

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF060525\
 Data File : BF142636.D
 Acq On : 05 Jun 2025 16:07
 Operator : RC/JU
 Sample : Q2178-01DL 100X
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Jun 05 16:40:04 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue May 20 16:26:47 2025
 Response via : Initial Calibration

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

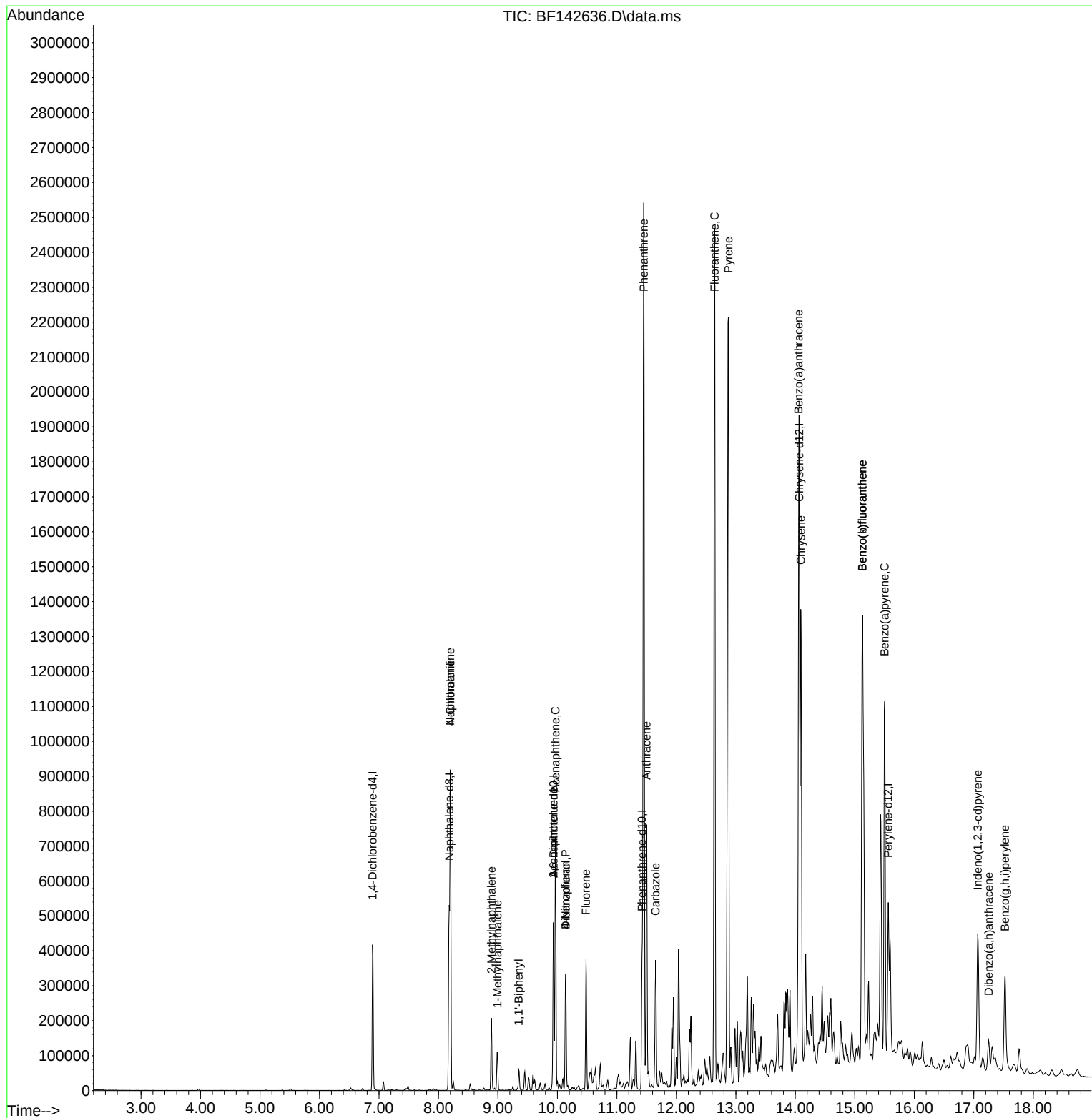
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.892	152	95646	20.000	ng	-0.01
21) Naphthalene-d8	8.180	136	323484	20.000	ng	0.00
39) Acenaphthene-d10	9.933	164	141083	20.000	ng	-0.01
64) Phenanthrene-d10	11.421	188	205066	20.000	ng	-0.01
76) Chrysene-d12	14.068	240	220958	20.000	ng	0.00
86) Perylene-d12	15.562	264	242923	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.510	112	2733	0.481	ng	0.00
7) Phenol-d6	6.522	99	4112	0.602	ng	-0.01
23) Nitrobenzene-d5	7.457	82	2053	0.346	ng	-0.02
42) 2,4,6-Tribromophenol	10.721	330	372	0.238	ng	-0.02
45) 2-Fluorobiphenyl	9.251	172	5288	0.503	ng	-0.02
79) Terphenyl-d14	13.004	244	6280	0.388	ng	-0.01
Target Compounds						Qvalue
31) Naphthalene	8.198	128	563349	35.368	ng	100
33) 4-Chloroaniline	8.198	127	74324	11.516	ng	# 32
37) 2-Methylnaphthalene	8.892	142	81845	8.168	ng	98
38) 1-Methylnaphthalene	8.992	142	43308	4.178	ng	98
46) 1,1'-Biphenyl	9.351	154	26598	2.430	ng	99
51) 2,6-Dinitrotoluene	9.933	165	19698	9.804	ng	# 28
52) Acenaphthene	9.969	154	223943	26.857	ng	100
55) Dibenzofuran	10.139	168	181963	15.165	ng	97
56) 4-Nitrophenol	10.139	139	64319	39.722	ng	# 11
58) Fluorene	10.480	166	147909	15.956	ng	99
71) Phenanthrene	11.451	178	1393361	127.142	ng	99
72) Anthracene	11.498	178	427796	38.248	ng	99
73) Carbazole	11.651	167	201603	21.084	ng	98
75) Fluoranthene	12.645	202	1529804	149.392	ng	98
78) Pyrene	12.874	202	1383214	67.107	ng	98
81) Benzo(a)anthracene	14.057	228	865514	58.661	ng	97
83) Chrysene	14.092	228	691586	52.164	ng	97
87) Indeno(1,2,3-cd)pyrene	17.068	276	287244	15.750	ng	95
88) Benzo(b)fluoranthene	15.127	252	1224001	85.134	ng	# 96
89) Benzo(k)fluoranthene	15.127	252	1224001	90.896	ng	# 96
90) Benzo(a)pyrene	15.504	252	646424	47.699	ng	98
91) Dibenzo(a,h)anthracene	17.250	278	60284	4.076	ng	95
92) Benzo(g,h,i)perylene	17.527	276	243926	16.488	ng	99

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

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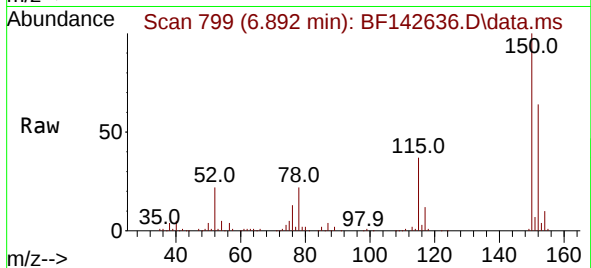
Quant Time: Jun 05 16:40:04 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
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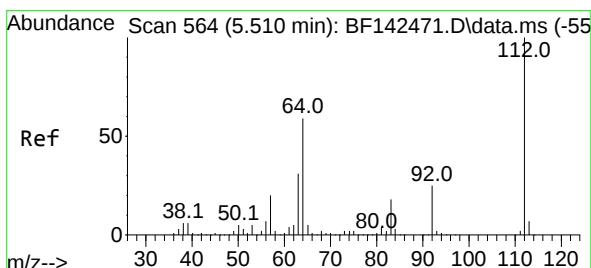
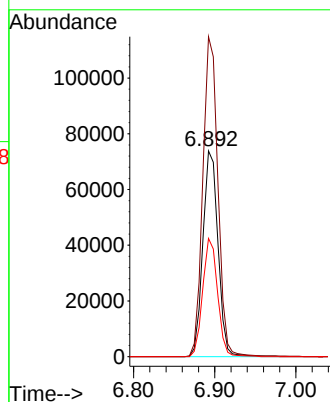
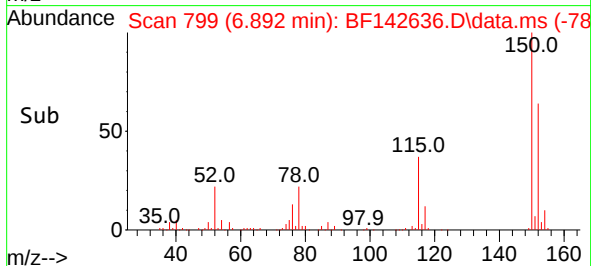


#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.892 min Scan# 79
Delta R.T. -0.012 min
Lab File: BF142636.D
Acq: 05 Jun 2025 16:07

Instrument :
BNA_F
ClientSampleId :

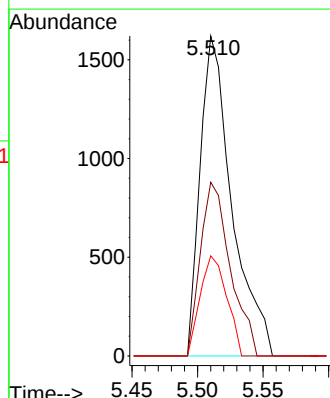
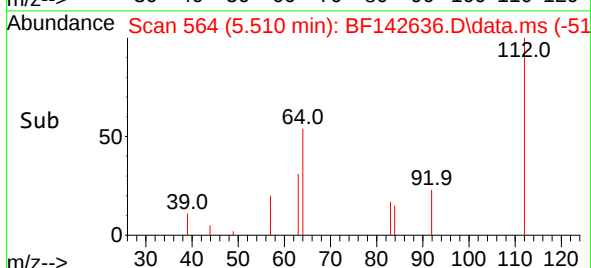
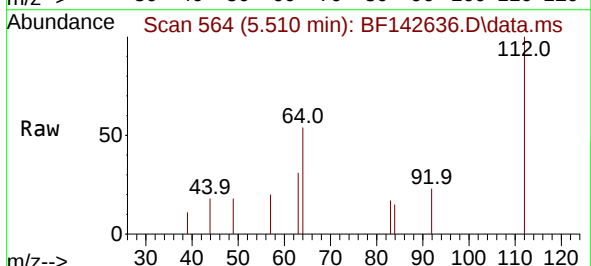


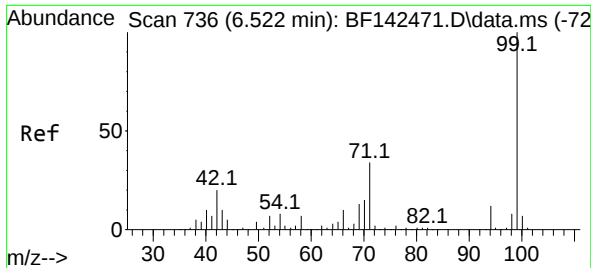
Tgt Ion:152 Resp: 95646
Ion Ratio Lower Upper
152 100
150 155.6 128.2 192.4
115 57.5 48.3 72.5



