

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF060425\
 Data File : BF142622.D
 Acq On : 04 Jun 2025 22:45
 Operator : RC/JU
 Sample : Q2182-01 2X
 Misc :
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 OR-03-06022025

Quant Time: Jun 05 01:28:58 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)

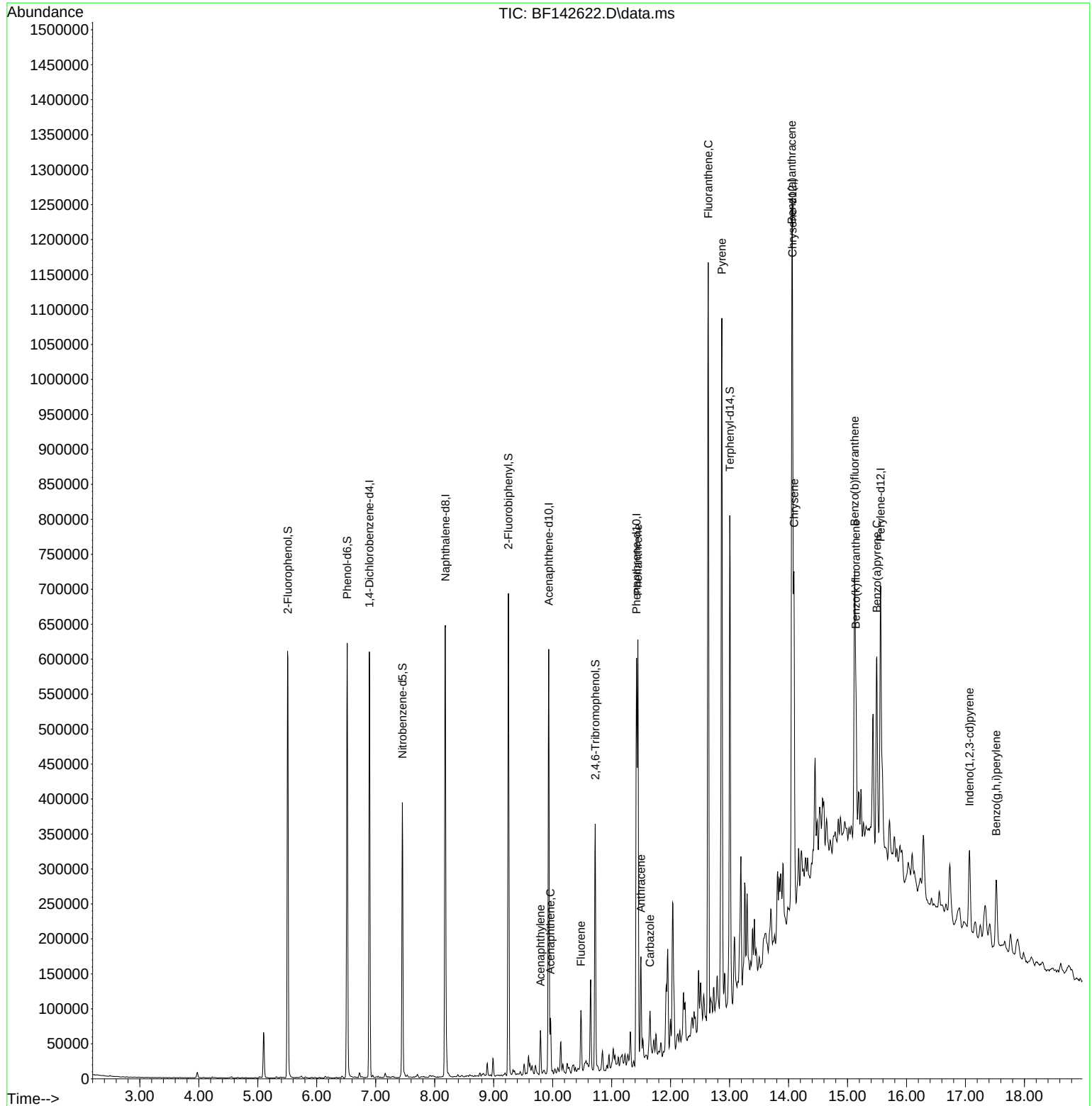
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.893	152	134658	20.000	ng	-0.01
21) Naphthalene-d8	8.181	136	431026	20.000	ng	0.00
39) Acenaphthene-d10	9.934	164	175978	20.000	ng	-0.01
64) Phenanthrene-d10	11.422	188	297515	20.000	ng	-0.01
76) Chrysene-d12	14.069	240	318437	20.000	ng	0.00
86) Perylene-d12	15.563	264	222205	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.510	112	243201	30.428	ng	0.00
7) Phenol-d6	6.516	99	279358	29.035	ng	-0.02
23) Nitrobenzene-d5	7.451	82	160663	20.325	ng	-0.02
42) 2,4,6-Tribromophenol	10.722	330	57747	29.566	ng	-0.02
45) 2-Fluorobiphenyl	9.251	172	307751	23.467	ng	-0.02
79) Terphenyl-d14	13.004	244	340999	14.634	ng	-0.01
Target Compounds						Qvalue
49) Acenaphthylene	9.792	152	36351	2.134	ng	98
52) Acenaphthene	9.963	154	24936	2.398	ng	98
58) Fluorene	10.481	166	36372	3.146	ng	99
71) Phenanthrene	11.445	178	313870	19.741	ng	99
72) Anthracene	11.498	178	94058	5.796	ng	99
73) Carbazole	11.651	167	32874	2.370	ng	98
75) Fluoranthene	12.639	202	633811	42.662	ng	99
78) Pyrene	12.869	202	584973	19.692	ng	99
81) Benzo(a)anthracene	14.057	228	317249	14.920	ng	92
83) Chrysene	14.092	228	248207	12.991	ng	97
87) Indeno(1,2,3-cd)pyrene	17.068	276	91110	5.462	ng	97
88) Benzo(b)fluoranthene	15.121	252	268338m	20.404	ng	
89) Benzo(k)fluoranthene	15.139	252	78994m	6.413	ng	
90) Benzo(a)pyrene	15.498	252	173503	13.996	ng	96
92) Benzo(g,h,i)perylene	17.521	276	88829	6.564	ng	97

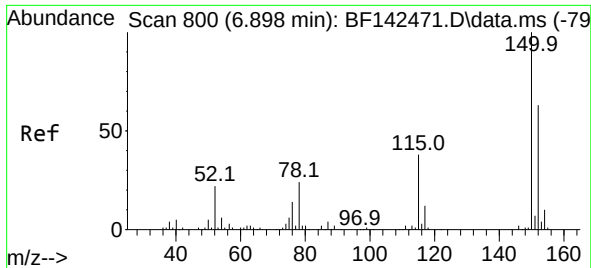
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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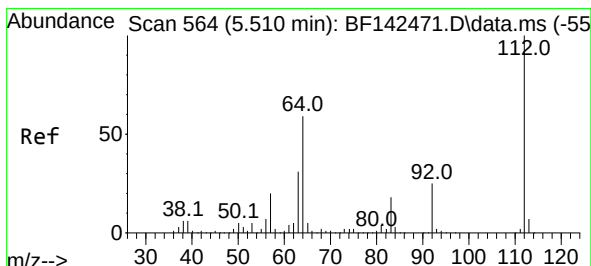
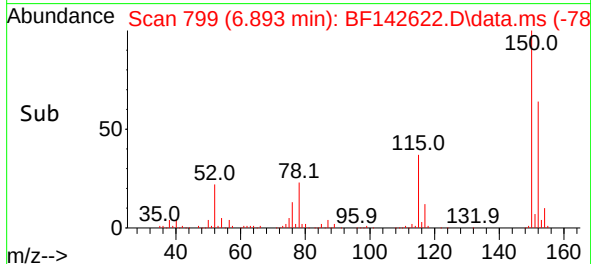
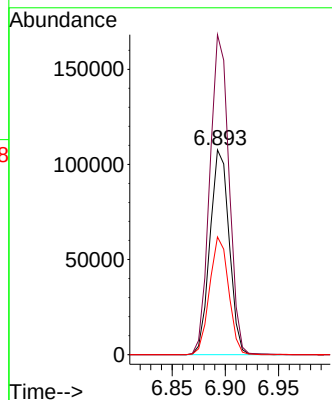
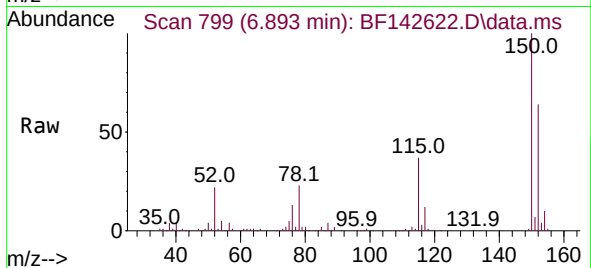




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.893 min Scan# 79
Delta R.T. -0.011 min
Lab File: BF142622.D
Acq: 04 Jun 2025 22:45

