

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN090223\
 Data File : VN079151.D
 Acq On : 02 Sep 2023 18:23
 Operator : JC\MD
 Sample : 04256-08
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MW-4-6

Quant Time: Sep 04 01:08:14 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N081523W.M
 Quant Title : SW846 8260
 QLast Update : Wed Aug 16 02:42:02 2023
 Response via : Initial Calibration

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

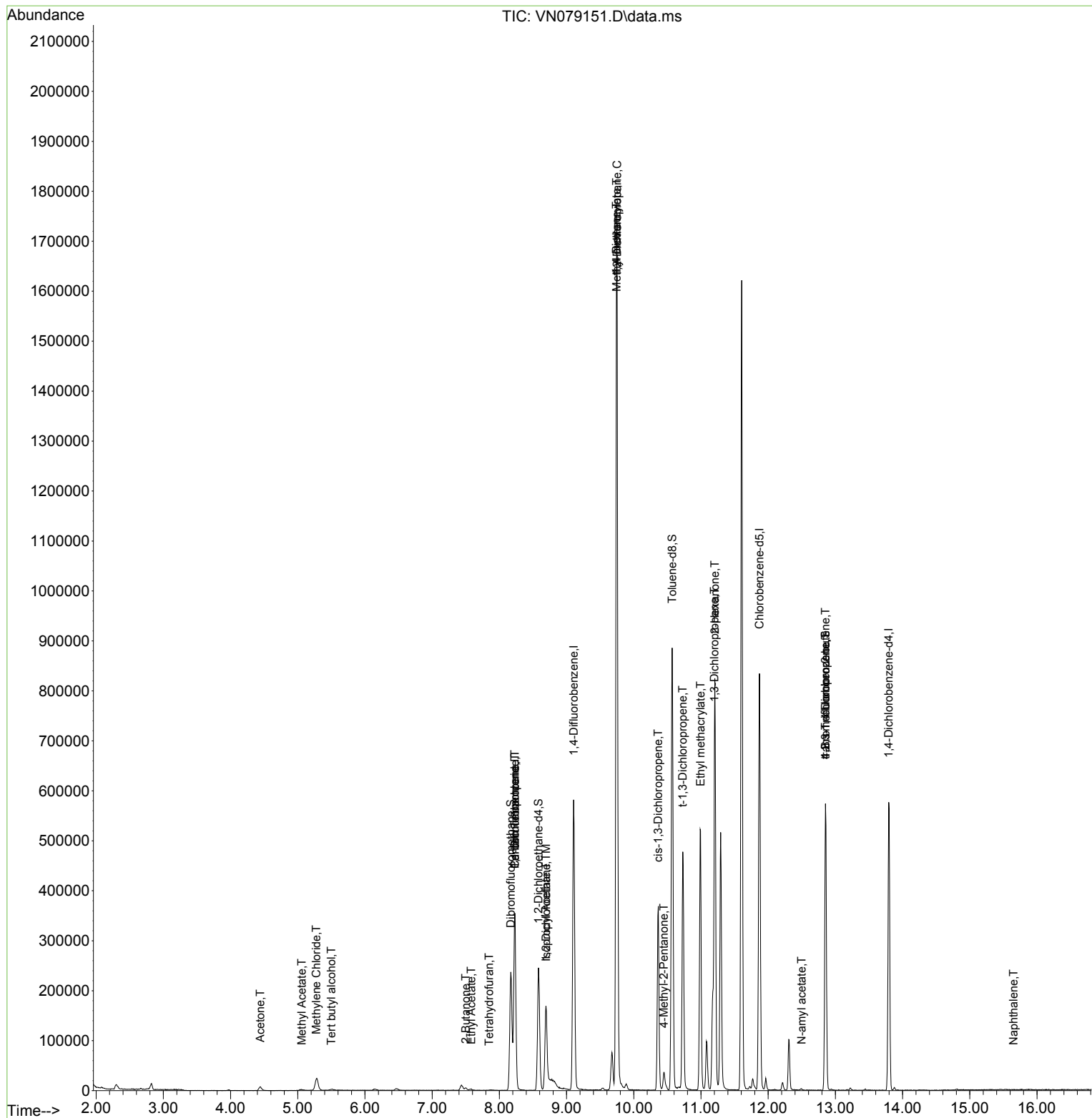
Internal Standards						
1) Pentafluorobenzene	8.230	168	263704	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	506082	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.870	117	496314	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	159508	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.582	65	199155	48.533	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	97.060%		
35) Dibromofluoromethane	8.171	113	174523	51.230	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	102.460%		
50) Toluene-d8	10.571	98	629719	49.783	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	99.560%		
62) 4-Bromofluorobenzene	12.853	95	206524	49.951	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	99.900%		
Target Compounds						Qvalue
11) Tert butyl alcohol	5.500	59	1056	1.534	ug/l #	72
16) Acetone	4.442	43	14517	8.574	ug/l #	85
18) Methyl Acetate	5.059	43	3675	0.514	ug/l #	72
20) Methylene Chloride	5.277	84	20104	5.572	ug/l	91
25) 2-Butanone	7.500	43	8038	2.961	ug/l	88
29) Tetrahydrofuran	7.847	42	476	0.265	ug/l #	38
31) Cyclohexane	8.230	56	5831	Below Cal	#	28
36) 1,1-Dichloropropene	8.230	75	22333	4.358	ug/l #	47
37) Ethyl Acetate	7.582	43	4536	0.791	ug/l #	69
38) Carbon Tetrachloride	8.230	117	28646	5.579	ug/l #	17
42) 1,2-Dichloroethane	8.694	62	1307	0.231	ug/l #	73
43) Isopropyl Acetate	8.694	43	209572	20.680	ug/l #	78
45) 1,2-Dichloropropane	9.753	63	2094	0.519	ug/l #	45
48) Methyl methacrylate	9.747	41	149879	32.637	ug/l #	27
49) 1,4-Dioxane	9.741	88	145	1.854	ug/l #	1
51) 4-Methyl-2-Pentanone	10.447	43	30706	5.109	ug/l #	81
53) t-1,3-Dichloropropene	10.729	75	1307	0.223	ug/l #	45
54) cis-1,3-Dichloropropene	10.365	75	66754	10.464	ug/l #	63
56) Ethyl methacrylate	10.994	69	2343	0.405	ug/l #	1
57) 1,3-Dichloropropane	11.200	76	8812	1.321	ug/l #	42
59) 2-Hexanone	11.206	43	100539	23.094	ug/l #	50
74) N-amyl acetate	12.500	43	1355	0.202	ug/l #	36
76) 1,2,3-Trichloropropane	12.853	75	107727	28.029	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.853	75	107727	71.603	ug/l #	15
95) Naphthalene	15.653	128	72	2.584	ug/l #	70

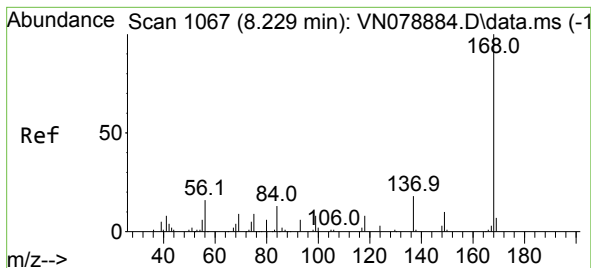
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 8.230 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN079151.D

Acq: 02 Sep 2023 18:23

Instrument :

MSVOA_N

ClientSampleId :

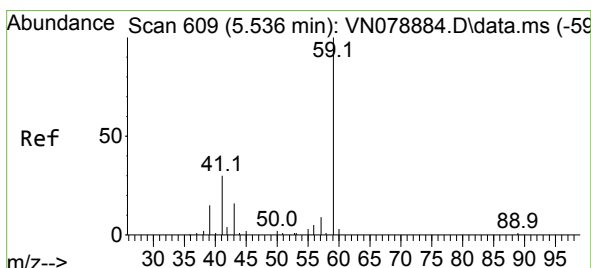
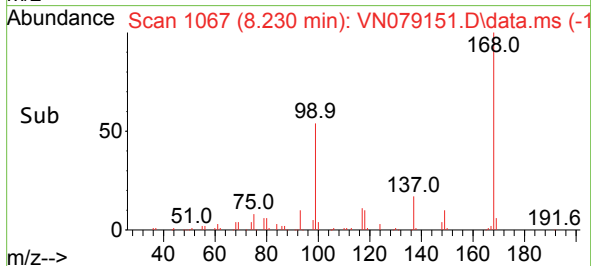
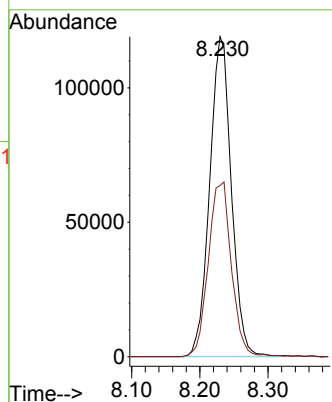
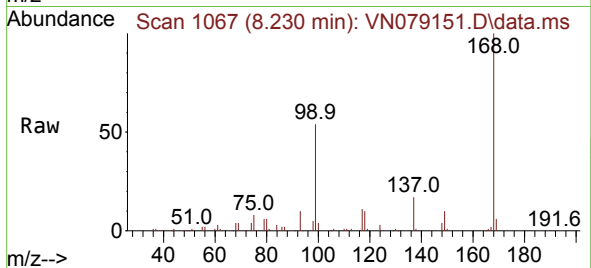
MW-4-6

Tgt Ion:168 Resp: 263704

Ion Ratio Lower Upper

168 100

99 53.5 53.0 79.6



#11

Tert butyl alcohol

Concen: 1.534 ug/l

RT: 5.500 min Scan# 603

Delta R.T. -0.042 min

Lab File: VN079151.D

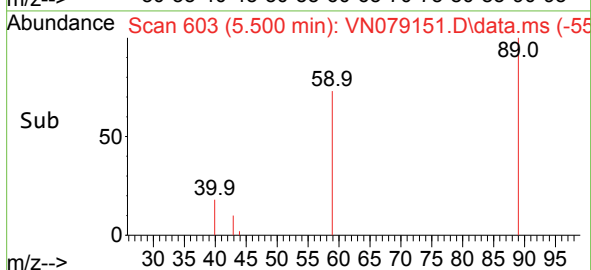
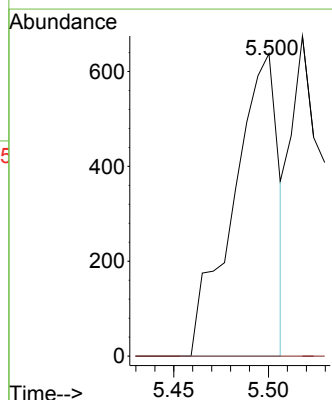
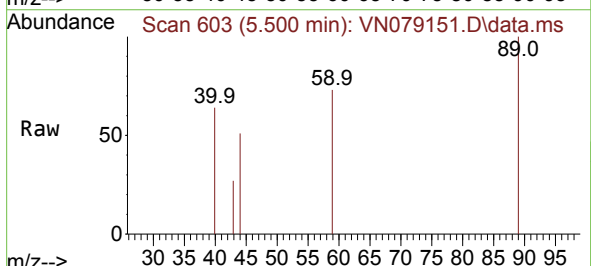
Acq: 02 Sep 2023 18:23

