

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF070825\
 Data File : BF143042.D
 Acq On : 08 Jul 2025 19:41
 Operator : RC/JU
 Sample : Q2484-01DL 5X
 Misc :
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 TP-58DL

Quant Time: Jul 09 01:41:33 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)

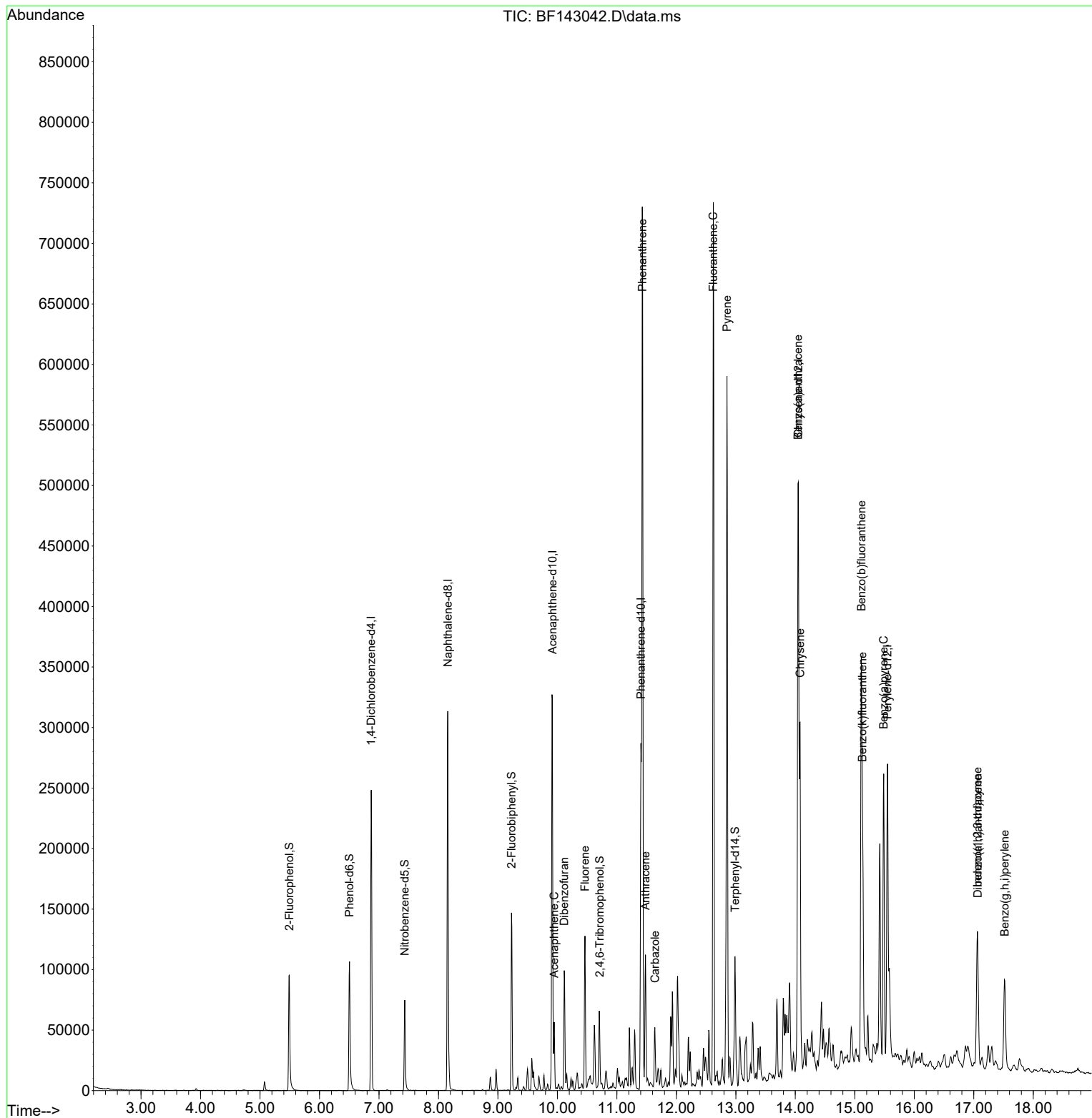
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.869	152	55124	20.000	ng	-0.01
21) Naphthalene-d8	8.157	136	205762	20.000	ng	-0.01
39) Acenaphthene-d10	9.916	164	101508	20.000	ng	0.00
64) Phenanthrene-d10	11.404	188	147948	20.000	ng	0.00
76) Chrysene-d12	14.051	240	119601	20.000	ng	0.00
86) Perylene-d12	15.551	264	141551	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.493	112	46567	14.065	ng	0.00
7) Phenol-d6	6.504	99	59033	15.113	ng	0.00
23) Nitrobenzene-d5	7.434	82	34671	9.242	ng	-0.01
42) 2,4,6-Tribromophenol	10.710	330	7643	7.317	ng	0.00
45) 2-Fluorobiphenyl	9.228	172	67977	8.797	ng	-0.02
79) Terphenyl-d14	12.986	244	47071	5.438	ng	-0.01
Target Compounds						Qvalue
52) Acenaphthene	9.945	154	16736	2.769	ng	99
55) Dibenzofuran	10.116	168	53957	6.226	ng	97
58) Fluorene	10.463	166	52087	7.695	ng	100
71) Phenanthrene	11.428	178	402101	50.173	ng	99
72) Anthracene	11.480	178	64102	7.799	ng	99
73) Carbazole	11.639	167	28748	4.053	ng	99
75) Fluoranthene	12.622	202	429657	56.489	ng	100
78) Pyrene	12.851	202	341329	30.447	ng	99
81) Benzo(a)anthracene	14.045	228	194490	24.105	ng	98
83) Chrysene	14.080	228	143686	19.958	ng	98
87) Indeno(1,2,3-cd)pyrene	17.062	276	81300	7.540	ng	96
88) Benzo(b)fluoranthene	15.110	252	222779m	27.199	ng	
89) Benzo(k)fluoranthene	15.127	252	71168m	9.287	ng	
90) Benzo(a)pyrene	15.486	252	143707	18.161	ng	99
91) Dibenzo(a,h)anthracene	17.068	278	20551m	2.346	ng	
92) Benzo(g,h,i)perylene	17.521	276	70121	8.027	ng	99

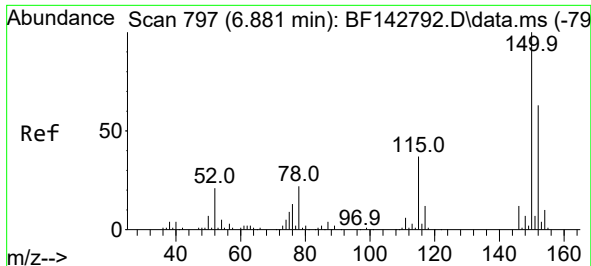
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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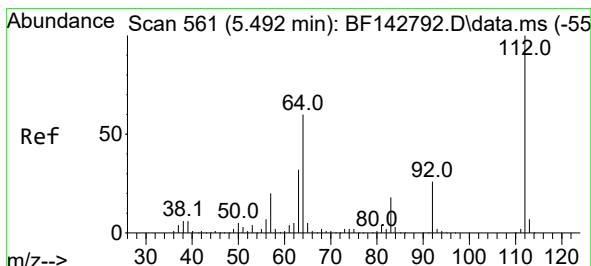
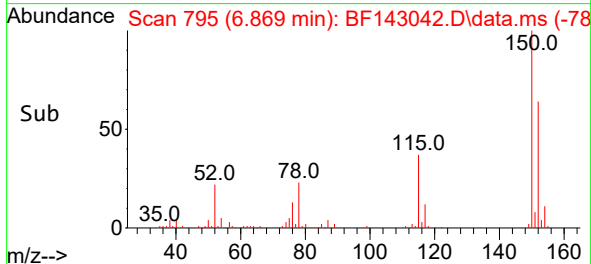
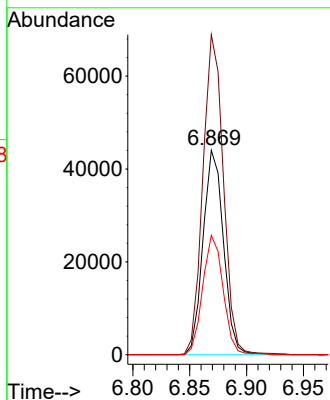
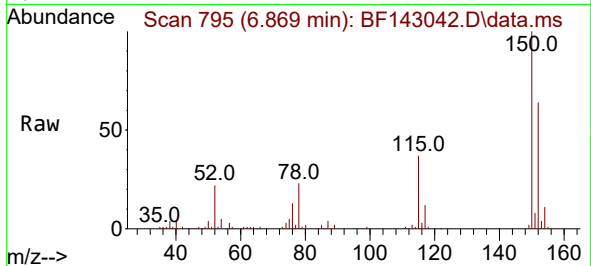




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.869 min Scan# 797
Delta R.T. -0.012 min
Lab File: BF143042.D
Acq: 08 Jul 2025 19:41

