

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF062425\
 Data File : BF142818.D
 Acq On : 24 Jun 2025 13:54
 Operator : RC/JU
 Sample : Q2381-05
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 72-11929

Quant Time: Jun 24 14:30:22 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)

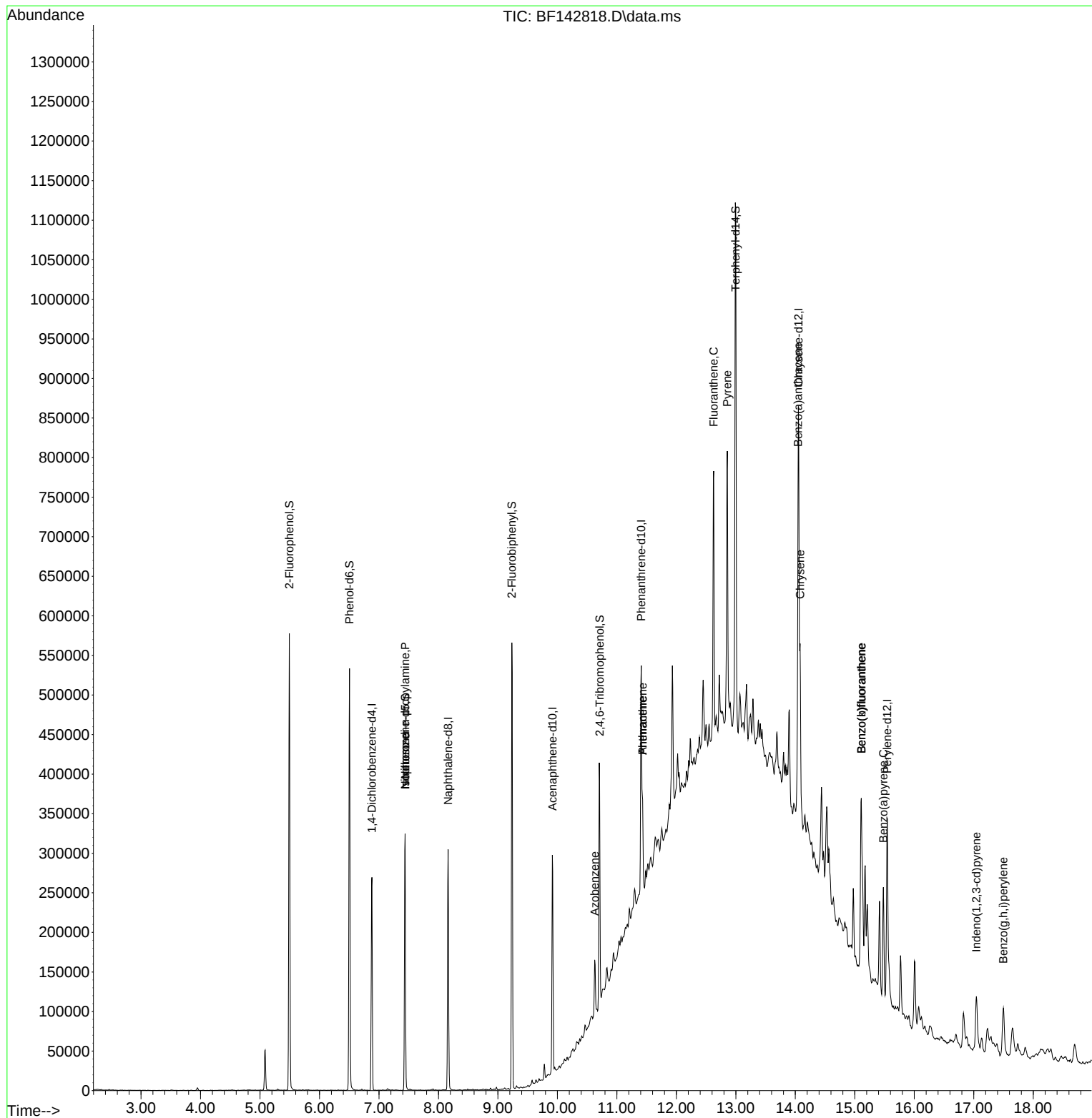
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.881	152	60138	20.000	ng	0.00
21) Naphthalene-d8	8.163	136	192448	20.000	ng	0.00
39) Acenaphthene-d10	9.916	164	82644	20.000	ng	0.00
64) Phenanthrene-d10	11.410	188	148935	20.000	ng	0.00
76) Chrysene-d12	14.057	240	184472	20.000	ng	0.00
86) Perylene-d12	15.545	264	131931	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.493	112	215509	59.664	ng	0.00
7) Phenol-d6	6.504	99	235863	55.347	ng	0.00
23) Nitrobenzene-d5	7.439	82	134835	38.430	ng	0.00
42) 2,4,6-Tribromophenol	10.710	330	51634	60.713	ng	0.00
45) 2-Fluorobiphenyl	9.233	172	248414	39.487	ng	-0.01
79) Terphenyl-d14	12.998	244	337490	25.278	ng	0.00
Target Compounds						Qvalue
19) n-Nitroso-di-n-propyla...	7.439	70	18080	7.295	ng	# 75
25) Isophorone	7.439	82	133484	23.717	ng	# 62
63) Azobenzene	10.628	77	15714	3.352	ng	# 1
71) Phenanthrene	11.433	178	63010	7.810	ng	98
72) Anthracene	11.433	178	63010	7.615	ng	98
75) Fluoranthene	12.627	202	202414	26.436	ng	98
78) Pyrene	12.857	202	214856	12.426	ng	99
81) Benzo(a)anthracene	14.045	228	131510	10.568	ng	95
83) Chrysene	14.080	228	122153	11.000	ng	98
87) Indeno(1,2,3-cd)pyrene	17.045	276	46460	4.623	ng	96
88) Benzo(b)fluoranthene	15.110	252	185177	24.257	ng	# 97
89) Benzo(k)fluoranthene	15.110	252	185177	25.927	ng	# 96
90) Benzo(a)pyrene	15.480	252	83901	11.376	ng	98
92) Benzo(g,h,i)perylene	17.498	276	48630	5.973	ng	98

