

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF062425\
 Data File : BF142817.D
 Acq On : 24 Jun 2025 13:24
 Operator : RC/JU
 Sample : Q2381-01
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 291431

Quant Time: Jun 24 13:47:50 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)

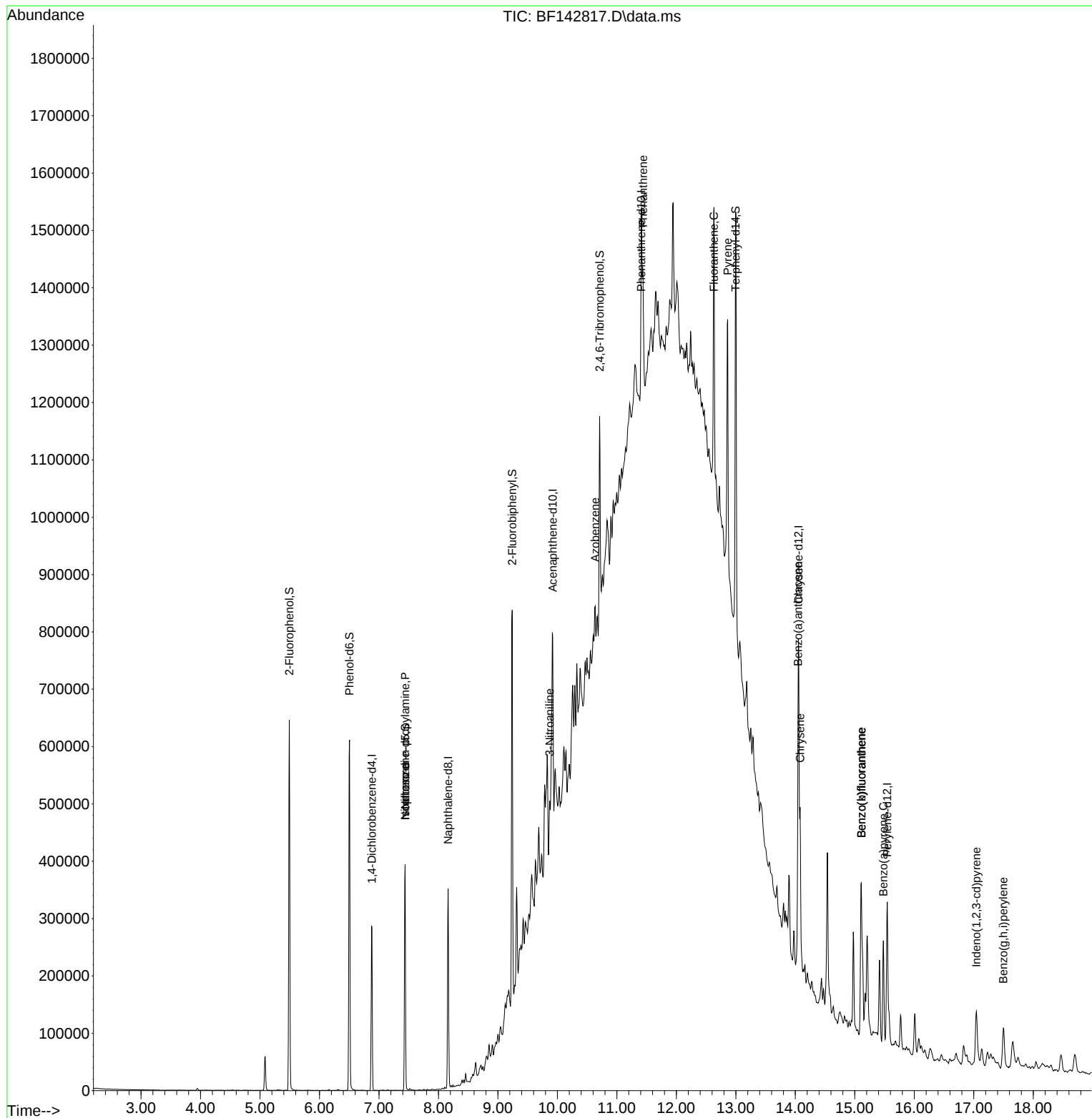
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.881	152	64571	20.000	ng	0.00
21) Naphthalene-d8	8.163	136	218177	20.000	ng	0.00
39) Acenaphthene-d10	9.922	164	93310	20.000	ng	0.00
64) Phenanthrene-d10	11.410	188	158454	20.000	ng	# 0.00
76) Chrysene-d12	14.057	240	192763	20.000	ng	0.00
86) Perylene-d12	15.545	264	144808	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.493	112	240869	62.107	ng	0.00
7) Phenol-d6	6.504	99	278508	60.867	ng	0.00
23) Nitrobenzene-d5	7.440	82	163847	41.192	ng	0.00
42) 2,4,6-Tribromophenol	10.710	330	62017	64.586	ng	0.00
45) 2-Fluorobiphenyl	9.239	172	308839	43.480	ng	0.00
79) Terphenyl-d14	12.998	244	366386	26.262	ng	0.00
Target Compounds						Qvalue
19) n-Nitroso-di-n-propyla...	7.440	70	21348	8.022	ng	# 76
25) Isophorone	7.440	82	162350	25.444	ng	# 62
53) 3-Nitroaniline	9.869	138	6213	4.254	ng	# 26
63) Azobenzene	10.634	77	24956	4.715	ng	# 4
71) Phenanthrene	11.439	178	107460	12.519	ng	# 91
75) Fluoranthene	12.633	202	307089	37.698	ng	99
78) Pyrene	12.863	202	283799	15.707	ng	98
81) Benzo(a)anthracene	14.045	228	160539	12.345	ng	97
83) Chrysene	14.080	228	151449	13.052	ng	98
87) Indeno(1,2,3-cd)pyrene	17.045	276	60010	5.441	ng	95
88) Benzo(b)fluoranthene	15.110	252	239462	28.578	ng	98
89) Benzo(k)fluoranthene	15.110	252	239462	30.546	ng	98
90) Benzo(a)pyrene	15.480	252	107695	13.304	ng	98
92) Benzo(g,h,i)perylene	17.498	276	59400	6.647	ng	98

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

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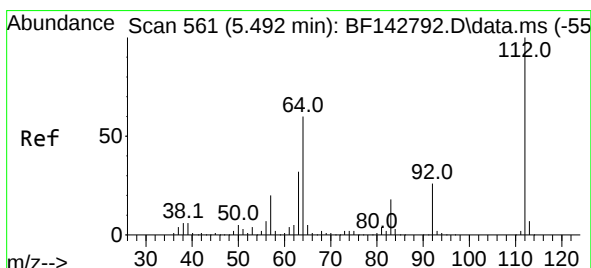
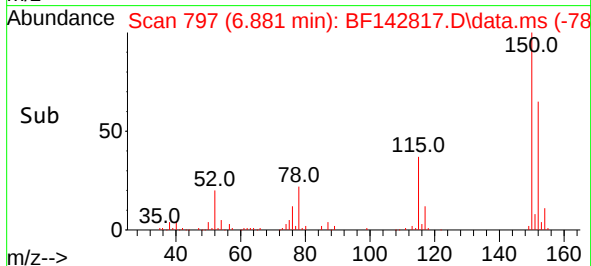
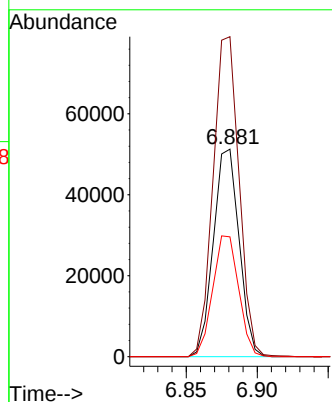
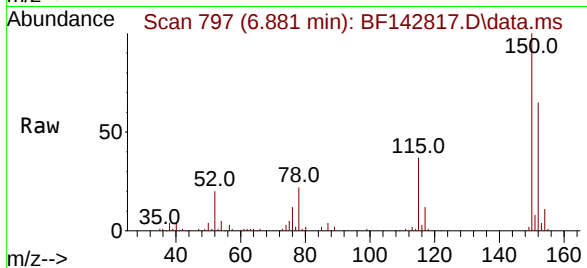




#1
 1,4-Dichlorobenzene-d4
 Concen: 20.000 ng
 RT: 6.881 min Scan# 797
 Delta R.T. -0.000 min
 Lab File: BF142817.D
 Acq: 24 Jun 2025 13:24

