

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF051525\
 Data File : BF142407.D
 Acq On : 15 May 2025 22:33
 Operator : RC/JU
 Sample : Q2038-01
 Misc :
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 72-11991

Quant Time: May 16 01:10:31 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF050525.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon May 05 18:41:44 2025
 Response via : Initial Calibration

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

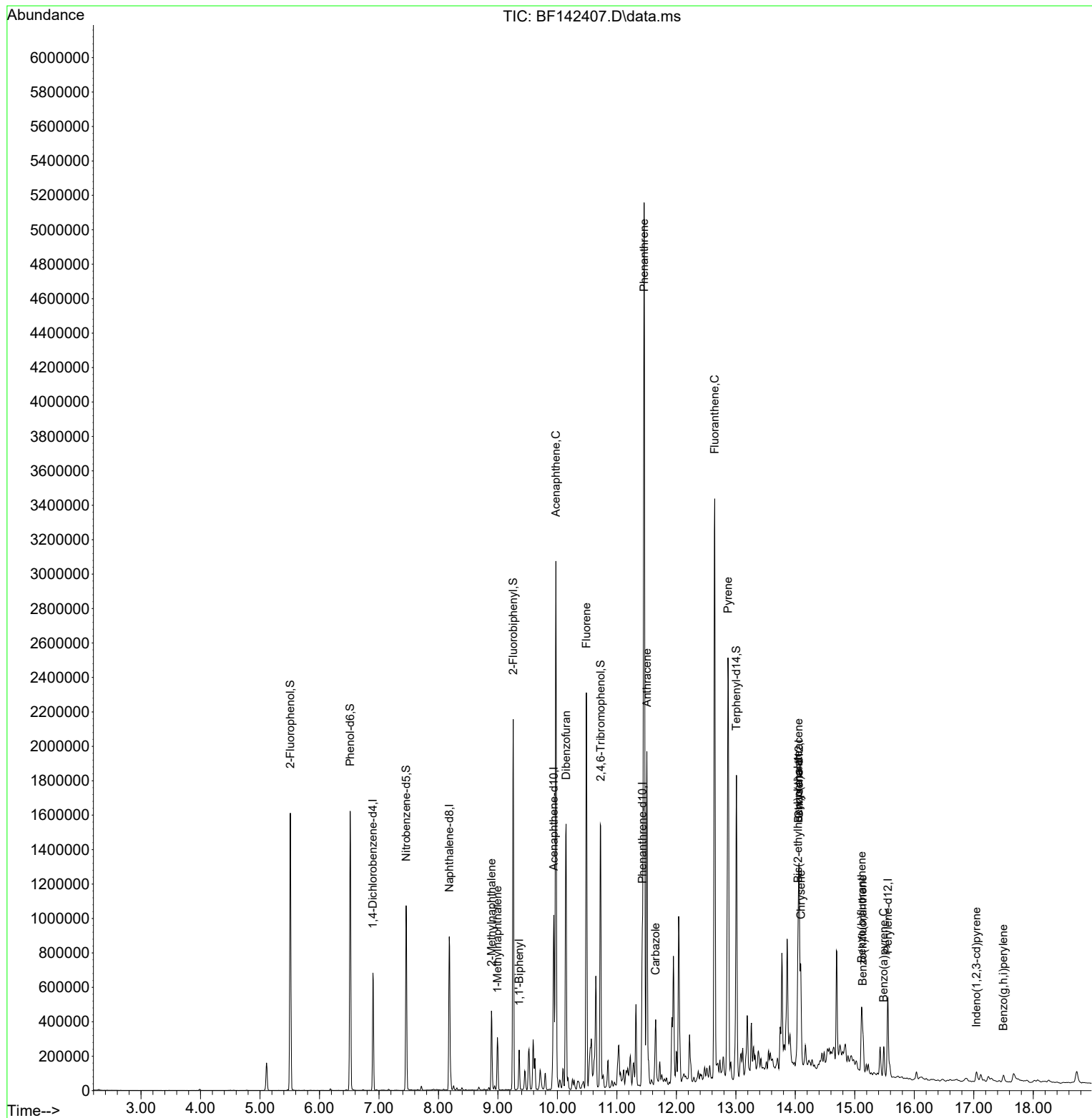
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.898	152	148215	20.000	ng	0.00
21) Naphthalene-d8	8.181	136	565689	20.000	ng	0.00
39) Acenaphthene-d10	9.939	164	308248	20.000	ng	0.00
64) Phenanthrene-d10	11.427	188	485050	20.000	ng	0.00
76) Chrysene-d12	14.063	240	338055	20.000	ng	0.00
86) Perylene-d12	15.557	264	274259	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.510	112	606841	69.893	ng	0.00
7) Phenol-d6	6.516	99	746697	69.924	ng	0.00
23) Nitrobenzene-d5	7.457	82	435217	46.921	ng	-0.01
42) 2,4,6-Tribromophenol	10.727	330	213493	71.736	ng	0.00
45) 2-Fluorobiphenyl	9.257	172	951236	44.002	ng	0.00
79) Terphenyl-d14	13.010	244	815162	35.690	ng	0.00
Target Compounds						Qvalue
37) 2-Methylnaphthalene	8.892	142	176180	10.342	ng	99
38) 1-Methylnaphthalene	8.992	142	112188	6.318	ng	100
46) 1,1'-Biphenyl	9.357	154	99038	4.190	ng	98
52) Acenaphthene	9.975	154	959605	54.277	ng	99
55) Dibenzofuran	10.145	168	876554	33.595	ng	99
58) Fluorene	10.486	166	930183	46.714	ng	99
71) Phenanthrene	11.457	178	2969342	116.788	ng	98
72) Anthracene	11.504	178	1078795	41.295	ng	99
73) Carbazole	11.651	167	191357	8.164	ng	99
75) Fluoranthene	12.645	202	2069091	81.410	ng	99
78) Pyrene	12.868	202	1492254	49.593	ng	97
81) Benzo(a)anthracene	14.057	228	392187	17.914	ng	97
83) Chrysene	14.092	228	301517	14.794	ng	97
84) Bis(2-ethylhexyl)phtha...	14.045	149	31520	6.750	ng	93
87) Indeno(1,2,3-cd)pyrene	17.045	276	44920	2.355	ng	97
88) Benzo(b)fluoranthene	15.115	252	266406m	16.038	ng	
89) Benzo(k)fluoranthene	15.133	252	89746m	5.904	ng	
90) Benzo(a)pyrene	15.486	252	111222	7.472	ng	99
92) Benzo(g,h,i)perylene	17.498	276	38196	2.442	ng	97

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

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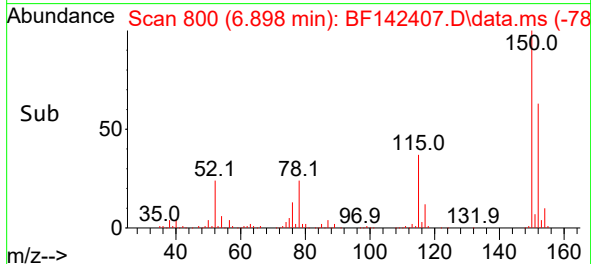
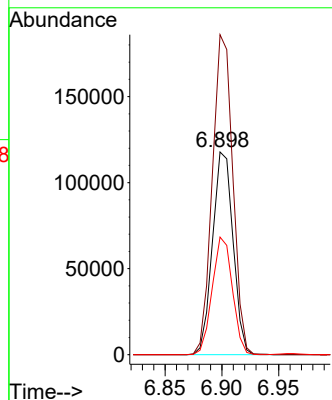
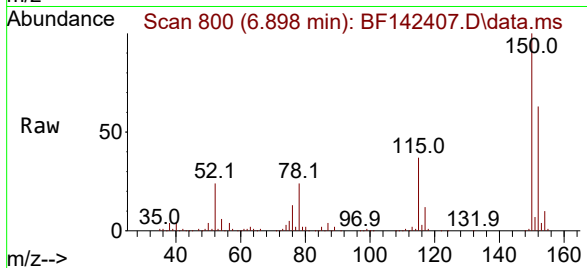




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.898 min Scan# 801
Delta R.T. -0.006 min
Lab File: BF142407.D
Acq: 15 May 2025 22:33

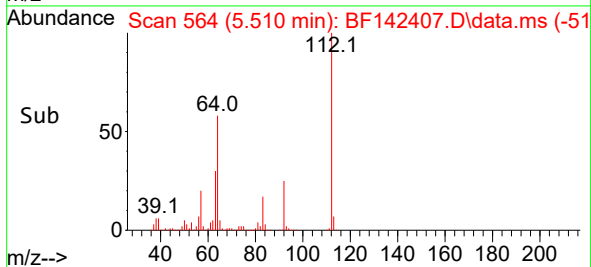
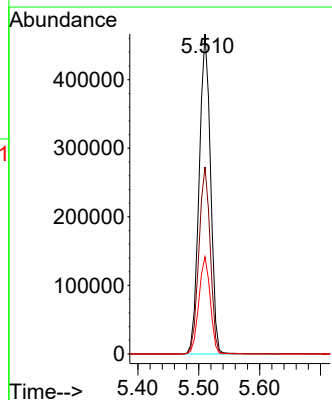
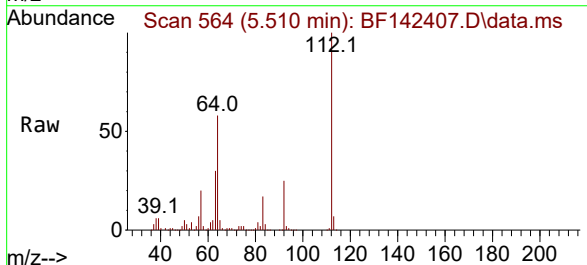
Instrument :
BNA_F
ClientSampleId :
72-11991

