

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052725\
 Data File : BF142561.D
 Acq On : 27 May 2025 14:55
 Operator : RC/JU
 Sample : Q2127-11
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 COMP-2

Quant Time: May 27 15:31:44 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)

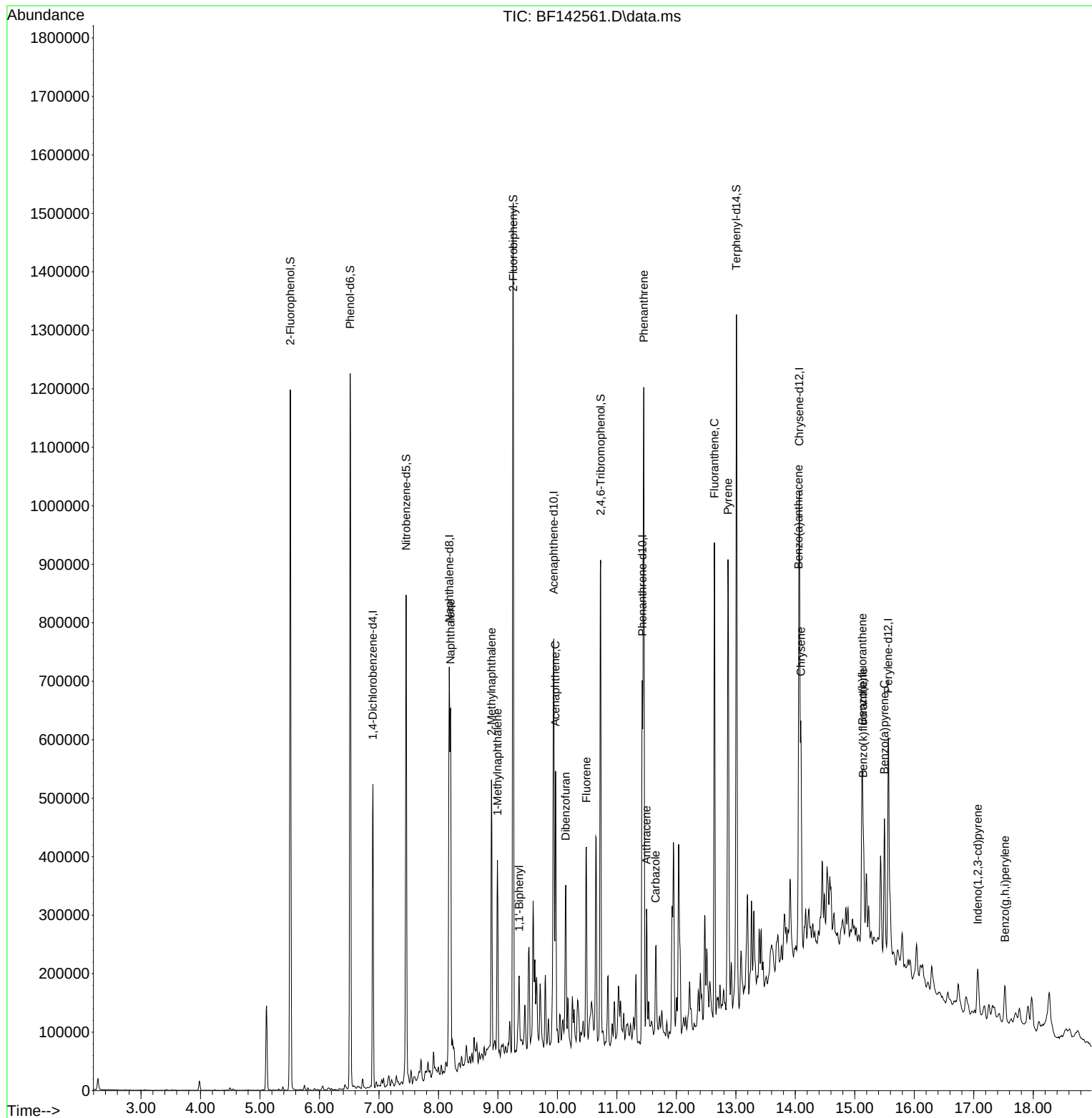
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.898	152	110958	20.000	ng	0.00
21) Naphthalene-d8	8.181	136	411515	20.000	ng	0.00
39) Acenaphthene-d10	9.939	164	214598	20.000	ng	0.00
64) Phenanthrene-d10	11.427	188	322167	20.000	ng	0.00
76) Chrysene-d12	14.068	240	259845	20.000	ng	0.00
86) Perylene-d12	15.562	264	226255	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.510	112	454400	68.995	ng	0.00
7) Phenol-d6	6.516	99	567944	71.638	ng	-0.02
23) Nitrobenzene-d5	7.457	82	343202	45.477	ng	-0.02
42) 2,4,6-Tribromophenol	10.727	330	143833	60.389	ng	-0.01
45) 2-Fluorobiphenyl	9.257	172	661778	41.380	ng	-0.01
79) Terphenyl-d14	13.010	244	564484	29.687	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	8.204	128	369906	18.255	ng	99
37) 2-Methylnaphthalene	8.892	142	182875	14.346	ng	100
38) 1-Methylnaphthalene	8.992	142	122714	9.306	ng	99
46) 1,1'-Biphenyl	9.357	154	54153	3.253	ng	100
52) Acenaphthene	9.969	154	136406	10.755	ng	99
55) Dibenzofuran	10.139	168	113574	6.223	ng	# 97
58) Fluorene	10.486	166	137844	9.776	ng	99
71) Phenanthrene	11.451	178	588675	34.191	ng	99
72) Anthracene	11.498	178	131593	7.489	ng	100
73) Carbazole	11.651	167	84544	5.628	ng	98
75) Fluoranthene	12.639	202	461644	28.695	ng	98
78) Pyrene	12.868	202	462651	19.086	ng	98
81) Benzo(a)anthracene	14.057	228	215049m	12.394	ng	
83) Chrysene	14.092	228	212292	13.616	ng	96
87) Indeno(1,2,3-cd)pyrene	17.068	276	62193	3.661	ng	96
88) Benzo(b)fluoranthene	15.127	252	201515m	15.049	ng	
89) Benzo(k)fluoranthene	15.139	252	78790m	6.282	ng	
90) Benzo(a)pyrene	15.498	252	142398	11.282	ng	# 95
92) Benzo(g,h,i)perylene	17.527	276	61337	4.451	ng	97

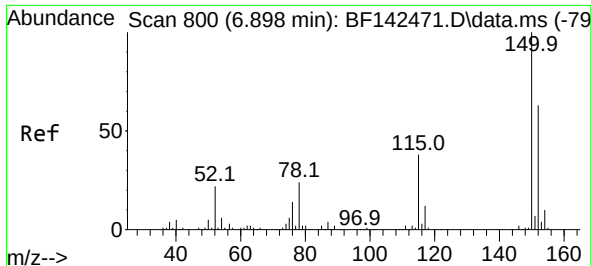
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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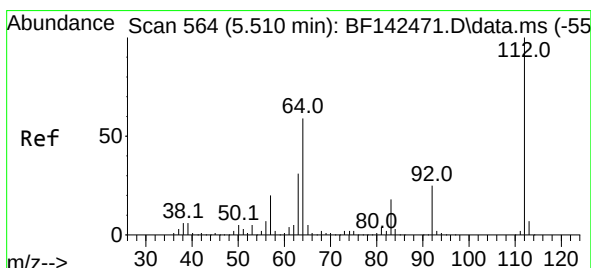
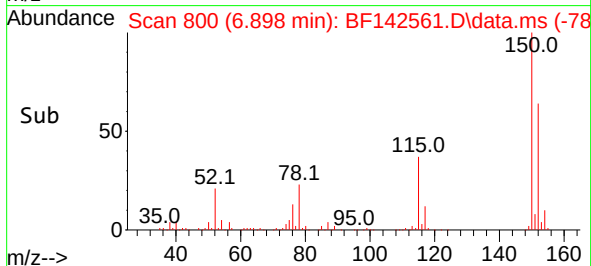
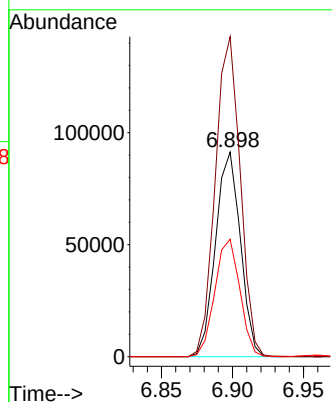
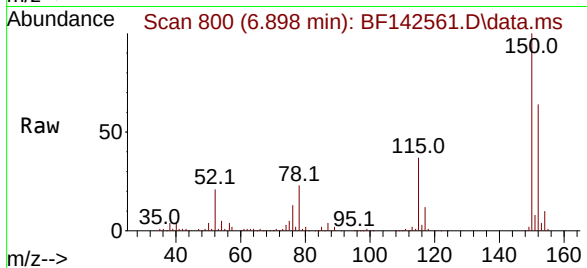




#1
 1,4-Dichlorobenzene-d4
 Concen: 20.000 ng
 RT: 6.898 min Scan# 800
 Delta R.T. -0.006 min
 Lab File: BF142561.D
 Acq: 27 May 2025 14:55

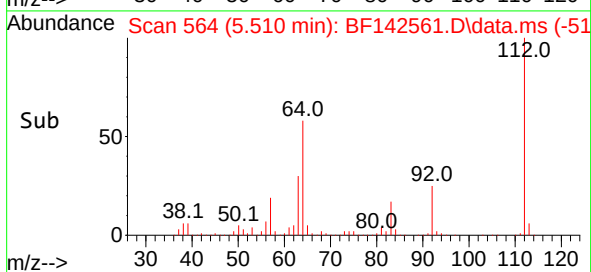
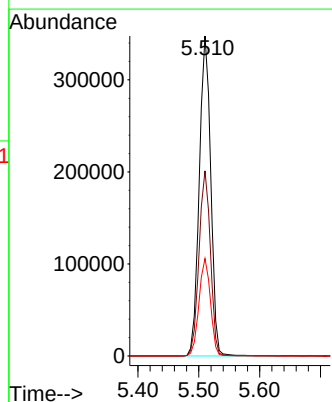
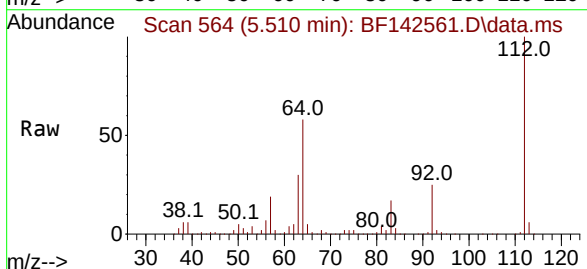
Instrument :
 BNA_F
 ClientSampleId :
 COMP-2

