

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030725\
 Data File : BF141890.D
 Acq On : 07 Mar 2025 12:58
 Operator : RC/JU
 Sample : Q1484-01DL 2X
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 TR-OTR-COMP-01DL

Quant Time: Mar 07 13:15:53 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF022725.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Feb 28 01:48:16 2025
 Response via : Initial Calibration

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

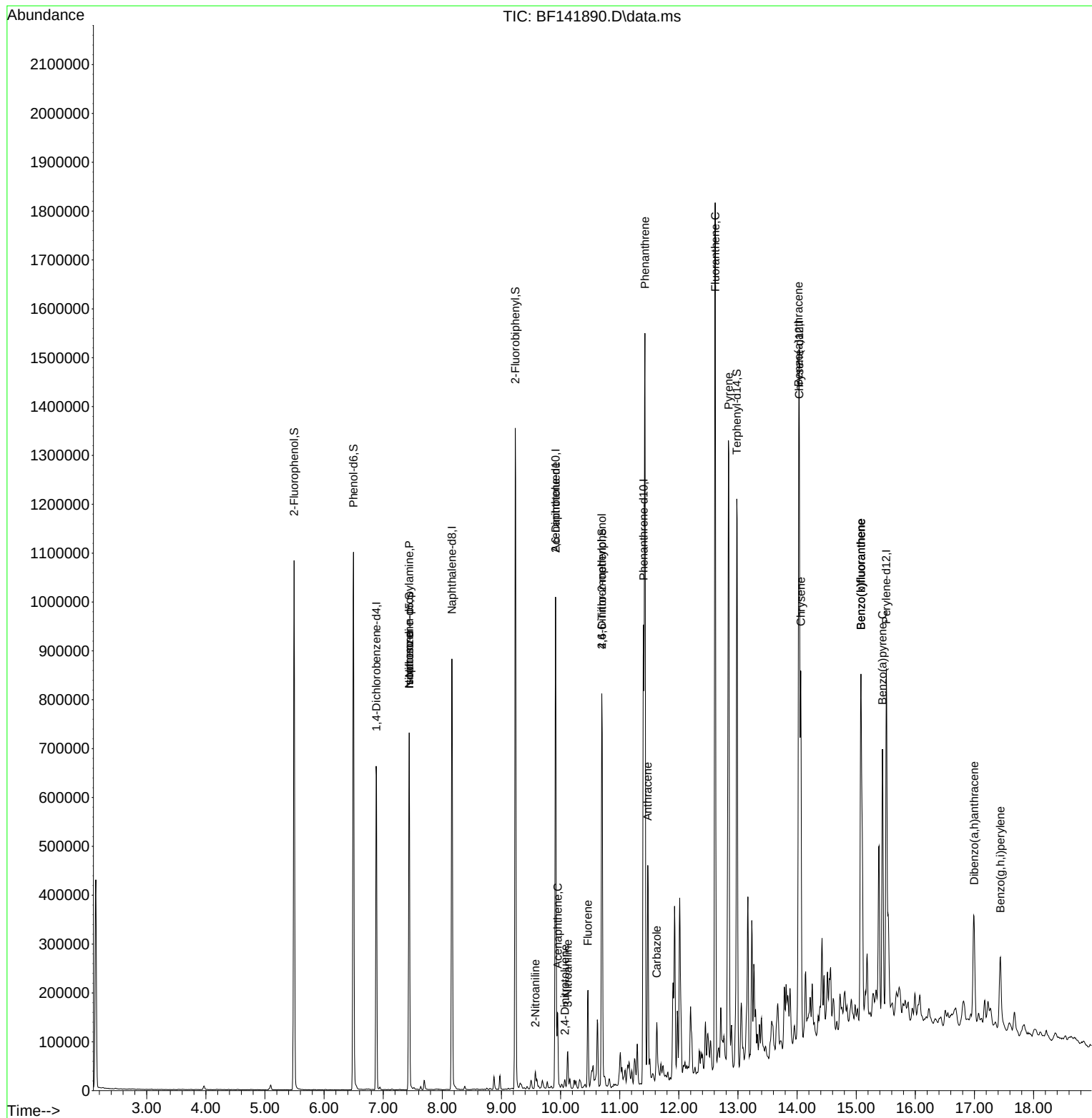
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.886	152	142040	20.000	ng	0.00
21) Naphthalene-d8	8.163	136	543256	20.000	ng	#-0.01
39) Acenaphthene-d10	9.916	164	291670	20.000	ng	-0.01
64) Phenanthrene-d10	11.404	188	472860	20.000	ng	# 0.00
76) Chrysene-d12	14.039	240	360400	20.000	ng	-0.01
86) Perylene-d12	15.509	264	412090	20.000	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.492	112	399553	44.923	ng	0.00
7) Phenol-d6	6.498	99	504063	43.541	ng	-0.01
23) Nitrobenzene-d5	7.439	82	318154	37.434	ng	-0.01
42) 2,4,6-Tribromophenol	10.698	330	125610	45.872	ng	-0.02
45) 2-Fluorobiphenyl	9.233	172	598442	32.899	ng	-0.01
79) Terphenyl-d14	12.980	244	557785	25.040	ng	-0.02
Target Compounds						Qvalue
19) n-Nitroso-di-n-propyla...	7.439	70	44022	5.785	ng	# 77
25) Isophorone	7.439	82	315249	17.266	ng	# 66
48) 2-Nitroaniline	9.575	65	119	4.363	ng	# 6
51) 2,6-Dinitrotoluene	9.916	165	38769	12.593	ng	# 21
52) Acenaphthene	9.951	154	47649	2.874	ng	97
53) 3-Nitroaniline	10.122	138	451	3.073	ng	# 1
57) 2,4-Dinitrotoluene	10.074	165	1475	3.824	ng	# 42
58) Fluorene	10.463	166	72788	4.027	ng	98
65) 4,6-Dinitro-2-methylph...	10.698	198	334	8.251	ng	# 1
71) Phenanthrene	11.427	178	805725	31.855	ng	99
72) Anthracene	11.474	178	250997	9.901	ng	99
73) Carbazole	11.627	167	57237	2.557	ng	99
75) Fluoranthene	12.615	202	988176	38.128	ng	97
78) Pyrene	12.845	202	760963	24.383	ng	99
81) Benzo(a)anthracene	14.027	228	466003	19.576	ng	98
83) Chrysene	14.062	228	378031	17.227	ng	97
88) Benzo(b)fluoranthene	15.080	252	641625	22.858	ng	99
89) Benzo(k)fluoranthene	15.080	252	641625	26.893	ng	99
90) Benzo(a)pyrene	15.445	252	335260	14.892	ng	96
91) Dibenzo(a,h)anthracene	16.998	278	50916	2.377	ng	# 94
92) Benzo(g,h,i)perylene	17.439	276	137440	6.263	ng	97

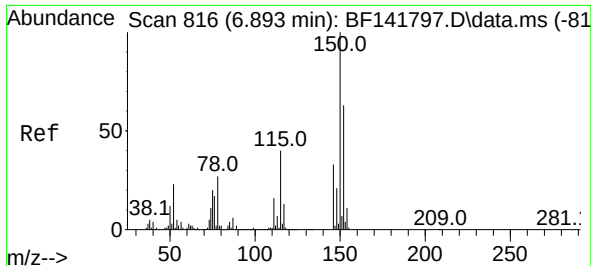
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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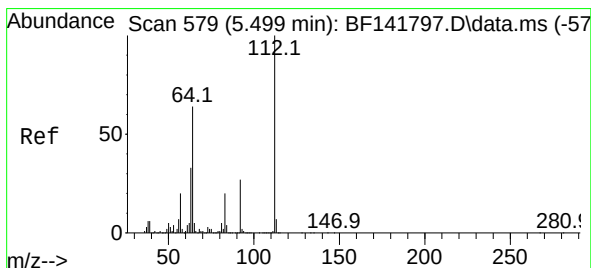
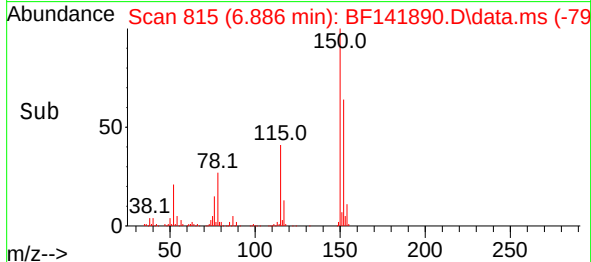
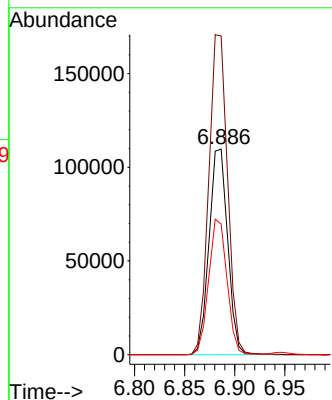
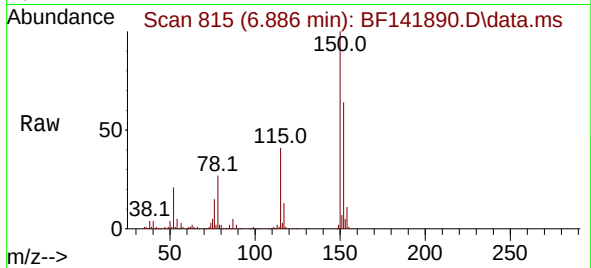




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.886 min Scan# 816
Delta R.T. -0.007 min
Lab File: BF141890.D
Acq: 07 Mar 2025 12:58

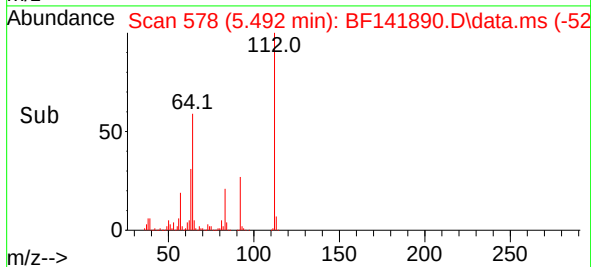
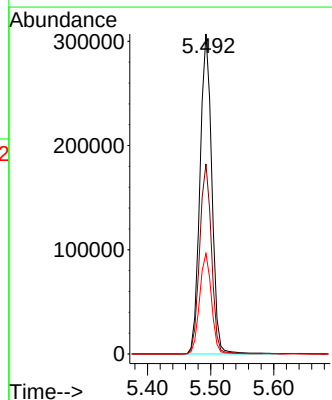
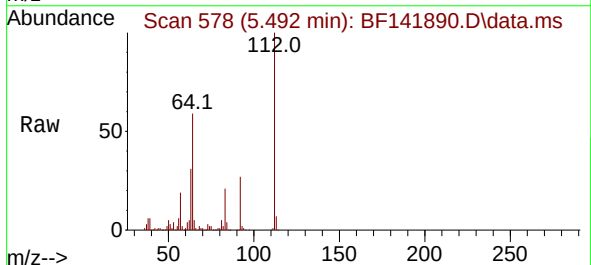
Instrument :
BNA_F
ClientSampleId :
TR-OTR-COMP-01DL

