

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF062325\
 Data File : BF142803.D
 Acq On : 23 Jun 2025 13:12
 Operator : RC/JU
 Sample : PB168544TB
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

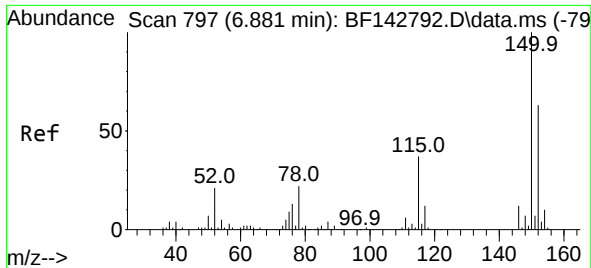
Instrument :
 BNA_F
 ClientSampleId :
 PB168544TB

Quant Time: Jun 24 06:40:02 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	6.875	152	96843	20.000	ng	0.00
21) Naphthalene-d8	8.163	136	367745	20.000	ng	0.00
39) Acenaphthene-d10	9.922	164	198814	20.000	ng	0.00
64) Phenanthrene-d10	11.410	188	348592	20.000	ng	0.00
76) Chrysene-d12	14.051	240	205315	20.000	ng	0.00
86) Perylene-d12	15.545	264	163065	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.510	112	810767	139.387	ng	0.02
7) Phenol-d6	6.510	99	975007	142.077	ng	0.00
23) Nitrobenzene-d5	7.440	82	602430	89.855	ng	0.00
42) 2,4,6-Tribromophenol	10.710	330	307456	150.277	ng	0.00
45) 2-Fluorobiphenyl	9.239	172	1274819	84.234	ng	0.00
79) Terphenyl-d14	12.998	244	1312638	88.336	ng	0.00
Target Compounds						Qvalue
9) Benzaldehyde	6.510	77	1569	0.385	ng	# 1
10) Phenol	6.510	94	54	0.007	ng	# 1
15) Benzyl Alcohol	6.875	79	2371	0.478	ng	# 28
19) n-Nitroso-di-n-propyla...	7.440	70	81478	20.414	ng	# 76
24) Nitrobenzene	7.445	77	1950	0.321	ng	# 35
25) Isophorone	7.440	82	598827	55.679	ng	# 62
38) 1-Methylnaphthalene	9.239	142	518	0.045	ng	# 81
46) 1,1'-Biphenyl	9.239	154	2353	0.150	ng	# 1
48) 2-Nitroaniline	9.239	65	1898	0.574	ng	# 1
51) 2,6-Dinitrotoluene	9.916	165	25612	9.062	ng	# 27
52) Acenaphthene	9.922	154	667	0.056	ng	# 5
57) 2,4-Dinitrotoluene	9.916	165	25612	6.822	ng	# 28
58) Fluorene	10.710	166	12071	0.911	ng	# 89
63) Azobenzene	10.710	77	1196	0.106	ng	# 1
65) 4,6-Dinitro-2-methylph...	10.710	198	674	0.320	ng	# 1
66) n-Nitrosodiphenylamine	10.710	169	8854	0.733	ng	# 43
67) 4-Bromophenyl-phenylether	10.710	248	18906	4.765	ng	# 1
77) Benzidine	12.998	184	17114	2.219	ng	# 94
78) Pyrene	12.998	202	4474	0.232	ng	# 70
81) Benzo(a)anthracene	14.051	228	451	0.033	ng	# 52
83) Chrysene	14.051	228	451	0.036	ng	# 50
90) Benzo(a)pyrene	15.545	252	455	0.050	ng	# 60

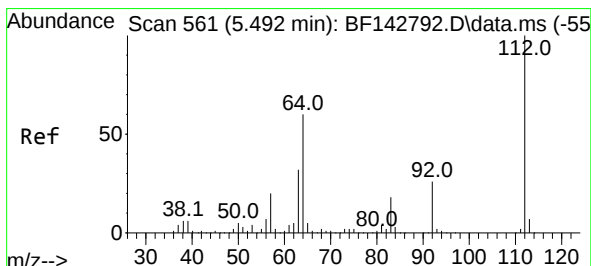
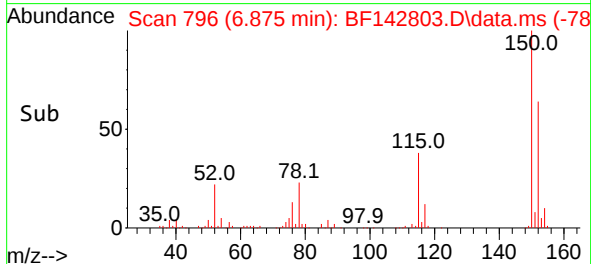
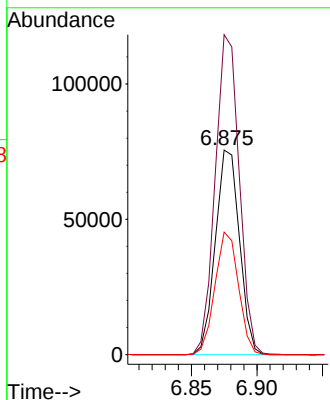
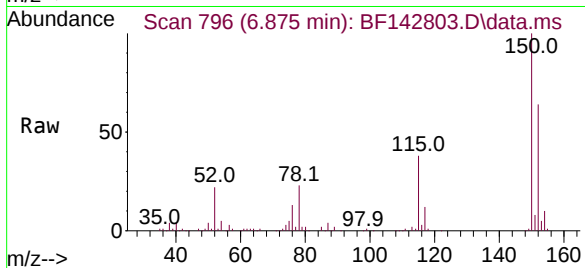
(#) = qualifier out of range (m) = manual integration (+) = signals summed



#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.875 min Scan# 797
Delta R.T. -0.006 min
Lab File: BF142803.D
Acq: 23 Jun 2025 13:12

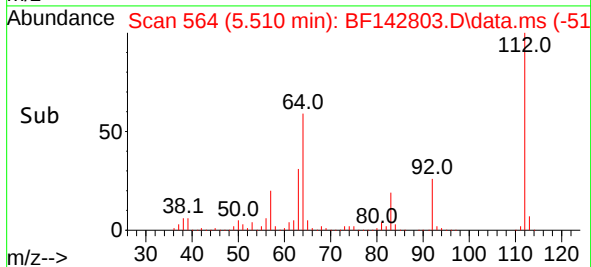
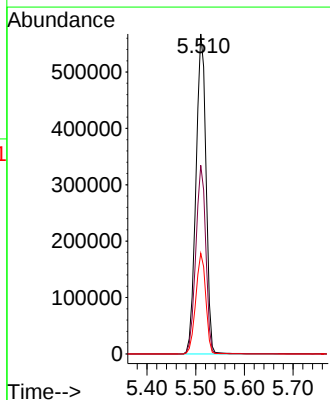
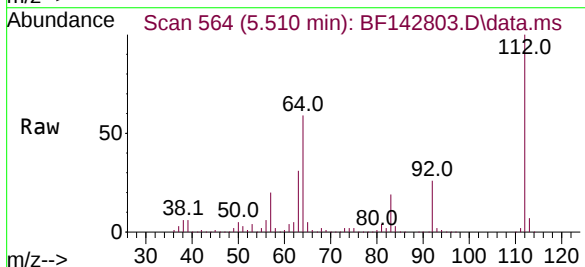
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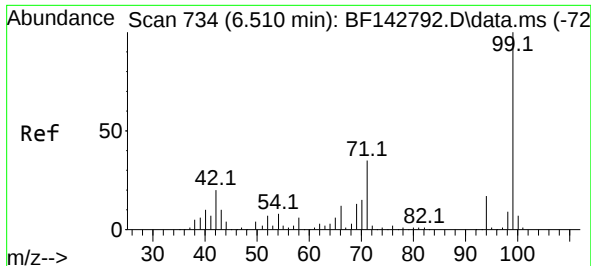
Tgt Ion:152 Resp: 96843
Ion Ratio Lower Upper
152 100
150 156.4 127.2 190.8
115 59.9 46.6 69.8



#5
2-Fluorophenol
Concen: 139.387 ng
RT: 5.510 min Scan# 564
Delta R.T. 0.018 min
Lab File: BF142803.D
Acq: 23 Jun 2025 13:12

Tgt Ion:112 Resp: 810767
Ion Ratio Lower Upper
112 100
64 58.9 48.2 72.2
63 31.4 25.7 38.5

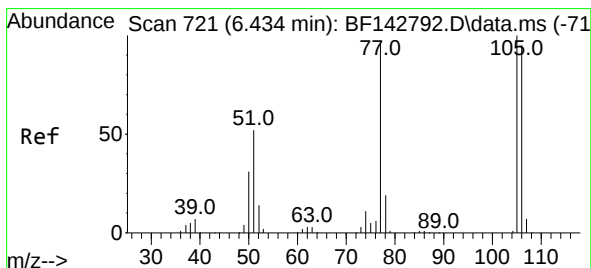
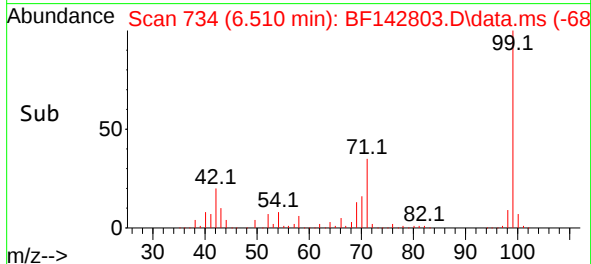
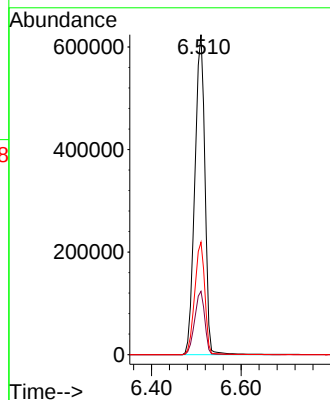
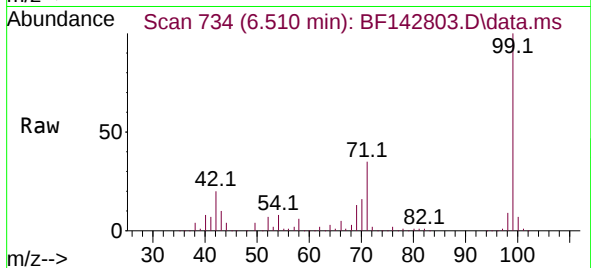




#7
Phenol-d6
Concen: 142.077 ng
RT: 6.510 min Scan# 734
Delta R.T. 0.000 min
Lab File: BF142803.D
Acq: 23 Jun 2025 13:12

