

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061923\
 Data File : VN078289.D
 Acq On : 19 Jun 2023 19:26
 Operator : JC\MD
 Sample : 03320-08
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 WC-12

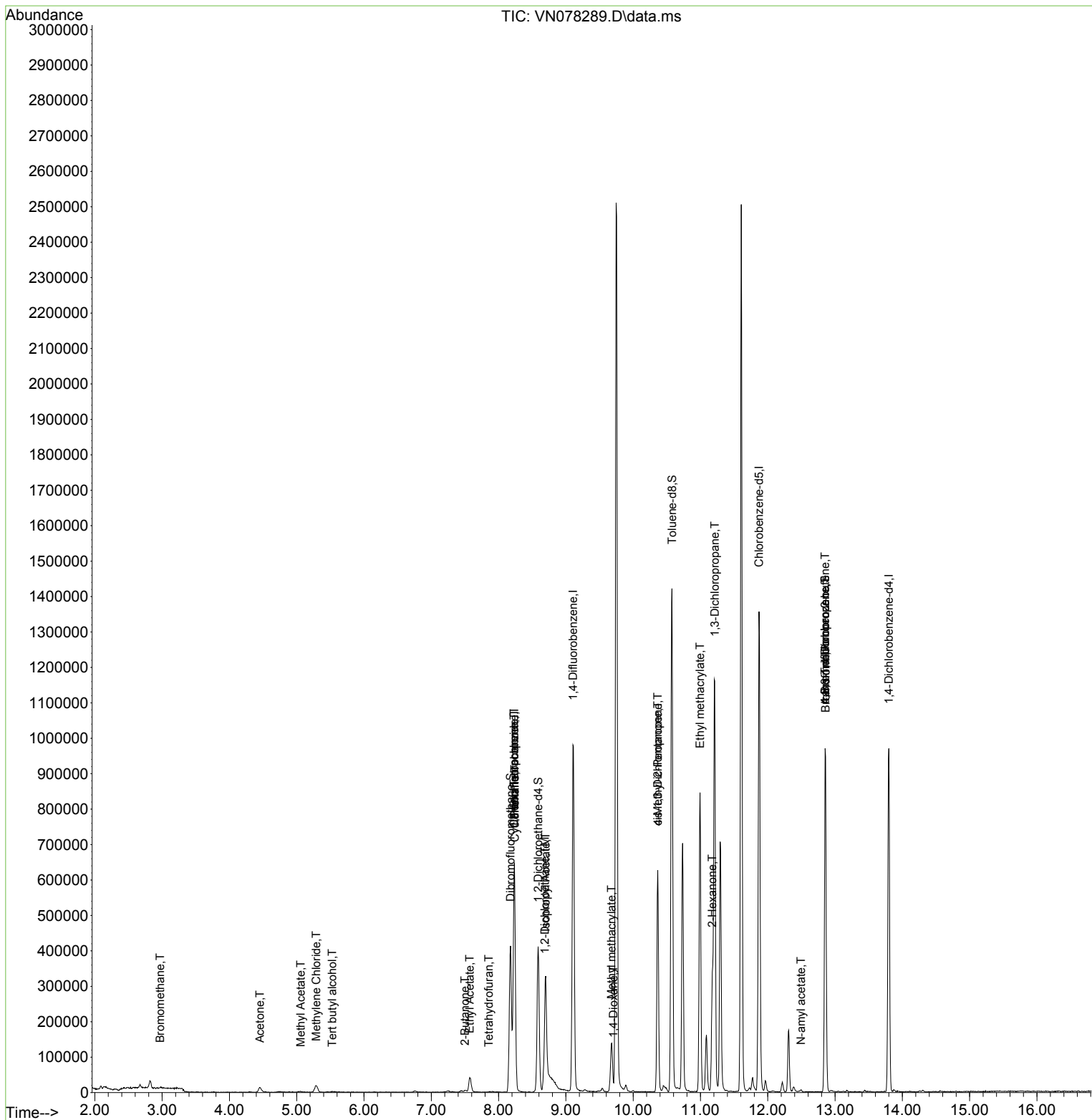
Quant Time: Jun 20 01:33:40 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060623W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jun 07 05:05:00 2023
 Response via : Initial Calibration

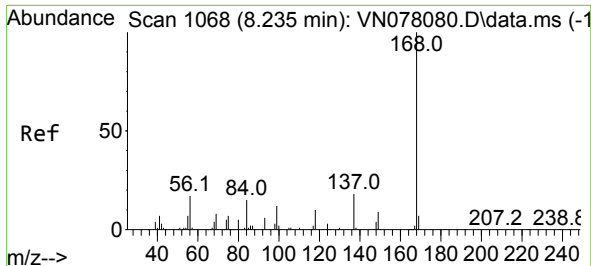
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Pentafluorobenzene	8.235	168	459771	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	867593	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.870	117	813327	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.800	152	269197	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.588	65	332164	54.185	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	= 108.380%	
35) Dibromofluoromethane	8.177	113	294530	53.691	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 107.380%	
50) Toluene-d8	10.576	98	1032653	48.830	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	= 97.660%	
62) 4-Bromofluorobenzene	12.853	95	345738	52.589	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	= 105.180%	
Target Compounds						
					Qvalue	
3) Chloromethane	2.377	50	1086	Below Cal	#	73
5) Bromomethane	2.971	94	1837	0.357	ug/l	83
11) Tert butyl alcohol	5.530	59	1168	1.380	ug/l #	87
16) Acetone	4.453	43	25975	14.721	ug/l	94
18) Methyl Acetate	5.059	43	4640	0.571	ug/l #	42
20) Methylene Chloride	5.288	84	15828	2.715	ug/l #	86
25) 2-Butanone	7.500	43	8029	2.959	ug/l #	86
29) Tetrahydrofuran	7.853	42	410	0.226	ug/l #	20
31) Cyclohexane	8.241	56	10674	1.357	ug/l #	62
36) 1,1-Dichloropropene	8.229	75	41260	5.244	ug/l #	47
37) Ethyl Acetate	7.571	43	63266	10.292	ug/l	96
38) Carbon Tetrachloride	8.229	117	50813	6.116	ug/l #	15
42) 1,2-Dichloroethane	8.688	62	2216	0.275	ug/l #	73
43) Isopropyl Acetate	8.700	43	413642	35.186	ug/l #	76
48) Methyl methacrylate	9.676	41	8506	1.724	ug/l #	31
49) 1,4-Dioxane	9.706	88	56	0.540	ug/l #	1
51) 4-Methyl-2-Pentanone	10.365	43	219419	35.445	ug/l #	41
54) cis-1,3-Dichloropropene	10.365	75	114374	12.424	ug/l #	67
56) Ethyl methacrylate	10.994	69	3644	0.446	ug/l #	1
57) 1,3-Dichloropropane	11.212	76	12899	1.362	ug/l #	43
59) 2-Hexanone	11.176	43	253492	58.810	ug/l #	19
71) Bromoform	12.859	173	3248	0.786	ug/l #	1
74) N-amyl acetate	12.494	43	2194	0.262	ug/l #	46
75) 1,1,2,2-Tetrachloroethane	12.964	83	241	Below Cal	#	51
76) 1,2,3-Trichloropropane	12.853	75	184302	28.960	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.853	75	184302	88.976	ug/l #	15
94) Hexachlorobutadiene	15.500	225	109	Below Cal	#	45

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

Quant Time: Jun 20 01:33:40 2023
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Quant Title : SW846 8260
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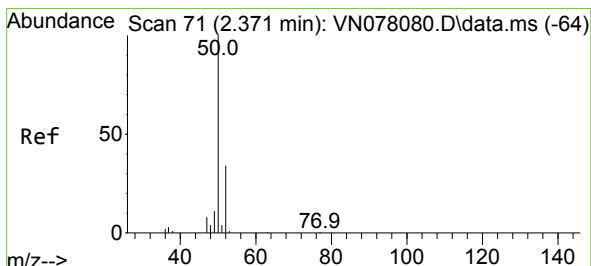
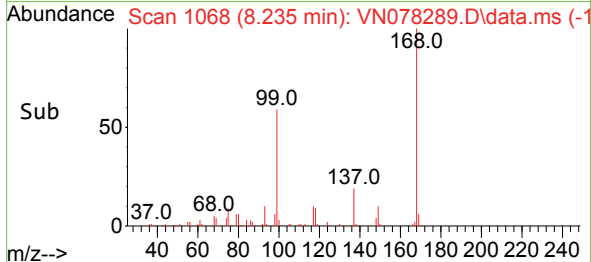
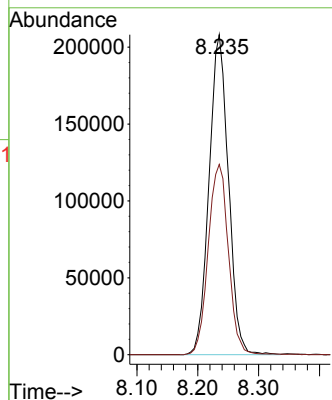
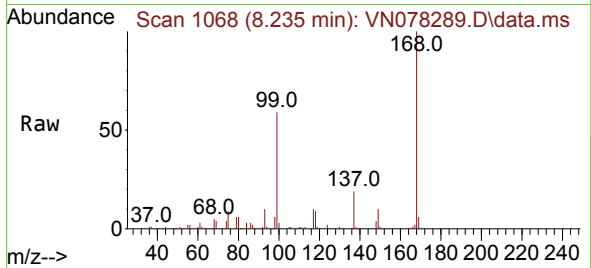




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.235 min Scan# 10
Delta R.T. 0.000 min
Lab File: VN078289.D
Acq: 19 Jun 2023 19:26

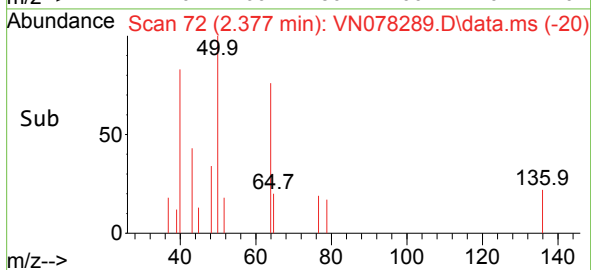
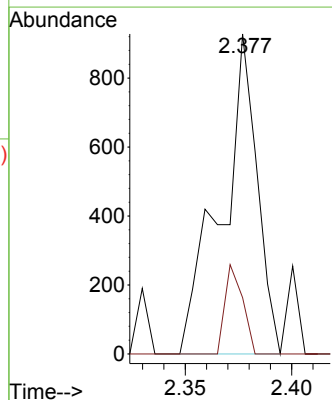
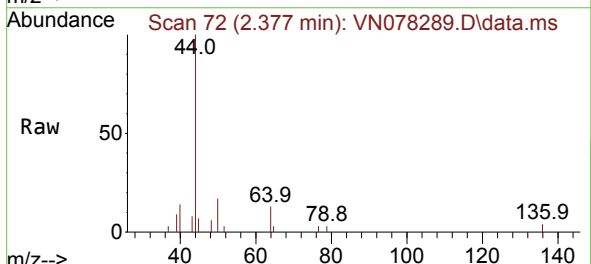
Instrument :
MSVOA_N
ClientSampleId :
WC-12