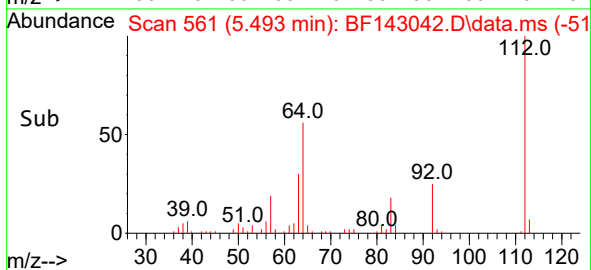
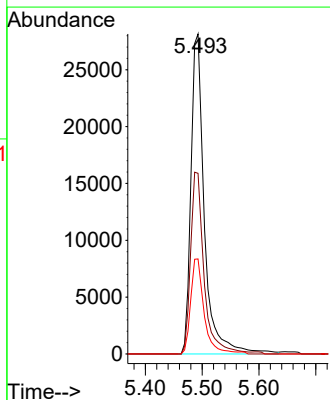
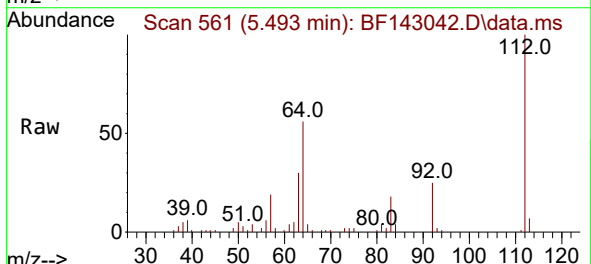
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BNA_F
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TP-58DL

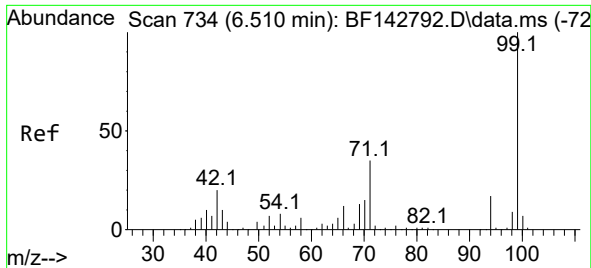
Tgt Ion:152 Resp: 55124
Ion Ratio Lower Upper
152 100
150 156.6 127.2 190.8
115 58.4 46.6 69.8



#5
2-Fluorophenol
Concen: 14.065 ng
RT: 5.493 min Scan# 561
Delta R.T. 0.001 min
Lab File: BF143042.D
Acq: 08 Jul 2025 19:41

Tgt Ion:112 Resp: 46567
Ion Ratio Lower Upper
112 100
64 56.4 48.2 72.2
63 29.7 25.7 38.5

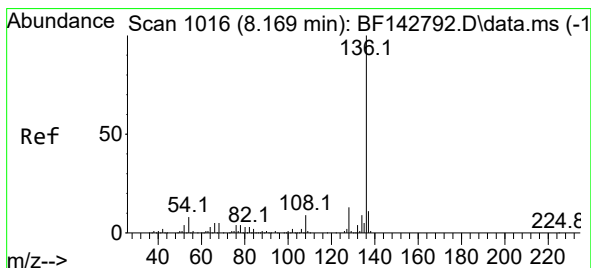
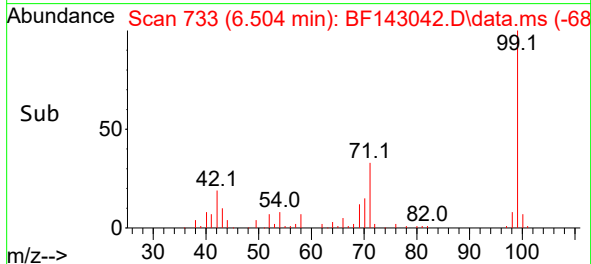
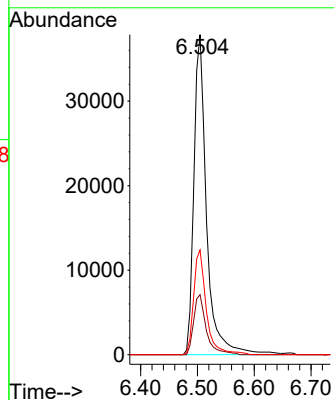
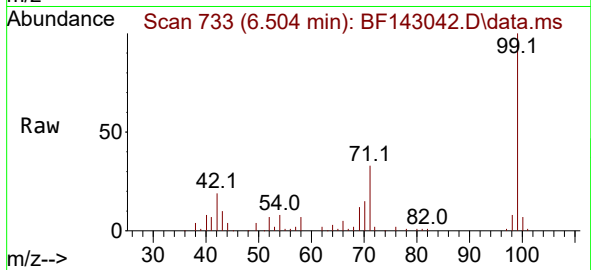




#7
Phenol-d6
Concen: 15.113 ng
RT: 6.504 min Scan# 71
Delta R.T. -0.006 min
Lab File: BF143042.D
Acq: 08 Jul 2025 19:41

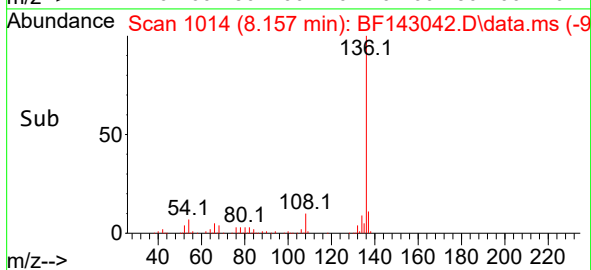
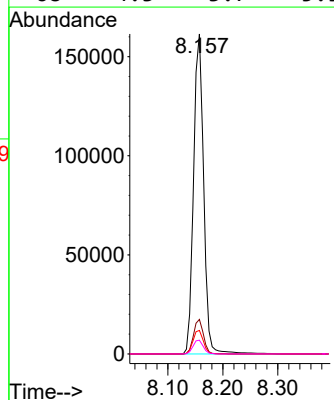
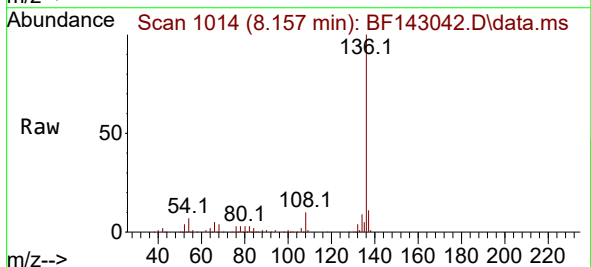
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ClientSampleId :
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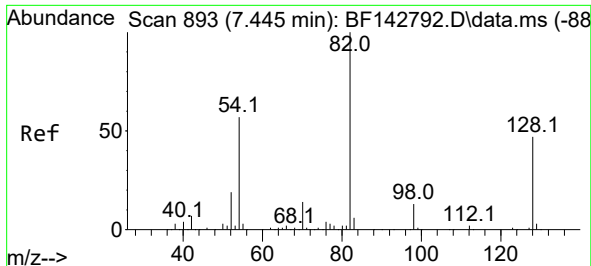
Tgt Ion: 99 Resp: 59033
Ion Ratio Lower Upper
99 100
42 18.7 15.9 23.9
71 32.7 27.8 41.8



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.157 min Scan# 1014
Delta R.T. -0.012 min
Lab File: BF143042.D
Acq: 08 Jul 2025 19:41

Tgt Ion: 136 Resp: 205762
Ion Ratio Lower Upper
136 100
137 10.8 8.4 12.6
54 7.3 6.3 9.5
68 4.3 3.7 5.5





#23

Nitrobenzene-d5

Concen: 9.242 ng

RT: 7.434 min Scan# 89

Delta R.T. -0.011 min

Lab File: BF143042.D

Acq: 08 Jul 2025 19:41

Instrument :

BNA_F

ClientSampleId :

TP-58DL

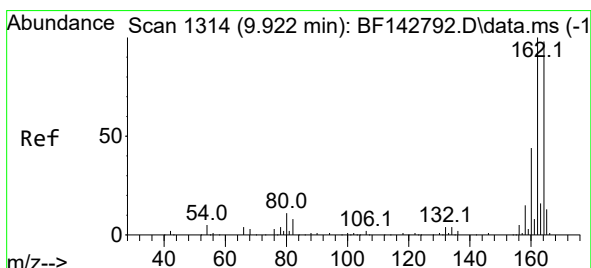
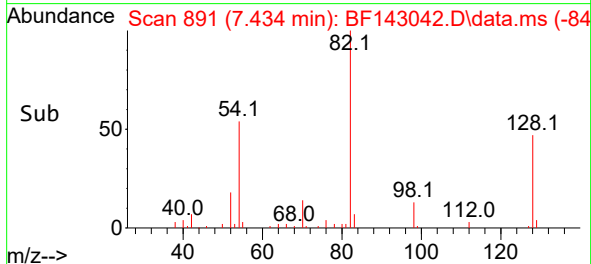
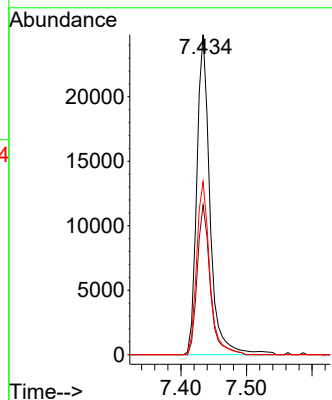
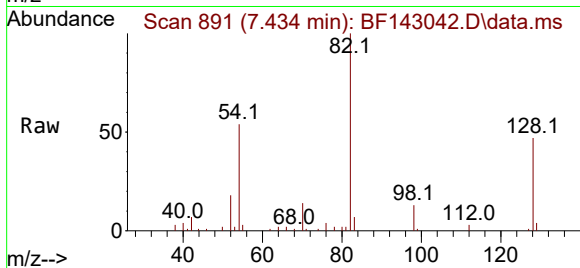
Tgt Ion: 82 Resp: 34671

