

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF062625\
 Data File : BF142879.D
 Acq On : 26 Jun 2025 20:32
 Operator : RC/JU
 Sample : Q2423-01 2X
 Misc :
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 RT915

Quant Time: Jun 27 01:22:07 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)

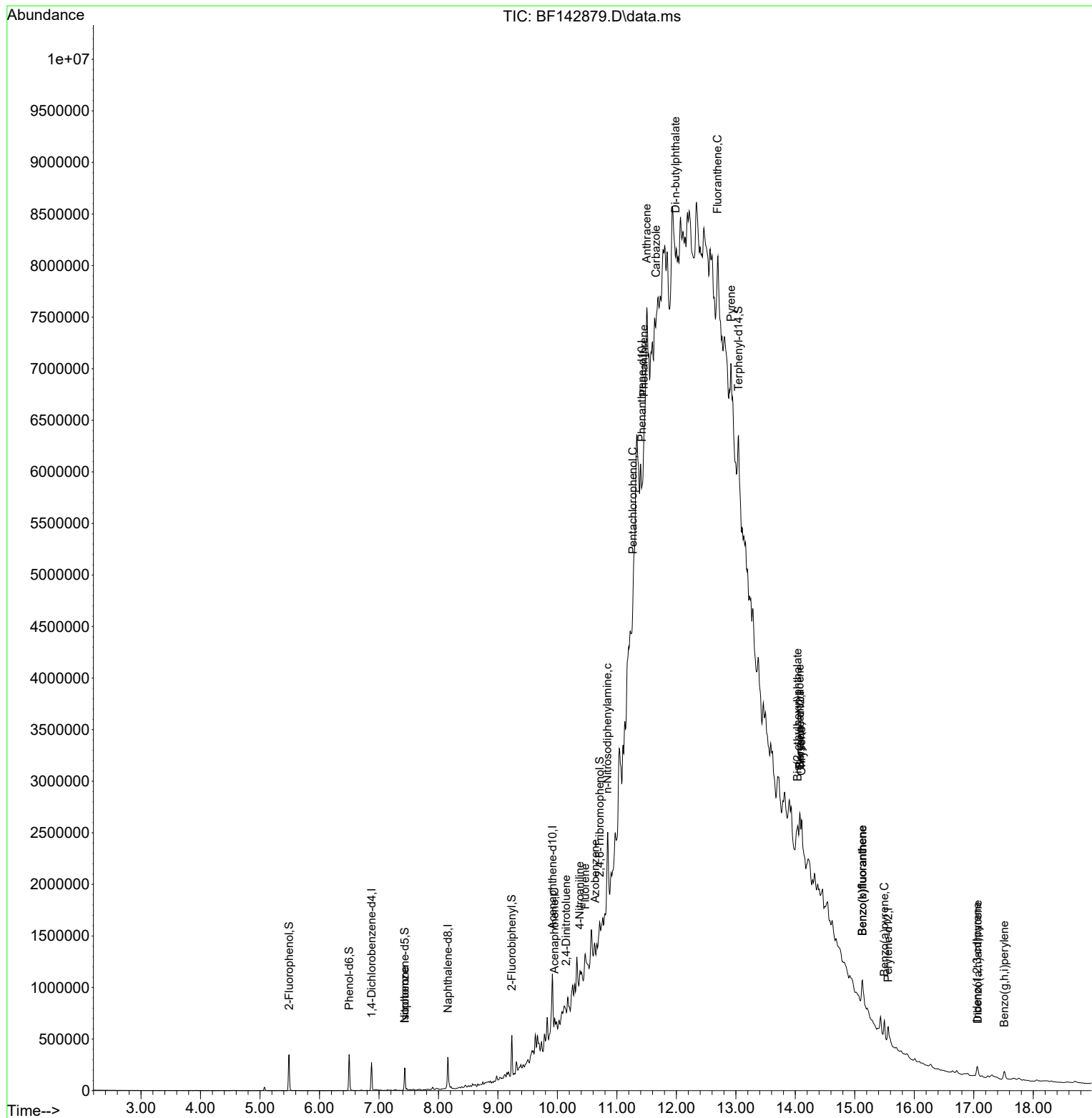
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.875	152	57092	20.000	ng	0.00
21) Naphthalene-d8	8.157	136	193730	20.000	ng	-0.01
39) Acenaphthene-d10	9.916	164	80522	20.000	ng	0.00
64) Phenanthrene-d10	11.422	188	101030	20.000	ng	# 0.01
76) Chrysene-d12	14.080	240	107641	20.000	ng	# 0.02
86) Perylene-d12	15.562	264	85556	20.000	ng	0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.487	112	136352	39.763	ng	0.00
7) Phenol-d6	6.498	99	155866	38.527	ng	-0.01
23) Nitrobenzene-d5	7.434	82	89402	25.312	ng	-0.01
42) 2,4,6-Tribromophenol	10.710	330	30492	36.798	ng	0.00
45) 2-Fluorobiphenyl	9.233	172	166789	27.211	ng	-0.01
79) Terphenyl-d14	13.045	244	141058	18.106	ng	0.05
Target Compounds						Qvalue
25) Isophorone	7.434	82	89401	15.779	ng	# 62
52) Acenaphthene	9.951	154	16341	3.408	ng	# 89
57) 2,4-Dinitrotoluene	10.145	165	3224	2.120	ng	# 48
58) Fluorene	10.469	166	20057	3.736	ng	# 70
62) 4-Nitroaniline	10.375	138	6494	5.634	ng	# 89
63) Azobenzene	10.633	77	14859	3.253	ng	# 6
66) n-Nitrosodiphenylamine	10.839	169	13514	3.860	ng	# 90
70) Pentachlorophenol	11.269	266	2094	3.289	ng	# 1
71) Phenanthrene	11.451	178	242345	44.282	ng	# 85
72) Anthracene	11.504	178	25092	4.470	ng	# 21
73) Carbazole	11.657	167	17089	3.528	ng	# 1
74) Di-n-butylphthalate	11.986	149	24946	4.944	ng	# 42
75) Fluoranthene	12.692	202	369851	71.208	ng	# 85
78) Pyrene	12.921	202	333137	33.018	ng	# 88
81) Benzo(a)anthracene	14.074	228	151187	20.820	ng	# 94
83) Chrysene	14.104	228	165189	25.494	ng	# 95
84) Bis(2-ethylhexyl)phtha...	14.039	149	70192	16.669	ng	# 88
87) Indeno(1,2,3-cd)pyrene	17.056	276	65672	10.077	ng	# 97
88) Benzo(b)fluoranthene	15.127	252	237202	47.913	ng	# 91
89) Benzo(k)fluoranthene	15.127	252	237202	51.213	ng	# 90
90) Benzo(a)pyrene	15.498	252	104772	21.907	ng	# 92
91) Dibenzo(a,h)anthracene	17.068	278	15103	2.852	ng	# 84
92) Benzo(g,h,i)perylene	17.515	276	69549	13.172	ng	# 99

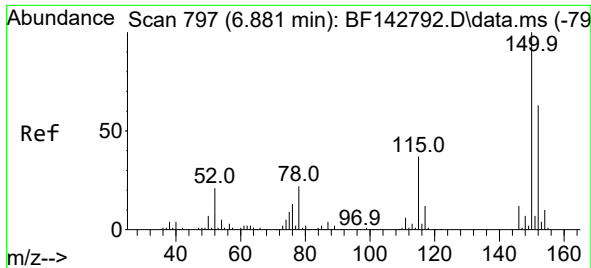
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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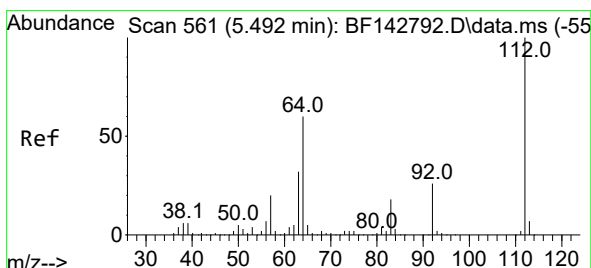
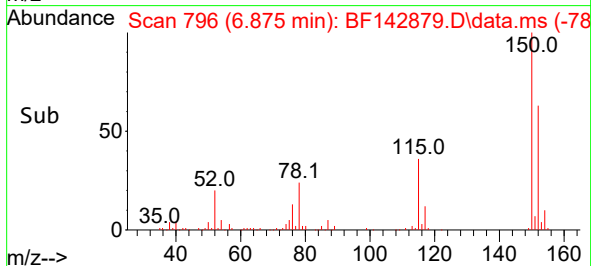
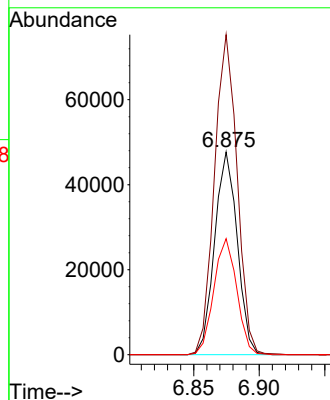
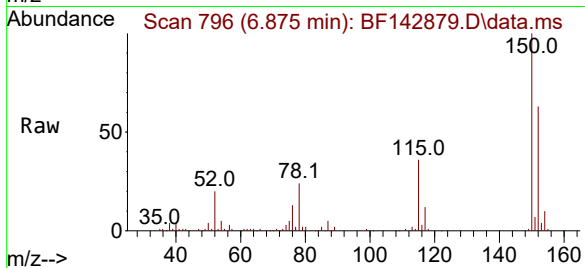




#1
 1,4-Dichlorobenzene-d4
 Concen: 20.000 ng
 RT: 6.875 min Scan# 79
 Delta R.T. -0.006 min
 Lab File: BF142879.D
 Acq: 26 Jun 2025 20:32

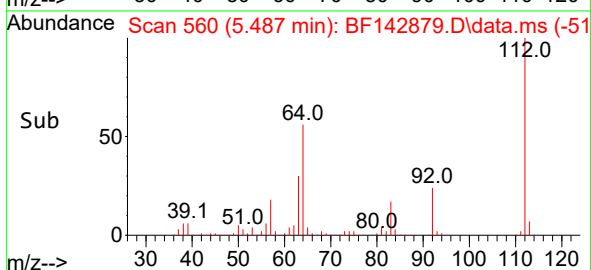
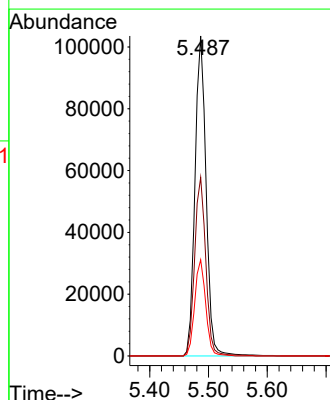
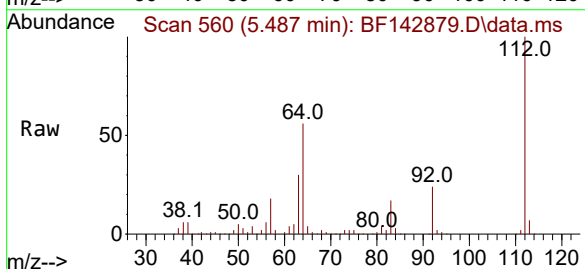
Instrument :
 BNA_F
 ClientSampleId :
 RT915

