

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN080222\
 Data File : VN073680.D
 Acq On : 02 Aug 2022 12:20
 Operator : JC\MD
 Sample : N3971-01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MW-1R

Quant Time: Aug 03 02:04:11 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N072822W.M
 Quant Title : SW846 8260
 QLast Update : Fri Jul 29 02:20:25 2022
 Response via : Initial Calibration

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

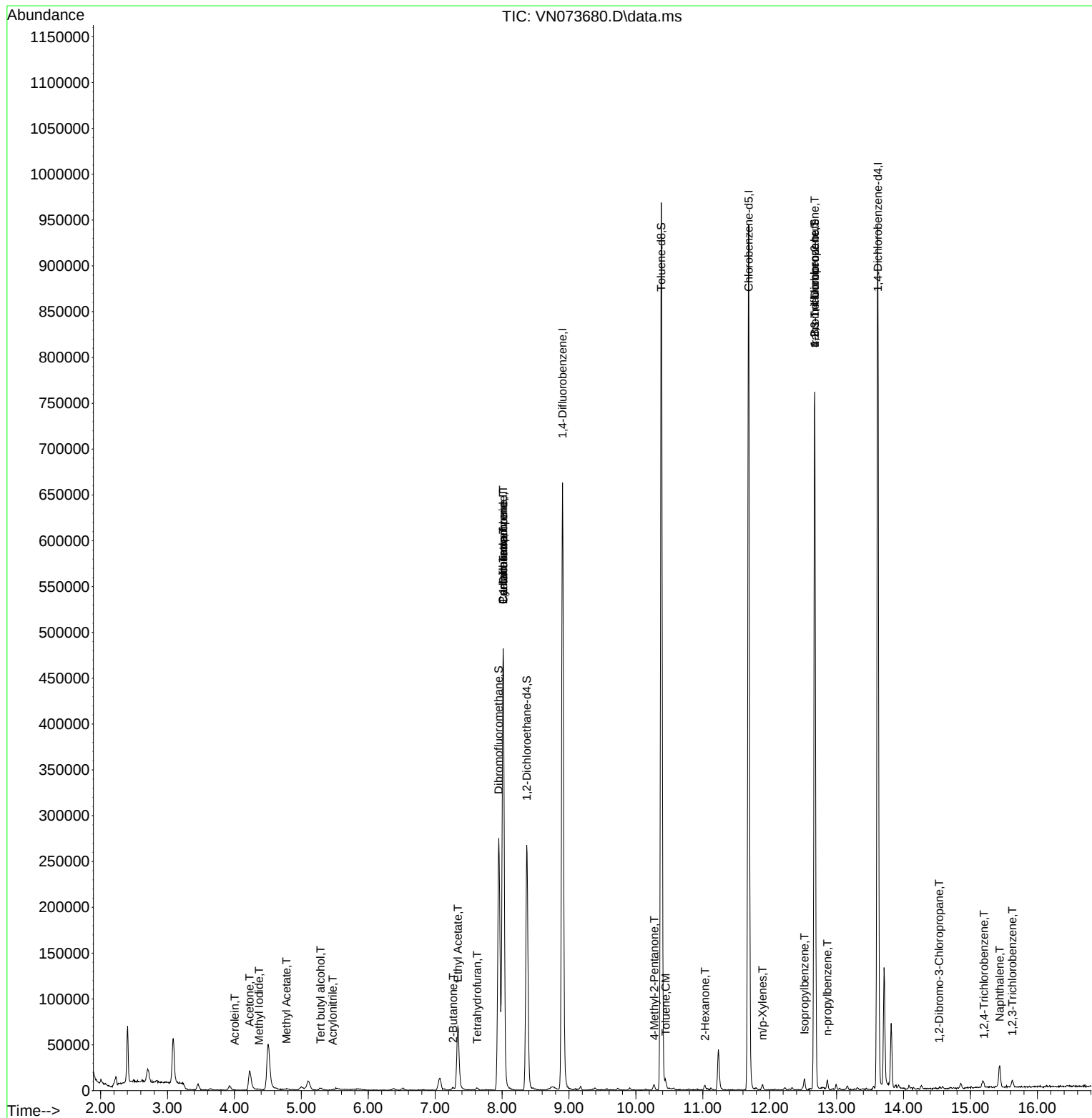
Internal Standards						
1) Pentafluorobenzene	8.016	168	379427	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.904	114	604412	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.686	117	565696	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.615	152	273007	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.369	65	218878	47.336	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	94.680%		
35) Dibromofluoromethane	7.951	113	205460	54.135	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	108.280%		
50) Toluene-d8	10.380	98	680332	45.553	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	91.100%		
62) 4-Bromofluorobenzene	12.674	95	252569	50.516	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	101.040%		
Target Compounds						
					Qvalue	
3) Chloromethane	2.263	50	1128	Below Cal		90
6) Chloroethane	2.957	64	415	Below Cal	#	42
10) Methyl Iodide	4.369	142	798	0.214	ug/l #	44
11) Tert butyl alcohol	5.287	59	2042	2.048	ug/l	99
13) Acrolein	4.004	56	473	0.478	ug/l #	16
15) Acrylonitrile	5.469	53	632	0.229	ug/l #	79
16) Acetone	4.228	43	40637	16.362	ug/l	97
18) Methyl Acetate	4.781	43	2551	0.413	ug/l #	53
20) Methylene Chloride	5.004	84	542	Below Cal	#	53
25) 2-Butanone	7.269	43	4498	1.166	ug/l #	87
29) Tetrahydrofuran	7.628	42	1178	0.483	ug/l	92
31) Cyclohexane	8.016	56	15990	2.323	ug/l #	53
36) 1,1-Dichloropropene	8.016	75	27168	5.023	ug/l #	49
37) Ethyl Acetate	7.339	43	106354	14.929	ug/l	98
38) Carbon Tetrachloride	8.016	117	36016	6.556	ug/l #	16
51) 4-Methyl-2-Pentanone	10.274	43	4122	0.597	ug/l	87
52) Toluene	10.445	92	2558	0.238	ug/l	100
59) 2-Hexanone	11.033	43	4428	0.847	ug/l	86
68) m/p-Xylenes	11.892	106	2048	0.265	ug/l	82
73) Isopropylbenzene	12.521	105	7328	0.367	ug/l	97
76) 1,2,3-Trichloropropane	12.674	75	131565	24.673	ug/l #	1
78) n-propylbenzene	12.863	91	8437	0.375	ug/l	98
81) trans-1,4-Dichloro-2-b...	12.674	75	131565	62.452	ug/l #	11
92) 1,2-Dibromo-3-Chloropr...	14.533	75	511	0.330	ug/l #	50
93) 1,2,4-Trichlorobenzene	15.204	180	2966	0.620	ug/l	88
95) Naphthalene	15.439	128	25646	1.653	ug/l	99
96) 1,2,3-Trichlorobenzene	15.627	180	3929	0.781	ug/l #	78

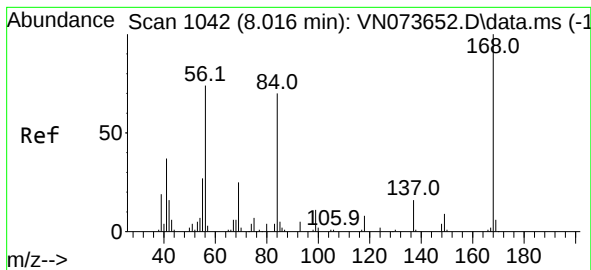
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Instrument :
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Quant Time: Aug 03 02:04:11 2022
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Quant Title : SW846 8260
QLast Update : Fri Jul 29 02:20:25 2022
Response via : Initial Calibration

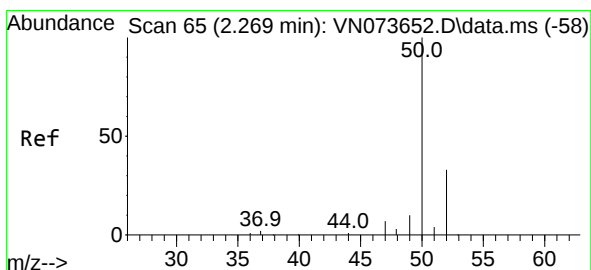
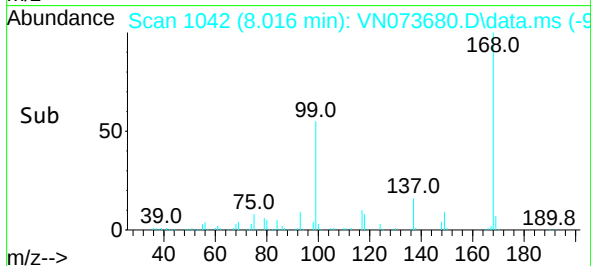
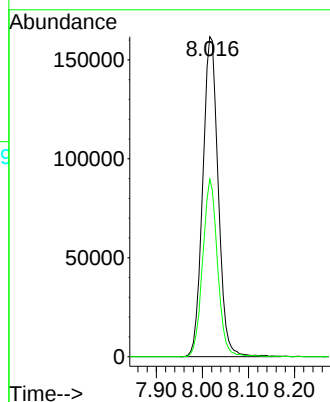
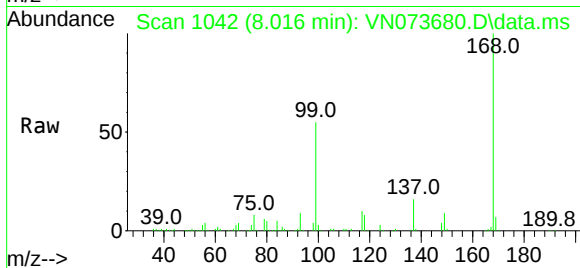




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.016 min Scan# 10
Delta R.T. -0.000 min
Lab File: VN073680.D
Acq: 02 Aug 2022 12:20

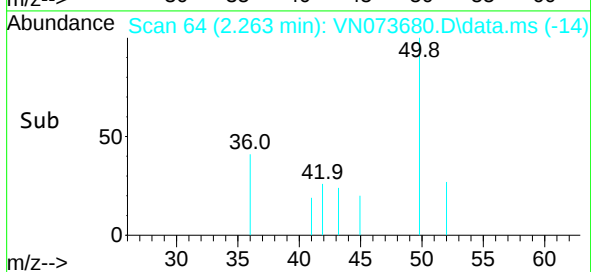
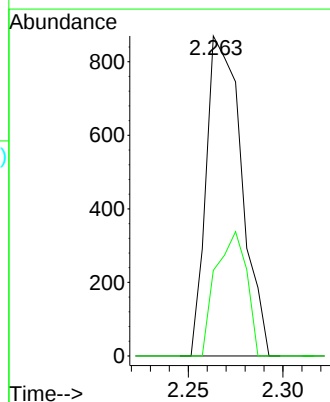
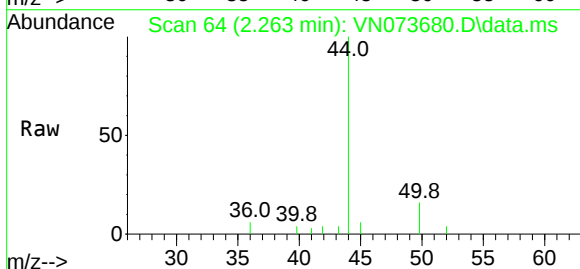
Instrument :
MSVOA_N
ClientSampleId :
MW-1R