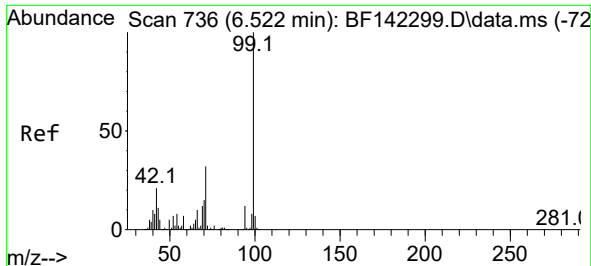
Tgt Ion:152 Resp: 148215
Ion Ratio Lower Upper
152 100
150 157.9 126.6 190.0
115 58.0 47.3 70.9



#5
2-Fluorophenol
Concen: 69.893 ng
RT: 5.510 min Scan# 564
Delta R.T. -0.000 min
Lab File: BF142407.D
Acq: 15 May 2025 22:33

Tgt Ion:112 Resp: 606841
Ion Ratio Lower Upper
112 100
64 58.4 48.9 73.3
63 30.3 25.6 38.4

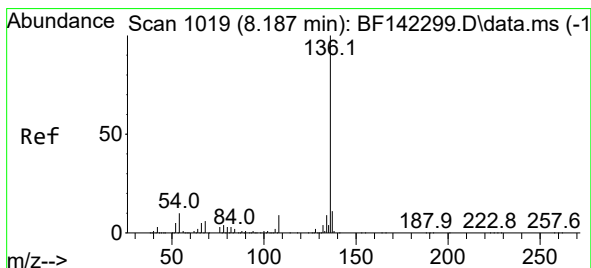
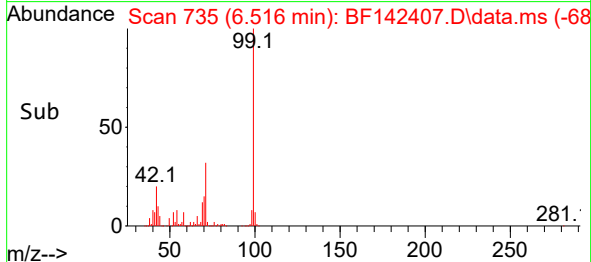
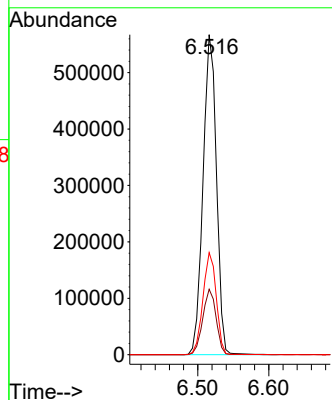
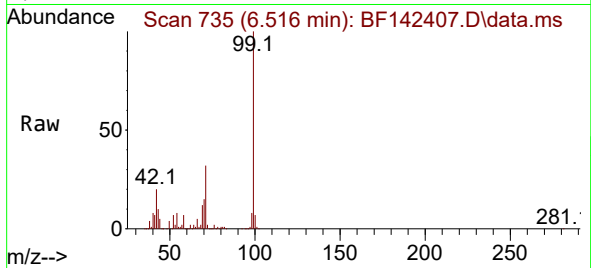




#7
Phenol-d6
Concen: 69.924 ng
RT: 6.516 min Scan# 71
Delta R.T. -0.006 min
Lab File: BF142407.D
Acq: 15 May 2025 22:33

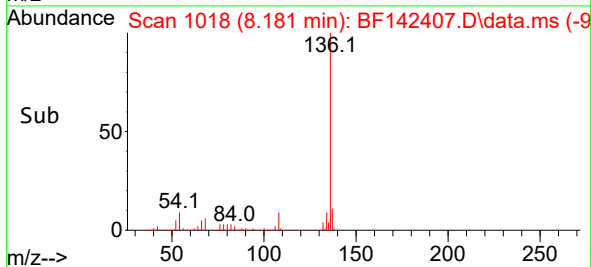
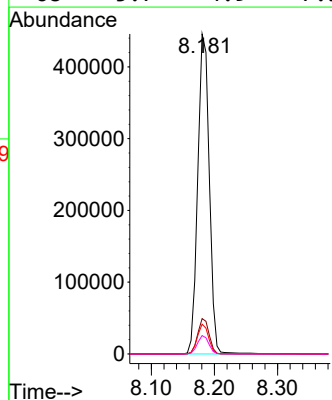
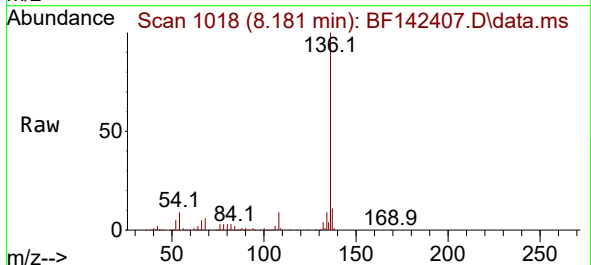
Instrument :
BNA_F
ClientSampleId :
72-11991

Tgt Ion: 99 Resp: 746697
Ion Ratio Lower Upper
99 100
42 20.5 17.0 25.4
71 31.9 25.8 38.8



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.181 min Scan# 1018
Delta R.T. -0.006 min
Lab File: BF142407.D
Acq: 15 May 2025 22:33

Tgt Ion: 136 Resp: 565689
Ion Ratio Lower Upper
136 100
137 11.1 8.9 13.3
54 9.3 7.7 11.5
68 5.7 4.9 7.3





#23

Nitrobenzene-d5

Concen: 46.921 ng

RT: 7.457 min Scan# 89

Delta R.T. -0.012 min

Lab File: BF142407.D

Acq: 15 May 2025 22:33

Instrument :

BNA_F

ClientSampleId :

72-11991

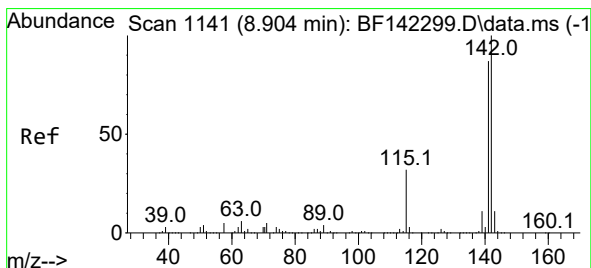
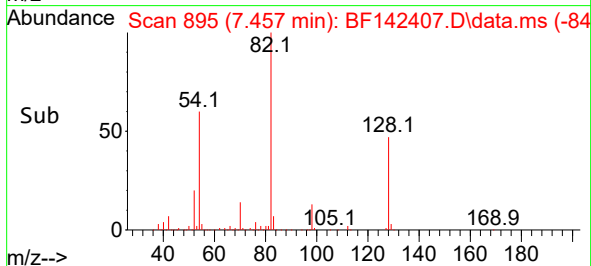
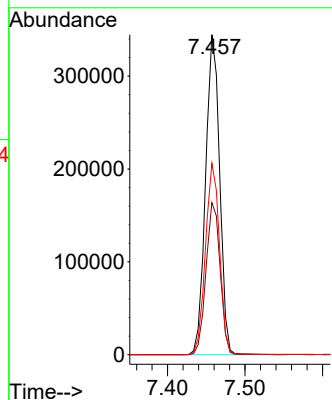
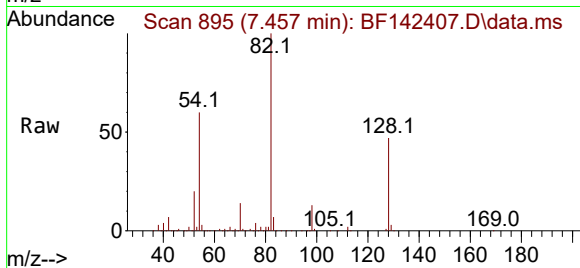
Tgt Ion: 82 Resp: 435217

Ion Ratio Lower Upper

82 100

128 47.5 37.0 55.6

54 59.8 48.6 73.0



#37

2-Methylnaphthalene

Concen: 10.342 ng

RT: 8.892 min Scan# 1139

Delta R.T. -0.012 min

Lab File: BF142407.D

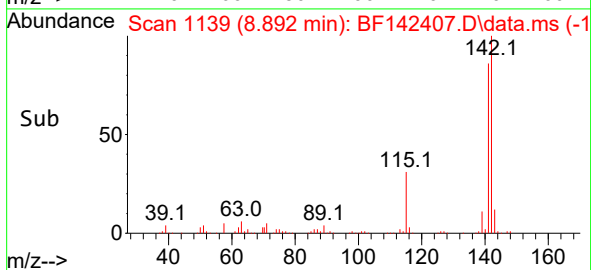
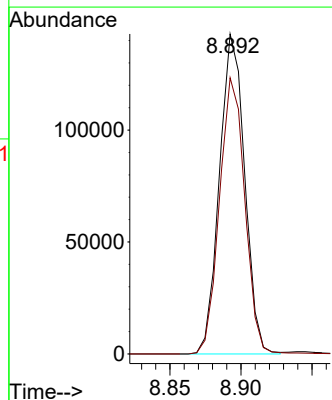
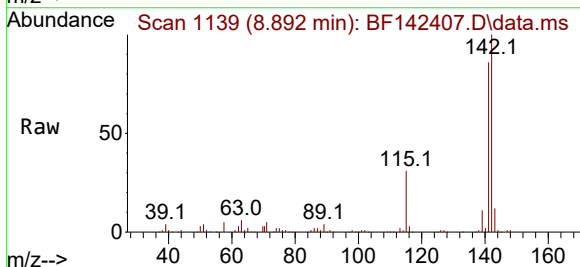
Acq: 15 May 2025 22:33

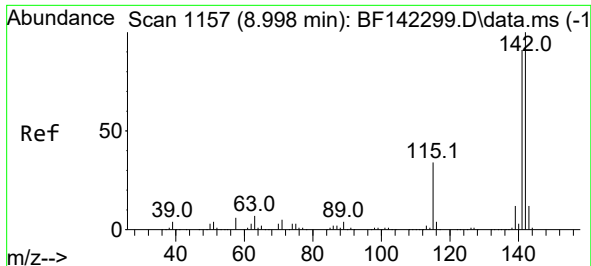
Tgt Ion:142 Resp: 176180

Ion Ratio Lower Upper

142 100

141 86.3 69.4 104.2





#38

1-Methylnaphthalene

Concen: 6.318 ng

RT: 8.992 min Scan# 1156

Delta R.T. -0.006 min

Lab File: BF142407.D

Acq: 15 May 2025 22:33

Instrument :

