

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)

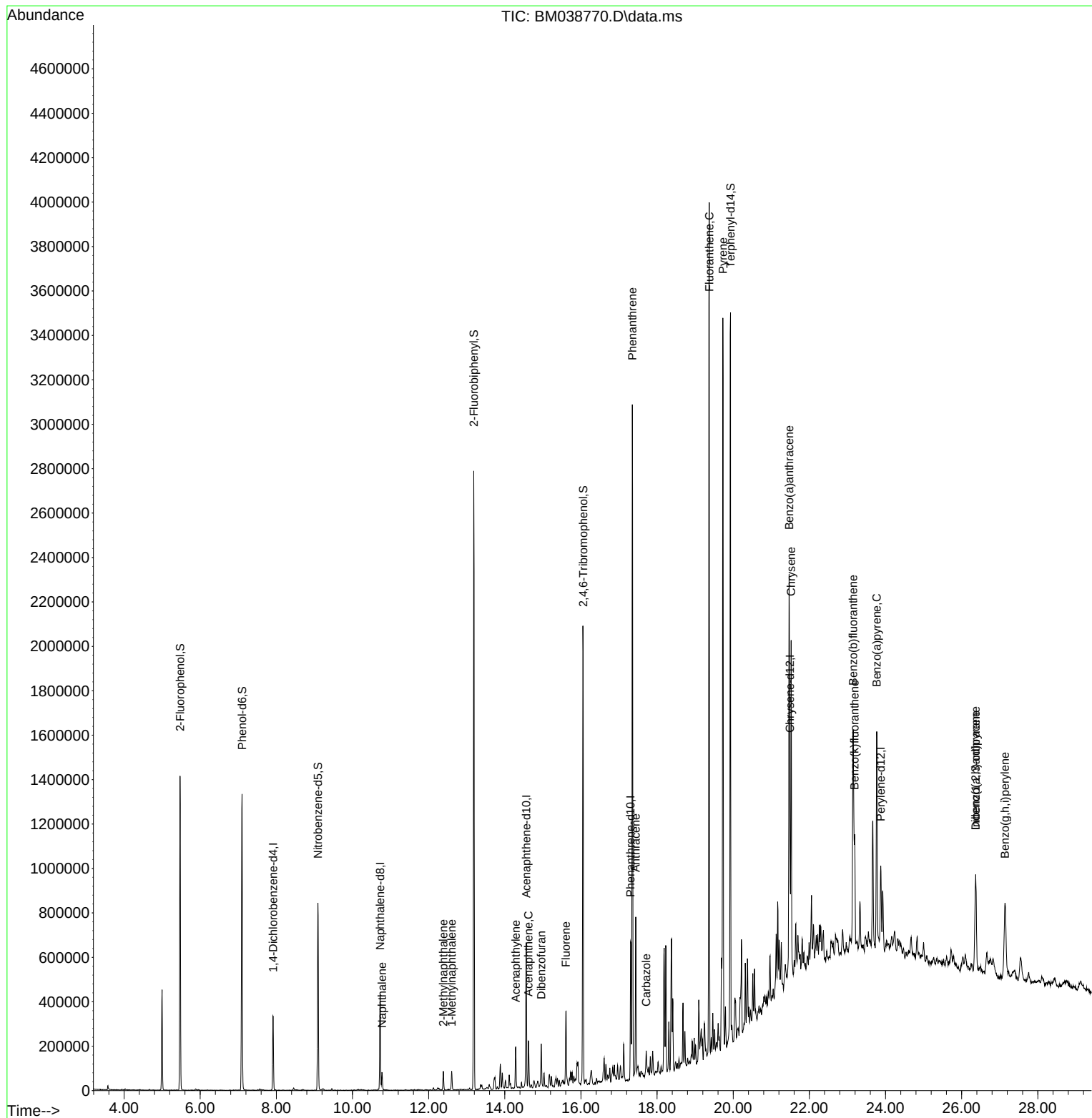
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.916	152	98096	20.000	ng	0.00
21) Naphthalene-d8	10.728	136	366869	20.000	ng	0.00
39) Acenaphthene-d10	14.563	164	222161	20.000	ng	0.00
64) Phenanthrene-d10	17.304	188	370192	20.000	ng	# 0.00
76) Chrysene-d12	21.486	240	244892	20.000	ng	0.00
86) Perylene-d12	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
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
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
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	23.186	252	245358m	15.669	ng	
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

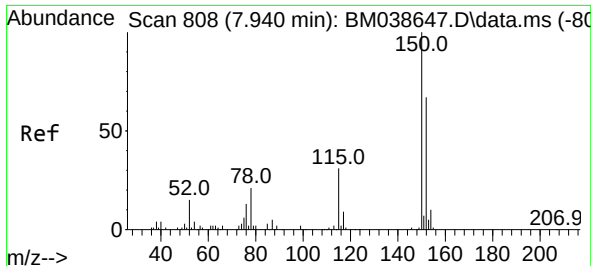
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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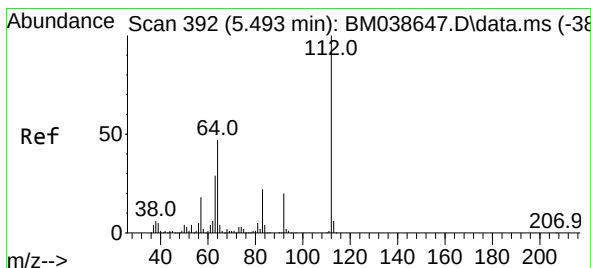
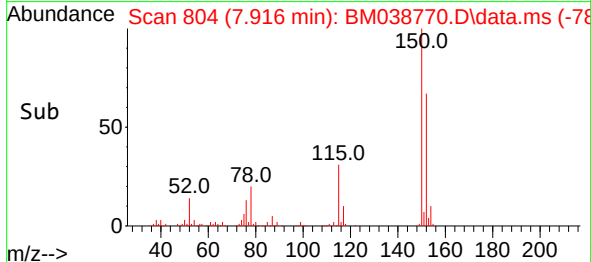
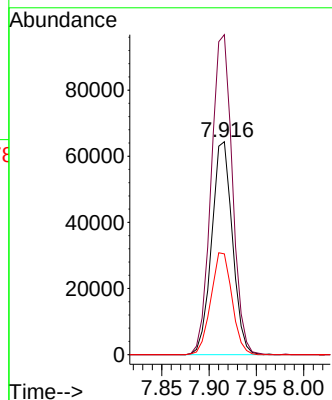
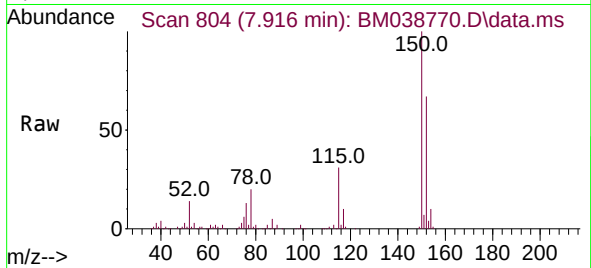




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.916 min Scan# 804
Delta R.T. 0.000 min
Lab File: BM038770.D
Acq: 16 Feb 2023 23:11

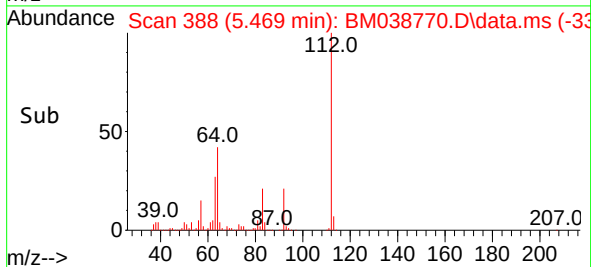
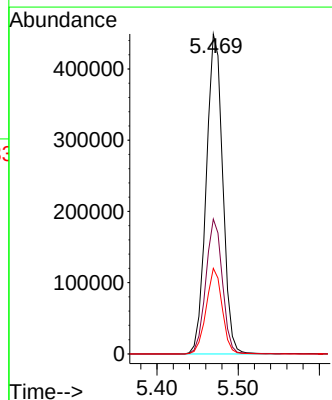
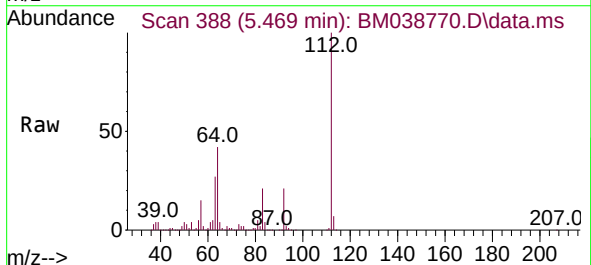
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BNA_M
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OR-3-2142023

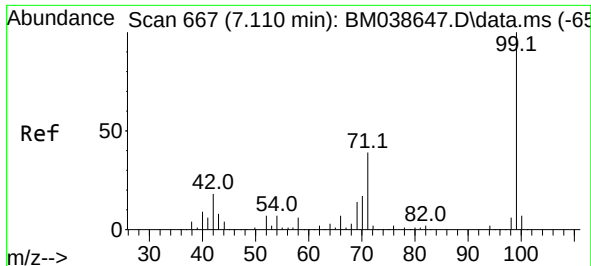
Tgt Ion:152 Resp: 98096
Ion Ratio Lower Upper
152 100
150 150.3 119.5 179.3
115 47.3 37.6 56.4



