

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF070725\
 Data File : BF143020.D
 Acq On : 07 Jul 2025 20:51
 Operator : RC/JU
 Sample : Q2473-01 2X
 Misc :
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 PIT#1

Quant Time: Jul 08 00:59:25 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)

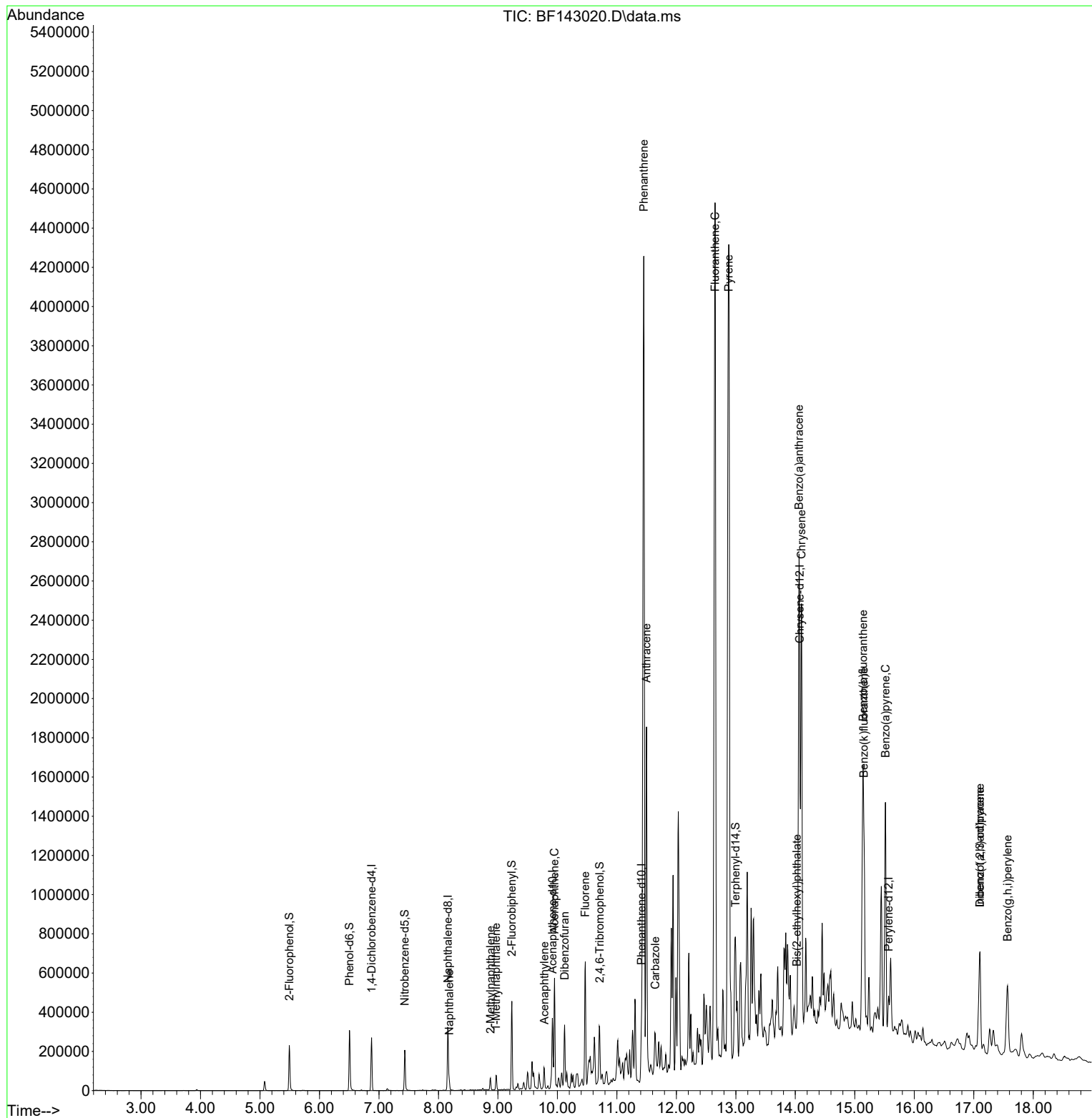
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.875	152	58496	20.000	ng	0.00
21) Naphthalene-d8	8.157	136	207180	20.000	ng	-0.01
39) Acenaphthene-d10	9.916	164	104486	20.000	ng	0.00
64) Phenanthrene-d10	11.416	188	183059	20.000	ng	0.00
76) Chrysene-d12	14.074	240	128705	20.000	ng	0.02
86) Perylene-d12	15.568	264	102828	20.000	ng	# 0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.492	112	93492	26.610	ng	0.00
7) Phenol-d6	6.504	99	144358	34.826	ng	0.00
23) Nitrobenzene-d5	7.433	82	87043	23.045	ng	-0.01
42) 2,4,6-Tribromophenol	10.710	330	13691	12.733	ng	0.00
45) 2-Fluorobiphenyl	9.233	172	196877	24.753	ng	-0.01
79) Terphenyl-d14	12.998	244	219359	23.549	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	8.180	128	28711	2.831	ng	99
37) 2-Methylnaphthalene	8.875	142	24938	3.967	ng	100
38) 1-Methylnaphthalene	8.969	142	28845	4.432	ng	100
49) Acenaphthylene	9.780	152	51215	5.023	ng	97
52) Acenaphthene	9.951	154	168399	27.069	ng	99
55) Dibenzofuran	10.122	168	148823	16.683	ng	98
58) Fluorene	10.469	166	243461	34.944	ng	99
71) Phenanthrene	11.451	178	2904839	292.936	ng	98
72) Anthracene	11.498	178	1019032	100.199	ng	99
73) Carbazole	11.645	167	102508	11.680	ng	98
75) Fluoranthene	12.651	202	3644986	387.308	ng	97
78) Pyrene	12.880	202	3246928m	269.141	ng	
81) Benzo(a)anthracene	14.062	228	1528136	176.001	ng	96
83) Chrysene	14.104	228	1220269m	157.503	ng	
84) Bis(2-ethylhexyl)phtha...	14.027	149	19810	3.935	ng	# 92
87) Indeno(1,2,3-cd)pyrene	17.103	276	403195	51.478	ng	# 93
88) Benzo(b)fluoranthene	15.139	252	1079237m	181.382	ng	
89) Benzo(k)fluoranthene	15.151	252	374270m	67.233	ng	
90) Benzo(a)pyrene	15.515	252	802628	139.631	ng	98
91) Dibenzo(a,h)anthracene	17.103	278	104257	16.383	ng	94
92) Benzo(g,h,i)perylene	17.568	276	352094	55.484	ng	97

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

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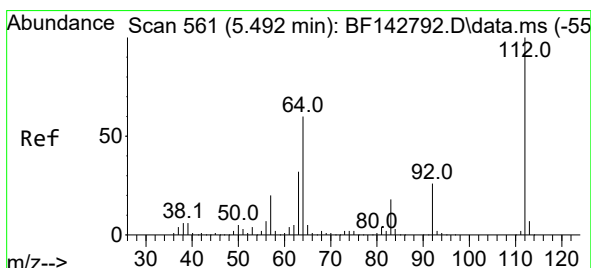
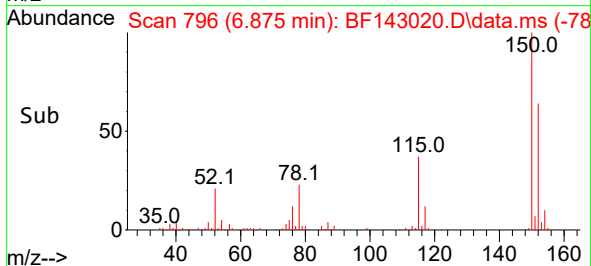
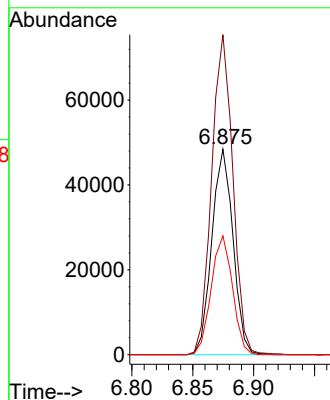
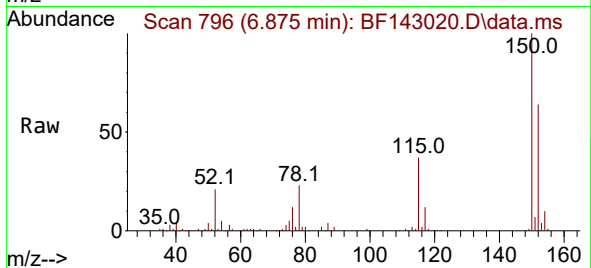




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.875 min Scan# 797
Delta R.T. -0.006 min
Lab File: BF143020.D
Acq: 07 Jul 2025 20:51

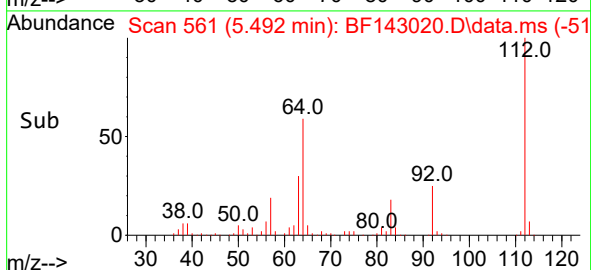
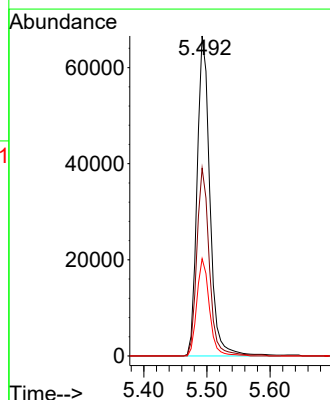
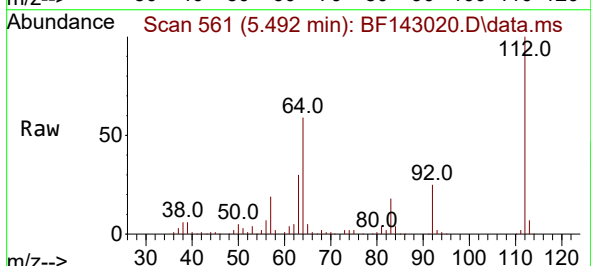
Instrument :
BNA_F
ClientSampleId :
PIT#1

