

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN062122\
 Data File : VN072993.D
 Acq On : 21 Jun 2022 19:10
 Operator : JC\MD
 Sample : N3381-03
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MW-6

Quant Time: Jun 22 07:02:45 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)

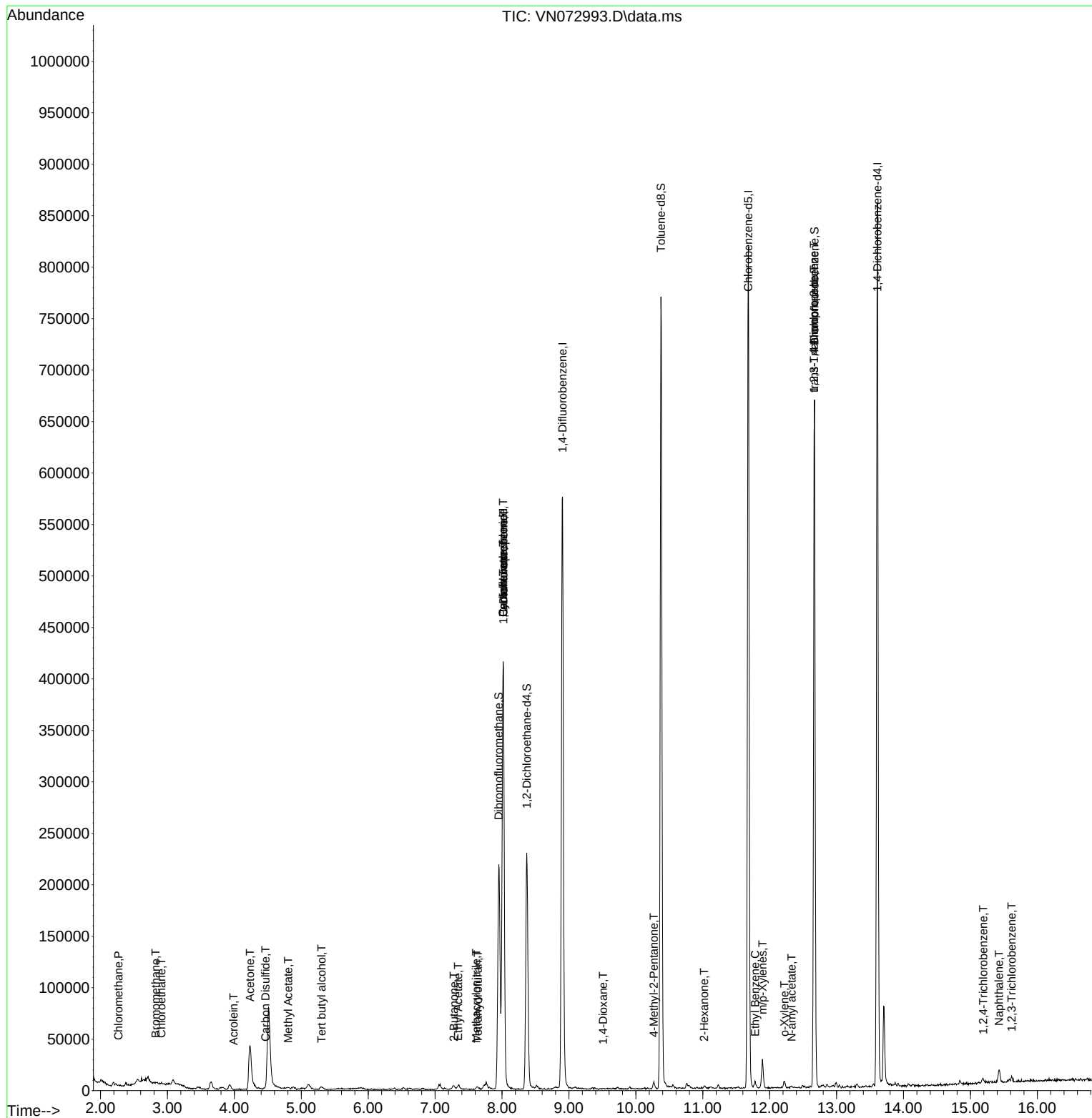
Internal Standards						
1) Pentafluorobenzene	8.016	168	317782	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.904	114	508972	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.680	117	471201	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.610	152	228137	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.369	65	191425	44.555	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	89.120%		
35) Dibromofluoromethane	7.951	113	163081	51.839	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	103.680%		
50) Toluene-d8	10.375	98	534588	45.668	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	91.340%		
62) 4-Bromofluorobenzene	12.669	95	231015	54.882	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	109.760%		
Target Compounds						
					Qvalue	
3) Chloromethane	2.269	50	578	0.745	ug/l #	43
5) Bromomethane	2.822	94	324	0.303	ug/l #	63
6) Chloroethane	2.910	64	476	0.280	ug/l #	69
11) Tert butyl alcohol	5.304	59	4898	4.413	ug/l #	83
13) Acrolein	3.987	56	218	0.499	ug/l #	16
16) Acetone	4.234	43	82829	35.072	ug/l	97
17) Carbon Disulfide	4.463	76	2275	0.292	ug/l #	75
18) Methyl Acetate	4.804	43	3606	0.573	ug/l #	64
20) Methylene Chloride	5.022	84	353	Below Cal	#	38
25) 2-Butanone	7.281	43	6841	1.825	ug/l	91
29) Tetrahydrofuran	7.640	42	2041	0.825	ug/l #	47
31) Cyclohexane	8.016	56	9038	1.555	ug/l #	15
36) 1,1-Dichloropropene	8.022	75	25337	5.952	ug/l #	49
37) Ethyl Acetate	7.345	43	7518	1.104	ug/l #	88
38) Carbon Tetrachloride	8.016	117	32390	7.234	ug/l #	15
41) Methacrylonitrile	7.616	41	1493	0.462	ug/l #	16
49) 1,4-Dioxane	9.510	88	58	0.580	ug/l #	1
51) 4-Methyl-2-Pentanone	10.269	43	4812	0.758	ug/l #	84
59) 2-Hexanone	11.022	43	2360	0.481	ug/l	69
67) Ethyl Benzene	11.780	91	3781	0.233	ug/l #	75
68) m/p-Xylenes	11.892	106	8677	1.366	ug/l	95
69) o-Xylene	12.222	106	1654	0.261	ug/l	92
74) N-amyl acetate	12.327	43	1992	0.217	ug/l #	52
76) 1,2,3-Trichloropropane	12.663	75	119886	21.675	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.663	75	119886	58.535	ug/l #	10
93) 1,2,4-Trichlorobenzene	15.192	180	1652	0.379	ug/l	98
95) Naphthalene	15.427	128	12727	0.722	ug/l #	96
96) 1,2,3-Trichlorobenzene	15.615	180	2099	0.451	ug/l	98

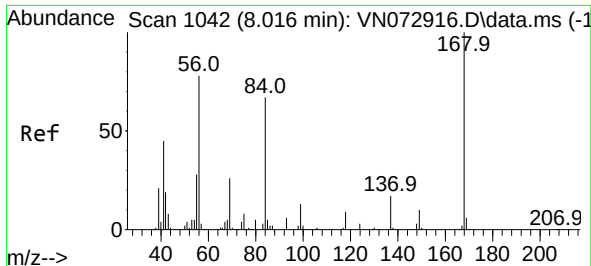
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration

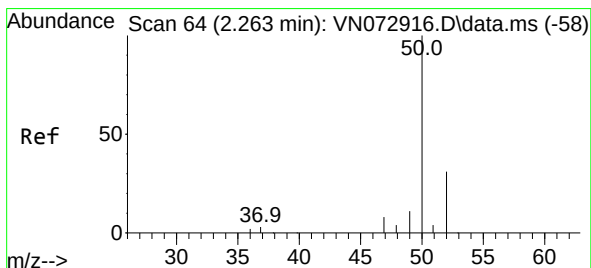
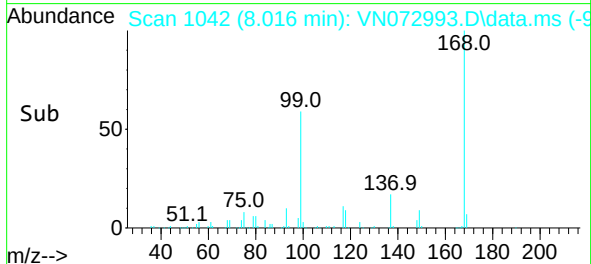
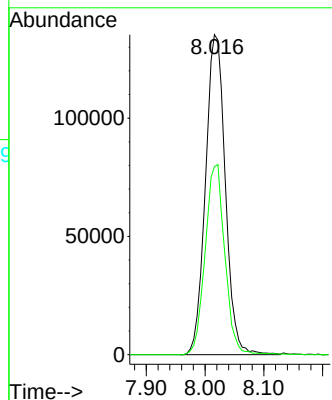
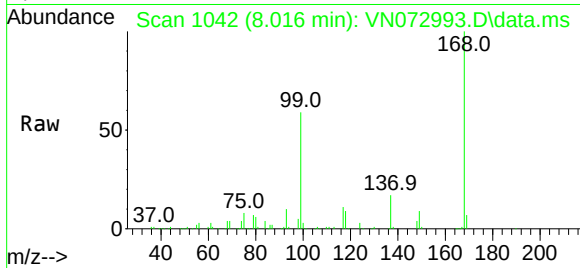




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.016 min Scan# 10
Delta R.T. -0.000 min
Lab File: VN072993.D
Acq: 21 Jun 2022 19:10

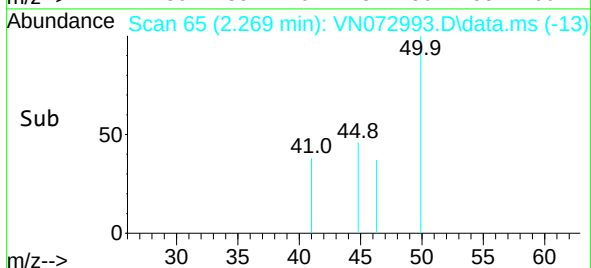
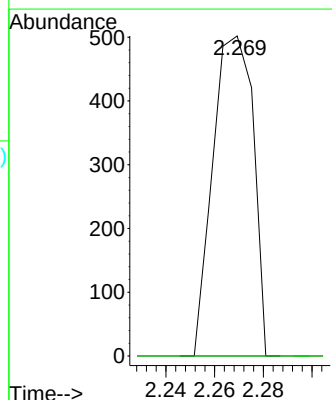
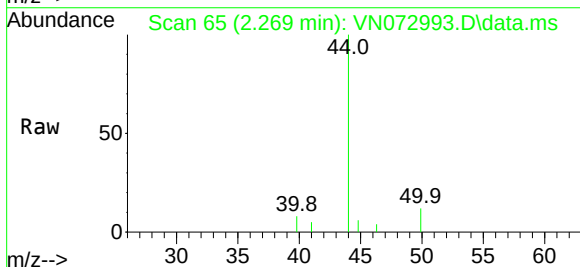
Instrument :
MSVOA_N
ClientSampleId :
MW-6

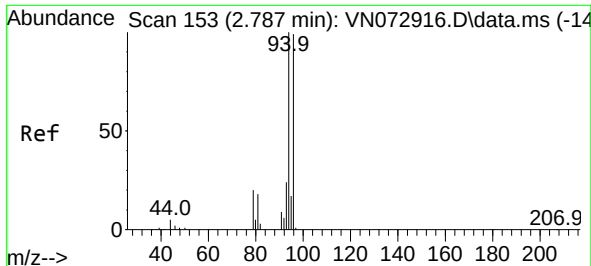
Tgt Ion:168 Resp: 317782
Ion Ratio Lower Upper
168 100
99 58.8 42.3 63.5



