

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN042523\
 Data File : VN077472.D
 Acq On : 25 Apr 2023 16:20
 Operator : JC\MD
 Sample : 02460-06 40X
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MW-1

Quant Time: Apr 26 04:20:18 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N042423W.M
 Quant Title : SW846 8260
 QLast Update : Tue Apr 25 02:50:59 2023
 Response via : Initial Calibration

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

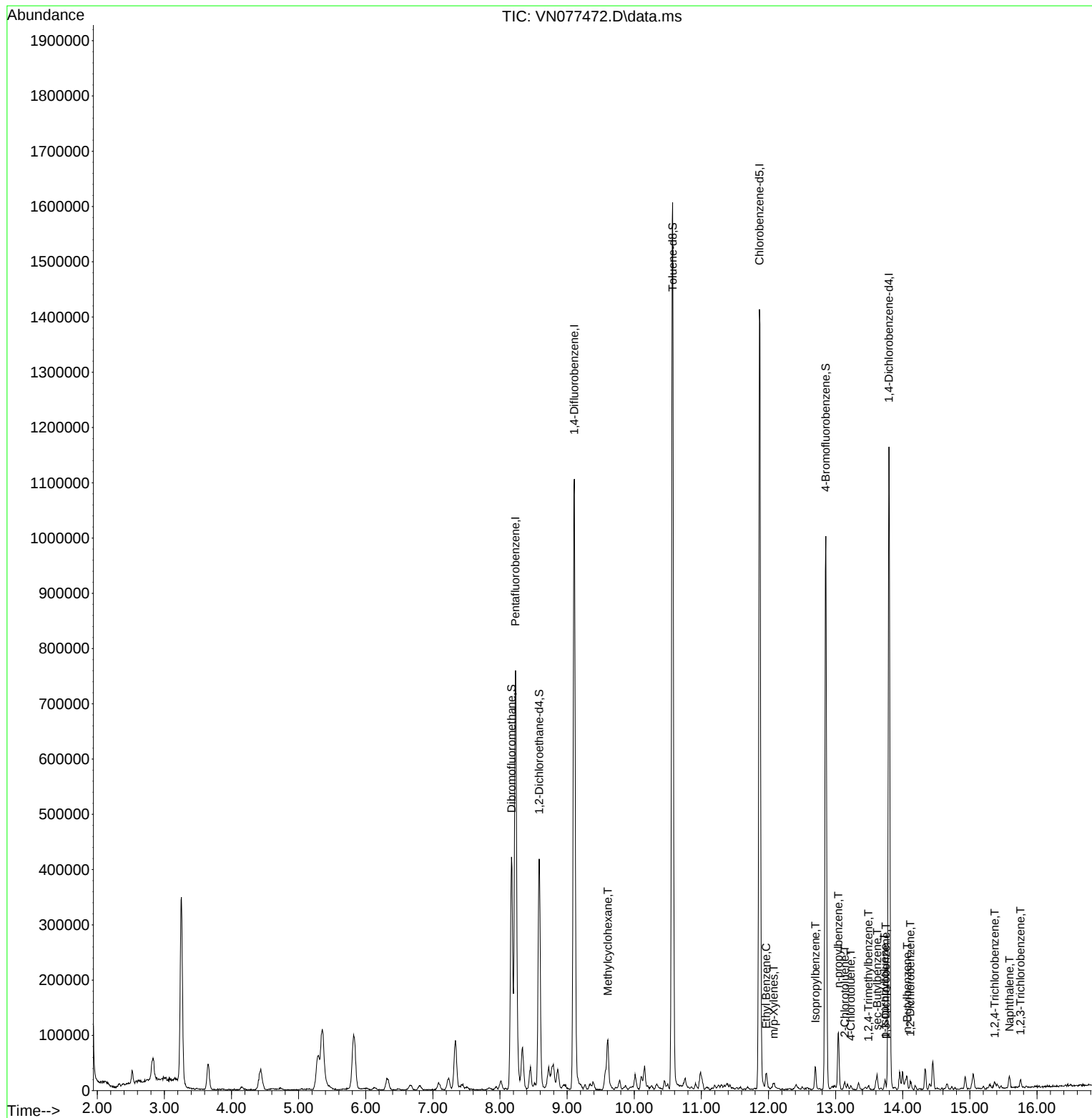
Internal Standards						
1) Pentafluorobenzene	8.230	168	529092	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.107	114	989893	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.866	117	863004	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.795	152	307433	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.583	65	349679	50.649	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 101.300%			
35) Dibromofluoromethane	8.172	113	301282	50.638	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 101.280%			
50) Toluene-d8	10.571	98	1172705	51.428	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 102.860%			
62) 4-Bromofluorobenzene	12.854	95	362048	48.529	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 97.060%			
Target Compounds					Qvalue	
39) Methylcyclohexane	9.607	83	41737	3.685	ug/l	97
67) Ethyl Benzene	11.966	91	18120	0.564	ug/l	98
68) m/p-Xylenes	12.077	106	4142	0.332	ug/l	92
73) Isopropylbenzene	12.701	105	28260	0.991	ug/l	99
78) n-propylbenzene	13.042	91	86964	2.757	ug/l	97
79) 2-Chlorotoluene	13.136	91	4337	0.223	ug/l	75
82) 4-Chlorotoluene	13.224	91	5761	0.317	ug/l	88
84) 1,2,4-Trimethylbenzene	13.489	105	5157	0.261	ug/l	97
85) sec-Butylbenzene	13.618	105	13976	0.495	ug/l #	50
86) p-Isopropyltoluene	13.730	119	5260	0.242	ug/l	95
87) 1,3-Dichlorobenzene	13.748	146	3969	0.359	ug/l	95
89) n-Butylbenzene	14.065	91	14022	0.834	ug/l	98
91) 1,2-Dichlorobenzene	14.112	146	3512	0.320	ug/l	89
93) 1,2,4-Trichlorobenzene	15.371	180	3757	2.454	ug/l	98
95) Naphthalene	15.589	128	18262	3.301	ug/l	97
96) 1,2,3-Trichlorobenzene	15.753	180	3875	2.341	ug/l	94

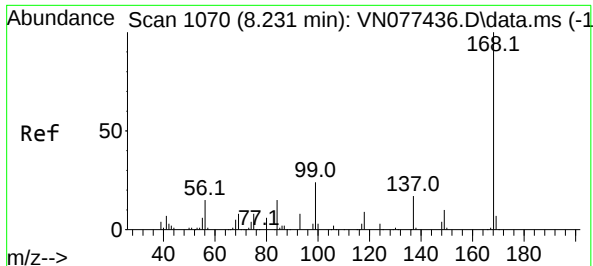
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Apr 26 04:20:18 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N042423W.M
Quant Title : SW846 8260
QLast Update : Tue Apr 25 02:50:59 2023
Response via : Initial Calibration

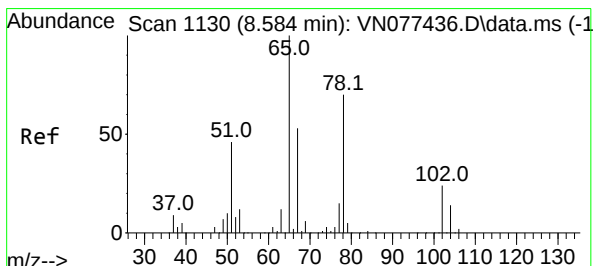
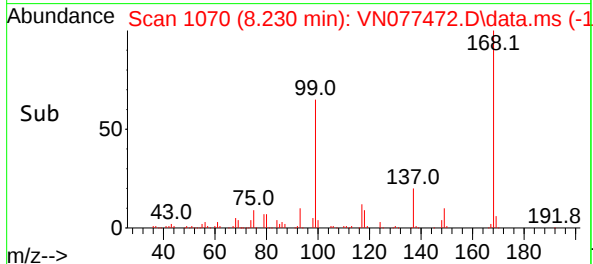
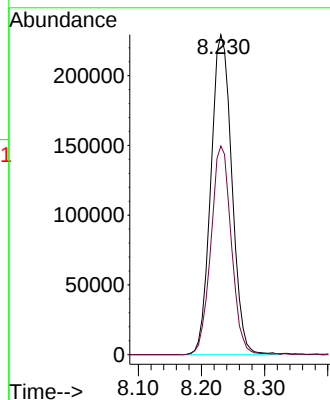
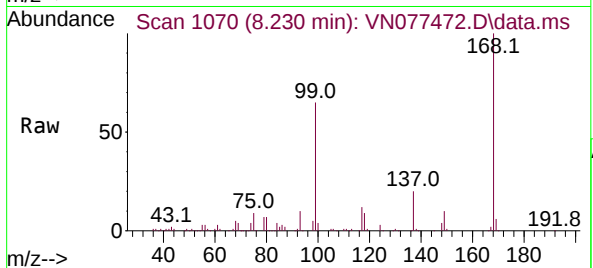