BNA_F

ClientSampleId :

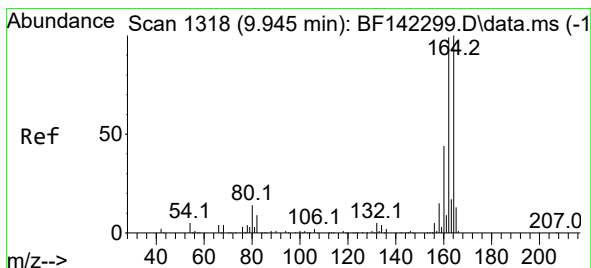
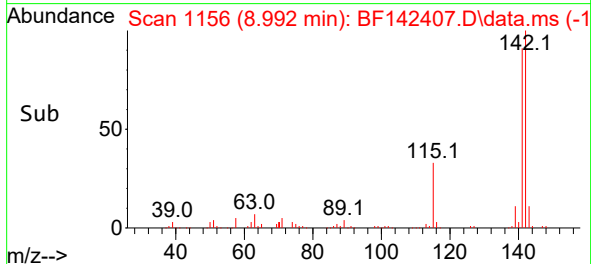
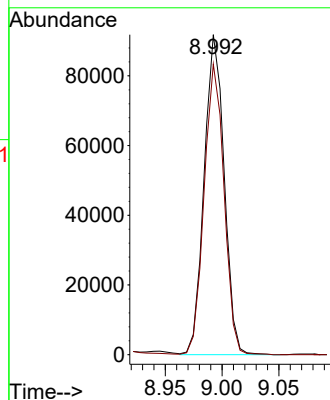
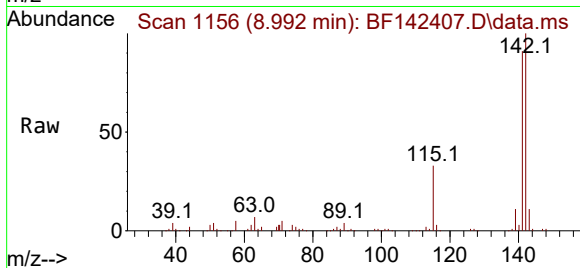
72-11991

Tgt Ion:142 Resp: 112188

Ion Ratio Lower Upper

142 100

141 90.8 72.5 108.7



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.939 min Scan# 1317

Delta R.T. -0.006 min

Lab File: BF142407.D

Acq: 15 May 2025 22:33

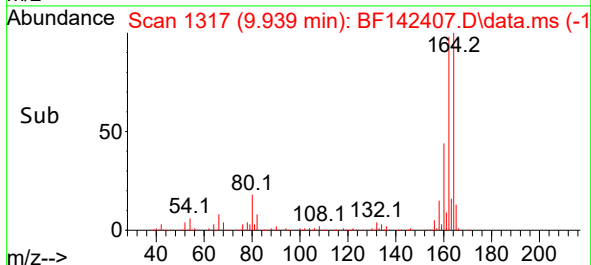
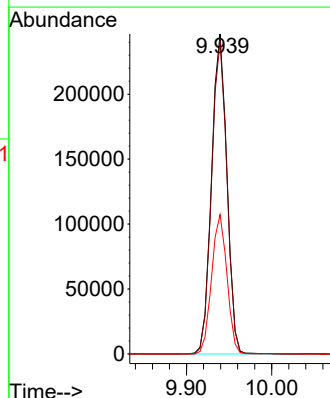
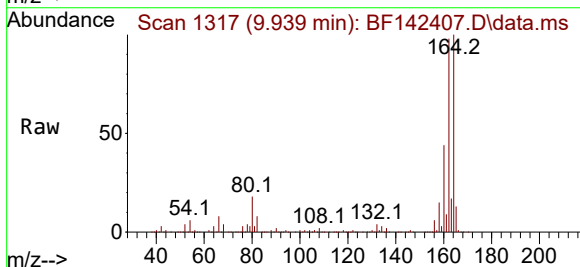
Tgt Ion:164 Resp: 308248

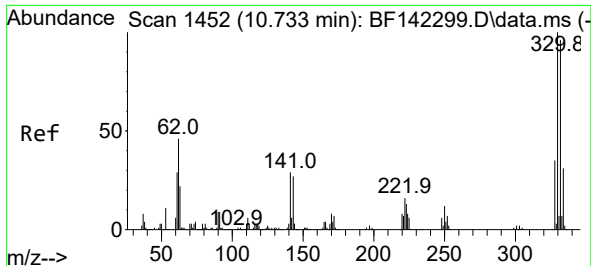
Ion Ratio Lower Upper

164 100

162 97.8 79.2 118.8

160 43.6 35.3 52.9





#42

2,4,6-Tribromophenol

Concen: 71.736 ng

RT: 10.727 min Scan# 1451

Delta R.T. -0.006 min

Lab File: BF142407.D

Acq: 15 May 2025 22:33

Instrument :

BNA_F

ClientSampleId :

72-11991

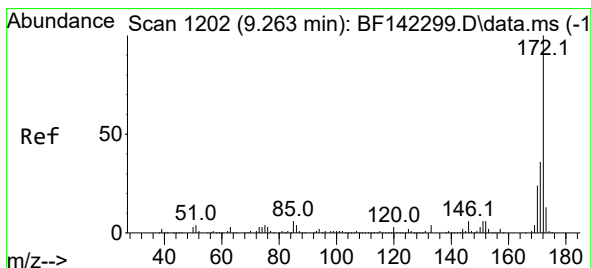
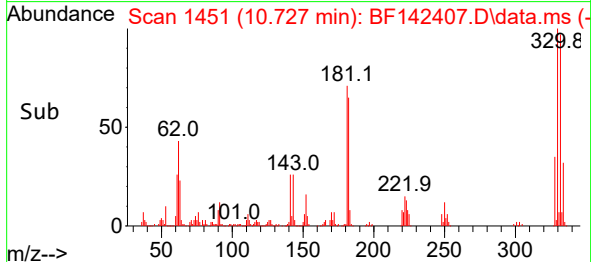
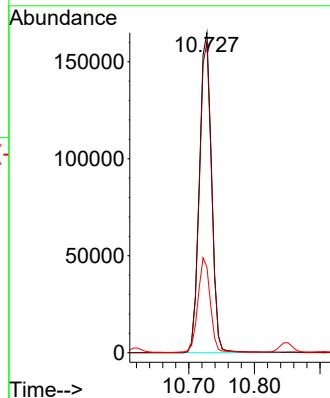
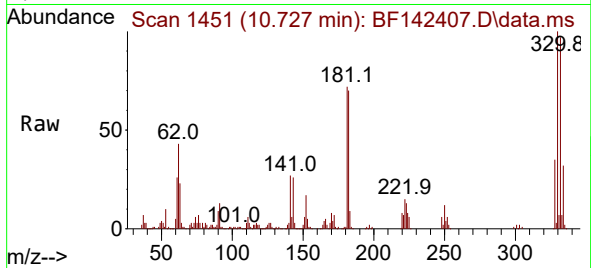
Tgt Ion:330 Resp: 213493

Ion Ratio Lower Upper

330 100

332 97.2 76.8 115.2

141 30.0 24.9 37.3



#45

2-Fluorobiphenyl

Concen: 44.002 ng

RT: 9.257 min Scan# 1201

Delta R.T. -0.006 min

Lab File: BF142407.D

Acq: 15 May 2025 22:33

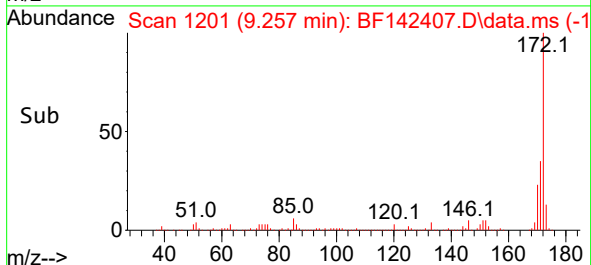
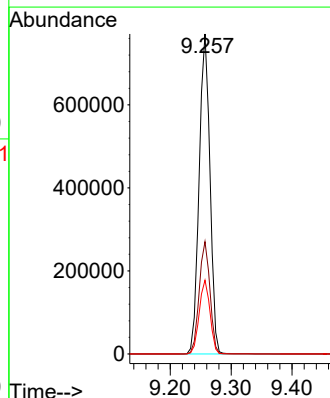
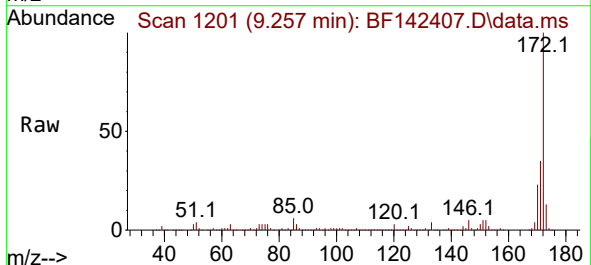
Tgt Ion:172 Resp: 951236

