

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061923\
 Data File : VN078292.D
 Acq On : 19 Jun 2023 20:39
 Operator : JC\MD
 Sample : 03320-17
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 WC-16

Quant Time: Jun 20 01:35:38 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)

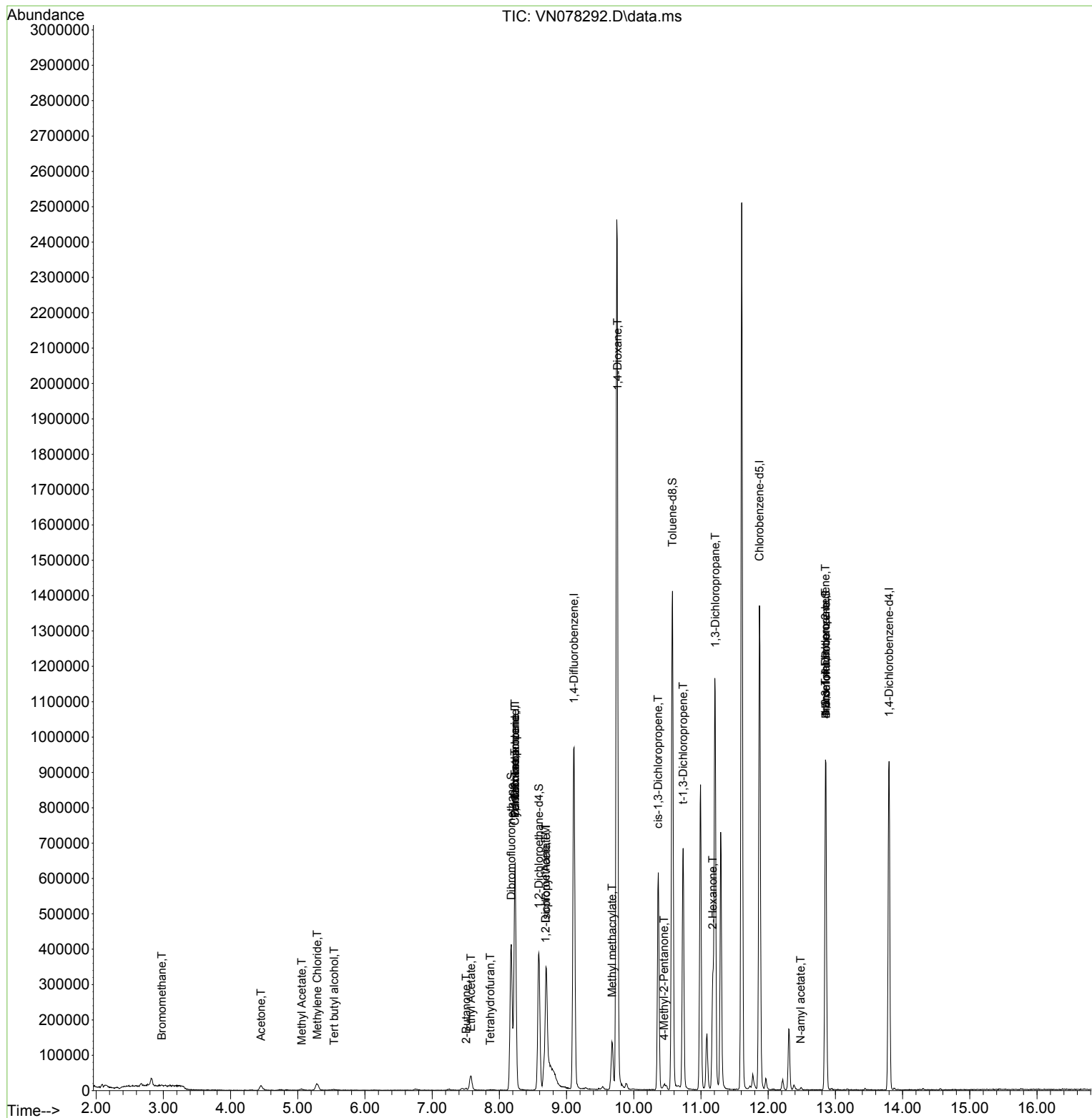
Internal Standards						
1) Pentafluorobenzene	8.235	168	453989	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.112	114	860996	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.871	117	808241	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.800	152	258646	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.588	65	322945	53.352	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	= 106.700%	
35) Dibromofluoromethane	8.177	113	298623	54.854	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 109.700%	
50) Toluene-d8	10.576	98	1020984	48.648	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	= 97.300%	
62) 4-Bromofluorobenzene	12.859	95	335501	51.423	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	= 102.840%	
Target Compounds						
					Qvalue	
3) Chloromethane	2.377	50	1007	Below Cal	#	53
5) Bromomethane	2.977	94	1771	0.349	ug/l #	53
11) Tert butyl alcohol	5.542	59	2377	2.844	ug/l	99
16) Acetone	4.453	43	25832	14.826	ug/l #	81
18) Methyl Acetate	5.059	43	6159	0.768	ug/l #	67
20) Methylene Chloride	5.289	84	15104	2.623	ug/l #	82
25) 2-Butanone	7.506	43	6531	2.438	ug/l #	76
29) Tetrahydrofuran	7.865	42	1142	0.638	ug/l #	29
31) Cyclohexane	8.230	56	11552	1.488	ug/l #	43
36) 1,1-Dichloropropene	8.235	75	38716	4.958	ug/l #	48
37) Ethyl Acetate	7.577	43	63029	10.332	ug/l	96
38) Carbon Tetrachloride	8.235	117	51268	6.218	ug/l #	18
42) 1,2-Dichloroethane	8.688	62	2453	0.307	ug/l #	73
43) Isopropyl Acetate	8.694	43	563131	48.270	ug/l #	69
48) Methyl methacrylate	9.677	41	8690	1.775	ug/l #	33
49) 1,4-Dioxane	9.759	88	379	3.683	ug/l #	1
51) 4-Methyl-2-Pentanone	10.453	43	19024	3.097	ug/l #	64
53) t-1,3-Dichloropropene	10.735	75	2249	0.272	ug/l #	43
54) cis-1,3-Dichloropropene	10.365	75	111625	12.218	ug/l #	72
57) 1,3-Dichloropropane	11.212	76	13924	1.482	ug/l #	42
59) 2-Hexanone	11.176	43	280140	65.491	ug/l #	19
71) Bromoform	12.859	173	3405	0.829	ug/l #	1
74) N-amyl acetate	12.482	43	2994	0.372	ug/l #	40
75) 1,1,2,2-Tetrachloroethane	12.947	83	80	Below Cal	#	26
76) 1,2,3-Trichloropropane	12.853	75	182656	29.873	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.853	75	182656	91.778	ug/l #	15

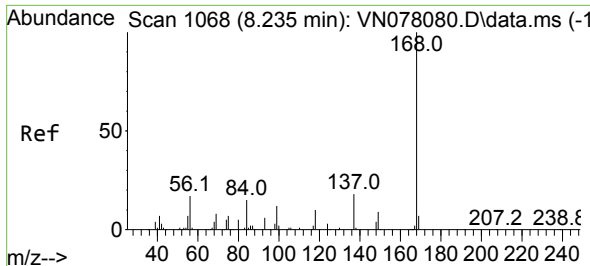
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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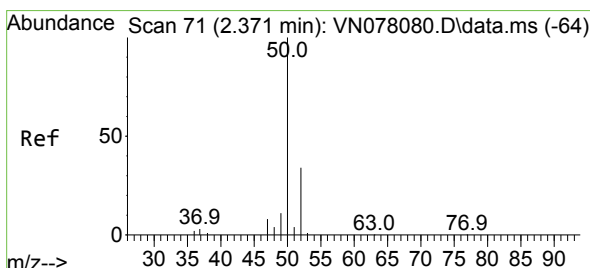
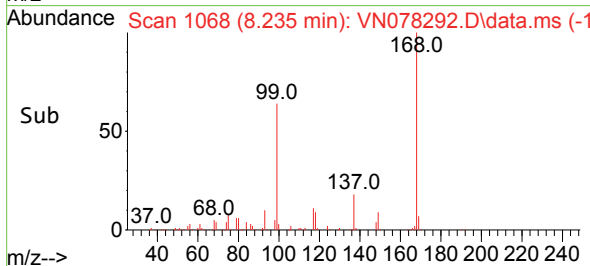
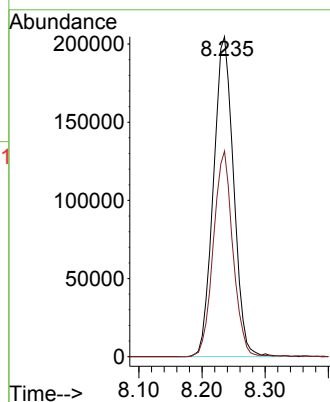
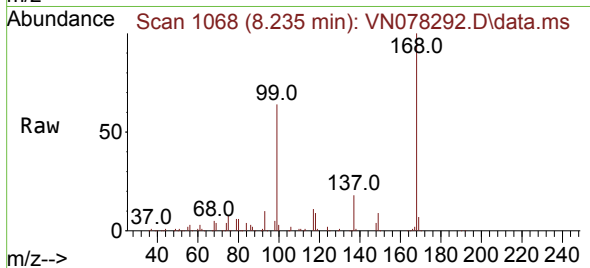




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.235 min Scan# 1068
Delta R.T. 0.000 min
Lab File: VN078292.D
Acq: 19 Jun 2023 20:39

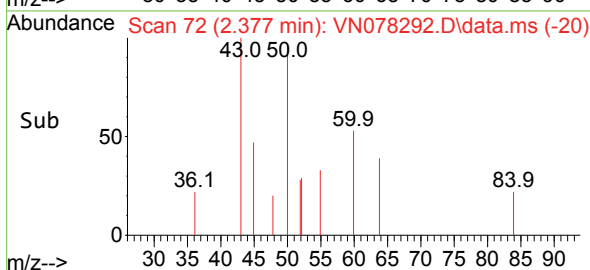
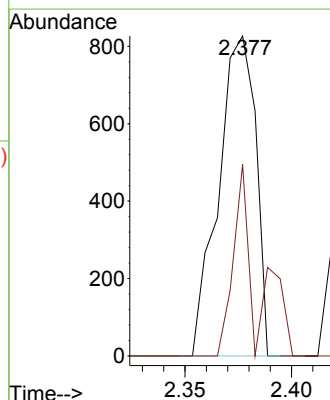
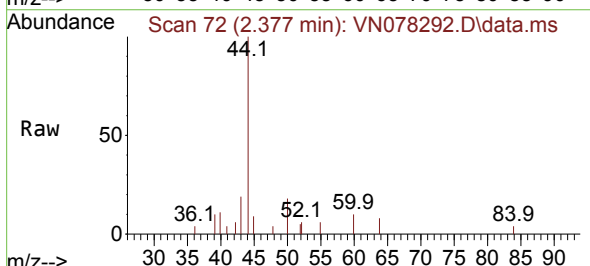
Instrument :
MSVOA_N
ClientSampleId :
WC-16

