

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF091225\
 Data File : BF143731.D
 Acq On : 12 Sep 2025 14:13
 Operator : RC/JU
 Sample : Q3075-08
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 MOO-25-0260

Quant Time: Sep 12 14:36:08 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF091025.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Sep 09 15:20:16 2025
 Response via : Initial Calibration

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

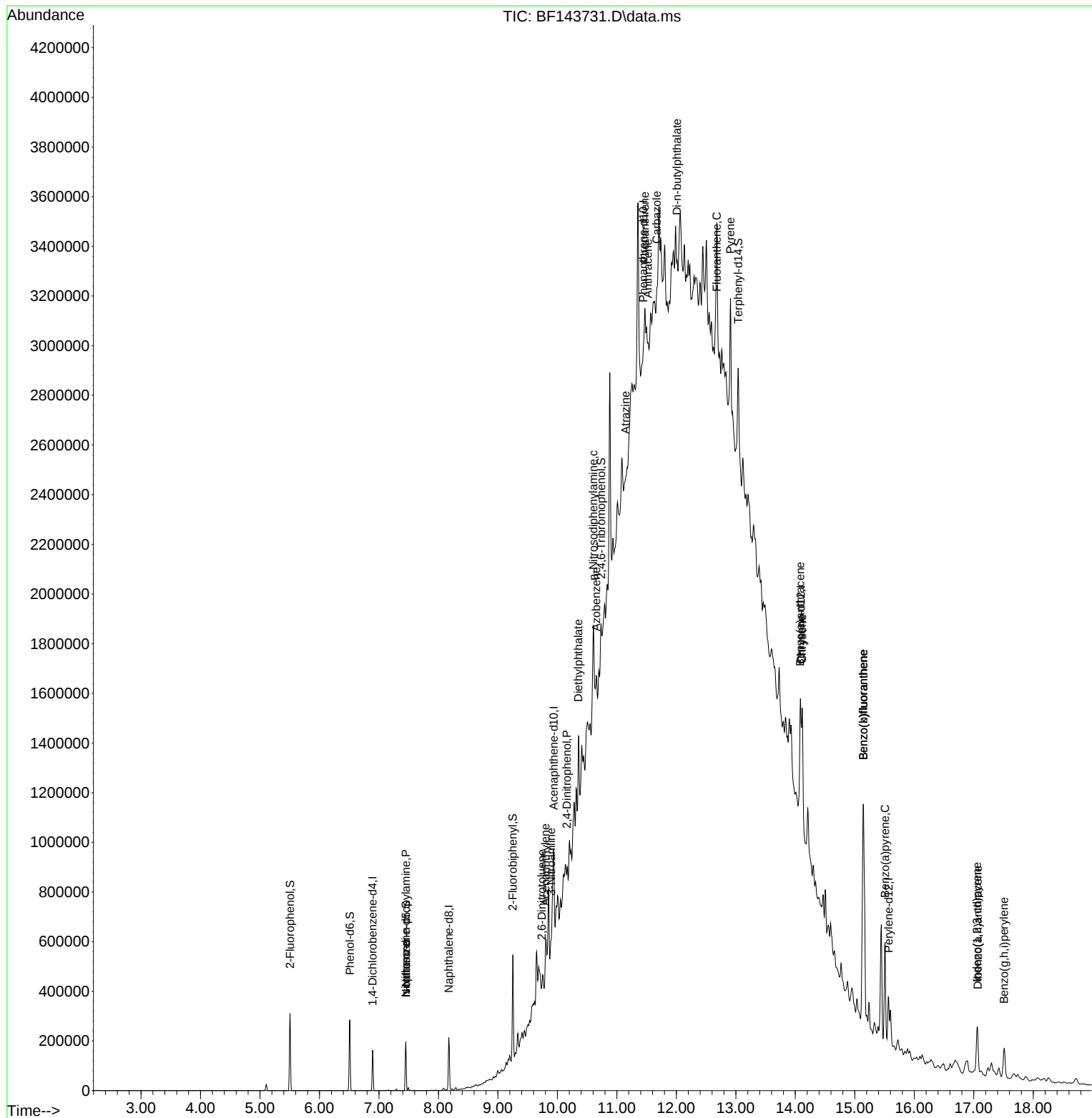
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.893	152	36183	20.000	ng	0.00
21) Naphthalene-d8	8.175	136	129945	20.000	ng	0.00
39) Acenaphthene-d10	9.939	164	62719	20.000	ng	0.01
64) Phenanthrene-d10	11.445	188	83456	20.000	ng	# 0.04
76) Chrysene-d12	14.092	240	91353	20.000	ng	# 0.05
86) Perylene-d12	15.569	264	108928	20.000	ng	0.05
System Monitoring Compounds						
5) 2-Fluorophenol	5.504	112	117884	55.586	ng	0.00
7) Phenol-d6	6.510	99	142204	55.070	ng	0.00
23) Nitrobenzene-d5	7.451	82	85011	40.692	ng	0.00
42) 2,4,6-Tribromophenol	10.734	330	34010	53.808	ng	0.02
45) 2-Fluorobiphenyl	9.251	172	183671	44.238	ng	0.00
79) Terphenyl-d14	13.039	244	166841	29.596	ng	0.05
Target Compounds						Qvalue
19) n-Nitroso-di-n-propyla...	7.451	70	10786	6.801	ng	# 79
25) Isophorone	7.451	82	85010	21.221	ng	# 64
49) Acenaphthylene	9.798	152	21311	4.203	ng	# 62
51) 2,6-Dinitrotoluene	9.739	165	1679	2.152	ng	# 37
53) 3-Nitroaniline	9.892	138	3480	4.145	ng	# 20
54) 2,4-Dinitrophenol	10.157	184	197	6.031	ng	# 1
60) Diethylphthalate	10.351	149	19826	5.175	ng	# 59
63) Azobenzene	10.651	77	7512	2.218	ng	# 34
66) n-Nitrosodiphenylamine	10.604	169	5770	2.110	ng	# 77
69) Atrazine	11.145	200	1985	2.316	ng	# 1
71) Phenanthrene	11.469	178	78583	17.090	ng	# 61
72) Anthracene	11.522	178	21077	4.559	ng	# 26
73) Carbazole	11.669	167	18880	4.986	ng	# 1
74) Di-n-butylphthalate	12.010	149	21788	4.779	ng	# 24
75) Fluoranthene	12.680	202	344321	81.568	ng	95
78) Pyrene	12.910	202	331424	45.375	ng	# 95
81) Benzo(a)anthracene	14.080	228	234797	39.951	ng	92
83) Chrysene	14.116	228	292132	54.273	ng	95
87) Indeno(1,2,3-cd)pyrene	17.057	276	144483	19.435	ng	95
88) Benzo(b)fluoranthene	15.145	252	883704	136.284	ng	# 96
89) Benzo(k)fluoranthene	15.145	252	883704	151.006	ng	# 97
90) Benzo(a)pyrene	15.510	252	258273	45.338	ng	98
91) Dibenzo(a,h)anthracene	17.068	278	35394	5.739	ng	94
92) Benzo(g,h,i)perylene	17.510	276	109719	19.018	ng	97

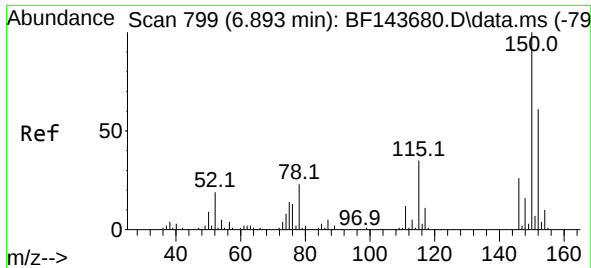
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF091225\
Data File : BF143731.D
Acq On : 12 Sep 2025 14:13
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ALS Vial : 9 Sample Multiplier: 1

Instrument :
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MOO-25-0260

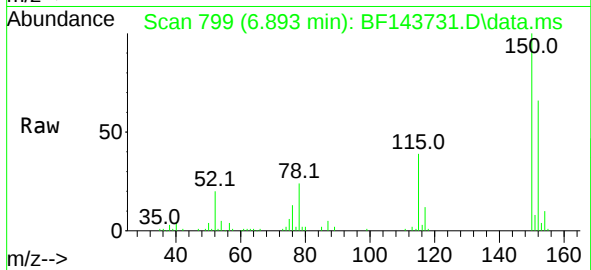
Quant Time: Sep 12 14:36:08 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF091025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
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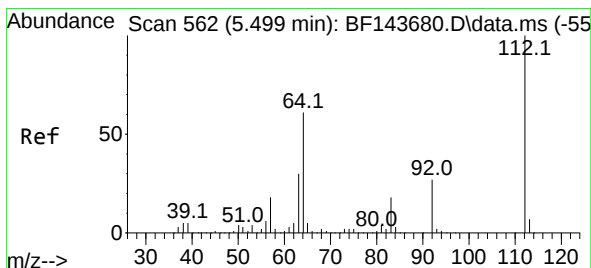
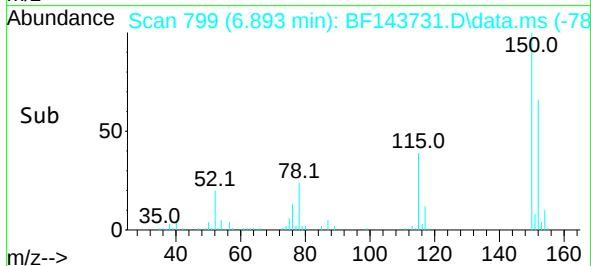
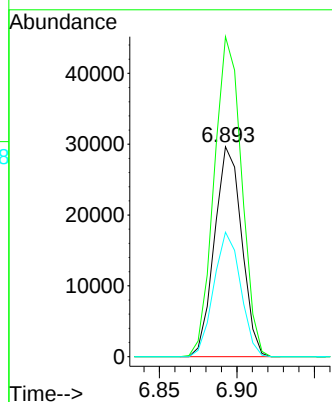


#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.893 min Scan# 799
Delta R.T. -0.000 min
Lab File: BF143731.D
Acq: 12 Sep 2025 14:13

Instrument :
BNA_F
ClientSampleId :
MOO-25-0260

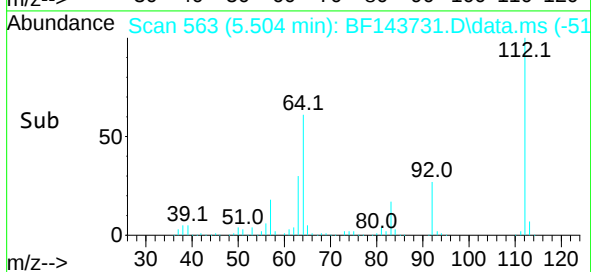
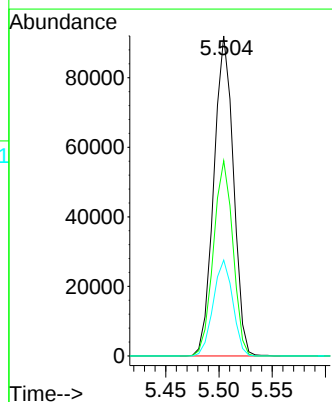
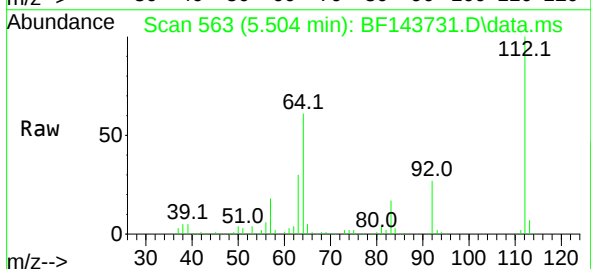