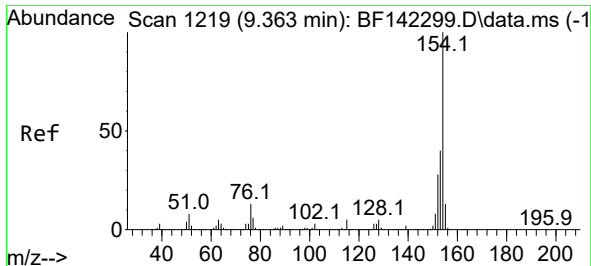
Ion Ratio Lower Upper

172 100

171 35.1 28.6 42.8

170 23.1 19.0 28.4

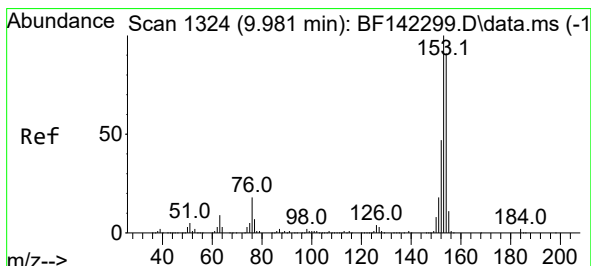
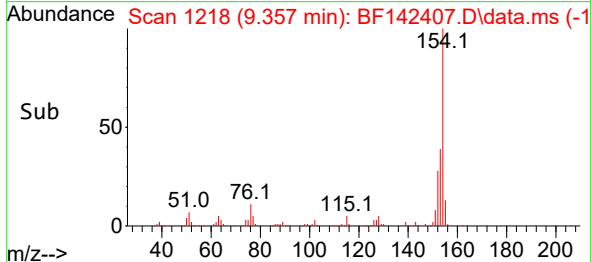
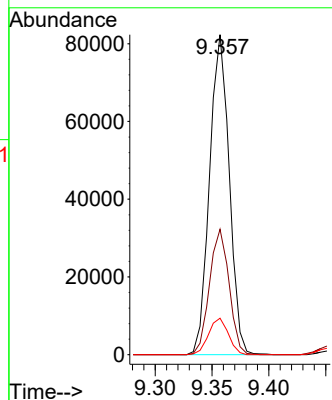
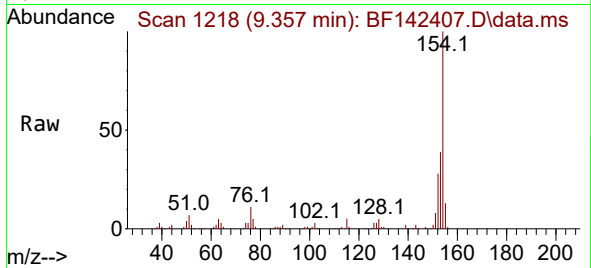




#46
 1,1'-Biphenyl
 Concen: 4.190 ng
 RT: 9.357 min Scan# 11
 Delta R.T. -0.006 min
 Lab File: BF142407.D
 Acq: 15 May 2025 22:33

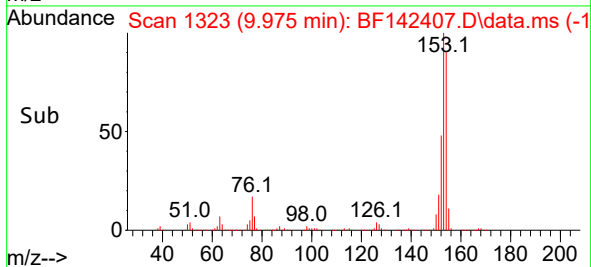
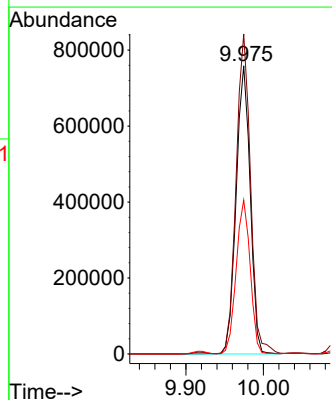
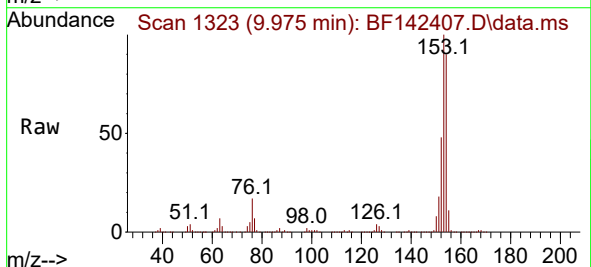
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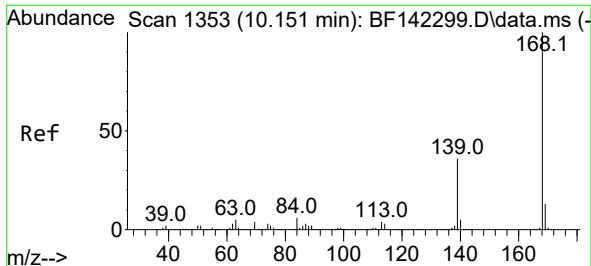
Tgt Ion:154 Resp: 99038
 Ion Ratio Lower Upper
 154 100
 153 39.2 20.5 60.5
 76 11.4 0.0 32.8



#52
 Acenaphthene
 Concen: 54.277 ng
 RT: 9.975 min Scan# 1323
 Delta R.T. -0.006 min
 Lab File: BF142407.D
 Acq: 15 May 2025 22:33

Tgt Ion:154 Resp: 959605
 Ion Ratio Lower Upper
 154 100
 153 111.1 88.0 132.0
 152 53.4 41.6 62.4

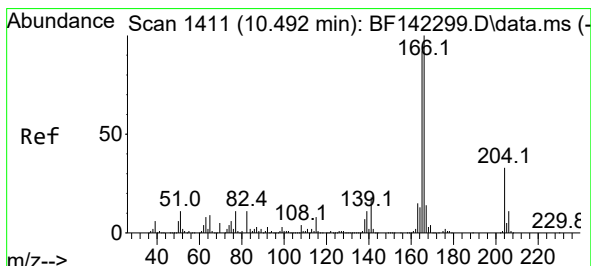
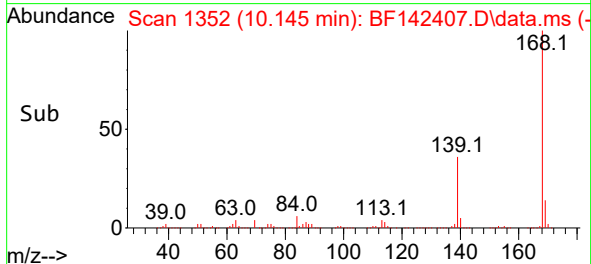
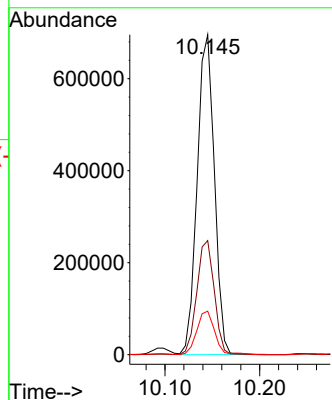
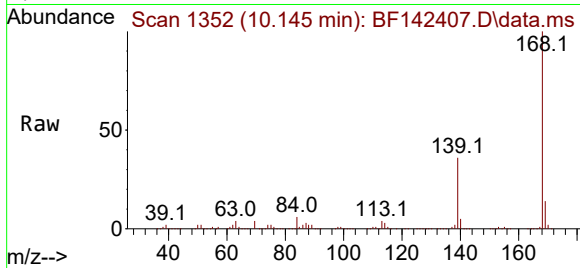




#55
Dibenzenofuran
Concen: 33.595 ng
RT: 10.145 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF142407.D
Acq: 15 May 2025 22:33

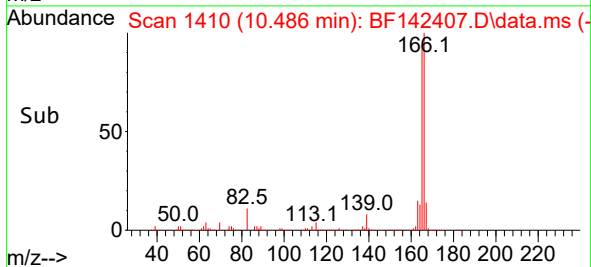
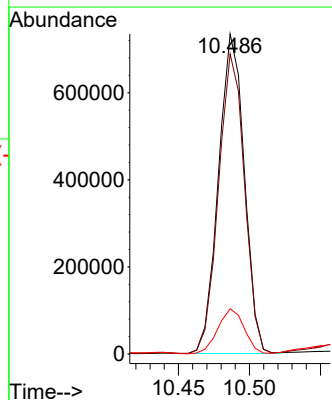
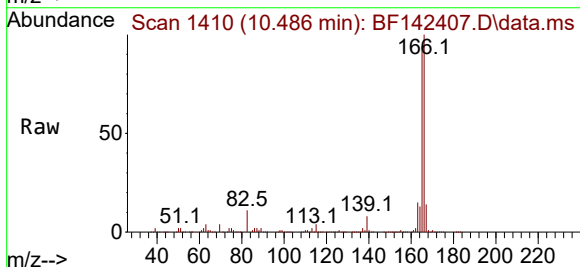
Instrument :
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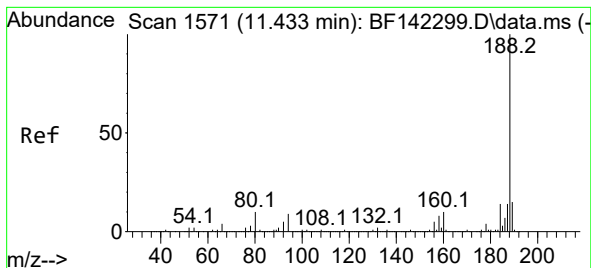
Tgt Ion:168 Resp: 876554
Ion Ratio Lower Upper
168 100
139 35.7 29.0 43.4
169 13.6 10.7 16.1



#58
Fluorene
Concen: 46.714 ng
RT: 10.486 min Scan# 1410
Delta R.T. -0.006 min
Lab File: BF142407.D
Acq: 15 May 2025 22:33

Tgt Ion:166 Resp: 930183
Ion Ratio Lower Upper
166 100
165 93.8 74.0 111.0
167 14.1 10.9 16.3





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.427 min Scan# 1

Delta R.T. -0.006 min

Lab File: BF142407.D

Acq: 15 May 2025 22:33

Instrument :

BNA_F

ClientSampleId :