Ion Ratio Lower Upper

82 100

128 46.8 37.7 56.5

54 54.0 45.7 68.5



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.916 min Scan# 1313

Delta R.T. -0.006 min

Lab File: BF143042.D

Acq: 08 Jul 2025 19:41

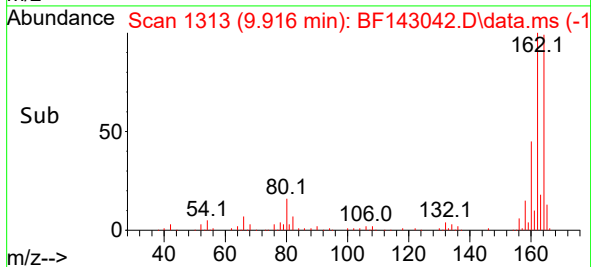
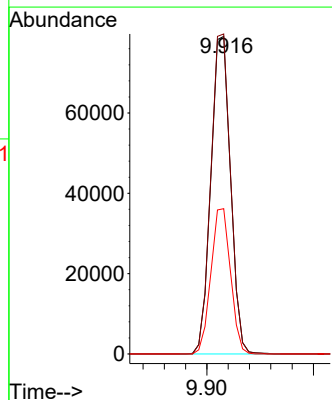
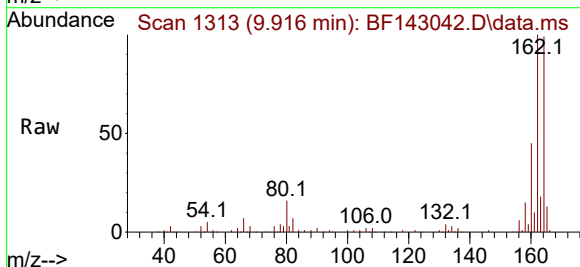
Tgt Ion:164 Resp: 101508

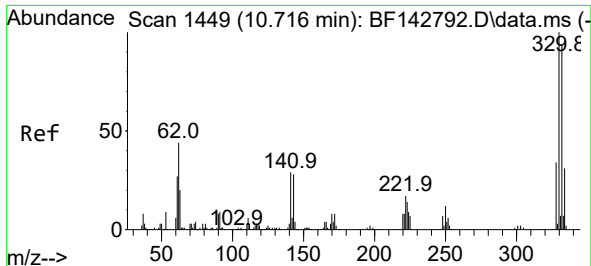
Ion Ratio Lower Upper

164 100

162 100.8 81.8 122.8

160 45.8 36.0 54.0

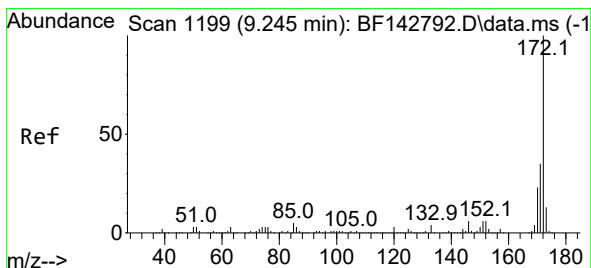
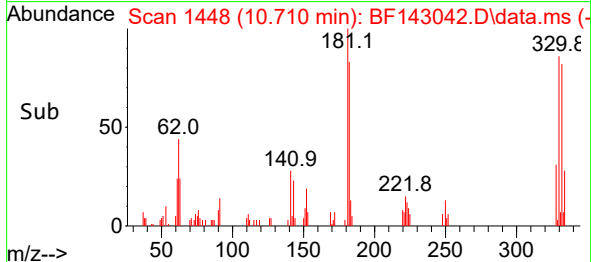
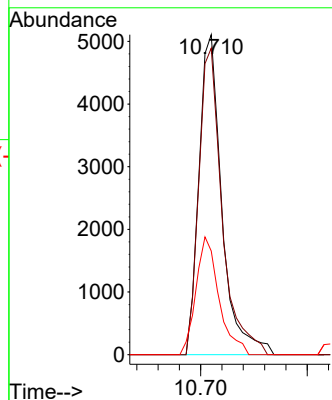
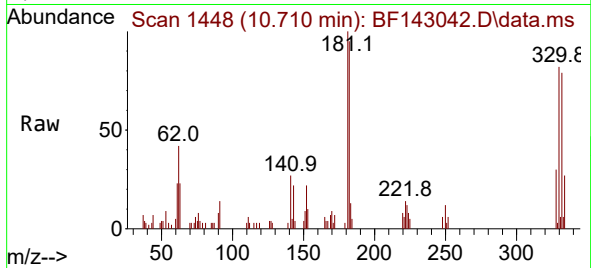




#42
2,4,6-Tribromophenol
Concen: 7.317 ng
RT: 10.710 min Scan# 1449
Delta R.T. -0.006 min
Lab File: BF143042.D
Acq: 08 Jul 2025 19:41

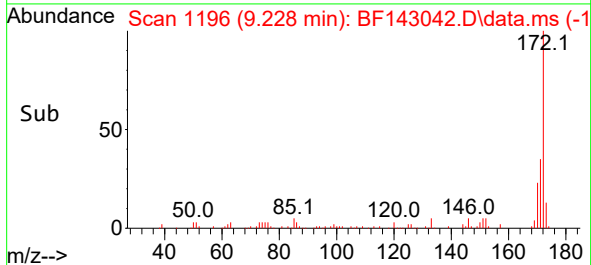
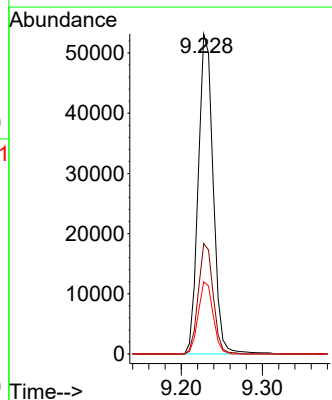
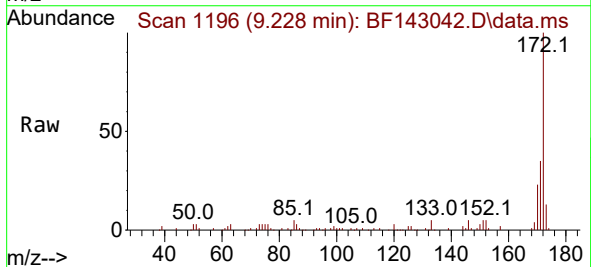
Instrument :
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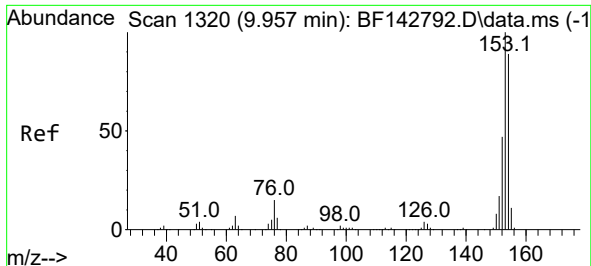
Tgt Ion:330 Resp: 7643
Ion Ratio Lower Upper
330 100
332 97.1 75.0 112.6
141 37.0 25.3 37.9



#45
2-Fluorobiphenyl
Concen: 8.797 ng
RT: 9.228 min Scan# 1196
Delta R.T. -0.017 min
Lab File: BF143042.D
Acq: 08 Jul 2025 19:41

Tgt Ion:172 Resp: 67977
Ion Ratio Lower Upper
172 100
171 34.5 28.2 42.4
170 22.6 18.5 27.7

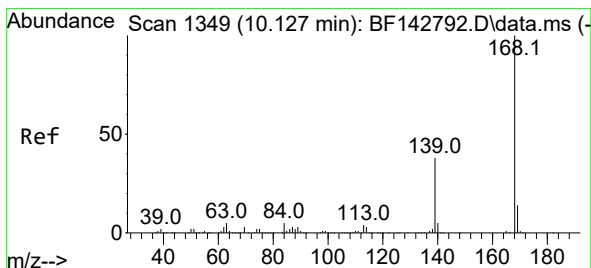
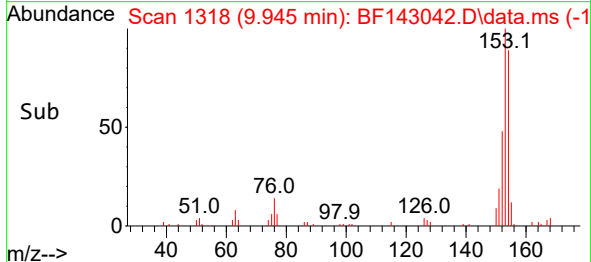
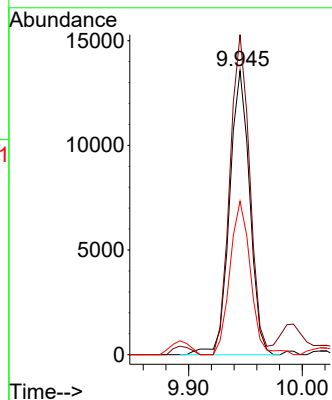
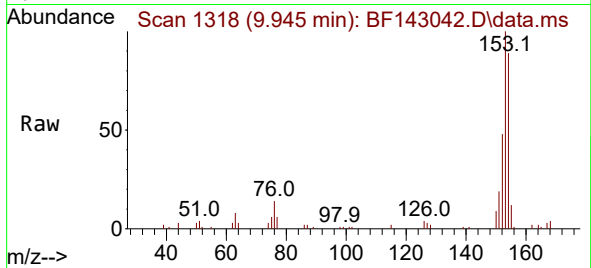