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

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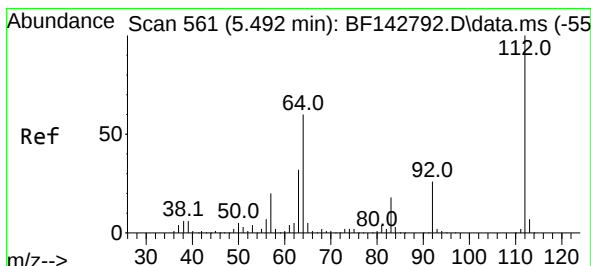
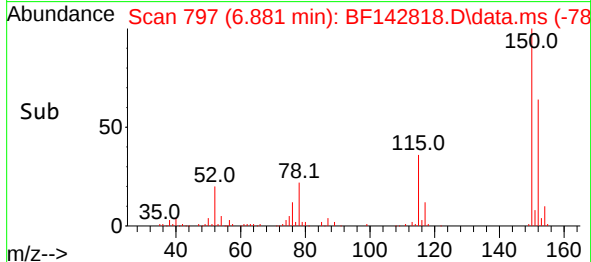
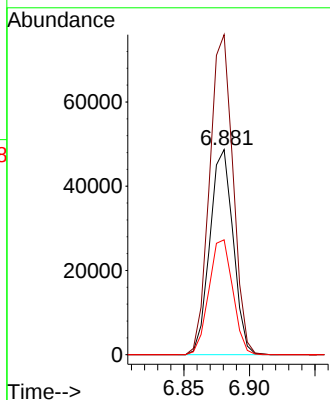
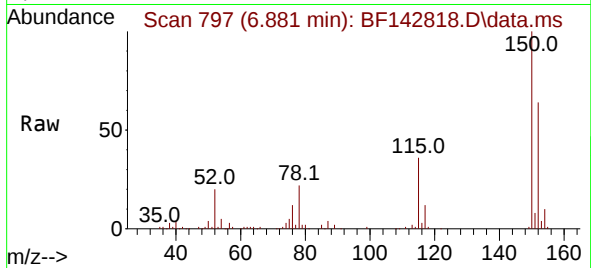




#1
 1,4-Dichlorobenzene-d4
 Concen: 20.000 ng
 RT: 6.881 min Scan# 797
 Delta R.T. -0.000 min
 Lab File: BF142818.D
 Acq: 24 Jun 2025 13:54

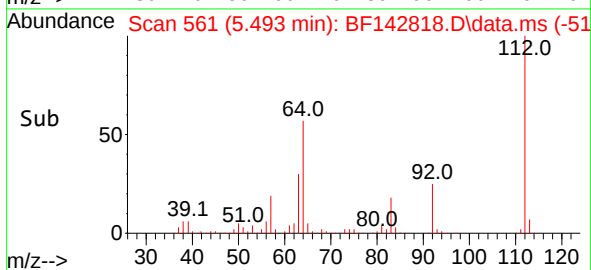
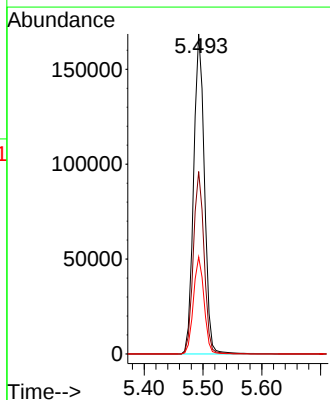
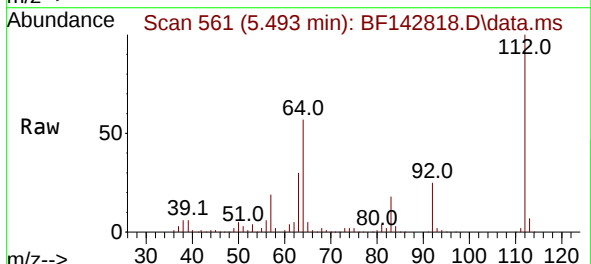
Instrument :
 BNA_F
 ClientSampleId :
 72-11929

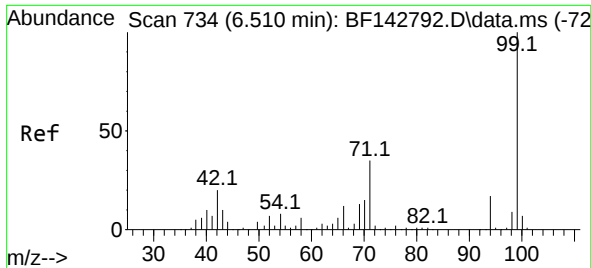
Tgt Ion:152 Resp: 60138
 Ion Ratio Lower Upper
 152 100
 150 156.0 127.2 190.8
 115 56.0 46.6 69.8