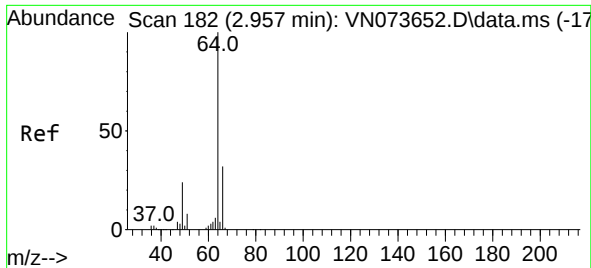
Tgt Ion:168 Resp: 379427
Ion Ratio Lower Upper
168 100
99 55.4 42.3 63.5



#3
Chloromethane
Concen: Below Cal
RT: 2.263 min Scan# 64
Delta R.T. -0.006 min
Lab File: VN073680.D
Acq: 02 Aug 2022 12:20

Tgt Ion: 50 Resp: 1128
Ion Ratio Lower Upper
50 100
52 26.8 25.7 38.5

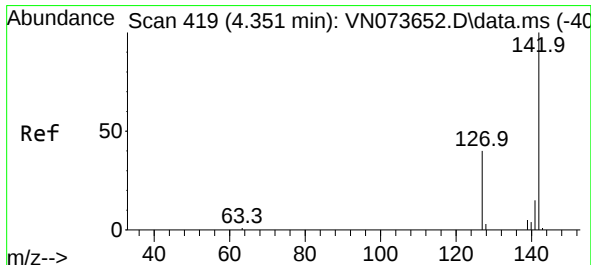
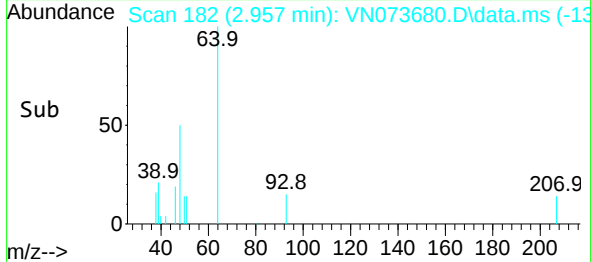
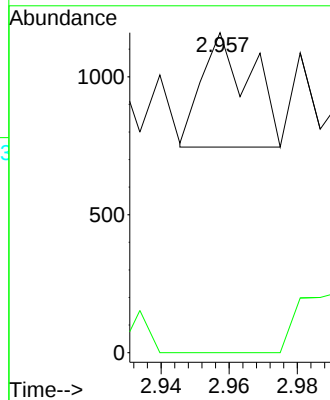
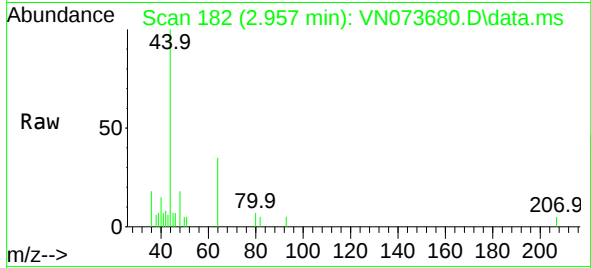




#6
Chloroethane
Concen: Below Cal
RT: 2.957 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN073680.D
Acq: 02 Aug 2022 12:20

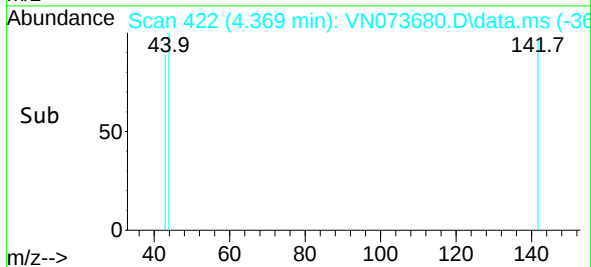
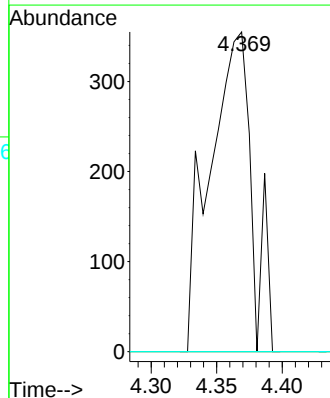
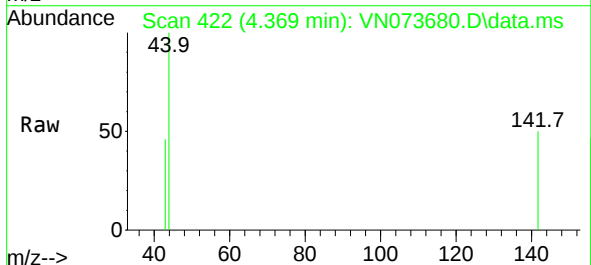
Instrument :
MSVOA_N
ClientSampleId :
MW-1R

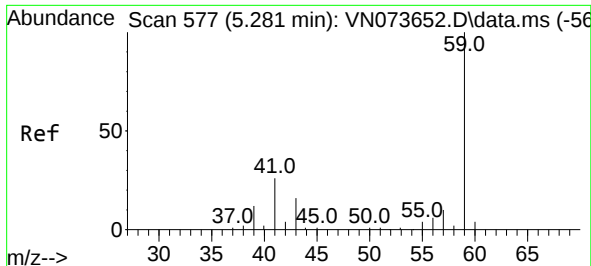
Tgt Ion: 64 Resp: 415
Ion Ratio Lower Upper
64 100
66 0.0 26.2 39.4#



#10
Methyl Iodide
Concen: 0.214 ug/l
RT: 4.369 min Scan# 422
Delta R.T. 0.018 min
Lab File: VN073680.D
Acq: 02 Aug 2022 12:20

Tgt Ion: 142 Resp: 798
Ion Ratio Lower Upper
142 100
127 0.0 31.3 46.9#
141 0.0 11.2 16.8#





#11

Tert butyl alcohol

Concen: 2.048 ug/l

RT: 5.287 min Scan# 5

Delta R.T. -0.005 min

Lab File: VN073680.D

Acq: 02 Aug 2022 12:20

Instrument :

MSVOA_N

ClientSampleId :

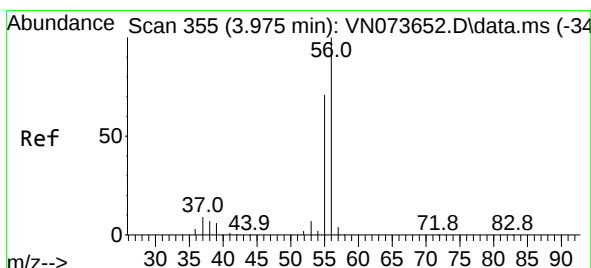
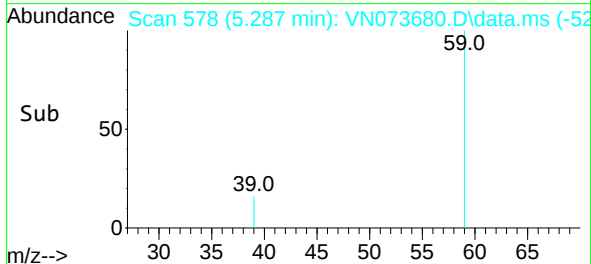
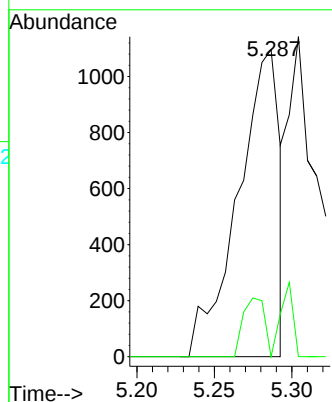
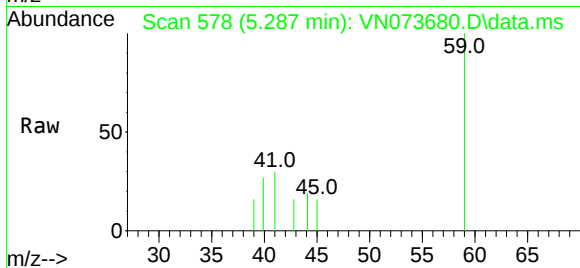
MW-1R

Tgt Ion: 59 Resp: 2042

Ion Ratio Lower Upper

59 100

57 9.8 8.3 12.5



#13

Acrolein

Concen: 0.478 ug/l

RT: 4.004 min Scan# 360

Delta R.T. 0.023 min

Lab File: VN073680.D

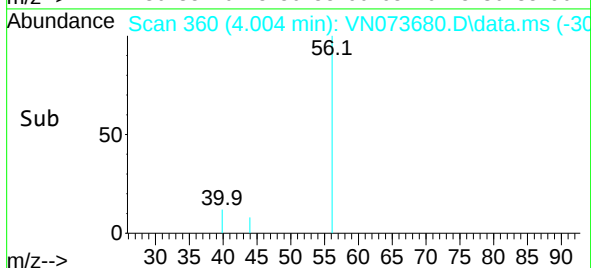
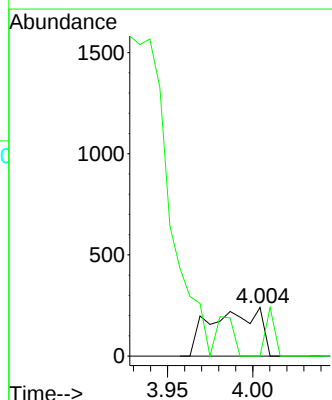
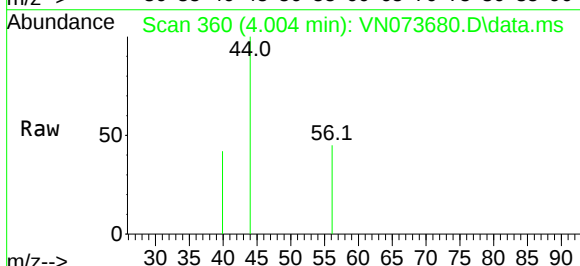
Acq: 02 Aug 2022 12:20

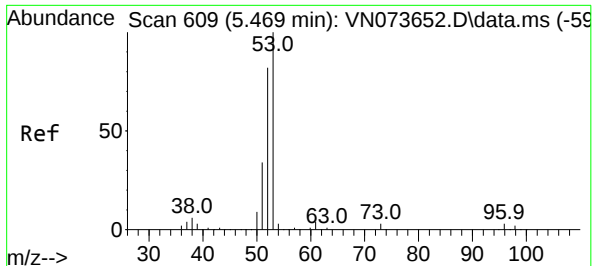
Tgt Ion: 56 Resp: 473

Ion Ratio Lower Upper

56 100

55 0.0 54.8 82.2#

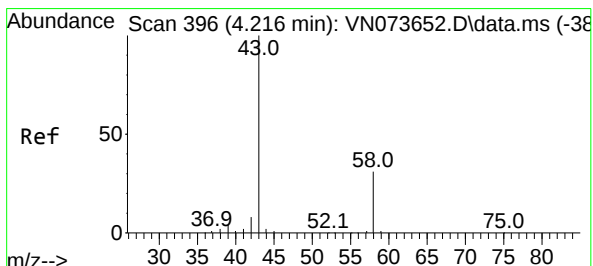
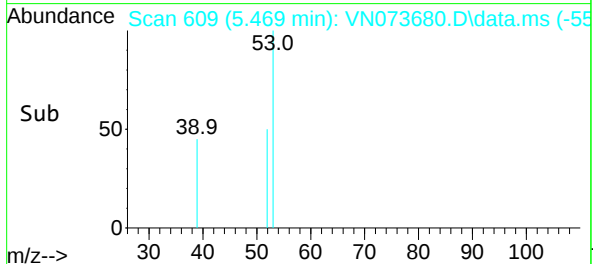
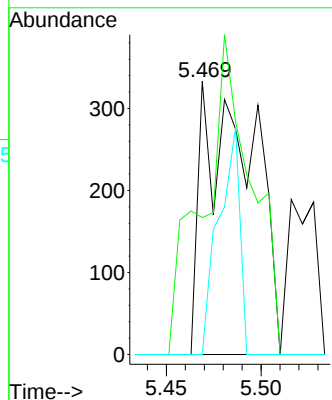
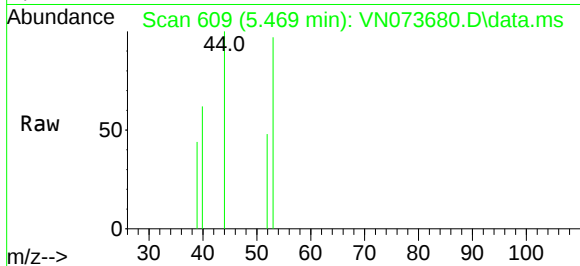




