

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN062123\
 Data File : VN078333.D
 Acq On : 21 Jun 2023 19:35
 Operator : JC\MD
 Sample : 03337-08
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 WC-9

Quant Time: Jun 22 04:54:43 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)

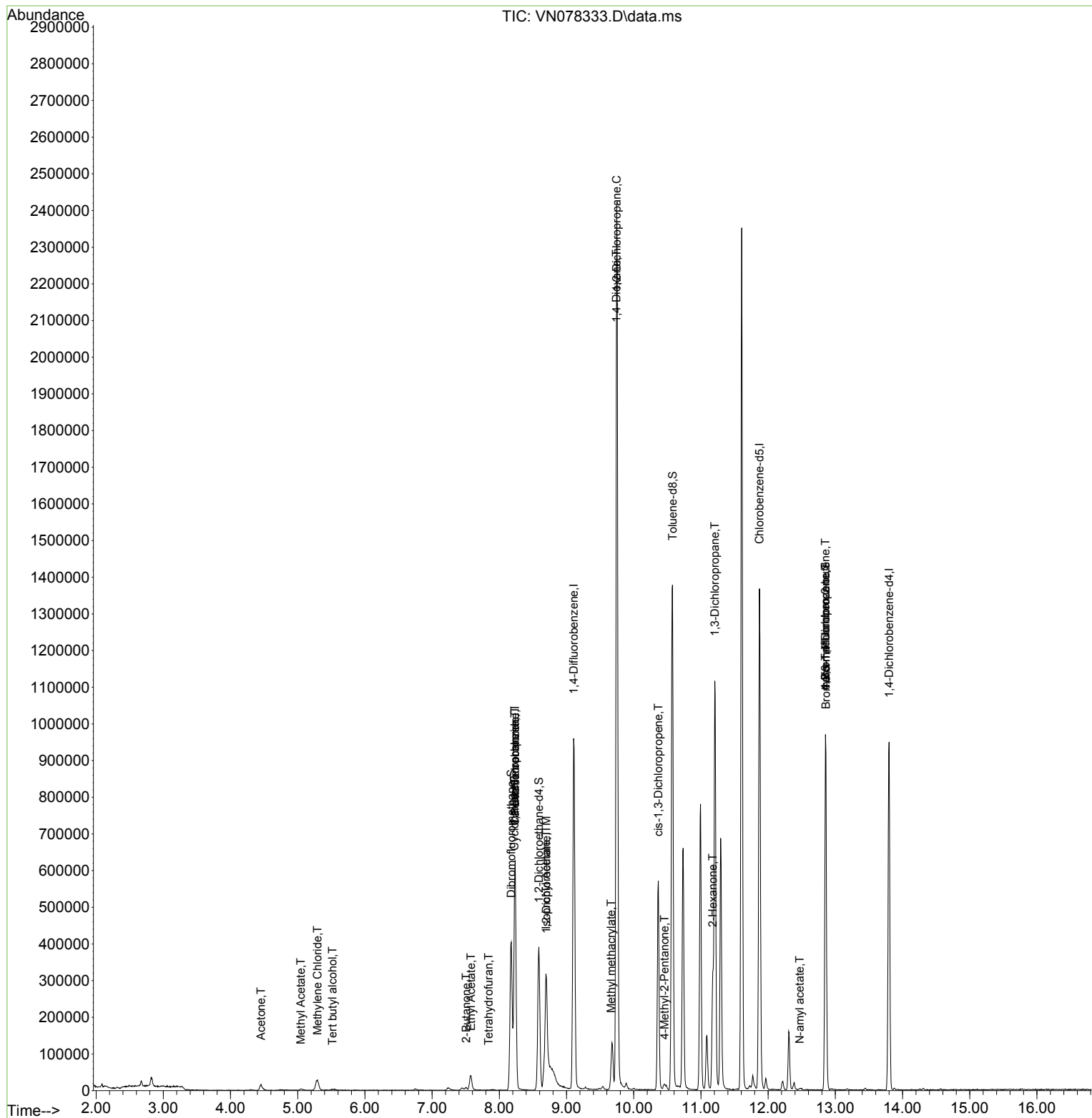
Internal Standards						
1) Pentafluorobenzene	8.236	168	453342	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	853319	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.871	117	810462	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.800	152	264272	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.588	65	319267	52.820	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 105.640%			
35) Dibromofluoromethane	8.177	113	296053	54.871	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 109.740%			
50) Toluene-d8	10.577	98	1003909	48.265	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 96.540%			
62) 4-Bromofluorobenzene	12.853	95	338078	52.284	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 104.560%			
Target Compounds						Qvalue
3) Chloromethane	2.365	50	749	Below Cal	#	86
11) Tert butyl alcohol	5.518	59	2570	3.079	ug/l #	72
16) Acetone	4.453	43	26126	15.017	ug/l	99
18) Methyl Acetate	5.048	43	6871	0.858	ug/l #	73
20) Methylene Chloride	5.295	84	23259	4.046	ug/l #	86
25) 2-Butanone	7.506	43	9778	3.655	ug/l #	77
29) Tetrahydrofuran	7.841	42	505	0.282	ug/l #	20
31) Cyclohexane	8.224	56	9682	1.249	ug/l #	49
36) 1,1-Dichloropropene	8.230	75	37088	4.792	ug/l #	50
37) Ethyl Acetate	7.577	43	60977	10.086	ug/l	97
38) Carbon Tetrachloride	8.230	117	48489	5.934	ug/l #	15
42) 1,2-Dichloroethane	8.700	62	2976	0.376	ug/l #	73
43) Isopropyl Acetate	8.694	43	433189	37.466	ug/l #	73
45) 1,2-Dichloropropane	9.747	63	3580	0.623	ug/l #	45
48) Methyl methacrylate	9.665	41	8641	1.781	ug/l #	32
49) 1,4-Dioxane	9.741	88	578	5.668	ug/l #	1
51) 4-Methyl-2-Pentanone	10.459	43	9957	1.635	ug/l	92
54) cis-1,3-Dichloropropene	10.365	75	104220	11.510	ug/l #	69
57) 1,3-Dichloropropane	11.206	76	13052	1.401	ug/l #	42
59) 2-Hexanone	11.177	43	239147	56.410	ug/l #	19
71) Bromoform	12.859	173	2691	0.653	ug/l #	1
74) N-amyl acetate	12.471	43	3306	0.402	ug/l #	38
75) 1,1,2,2-Tetrachloroethane	12.971	83	135	Below Cal	#	26
76) 1,2,3-Trichloropropane	12.853	75	179193	28.682	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.853	75	179193	88.121	ug/l #	15

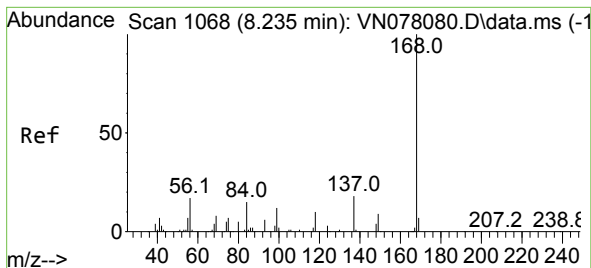
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 8.236 min Scan# 1

Delta R.T. 0.001 min

Lab File: VN078333.D

Acq: 21 Jun 2023 19:35

Instrument :

MSVOA_N

ClientSampleId :

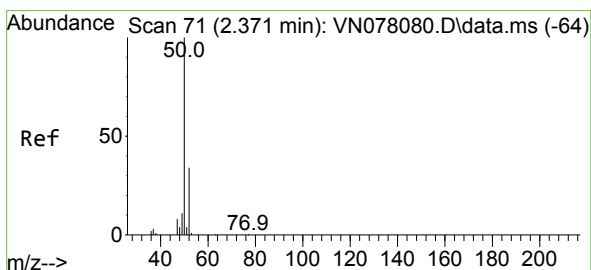
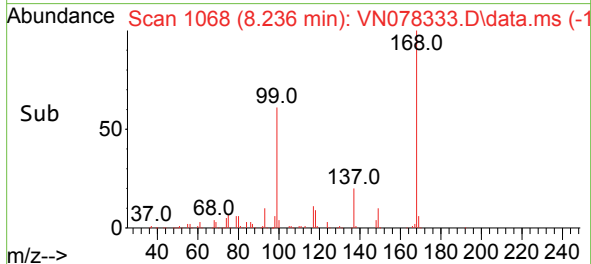
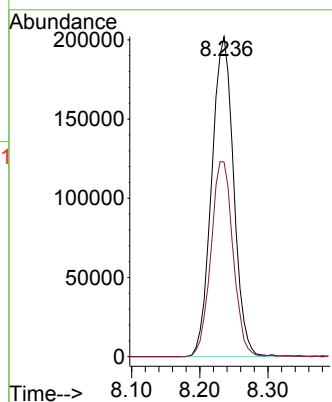
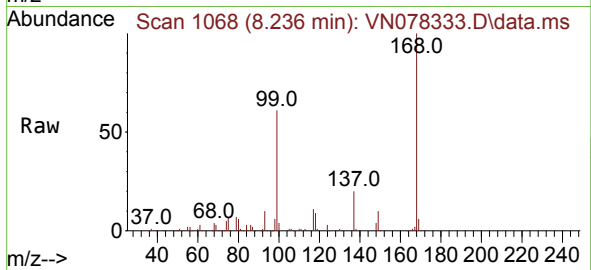
WC-9

Tgt Ion:168 Resp: 453342

Ion Ratio Lower Upper

168 100

99 60.8 53.0 79.6



#3

Chloromethane

Concen: Below Cal

RT: 2.365 min Scan# 70

Delta R.T. -0.006 min

Lab File: VN078333.D

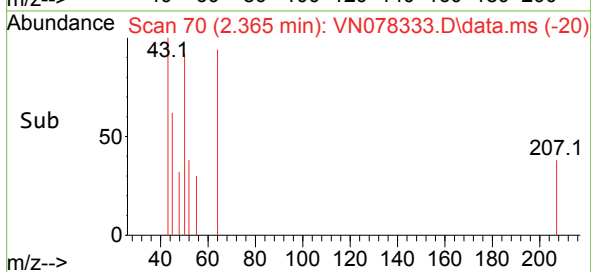
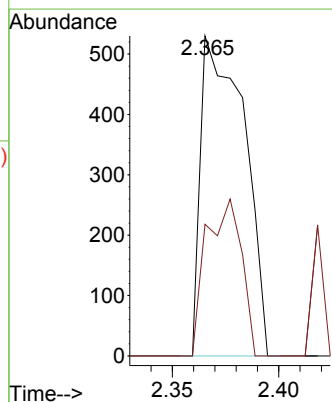
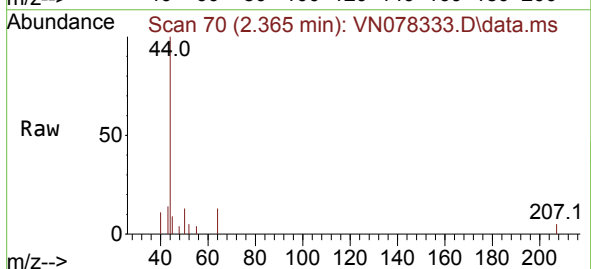
Acq: 21 Jun 2023 19:35