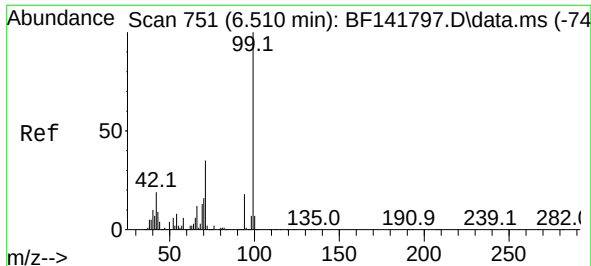
Tgt Ion:152 Resp: 142040
Ion Ratio Lower Upper
152 100
150 155.0 127.5 191.3
115 63.6 51.4 77.2



#5
2-Fluorophenol
Concen: 44.923 ng
RT: 5.492 min Scan# 578
Delta R.T. -0.006 min
Lab File: BF141890.D
Acq: 07 Mar 2025 12:58

Tgt Ion:112 Resp: 399553
Ion Ratio Lower Upper
112 100
64 59.4 51.3 76.9
63 31.4 26.2 39.4

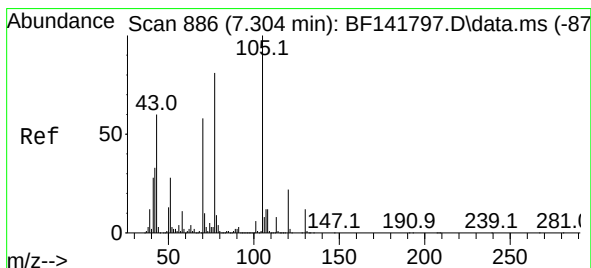
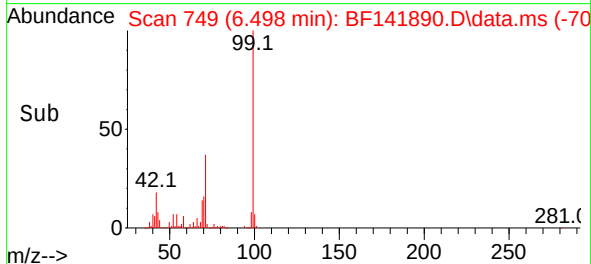
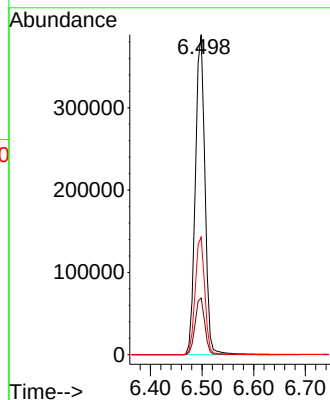
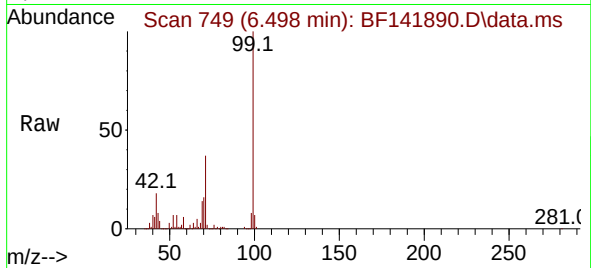




#7
Phenol-d6
Concen: 43.541 ng
RT: 6.498 min Scan# 74
Delta R.T. -0.012 min
Lab File: BF141890.D
Acq: 07 Mar 2025 12:58

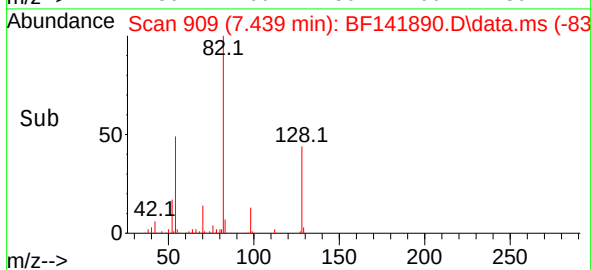
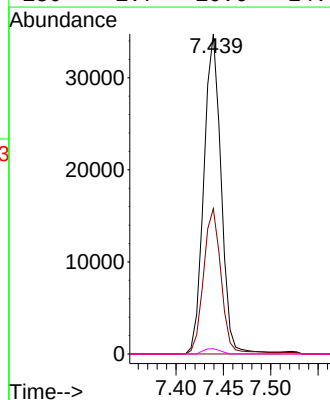
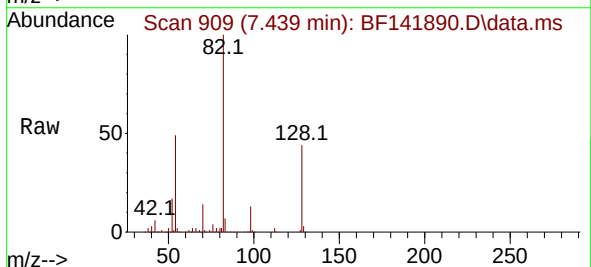
Instrument :
BNA_F
ClientSampleId :
TR-OTR-COMP-01DL

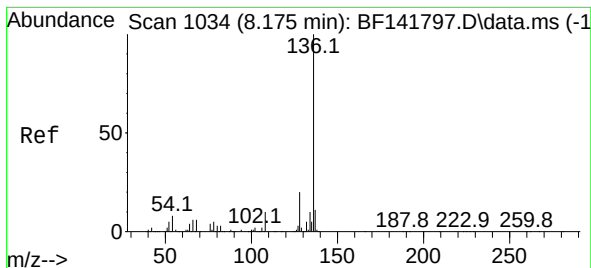
Tgt Ion: 99 Resp: 504063
Ion Ratio Lower Upper
99 100
42 17.7 15.2 22.8
71 36.7 28.2 42.2



#19
n-Nitroso-di-n-propylamine
Concen: 5.785 ng
RT: 7.439 min Scan# 909
Delta R.T. 0.135 min
Lab File: BF141890.D
Acq: 07 Mar 2025 12:58

Tgt Ion: 70 Resp: 44022
Ion Ratio Lower Upper
70 100
42 45.4 45.4 68.0
101 0.0 7.8 11.8#
130 1.7 16.6 24.8#





#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.163 min Scan# 1

Delta R.T. -0.012 min

Lab File: BF141890.D

Acq: 07 Mar 2025 12:58

Instrument :

BNA_F

ClientSampleId :

TR-OTR-COMP-01DL

Tgt Ion:136 Resp: 543256

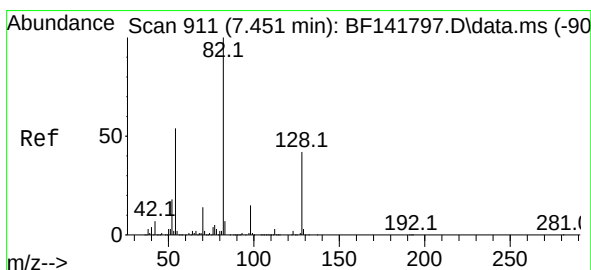
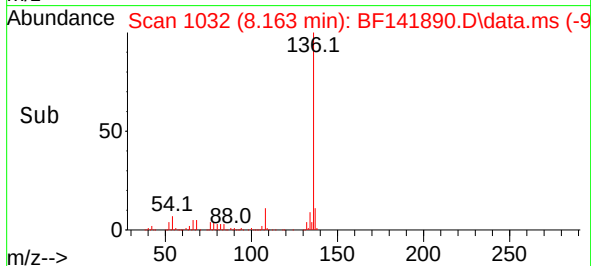
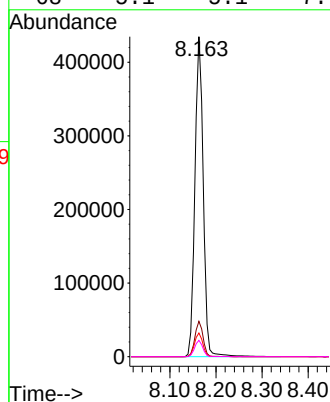
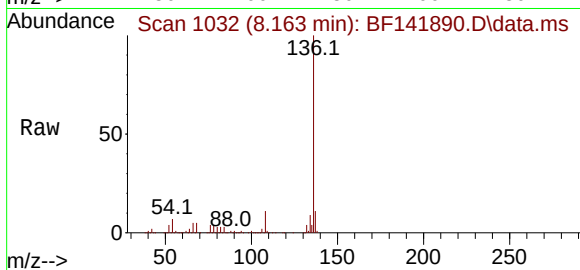
Ion Ratio Lower Upper

136 100

137 11.1 8.9 13.3

54 7.4 6.9 10.3

68 5.1 5.1 7.7#



#23

Nitrobenzene-d5

Concen: 37.434 ng

RT: 7.439 min Scan# 909

Delta R.T. -0.012 min

Lab File: BF141890.D

Acq: 07 Mar 2025 12:58

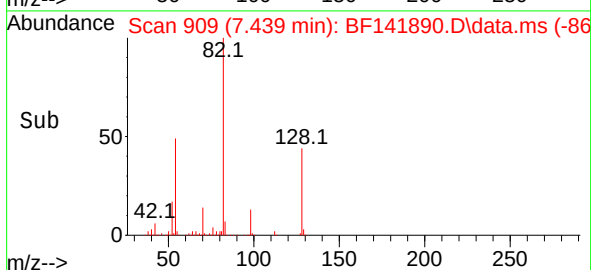
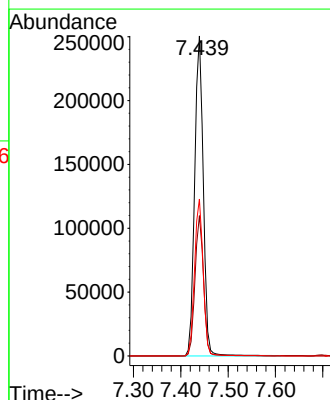
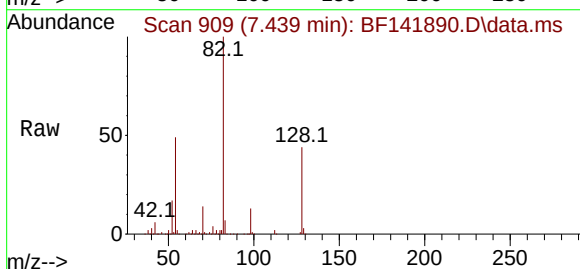
Tgt Ion: 82 Resp: 318154