72-11991

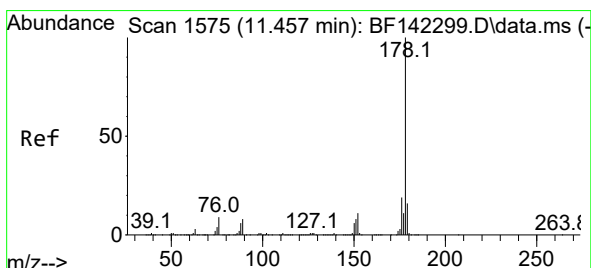
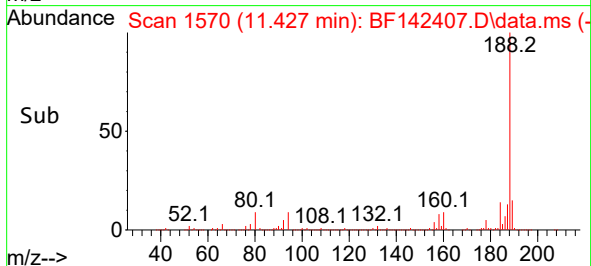
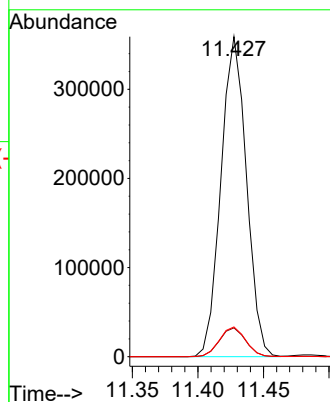
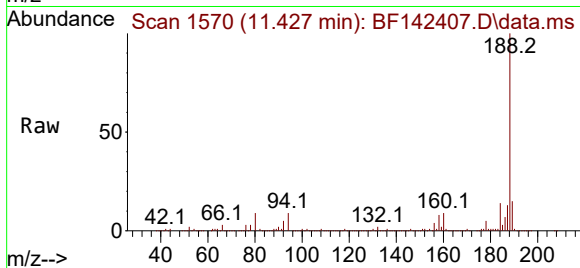
Tgt Ion:188 Resp: 485050

Ion Ratio Lower Upper

188 100

94 9.0 7.5 11.3

80 9.3 7.9 11.9



#71

Phenanthrene

Concen: 116.788 ng

RT: 11.457 min Scan# 1575

Delta R.T. -0.000 min

Lab File: BF142407.D

Acq: 15 May 2025 22:33

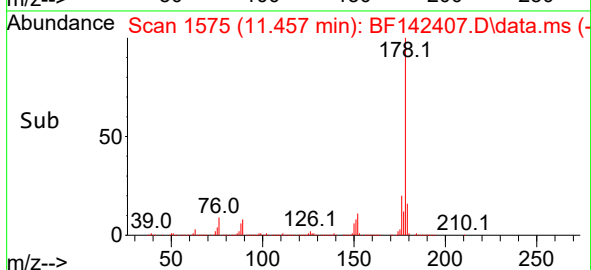
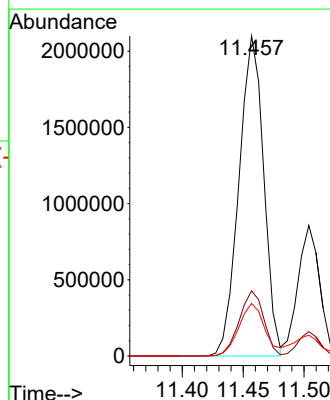
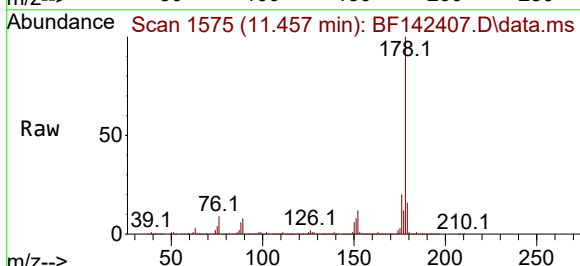
Tgt Ion:178 Resp: 2969342

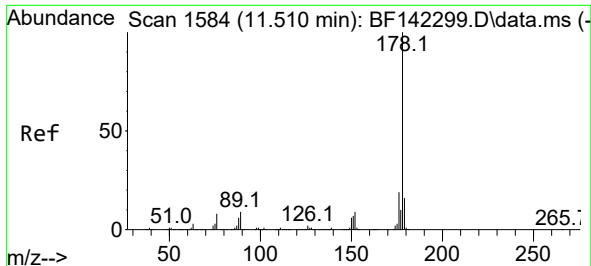
Ion Ratio Lower Upper

178 100

176 20.4 15.5 23.3

179 16.4 12.6 18.8

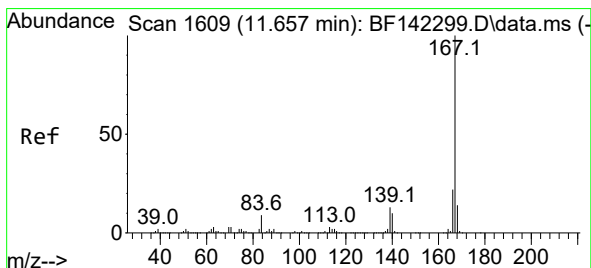
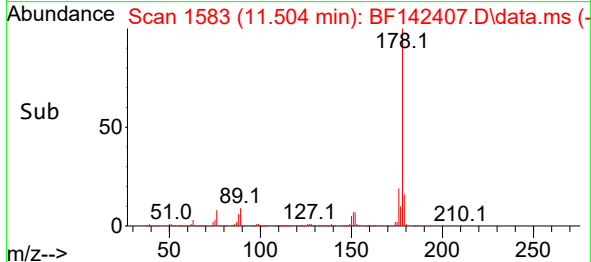
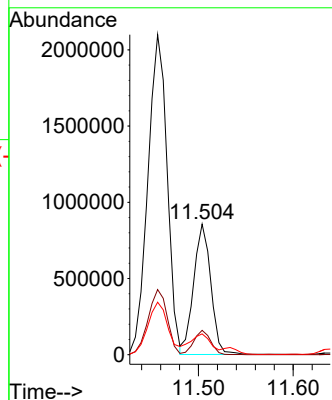
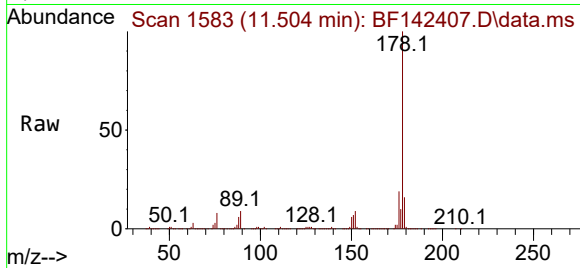




#72
Anthracene
Concen: 41.295 ng
RT: 11.504 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF142407.D
Acq: 15 May 2025 22:33

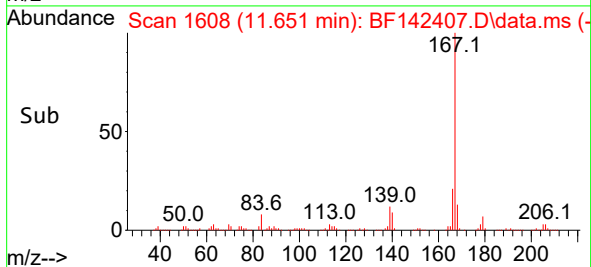
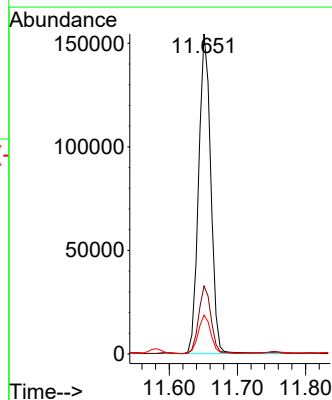
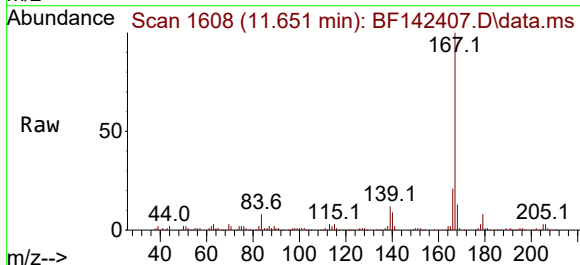
Instrument :
BNA_F
ClientSampleId :
72-11991

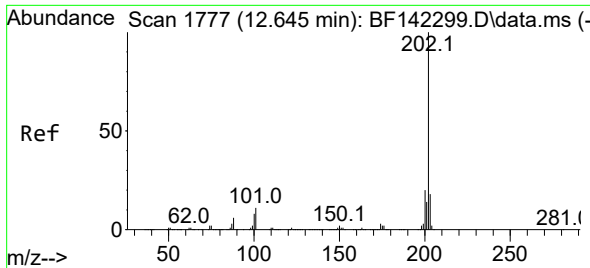
Tgt Ion:178 Resp: 1078795
Ion Ratio Lower Upper
178 100
176 18.7 15.3 22.9
179 15.9 12.6 18.8



#73
Carbazole
Concen: 8.164 ng
RT: 11.651 min Scan# 1608
Delta R.T. -0.006 min
Lab File: BF142407.D
Acq: 15 May 2025 22:33

Tgt Ion:167 Resp: 191357
Ion Ratio Lower Upper
167 100
166 21.2 17.2 25.8
139 12.1 10.3 15.5

