

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM040925\
 Data File : BM049870.D
 Acq On : 09 Apr 2025 16:24
 Operator : RC/JU
 Sample : Q1712-01DL 10X
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 Z-05ADL

Quant Time: Apr 09 17:40:43 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)

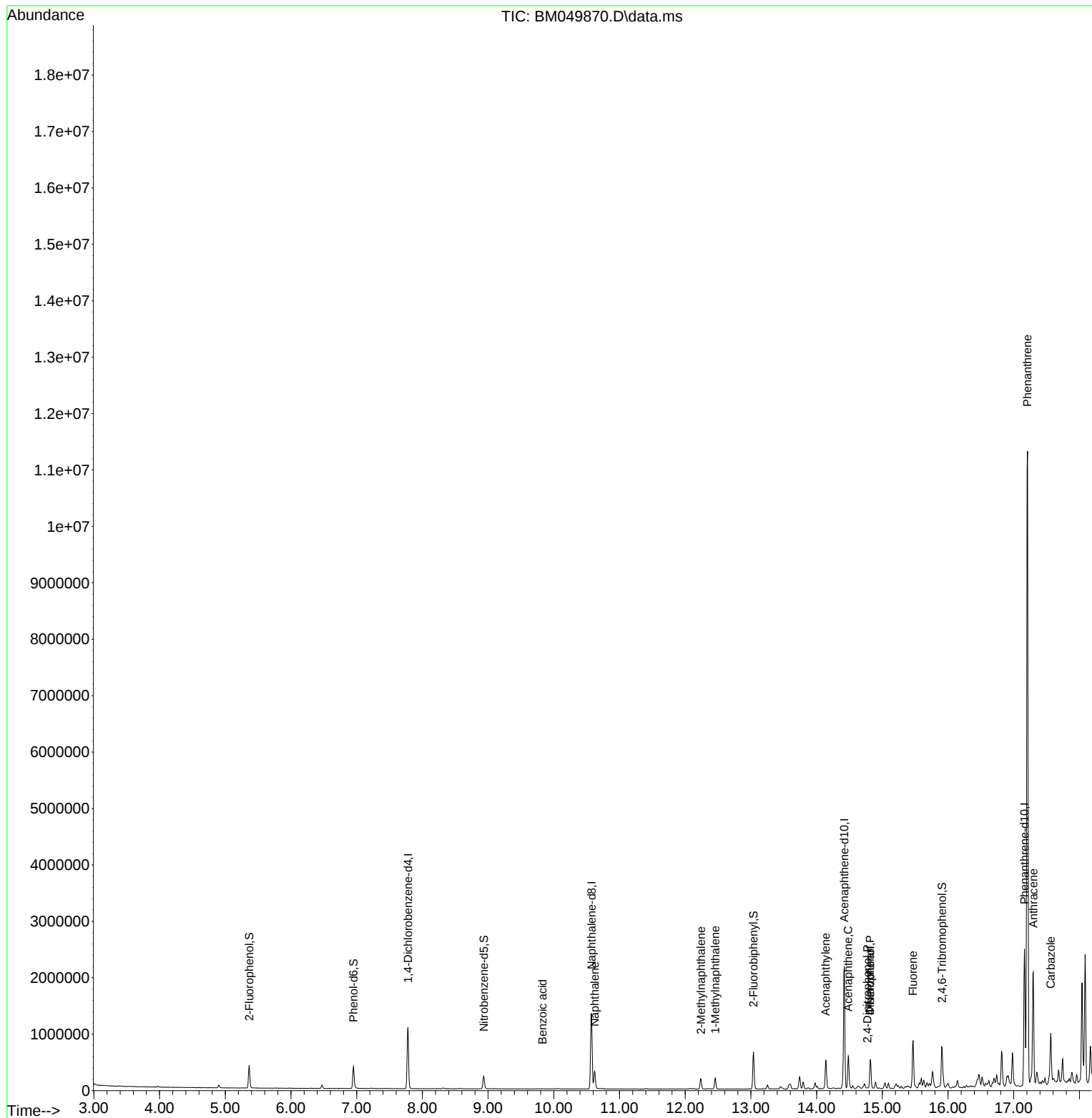
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.781	152	319647	20.000	ng	0.00
21) Naphthalene-d8	10.574	136	1174162	20.000	ng	0.00
39) Acenaphthene-d10	14.421	164	771024	20.000	ng	0.00
64) Phenanthrene-d10	17.162	188	1470730	20.000	ng	0.00
76) Chrysene-d12	21.403	240	1481399	20.000	ng	0.00
86) Perylene-d12	24.397	264	1536362	20.000	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.363	112	182732	9.707	ng	0.00
7) Phenol-d6	6.951	99	234338	10.006	ng	0.00
23) Nitrobenzene-d5	8.933	82	134827	6.394	ng	0.00
42) 2,4,6-Tribromophenol	15.909	330	98896	8.818	ng	0.00
45) 2-Fluorobiphenyl	13.039	172	351158	6.176	ng	0.00
79) Terphenyl-d14	19.786	244	443907	5.616	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	10.622	128	255288	4.231	ng	100
32) Benzoic acid	9.827	122	345	8.557	ng	# 46
37) 2-Methylnaphthalene	12.239	142	93963	2.210	ng	97
38) 1-Methylnaphthalene	12.457	142	92074	2.223	ng	99
49) Acenaphthylene	14.139	152	359348	5.476	ng	99
52) Acenaphthene	14.480	154	207815	4.979	ng	98
54) 2,4-Dinitrophenol	14.774	184	55	7.231	ng	# 1
55) Dibenzofuran	14.815	168	299796	4.296	ng	98
56) 4-Nitrophenol	14.815	139	101137	10.304	ng	# 14
58) Fluorene	15.468	166	379162	6.836	ng	98
71) Phenanthrene	17.209	178	7160827	88.810	ng	99
72) Anthracene	17.298	178	1324876	16.673	ng	99
73) Carbazole	17.562	167	562779	7.520	ng	99
75) Fluoranthene	19.227	202	9521469	96.041	ng	98
78) Pyrene	19.586	202	8488286	83.141	ng	98
81) Benzo(a)anthracene	21.386	228	4257112	43.240	ng	98
83) Chrysene	21.444	228	3885065	41.507	ng	98
87) Indeno(1,2,3-cd)pyrene	27.785	276	1915591	16.727	ng	97
88) Benzo(b)fluoranthene	23.462	252	4486320	45.722	ng	100
89) Benzo(k)fluoranthene	23.462	252	4486320	47.181	ng	99
90) Benzo(a)pyrene	24.262	252	3043879	35.303	ng	99
91) Dibenzo(a,h)anthracene	27.820	278	534287	5.664	ng	96
92) Benzo(g,h,i)perylene	28.838	276	1822891	18.911	ng	99

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

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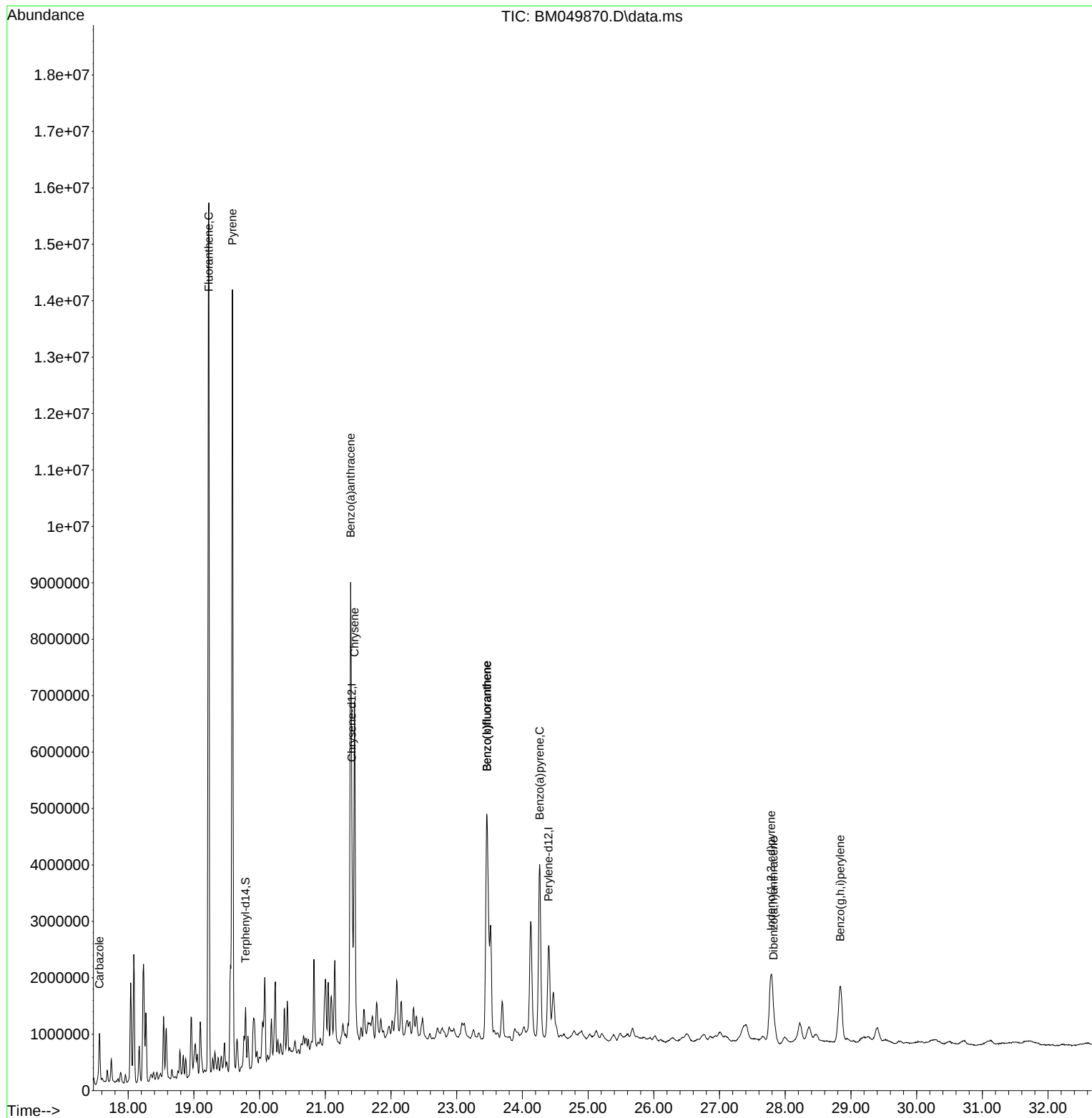
Quant Time: Apr 09 17:40:43 2025
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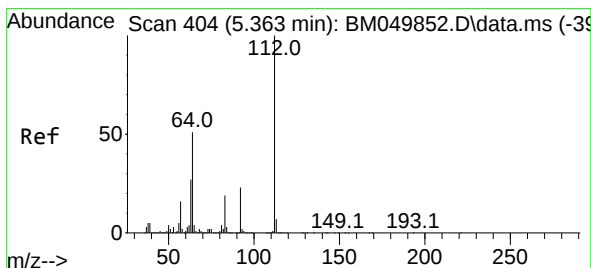
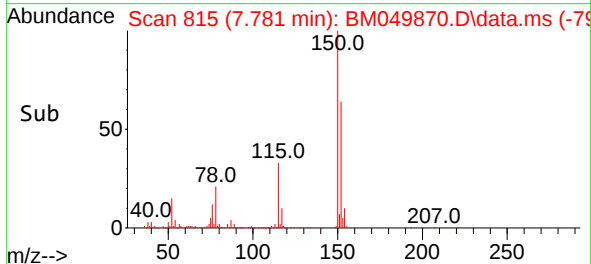
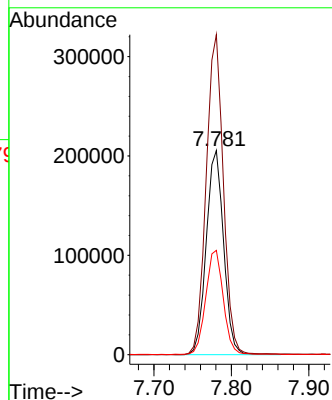
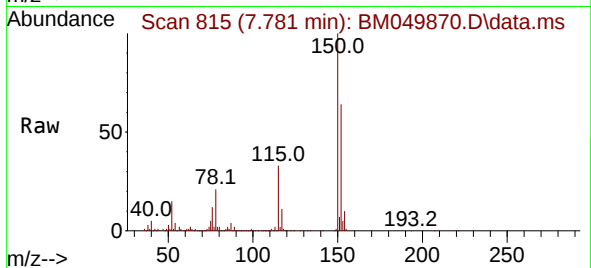