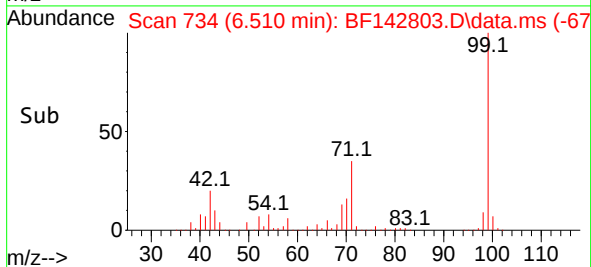
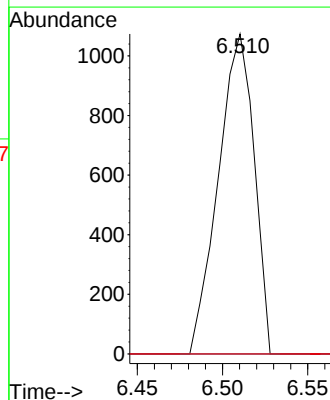
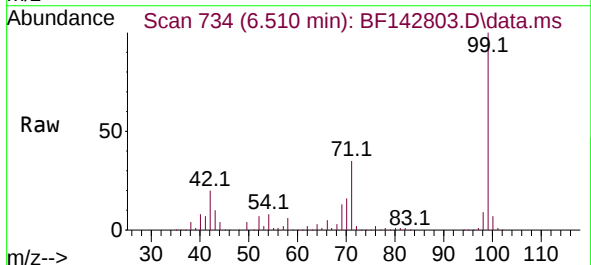
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BNA_F
ClientSampleId :
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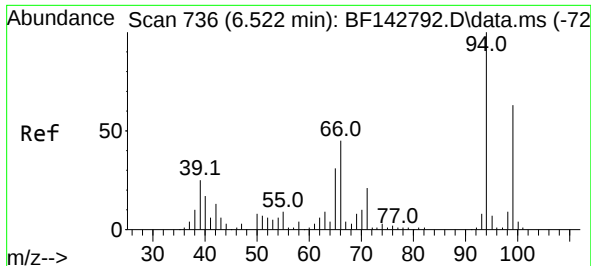
Tgt Ion: 99 Resp: 975007
Ion Ratio Lower Upper
99 100
42 19.8 15.9 23.9
71 35.1 27.8 41.8



#9
Benzaldehyde
Concen: 0.385 ng
RT: 6.510 min Scan# 734
Delta R.T. 0.076 min
Lab File: BF142803.D
Acq: 23 Jun 2025 13:12

Tgt Ion: 77 Resp: 1569
Ion Ratio Lower Upper
77 100
105 0.0 83.8 123.8#
106 0.0 78.7 118.7#

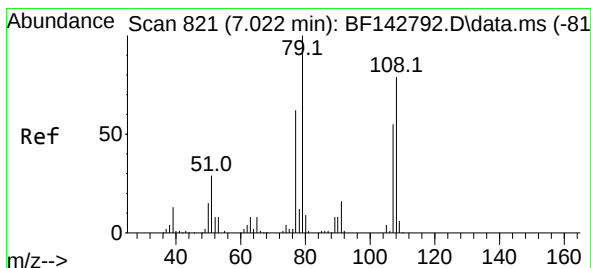
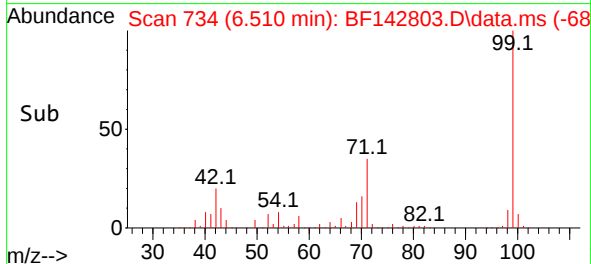
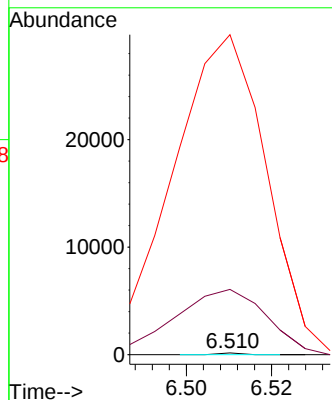
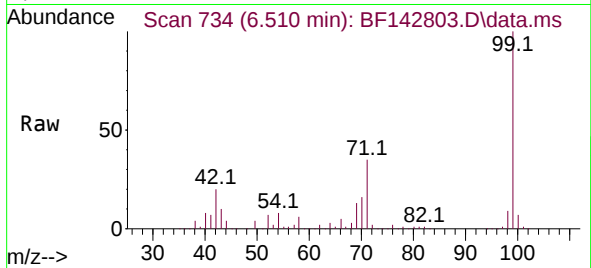




#10
Phenol
Concen: 0.007 ng
RT: 6.510 min Scan# 714
Delta R.T. -0.012 min
Lab File: BF142803.D
Acq: 23 Jun 2025 13:12

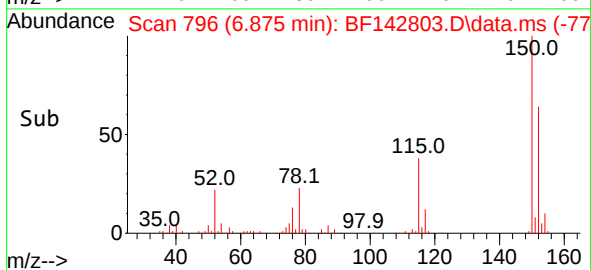
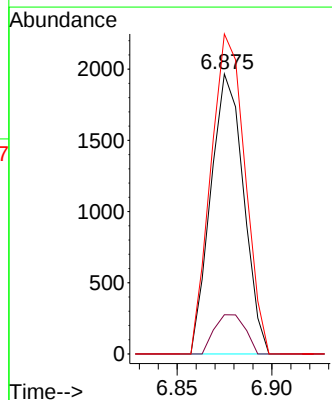
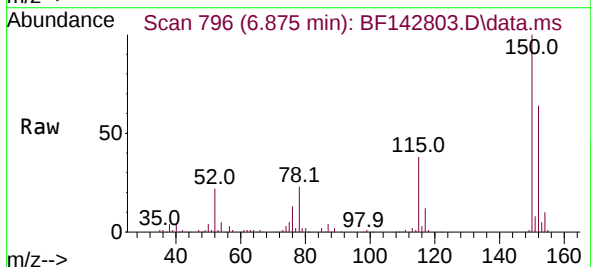
Instrument :
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ClientSampleId :
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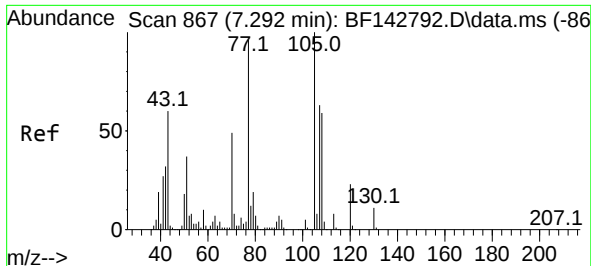
Tgt Ion: 94 Resp: 54
Ion Ratio Lower Upper
94 100
65 3942.2 11.3 51.3#
66 19329.9 24.9 64.9#



#15
Benzyl Alcohol
Concen: 0.478 ng
RT: 6.875 min Scan# 796
Delta R.T. -0.147 min
Lab File: BF142803.D
Acq: 23 Jun 2025 13:12

Tgt Ion: 79 Resp: 2371
Ion Ratio Lower Upper
79 100
108 14.0 63.4 95.0#
77 114.3 49.5 74.3#

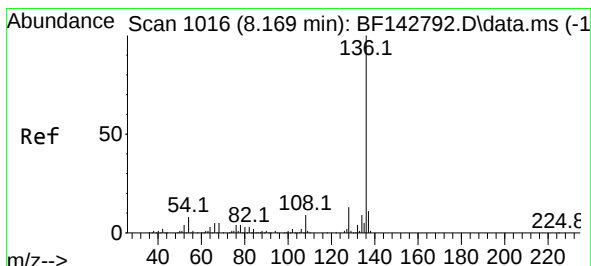
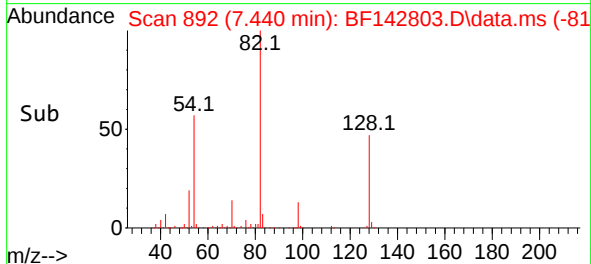
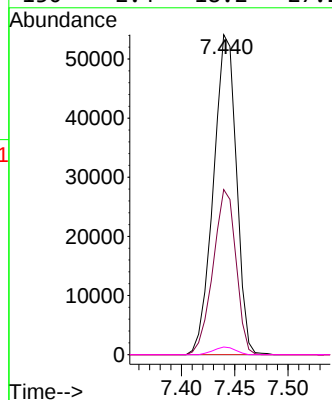
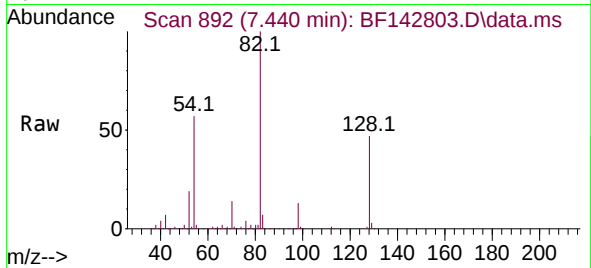




#19
n-Nitroso-di-n-propylamine
Concen: 20.414 ng
RT: 7.440 min Scan# 89
Delta R.T. 0.147 min
Lab File: BF142803.D
Acq: 23 Jun 2025 13:12

