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 Data File : BF142830.D
 Acq On : 24 Jun 2025 20:38
 Operator : RC/JU
 Sample : Q2380-05 5X
 Misc :
 ALS Vial : 21 Sample Multiplier: 1

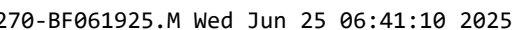
Instrument :
 BNA_F
 ClientSampleId :
 RBR-200059

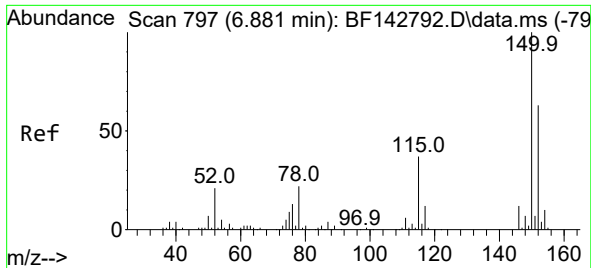
Quant Time: Jun 25 01:30:41 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF061925.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Jun 24 05:28:21 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.881	152	56948	20.000	ng	0.00
21) Naphthalene-d8	8.163	136	189584	20.000	ng	0.00
39) Acenaphthene-d10	9.922	164	91461	20.000	ng	0.00
64) Phenanthrene-d10	11.410	188	177135	20.000	ng	0.00
76) Chrysene-d12	14.057	240	134801	20.000	ng	0.00
86) Perylene-d12	15.551	264	97200	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.493	112	50525	14.771	ng	0.00
7) Phenol-d6	6.504	99	57191	14.172	ng	0.00
23) Nitrobenzene-d5	7.440	82	31050	8.983	ng	0.00
42) 2,4,6-Tribromophenol	10.710	330	15388	16.349	ng	0.00
45) 2-Fluorobiphenyl	9.240	172	68935	9.901	ng	0.00
79) Terphenyl-d14	12.992	244	92333	9.464	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	8.187	128	24328	2.622	ng	97
52) Acenaphthene	9.951	154	16365	3.005	ng	97
55) Dibenzofuran	10.128	168	28038	3.591	ng	98
58) Fluorene	10.469	166	30579	5.014	ng	98
71) Phenanthrene	11.439	178	416247	43.380	ng	99
72) Anthracene	11.486	178	134980	13.716	ng	99
73) Carbazole	11.639	167	59934	7.057	ng	99
75) Fluoranthene	12.628	202	526609	57.828	ng	99
78) Pyrene	12.857	202	470619	37.246	ng	98
81) Benzo(a)anthracene	14.045	228	223618	24.590	ng	98
83) Chrysene	14.080	228	150234	18.514	ng	97
87) Indeno(1,2,3-cd)pyrene	17.057	276	72190	9.751	ng	94
88) Benzo(b)fluoranthene	15.116	252	157806m	28.057	ng	
89) Benzo(k)fluoranthene	15.127	252	58536m	11.124	ng	
90) Benzo(a)pyrene	15.486	252	123619	22.751	ng	# 94
91) Dibenzo(a,h)anthracene	17.068	278	16121	2.680	ng	# 71
92) Benzo(g,h,i)perylene	17.515	276	69419	11.573	ng	97

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

Quant Time: Jun 25 01:30:41 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

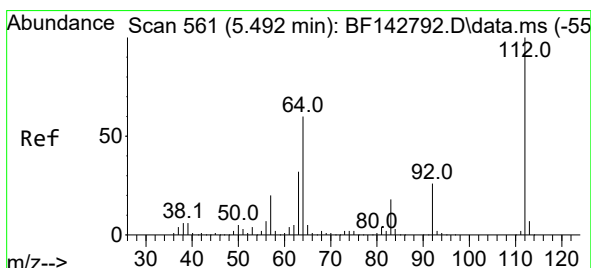
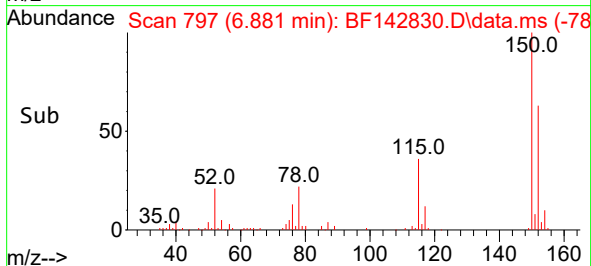
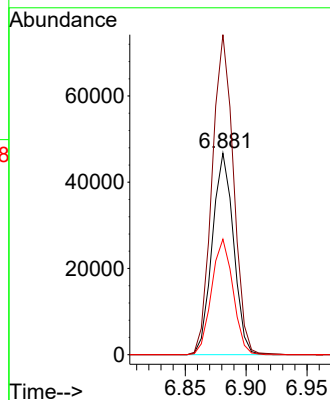
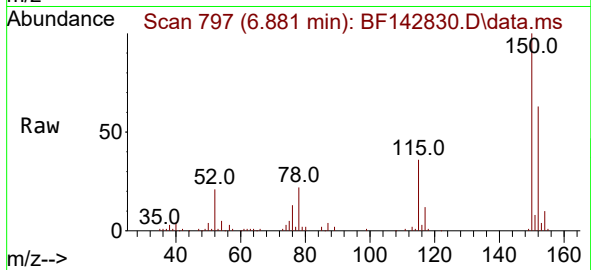




#1
 1,4-Dichlorobenzene-d4
 Concen: 20.000 ng
 RT: 6.881 min Scan# 797
 Delta R.T. -0.000 min
 Lab File: BF142830.D
 Acq: 24 Jun 2025 20:38

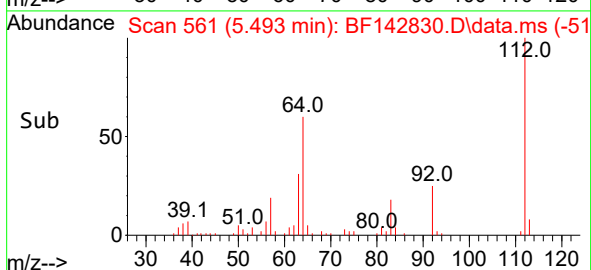
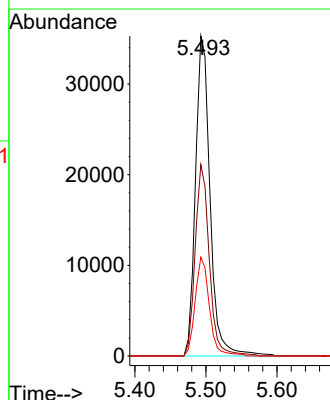
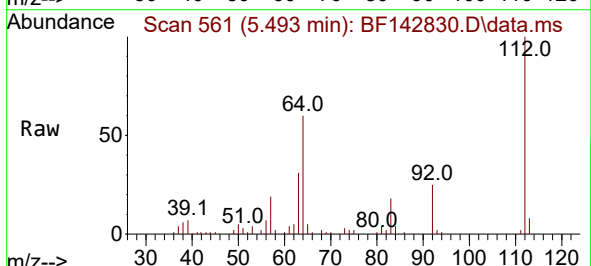
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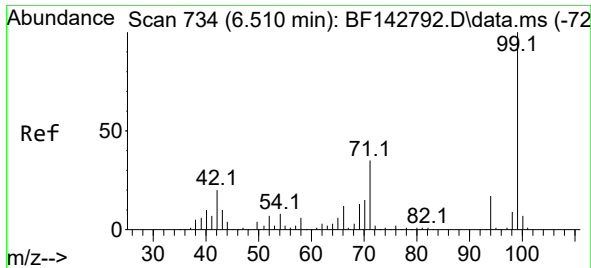
Tgt Ion:152 Resp: 56948
 Ion Ratio Lower Upper
 152 100
 150 158.8 127.2 190.8
 115 57.4 46.6 69.8



#5
 2-Fluorophenol
 Concen: 14.771 ng
 RT: 5.493 min Scan# 561
 Delta R.T. 0.001 min
 Lab File: BF142830.D
 Acq: 24 Jun 2025 20:38

Tgt Ion:112 Resp: 50525
 Ion Ratio Lower Upper
 112 100
 64 59.8 48.2 72.2
 63 30.8 25.7 38.5