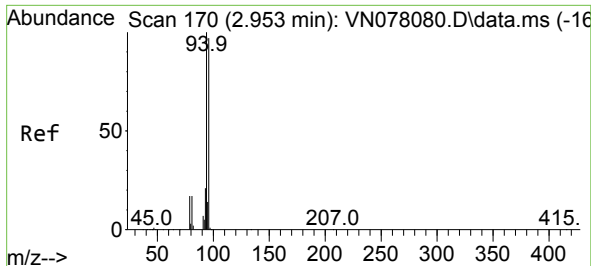
Tgt Ion:168 Resp: 459771
Ion Ratio Lower Upper
168 100
99 59.4 53.0 79.6



#3
Chloromethane
Concen: Below Cal
RT: 2.377 min Scan# 72
Delta R.T. 0.006 min
Lab File: VN078289.D
Acq: 19 Jun 2023 19:26

Tgt Ion: 50 Resp: 1086
Ion Ratio Lower Upper
50 100
52 17.6 26.5 39.7#

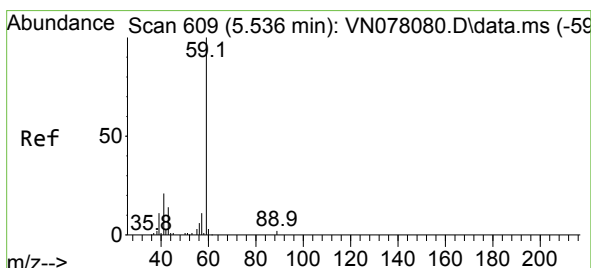
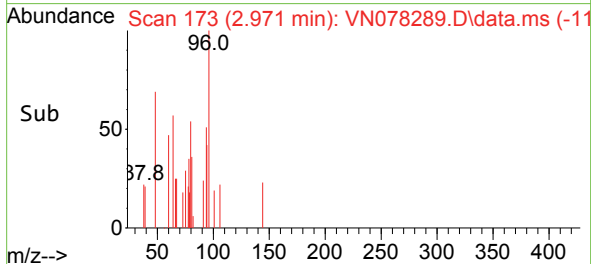
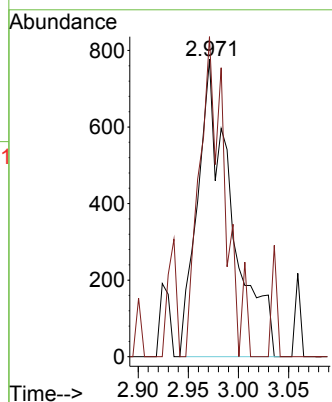
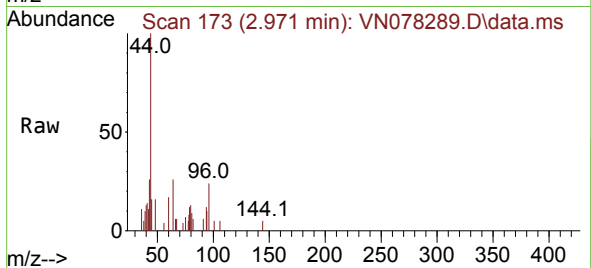




#5
Bromomethane
Concen: 0.357 ug/l
RT: 2.971 min Scan# 11
Delta R.T. 0.018 min
Lab File: VN078289.D
Acq: 19 Jun 2023 19:26

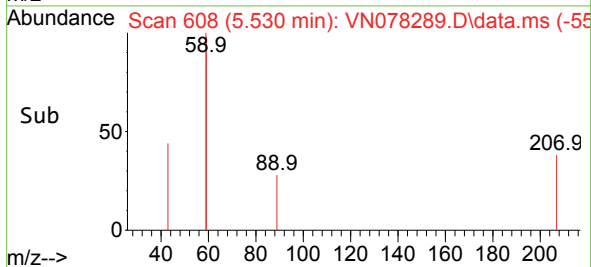
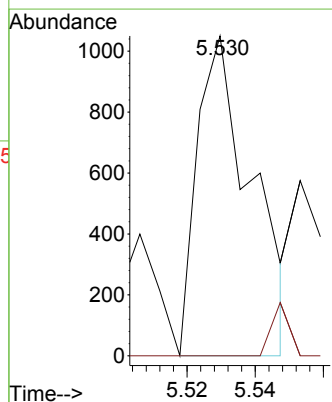
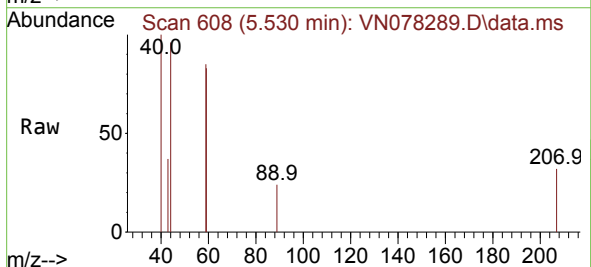
Instrument :
MSVOA_N
ClientSampleId :
WC-12

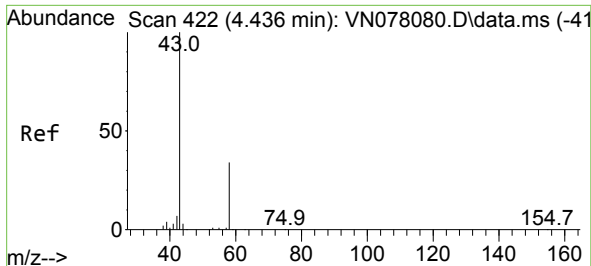
Tgt Ion: 94 Resp: 1837
Ion Ratio Lower Upper
94 100
96 107.6 73.1 109.7



#11
Tert butyl alcohol
Concen: 1.380 ug/l
RT: 5.530 min Scan# 608
Delta R.T. -0.006 min
Lab File: VN078289.D
Acq: 19 Jun 2023 19:26

Tgt Ion: 59 Resp: 1168
Ion Ratio Lower Upper
59 100
57 5.3 8.2 12.4#

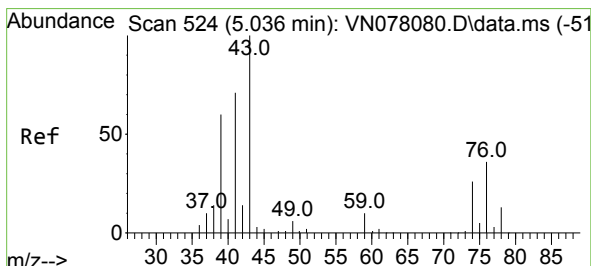
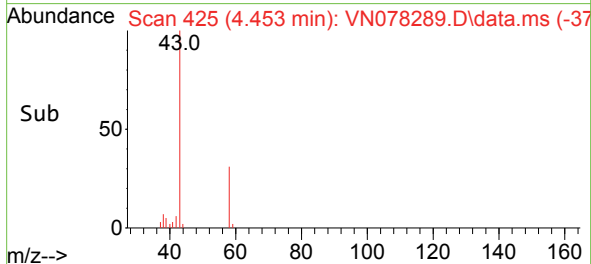
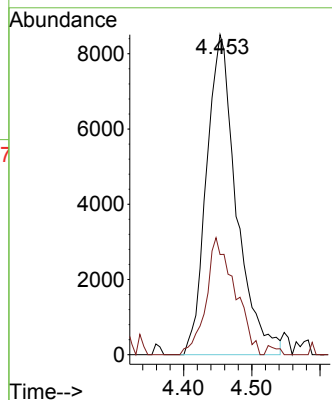
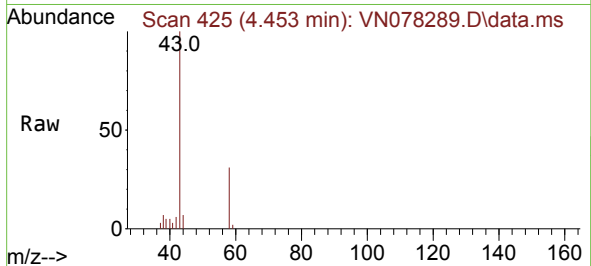




#16
Acetone
Concen: 14.721 ug/l
RT: 4.453 min Scan# 41
Delta R.T. 0.018 min
Lab File: VN078289.D
Acq: 19 Jun 2023 19:26

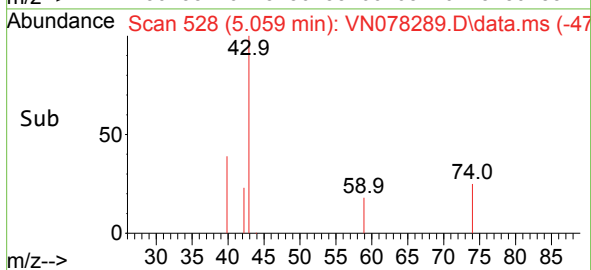
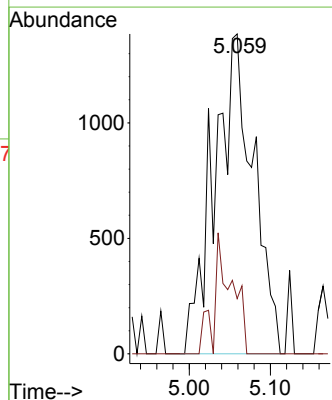
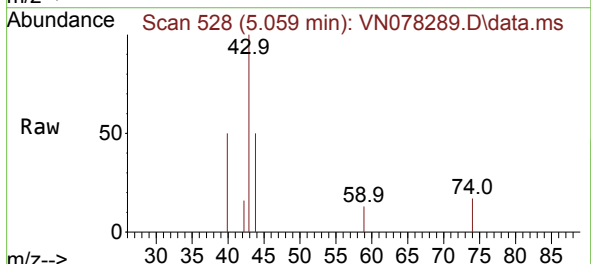
Instrument :
MSVOA_N
ClientSampleId :
WC-12

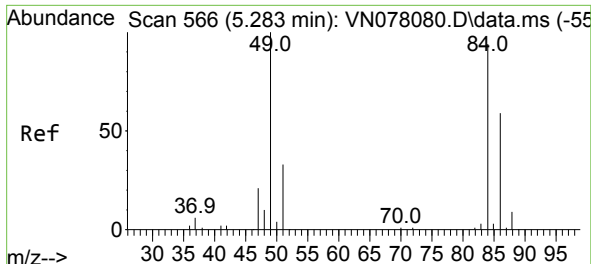
Tgt Ion: 43 Resp: 25975
Ion Ratio Lower Upper
43 100
58 31.3 28.0 42.0



#18
Methyl Acetate
Concen: 0.571 ug/l
RT: 5.059 min Scan# 528
Delta R.T. 0.023 min
Lab File: VN078289.D
Acq: 19 Jun 2023 19:26

Tgt Ion: 43 Resp: 4640
Ion Ratio Lower Upper
43 100
74 0.0 26.2 39.4#

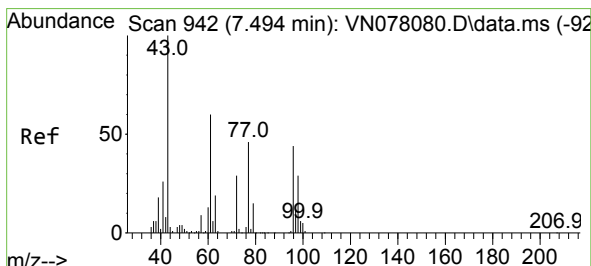
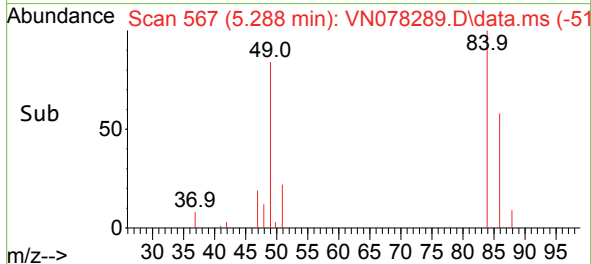
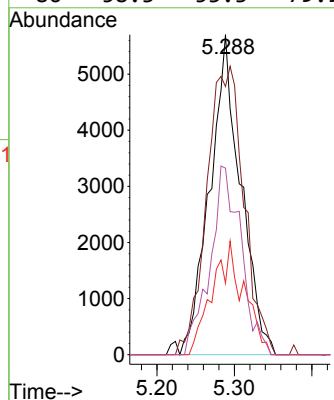
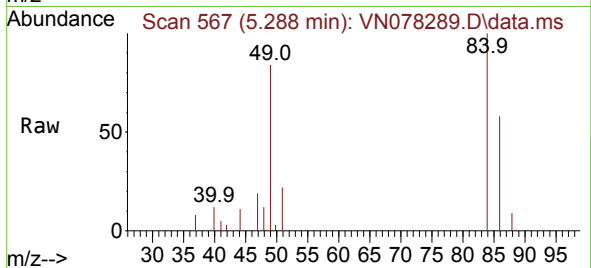