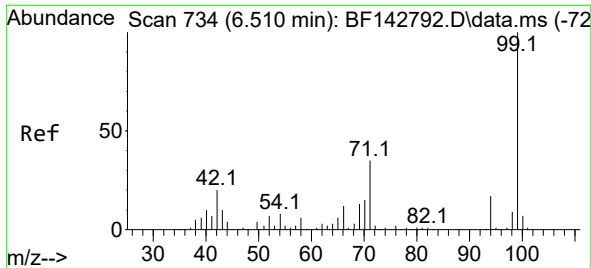
Tgt Ion:152 Resp: 57092
 Ion Ratio Lower Upper
 152 100
 150 157.9 127.2 190.8
 115 57.2 46.6 69.8



#5
 2-Fluorophenol
 Concen: 39.763 ng
 RT: 5.487 min Scan# 560
 Delta R.T. -0.005 min
 Lab File: BF142879.D
 Acq: 26 Jun 2025 20:32

Tgt Ion:112 Resp: 136352
 Ion Ratio Lower Upper
 112 100
 64 55.8 48.2 72.2
 63 30.1 25.7 38.5

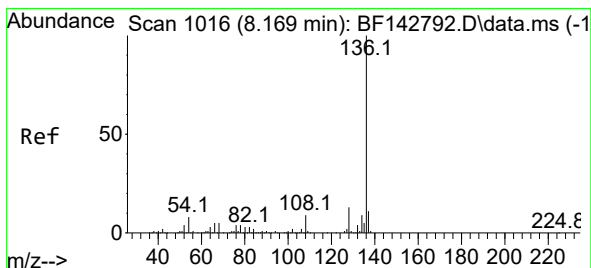
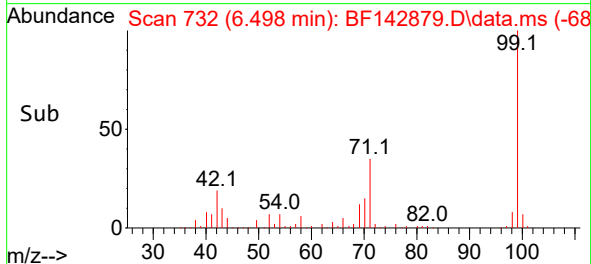
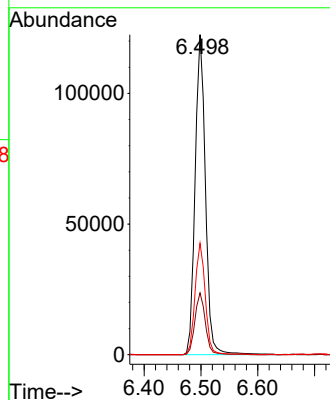
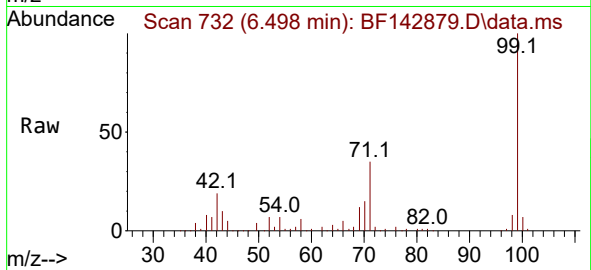




#7
Phenol-d6
Concen: 38.527 ng
RT: 6.498 min Scan# 71
Delta R.T. -0.012 min
Lab File: BF142879.D
Acq: 26 Jun 2025 20:32

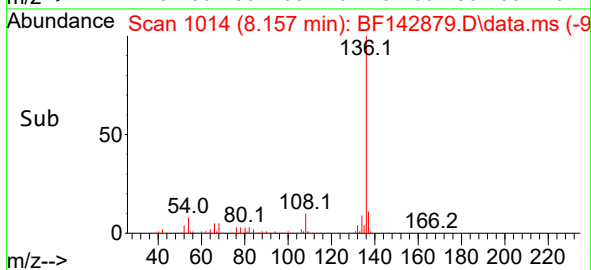
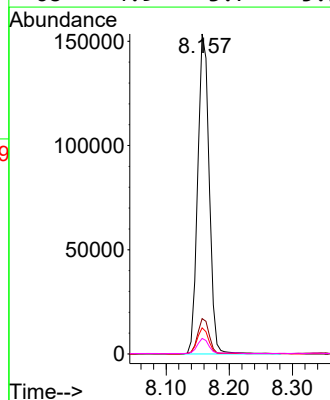
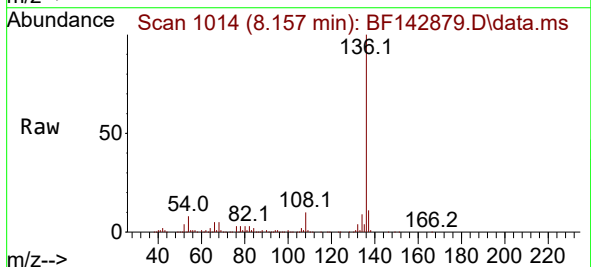
Instrument :
BNA_F
ClientSampleId :
RT915

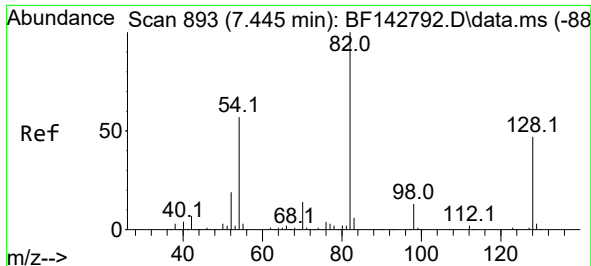
Tgt Ion: 99 Resp: 155866
Ion Ratio Lower Upper
99 100
42 19.3 15.9 23.9
71 34.8 27.8 41.8



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.157 min Scan# 1014
Delta R.T. -0.012 min
Lab File: BF142879.D
Acq: 26 Jun 2025 20:32

Tgt Ion: 136 Resp: 193730
Ion Ratio Lower Upper
136 100
137 11.1 8.4 12.6
54 8.2 6.3 9.5
68 4.9 3.7 5.5





#23

Nitrobenzene-d5

Concen: 25.312 ng

RT: 7.434 min Scan# 891

Delta R.T. -0.011 min

Lab File: BF142879.D

Acq: 26 Jun 2025 20:32

Instrument :

BNA_F

ClientSampleId :

RT915

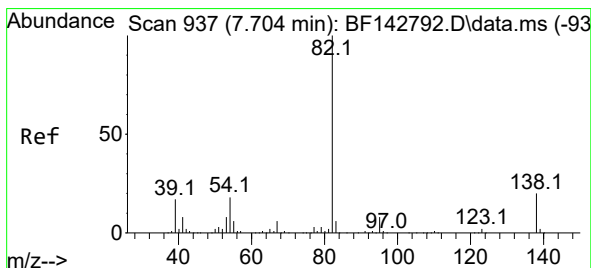
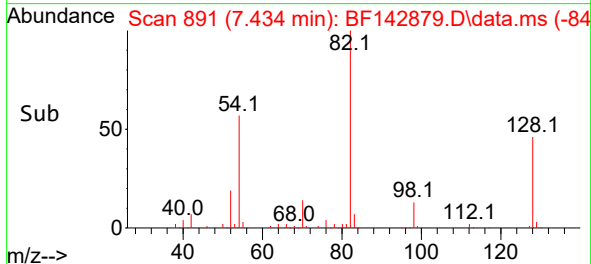
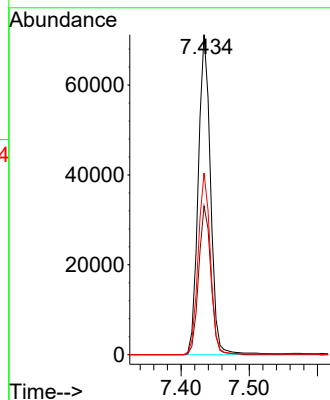
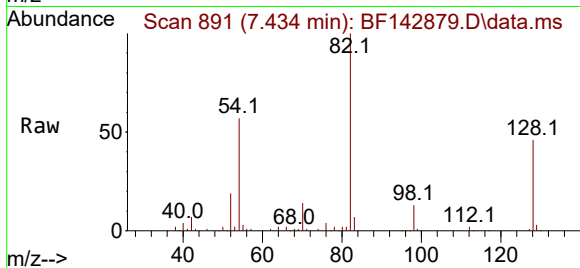
Tgt Ion: 82 Resp: 89402

Ion Ratio Lower Upper

82 100

128 46.4 37.7 56.5

54 56.8 45.7 68.5



#25

Isophorone

Concen: 15.779 ng

RT: 7.434 min Scan# 891

Delta R.T. -0.271 min

Lab File: BF142879.D

Acq: 26 Jun 2025 20:32

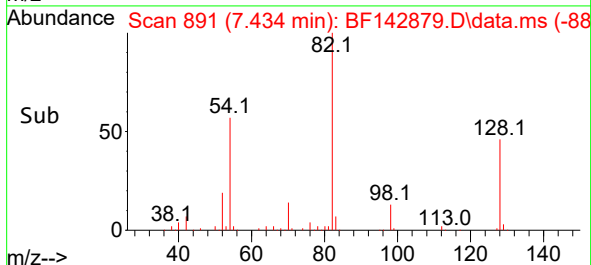
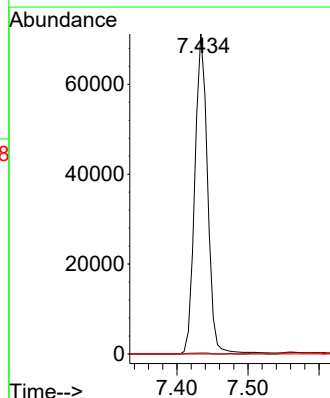
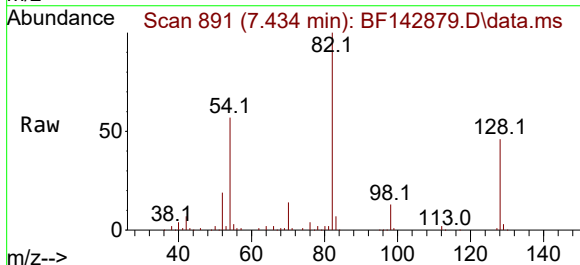
Tgt Ion: 82 Resp: 89401

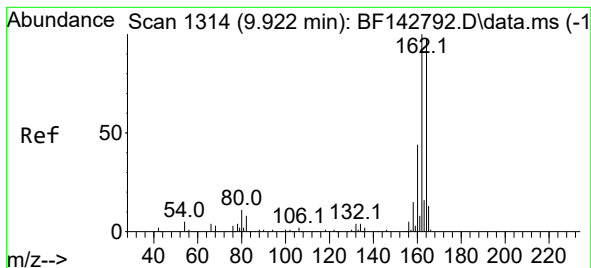
Ion Ratio Lower Upper

82 100

95 0.3 6.2 9.2#

138 0.0 16.2 24.4#





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.916 min Scan# 1

Delta R.T. -0.006 min

Lab File: BF142879.D

Acq: 26 Jun 2025 20:32

Instrument :

BNA_F

ClientSampleId :