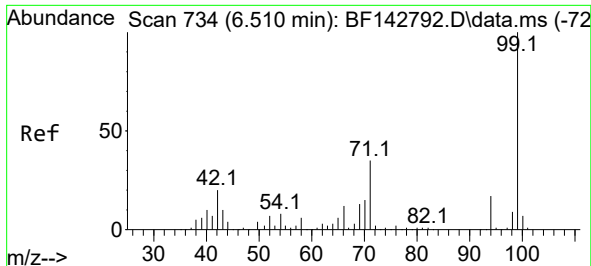
Tgt Ion:152 Resp: 58496
Ion Ratio Lower Upper
152 100
150 155.7 127.2 190.8
115 57.9 46.6 69.8



#5
2-Fluorophenol
Concen: 26.610 ng
RT: 5.492 min Scan# 561
Delta R.T. 0.000 min
Lab File: BF143020.D
Acq: 07 Jul 2025 20:51

Tgt Ion:112 Resp: 93492
Ion Ratio Lower Upper
112 100
64 58.7 48.2 72.2
63 30.4 25.7 38.5

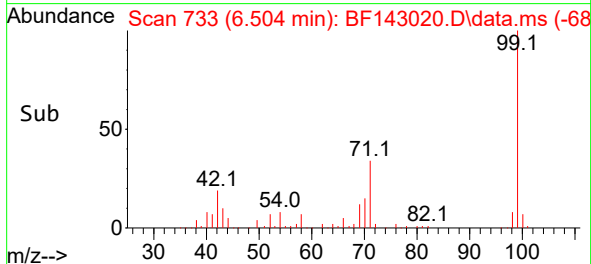
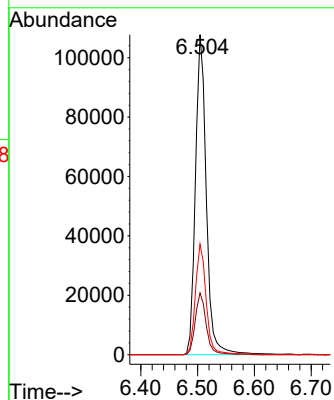
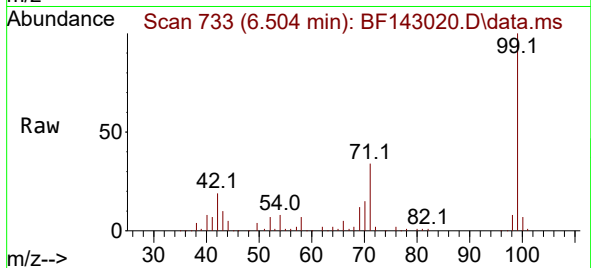




#7
Phenol-d6
Concen: 34.826 ng
RT: 6.504 min Scan# 71
Delta R.T. -0.006 min
Lab File: BF143020.D
Acq: 07 Jul 2025 20:51

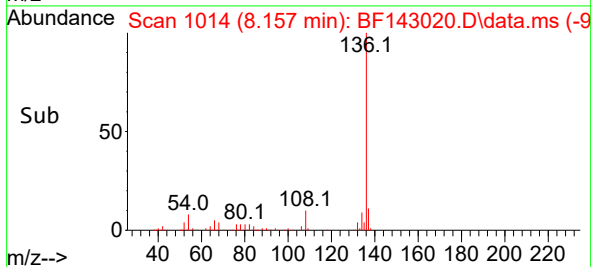
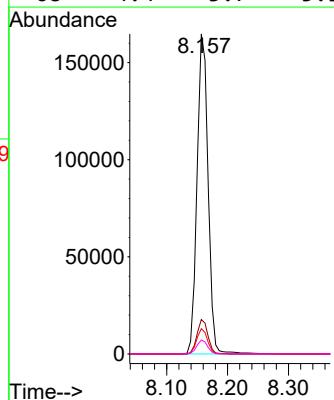
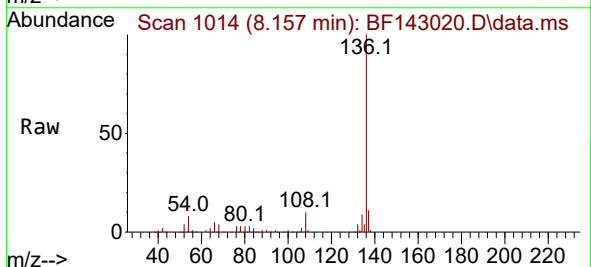
Instrument :
BNA_F
ClientSampleId :
PIT#1

Tgt Ion: 99 Resp: 144358
Ion Ratio Lower Upper
99 100
42 19.3 15.9 23.9
71 34.5 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: BF143020.D
Acq: 07 Jul 2025 20:51

Tgt Ion: 136 Resp: 207180
Ion Ratio Lower Upper
136 100
137 10.8 8.4 12.6
54 7.9 6.3 9.5
68 4.4 3.7 5.5





#23

Nitrobenzene-d5

Concen: 23.045 ng

RT: 7.433 min Scan# 89

Delta R.T. -0.012 min

Lab File: BF143020.D

Acq: 07 Jul 2025 20:51

Instrument :

BNA_F

ClientSampleId :

PIT#1

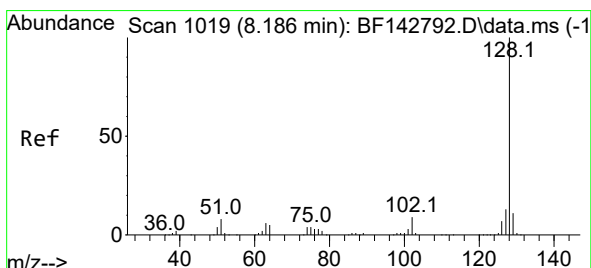
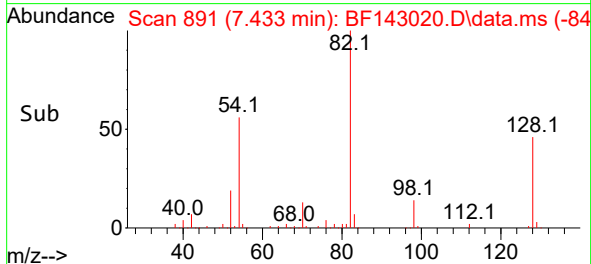
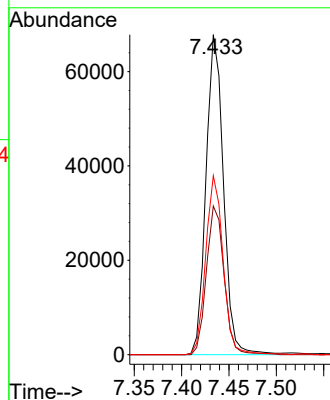
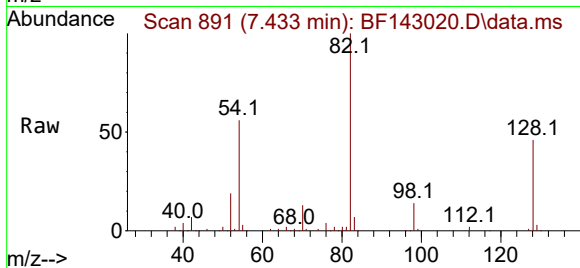
Tgt Ion: 82 Resp: 87043

Ion Ratio Lower Upper

82 100

128 46.4 37.7 56.5

54 55.9 45.7 68.5



#31

Naphthalene

Concen: 2.831 ng

RT: 8.180 min Scan# 1018

Delta R.T. -0.006 min

Lab File: BF143020.D

Acq: 07 Jul 2025 20:51

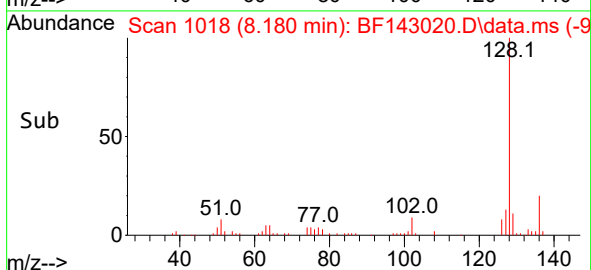
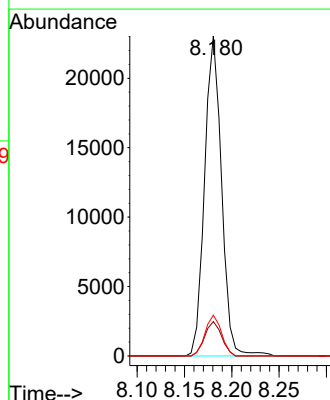
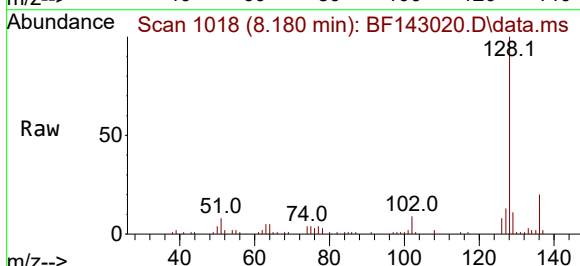
Tgt Ion:128 Resp: 28711

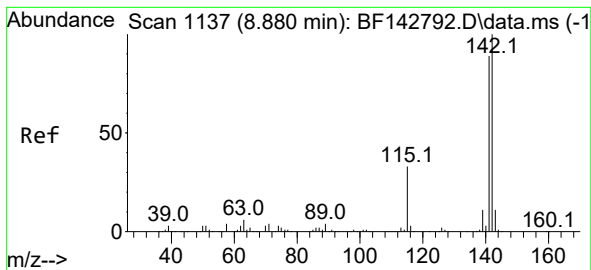
Ion Ratio Lower Upper

128 100

129 10.8 8.9 13.3

127 12.8 10.4 15.6





#37

2-Methylnaphthalene

Concen: 3.967 ng

RT: 8.875 min Scan# 1136

Delta R.T. -0.006 min

Lab File: BF143020.D

Acq: 07 Jul 2025 20:51

Instrument :

BNA_F

ClientSampleId :