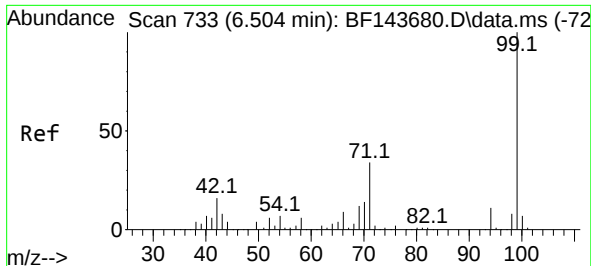
Tgt Ion:152 Resp: 36183
Ion Ratio Lower Upper
152 100
150 152.4 130.7 196.1
115 59.3 45.9 68.9



#5
2-Fluorophenol
Concen: 55.586 ng
RT: 5.504 min Scan# 563
Delta R.T. 0.006 min
Lab File: BF143731.D
Acq: 12 Sep 2025 14:13

Tgt Ion:112 Resp: 117884
Ion Ratio Lower Upper
112 100
64 61.0 49.0 73.4
63 29.9 24.3 36.5

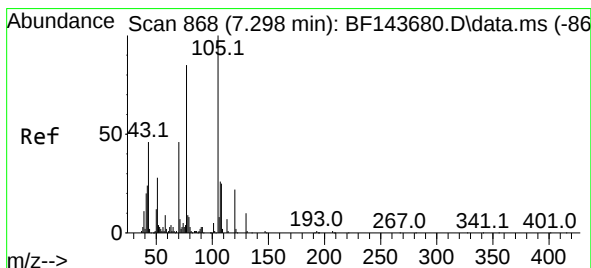
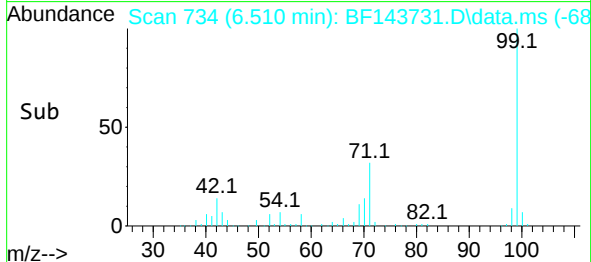
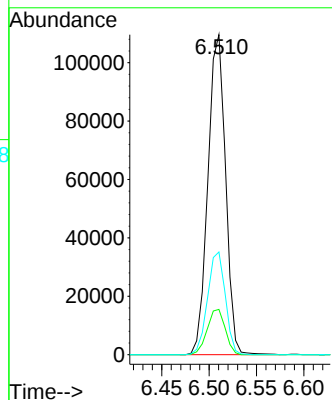
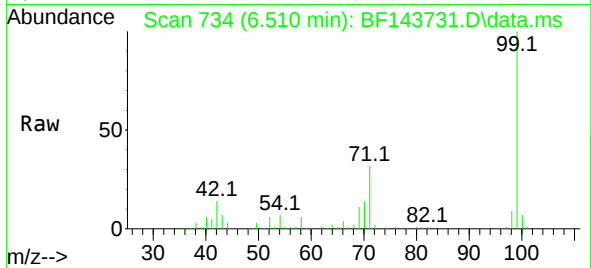




#7
Phenol-d6
Concen: 55.070 ng
RT: 6.510 min Scan# 71
Delta R.T. 0.006 min
Lab File: BF143731.D
Acq: 12 Sep 2025 14:13

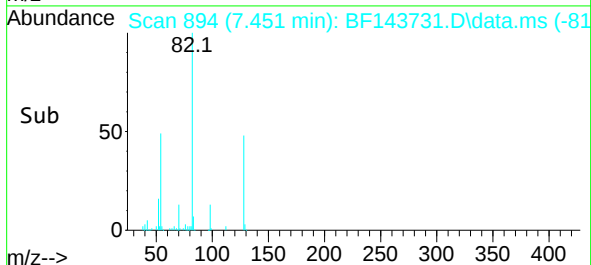
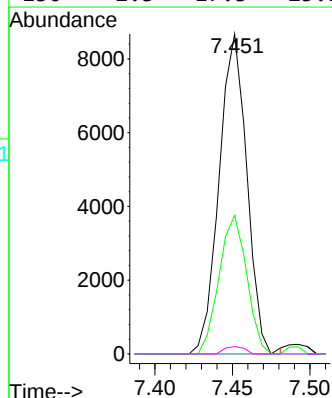
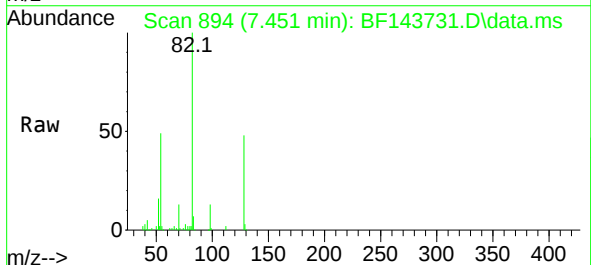
Instrument :
BNA_F
ClientSampleId :
MOO-25-0260

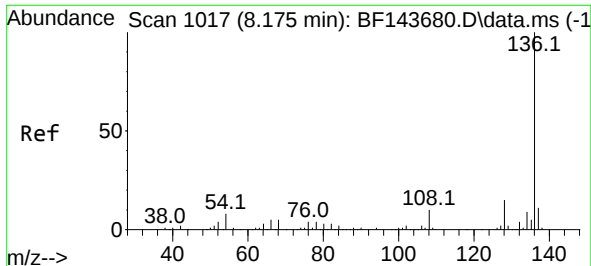
Tgt Ion: 99 Resp: 142204
Ion Ratio Lower Upper
99 100
42 14.2 13.0 19.4
71 32.1 27.4 41.2



#19
n-Nitroso-di-n-propylamine
Concen: 6.801 ng
RT: 7.451 min Scan# 894
Delta R.T. 0.153 min
Lab File: BF143731.D
Acq: 12 Sep 2025 14:13

Tgt Ion: 70 Resp: 10786
Ion Ratio Lower Upper
70 100
42 43.3 41.4 62.2
101 0.0 8.1 12.1#
130 2.3 17.3 25.9#





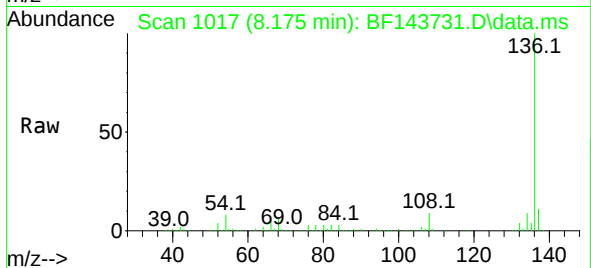
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.175 min Scan# 1017
Delta R.T. -0.000 min
Lab File: BF143731.D
Acq: 12 Sep 2025 14:13

Instrument :

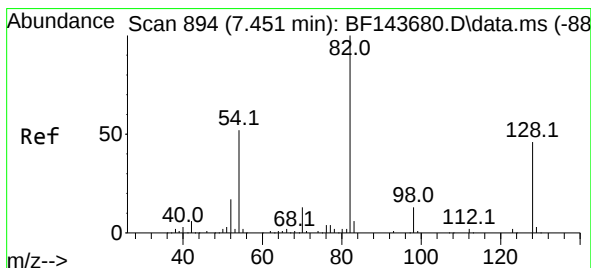
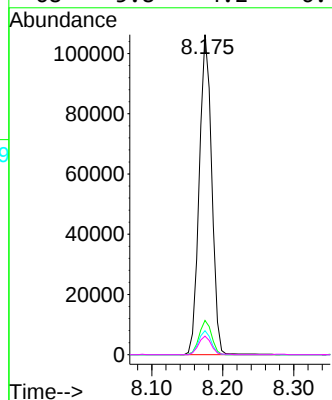
BNA_F

ClientSampleId :

MOO-25-0260

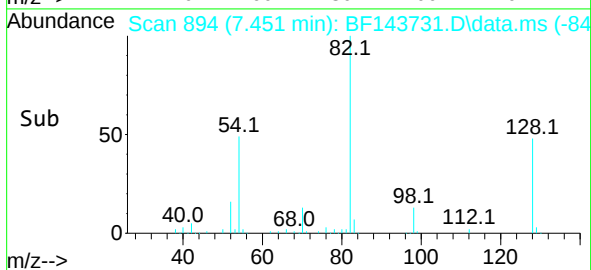
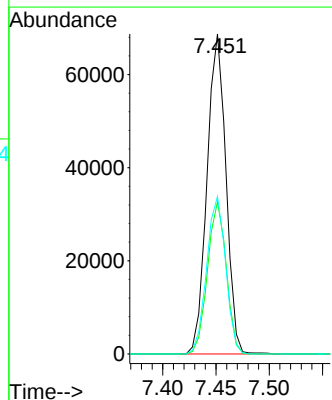
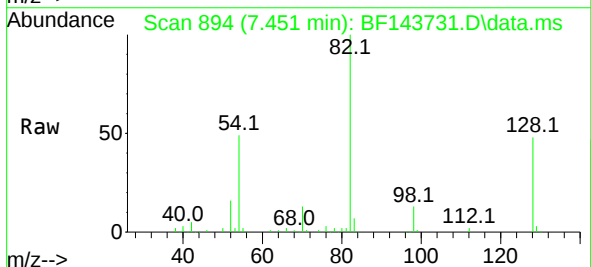


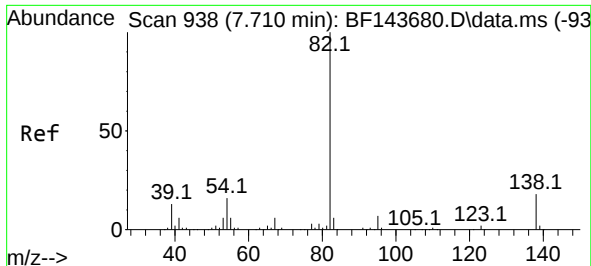
Tgt Ion:	136	Resp:	129945
Ion Ratio	Lower	Upper	
136	100		
137	10.7	8.7	13.1
54	7.5	6.2	9.2
68	5.8	4.2	6.4



#23
Nitrobenzene-d5
Concen: 40.692 ng
RT: 7.451 min Scan# 894
Delta R.T. -0.000 min
Lab File: BF143731.D
Acq: 12 Sep 2025 14:13

Tgt Ion:	82	Resp:	85011
Ion Ratio	Lower	Upper	
82	100		
128	47.6	37.0	55.4
54	49.2	41.8	62.8

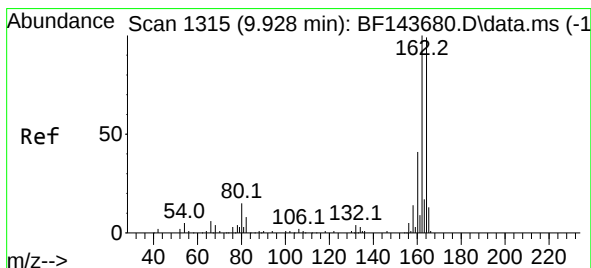
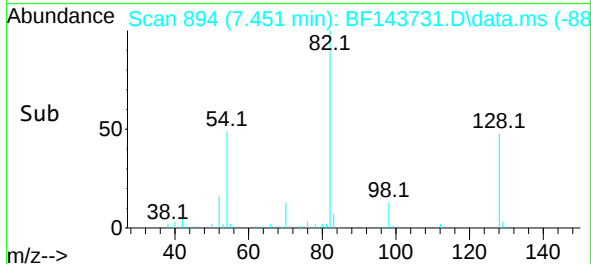
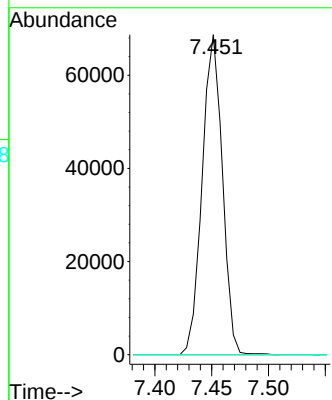
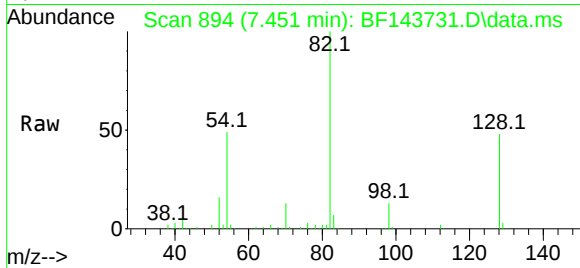