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.781 min Scan# 815
Delta R.T. -0.000 min
Lab File: BM049870.D
Acq: 09 Apr 2025 16:24

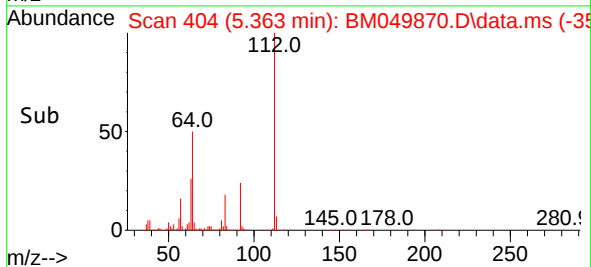
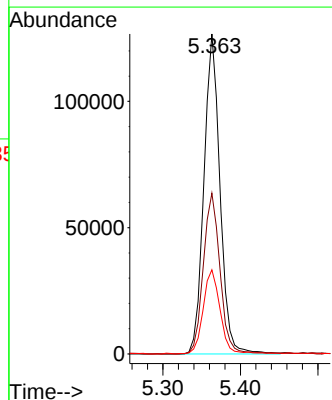
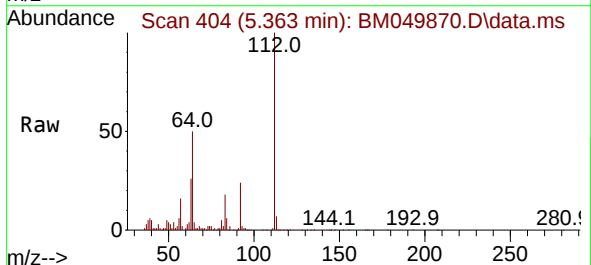
Instrument :
BNA_M
ClientSampleId :
Z-05ADL

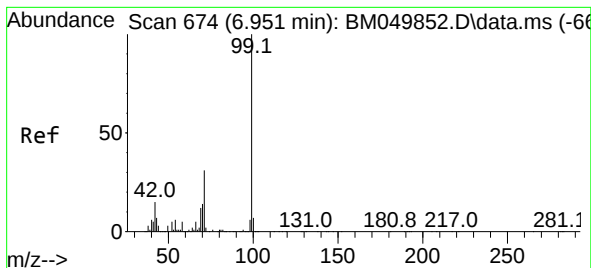
Tgt Ion:152 Resp: 319647
Ion Ratio Lower Upper
152 100
150 156.8 124.3 186.5
115 51.1 41.1 61.7



#5
2-Fluorophenol
Concen: 9.707 ng
RT: 5.363 min Scan# 404
Delta R.T. -0.000 min
Lab File: BM049870.D
Acq: 09 Apr 2025 16:24

Tgt Ion:112 Resp: 182732
Ion Ratio Lower Upper
112 100
64 50.2 41.0 61.6
63 26.3 21.5 32.3





#7

Phenol-d6

Concen: 10.006 ng

RT: 6.951 min Scan# 61

Delta R.T. -0.000 min

Lab File: BM049870.D

Acq: 09 Apr 2025 16:24

Instrument :

BNA_M

ClientSampleId :

Z-05ADL

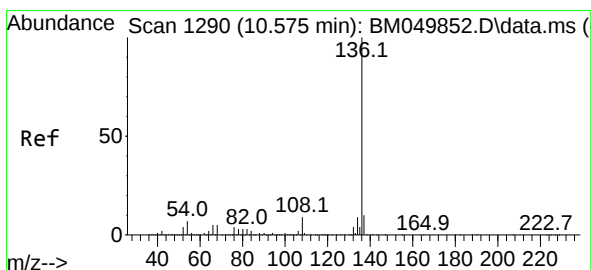
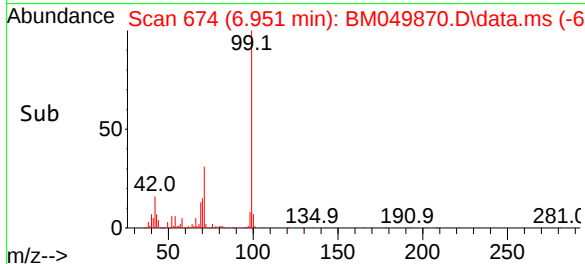
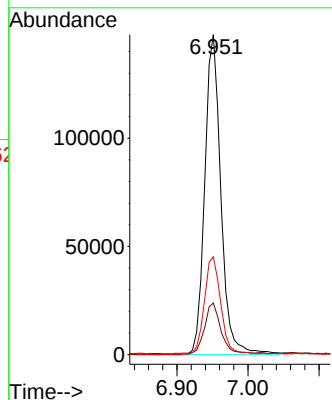
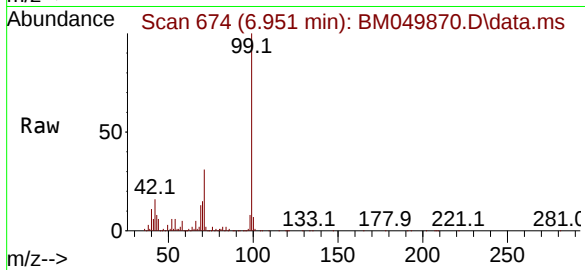
Tgt Ion: 99 Resp: 234338

Ion Ratio Lower Upper

99 100

42 16.1 12.1 18.1

71 30.6 24.9 37.3



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 10.574 min Scan# 1290

Delta R.T. -0.000 min

Lab File: BM049870.D

Acq: 09 Apr 2025 16:24

Tgt Ion:136 Resp: 1174162

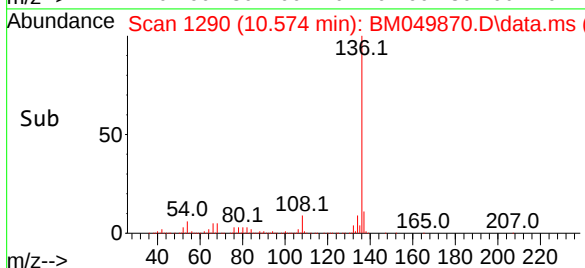
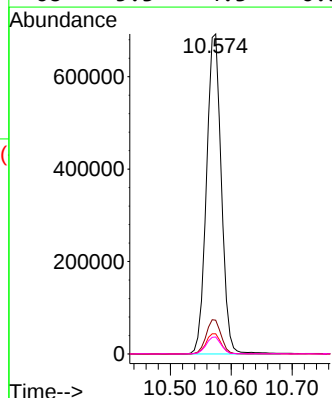
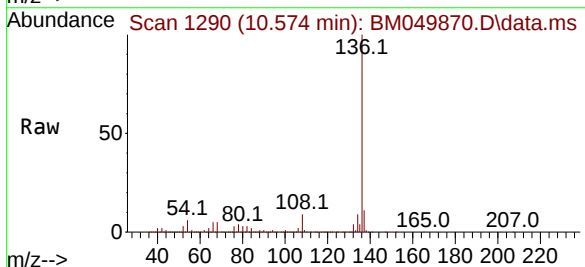
Ion Ratio Lower Upper

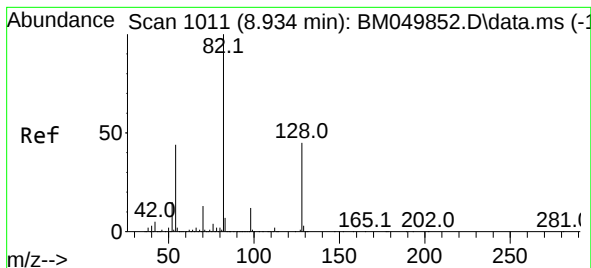
136 100

137 10.6 8.4 12.6

54 6.3 5.3 7.9

68 5.3 4.3 6.5





#23

Nitrobenzene-d5

Concen: 6.394 ng

RT: 8.933 min Scan# 1011

Delta R.T. -0.000 min

Lab File: BM049870.D

Acq: 09 Apr 2025 16:24

Instrument :

BNA_M

ClientSampleId :

Z-05ADL

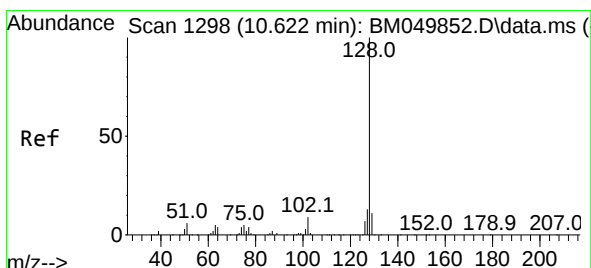
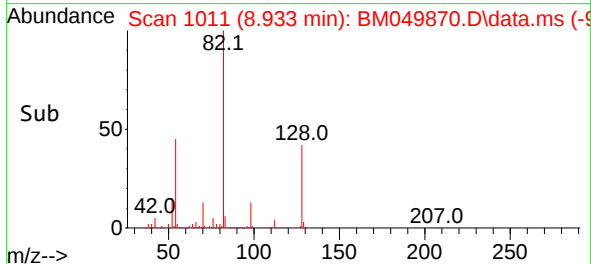
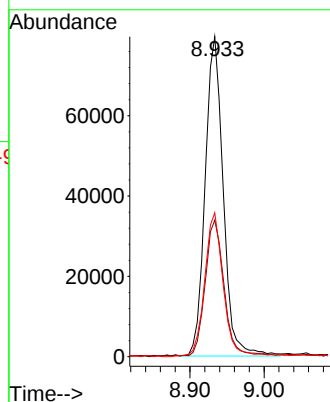
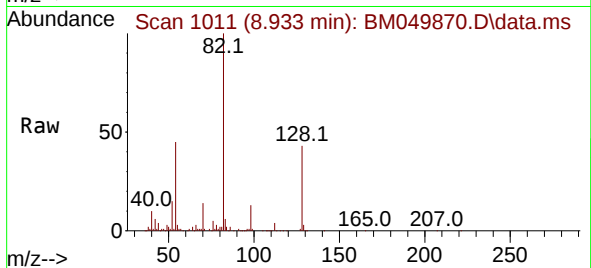
Tgt Ion: 82 Resp: 134827

Ion Ratio Lower Upper

82 100

128 42.6 36.2 54.2

54 44.9 35.0 52.6



#31

Naphthalene

Concen: 4.231 ng

RT: 10.622 min Scan# 1298

Delta R.T. -0.000 min

Lab File: BM049870.D

Acq: 09 Apr 2025 16:24

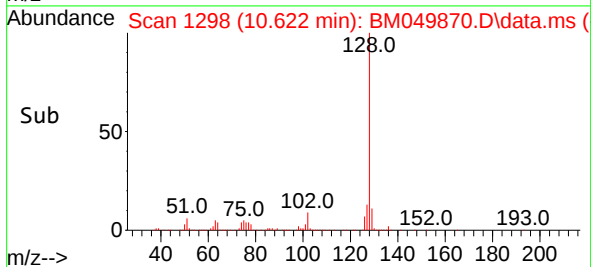
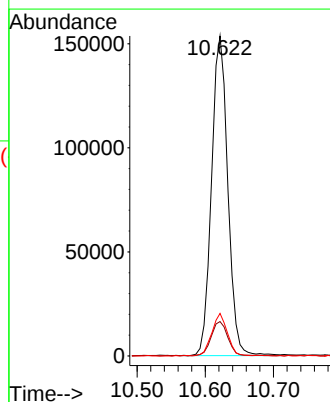
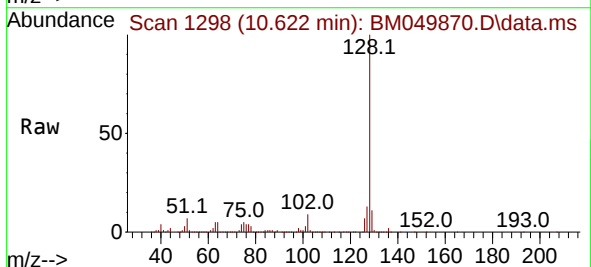
Tgt Ion: 128 Resp: 255288

