

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052225\
 Data File : BF142524.D
 Acq On : 22 May 2025 21:51
 Operator : RC/JU
 Sample : Q2104-01
 Misc :
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 TR-06-052125

Quant Time: May 23 01:24:46 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)

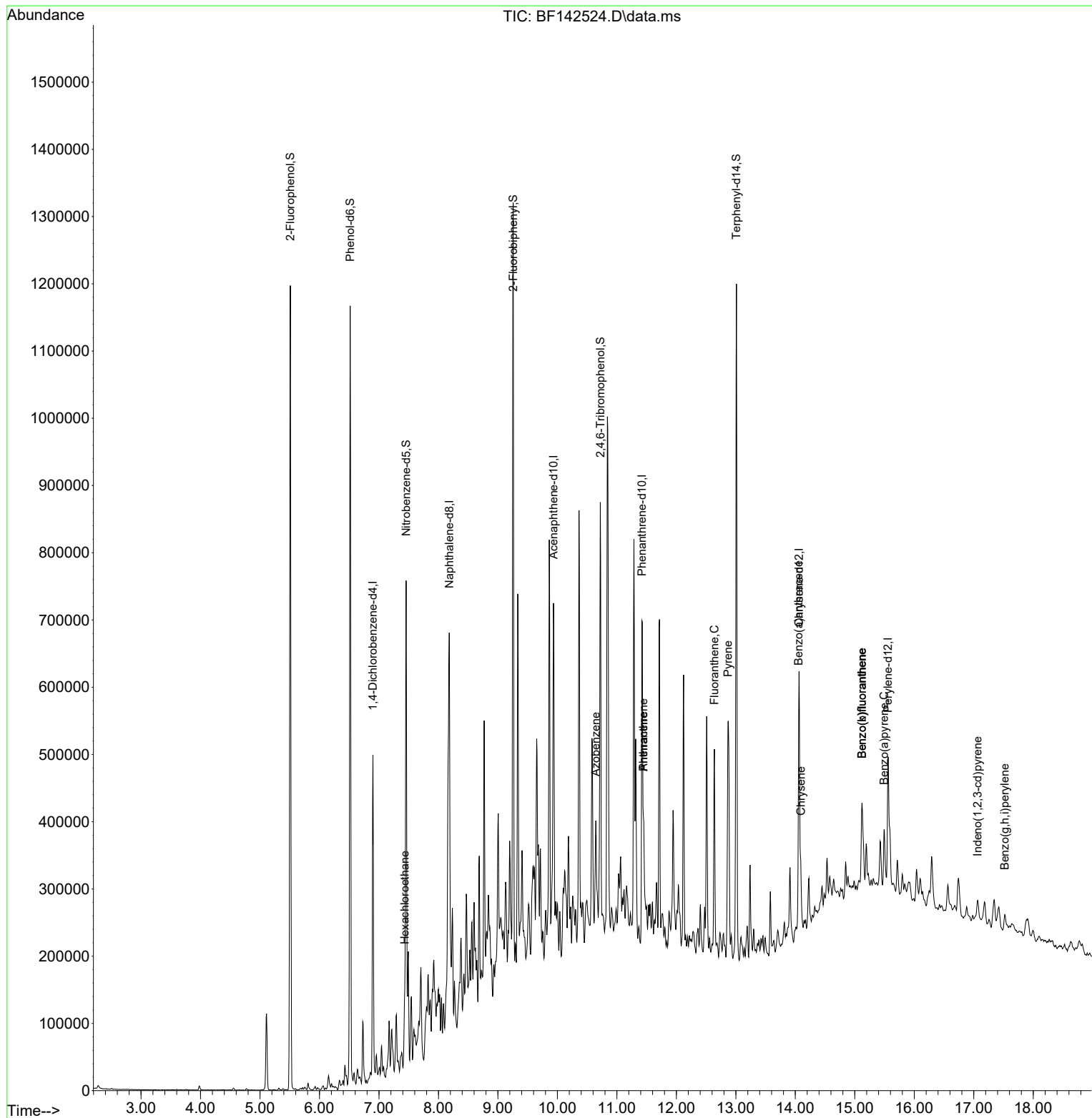
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.898	152	97973	20.000	ng	0.00
21) Naphthalene-d8	8.181	136	319894	20.000	ng	0.00
39) Acenaphthene-d10	9.934	164	142138	20.000	ng	-0.01
64) Phenanthrene-d10	11.422	188	251418	20.000	ng	-0.01
76) Chrysene-d12	14.063	240	150720	20.000	ng	#-0.01
86) Perylene-d12	15.557	264	134091	20.000	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.510	112	455384	78.308	ng	0.00
7) Phenol-d6	6.516	99	525359	75.049	ng	-0.02
23) Nitrobenzene-d5	7.457	82	290192	49.466	ng	-0.02
42) 2,4,6-Tribromophenol	10.722	330	114465	72.559	ng	-0.02
45) 2-Fluorobiphenyl	9.257	172	517753	48.879	ng	-0.01
79) Terphenyl-d14	13.010	244	483142	43.805	ng	0.00
Target Compounds						
						Qvalue
18) Hexachloroethane	7.434	117	5126	2.062	ng	# 1
63) Azobenzene	10.645	77	35058	4.261	ng	# 1
71) Phenanthrene	11.445	178	83808	6.237	ng	98
72) Anthracene	11.445	178	83808	6.112	ng	97
75) Fluoranthene	12.639	202	173931	13.854	ng	99
78) Pyrene	12.869	202	173121	12.313	ng	99
81) Benzo(a)anthracene	14.057	228	75259	7.478	ng	# 91
83) Chrysene	14.092	228	56384	6.235	ng	# 93
87) Indeno(1,2,3-cd)pyrene	17.063	276	26326	2.615	ng	# 90
88) Benzo(b)fluoranthene	15.121	252	104645	13.186	ng	# 90
89) Benzo(k)fluoranthene	15.121	252	104645	14.078	ng	# 90
90) Benzo(a)pyrene	15.492	252	55338	7.398	ng	# 89
92) Benzo(g,h,i)perylene	17.521	276	26016	3.186	ng	# 90

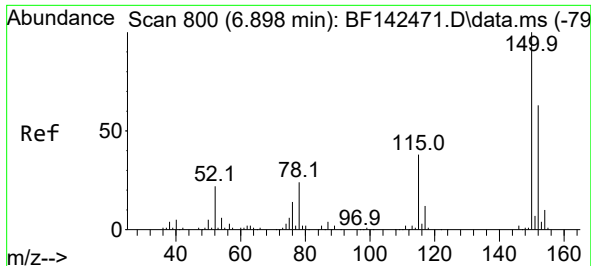
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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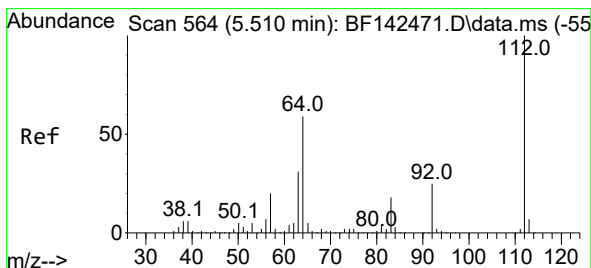
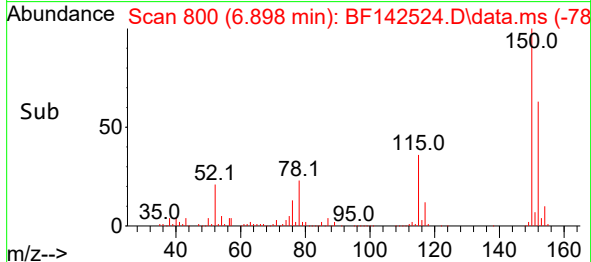
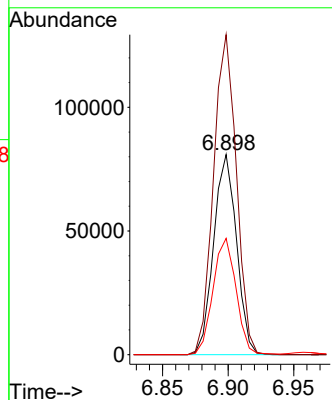
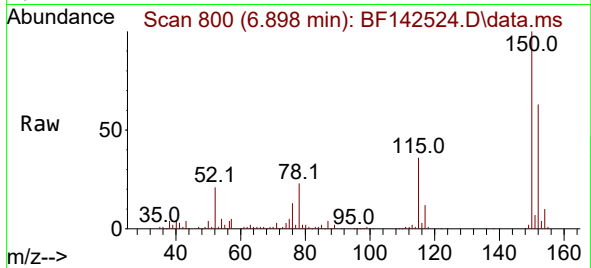