#25
Isophorone
Concen: 21.221 ng
RT: 7.451 min Scan# 894
Delta R.T. -0.259 min
Lab File: BF143731.D
Acq: 12 Sep 2025 14:13

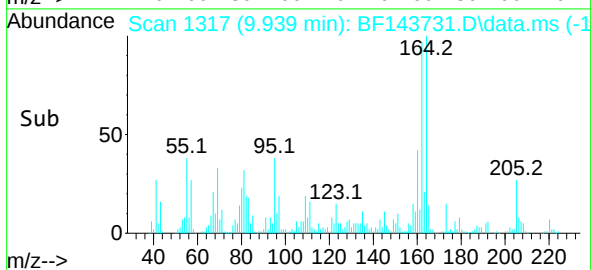
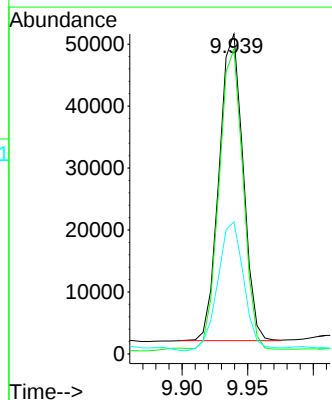
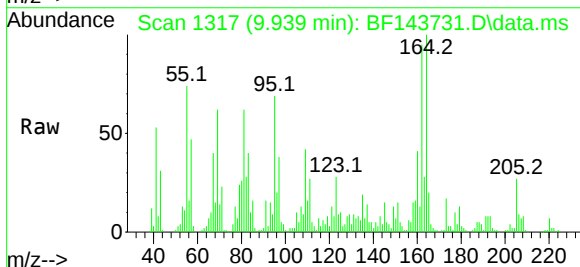
Instrument :
BNA_F
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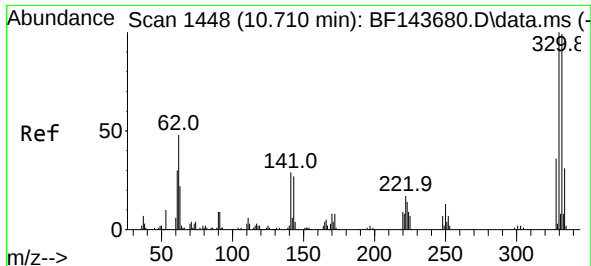
Tgt Ion: 82 Resp: 85010
Ion Ratio Lower Upper
82 100
95 0.0 5.7 8.5#
138 0.0 14.8 22.2#



#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.939 min Scan# 1317
Delta R.T. 0.012 min
Lab File: BF143731.D
Acq: 12 Sep 2025 14:13

Tgt Ion:164 Resp: 62719
Ion Ratio Lower Upper
164 100
162 95.3 80.6 121.0
160 41.3 33.0 49.4

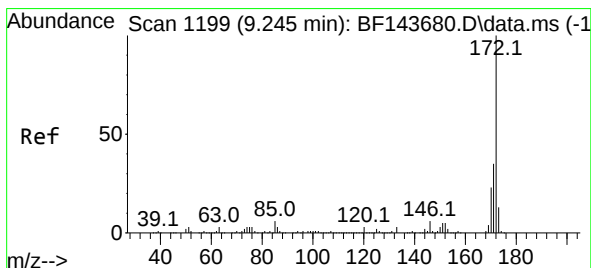
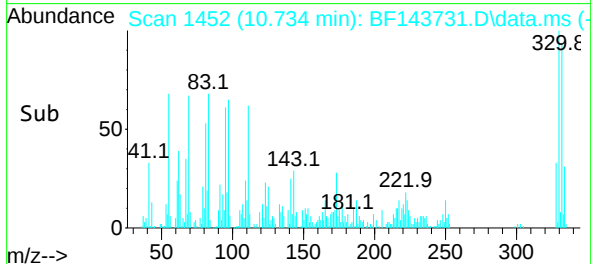
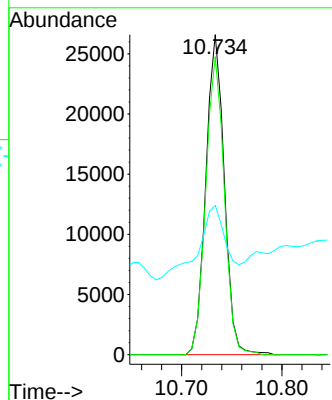
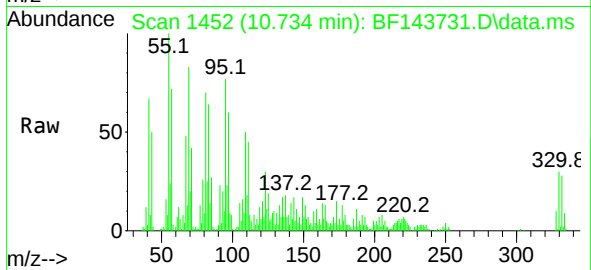




#42
2,4,6-Tribromophenol
Concen: 53.808 ng
RT: 10.734 min Scan# 1448
Delta R.T. 0.024 min
Lab File: BF143731.D
Acq: 12 Sep 2025 14:13

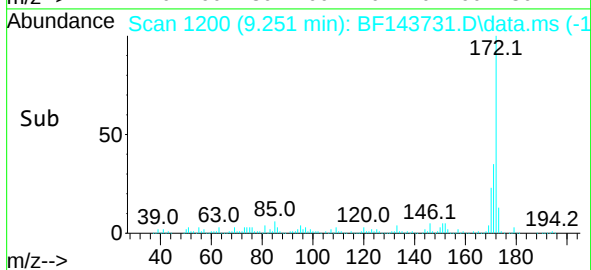
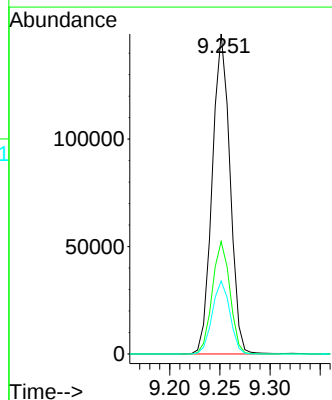
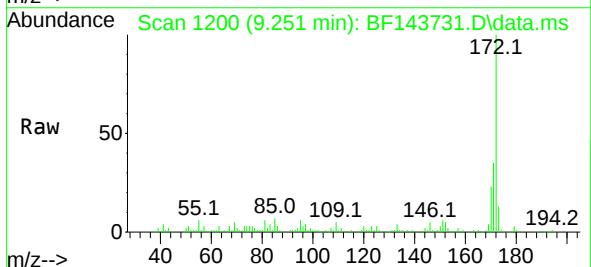
Instrument :
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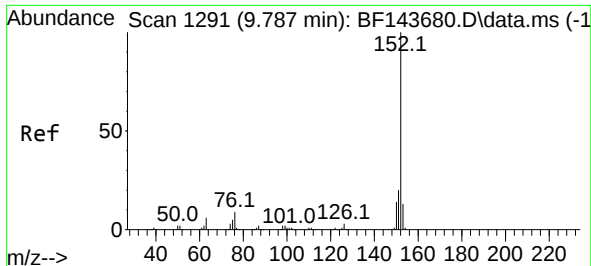
Tgt Ion:330 Resp: 34010
Ion Ratio Lower Upper
330 100
332 93.6 79.2 118.8
141 35.1 22.2 33.4#



#45
2-Fluorobiphenyl
Concen: 44.238 ng
RT: 9.251 min Scan# 1200
Delta R.T. 0.006 min
Lab File: BF143731.D
Acq: 12 Sep 2025 14:13

Tgt Ion:172 Resp: 183671
Ion Ratio Lower Upper
172 100
171 35.2 27.9 41.9
170 22.8 18.6 27.8





#49

Acenaphthylene

Concen: 4.203 ng

RT: 9.798 min Scan# 1

Delta R.T. 0.012 min

Lab File: BF143731.D

Acq: 12 Sep 2025 14:13

Instrument :

BNA_F

ClientSampleId :

MOO-25-0260

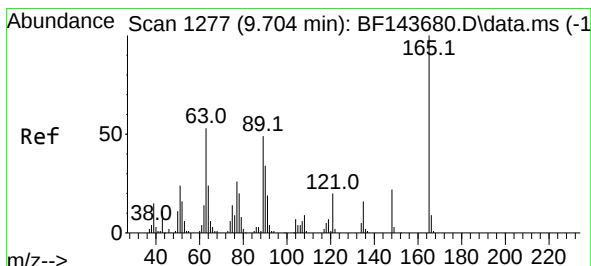
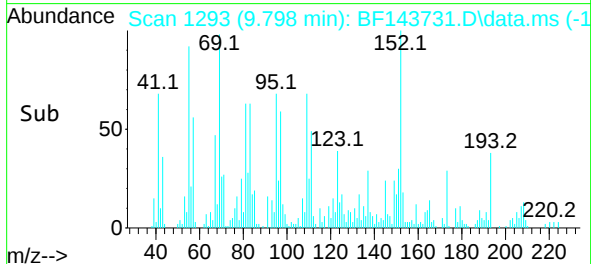
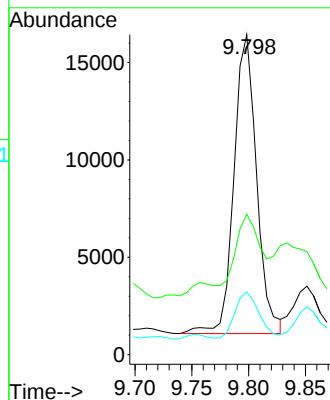
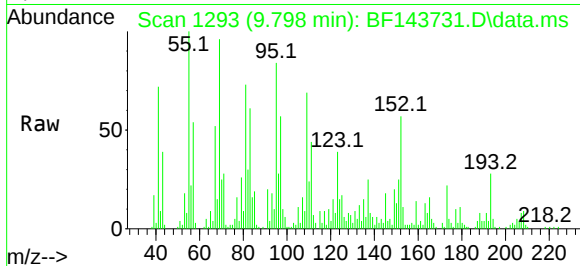
Tgt Ion:152 Resp: 21311

Ion Ratio Lower Upper

152 100

151 43.8 15.9 23.9#

153 19.6 10.4 15.6#



#51

2,6-Dinitrotoluene

Concen: 2.152 ng

RT: 9.739 min Scan# 1283

Delta R.T. 0.035 min

Lab File: BF143731.D

Acq: 12 Sep 2025 14:13

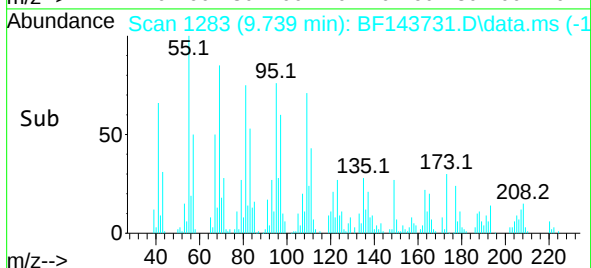
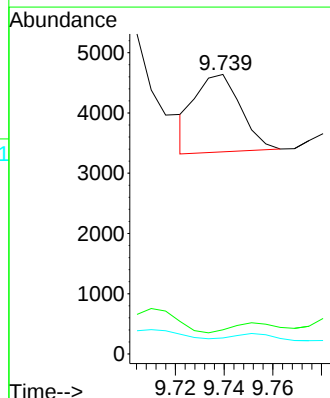
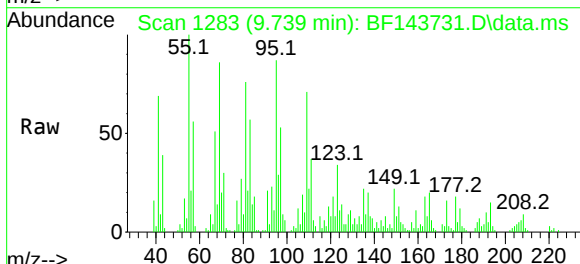
Tgt Ion:165 Resp: 1679