#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

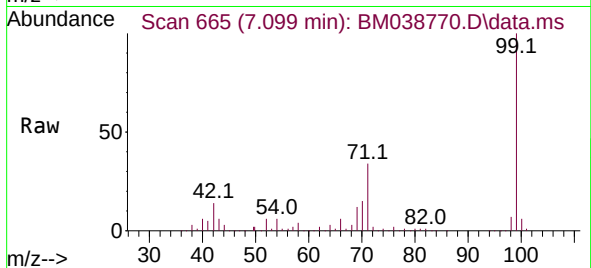
Tgt Ion:112 Resp: 632894
Ion Ratio Lower Upper
112 100
64 42.2 37.9 56.9
63 26.7 23.3 34.9



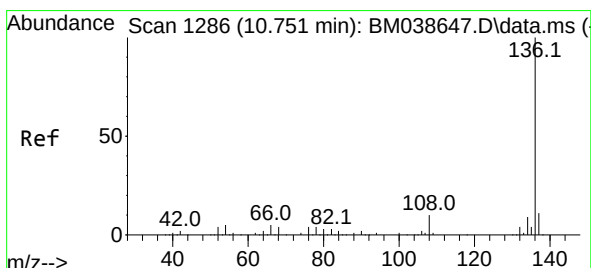
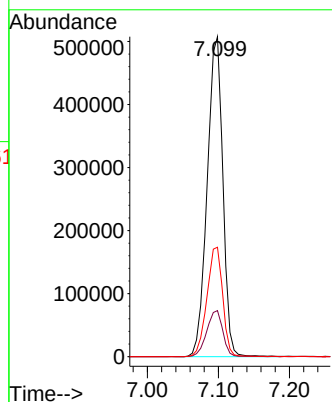
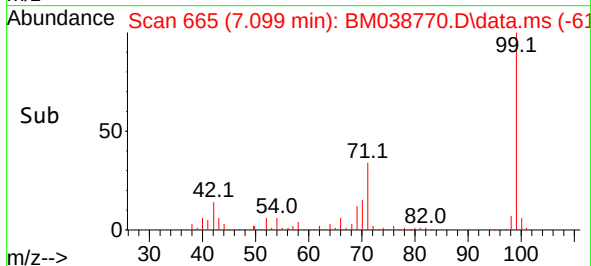


#7
Phenol-d6
Concen: 135.417 ng
RT: 7.099 min Scan# 60
Delta R.T. 0.012 min
Lab File: BM038770.D
Acq: 16 Feb 2023 23:11

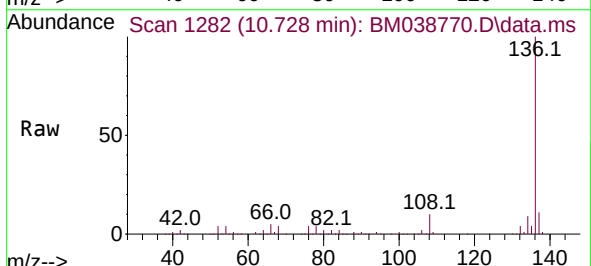
Instrument :
BNA_M
ClientSampleId :
OR-3-2142023



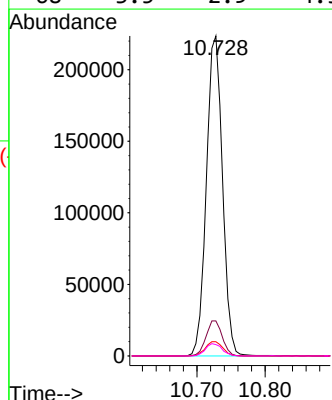
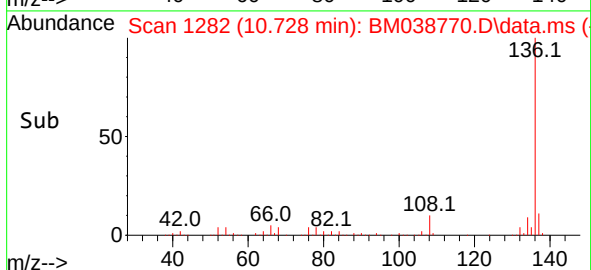
Tgt Ion: 99 Resp: 773421
Ion Ratio Lower Upper
99 100
42 14.4 14.6 22.0#
71 34.2 31.0 46.4

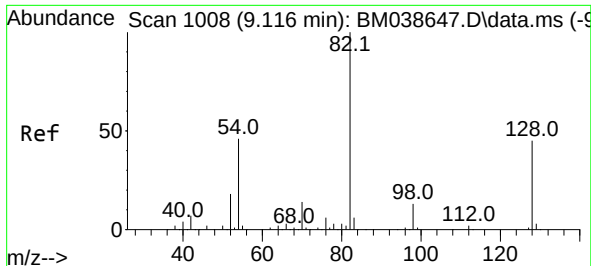


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.728 min Scan# 1282
Delta R.T. 0.000 min
Lab File: BM038770.D
Acq: 16 Feb 2023 23:11



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

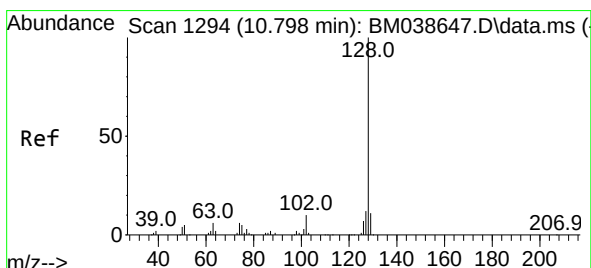
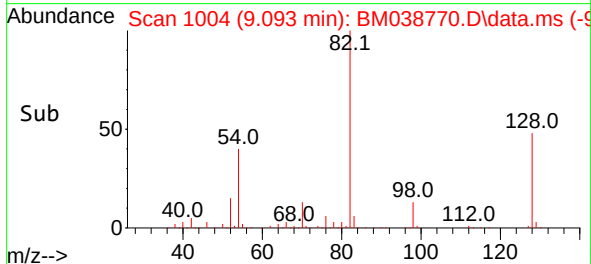
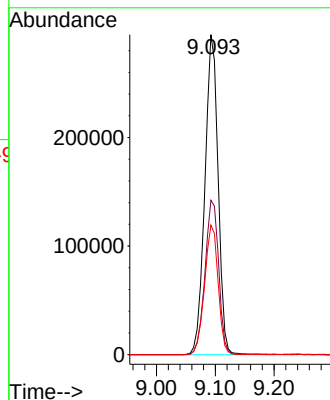
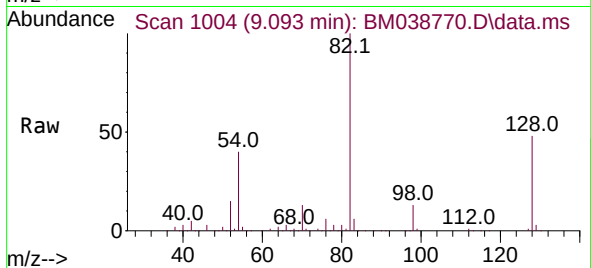
Tgt Ion: 82 Resp: 461513

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

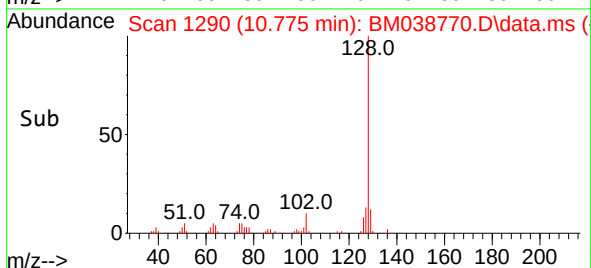
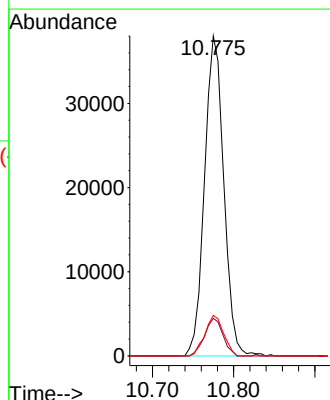
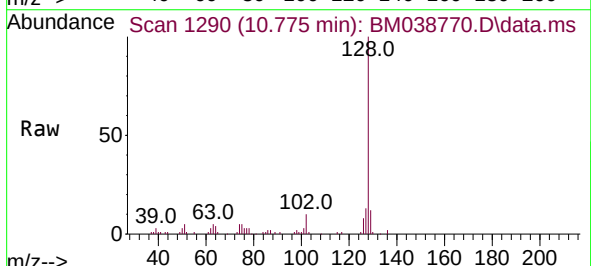
Tgt Ion: 128 Resp: 62689