#3
Chloromethane
Concen: 0.745 ug/l
RT: 2.269 min Scan# 65
Delta R.T. 0.006 min
Lab File: VN072993.D
Acq: 21 Jun 2022 19:10

Tgt Ion: 50 Resp: 578
Ion Ratio Lower Upper
50 100
52 0.0 25.7 38.5#

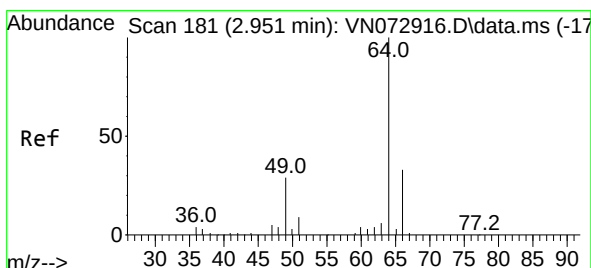
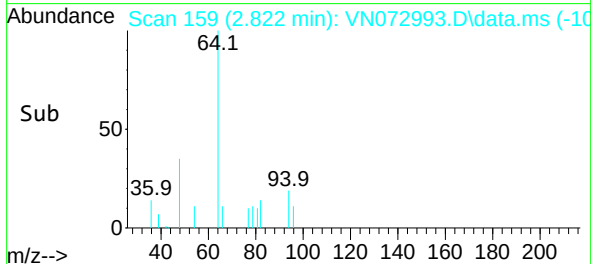
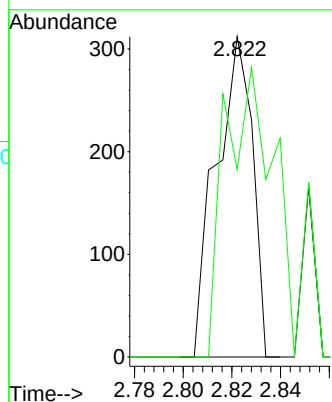
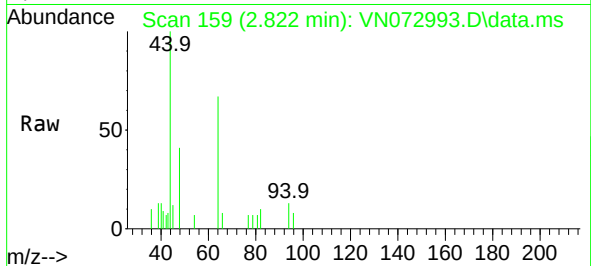




#5
Bromomethane
Concen: 0.303 ug/l
RT: 2.822 min Scan# 11
Delta R.T. 0.035 min
Lab File: VN072993.D
Acq: 21 Jun 2022 19:10

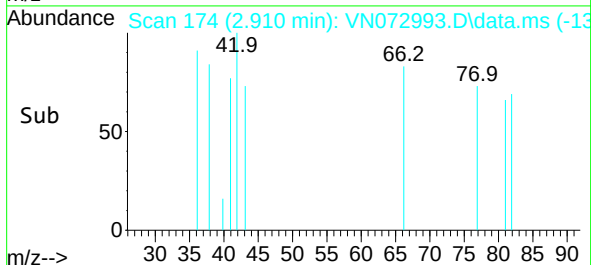
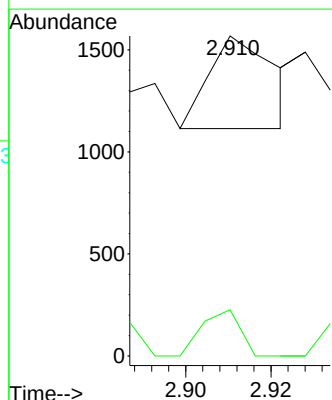
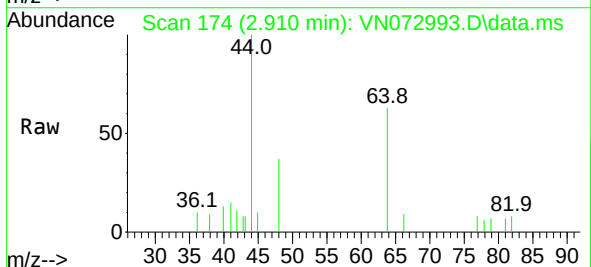
Instrument :
MSVOA_N
ClientSampleId :
MW-6

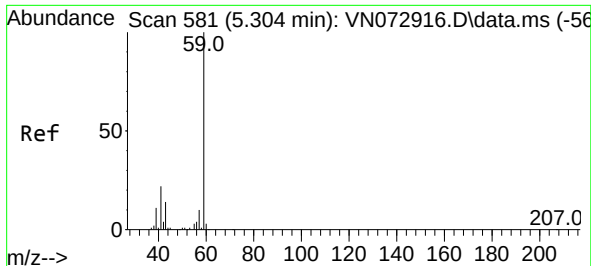
Tgt Ion: 94 Resp: 324
Ion Ratio Lower Upper
94 100
96 58.7 76.0 114.0#



#6
Chloroethane
Concen: 0.280 ug/l
RT: 2.910 min Scan# 174
Delta R.T. -0.041 min
Lab File: VN072993.D
Acq: 21 Jun 2022 19:10

Tgt Ion: 64 Resp: 476
Ion Ratio Lower Upper
64 100
66 50.0 26.2 39.4#

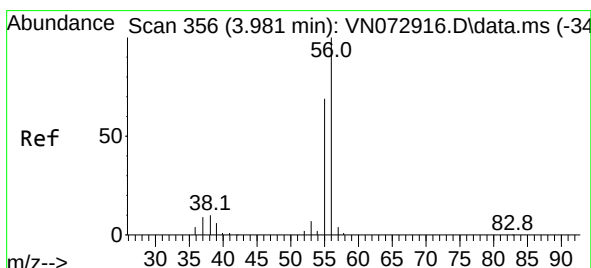
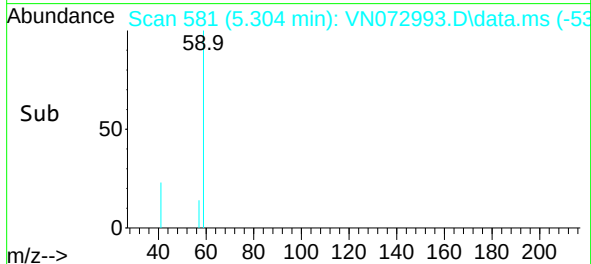
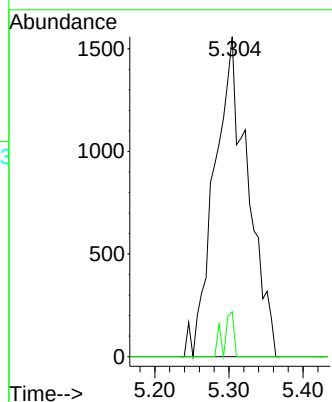
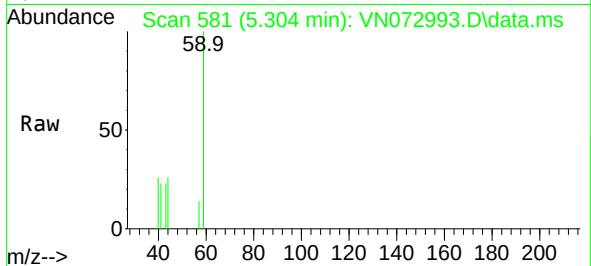




#11
Tert butyl alcohol
Concen: 4.413 ug/l
RT: 5.304 min Scan# 581
Delta R.T. 0.000 min
Lab File: VN072993.D
Acq: 21 Jun 2022 19:10

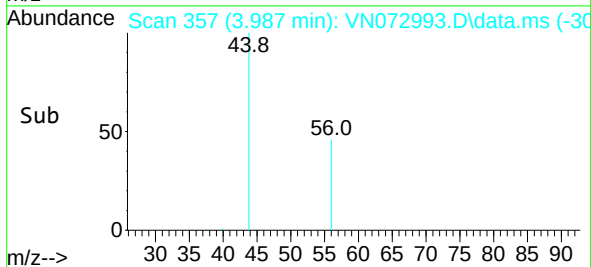
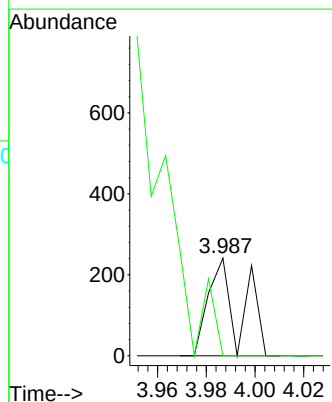
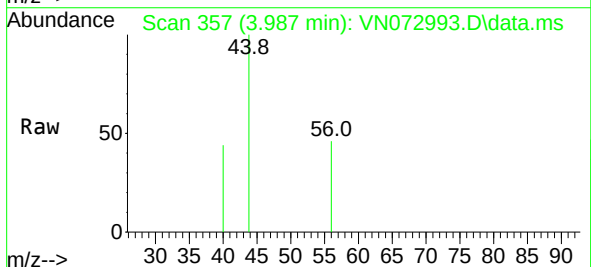
Instrument :
MSVOA_N
ClientSampleId :
MW-6

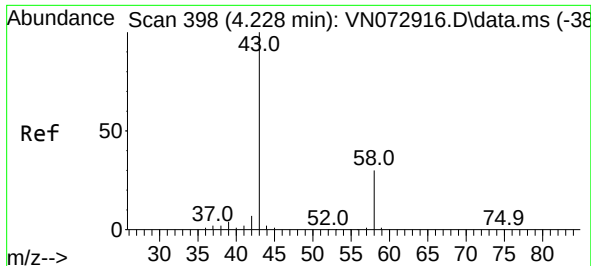
Tgt Ion: 59 Resp: 4898
Ion Ratio Lower Upper
59 100
57 4.1 8.3 12.5#



#13
Acrolein
Concen: 0.499 ug/l
RT: 3.987 min Scan# 357
Delta R.T. 0.006 min
Lab File: VN072993.D
Acq: 21 Jun 2022 19:10

Tgt Ion: 56 Resp: 218
Ion Ratio Lower Upper
56 100
55 0.0 54.8 82.2#





#16

Acetone

Concen: 35.072 ug/l

RT: 4.234 min Scan# 398

Delta R.T. 0.006 min

Lab File: VN072993.D

Acq: 21 Jun 2022 19:10

Instrument :

MSVOA_N

ClientSampleId :