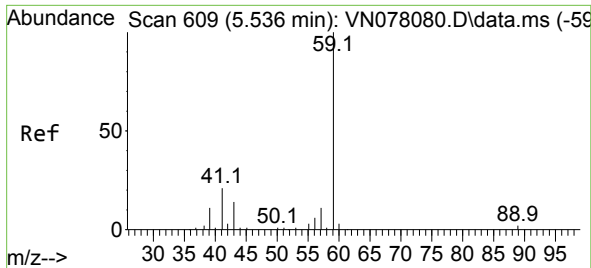
Tgt Ion: 50 Resp: 749

Ion Ratio Lower Upper

50 100

52 41.1 26.5 39.7#

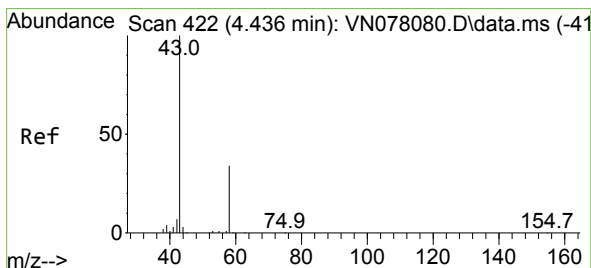
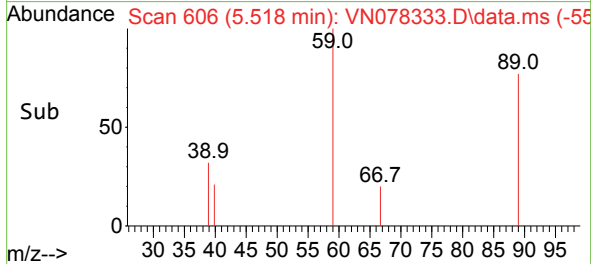
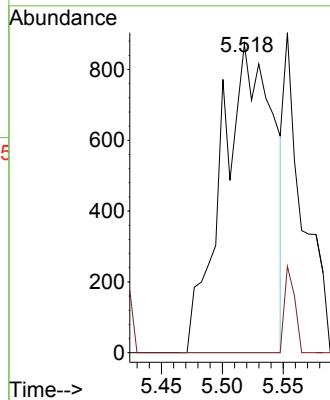
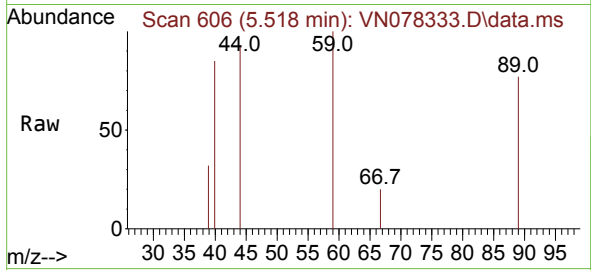




#11
Tert butyl alcohol
Concen: 3.079 ug/l
RT: 5.518 min Scan# 609
Delta R.T. -0.018 min
Lab File: VN078333.D
Acq: 21 Jun 2023 19:35

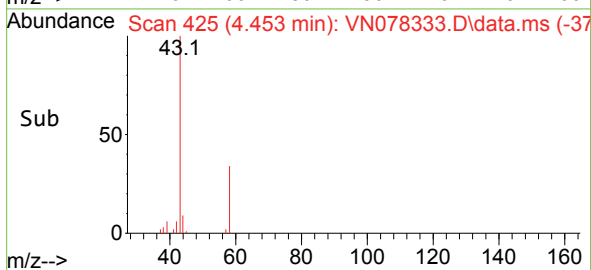
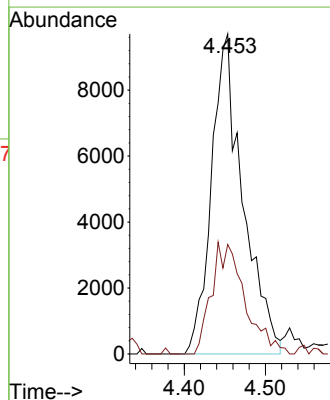
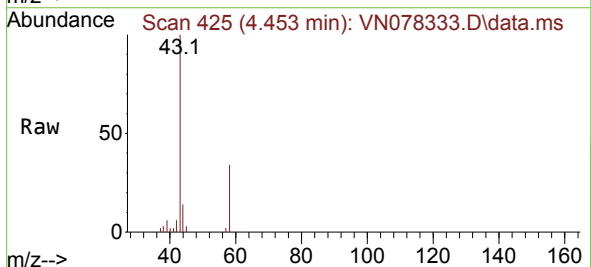
Instrument :
MSVOA_N
ClientSampleId :
WC-9

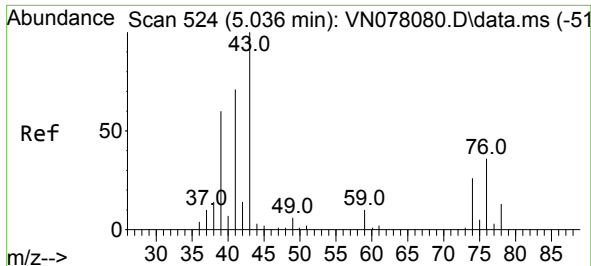
Tgt Ion: 59 Resp: 2570
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.4#



#16
Acetone
Concen: 15.017 ug/l
RT: 4.453 min Scan# 425
Delta R.T. 0.018 min
Lab File: VN078333.D
Acq: 21 Jun 2023 19:35

Tgt Ion: 43 Resp: 26126
Ion Ratio Lower Upper
43 100
58 34.2 28.0 42.0

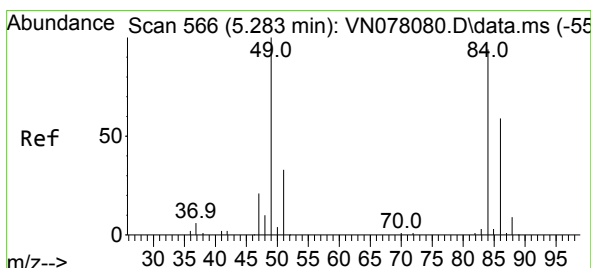
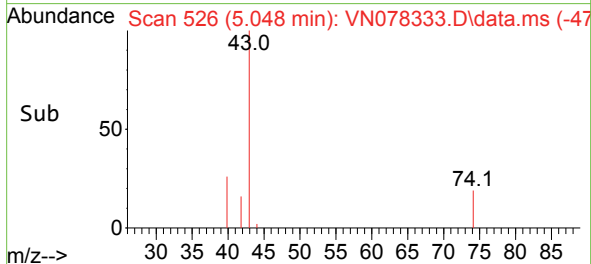
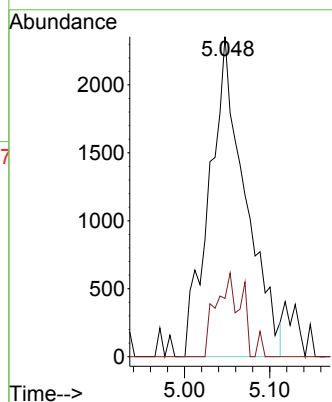
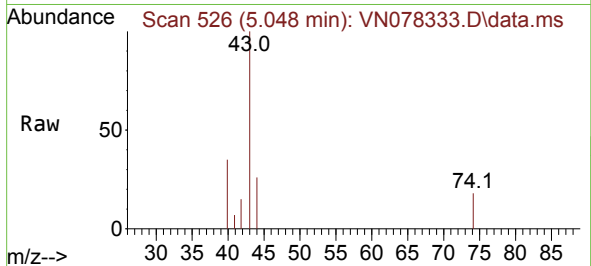




#18
Methyl Acetate
Concen: 0.858 ug/l
RT: 5.048 min Scan# 51
Delta R.T. 0.012 min
Lab File: VN078333.D
Acq: 21 Jun 2023 19:35

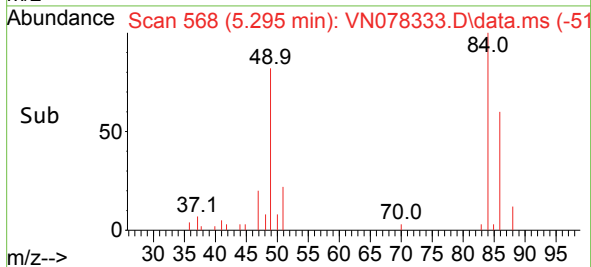
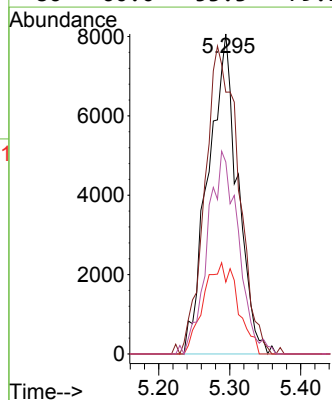
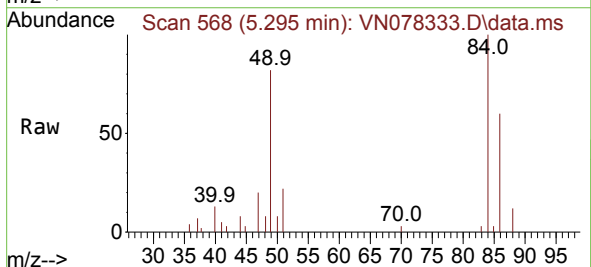
Instrument :
MSVOA_N
ClientSampleId :
WC-9

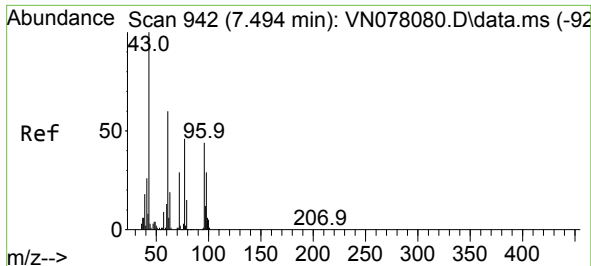
Tgt Ion: 43 Resp: 6871
Ion Ratio Lower Upper
43 100
74 17.8 26.2 39.4#



#20
Methylene Chloride
Concen: 4.046 ug/l
RT: 5.295 min Scan# 568
Delta R.T. 0.012 min
Lab File: VN078333.D
Acq: 21 Jun 2023 19:35