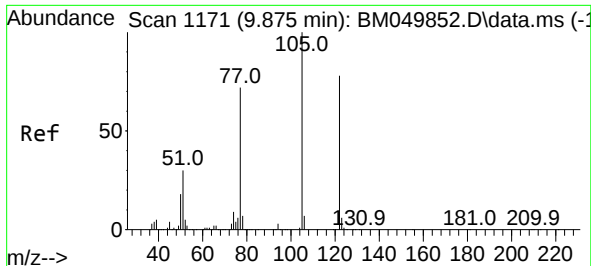
Ion Ratio Lower Upper

128 100

129 10.8 8.8 13.2

127 13.3 10.6 15.8





#32

Benzoic acid

Concen: 8.557 ng

RT: 9.827 min Scan# 1163

Delta R.T. -0.048 min

Lab File: BM049870.D

Acq: 09 Apr 2025 16:24

Instrument :

BNL_M

ClientSampleId :

Z-05ADL

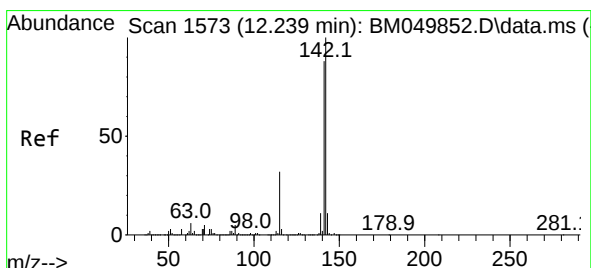
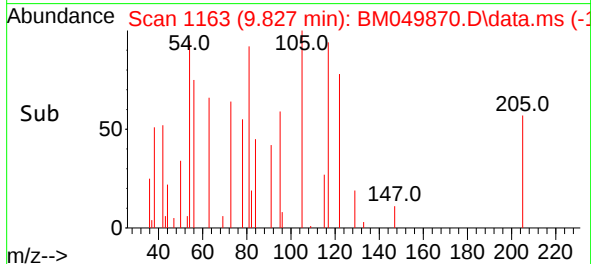
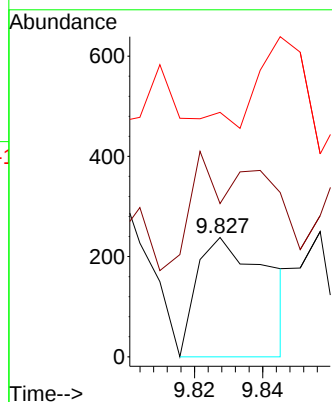
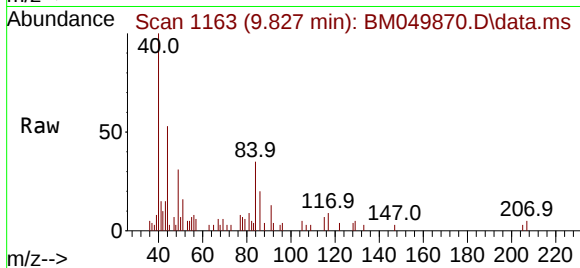
Tgt Ion:122 Resp: 345

Ion Ratio Lower Upper

122 100

105 128.6 103.8 143.8

77 205.0 70.7 110.7#



#37

2-Methylnaphthalene

Concen: 2.210 ng

RT: 12.239 min Scan# 1573

Delta R.T. -0.000 min

Lab File: BM049870.D

Acq: 09 Apr 2025 16:24

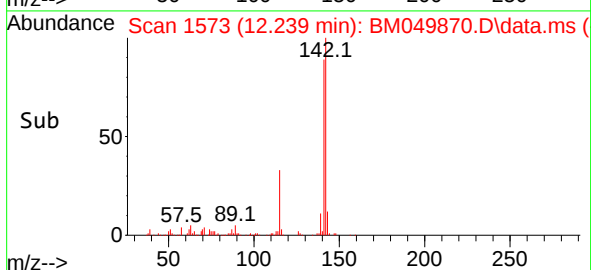
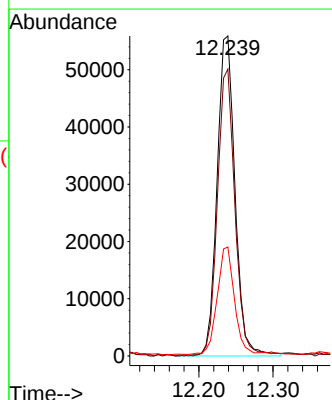
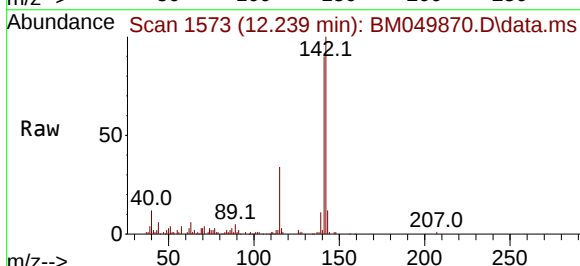
Tgt Ion:142 Resp: 93963

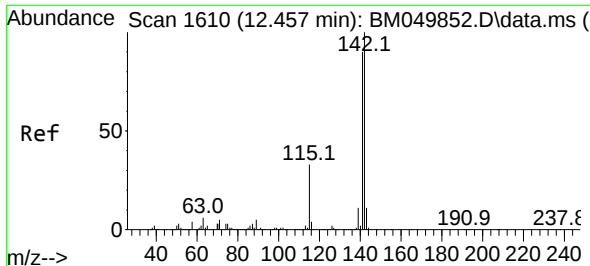
Ion Ratio Lower Upper

142 100

141 89.6 70.2 105.2

115 34.0 25.4 38.2

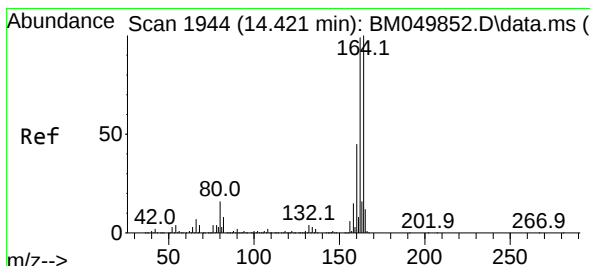
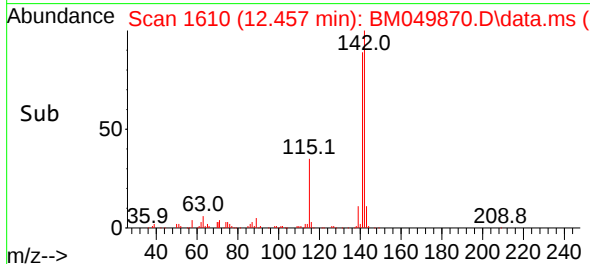
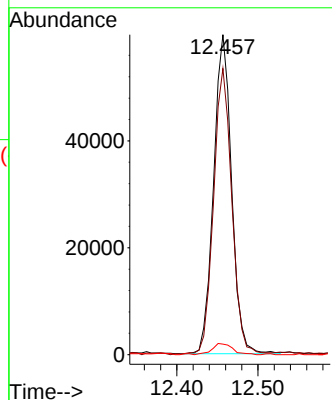
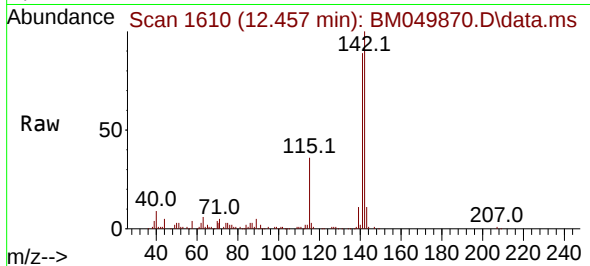




#38
1-Methylnaphthalene
Concen: 2.223 ng
RT: 12.457 min Scan# 1
Delta R.T. -0.000 min
Lab File: BM049870.D
Acq: 09 Apr 2025 16:24

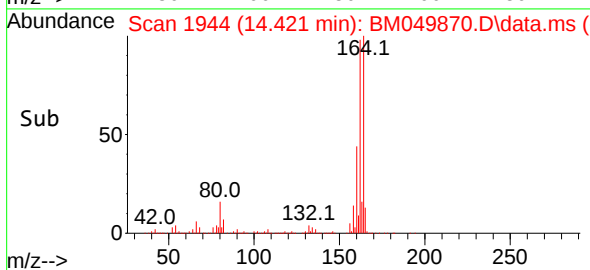
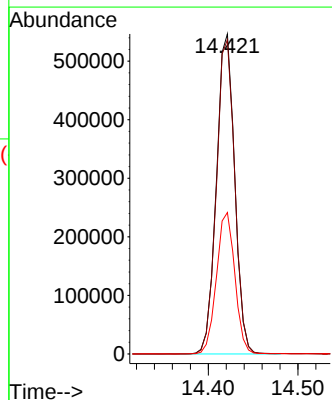
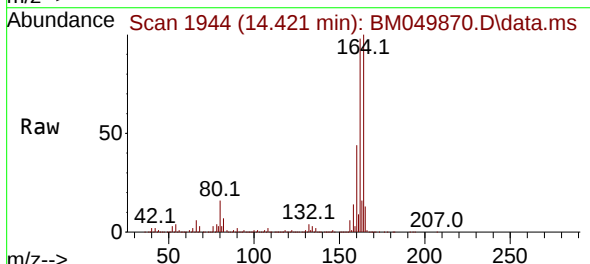
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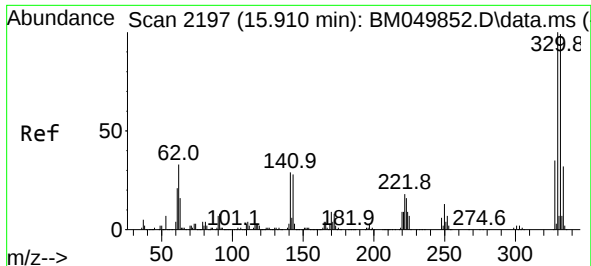
Tgt Ion:142 Resp: 92074
Ion Ratio Lower Upper
142 100
141 89.4 72.2 108.2
116 3.3 2.9 4.3



#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.421 min Scan# 1944
Delta R.T. -0.000 min
Lab File: BM049870.D
Acq: 09 Apr 2025 16:24

Tgt Ion:164 Resp: 771024
Ion Ratio Lower Upper
164 100
162 98.2 79.4 119.0
160 44.2 36.2 54.2