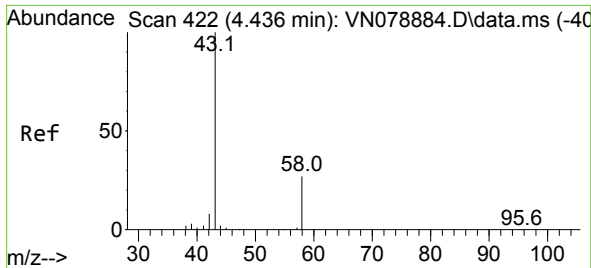
Tgt Ion: 59 Resp: 1056

Ion Ratio Lower Upper

59 100

57 0.0 8.2 12.4#





#16

Acetone

Concen: 8.574 ug/l

RT: 4.442 min Scan# 43

Delta R.T. -0.000 min

Lab File: VN079151.D

Acq: 02 Sep 2023 18:23

Instrument :

MSVOA_N

ClientSampleId :

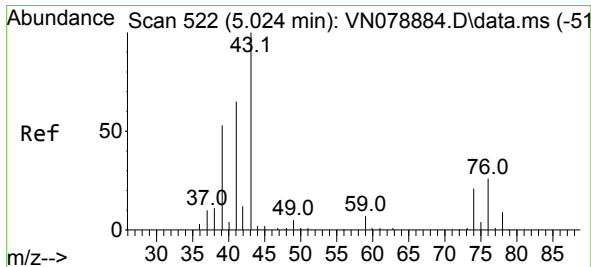
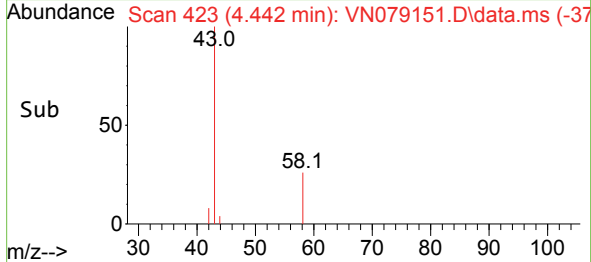
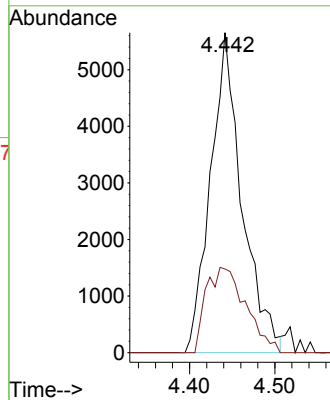
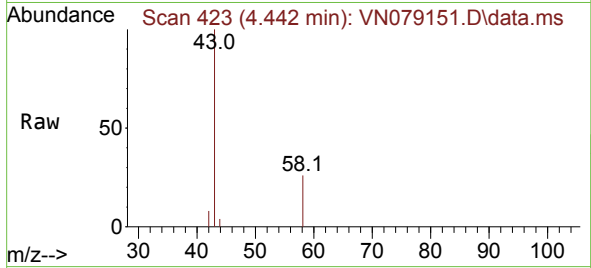
MW-4-6

Tgt Ion: 43 Resp: 14517

Ion Ratio Lower Upper

43 100

58 26.2 28.0 42.0#



#18

Methyl Acetate

Concen: 0.514 ug/l

RT: 5.059 min Scan# 528

Delta R.T. 0.017 min

Lab File: VN079151.D

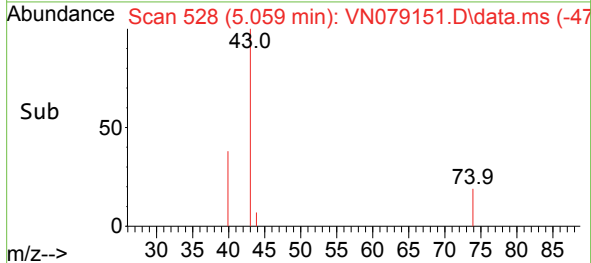
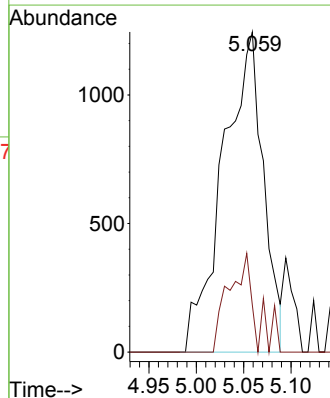
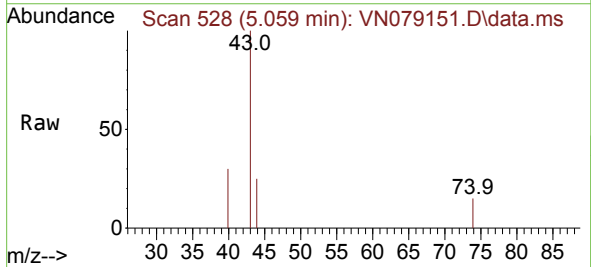
Acq: 02 Sep 2023 18:23

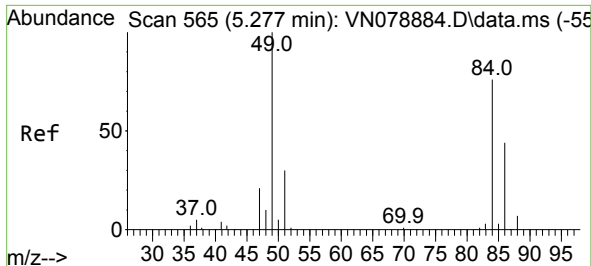
Tgt Ion: 43 Resp: 3675

Ion Ratio Lower Upper

43 100

74 16.9 26.2 39.4#

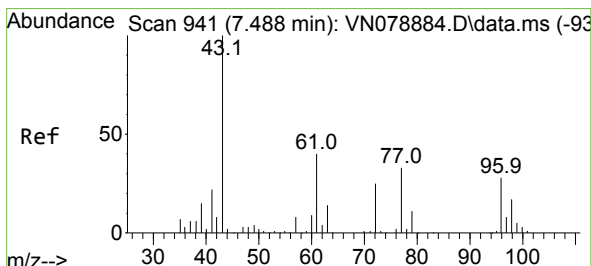
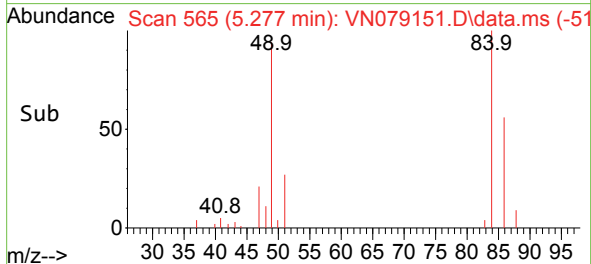
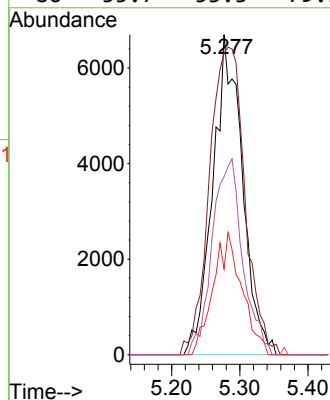
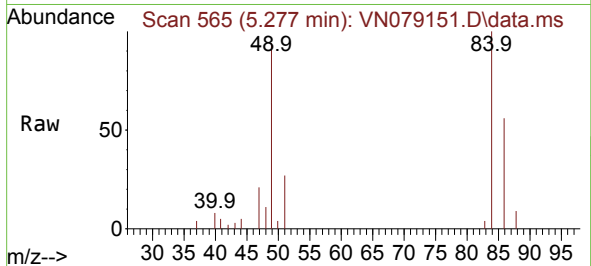




#20
Methylene Chloride
Concen: 5.572 ug/l
RT: 5.277 min Scan# 501
Delta R.T. -0.006 min
Lab File: VN079151.D
Acq: 02 Sep 2023 18:23

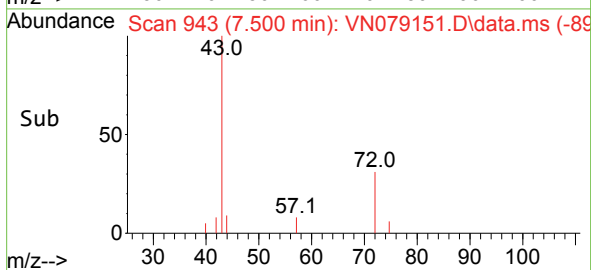
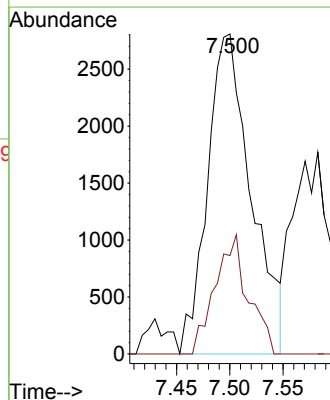
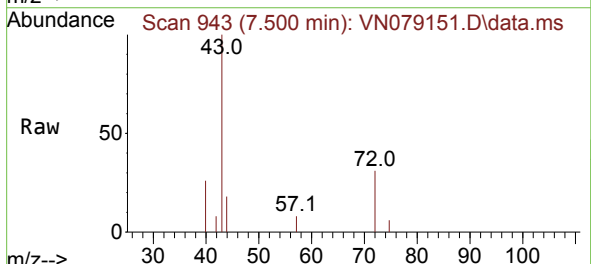
Instrument :
MSVOA_N
ClientSampleId :
MW-4-6

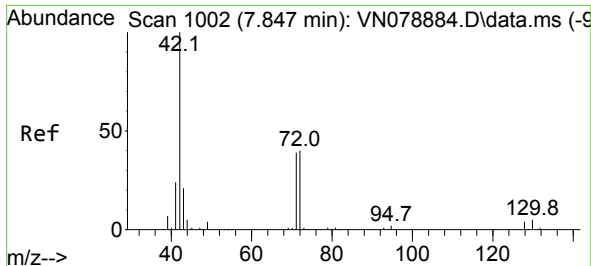
Tgt Ion:	84	Resp:	20104
Ion	Ratio	Lower	Upper
84	100		
49	94.2	79.7	119.5
51	26.9	25.2	37.8
86	55.7	53.3	79.9



