

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM021623\
 Data File : BM038770.D
 Acq On : 16 Feb 2023 23:11
 Operator : CG/JU
 Sample : 01555-01
 Misc :
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 OR-3-2142023

Quant Time: Feb 17 06:14:01 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM020123.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Feb 17 06:10:11 2023
 Response via : Initial Calibration

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

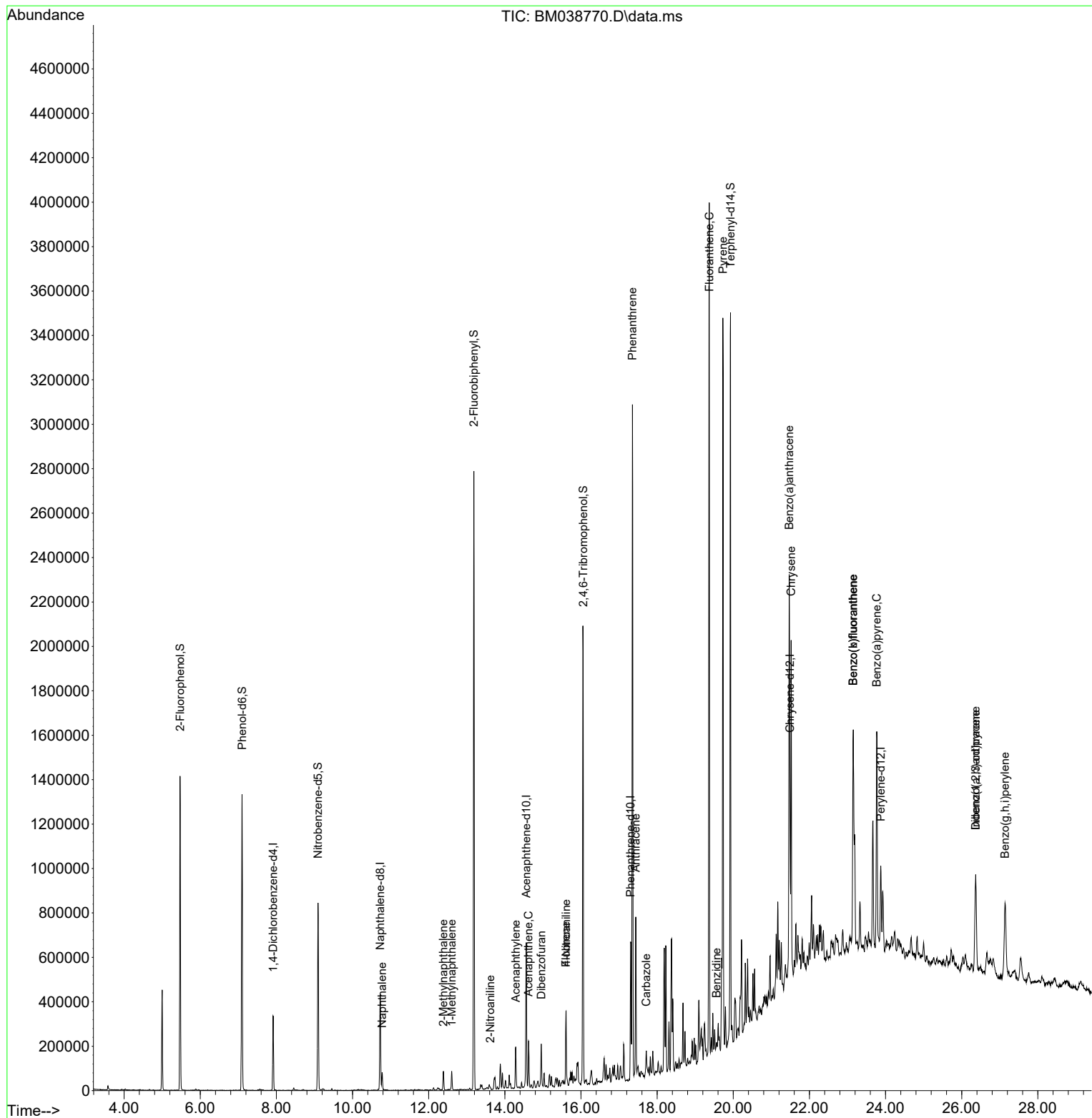
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.916	152	98096	20.000	ng	0.00
21) Naphthalene-d8	10.728	136	366869	20.000	ng	0.00
39) Acenaphthene-d10	14.563	164	222161	20.000	ng	0.00
64) Phenanthrene-d10	17.304	188	370192	20.000	ng	# 0.00
76) Chrysene-d12	21.486	240	244892	20.000	ng	0.00
86) Perylene-d12	23.874	264	257447	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.469	112	632894	126.385	ng	0.00
7) Phenol-d6	7.099	99	773421	135.417	ng	0.01
23) Nitrobenzene-d5	9.093	82	461513	71.454	ng	0.00
42) 2,4,6-Tribromophenol	16.057	330	335972	111.262	ng	0.00
45) 2-Fluorobiphenyl	13.186	172	1299020	74.441	ng	0.00
79) Terphenyl-d14	19.927	244	1351713	97.403	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	10.775	128	62689	3.330	ng	99
37) 2-Methylnaphthalene	12.386	142	38683	2.543	ng	100
38) 1-Methylnaphthalene	12.604	142	37380	2.608	ng	92
48) 2-Nitroaniline	13.622	65	60	2.189	ng	# 1
49) Acenaphthylene	14.286	152	128707	5.901	ng	98
52) Acenaphthene	14.622	154	73444	5.639	ng	98
55) Dibenzofuran	14.957	168	91905	4.098	ng	# 92
58) Fluorene	15.604	166	147448	8.309	ng	99
62) 4-Nitroaniline	15.610	138	1780	2.288	ng	# 24
71) Phenanthrene	17.351	178	1687713	76.781	ng	99
72) Anthracene	17.439	178	428251	19.045	ng	99
73) Carbazole	17.716	167	62156	2.964	ng	95
75) Fluoranthene	19.368	202	1985942	86.050	ng	98
77) Benzidine	19.562	184	182	3.137	ng	# 1
78) Pyrene	19.727	202	1828001	96.954	ng	98
81) Benzo(a)anthracene	21.468	228	777777	44.899	ng	97
83) Chrysene	21.521	228	645897	38.698	ng	97
87) Indeno(1,2,3-cd)pyrene	26.368	276	404013	19.924	ng	96
88) Benzo(b)fluoranthene	23.150	252	838464	54.375	ng	98
89) Benzo(k)fluoranthene	23.150	252	838464	53.547	ng	98
90) Benzo(a)pyrene	23.768	252	639077	41.909	ng	97
91) Dibenzo(a,h)anthracene	26.368	278	109528	6.420	ng	# 91
92) Benzo(g,h,i)perylene	27.138	276	401029	23.254	ng	99

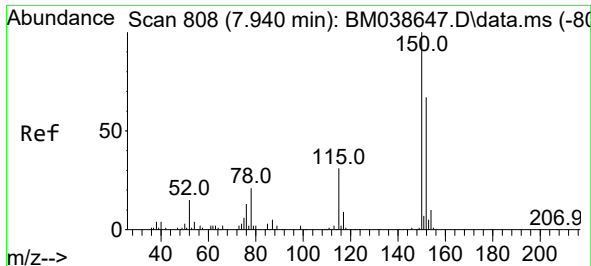
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM021623\
Data File : BM038770.D
Acq On : 16 Feb 2023 23:11
Operator : CG/JU
Sample : 01555-01
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
OR-3-2142023

Quant Time: Feb 17 06:14:01 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM020123.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 17 06:10:11 2023
Response via : Initial Calibration

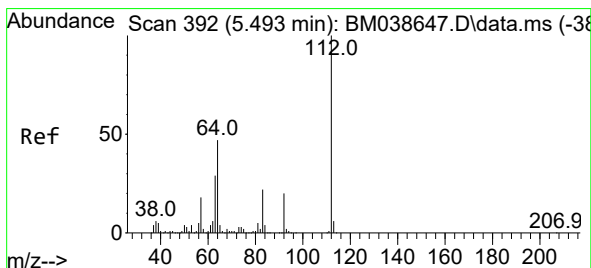
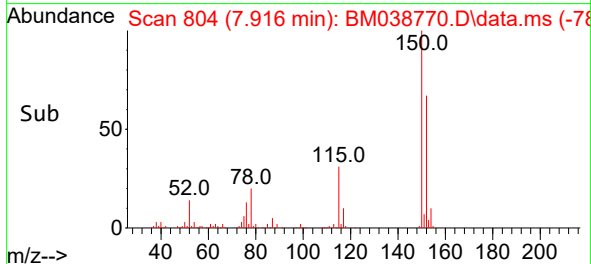
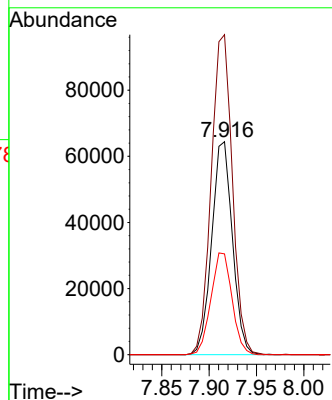
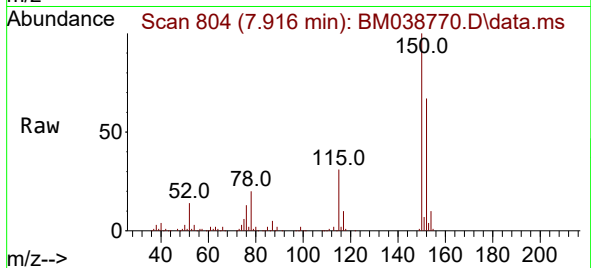




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.916 min Scan# 80
Delta R.T. 0.000 min
Lab File: BM038770.D
Acq: 16 Feb 2023 23:11

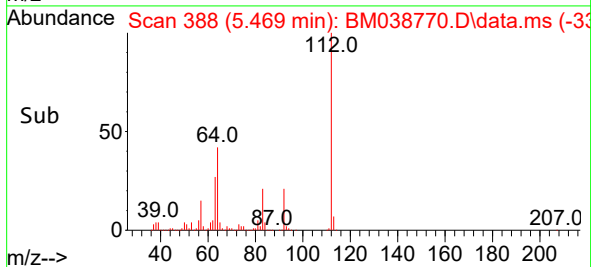
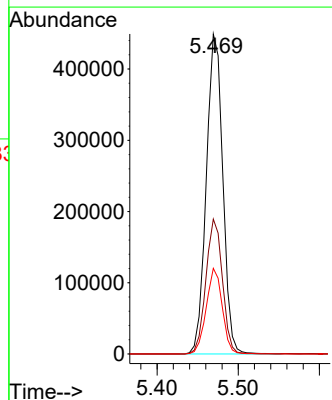
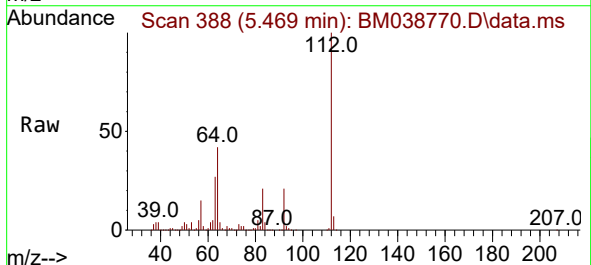
Instrument :
BNA_M
ClientSampleId :
OR-3-2142023