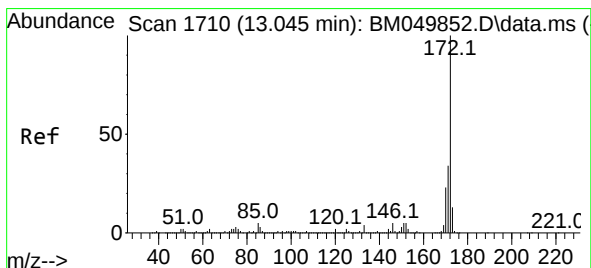
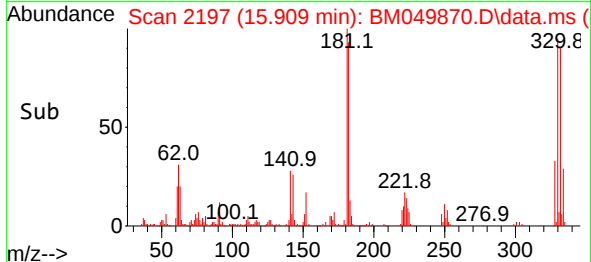
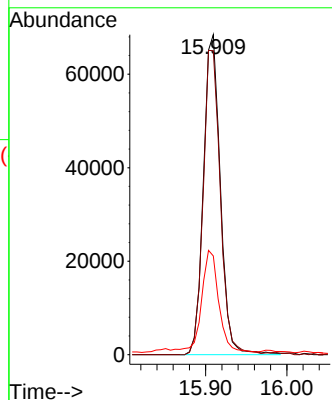
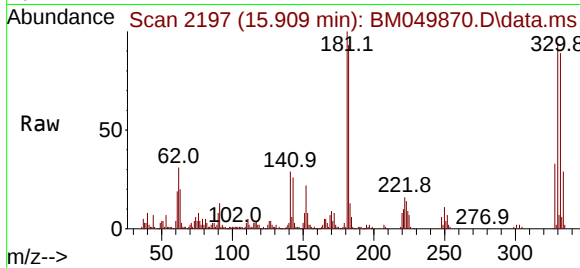




#42
 2,4,6-Tribromophenol
 Concen: 8.818 ng
 RT: 15.909 min Scan# 2197
 Delta R.T. -0.000 min
 Lab File: BM049870.D
 Acq: 09 Apr 2025 16:24

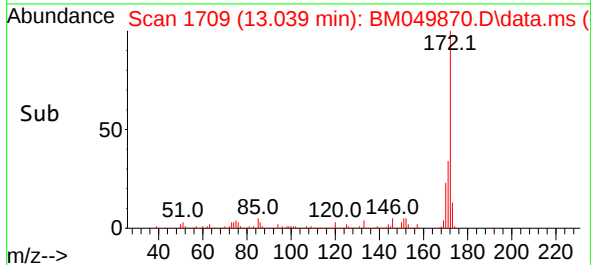
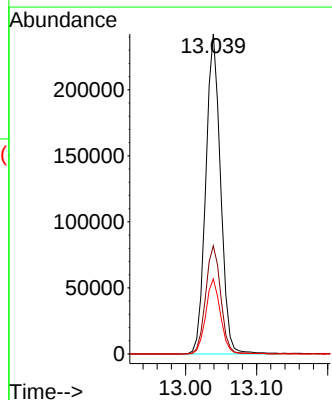
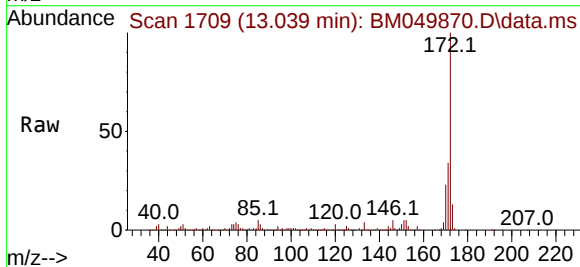
Instrument :
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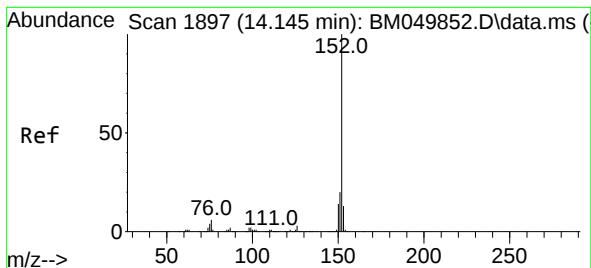
Tgt Ion:330 Resp: 98896
 Ion Ratio Lower Upper
 330 100
 332 96.4 78.0 117.0
 141 32.4 23.5 35.3



#45
 2-Fluorobiphenyl
 Concen: 6.176 ng
 RT: 13.039 min Scan# 1709
 Delta R.T. -0.006 min
 Lab File: BM049870.D
 Acq: 09 Apr 2025 16:24

Tgt Ion:172 Resp: 351158
 Ion Ratio Lower Upper
 172 100
 171 33.8 27.4 41.2
 170 23.4 18.6 28.0





#49

Acenaphthylene

Concen: 5.476 ng

RT: 14.139 min Scan# 1896

Delta R.T. -0.006 min

Lab File: BM049870.D

Acq: 09 Apr 2025 16:24

Instrument :

BNA_M

ClientSampleId :

Z-05ADL

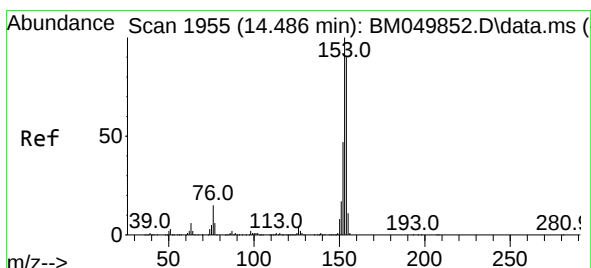
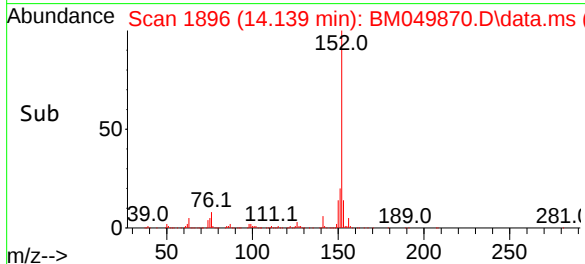
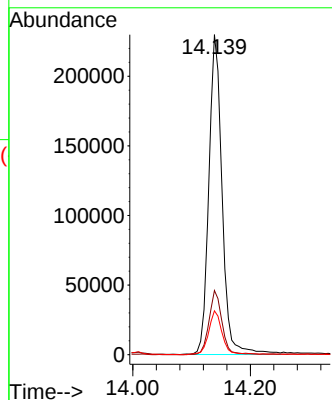
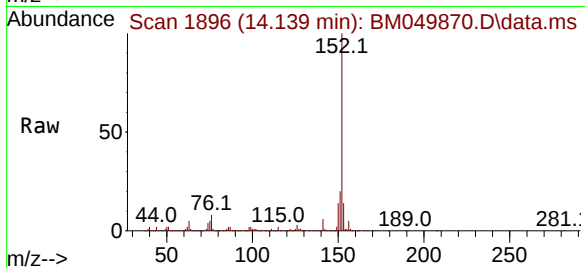
Tgt Ion:152 Resp: 359348

Ion Ratio Lower Upper

152 100

151 20.1 15.7 23.5

153 13.7 10.4 15.6



#52

Acenaphthene

Concen: 4.979 ng

RT: 14.480 min Scan# 1954

Delta R.T. -0.006 min

Lab File: BM049870.D

Acq: 09 Apr 2025 16:24

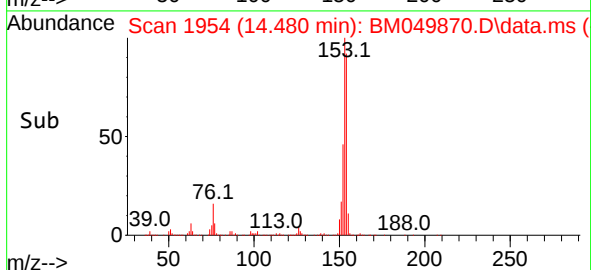
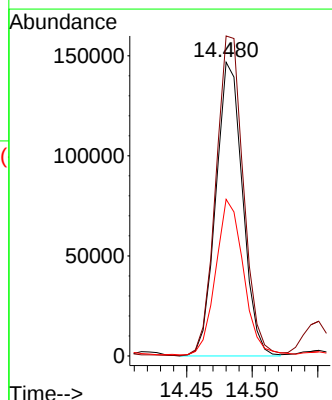
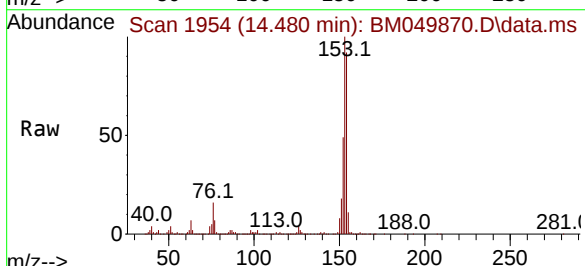
Tgt Ion:154 Resp: 207815

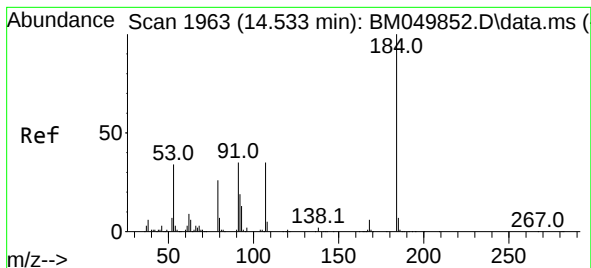
Ion Ratio Lower Upper

154 100

153 108.9 89.3 133.9

152 53.3 42.2 63.2

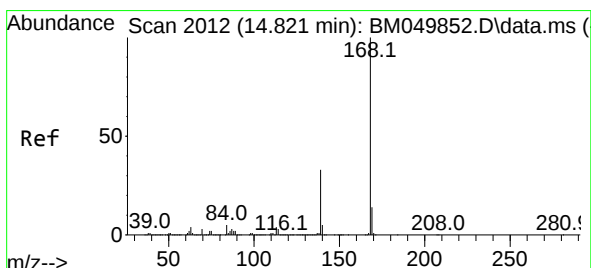
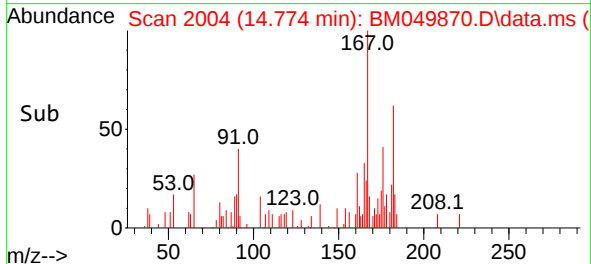
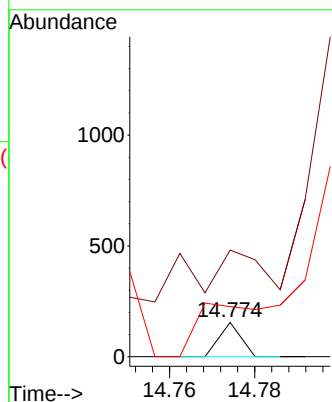
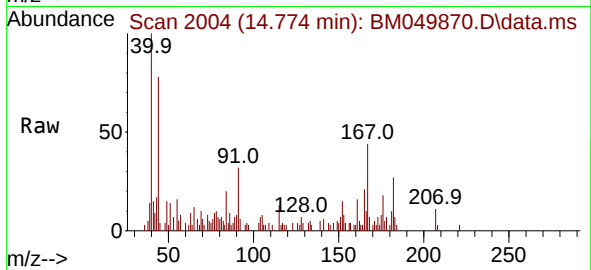




#54
2,4-Dinitrophenol
Concen: 7.231 ng
RT: 14.774 min Scan# 2011
Delta R.T. 0.241 min
Lab File: BM049870.D
Acq: 09 Apr 2025 16:24