#25
2-Butanone
Concen: 2.961 ug/l
RT: 7.500 min Scan# 943
Delta R.T. 0.006 min
Lab File: VN079151.D
Acq: 02 Sep 2023 18:23

Tgt Ion:	43	Resp:	8038
Ion	Ratio	Lower	Upper
43	100		
72	30.8	30.2	45.2





#29

Tetrahydrofuran

Concen: 0.265 ug/l

RT: 7.847 min Scan# 10

Delta R.T. 0.000 min

Lab File: VN079151.D

Acq: 02 Sep 2023 18:23

Instrument :

MSVOA_N

ClientSampleId :

MW-4-6

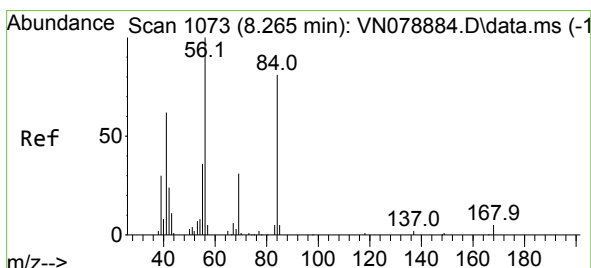
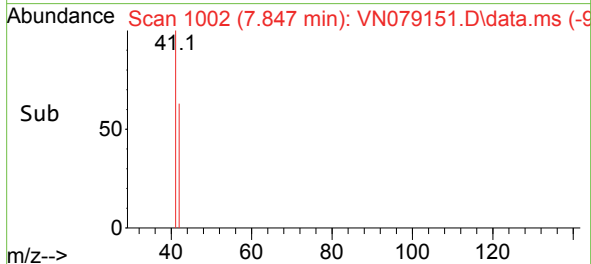
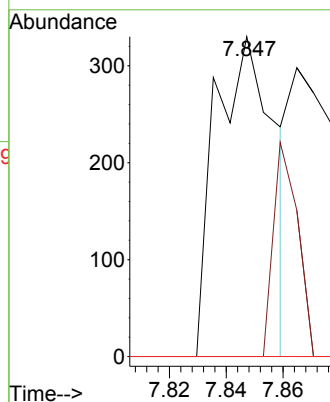
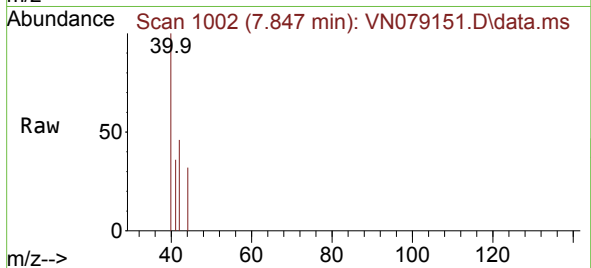
Tgt Ion: 42 Resp: 476

Ion Ratio Lower Upper

42 100

72 27.5 49.8 74.6#

71 0.0 47.4 71.2#



#31

Cyclohexane

Concen: Below Cal

RT: 8.230 min Scan# 1067

Delta R.T. -0.035 min

Lab File: VN079151.D

Acq: 02 Sep 2023 18:23

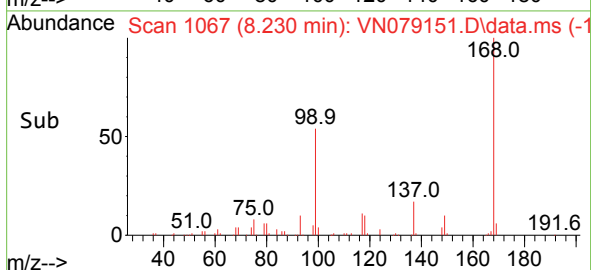
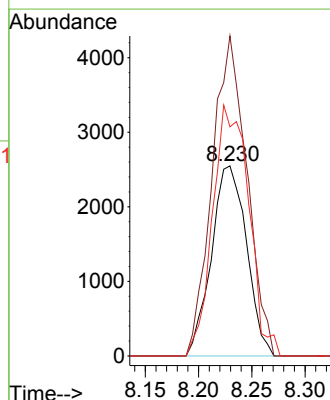
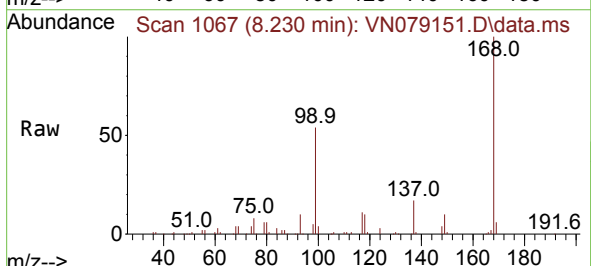
Tgt Ion: 56 Resp: 5831

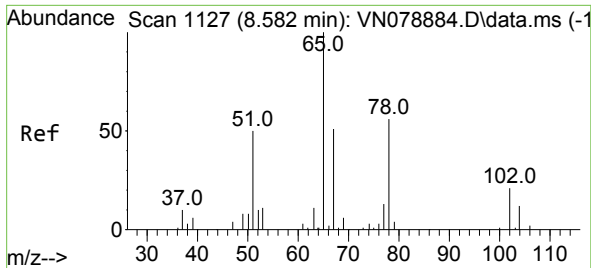
Ion Ratio Lower Upper

56 100

69 168.3 26.8 40.2#

84 120.6 81.8 122.6





#33

1,2-Dichloroethane-d4

Concen: 48.533 ug/l

RT: 8.582 min Scan# 1127

Delta R.T. -0.001 min

Lab File: VN079151.D

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ClientSampleId :

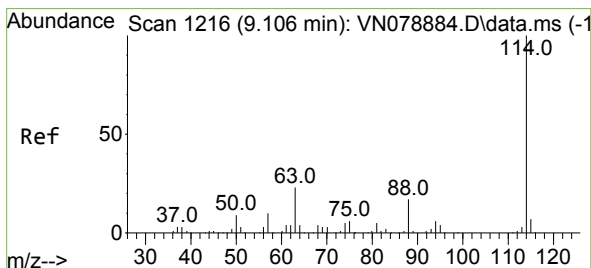
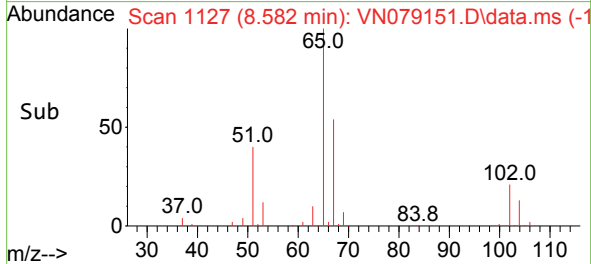
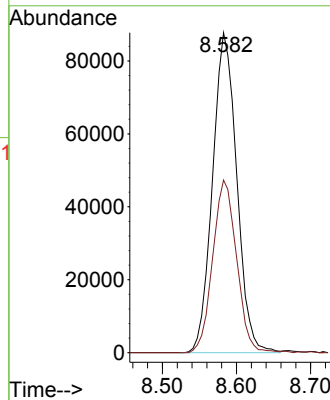
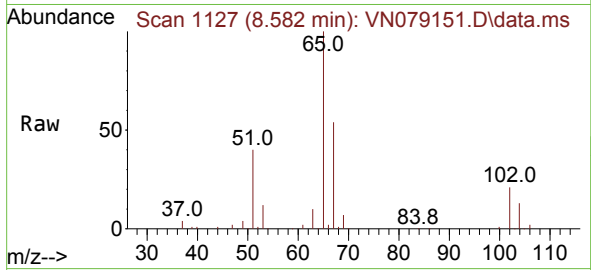
MW-4-6

Tgt Ion: 65 Resp: 199155

Ion Ratio Lower Upper

65 100

67 53.2 0.0 106.6



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.106 min Scan# 1216

Delta R.T. -0.006 min

Lab File: VN079151.D

Acq: 02 Sep 2023 18:23

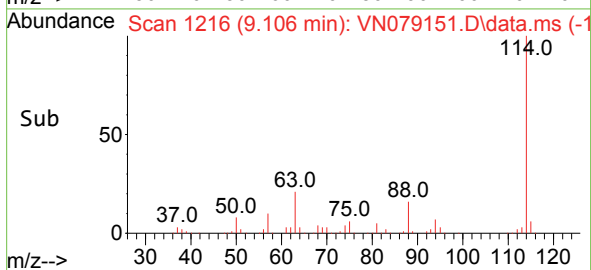
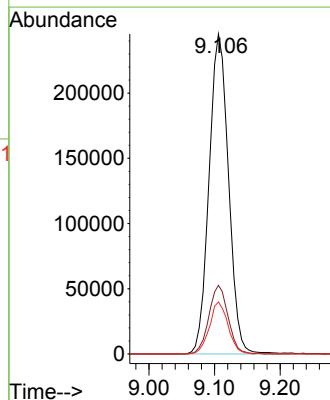
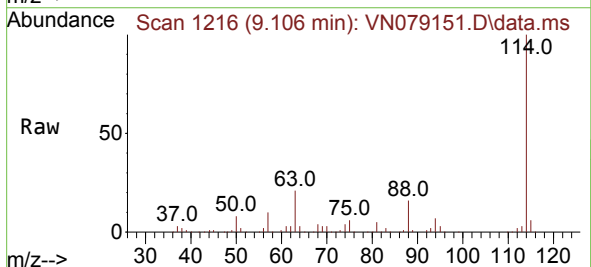
Tgt Ion: 114 Resp: 506082

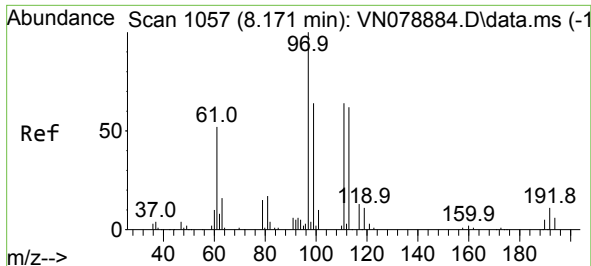
Ion Ratio Lower Upper

114 100

63 21.4 0.0 36.4

88 16.3 0.0 30.6





#35

Dibromofluoromethane

Concen: 51.230 ug/l

RT: 8.171 min Scan# 1057

Delta R.T. -0.000 min

Lab File: VN079151.D

Acq: 02 Sep 2023 18:23

Instrument :

MSVOA_N

ClientSampleId :

