

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM032323\
 Data File : BM039129.D
 Acq On : 23 Mar 2023 23:14
 Operator : CG/JU
 Sample : 01998-01
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 BROAD-CHANNEL-SUBSTATION-TP1

Quant Time: Mar 24 04:35:25 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM030823.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Mar 22 03:36:20 2023
 Response via : Initial Calibration

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

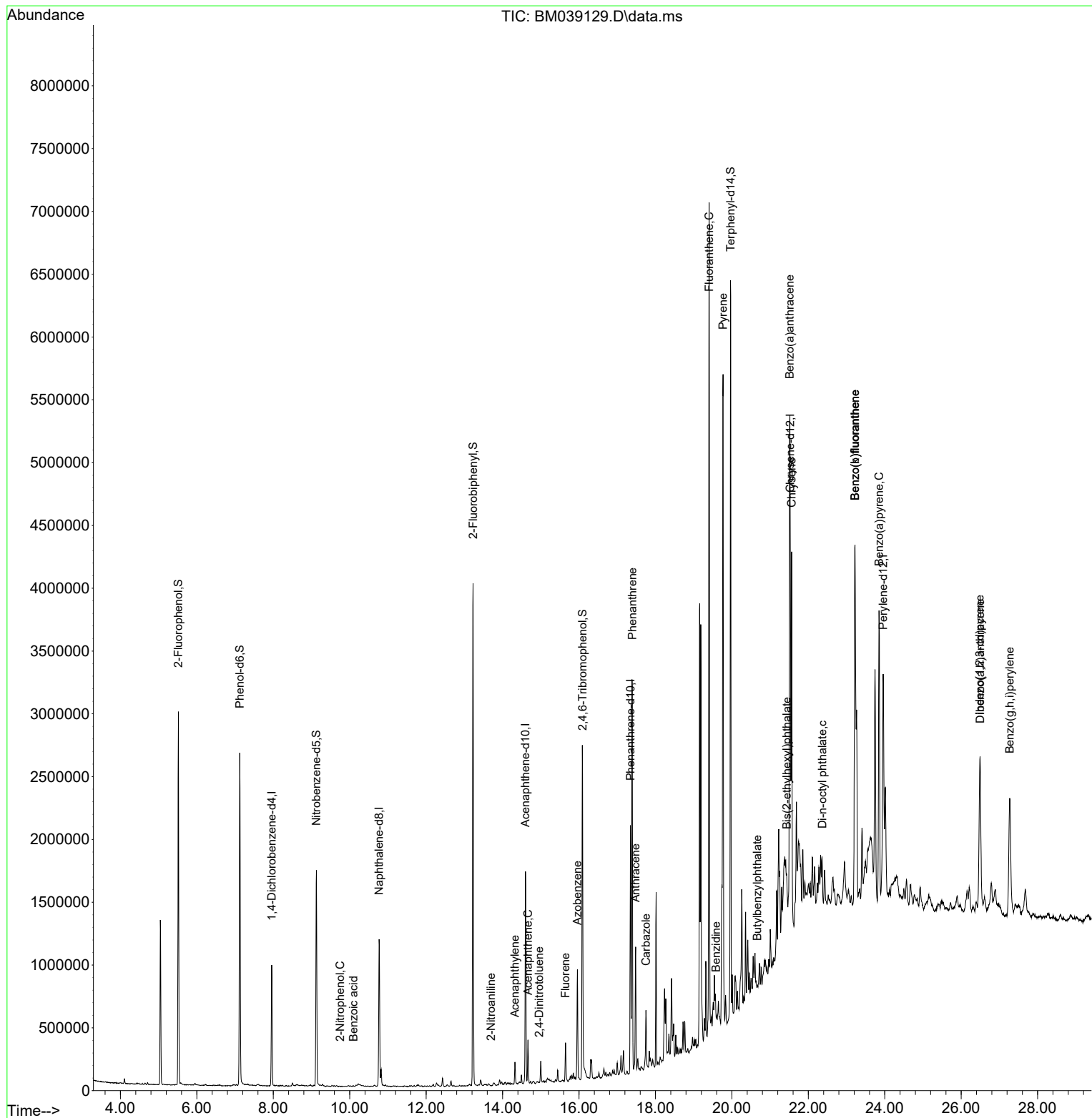
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.957	152	256113	20.000	ng	-0.01
21) Naphthalene-d8	10.769	136	1001436	20.000	ng	-0.01
39) Acenaphthene-d10	14.598	164	563148	20.000	ng	-0.01
64) Phenanthrene-d10	17.345	188	1146198	20.000	ng	0.00
76) Chrysene-d12	21.527	240	1011477	20.000	ng	0.00
86) Perylene-d12	23.956	264	1162018	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.516	112	1273917	75.570	ng	0.00
7) Phenol-d6	7.122	99	1594833	72.836	ng	0.00
23) Nitrobenzene-d5	9.128	82	1001614	49.130	ng	-0.01
42) 2,4,6-Tribromophenol	16.092	330	523851	80.410	ng	0.00
45) 2-Fluorobiphenyl	13.227	172	2039828	47.154	ng	0.00
79) Terphenyl-d14	19.968	244	2815585	50.894	ng	0.00
Target Compounds						
						Qvalue
26) 2-Nitrophenol	9.745	139	54	2.996	ng	# 1
32) Benzoic acid	10.098	122	159	5.744	ng	# 5
48) 2-Nitroaniline	13.698	65	111	2.225	ng	# 36
49) Acenaphthylene	14.322	152	131426	2.293	ng	98
52) Acenaphthene	14.663	154	119551	3.395	ng	98
57) 2,4-Dinitrotoluene	14.957	165	560	2.114	ng	# 83
58) Fluorene	15.645	166	138048	3.198	ng	99
63) Azobenzene	15.957	77	246233	5.519	ng	# 1
71) Phenanthrene	17.392	178	1899530	28.237	ng	100
72) Anthracene	17.480	178	599423	8.935	ng	99
73) Carbazole	17.751	167	288070	4.705	ng	99
75) Fluoranthene	19.404	202	3591055	50.558	ng	98
77) Benzidine	19.586	184	999	4.915	ng	# 1
78) Pyrene	19.768	202	3252925	42.818	ng	100
80) Butylbenzylphthalate	20.662	149	669	3.335	ng	# 26
81) Benzo(a)anthracene	21.509	228	1777522	24.403	ng	97
83) Chrysene	21.562	228	1681470	23.735	ng	98
84) Bis(2-ethylhexyl)phtha...	21.433	149	93460	4.382	ng	93
85) Di-n-octyl phthalate	22.368	149	3491	3.838	ng	# 68
87) Indeno(1,2,3-cd)pyrene	26.485	276	1282874	14.509	ng	96
88) Benzo(b)fluoranthene	23.221	252	2672252	35.996	ng	98
89) Benzo(k)fluoranthene	23.221	252	2672252	34.588	ng	98
90) Benzo(a)pyrene	23.850	252	1727441	24.178	ng	99
91) Dibenzo(a,h)anthracene	26.497	278	337314	4.505	ng	# 89
92) Benzo(g,h,i)perylene	27.268	276	1256577	17.152	ng	99

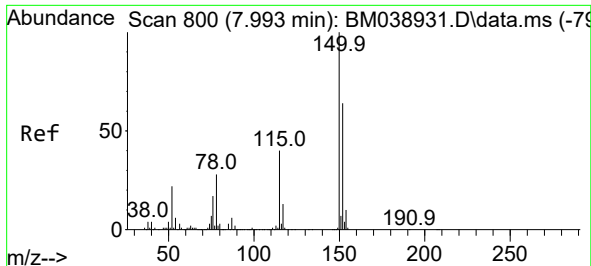
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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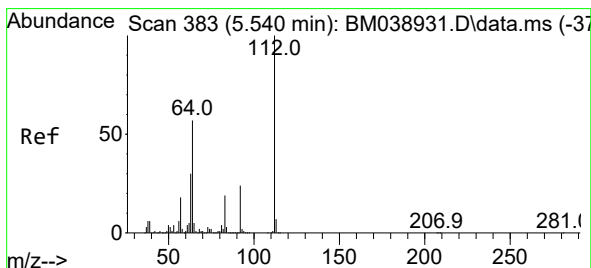
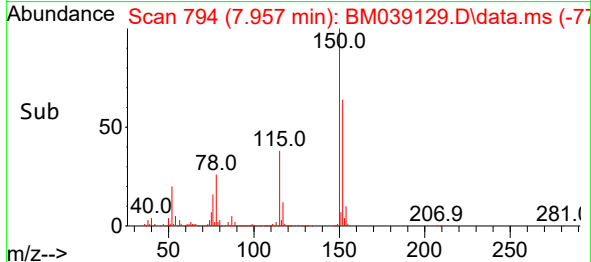
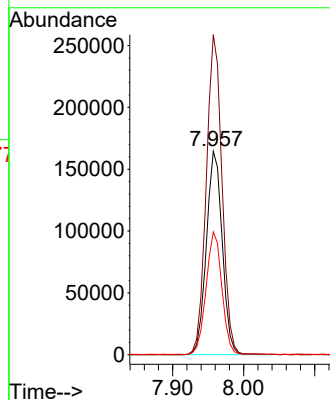
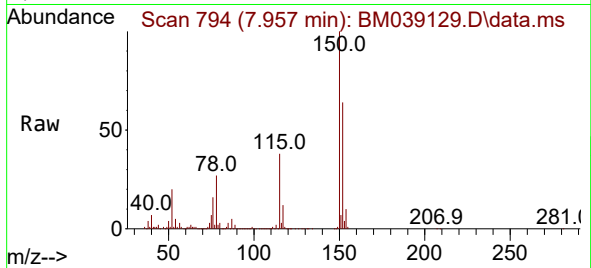




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.957 min Scan# 794
Delta R.T. -0.012 min
Lab File: BM039129.D
Acq: 23 Mar 2023 23:14

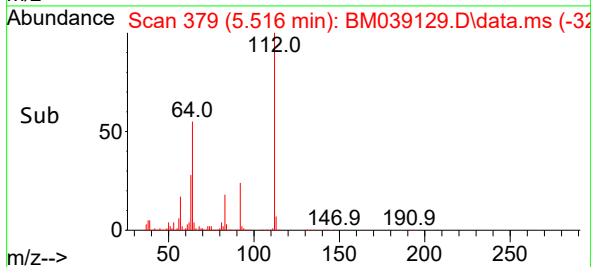
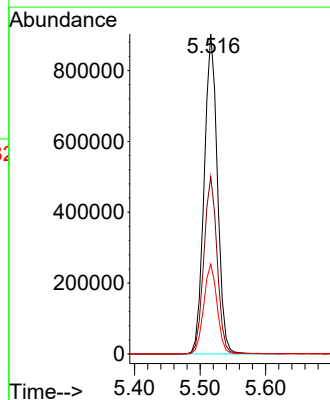
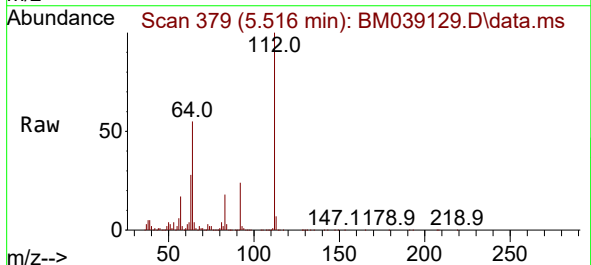
Instrument :
BNA_M
ClientSampleId :
BROAD-CHANNEL-SUBSTATION-TP1

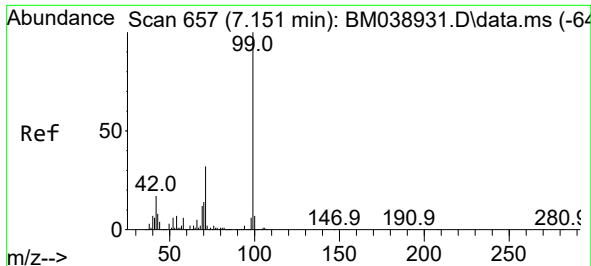
Tgt Ion:152 Resp: 256113
Ion Ratio Lower Upper
152 100
150 157.3 125.1 187.7
115 60.4 49.6 74.4



#5
2-Fluorophenol
Concen: 75.570 ng
RT: 5.516 min Scan# 379
Delta R.T. -0.006 min
Lab File: BM039129.D
Acq: 23 Mar 2023 23:14