#52
Acenaphthene
Concen: 2.769 ng
RT: 9.945 min Scan# 1318
Delta R.T. -0.012 min
Lab File: BF143042.D
Acq: 08 Jul 2025 19:41

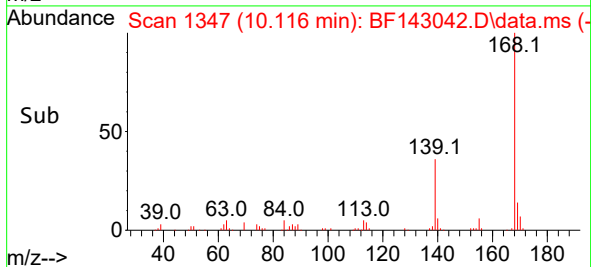
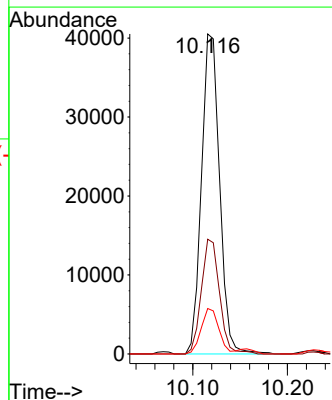
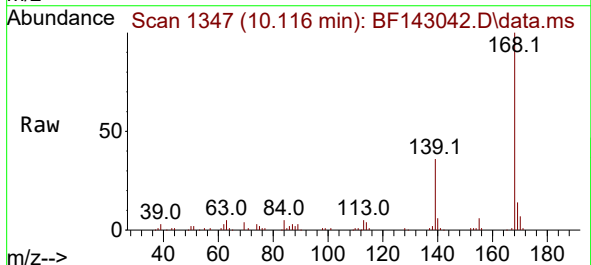
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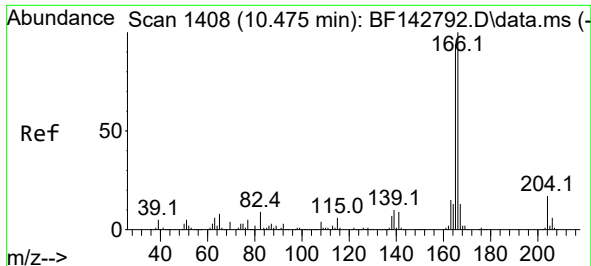
Tgt Ion:154 Resp: 16736
Ion Ratio Lower Upper
154 100
153 112.6 90.0 135.0
152 54.0 41.9 62.9



#55
Dibenzofuran
Concen: 6.226 ng
RT: 10.116 min Scan# 1347
Delta R.T. -0.012 min
Lab File: BF143042.D
Acq: 08 Jul 2025 19:41

Tgt Ion:168 Resp: 53957
Ion Ratio Lower Upper
168 100
139 35.9 30.2 45.4
169 14.2 10.8 16.2

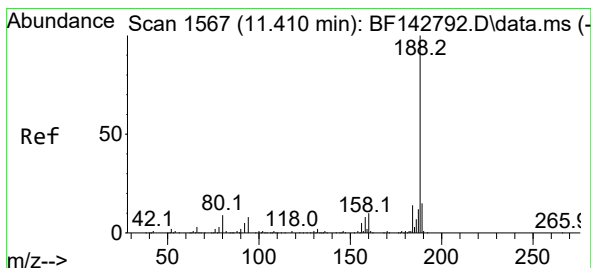
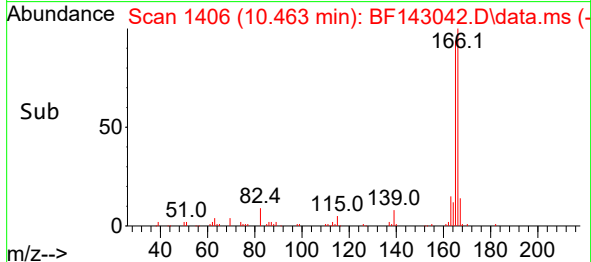
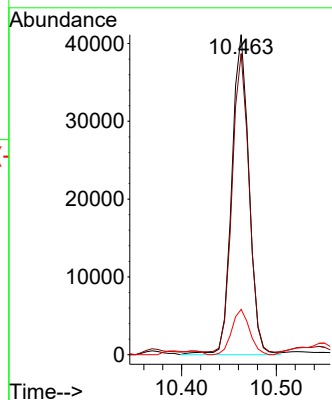
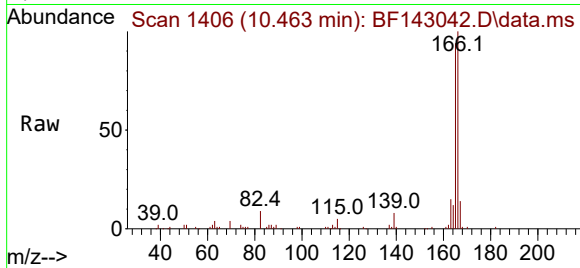




#58
Fluorene
Concen: 7.695 ng
RT: 10.463 min Scan# 1406
Delta R.T. -0.012 min
Lab File: BF143042.D
Acq: 08 Jul 2025 19:41

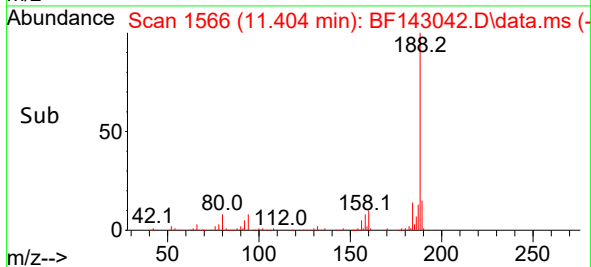
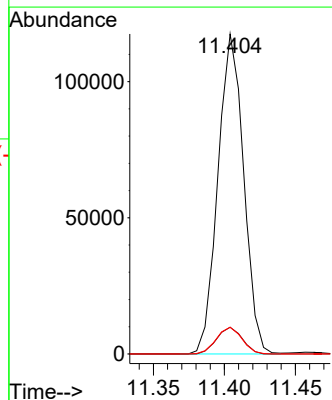
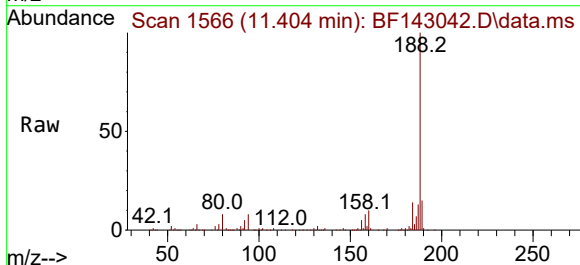
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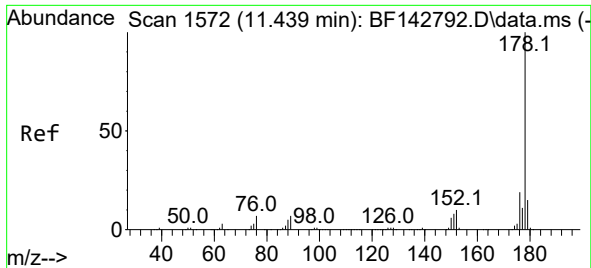
Tgt Ion:166 Resp: 52087
Ion Ratio Lower Upper
166 100
165 94.1 75.2 112.8
167 14.2 10.6 15.8



#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.404 min Scan# 1566
Delta R.T. -0.006 min
Lab File: BF143042.D
Acq: 08 Jul 2025 19:41

Tgt Ion:188 Resp: 147948
Ion Ratio Lower Upper
188 100
94 8.4 6.7 10.1
80 8.4 6.9 10.3

