

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF070925\
 Data File : BF143066.D
 Acq On : 09 Jul 2025 20:04
 Operator : RC/JU
 Sample : Q2527-01 5X
 Misc :
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 AR520-0015

Quant Time: Jul 10 00:57:41 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF061925.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Jun 24 05:28:21 2025
 Response via : Initial Calibration

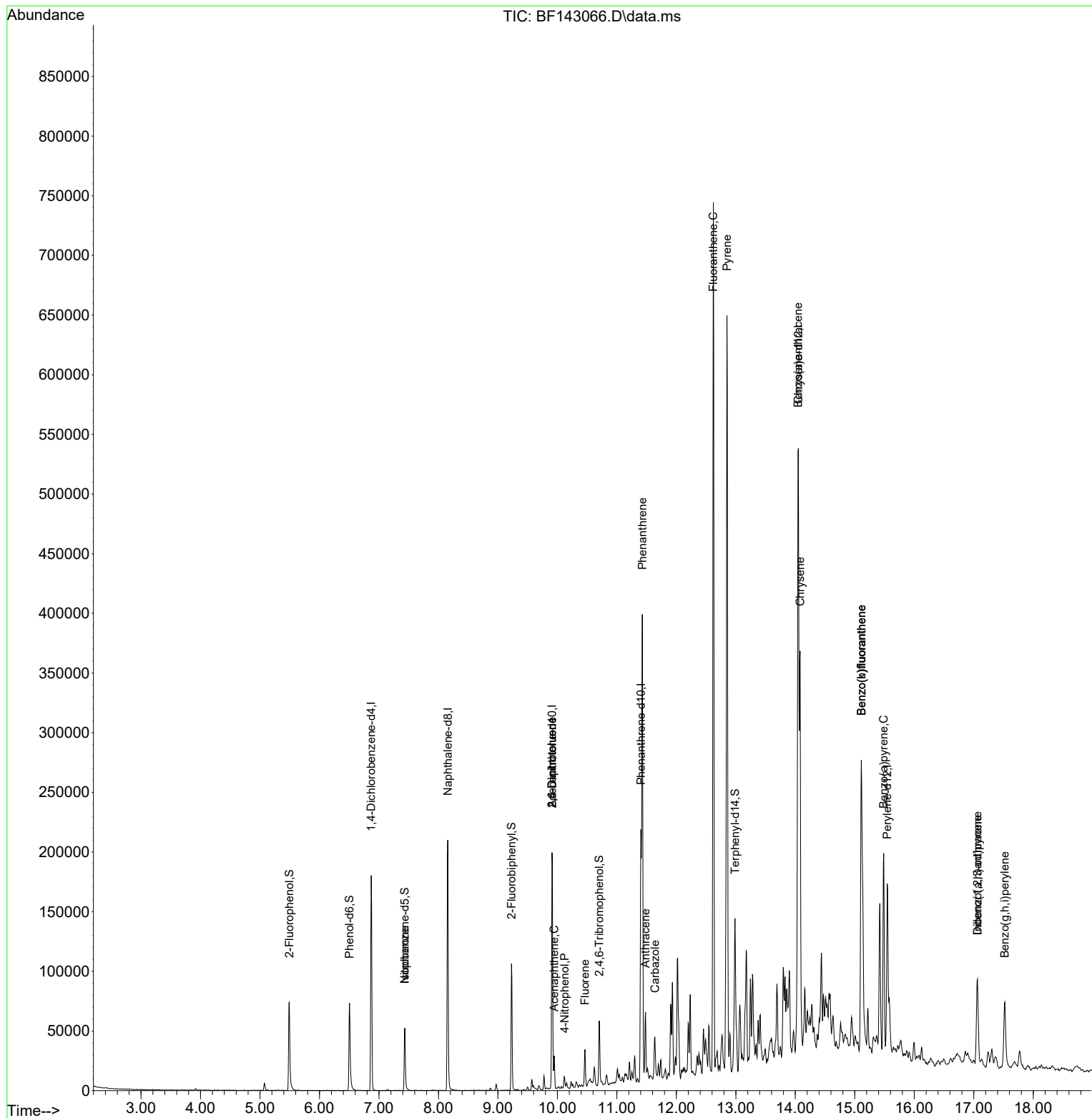
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.869	152	40202	20.000	ng	-0.01
21) Naphthalene-d8	8.157	136	141905	20.000	ng	-0.01
39) Acenaphthene-d10	9.910	164	62014	20.000	ng	-0.01
64) Phenanthrene-d10	11.404	188	105750	20.000	ng	0.00
76) Chrysene-d12	14.051	240	115666	20.000	ng	0.00
86) Perylene-d12	15.545	264	81456	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.493	112	37248	15.426	ng	0.00
7) Phenol-d6	6.504	99	42434	14.895	ng	0.00
23) Nitrobenzene-d5	7.434	82	25864	9.997	ng	-0.01
42) 2,4,6-Tribromophenol	10.704	330	8255	12.935	ng	-0.01
45) 2-Fluorobiphenyl	9.228	172	51602	10.931	ng	-0.02
79) Terphenyl-d14	12.986	244	54280	6.484	ng	-0.01
Target Compounds						
25) Isophorone	7.434	82	25864	6.232	ng	# 62
51) 2,6-Dinitrotoluene	9.910	165	8503	9.645	ng	# 26
52) Acenaphthene	9.945	154	8408	2.277	ng	97
56) 4-Nitrophenol	10.122	139	1804	2.715	ng	# 16
57) 2,4-Dinitrotoluene	9.910	165	8503	7.262	ng	# 26
58) Fluorene	10.463	166	12634	3.055	ng	98
71) Phenanthrene	11.428	178	207152	36.162	ng	100
72) Anthracene	11.480	178	34318	5.841	ng	98
73) Carbazole	11.639	167	17764	3.504	ng	96
75) Fluoranthene	12.622	202	417029	76.707	ng	99
78) Pyrene	12.851	202	374859	34.575	ng	98
81) Benzo(a)anthracene	14.045	228	208395	26.707	ng	99
83) Chrysene	14.080	228	167052	23.992	ng	97
87) Indeno(1,2,3-cd)pyrene	17.062	276	51112	8.238	ng	96
88) Benzo(b)fluoranthene	15.110	252	218108	46.274	ng	99
89) Benzo(k)fluoranthene	15.110	252	218108	49.460	ng	98
90) Benzo(a)pyrene	15.486	252	102595	22.531	ng	98
91) Dibenzo(a,h)anthracene	17.062	278	13719	2.721	ng	94
92) Benzo(g,h,i)perylene	17.521	276	49254	9.798	ng	98

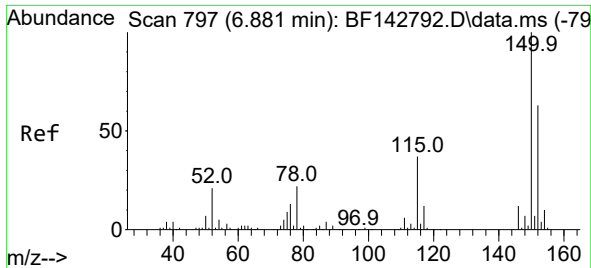
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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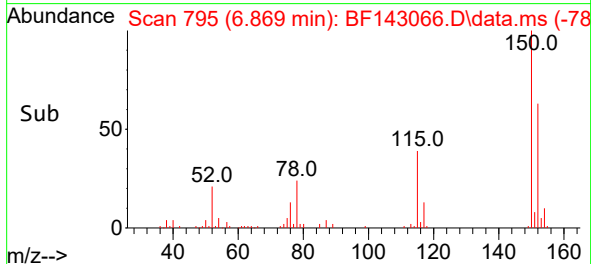
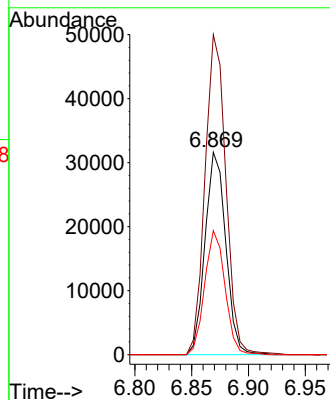
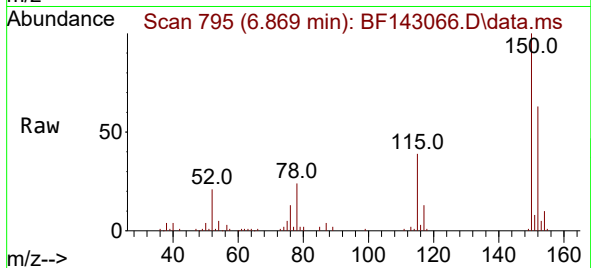




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.869 min Scan# 797
Delta R.T. -0.012 min
Lab File: BF143066.D
Acq: 09 Jul 2025 20:04

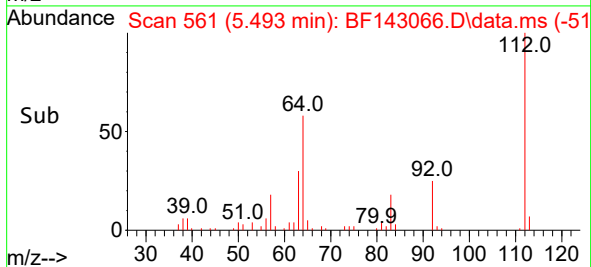
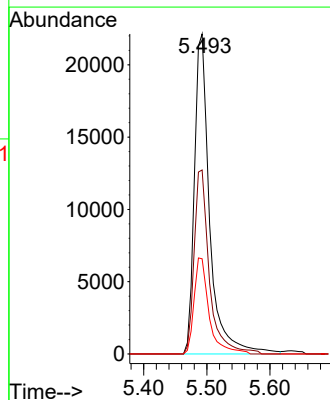
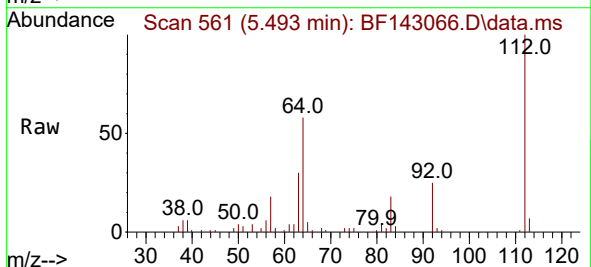
Instrument :
BNA_F
ClientSampleId :
AR520-0015