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.898 min Scan# 800
Delta R.T. -0.006 min
Lab File: BF142524.D
Acq: 22 May 2025 21:51

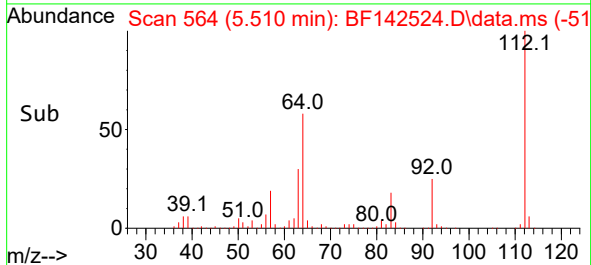
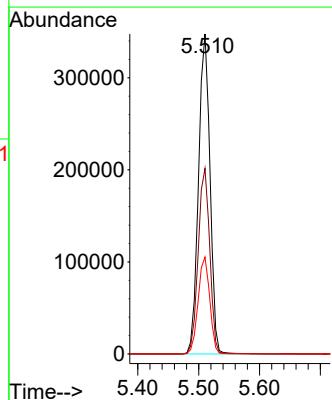
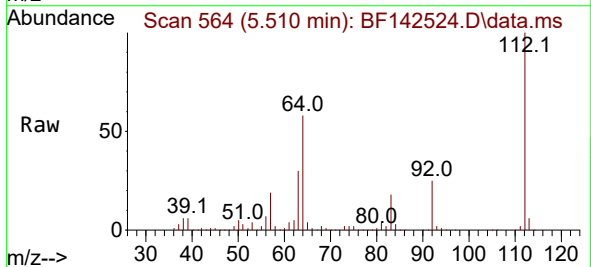
Instrument :
BNA_F
ClientSampleId :
TR-06-052125

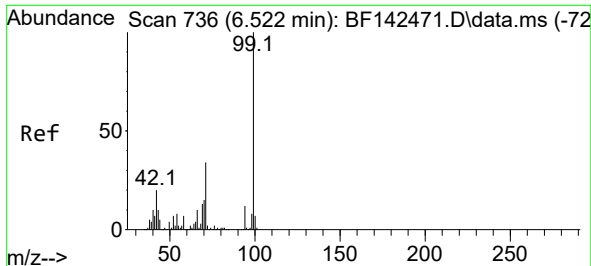
Tgt Ion:152 Resp: 97973
Ion Ratio Lower Upper
152 100
150 159.9 128.2 192.4
115 58.1 48.3 72.5



#5
2-Fluorophenol
Concen: 78.308 ng
RT: 5.510 min Scan# 564
Delta R.T. -0.006 min
Lab File: BF142524.D
Acq: 22 May 2025 21:51

Tgt Ion:112 Resp: 455384
Ion Ratio Lower Upper
112 100
64 58.0 47.5 71.3
63 30.3 24.9 37.3

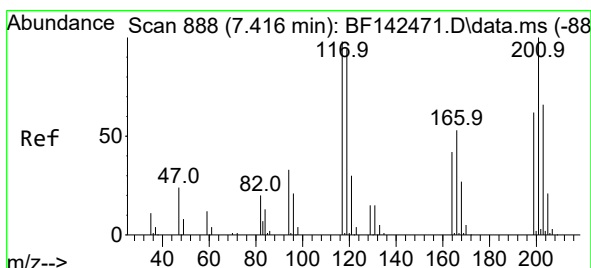
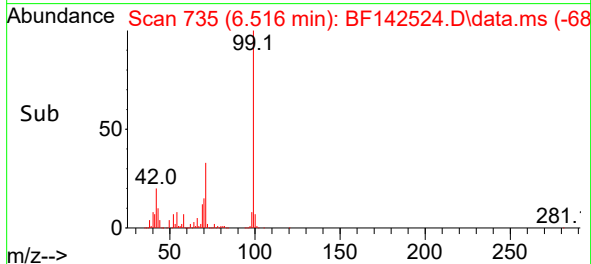
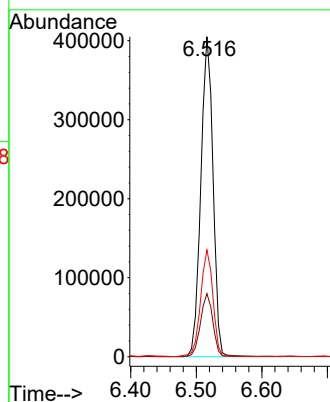
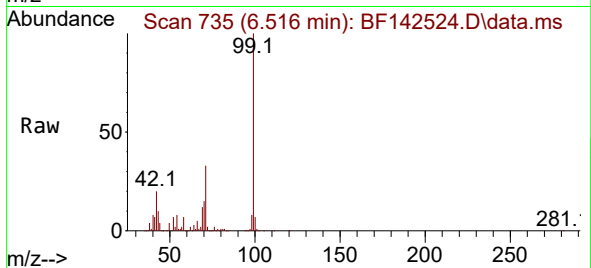




#7
Phenol-d6
Concen: 75.049 ng
RT: 6.516 min Scan# 71
Delta R.T. -0.017 min
Lab File: BF142524.D
Acq: 22 May 2025 21:51

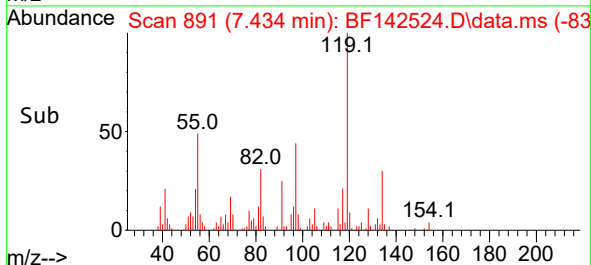
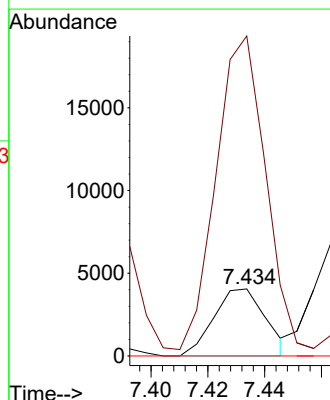
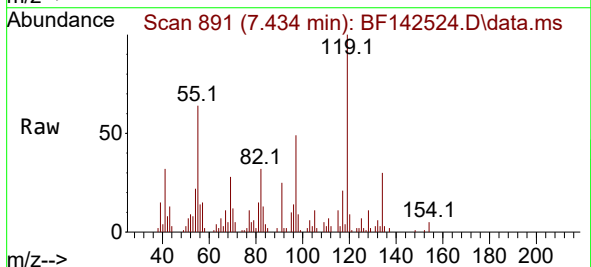
Instrument :
BNA_F
ClientSampleId :
TR-06-052125

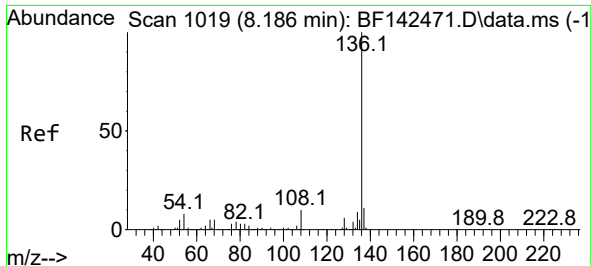
Tgt Ion: 99 Resp: 525359
Ion Ratio Lower Upper
99 100
42 19.7 16.2 24.2
71 33.3 27.3 40.9



#18
Hexachloroethane
Concen: 2.062 ng
RT: 7.434 min Scan# 891
Delta R.T. 0.018 min
Lab File: BF142524.D
Acq: 22 May 2025 21:51

Tgt Ion: 117 Resp: 5126
Ion Ratio Lower Upper
117 100
119 477.3 76.6 114.8#
201 0.0 81.3 121.9#





#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.181 min Scan# 1019

Delta R.T. -0.006 min

Lab File: BF142524.D

Acq: 22 May 2025 21:51

Instrument :

BNA_F

ClientSampleId :