#15
Acrylonitrile
Concen: 0.229 ug/l
RT: 5.469 min Scan# 609
Delta R.T. -0.006 min
Lab File: VN073680.D
Acq: 02 Aug 2022 12:20

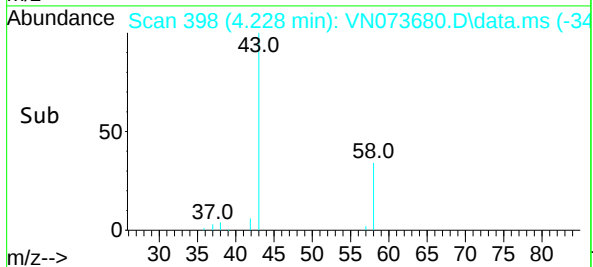
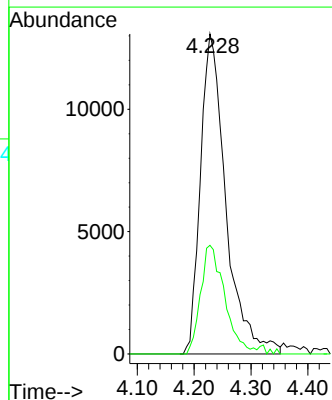
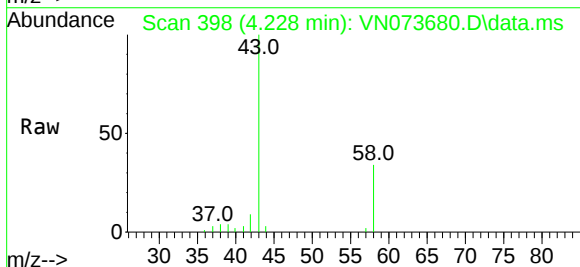
Instrument :
MSVOA_N
ClientSampleId :
MW-1R

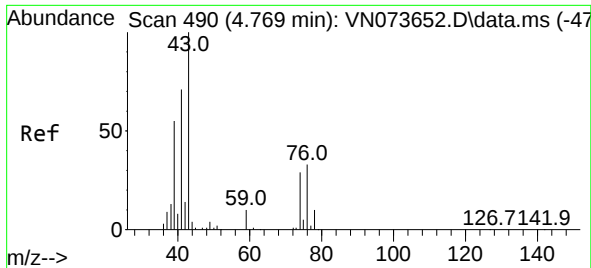
Tgt Ion: 53 Resp: 632
Ion Ratio Lower Upper
53 100
52 109.2 66.4 99.6#
51 34.0 28.5 42.7



#16
Acetone
Concen: 16.362 ug/l
RT: 4.228 min Scan# 398
Delta R.T. 0.006 min
Lab File: VN073680.D
Acq: 02 Aug 2022 12:20

Tgt Ion: 43 Resp: 40637
Ion Ratio Lower Upper
43 100
58 34.0 26.0 39.0

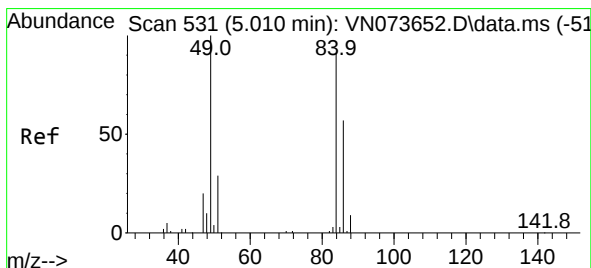
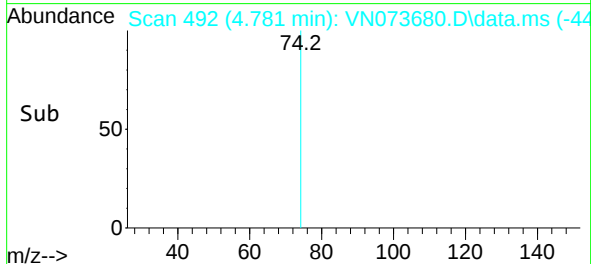
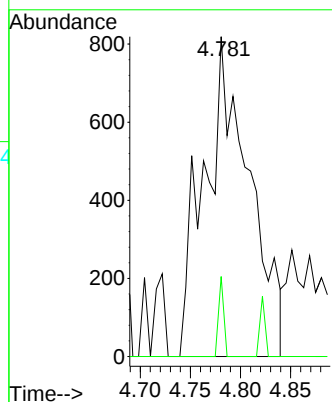
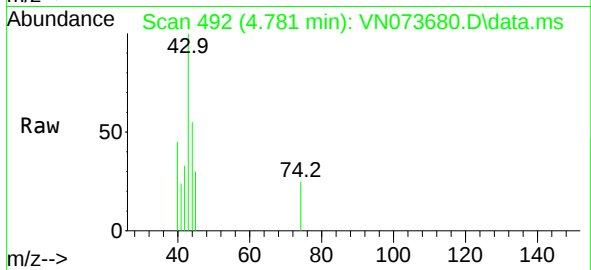




#18
Methyl Acetate
Concen: 0.413 ug/l
RT: 4.781 min Scan# 490
Delta R.T. -0.000 min
Lab File: VN073680.D
Acq: 02 Aug 2022 12:20

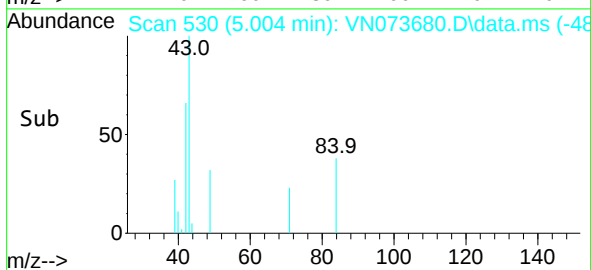
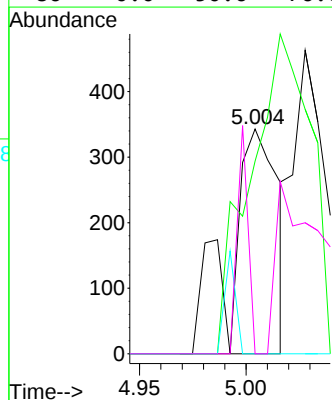
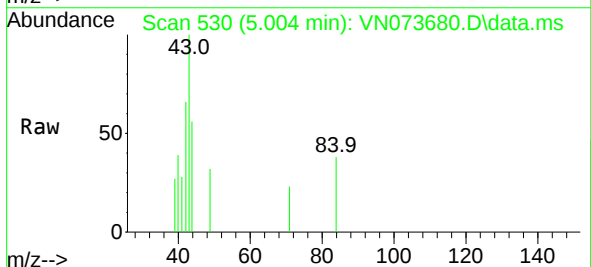
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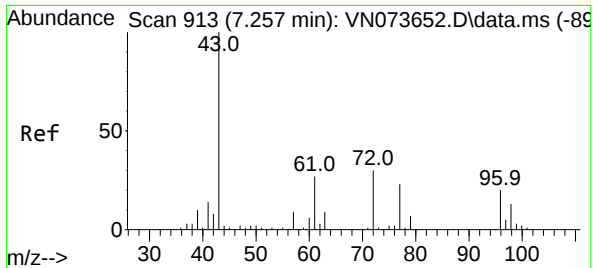
Tgt Ion: 43 Resp: 2551
Ion Ratio Lower Upper
43 100
74 2.8 21.6 32.4#



#20
Methylene Chloride
Concen: Below Cal
RT: 5.004 min Scan# 530
Delta R.T. -0.006 min
Lab File: VN073680.D
Acq: 02 Aug 2022 12:20

Tgt Ion: 84 Resp: 542
Ion Ratio Lower Upper
84 100
49 85.7 88.3 132.5#
51 0.0 28.2 42.2#
86 0.0 50.6 76.0#

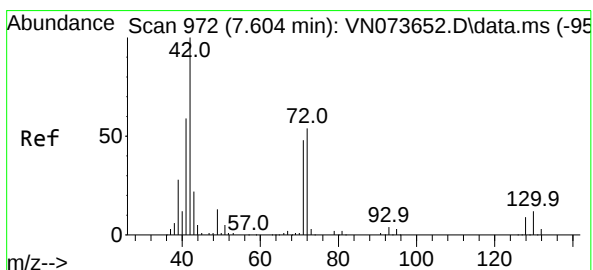
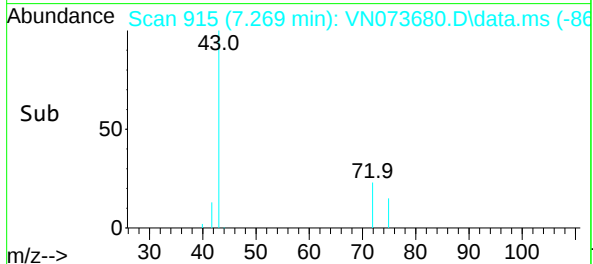
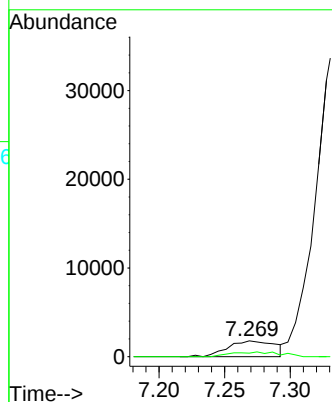
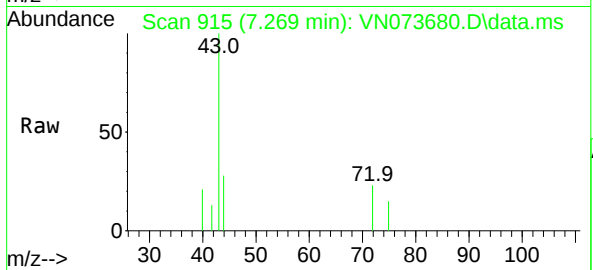




#25
2-Butanone
Concen: 1.166 ug/l
RT: 7.269 min Scan# 913
Delta R.T. 0.012 min
Lab File: VN073680.D
Acq: 02 Aug 2022 12:20