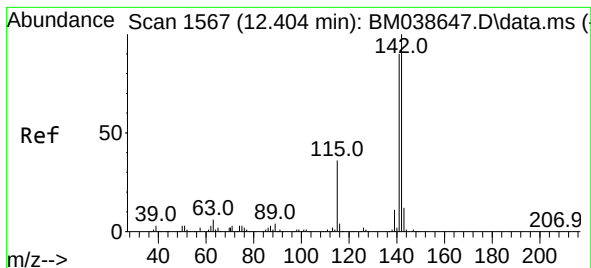
Ion Ratio Lower Upper

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

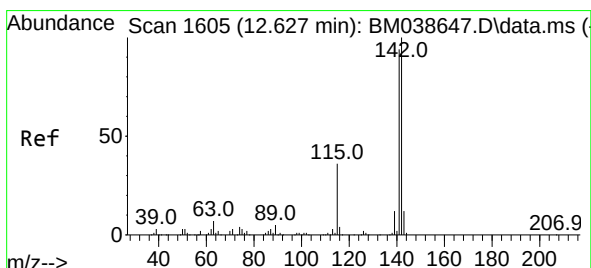
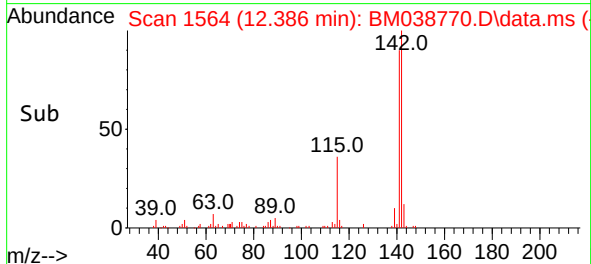
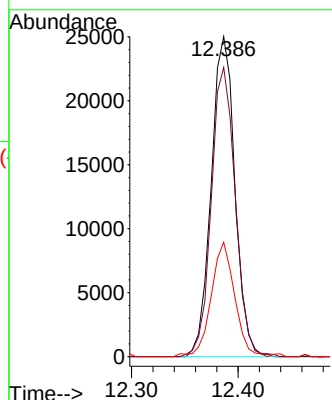
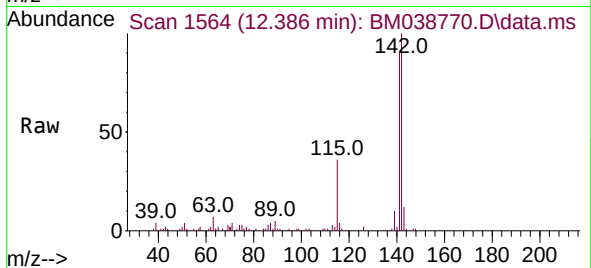
Tgt Ion:142 Resp: 38683

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

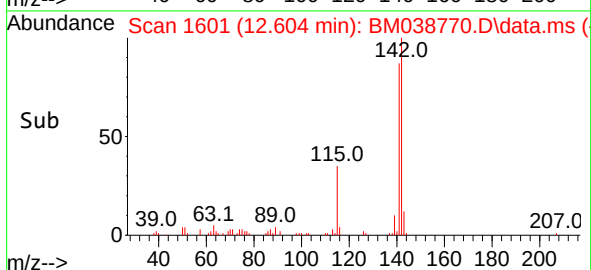
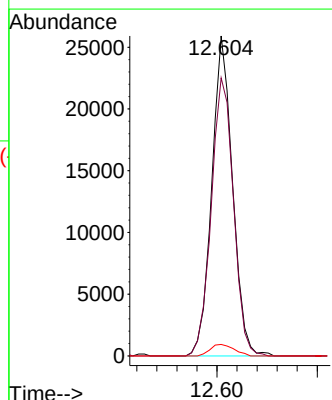
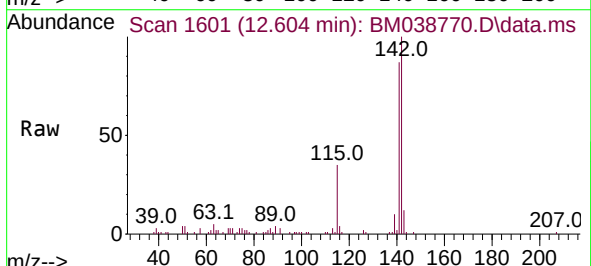
Tgt Ion:142 Resp: 37380

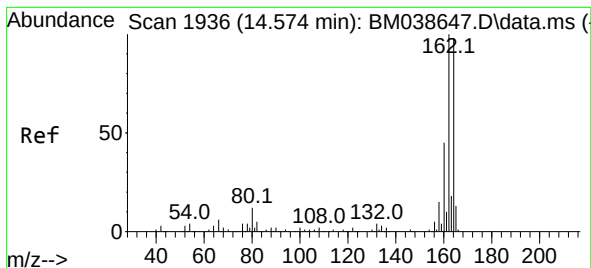
Ion Ratio Lower Upper

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

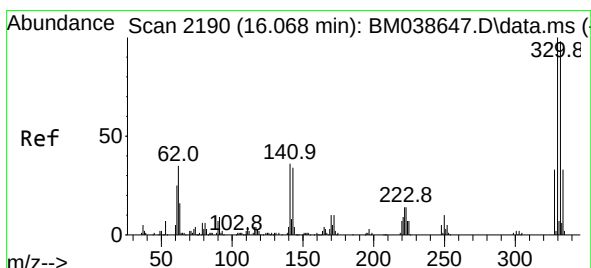
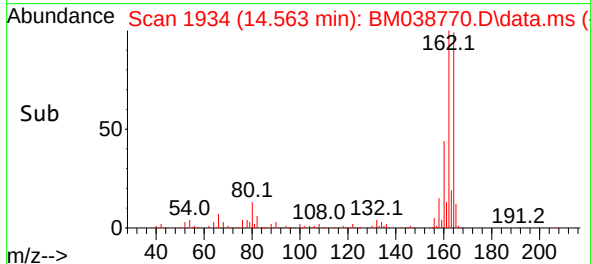
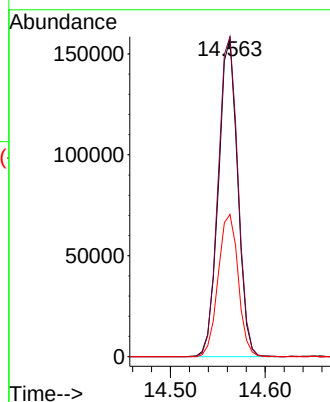
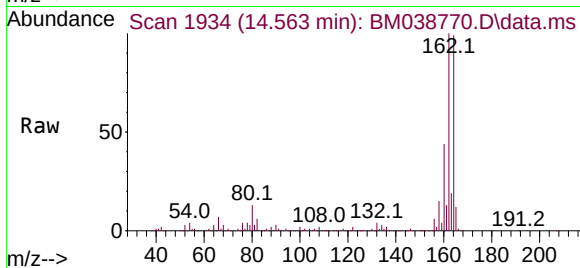
Tgt Ion:164 Resp: 222161

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

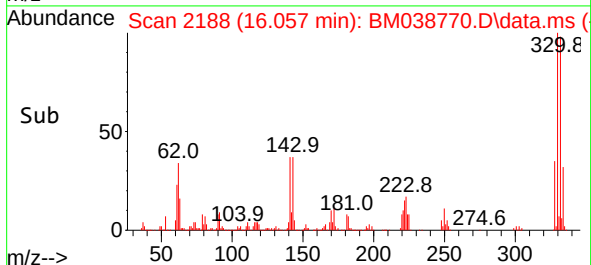
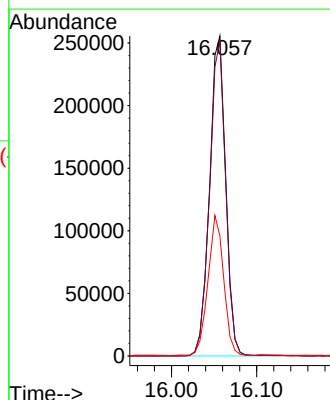
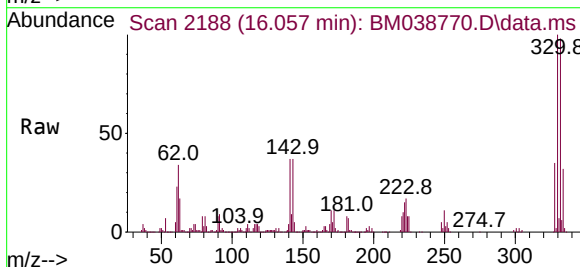
Tgt Ion:330 Resp: 335972

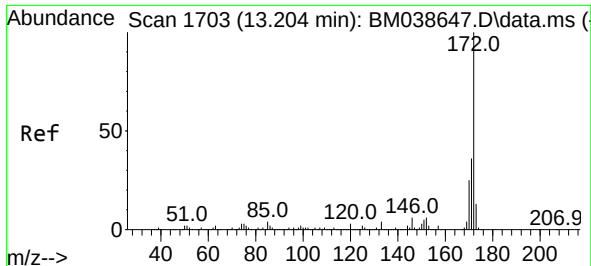
Ion Ratio Lower Upper

330 100

332 97.5 77.8 116.6

141 42.5 31.0 46.6

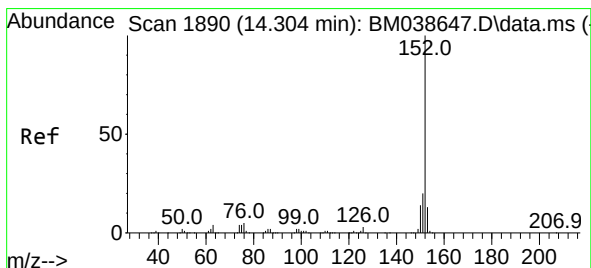
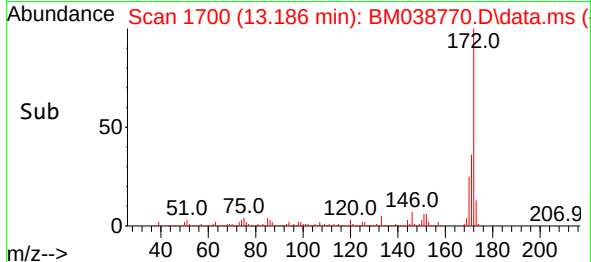
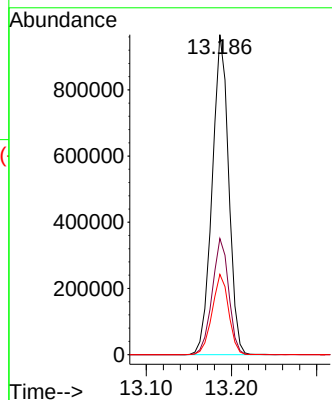
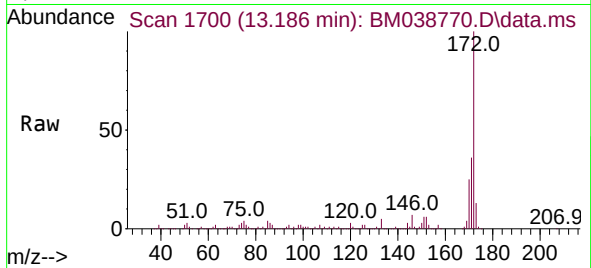