Tgt Ion:152 Resp: 40202
Ion Ratio Lower Upper
152 100
150 158.1 127.2 190.8
115 61.3 46.6 69.8



#5
2-Fluorophenol
Concen: 15.426 ng
RT: 5.493 min Scan# 561
Delta R.T. 0.001 min
Lab File: BF143066.D
Acq: 09 Jul 2025 20:04

Tgt Ion:112 Resp: 37248
Ion Ratio Lower Upper
112 100
64 57.5 48.2 72.2
63 29.8 25.7 38.5

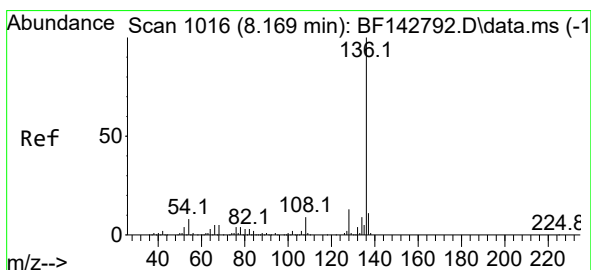
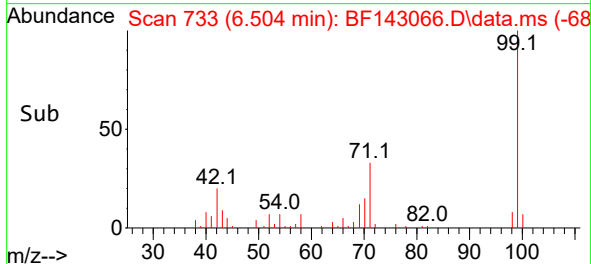
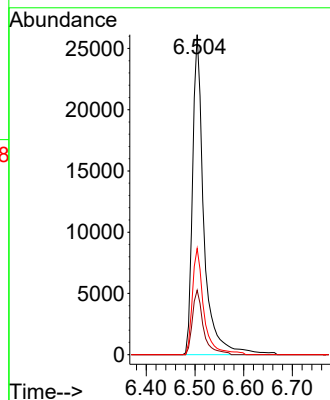
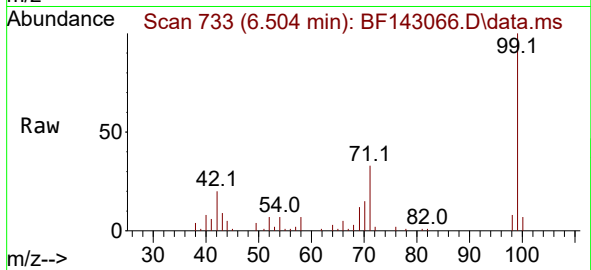




#7
Phenol-d6
Concen: 14.895 ng
RT: 6.504 min Scan# 71
Delta R.T. -0.006 min
Lab File: BF143066.D
Acq: 09 Jul 2025 20:04

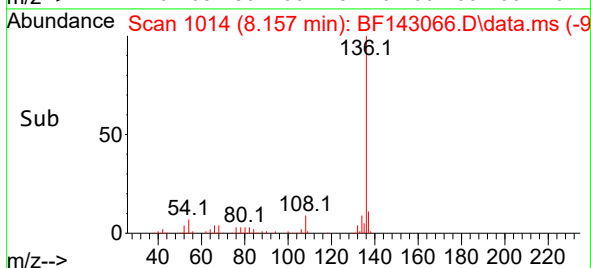
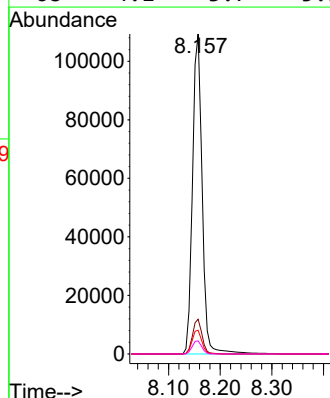
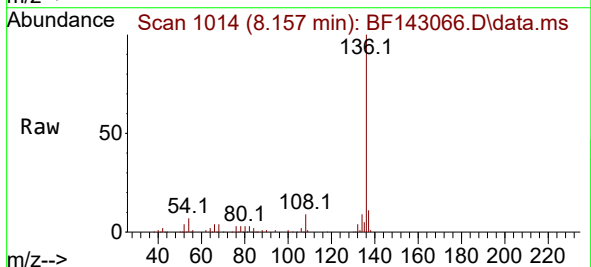
Instrument :
BNA_F
ClientSampleId :
AR520-0015

Tgt Ion: 99 Resp: 42434
Ion Ratio Lower Upper
99 100
42 20.2 15.9 23.9
71 33.2 27.8 41.8



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.157 min Scan# 1014
Delta R.T. -0.012 min
Lab File: BF143066.D
Acq: 09 Jul 2025 20:04

Tgt Ion: 136 Resp: 141905
Ion Ratio Lower Upper
136 100
137 10.9 8.4 12.6
54 7.4 6.3 9.5
68 4.1 3.7 5.5

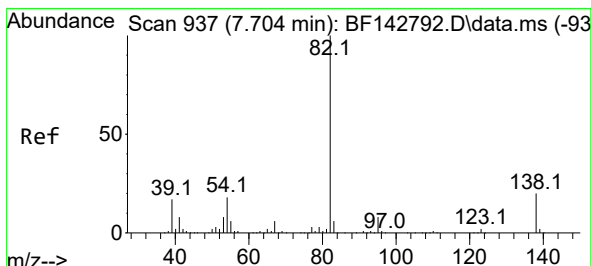
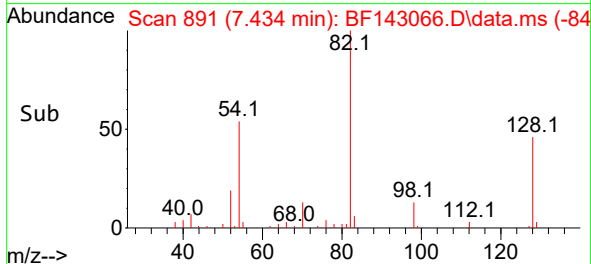
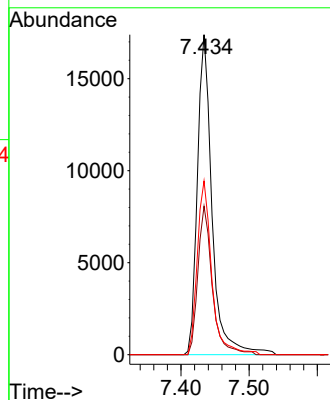
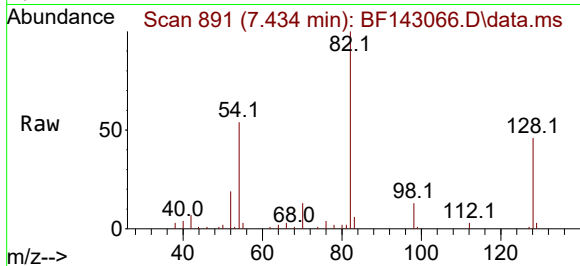




#23
Nitrobenzene-d5
Concen: 9.997 ng
RT: 7.434 min Scan# 891
Delta R.T. -0.011 min
Lab File: BF143066.D
Acq: 09 Jul 2025 20:04

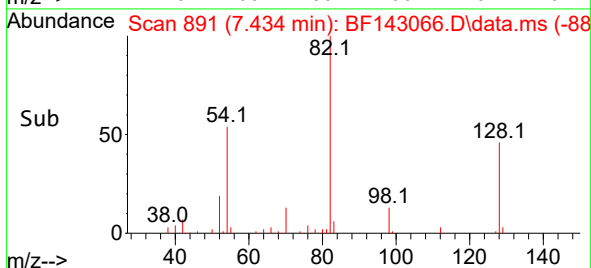
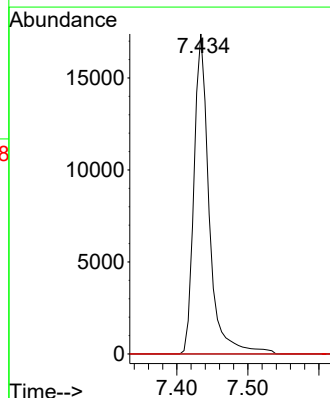
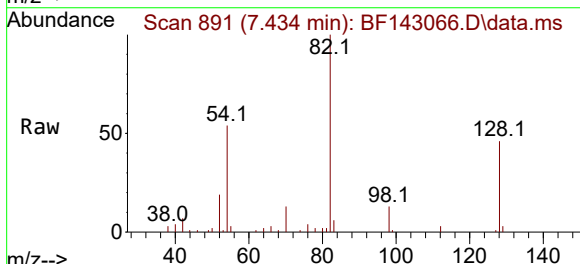
Instrument :
BNA_F
ClientSampleId :
AR520-0015

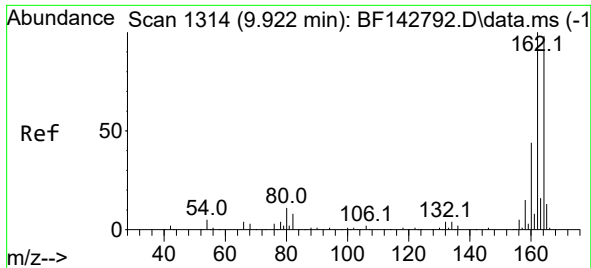
Tgt Ion: 82 Resp: 25864
Ion Ratio Lower Upper
82 100
128 46.4 37.7 56.5
54 54.3 45.7 68.5



#25
Isophorone
Concen: 6.232 ng
RT: 7.434 min Scan# 891
Delta R.T. -0.270 min
Lab File: BF143066.D
Acq: 09 Jul 2025 20:04

Tgt Ion: 82 Resp: 25864
Ion Ratio Lower Upper
82 100
95 0.0 6.2 9.2#
138 0.0 16.2 24.4#