RT915

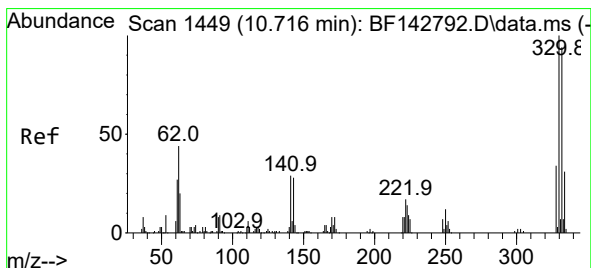
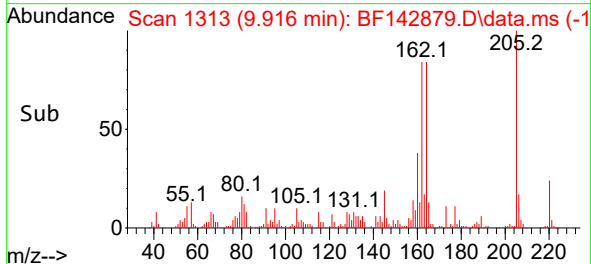
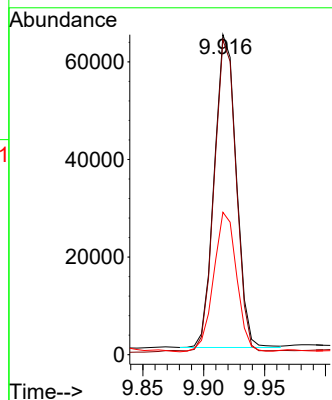
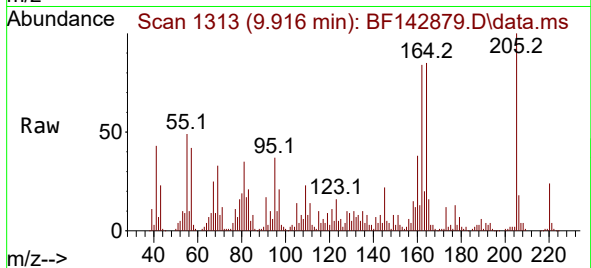
Tgt Ion:164 Resp: 80522

Ion Ratio Lower Upper

164 100

162 98.4 81.8 122.8

160 44.5 36.0 54.0



#42

2,4,6-Tribromophenol

Concen: 36.798 ng

RT: 10.710 min Scan# 1448

Delta R.T. -0.006 min

Lab File: BF142879.D

Acq: 26 Jun 2025 20:32

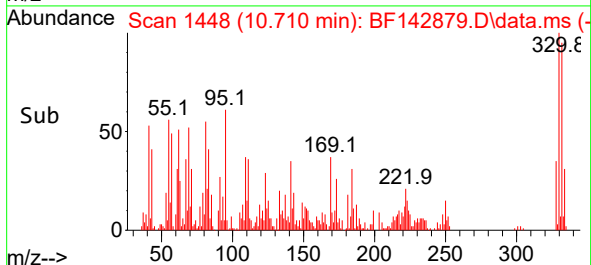
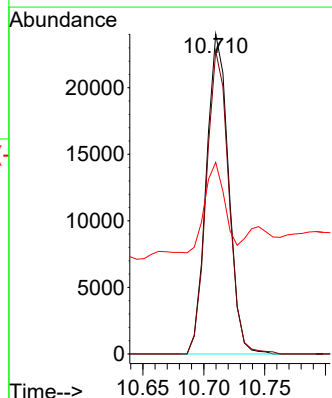
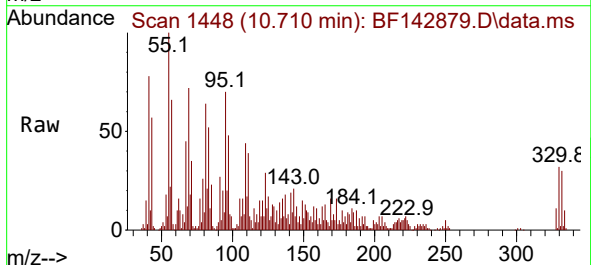
Tgt Ion:330 Resp: 30492

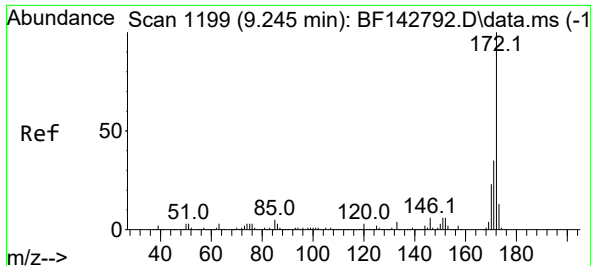
Ion Ratio Lower Upper

330 100

332 95.4 75.0 112.6

141 25.3 25.3 37.9

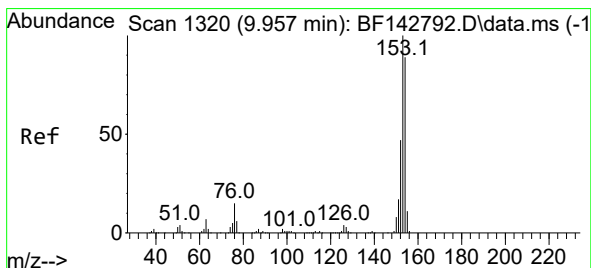
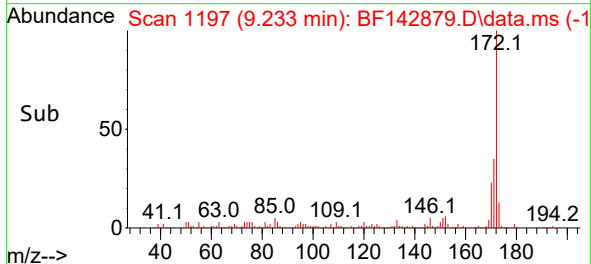
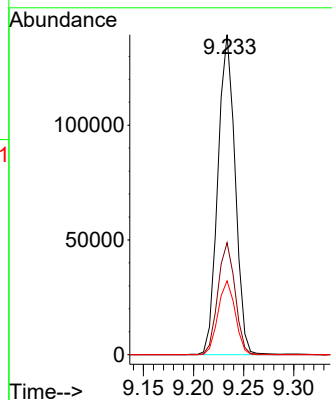
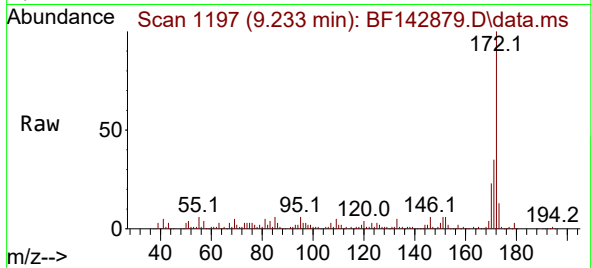




#45
2-Fluorobiphenyl
Concen: 27.211 ng
RT: 9.233 min Scan# 1197
Delta R.T. -0.012 min
Lab File: BF142879.D
Acq: 26 Jun 2025 20:32

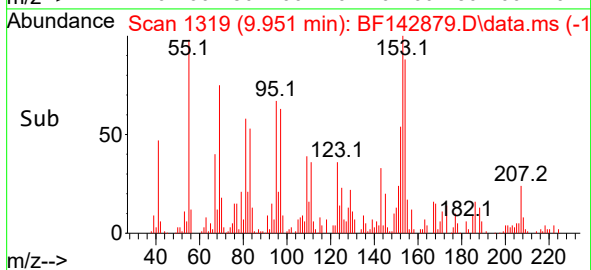
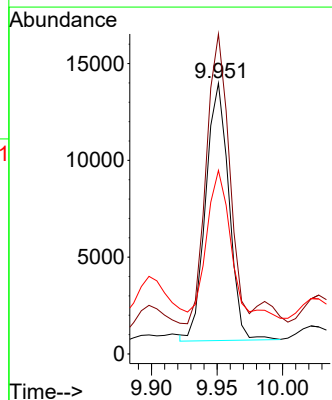
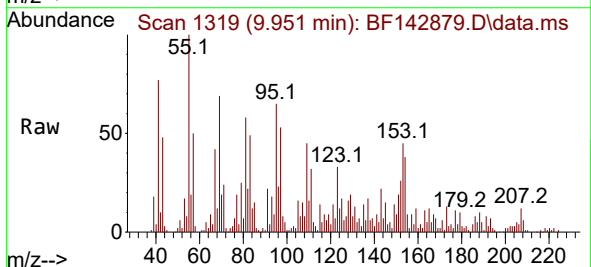
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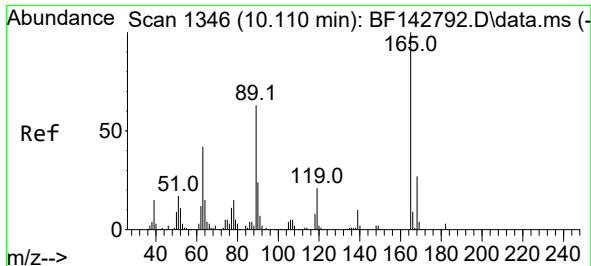
Tgt Ion:172 Resp: 166789
Ion Ratio Lower Upper
172 100
171 35.0 28.2 42.4
170 23.0 18.5 27.7



#52
Acenaphthene
Concen: 3.408 ng
RT: 9.951 min Scan# 1319
Delta R.T. -0.006 min
Lab File: BF142879.D
Acq: 26 Jun 2025 20:32

Tgt Ion:154 Resp: 16341
Ion Ratio Lower Upper
154 100
153 118.2 90.0 135.0
152 67.8 41.9 62.9

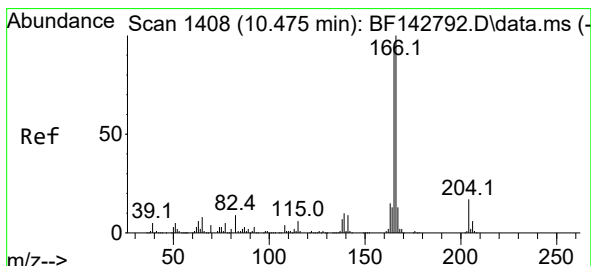
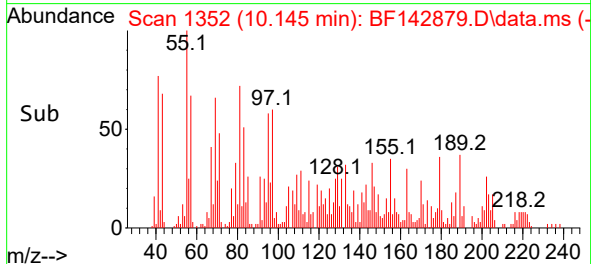
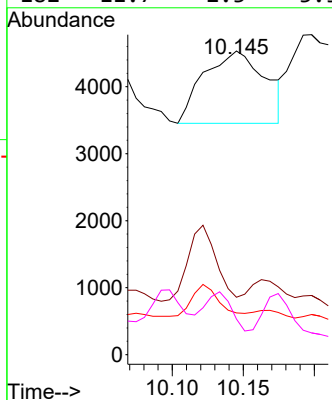
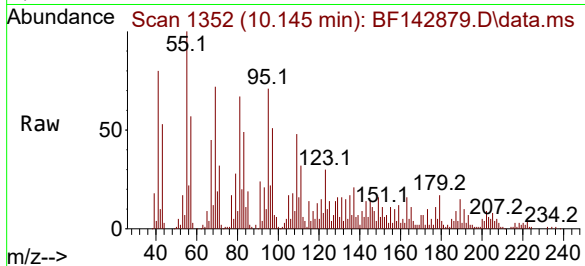




#57
2,4-Dinitrotoluene
Concen: 2.120 ng
RT: 10.145 min Scan# 11
Delta R.T. 0.035 min
Lab File: BF142879.D
Acq: 26 Jun 2025 20:32