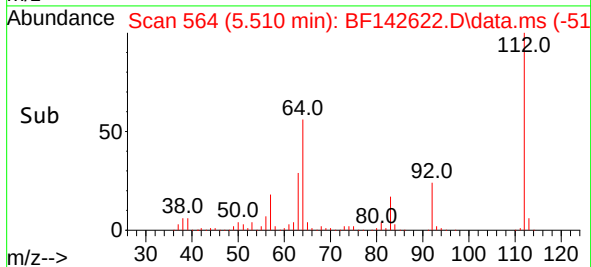
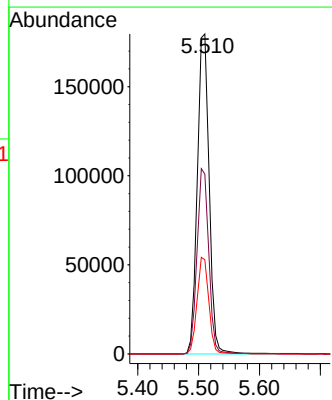
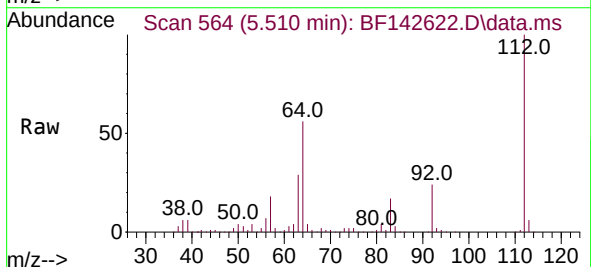
Instrument :
BNA_F
ClientSampleId :
OR-03-06022025

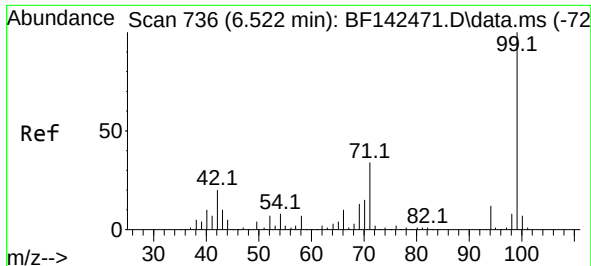
Tgt Ion:152 Resp: 134658
Ion Ratio Lower Upper
152 100
150 156.3 128.2 192.4
115 57.5 48.3 72.5



#5
2-Fluorophenol
Concen: 30.428 ng
RT: 5.510 min Scan# 564
Delta R.T. -0.006 min
Lab File: BF142622.D
Acq: 04 Jun 2025 22:45

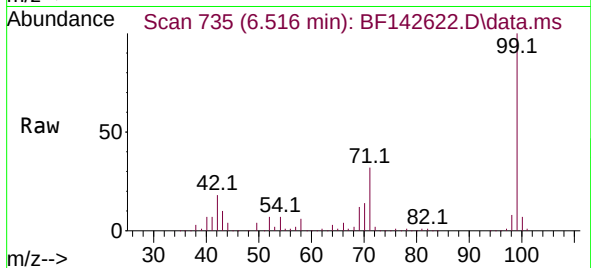
Tgt Ion:112 Resp: 243201
Ion Ratio Lower Upper
112 100
64 56.2 47.5 71.3
63 29.5 24.9 37.3





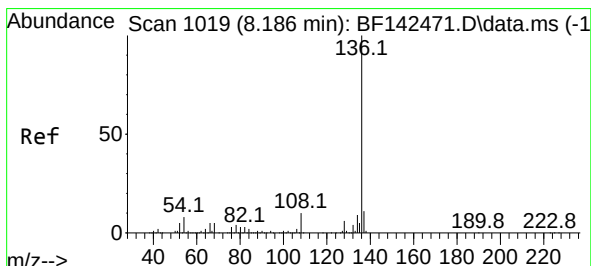
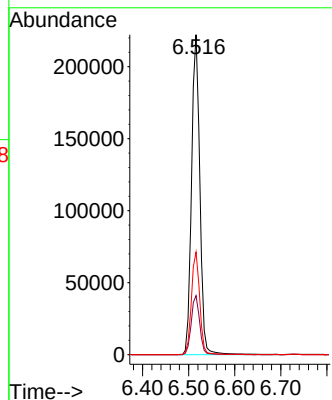
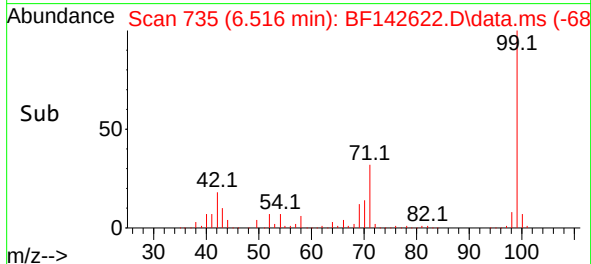
#7
Phenol-d6
Concen: 29.035 ng
RT: 6.516 min Scan# 735
Delta R.T. -0.017 min
Lab File: BF142622.D
Acq: 04 Jun 2025 22:45

Instrument :
BNA_F
ClientSampleId :
OR-03-06022025

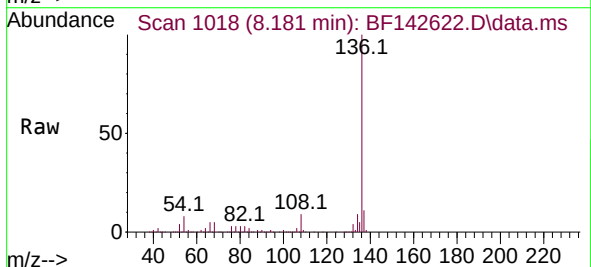


Tgt Ion: 99 Resp: 279358

Ion	Ratio	Lower	Upper
99	100		
42	18.4	16.2	24.2
71	32.0	27.3	40.9

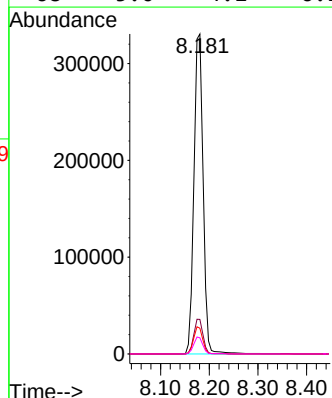
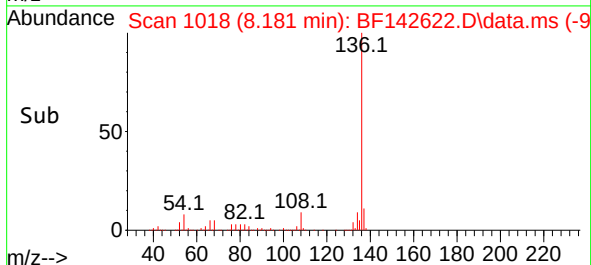


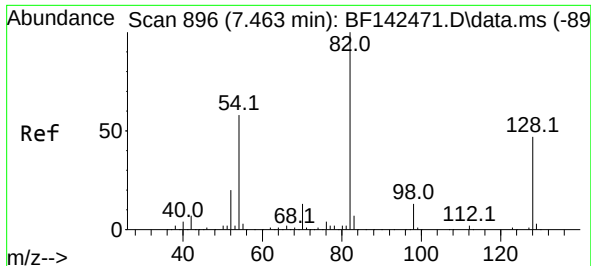
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.181 min Scan# 1018
Delta R.T. -0.006 min
Lab File: BF142622.D
Acq: 04 Jun 2025 22:45



Tgt Ion: 136 Resp: 431026

Ion	Ratio	Lower	Upper
136	100		
137	10.8	8.6	13.0
54	8.0	6.6	10.0
68	5.0	4.1	6.1





#23

Nitrobenzene-d5

Concen: 20.325 ng

RT: 7.451 min Scan# 89

Delta R.T. -0.023 min

Lab File: BF142622.D

Acq: 04 Jun 2025 22:45

Instrument :

BNA_F

ClientSampleId :

OR-03-06022025

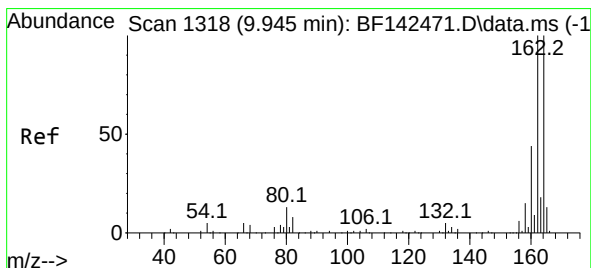
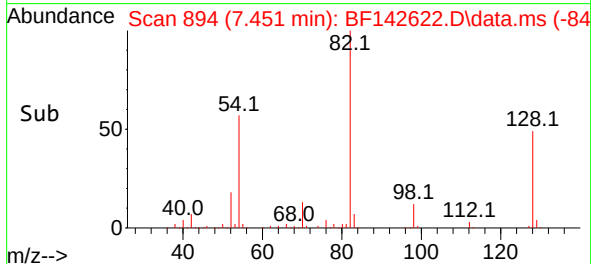
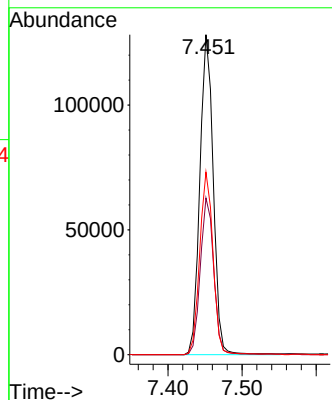
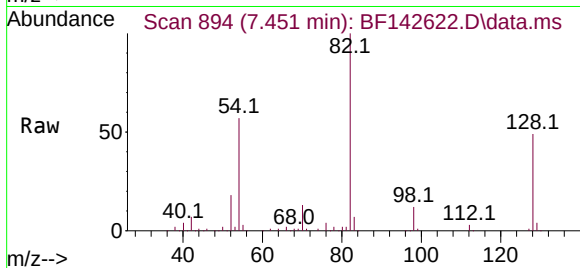
Tgt Ion: 82 Resp: 160663