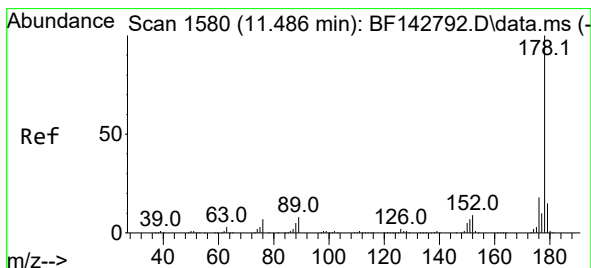
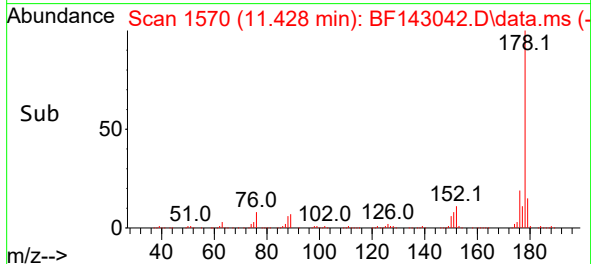
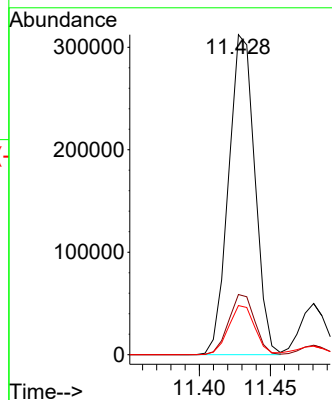
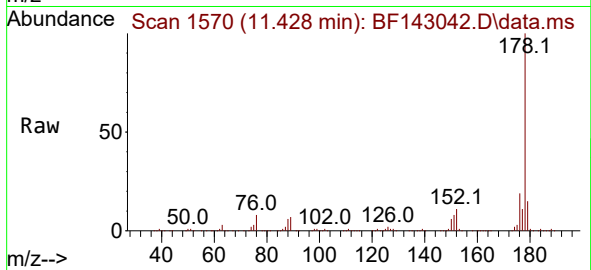




#71
Phenanthrene
Concen: 50.173 ng
RT: 11.428 min Scan# 1570
Delta R.T. -0.012 min
Lab File: BF143042.D
Acq: 08 Jul 2025 19:41

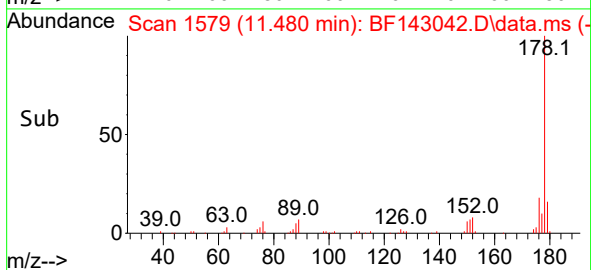
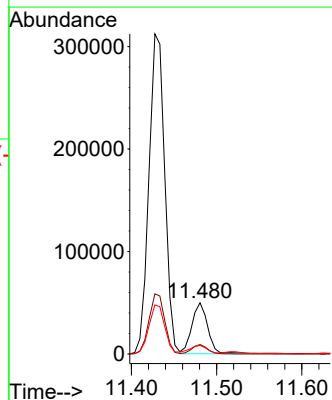
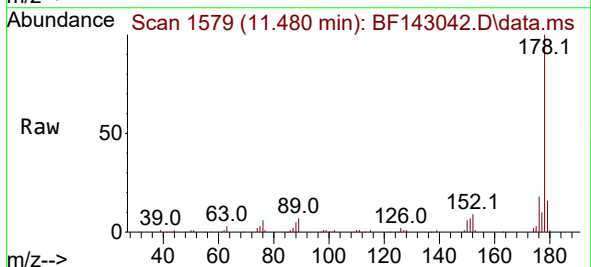
Instrument :
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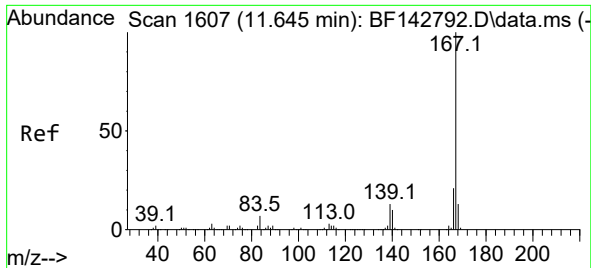
Tgt Ion:178 Resp: 402101
Ion Ratio Lower Upper
178 100
176 18.8 15.1 22.7
179 15.4 12.0 18.0



#72
Anthracene
Concen: 7.799 ng
RT: 11.480 min Scan# 1579
Delta R.T. -0.006 min
Lab File: BF143042.D
Acq: 08 Jul 2025 19:41

Tgt Ion:178 Resp: 64102
Ion Ratio Lower Upper
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176 18.5 14.6 21.8
179 16.5 12.4 18.6

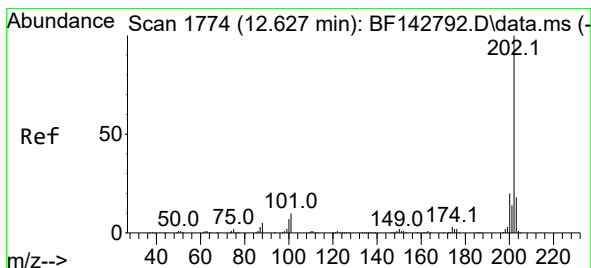
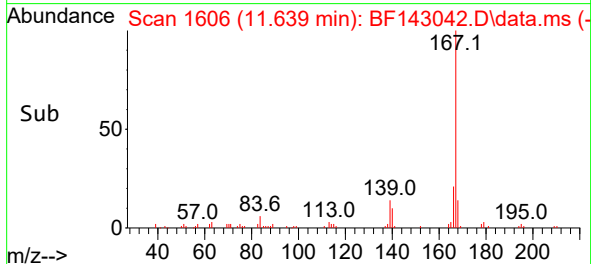
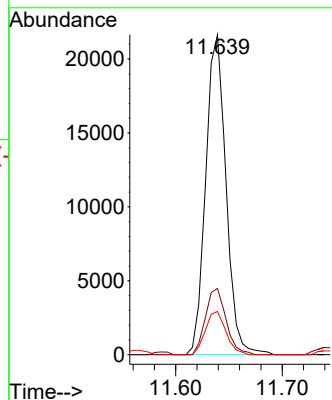
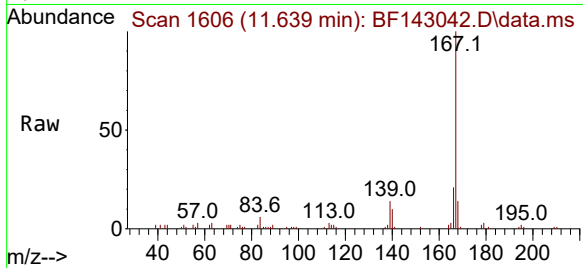




#73
 Carbazole
 Concen: 4.053 ng
 RT: 11.639 min Scan# 1
 Delta R.T. -0.006 min
 Lab File: BF143042.D
 Acq: 08 Jul 2025 19:41

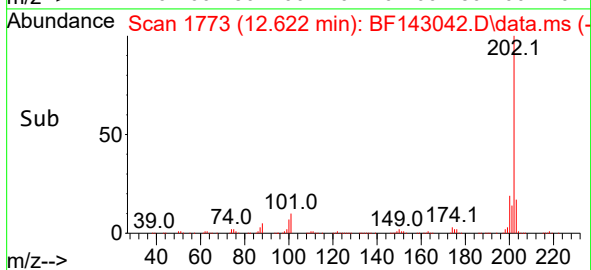
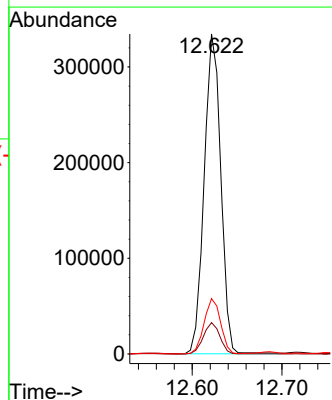
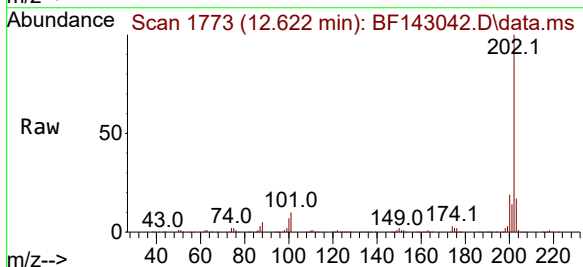
Instrument :
 BNA_F
 ClientSampleId :
 TP-58DL

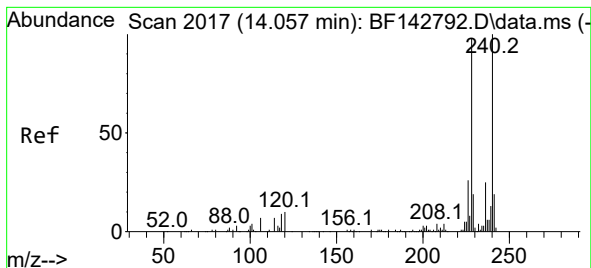
Tgt Ion:167 Resp: 28748
 Ion Ratio Lower Upper
 167 100
 166 20.7 17.0 25.4
 139 13.5 10.2 15.2



#75
 Fluoranthene
 Concen: 56.489 ng
 RT: 12.622 min Scan# 1773
 Delta R.T. -0.006 min
 Lab File: BF143042.D
 Acq: 08 Jul 2025 19:41

Tgt Ion:202 Resp: 429657
 Ion Ratio Lower Upper
 202 100
 101 9.8 0.0 29.7
 203 17.3 0.0 37.5





#76

Chrysene-d12

Concen: 20.000 ng

RT: 14.051 min Scan# 20

Delta R.T. -0.006 min

Lab File: BF143042.D

Acq: 08 Jul 2025 19:41

Instrument :

