

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF070925\
 Data File : BF143066.D
 Acq On : 09 Jul 2025 20:04
 Operator : RC/JU
 Sample : Q2527-01 5X
 Misc :
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 AR520-0015

Quant Time: Jul 10 00:57:41 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF061925.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Jun 24 05:28:21 2025
 Response via : Initial Calibration

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

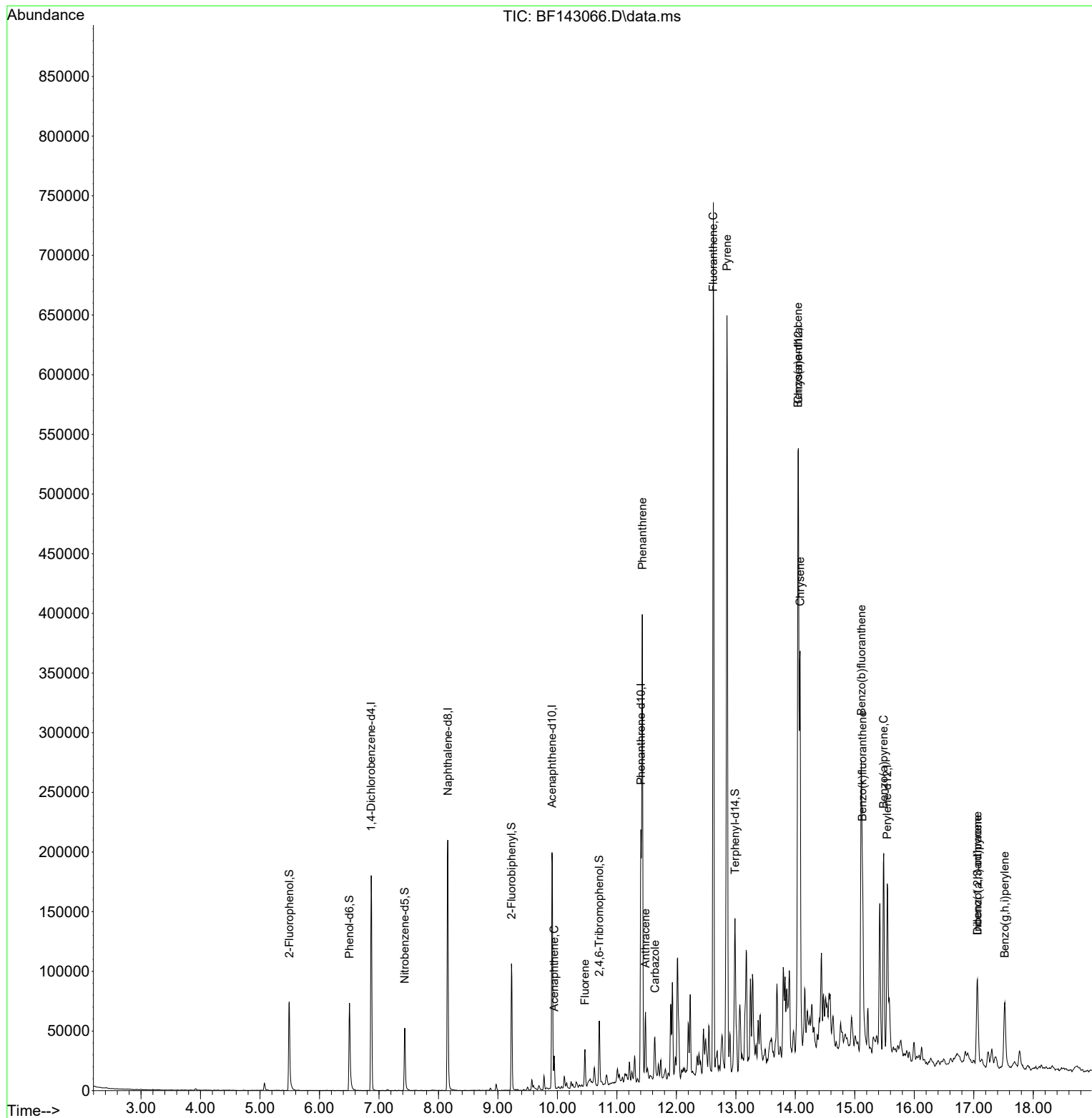
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.869	152	40202	20.000	ng	-0.01
21) Naphthalene-d8	8.157	136	141905	20.000	ng	-0.01
39) Acenaphthene-d10	9.910	164	62014	20.000	ng	-0.01
64) Phenanthrene-d10	11.404	188	105750	20.000	ng	0.00
76) Chrysene-d12	14.051	240	115666	20.000	ng	0.00
86) Perylene-d12	15.545	264	81456	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.493	112	37248	15.426	ng	0.00
7) Phenol-d6	6.504	99	42434	14.895	ng	0.00
23) Nitrobenzene-d5	7.434	82	25864	9.997	ng	-0.01
42) 2,4,6-Tribromophenol	10.704	330	8255	12.935	ng	-0.01
45) 2-Fluorobiphenyl	9.228	172	51602	10.931	ng	-0.02
79) Terphenyl-d14	12.986	244	54280	6.484	ng	-0.01
Target Compounds						Qvalue
52) Acenaphthene	9.945	154	8408	2.277	ng	97
58) Fluorene	10.463	166	12634	3.055	ng	98
71) Phenanthrene	11.428	178	207152	36.162	ng	100
72) Anthracene	11.480	178	34318	5.841	ng	98
73) Carbazole	11.639	167	17764	3.504	ng	96
75) Fluoranthene	12.622	202	417029	76.707	ng	99
78) Pyrene	12.851	202	374859	34.575	ng	98
81) Benzo(a)anthracene	14.045	228	208395	26.707	ng	99
83) Chrysene	14.080	228	167052	23.992	ng	97
87) Indeno(1,2,3-cd)pyrene	17.062	276	51112	8.238	ng	96
88) Benzo(b)fluoranthene	15.110	252	171162m	36.314	ng	
89) Benzo(k)fluoranthene	15.127	252	49927m	11.322	ng	
90) Benzo(a)pyrene	15.486	252	102595	22.531	ng	98
91) Dibenzo(a,h)anthracene	17.062	278	13719	2.721	ng	94
92) Benzo(g,h,i)perylene	17.521	276	49254	9.798	ng	98

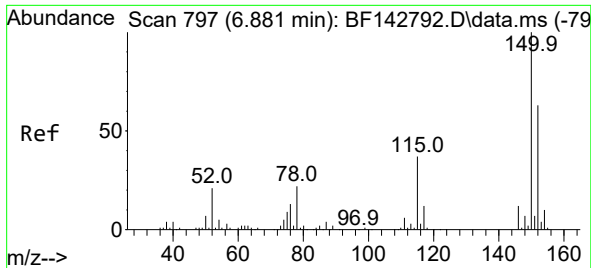
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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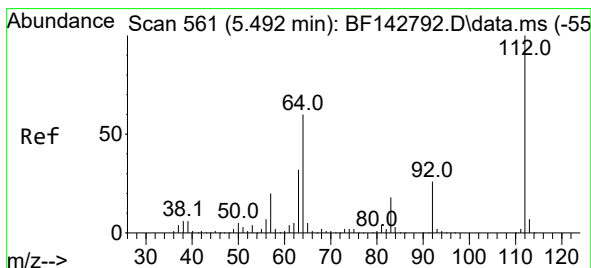
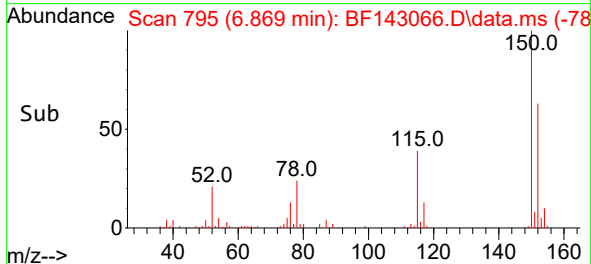
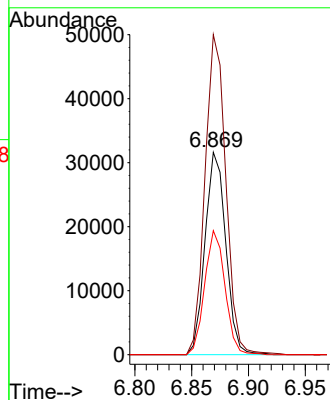
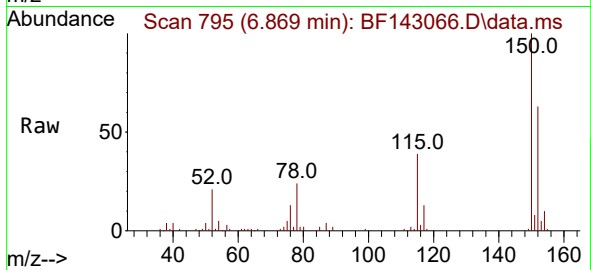




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.869 min Scan# 797
Delta R.T. -0.012 min
Lab File: BF143066.D
Acq: 09 Jul 2025 20:04

