

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM041123\
 Data File : BM039398.D
 Acq On : 11 Apr 2023 17:59
 Operator : CG/JU
 Sample : 02268-01
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 50002-TOTE

Quant Time: Apr 12 01:39:31 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM032923.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Apr 11 16:05:42 2023
 Response via : Initial Calibration

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

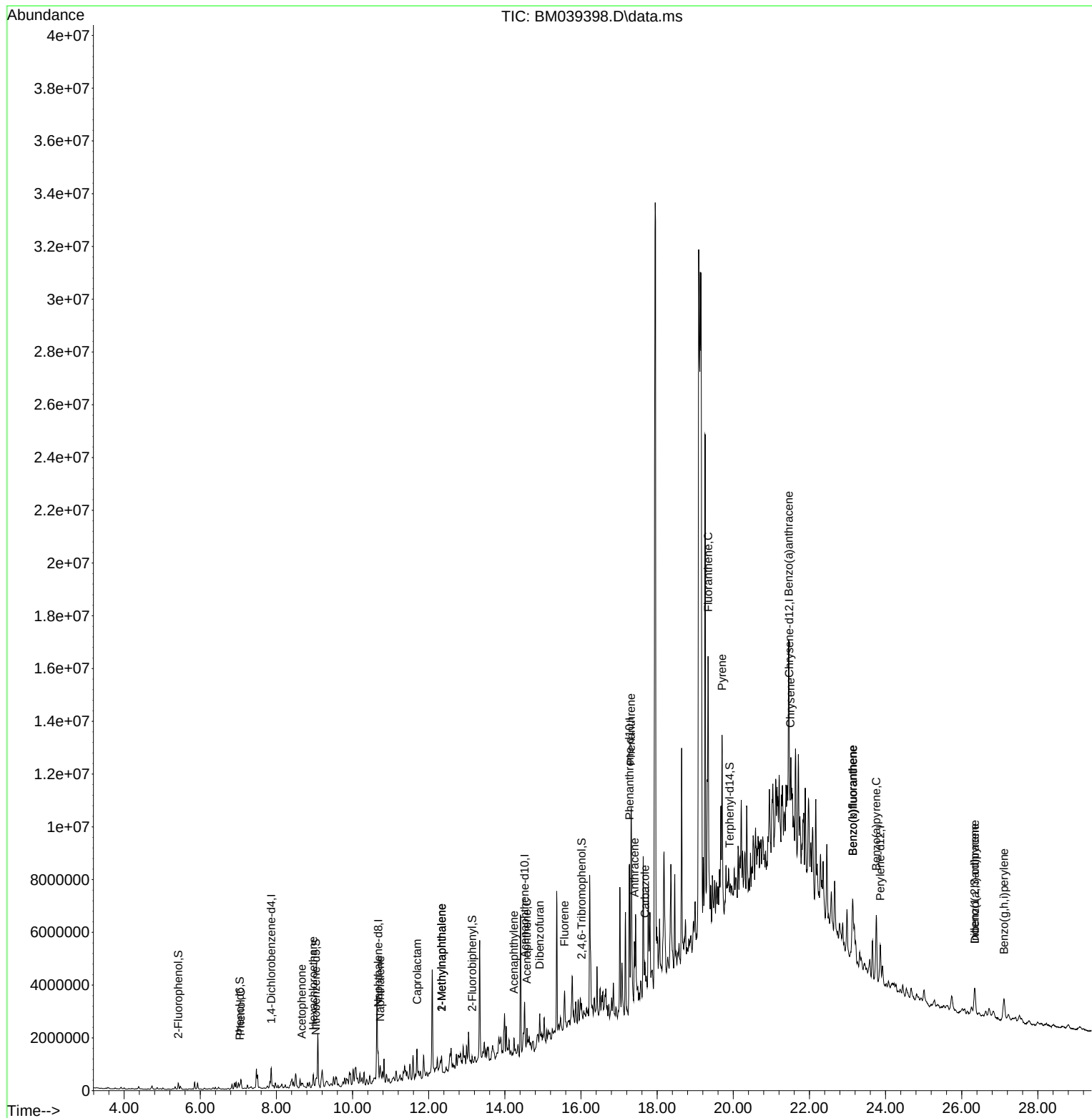
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.863	152	222401	20.000	ng	0.00
21) Naphthalene-d8	10.675	136	900557	20.000	ng	# 0.00
39) Acenaphthene-d10	14.522	164	575227	20.000	ng	0.00
64) Phenanthrene-d10	17.275	188	1144750	20.000	ng	0.00
76) Chrysene-d12	21.468	240	943997	20.000	ng	# 0.00
86) Perylene-d12	23.862	264	1156621	20.000	ng	0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.422	112	113407	7.682	ng	0.00
7) Phenol-d6	7.040	99	117719	6.165	ng	0.00
23) Nitrobenzene-d5	9.034	82	138836	7.493	ng	0.00
42) 2,4,6-Tribromophenol	16.016	330	70090	9.599	ng	0.00
45) 2-Fluorobiphenyl	13.139	172	208964	4.922	ng	0.00
79) Terphenyl-d14	19.904	244	265222	5.191	ng	0.00
Target Compounds						Qvalue
10) Phenol	7.063	94	173941	9.091	ng	99
18) Hexachloroethane	8.969	117	43930	7.010	ng	# 1
22) Acetophenone	8.663	105	118285	4.912	ng	# 60
31) Naphthalene	10.722	128	374071	7.709	ng	96
35) Caprolactam	11.693	113	43368	9.044	ng	# 1
37) 2-Methylnaphthalene	12.340	142	367517	10.879	ng	97
38) 1-Methylnaphthalene	12.340	142	367517	11.619	ng	99
49) Acenaphthylene	14.239	152	415551	7.351	ng	# 93
52) Acenaphthene	14.581	154	274203	8.215	ng	98
55) Dibenzofuran	14.916	168	343724	6.396	ng	# 91
58) Fluorene	15.569	166	612939	14.404	ng	97
71) Phenanthrene	17.316	178	3747586	59.774	ng	100
72) Anthracene	17.404	178	1152753	18.032	ng	98
73) Carbazole	17.680	167	316735	5.302	ng	# 87
75) Fluoranthene	19.339	202	4419887	61.844	ng	96
78) Pyrene	19.704	202	4267184	63.497	ng	# 93
81) Benzo(a)anthracene	21.457	228	1858293	27.912	ng	# 93
83) Chrysene	21.504	228	1796688	27.955	ng	# 96
87) Indeno(1,2,3-cd)pyrene	26.339	276	1083346	12.712	ng	96
88) Benzo(b)fluoranthene	23.139	252	2216858	31.324	ng	# 94
89) Benzo(k)fluoranthene	23.139	252	2216858	30.752	ng	# 94
90) Benzo(a)pyrene	23.756	252	1802200	25.922	ng	# 96
91) Dibenzo(a,h)anthracene	26.344	278	306442	4.282	ng	# 79
92) Benzo(g,h,i)perylene	27.109	276	1100547	15.639	ng	97

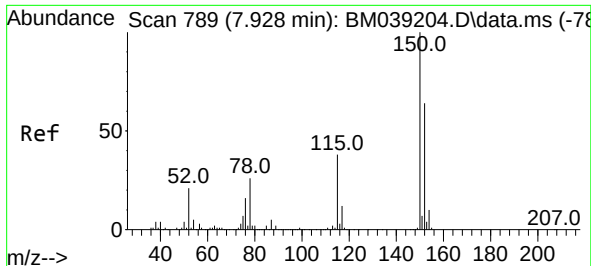
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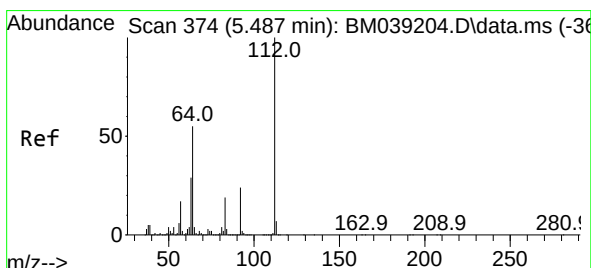
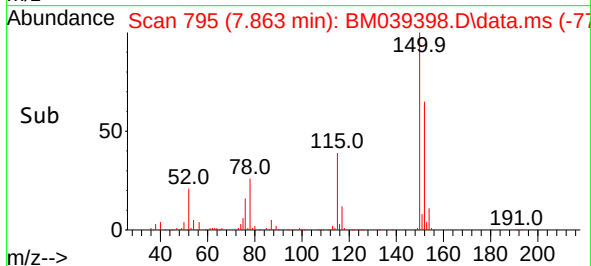
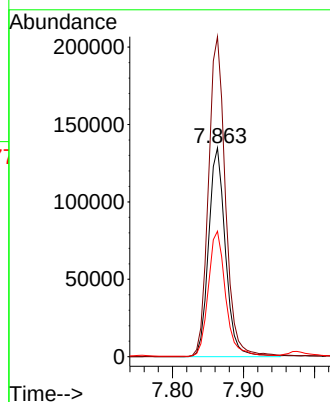
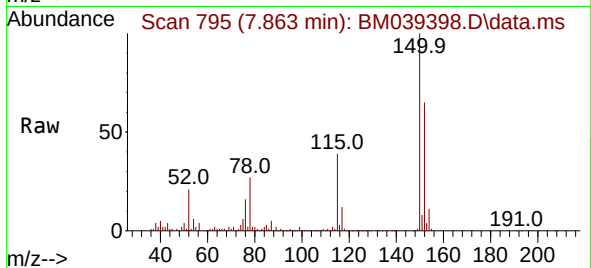




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.863 min Scan# 71
Delta R.T. 0.000 min
Lab File: BM039398.D
Acq: 11 Apr 2023 17:59

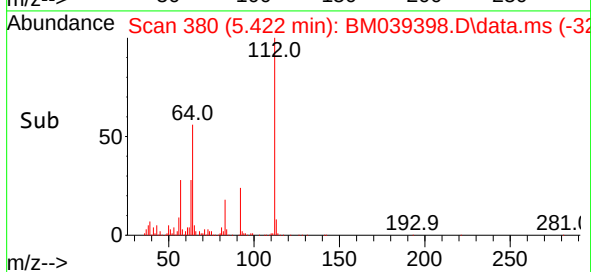
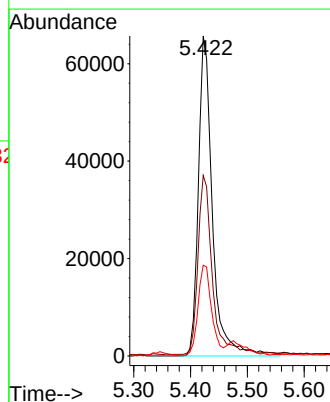
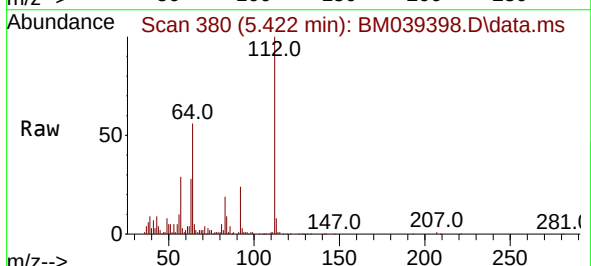
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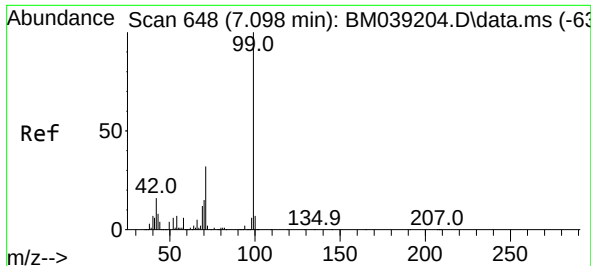
Tgt Ion:152 Resp: 222401
Ion Ratio Lower Upper
152 100
150 153.3 125.5 188.3
115 60.1 48.1 72.1