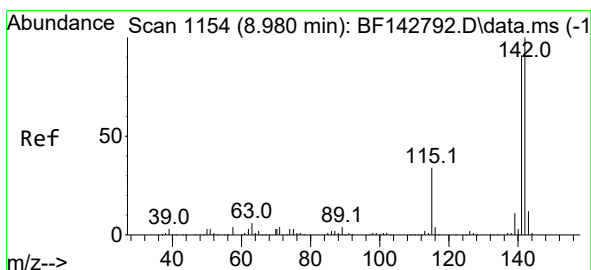
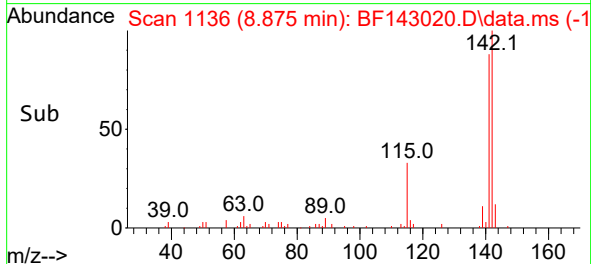
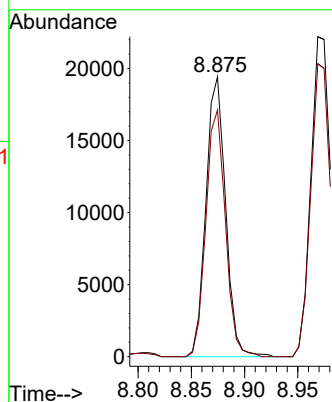
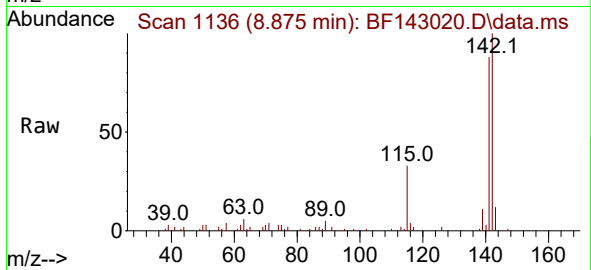
PIT#1

Tgt Ion:142 Resp: 24938

Ion Ratio Lower Upper

142 100

141 88.2 70.9 106.3



#38

1-Methylnaphthalene

Concen: 4.432 ng

RT: 8.969 min Scan# 1152

Delta R.T. -0.012 min

Lab File: BF143020.D

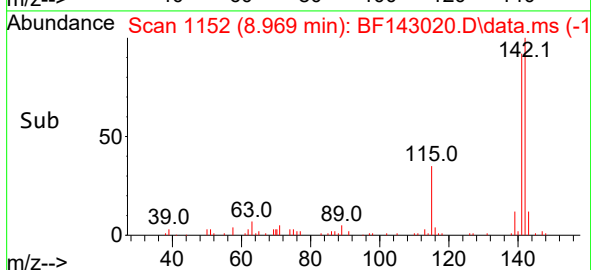
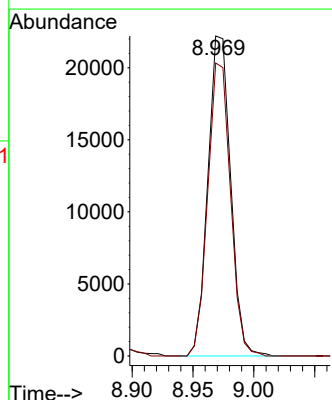
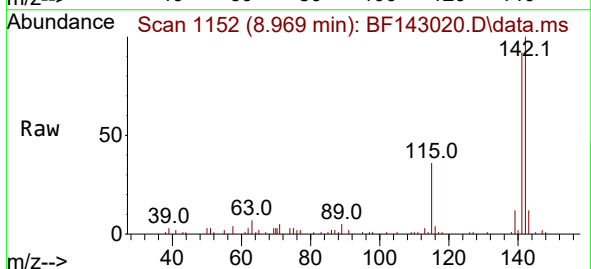
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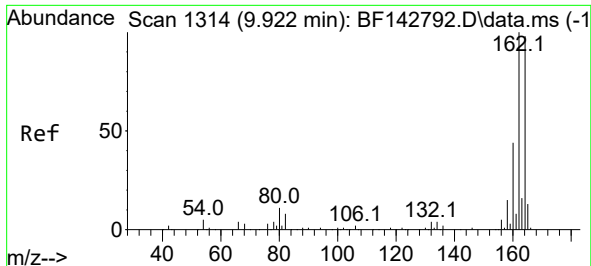
Tgt Ion:142 Resp: 28845

Ion Ratio Lower Upper

142 100

141 91.6 73.0 109.4

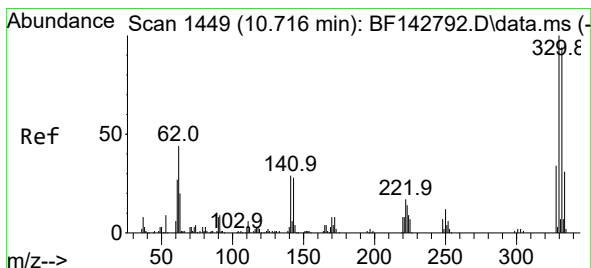
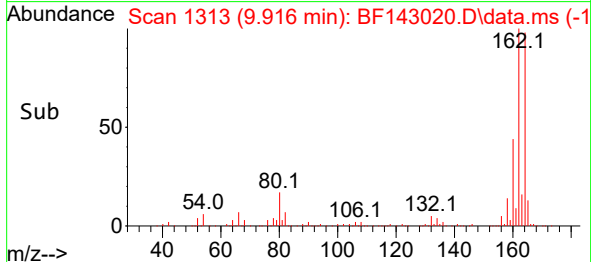
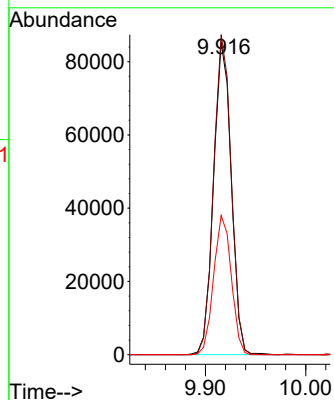
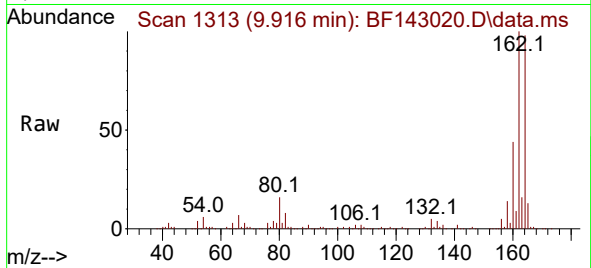




#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.916 min Scan# 1314
Delta R.T. -0.006 min
Lab File: BF143020.D
Acq: 07 Jul 2025 20:51

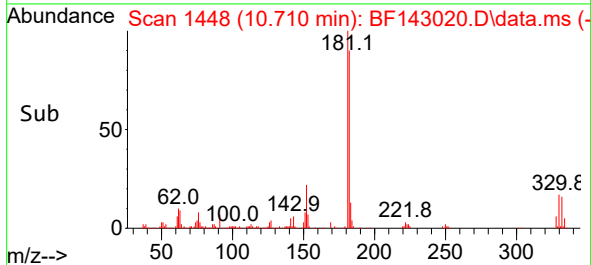
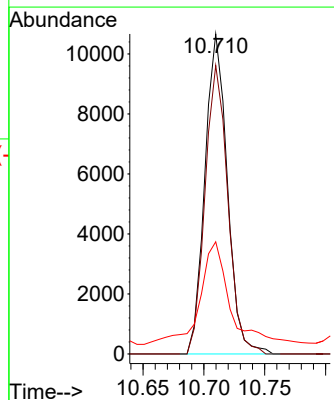
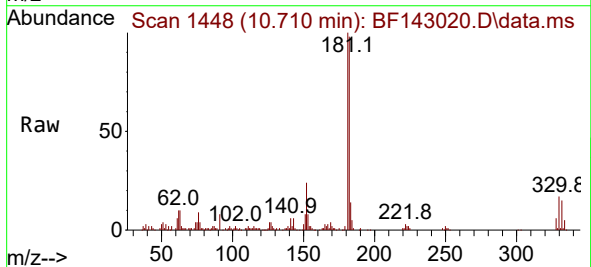
Instrument :
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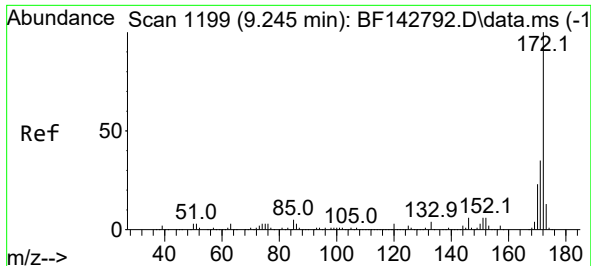
Tgt Ion:164 Resp: 104486
Ion Ratio Lower Upper
164 100
162 102.5 81.8 122.8
160 44.6 36.0 54.0



#42
2,4,6-Tribromophenol
Concen: 12.733 ng
RT: 10.710 min Scan# 1448
Delta R.T. -0.006 min
Lab File: BF143020.D
Acq: 07 Jul 2025 20:51

Tgt Ion:330 Resp: 13691
Ion Ratio Lower Upper
330 100
332 91.4 75.0 112.6
141 43.0 25.3 37.9#





#45

2-Fluorobiphenyl

Concen: 24.753 ng

RT: 9.233 min Scan# 1197

Delta R.T. -0.012 min

Lab File: BF143020.D

Acq: 07 Jul 2025 20:51

Instrument :

BNA_F

ClientSampleId :

PIT#1

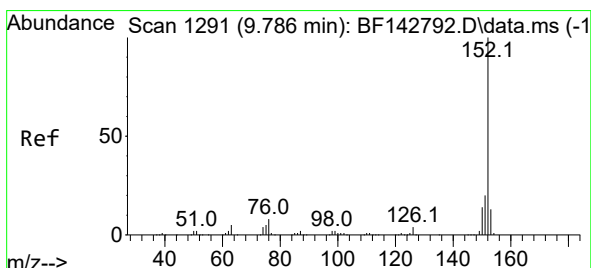
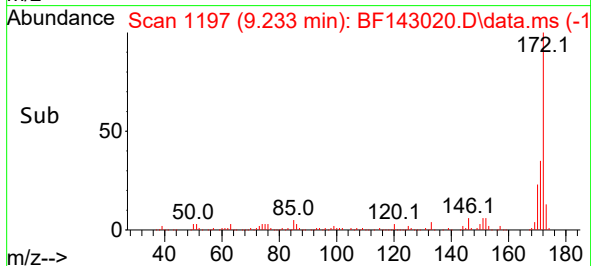
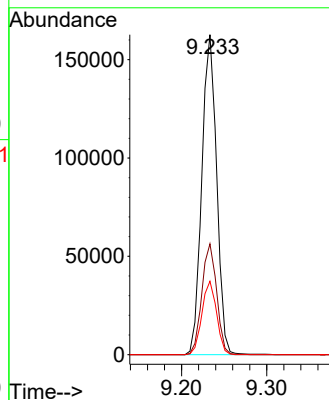
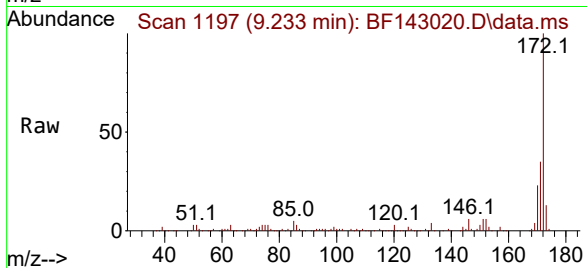
Tgt Ion:172 Resp: 196877