Tgt Ion:112 Resp: 1273917
Ion Ratio Lower Upper
112 100
64 55.5 45.9 68.9
63 28.1 23.8 35.8

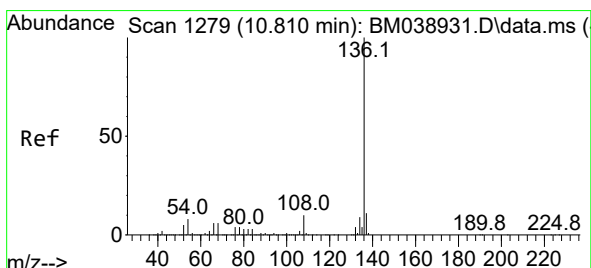
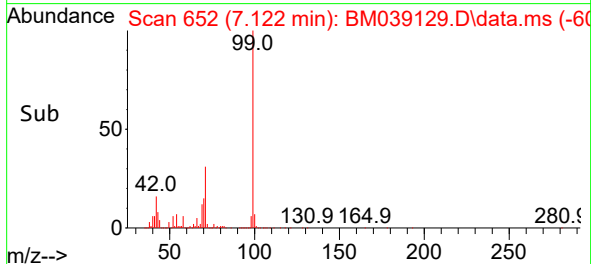
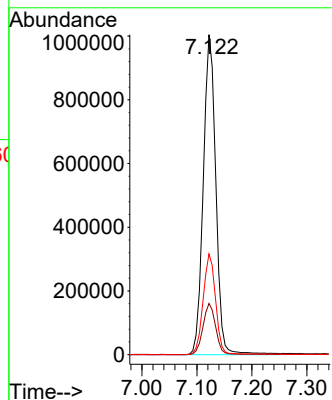
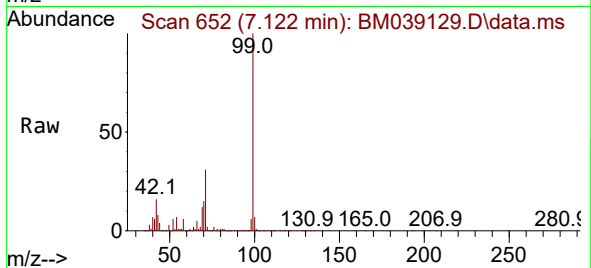




#7
Phenol-d6
Concen: 72.836 ng
RT: 7.122 min Scan# 61
Delta R.T. -0.006 min
Lab File: BM039129.D
Acq: 23 Mar 2023 23:14

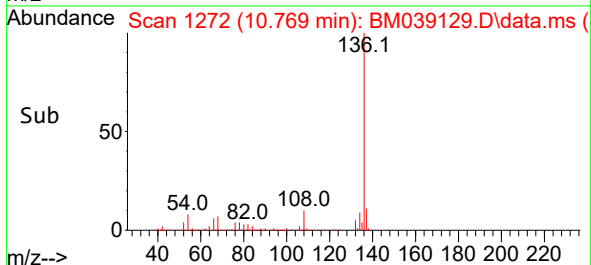
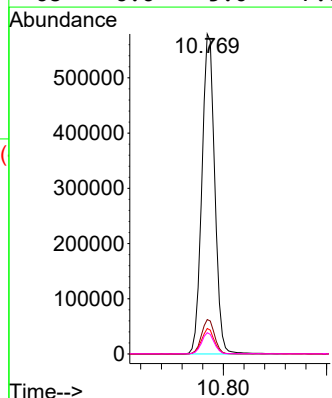
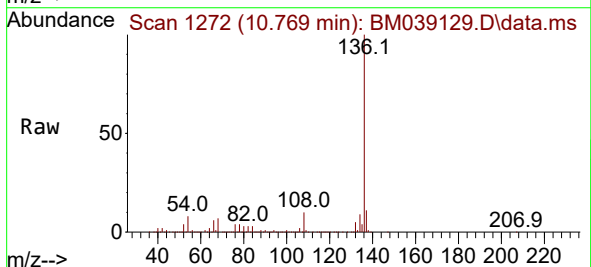
Instrument :
BNA_M
ClientSampleId :
BROAD-CHANNEL-SUBSTATION-TP1

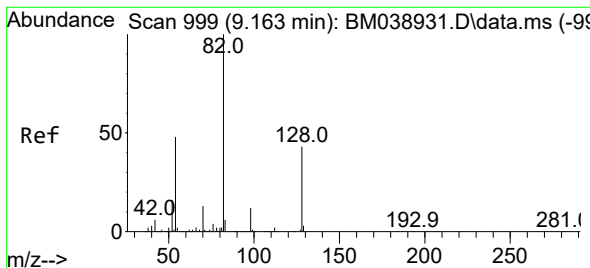
Tgt Ion: 99 Resp: 1594833
Ion Ratio Lower Upper
99 100
42 16.0 13.5 20.3
71 31.5 25.6 38.4



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.769 min Scan# 1272
Delta R.T. -0.012 min
Lab File: BM039129.D
Acq: 23 Mar 2023 23:14

Tgt Ion: 136 Resp: 1001436
Ion Ratio Lower Upper
136 100
137 10.8 8.7 13.1
54 8.0 6.3 9.5
68 6.6 5.0 7.6





#23

Nitrobenzene-d5

Concen: 49.130 ng

RT: 9.128 min Scan# 91

Delta R.T. -0.012 min

Lab File: BM039129.D

Acq: 23 Mar 2023 23:14

Instrument :

BNA_M

ClientSampleId :

BROAD-CHANNEL-SUBSTATION-TP1

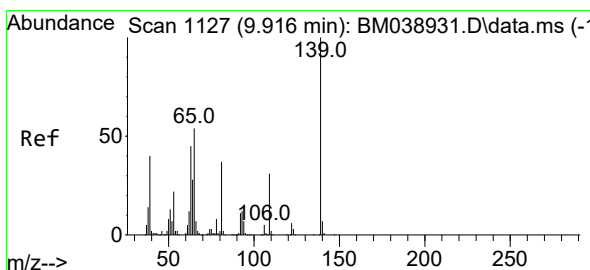
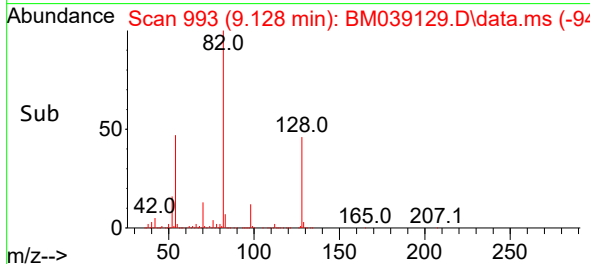
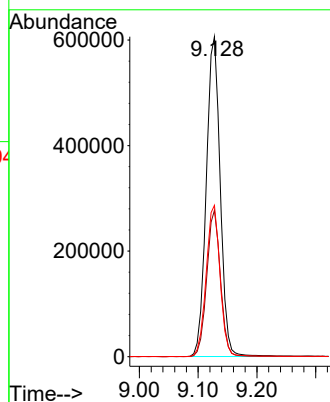
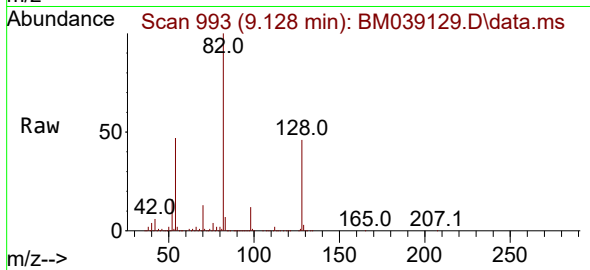
Tgt Ion: 82 Resp: 1001614

Ion Ratio Lower Upper

82 100

128 45.7 34.4 51.6

54 47.3 38.8 58.2



#26

2-Nitrophenol

Concen: 2.996 ng

RT: 9.745 min Scan# 1098

Delta R.T. -0.147 min

Lab File: BM039129.D

Acq: 23 Mar 2023 23:14

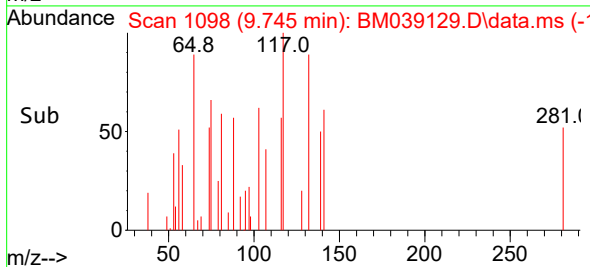
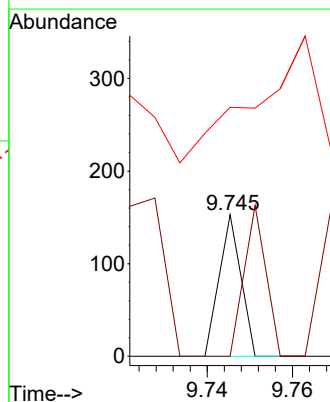
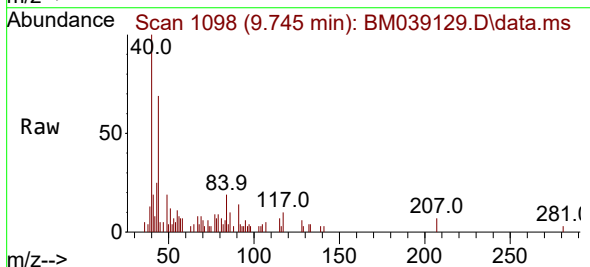
Tgt Ion:139 Resp: 54

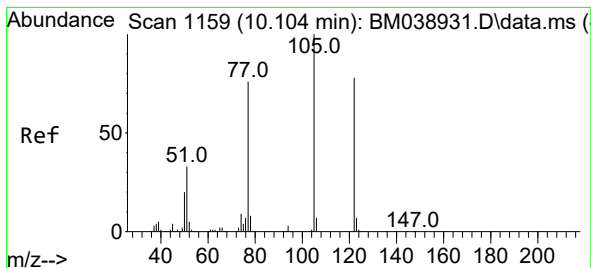
Ion Ratio Lower Upper

139 100

109 0.0 24.5 36.7#

65 175.8 43.0 64.6#





#32

Benzoic acid

Concen: 5.744 ng

RT: 10.098 min Scan# 1159

Delta R.T. 0.012 min

Lab File: BM039129.D

Acq: 23 Mar 2023 23:14

Instrument :

BNA_M

ClientSampleId :

BROAD-CHANNEL-SUBSTATION-TP1

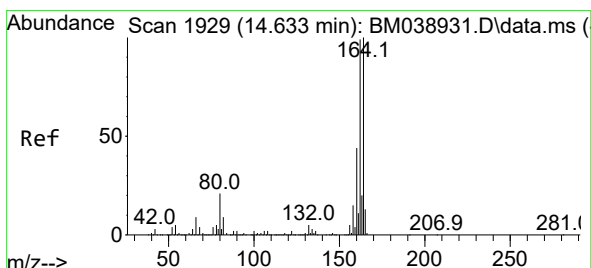
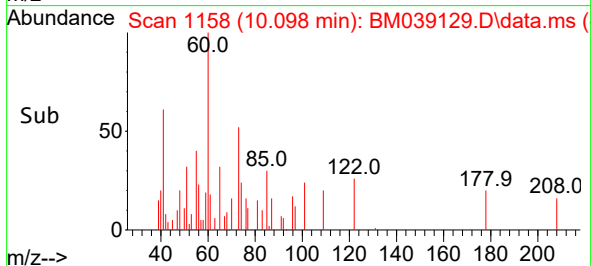
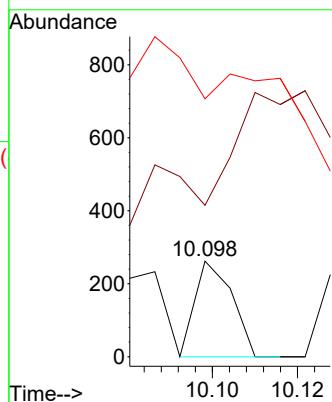
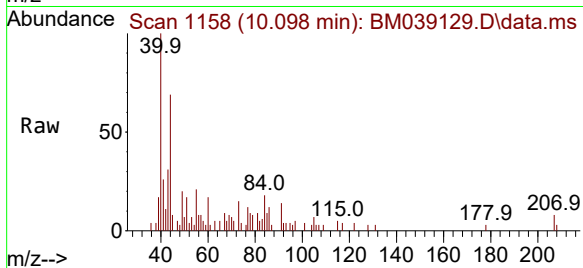
Tgt Ion:122 Resp: 159