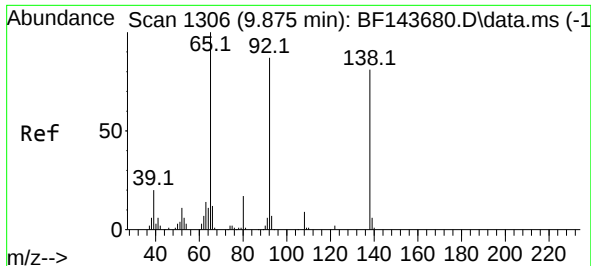
Ion Ratio Lower Upper

165 100

63 8.6 42.2 63.4#

89 5.7 39.3 58.9#

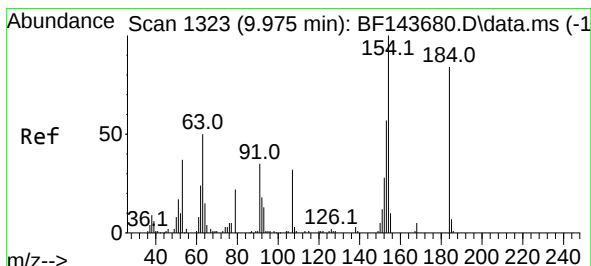
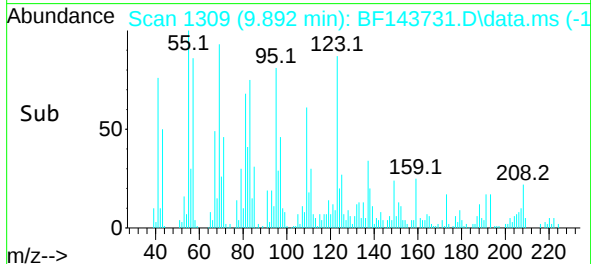
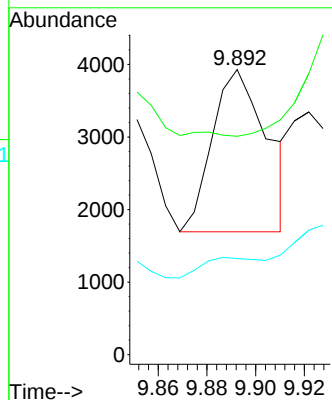
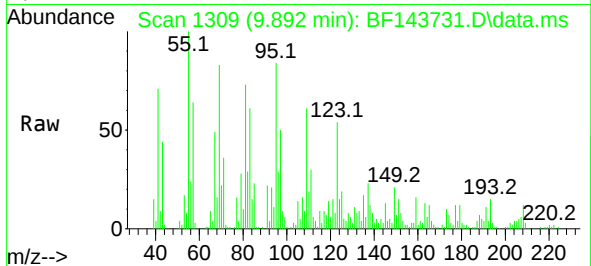




#53
3-Nitroaniline
Concen: 4.145 ng
RT: 9.892 min Scan# 11
Delta R.T. 0.018 min
Lab File: BF143731.D
Acq: 12 Sep 2025 14:13

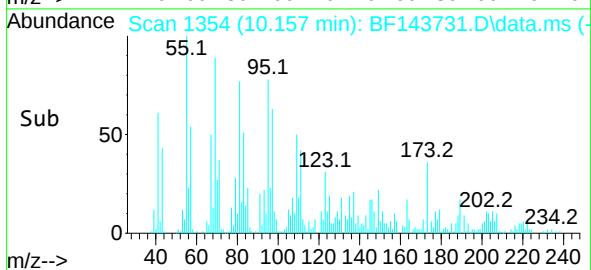
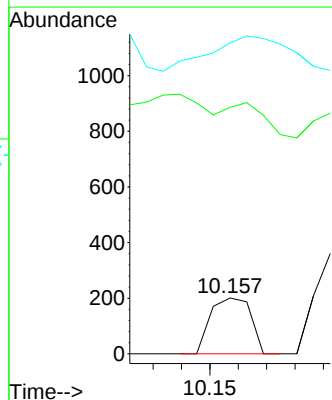
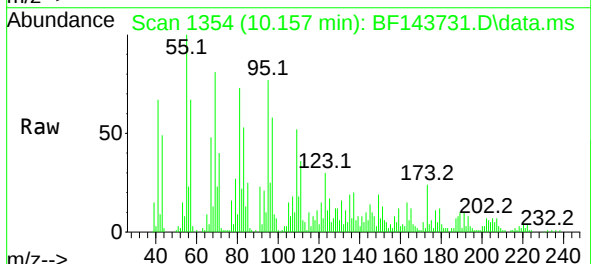
Instrument :
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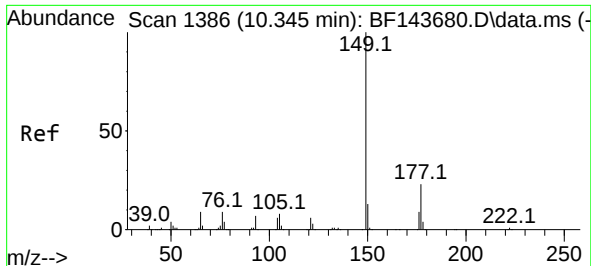
Tgt Ion:138 Resp: 3480
Ion Ratio Lower Upper
138 100
108 76.6 8.6 12.8#
92 33.7 85.5 128.3#



#54
2,4-Dinitrophenol
Concen: 6.031 ng
RT: 10.157 min Scan# 1354
Delta R.T. 0.182 min
Lab File: BF143731.D
Acq: 12 Sep 2025 14:13

Tgt Ion:184 Resp: 197
Ion Ratio Lower Upper
184 100
63 440.8 52.7 79.1#
154 556.2 136.6 204.8#

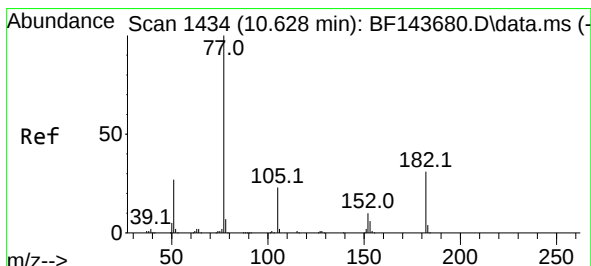
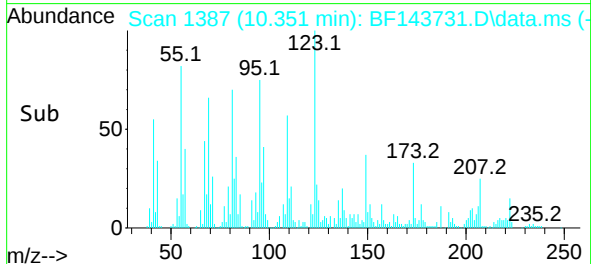
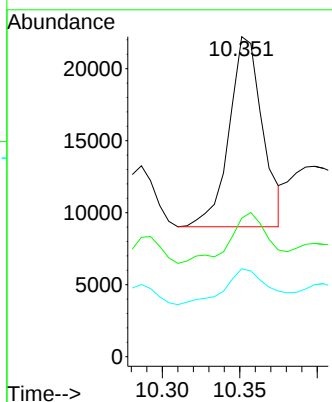
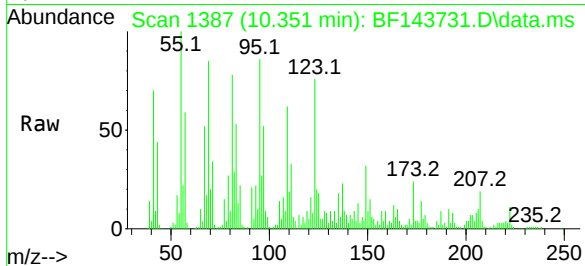




#60
Diethylphthalate
Concen: 5.175 ng
RT: 10.351 min Scan# 11
Delta R.T. 0.006 min
Lab File: BF143731.D
Acq: 12 Sep 2025 14:13

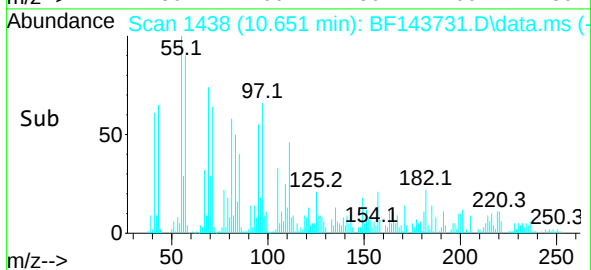
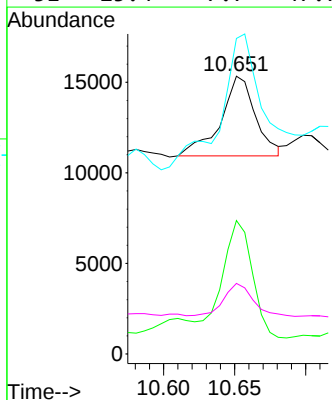
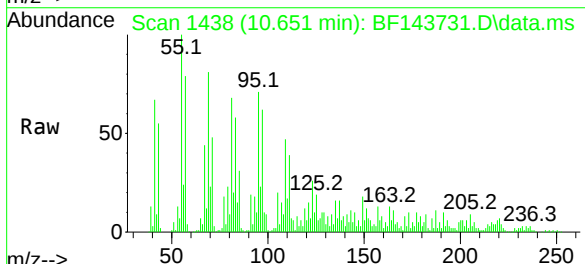
Instrument :
BNA_F
ClientSampleId :
MOO-25-0260

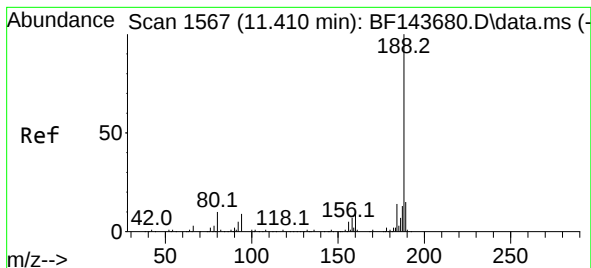
Tgt Ion:149 Resp: 19826
Ion Ratio Lower Upper
149 100
177 43.3 18.2 27.2#
150 27.5 10.0 15.0#



#63
Azobenzene
Concen: 2.218 ng
RT: 10.651 min Scan# 1438
Delta R.T. 0.024 min
Lab File: BF143731.D
Acq: 12 Sep 2025 14:13

Tgt Ion: 77 Resp: 7512
Ion Ratio Lower Upper
77 100
182 48.0 10.8 50.8
105 113.6 3.2 43.2#
51 25.4 7.7 47.7





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.445 min Scan# 11

Delta R.T. 0.035 min

Lab File: BF143731.D

Acq: 12 Sep 2025 14:13

Instrument :

BNA_F

ClientSampleId :