Ion Ratio Lower Upper

172 100

171 34.7 28.2 42.4

170 22.9 18.5 27.7



#49

Acenaphthylene

Concen: 5.023 ng

RT: 9.780 min Scan# 1290

Delta R.T. -0.006 min

Lab File: BF143020.D

Acq: 07 Jul 2025 20:51

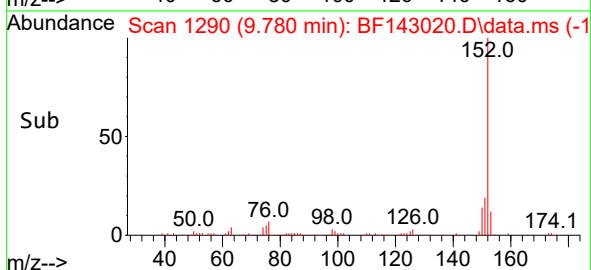
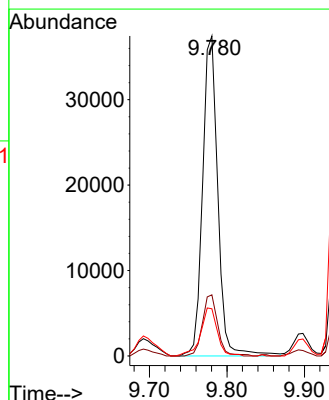
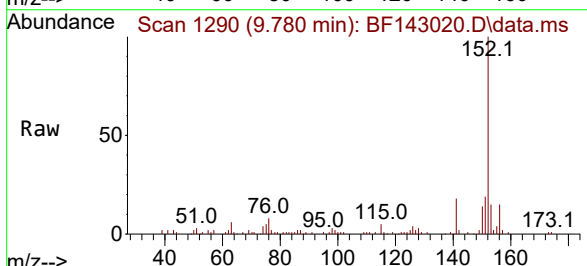
Tgt Ion:152 Resp: 51215

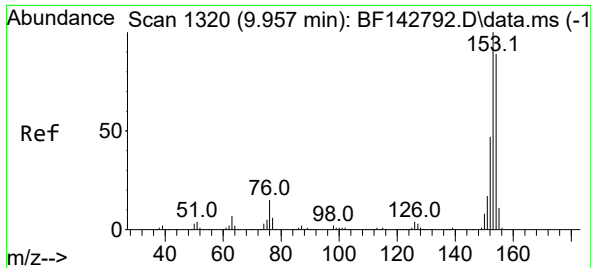
Ion Ratio Lower Upper

152 100

151 19.1 16.1 24.1

153 14.8 10.4 15.6

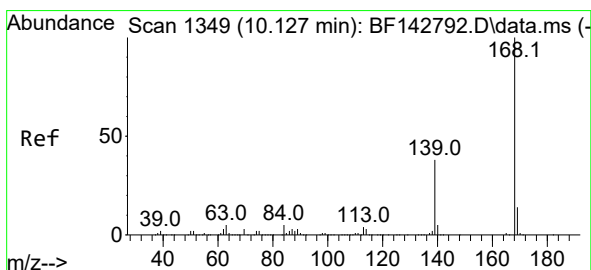
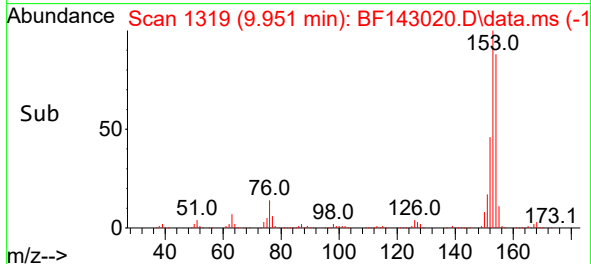
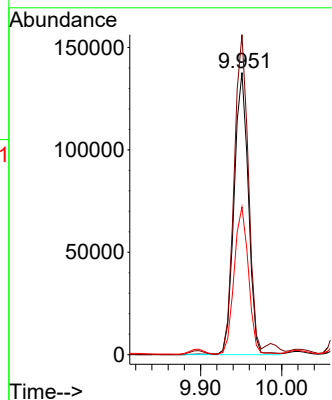
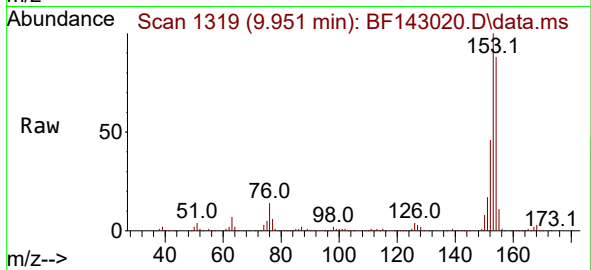




#52
Acenaphthene
Concen: 27.069 ng
RT: 9.951 min Scan# 1319
Delta R.T. -0.006 min
Lab File: BF143020.D
Acq: 07 Jul 2025 20:51

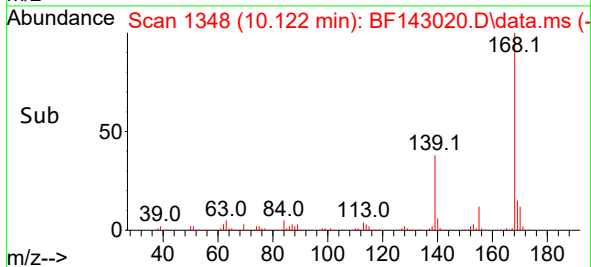
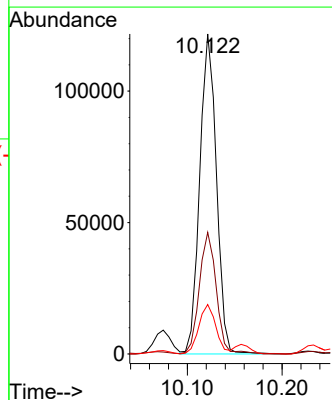
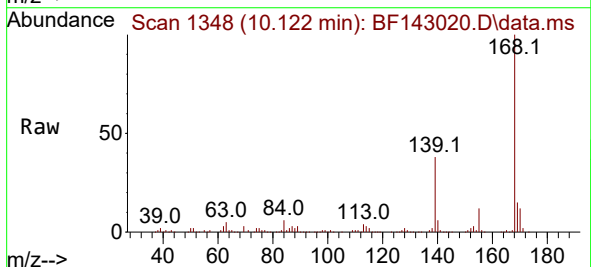
Instrument :
BNA_F
ClientSampleId :
PIT#1

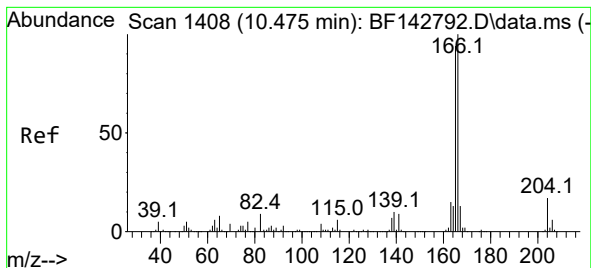
Tgt Ion:154 Resp: 168399
Ion Ratio Lower Upper
154 100
153 113.4 90.0 135.0
152 52.4 41.9 62.9



#55
Dibenzofuran
Concen: 16.683 ng
RT: 10.122 min Scan# 1348
Delta R.T. -0.006 min
Lab File: BF143020.D
Acq: 07 Jul 2025 20:51

Tgt Ion:168 Resp: 148823
Ion Ratio Lower Upper
168 100
139 38.0 30.2 45.4
169 15.5 10.8 16.2





#58

Fluorene

Concen: 34.944 ng

RT: 10.469 min Scan# 1407

Delta R.T. -0.006 min

Lab File: BF143020.D

Acq: 07 Jul 2025 20:51

Instrument :

BNA_F

ClientSampleId :

PIT#1

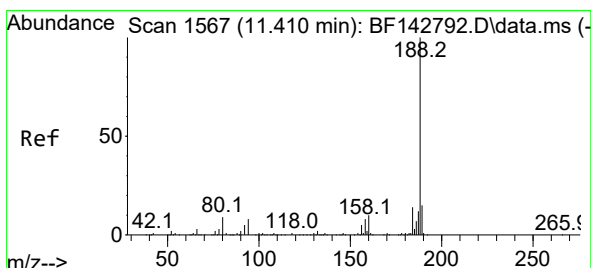
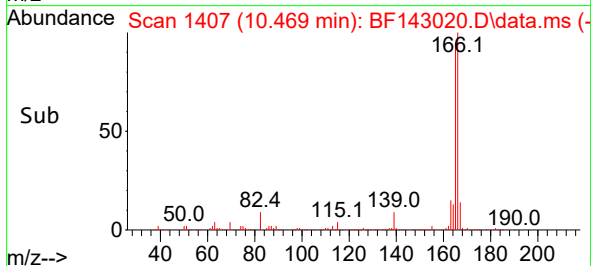
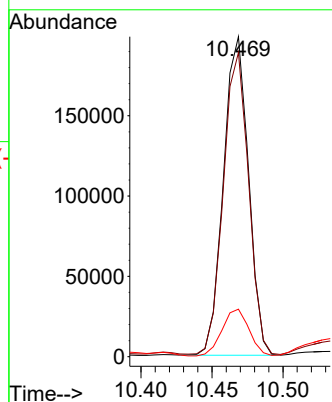
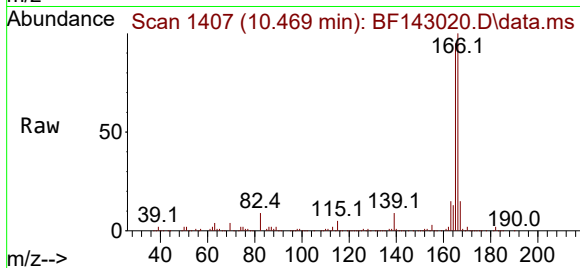
Tgt Ion:166 Resp: 243461