BNA_F

ClientSampleId :

TP-58DL

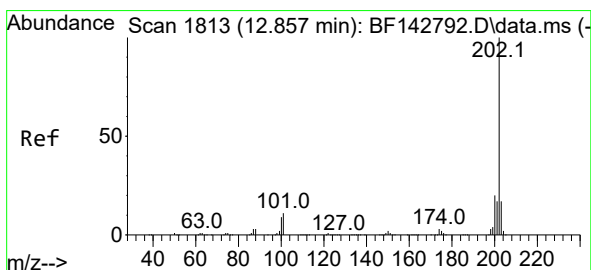
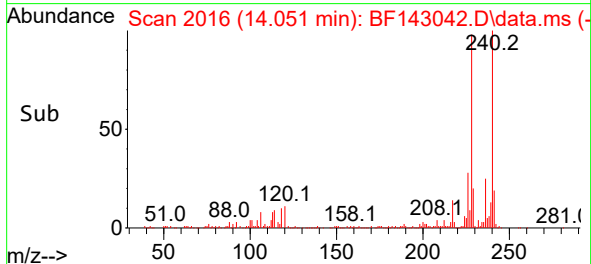
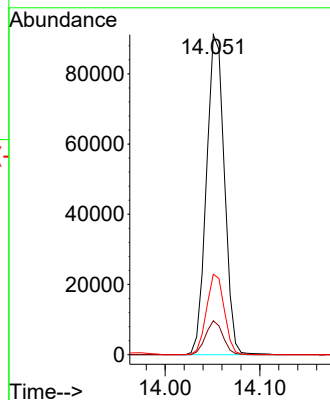
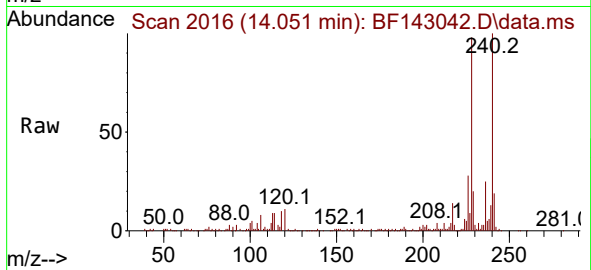
Tgt Ion:240 Resp: 119601

Ion Ratio Lower Upper

240 100

120 10.6 8.2 12.2

236 25.2 19.8 29.8



#78

Pyrene

Concen: 30.447 ng

RT: 12.851 min Scan# 1812

Delta R.T. -0.006 min

Lab File: BF143042.D

Acq: 08 Jul 2025 19:41

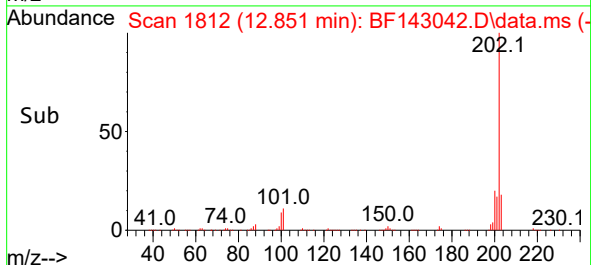
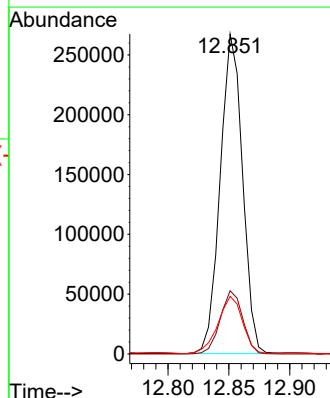
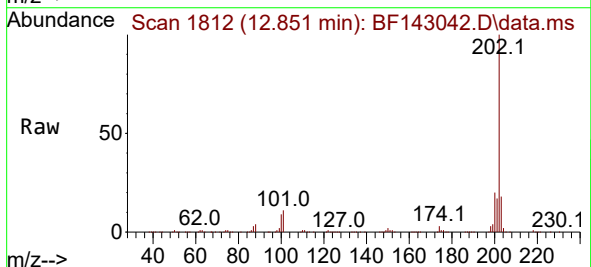
Tgt Ion:202 Resp: 341329

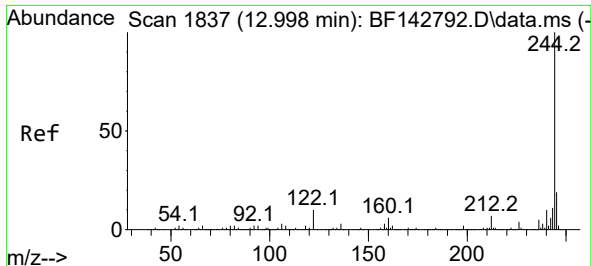
Ion Ratio Lower Upper

202 100

200 19.8 15.7 23.5

203 18.0 13.8 20.6

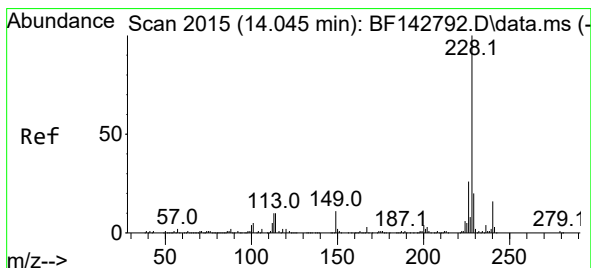
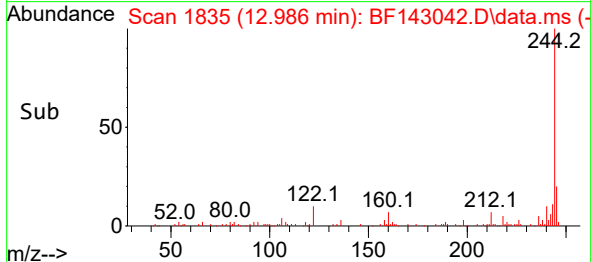
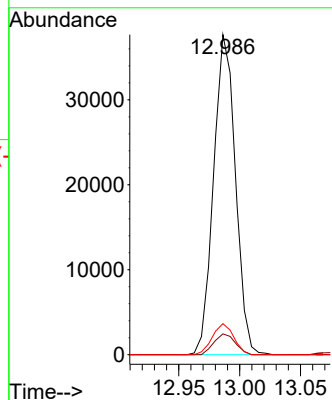
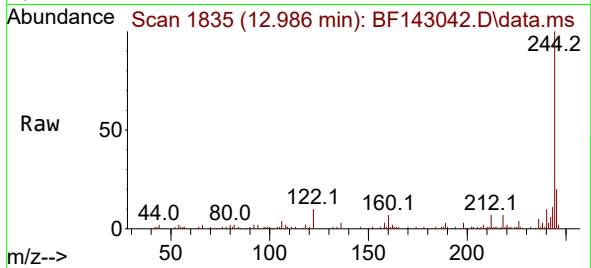




#79
 Terphenyl-d14
 Concen: 5.438 ng
 RT: 12.986 min Scan# 1835
 Delta R.T. -0.012 min
 Lab File: BF143042.D
 Acq: 08 Jul 2025 19:41

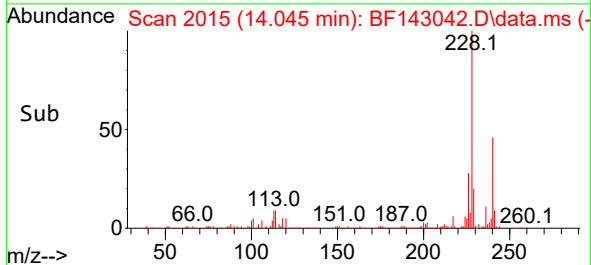
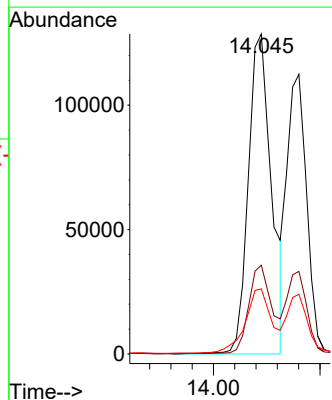
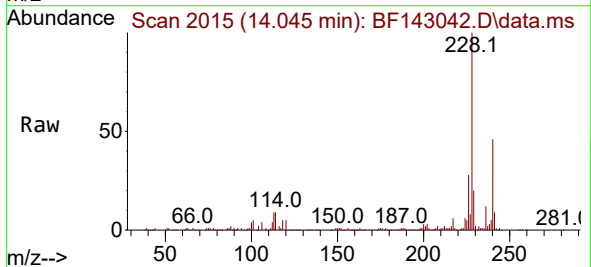
Instrument :
 BNA_F
 ClientSampleId :
 TP-58DL

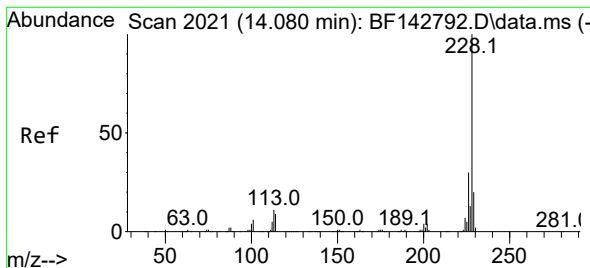
Tgt Ion:244 Resp: 47071
 Ion Ratio Lower Upper
 244 100
 212 6.5 5.4 8.0
 122 9.7 8.2 12.2