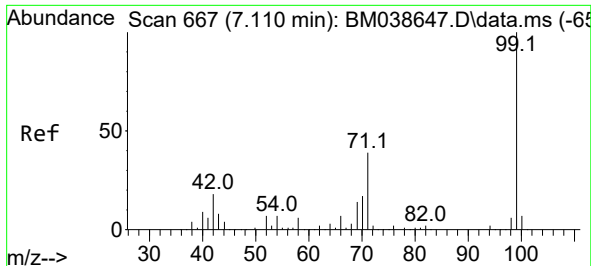
Tgt Ion:152 Resp: 98096
Ion Ratio Lower Upper
152 100
150 150.3 119.5 179.3
115 47.3 37.6 56.4



#5
2-Fluorophenol
Concen: 126.385 ng
RT: 5.469 min Scan# 388
Delta R.T. 0.006 min
Lab File: BM038770.D
Acq: 16 Feb 2023 23:11

Tgt Ion:112 Resp: 632894
Ion Ratio Lower Upper
112 100
64 42.2 37.9 56.9
63 26.7 23.3 34.9

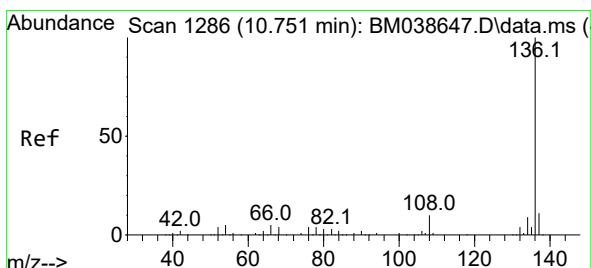
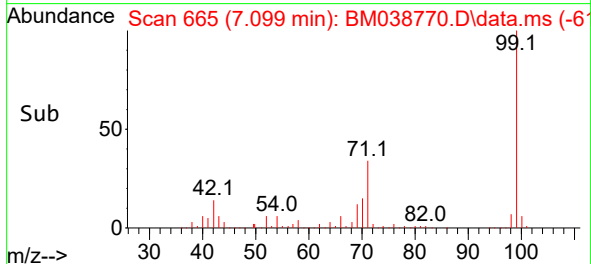
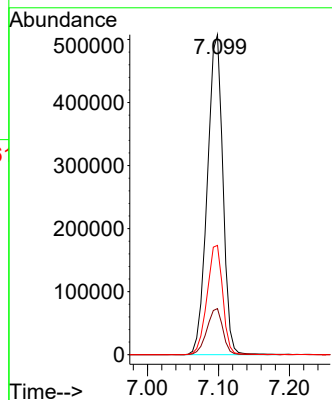
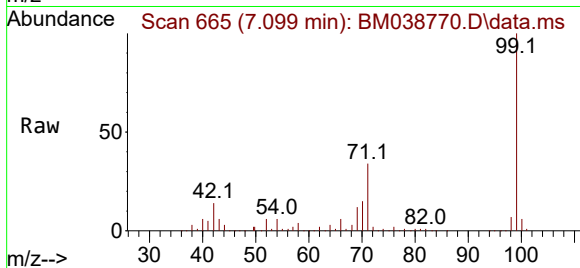




#7
Phenol-d6
Concen: 135.417 ng
RT: 7.099 min Scan# 60
Delta R.T. 0.012 min
Lab File: BM038770.D
Acq: 16 Feb 2023 23:11

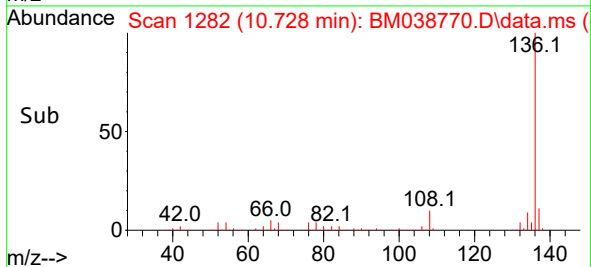
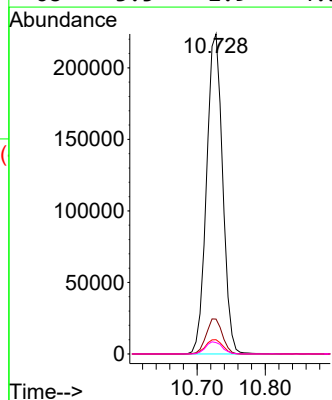
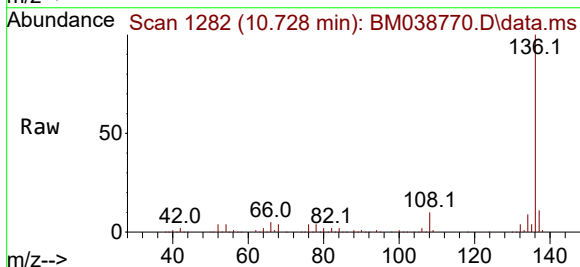
Instrument :
BNA_M
ClientSampleId :
OR-3-2142023

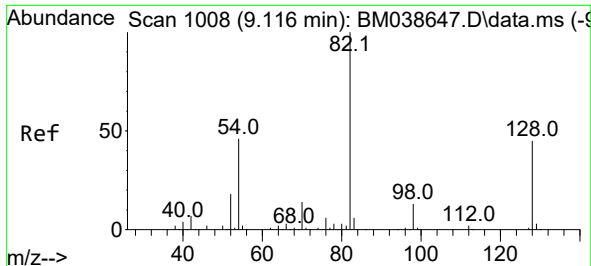
Tgt Ion: 99 Resp: 773421
Ion Ratio Lower Upper
99 100
42 14.4 14.6 22.0#
71 34.2 31.0 46.4



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.728 min Scan# 1282
Delta R.T. 0.000 min
Lab File: BM038770.D
Acq: 16 Feb 2023 23:11

Tgt Ion: 136 Resp: 366869
Ion Ratio Lower Upper
136 100
137 10.9 8.8 13.2
54 4.4 4.2 6.4
68 3.5 2.9 4.3

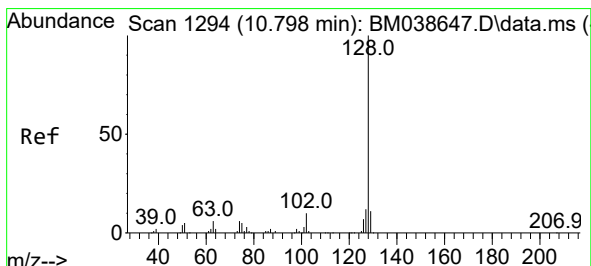
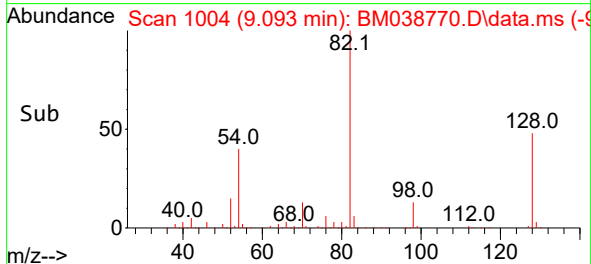
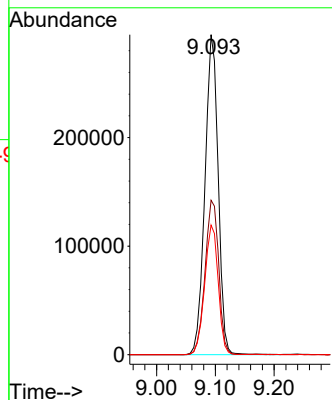
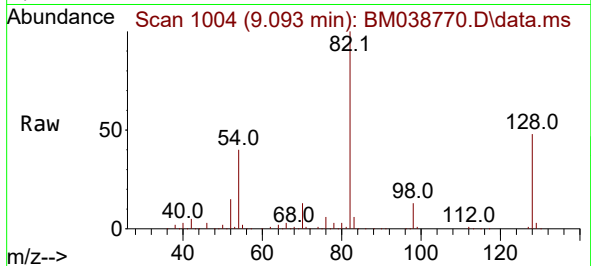




#23
Nitrobenzene-d5
Concen: 71.454 ng
RT: 9.093 min Scan# 1004
Delta R.T. 0.000 min
Lab File: BM038770.D
Acq: 16 Feb 2023 23:11

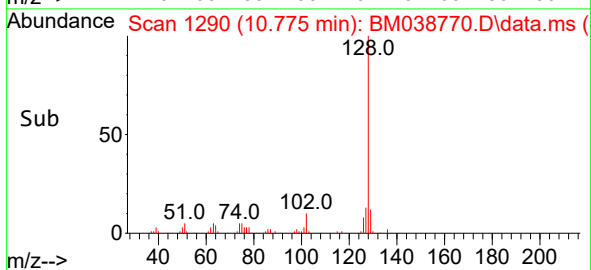
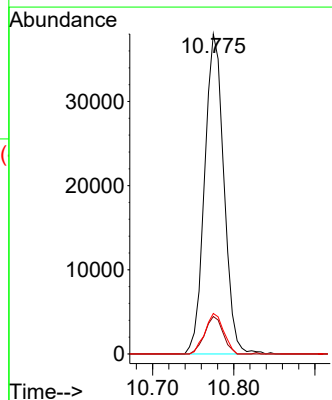
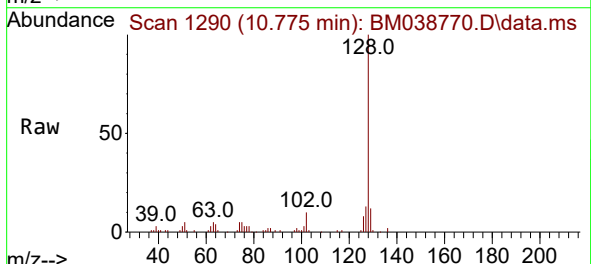
Instrument :
BNA_M
ClientSampleId :
OR-3-2142023

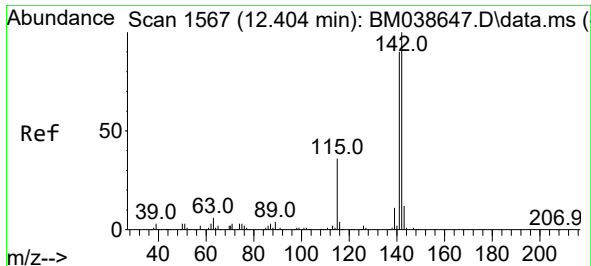
Tgt Ion: 82 Resp: 461513
Ion Ratio Lower Upper
82 100
128 48.2 36.0 54.0
54 40.5 36.8 55.2



#31
Naphthalene
Concen: 3.330 ng
RT: 10.775 min Scan# 1290
Delta R.T. 0.000 min
Lab File: BM038770.D
Acq: 16 Feb 2023 23:11

Tgt Ion: 128 Resp: 62689
Ion Ratio Lower Upper
128 100
129 11.7 9.1 13.7
127 12.7 9.9 14.9