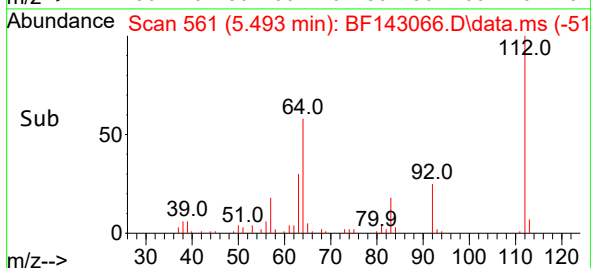
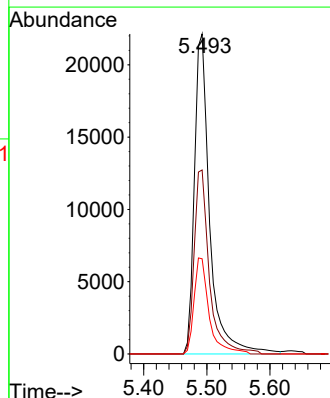
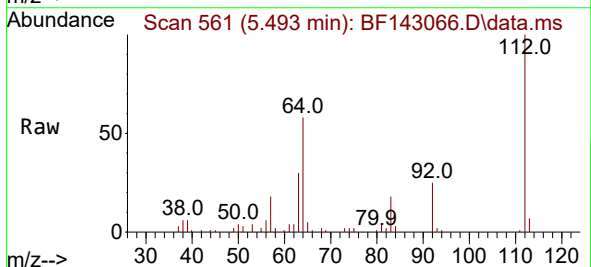
Instrument :
BNA_F
ClientSampleId :
AR520-0015

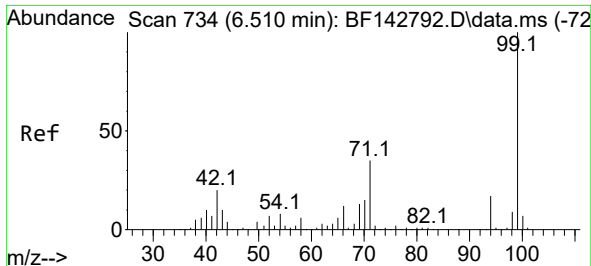
Tgt Ion:152 Resp: 40202
Ion Ratio Lower Upper
152 100
150 158.1 127.2 190.8
115 61.3 46.6 69.8



#5
2-Fluorophenol
Concen: 15.426 ng
RT: 5.493 min Scan# 561
Delta R.T. 0.001 min
Lab File: BF143066.D
Acq: 09 Jul 2025 20:04

Tgt Ion:112 Resp: 37248
Ion Ratio Lower Upper
112 100
64 57.5 48.2 72.2
63 29.8 25.7 38.5

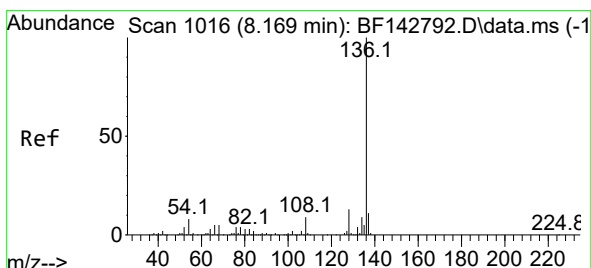
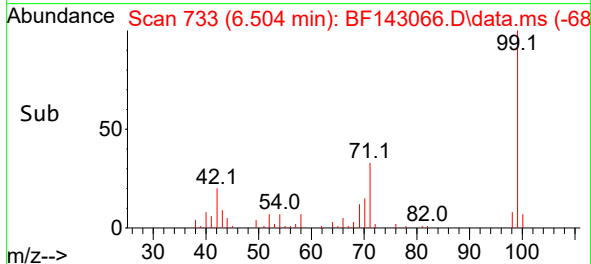
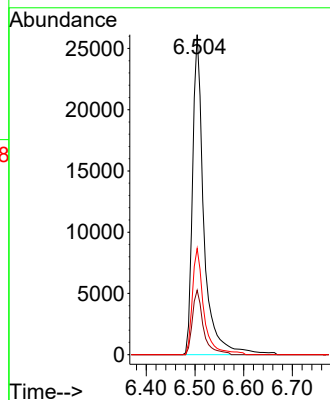
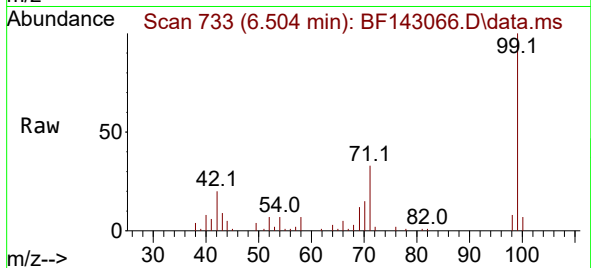




#7
Phenol-d6
Concen: 14.895 ng
RT: 6.504 min Scan# 71
Delta R.T. -0.006 min
Lab File: BF143066.D
Acq: 09 Jul 2025 20:04

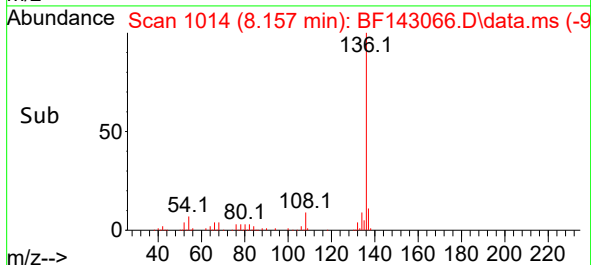
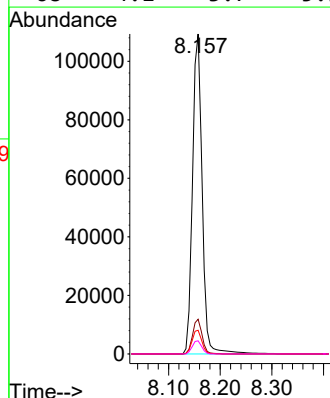
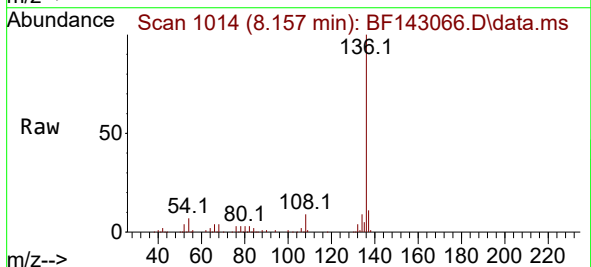
Instrument :
BNA_F
ClientSampleId :
AR520-0015

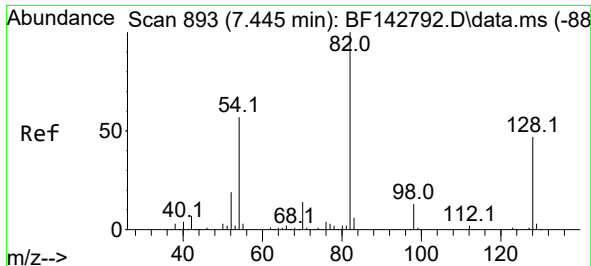
Tgt Ion: 99 Resp: 42434
Ion Ratio Lower Upper
99 100
42 20.2 15.9 23.9
71 33.2 27.8 41.8



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.157 min Scan# 1014
Delta R.T. -0.012 min
Lab File: BF143066.D
Acq: 09 Jul 2025 20:04

Tgt Ion: 136 Resp: 141905
Ion Ratio Lower Upper
136 100
137 10.9 8.4 12.6
54 7.4 6.3 9.5
68 4.1 3.7 5.5





#23

Nitrobenzene-d5

Concen: 9.997 ng

RT: 7.434 min Scan# 89

Delta R.T. -0.011 min

Lab File: BF143066.D

Acq: 09 Jul 2025 20:04

Instrument :

BNA_F

ClientSampleId :

AR520-0015

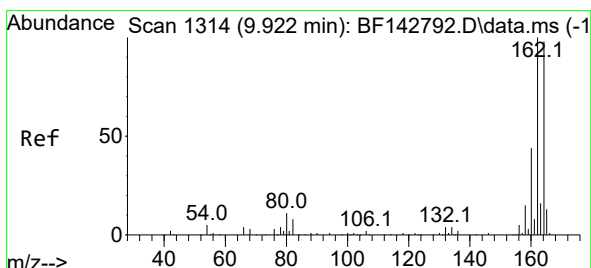
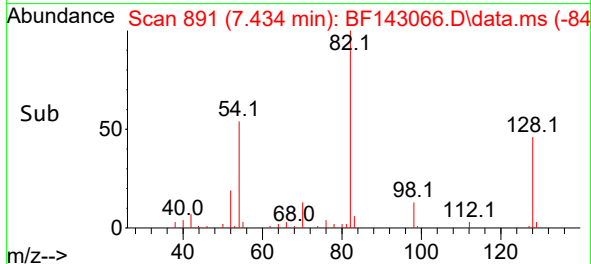
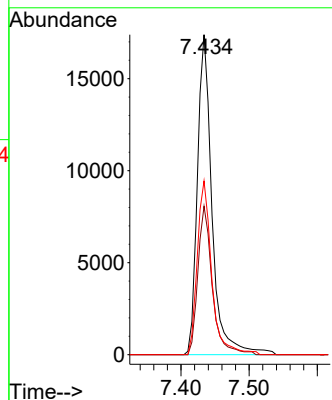
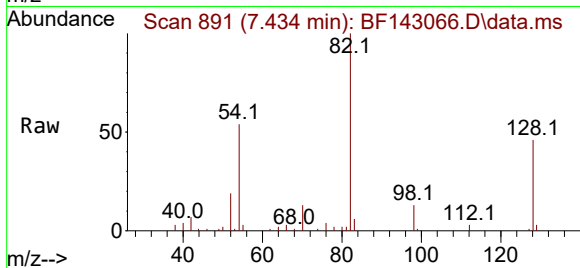
Tgt Ion: 82 Resp: 25864