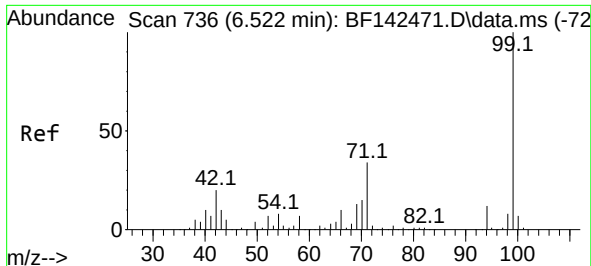
Tgt Ion:152 Resp: 110958
 Ion Ratio Lower Upper
 152 100
 150 156.4 128.2 192.4
 115 57.4 48.3 72.5



#5
 2-Fluorophenol
 Concen: 68.995 ng
 RT: 5.510 min Scan# 564
 Delta R.T. -0.006 min
 Lab File: BF142561.D
 Acq: 27 May 2025 14:55

Tgt Ion:112 Resp: 454400
 Ion Ratio Lower Upper
 112 100
 64 57.8 47.5 71.3
 63 30.5 24.9 37.3

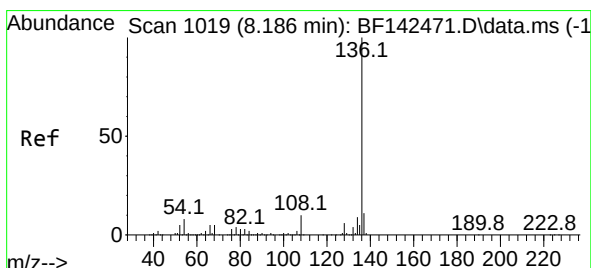
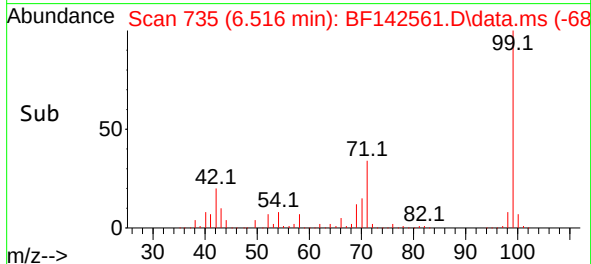
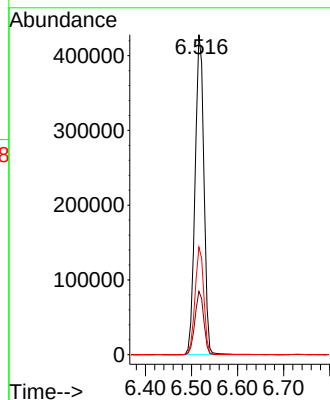
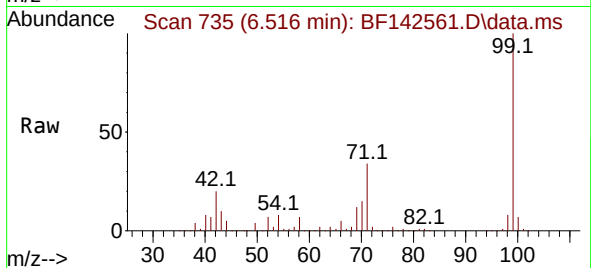




#7
Phenol-d6
Concen: 71.638 ng
RT: 6.516 min Scan# 71
Delta R.T. -0.018 min
Lab File: BF142561.D
Acq: 27 May 2025 14:55

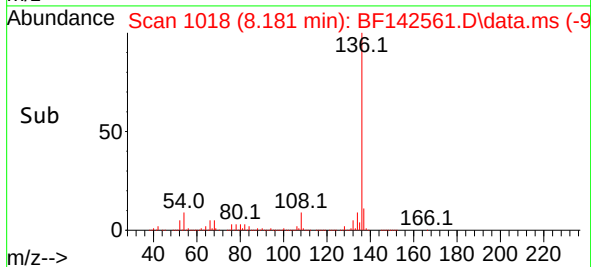
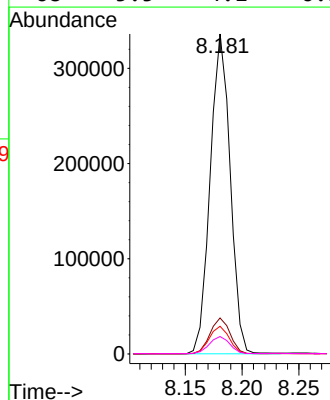
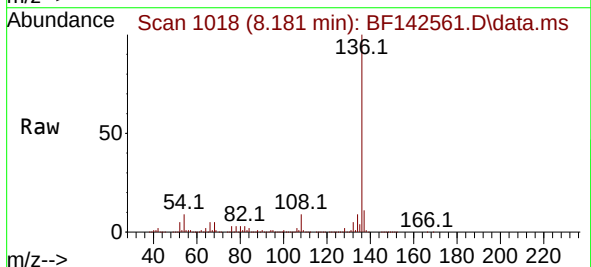
Instrument :
BNA_F
ClientSampleId :
COMP-2

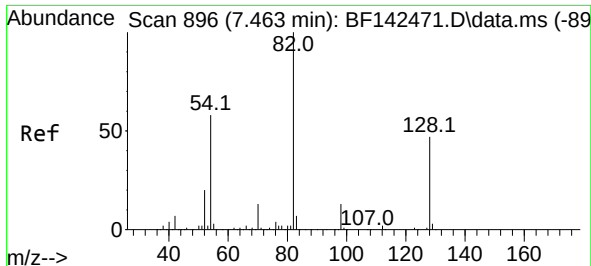
Tgt Ion: 99 Resp: 567944
Ion Ratio Lower Upper
99 100
42 19.8 16.2 24.2
71 33.6 27.3 40.9



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.181 min Scan# 1018
Delta R.T. -0.006 min
Lab File: BF142561.D
Acq: 27 May 2025 14:55

Tgt Ion: 136 Resp: 411515
Ion Ratio Lower Upper
136 100
137 11.3 8.6 13.0
54 8.6 6.6 10.0
68 5.5 4.1 6.1





#23

Nitrobenzene-d5

Concen: 45.477 ng

RT: 7.457 min Scan# 896

Delta R.T. -0.018 min

Lab File: BF142561.D

Acq: 27 May 2025 14:55

Instrument :

BNA_F

ClientSampleId :

COMP-2

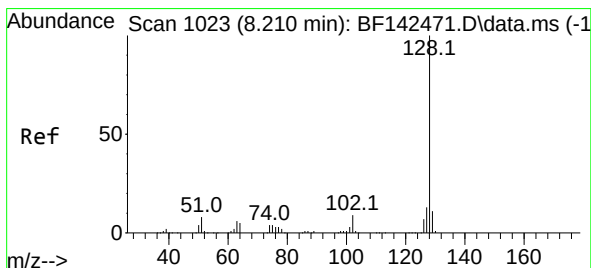
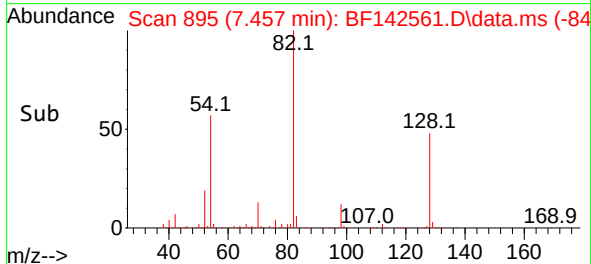
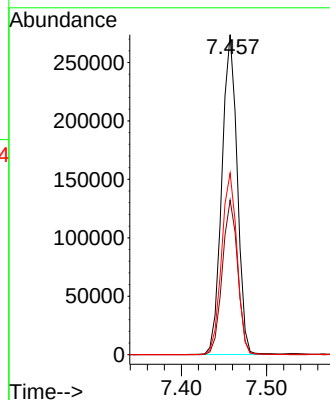
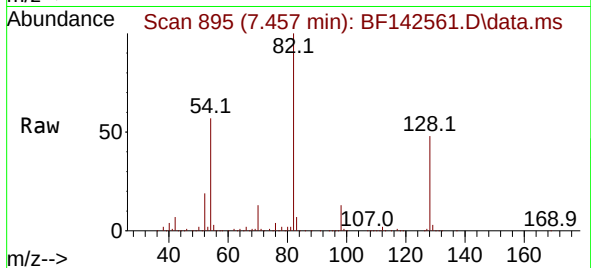
Tgt Ion: 82 Resp: 343202

Ion Ratio Lower Upper

82 100

128 48.3 37.4 56.2

54 56.7 46.6 70.0



#31

Naphthalene

Concen: 18.255 ng

RT: 8.204 min Scan# 1022

Delta R.T. -0.006 min

Lab File: BF142561.D

Acq: 27 May 2025 14:55

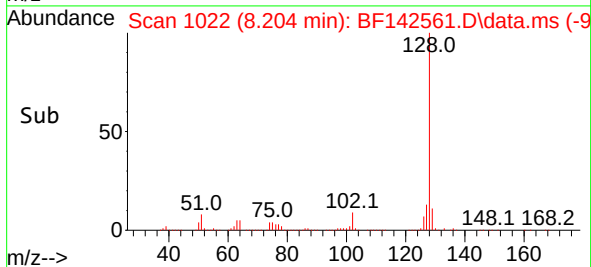
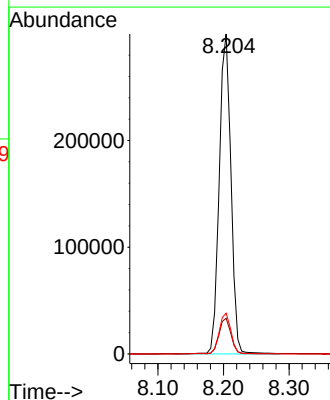
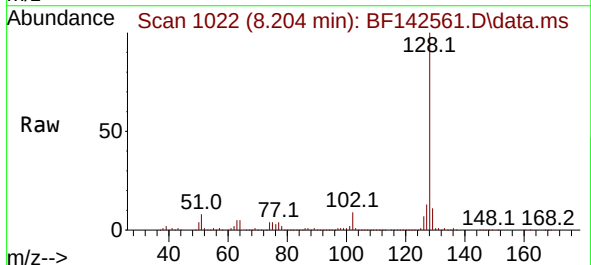
Tgt Ion: 128 Resp: 369906