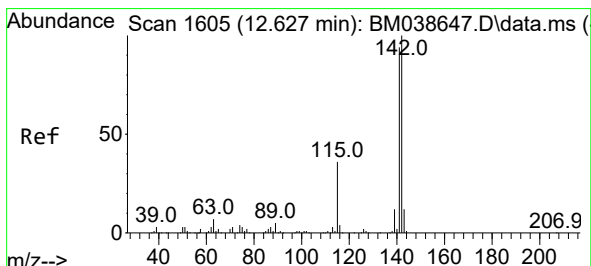
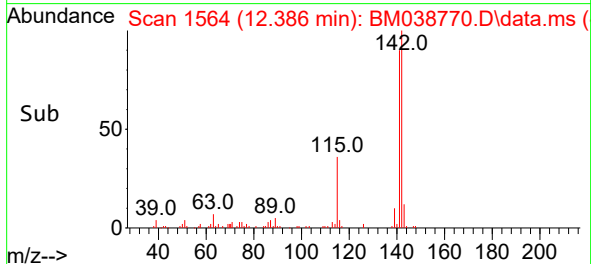
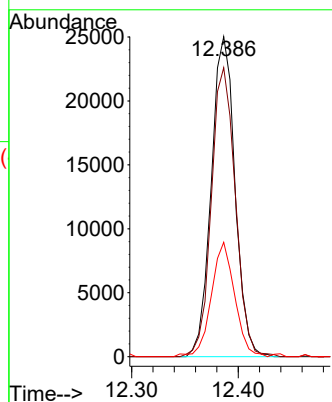
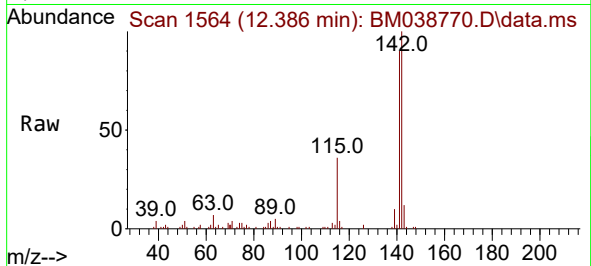




#37
2-Methylnaphthalene
Concen: 2.543 ng
RT: 12.386 min Scan# 11
Delta R.T. 0.000 min
Lab File: BM038770.D
Acq: 16 Feb 2023 23:11

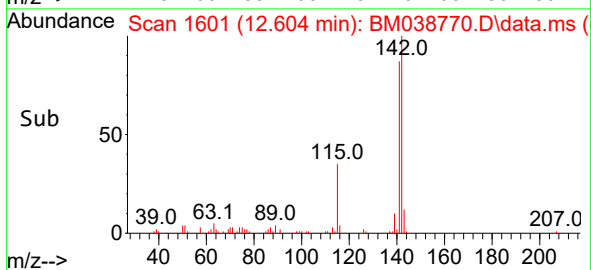
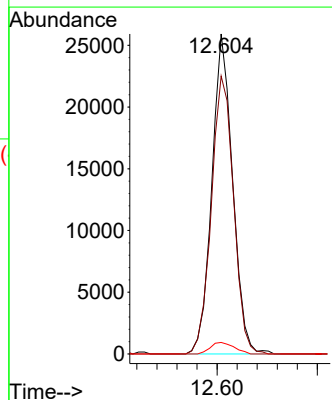
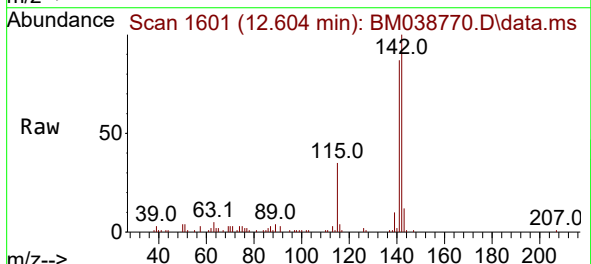
Instrument :
BNA_M
ClientSampleId :
OR-3-2142023

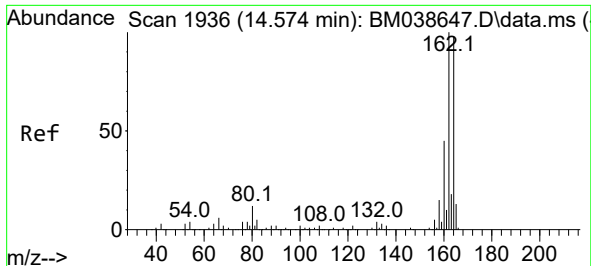
Tgt Ion:142 Resp: 38683
Ion Ratio Lower Upper
142 100
141 90.3 71.8 107.8
115 35.7 28.7 43.1



#38
1-Methylnaphthalene
Concen: 2.608 ng
RT: 12.604 min Scan# 1601
Delta R.T. 0.000 min
Lab File: BM038770.D
Acq: 16 Feb 2023 23:11

Tgt Ion:142 Resp: 37380
Ion Ratio Lower Upper
142 100
141 86.9 75.5 113.3
116 3.6 3.1 4.7

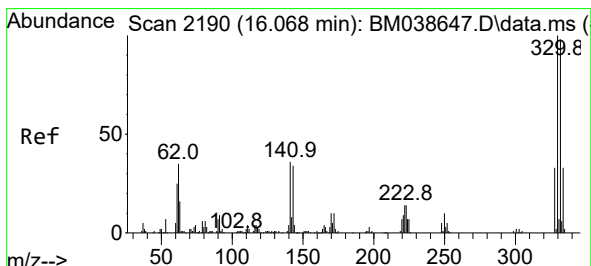
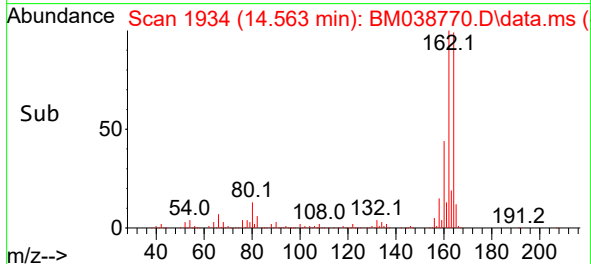
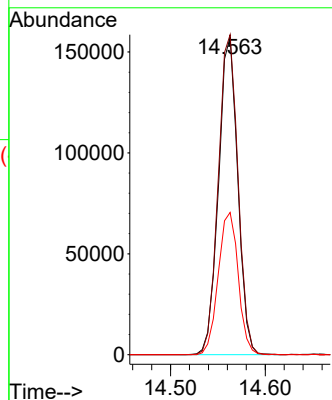
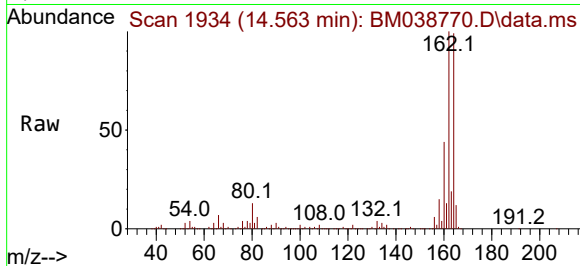




#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.563 min Scan# 1934
Delta R.T. 0.000 min
Lab File: BM038770.D
Acq: 16 Feb 2023 23:11

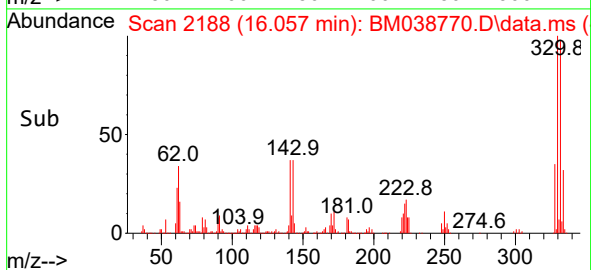
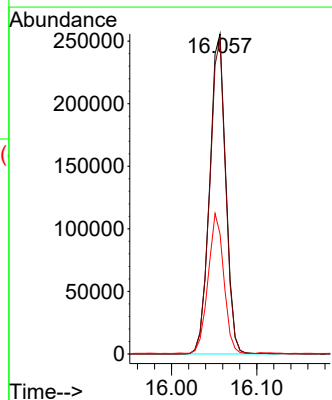
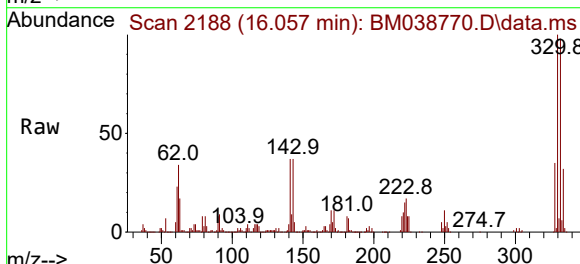
Instrument :
BNA_M
ClientSampleId :
OR-3-2142023

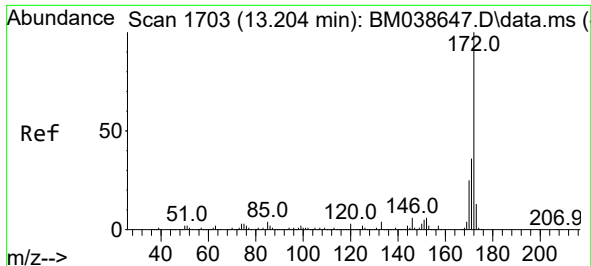
Tgt Ion:164 Resp: 222161
Ion Ratio Lower Upper
164 100
162 100.7 81.4 122.0
160 44.7 36.5 54.7



#42
2,4,6-Tribromophenol
Concen: 111.262 ng
RT: 16.057 min Scan# 2188
Delta R.T. 0.006 min
Lab File: BM038770.D
Acq: 16 Feb 2023 23:11

Tgt Ion:330 Resp: 335972
Ion Ratio Lower Upper
330 100
332 97.5 77.8 116.6
141 42.5 31.0 46.6





#45

2-Fluorobiphenyl

Concen: 74.441 ng

RT: 13.186 min Scan# 1

Delta R.T. 0.000 min

Lab File: BM038770.D

Acq: 16 Feb 2023 23:11

Instrument :

BNA_M

ClientSampleId :

OR-3-2142023

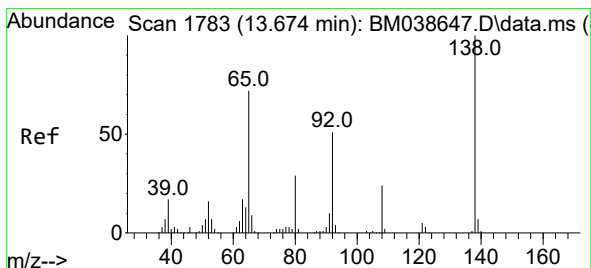
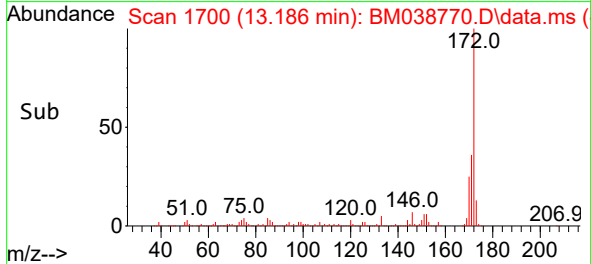
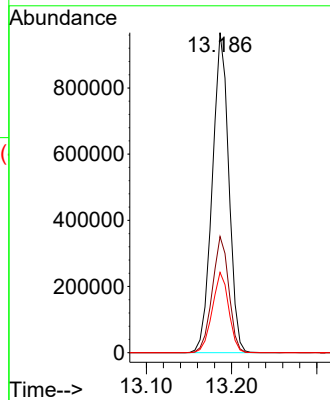
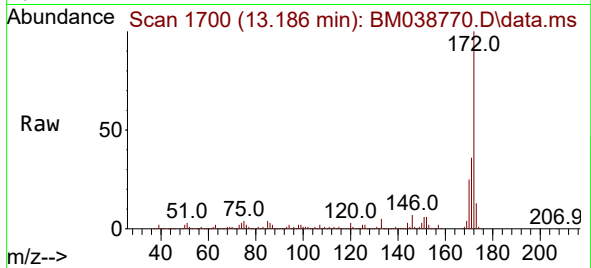
Tgt Ion:172 Resp: 1299020

