

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM041525\
 Data File : BM049934.D
 Acq On : 15 Apr 2025 14:35
 Operator : RC/JU
 Sample : Q1787-09
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 TP-1

Quant Time: Apr 15 15:24:01 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM040825.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Apr 09 04:00:55 2025
 Response via : Initial Calibration

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

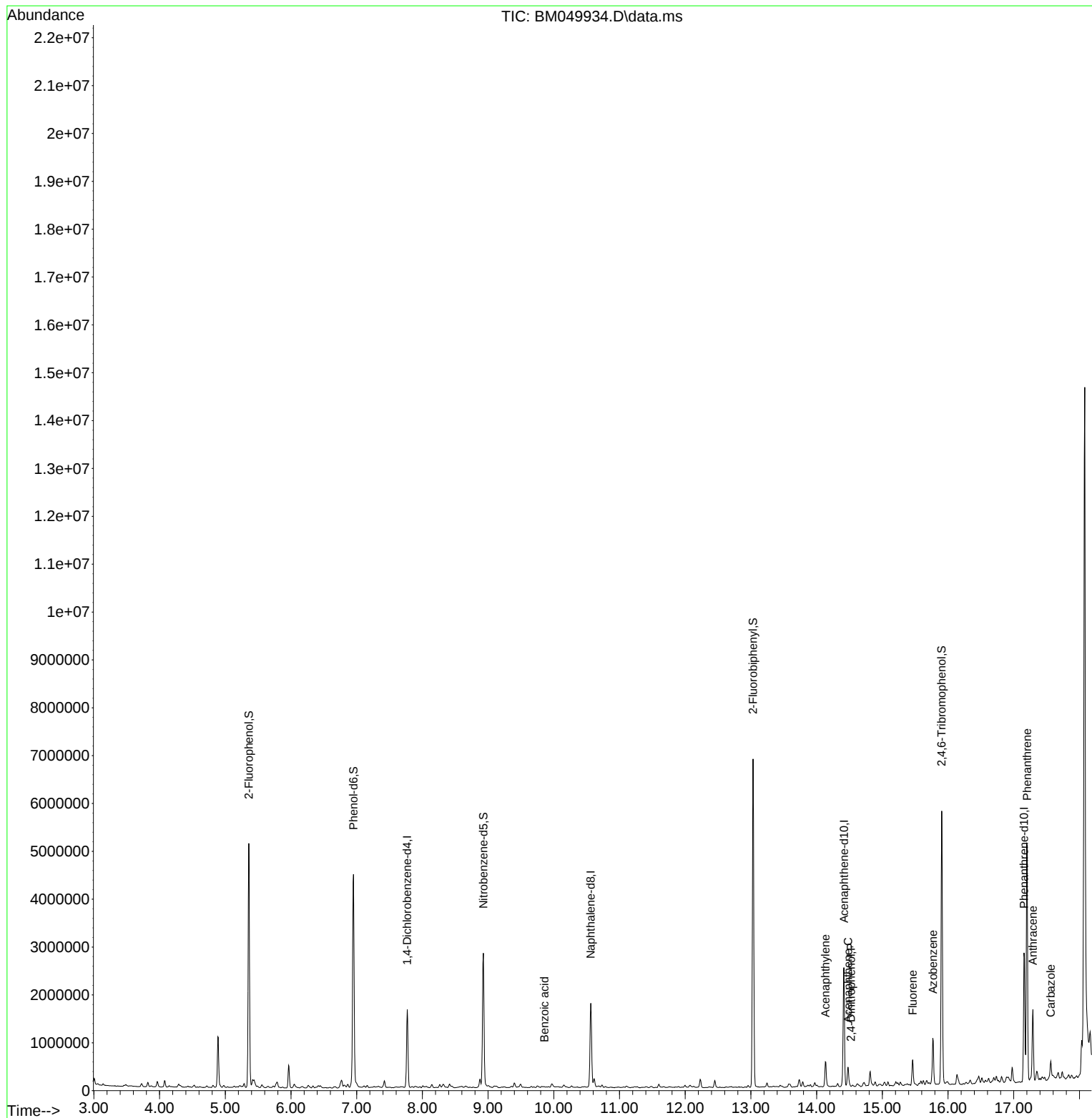
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.769	152	455050	20.000	ng	-0.01
21) Naphthalene-d8	10.563	136	1509782	20.000	ng	-0.01
39) Acenaphthene-d10	14.415	164	897752	20.000	ng	0.00
64) Phenanthrene-d10	17.156	188	1659775	20.000	ng	0.00
76) Chrysene-d12	21.403	240	1689044	20.000	ng	0.00
86) Perylene-d12	24.403	264	1851252	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.357	112	2262102	84.413	ng	0.00
7) Phenol-d6	6.951	99	2719334	81.560	ng	0.00
23) Nitrobenzene-d5	8.927	82	1632790	60.222	ng	0.00
42) 2,4,6-Tribromophenol	15.903	330	1127406	86.337	ng	0.00
45) 2-Fluorobiphenyl	13.033	172	3743563	56.545	ng	-0.01
79) Terphenyl-d14	19.786	244	4446142	49.331	ng	0.00
Target Compounds						Qvalue
32) Benzoic acid	9.857	122	514	8.560	ng	# 15
49) Acenaphthylene	14.133	152	418283	5.474	ng	98
52) Acenaphthene	14.480	154	146207	3.008	ng	98
54) 2,4-Dinitrophenol	14.521	184	81	7.232	ng	# 1
58) Fluorene	15.462	166	232325	3.597	ng	98
63) Azobenzene	15.768	77	240038	4.616	ng	# 1
71) Phenanthrene	17.203	178	3103045	34.101	ng	100
72) Anthracene	17.292	178	967286	10.787	ng	100
73) Carbazole	17.562	167	247061	2.925	ng	99
75) Fluoranthene	19.221	202	6805391	60.826	ng	99
78) Pyrene	19.586	202	6258940	53.768	ng	99
81) Benzo(a)anthracene	21.380	228	4147532	36.948	ng	97
83) Chrysene	21.444	228	3570674	33.458	ng	97
87) Indeno(1,2,3-cd)pyrene	27.797	276	2895328	20.981	ng	97
88) Benzo(b)fluoranthene	23.462	252	5630945	47.626	ng	99
89) Benzo(k)fluoranthene	23.515	252	1618819	14.129	ng	97
90) Benzo(a)pyrene	24.262	252	4270302	41.102	ng	99
91) Dibenzo(a,h)anthracene	27.826	278	750329	6.601	ng	93
92) Benzo(g,h,i)perylene	28.856	276	2799189	24.100	ng	100

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

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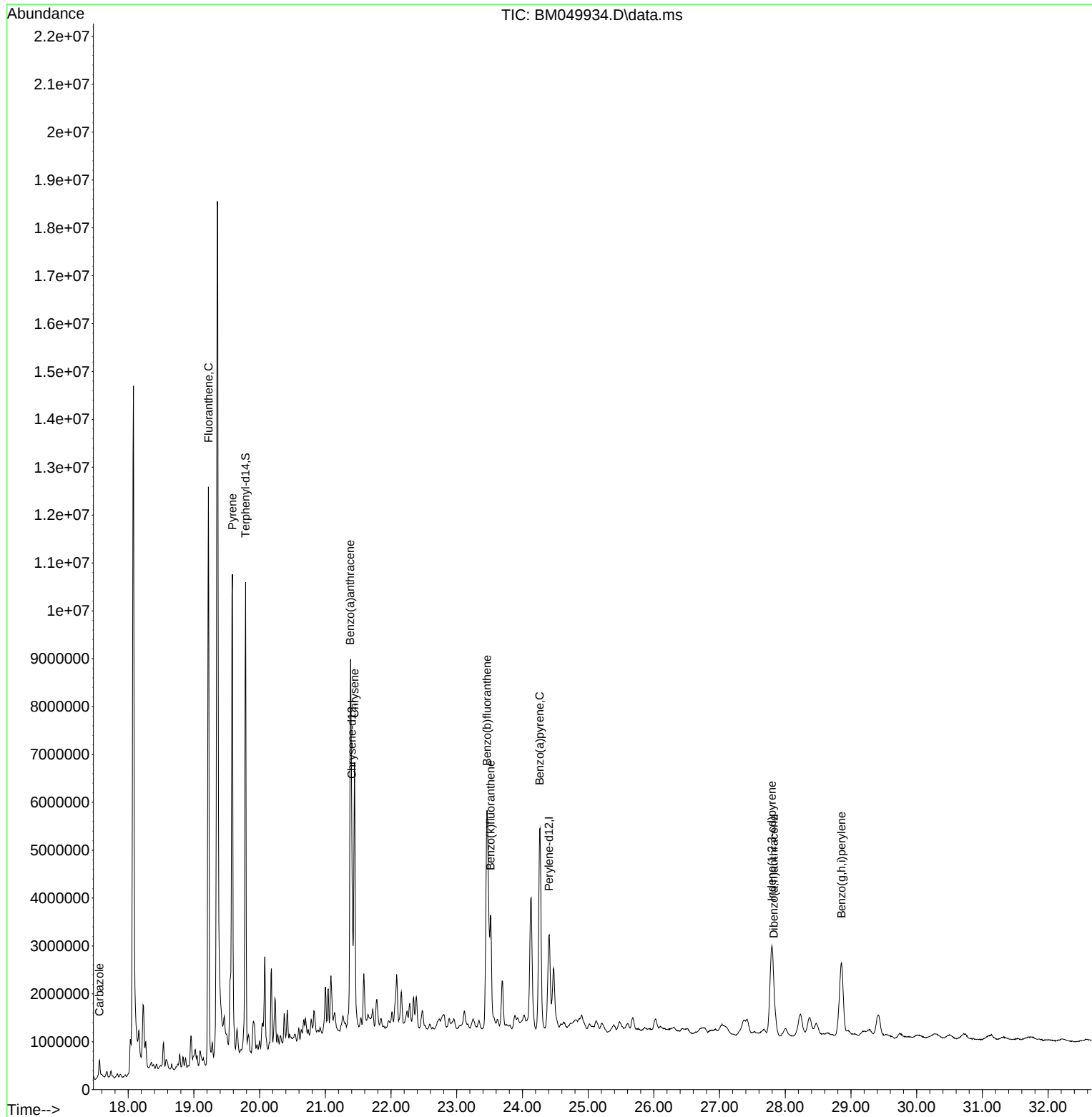
Quant Time: Apr 15 15:24:01 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM040825.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Apr 09 04:00:55 2025
Response via : Initial Calibration