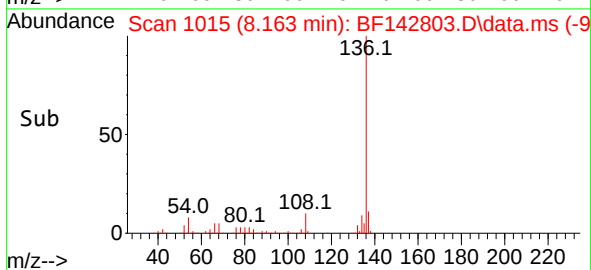
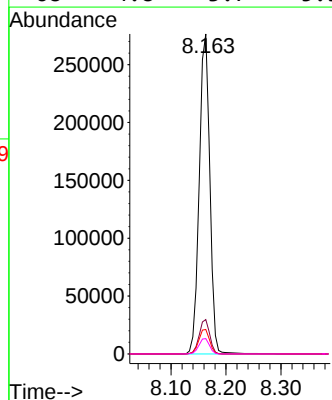
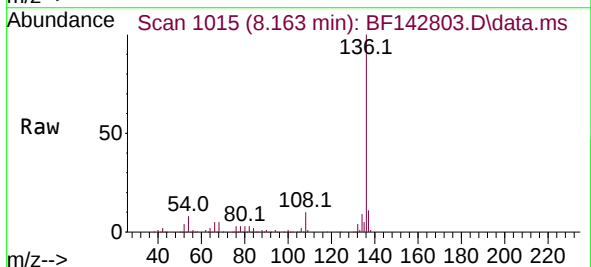
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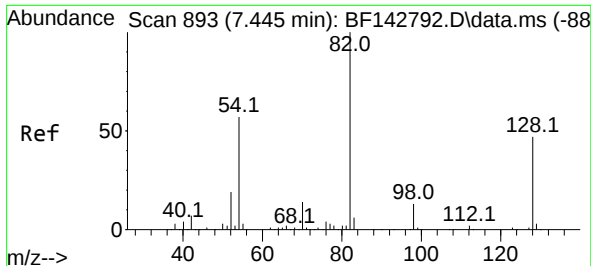
Tgt Ion: 70 Resp: 81478
Ion Ratio Lower Upper
70 100
42 51.6 52.1 78.1#
101 0.0 8.2 12.2#
130 2.4 18.2 27.2#



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.163 min Scan# 1015
Delta R.T. -0.006 min
Lab File: BF142803.D
Acq: 23 Jun 2025 13:12

Tgt Ion:136 Resp: 367745
Ion Ratio Lower Upper
136 100
137 10.7 8.4 12.6
54 7.6 6.3 9.5
68 4.8 3.7 5.5





#23

Nitrobenzene-d5

Concen: 89.855 ng

RT: 7.440 min Scan# 893

Delta R.T. -0.005 min

Lab File: BF142803.D

Acq: 23 Jun 2025 13:12

Instrument :

BNA_F

ClientSampleId :

PB168544TB

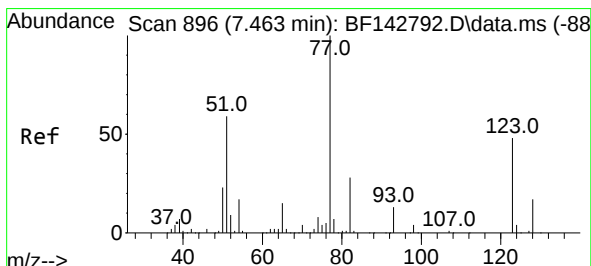
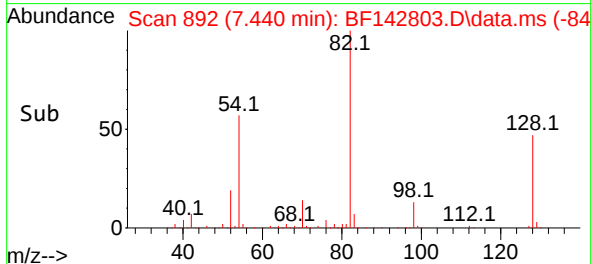
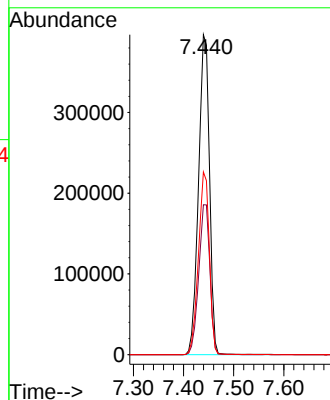
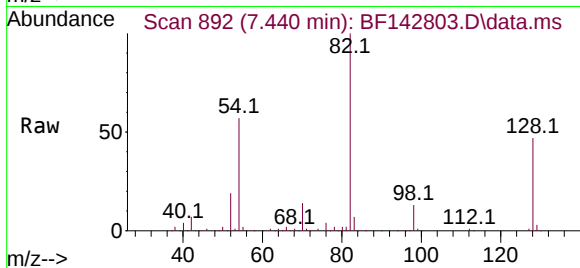
Tgt Ion: 82 Resp: 602430

Ion Ratio Lower Upper

82 100

128 46.8 37.7 56.5

54 57.1 45.7 68.5



#24

Nitrobenzene

Concen: 0.321 ng

RT: 7.445 min Scan# 893

Delta R.T. -0.017 min

Lab File: BF142803.D

Acq: 23 Jun 2025 13:12

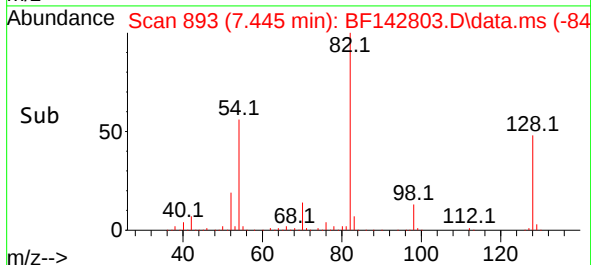
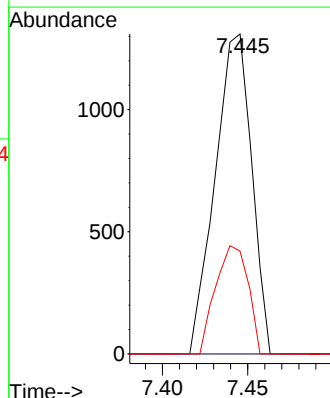
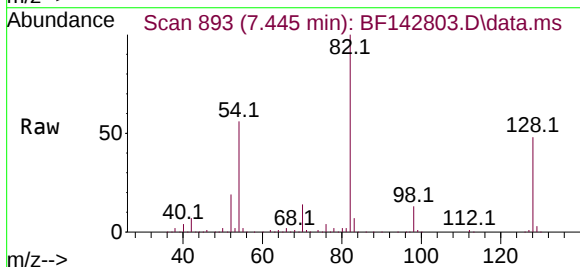
Tgt Ion: 77 Resp: 1950

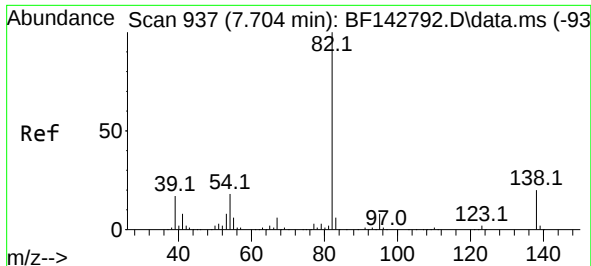
Ion Ratio Lower Upper

77 100

123 0.0 39.2 58.8#

65 32.1 11.6 17.4#

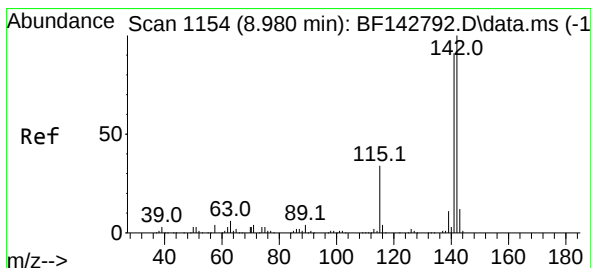
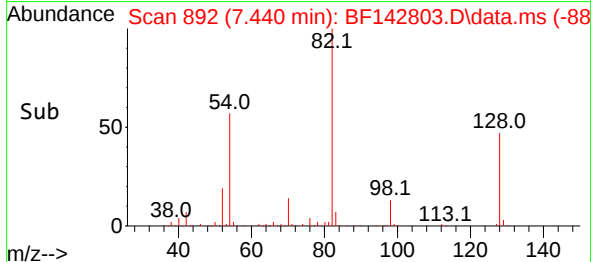
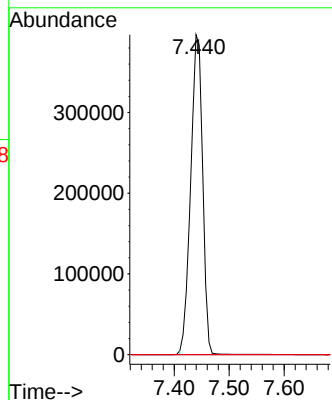
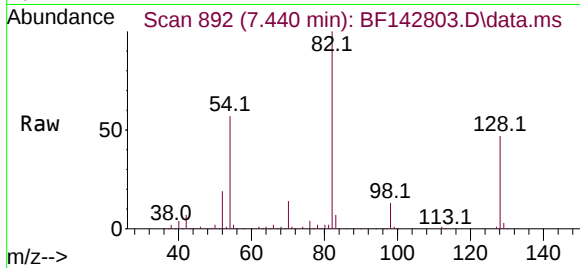




#25
Isophorone
Concen: 55.679 ng
RT: 7.440 min Scan# 89
Delta R.T. -0.264 min
Lab File: BF142803.D
Acq: 23 Jun 2025 13:12

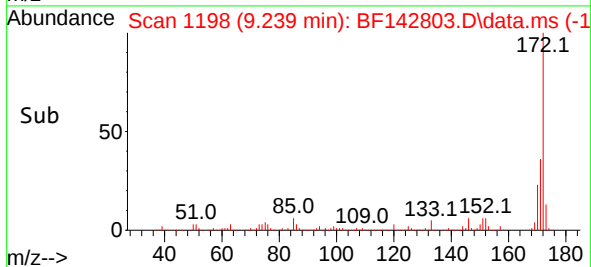
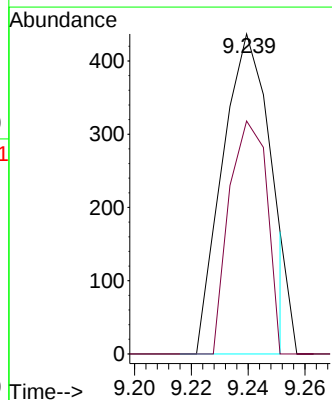
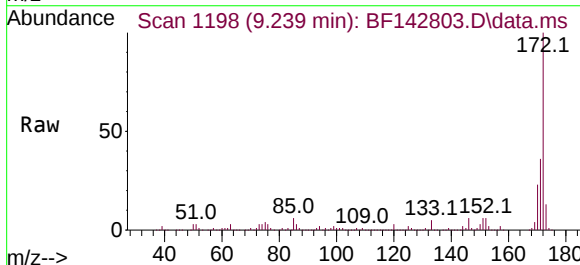
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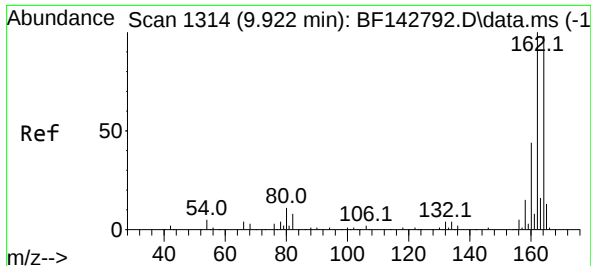
Tgt Ion: 82 Resp: 598827
Ion Ratio Lower Upper
82 100
95 0.0 6.2 9.2#
138 0.0 16.2 24.4#