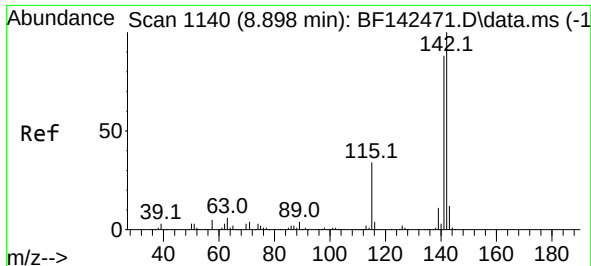
Ion Ratio Lower Upper

128 100

129 11.2 8.9 13.3

127 12.8 10.5 15.7

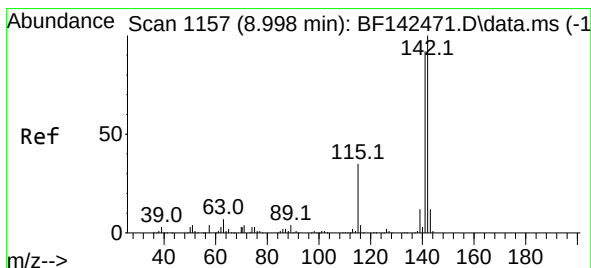
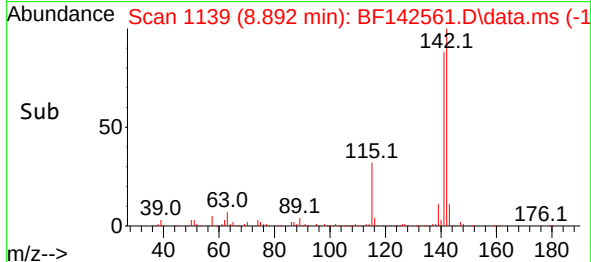
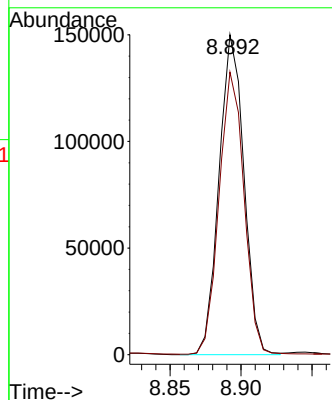
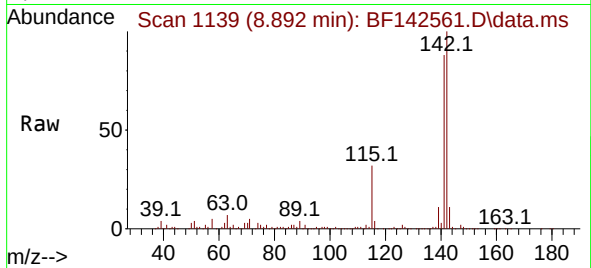




#37
2-Methylnaphthalene
Concen: 14.346 ng
RT: 8.892 min Scan# 1140
Delta R.T. -0.006 min
Lab File: BF142561.D
Acq: 27 May 2025 14:55

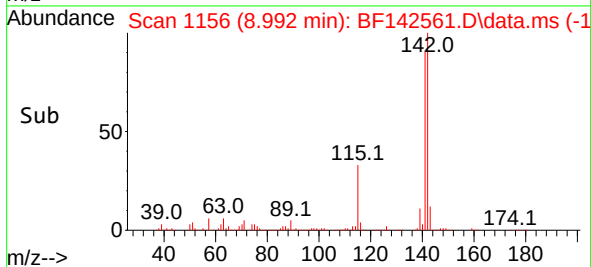
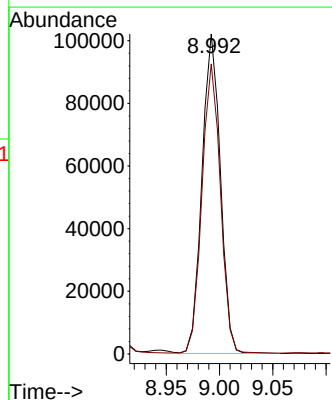
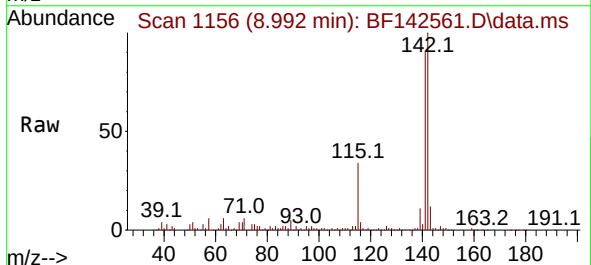
Instrument :
BNA_F
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COMP-2

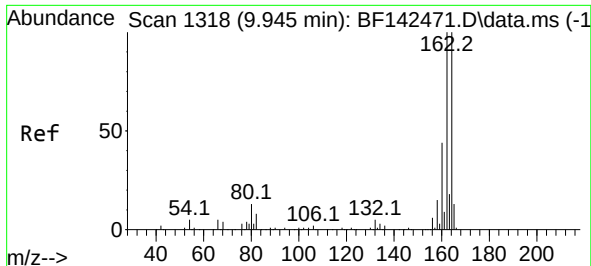
Tgt Ion:142 Resp: 182875
Ion Ratio Lower Upper
142 100
141 88.3 70.7 106.1



#38
1-Methylnaphthalene
Concen: 9.306 ng
RT: 8.992 min Scan# 1156
Delta R.T. -0.006 min
Lab File: BF142561.D
Acq: 27 May 2025 14:55

Tgt Ion:142 Resp: 122714
Ion Ratio Lower Upper
142 100
141 90.6 73.4 110.2

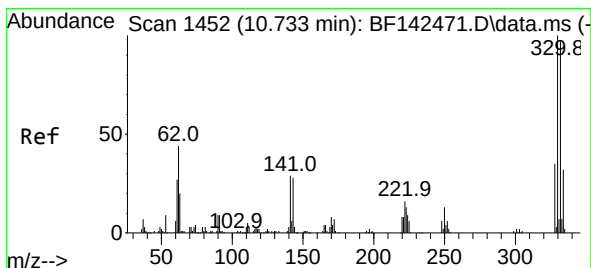
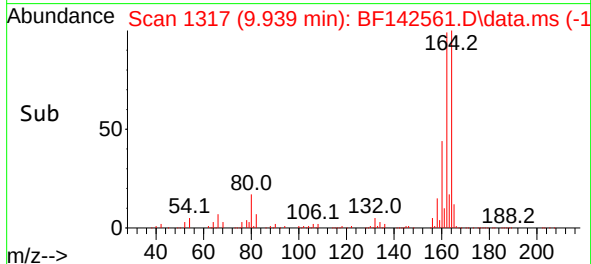
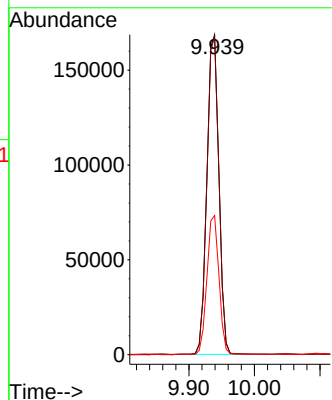
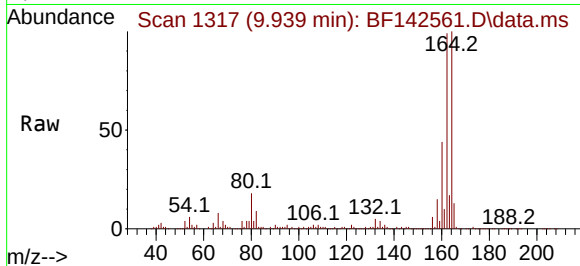




#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.939 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF142561.D
Acq: 27 May 2025 14:55

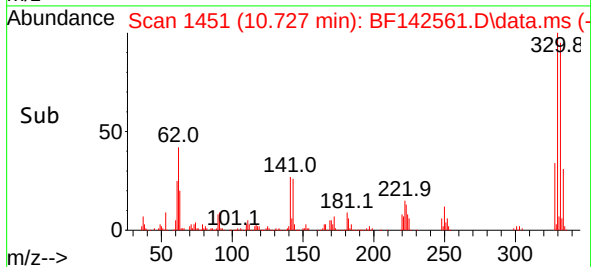
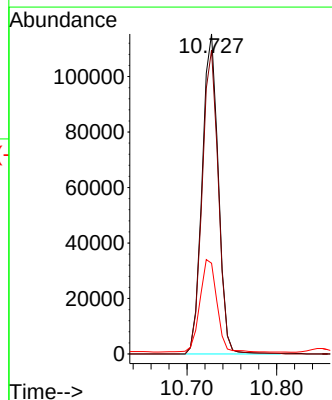
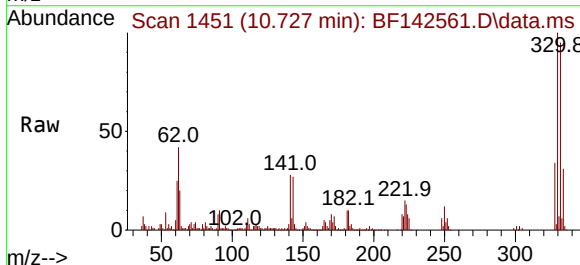
Instrument :
BNA_F
ClientSampleId :
COMP-2