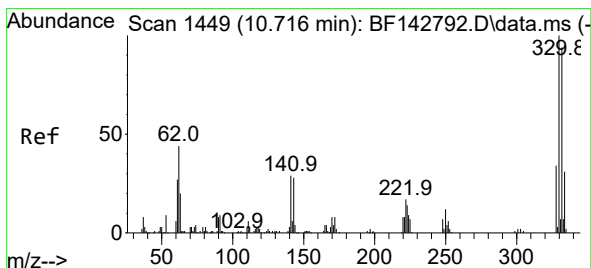
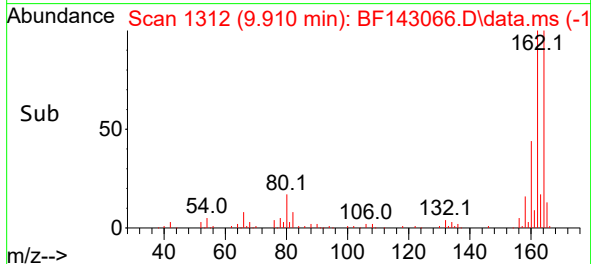
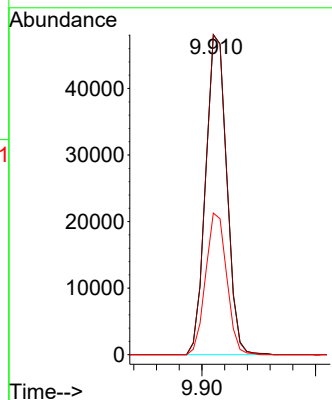
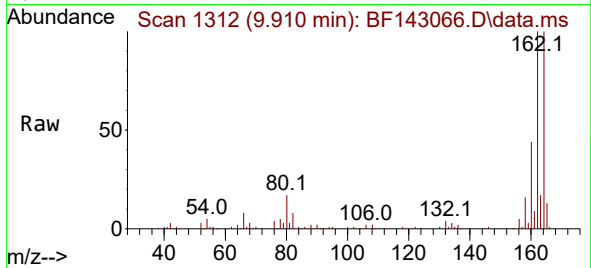




#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.910 min Scan# 11
Delta R.T. -0.012 min
Lab File: BF143066.D
Acq: 09 Jul 2025 20:04

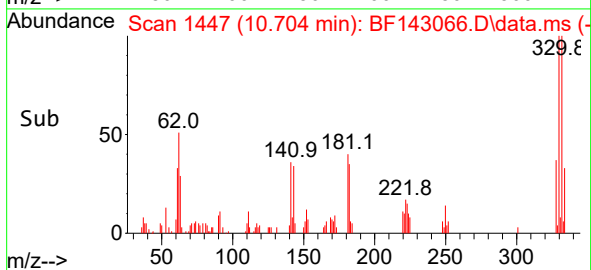
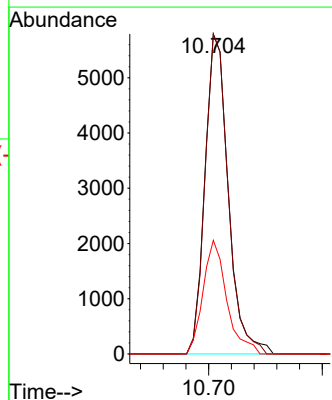
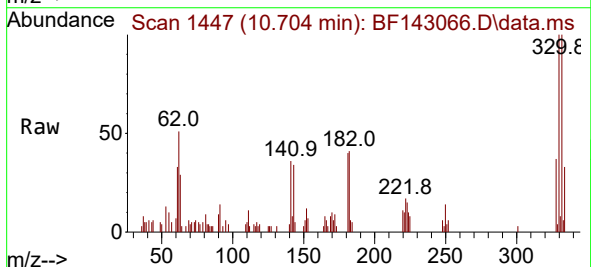
Instrument :
BNA_F
ClientSampleId :
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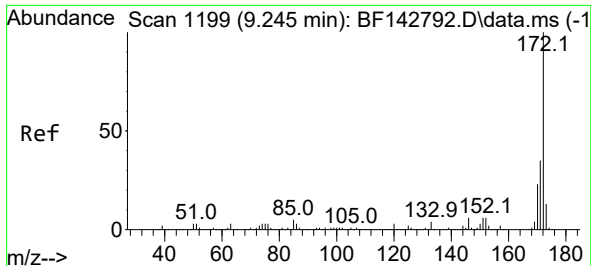
Tgt Ion:164 Resp: 62014
Ion Ratio Lower Upper
164 100
162 100.0 81.8 122.8
160 44.3 36.0 54.0



#42
2,4,6-Tribromophenol
Concen: 12.935 ng
RT: 10.704 min Scan# 1447
Delta R.T. -0.012 min
Lab File: BF143066.D
Acq: 09 Jul 2025 20:04

Tgt Ion:330 Resp: 8255
Ion Ratio Lower Upper
330 100
332 98.3 75.0 112.6
141 36.1 25.3 37.9





#45

2-Fluorobiphenyl

Concen: 10.931 ng

RT: 9.228 min Scan# 1196

Delta R.T. -0.017 min

Lab File: BF143066.D

Acq: 09 Jul 2025 20:04

Instrument :

BNA_F

ClientSampleId :

AR520-0015

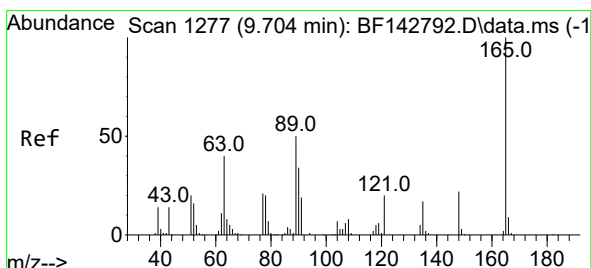
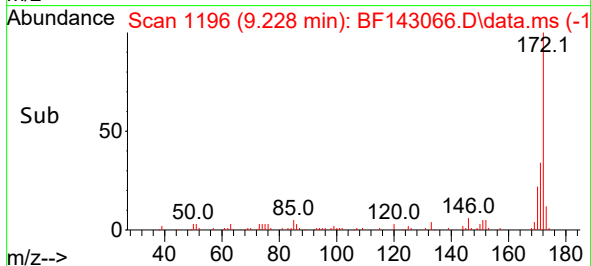
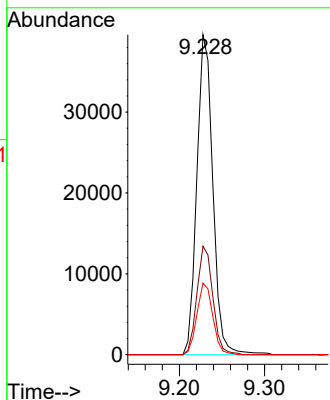
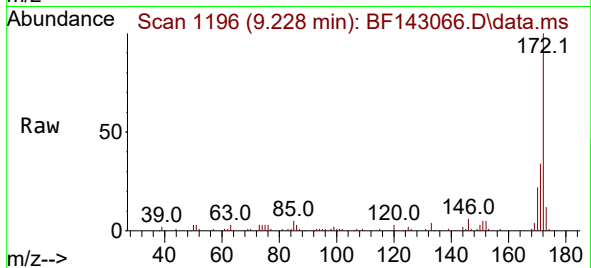
Tgt Ion:172 Resp: 51602

Ion Ratio Lower Upper

172 100

171 33.9 28.2 42.4

170 22.4 18.5 27.7



#51

2,6-Dinitrotoluene

Concen: 9.645 ng

RT: 9.910 min Scan# 1312

Delta R.T. 0.206 min

Lab File: BF143066.D

Acq: 09 Jul 2025 20:04

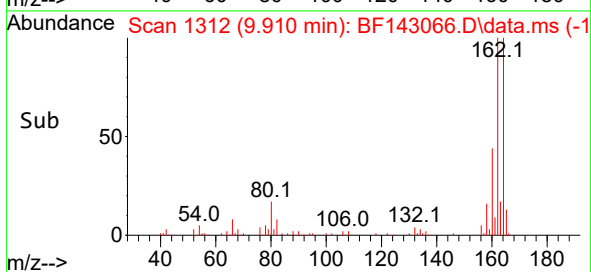
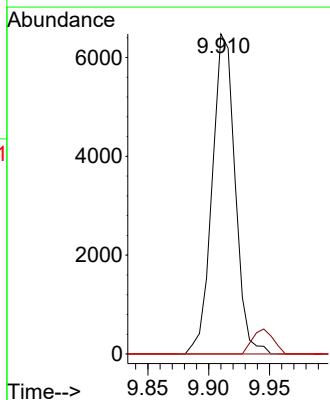
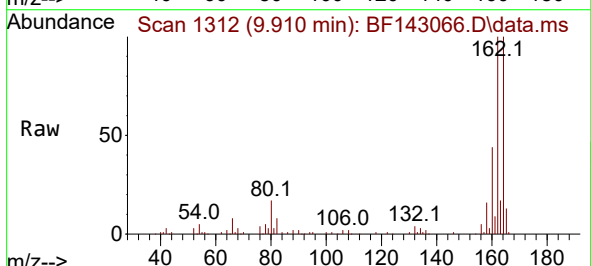
Tgt Ion:165 Resp: 8503