Ion Ratio Lower Upper

122 100

105 158.4 104.2 144.2#

77 269.8 75.1 115.1#



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 14.598 min Scan# 1923

Delta R.T. -0.012 min

Lab File: BM039129.D

Acq: 23 Mar 2023 23:14

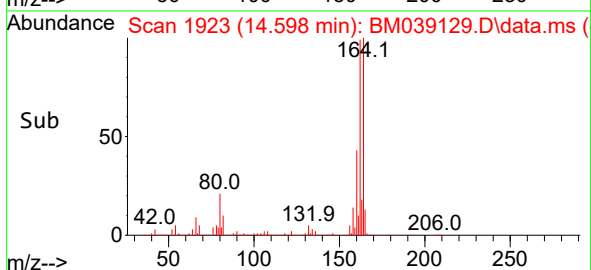
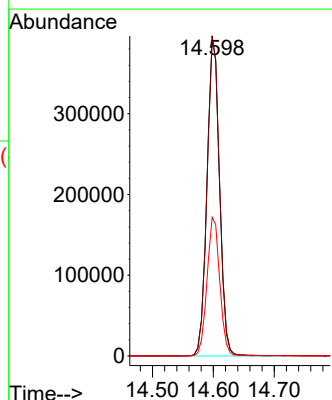
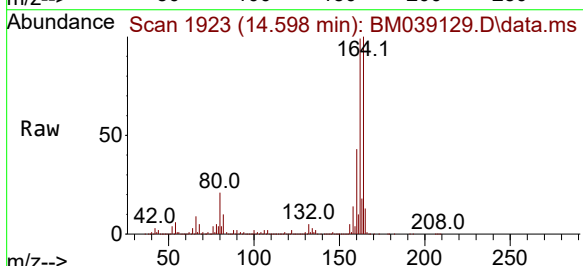
Tgt Ion:164 Resp: 563148

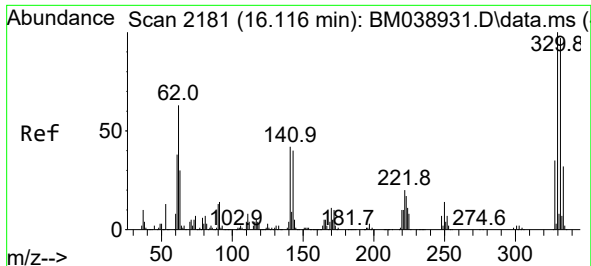
Ion Ratio Lower Upper

164 100

162 99.2 79.2 118.8

160 43.4 35.5 53.3

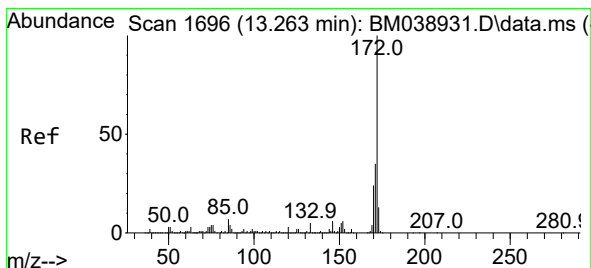
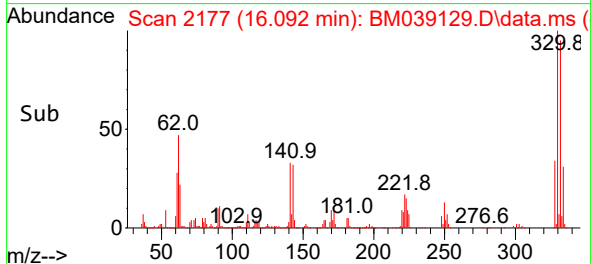
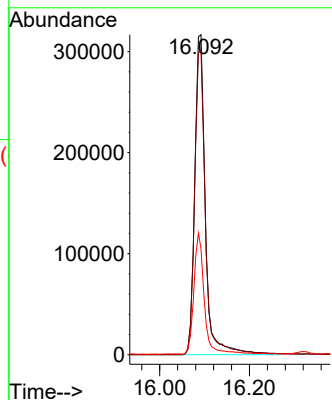
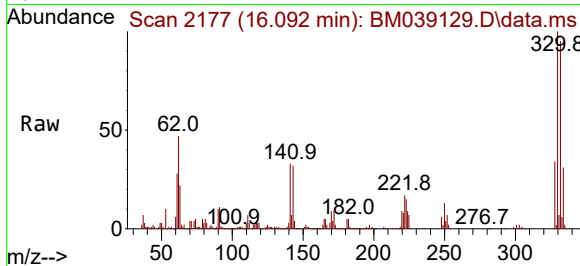




#42
2,4,6-Tribromophenol
Concen: 80.410 ng
RT: 16.092 min Scan# 2181
Delta R.T. -0.006 min
Lab File: BM039129.D
Acq: 23 Mar 2023 23:14

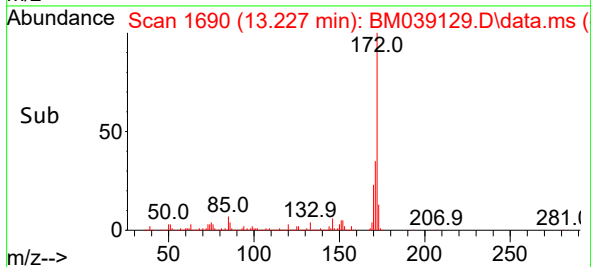
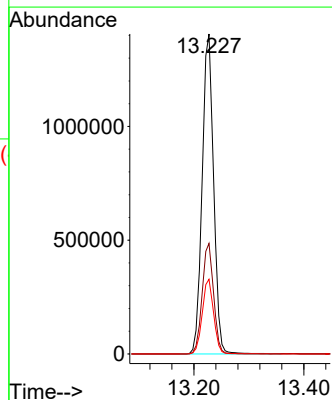
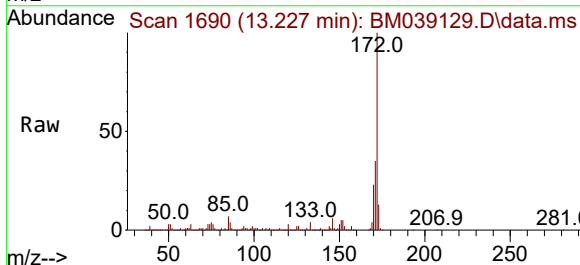
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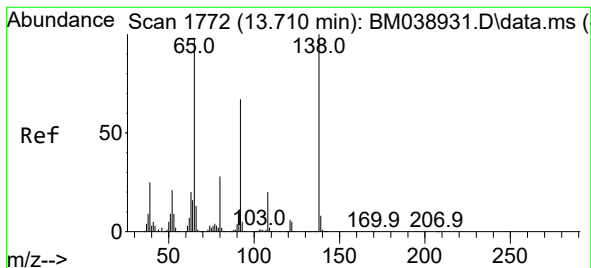
Tgt Ion:330 Resp: 523851
Ion Ratio Lower Upper
330 100
332 96.7 77.4 116.0
141 36.6 32.2 48.4



#45
2-Fluorobiphenyl
Concen: 47.154 ng
RT: 13.227 min Scan# 1690
Delta R.T. -0.006 min
Lab File: BM039129.D
Acq: 23 Mar 2023 23:14

Tgt Ion:172 Resp: 2039828
Ion Ratio Lower Upper
172 100
171 34.5 28.2 42.2
170 23.4 19.1 28.7





#48

2-Nitroaniline

Concen: 2.225 ng

RT: 13.698 min Scan# 1

Delta R.T. 0.006 min

Lab File: BM039129.D

Acq: 23 Mar 2023 23:14

Instrument :

BNA_M

ClientSampleId :

BROAD-CHANNEL-SUBSTATION-TP1

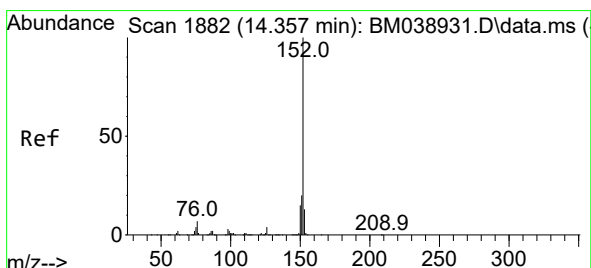
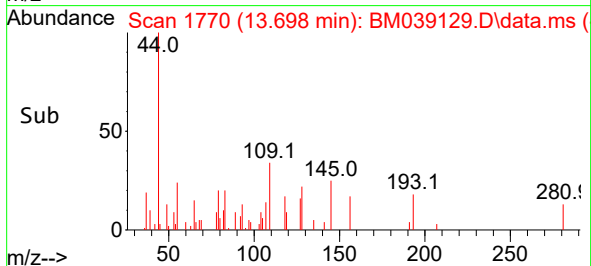
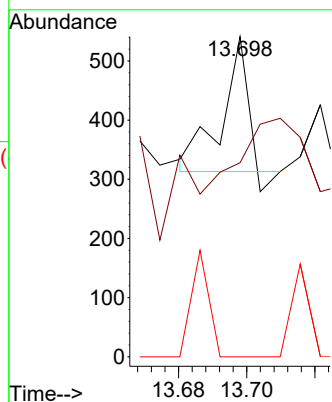
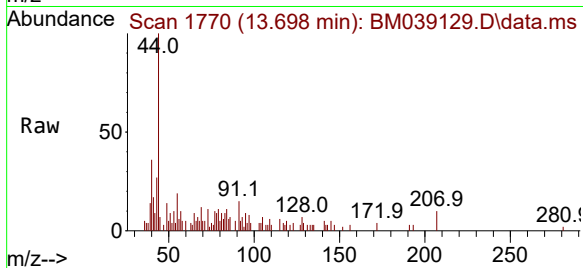
Tgt Ion: 65 Resp: 111

Ion Ratio Lower Upper

65 100

92 60.6 54.9 82.3

138 0.0 81.6 122.4#



#49

Acenaphthylene

Concen: 2.293 ng

RT: 14.322 min Scan# 1876

Delta R.T. -0.012 min

Lab File: BM039129.D

Acq: 23 Mar 2023 23:14

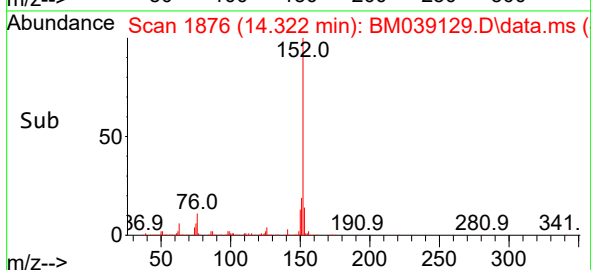
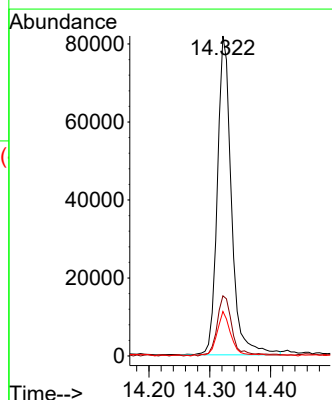
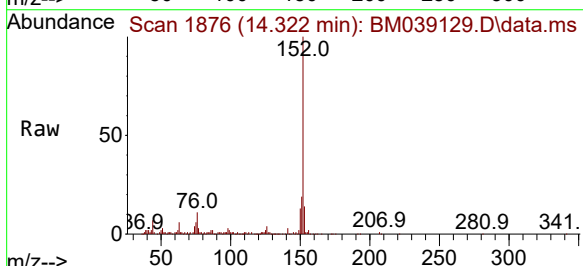
Tgt Ion:152 Resp: 131426