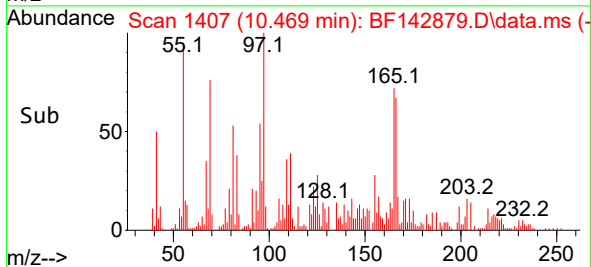
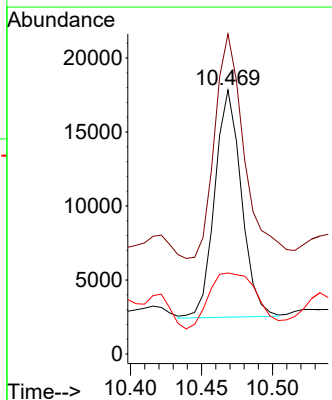
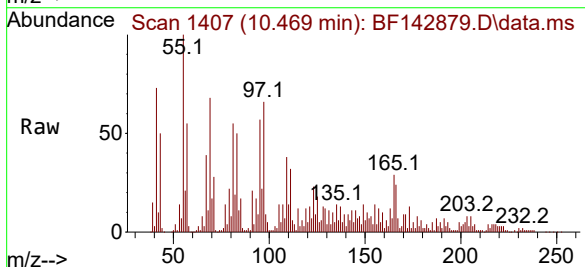
Instrument :
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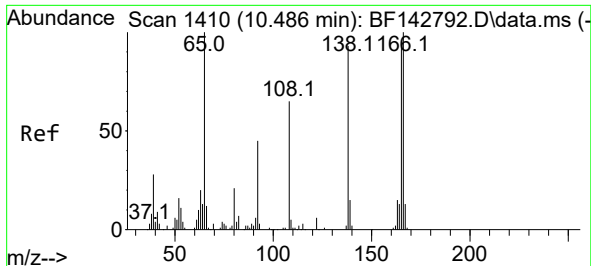
Tgt Ion:165 Resp: 3224
Ion Ratio Lower Upper
165 100
63 18.9 33.9 50.9#
89 13.8 50.6 75.8#
182 11.7 2.3 3.5#



#58
Fluorene
Concen: 3.736 ng
RT: 10.469 min Scan# 1407
Delta R.T. -0.006 min
Lab File: BF142879.D
Acq: 26 Jun 2025 20:32

Tgt Ion:166 Resp: 20057
Ion Ratio Lower Upper
166 100
165 121.3 75.2 112.8#
167 30.7 10.6 15.8#

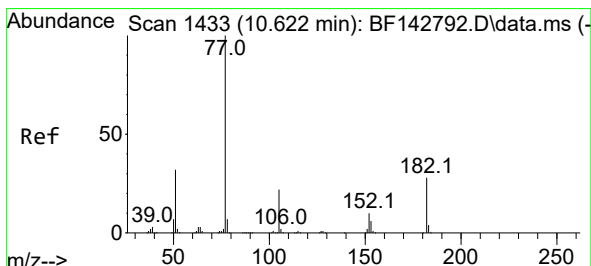
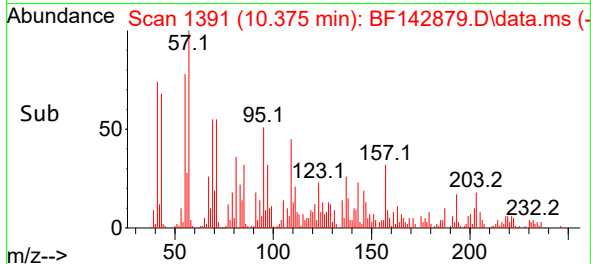
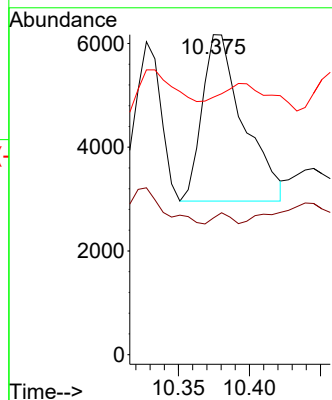
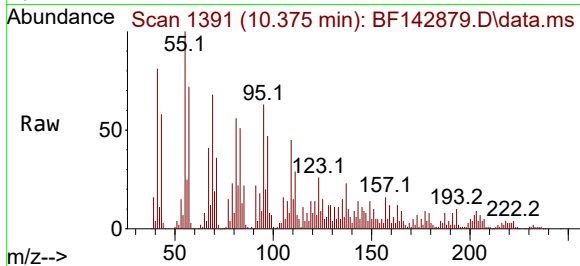




#62
4-Nitroaniline
Concen: 5.634 ng
RT: 10.375 min Scan# 1
Delta R.T. -0.112 min
Lab File: BF142879.D
Acq: 26 Jun 2025 20:32

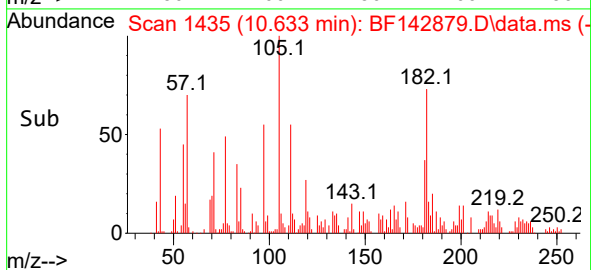
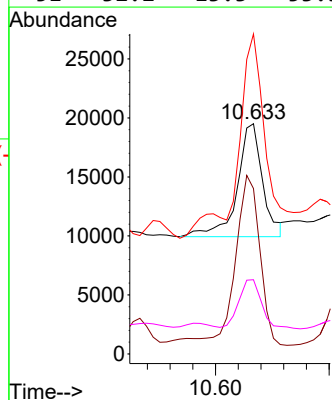
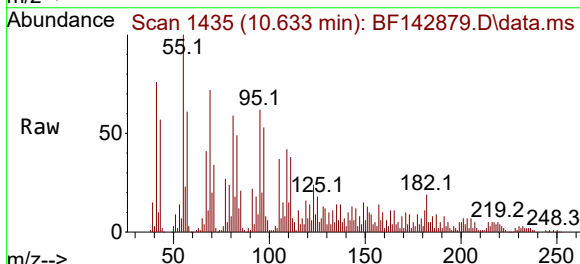
Instrument :
BNA_F
ClientSampleId :
RT915

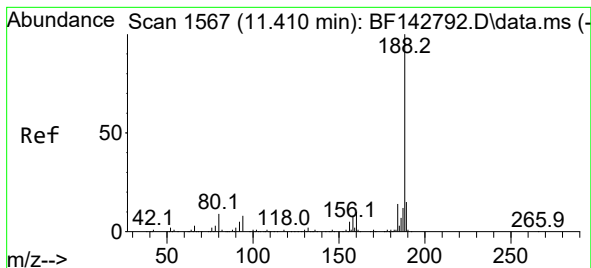
Tgt Ion:138 Resp: 6494
Ion Ratio Lower Upper
138 100
92 42.7 28.4 68.4
108 80.4 50.2 90.2



#63
Azobenzene
Concen: 3.253 ng
RT: 10.633 min Scan# 1435
Delta R.T. 0.012 min
Lab File: BF142879.D
Acq: 26 Jun 2025 20:32

Tgt Ion: 77 Resp: 14859
Ion Ratio Lower Upper
77 100
182 71.9 7.7 47.7#
105 139.0 1.9 41.9#
51 32.2 13.3 53.3





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.422 min Scan# 1

Delta R.T. 0.012 min

Lab File: BF142879.D

Acq: 26 Jun 2025 20:32

Instrument :

BNA_F

ClientSampleId :

RT915

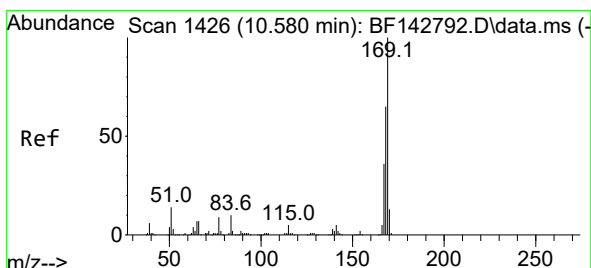
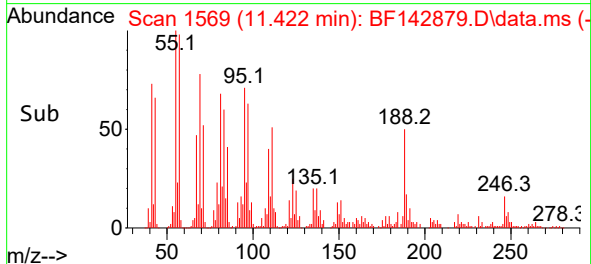
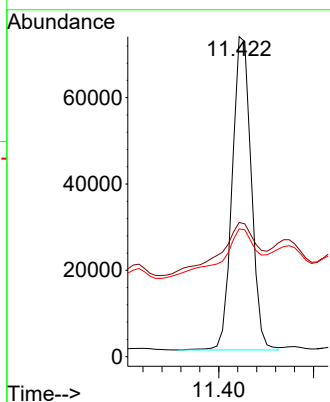
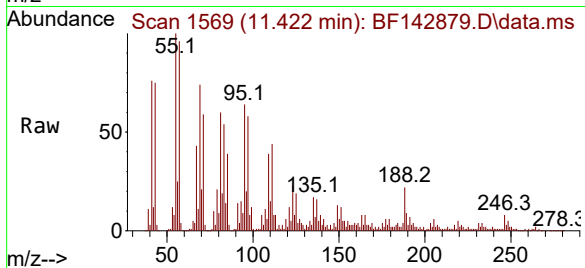
Tgt Ion:188 Resp: 101030

Ion Ratio Lower Upper

188 100

94 41.9 6.7 10.1#

80 40.0 6.9 10.3#



#66

n-Nitrosodiphenylamine

Concen: 3.860 ng

RT: 10.839 min Scan# 1470

Delta R.T. 0.259 min

Lab File: BF142879.D

Acq: 26 Jun 2025 20:32

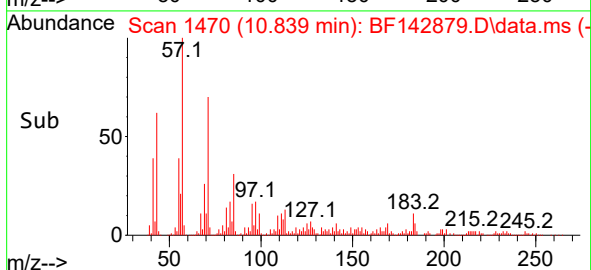
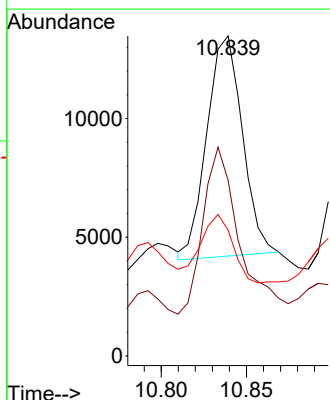
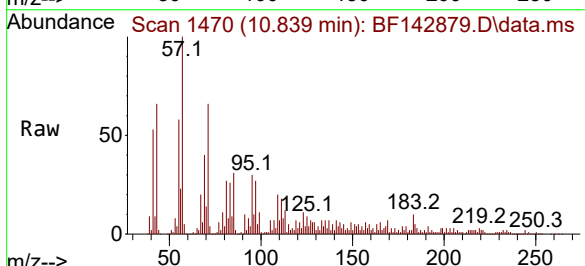
Tgt Ion:169 Resp: 13514