#5
2-Fluorophenol
Concen: 0.481 ng
RT: 5.510 min Scan# 564
Delta R.T. -0.006 min
Lab File: BF142636.D
Acq: 05 Jun 2025 16:07

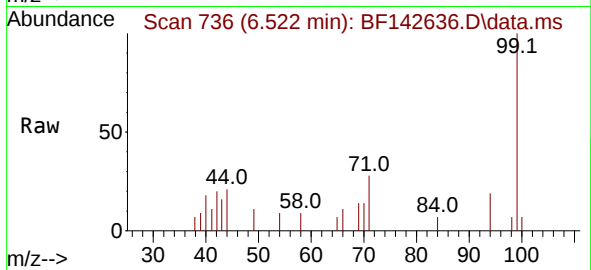
Tgt Ion:112 Resp: 2733
Ion Ratio Lower Upper
112 100
64 54.3 47.5 71.3
63 31.3 24.9 37.3



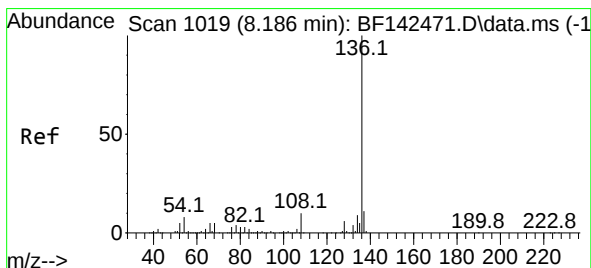
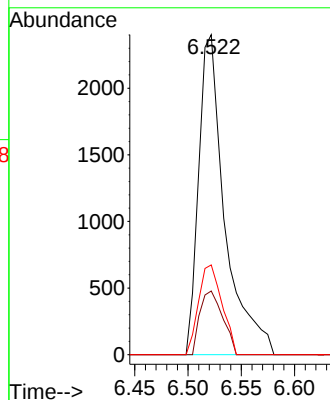
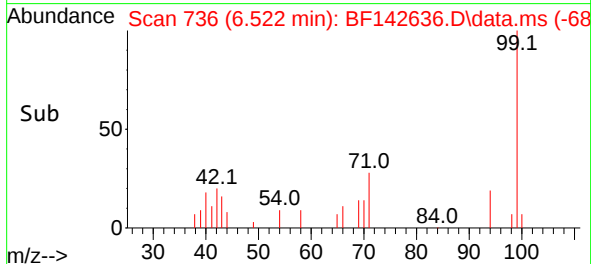


#7
Phenol-d6
Concen: 0.602 ng
RT: 6.522 min Scan# 71
Delta R.T. -0.012 min
Lab File: BF142636.D
Acq: 05 Jun 2025 16:07

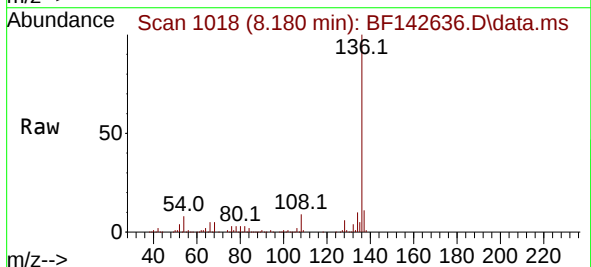
Instrument :
BNA_F
ClientSampleId :



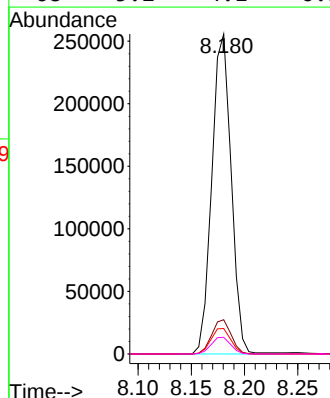
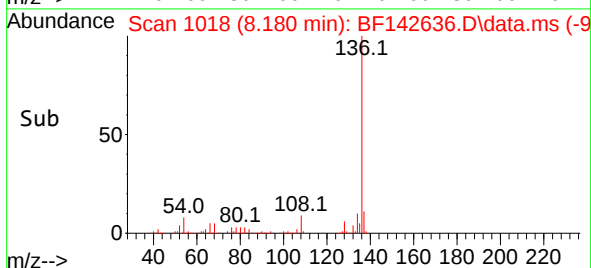
Tgt Ion:	99	Resp:	4112
Ion	Ratio	Lower	Upper
99	100		
42	19.9	16.2	24.2
71	28.1	27.3	40.9

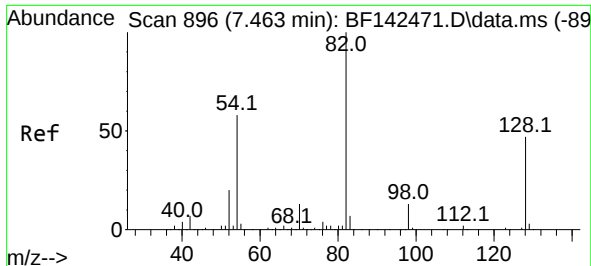


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.180 min Scan# 1018
Delta R.T. -0.006 min
Lab File: BF142636.D
Acq: 05 Jun 2025 16:07



Tgt Ion:	136	Resp:	323484
Ion	Ratio	Lower	Upper
136	100		
137	10.7	8.6	13.0
54	8.0	6.6	10.0
68	5.2	4.1	6.1





#23

Nitrobenzene-d5

Concen: 0.346 ng

RT: 7.457 min Scan# 896

Delta R.T. -0.018 min

Lab File: BF142636.D

Acq: 05 Jun 2025 16:07

Instrument :

BNA_F

ClientSampleId :

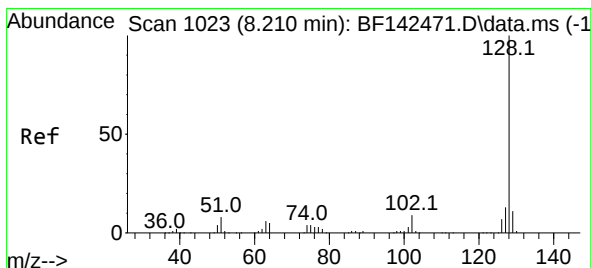
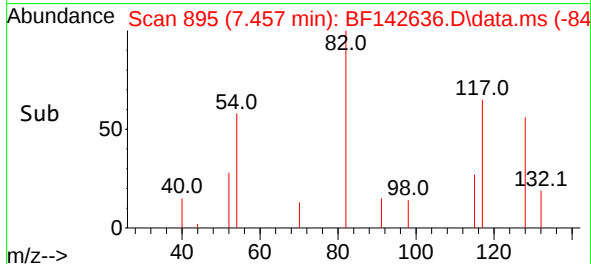
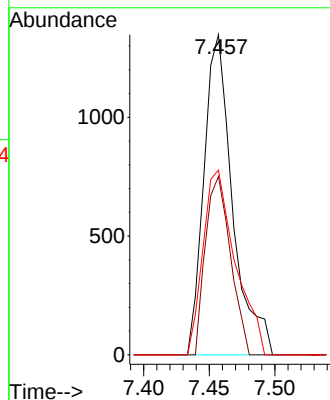
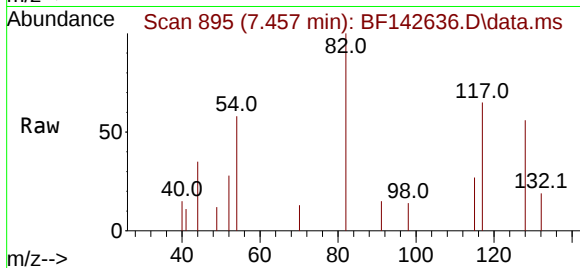
Tgt Ion: 82 Resp: 2053

Ion Ratio Lower Upper

82 100

128 55.7 37.4 56.2

54 57.7 46.6 70.0



#31

Naphthalene

Concen: 35.368 ng

RT: 8.198 min Scan# 1021

Delta R.T. -0.012 min

Lab File: BF142636.D

Acq: 05 Jun 2025 16:07

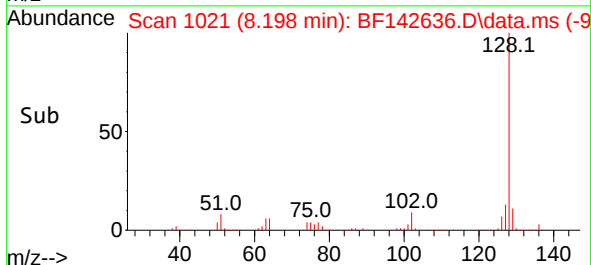
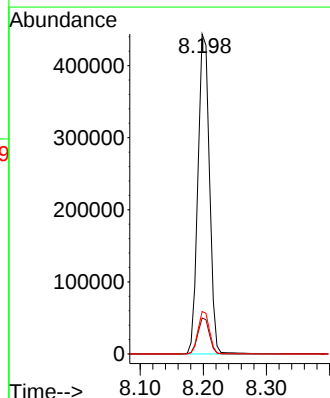
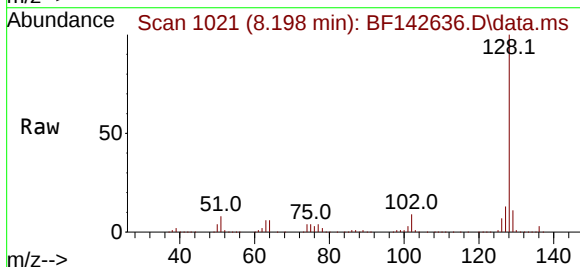
Tgt Ion: 128 Resp: 563349

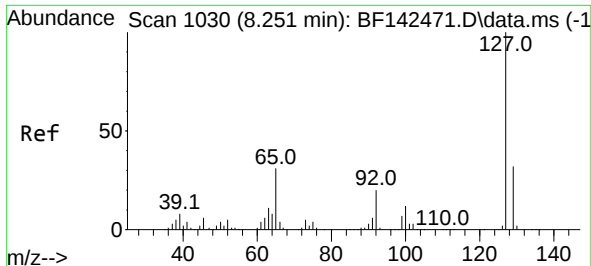
Ion Ratio Lower Upper

128 100

129 11.3 8.9 13.3

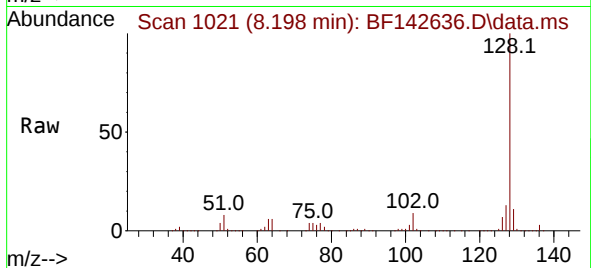
127 13.2 10.5 15.7



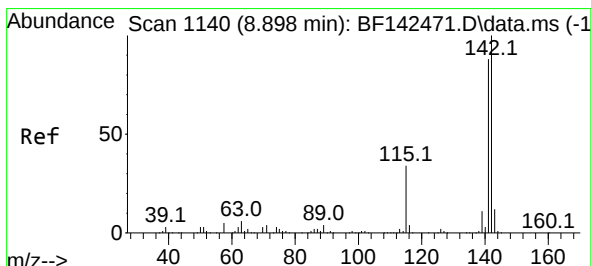
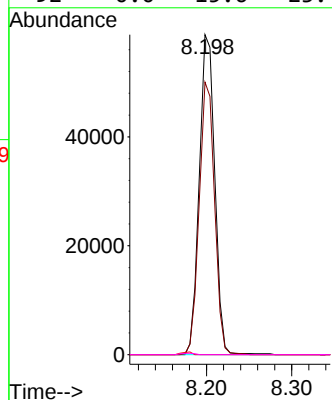
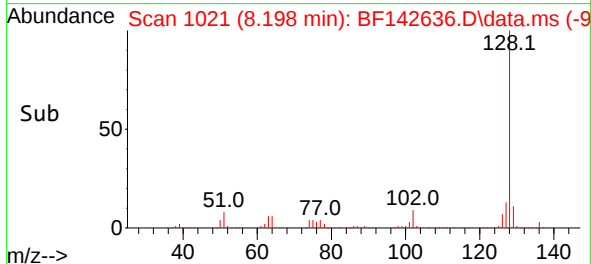