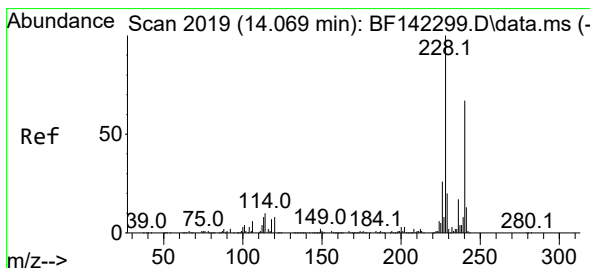
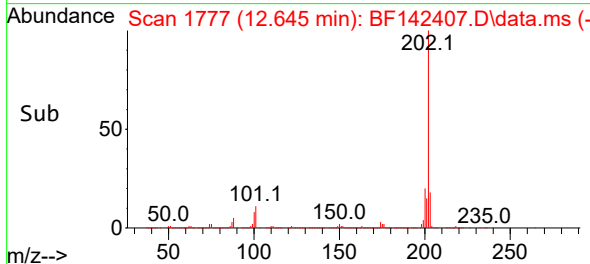
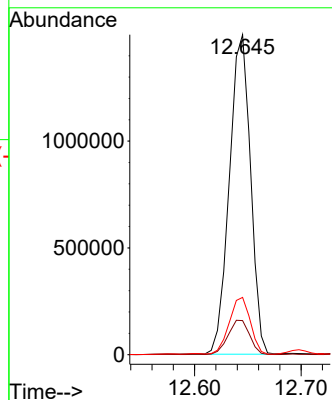
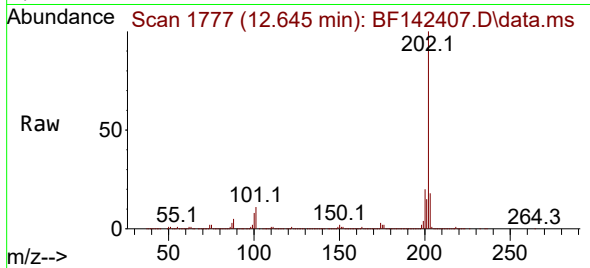




#75
Fluoranthene
Concen: 81.410 ng
RT: 12.645 min Scan# 11
Delta R.T. -0.000 min
Lab File: BF142407.D
Acq: 15 May 2025 22:33

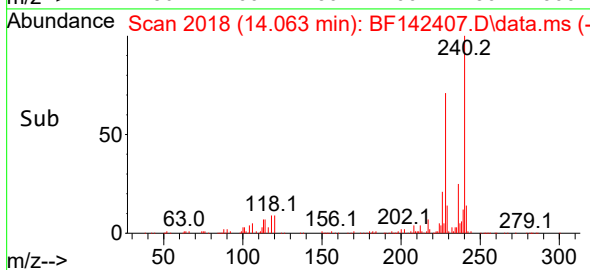
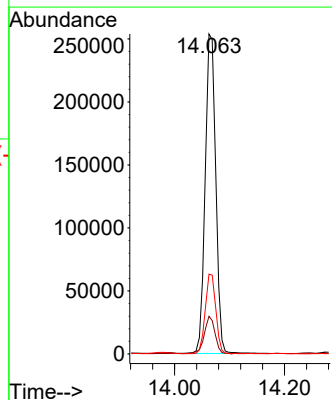
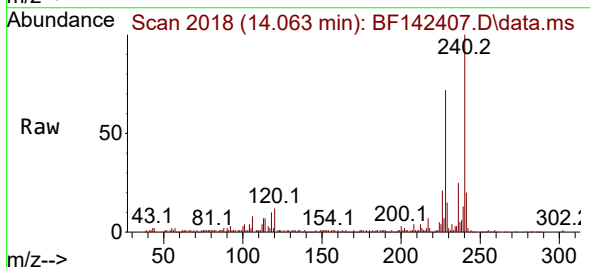
Instrument :
BNA_F
ClientSampleId :
72-11991

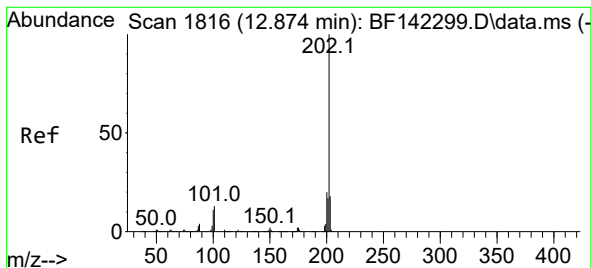
Tgt Ion:202 Resp: 2069091
Ion Ratio Lower Upper
202 100
101 10.7 0.0 31.4
203 17.9 0.0 37.9



#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.063 min Scan# 2018
Delta R.T. -0.006 min
Lab File: BF142407.D
Acq: 15 May 2025 22:33

Tgt Ion:240 Resp: 338055
Ion Ratio Lower Upper
240 100
120 11.8 9.7 14.5
236 24.9 20.0 30.0





#78

Pyrene

Concen: 49.593 ng

RT: 12.868 min Scan# 1815

Delta R.T. -0.006 min

Lab File: BF142407.D

Acq: 15 May 2025 22:33

Instrument :

BNA_F

ClientSampleId :

72-11991

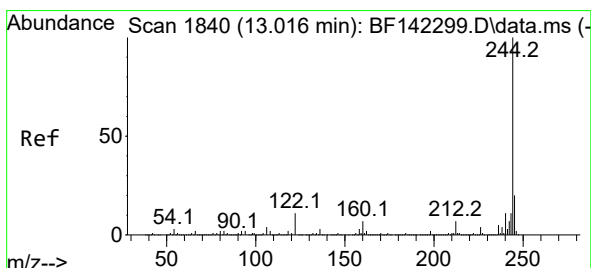
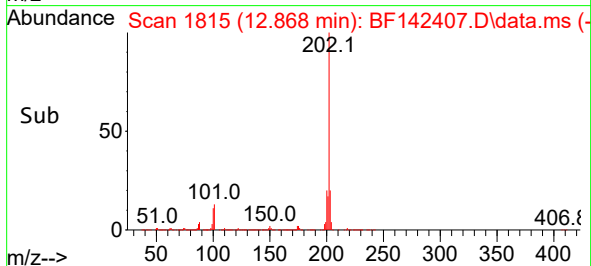
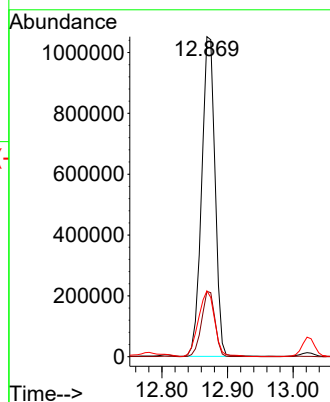
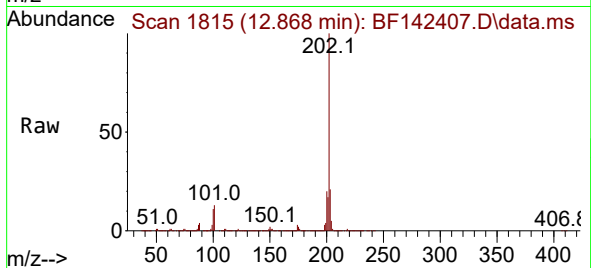
Tgt Ion:202 Resp: 1492254

Ion Ratio Lower Upper

202 100

200 20.4 16.2 24.4

203 20.6 14.3 21.5



#79

Terphenyl-d14

Concen: 35.690 ng

RT: 13.010 min Scan# 1839

Delta R.T. -0.006 min

Lab File: BF142407.D

Acq: 15 May 2025 22:33

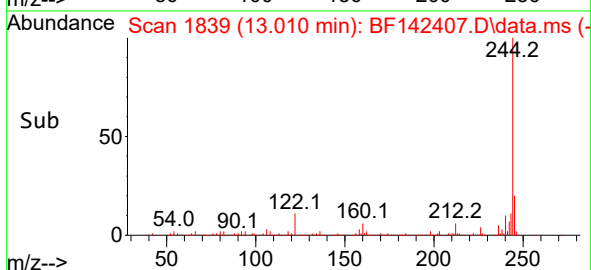
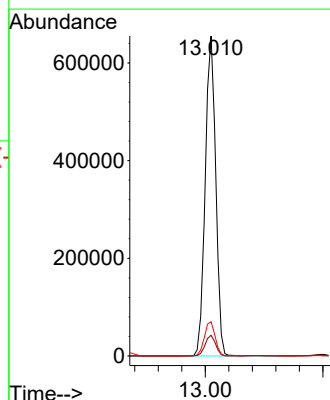
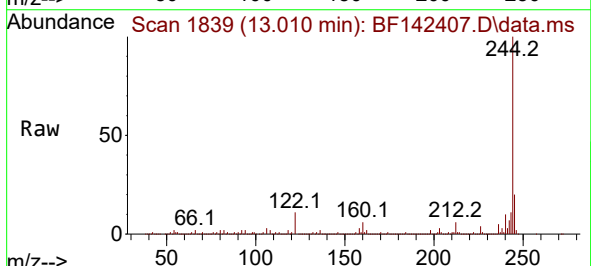
Tgt Ion:244 Resp: 815162

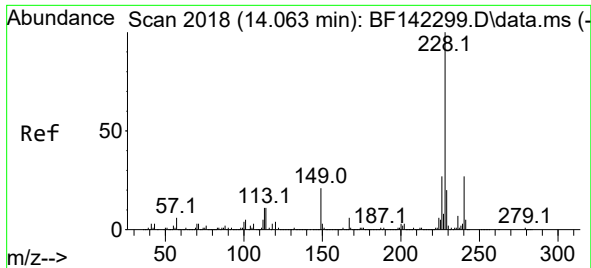
Ion Ratio Lower Upper

244 100

212 6.5 5.4 8.2

122 10.7 9.0 13.4





#81

Benzo(a)anthracene

Concen: 17.914 ng

RT: 14.057 min Scan# 20

Delta R.T. -0.006 min

Lab File: BF142407.D

Acq: 15 May 2025 22:33

Instrument :

BNA_F

ClientSampleId :