#81
 Benzo(a)anthracene
 Concen: 24.105 ng
 RT: 14.045 min Scan# 2015
 Delta R.T. 0.000 min
 Lab File: BF143042.D
 Acq: 08 Jul 2025 19:41

Tgt Ion:228 Resp: 194490
 Ion Ratio Lower Upper
 228 100
 226 27.8 21.2 31.8
 229 20.4 15.6 23.4





#83

Chrysene

Concen: 19.958 ng

RT: 14.080 min Scan# 20

Delta R.T. 0.000 min

Lab File: BF143042.D

Acq: 08 Jul 2025 19:41

Instrument :

BNA_F

ClientSampleId :

TP-58DL

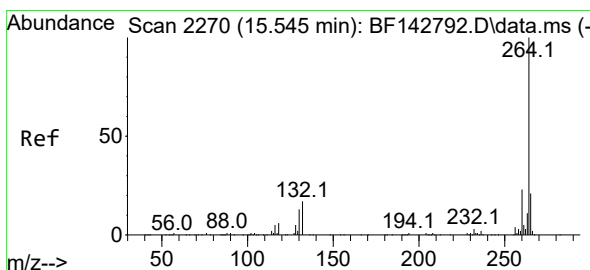
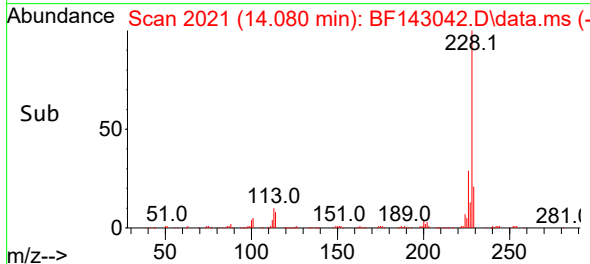
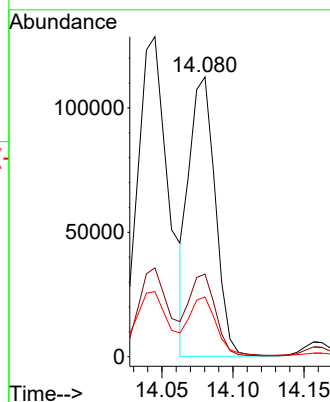
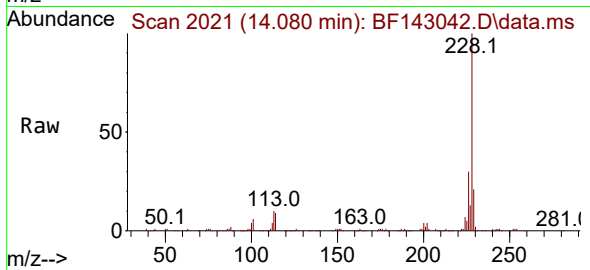
Tgt Ion:228 Resp: 143686

Ion Ratio Lower Upper

228 100

226 29.5 23.7 35.5

229 21.3 15.7 23.5



#86

Perylene-d12

Concen: 20.000 ng

RT: 15.551 min Scan# 2271

Delta R.T. 0.006 min

Lab File: BF143042.D

Acq: 08 Jul 2025 19:41

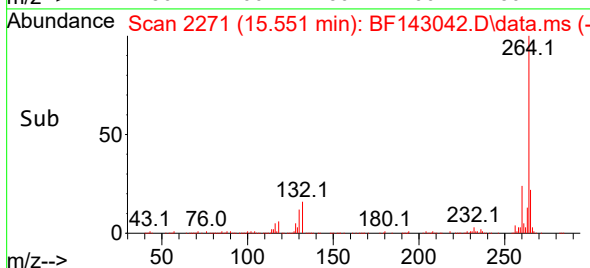
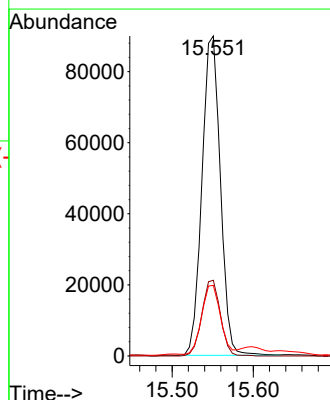
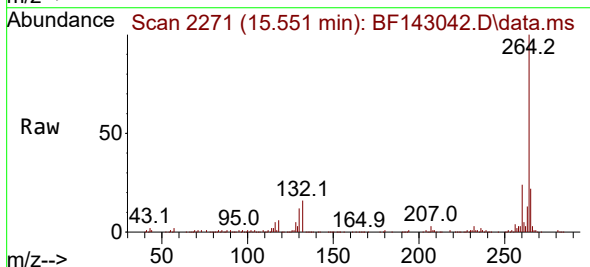
Tgt Ion:264 Resp: 141551

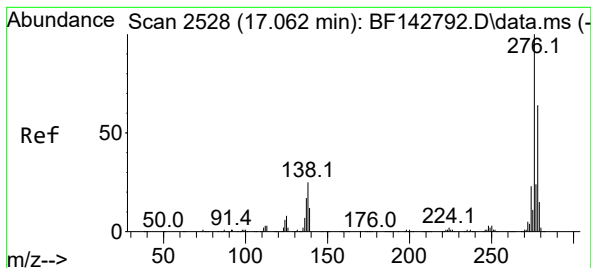
Ion Ratio Lower Upper

264 100

260 23.6 18.1 27.1

265 22.1 16.6 25.0





#87

Indeno(1,2,3-cd)pyrene

Concen: 7.540 ng

RT: 17.062 min Scan# 21

Delta R.T. 0.000 min

Lab File: BF143042.D

Acq: 08 Jul 2025 19:41

Instrument :

BNA_F

ClientSampleId :

TP-58DL

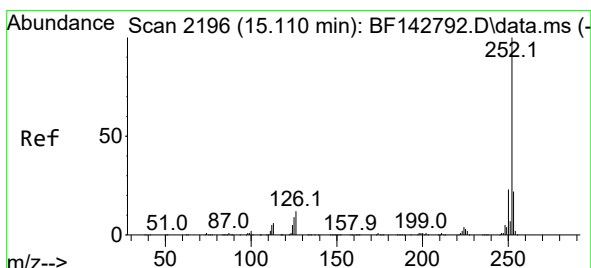
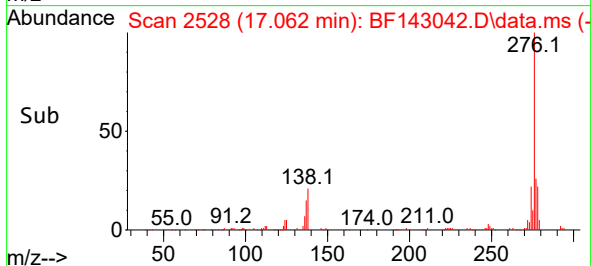
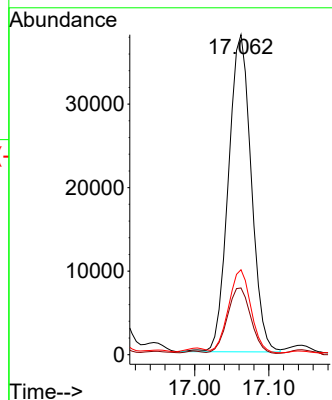
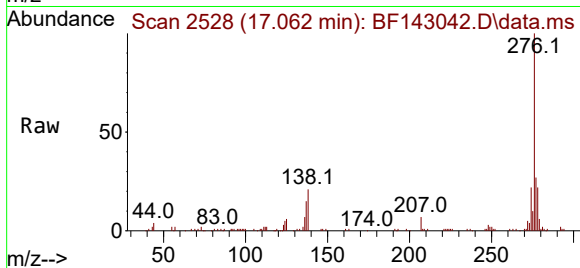
Tgt Ion:276 Resp: 81300

Ion Ratio Lower Upper

276 100

138 21.7 20.2 30.4

277 25.5 19.8 29.6



#88

Benzo(b)fluoranthene

Concen: 27.199 ng m

RT: 15.110 min Scan# 2196

Delta R.T. 0.000 min

Lab File: BF143042.D

Acq: 08 Jul 2025 19:41

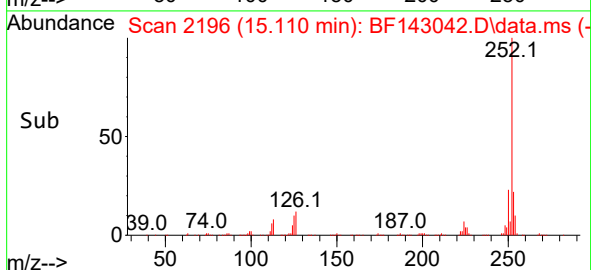
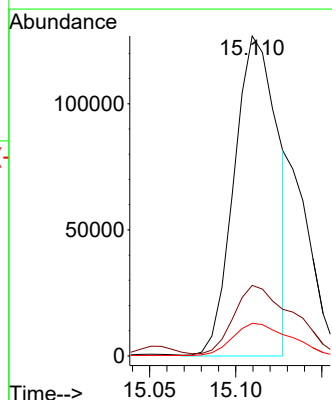
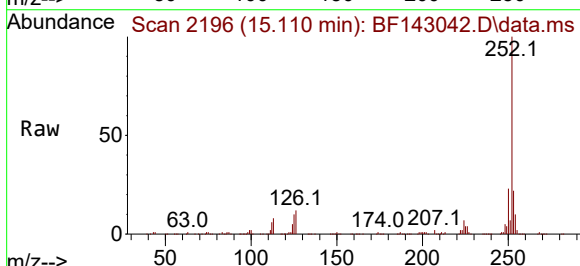
Tgt Ion:252 Resp: 222779