#33
4-Chloroaniline
Concen: 11.516 ng
RT: 8.198 min Scan# 1139
Delta R.T. -0.059 min
Lab File: BF142636.D
Acq: 05 Jun 2025 16:07

Instrument :
BNA_F
ClientSampleId :

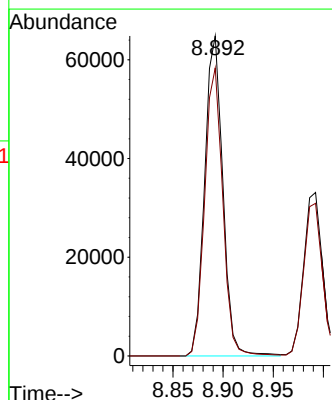
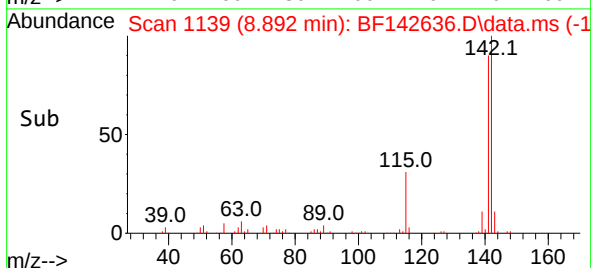
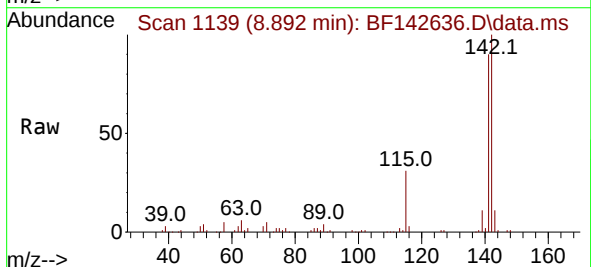


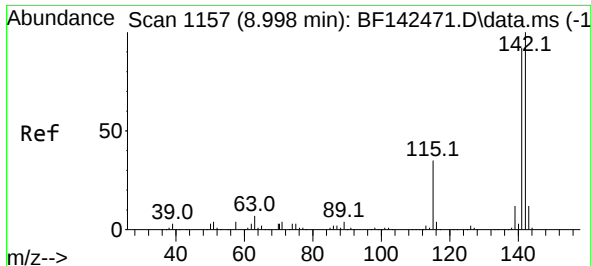
Tgt Ion:127 Resp: 74324
Ion Ratio Lower Upper
127 100
129 85.1 26.1 39.1#
65 0.0 24.9 37.3#
92 0.0 15.6 23.4#



#37
2-Methylnaphthalene
Concen: 8.168 ng
RT: 8.892 min Scan# 1139
Delta R.T. -0.006 min
Lab File: BF142636.D
Acq: 05 Jun 2025 16:07

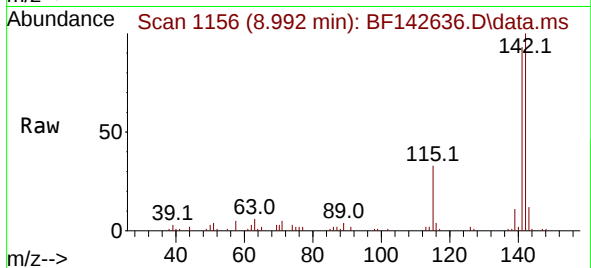
Tgt Ion:142 Resp: 81845
Ion Ratio Lower Upper
142 100
141 90.0 70.7 106.1



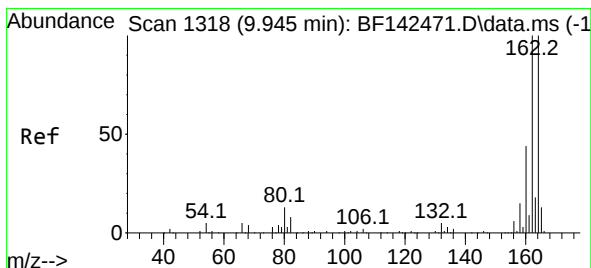
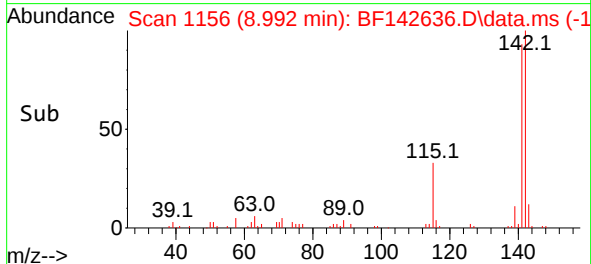
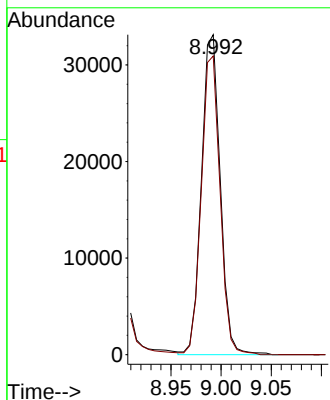


#38
1-Methylnaphthalene
Concen: 4.178 ng
RT: 8.992 min Scan# 1156
Delta R.T. -0.006 min
Lab File: BF142636.D
Acq: 05 Jun 2025 16:07

Instrument :
BNA_F
ClientSampleId :

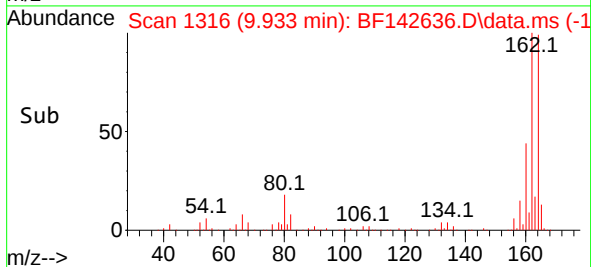
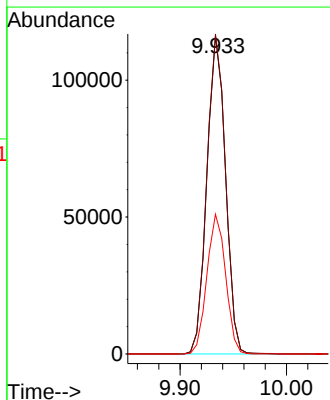
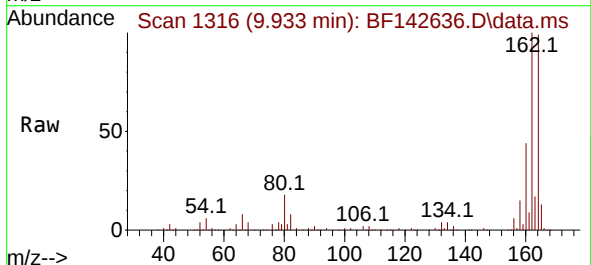


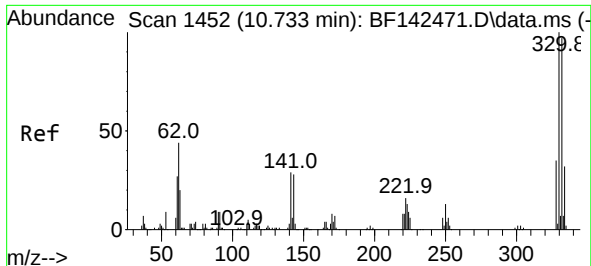
Tgt Ion:142 Resp: 43308
Ion Ratio Lower Upper
142 100
141 93.4 73.4 110.2



#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.933 min Scan# 1316
Delta R.T. -0.012 min
Lab File: BF142636.D
Acq: 05 Jun 2025 16:07

Tgt Ion:164 Resp: 141083
Ion Ratio Lower Upper
164 100
162 100.7 80.2 120.4
160 44.0 35.6 53.4





#42

2,4,6-Tribromophenol

Concen: 0.238 ng

RT: 10.721 min Scan# 1452

Delta R.T. -0.018 min

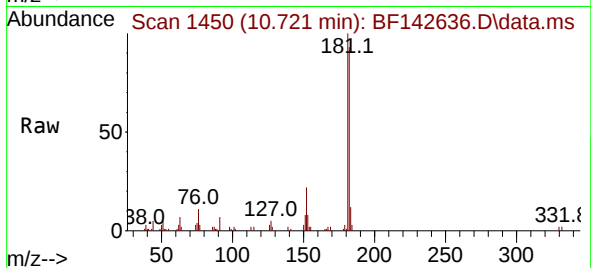
Lab File: BF142636.D

Acq: 05 Jun 2025 16:07

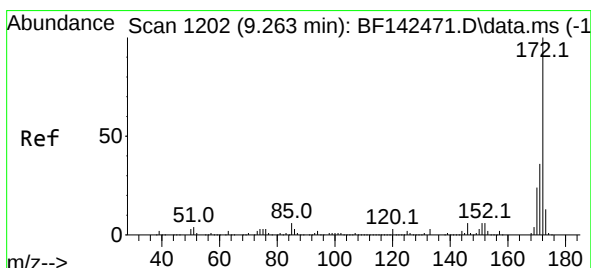
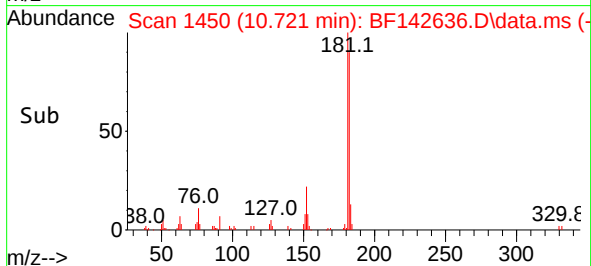
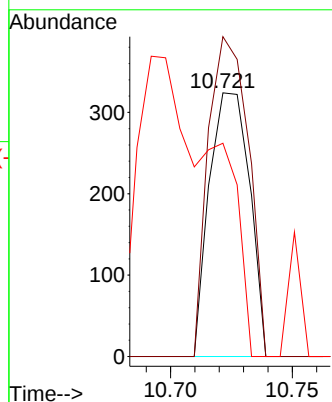
Instrument :

BNA_F

ClientSampleId :



Tgt Ion:	330	Resp:	372
Ion	Ratio	Lower	Upper
330	100		
332	121.0	77.6	116.4#
141	0.0	24.6	36.8#