#5
 2-Fluorophenol
 Concen: 59.664 ng
 RT: 5.493 min Scan# 561
 Delta R.T. 0.001 min
 Lab File: BF142818.D
 Acq: 24 Jun 2025 13:54

Tgt Ion:112 Resp: 215509
 Ion Ratio Lower Upper
 112 100
 64 57.0 48.2 72.2
 63 30.3 25.7 38.5

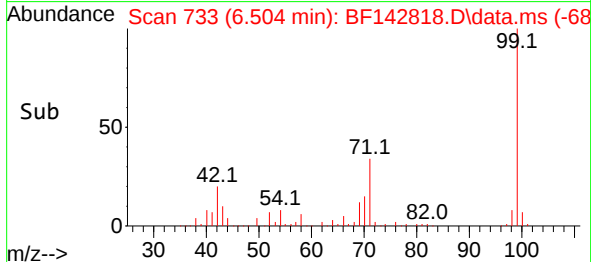
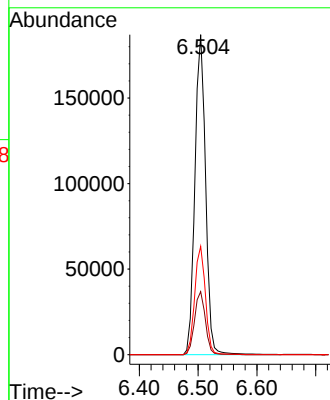
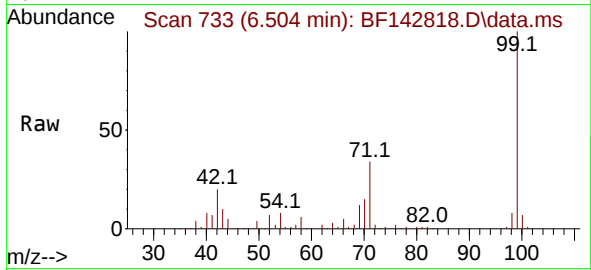




#7
Phenol-d6
Concen: 55.347 ng
RT: 6.504 min Scan# 71
Delta R.T. -0.006 min
Lab File: BF142818.D
Acq: 24 Jun 2025 13:54

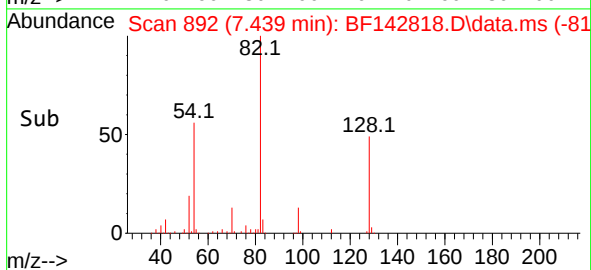
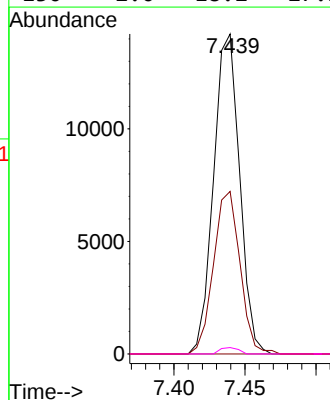
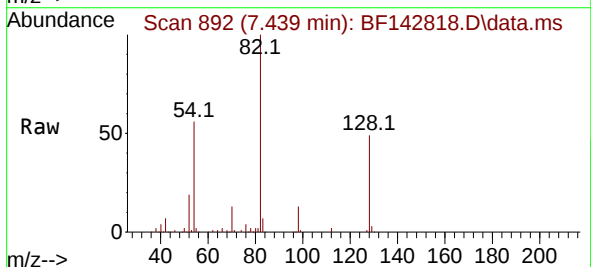
Instrument :
BNA_F
ClientSampleId :
72-11929

Tgt Ion: 99 Resp: 235863
Ion Ratio Lower Upper
99 100
42 19.7 15.9 23.9
71 33.9 27.8 41.8



#19
n-Nitroso-di-n-propylamine
Concen: 7.295 ng
RT: 7.439 min Scan# 892
Delta R.T. 0.147 min
Lab File: BF142818.D
Acq: 24 Jun 2025 13:54

Tgt Ion: 70 Resp: 18080
Ion Ratio Lower Upper
70 100
42 50.8 52.1 78.1#
101 0.0 8.2 12.2#
130 2.0 18.2 27.2#