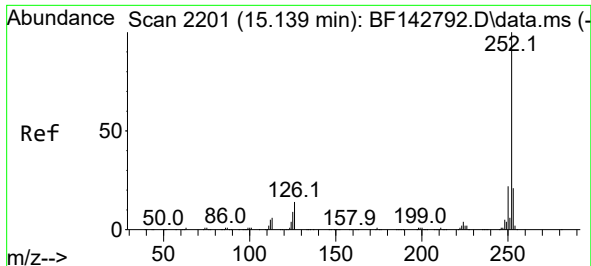
Ion Ratio Lower Upper

252 100

253 22.1 17.5 26.3

125 10.2 7.4 11.0





#89

Benzo(k)fluoranthene

Concen: 9.287 ng m

RT: 15.127 min Scan# 21

Delta R.T. -0.012 min

Lab File: BF143042.D

Acq: 08 Jul 2025 19:41

Instrument :

BNA_F

ClientSampleId :

TP-58DL

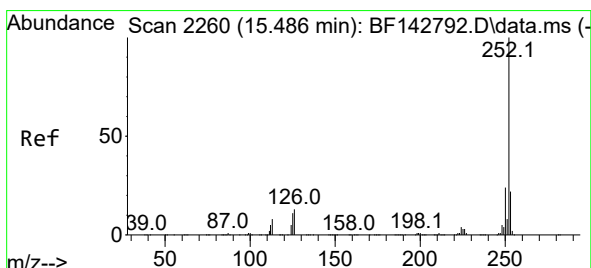
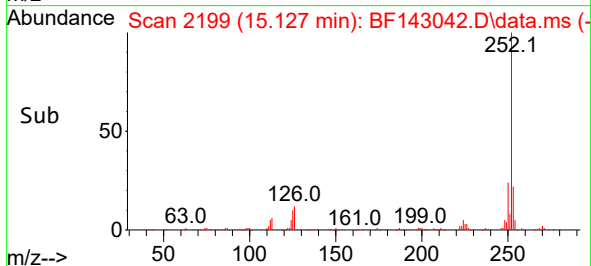
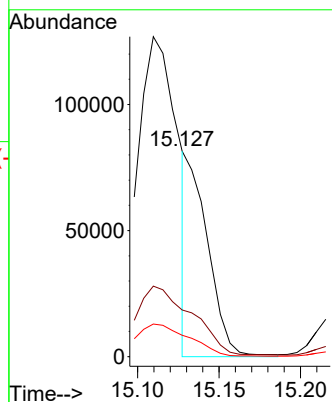
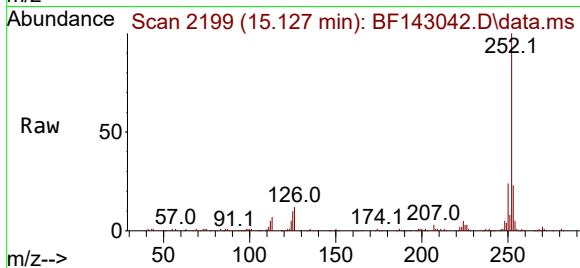
Tgt Ion:252 Resp: 71168

Ion Ratio Lower Upper

252 100

253 22.7 17.2 25.8

125 10.5 7.4 11.2



#90

Benzo(a)pyrene

Concen: 18.161 ng

RT: 15.486 min Scan# 2260

Delta R.T. 0.000 min

Lab File: BF143042.D

Acq: 08 Jul 2025 19:41

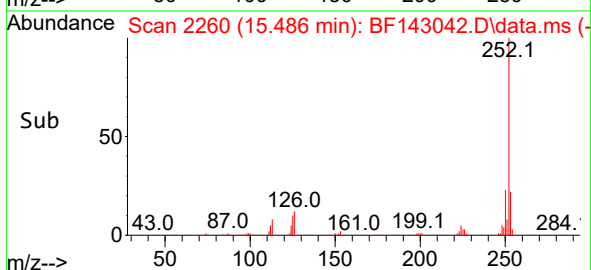
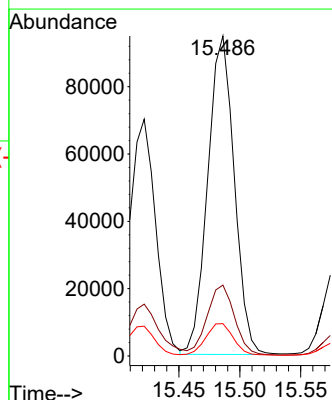
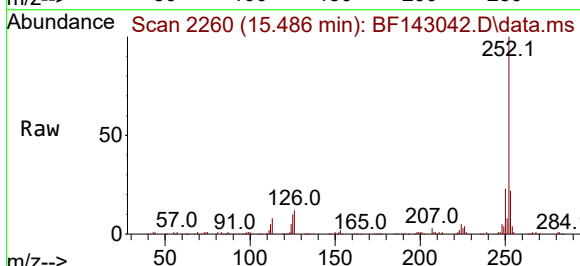
Tgt Ion:252 Resp: 143707

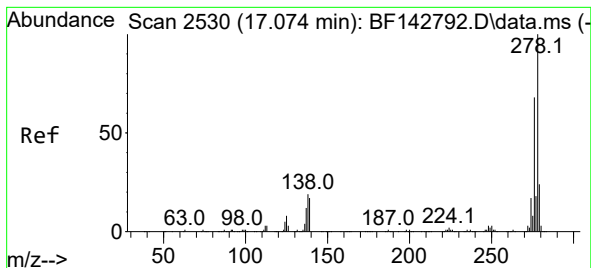
Ion Ratio Lower Upper

252 100

253 22.2 17.5 26.3

125 10.1 8.6 12.8





#91

Dibenzo(a,h)anthracene

Concen: 2.346 ng m

RT: 17.068 min Scan# 21

Delta R.T. -0.006 min

Lab File: BF143042.D

Acq: 08 Jul 2025 19:41

Instrument :

BNA_F

ClientSampleId :

TP-58DL

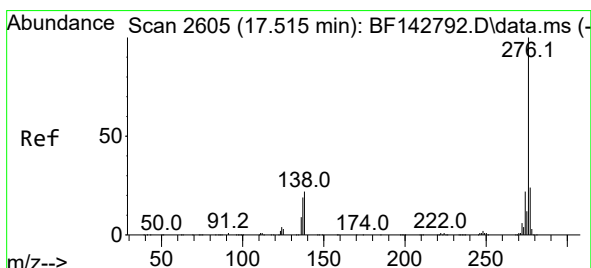
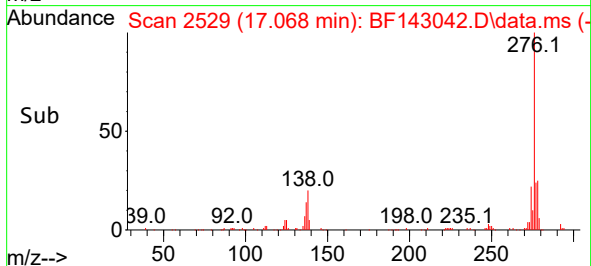
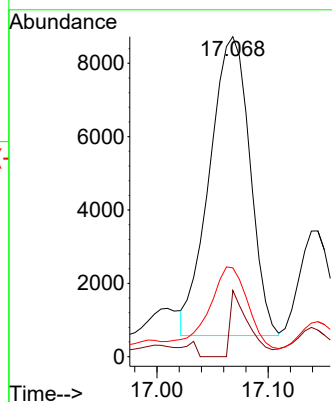
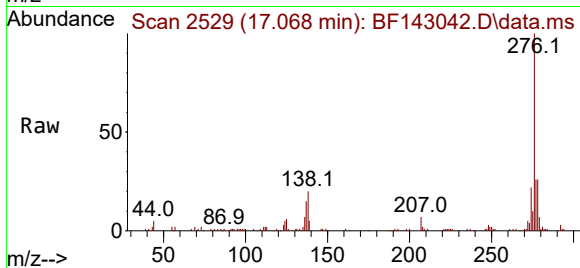
Tgt Ion:278 Resp: 20551

Ion Ratio Lower Upper

278 100

139 20.7 13.5 20.3#

279 27.8 18.8 28.2



#92

Benzo(g,h,i)perylene

Concen: 8.027 ng

RT: 17.521 min Scan# 2606

Delta R.T. 0.006 min

Lab File: BF143042.D

Acq: 08 Jul 2025 19:41

Tgt Ion:276 Resp: 70121

Ion Ratio Lower Upper

276 100

277 24.3 18.8 28.2

138 21.8 17.6 26.4