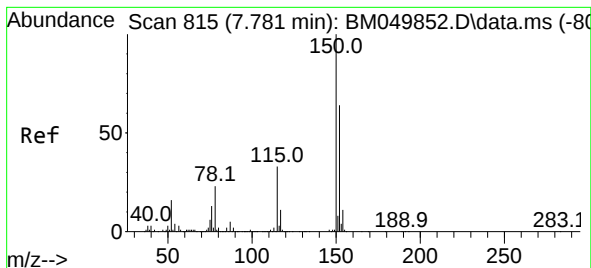


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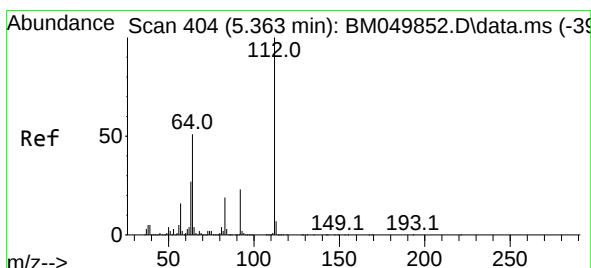
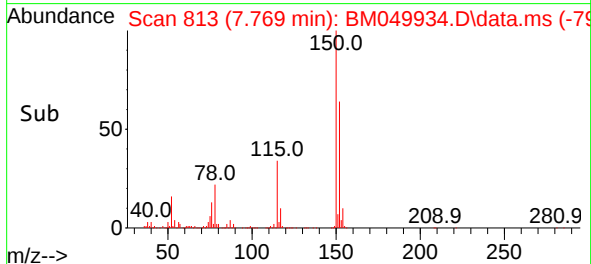
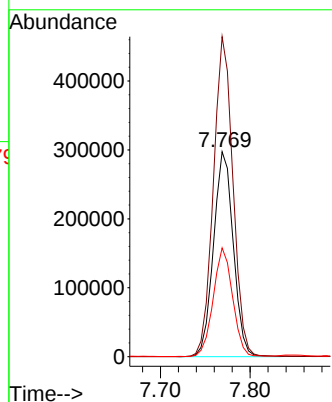
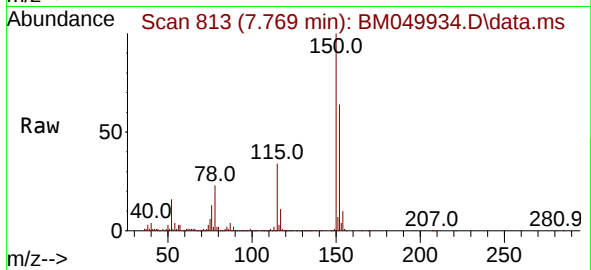




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.769 min Scan# 815
Delta R.T. -0.012 min
Lab File: BM049934.D
Acq: 15 Apr 2025 14:35

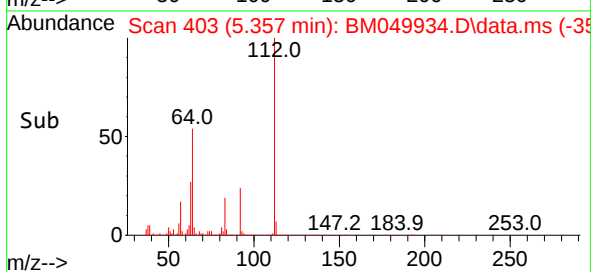
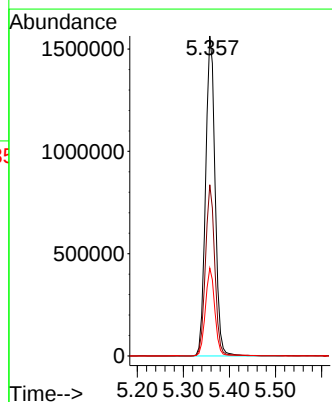
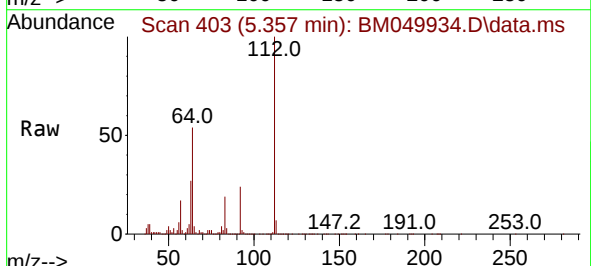
Instrument :
BNA_M
ClientSampleId :
TP-1

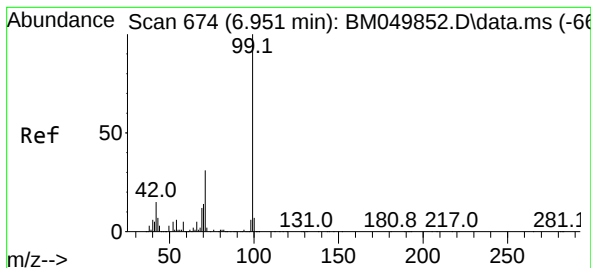
Tgt Ion:152 Resp: 455050
Ion Ratio Lower Upper
152 100
150 156.1 124.3 186.5
115 53.1 41.1 61.7



#5
2-Fluorophenol
Concen: 84.413 ng
RT: 5.357 min Scan# 403
Delta R.T. -0.006 min
Lab File: BM049934.D
Acq: 15 Apr 2025 14:35

Tgt Ion:112 Resp: 2262102
Ion Ratio Lower Upper
112 100
64 53.5 41.0 61.6
63 27.5 21.5 32.3





#7

Phenol-d6

Concen: 81.560 ng

RT: 6.951 min Scan# 61

Delta R.T. -0.000 min

Lab File: BM049934.D

Acq: 15 Apr 2025 14:35

Instrument :

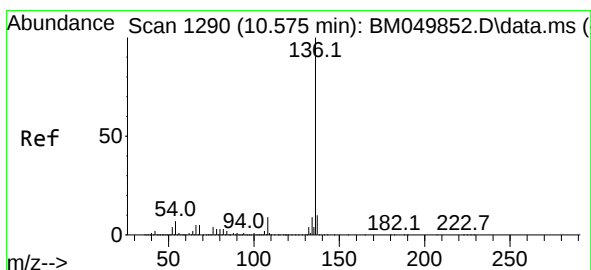
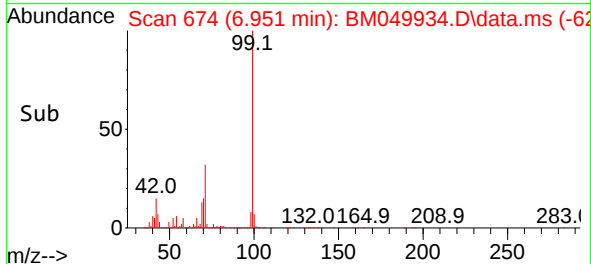
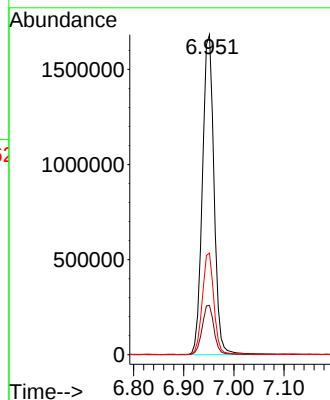
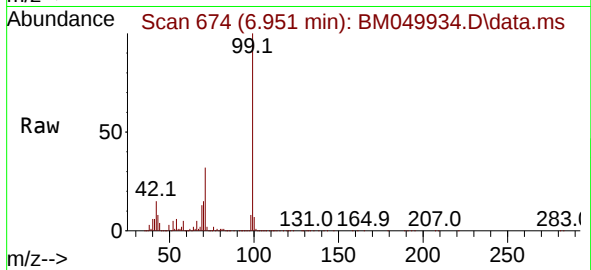
BNA_M

ClientSampleId :

TP-1

Tgt Ion: 99 Resp: 2719334

Ion	Ratio	Lower	Upper
99	100		
42	15.4	12.1	18.1
71	31.8	24.9	37.3



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 10.563 min Scan# 1288

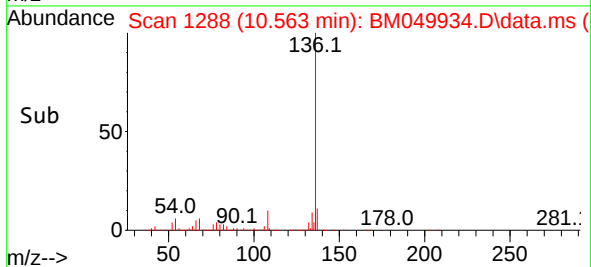
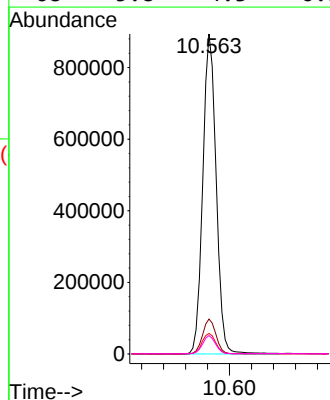
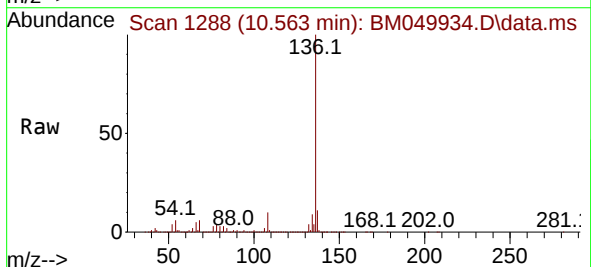
Delta R.T. -0.012 min

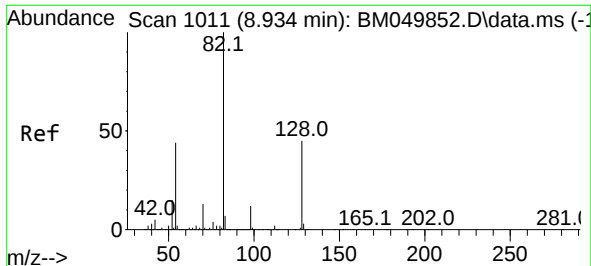
Lab File: BM049934.D

Acq: 15 Apr 2025 14:35

Tgt Ion: 136 Resp: 1509782

Ion	Ratio	Lower	Upper
136	100		
137	10.9	8.4	12.6
54	6.4	5.3	7.9
68	5.8	4.3	6.5

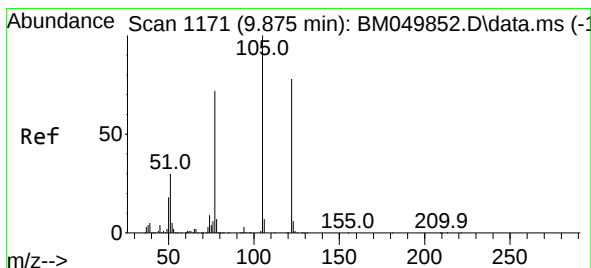
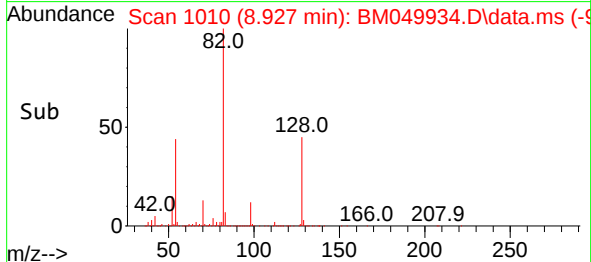
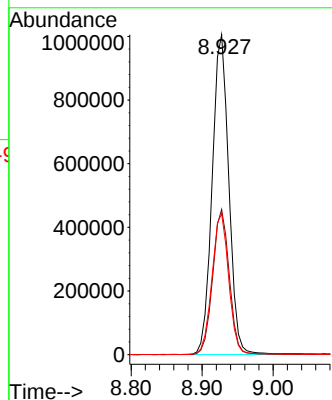
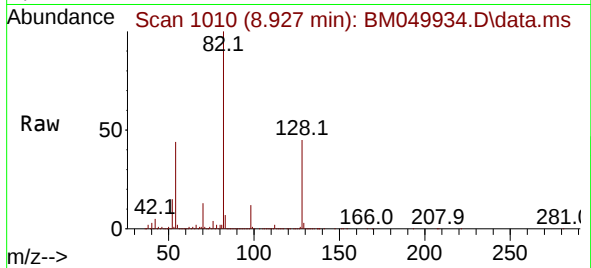