#38
1-Methylnaphthalene
Concen: 0.045 ng
RT: 9.239 min Scan# 1198
Delta R.T. 0.259 min
Lab File: BF142803.D
Acq: 23 Jun 2025 13:12

Tgt Ion: 142 Resp: 518
Ion Ratio Lower Upper
142 100
141 72.8 73.0 109.4#

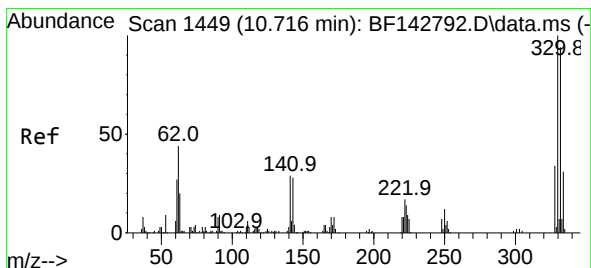
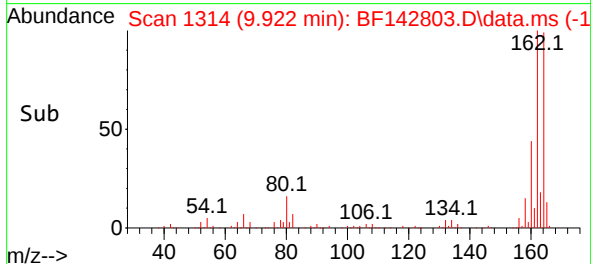
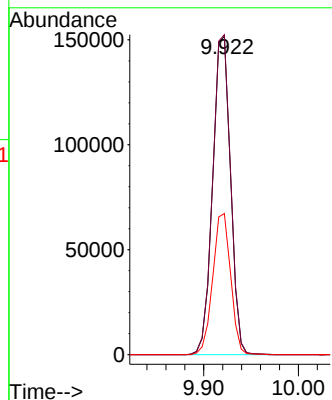
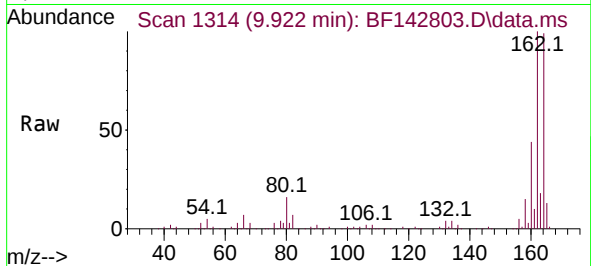




#39
 Acenaphthene-d10
 Concen: 20.000 ng
 RT: 9.922 min Scan# 1314
 Delta R.T. 0.000 min
 Lab File: BF142803.D
 Acq: 23 Jun 2025 13:12

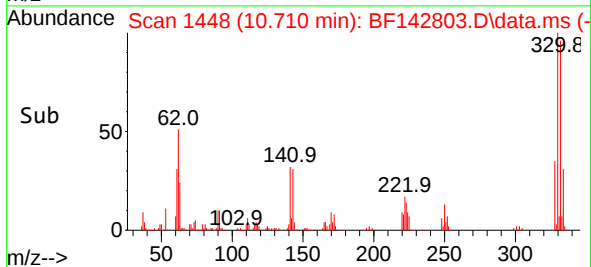
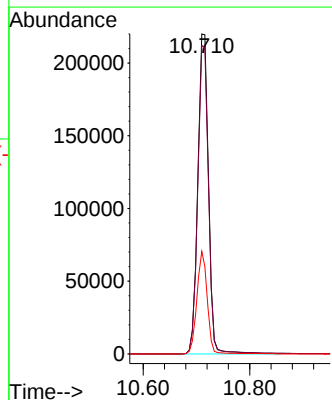
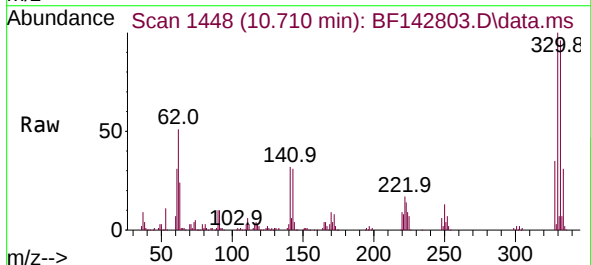
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 ClientSampleId :
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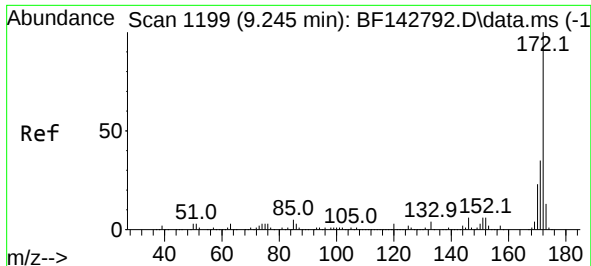
Tgt Ion:164 Resp: 198814
 Ion Ratio Lower Upper
 164 100
 162 100.5 81.8 122.8
 160 44.3 36.0 54.0



#42
 2,4,6-Tribromophenol
 Concen: 150.277 ng
 RT: 10.710 min Scan# 1448
 Delta R.T. -0.006 min
 Lab File: BF142803.D
 Acq: 23 Jun 2025 13:12

Tgt Ion:330 Resp: 307456
 Ion Ratio Lower Upper
 330 100
 332 96.6 75.0 112.6
 141 31.0 25.3 37.9





#45

2-Fluorobiphenyl

Concen: 84.234 ng

RT: 9.239 min Scan# 1198

Delta R.T. -0.006 min

Lab File: BF142803.D

Acq: 23 Jun 2025 13:12

Instrument :

BNA_F

ClientSampleId :

PB168544TB

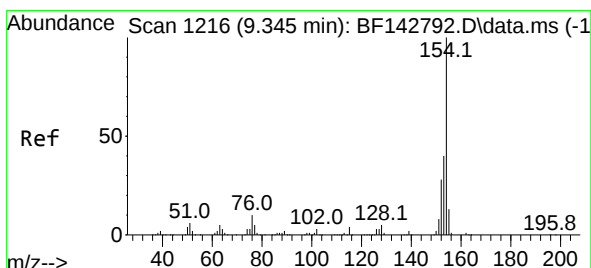
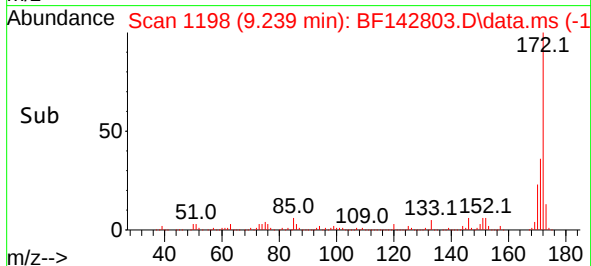
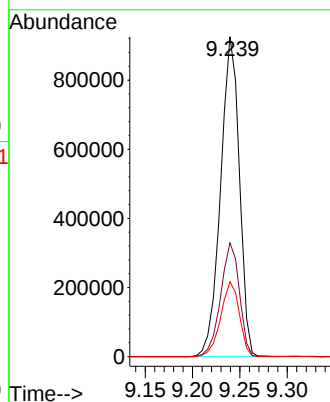
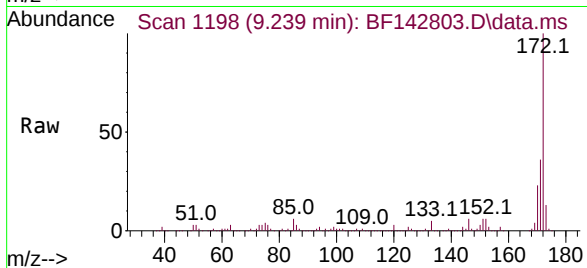
Tgt Ion:172 Resp: 1274819

Ion Ratio Lower Upper

172 100

171 35.5 28.2 42.4

170 23.4 18.5 27.7



#46

1,1'-Biphenyl

Concen: 0.150 ng

RT: 9.239 min Scan# 1198

Delta R.T. -0.106 min

Lab File: BF142803.D

Acq: 23 Jun 2025 13:12

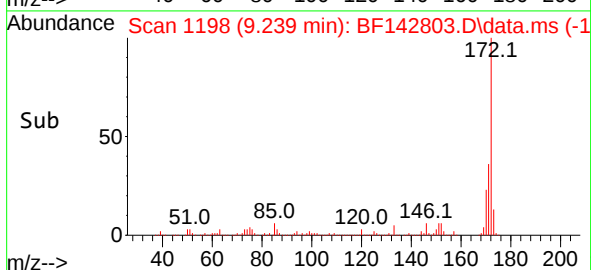
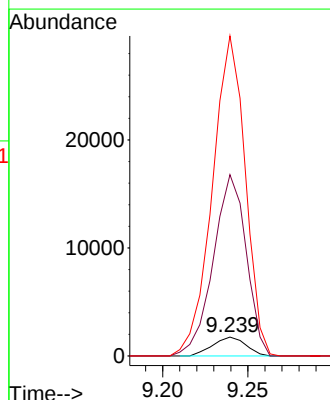
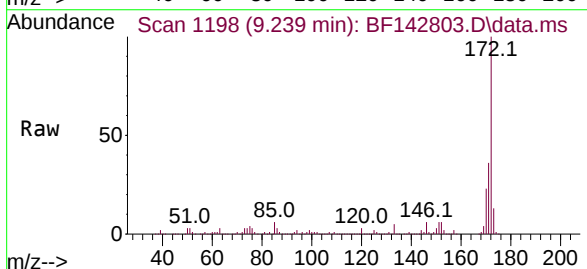
Tgt Ion:154 Resp: 2353