#45

2-Fluorobiphenyl

Concen: 0.503 ng

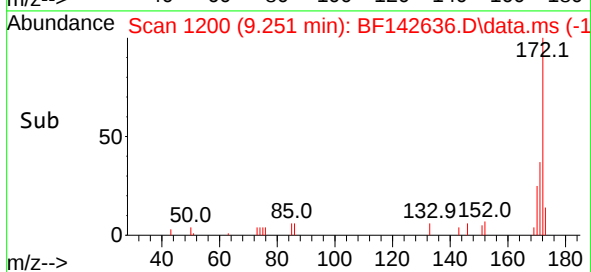
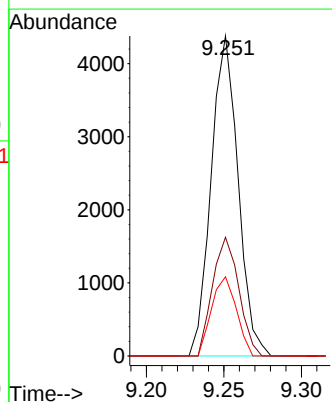
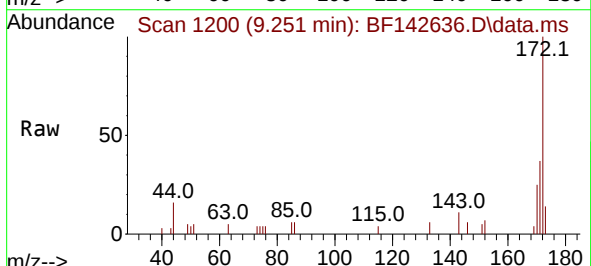
RT: 9.251 min Scan# 1200

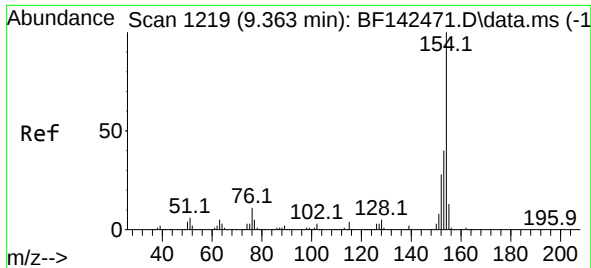
Delta R.T. -0.018 min

Lab File: BF142636.D

Acq: 05 Jun 2025 16:07

Tgt Ion:	172	Resp:	5288
Ion	Ratio	Lower	Upper
172	100		
171	37.1	28.6	42.8
170	24.8	18.9	28.3

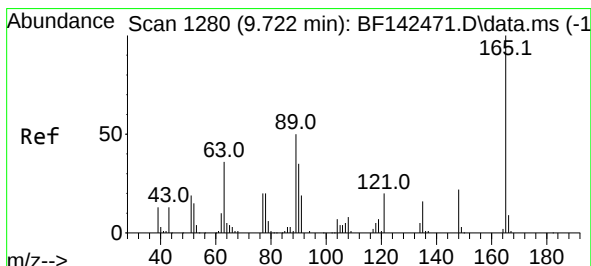
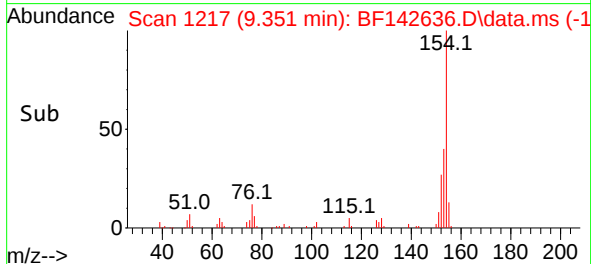
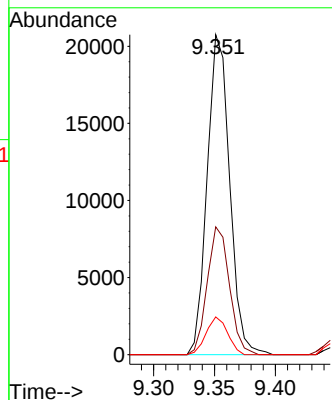
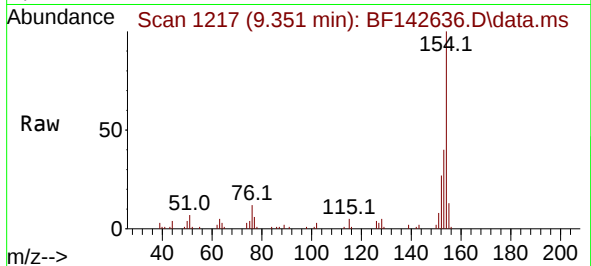




#46
 1,1'-Biphenyl
 Concen: 2.430 ng
 RT: 9.351 min Scan# 1316
 Delta R.T. -0.018 min
 Lab File: BF142636.D
 Acq: 05 Jun 2025 16:07

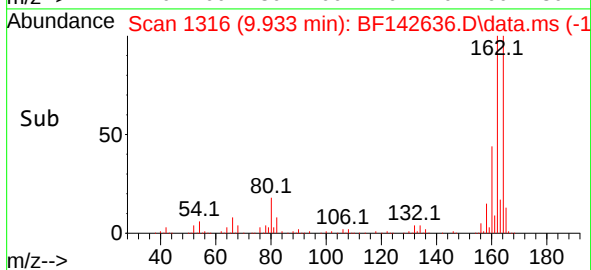
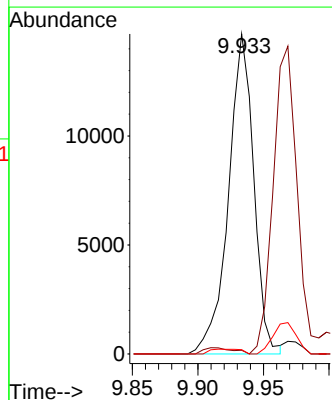
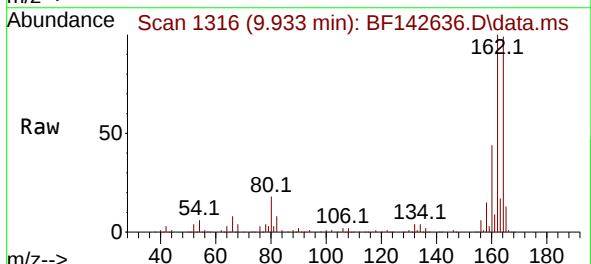
Instrument :
 BNA_F
 ClientSampleId :

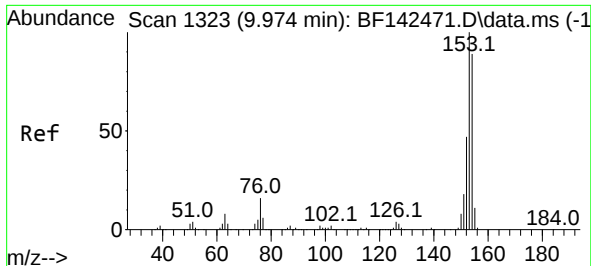
Tgt Ion:154 Resp: 26598
 Ion Ratio Lower Upper
 154 100
 153 39.9 20.4 60.4
 76 11.8 0.0 30.8



#51
 2,6-Dinitrotoluene
 Concen: 9.804 ng
 RT: 9.933 min Scan# 1316
 Delta R.T. 0.206 min
 Lab File: BF142636.D
 Acq: 05 Jun 2025 16:07

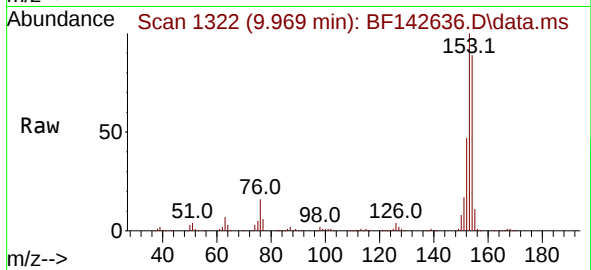
Tgt Ion:165 Resp: 19698
 Ion Ratio Lower Upper
 165 100
 63 1.1 42.9 64.3#
 89 1.4 40.2 60.4#



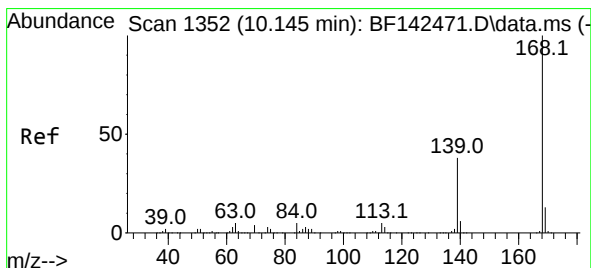
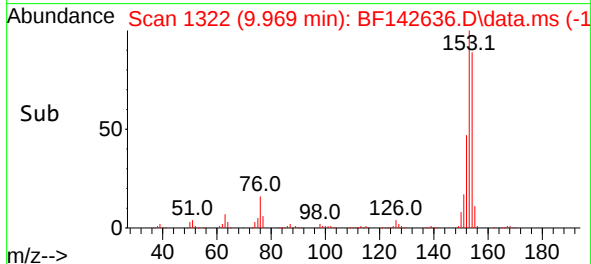
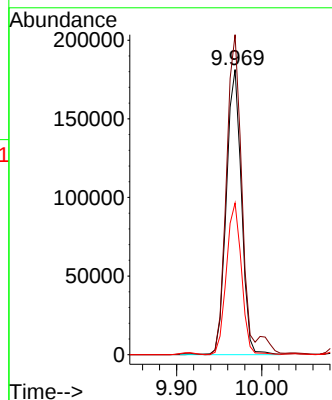


#52
Acenaphthene
Concen: 26.857 ng
RT: 9.969 min Scan# 11
Delta R.T. -0.011 min
Lab File: BF142636.D
Acq: 05 Jun 2025 16:07

Instrument :
BNA_F
ClientSampleId :

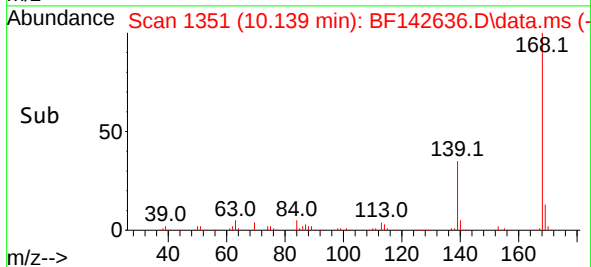
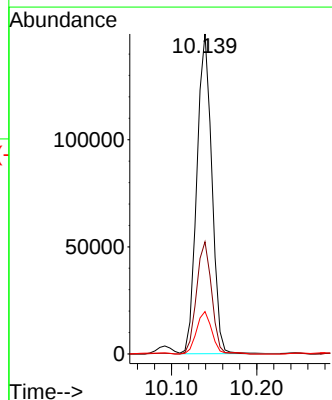
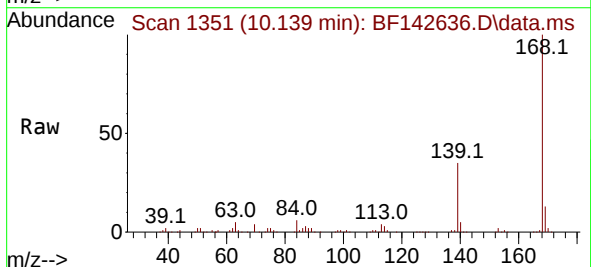


