

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM040325\
 Data File : BM049809.D
 Acq On : 03 Apr 2025 17:14
 Operator : RC/JU
 Sample : Q1698-07
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 B-10

Quant Time: Apr 03 18:05:45 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM031325.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Mar 13 14:55:34 2025
 Response via : Initial Calibration

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

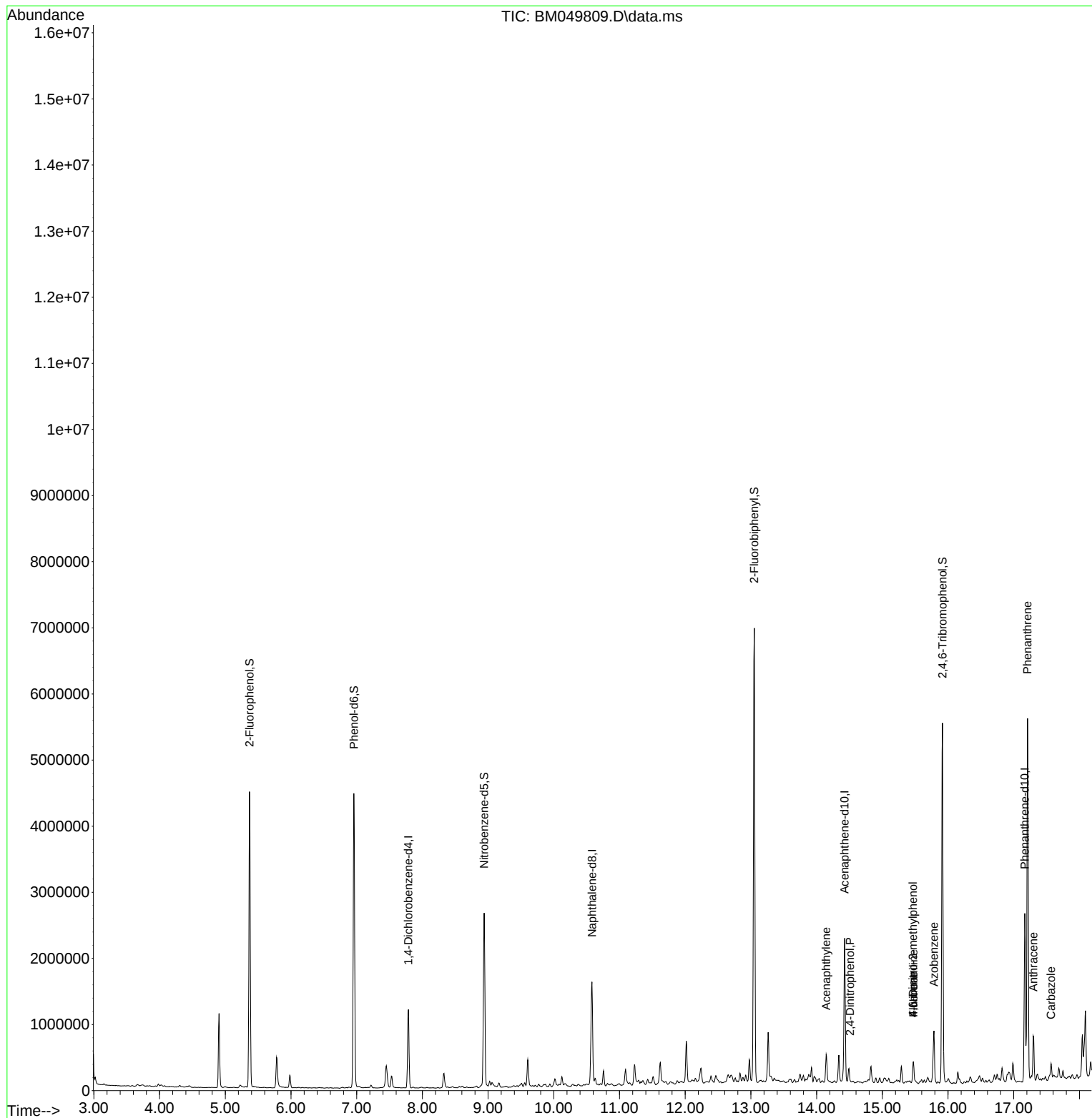
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.786	152	325331	20.000	ng	-0.02
21) Naphthalene-d8	10.580	136	1134201	20.000	ng	-0.02
39) Acenaphthene-d10	14.427	164	729737	20.000	ng	-0.02
64) Phenanthrene-d10	17.168	188	1449581	20.000	ng	-0.02
76) Chrysene-d12	21.403	240	1521361	20.000	ng	-0.02
86) Perylene-d12	24.403	264	1553148	20.000	ng	-0.04
System Monitoring Compounds						
5) 2-Fluorophenol	5.369	112	1830101	94.918	ng	-0.02
7) Phenol-d6	6.957	99	2406176	99.443	ng	-0.02
23) Nitrobenzene-d5	8.939	82	1458793	66.035	ng	-0.02
42) 2,4,6-Tribromophenol	15.915	330	931398	109.304	ng	-0.02
45) 2-Fluorobiphenyl	13.051	172	3539574	60.746	ng	-0.02
79) Terphenyl-d14	19.792	244	5747969	63.667	ng	-0.02
Target Compounds						Qvalue
49) Acenaphthylene	14.145	152	303149	4.954	ng	99
54) 2,4-Dinitrophenol	14.509	184	55	3.199	ng	# 1
58) Fluorene	15.474	166	131580	2.416	ng	98
62) 4-Nitroaniline	15.474	138	2239	3.938	ng	# 48
63) Azobenzene	15.786	77	198555	4.393	ng	# 1
65) 4,6-Dinitro-2-methylph...	15.468	198	67	3.024	ng	# 1
71) Phenanthrene	17.209	178	3207601	39.850	ng	100
72) Anthracene	17.298	178	433091	5.556	ng	99
73) Carbazole	17.568	167	144787	2.051	ng	98
75) Fluoranthene	19.227	202	4796426	51.758	ng	99
78) Pyrene	19.586	202	4358681	41.007	ng	99
81) Benzo(a)anthracene	21.386	228	1810981	17.822	ng	97
83) Chrysene	21.444	228	1694712	17.593	ng	97
87) Indeno(1,2,3-cd)pyrene	27.779	276	958233	8.572	ng	98
88) Benzo(b)fluoranthene	23.462	252	2095453	20.031	ng	99
89) Benzo(k)fluoranthene	23.462	252	2095453	20.357	ng	99
90) Benzo(a)pyrene	24.262	252	1464351	16.665	ng	97
91) Dibenzo(a,h)anthracene	27.826	278	244475	2.625	ng	# 94
92) Benzo(g,h,i)perylene	28.832	276	932851	9.943	ng	99

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

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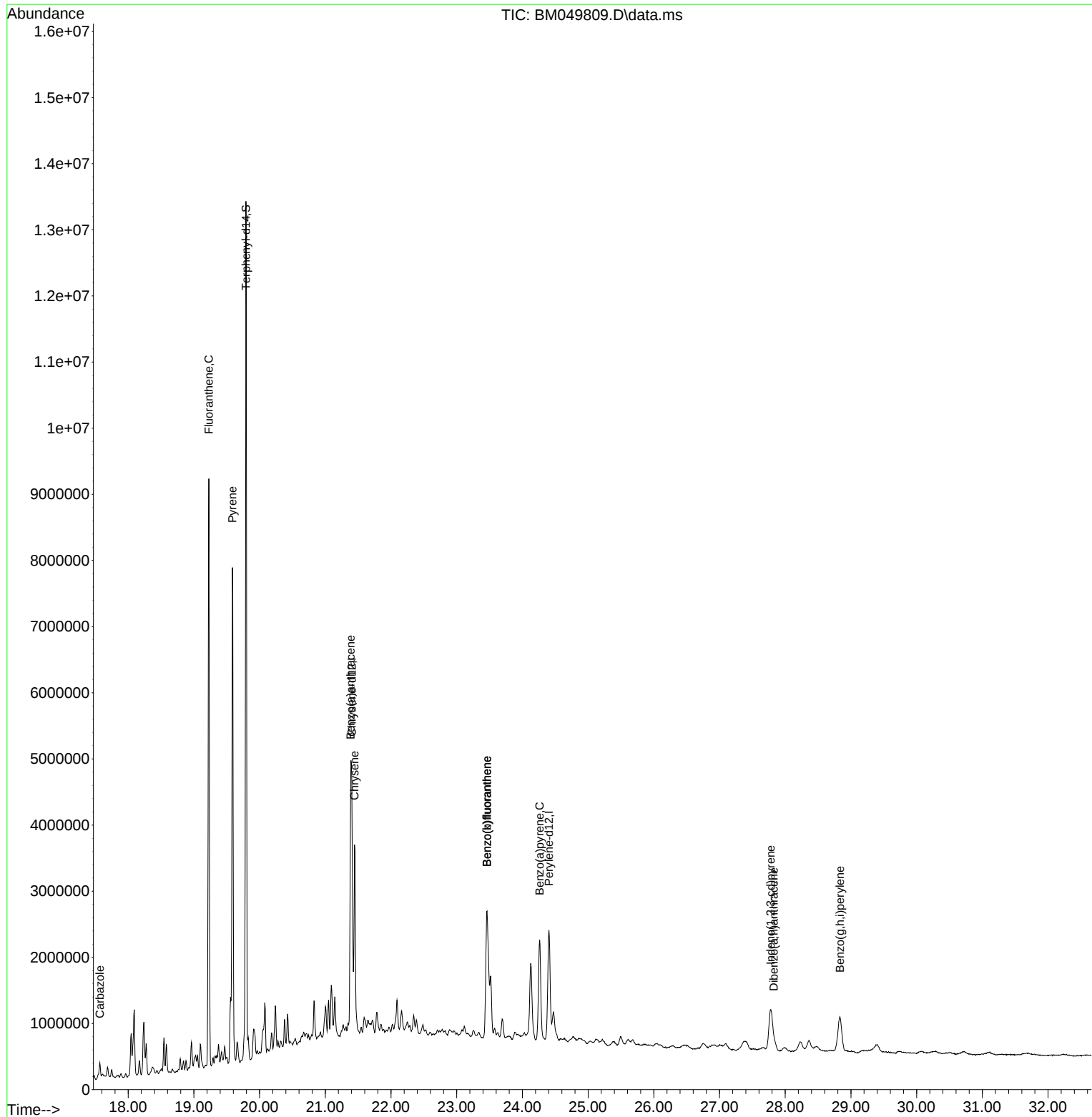
Quant Time: Apr 03 18:05:45 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM031325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
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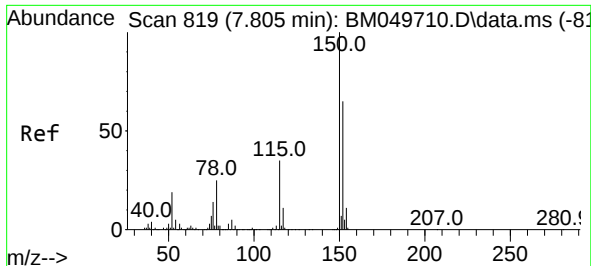