72-11991

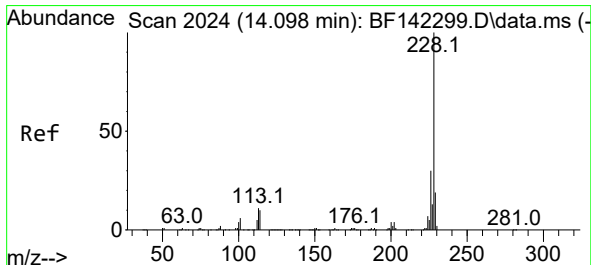
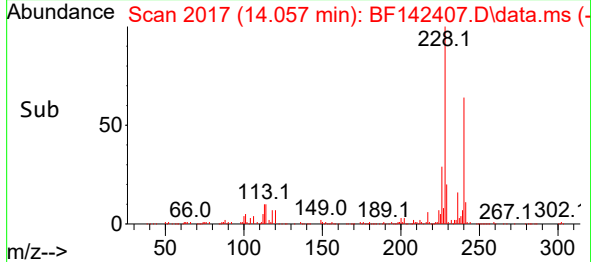
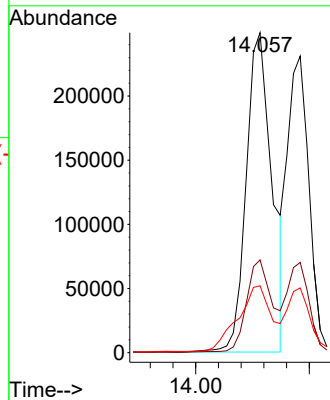
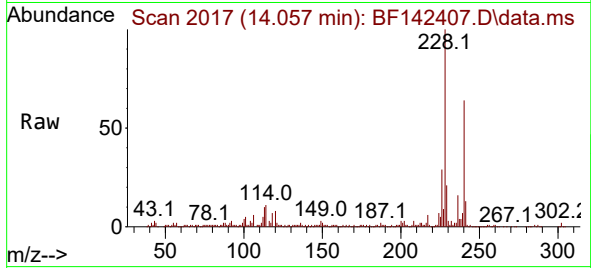
Tgt Ion:228 Resp: 392187

Ion Ratio Lower Upper

228 100

226 29.0 21.5 32.3

229 20.9 15.9 23.9



#83

Chrysene

Concen: 14.794 ng

RT: 14.092 min Scan# 2023

Delta R.T. -0.006 min

Lab File: BF142407.D

Acq: 15 May 2025 22:33

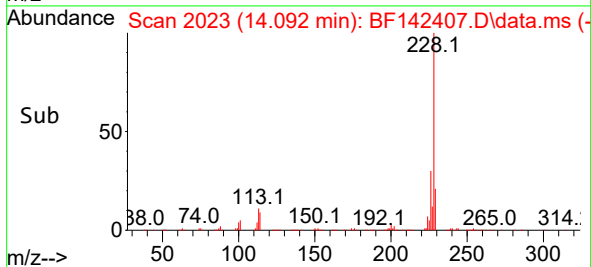
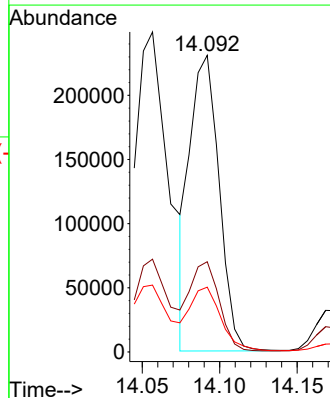
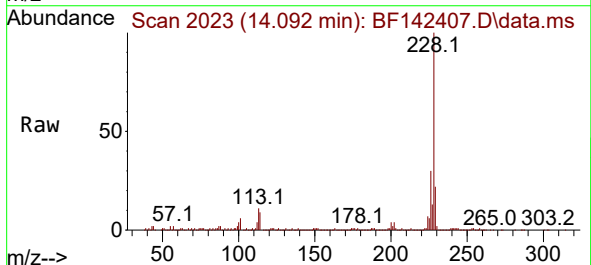
Tgt Ion:228 Resp: 301517

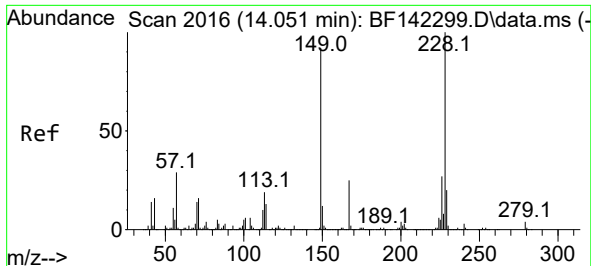
Ion Ratio Lower Upper

228 100

226 30.4 23.9 35.9

229 21.8 15.4 23.2

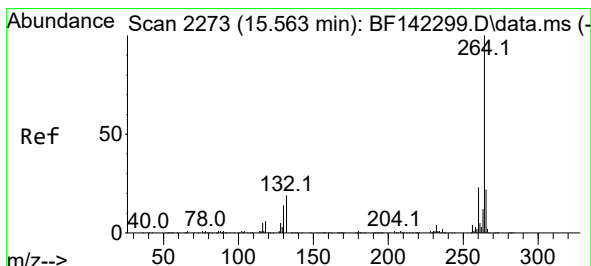
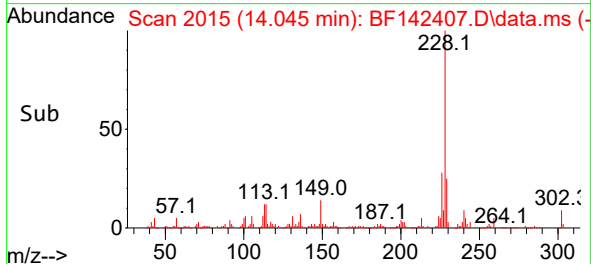
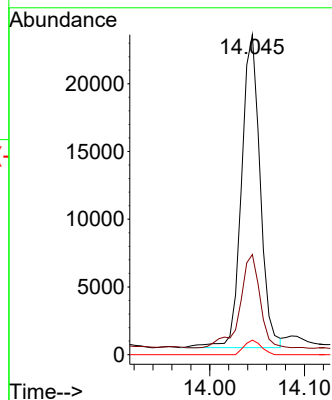
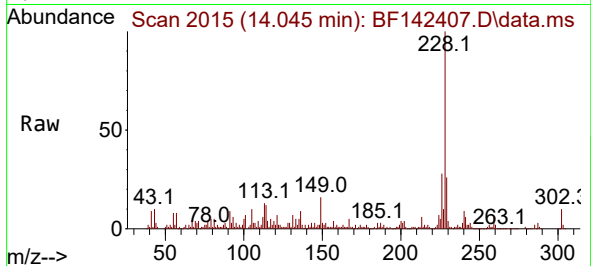




#84
Bis(2-ethylhexyl)phthalate
Concen: 6.750 ng
RT: 14.045 min Scan# 2016
Delta R.T. -0.006 min
Lab File: BF142407.D
Acq: 15 May 2025 22:33

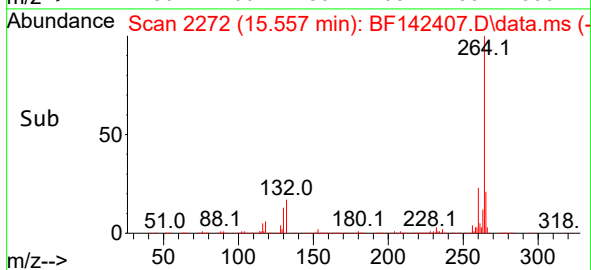
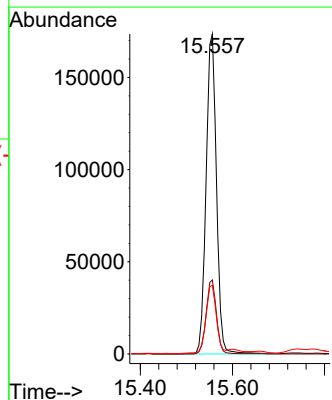
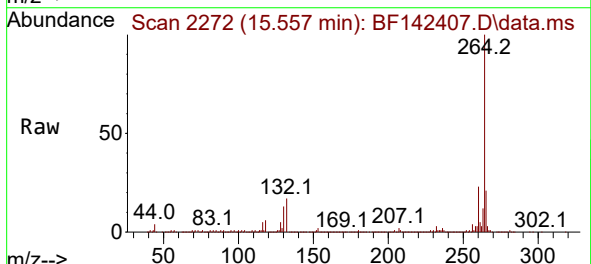
Instrument :
BNA_F
ClientSampleId :
72-11991

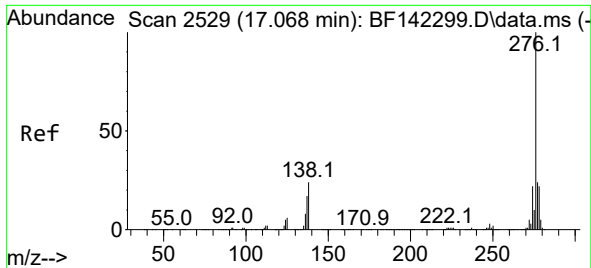
Tgt Ion:149 Resp: 31520
Ion Ratio Lower Upper
149 100
167 31.3 22.0 33.0
279 4.5 3.0 4.6



#86
Perylene-d12
Concen: 20.000 ng
RT: 15.557 min Scan# 2272
Delta R.T. -0.006 min
Lab File: BF142407.D
Acq: 15 May 2025 22:33

Tgt Ion:264 Resp: 274259
Ion Ratio Lower Upper
264 100
260 23.2 18.6 27.8
265 21.4 17.5 26.3

