

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM021423\
 Data File : BM038739.D
 Acq On : 14 Feb 2023 20:40
 Operator : CG/JU
 Sample : 01529-05DL 2X
 Misc :
 ALS Vial : 17 Sample Multiplier: 1

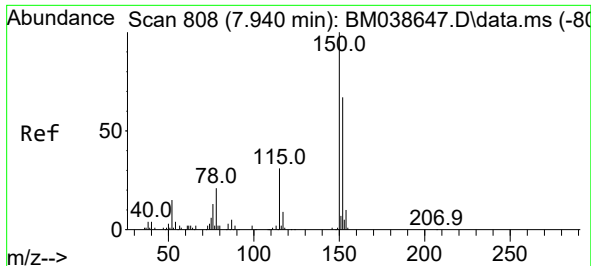
Instrument :
 BNA_M
 ClientSampleId :
 SB-01-5.0-7.0DL

Quant Time: Feb 15 02:11:04 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM020123.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Feb 15 02:07:17 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.898	152	48959	20.000	ng	0.00
21) Naphthalene-d8	10.710	136	170789	20.000	ng	0.00
39) Acenaphthene-d10	14.539	164	104507	20.000	ng	0.00
64) Phenanthrene-d10	17.286	188	217894	20.000	ng	0.00
76) Chrysene-d12	21.462	240	221654	20.000	ng	0.00
86) Perylene-d12	23.838	264	292223	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.457	112	144826	57.947	ng	0.00
7) Phenol-d6	7.075	99	162571	57.032	ng	0.00
23) Nitrobenzene-d5	9.075	82	96818	32.199	ng	0.00
42) 2,4,6-Tribromophenol	16.033	330	30927	21.772	ng	0.00
45) 2-Fluorobiphenyl	13.163	172	274535	33.444	ng	0.00
79) Terphenyl-d14	19.898	244	378235	30.113	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	10.757	128	33531	3.826	ng	98
52) Acenaphthene	14.604	154	50699	8.275	ng	96
55) Dibenzofuran	14.939	168	41356	3.920	ng	99
56) 4-Nitrophenol	14.939	139	14651	10.539	ng	# 9
58) Fluorene	15.586	166	57931	6.940	ng	98
62) 4-Nitroaniline	15.586	138	597	2.164	ng	# 12
71) Phenanthrene	17.327	178	592098	45.765	ng	99
72) Anthracene	17.415	178	172894	13.063	ng	99
73) Carbazole	17.692	167	73713	5.972	ng	99
75) Fluoranthene	19.339	202	684943	50.422	ng	98
77) Benzidine	19.633	184	215	3.144	ng	# 68
78) Pyrene	19.703	202	565973	33.165	ng	99
81) Benzo(a)anthracene	21.445	228	334371	21.326	ng	98
83) Chrysene	21.497	228	264352	17.499	ng	96
87) Indeno(1,2,3-cd)pyrene	26.303	276	176453	7.666	ng	98
88) Benzo(b)fluoranthene	23.115	252	361229	20.638	ng	96
89) Benzo(k)fluoranthene	23.115	252	361229	20.324	ng	# 96
90) Benzo(a)pyrene	23.733	252	274284	15.846	ng	97
91) Dibenzo(a,h)anthracene	26.309	278	52220	2.697	ng	# 81
92) Benzo(g,h,i)perylene	27.068	276	156180	7.978	ng	97

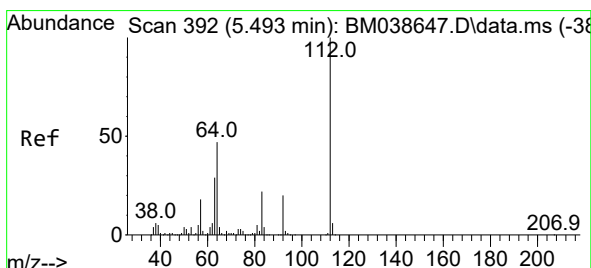
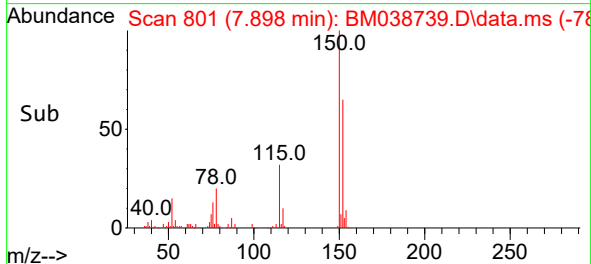
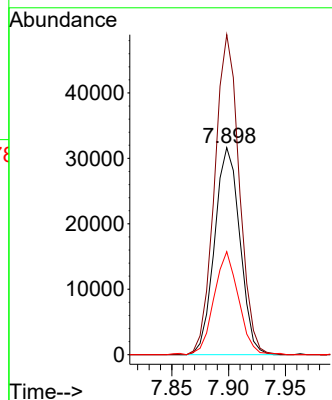
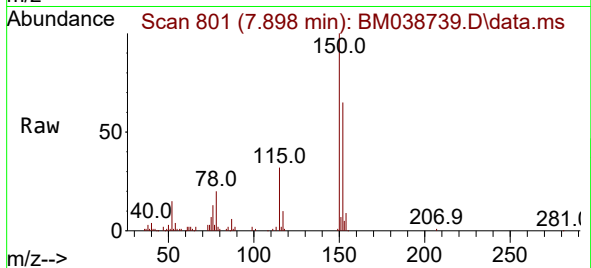
(#) = qualifier out of range (m) = manual integration (+) = signals summed



#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.898 min Scan# 80
Delta R.T. 0.000 min
Lab File: BM038739.D
Acq: 14 Feb 2023 20:40

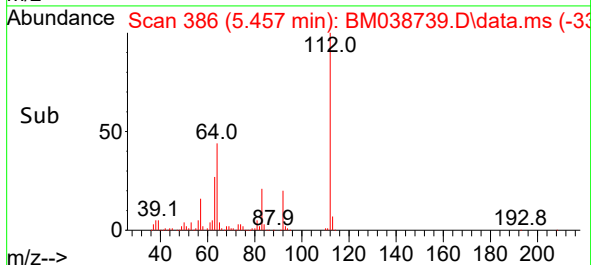
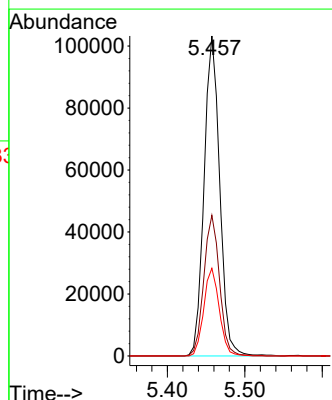
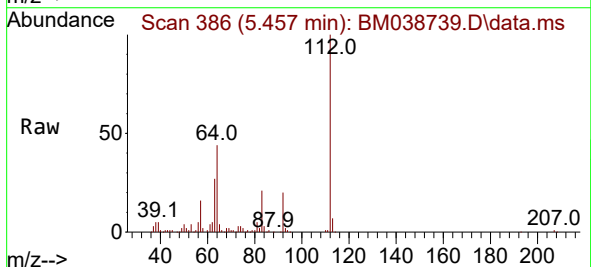
Instrument :
BNA_M
ClientSampleId :
SB-01-5.0-7.0DL

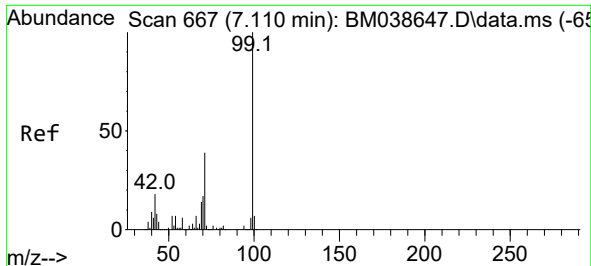
Tgt Ion:152 Resp: 48959
Ion Ratio Lower Upper
152 100
150 154.6 119.5 179.3
115 49.8 37.6 56.4



#5
2-Fluorophenol
Concen: 57.947 ng
RT: 5.457 min Scan# 386
Delta R.T. 0.000 min
Lab File: BM038739.D
Acq: 14 Feb 2023 20:40

Tgt Ion:112 Resp: 144826
Ion Ratio Lower Upper
112 100
64 44.0 37.9 56.9
63 27.4 23.3 34.9

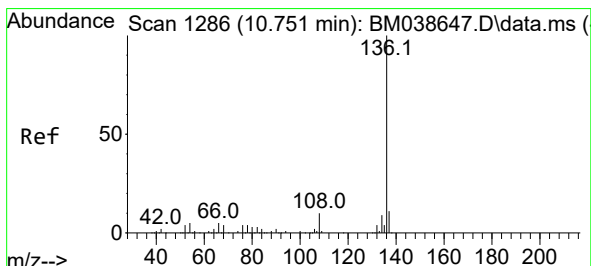
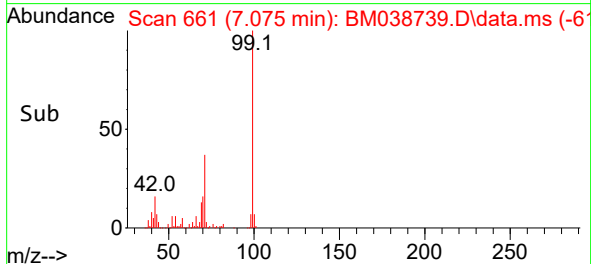
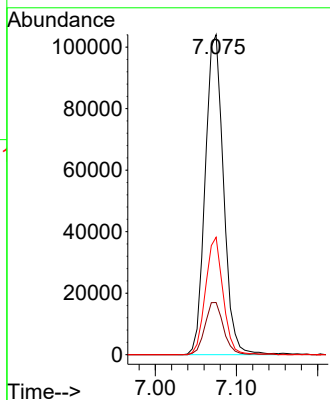
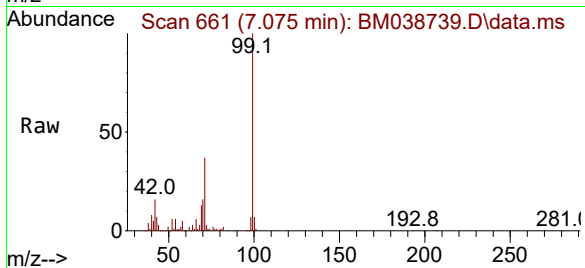




