

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM022023\
 Data File : BM038802.D
 Acq On : 21 Feb 2023 00:33
 Operator : CG/JU
 Sample : 01593-02
 Misc :
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 B-13-SB03

Quant Time: Feb 21 02:11:48 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM020123.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Feb 21 02:04:34 2023
 Response via : Initial Calibration

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

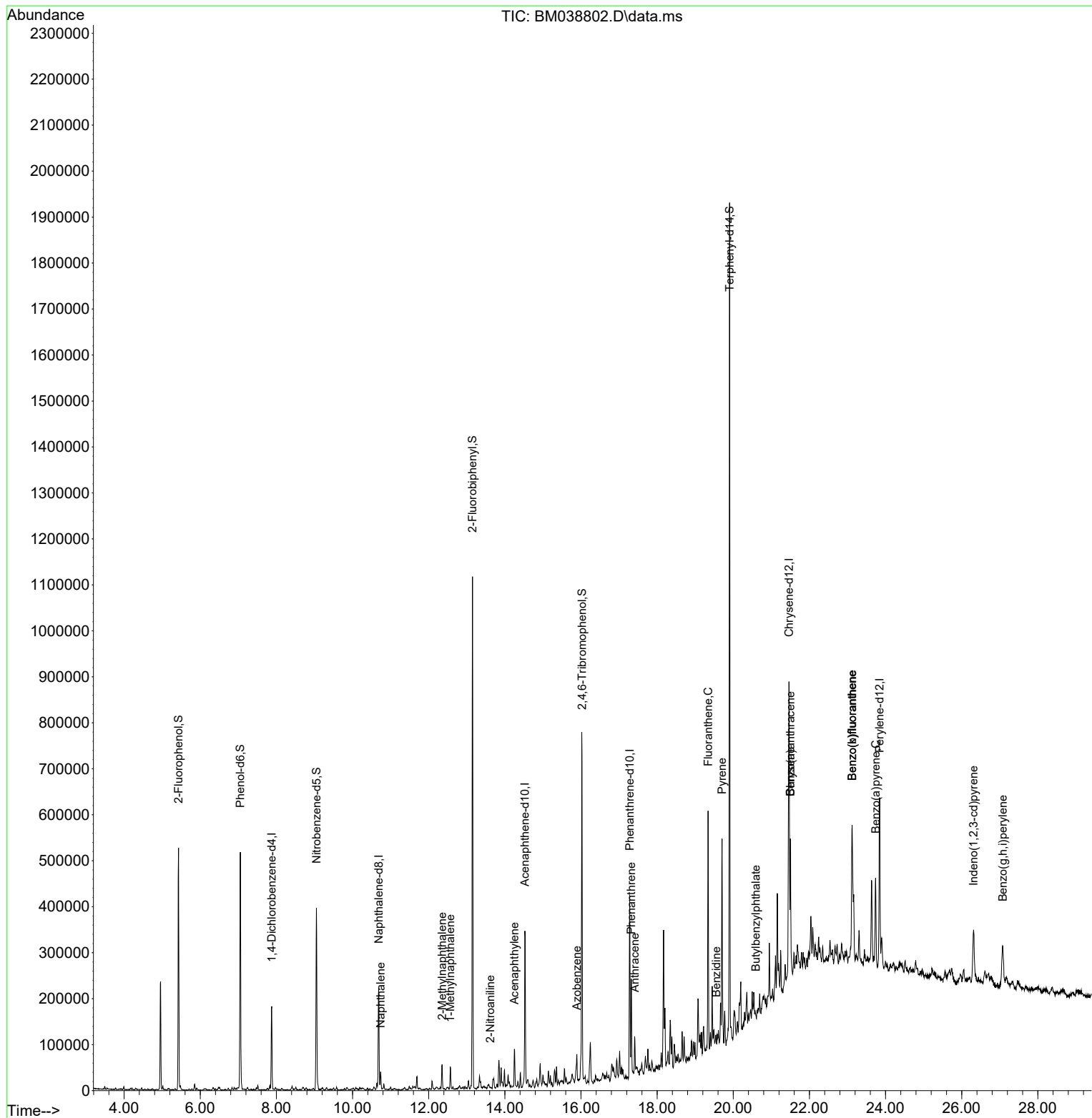
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.875	152	51097	20.000	ng	0.00
21) Naphthalene-d8	10.686	136	181250	20.000	ng	0.00
39) Acenaphthene-d10	14.527	164	108689	20.000	ng	-0.01
64) Phenanthrene-d10	17.280	188	210042	20.000	ng	# 0.00
76) Chrysene-d12	21.462	240	198183	20.000	ng	0.00
86) Perylene-d12	23.844	264	241934	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.428	112	231197	88.634	ng	0.00
7) Phenol-d6	7.051	99	287145	96.519	ng	0.00
23) Nitrobenzene-d5	9.051	82	210094	65.840	ng	0.00
42) 2,4,6-Tribromophenol	16.027	330	120189	81.356	ng	0.00
45) 2-Fluorobiphenyl	13.151	172	514027	60.209	ng	0.00
79) Terphenyl-d14	19.903	244	679642	60.517	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	10.739	128	28642	3.079	ng	99
37) 2-Methylnaphthalene	12.351	142	24321	3.236	ng	98
38) 1-Methylnaphthalene	12.569	142	21283	3.005	ng	98
48) 2-Nitroaniline	13.622	65	134	2.254	ng	# 1
49) Acenaphthylene	14.251	152	53604	5.023	ng	97
63) Azobenzene	15.892	77	14701	2.274	ng	# 1
71) Phenanthrene	17.321	178	116152	9.313	ng	99
72) Anthracene	17.410	178	50448	3.954	ng	96
75) Fluoranthene	19.339	202	247227	18.880	ng	98
77) Benzidine	19.556	184	471	3.188	ng	# 1
78) Pyrene	19.703	202	236590	15.506	ng	98
80) Butylbenzylphthalate	20.598	149	906	2.059	ng	# 50
81) Benzo(a)anthracene	21.503	228	160440	11.445	ng	93
83) Chrysene	21.503	228	160440	11.878	ng	96
87) Indeno(1,2,3-cd)pyrene	26.309	276	110631	5.805	ng	98
88) Benzo(b)fluoranthene	23.121	252	227757	15.717	ng	96
89) Benzo(k)fluoranthene	23.121	252	227757	15.478	ng	96
90) Benzo(a)pyrene	23.739	252	126158	8.804	ng	99
92) Benzo(g,h,i)perylene	27.079	276	102383	6.317	ng	98

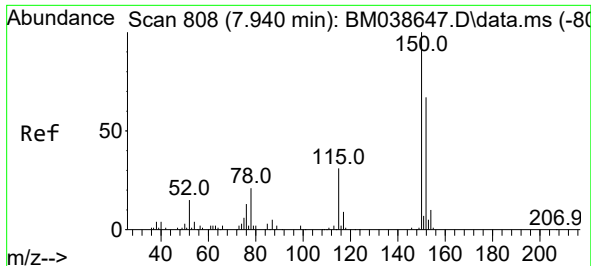
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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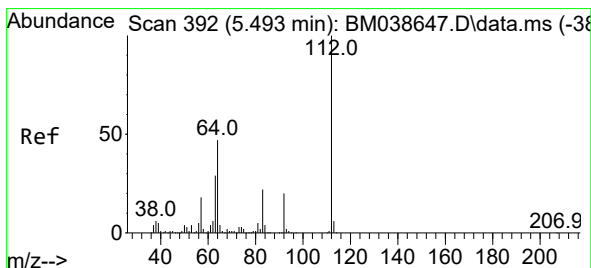
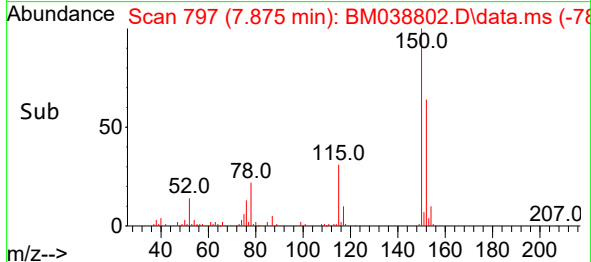
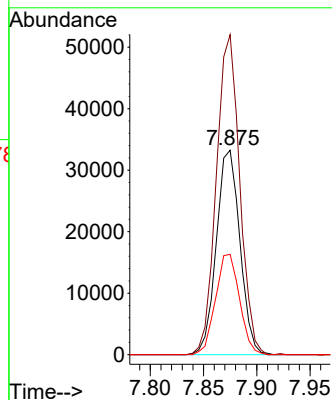
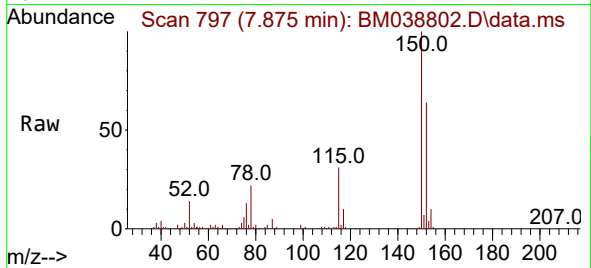




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.875 min Scan# 71
Delta R.T. -0.006 min
Lab File: BM038802.D
Acq: 21 Feb 2023 00:33

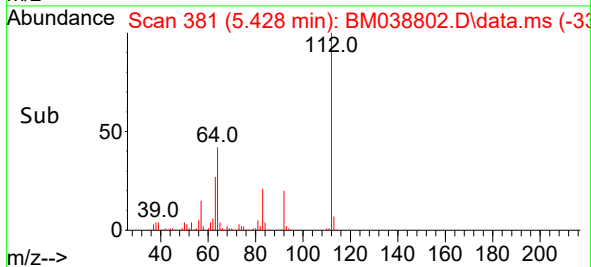
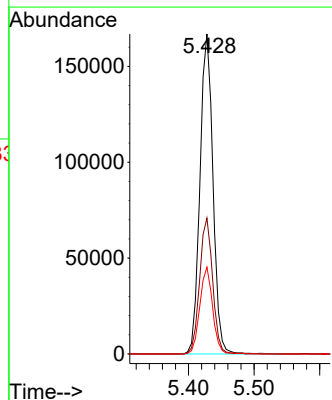
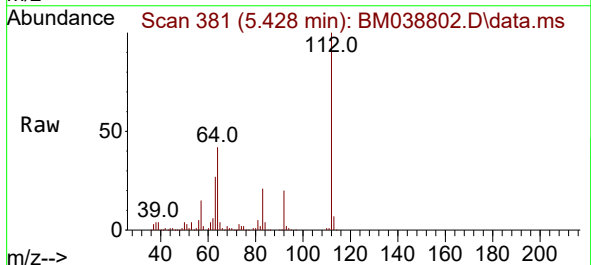
Instrument :
BNA_M
ClientSampleId :
B-13-SB03