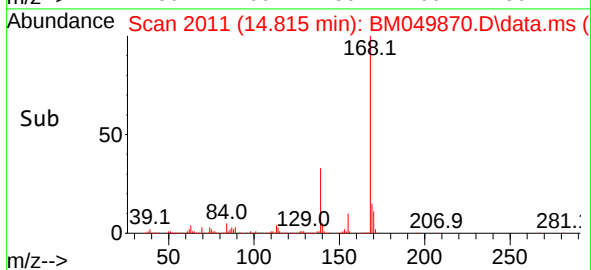
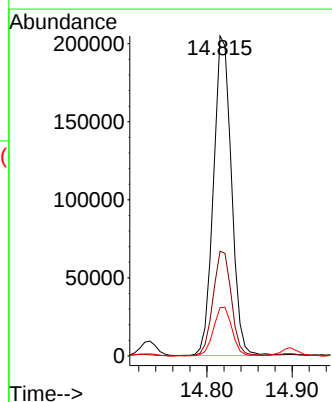
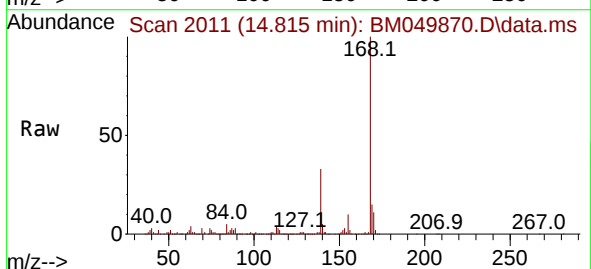
Instrument :
BNA_M
ClientSampleId :
Z-05ADL

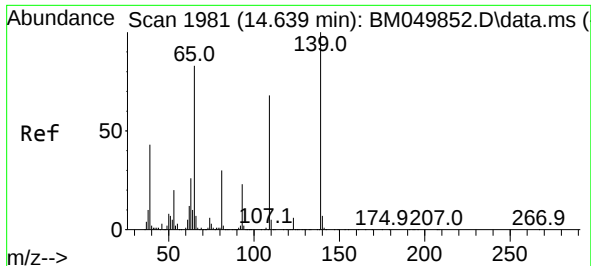
Tgt Ion:184 Resp: 55
Ion Ratio Lower Upper
184 100
63 310.3 38.4 57.6#
154 145.8 48.1 72.1#



#55
Dibenzofuran
Concen: 4.296 ng
RT: 14.815 min Scan# 2011
Delta R.T. -0.006 min
Lab File: BM049870.D
Acq: 09 Apr 2025 16:24

Tgt Ion:168 Resp: 299796
Ion Ratio Lower Upper
168 100
139 32.7 26.6 39.8
169 15.1 11.0 16.4

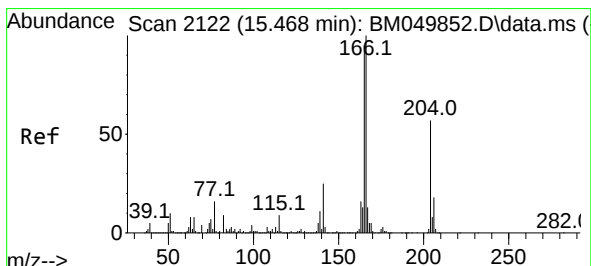
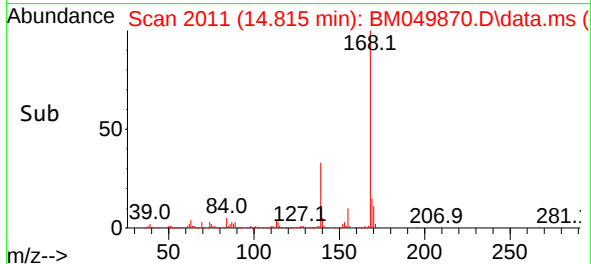
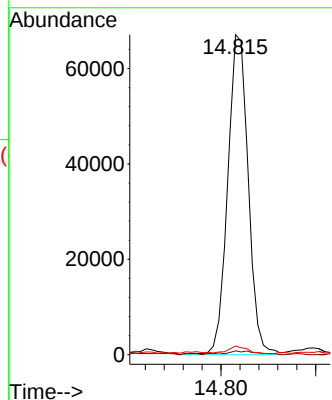
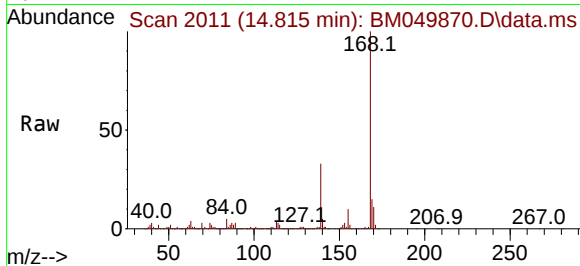




#56
4-Nitrophenol
Concen: 10.304 ng
RT: 14.815 min Scan# 2011
Delta R.T. 0.176 min
Lab File: BM049870.D
Acq: 09 Apr 2025 16:24

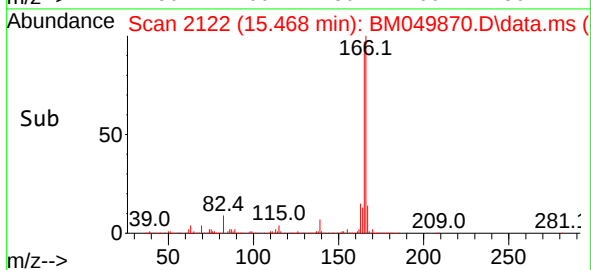
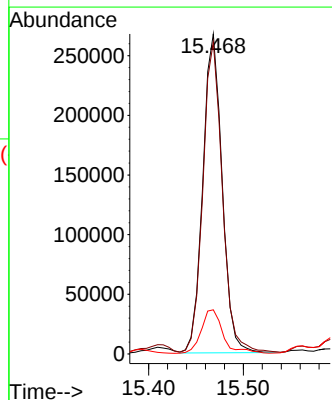
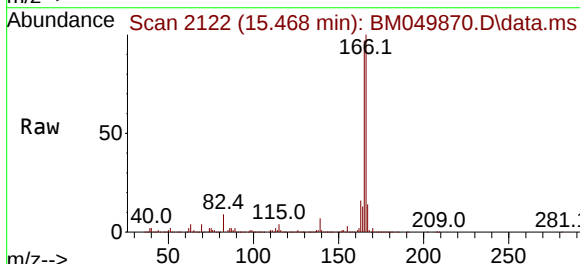
Instrument :
BNA_M
ClientSampleId :
Z-05ADL

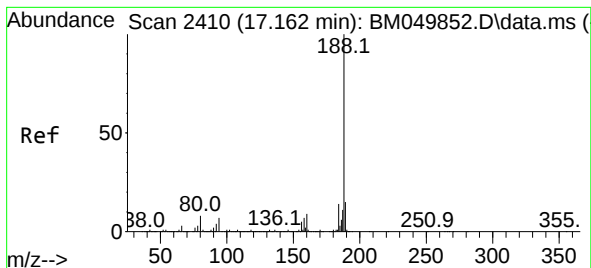
Tgt Ion:139 Resp: 101137
Ion Ratio Lower Upper
139 100
109 1.2 47.9 87.9#
65 2.7 62.7 102.7#



#58
Fluorene
Concen: 6.836 ng
RT: 15.468 min Scan# 2122
Delta R.T. -0.000 min
Lab File: BM049870.D
Acq: 09 Apr 2025 16:24

Tgt Ion:166 Resp: 379162
Ion Ratio Lower Upper
166 100
165 97.4 76.3 114.5
167 13.8 10.7 16.1





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 17.162 min Scan# 2410

Delta R.T. -0.000 min

Lab File: BM049870.D

Acq: 09 Apr 2025 16:24

Instrument :

BNA_M

ClientSampleId :

Z-05ADL

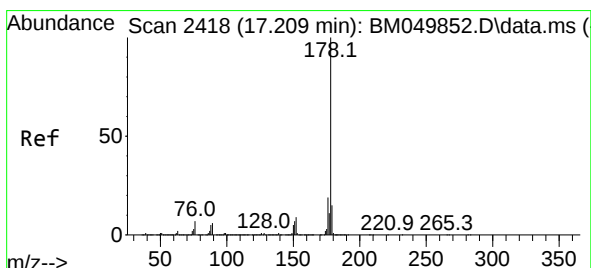
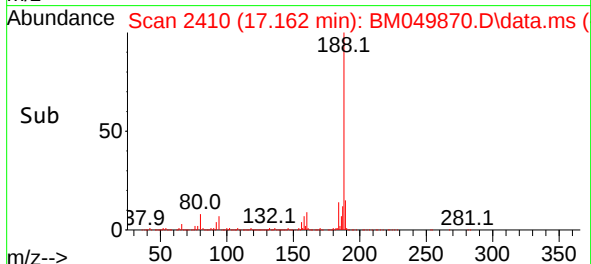
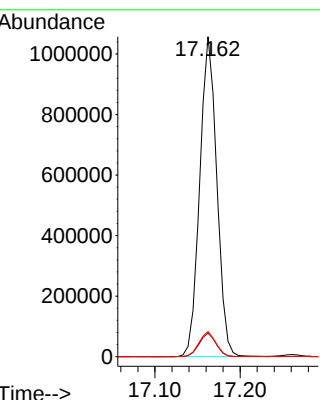
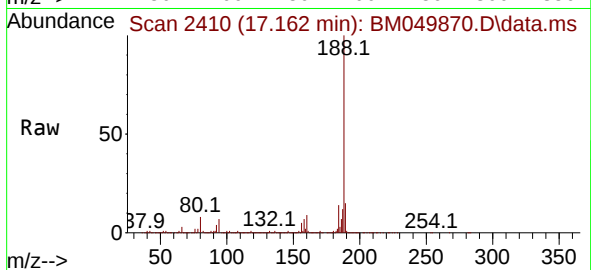
Tgt Ion:188 Resp: 1470730

Ion Ratio Lower Upper

188 100

94 7.4 5.8 8.6

80 7.9 6.4 9.6



#71

Phenanthrene

Concen: 88.810 ng

RT: 17.209 min Scan# 2418

Delta R.T. -0.000 min

Lab File: BM049870.D

Acq: 09 Apr 2025 16:24

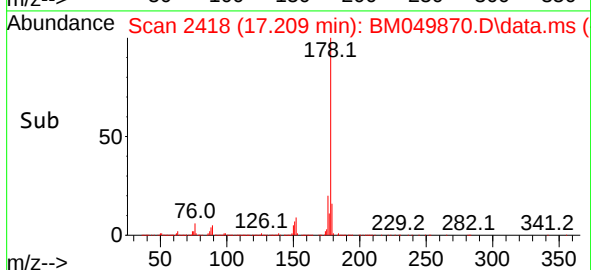
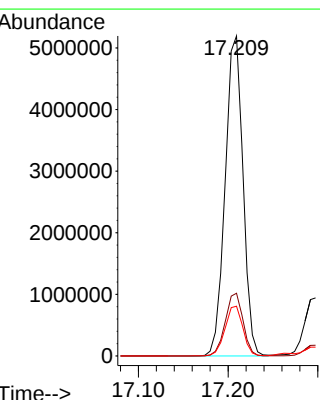
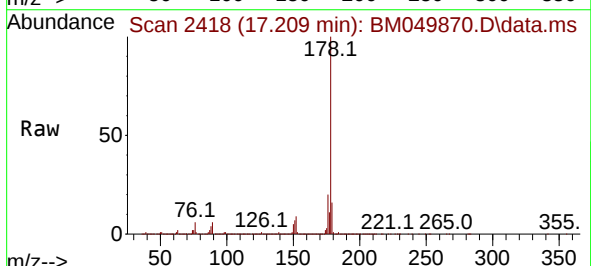
Tgt Ion:178 Resp: 7160827

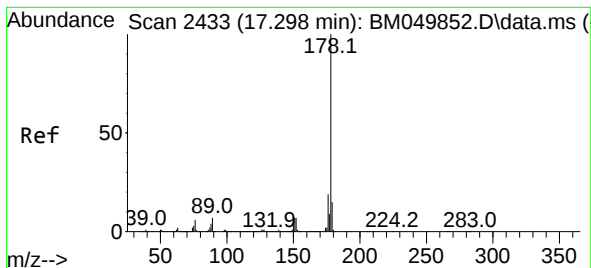
Ion Ratio Lower Upper

178 100

176 19.6 15.4 23.2

179 15.6 12.3 18.5





#72

Anthracene

Concen: 16.673 ng

RT: 17.298 min Scan# 2433

Delta R.T. -0.000 min

Lab File: BM049870.D

Acq: 09 Apr 2025 16:24

Instrument :

