

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN062322\
 Data File : VN073052.D
 Acq On : 23 Jun 2022 16:40
 Operator : JC\MD
 Sample : N3381-07
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MW-7A

Quant Time: Jun 24 01:19:36 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N061722W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jun 18 06:22:45 2022
 Response via : Initial Calibration

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

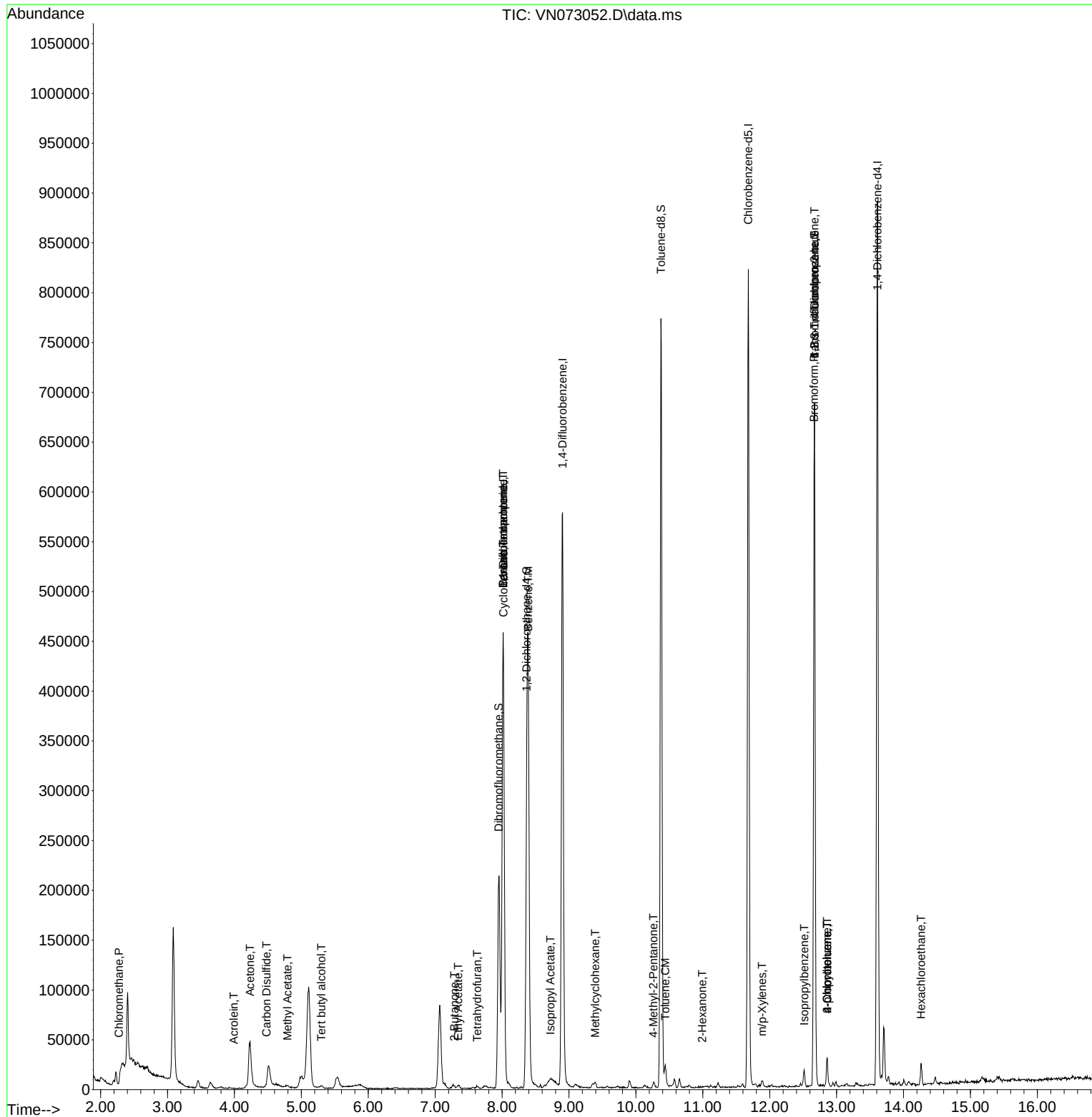
Internal Standards						
1) Pentafluorobenzene	8.016	168	323887	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.904	114	517247	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.680	117	473648	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.610	152	233467	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.369	65	191184	43.661	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	87.320%		
35) Dibromofluoromethane	7.951	113	161532	50.525	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	101.060%		
50) Toluene-d8	10.374	98	533091	44.811	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	89.620%		
62) 4-Bromofluorobenzene	12.668	95	236734	55.341	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	110.680%		
Target Compounds						
					Qvalue	
3) Chloromethane	2.275	50	872	0.829	ug/l #	43
11) Tert butyl alcohol	5.298	59	3703	3.274	ug/l #	72
13) Acrolein	3.993	56	136	0.305	ug/l	100
16) Acetone	4.234	43	90614	37.645	ug/l	91
17) Carbon Disulfide	4.481	76	4987	0.628	ug/l #	75
18) Methyl Acetate	4.792	43	4869	0.760	ug/l #	72
20) Methylene Chloride	5.028	84	438	Below Cal	#	61
25) 2-Butanone	7.286	43	5576	1.460	ug/l #	72
26) 2,2-Dichloropropane	7.063	77	374	Below Cal	#	53
29) Tetrahydrofuran	7.628	42	1185	0.470	ug/l	93
31) Cyclohexane	8.022	56	27569	4.654	ug/l #	80
36) 1,1-Dichloropropene	8.016	75	25167	5.818	ug/l #	49
37) Ethyl Acetate	7.345	43	6417	0.927	ug/l #	82
38) Carbon Tetrachloride	8.016	117	32450	7.131	ug/l #	15
39) Methylcyclohexane	9.392	83	2666	0.511	ug/l #	82
40) Benzene	8.392	78	352882	25.956	ug/l	100
43) Isopropyl Acetate	8.722	43	15184	1.535	ug/l #	53
51) 4-Methyl-2-Pentanone	10.263	43	4559	0.707	ug/l	87
52) Toluene	10.439	92	8197	0.982	ug/l	100
59) 2-Hexanone	10.992	43	1105	0.222	ug/l #	21
68) m/p-Xylenes	11.886	106	2120	0.332	ug/l	88
71) Bromoform	12.663	173	1509	0.568	ug/l #	28
73) Isopropylbenzene	12.515	105	10540	0.584	ug/l	99
76) 1,2,3-Trichloropropane	12.668	75	123418	21.804	ug/l #	1
78) n-propylbenzene	12.857	91	21523	1.083	ug/l	100
79) 2-Chlorotoluene	12.857	91	21523	1.673	ug/l #	40
81) trans-1,4-Dichloro-2-b...	12.668	75	123418	58.884	ug/l #	11
82) 4-Chlorotoluene	12.857	91	21523	1.768	ug/l #	40
90) Hexachloroethane	14.262	117	10736	3.881	ug/l #	9
92) 1,2-Dibromo-3-Chloropr...	14.686	75	71	Below Cal	#	1

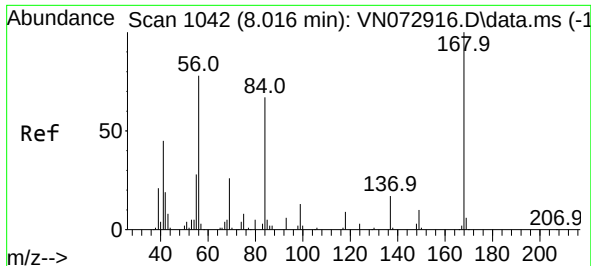
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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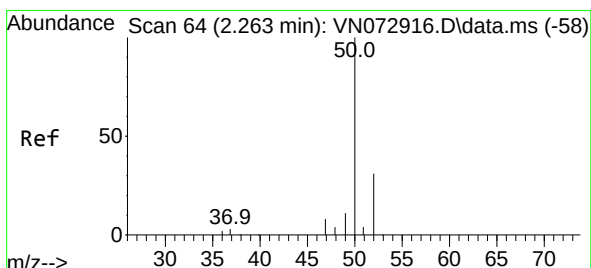
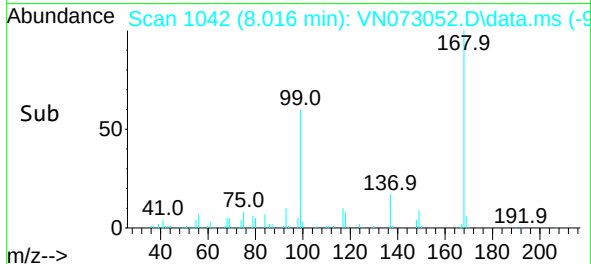
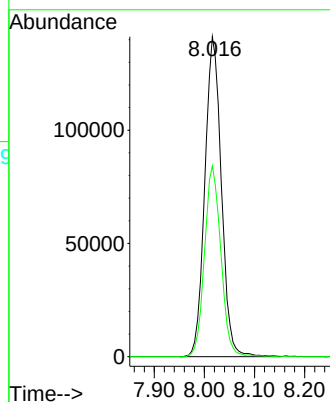
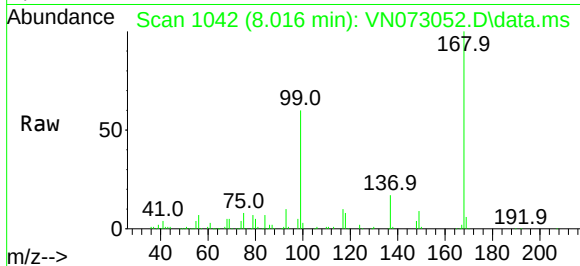




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.016 min Scan# 1042
Delta R.T. -0.000 min
Lab File: VN073052.D
Acq: 23 Jun 2022 16:40

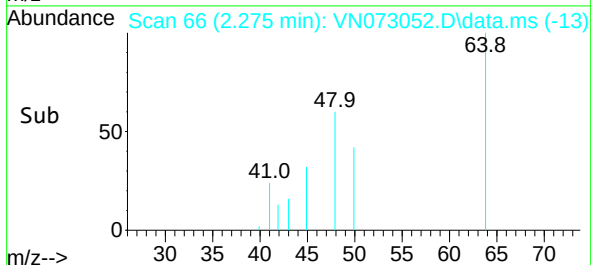
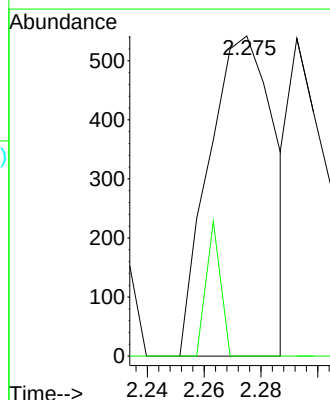
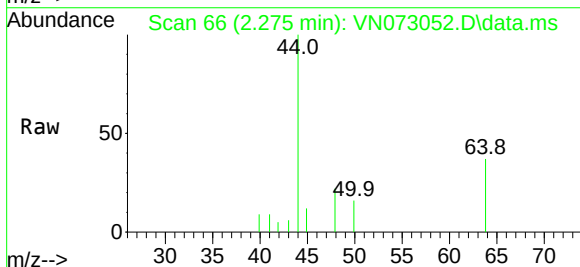
Instrument :
MSVOA_N
ClientSampleId :
MW-7A