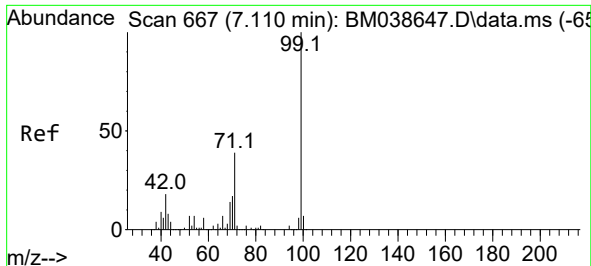
Tgt Ion:152 Resp: 51097
Ion Ratio Lower Upper
152 100
150 156.5 119.5 179.3
115 49.1 37.6 56.4



#5
2-Fluorophenol
Concen: 88.634 ng
RT: 5.428 min Scan# 381
Delta R.T. -0.006 min
Lab File: BM038802.D
Acq: 21 Feb 2023 00:33

Tgt Ion:112 Resp: 231197
Ion Ratio Lower Upper
112 100
64 42.4 37.9 56.9
63 27.2 23.3 34.9

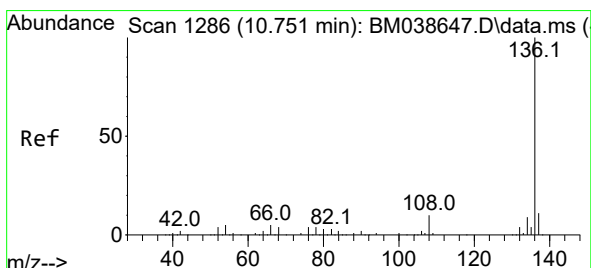
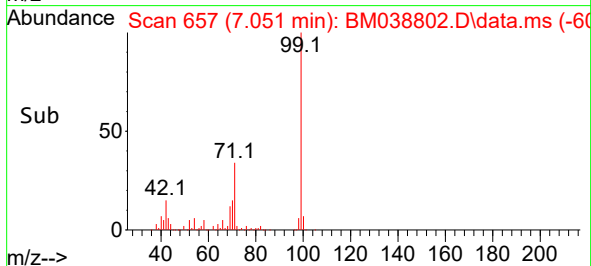
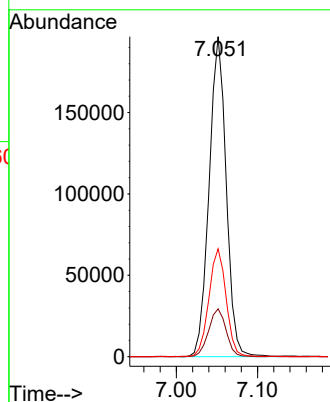
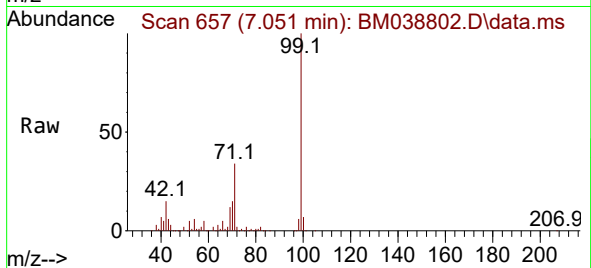




#7
Phenol-d6
Concen: 96.519 ng
RT: 7.051 min Scan# 61
Delta R.T. -0.006 min
Lab File: BM038802.D
Acq: 21 Feb 2023 00:33

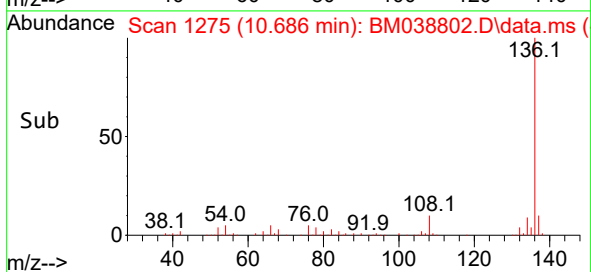
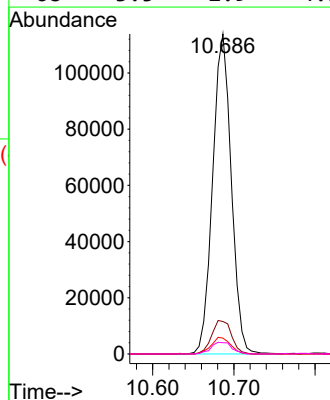
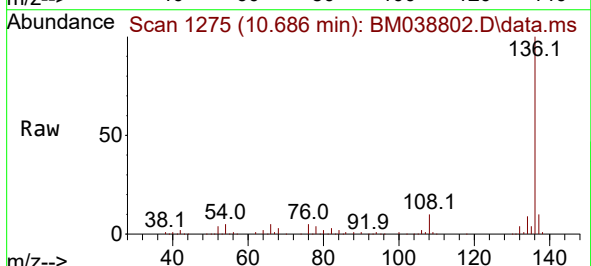
Instrument :
BNA_M
ClientSampleId :
B-13-SB03

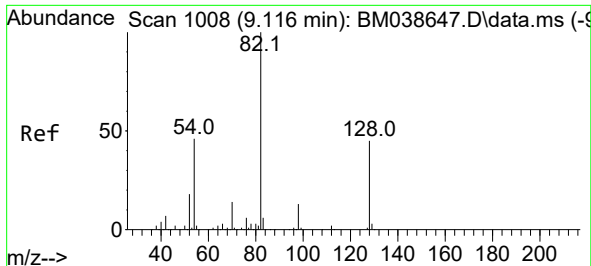
Tgt Ion: 99 Resp: 287145
Ion Ratio Lower Upper
99 100
42 14.9 14.6 22.0
71 33.7 31.0 46.4



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.686 min Scan# 1275
Delta R.T. -0.006 min
Lab File: BM038802.D
Acq: 21 Feb 2023 00:33

Tgt Ion: 136 Resp: 181250
Ion Ratio Lower Upper
136 100
137 10.2 8.8 13.2
54 5.0 4.2 6.4
68 3.5 2.9 4.3

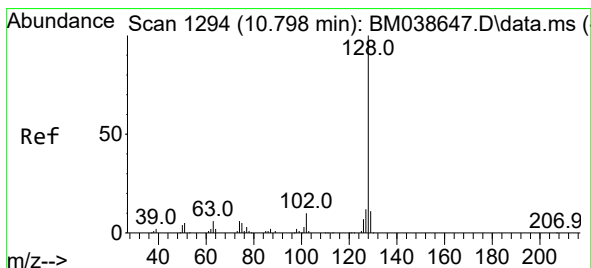
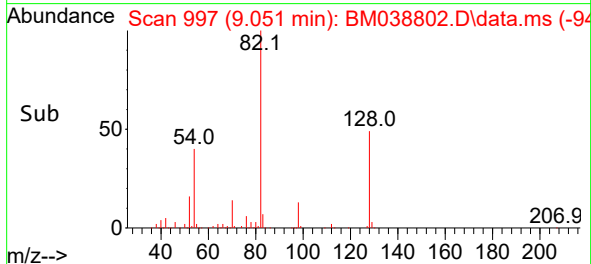
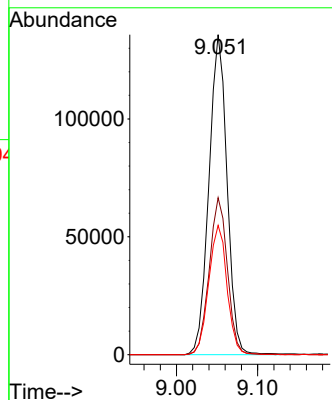
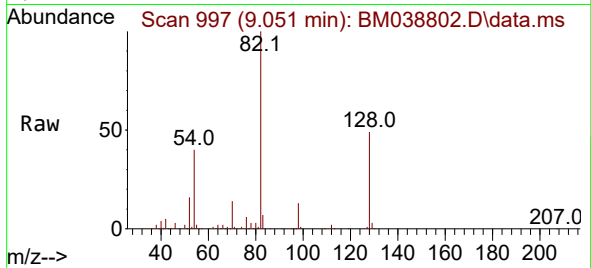




#23
Nitrobenzene-d5
Concen: 65.840 ng
RT: 9.051 min Scan# 91
Delta R.T. -0.006 min
Lab File: BM038802.D
Acq: 21 Feb 2023 00:33

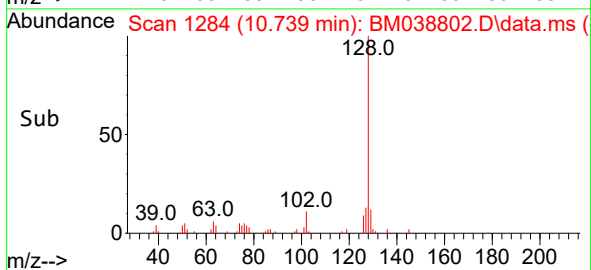
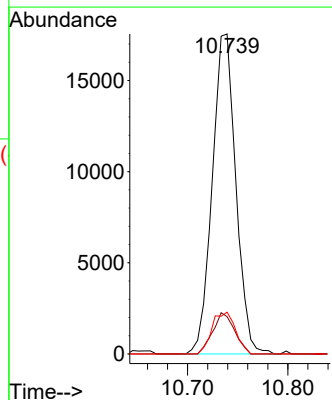
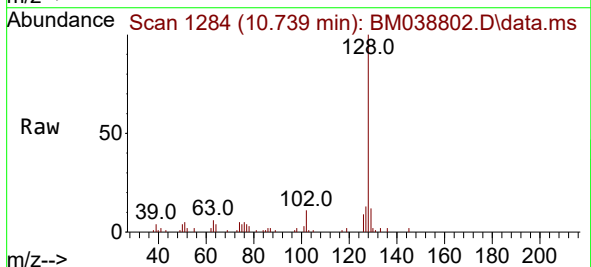
Instrument :
BNA_M
ClientSampleId :
B-13-SB03