#20
Methylene Chloride
Concen: 2.715 ug/l
RT: 5.288 min Scan# 51
Delta R.T. 0.006 min
Lab File: VN078289.D
Acq: 19 Jun 2023 19:26

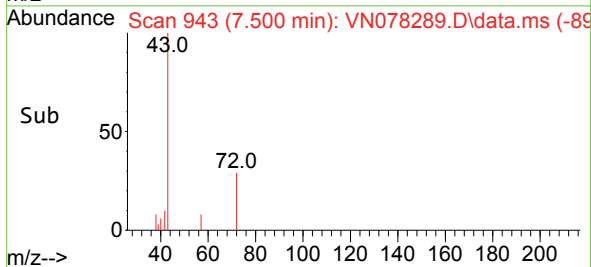
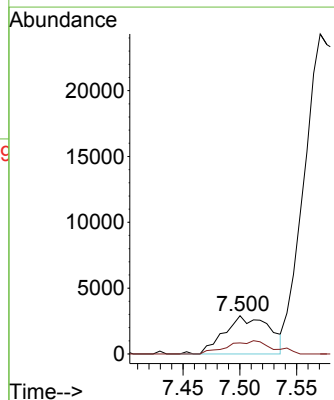
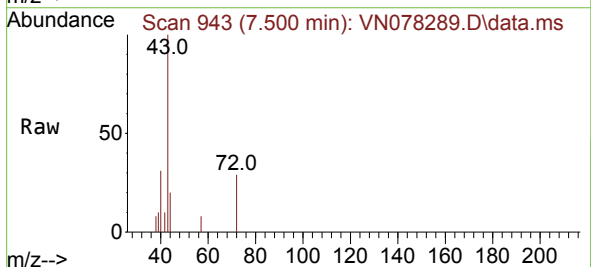
Instrument :
MSVOA_N
ClientSampleId :
WC-12

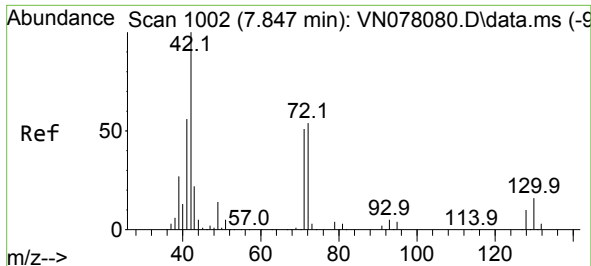
Tgt Ion: 84	Resp: 15828
Ion Ratio	Lower Upper
84 100	
49 83.8	79.7 119.5
51 22.4	25.2 37.8#
86 58.3	53.3 79.9



#25
2-Butanone
Concen: 2.959 ug/l
RT: 7.500 min Scan# 943
Delta R.T. 0.006 min
Lab File: VN078289.D
Acq: 19 Jun 2023 19:26

Tgt Ion: 43	Resp: 8029		
Ion Ratio	Lower	Upper	
43 100			
72 29.1	30.2	45.2#	

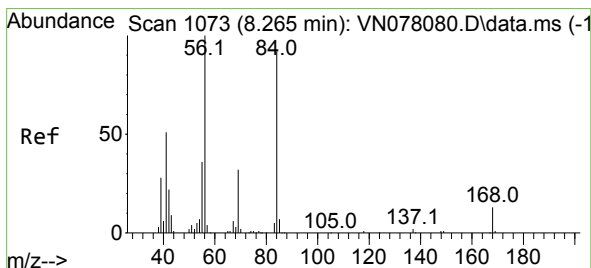
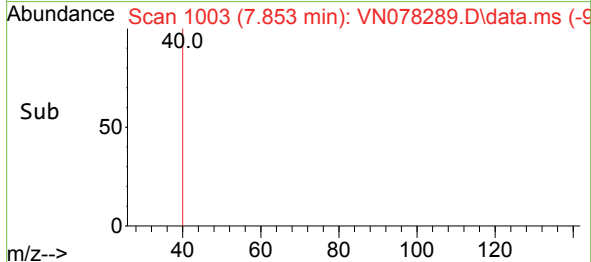
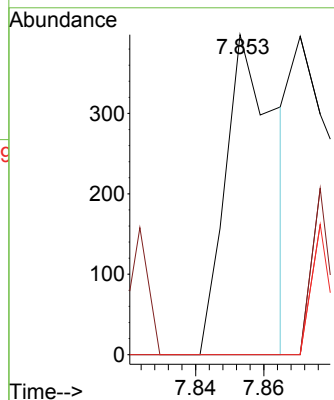
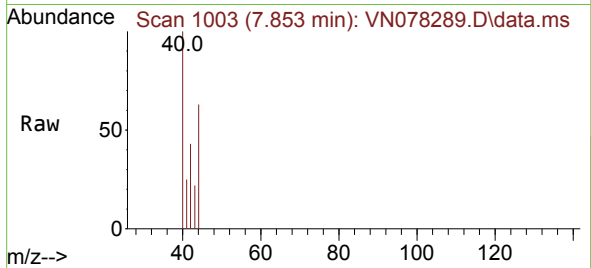




#29
Tetrahydrofuran
Concen: 0.226 ug/l
RT: 7.853 min Scan# 1069
Delta R.T. 0.006 min
Lab File: VN078289.D
Acq: 19 Jun 2023 19:26

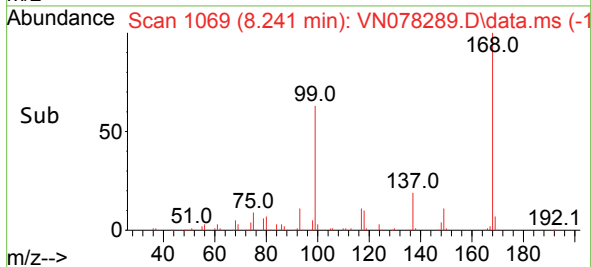
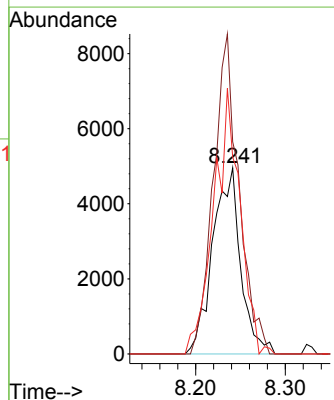
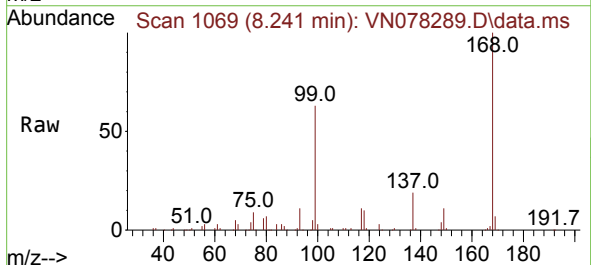
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ClientSampleId :
WC-12

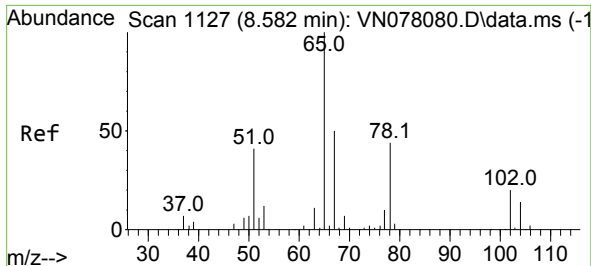
Tgt Ion: 42 Resp: 410
Ion Ratio Lower Upper
42 100
72 0.0 49.8 74.6#
71 0.0 47.4 71.2#



#31
Cyclohexane
Concen: 1.357 ug/l
RT: 8.241 min Scan# 1069
Delta R.T. -0.024 min
Lab File: VN078289.D
Acq: 19 Jun 2023 19:26

Tgt Ion: 56 Resp: 10674
Ion Ratio Lower Upper
56 100
69 114.0 26.8 40.2#
84 105.7 81.8 122.6





#33

1,2-Dichloroethane-d4

Concen: 54.185 ug/l

RT: 8.588 min Scan# 1127

Delta R.T. 0.006 min

Lab File: VN078289.D

Acq: 19 Jun 2023 19:26

Instrument :

MSVOA_N

ClientSampleId :

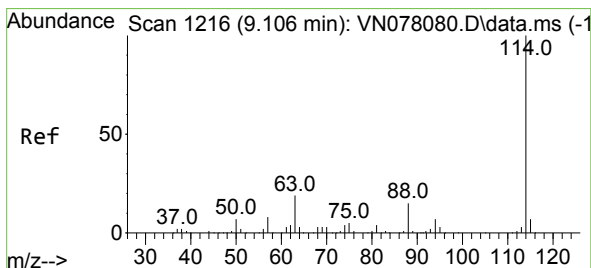
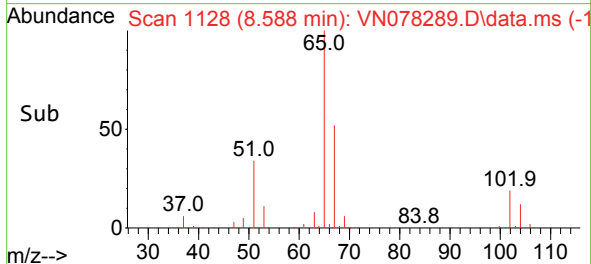
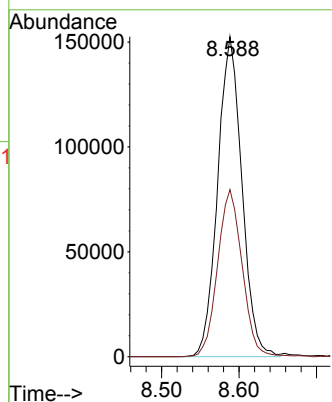
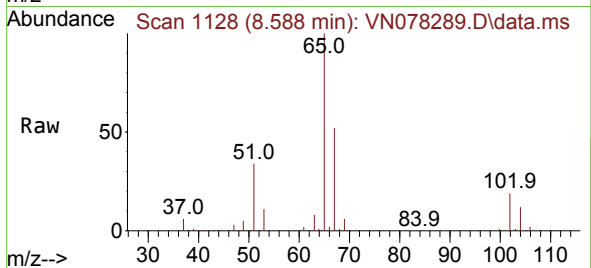
WC-12