#23
Nitrobenzene-d5
Concen: 60.222 ng
RT: 8.927 min Scan# 1168
Delta R.T. -0.006 min
Lab File: BM049934.D
Acq: 15 Apr 2025 14:35

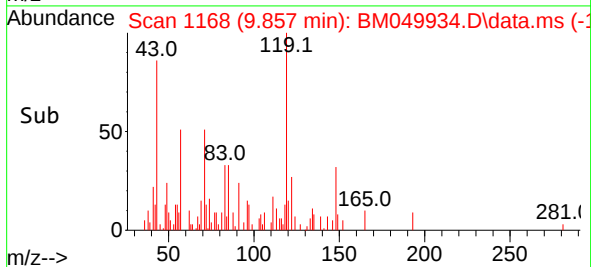
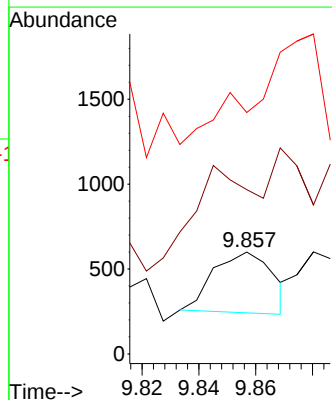
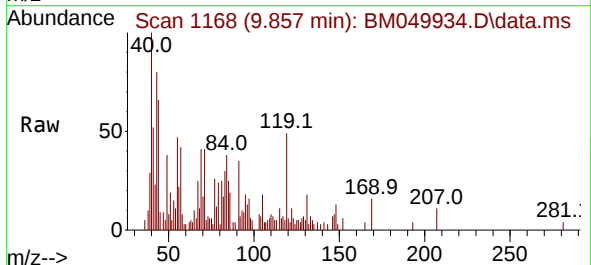
Instrument :
BNA_M
ClientSampleId :
TP-1

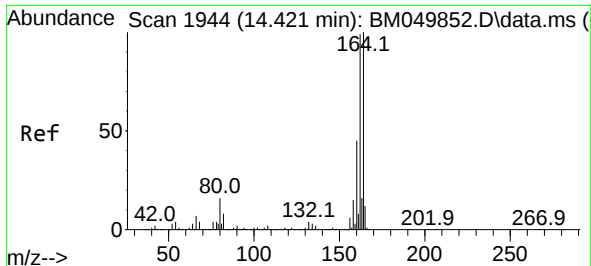
Tgt Ion: 82 Resp: 1632790
Ion Ratio Lower Upper
82 100
128 45.4 36.2 54.2
54 44.1 35.0 52.6



#32
Benzoic acid
Concen: 8.560 ng
RT: 9.857 min Scan# 1168
Delta R.T. -0.018 min
Lab File: BM049934.D
Acq: 15 Apr 2025 14:35

Tgt Ion:122 Resp: 514
Ion Ratio Lower Upper
122 100
105 161.3 103.8 143.8#
77 237.0 70.7 110.7#

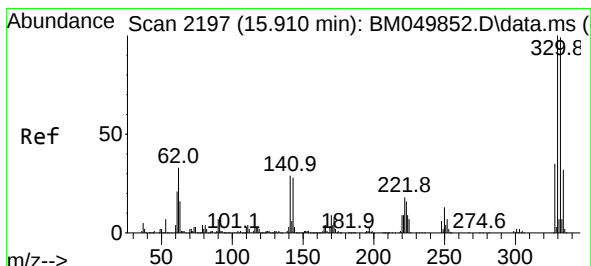
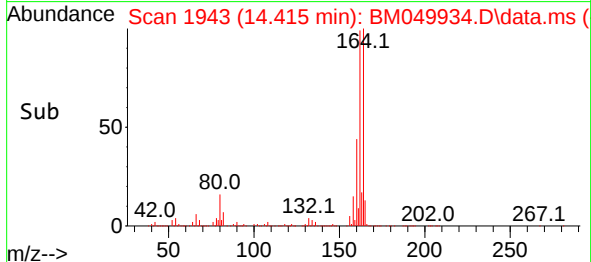
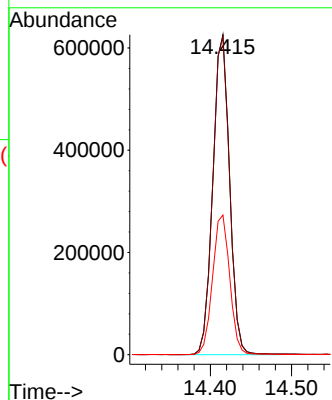
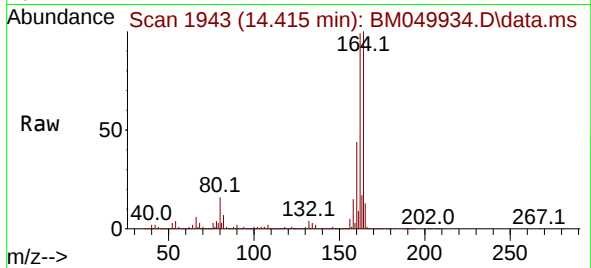




#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.415 min Scan# 1943
Delta R.T. -0.006 min
Lab File: BM049934.D
Acq: 15 Apr 2025 14:35

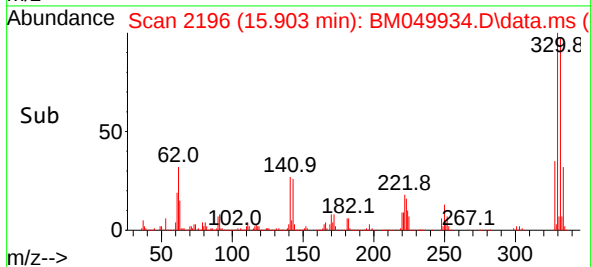
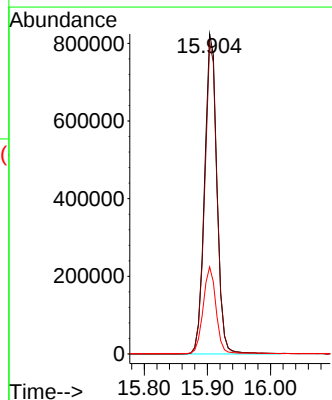
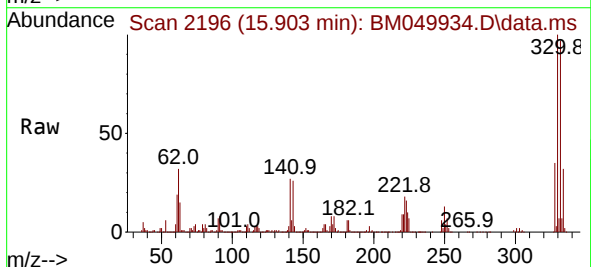
Instrument :
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ClientSampleId :
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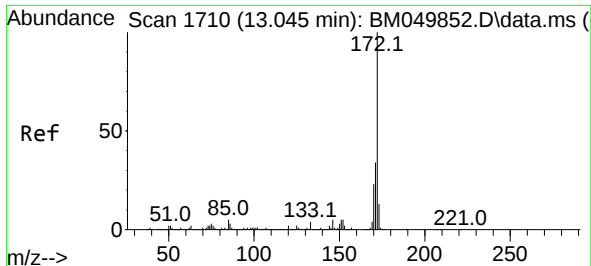
Tgt Ion:164 Resp: 897752
Ion Ratio Lower Upper
164 100
162 99.3 79.4 119.0
160 43.7 36.2 54.2



#42
2,4,6-Tribromophenol
Concen: 86.337 ng
RT: 15.903 min Scan# 2196
Delta R.T. -0.006 min
Lab File: BM049934.D
Acq: 15 Apr 2025 14:35

Tgt Ion:330 Resp: 1127406
Ion Ratio Lower Upper
330 100
332 96.9 78.0 117.0
141 27.7 23.5 35.3

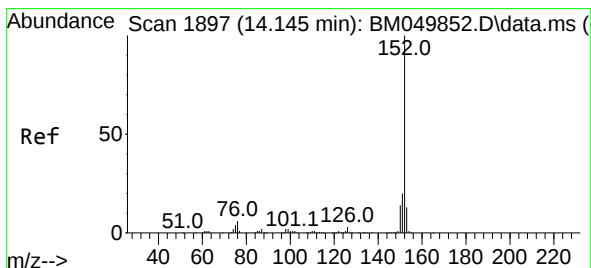
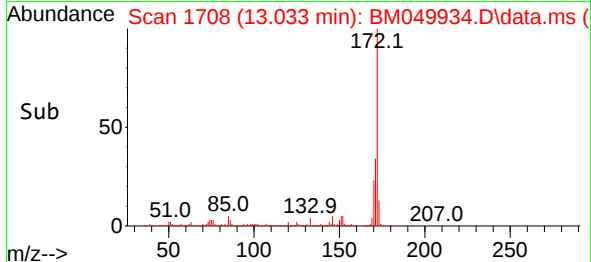
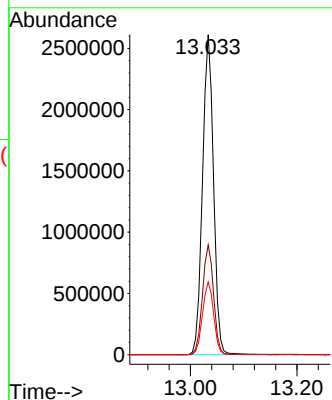
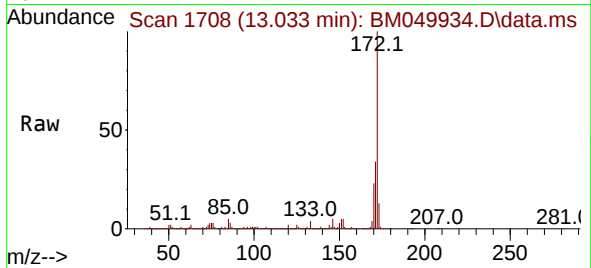