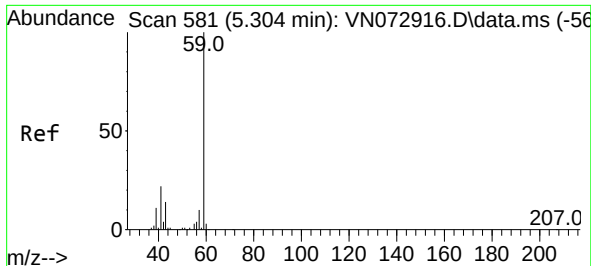
Tgt Ion:168 Resp: 323887
Ion Ratio Lower Upper
168 100
99 59.6 42.3 63.5



#3
Chloromethane
Concen: 0.829 ug/l
RT: 2.275 min Scan# 66
Delta R.T. 0.012 min
Lab File: VN073052.D
Acq: 23 Jun 2022 16:40

Tgt Ion: 50 Resp: 872
Ion Ratio Lower Upper
50 100
52 0.0 25.7 38.5#





#11

Tert butyl alcohol

Concen: 3.274 ug/l

RT: 5.298 min Scan# 580

Delta R.T. -0.006 min

Lab File: VN073052.D

Acq: 23 Jun 2022 16:40

Instrument :

MSVOA_N

ClientSampleId :

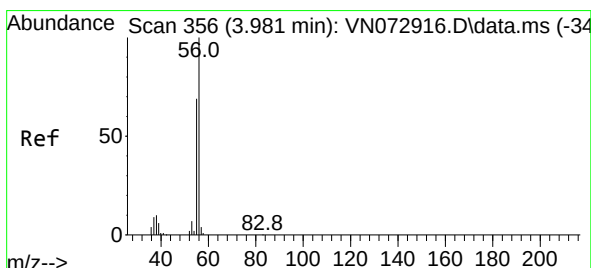
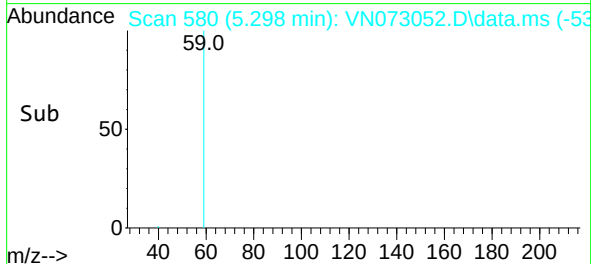
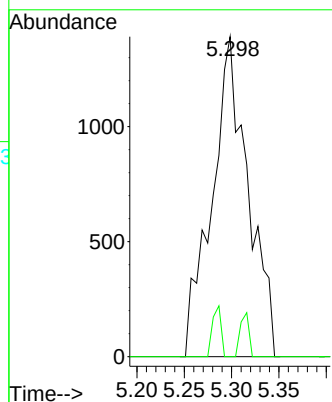
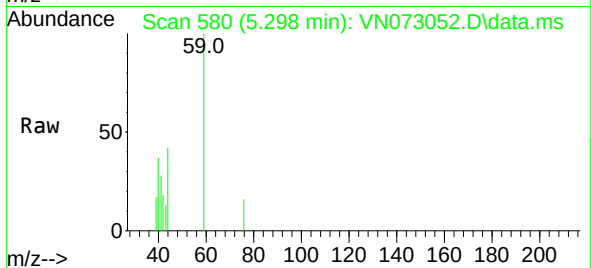
MW-7A

Tgt Ion: 59 Resp: 3703

Ion Ratio Lower Upper

59 100

57 0.0 8.3 12.5#



#13

Acrolein

Concen: 0.305 ug/l

RT: 3.993 min Scan# 358

Delta R.T. 0.012 min

Lab File: VN073052.D

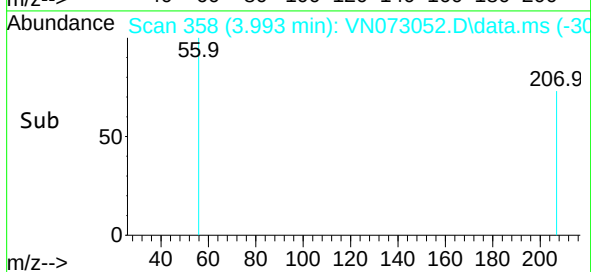
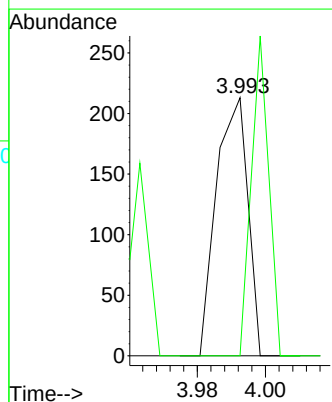
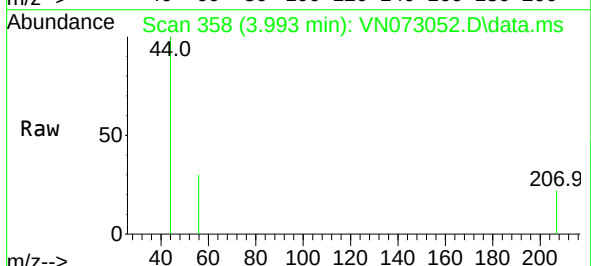
Acq: 23 Jun 2022 16:40

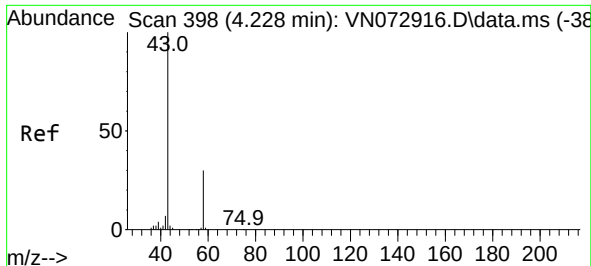
Tgt Ion: 56 Resp: 136

Ion Ratio Lower Upper

56 100

55 68.4 54.8 82.2





#16

Acetone

Concen: 37.645 ug/l

RT: 4.234 min Scan# 398

Delta R.T. 0.006 min

Lab File: VN073052.D

Acq: 23 Jun 2022 16:40

Instrument :

MSVOA_N

ClientSampleId :

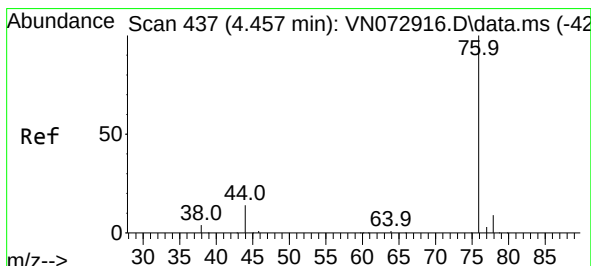
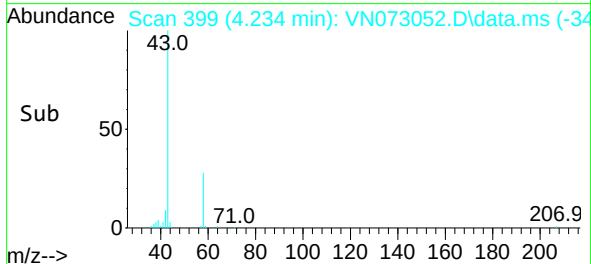
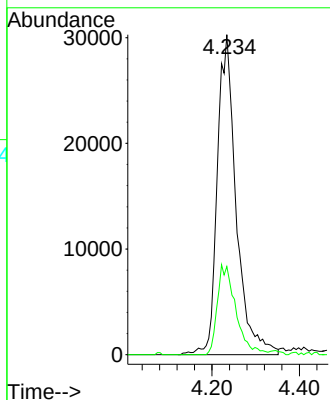
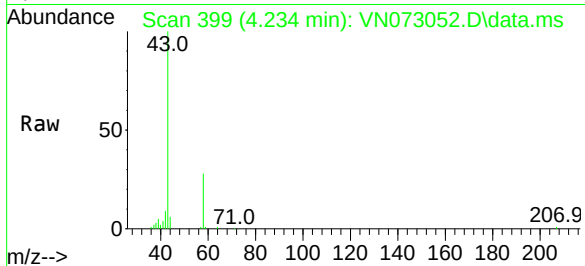
MW-7A

Tgt Ion: 43 Resp: 90614

Ion Ratio Lower Upper

43 100

58 27.6 26.0 39.0



#17

Carbon Disulfide

Concen: 0.628 ug/l

RT: 4.481 min Scan# 441

Delta R.T. 0.024 min

Lab File: VN073052.D

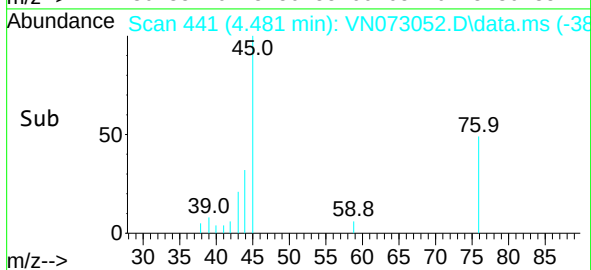
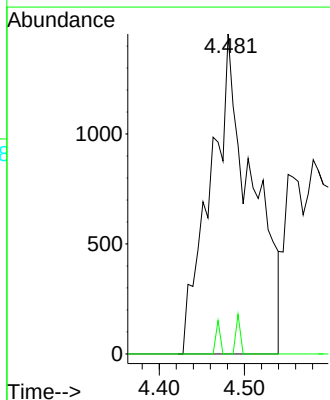
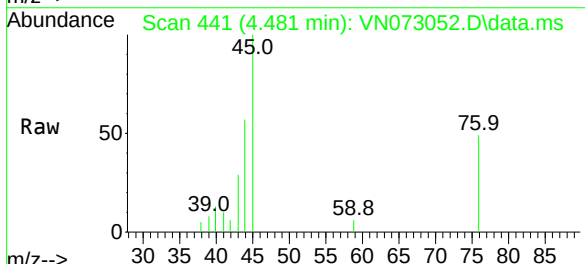
Acq: 23 Jun 2022 16:40

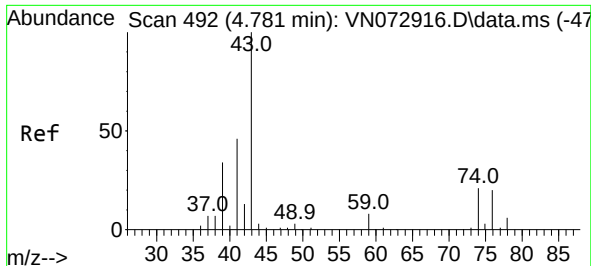
Tgt Ion: 76 Resp: 4987

Ion Ratio Lower Upper

76 100

78 0.0 7.2 10.8#

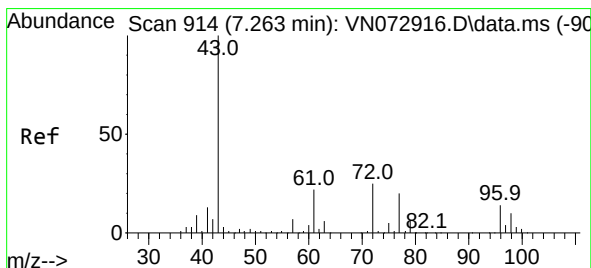
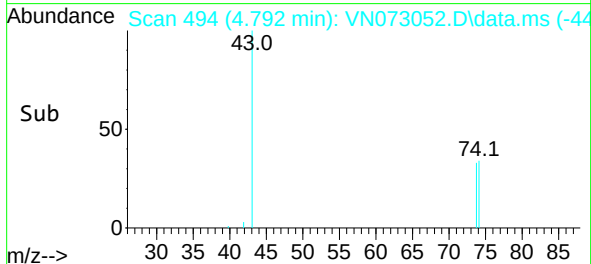
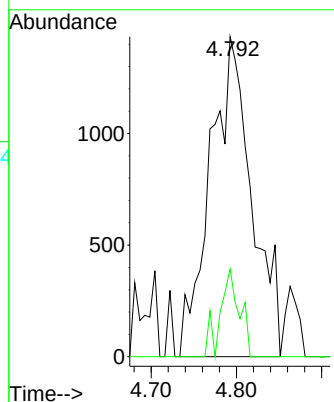
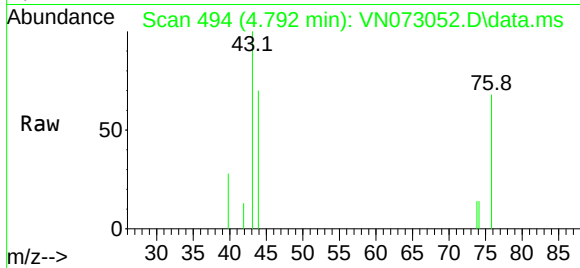