TR-06-052125

Tgt Ion:136 Resp: 319894

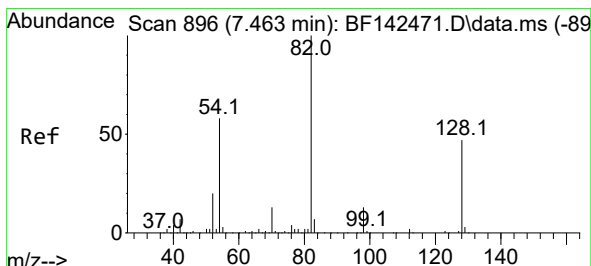
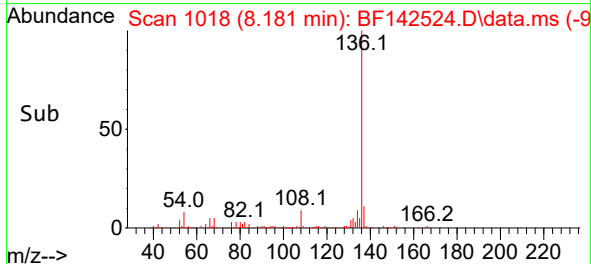
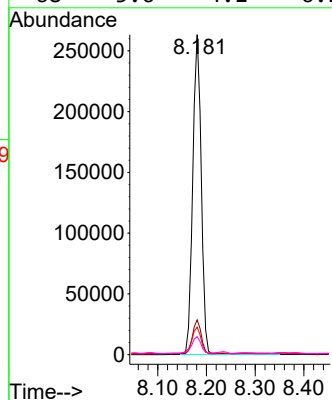
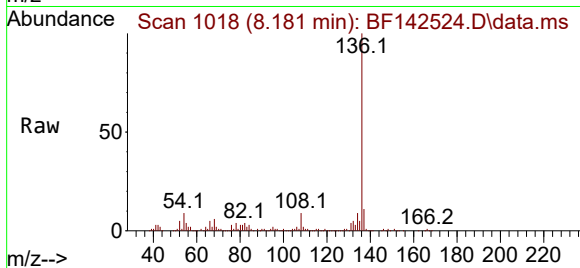
Ion Ratio Lower Upper

136 100

137 10.9 8.6 13.0

54 8.6 6.6 10.0

68 5.6 4.1 6.1



#23

Nitrobenzene-d5

Concen: 49.466 ng

RT: 7.457 min Scan# 895

Delta R.T. -0.017 min

Lab File: BF142524.D

Acq: 22 May 2025 21:51

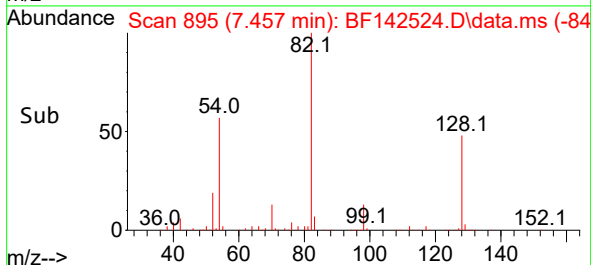
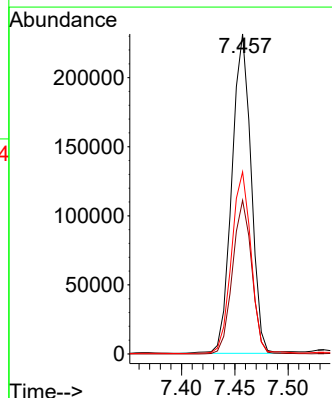
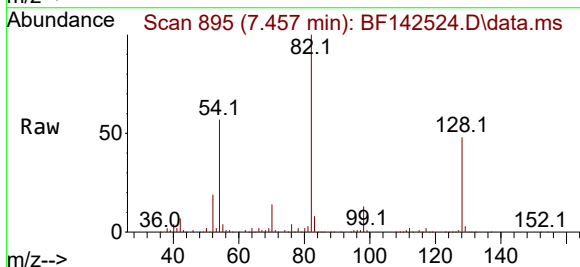
Tgt Ion: 82 Resp: 290192

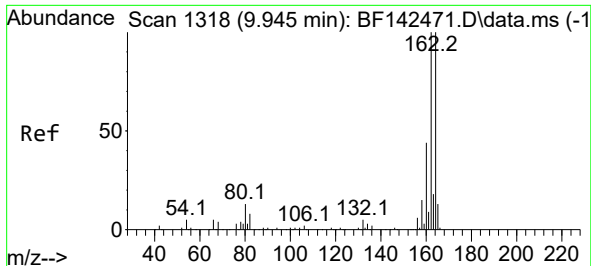
Ion Ratio Lower Upper

82 100

128 48.0 37.4 56.2

54 56.9 46.6 70.0





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.934 min Scan# 1

Delta R.T. -0.012 min

Lab File: BF142524.D

Acq: 22 May 2025 21:51

Instrument :

BNA_F

ClientSampleId :

TR-06-052125

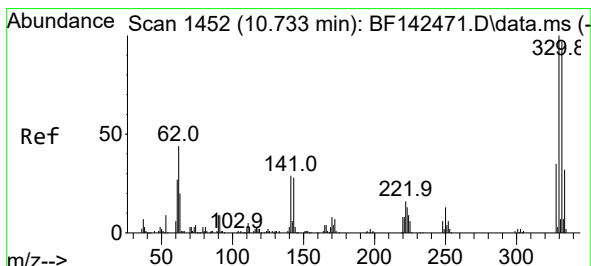
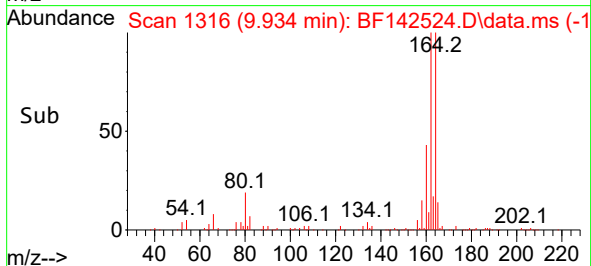
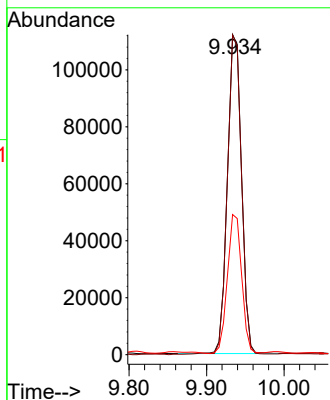
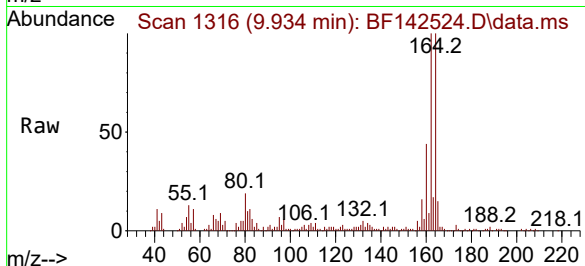
Tgt Ion:164 Resp: 142138

Ion Ratio Lower Upper

164 100

162 99.9 80.2 120.4

160 43.8 35.6 53.4



#42

2,4,6-Tribromophenol

Concen: 72.559 ng

RT: 10.722 min Scan# 1450

Delta R.T. -0.017 min

Lab File: BF142524.D

Acq: 22 May 2025 21:51

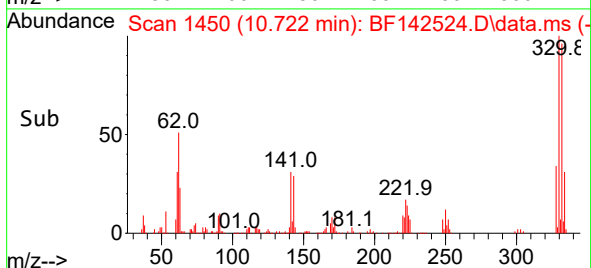
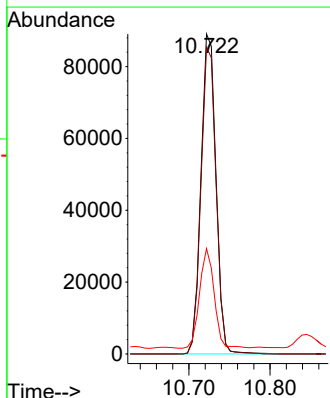
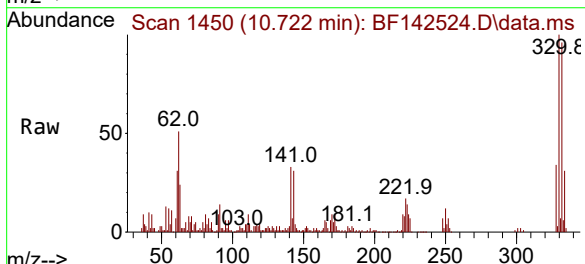
Tgt Ion:330 Resp: 114465