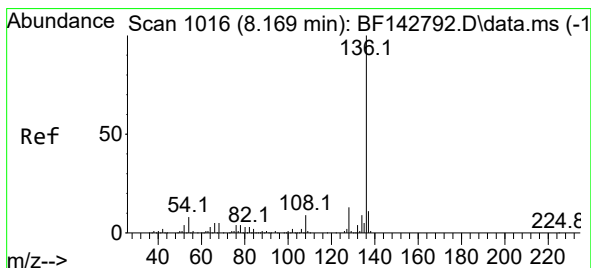
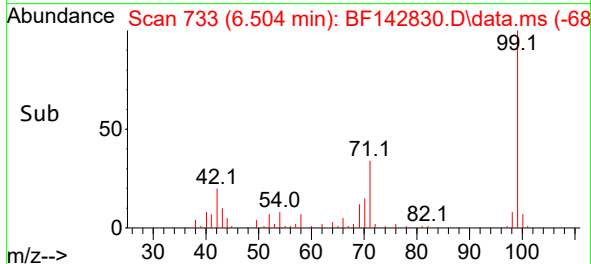
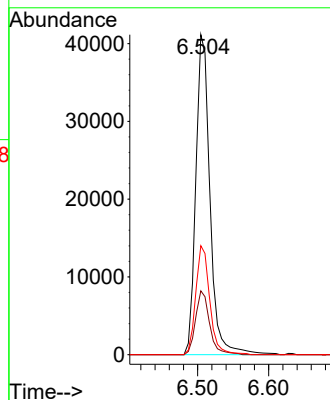
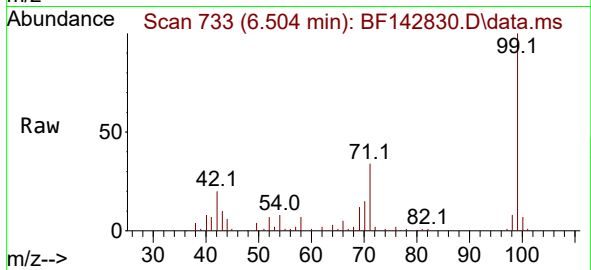




#7
Phenol-d6
Concen: 14.172 ng
RT: 6.504 min Scan# 71
Delta R.T. -0.006 min
Lab File: BF142830.D
Acq: 24 Jun 2025 20:38

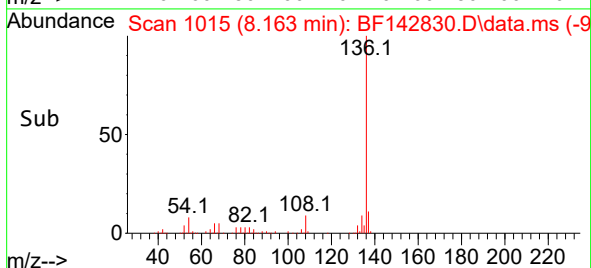
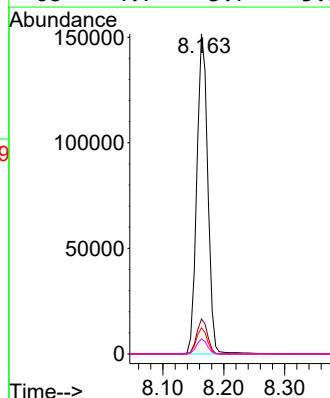
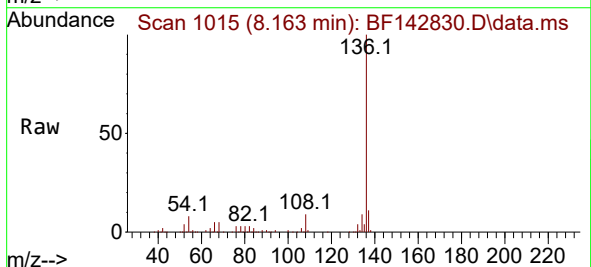
Instrument :
BNA_F
ClientSampleId :
RBR-200059

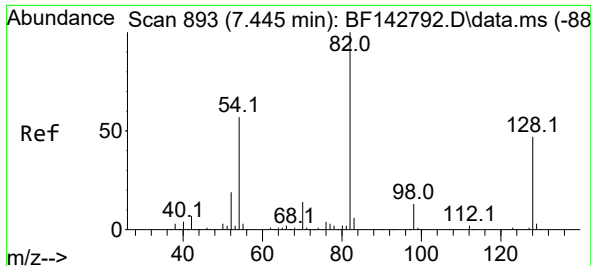
Tgt Ion: 99 Resp: 57191
Ion Ratio Lower Upper
99 100
42 20.0 15.9 23.9
71 34.1 27.8 41.8



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.163 min Scan# 1015
Delta R.T. -0.006 min
Lab File: BF142830.D
Acq: 24 Jun 2025 20:38

Tgt Ion: 136 Resp: 189584
Ion Ratio Lower Upper
136 100
137 10.9 8.4 12.6
54 8.2 6.3 9.5
68 4.7 3.7 5.5

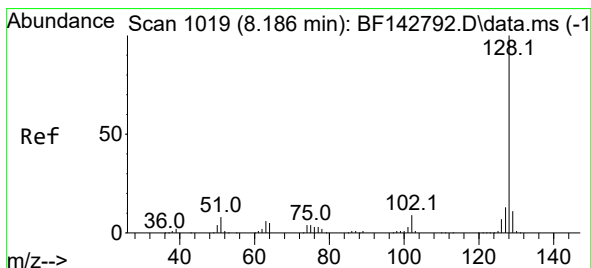
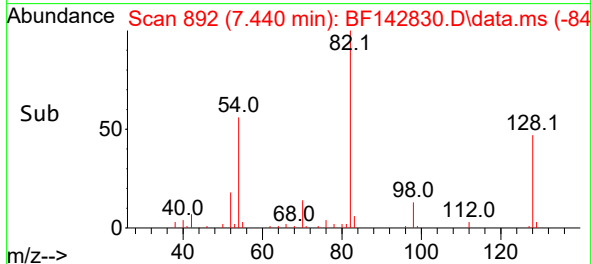
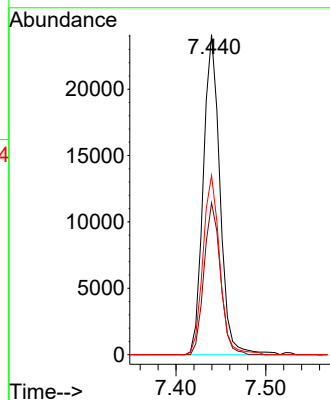
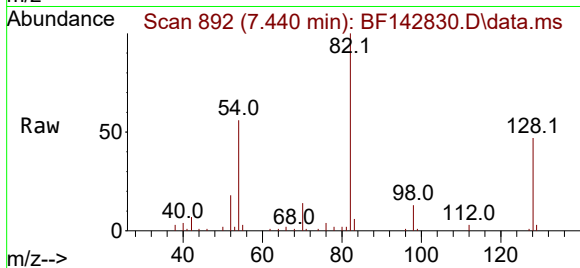




#23
 Nitrobenzene-d5
 Concen: 8.983 ng
 RT: 7.440 min Scan# 893
 Delta R.T. -0.005 min
 Lab File: BF142830.D
 Acq: 24 Jun 2025 20:38

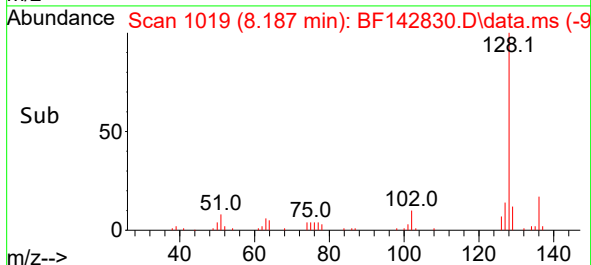
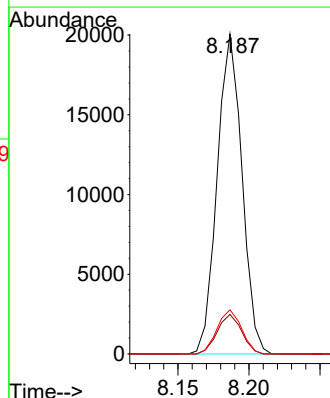
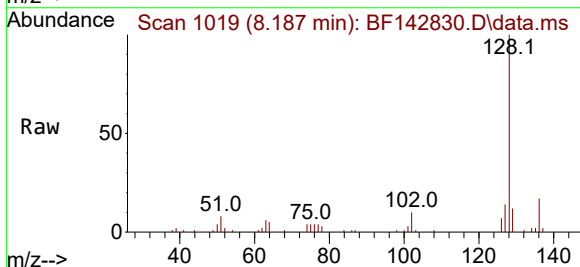
Instrument :
 BNA_F
 ClientSampleId :
 RBR-200059

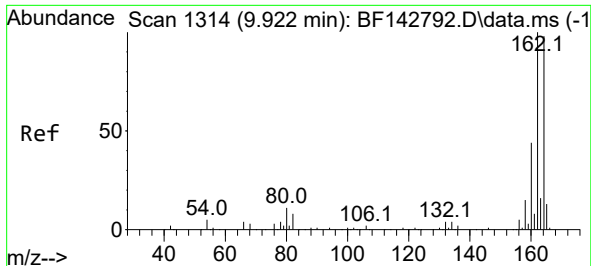
Tgt Ion: 82 Resp: 31050
 Ion Ratio Lower Upper
 82 100
 128 47.5 37.7 56.5
 54 56.0 45.7 68.5



#31
 Naphthalene
 Concen: 2.622 ng
 RT: 8.187 min Scan# 1019
 Delta R.T. 0.000 min
 Lab File: BF142830.D
 Acq: 24 Jun 2025 20:38

Tgt Ion: 128 Resp: 24328
 Ion Ratio Lower Upper
 128 100
 129 12.3 8.9 13.3
 127 13.8 10.4 15.6





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.922 min Scan# 11

Delta R.T. 0.000 min

Lab File: BF142830.D

Acq: 24 Jun 2025 20:38

Instrument :

BNA_F

ClientSampleId :