#18
Methyl Acetate
Concen: 0.760 ug/l
RT: 4.792 min Scan# 494
Delta R.T. 0.012 min
Lab File: VN073052.D
Acq: 23 Jun 2022 16:40

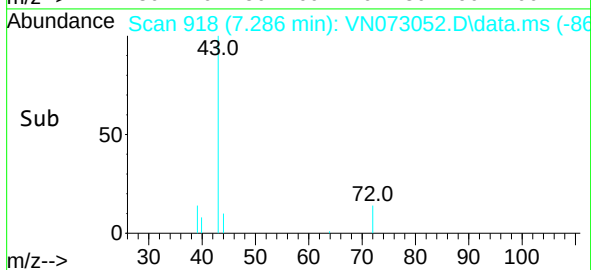
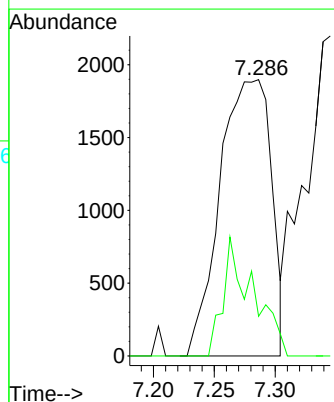
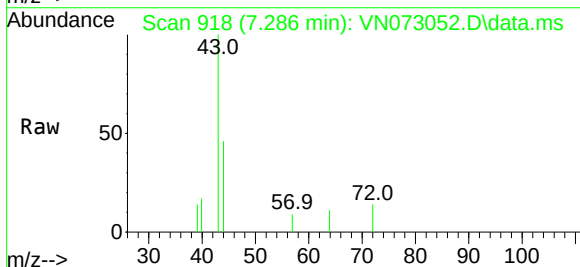
Instrument :
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ClientSampleId :
MW-7A

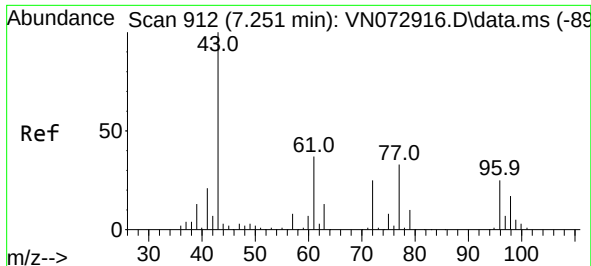
Tgt Ion: 43 Resp: 4869
Ion Ratio Lower Upper
43 100
74 12.7 21.6 32.4#



#25
2-Butanone
Concen: 1.460 ug/l
RT: 7.286 min Scan# 918
Delta R.T. 0.024 min
Lab File: VN073052.D
Acq: 23 Jun 2022 16:40

Tgt Ion: 43 Resp: 5576
Ion Ratio Lower Upper
43 100
72 14.3 23.7 35.5#

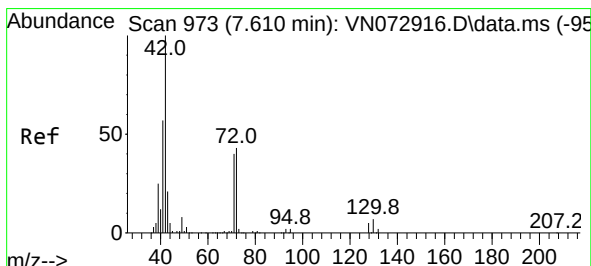
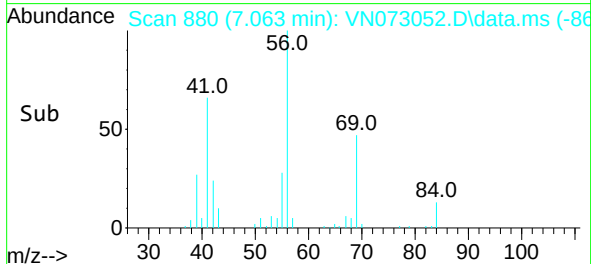
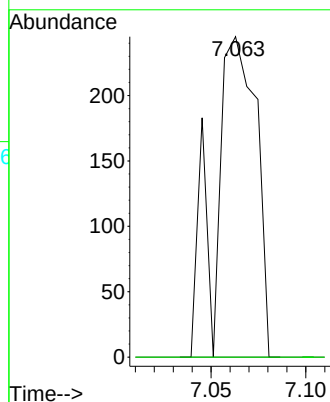
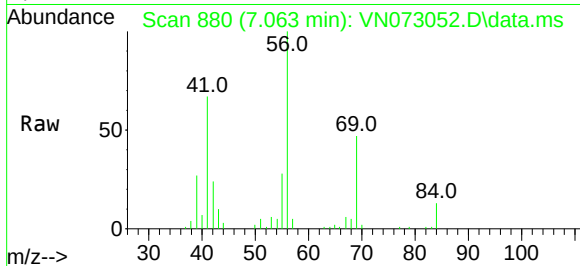




#26
2,2-Dichloropropane
Concen: Below Cal
RT: 7.063 min Scan# 81
Delta R.T. -0.188 min
Lab File: VN073052.D
Acq: 23 Jun 2022 16:40

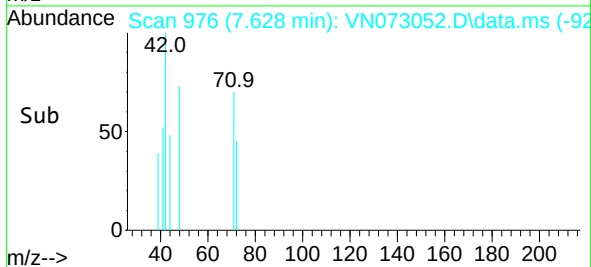
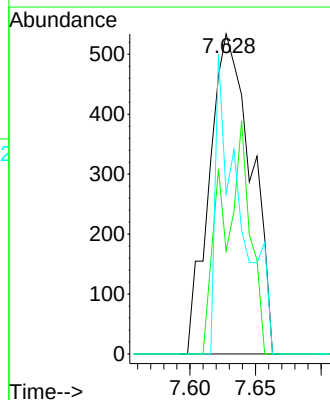
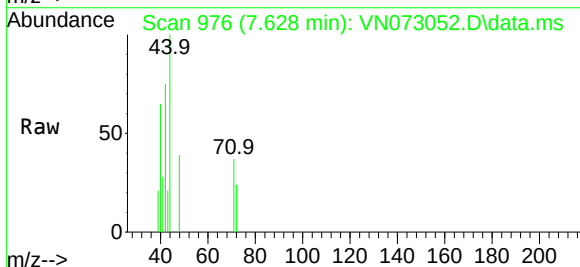
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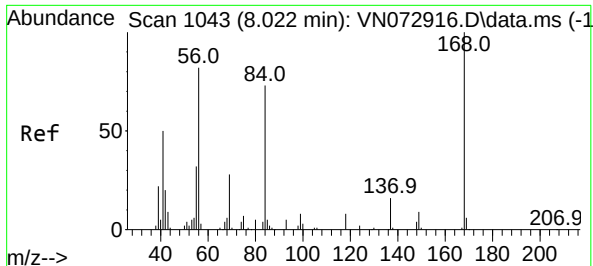
Tgt Ion: 77 Resp: 374
Ion Ratio Lower Upper
77 100
97 0.0 11.4 34.2#



#29
Tetrahydrofuran
Concen: 0.470 ug/l
RT: 7.628 min Scan# 976
Delta R.T. 0.018 min
Lab File: VN073052.D
Acq: 23 Jun 2022 16:40

Tgt Ion: 42 Resp: 1185
Ion Ratio Lower Upper
42 100
72 48.2 39.7 59.5
71 53.8 36.6 55.0

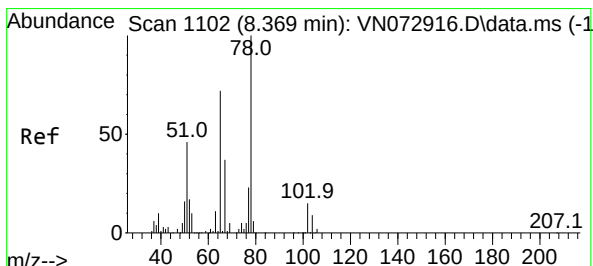
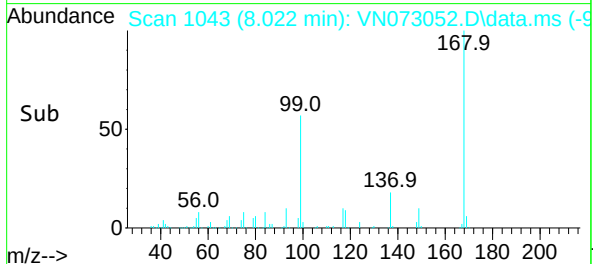
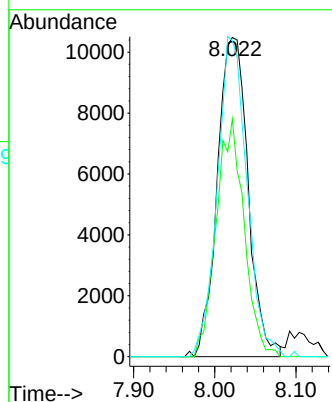
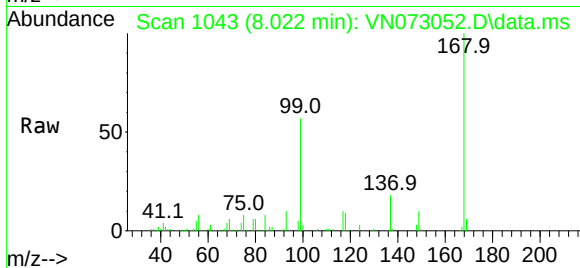




#31
Cyclohexane
Concen: 4.654 ug/l
RT: 8.022 min Scan# 1043
Delta R.T. 0.000 min
Lab File: VN073052.D
Acq: 23 Jun 2022 16:40