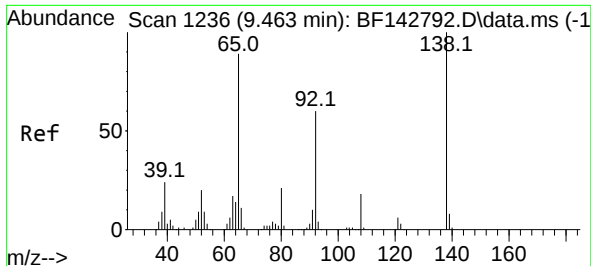
Ion Ratio Lower Upper

154 100

153 965.7 20.3 60.3#

76 1705.4 0.0 30.3#

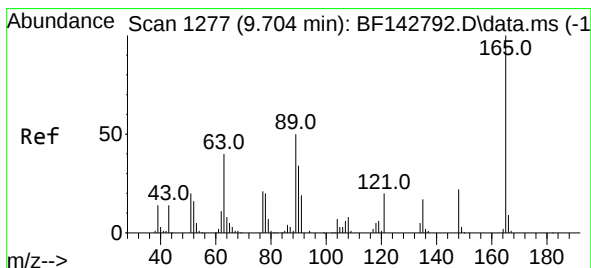
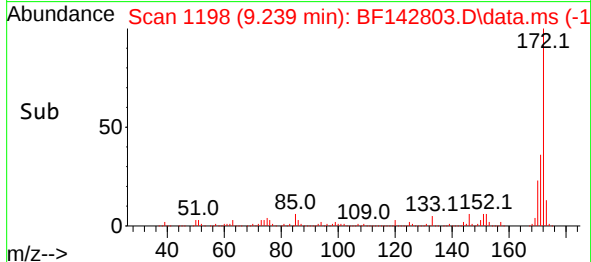
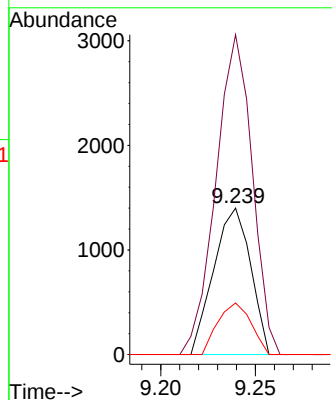
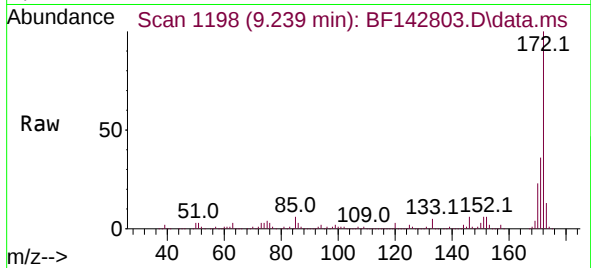




#48
2-Nitroaniline
Concen: 0.574 ng
RT: 9.239 min Scan# 1118
Delta R.T. -0.223 min
Lab File: BF142803.D
Acq: 23 Jun 2025 13:12

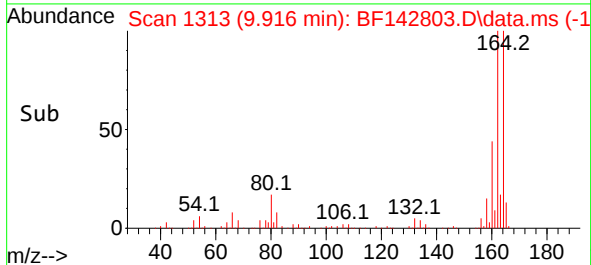
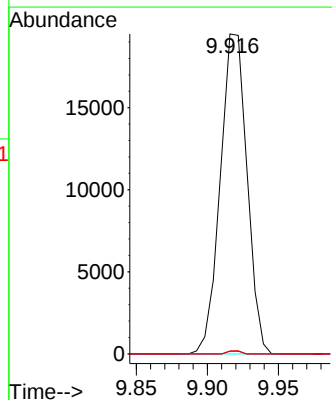
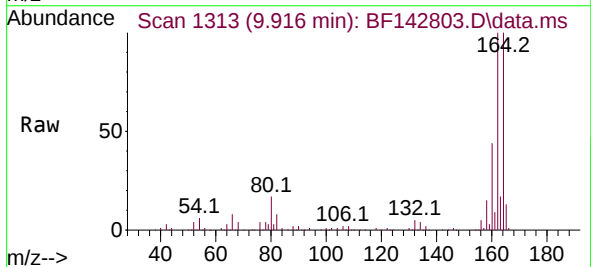
Instrument :
BNA_F
ClientSampleId :
PB168544TB

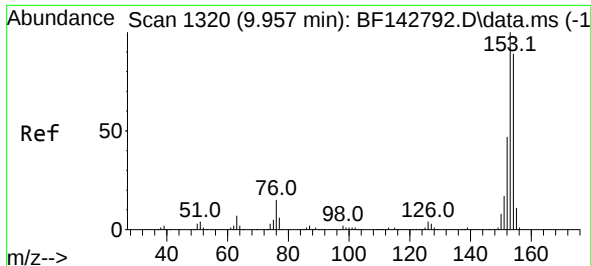
Tgt Ion: 65 Resp: 1898
Ion Ratio Lower Upper
65 100
92 218.5 53.8 80.6#
138 35.2 89.6 134.4#



#51
2,6-Dinitrotoluene
Concen: 9.062 ng
RT: 9.916 min Scan# 1313
Delta R.T. 0.212 min
Lab File: BF142803.D
Acq: 23 Jun 2025 13:12

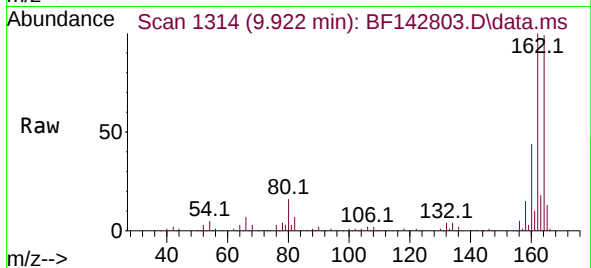
Tgt Ion: 165 Resp: 25612
Ion Ratio Lower Upper
165 100
63 0.8 44.2 66.4#
89 0.9 39.8 59.8#



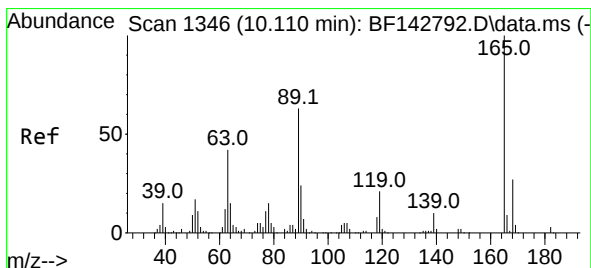
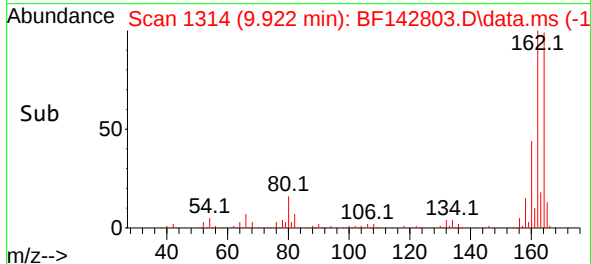
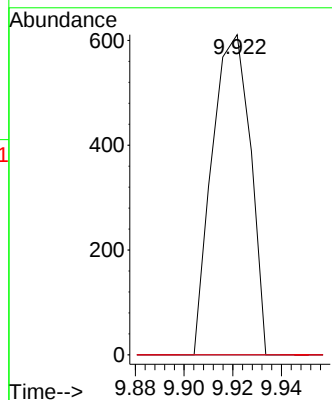


#52
Acenaphthene
Concen: 0.056 ng
RT: 9.922 min Scan# 1314
Delta R.T. -0.035 min
Lab File: BF142803.D
Acq: 23 Jun 2025 13:12

Instrument :
BNA_F
ClientSampleId :
PB168544TB

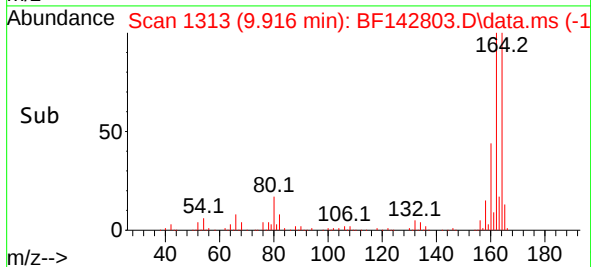
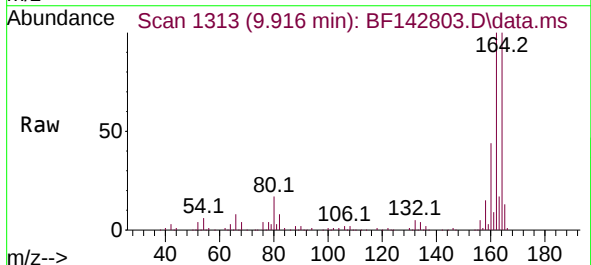
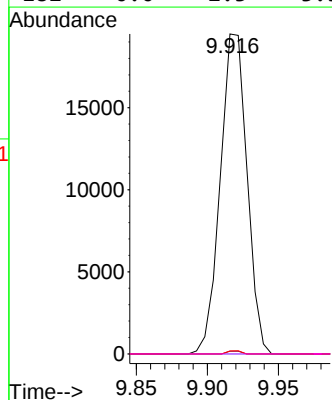


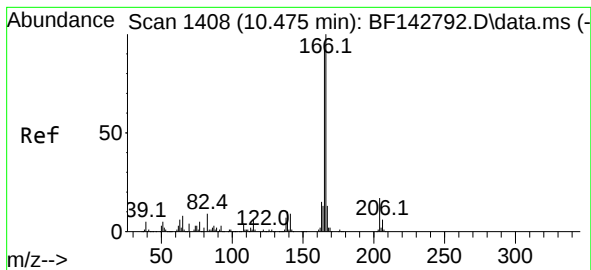
Tgt Ion:154 Resp: 667
Ion Ratio Lower Upper
154 100
153 0.0 90.0 135.0#
152 0.0 41.9 62.9#



#57
2,4-Dinitrotoluene
Concen: 6.822 ng
RT: 9.916 min Scan# 1313
Delta R.T. -0.194 min
Lab File: BF142803.D
Acq: 23 Jun 2025 13:12

Tgt Ion:165 Resp: 25612
Ion Ratio Lower Upper
165 100
63 0.8 33.9 50.9#
89 0.9 50.6 75.8#
182 0.0 2.3 3.5#





#58

Fluorene

Concen: 0.911 ng

RT: 10.710 min Scan# 1448

Delta R.T. 0.235 min

Lab File: BF142803.D

Acq: 23 Jun 2025 13:12

Instrument :

BNA_F

ClientSampleId :