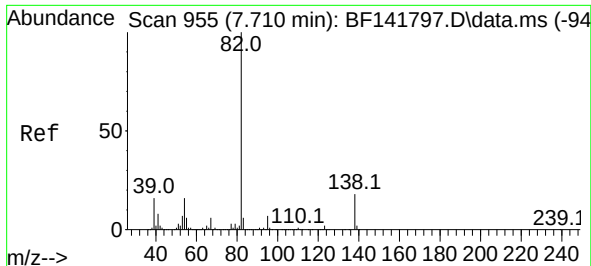
Ion Ratio Lower Upper

82 100

128 43.9 33.5 50.3

54 49.1 42.7 64.1

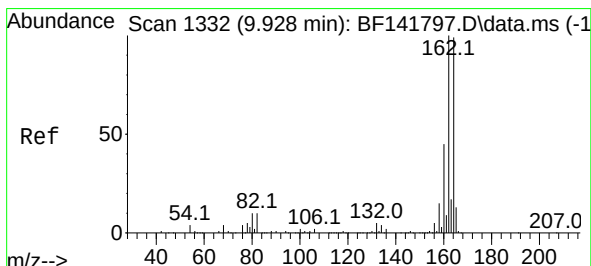
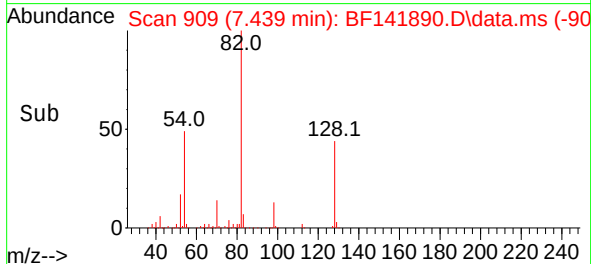
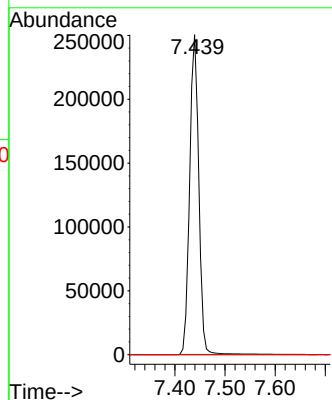
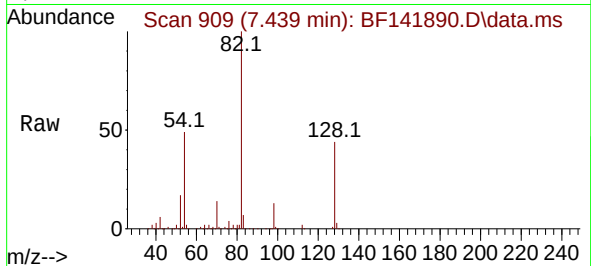




#25
Isophorone
Concen: 17.266 ng
RT: 7.439 min Scan# 909
Delta R.T. -0.271 min
Lab File: BF141890.D
Acq: 07 Mar 2025 12:58

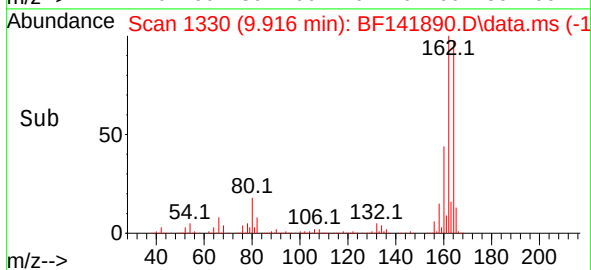
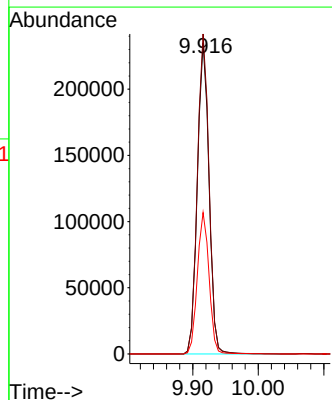
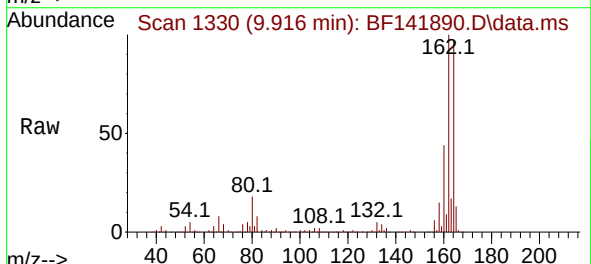
Instrument :
BNA_F
ClientSampleId :
TR-OTR-COMP-01DL

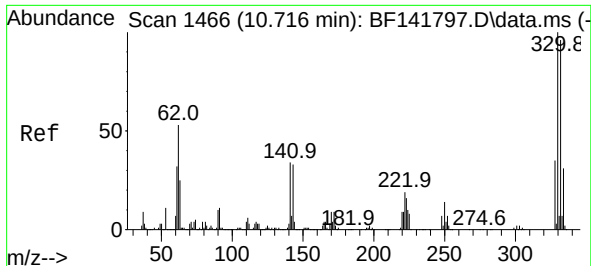
Tgt Ion: 82 Resp: 315249
Ion Ratio Lower Upper
82 100
95 0.0 5.8 8.8#
138 0.0 14.0 21.0#



#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.916 min Scan# 1330
Delta R.T. -0.012 min
Lab File: BF141890.D
Acq: 07 Mar 2025 12:58

Tgt Ion:164 Resp: 291670
Ion Ratio Lower Upper
164 100
162 102.9 80.6 120.8
160 45.5 36.3 54.5





#42

2,4,6-Tribromophenol

Concen: 45.872 ng

RT: 10.698 min Scan# 1463

Delta R.T. -0.018 min

Lab File: BF141890.D

Acq: 07 Mar 2025 12:58

Instrument :

BNA_F

ClientSampleId :

TR-OTR-COMP-01DL

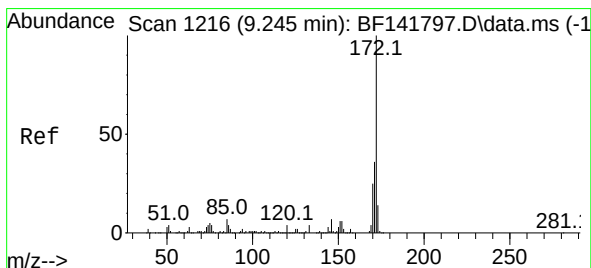
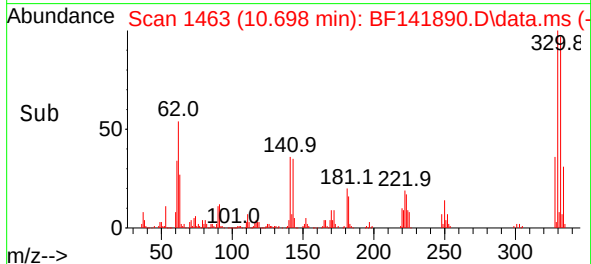
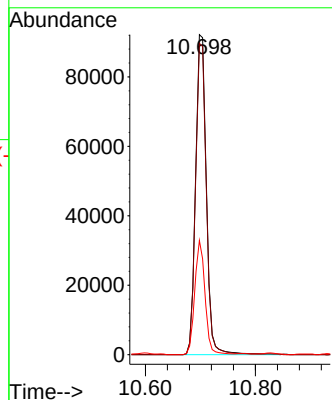
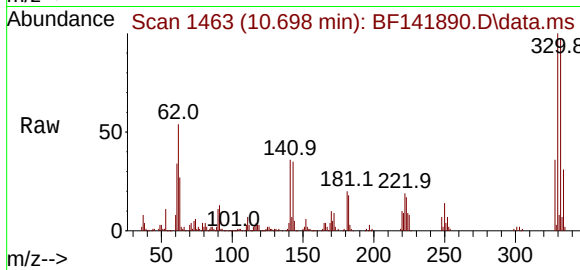
Tgt Ion:330 Resp: 125610

Ion Ratio Lower Upper

330 100

332 96.6 76.6 115.0

141 33.9 29.0 43.4



#45

2-Fluorobiphenyl

Concen: 32.899 ng

RT: 9.233 min Scan# 1214

Delta R.T. -0.012 min

Lab File: BF141890.D

Acq: 07 Mar 2025 12:58

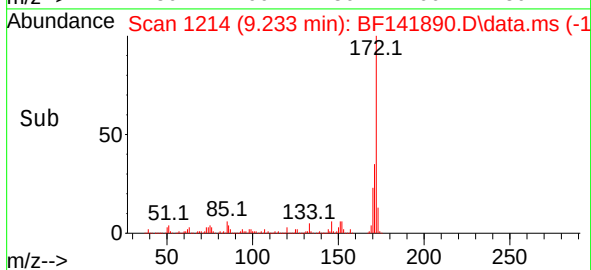
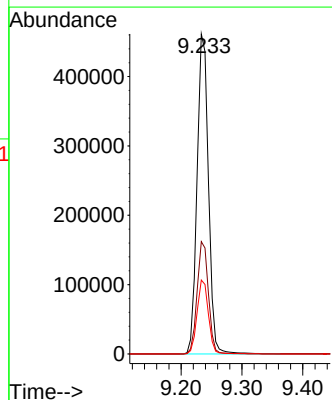
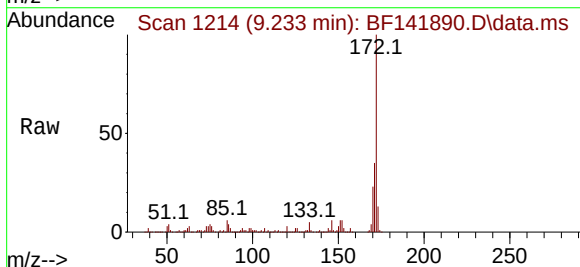
Tgt Ion:172 Resp: 598442

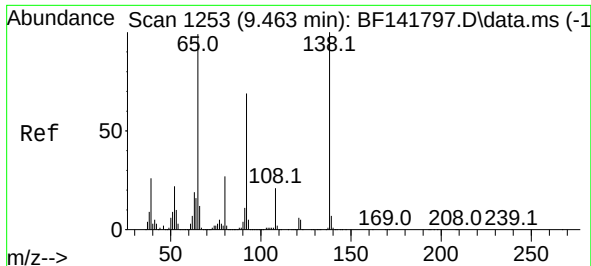
Ion Ratio Lower Upper

172 100

171 35.1 29.2 43.8

170 23.1 19.7 29.5





#48

2-Nitroaniline

Concen: 4.363 ng

RT: 9.575 min Scan# 11

Delta R.T. 0.112 min

Lab File: BF141890.D

Acq: 07 Mar 2025 12:58

Instrument :

BNA_F

ClientSampleId :