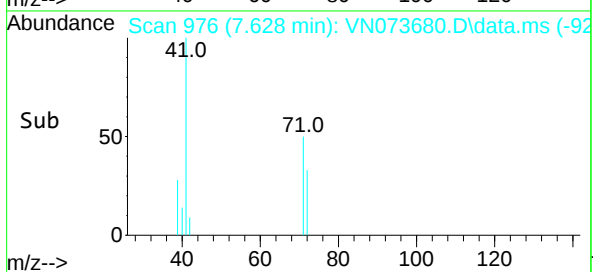
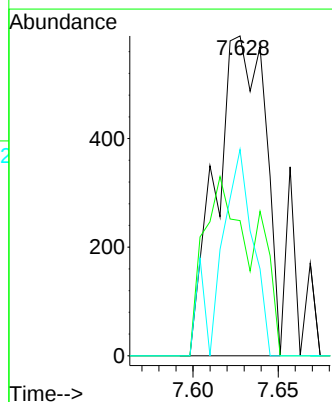
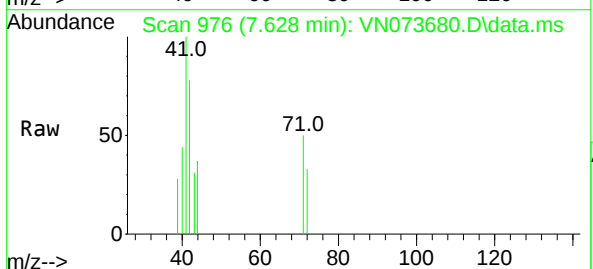
Instrument :
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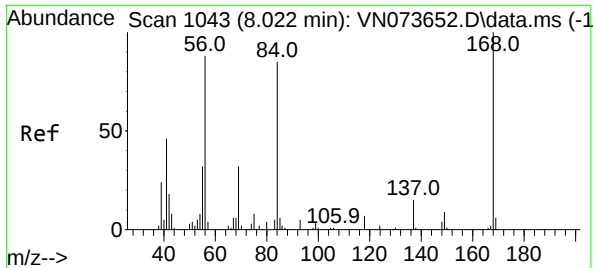
Tgt Ion: 43 Resp: 4498
Ion Ratio Lower Upper
43 100
72 22.7 23.7 35.5#



#29
Tetrahydrofuran
Concen: 0.483 ug/l
RT: 7.628 min Scan# 976
Delta R.T. 0.018 min
Lab File: VN073680.D
Acq: 02 Aug 2022 12:20

Tgt Ion: 42 Resp: 1178
Ion Ratio Lower Upper
42 100
72 57.0 39.7 59.5
71 43.0 36.6 55.0

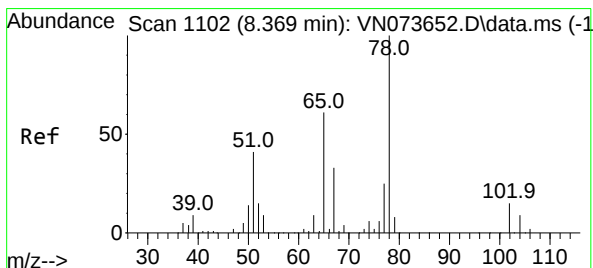
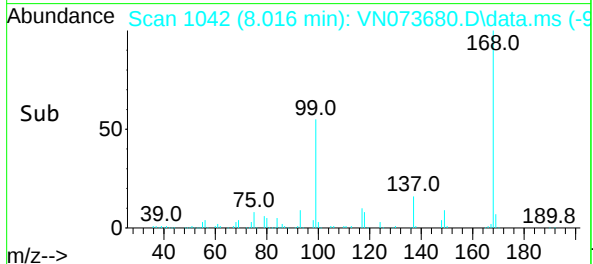
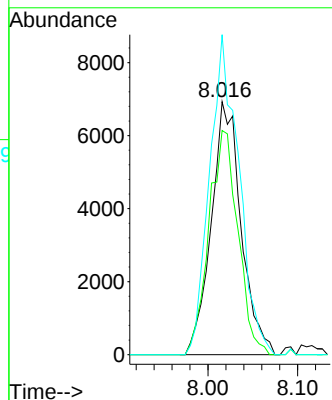
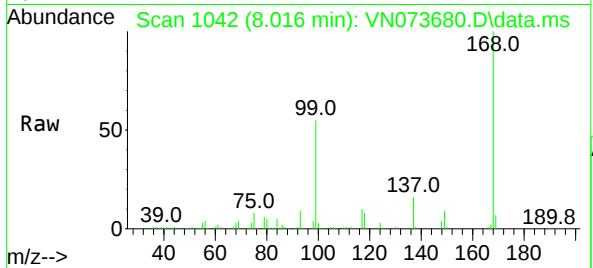




#31
Cyclohexane
Concen: 2.323 ug/l
RT: 8.016 min Scan# 1042
Delta R.T. -0.006 min
Lab File: VN073680.D
Acq: 02 Aug 2022 12:20

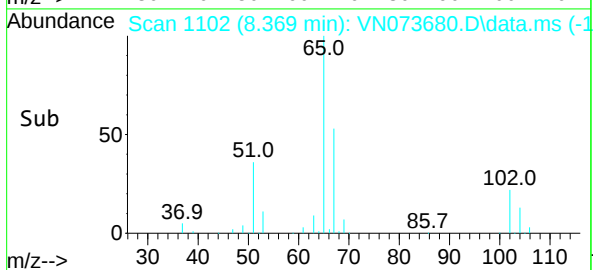
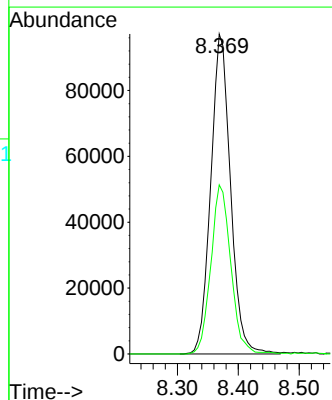
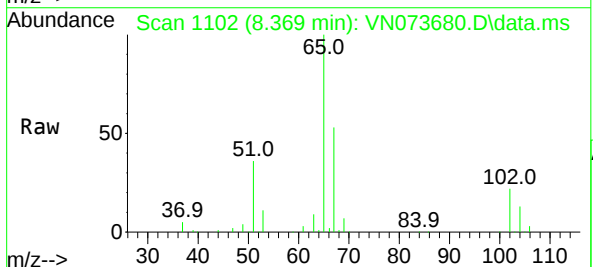
Instrument :
MSVOA_N
ClientSampleId :
MW-1R

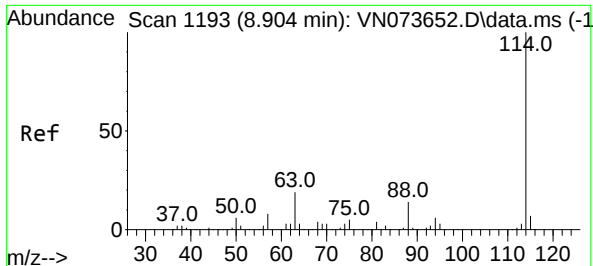
Tgt Ion: 56 Resp: 15990
Ion Ratio Lower Upper
56 100
69 88.6 27.8 41.8#
84 126.5 76.9 115.3#



#33
1,2-Dichloroethane-d4
Concen: 47.336 ug/l
RT: 8.369 min Scan# 1102
Delta R.T. -0.000 min
Lab File: VN073680.D
Acq: 02 Aug 2022 12:20

Tgt Ion: 65 Resp: 218878
Ion Ratio Lower Upper
65 100
67 53.5 0.0 104.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.904 min Scan# 1193

Delta R.T. -0.000 min

Lab File: VN073680.D

Acq: 02 Aug 2022 12:20

Instrument :

MSVOA_N

ClientSampleId :

MW-1R

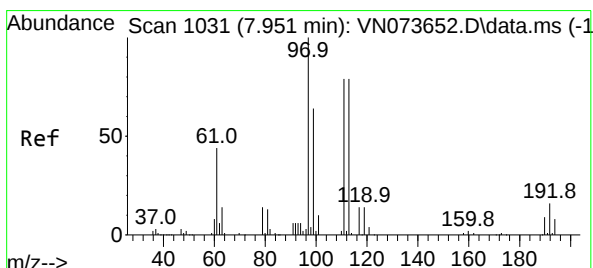
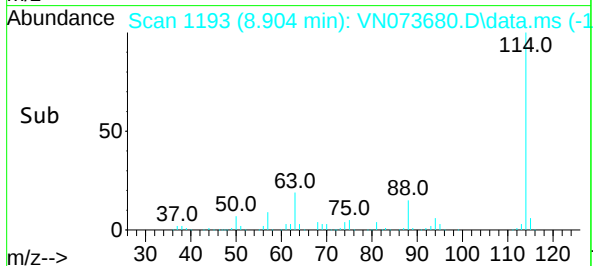
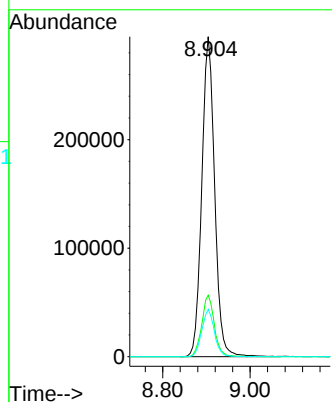
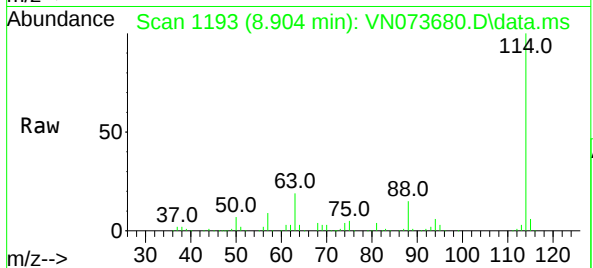
Tgt Ion:114 Resp: 604412

Ion Ratio Lower Upper

114 100

63 19.2 0.0 40.0

88 14.8 0.0 32.6



#35

Dibromofluoromethane

Concen: 54.135 ug/l

RT: 7.951 min Scan# 1031

Delta R.T. -0.000 min

Lab File: VN073680.D

Acq: 02 Aug 2022 12:20

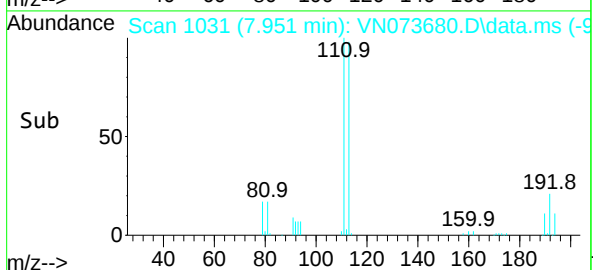
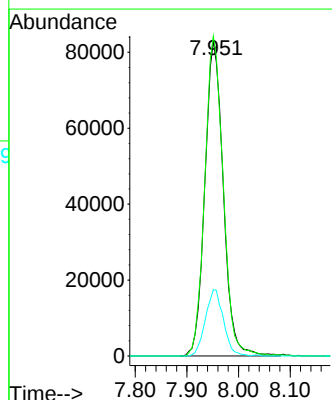
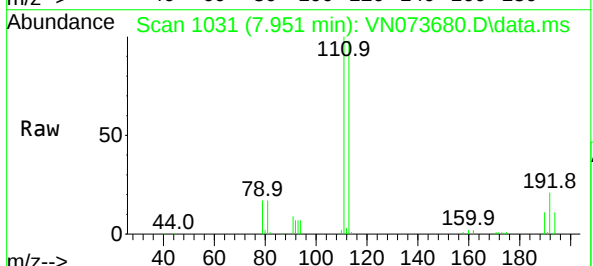
Tgt Ion:113 Resp: 205460