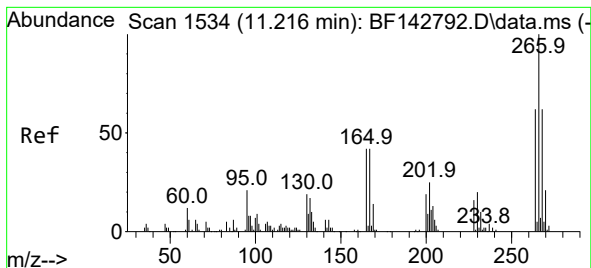
Ion Ratio Lower Upper

169 100

168 54.9 51.9 77.9

167 39.3 28.5 42.7





#70

Pentachlorophenol

Concen: 3.289 ng

RT: 11.269 min Scan# 1543

Delta R.T. 0.053 min

Lab File: BF142879.D

Acq: 26 Jun 2025 20:32

Instrument :

BNA_F

ClientSampleId :

RT915

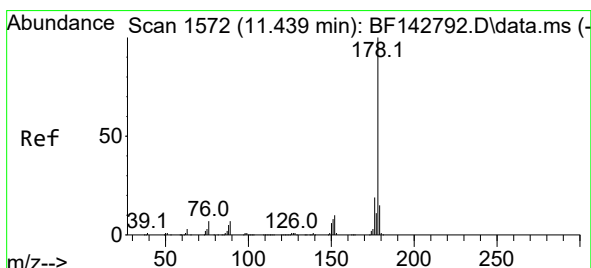
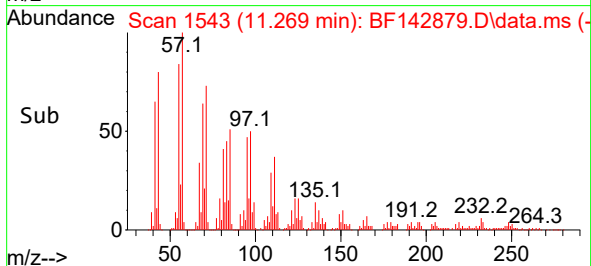
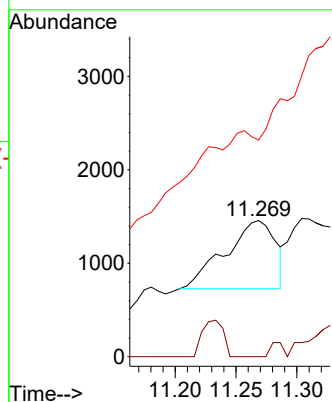
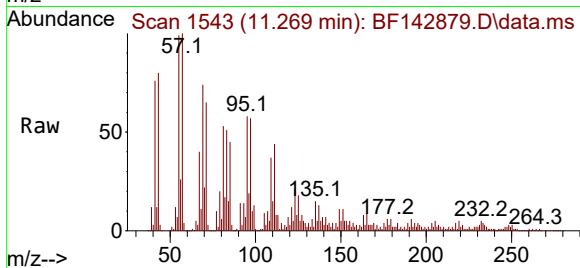
Tgt Ion:266 Resp: 2094

Ion Ratio Lower Upper

266 100

268 0.0 49.8 74.8#

264 159.2 49.9 74.9#



#71

Phenanthrene

Concen: 44.282 ng

RT: 11.451 min Scan# 1574

Delta R.T. 0.012 min

Lab File: BF142879.D

Acq: 26 Jun 2025 20:32

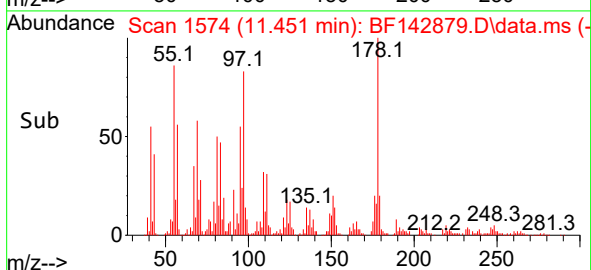
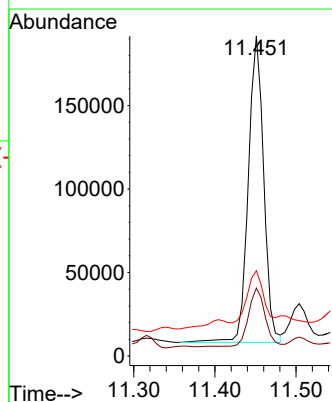
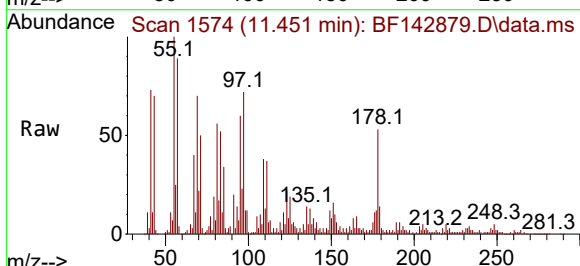
Tgt Ion:178 Resp: 242345

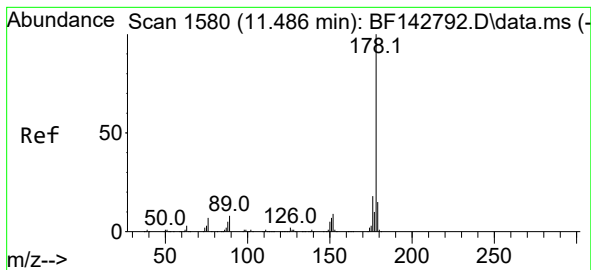
Ion Ratio Lower Upper

178 100

176 21.2 15.1 22.7

179 26.6 12.0 18.0#





#72

Anthracene

Concen: 4.470 ng

RT: 11.504 min Scan# 1

Delta R.T. 0.018 min

Lab File: BF142879.D

Acq: 26 Jun 2025 20:32

Instrument :

BNA_F

ClientSampleId :

RT915

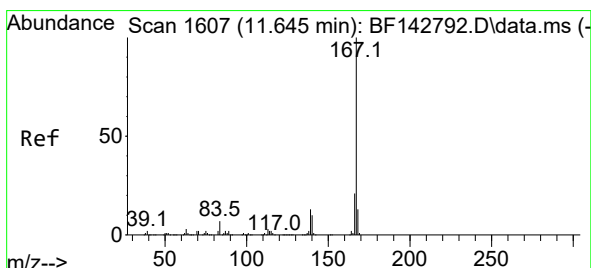
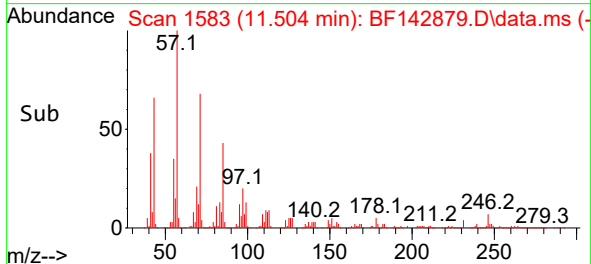
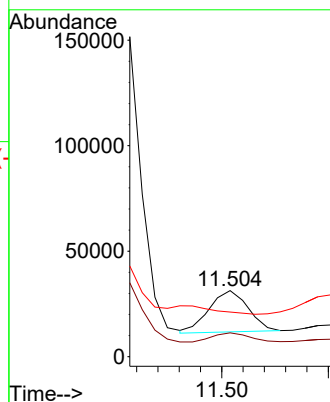
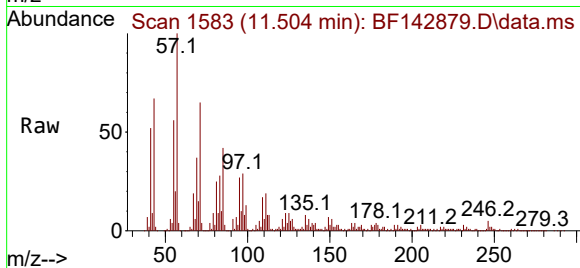
Tgt Ion:178 Resp: 25092

Ion Ratio Lower Upper

178 100

176 36.0 14.6 21.8#

179 67.5 12.4 18.6#



#73

Carbazole

Concen: 3.528 ng

RT: 11.657 min Scan# 1609

Delta R.T. 0.012 min

Lab File: BF142879.D

Acq: 26 Jun 2025 20:32

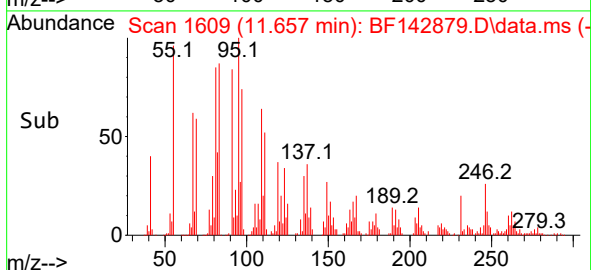
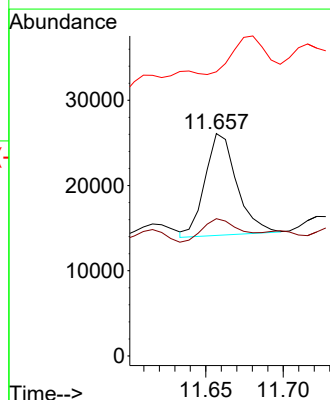
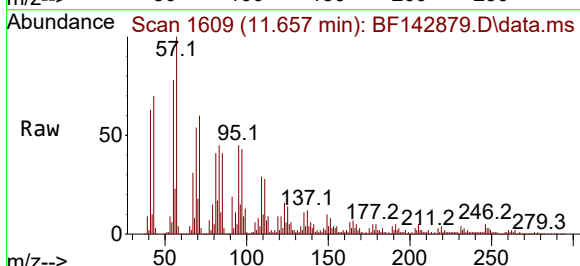
Tgt Ion:167 Resp: 17089

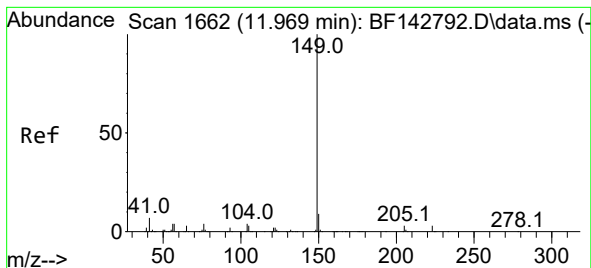
Ion Ratio Lower Upper

167 100

166 61.7 17.0 25.4#

139 127.8 10.2 15.2#





#74

Di-n-butylphthalate

Concen: 4.944 ng

RT: 11.986 min Scan# 1

Delta R.T. 0.018 min

Lab File: BF142879.D

Acq: 26 Jun 2025 20:32

Instrument :

BNA_F

ClientSampleId :

