

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM042125\
 Data File : BM049987.D
 Acq On : 21 Apr 2025 16:32
 Operator : RC/JU
 Sample : Q1832-31DL 50X
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 PL-714-COMP-6DL

Quant Time: Apr 21 17:07:48 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)

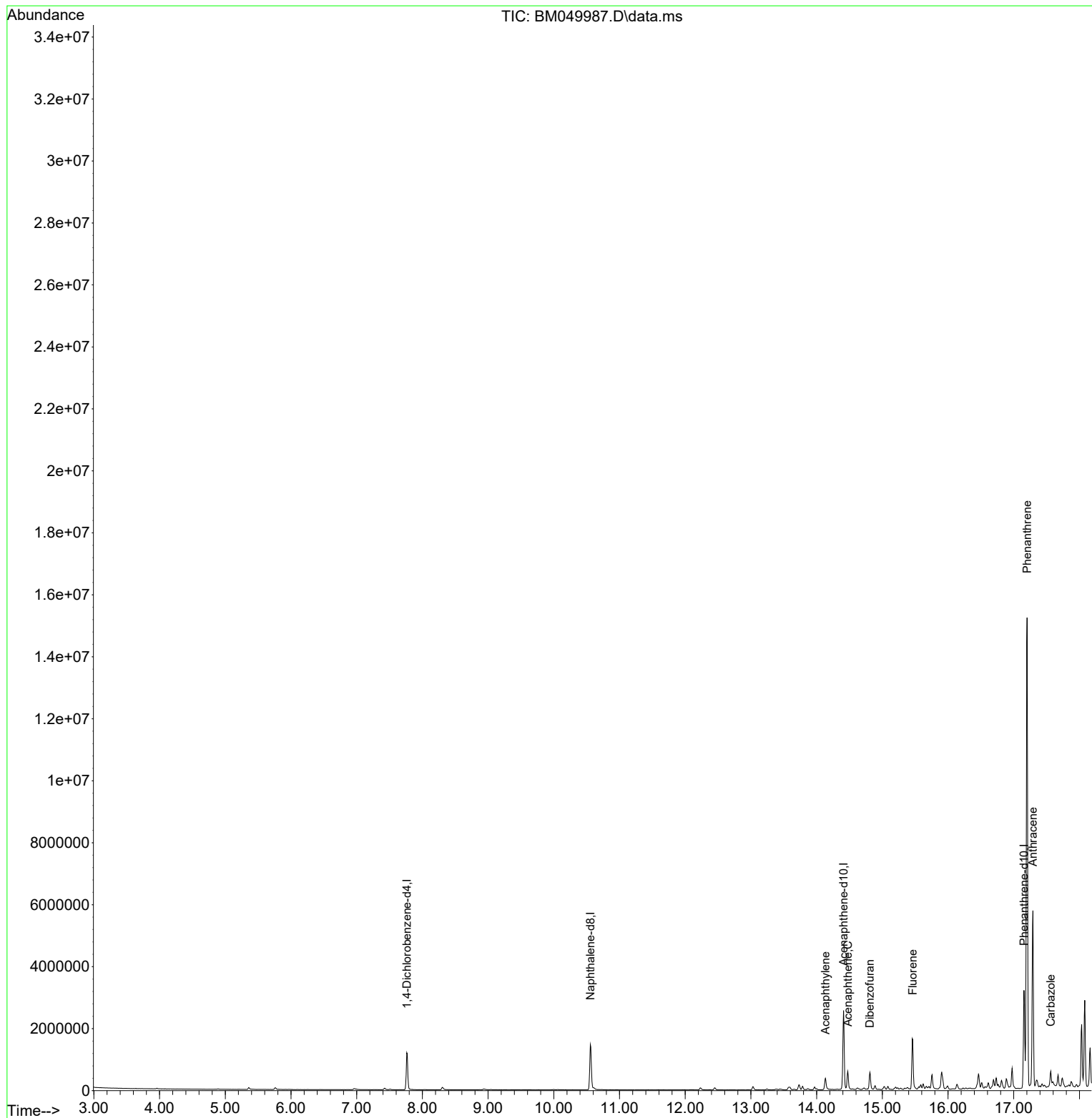
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.763	152	363301	20.000	ng	-0.02
21) Naphthalene-d8	10.557	136	1337225	20.000	ng	-0.02
39) Acenaphthene-d10	14.410	164	926848	20.000	ng	-0.01
64) Phenanthrene-d10	17.156	188	1958359	20.000	ng	0.00
76) Chrysene-d12	21.403	240	2104484	20.000	ng	0.00
86) Perylene-d12	24.403	264	1677914	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.357	112	29668	1.387	ng	0.00
7) Phenol-d6	6.963	99	32830	1.233	ng	0.01
23) Nitrobenzene-d5	8.933	82	22491	0.937	ng	0.00
42) 2,4,6-Tribromophenol	15.909	330	18854	1.399	ng	0.00
45) 2-Fluorobiphenyl	13.033	172	68662	1.005	ng	-0.01
79) Terphenyl-d14	19.780	244	155605	1.386	ng	-0.01
Target Compounds						Qvalue
49) Acenaphthylene	14.133	152	327532	4.152	ng	99
52) Acenaphthene	14.474	154	208870	4.163	ng	97
55) Dibenzofuran	14.809	168	355063	4.233	ng	99
58) Fluorene	15.462	166	774218	11.612	ng	99
71) Phenanthrene	17.203	178	9611660	89.523	ng	99
72) Anthracene	17.292	178	3591612	33.945	ng	99
73) Carbazole	17.562	167	334734	3.359	ng	99
75) Fluoranthene	19.215	202	15543802	117.747	ng	93
78) Pyrene	19.580	202	13963863	96.278	ng	# 90
81) Benzo(a)anthracene	21.386	228	9146285	65.394	ng	96
83) Chrysene	21.444	228	7321297	55.060	ng	96
87) Indeno(1,2,3-cd)pyrene	27.791	276	2793624	22.336	ng	96
88) Benzo(b)fluoranthene	23.462	252	7453416	69.553	ng	98
89) Benzo(k)fluoranthene	23.515	252	2816588m	27.122	ng	
90) Benzo(a)pyrene	24.268	252	5197391	55.194	ng	99
91) Dibenzo(a,h)anthracene	27.826	278	785075	7.620	ng	94
92) Benzo(g,h,i)perylene	28.850	276	2464094	23.406	ng	99

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

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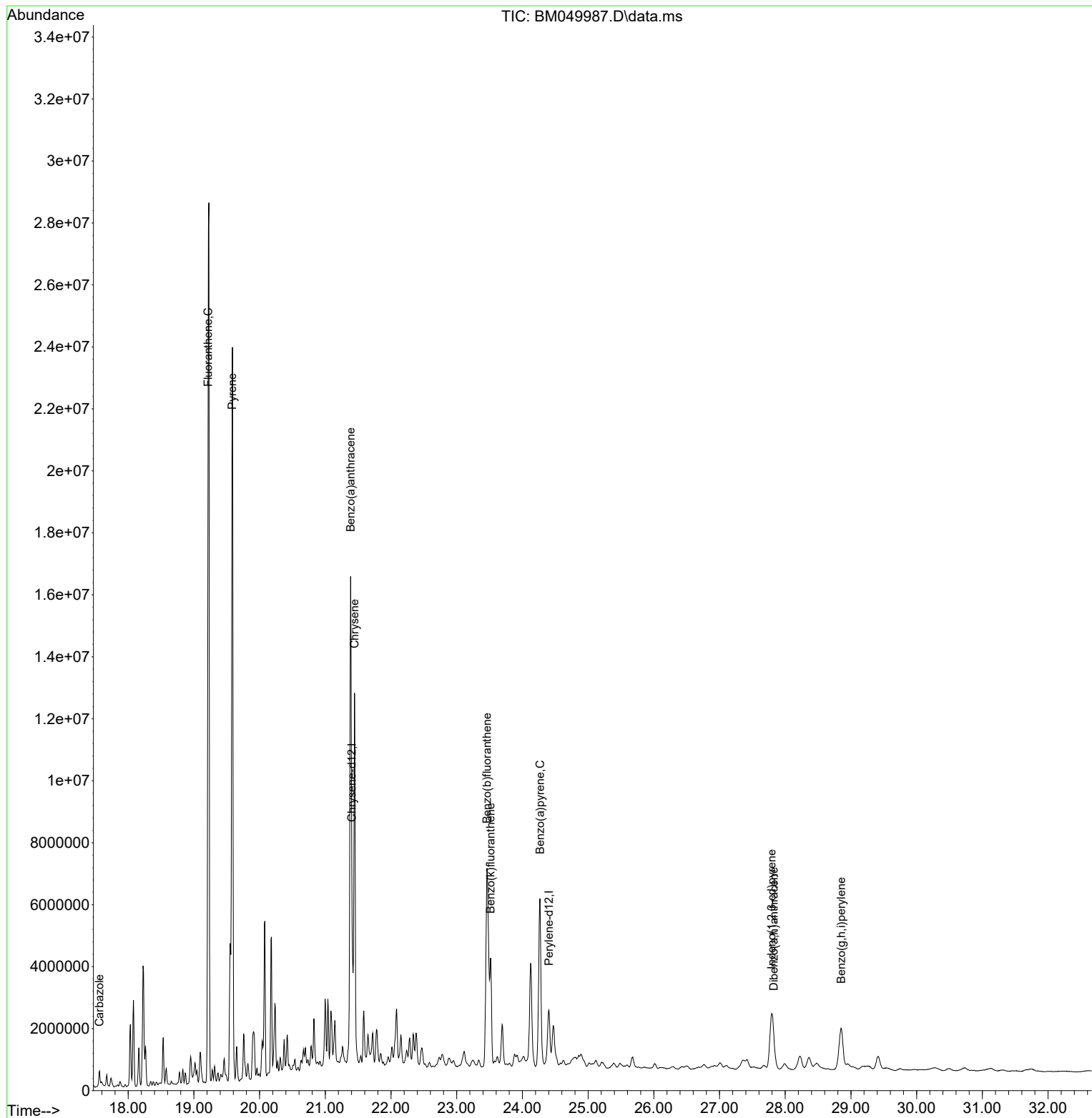
Quant Time: Apr 21 17:07:48 2025
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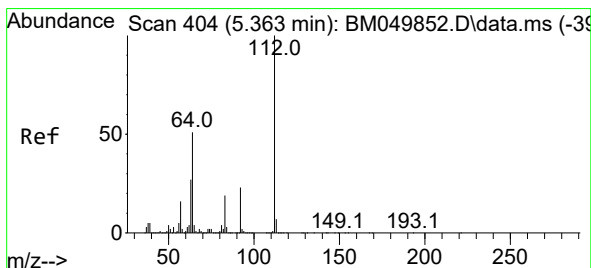
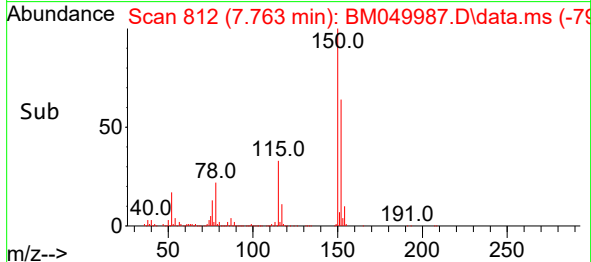
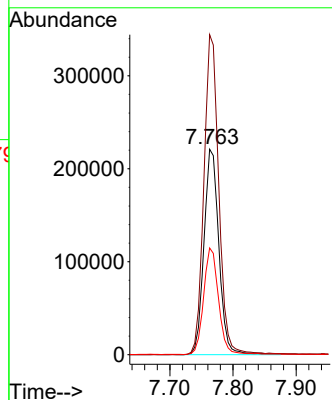
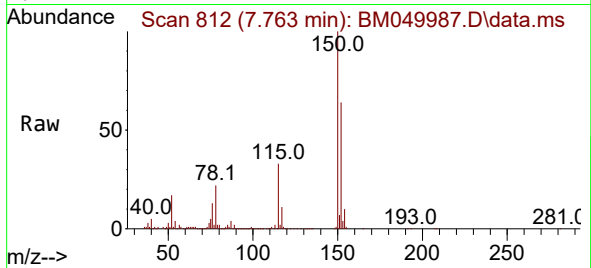