Ion Ratio Lower Upper

82 100

128 48.9 37.4 56.2

54 57.0 46.6 70.0



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.934 min Scan# 1316

Delta R.T. -0.012 min

Lab File: BF142622.D

Acq: 04 Jun 2025 22:45

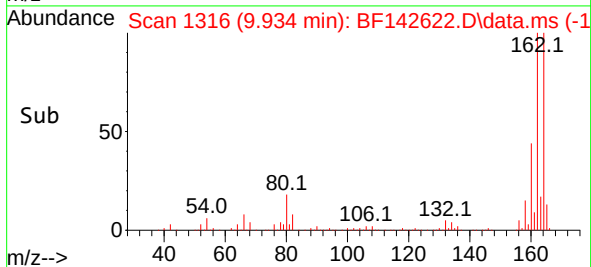
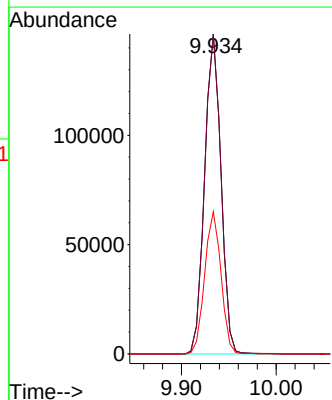
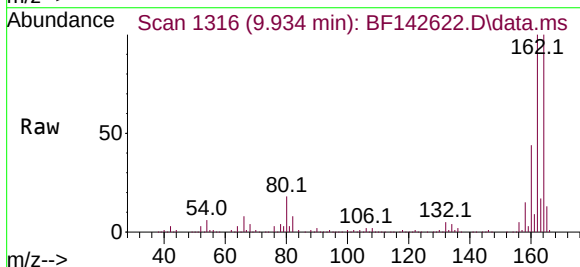
Tgt Ion:164 Resp: 175978

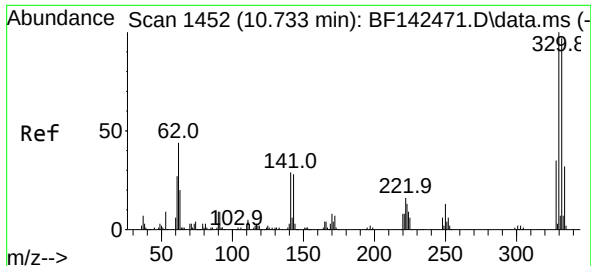
Ion Ratio Lower Upper

164 100

162 99.8 80.2 120.4

160 44.4 35.6 53.4





#42

2,4,6-Tribromophenol

Concen: 29.566 ng

RT: 10.722 min Scan# 14

Delta R.T. -0.017 min

Lab File: BF142622.D

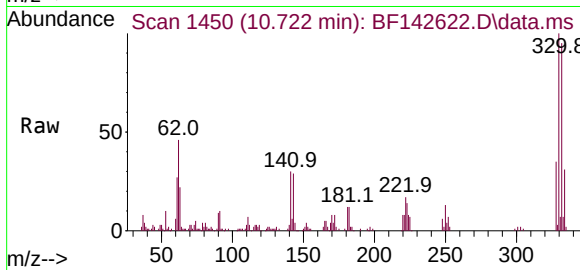
Acq: 04 Jun 2025 22:45

Instrument :

BNA_F

ClientSampleId :

OR-03-06022025



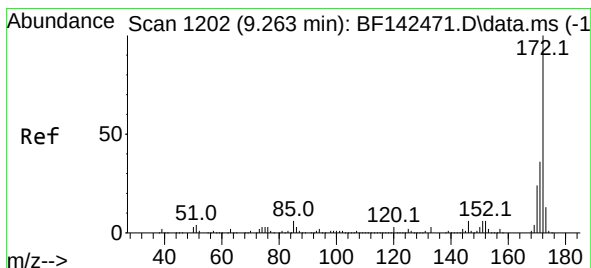
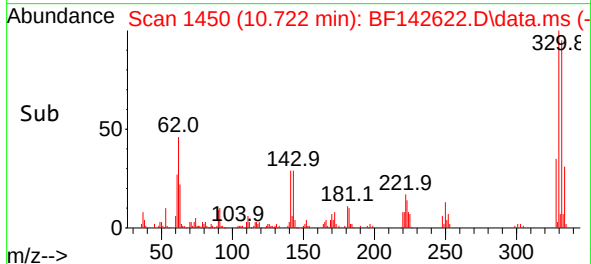
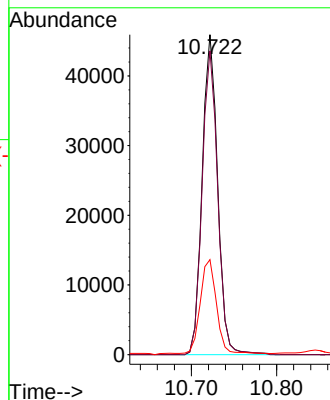
Tgt Ion:330 Resp: 57747

Ion Ratio Lower Upper

330 100

332 95.7 77.6 116.4

141 32.7 24.6 36.8



#45

2-Fluorobiphenyl

Concen: 23.467 ng

RT: 9.251 min Scan# 1200

Delta R.T. -0.017 min

Lab File: BF142622.D

Acq: 04 Jun 2025 22:45

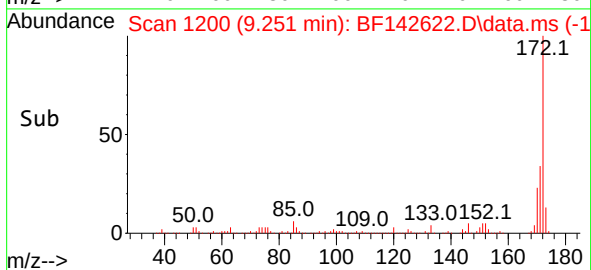
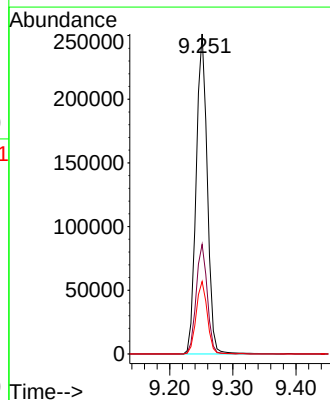
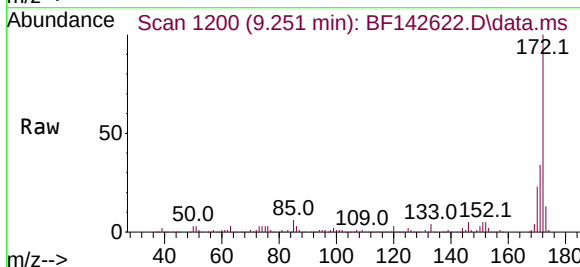
Tgt Ion:172 Resp: 307751