#7
Phenol-d6
Concen: 57.032 ng
RT: 7.075 min Scan# 61
Delta R.T. -0.006 min
Lab File: BM038739.D
Acq: 14 Feb 2023 20:40

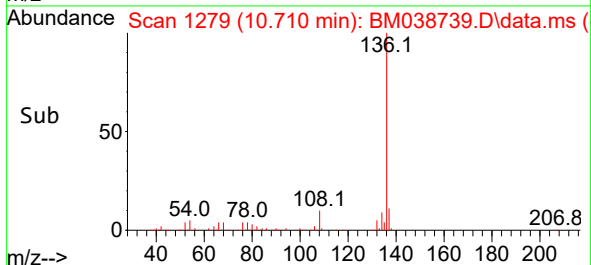
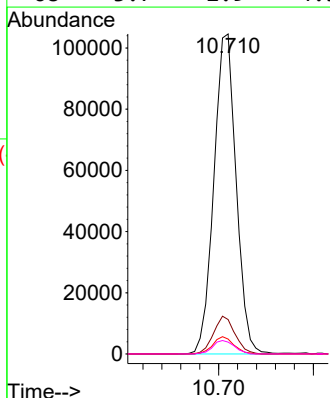
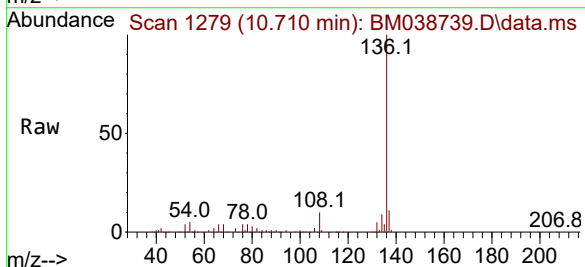
Instrument :
BNA_M
ClientSampleId :
SB-01-5.0-7.0DL

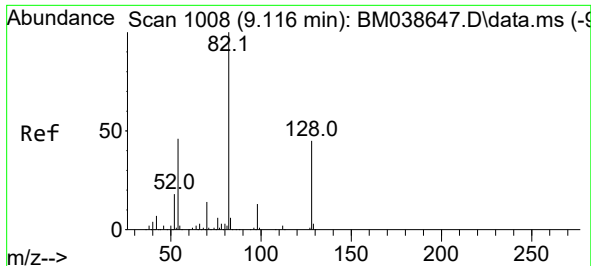
Tgt Ion: 99 Resp: 162571
Ion Ratio Lower Upper
99 100
42 16.3 14.6 22.0
71 36.7 31.0 46.4



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.710 min Scan# 1279
Delta R.T. 0.000 min
Lab File: BM038739.D
Acq: 14 Feb 2023 20:40

Tgt Ion: 136 Resp: 170789
Ion Ratio Lower Upper
136 100
137 10.7 8.8 13.2
54 4.7 4.2 6.4
68 3.7 2.9 4.3





#23

Nitrobenzene-d5

Concen: 32.199 ng

RT: 9.075 min Scan# 1008

Delta R.T. -0.006 min

Lab File: BM038739.D

Acq: 14 Feb 2023 20:40

Instrument :

BNA_M

ClientSampleId :

SB-01-5.0-7.0DL

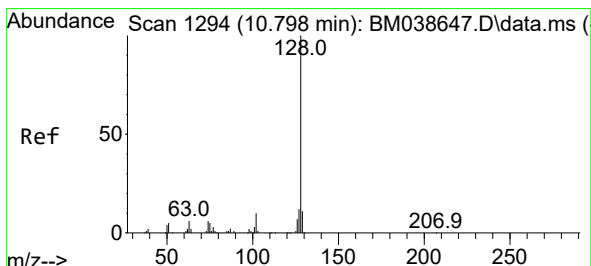
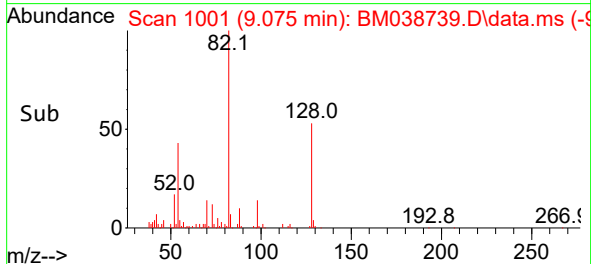
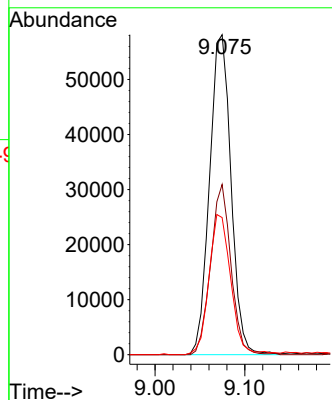
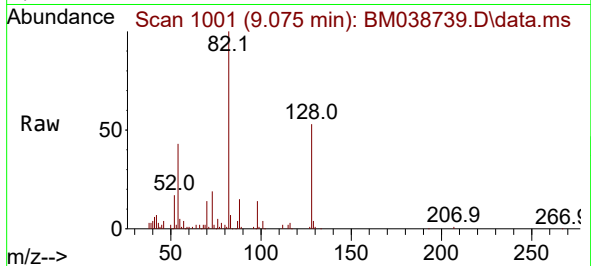
Tgt Ion: 82 Resp: 96818

Ion Ratio Lower Upper

82 100

128 53.2 36.0 54.0

54 42.9 36.8 55.2



#31

Naphthalene

Concen: 3.826 ng

RT: 10.757 min Scan# 1287

Delta R.T. -0.006 min

Lab File: BM038739.D

Acq: 14 Feb 2023 20:40

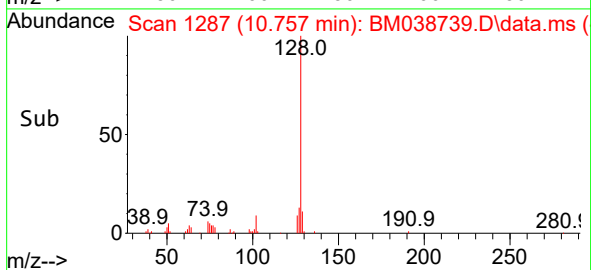
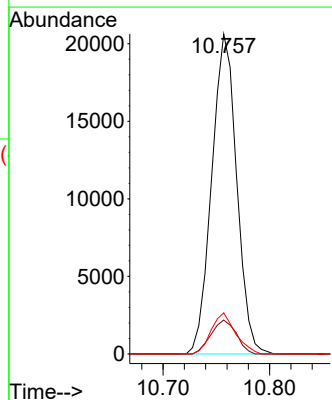
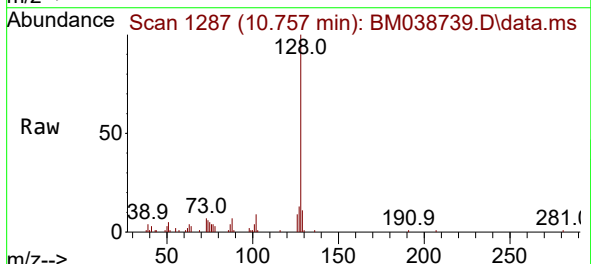
Tgt Ion:128 Resp: 33531

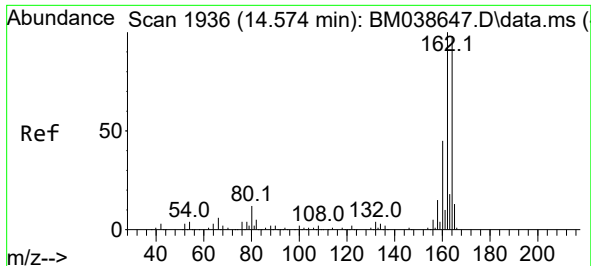
Ion Ratio Lower Upper

128 100

129 10.6 9.1 13.7

127 12.8 9.9 14.9

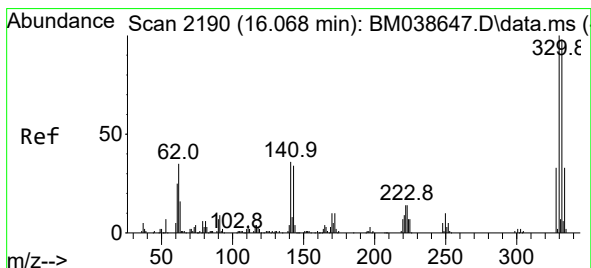
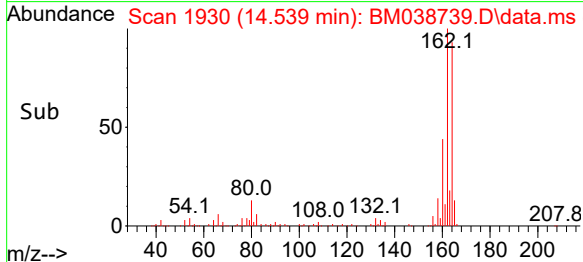
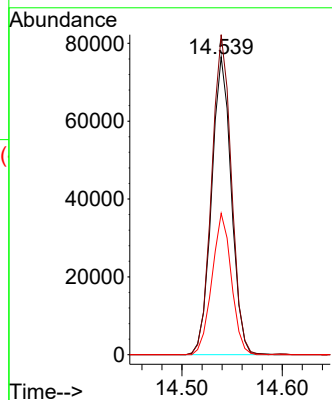
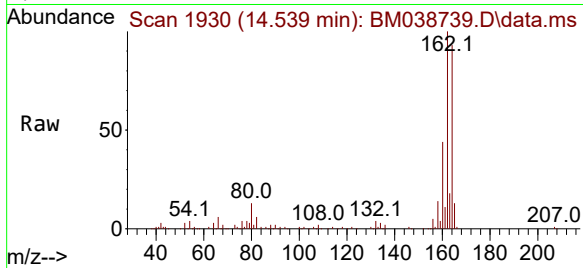