Ion Ratio Lower Upper

82 100

128 46.4 37.7 56.5

54 54.3 45.7 68.5



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.910 min Scan# 1312

Delta R.T. -0.012 min

Lab File: BF143066.D

Acq: 09 Jul 2025 20:04

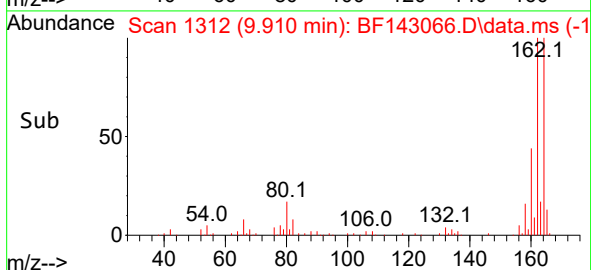
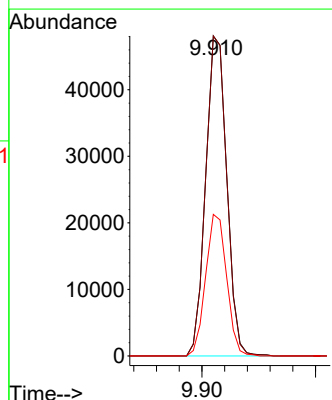
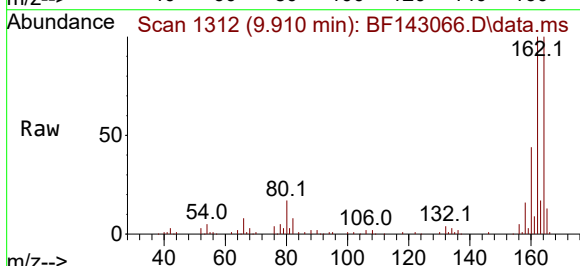
Tgt Ion:164 Resp: 62014

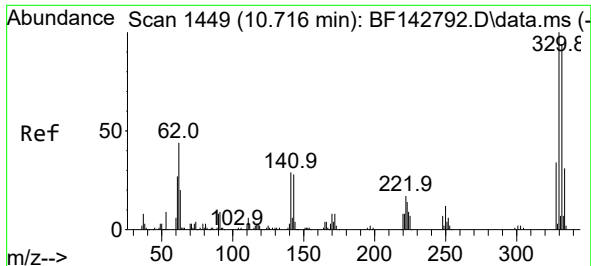
Ion Ratio Lower Upper

164 100

162 100.0 81.8 122.8

160 44.3 36.0 54.0





#42

2,4,6-Tribromophenol

Concen: 12.935 ng

RT: 10.704 min Scan# 1449

Delta R.T. -0.012 min

Lab File: BF143066.D

Acq: 09 Jul 2025 20:04

Instrument :

BNA_F

ClientSampleId :

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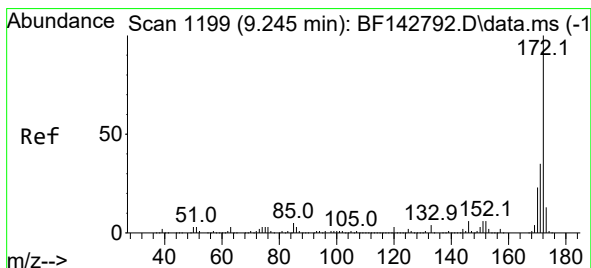
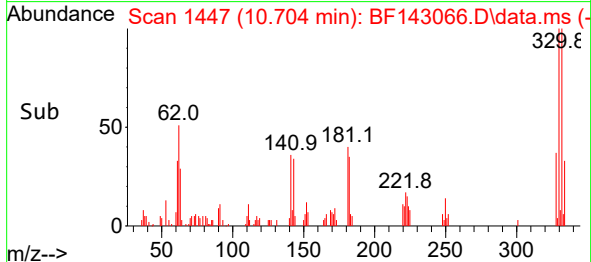
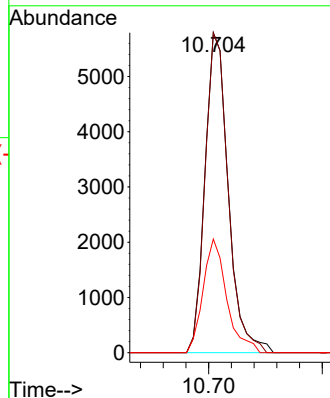
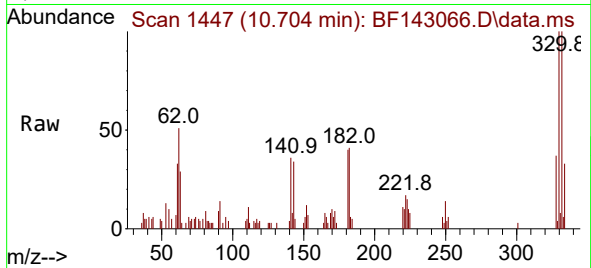
Tgt Ion:330 Resp: 8255

Ion Ratio Lower Upper

330 100

332 98.3 75.0 112.6

141 36.1 25.3 37.9



#45

2-Fluorobiphenyl

Concen: 10.931 ng

RT: 9.228 min Scan# 1196

Delta R.T. -0.017 min

Lab File: BF143066.D

Acq: 09 Jul 2025 20:04

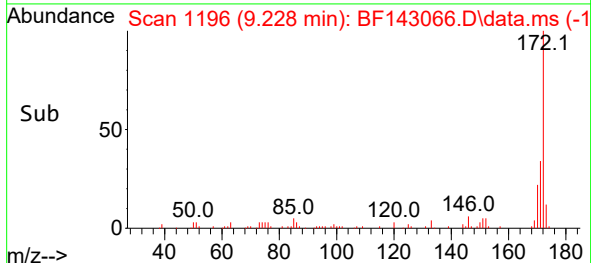
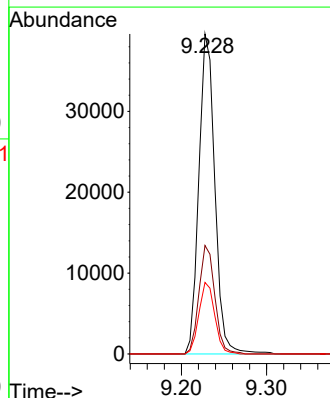
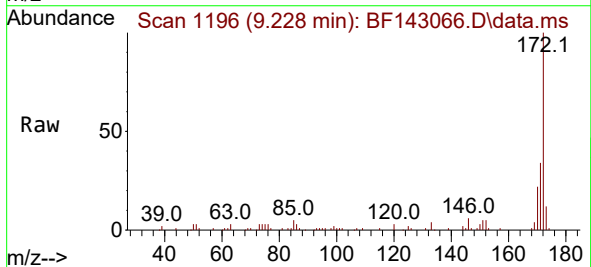
Tgt Ion:172 Resp: 51602