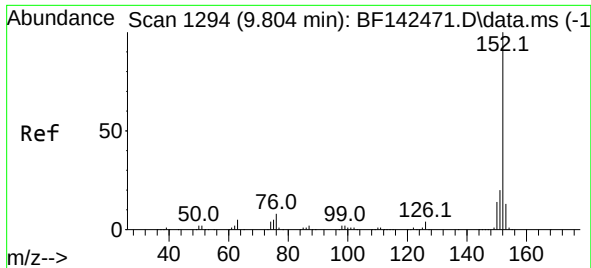
Ion Ratio Lower Upper

172 100

171 34.2 28.6 42.8

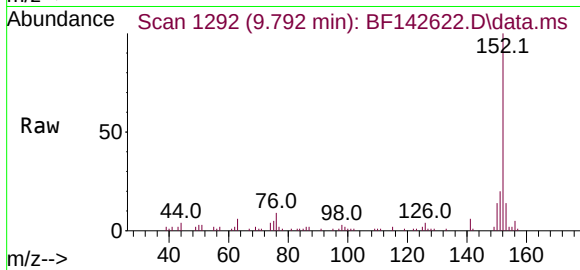
170 22.6 18.9 28.3



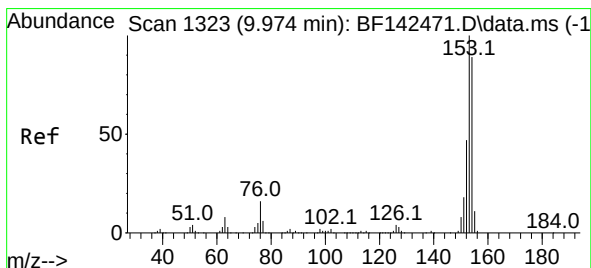
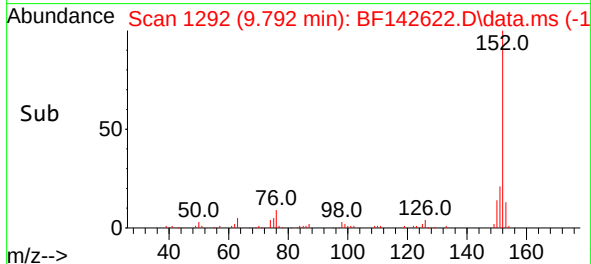
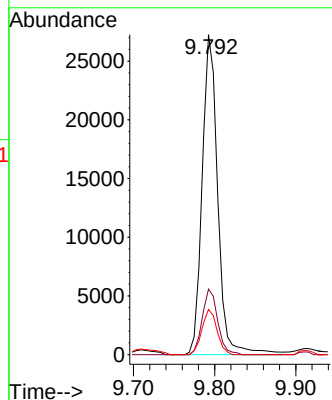


#49
Acenaphthylene
Concen: 2.134 ng
RT: 9.792 min Scan# 1292
Delta R.T. -0.017 min
Lab File: BF142622.D
Acq: 04 Jun 2025 22:45

Instrument :
BNA_F
ClientSampleId :
OR-03-06022025

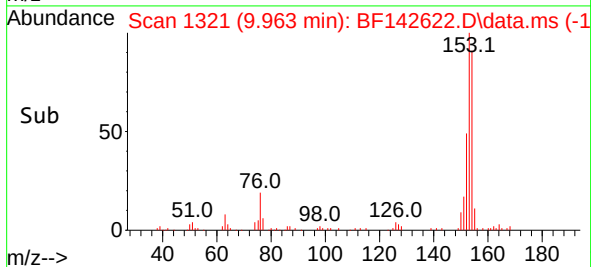
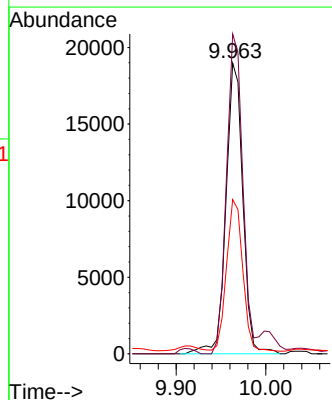
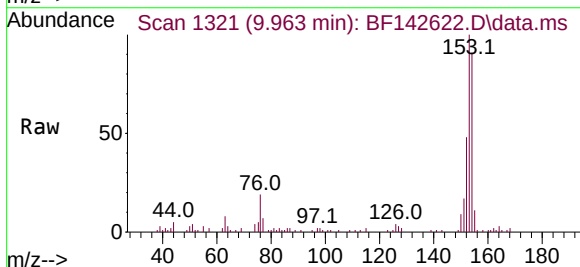


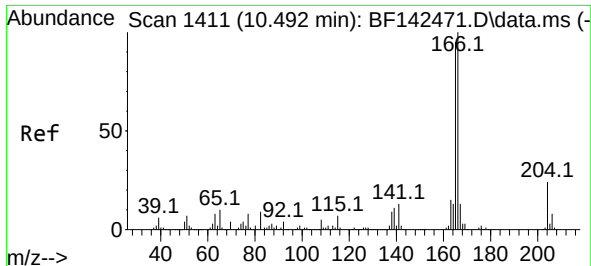
Tgt Ion:152 Resp: 36351
Ion Ratio Lower Upper
152 100
151 20.5 15.8 23.8
153 14.1 10.6 15.8



#52
Acenaphthene
Concen: 2.398 ng
RT: 9.963 min Scan# 1321
Delta R.T. -0.017 min
Lab File: BF142622.D
Acq: 04 Jun 2025 22:45

Tgt Ion:154 Resp: 24936
Ion Ratio Lower Upper
154 100
153 110.0 90.0 135.0
152 53.0 42.6 64.0

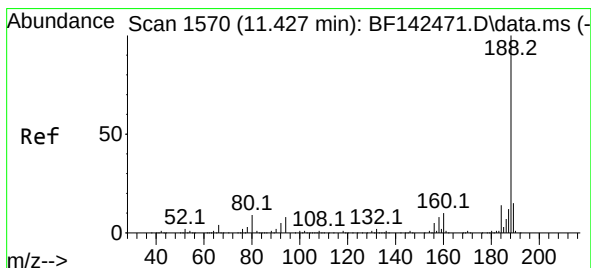
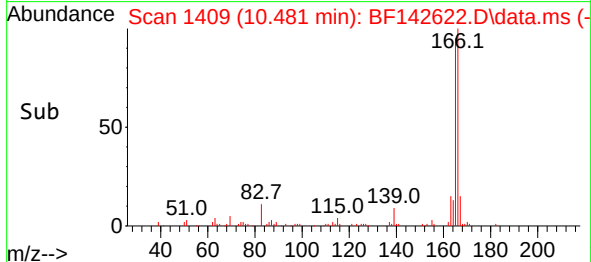
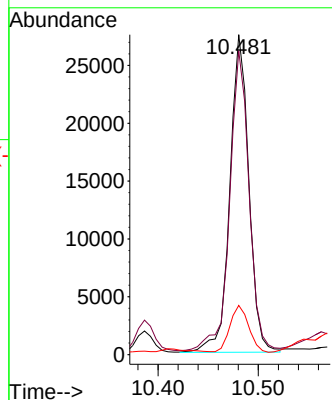
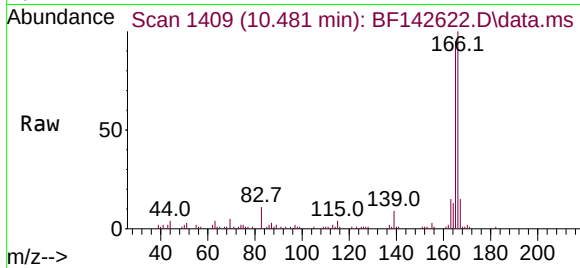




#58
Fluorene
Concen: 3.146 ng
RT: 10.481 min Scan# 1411
Delta R.T. -0.017 min
Lab File: BF142622.D
Acq: 04 Jun 2025 22:45

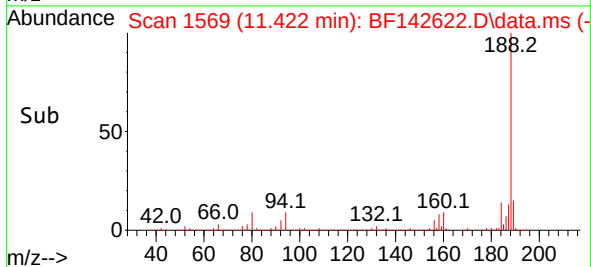
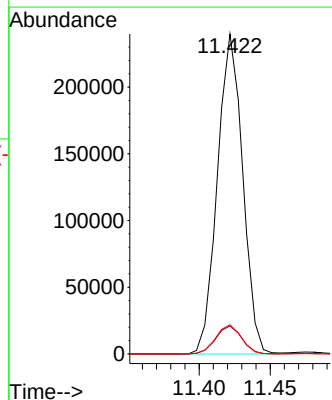
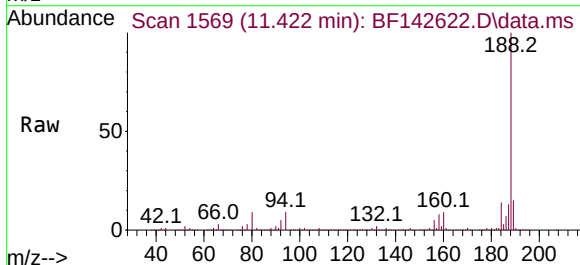
Instrument :
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OR-03-06022025

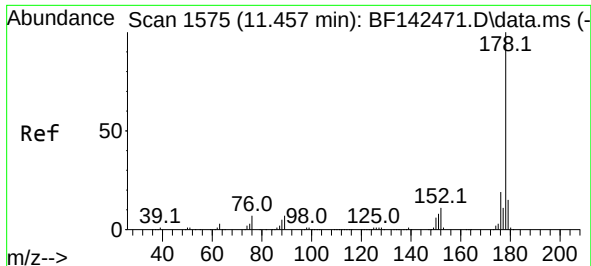
Tgt Ion:166 Resp: 36372
Ion Ratio Lower Upper
166 100
165 94.9 75.8 113.8
167 15.4 10.6 16.0