RT915

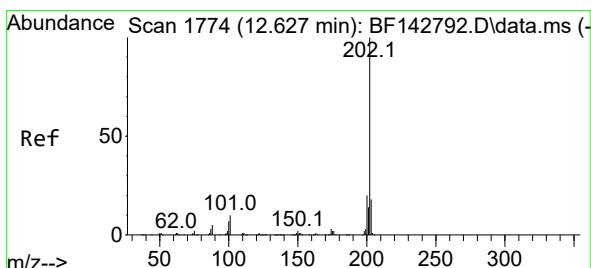
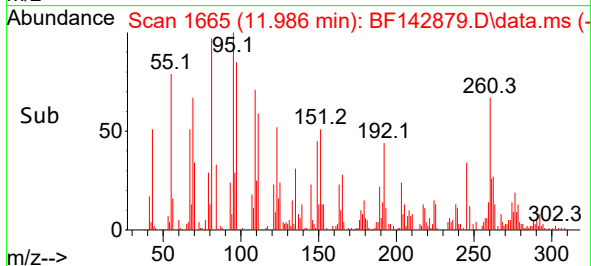
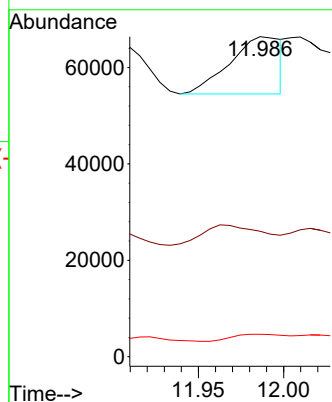
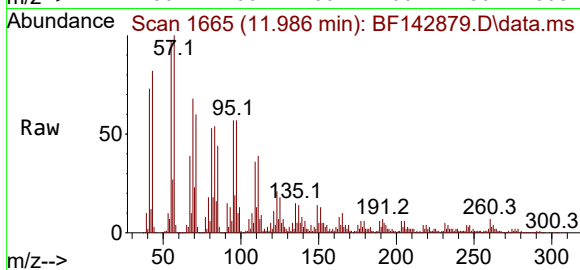
Tgt Ion:149 Resp: 24946

Ion Ratio Lower Upper

149 100

150 39.2 7.4 11.0#

104 7.0 3.5 5.3#



#75

Fluoranthene

Concen: 71.208 ng

RT: 12.692 min Scan# 1785

Delta R.T. 0.065 min

Lab File: BF142879.D

Acq: 26 Jun 2025 20:32

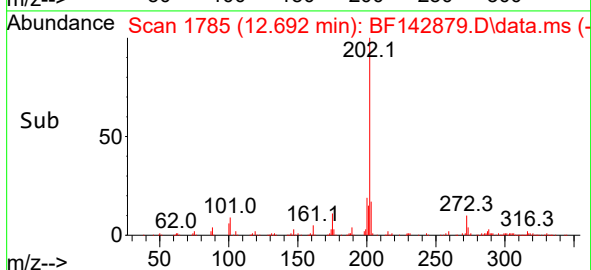
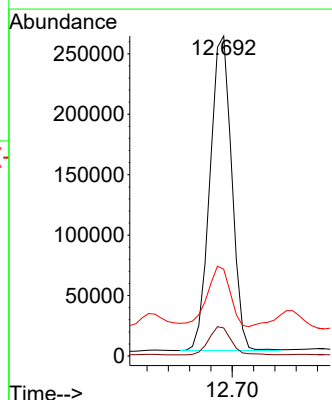
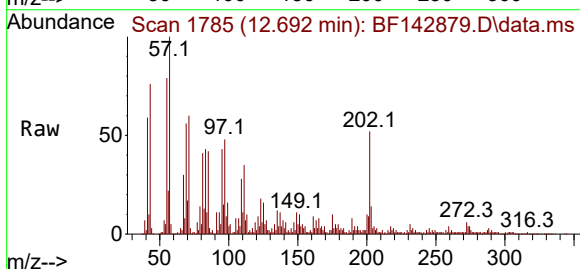
Tgt Ion:202 Resp: 369851

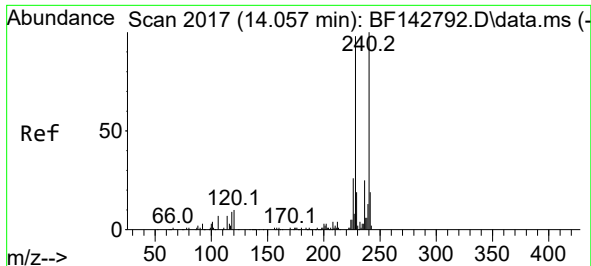
Ion Ratio Lower Upper

202 100

101 8.8 0.0 29.7

203 27.1 0.0 37.5

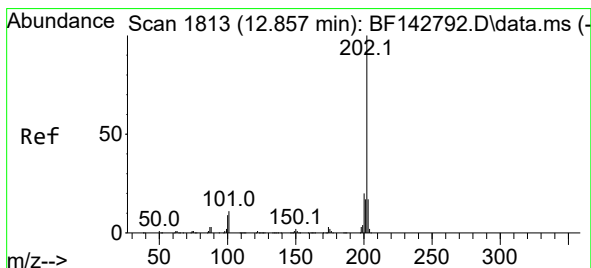
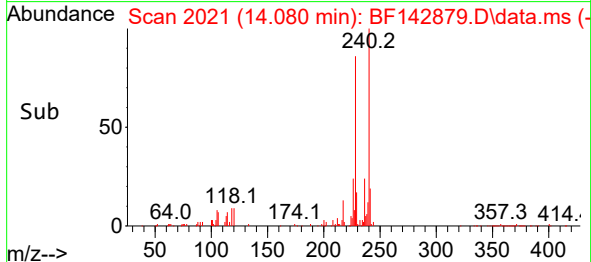
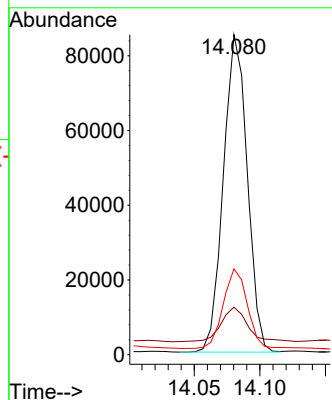
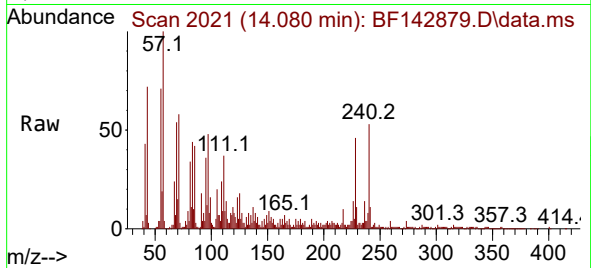




#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.080 min Scan# 20
Delta R.T. 0.024 min
Lab File: BF142879.D
Acq: 26 Jun 2025 20:32

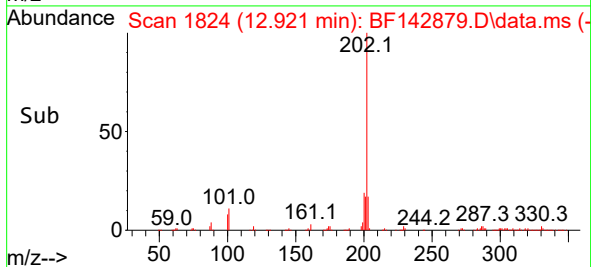
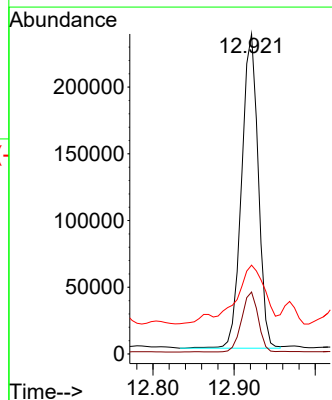
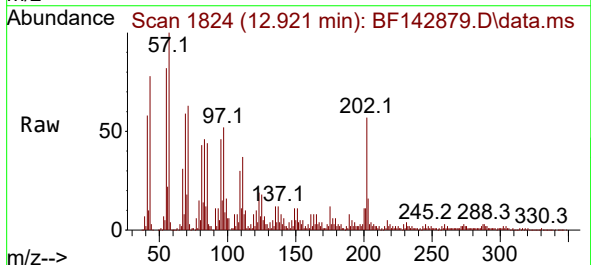
Instrument :
BNA_F
ClientSampleId :
RT915

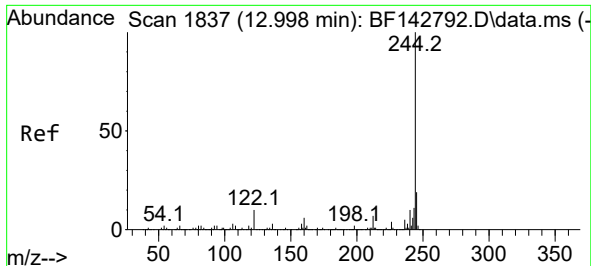
Tgt Ion:240 Resp: 107641
Ion Ratio Lower Upper
240 100
120 14.8 8.2 12.2#
236 26.8 19.8 29.8



#78
Pyrene
Concen: 33.018 ng
RT: 12.921 min Scan# 1824
Delta R.T. 0.065 min
Lab File: BF142879.D
Acq: 26 Jun 2025 20:32

Tgt Ion:202 Resp: 333137
Ion Ratio Lower Upper
202 100
200 19.4 15.7 23.5
203 27.8 13.8 20.6#

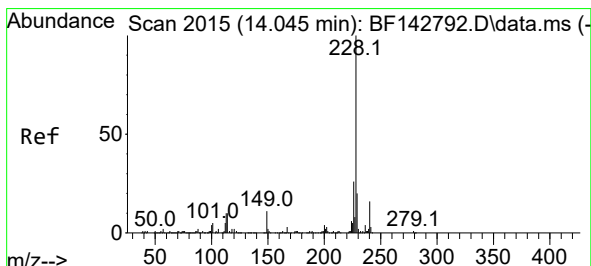
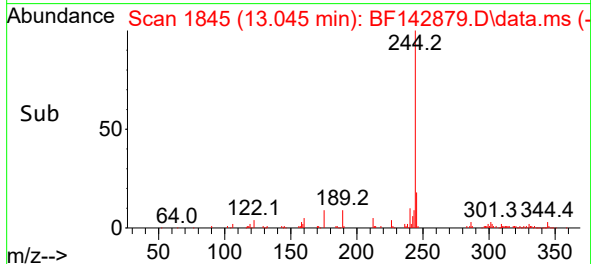
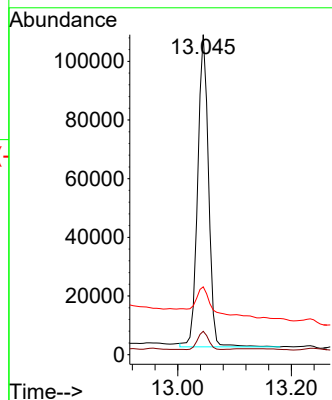
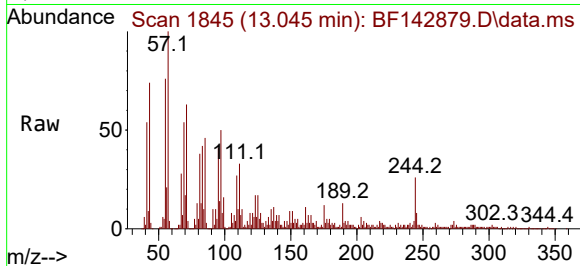




#79
 Terphenyl-d14
 Concen: 18.106 ng
 RT: 13.045 min Scan# 11
 Delta R.T. 0.047 min
 Lab File: BF142879.D
 Acq: 26 Jun 2025 20:32