TR-OTR-COMP-01DL

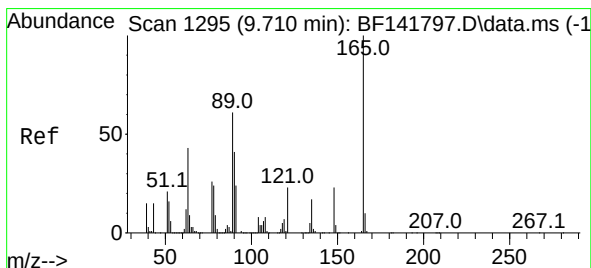
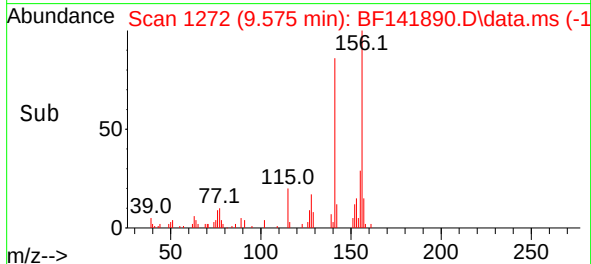
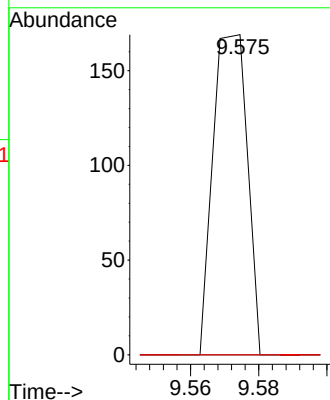
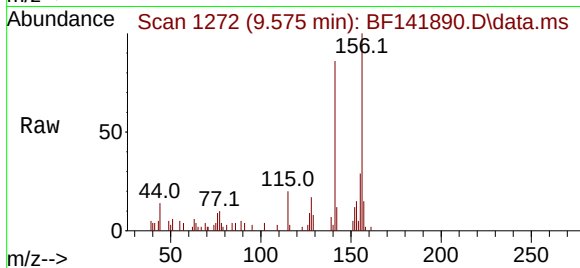
Tgt Ion: 65 Resp: 119

Ion Ratio Lower Upper

65 100

92 0.0 55.7 83.5#

138 0.0 80.6 121.0#



#51

2,6-Dinitrotoluene

Concen: 12.593 ng

RT: 9.916 min Scan# 1330

Delta R.T. 0.206 min

Lab File: BF141890.D

Acq: 07 Mar 2025 12:58

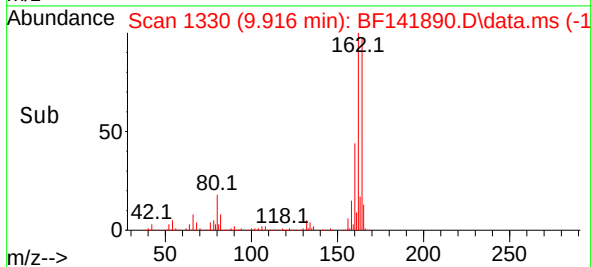
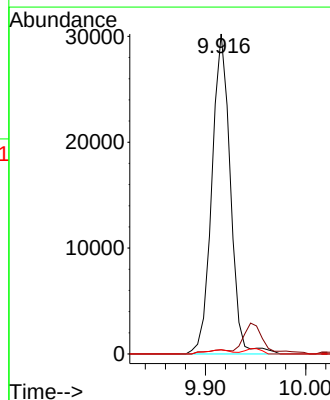
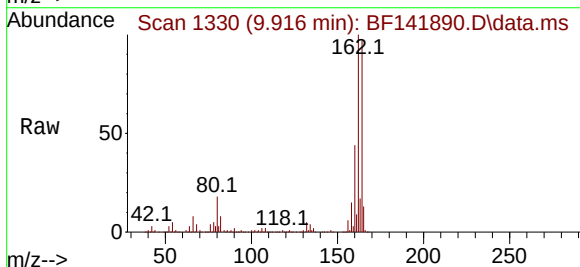
Tgt Ion: 165 Resp: 38769

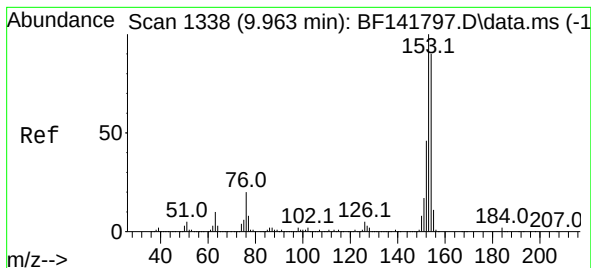
Ion Ratio Lower Upper

165 100

63 1.3 49.5 74.3#

89 1.3 49.0 73.4#





#52

Acenaphthene

Concen: 2.874 ng

RT: 9.951 min Scan# 1336

Delta R.T. -0.012 min

Lab File: BF141890.D

Acq: 07 Mar 2025 12:58

Instrument :

BNA_F

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TR-OTR-COMP-01DL

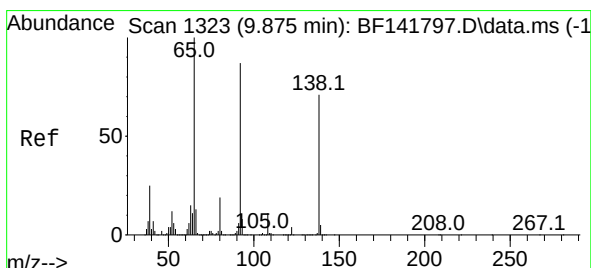
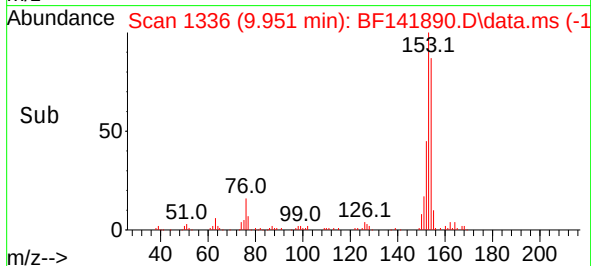
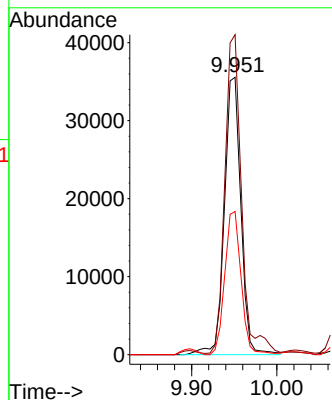
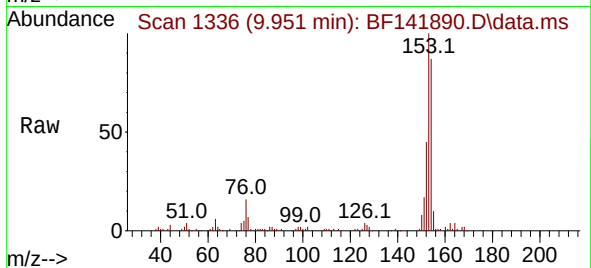
Tgt Ion:154 Resp: 47649

Ion Ratio Lower Upper

154 100

153 115.4 88.7 133.1

152 51.6 40.9 61.3



#53

3-Nitroaniline

Concen: 3.073 ng

RT: 10.122 min Scan# 1365

Delta R.T. 0.247 min

Lab File: BF141890.D

Acq: 07 Mar 2025 12:58

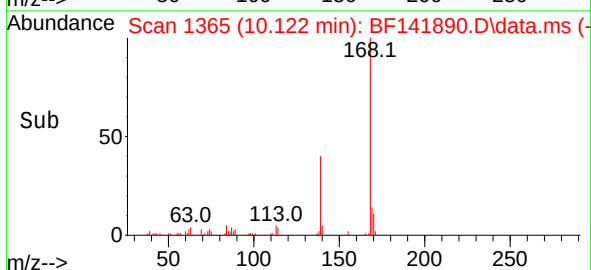
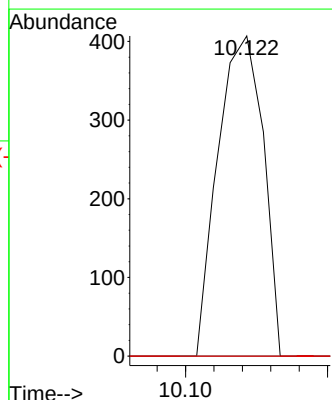
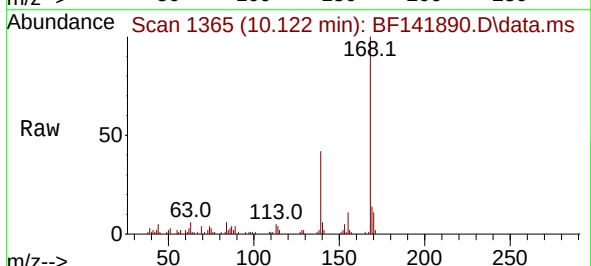
Tgt Ion:138 Resp: 451

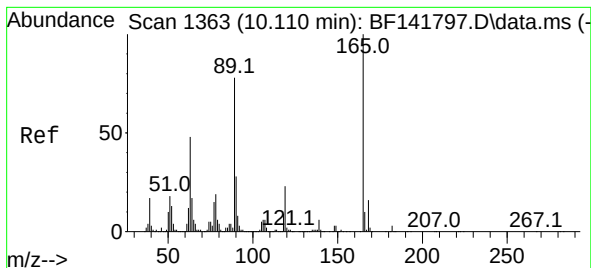
Ion Ratio Lower Upper

138 100

108 0.0 12.7 19.1#

92 0.0 97.9 146.9#





#57

2,4-Dinitrotoluene

Concen: 3.824 ng

RT: 10.074 min Scan# 1418

Delta R.T. -0.036 min

Lab File: BF141890.D

Acq: 07 Mar 2025 12:58

Instrument :

BNA_F

ClientSampleId :

TR-OTR-COMP-01DL

Tgt Ion:165 Resp: 1475

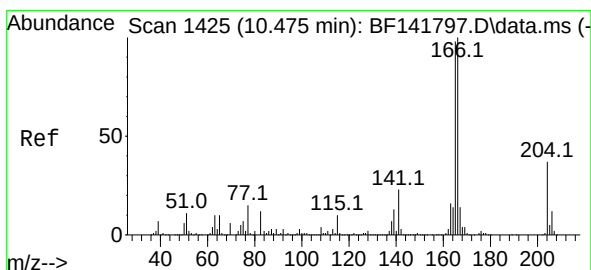
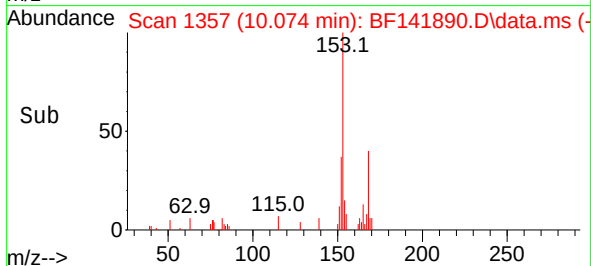
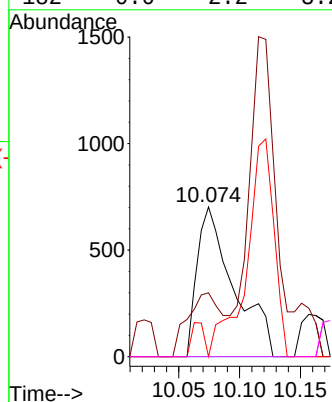
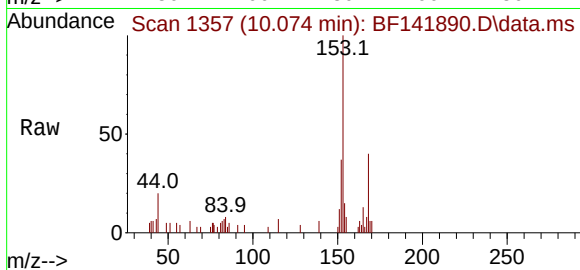
Ion Ratio Lower Upper