#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.422 min Scan# 1569
Delta R.T. -0.012 min
Lab File: BF142622.D
Acq: 04 Jun 2025 22:45

Tgt Ion:188 Resp: 297515
Ion Ratio Lower Upper
188 100
94 8.7 6.6 10.0
80 9.1 7.4 11.0

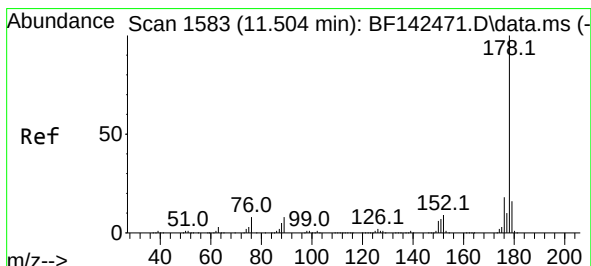
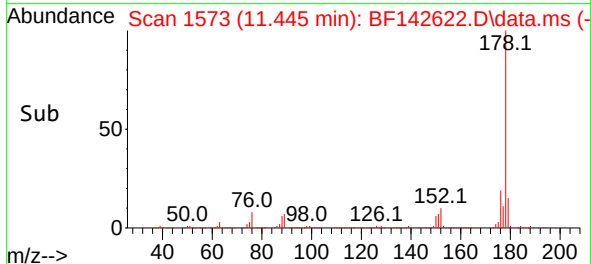
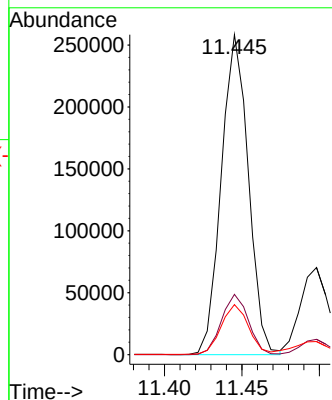
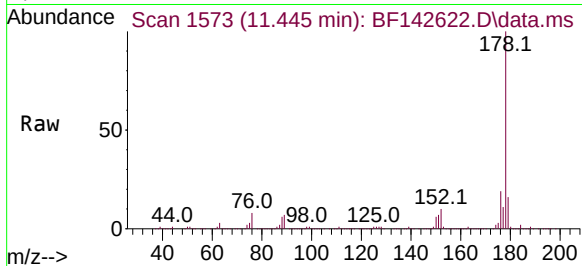




#71
Phenanthrene
Concen: 19.741 ng
RT: 11.445 min Scan# 11
Delta R.T. -0.012 min
Lab File: BF142622.D
Acq: 04 Jun 2025 22:45

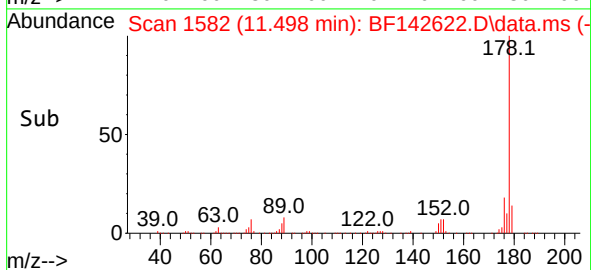
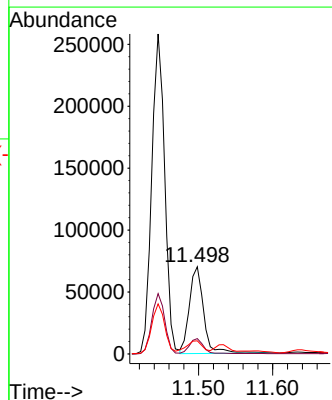
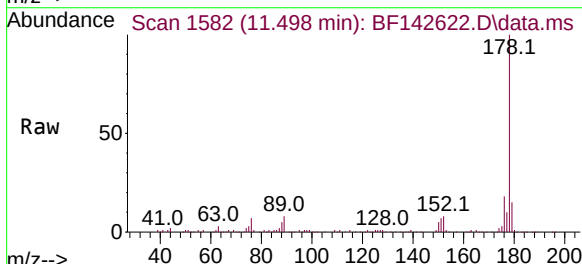
Instrument :
BNA_F
ClientSampleId :
OR-03-06022025

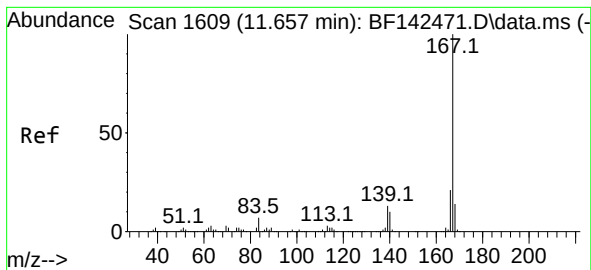
Tgt Ion:178 Resp: 313870
Ion Ratio Lower Upper
178 100
176 18.8 15.4 23.0
179 15.6 12.3 18.5



#72
Anthracene
Concen: 5.796 ng
RT: 11.498 min Scan# 1582
Delta R.T. -0.012 min
Lab File: BF142622.D
Acq: 04 Jun 2025 22:45

Tgt Ion:178 Resp: 94058
Ion Ratio Lower Upper
178 100
176 17.6 14.6 21.8
179 14.9 12.4 18.6





#73

Carbazole

Concen: 2.370 ng

RT: 11.651 min Scan# 1608

Delta R.T. -0.012 min

Lab File: BF142622.D

Acq: 04 Jun 2025 22:45

Instrument :

BNA_F

ClientSampleId :

OR-03-06022025

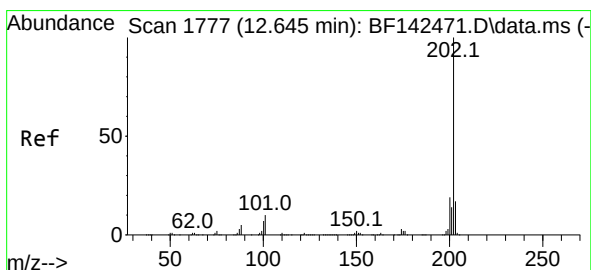
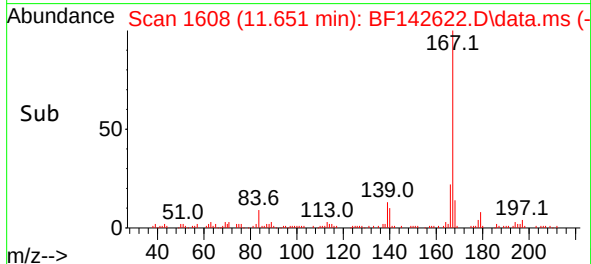
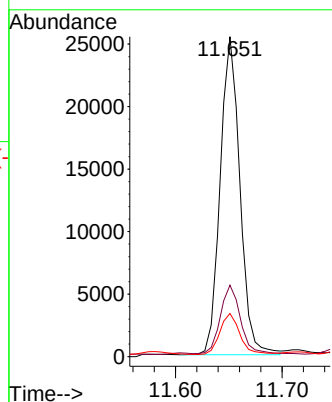
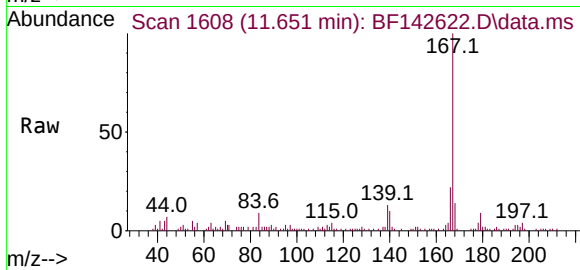
Tgt Ion:167 Resp: 32874

Ion Ratio Lower Upper

167 100

166 22.3 16.9 25.3

139 13.5 10.2 15.4



#75

Fluoranthene

Concen: 42.662 ng

RT: 12.639 min Scan# 1776

Delta R.T. -0.006 min

Lab File: BF142622.D

Acq: 04 Jun 2025 22:45

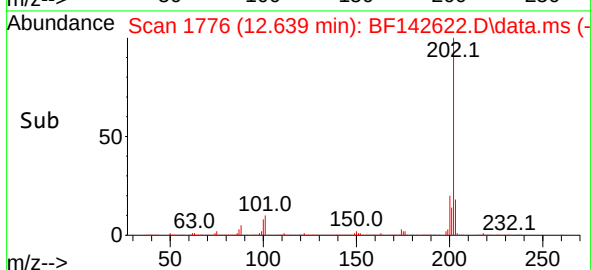
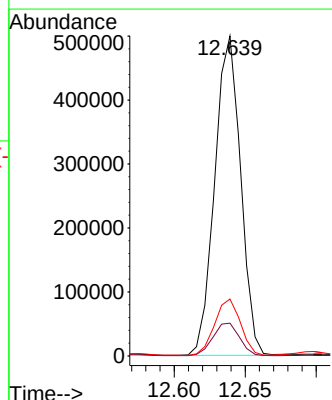
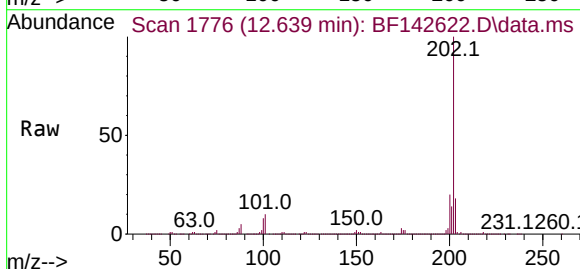
Tgt Ion:202 Resp: 633811