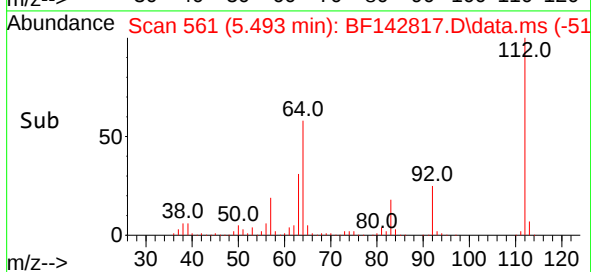
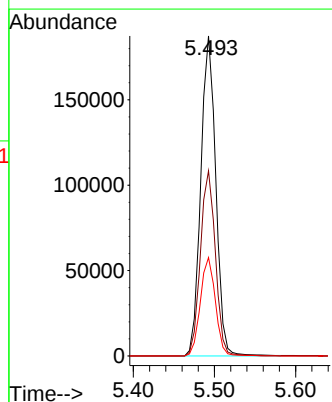
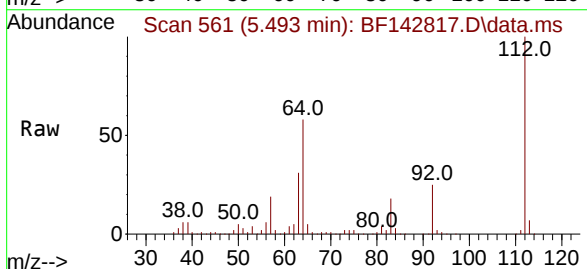
Instrument :
 BNA_F
 ClientSampleId :
 291431

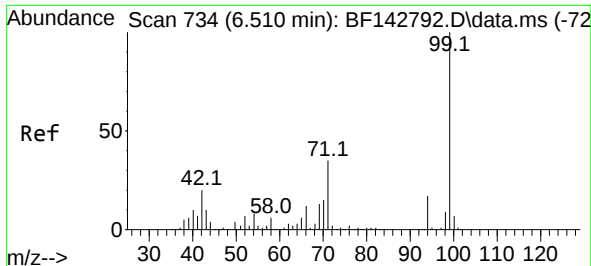
Tgt Ion:152 Resp: 64571
 Ion Ratio Lower Upper
 152 100
 150 154.3 127.2 190.8
 115 57.7 46.6 69.8



#5
 2-Fluorophenol
 Concen: 62.107 ng
 RT: 5.493 min Scan# 561
 Delta R.T. 0.001 min
 Lab File: BF142817.D
 Acq: 24 Jun 2025 13:24

Tgt Ion:112 Resp: 240869
 Ion Ratio Lower Upper
 112 100
 64 57.9 48.2 72.2
 63 30.7 25.7 38.5

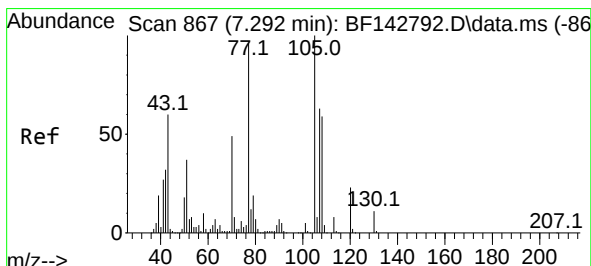
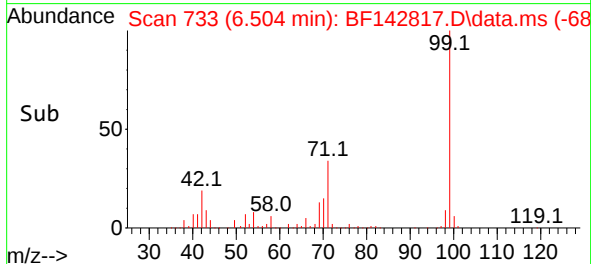
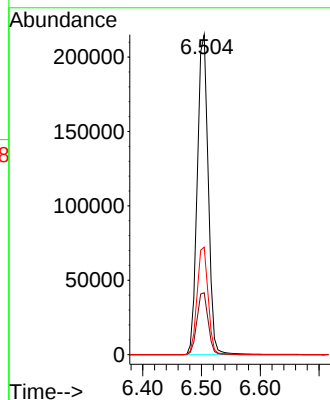
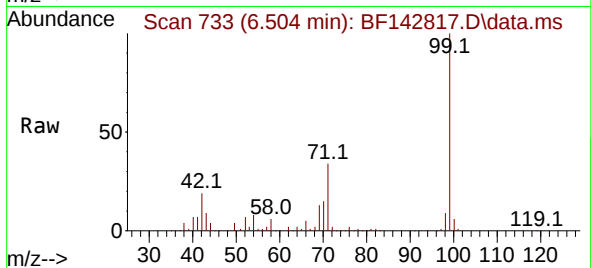




#7
Phenol-d6
Concen: 60.867 ng
RT: 6.504 min Scan# 71
Delta R.T. -0.006 min
Lab File: BF142817.D
Acq: 24 Jun 2025 13:24

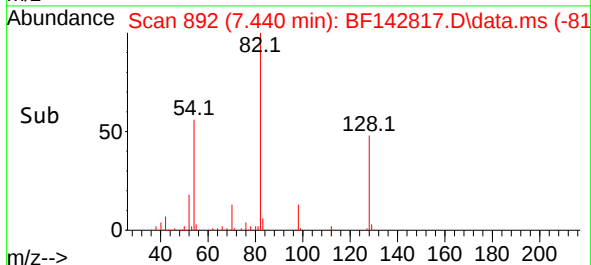
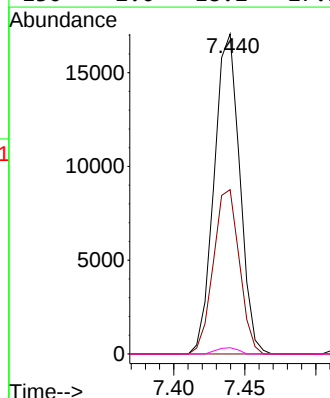
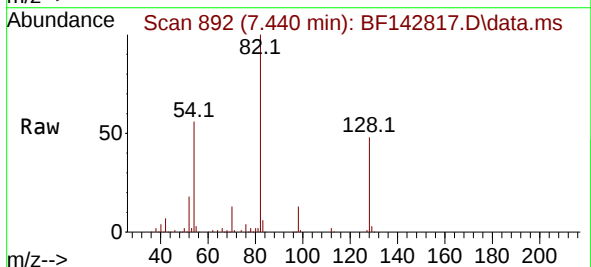
Instrument :
BNA_F
ClientSampleId :
291431

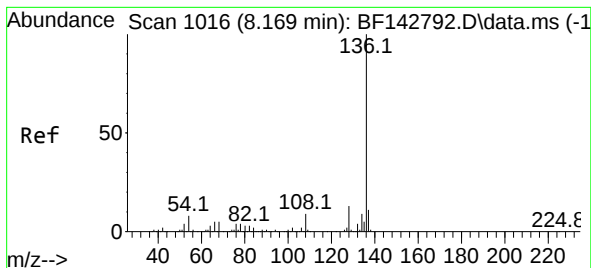
Tgt Ion: 99 Resp: 278508
Ion Ratio Lower Upper
99 100
42 19.3 15.9 23.9
71 33.6 27.8 41.8



#19
n-Nitroso-di-n-propylamine
Concen: 8.022 ng
RT: 7.440 min Scan# 892
Delta R.T. 0.147 min
Lab File: BF142817.D
Acq: 24 Jun 2025 13:24

Tgt Ion: 70 Resp: 21348
Ion Ratio Lower Upper
70 100
42 51.3 52.1 78.1#
101 0.0 8.2 12.2#
130 2.0 18.2 27.2#





#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.163 min Scan# 1016

Delta R.T. -0.006 min

Lab File: BF142817.D

Acq: 24 Jun 2025 13:24

Instrument :

BNA_F

ClientSampleId :