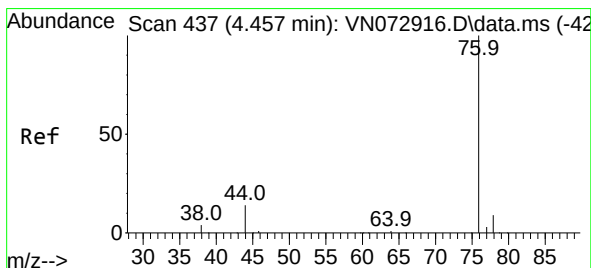
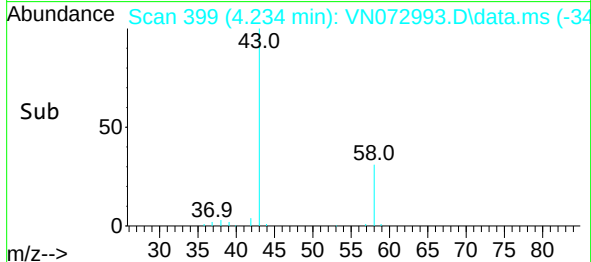
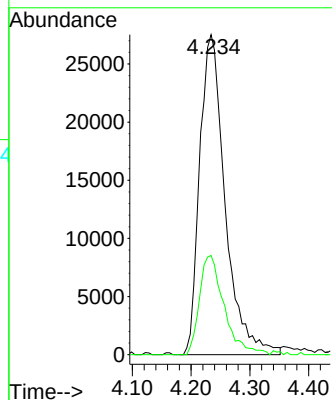
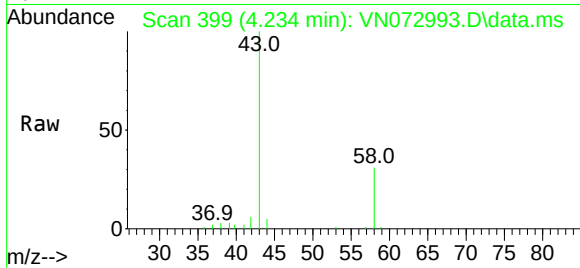
MW-6

Tgt Ion: 43 Resp: 82829

Ion Ratio Lower Upper

43 100

58 31.0 26.0 39.0



#17

Carbon Disulfide

Concen: 0.292 ug/l

RT: 4.463 min Scan# 438

Delta R.T. 0.006 min

Lab File: VN072993.D

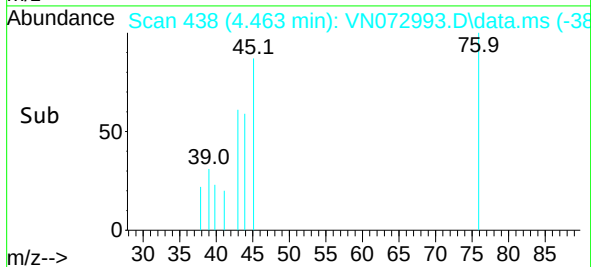
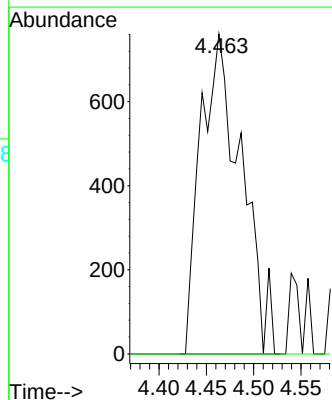
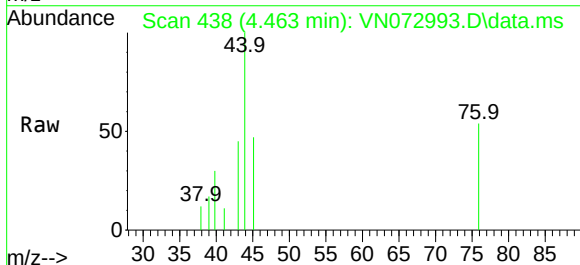
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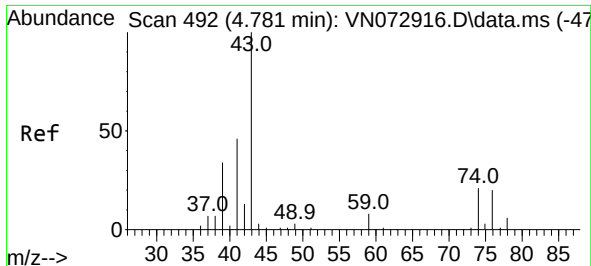
Tgt Ion: 76 Resp: 2275

Ion Ratio Lower Upper

76 100

78 0.0 7.2 10.8#

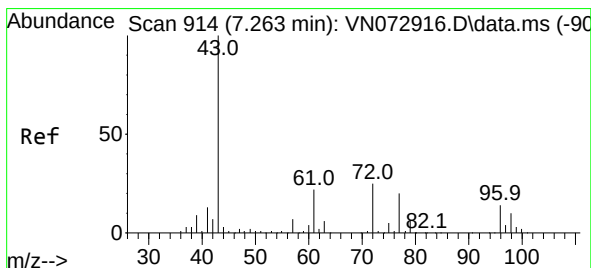
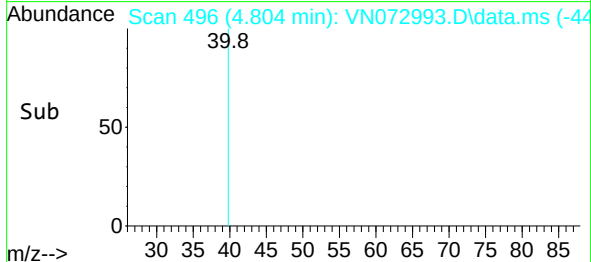
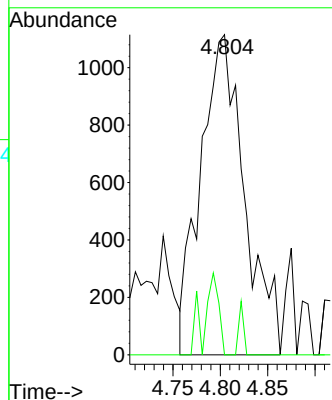
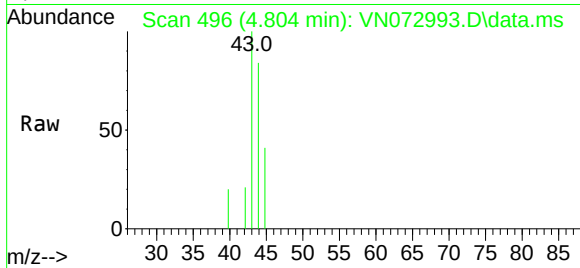




#18
Methyl Acetate
Concen: 0.573 ug/l
RT: 4.804 min Scan# 496
Delta R.T. 0.024 min
Lab File: VN072993.D
Acq: 21 Jun 2022 19:10

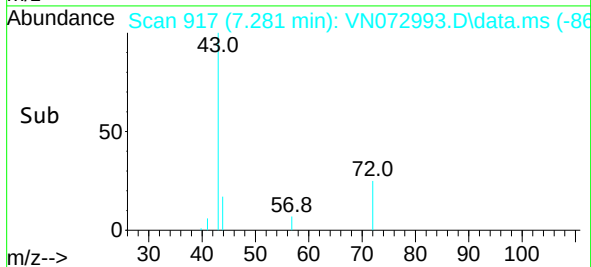
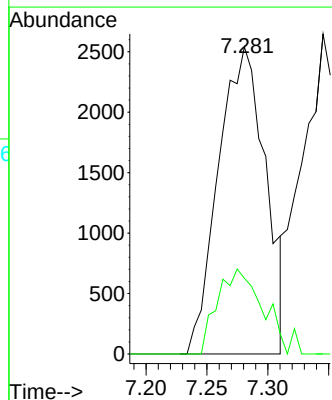
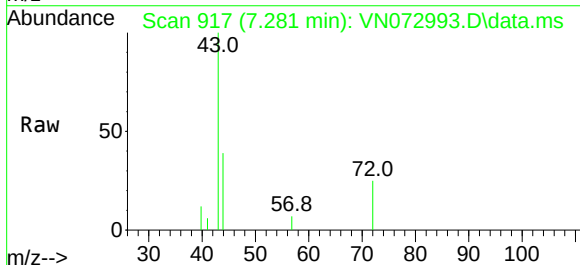
Instrument :
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MW-6

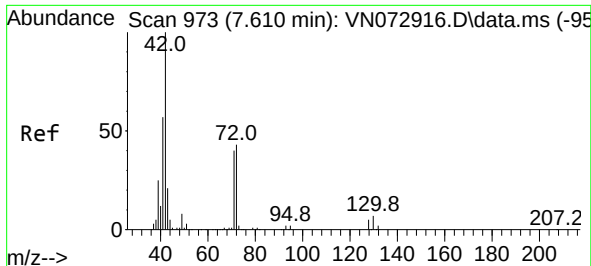
Tgt Ion: 43 Resp: 3606
Ion Ratio Lower Upper
43 100
74 8.5 21.6 32.4#



#25
2-Butanone
Concen: 1.825 ug/l
RT: 7.281 min Scan# 917
Delta R.T. 0.018 min
Lab File: VN072993.D
Acq: 21 Jun 2022 19:10

Tgt Ion: 43 Resp: 6841
Ion Ratio Lower Upper
43 100
72 24.7 23.7 35.5

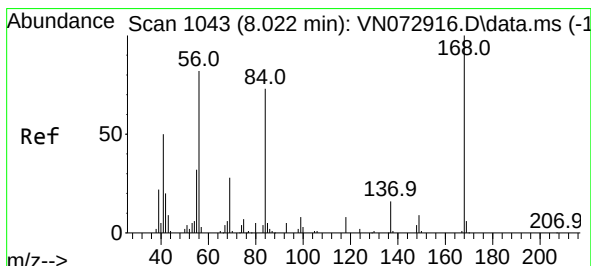
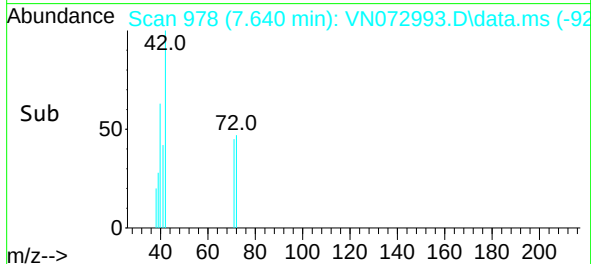
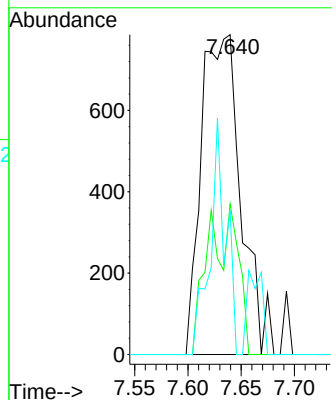
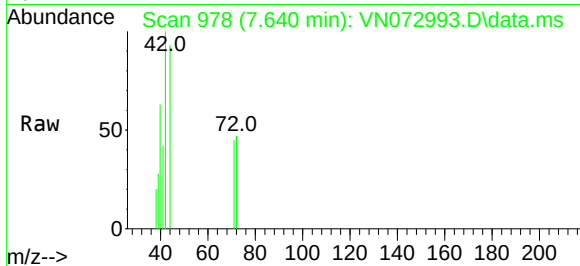




#29
Tetrahydrofuran
Concen: 0.825 ug/l
RT: 7.640 min Scan# 91
Delta R.T. 0.030 min
Lab File: VN072993.D
Acq: 21 Jun 2022 19:10