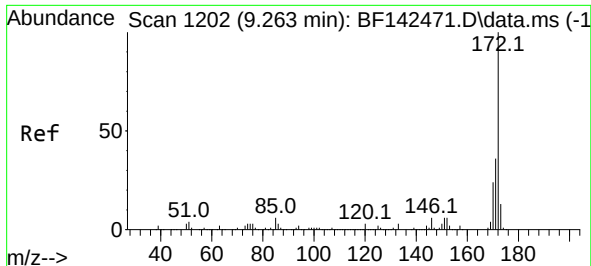
Tgt Ion:164 Resp: 214598
Ion Ratio Lower Upper
164 100
162 99.3 80.2 120.4
160 43.5 35.6 53.4



#42
2,4,6-Tribromophenol
Concen: 60.389 ng
RT: 10.727 min Scan# 1451
Delta R.T. -0.012 min
Lab File: BF142561.D
Acq: 27 May 2025 14:55

Tgt Ion:330 Resp: 143833
Ion Ratio Lower Upper
330 100
332 95.2 77.6 116.4
141 30.5 24.6 36.8





#45

2-Fluorobiphenyl

Concen: 41.380 ng

RT: 9.257 min Scan# 11

Delta R.T. -0.012 min

Lab File: BF142561.D

Acq: 27 May 2025 14:55

Instrument :

BNA_F

ClientSampleId :

COMP-2

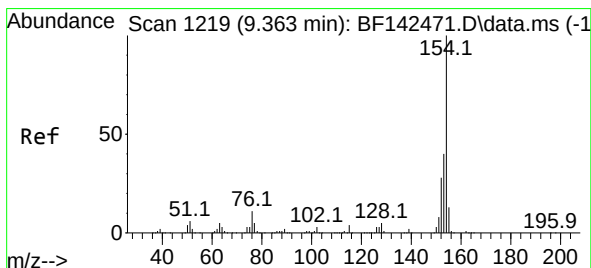
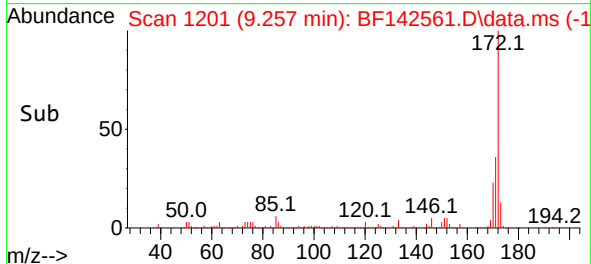
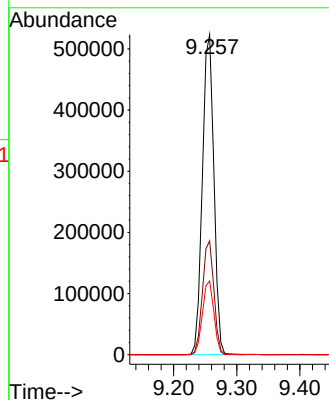
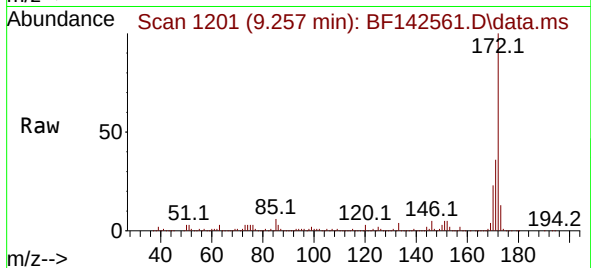
Tgt Ion:172 Resp: 661778

Ion Ratio Lower Upper

172 100

171 35.6 28.6 42.8

170 23.0 18.9 28.3



#46

1,1'-Biphenyl

Concen: 3.253 ng

RT: 9.357 min Scan# 1218

Delta R.T. -0.012 min

Lab File: BF142561.D

Acq: 27 May 2025 14:55

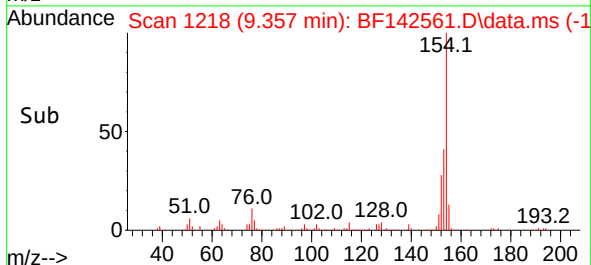
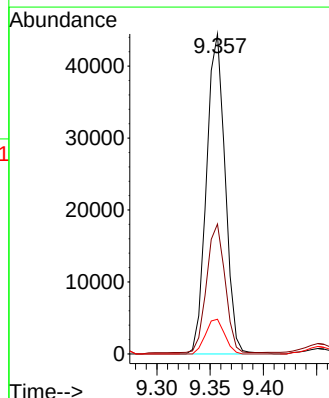
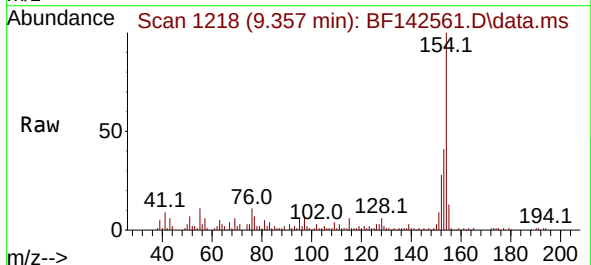
Tgt Ion:154 Resp: 54153

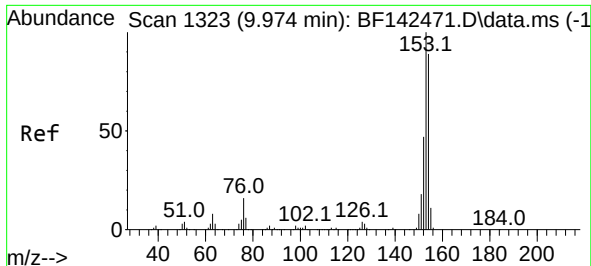
Ion Ratio Lower Upper

154 100

153 40.6 20.4 60.4

76 10.9 0.0 30.8

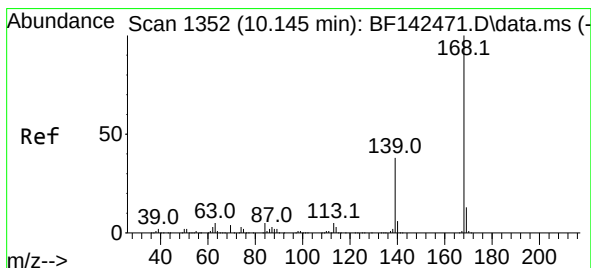
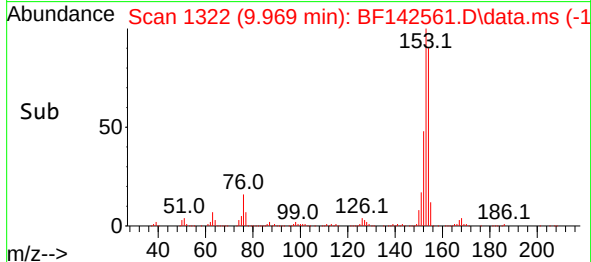
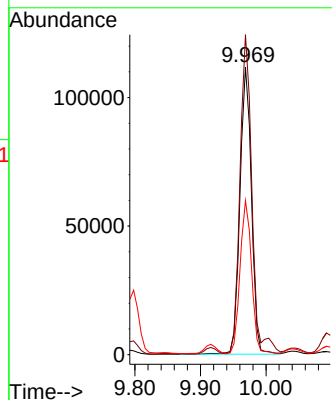
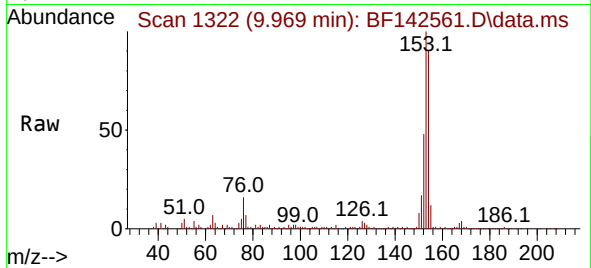




#52
Acenaphthene
Concen: 10.755 ng
RT: 9.969 min Scan# 1322
Delta R.T. -0.011 min
Lab File: BF142561.D
Acq: 27 May 2025 14:55

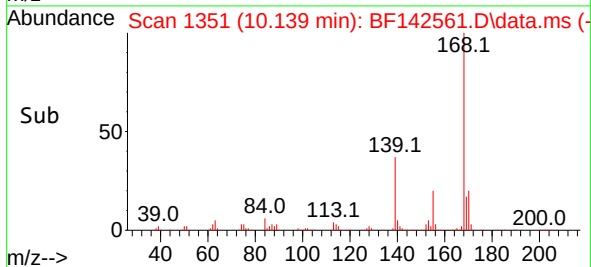
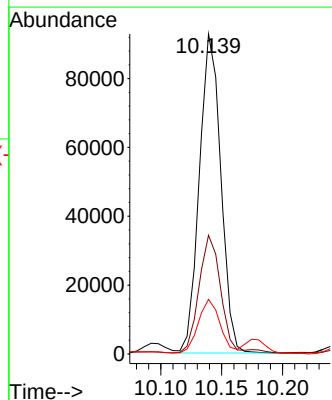
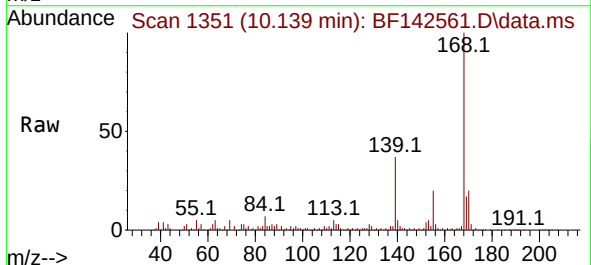
Instrument :
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COMP-2

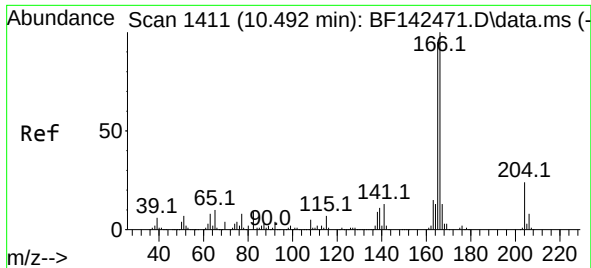
Tgt Ion:154 Resp: 136406
Ion Ratio Lower Upper
154 100
153 111.2 90.0 135.0
152 53.6 42.6 64.0