#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.539 min Scan# 1936
Delta R.T. -0.006 min
Lab File: BM038739.D
Acq: 14 Feb 2023 20:40

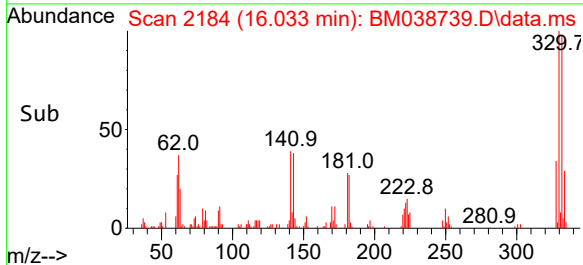
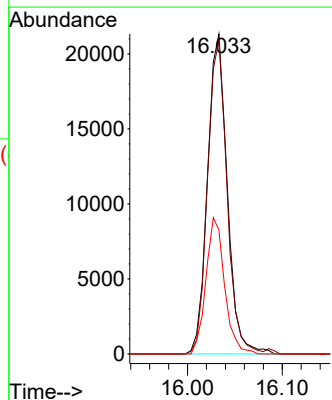
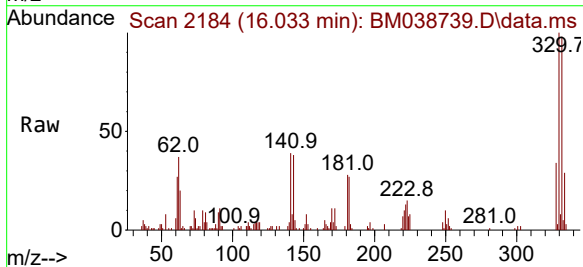
Instrument :
BNA_M
ClientSampleId :
SB-01-5.0-7.0DL

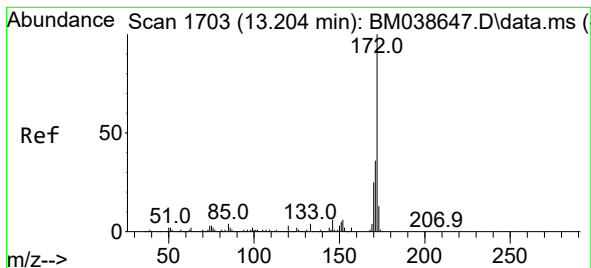
Tgt Ion:164 Resp: 104507
Ion Ratio Lower Upper
164 100
162 107.4 81.4 122.0
160 47.4 36.5 54.7



#42
2,4,6-Tribromophenol
Concen: 21.772 ng
RT: 16.033 min Scan# 2184
Delta R.T. 0.000 min
Lab File: BM038739.D
Acq: 14 Feb 2023 20:40

Tgt Ion:330 Resp: 30927
Ion Ratio Lower Upper
330 100
332 96.1 77.8 116.6
141 40.3 31.0 46.6





#45

2-Fluorobiphenyl

Concen: 33.444 ng

RT: 13.163 min Scan# 1

Delta R.T. -0.006 min

Lab File: BM038739.D

Acq: 14 Feb 2023 20:40

Instrument :

BNA_M

ClientSampleId :

SB-01-5.0-7.0DL

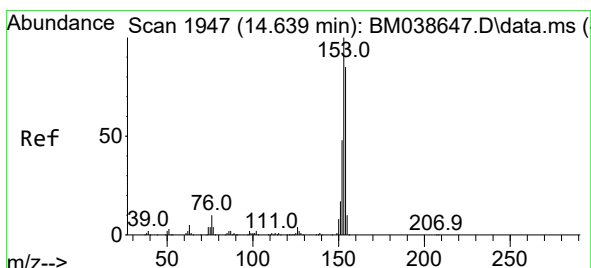
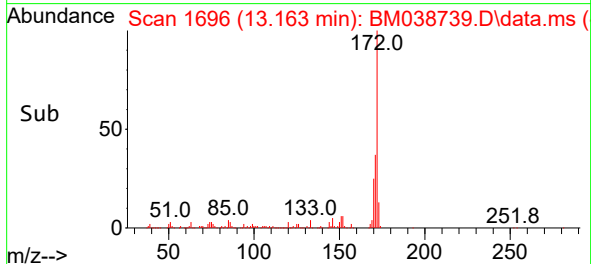
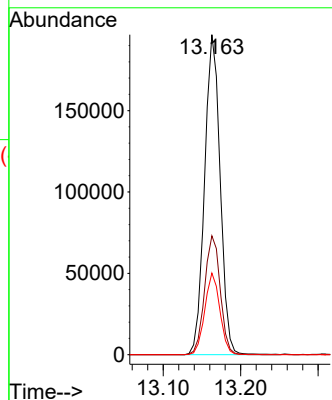
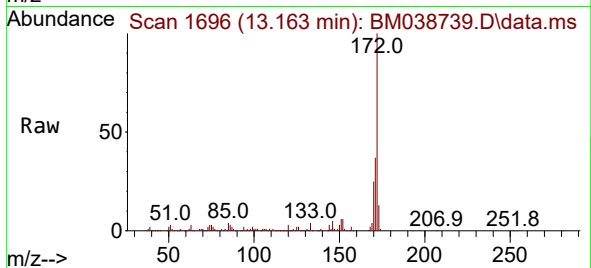
Tgt Ion:172 Resp: 274535

Ion Ratio Lower Upper

172 100

171 37.1 28.7 43.1

170 25.5 20.0 30.0



#52

Acenaphthene

Concen: 8.275 ng

RT: 14.604 min Scan# 1941

Delta R.T. -0.006 min

Lab File: BM038739.D

Acq: 14 Feb 2023 20:40

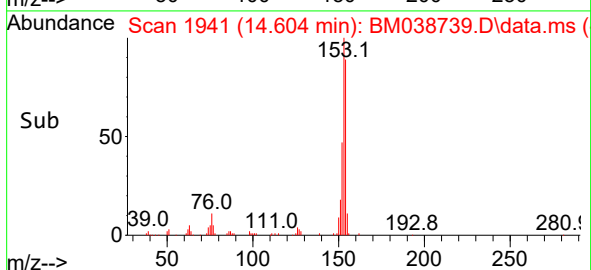
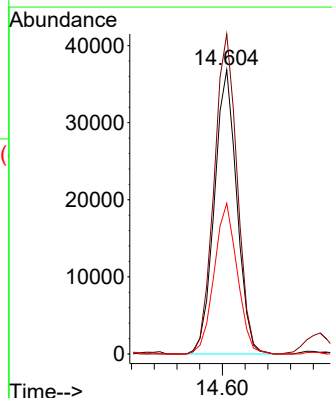
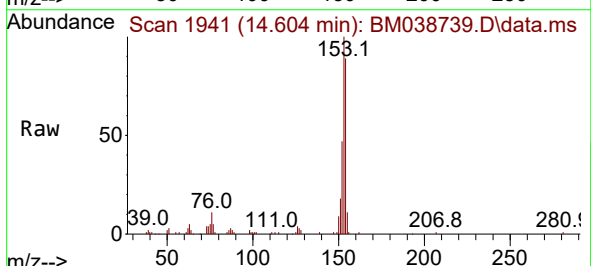
Tgt Ion:154 Resp: 50699

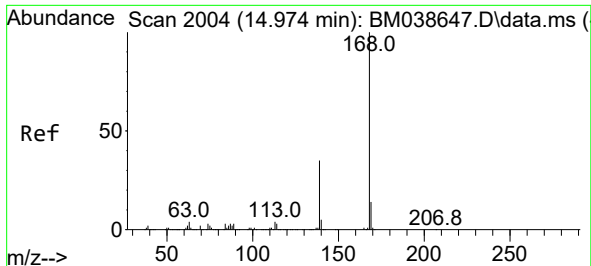
Ion Ratio Lower Upper

154 100

153 112.6 93.7 140.5

152 53.0 44.6 67.0

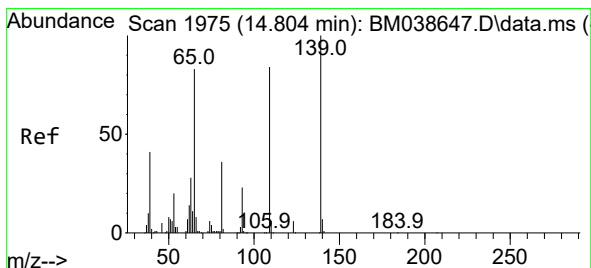
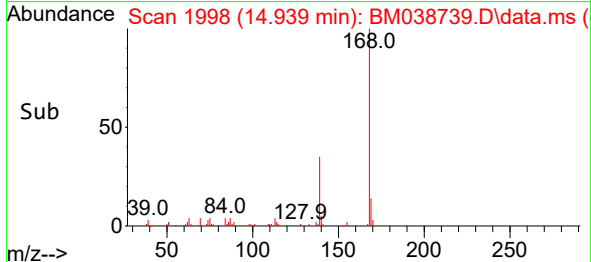
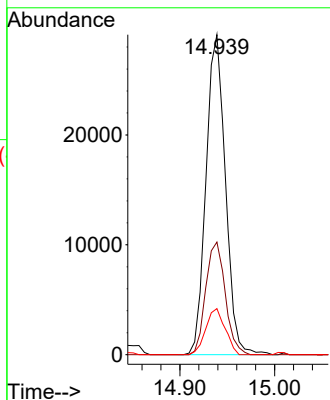
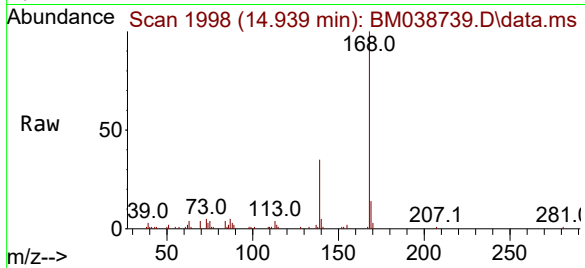