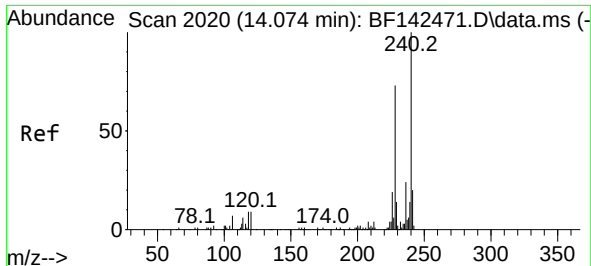
Ion Ratio Lower Upper

202 100

101 10.2 0.0 29.6

203 17.8 0.0 37.2

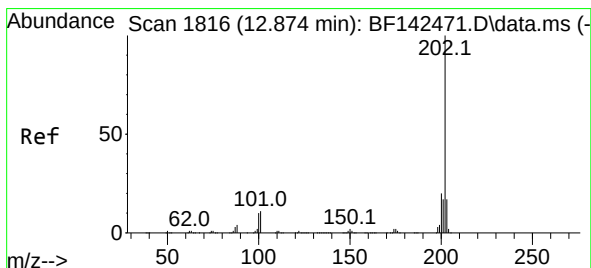
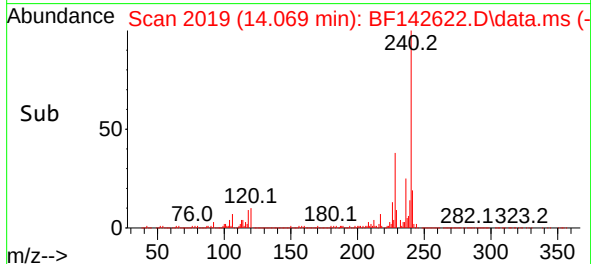
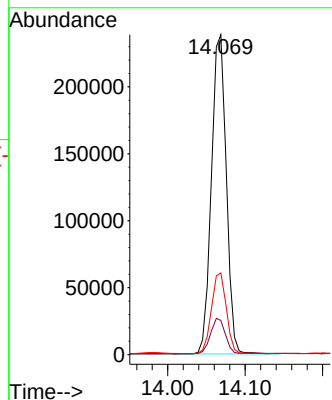
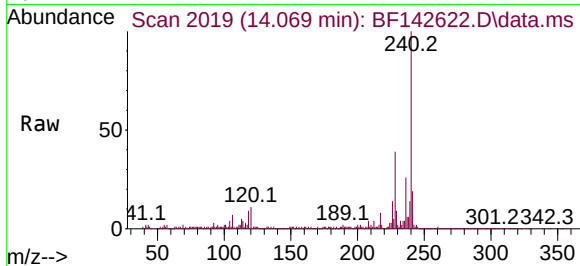




#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.069 min Scan# 20
Delta R.T. -0.006 min
Lab File: BF142622.D
Acq: 04 Jun 2025 22:45

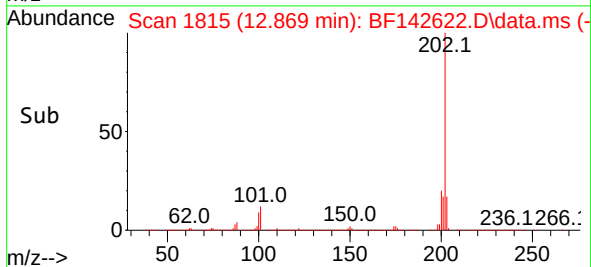
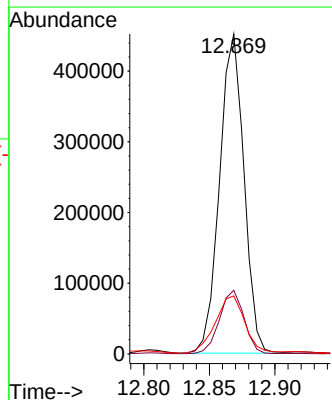
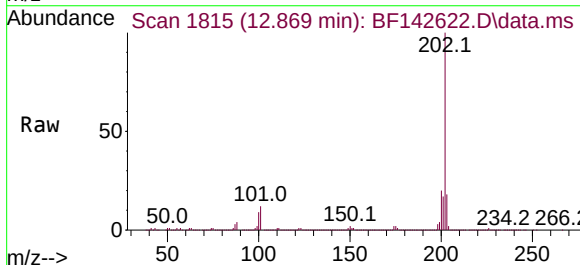
Instrument :
BNA_F
ClientSampleId :
OR-03-06022025

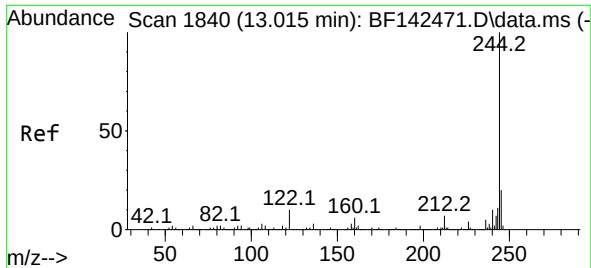
Tgt Ion:240 Resp: 318437
Ion Ratio Lower Upper
240 100
120 10.7 7.5 11.3
236 25.5 19.6 29.4



#78
Pyrene
Concen: 19.692 ng
RT: 12.869 min Scan# 1815
Delta R.T. -0.006 min
Lab File: BF142622.D
Acq: 04 Jun 2025 22:45

Tgt Ion:202 Resp: 584973
Ion Ratio Lower Upper
202 100
200 19.9 16.1 24.1
203 18.1 13.9 20.9

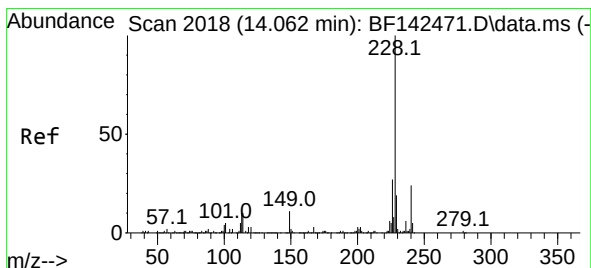
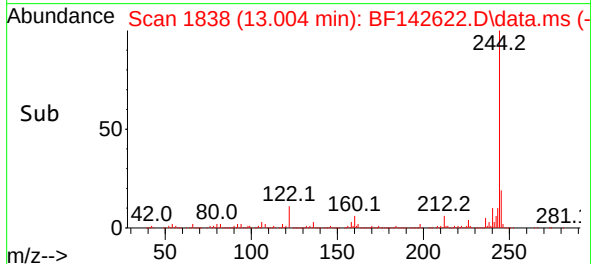
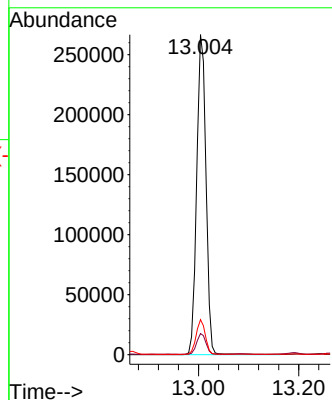
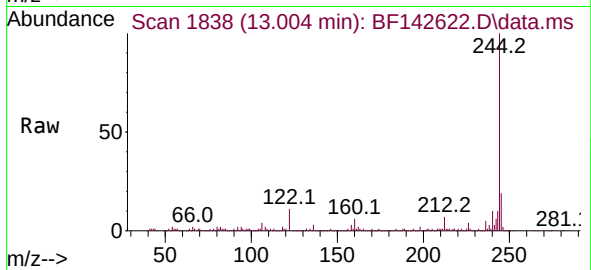




#79
 Terphenyl-d14
 Concen: 14.634 ng
 RT: 13.004 min Scan# 1840
 Delta R.T. -0.012 min
 Lab File: BF142622.D
 Acq: 04 Jun 2025 22:45