#55
Dibenzofuran
Concen: 6.223 ng
RT: 10.139 min Scan# 1351
Delta R.T. -0.012 min
Lab File: BF142561.D
Acq: 27 May 2025 14:55

Tgt Ion:168 Resp: 113574
Ion Ratio Lower Upper
168 100
139 37.1 30.2 45.2
169 17.1 10.7 16.1#

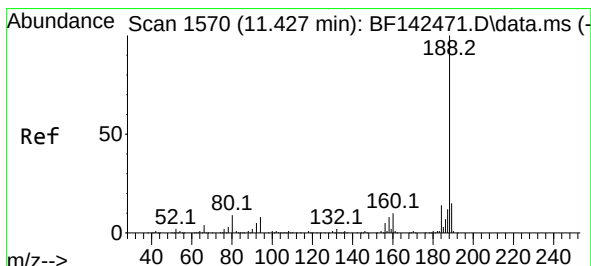
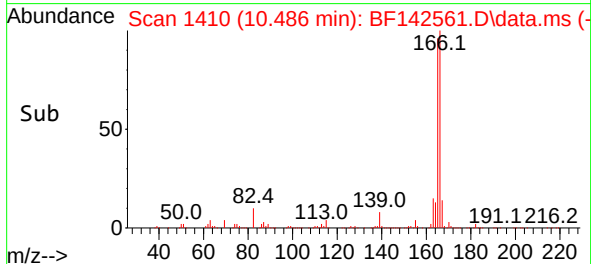
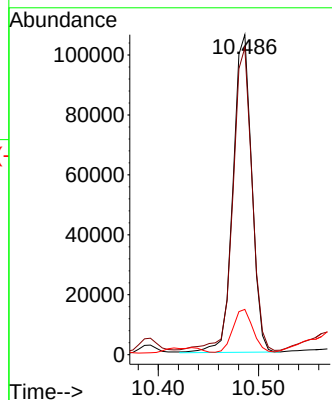
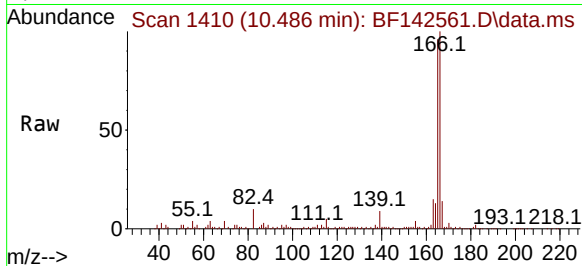




#58
 Fluorene
 Concen: 9.776 ng
 RT: 10.486 min Scan# 1411
 Delta R.T. -0.012 min
 Lab File: BF142561.D
 Acq: 27 May 2025 14:55

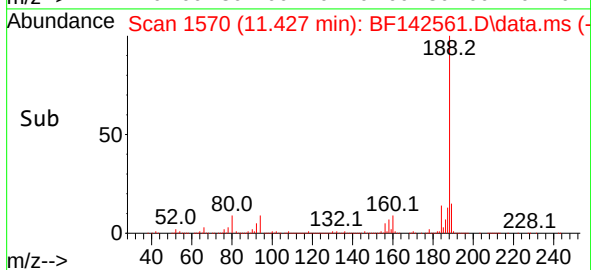
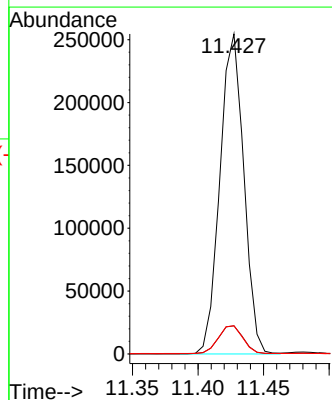
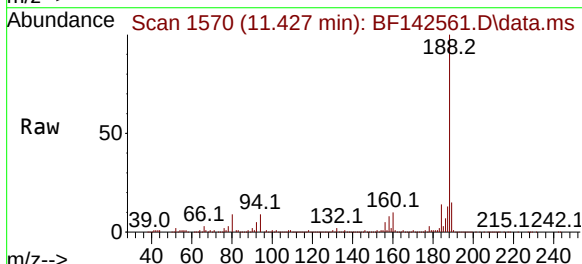
Instrument :
 BNA_F
 ClientSampleId :
 COMP-2

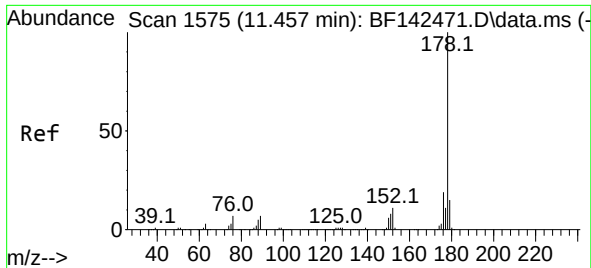
Tgt Ion:166 Resp: 137844
 Ion Ratio Lower Upper
 166 100
 165 95.9 75.8 113.8
 167 14.2 10.6 16.0



#64
 Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.427 min Scan# 1570
 Delta R.T. -0.006 min
 Lab File: BF142561.D
 Acq: 27 May 2025 14:55

Tgt Ion:188 Resp: 322167
 Ion Ratio Lower Upper
 188 100
 94 8.8 6.6 10.0
 80 8.8 7.4 11.0

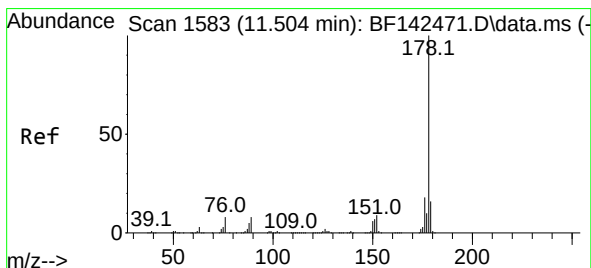
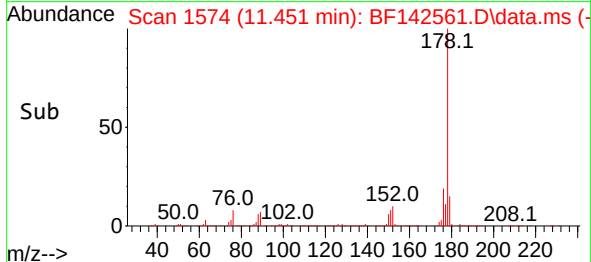
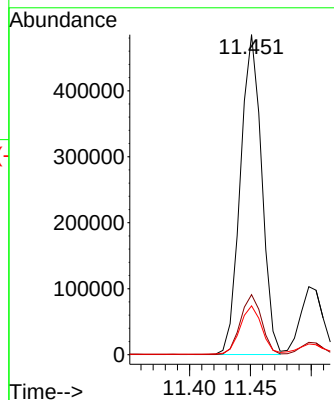
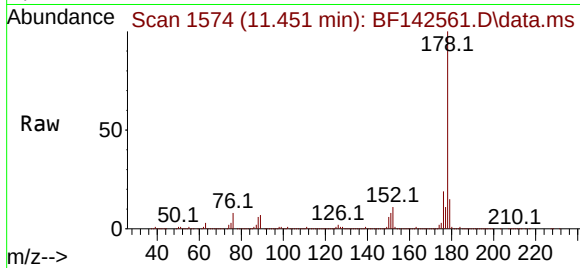




#71
Phenanthrene
Concen: 34.191 ng
RT: 11.451 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF142561.D
Acq: 27 May 2025 14:55

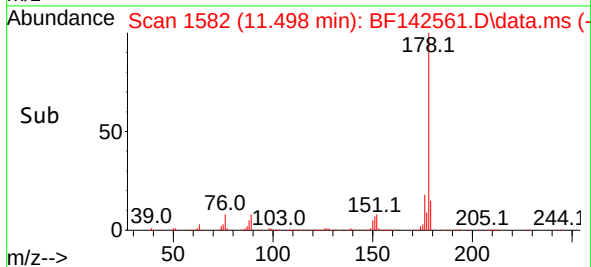
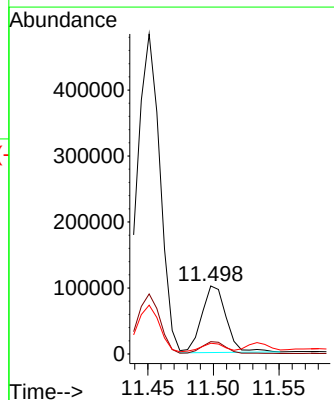
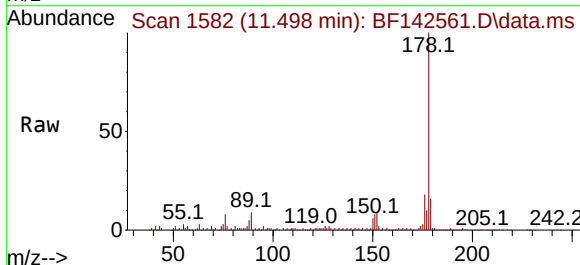
Instrument :
BNA_F
ClientSampleId :
COMP-2

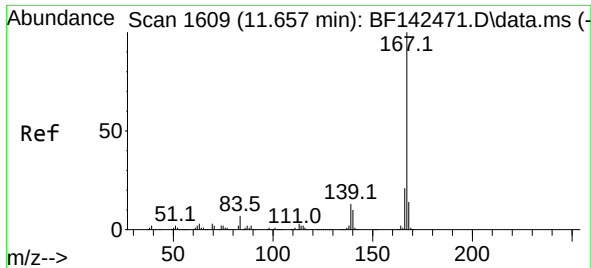
Tgt Ion:178 Resp: 588675
Ion Ratio Lower Upper
178 100
176 18.8 15.4 23.0
179 15.2 12.3 18.5



#72
Anthracene
Concen: 7.489 ng
RT: 11.498 min Scan# 1582
Delta R.T. -0.012 min
Lab File: BF142561.D
Acq: 27 May 2025 14:55

Tgt Ion:178 Resp: 131593
Ion Ratio Lower Upper
178 100
176 18.2 14.6 21.8
179 15.7 12.4 18.6