#45
2-Fluorobiphenyl
Concen: 74.441 ng
RT: 13.186 min Scan# 11
Delta R.T. 0.000 min
Lab File: BM038770.D
Acq: 16 Feb 2023 23:11

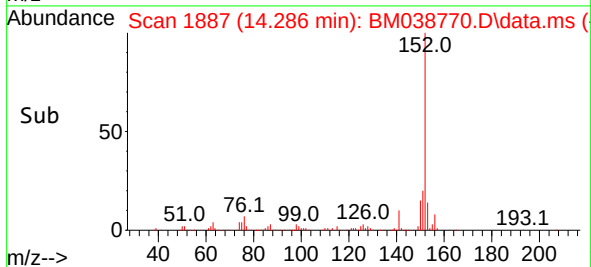
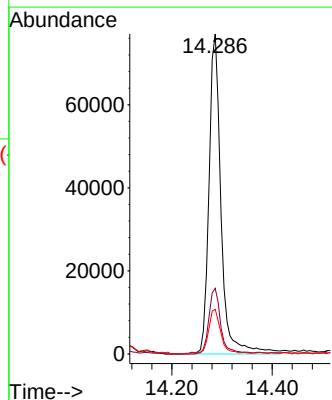
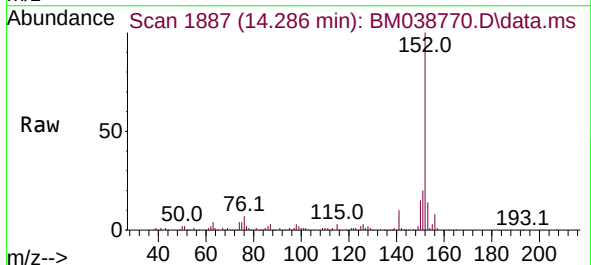
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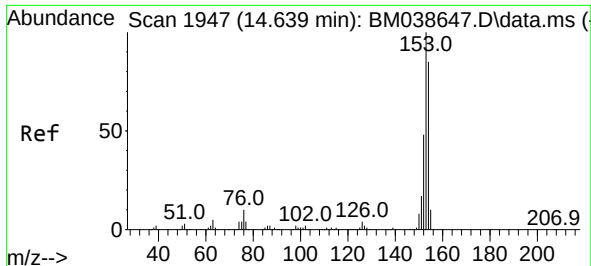
Tgt Ion:172 Resp: 1299020
Ion Ratio Lower Upper
172 100
171 36.3 28.7 43.1
170 25.1 20.0 30.0



#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

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

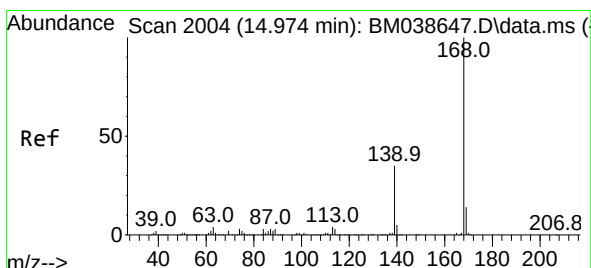
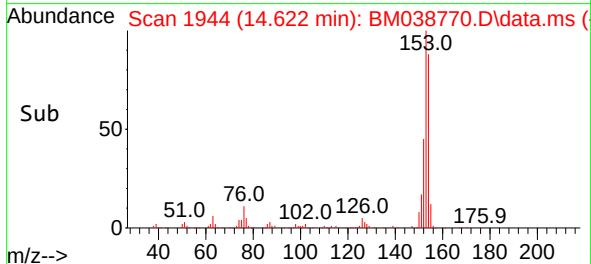
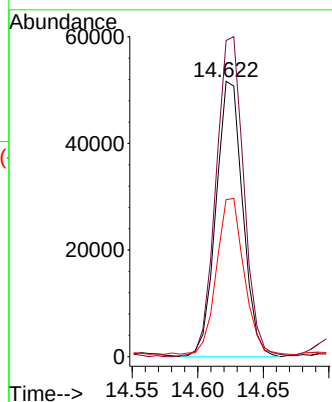
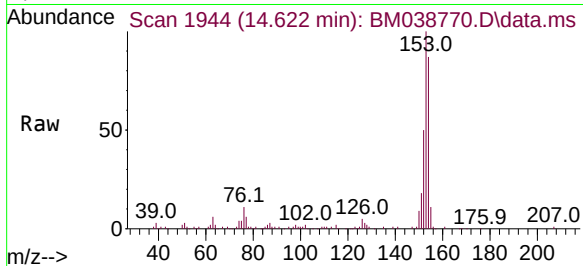




#52
Acenaphthene
Concen: 5.639 ng
RT: 14.622 min Scan# 1947
Delta R.T. -0.006 min
Lab File: BM038770.D
Acq: 16 Feb 2023 23:11

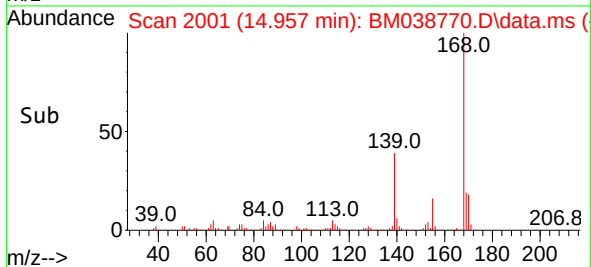
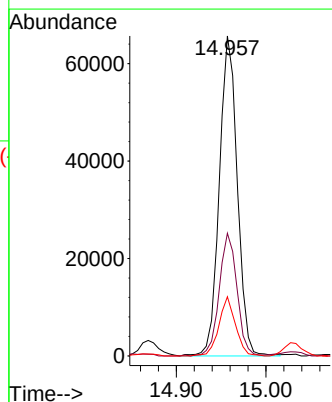
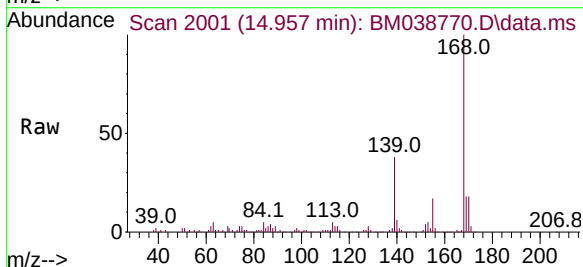
Instrument :
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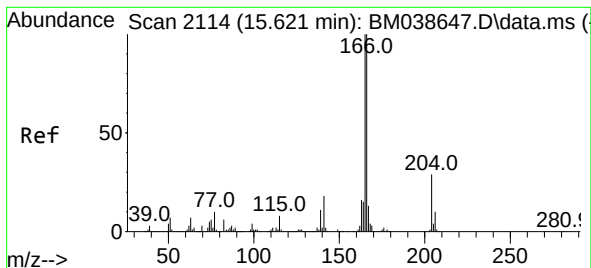
Tgt Ion:154 Resp: 73444
Ion Ratio Lower Upper
154 100
153 114.8 93.7 140.5
152 57.1 44.6 67.0



#55
Dibenzofuran
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

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

Instrument :

BNA_M

ClientSampleId :

OR-3-2142023

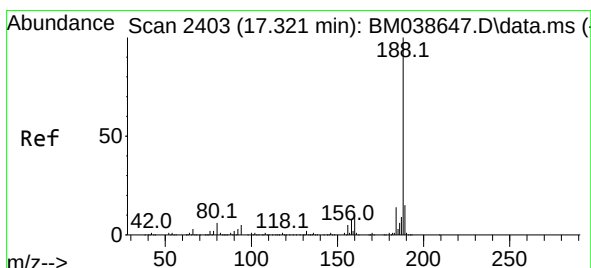
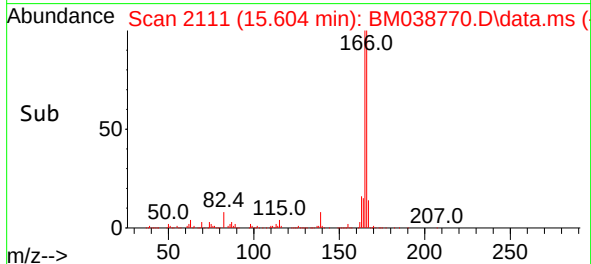
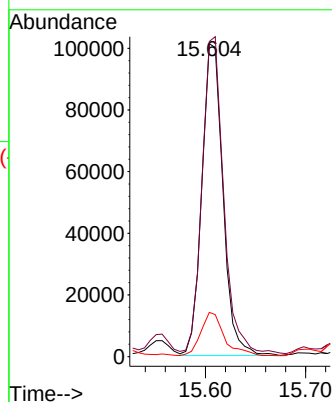
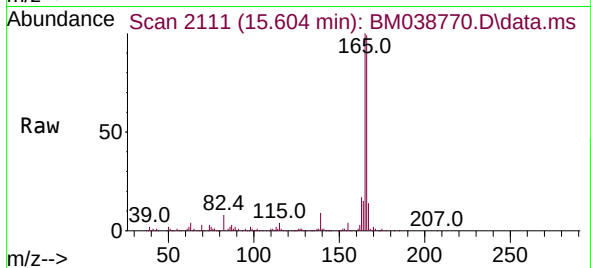
Tgt Ion:166 Resp: 147448