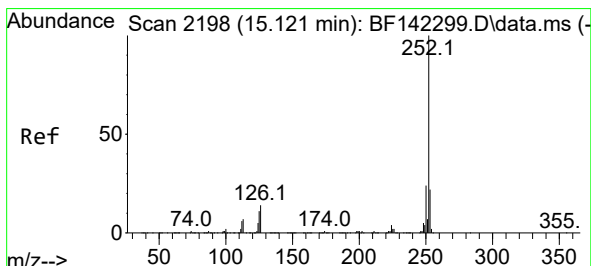
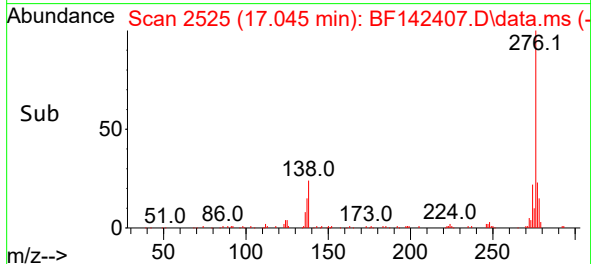
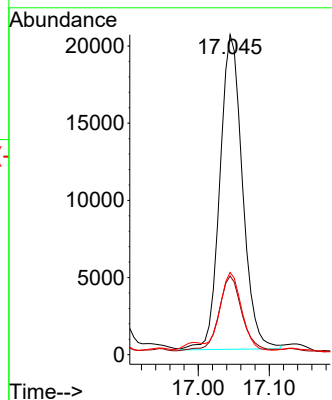
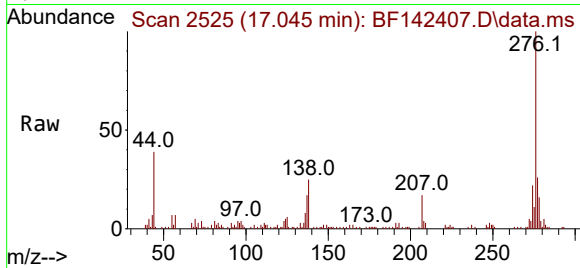




#87
 Indeno(1,2,3-cd)pyrene
 Concen: 2.355 ng
 RT: 17.045 min Scan# 21
 Delta R.T. -0.024 min
 Lab File: BF142407.D
 Acq: 15 May 2025 22:33

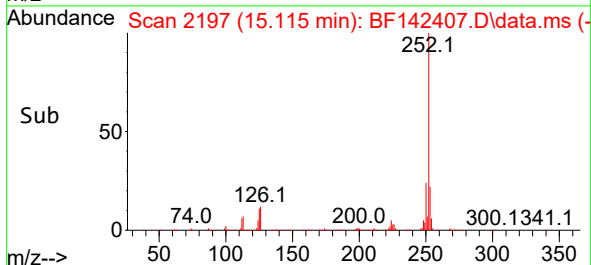
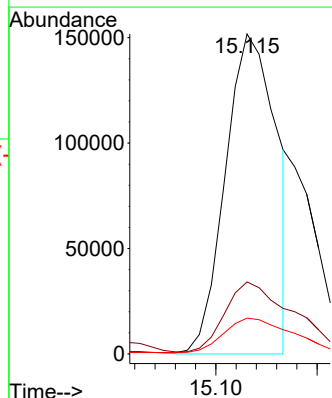
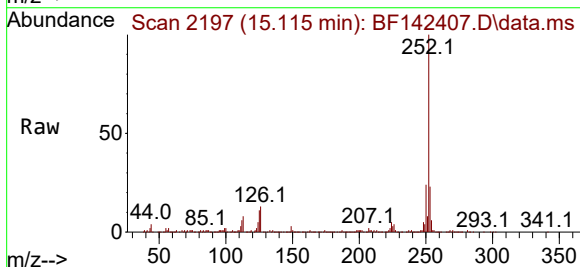
Instrument :
 BNA_F
 ClientSampleId :
 72-11991

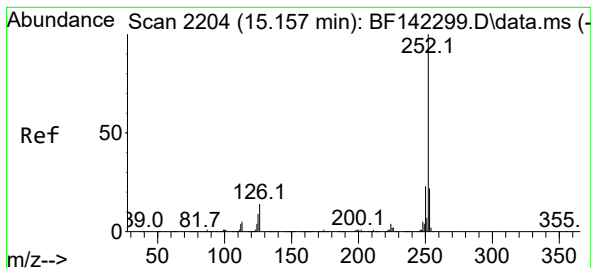
Tgt Ion:276 Resp: 44920
 Ion Ratio Lower Upper
 276 100
 138 24.8 22.0 33.0
 277 25.4 20.1 30.1



#88
 Benzo(b)fluoranthene
 Concen: 16.038 ng m
 RT: 15.115 min Scan# 2197
 Delta R.T. -0.006 min
 Lab File: BF142407.D
 Acq: 15 May 2025 22:33

Tgt Ion:252 Resp: 266406
 Ion Ratio Lower Upper
 252 100
 253 22.5 17.7 26.5
 125 11.2 8.7 13.1





#89

Benzo(k)fluoranthene

Concen: 5.904 ng m

RT: 15.133 min Scan# 21

Delta R.T. -0.024 min

Lab File: BF142407.D

Acq: 15 May 2025 22:33

Instrument :

BNA_F

ClientSampleId :

72-11991

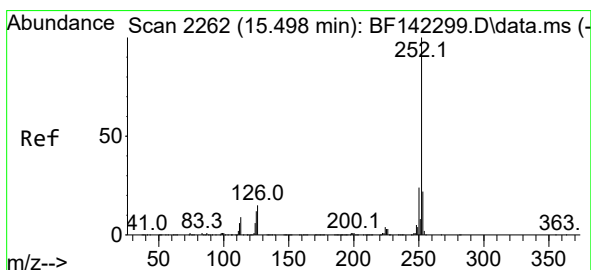
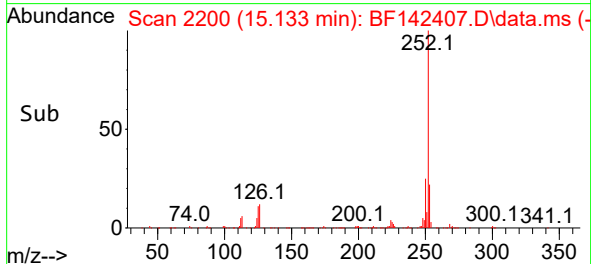
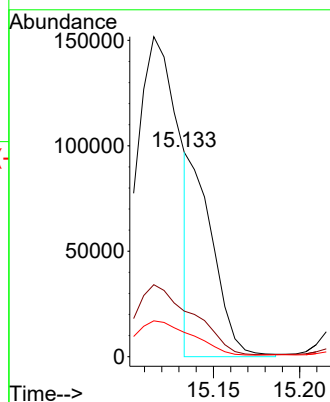
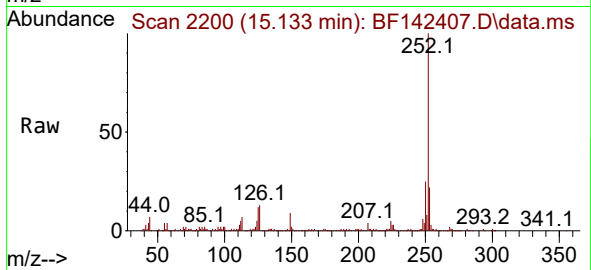
Tgt Ion:252 Resp: 89746

Ion Ratio Lower Upper

252 100

253 22.3 17.6 26.4

125 11.9 8.1 12.1



#90

Benzo(a)pyrene

Concen: 7.472 ng

RT: 15.486 min Scan# 2260

Delta R.T. -0.012 min

Lab File: BF142407.D

Acq: 15 May 2025 22:33

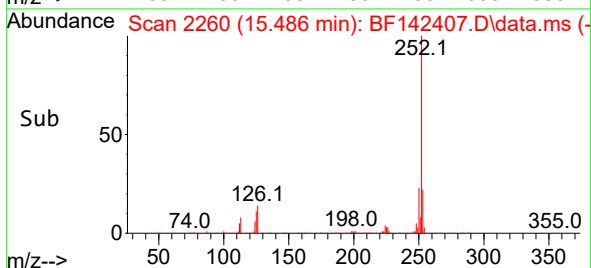
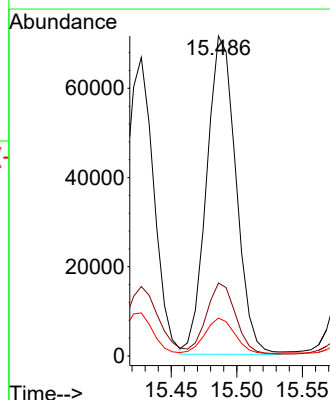
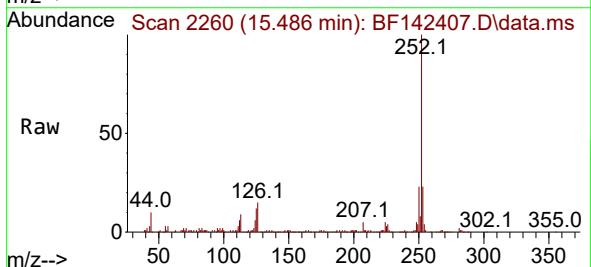
Tgt Ion:252 Resp: 111222

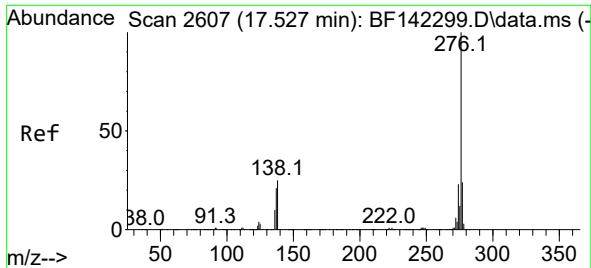
Ion Ratio Lower Upper

252 100

253 22.8 17.8 26.6

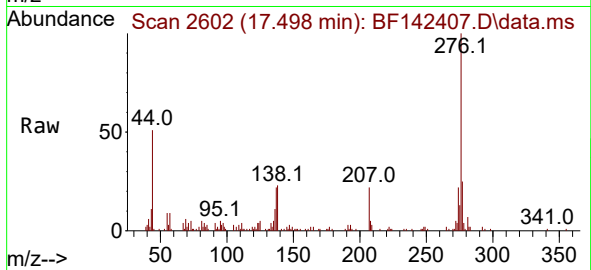
125 11.9 9.4 14.0





#92
 Benzo(g,h,i)perylene
 Concen: 2.442 ng
 RT: 17.498 min Scan# 20
 Delta R.T. -0.030 min
 Lab File: BF142407.D
 Acq: 15 May 2025 22:33

Instrument :
 BNA_F
 ClientSampleId :
 72-11991



Tgt Ion:	276	Resp:	38196
Ion Ratio	Lower	Upper	
276	100		
277	24.7	19.0	28.6
138	23.0	19.8	29.6