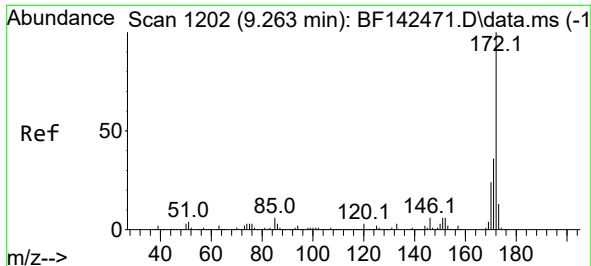
Ion Ratio Lower Upper

330 100

332 95.8 77.6 116.4

141 30.2 24.6 36.8





#45

2-Fluorobiphenyl

Concen: 48.879 ng

RT: 9.257 min Scan# 11

Delta R.T. -0.012 min

Lab File: BF142524.D

Acq: 22 May 2025 21:51

Instrument :

BNA_F

ClientSampleId :

TR-06-052125

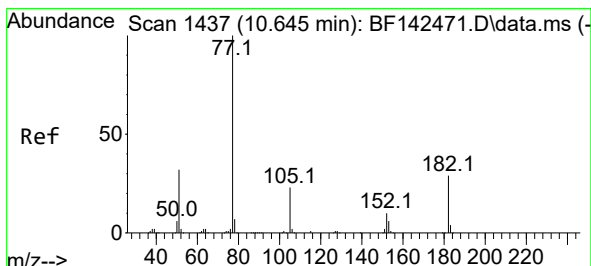
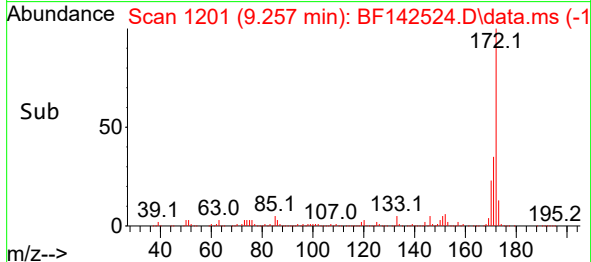
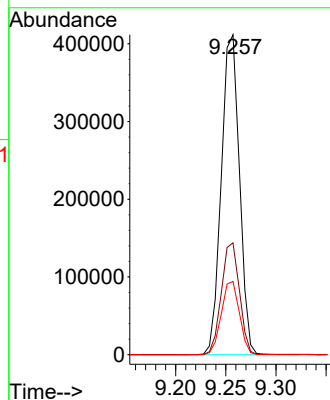
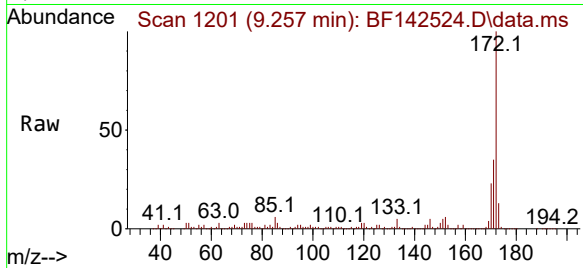
Tgt Ion:172 Resp: 517753

Ion Ratio Lower Upper

172 100

171 34.9 28.6 42.8

170 22.9 18.9 28.3



#63

Azobenzene

Concen: 4.261 ng

RT: 10.645 min Scan# 1437

Delta R.T. 0.000 min

Lab File: BF142524.D

Acq: 22 May 2025 21:51

Tgt Ion: 77 Resp: 35058

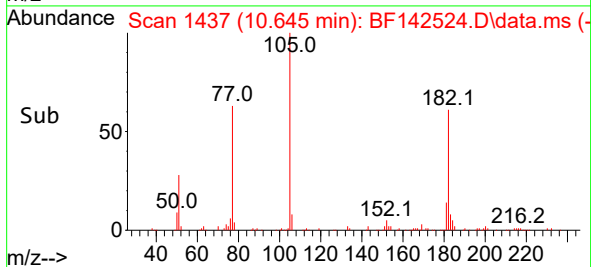
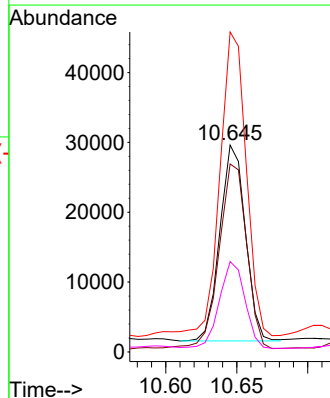
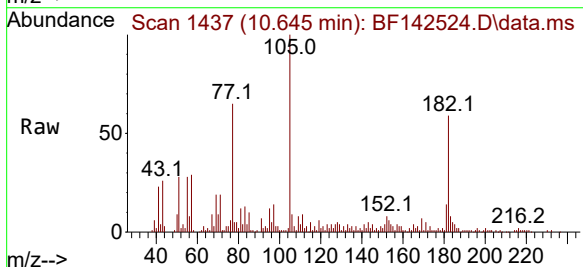
Ion Ratio Lower Upper

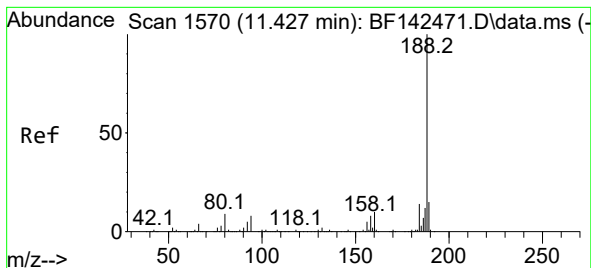
77 100

182 90.8 9.0 49.0#

105 154.6 2.4 42.4#

51 43.7 13.5 53.5





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.422 min Scan# 1

Delta R.T. -0.012 min

Lab File: BF142524.D

Acq: 22 May 2025 21:51

Instrument :

BNA_F

ClientSampleId :

TR-06-052125

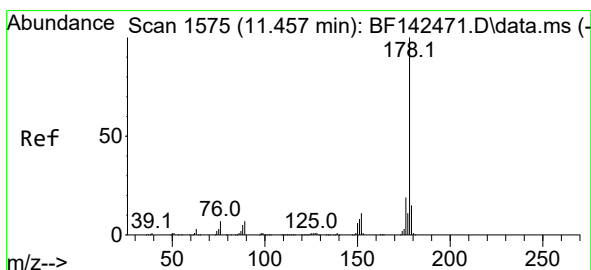
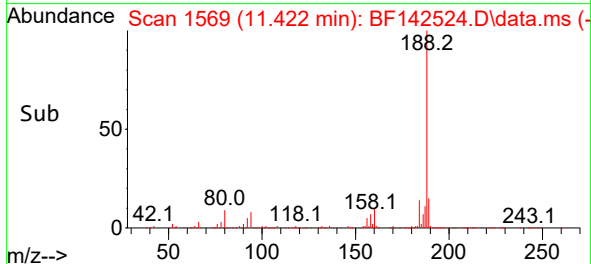
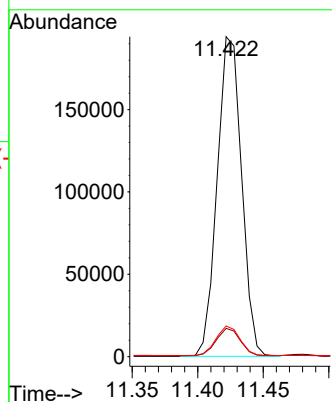
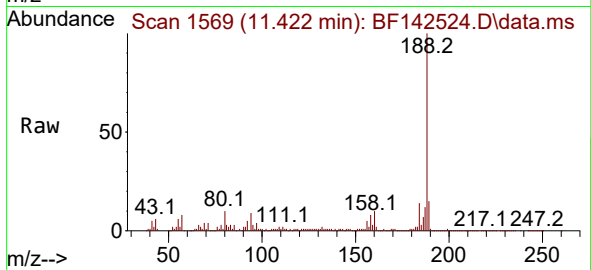
Tgt Ion:188 Resp: 251418