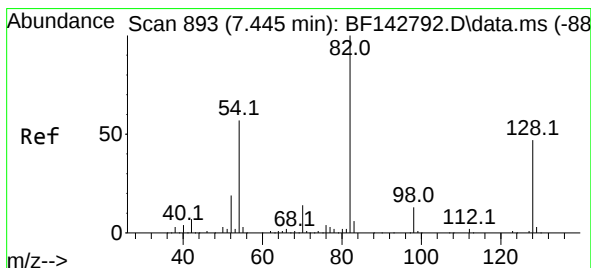
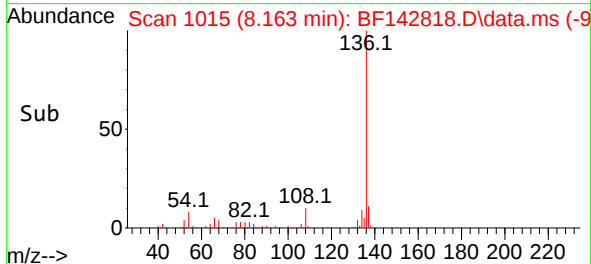
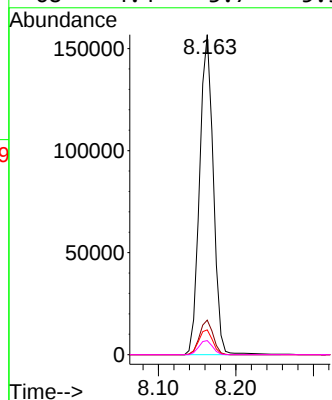
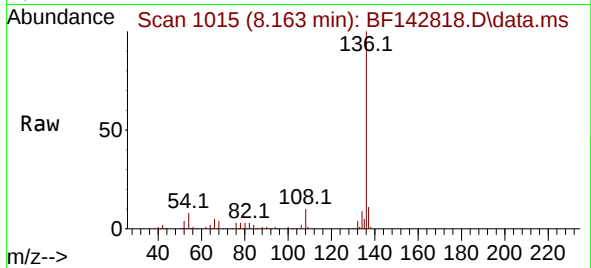




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.163 min Scan# 1016
Delta R.T. -0.006 min
Lab File: BF142818.D
Acq: 24 Jun 2025 13:54

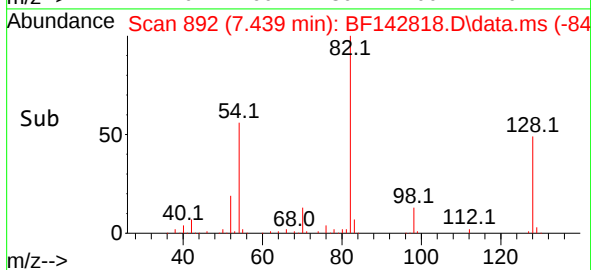
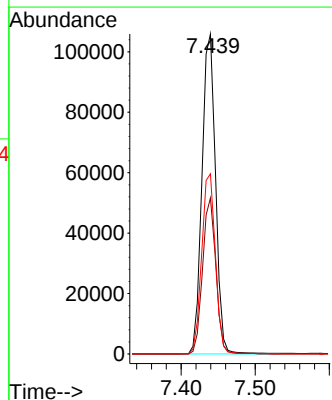
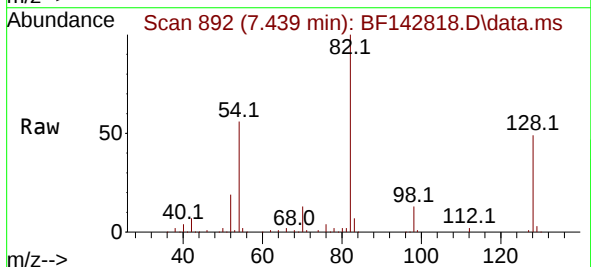
Instrument :
BNA_F
ClientSampleId :
72-11929

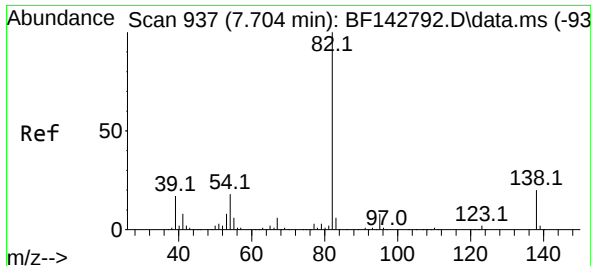
Tgt Ion:136 Resp: 192448
Ion Ratio Lower Upper
136 100
137 10.8 8.4 12.6
54 7.8 6.3 9.5
68 4.4 3.7 5.5



#23
Nitrobenzene-d5
Concen: 38.430 ng
RT: 7.439 min Scan# 892
Delta R.T. -0.006 min
Lab File: BF142818.D
Acq: 24 Jun 2025 13:54

Tgt Ion: 82 Resp: 134835
Ion Ratio Lower Upper
82 100
128 48.8 37.7 56.5
54 56.3 45.7 68.5