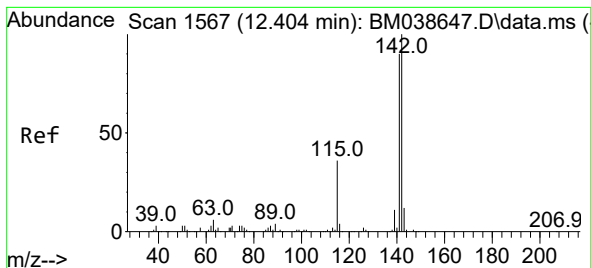
Tgt Ion: 82 Resp: 210094
Ion Ratio Lower Upper
82 100
128 49.1 36.0 54.0
54 40.4 36.8 55.2



#31
Naphthalene
Concen: 3.079 ng
RT: 10.739 min Scan# 1284
Delta R.T. -0.006 min
Lab File: BM038802.D
Acq: 21 Feb 2023 00:33

Tgt Ion: 128 Resp: 28642
Ion Ratio Lower Upper
128 100
129 11.7 9.1 13.7
127 13.1 9.9 14.9





#37

2-Methylnaphthalene

Concen: 3.236 ng

RT: 12.351 min Scan# 1

Delta R.T. -0.006 min

Lab File: BM038802.D

Acq: 21 Feb 2023 00:33

Instrument :

BNA_M

ClientSampleId :

B-13-SB03

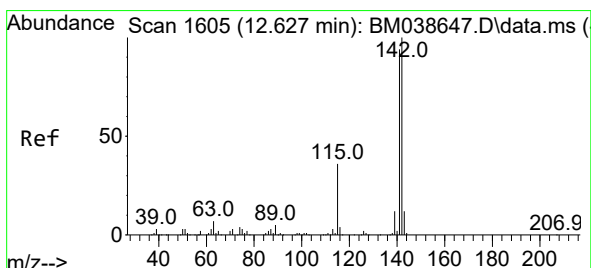
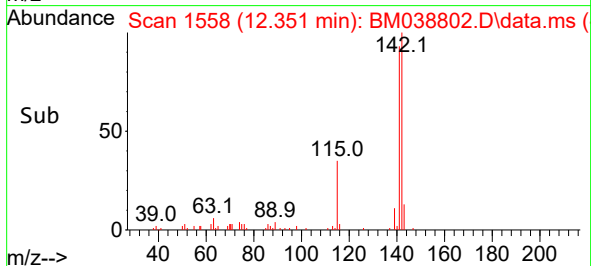
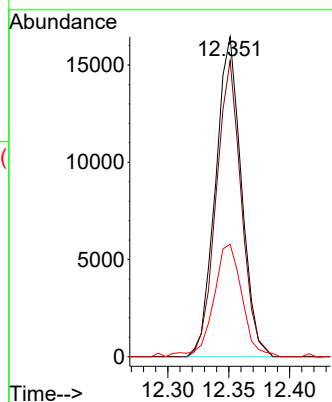
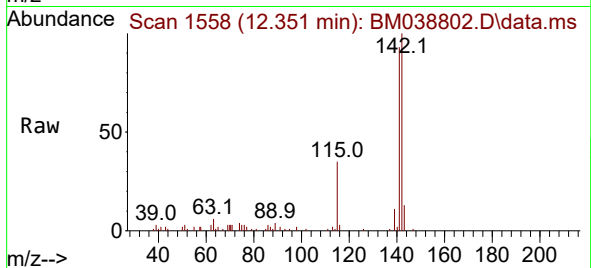
Tgt Ion:142 Resp: 24321

Ion Ratio Lower Upper

142 100

141 92.5 71.8 107.8

115 35.2 28.7 43.1



#38

1-Methylnaphthalene

Concen: 3.005 ng

RT: 12.569 min Scan# 1595

Delta R.T. -0.006 min

Lab File: BM038802.D

Acq: 21 Feb 2023 00:33

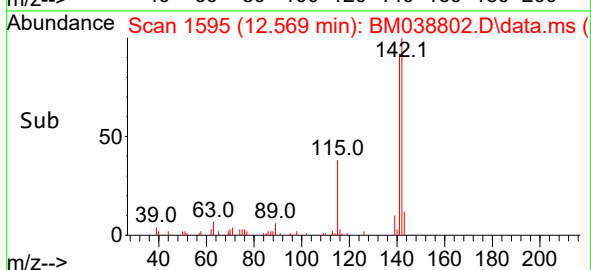
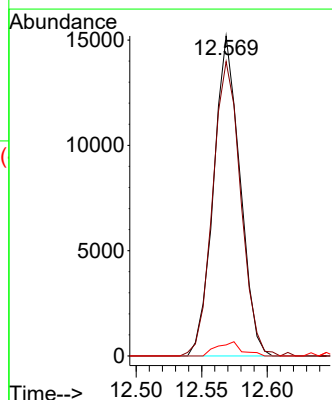
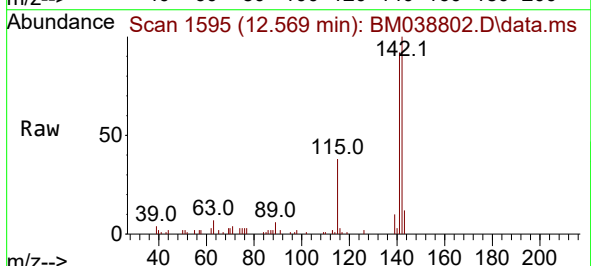
Tgt Ion:142 Resp: 21283

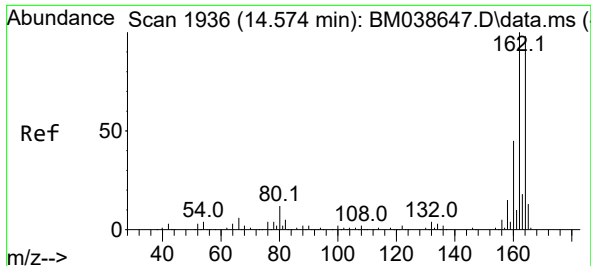
Ion Ratio Lower Upper

142 100

141 92.0 75.5 113.3

116 3.5 3.1 4.7

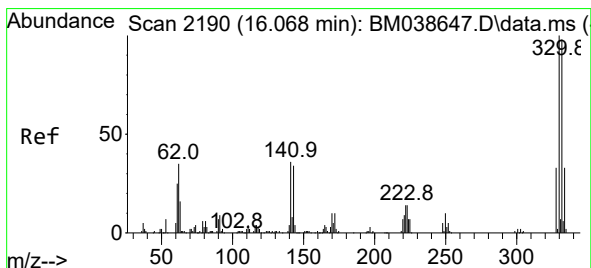
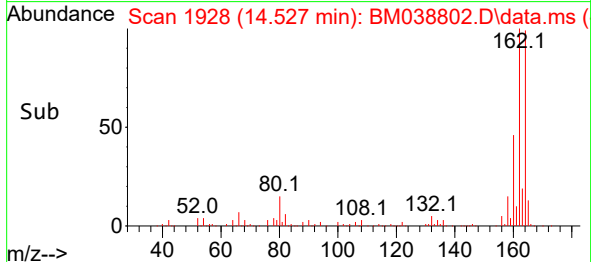
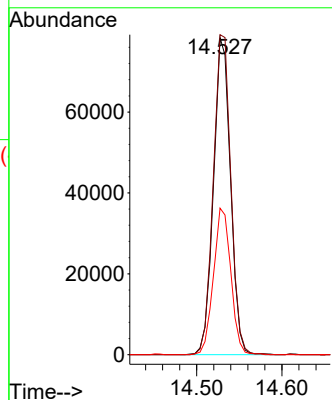
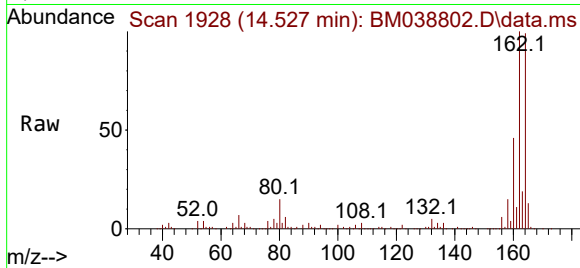




#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.527 min Scan# 1936
Delta R.T. -0.012 min
Lab File: BM038802.D
Acq: 21 Feb 2023 00:33

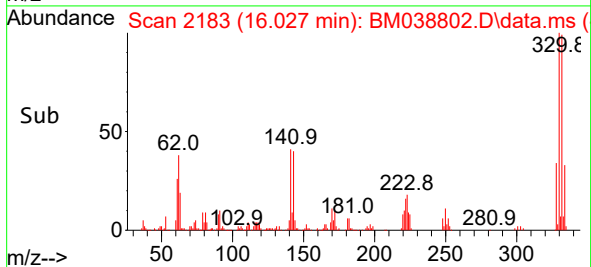
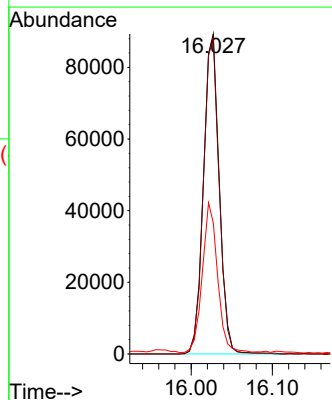
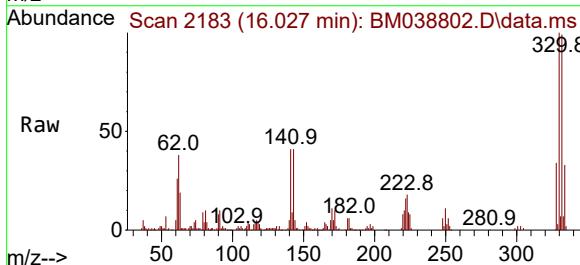
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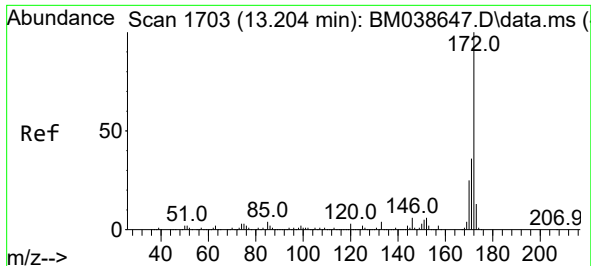
Tgt Ion:164 Resp: 108689
Ion Ratio Lower Upper
164 100
162 100.9 81.4 122.0
160 46.2 36.5 54.7