165 100

63 42.7 38.8 58.2

89 0.0 62.6 94.0#

182 0.0 2.2 3.2#



#58

Fluorene

Concen: 4.027 ng

RT: 10.463 min Scan# 1423

Delta R.T. -0.012 min

Lab File: BF141890.D

Acq: 07 Mar 2025 12:58

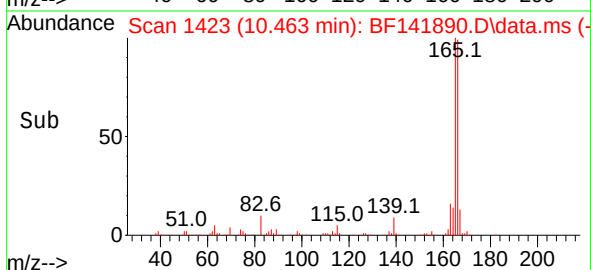
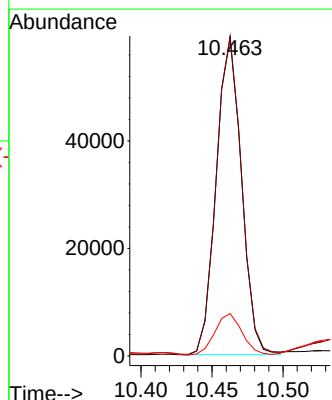
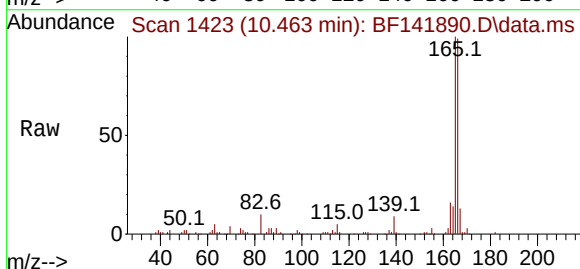
Tgt Ion:166 Resp: 72788

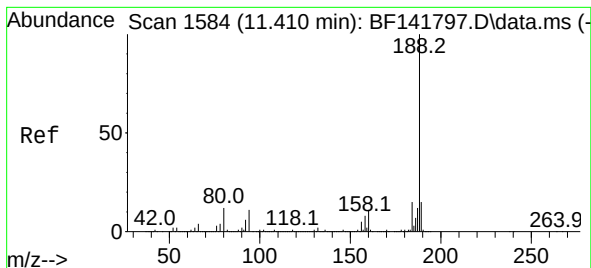
Ion Ratio Lower Upper

166 100

165 100.8 78.6 117.8

167 13.4 11.0 16.4





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.404 min Scan# 11

Delta R.T. -0.006 min

Lab File: BF141890.D

Acq: 07 Mar 2025 12:58

Instrument :

BNA_F

ClientSampleId :

TR-OTR-COMP-01DL

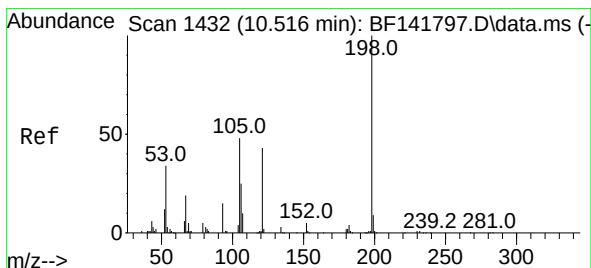
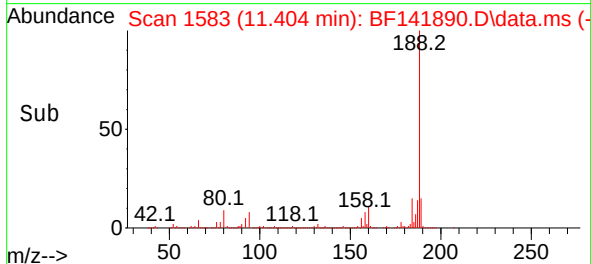
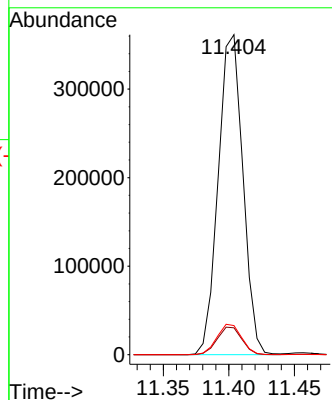
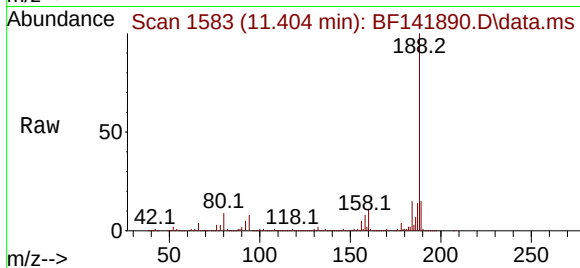
Tgt Ion:188 Resp: 472860

Ion Ratio Lower Upper

188 100

94 8.4 8.9 13.3#

80 9.1 9.7 14.5#



#65

4,6-Dinitro-2-methylphenol

Concen: 8.251 ng

RT: 10.698 min Scan# 1463

Delta R.T. 0.182 min

Lab File: BF141890.D

Acq: 07 Mar 2025 12:58

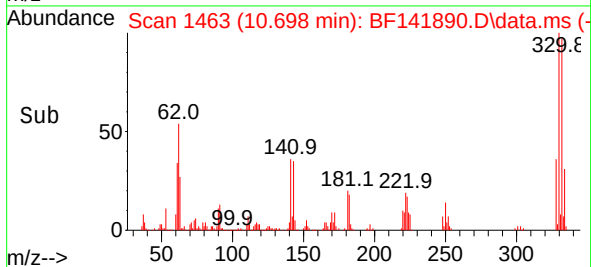
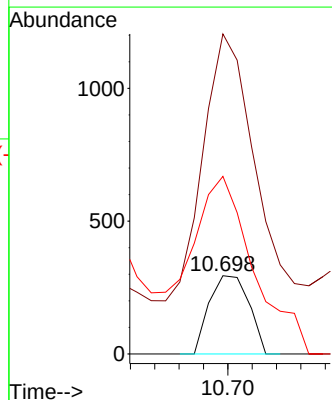
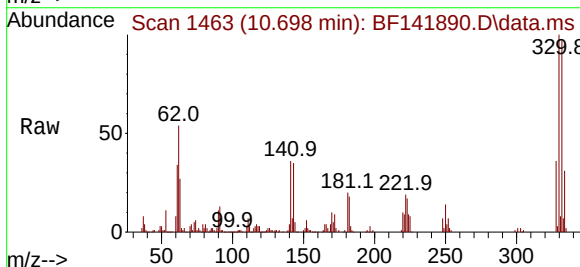
Tgt Ion:198 Resp: 334

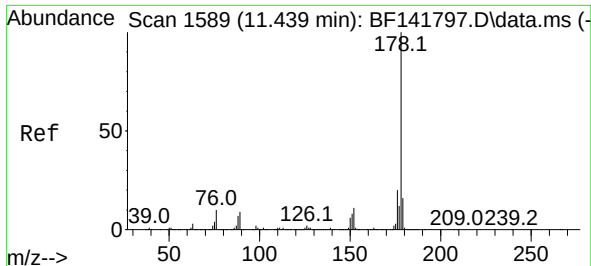
Ion Ratio Lower Upper

198 100

51 408.5 32.1 72.1#

105 226.8 28.5 68.5#

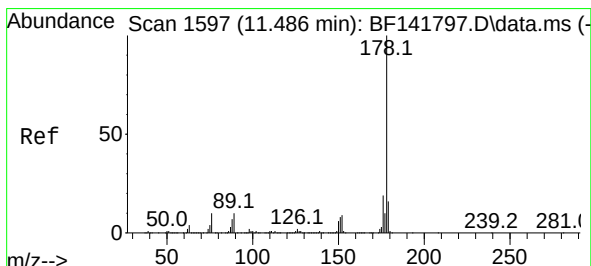
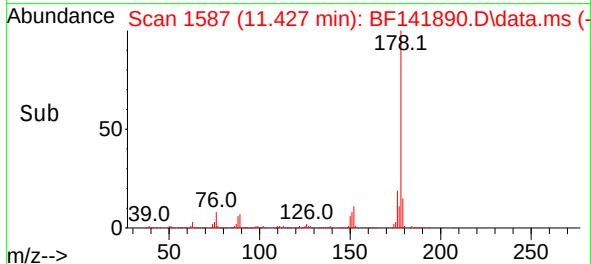
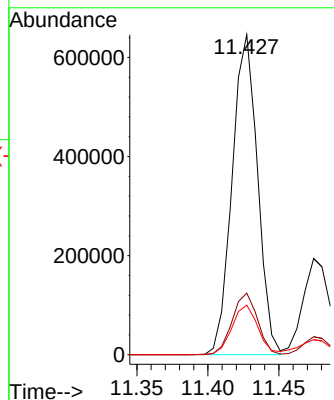
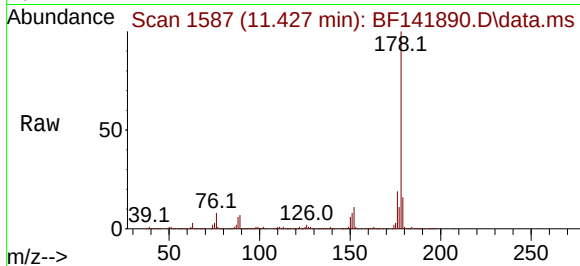




#71
Phenanthrene
Concen: 31.855 ng
RT: 11.427 min Scan# 1589
Delta R.T. -0.012 min
Lab File: BF141890.D
Acq: 07 Mar 2025 12:58