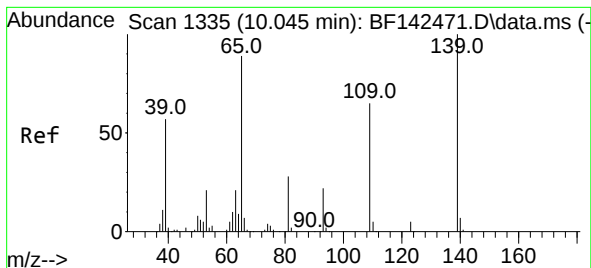
Tgt Ion:154 Resp: 223943
Ion Ratio Lower Upper
154 100
153 112.2 90.0 135.0
152 53.2 42.6 64.0



#55
Dibenzofuran
Concen: 15.165 ng
RT: 10.139 min Scan# 1351
Delta R.T. -0.012 min
Lab File: BF142636.D
Acq: 05 Jun 2025 16:07

Tgt Ion:168 Resp: 181963
Ion Ratio Lower Upper
168 100
139 35.0 30.2 45.2
169 13.2 10.7 16.1

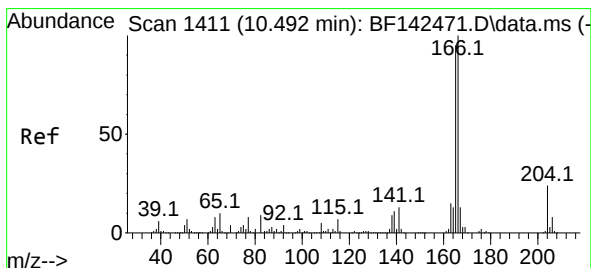
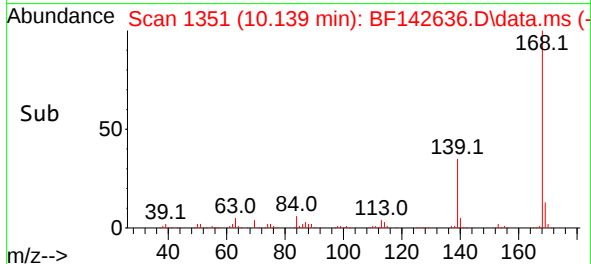
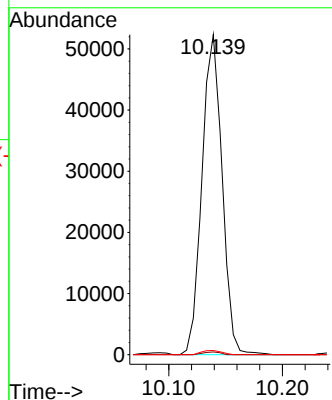
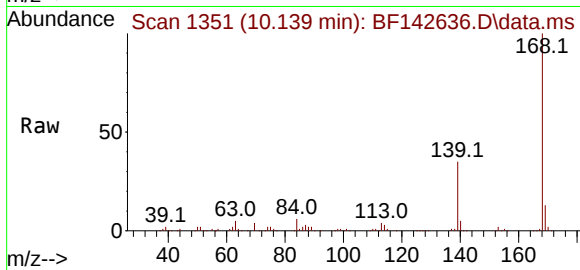




#56
4-Nitrophenol
Concen: 39.722 ng
RT: 10.139 min Scan# 11
Delta R.T. 0.088 min
Lab File: BF142636.D
Acq: 05 Jun 2025 16:07

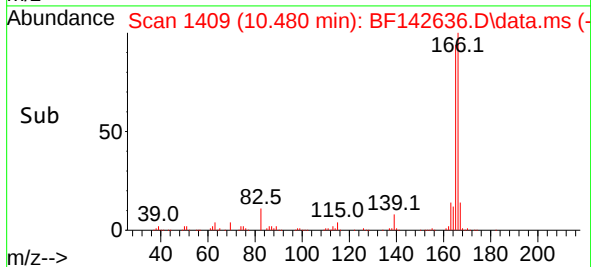
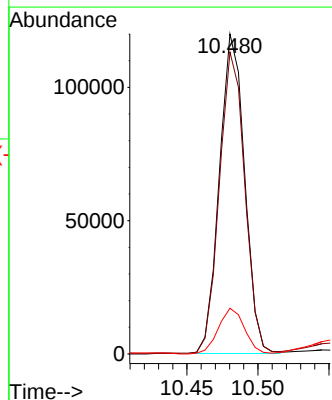
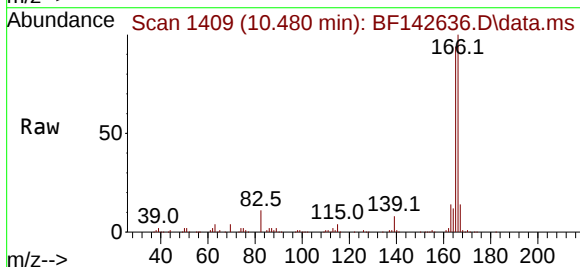
Instrument :
BNA_F
ClientSampleId :

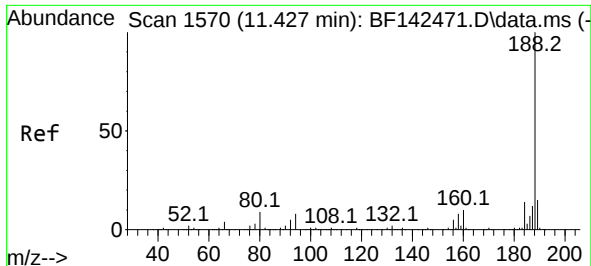
Tgt Ion:139 Resp: 64319
Ion Ratio Lower Upper
139 100
109 0.8 45.1 85.1#
65 1.3 69.7 109.7#



#58
Fluorene
Concen: 15.956 ng
RT: 10.480 min Scan# 1409
Delta R.T. -0.018 min
Lab File: BF142636.D
Acq: 05 Jun 2025 16:07

Tgt Ion:166 Resp: 147909
Ion Ratio Lower Upper
166 100
165 94.4 75.8 113.8
167 14.3 10.6 16.0

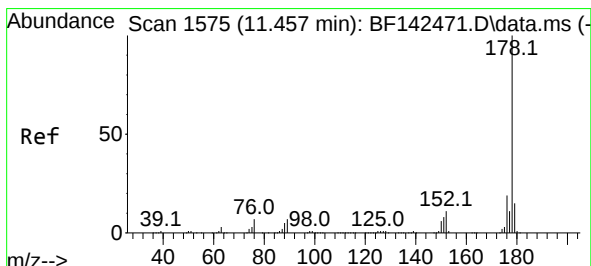
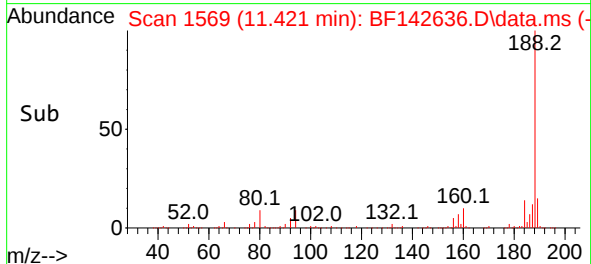
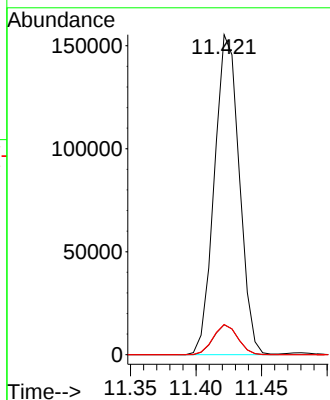
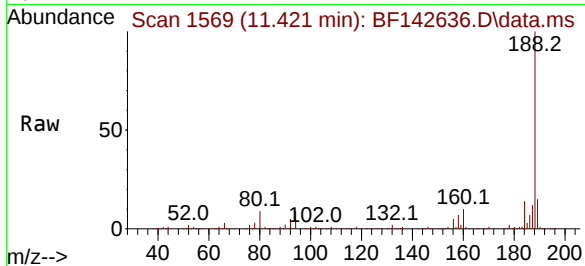




#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.421 min Scan# 1569
Delta R.T. -0.012 min
Lab File: BF142636.D
Acq: 05 Jun 2025 16:07

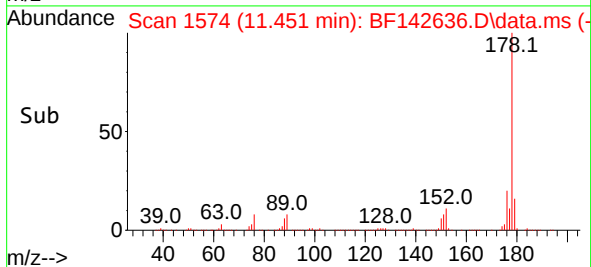
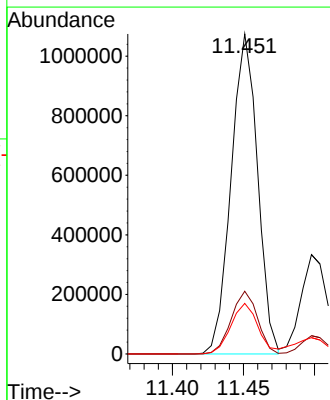
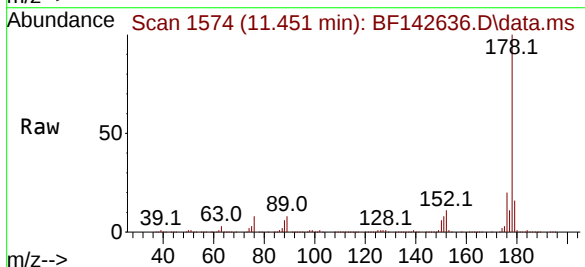
Instrument :
BNA_F
ClientSampleId :

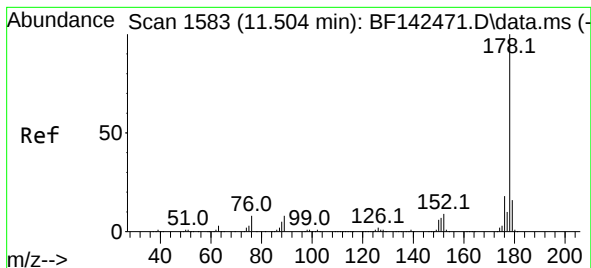
Tgt Ion:188 Resp: 205066
Ion Ratio Lower Upper
188 100
94 9.3 6.6 10.0
80 9.5 7.4 11.0



#71
Phenanthrene
Concen: 127.142 ng
RT: 11.451 min Scan# 1574
Delta R.T. -0.006 min
Lab File: BF142636.D
Acq: 05 Jun 2025 16:07

Tgt Ion:178 Resp: 1393361
Ion Ratio Lower Upper
178 100
176 19.6 15.4 23.0
179 15.8 12.3 18.5





#72

Anthracene

Concen: 38.248 ng

RT: 11.498 min Scan# 11

Delta R.T. -0.012 min

Lab File: BF142636.D

Acq: 05 Jun 2025 16:07

Instrument :

BNA_F

ClientSampleId :