291431

Tgt Ion:136 Resp: 218177

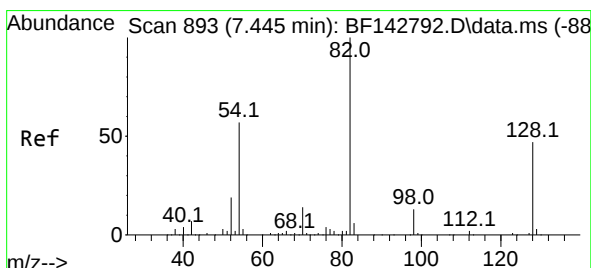
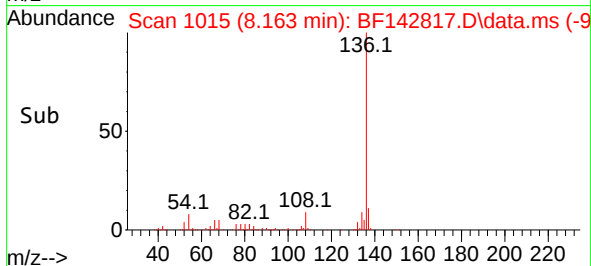
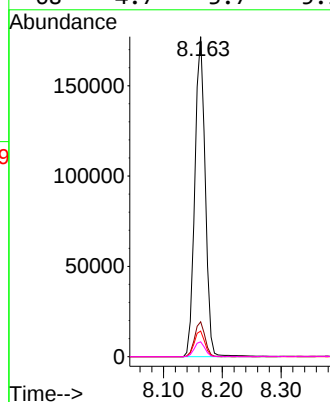
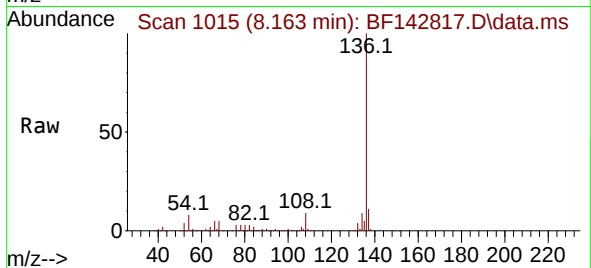
Ion Ratio Lower Upper

136 100

137 10.9 8.4 12.6

54 8.0 6.3 9.5

68 4.7 3.7 5.5



#23

Nitrobenzene-d5

Concen: 41.192 ng

RT: 7.440 min Scan# 892

Delta R.T. -0.005 min

Lab File: BF142817.D

Acq: 24 Jun 2025 13:24

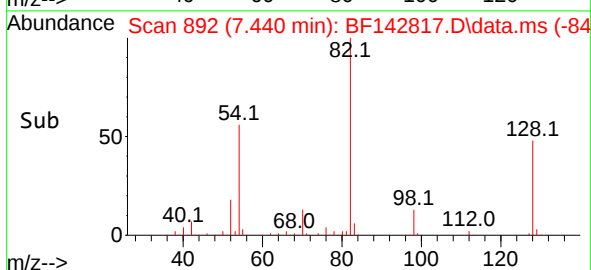
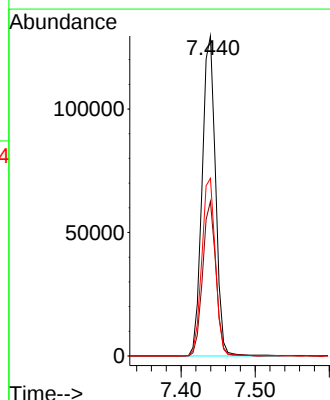
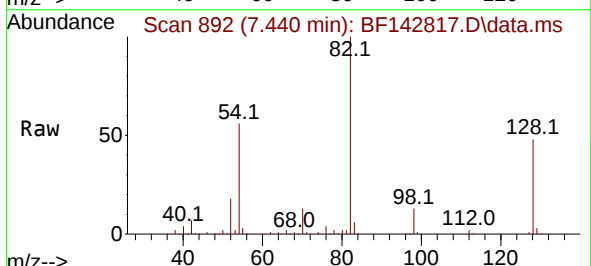
Tgt Ion: 82 Resp: 163847

Ion Ratio Lower Upper

82 100

128 48.3 37.7 56.5

54 55.6 45.7 68.5

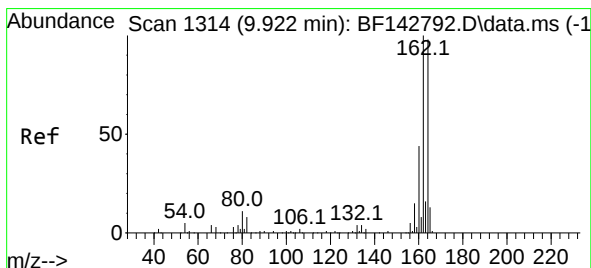
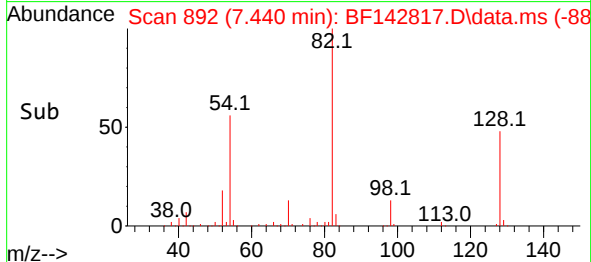
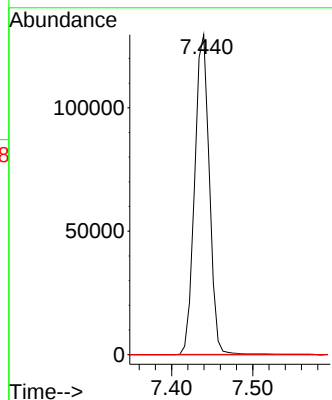
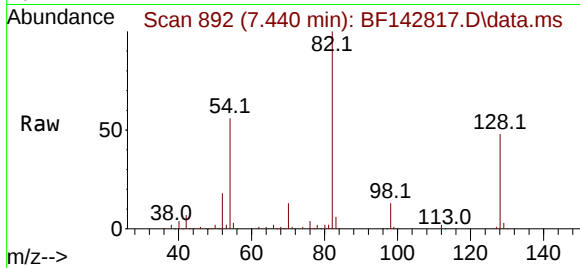




#25
Isophorone
Concen: 25.444 ng
RT: 7.440 min Scan# 892
Delta R.T. -0.264 min
Lab File: BF142817.D
Acq: 24 Jun 2025 13:24

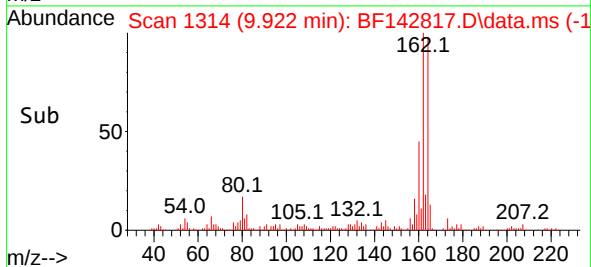
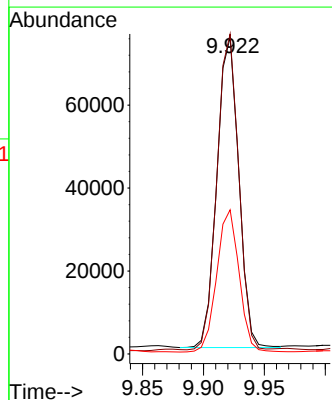
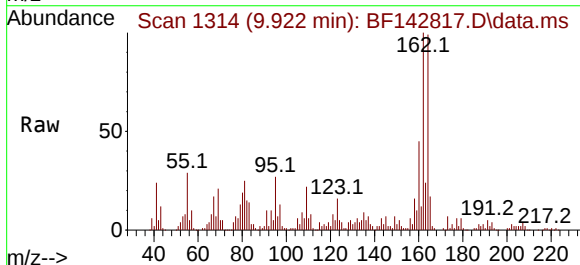
Instrument :
BNA_F
ClientSampleId :
291431

Tgt Ion: 82 Resp: 162350
Ion Ratio Lower Upper
82 100
95 0.0 6.2 9.2#
138 0.0 16.2 24.4#



#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.922 min Scan# 1314
Delta R.T. 0.000 min
Lab File: BF142817.D
Acq: 24 Jun 2025 13:24

Tgt Ion:164 Resp: 93310
Ion Ratio Lower Upper
164 100
162 101.0 81.8 122.8
160 45.5 36.0 54.0