RBR-200059

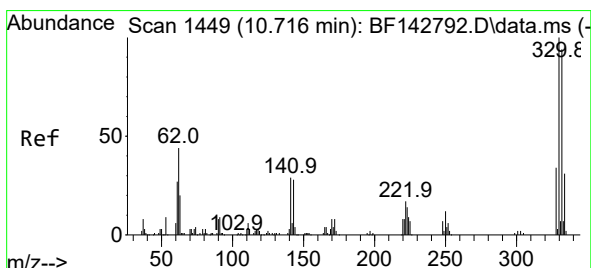
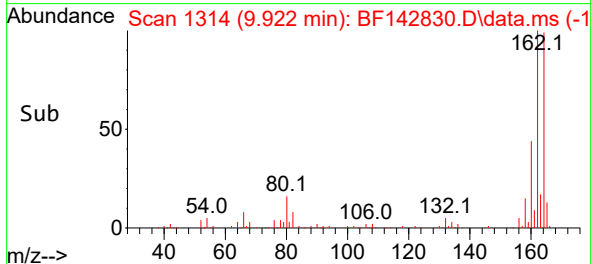
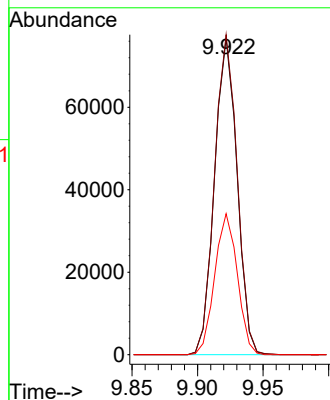
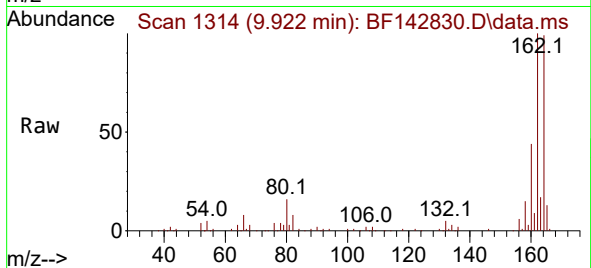
Tgt Ion:164 Resp: 91461

Ion Ratio Lower Upper

164 100

162 101.2 81.8 122.8

160 44.6 36.0 54.0



#42

2,4,6-Tribromophenol

Concen: 16.349 ng

RT: 10.710 min Scan# 1448

Delta R.T. -0.006 min

Lab File: BF142830.D

Acq: 24 Jun 2025 20:38

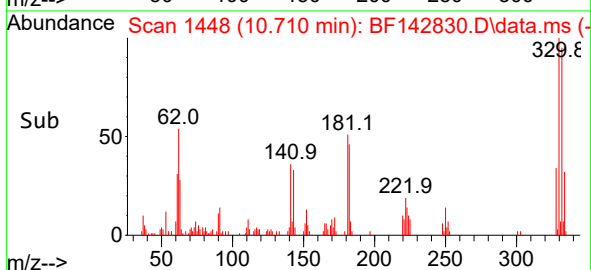
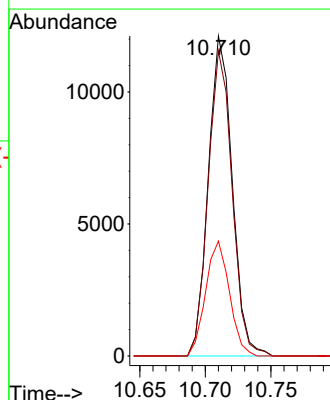
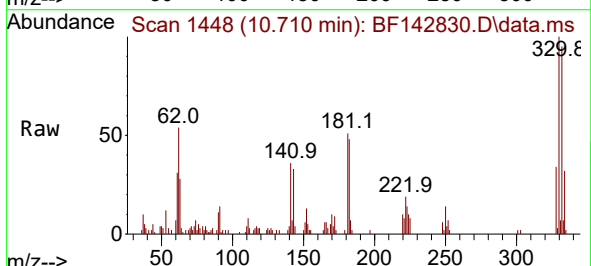
Tgt Ion:330 Resp: 15388

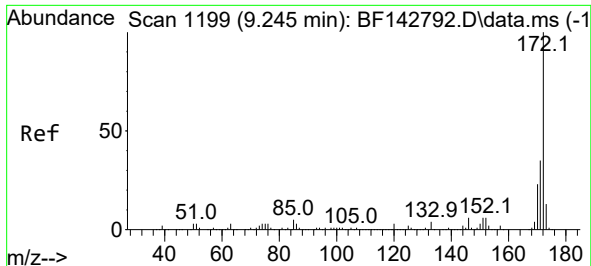
Ion Ratio Lower Upper

330 100

332 95.4 75.0 112.6

141 35.7 25.3 37.9





#45

2-Fluorobiphenyl

Concen: 9.901 ng

RT: 9.240 min Scan# 1199

Delta R.T. -0.005 min

Lab File: BF142830.D

Acq: 24 Jun 2025 20:38

Instrument :

BNA_F

ClientSampleId :

RBR-200059

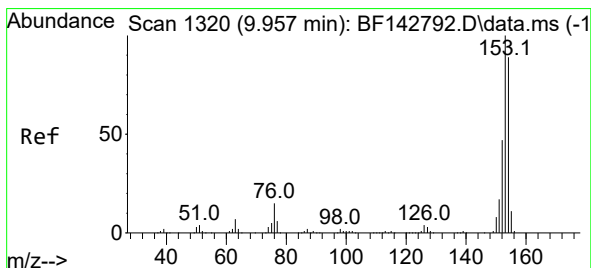
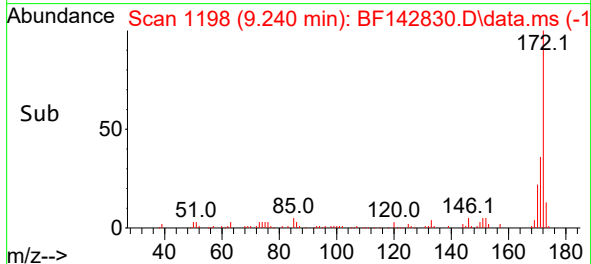
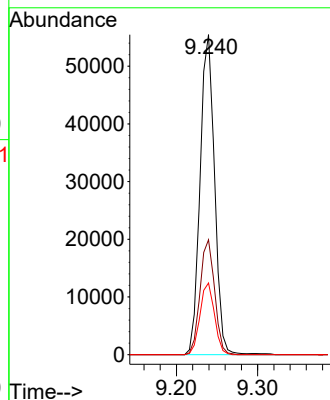
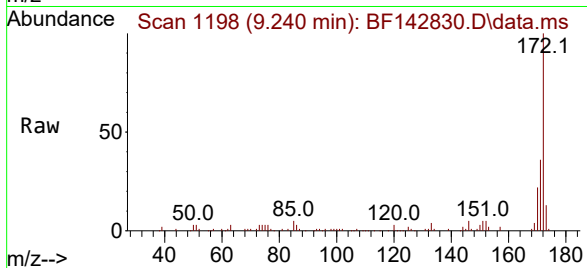
Tgt Ion:172 Resp: 68935

Ion Ratio Lower Upper

172 100

171 35.9 28.2 42.4

170 22.4 18.5 27.7



#52

Acenaphthene

Concen: 3.005 ng

RT: 9.951 min Scan# 1319

Delta R.T. -0.006 min

Lab File: BF142830.D

Acq: 24 Jun 2025 20:38

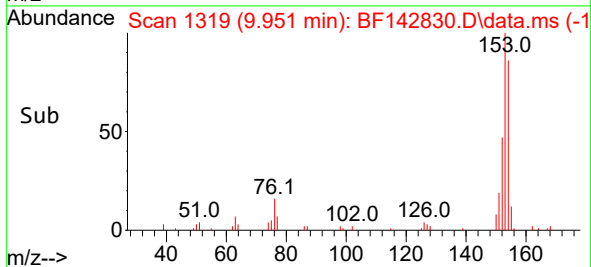
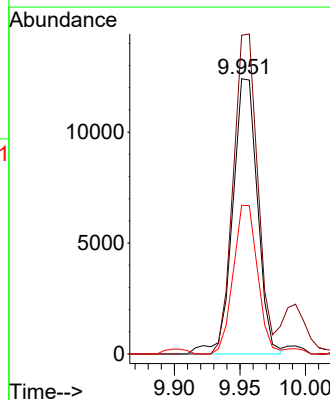
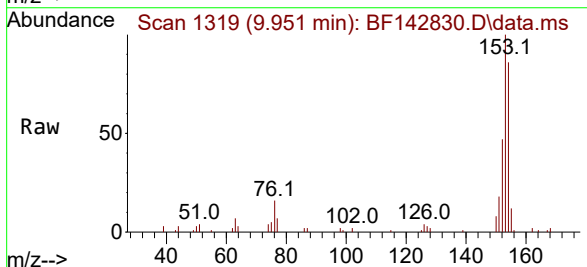
Tgt Ion:154 Resp: 16365