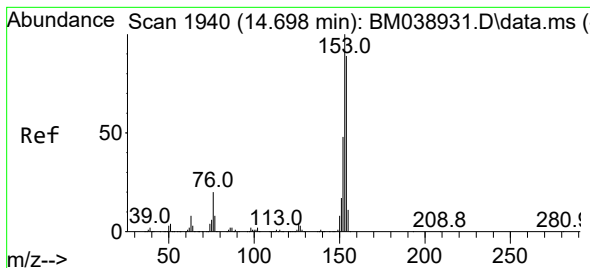
Ion Ratio Lower Upper

152 100

151 18.8 15.8 23.8

153 13.9 10.4 15.6





#52

Acenaphthene

Concen: 3.395 ng

RT: 14.663 min Scan# 1934

Delta R.T. -0.012 min

Lab File: BM039129.D

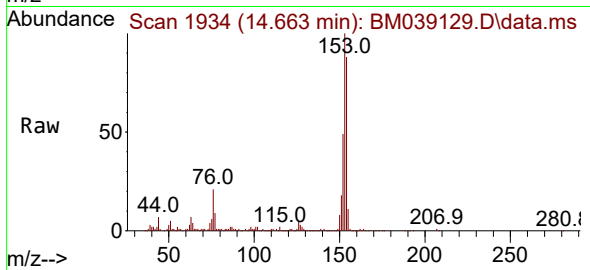
Acq: 23 Mar 2023 23:14

Instrument :

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ClientSampleId :

BROAD-CHANNEL-SUBSTATION-TP1



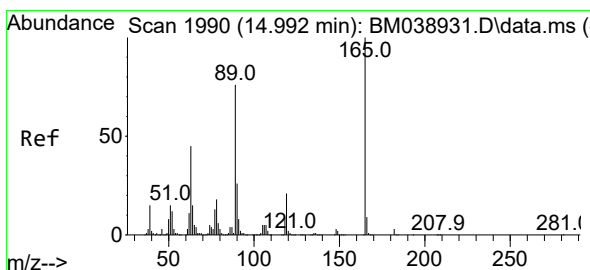
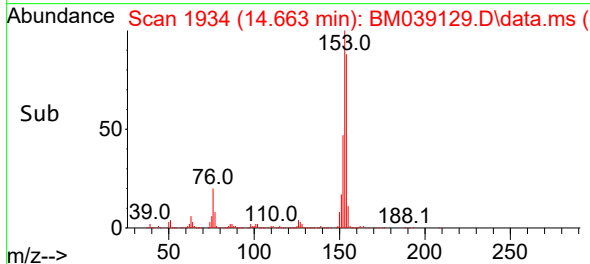
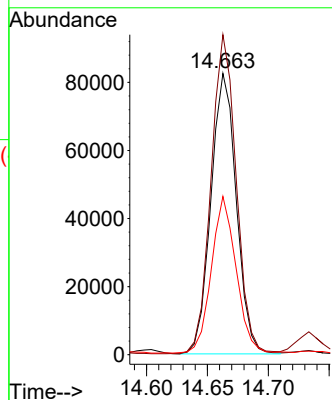
Tgt Ion:154 Resp: 119551

Ion Ratio Lower Upper

154 100

153 113.7 90.2 135.2

152 56.3 43.4 65.2



#57

2,4-Dinitrotoluene

Concen: 2.114 ng

RT: 14.957 min Scan# 1984

Delta R.T. -0.012 min

Lab File: BM039129.D

Acq: 23 Mar 2023 23:14

Tgt Ion:165 Resp: 560

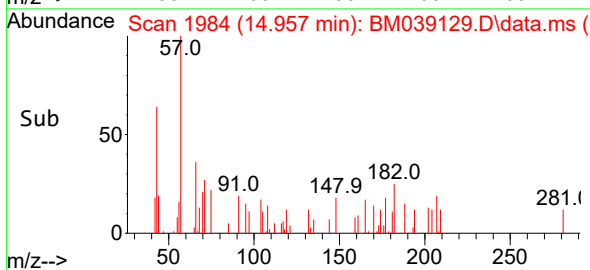
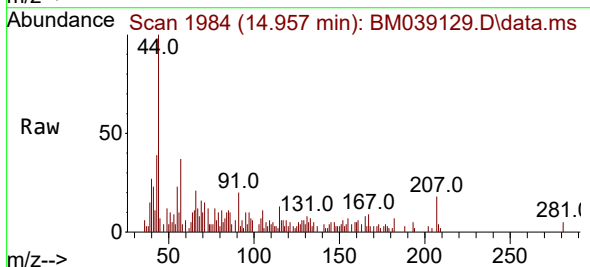
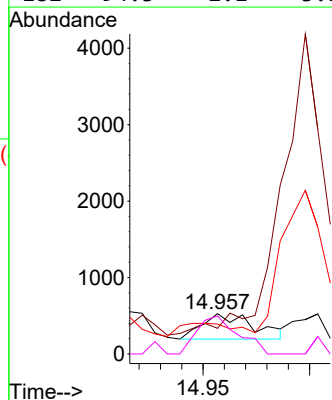
Ion Ratio Lower Upper

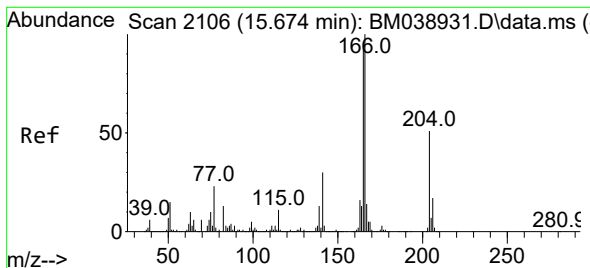
165 100

63 63.4 35.9 53.9#

89 74.2 61.0 91.6

182 94.3 2.1 3.1#





#58

Fluorene

Concen: 3.198 ng

RT: 15.645 min Scan# 2106

Delta R.T. -0.012 min

Lab File: BM039129.D

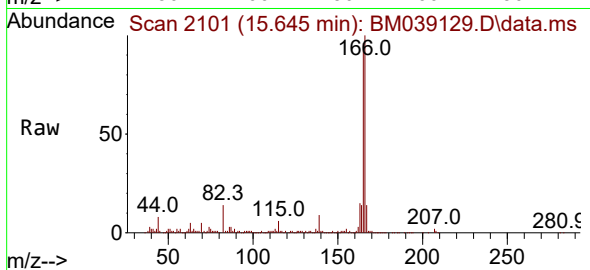
Acq: 23 Mar 2023 23:14

Instrument :

BNA_M

ClientSampleId :

BROAD-CHANNEL-SUBSTATION-TP1



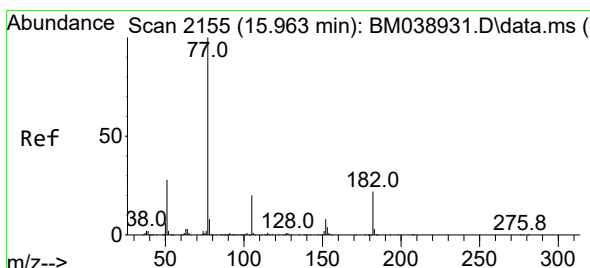
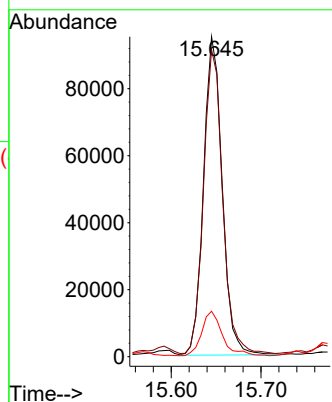
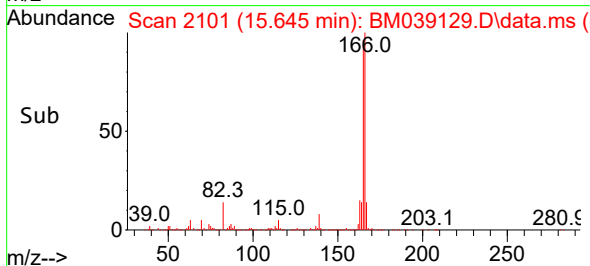
Tgt Ion:166 Resp: 138048

Ion Ratio Lower Upper

166 100

165 96.0 77.1 115.7

167 14.2 10.9 16.3



#63

Azobenzene

Concen: 5.519 ng

RT: 15.957 min Scan# 2154

Delta R.T. 0.018 min

Lab File: BM039129.D

Acq: 23 Mar 2023 23:14

Tgt Ion: 77 Resp: 246233

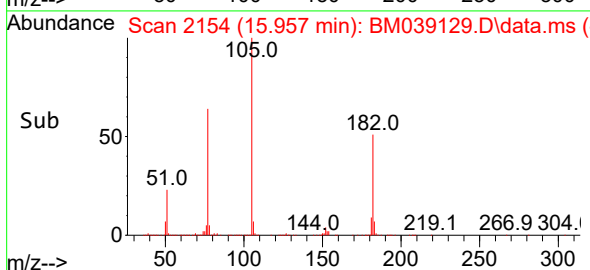
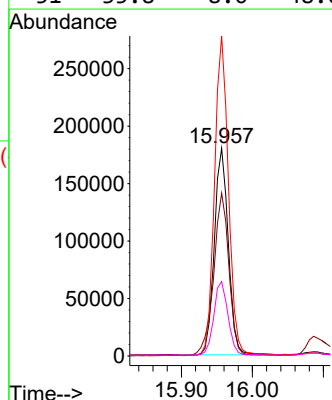
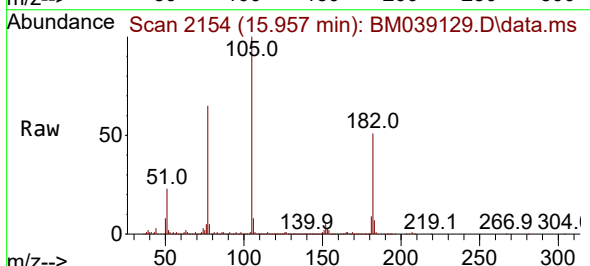
Ion Ratio Lower Upper

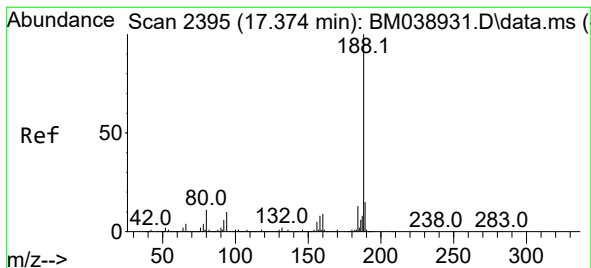
77 100

182 78.4 2.0 42.0#

105 154.1 0.4 40.4#

51 35.8 8.0 48.0





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 17.345 min Scan# 21

Delta R.T. -0.006 min

Lab File: BM039129.D

Acq: 23 Mar 2023 23:14

Instrument :

BNA_M

ClientSampleId :

BROAD-CHANNEL-SUBSTATION-TP1

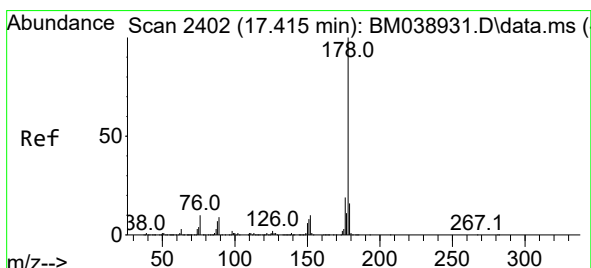
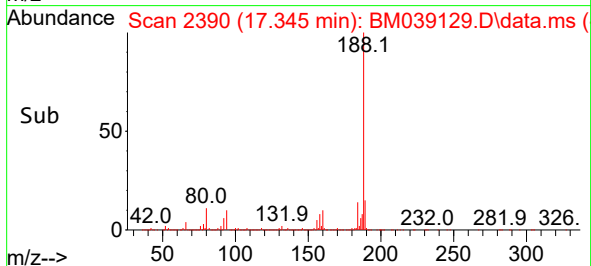
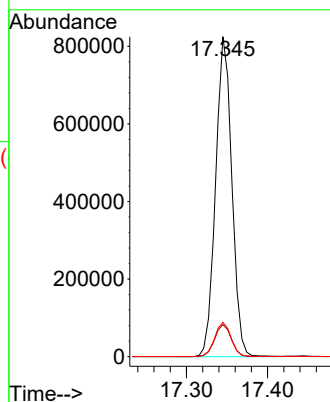
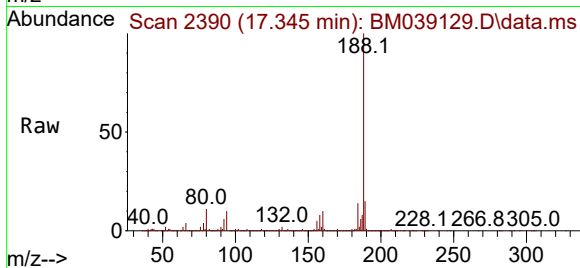
Tgt Ion:188 Resp: 1146198