#5
2-Fluorophenol
Concen: 7.682 ng
RT: 5.422 min Scan# 380
Delta R.T. 0.000 min
Lab File: BM039398.D
Acq: 11 Apr 2023 17:59

Tgt Ion:112 Resp: 113407
Ion Ratio Lower Upper
112 100
64 56.4 44.3 66.5
63 28.4 23.0 34.6

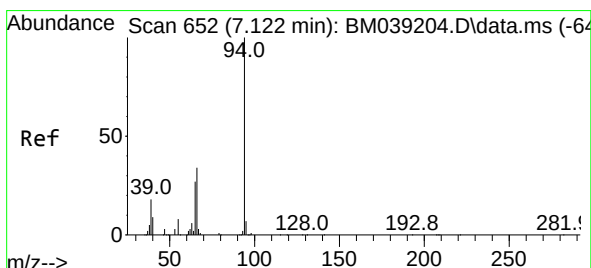
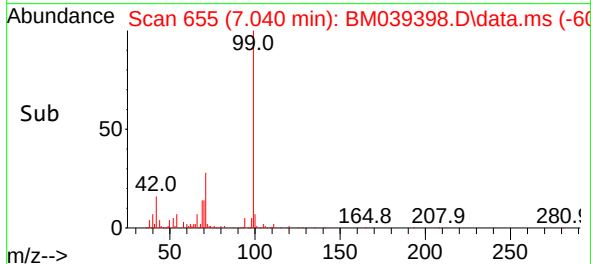
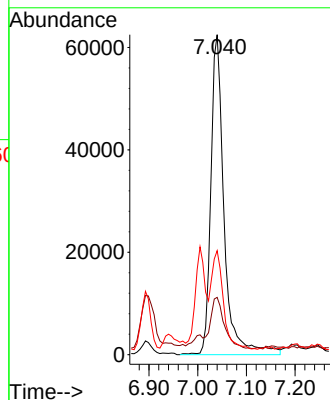
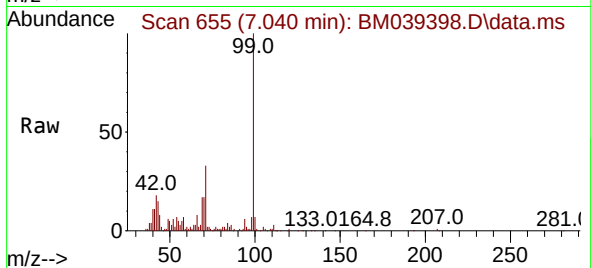




#7
Phenol-d6
Concen: 6.165 ng
RT: 7.040 min Scan# 61
Delta R.T. 0.006 min
Lab File: BM039398.D
Acq: 11 Apr 2023 17:59

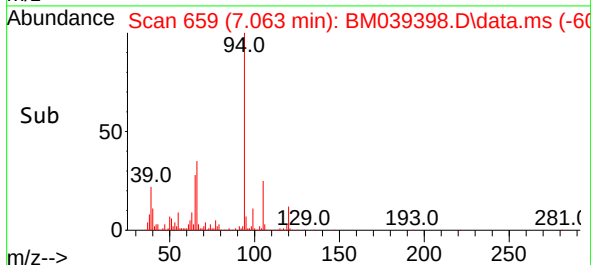
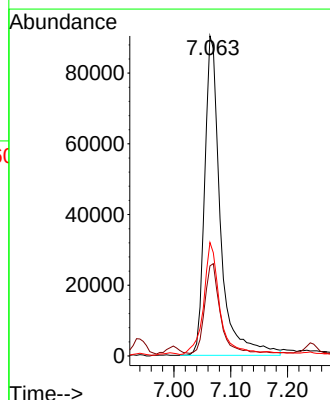
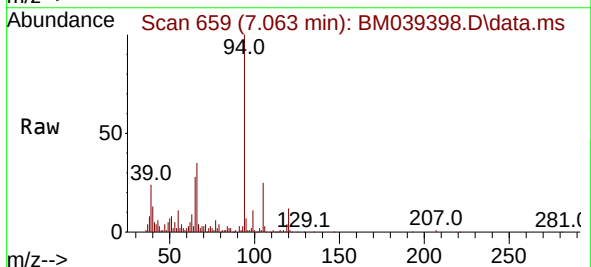
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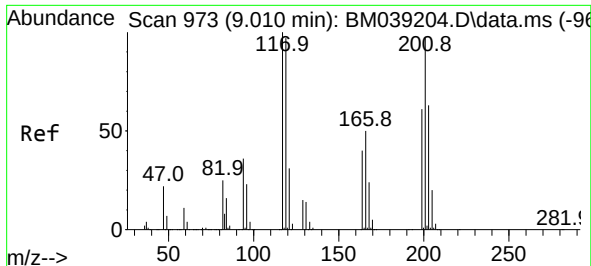
Tgt Ion: 99 Resp: 117719
Ion Ratio Lower Upper
99 100
42 17.9 13.0 19.6
71 32.5 25.5 38.3



#10
Phenol
Concen: 9.091 ng
RT: 7.063 min Scan# 659
Delta R.T. 0.000 min
Lab File: BM039398.D
Acq: 11 Apr 2023 17:59

Tgt Ion: 94 Resp: 173941
Ion Ratio Lower Upper
94 100
65 28.2 7.2 47.2
66 35.4 15.2 55.2

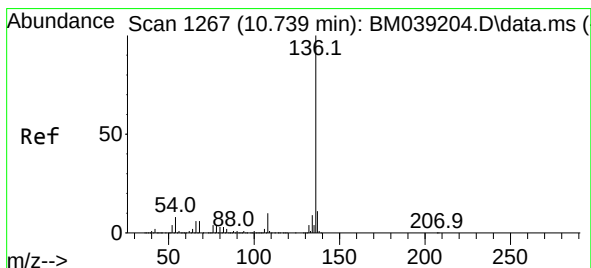
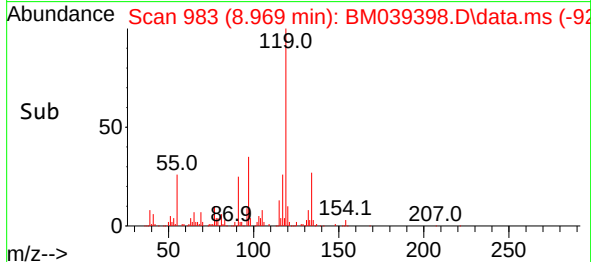
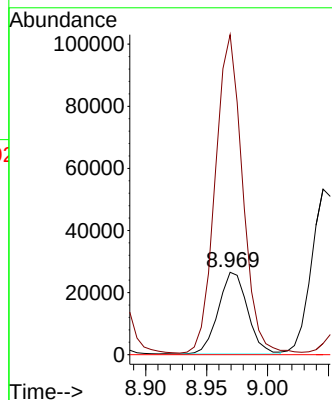
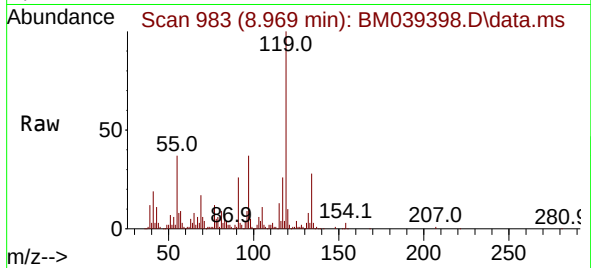




#18
Hexachloroethane
Concen: 7.010 ng
RT: 8.969 min Scan# 91
Delta R.T. 0.030 min
Lab File: BM039398.D
Acq: 11 Apr 2023 17:59

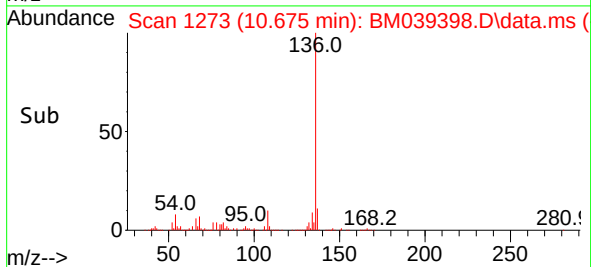
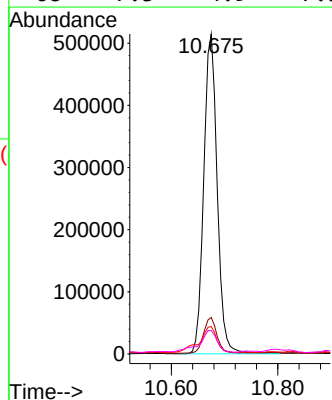
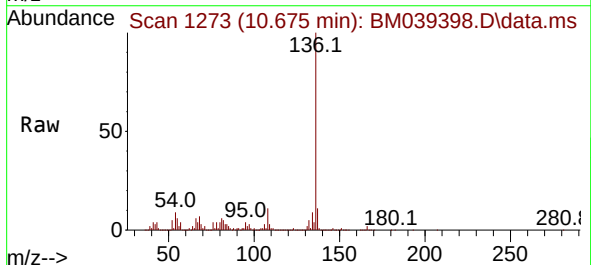
Instrument :
BNA_M
ClientSampleId :
50002-TOTE

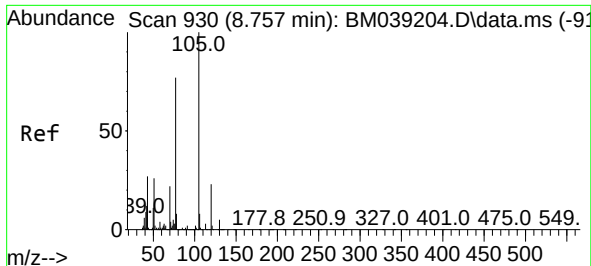
Tgt Ion:117 Resp: 43930
Ion Ratio Lower Upper
117 100
119 388.0 77.8 116.8#
201 0.0 77.3 115.9#



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.675 min Scan# 1273
Delta R.T. 0.000 min
Lab File: BM039398.D
Acq: 11 Apr 2023 17:59

Tgt Ion:136 Resp: 900557
Ion Ratio Lower Upper
136 100
137 11.4 8.9 13.3
54 8.6 6.2 9.4
68 7.3 4.9 7.3#

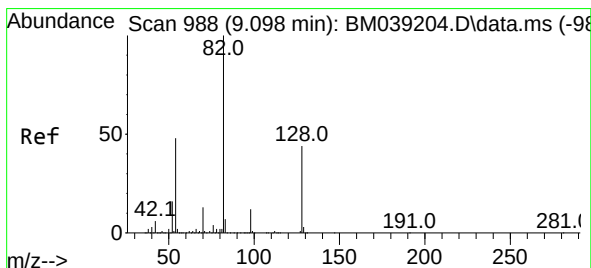
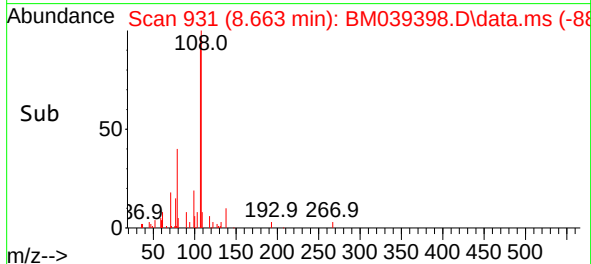
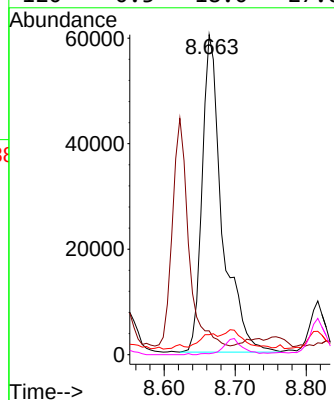
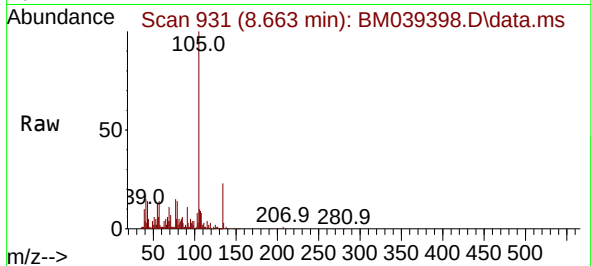