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.763 min Scan# 815
Delta R.T. -0.018 min
Lab File: BM049987.D
Acq: 21 Apr 2025 16:32

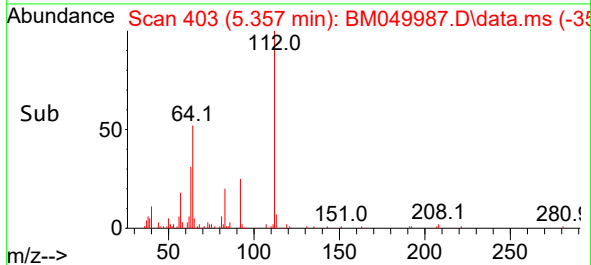
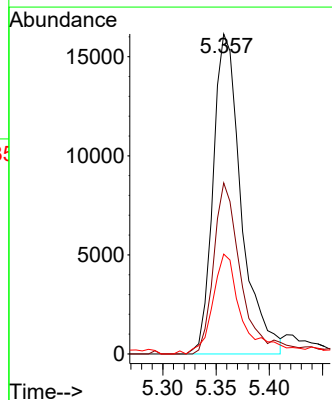
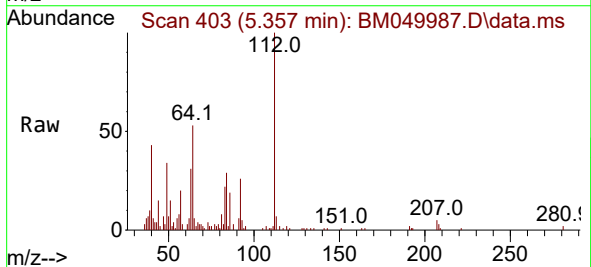
Instrument :
BNA_M
ClientSampleId :
PL-714-COMP-6DL

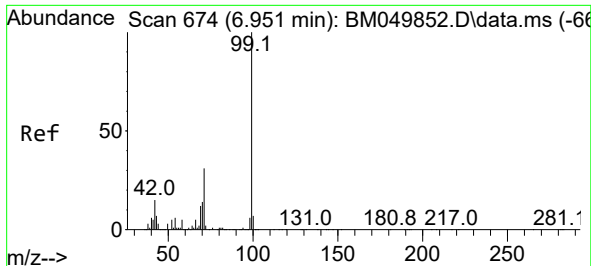
Tgt Ion:152 Resp: 363301
Ion Ratio Lower Upper
152 100
150 155.8 124.3 186.5
115 52.0 41.1 61.7



#5
2-Fluorophenol
Concen: 1.387 ng
RT: 5.357 min Scan# 403
Delta R.T. -0.006 min
Lab File: BM049987.D
Acq: 21 Apr 2025 16:32

Tgt Ion:112 Resp: 29668
Ion Ratio Lower Upper
112 100
64 53.4 41.0 61.6
63 31.2 21.5 32.3

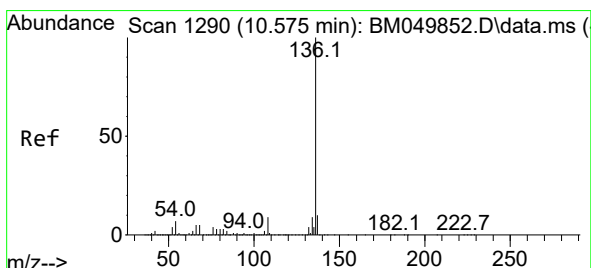
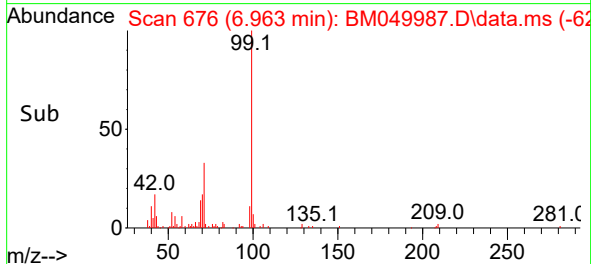
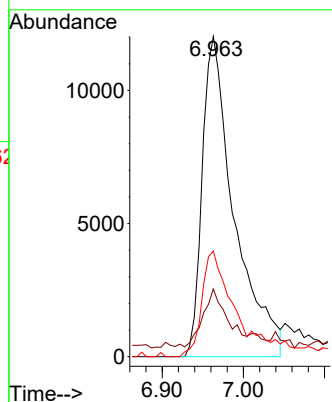
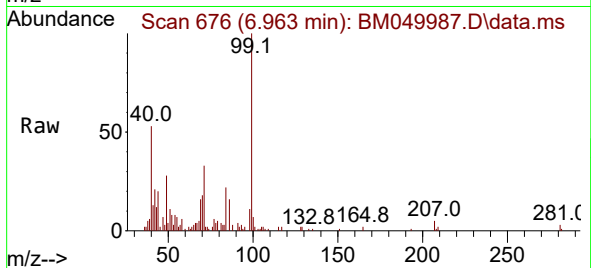




#7
Phenol-d6
Concen: 1.233 ng
RT: 6.963 min Scan# 61
Delta R.T. 0.012 min
Lab File: BM049987.D
Acq: 21 Apr 2025 16:32

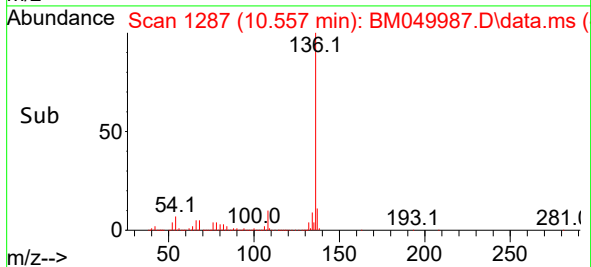
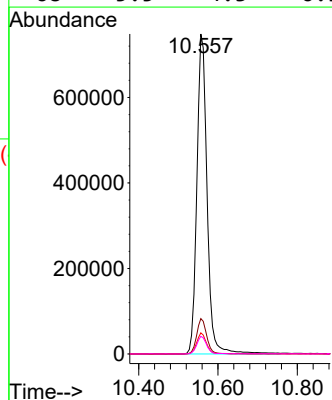
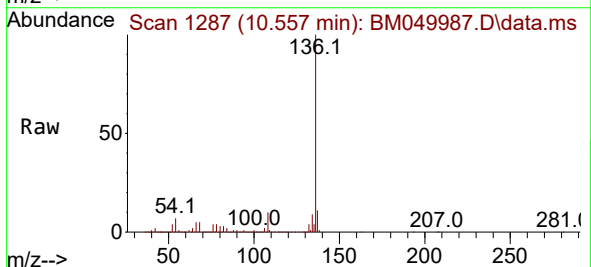
Instrument :
BNA_M
ClientSampleId :
PL-714-COMP-6DL

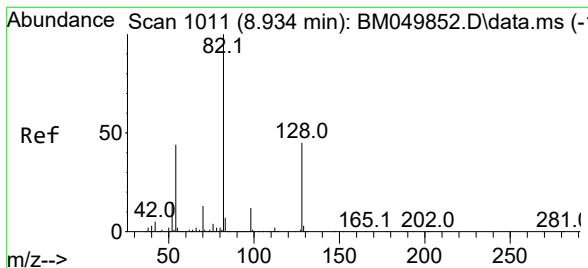
Tgt Ion: 99 Resp: 32830
Ion Ratio Lower Upper
99 100
42 21.2 12.1 18.1#
71 33.0 24.9 37.3



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.557 min Scan# 1287
Delta R.T. -0.018 min
Lab File: BM049987.D
Acq: 21 Apr 2025 16:32

Tgt Ion:136 Resp: 1337225
Ion Ratio Lower Upper
136 100
137 11.0 8.4 12.6
54 6.6 5.3 7.9
68 5.5 4.3 6.5