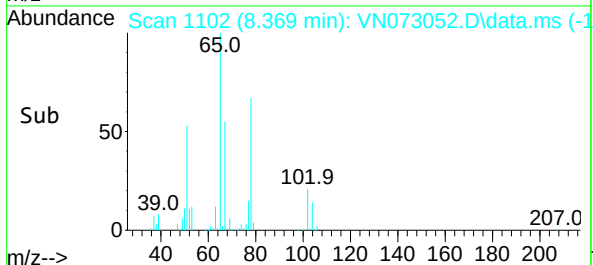
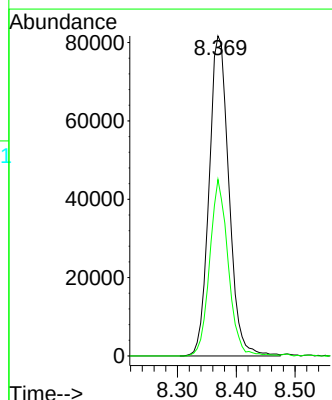
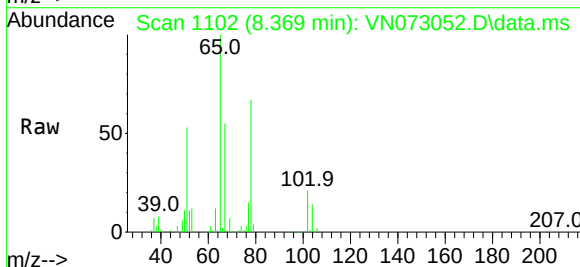
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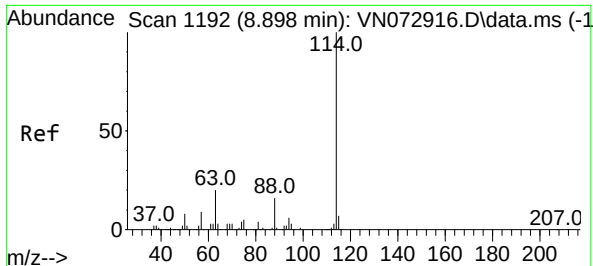
Tgt Ion: 56 Resp: 27569
Ion Ratio Lower Upper
56 100
69 74.4 27.8 41.8#
84 99.0 76.9 115.3



#33
1,2-Dichloroethane-d4
Concen: 43.661 ug/l
RT: 8.369 min Scan# 1102
Delta R.T. 0.000 min
Lab File: VN073052.D
Acq: 23 Jun 2022 16:40

Tgt Ion: 65 Resp: 191184
Ion Ratio Lower Upper
65 100
67 51.6 0.0 104.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.904 min Scan# 1192

Delta R.T. 0.006 min

Lab File: VN073052.D

Acq: 23 Jun 2022 16:40

Instrument :

MSVOA_N

ClientSampleId :

MW-7A

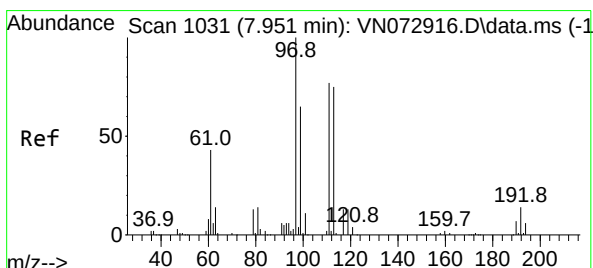
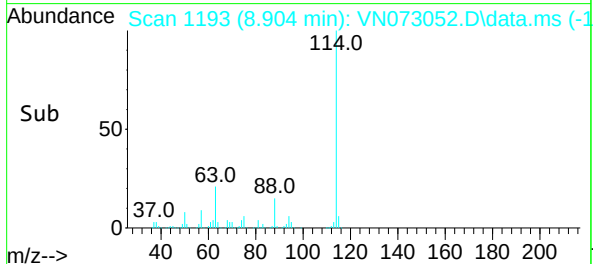
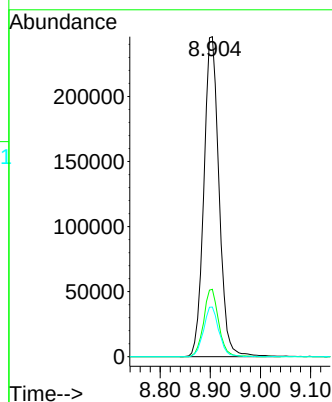
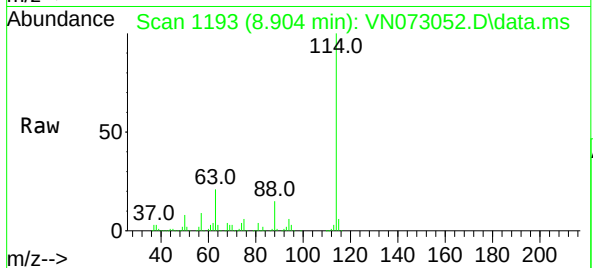
Tgt Ion:114 Resp: 517247

Ion Ratio Lower Upper

114 100

63 21.0 0.0 40.0

88 15.5 0.0 32.6



#35

Dibromofluoromethane

Concen: 50.525 ug/l

RT: 7.951 min Scan# 1031

Delta R.T. 0.000 min

Lab File: VN073052.D

Acq: 23 Jun 2022 16:40

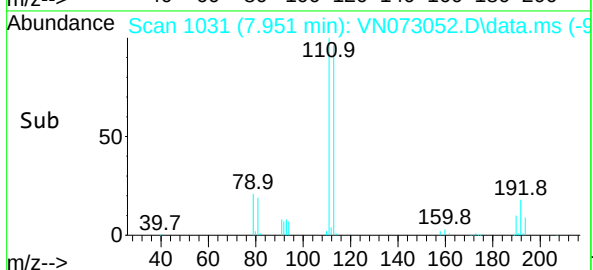
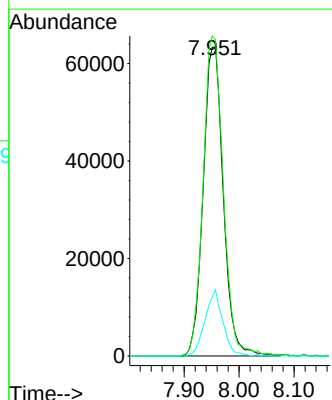
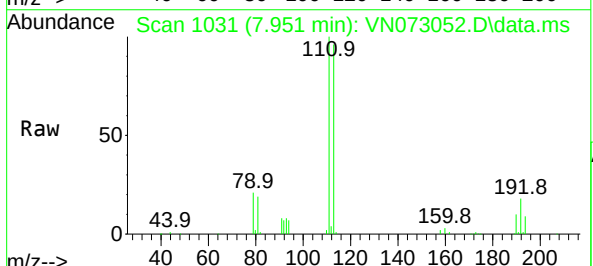
Tgt Ion:113 Resp: 161532

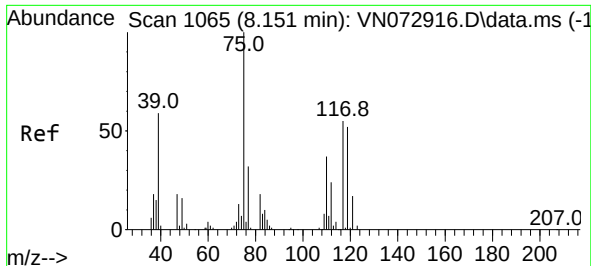
Ion Ratio Lower Upper

113 100

111 104.1 81.4 122.0

192 18.9 17.0 25.6





#36

1,1-Dichloropropene

Concen: 5.818 ug/l

RT: 8.016 min Scan# 1

Delta R.T. -0.135 min

Lab File: VN073052.D

Acq: 23 Jun 2022 16:40

Instrument :

MSVOA_N

ClientSampleId :

MW-7A

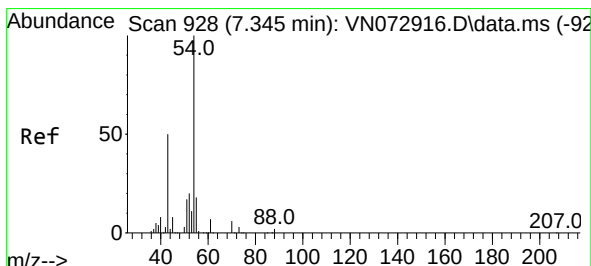
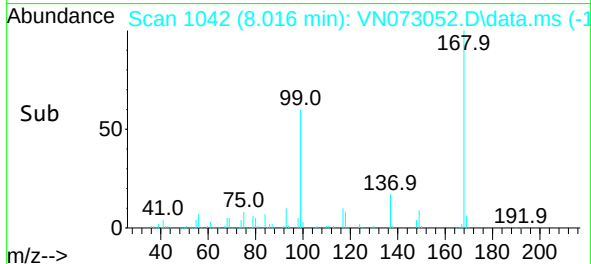
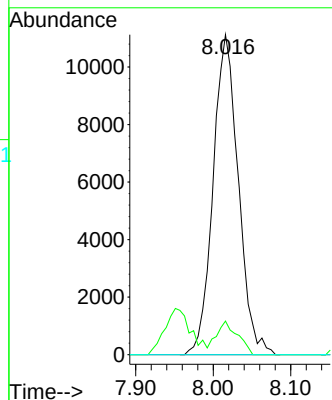
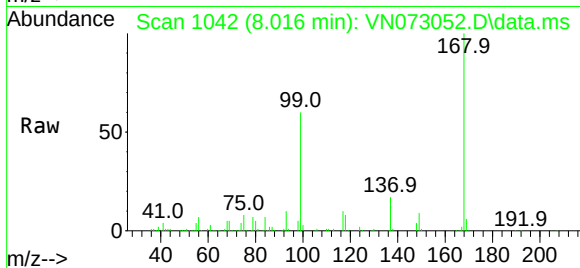
Tgt Ion: 75 Resp: 25167

Ion Ratio Lower Upper

75 100

110 8.8 18.3 54.8#

77 0.0 25.1 37.7#



#37

Ethyl Acetate

Concen: 0.927 ug/l

RT: 7.345 min Scan# 928

Delta R.T. 0.000 min

Lab File: VN073052.D

Acq: 23 Jun 2022 16:40

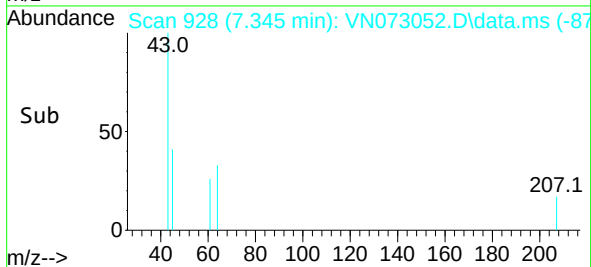
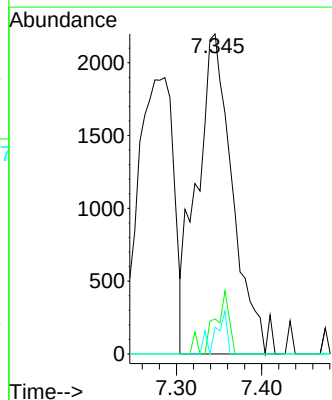
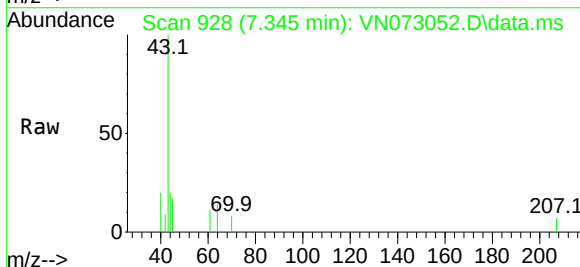
Tgt Ion: 43 Resp: 6417