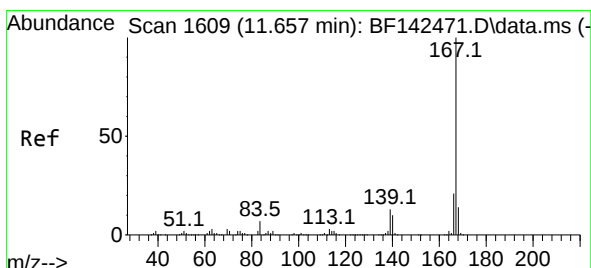
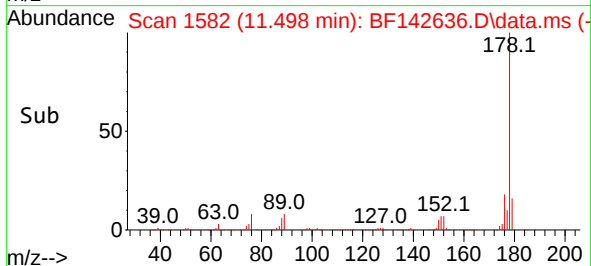
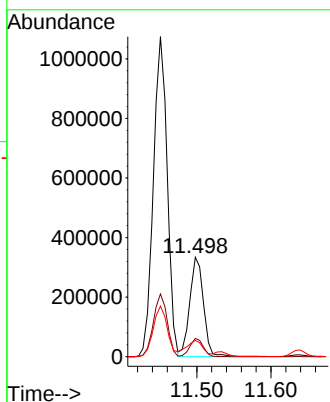
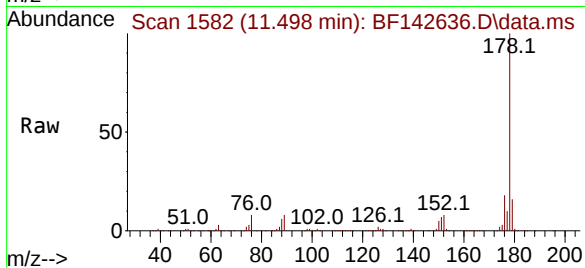
Tgt Ion:178 Resp: 427796

Ion Ratio Lower Upper

178 100

176 18.4 14.6 21.8

179 16.4 12.4 18.6



#73

Carbazole

Concen: 21.084 ng

RT: 11.651 min Scan# 1608

Delta R.T. -0.012 min

Lab File: BF142636.D

Acq: 05 Jun 2025 16:07

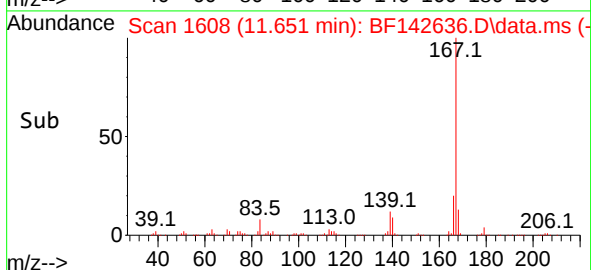
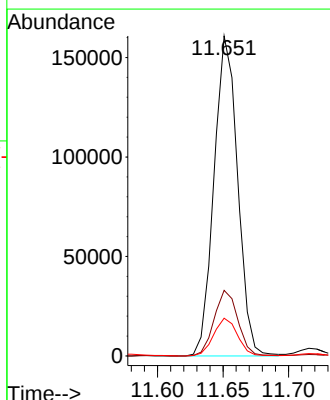
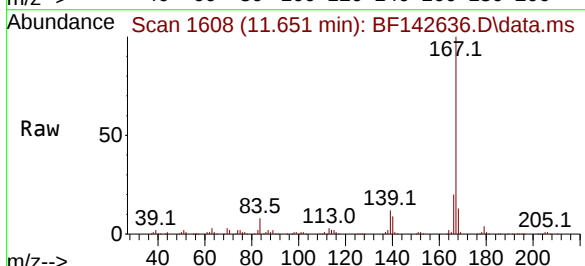
Tgt Ion:167 Resp: 201603

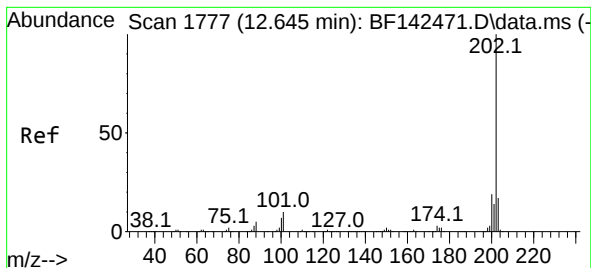
Ion Ratio Lower Upper

167 100

166 20.5 16.9 25.3

139 11.8 10.2 15.4





#75

Fluoranthene

Concen: 149.392 ng

RT: 12.645 min Scan# 1

Delta R.T. -0.000 min

Lab File: BF142636.D

Acq: 05 Jun 2025 16:07

Instrument :

BNA_F

ClientSampleId :

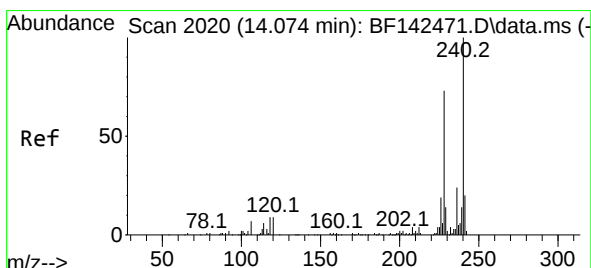
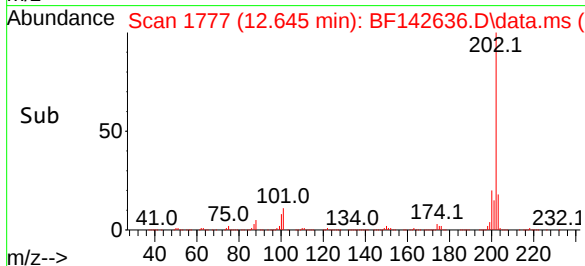
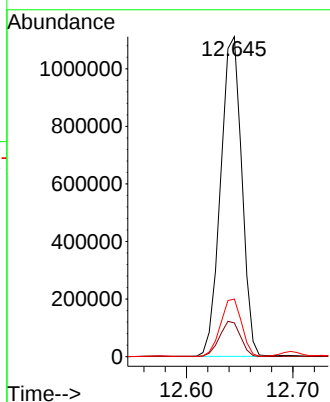
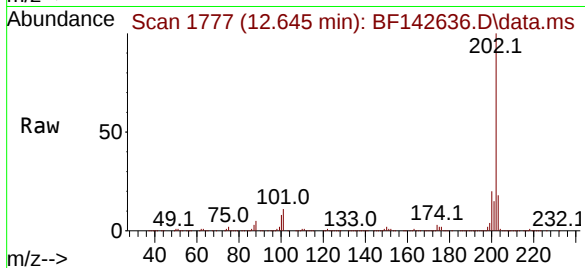
Tgt Ion:202 Resp: 1529804

Ion Ratio Lower Upper

202 100

101 10.6 0.0 29.6

203 18.0 0.0 37.2



#76

Chrysene-d12

Concen: 20.000 ng

RT: 14.068 min Scan# 2019

Delta R.T. -0.006 min

Lab File: BF142636.D

Acq: 05 Jun 2025 16:07

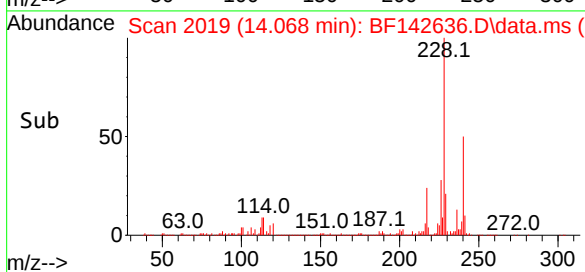
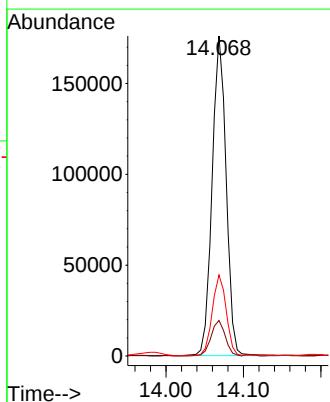
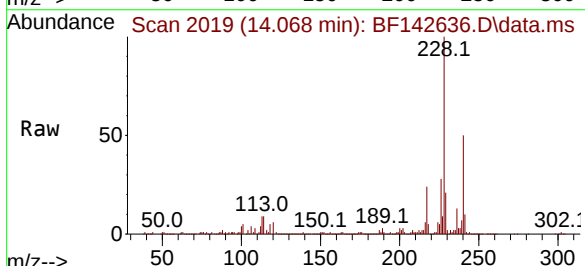
Tgt Ion:240 Resp: 220958

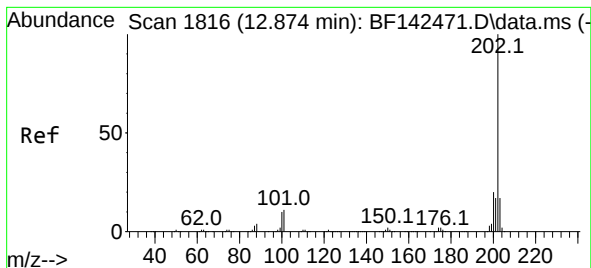
Ion Ratio Lower Upper

240 100

120 11.1 7.5 11.3

236 25.3 19.6 29.4





#78

Pyrene

Concen: 67.107 ng

RT: 12.874 min Scan# 1816

Delta R.T. -0.000 min

Lab File: BF142636.D

Acq: 05 Jun 2025 16:07

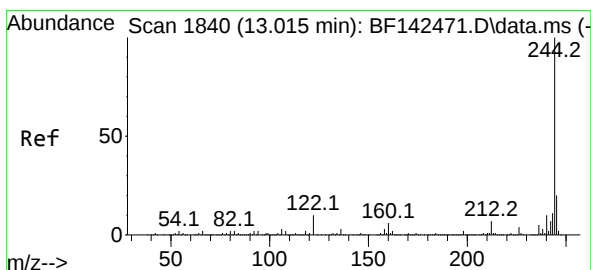
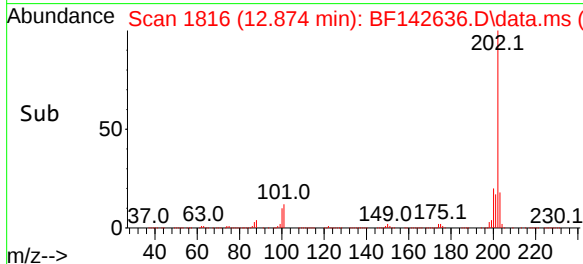
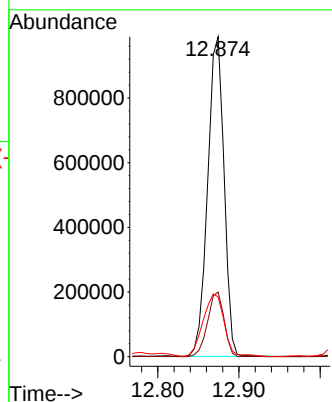
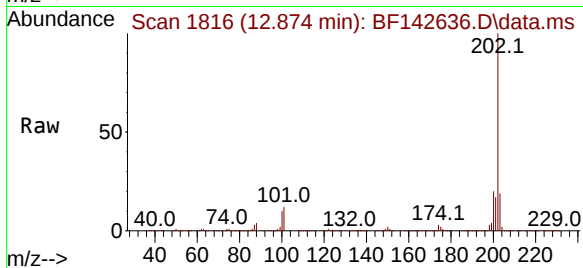
Instrument :

BNA_F

ClientSampleId :