PB168544TB

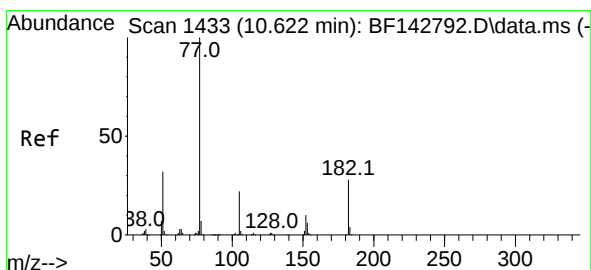
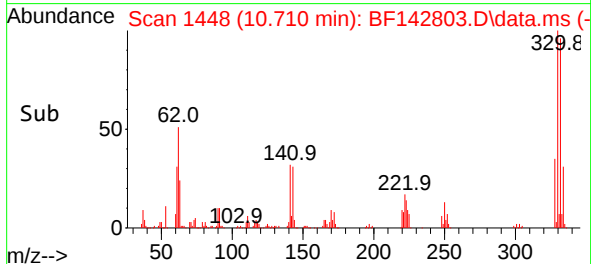
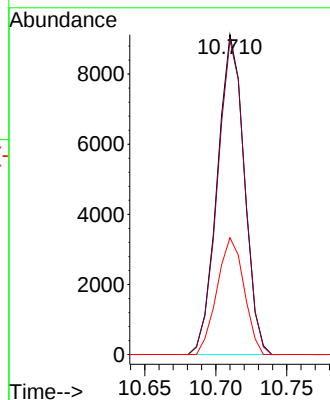
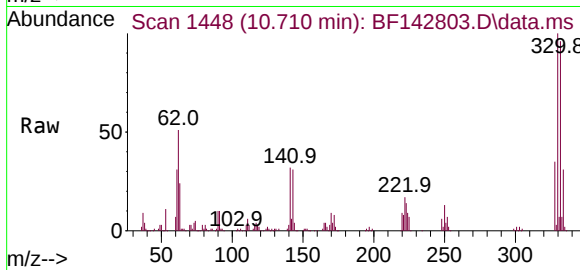
Tgt Ion:166 Resp: 12071

Ion Ratio Lower Upper

166 100

165 98.3 75.2 112.8

167 36.5 10.6 15.8#



#63

Azobenzene

Concen: 0.106 ng

RT: 10.710 min Scan# 1448

Delta R.T. 0.088 min

Lab File: BF142803.D

Acq: 23 Jun 2025 13:12

Tgt Ion: 77 Resp: 1196

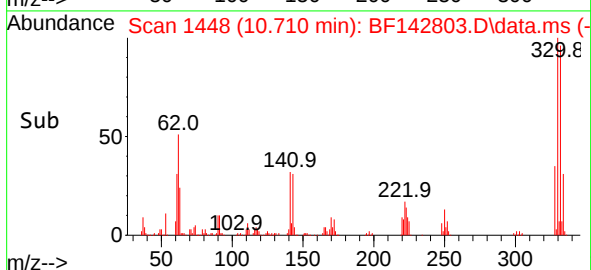
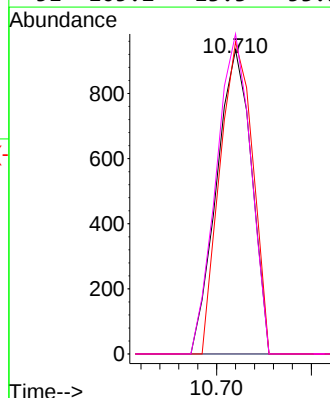
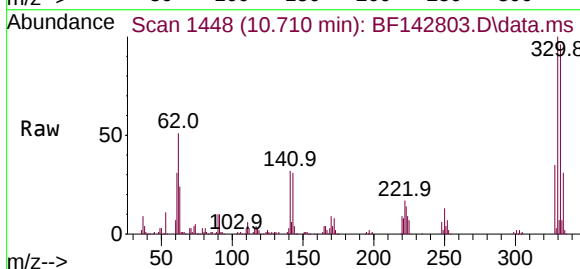
Ion Ratio Lower Upper

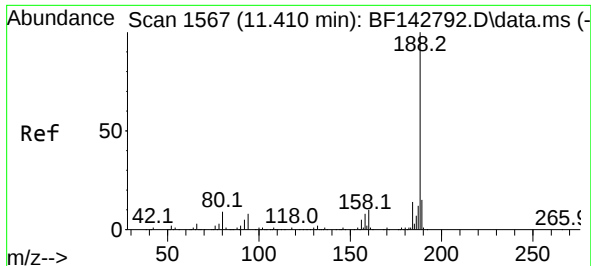
77 100

182 0.0 7.7 47.7#

105 102.6 1.9 41.9#

51 105.2 13.3 53.3#

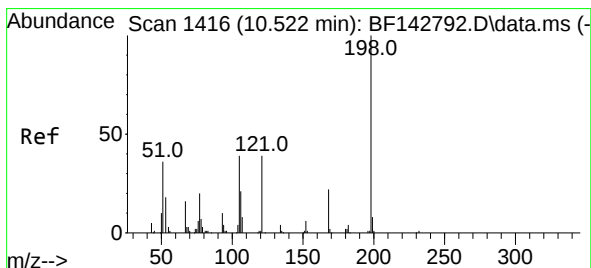
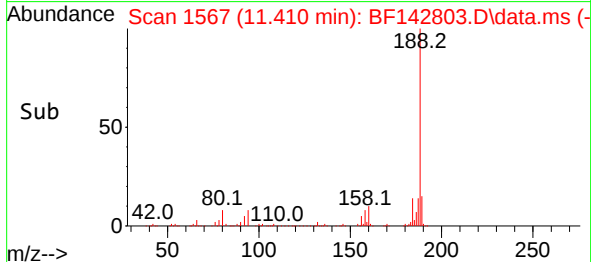
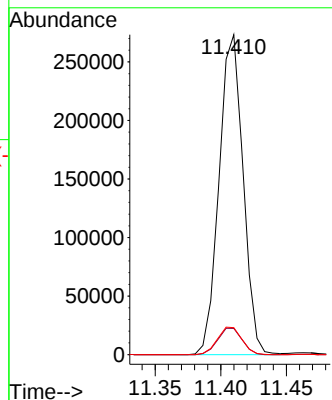
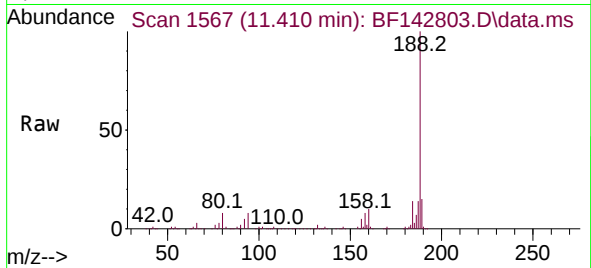




#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.410 min Scan# 11
Delta R.T. 0.000 min
Lab File: BF142803.D
Acq: 23 Jun 2025 13:12

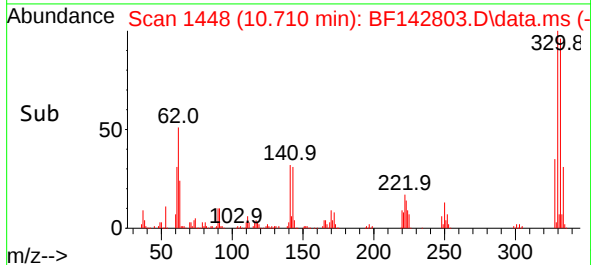
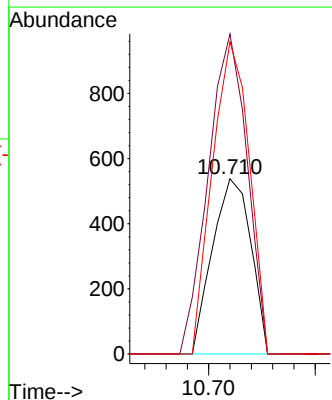
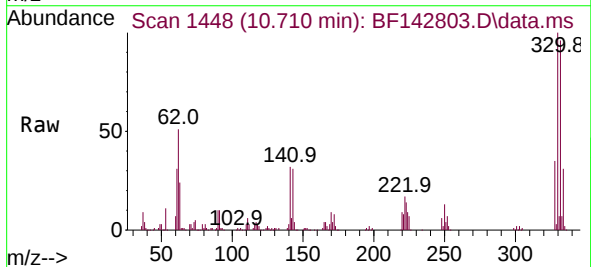
Instrument :
BNA_F
ClientSampleId :
PB168544TB

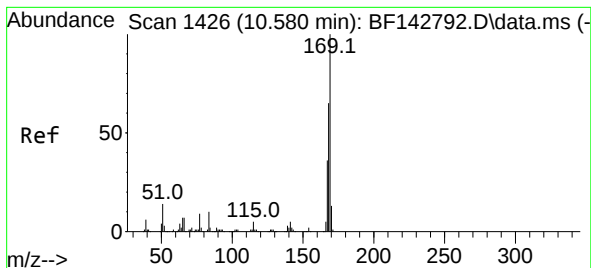
Tgt Ion:188 Resp: 348592
Ion Ratio Lower Upper
188 100
94 8.2 6.7 10.1
80 8.4 6.9 10.3



#65
4,6-Dinitro-2-methylphenol
Concen: 0.320 ng
RT: 10.710 min Scan# 1448
Delta R.T. 0.188 min
Lab File: BF142803.D
Acq: 23 Jun 2025 13:12

Tgt Ion:198 Resp: 674
Ion Ratio Lower Upper
198 100
51 182.7 25.4 65.4#
105 178.1 20.4 60.4#





#66

n-Nitrosodiphenylamine

Concen: 0.733 ng

RT: 10.710 min Scan# 1448

Delta R.T. 0.130 min

Lab File: BF142803.D

Acq: 23 Jun 2025 13:12

Instrument :

BNA_F

ClientSampleId :