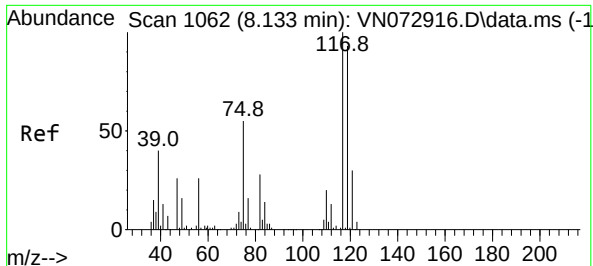
Ion Ratio Lower Upper

43 100

61 7.3 11.8 17.6#

70 4.4 9.3 13.9#

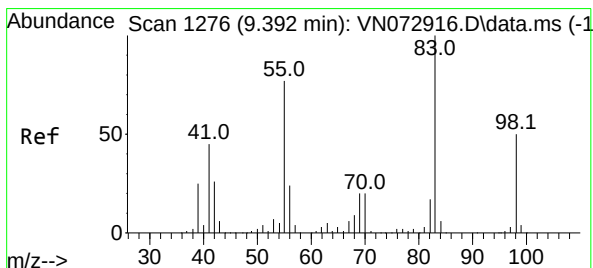
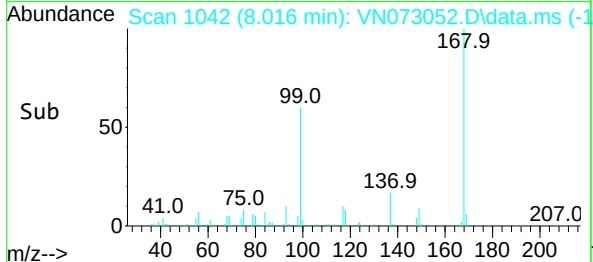
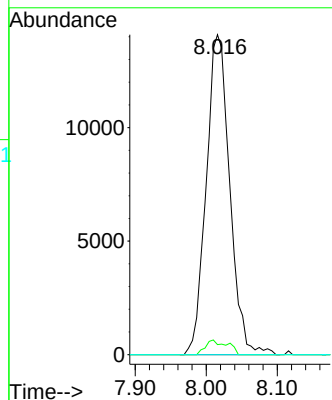
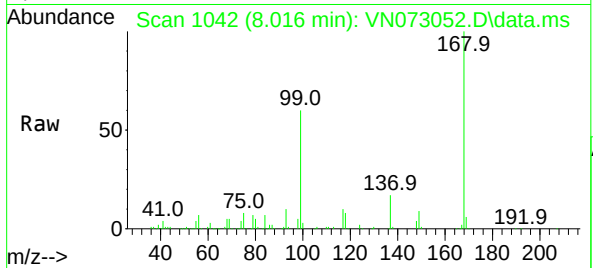




#38
Carbon Tetrachloride
Concen: 7.131 ug/l
RT: 8.016 min Scan# 1042
Delta R.T. -0.118 min
Lab File: VN073052.D
Acq: 23 Jun 2022 16:40

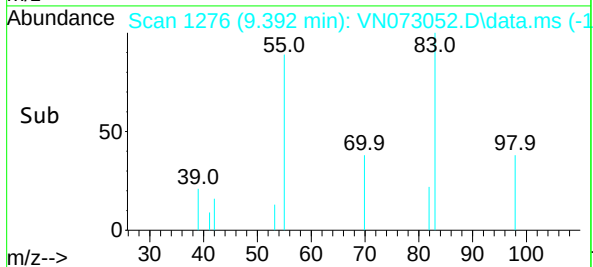
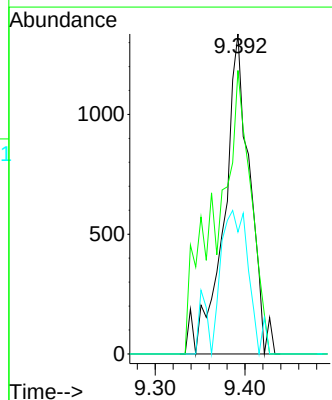
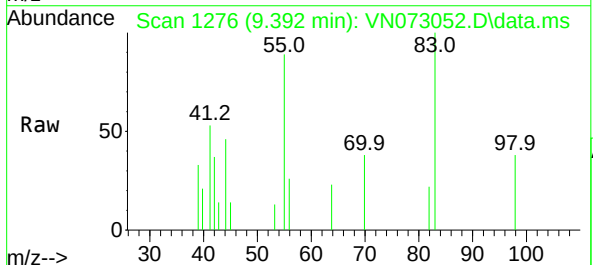
Instrument :
MSVOA_N
ClientSampleId :
MW-7A

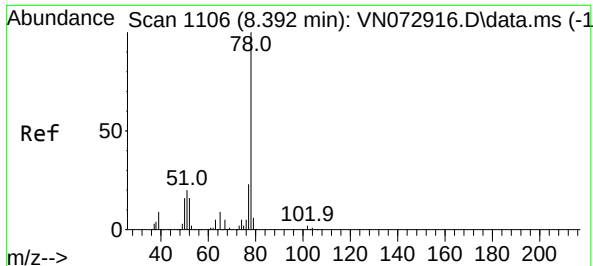
Tgt Ion:117 Resp: 32450
Ion Ratio Lower Upper
117 100
119 3.1 75.8 113.8#
121 0.0 24.6 37.0#



#39
Methylcyclohexane
Concen: 0.511 ug/l
RT: 9.392 min Scan# 1276
Delta R.T. 0.000 min
Lab File: VN073052.D
Acq: 23 Jun 2022 16:40

Tgt Ion: 83 Resp: 2666
Ion Ratio Lower Upper
83 100
55 88.6 57.8 86.8#
98 38.1 39.4 59.2#

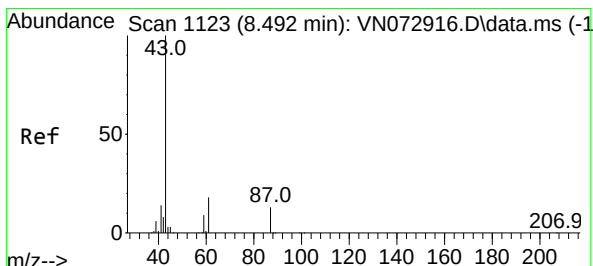
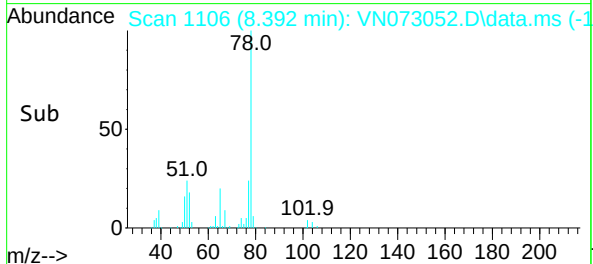
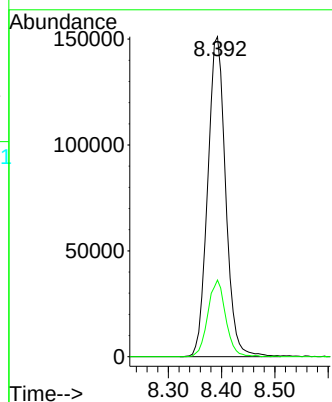
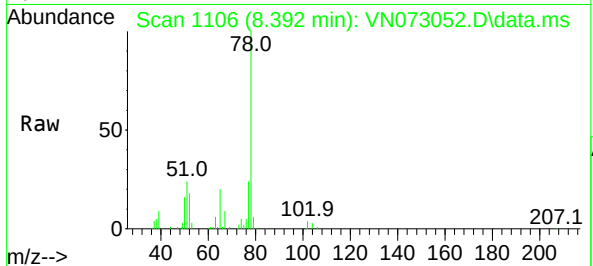




#40
Benzene
Concen: 25.956 ug/l
RT: 8.392 min Scan# 1106
Delta R.T. 0.000 min
Lab File: VN073052.D
Acq: 23 Jun 2022 16:40

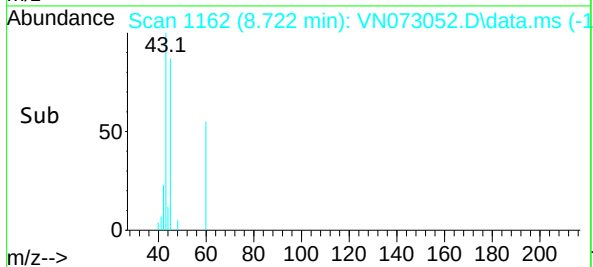
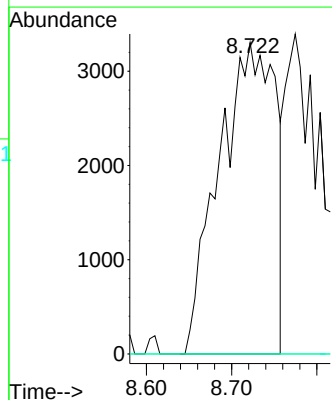
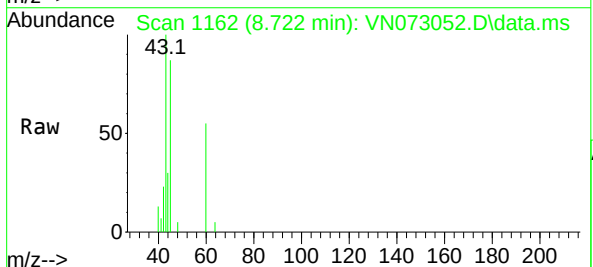
Instrument :
MSVOA_N
ClientSampleId :
MW-7A

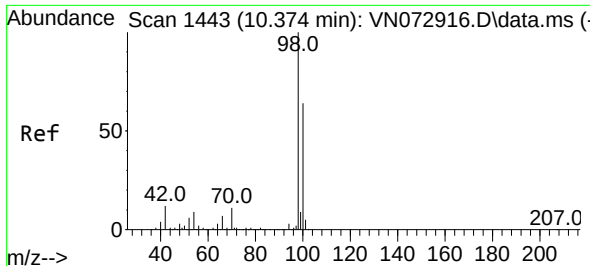
Tgt Ion: 78 Resp: 352882
Ion Ratio Lower Upper
78 100
77 24.0 19.4 29.0



#43
Isopropyl Acetate
Concen: 1.535 ug/l
RT: 8.722 min Scan# 1162
Delta R.T. 0.229 min
Lab File: VN073052.D
Acq: 23 Jun 2022 16:40

Tgt Ion: 43 Resp: 15184
Ion Ratio Lower Upper
43 100
61 0.0 21.9 32.9#
87 0.0 12.0 18.0#

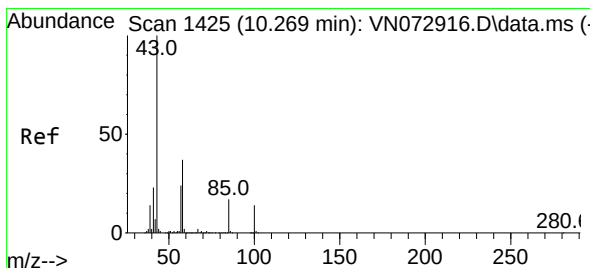
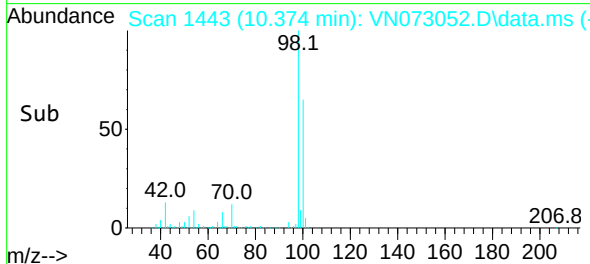
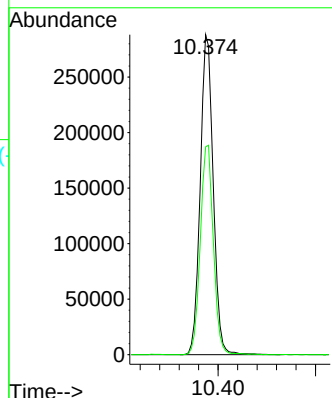
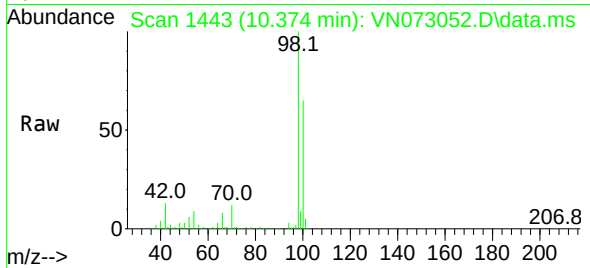