Ion Ratio Lower Upper

172 100

171 36.3 28.7 43.1

170 25.1 20.0 30.0



#48

2-Nitroaniline

Concen: 2.189 ng

RT: 13.622 min Scan# 1774

Delta R.T. -0.035 min

Lab File: BM038770.D

Acq: 16 Feb 2023 23:11

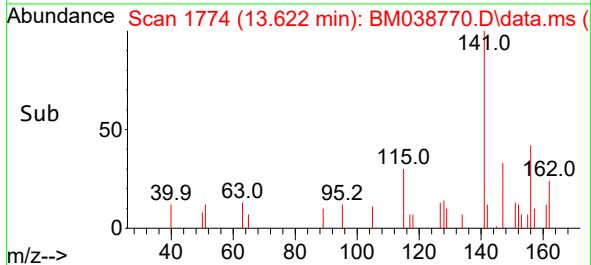
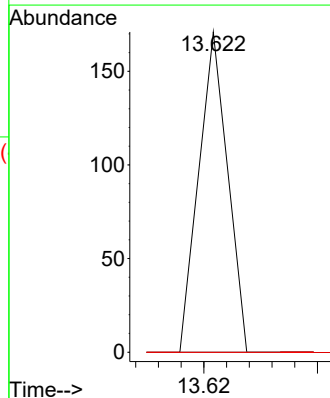
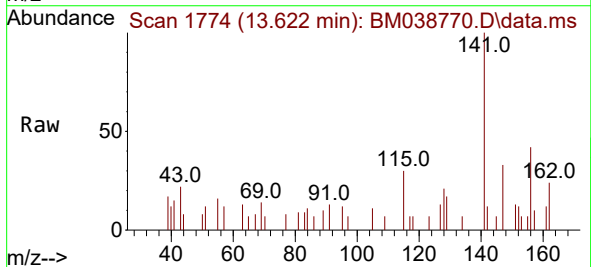
Tgt Ion: 65 Resp: 60

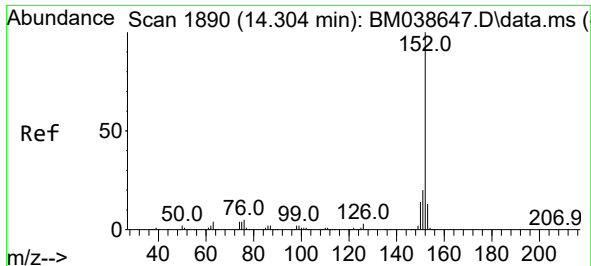
Ion Ratio Lower Upper

65 100

92 0.0 55.9 83.9#

138 0.0 110.6 166.0#

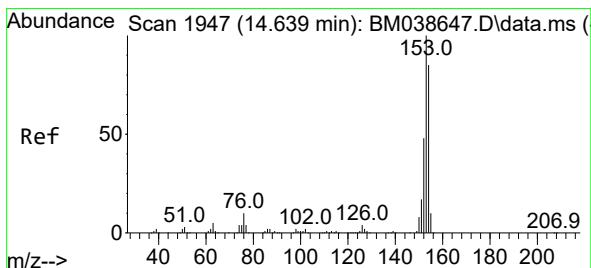
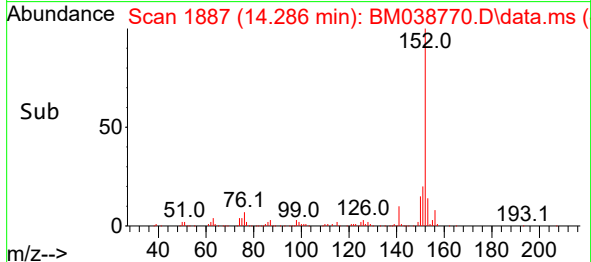
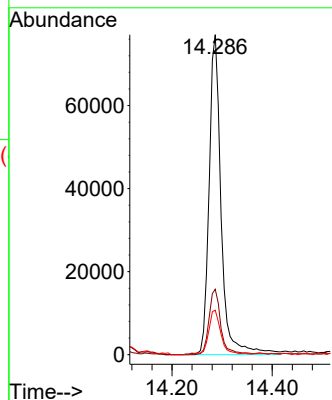
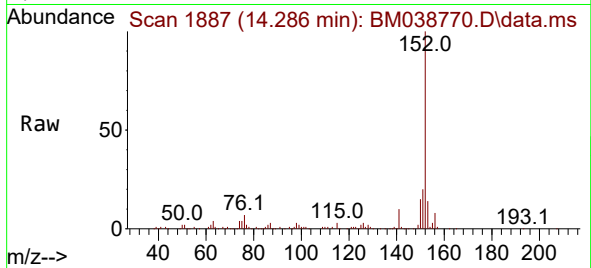




#49
Acenaphthylene
Concen: 5.901 ng
RT: 14.286 min Scan# 1887
Delta R.T. 0.000 min
Lab File: BM038770.D
Acq: 16 Feb 2023 23:11

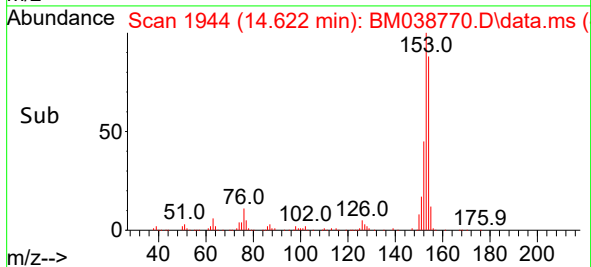
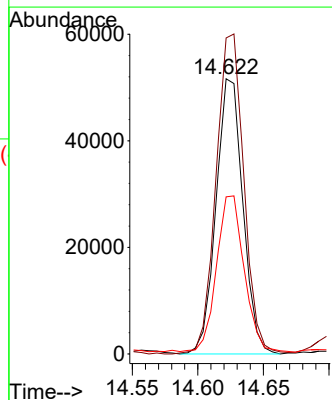
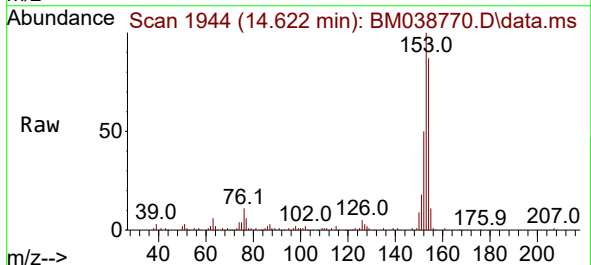
Instrument :
BNA_M
ClientSampleId :
OR-3-2142023

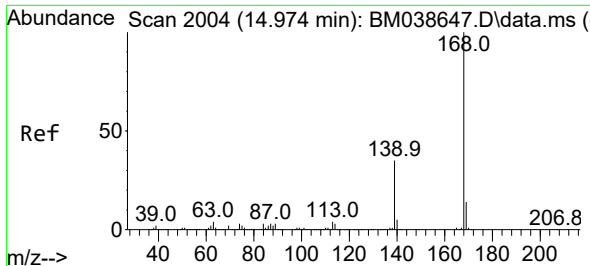
Tgt Ion:152 Resp: 128707
Ion Ratio Lower Upper
152 100
151 20.5 16.1 24.1
153 13.9 10.0 15.0



#52
Acenaphthene
Concen: 5.639 ng
RT: 14.622 min Scan# 1944
Delta R.T. -0.006 min
Lab File: BM038770.D
Acq: 16 Feb 2023 23:11

Tgt Ion:154 Resp: 73444
Ion Ratio Lower Upper
154 100
153 114.8 93.7 140.5
152 57.1 44.6 67.0

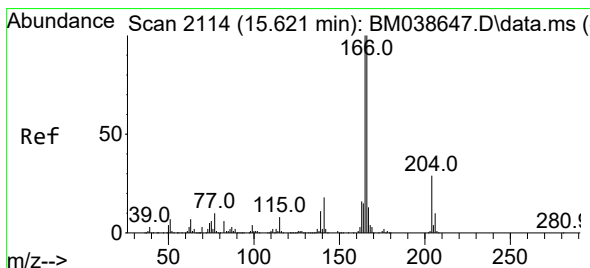
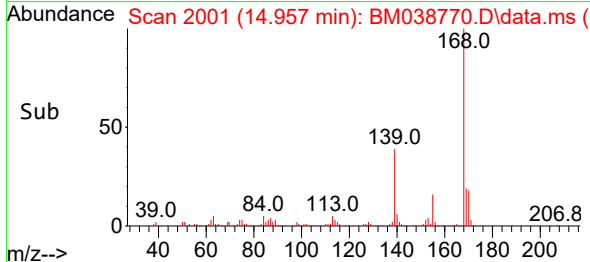
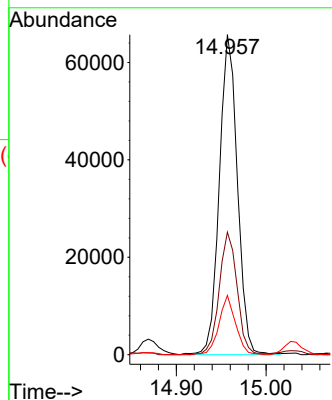
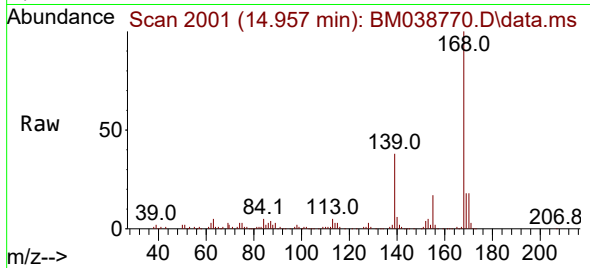




#55
Dibenzenofuran
Concen: 4.098 ng
RT: 14.957 min Scan# 2001
Delta R.T. 0.000 min
Lab File: BM038770.D
Acq: 16 Feb 2023 23:11

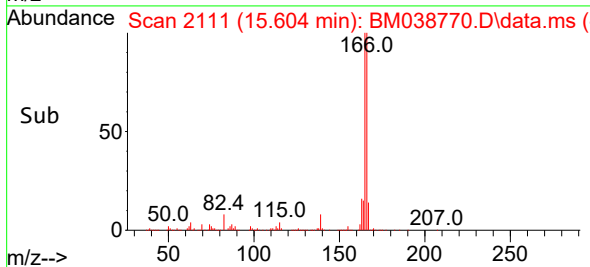
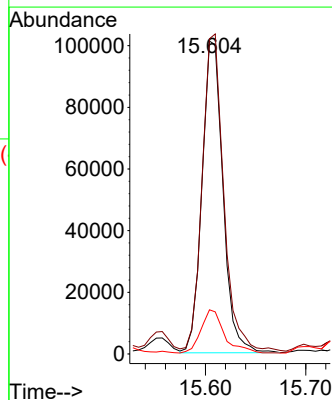
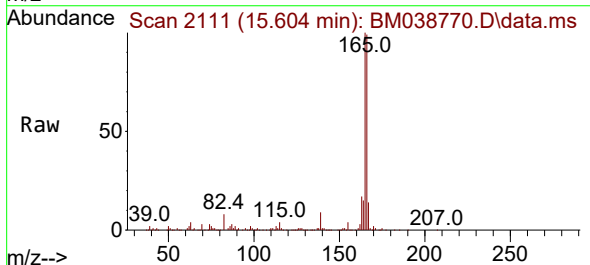
Instrument :
BNA_M
ClientSampleId :
OR-3-2142023