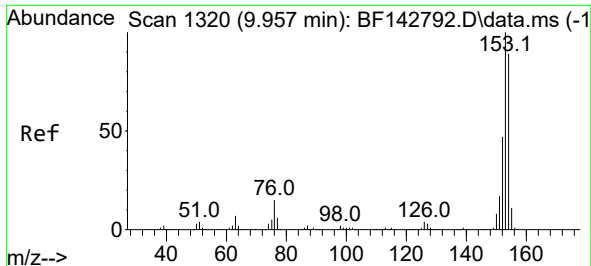
Ion Ratio Lower Upper

165 100

63 0.0 44.2 66.4#

89 0.0 39.8 59.8#

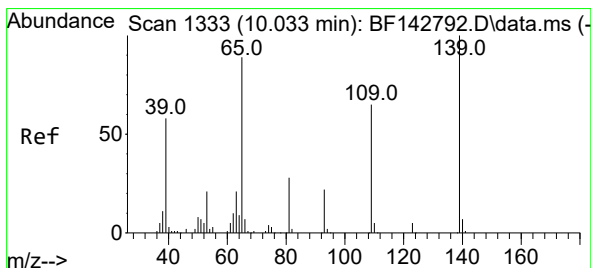
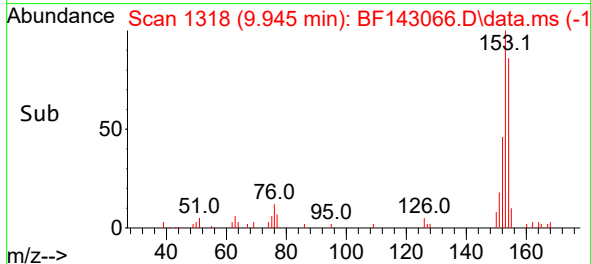
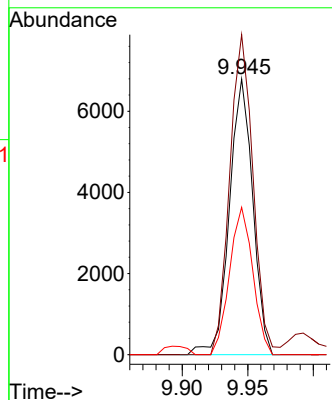
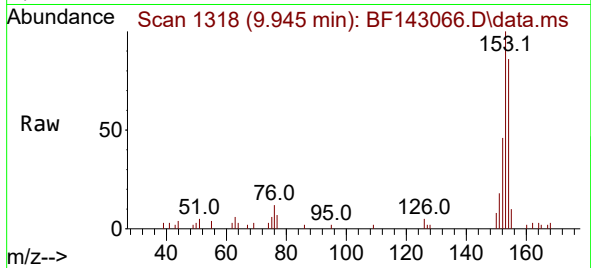




#52
Acenaphthene
Concen: 2.277 ng
RT: 9.945 min Scan# 11
Delta R.T. -0.012 min
Lab File: BF143066.D
Acq: 09 Jul 2025 20:04

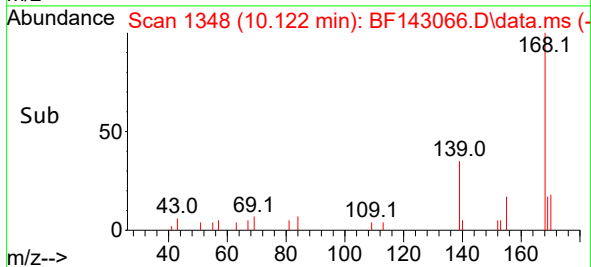
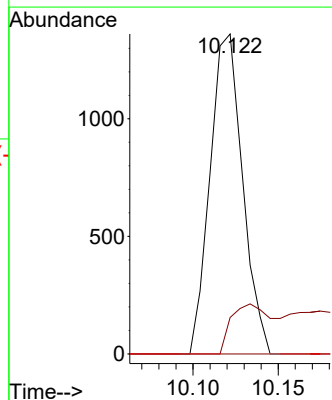
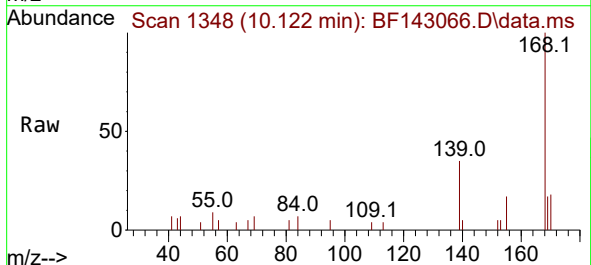
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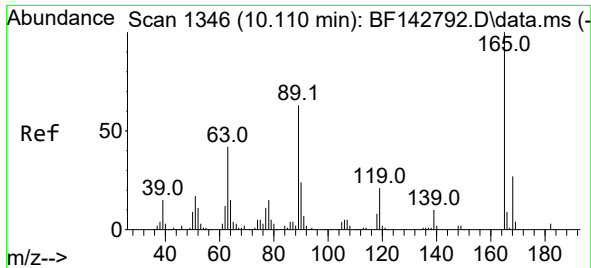
Tgt Ion:154 Resp: 8408
Ion Ratio Lower Upper
154 100
153 116.1 90.0 135.0
152 53.5 41.9 62.9



#56
4-Nitrophenol
Concen: 2.715 ng
RT: 10.122 min Scan# 1348
Delta R.T. 0.088 min
Lab File: BF143066.D
Acq: 09 Jul 2025 20:04

Tgt Ion:139 Resp: 1804
Ion Ratio Lower Upper
139 100
109 11.4 44.7 84.7#
65 0.0 69.8 109.8#

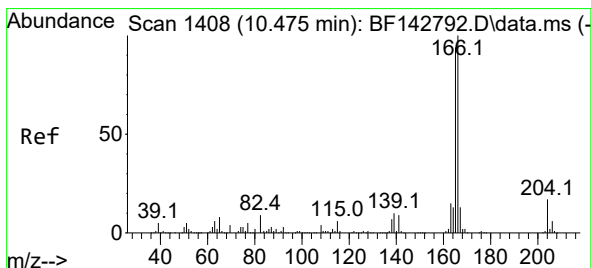
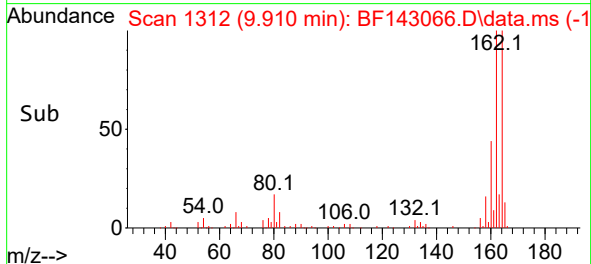
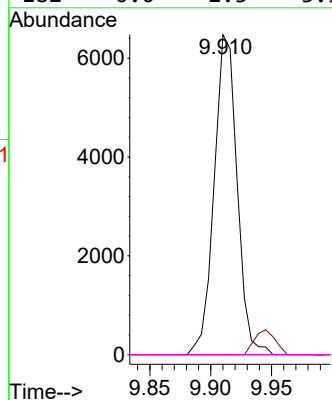
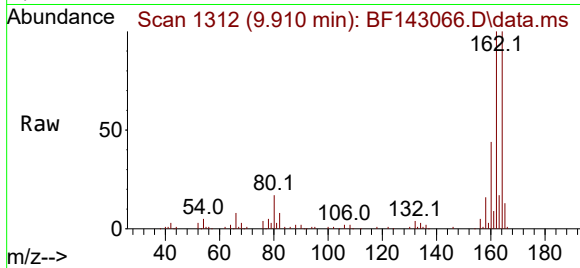




#57
2,4-Dinitrotoluene
Concen: 7.262 ng
RT: 9.910 min Scan# 11
Delta R.T. -0.200 min
Lab File: BF143066.D
Acq: 09 Jul 2025 20:04

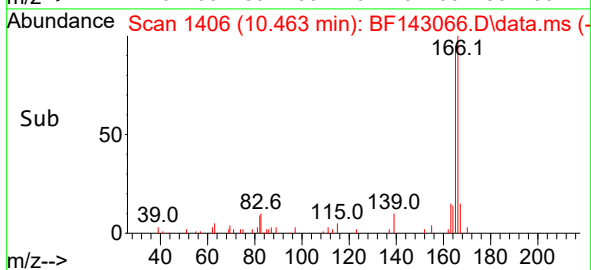
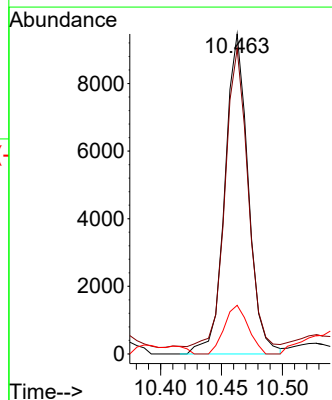
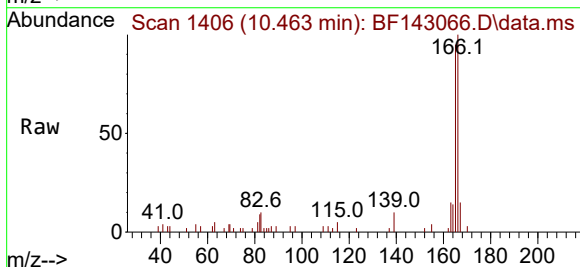
Instrument :
BNA_F
ClientSampleId :
AR520-0015

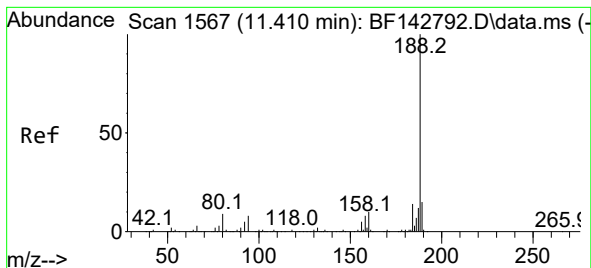
Tgt Ion:165 Resp: 8503
Ion Ratio Lower Upper
165 100
63 0.0 33.9 50.9#
89 0.0 50.6 75.8#
182 0.0 2.3 3.5#



#58
Fluorene
Concen: 3.055 ng
RT: 10.463 min Scan# 1406
Delta R.T. -0.012 min
Lab File: BF143066.D
Acq: 09 Jul 2025 20:04

Tgt Ion:166 Resp: 12634
Ion Ratio Lower Upper
166 100
165 95.3 75.2 112.8
167 15.2 10.6 15.8





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.404 min Scan# 1

Delta R.T. -0.006 min

Lab File: BF143066.D

Acq: 09 Jul 2025 20:04

Instrument :

BNA_F

ClientSampleId :