Tgt Ion: 65 Resp: 332164

Ion Ratio Lower Upper

65 100

67 53.0 0.0 106.6



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.106 min Scan# 1216

Delta R.T. -0.000 min

Lab File: VN078289.D

Acq: 19 Jun 2023 19:26

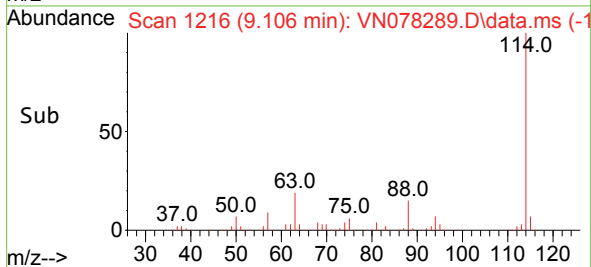
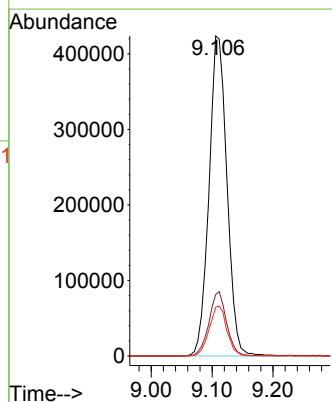
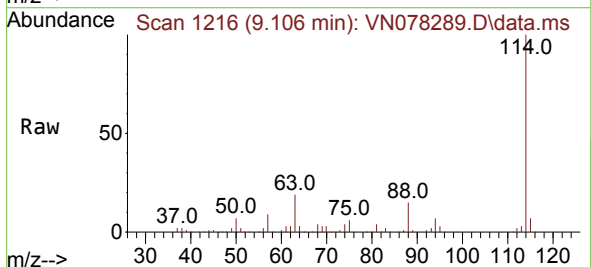
Tgt Ion: 114 Resp: 867593

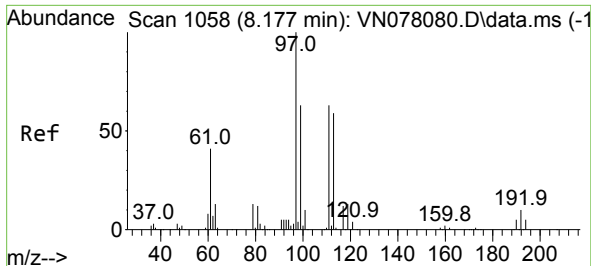
Ion Ratio Lower Upper

114 100

63 19.2 0.0 36.4

88 15.2 0.0 30.6

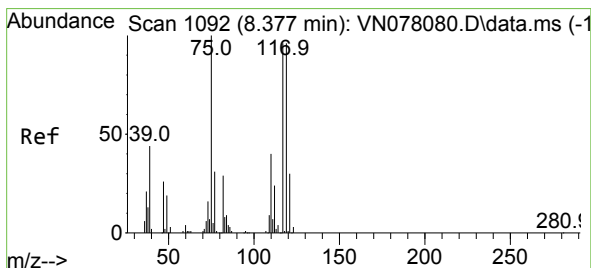
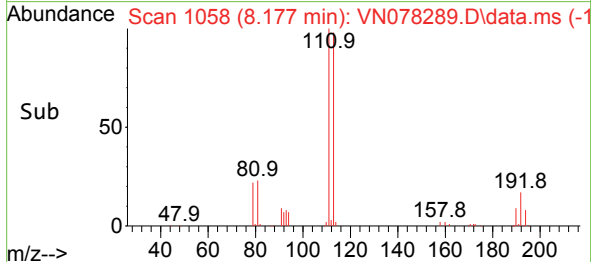
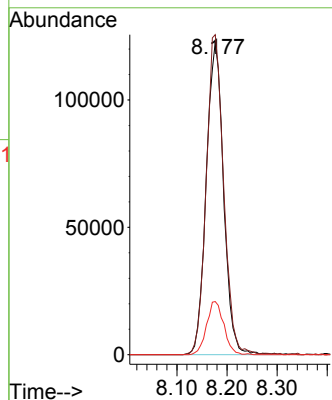
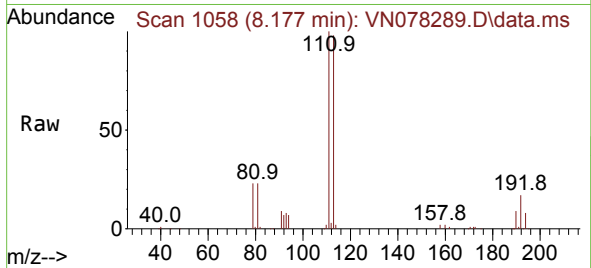




#35
Dibromofluoromethane
Concen: 53.691 ug/l
RT: 8.177 min Scan# 1058
Delta R.T. -0.000 min
Lab File: VN078289.D
Acq: 19 Jun 2023 19:26

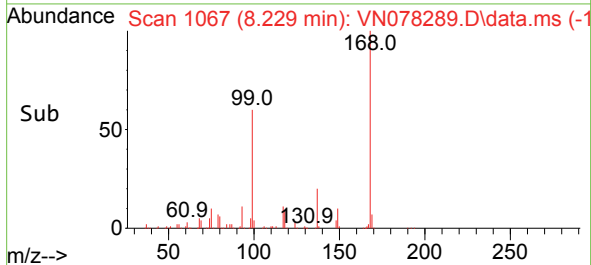
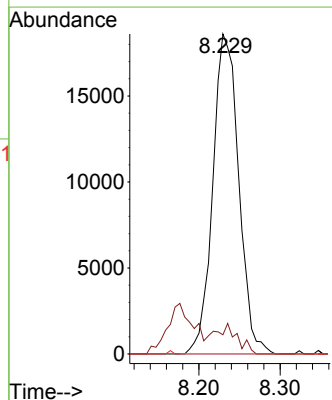
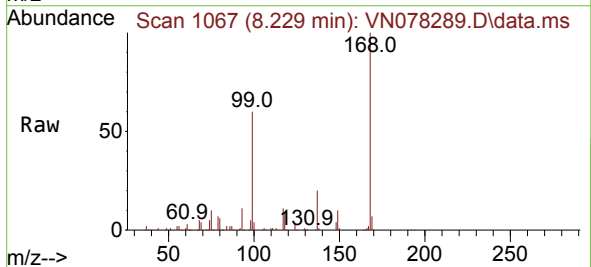
Instrument :
MSVOA_N
ClientSampleId :
WC-12

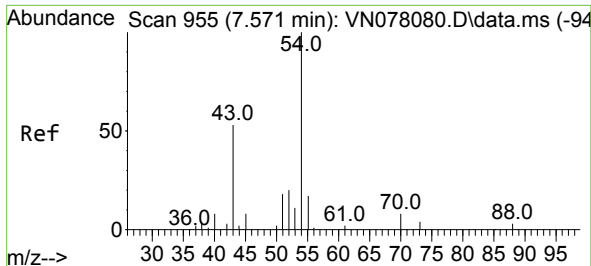
Tgt Ion:113 Resp: 294530
Ion Ratio Lower Upper
113 100
111 102.9 82.6 123.8
192 16.9 12.7 19.1



#36
1,1-Dichloropropene
Concen: 5.244 ug/l
RT: 8.229 min Scan# 1067
Delta R.T. -0.147 min
Lab File: VN078289.D
Acq: 19 Jun 2023 19:26

Tgt Ion: 75 Resp: 41260
Ion Ratio Lower Upper
75 100
110 7.7 19.1 57.3#
77 0.0 25.0 37.4#

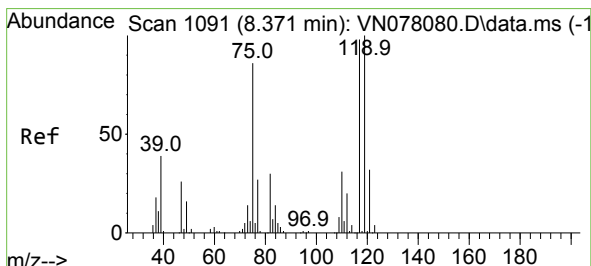
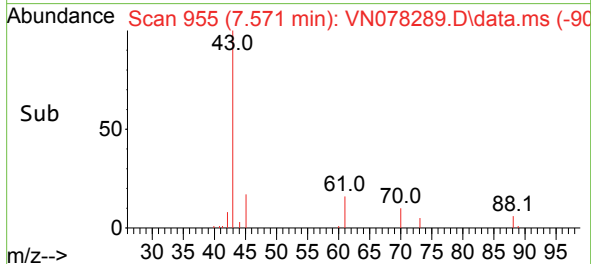
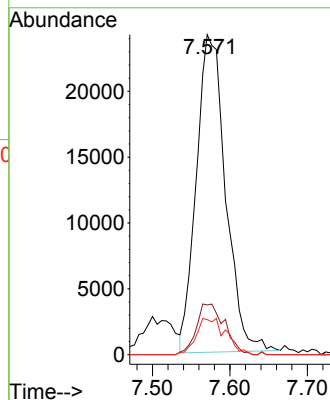
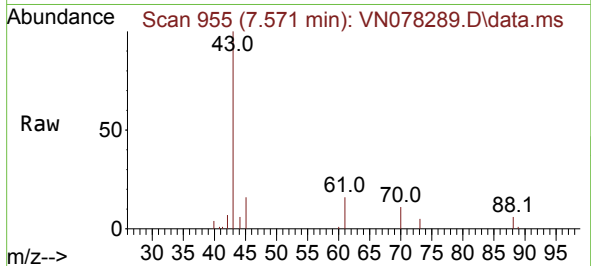




#37
Ethyl Acetate
Concen: 10.292 ug/l
RT: 7.571 min Scan# 91
Delta R.T. -0.000 min
Lab File: VN078289.D
Acq: 19 Jun 2023 19:26

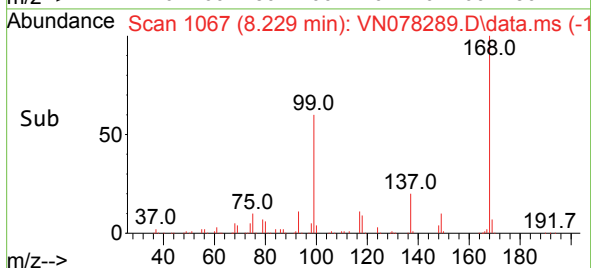
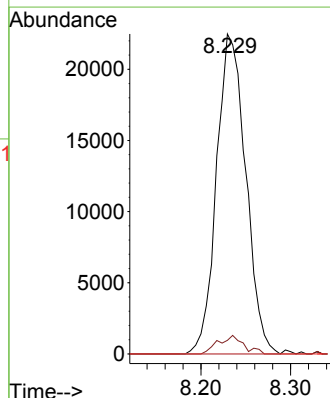
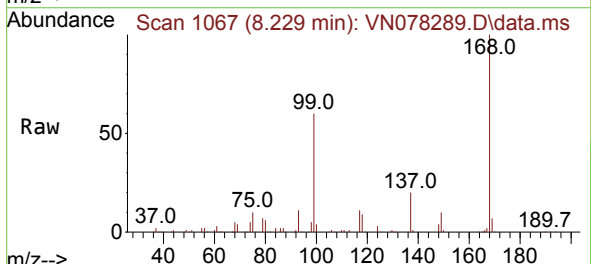
Instrument :
MSVOA_N
ClientSampleId :
WC-12