#45
2-Fluorobiphenyl
Concen: 56.545 ng
RT: 13.033 min Scan# 1710
Delta R.T. -0.012 min
Lab File: BM049934.D
Acq: 15 Apr 2025 14:35

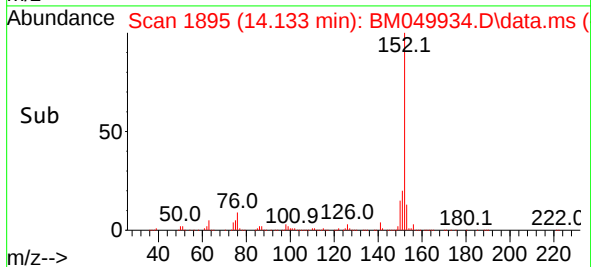
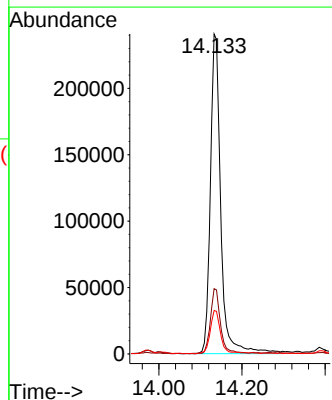
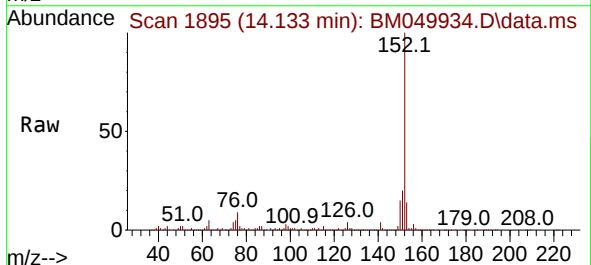
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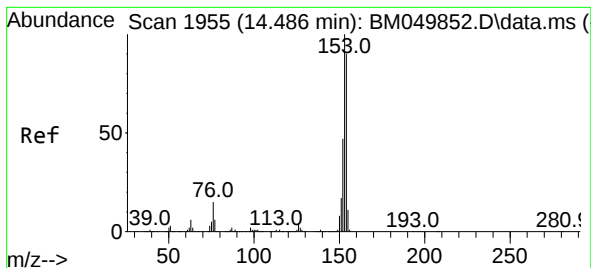
Tgt Ion:172 Resp: 3743563
Ion Ratio Lower Upper
172 100
171 34.3 27.4 41.2
170 22.7 18.6 28.0



#49
Acenaphthylene
Concen: 5.474 ng
RT: 14.133 min Scan# 1895
Delta R.T. -0.012 min
Lab File: BM049934.D
Acq: 15 Apr 2025 14:35

Tgt Ion:152 Resp: 418283
Ion Ratio Lower Upper
152 100
151 20.4 15.7 23.5
153 13.6 10.4 15.6





#52

Acenaphthene

Concen: 3.008 ng

RT: 14.480 min Scan# 1955

Delta R.T. -0.006 min

Lab File: BM049934.D

Acq: 15 Apr 2025 14:35

Instrument :

BNA_M

ClientSampleId :

TP-1

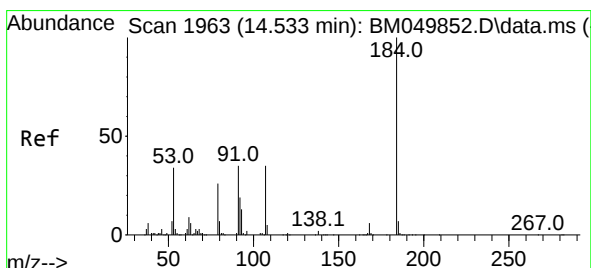
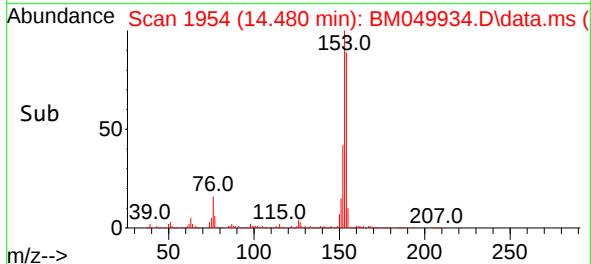
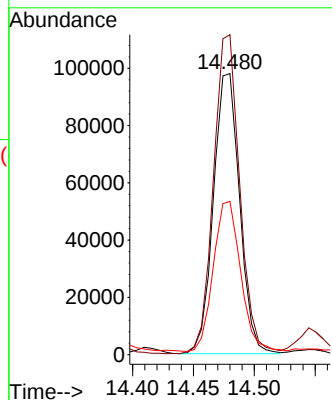
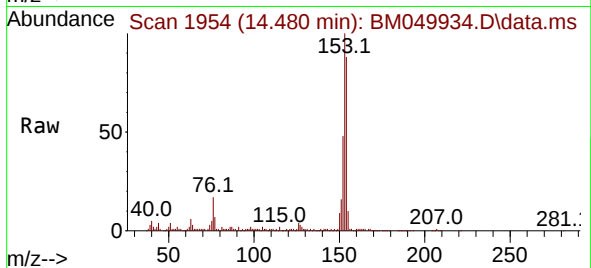
Tgt Ion:154 Resp: 146207

Ion Ratio Lower Upper

154 100

153 113.8 89.3 133.9

152 54.5 42.2 63.2



#54

2,4-Dinitrophenol

Concen: 7.232 ng

RT: 14.521 min Scan# 1961

Delta R.T. -0.012 min

Lab File: BM049934.D

Acq: 15 Apr 2025 14:35

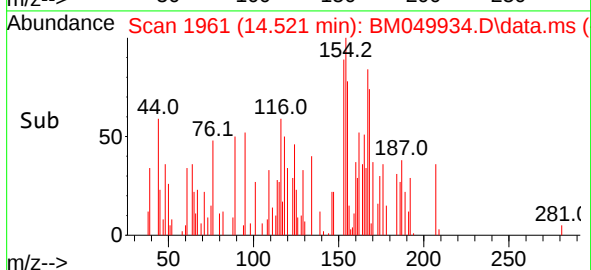
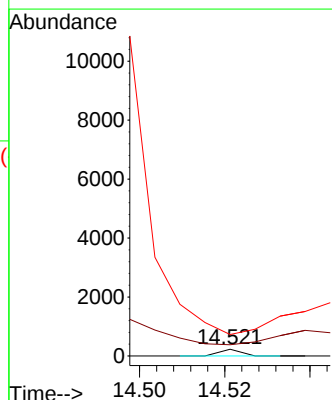
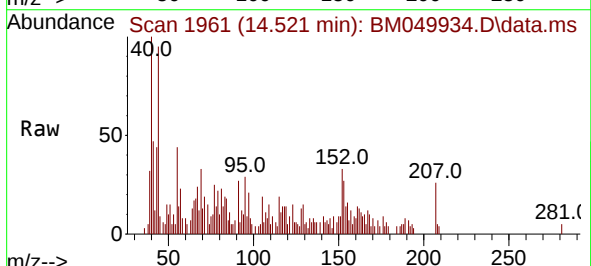
Tgt Ion:184 Resp: 81

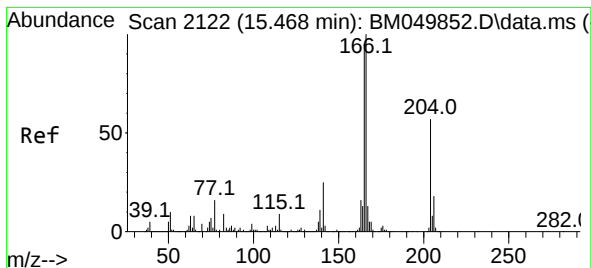
Ion Ratio Lower Upper

184 100

63 165.5 38.4 57.6#

154 318.3 48.1 72.1#





#58

Fluorene

Concen: 3.597 ng

RT: 15.462 min Scan# 2122

Delta R.T. -0.006 min

Lab File: BM049934.D

Acq: 15 Apr 2025 14:35

Instrument :

BNA_M

ClientSampleId :

TP-1

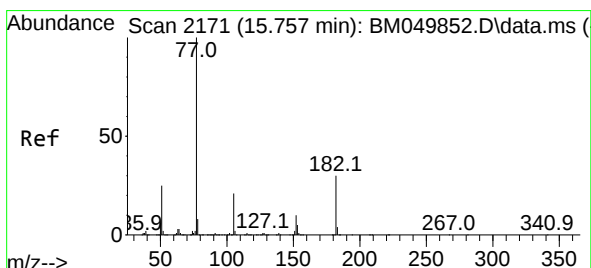
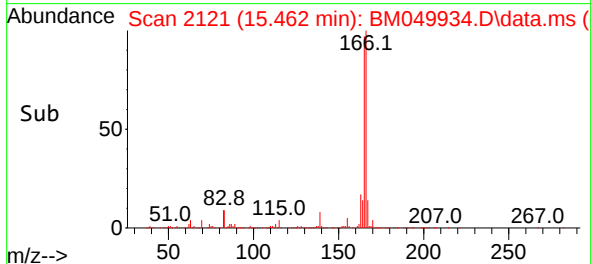
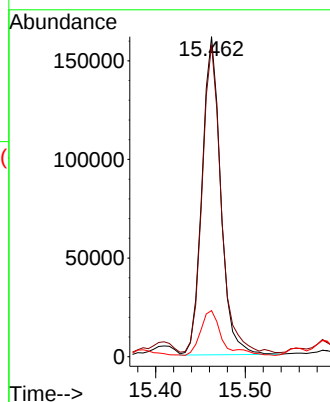
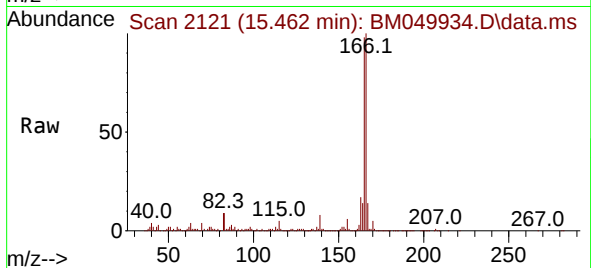
Tgt Ion:166 Resp: 232325