Ion Ratio Lower Upper

166 100

165 100.8 80.2 120.4

167 14.1 10.7 16.1



#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

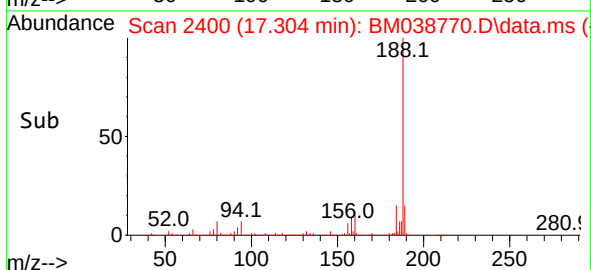
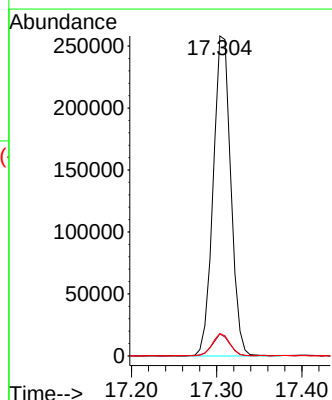
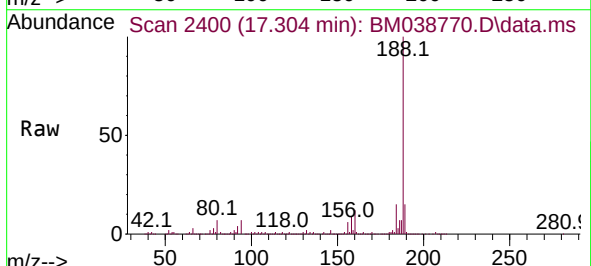
Tgt Ion:188 Resp: 370192

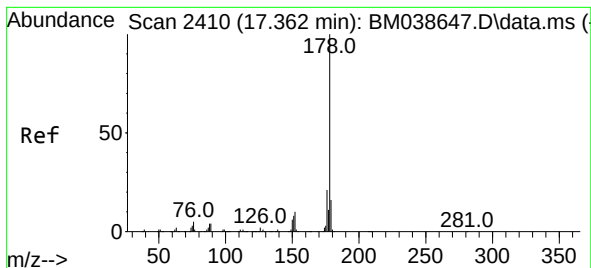
Ion Ratio Lower Upper

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

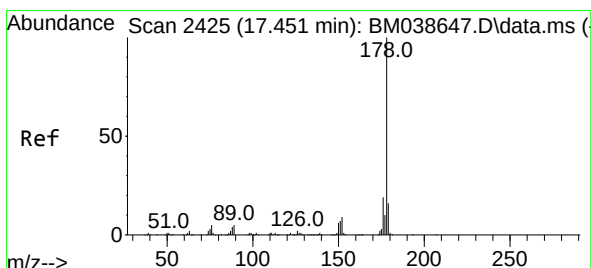
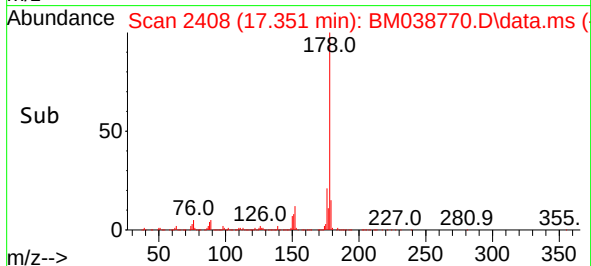
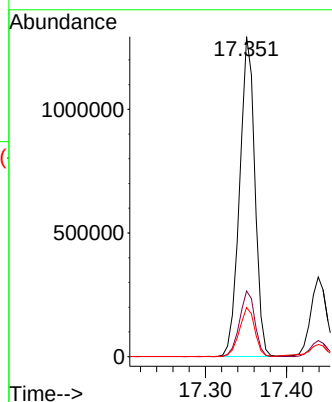
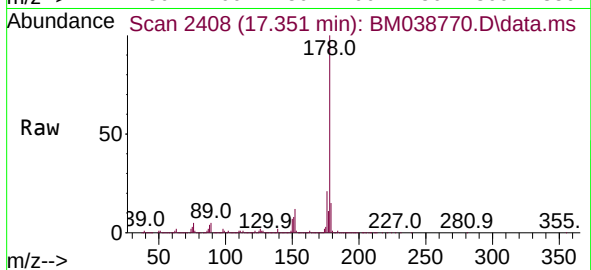
Tgt Ion:178 Resp: 1687713

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

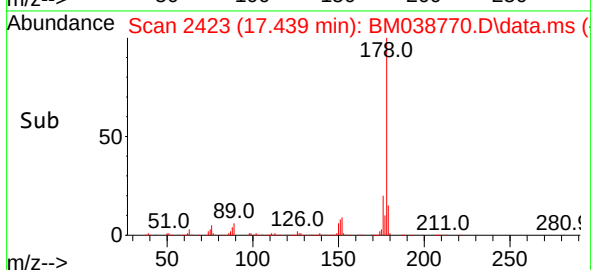
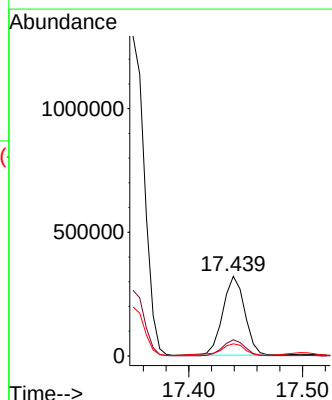
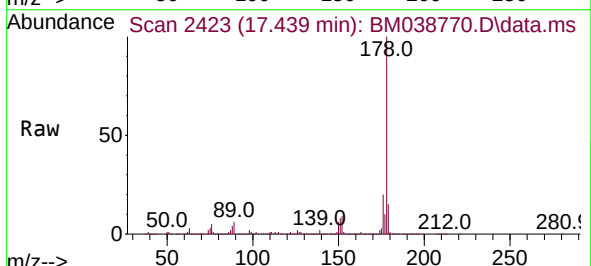
Tgt Ion:178 Resp: 428251

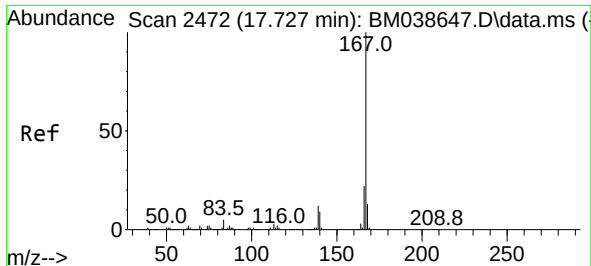
Ion Ratio Lower Upper

178 100

176 20.3 15.6 23.4

179 15.3 12.4 18.6

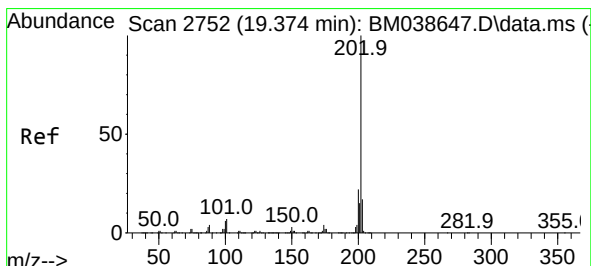
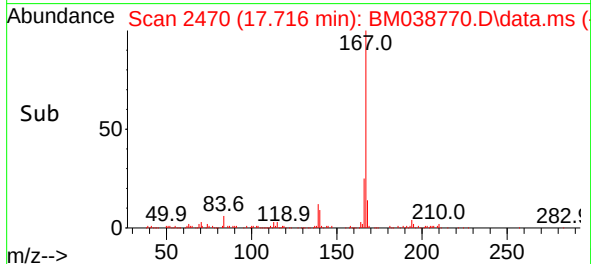
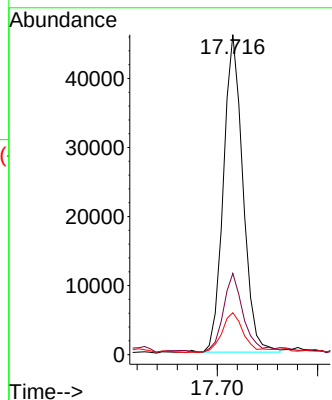
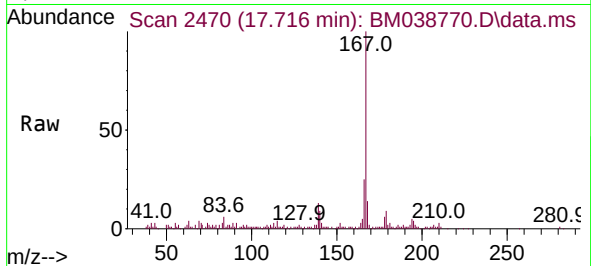