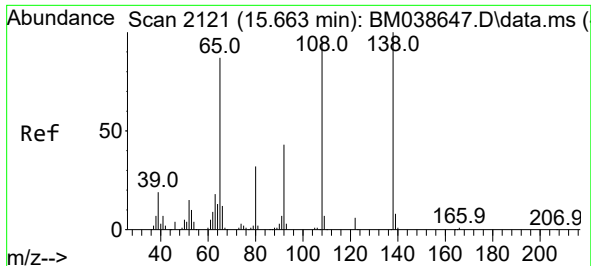
Tgt Ion:168 Resp: 91905
Ion Ratio Lower Upper
168 100
139 38.3 27.8 41.6
169 18.5 10.9 16.3#



#58
Fluorene
Concen: 8.309 ng
RT: 15.604 min Scan# 2111
Delta R.T. -0.006 min
Lab File: BM038770.D
Acq: 16 Feb 2023 23:11

Tgt Ion:166 Resp: 147448
Ion Ratio Lower Upper
166 100
165 100.8 80.2 120.4
167 14.1 10.7 16.1

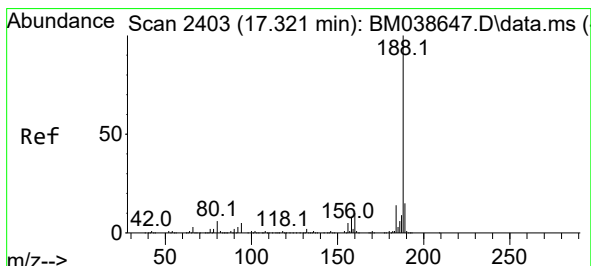
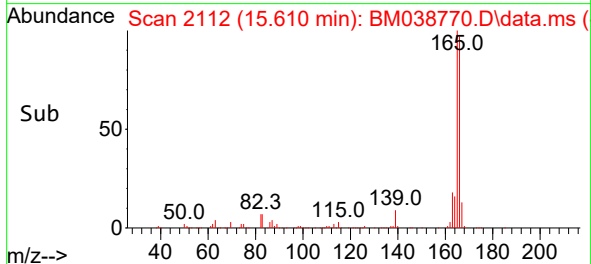
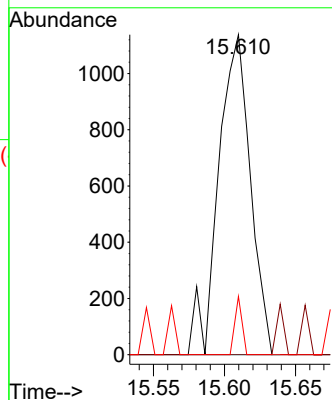
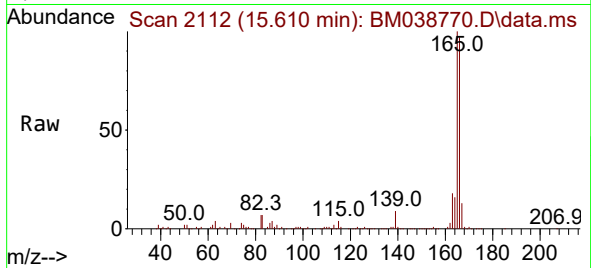




#62
4-Nitroaniline
Concen: 2.288 ng
RT: 15.610 min Scan# 2121
Delta R.T. -0.035 min
Lab File: BM038770.D
Acq: 16 Feb 2023 23:11

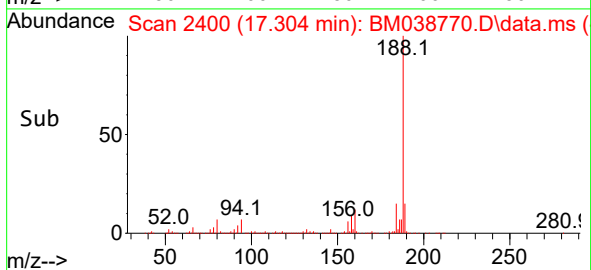
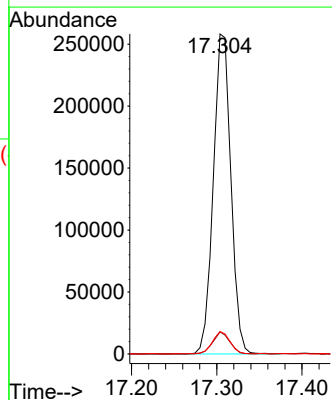
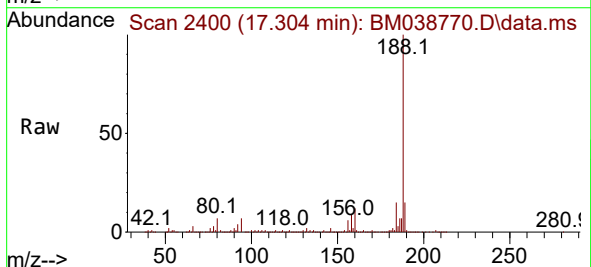
Instrument :
BNA_M
ClientSampleId :
OR-3-2142023

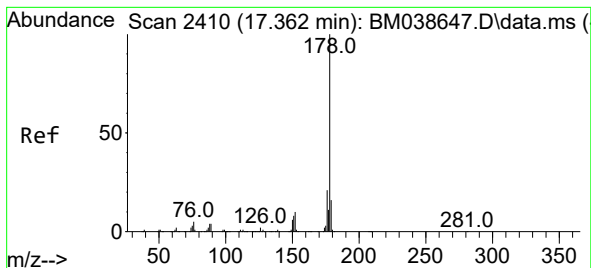
Tgt Ion:138 Resp: 1780
Ion Ratio Lower Upper
138 100
92 0.0 23.4 63.4#
108 18.2 75.1 115.1#



#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.304 min Scan# 2400
Delta R.T. 0.000 min
Lab File: BM038770.D
Acq: 16 Feb 2023 23:11

Tgt Ion:188 Resp: 370192
Ion Ratio Lower Upper
188 100
94 6.9 4.2 6.4#
80 7.0 4.6 7.0#





#71

Phenanthrene

Concen: 76.781 ng

RT: 17.351 min Scan# 2410

Delta R.T. 0.006 min

Lab File: BM038770.D

Acq: 16 Feb 2023 23:11

Instrument :

BNA_M

ClientSampleId :

OR-3-2142023

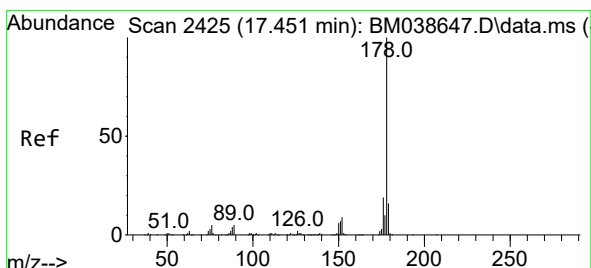
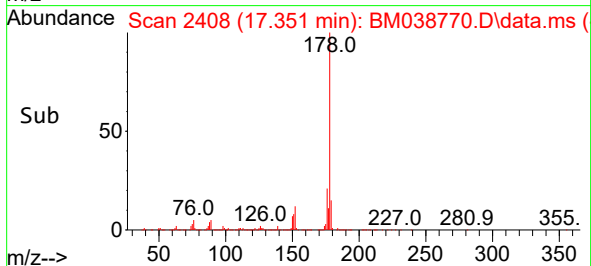
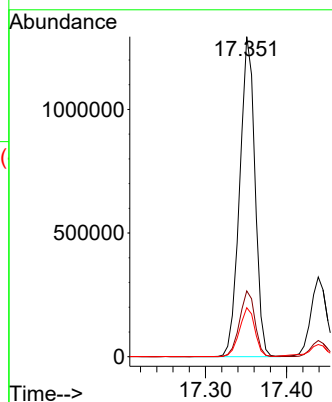
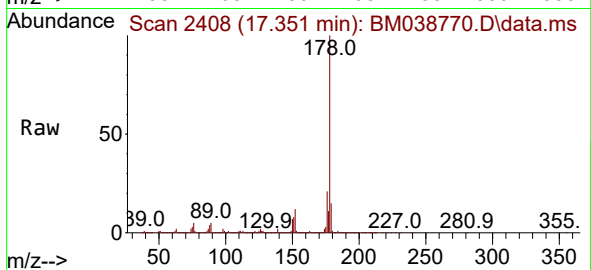
Tgt Ion:178 Resp: 1687713

Ion Ratio Lower Upper

178 100

176 20.5 16.7 25.1

179 15.3 12.5 18.7



#72

Anthracene

Concen: 19.045 ng

RT: 17.439 min Scan# 2423

Delta R.T. 0.000 min

Lab File: BM038770.D

Acq: 16 Feb 2023 23:11

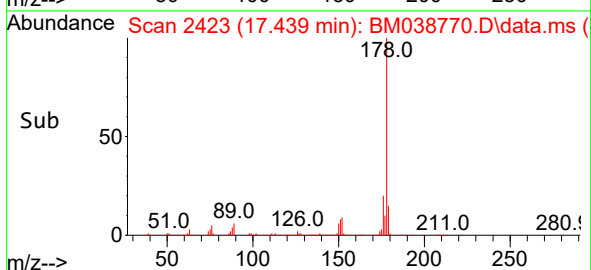
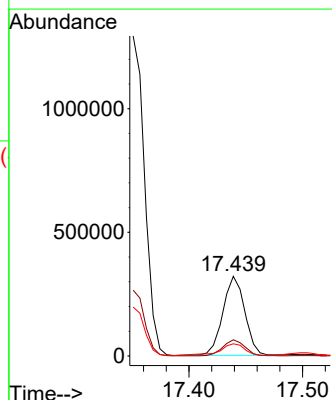
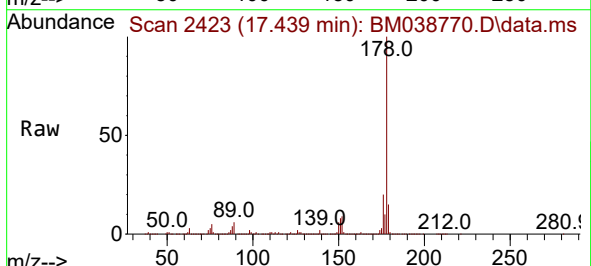
Tgt Ion:178 Resp: 428251