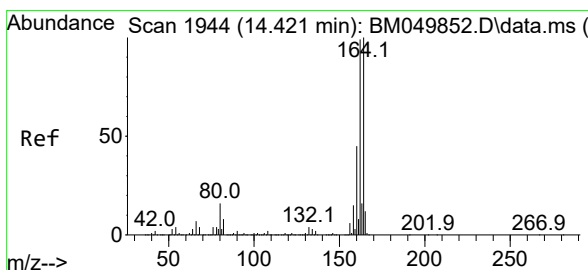
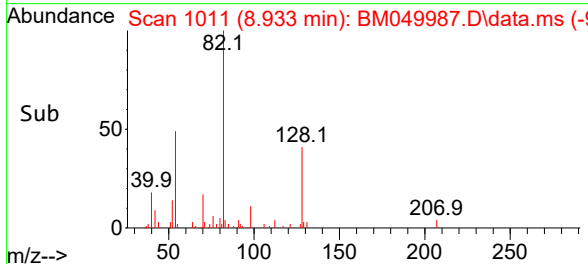
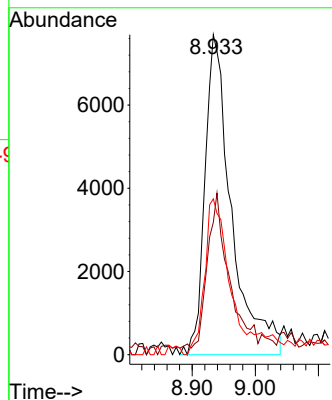
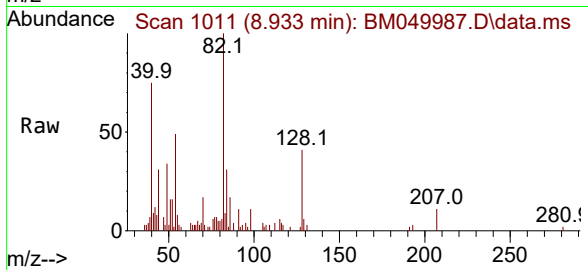




#23
Nitrobenzene-d5
Concen: 0.937 ng
RT: 8.933 min Scan# 1011
Delta R.T. -0.000 min
Lab File: BM049987.D
Acq: 21 Apr 2025 16:32

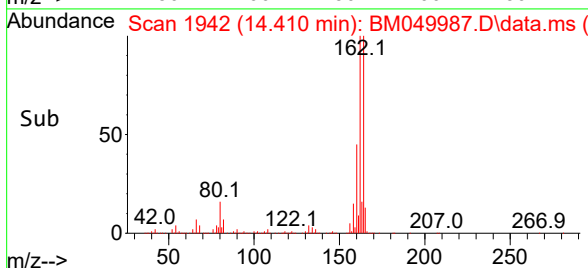
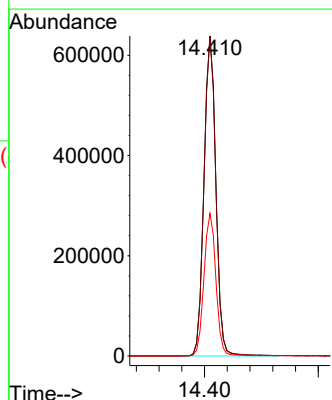
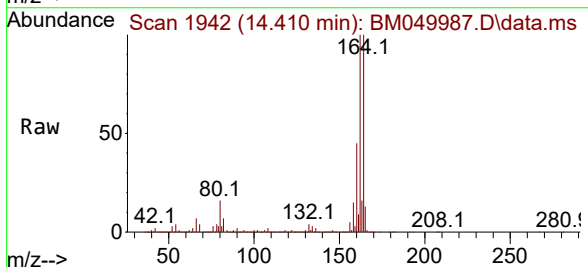
Instrument :
BNA_M
ClientSampleId :
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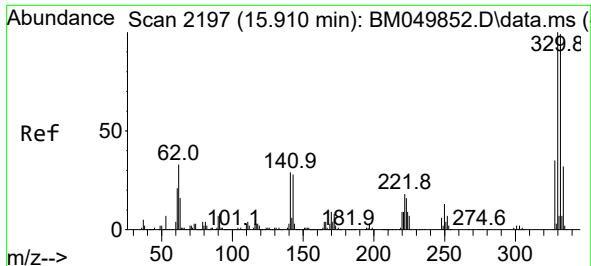
Tgt Ion: 82 Resp: 22491
Ion Ratio Lower Upper
82 100
128 41.4 36.2 54.2
54 48.7 35.0 52.6



#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.410 min Scan# 1942
Delta R.T. -0.012 min
Lab File: BM049987.D
Acq: 21 Apr 2025 16:32

Tgt Ion:164 Resp: 926848
Ion Ratio Lower Upper
164 100
162 100.0 79.4 119.0
160 44.5 36.2 54.2





#42

2,4,6-Tribromophenol

Concen: 1.399 ng

RT: 15.909 min Scan# 21

Delta R.T. -0.000 min

Lab File: BM049987.D

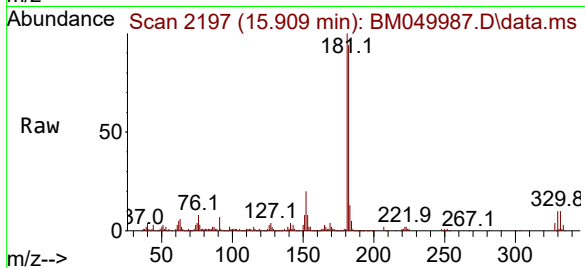
Acq: 21 Apr 2025 16:32

Instrument :

BNA_M

ClientSampleId :

PL-714-COMP-6DL



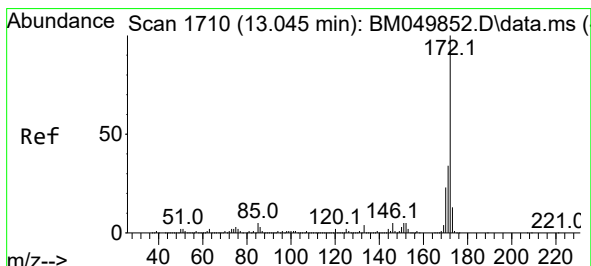
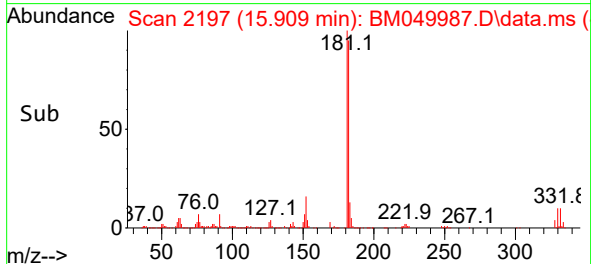
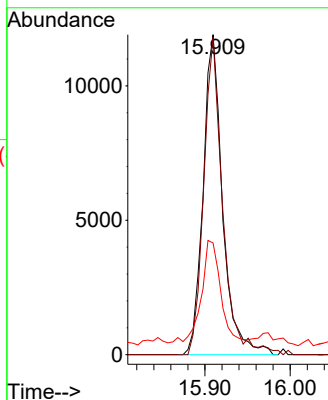
Tgt Ion:330 Resp: 18854

Ion Ratio Lower Upper

330 100

332 96.9 78.0 117.0

141 31.7 23.5 35.3



#45

2-Fluorobiphenyl

Concen: 1.005 ng

RT: 13.033 min Scan# 1708

Delta R.T. -0.012 min

Lab File: BM049987.D

Acq: 21 Apr 2025 16:32

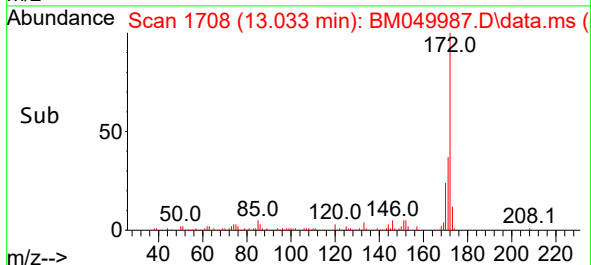
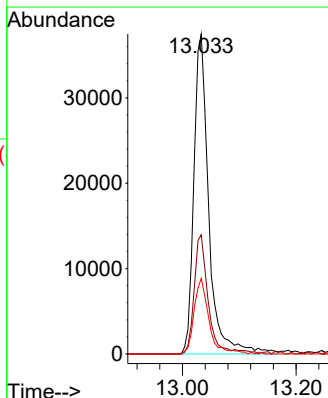
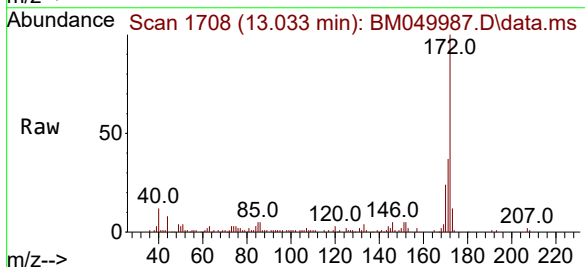
Tgt Ion:172 Resp: 68662

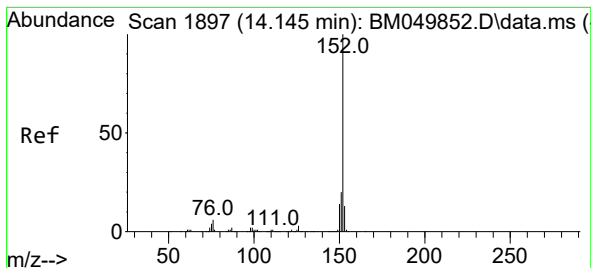
Ion Ratio Lower Upper

172 100

171 37.3 27.4 41.2

170 23.6 18.6 28.0





#49

Acenaphthylene

Concen: 4.152 ng

RT: 14.133 min Scan# 1895

Delta R.T. -0.012 min

Lab File: BM049987.D

Acq: 21 Apr 2025 16:32

Instrument :