Tgt Ion:202 Resp: 1383214

Ion	Ratio	Lower	Upper
202	100		
200	20.2	16.1	24.1
203	18.7	13.9	20.9



#79

Terphenyl-d14

Concen: 0.388 ng

RT: 13.004 min Scan# 1838

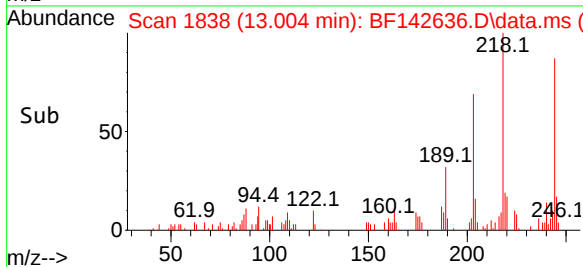
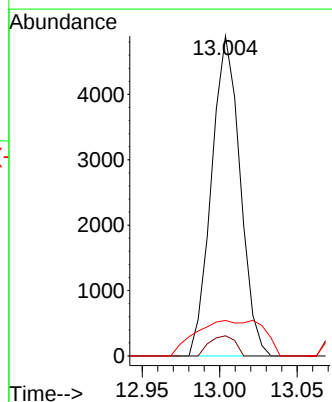
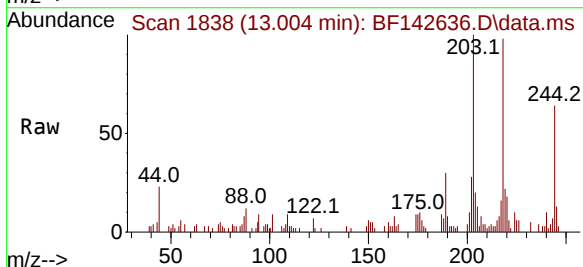
Delta R.T. -0.012 min

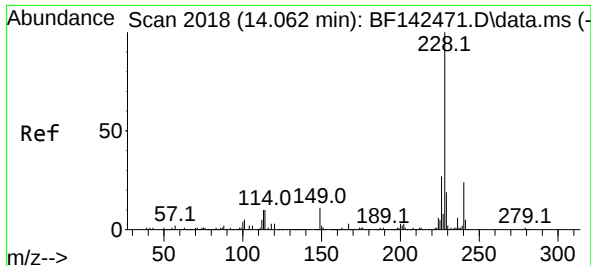
Lab File: BF142636.D

Acq: 05 Jun 2025 16:07

Tgt Ion:244 Resp: 6280

Ion	Ratio	Lower	Upper
244	100		
212	6.3	5.3	7.9
122	11.1	8.2	12.2

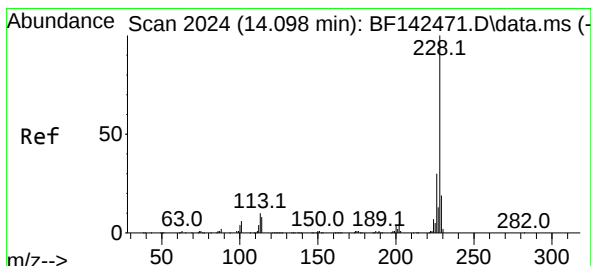
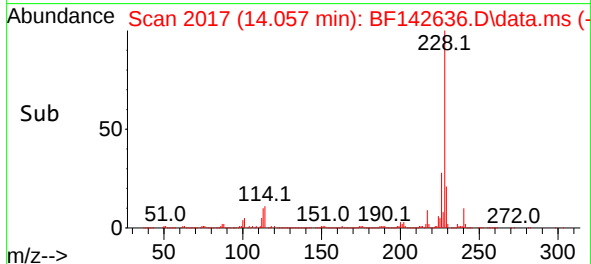
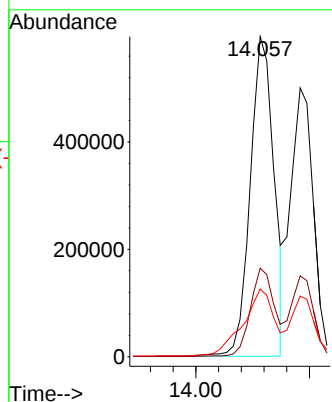
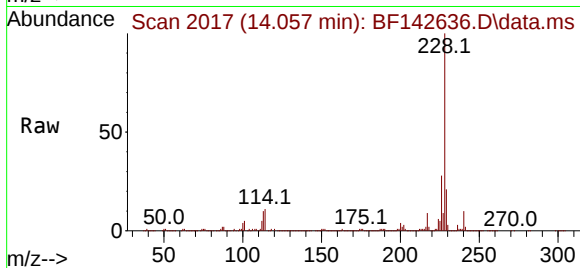




#81
Benzo(a)anthracene
Concen: 58.661 ng
RT: 14.057 min Scan# 20
Delta R.T. -0.006 min
Lab File: BF142636.D
Acq: 05 Jun 2025 16:07

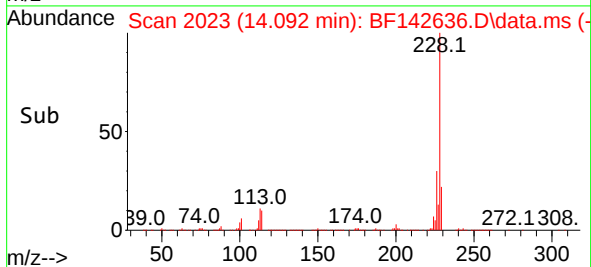
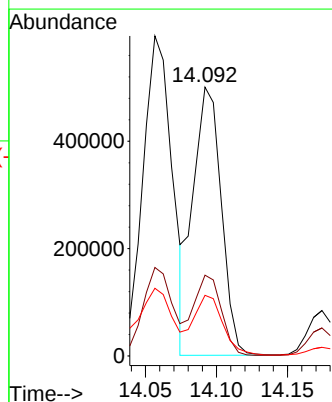
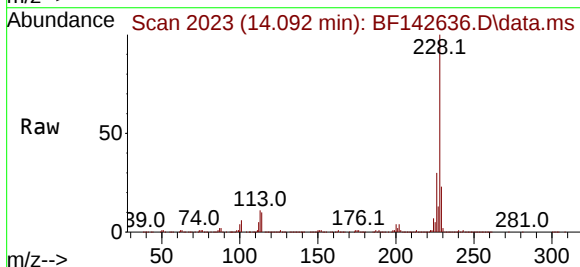
Instrument :
BNA_F
ClientSampleId :

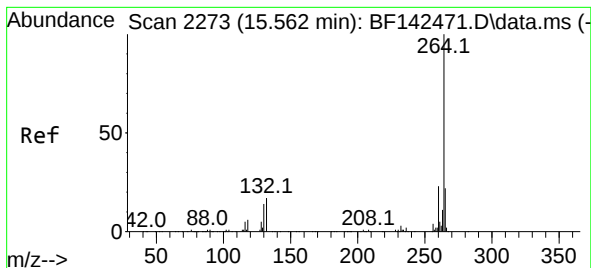
Tgt Ion:228 Resp: 865514
Ion Ratio Lower Upper
228 100
226 27.7 21.2 31.8
229 21.2 15.5 23.3



#83
Chrysene
Concen: 52.164 ng
RT: 14.092 min Scan# 2023
Delta R.T. -0.012 min
Lab File: BF142636.D
Acq: 05 Jun 2025 16:07

Tgt Ion:228 Resp: 691586
Ion Ratio Lower Upper
228 100
226 30.1 23.8 35.6
229 22.6 15.4 23.2





#86

Perylene-d12

Concen: 20.000 ng

RT: 15.562 min Scan# 21

Delta R.T. -0.006 min

Lab File: BF142636.D

Acq: 05 Jun 2025 16:07

Instrument :

BNA_F

ClientSampleId :

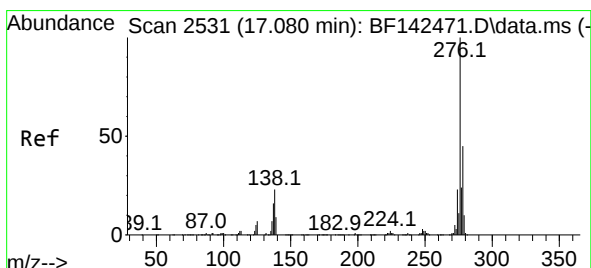
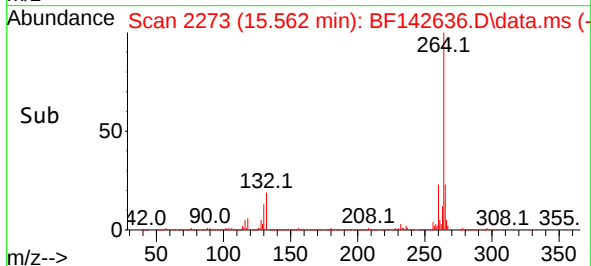
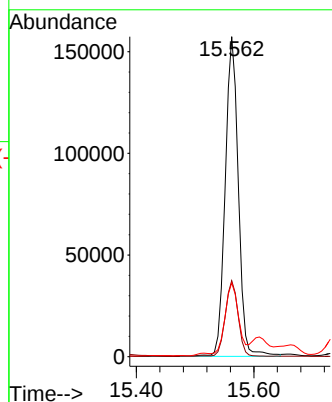
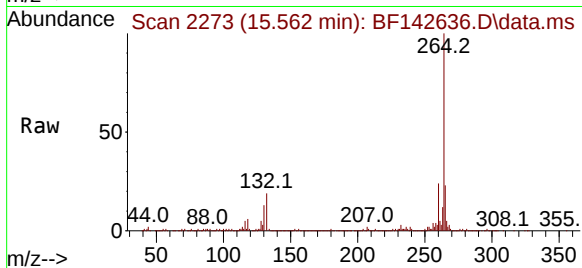
Tgt Ion:264 Resp: 242923

Ion Ratio Lower Upper

264 100

260 23.7 18.6 28.0

265 23.1 17.7 26.5



#87

Indeno(1,2,3-cd)pyrene

Concen: 15.750 ng

RT: 17.068 min Scan# 2529

Delta R.T. -0.024 min

Lab File: BF142636.D

Acq: 05 Jun 2025 16:07

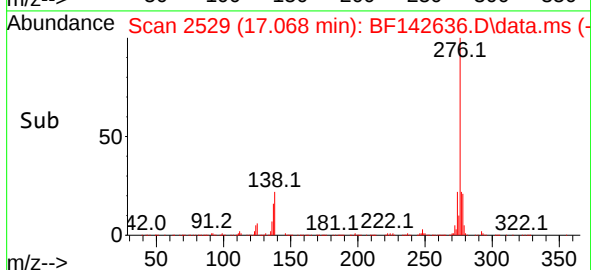
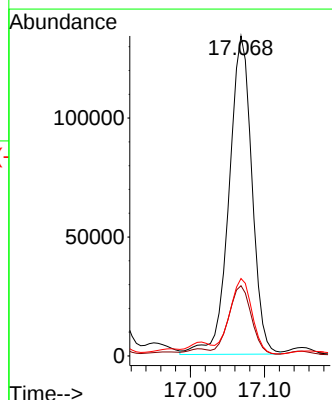
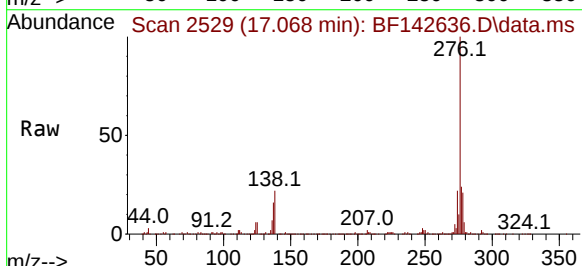
Tgt Ion:276 Resp: 287244