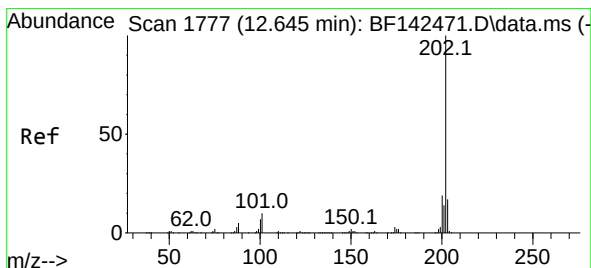
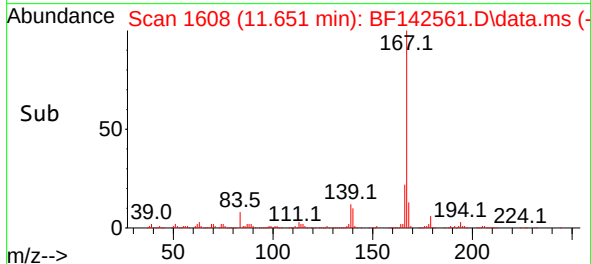
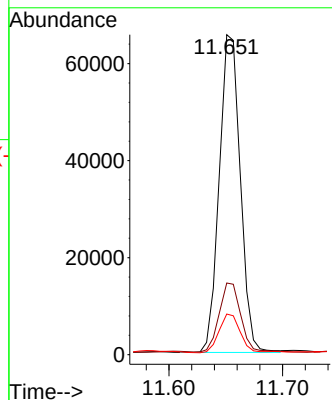
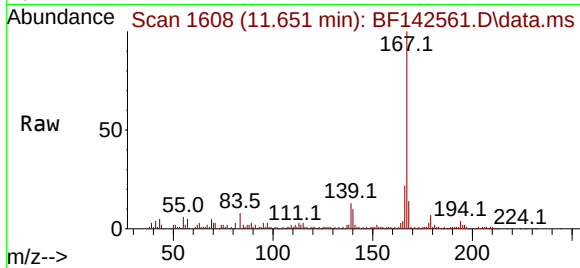




#73
 Carbazole
 Concen: 5.628 ng
 RT: 11.651 min Scan# 1608
 Delta R.T. -0.012 min
 Lab File: BF142561.D
 Acq: 27 May 2025 14:55

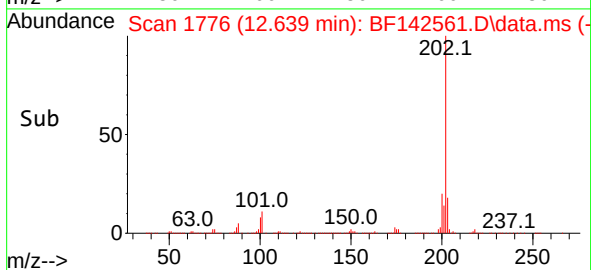
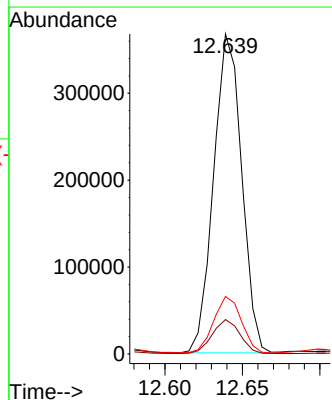
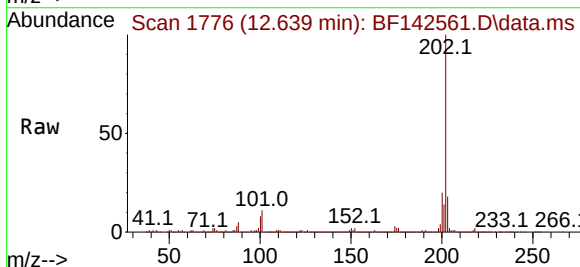
Instrument :
 BNA_F
 ClientSampleId :
 COMP-2

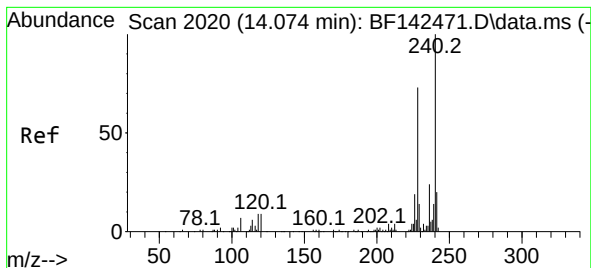
Tgt Ion:167 Resp: 84544
 Ion Ratio Lower Upper
 167 100
 166 22.4 16.9 25.3
 139 12.7 10.2 15.4



#75
 Fluoranthene
 Concen: 28.695 ng
 RT: 12.639 min Scan# 1776
 Delta R.T. -0.006 min
 Lab File: BF142561.D
 Acq: 27 May 2025 14:55

Tgt Ion:202 Resp: 461644
 Ion Ratio Lower Upper
 202 100
 101 10.7 0.0 29.6
 203 18.0 0.0 37.2





#76

Chrysene-d12

Concen: 20.000 ng

RT: 14.068 min Scan# 20

Delta R.T. -0.006 min

Lab File: BF142561.D

Acq: 27 May 2025 14:55

Instrument :

BNA_F

ClientSampleId :

COMP-2

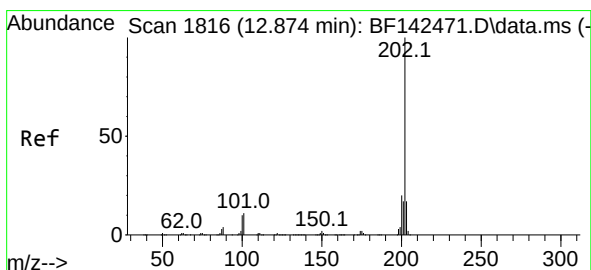
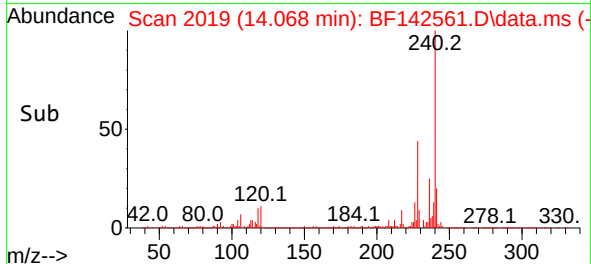
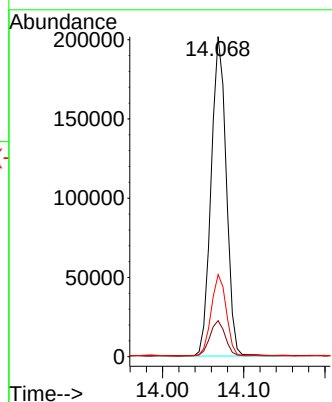
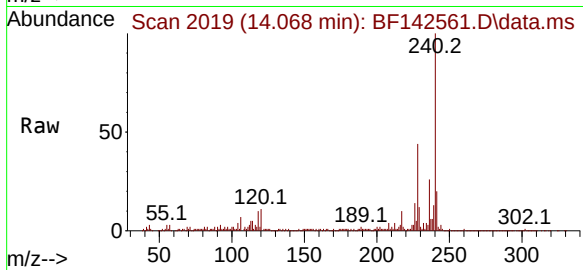
Tgt Ion:240 Resp: 259845

Ion Ratio Lower Upper

240 100

120 11.3 7.5 11.3

236 25.7 19.6 29.4



#78

Pyrene

Concen: 19.086 ng

RT: 12.868 min Scan# 1815

Delta R.T. -0.006 min

Lab File: BF142561.D

Acq: 27 May 2025 14:55

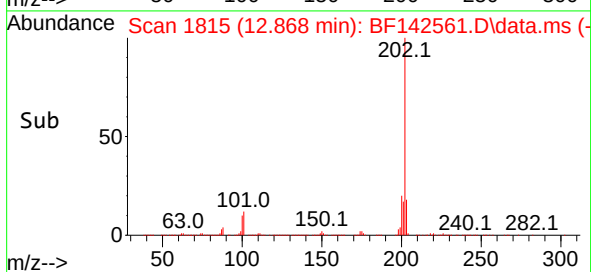
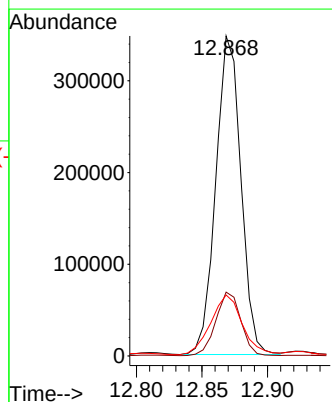
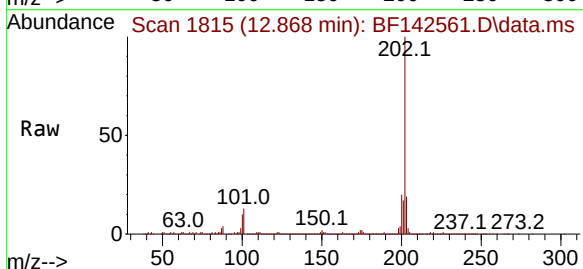
Tgt Ion:202 Resp: 462651