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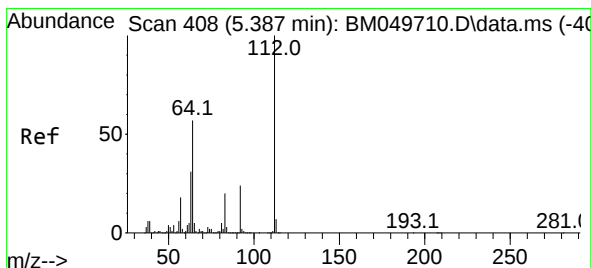
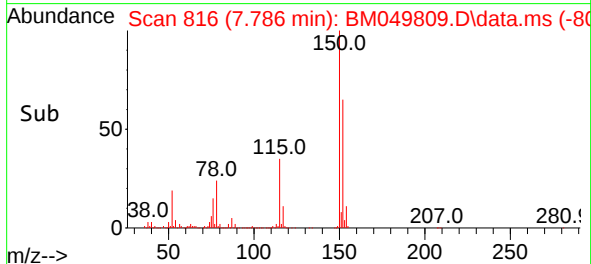
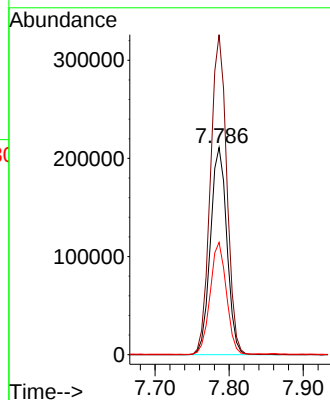
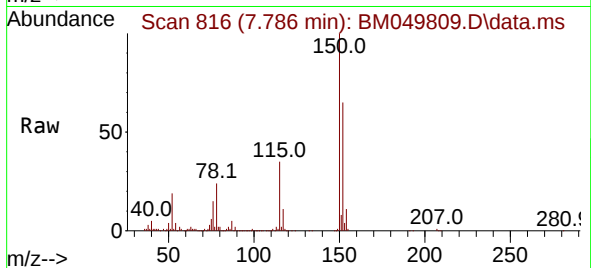




#1
 1,4-Dichlorobenzene-d4
 Concen: 20.000 ng
 RT: 7.786 min Scan# 819
 Delta R.T. -0.019 min
 Lab File: BM049809.D
 Acq: 03 Apr 2025 17:14

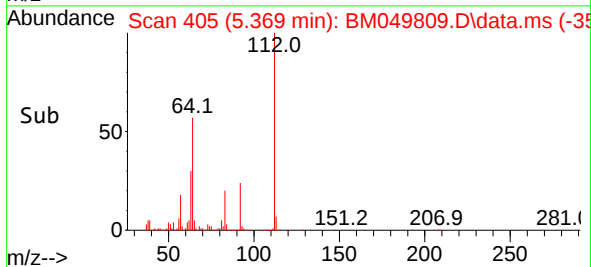
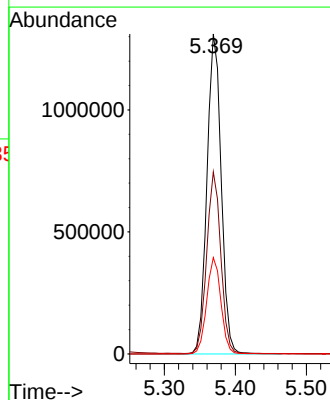
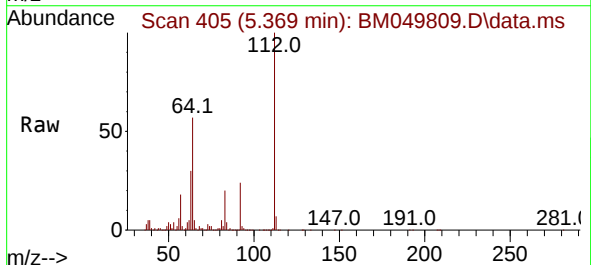
Instrument :
 BNA_M
 ClientSampleId :
 B-10

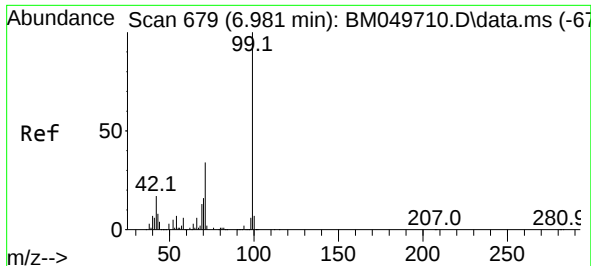
Tgt Ion:152 Resp: 325331
 Ion Ratio Lower Upper
 152 100
 150 154.4 123.8 185.8
 115 54.2 43.0 64.6



#5
 2-Fluorophenol
 Concen: 94.918 ng
 RT: 5.369 min Scan# 405
 Delta R.T. -0.018 min
 Lab File: BM049809.D
 Acq: 03 Apr 2025 17:14

Tgt Ion:112 Resp: 1830101
 Ion Ratio Lower Upper
 112 100
 64 56.9 45.3 67.9
 63 30.1 24.4 36.6

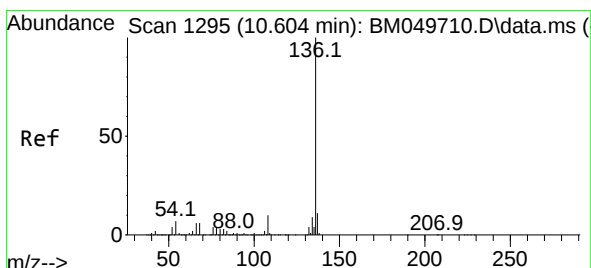
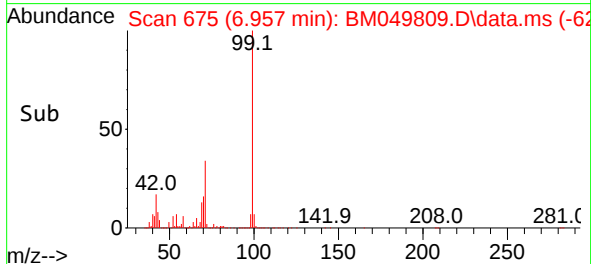
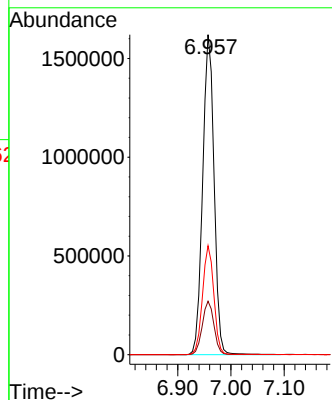
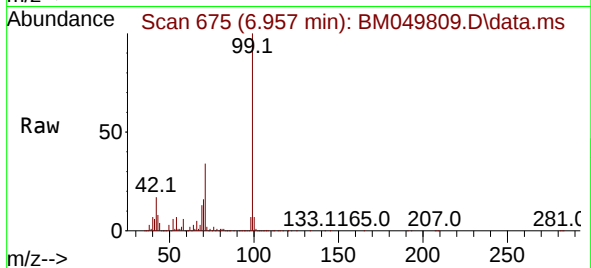




#7
Phenol-d6
Concen: 99.443 ng
RT: 6.957 min Scan# 61
Delta R.T. -0.024 min
Lab File: BM049809.D
Acq: 03 Apr 2025 17:14

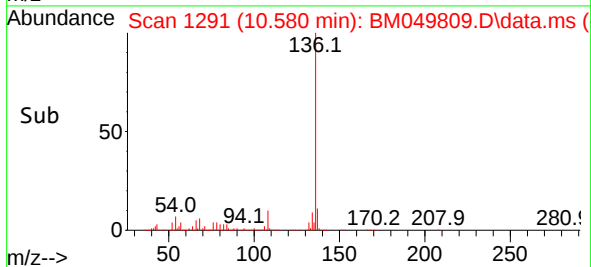
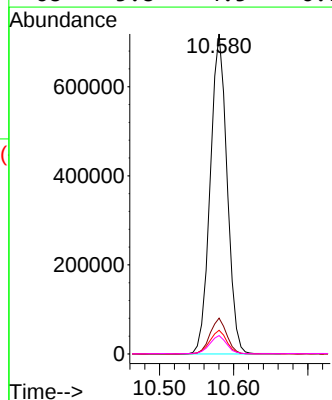
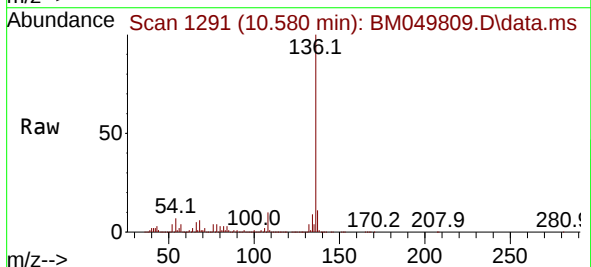
Instrument :
BNA_M
ClientSampleId :
B-10

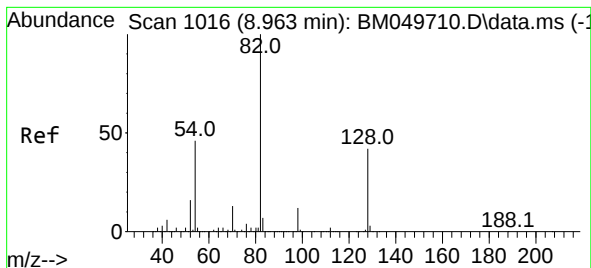
Tgt Ion: 99 Resp: 2406176
Ion Ratio Lower Upper
99 100
42 16.7 13.6 20.4
71 34.1 27.0 40.6



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.580 min Scan# 1291
Delta R.T. -0.024 min
Lab File: BM049809.D
Acq: 03 Apr 2025 17:14

Tgt Ion: 136 Resp: 1134201
Ion Ratio Lower Upper
136 100
137 11.2 8.6 12.8
54 7.4 5.8 8.8
68 5.8 4.5 6.7





#23

Nitrobenzene-d5

Concen: 66.035 ng

RT: 8.939 min Scan# 1012

Delta R.T. -0.024 min

Lab File: BM049809.D

Acq: 03 Apr 2025 17:14

Instrument :

BNA_M

ClientSampleId :