AR520-0015

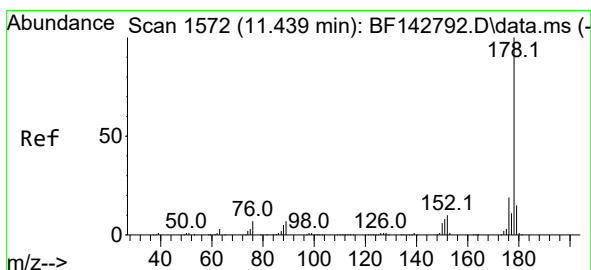
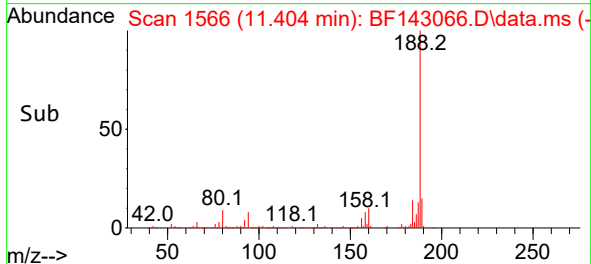
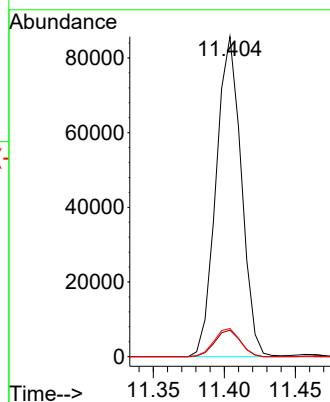
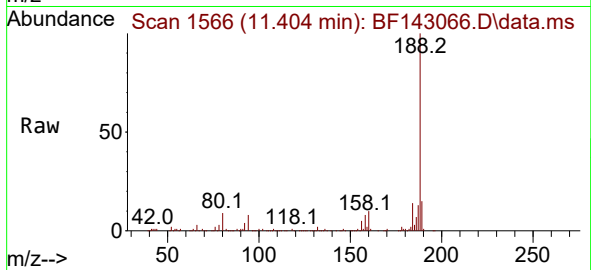
Tgt Ion:188 Resp: 105750

Ion Ratio Lower Upper

188 100

94 8.3 6.7 10.1

80 8.8 6.9 10.3



#71

Phenanthrene

Concen: 36.162 ng

RT: 11.428 min Scan# 1570

Delta R.T. -0.012 min

Lab File: BF143066.D

Acq: 09 Jul 2025 20:04

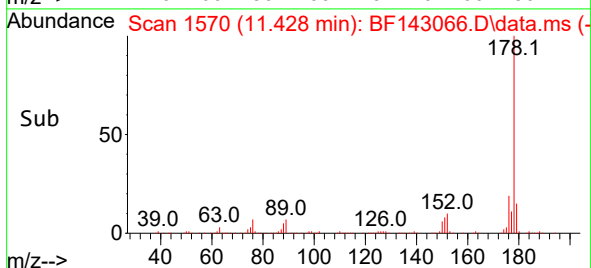
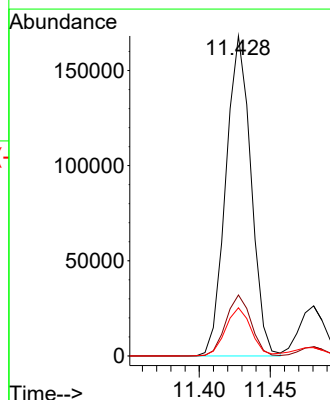
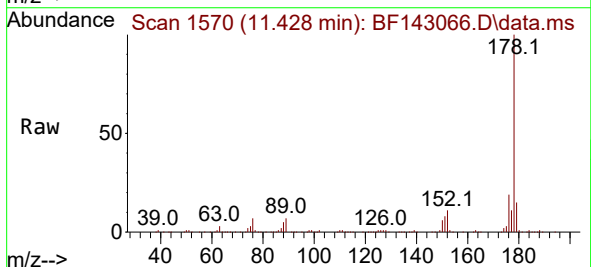
Tgt Ion:178 Resp: 207152

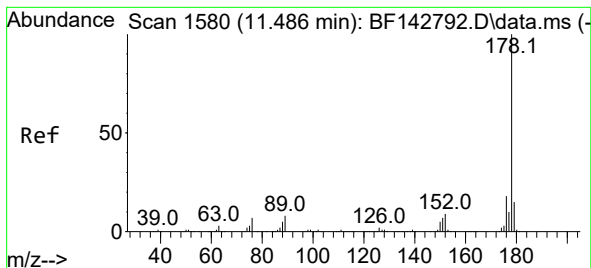
Ion Ratio Lower Upper

178 100

176 19.1 15.1 22.7

179 15.1 12.0 18.0





#72

Anthracene

Concen: 5.841 ng

RT: 11.480 min Scan# 11

Delta R.T. -0.006 min

Lab File: BF143066.D

Acq: 09 Jul 2025 20:04

Instrument :

BNA_F

ClientSampleId :

AR520-0015

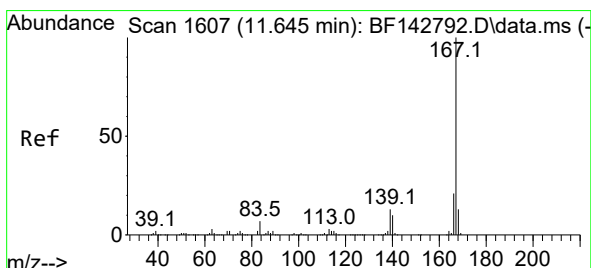
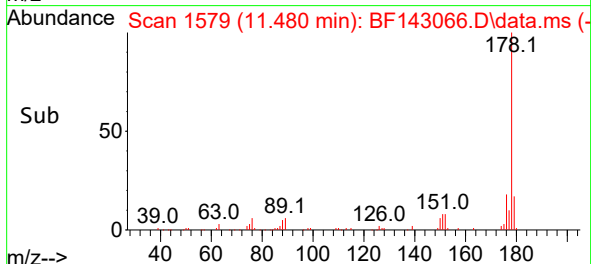
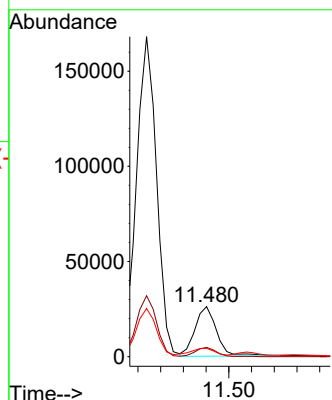
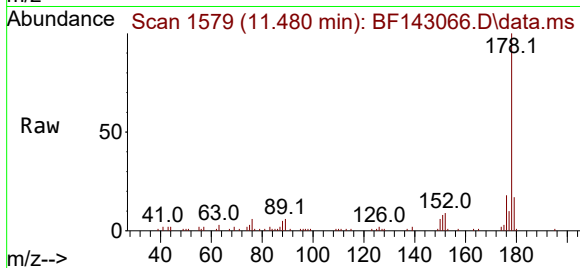
Tgt Ion:178 Resp: 34318

Ion Ratio Lower Upper

178 100

176 18.4 14.6 21.8

179 16.7 12.4 18.6



#73

Carbazole

Concen: 3.504 ng

RT: 11.639 min Scan# 1606

Delta R.T. -0.006 min

Lab File: BF143066.D

Acq: 09 Jul 2025 20:04

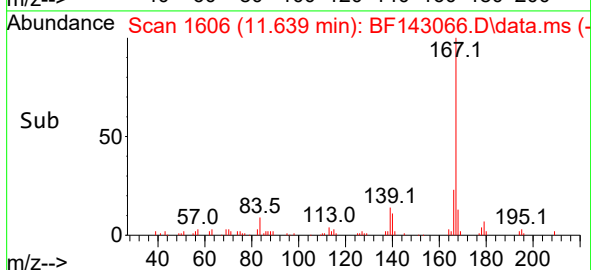
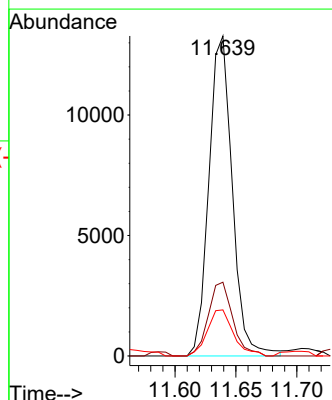
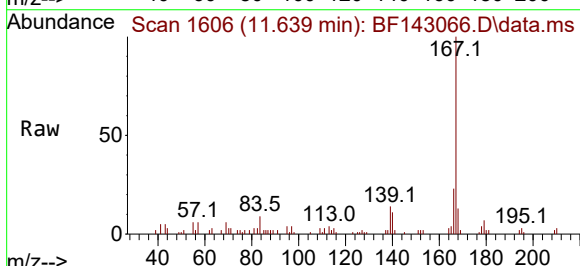
Tgt Ion:167 Resp: 17764

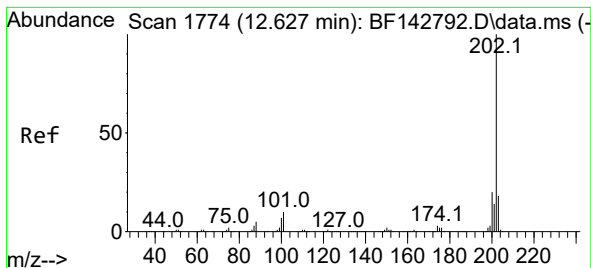
Ion Ratio Lower Upper

167 100

166 23.0 17.0 25.4

139 14.4 10.2 15.2





#75

Fluoranthene

Concen: 76.707 ng

RT: 12.622 min Scan# 11

Delta R.T. -0.006 min

Lab File: BF143066.D

Acq: 09 Jul 2025 20:04

Instrument :

BNA_F

ClientSampleId :