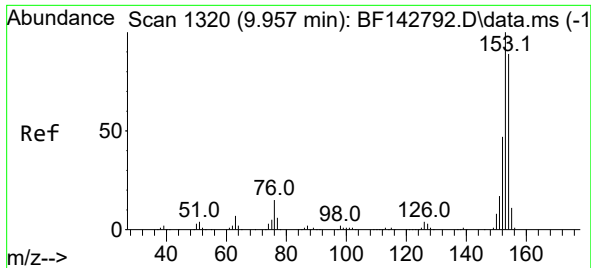
Ion Ratio Lower Upper

172 100

171 33.9 28.2 42.4

170 22.4 18.5 27.7

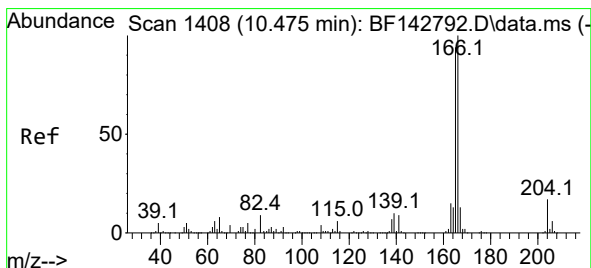
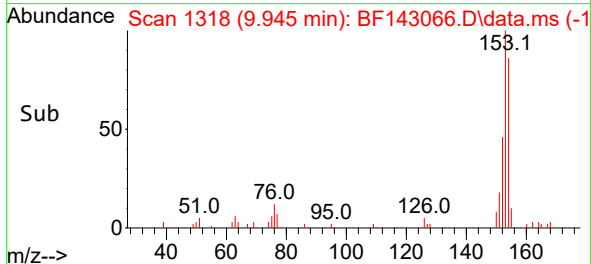
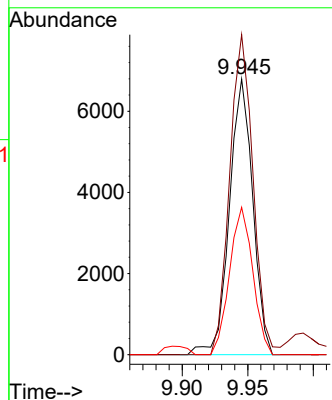
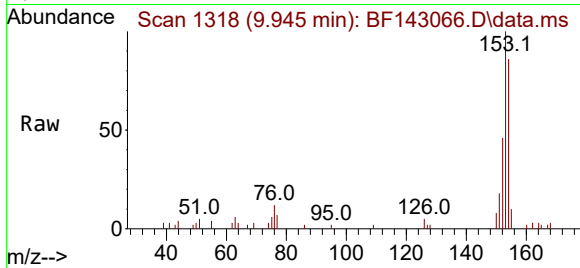




#52
Acenaphthene
Concen: 2.277 ng
RT: 9.945 min Scan# 11
Delta R.T. -0.012 min
Lab File: BF143066.D
Acq: 09 Jul 2025 20:04

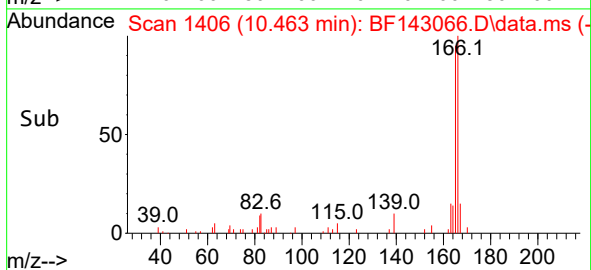
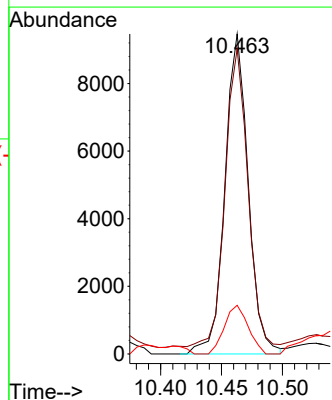
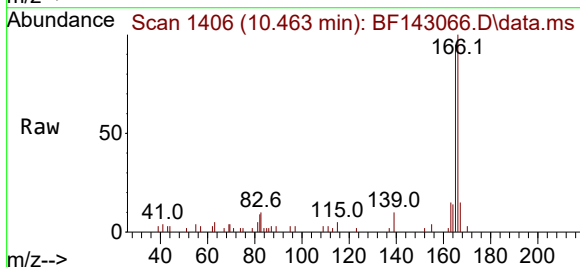
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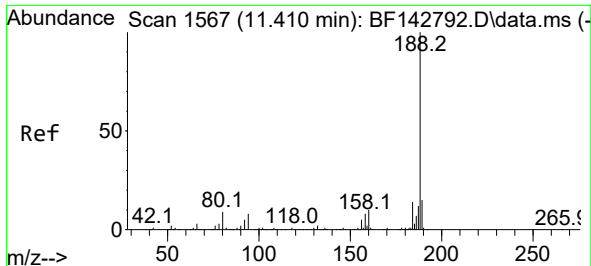
Tgt Ion:154 Resp: 8408
Ion Ratio Lower Upper
154 100
153 116.1 90.0 135.0
152 53.5 41.9 62.9



#58
Fluorene
Concen: 3.055 ng
RT: 10.463 min Scan# 1406
Delta R.T. -0.012 min
Lab File: BF143066.D
Acq: 09 Jul 2025 20:04

Tgt Ion:166 Resp: 12634
Ion Ratio Lower Upper
166 100
165 95.3 75.2 112.8
167 15.2 10.6 15.8

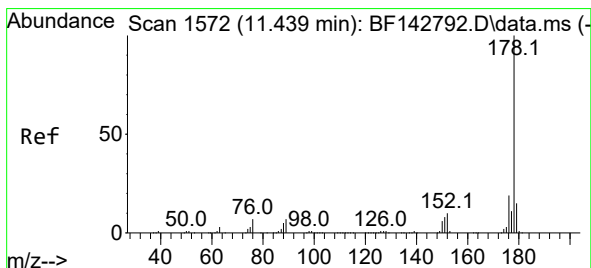
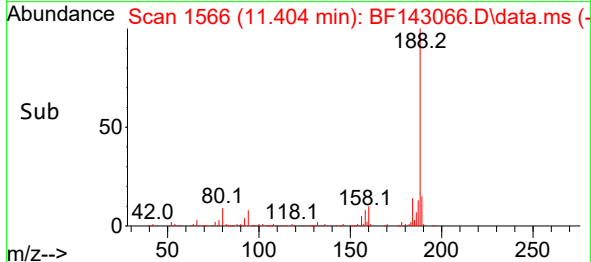
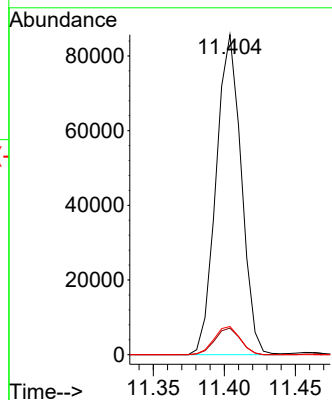
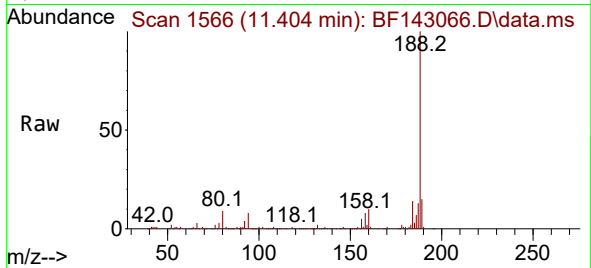




#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.404 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF143066.D
Acq: 09 Jul 2025 20:04

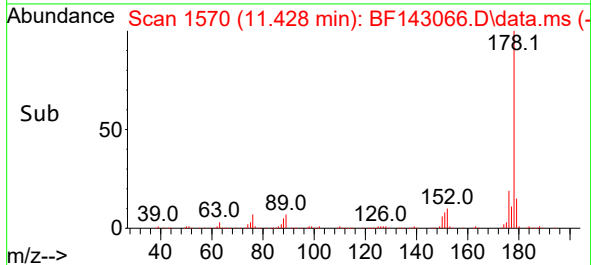
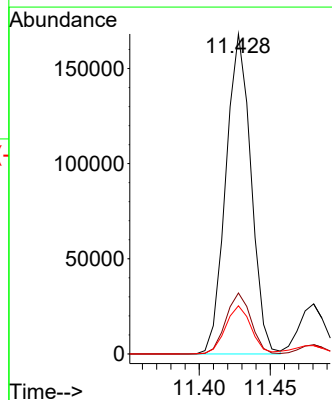
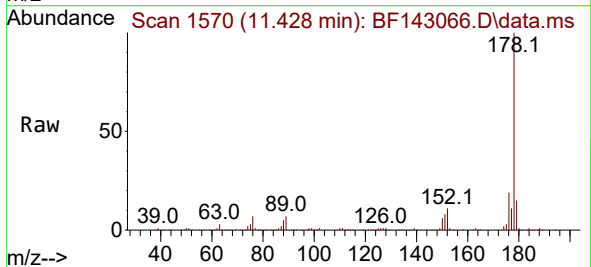
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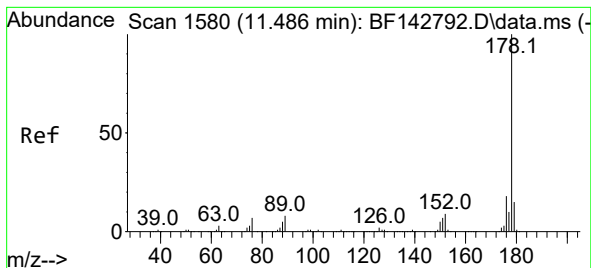
Tgt Ion:188 Resp: 105750
Ion Ratio Lower Upper
188 100
94 8.3 6.7 10.1
80 8.8 6.9 10.3



#71
Phenanthrene
Concen: 36.162 ng
RT: 11.428 min Scan# 1570
Delta R.T. -0.012 min
Lab File: BF143066.D
Acq: 09 Jul 2025 20:04