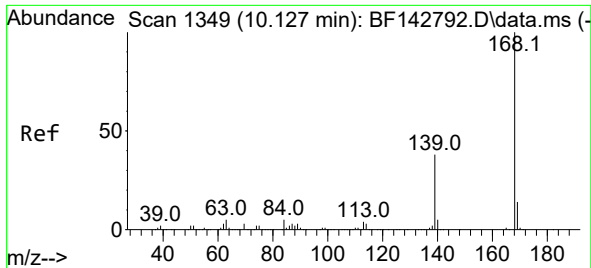
Ion Ratio Lower Upper

154 100

153 115.8 90.0 135.0

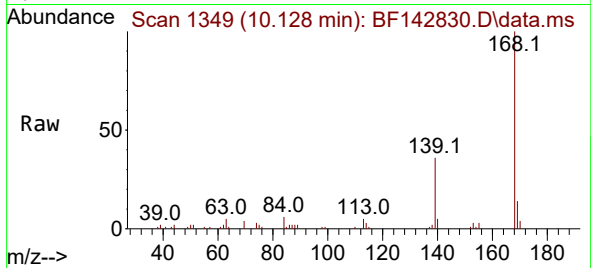
152 54.0 41.9 62.9



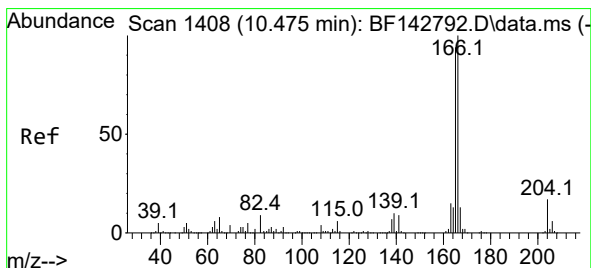
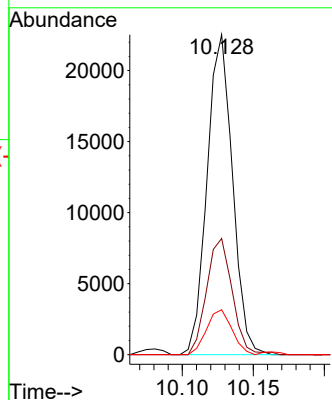
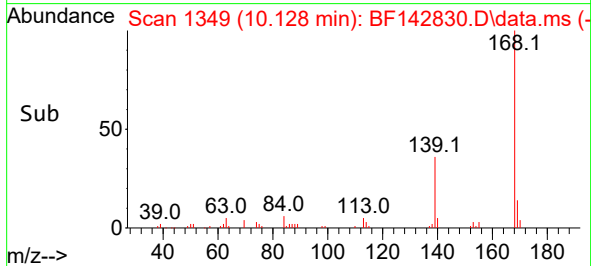


#55
Dibenzenofuran
Concen: 3.591 ng
RT: 10.128 min Scan# 11
Delta R.T. 0.000 min
Lab File: BF142830.D
Acq: 24 Jun 2025 20:38

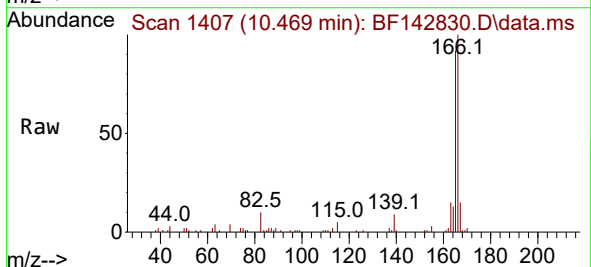
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BNA_F
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RBR-200059



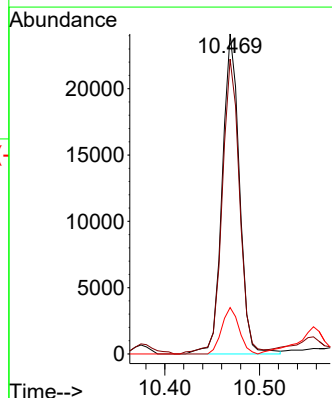
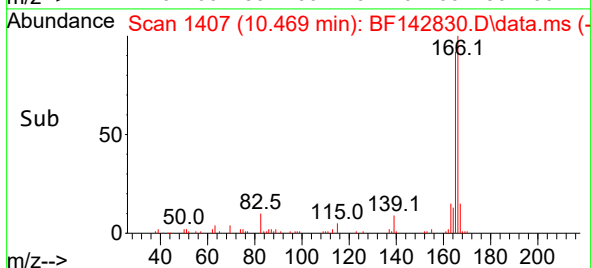
Tgt Ion:168 Resp: 28038
Ion Ratio Lower Upper
168 100
139 36.3 30.2 45.4
169 14.0 10.8 16.2

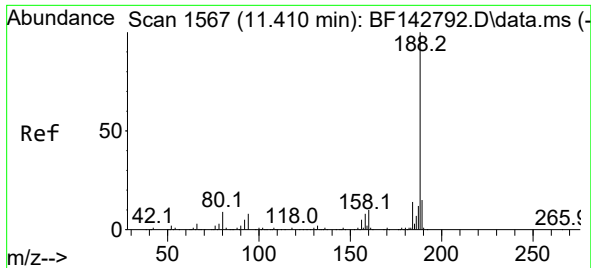


#58
Fluorene
Concen: 5.014 ng
RT: 10.469 min Scan# 1407
Delta R.T. -0.006 min
Lab File: BF142830.D
Acq: 24 Jun 2025 20:38



Tgt Ion:166 Resp: 30579
Ion Ratio Lower Upper
166 100
165 92.1 75.2 112.8
167 14.5 10.6 15.8

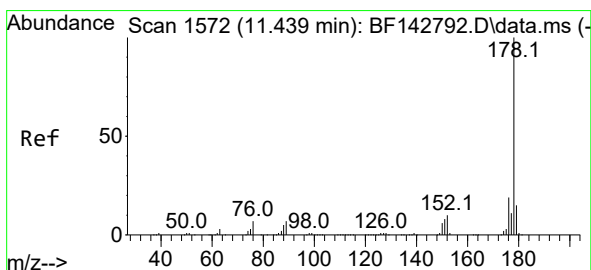
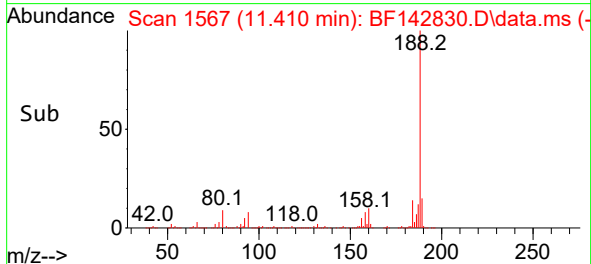
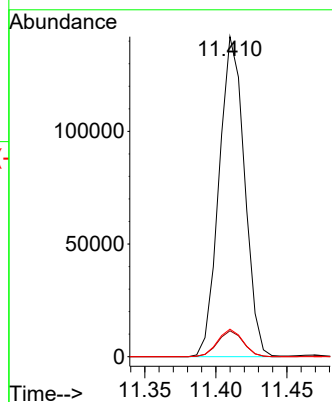
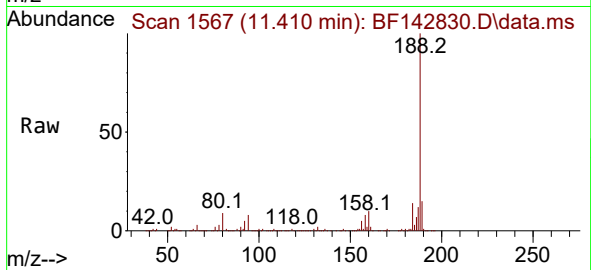




#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.410 min Scan# 1567
Delta R.T. 0.000 min
Lab File: BF142830.D
Acq: 24 Jun 2025 20:38

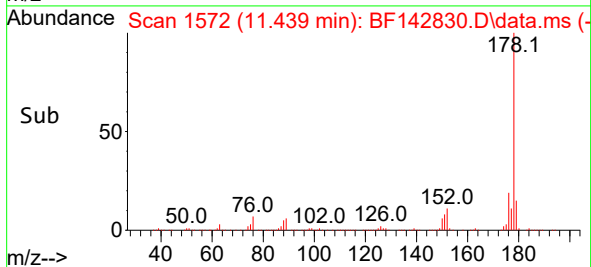
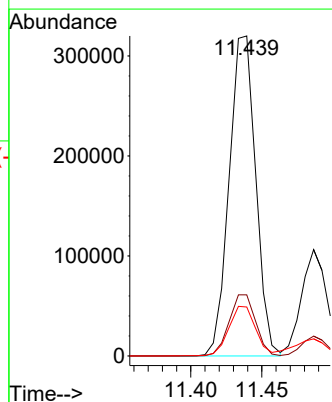
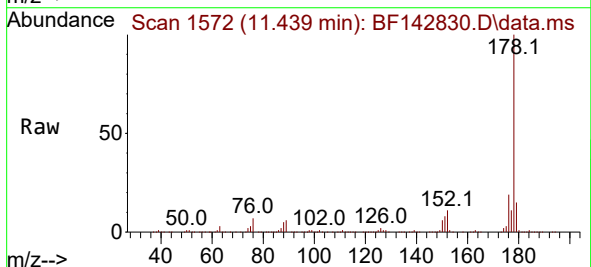
Instrument :
BNA_F
ClientSampleId :
RBR-200059