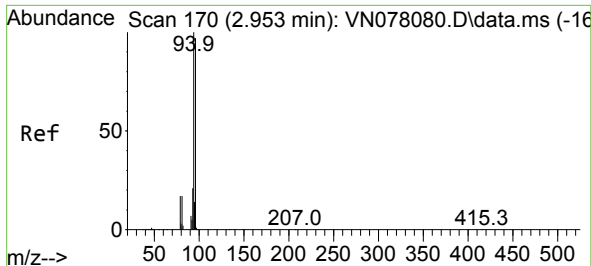
Tgt Ion:168 Resp: 453989
Ion Ratio Lower Upper
168 100
99 64.2 53.0 79.6



#3
Chloromethane
Concen: Below Cal
RT: 2.377 min Scan# 72
Delta R.T. 0.006 min
Lab File: VN078292.D
Acq: 19 Jun 2023 20:39

Tgt Ion: 50 Resp: 1007
Ion Ratio Lower Upper
50 100
52 59.9 26.5 39.7#

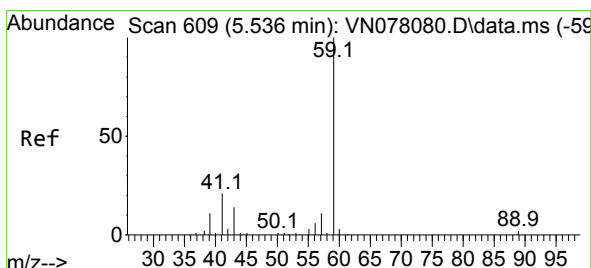
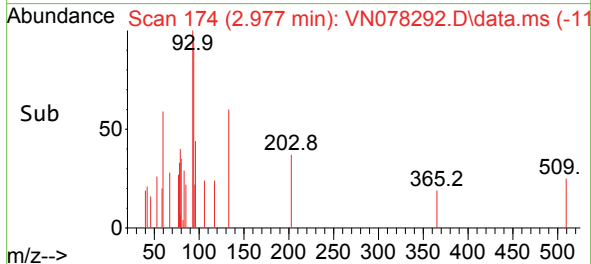
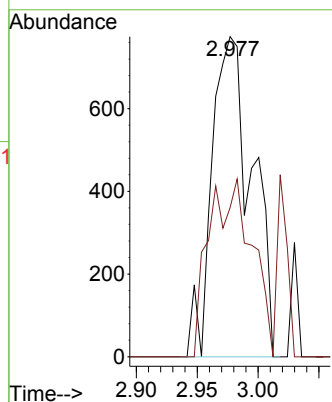
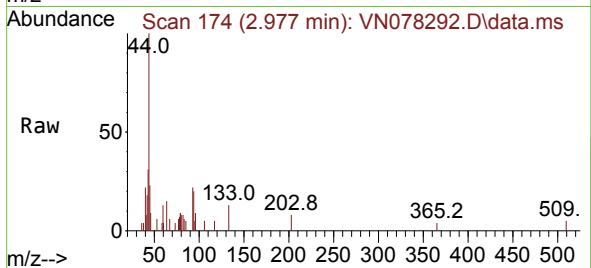




#5
Bromomethane
Concen: 0.349 ug/l
RT: 2.977 min Scan# 11
Delta R.T. 0.024 min
Lab File: VN078292.D
Acq: 19 Jun 2023 20:39

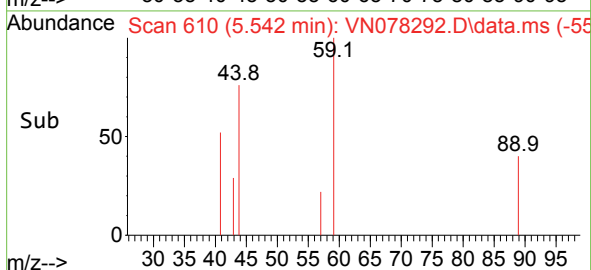
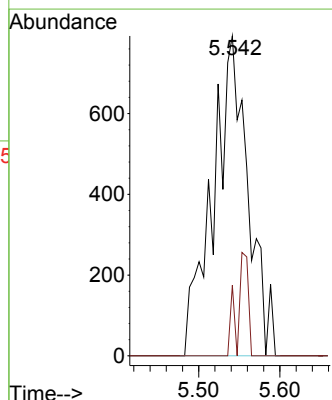
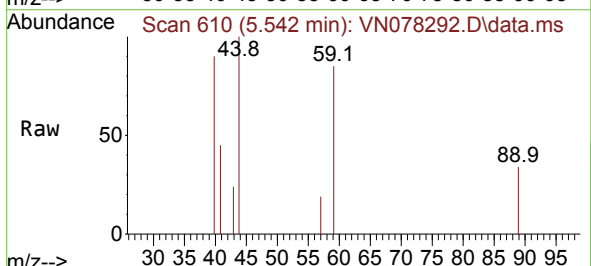
Instrument :
MSVOA_N
ClientSampleId :
WC-16

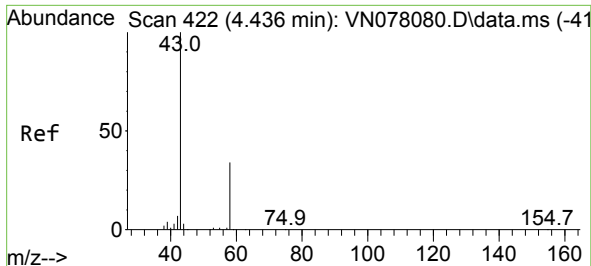
Tgt Ion: 94 Resp: 1771
Ion Ratio Lower Upper
94 100
96 46.6 73.1 109.7#



#11
Tert butyl alcohol
Concen: 2.844 ug/l
RT: 5.542 min Scan# 610
Delta R.T. 0.006 min
Lab File: VN078292.D
Acq: 19 Jun 2023 20:39

Tgt Ion: 59 Resp: 2377
Ion Ratio Lower Upper
59 100
57 10.1 8.2 12.4





#16

Acetone

Concen: 14.826 ug/l

RT: 4.453 min Scan# 41

Delta R.T. 0.018 min

Lab File: VN078292.D

Acq: 19 Jun 2023 20:39

Instrument :

MSVOA_N

ClientSampleId :

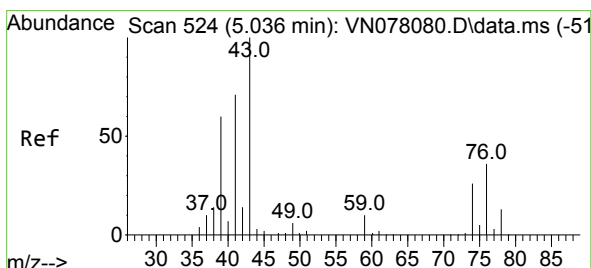
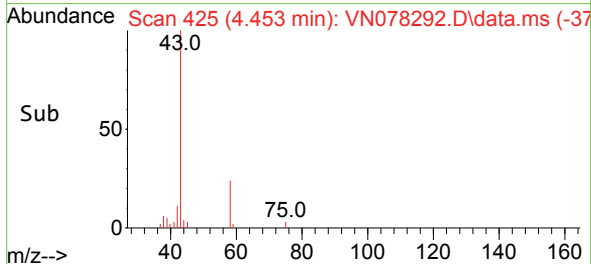
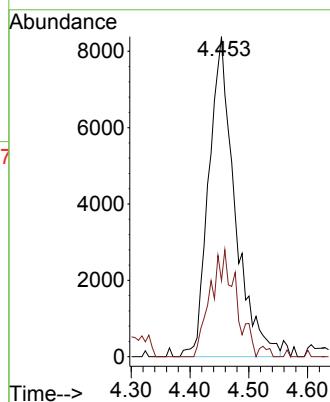
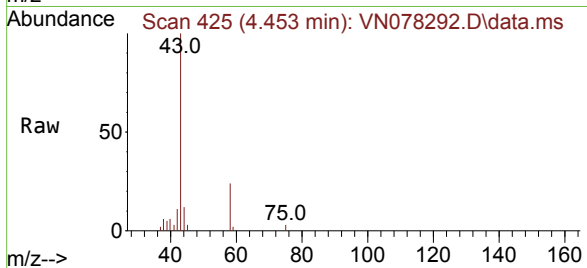
WC-16

Tgt Ion: 43 Resp: 25832

Ion Ratio Lower Upper

43 100

58 23.8 28.0 42.0#



#18

Methyl Acetate

Concen: 0.768 ug/l

RT: 5.059 min Scan# 528

Delta R.T. 0.024 min

Lab File: VN078292.D

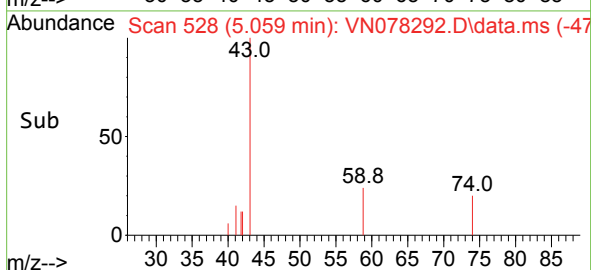
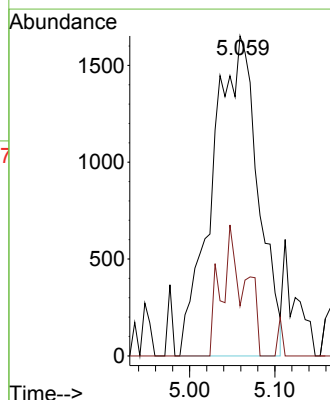
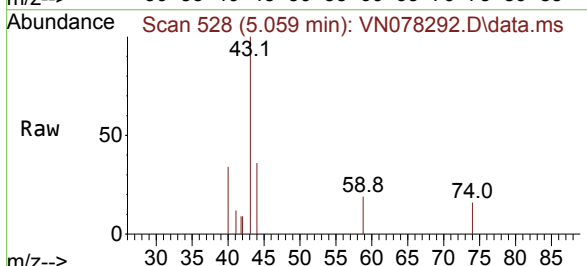
Acq: 19 Jun 2023 20:39