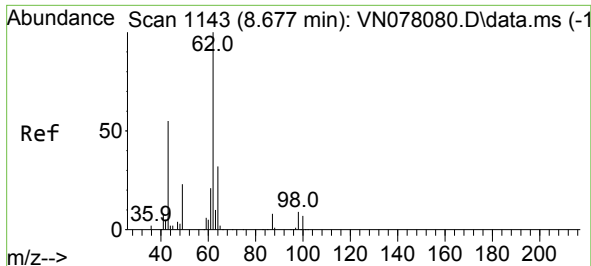
Tgt Ion:	43	Resp:	63266
Ion	Ratio	Lower	Upper
43	100		
61	15.5	13.2	19.8
70	11.6	11.3	16.9



#38
Carbon Tetrachloride
Concen: 6.116 ug/l
RT: 8.229 min Scan# 1067
Delta R.T. -0.141 min
Lab File: VN078289.D
Acq: 19 Jun 2023 19:26

Tgt Ion:	117	Resp:	50813
Ion	Ratio	Lower	Upper
117	100		
119	4.2	77.3	115.9#
121	0.0	23.3	34.9#





#42

1,2-Dichloroethane

Concen: 0.275 ug/l

RT: 8.688 min Scan# 1145

Delta R.T. 0.012 min

Lab File: VN078289.D

Acq: 19 Jun 2023 19:26

Instrument :

MSVOA_N

ClientSampleId :

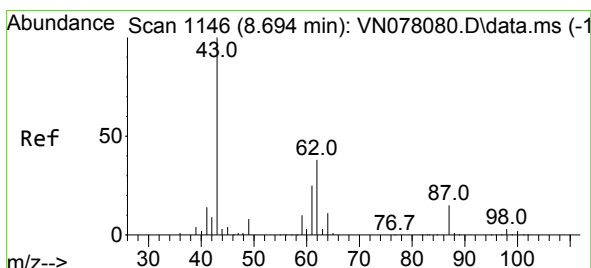
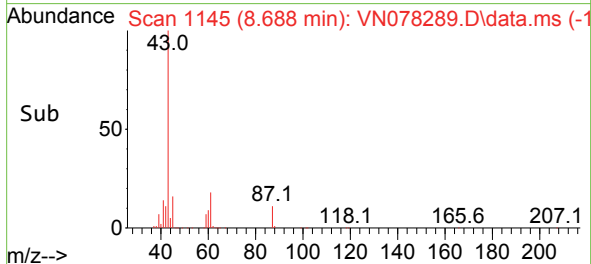
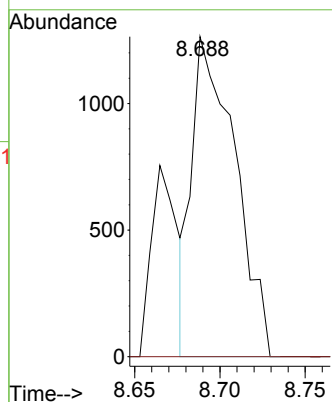
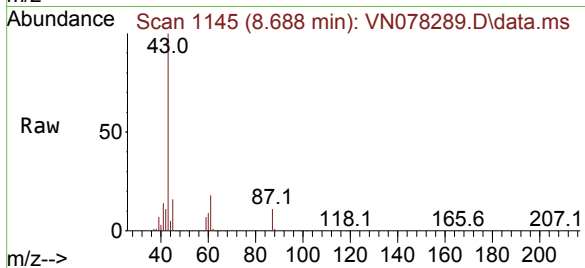
WC-12

Tgt Ion: 62 Resp: 2216

Ion Ratio Lower Upper

62 100

98 0.0 0.0 19.8



#43

Isopropyl Acetate

Concen: 35.186 ug/l

RT: 8.700 min Scan# 1147

Delta R.T. 0.006 min

Lab File: VN078289.D

Acq: 19 Jun 2023 19:26

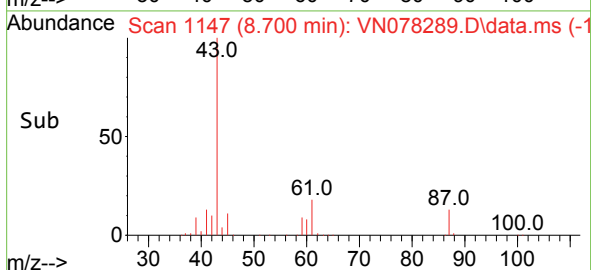
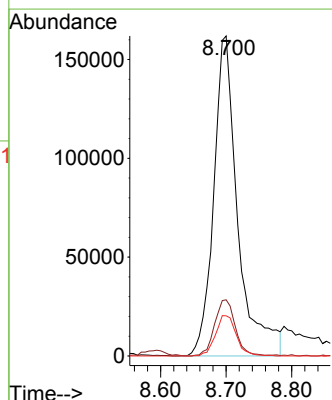
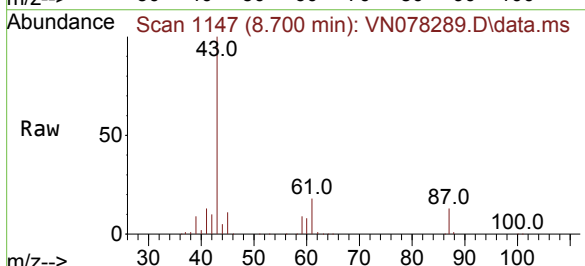
Tgt Ion: 43 Resp: 413642

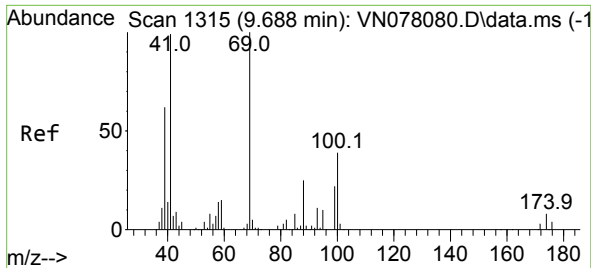
Ion Ratio Lower Upper

43 100

61 15.0 24.7 37.1#

87 10.9 14.6 21.8#

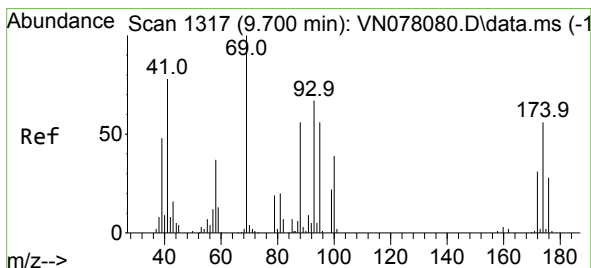
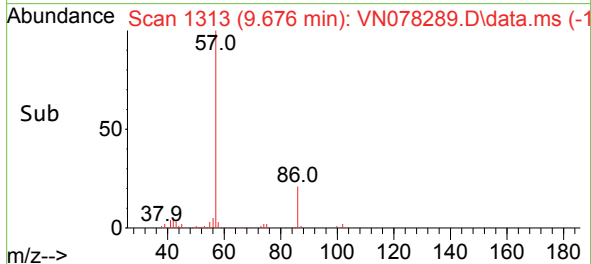
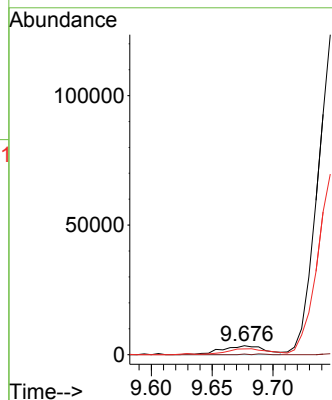
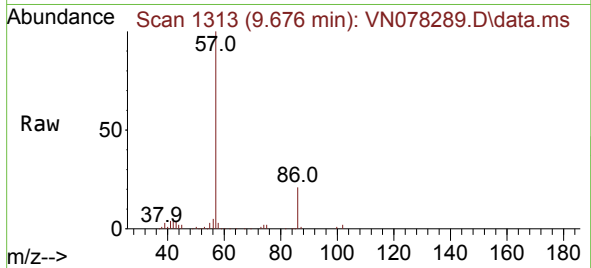




#48
Methyl methacrylate
Concen: 1.724 ug/l
RT: 9.676 min Scan# 1313
Delta R.T. -0.012 min
Lab File: VN078289.D
Acq: 19 Jun 2023 19:26

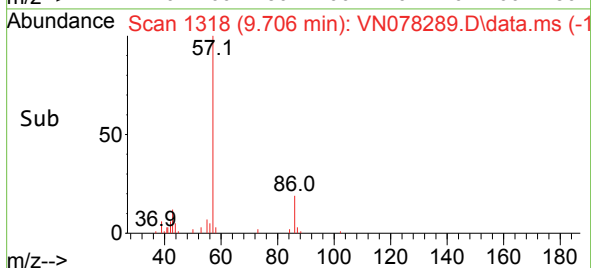
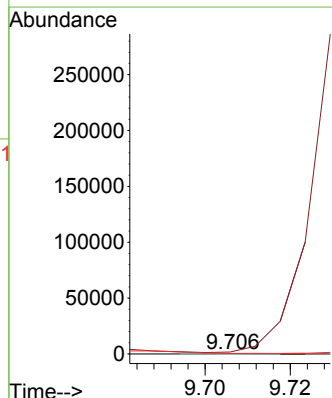
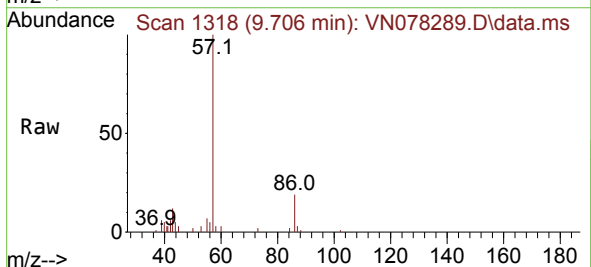
Instrument :
MSVOA_N
ClientSampleId :
WC-12

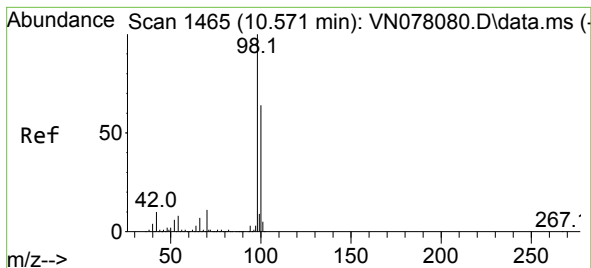
Tgt Ion: 41 Resp: 8506
Ion Ratio Lower Upper
41 100
69 3.0 90.4 135.6#
39 57.4 54.6 81.8



#49
1,4-Dioxane
Concen: 0.540 ug/l
RT: 9.706 min Scan# 1318
Delta R.T. 0.006 min
Lab File: VN078289.D
Acq: 19 Jun 2023 19:26

Tgt Ion: 88 Resp: 56
Ion Ratio Lower Upper
88 100
43 0.0 17.0 25.6#
58 12121.4 47.0 70.4#





#50

Toluene-d8

Concen: 48.830 ug/l

RT: 10.576 min Scan# 1465

Delta R.T. 0.006 min

Lab File: VN078289.D

Acq: 19 Jun 2023 19:26

Instrument :

MSVOA_N

ClientSampleId :