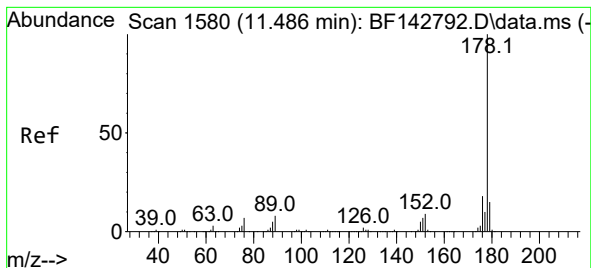
Tgt Ion:188 Resp: 177135
Ion Ratio Lower Upper
188 100
94 8.1 6.7 10.1
80 8.6 6.9 10.3



#71
Phenanthrene
Concen: 43.380 ng
RT: 11.439 min Scan# 1572
Delta R.T. 0.000 min
Lab File: BF142830.D
Acq: 24 Jun 2025 20:38

Tgt Ion:178 Resp: 416247
Ion Ratio Lower Upper
178 100
176 19.1 15.1 22.7
179 15.3 12.0 18.0





#72

Anthracene

Concen: 13.716 ng

RT: 11.486 min Scan# 1

Delta R.T. 0.000 min

Lab File: BF142830.D

Acq: 24 Jun 2025 20:38

Instrument :

BNA_F

ClientSampleId :

RBR-200059

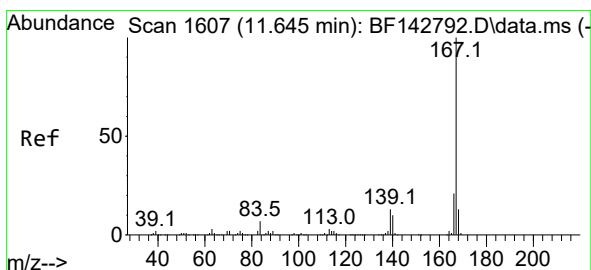
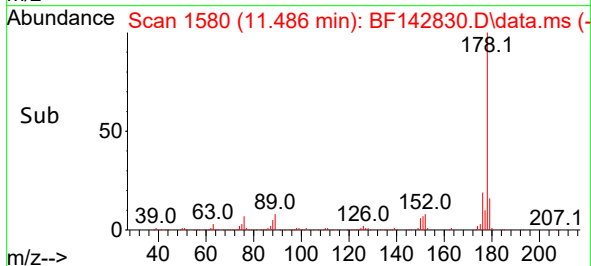
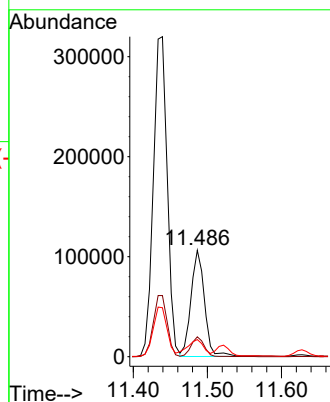
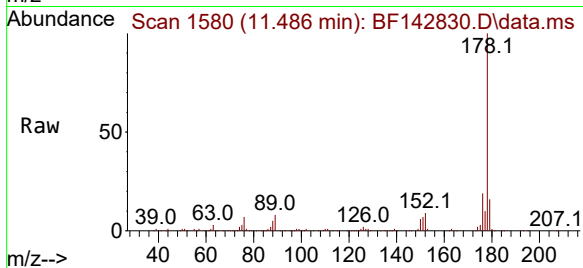
Tgt Ion:178 Resp: 134980

Ion Ratio Lower Upper

178 100

176 18.6 14.6 21.8

179 16.0 12.4 18.6



#73

Carbazole

Concen: 7.057 ng

RT: 11.639 min Scan# 1606

Delta R.T. -0.006 min

Lab File: BF142830.D

Acq: 24 Jun 2025 20:38

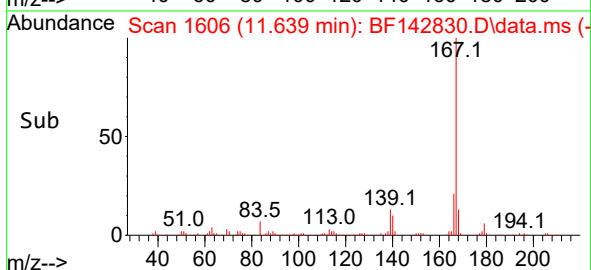
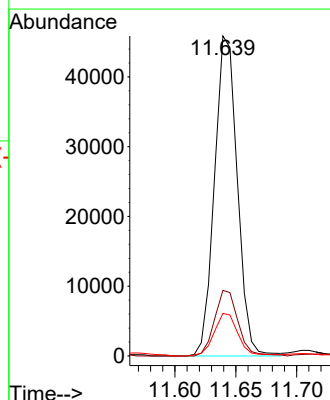
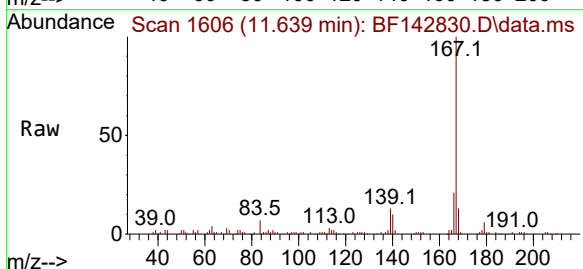
Tgt Ion:167 Resp: 59934

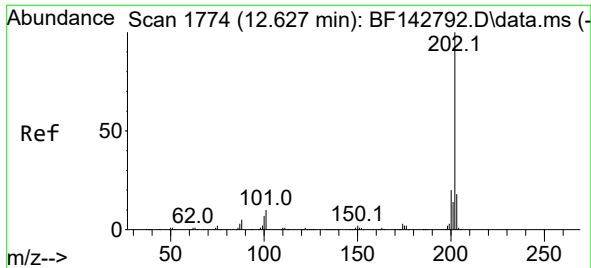
Ion Ratio Lower Upper

167 100

166 20.5 17.0 25.4

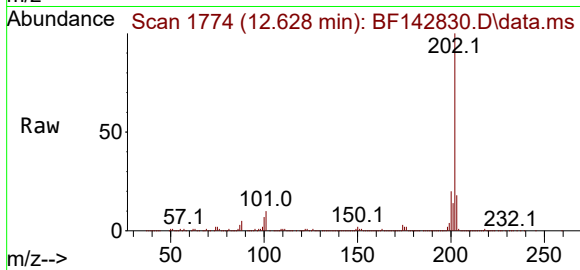
139 13.3 10.2 15.2



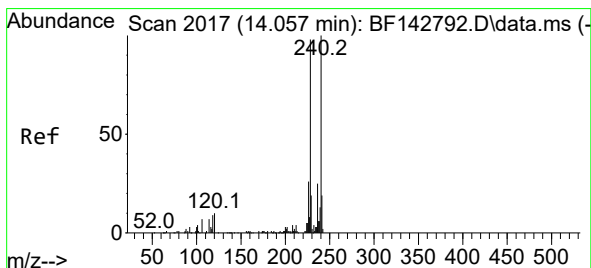
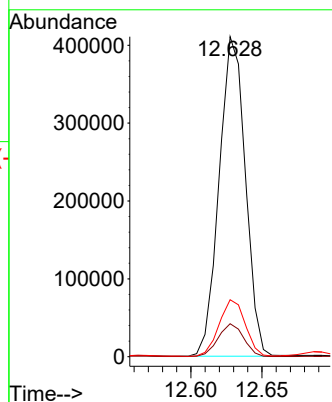
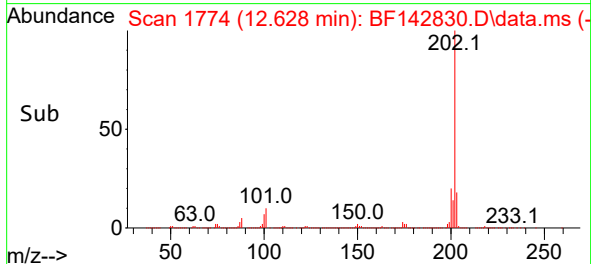


#75
Fluoranthene
Concen: 57.828 ng
RT: 12.628 min Scan# 1774
Delta R.T. 0.000 min
Lab File: BF142830.D
Acq: 24 Jun 2025 20:38

Instrument :
BNA_F
ClientSampleId :
RBR-200059

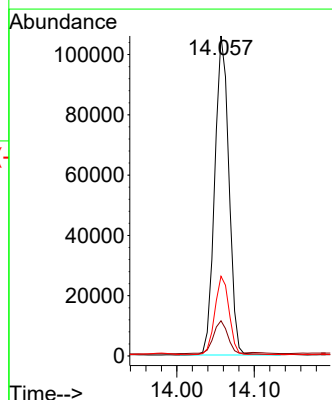
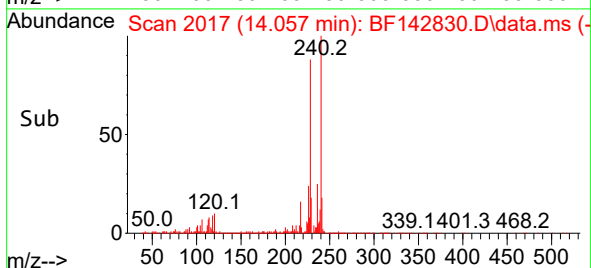
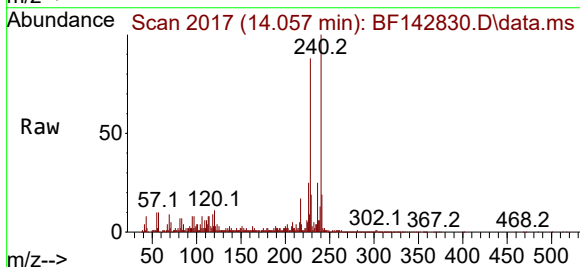