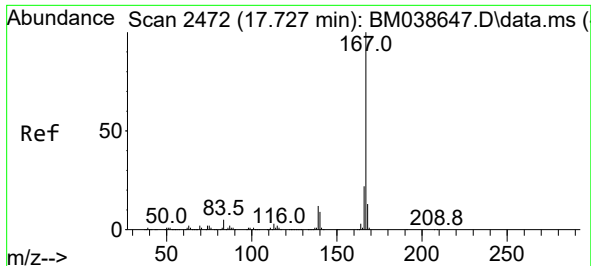
Ion Ratio Lower Upper

178 100

176 20.3 15.6 23.4

179 15.3 12.4 18.6

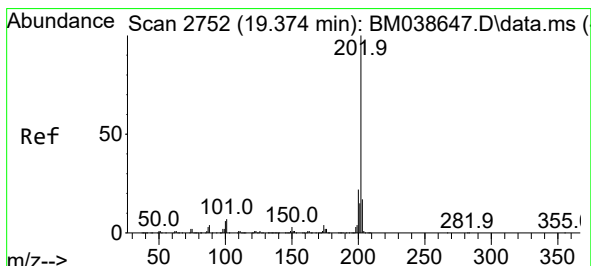
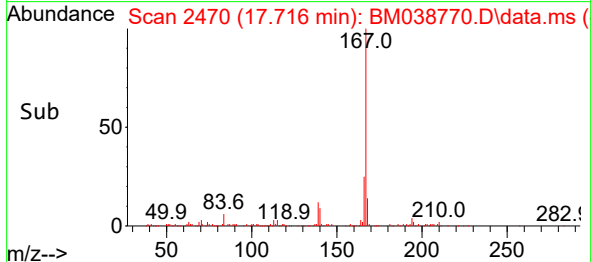
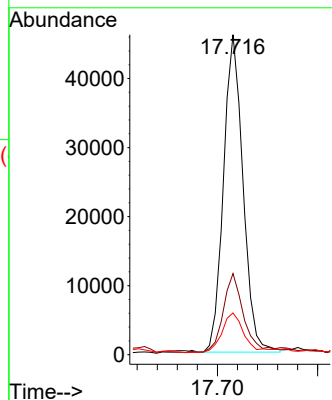
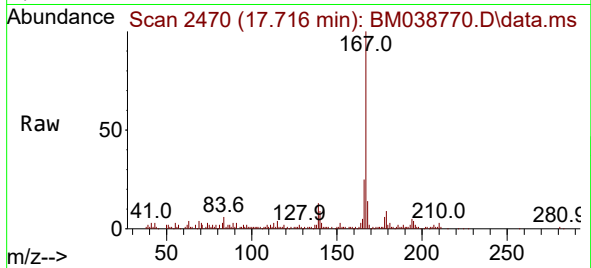




#73
 Carbazole
 Concen: 2.964 ng
 RT: 17.716 min Scan# 2472
 Delta R.T. 0.000 min
 Lab File: BM038770.D
 Acq: 16 Feb 2023 23:11

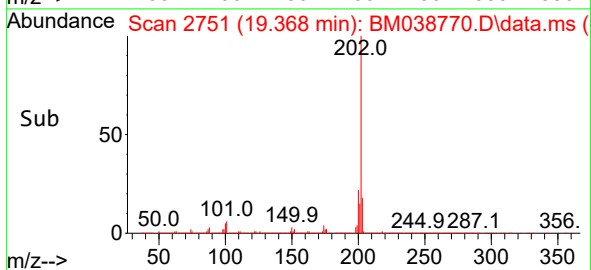
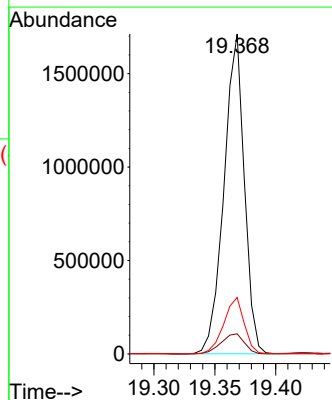
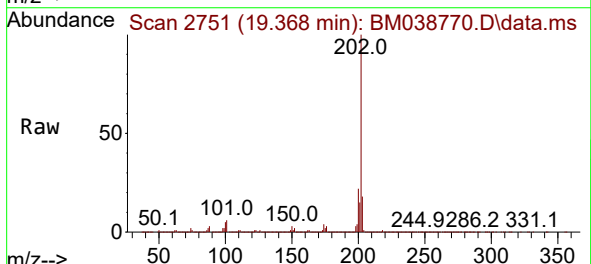
Instrument :
 BNA_M
 ClientSampleId :
 OR-3-2142023

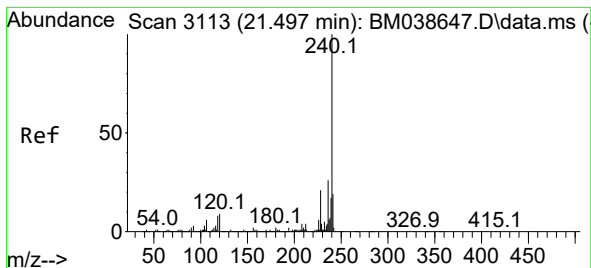
Tgt Ion:167 Resp: 62156
 Ion Ratio Lower Upper
 167 100
 166 25.4 17.8 26.6
 139 13.1 9.4 14.2



#75
 Fluoranthene
 Concen: 86.050 ng
 RT: 19.368 min Scan# 2751
 Delta R.T. 0.006 min
 Lab File: BM038770.D
 Acq: 16 Feb 2023 23:11

Tgt Ion:202 Resp: 1985942
 Ion Ratio Lower Upper
 202 100
 101 6.3 0.0 27.4
 203 17.7 0.0 37.3





#76

Chrysene-d12

Concen: 20.000 ng

RT: 21.486 min Scan# 3111

Delta R.T. 0.000 min

Lab File: BM038770.D

Acq: 16 Feb 2023 23:11

Instrument :

BNA_M

ClientSampleId :

OR-3-2142023

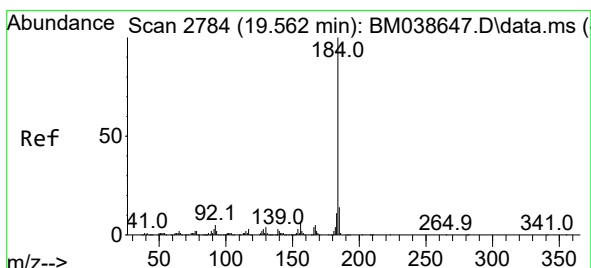
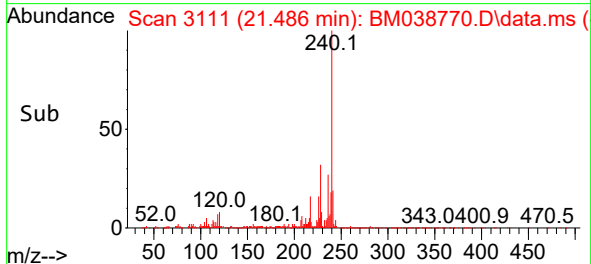
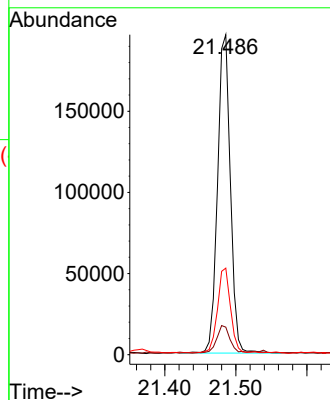
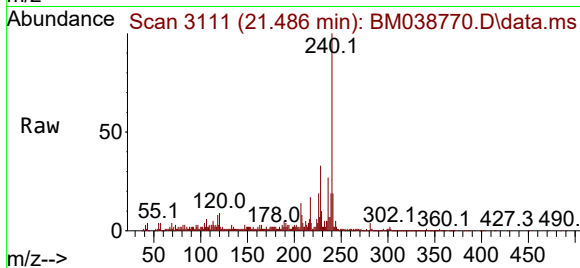
Tgt Ion:240 Resp: 244892

Ion Ratio Lower Upper

240 100

120 8.6 7.0 10.4

236 27.0 20.9 31.3



#77

Benzidine

Concen: 3.137 ng

RT: 19.562 min Scan# 2784

Delta R.T. 0.012 min

Lab File: BM038770.D

Acq: 16 Feb 2023 23:11

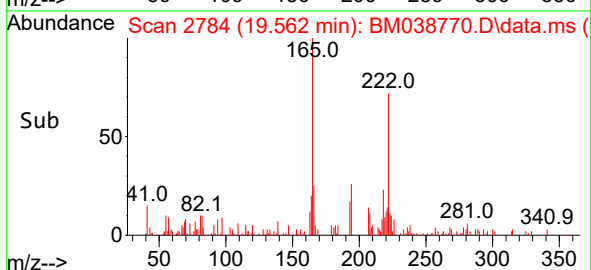
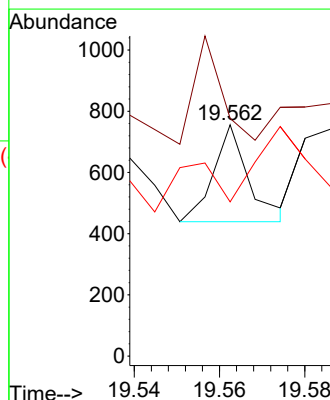
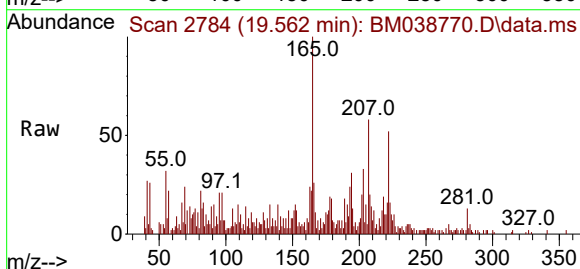
Tgt Ion:184 Resp: 182

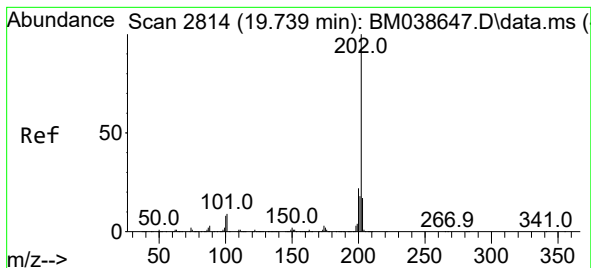
Ion Ratio Lower Upper

184 100

185 102.8 10.8 16.2#

183 66.7 8.8 13.2#





#78

Pyrene

Concen: 96.954 ng

RT: 19.727 min Scan# 21

Delta R.T. 0.006 min

Lab File: BM038770.D

Acq: 16 Feb 2023 23:11

Instrument :

BNA_M

ClientSampleId :

OR-3-2142023

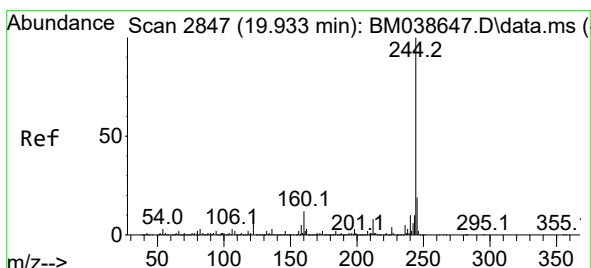
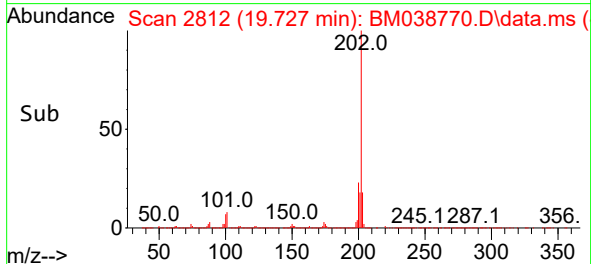
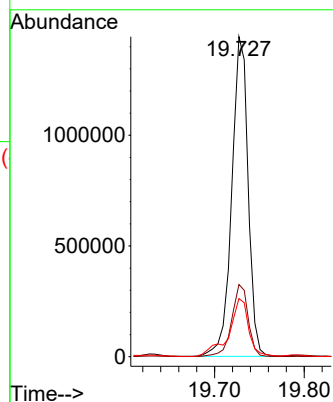
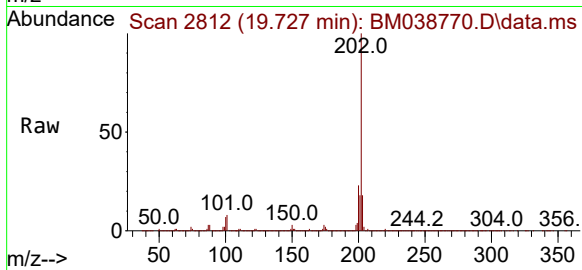
Tgt Ion:202 Resp: 1828001