Ion Ratio Lower Upper

188 100

94 10.1 7.9 11.9

80 10.8 8.5 12.7



#71

Phenanthrene

Concen: 28.237 ng

RT: 17.392 min Scan# 2398

Delta R.T. 0.000 min

Lab File: BM039129.D

Acq: 23 Mar 2023 23:14

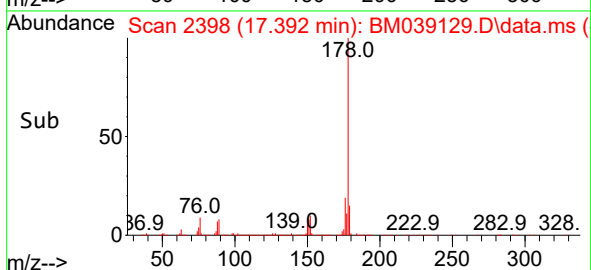
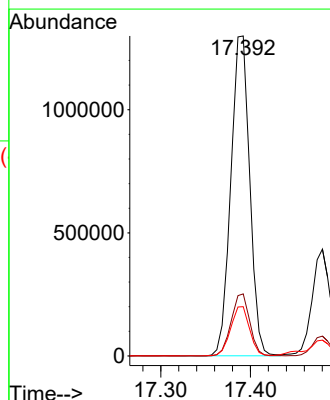
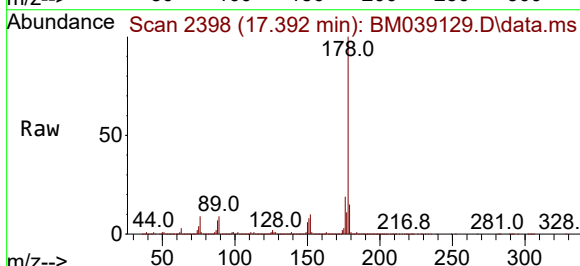
Tgt Ion:178 Resp: 1899530

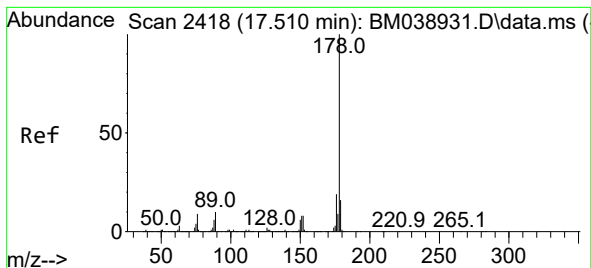
Ion Ratio Lower Upper

178 100

176 19.4 15.6 23.4

179 15.4 12.5 18.7





#72

Anthracene

Concen: 8.935 ng

RT: 17.480 min Scan# 2413

Delta R.T. -0.006 min

Lab File: BM039129.D

Acq: 23 Mar 2023 23:14

Instrument :

BNA_M

ClientSampleId :

BROAD-CHANNEL-SUBSTATION-TP1

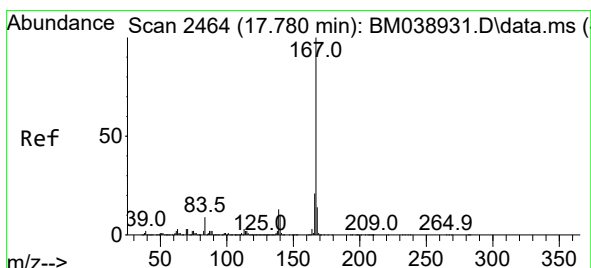
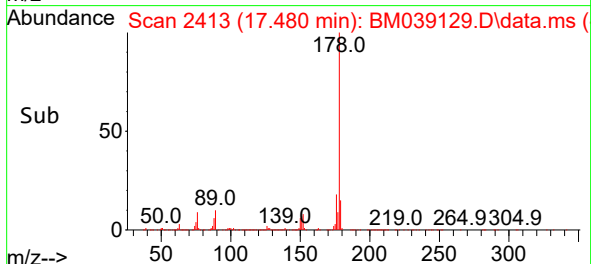
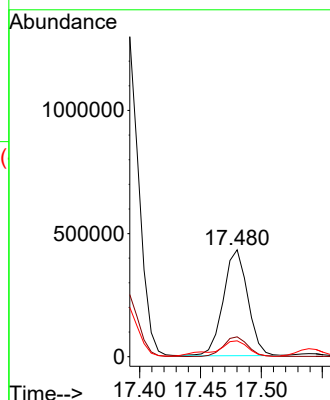
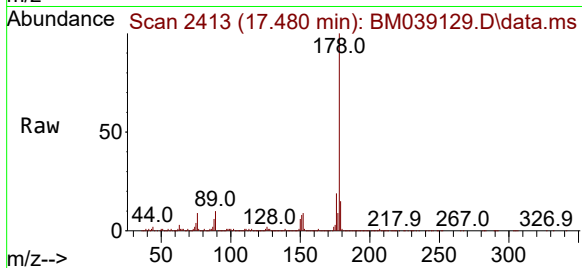
Tgt Ion:178 Resp: 599423

Ion Ratio Lower Upper

178 100

176 18.5 15.3 22.9

179 14.9 12.5 18.7



#73

Carbazole

Concen: 4.705 ng

RT: 17.751 min Scan# 2459

Delta R.T. -0.006 min

Lab File: BM039129.D

Acq: 23 Mar 2023 23:14

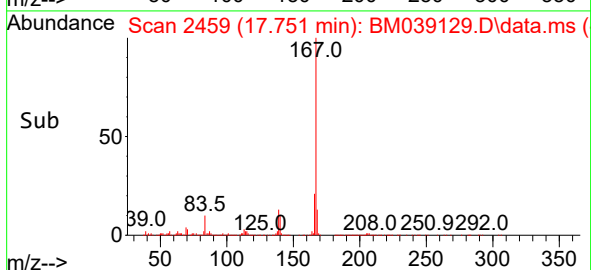
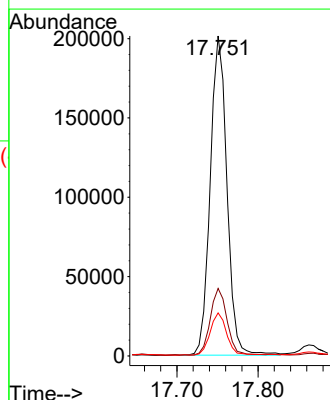
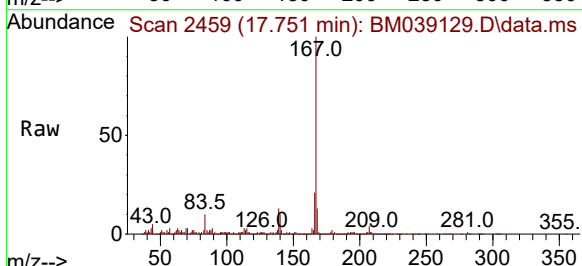
Tgt Ion:167 Resp: 288070

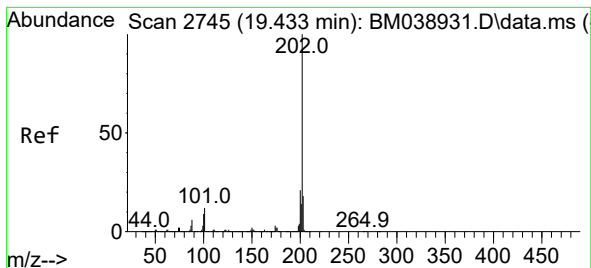
Ion Ratio Lower Upper

167 100

166 21.1 17.0 25.4

139 13.4 10.3 15.5





#75

Fluoranthene

Concen: 50.558 ng

RT: 19.404 min Scan# 21

Delta R.T. -0.006 min

Lab File: BM039129.D

Acq: 23 Mar 2023 23:14

Instrument :

BNA_M

ClientSampleId :

BROAD-CHANNEL-SUBSTATION-TP1

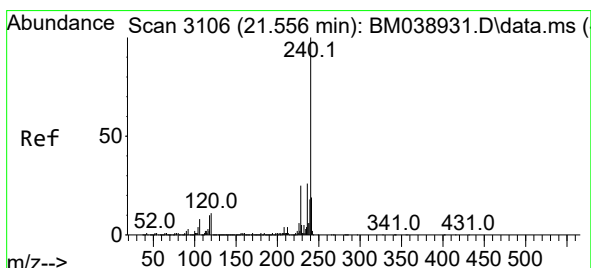
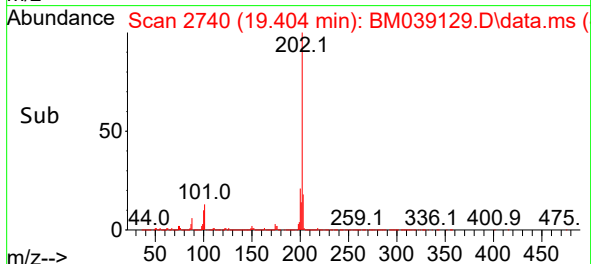
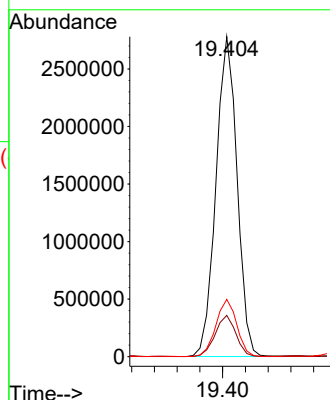
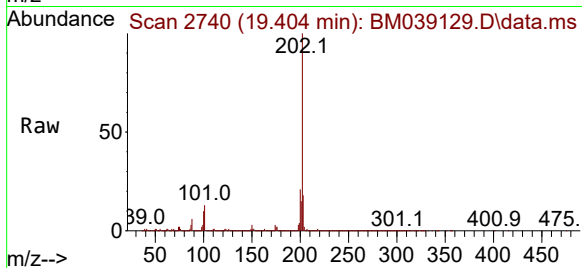
Tgt Ion:202 Resp: 3591055

Ion Ratio Lower Upper

202 100

101 12.9 0.0 31.7

203 17.9 0.0 37.6



#76

Chrysene-d12

Concen: 20.000 ng

RT: 21.527 min Scan# 3101

Delta R.T. -0.006 min

Lab File: BM039129.D

Acq: 23 Mar 2023 23:14

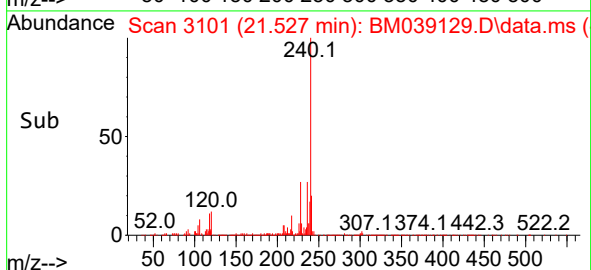
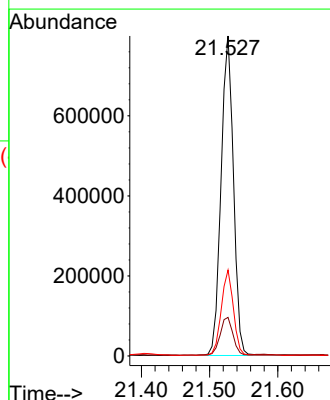
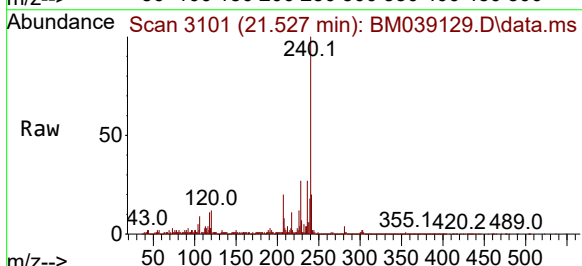
Tgt Ion:240 Resp: 1011477