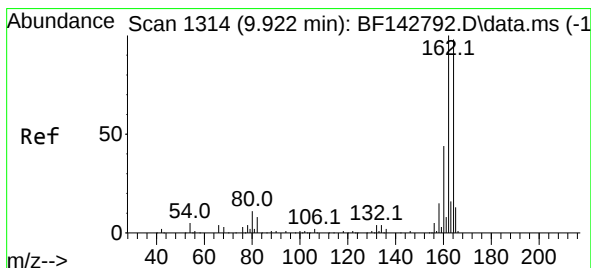
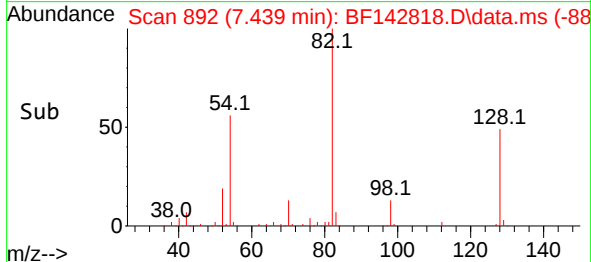
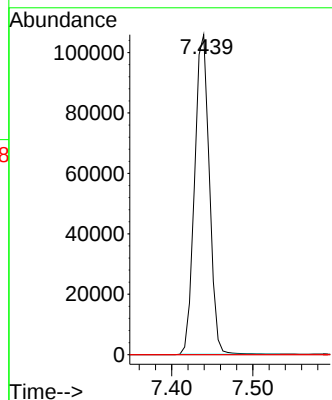
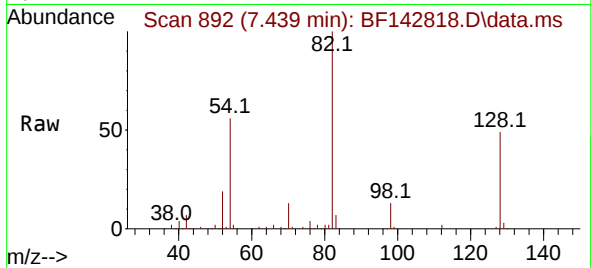




#25
Isophorone
Concen: 23.717 ng
RT: 7.439 min Scan# 89
Delta R.T. -0.265 min
Lab File: BF142818.D
Acq: 24 Jun 2025 13:54

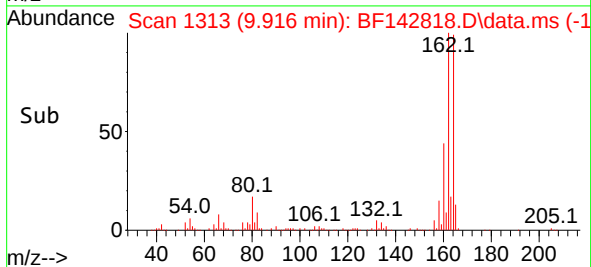
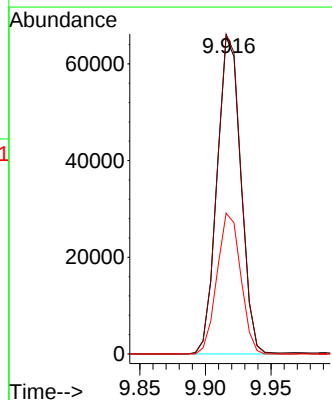
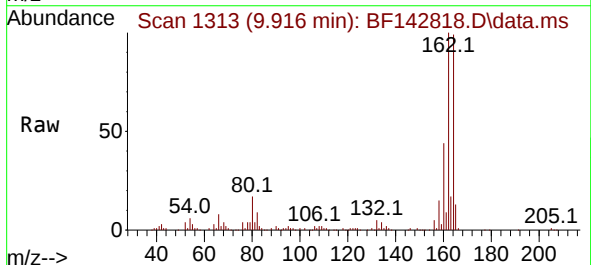
Instrument :
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ClientSampleId :
72-11929

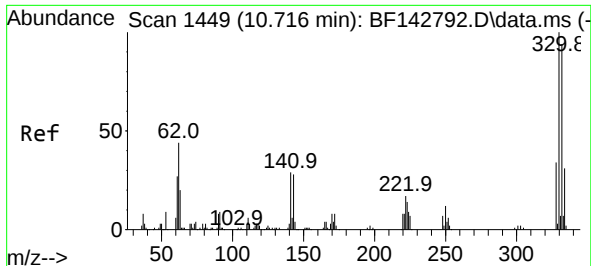
Tgt Ion: 82 Resp: 133484
Ion Ratio Lower Upper
82 100
95 0.0 6.2 9.2#
138 0.0 16.2 24.4#



#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.916 min Scan# 1313
Delta R.T. -0.006 min
Lab File: BF142818.D
Acq: 24 Jun 2025 13:54

Tgt Ion:164 Resp: 82644
Ion Ratio Lower Upper
164 100
162 100.9 81.8 122.8
160 44.4 36.0 54.0





#42

2,4,6-Tribromophenol

Concen: 60.713 ng

RT: 10.710 min Scan# 1449

Delta R.T. -0.006 min

Lab File: BF142818.D

Acq: 24 Jun 2025 13:54

Instrument :

BNA_F

ClientSampleId :