Tgt Ion: 43 Resp: 6159

Ion Ratio Lower Upper

43 100

74 14.0 26.2 39.4#

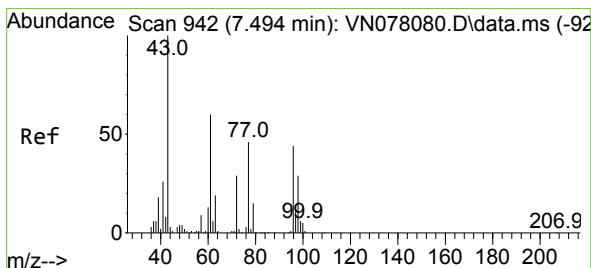
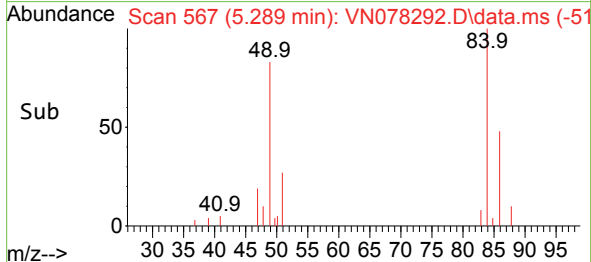
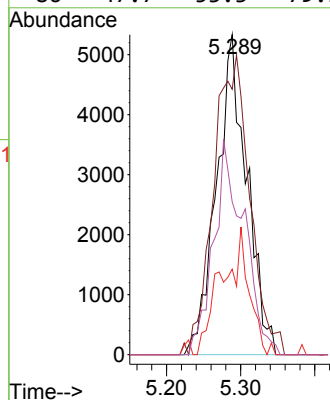
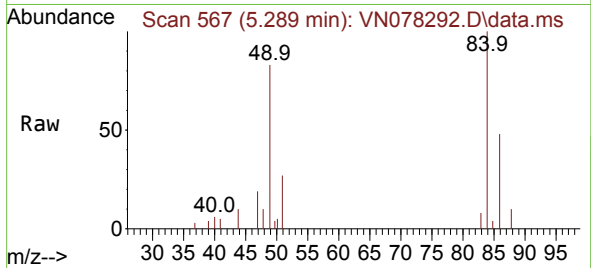




#20
Methylene Chloride
Concen: 2.623 ug/l
RT: 5.289 min Scan# 51
Delta R.T. 0.006 min
Lab File: VN078292.D
Acq: 19 Jun 2023 20:39

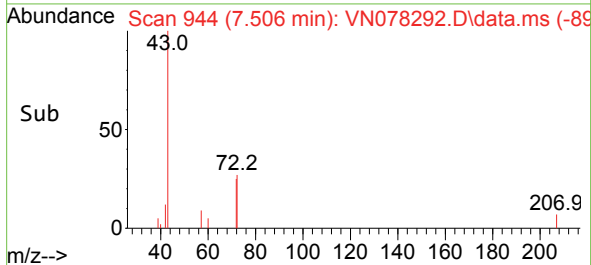
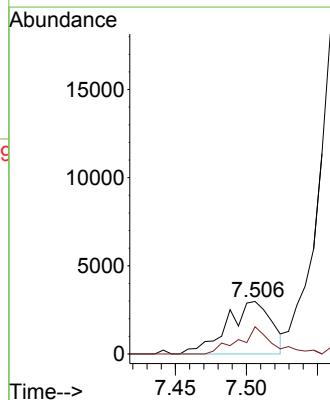
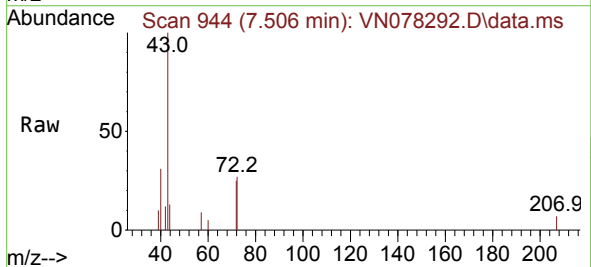
Instrument :
MSVOA_N
ClientSampleId :
WC-16

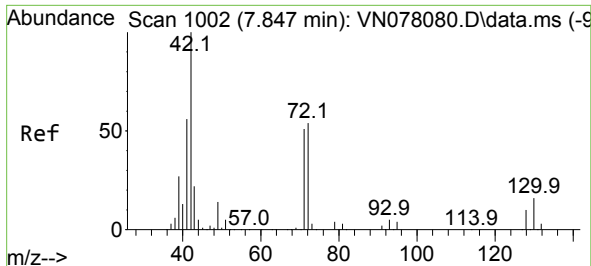
Tgt Ion: 84	Resp: 15104
Ion Ratio	Lower Upper
84 100	
49 83.0	79.7 119.5
51 26.8	25.2 37.8
86 47.7	53.3 79.9#



#25
2-Butanone
Concen: 2.438 ug/l
RT: 7.506 min Scan# 944
Delta R.T. 0.012 min
Lab File: VN078292.D
Acq: 19 Jun 2023 20:39

Tgt Ion: 43	Resp: 6531
Ion Ratio	Lower Upper
43 100	
72 51.9	30.2 45.2#

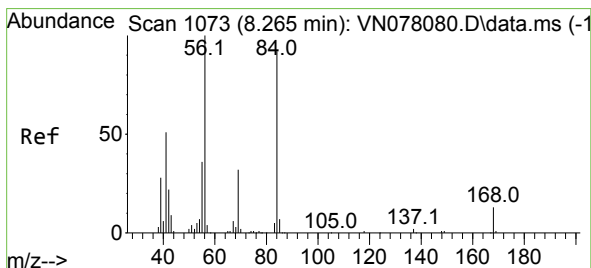
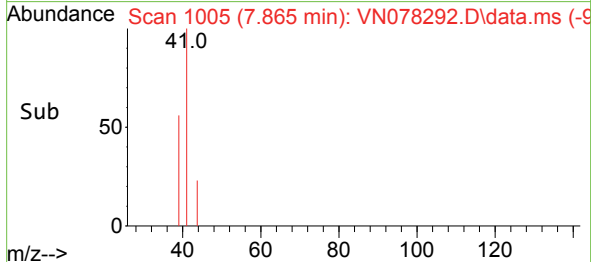
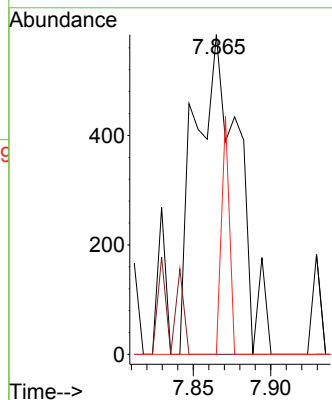
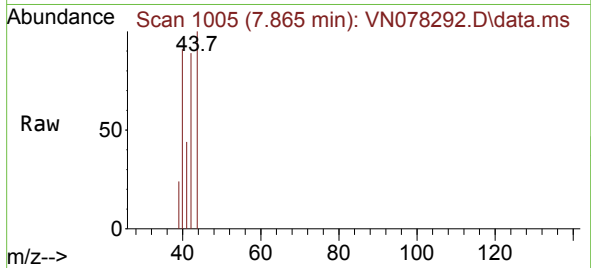




#29
Tetrahydrofuran
Concen: 0.638 ug/l
RT: 7.865 min Scan# 1067
Delta R.T. 0.018 min
Lab File: VN078292.D
Acq: 19 Jun 2023 20:39

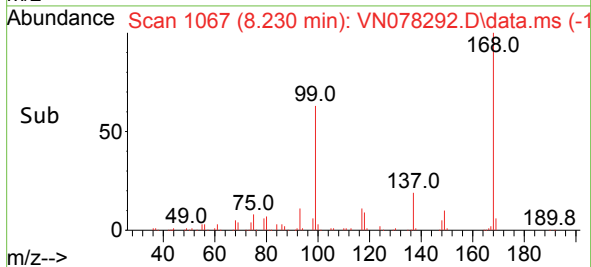
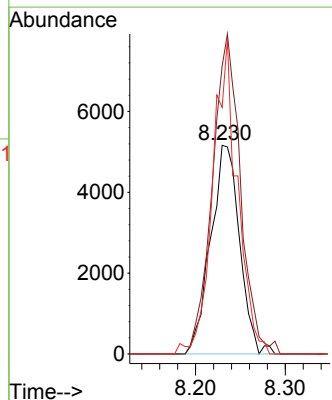
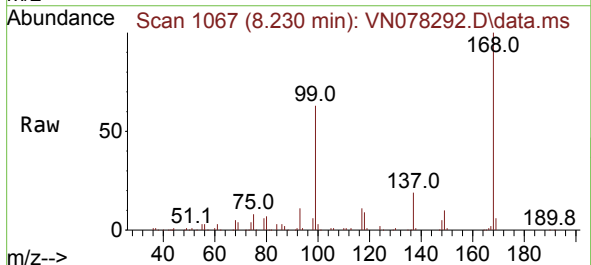
Instrument :
MSVOA_N
ClientSampleId :
WC-16

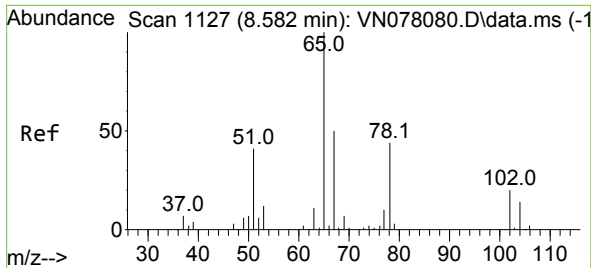
Tgt Ion: 42 Resp: 1142
Ion Ratio Lower Upper
42 100
72 0.0 49.8 74.6#
71 13.5 47.4 71.2#



#31
Cyclohexane
Concen: 1.488 ug/l
RT: 8.230 min Scan# 1067
Delta R.T. -0.035 min
Lab File: VN078292.D
Acq: 19 Jun 2023 20:39

Tgt Ion: 56 Resp: 11552
Ion Ratio Lower Upper
56 100
69 137.8 26.8 40.2#
84 118.1 81.8 122.6

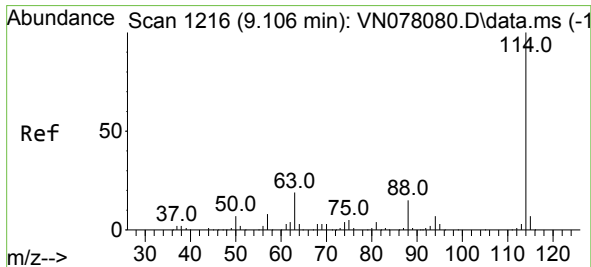
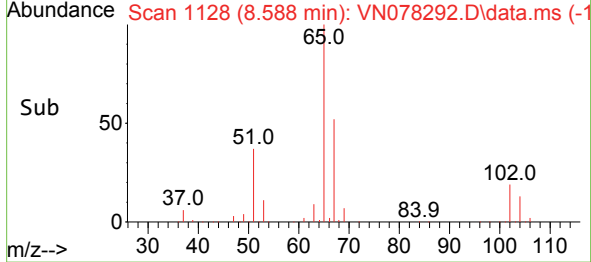
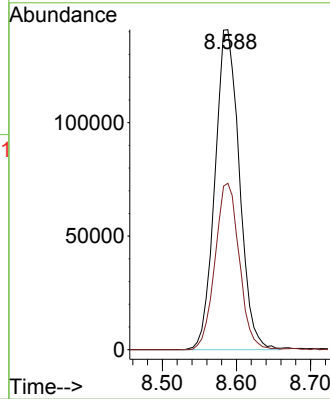
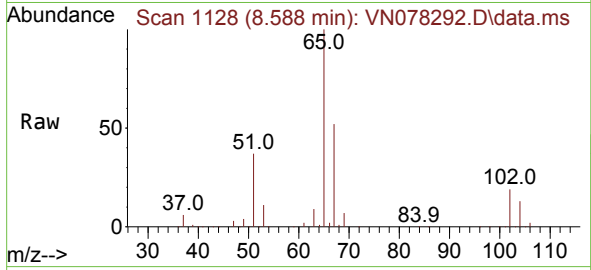