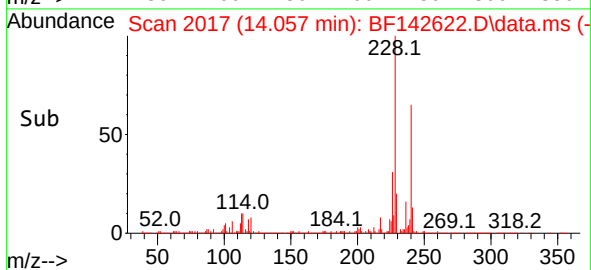
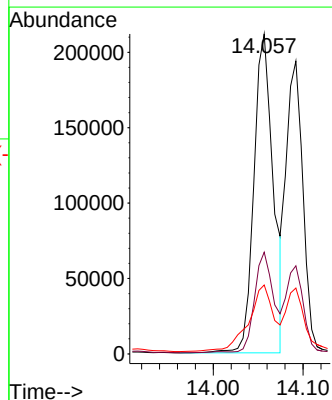
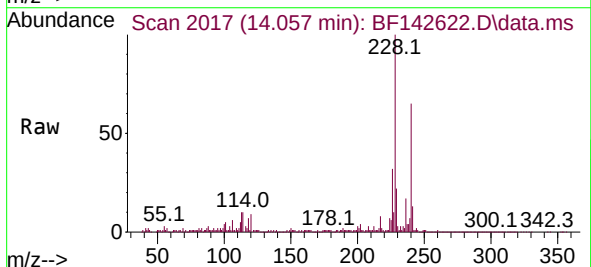
Instrument :
 BNA_F
 ClientSampleId :
 OR-03-06022025

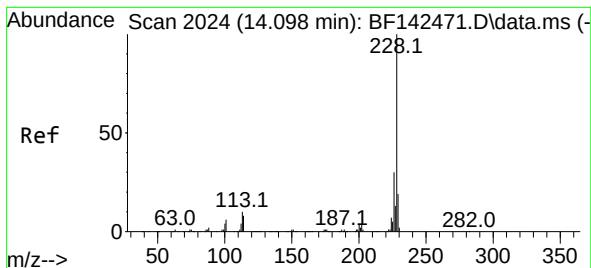
Tgt Ion:244 Resp: 340999
 Ion Ratio Lower Upper
 244 100
 212 6.6 5.3 7.9
 122 10.9 8.2 12.2



#81
 Benzo(a)anthracene
 Concen: 14.920 ng
 RT: 14.057 min Scan# 2017
 Delta R.T. -0.006 min
 Lab File: BF142622.D
 Acq: 04 Jun 2025 22:45

Tgt Ion:228 Resp: 317249
 Ion Ratio Lower Upper
 228 100
 226 31.8 21.2 31.8
 229 21.5 15.5 23.3





#83

Chrysene

Concen: 12.991 ng

RT: 14.092 min Scan# 20

Delta R.T. -0.012 min

Lab File: BF142622.D

Acq: 04 Jun 2025 22:45

Instrument :

BNA_F

ClientSampleId :

OR-03-06022025

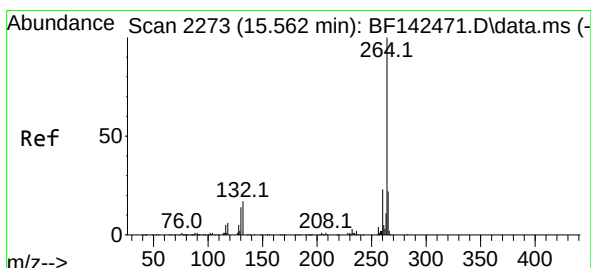
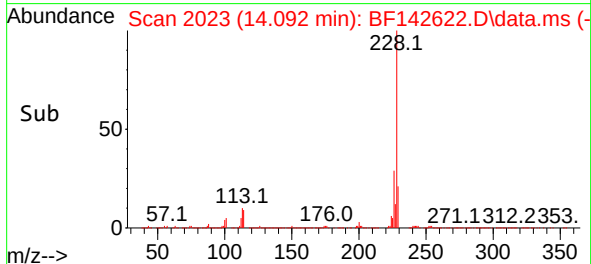
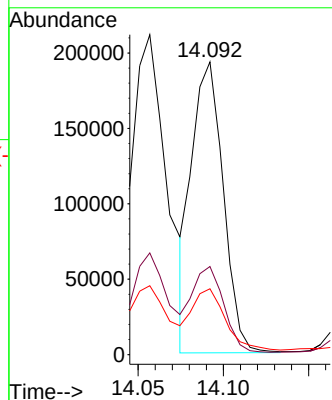
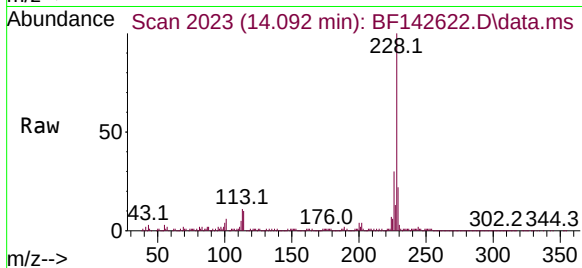
Tgt Ion:228 Resp: 248207

Ion Ratio Lower Upper

228 100

226 30.1 23.8 35.6

229 22.5 15.4 23.2



#86

Perylene-d12

Concen: 20.000 ng

RT: 15.563 min Scan# 2273

Delta R.T. -0.006 min

Lab File: BF142622.D

Acq: 04 Jun 2025 22:45

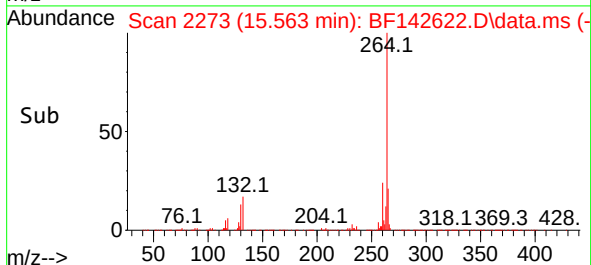
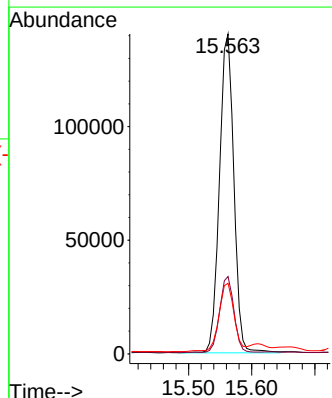
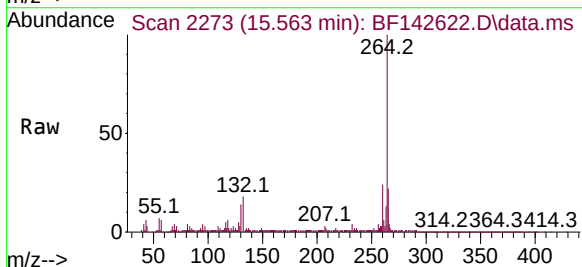
Tgt Ion:264 Resp: 222205

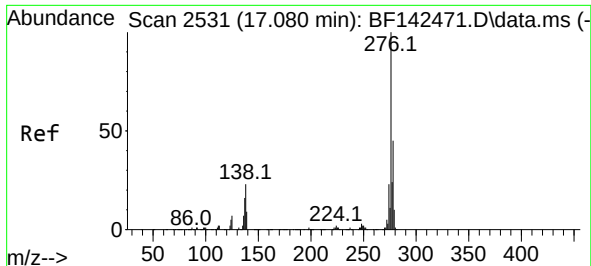
Ion Ratio Lower Upper

264 100

260 24.2 18.6 28.0

265 22.1 17.7 26.5

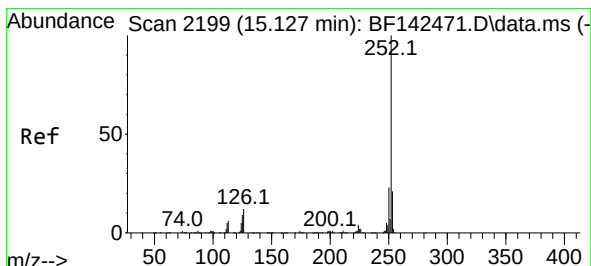
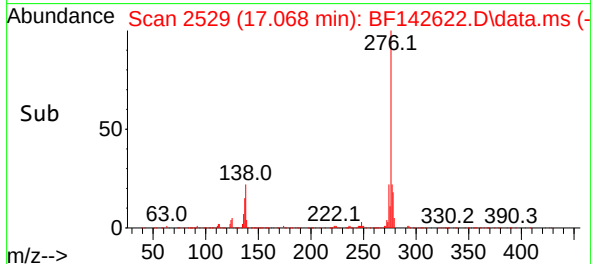
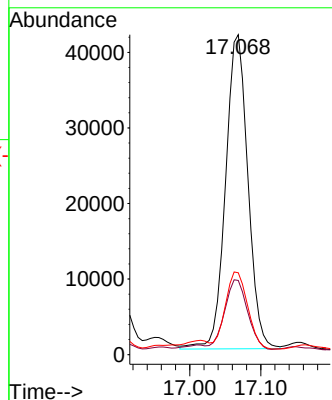
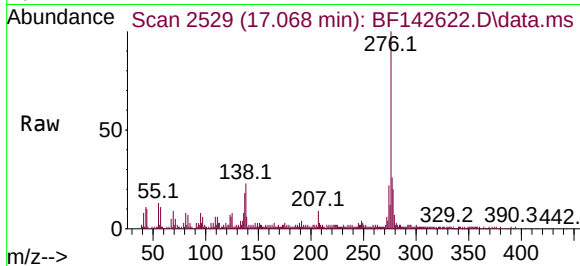