BNA_M

ClientSampleId :

PL-714-COMP-6DL

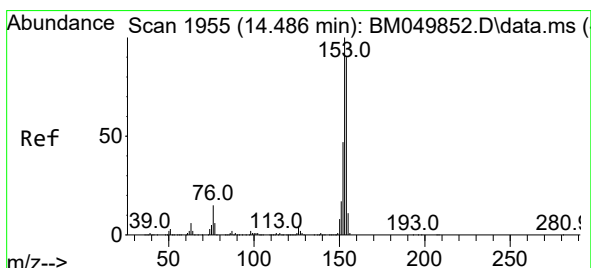
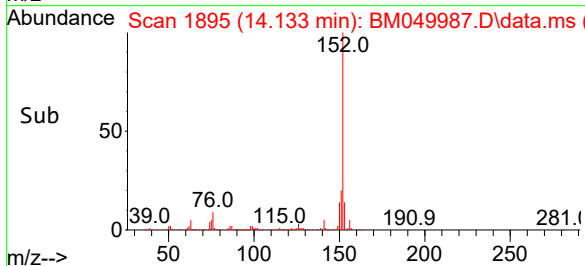
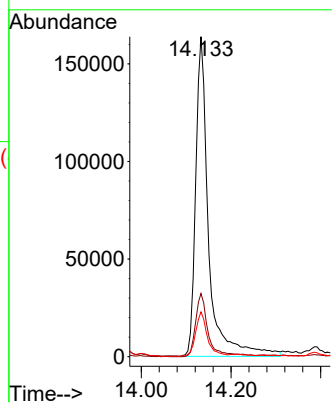
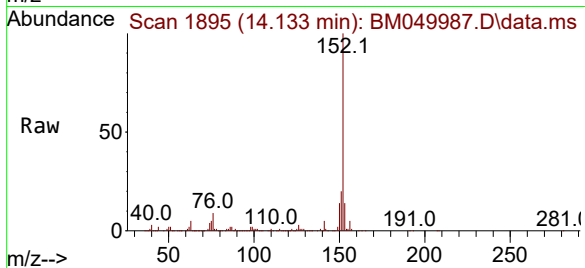
Tgt Ion:152 Resp: 327532

Ion Ratio Lower Upper

152 100

151 19.7 15.7 23.5

153 14.0 10.4 15.6



#52

Acenaphthene

Concen: 4.163 ng

RT: 14.474 min Scan# 1953

Delta R.T. -0.012 min

Lab File: BM049987.D

Acq: 21 Apr 2025 16:32

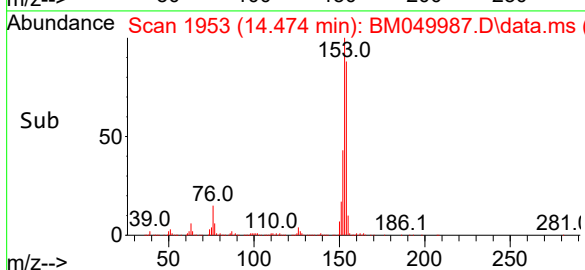
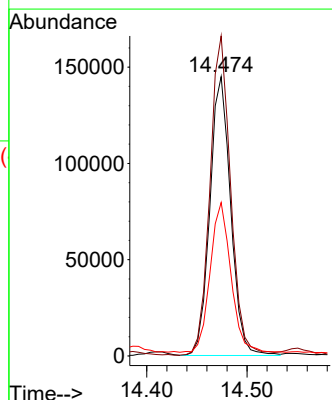
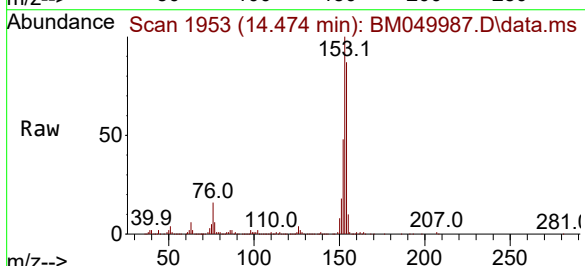
Tgt Ion:154 Resp: 208870

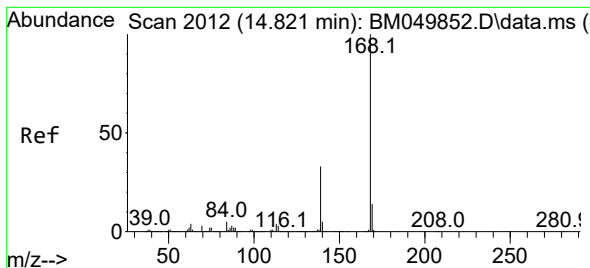
Ion Ratio Lower Upper

154 100

153 114.6 89.3 133.9

152 54.9 42.2 63.2





#55

Dibenzenofuran

Concen: 4.233 ng

RT: 14.809 min Scan# 2010

Delta R.T. -0.012 min

Lab File: BM049987.D

Acq: 21 Apr 2025 16:32

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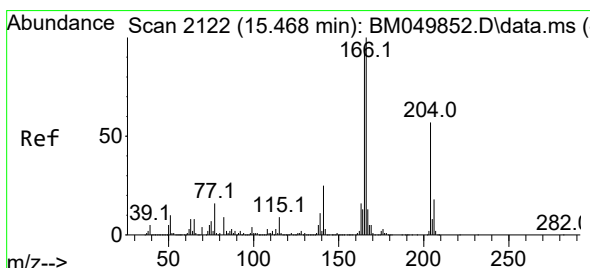
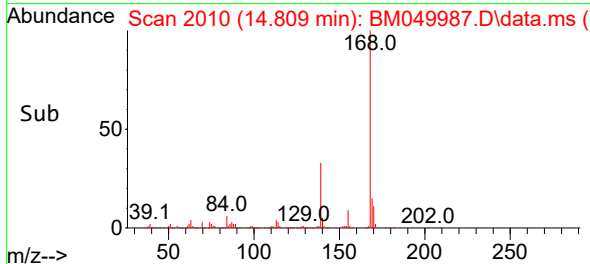
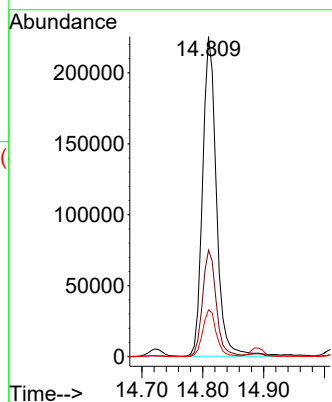
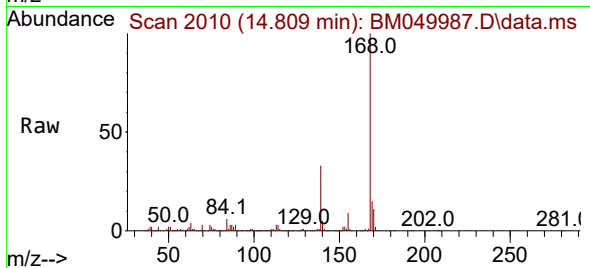
Tgt Ion:168 Resp: 355063

Ion Ratio Lower Upper

168 100

139 33.3 26.6 39.8

169 14.7 11.0 16.4



#58

Fluorene

Concen: 11.612 ng

RT: 15.462 min Scan# 2121

Delta R.T. -0.006 min

Lab File: BM049987.D

Acq: 21 Apr 2025 16:32

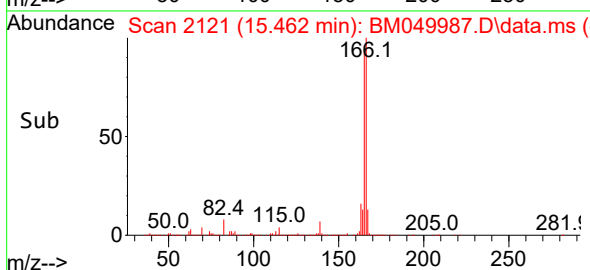
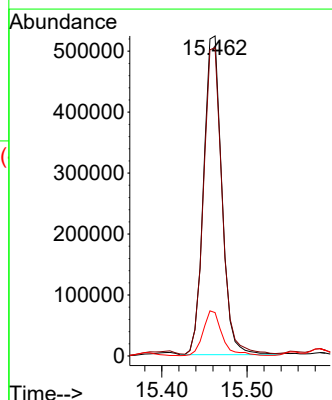
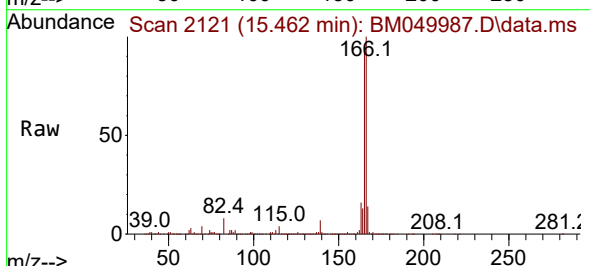
Tgt Ion:166 Resp: 774218