#42

2,4,6-Tribromophenol

Concen: 64.586 ng

RT: 10.710 min Scan# 1449

Delta R.T. -0.006 min

Lab File: BF142817.D

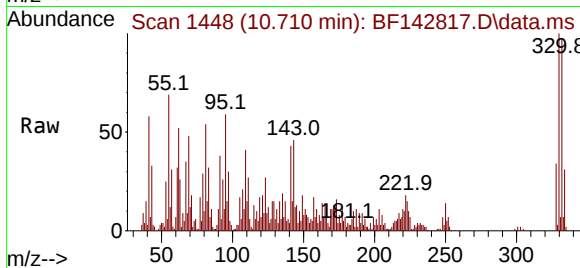
Acq: 24 Jun 2025 13:24

Instrument :

BNA_F

ClientSampleId :

291431



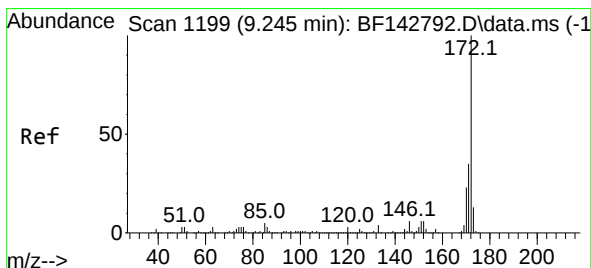
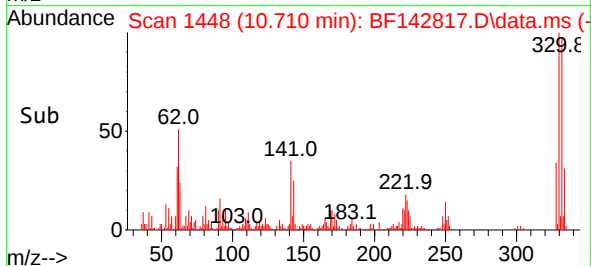
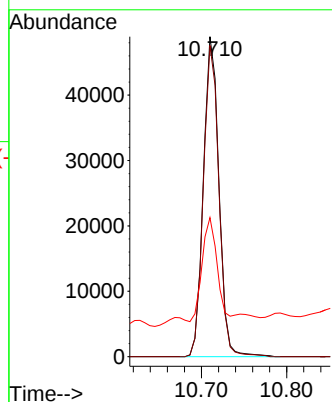
Tgt Ion:330 Resp: 62017

Ion Ratio Lower Upper

330 100

332 97.1 75.0 112.6

141 31.1 25.3 37.9



#45

2-Fluorobiphenyl

Concen: 43.480 ng

RT: 9.239 min Scan# 1198

Delta R.T. -0.005 min

Lab File: BF142817.D

Acq: 24 Jun 2025 13:24

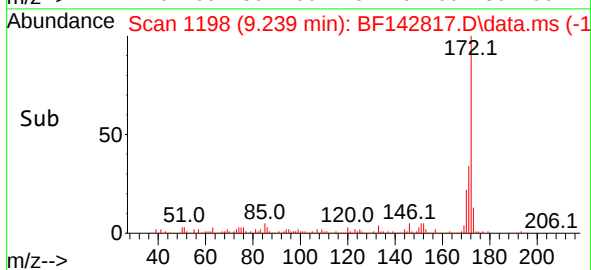
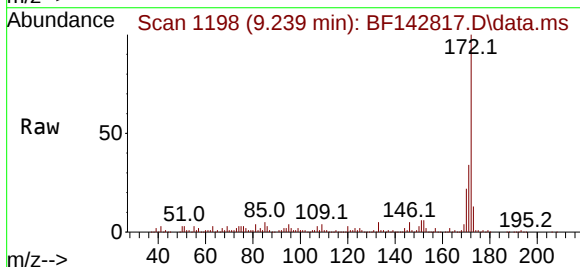
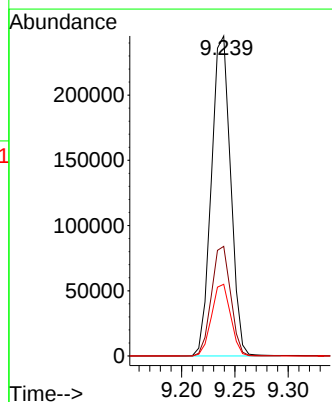
Tgt Ion:172 Resp: 308839

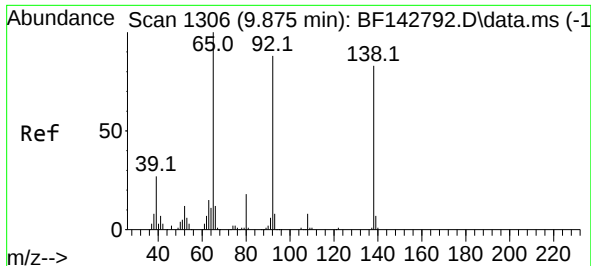
Ion Ratio Lower Upper

172 100

171 34.3 28.2 42.4

170 22.4 18.5 27.7

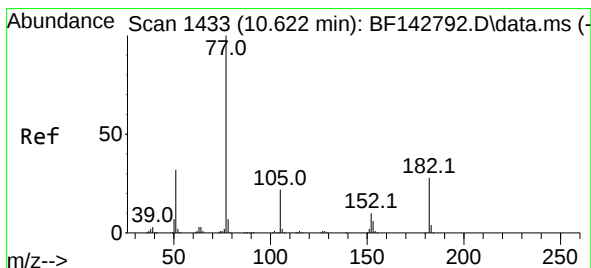
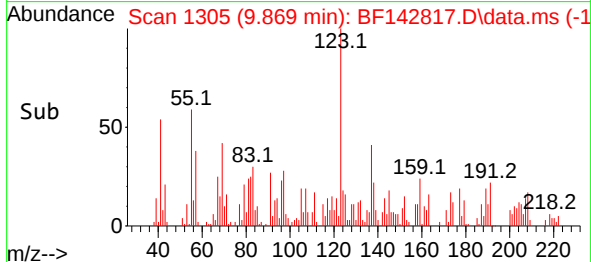
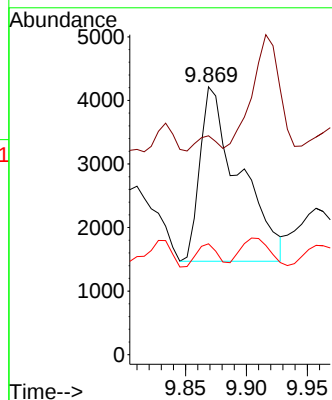
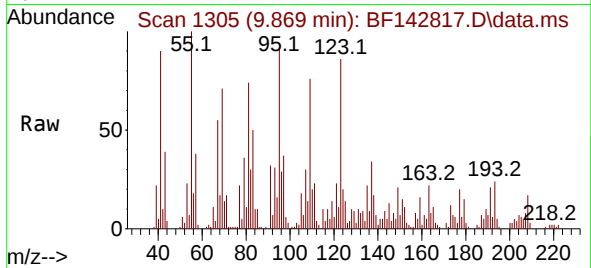




#53
3-Nitroaniline
Concen: 4.254 ng
RT: 9.869 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF142817.D
Acq: 24 Jun 2025 13:24

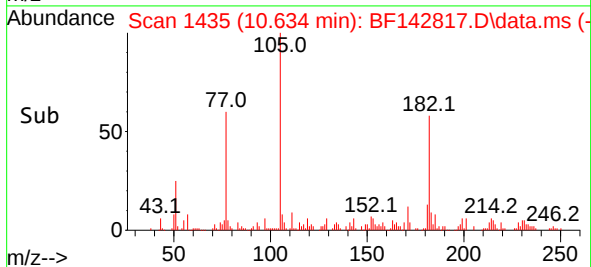
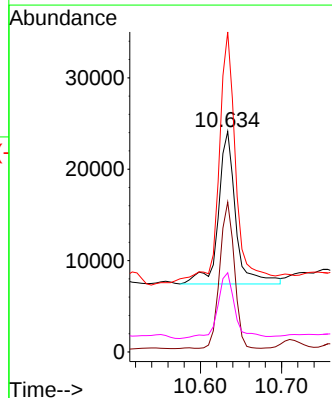
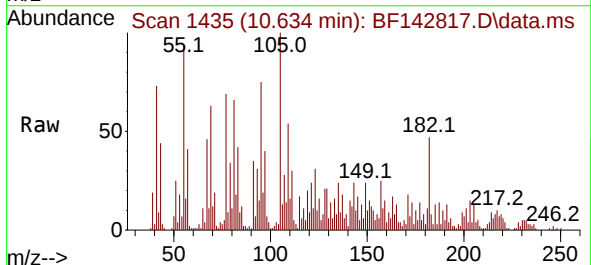
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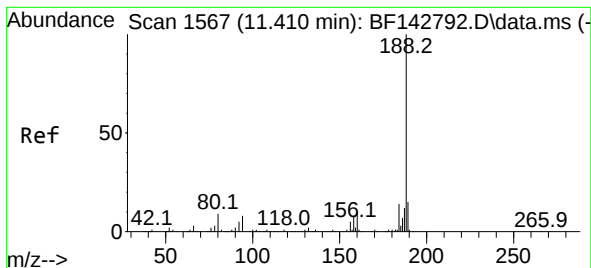
Tgt Ion:138 Resp: 6213
Ion Ratio Lower Upper
138 100
108 81.7 8.1 12.1#
92 41.4 85.1 127.7#