Tgt Ion: 84 Resp: 23259
Ion Ratio Lower Upper
84 100
49 81.8 79.7 119.5
51 22.5 25.2 37.8#
86 60.0 53.3 79.9

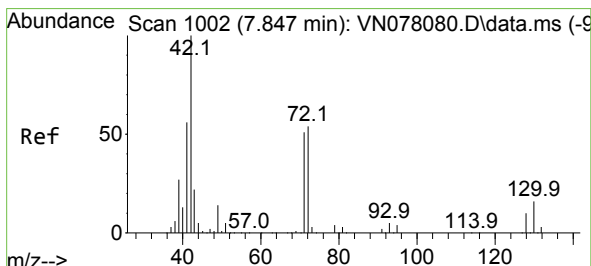
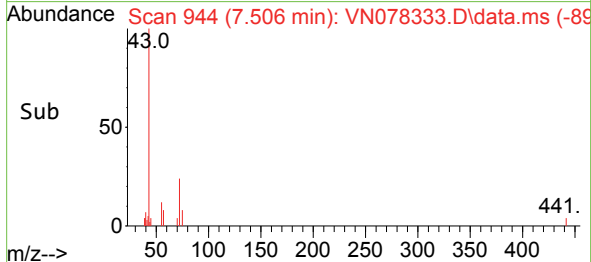
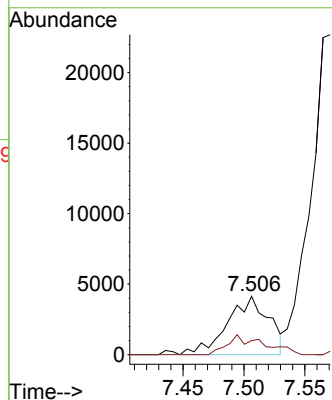
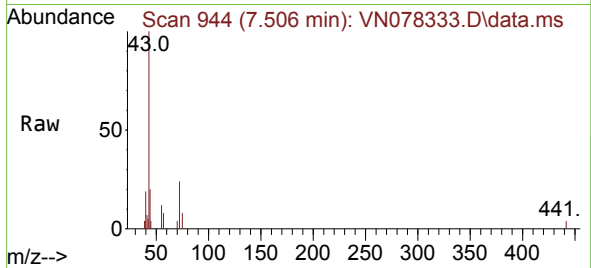




#25
2-Butanone
Concen: 3.655 ug/l
RT: 7.506 min Scan# 94
Delta R.T. 0.012 min
Lab File: VN078333.D
Acq: 21 Jun 2023 19:35

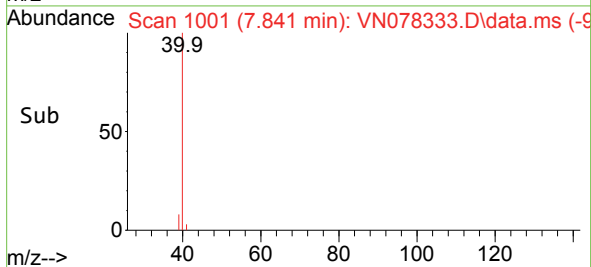
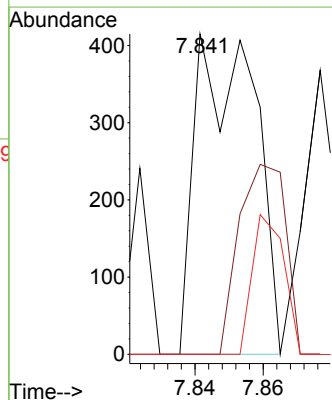
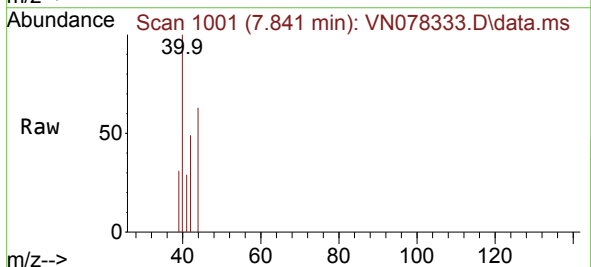
Instrument :
MSVOA_N
ClientSampleId :
WC-9

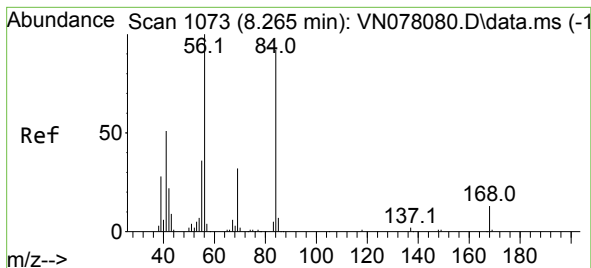
Tgt Ion: 43 Resp: 9778
Ion Ratio Lower Upper
43 100
72 24.0 30.2 45.2#



#29
Tetrahydrofuran
Concen: 0.282 ug/l
RT: 7.841 min Scan# 1001
Delta R.T. -0.006 min
Lab File: VN078333.D
Acq: 21 Jun 2023 19:35

Tgt Ion: 42 Resp: 505
Ion Ratio Lower Upper
42 100
72 0.0 49.8 74.6#
71 0.0 47.4 71.2#





#31

Cyclohexane

Concen: 1.249 ug/l

RT: 8.224 min Scan# 1066

Delta R.T. -0.041 min

Lab File: VN078333.D

Acq: 21 Jun 2023 19:35

Instrument :

MSVOA_N

ClientSampleId :

WC-9

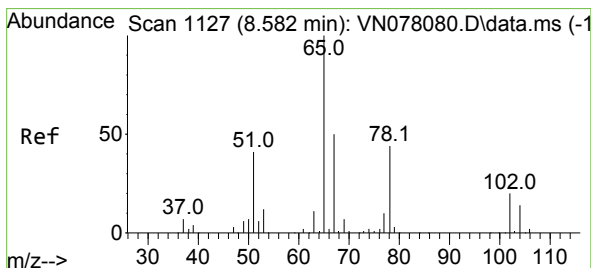
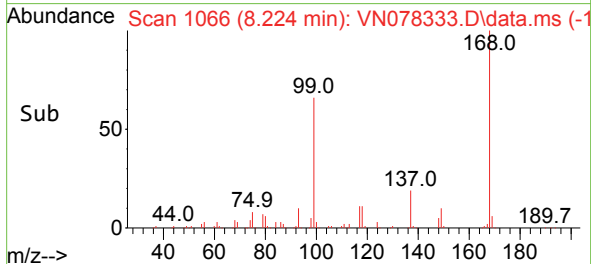
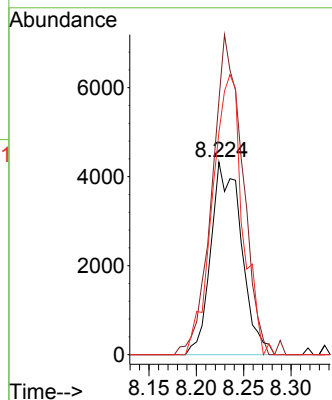
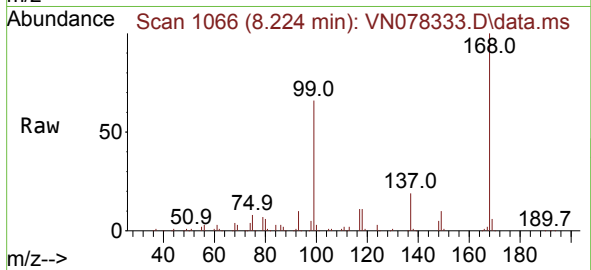
Tgt Ion: 56 Resp: 9682

Ion Ratio Lower Upper

56 100

69 128.0 26.8 40.2#

84 115.4 81.8 122.6



#33

1,2-Dichloroethane-d4

Concen: 52.820 ug/l

RT: 8.588 min Scan# 1128

Delta R.T. 0.006 min

Lab File: VN078333.D

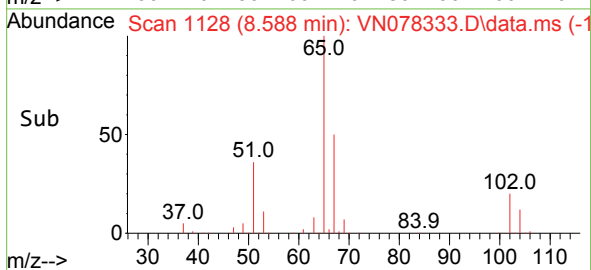
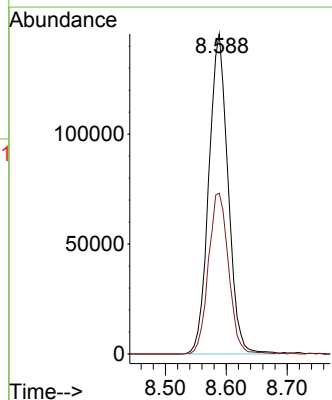
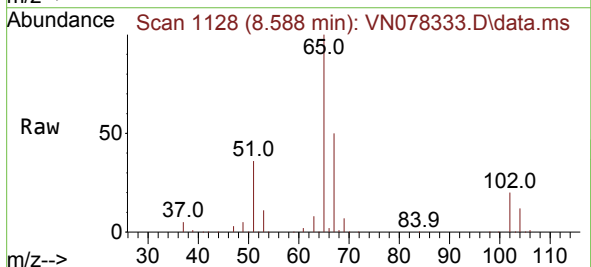
Acq: 21 Jun 2023 19:35