MW-4-6

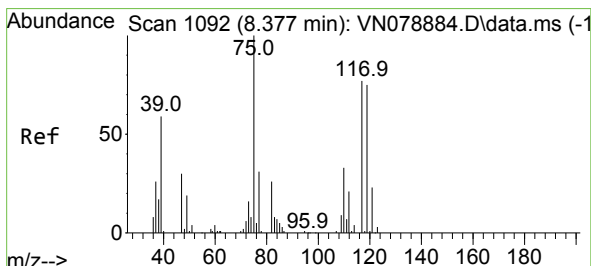
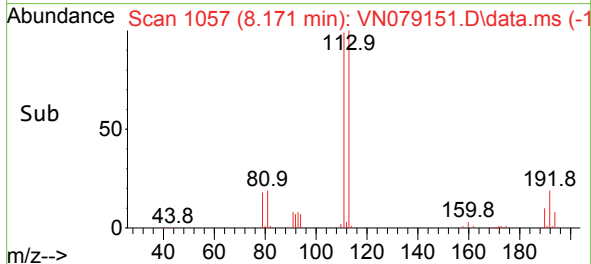
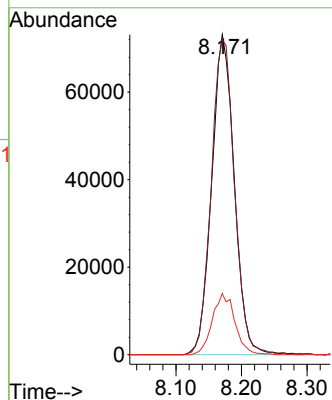
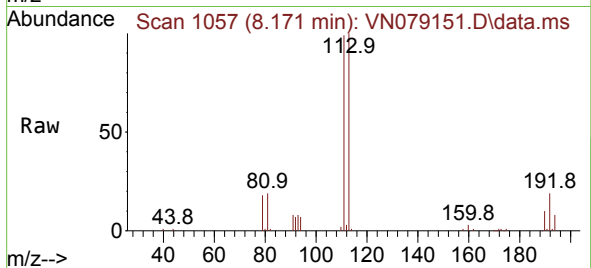
Tgt Ion:113 Resp: 174523

Ion Ratio Lower Upper

113 100

111 101.6 82.6 123.8

192 19.2 12.7 19.1#



#36

1,1-Dichloropropene

Concen: 4.358 ug/l

RT: 8.230 min Scan# 1067

Delta R.T. -0.147 min

Lab File: VN079151.D

Acq: 02 Sep 2023 18:23

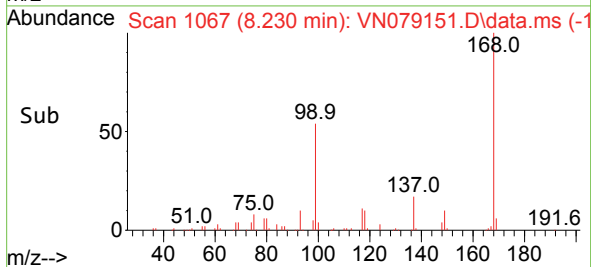
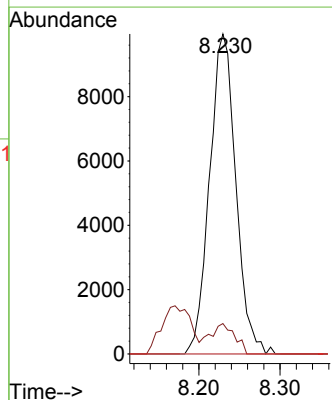
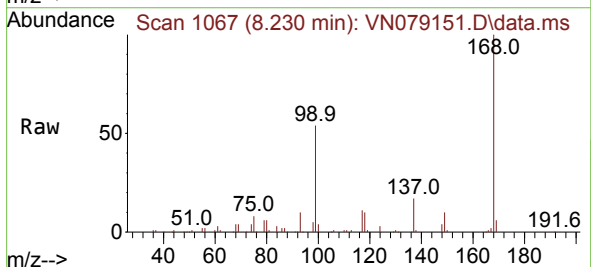
Tgt Ion: 75 Resp: 22333

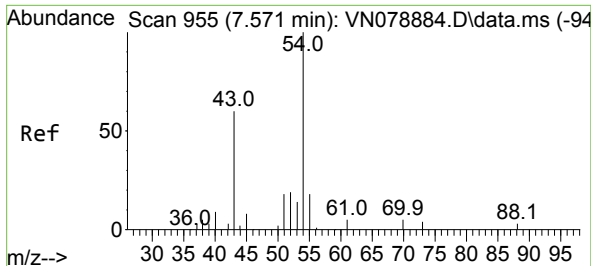
Ion Ratio Lower Upper

75 100

110 8.3 19.1 57.3#

77 0.0 25.0 37.4#

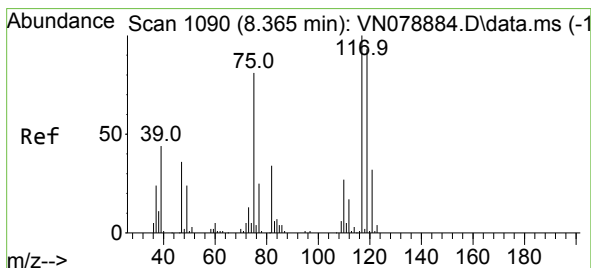
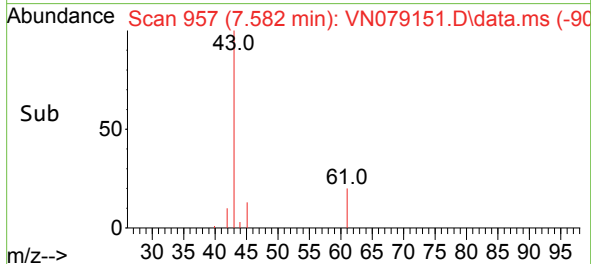
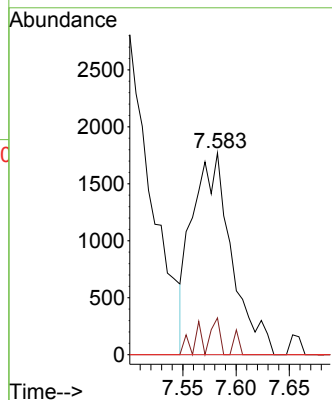
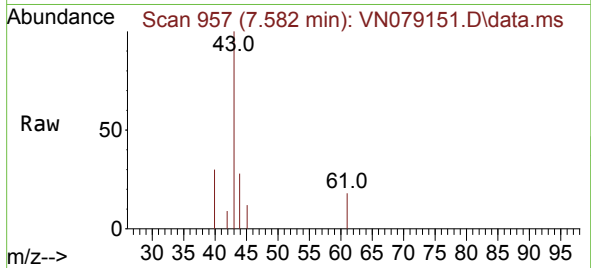




#37
Ethyl Acetate
Concen: 0.791 ug/l
RT: 7.582 min Scan# 91
Delta R.T. 0.011 min
Lab File: VN079151.D
Acq: 02 Sep 2023 18:23

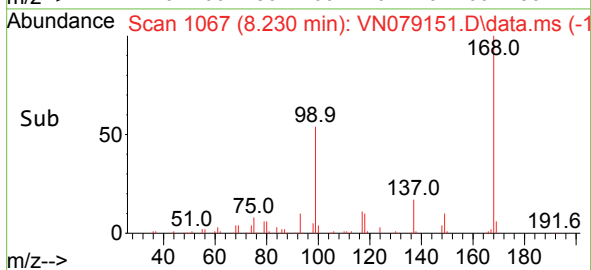
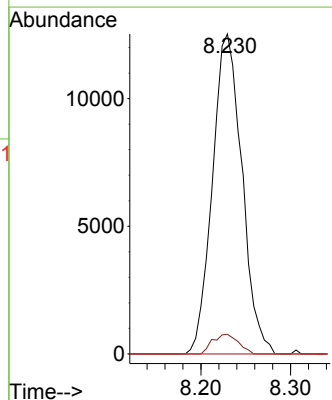
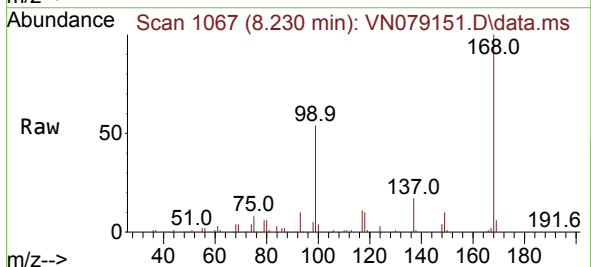
Instrument :
MSVOA_N
ClientSampleId :
MW-4-6

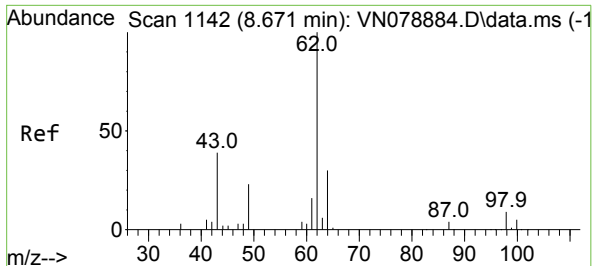
Tgt Ion: 43 Resp: 4536
Ion Ratio Lower Upper
43 100
61 4.2 13.2 19.8#
70 0.0 11.3 16.9#



#38
Carbon Tetrachloride
Concen: 5.579 ug/l
RT: 8.230 min Scan# 1067
Delta R.T. -0.141 min
Lab File: VN079151.D
Acq: 02 Sep 2023 18:23

Tgt Ion: 117 Resp: 28646
Ion Ratio Lower Upper
117 100
119 6.1 77.3 115.9#
121 0.0 23.3 34.9#





#42

1,2-Dichloroethane

Concen: 0.231 ug/l

RT: 8.694 min Scan# 1146

Delta R.T. 0.017 min

Lab File: VN079151.D

Acq: 02 Sep 2023 18:23

Instrument :

MSVOA_N

ClientSampleId :

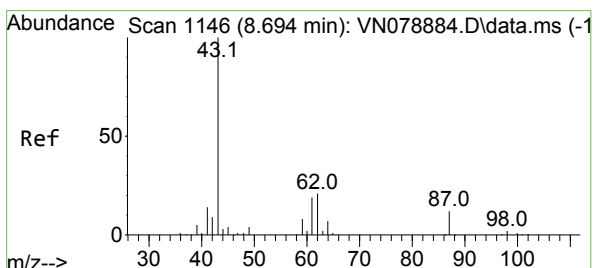
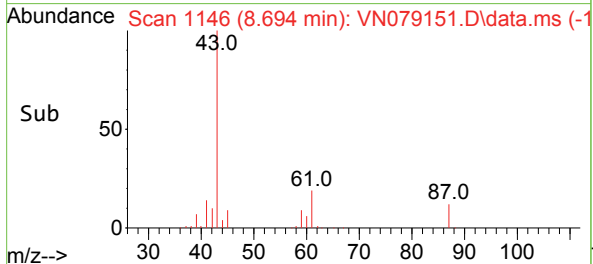
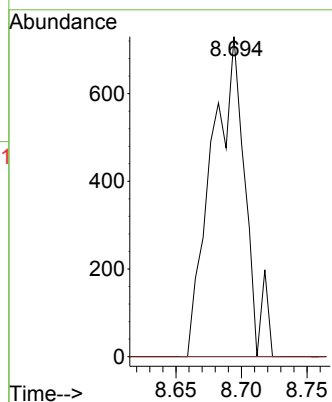
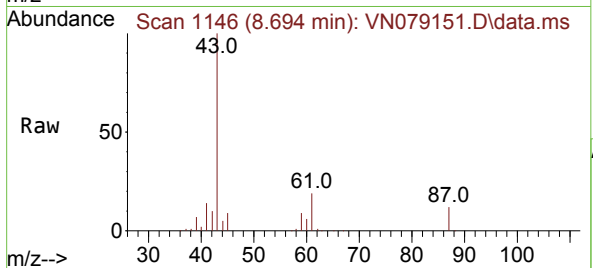
MW-4-6