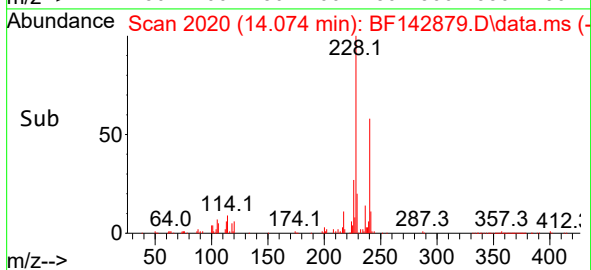
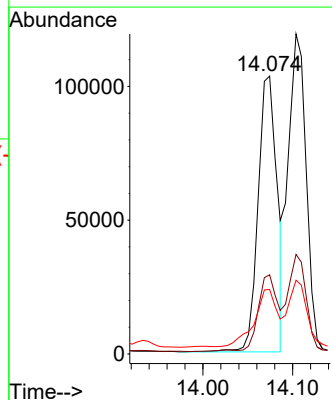
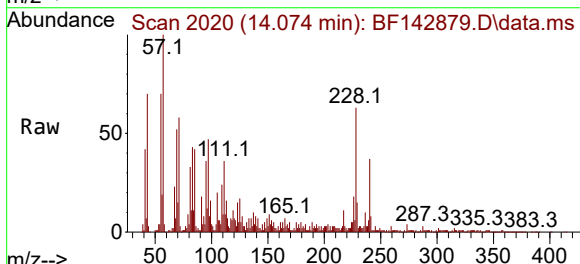
Instrument :
 BNA_F
 ClientSampleId :
 RT915

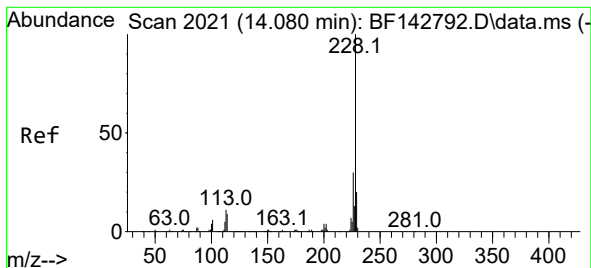
Tgt Ion:244 Resp: 141058
 Ion Ratio Lower Upper
 244 100
 212 7.3 5.4 8.0
 122 21.2 8.2 12.2#



#81
 Benzo(a)anthracene
 Concen: 20.820 ng
 RT: 14.074 min Scan# 2020
 Delta R.T. 0.029 min
 Lab File: BF142879.D
 Acq: 26 Jun 2025 20:32

Tgt Ion:228 Resp: 151187
 Ion Ratio Lower Upper
 228 100
 226 28.5 21.2 31.8
 229 23.2 15.6 23.4





#83

Chrysene

Concen: 25.494 ng

RT: 14.104 min Scan# 20

Delta R.T. 0.024 min

Lab File: BF142879.D

Acq: 26 Jun 2025 20:32

Instrument :

BNA_F

ClientSampleId :

RT915

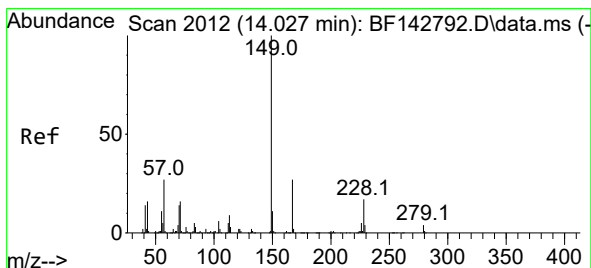
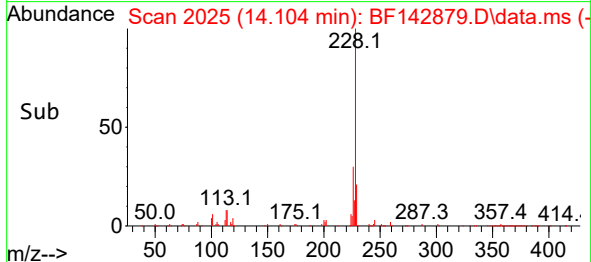
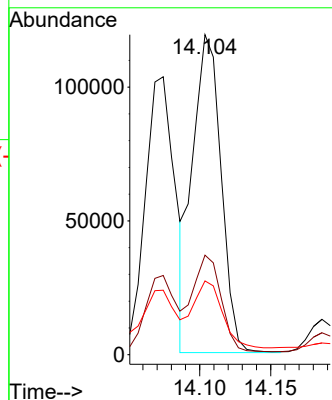
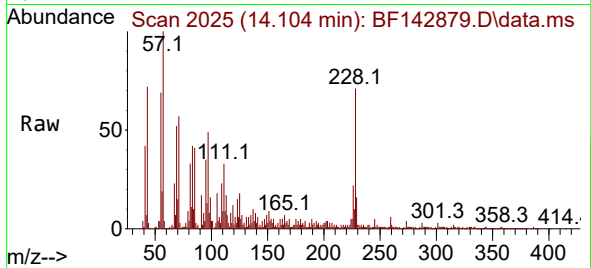
Tgt Ion:228 Resp: 165189

Ion Ratio Lower Upper

228 100

226 31.1 23.7 35.5

229 23.0 15.7 23.5



#84

Bis(2-ethylhexyl)phthalate

Concen: 16.669 ng

RT: 14.039 min Scan# 2014

Delta R.T. 0.012 min

Lab File: BF142879.D

Acq: 26 Jun 2025 20:32

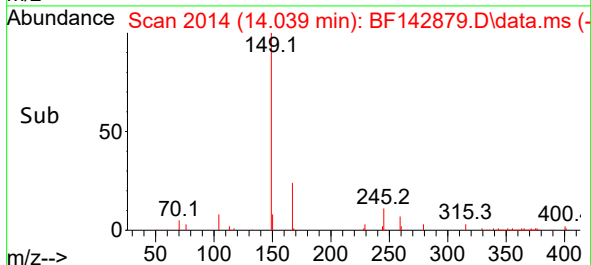
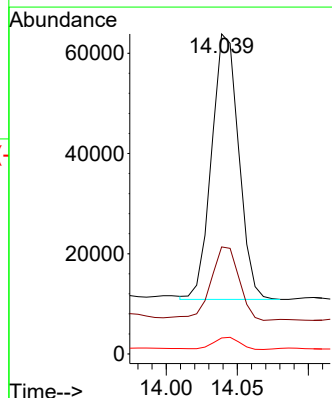
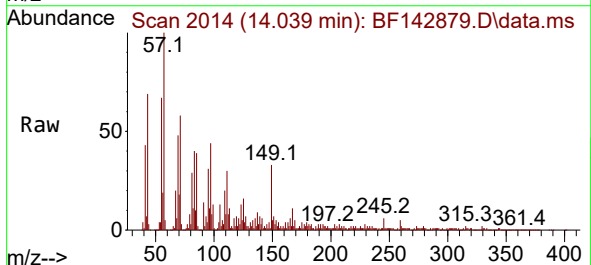
Tgt Ion:149 Resp: 70192

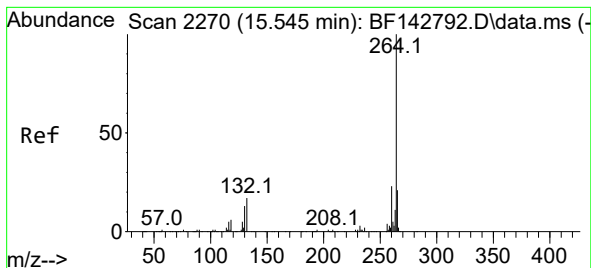
Ion Ratio Lower Upper

149 100

167 33.5 21.4 32.0#

279 5.0 3.0 4.6#





#86

Perylene-d12

Concen: 20.000 ng

RT: 15.562 min Scan# 21

Delta R.T. 0.018 min

Lab File: BF142879.D

Acq: 26 Jun 2025 20:32

Instrument :

BNA_F

ClientSampleId :

RT915

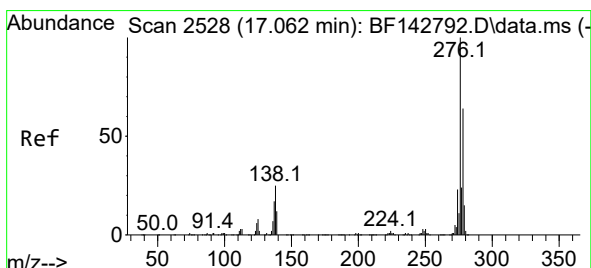
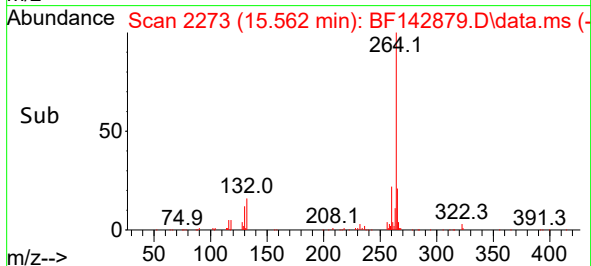
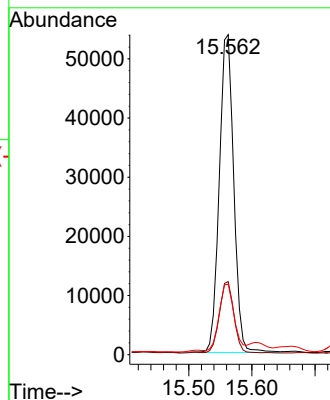
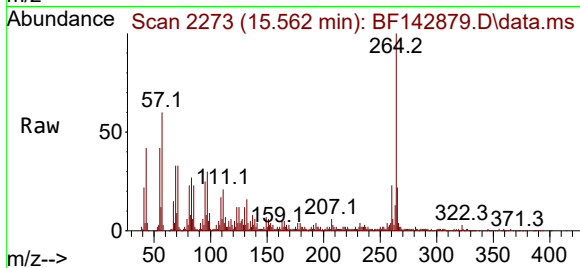
Tgt Ion:264 Resp: 85556

Ion Ratio Lower Upper

264 100

260 22.9 18.1 27.1

265 22.0 16.6 25.0



#87

Indeno(1,2,3-cd)pyrene

Concen: 10.077 ng

RT: 17.056 min Scan# 2527

Delta R.T. -0.006 min

Lab File: BF142879.D

Acq: 26 Jun 2025 20:32

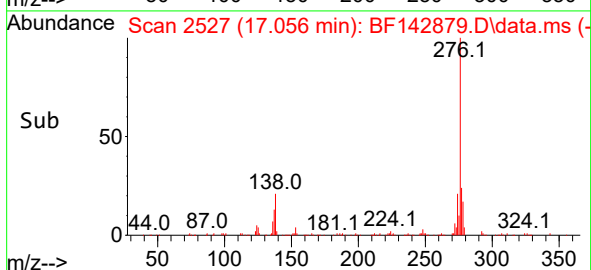
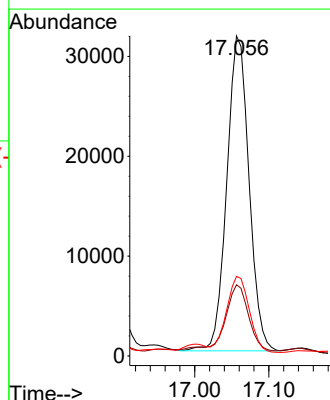
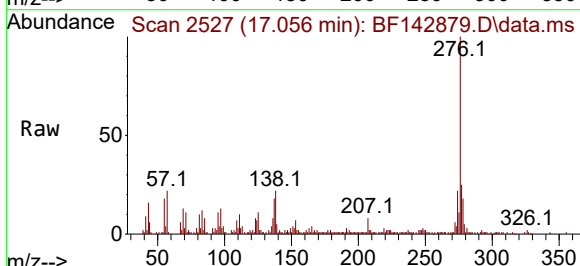
Tgt Ion:276 Resp: 65672