Ion Ratio Lower Upper

188 100

94 8.8 6.6 10.0

80 9.6 7.4 11.0



#71

Phenanthrene

Concen: 6.237 ng

RT: 11.445 min Scan# 1573

Delta R.T. -0.012 min

Lab File: BF142524.D

Acq: 22 May 2025 21:51

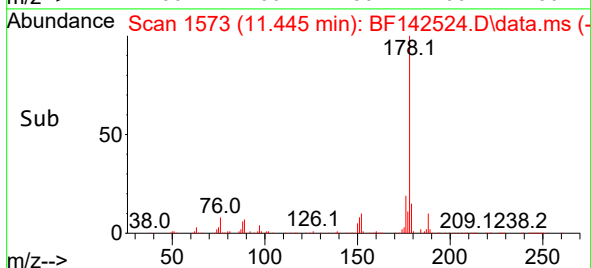
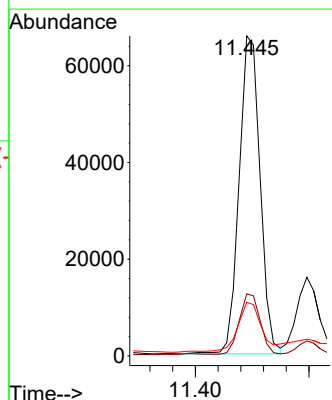
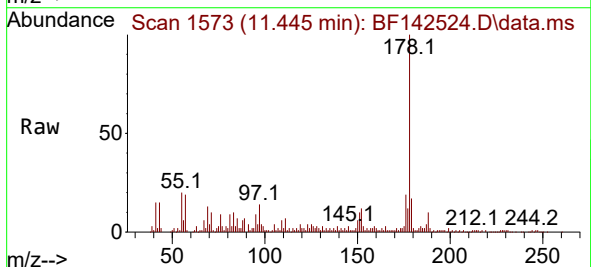
Tgt Ion:178 Resp: 83808

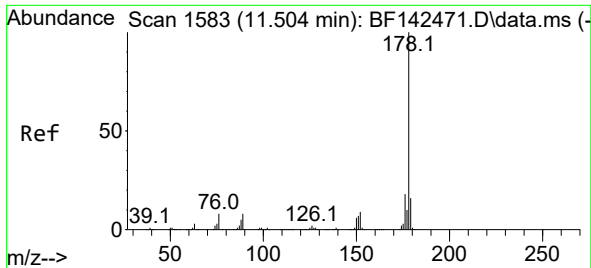
Ion Ratio Lower Upper

178 100

176 19.4 15.4 23.0

179 16.7 12.3 18.5

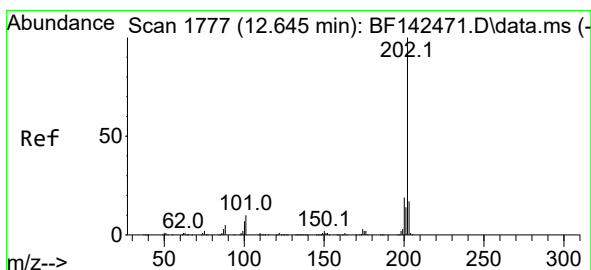
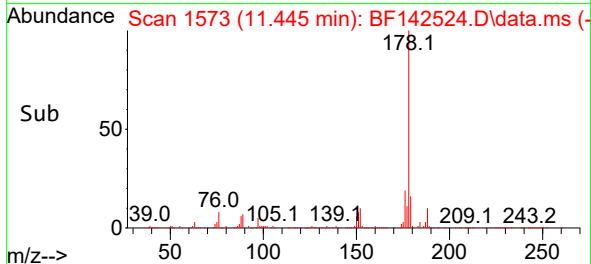
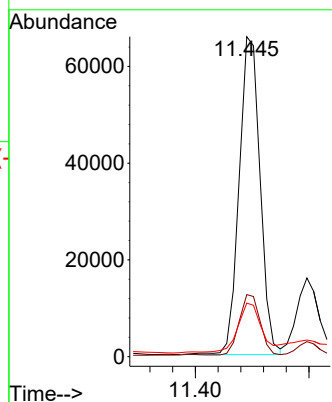
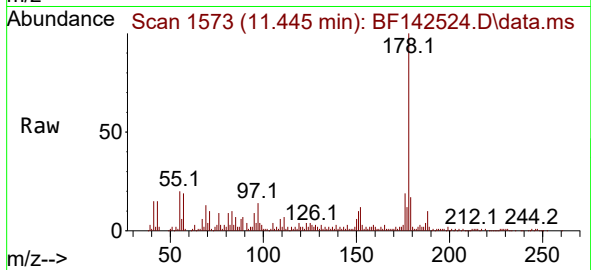




#72
 Anthracene
 Concen: 6.112 ng
 RT: 11.445 min Scan# 11
 Delta R.T. -0.064 min
 Lab File: BF142524.D
 Acq: 22 May 2025 21:51

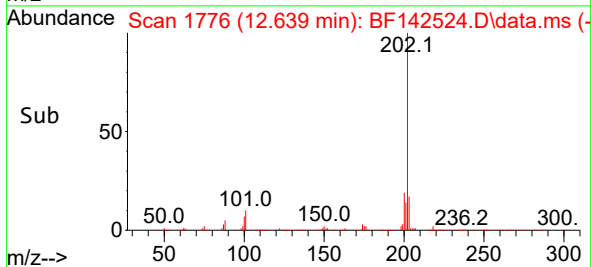
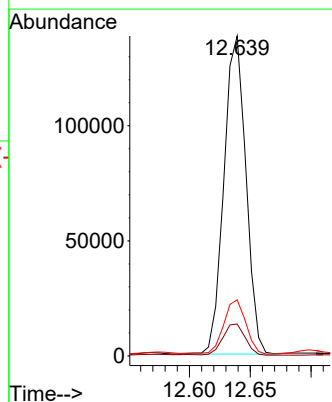
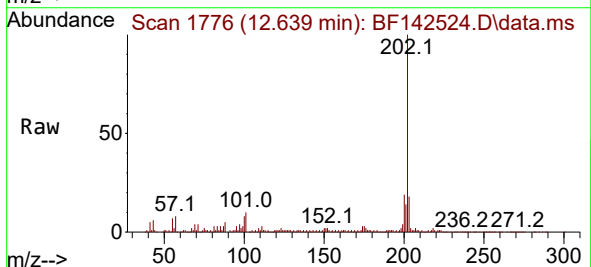
Instrument :
 BNA_F
 ClientSampleId :
 TR-06-052125

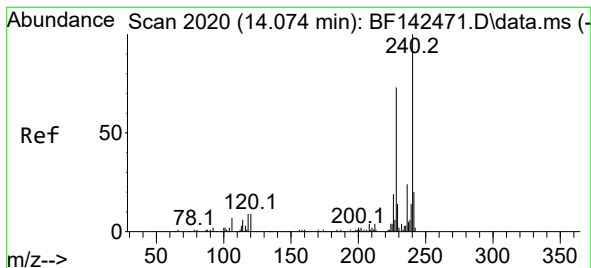
Tgt Ion:178	Resp:	83808
Ion Ratio	Lower	Upper
178	100	
176	19.4	14.6 21.8
179	16.7	12.4 18.6



#75
 Fluoranthene
 Concen: 13.854 ng
 RT: 12.639 min Scan# 1776
 Delta R.T. -0.006 min
 Lab File: BF142524.D
 Acq: 22 May 2025 21:51

Tgt Ion:202	Resp:	173931
Ion Ratio	Lower	Upper
202	100	
101	10.0	0.0 29.6
203	17.6	0.0 37.2





#76

Chrysene-d12

Concen: 20.000 ng

RT: 14.063 min Scan# 20

Delta R.T. -0.012 min

Lab File: BF142524.D

Acq: 22 May 2025 21:51

Instrument :

BNA_F

ClientSampleId :