72-11929

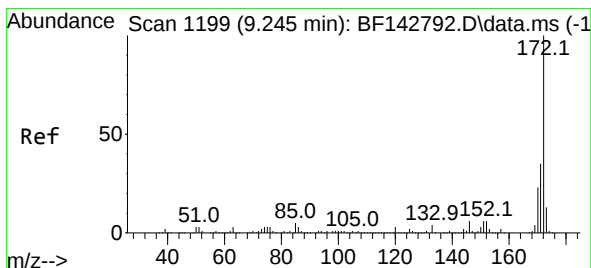
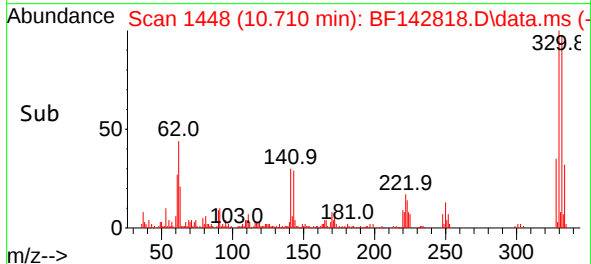
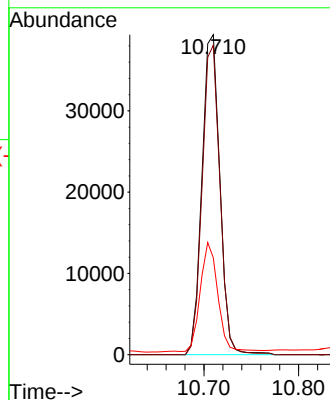
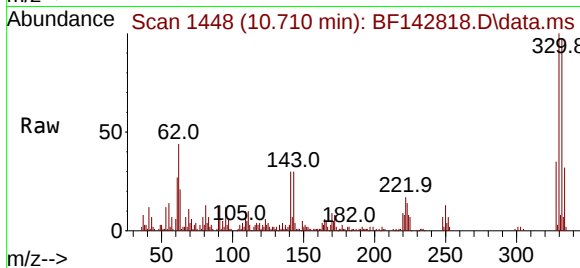
Tgt Ion:330 Resp: 51634

Ion Ratio Lower Upper

330 100

332 96.0 75.0 112.6

141 34.1 25.3 37.9



#45

2-Fluorobiphenyl

Concen: 39.487 ng

RT: 9.233 min Scan# 1197

Delta R.T. -0.012 min

Lab File: BF142818.D

Acq: 24 Jun 2025 13:54

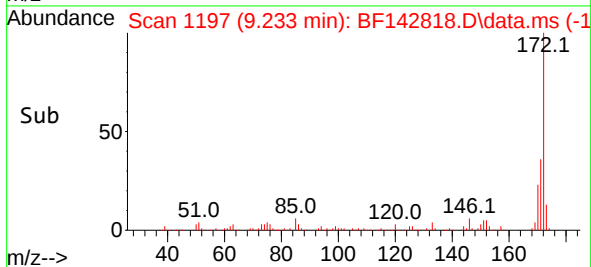
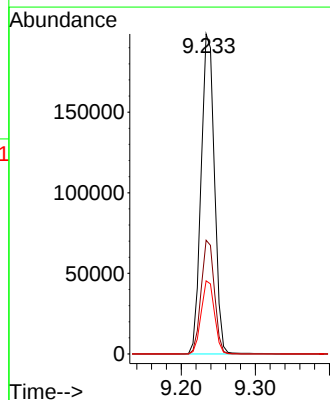
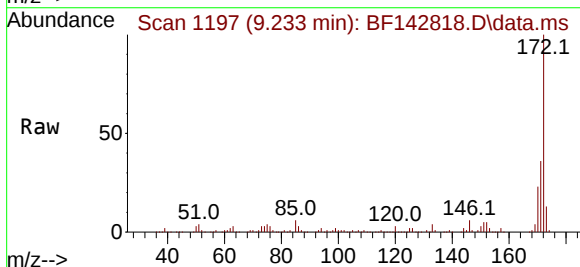
Tgt Ion:172 Resp: 248414

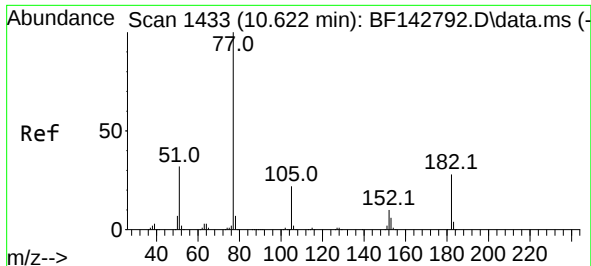
Ion Ratio Lower Upper

172 100

171 35.6 28.2 42.4

170 22.9 18.5 27.7

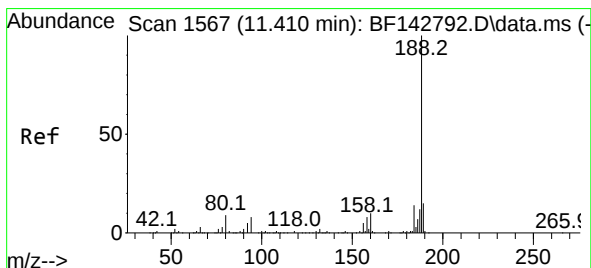
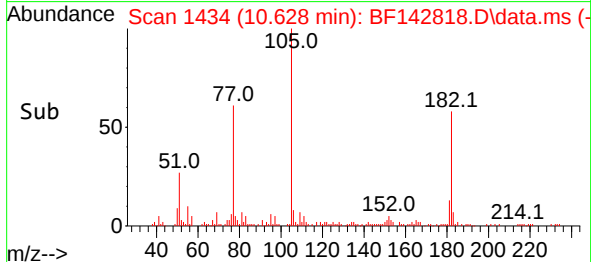
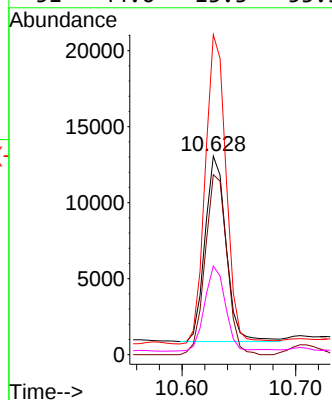
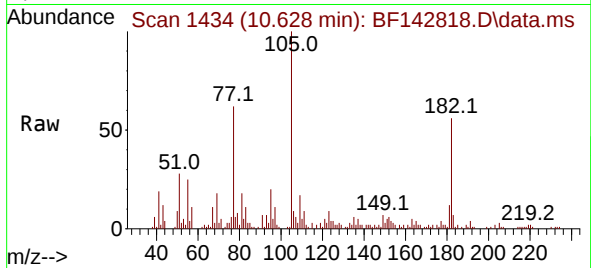