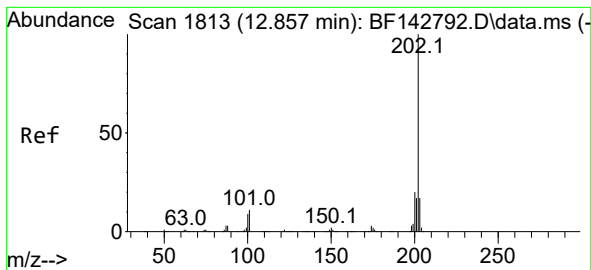
Tgt Ion:202 Resp: 526609
Ion Ratio Lower Upper
202 100
101 10.3 0.0 29.7
203 17.8 0.0 37.5



#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.057 min Scan# 2017
Delta R.T. 0.000 min
Lab File: BF142830.D
Acq: 24 Jun 2025 20:38

Tgt Ion:240 Resp: 134801
Ion Ratio Lower Upper
240 100
120 11.0 8.2 12.2
236 24.9 19.8 29.8





#78

Pyrene

Concen: 37.246 ng

RT: 12.857 min Scan# 1813

Delta R.T. 0.000 min

Lab File: BF142830.D

Acq: 24 Jun 2025 20:38

Instrument :

BNA_F

ClientSampleId :

RBR-200059

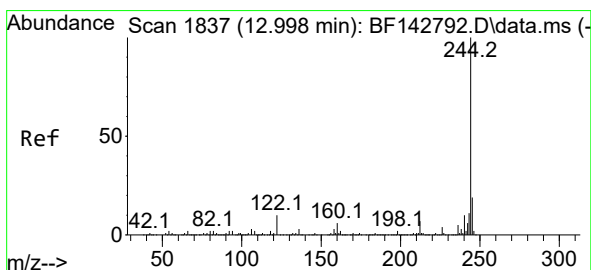
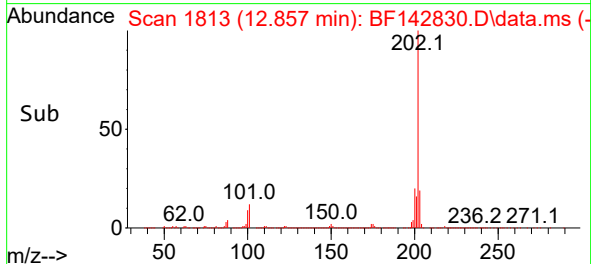
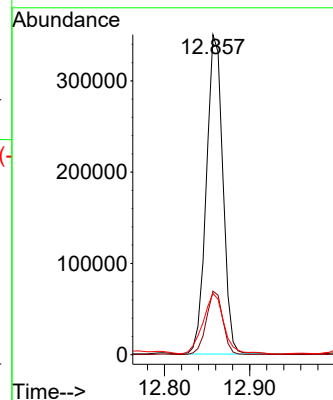
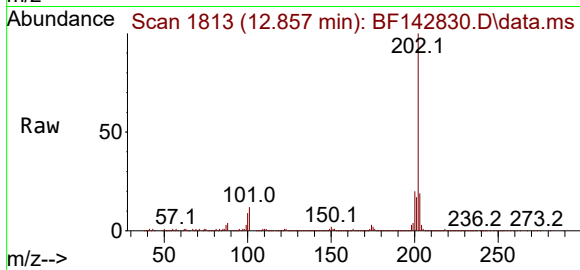
Tgt Ion:202 Resp: 470619

Ion Ratio Lower Upper

202 100

200 19.9 15.7 23.5

203 19.1 13.8 20.6



#79

Terphenyl-d14

Concen: 9.464 ng

RT: 12.992 min Scan# 1836

Delta R.T. -0.006 min

Lab File: BF142830.D

Acq: 24 Jun 2025 20:38

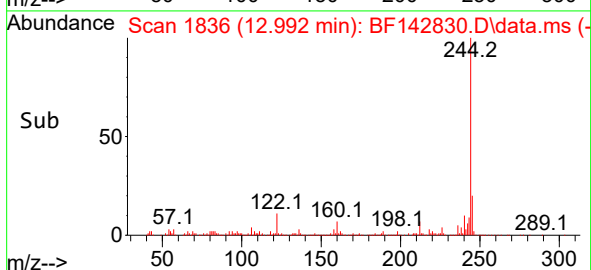
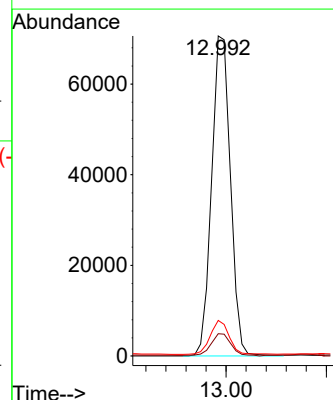
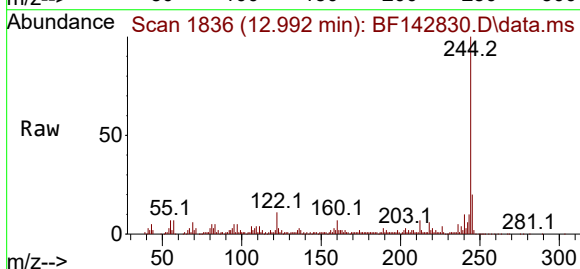
Tgt Ion:244 Resp: 92333

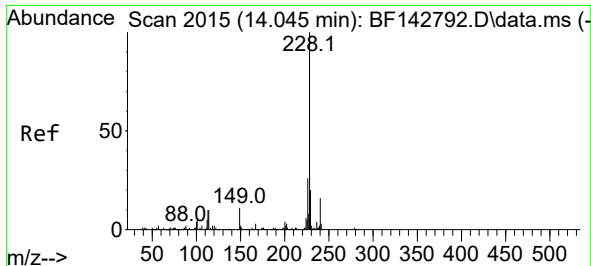
Ion Ratio Lower Upper

244 100

212 6.9 5.4 8.0

122 11.1 8.2 12.2

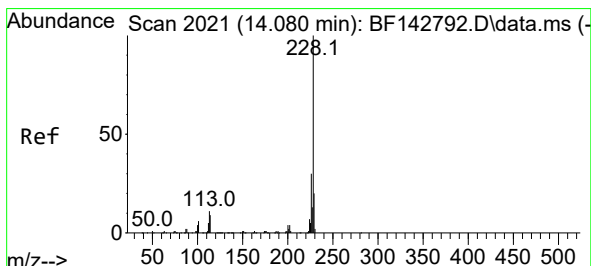
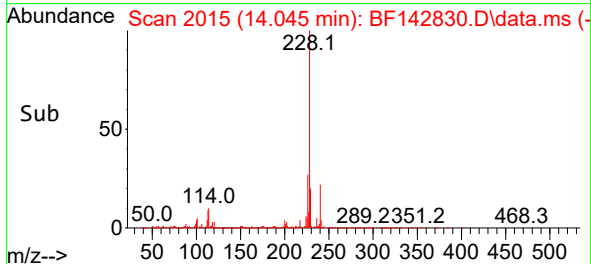
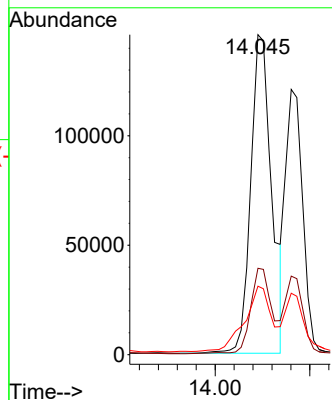
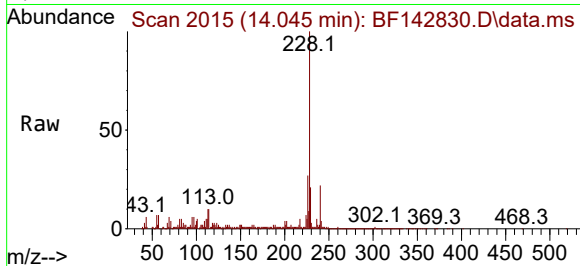




#81
Benzo(a)anthracene
Concen: 24.590 ng
RT: 14.045 min Scan# 2015
Delta R.T. 0.000 min
Lab File: BF142830.D
Acq: 24 Jun 2025 20:38