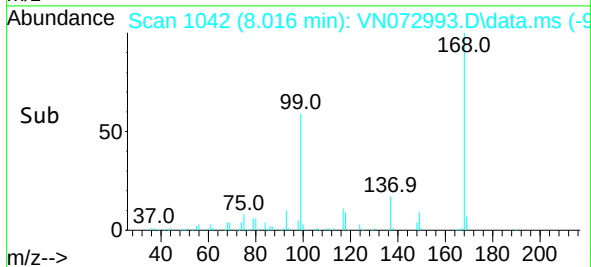
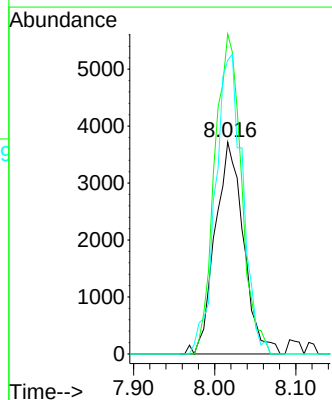
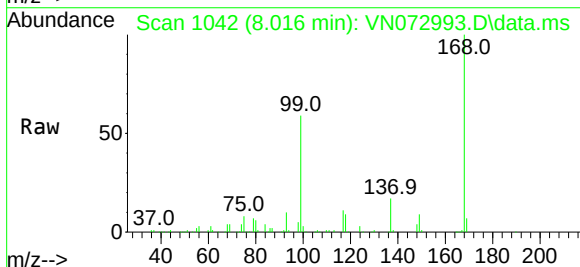
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MW-6

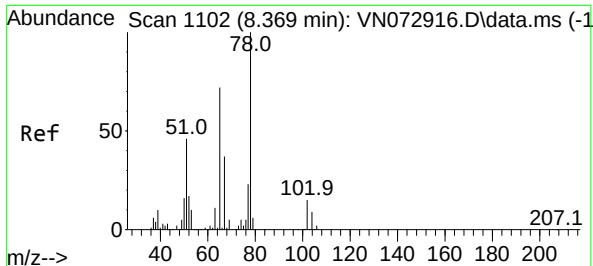
Tgt Ion: 42 Resp: 2041
Ion Ratio Lower Upper
42 100
72 14.5 39.7 59.5#
71 9.8 36.6 55.0#



#31
Cyclohexane
Concen: 1.555 ug/l
RT: 8.016 min Scan# 1042
Delta R.T. -0.006 min
Lab File: VN072993.D
Acq: 21 Jun 2022 19:10

Tgt Ion: 56 Resp: 9038
Ion Ratio Lower Upper
56 100
69 151.0 27.8 41.8#
84 138.6 76.9 115.3#





#33

1,2-Dichloroethane-d4

Concen: 44.555 ug/l

RT: 8.369 min Scan# 1102

Delta R.T. 0.000 min

Lab File: VN072993.D

Acq: 21 Jun 2022 19:10

Instrument :

MSVOA_N

ClientSampleId :

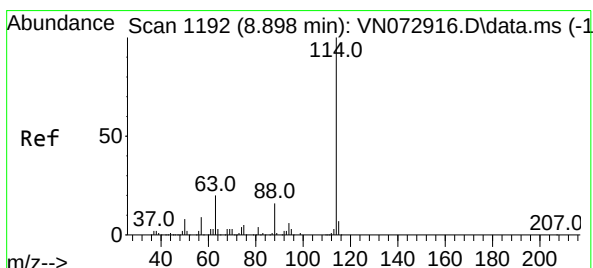
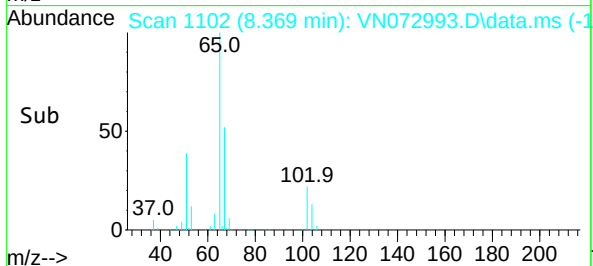
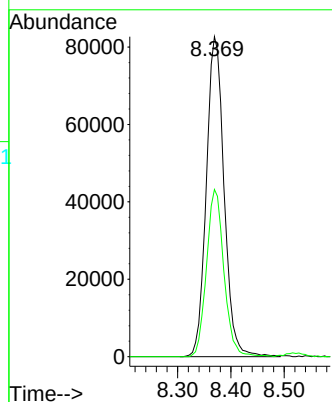
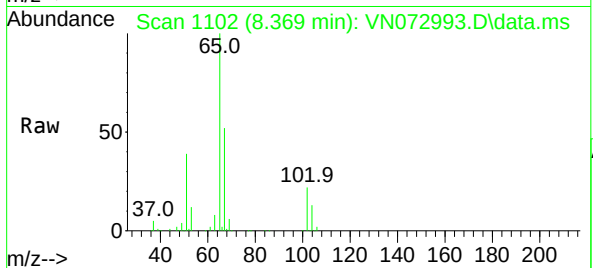
MW-6

Tgt Ion: 65 Resp: 191425

Ion Ratio Lower Upper

65 100

67 51.2 0.0 104.8



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.904 min Scan# 1193

Delta R.T. 0.006 min

Lab File: VN072993.D

Acq: 21 Jun 2022 19:10

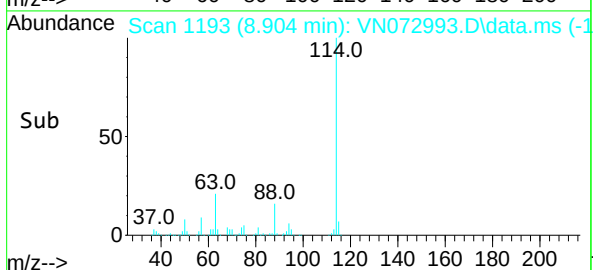
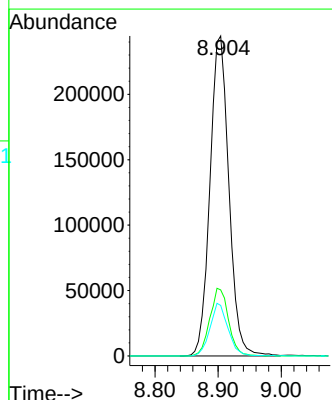
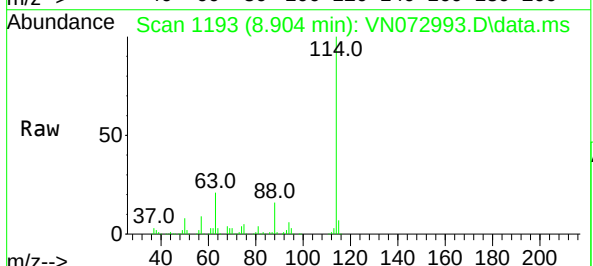
Tgt Ion: 114 Resp: 508972

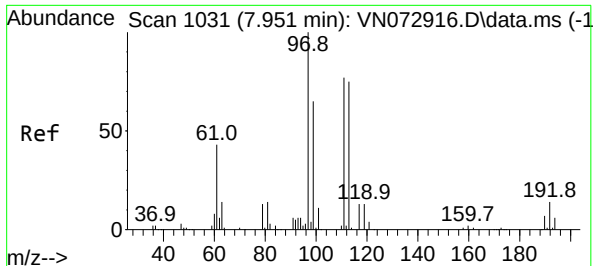
Ion Ratio Lower Upper

114 100

63 20.6 0.0 40.0

88 15.8 0.0 32.6





#35

Dibromofluoromethane

Concen: 51.839 ug/l

RT: 7.951 min Scan# 1

Delta R.T. 0.000 min

Lab File: VN072993.D

Acq: 21 Jun 2022 19:10

Instrument :

MSVOA_N

ClientSampleId :

MW-6

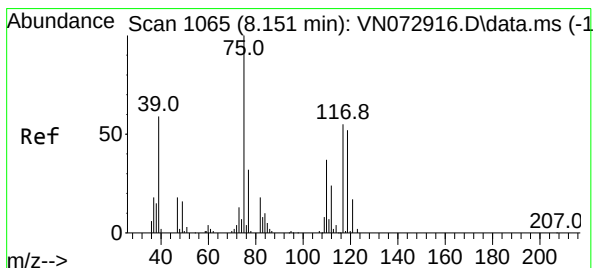
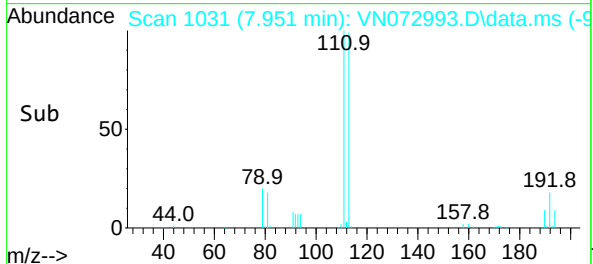
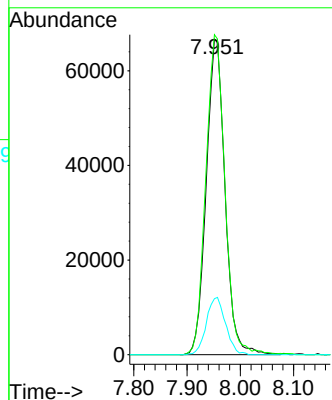
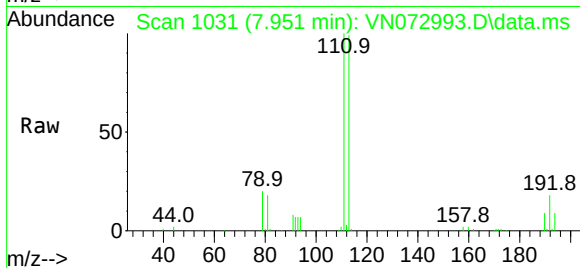
Tgt Ion:113 Resp: 163081

Ion Ratio Lower Upper

113 100

111 103.4 81.4 122.0

192 18.6 17.0 25.6



#36

1,1-Dichloropropene

Concen: 5.952 ug/l

RT: 8.022 min Scan# 1043

Delta R.T. -0.129 min

Lab File: VN072993.D

Acq: 21 Jun 2022 19:10

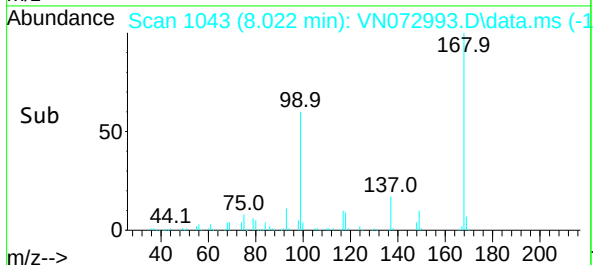
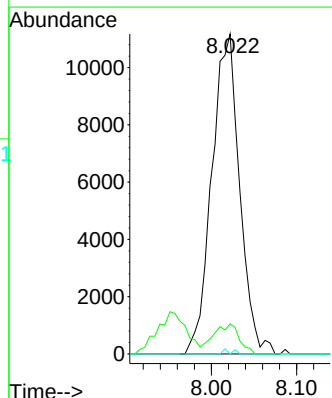
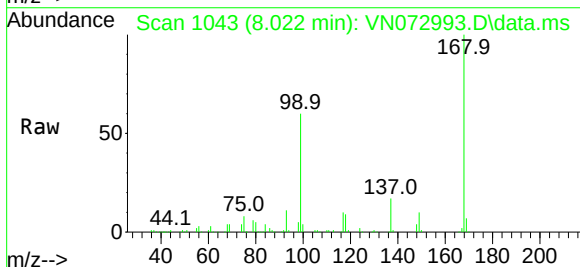
Tgt Ion: 75 Resp: 25337