Ion Ratio Lower Upper

202 100

200 22.5 17.8 26.6

203 18.2 13.5 20.3



#79

Terphenyl-d14

Concen: 97.403 ng

RT: 19.927 min Scan# 2846

Delta R.T. 0.006 min

Lab File: BM038770.D

Acq: 16 Feb 2023 23:11

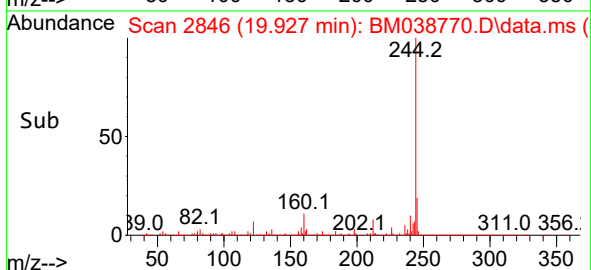
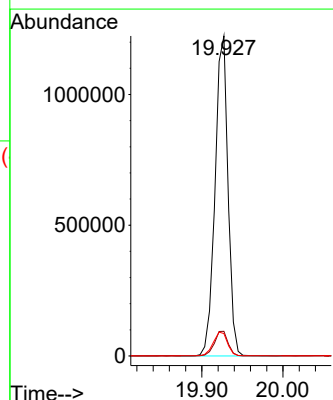
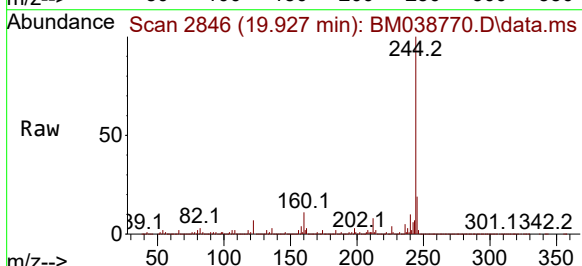
Tgt Ion:244 Resp: 1351713

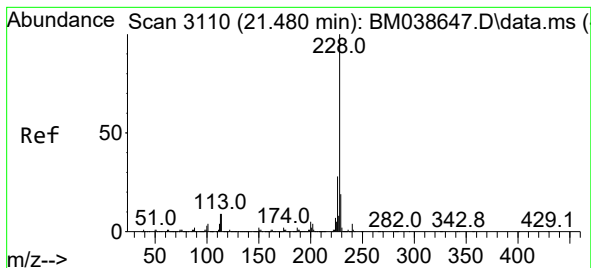
Ion Ratio Lower Upper

244 100

212 7.7 6.6 9.8

122 7.0 7.8 11.8#





#81

Benzo(a)anthracene

Concen: 44.899 ng

RT: 21.468 min Scan# 3110

Delta R.T. 0.000 min

Lab File: BM038770.D

Acq: 16 Feb 2023 23:11

Instrument :

BNA_M

ClientSampleId :

OR-3-2142023

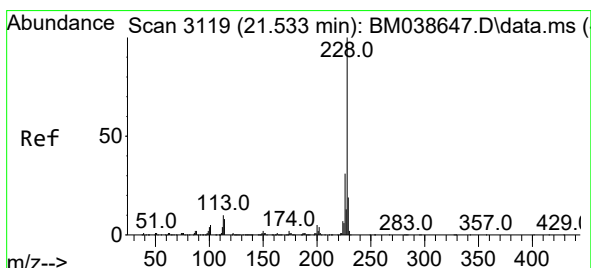
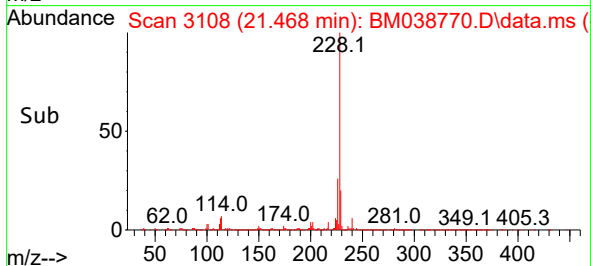
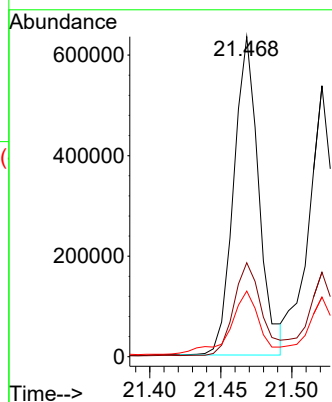
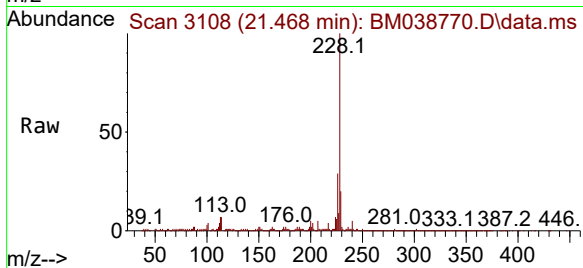
Tgt Ion:228 Resp: 777777

Ion Ratio Lower Upper

228 100

226 29.4 22.2 33.4

229 20.5 15.5 23.3



#83

Chrysene

Concen: 38.698 ng

RT: 21.521 min Scan# 3117

Delta R.T. 0.000 min

Lab File: BM038770.D

Acq: 16 Feb 2023 23:11

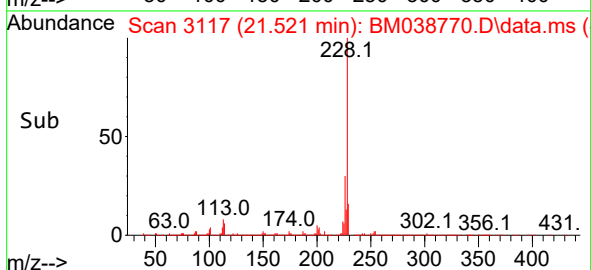
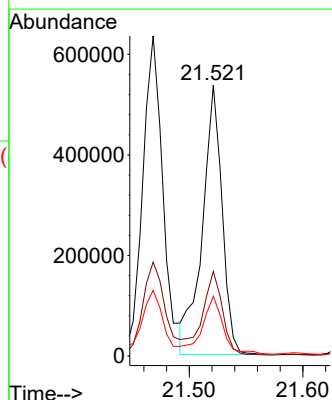
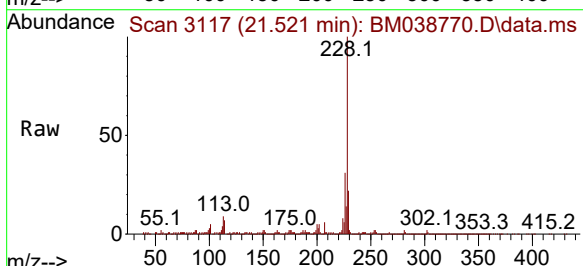
Tgt Ion:228 Resp: 645897

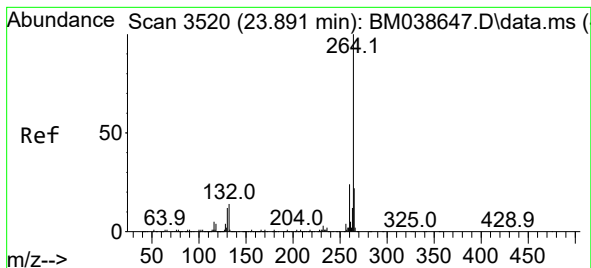
Ion Ratio Lower Upper

228 100

226 31.2 24.7 37.1

229 22.0 15.5 23.3





#86

Perylene-d12

Concen: 20.000 ng

RT: 23.874 min Scan# 3

Delta R.T. 0.006 min

Lab File: BM038770.D

Acq: 16 Feb 2023 23:11

Instrument :

BNA_M

ClientSampleId :

OR-3-2142023

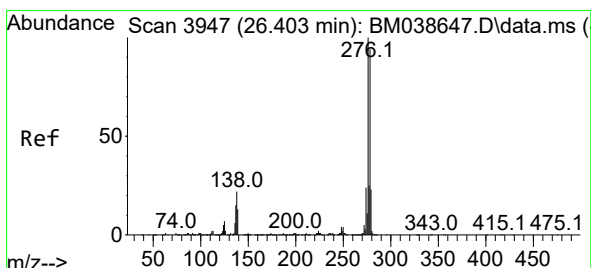
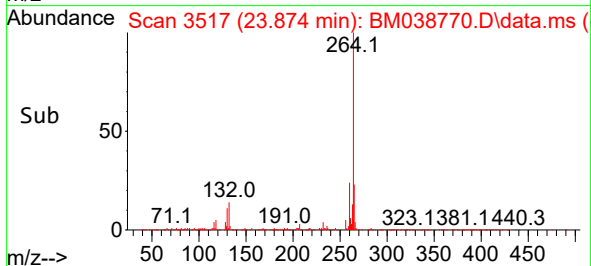
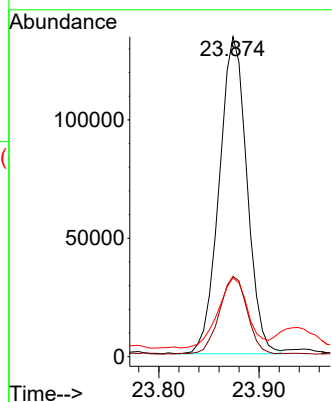
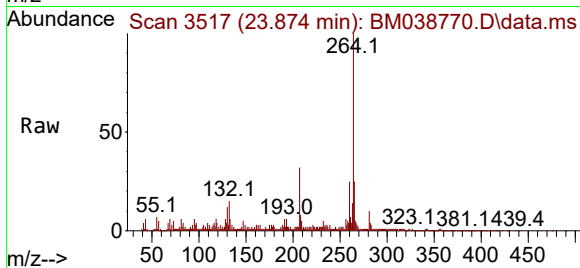
Tgt Ion:264 Resp: 257447

Ion Ratio Lower Upper

264 100

260 25.1 19.6 29.4

265 24.7 17.9 26.9



#87

Indeno(1,2,3-cd)pyrene

Concen: 19.924 ng

RT: 26.368 min Scan# 3941

Delta R.T. 0.006 min

Lab File: BM038770.D

Acq: 16 Feb 2023 23:11

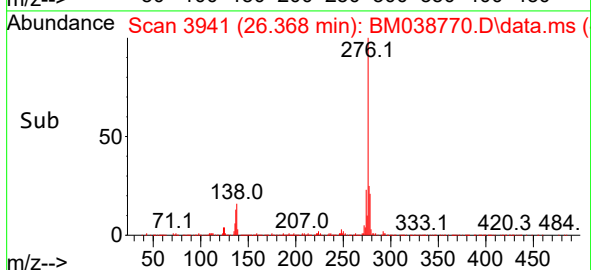
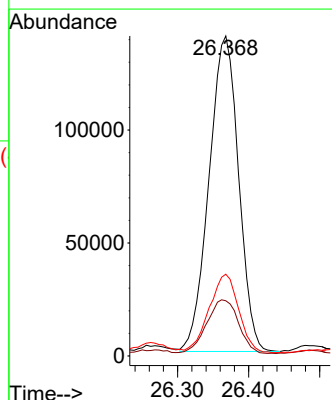
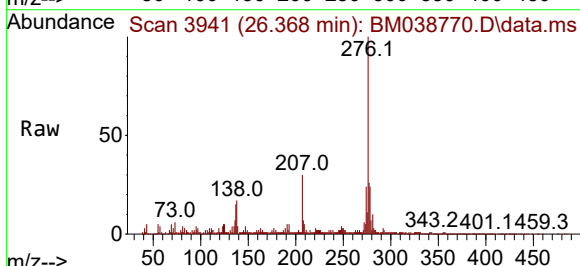
Tgt Ion:276 Resp: 404013