Ion Ratio Lower Upper

166 100

165 97.5 76.3 114.5

167 14.4 10.7 16.1



#63

Azobenzene

Concen: 4.616 ng

RT: 15.768 min Scan# 2173

Delta R.T. 0.012 min

Lab File: BM049934.D

Acq: 15 Apr 2025 14:35

Tgt Ion: 77 Resp: 240038

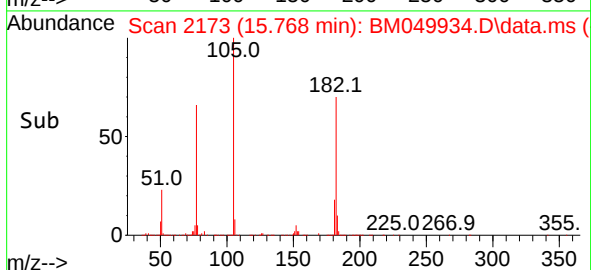
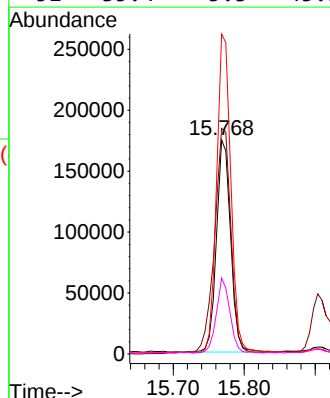
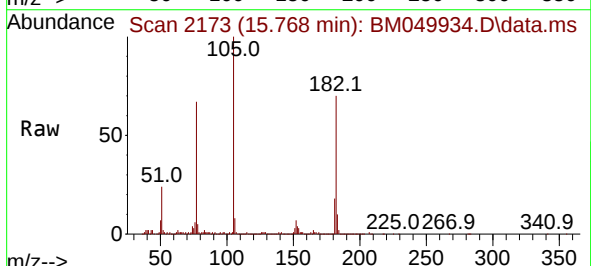
Ion Ratio Lower Upper

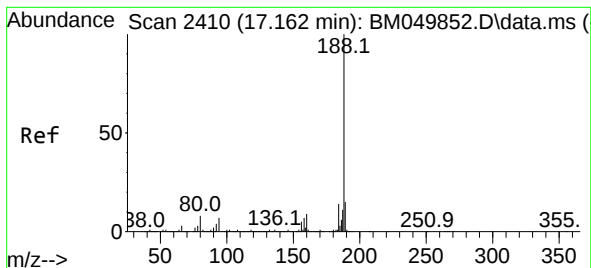
77 100

182 105.3 10.4 50.4#

105 149.5 1.5 41.5#

51 35.4 5.3 45.3





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 17.156 min Scan# 2410

Delta R.T. -0.006 min

Lab File: BM049934.D

Acq: 15 Apr 2025 14:35

Instrument :

BNA_M

ClientSampleId :

TP-1

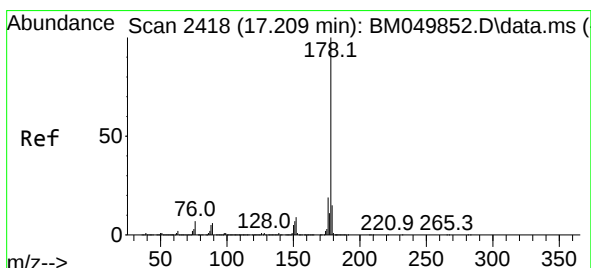
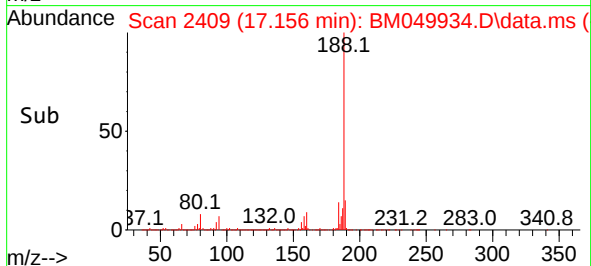
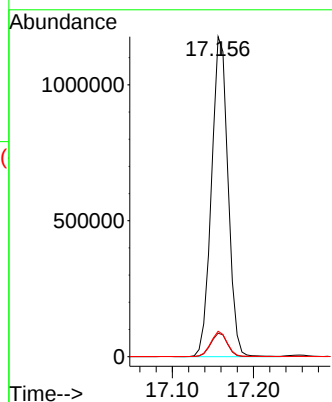
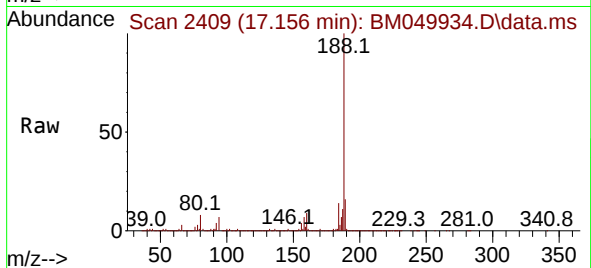
Tgt Ion:188 Resp: 1659775

Ion Ratio Lower Upper

188 100

94 7.4 5.8 8.6

80 8.0 6.4 9.6



#71

Phenanthrene

Concen: 34.101 ng

RT: 17.203 min Scan# 2417

Delta R.T. -0.006 min

Lab File: BM049934.D

Acq: 15 Apr 2025 14:35

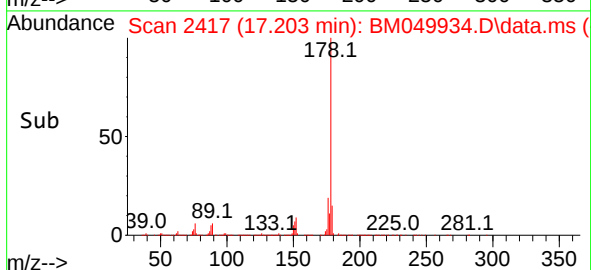
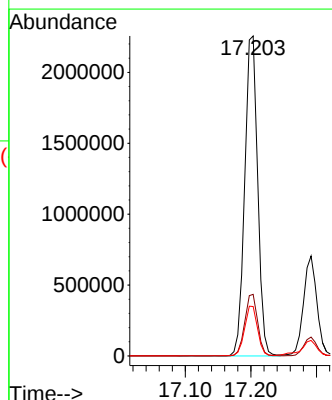
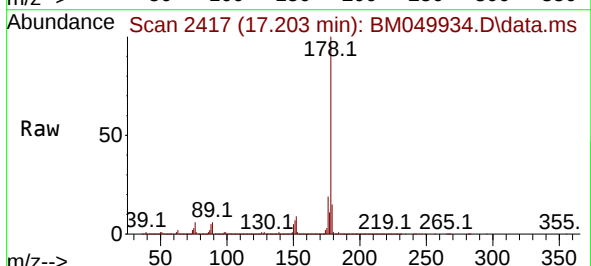
Tgt Ion:178 Resp: 3103045

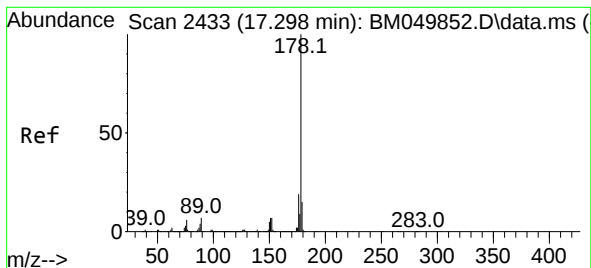
Ion Ratio Lower Upper

178 100

176 19.3 15.4 23.2

179 15.4 12.3 18.5





#72

Anthracene

Concen: 10.787 ng

RT: 17.292 min Scan# 2433

Delta R.T. -0.006 min

Lab File: BM049934.D

Acq: 15 Apr 2025 14:35

Instrument :

BNA_M

ClientSampleId :

TP-1

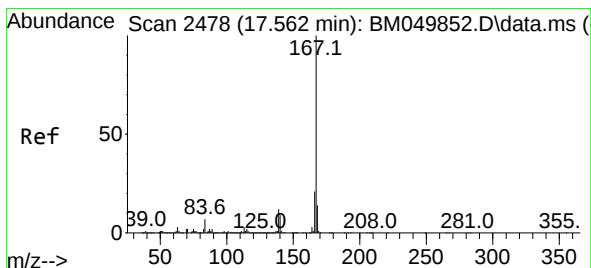
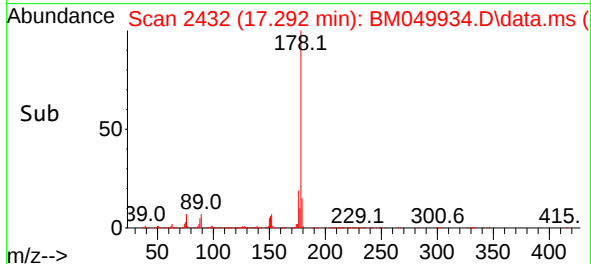
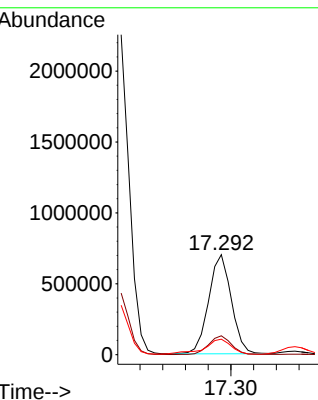
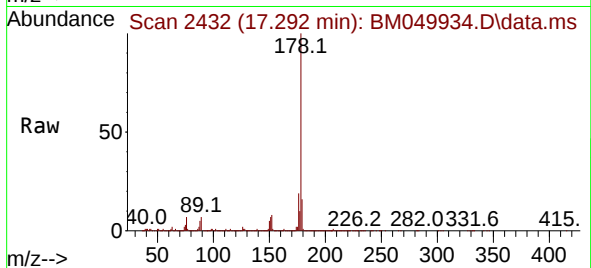
Tgt Ion:178 Resp: 967286

Ion Ratio Lower Upper

178 100

176 18.9 15.1 22.7

179 15.5 12.4 18.6



#73

Carbazole

Concen: 2.925 ng

RT: 17.562 min Scan# 2478

Delta R.T. -0.000 min

Lab File: BM049934.D

Acq: 15 Apr 2025 14:35

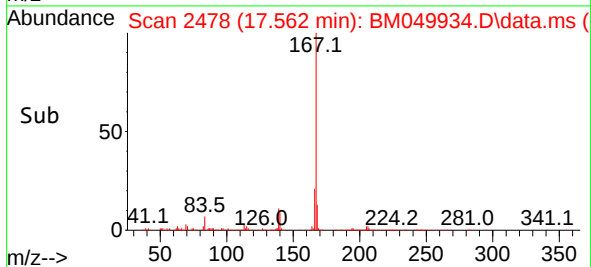
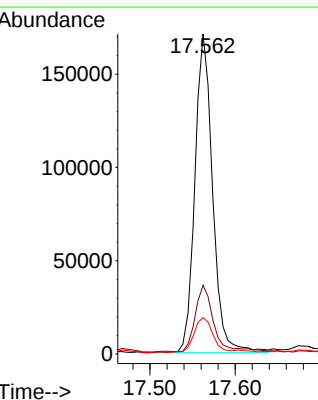
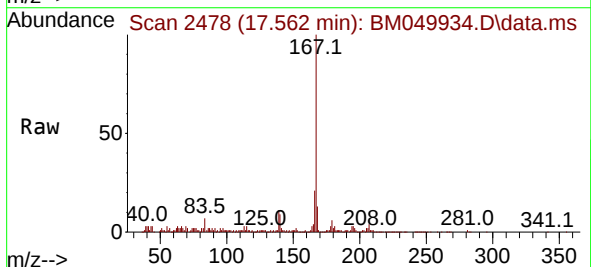
Tgt Ion:167 Resp: 247061