BNA_M

ClientSampleId :

Z-05ADL

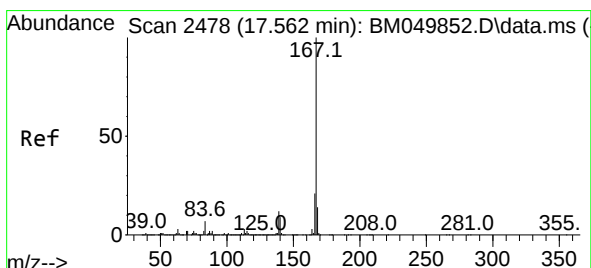
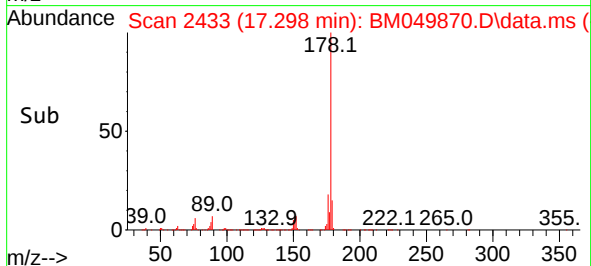
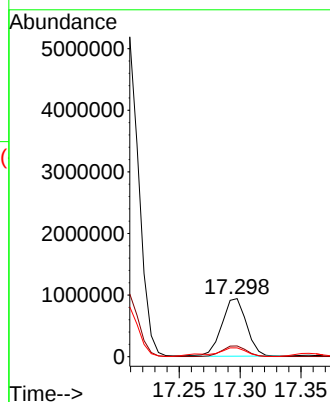
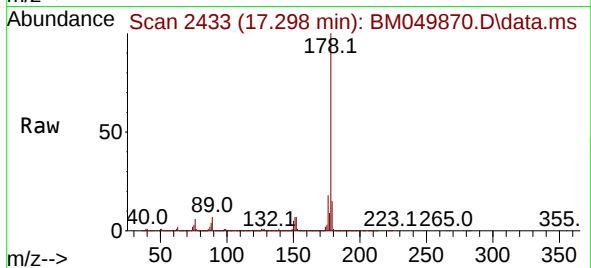
Tgt Ion:178 Resp: 1324876

Ion Ratio Lower Upper

178 100

176 18.5 15.1 22.7

179 15.2 12.4 18.6



#73

Carbazole

Concen: 7.520 ng

RT: 17.562 min Scan# 2478

Delta R.T. -0.000 min

Lab File: BM049870.D

Acq: 09 Apr 2025 16:24

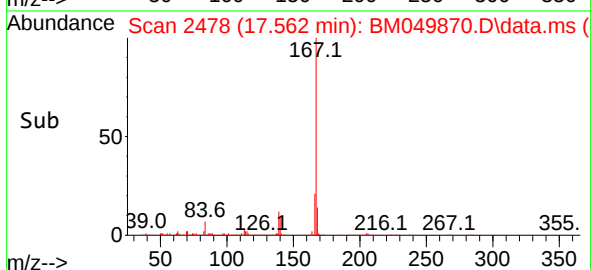
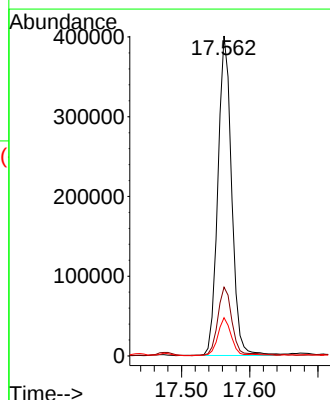
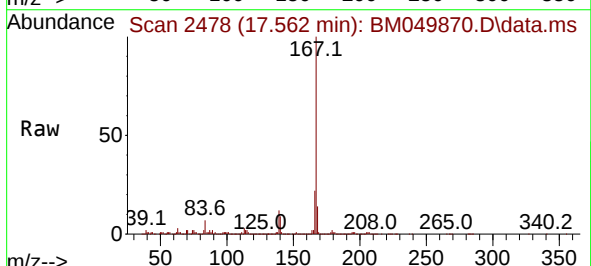
Tgt Ion:167 Resp: 562779

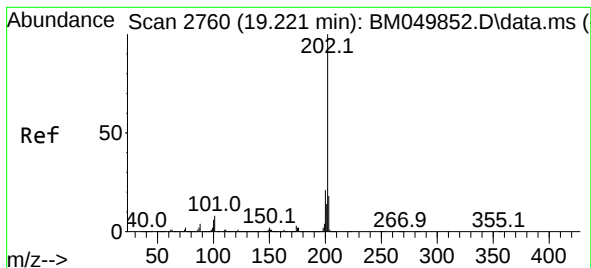
Ion Ratio Lower Upper

167 100

166 21.5 16.9 25.3

139 12.0 9.3 13.9





#75

Fluoranthene

Concen: 96.041 ng

RT: 19.227 min Scan# 21

Delta R.T. 0.006 min

Lab File: BM049870.D

Acq: 09 Apr 2025 16:24

Instrument :

BNA_M

ClientSampleId :

Z-05ADL

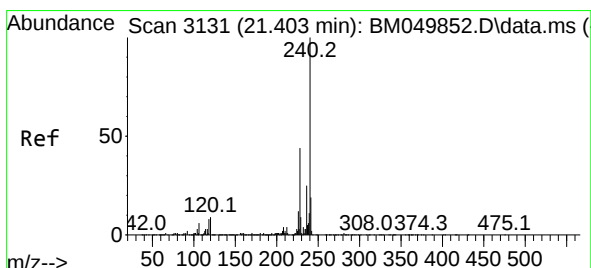
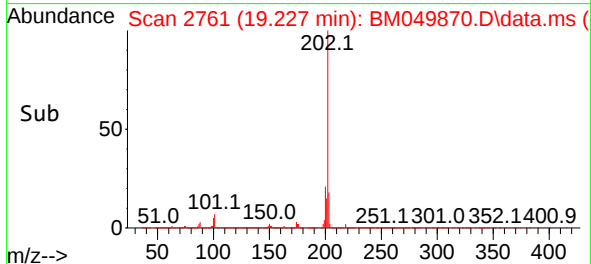
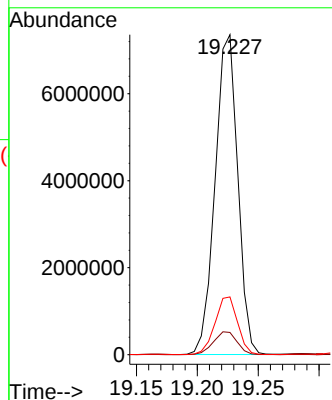
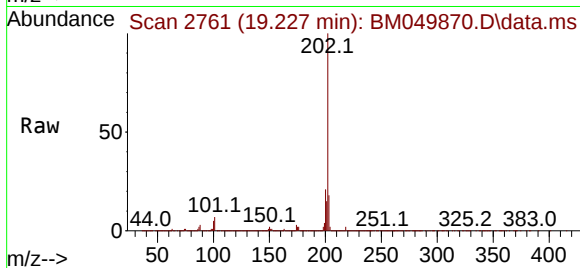
Tgt Ion:202 Resp: 9521469

Ion Ratio Lower Upper

202 100

101 6.9 0.0 28.4

203 18.1 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: BM049870.D

Acq: 09 Apr 2025 16:24

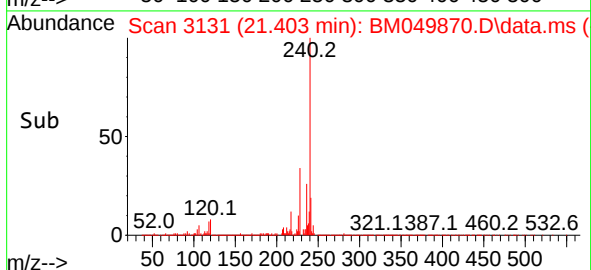
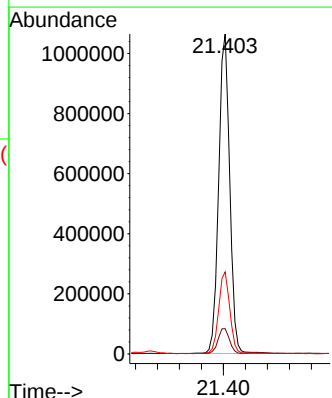
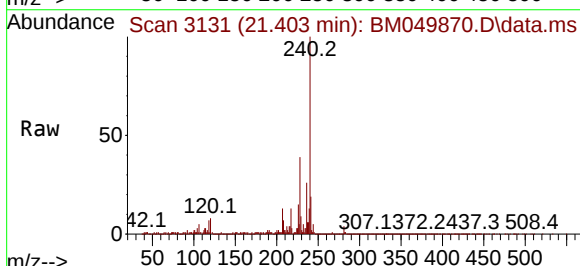
Tgt Ion:240 Resp: 1481399

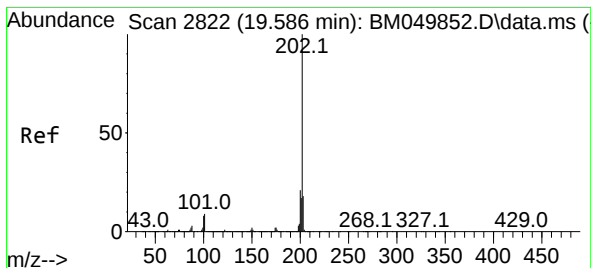
Ion Ratio Lower Upper

240 100

120 7.9 6.9 10.3

236 25.7 20.4 30.6





#78

Pyrene

Concen: 83.141 ng

RT: 19.586 min Scan# 2

Delta R.T. -0.000 min

Lab File: BM049870.D

Acq: 09 Apr 2025 16:24

Instrument :

BNA_M

ClientSampleId :

Z-05ADL

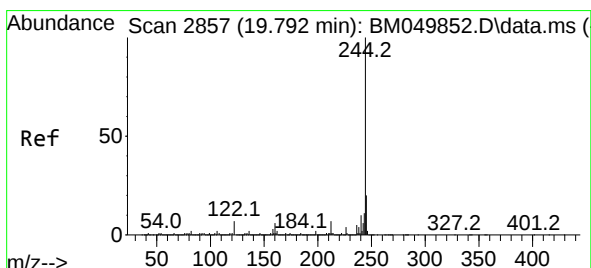
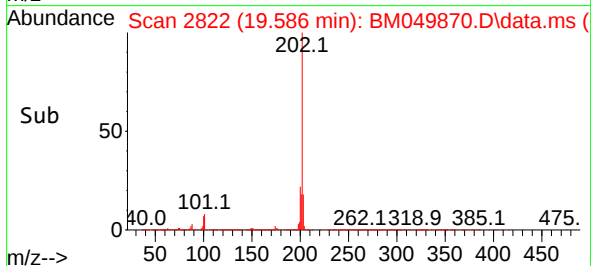
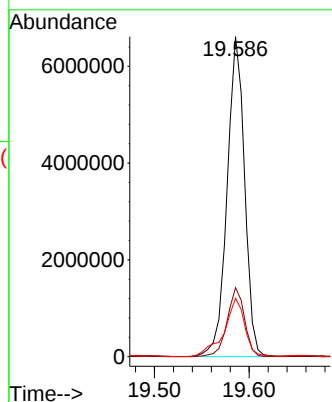
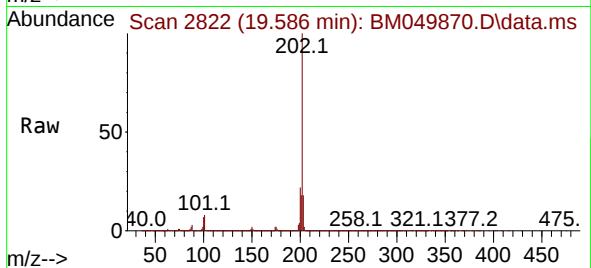
Tgt Ion:202 Resp: 8488286