Tgt Ion: 62 Resp: 1307

Ion Ratio Lower Upper

62 100

98 0.0 0.0 19.8



#43

Isopropyl Acetate

Concen: 20.680 ug/l

RT: 8.694 min Scan# 1146

Delta R.T. 0.000 min

Lab File: VN079151.D

Acq: 02 Sep 2023 18:23

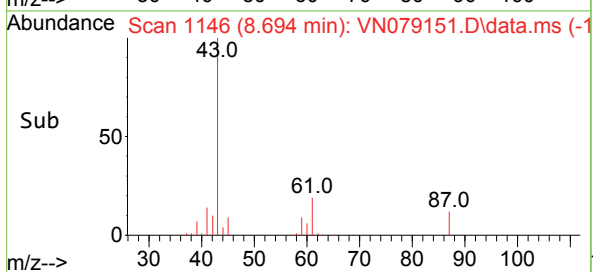
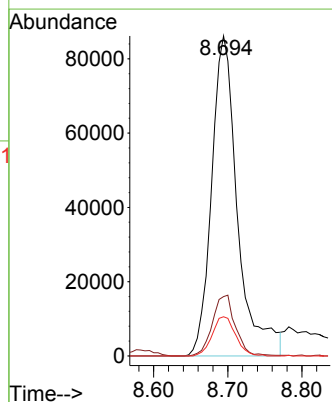
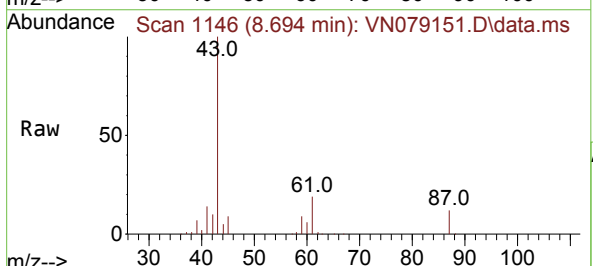
Tgt Ion: 43 Resp: 209572

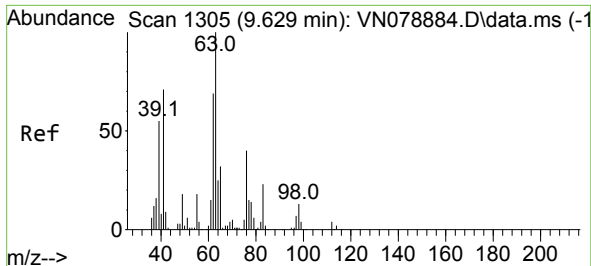
Ion Ratio Lower Upper

43 100

61 16.8 24.7 37.1#

87 11.0 14.6 21.8#





#45

1,2-Dichloropropane

Concen: 0.519 ug/l

RT: 9.753 min Scan# 1326

Delta R.T. 0.129 min

Lab File: VN079151.D

Acq: 02 Sep 2023 18:23

Instrument :

MSVOA_N

ClientSampleId :

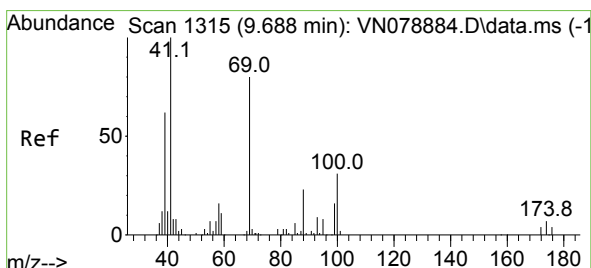
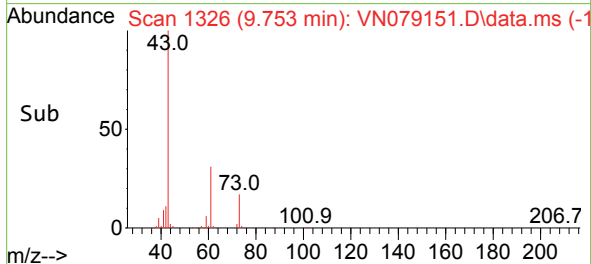
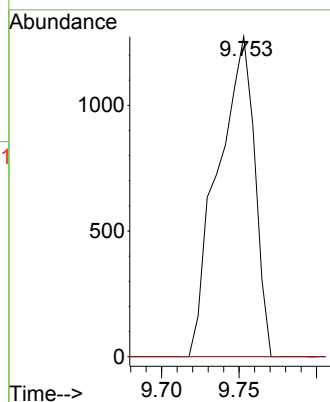
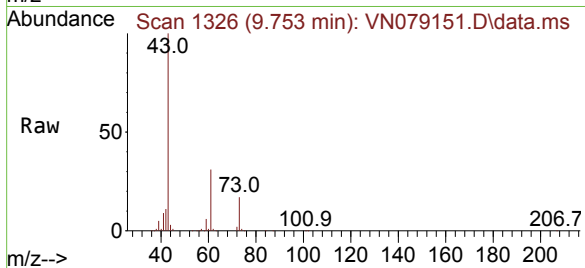
MW-4-6

Tgt Ion: 63 Resp: 2094

Ion Ratio Lower Upper

63 100

65 0.0 23.9 35.9#



#48

Methyl methacrylate

Concen: 32.637 ug/l

RT: 9.747 min Scan# 1325

Delta R.T. 0.059 min

Lab File: VN079151.D

Acq: 02 Sep 2023 18:23

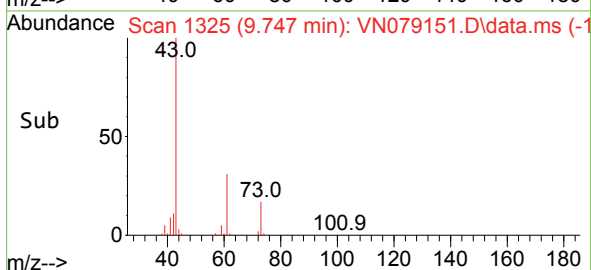
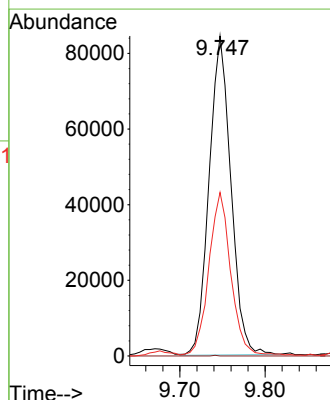
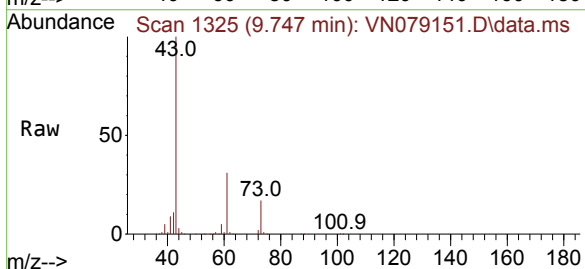
Tgt Ion: 41 Resp: 149879

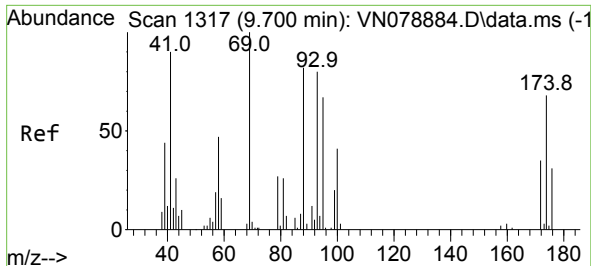
Ion Ratio Lower Upper

41 100

69 0.0 90.4 135.6#

39 51.7 54.6 81.8#





#49

1,4-Dioxane

Concen: 1.854 ug/l

RT: 9.741 min Scan# 11

Delta R.T. 0.041 min

Lab File: VN079151.D

Acq: 02 Sep 2023 18:23

Instrument :

MSVOA_N

ClientSampleId :

MW-4-6

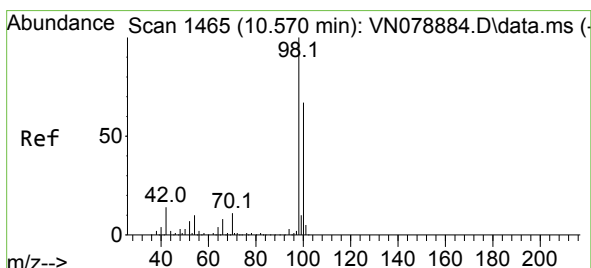
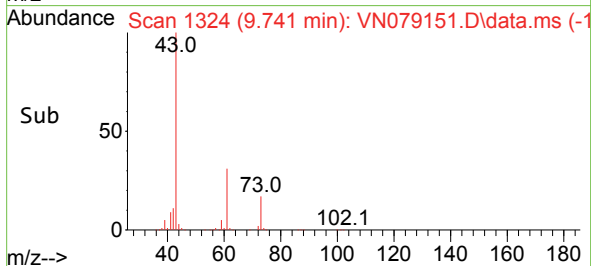
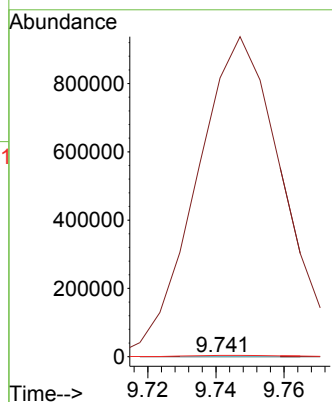
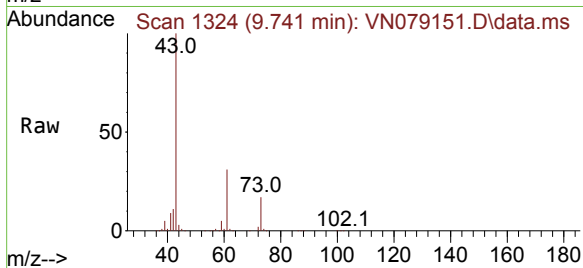
Tgt Ion: 88 Resp: 145