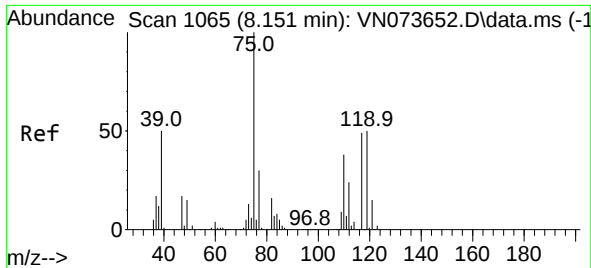
Ion Ratio Lower Upper

113 100

111 101.3 81.4 122.0

192 20.6 17.0 25.6

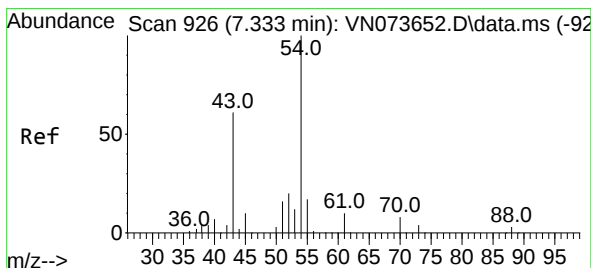
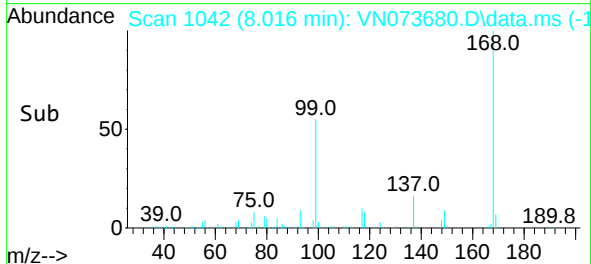
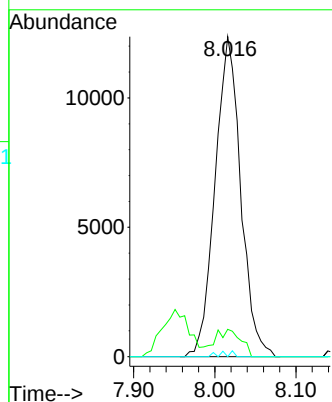
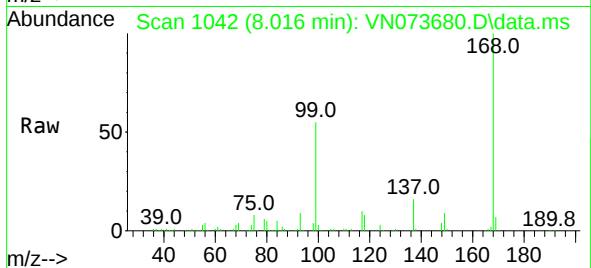




#36
1,1-Dichloropropene
Concen: 5.023 ug/l
RT: 8.016 min Scan# 1065
Delta R.T. -0.135 min
Lab File: VN073680.D
Acq: 02 Aug 2022 12:20

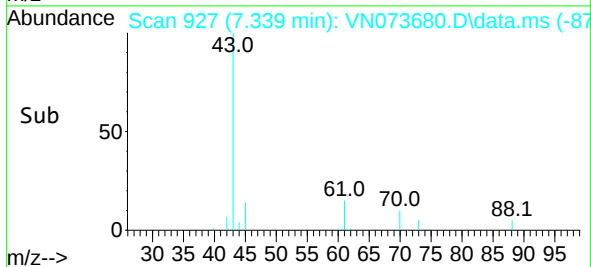
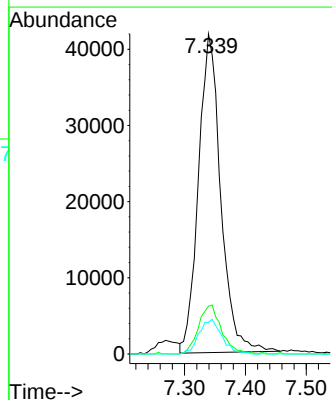
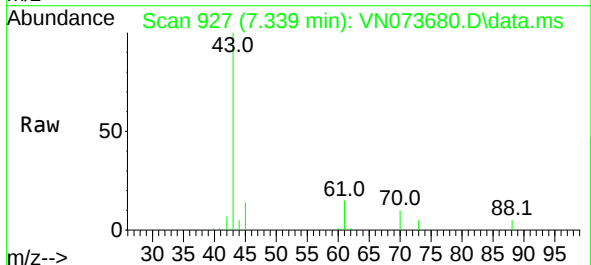
Instrument :
MSVOA_N
ClientSampleId :
MW-1R

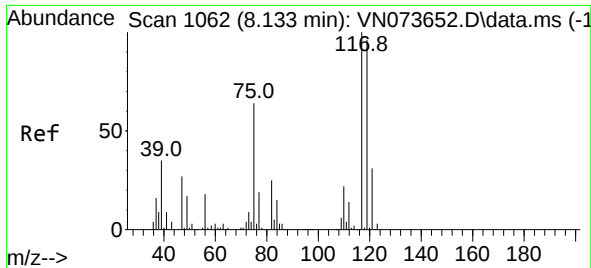
Tgt Ion: 75 Resp: 27168
Ion Ratio Lower Upper
75 100
110 8.5 18.3 54.8#
77 0.6 25.1 37.7#



#37
Ethyl Acetate
Concen: 14.929 ug/l
RT: 7.339 min Scan# 927
Delta R.T. -0.000 min
Lab File: VN073680.D
Acq: 02 Aug 2022 12:20

Tgt Ion: 43 Resp: 106354
Ion Ratio Lower Upper
43 100
61 15.8 11.8 17.6
70 11.1 9.3 13.9

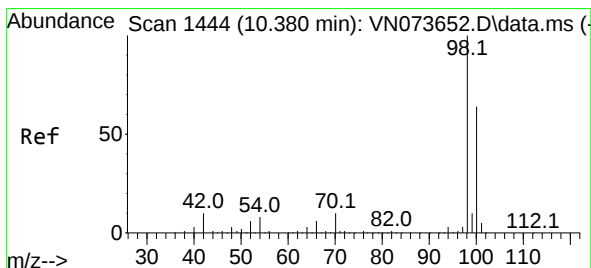
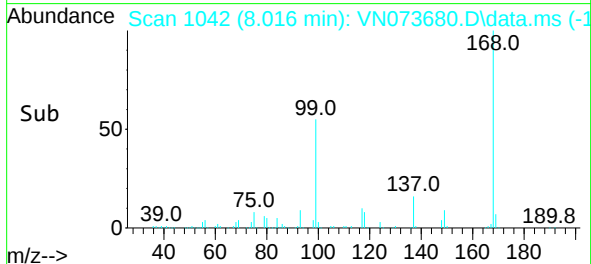
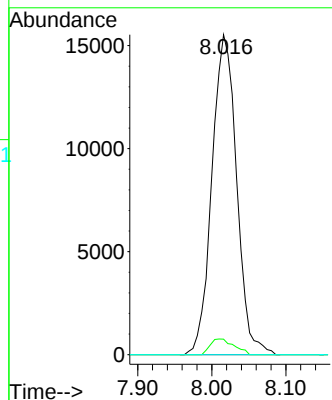
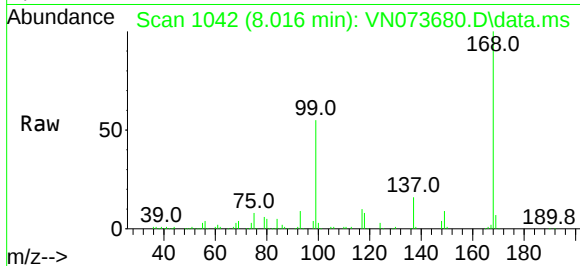




#38
Carbon Tetrachloride
Concen: 6.556 ug/l
RT: 8.016 min Scan# 1062
Delta R.T. -0.118 min
Lab File: VN073680.D
Acq: 02 Aug 2022 12:20

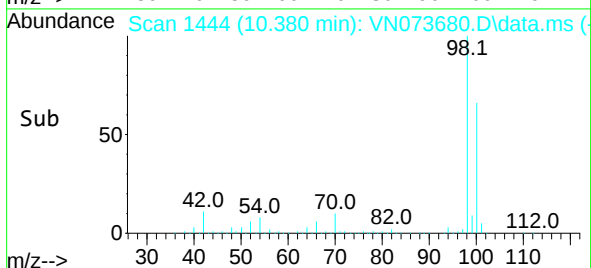
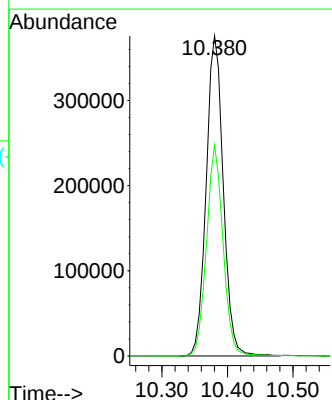
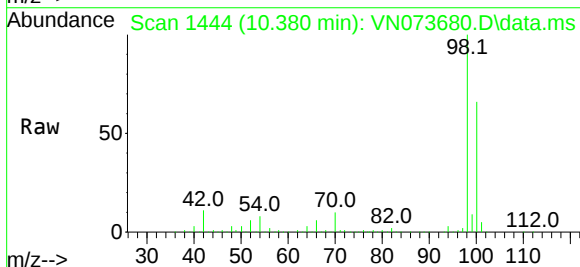
Instrument :
MSVOA_N
ClientSampleId :
MW-1R

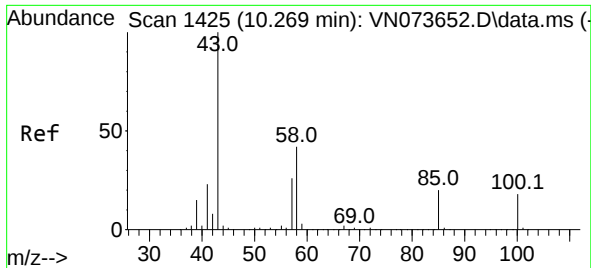
Tgt Ion:117 Resp: 36016
Ion Ratio Lower Upper
117 100
119 4.8 75.8 113.8#
121 0.0 24.6 37.0#



#50
Toluene-d8
Concen: 45.553 ug/l
RT: 10.380 min Scan# 1444
Delta R.T. -0.000 min
Lab File: VN073680.D
Acq: 02 Aug 2022 12:20