#33
 1,2-Dichloroethane-d4
 Concen: 53.352 ug/l
 RT: 8.588 min Scan# 1127
 Delta R.T. 0.006 min
 Lab File: VN078292.D
 Acq: 19 Jun 2023 20:39

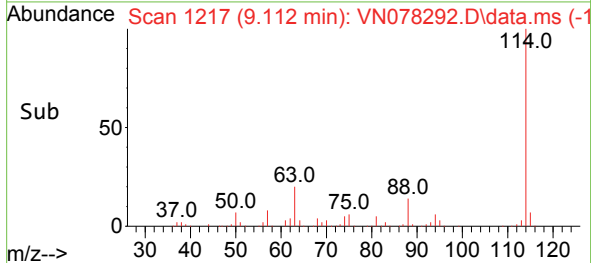
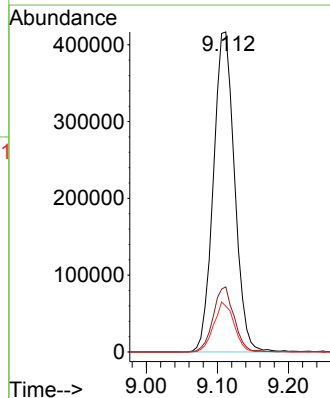
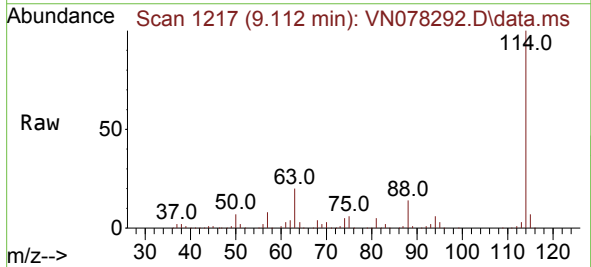
Instrument :
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 WC-16

Tgt Ion: 65 Resp: 322945
 Ion Ratio Lower Upper
 65 100
 67 51.6 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: VN078292.D
 Acq: 19 Jun 2023 20:39

Tgt Ion: 114 Resp: 860996
 Ion Ratio Lower Upper
 114 100
 63 20.4 0.0 36.4
 88 14.3 0.0 30.6

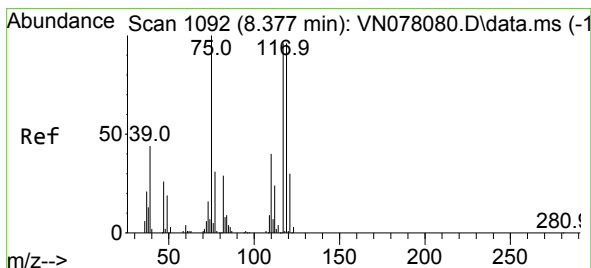
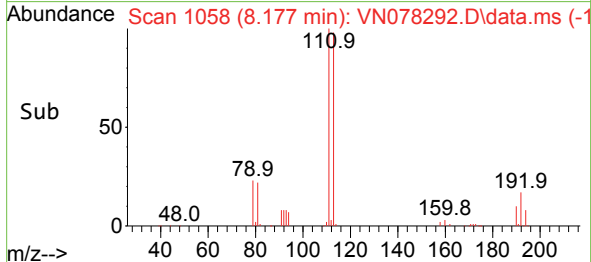
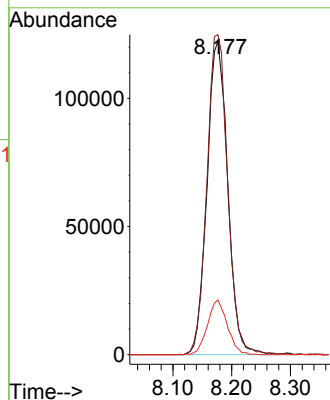
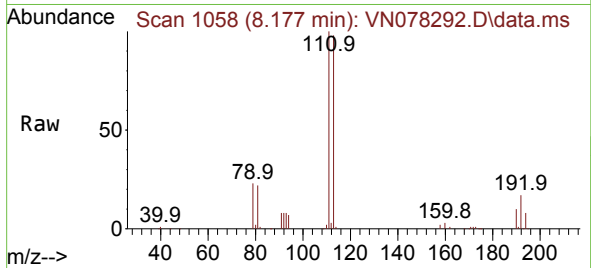




#35
Dibromofluoromethane
Concen: 54.854 ug/l
RT: 8.177 min Scan# 1058
Delta R.T. 0.000 min
Lab File: VN078292.D
Acq: 19 Jun 2023 20:39

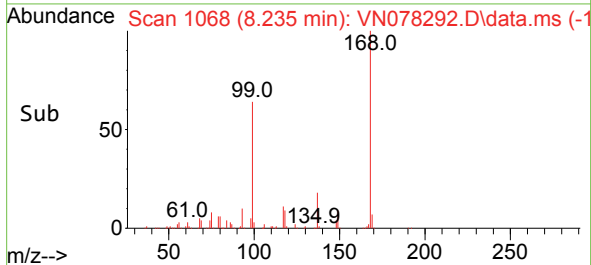
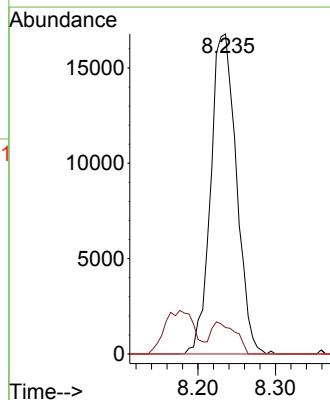
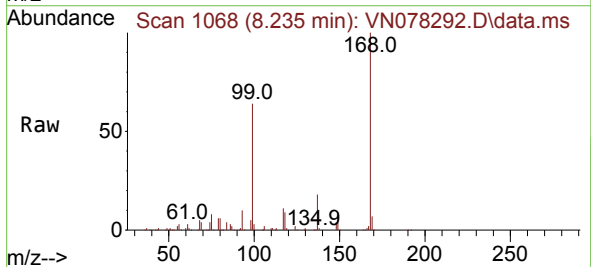
Instrument :
MSVOA_N
ClientSampleId :
WC-16

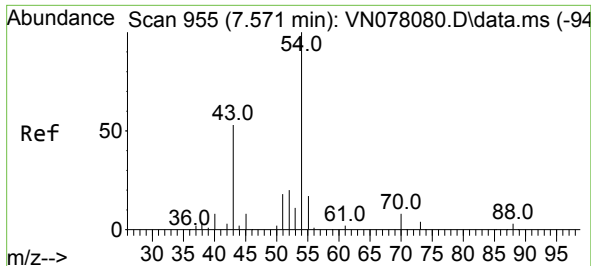
Tgt Ion:113 Resp: 298623
Ion Ratio Lower Upper
113 100
111 102.8 82.6 123.8
192 16.8 12.7 19.1



#36
1,1-Dichloropropene
Concen: 4.958 ug/l
RT: 8.235 min Scan# 1068
Delta R.T. -0.141 min
Lab File: VN078292.D
Acq: 19 Jun 2023 20:39

Tgt Ion: 75 Resp: 38716
Ion Ratio Lower Upper
75 100
110 9.2 19.1 57.3#
77 0.0 25.0 37.4#

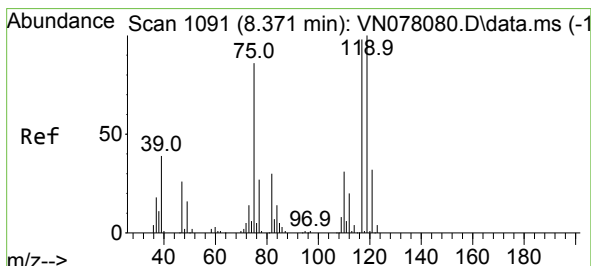
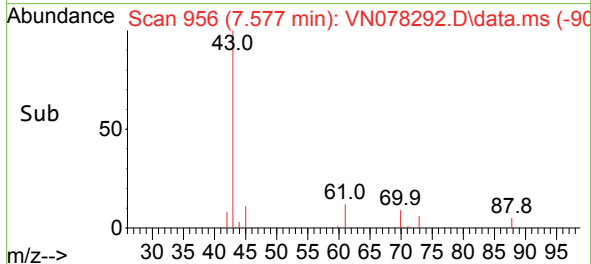
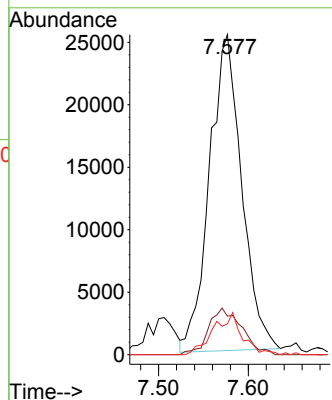
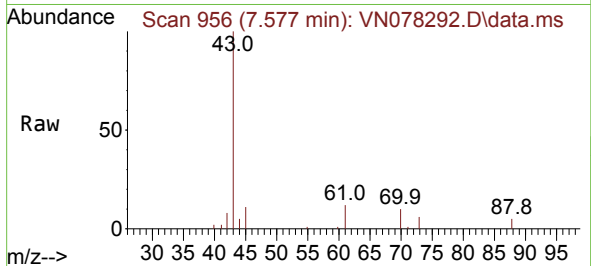




#37
Ethyl Acetate
Concen: 10.332 ug/l
RT: 7.577 min Scan# 91
Delta R.T. 0.006 min
Lab File: VN078292.D
Acq: 19 Jun 2023 20:39

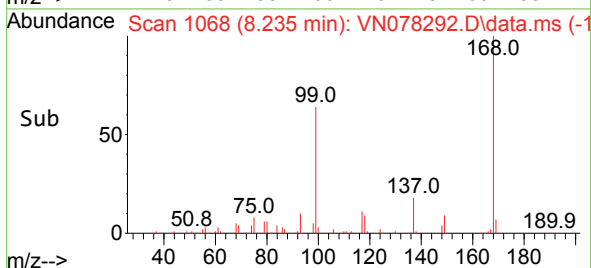
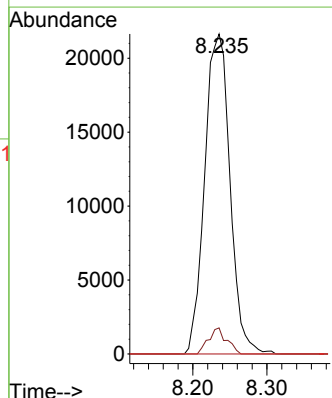
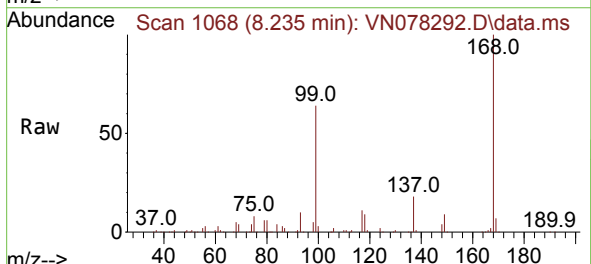
Instrument :
MSVOA_N
ClientSampleId :
WC-16