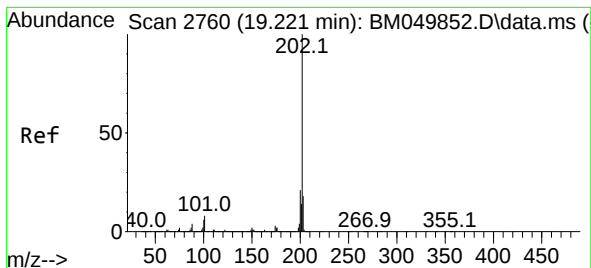
Ion Ratio Lower Upper

167 100

166 21.5 16.9 25.3

139 11.4 9.3 13.9





#75

Fluoranthene

Concen: 60.826 ng

RT: 19.221 min Scan# 21

Delta R.T. -0.000 min

Lab File: BM049934.D

Acq: 15 Apr 2025 14:35

Instrument :

BNA_M

ClientSampleId :

TP-1

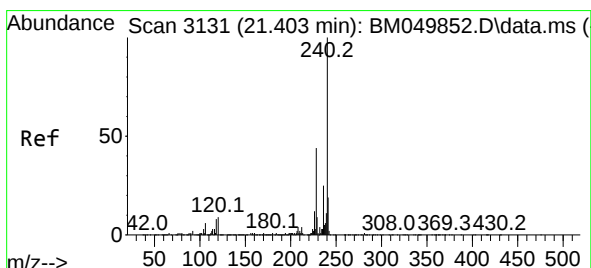
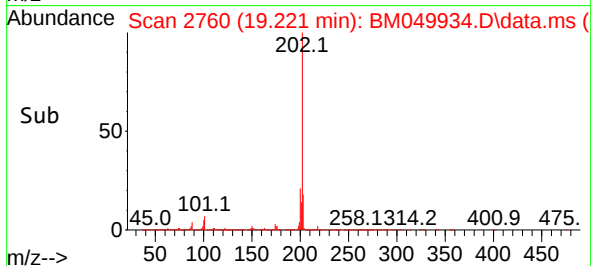
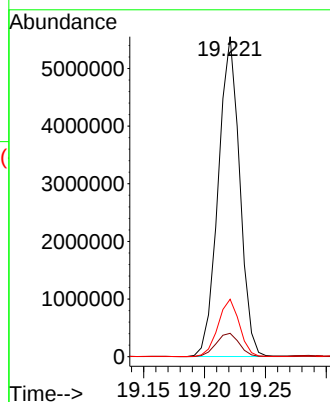
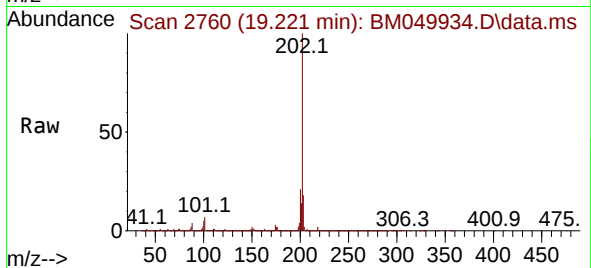
Tgt Ion:202 Resp: 6805391

Ion Ratio Lower Upper

202 100

101 7.3 0.0 28.4

203 18.0 0.0 37.8



#76

Chrysene-d12

Concen: 20.000 ng

RT: 21.403 min Scan# 3131

Delta R.T. -0.000 min

Lab File: BM049934.D

Acq: 15 Apr 2025 14:35

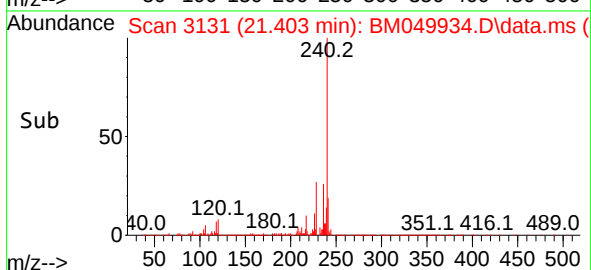
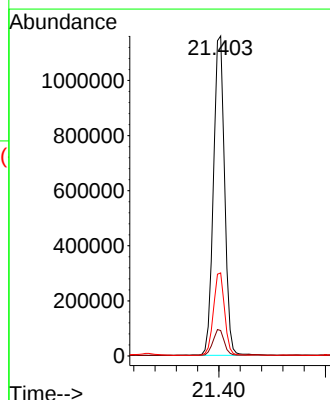
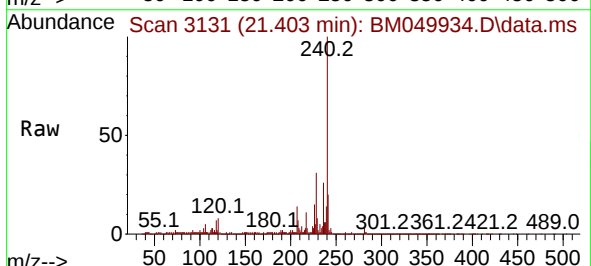
Tgt Ion:240 Resp: 1689044

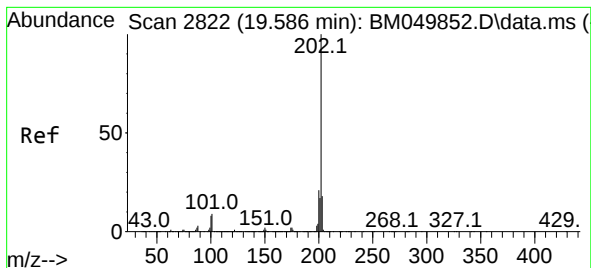
Ion Ratio Lower Upper

240 100

120 8.0 6.9 10.3

236 25.9 20.4 30.6





#78

Pyrene

Concen: 53.768 ng

RT: 19.586 min Scan# 2822

Delta R.T. -0.000 min

Lab File: BM049934.D

Acq: 15 Apr 2025 14:35

Instrument :

BNA_M

ClientSampleId :

TP-1

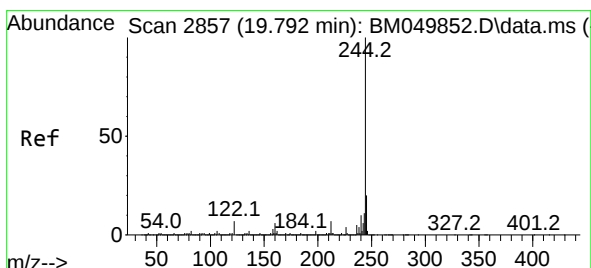
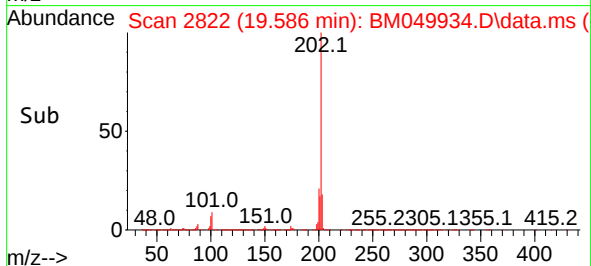
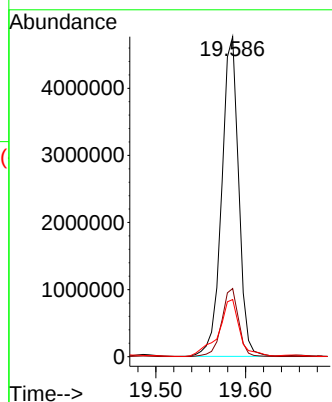
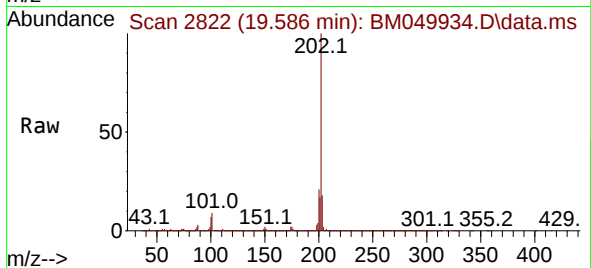
Tgt Ion:202 Resp: 6258940

Ion Ratio Lower Upper

202 100

200 21.3 16.5 24.7

203 17.8 14.0 21.0



#79

Terphenyl-d14

Concen: 49.331 ng

RT: 19.786 min Scan# 2856

Delta R.T. -0.006 min

Lab File: BM049934.D

Acq: 15 Apr 2025 14:35

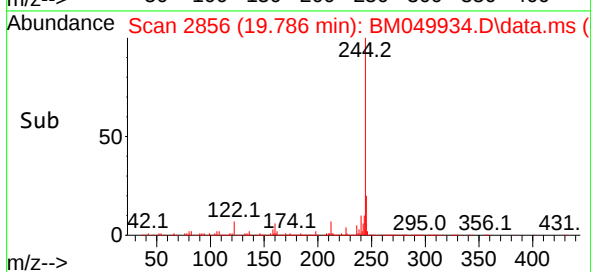
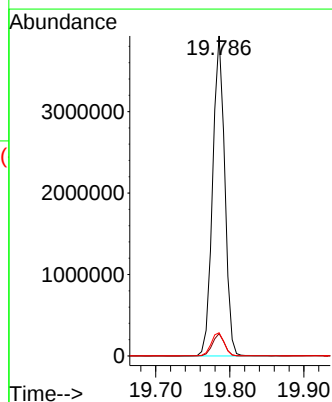
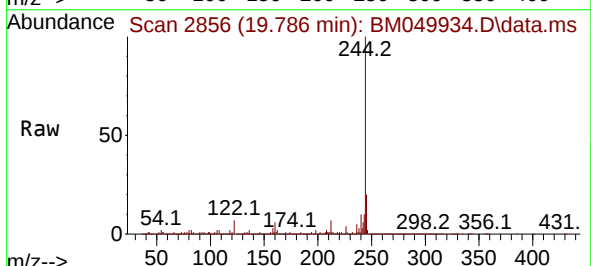
Tgt Ion:244 Resp: 4446142