#55
Dibenzenofuran
Concen: 3.920 ng
RT: 14.939 min Scan# 1998
Delta R.T. 0.000 min
Lab File: BM038739.D
Acq: 14 Feb 2023 20:40

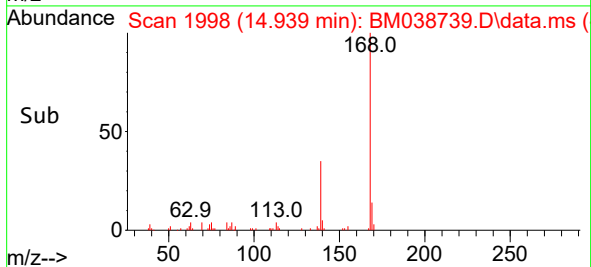
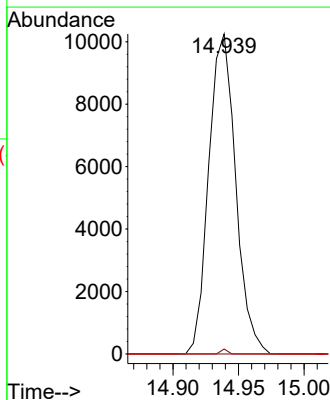
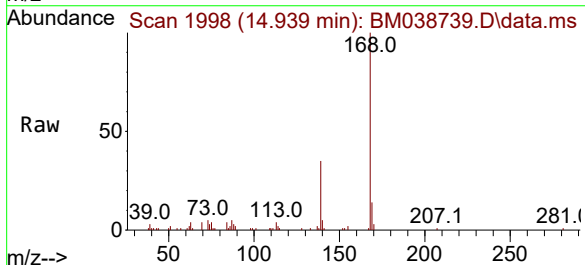
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SB-01-5.0-7.0DL

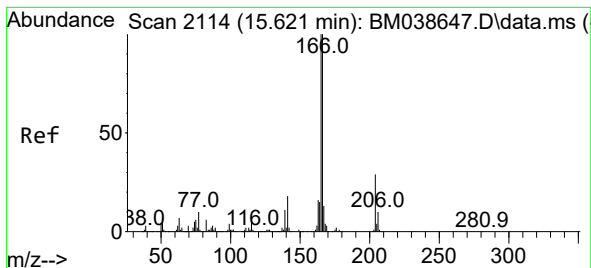
Tgt Ion:168 Resp: 41356
Ion Ratio Lower Upper
168 100
139 35.2 27.8 41.6
169 14.4 10.9 16.3



#56
4-Nitrophenol
Concen: 10.539 ng
RT: 14.939 min Scan# 1998
Delta R.T. 0.159 min
Lab File: BM038739.D
Acq: 14 Feb 2023 20:40

Tgt Ion:139 Resp: 14651
Ion Ratio Lower Upper
139 100
109 1.5 63.8 103.8#
65 0.0 62.5 102.5#





#58

Fluorene

Concen: 6.940 ng

RT: 15.586 min Scan# 2114

Delta R.T. -0.006 min

Lab File: BM038739.D

Acq: 14 Feb 2023 20:40

Instrument :

BNA_M

ClientSampleId :

SB-01-5.0-7.0DL

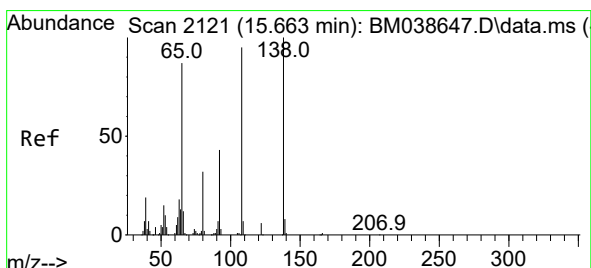
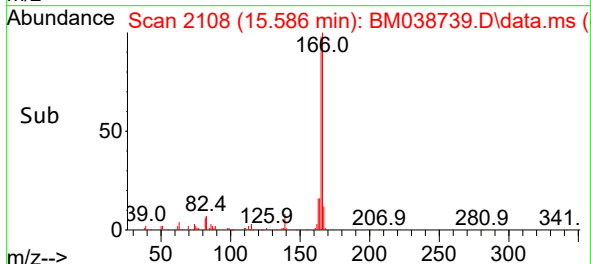
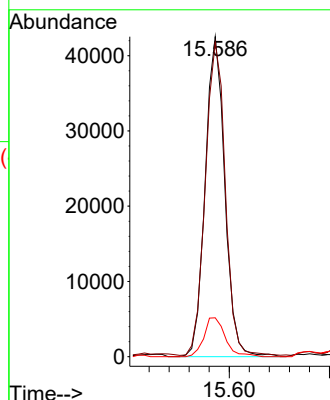
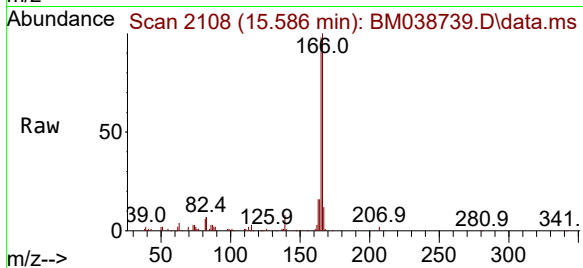
Tgt Ion:166 Resp: 57931

Ion Ratio Lower Upper

166 100

165 98.1 80.2 120.4

167 12.2 10.7 16.1



#62

4-Nitroaniline

Concen: 2.164 ng

RT: 15.586 min Scan# 2108

Delta R.T. -0.041 min

Lab File: BM038739.D

Acq: 14 Feb 2023 20:40

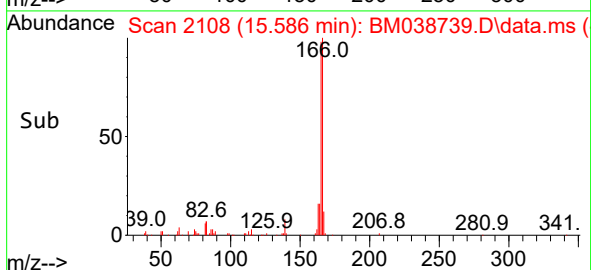
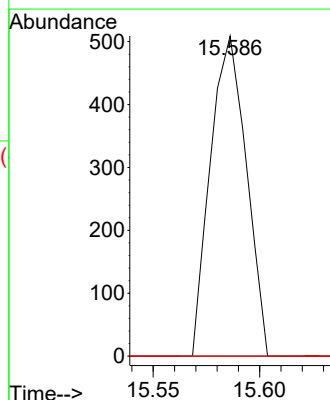
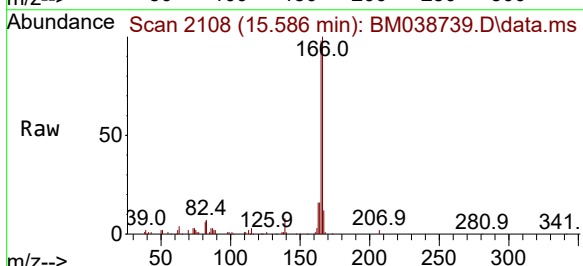
Tgt Ion:138 Resp: 597

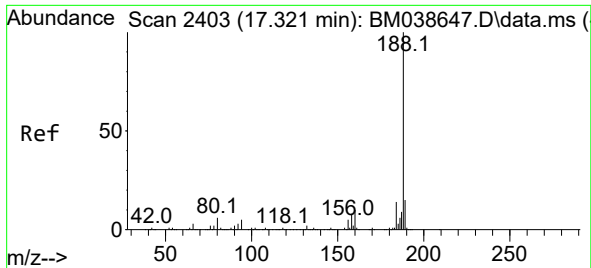
Ion Ratio Lower Upper

138 100

92 0.0 23.4 63.4#

108 0.0 75.1 115.1#

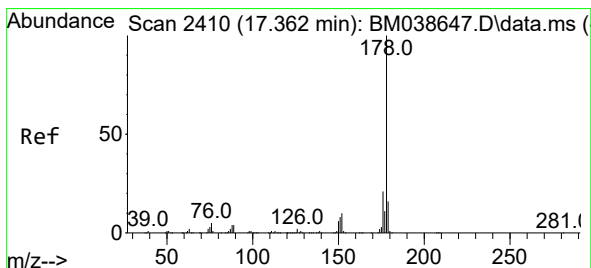
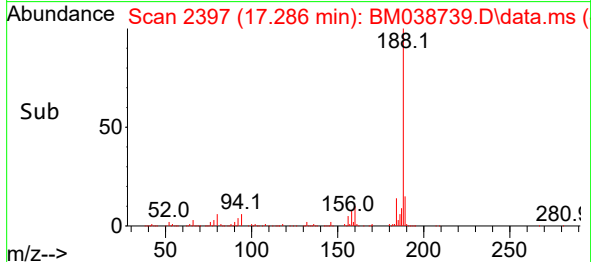
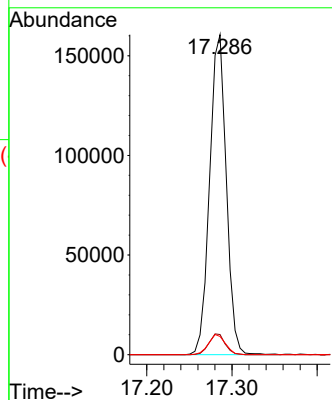
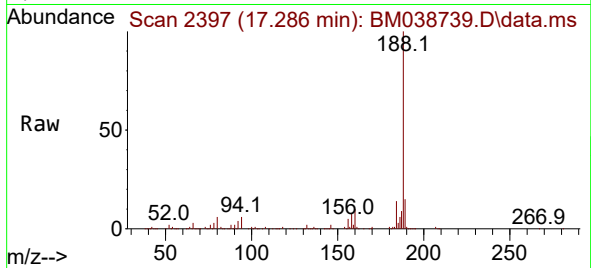




#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.286 min Scan# 21
Delta R.T. 0.000 min
Lab File: BM038739.D
Acq: 14 Feb 2023 20:40