MOO-25-0260

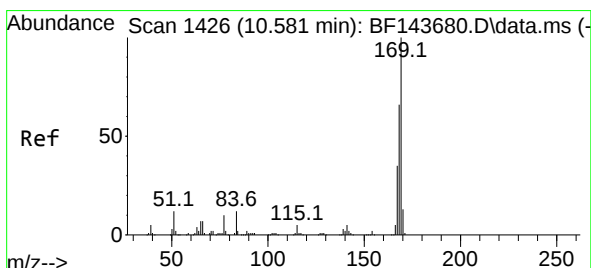
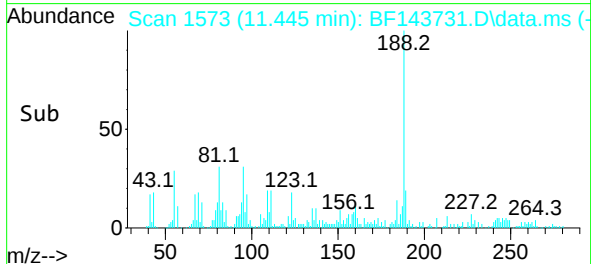
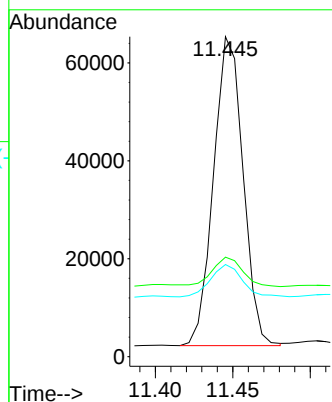
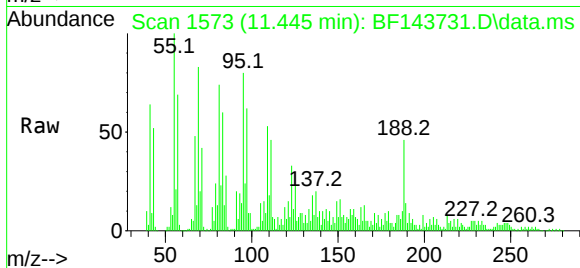
Tgt Ion:188 Resp: 83456

Ion Ratio Lower Upper

188 100

94 31.1 7.4 11.0#

80 28.8 7.7 11.5#



#66

n-Nitrosodiphenylamine

Concen: 2.110 ng

RT: 10.604 min Scan# 1430

Delta R.T. 0.024 min

Lab File: BF143731.D

Acq: 12 Sep 2025 14:13

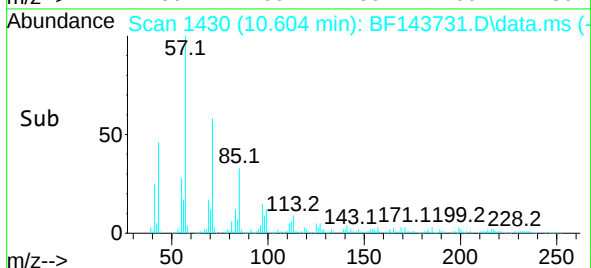
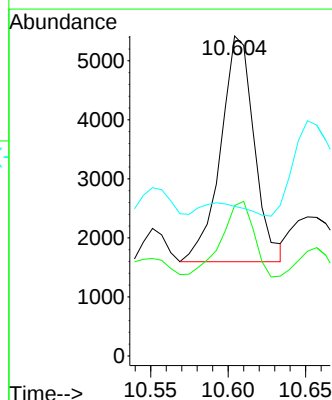
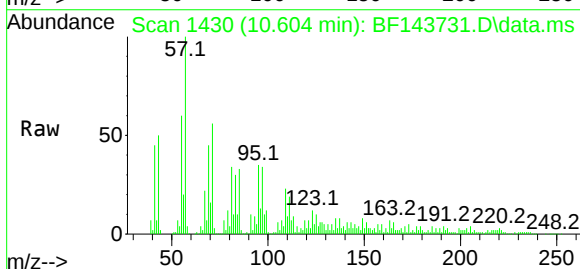
Tgt Ion:169 Resp: 5770

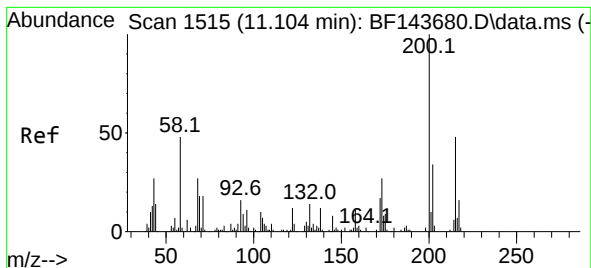
Ion Ratio Lower Upper

169 100

168 47.0 53.0 79.6#

167 46.8 28.1 42.1#





#69

Atrazine

Concen: 2.316 ng

RT: 11.145 min Scan# 1515

Delta R.T. 0.041 min

Lab File: BF143731.D

Acq: 12 Sep 2025 14:13

Instrument :

BNA_F

ClientSampleId :

MOO-25-0260

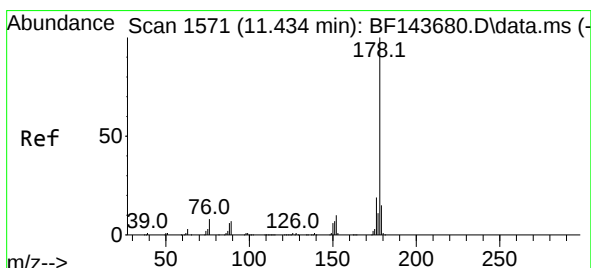
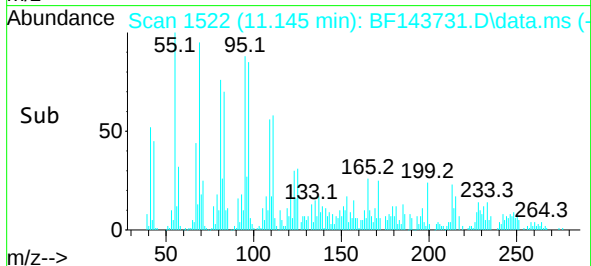
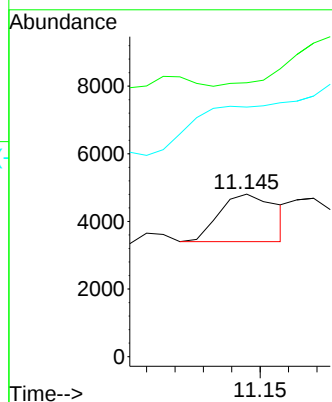
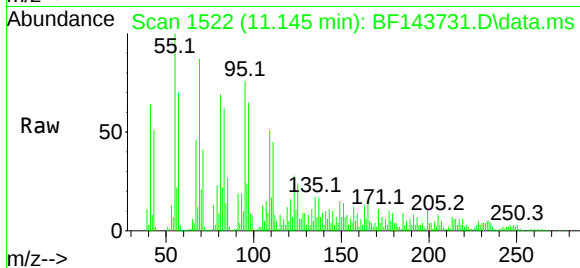
Tgt Ion:200 Resp: 1985

Ion Ratio Lower Upper

200 100

173 168.5 7.3 47.3#

215 153.5 28.5 68.5#



#71

Phenanthrene

Concen: 17.090 ng

RT: 11.469 min Scan# 1577

Delta R.T. 0.035 min

Lab File: BF143731.D

Acq: 12 Sep 2025 14:13

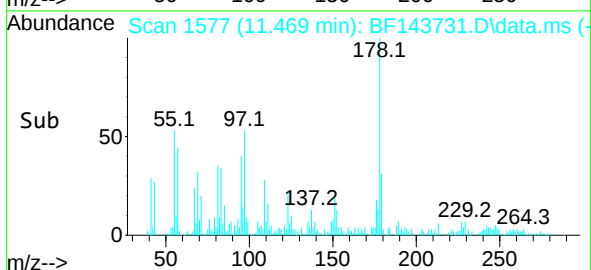
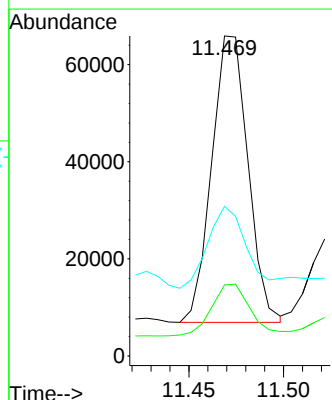
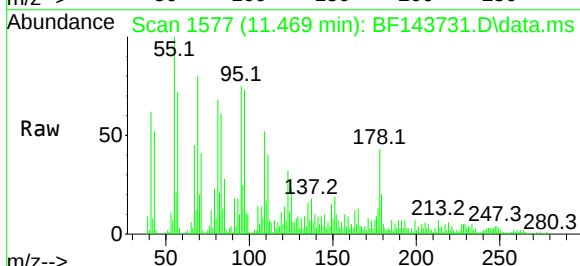
Tgt Ion:178 Resp: 78583

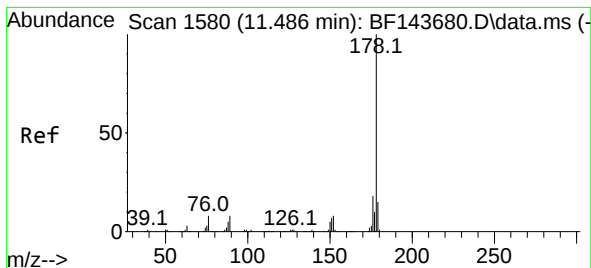
Ion Ratio Lower Upper

178 100

176 22.2 14.8 22.2

179 46.8 12.2 18.2#





#72

Anthracene

Concen: 4.559 ng

RT: 11.522 min Scan# 11

Delta R.T. 0.035 min

Lab File: BF143731.D

Acq: 12 Sep 2025 14:13

Instrument :

BNA_F

ClientSampleId :

MOO-25-0260

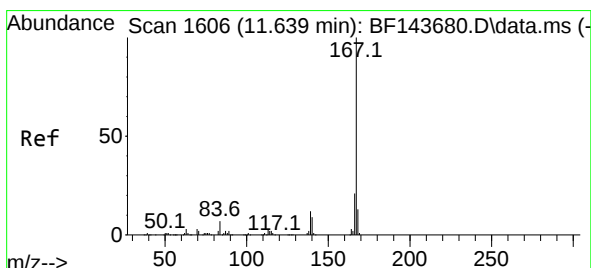
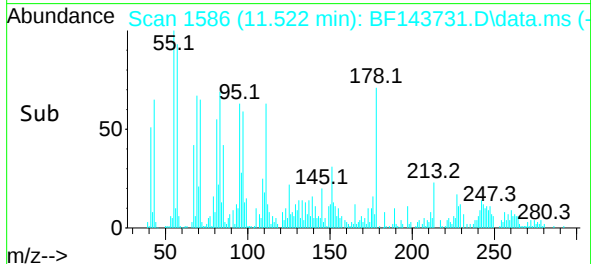
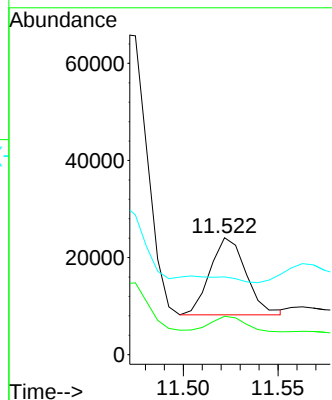
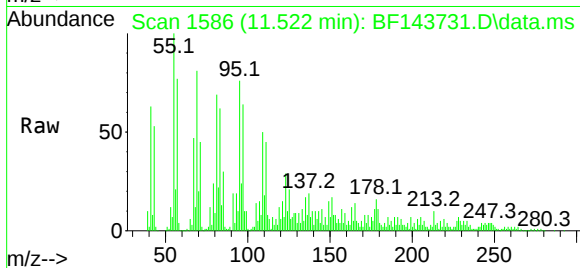
Tgt Ion:178 Resp: 21077