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.230 min Scan# 1070
Delta R.T. -0.001 min
Lab File: VN077472.D
Acq: 25 Apr 2023 16:20

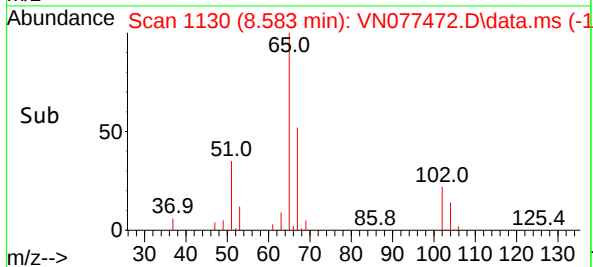
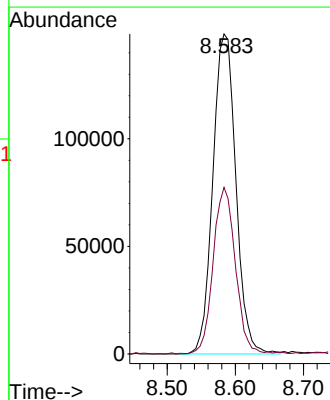
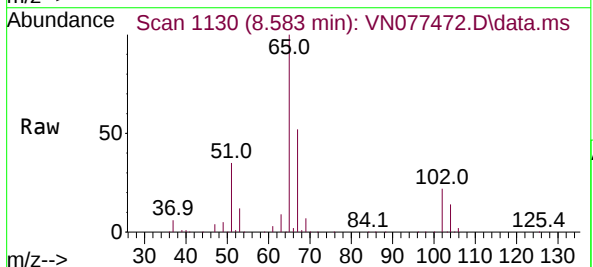
Instrument :
MSVOA_N
ClientSampleId :
MW-1

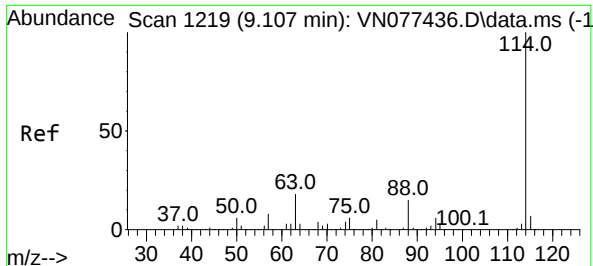
Tgt Ion:168 Resp: 529092
Ion Ratio Lower Upper
168 100
99 65.2 53.0 79.6



#33
1,2-Dichloroethane-d4
Concen: 50.649 ug/l
RT: 8.583 min Scan# 1130
Delta R.T. -0.000 min
Lab File: VN077472.D
Acq: 25 Apr 2023 16:20

Tgt Ion: 65 Resp: 349679
Ion Ratio Lower Upper
65 100
67 49.8 0.0 106.6

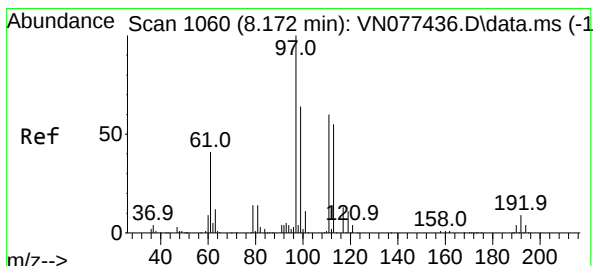
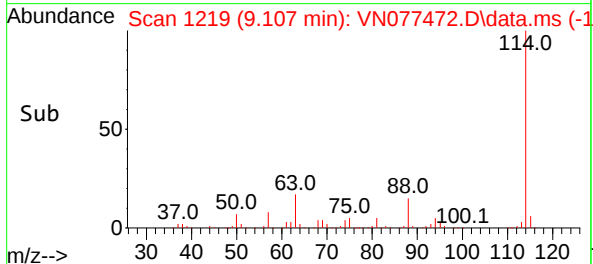
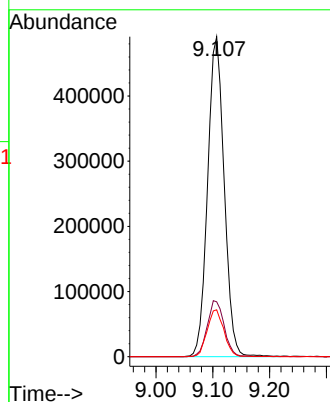
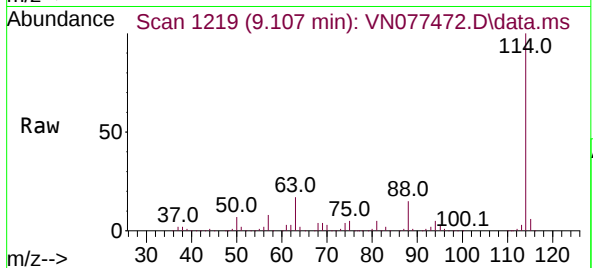




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.107 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN077472.D
Acq: 25 Apr 2023 16:20

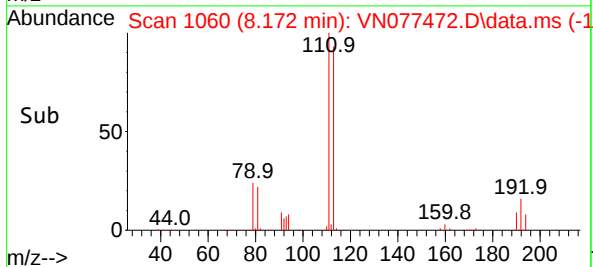
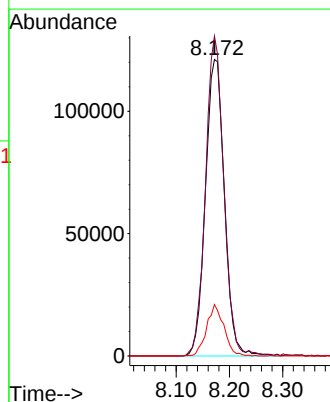
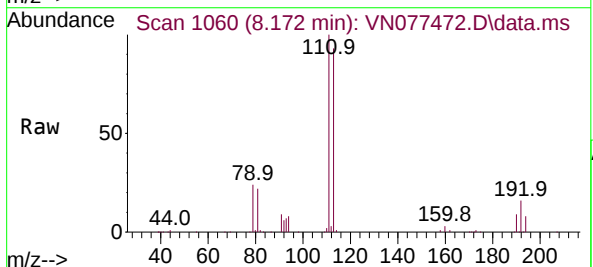
Instrument :
MSVOA_N
ClientSampleId :
MW-1

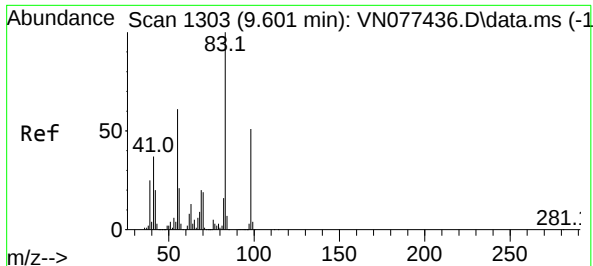
Tgt Ion:114 Resp: 989893
Ion Ratio Lower Upper
114 100
63 17.2 0.0 36.4
88 14.7 0.0 30.6