#22
Acetophenone
Concen: 4.912 ng
RT: 8.663 min Scan# 911
Delta R.T. -0.035 min
Lab File: BM039398.D
Acq: 11 Apr 2023 17:59

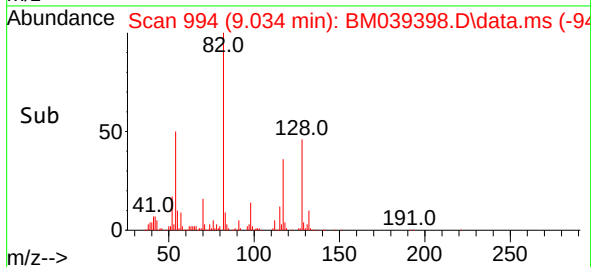
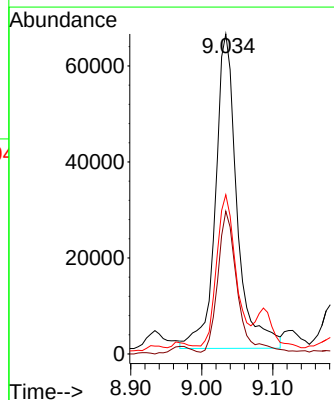
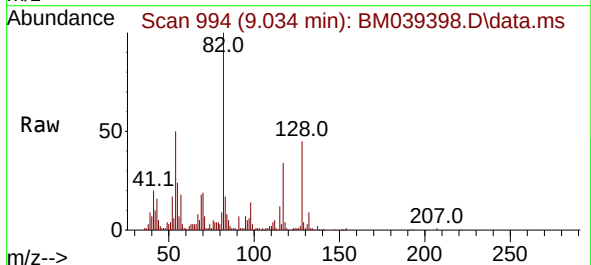
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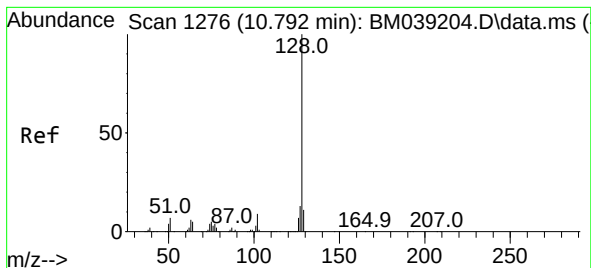
Tgt Ion:105 Resp: 118285
Ion Ratio Lower Upper
105 100
71 7.5 2.8 4.2#
51 6.3 20.6 31.0#
120 0.3 18.0 27.0#



#23
Nitrobenzene-d5
Concen: 7.493 ng
RT: 9.034 min Scan# 994
Delta R.T. 0.000 min
Lab File: BM039398.D
Acq: 11 Apr 2023 17:59

Tgt Ion: 82 Resp: 138836
Ion Ratio Lower Upper
82 100
128 44.6 35.1 52.7
54 49.8 38.5 57.7

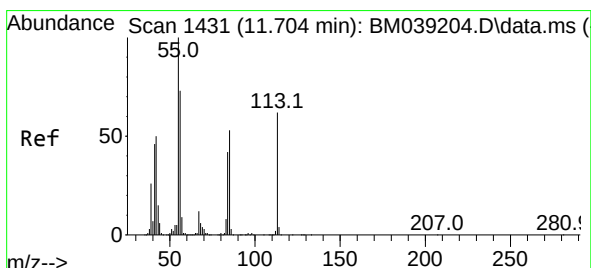
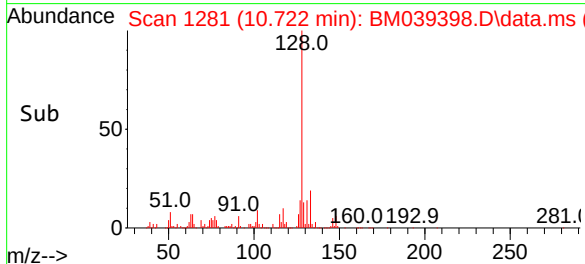
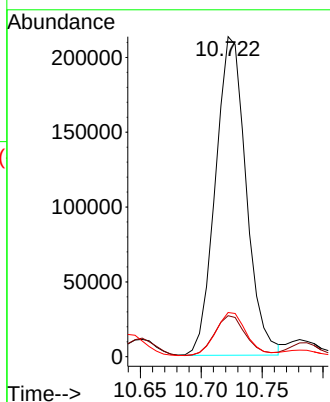
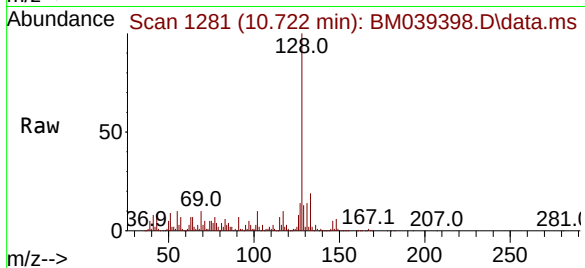




#31
Naphthalene
Concen: 7.709 ng
RT: 10.722 min Scan# 11
Delta R.T. 0.000 min
Lab File: BM039398.D
Acq: 11 Apr 2023 17:59

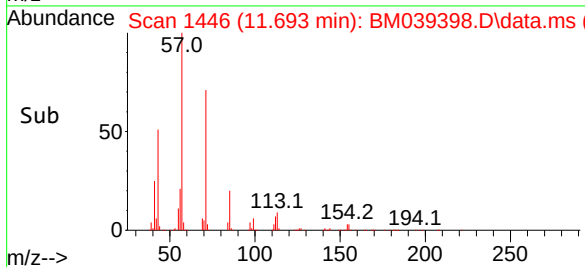
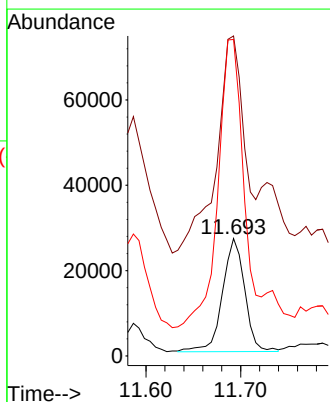
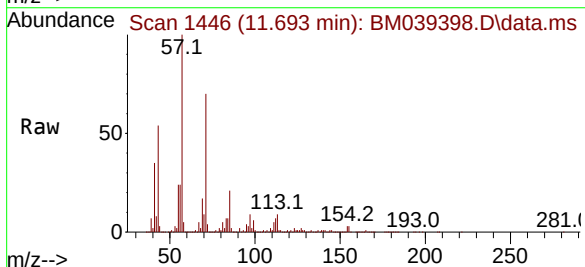
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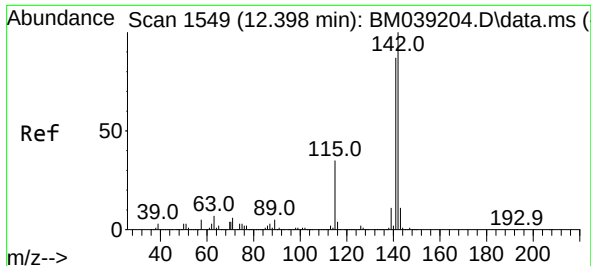
Tgt Ion:128 Resp: 374071
Ion Ratio Lower Upper
128 100
129 12.8 8.6 13.0
127 13.8 10.3 15.5



#35
Caprolactam
Concen: 9.044 ng
RT: 11.693 min Scan# 1446
Delta R.T. 0.042 min
Lab File: BM039398.D
Acq: 11 Apr 2023 17:59

Tgt Ion:113 Resp: 43368
Ion Ratio Lower Upper
113 100
55 272.3 141.8 181.8#
56 269.3 98.3 138.3#

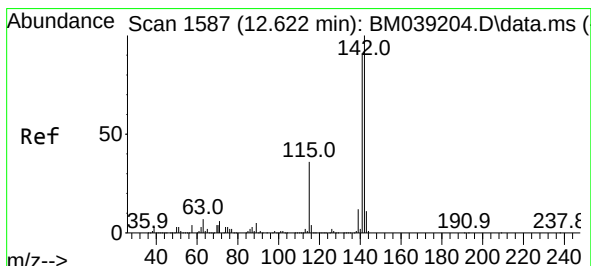
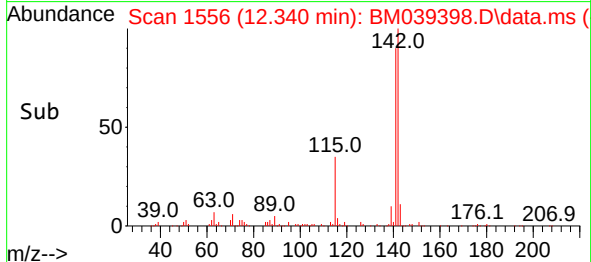
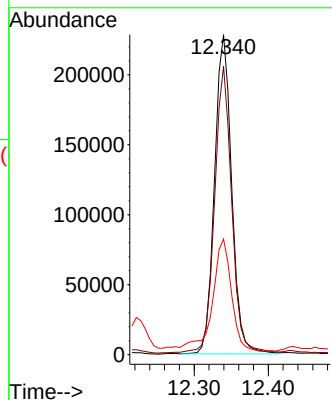
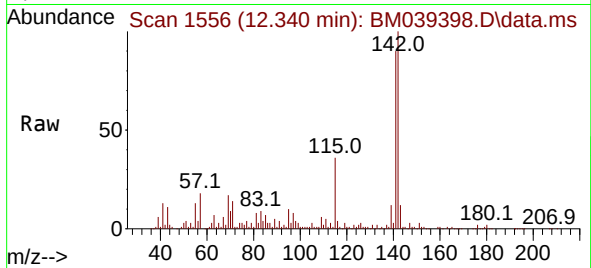




#37
2-Methylnaphthalene
Concen: 10.879 ng
RT: 12.340 min Scan# 1556
Delta R.T. 0.000 min
Lab File: BM039398.D
Acq: 11 Apr 2023 17:59

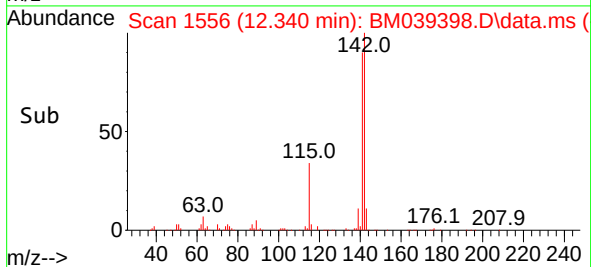
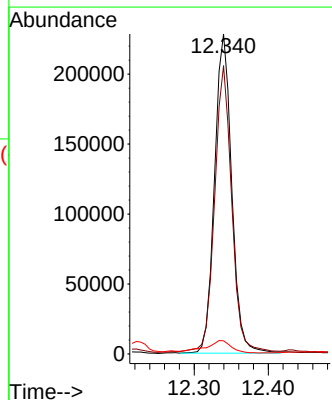
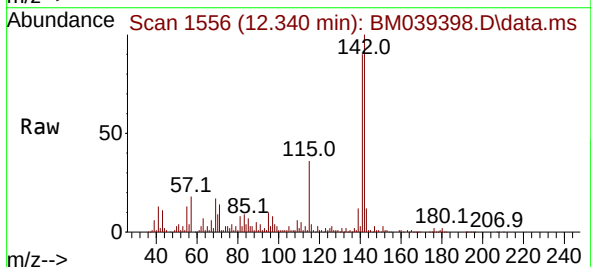
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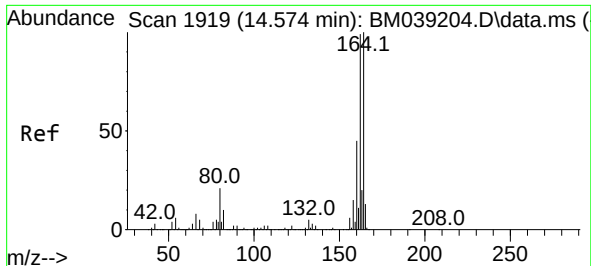
Tgt Ion:142 Resp: 367517
Ion Ratio Lower Upper
142 100
141 90.1 69.8 104.8
115 36.1 27.8 41.8