TR-06-052125

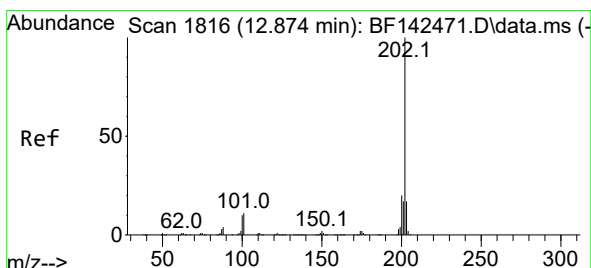
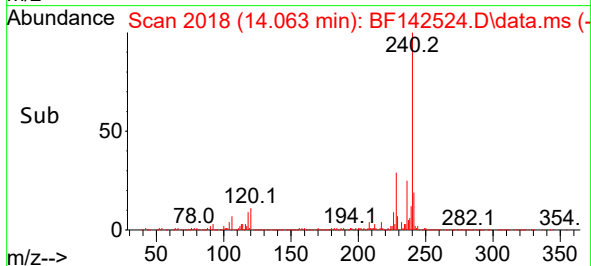
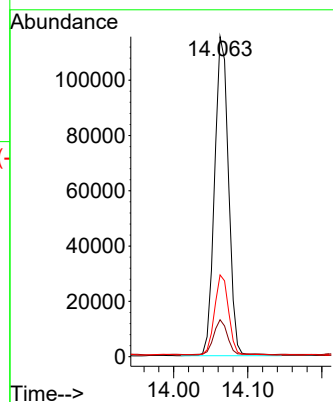
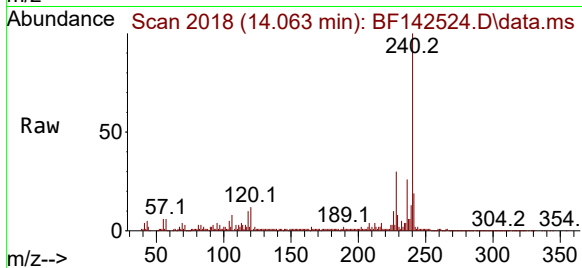
Tgt Ion:240 Resp: 150720

Ion Ratio Lower Upper

240 100

120 11.5 7.5 11.3#

236 25.5 19.6 29.4



#78

Pyrene

Concen: 12.313 ng

RT: 12.869 min Scan# 1815

Delta R.T. -0.006 min

Lab File: BF142524.D

Acq: 22 May 2025 21:51

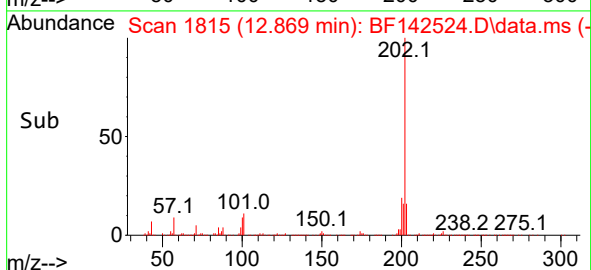
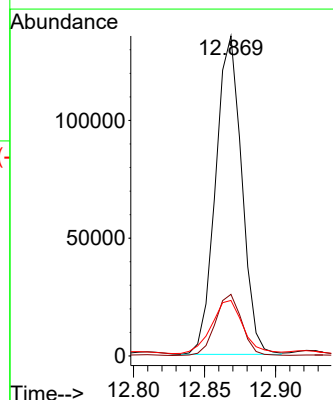
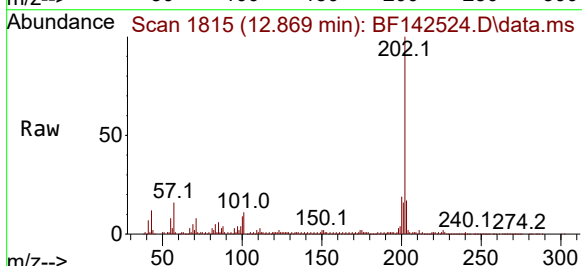
Tgt Ion:202 Resp: 173121

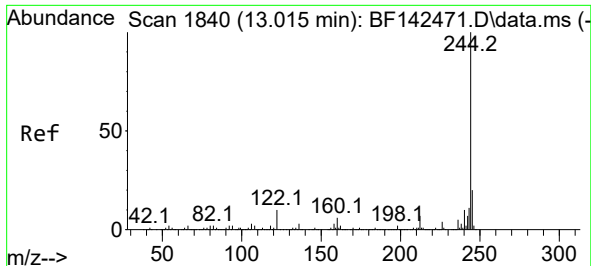
Ion Ratio Lower Upper

202 100

200 19.2 16.1 24.1

203 17.3 13.9 20.9

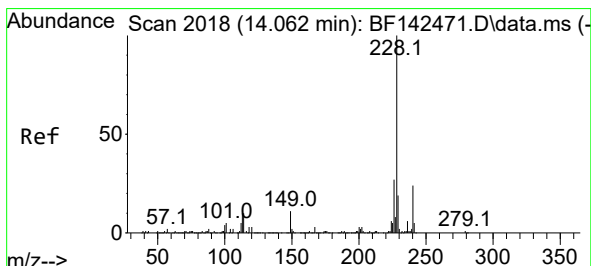
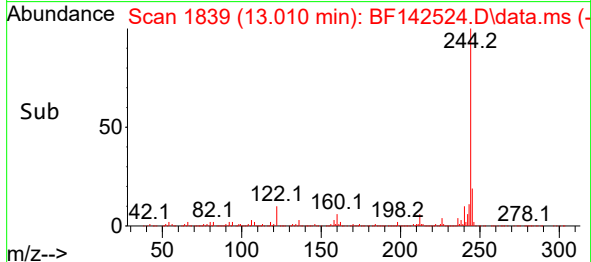
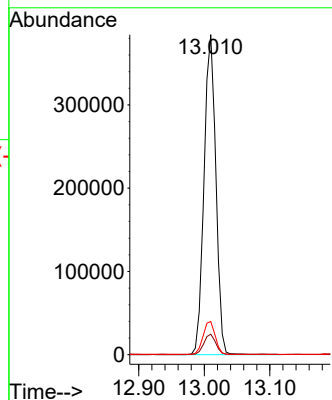
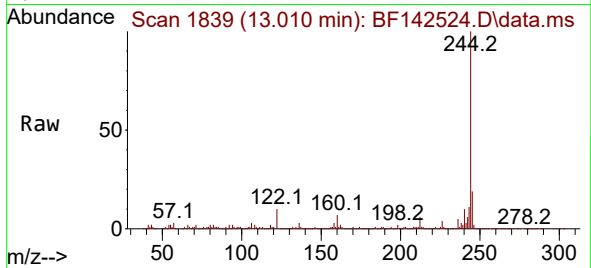




#79
 Terphenyl-d14
 Concen: 43.805 ng
 RT: 13.010 min Scan# 1840
 Delta R.T. -0.006 min
 Lab File: BF142524.D
 Acq: 22 May 2025 21:51

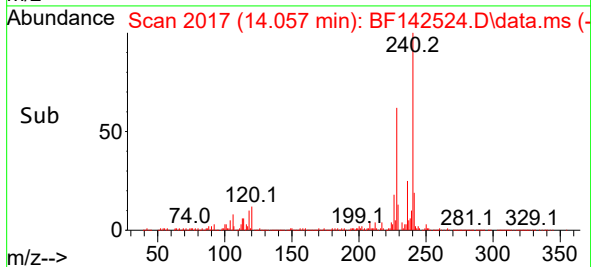
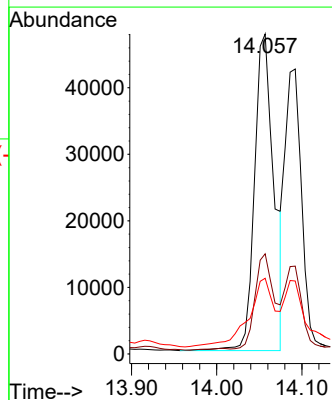
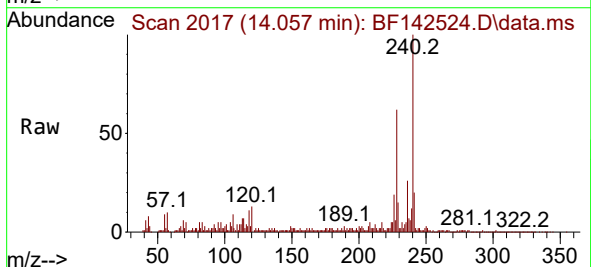
Instrument :
 BNA_F
 ClientSampleId :
 TR-06-052125