B-10

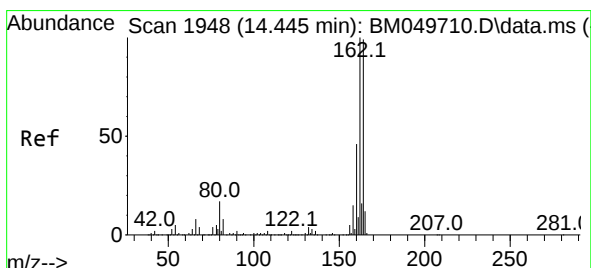
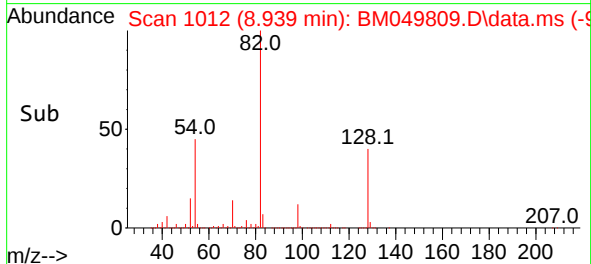
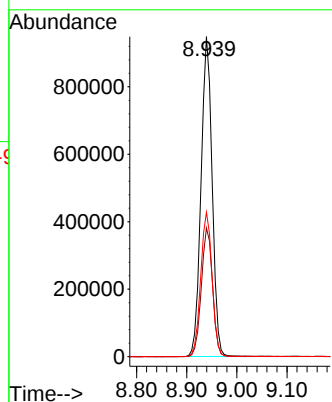
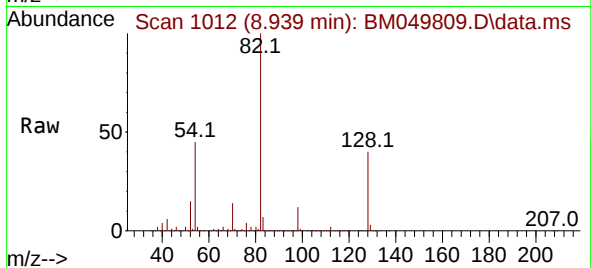
Tgt Ion: 82 Resp: 1458793

Ion Ratio Lower Upper

82 100

128 40.2 33.4 50.0

54 45.2 36.4 54.6



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 14.427 min Scan# 1945

Delta R.T. -0.018 min

Lab File: BM049809.D

Acq: 03 Apr 2025 17:14

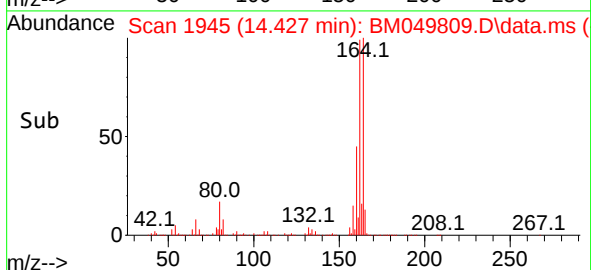
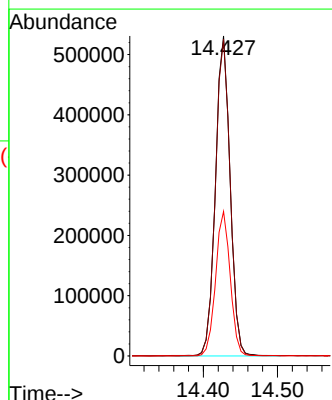
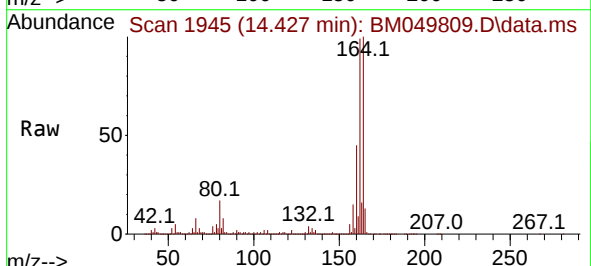
Tgt Ion:164 Resp: 729737

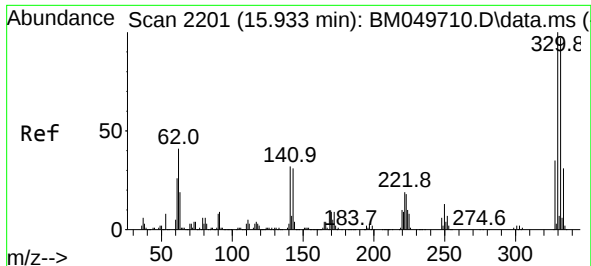
Ion Ratio Lower Upper

164 100

162 98.9 80.5 120.7

160 45.2 36.9 55.3

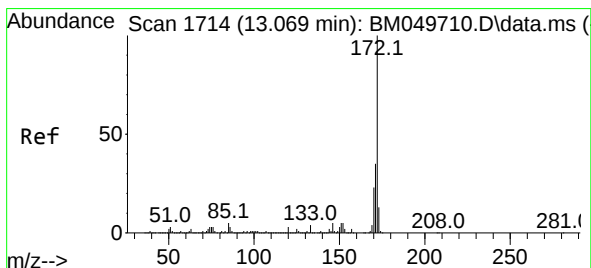
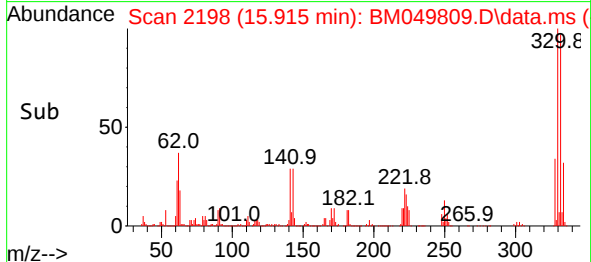
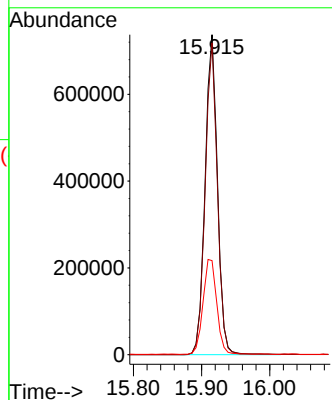
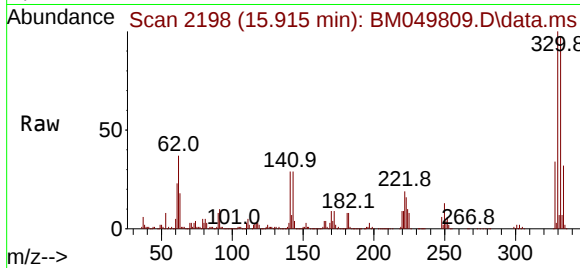




#42
2,4,6-Tribromophenol
Concen: 109.304 ng
RT: 15.915 min Scan# 21
Delta R.T. -0.018 min
Lab File: BM049809.D
Acq: 03 Apr 2025 17:14

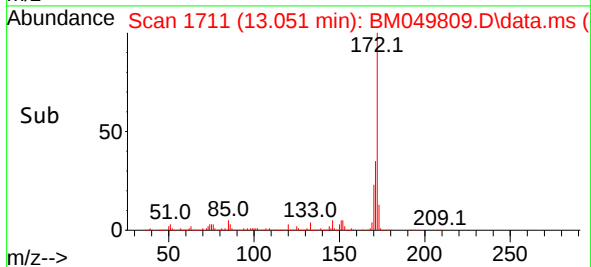
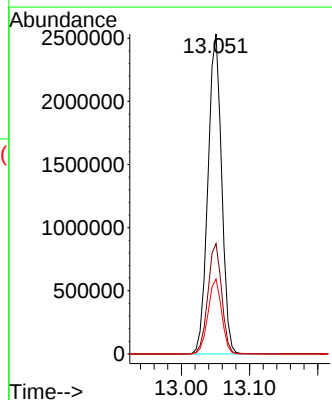
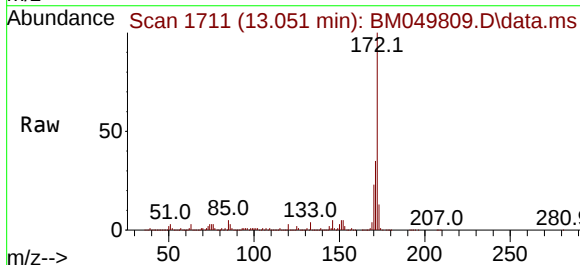
Instrument :
BNA_M
ClientSampleId :
B-10

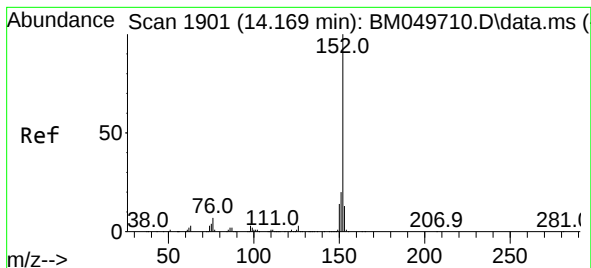
Tgt Ion:330 Resp: 931398
Ion Ratio Lower Upper
330 100
332 96.4 77.0 115.4
141 32.9 27.8 41.6



#45
2-Fluorobiphenyl
Concen: 60.746 ng
RT: 13.051 min Scan# 1711
Delta R.T. -0.018 min
Lab File: BM049809.D
Acq: 03 Apr 2025 17:14

Tgt Ion:172 Resp: 3539574
Ion Ratio Lower Upper
172 100
171 34.5 27.9 41.9
170 23.4 18.6 28.0





#49

Acenaphthylene

Concen: 4.954 ng

RT: 14.145 min Scan# 1

Delta R.T. -0.024 min

Lab File: BM049809.D

Acq: 03 Apr 2025 17:14

Instrument :

BNA_M

ClientSampleId :

B-10

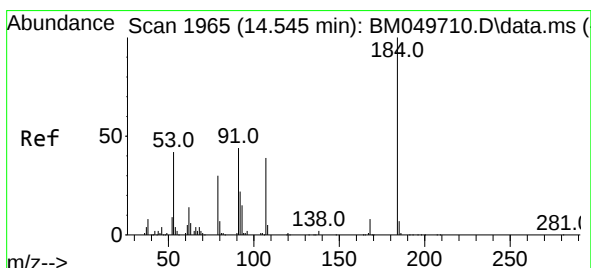
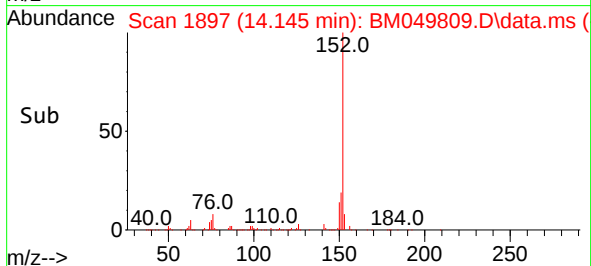
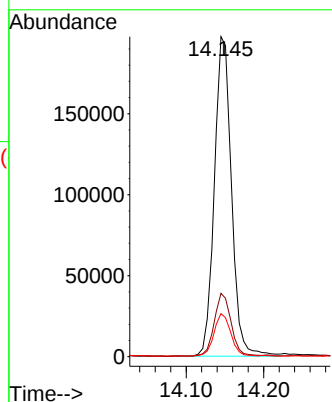
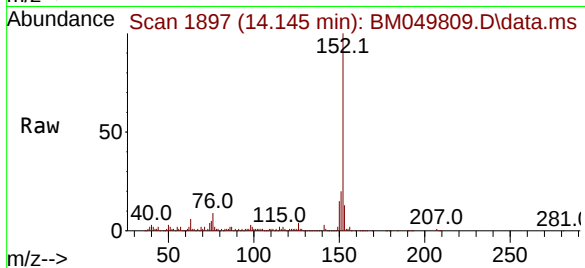
Tgt Ion:152 Resp: 303149