#50
Toluene-d8
Concen: 44.811 ug/l
RT: 10.374 min Scan# 1443
Delta R.T. 0.000 min
Lab File: VN073052.D
Acq: 23 Jun 2022 16:40

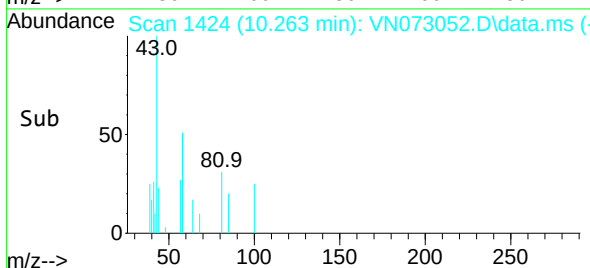
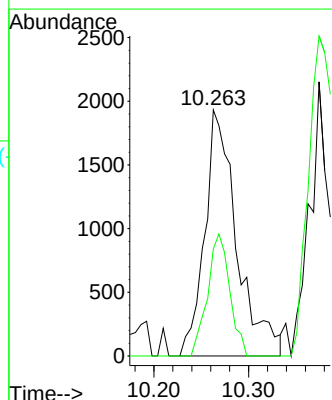
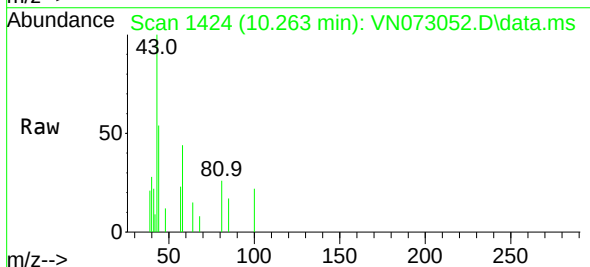
Instrument :
MSVOA_N
ClientSampleId :
MW-7A

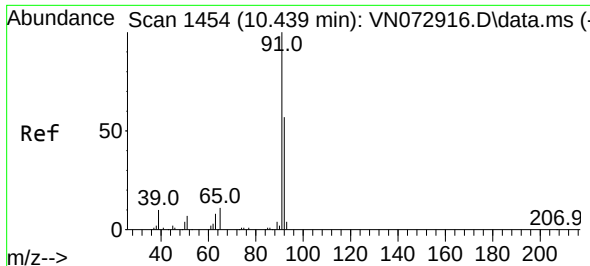
Tgt Ion: 98 Resp: 533091
Ion Ratio Lower Upper
98 100
100 65.9 52.6 78.8



#51
4-Methyl-2-Pentanone
Concen: 0.707 ug/l
RT: 10.263 min Scan# 1424
Delta R.T. -0.006 min
Lab File: VN073052.D
Acq: 23 Jun 2022 16:40

Tgt Ion: 43 Resp: 4559
Ion Ratio Lower Upper
43 100
58 34.1 34.1 51.1

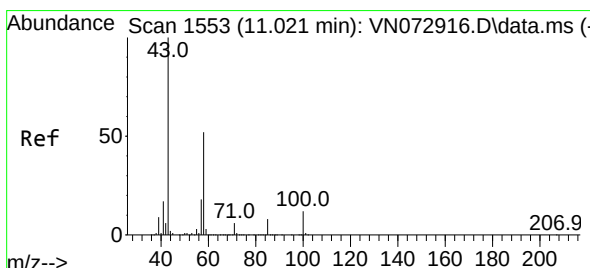
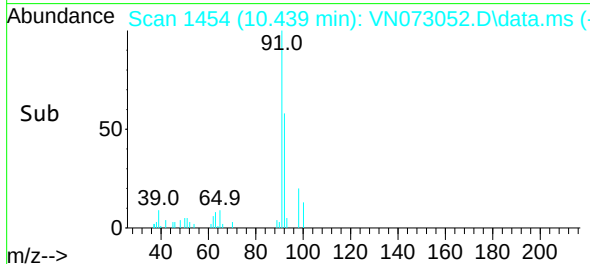
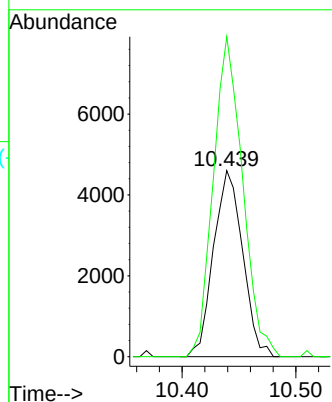
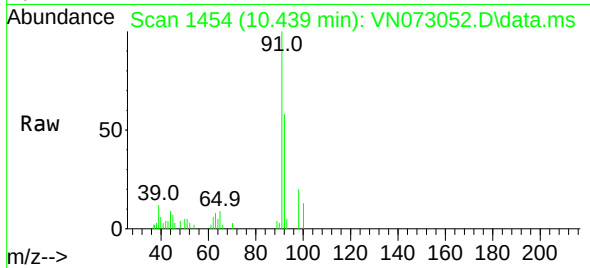




#52
Toluene
Concen: 0.982 ug/l
RT: 10.439 min Scan# 1454
Delta R.T. 0.000 min
Lab File: VN073052.D
Acq: 23 Jun 2022 16:40

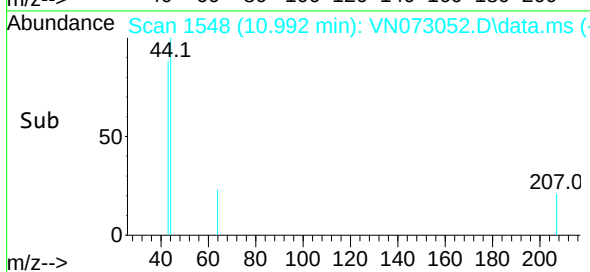
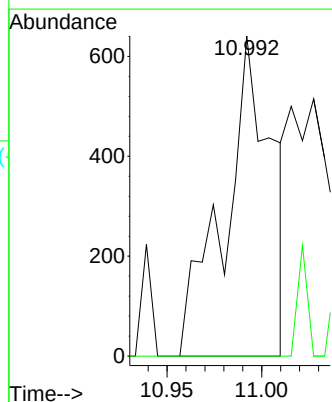
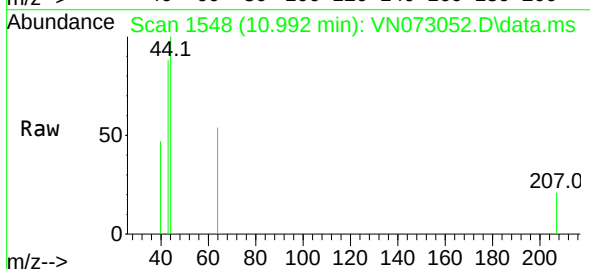
Instrument :
MSVOA_N
ClientSampleId :
MW-7A

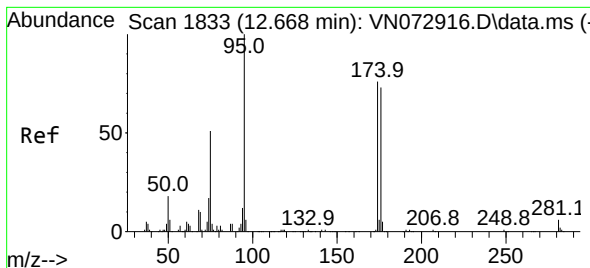
Tgt Ion: 92 Resp: 8197
Ion Ratio Lower Upper
92 100
91 172.9 138.6 207.8



#59
2-Hexanone
Concen: 0.222 ug/l
RT: 10.992 min Scan# 1548
Delta R.T. -0.029 min
Lab File: VN073052.D
Acq: 23 Jun 2022 16:40

Tgt Ion: 43 Resp: 1105
Ion Ratio Lower Upper
43 100
58 0.0 29.7 89.1#

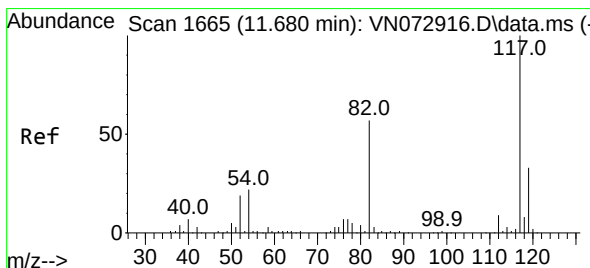
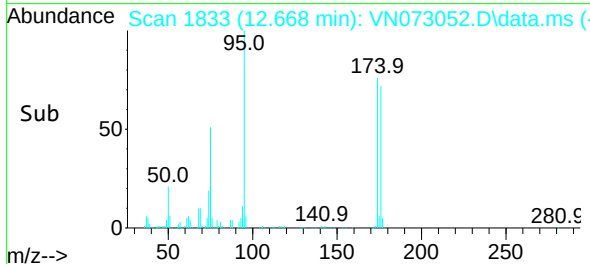
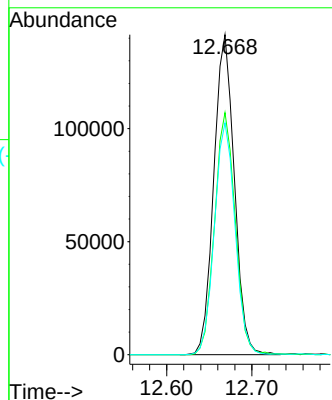
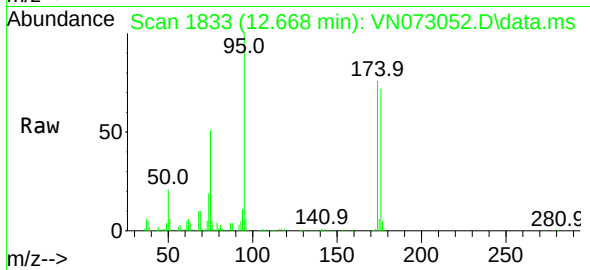




#62
4-Bromofluorobenzene
Concen: 55.341 ug/l
RT: 12.668 min Scan# 1833
Delta R.T. 0.000 min
Lab File: VN073052.D
Acq: 23 Jun 2022 16:40

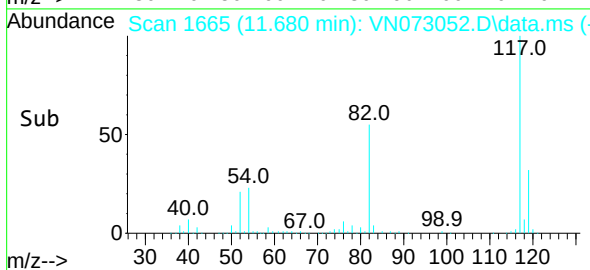
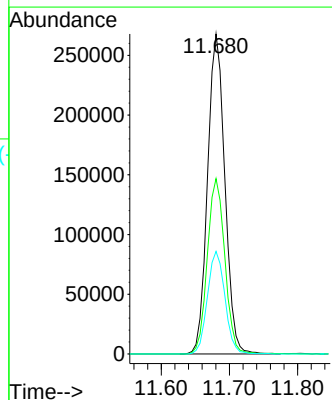
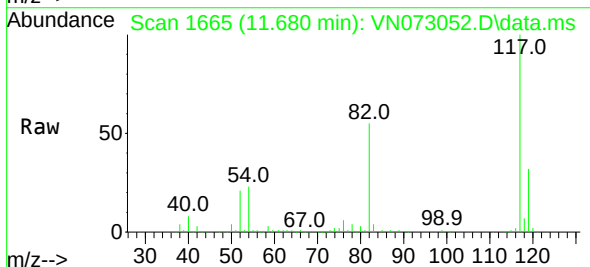
Instrument :
MSVOA_N
ClientSampleId :
MW-7A