#63
Azobenzene
Concen: 3.352 ng
RT: 10.628 min Scan# 1433
Delta R.T. 0.006 min
Lab File: BF142818.D
Acq: 24 Jun 2025 13:54

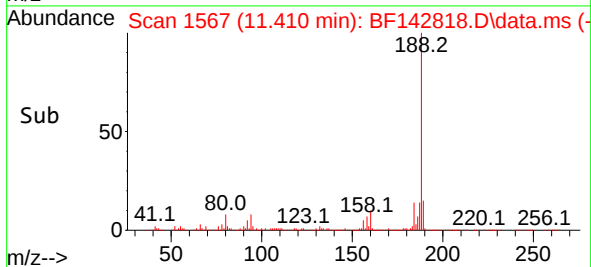
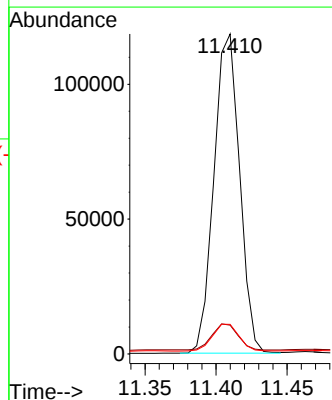
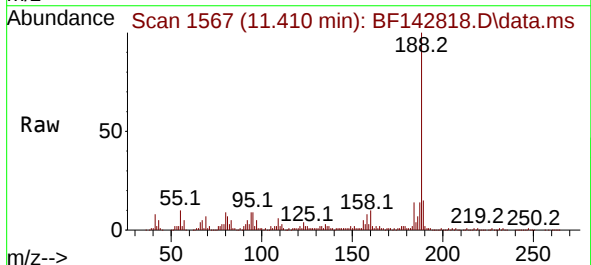
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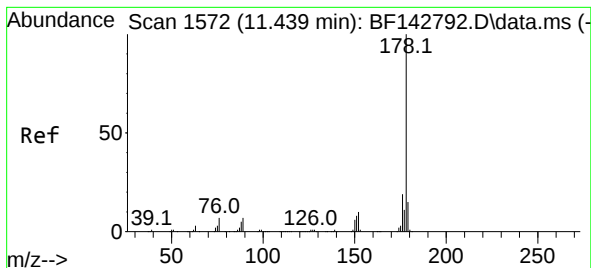
Tgt Ion: 77 Resp: 15714
Ion Ratio Lower Upper
77 100
182 90.7 7.7 47.7#
105 161.2 1.9 41.9#
51 44.6 13.3 53.3



#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.410 min Scan# 1567
Delta R.T. 0.000 min
Lab File: BF142818.D
Acq: 24 Jun 2025 13:54

Tgt Ion: 188 Resp: 148935
Ion Ratio Lower Upper
188 100
94 9.0 6.7 10.1
80 9.2 6.9 10.3





#71

Phenanthrene

Concen: 7.810 ng

RT: 11.433 min Scan# 1571

Delta R.T. -0.006 min

Lab File: BF142818.D

Acq: 24 Jun 2025 13:54

Instrument :

BNA_F

ClientSampleId :

72-11929

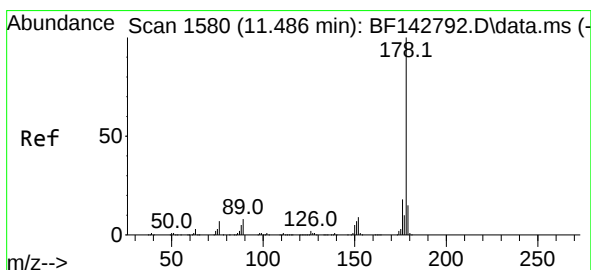
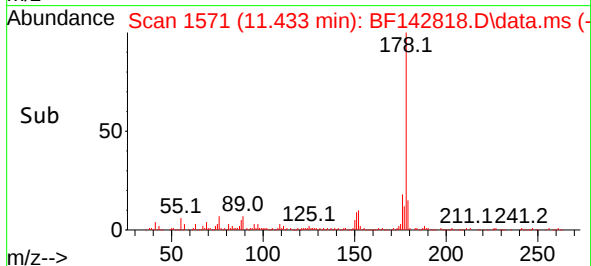
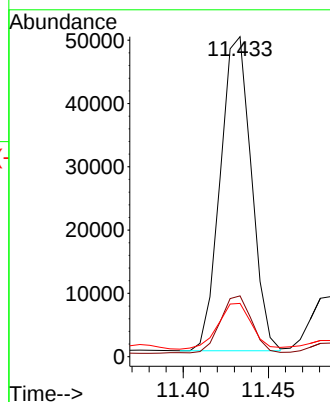
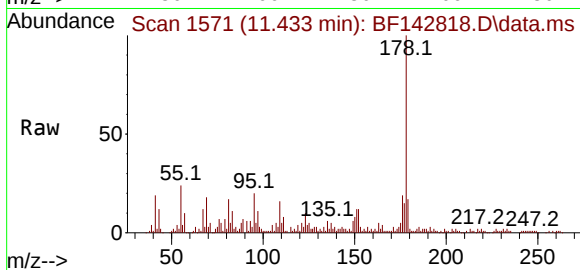
Tgt Ion:178 Resp: 63010