Ion Ratio Lower Upper

152 100

151 19.8 15.8 23.8

153 13.4 10.2 15.4



#54

2,4-Dinitrophenol

Concen: 3.199 ng

RT: 14.509 min Scan# 1959

Delta R.T. -0.036 min

Lab File: BM049809.D

Acq: 03 Apr 2025 17:14

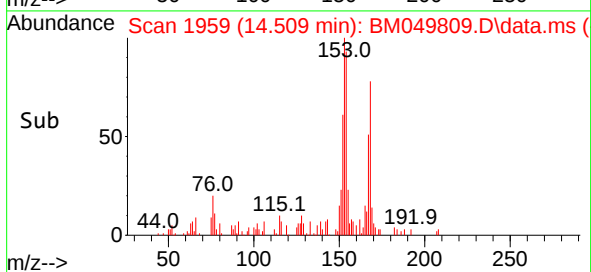
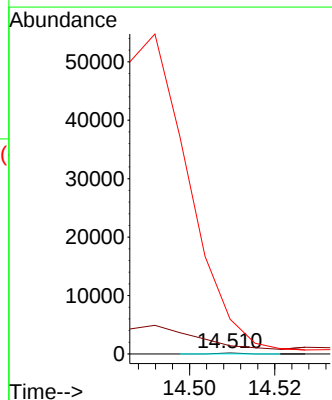
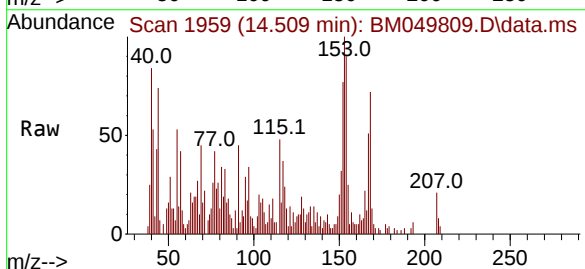
Tgt Ion:184 Resp: 55

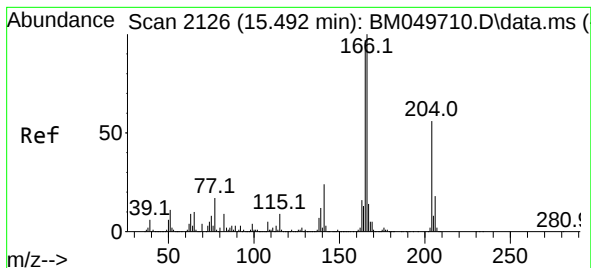
Ion Ratio Lower Upper

184 100

63 905.2 47.2 70.8#

154 3826.5 49.9 74.9#





#58

Fluorene

Concen: 2.416 ng

RT: 15.474 min Scan# 2123

Delta R.T. -0.018 min

Lab File: BM049809.D

Acq: 03 Apr 2025 17:14

Instrument :

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ClientSampleId :

B-10

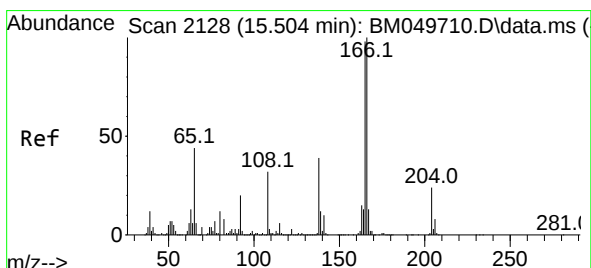
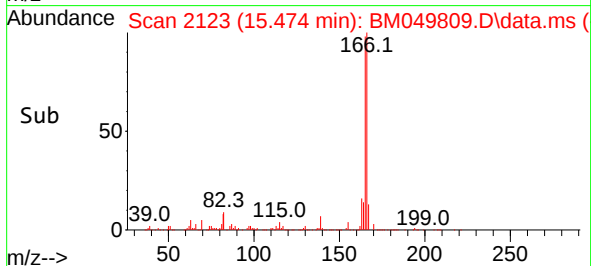
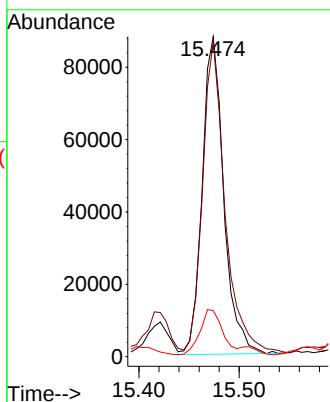
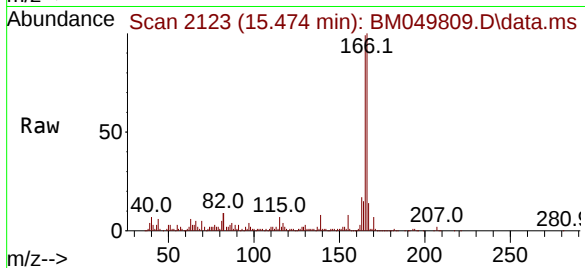
Tgt Ion:166 Resp: 131580

Ion Ratio Lower Upper

166 100

165 98.5 77.5 116.3

167 14.4 10.9 16.3



#62

4-Nitroaniline

Concen: 3.938 ng

RT: 15.474 min Scan# 2123

Delta R.T. -0.030 min

Lab File: BM049809.D

Acq: 03 Apr 2025 17:14

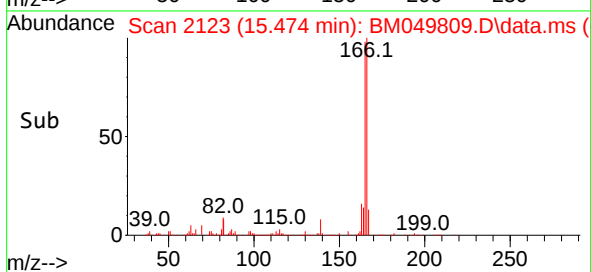
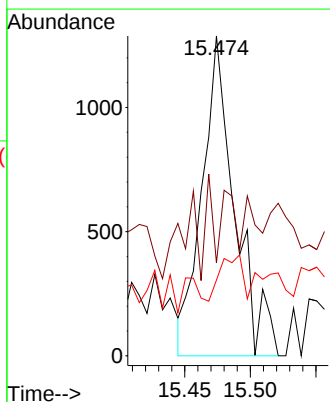
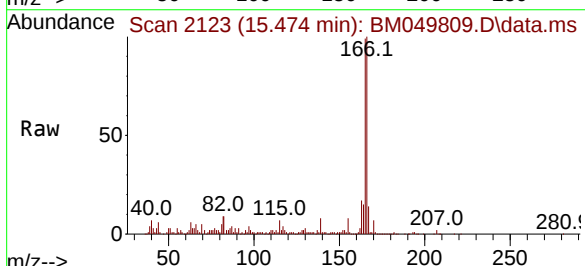
Tgt Ion:138 Resp: 2239

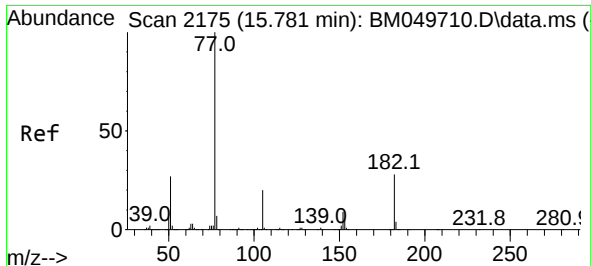
Ion Ratio Lower Upper

138 100

92 29.0 29.8 69.8#

108 23.7 61.3 101.3#

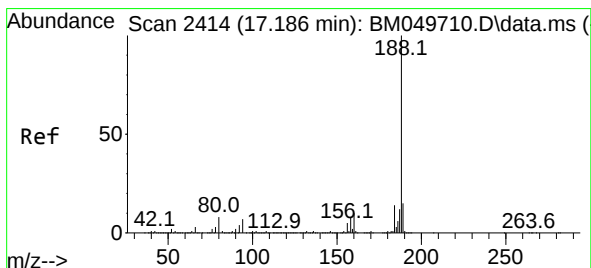
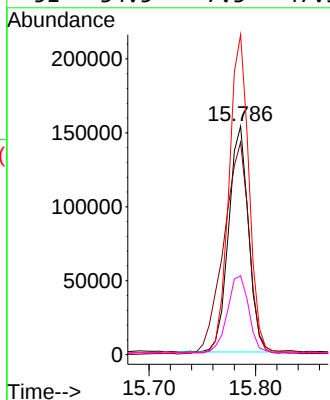
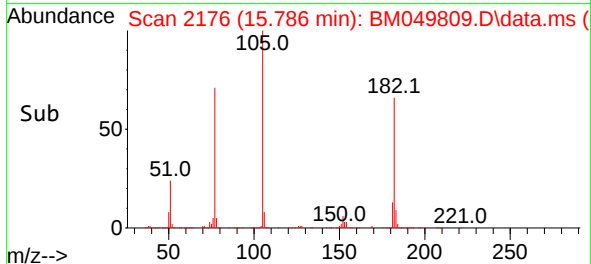
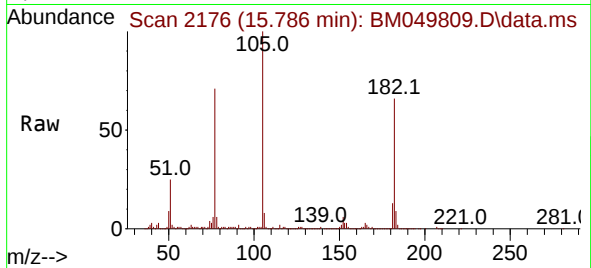




#63
Azobenzene
Concen: 4.393 ng
RT: 15.786 min Scan# 2175
Delta R.T. 0.005 min
Lab File: BM049809.D
Acq: 03 Apr 2025 17:14