#35
Dibromofluoromethane
Concen: 50.638 ug/l
RT: 8.172 min Scan# 1060
Delta R.T. -0.000 min
Lab File: VN077472.D
Acq: 25 Apr 2023 16:20

Tgt Ion:113 Resp: 301282
Ion Ratio Lower Upper
113 100
111 102.5 82.6 123.8
192 15.8 12.7 19.1





#39

Methylcyclohexane

Concen: 3.685 ug/l

RT: 9.607 min Scan# 11

Delta R.T. 0.006 min

Lab File: VN077472.D

Acq: 25 Apr 2023 16:20

Instrument :

MSVOA_N

ClientSampleId :

MW-1

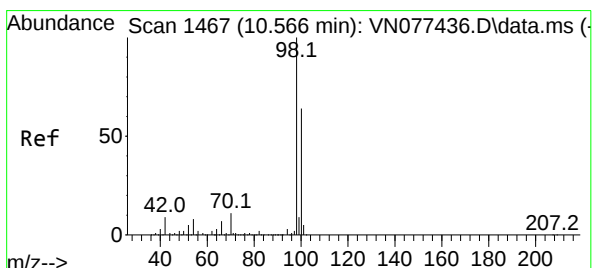
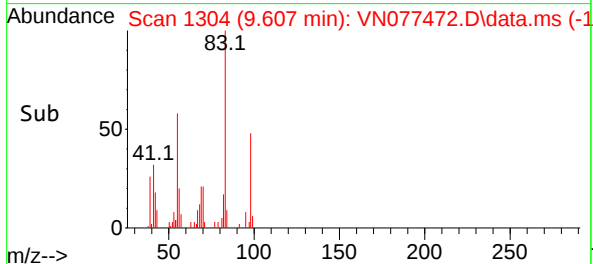
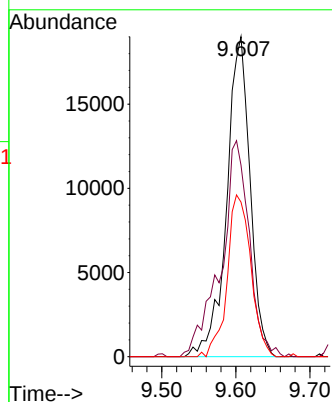
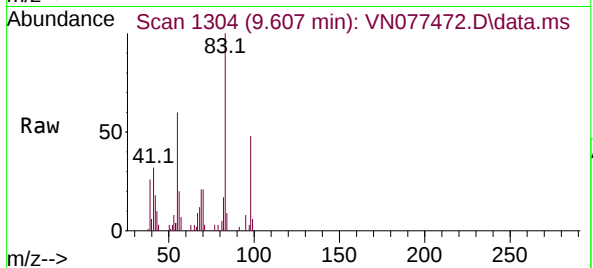
Tgt Ion: 83 Resp: 41737

Ion Ratio Lower Upper

83 100

55 59.9 49.1 73.7

98 48.3 40.6 61.0



#50

Toluene-d8

Concen: 51.428 ug/l

RT: 10.571 min Scan# 1468

Delta R.T. 0.006 min

Lab File: VN077472.D

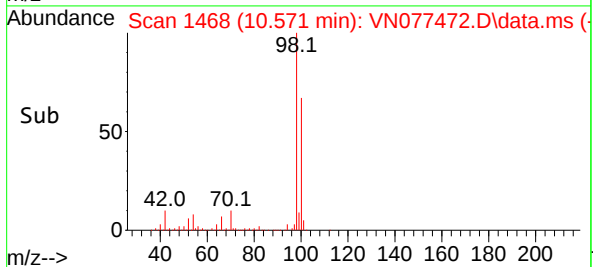
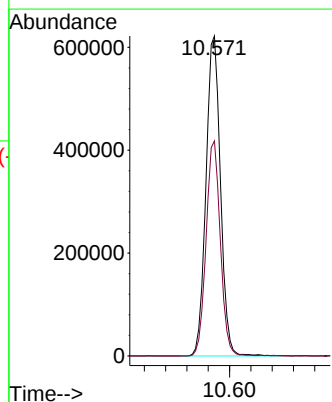
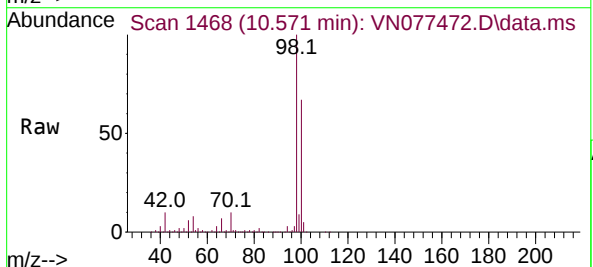
Acq: 25 Apr 2023 16:20

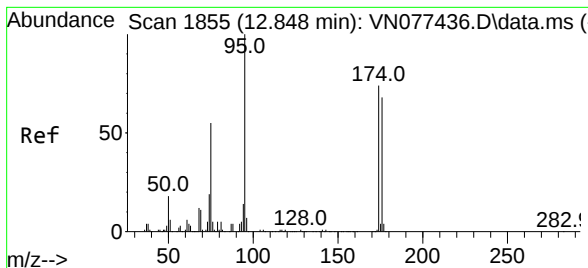
Tgt Ion: 98 Resp: 1172705

Ion Ratio Lower Upper

98 100

100 66.0 52.0 78.0

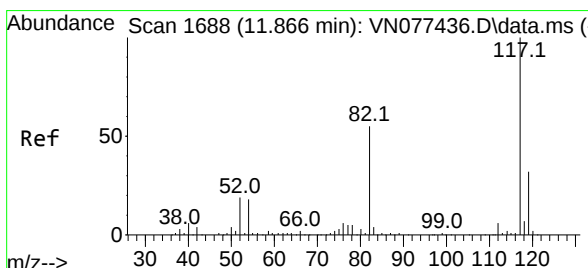
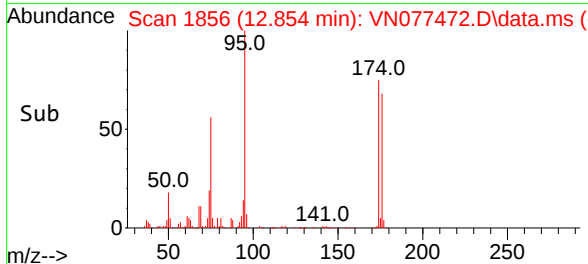
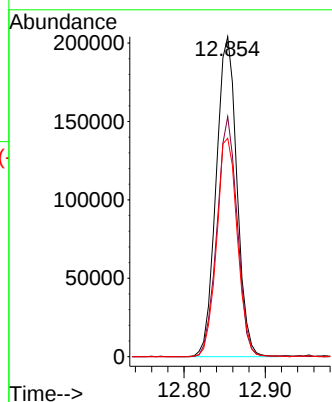
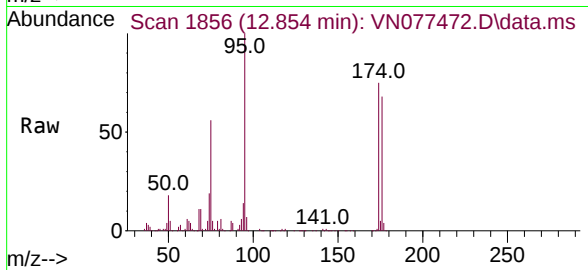




#62
4-Bromofluorobenzene
Concen: 48.529 ug/l
RT: 12.854 min Scan# 1855
Delta R.T. 0.006 min
Lab File: VN077472.D
Acq: 25 Apr 2023 16:20