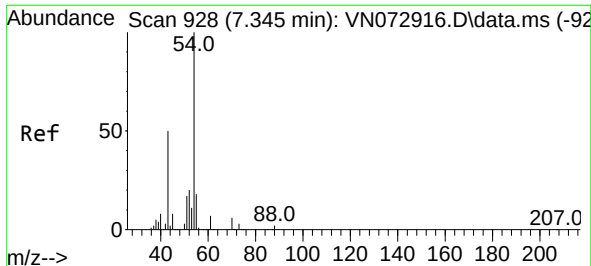
Ion Ratio Lower Upper

75 100

110 8.8 18.3 54.8#

77 0.5 25.1 37.7#

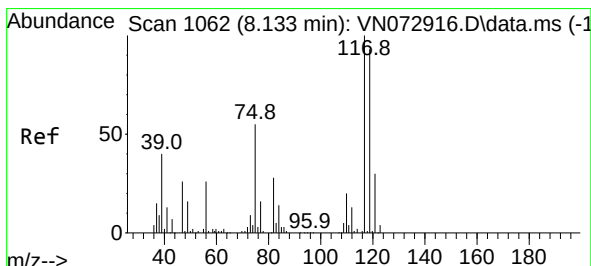
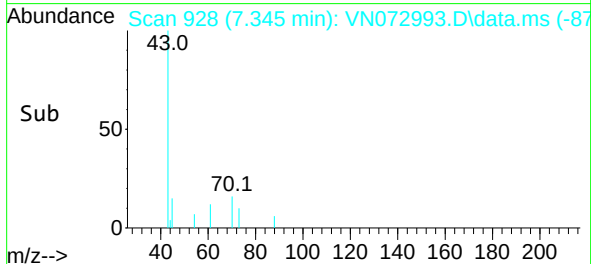
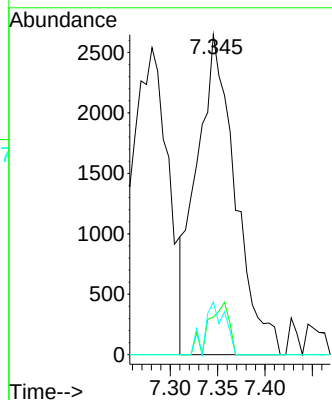
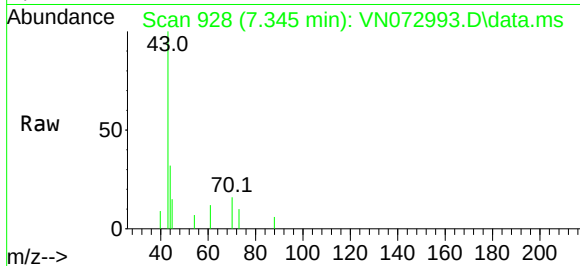




#37
Ethyl Acetate
Concen: 1.104 ug/l
RT: 7.345 min Scan# 91
Delta R.T. 0.000 min
Lab File: VN072993.D
Acq: 21 Jun 2022 19:10

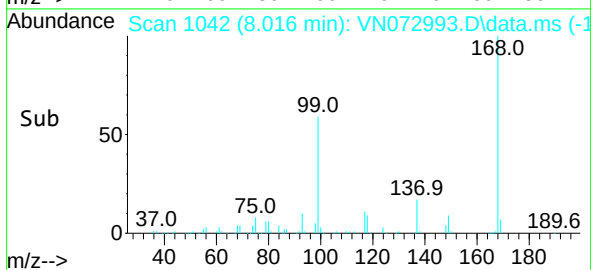
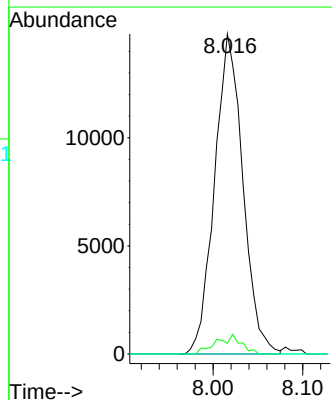
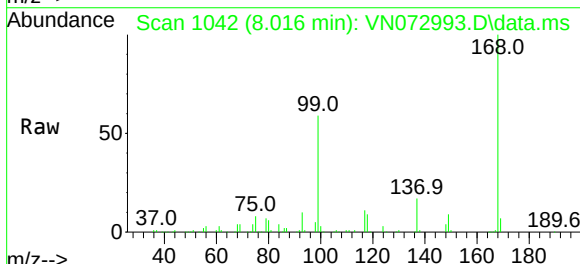
Instrument :
MSVOA_N
ClientSampleId :
MW-6

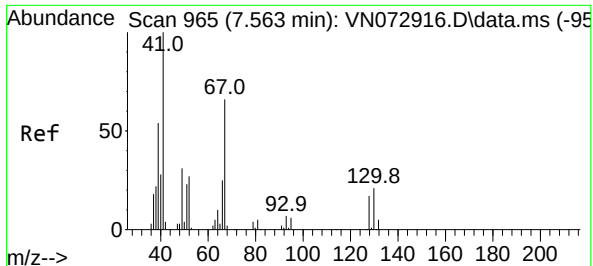
Tgt Ion: 43 Resp: 7518
Ion Ratio Lower Upper
43 100
61 8.6 11.8 17.6#
70 8.4 9.3 13.9#



#38
Carbon Tetrachloride
Concen: 7.234 ug/l
RT: 8.016 min Scan# 1042
Delta R.T. -0.117 min
Lab File: VN072993.D
Acq: 21 Jun 2022 19:10

Tgt Ion: 117 Resp: 32390
Ion Ratio Lower Upper
117 100
119 3.4 75.8 113.8#
121 0.0 24.6 37.0#

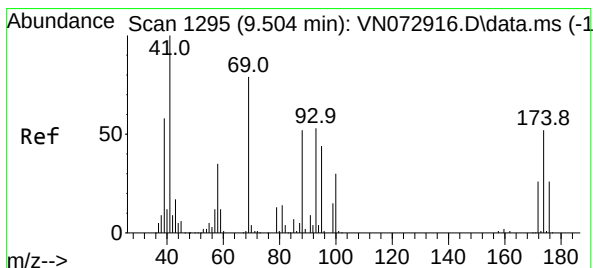
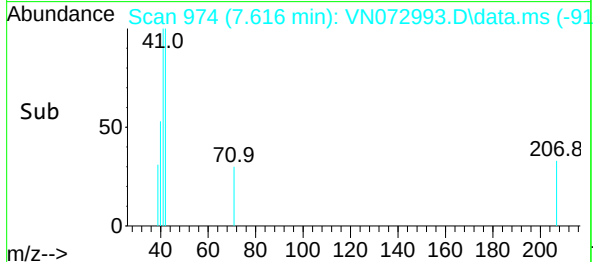
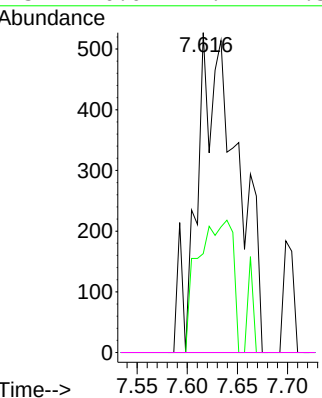
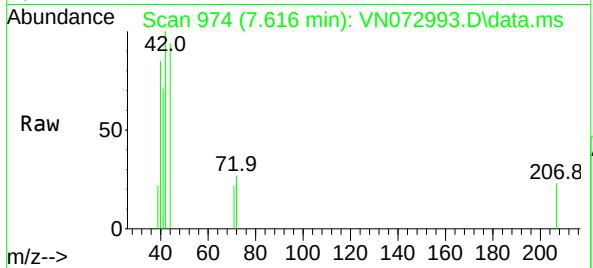




#41
Methacrylonitrile
Concen: 0.462 ug/l
RT: 7.616 min Scan# 91
Delta R.T. 0.053 min
Lab File: VN072993.D
Acq: 21 Jun 2022 19:10

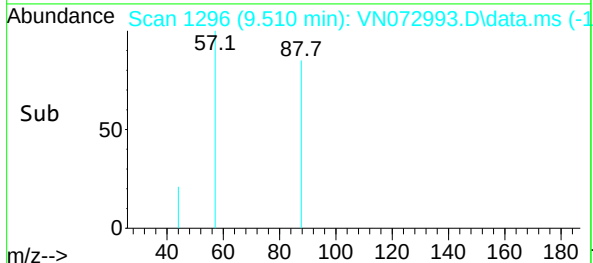
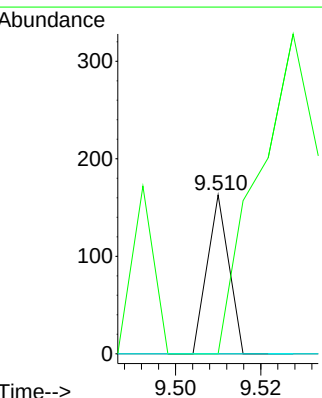
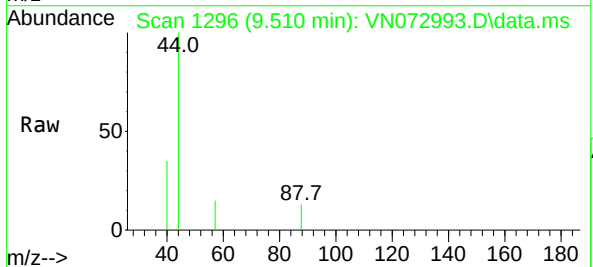
Instrument :
MSVOA_N
ClientSampleId :
MW-6

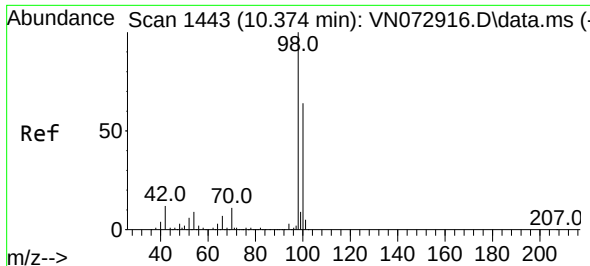
Tgt Ion:	41	Resp:	1493
Ion	Ratio	Lower	Upper
41	100		
39	0.0	48.6	73.0#
67	0.0	73.4	110.2#
52	0.0	27.7	41.5#



#49
1,4-Dioxane
Concen: 0.580 ug/l
RT: 9.510 min Scan# 1296
Delta R.T. 0.006 min
Lab File: VN072993.D
Acq: 21 Jun 2022 19:10

Tgt Ion:	88	Resp:	58
Ion	Ratio	Lower	Upper
88	100		
43	541.4	20.2	30.4#
58	0.0	54.2	81.4#