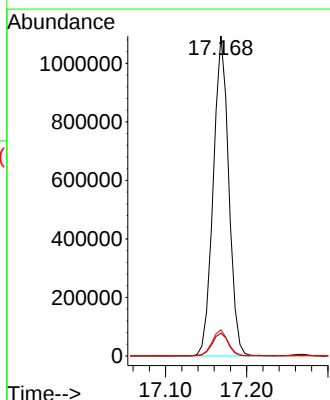
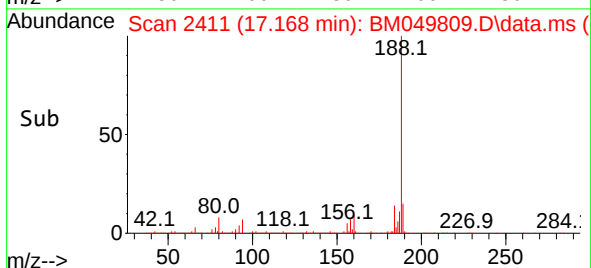
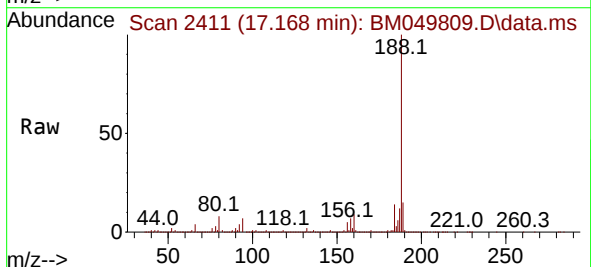
Instrument :
BNA_M
ClientSampleId :
B-10

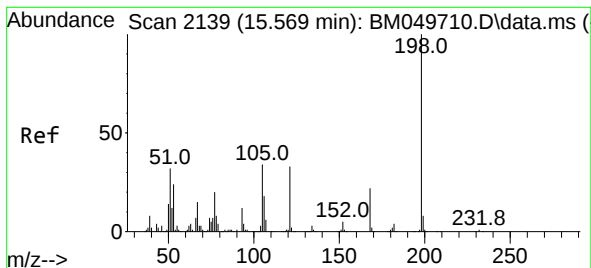
Tgt Ion: 77 Resp: 198555
Ion Ratio Lower Upper
77 100
182 93.0 8.0 48.0#
105 140.1 0.0 40.0#
51 34.5 7.3 47.3



#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.168 min Scan# 2411
Delta R.T. -0.018 min
Lab File: BM049809.D
Acq: 03 Apr 2025 17:14

Tgt Ion: 188 Resp: 1449581
Ion Ratio Lower Upper
188 100
94 7.1 5.8 8.6
80 8.1 6.3 9.5

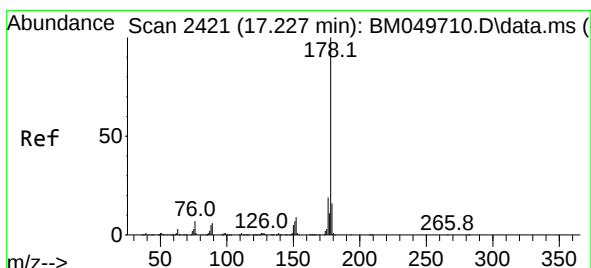
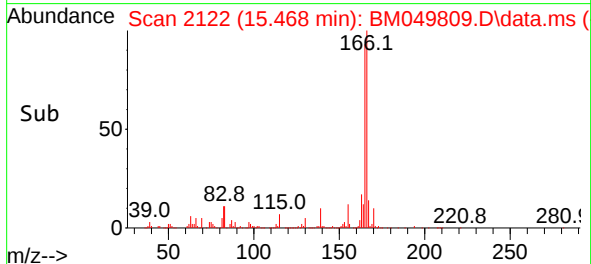
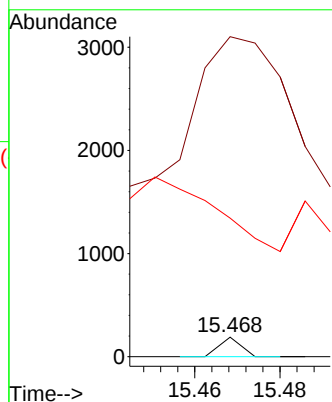
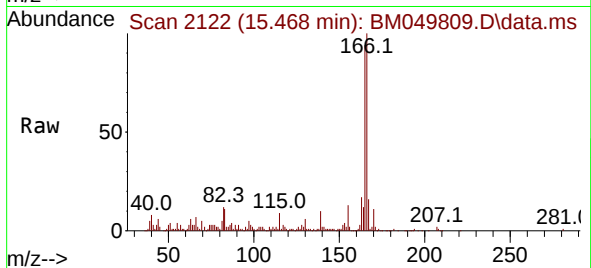




#65
4,6-Dinitro-2-methylphenol
Concen: 3.024 ng
RT: 15.468 min Scan# 2139
Delta R.T. -0.101 min
Lab File: BM049809.D
Acq: 03 Apr 2025 17:14

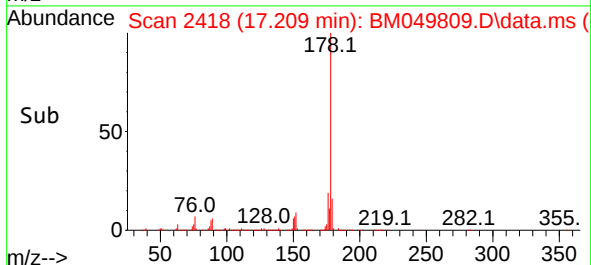
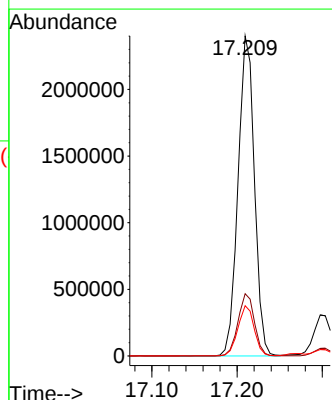
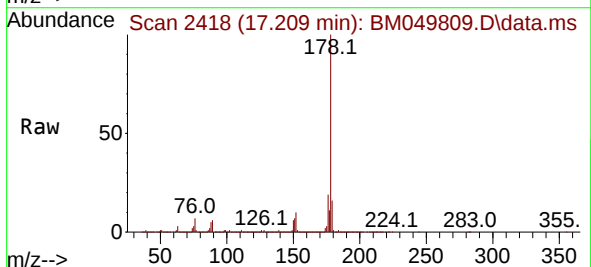
Instrument :
BNA_M
ClientSampleId :
B-10

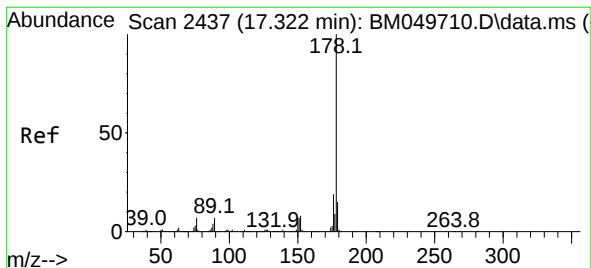
Tgt Ion:198 Resp: 67
Ion Ratio Lower Upper
198 100
51 1641.8 13.8 53.8#
105 710.6 14.0 54.0#



#71
Phenanthrene
Concen: 39.850 ng
RT: 17.209 min Scan# 2418
Delta R.T. -0.018 min
Lab File: BM049809.D
Acq: 03 Apr 2025 17:14

Tgt Ion:178 Resp: 3207601
Ion Ratio Lower Upper
178 100
176 19.4 15.5 23.3
179 15.7 12.5 18.7





#72

Anthracene

Concen: 5.556 ng

RT: 17.298 min Scan# 24

Delta R.T. -0.024 min

Lab File: BM049809.D

Acq: 03 Apr 2025 17:14

Instrument :

BNA_M

ClientSampleId :

B-10

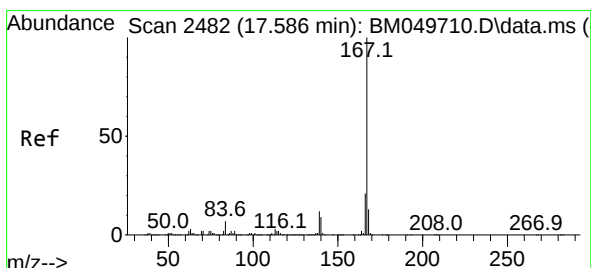
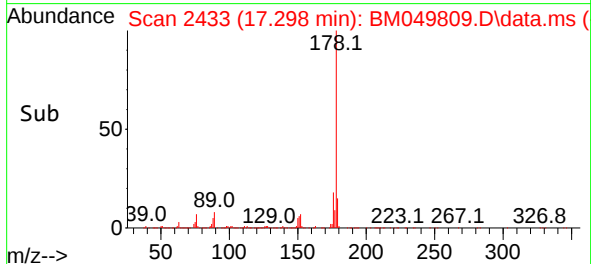
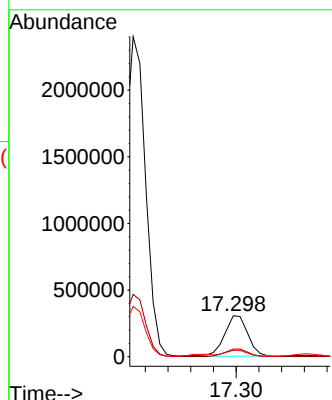
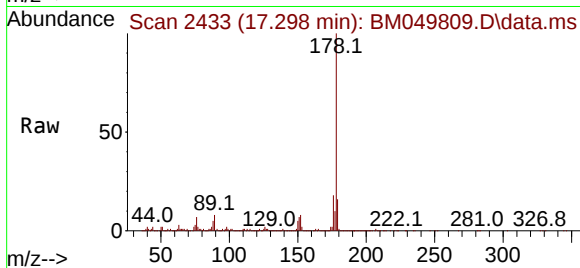
Tgt Ion:178 Resp: 433091