#63
Azobenzene
Concen: 4.715 ng
RT: 10.634 min Scan# 1435
Delta R.T. 0.012 min
Lab File: BF142817.D
Acq: 24 Jun 2025 13:24

Tgt Ion: 77 Resp: 24956
Ion Ratio Lower Upper
77 100
182 68.0 7.7 47.7#
105 145.1 1.9 41.9#
51 35.9 13.3 53.3





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.410 min Scan# 1567

Delta R.T. 0.000 min

Lab File: BF142817.D

Acq: 24 Jun 2025 13:24

Instrument :

BNA_F

ClientSampleId :

291431

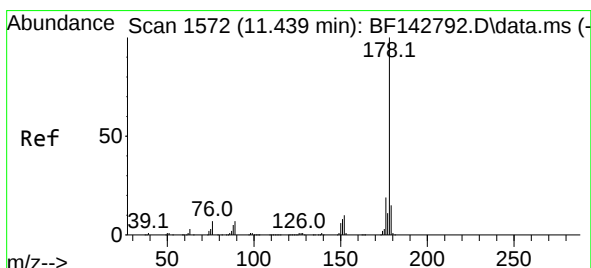
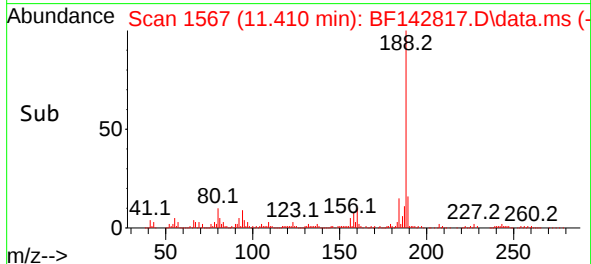
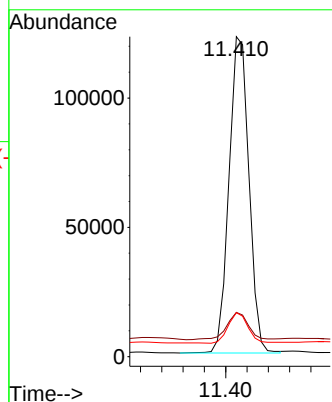
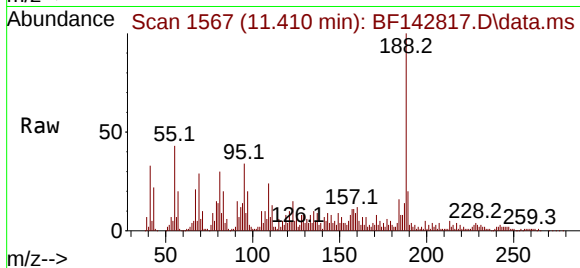
Tgt Ion:188 Resp: 158454

Ion Ratio Lower Upper

188 100

94 13.9 6.7 10.1#

80 13.7 6.9 10.3#



#71

Phenanthrene

Concen: 12.519 ng

RT: 11.439 min Scan# 1572

Delta R.T. 0.000 min

Lab File: BF142817.D

Acq: 24 Jun 2025 13:24

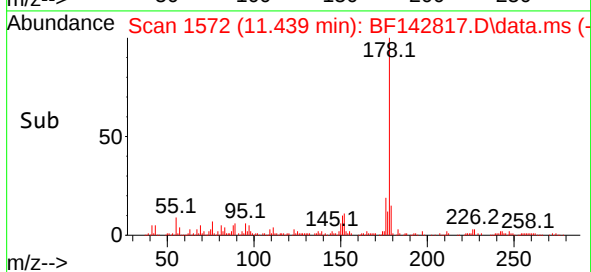
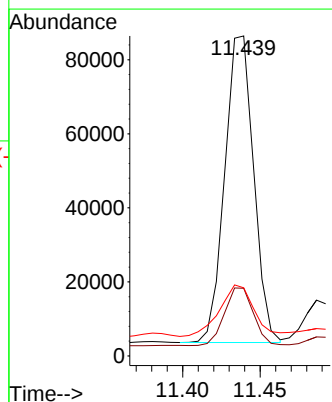
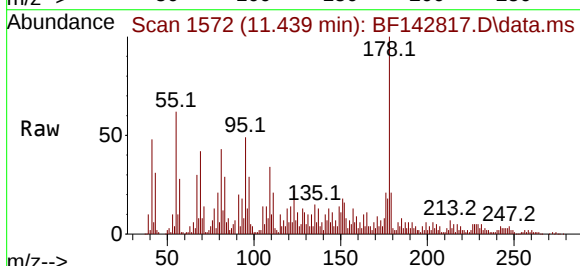
Tgt Ion:178 Resp: 107460

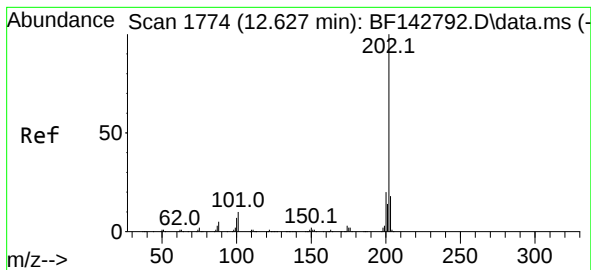
Ion Ratio Lower Upper

178 100

176 21.1 15.1 22.7

179 21.3 12.0 18.0#

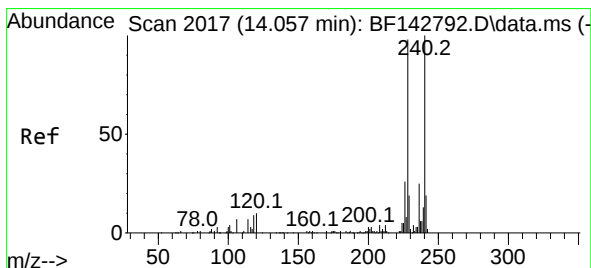
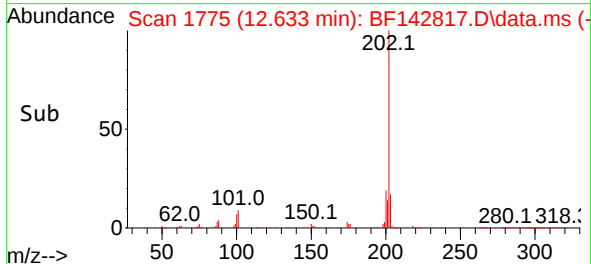
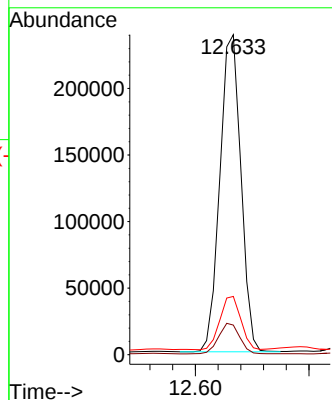
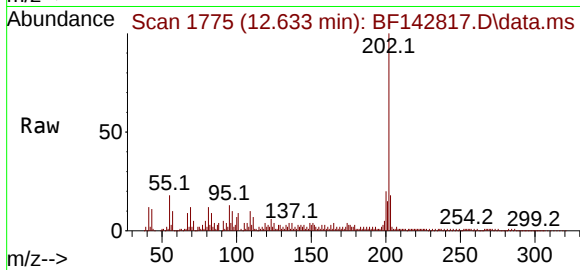




#75
 Fluoranthene
 Concen: 37.698 ng
 RT: 12.633 min Scan# 11
 Delta R.T. 0.006 min
 Lab File: BF142817.D
 Acq: 24 Jun 2025 13:24