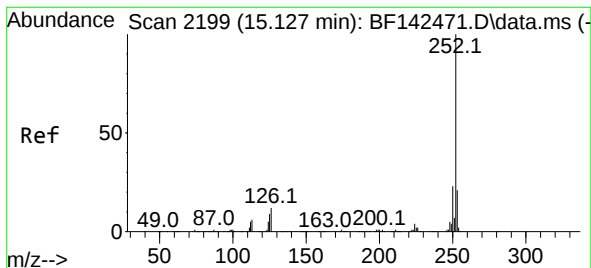
Ion Ratio Lower Upper

276 100

138 21.7 19.9 29.9

277 22.9 20.2 30.2





#88

Benzo(b)fluoranthene

Concen: 85.134 ng

RT: 15.127 min Scan# 2199

Delta R.T. -0.000 min

Lab File: BF142636.D

Acq: 05 Jun 2025 16:07

Instrument :

BNA_F

ClientSampleId :

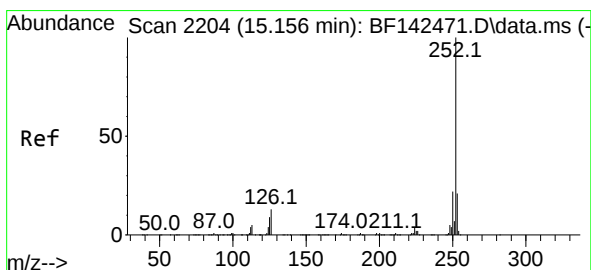
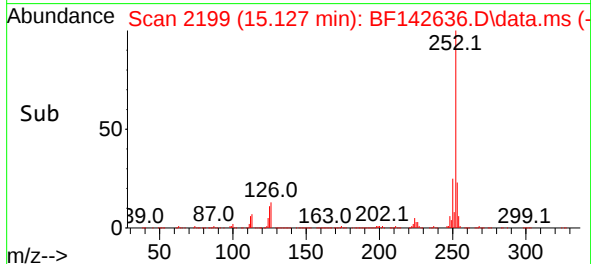
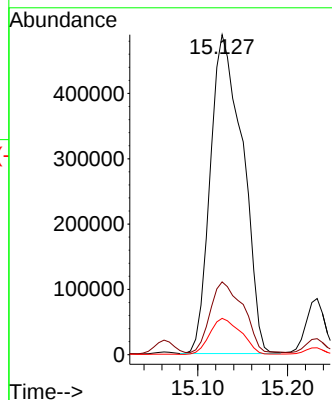
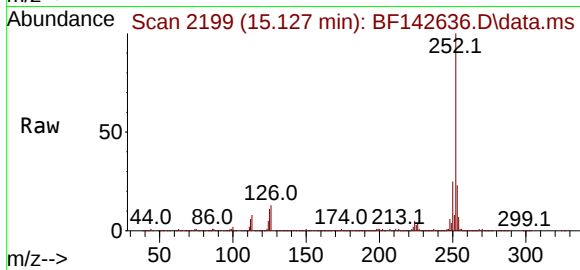
Tgt Ion:252 Resp: 1224001

Ion Ratio Lower Upper

252 100

253 22.7 17.0 25.4

125 11.3 7.4 11.0#



#89

Benzo(k)fluoranthene

Concen: 90.896 ng

RT: 15.127 min Scan# 2199

Delta R.T. -0.035 min

Lab File: BF142636.D

Acq: 05 Jun 2025 16:07

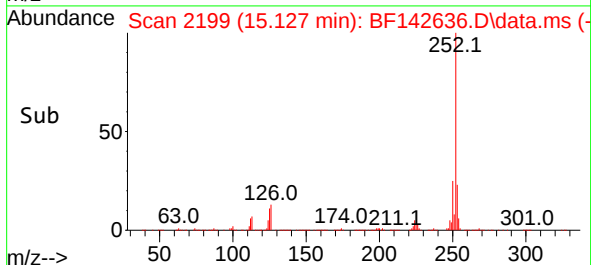
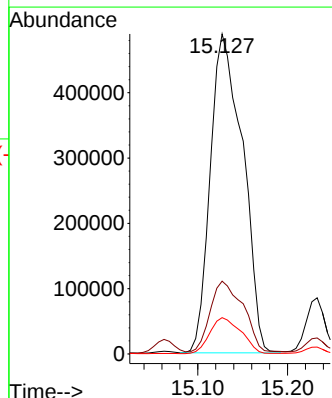
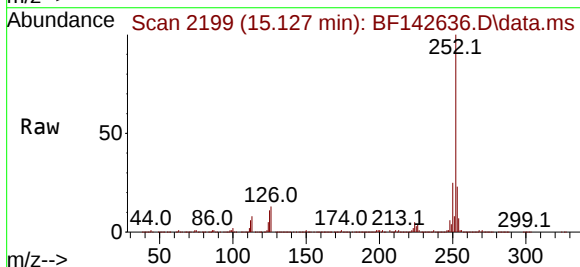
Tgt Ion:252 Resp: 1224001

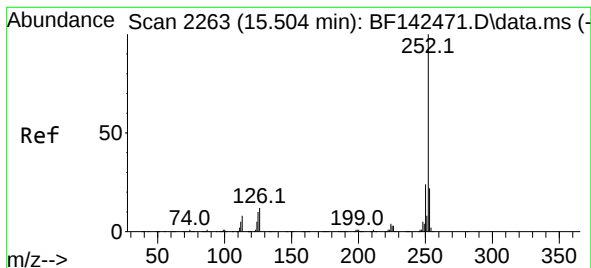
Ion Ratio Lower Upper

252 100

253 22.7 17.0 25.4

125 11.3 7.3 10.9#





#90

Benzo(a)pyrene

Concen: 47.699 ng

RT: 15.504 min Scan# 21

Delta R.T. -0.006 min

Lab File: BF142636.D

Acq: 05 Jun 2025 16:07

Instrument :

BNA_F

ClientSampleId :

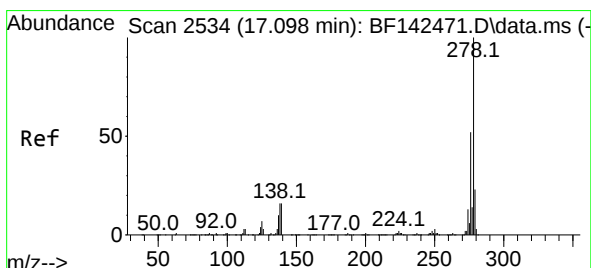
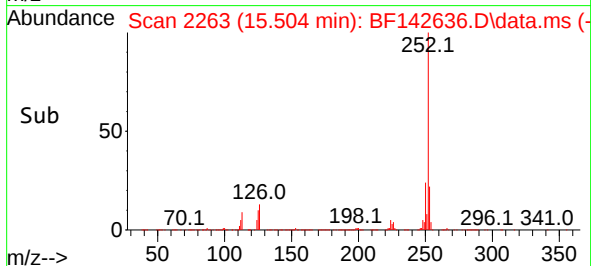
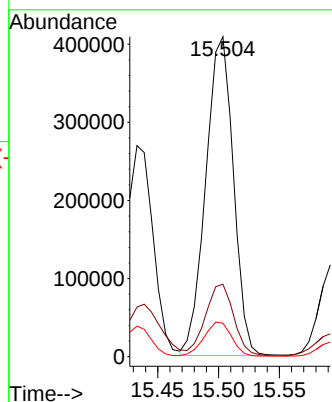
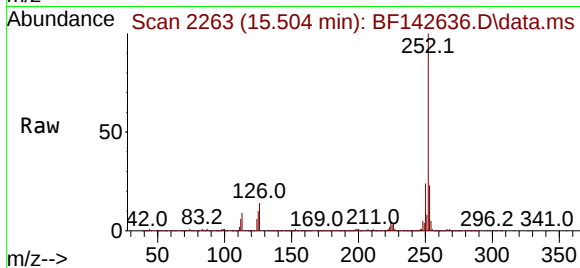
Tgt Ion:252 Resp: 646424

Ion Ratio Lower Upper

252 100

253 22.7 17.4 26.0

125 10.5 7.9 11.9



#91

Dibenzo(a,h)anthracene

Concen: 4.076 ng

RT: 17.250 min Scan# 2560

Delta R.T. 0.135 min

Lab File: BF142636.D

Acq: 05 Jun 2025 16:07

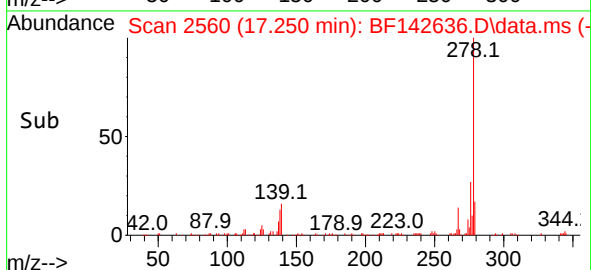
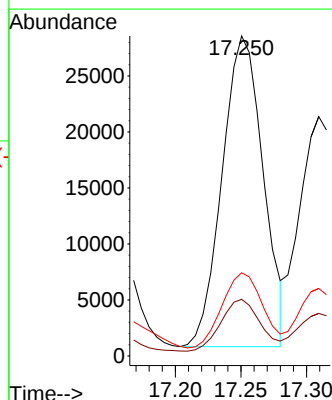
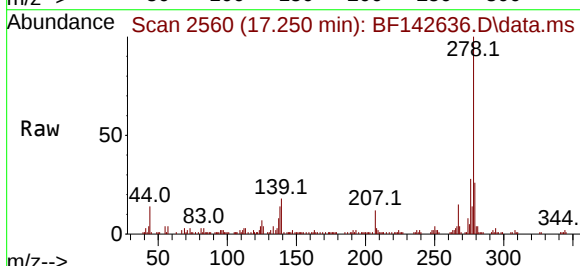
Tgt Ion:278 Resp: 60284

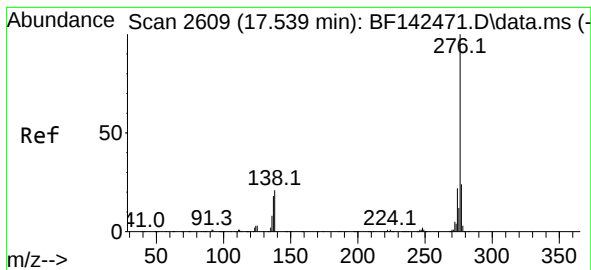
Ion Ratio Lower Upper

278 100

139 17.7 12.8 19.2

279 26.0 18.6 28.0





#92

Benzo(g,h,i)perylene

Concen: 16.488 ng

RT: 17.527 min Scan# 20

Delta R.T. -0.029 min

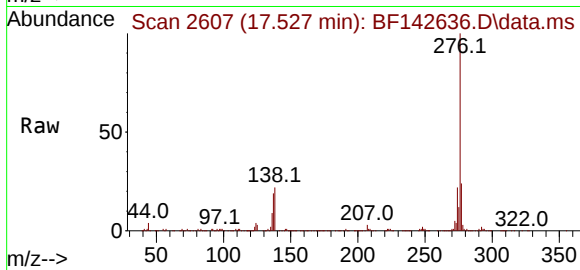
Lab File: BF142636.D

Acq: 05 Jun 2025 16:07

Instrument :

BNA_F

ClientSampleId :



Tgt Ion:276 Resp: 243926

Ion Ratio Lower Upper

276 100

277 23.8 19.2 28.8

138 21.8 16.8 25.2