Ion Ratio Lower Upper

88 100

43 1160638.6 17.0 25.6#

58 5612.4 47.0 70.4#



#50

Toluene-d8

Concen: 49.783 ug/l

RT: 10.571 min Scan# 1465

Delta R.T. -0.000 min

Lab File: VN079151.D

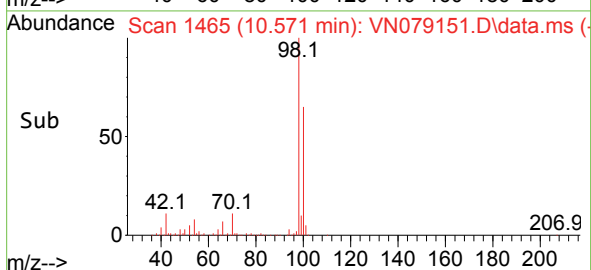
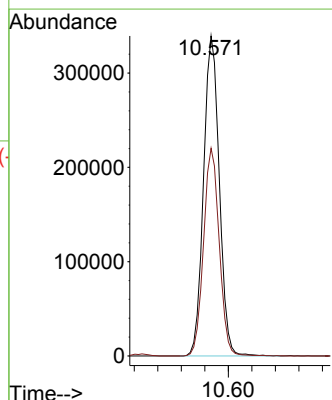
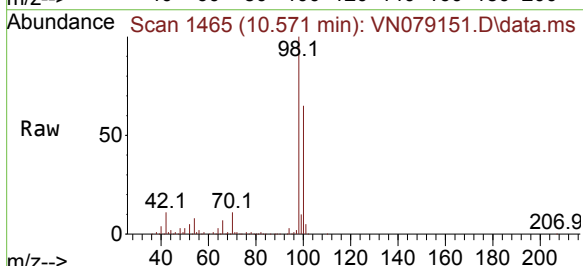
Acq: 02 Sep 2023 18:23

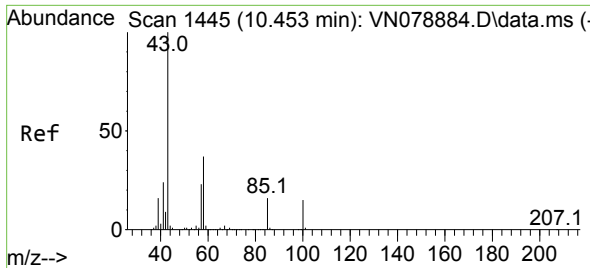
Tgt Ion: 98 Resp: 629719

Ion Ratio Lower Upper

98 100

100 64.6 52.0 78.0

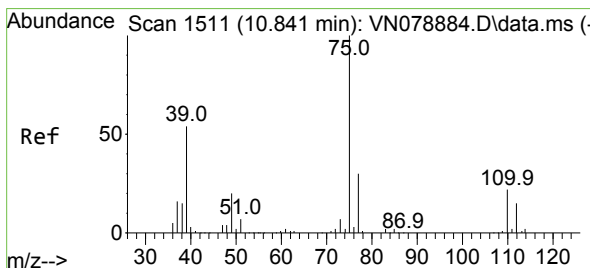
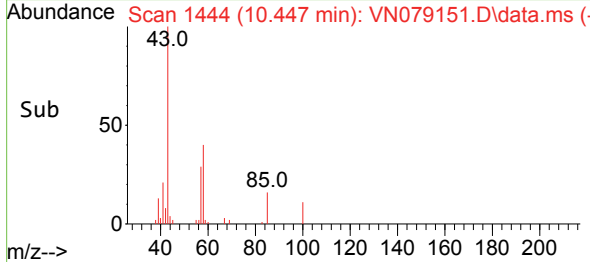
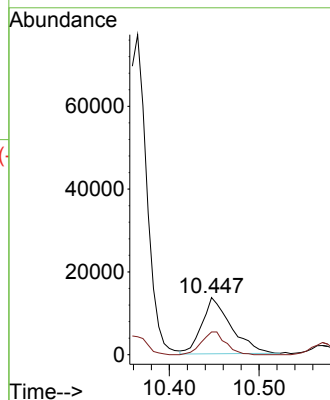
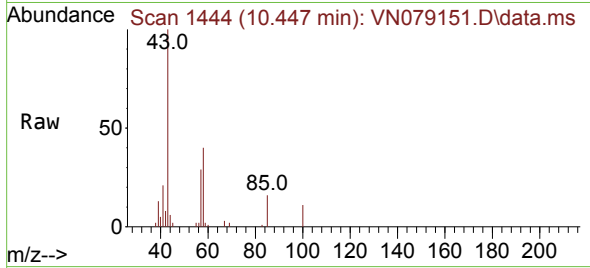




#51
4-Methyl-2-Pentanone
Concen: 5.109 ug/l
RT: 10.447 min Scan# 1444
Delta R.T. -0.006 min
Lab File: VN079151.D
Acq: 02 Sep 2023 18:23

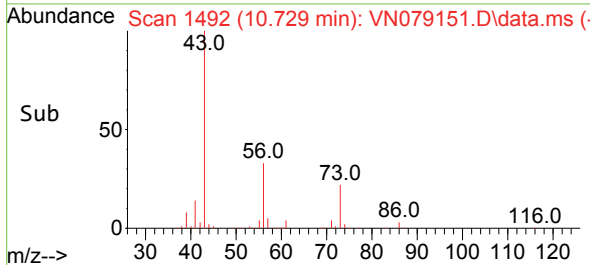
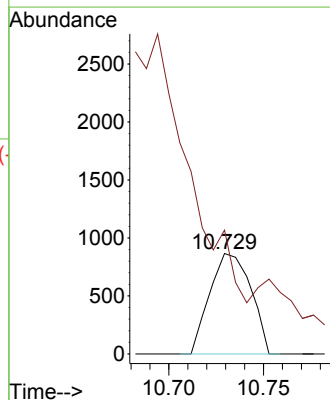
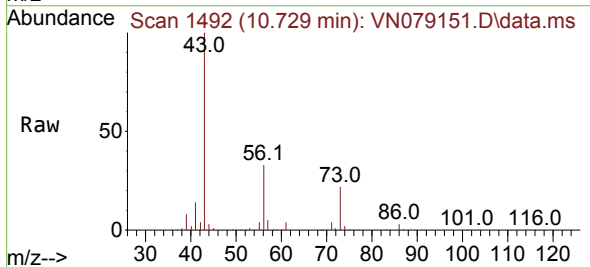
Instrument :
MSVOA_N
ClientSampleId :
MW-4-6

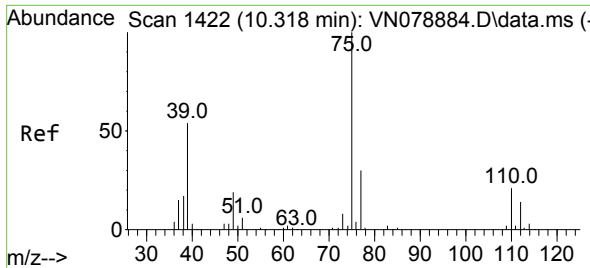
Tgt Ion: 43 Resp: 30706
Ion Ratio Lower Upper
43 100
58 33.4 36.6 54.8#



#53
t-1,3-Dichloropropene
Concen: 0.223 ug/l
RT: 10.729 min Scan# 1492
Delta R.T. -0.112 min
Lab File: VN079151.D
Acq: 02 Sep 2023 18:23

Tgt Ion: 75 Resp: 1307
Ion Ratio Lower Upper
75 100
77 62.0 25.4 38.0#

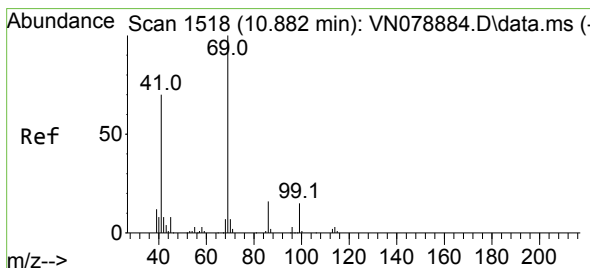
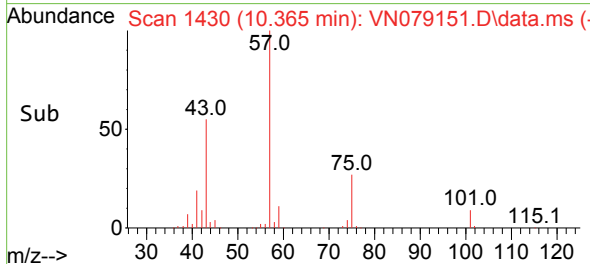
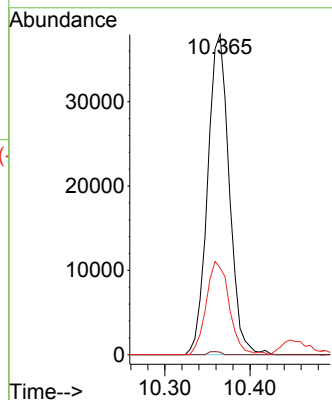
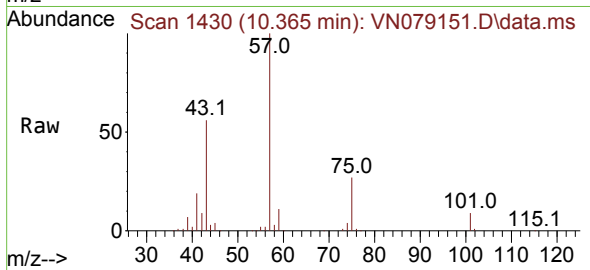




#54
cis-1,3-Dichloropropene
Concen: 10.464 ug/l
RT: 10.365 min Scan# 14
Delta R.T. 0.047 min
Lab File: VN079151.D
Acq: 02 Sep 2023 18:23

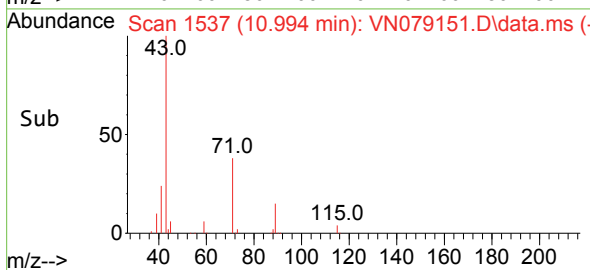
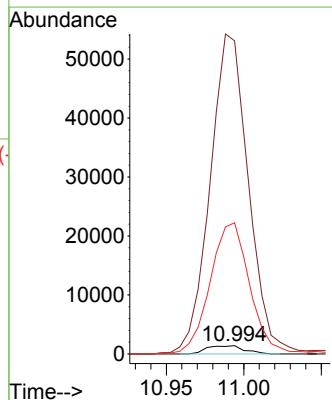
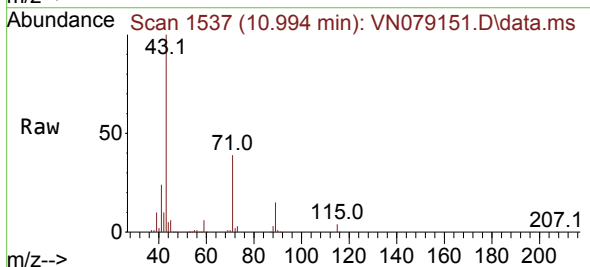
Instrument :
MSVOA_N
ClientSampleId :
MW-4-6