Ion Ratio Lower Upper

178 100

176 32.8 14.5 21.7#

179 66.6 12.2 18.2#



#73

Carbazole

Concen: 4.986 ng

RT: 11.669 min Scan# 1611

Delta R.T. 0.029 min

Lab File: BF143731.D

Acq: 12 Sep 2025 14:13

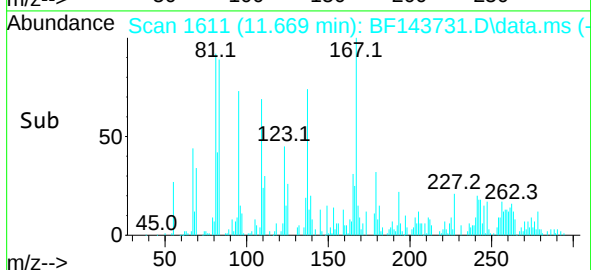
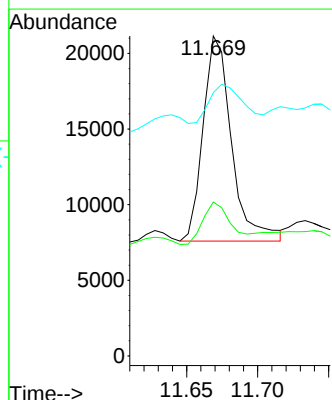
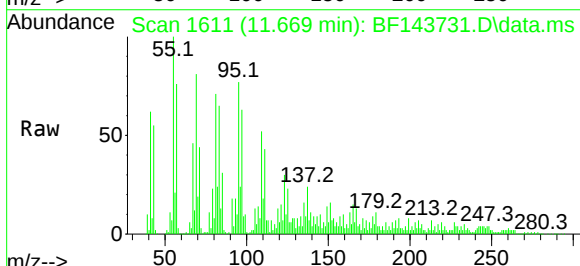
Tgt Ion:167 Resp: 18880

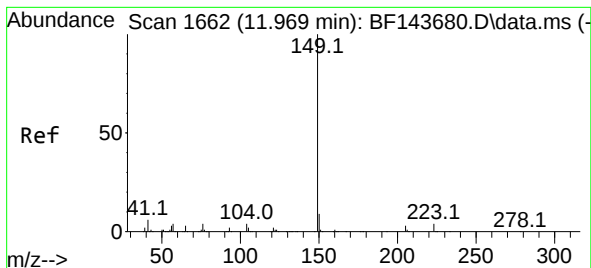
Ion Ratio Lower Upper

167 100

166 48.1 17.0 25.4#

139 82.3 9.7 14.5#





#74

Di-n-butylphthalate

Concen: 4.779 ng

RT: 12.010 min Scan# 1

Delta R.T. 0.041 min

Lab File: BF143731.D

Acq: 12 Sep 2025 14:13

Instrument :

BNA_F

ClientSampleId :

MOO-25-0260

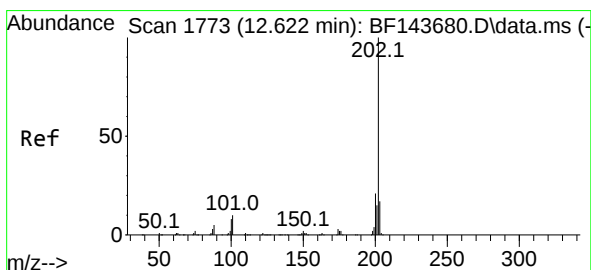
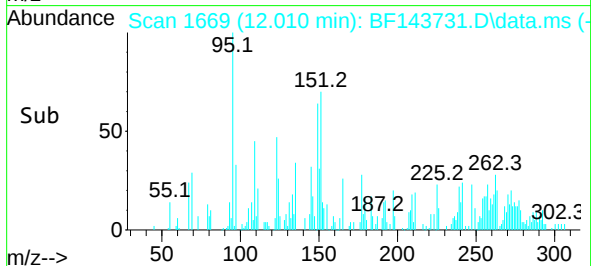
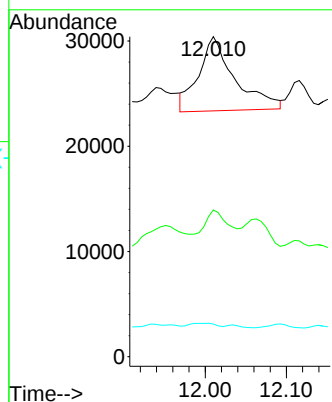
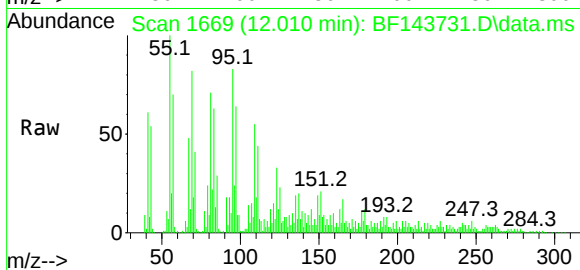
Tgt Ion:149 Resp: 21788

Ion Ratio Lower Upper

149 100

150 45.8 7.3 10.9#

104 10.2 3.3 4.9#



#75

Fluoranthene

Concen: 81.568 ng

RT: 12.680 min Scan# 1783

Delta R.T. 0.059 min

Lab File: BF143731.D

Acq: 12 Sep 2025 14:13

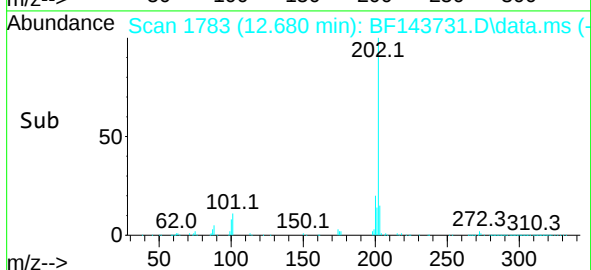
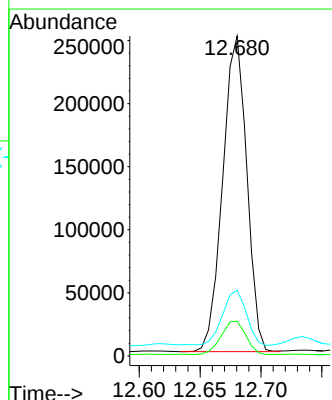
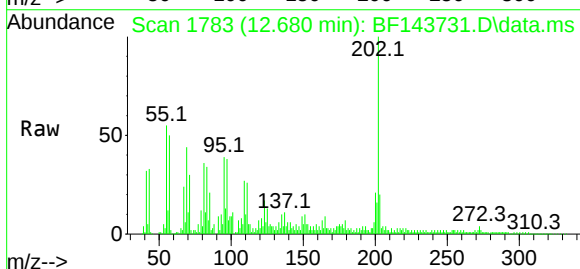
Tgt Ion:202 Resp: 344321

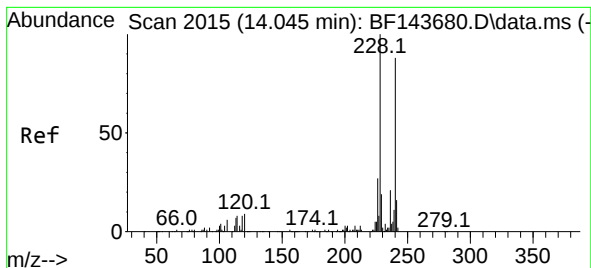
Ion Ratio Lower Upper

202 100

101 10.9 0.0 30.5

203 20.5 0.0 37.1





#76

Chrysene-d12

Concen: 20.000 ng

RT: 14.092 min Scan# 20

Delta R.T. 0.047 min

Lab File: BF143731.D

Acq: 12 Sep 2025 14:13

Instrument :

BNA_F

ClientSampleId :

MOO-25-0260

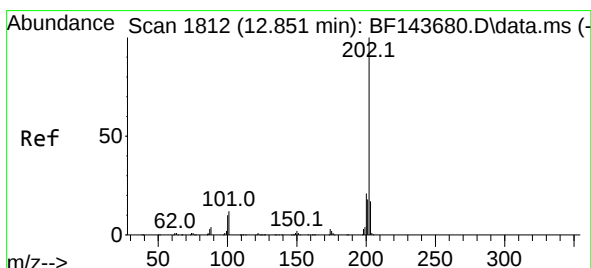
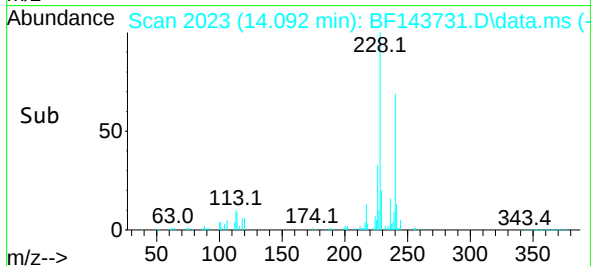
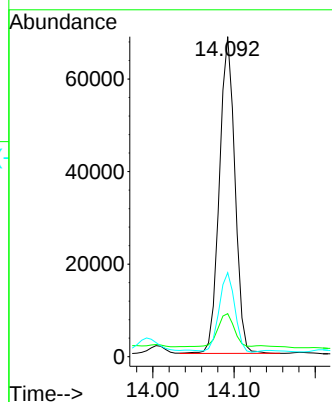
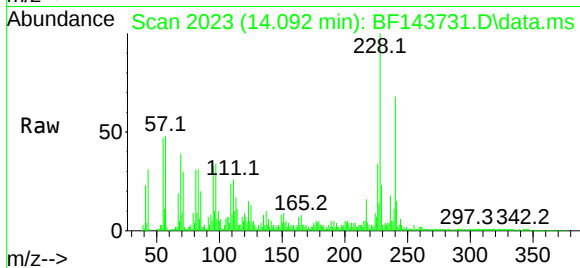
Tgt Ion:240 Resp: 91353

Ion Ratio Lower Upper

240 100

120 13.5 8.4 12.6#

236 26.2 18.6 28.0



#78

Pyrene

Concen: 45.375 ng

RT: 12.910 min Scan# 1822

Delta R.T. 0.059 min

Lab File: BF143731.D

Acq: 12 Sep 2025 14:13

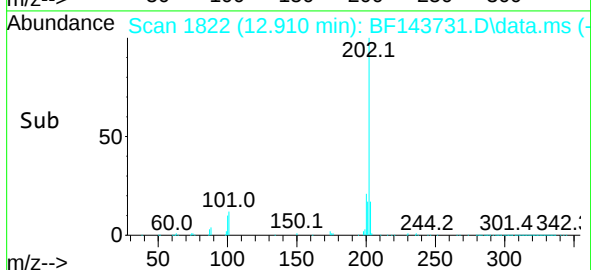
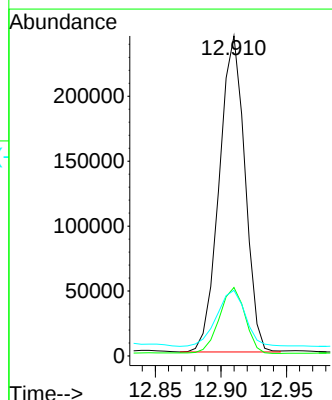
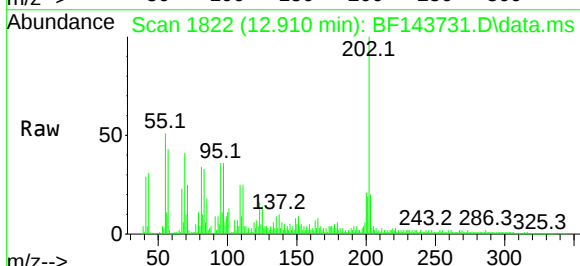
Tgt Ion:202 Resp: 331424