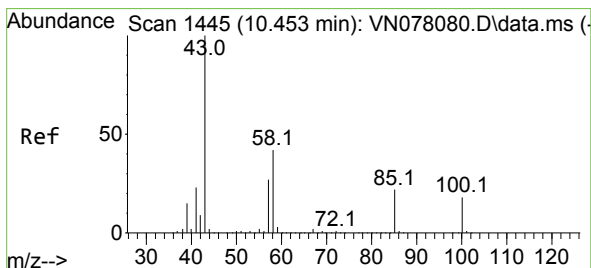
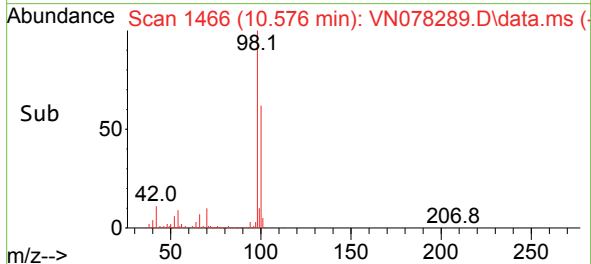
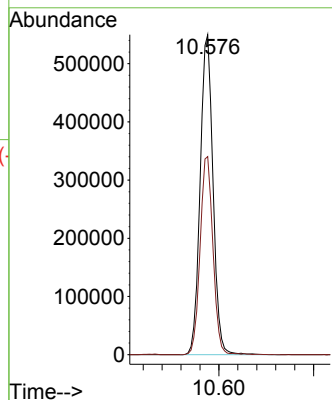
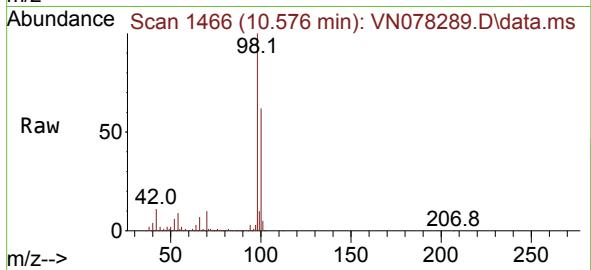
WC-12

Tgt Ion: 98 Resp: 1032653

Ion Ratio Lower Upper

98 100

100 62.1 52.0 78.0



#51

4-Methyl-2-Pentanone

Concen: 35.445 ug/l

RT: 10.365 min Scan# 1430

Delta R.T. -0.088 min

Lab File: VN078289.D

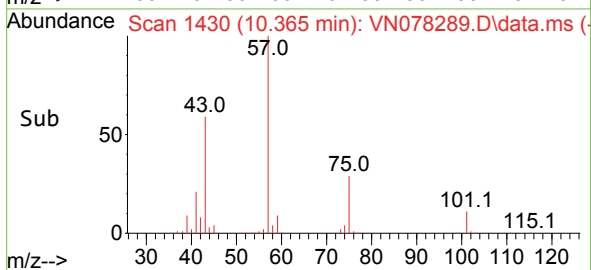
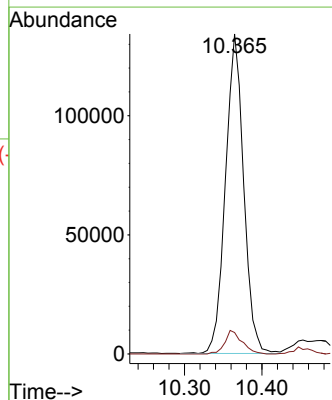
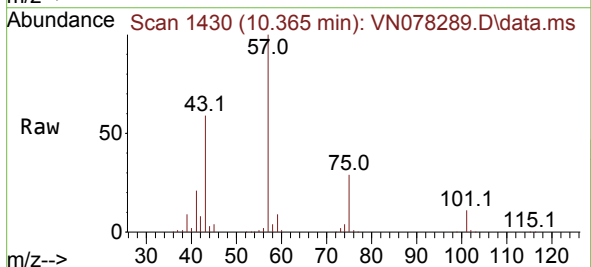
Acq: 19 Jun 2023 19:26

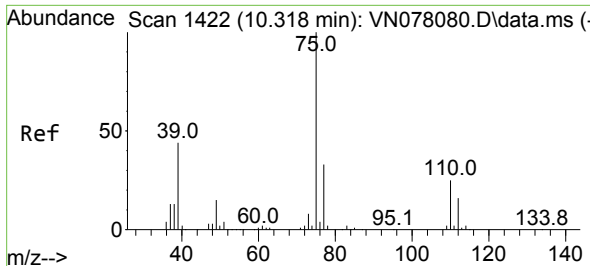
Tgt Ion: 43 Resp: 219419

Ion Ratio Lower Upper

43 100

58 6.9 36.6 54.8#

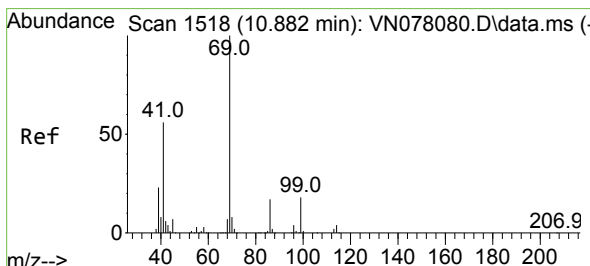
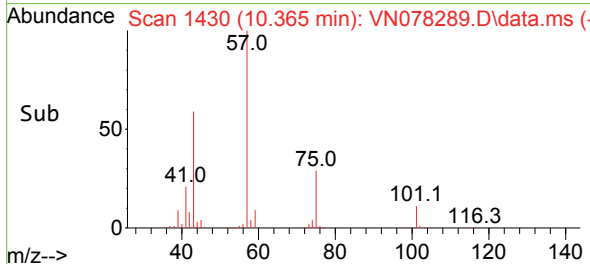
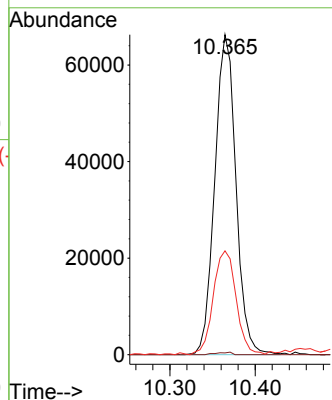
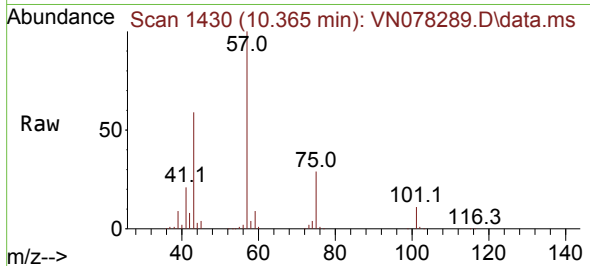




#54
 cis-1,3-Dichloropropene
 Concen: 12.424 ug/l
 RT: 10.365 min Scan# 14
 Delta R.T. 0.047 min
 Lab File: VN078289.D
 Acq: 19 Jun 2023 19:26

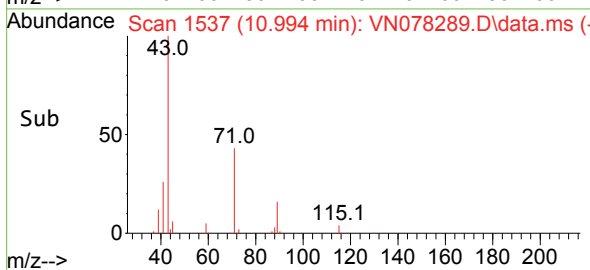
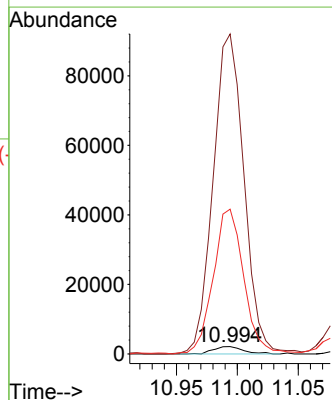
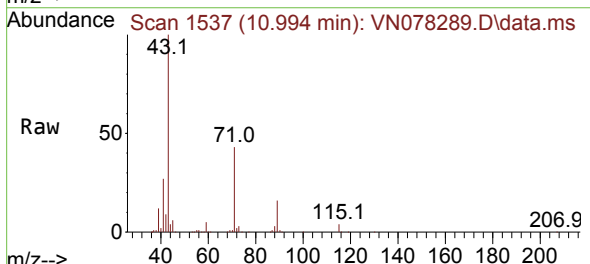
Instrument :
 MSVOA_N
 ClientSampleId :
 WC-12

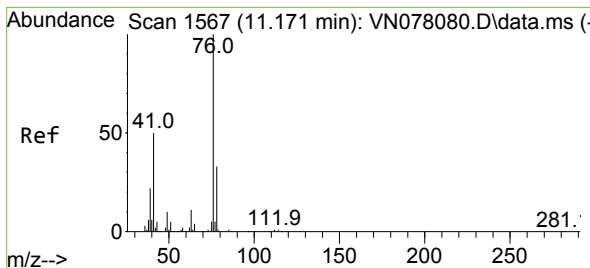
Tgt Ion: 75 Resp: 114374
 Ion Ratio Lower Upper
 75 100
 77 0.5 26.1 39.1#
 39 31.8 31.6 47.4



#56
 Ethyl methacrylate
 Concen: 0.446 ug/l
 RT: 10.994 min Scan# 1537
 Delta R.T. 0.112 min
 Lab File: VN078289.D
 Acq: 19 Jun 2023 19:26

Tgt Ion: 69 Resp: 3644
 Ion Ratio Lower Upper
 69 100
 41 4457.7 39.6 59.4#
 39 1998.2 28.6 43.0#

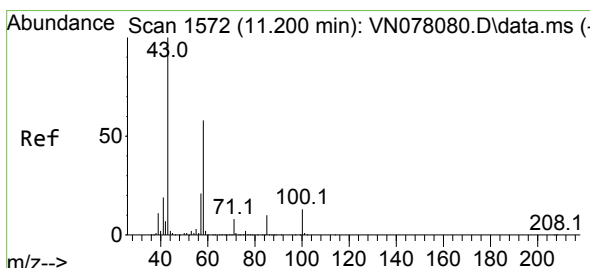
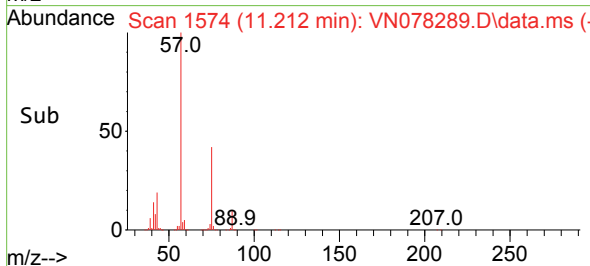
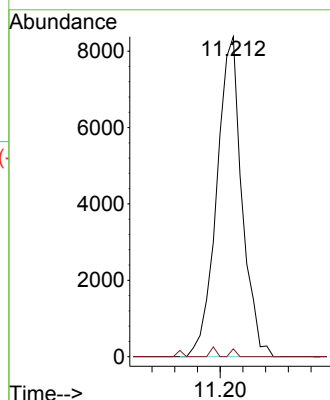
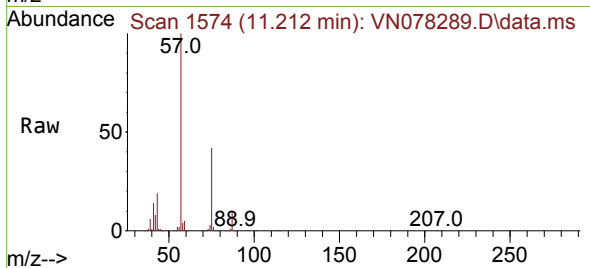




#57
 1,3-Dichloropropane
 Concen: 1.362 ug/l
 RT: 11.212 min Scan# 11
 Delta R.T. 0.041 min
 Lab File: VN078289.D
 Acq: 19 Jun 2023 19:26