#73
 Carbazole
 Concen: 2.964 ng
 RT: 17.716 min Scan# 2472
 Delta R.T. 0.000 min
 Lab File: BM038770.D
 Acq: 16 Feb 2023 23:11

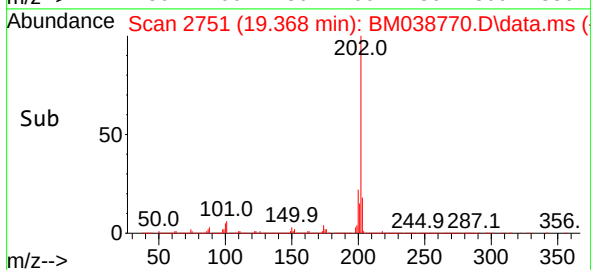
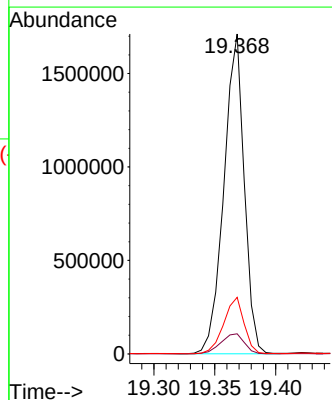
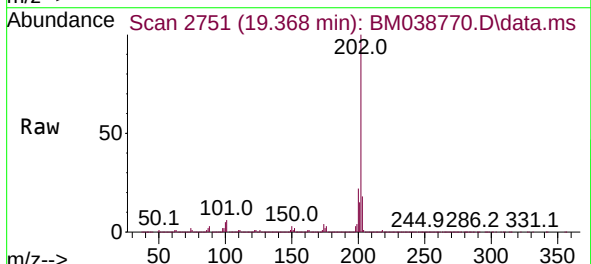
Instrument :
 BNA_M
 ClientSampleId :
 OR-3-2142023

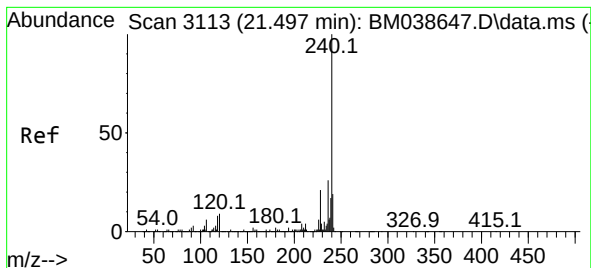
Tgt Ion:167 Resp: 62156
 Ion Ratio Lower Upper
 167 100
 166 25.4 17.8 26.6
 139 13.1 9.4 14.2



#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

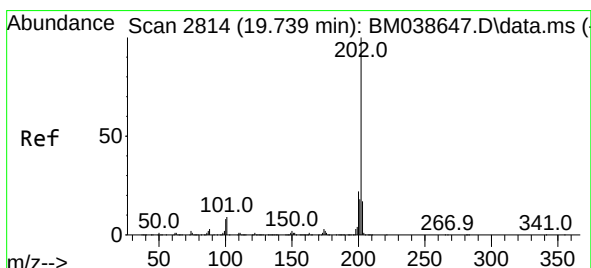
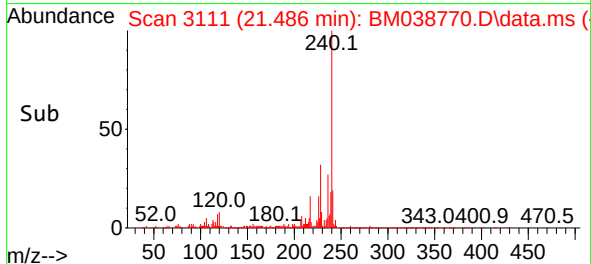
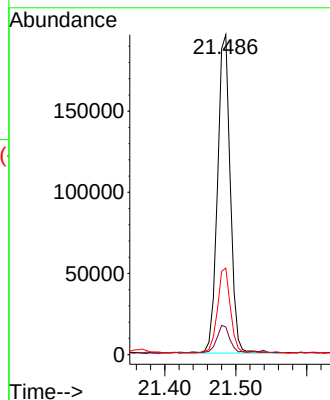
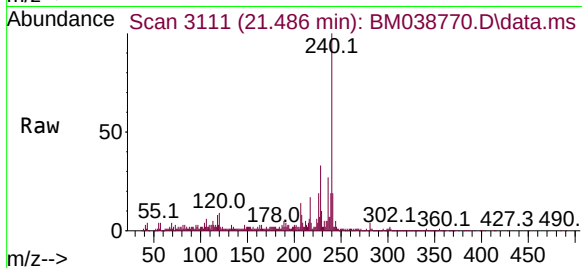
Tgt Ion:240 Resp: 244892

Ion Ratio Lower Upper

240 100

120 8.6 7.0 10.4

236 27.0 20.9 31.3



#78

Pyrene

Concen: 96.954 ng

RT: 19.727 min Scan# 2812

Delta R.T. 0.006 min

Lab File: BM038770.D

Acq: 16 Feb 2023 23:11

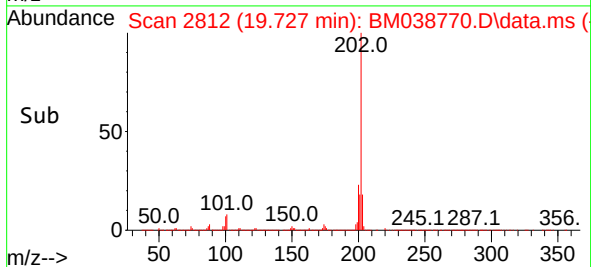
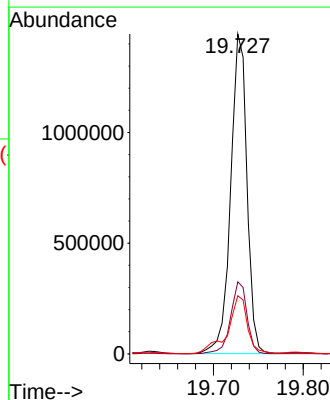
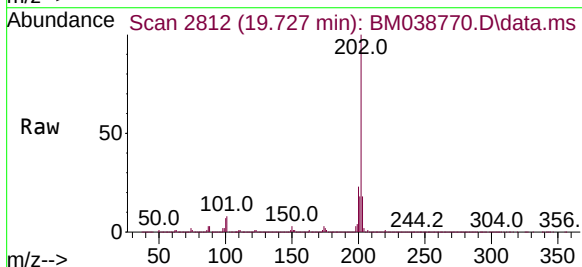
Tgt Ion:202 Resp: 1828001

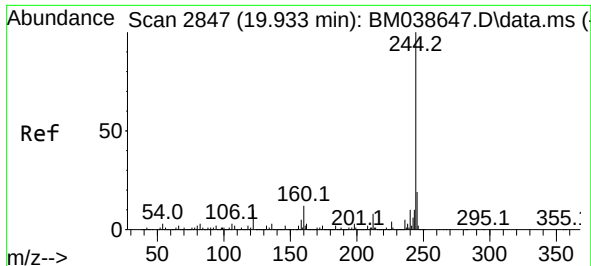
Ion Ratio Lower Upper

202 100

200 22.5 17.8 26.6

203 18.2 13.5 20.3

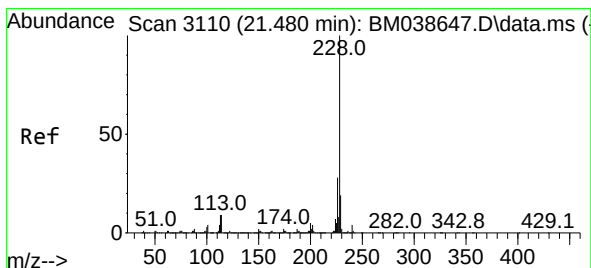
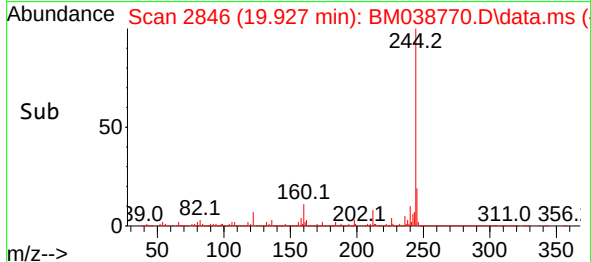
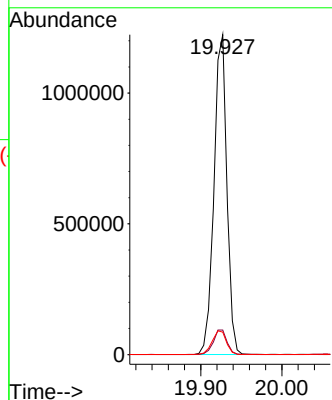
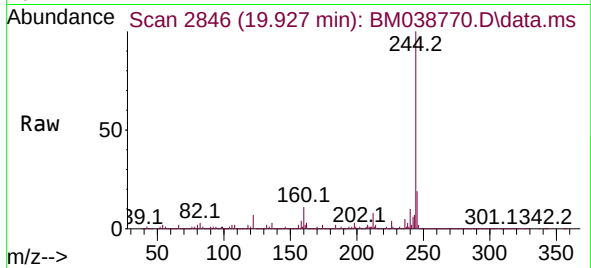




#79
 Terphenyl-d14
 Concen: 97.403 ng
 RT: 19.927 min Scan# 2847
 Delta R.T. 0.006 min
 Lab File: BM038770.D
 Acq: 16 Feb 2023 23:11