Ion Ratio Lower Upper

178 100

176 18.5 15.1 22.7

179 15.8 12.4 18.6



#73

Carbazole

Concen: 2.051 ng

RT: 17.568 min Scan# 2479

Delta R.T. -0.018 min

Lab File: BM049809.D

Acq: 03 Apr 2025 17:14

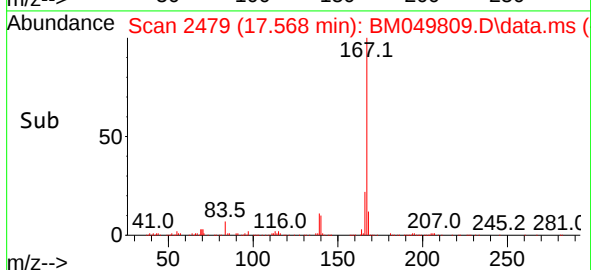
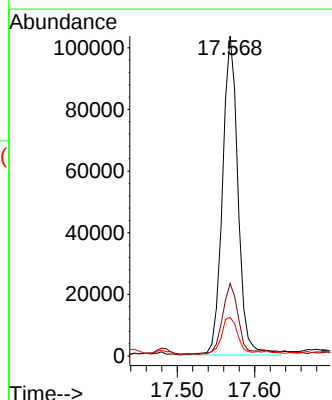
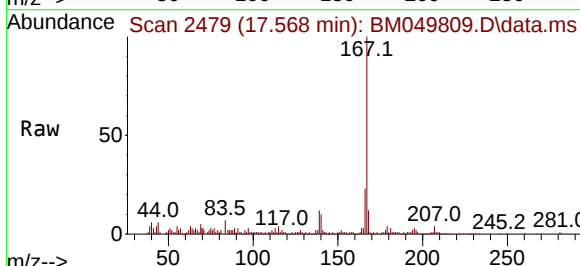
Tgt Ion:167 Resp: 144787

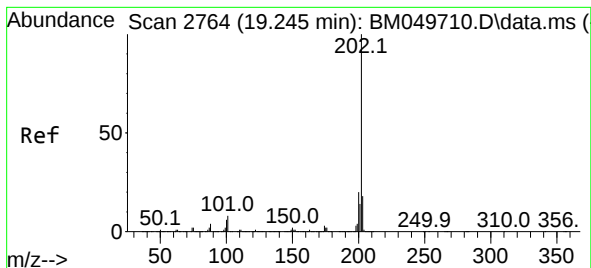
Ion Ratio Lower Upper

167 100

166 22.6 17.0 25.6

139 12.1 9.4 14.2





#75

Fluoranthene

Concen: 51.758 ng

RT: 19.227 min Scan# 21

Delta R.T. -0.018 min

Lab File: BM049809.D

Acq: 03 Apr 2025 17:14

Instrument :

BNA_M

ClientSampleId :

B-10

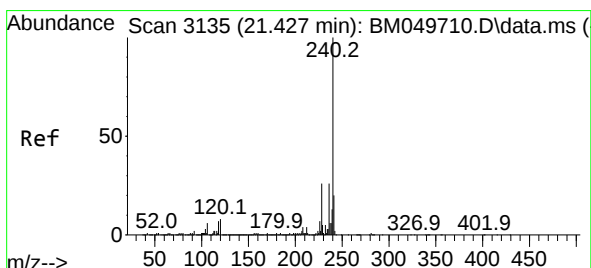
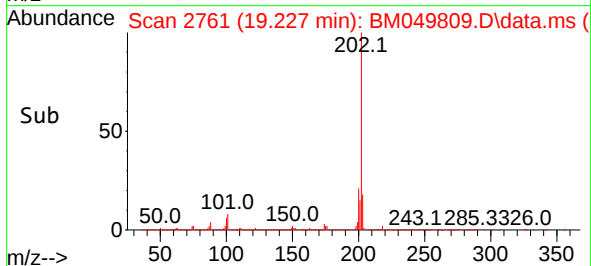
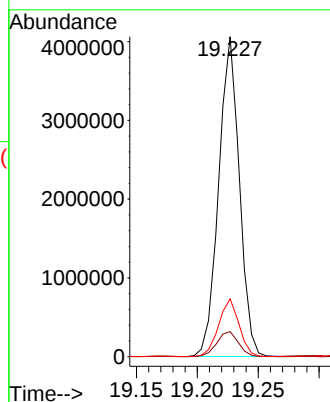
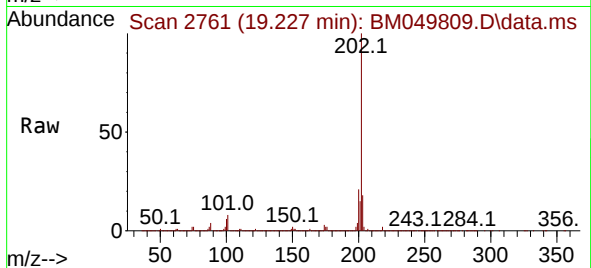
Tgt Ion:202 Resp: 4796426

Ion Ratio Lower Upper

202 100

101 7.9 0.0 27.8

203 18.0 0.0 37.6



#76

Chrysene-d12

Concen: 20.000 ng

RT: 21.403 min Scan# 3131

Delta R.T. -0.024 min

Lab File: BM049809.D

Acq: 03 Apr 2025 17:14

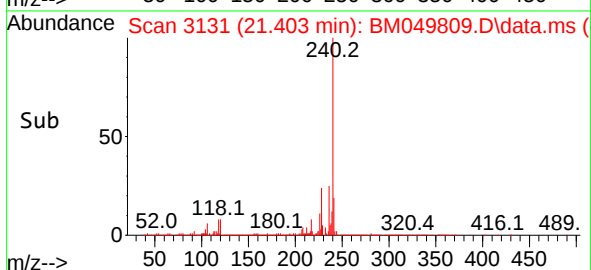
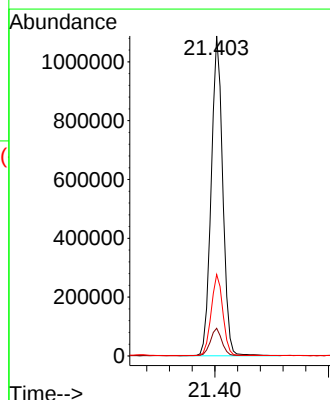
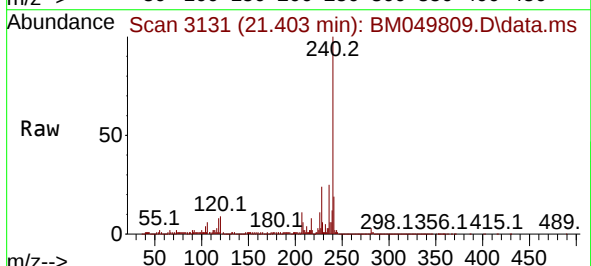
Tgt Ion:240 Resp: 1521361

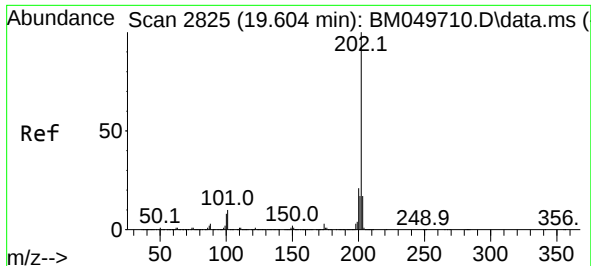
Ion Ratio Lower Upper

240 100

120 8.6 6.5 9.7

236 25.5 20.7 31.1

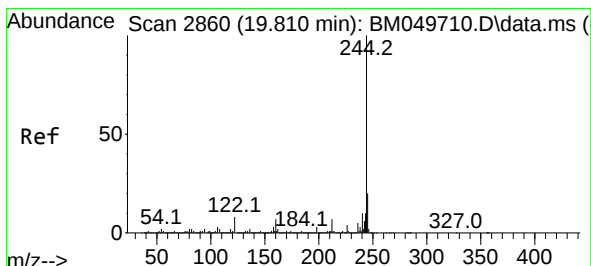
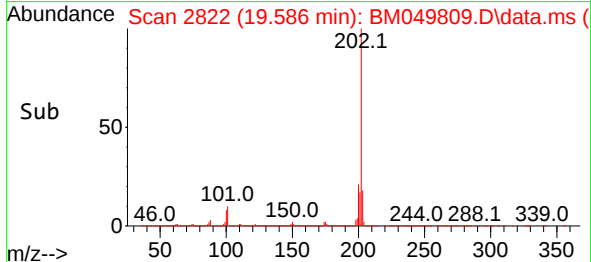
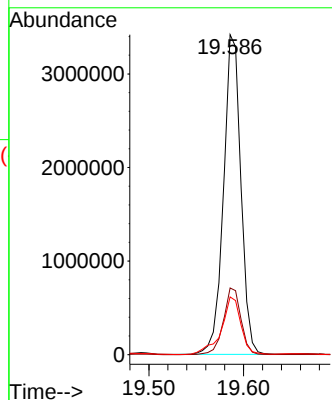
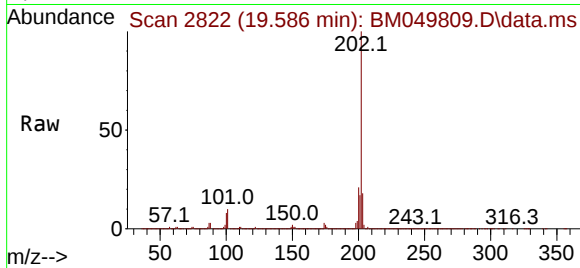




#78
Pyrene
Concen: 41.007 ng
RT: 19.586 min Scan# 2822
Delta R.T. -0.018 min
Lab File: BM049809.D
Acq: 03 Apr 2025 17:14

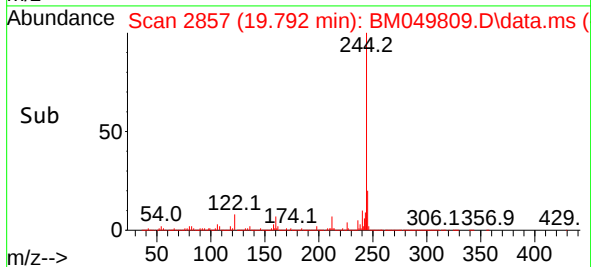
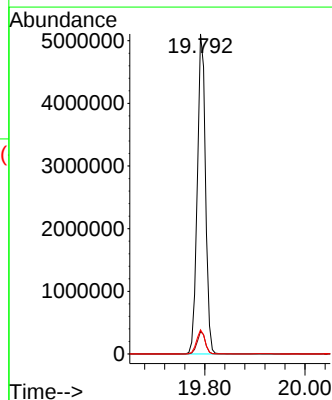
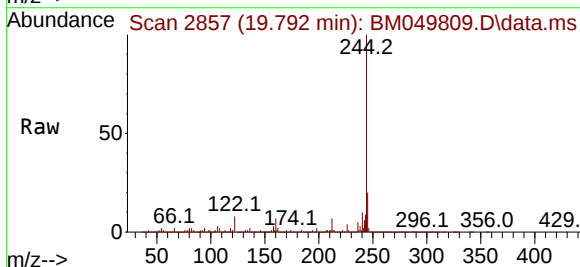
Instrument :
BNA_M
ClientSampleId :
B-10