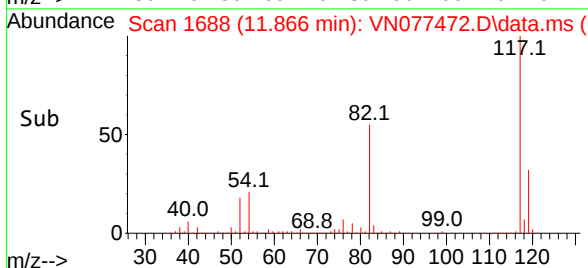
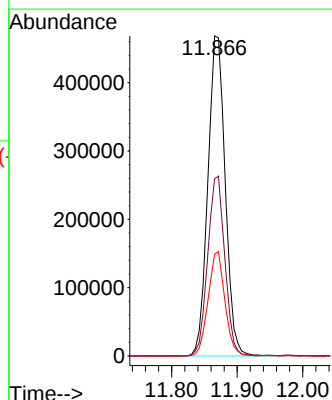
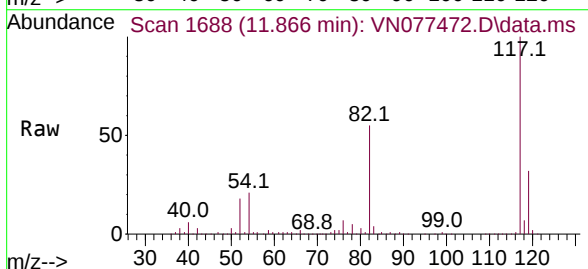
Instrument :
MSVOA_N
ClientSampleId :
MW-1

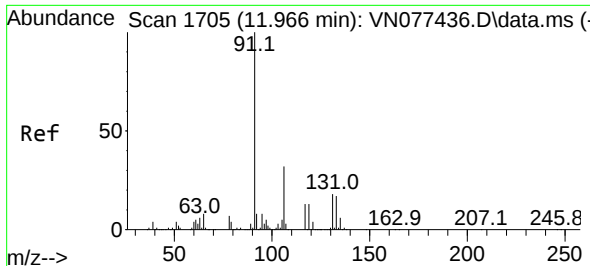
Tgt Ion: 95 Resp: 362048
Ion Ratio Lower Upper
95 100
174 73.1 0.0 143.8
176 68.5 0.0 135.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.866 min Scan# 1688
Delta R.T. -0.000 min
Lab File: VN077472.D
Acq: 25 Apr 2023 16:20

Tgt Ion: 117 Resp: 863004
Ion Ratio Lower Upper
117 100
82 55.4 44.0 66.0
119 31.8 25.6 38.4

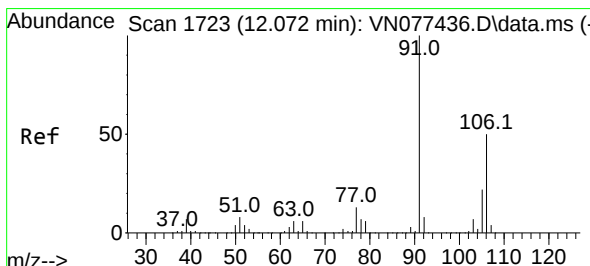
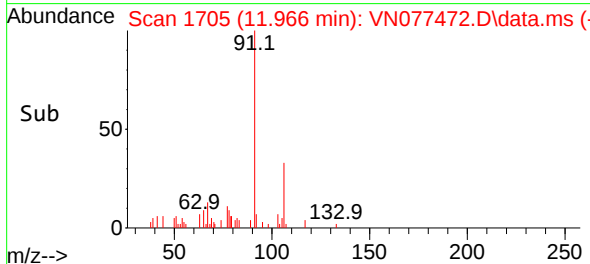
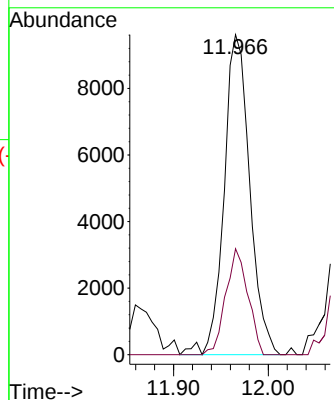
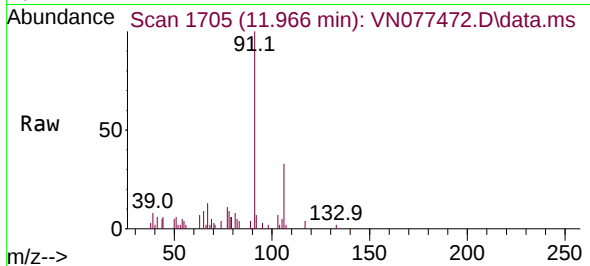




#67
Ethyl Benzene
Concen: 0.564 ug/l
RT: 11.966 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN077472.D
Acq: 25 Apr 2023 16:20

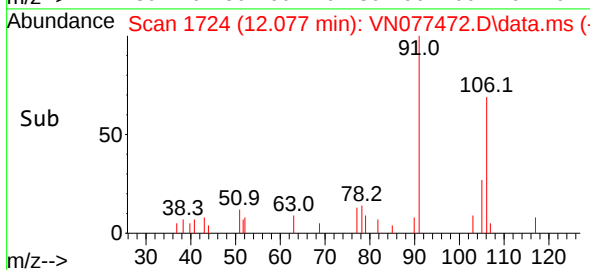
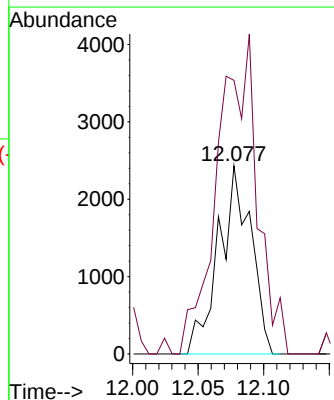
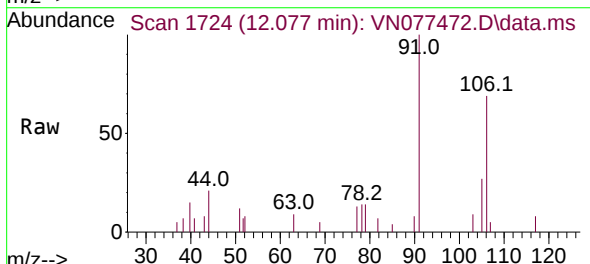
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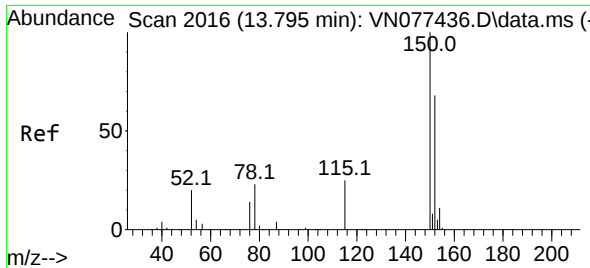
Tgt Ion: 91 Resp: 18120
Ion Ratio Lower Upper
91 100
106 33.1 25.6 38.4



#68
m/p-Xylenes
Concen: 0.332 ug/l
RT: 12.077 min Scan# 1724
Delta R.T. 0.006 min
Lab File: VN077472.D
Acq: 25 Apr 2023 16:20