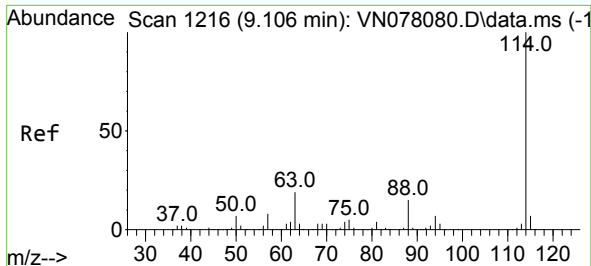
Tgt Ion: 65 Resp: 319267

Ion Ratio Lower Upper

65 100

67 52.7 0.0 106.6





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.106 min Scan# 1

Delta R.T. 0.000 min

Lab File: VN078333.D

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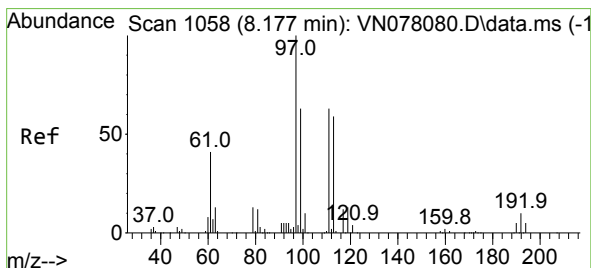
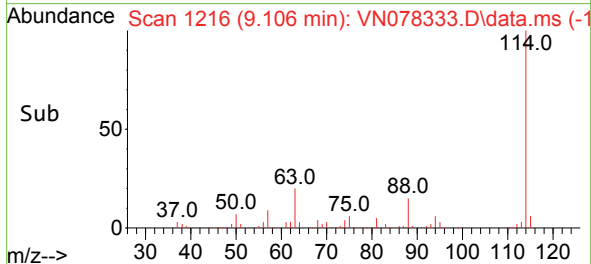
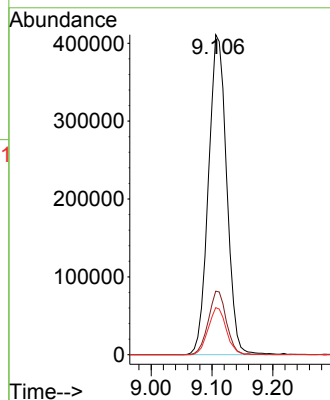
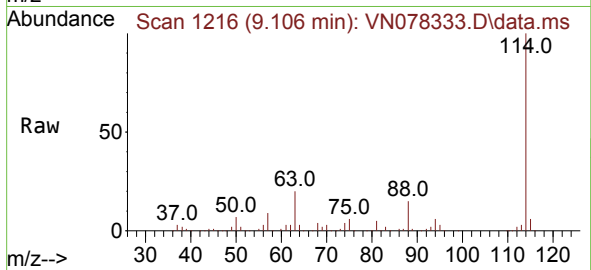
Tgt Ion:114 Resp: 853319

Ion Ratio Lower Upper

114 100

63 19.9 0.0 36.4

88 14.7 0.0 30.6



#35

Dibromofluoromethane

Concen: 54.871 ug/l

RT: 8.177 min Scan# 1058

Delta R.T. 0.000 min

Lab File: VN078333.D

Acq: 21 Jun 2023 19:35

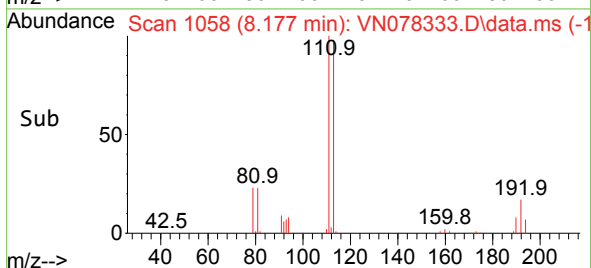
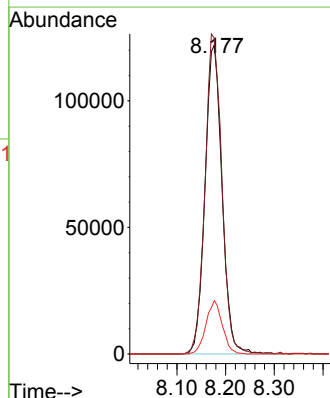
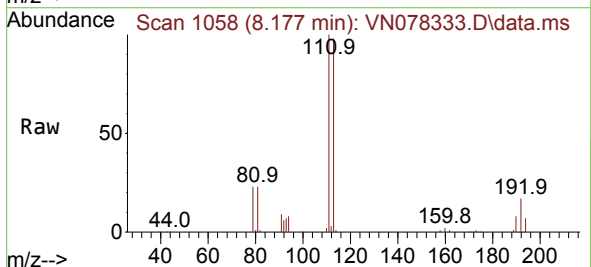
Tgt Ion:113 Resp: 296053

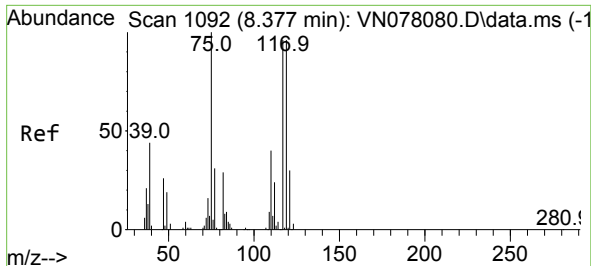
Ion Ratio Lower Upper

113 100

111 102.5 82.6 123.8

192 16.6 12.7 19.1





#36

1,1-Dichloropropene

Concen: 4.792 ug/l

RT: 8.230 min Scan# 1092

Delta R.T. -0.147 min

Lab File: VN078333.D

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ClientSampleId :

WC-9

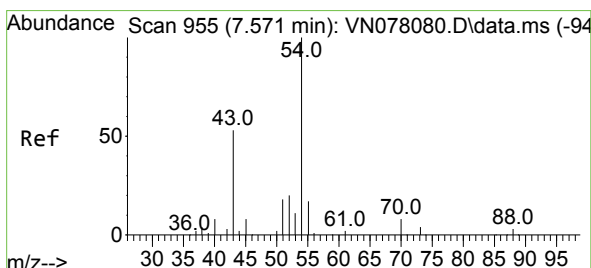
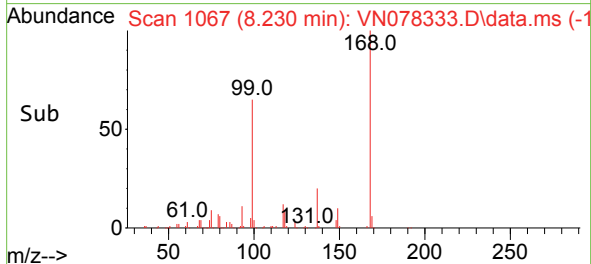
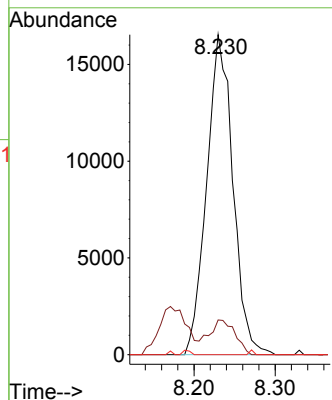
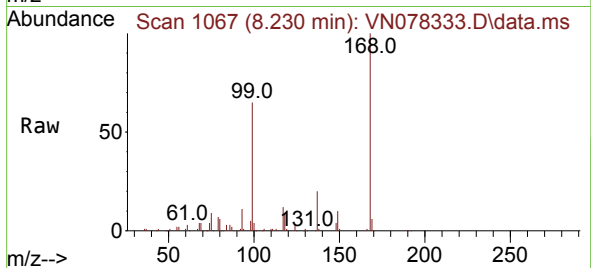
Tgt Ion: 75 Resp: 37088

Ion Ratio Lower Upper

75 100

110 10.7 19.1 57.3#

77 0.0 25.0 37.4#



#37

Ethyl Acetate

Concen: 10.086 ug/l

RT: 7.577 min Scan# 956

Delta R.T. 0.006 min

Lab File: VN078333.D

Acq: 21 Jun 2023 19:35

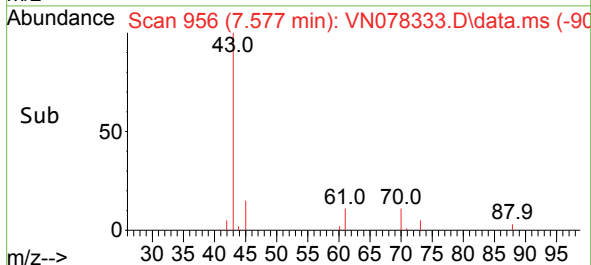
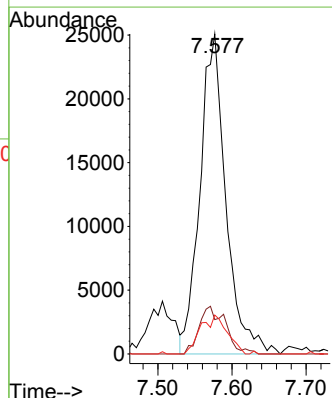
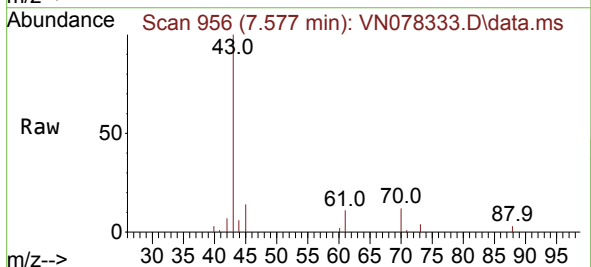
Tgt Ion: 43 Resp: 60977

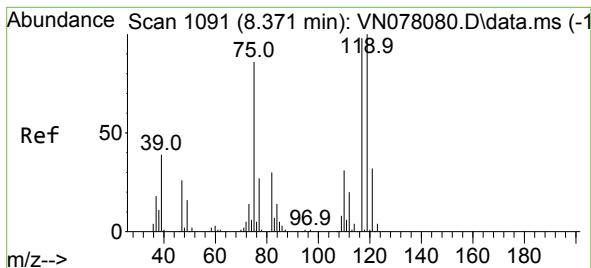
Ion Ratio Lower Upper

43 100

61 15.1 13.2 19.8

70 12.5 11.3 16.9





#38

Carbon Tetrachloride

Concen: 5.934 ug/l

RT: 8.230 min Scan# 1107

Delta R.T. -0.141 min

Lab File: VN078333.D

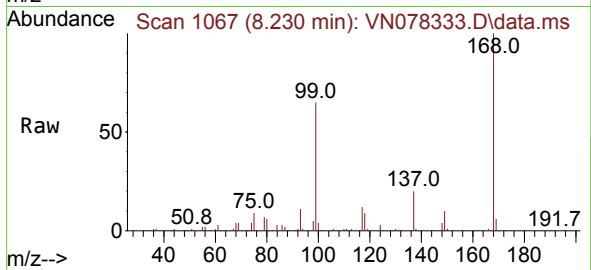
Acq: 21 Jun 2023 19:35

Instrument :

MSVOA_N

ClientSampleId :