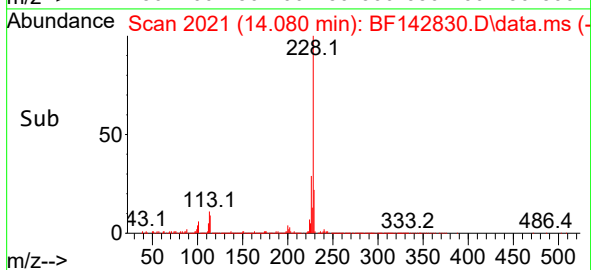
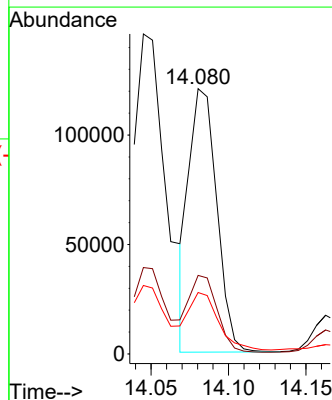
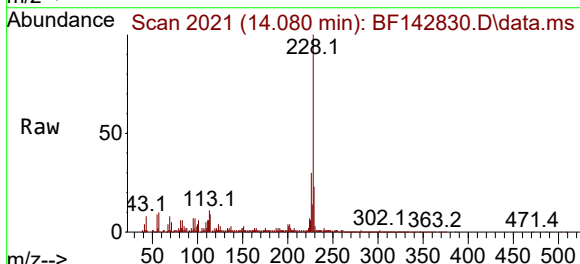
Instrument :
BNA_F
ClientSampleId :
RBR-200059

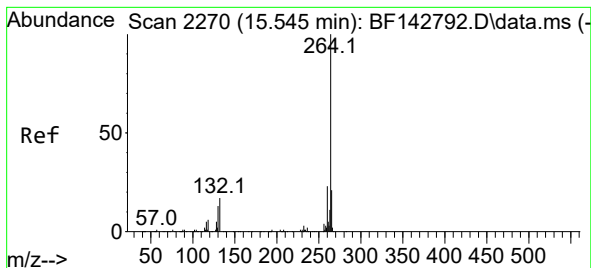
Tgt Ion:228 Resp: 223618
Ion Ratio Lower Upper
228 100
226 27.0 21.2 31.8
229 21.4 15.6 23.4



#83
Chrysene
Concen: 18.514 ng
RT: 14.080 min Scan# 2021
Delta R.T. 0.000 min
Lab File: BF142830.D
Acq: 24 Jun 2025 20:38

Tgt Ion:228 Resp: 150234
Ion Ratio Lower Upper
228 100
226 29.6 23.7 35.5
229 23.2 15.7 23.5





#86

Perylene-d12

Concen: 20.000 ng

RT: 15.551 min Scan# 21

Delta R.T. 0.006 min

Lab File: BF142830.D

Acq: 24 Jun 2025 20:38

Instrument :

BNA_F

ClientSampleId :

RBR-200059

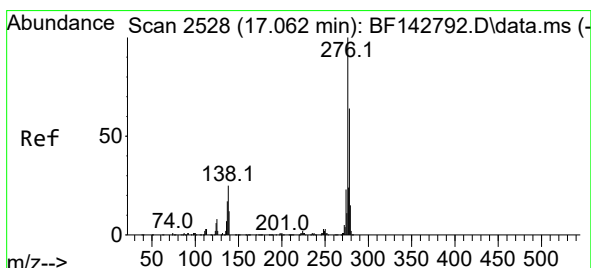
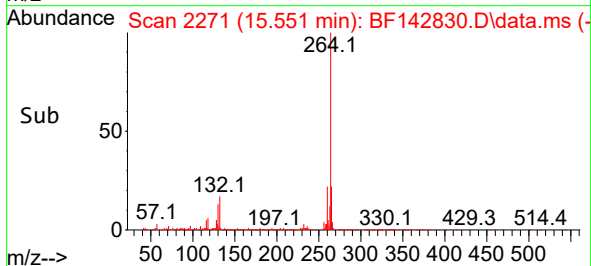
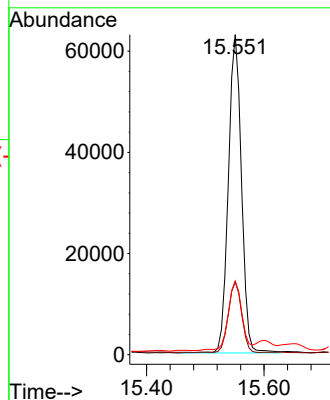
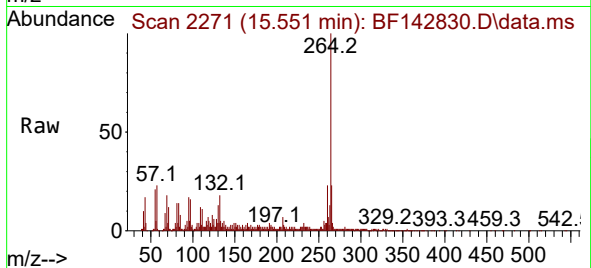
Tgt Ion:264 Resp: 97200

Ion Ratio Lower Upper

264 100

260 22.7 18.1 27.1

265 23.1 16.6 25.0



#87

Indeno(1,2,3-cd)pyrene

Concen: 9.751 ng

RT: 17.057 min Scan# 2527

Delta R.T. -0.006 min

Lab File: BF142830.D

Acq: 24 Jun 2025 20:38

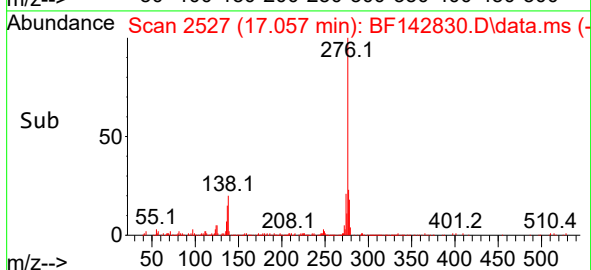
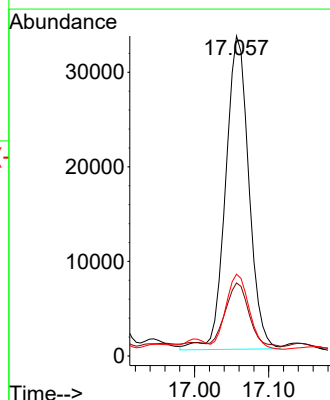
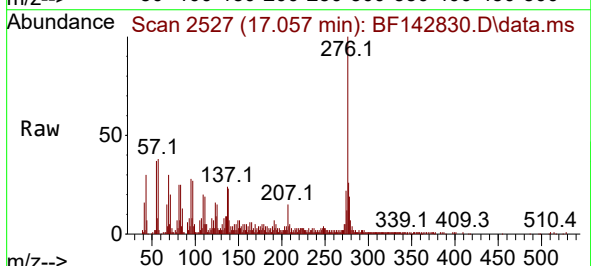
Tgt Ion:276 Resp: 72190

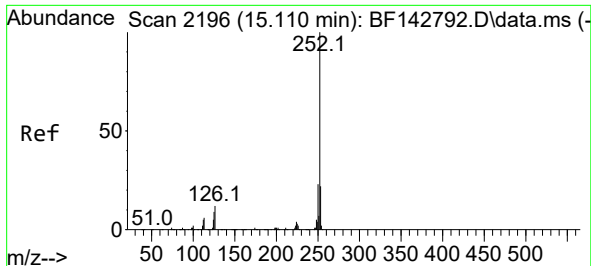
Ion Ratio Lower Upper

276 100

138 20.3 20.2 30.4

277 24.0 19.8 29.6

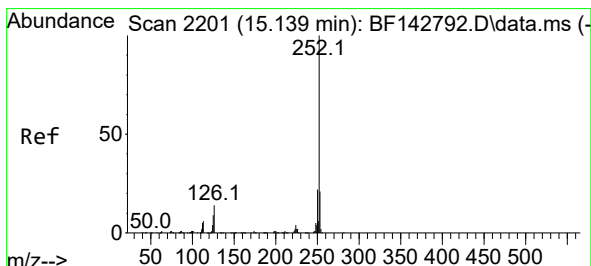
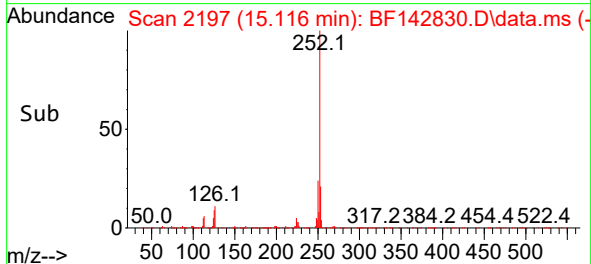
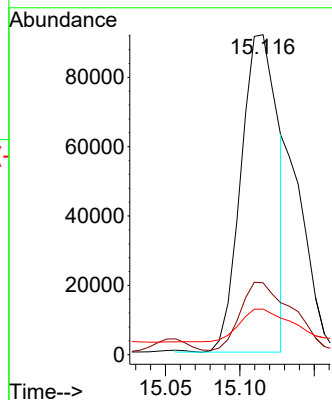
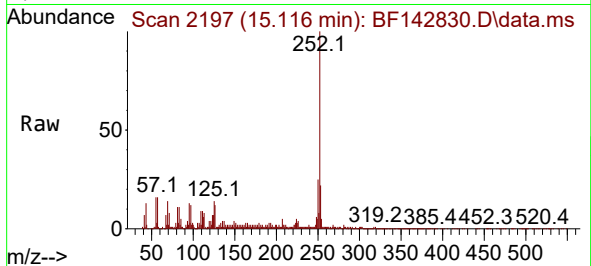