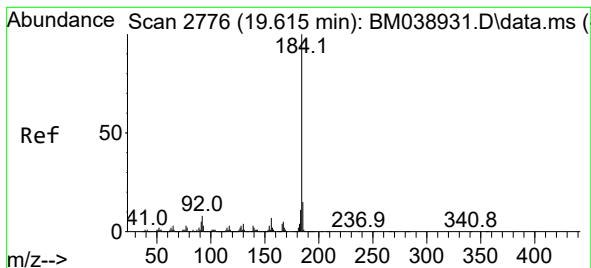
Ion Ratio Lower Upper

240 100

120 12.1 9.2 13.8

236 26.8 20.8 31.2





#77

Benzidine

Concen: 4.915 ng

RT: 19.586 min Scan# 21

Delta R.T. -0.006 min

Lab File: BM039129.D

Acq: 23 Mar 2023 23:14

Instrument :

BNA_M

ClientSampleId :

BROAD-CHANNEL-SUBSTATION-TP1

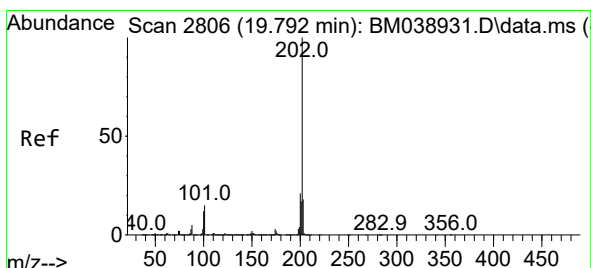
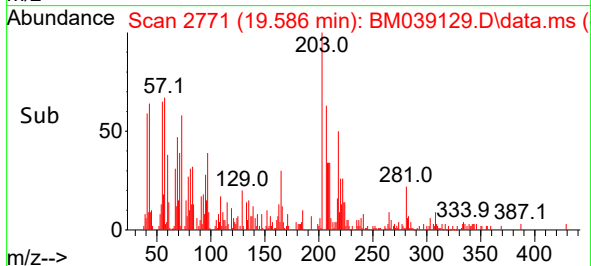
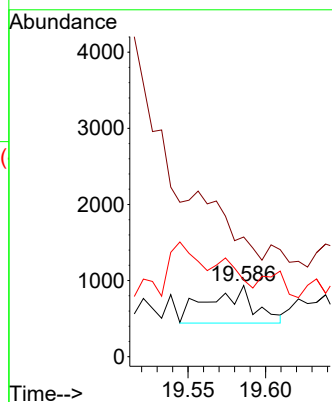
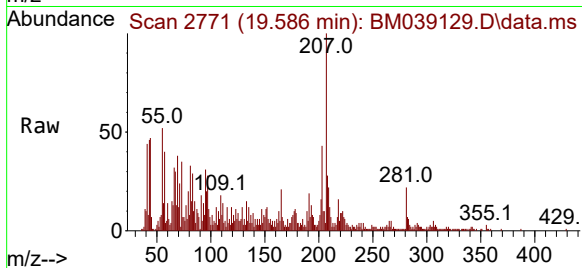
Tgt Ion:184 Resp: 999

Ion Ratio Lower Upper

184 100

185 168.1 12.2 18.4#

183 107.6 8.8 13.2#



#78

Pyrene

Concen: 42.818 ng

RT: 19.768 min Scan# 2802

Delta R.T. 0.000 min

Lab File: BM039129.D

Acq: 23 Mar 2023 23:14

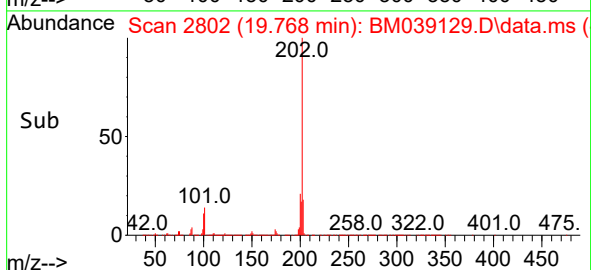
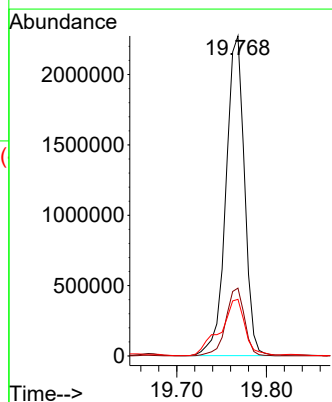
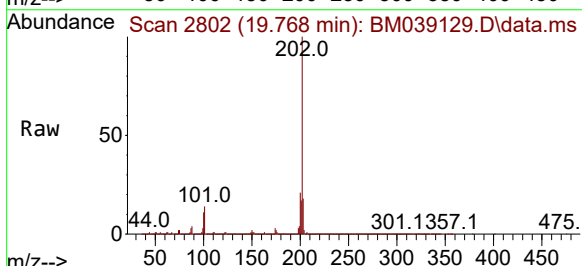
Tgt Ion:202 Resp: 3252925

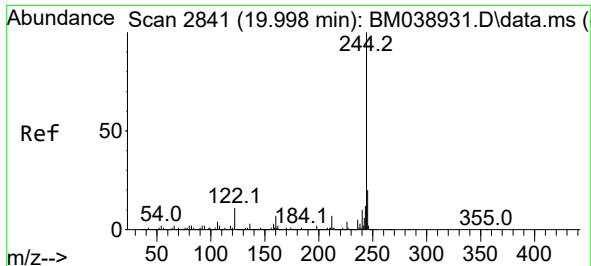
Ion Ratio Lower Upper

202 100

200 21.2 17.1 25.7

203 17.7 14.1 21.1

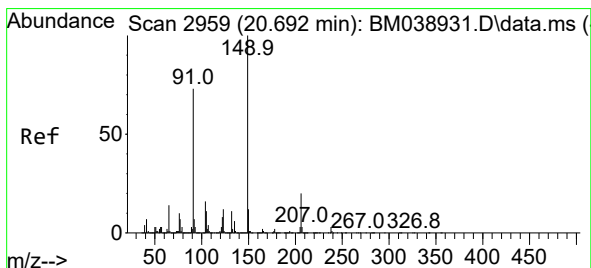
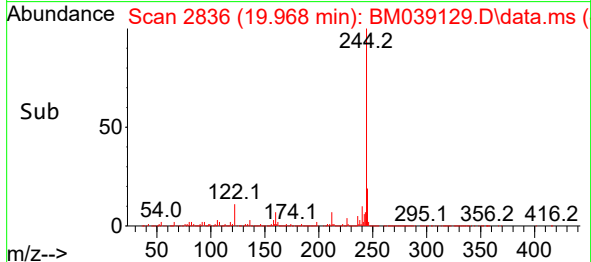
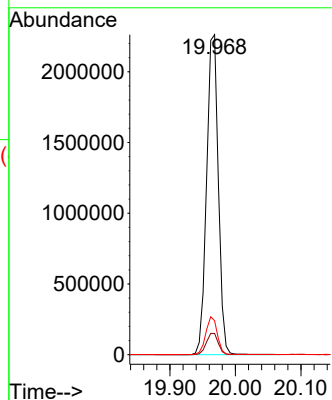
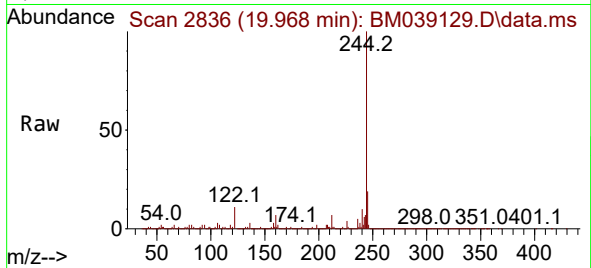




#79
 Terphenyl-d14
 Concen: 50.894 ng
 RT: 19.968 min Scan# 21
 Delta R.T. 0.000 min
 Lab File: BM039129.D
 Acq: 23 Mar 2023 23:14

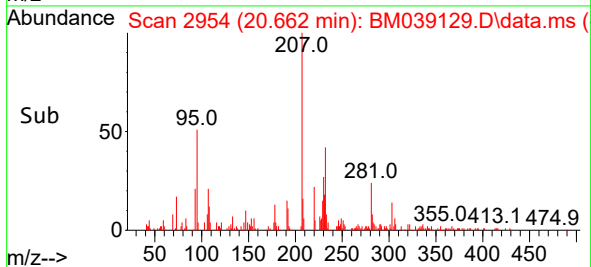
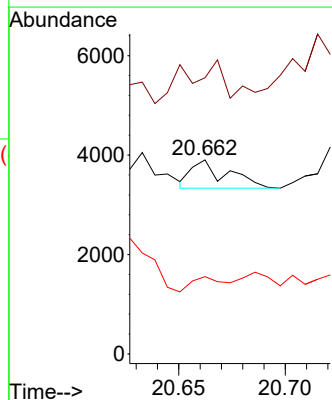
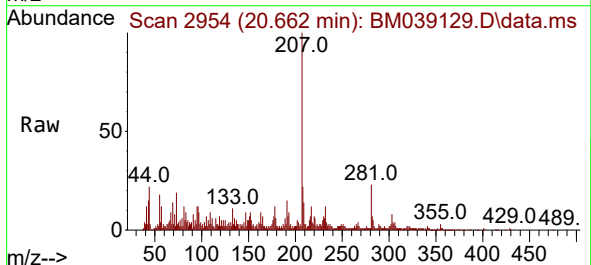
Instrument :
 BNA_M
 ClientSampleId :
 BROAD-CHANNEL-SUBSTATION-TP1

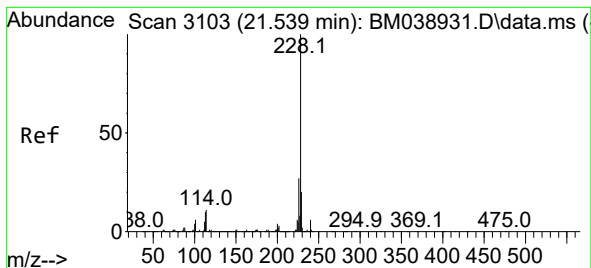
Tgt Ion:244 Resp: 2815585
 Ion Ratio Lower Upper
 244 100
 212 6.7 5.5 8.3
 122 10.6 9.0 13.4



#80
 Butylbenzylphthalate
 Concen: 3.335 ng
 RT: 20.662 min Scan# 2954
 Delta R.T. 0.000 min
 Lab File: BM039129.D
 Acq: 23 Mar 2023 23:14

Tgt Ion:149 Resp: 669
 Ion Ratio Lower Upper
 149 100
 91 142.3 58.4 87.6#
 206 39.8 16.1 24.1#





#81

Benzo(a)anthracene

Concen: 24.403 ng

RT: 21.509 min Scan# 3107

Delta R.T. -0.006 min

Lab File: BM039129.D

Acq: 23 Mar 2023 23:14

Instrument :

BNA_M

ClientSampleId :

BROAD-CHANNEL-SUBSTATION-TP1

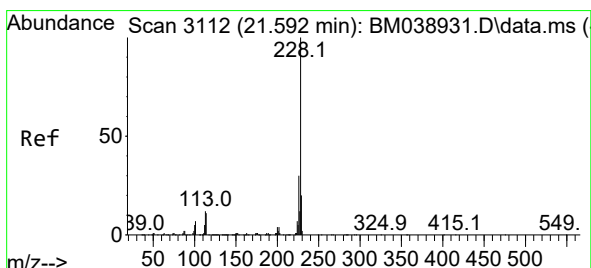
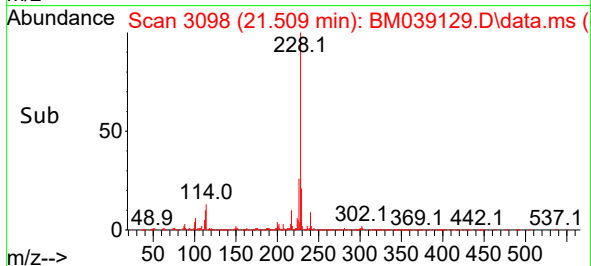
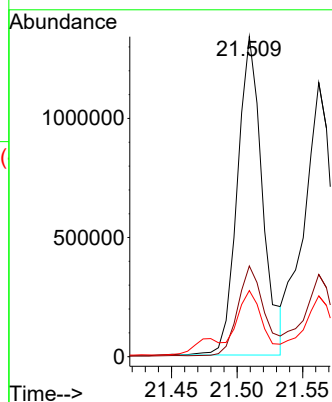
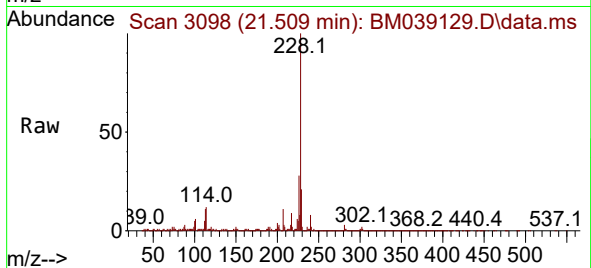
Tgt Ion:228 Resp: 1777522