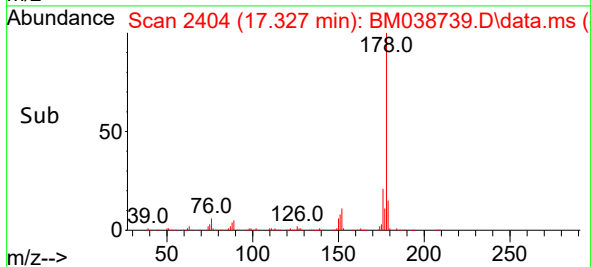
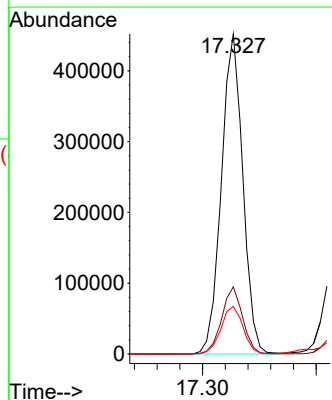
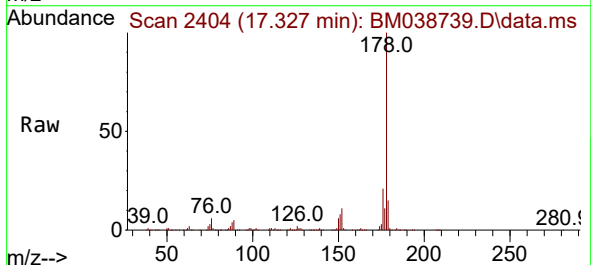
Instrument :
BNA_M
ClientSampleId :
SB-01-5.0-7.0DL

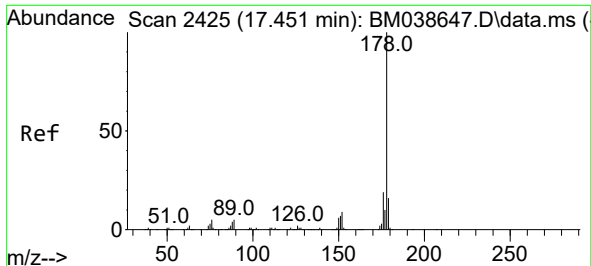
Tgt Ion:188 Resp: 217894
Ion Ratio Lower Upper
188 100
94 6.3 4.2 6.4
80 5.7 4.6 7.0



#71
Phenanthrene
Concen: 45.765 ng
RT: 17.327 min Scan# 2404
Delta R.T. 0.000 min
Lab File: BM038739.D
Acq: 14 Feb 2023 20:40

Tgt Ion:178 Resp: 592098
Ion Ratio Lower Upper
178 100
176 21.0 16.7 25.1
179 14.8 12.5 18.7

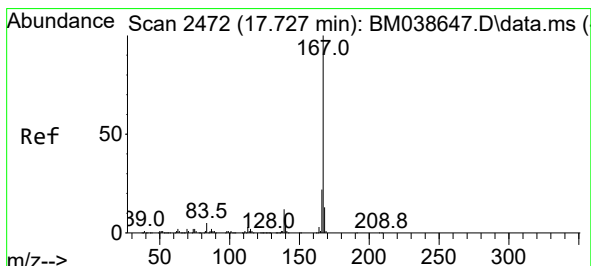
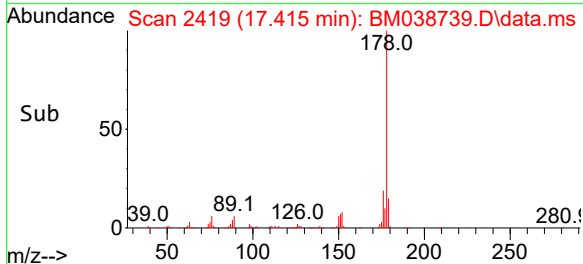
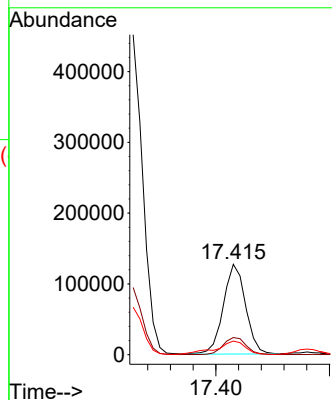
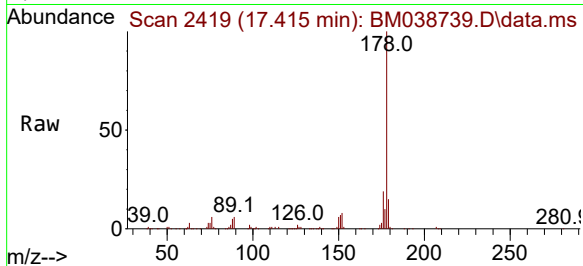




#72
 Anthracene
 Concen: 13.063 ng
 RT: 17.415 min Scan# 2419
 Delta R.T. -0.006 min
 Lab File: BM038739.D
 Acq: 14 Feb 2023 20:40

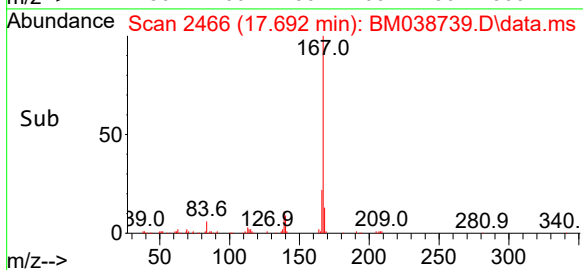
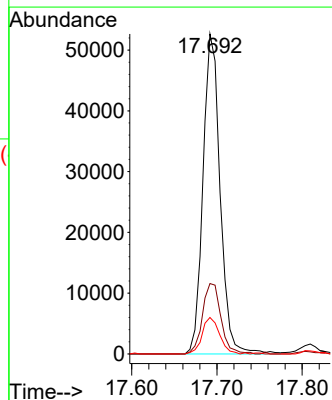
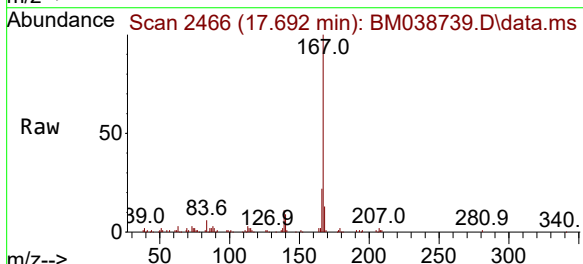
Instrument :
 BNA_M
 ClientSampleId :
 SB-01-5.0-7.0DL

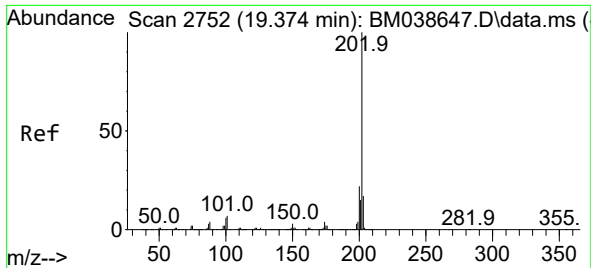
Tgt Ion:178 Resp: 172894
 Ion Ratio Lower Upper
 178 100
 176 19.0 15.6 23.4
 179 15.0 12.4 18.6



#73
 Carbazole
 Concen: 5.972 ng
 RT: 17.692 min Scan# 2466
 Delta R.T. -0.006 min
 Lab File: BM038739.D
 Acq: 14 Feb 2023 20:40

Tgt Ion:167 Resp: 73713
 Ion Ratio Lower Upper
 167 100
 166 22.0 17.8 26.6
 139 11.4 9.4 14.2

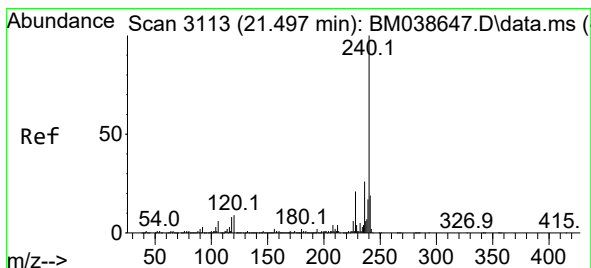
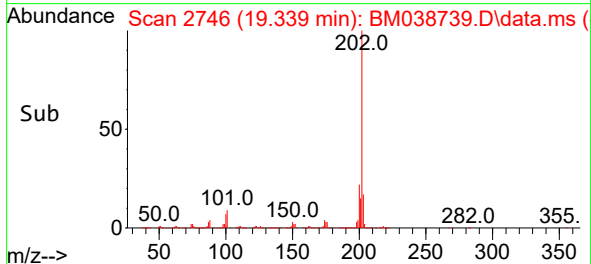
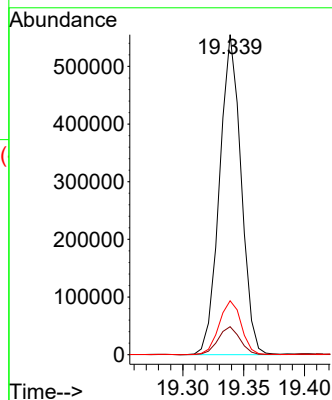
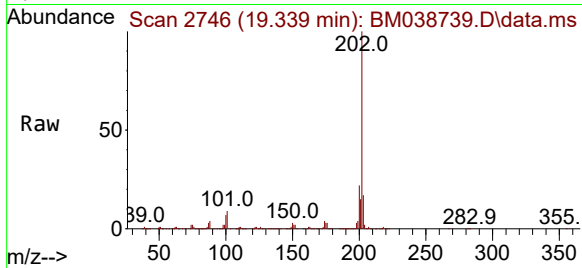




#75
Fluoranthene
Concen: 50.422 ng
RT: 19.339 min Scan# 21
Delta R.T. 0.000 min
Lab File: BM038739.D
Acq: 14 Feb 2023 20:40