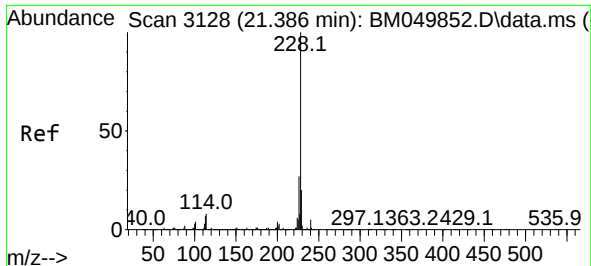
Ion Ratio Lower Upper

244 100

212 7.0 5.5 8.3

122 7.2 5.4 8.0

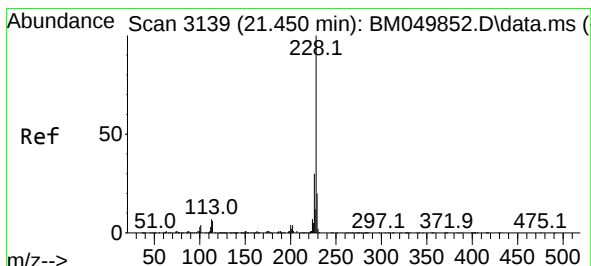
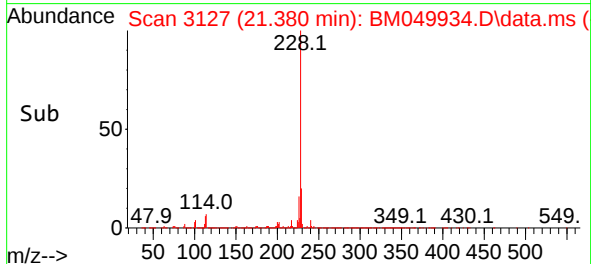
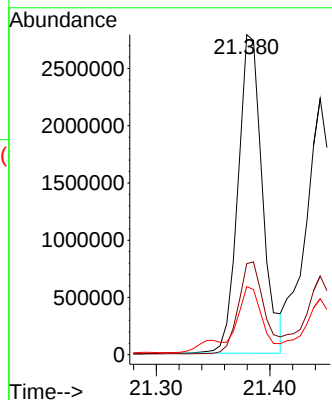
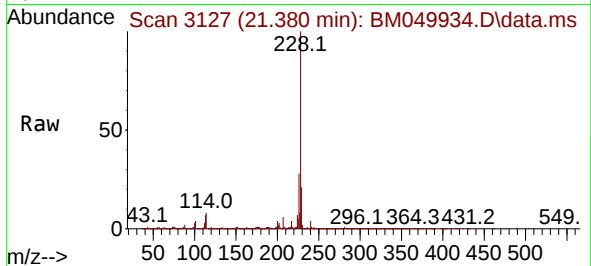




#81
Benzo(a)anthracene
Concen: 36.948 ng
RT: 21.380 min Scan# 3128
Delta R.T. -0.006 min
Lab File: BM049934.D
Acq: 15 Apr 2025 14:35

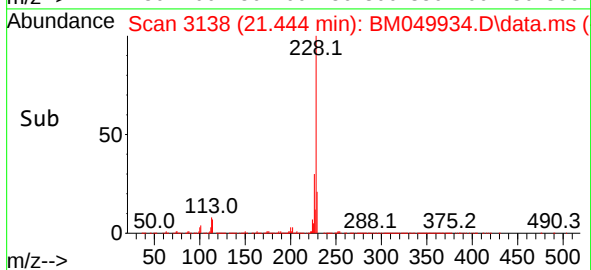
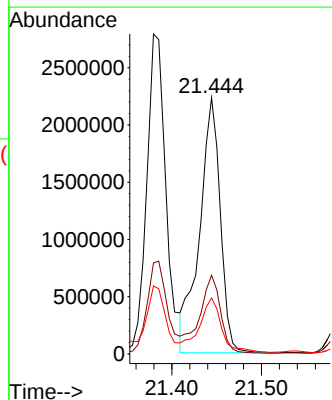
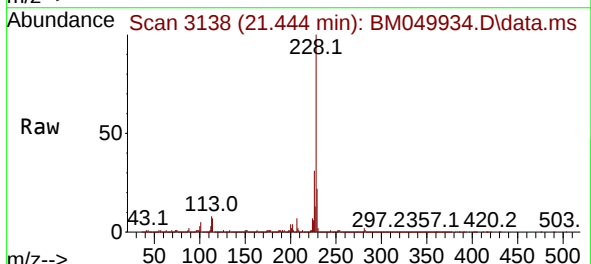
Instrument :
BNA_M
ClientSampleId :
TP-1

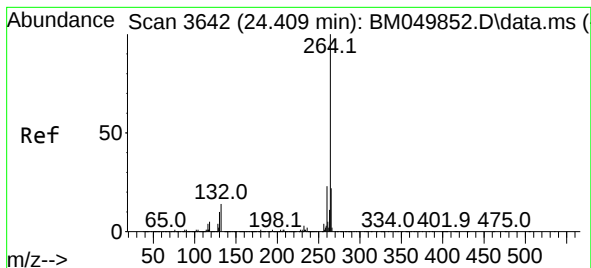
Tgt Ion:228 Resp: 4147532
Ion Ratio Lower Upper
228 100
226 28.4 21.8 32.8
229 21.3 15.8 23.8



#83
Chrysene
Concen: 33.458 ng
RT: 21.444 min Scan# 3138
Delta R.T. -0.006 min
Lab File: BM049934.D
Acq: 15 Apr 2025 14:35

Tgt Ion:228 Resp: 3570674
Ion Ratio Lower Upper
228 100
226 30.7 24.1 36.1
229 21.9 15.8 23.6





#86

Perylene-d12

Concen: 20.000 ng

RT: 24.403 min Scan# 3

Delta R.T. -0.006 min

Lab File: BM049934.D

Acq: 15 Apr 2025 14:35

Instrument :

BNA_M

ClientSampleId :

TP-1

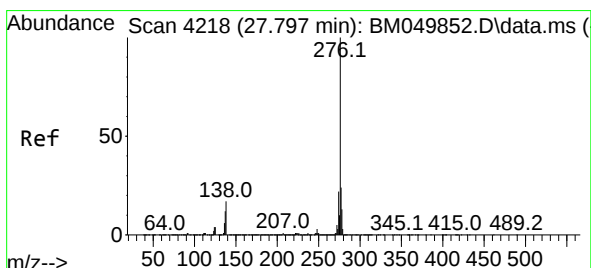
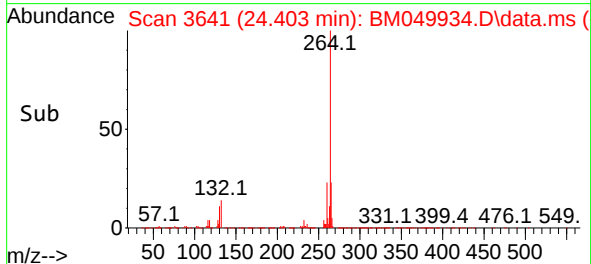
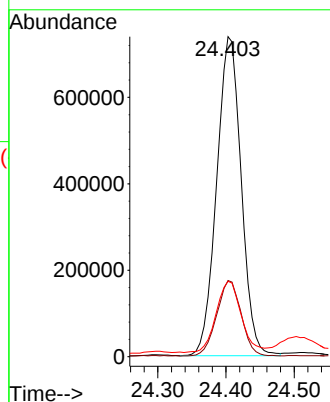
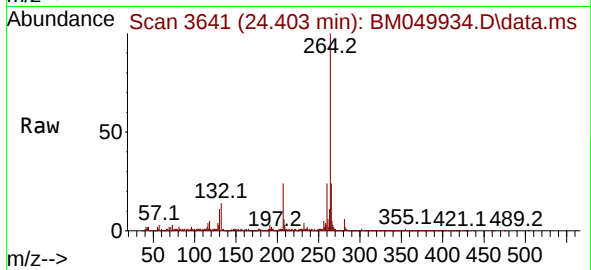
Tgt Ion:264 Resp: 1851252

Ion Ratio Lower Upper

264 100

260 23.8 18.6 28.0

265 23.6 17.8 26.8



#87

Indeno(1,2,3-cd)pyrene

Concen: 20.981 ng

RT: 27.797 min Scan# 4218

Delta R.T. -0.000 min

Lab File: BM049934.D

Acq: 15 Apr 2025 14:35

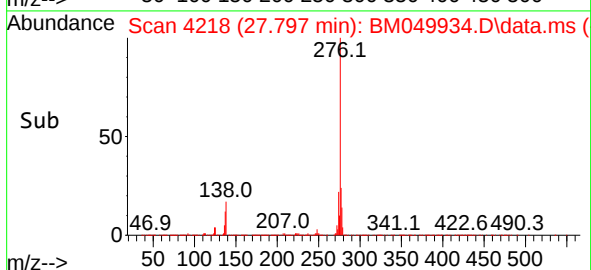
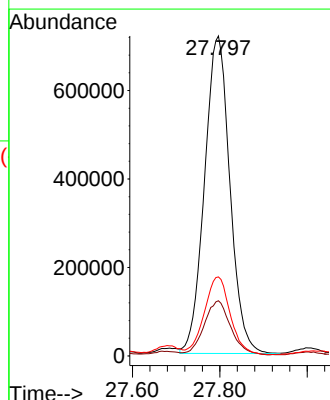
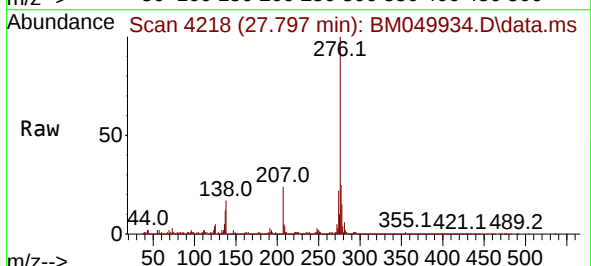
Tgt Ion:276 Resp: 2895328