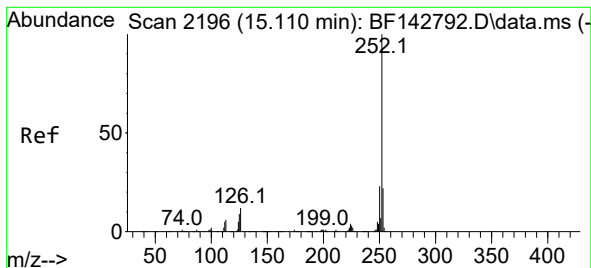
Ion Ratio Lower Upper

276 100

138 22.4 20.2 30.4

277 24.7 19.8 29.6





#88

Benzo(b)fluoranthene

Concen: 47.913 ng

RT: 15.127 min Scan# 2199

Delta R.T. 0.018 min

Lab File: BF142879.D

Acq: 26 Jun 2025 20:32

Instrument :

BNA_F

ClientSampleId :

RT915

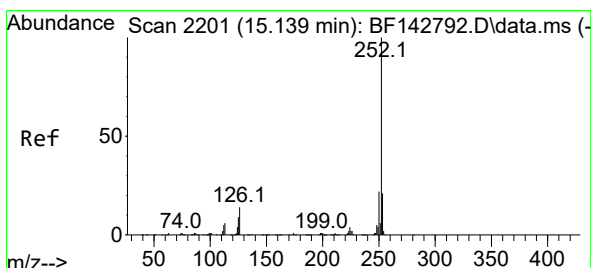
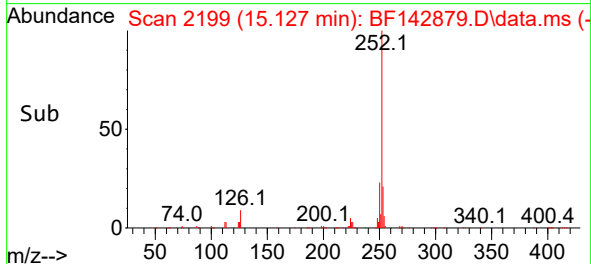
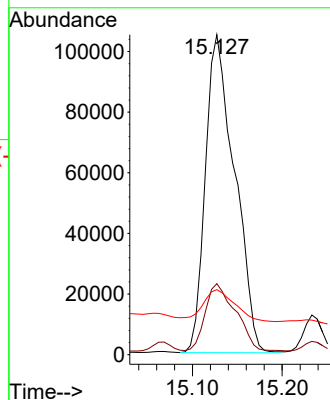
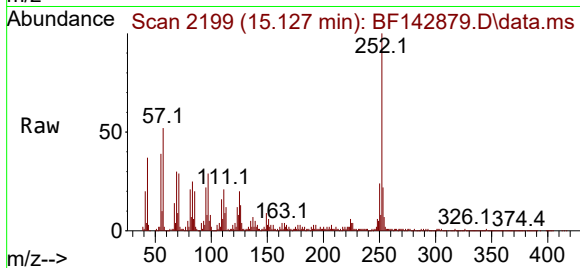
Tgt Ion:252 Resp: 237202

Ion Ratio Lower Upper

252 100

253 22.2 17.5 26.3

125 20.3 7.4 11.0#



#89

Benzo(k)fluoranthene

Concen: 51.213 ng

RT: 15.127 min Scan# 2199

Delta R.T. -0.012 min

Lab File: BF142879.D

Acq: 26 Jun 2025 20:32

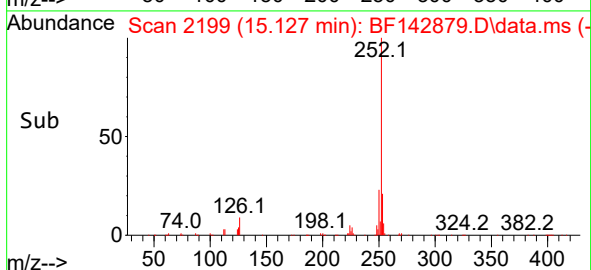
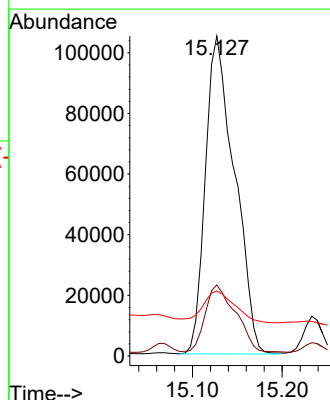
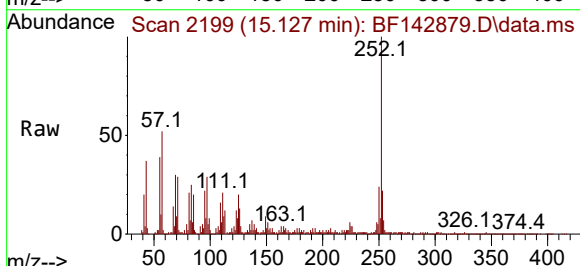
Tgt Ion:252 Resp: 237202

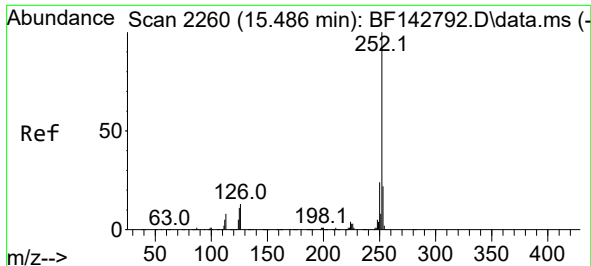
Ion Ratio Lower Upper

252 100

253 22.2 17.2 25.8

125 20.3 7.4 11.2#

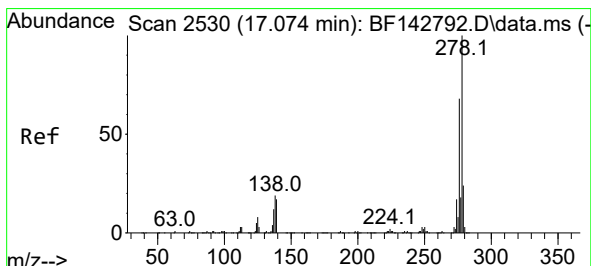
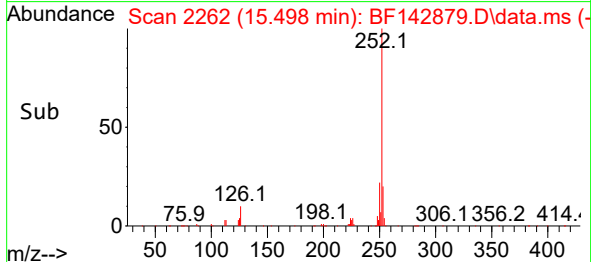
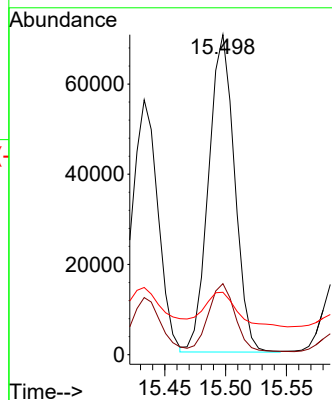
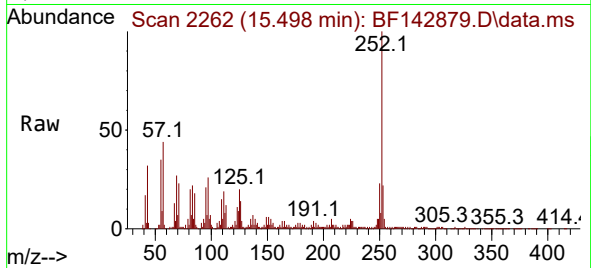




#90
Benzo(a)pyrene
Concen: 21.907 ng
RT: 15.498 min Scan# 21
Delta R.T. 0.012 min
Lab File: BF142879.D
Acq: 26 Jun 2025 20:32

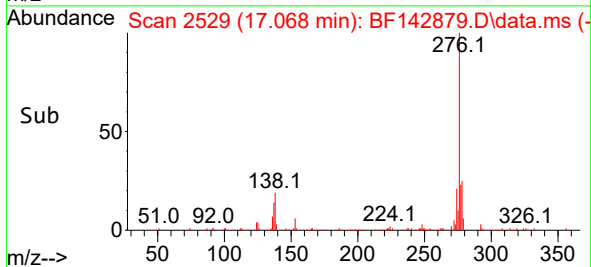
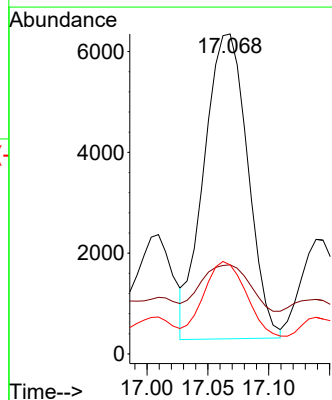
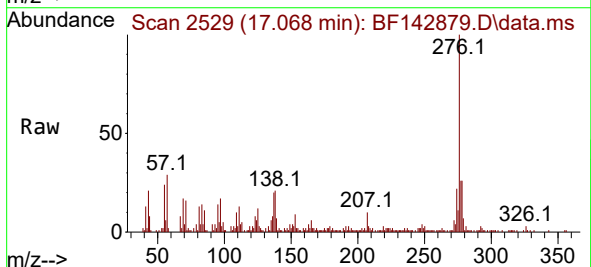
Instrument :
BNA_F
ClientSampleId :
RT915

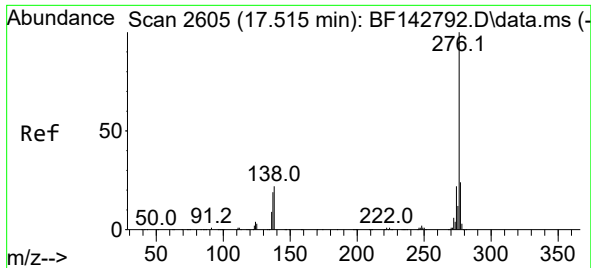
Tgt Ion:252 Resp: 104772
Ion Ratio Lower Upper
252 100
253 22.2 17.5 26.3
125 19.5 8.6 12.8#



#91
Dibenzo(a,h)anthracene
Concen: 2.852 ng
RT: 17.068 min Scan# 2529
Delta R.T. -0.006 min
Lab File: BF142879.D
Acq: 26 Jun 2025 20:32

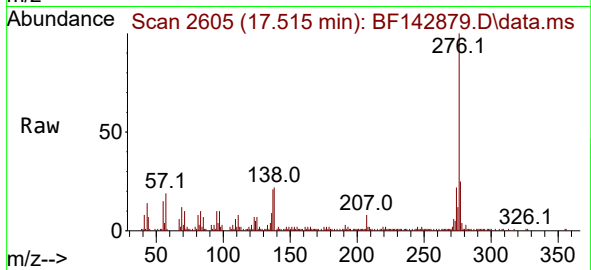
Tgt Ion:278 Resp: 15103
Ion Ratio Lower Upper
278 100
139 27.8 13.5 20.3#
279 27.9 18.8 28.2





#92
 Benzo(g,h,i)perylene
 Concen: 13.172 ng
 RT: 17.515 min Scan# 20
 Delta R.T. 0.000 min
 Lab File: BF142879.D
 Acq: 26 Jun 2025 20:32

Instrument :
 BNA_F
 ClientSampleId :
 RT915



Tgt Ion:	276	Resp:	69549
Ion Ratio	Lower	Upper	
276	100		
277	24.7	18.8	28.2
138	22.1	17.6	26.4