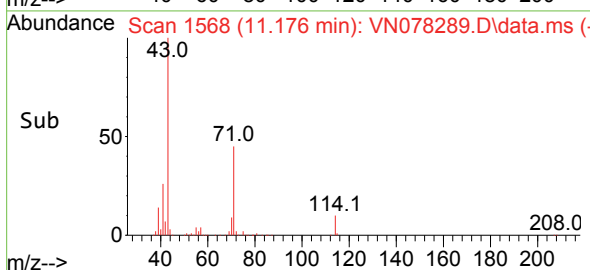
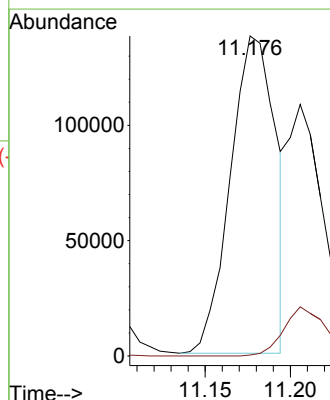
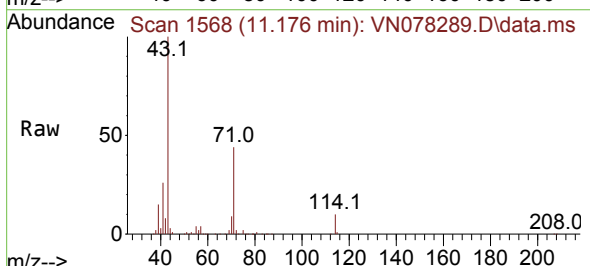
Instrument :
 MSVOA_N
 ClientSampleId :
 WC-12

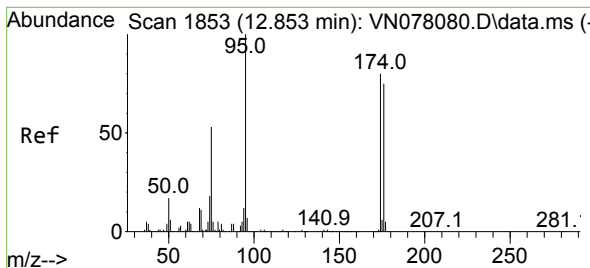
Tgt Ion: 76 Resp: 12899
 Ion Ratio Lower Upper
 76 100
 78 0.6 26.1 39.1#



#59
 2-Hexanone
 Concen: 58.810 ug/l
 RT: 11.176 min Scan# 1568
 Delta R.T. -0.024 min
 Lab File: VN078289.D
 Acq: 19 Jun 2023 19:26

Tgt Ion: 43 Resp: 253492
 Ion Ratio Lower Upper
 43 100
 58 0.0 31.7 95.1#

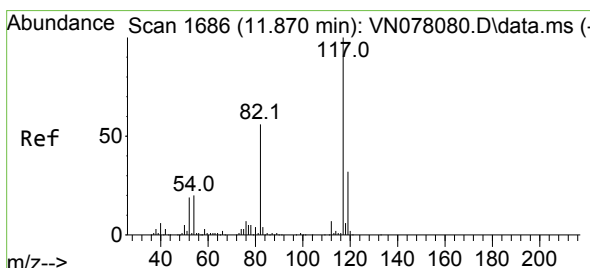
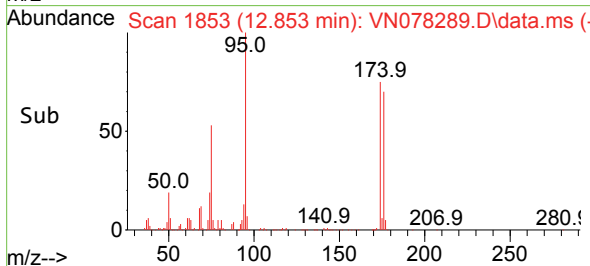
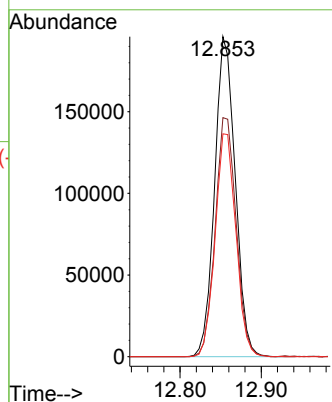
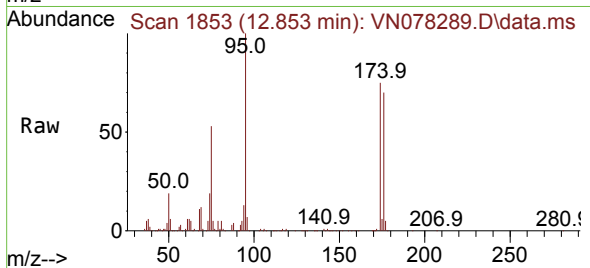




#62
4-Bromofluorobenzene
Concen: 52.589 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. -0.000 min
Lab File: VN078289.D
Acq: 19 Jun 2023 19:26

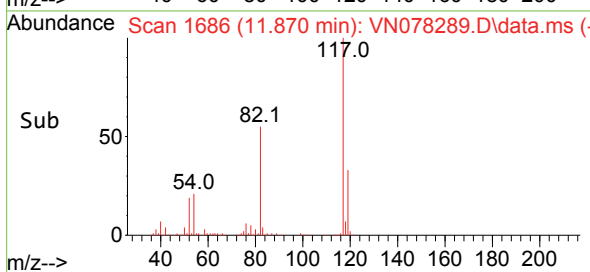
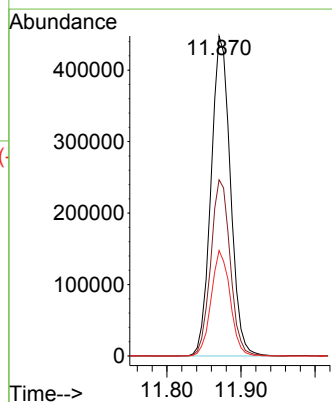
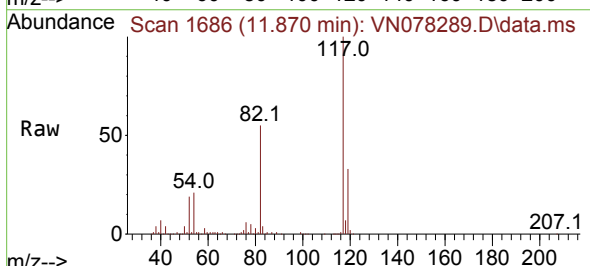
Instrument :
MSVOA_N
ClientSampleId :
WC-12

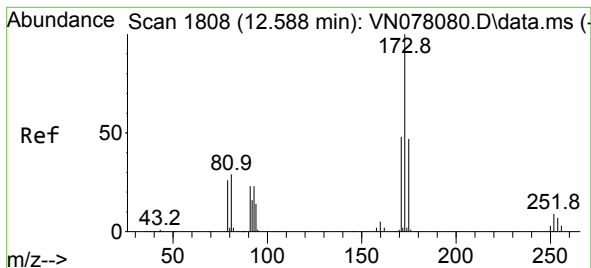
Tgt Ion: 95 Resp: 345738
Ion Ratio Lower Upper
95 100
174 76.3 0.0 143.8
176 70.2 0.0 135.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.870 min Scan# 1686
Delta R.T. -0.000 min
Lab File: VN078289.D
Acq: 19 Jun 2023 19:26

Tgt Ion: 117 Resp: 813327
Ion Ratio Lower Upper
117 100
82 55.0 44.0 66.0
119 33.0 25.6 38.4





#71

Bromoform

Concen: 0.786 ug/l

RT: 12.859 min Scan# 1854

Delta R.T. 0.271 min

Lab File: VN078289.D

Acq: 19 Jun 2023 19:26

Instrument :

MSVOA_N

ClientSampleId :

WC-12

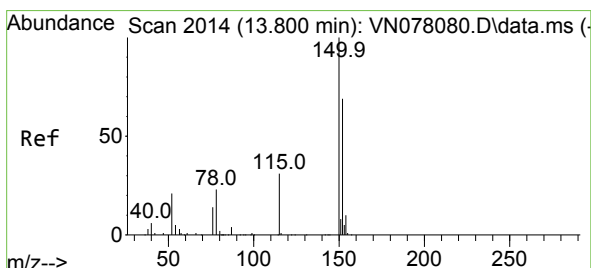
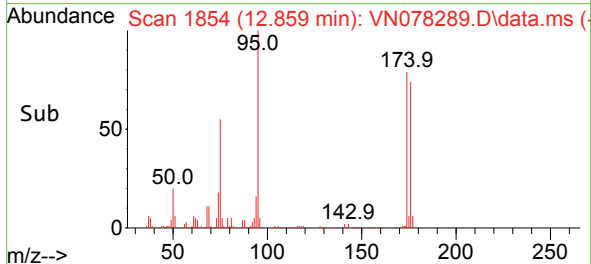
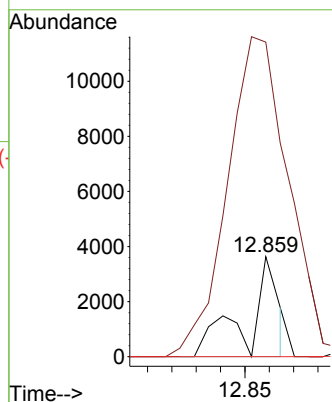
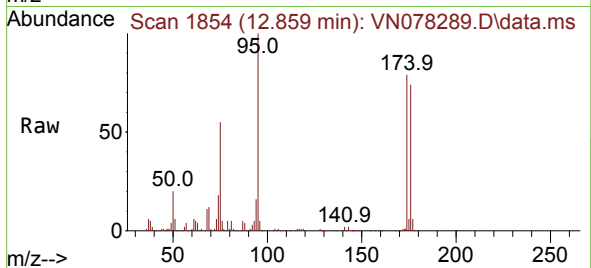
Tgt Ion:173 Resp: 3248

Ion Ratio Lower Upper

173 100

175 523.4 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# 2014

Delta R.T. -0.000 min

Lab File: VN078289.D

Acq: 19 Jun 2023 19:26

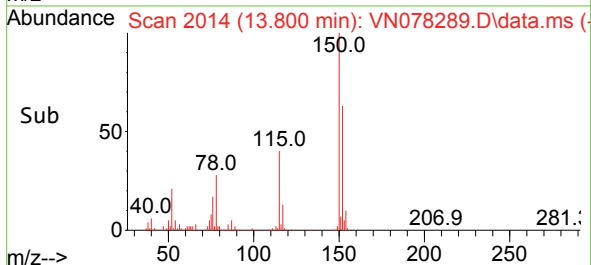
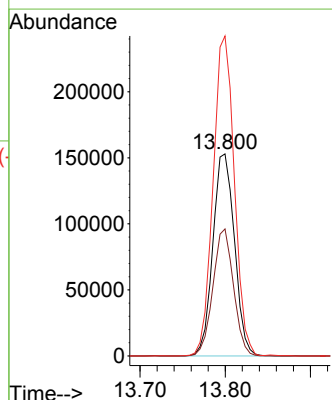
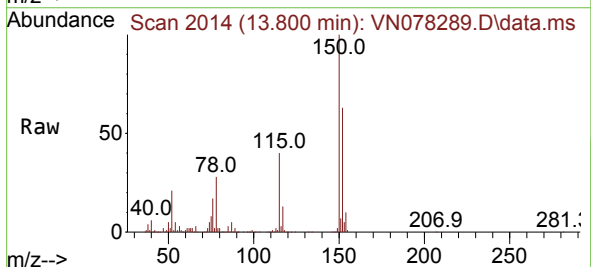
Tgt Ion:152 Resp: 269197