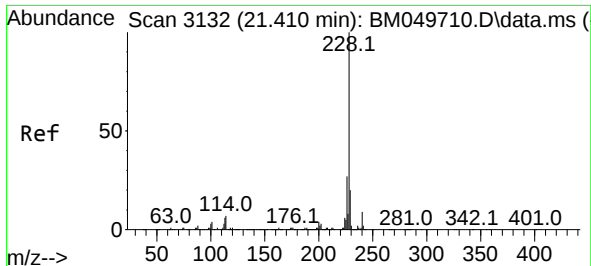
Tgt Ion:202 Resp: 4358681
Ion Ratio Lower Upper
202 100
200 20.9 17.0 25.4
203 18.1 14.0 21.0



#79
Terphenyl-d14
Concen: 63.667 ng
RT: 19.792 min Scan# 2857
Delta R.T. -0.018 min
Lab File: BM049809.D
Acq: 03 Apr 2025 17:14

Tgt Ion:244 Resp: 5747969
Ion Ratio Lower Upper
244 100
212 7.0 5.8 8.6
122 7.6 6.0 9.0

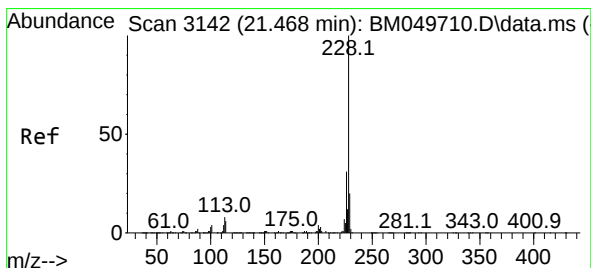
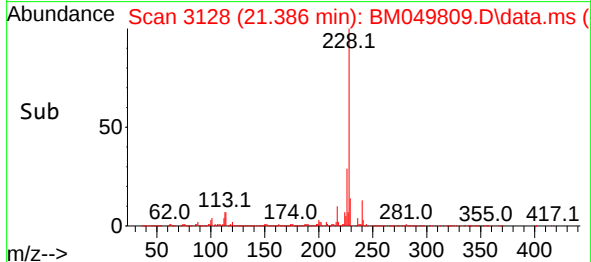
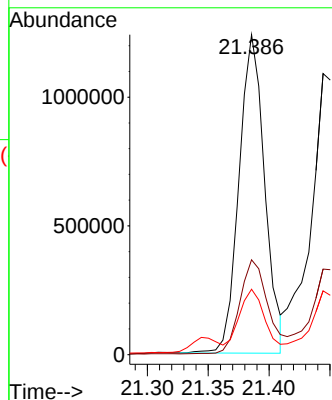
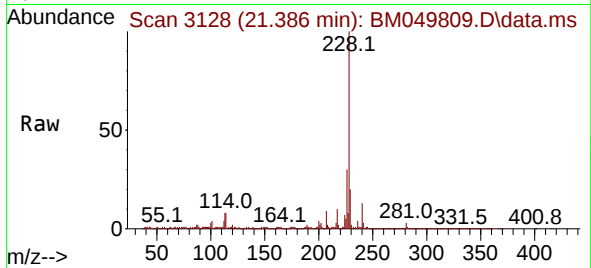




#81
Benzo(a)anthracene
Concen: 17.822 ng
RT: 21.386 min Scan# 3132
Delta R.T. -0.024 min
Lab File: BM049809.D
Acq: 03 Apr 2025 17:14

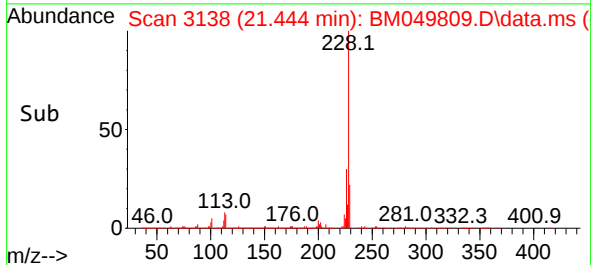
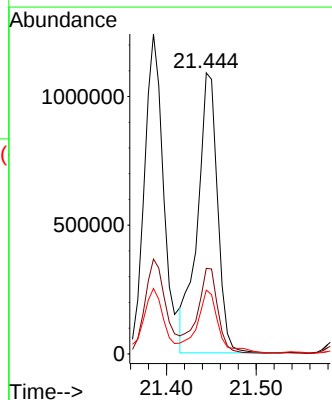
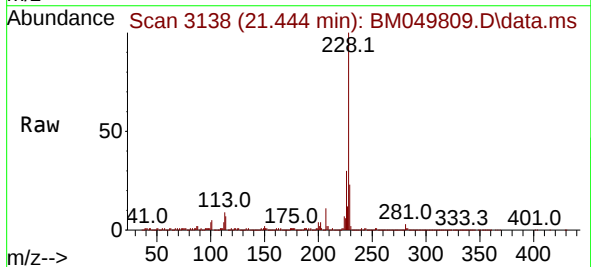
Instrument :
BNA_M
ClientSampleId :
B-10

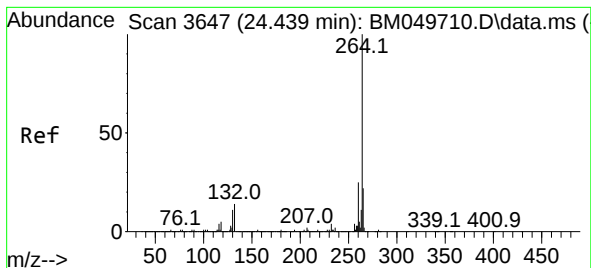
Tgt Ion:228 Resp: 1810981
Ion Ratio Lower Upper
228 100
226 29.7 22.0 33.0
229 20.5 15.8 23.8



#83
Chrysene
Concen: 17.593 ng
RT: 21.444 min Scan# 3138
Delta R.T. -0.024 min
Lab File: BM049809.D
Acq: 03 Apr 2025 17:14

Tgt Ion:228 Resp: 1694712
Ion Ratio Lower Upper
228 100
226 30.5 24.5 36.7
229 22.7 15.8 23.6





#86

Perylene-d12

Concen: 20.000 ng

RT: 24.403 min Scan# 3

Delta R.T. -0.036 min

Lab File: BM049809.D

Acq: 03 Apr 2025 17:14

Instrument :

BNA_M

ClientSampleId :

B-10

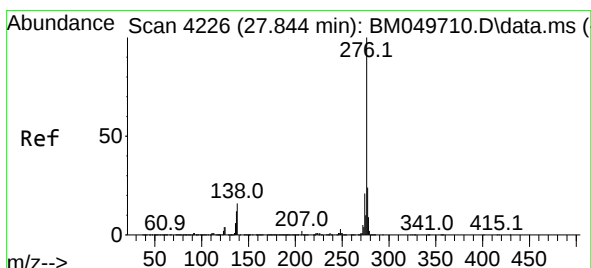
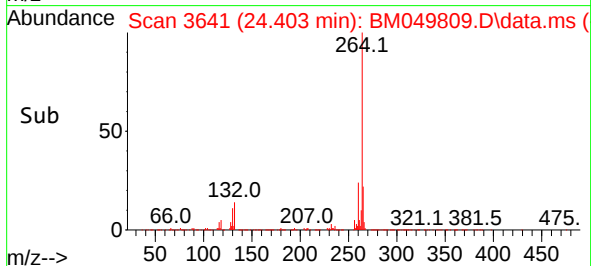
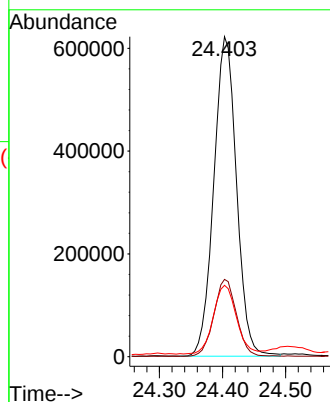
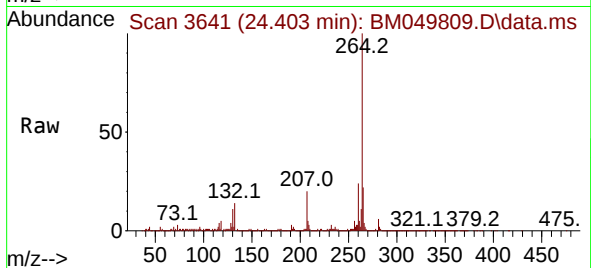
Tgt Ion:264 Resp: 1553148

Ion Ratio Lower Upper

264 100

260 24.2 19.6 29.4

265 22.3 18.2 27.2



#87

Indeno(1,2,3-cd)pyrene

Concen: 8.572 ng

RT: 27.779 min Scan# 4215

Delta R.T. -0.065 min

Lab File: BM049809.D

Acq: 03 Apr 2025 17:14

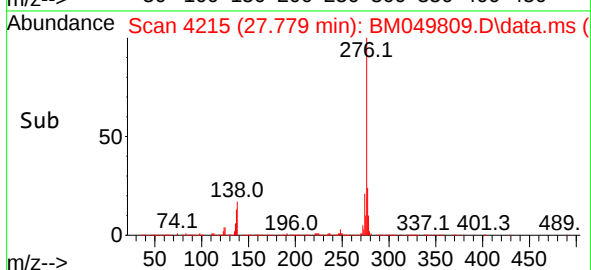
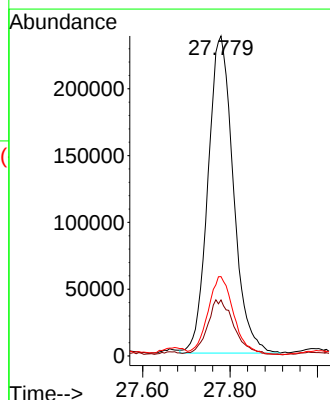
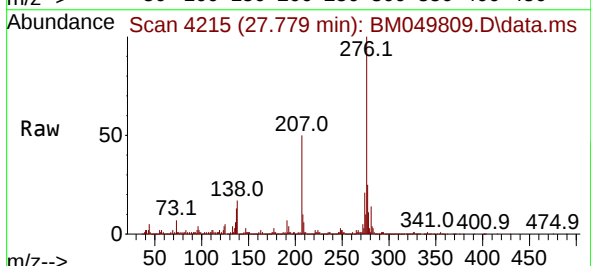
Tgt Ion:276 Resp: 958233