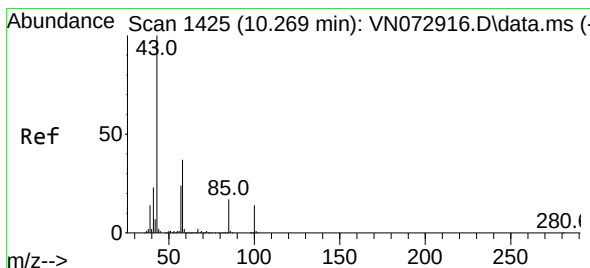
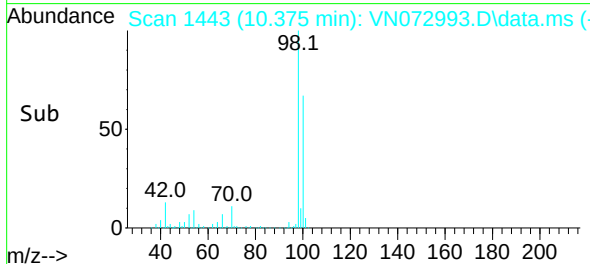
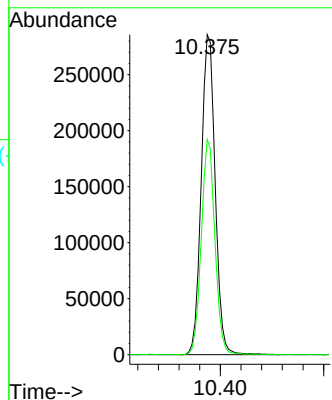
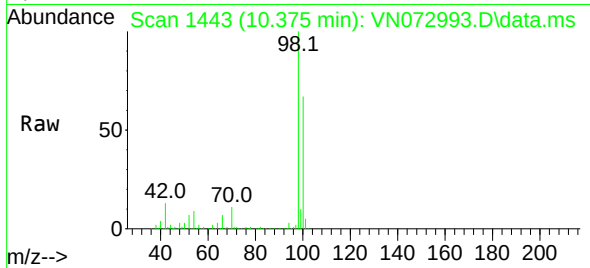




#50
Toluene-d8
Concen: 45.668 ug/l
RT: 10.375 min Scan# 1443
Delta R.T. 0.000 min
Lab File: VN072993.D
Acq: 21 Jun 2022 19:10

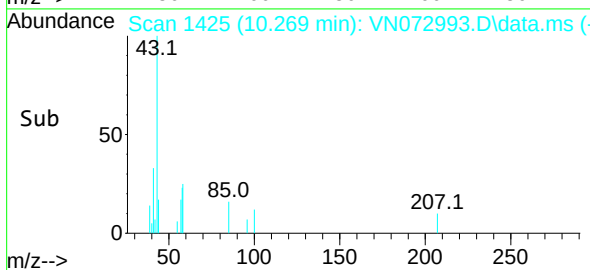
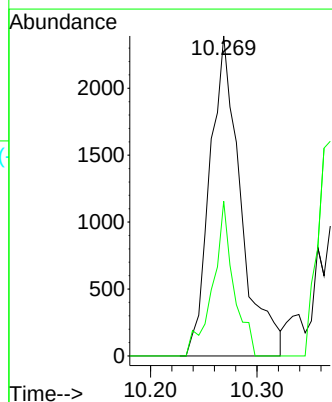
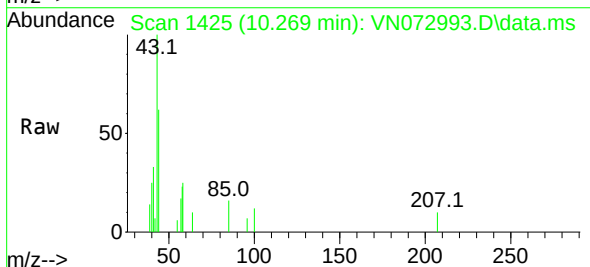
Instrument :
MSVOA_N
ClientSampleId :
MW-6

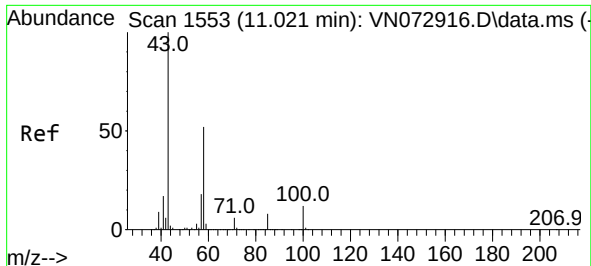
Tgt Ion: 98 Resp: 534588
Ion Ratio Lower Upper
98 100
100 65.7 52.6 78.8



#51
4-Methyl-2-Pentanone
Concen: 0.758 ug/l
RT: 10.269 min Scan# 1425
Delta R.T. 0.000 min
Lab File: VN072993.D
Acq: 21 Jun 2022 19:10

Tgt Ion: 43 Resp: 4812
Ion Ratio Lower Upper
43 100
58 32.7 34.1 51.1#

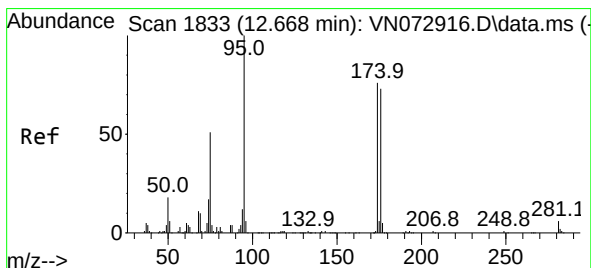
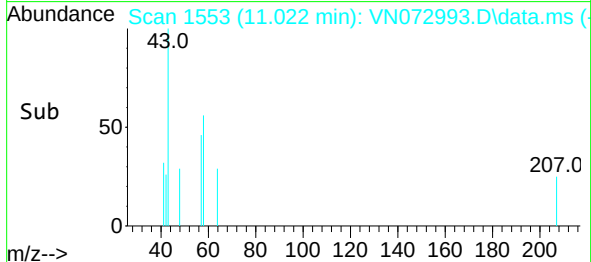
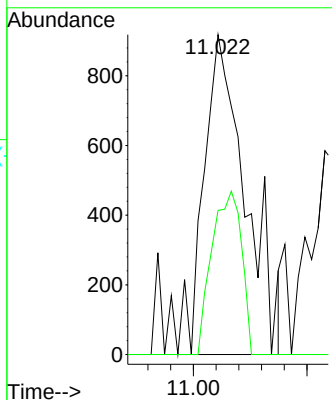
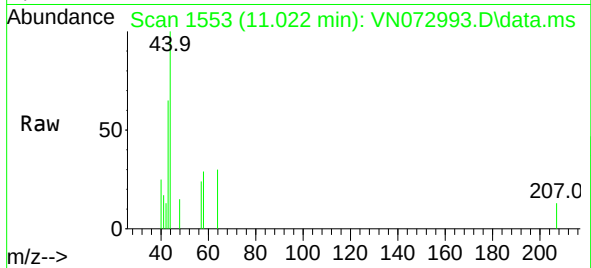




#59
2-Hexanone
Concen: 0.481 ug/l
RT: 11.022 min Scan# 1153
Delta R.T. 0.000 min
Lab File: VN072993.D
Acq: 21 Jun 2022 19:10

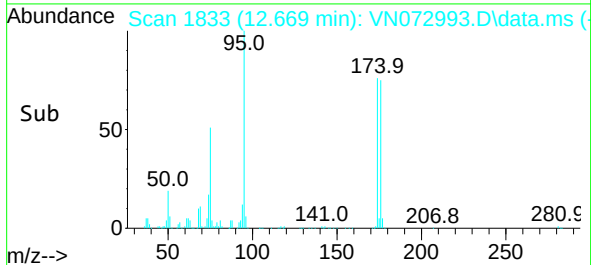
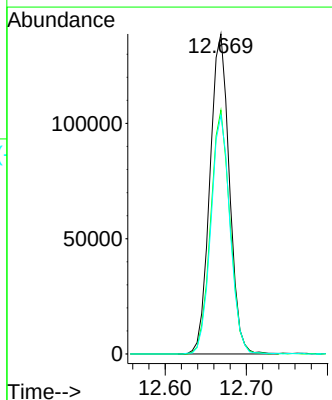
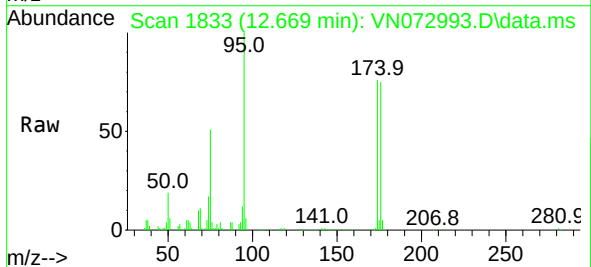
Instrument :
MSVOA_N
ClientSampleId :
MW-6

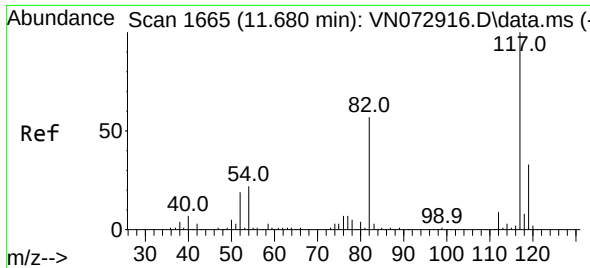
Tgt Ion: 43 Resp: 2360
Ion Ratio Lower Upper
43 100
58 36.0 29.7 89.1



#62
4-Bromofluorobenzene
Concen: 54.882 ug/l
RT: 12.669 min Scan# 1833
Delta R.T. 0.000 min
Lab File: VN072993.D
Acq: 21 Jun 2022 19:10

Tgt Ion: 95 Resp: 231015
Ion Ratio Lower Upper
95 100
174 75.7 0.0 167.6
176 73.6 0.0 163.4

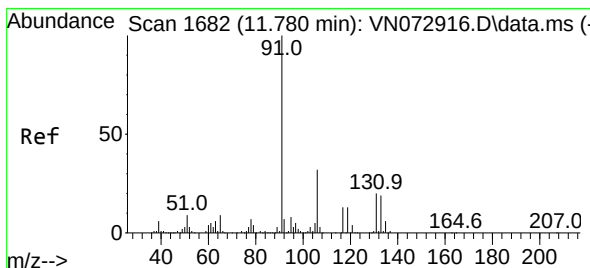
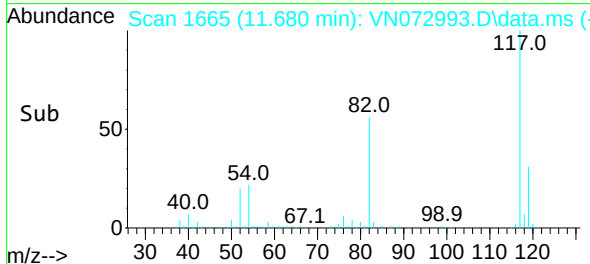
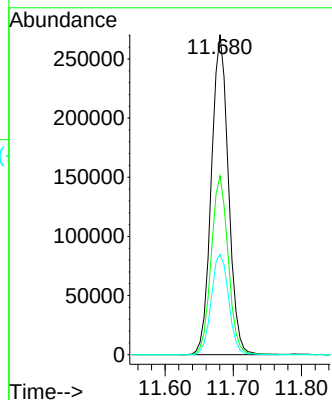
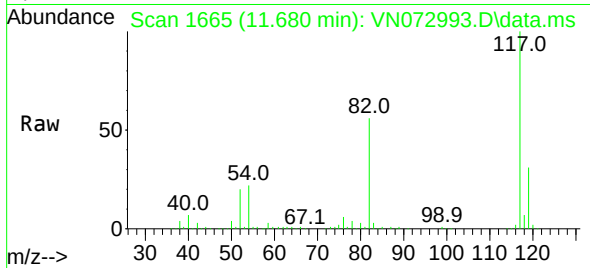




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.680 min Scan# 1170
Delta R.T. 0.000 min
Lab File: VN072993.D
Acq: 21 Jun 2022 19:10