Ion Ratio Lower Upper

202 100

200 21.5 16.5 24.7

203 18.3 14.0 21.0



#79

Terphenyl-d14

Concen: 5.616 ng

RT: 19.786 min Scan# 2856

Delta R.T. -0.006 min

Lab File: BM049870.D

Acq: 09 Apr 2025 16:24

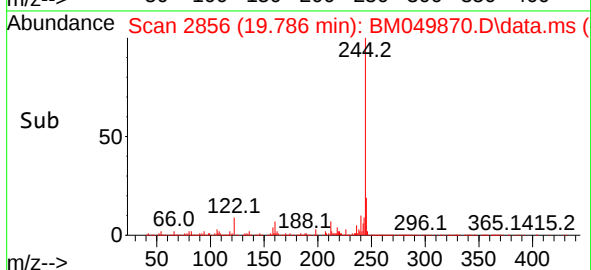
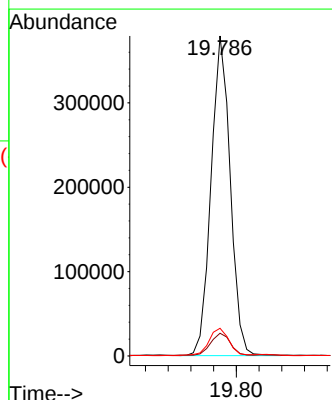
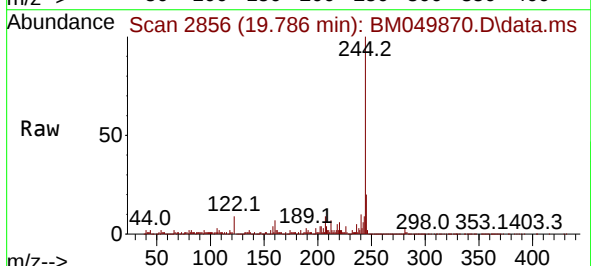
Tgt Ion:244 Resp: 443907

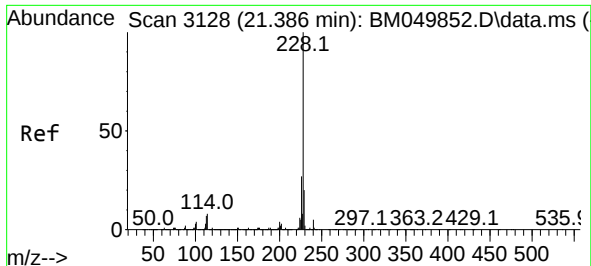
Ion Ratio Lower Upper

244 100

212 7.1 5.5 8.3

122 8.7 5.4 8.0#

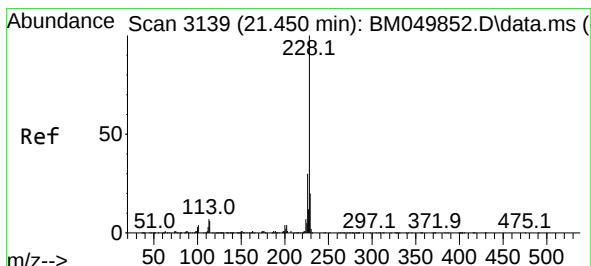
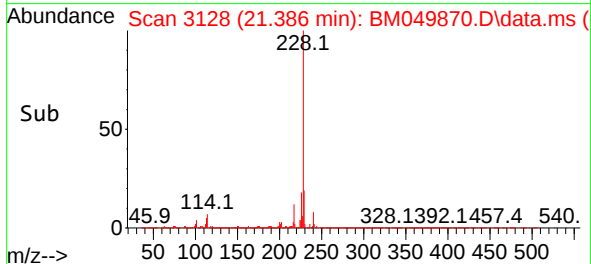
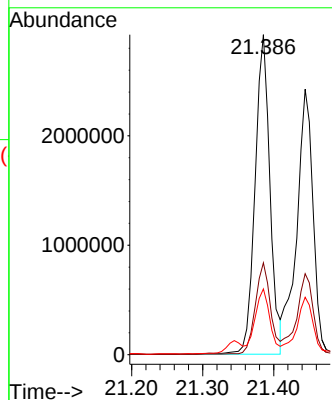
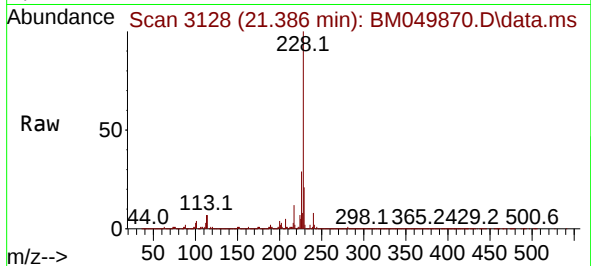




#81
Benzo(a)anthracene
Concen: 43.240 ng
RT: 21.386 min Scan# 3128
Delta R.T. -0.000 min
Lab File: BM049870.D
Acq: 09 Apr 2025 16:24

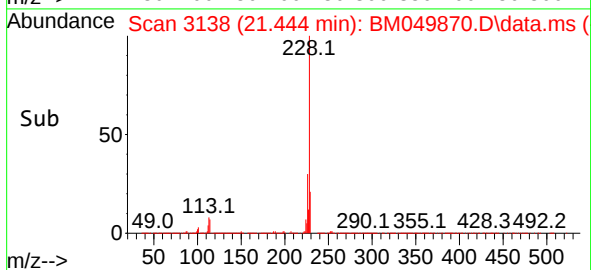
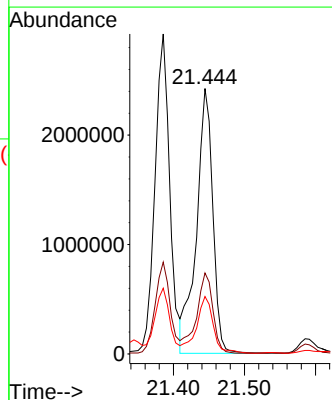
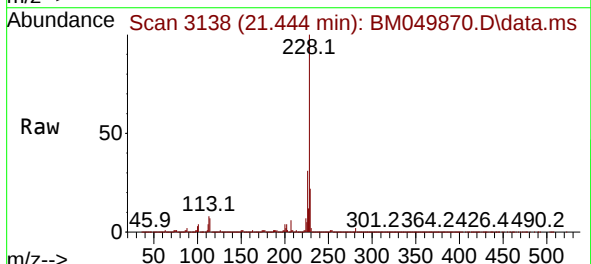
Instrument :
BNA_M
ClientSampleId :
Z-05ADL

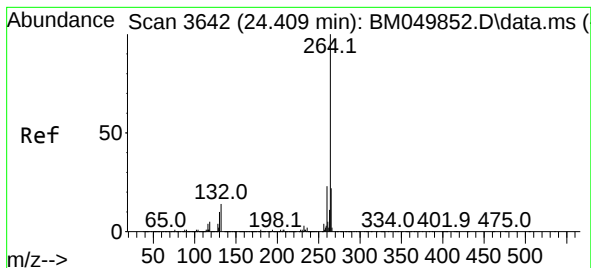
Tgt Ion:228 Resp: 4257112
Ion Ratio Lower Upper
228 100
226 28.7 21.8 32.8
229 20.6 15.8 23.8



#83
Chrysene
Concen: 41.507 ng
RT: 21.444 min Scan# 3138
Delta R.T. -0.006 min
Lab File: BM049870.D
Acq: 09 Apr 2025 16:24

Tgt Ion:228 Resp: 3885065
Ion Ratio Lower Upper
228 100
226 30.5 24.1 36.1
229 21.7 15.8 23.6





#86

Perylene-d12

Concen: 20.000 ng

RT: 24.397 min Scan# 3

Delta R.T. -0.012 min

Lab File: BM049870.D

Acq: 09 Apr 2025 16:24

Instrument :

BNA_M

ClientSampleId :

Z-05ADL

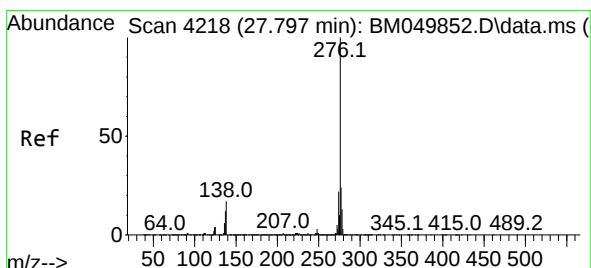
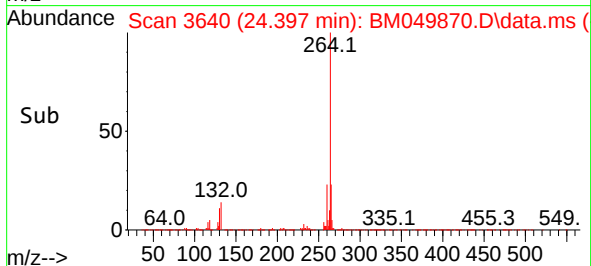
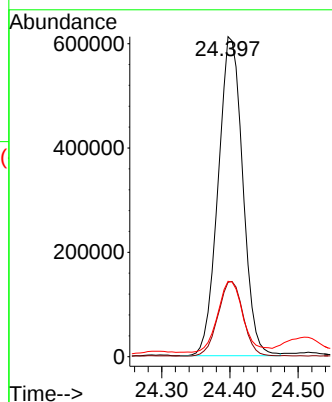
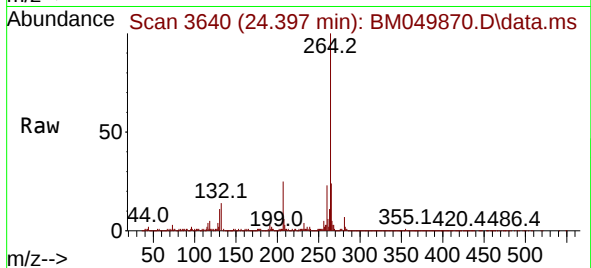
Tgt Ion:264 Resp: 1536362

Ion Ratio Lower Upper

264 100

260 23.2 18.6 28.0

265 23.6 17.8 26.8



#87

Indeno(1,2,3-cd)pyrene

Concen: 16.727 ng

RT: 27.785 min Scan# 4216

Delta R.T. -0.012 min

Lab File: BM049870.D

Acq: 09 Apr 2025 16:24

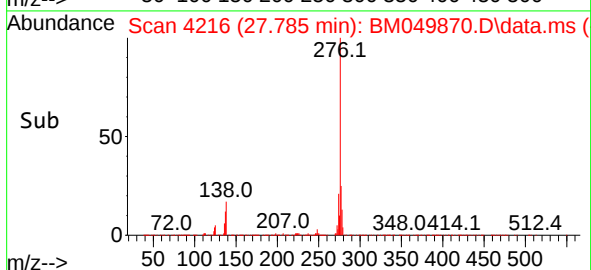
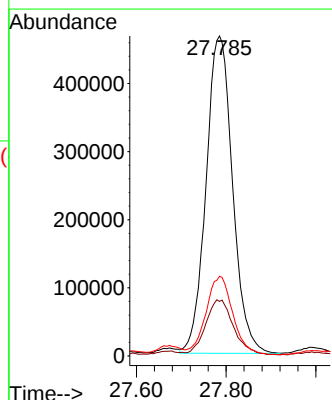
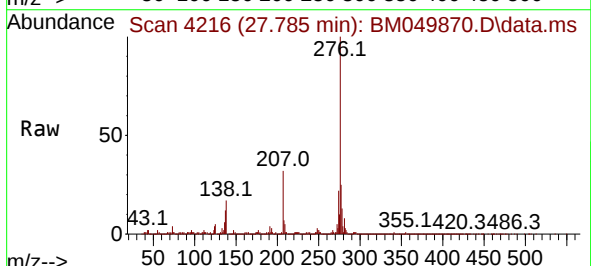
Tgt Ion:276 Resp: 1915591