Tgt Ion: 98 Resp: 680332
Ion Ratio Lower Upper
98 100
100 64.1 52.6 78.8

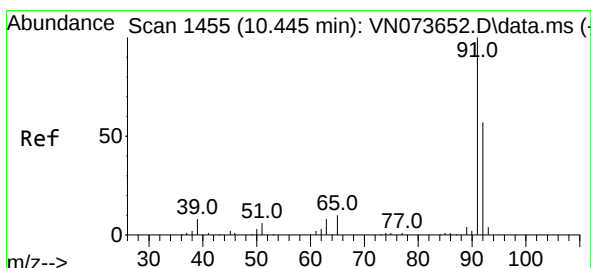
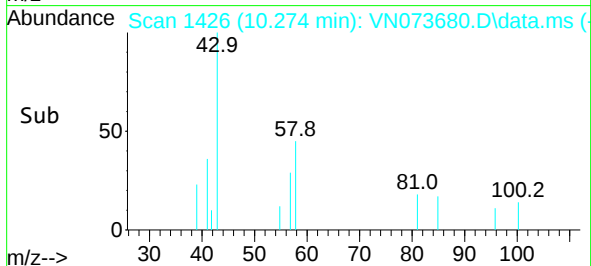
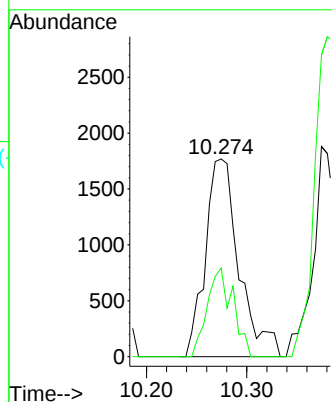
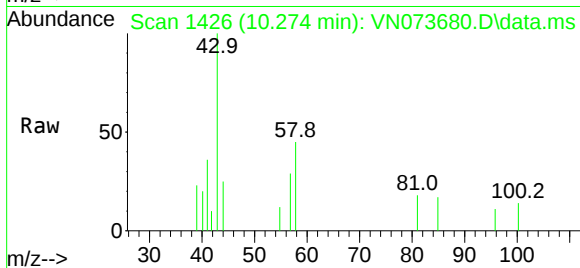




#51
4-Methyl-2-Pentanone
Concen: 0.597 ug/l
RT: 10.274 min Scan# 1426
Delta R.T. -0.001 min
Lab File: VN073680.D
Acq: 02 Aug 2022 12:20

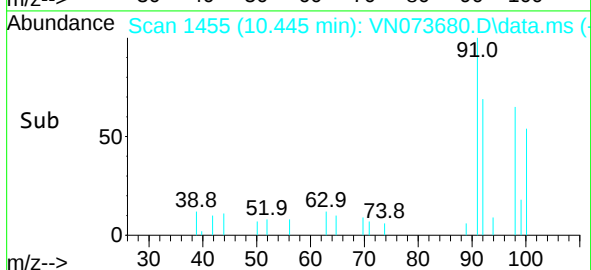
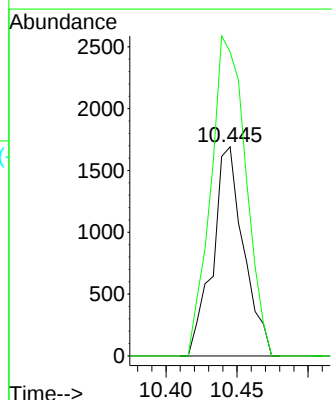
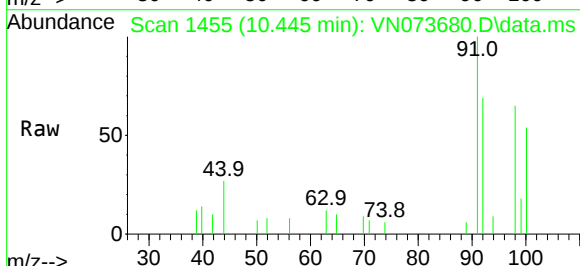
Instrument :
MSVOA_N
ClientSampleId :
MW-1R

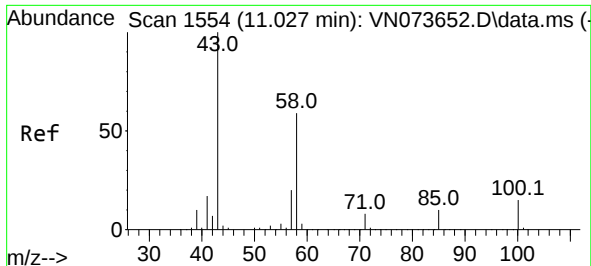
Tgt Ion: 43 Resp: 4122
Ion Ratio Lower Upper
43 100
58 34.1 34.1 51.1



#52
Toluene
Concen: 0.238 ug/l
RT: 10.445 min Scan# 1455
Delta R.T. -0.000 min
Lab File: VN073680.D
Acq: 02 Aug 2022 12:20

Tgt Ion: 92 Resp: 2558
Ion Ratio Lower Upper
92 100
91 173.3 138.6 207.8

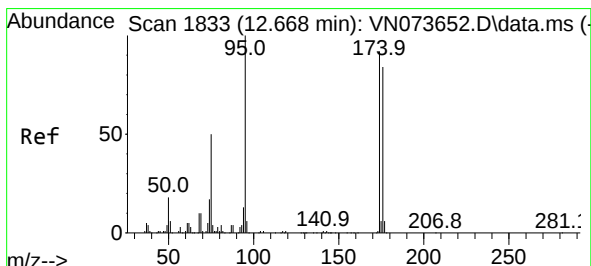
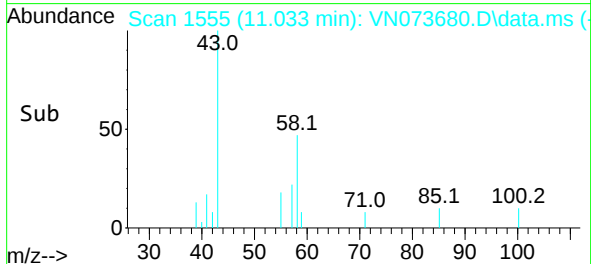
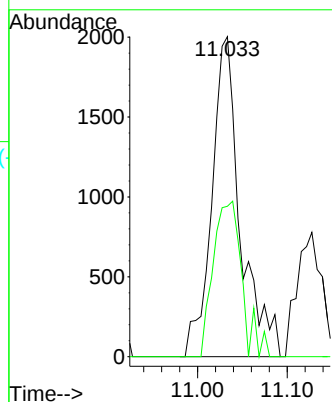
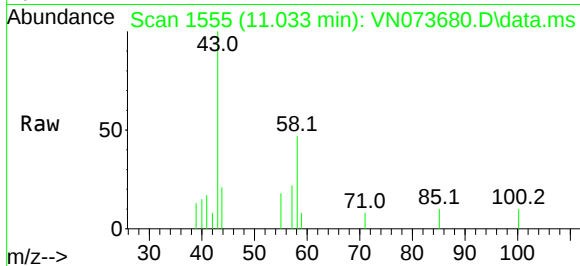




#59
2-Hexanone
Concen: 0.847 ug/l
RT: 11.033 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN073680.D
Acq: 02 Aug 2022 12:20

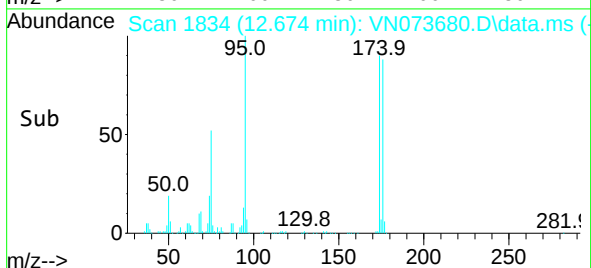
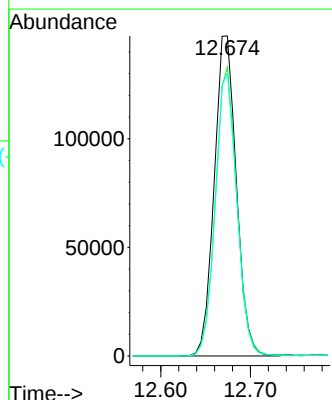
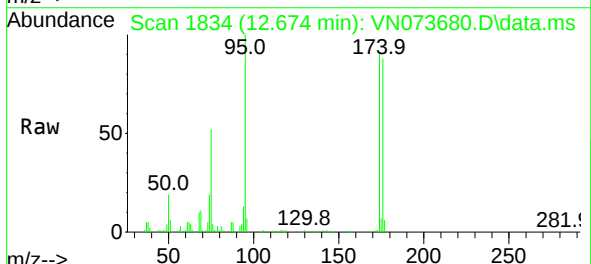
Instrument :
MSVOA_N
ClientSampleId :
MW-1R

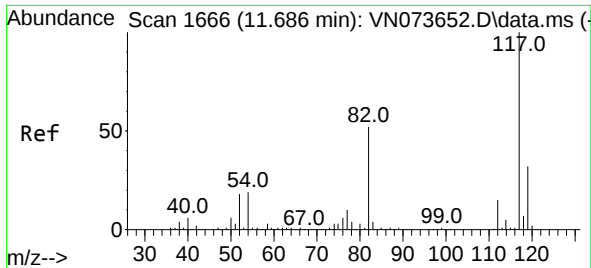
Tgt Ion: 43 Resp: 4428
Ion Ratio Lower Upper
43 100
58 48.5 29.7 89.1



#62
4-Bromofluorobenzene
Concen: 50.516 ug/l
RT: 12.674 min Scan# 1834
Delta R.T. 0.000 min
Lab File: VN073680.D
Acq: 02 Aug 2022 12:20

Tgt Ion: 95 Resp: 252569
Ion Ratio Lower Upper
95 100
174 87.9 0.0 167.6
176 85.5 0.0 163.4

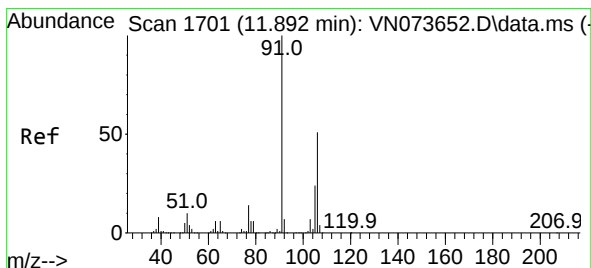
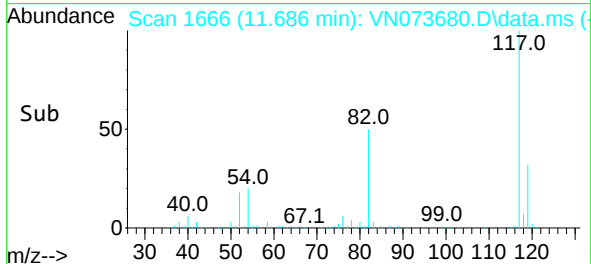
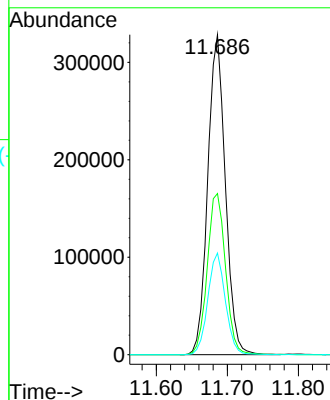
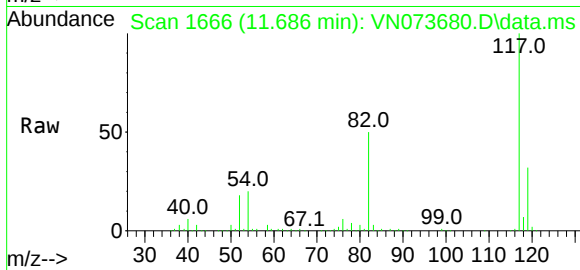




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.686 min Scan# 117
Delta R.T. -0.000 min
Lab File: VN073680.D
Acq: 02 Aug 2022 12:20