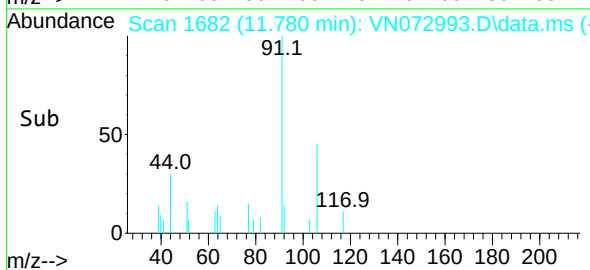
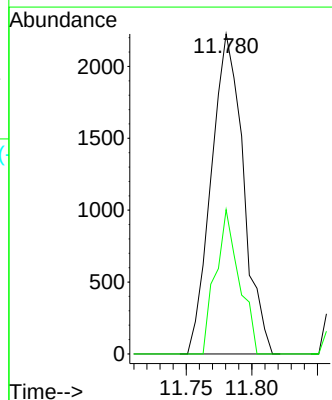
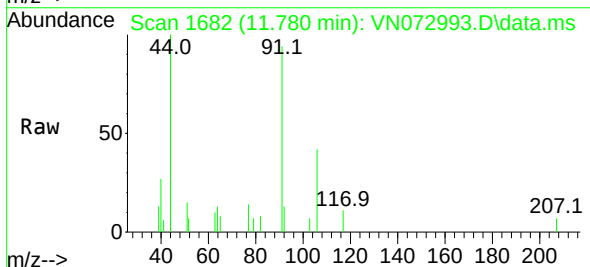
Instrument :
MSVOA_N
ClientSampleId :
MW-6

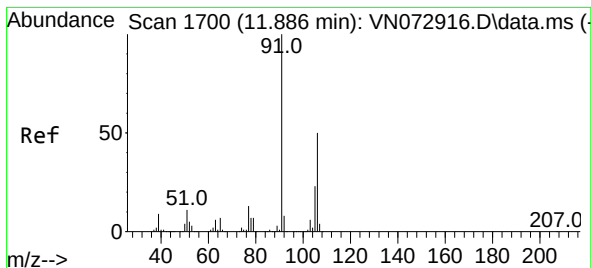
Tgt Ion:117 Resp: 471201
Ion Ratio Lower Upper
117 100
82 55.9 44.2 66.2
119 31.4 25.4 38.0



#67
Ethyl Benzene
Concen: 0.233 ug/l
RT: 11.780 min Scan# 1682
Delta R.T. 0.000 min
Lab File: VN072993.D
Acq: 21 Jun 2022 19:10

Tgt Ion: 91 Resp: 3781
Ion Ratio Lower Upper
91 100
106 45.1 24.9 37.3#





#68

m/p-Xylenes

Concen: 1.366 ug/l

RT: 11.892 min Scan# 1

Delta R.T. 0.006 min

Lab File: VN072993.D

Acq: 21 Jun 2022 19:10

Instrument :

MSVOA_N

ClientSampleId :

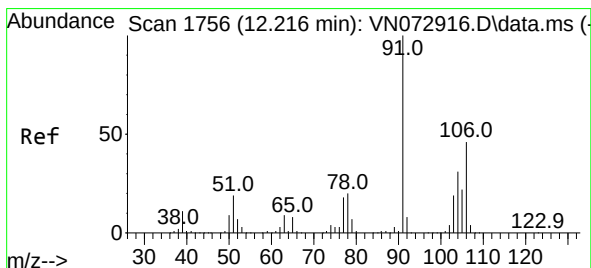
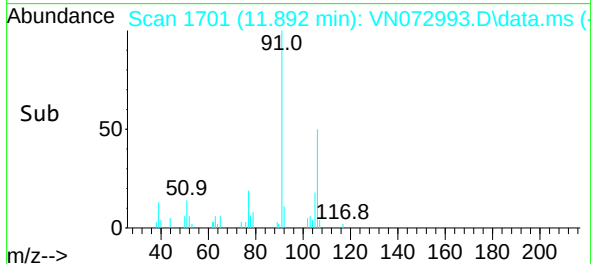
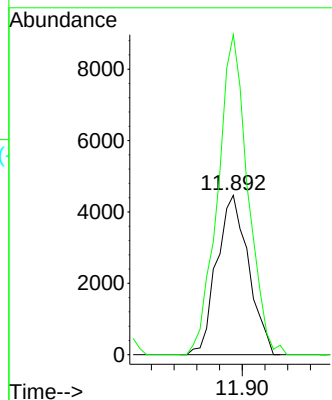
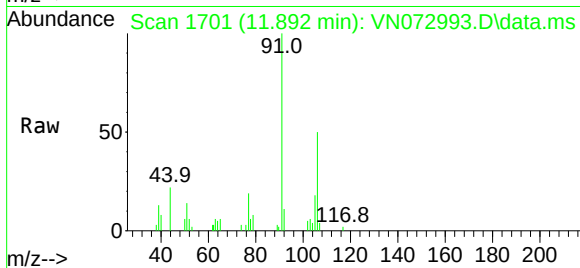
MW-6

Tgt Ion:106 Resp: 8677

Ion Ratio Lower Upper

106 100

91 190.6 158.9 238.3



#69

o-Xylene

Concen: 0.261 ug/l

RT: 12.222 min Scan# 1757

Delta R.T. 0.006 min

Lab File: VN072993.D

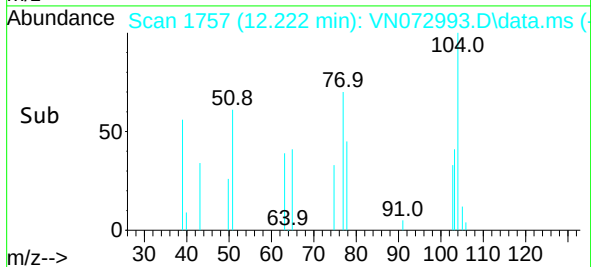
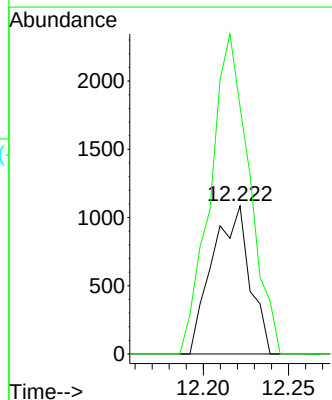
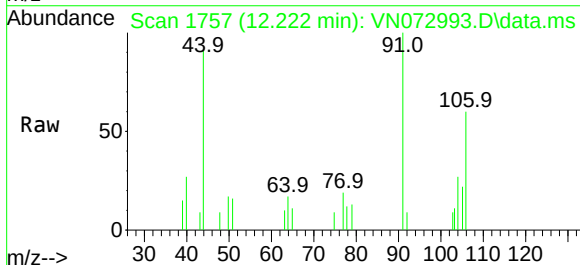
Acq: 21 Jun 2022 19:10

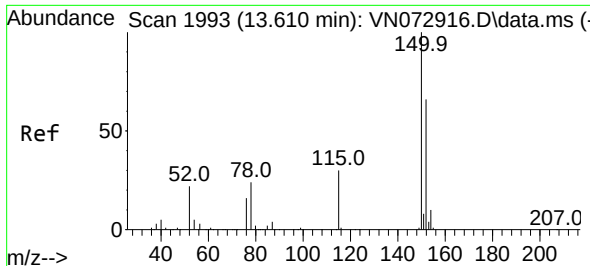
Tgt Ion:106 Resp: 1654

Ion Ratio Lower Upper

106 100

91 225.2 106.0 318.0

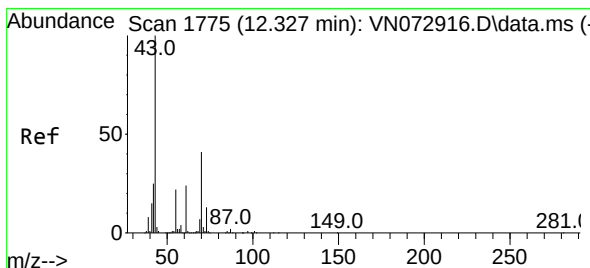
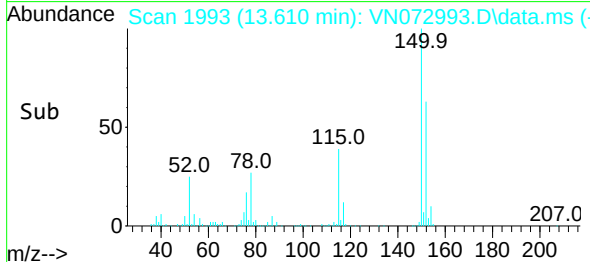
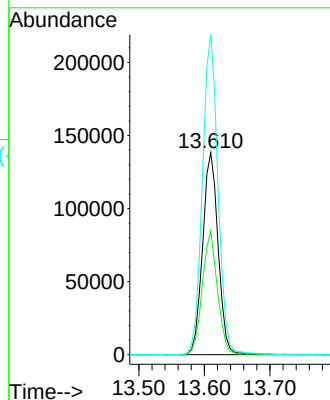
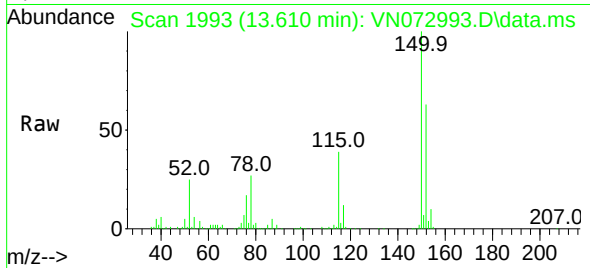




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.610 min Scan# 1993
Delta R.T. 0.000 min
Lab File: VN072993.D
Acq: 21 Jun 2022 19:10

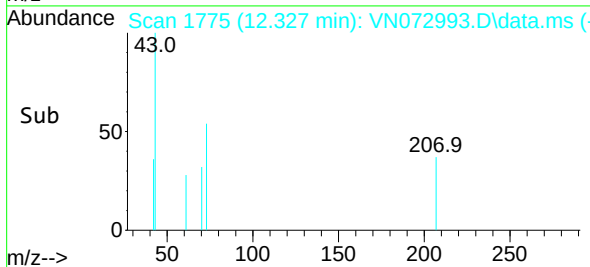
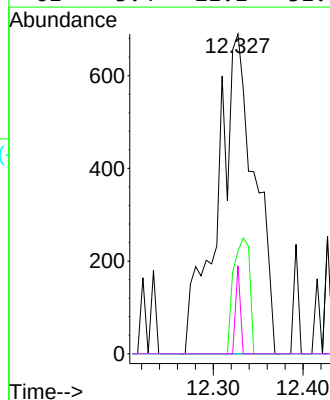
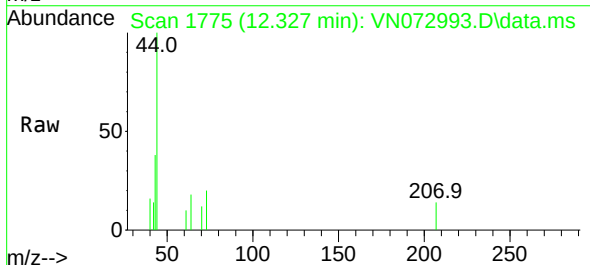
Instrument :
MSVOA_N
ClientSampleId :
MW-6