#87
Indeno(1,2,3-cd)pyrene
Concen: 5.462 ng
RT: 17.068 min Scan# 2110
Delta R.T. -0.023 min
Lab File: BF142622.D
Acq: 04 Jun 2025 22:45

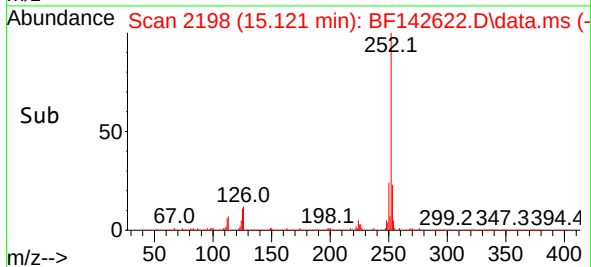
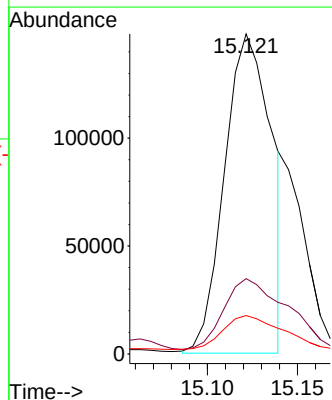
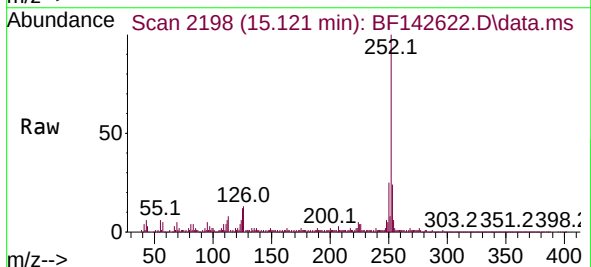
Instrument :
BNA_F
ClientSampleId :
OR-03-06022025

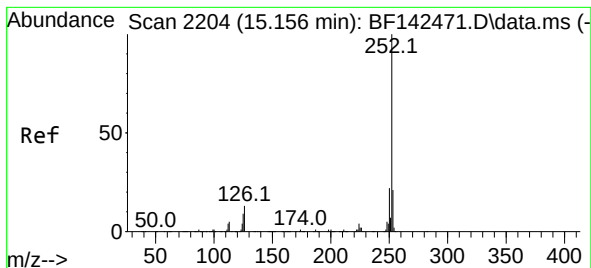
Tgt Ion:276 Resp: 91110
Ion Ratio Lower Upper
276 100
138 22.8 19.9 29.9
277 24.5 20.2 30.2



#88
Benzo(b)fluoranthene
Concen: 20.404 ng m
RT: 15.121 min Scan# 2198
Delta R.T. -0.006 min
Lab File: BF142622.D
Acq: 04 Jun 2025 22:45

Tgt Ion:252 Resp: 268338
Ion Ratio Lower Upper
252 100
253 23.5 17.0 25.4
125 12.0 7.4 11.0#





#89

Benzo(k)fluoranthene

Concen: 6.413 ng m

RT: 15.139 min Scan# 21

Delta R.T. -0.023 min

Lab File: BF142622.D

Acq: 04 Jun 2025 22:45

Instrument :

BNA_F

ClientSampleId :

OR-03-06022025

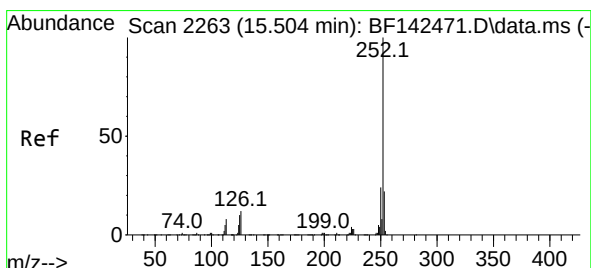
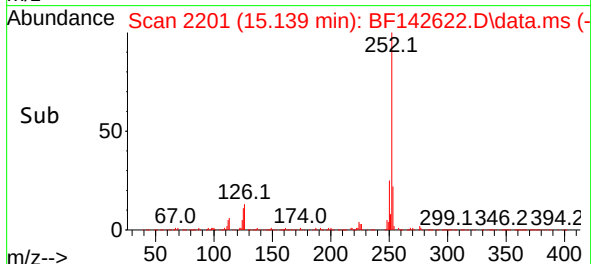
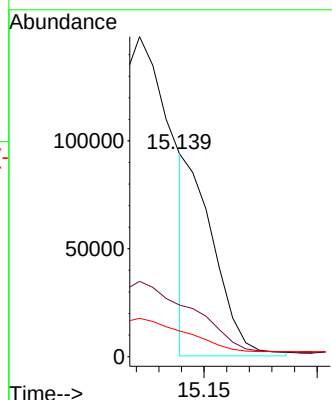
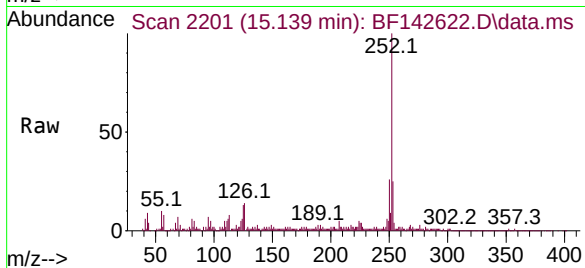
Tgt Ion:252 Resp: 78994

Ion Ratio Lower Upper

252 100

253 25.4 17.0 25.4

125 12.7 7.3 10.9#



#90

Benzo(a)pyrene

Concen: 13.996 ng

RT: 15.498 min Scan# 2262

Delta R.T. -0.012 min

Lab File: BF142622.D

Acq: 04 Jun 2025 22:45

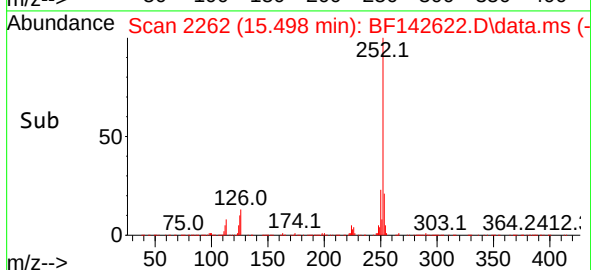
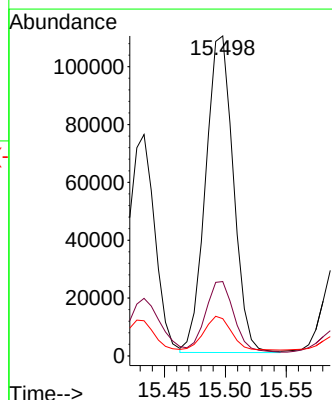
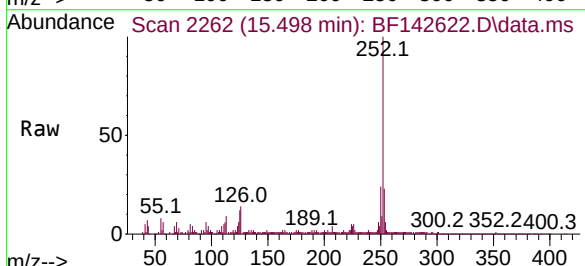
Tgt Ion:252 Resp: 173503

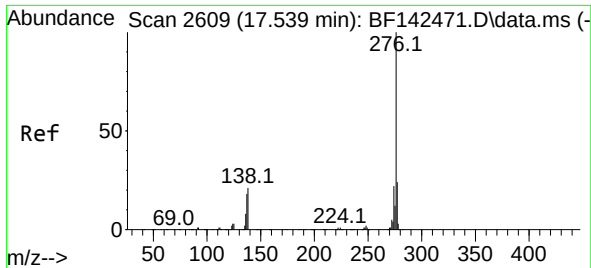
Ion Ratio Lower Upper

252 100

253 23.2 17.4 26.0

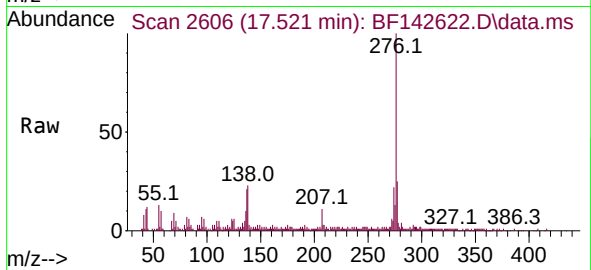
125 11.6 7.9 11.9





#92
Benzo(g,h,i)perylene
Concen: 6.564 ng
RT: 17.521 min Scan# 20
Delta R.T. -0.035 min
Lab File: BF142622.D
Acq: 04 Jun 2025 22:45

Instrument :
BNA_F
ClientSampleId :
OR-03-06022025



Tgt Ion:	276	Resp:	88829
Ion	Ratio	Lower	Upper
276	100		
277	24.6	19.2	28.8
138	23.3	16.8	25.2