Ion Ratio Lower Upper

166 100

165 95.1 75.2 112.8

167 14.9 10.6 15.8



#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.416 min Scan# 1568

Delta R.T. 0.006 min

Lab File: BF143020.D

Acq: 07 Jul 2025 20:51

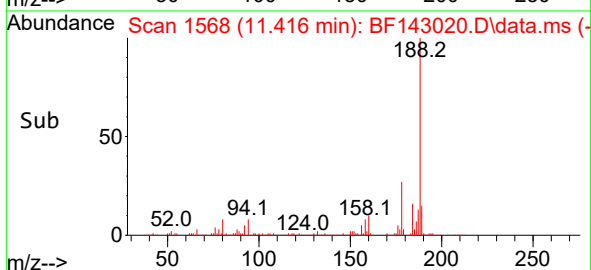
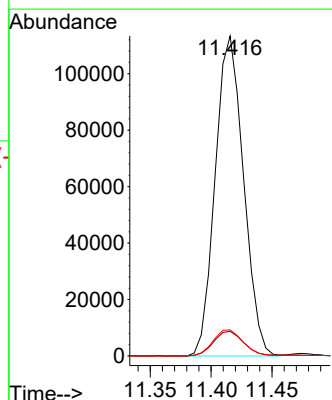
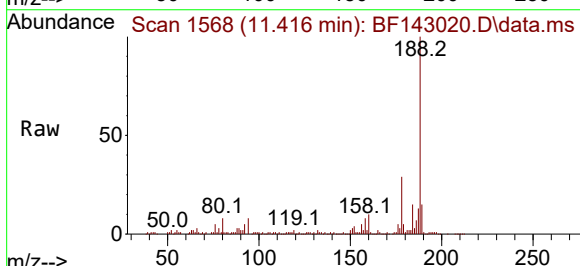
Tgt Ion:188 Resp: 183059

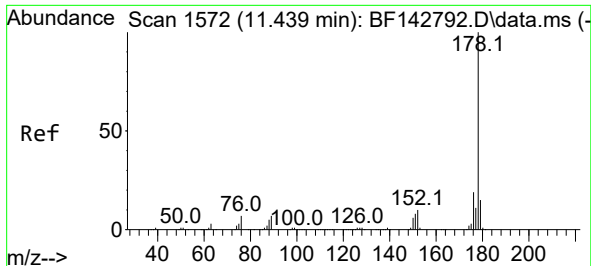
Ion Ratio Lower Upper

188 100

94 7.7 6.7 10.1

80 8.2 6.9 10.3

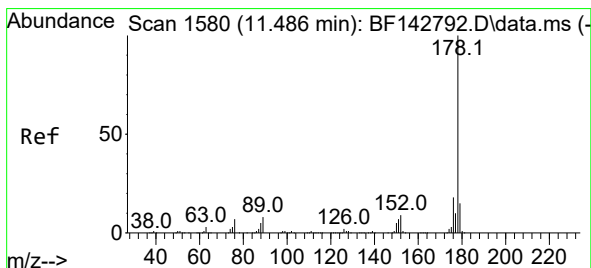
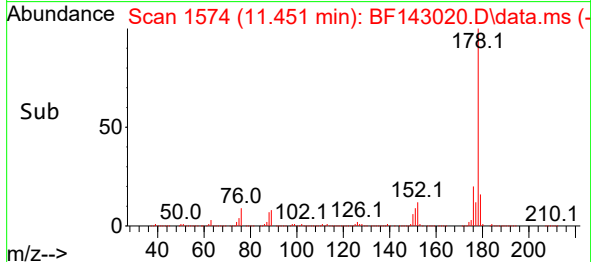
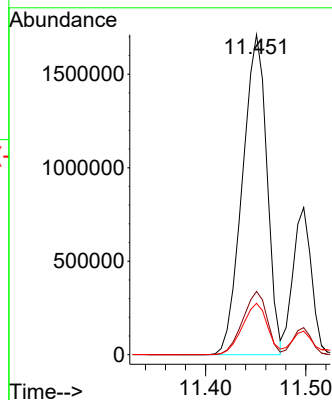
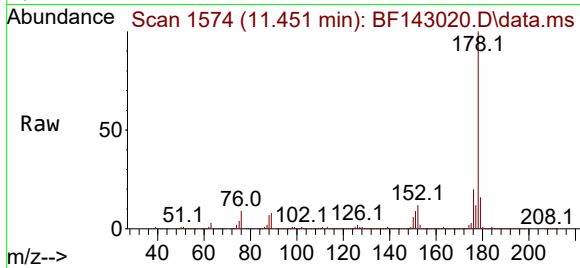




#71
Phenanthrene
Concen: 292.936 ng
RT: 11.451 min Scan# 1574
Delta R.T. 0.012 min
Lab File: BF143020.D
Acq: 07 Jul 2025 20:51

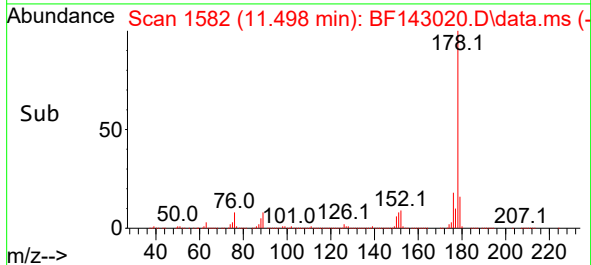
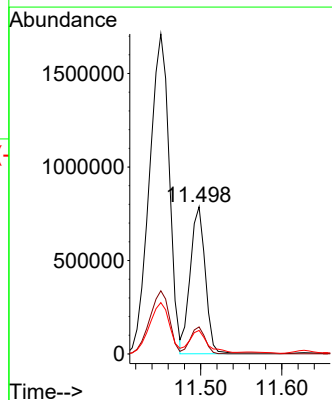
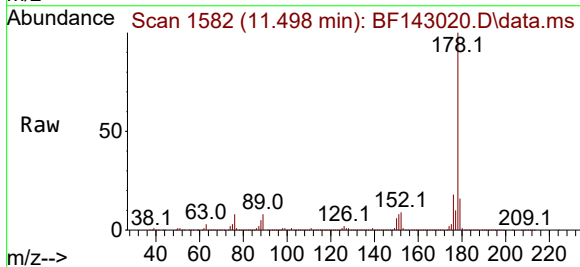
Instrument :
BNA_F
ClientSampleId :
PIT#1

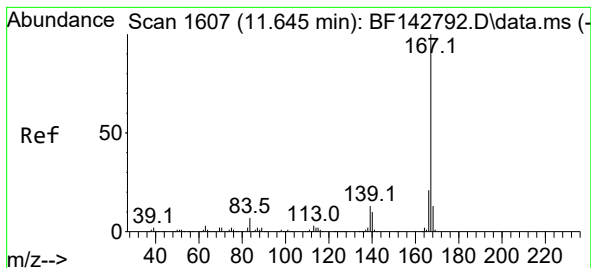
Tgt Ion:178 Resp: 2904839
Ion Ratio Lower Upper
178 100
176 19.7 15.1 22.7
179 16.0 12.0 18.0



#72
Anthracene
Concen: 100.199 ng
RT: 11.498 min Scan# 1582
Delta R.T. 0.012 min
Lab File: BF143020.D
Acq: 07 Jul 2025 20:51

Tgt Ion:178 Resp: 1019032
Ion Ratio Lower Upper
178 100
176 18.4 14.6 21.8
179 16.0 12.4 18.6





#73

Carbazole

Concen: 11.680 ng

RT: 11.645 min Scan# 1

Delta R.T. -0.000 min

Lab File: BF143020.D

Acq: 07 Jul 2025 20:51

Instrument :

BNA_F

ClientSampleId :

PIT#1

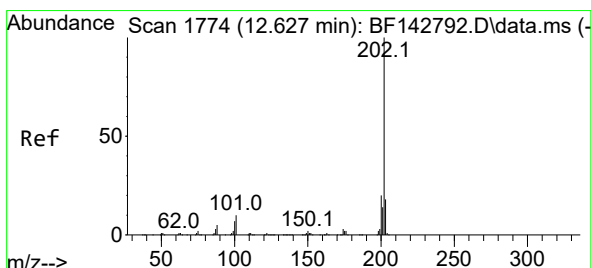
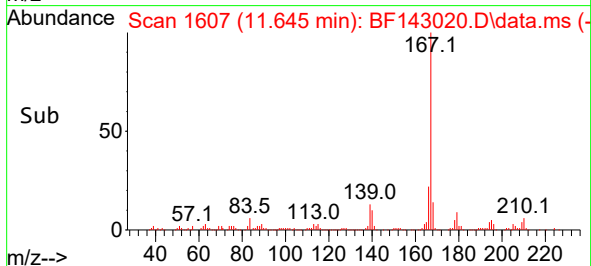
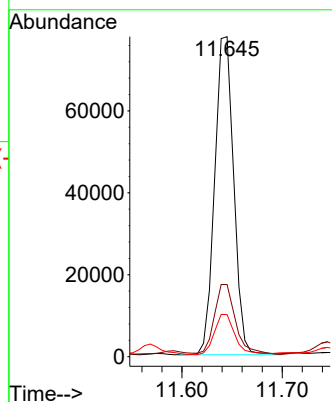
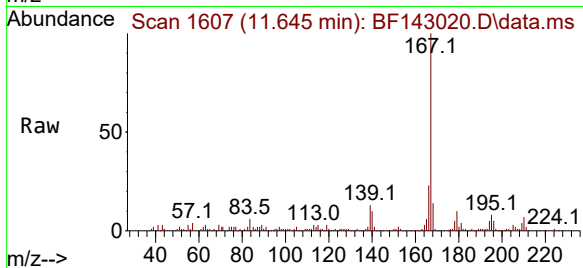
Tgt Ion:167 Resp: 102508

Ion Ratio Lower Upper

167 100

166 22.6 17.0 25.4

139 13.2 10.2 15.2



#75

Fluoranthene

Concen: 387.308 ng

RT: 12.651 min Scan# 1778

Delta R.T. 0.023 min

Lab File: BF143020.D

Acq: 07 Jul 2025 20:51

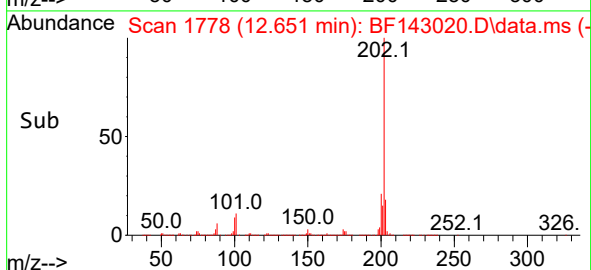
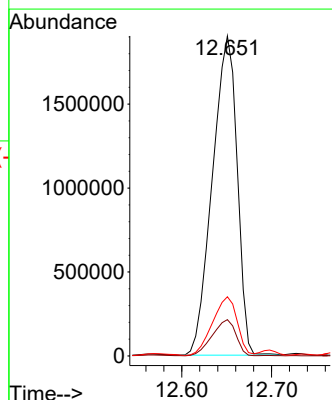
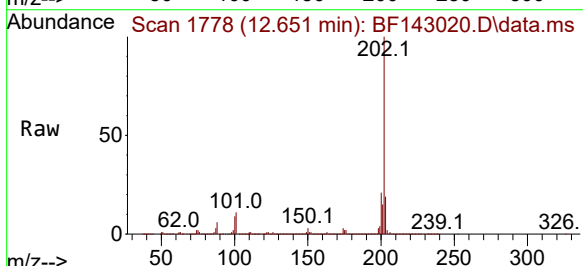
Tgt Ion:202 Resp: 3644986