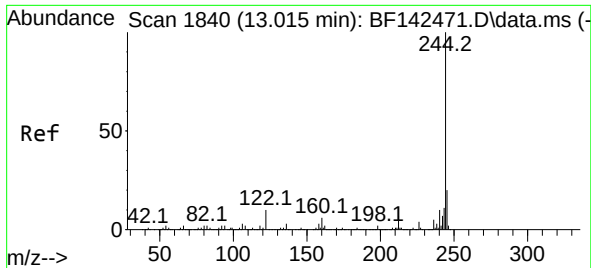
Ion Ratio Lower Upper

202 100

200 20.0 16.1 24.1

203 19.0 13.9 20.9

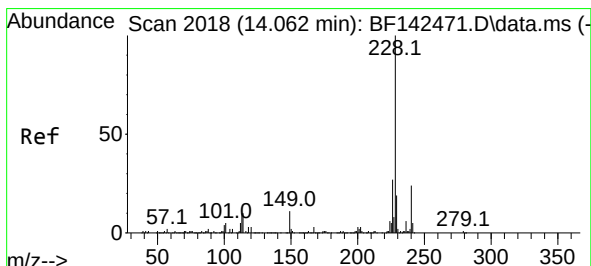
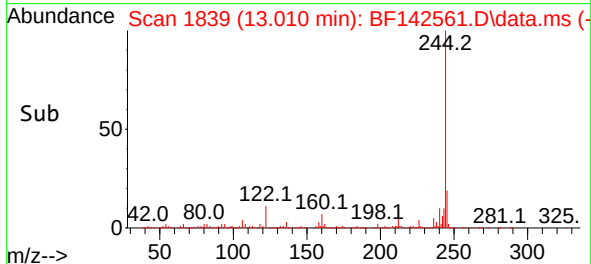
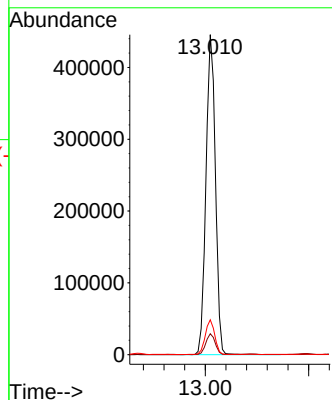
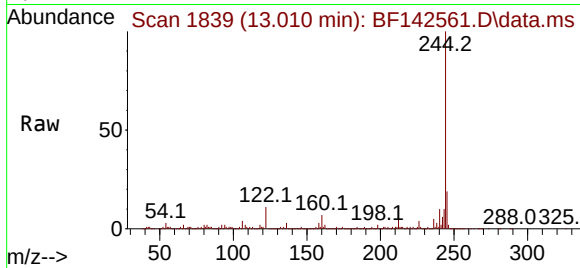




#79
 Terphenyl-d14
 Concen: 29.687 ng
 RT: 13.010 min Scan# 1840
 Delta R.T. -0.006 min
 Lab File: BF142561.D
 Acq: 27 May 2025 14:55

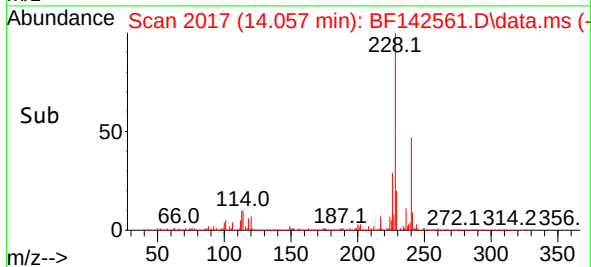
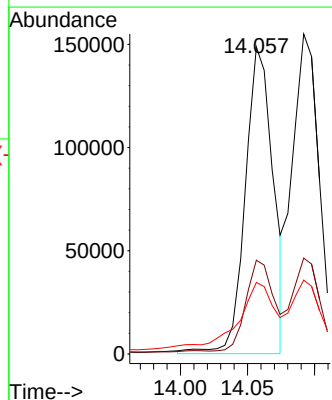
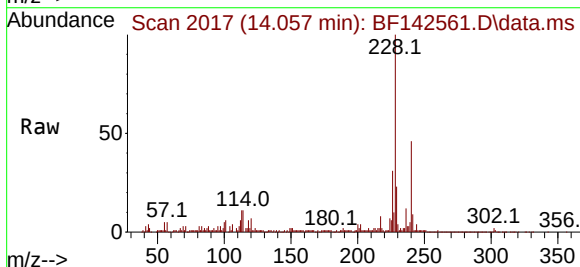
Instrument :
 BNA_F
 ClientSampleId :
 COMP-2

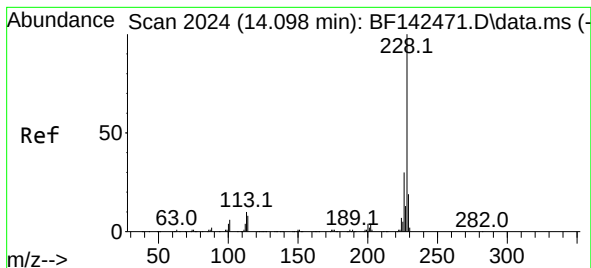
Tgt Ion:244 Resp: 564484
 Ion Ratio Lower Upper
 244 100
 212 6.6 5.3 7.9
 122 10.9 8.2 12.2



#81
 Benzo(a)anthracene
 Concen: 12.394 ng m
 RT: 14.057 min Scan# 2017
 Delta R.T. -0.006 min
 Lab File: BF142561.D
 Acq: 27 May 2025 14:55

Tgt Ion:228 Resp: 215049
 Ion Ratio Lower Upper
 228 100
 226 30.5 21.2 31.8
 229 23.3 15.5 23.3#





#83

Chrysene

Concen: 13.616 ng

RT: 14.092 min Scan# 20

Delta R.T. -0.012 min

Lab File: BF142561.D

Acq: 27 May 2025 14:55

Instrument :

BNA_F

ClientSampleId :

COMP-2

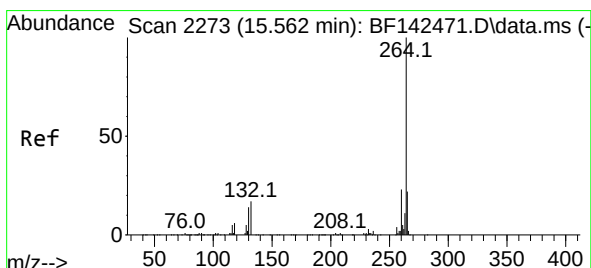
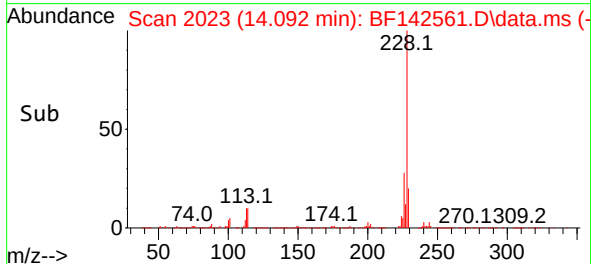
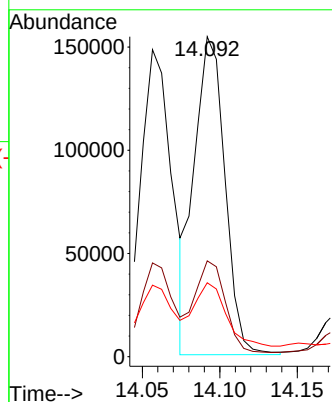
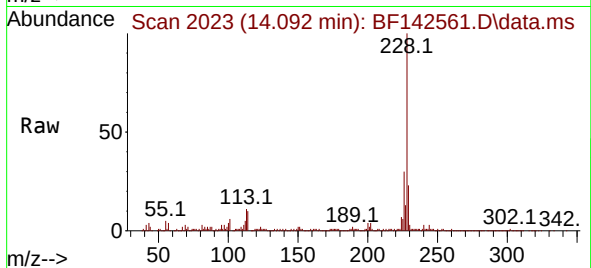
Tgt Ion:228 Resp: 212292

Ion Ratio Lower Upper

228 100

226 30.0 23.8 35.6

229 23.1 15.4 23.2



#86

Perylene-d12

Concen: 20.000 ng

RT: 15.562 min Scan# 2273

Delta R.T. -0.006 min

Lab File: BF142561.D

Acq: 27 May 2025 14:55

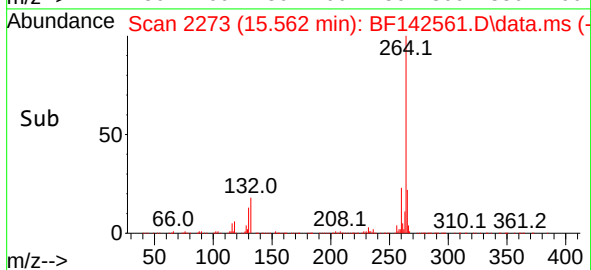
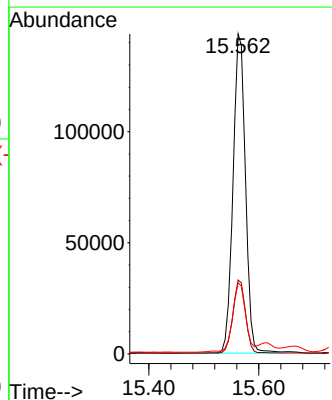
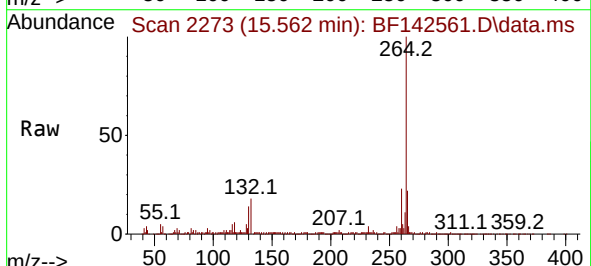
Tgt Ion:264 Resp: 226255

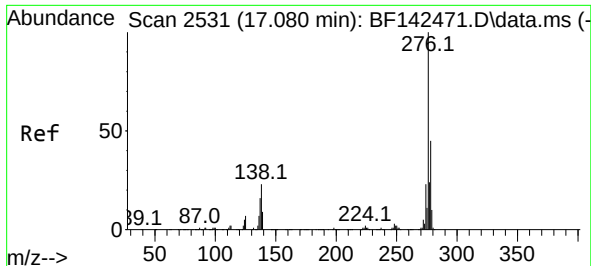
Ion Ratio Lower Upper

264 100

260 23.1 18.6 28.0

265 22.2 17.7 26.5

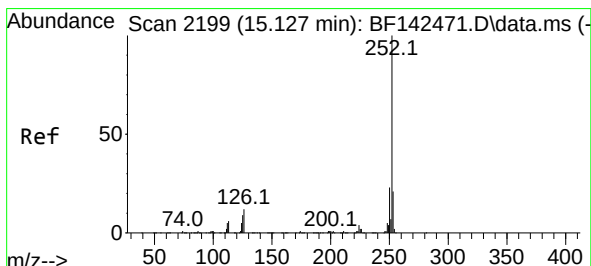
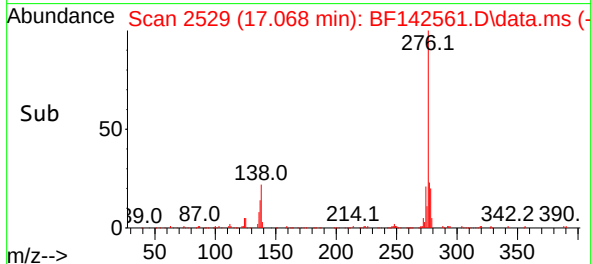
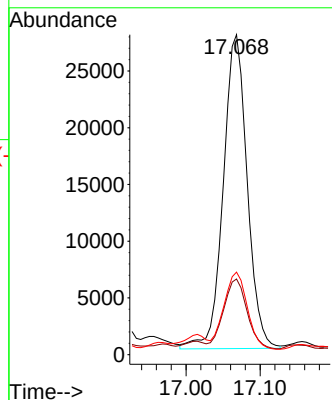
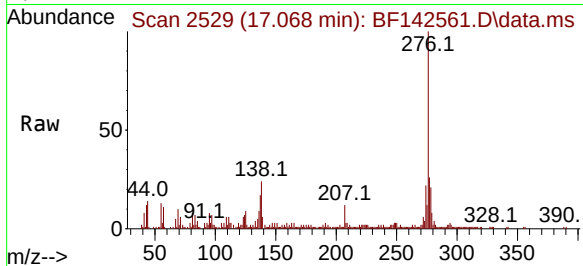