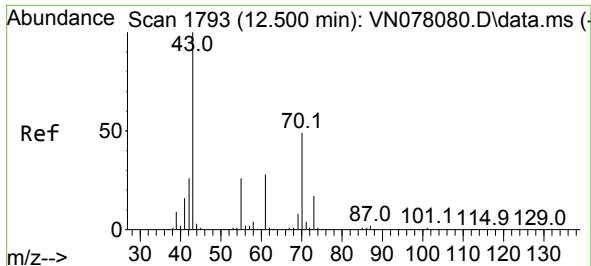
Ion Ratio Lower Upper

152 100

115 60.0 32.3 96.8

150 155.4 0.0 355.8

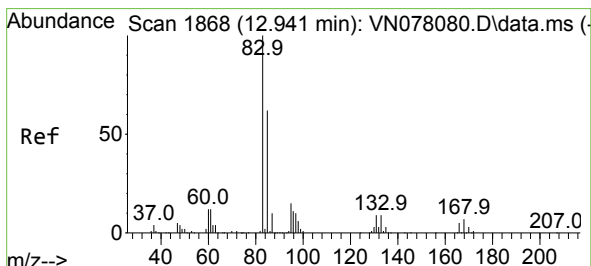
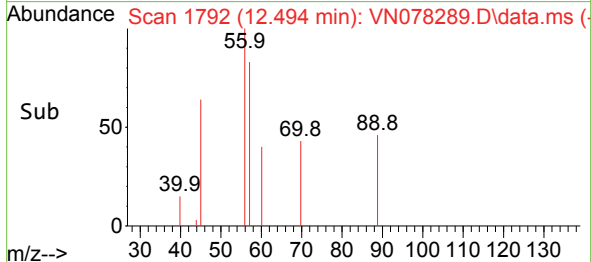
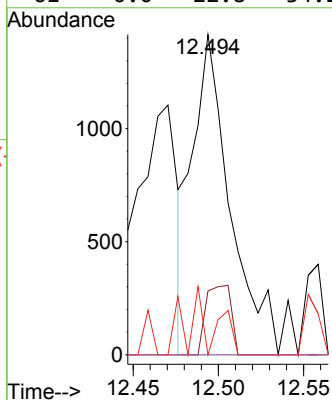
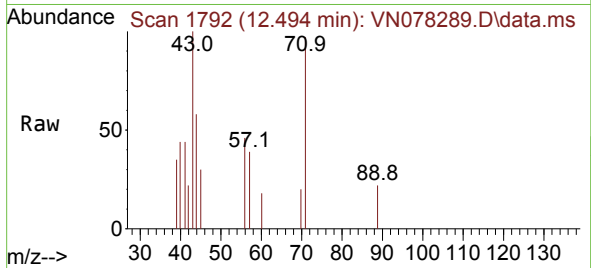




#74
N-amy1 acetate
Concen: 0.262 ug/l
RT: 12.494 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN078289.D
Acq: 19 Jun 2023 19:26

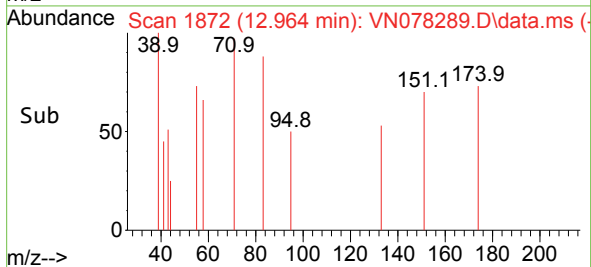
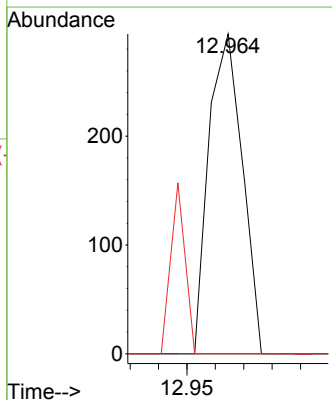
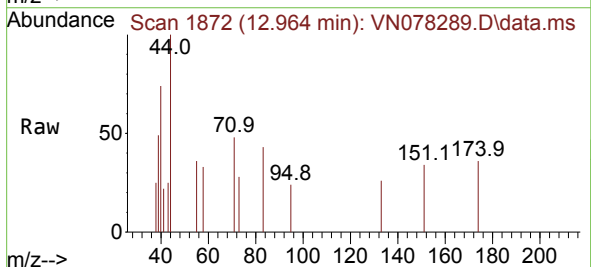
Instrument :
MSVOA_N
ClientSampleId :
WC-12

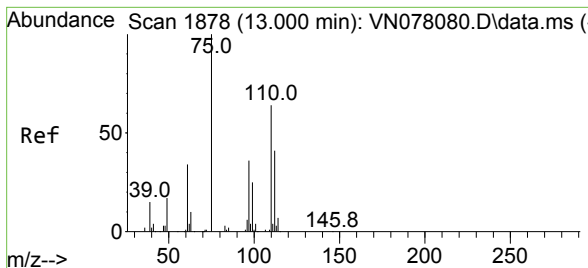
Tgt Ion:	43	Resp:	2194
Ion	Ratio	Lower	Upper
43	100		
70	14.3	43.4	65.2#
55	0.0	21.4	32.0#
61	0.0	22.8	34.2#



#75
1,1,2,2-Tetrachloroethane
Concen: Below Cal
RT: 12.964 min Scan# 1872
Delta R.T. 0.023 min
Lab File: VN078289.D
Acq: 19 Jun 2023 19:26

Tgt Ion:	83	Resp:	241
Ion	Ratio	Lower	Upper
83	100		
131	0.0	5.0	15.0#
85	22.8	31.9	95.7#

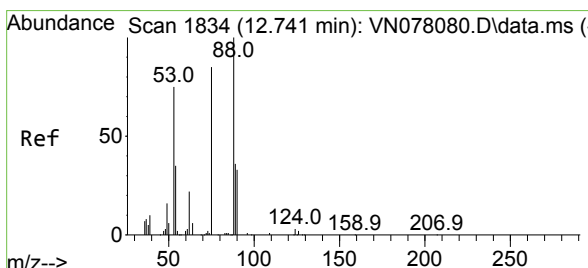
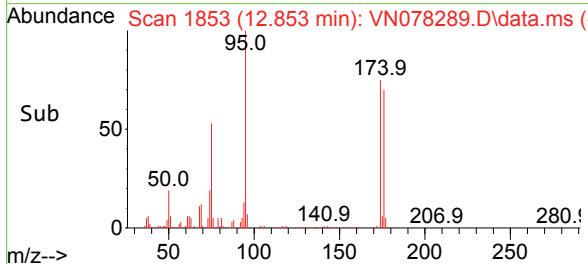
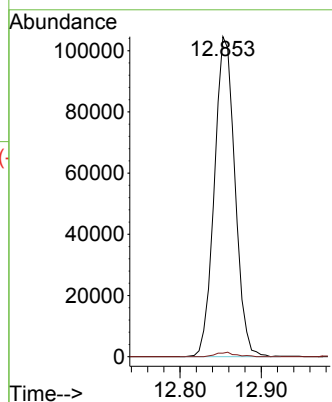
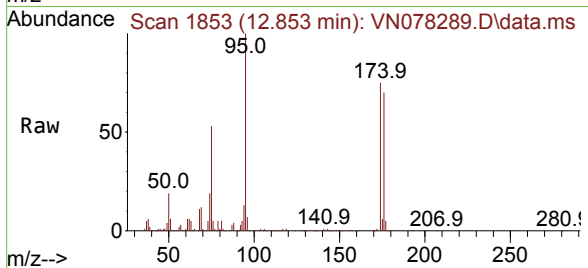




#76
1,2,3-Trichloropropane
Concen: 28.960 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. -0.147 min
Lab File: VN078289.D
Acq: 19 Jun 2023 19:26

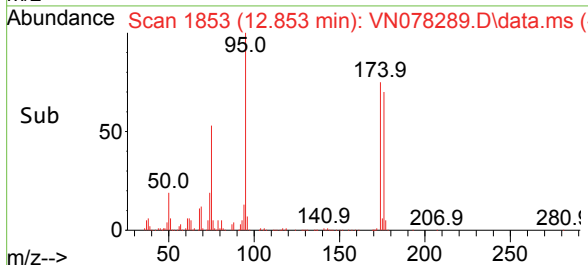
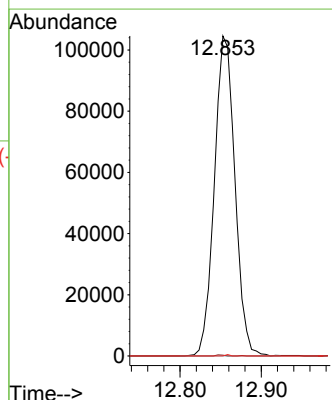
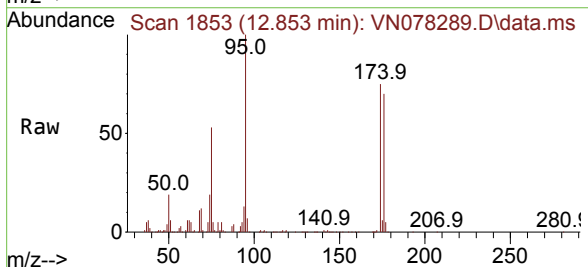
Instrument :
MSVOA_N
ClientSampleId :
WC-12

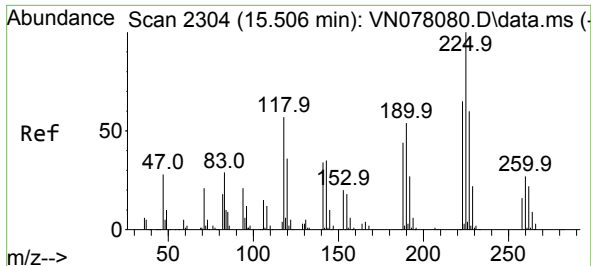
Tgt Ion: 75 Resp: 184302
Ion Ratio Lower Upper
75 100
77 1.3 84.5 253.5#



#81
trans-1,4-Dichloro-2-butene
Concen: 88.976 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.112 min
Lab File: VN078289.D
Acq: 19 Jun 2023 19:26

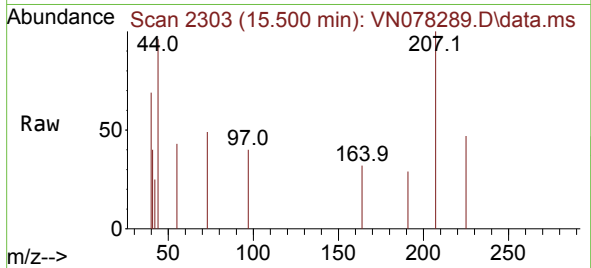
Tgt Ion: 75 Resp: 184302
Ion Ratio Lower Upper
75 100
53 0.1 67.4 101.2#
89 0.1 38.8 58.2#





#94
 Hexachlorobutadiene
 Concen: Below Cal
 RT: 15.500 min Scan# 21
 Delta R.T. -0.006 min
 Lab File: VN078289.D
 Acq: 19 Jun 2023 19:26

Instrument :
 MSVOA_N
 ClientSampleId :
 WC-12



Tgt Ion:	225	Resp:	109
Ion	Ratio	Lower	Upper
225	100		
223	56.0	31.3	93.8
227	142.2	31.9	95.9#