Tgt Ion:178 Resp: 207152
Ion Ratio Lower Upper
178 100
176 19.1 15.1 22.7
179 15.1 12.0 18.0





#72

Anthracene

Concen: 5.841 ng

RT: 11.480 min Scan# 11

Delta R.T. -0.006 min

Lab File: BF143066.D

Acq: 09 Jul 2025 20:04

Instrument :

BNA_F

ClientSampleId :

AR520-0015

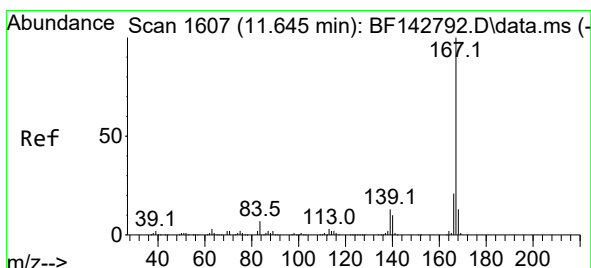
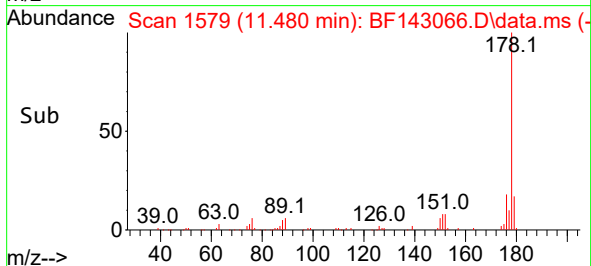
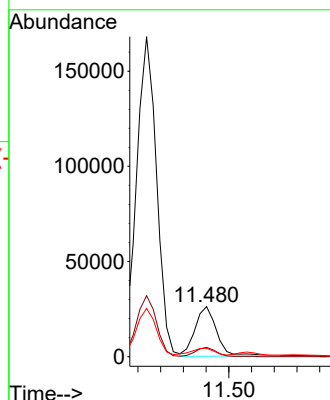
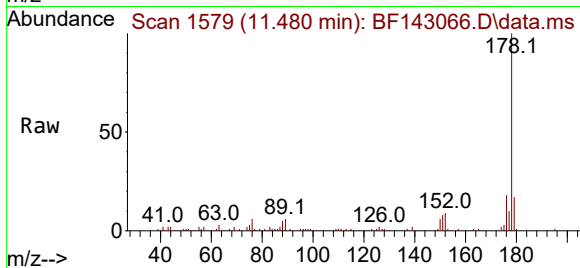
Tgt Ion:178 Resp: 34318

Ion Ratio Lower Upper

178 100

176 18.4 14.6 21.8

179 16.7 12.4 18.6



#73

Carbazole

Concen: 3.504 ng

RT: 11.639 min Scan# 1606

Delta R.T. -0.006 min

Lab File: BF143066.D

Acq: 09 Jul 2025 20:04

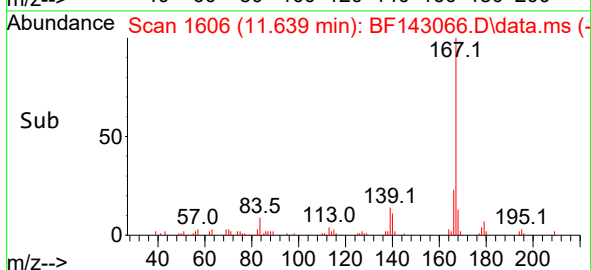
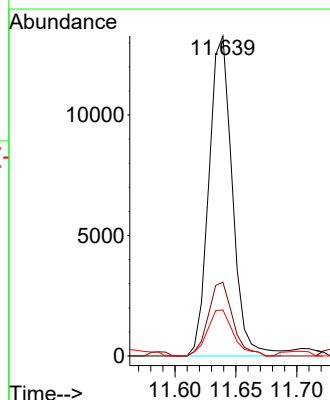
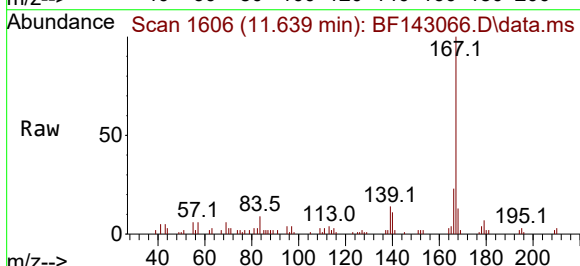
Tgt Ion:167 Resp: 17764

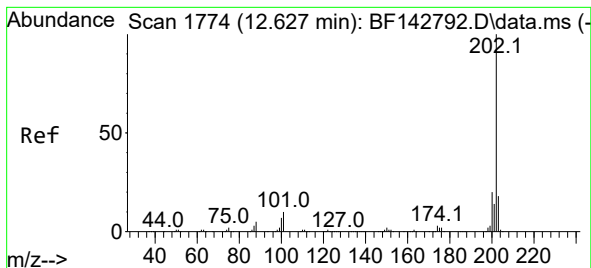
Ion Ratio Lower Upper

167 100

166 23.0 17.0 25.4

139 14.4 10.2 15.2





#75

Fluoranthene

Concen: 76.707 ng

RT: 12.622 min Scan# 11

Delta R.T. -0.006 min

Lab File: BF143066.D

Acq: 09 Jul 2025 20:04

Instrument :

BNA_F

ClientSampleId :

AR520-0015

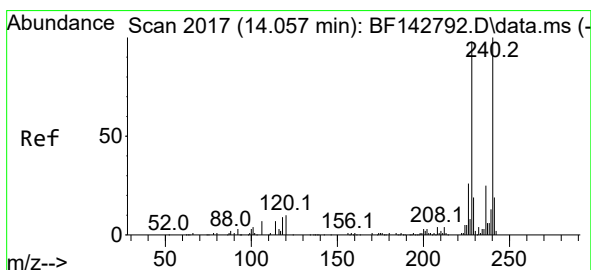
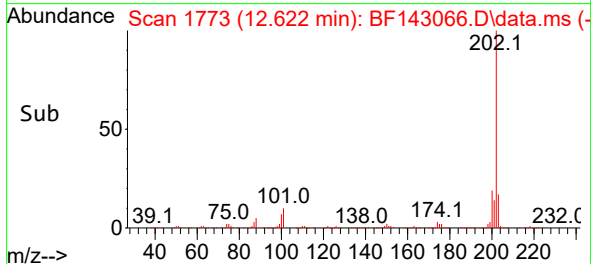
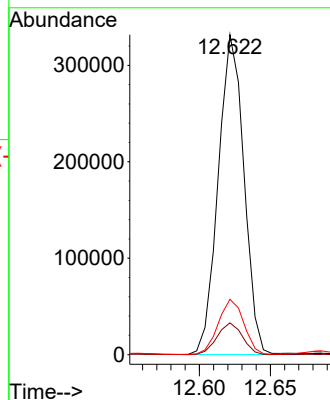
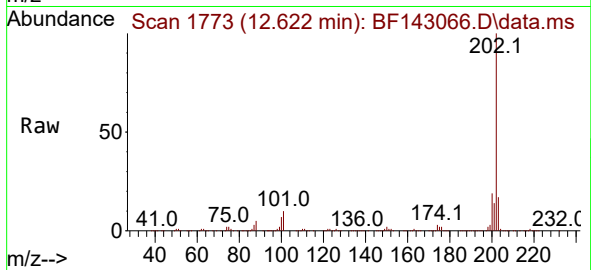
Tgt Ion:202 Resp: 417029

Ion Ratio Lower Upper

202 100

101 10.0 0.0 29.7

203 17.3 0.0 37.5



#76

Chrysene-d12

Concen: 20.000 ng

RT: 14.051 min Scan# 2016

Delta R.T. -0.006 min

Lab File: BF143066.D

Acq: 09 Jul 2025 20:04

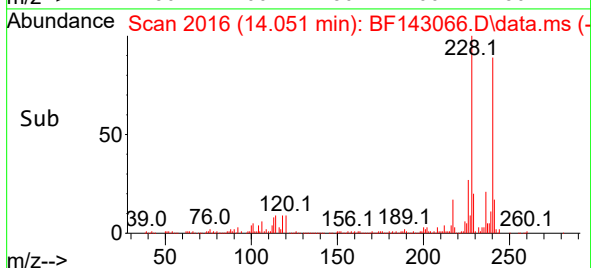
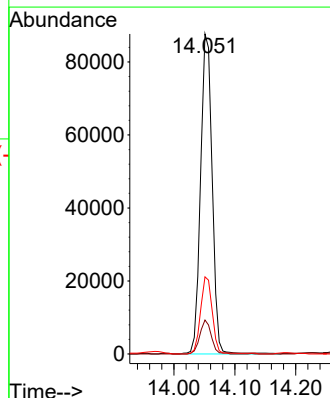
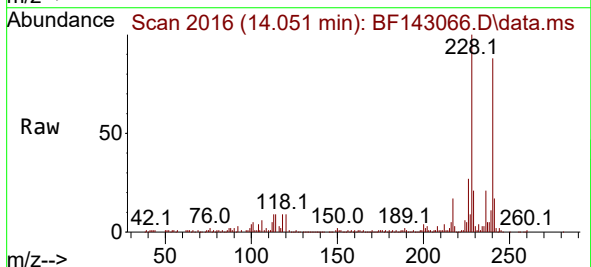
Tgt Ion:240 Resp: 115666