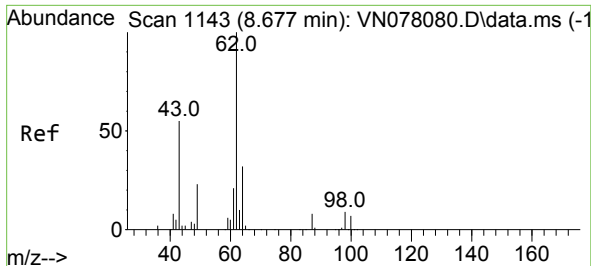
Tgt Ion:	43	Resp:	63029
Ion	Ratio	Lower	Upper
43	100		
61	15.2	13.2	19.8
70	11.9	11.3	16.9



#38
Carbon Tetrachloride
Concen: 6.218 ug/l
RT: 8.235 min Scan# 1068
Delta R.T. -0.135 min
Lab File: VN078292.D
Acq: 19 Jun 2023 20:39

Tgt Ion:	117	Resp:	51268
Ion	Ratio	Lower	Upper
117	100		
119	8.2	77.3	115.9#
121	0.0	23.3	34.9#





#42

1,2-Dichloroethane

Concen: 0.307 ug/l

RT: 8.688 min Scan# 1145

Delta R.T. 0.012 min

Lab File: VN078292.D

Acq: 19 Jun 2023 20:39

Instrument :

MSVOA_N

ClientSampleId :

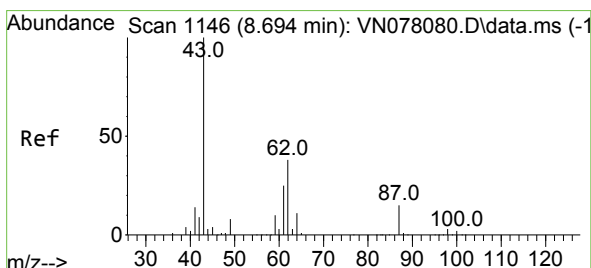
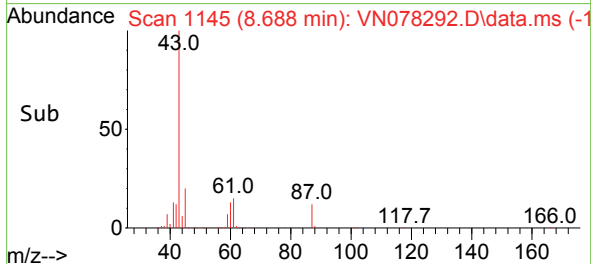
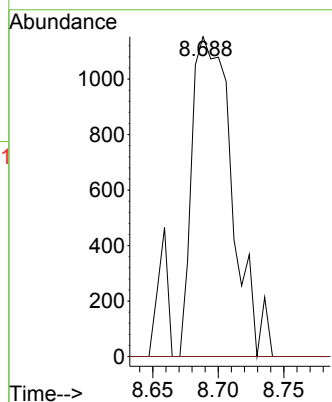
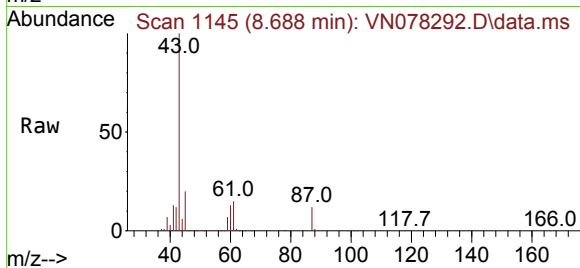
WC-16

Tgt Ion: 62 Resp: 2453

Ion Ratio Lower Upper

62 100

98 0.0 0.0 19.8



#43

Isopropyl Acetate

Concen: 48.270 ug/l

RT: 8.694 min Scan# 1146

Delta R.T. 0.000 min

Lab File: VN078292.D

Acq: 19 Jun 2023 20:39

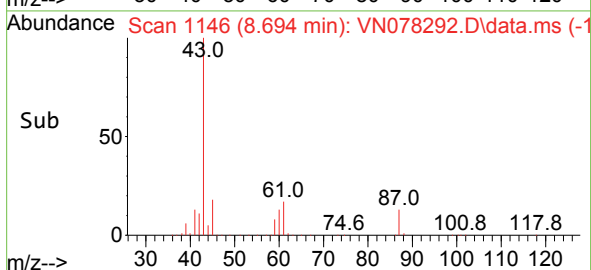
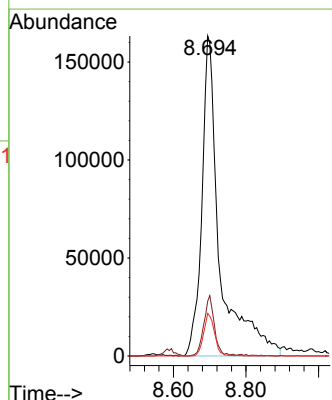
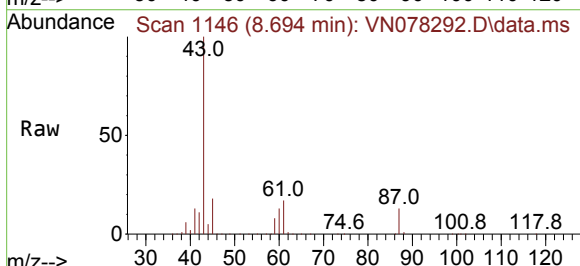
Tgt Ion: 43 Resp: 563131

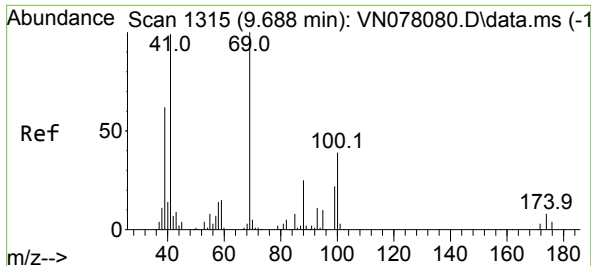
Ion Ratio Lower Upper

43 100

61 11.1 24.7 37.1#

87 8.0 14.6 21.8#

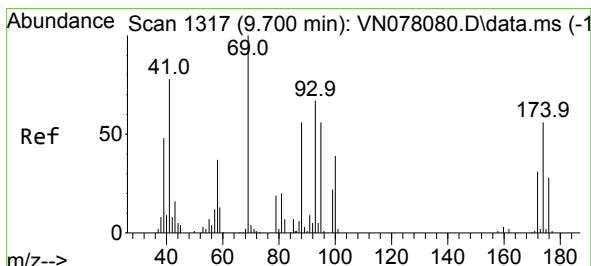
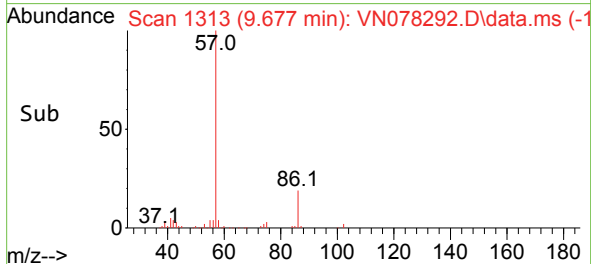
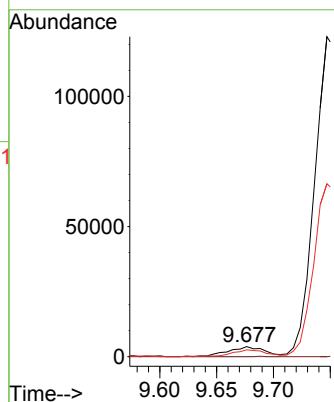
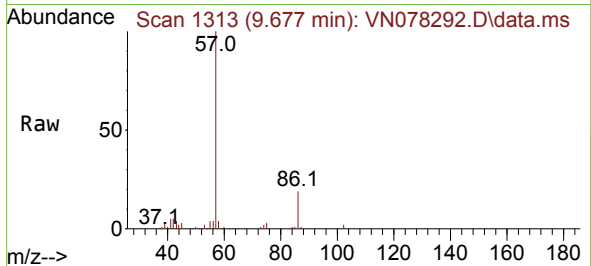




#48
Methyl methacrylate
Concen: 1.775 ug/l
RT: 9.677 min Scan# 11
Delta R.T. -0.012 min
Lab File: VN078292.D
Acq: 19 Jun 2023 20:39

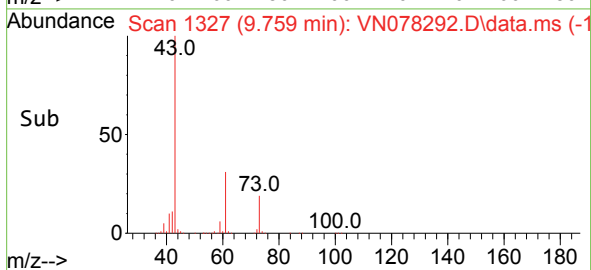
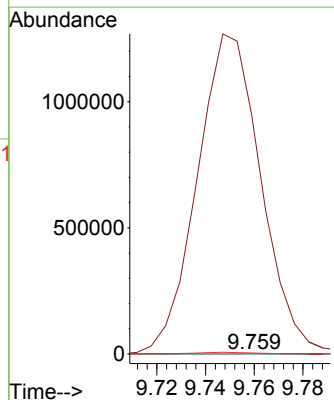
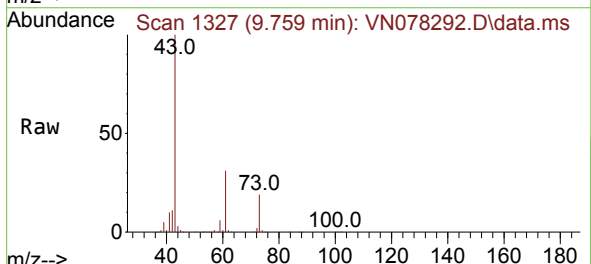
Instrument :
MSVOA_N
ClientSampleId :
WC-16

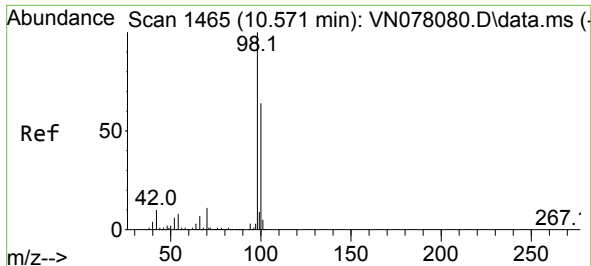
Tgt Ion: 41 Resp: 8690
Ion Ratio Lower Upper
41 100
69 0.7 90.4 135.6#
39 65.2 54.6 81.8