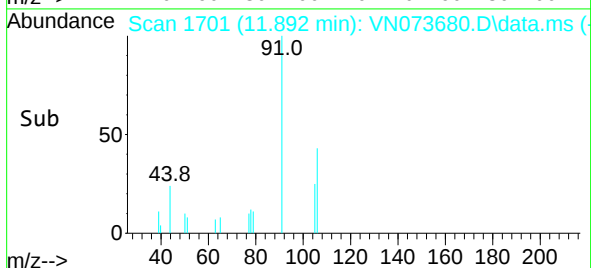
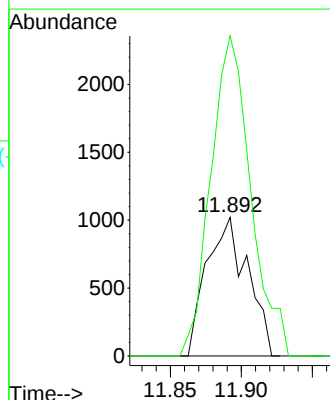
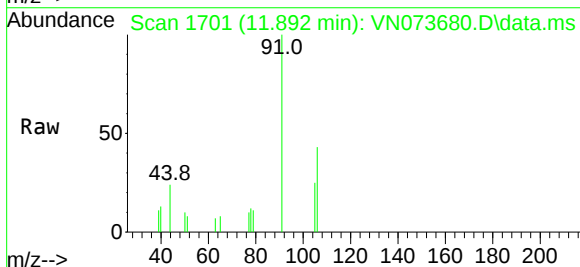
Instrument :
MSVOA_N
ClientSampleId :
MW-1R

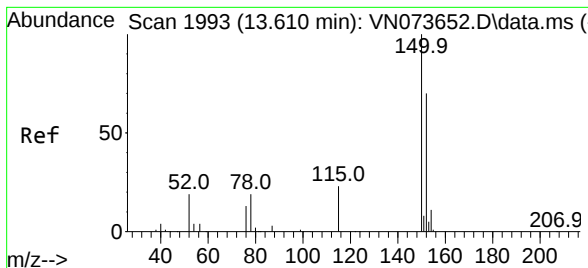
Tgt Ion:117 Resp: 565696
Ion Ratio Lower Upper
117 100
82 50.4 44.2 66.2
119 31.8 25.4 38.0



#68
m/p-Xylenes
Concen: 0.265 ug/l
RT: 11.892 min Scan# 1701
Delta R.T. -0.006 min
Lab File: VN073680.D
Acq: 02 Aug 2022 12:20

Tgt Ion:106 Resp: 2048
Ion Ratio Lower Upper
106 100
91 225.7 158.9 238.3





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.615 min Scan# 1994

Delta R.T. -0.000 min

Lab File: VN073680.D

Acq: 02 Aug 2022 12:20

Instrument :

MSVOA_N

ClientSampleId :

MW-1R

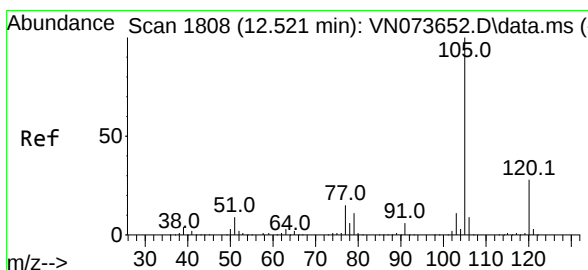
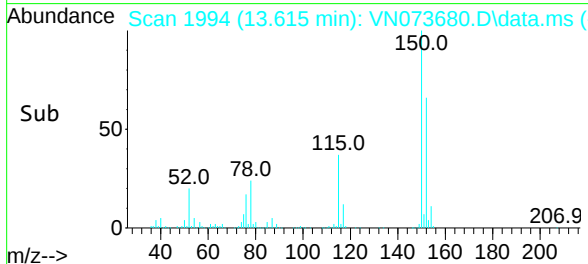
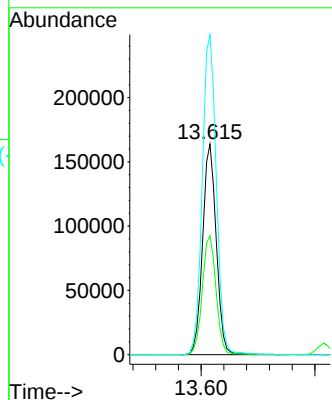
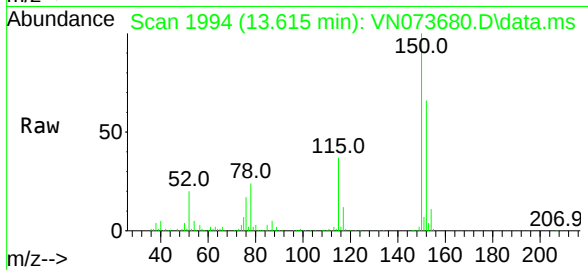
Tgt Ion:152 Resp: 273007

Ion Ratio Lower Upper

152 100

115 57.0 28.9 86.7

150 156.0 0.0 356.2



#73

Isopropylbenzene

Concen: 0.367 ug/l

RT: 12.521 min Scan# 1808

Delta R.T. -0.000 min

Lab File: VN073680.D

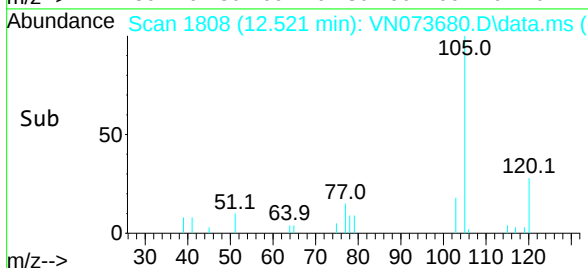
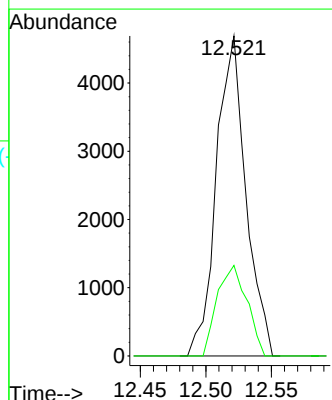
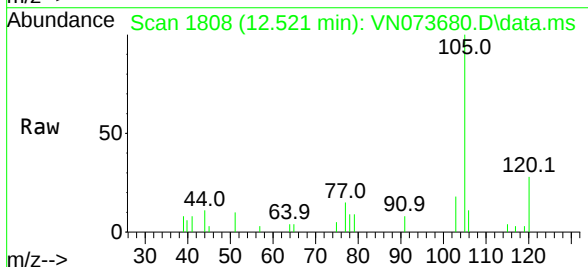
Acq: 02 Aug 2022 12:20

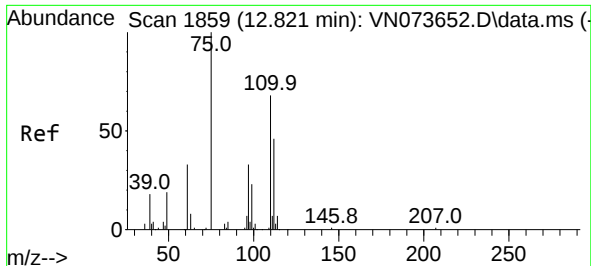
Tgt Ion:105 Resp: 7328

Ion Ratio Lower Upper

105 100

120 28.5 13.5 40.4

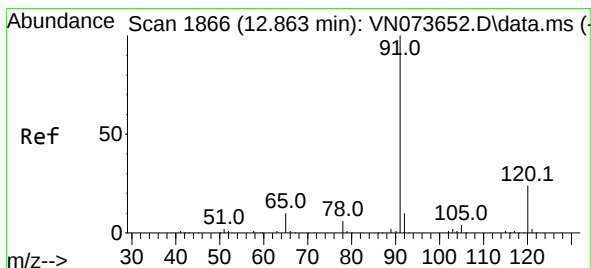
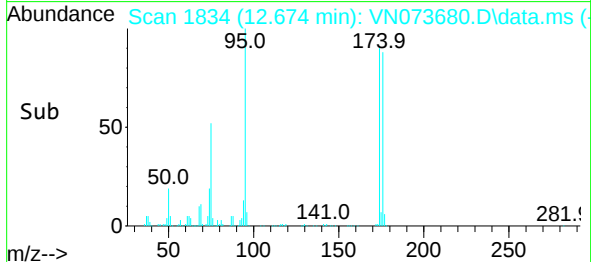
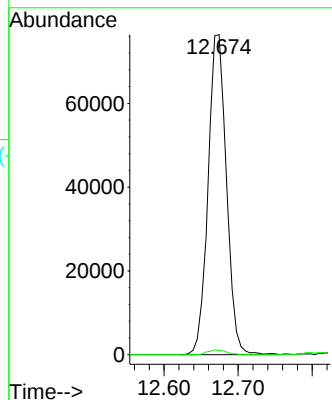
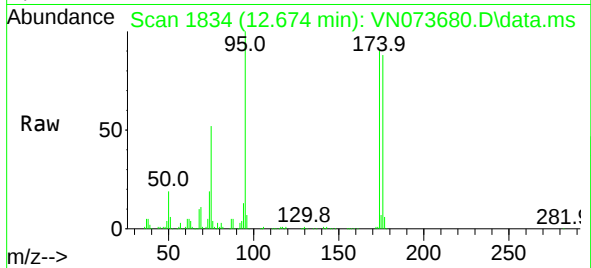




#76
1,2,3-Trichloropropane
Concen: 24.673 ug/l
RT: 12.674 min Scan# 1834
Delta R.T. -0.147 min
Lab File: VN073680.D
Acq: 02 Aug 2022 12:20

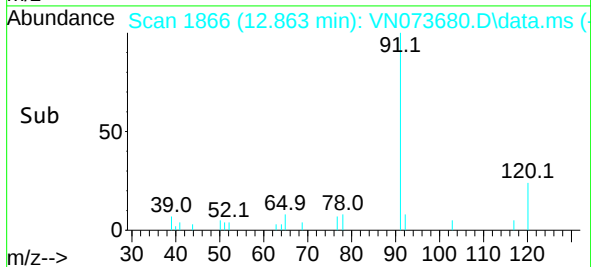
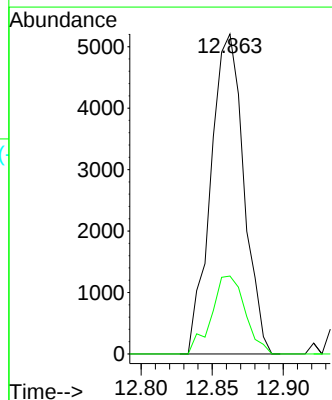
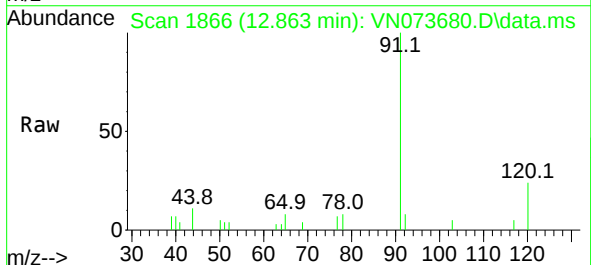
Instrument :
MSVOA_N
ClientSampleId :
MW-1R