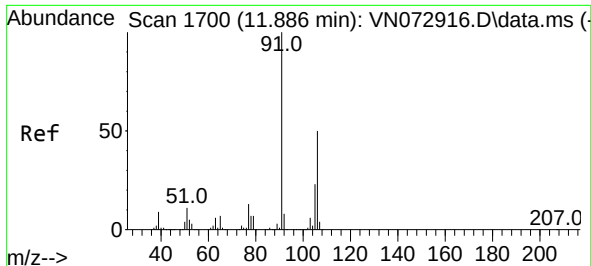
Tgt Ion: 95 Resp: 236734
Ion Ratio Lower Upper
95 100
174 76.3 0.0 167.6
176 72.9 0.0 163.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.680 min Scan# 1665
Delta R.T. 0.000 min
Lab File: VN073052.D
Acq: 23 Jun 2022 16:40

Tgt Ion: 117 Resp: 473648
Ion Ratio Lower Upper
117 100
82 54.8 44.2 66.2
119 32.1 25.4 38.0

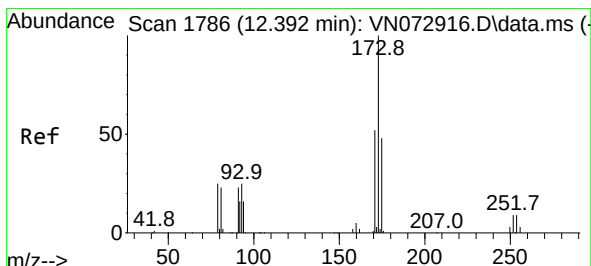
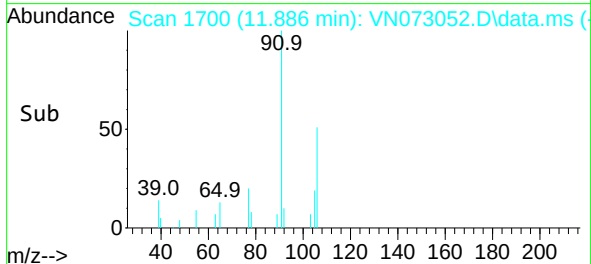
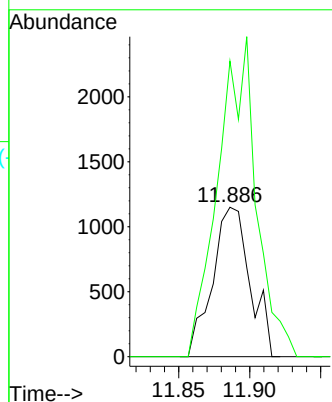
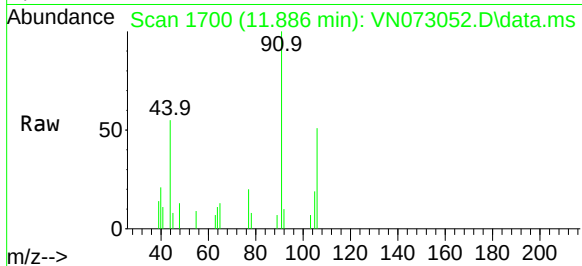




#68
m/p-Xylenes
Concen: 0.332 ug/l
RT: 11.886 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN073052.D
Acq: 23 Jun 2022 16:40

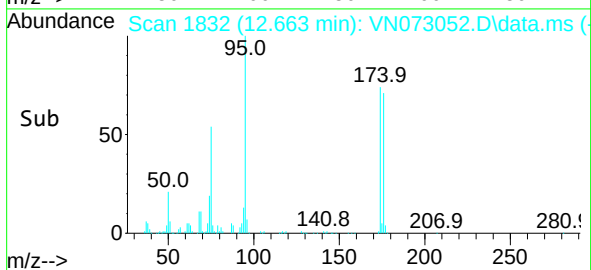
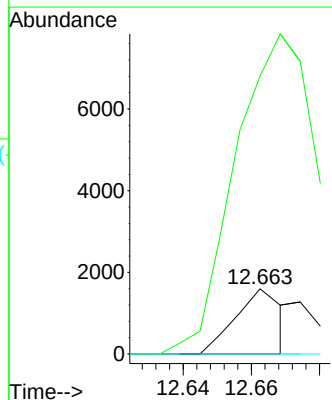
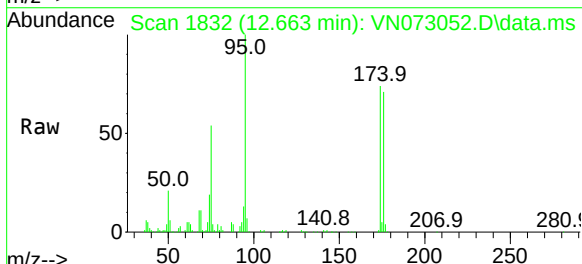
Instrument :
MSVOA_N
ClientSampleId :
MW-7A

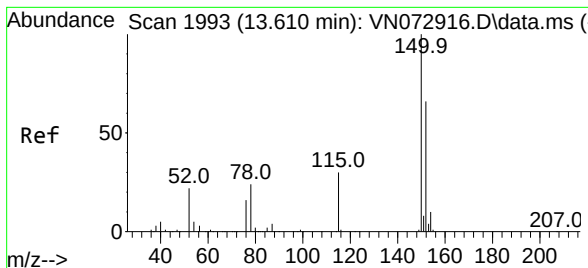
Tgt Ion:106 Resp: 2120
Ion Ratio Lower Upper
106 100
91 216.7 158.9 238.3



#71
Bromoform
Concen: 0.568 ug/l
RT: 12.663 min Scan# 1832
Delta R.T. 0.271 min
Lab File: VN073052.D
Acq: 23 Jun 2022 16:40

Tgt Ion:173 Resp: 1509
Ion Ratio Lower Upper
173 100
175 0.0 24.6 73.6#
254 0.0 0.1 0.1#





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.610 min Scan# 1993

Delta R.T. 0.000 min

Lab File: VN073052.D

Acq: 23 Jun 2022 16:40

Instrument :

MSVOA_N

ClientSampleId :

MW-7A

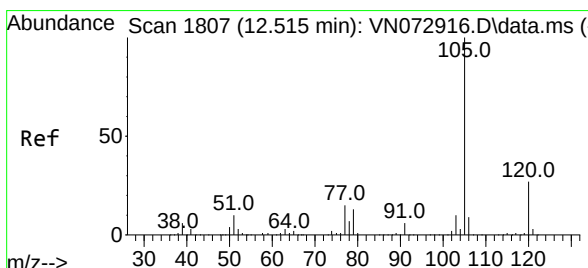
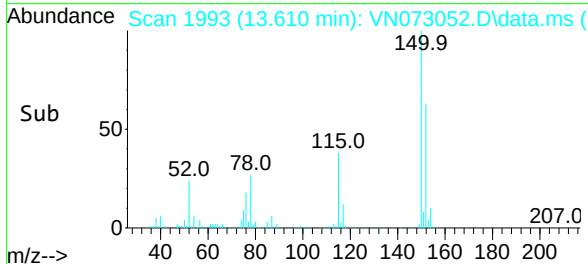
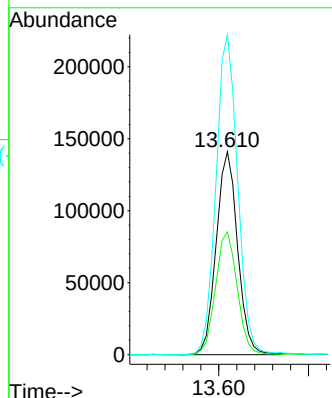
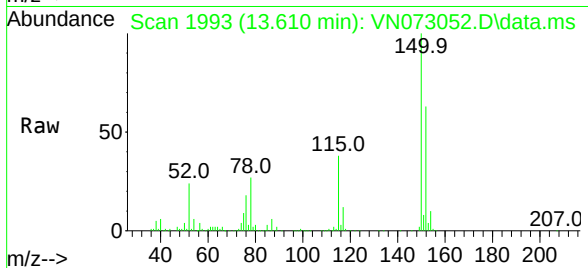
Tgt Ion:152 Resp: 233467

Ion Ratio Lower Upper

152 100

115 61.5 28.9 86.7

150 160.1 0.0 356.2



#73

Isopropylbenzene

Concen: 0.584 ug/l

RT: 12.515 min Scan# 1807

Delta R.T. 0.000 min

Lab File: VN073052.D

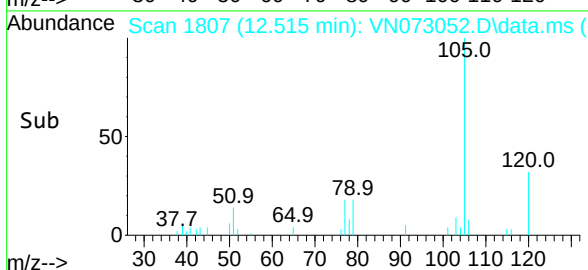
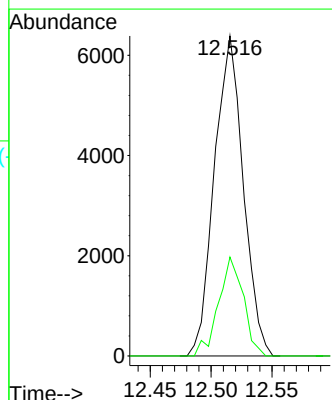
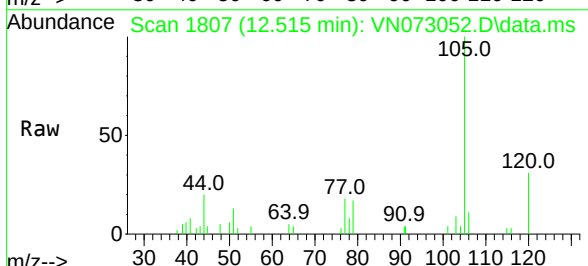
Acq: 23 Jun 2022 16:40

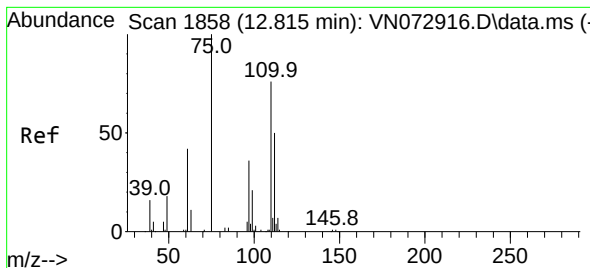
Tgt Ion:105 Resp: 10540

Ion Ratio Lower Upper

105 100

120 26.5 13.5 40.4





#76

1,2,3-Trichloropropane

Concen: 21.804 ug/l

RT: 12.668 min Scan# 1833

Delta R.T. -0.147 min

Lab File: VN073052.D

Acq: 23 Jun 2022 16:40

Instrument :

MSVOA_N

ClientSampleId :