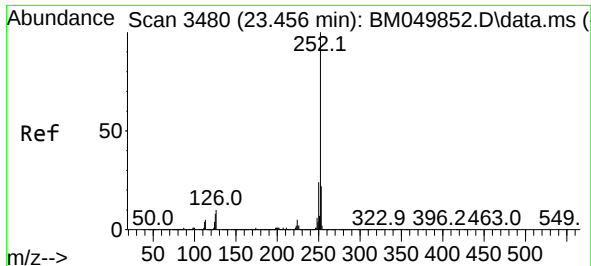
Ion Ratio Lower Upper

276 100

138 17.8 16.8 25.2

277 24.9 20.1 30.1

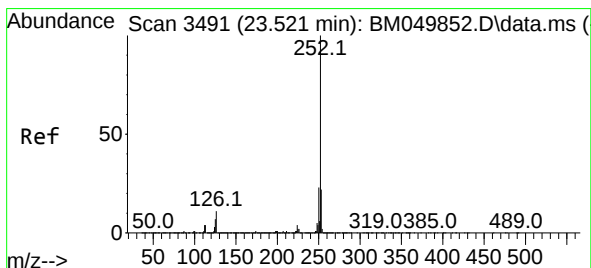
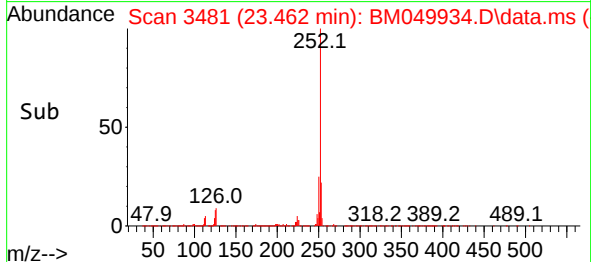
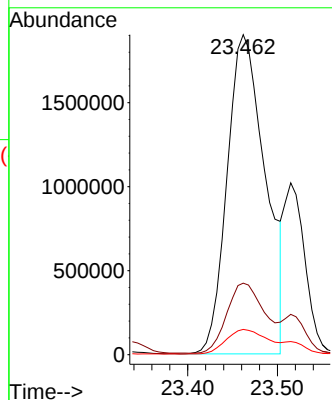
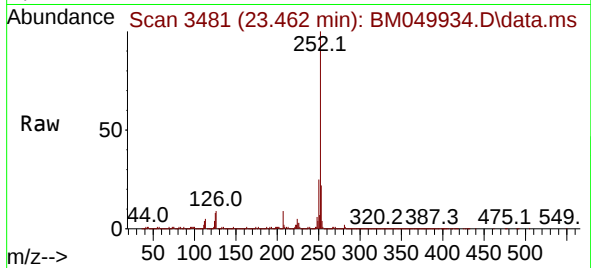




#88
Benzo(b)fluoranthene
Concen: 47.626 ng
RT: 23.462 min Scan# 34
Delta R.T. 0.006 min
Lab File: BM049934.D
Acq: 15 Apr 2025 14:35

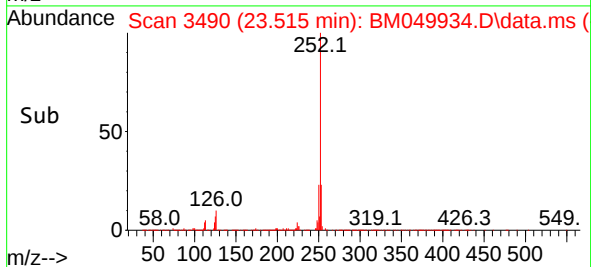
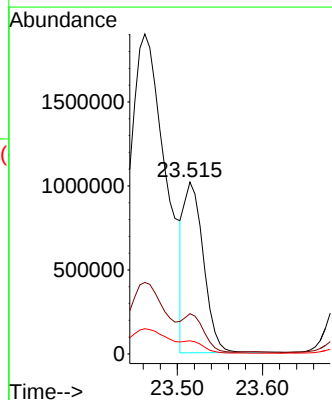
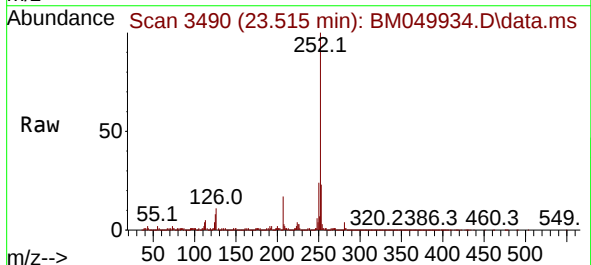
Instrument :
BNA_M
ClientSampleId :
TP-1

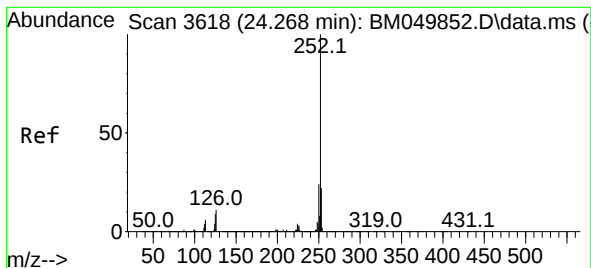
Tgt Ion:252 Resp: 5630945
Ion Ratio Lower Upper
252 100
253 22.4 17.5 26.3
125 7.9 6.2 9.4



#89
Benzo(k)fluoranthene
Concen: 14.129 ng
RT: 23.515 min Scan# 3490
Delta R.T. -0.006 min
Lab File: BM049934.D
Acq: 15 Apr 2025 14:35

Tgt Ion:252 Resp: 1618819
Ion Ratio Lower Upper
252 100
253 23.5 17.4 26.2
125 7.6 5.8 8.8





#90

Benzo(a)pyrene

Concen: 41.102 ng

RT: 24.262 min Scan# 3

Delta R.T. -0.006 min

Lab File: BM049934.D

Acq: 15 Apr 2025 14:35

Instrument :

BNA_M

ClientSampleId :

TP-1

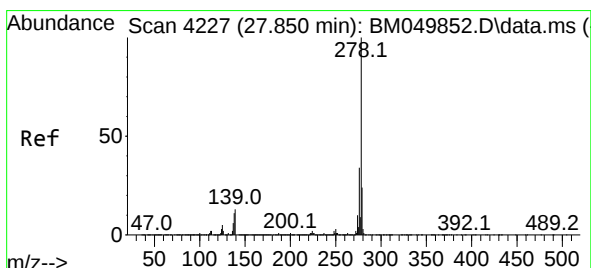
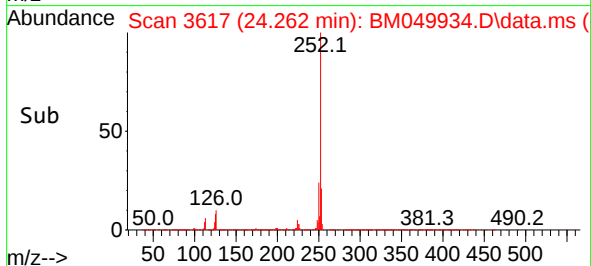
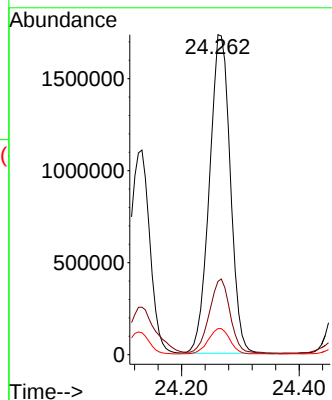
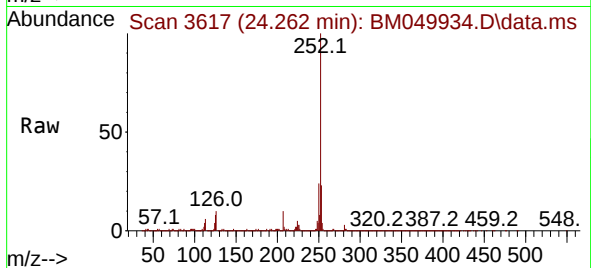
Tgt Ion:252 Resp: 4270302

Ion Ratio Lower Upper

252 100

253 22.9 17.8 26.8

125 8.2 7.0 10.4



#91

Dibenzo(a,h)anthracene

Concen: 6.601 ng

RT: 27.826 min Scan# 4223

Delta R.T. -0.024 min

Lab File: BM049934.D

Acq: 15 Apr 2025 14:35

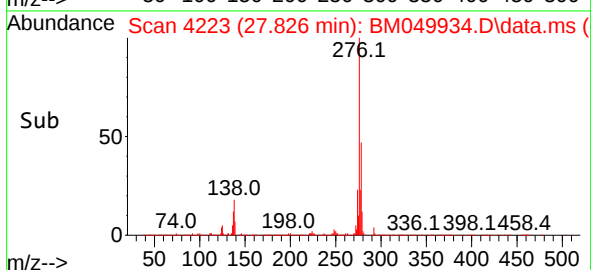
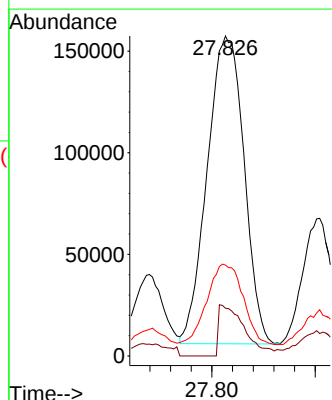
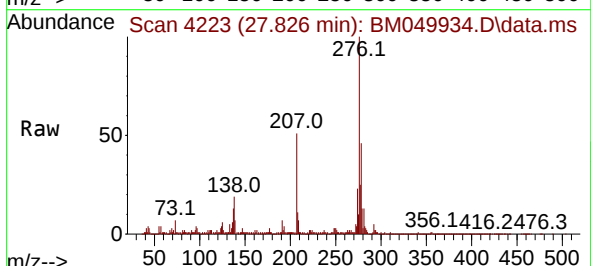
Tgt Ion:278 Resp: 750329

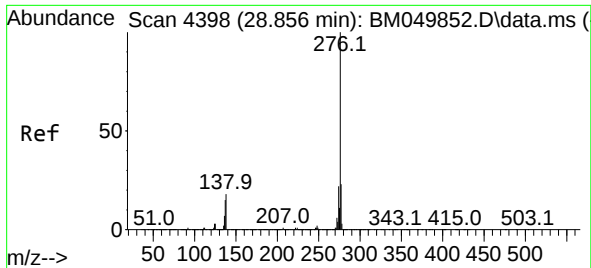
Ion Ratio Lower Upper

278 100

139 14.9 10.6 15.8

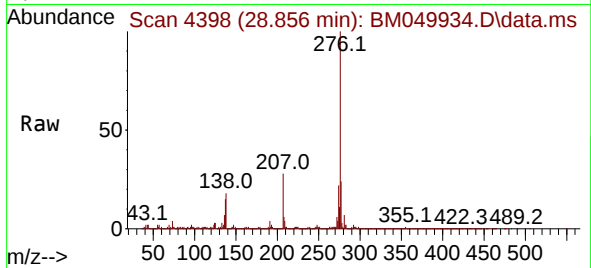
279 28.4 19.1 28.7





#92
 Benzo(g,h,i)perylene
 Concen: 24.100 ng
 RT: 28.856 min Scan# 41
 Delta R.T. -0.000 min
 Lab File: BM049934.D
 Acq: 15 Apr 2025 14:35

Instrument :
 BNA_M
 ClientSampleId :
 TP-1



Tgt Ion: 276 Resp: 2799189

Ion	Ratio	Lower	Upper
276	100		
277	23.5	18.7	28.1
138	17.9	14.6	21.8