#42
2,4,6-Tribromophenol
Concen: 81.356 ng
RT: 16.027 min Scan# 2183
Delta R.T. -0.006 min
Lab File: BM038802.D
Acq: 21 Feb 2023 00:33

Tgt Ion:330 Resp: 120189
Ion Ratio Lower Upper
330 100
332 98.6 77.8 116.6
141 45.1 31.0 46.6

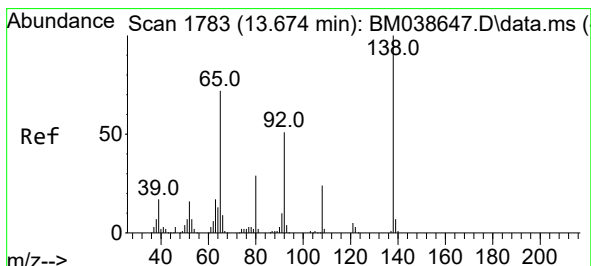
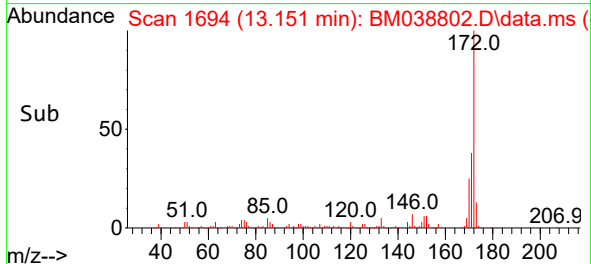
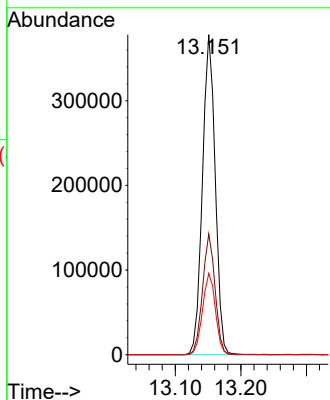
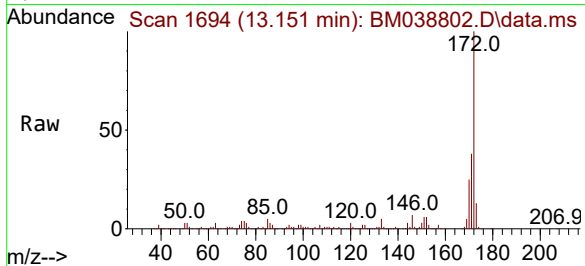




#45
2-Fluorobiphenyl
Concen: 60.209 ng
RT: 13.151 min Scan# 1
Delta R.T. -0.006 min
Lab File: BM038802.D
Acq: 21 Feb 2023 00:33

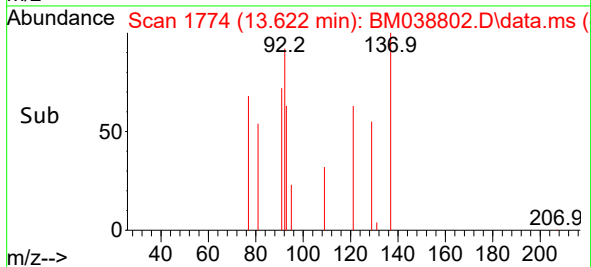
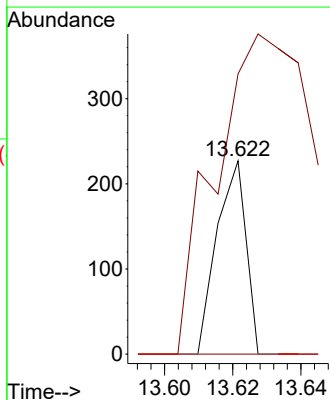
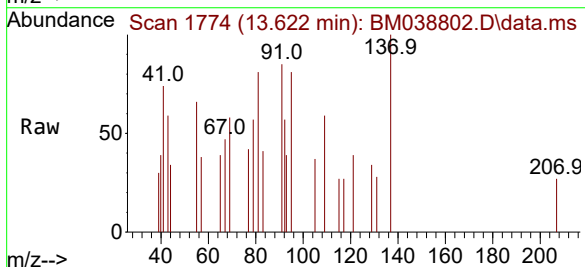
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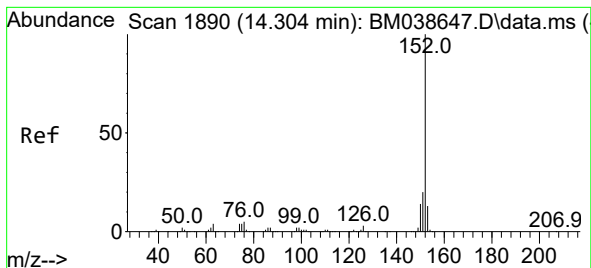
Tgt Ion:172 Resp: 514027
Ion Ratio Lower Upper
172 100
171 37.7 28.7 43.1
170 25.4 20.0 30.0



#48
2-Nitroaniline
Concen: 2.254 ng
RT: 13.622 min Scan# 1774
Delta R.T. -0.012 min
Lab File: BM038802.D
Acq: 21 Feb 2023 00:33

Tgt Ion: 65 Resp: 134
Ion Ratio Lower Upper
65 100
92 144.9 55.9 83.9#
138 0.0 110.6 166.0#





#49

Acenaphthylene

Concen: 5.023 ng

RT: 14.251 min Scan# 1

Delta R.T. -0.012 min

Lab File: BM038802.D

Acq: 21 Feb 2023 00:33

Instrument :

BNA_M

ClientSampleId :

B-13-SB03

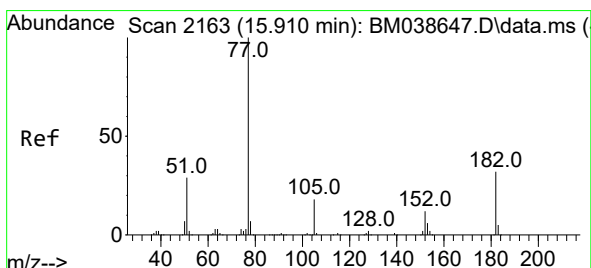
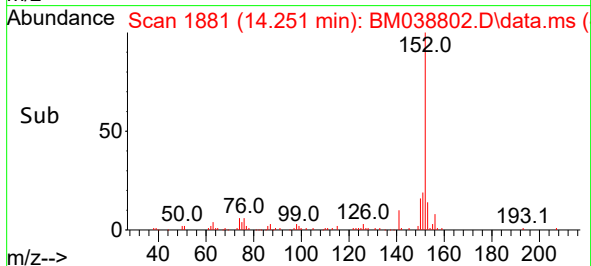
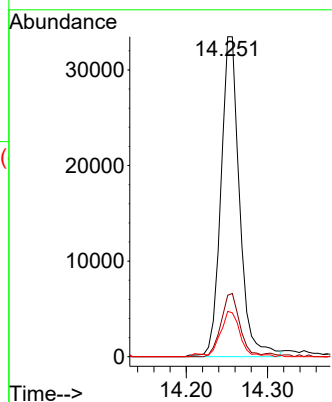
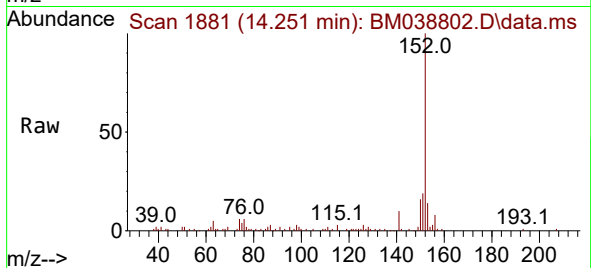
Tgt Ion:152 Resp: 53604

Ion Ratio Lower Upper

152 100

151 19.2 16.1 24.1

153 14.1 10.0 15.0



#63

Azobenzene

Concen: 2.274 ng

RT: 15.892 min Scan# 2160

Delta R.T. 0.018 min

Lab File: BM038802.D

Acq: 21 Feb 2023 00:33

Tgt Ion: 77 Resp: 14701

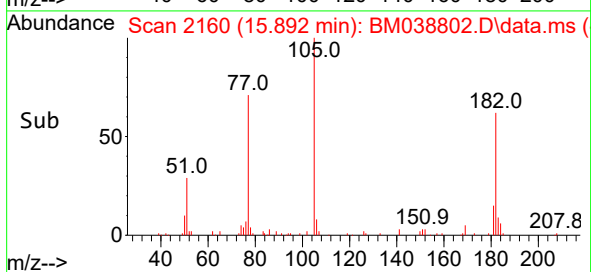
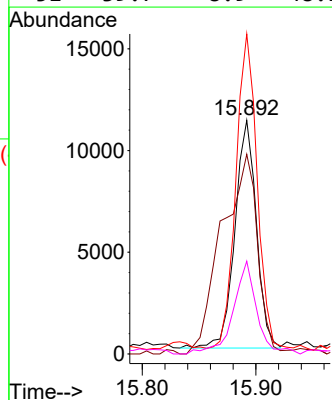
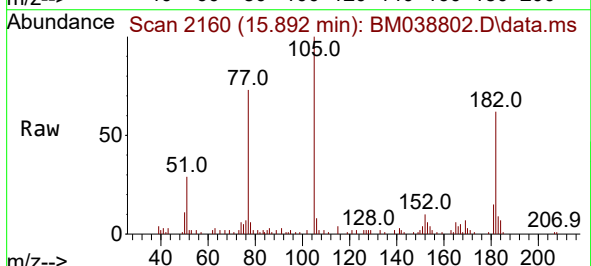
Ion Ratio Lower Upper