#38
1-Methylnaphthalene
Concen: 11.619 ng
RT: 12.340 min Scan# 1556
Delta R.T. -0.217 min
Lab File: BM039398.D
Acq: 11 Apr 2023 17:59

Tgt Ion:142 Resp: 367517
Ion Ratio Lower Upper
142 100
141 90.1 73.2 109.8
116 4.1 3.0 4.4

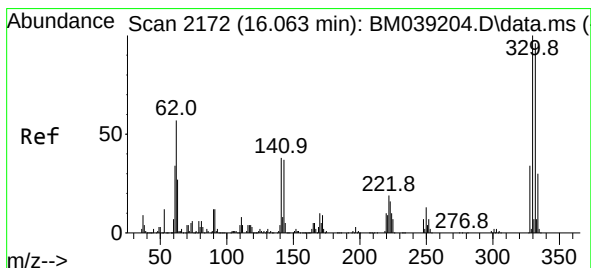
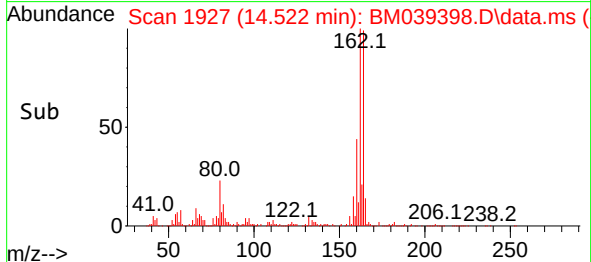
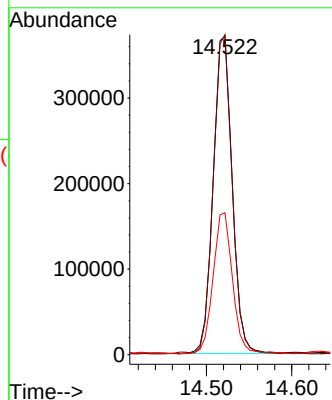
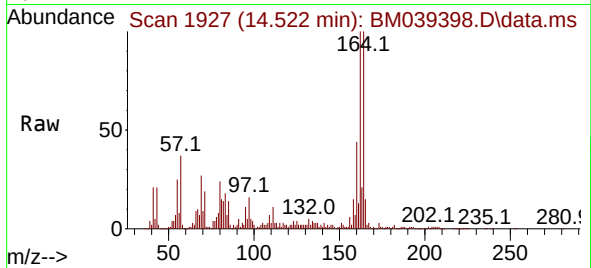




#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.522 min Scan# 1919
Delta R.T. 0.006 min
Lab File: BM039398.D
Acq: 11 Apr 2023 17:59

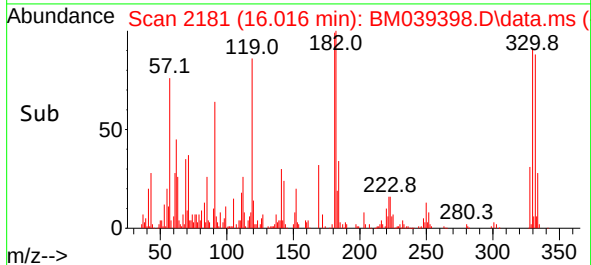
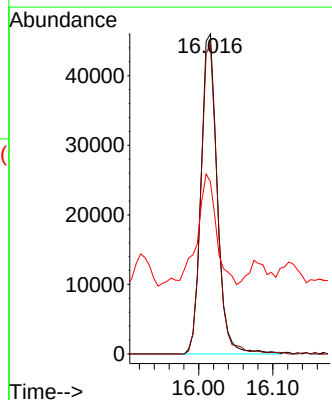
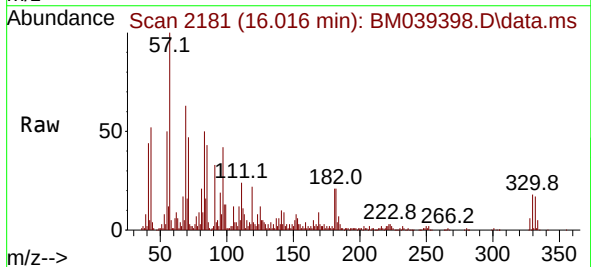
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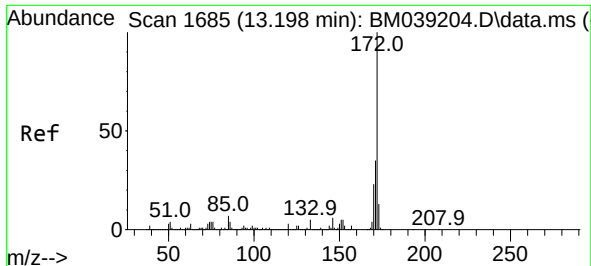
Tgt Ion:164 Resp: 575227
Ion Ratio Lower Upper
164 100
162 100.4 79.1 118.7
160 44.6 35.8 53.8



#42
2,4,6-Tribromophenol
Concen: 9.599 ng
RT: 16.016 min Scan# 2181
Delta R.T. 0.000 min
Lab File: BM039398.D
Acq: 11 Apr 2023 17:59

Tgt Ion:330 Resp: 70090
Ion Ratio Lower Upper
330 100
332 97.7 77.4 116.0
141 42.6 29.8 44.6

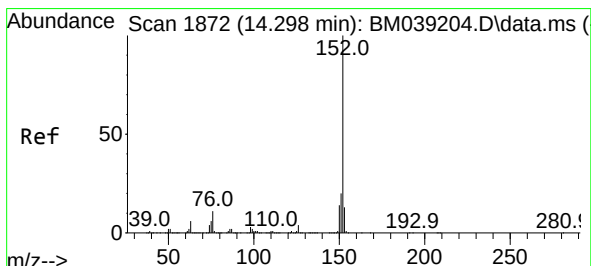
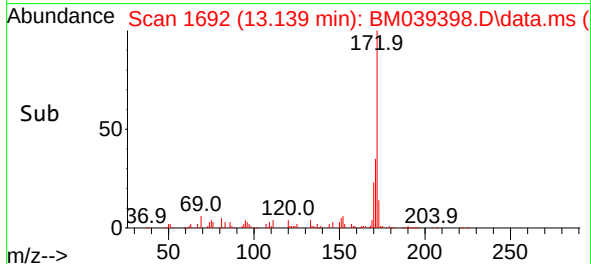
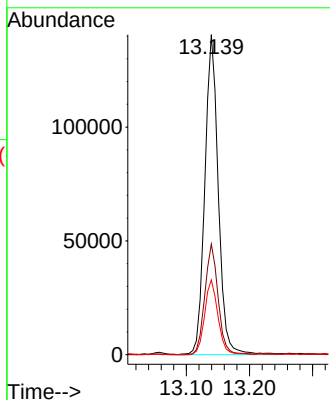
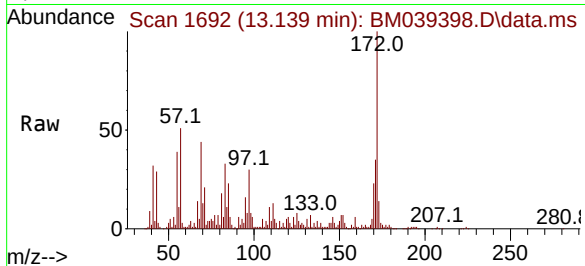




#45
2-Fluorobiphenyl
Concen: 4.922 ng
RT: 13.139 min Scan# 1
Delta R.T. 0.000 min
Lab File: BM039398.D
Acq: 11 Apr 2023 17:59

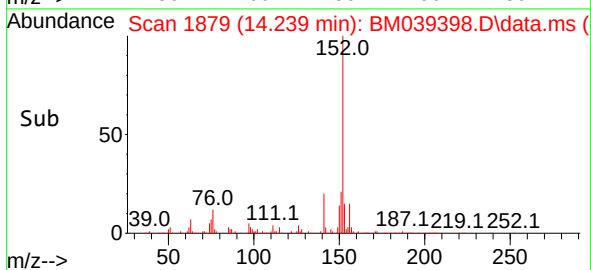
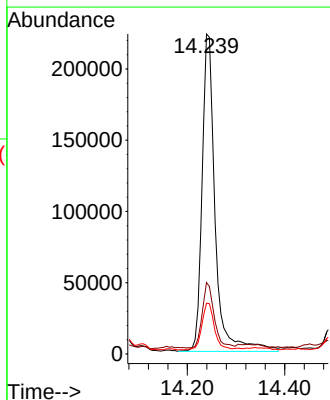
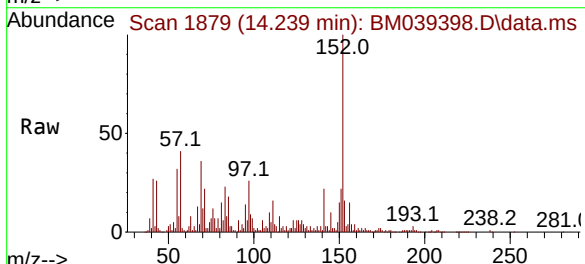
Instrument :
BNA_M
ClientSampleId :
50002-TOTE

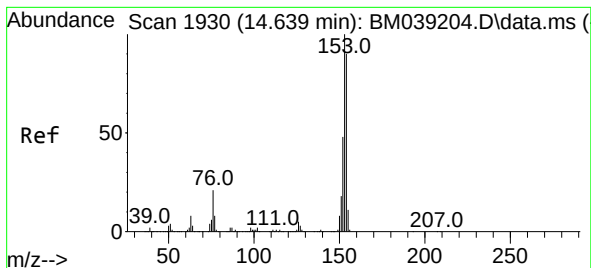
Tgt Ion:172 Resp: 208964
Ion Ratio Lower Upper
172 100
171 34.6 28.0 42.0
170 23.4 18.7 28.1



#49
Acenaphthylene
Concen: 7.351 ng
RT: 14.239 min Scan# 1879
Delta R.T. 0.000 min
Lab File: BM039398.D
Acq: 11 Apr 2023 17:59

Tgt Ion:152 Resp: 415551
Ion Ratio Lower Upper
152 100
151 22.3 15.7 23.5
153 15.8 10.3 15.5#





#52

Acenaphthene

Concen: 8.215 ng

RT: 14.581 min Scan# 1937

Delta R.T. -0.006 min

Lab File: BM039398.D

Acq: 11 Apr 2023 17:59

Instrument :

BNA_M

ClientSampleId :