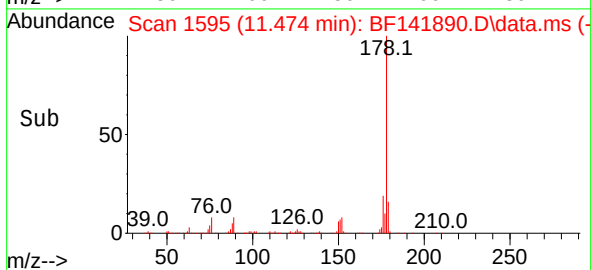
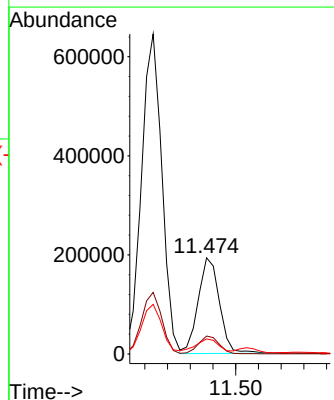
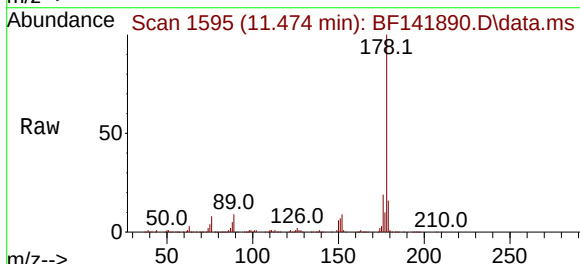
Instrument :
BNA_F
ClientSampleId :
TR-OTR-COMP-01DL

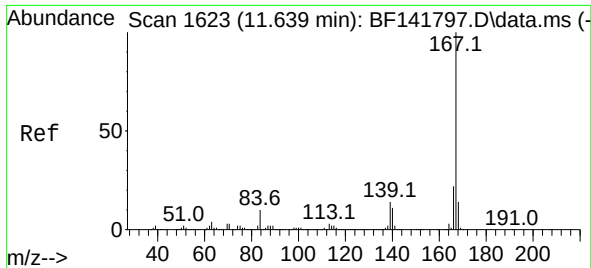
Tgt Ion:178 Resp: 805725
Ion Ratio Lower Upper
178 100
176 19.3 16.0 24.0
179 15.5 12.6 19.0



#72
Anthracene
Concen: 9.901 ng
RT: 11.474 min Scan# 1595
Delta R.T. -0.012 min
Lab File: BF141890.D
Acq: 07 Mar 2025 12:58

Tgt Ion:178 Resp: 250997
Ion Ratio Lower Upper
178 100
176 18.7 15.4 23.0
179 15.7 12.8 19.2

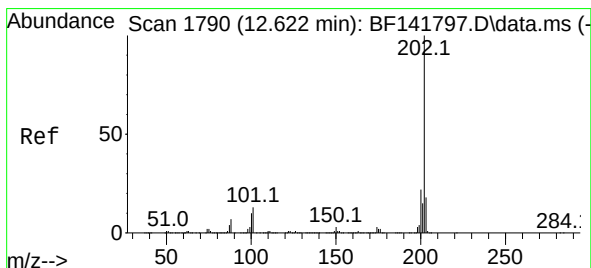
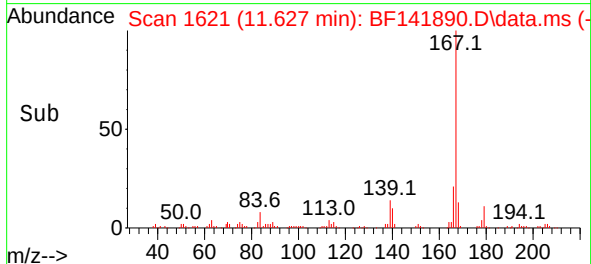
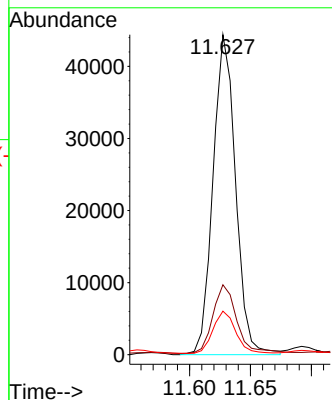
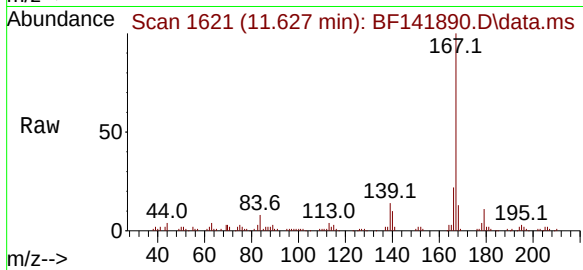




#73
 Carbazole
 Concen: 2.557 ng
 RT: 11.627 min Scan# 1621
 Delta R.T. -0.012 min
 Lab File: BF141890.D
 Acq: 07 Mar 2025 12:58

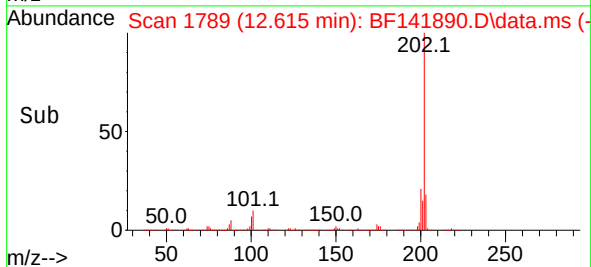
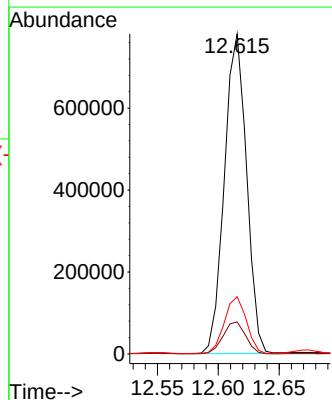
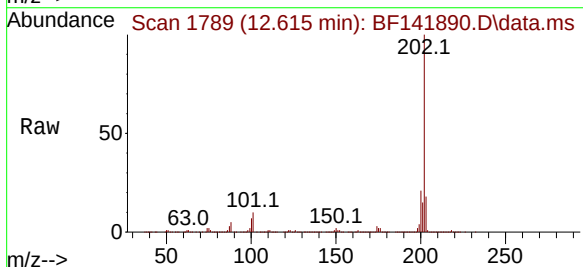
Instrument :
 BNA_F
 ClientSampleId :
 TR-OTR-COMP-01DL

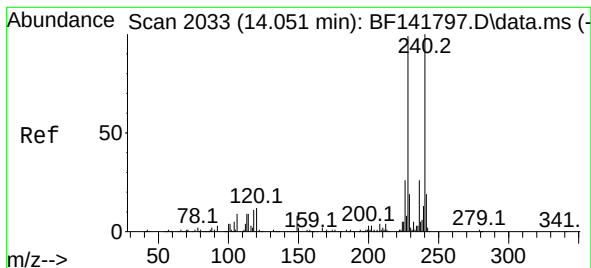
Tgt Ion:167 Resp: 57237
 Ion Ratio Lower Upper
 167 100
 166 21.9 17.5 26.3
 139 13.6 11.3 16.9



#75
 Fluoranthene
 Concen: 38.128 ng
 RT: 12.615 min Scan# 1789
 Delta R.T. -0.006 min
 Lab File: BF141890.D
 Acq: 07 Mar 2025 12:58

Tgt Ion:202 Resp: 988176
 Ion Ratio Lower Upper
 202 100
 101 10.0 0.0 32.8
 203 17.9 0.0 38.0





#76

Chrysene-d12

Concen: 20.000 ng

RT: 14.039 min Scan# 2033

Delta R.T. -0.012 min

Lab File: BF141890.D

Acq: 07 Mar 2025 12:58

Instrument :

BNA_F

ClientSampleId :

TR-OTR-COMP-01DL

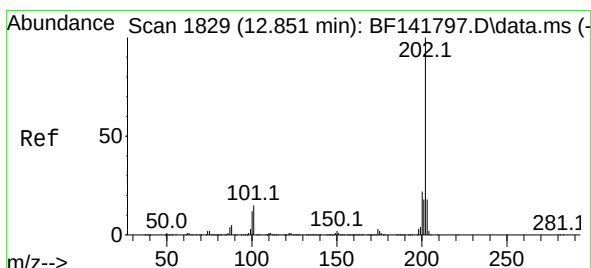
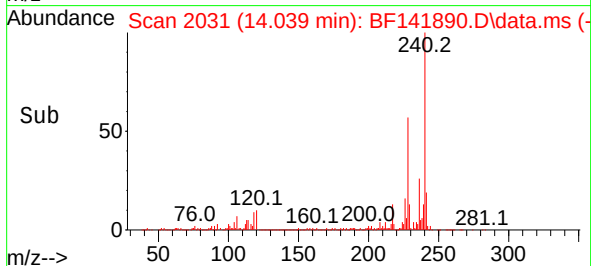
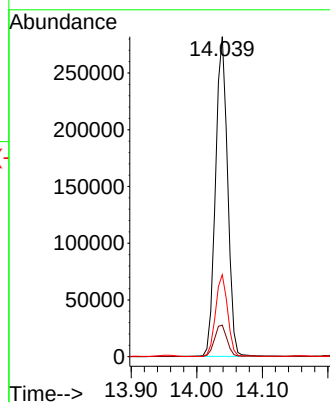
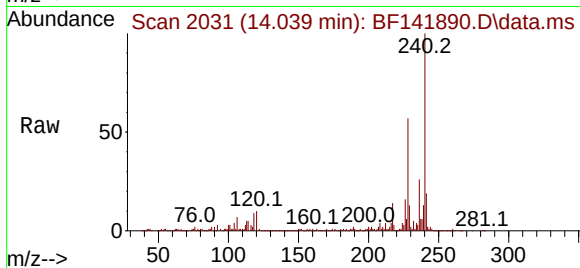
Tgt Ion:240 Resp: 360400

Ion Ratio Lower Upper

240 100

120 9.9 9.7 14.5

236 25.6 21.0 31.4



#78

Pyrene

Concen: 24.383 ng

RT: 12.845 min Scan# 1828

Delta R.T. -0.006 min

Lab File: BF141890.D

Acq: 07 Mar 2025 12:58

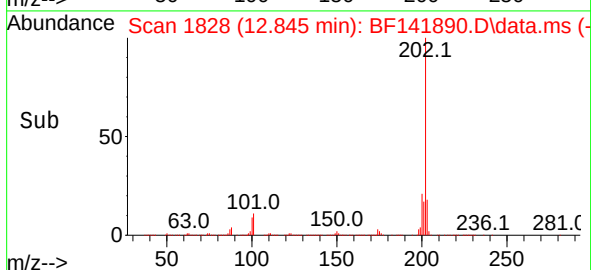
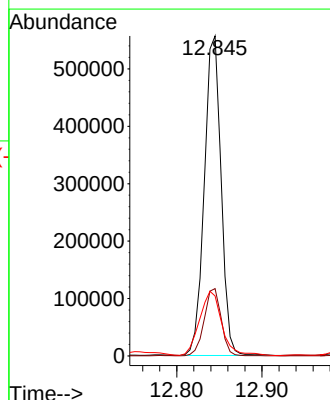
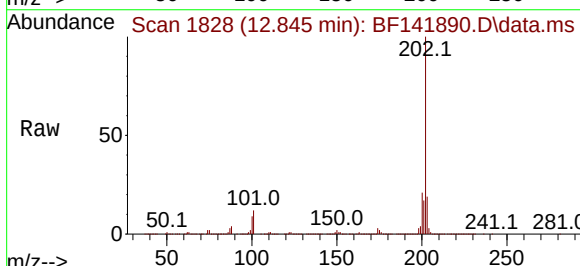
Tgt Ion:202 Resp: 760963