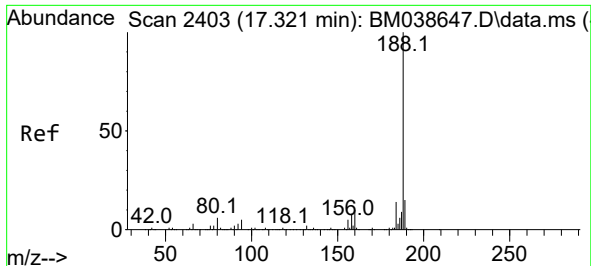
77 100

182 85.5 12.0 52.0#

105 137.0 0.0 37.5#

51 39.7 8.9 48.9

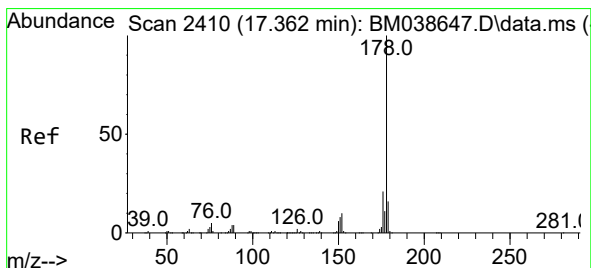
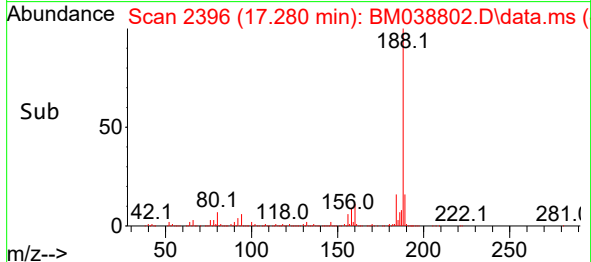
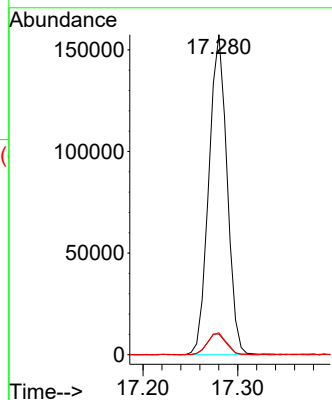
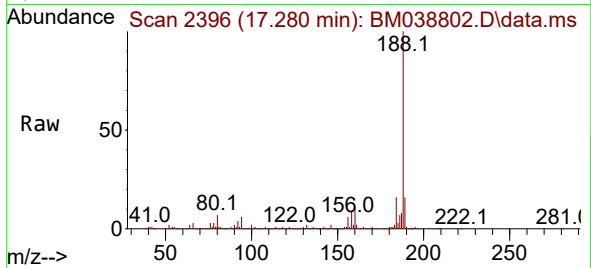




#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.280 min Scan# 21
Delta R.T. -0.006 min
Lab File: BM038802.D
Acq: 21 Feb 2023 00:33

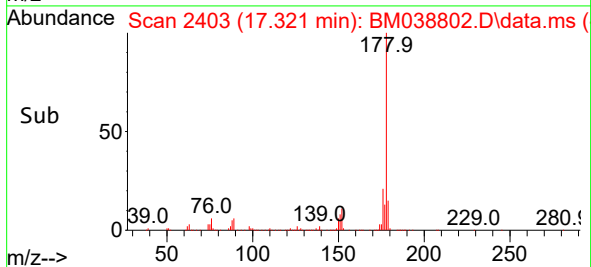
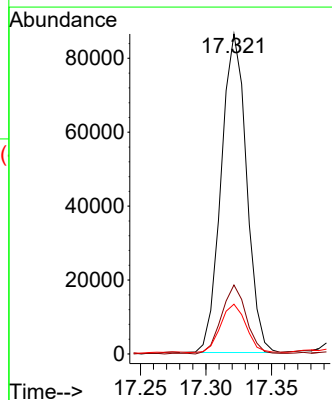
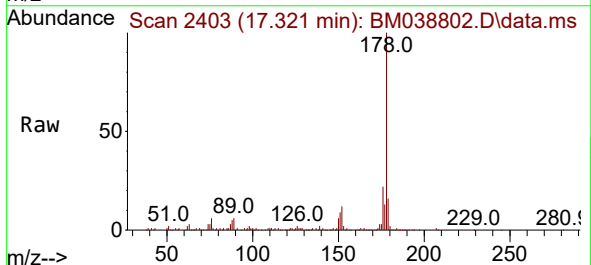
Instrument :
BNA_M
ClientSampleId :
B-13-SB03

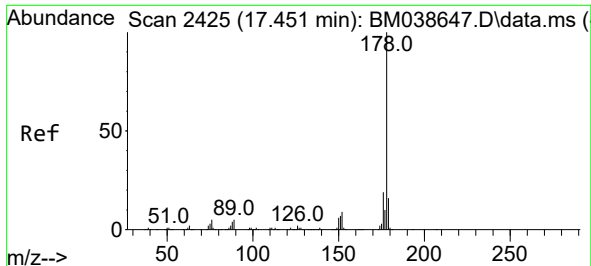
Tgt Ion:188 Resp: 210042
Ion Ratio Lower Upper
188 100
94 6.5 4.2 6.4#
80 6.8 4.6 7.0



#71
Phenanthrene
Concen: 9.313 ng
RT: 17.321 min Scan# 2403
Delta R.T. -0.006 min
Lab File: BM038802.D
Acq: 21 Feb 2023 00:33

Tgt Ion:178 Resp: 116152
Ion Ratio Lower Upper
178 100
176 21.6 16.7 25.1
179 15.5 12.5 18.7

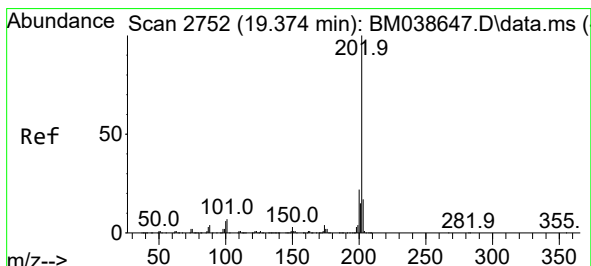
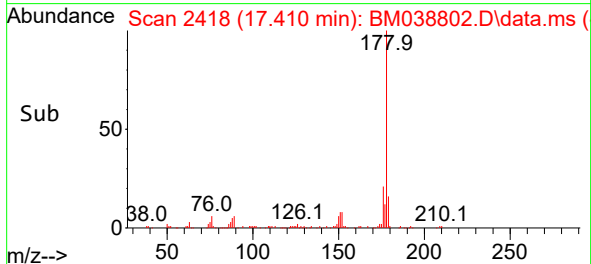
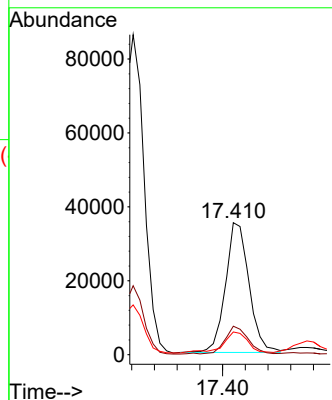
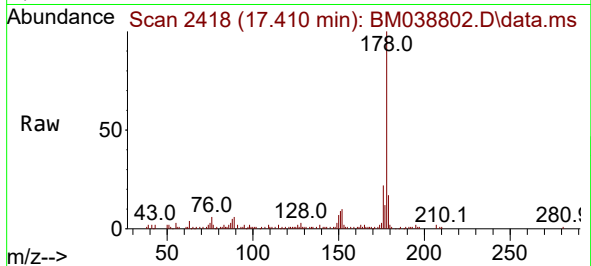




#72
 Anthracene
 Concen: 3.954 ng
 RT: 17.410 min Scan# 24
 Delta R.T. -0.012 min
 Lab File: BM038802.D
 Acq: 21 Feb 2023 00:33

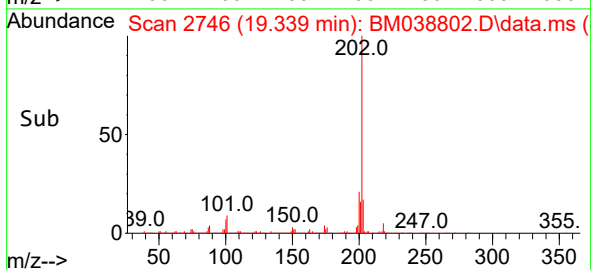
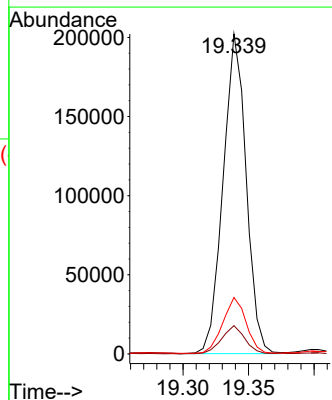
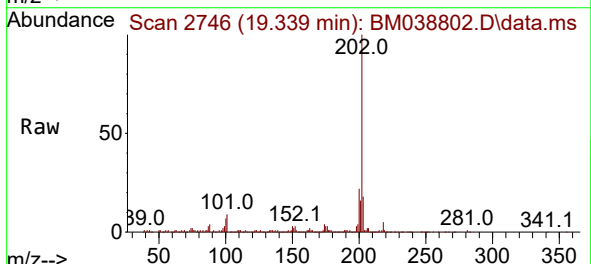
Instrument :
 BNA_M
 ClientSampleId :
 B-13-SB03

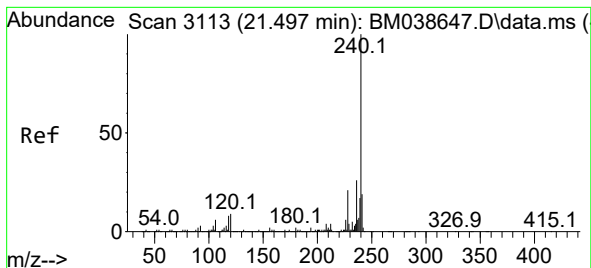
Tgt Ion:178 Resp: 50448
 Ion Ratio Lower Upper
 178 100
 176 21.6 15.6 23.4
 179 17.2 12.4 18.6