Tgt Ion:106 Resp: 4142
Ion Ratio Lower Upper
106 100
91 211.3 159.6 239.4

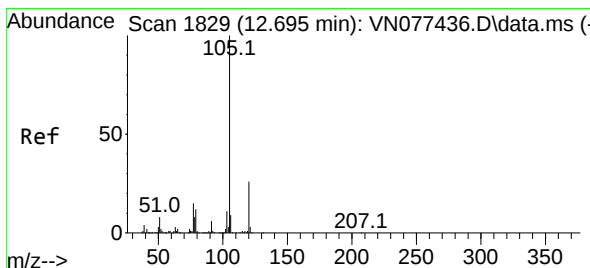
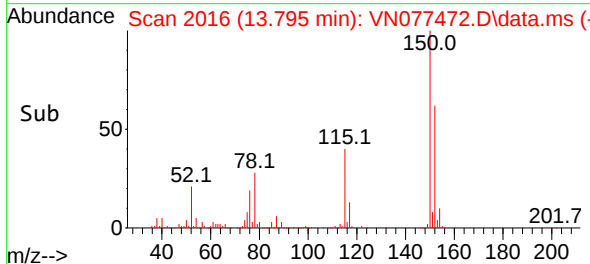
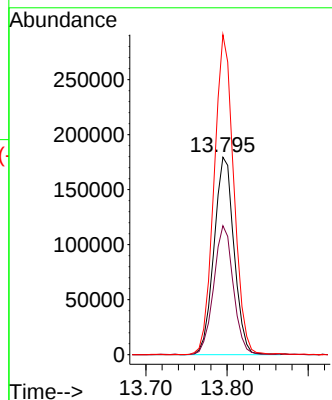
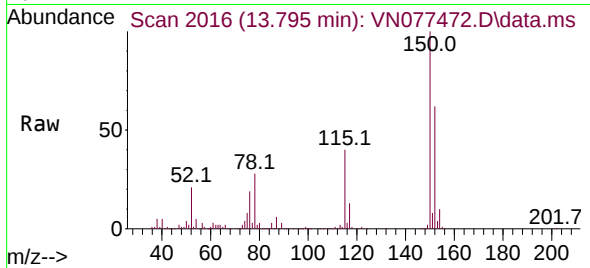




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.795 min Scan# 2016
 Delta R.T. -0.000 min
 Lab File: VN077472.D
 Acq: 25 Apr 2023 16:20

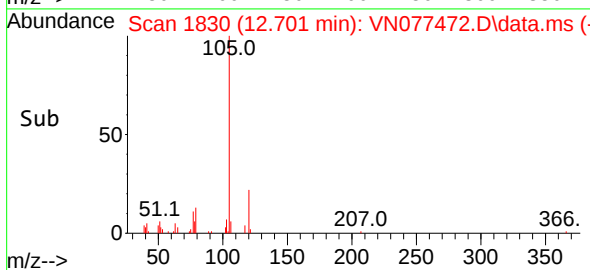
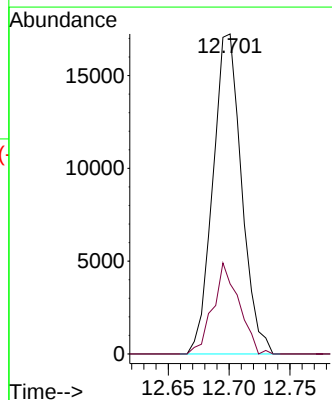
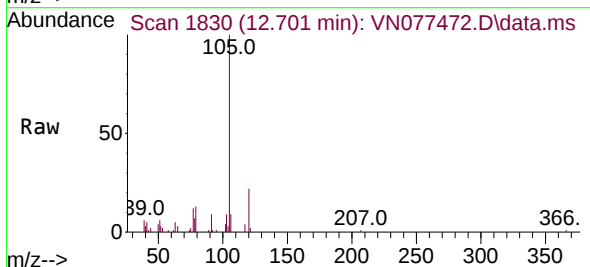
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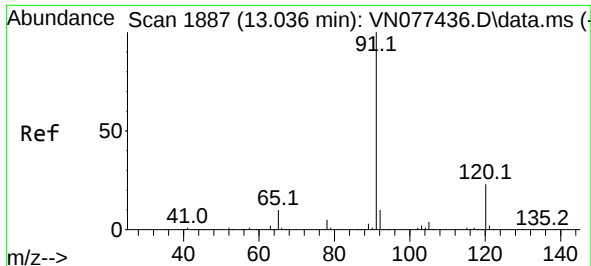
Tgt Ion:152 Resp: 307433
 Ion Ratio Lower Upper
 152 100
 115 64.0 32.3 96.8
 150 159.3 0.0 355.8



#73
 Isopropylbenzene
 Concen: 0.991 ug/l
 RT: 12.701 min Scan# 1830
 Delta R.T. 0.006 min
 Lab File: VN077472.D
 Acq: 25 Apr 2023 16:20

Tgt Ion:105 Resp: 28260
 Ion Ratio Lower Upper
 105 100
 120 25.8 13.1 39.1

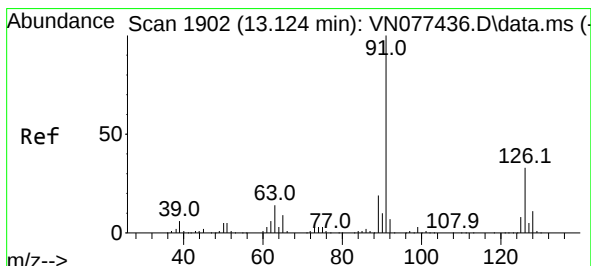
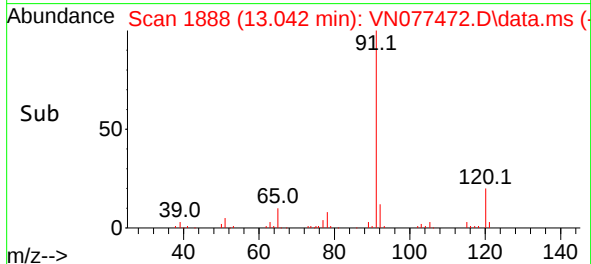
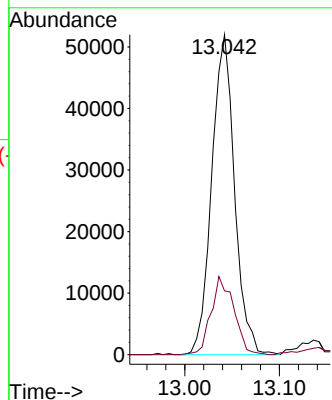
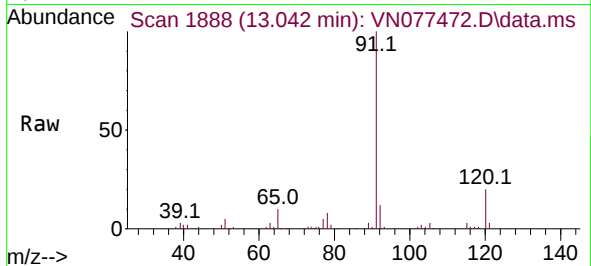




#78
n-propylbenzene
Concen: 2.757 ug/l
RT: 13.042 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN077472.D
Acq: 25 Apr 2023 16:20

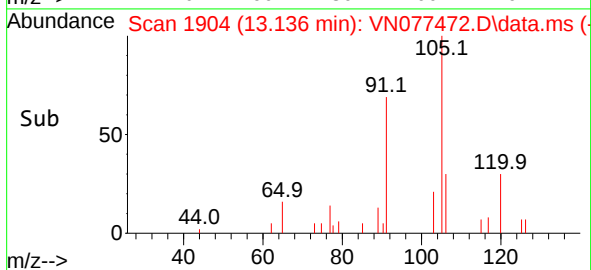
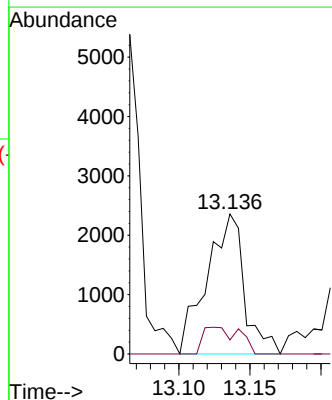
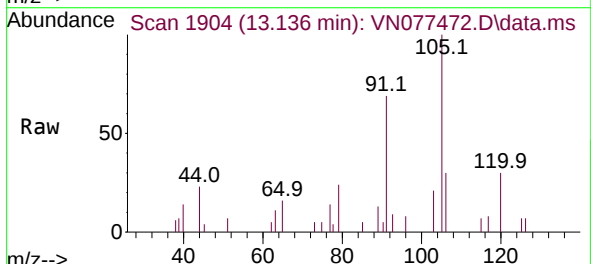
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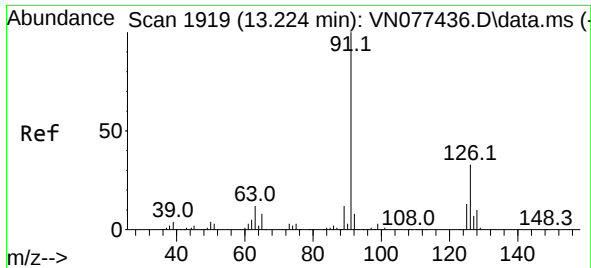
Tgt Ion: 91 Resp: 86964
Ion Ratio Lower Upper
91 100
120 24.4 11.5 34.4