#49
1,4-Dioxane
Concen: 3.683 ug/l
RT: 9.759 min Scan# 1327
Delta R.T. 0.059 min
Lab File: VN078292.D
Acq: 19 Jun 2023 20:39

Tgt Ion: 88 Resp: 379
Ion Ratio Lower Upper
88 100
43 614921.9 17.0 25.6#
58 3133.0 47.0 70.4#

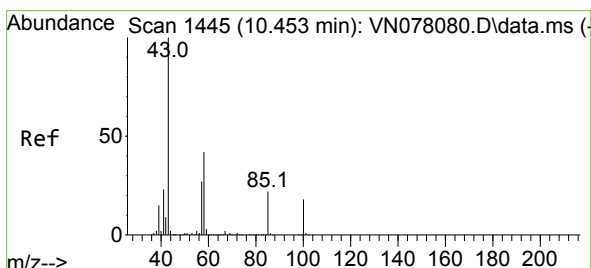
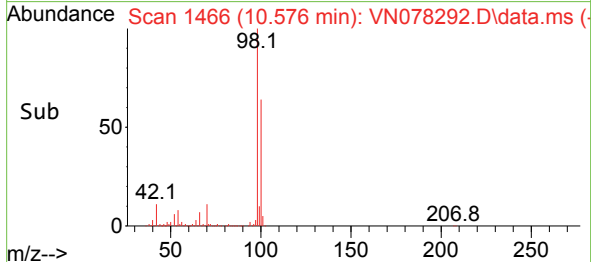
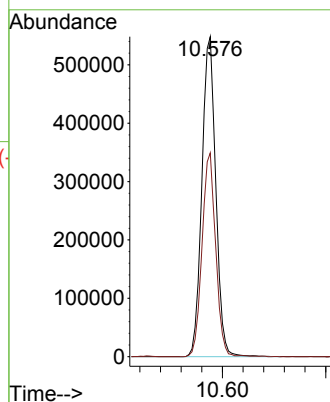
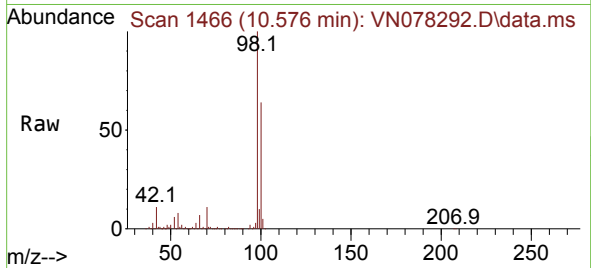




#50
Toluene-d8
Concen: 48.648 ug/l
RT: 10.576 min Scan# 1466
Delta R.T. 0.006 min
Lab File: VN078292.D
Acq: 19 Jun 2023 20:39

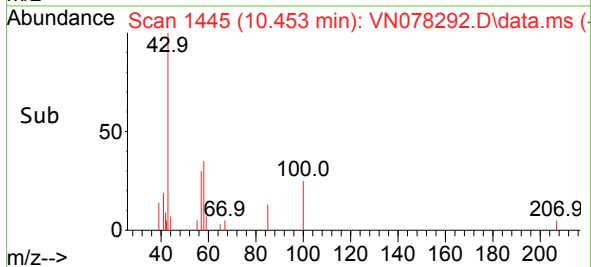
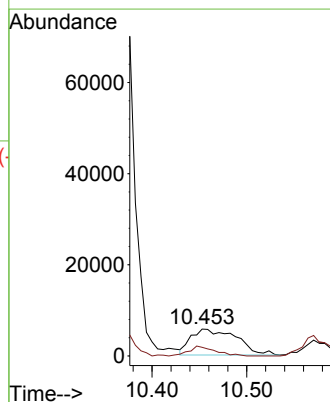
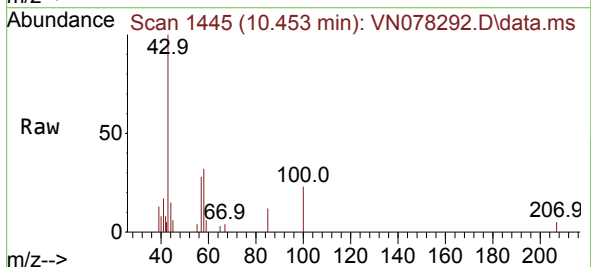
Instrument :
MSVOA_N
ClientSampleId :
WC-16

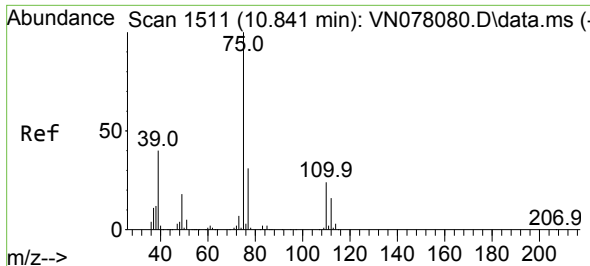
Tgt Ion: 98 Resp: 1020984
Ion Ratio Lower Upper
98 100
100 62.4 52.0 78.0



#51
4-Methyl-2-Pentanone
Concen: 3.097 ug/l
RT: 10.453 min Scan# 1445
Delta R.T. 0.000 min
Lab File: VN078292.D
Acq: 19 Jun 2023 20:39

Tgt Ion: 43 Resp: 19024
Ion Ratio Lower Upper
43 100
58 21.9 36.6 54.8#

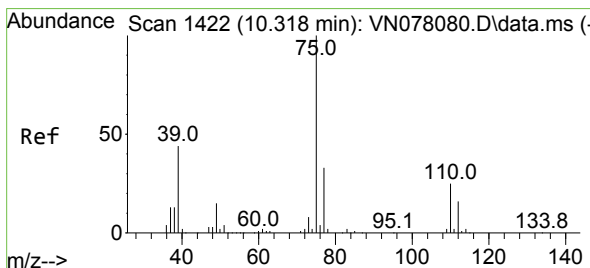
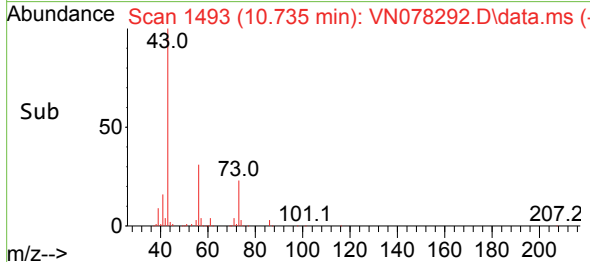
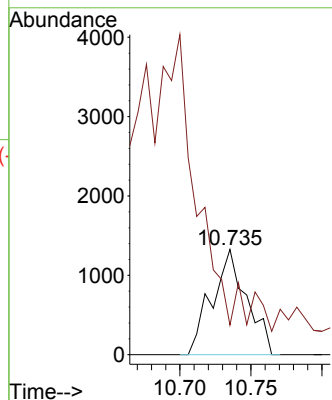
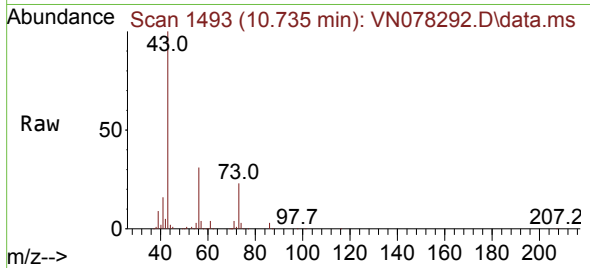




#53
t-1,3-Dichloropropene
Concen: 0.272 ug/l
RT: 10.735 min Scan# 1430
Delta R.T. -0.106 min
Lab File: VN078292.D
Acq: 19 Jun 2023 20:39

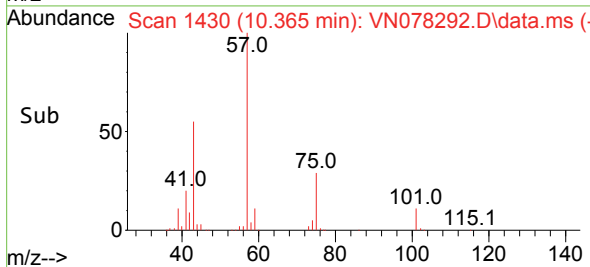
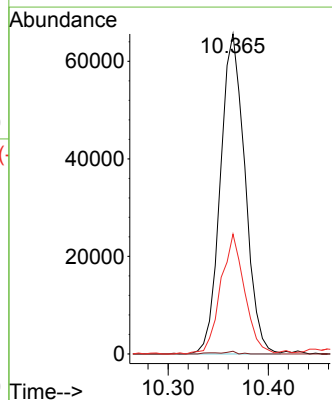
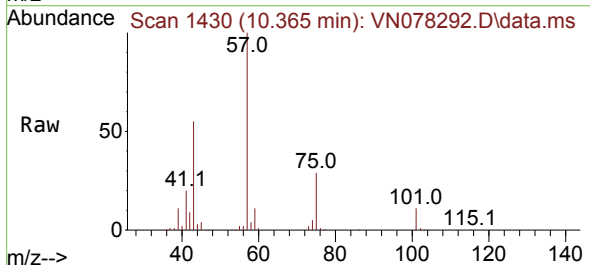
Instrument :
MSVOA_N
ClientSampleId :
WC-16

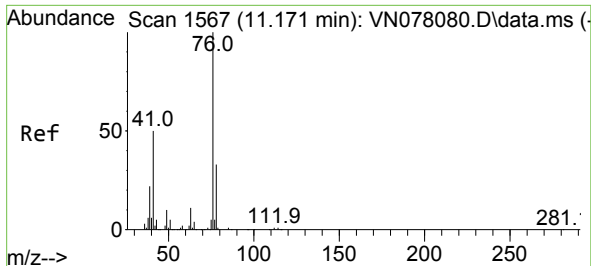
Tgt Ion: 75 Resp: 2249
Ion Ratio Lower Upper
75 100
77 0.0 25.4 38.0#



#54
cis-1,3-Dichloropropene
Concen: 12.218 ug/l
RT: 10.365 min Scan# 1430
Delta R.T. 0.047 min
Lab File: VN078292.D
Acq: 19 Jun 2023 20:39

Tgt Ion: 75 Resp: 111625
Ion Ratio Lower Upper
75 100
77 0.9 26.1 39.1#
39 37.1 31.6 47.4





#57

1,3-Dichloropropane

Concen: 1.482 ug/l

RT: 11.212 min Scan# 1574

Delta R.T. 0.041 min

Lab File: VN078292.D

Acq: 19 Jun 2023 20:39

Instrument :

MSVOA_N

ClientSampleId :