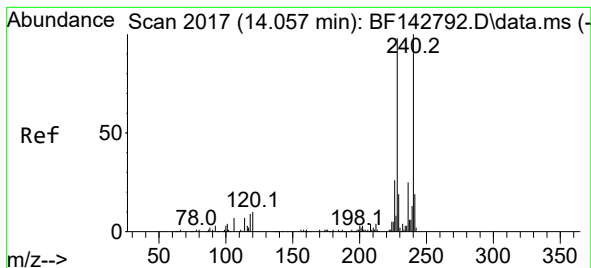
Ion Ratio Lower Upper

202 100

101 11.4 0.0 29.7

203 18.5 0.0 37.5





#76

Chrysene-d12

Concen: 20.000 ng

RT: 14.074 min Scan# 20

Delta R.T. 0.018 min

Lab File: BF143020.D

Acq: 07 Jul 2025 20:51

Instrument :

BNA_F

ClientSampleId :

PIT#1

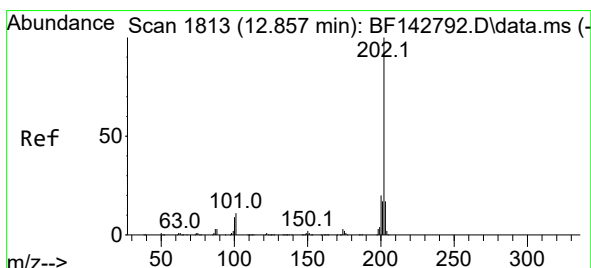
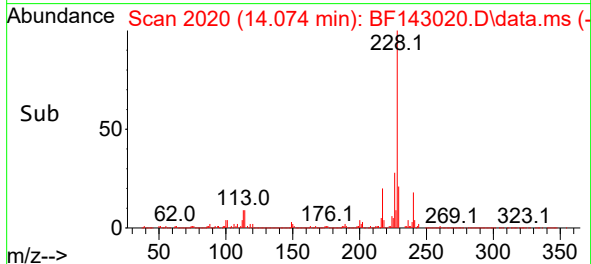
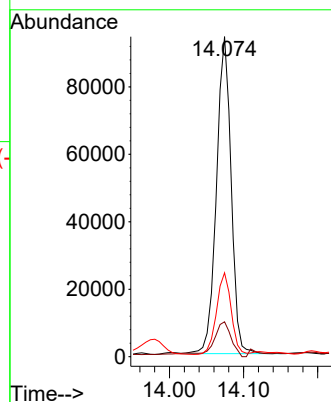
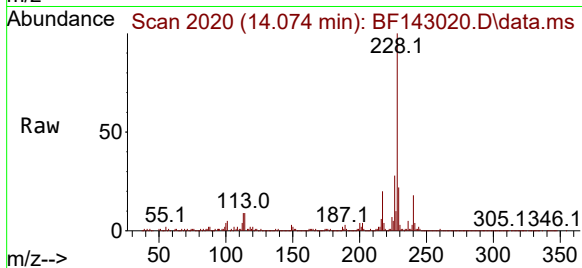
Tgt Ion:240 Resp: 128705

Ion Ratio Lower Upper

240 100

120 10.9 8.2 12.2

236 26.2 19.8 29.8



#78

Pyrene

Concen: 269.141 ng m

RT: 12.880 min Scan# 1817

Delta R.T. 0.023 min

Lab File: BF143020.D

Acq: 07 Jul 2025 20:51

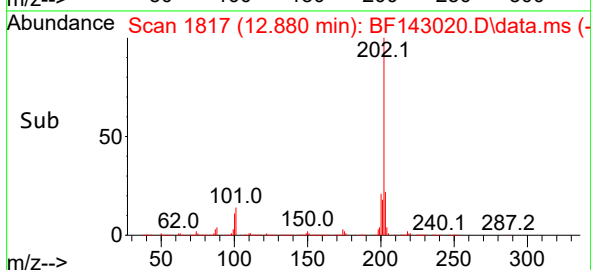
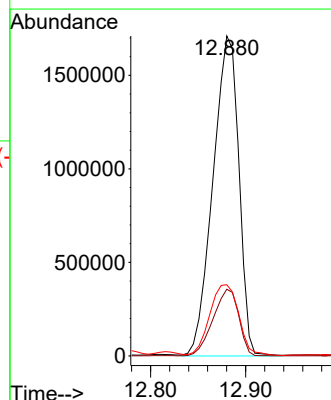
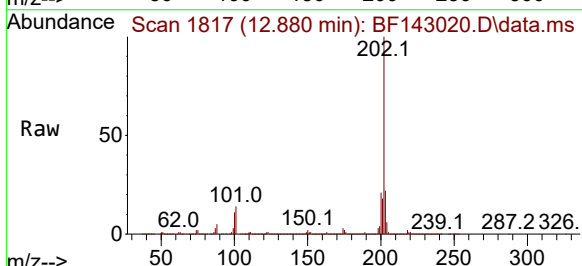
Tgt Ion:202 Resp: 3246928

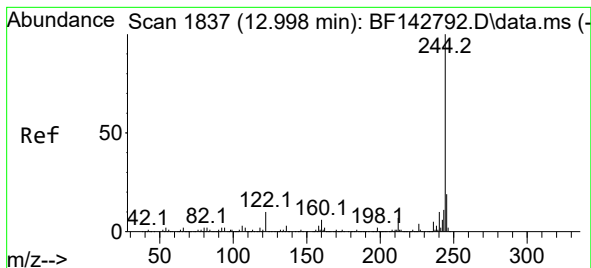
Ion Ratio Lower Upper

202 100

200 20.8 15.7 23.5

203 22.2 13.8 20.6#





#79

Terphenyl-d14

Concen: 23.549 ng

RT: 12.998 min Scan# 11

Delta R.T. -0.000 min

Lab File: BF143020.D

Acq: 07 Jul 2025 20:51

Instrument :

BNA_F

ClientSampleId :

PIT#1

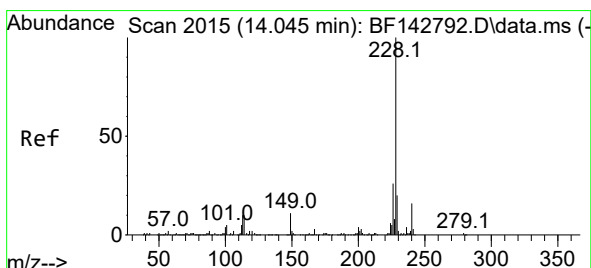
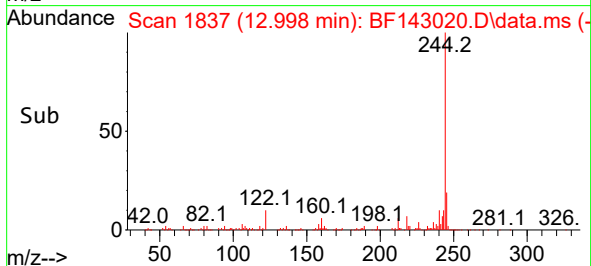
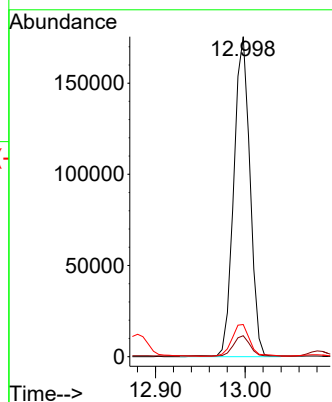
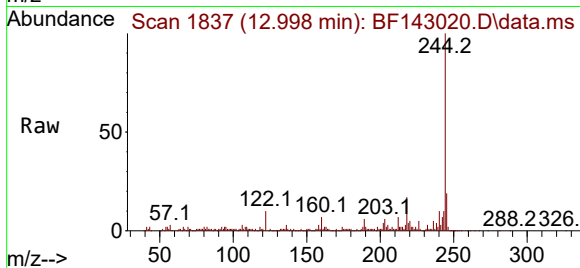
Tgt Ion:244 Resp: 219359

Ion Ratio Lower Upper

244 100

212 6.5 5.4 8.0

122 10.0 8.2 12.2



#81

Benzo(a)anthracene

Concen: 176.001 ng

RT: 14.062 min Scan# 2018

Delta R.T. 0.018 min

Lab File: BF143020.D

Acq: 07 Jul 2025 20:51

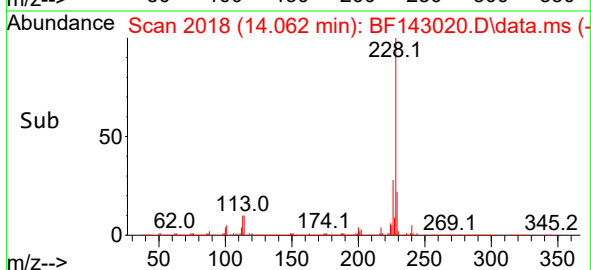
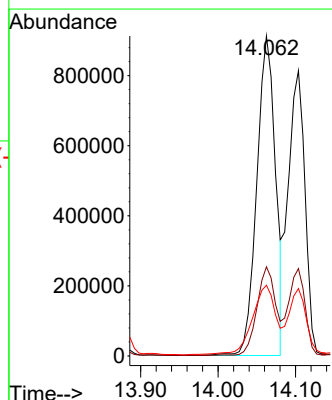
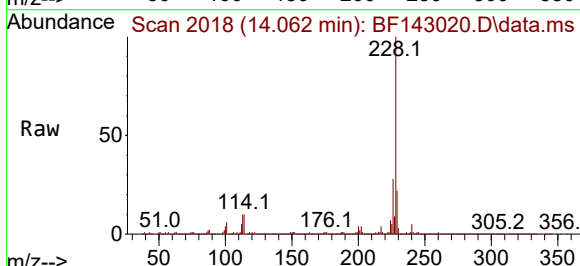
Tgt Ion:228 Resp: 1528136