#75
 Fluoranthene
 Concen: 18.880 ng
 RT: 19.339 min Scan# 2746
 Delta R.T. -0.006 min
 Lab File: BM038802.D
 Acq: 21 Feb 2023 00:33

Tgt Ion:202 Resp: 247227
 Ion Ratio Lower Upper
 202 100
 101 8.9 0.0 27.4
 203 17.7 0.0 37.3





#76

Chrysene-d12

Concen: 20.000 ng

RT: 21.462 min Scan# 3113

Delta R.T. -0.006 min

Lab File: BM038802.D

Acq: 21 Feb 2023 00:33

Instrument :

BNA_M

ClientSampleId :

B-13-SB03

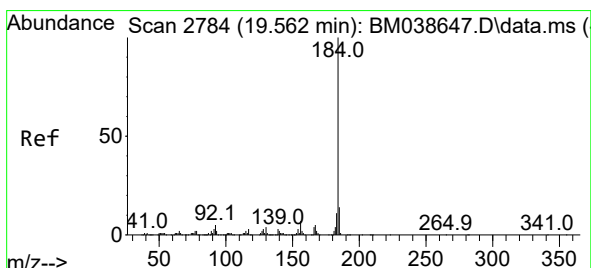
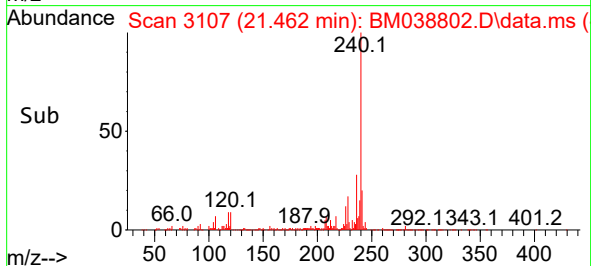
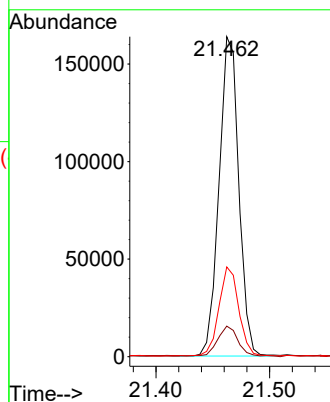
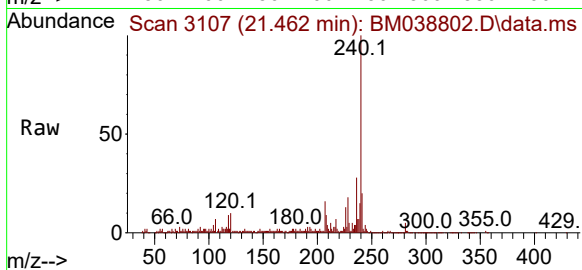
Tgt Ion:240 Resp: 198183

Ion Ratio Lower Upper

240 100

120 9.5 7.0 10.4

236 28.1 20.9 31.3



#77

Benzidine

Concen: 3.188 ng

RT: 19.556 min Scan# 2783

Delta R.T. 0.018 min

Lab File: BM038802.D

Acq: 21 Feb 2023 00:33

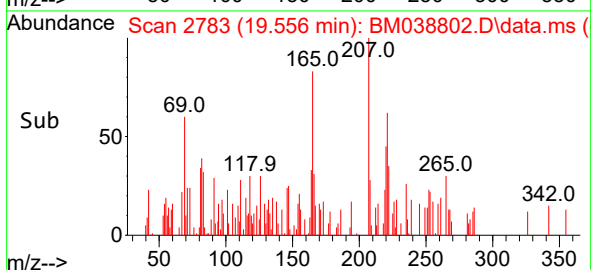
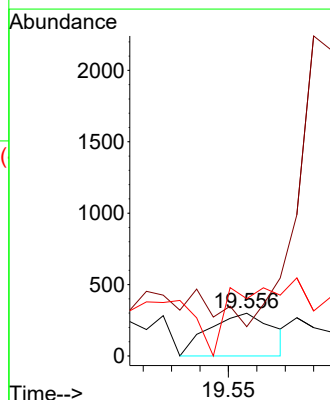
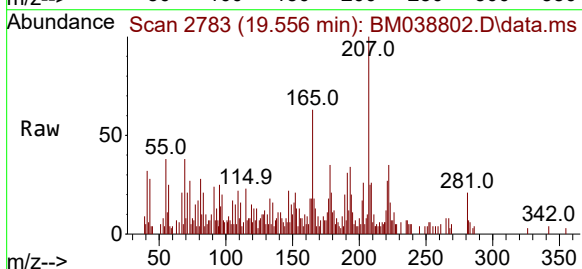
Tgt Ion:184 Resp: 471

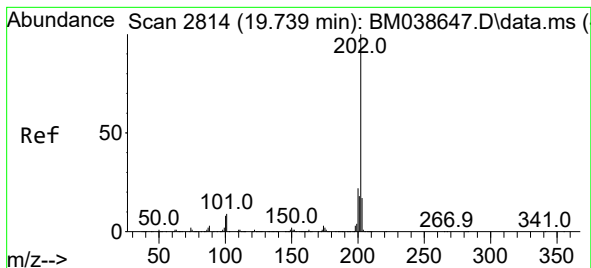
Ion Ratio Lower Upper

184 100

185 68.6 10.8 16.2#

183 134.1 8.8 13.2#





#78

Pyrene

Concen: 15.506 ng

RT: 19.703 min Scan# 21

Delta R.T. -0.006 min

Lab File: BM038802.D

Acq: 21 Feb 2023 00:33

Instrument :

BNA_M

ClientSampleId :

B-13-SB03

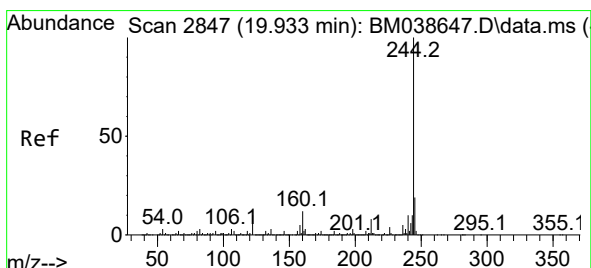
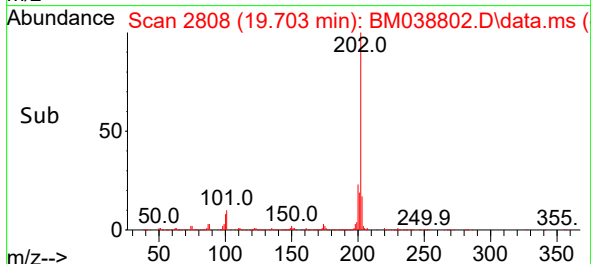
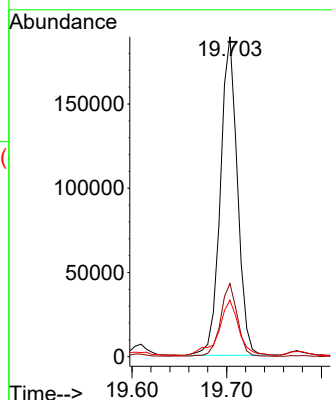
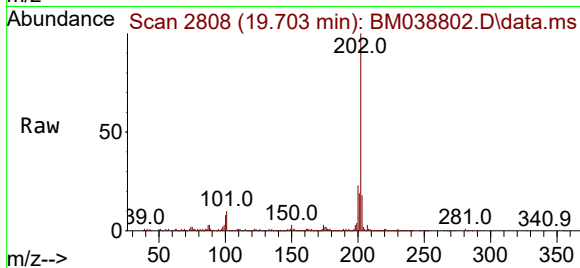
Tgt Ion:202 Resp: 236590

Ion Ratio Lower Upper

202 100

200 22.9 17.8 26.6

203 17.6 13.5 20.3



#79

Terphenyl-d14

Concen: 60.517 ng

RT: 19.903 min Scan# 2842

Delta R.T. -0.006 min

Lab File: BM038802.D

Acq: 21 Feb 2023 00:33

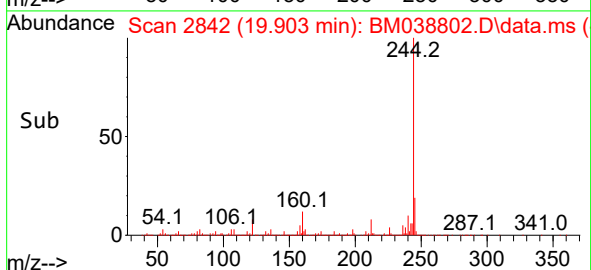
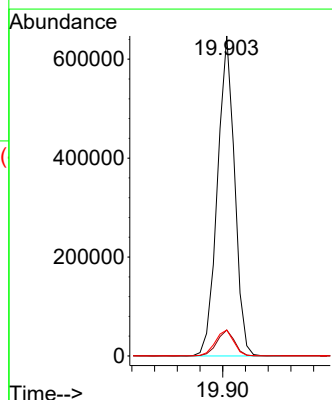
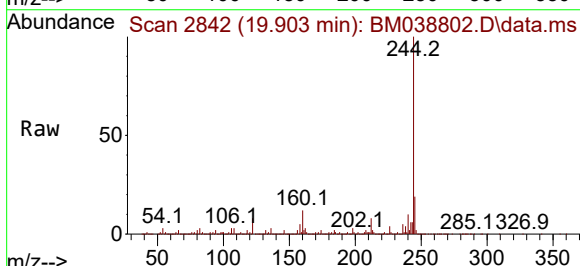
Tgt Ion:244 Resp: 679642

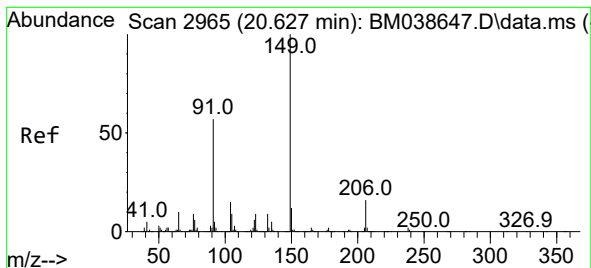
Ion Ratio Lower Upper

244 100

212 8.1 6.6 9.8

122 8.1 7.8 11.8





#80

Butylbenzylphthalate

Concen: 2.059 ng

RT: 20.598 min Scan# 2965

Delta R.T. -0.006 min

Lab File: BM038802.D

Acq: 21 Feb 2023 00:33

Instrument :