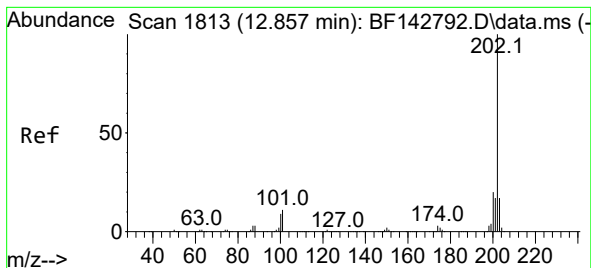
Ion Ratio Lower Upper

240 100

120 10.6 8.2 12.2

236 24.1 19.8 29.8





#78

Pyrene

Concen: 34.575 ng

RT: 12.851 min Scan# 1812

Delta R.T. -0.006 min

Lab File: BF143066.D

Acq: 09 Jul 2025 20:04

Instrument :

BNA_F

ClientSampleId :

AR520-0015

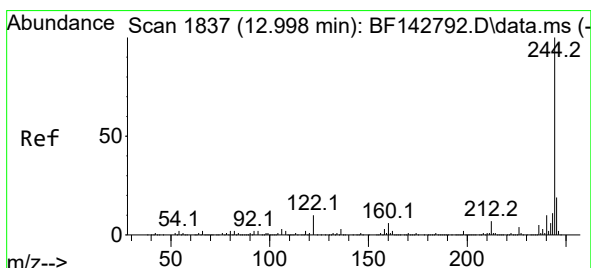
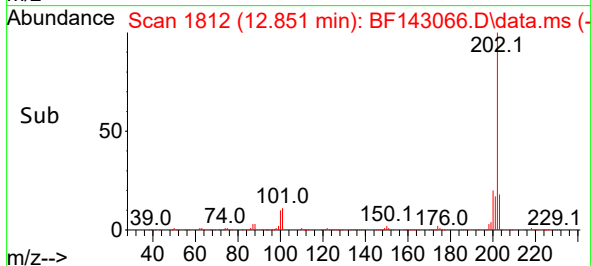
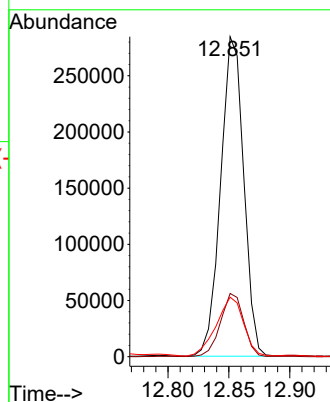
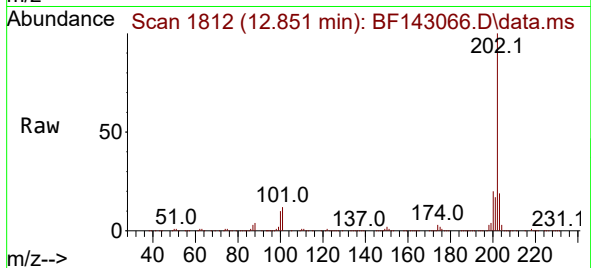
Tgt Ion:202 Resp: 374859

Ion Ratio Lower Upper

202 100

200 19.8 15.7 23.5

203 18.6 13.8 20.6



#79

Terphenyl-d14

Concen: 6.484 ng

RT: 12.986 min Scan# 1835

Delta R.T. -0.012 min

Lab File: BF143066.D

Acq: 09 Jul 2025 20:04

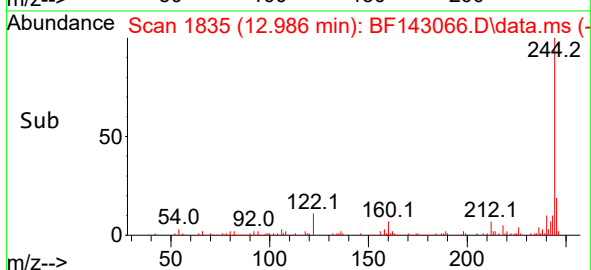
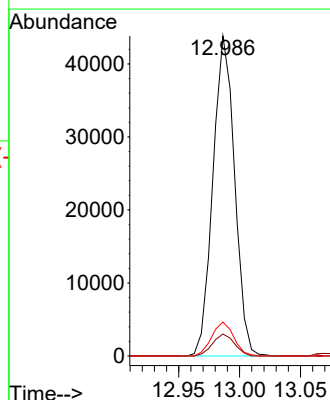
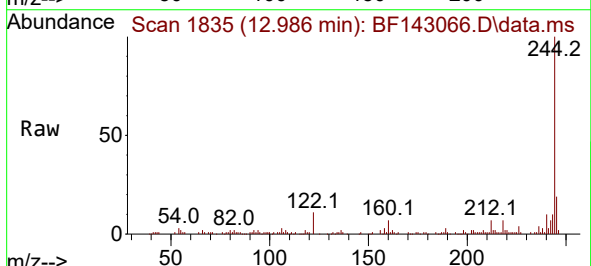
Tgt Ion:244 Resp: 54280

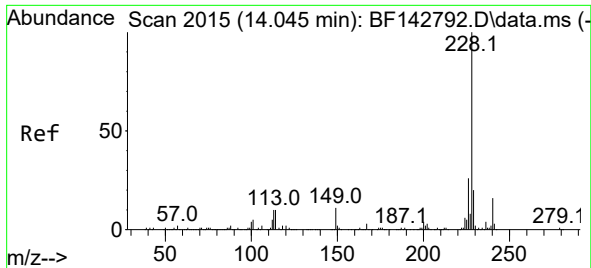
Ion Ratio Lower Upper

244 100

212 6.9 5.4 8.0

122 10.6 8.2 12.2

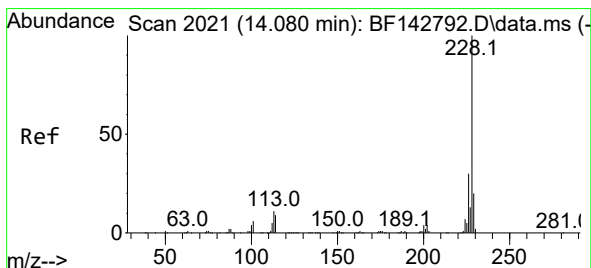
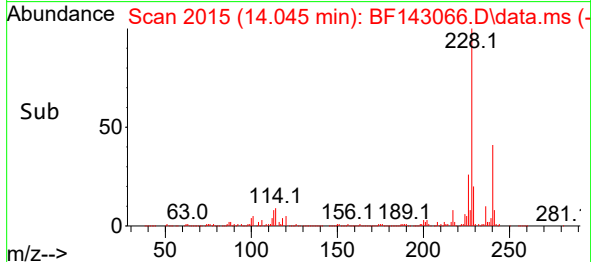
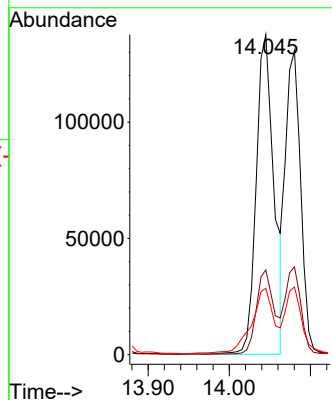
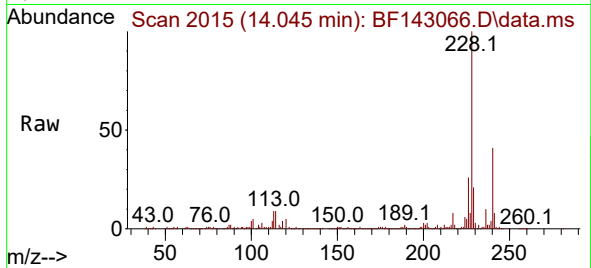




#81
Benzo(a)anthracene
Concen: 26.707 ng
RT: 14.045 min Scan# 2015
Delta R.T. 0.000 min
Lab File: BF143066.D
Acq: 09 Jul 2025 20:04