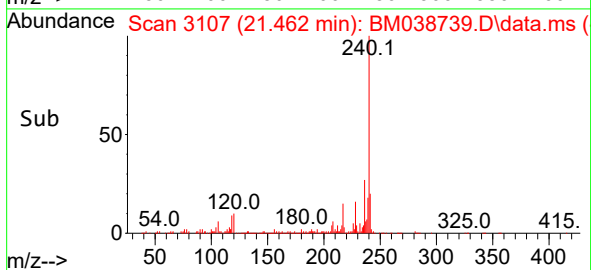
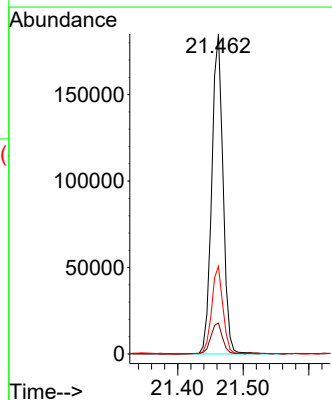
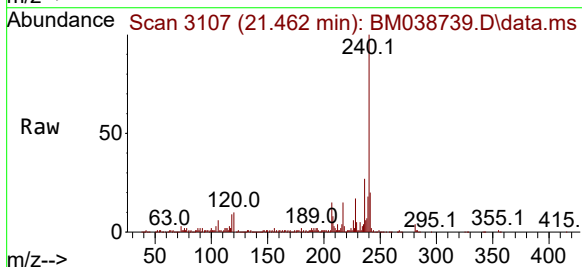
Instrument :
BNA_M
ClientSampleId :
SB-01-5.0-7.0DL

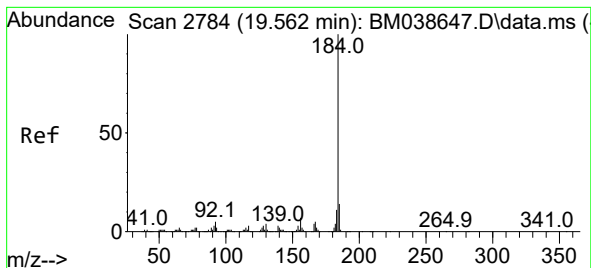
Tgt Ion:202 Resp: 684943
Ion Ratio Lower Upper
202 100
101 8.7 0.0 27.4
203 16.9 0.0 37.3



#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.462 min Scan# 3107
Delta R.T. 0.000 min
Lab File: BM038739.D
Acq: 14 Feb 2023 20:40

Tgt Ion:240 Resp: 221654
Ion Ratio Lower Upper
240 100
120 9.6 7.0 10.4
236 27.4 20.9 31.3





#77

Benzidine

Concen: 3.144 ng

RT: 19.633 min Scan# 21

Delta R.T. 0.100 min

Lab File: BM038739.D

Acq: 14 Feb 2023 20:40

Instrument :

BNA_M

ClientSampleId :

SB-01-5.0-7.0DL

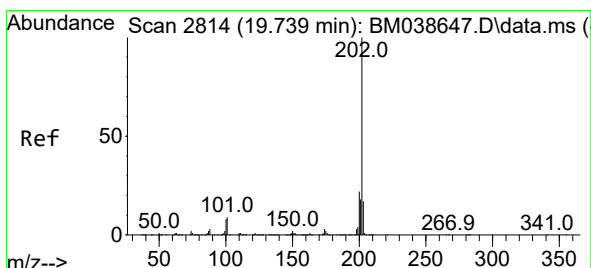
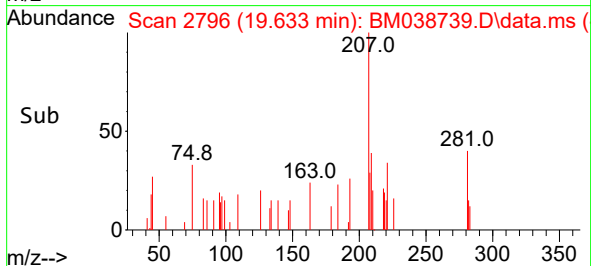
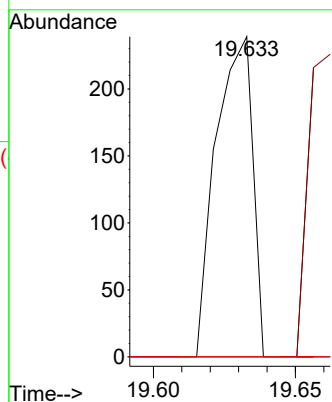
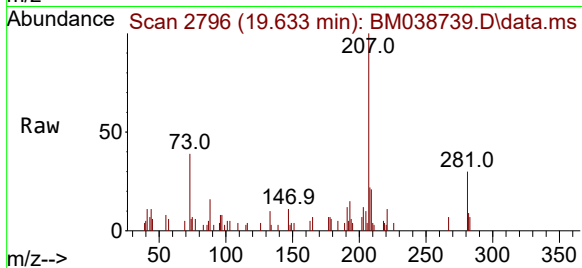
Tgt Ion:184 Resp: 215

Ion Ratio Lower Upper

184 100

185 0.0 10.8 16.2#

183 0.0 8.8 13.2#



#78

Pyrene

Concen: 33.165 ng

RT: 19.703 min Scan# 2808

Delta R.T. 0.000 min

Lab File: BM038739.D

Acq: 14 Feb 2023 20:40

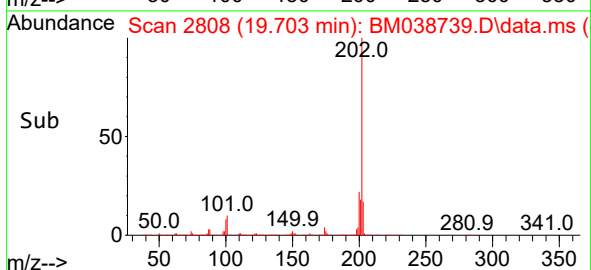
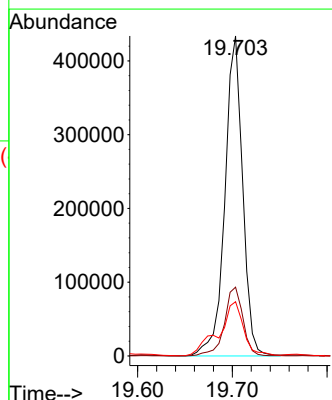
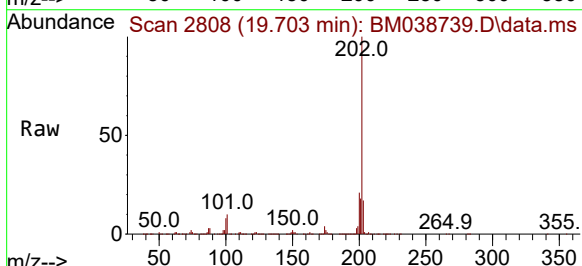
Tgt Ion:202 Resp: 565973

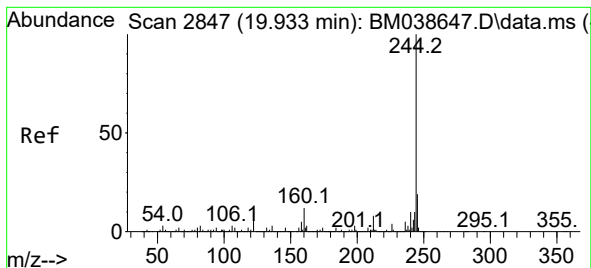
Ion Ratio Lower Upper

202 100

200 21.5 17.8 26.6

203 16.9 13.5 20.3





#79

Terphenyl-d14

Concen: 30.113 ng

RT: 19.898 min Scan# 21

Delta R.T. -0.006 min

Lab File: BM038739.D

Acq: 14 Feb 2023 20:40

Instrument :

BNA_M

ClientSampleId :

SB-01-5.0-7.0DL

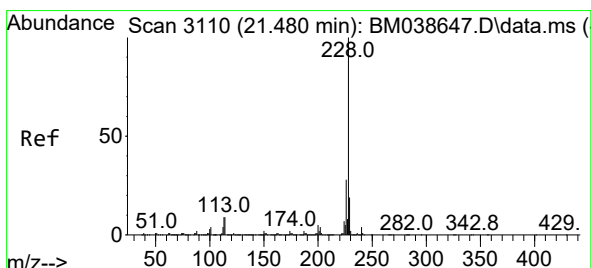
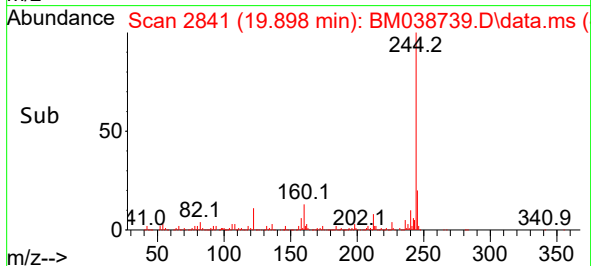
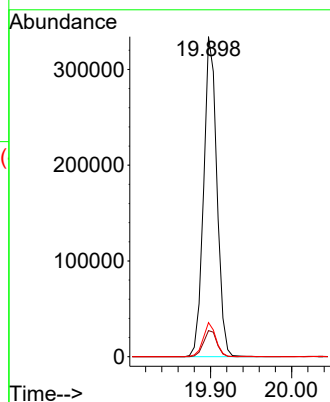
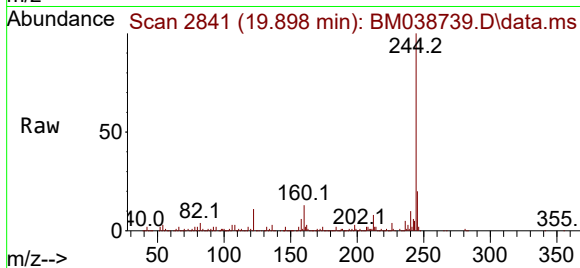
Tgt Ion:244 Resp: 378235