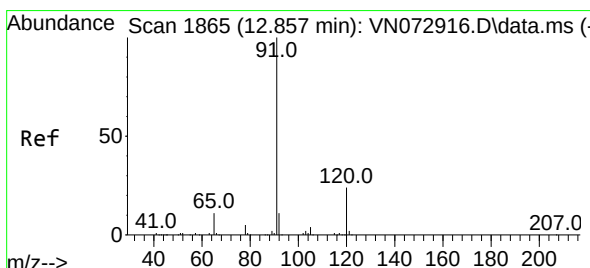
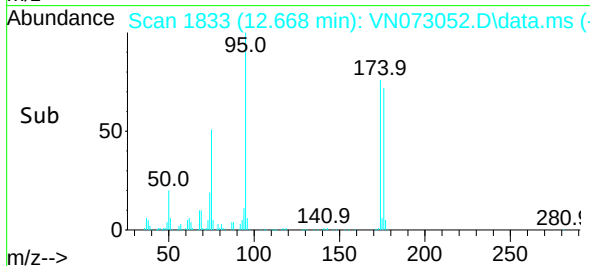
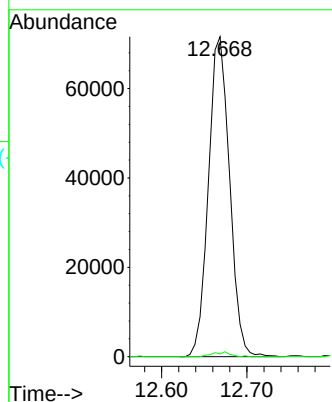
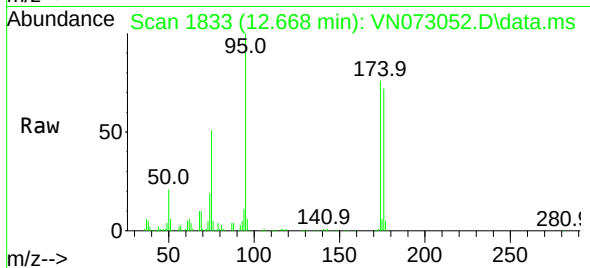
MW-7A

Tgt Ion: 75 Resp: 123418

Ion Ratio Lower Upper

75 100

77 1.3 98.5 295.5#



#78

n-propylbenzene

Concen: 1.083 ug/l

RT: 12.857 min Scan# 1865

Delta R.T. 0.000 min

Lab File: VN073052.D

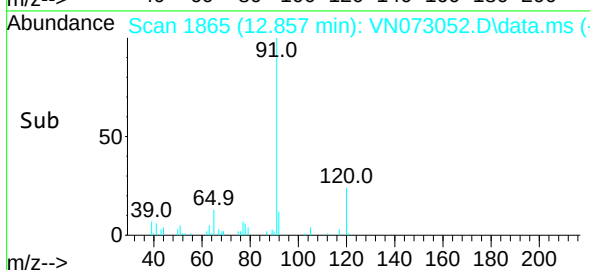
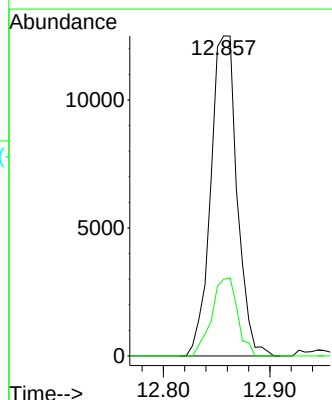
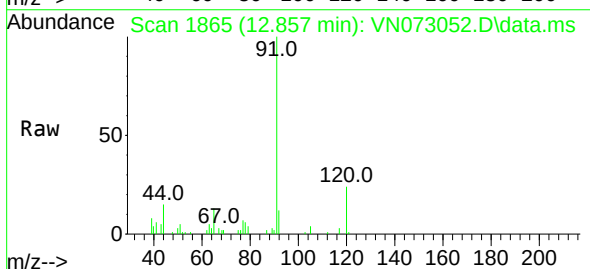
Acq: 23 Jun 2022 16:40

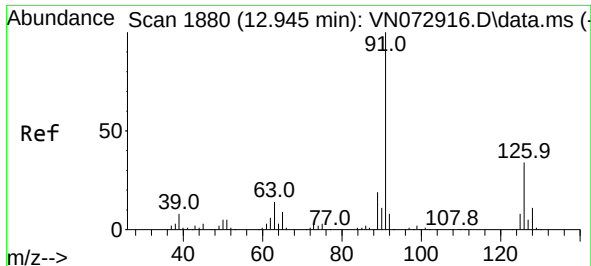
Tgt Ion: 91 Resp: 21523

Ion Ratio Lower Upper

91 100

120 23.7 11.9 35.5

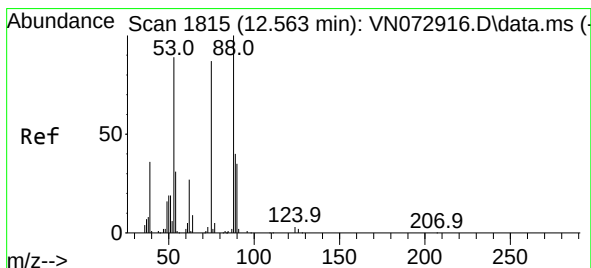
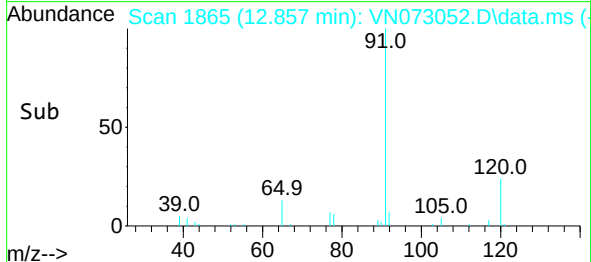
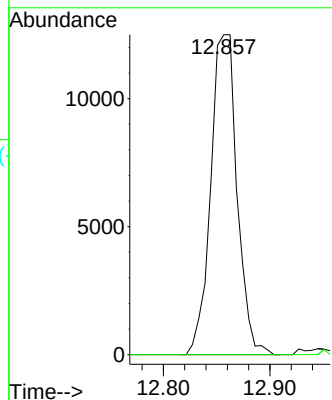
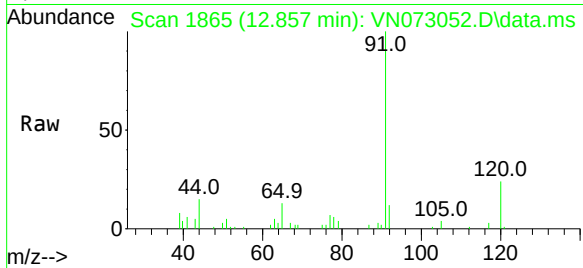




#79
2-Chlorotoluene
Concen: 1.673 ug/l
RT: 12.857 min Scan# 1865
Delta R.T. -0.088 min
Lab File: VN073052.D
Acq: 23 Jun 2022 16:40

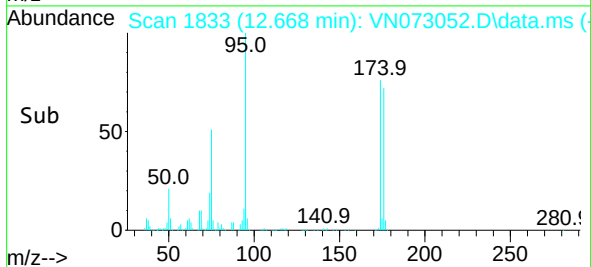
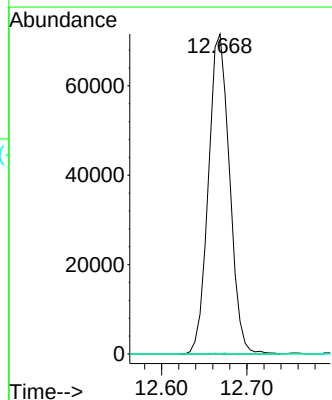
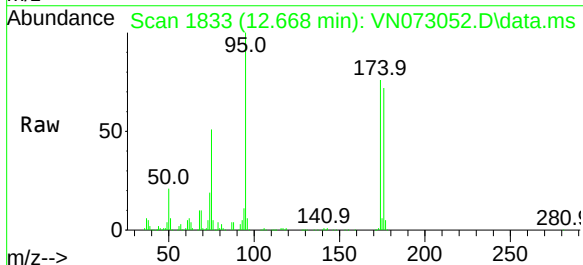
Instrument :
MSVOA_N
ClientSampleId :
MW-7A

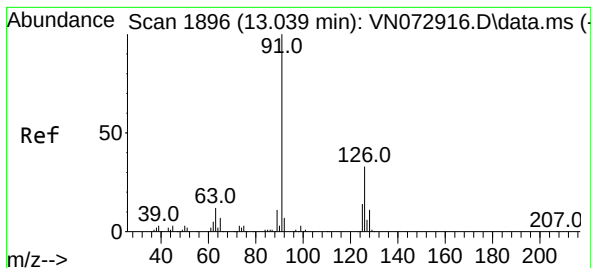
Tgt Ion: 91 Resp: 21523
Ion Ratio Lower Upper
91 100
126 0.0 17.3 51.9#



#81
trans-1,4-Dichloro-2-butene
Concen: 58.884 ug/l
RT: 12.668 min Scan# 1833
Delta R.T. 0.106 min
Lab File: VN073052.D
Acq: 23 Jun 2022 16:40

Tgt Ion: 75 Resp: 123418
Ion Ratio Lower Upper
75 100
53 0.1 78.0 117.0#
89 0.1 37.2 55.8#

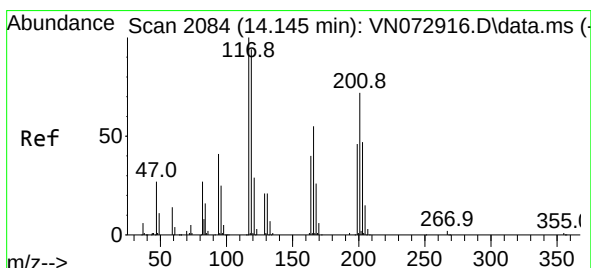
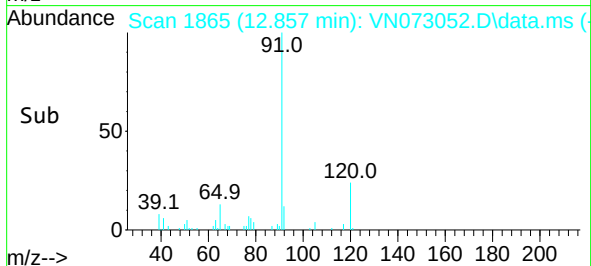
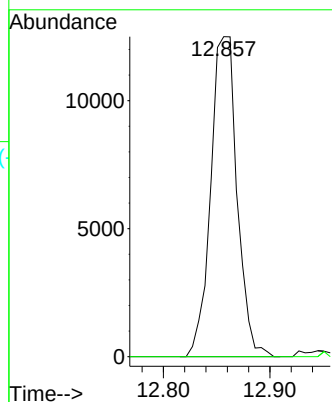
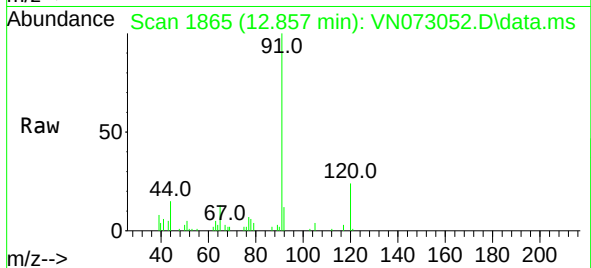




#82
4-Chlorotoluene
Concen: 1.768 ug/l
RT: 12.857 min Scan# 11
Delta R.T. -0.182 min
Lab File: VN073052.D
Acq: 23 Jun 2022 16:40

Instrument :
MSVOA_N
ClientSampleId :
MW-7A

Tgt Ion: 91 Resp: 21523
Ion Ratio Lower Upper
91 100
126 0.0 17.2 51.6#



#90
Hexachloroethane
Concen: 3.881 ug/l
RT: 14.262 min Scan# 2104
Delta R.T. 0.118 min
Lab File: VN073052.D
Acq: 23 Jun 2022 16:40

Tgt Ion: 117 Resp: 10736
Ion Ratio Lower Upper
117 100
201 0.0 40.6 122.0#