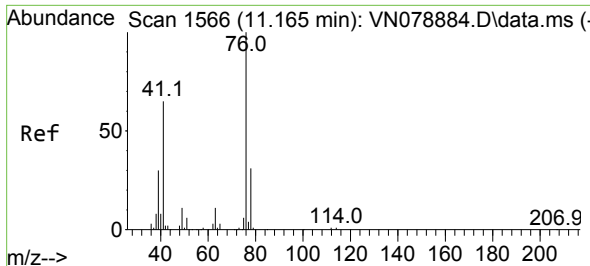
Tgt Ion: 75 Resp: 66754
Ion Ratio Lower Upper
75 100
77 0.8 26.1 39.1#
39 27.1 31.6 47.4#



#56
Ethyl methacrylate
Concen: 0.405 ug/l
RT: 10.994 min Scan# 1537
Delta R.T. 0.117 min
Lab File: VN079151.D
Acq: 02 Sep 2023 18:23

Tgt Ion: 69 Resp: 2343
Ion Ratio Lower Upper
69 100
41 3993.4 39.6 59.4#
39 1688.3 28.6 43.0#





#57

1,3-Dichloropropane

Concen: 1.321 ug/l

RT: 11.200 min Scan# 1572

Delta R.T. 0.035 min

Lab File: VN079151.D

Acq: 02 Sep 2023 18:23

Instrument :

MSVOA_N

ClientSampleId :

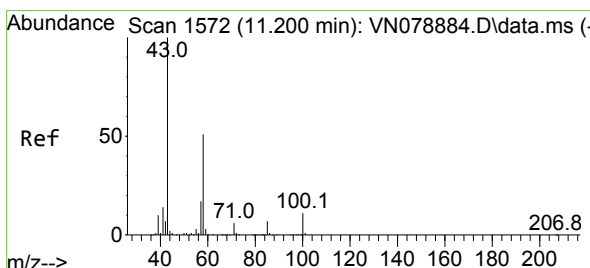
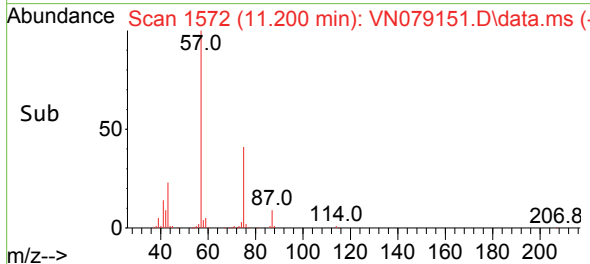
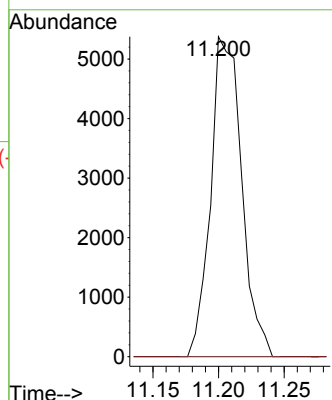
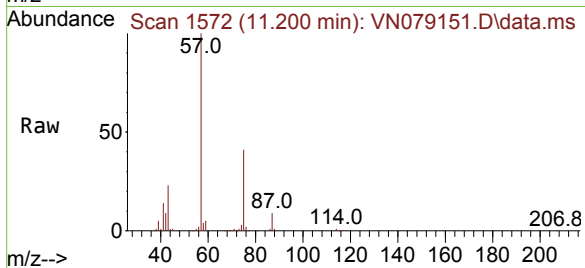
MW-4-6

Tgt Ion: 76 Resp: 8812

Ion Ratio Lower Upper

76 100

78 0.0 26.1 39.1#



#59

2-Hexanone

Concen: 23.094 ug/l

RT: 11.206 min Scan# 1573

Delta R.T. 0.006 min

Lab File: VN079151.D

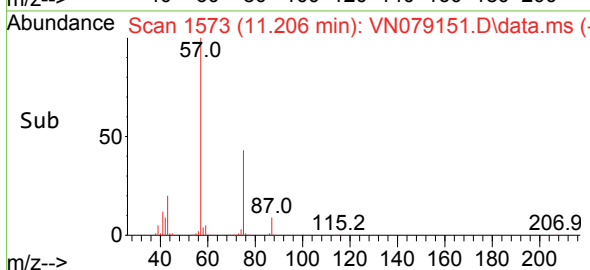
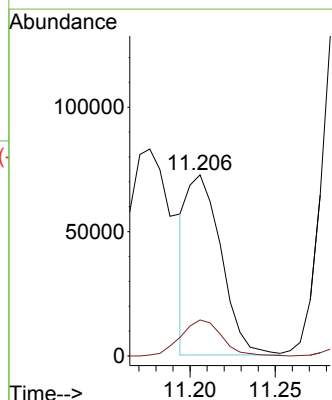
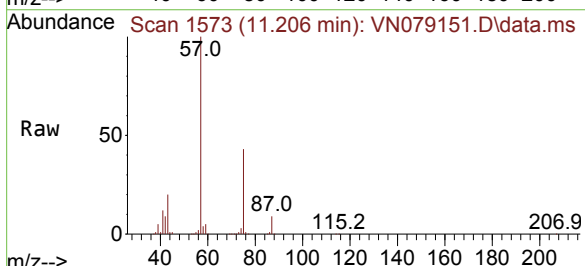
Acq: 02 Sep 2023 18:23

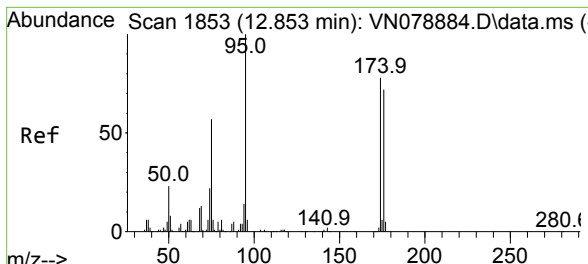
Tgt Ion: 43 Resp: 100539

Ion Ratio Lower Upper

43 100

58 24.2 31.7 95.1#

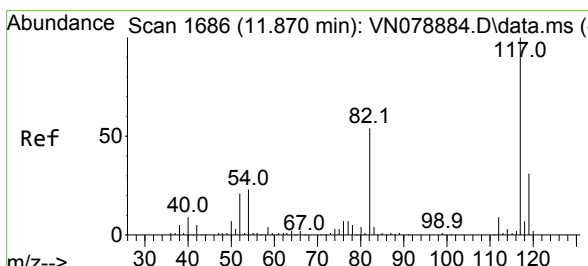
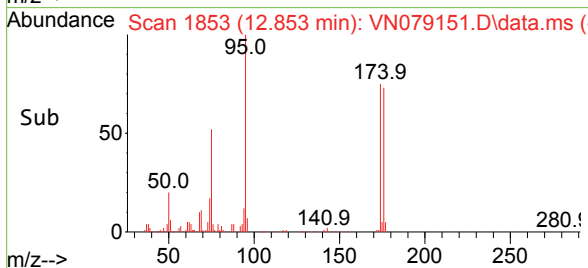
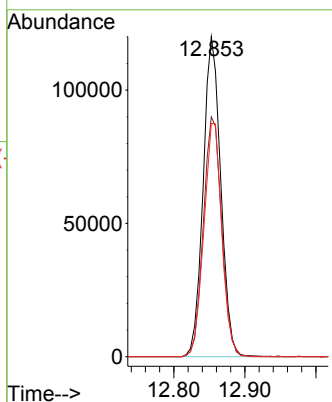
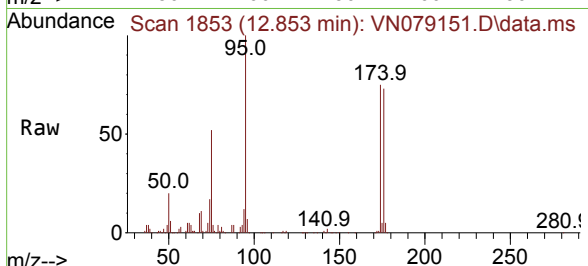




#62
 4-Bromofluorobenzene
 Concen: 49.951 ug/l
 RT: 12.853 min Scan# 1853
 Delta R.T. -0.000 min
 Lab File: VN079151.D
 Acq: 02 Sep 2023 18:23

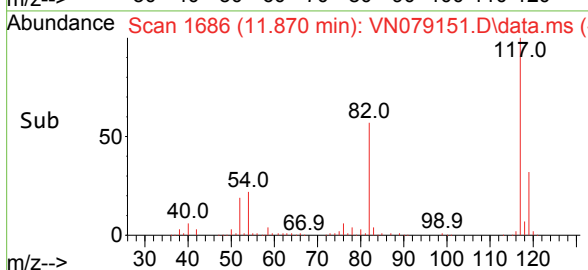
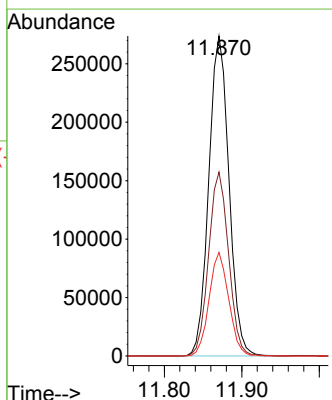
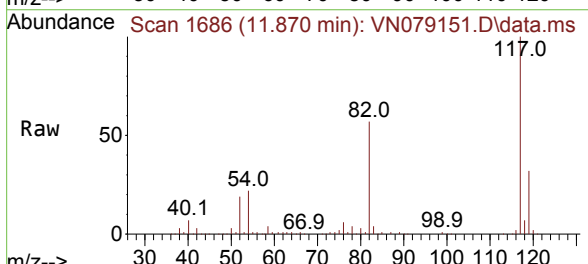
Instrument :
 MSVOA_N
 ClientSampleId :
 MW-4-6

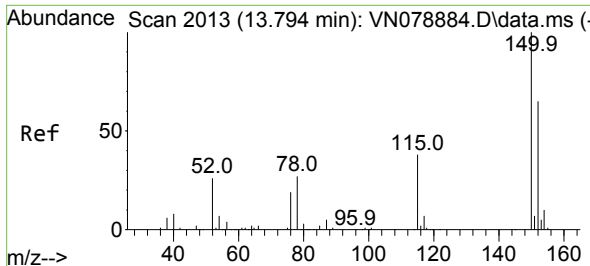
Tgt Ion:	95	Resp:	206524
Ion	Ratio	Lower	Upper
95	100		
174	78.4	0.0	143.8
176	74.4	0.0	135.8