#79
2-Chlorotoluene
Concen: 0.223 ug/l
RT: 13.136 min Scan# 1904
Delta R.T. 0.012 min
Lab File: VN077472.D
Acq: 25 Apr 2023 16:20

Tgt Ion: 91 Resp: 4337
Ion Ratio Lower Upper
91 100
126 18.5 16.3 48.8

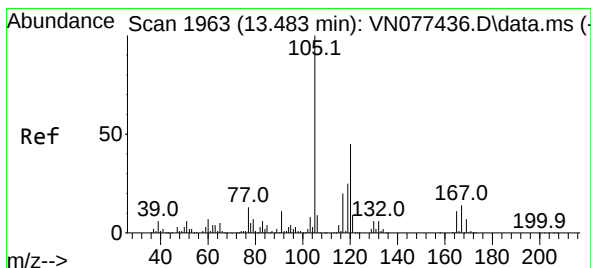
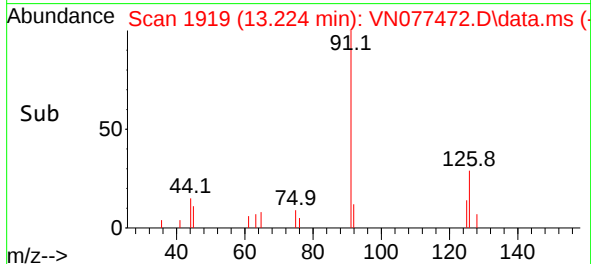
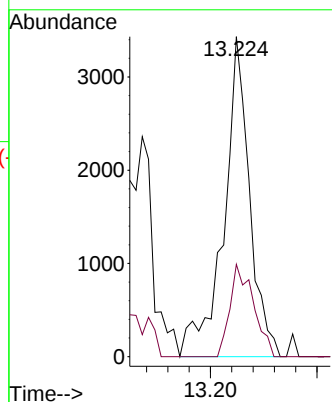
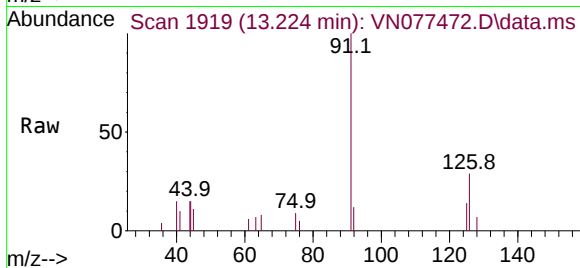




#82
4-Chlorotoluene
Concen: 0.317 ug/l
RT: 13.224 min Scan# 1919
Delta R.T. -0.000 min
Lab File: VN077472.D
Acq: 25 Apr 2023 16:20

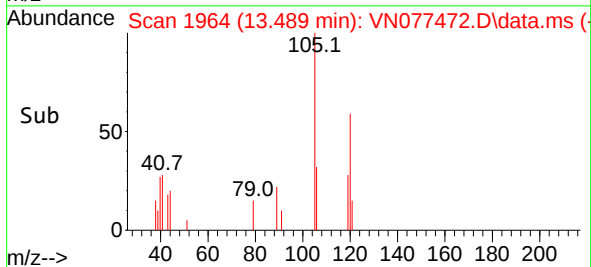
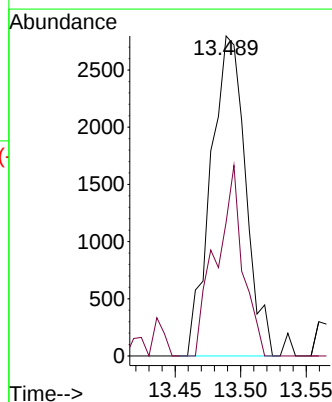
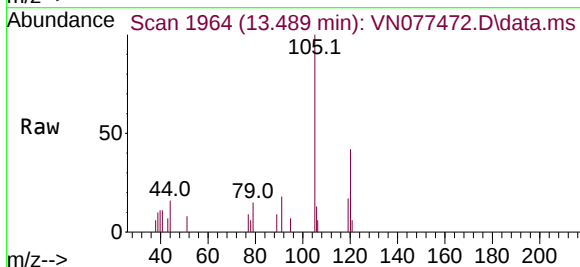
Instrument :
MSVOA_N
ClientSampleId :
MW-1

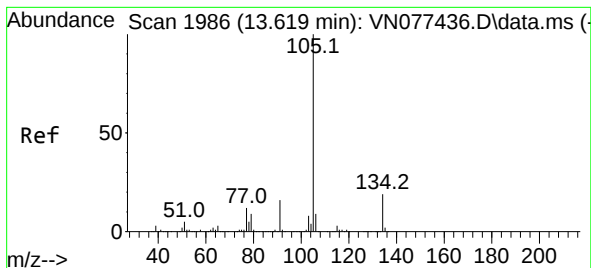
Tgt Ion: 91 Resp: 5761
Ion Ratio Lower Upper
91 100
126 26.4 16.7 50.0



#84
1,2,4-Trimethylbenzene
Concen: 0.261 ug/l
RT: 13.489 min Scan# 1964
Delta R.T. 0.006 min
Lab File: VN077472.D
Acq: 25 Apr 2023 16:20

Tgt Ion: 105 Resp: 5157
Ion Ratio Lower Upper
105 100
120 45.8 22.0 66.0





#85

sec-Butylbenzene

Concen: 0.495 ug/l

RT: 13.618 min Scan# 1986

Delta R.T. -0.000 min

Lab File: VN077472.D

Acq: 25 Apr 2023 16:20

Instrument :

MSVOA_N

ClientSampleId :

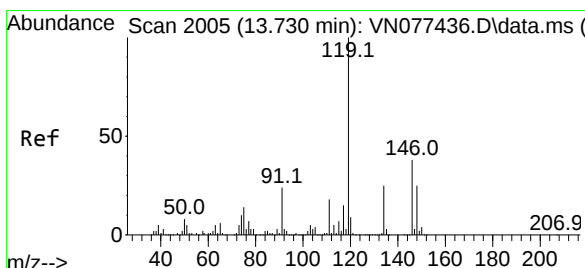
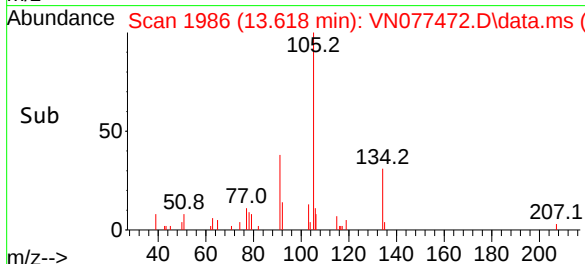
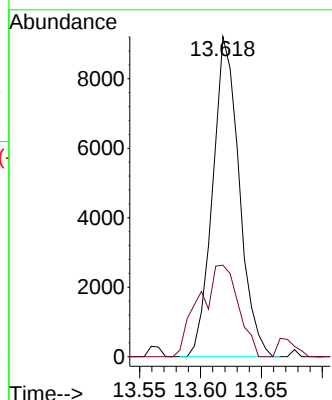
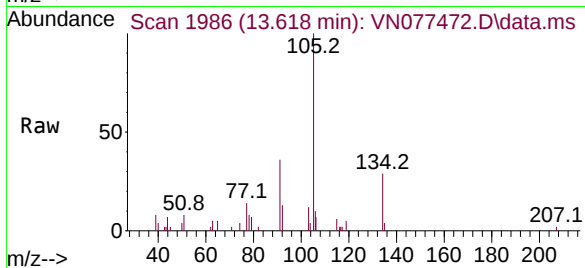
MW-1