50002-TOTE

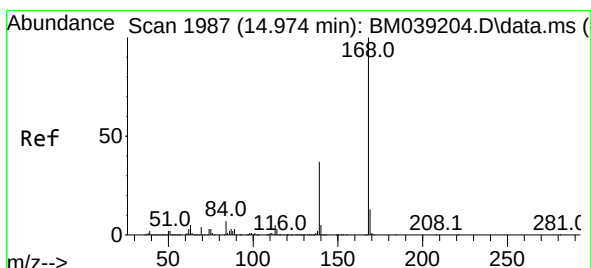
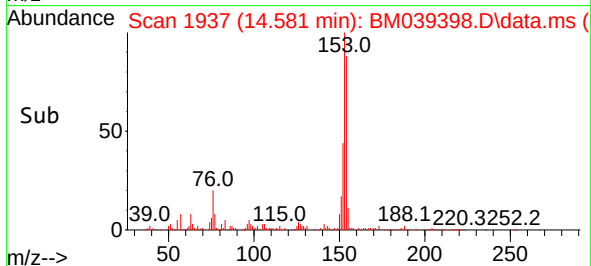
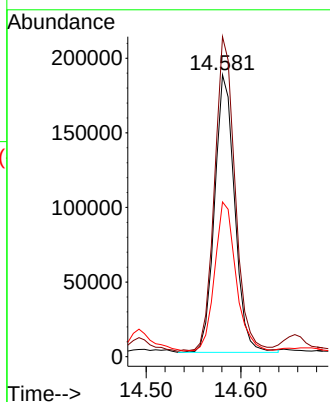
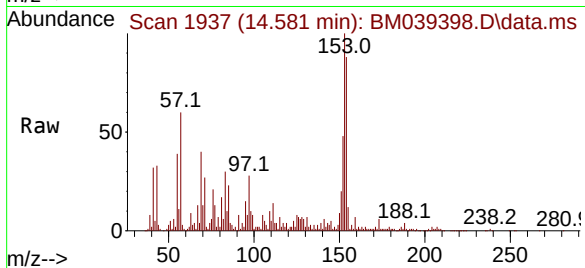
Tgt Ion:154 Resp: 274203

Ion Ratio Lower Upper

154 100

153 113.6 89.1 133.7

152 54.9 42.6 64.0



#55

Dibenzofuran

Concen: 6.396 ng

RT: 14.916 min Scan# 1994

Delta R.T. 0.000 min

Lab File: BM039398.D

Acq: 11 Apr 2023 17:59

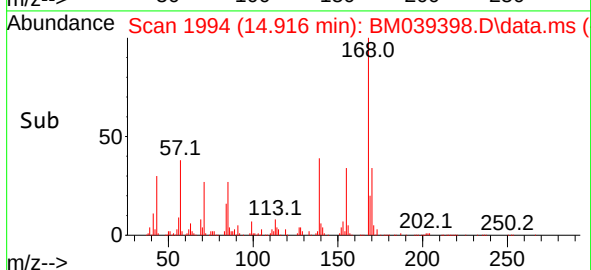
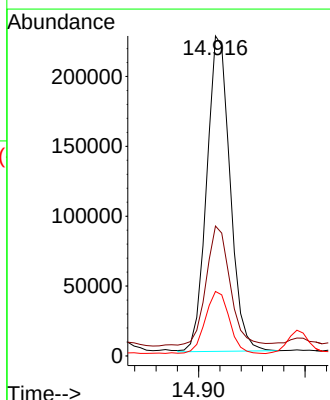
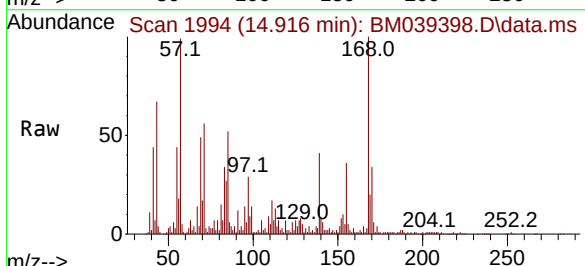
Tgt Ion:168 Resp: 343724

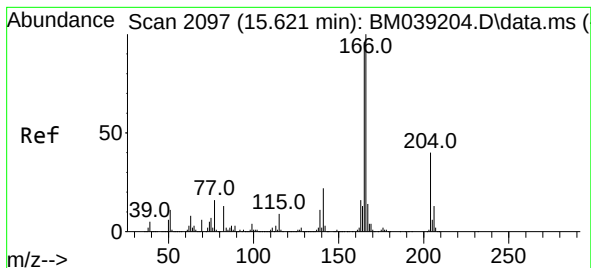
Ion Ratio Lower Upper

168 100

139 40.6 29.4 44.2

169 20.1 10.6 15.8#





#58

Fluorene

Concen: 14.404 ng

RT: 15.569 min Scan# 2105

Delta R.T. 0.000 min

Lab File: BM039398.D

Acq: 11 Apr 2023 17:59

Instrument :

BNA_M

ClientSampleId :

50002-TOTE

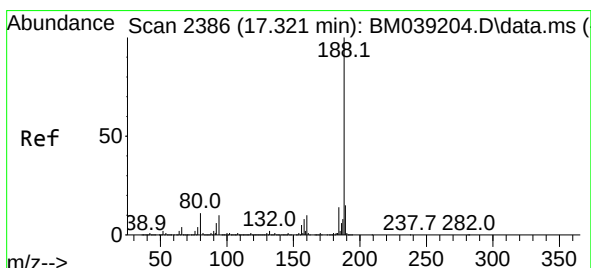
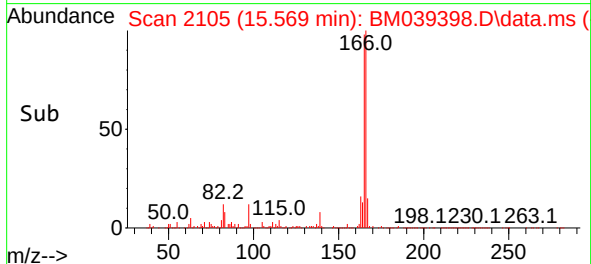
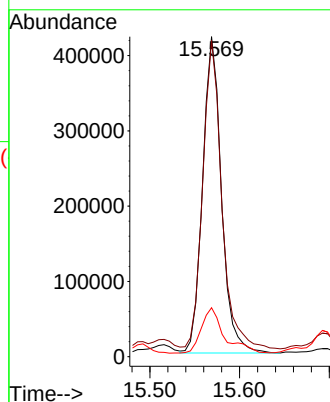
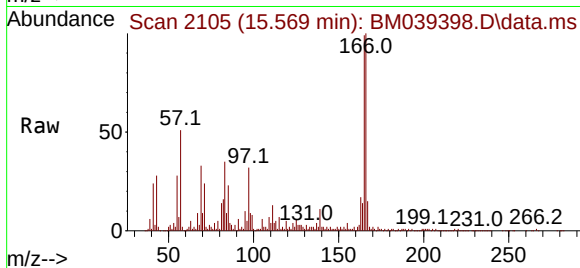
Tgt Ion:166 Resp: 612939

Ion Ratio Lower Upper

166 100

165 98.8 76.9 115.3

167 15.3 10.8 16.2



#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 17.275 min Scan# 2395

Delta R.T. 0.006 min

Lab File: BM039398.D

Acq: 11 Apr 2023 17:59

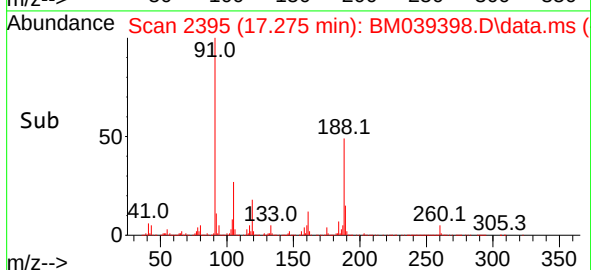
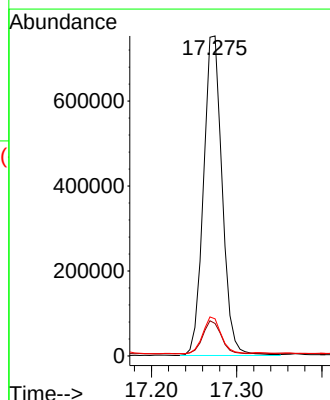
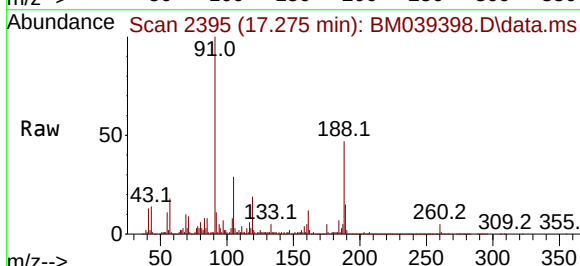
Tgt Ion:188 Resp: 1144750

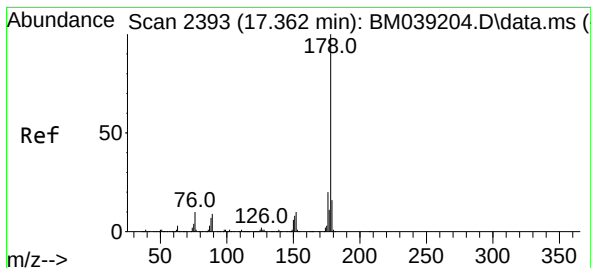
Ion Ratio Lower Upper

188 100

94 10.1 8.2 12.4

80 11.6 8.9 13.3





#71

Phenanthrene

Concen: 59.774 ng

RT: 17.316 min Scan# 2417

Delta R.T. 0.006 min

Lab File: BM039398.D

Acq: 11 Apr 2023 17:59

Instrument :

BNA_M

ClientSampleId :

50002-TOTE

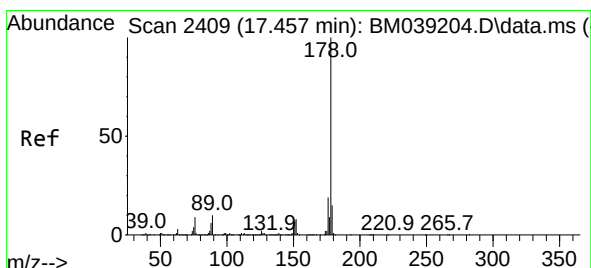
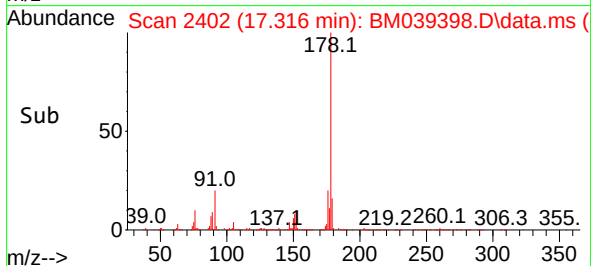
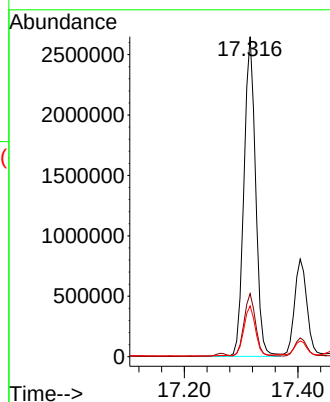
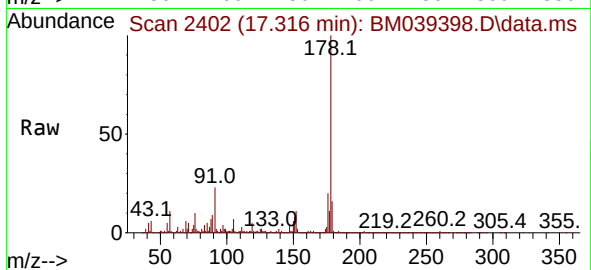
Tgt Ion:178 Resp: 3747586