WC-9



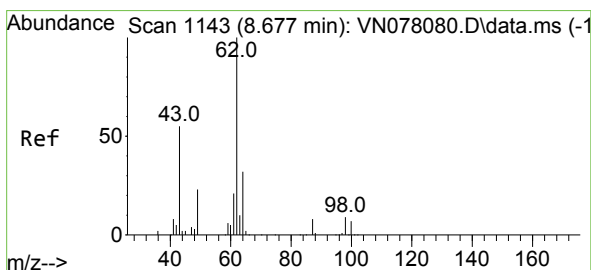
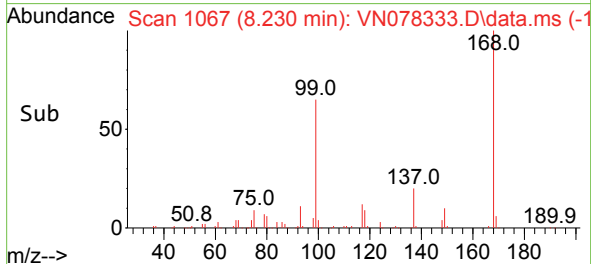
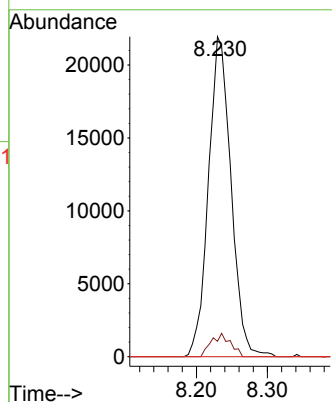
Tgt Ion:117 Resp: 48489

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: 0.376 ug/l

RT: 8.700 min Scan# 1147

Delta R.T. 0.024 min

Lab File: VN078333.D

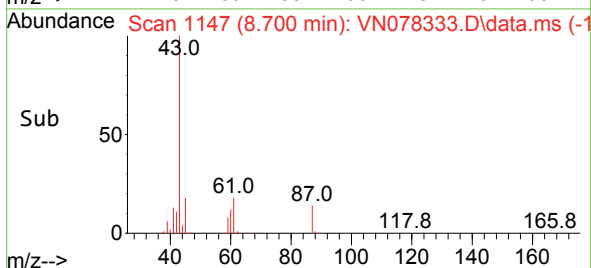
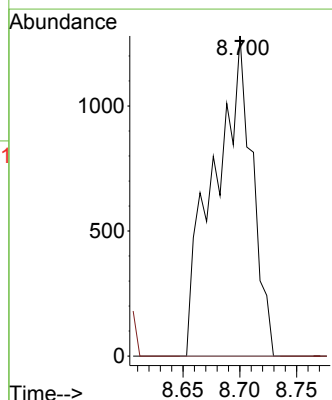
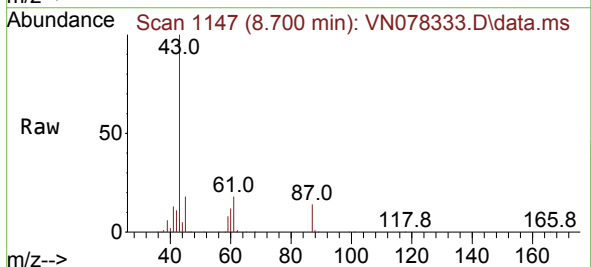
Acq: 21 Jun 2023 19:35

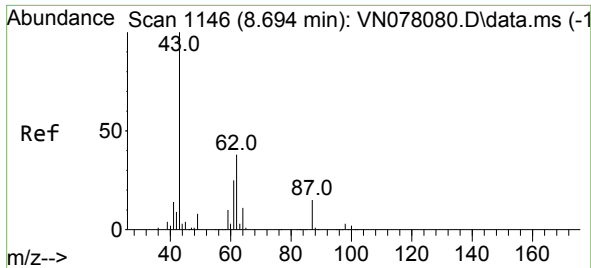
Tgt Ion: 62 Resp: 2976

Ion Ratio Lower Upper

62 100

98 0.0 0.0 19.8

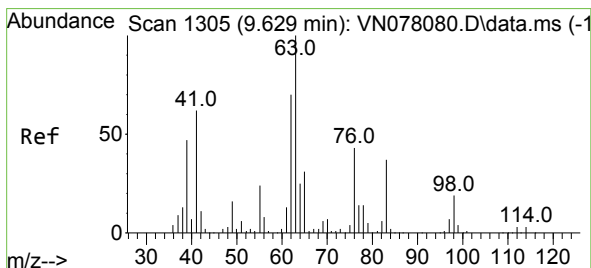
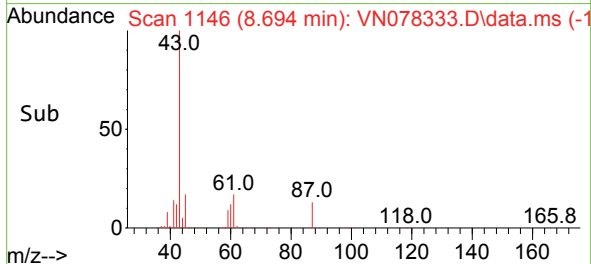
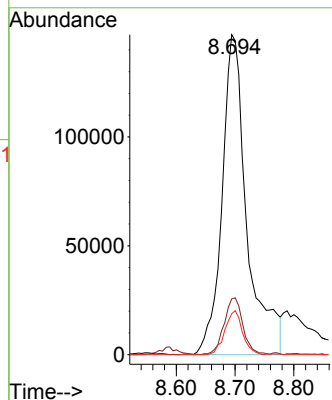
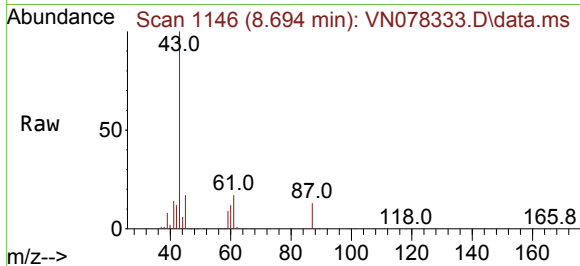




#43
Isopropyl Acetate
Concen: 37.466 ug/l
RT: 8.694 min Scan# 1146
Delta R.T. 0.000 min
Lab File: VN078333.D
Acq: 21 Jun 2023 19:35

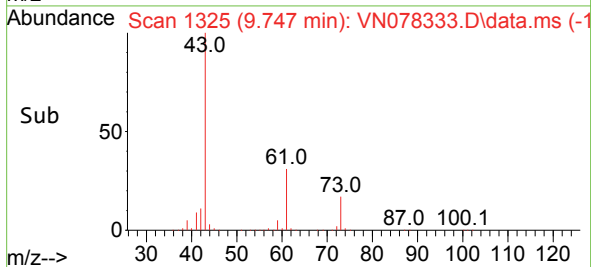
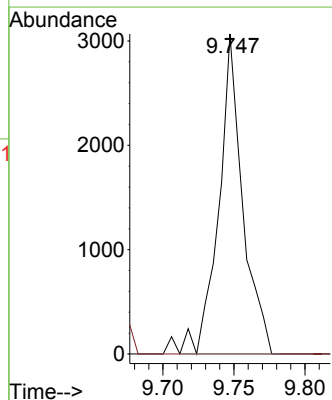
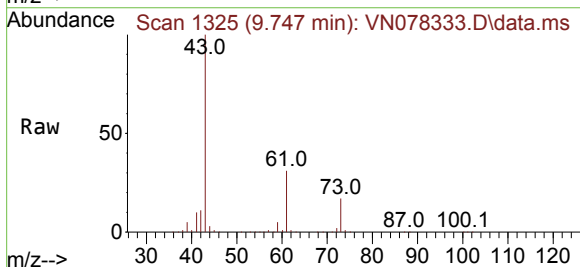
Instrument :
MSVOA_N
ClientSampleId :
WC-9

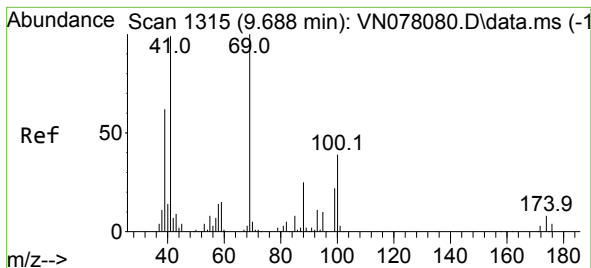
Tgt Ion: 43 Resp: 433189
Ion Ratio Lower Upper
43 100
61 13.5 24.7 37.1#
87 9.7 14.6 21.8#



#45
1,2-Dichloropropane
Concen: 0.623 ug/l
RT: 9.747 min Scan# 1325
Delta R.T. 0.118 min
Lab File: VN078333.D
Acq: 21 Jun 2023 19:35

Tgt Ion: 63 Resp: 3580
Ion Ratio Lower Upper
63 100
65 0.0 23.9 35.9#





#48

Methyl methacrylate

Concen: 1.781 ug/l

RT: 9.665 min Scan# 1311

Delta R.T. -0.023 min

Lab File: VN078333.D

Acq: 21 Jun 2023 19:35

Instrument :

MSVOA_N

ClientSampleId :

WC-9

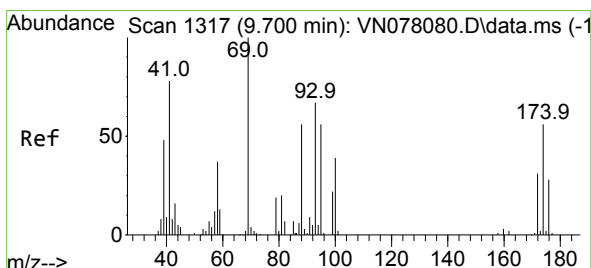
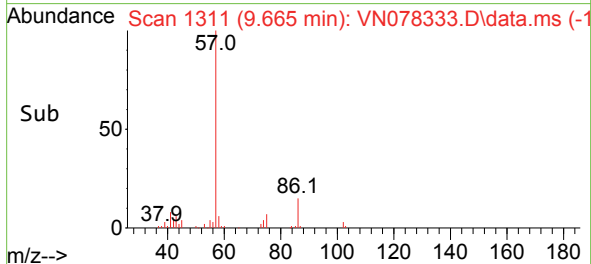
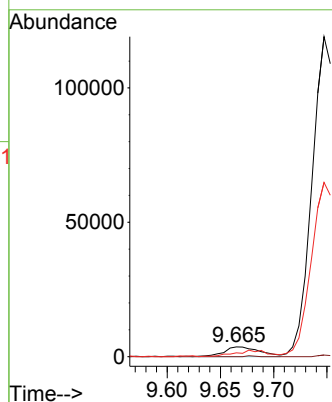
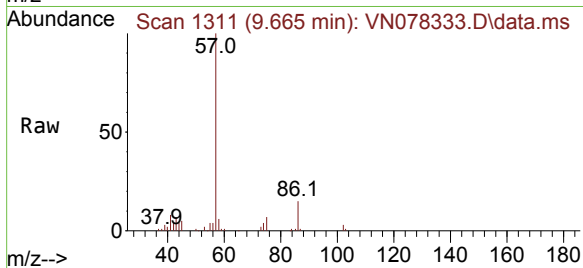
Tgt Ion: 41 Resp: 8641