Ion Ratio Lower Upper

244 100

212 8.1 6.6 9.8

122 10.7 7.8 11.8



#81

Benzo(a)anthracene

Concen: 21.326 ng

RT: 21.445 min Scan# 3104

Delta R.T. 0.000 min

Lab File: BM038739.D

Acq: 14 Feb 2023 20:40

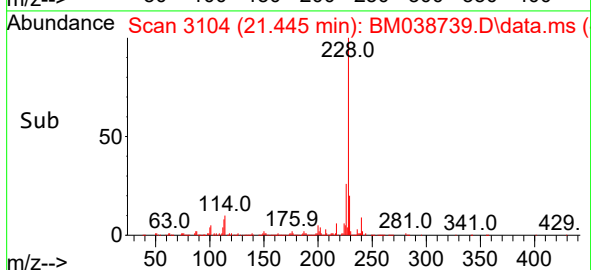
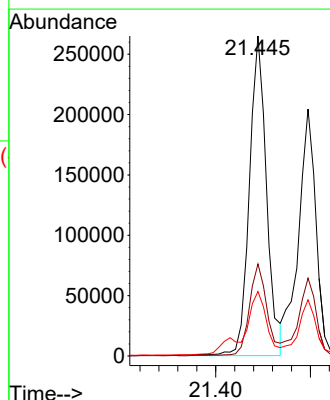
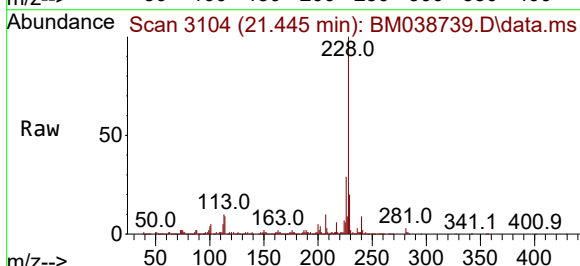
Tgt Ion:228 Resp: 334371

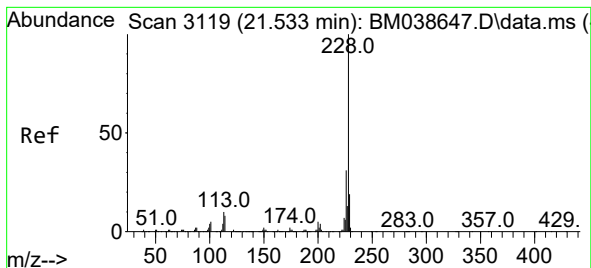
Ion Ratio Lower Upper

228 100

226 28.7 22.2 33.4

229 20.1 15.5 23.3





#83

Chrysene

Concen: 17.499 ng

RT: 21.497 min Scan# 3119

Delta R.T. -0.006 min

Lab File: BM038739.D

Acq: 14 Feb 2023 20:40

Instrument :

BNA_M

ClientSampleId :

SB-01-5.0-7.0DL

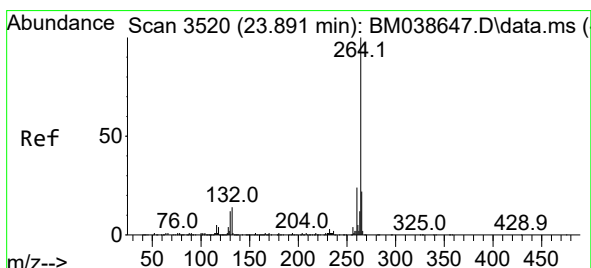
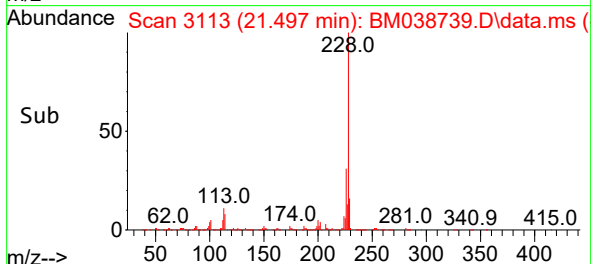
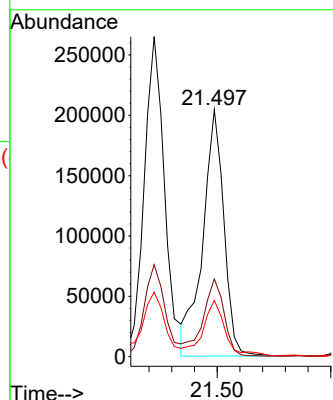
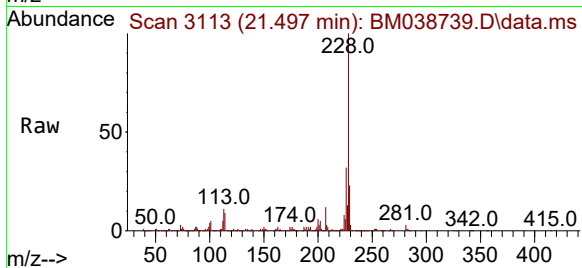
Tgt Ion:228 Resp: 264352

Ion Ratio Lower Upper

228 100

226 31.5 24.7 37.1

229 22.7 15.5 23.3



#86

Perylene-d12

Concen: 20.000 ng

RT: 23.838 min Scan# 3511

Delta R.T. 0.000 min

Lab File: BM038739.D

Acq: 14 Feb 2023 20:40

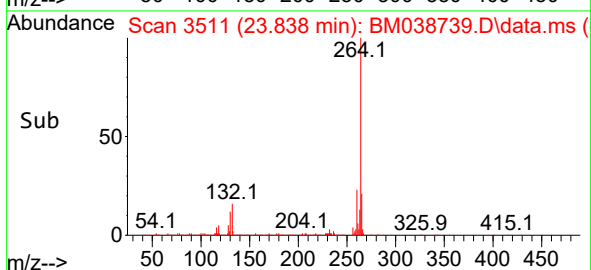
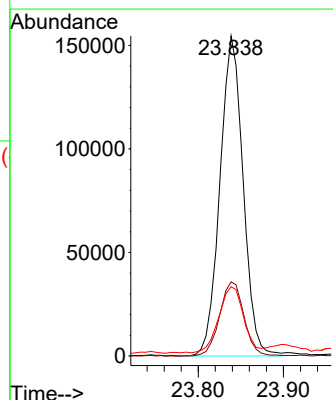
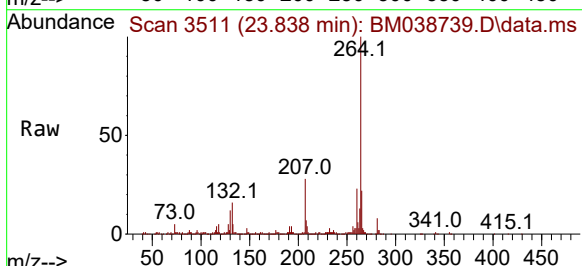
Tgt Ion:264 Resp: 292223

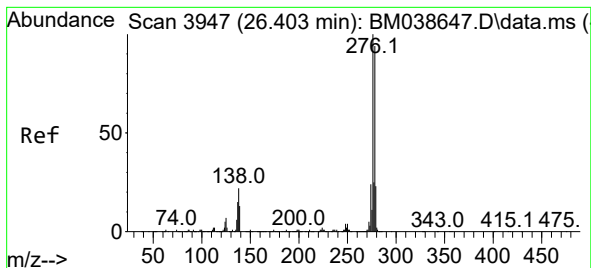
Ion Ratio Lower Upper

264 100

260 23.1 19.6 29.4

265 21.6 17.9 26.9





#87

Indeno(1,2,3-cd)pyrene

Concen: 7.666 ng

RT: 26.303 min Scan# 3947

Delta R.T. -0.012 min

Lab File: BM038739.D

Acq: 14 Feb 2023 20:40

Instrument :

BNA_M

ClientSampleId :

SB-01-5.0-7.0DL

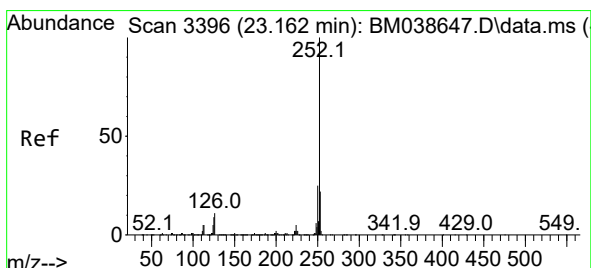
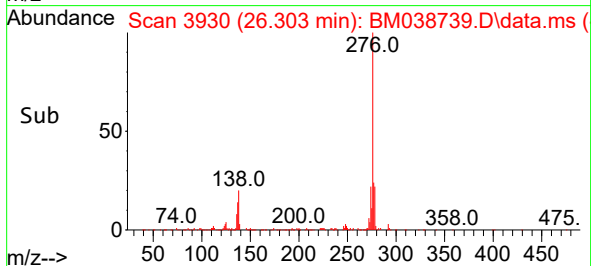
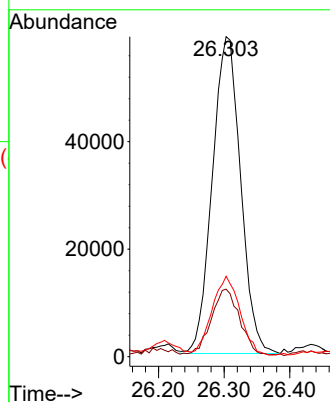
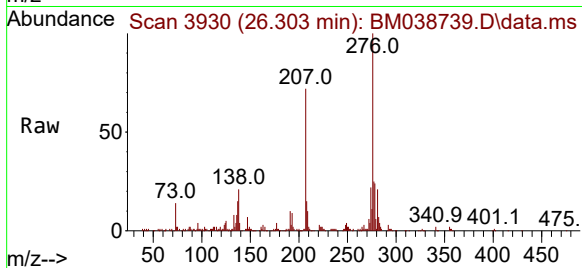
Tgt Ion:276 Resp: 176453