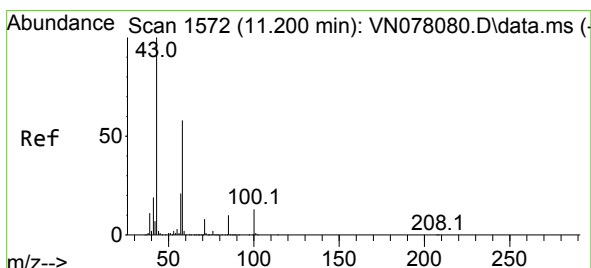
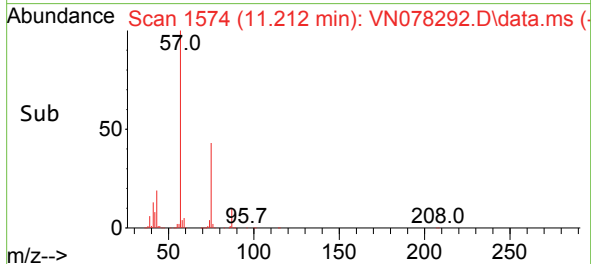
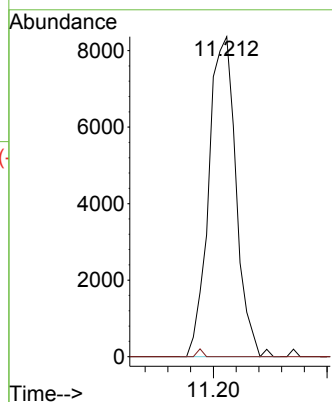
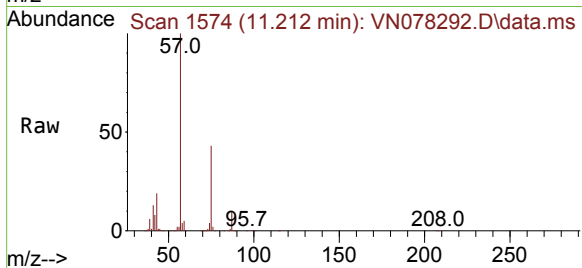
WC-16

Tgt Ion: 76 Resp: 13924

Ion Ratio Lower Upper

76 100

78 0.0 26.1 39.1#



#59

2-Hexanone

Concen: 65.491 ug/l

RT: 11.176 min Scan# 1568

Delta R.T. -0.024 min

Lab File: VN078292.D

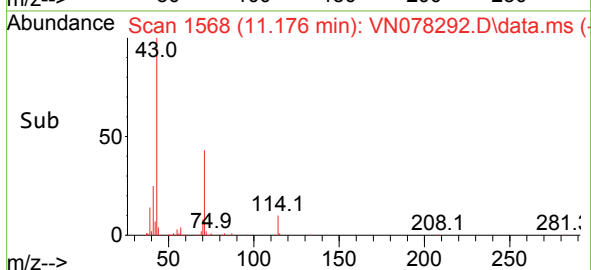
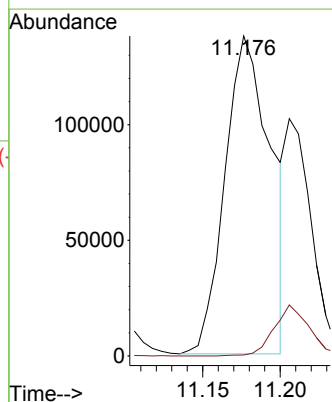
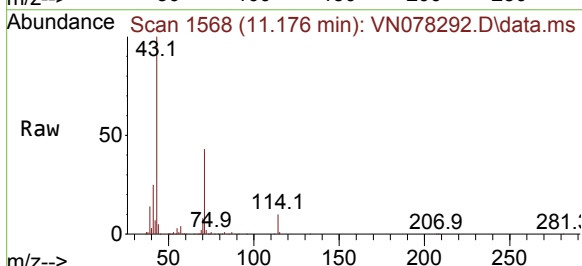
Acq: 19 Jun 2023 20:39

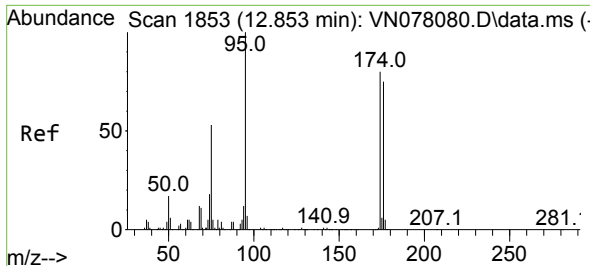
Tgt Ion: 43 Resp: 280140

Ion Ratio Lower Upper

43 100

58 0.0 31.7 95.1#

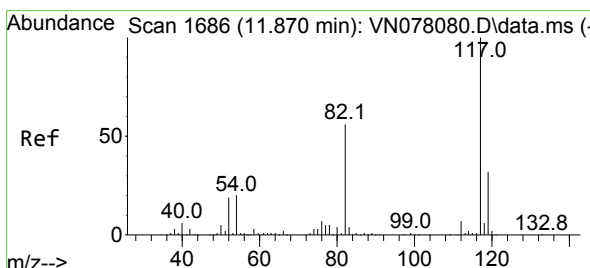
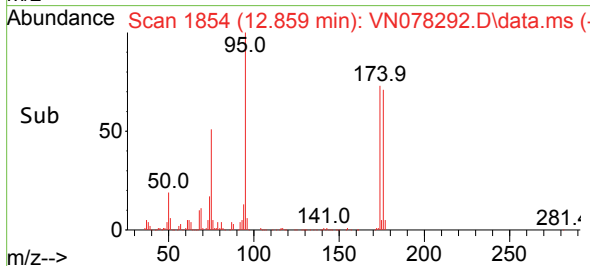
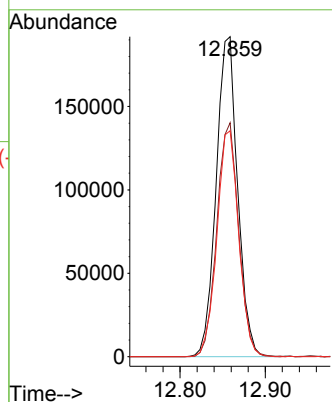
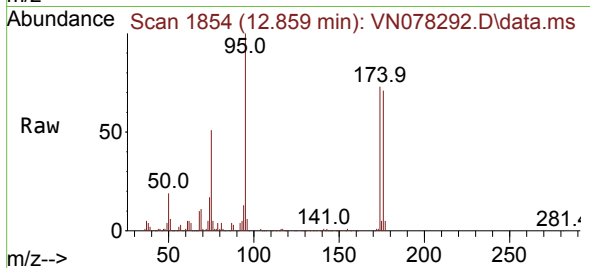




#62
4-Bromofluorobenzene
Concen: 51.423 ug/l
RT: 12.859 min Scan# 1854
Delta R.T. 0.006 min
Lab File: VN078292.D
Acq: 19 Jun 2023 20:39

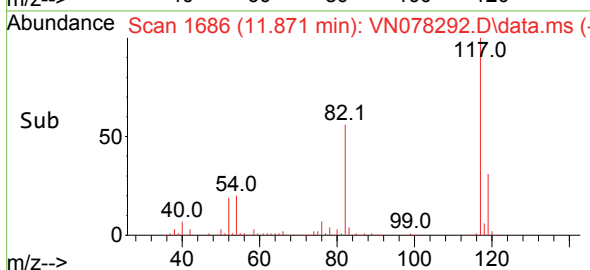
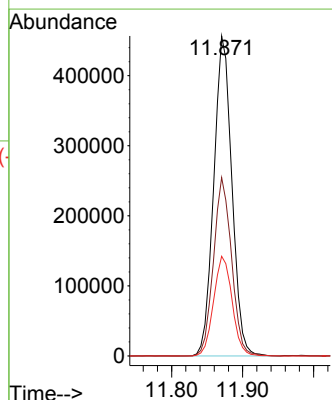
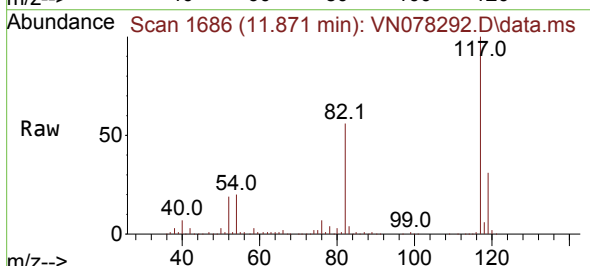
Instrument :
MSVOA_N
ClientSampleId :
WC-16

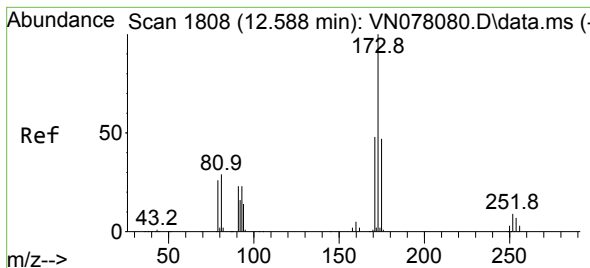
Tgt Ion: 95 Resp: 335501
Ion Ratio Lower Upper
95 100
174 74.4 0.0 143.8
176 71.7 0.0 135.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.871 min Scan# 1686
Delta R.T. 0.000 min
Lab File: VN078292.D
Acq: 19 Jun 2023 20:39

Tgt Ion: 117 Resp: 808241
Ion Ratio Lower Upper
117 100
82 55.8 44.0 66.0
119 31.2 25.6 38.4





#71

Bromoform

Concen: 0.829 ug/l

RT: 12.859 min Scan# 1854

Delta R.T. 0.271 min

Lab File: VN078292.D

Acq: 19 Jun 2023 20:39

Instrument :

MSVOA_N

ClientSampleId :

WC-16

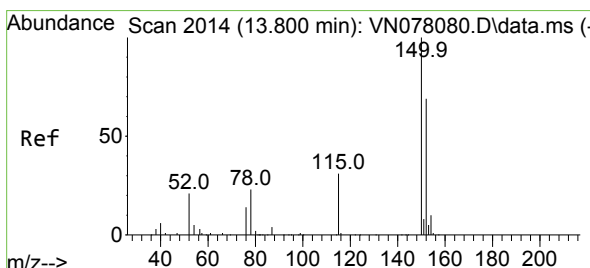
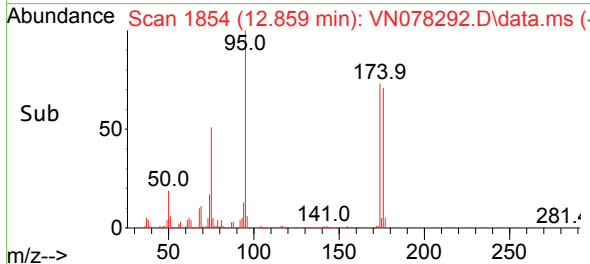
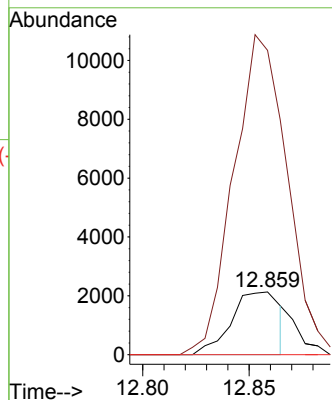
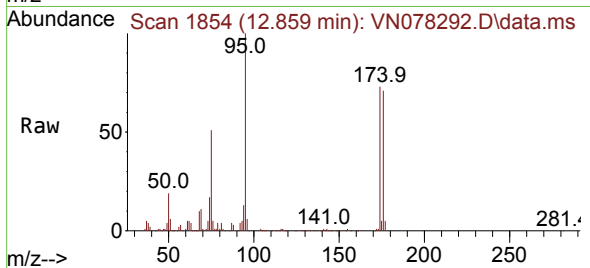
Tgt Ion:173 Resp: 3405