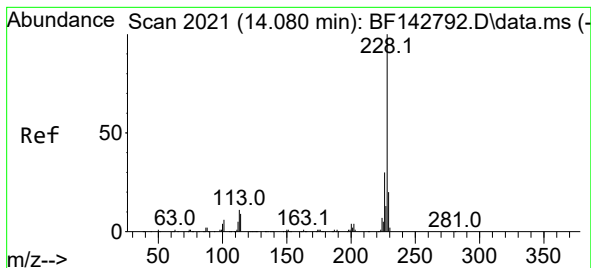
Ion Ratio Lower Upper

228 100

226 27.9 21.2 31.8

229 22.1 15.6 23.4





#83

Chrysene

Concen: 157.503 ng m

RT: 14.104 min Scan# 20

Delta R.T. 0.023 min

Lab File: BF143020.D

Acq: 07 Jul 2025 20:51

Instrument :

BNA_F

ClientSampleId :

PIT#1

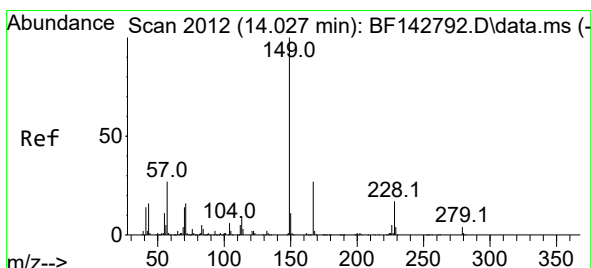
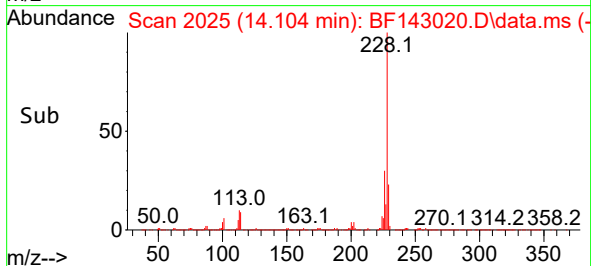
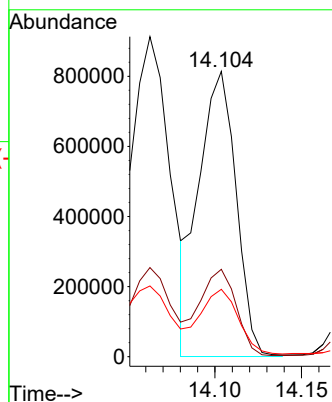
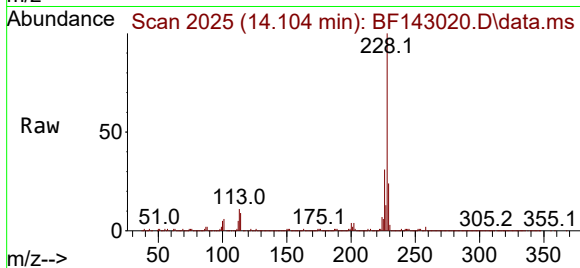
Tgt Ion:228 Resp: 1220269

Ion Ratio Lower Upper

228 100

226 30.6 23.7 35.5

229 23.6 15.7 23.5#



#84

Bis(2-ethylhexyl)phthalate

Concen: 3.935 ng

RT: 14.027 min Scan# 2012

Delta R.T. -0.000 min

Lab File: BF143020.D

Acq: 07 Jul 2025 20:51

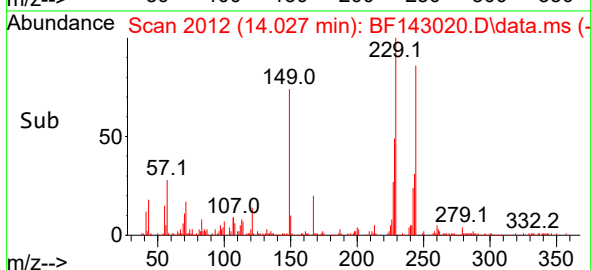
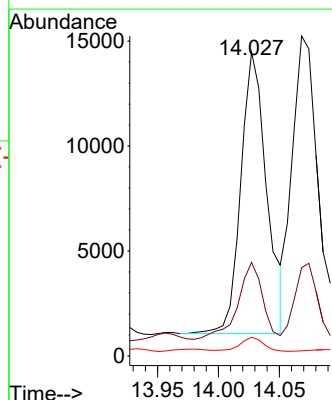
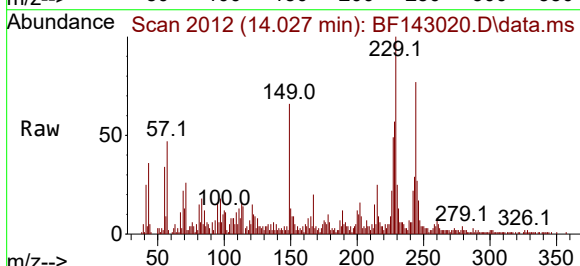
Tgt Ion:149 Resp: 19810

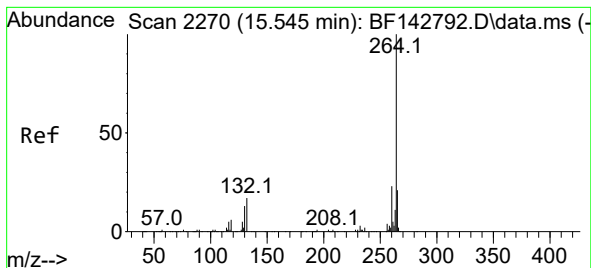
Ion Ratio Lower Upper

149 100

167 30.8 21.4 32.0

279 6.2 3.0 4.6#





#86

Perylene-d12

Concen: 20.000 ng

RT: 15.568 min Scan# 21

Delta R.T. 0.023 min

Lab File: BF143020.D

Acq: 07 Jul 2025 20:51

Instrument :

BNA_F

ClientSampleId :

PIT#1

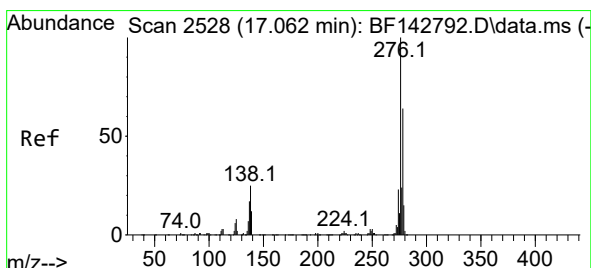
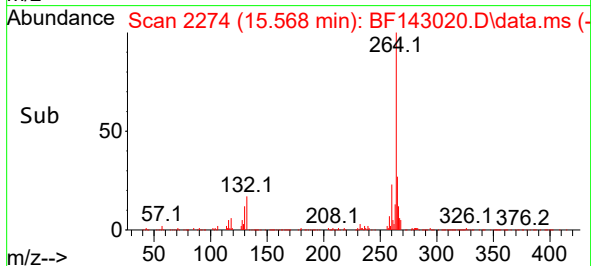
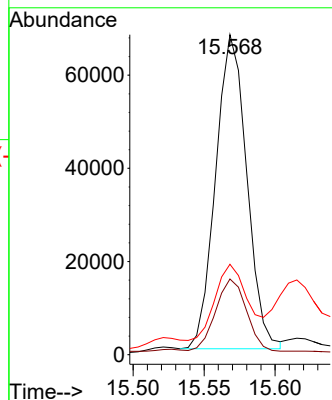
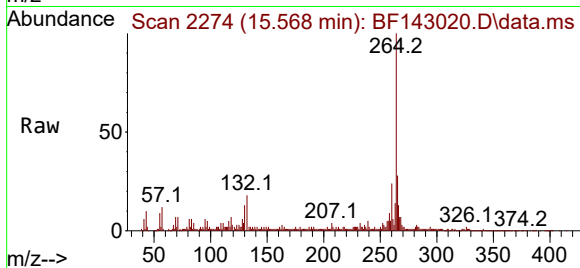
Tgt Ion:264 Resp: 102828

Ion Ratio Lower Upper

264 100

260 23.6 18.1 27.1

265 28.2 16.6 25.0#



#87

Indeno(1,2,3-cd)pyrene

Concen: 51.478 ng

RT: 17.103 min Scan# 2535

Delta R.T. 0.041 min

Lab File: BF143020.D

Acq: 07 Jul 2025 20:51

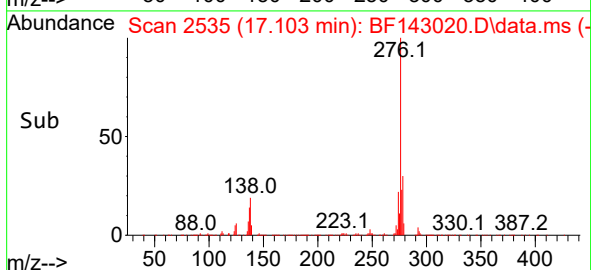
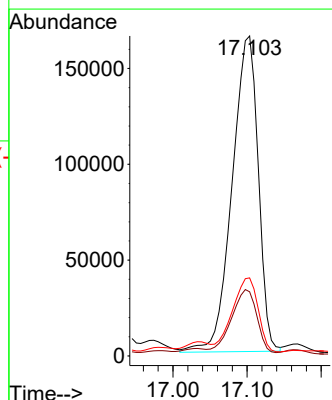
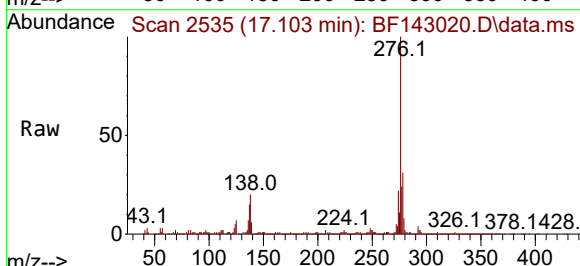
Tgt Ion:276 Resp: 403195