Ion Ratio Lower Upper

276 100

138 20.7 17.2 25.8

277 24.6 20.2 30.4



#88

Benzo(b)fluoranthene

Concen: 20.638 ng

RT: 23.115 min Scan# 3388

Delta R.T. 0.000 min

Lab File: BM038739.D

Acq: 14 Feb 2023 20:40

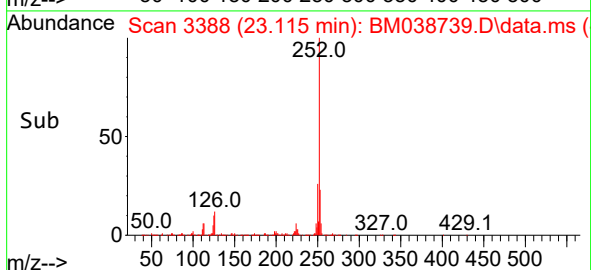
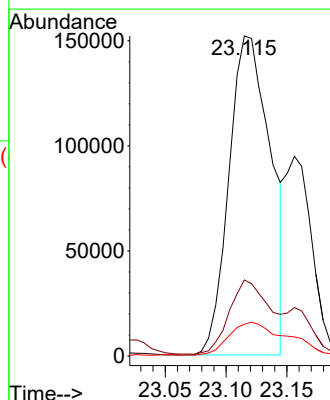
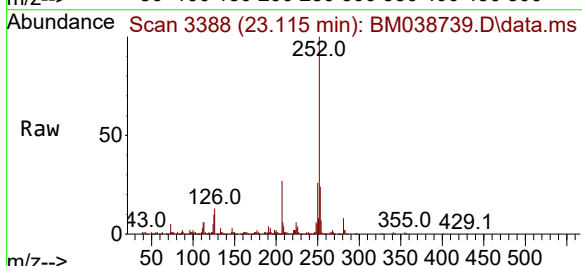
Tgt Ion:252 Resp: 361229

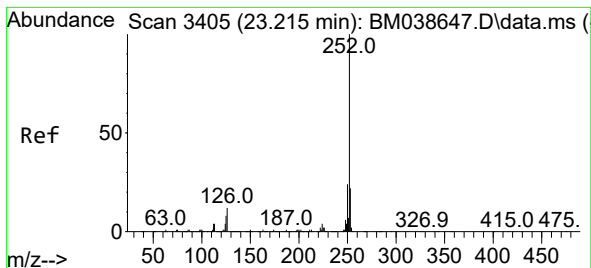
Ion Ratio Lower Upper

252 100

253 23.7 17.4 26.2

125 9.9 7.0 10.6





#89

Benzo(k)fluoranthene

Concen: 20.324 ng

RT: 23.115 min Scan# 31

Delta R.T. -0.047 min

Lab File: BM038739.D

Acq: 14 Feb 2023 20:40

Instrument :

BNA_M

ClientSampleId :

SB-01-5.0-7.0DL

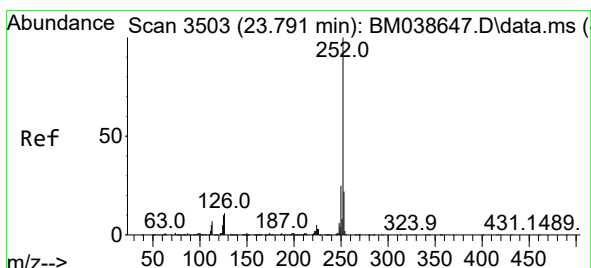
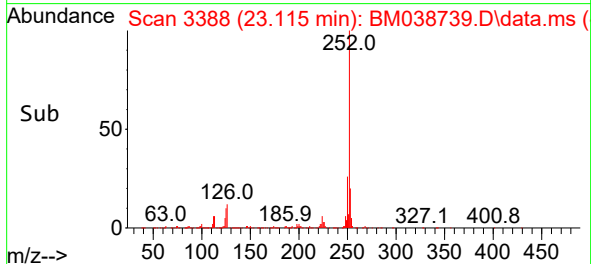
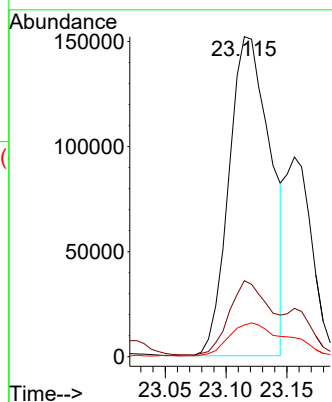
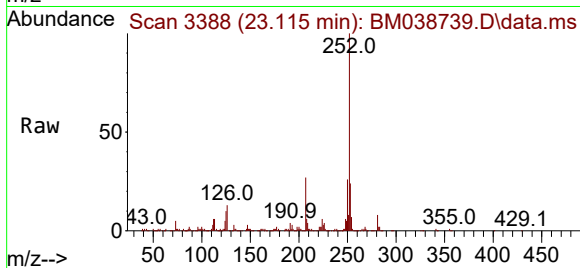
Tgt Ion:252 Resp: 361229

Ion Ratio Lower Upper

252 100

253 23.7 17.4 26.0

125 9.9 6.6 9.8#



#90

Benzo(a)pyrene

Concen: 15.846 ng

RT: 23.733 min Scan# 3493

Delta R.T. -0.006 min

Lab File: BM038739.D

Acq: 14 Feb 2023 20:40

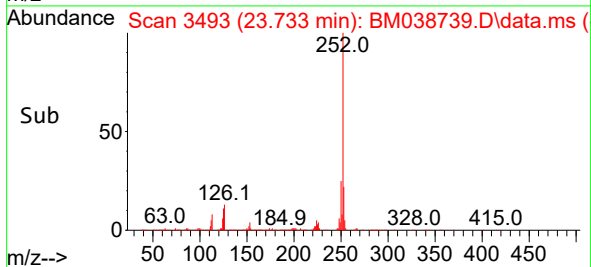
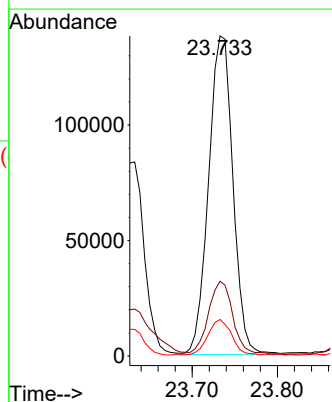
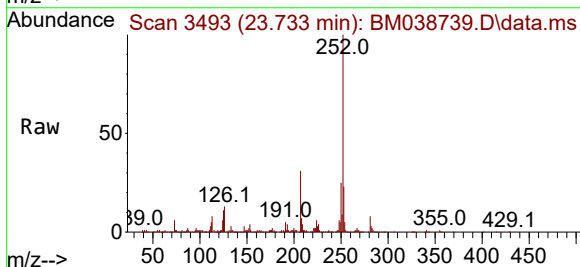
Tgt Ion:252 Resp: 274284

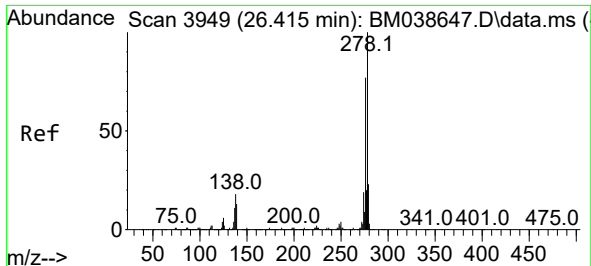
Ion Ratio Lower Upper

252 100

253 23.4 17.7 26.5

125 11.4 7.8 11.8

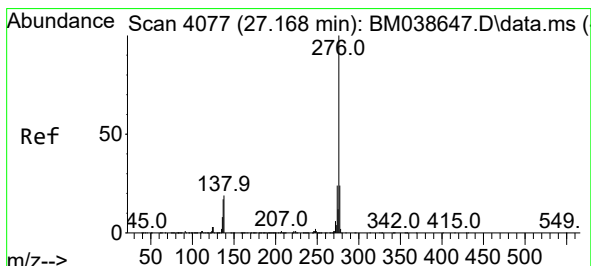
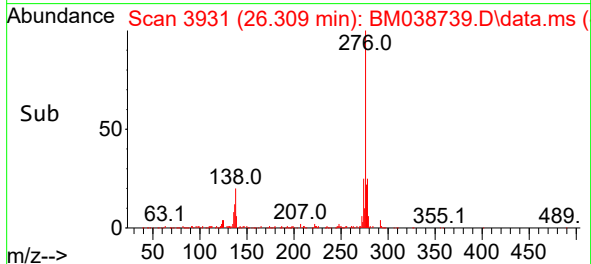
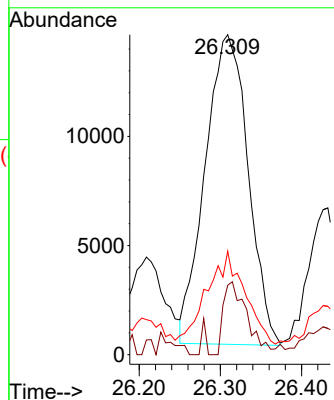
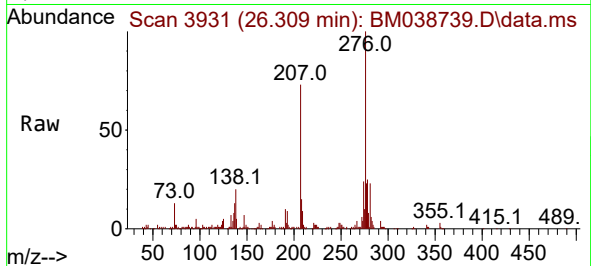




#91
Dibenzo(a,h)anthracene
Concen: 2.697 ng
RT: 26.309 min Scan# 3949
Delta R.T. -0.018 min
Lab File: BM038739.D
Acq: 14 Feb 2023 20:40

Instrument :
BNA_M
ClientSampleId :
SB-01-5.0-7.0DL

Tgt Ion:278 Resp: 52220
Ion Ratio Lower Upper
278 100
139 21.7 10.5 15.7#
279 32.3 18.7 28.1#



#92
Benzo(g,h,i)perylene
Concen: 7.978 ng
RT: 27.068 min Scan# 4060
Delta R.T. -0.012 min
Lab File: BM038739.D
Acq: 14 Feb 2023 20:40

Tgt Ion:276 Resp: 156180
Ion Ratio Lower Upper
276 100
277 23.4 19.1 28.7
138 21.2 15.3 22.9