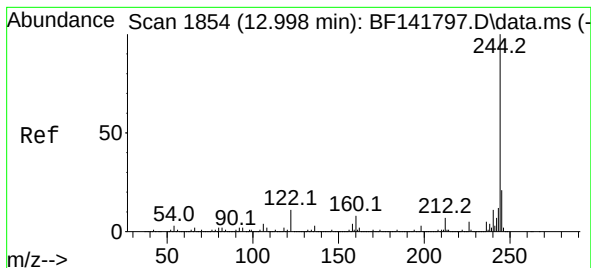
Ion Ratio Lower Upper

202 100

200 21.1 17.4 26.0

203 18.8 14.6 22.0





#79

Terphenyl-d14

Concen: 25.040 ng

RT: 12.980 min Scan# 1851

Delta R.T. -0.018 min

Lab File: BF141890.D

Acq: 07 Mar 2025 12:58

Instrument :

BNA_F

ClientSampleId :

TR-OTR-COMP-01DL

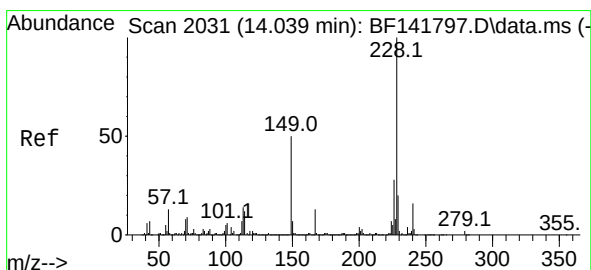
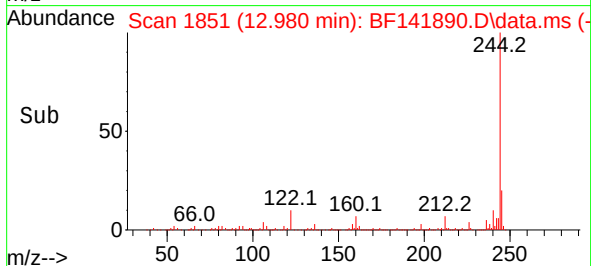
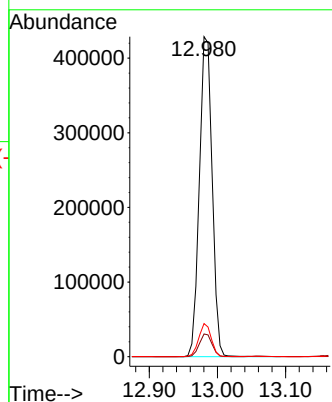
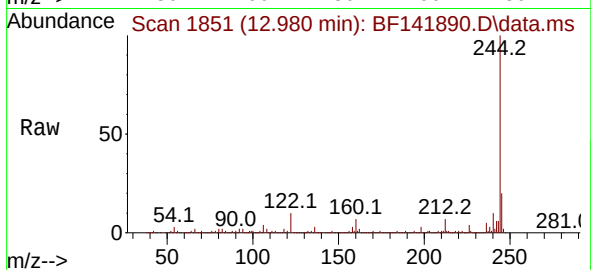
Tgt Ion:244 Resp: 557785

Ion Ratio Lower Upper

244 100

212 7.1 6.0 9.0

122 10.4 9.0 13.6



#81

Benzo(a)anthracene

Concen: 19.576 ng

RT: 14.027 min Scan# 2029

Delta R.T. -0.012 min

Lab File: BF141890.D

Acq: 07 Mar 2025 12:58

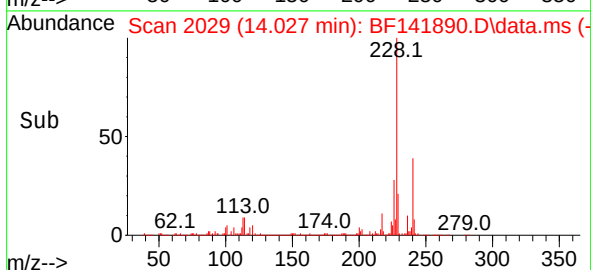
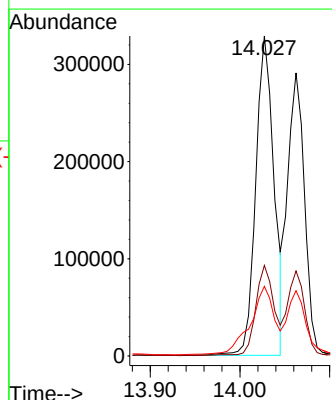
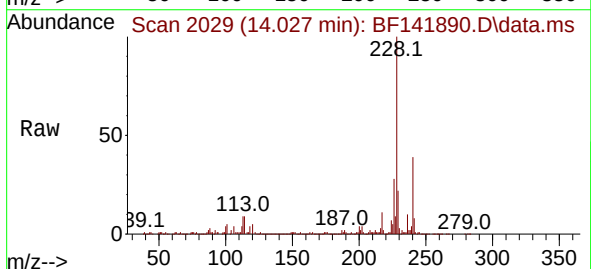
Tgt Ion:228 Resp: 466003

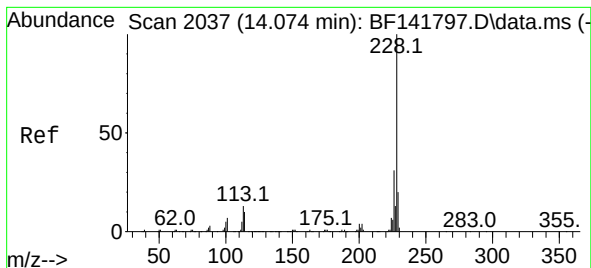
Ion Ratio Lower Upper

228 100

226 28.3 22.1 33.1

229 21.8 16.1 24.1





#83

Chrysene

Concen: 17.227 ng

RT: 14.062 min Scan# 2037

Delta R.T. -0.012 min

Lab File: BF141890.D

Acq: 07 Mar 2025 12:58

Instrument :

BNA_F

ClientSampleId :

TR-OTR-COMP-01DL

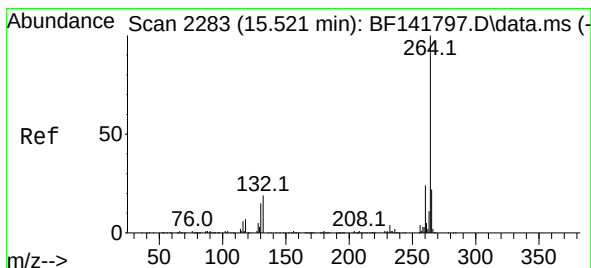
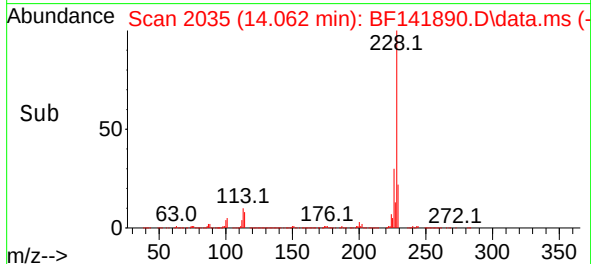
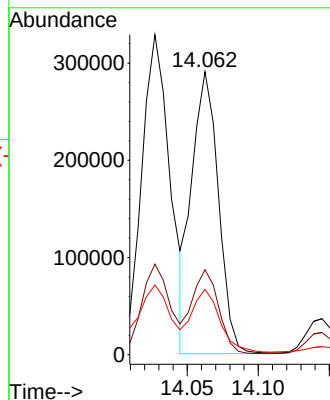
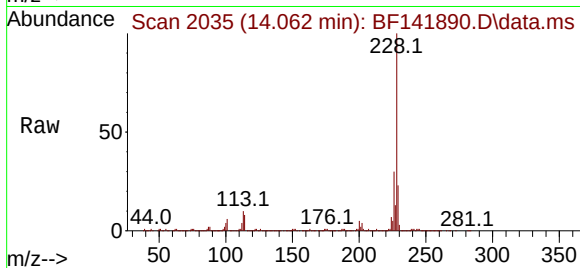
Tgt Ion:228 Resp: 378031

Ion Ratio Lower Upper

228 100

226 30.0 24.6 37.0

229 23.0 16.1 24.1



#86

Perylene-d12

Concen: 20.000 ng

RT: 15.509 min Scan# 2281

Delta R.T. -0.012 min

Lab File: BF141890.D

Acq: 07 Mar 2025 12:58

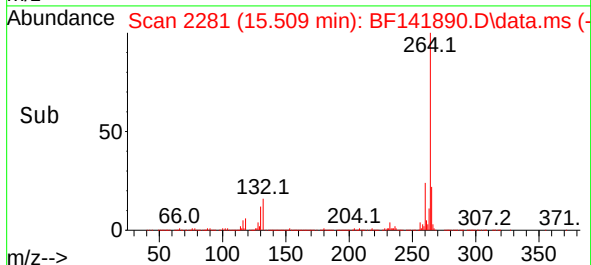
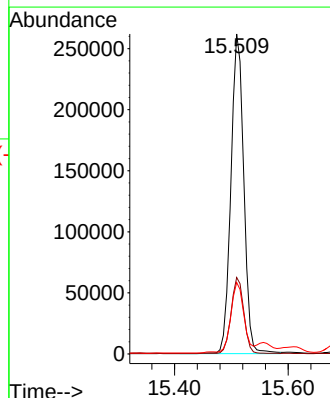
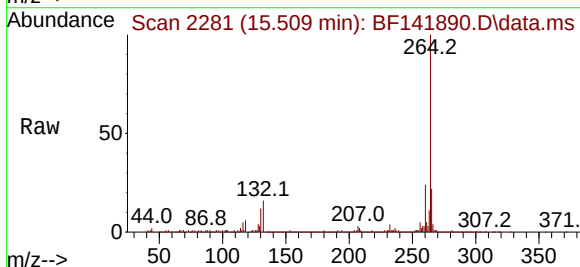
Tgt Ion:264 Resp: 412090