BNA_M

ClientSampleId :

B-13-SB03

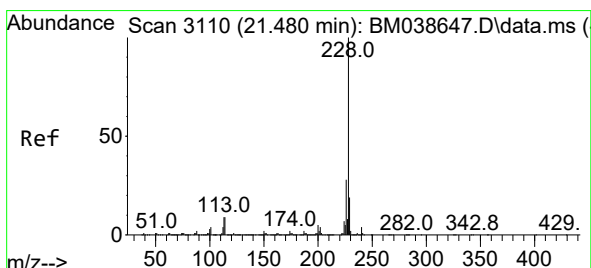
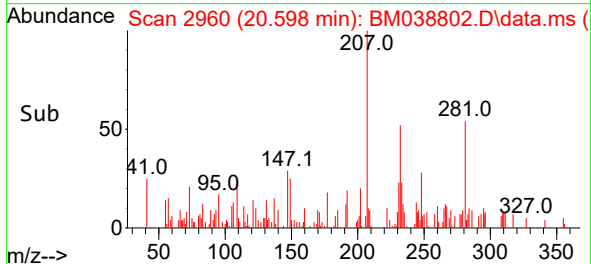
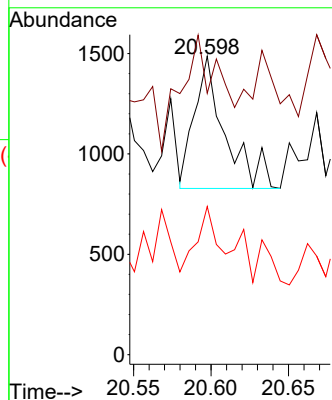
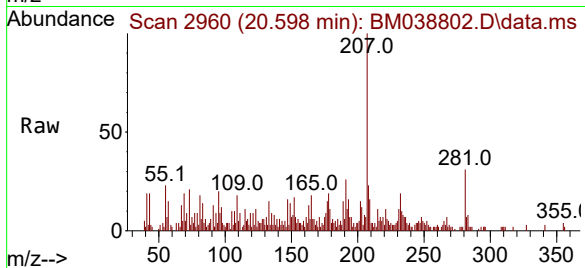
Tgt Ion:149 Resp: 906

Ion Ratio Lower Upper

149 100

91 87.6 45.6 68.4#

206 49.6 12.5 18.7#



#81

Benzo(a)anthracene

Concen: 11.445 ng

RT: 21.503 min Scan# 3114

Delta R.T. 0.047 min

Lab File: BM038802.D

Acq: 21 Feb 2023 00:33

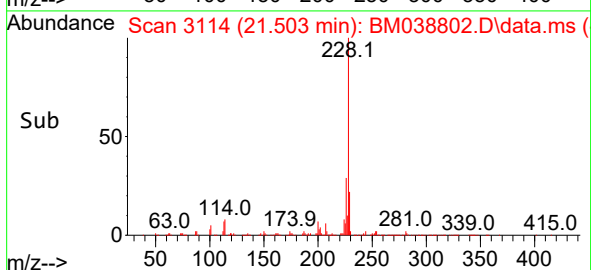
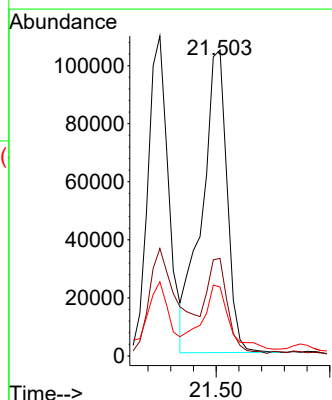
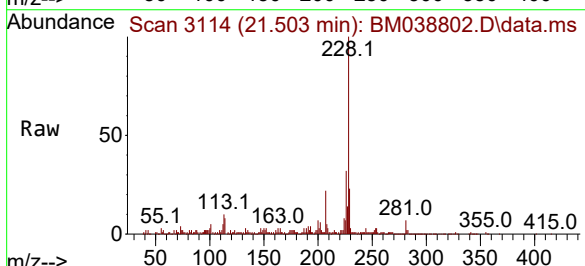
Tgt Ion:228 Resp: 160440

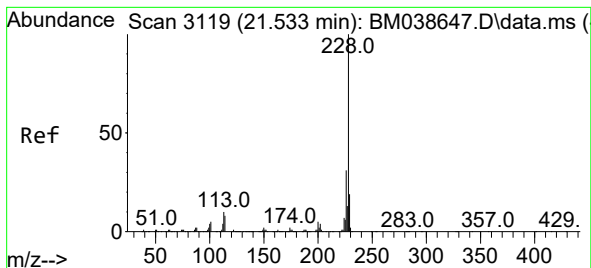
Ion Ratio Lower Upper

228 100

226 31.9 22.2 33.4

229 22.5 15.5 23.3





#83

Chrysene

Concen: 11.878 ng

RT: 21.503 min Scan# 3114

Delta R.T. -0.006 min

Lab File: BM038802.D

Acq: 21 Feb 2023 00:33

Instrument :

BNA_M

ClientSampleId :

B-13-SB03

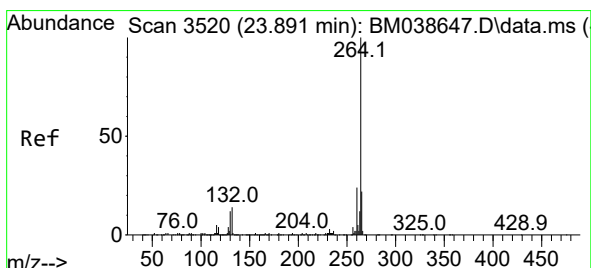
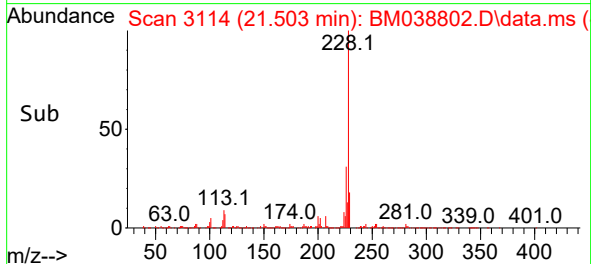
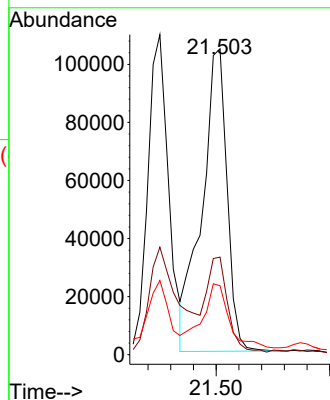
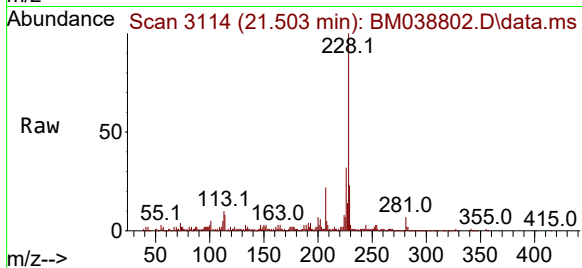
Tgt Ion:228 Resp: 160440

Ion Ratio Lower Upper

228 100

226 31.9 24.7 37.1

229 22.5 15.5 23.3



#86

Perylene-d12

Concen: 20.000 ng

RT: 23.844 min Scan# 3512

Delta R.T. -0.006 min

Lab File: BM038802.D

Acq: 21 Feb 2023 00:33

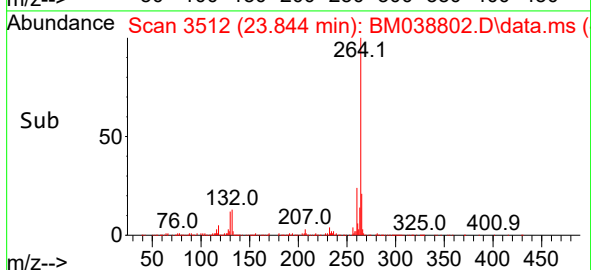
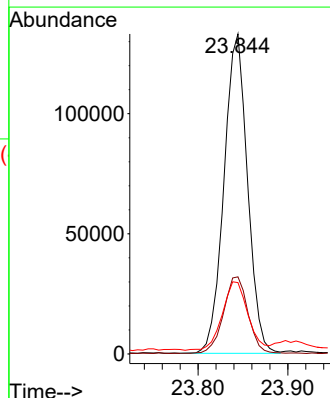
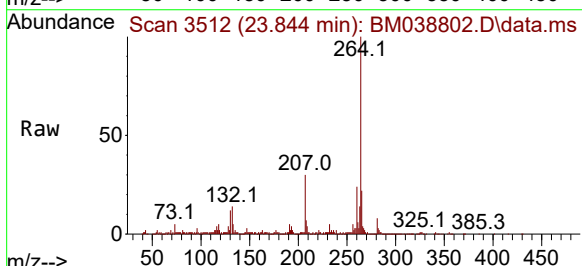
Tgt Ion:264 Resp: 241934

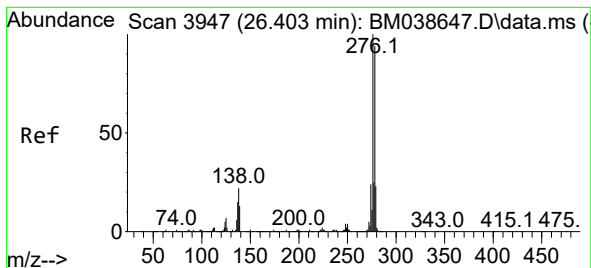
Ion Ratio Lower Upper

264 100

260 24.1 19.6 29.4

265 22.3 17.9 26.9





#87

Indeno(1,2,3-cd)pyrene

Concen: 5.805 ng

RT: 26.309 min Scan# 3931

Delta R.T. -0.023 min

Lab File: BM038802.D

Acq: 21 Feb 2023 00:33

Instrument :