Ion Ratio Lower Upper

228 100

226 28.3 21.4 32.2

229 20.7 15.7 23.5



#83

Chrysene

Concen: 23.735 ng

RT: 21.562 min Scan# 3107

Delta R.T. -0.006 min

Lab File: BM039129.D

Acq: 23 Mar 2023 23:14

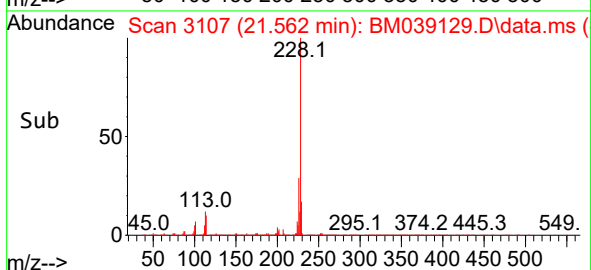
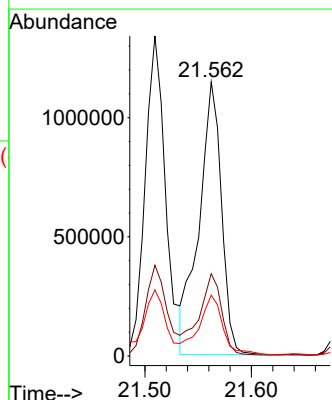
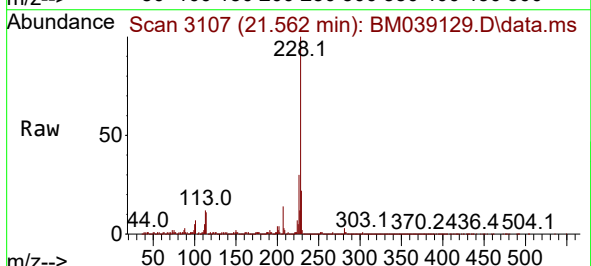
Tgt Ion:228 Resp: 1681470

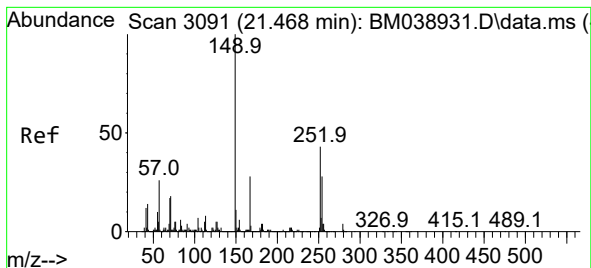
Ion Ratio Lower Upper

228 100

226 30.0 24.0 36.0

229 22.2 16.0 24.0

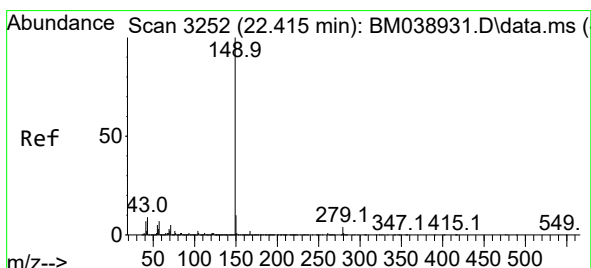
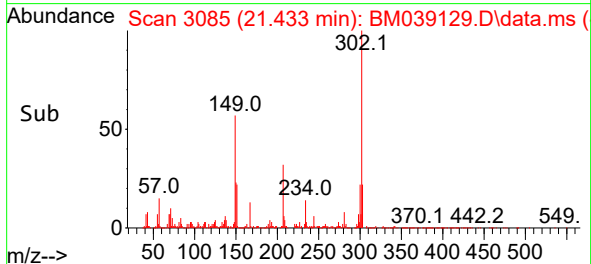
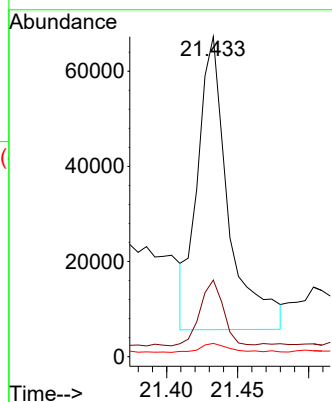
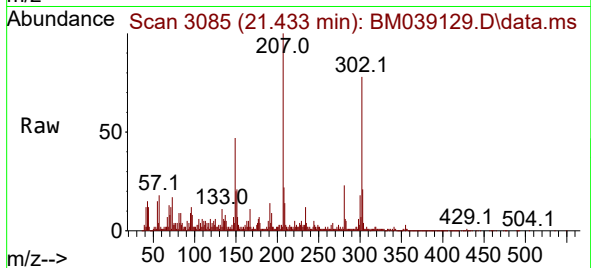




#84
Bis(2-ethylhexyl)phthalate
Concen: 4.382 ng
RT: 21.433 min Scan# 3091
Delta R.T. -0.006 min
Lab File: BM039129.D
Acq: 23 Mar 2023 23:14

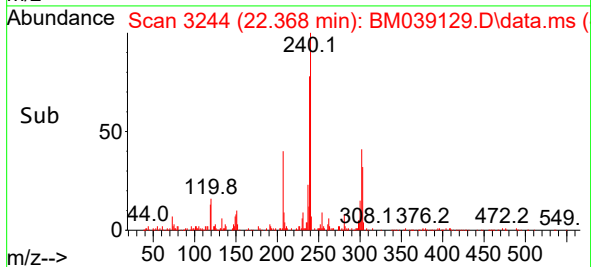
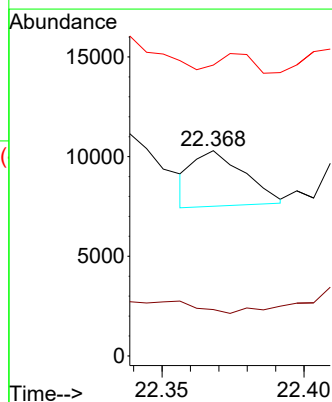
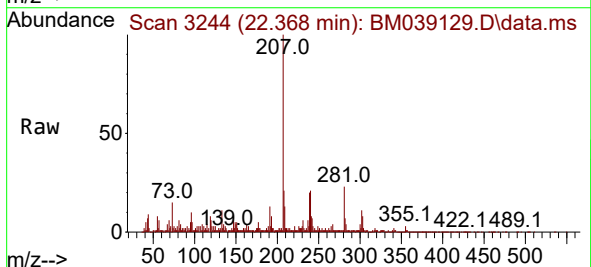
Instrument :
BNA_M
ClientSampleId :
BROAD-CHANNEL-SUBSTATION-TP1

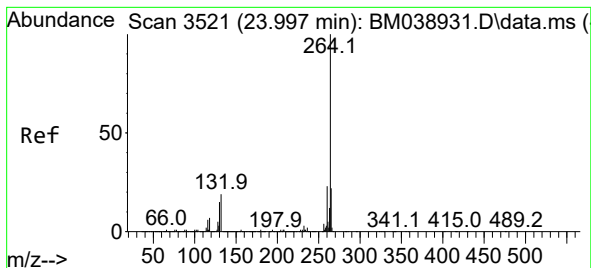
Tgt Ion:149 Resp: 93460
Ion Ratio Lower Upper
149 100
167 24.0 22.3 33.5
279 4.1 3.2 4.8



#85
Di-n-octyl phthalate
Concen: 3.838 ng
RT: 22.368 min Scan# 3244
Delta R.T. -0.006 min
Lab File: BM039129.D
Acq: 23 Mar 2023 23:14

Tgt Ion:149 Resp: 3491
Ion Ratio Lower Upper
149 100
167 27.7 1.2 1.8#
43 0.0 7.4 11.2#





#86

Perylene-d12

Concen: 20.000 ng

RT: 23.956 min Scan# 3

Delta R.T. -0.006 min

Lab File: BM039129.D

Acq: 23 Mar 2023 23:14

Instrument :

BNA_M

ClientSampleId :

BROAD-CHANNEL-SUBSTATION-TP1

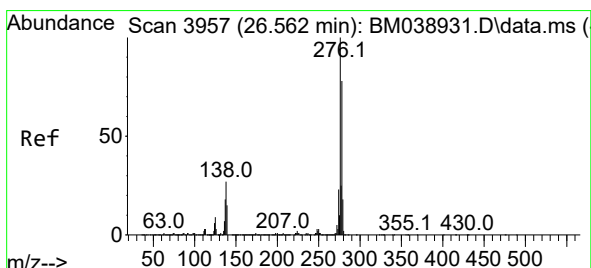
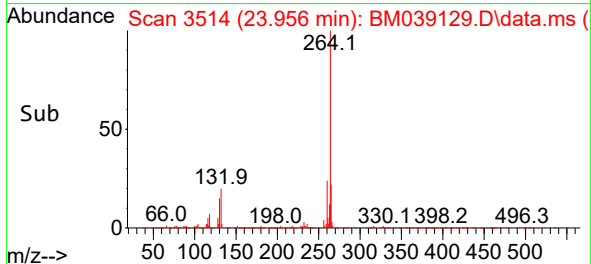
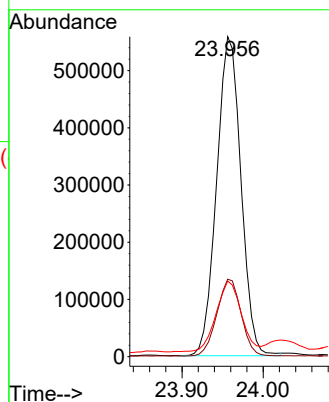
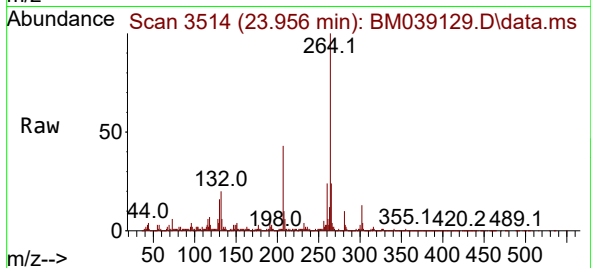
Tgt Ion:264 Resp: 1162018

Ion Ratio Lower Upper

264 100

260 24.2 18.7 28.1

265 23.6 17.9 26.9



#87

Indeno(1,2,3-cd)pyrene

Concen: 14.509 ng

RT: 26.485 min Scan# 3944

Delta R.T. -0.012 min

Lab File: BM039129.D

Acq: 23 Mar 2023 23:14

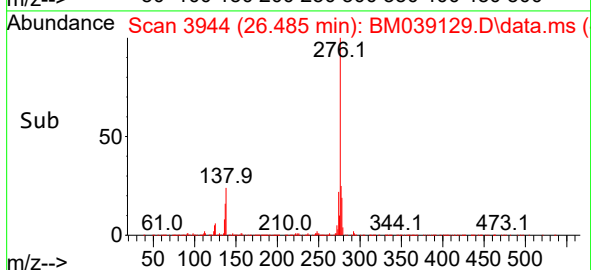
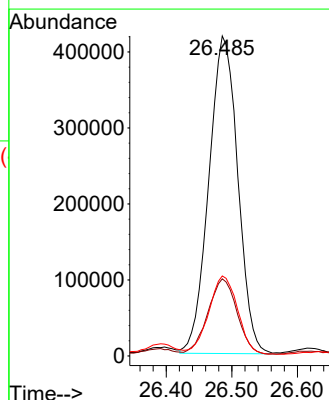
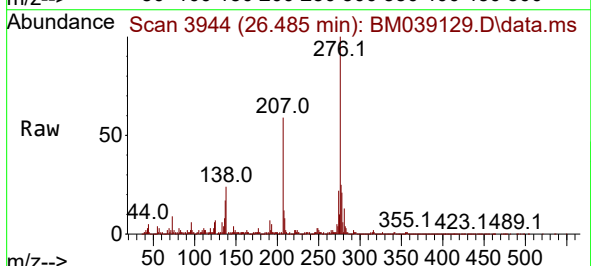
Tgt Ion:276 Resp: 1282874