Ion Ratio Lower Upper

41 100

69 2.2 90.4 135.6#

39 59.8 54.6 81.8



#49

1,4-Dioxane

Concen: 5.668 ug/l

RT: 9.741 min Scan# 1324

Delta R.T. 0.041 min

Lab File: VN078333.D

Acq: 21 Jun 2023 19:35

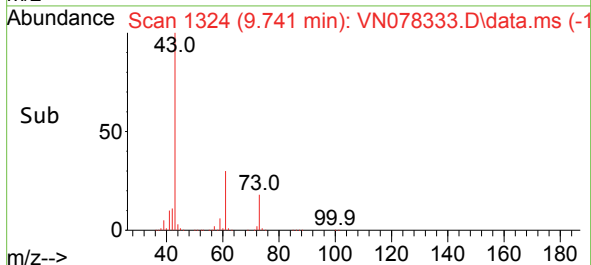
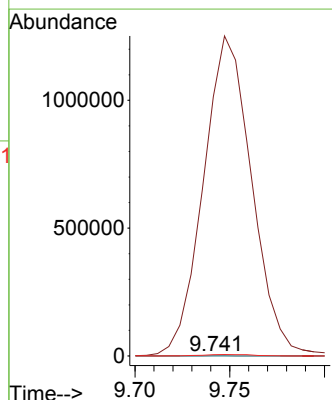
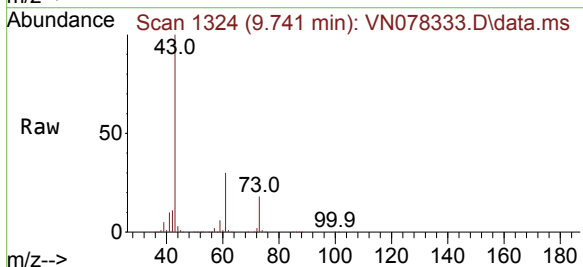
Tgt Ion: 88 Resp: 578

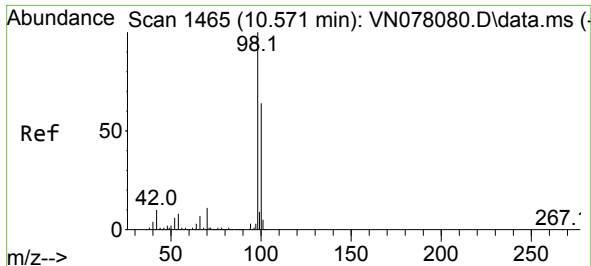
Ion Ratio Lower Upper

88 100

43 387967.6 17.0 25.6#

58 1958.1 47.0 70.4#

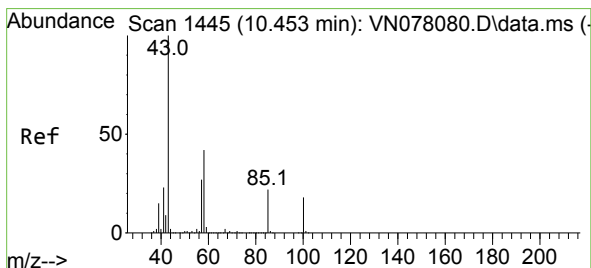
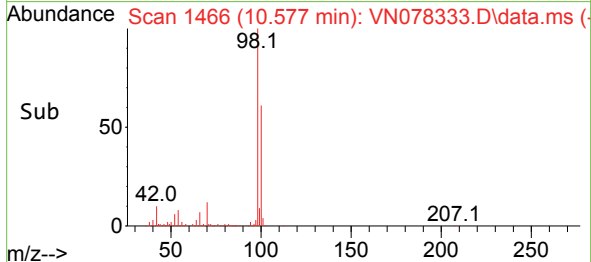
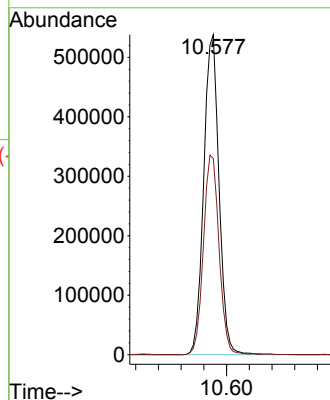
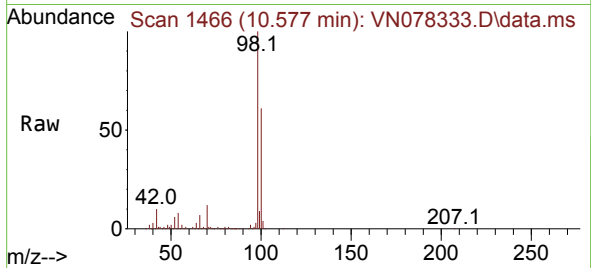




#50
Toluene-d8
Concen: 48.265 ug/l
RT: 10.577 min Scan# 1465
Delta R.T. 0.006 min
Lab File: VN078333.D
Acq: 21 Jun 2023 19:35

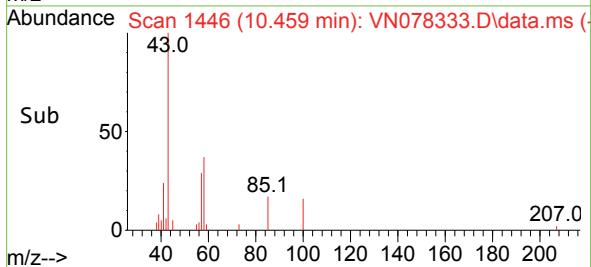
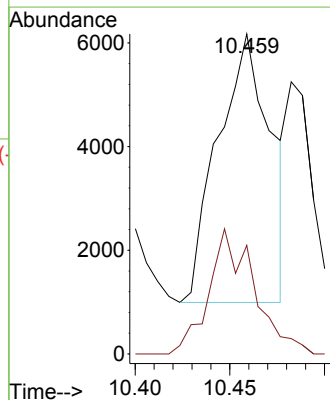
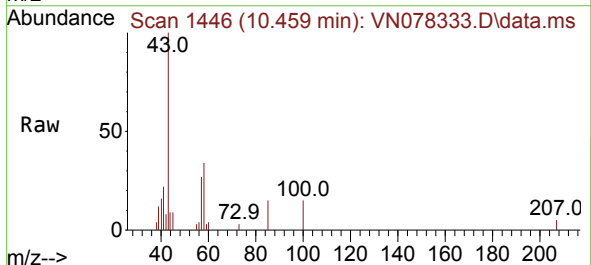
Instrument :
MSVOA_N
ClientSampleId :
WC-9

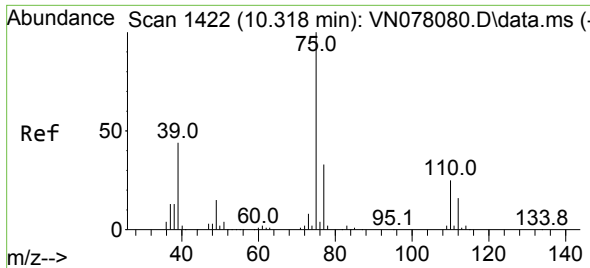
Tgt Ion: 98 Resp: 1003909
Ion Ratio Lower Upper
98 100
100 63.6 52.0 78.0



#51
4-Methyl-2-Pentanone
Concen: 1.635 ug/l
RT: 10.459 min Scan# 1446
Delta R.T. 0.006 min
Lab File: VN078333.D
Acq: 21 Jun 2023 19:35

Tgt Ion: 43 Resp: 9957
Ion Ratio Lower Upper
43 100
58 40.2 36.6 54.8

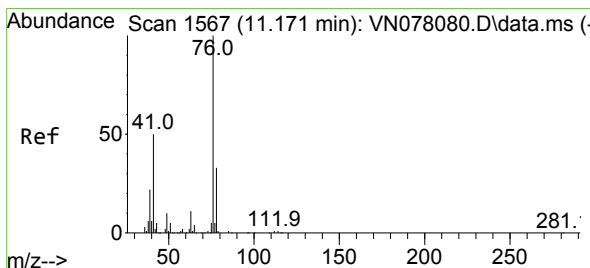
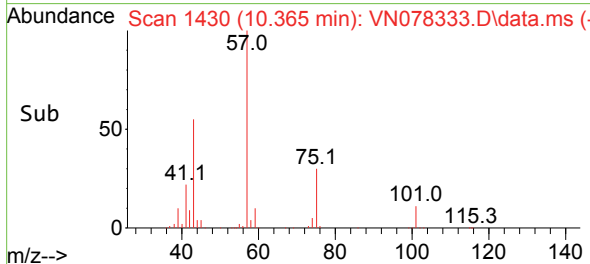
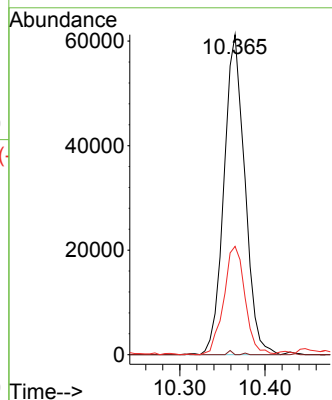
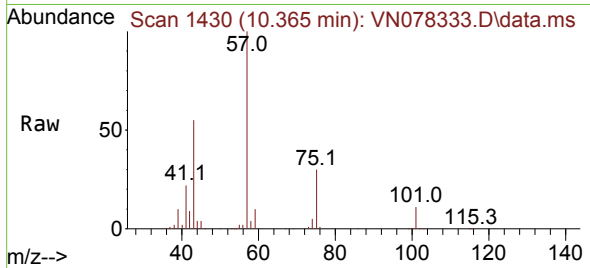




#54
 cis-1,3-Dichloropropene
 Concen: 11.510 ug/l
 RT: 10.365 min Scan# 14
 Delta R.T. 0.047 min
 Lab File: VN078333.D
 Acq: 21 Jun 2023 19:35

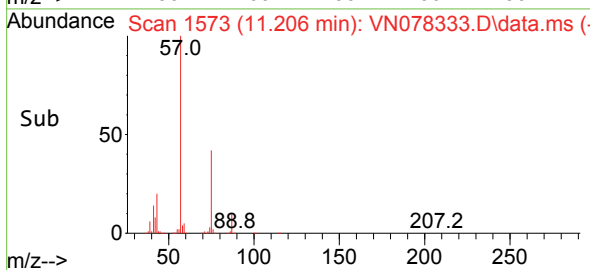
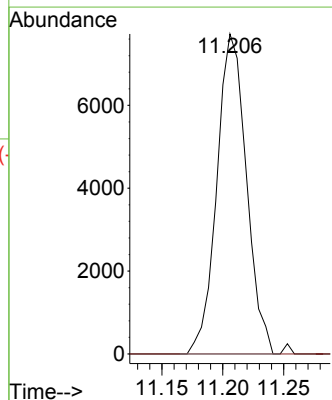
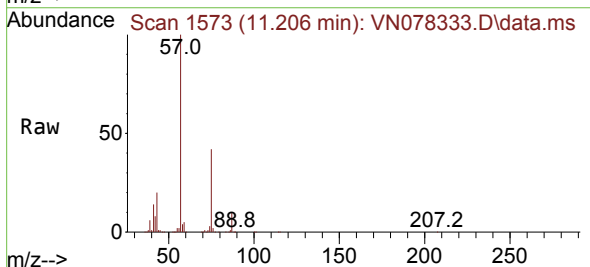
Instrument :
 MSVOA_N
 ClientSampleId :
 WC-9