PB168544TB

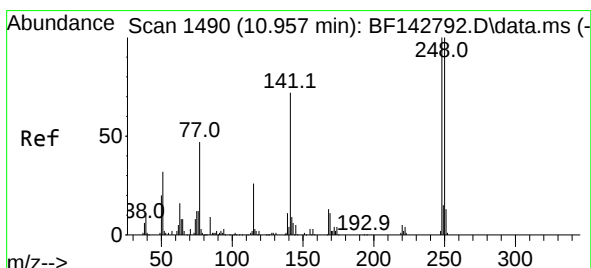
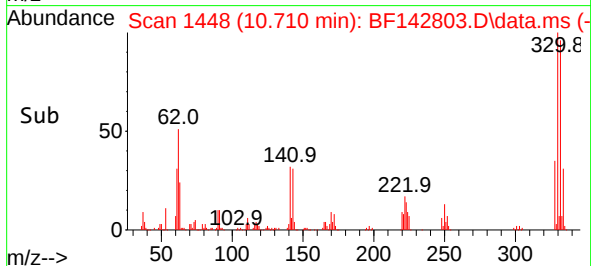
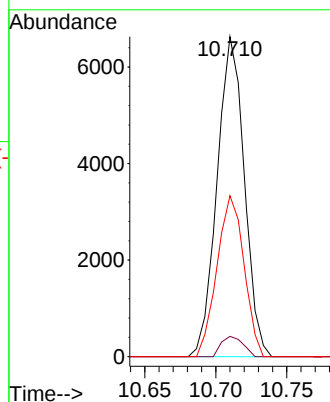
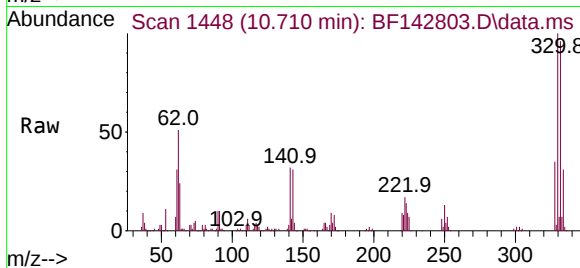
Tgt Ion:169 Resp: 8854

Ion Ratio Lower Upper

169 100

168 6.3 51.9 77.9#

167 50.3 28.5 42.7#



#67

4-Bromophenyl-phenylether

Concen: 4.765 ng

RT: 10.710 min Scan# 1448

Delta R.T. -0.247 min

Lab File: BF142803.D

Acq: 23 Jun 2025 13:12

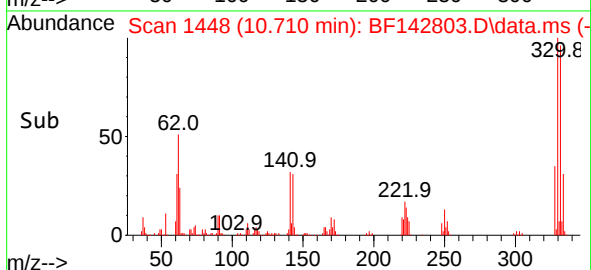
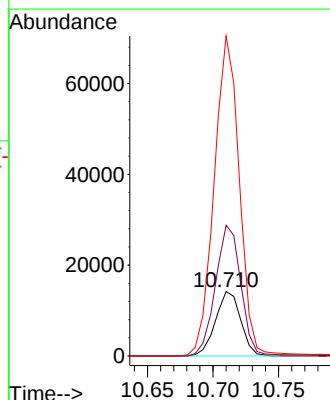
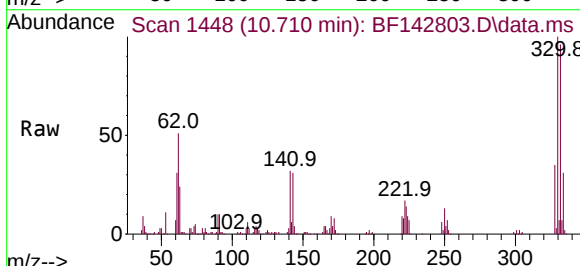
Tgt Ion:248 Resp: 18906

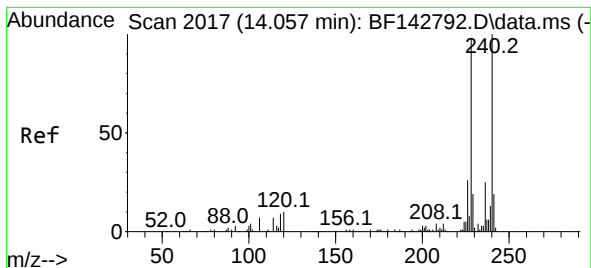
Ion Ratio Lower Upper

248 100

250 202.9 79.8 119.8#

141 497.1 57.8 86.6#





#76

Chrysene-d12

Concen: 20.000 ng

RT: 14.051 min Scan# 20

Delta R.T. -0.006 min

Lab File: BF142803.D

Acq: 23 Jun 2025 13:12

Instrument :

BNA_F

ClientSampleId :

PB168544TB

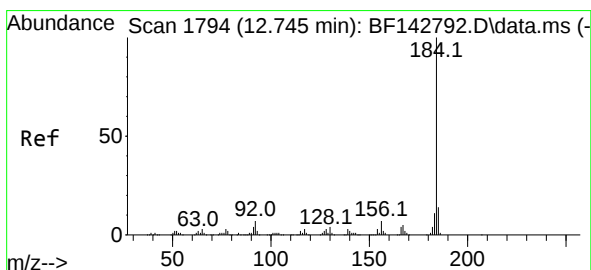
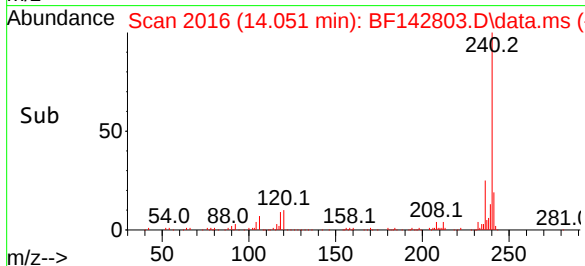
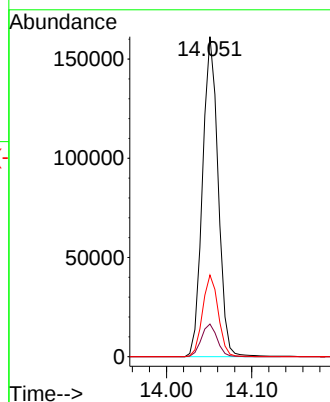
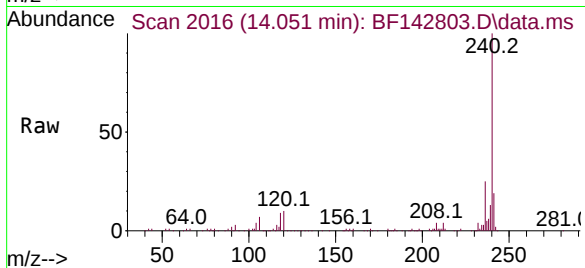
Tgt Ion:240 Resp: 205315

Ion Ratio Lower Upper

240 100

120 10.2 8.2 12.2

236 25.5 19.8 29.8



#77

Benzidine

Concen: 2.219 ng

RT: 12.998 min Scan# 1837

Delta R.T. 0.253 min

Lab File: BF142803.D

Acq: 23 Jun 2025 13:12

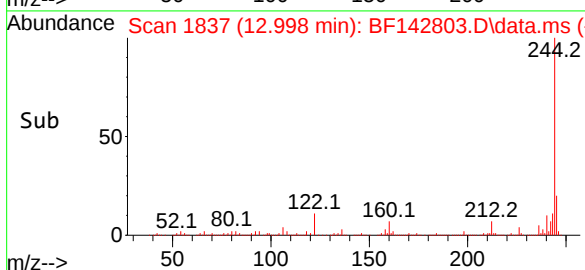
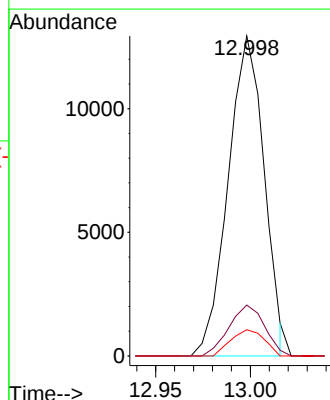
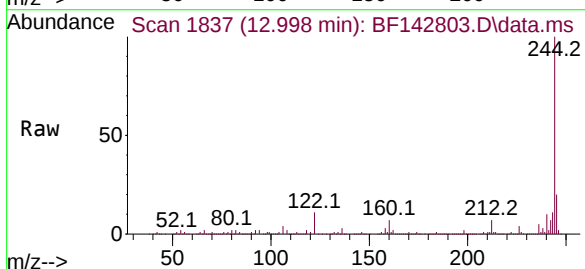
Tgt Ion:184 Resp: 17114

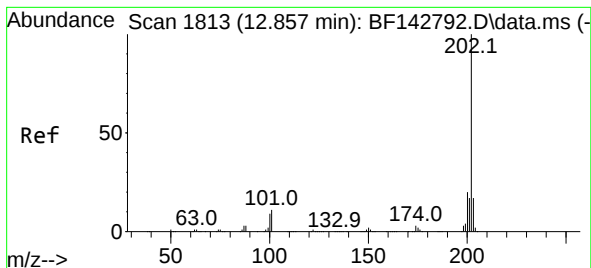
Ion Ratio Lower Upper

184 100

185 15.9 11.5 17.3

183 8.2 9.0 13.4#





#78

Pyrene

Concen: 0.232 ng

RT: 12.998 min Scan# 1837

Delta R.T. 0.141 min

Lab File: BF142803.D

Acq: 23 Jun 2025 13:12

Instrument :

BNA_F

ClientSampleId :

PB168544TB

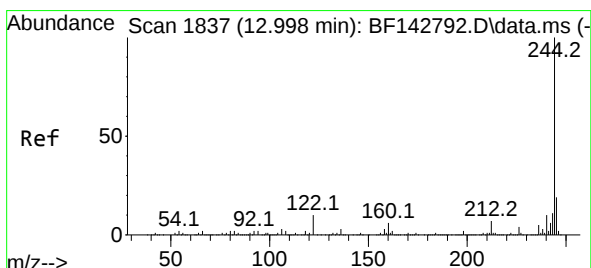
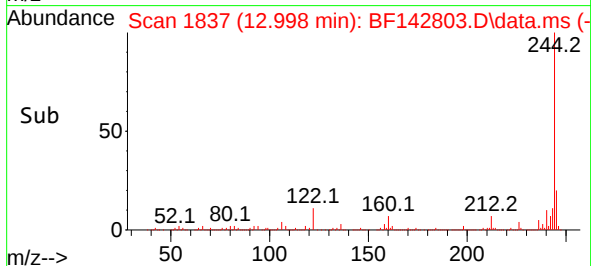
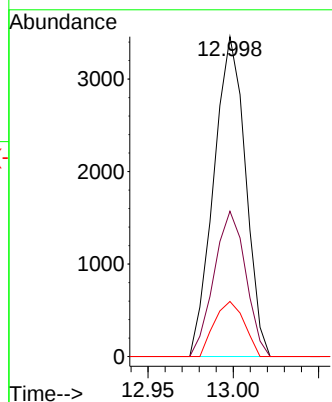
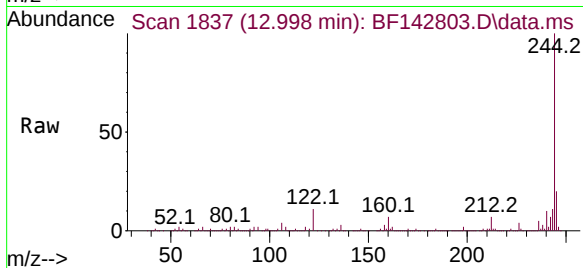
Tgt Ion:202 Resp: 4474