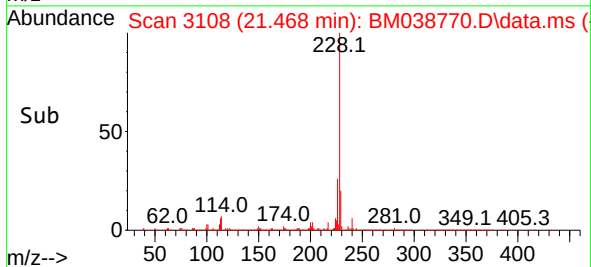
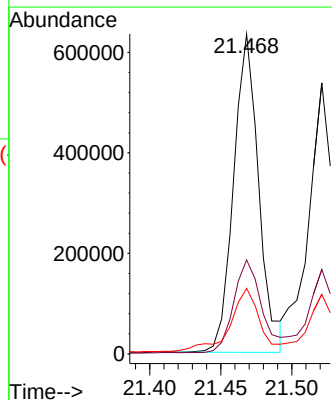
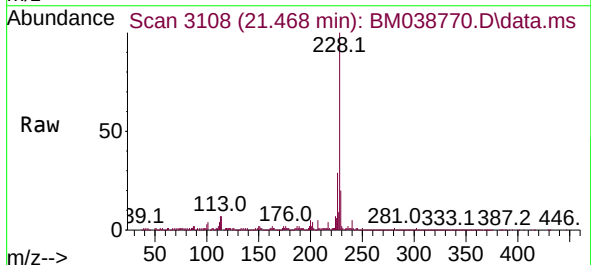
Instrument :
 BNA_M
 ClientSampleId :
 OR-3-2142023

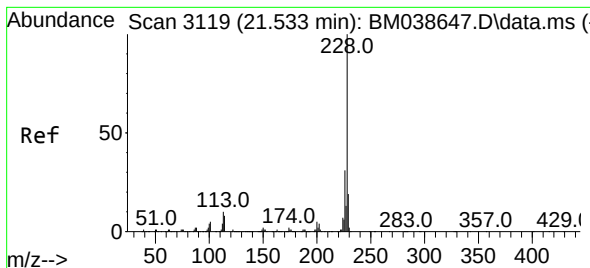
Tgt Ion:244 Resp: 1351713
 Ion Ratio Lower Upper
 244 100
 212 7.7 6.6 9.8
 122 7.0 7.8 11.8#



#81
 Benzo(a)anthracene
 Concen: 44.899 ng
 RT: 21.468 min Scan# 3108
 Delta R.T. 0.000 min
 Lab File: BM038770.D
 Acq: 16 Feb 2023 23:11

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# 3119

Delta R.T. 0.000 min

Lab File: BM038770.D

Acq: 16 Feb 2023 23:11

Instrument :

BNA_M

ClientSampleId :

OR-3-2142023

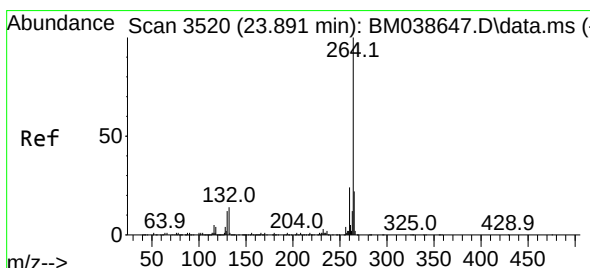
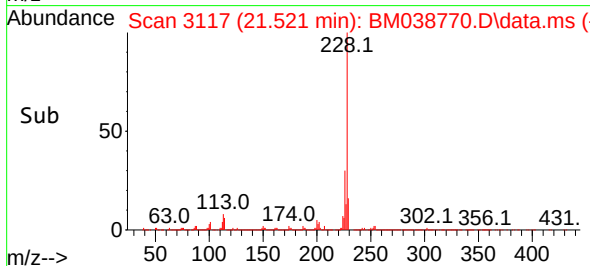
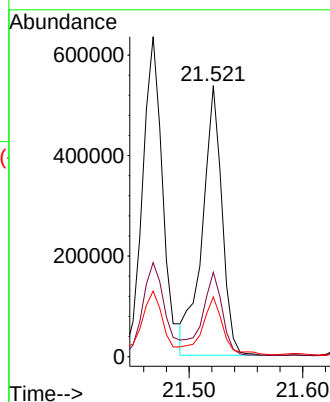
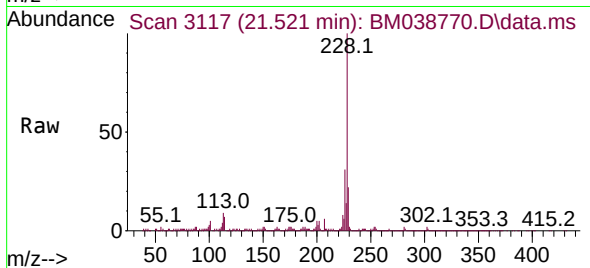
Tgt Ion:228 Resp: 645897

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# 3517

Delta R.T. 0.006 min

Lab File: BM038770.D

Acq: 16 Feb 2023 23:11

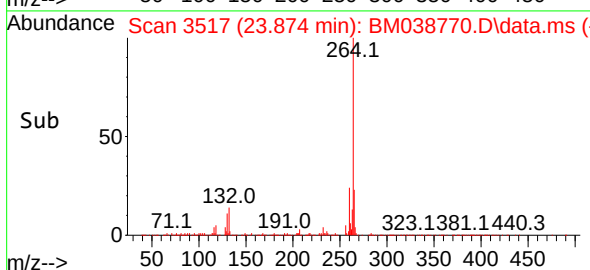
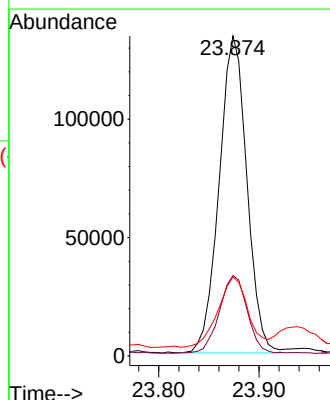
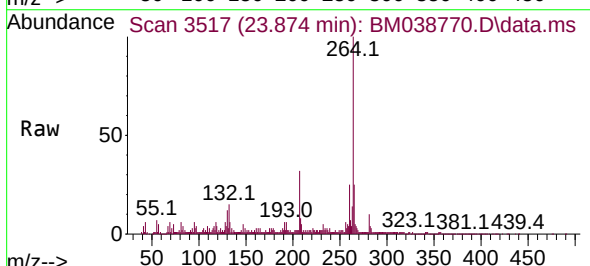
Tgt Ion:264 Resp: 257447

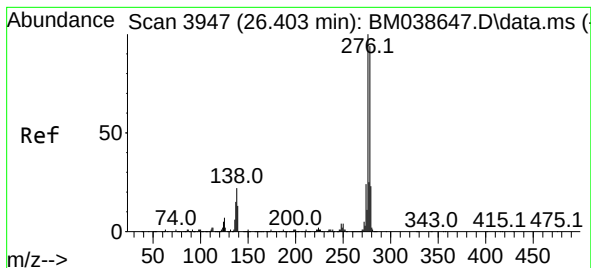
Ion Ratio Lower Upper

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

Instrument :

BNA_M

ClientSampleId :

OR-3-2142023

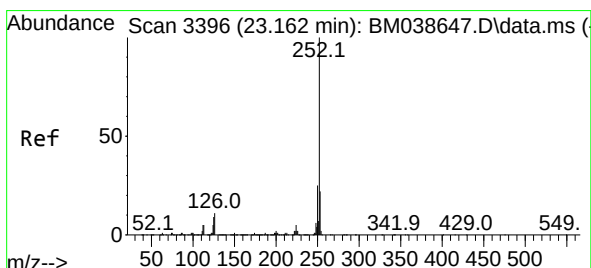
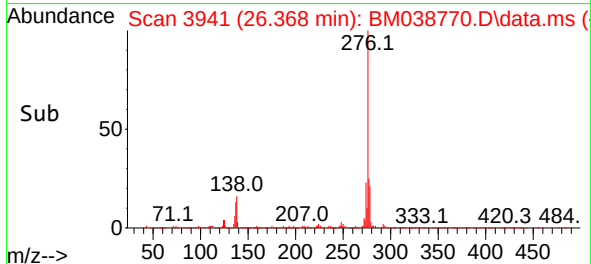
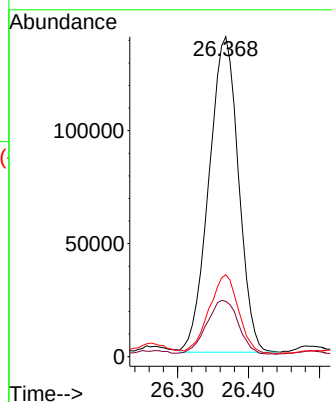
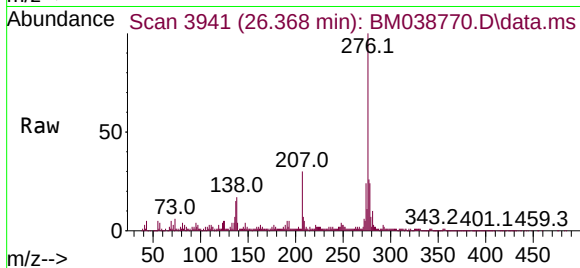
Tgt Ion:276 Resp: 404013