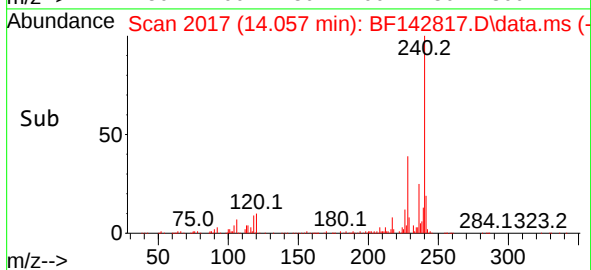
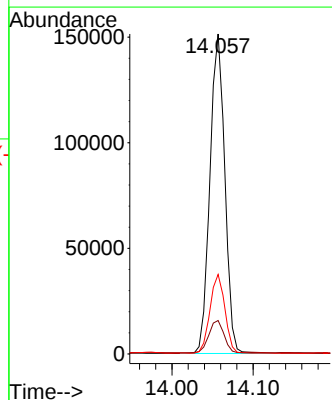
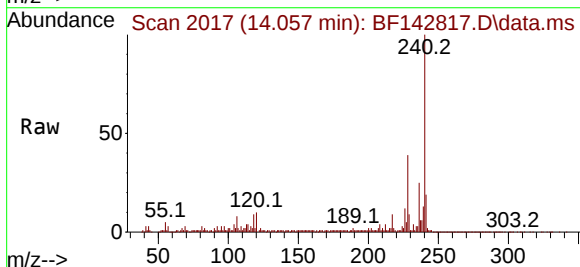
Instrument :
 BNA_F
 ClientSampleId :
 291431

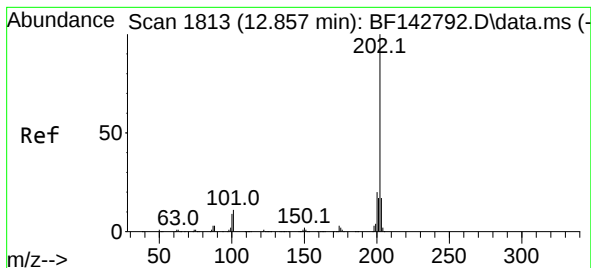
Tgt Ion:202 Resp: 307089
 Ion Ratio Lower Upper
 202 100
 101 9.3 0.0 29.7
 203 18.2 0.0 37.5



#76
 Chrysene-d12
 Concen: 20.000 ng
 RT: 14.057 min Scan# 2017
 Delta R.T. 0.000 min
 Lab File: BF142817.D
 Acq: 24 Jun 2025 13:24

Tgt Ion:240 Resp: 192763
 Ion Ratio Lower Upper
 240 100
 120 10.4 8.2 12.2
 236 24.8 19.8 29.8





#78

Pyrene

Concen: 15.707 ng

RT: 12.863 min Scan# 1813

Delta R.T. 0.006 min

Lab File: BF142817.D

Acq: 24 Jun 2025 13:24

Instrument :

BNA_F

ClientSampleId :

291431

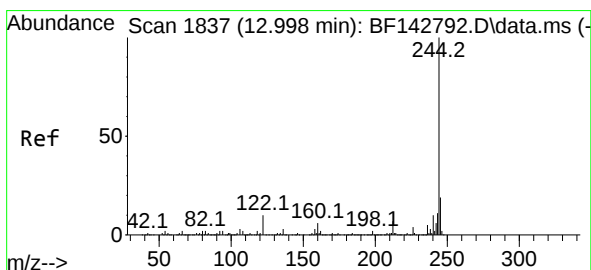
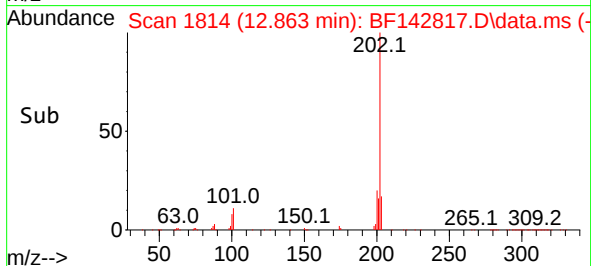
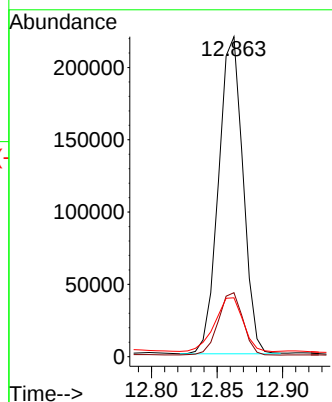
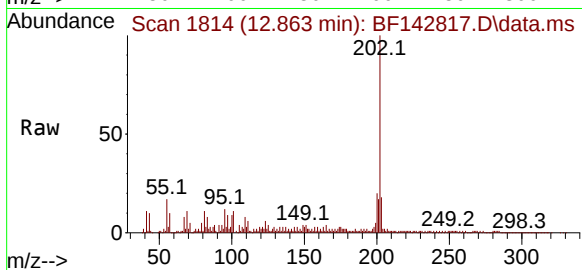
Tgt Ion:202 Resp: 283799

Ion Ratio Lower Upper

202 100

200 20.0 15.7 23.5

203 18.4 13.8 20.6



#79

Terphenyl-d14

Concen: 26.262 ng

RT: 12.998 min Scan# 1837

Delta R.T. 0.000 min

Lab File: BF142817.D

Acq: 24 Jun 2025 13:24

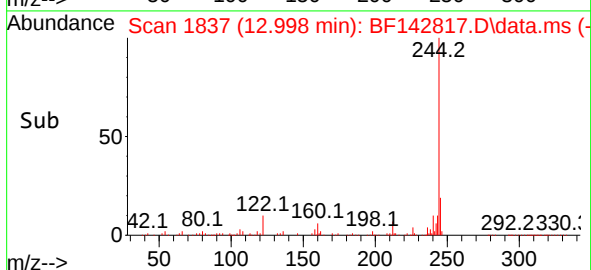
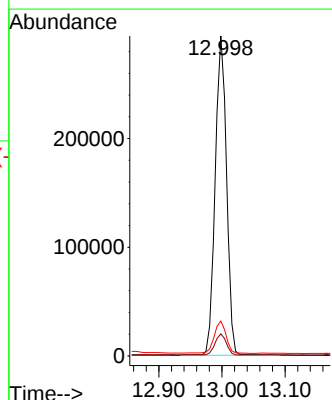
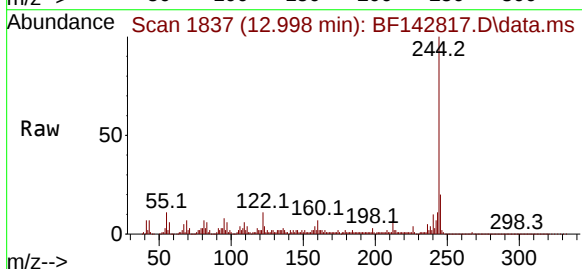
Tgt Ion:244 Resp: 366386

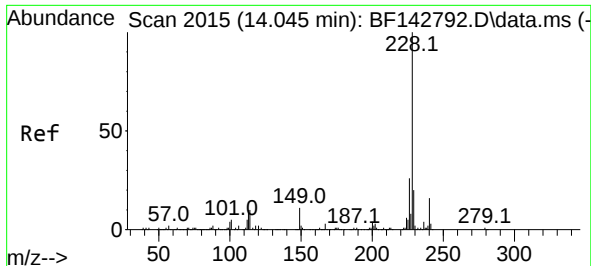
Ion Ratio Lower Upper

244 100

212 6.9 5.4 8.0

122 10.9 8.2 12.2

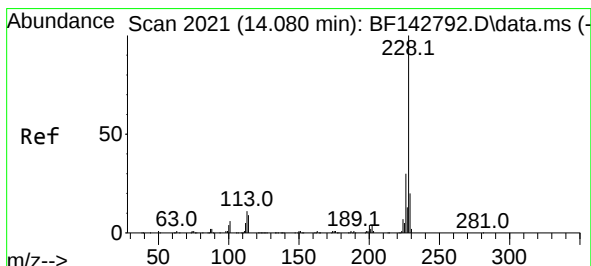
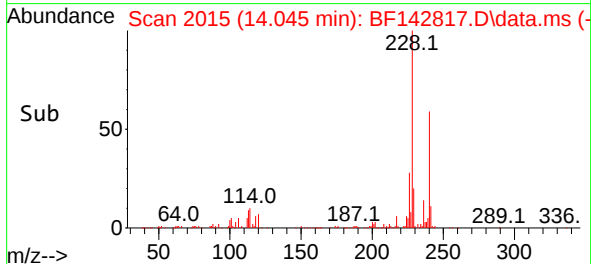
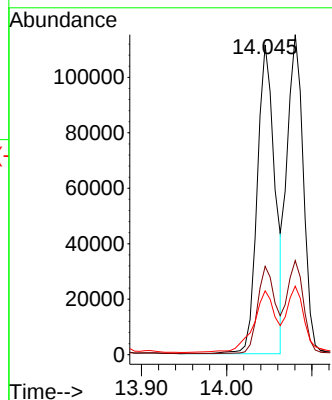
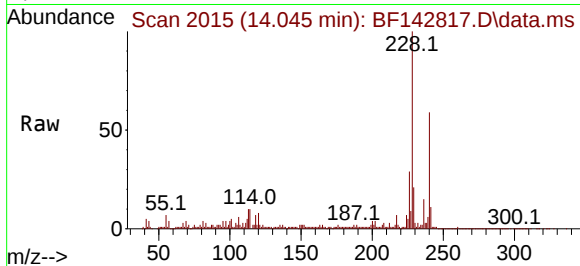