Ion Ratio Lower Upper

178 100

176 19.7 15.7 23.5

179 15.9 12.4 18.6



#72

Anthracene

Concen: 18.032 ng

RT: 17.404 min Scan# 2417

Delta R.T. 0.000 min

Lab File: BM039398.D

Acq: 11 Apr 2023 17:59

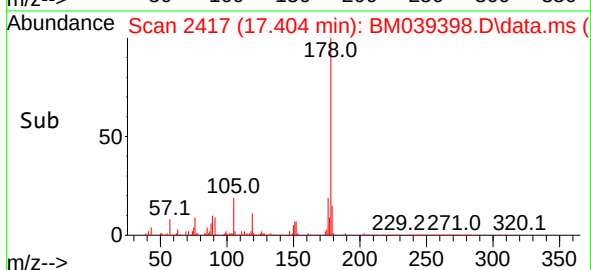
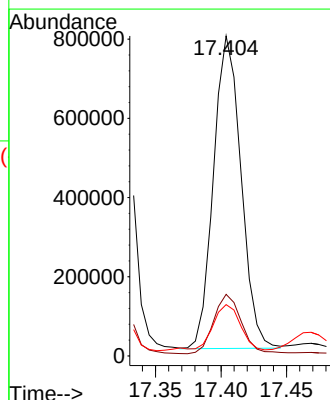
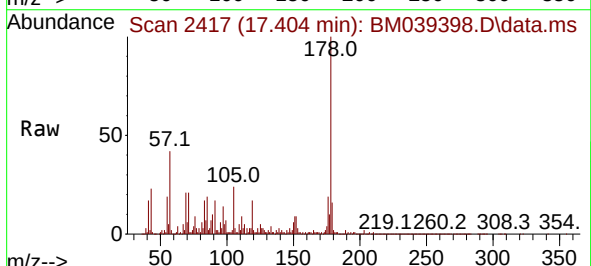
Tgt Ion:178 Resp: 1152753

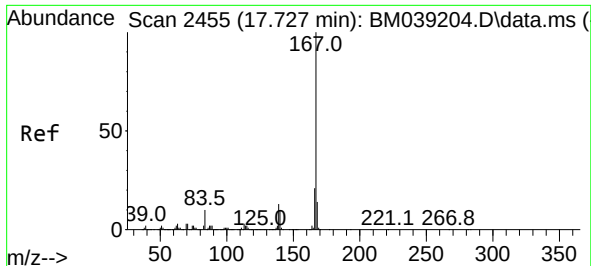
Ion Ratio Lower Upper

178 100

176 19.3 14.9 22.3

179 16.1 12.2 18.2

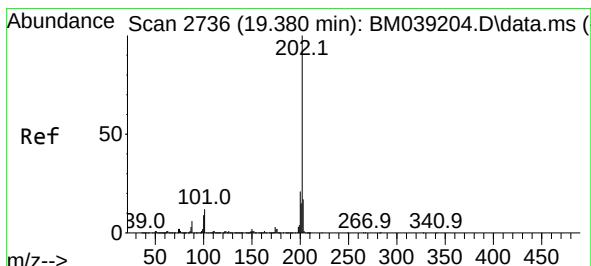
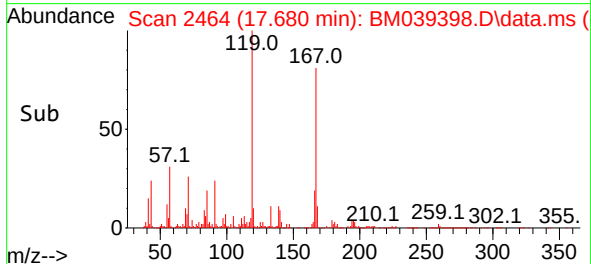
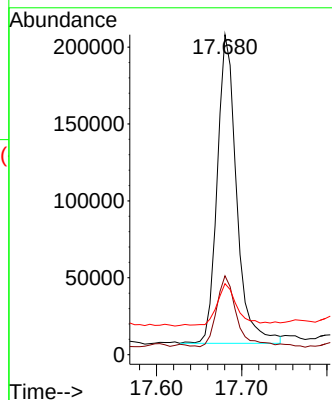
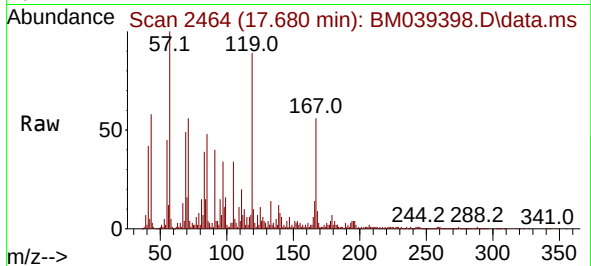




#73
 Carbazole
 Concen: 5.302 ng
 RT: 17.680 min Scan# 2455
 Delta R.T. 0.000 min
 Lab File: BM039398.D
 Acq: 11 Apr 2023 17:59

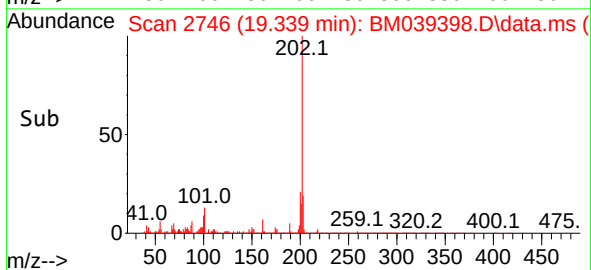
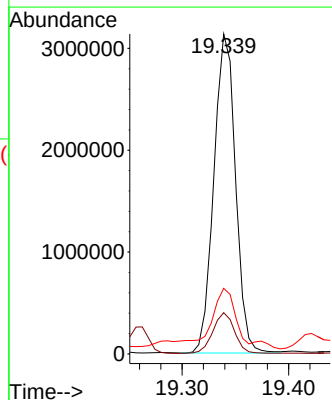
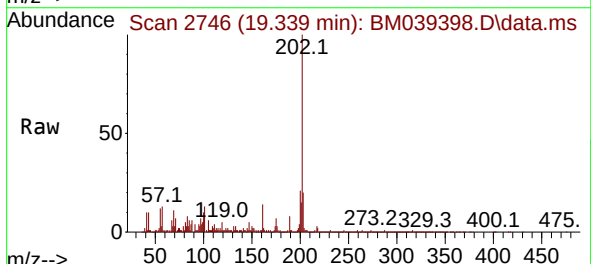
Instrument :
 BNA_M
 ClientSampleId :
 50002-TOTE

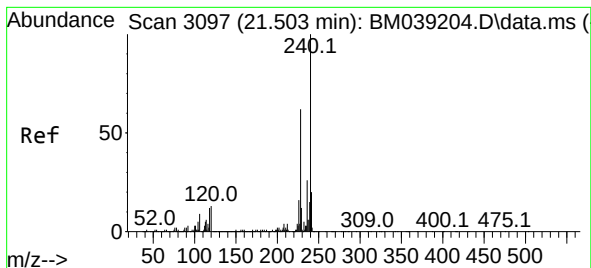
Tgt Ion:167 Resp: 316735
 Ion Ratio Lower Upper
 167 100
 166 24.7 17.2 25.8
 139 22.2 10.6 16.0#



#75
 Fluoranthene
 Concen: 61.844 ng
 RT: 19.339 min Scan# 2746
 Delta R.T. 0.006 min
 Lab File: BM039398.D
 Acq: 11 Apr 2023 17:59

Tgt Ion:202 Resp: 4419887
 Ion Ratio Lower Upper
 202 100
 101 12.9 0.0 32.5
 203 20.5 0.0 37.5





#76

Chrysene-d12

Concen: 20.000 ng

RT: 21.468 min Scan# 31

Delta R.T. 0.006 min

Lab File: BM039398.D

Acq: 11 Apr 2023 17:59

Instrument :

BNA_M

ClientSampleId :

50002-TOTE

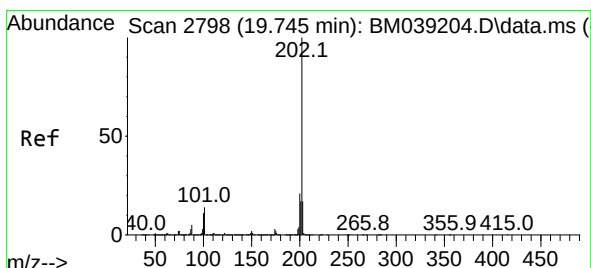
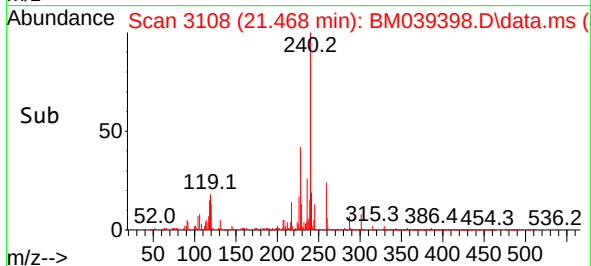
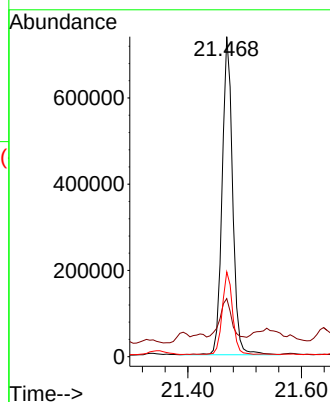
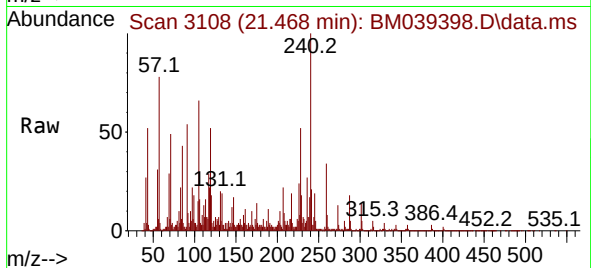
Tgt Ion:240 Resp: 943997

Ion Ratio Lower Upper

240 100

120 18.1 10.2 15.2#

236 26.5 20.9 31.3



#78

Pyrene

Concen: 63.497 ng

RT: 19.704 min Scan# 2808

Delta R.T. 0.006 min

Lab File: BM039398.D

Acq: 11 Apr 2023 17:59

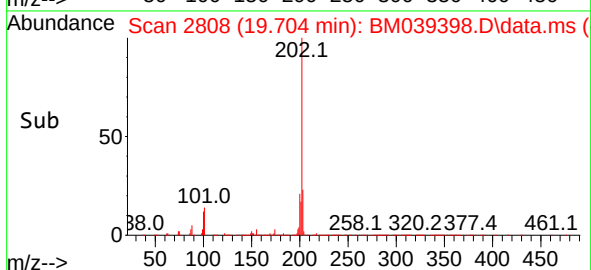
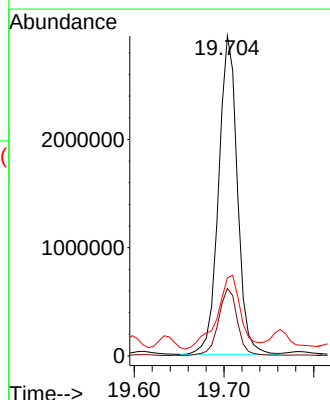
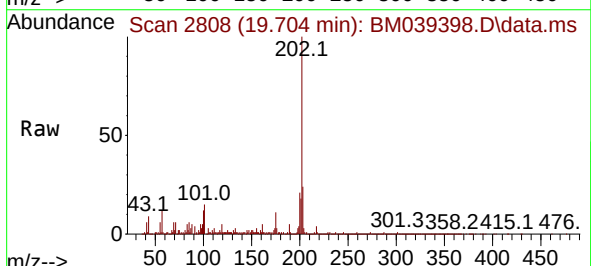
Tgt Ion:202 Resp: 4267184