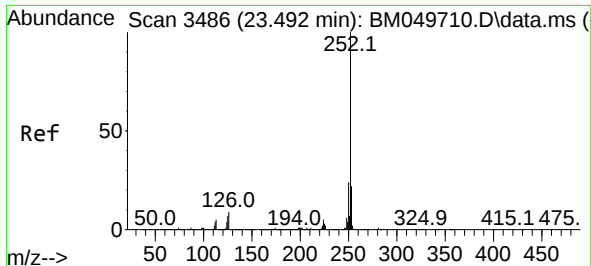
Ion Ratio Lower Upper

276 100

138 18.3 16.3 24.5

277 24.7 19.9 29.9

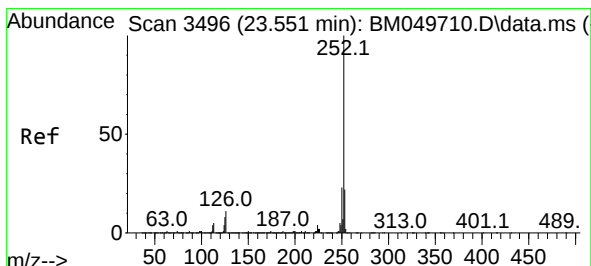
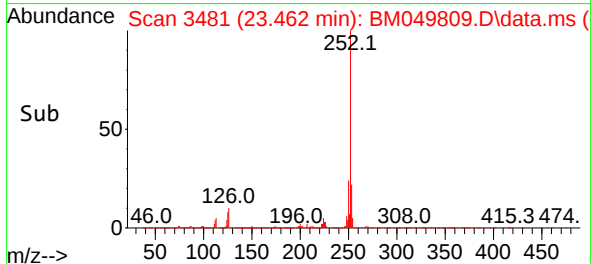
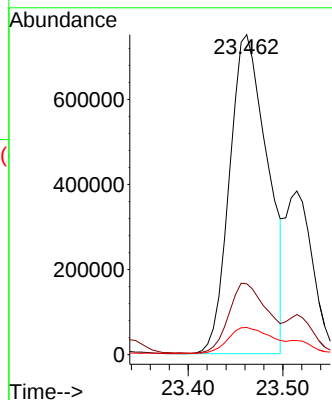
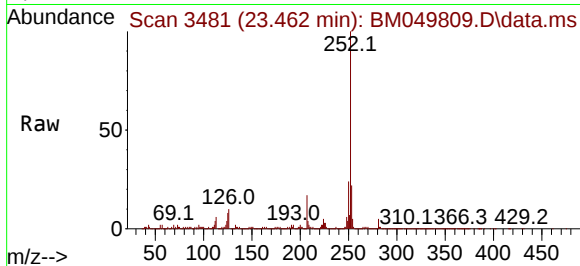




#88
Benzo(b)fluoranthene
Concen: 20.031 ng
RT: 23.462 min Scan# 3486
Delta R.T. -0.030 min
Lab File: BM049809.D
Acq: 03 Apr 2025 17:14

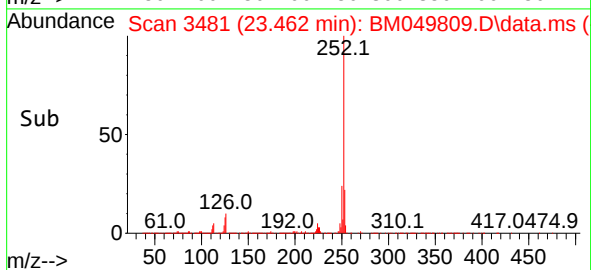
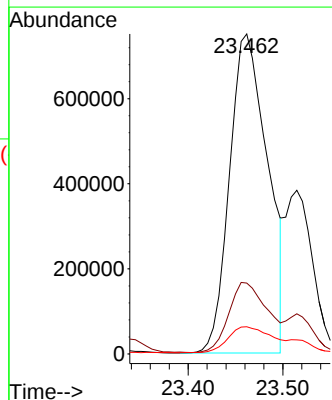
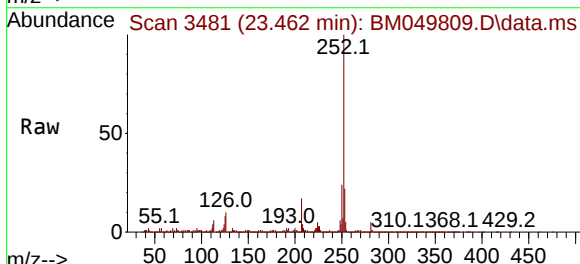
Instrument :
BNA_M
ClientSampleId :
B-10

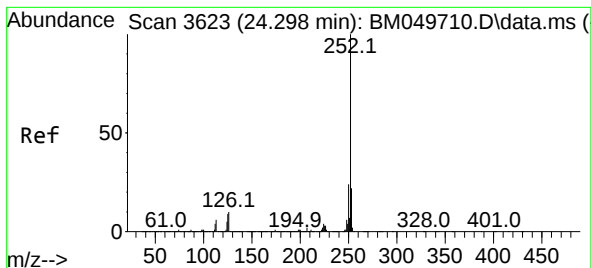
Tgt Ion:252 Resp: 2095453
Ion Ratio Lower Upper
252 100
253 22.1 17.4 26.0
125 8.5 5.9 8.9



#89
Benzo(k)fluoranthene
Concen: 20.357 ng
RT: 23.462 min Scan# 3481
Delta R.T. -0.089 min
Lab File: BM049809.D
Acq: 03 Apr 2025 17:14

Tgt Ion:252 Resp: 2095453
Ion Ratio Lower Upper
252 100
253 22.1 17.3 25.9
125 8.5 6.2 9.2





#90

Benzo(a)pyrene

Concen: 16.665 ng

RT: 24.262 min Scan# 3

Delta R.T. -0.036 min

Lab File: BM049809.D

Acq: 03 Apr 2025 17:14

Instrument :

BNA_M

ClientSampleId :

B-10

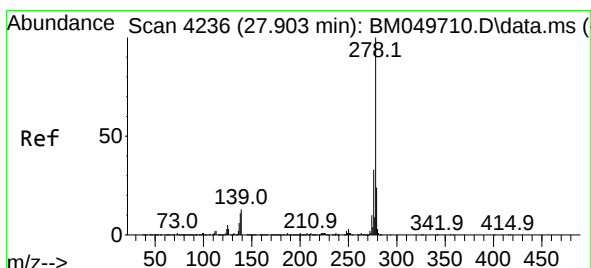
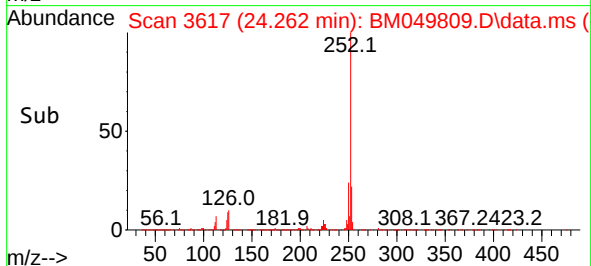
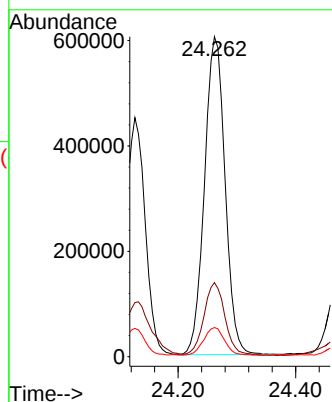
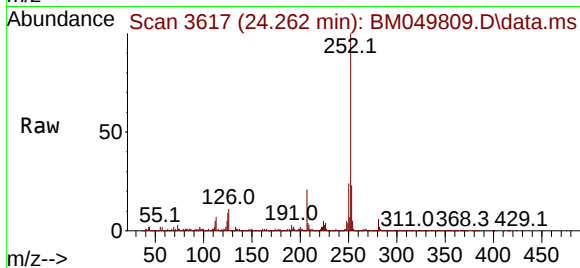
Tgt Ion:252 Resp: 1464351

Ion Ratio Lower Upper

252 100

253 23.1 17.2 25.8

125 9.1 7.0 10.6



#91

Dibenzo(a,h)anthracene

Concen: 2.625 ng

RT: 27.826 min Scan# 4223

Delta R.T. -0.077 min

Lab File: BM049809.D

Acq: 03 Apr 2025 17:14

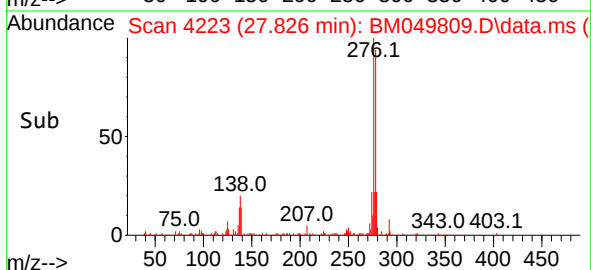
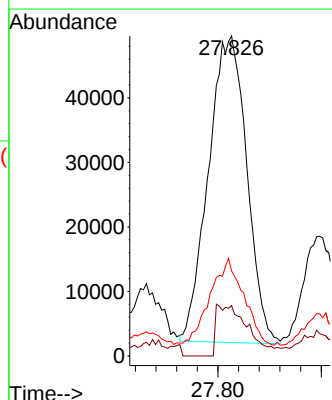
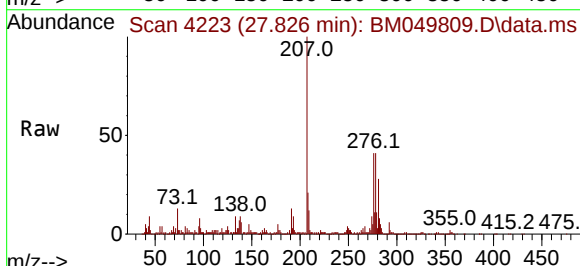
Tgt Ion:278 Resp: 244475

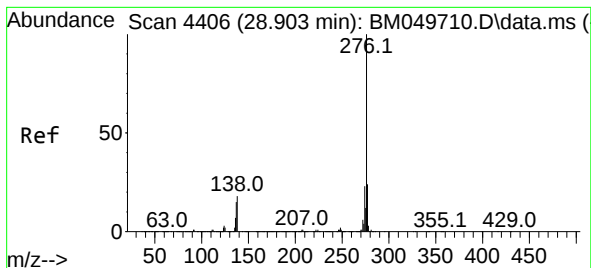
Ion Ratio Lower Upper

278 100

139 15.8 10.1 15.1#

279 26.6 19.1 28.7





#92

Benzo(g,h,i)perylene

Concen: 9.943 ng

RT: 28.832 min Scan# 41

Delta R.T. -0.071 min

Lab File: BM049809.D

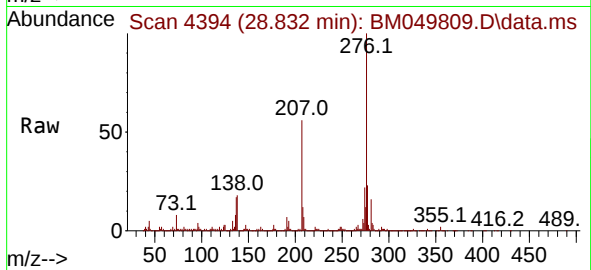
Acq: 03 Apr 2025 17:14

Instrument :

BNA_M

ClientSampleId :

B-10



Tgt Ion:276 Resp: 932851

Ion Ratio Lower Upper

276 100

277 23.1 18.8 28.2

138 17.6 14.0 21.0