AR520-0015

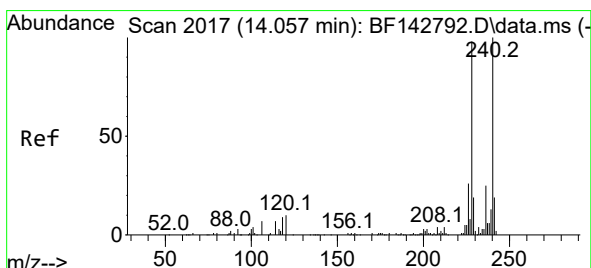
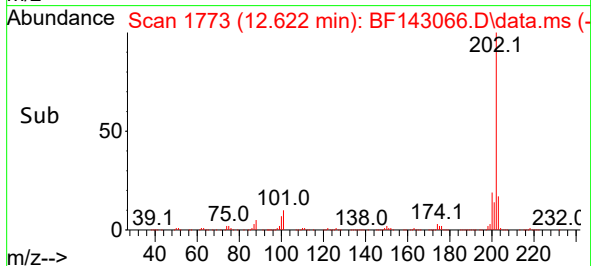
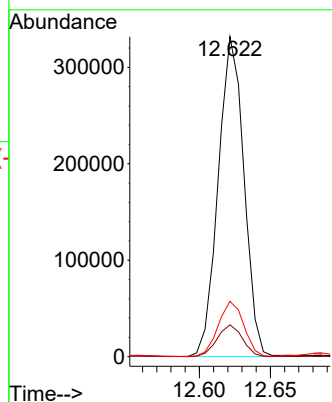
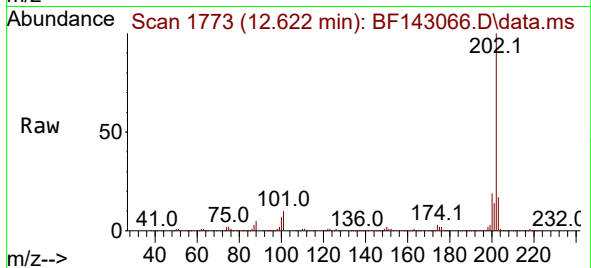
Tgt Ion:202 Resp: 417029

Ion Ratio Lower Upper

202 100

101 10.0 0.0 29.7

203 17.3 0.0 37.5



#76

Chrysene-d12

Concen: 20.000 ng

RT: 14.051 min Scan# 2016

Delta R.T. -0.006 min

Lab File: BF143066.D

Acq: 09 Jul 2025 20:04

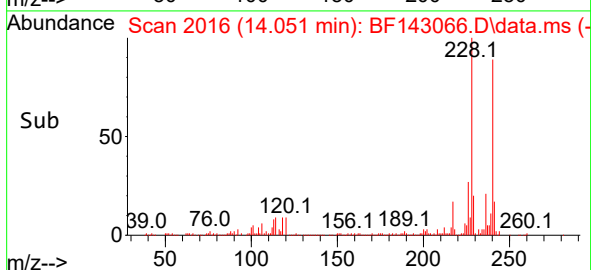
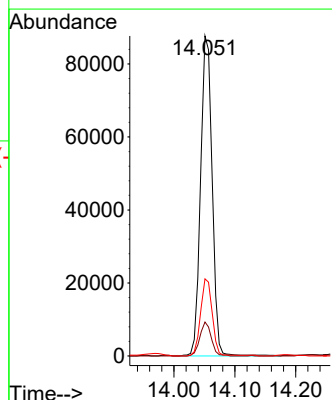
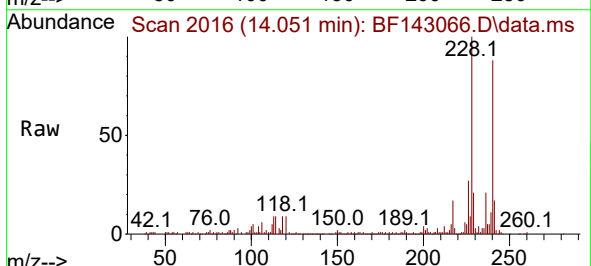
Tgt Ion:240 Resp: 115666

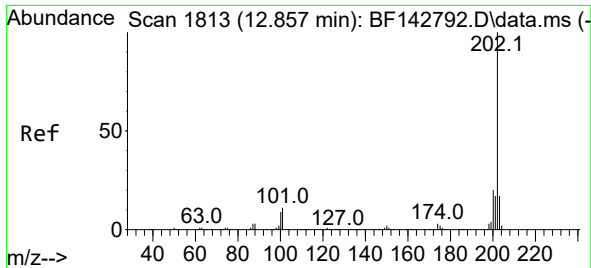
Ion Ratio Lower Upper

240 100

120 10.6 8.2 12.2

236 24.1 19.8 29.8

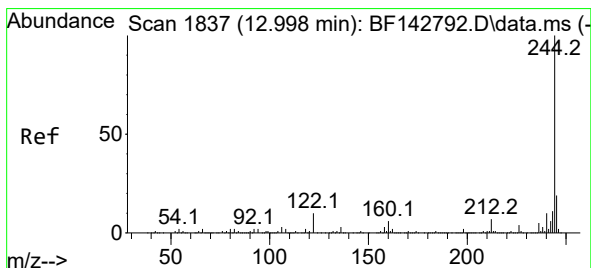
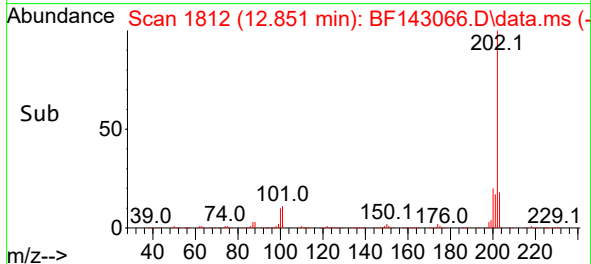
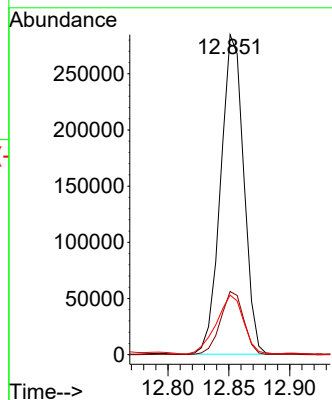
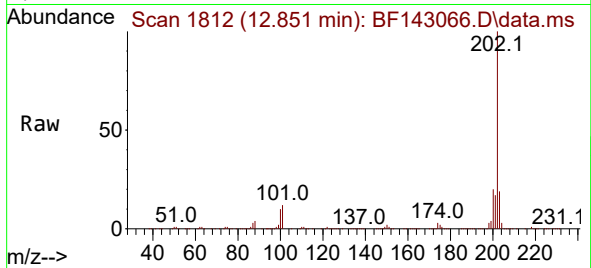




#78
 Pyrene
 Concen: 34.575 ng
 RT: 12.851 min Scan# 1812
 Delta R.T. -0.006 min
 Lab File: BF143066.D
 Acq: 09 Jul 2025 20:04

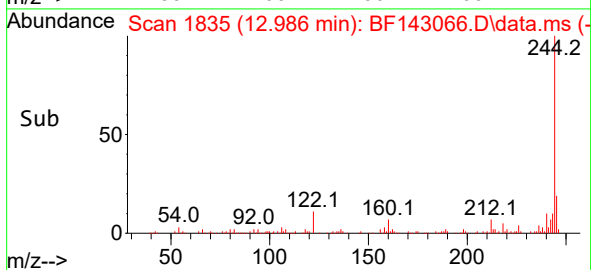
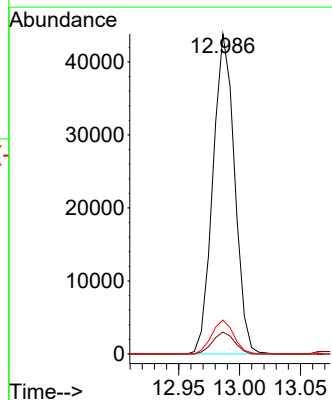
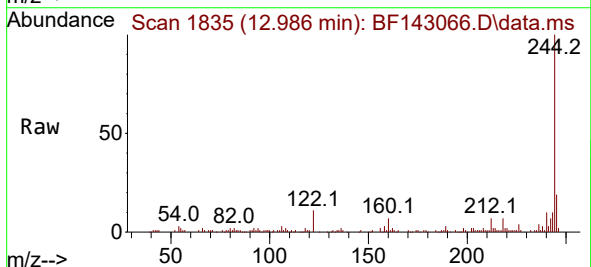
Instrument :
 BNA_F
 ClientSampleId :
 AR520-0015

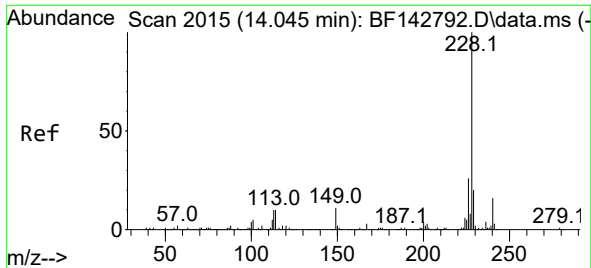
Tgt Ion:202 Resp: 374859
 Ion Ratio Lower Upper
 202 100
 200 19.8 15.7 23.5
 203 18.6 13.8 20.6



#79
 Terphenyl-d14
 Concen: 6.484 ng
 RT: 12.986 min Scan# 1835
 Delta R.T. -0.012 min
 Lab File: BF143066.D
 Acq: 09 Jul 2025 20:04

Tgt Ion:244 Resp: 54280
 Ion Ratio Lower Upper
 244 100
 212 6.9 5.4 8.0
 122 10.6 8.2 12.2