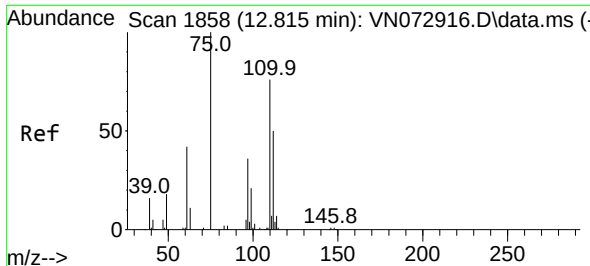
Tgt Ion:152 Resp: 228137
Ion Ratio Lower Upper
152 100
115 59.9 28.9 86.7
150 158.8 0.0 356.2



#74
N-ethyl acetate
Concen: 0.217 ug/l
RT: 12.327 min Scan# 1775
Delta R.T. 0.000 min
Lab File: VN072993.D
Acq: 21 Jun 2022 19:10

Tgt Ion: 43 Resp: 1992
Ion Ratio Lower Upper
43 100
70 15.6 39.0 58.4#
55 0.0 21.1 31.7#
61 3.4 21.1 31.7#

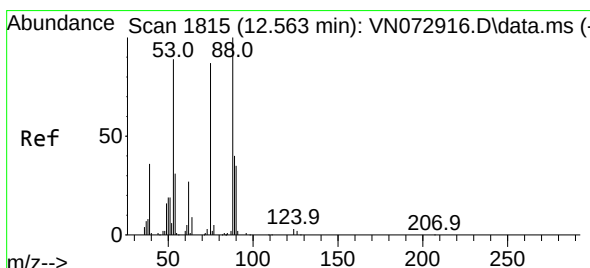
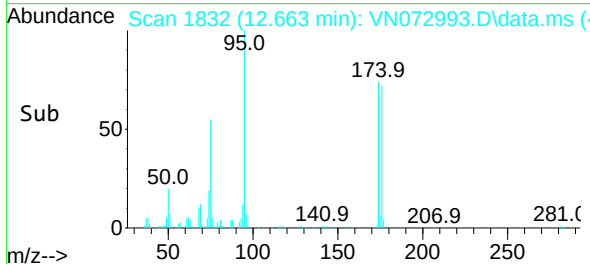
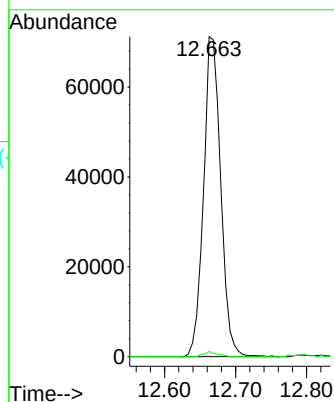
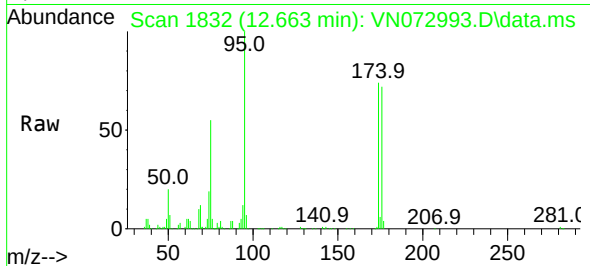




#76
1,2,3-Trichloropropane
Concen: 21.675 ug/l
RT: 12.663 min Scan# 1832
Delta R.T. -0.153 min
Lab File: VN072993.D
Acq: 21 Jun 2022 19:10

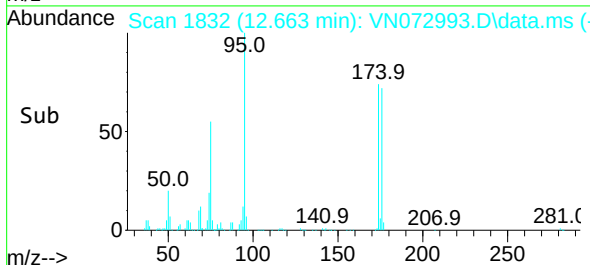
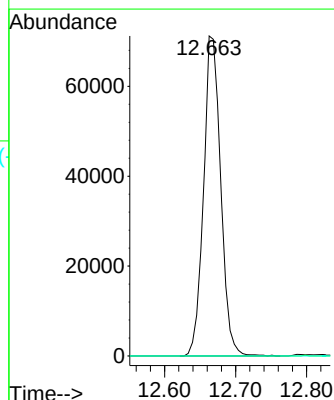
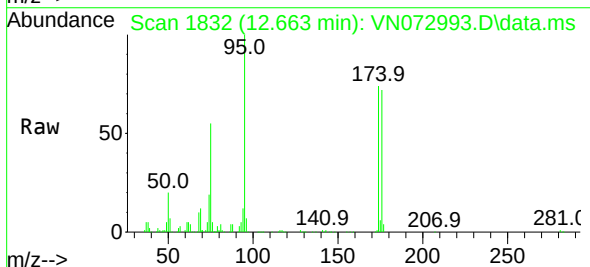
Instrument :
MSVOA_N
ClientSampleId :
MW-6

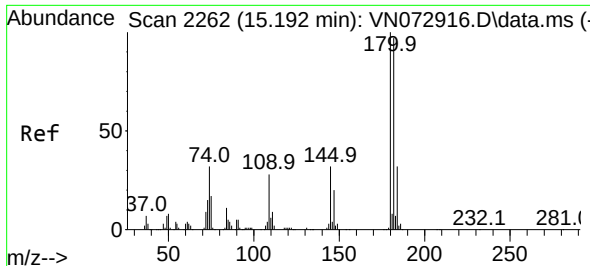
Tgt Ion: 75 Resp: 119886
Ion Ratio Lower Upper
75 100
77 1.2 98.5 295.5#



#81
trans-1,4-Dichloro-2-butene
Concen: 58.535 ug/l
RT: 12.663 min Scan# 1832
Delta R.T. 0.100 min
Lab File: VN072993.D
Acq: 21 Jun 2022 19:10

Tgt Ion: 75 Resp: 119886
Ion Ratio Lower Upper
75 100
53 0.0 78.0 117.0#
89 0.0 37.2 55.8#

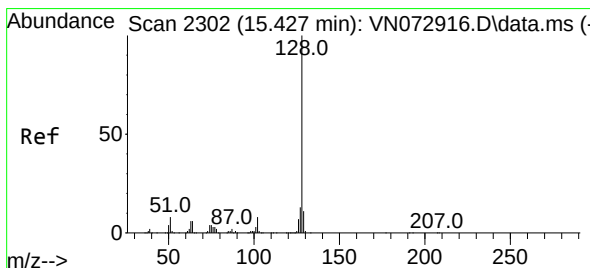
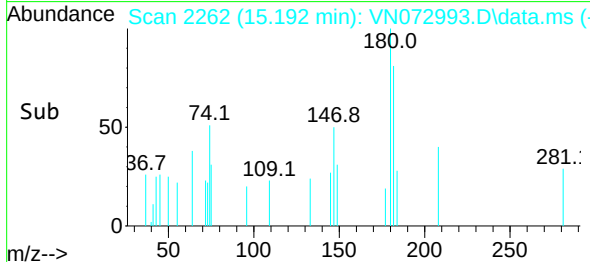
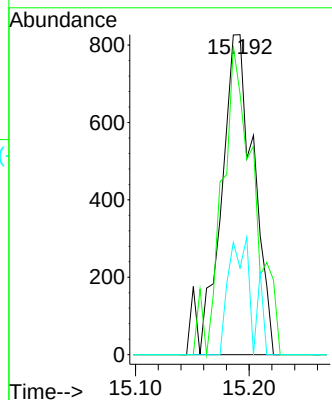
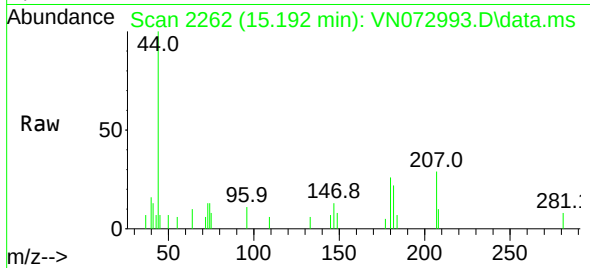




#93
1,2,4-Trichlorobenzene
Concen: 0.379 ug/l
RT: 15.192 min Scan# 21
Delta R.T. 0.000 min
Lab File: VN072993.D
Acq: 21 Jun 2022 19:10

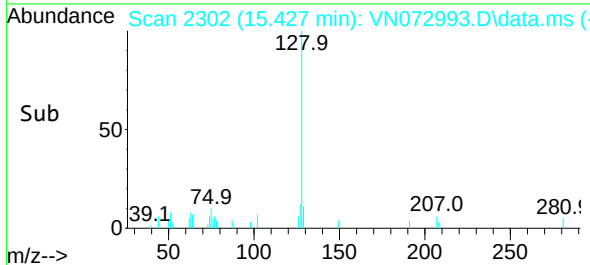
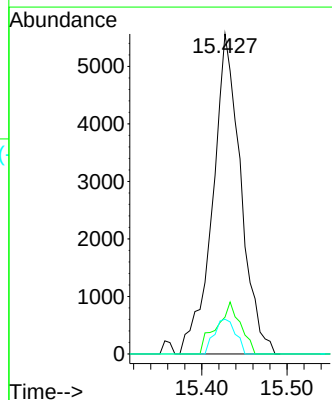
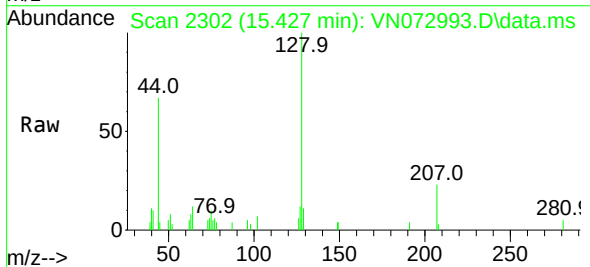
Instrument :
MSVOA_N
ClientSampleId :
MW-6

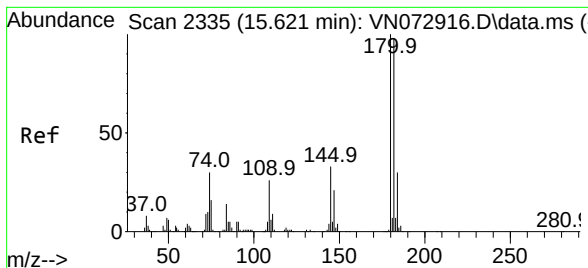
Tgt Ion:180 Resp: 1652
Ion Ratio Lower Upper
180 100
182 93.8 47.5 142.5
145 26.0 14.5 43.5



#95
Naphthalene
Concen: 0.722 ug/l
RT: 15.427 min Scan# 2302
Delta R.T. 0.000 min
Lab File: VN072993.D
Acq: 21 Jun 2022 19:10

Tgt Ion:128 Resp: 12727
Ion Ratio Lower Upper
128 100
127 13.9 10.3 15.5
129 8.2 8.6 13.0#





#96
 1,2,3-Trichlorobenzene
 Concen: 0.451 ug/l
 RT: 15.615 min Scan# 21
 Delta R.T. -0.006 min
 Lab File: VN072993.D
 Acq: 21 Jun 2022 19:10

Instrument :
 MSVOA_N
 ClientSampleId :
 MW-6

Tgt Ion	Ratio	Lower	Upper
180	100		
182	93.6	47.8	143.3
145	32.3	15.5	46.5