Tgt Ion:105 Resp: 13976

Ion Ratio Lower Upper

105 100

134 42.3 9.8 29.3#



#86

p-Isopropyltoluene

Concen: 0.242 ug/l

RT: 13.730 min Scan# 2005

Delta R.T. -0.000 min

Lab File: VN077472.D

Acq: 25 Apr 2023 16:20

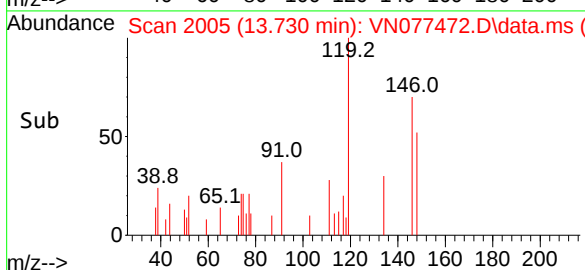
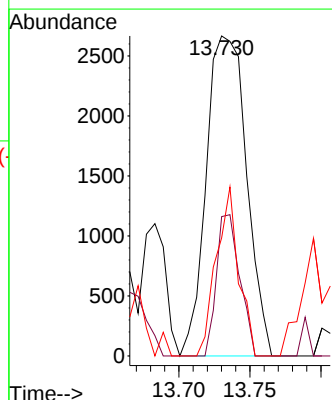
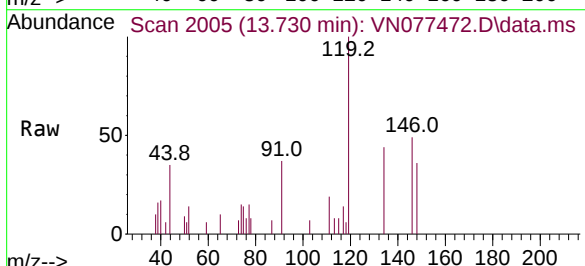
Tgt Ion:119 Resp: 5260

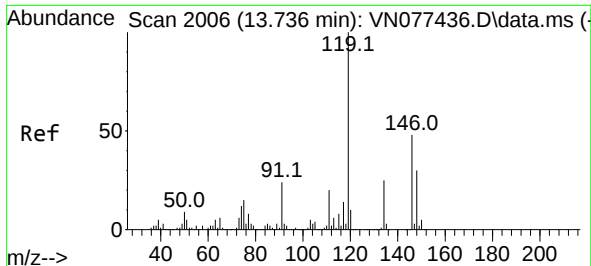
Ion Ratio Lower Upper

119 100

134 25.6 12.6 37.8

91 29.2 12.4 37.2





#87

1,3-Dichlorobenzene

Concen: 0.359 ug/l

RT: 13.748 min Scan# 2006

Delta R.T. 0.012 min

Lab File: VN077472.D

Acq: 25 Apr 2023 16:20

Instrument :

MSVOA_N

ClientSampleId :

MW-1

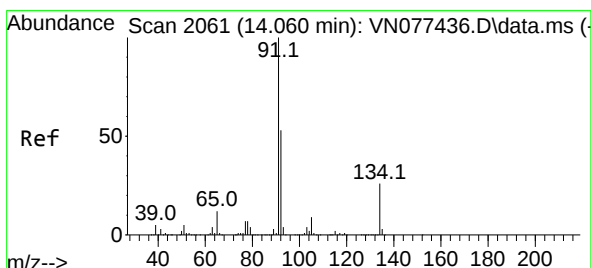
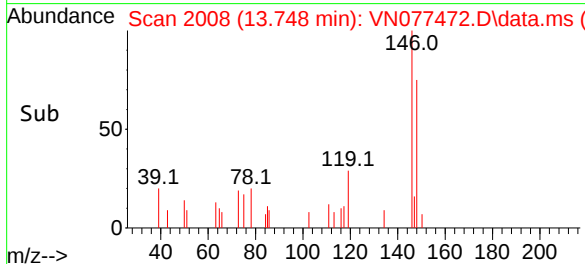
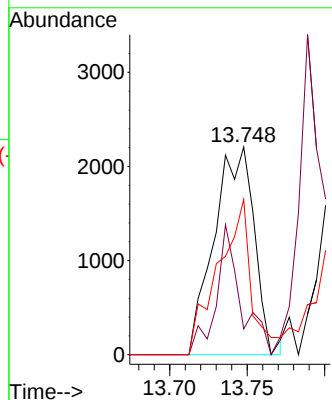
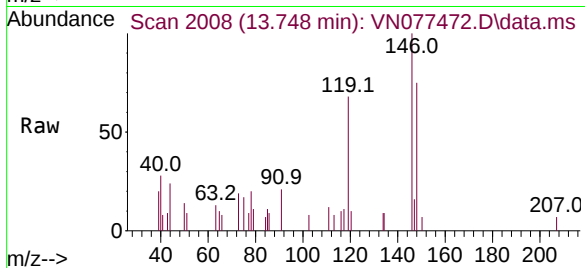
Tgt Ion:146 Resp: 3969

Ion Ratio Lower Upper

146 100

111 38.5 22.1 66.3

148 62.3 32.0 96.0



#89

n-Butylbenzene

Concen: 0.834 ug/l

RT: 14.065 min Scan# 2062

Delta R.T. 0.005 min

Lab File: VN077472.D

Acq: 25 Apr 2023 16:20

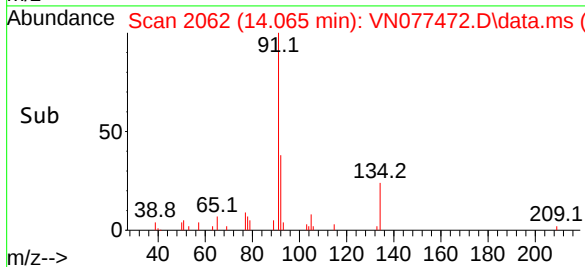
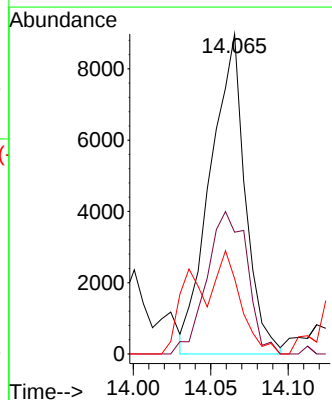
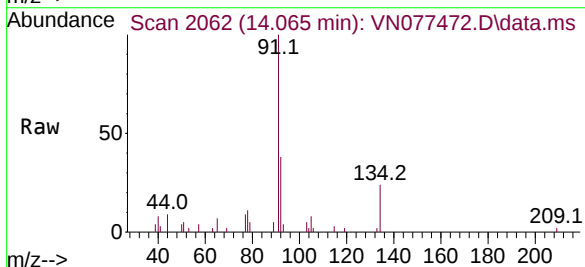
Tgt Ion: 91 Resp: 14022

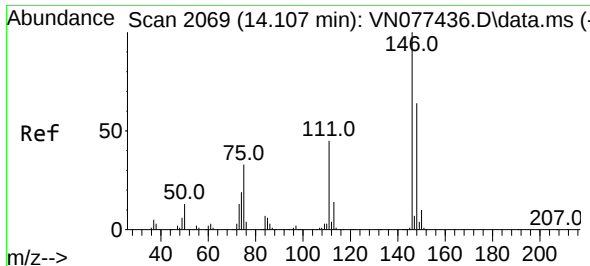
Ion Ratio Lower Upper

91 100

92 51.6 26.4 79.0

134 23.5 12.6 37.6





#91

1,2-Dichlorobenzene

Concen: 0.320 ug/l

RT: 14.112 min Scan# 2069

Delta R.T. 0.006 min

Lab File: VN077472.D

Acq: 25 Apr 2023 16:20

Instrument :