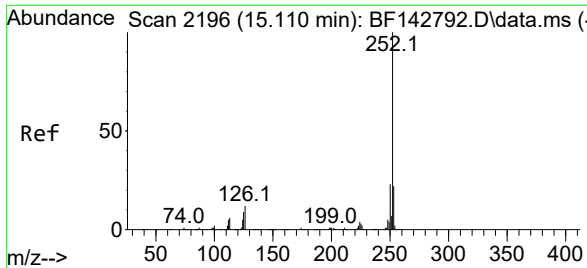
Ion Ratio Lower Upper

276 100

138 19.8 20.2 30.4#

277 23.2 19.8 29.6

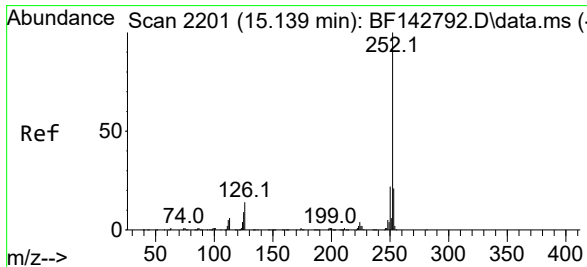
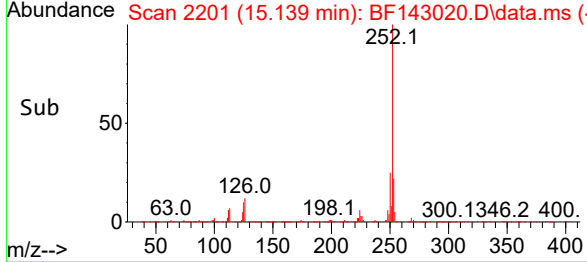
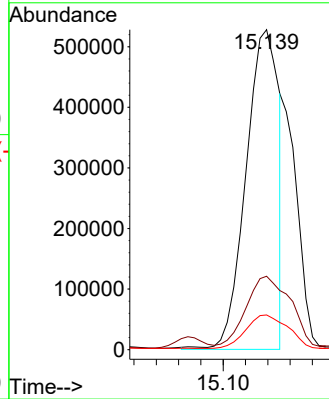
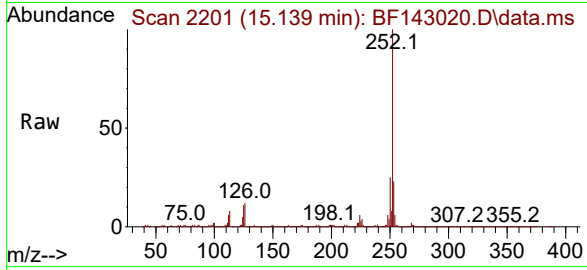




#88
Benzo(b)fluoranthene
Concen: 181.382 ng m
RT: 15.139 min Scan# 2196
Delta R.T. 0.029 min
Lab File: BF143020.D
Acq: 07 Jul 2025 20:51

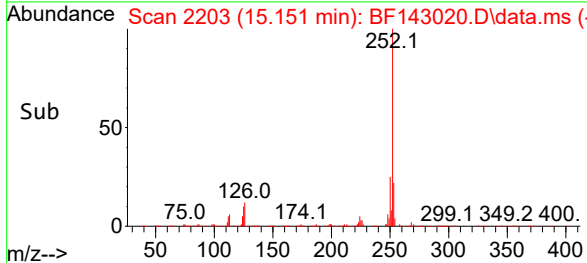
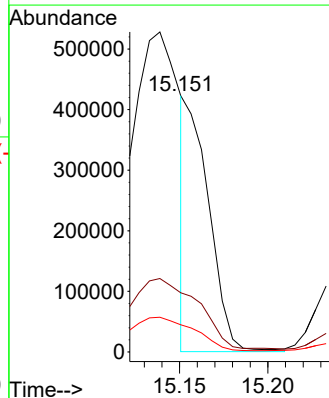
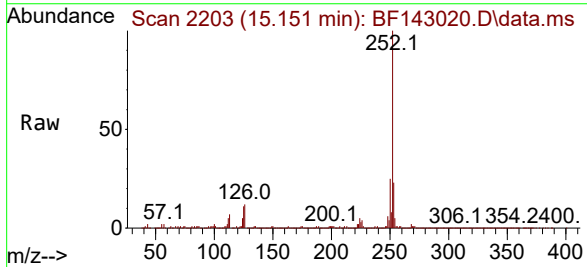
Instrument :
BNA_F
ClientSampleId :
PIT#1

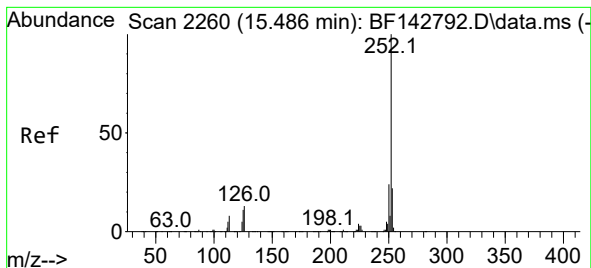
Tgt Ion:252 Resp: 1079237
Ion Ratio Lower Upper
252 100
253 22.9 17.5 26.3
125 10.8 7.4 11.0



#89
Benzo(k)fluoranthene
Concen: 67.233 ng m
RT: 15.151 min Scan# 2203
Delta R.T. 0.012 min
Lab File: BF143020.D
Acq: 07 Jul 2025 20:51

Tgt Ion:252 Resp: 374270
Ion Ratio Lower Upper
252 100
253 23.1 17.2 25.8
125 10.6 7.4 11.2





#90

Benzo(a)pyrene

Concen: 139.631 ng

RT: 15.515 min Scan# 21

Delta R.T. 0.029 min

Lab File: BF143020.D

Acq: 07 Jul 2025 20:51

Instrument :

BNA_F

ClientSampleId :

PIT#1

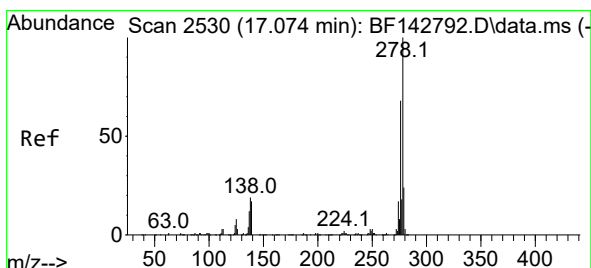
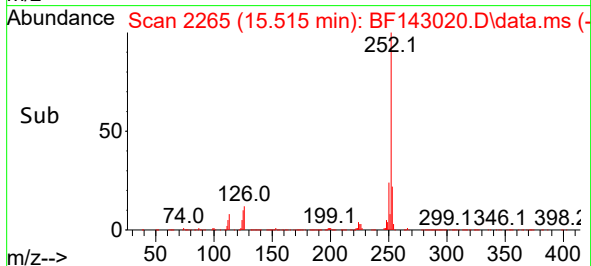
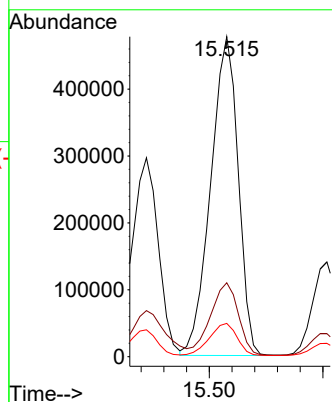
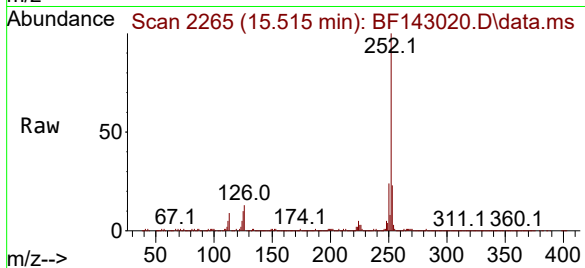
Tgt Ion:252 Resp: 802628

Ion Ratio Lower Upper

252 100

253 23.1 17.5 26.3

125 10.4 8.6 12.8



#91

Dibenzo(a,h)anthracene

Concen: 16.383 ng

RT: 17.103 min Scan# 2535

Delta R.T. 0.029 min

Lab File: BF143020.D

Acq: 07 Jul 2025 20:51

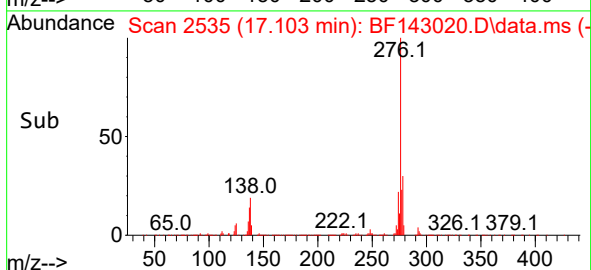
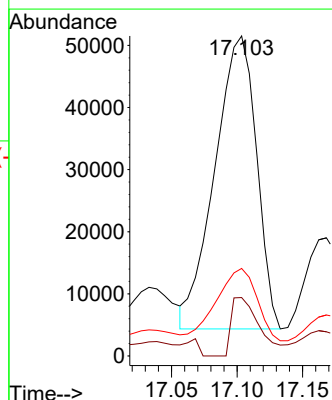
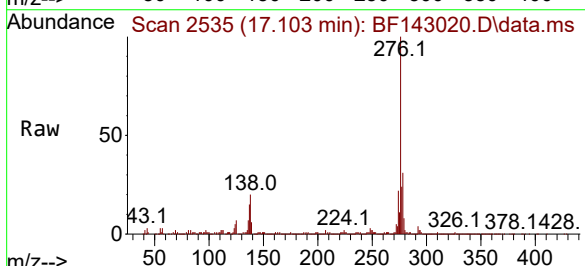
Tgt Ion:278 Resp: 104257

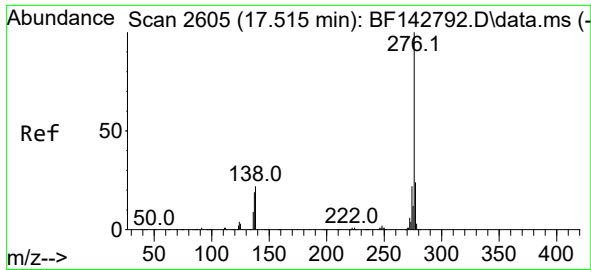
Ion Ratio Lower Upper

278 100

139 18.2 13.5 20.3

279 27.3 18.8 28.2





#92

Benzo(g,h,i)perylene

Concen: 55.484 ng

RT: 17.568 min Scan# 20

Delta R.T. 0.053 min

Lab File: BF143020.D

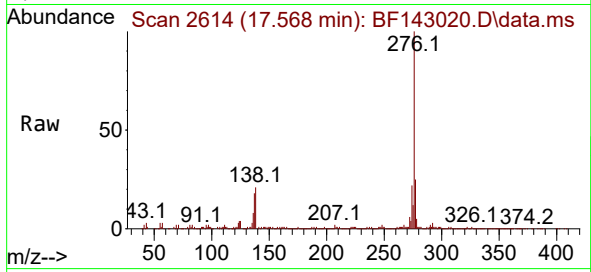
Acq: 07 Jul 2025 20:51

Instrument :

BNA_F

ClientSampleId :

PIT#1



Tgt Ion:276 Resp: 352094

Ion Ratio Lower Upper

276 100

277 24.8 18.8 28.2

138 20.9 17.6 26.4