BNA_M

ClientSampleId :

B-13-SB03

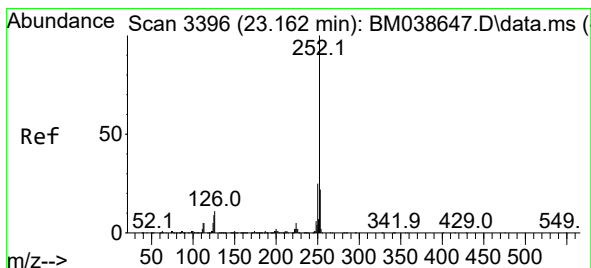
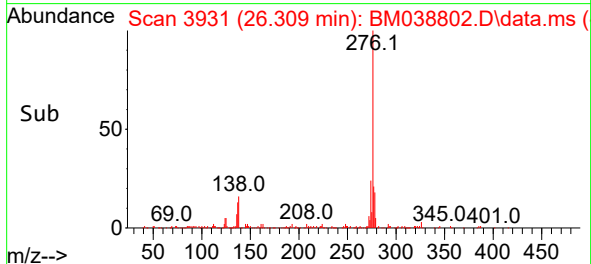
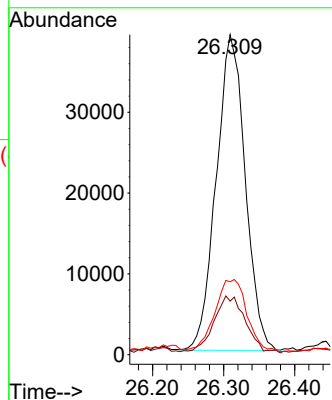
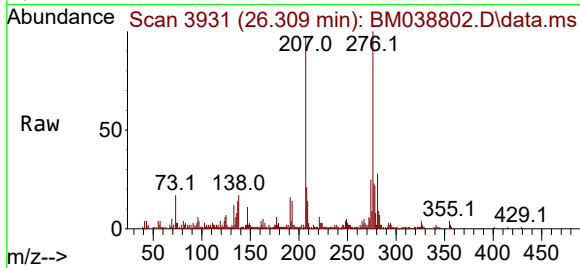
Tgt Ion:276 Resp: 110631

Ion Ratio Lower Upper

276 100

138 19.9 17.2 25.8

277 25.3 20.2 30.4



#88

Benzo(b)fluoranthene

Concen: 15.717 ng

RT: 23.121 min Scan# 3389

Delta R.T. -0.006 min

Lab File: BM038802.D

Acq: 21 Feb 2023 00:33

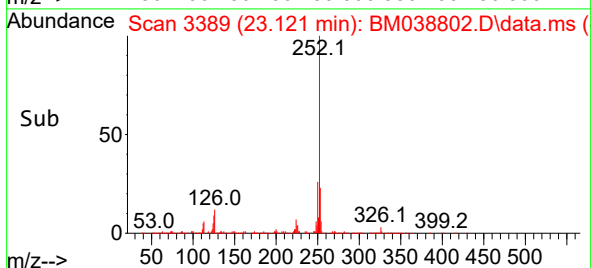
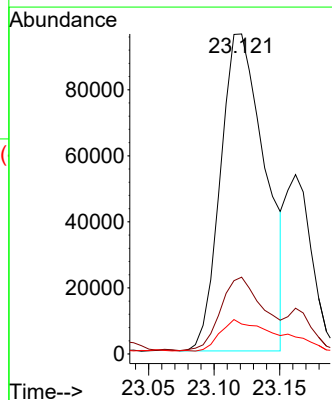
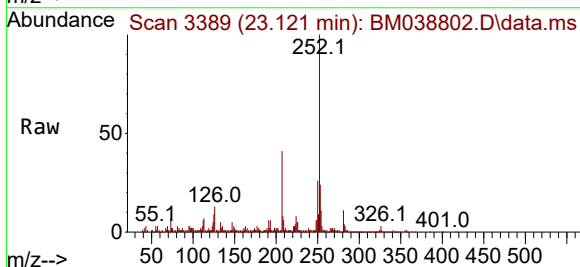
Tgt Ion:252 Resp: 227757

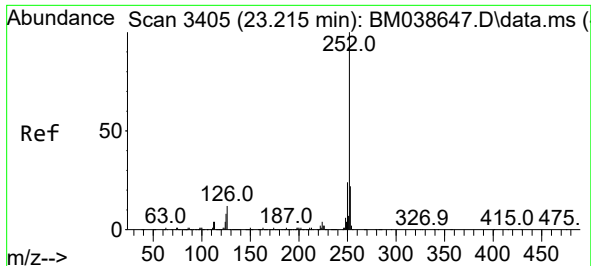
Ion Ratio Lower Upper

252 100

253 24.0 17.4 26.2

125 9.4 7.0 10.6

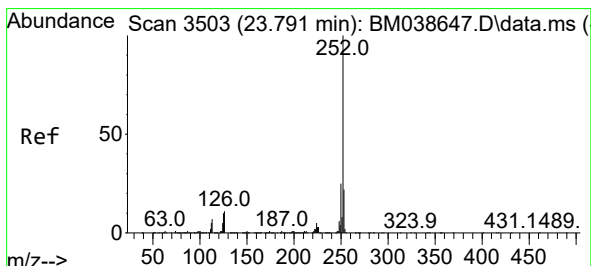
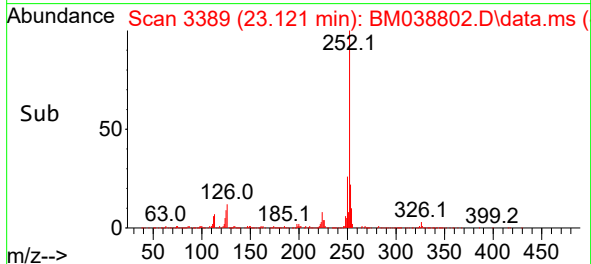
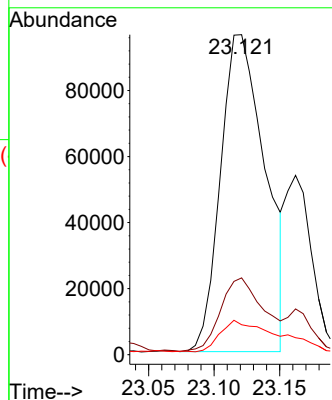
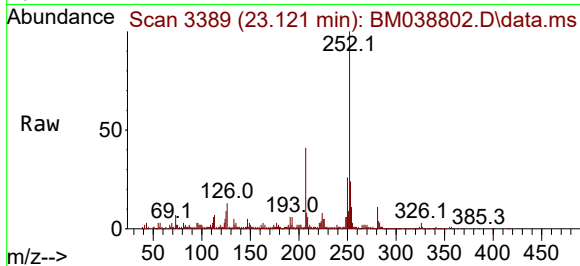




#89
Benzo(k)fluoranthene
Concen: 15.478 ng
RT: 23.121 min Scan# 31
Delta R.T. -0.053 min
Lab File: BM038802.D
Acq: 21 Feb 2023 00:33

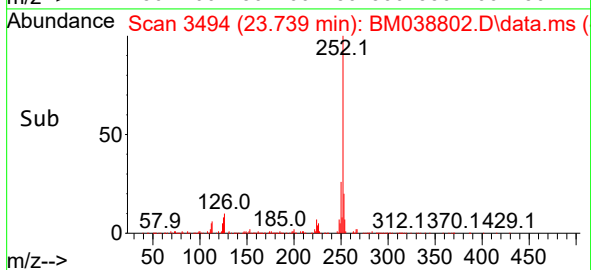
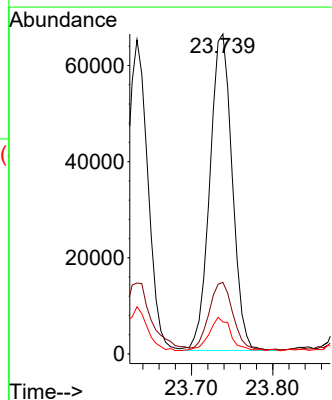
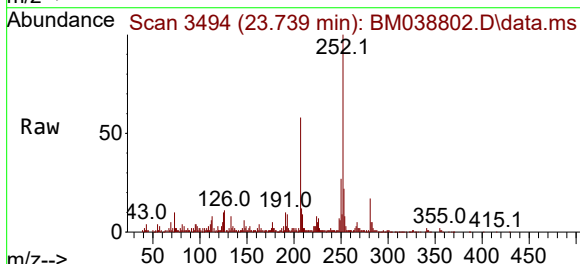
Instrument :
BNA_M
ClientSampleId :
B-13-SB03

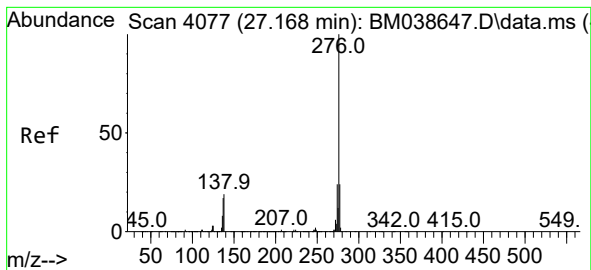
Tgt Ion:252 Resp: 227757
Ion Ratio Lower Upper
252 100
253 24.0 17.4 26.0
125 9.4 6.6 9.8



#90
Benzo(a)pyrene
Concen: 8.804 ng
RT: 23.739 min Scan# 3494
Delta R.T. -0.006 min
Lab File: BM038802.D
Acq: 21 Feb 2023 00:33

Tgt Ion:252 Resp: 126158
Ion Ratio Lower Upper
252 100
253 22.4 17.7 26.5
125 10.0 7.8 11.8





#92
Benzo(g,h,i)perylene
Concen: 6.317 ng
RT: 27.079 min Scan# 40
Delta R.T. -0.017 min
Lab File: BM038802.D
Acq: 21 Feb 2023 00:33

Instrument :
BNA_M
ClientSampleId :
B-13-SB03

Tgt Ion:276 Resp: 102383
Ion Ratio Lower Upper
276 100
277 24.8 19.1 28.7
138 18.3 15.3 22.9