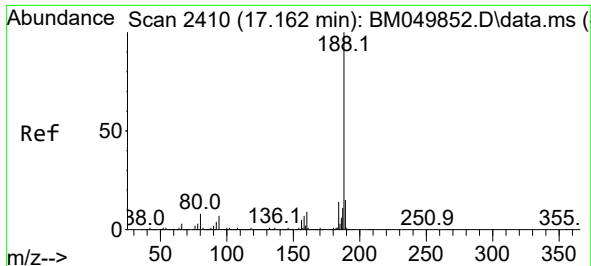
Ion Ratio Lower Upper

166 100

165 96.3 76.3 114.5

167 13.6 10.7 16.1

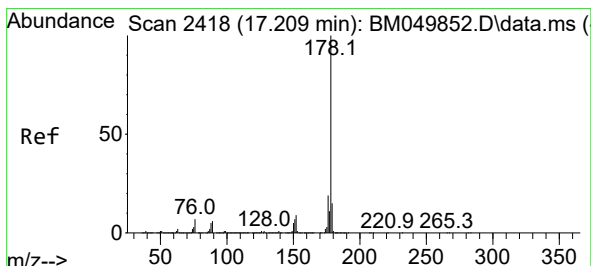
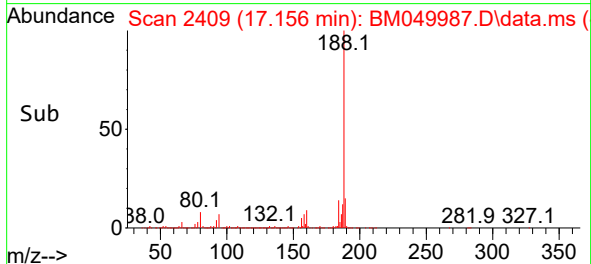
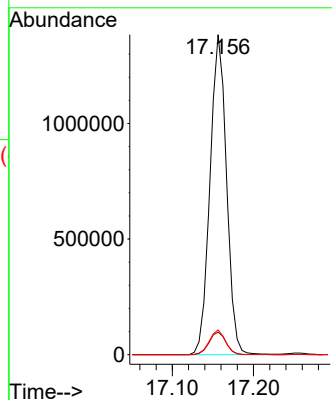
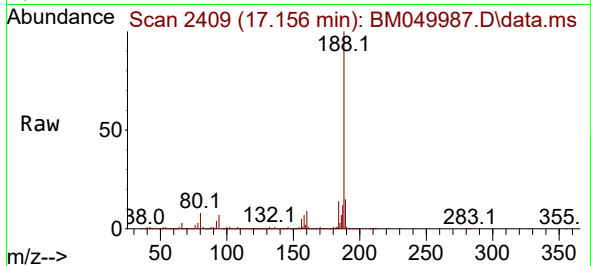




#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.156 min Scan# 2410
Delta R.T. -0.006 min
Lab File: BM049987.D
Acq: 21 Apr 2025 16:32

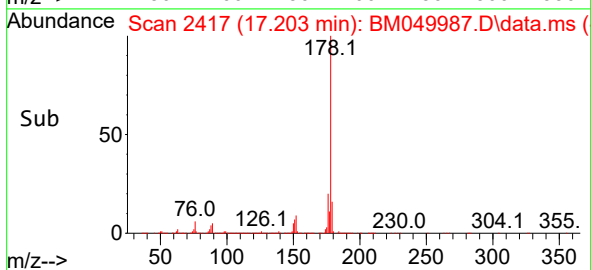
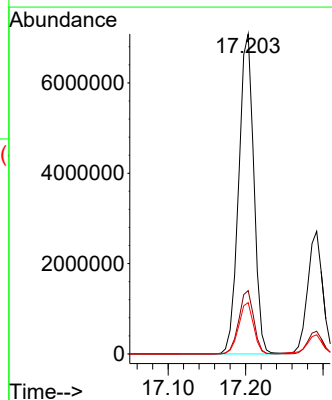
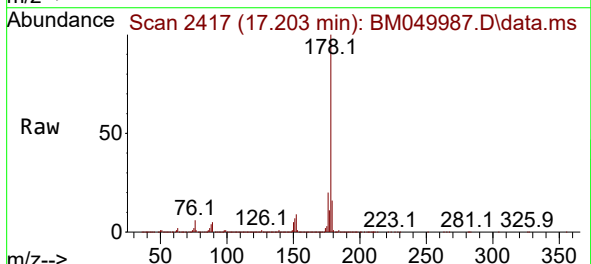
Instrument :
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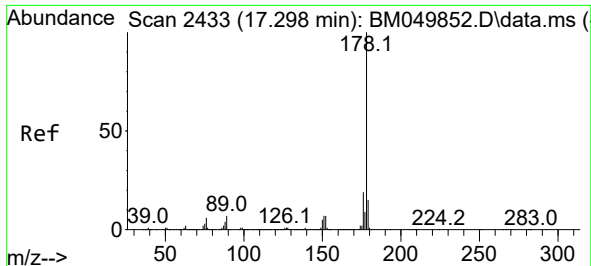
Tgt Ion:188 Resp: 1958359
Ion Ratio Lower Upper
188 100
94 7.1 5.8 8.6
80 7.7 6.4 9.6



#71
Phenanthrene
Concen: 89.523 ng
RT: 17.203 min Scan# 2417
Delta R.T. -0.006 min
Lab File: BM049987.D
Acq: 21 Apr 2025 16:32

Tgt Ion:178 Resp: 9611660
Ion Ratio Lower Upper
178 100
176 19.8 15.4 23.2
179 16.1 12.3 18.5

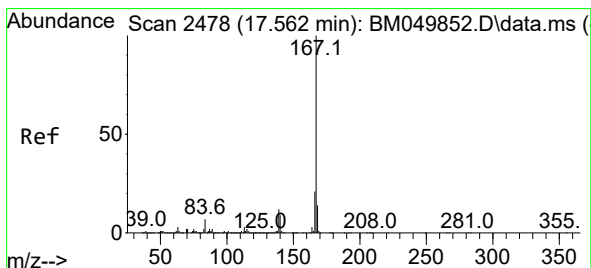
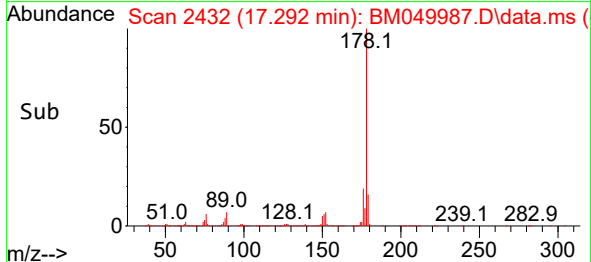
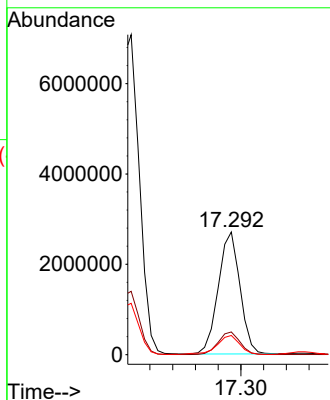
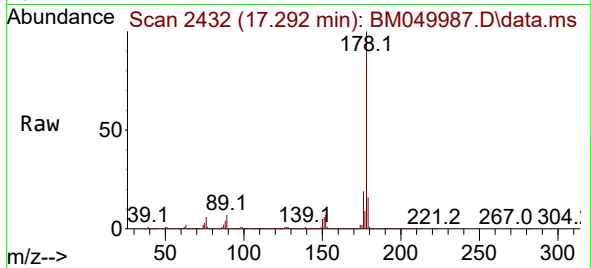




#72
 Anthracene
 Concen: 33.945 ng
 RT: 17.292 min Scan# 2433
 Delta R.T. -0.006 min
 Lab File: BM049987.D
 Acq: 21 Apr 2025 16:32

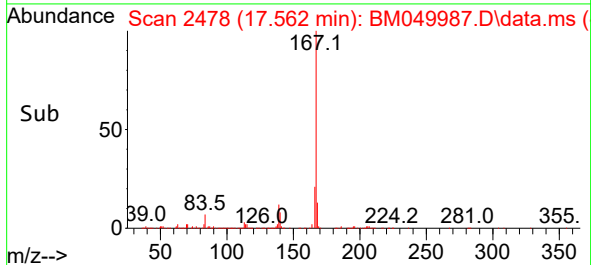
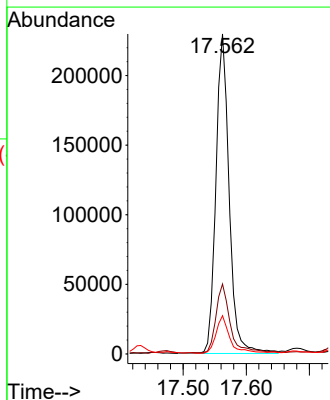
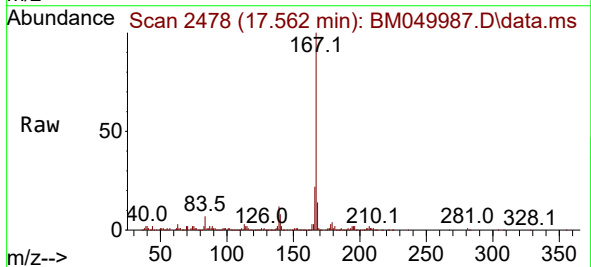
Instrument :
 BNA_M
 ClientSampleId :
 PL-714-COMP-6DL

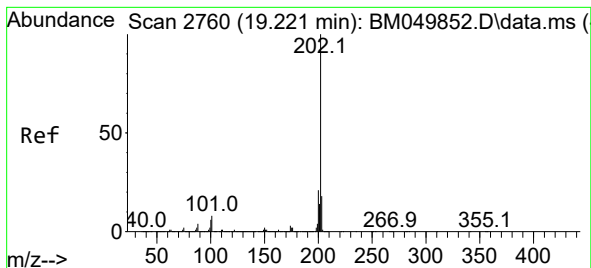
Tgt Ion:178 Resp: 3591612
 Ion Ratio Lower Upper
 178 100
 176 18.5 15.1 22.7
 179 15.7 12.4 18.6



#73
 Carbazole
 Concen: 3.359 ng
 RT: 17.562 min Scan# 2478
 Delta R.T. -0.000 min
 Lab File: BM049987.D
 Acq: 21 Apr 2025 16:32

Tgt Ion:167 Resp: 334734
 Ion Ratio Lower Upper
 167 100
 166 21.9 16.9 25.3
 139 11.9 9.3 13.9





#75

Fluoranthene

Concen: 117.747 ng

RT: 19.215 min Scan# 21

Delta R.T. -0.006 min

Lab File: BM049987.D

Acq: 21 Apr 2025 16:32

Instrument :

BNA_M

ClientSampleId :