MSVOA_N

ClientSampleId :

MW-1

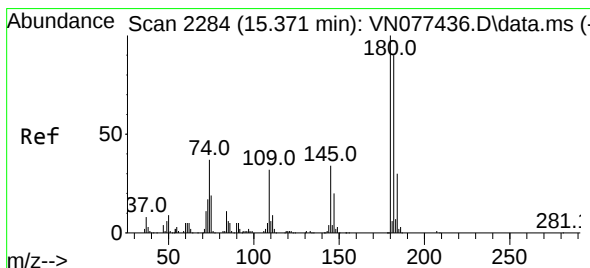
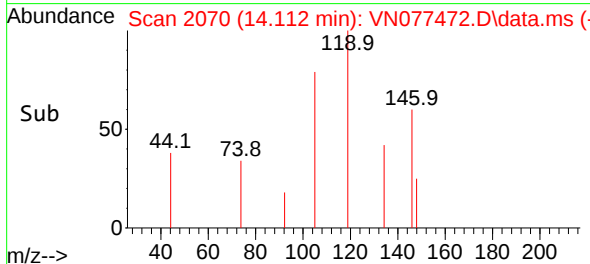
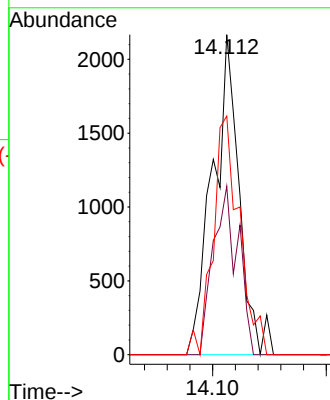
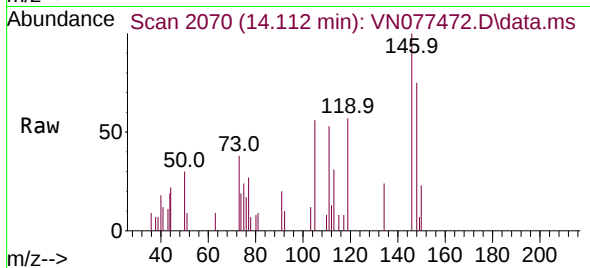
Tgt Ion:146 Resp: 3512

Ion Ratio Lower Upper

146 100

111 49.3 22.0 66.0

148 73.9 31.8 95.3



#93

1,2,4-Trichlorobenzene

Concen: 2.454 ug/l

RT: 15.371 min Scan# 2284

Delta R.T. 0.000 min

Lab File: VN077472.D

Acq: 25 Apr 2023 16:20

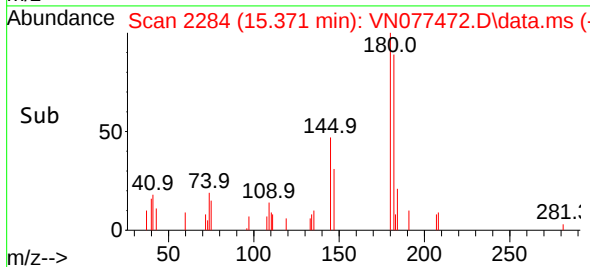
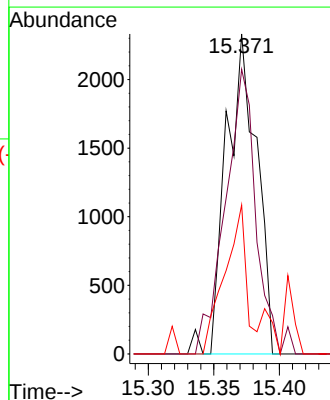
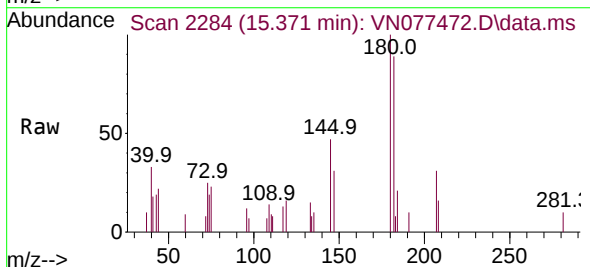
Tgt Ion:180 Resp: 3757

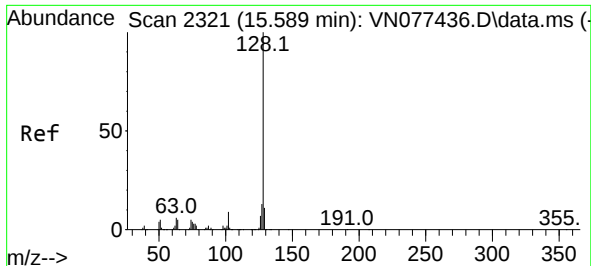
Ion Ratio Lower Upper

180 100

182 90.0 46.1 138.2

145 33.8 16.6 49.8

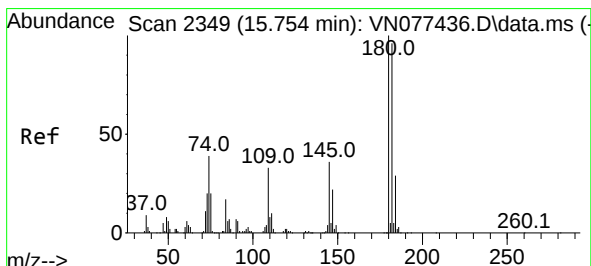
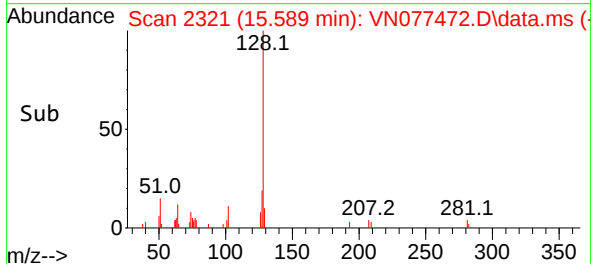
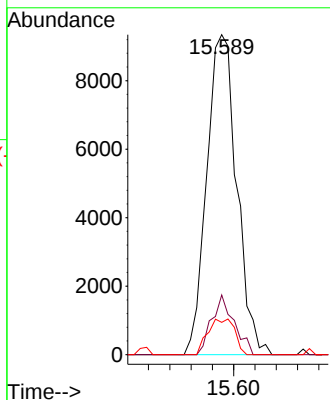
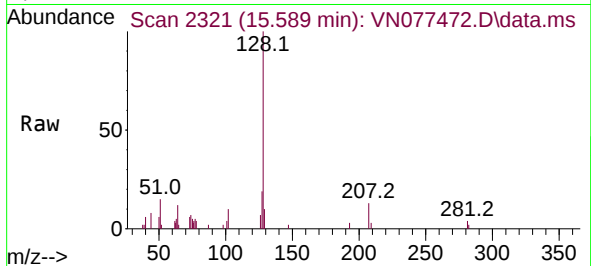




#95
Naphthalene
Concen: 3.301 ug/l
RT: 15.589 min Scan# 2321
Delta R.T. -0.000 min
Lab File: VN077472.D
Acq: 25 Apr 2023 16:20

Instrument :
MSVOA_N
ClientSampleId :
MW-1

Tgt Ion:128	Resp:	18262
Ion Ratio	Lower	Upper
128	100	
127	14.0	10.0 15.0
129	10.0	8.7 13.1



#96
1,2,3-Trichlorobenzene
Concen: 2.341 ug/l
RT: 15.753 min Scan# 2349
Delta R.T. -0.001 min
Lab File: VN077472.D
Acq: 25 Apr 2023 16:20

Tgt Ion:180	Resp:	3875
Ion Ratio	Lower	Upper
180	100	
182	92.9	46.2 138.6
145	46.8	17.5 52.6