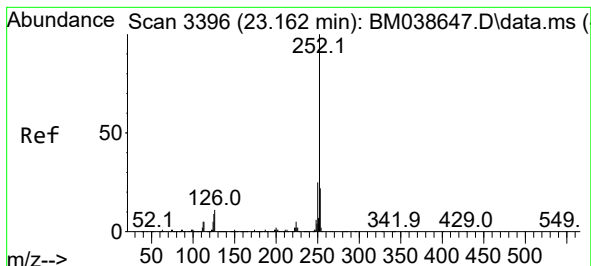
Ion Ratio Lower Upper

276 100

138 18.4 17.2 25.8

277 24.8 20.2 30.4





#88

Benzo(b)fluoranthene

Concen: 54.375 ng

RT: 23.150 min Scan# 3394

Delta R.T. 0.012 min

Lab File: BM038770.D

Acq: 16 Feb 2023 23:11

Instrument :

BNA_M

ClientSampleId :

OR-3-2142023

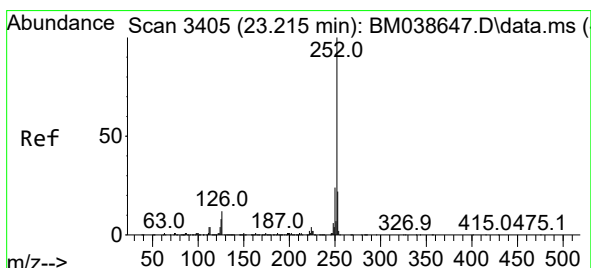
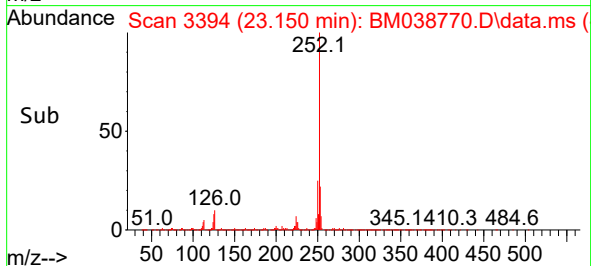
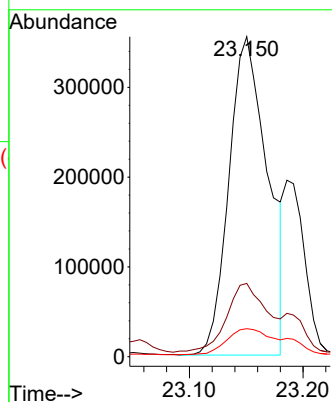
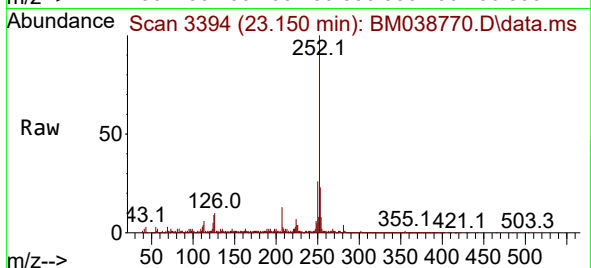
Tgt Ion:252 Resp: 838464

Ion Ratio Lower Upper

252 100

253 22.9 17.4 26.2

125 8.7 7.0 10.6



#89

Benzo(k)fluoranthene

Concen: 53.547 ng

RT: 23.150 min Scan# 3394

Delta R.T. -0.035 min

Lab File: BM038770.D

Acq: 16 Feb 2023 23:11

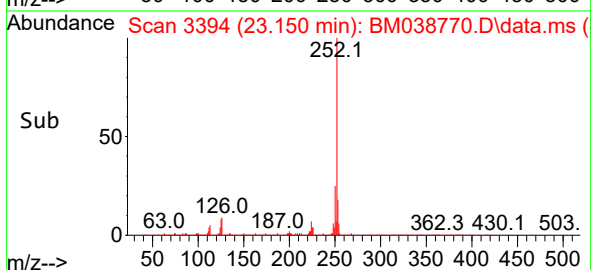
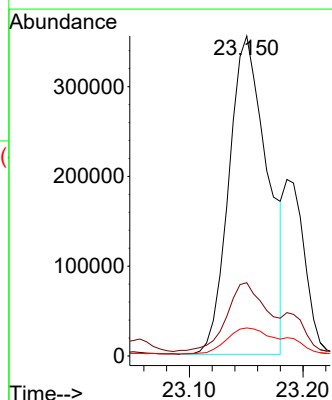
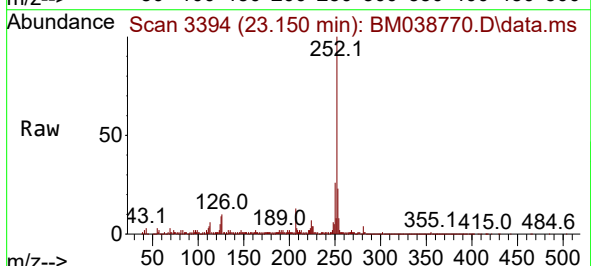
Tgt Ion:252 Resp: 838464

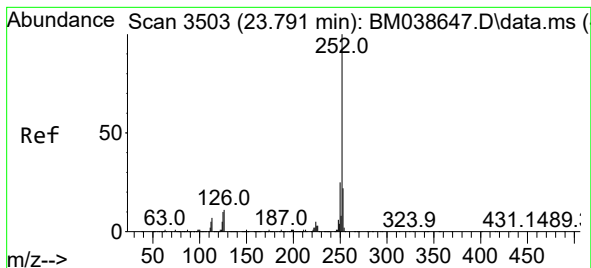
Ion Ratio Lower Upper

252 100

253 22.9 17.4 26.0

125 8.7 6.6 9.8





#90

Benzo(a)pyrene

Concen: 41.909 ng

RT: 23.768 min Scan# 34

Delta R.T. 0.006 min

Lab File: BM038770.D

Acq: 16 Feb 2023 23:11

Instrument :

BNA_M

ClientSampleId :

OR-3-2142023

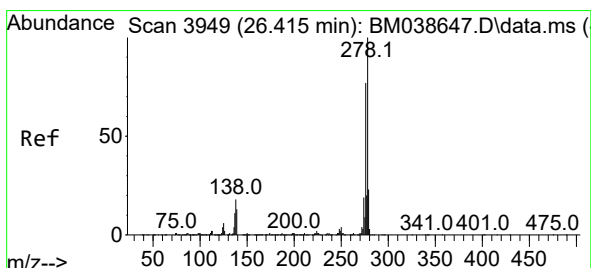
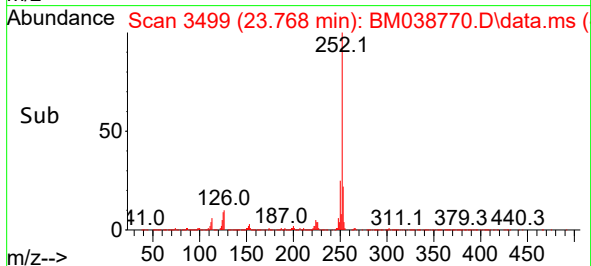
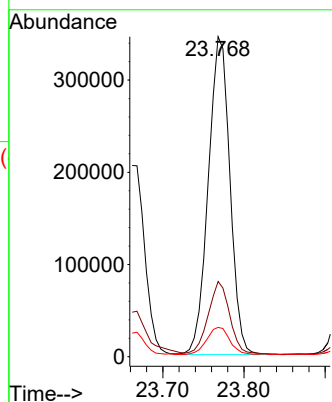
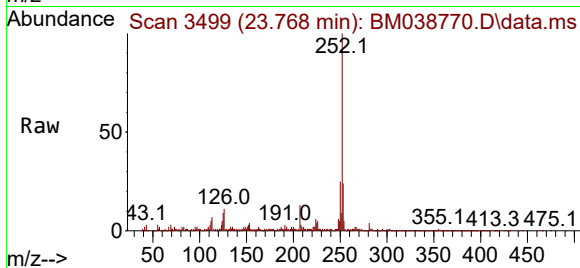
Tgt Ion:252 Resp: 639077

Ion Ratio Lower Upper

252 100

253 23.5 17.7 26.5

125 9.2 7.8 11.8



#91

Dibenzo(a,h)anthracene

Concen: 6.420 ng

RT: 26.368 min Scan# 3941

Delta R.T. 0.000 min

Lab File: BM038770.D

Acq: 16 Feb 2023 23:11

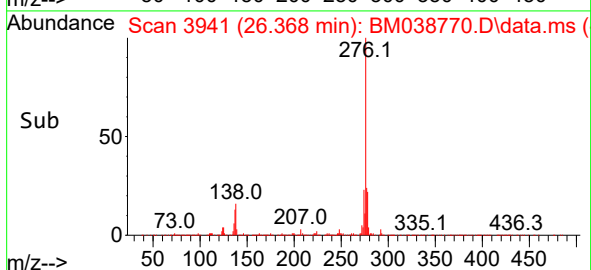
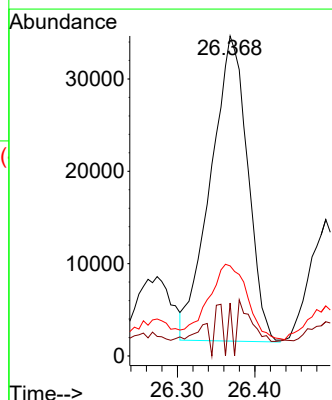
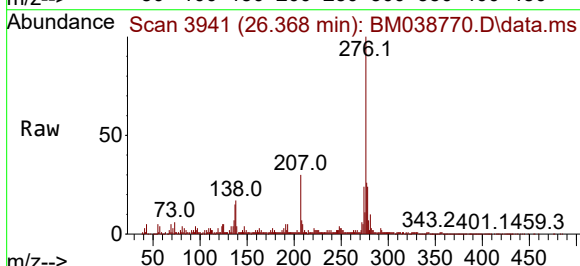
Tgt Ion:278 Resp: 109528

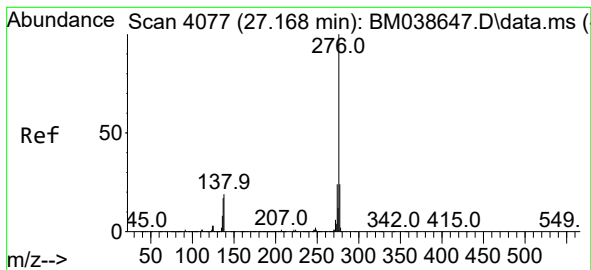
Ion Ratio Lower Upper

278 100

139 16.6 10.5 15.7#

279 28.1 18.7 28.1#





#92
 Benzo(g,h,i)perylene
 Concen: 23.254 ng
 RT: 27.138 min Scan# 4072
 Delta R.T. 0.012 min
 Lab File: BM038770.D
 Acq: 16 Feb 2023 23:11

Instrument :
 BNA_M
 ClientSampleId :
 OR-3-2142023

Tgt Ion:276 Resp: 401029
 Ion Ratio Lower Upper
 276 100
 277 24.7 19.1 28.7
 138 19.5 15.3 22.9