#63
 Chlorobenzene-d5
 Concen: 50.000 ug/l
 RT: 11.870 min Scan# 1686
 Delta R.T. -0.001 min
 Lab File: VN079151.D
 Acq: 02 Sep 2023 18:23

Tgt Ion:	117	Resp:	496314
Ion	Ratio	Lower	Upper
117	100		
82	57.5	44.0	66.0
119	32.3	25.6	38.4

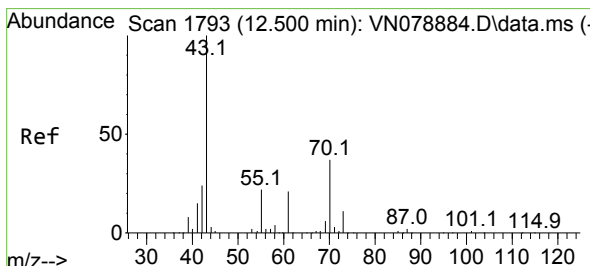
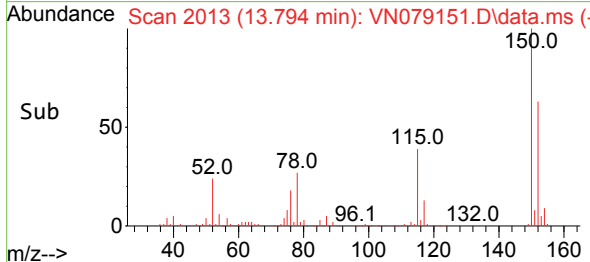
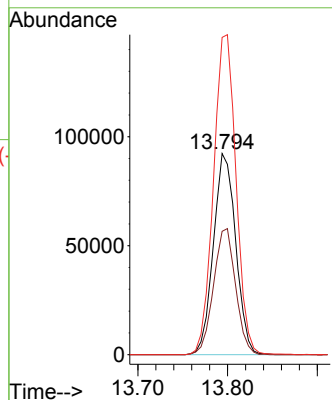
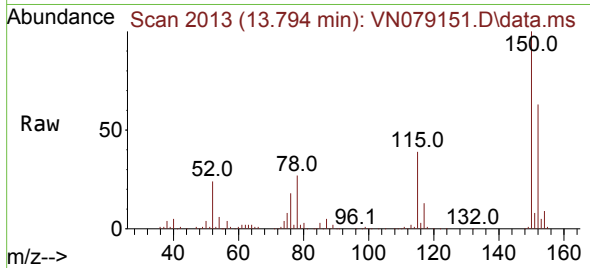




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.794 min Scan# 20
 Delta R.T. -0.000 min
 Lab File: VN079151.D
 Acq: 02 Sep 2023 18:23

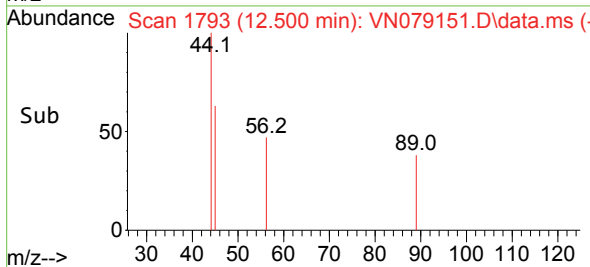
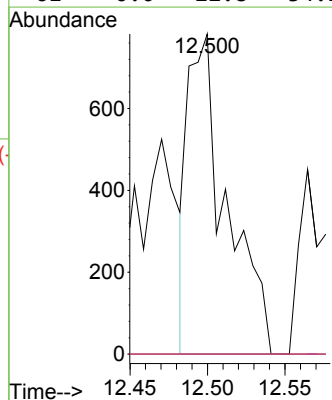
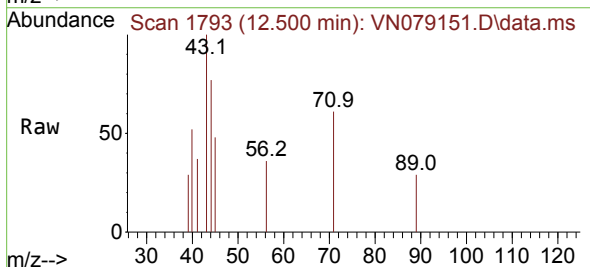
Instrument :
 MSVOA_N
 ClientSampleId :
 MW-4-6

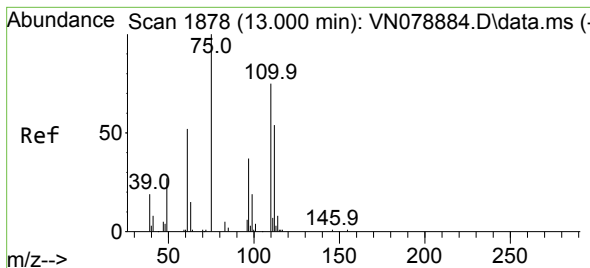
Tgt Ion:152 Resp: 159508
 Ion Ratio Lower Upper
 152 100
 115 62.0 32.3 96.8
 150 160.4 0.0 355.8



#74
 N-ethyl acetate
 Concen: 0.202 ug/l
 RT: 12.500 min Scan# 1793
 Delta R.T. -0.000 min
 Lab File: VN079151.D
 Acq: 02 Sep 2023 18:23

Tgt Ion: 43 Resp: 1355
 Ion Ratio Lower Upper
 43 100
 70 0.0 43.4 65.2#
 55 0.0 21.4 32.0#
 61 0.0 22.8 34.2#

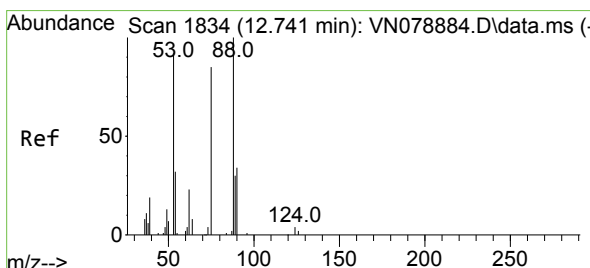
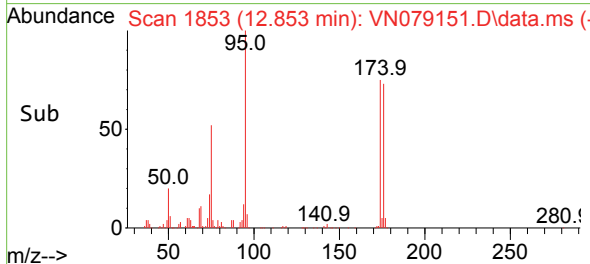
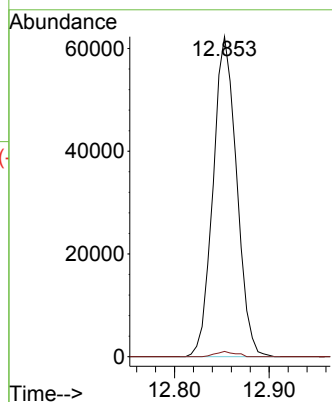
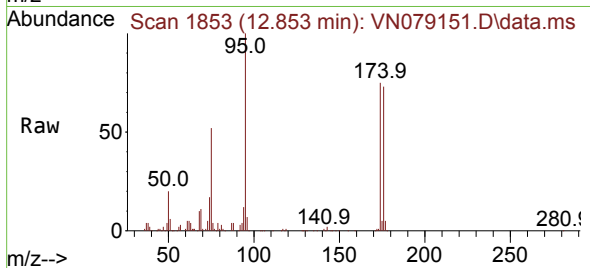




#76
1,2,3-Trichloropropane
Concen: 28.029 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. -0.147 min
Lab File: VN079151.D
Acq: 02 Sep 2023 18:23

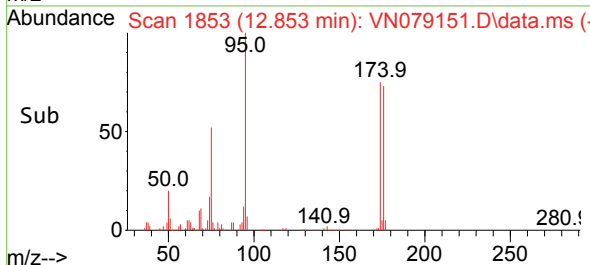
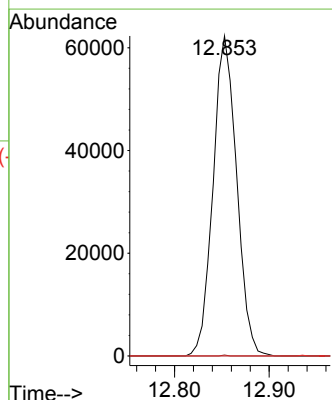
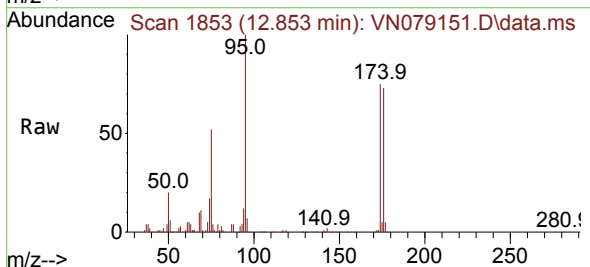
Instrument :
MSVOA_N
ClientSampleId :
MW-4-6

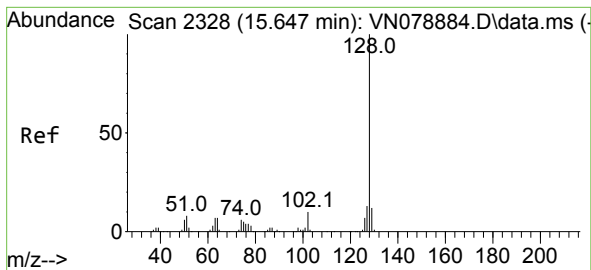
Tgt Ion: 75 Resp: 107727
Ion Ratio Lower Upper
75 100
77 1.4 84.5 253.5#



#81
trans-1,4-Dichloro-2-butene
Concen: 71.603 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.112 min
Lab File: VN079151.D
Acq: 02 Sep 2023 18:23

Tgt Ion: 75 Resp: 107727
Ion Ratio Lower Upper
75 100
53 0.1 67.4 101.2#
89 0.0 38.8 58.2#





#95
Naphthalene
Concen: 2.584 ug/l
RT: 15.653 min Scan# 21
Delta R.T. 0.006 min
Lab File: VN079151.D
Acq: 02 Sep 2023 18:23

Instrument :
MSVOA_N
ClientSampleId :
MW-4-6

Tgt Ion	Ratio	Lower	Upper
128	100		
127	0.0	10.0	15.0#
129	0.0	8.7	13.1#