Ion Ratio Lower Upper

202 100

200 45.4 15.7 23.5#

203 17.2 13.8 20.6



#79

Terphenyl-d14

Concen: 88.336 ng

RT: 12.998 min Scan# 1837

Delta R.T. 0.000 min

Lab File: BF142803.D

Acq: 23 Jun 2025 13:12

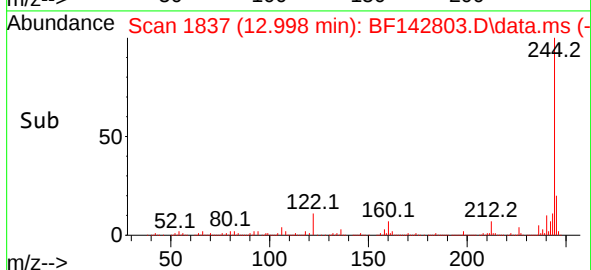
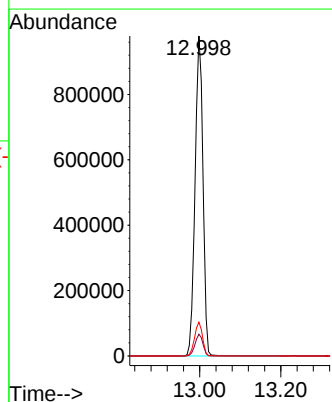
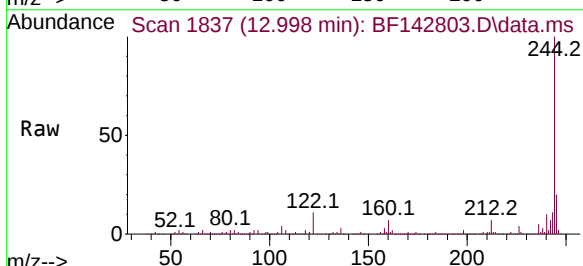
Tgt Ion:244 Resp: 1312638

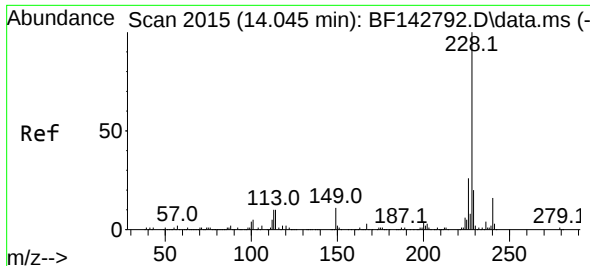
Ion Ratio Lower Upper

244 100

212 6.8 5.4 8.0

122 10.5 8.2 12.2

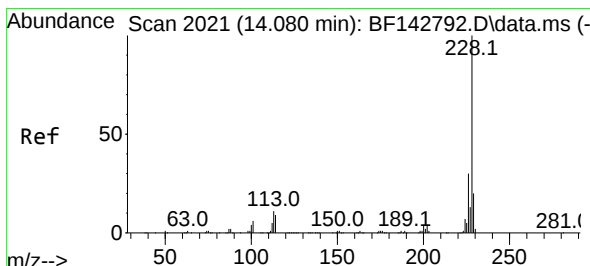
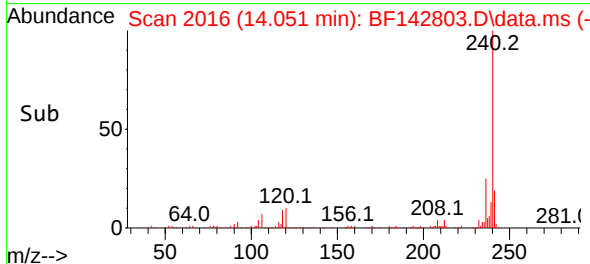
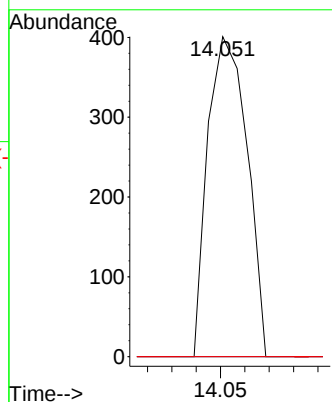
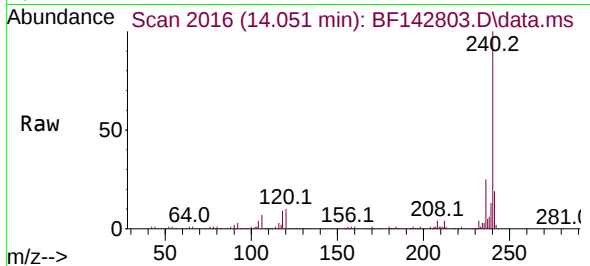




#81
Benzo(a)anthracene
Concen: 0.033 ng
RT: 14.051 min Scan# 2016
Delta R.T. 0.006 min
Lab File: BF142803.D
Acq: 23 Jun 2025 13:12

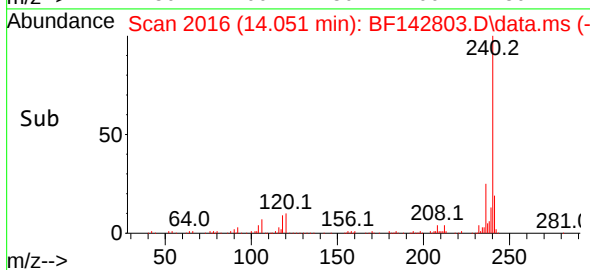
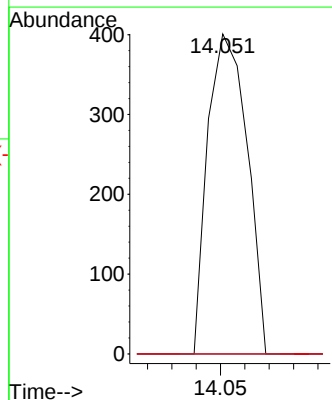
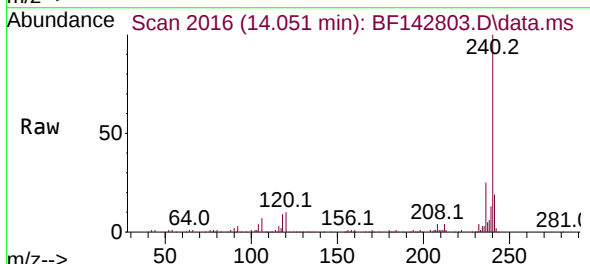
Instrument :
BNA_F
ClientSampleId :
PB168544TB

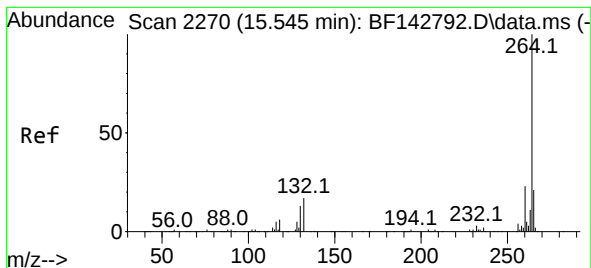
Tgt Ion:228 Resp: 451
Ion Ratio Lower Upper
228 100
226 0.0 21.2 31.8#
229 0.0 15.6 23.4#



#83
Chrysene
Concen: 0.036 ng
RT: 14.051 min Scan# 2016
Delta R.T. -0.029 min
Lab File: BF142803.D
Acq: 23 Jun 2025 13:12

Tgt Ion:228 Resp: 451
Ion Ratio Lower Upper
228 100
226 0.0 23.7 35.5#
229 0.0 15.7 23.5#





#86

Perylene-d12

Concen: 20.000 ng

RT: 15.545 min Scan# 2270

Delta R.T. 0.000 min

Lab File: BF142803.D

Acq: 23 Jun 2025 13:12

Instrument :

BNA_F

ClientSampleId :

PB168544TB

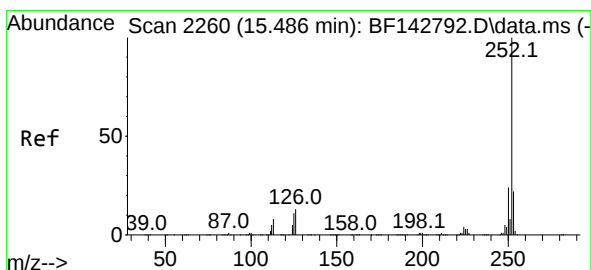
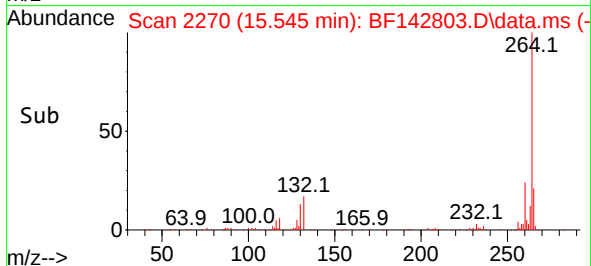
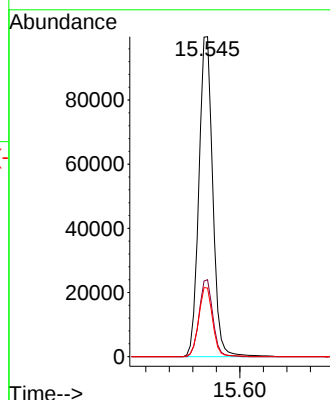
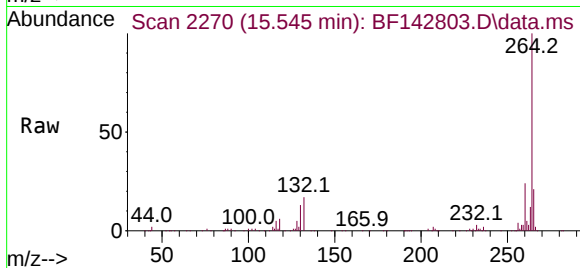
Tgt Ion:264 Resp: 163065

Ion Ratio Lower Upper

264 100

260 24.0 18.1 27.1

265 21.4 16.6 25.0



#90

Benzo(a)pyrene

Concen: 0.050 ng

RT: 15.545 min Scan# 2270

Delta R.T. 0.059 min

Lab File: BF142803.D

Acq: 23 Jun 2025 13:12

Tgt Ion:252 Resp: 455

Ion Ratio Lower Upper

252 100

253 0.0 17.5 26.3#

125 0.0 8.6 12.8#