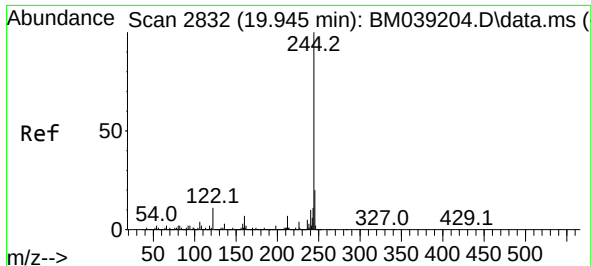
Ion Ratio Lower Upper

202 100

200 21.1 17.1 25.7

203 24.3 13.9 20.9#

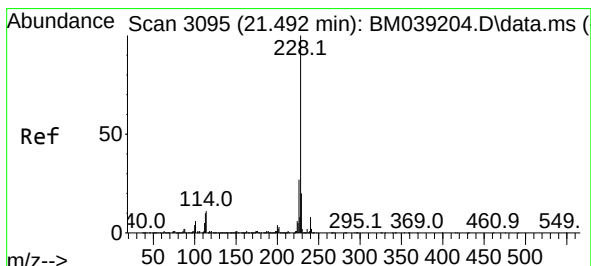
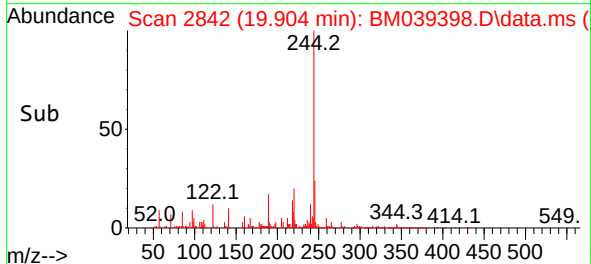
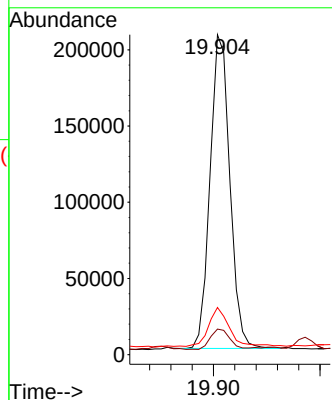
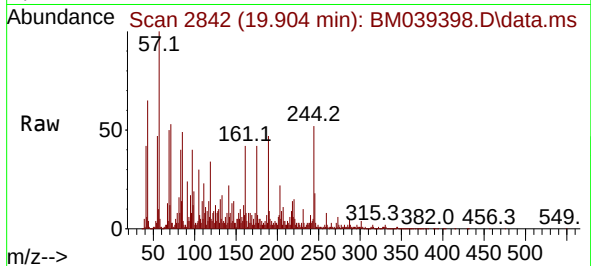




#79
 Terphenyl-d14
 Concen: 5.191 ng
 RT: 19.904 min Scan# 21
 Delta R.T. 0.006 min
 Lab File: BM039398.D
 Acq: 11 Apr 2023 17:59

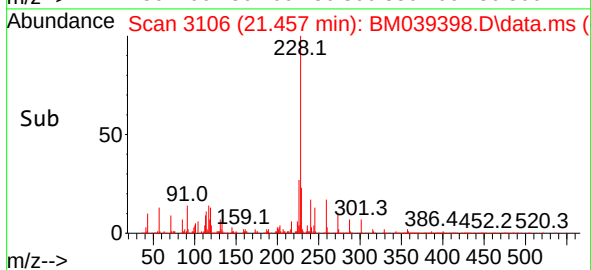
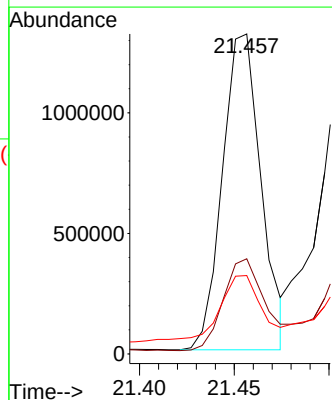
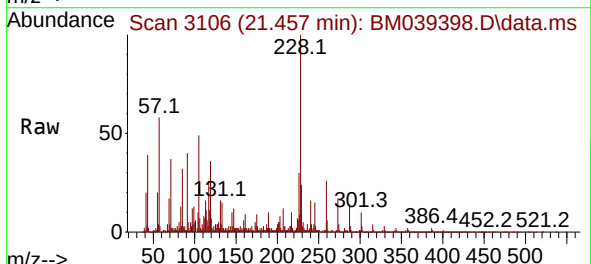
Instrument :
 BNA_M
 ClientSampleId :
 50002-TOTE

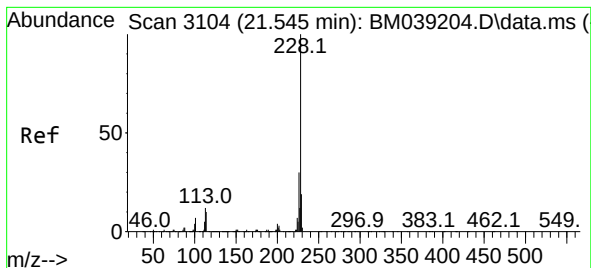
Tgt Ion:244 Resp: 265222
 Ion Ratio Lower Upper
 244 100
 212 8.0 5.6 8.4
 122 14.7 9.1 13.7#



#81
 Benzo(a)anthracene
 Concen: 27.912 ng
 RT: 21.457 min Scan# 3106
 Delta R.T. 0.012 min
 Lab File: BM039398.D
 Acq: 11 Apr 2023 17:59

Tgt Ion:228 Resp: 1858293
 Ion Ratio Lower Upper
 228 100
 226 29.7 21.9 32.9
 229 24.5 15.8 23.6#





#83

Chrysene

Concen: 27.955 ng

RT: 21.504 min Scan# 31

Delta R.T. 0.000 min

Lab File: BM039398.D

Acq: 11 Apr 2023 17:59

Instrument :

BNA_M

ClientSampleId :

50002-TOTE

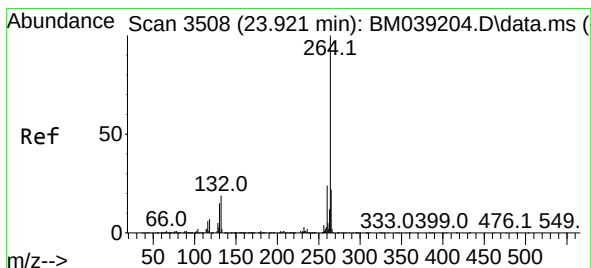
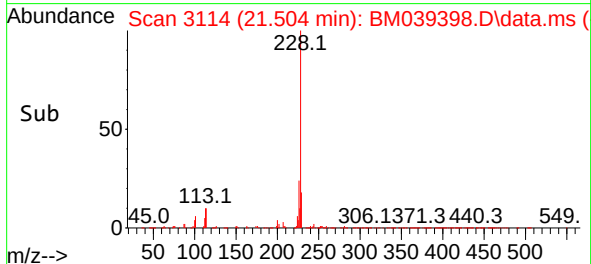
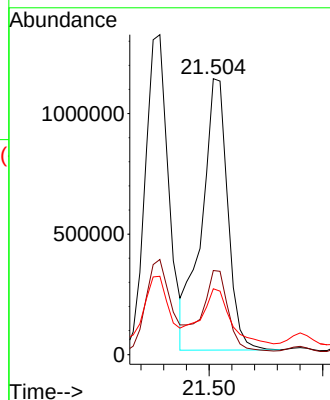
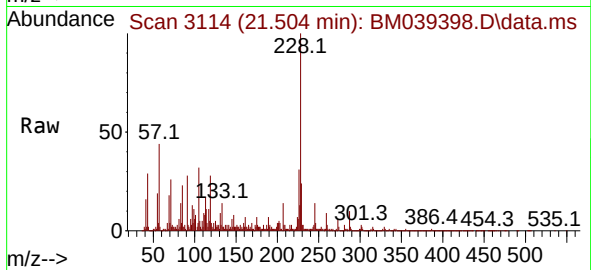
Tgt Ion:228 Resp: 1796688

Ion Ratio Lower Upper

228 100

226 30.5 24.1 36.1

229 23.9 15.5 23.3#



#86

Perylene-d12

Concen: 20.000 ng

RT: 23.862 min Scan# 3515

Delta R.T. 0.012 min

Lab File: BM039398.D

Acq: 11 Apr 2023 17:59

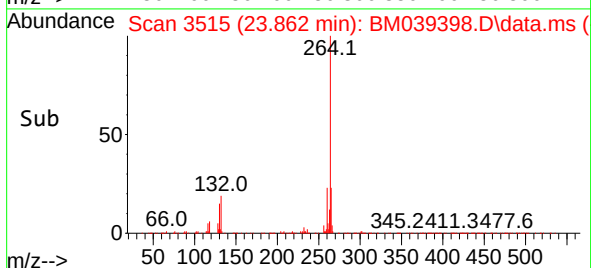
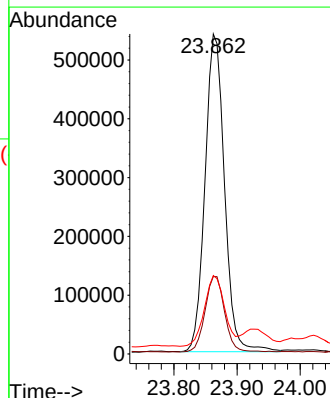
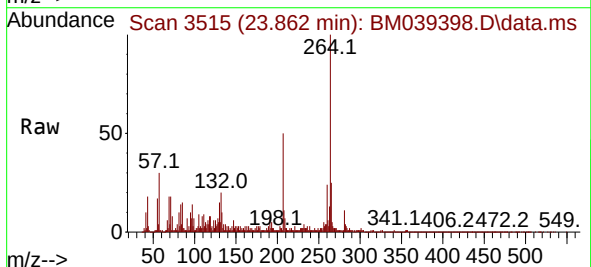
Tgt Ion:264 Resp: 1156621

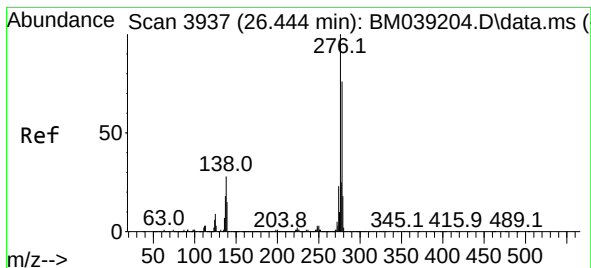
Ion Ratio Lower Upper

264 100

260 24.2 19.0 28.6

265 24.5 18.1 27.1





#87

Indeno(1,2,3-cd)pyrene

Concen: 12.712 ng

RT: 26.339 min Scan# 3936

Delta R.T. 0.000 min

Lab File: BM039398.D

Acq: 11 Apr 2023 17:59

Instrument :

BNA_M

ClientSampleId :