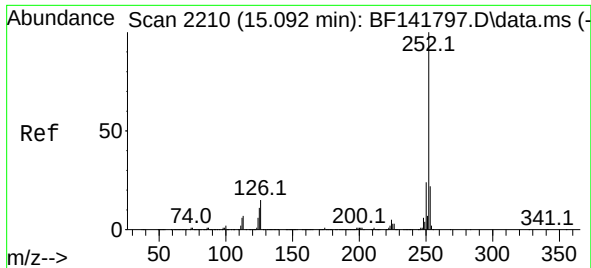
Ion Ratio Lower Upper

264 100

260 23.9 18.9 28.3

265 22.4 17.4 26.0

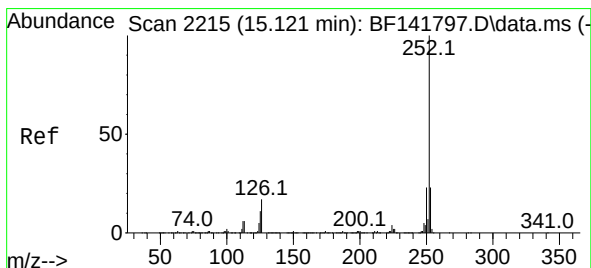
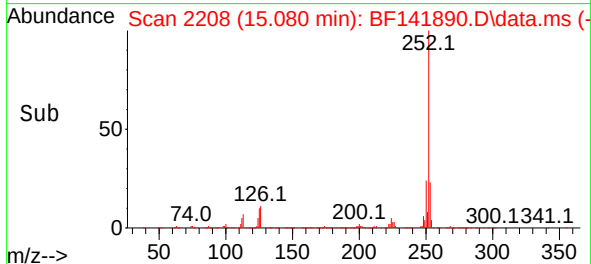
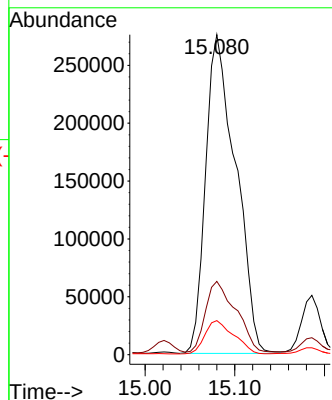
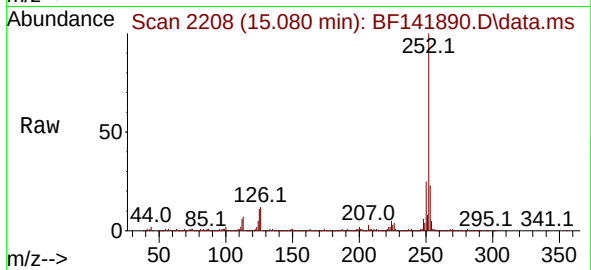




#88
Benzo(b)fluoranthene
Concen: 22.858 ng
RT: 15.080 min Scan# 21
Delta R.T. -0.012 min
Lab File: BF141890.D
Acq: 07 Mar 2025 12:58

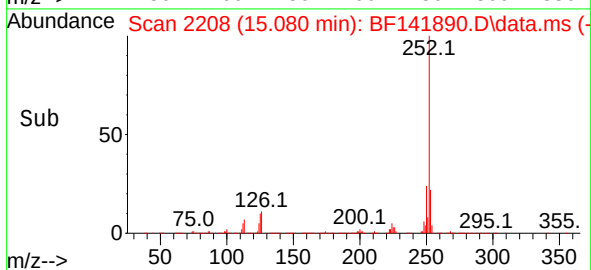
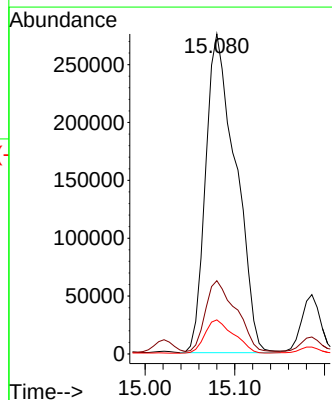
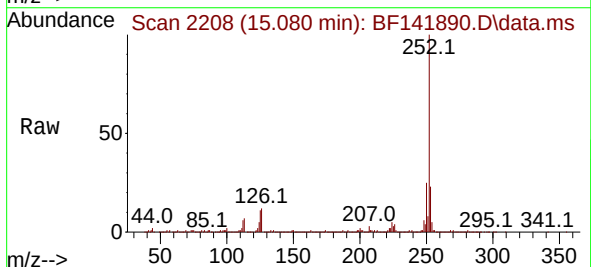
Instrument :
BNA_F
ClientSampleId :
TR-OTR-COMP-01DL

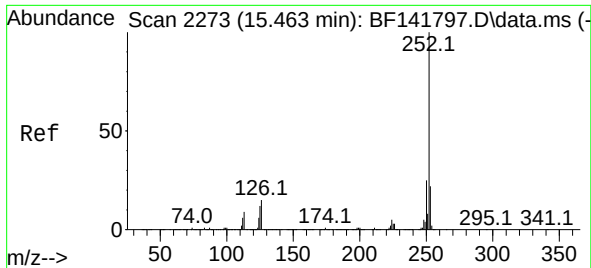
Tgt Ion:252 Resp: 641625
Ion Ratio Lower Upper
252 100
253 22.9 17.7 26.5
125 10.7 8.6 13.0



#89
Benzo(k)fluoranthene
Concen: 26.893 ng
RT: 15.080 min Scan# 2208
Delta R.T. -0.041 min
Lab File: BF141890.D
Acq: 07 Mar 2025 12:58

Tgt Ion:252 Resp: 641625
Ion Ratio Lower Upper
252 100
253 22.9 17.8 26.8
125 10.7 8.8 13.2

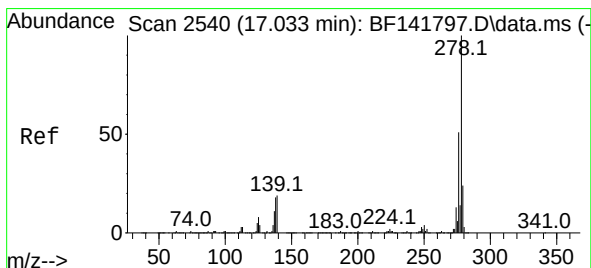
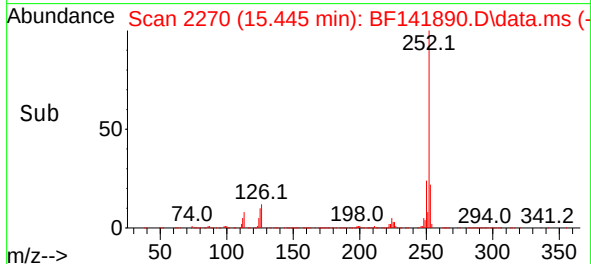
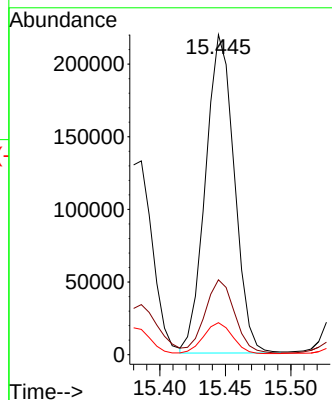
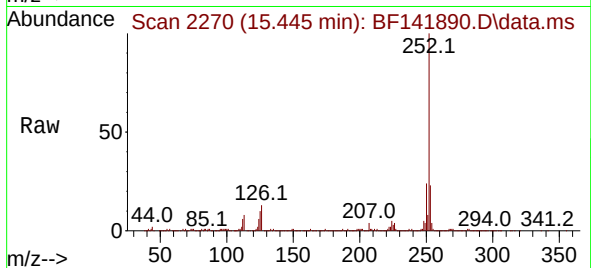




#90
Benzo(a)pyrene
Concen: 14.892 ng
RT: 15.445 min Scan# 21
Delta R.T. -0.018 min
Lab File: BF141890.D
Acq: 07 Mar 2025 12:58

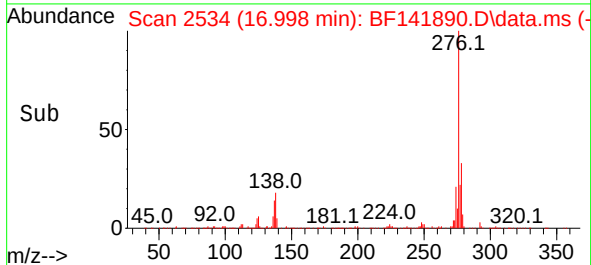
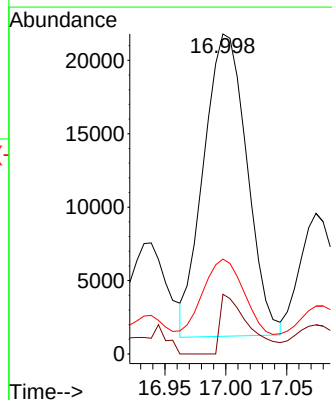
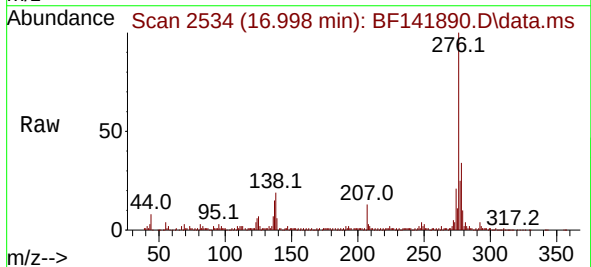
Instrument :
BNA_F
ClientSampleId :
TR-OTR-COMP-01DL

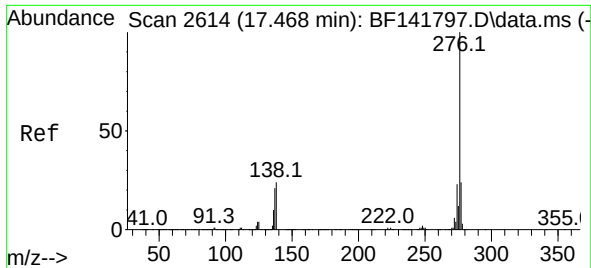
Tgt Ion:252 Resp: 335260
Ion Ratio Lower Upper
252 100
253 23.4 17.5 26.3
125 10.0 9.4 14.2



#91
Dibenzo(a,h)anthracene
Concen: 2.377 ng
RT: 16.998 min Scan# 2534
Delta R.T. -0.036 min
Lab File: BF141890.D
Acq: 07 Mar 2025 12:58

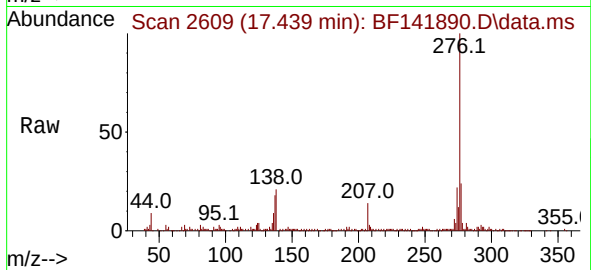
Tgt Ion:278 Resp: 50916
Ion Ratio Lower Upper
278 100
139 18.7 14.9 22.3
279 29.6 19.3 28.9#





#92
 Benzo(g,h,i)perylene
 Concen: 6.263 ng
 RT: 17.439 min Scan# 20
 Delta R.T. -0.030 min
 Lab File: BF141890.D
 Acq: 07 Mar 2025 12:58

Instrument :
 BNA_F
 ClientSampleId :
 TR-OTR-COMP-01DL



Tgt Ion:276 Resp: 137440
 Ion Ratio Lower Upper
 276 100
 277 24.3 19.4 29.0
 138 20.9 19.3 28.9