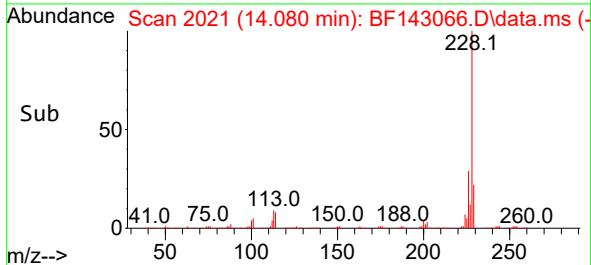
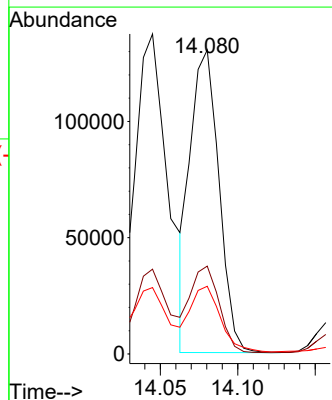
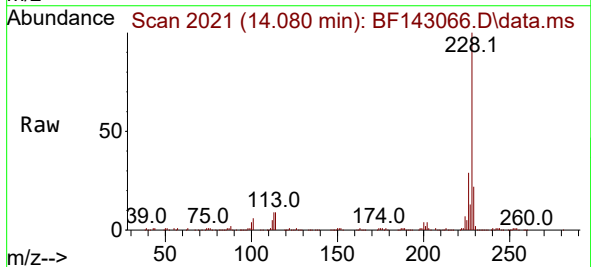
Instrument :
BNA_F
ClientSampleId :
AR520-0015

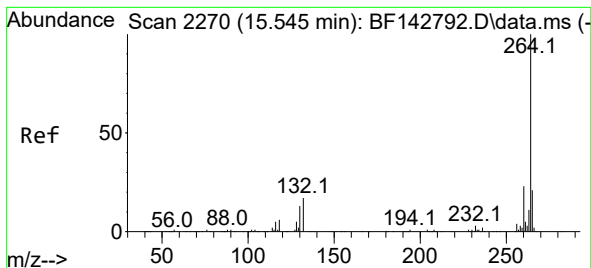
Tgt Ion:228 Resp: 208395
Ion Ratio Lower Upper
228 100
226 26.5 21.2 31.8
229 20.8 15.6 23.4



#83
Chrysene
Concen: 23.992 ng
RT: 14.080 min Scan# 2021
Delta R.T. 0.000 min
Lab File: BF143066.D
Acq: 09 Jul 2025 20:04

Tgt Ion:228 Resp: 167052
Ion Ratio Lower Upper
228 100
226 28.9 23.7 35.5
229 22.3 15.7 23.5





#86

Perylene-d12

Concen: 20.000 ng

RT: 15.545 min Scan# 21

Delta R.T. 0.000 min

Lab File: BF143066.D

Acq: 09 Jul 2025 20:04

Instrument :

BNA_F

ClientSampleId :

AR520-0015

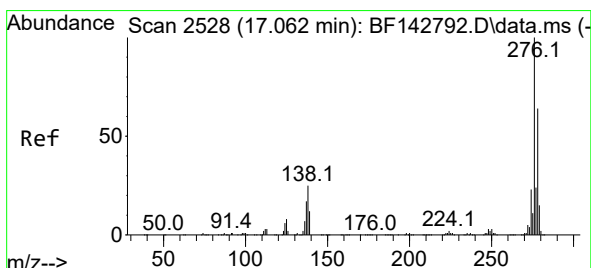
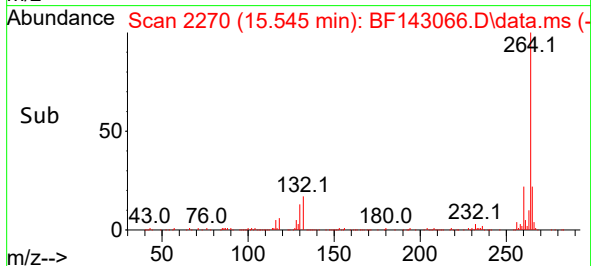
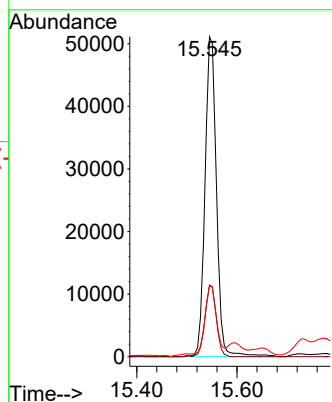
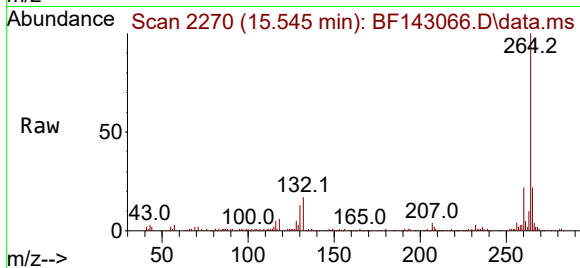
Tgt Ion:264 Resp: 81456

Ion Ratio Lower Upper

264 100

260 22.4 18.1 27.1

265 22.2 16.6 25.0



#87

Indeno(1,2,3-cd)pyrene

Concen: 8.238 ng

RT: 17.062 min Scan# 2528

Delta R.T. 0.000 min

Lab File: BF143066.D

Acq: 09 Jul 2025 20:04

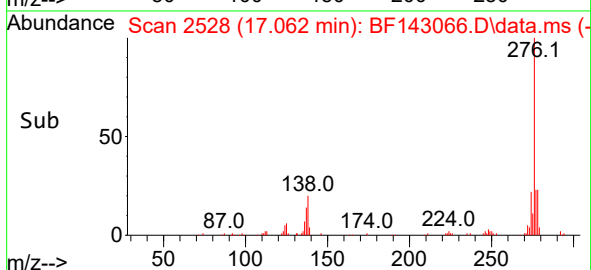
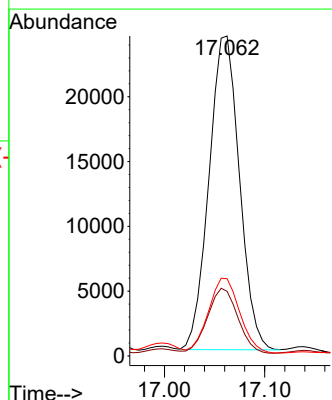
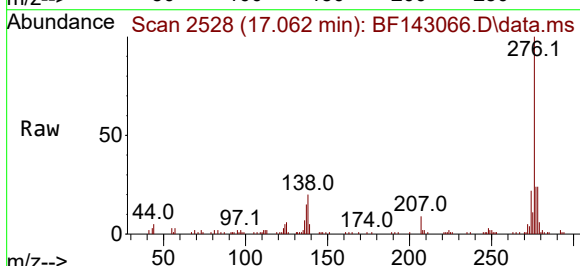
Tgt Ion:276 Resp: 51112

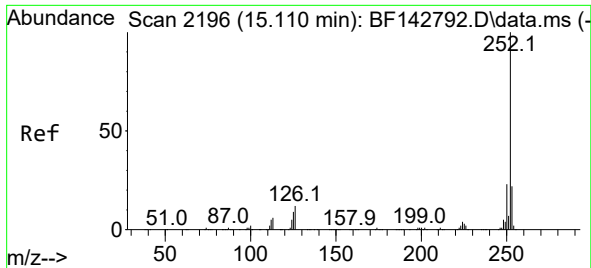
Ion Ratio Lower Upper

276 100

138 21.8 20.2 30.4

277 24.5 19.8 29.6

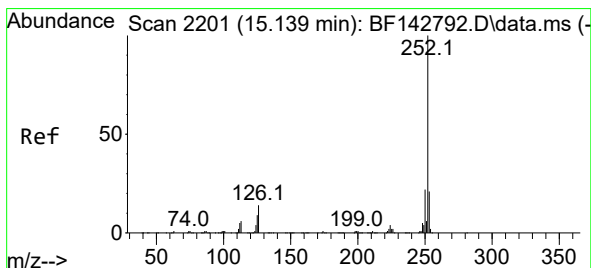
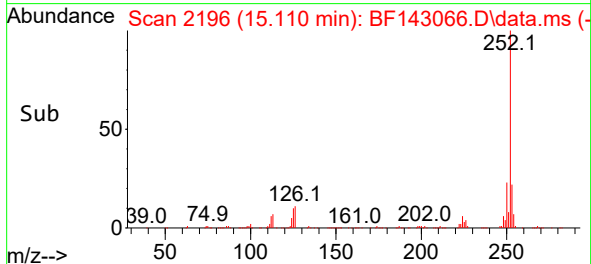
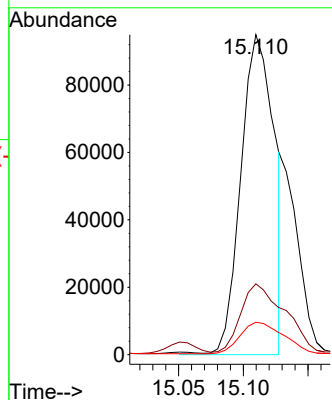
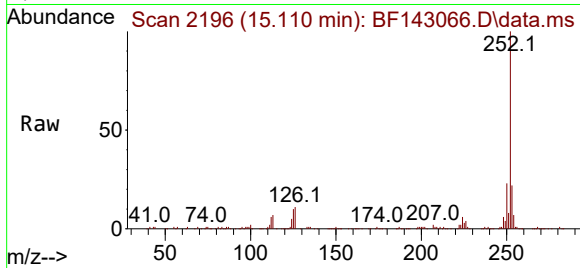