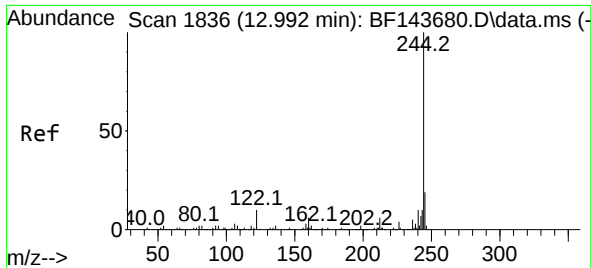
Ion Ratio Lower Upper

202 100

200 21.4 16.6 24.8

203 20.5 13.5 20.3#

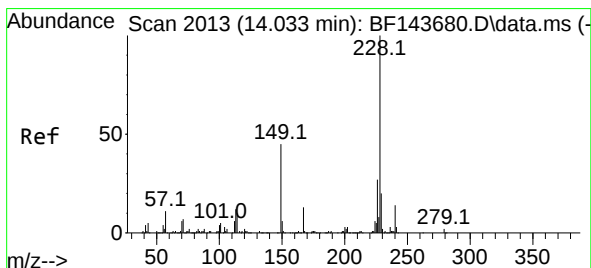
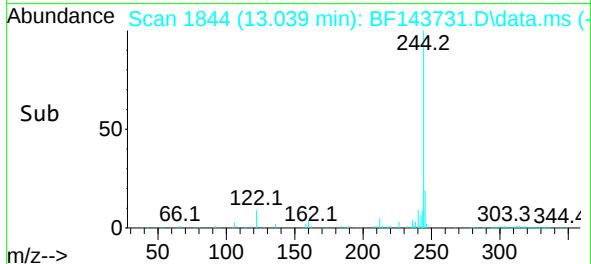
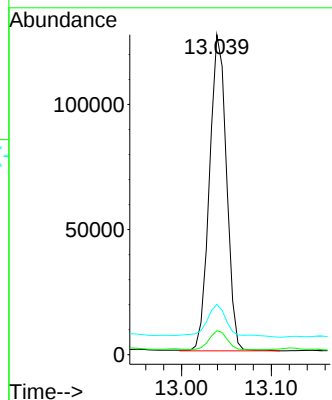
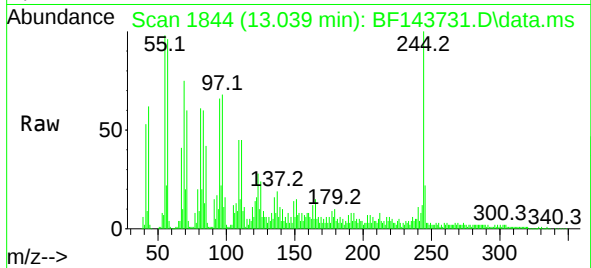




#79
 Terphenyl-d14
 Concen: 29.596 ng
 RT: 13.039 min Scan# 11
 Delta R.T. 0.047 min
 Lab File: BF143731.D
 Acq: 12 Sep 2025 14:13

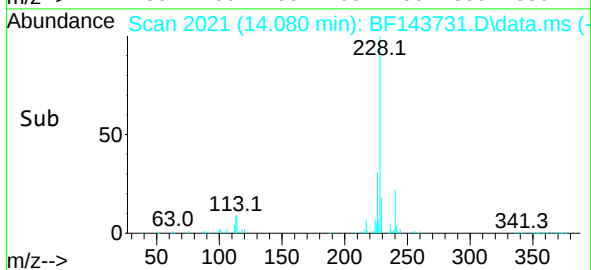
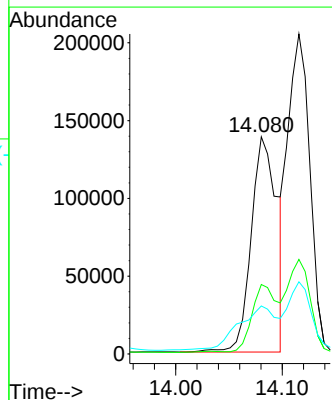
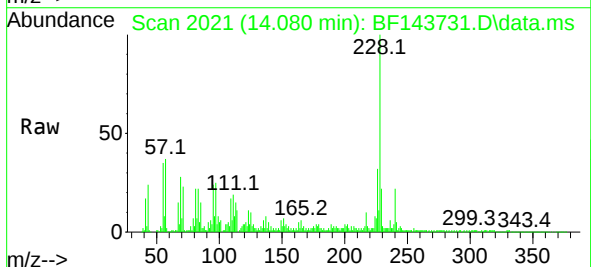
Instrument :
 BNA_F
 ClientSampleId :
 MOO-25-0260

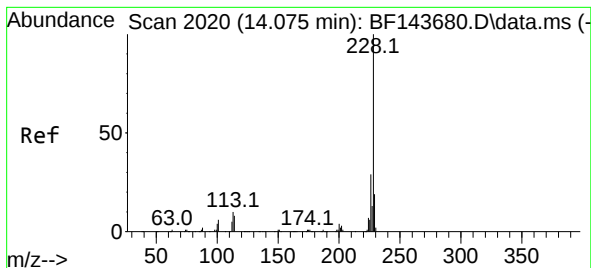
Tgt Ion:244 Resp: 166841
 Ion Ratio Lower Upper
 244 100
 212 7.5 5.0 7.6
 122 15.7 7.9 11.9#



#81
 Benzo(a)anthracene
 Concen: 39.951 ng
 RT: 14.080 min Scan# 2021
 Delta R.T. 0.047 min
 Lab File: BF143731.D
 Acq: 12 Sep 2025 14:13

Tgt Ion:228 Resp: 234797
 Ion Ratio Lower Upper
 228 100
 226 32.0 21.6 32.4
 229 22.1 15.7 23.5





#83

Chrysene

Concen: 54.273 ng

RT: 14.116 min Scan# 20

Delta R.T. 0.041 min

Lab File: BF143731.D

Acq: 12 Sep 2025 14:13

Instrument :

BNA_F

ClientSampleId :

MOO-25-0260

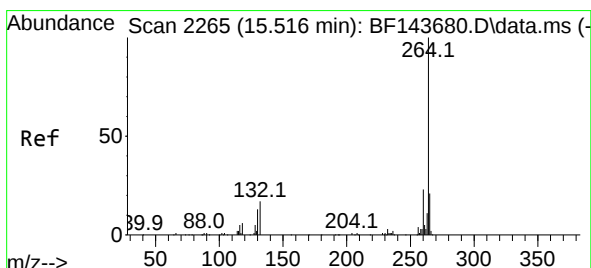
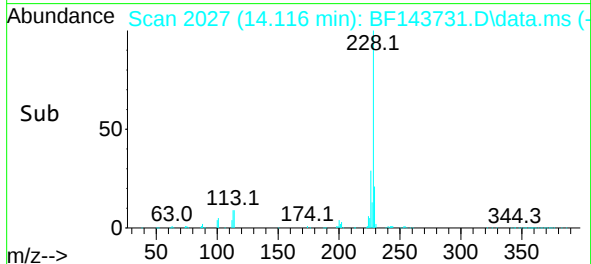
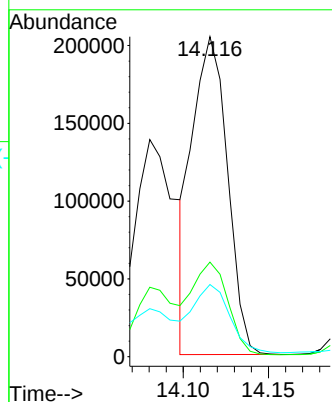
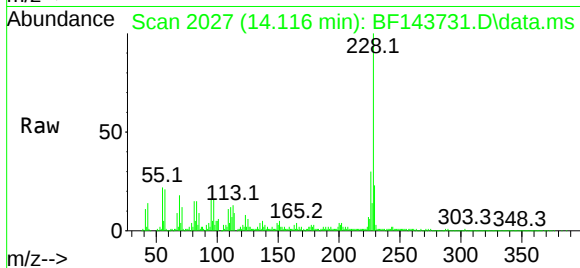
Tgt Ion:228 Resp: 292132

Ion Ratio Lower Upper

228 100

226 29.6 22.7 34.1

229 22.6 15.1 22.7



#86

Perylene-d12

Concen: 20.000 ng

RT: 15.569 min Scan# 2274

Delta R.T. 0.053 min

Lab File: BF143731.D

Acq: 12 Sep 2025 14:13

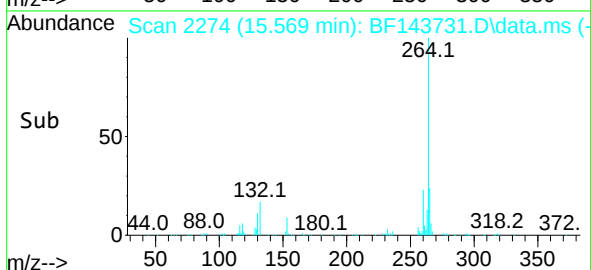
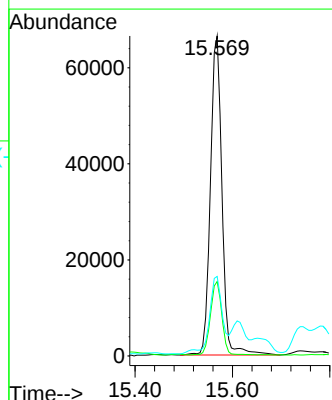
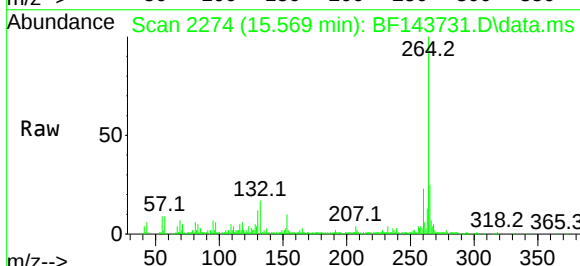
Tgt Ion:264 Resp: 108928

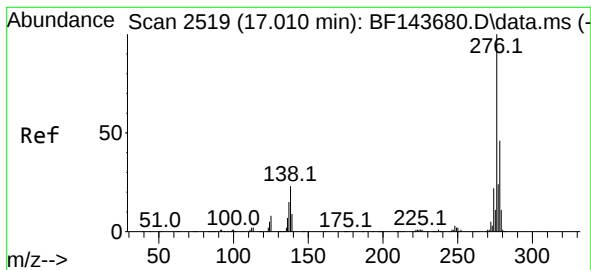
Ion Ratio Lower Upper

264 100

260 23.3 18.4 27.6

265 24.8 17.1 25.7





#87

Indeno(1,2,3-cd)pyrene

Concen: 19.435 ng

RT: 17.057 min Scan# 21

Delta R.T. 0.047 min

Lab File: BF143731.D

Acq: 12 Sep 2025 14:13

Instrument :

BNA_F

ClientSampleId :