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

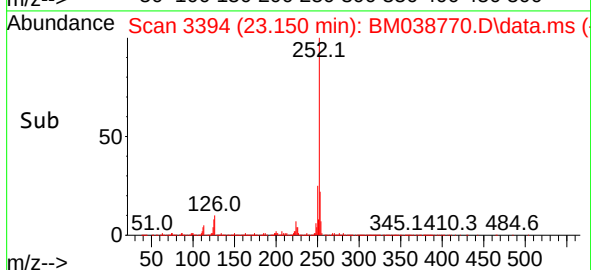
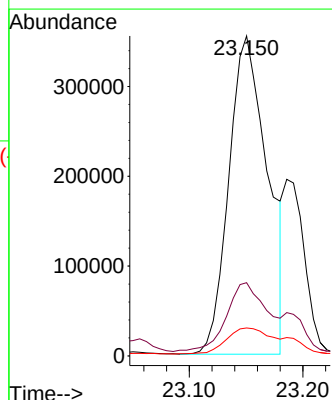
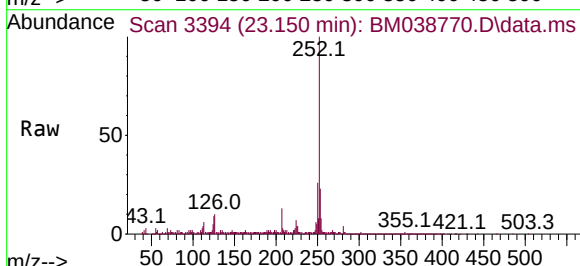
Tgt Ion:252 Resp: 838464

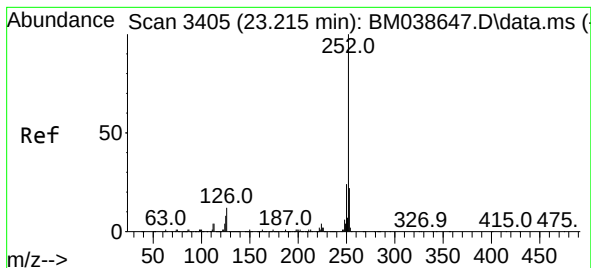
Ion Ratio Lower Upper

252 100

253 22.9 17.4 26.2

125 8.7 7.0 10.6





#89

Benzo(k)fluoranthene

Concen: 15.669 ng m

RT: 23.186 min Scan# 34

Delta R.T. 0.000 min

Lab File: BM038770.D

Acq: 16 Feb 2023 23:11

Instrument :

BNA_M

ClientSampleId :

OR-3-2142023

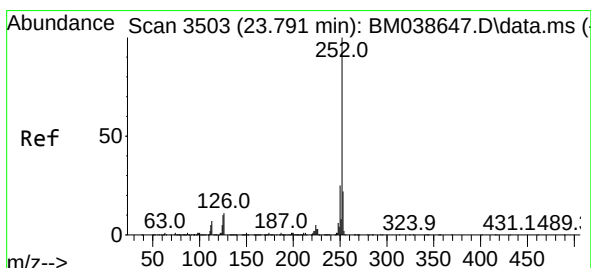
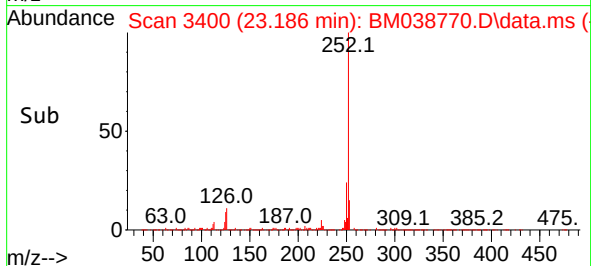
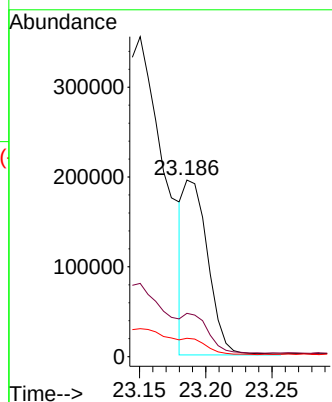
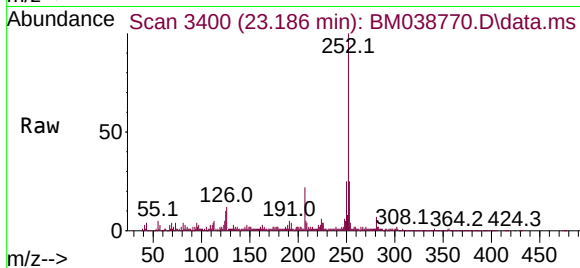
Tgt Ion:252 Resp: 245358

Ion Ratio Lower Upper

252 100

253 24.6 17.4 26.0

125 10.3 6.6 9.8#



#90

Benzo(a)pyrene

Concen: 41.909 ng

RT: 23.768 min Scan# 3499

Delta R.T. 0.006 min

Lab File: BM038770.D

Acq: 16 Feb 2023 23:11

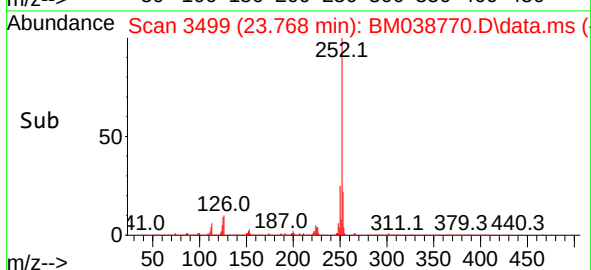
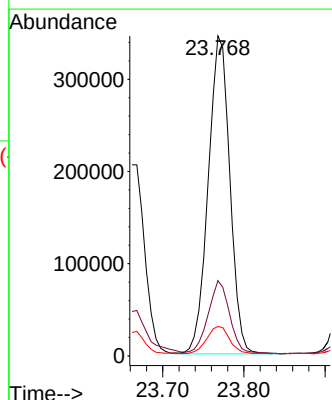
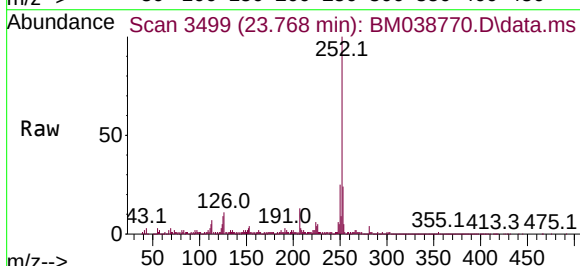
Tgt Ion:252 Resp: 639077

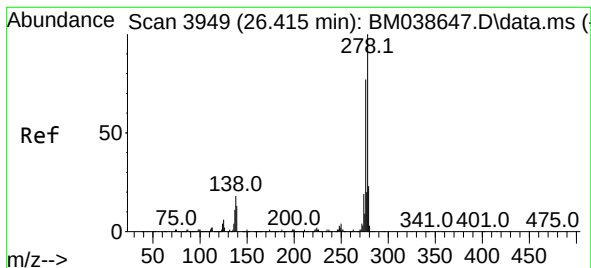
Ion Ratio Lower Upper

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# 3949

Delta R.T. 0.000 min

Lab File: BM038770.D

Acq: 16 Feb 2023 23:11

Instrument :

BNA_M

ClientSampleId :

OR-3-2142023

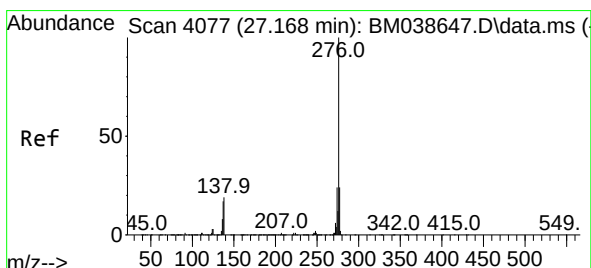
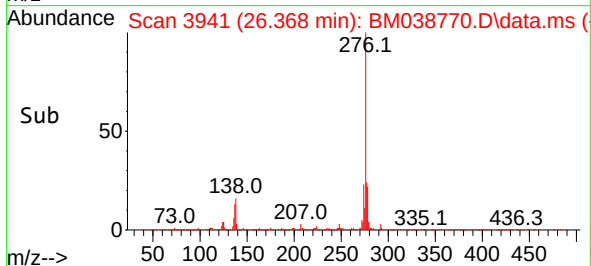
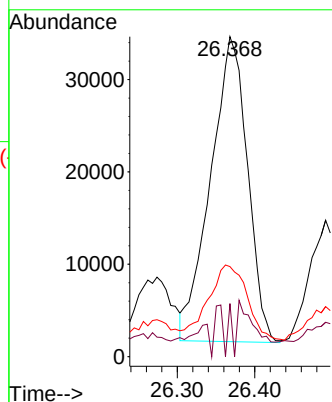
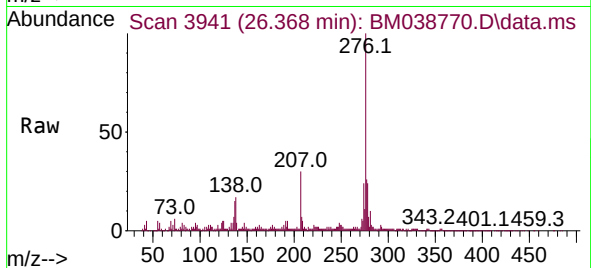
Tgt Ion:278 Resp: 109528

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

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