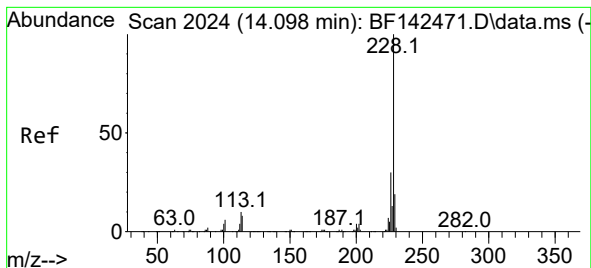
Tgt Ion:244 Resp: 483142
 Ion Ratio Lower Upper
 244 100
 212 6.4 5.3 7.9
 122 10.3 8.2 12.2



#81
 Benzo(a)anthracene
 Concen: 7.478 ng
 RT: 14.057 min Scan# 2017
 Delta R.T. -0.006 min
 Lab File: BF142524.D
 Acq: 22 May 2025 21:51

Tgt Ion:228 Resp: 75259
 Ion Ratio Lower Upper
 228 100
 226 31.3 21.2 31.8
 229 23.7 15.5 23.3#





#83

Chrysene

Concen: 6.235 ng

RT: 14.092 min Scan# 20

Delta R.T. -0.012 min

Lab File: BF142524.D

Acq: 22 May 2025 21:51

Instrument :

BNA_F

ClientSampleId :

TR-06-052125

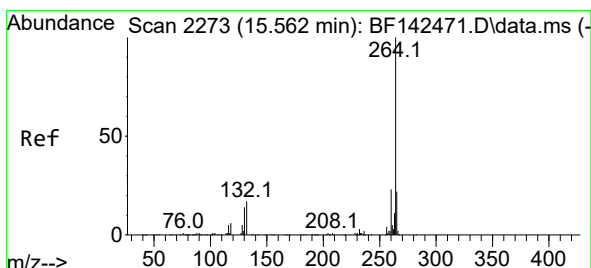
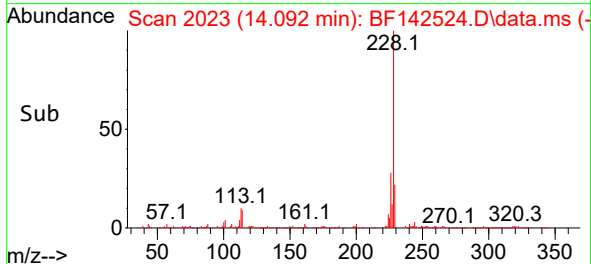
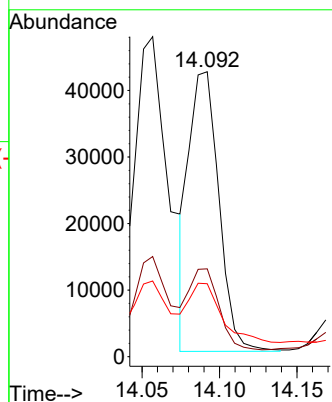
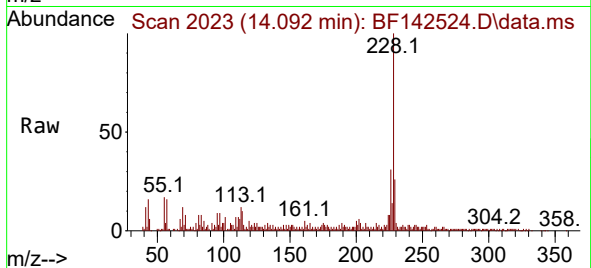
Tgt Ion:228 Resp: 56384

Ion Ratio Lower Upper

228 100

226 30.8 23.8 35.6

229 25.6 15.4 23.2#



#86

Perylene-d12

Concen: 20.000 ng

RT: 15.557 min Scan# 2272

Delta R.T. -0.012 min

Lab File: BF142524.D

Acq: 22 May 2025 21:51

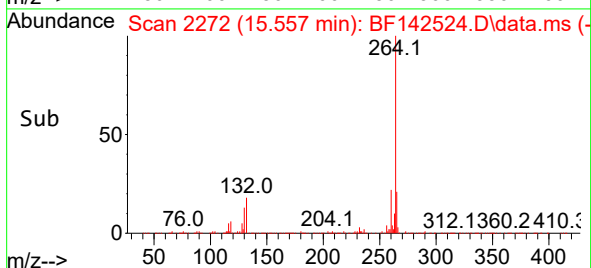
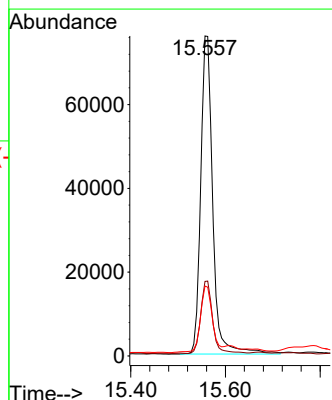
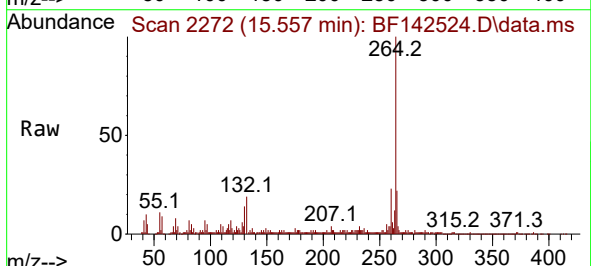
Tgt Ion:264 Resp: 134091

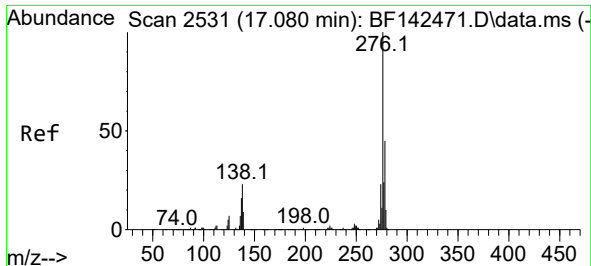
Ion Ratio Lower Upper

264 100

260 23.3 18.6 28.0

265 21.9 17.7 26.5

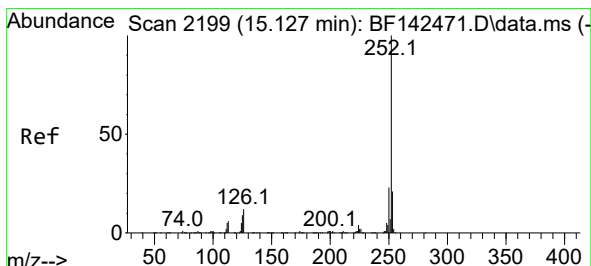
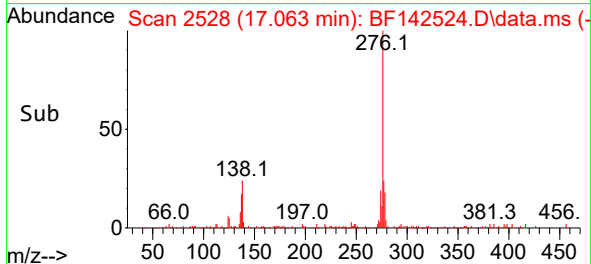
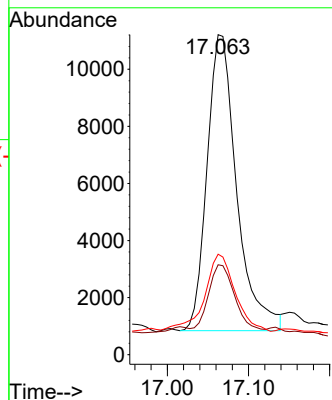
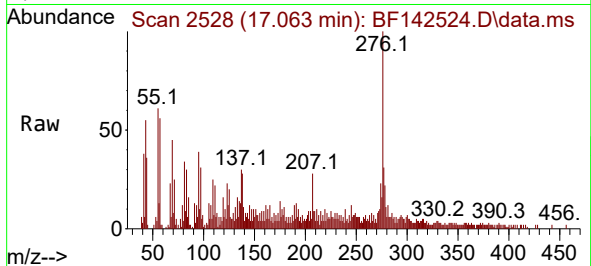




#87
Indeno(1,2,3-cd)pyrene
Concen: 2.615 ng
RT: 17.063 min Scan# 2198
Delta R.T. -0.029 min
Lab File: BF142524.D
Acq: 22 May 2025 21:51