#88
Benzo(b)fluoranthene
Concen: 28.057 ng m
RT: 15.116 min Scan# 2196
Delta R.T. 0.006 min
Lab File: BF142830.D
Acq: 24 Jun 2025 20:38

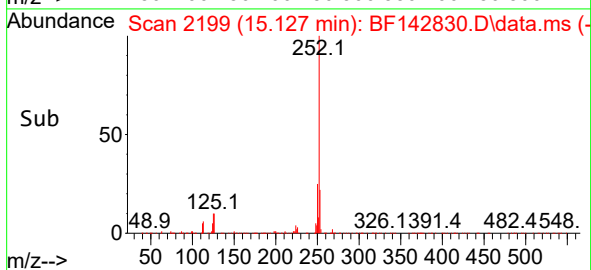
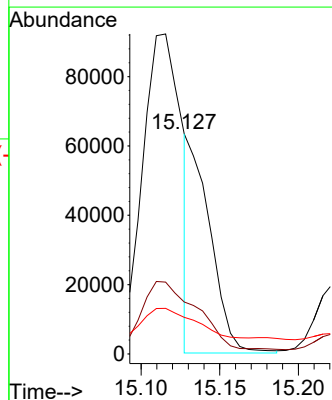
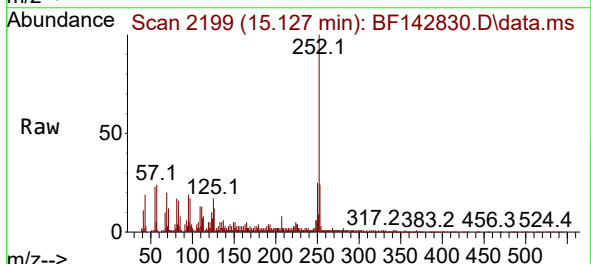
Instrument :
BNA_F
ClientSampleId :
RBR-200059

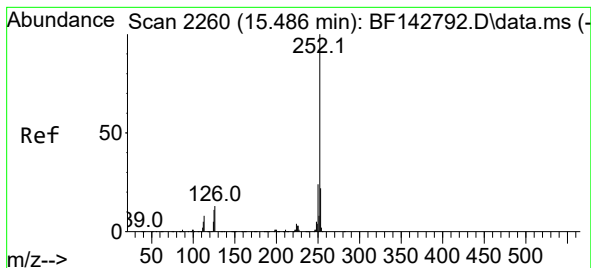
Tgt Ion:252 Resp: 157806
Ion Ratio Lower Upper
252 100
253 22.4 17.5 26.3
125 14.2 7.4 11.0#



#89
Benzo(k)fluoranthene
Concen: 11.124 ng m
RT: 15.127 min Scan# 2199
Delta R.T. -0.012 min
Lab File: BF142830.D
Acq: 24 Jun 2025 20:38

Tgt Ion:252 Resp: 58536
Ion Ratio Lower Upper
252 100
253 23.6 17.2 25.8
125 16.6 7.4 11.2#





#90

Benzo(a)pyrene

Concen: 22.751 ng

RT: 15.486 min Scan# 21

Delta R.T. 0.000 min

Lab File: BF142830.D

Acq: 24 Jun 2025 20:38

Instrument :

BNA_F

ClientSampleId :

RBR-200059

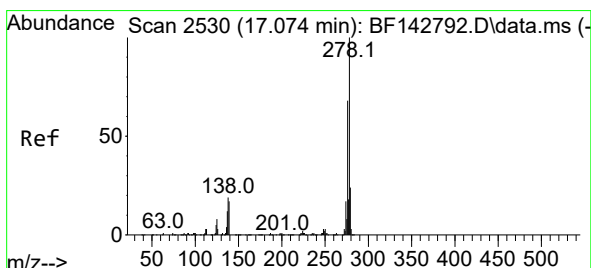
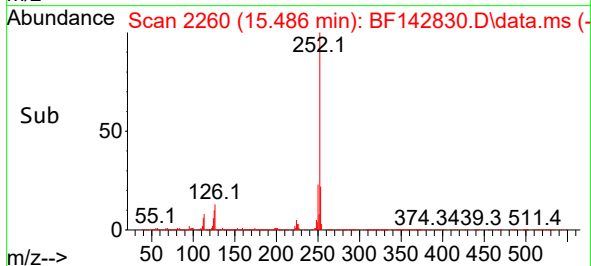
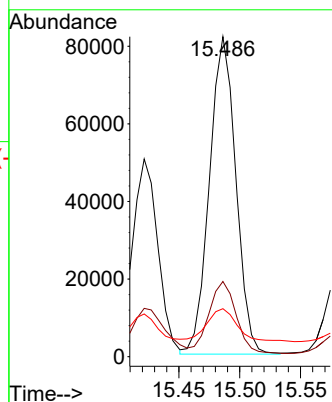
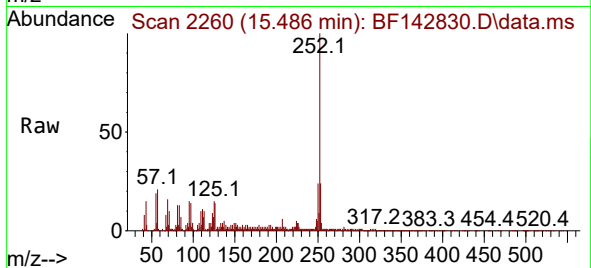
Tgt Ion:252 Resp: 123619

Ion Ratio Lower Upper

252 100

253 23.5 17.5 26.3

125 15.0 8.6 12.8#



#91

Dibenzo(a,h)anthracene

Concen: 2.680 ng

RT: 17.068 min Scan# 2529

Delta R.T. -0.006 min

Lab File: BF142830.D

Acq: 24 Jun 2025 20:38

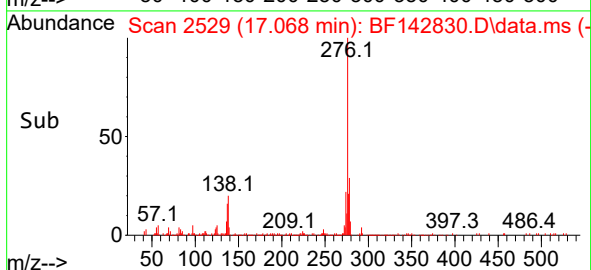
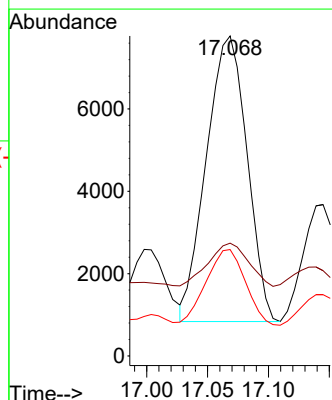
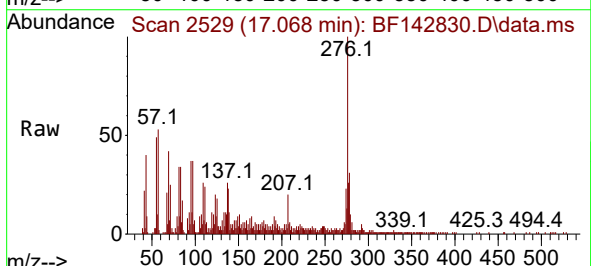
Tgt Ion:278 Resp: 16121

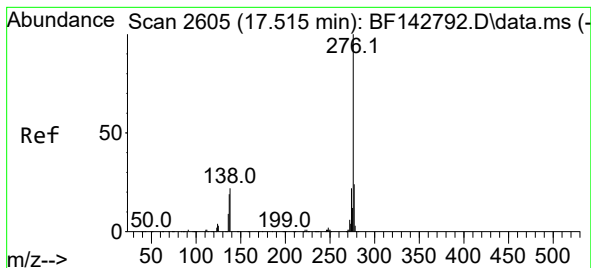
Ion Ratio Lower Upper

278 100

139 35.3 13.5 20.3#

279 33.3 18.8 28.2#





#92

Benzo(g,h,i)perylene

Concen: 11.573 ng

RT: 17.515 min Scan# 20

Delta R.T. 0.000 min

Lab File: BF142830.D

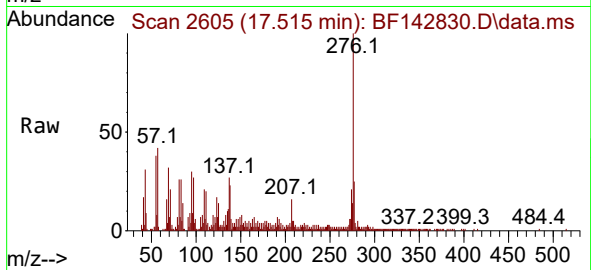
Acq: 24 Jun 2025 20:38

Instrument :

BNA_F

ClientSampleId :

RBR-200059



Tgt Ion:276 Resp: 69419

Ion Ratio Lower Upper

276 100

277 24.5 18.8 28.2

138 23.5 17.6 26.4