50002-TOTE

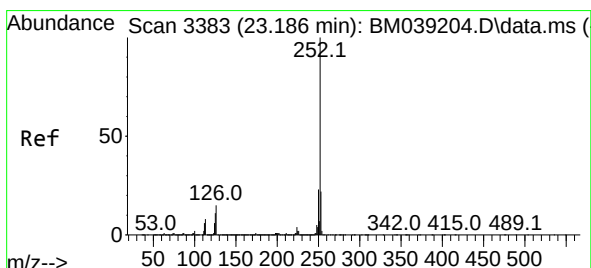
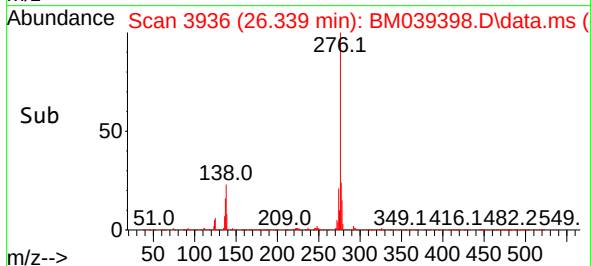
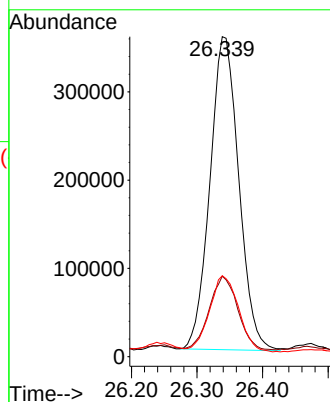
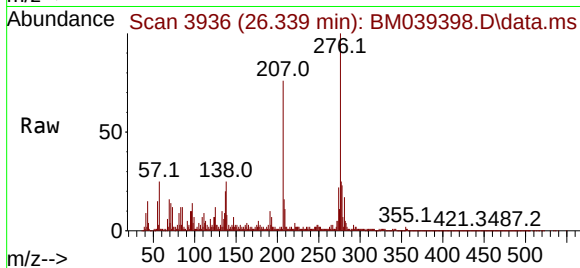
Tgt Ion:276 Resp: 1083346

Ion Ratio Lower Upper

276 100

138 23.9 22.2 33.2

277 24.7 20.2 30.2



#88

Benzo(b)fluoranthene

Concen: 31.324 ng

RT: 23.139 min Scan# 3392

Delta R.T. 0.012 min

Lab File: BM039398.D

Acq: 11 Apr 2023 17:59

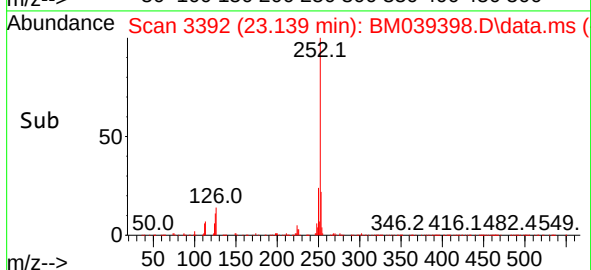
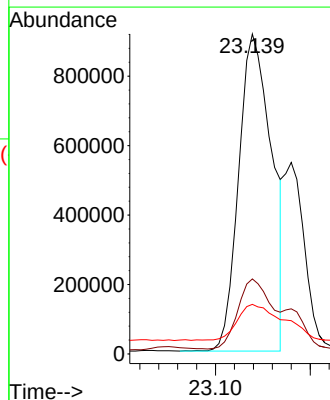
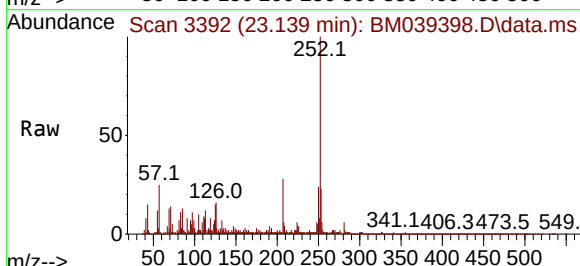
Tgt Ion:252 Resp: 2216858

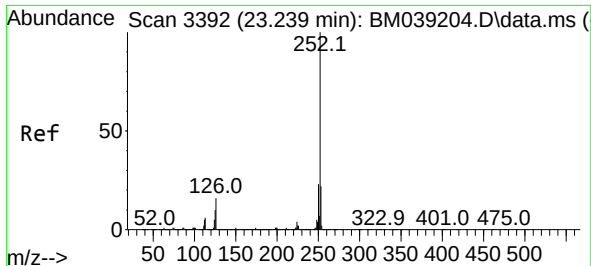
Ion Ratio Lower Upper

252 100

253 23.4 17.6 26.4

125 15.5 9.0 13.6#

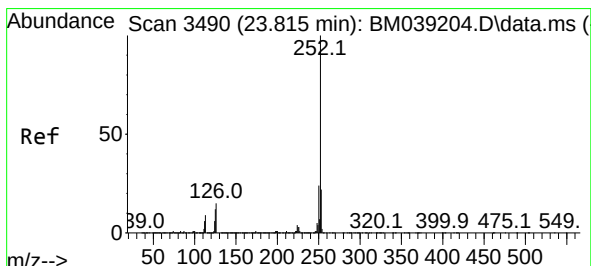
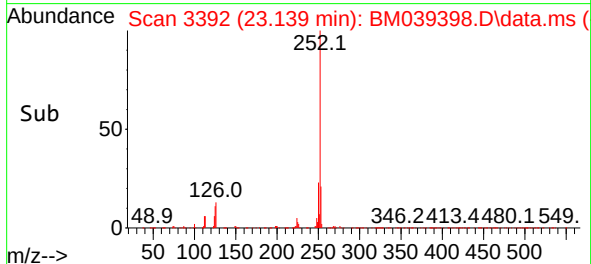
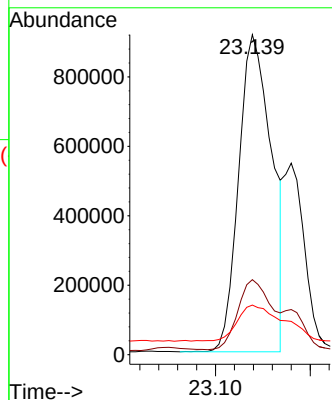
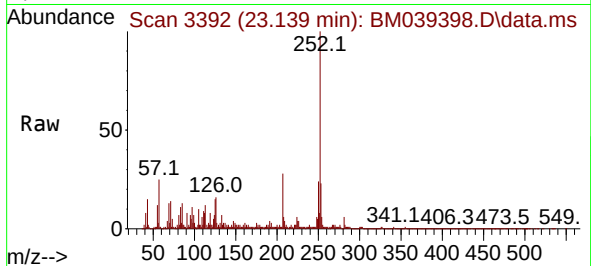




#89
Benzo(k)fluoranthene
Concen: 30.752 ng
RT: 23.139 min Scan# 31
Delta R.T. -0.035 min
Lab File: BM039398.D
Acq: 11 Apr 2023 17:59

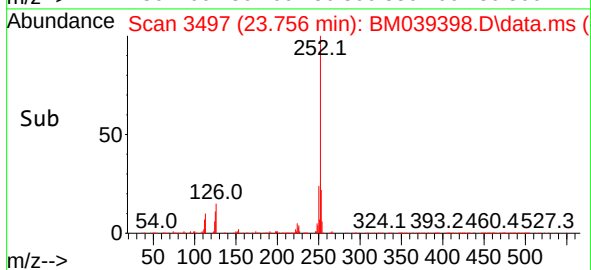
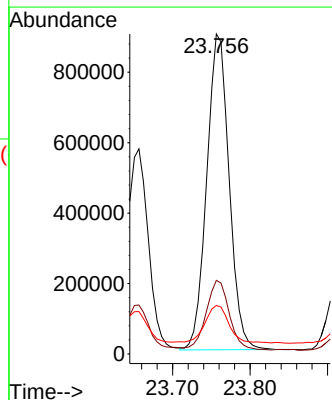
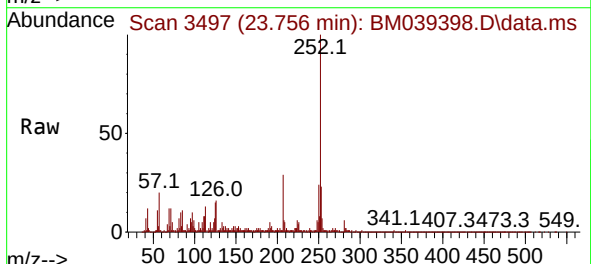
Instrument :
BNA_M
ClientSampleId :
50002-TOTE

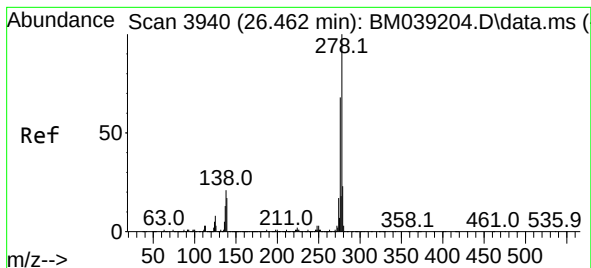
Tgt Ion:252 Resp: 2216858
Ion Ratio Lower Upper
252 100
253 23.4 17.8 26.8
125 15.5 8.5 12.7#



#90
Benzo(a)pyrene
Concen: 25.922 ng
RT: 23.756 min Scan# 3497
Delta R.T. 0.006 min
Lab File: BM039398.D
Acq: 11 Apr 2023 17:59

Tgt Ion:252 Resp: 1802200
Ion Ratio Lower Upper
252 100
253 23.0 17.6 26.4
125 15.2 9.8 14.6#





#91

Dibenzo(a,h)anthracene

Concen: 4.282 ng

RT: 26.344 min Scan# 3940

Delta R.T. -0.006 min

Lab File: BM039398.D

Acq: 11 Apr 2023 17:59

Instrument :

BNA_M

ClientSampleId :

50002-TOTE

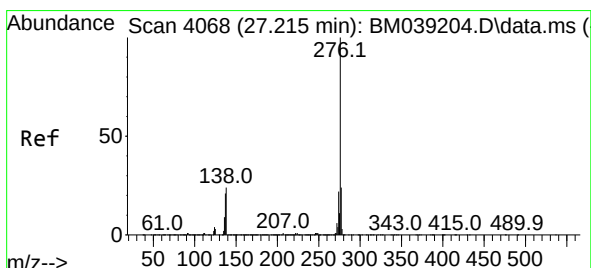
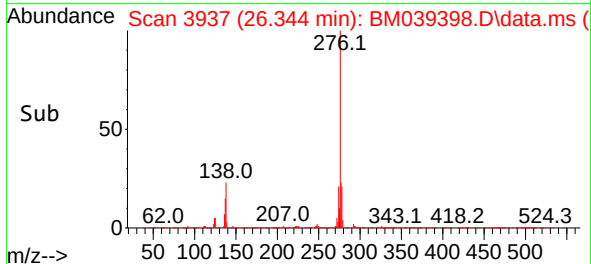
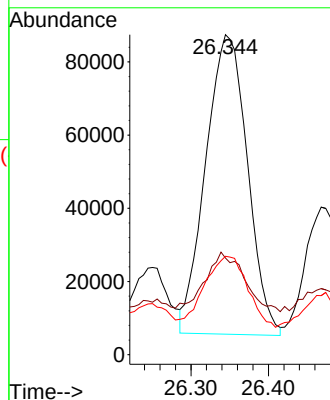
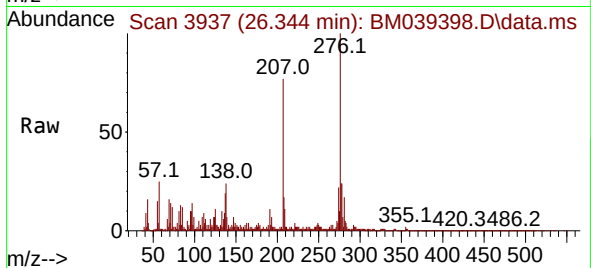
Tgt Ion:278 Resp: 306442

Ion Ratio Lower Upper

278 100

139 30.2 13.9 20.9#

279 30.8 18.8 28.2#



#92

Benzo(g,h,i)perylene

Concen: 15.639 ng

RT: 27.109 min Scan# 4067

Delta R.T. 0.006 min

Lab File: BM039398.D

Acq: 11 Apr 2023 17:59

Tgt Ion:276 Resp: 1100547

Ion Ratio Lower Upper

276 100

277 25.4 19.1 28.7

138 25.7 19.5 29.3