#87
 Indeno(1,2,3-cd)pyrene
 Concen: 3.661 ng
 RT: 17.068 min Scan# 2193
 Delta R.T. -0.024 min
 Lab File: BF142561.D
 Acq: 27 May 2025 14:55

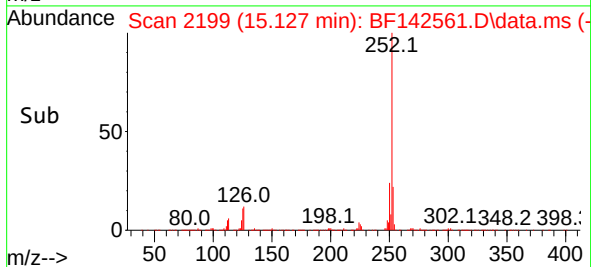
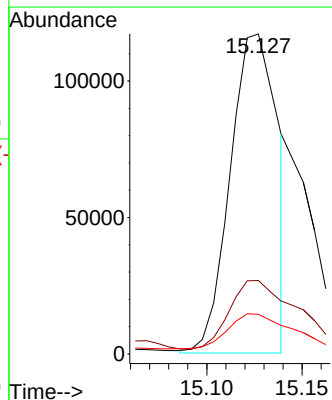
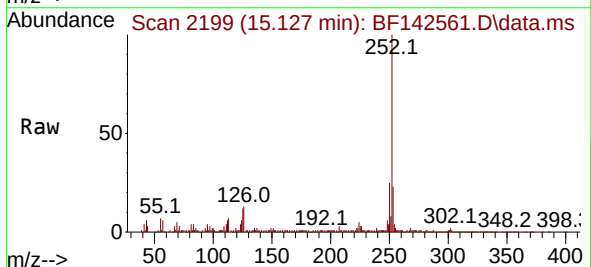
Instrument :
 BNA_F
 ClientSampleId :
 COMP-2

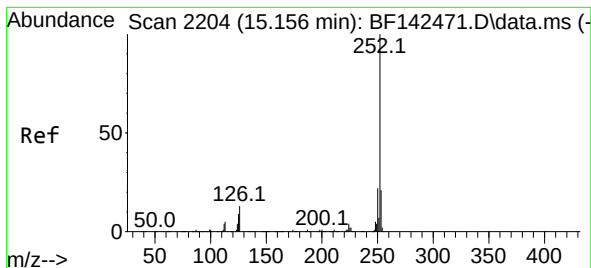
Tgt Ion:276 Resp: 62193
 Ion Ratio Lower Upper
 276 100
 138 21.8 19.9 29.9
 277 23.8 20.2 30.2



#88
 Benzo(b)fluoranthene
 Concen: 15.049 ng m
 RT: 15.127 min Scan# 2199
 Delta R.T. 0.000 min
 Lab File: BF142561.D
 Acq: 27 May 2025 14:55

Tgt Ion:252 Resp: 201515
 Ion Ratio Lower Upper
 252 100
 253 23.0 17.0 25.4
 125 12.4 7.4 11.0#





#89

Benzo(k)fluoranthene

Concen: 6.282 ng m

RT: 15.139 min Scan# 21

Delta R.T. -0.024 min

Lab File: BF142561.D

Acq: 27 May 2025 14:55

Instrument :

BNA_F

ClientSampleId :

COMP-2

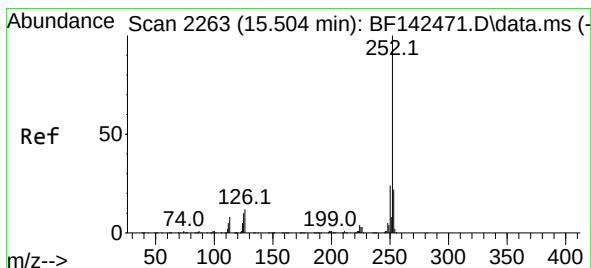
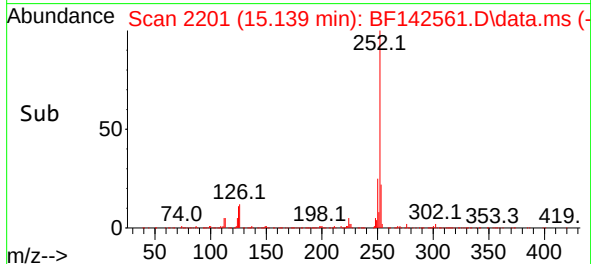
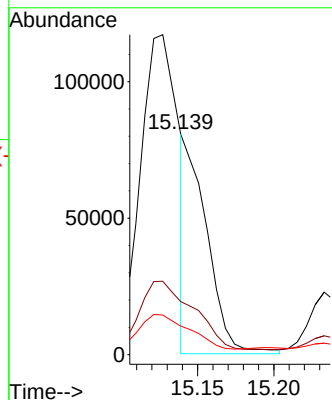
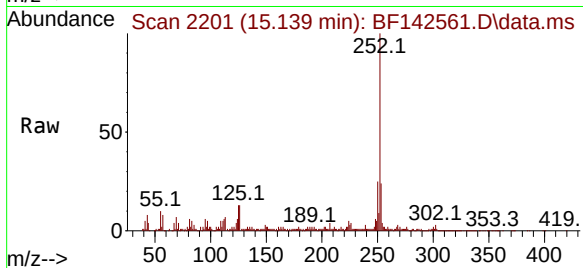
Tgt Ion:252 Resp: 78790

Ion Ratio Lower Upper

252 100

253 24.1 17.0 25.4

125 13.0 7.3 10.9#



#90

Benzo(a)pyrene

Concen: 11.282 ng

RT: 15.498 min Scan# 2262

Delta R.T. -0.012 min

Lab File: BF142561.D

Acq: 27 May 2025 14:55

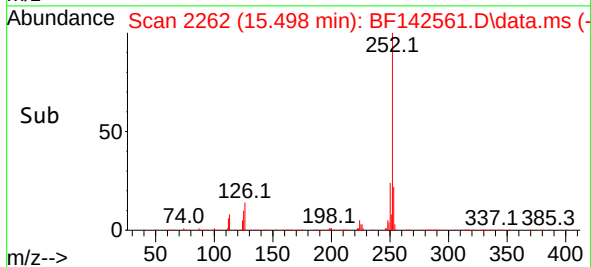
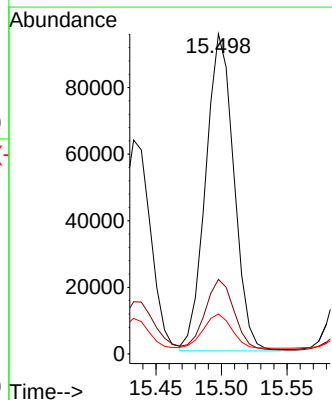
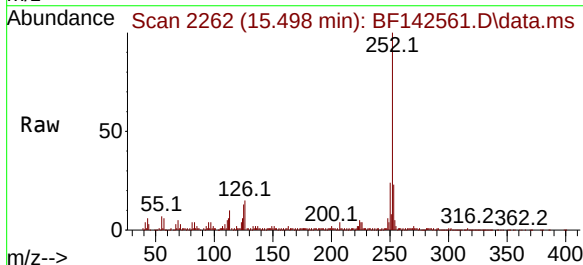
Tgt Ion:252 Resp: 142398

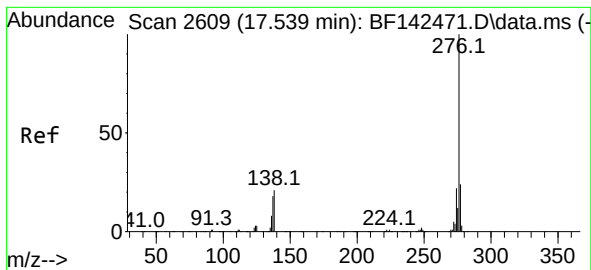
Ion Ratio Lower Upper

252 100

253 23.3 17.4 26.0

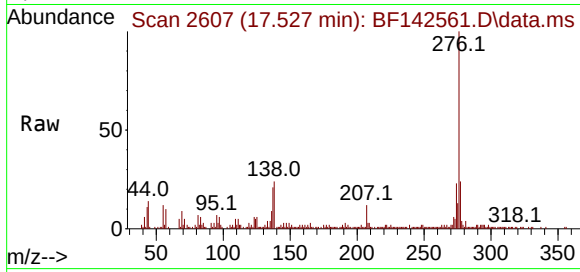
125 12.5 7.9 11.9#





#92
 Benzo(g,h,i)perylene
 Concen: 4.451 ng
 RT: 17.527 min Scan# 20
 Delta R.T. -0.029 min
 Lab File: BF142561.D
 Acq: 27 May 2025 14:55

Instrument :
 BNA_F
 ClientSampleId :
 COMP-2



Tgt Ion:	276	Resp:	61337
Ion Ratio	Lower	Upper	
276	100		
277	23.7	19.2	28.8
138	23.7	16.8	25.2