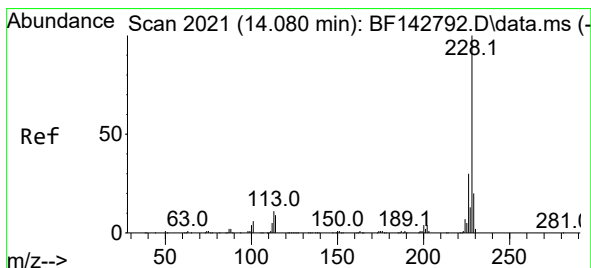
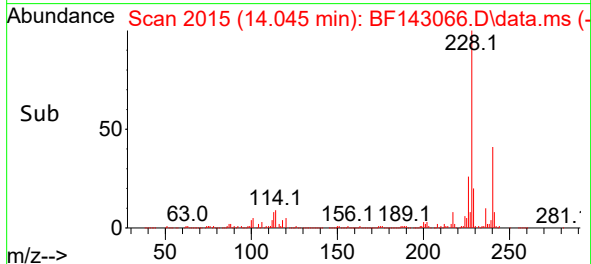
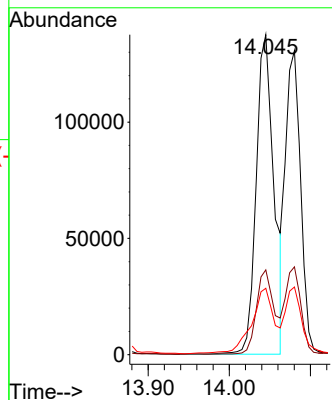
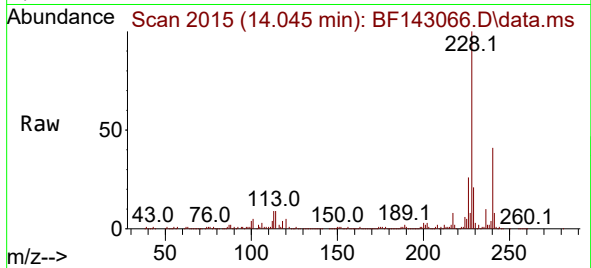




#81
Benzo(a)anthracene
Concen: 26.707 ng
RT: 14.045 min Scan# 2015
Delta R.T. 0.000 min
Lab File: BF143066.D
Acq: 09 Jul 2025 20:04

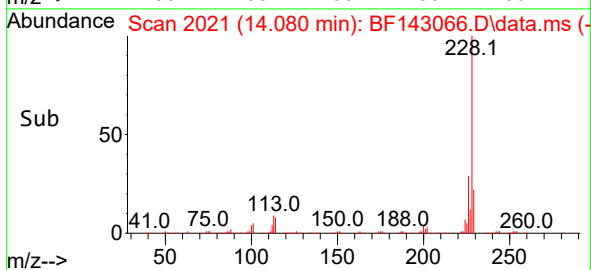
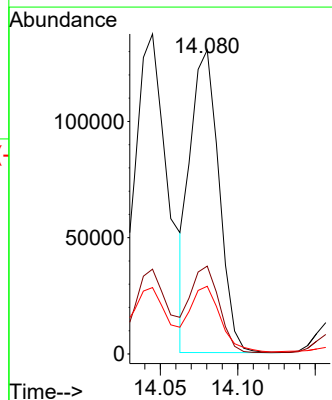
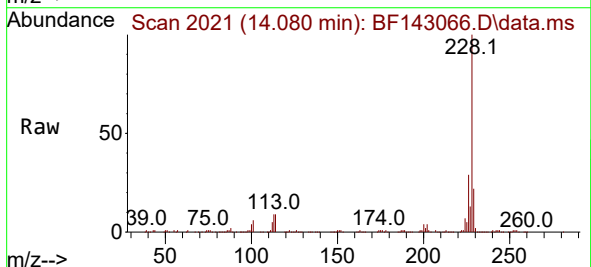
Instrument :
BNA_F
ClientSampleId :
AR520-0015

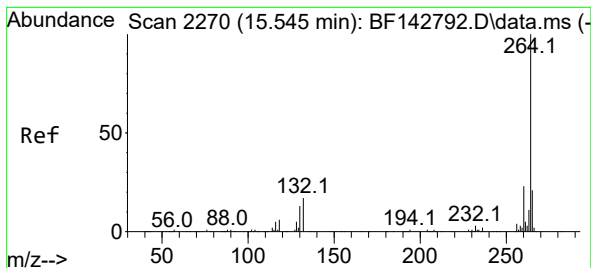
Tgt Ion:228 Resp: 208395
Ion Ratio Lower Upper
228 100
226 26.5 21.2 31.8
229 20.8 15.6 23.4



#83
Chrysene
Concen: 23.992 ng
RT: 14.080 min Scan# 2021
Delta R.T. 0.000 min
Lab File: BF143066.D
Acq: 09 Jul 2025 20:04

Tgt Ion:228 Resp: 167052
Ion Ratio Lower Upper
228 100
226 28.9 23.7 35.5
229 22.3 15.7 23.5





#86

Perylene-d12

Concen: 20.000 ng

RT: 15.545 min Scan# 21

Delta R.T. 0.000 min

Lab File: BF143066.D

Acq: 09 Jul 2025 20:04

Instrument :

BNA_F

ClientSampleId :

AR520-0015

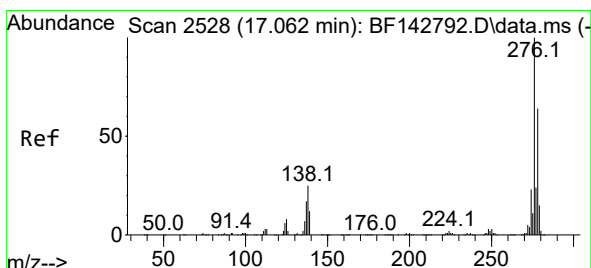
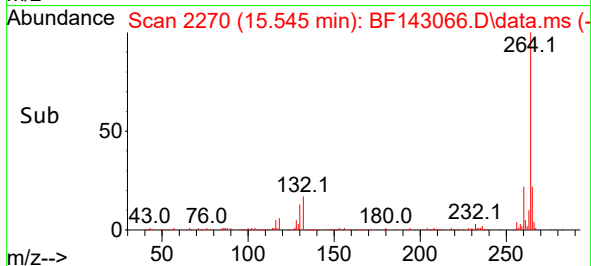
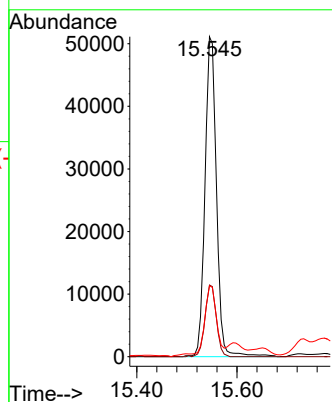
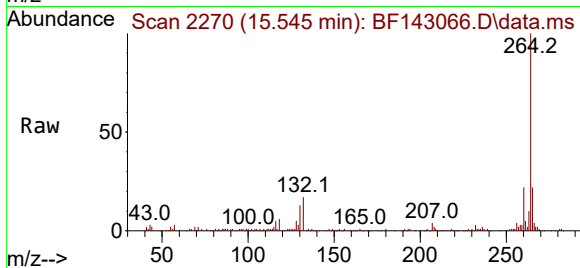
Tgt Ion:264 Resp: 81456

Ion Ratio Lower Upper

264 100

260 22.4 18.1 27.1

265 22.2 16.6 25.0



#87

Indeno(1,2,3-cd)pyrene

Concen: 8.238 ng

RT: 17.062 min Scan# 2528

Delta R.T. 0.000 min

Lab File: BF143066.D

Acq: 09 Jul 2025 20:04

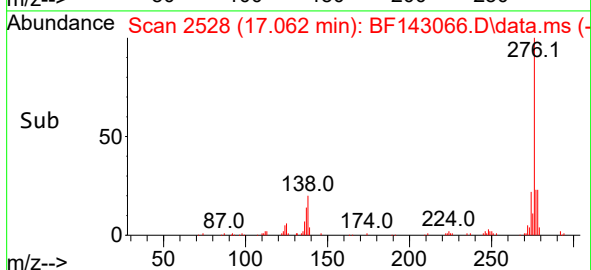
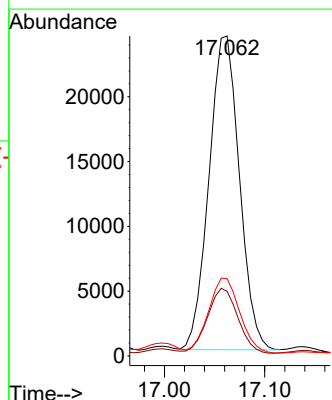
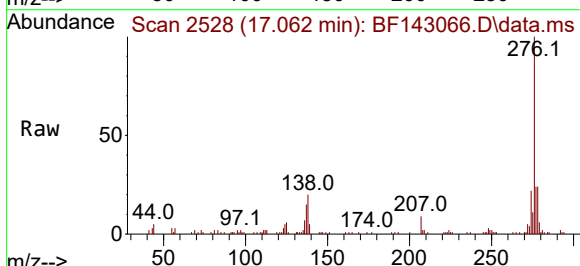
Tgt Ion:276 Resp: 51112

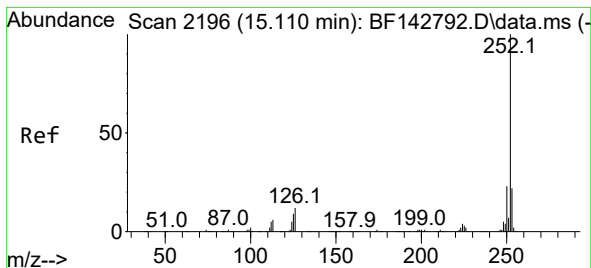
Ion Ratio Lower Upper

276 100

138 21.8 20.2 30.4

277 24.5 19.8 29.6





#88

Benzo(b)fluoranthene

Concen: 46.274 ng

RT: 15.110 min Scan# 2196

Delta R.T. 0.000 min

Lab File: BF143066.D

Acq: 09 Jul 2025 20:04

Instrument :

BNA_F

ClientSampleId :