#81
Benzo(a)anthracene
Concen: 12.345 ng
RT: 14.045 min Scan# 2015
Delta R.T. 0.000 min
Lab File: BF142817.D
Acq: 24 Jun 2025 13:24

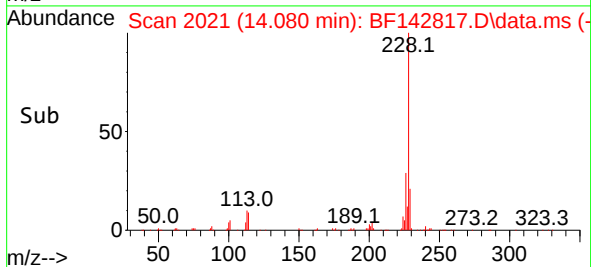
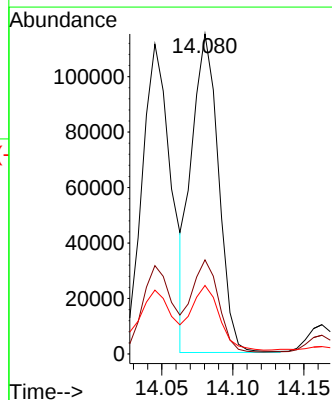
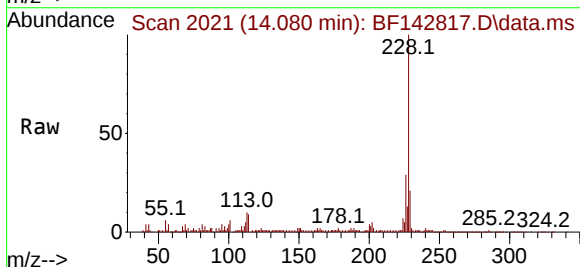
Instrument :
BNA_F
ClientSampleId :
291431

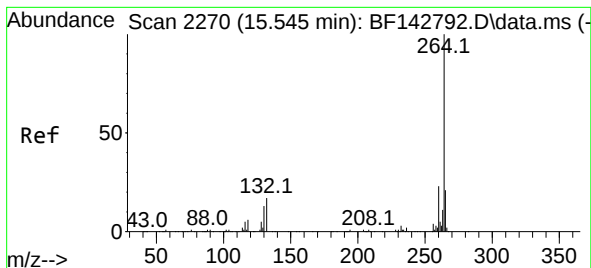
Tgt Ion:228 Resp: 160539
Ion Ratio Lower Upper
228 100
226 28.5 21.2 31.8
229 20.6 15.6 23.4



#83
Chrysene
Concen: 13.052 ng
RT: 14.080 min Scan# 2021
Delta R.T. 0.000 min
Lab File: BF142817.D
Acq: 24 Jun 2025 13:24

Tgt Ion:228 Resp: 151449
Ion Ratio Lower Upper
228 100
226 29.4 23.7 35.5
229 21.4 15.7 23.5





#86

Perylene-d12

Concen: 20.000 ng

RT: 15.545 min Scan# 21

Delta R.T. 0.000 min

Lab File: BF142817.D

Acq: 24 Jun 2025 13:24

Instrument :

BNA_F

ClientSampleId :

291431

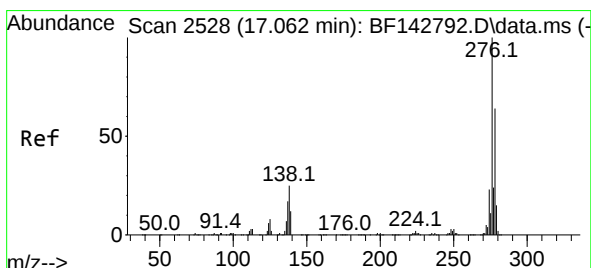
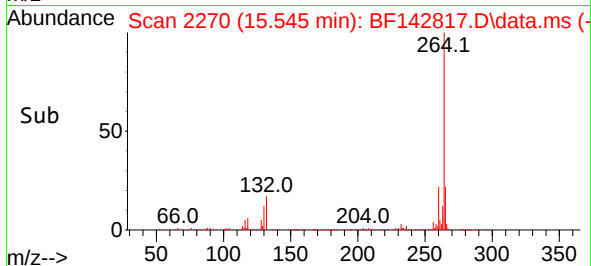
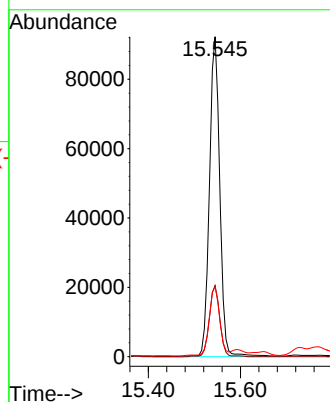
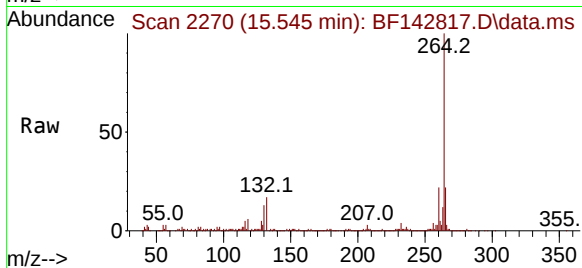
Tgt Ion:264 Resp: 144808

Ion Ratio Lower Upper

264 100

260 22.3 18.1 27.1

265 21.9 16.6 25.0



#87

Indeno(1,2,3-cd)pyrene

Concen: 5.441 ng

RT: 17.045 min Scan# 2525

Delta R.T. -0.017 min

Lab File: BF142817.D

Acq: 24 Jun 2025 13:24

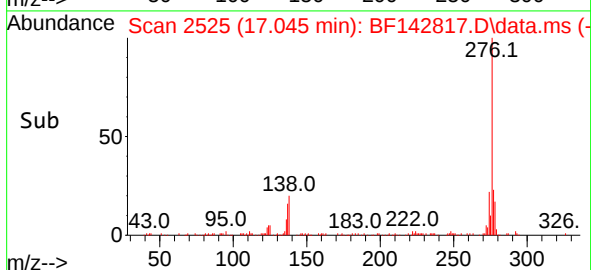
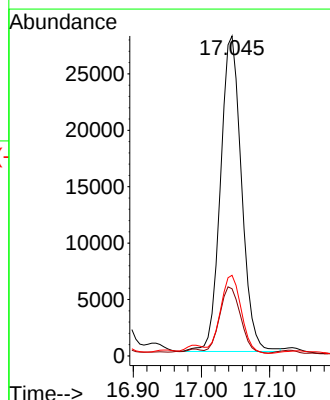
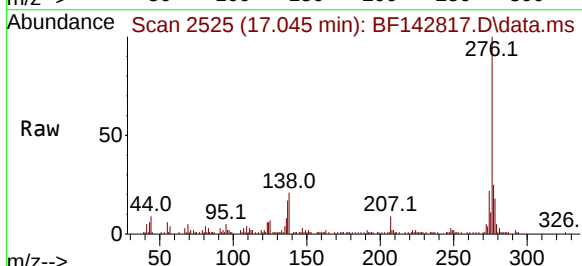
Tgt Ion:276 Resp: 60010