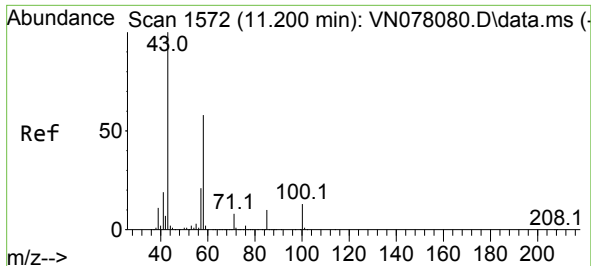
Tgt Ion: 75 Resp: 104220
 Ion Ratio Lower Upper
 75 100
 77 0.0 26.1 39.1#
 39 33.8 31.6 47.4



#57
 1,3-Dichloropropane
 Concen: 1.401 ug/l
 RT: 11.206 min Scan# 1573
 Delta R.T. 0.035 min
 Lab File: VN078333.D
 Acq: 21 Jun 2023 19:35

Tgt Ion: 76 Resp: 13052
 Ion Ratio Lower Upper
 76 100
 78 0.0 26.1 39.1#

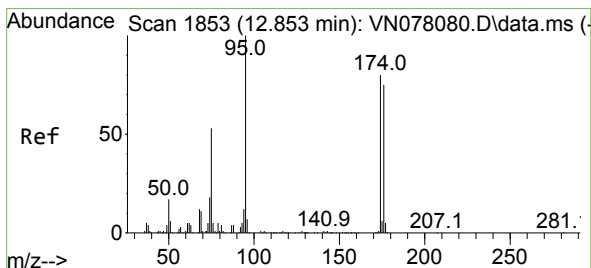
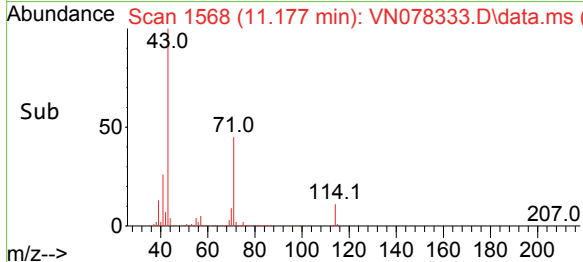
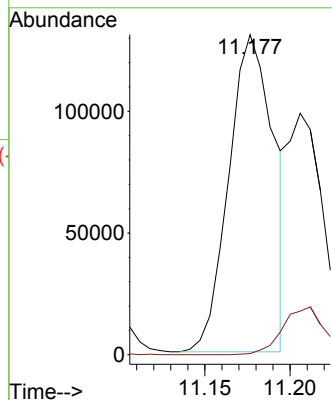
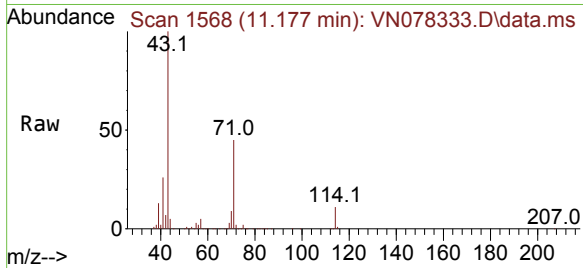




#59
2-Hexanone
Concen: 56.410 ug/l
RT: 11.177 min Scan# 1568
Delta R.T. -0.023 min
Lab File: VN078333.D
Acq: 21 Jun 2023 19:35

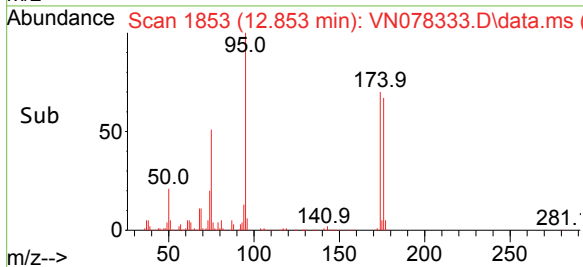
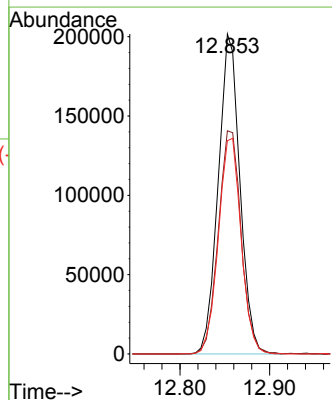
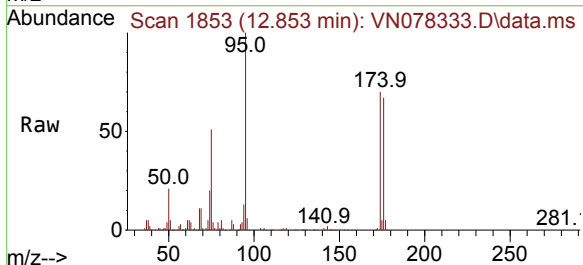
Instrument :
MSVOA_N
ClientSampleId :
WC-9

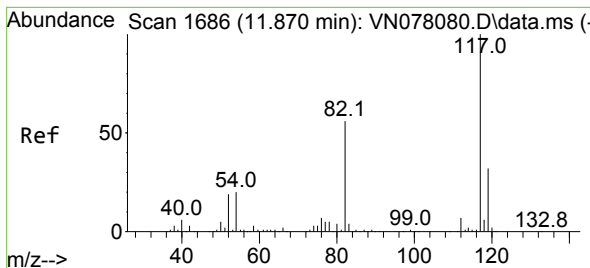
Tgt Ion: 43 Resp: 239147
Ion Ratio Lower Upper
43 100
58 0.0 31.7 95.1#



#62
4-Bromofluorobenzene
Concen: 52.284 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.000 min
Lab File: VN078333.D
Acq: 21 Jun 2023 19:35

Tgt Ion: 95 Resp: 338078
Ion Ratio Lower Upper
95 100
174 73.6 0.0 143.8
176 70.6 0.0 135.8

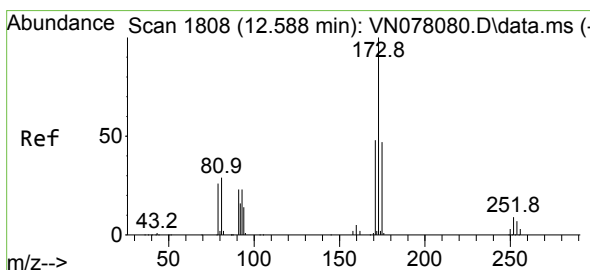
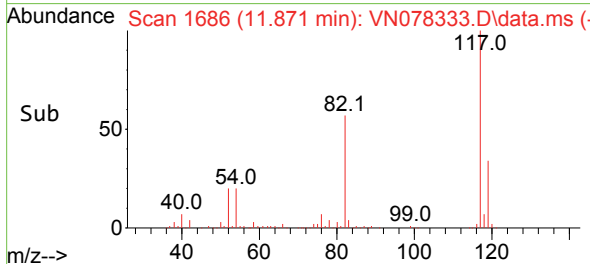
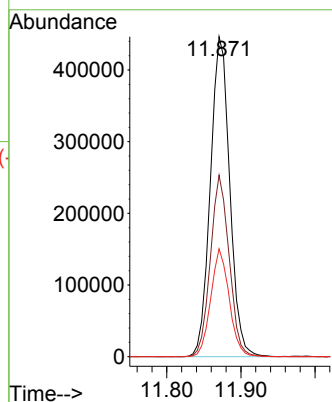
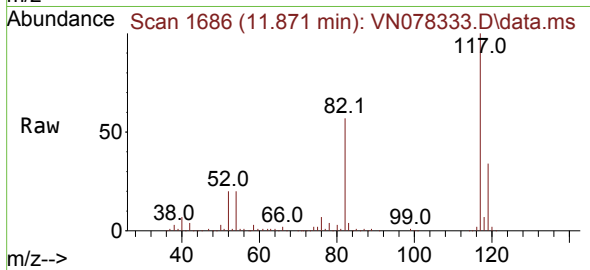




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.871 min Scan# 1170
Delta R.T. 0.000 min
Lab File: VN078333.D
Acq: 21 Jun 2023 19:35

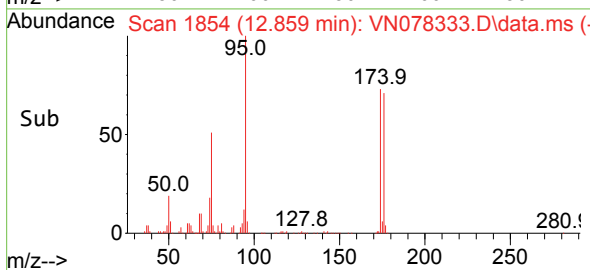
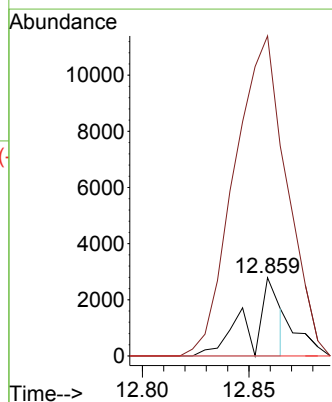
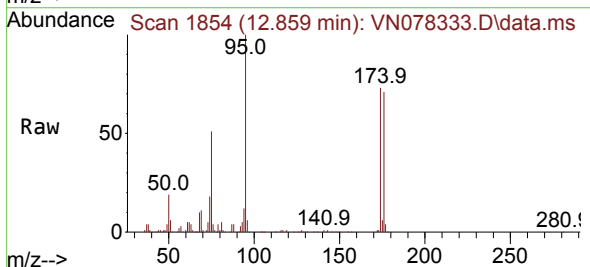
Instrument :
MSVOA_N
ClientSampleId :
WC-9

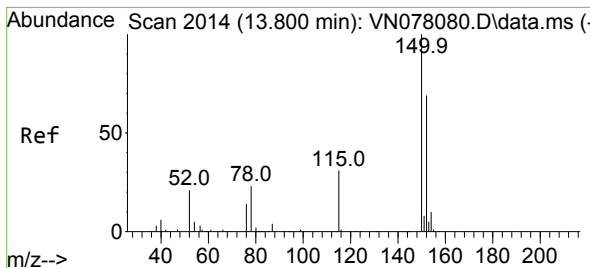
Tgt Ion:117 Resp: 810462
Ion Ratio Lower Upper
117 100
82 56.7 44.0 66.0
119 33.7 25.6 38.4