PL-714-COMP-6DL

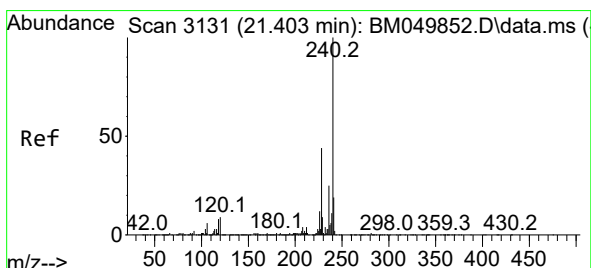
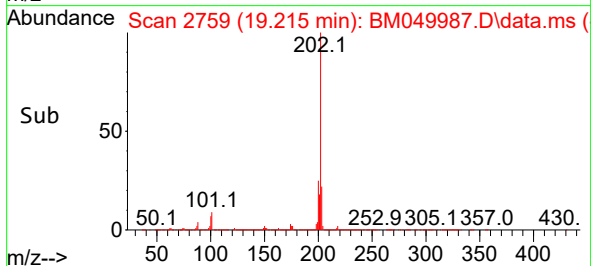
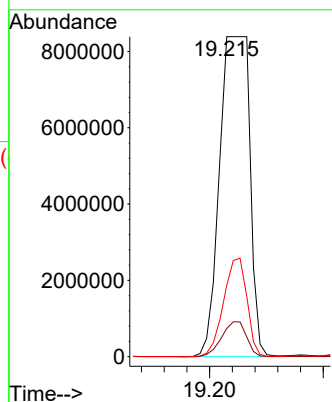
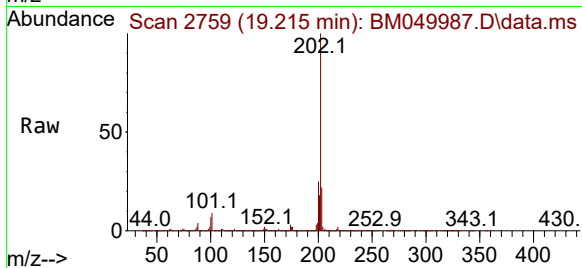
Tgt Ion:202 Resp:15543802

Ion Ratio Lower Upper

202 100

101 8.8 0.0 28.4

203 22.3 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: BM049987.D

Acq: 21 Apr 2025 16:32

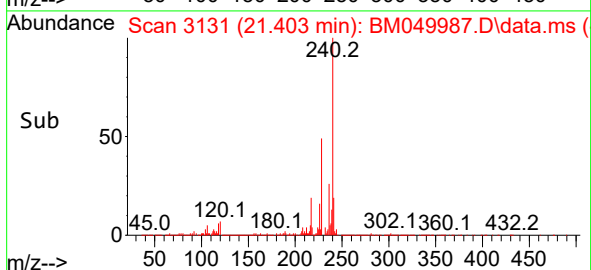
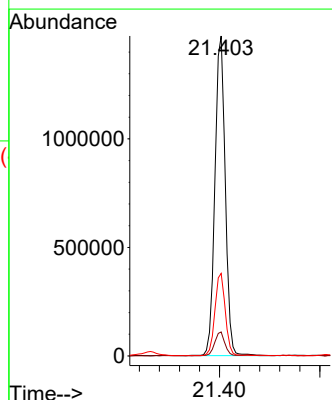
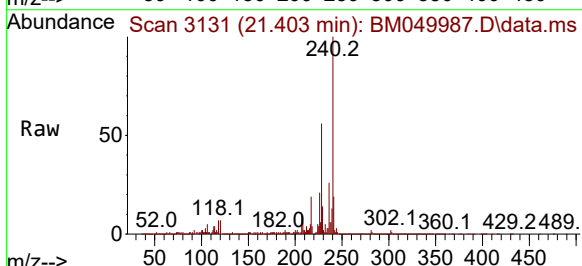
Tgt Ion:240 Resp: 2104484

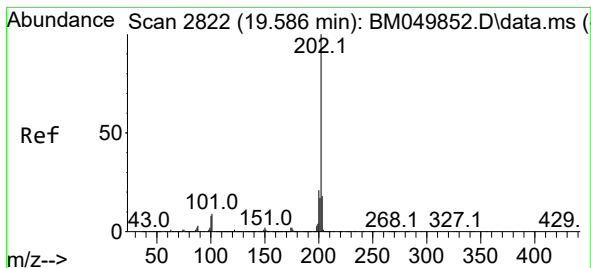
Ion Ratio Lower Upper

240 100

120 7.5 6.9 10.3

236 25.8 20.4 30.6





#78

Pyrene

Concen: 96.278 ng

RT: 19.580 min Scan# 2

Delta R.T. -0.006 min

Lab File: BM049987.D

Acq: 21 Apr 2025 16:32

Instrument :

BNA_M

ClientSampleId :

PL-714-COMP-6DL

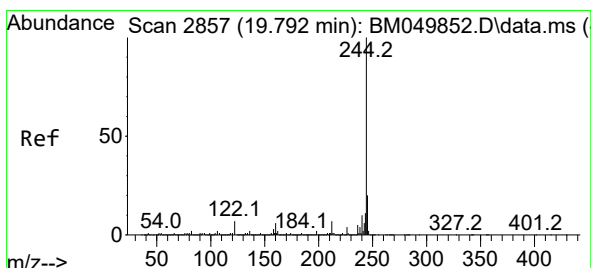
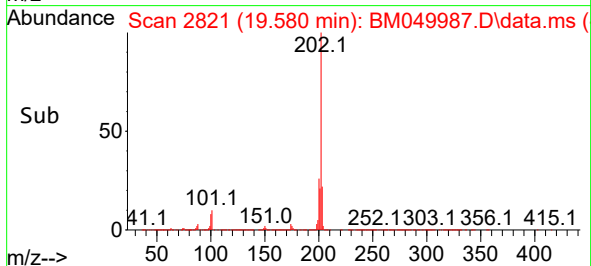
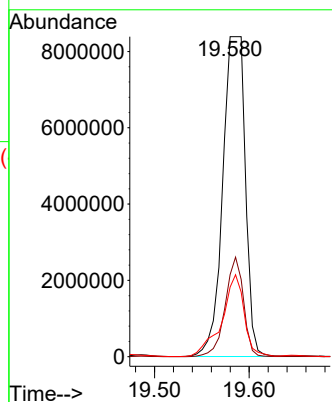
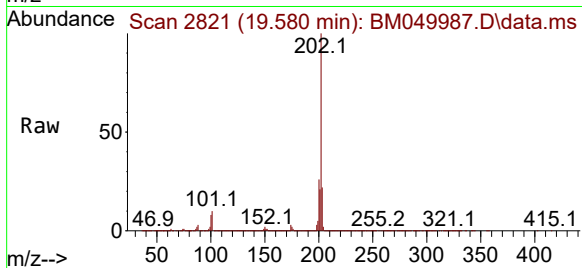
Tgt Ion:202 Resp:13963863

Ion Ratio Lower Upper

202 100

200 25.6 16.5 24.7#

203 21.7 14.0 21.0#



#79

Terphenyl-d14

Concen: 1.386 ng

RT: 19.780 min Scan# 2855

Delta R.T. -0.012 min

Lab File: BM049987.D

Acq: 21 Apr 2025 16:32

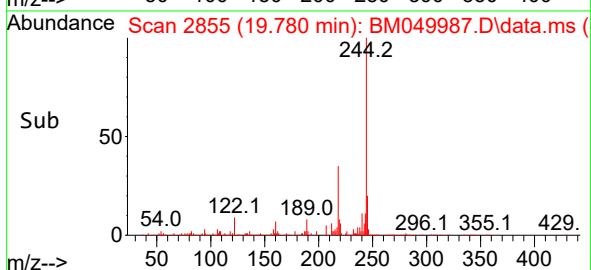
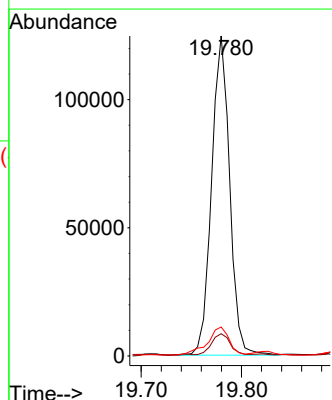
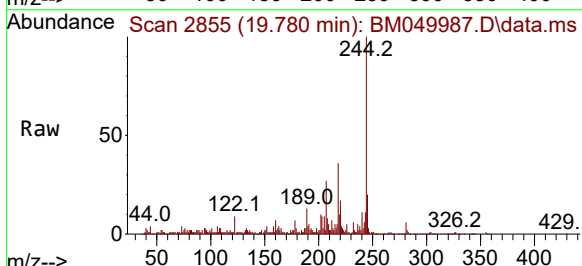
Tgt Ion:244 Resp: 155605

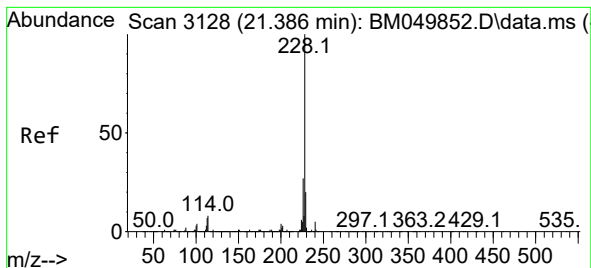
Ion Ratio Lower Upper

244 100

212 6.9 5.5 8.3

122 9.1 5.4 8.0#





#81

Benzo(a)anthracene

Concen: 65.394 ng

RT: 21.386 min Scan# 3128

Delta R.T. -0.000 min

Lab File: BM049987.D

Acq: 21 Apr 2025 16:32

Instrument :

BNA_M

ClientSampleId :