AR520-0015

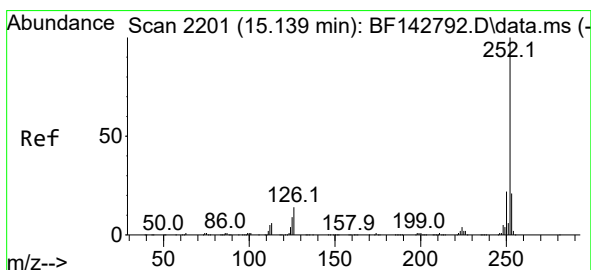
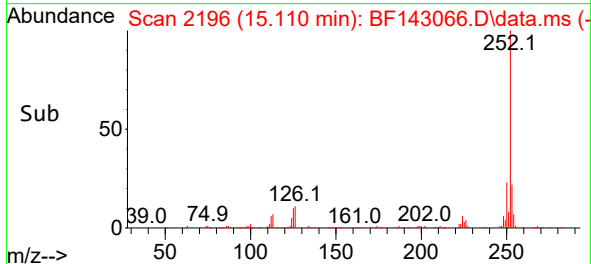
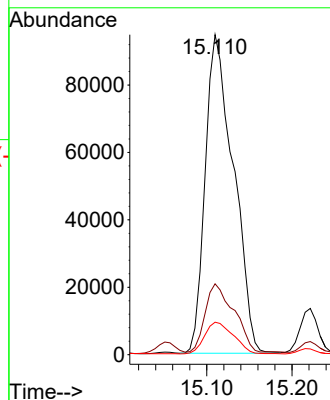
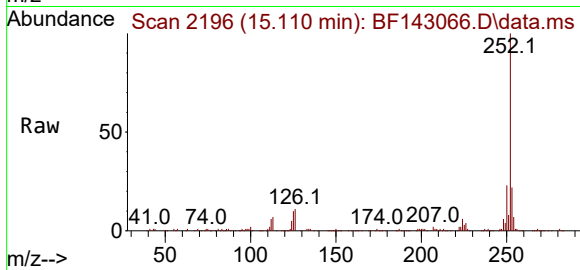
Tgt Ion:252 Resp: 218108

Ion Ratio Lower Upper

252 100

253 22.1 17.5 26.3

125 10.2 7.4 11.0



#89

Benzo(k)fluoranthene

Concen: 49.460 ng

RT: 15.110 min Scan# 2196

Delta R.T. -0.029 min

Lab File: BF143066.D

Acq: 09 Jul 2025 20:04

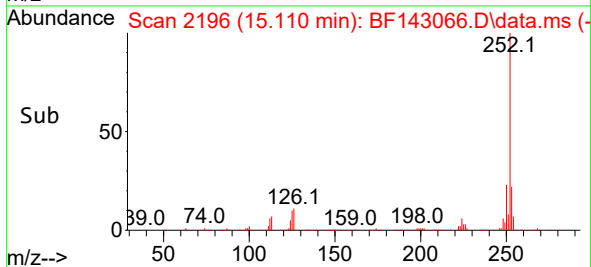
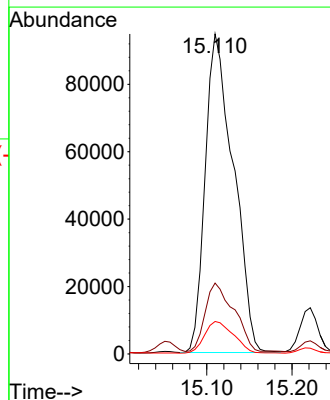
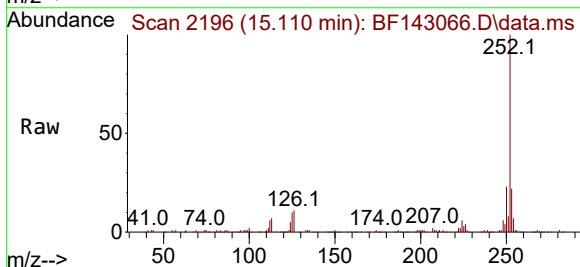
Tgt Ion:252 Resp: 218108

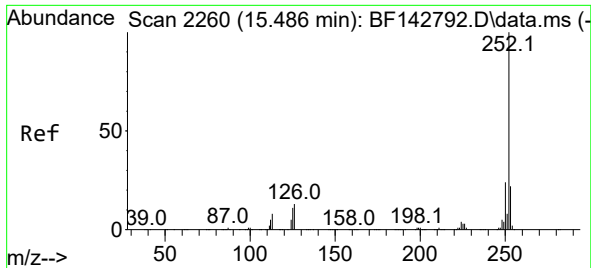
Ion Ratio Lower Upper

252 100

253 22.1 17.2 25.8

125 10.2 7.4 11.2

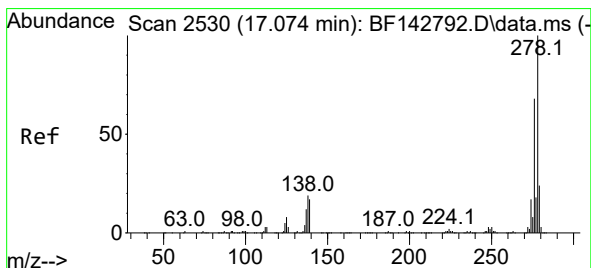
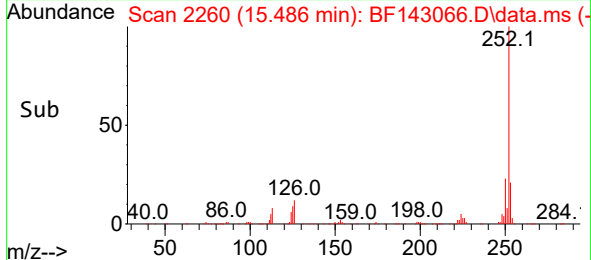
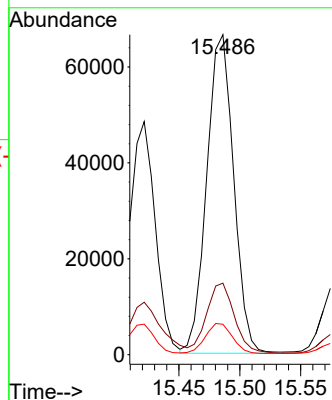
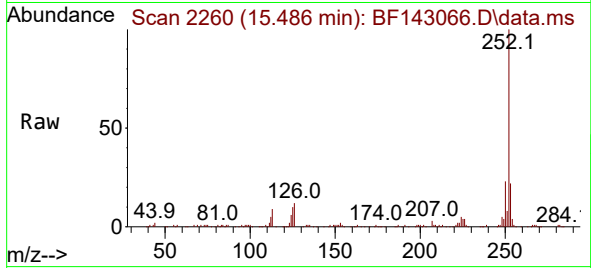




#90
Benzo(a)pyrene
Concen: 22.531 ng
RT: 15.486 min Scan# 21
Delta R.T. 0.000 min
Lab File: BF143066.D
Acq: 09 Jul 2025 20:04

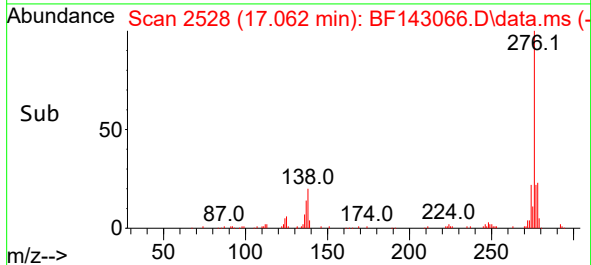
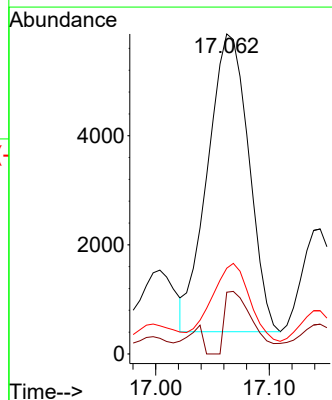
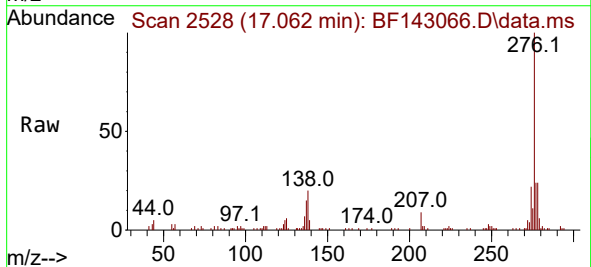
Instrument :
BNA_F
ClientSampleId :
AR520-0015

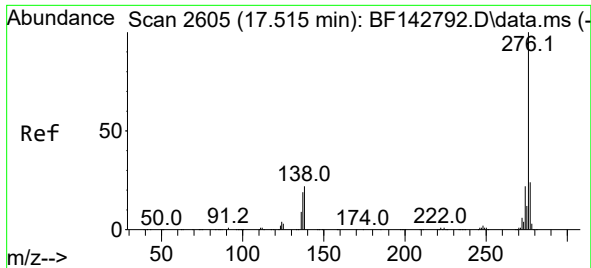
Tgt Ion:252 Resp: 102595
Ion Ratio Lower Upper
252 100
253 22.4 17.5 26.3
125 9.5 8.6 12.8



#91
Dibenzo(a,h)anthracene
Concen: 2.721 ng
RT: 17.062 min Scan# 2528
Delta R.T. -0.012 min
Lab File: BF143066.D
Acq: 09 Jul 2025 20:04

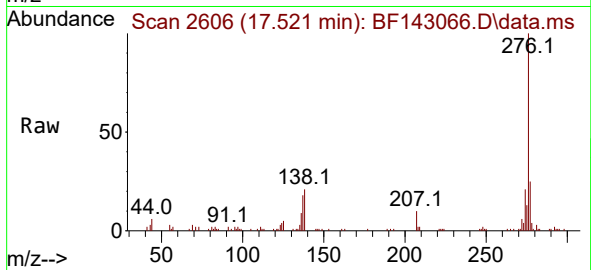
Tgt Ion:278 Resp: 13719
Ion Ratio Lower Upper
278 100
139 19.3 13.5 20.3
279 26.8 18.8 28.2





#92
Benzo(g,h,i)perylene
Concen: 9.798 ng
RT: 17.521 min Scan# 20
Delta R.T. 0.006 min
Lab File: BF143066.D
Acq: 09 Jul 2025 20:04

Instrument :
BNA_F
ClientSampleId :
AR520-0015



Tgt Ion:276 Resp: 49254
Ion Ratio Lower Upper
276 100
277 24.8 18.8 28.2
138 21.2 17.6 26.4