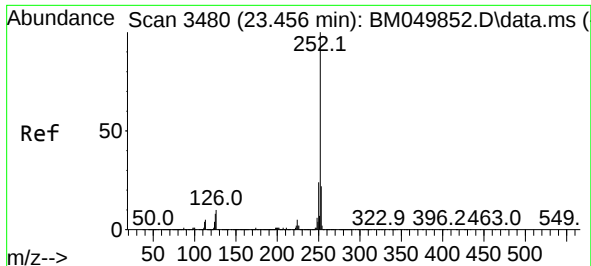
Ion Ratio Lower Upper

276 100

138 18.3 16.8 25.2

277 24.9 20.1 30.1

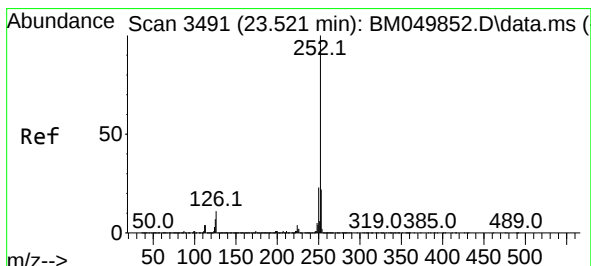
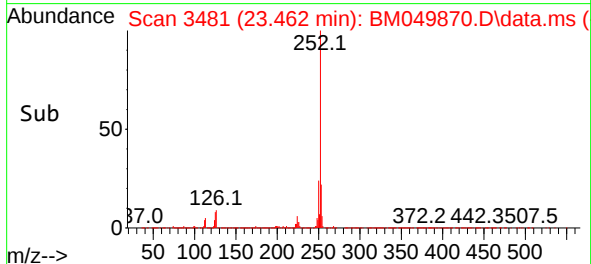
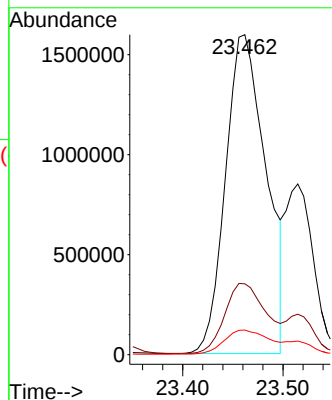
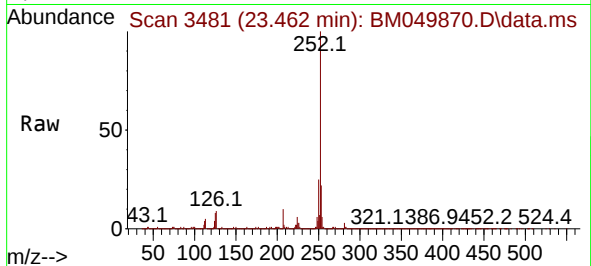




#88
Benzo(b)fluoranthene
Concen: 45.722 ng
RT: 23.462 min Scan# 3481
Delta R.T. 0.006 min
Lab File: BM049870.D
Acq: 09 Apr 2025 16:24

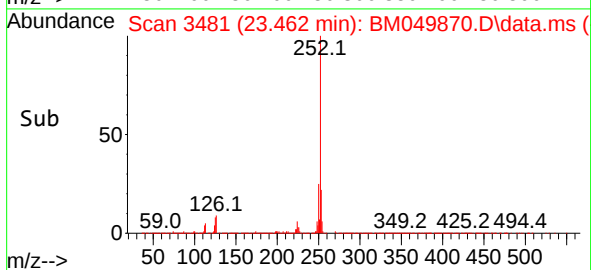
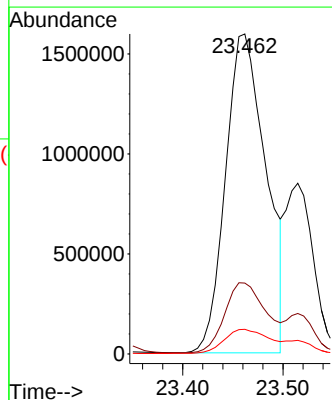
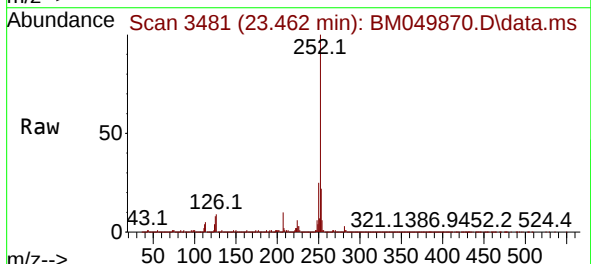
Instrument :
BNA_M
ClientSampleId :
Z-05ADL

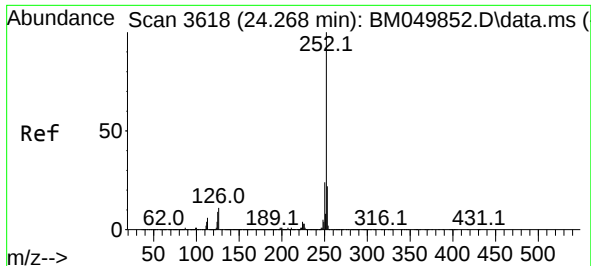
Tgt Ion:252 Resp: 4486320
Ion Ratio Lower Upper
252 100
253 22.1 17.5 26.3
125 7.7 6.2 9.4



#89
Benzo(k)fluoranthene
Concen: 47.181 ng
RT: 23.462 min Scan# 3481
Delta R.T. -0.059 min
Lab File: BM049870.D
Acq: 09 Apr 2025 16:24

Tgt Ion:252 Resp: 4486320
Ion Ratio Lower Upper
252 100
253 22.1 17.4 26.2
125 7.7 5.8 8.8

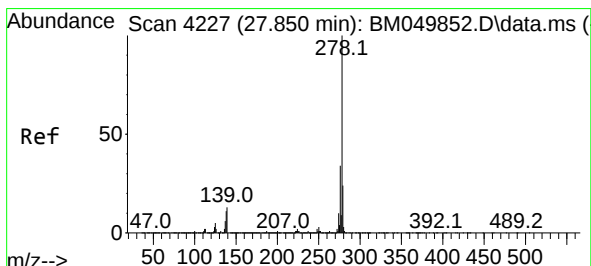
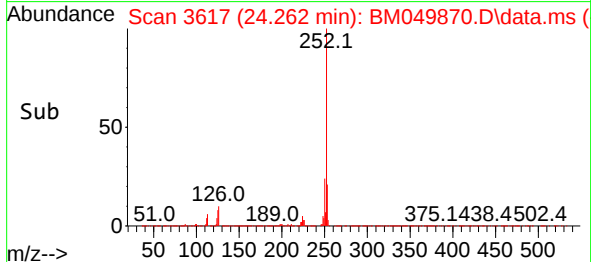
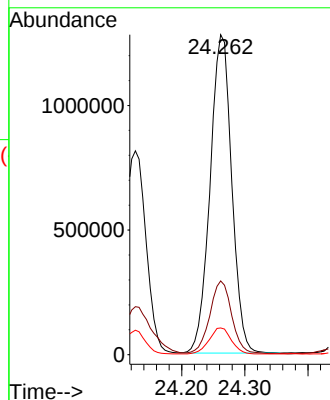
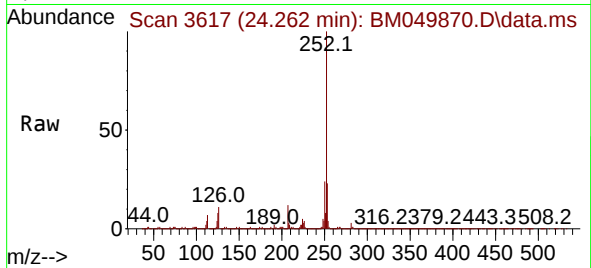




#90
Benzo(a)pyrene
Concen: 35.303 ng
RT: 24.262 min Scan# 3618
Delta R.T. -0.006 min
Lab File: BM049870.D
Acq: 09 Apr 2025 16:24

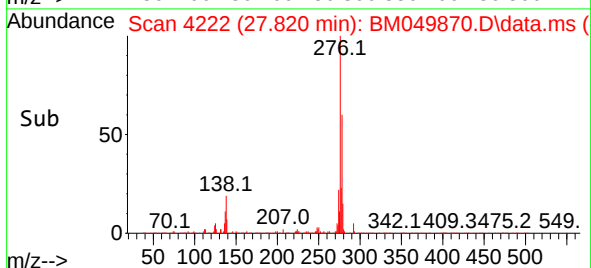
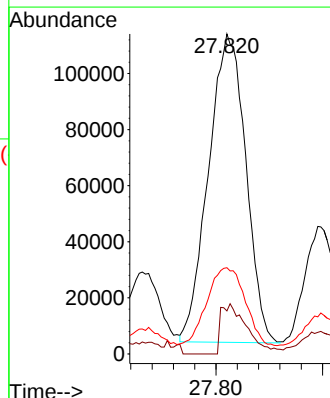
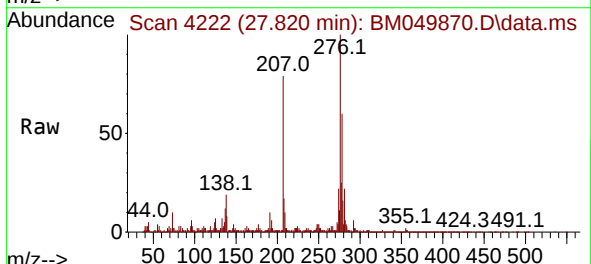
Instrument :
BNA_M
ClientSampleId :
Z-05ADL

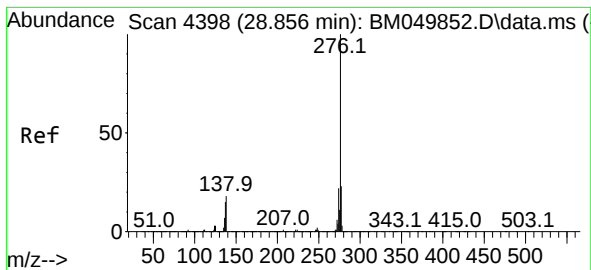
Tgt Ion:252 Resp: 3043879
Ion Ratio Lower Upper
252 100
253 23.1 17.8 26.8
125 8.4 7.0 10.4



#91
Dibenzo(a,h)anthracene
Concen: 5.664 ng
RT: 27.820 min Scan# 4222
Delta R.T. -0.030 min
Lab File: BM049870.D
Acq: 09 Apr 2025 16:24

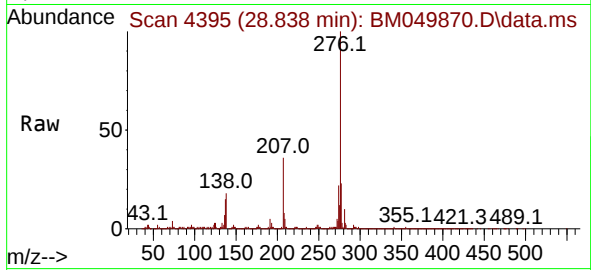
Tgt Ion:278 Resp: 534287
Ion Ratio Lower Upper
278 100
139 13.5 10.6 15.8
279 27.0 19.1 28.7





#92
 Benzo(g,h,i)perylene
 Concen: 18.911 ng
 RT: 28.838 min Scan# 41
 Delta R.T. -0.018 min
 Lab File: BM049870.D
 Acq: 09 Apr 2025 16:24

Instrument :
 BNA_M
 ClientSampleId :
 Z-05ADL



Tgt Ion:276 Resp: 1822891

Ion	Ratio	Lower	Upper
276	100		
277	23.1	18.7	28.1
138	18.0	14.6	21.8