PL-714-COMP-6DL

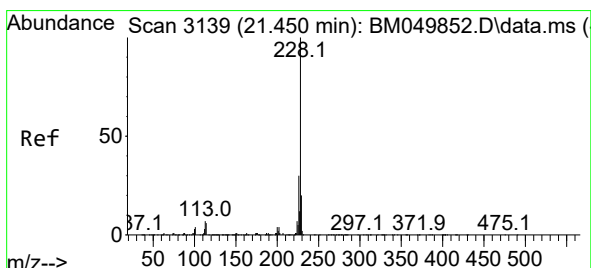
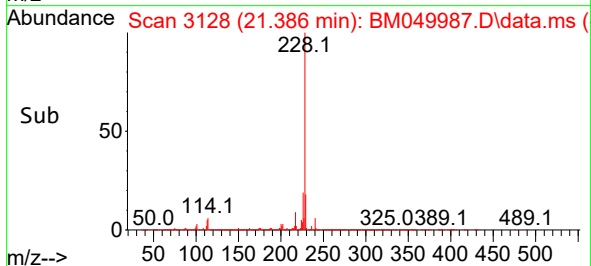
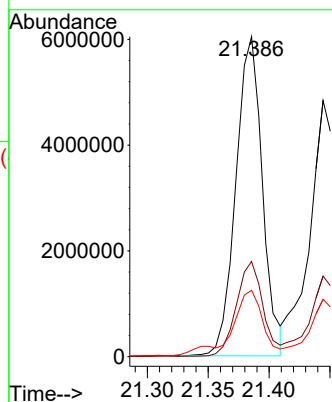
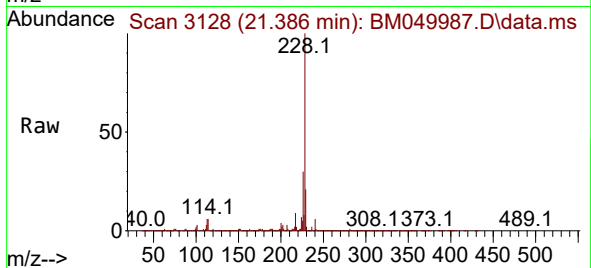
Tgt Ion:228 Resp: 9146285

Ion Ratio Lower Upper

228 100

226 29.8 21.8 32.8

229 20.7 15.8 23.8



#83

Chrysene

Concen: 55.060 ng

RT: 21.444 min Scan# 3138

Delta R.T. -0.006 min

Lab File: BM049987.D

Acq: 21 Apr 2025 16:32

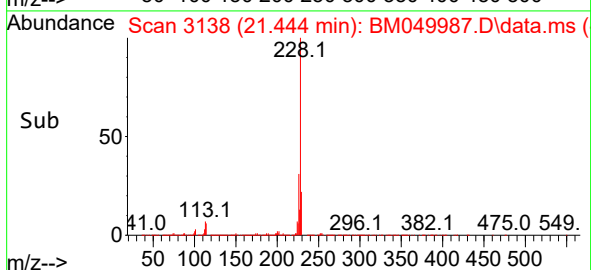
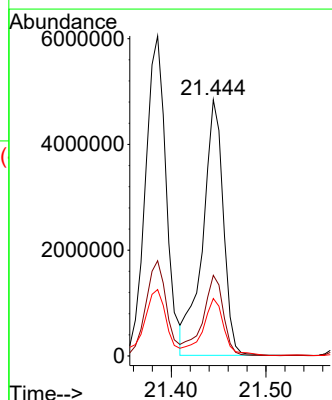
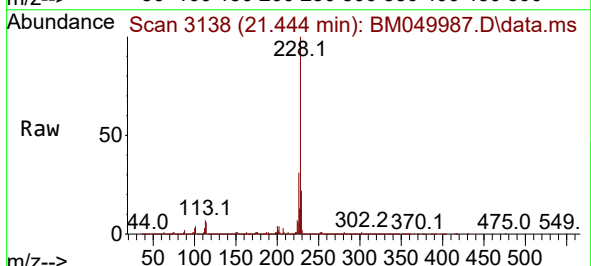
Tgt Ion:228 Resp: 7321297

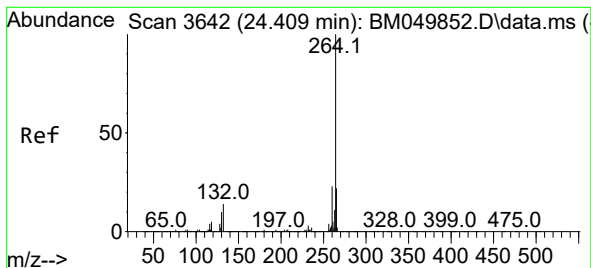
Ion Ratio Lower Upper

228 100

226 31.4 24.1 36.1

229 22.4 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: BM049987.D

Acq: 21 Apr 2025 16:32

Instrument :

BNA_M

ClientSampleId :

PL-714-COMP-6DL

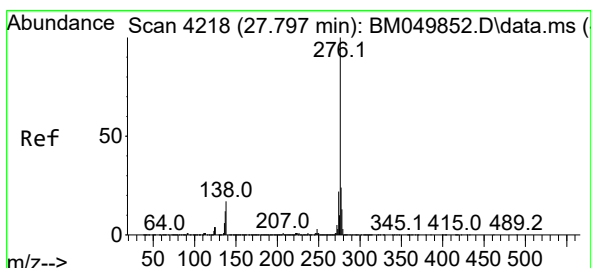
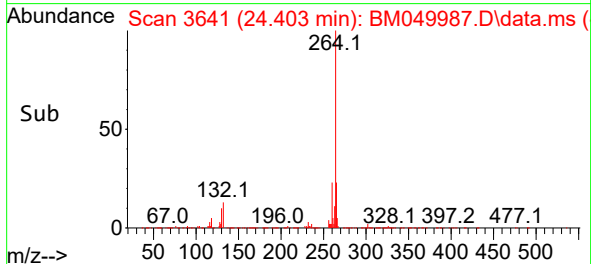
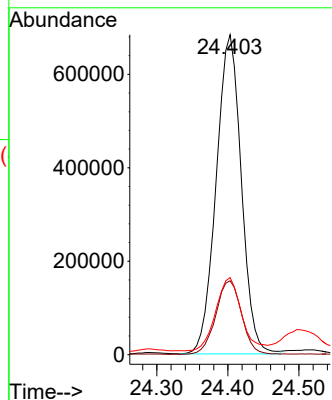
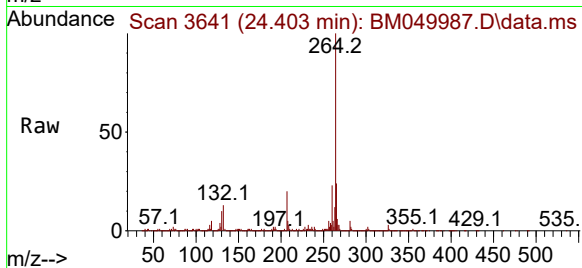
Tgt Ion:264 Resp: 1677914

Ion Ratio Lower Upper

264 100

260 23.1 18.6 28.0

265 24.1 17.8 26.8



#87

Indeno(1,2,3-cd)pyrene

Concen: 22.336 ng

RT: 27.791 min Scan# 4217

Delta R.T. -0.006 min

Lab File: BM049987.D

Acq: 21 Apr 2025 16:32

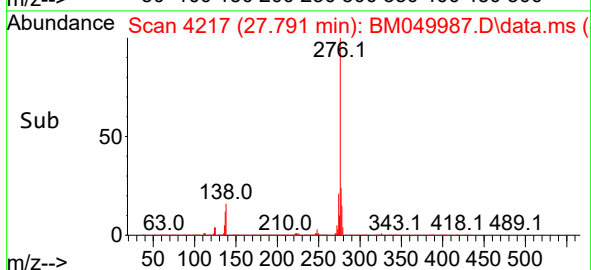
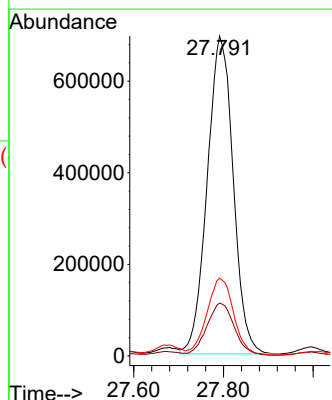
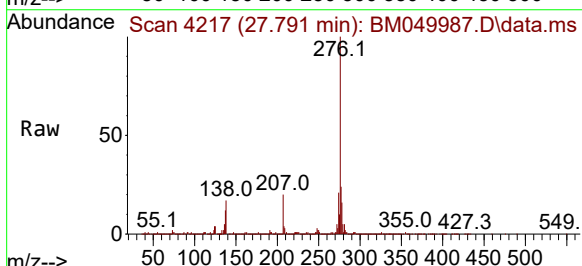
Tgt Ion:276 Resp: 2793624

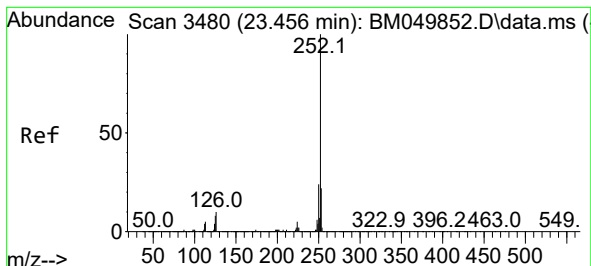
Ion Ratio Lower Upper

276 100

138 17.3 16.8 25.2

277 24.8 20.1 30.1





#88

Benzo(b)fluoranthene

Concen: 69.553 ng

RT: 23.462 min Scan# 3480

Delta R.T. 0.006 min

Lab File: BM049987.D

Acq: 21 Apr 2025 16:32

Instrument :

BNA_M

ClientSampleId :