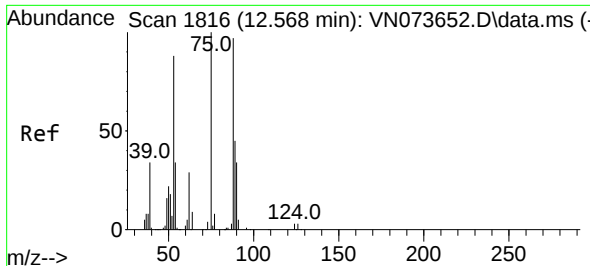
Tgt Ion: 75 Resp: 131565
Ion Ratio Lower Upper
75 100
77 1.5 98.5 295.5#



#78
n-propylbenzene
Concen: 0.375 ug/l
RT: 12.863 min Scan# 1866
Delta R.T. -0.000 min
Lab File: VN073680.D
Acq: 02 Aug 2022 12:20

Tgt Ion: 91 Resp: 8437
Ion Ratio Lower Upper
91 100
120 24.7 11.9 35.5

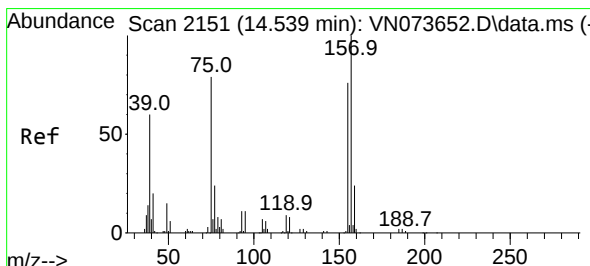
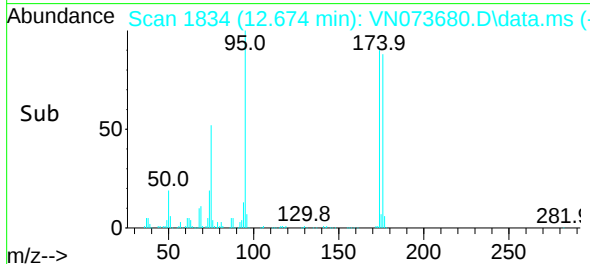
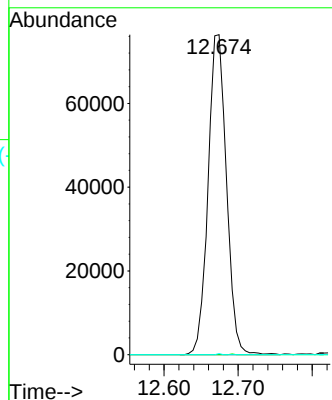
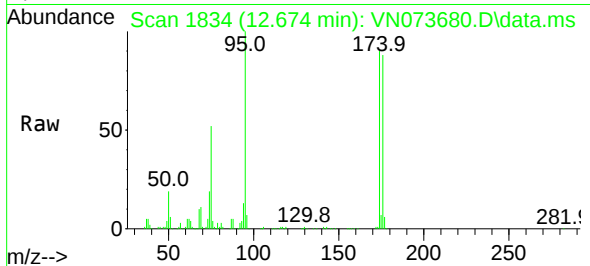




#81
 trans-1,4-Dichloro-2-butene
 Concen: 62.452 ug/l
 RT: 12.674 min Scan# 1834
 Delta R.T. 0.106 min
 Lab File: VN073680.D
 Acq: 02 Aug 2022 12:20

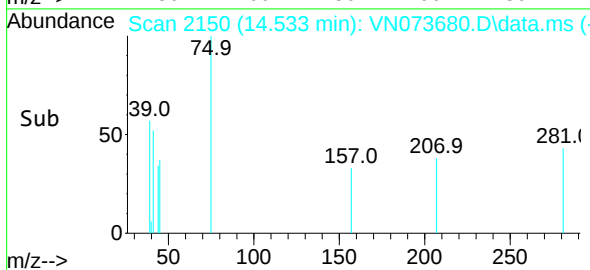
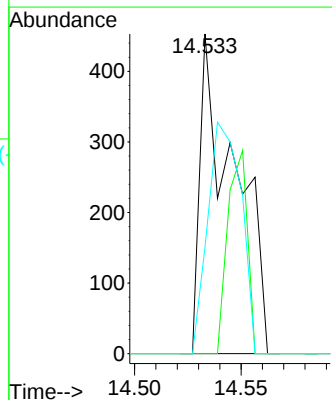
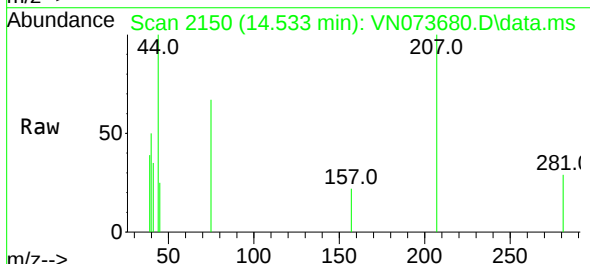
Instrument :
 MSVOA_N
 ClientSampleId :
 MW-1R

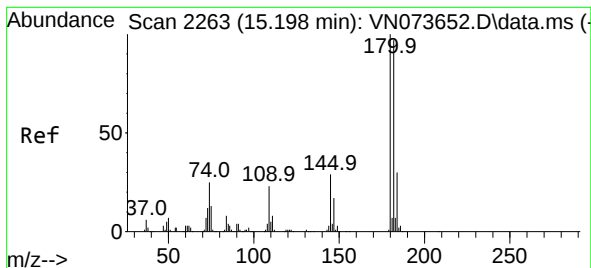
Tgt Ion: 75 Resp: 131565
 Ion Ratio Lower Upper
 75 100
 53 0.0 78.0 117.0#
 89 0.1 37.2 55.8#



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 0.330 ug/l
 RT: 14.533 min Scan# 2150
 Delta R.T. -0.012 min
 Lab File: VN073680.D
 Acq: 02 Aug 2022 12:20

Tgt Ion: 75 Resp: 511
 Ion Ratio Lower Upper
 75 100
 155 35.8 44.9 134.5#
 157 69.3 59.0 176.8





#93

1,2,4-Trichlorobenzene

Concen: 0.620 ug/l

RT: 15.204 min Scan# 21

Delta R.T. 0.006 min

Lab File: VN073680.D

Acq: 02 Aug 2022 12:20

Instrument :

MSVOA_N

ClientSampleId :

MW-1R

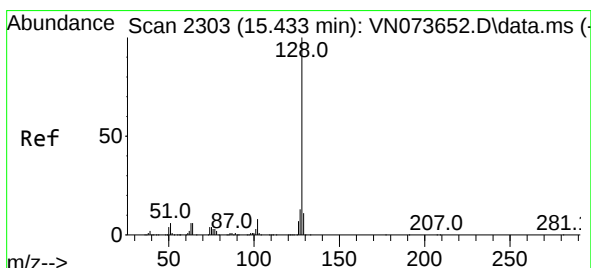
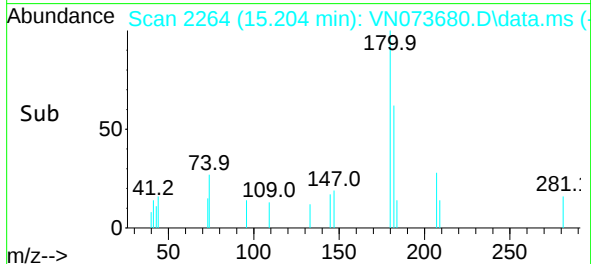
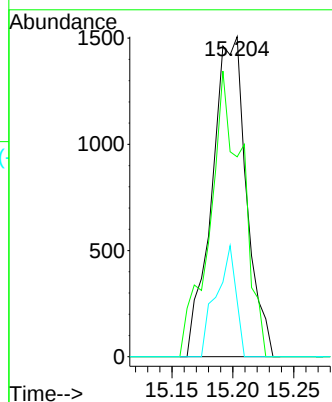
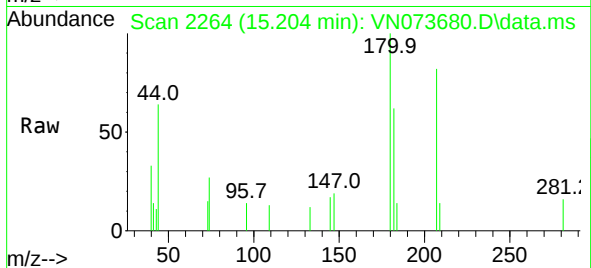
Tgt Ion:180 Resp: 2966

Ion Ratio Lower Upper

180 100

182 85.0 47.5 142.5

145 19.8 14.5 43.5



#95

Naphthalene

Concen: 1.653 ug/l

RT: 15.439 min Scan# 2304

Delta R.T. 0.006 min

Lab File: VN073680.D

Acq: 02 Aug 2022 12:20

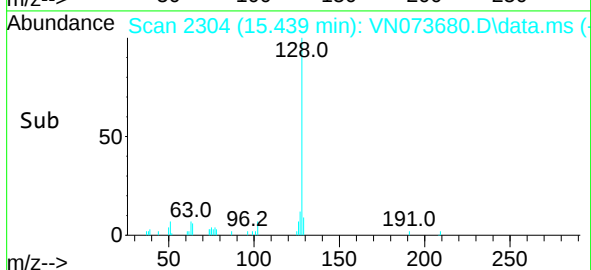
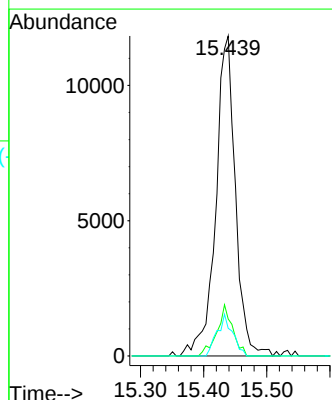
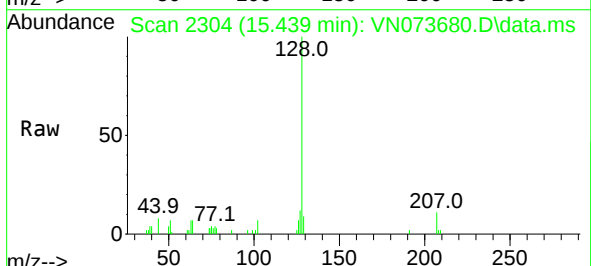
Tgt Ion:128 Resp: 25646

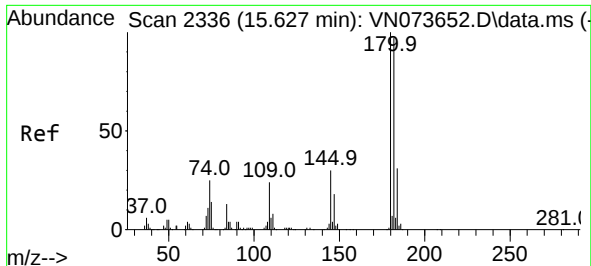
Ion Ratio Lower Upper

128 100

127 12.7 10.3 15.5

129 10.2 8.6 13.0





#96
 1,2,3-Trichlorobenzene
 Concen: 0.781 ug/l
 RT: 15.627 min Scan# 21
 Delta R.T. -0.000 min
 Lab File: VN073680.D
 Acq: 02 Aug 2022 12:20

Instrument :
 MSVOA_N
 ClientSampleId :
 MW-1R

Tgt Ion	Ratio	Lower	Upper
180	100		
182	78.2	47.8	143.3
145	12.1	15.5	46.5#