MOO-25-0260

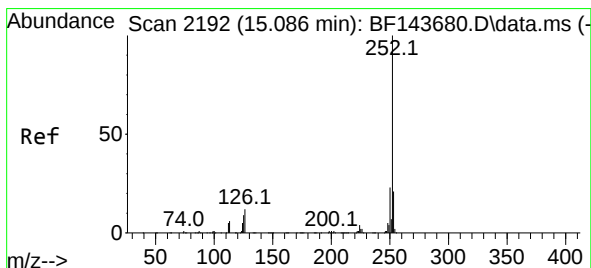
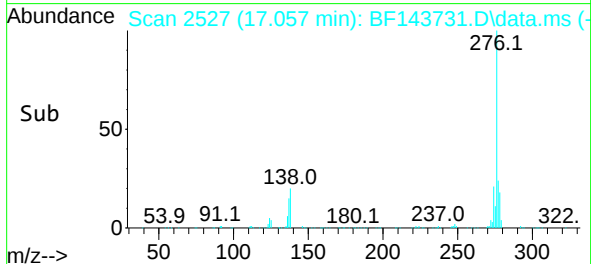
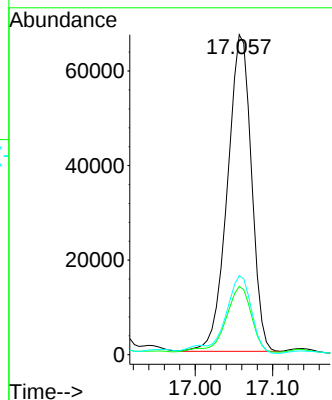
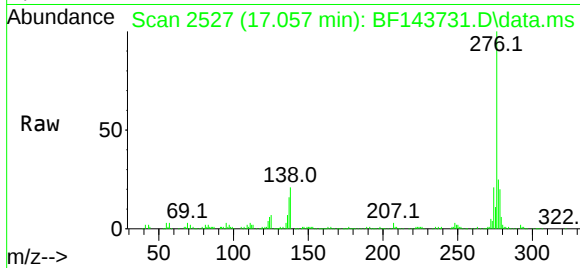
Tgt Ion:276 Resp: 144483

Ion Ratio Lower Upper

276 100

138 22.1 19.7 29.5

277 27.4 20.2 30.2



#88

Benzo(b)fluoranthene

Concen: 136.284 ng

RT: 15.145 min Scan# 2202

Delta R.T. 0.059 min

Lab File: BF143731.D

Acq: 12 Sep 2025 14:13

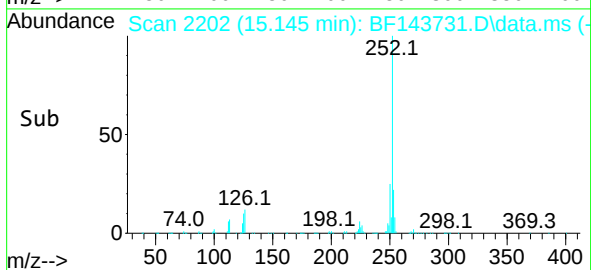
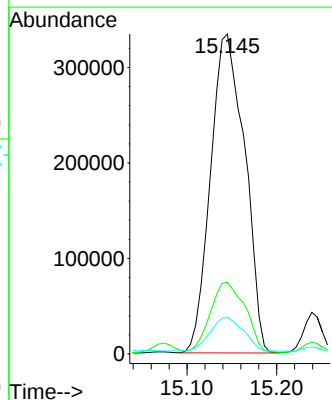
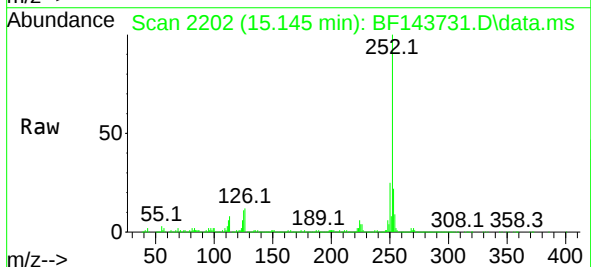
Tgt Ion:252 Resp: 883704

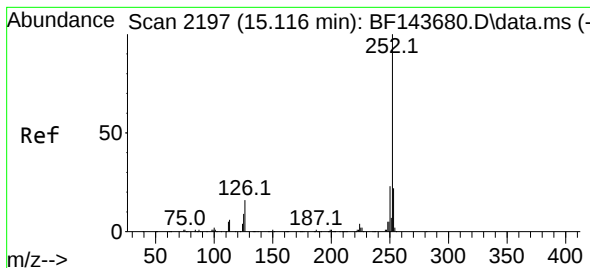
Ion Ratio Lower Upper

252 100

253 22.4 17.0 25.4

125 11.4 7.4 11.0#





#89

Benzo(k)fluoranthene

Concen: 151.006 ng

RT: 15.145 min Scan# 21

Delta R.T. 0.029 min

Lab File: BF143731.D

Acq: 12 Sep 2025 14:13

Instrument :

BNA_F

ClientSampleId :

MOO-25-0260

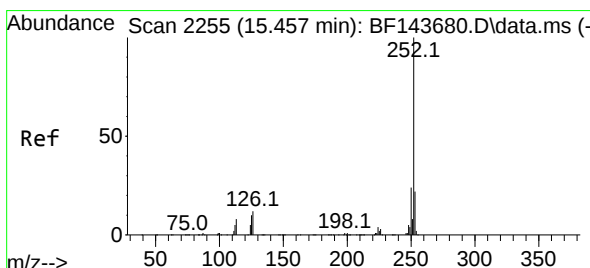
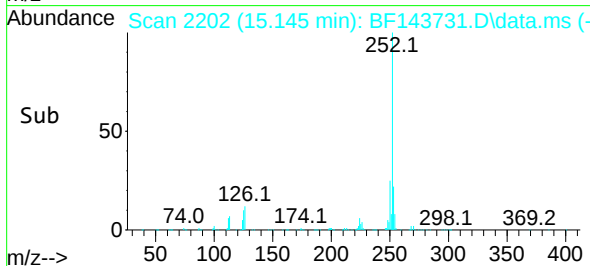
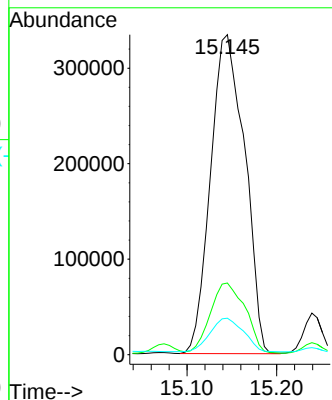
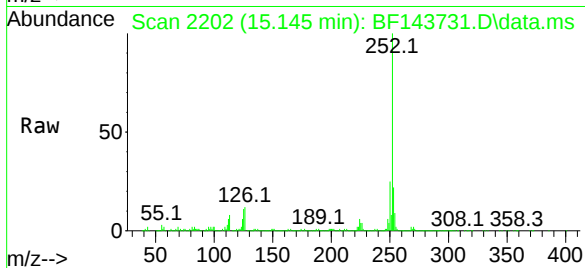
Tgt Ion:252 Resp: 883704

Ion Ratio Lower Upper

252 100

253 22.4 17.3 25.9

125 11.4 7.3 10.9#



#90

Benzo(a)pyrene

Concen: 45.338 ng

RT: 15.510 min Scan# 2264

Delta R.T. 0.053 min

Lab File: BF143731.D

Acq: 12 Sep 2025 14:13

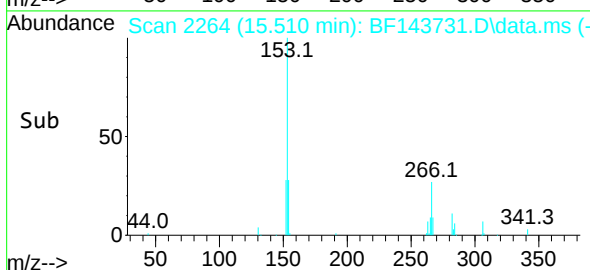
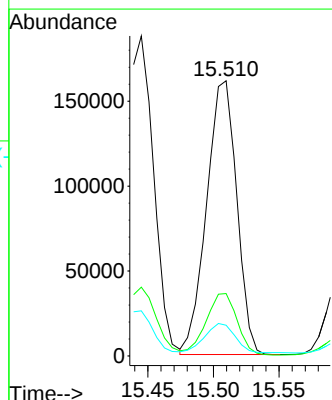
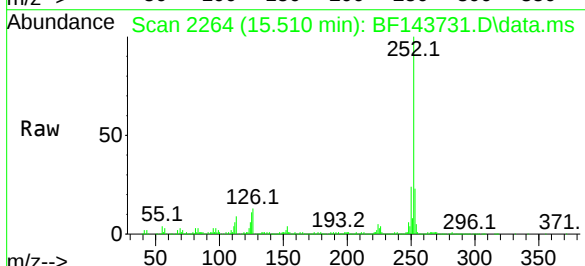
Tgt Ion:252 Resp: 258273

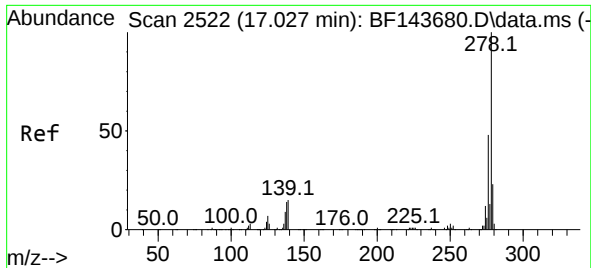
Ion Ratio Lower Upper

252 100

253 22.7 17.4 26.0

125 11.2 8.2 12.4

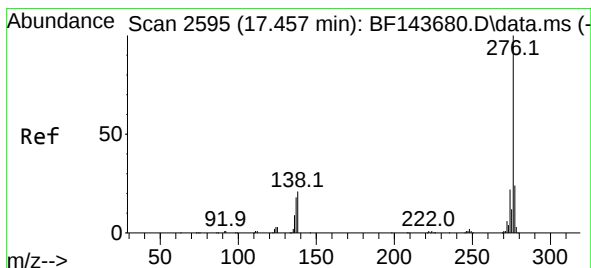
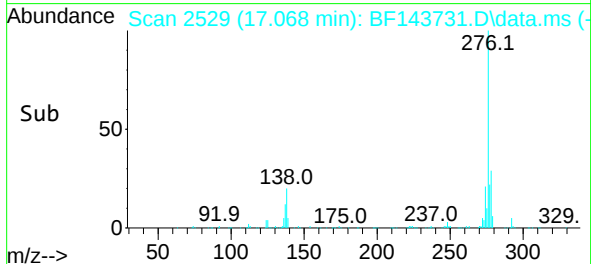
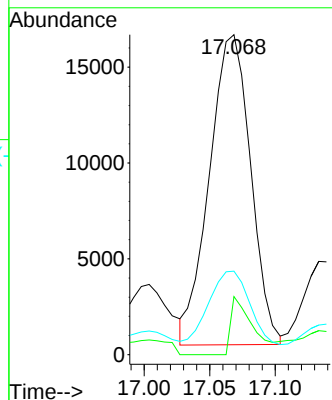
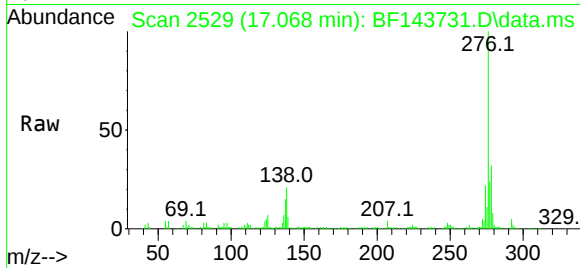




#91
Dibenzo(a,h)anthracene
Concen: 5.739 ng
RT: 17.068 min Scan# 21
Delta R.T. 0.041 min
Lab File: BF143731.D
Acq: 12 Sep 2025 14:13

Instrument :
BNA_F
ClientSampleId :
MOO-25-0260

Tgt Ion:278 Resp: 35394
Ion Ratio Lower Upper
278 100
139 18.1 12.2 18.4
279 26.1 18.7 28.1



#92
Benzo(g,h,i)perylene
Concen: 19.018 ng
RT: 17.510 min Scan# 2604
Delta R.T. 0.053 min
Lab File: BF143731.D
Acq: 12 Sep 2025 14:13

Tgt Ion:276 Resp: 109719
Ion Ratio Lower Upper
276 100
277 23.4 19.2 28.8
138 23.3 17.0 25.4