#88
Benzo(b)fluoranthene
Concen: 36.314 ng m
RT: 15.110 min Scan# 2196
Delta R.T. 0.000 min
Lab File: BF143066.D
Acq: 09 Jul 2025 20:04

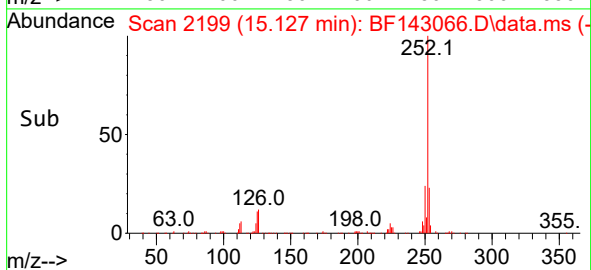
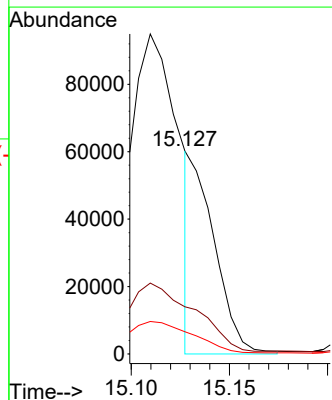
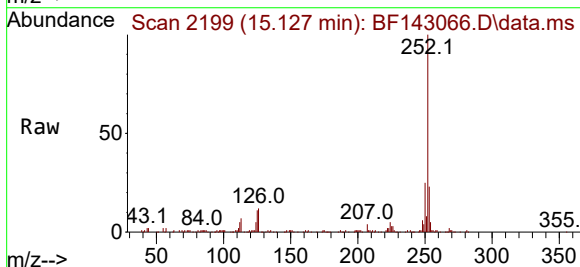
Instrument :
BNA_F
ClientSampleId :
AR520-0015

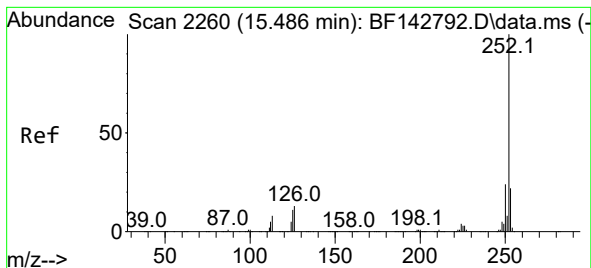
Tgt Ion:252 Resp: 171162
Ion Ratio Lower Upper
252 100
253 22.1 17.5 26.3
125 10.2 7.4 11.0



#89
Benzo(k)fluoranthene
Concen: 11.322 ng m
RT: 15.127 min Scan# 2199
Delta R.T. -0.012 min
Lab File: BF143066.D
Acq: 09 Jul 2025 20:04

Tgt Ion:252 Resp: 49927
Ion Ratio Lower Upper
252 100
253 23.3 17.2 25.8
125 11.0 7.4 11.2





#90

Benzo(a)pyrene

Concen: 22.531 ng

RT: 15.486 min Scan# 21

Delta R.T. 0.000 min

Lab File: BF143066.D

Acq: 09 Jul 2025 20:04

Instrument :

BNA_F

ClientSampleId :

AR520-0015

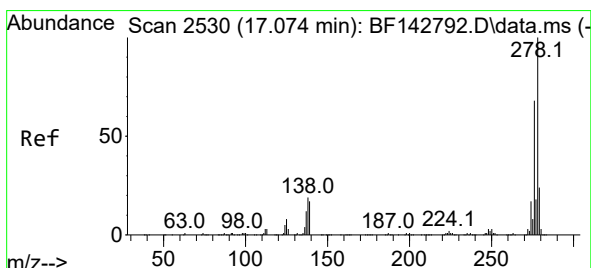
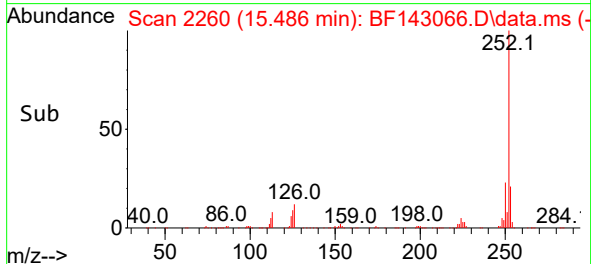
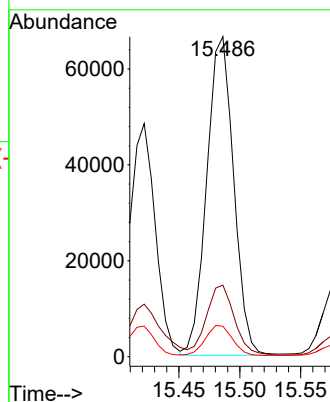
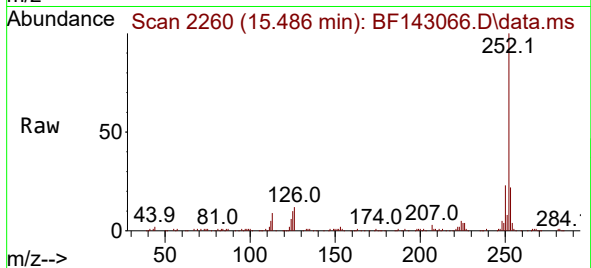
Tgt Ion:252 Resp: 102595

Ion Ratio Lower Upper

252 100

253 22.4 17.5 26.3

125 9.5 8.6 12.8



#91

Dibenzo(a,h)anthracene

Concen: 2.721 ng

RT: 17.062 min Scan# 2528

Delta R.T. -0.012 min

Lab File: BF143066.D

Acq: 09 Jul 2025 20:04

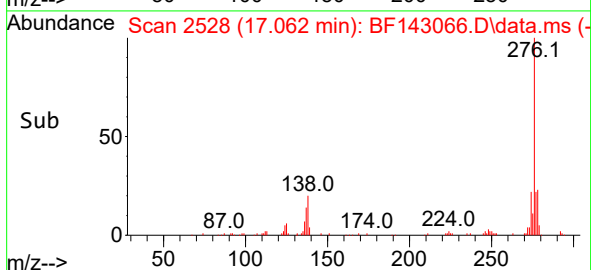
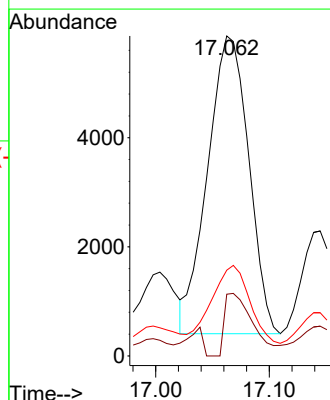
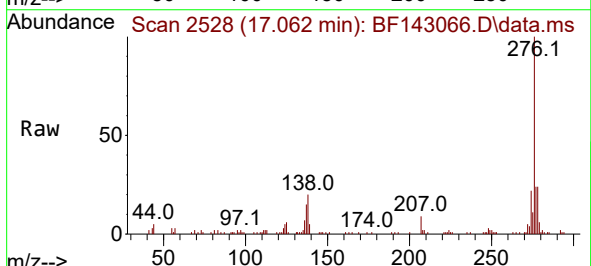
Tgt Ion:278 Resp: 13719

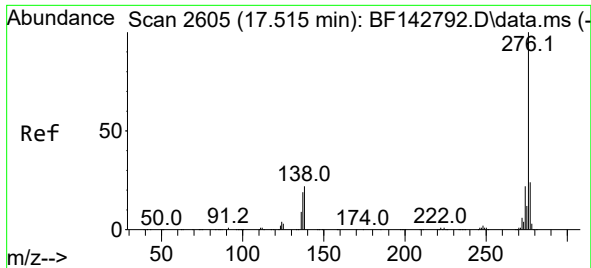
Ion Ratio Lower Upper

278 100

139 19.3 13.5 20.3

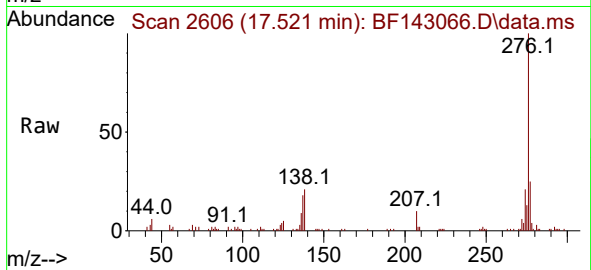
279 26.8 18.8 28.2





#92
 Benzo(g,h,i)perylene
 Concen: 9.798 ng
 RT: 17.521 min Scan# 20
 Delta R.T. 0.006 min
 Lab File: BF143066.D
 Acq: 09 Jul 2025 20:04

Instrument :
 BNA_F
 ClientSampleId :
 AR520-0015



Tgt Ion:276 Resp: 49254
 Ion Ratio Lower Upper
 276 100
 277 24.8 18.8 28.2
 138 21.2 17.6 26.4