PL-714-COMP-6DL

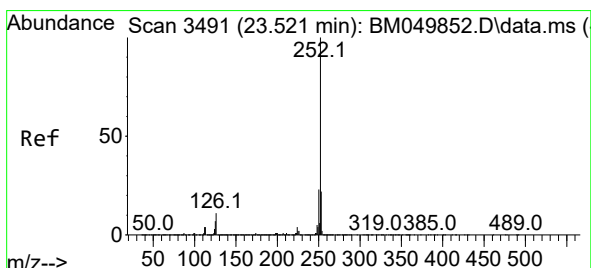
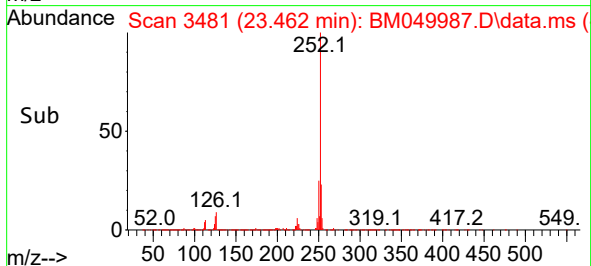
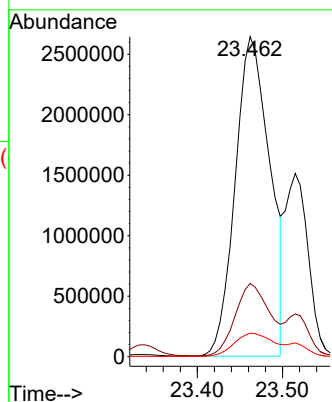
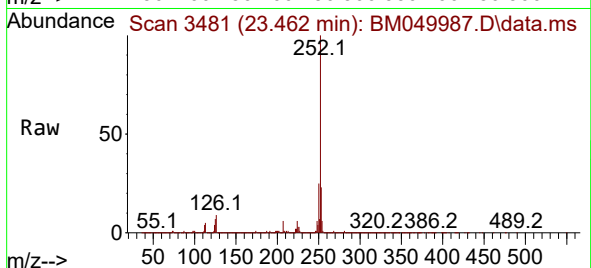
Tgt Ion:252 Resp: 7453416

Ion Ratio Lower Upper

252 100

253 22.8 17.5 26.3

125 7.4 6.2 9.4



#89

Benzo(k)fluoranthene

Concen: 27.122 ng m

RT: 23.515 min Scan# 3490

Delta R.T. -0.006 min

Lab File: BM049987.D

Acq: 21 Apr 2025 16:32

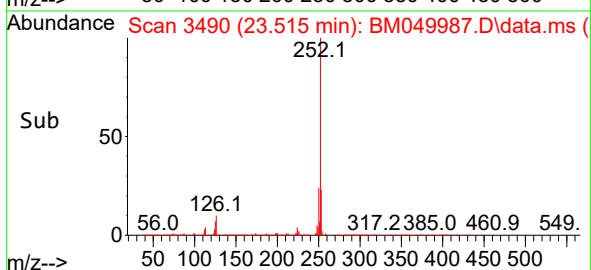
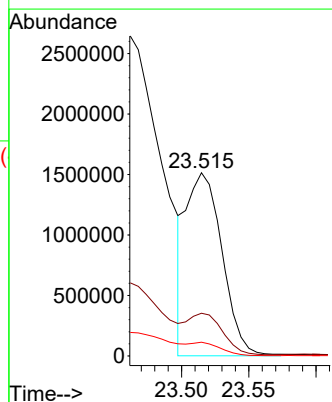
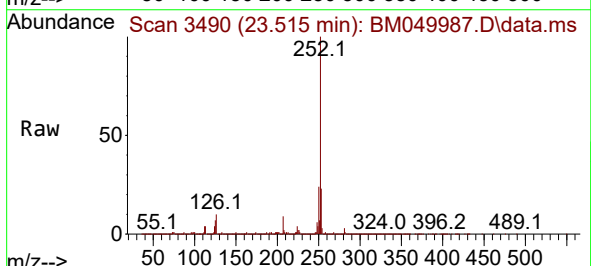
Tgt Ion:252 Resp: 2816588

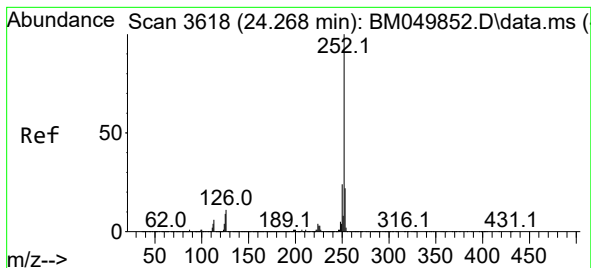
Ion Ratio Lower Upper

252 100

253 23.3 17.4 26.2

125 7.5 5.8 8.8





#90

Benzo(a)pyrene

Concen: 55.194 ng

RT: 24.268 min Scan# 3

Delta R.T. -0.000 min

Lab File: BM049987.D

Acq: 21 Apr 2025 16:32

Instrument :

BNA_M

ClientSampleId :

PL-714-COMP-6DL

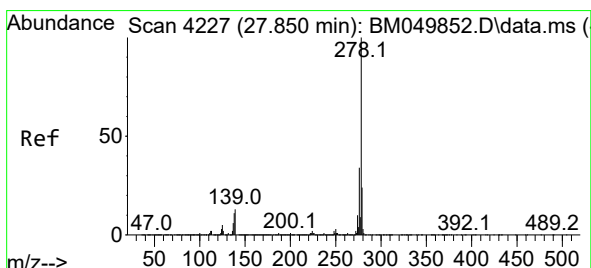
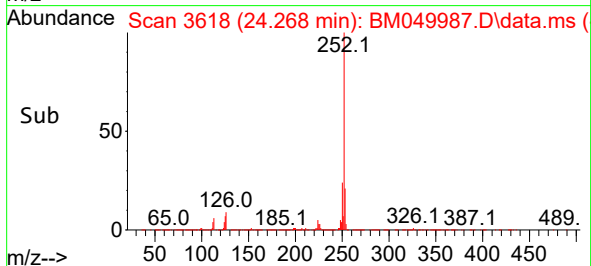
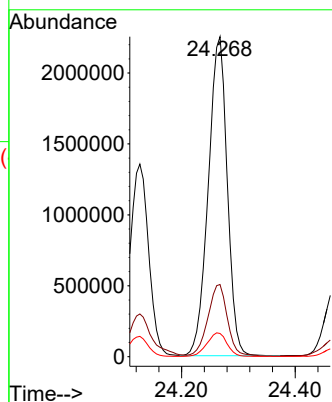
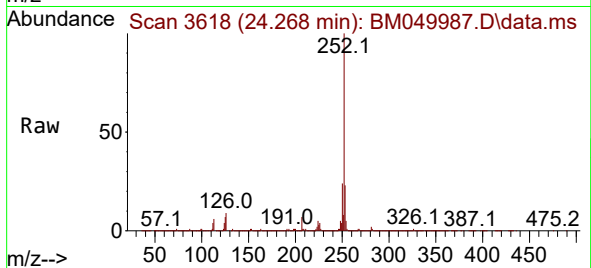
Tgt Ion:252 Resp: 5197391

Ion Ratio Lower Upper

252 100

253 22.5 17.8 26.8

125 7.3 7.0 10.4



#91

Dibenzo(a,h)anthracene

Concen: 7.620 ng

RT: 27.826 min Scan# 4223

Delta R.T. -0.024 min

Lab File: BM049987.D

Acq: 21 Apr 2025 16:32

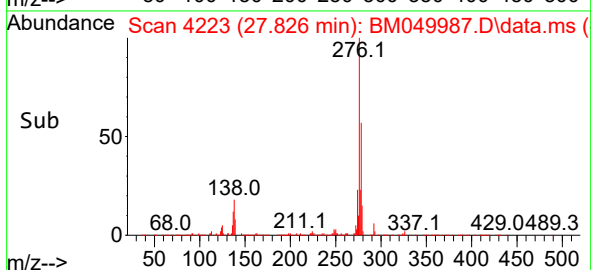
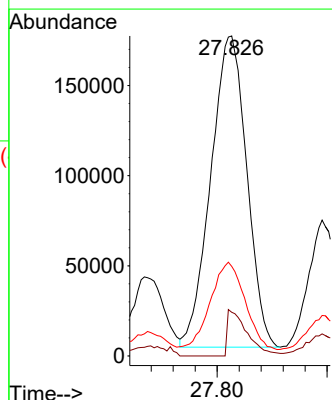
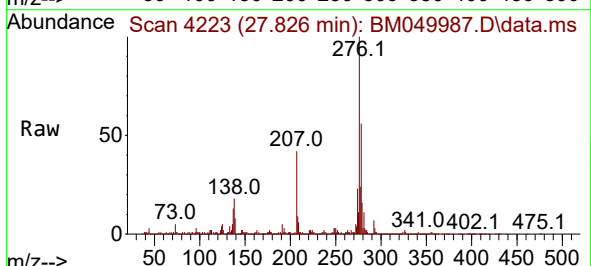
Tgt Ion:278 Resp: 785075

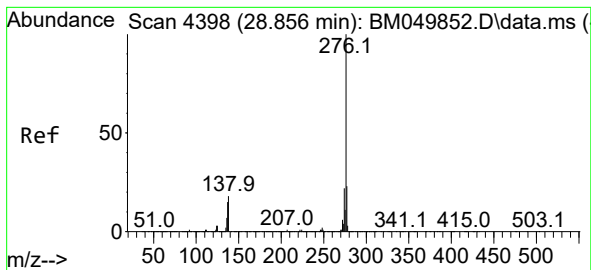
Ion Ratio Lower Upper

278 100

139 13.6 10.6 15.8

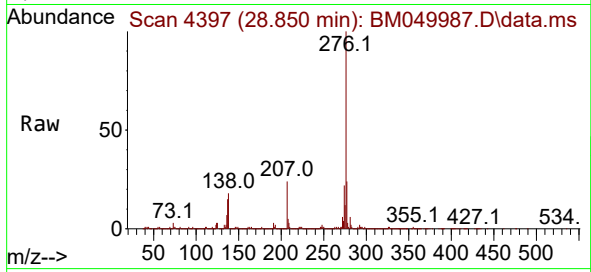
279 28.0 19.1 28.7





#92
Benzo(g,h,i)perylene
Concen: 23.406 ng
RT: 28.850 min Scan# 41
Delta R.T. -0.006 min
Lab File: BM049987.D
Acq: 21 Apr 2025 16:32

Instrument :
BNA_M
ClientSampleId :
PL-714-COMP-6DL



Tgt Ion:276 Resp: 2464094
Ion Ratio Lower Upper
276 100
277 24.1 18.7 28.1
138 17.7 14.6 21.8