Ion Ratio Lower Upper

173 100

175 474.1 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: VN078292.D

Acq: 19 Jun 2023 20:39

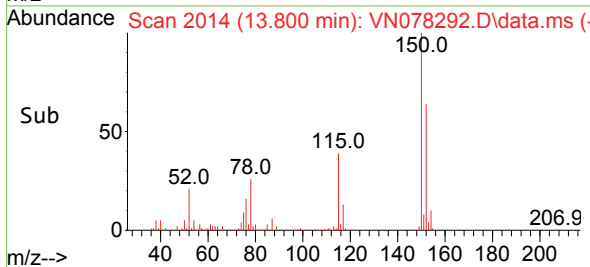
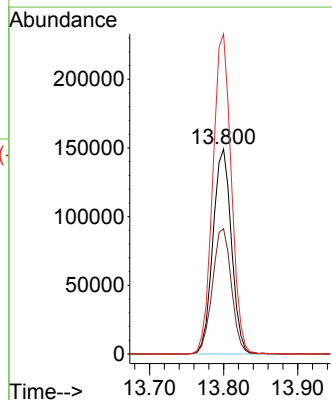
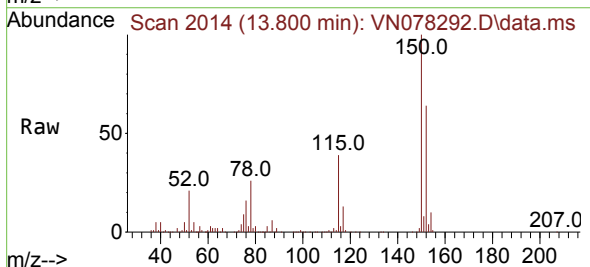
Tgt Ion:152 Resp: 258646

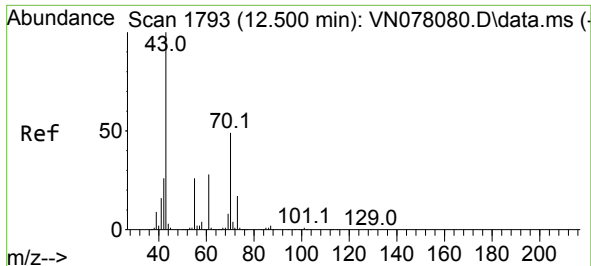
Ion Ratio Lower Upper

152 100

115 62.7 32.3 96.8

150 156.1 0.0 355.8

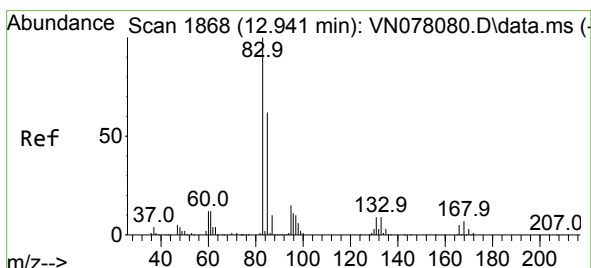
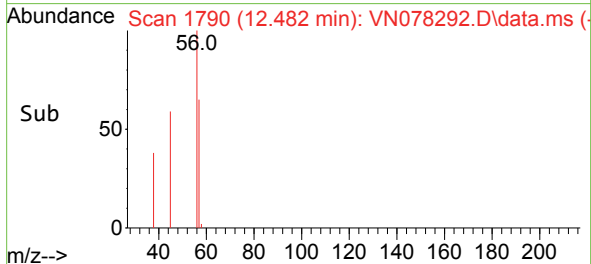
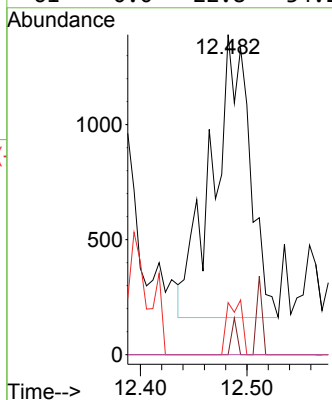
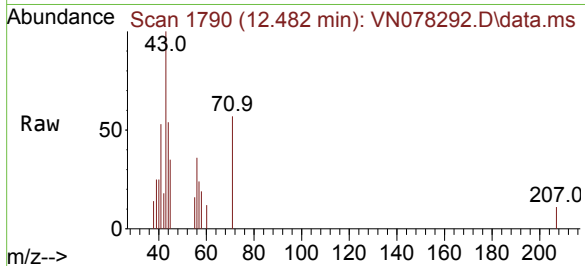




#74
N-amy1 acetate
Concen: 0.372 ug/l
RT: 12.482 min Scan# 1
Delta R.T. -0.018 min
Lab File: VN078292.D
Acq: 19 Jun 2023 20:39

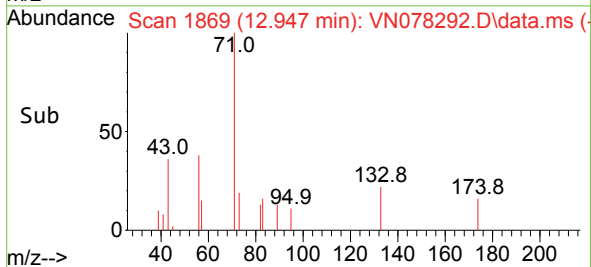
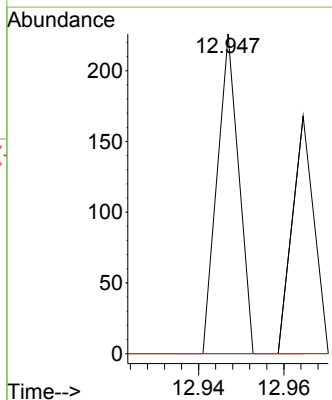
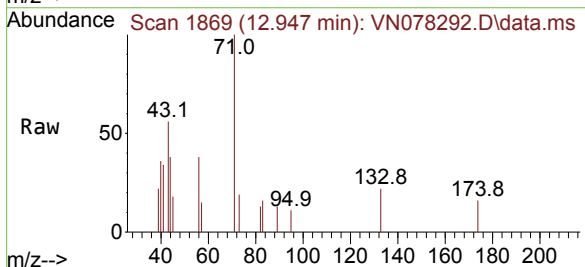
Instrument :
MSVOA_N
ClientSampleId :
WC-16

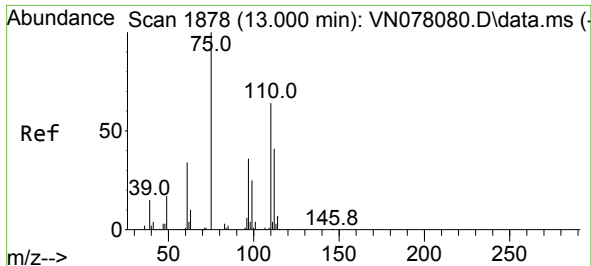
Tgt Ion: 43	Resp:	2994
Ion Ratio	Lower	Upper
43 100		
70 0.0	43.4	65.2#
55 7.6	21.4	32.0#
61 0.0	22.8	34.2#



#75
1,1,2,2-Tetrachloroethane
Concen: Below Cal
RT: 12.947 min Scan# 1869
Delta R.T. 0.006 min
Lab File: VN078292.D
Acq: 19 Jun 2023 20:39

Tgt Ion: 83	Resp:	80	
Ion Ratio	Lower	Upper	
83 100			
131 0.0	5.0	15.0#	
85 0.0	31.9	95.7#	

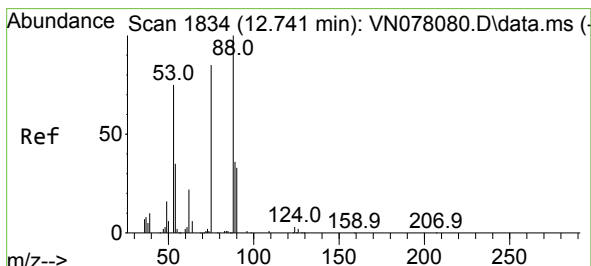
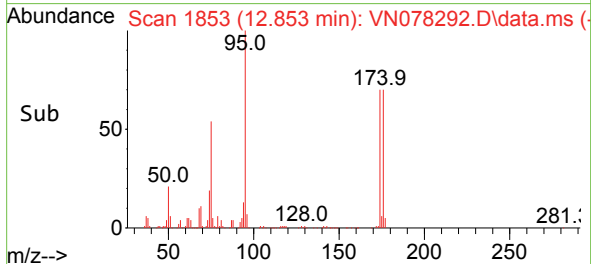
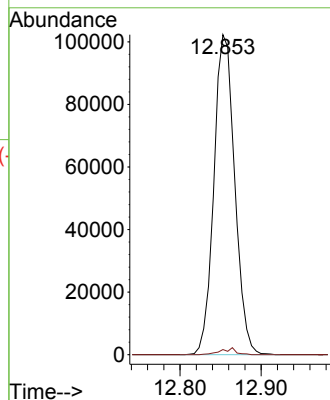
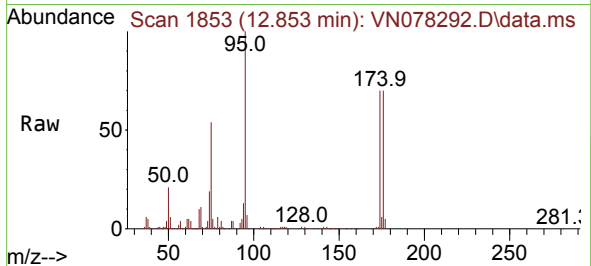




#76
1,2,3-Trichloropropane
Concen: 29.873 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. -0.147 min
Lab File: VN078292.D
Acq: 19 Jun 2023 20:39

Instrument :
MSVOA_N
ClientSampleId :
WC-16

Tgt Ion: 75 Resp: 182656
Ion Ratio Lower Upper
75 100
77 1.5 84.5 253.5#



#81
trans-1,4-Dichloro-2-butene
Concen: 91.778 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.112 min
Lab File: VN078292.D
Acq: 19 Jun 2023 20:39

Tgt Ion: 75 Resp: 182656
Ion Ratio Lower Upper
75 100
53 0.0 67.4 101.2#
89 0.0 38.8 58.2#