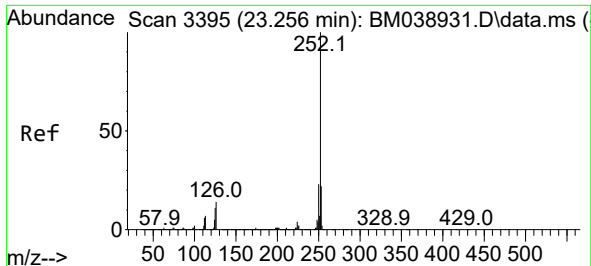
Ion Ratio Lower Upper

276 100

138 23.7 22.1 33.1

277 24.6 20.1 30.1

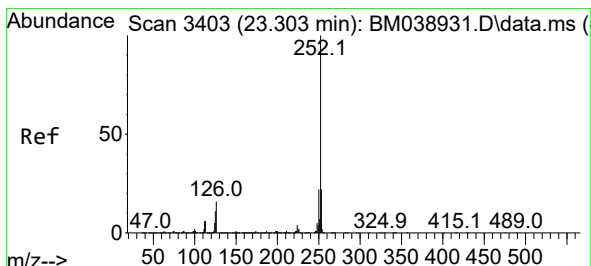
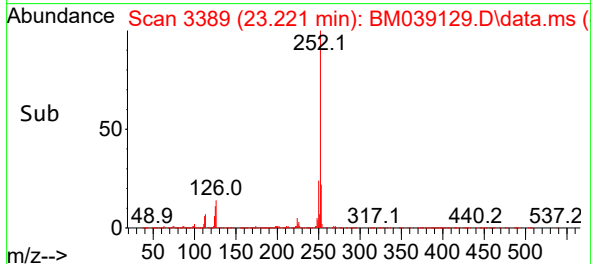
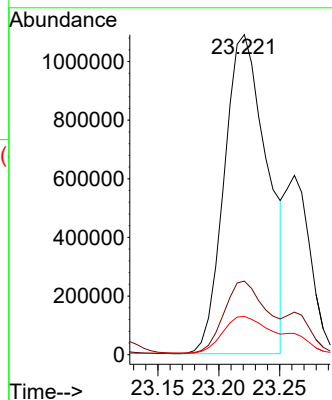
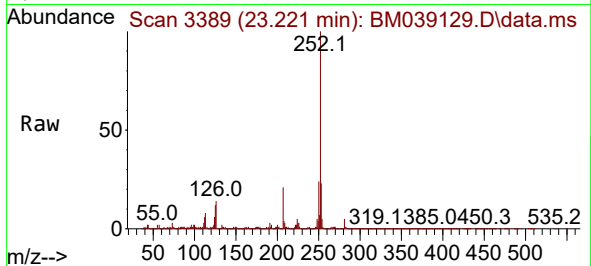




#88
Benzo(b)fluoranthene
Concen: 35.996 ng
RT: 23.221 min Scan# 3389
Delta R.T. 0.000 min
Lab File: BM039129.D
Acq: 23 Mar 2023 23:14

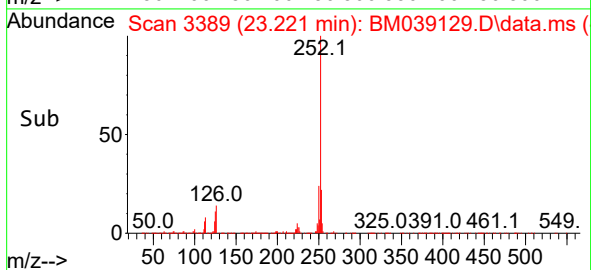
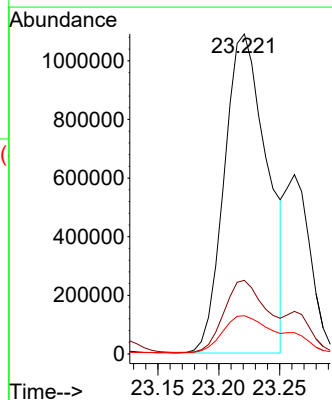
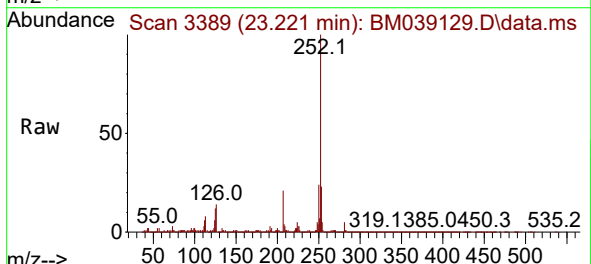
Instrument :
BNA_M
ClientSampleId :
BROAD-CHANNEL-SUBSTATION-TP1

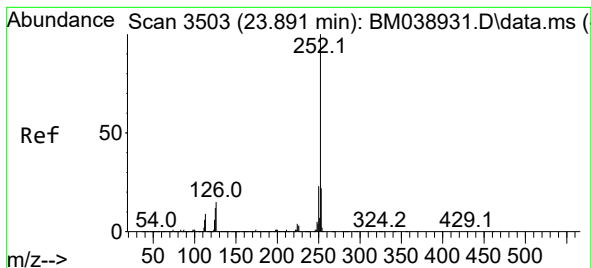
Tgt Ion:252 Resp: 2672252
Ion Ratio Lower Upper
252 100
253 23.0 17.6 26.4
125 12.0 8.8 13.2



#89
Benzo(k)fluoranthene
Concen: 34.588 ng
RT: 23.221 min Scan# 3389
Delta R.T. -0.047 min
Lab File: BM039129.D
Acq: 23 Mar 2023 23:14

Tgt Ion:252 Resp: 2672252
Ion Ratio Lower Upper
252 100
253 23.0 17.5 26.3
125 12.0 8.9 13.3





#90

Benzo(a)pyrene

Concen: 24.178 ng

RT: 23.850 min Scan# 34

Delta R.T. -0.006 min

Lab File: BM039129.D

Acq: 23 Mar 2023 23:14

Instrument :

BNA_M

ClientSampleId :

BROAD-CHANNEL-SUBSTATION-TP1

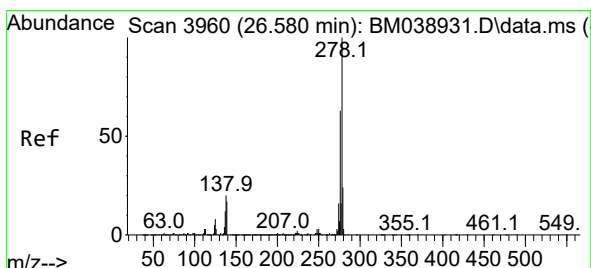
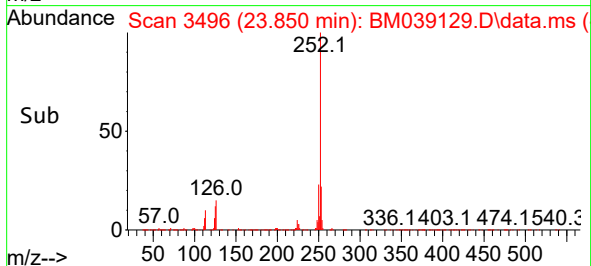
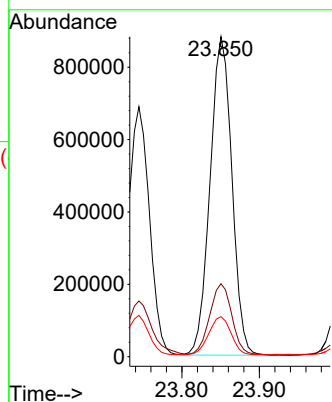
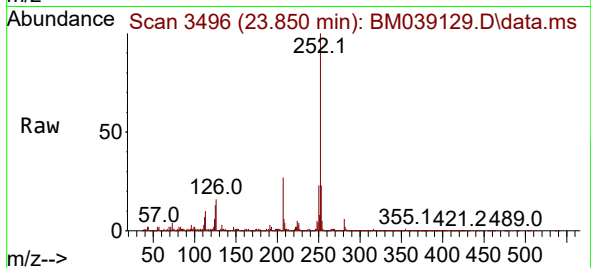
Tgt Ion:252 Resp: 1727441

Ion Ratio Lower Upper

252 100

253 22.8 17.6 26.4

125 12.5 9.8 14.8



#91

Dibenzo(a,h)anthracene

Concen: 4.505 ng

RT: 26.497 min Scan# 3946

Delta R.T. -0.012 min

Lab File: BM039129.D

Acq: 23 Mar 2023 23:14

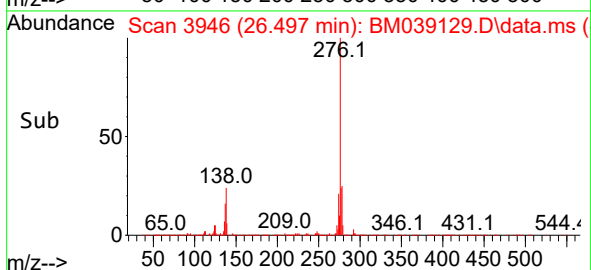
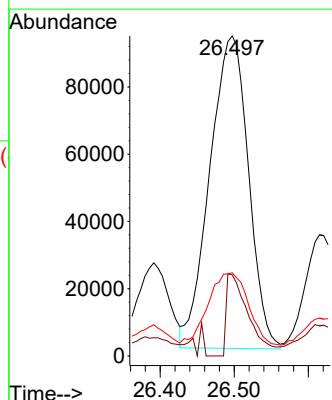
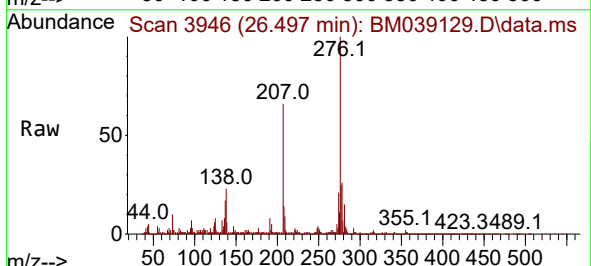
Tgt Ion:278 Resp: 337314

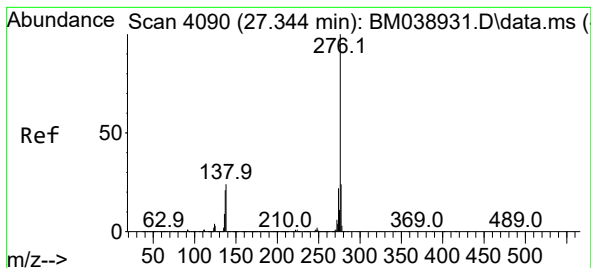
Ion Ratio Lower Upper

278 100

139 25.4 13.7 20.5#

279 26.0 18.9 28.3





#92

Benzo(g,h,i)perylene

Concen: 17.152 ng

RT: 27.268 min Scan# 40

Delta R.T. -0.006 min

Lab File: BM039129.D

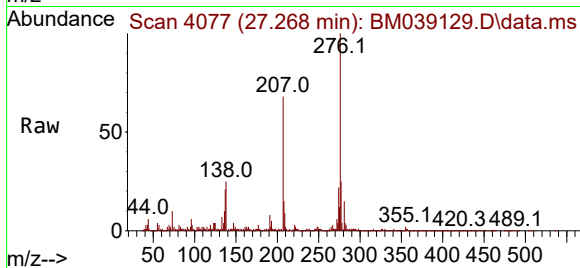
Acq: 23 Mar 2023 23:14

Instrument :

BNA_M

ClientSampleId :

BROAD-CHANNEL-SUBSTATION-TP1



Tgt Ion:276 Resp: 1256577

Ion Ratio Lower Upper

276 100

277 24.5 19.3 28.9

138 24.8 19.0 28.6