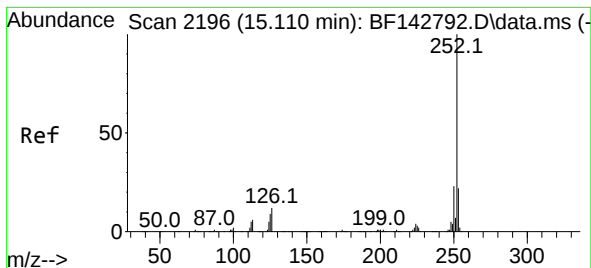
Ion Ratio Lower Upper

276 100

138 20.8 20.2 30.4

277 24.6 19.8 29.6





#88

Benzo(b)fluoranthene

Concen: 28.578 ng

RT: 15.110 min Scan# 2196

Delta R.T. 0.000 min

Lab File: BF142817.D

Acq: 24 Jun 2025 13:24

Instrument :

BNA_F

ClientSampleId :

291431

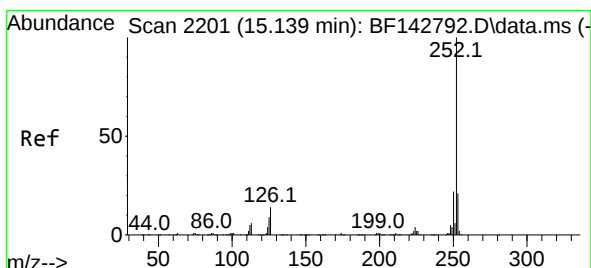
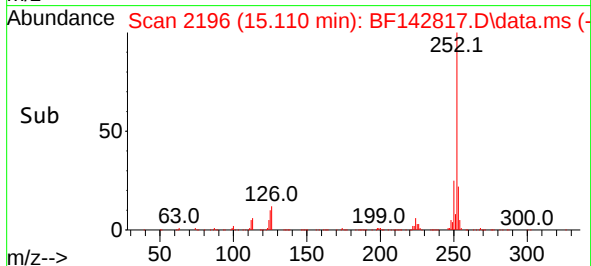
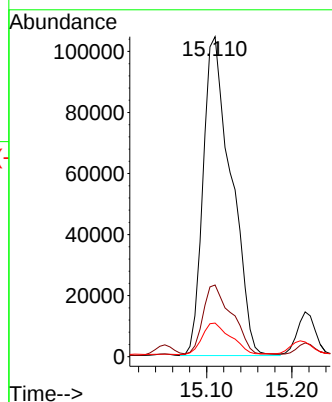
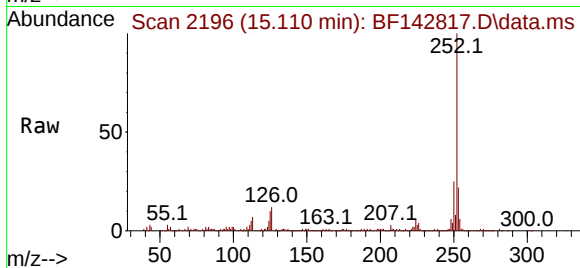
Tgt Ion:252 Resp: 239462

Ion Ratio Lower Upper

252 100

253 22.4 17.5 26.3

125 10.5 7.4 11.0



#89

Benzo(k)fluoranthene

Concen: 30.546 ng

RT: 15.110 min Scan# 2196

Delta R.T. -0.029 min

Lab File: BF142817.D

Acq: 24 Jun 2025 13:24

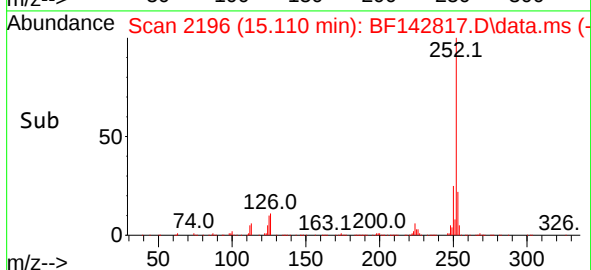
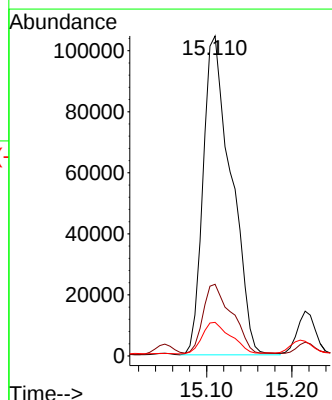
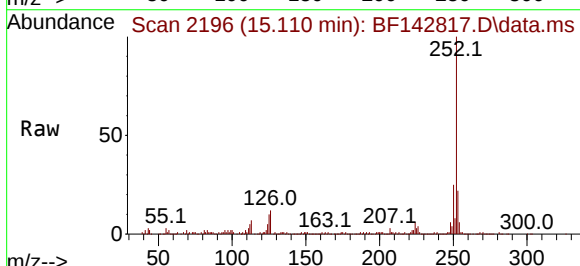
Tgt Ion:252 Resp: 239462

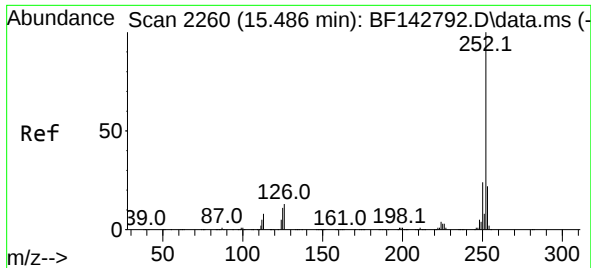
Ion Ratio Lower Upper

252 100

253 22.4 17.2 25.8

125 10.5 7.4 11.2

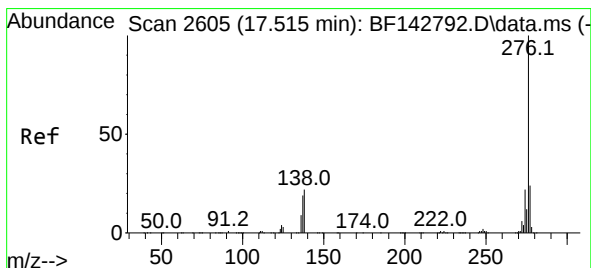
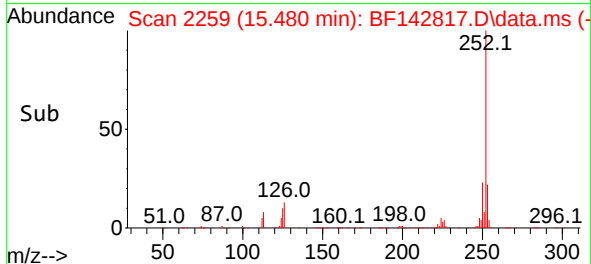
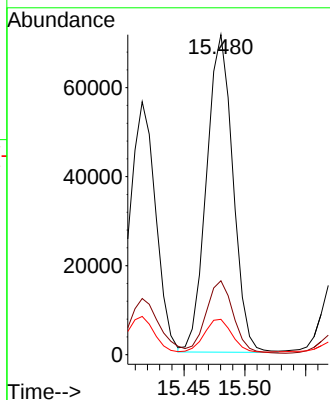
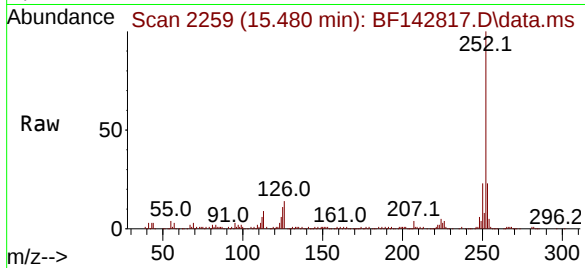




#90
Benzo(a)pyrene
Concen: 13.304 ng
RT: 15.480 min Scan# 21
Delta R.T. -0.006 min
Lab File: BF142817.D
Acq: 24 Jun 2025 13:24

Instrument :
BNA_F
ClientSampleId :
291431

Tgt Ion:252 Resp: 107695
Ion Ratio Lower Upper
252 100
253 23.1 17.5 26.3
125 11.1 8.6 12.8



#92
Benzo(g,h,i)perylene
Concen: 6.647 ng
RT: 17.498 min Scan# 2602
Delta R.T. -0.017 min
Lab File: BF142817.D
Acq: 24 Jun 2025 13:24

Tgt Ion:276 Resp: 59400
Ion Ratio Lower Upper
276 100
277 23.8 18.8 28.2
138 23.6 17.6 26.4