#71
Bromoform
Concen: 0.653 ug/l
RT: 12.859 min Scan# 1854
Delta R.T. 0.271 min
Lab File: VN078333.D
Acq: 21 Jun 2023 19:35

Tgt Ion:173 Resp: 2691
Ion Ratio Lower Upper
173 100
175 617.8 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: VN078333.D

Acq: 21 Jun 2023 19:35

Instrument :

MSVOA_N

ClientSampleId :

WC-9

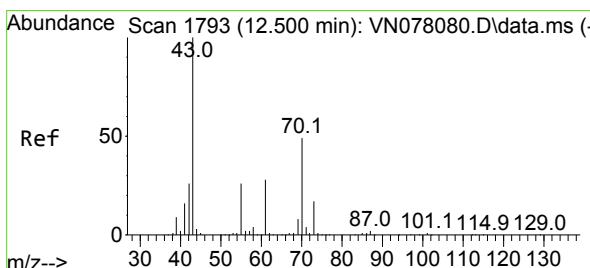
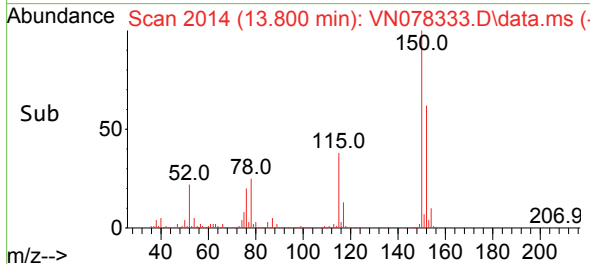
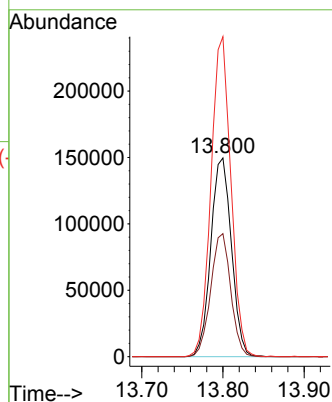
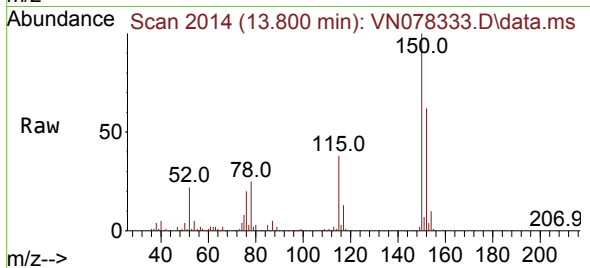
Tgt Ion:152 Resp: 264272

Ion Ratio Lower Upper

152 100

115 60.2 32.3 96.8

150 155.2 0.0 355.8



#74

N-ethyl acetate

Concen: 0.402 ug/l

RT: 12.471 min Scan# 1788

Delta R.T. -0.029 min

Lab File: VN078333.D

Acq: 21 Jun 2023 19:35

Tgt Ion: 43 Resp: 3306

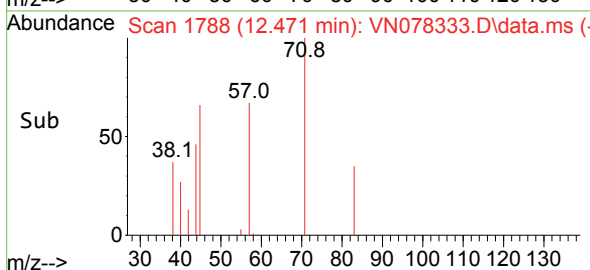
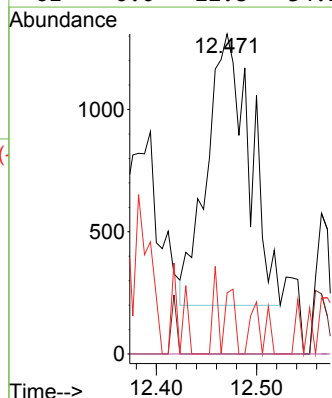
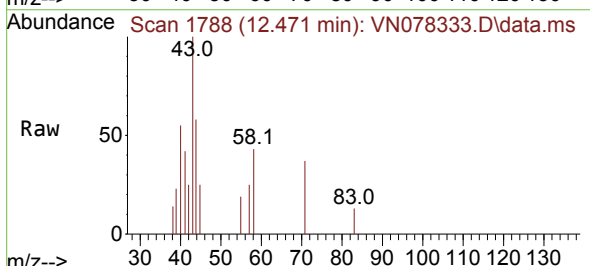
Ion Ratio Lower Upper

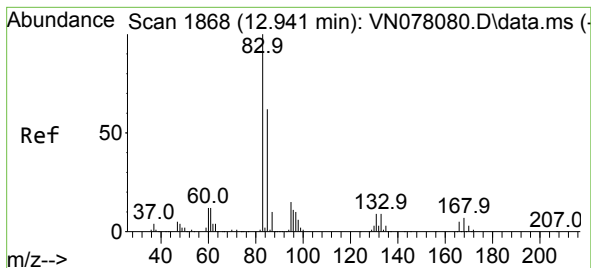
43 100

70 0.0 43.4 65.2#

55 3.8 21.4 32.0#

61 0.0 22.8 34.2#





#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 12.971 min Scan# 1873

Delta R.T. 0.030 min

Lab File: VN078333.D

Acq: 21 Jun 2023 19:35

Instrument :

MSVOA_N

ClientSampleId :

WC-9

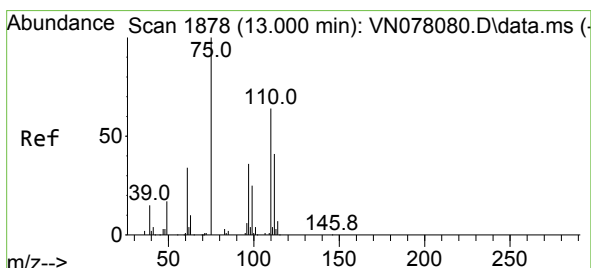
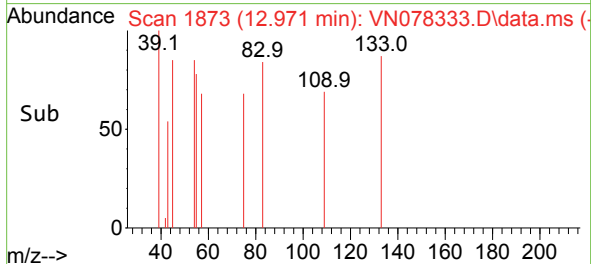
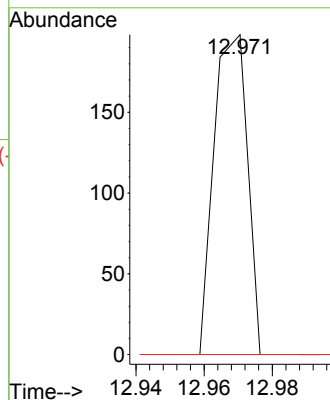
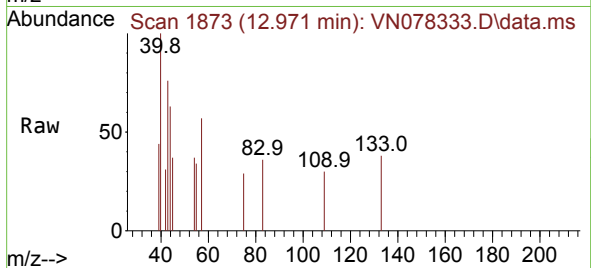
Tgt Ion: 83 Resp: 135

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: 28.682 ug/l

RT: 12.853 min Scan# 1853

Delta R.T. -0.147 min

Lab File: VN078333.D

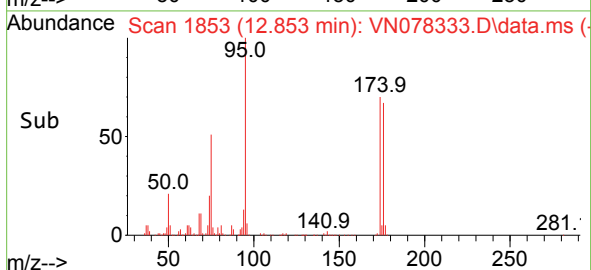
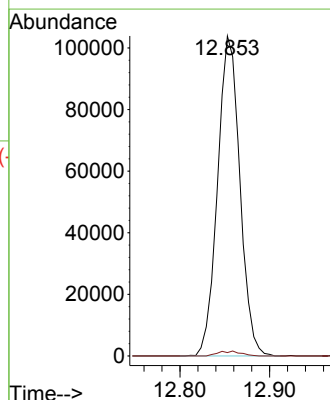
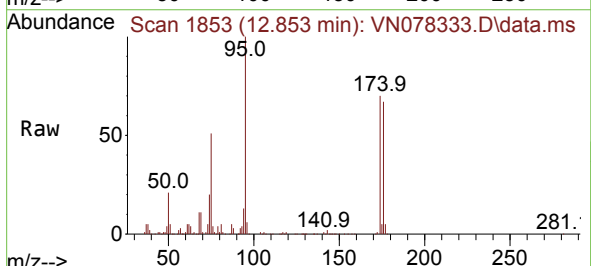
Acq: 21 Jun 2023 19:35

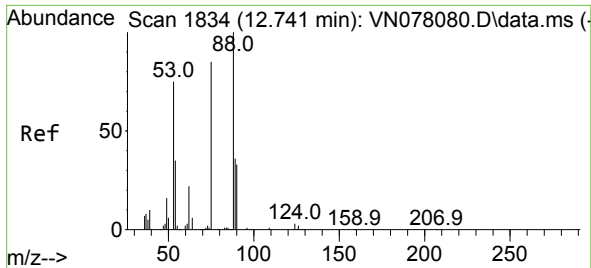
Tgt Ion: 75 Resp: 179193

Ion Ratio Lower Upper

75 100

77 1.5 84.5 253.5#





#81
 trans-1,4-Dichloro-2-butene
 Concen: 88.121 ug/l
 RT: 12.853 min Scan# 11
 Delta R.T. 0.112 min
 Lab File: VN078333.D
 Acq: 21 Jun 2023 19:35

Instrument :
 MSVOA_N
 ClientSampleId :
 WC-9

Tgt Ion: 75 Resp: 179193
 Ion Ratio Lower Upper
 75 100
 53 0.2 67.4 101.2#
 89 0.0 38.8 58.2#