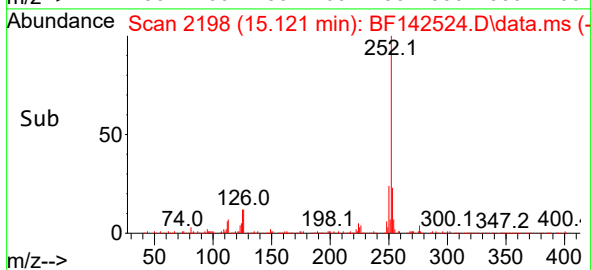
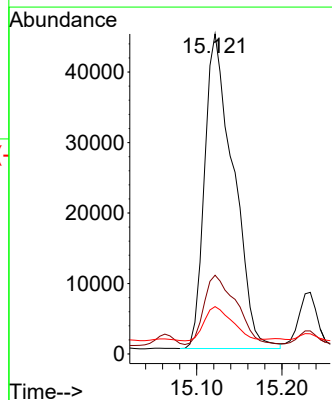
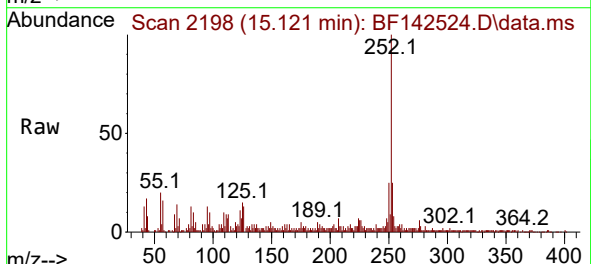
Instrument :
BNA_F
ClientSampleId :
TR-06-052125

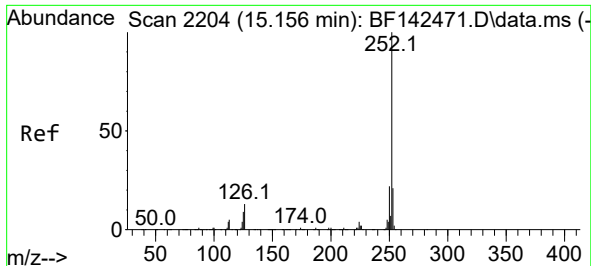
Tgt Ion:276 Resp: 26326
Ion Ratio Lower Upper
276 100
138 19.4 19.9 29.9#
277 29.7 20.2 30.2



#88
Benzo(b)fluoranthene
Concen: 13.186 ng
RT: 15.121 min Scan# 2198
Delta R.T. -0.006 min
Lab File: BF142524.D
Acq: 22 May 2025 21:51

Tgt Ion:252 Resp: 104645
Ion Ratio Lower Upper
252 100
253 24.6 17.0 25.4
125 14.8 7.4 11.0#

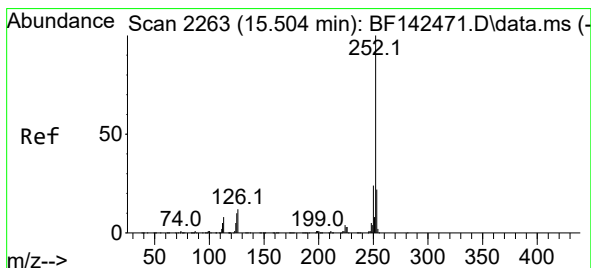
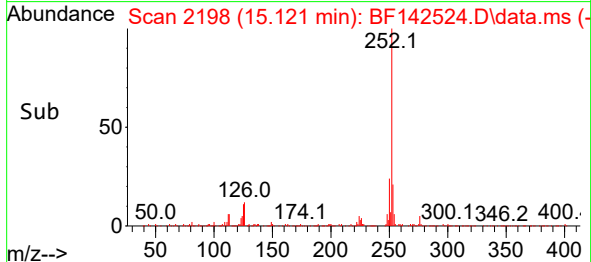
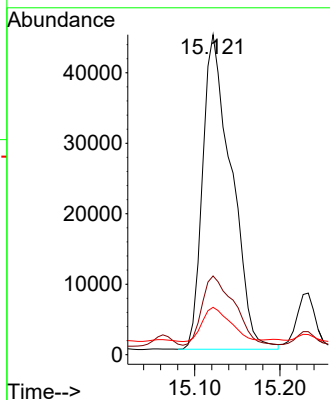
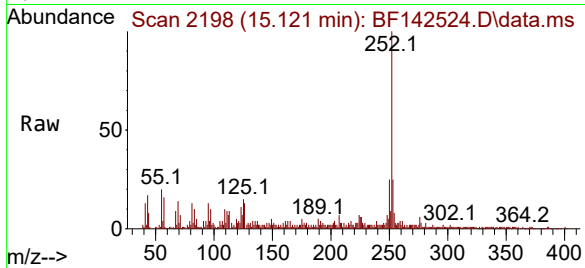




#89
Benzo(k)fluoranthene
Concen: 14.078 ng
RT: 15.121 min Scan# 21
Delta R.T. -0.041 min
Lab File: BF142524.D
Acq: 22 May 2025 21:51

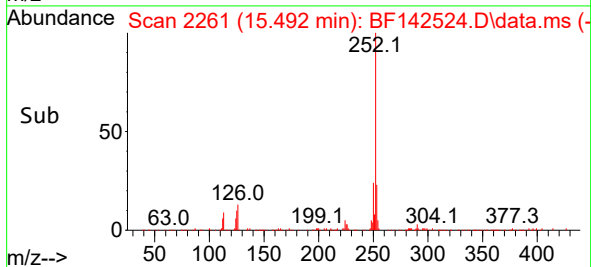
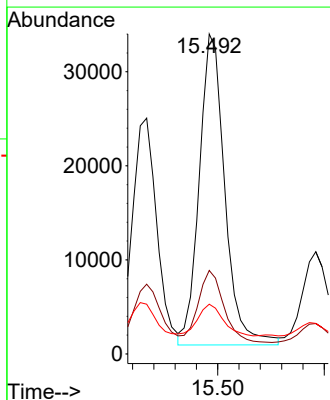
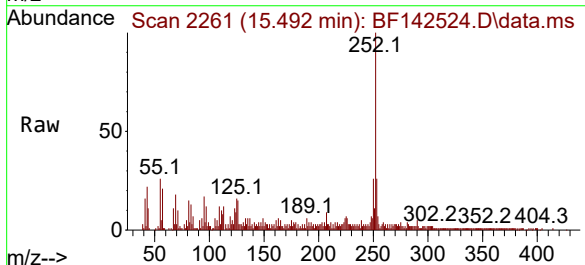
Instrument :
BNA_F
ClientSampleId :
TR-06-052125

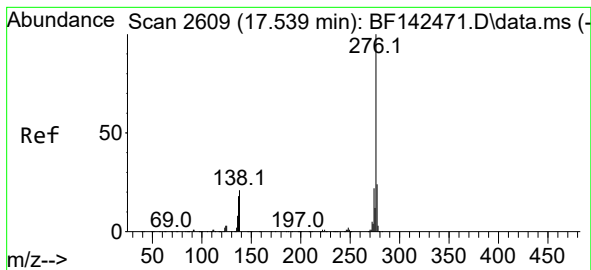
Tgt Ion:252 Resp: 104645
Ion Ratio Lower Upper
252 100
253 24.6 17.0 25.4
125 14.8 7.3 10.9#



#90
Benzo(a)pyrene
Concen: 7.398 ng
RT: 15.492 min Scan# 2261
Delta R.T. -0.017 min
Lab File: BF142524.D
Acq: 22 May 2025 21:51

Tgt Ion:252 Resp: 55338
Ion Ratio Lower Upper
252 100
253 26.1 17.4 26.0#
125 15.6 7.9 11.9#





#92

Benzo(g,h,i)perylene

Concen: 3.186 ng

RT: 17.521 min Scan# 20

Delta R.T. -0.035 min

Lab File: BF142524.D

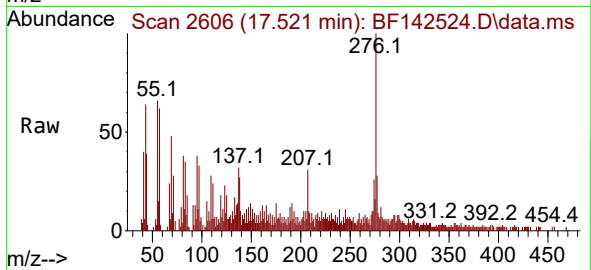
Acq: 22 May 2025 21:51

Instrument :

BNA_F

ClientSampleId :

TR-06-052125



Tgt Ion:276 Resp: 26016

Ion Ratio Lower Upper

276 100

277 27.8 19.2 28.8

138 26.6 16.8 25.2#