Ion Ratio Lower Upper

178 100

176 19.0 15.1 22.7

179 16.6 12.0 18.0



#72

Anthracene

Concen: 7.615 ng

RT: 11.433 min Scan# 1571

Delta R.T. -0.053 min

Lab File: BF142818.D

Acq: 24 Jun 2025 13:54

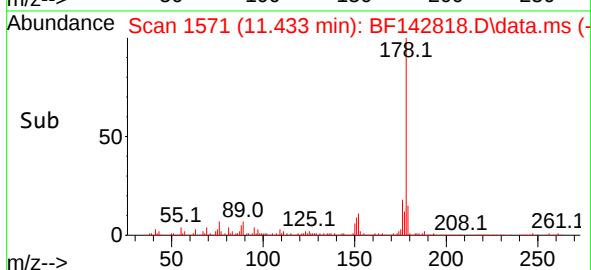
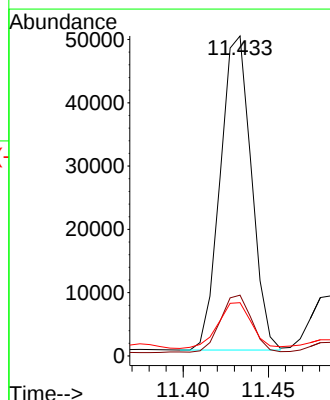
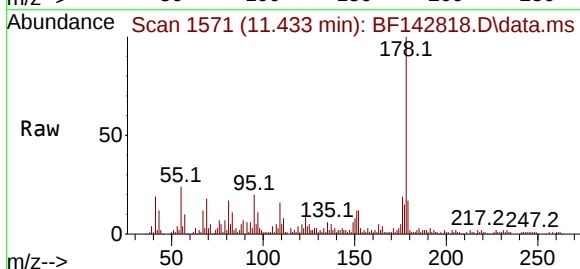
Tgt Ion:178 Resp: 63010

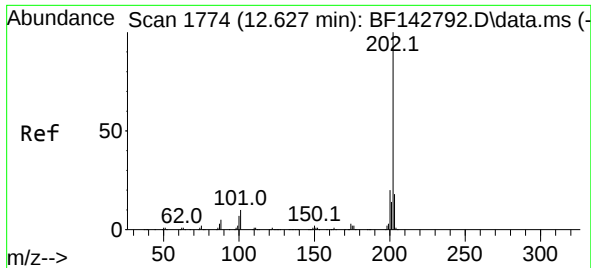
Ion Ratio Lower Upper

178 100

176 19.0 14.6 21.8

179 16.6 12.4 18.6

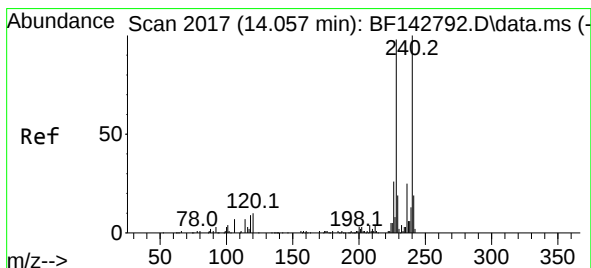
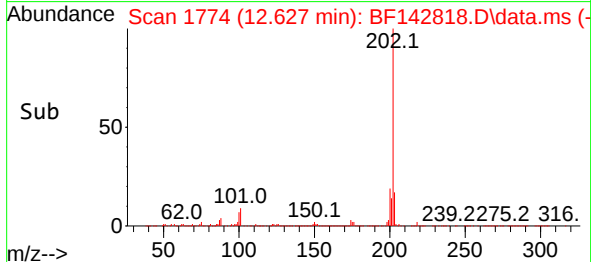
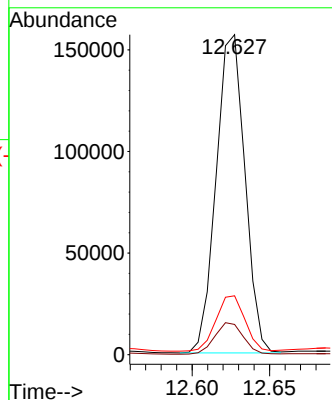
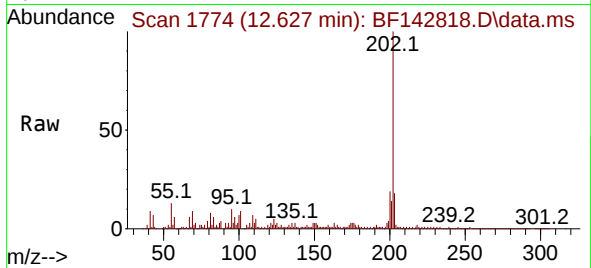




#75
Fluoranthene
Concen: 26.436 ng
RT: 12.627 min Scan# 1774
Delta R.T. 0.000 min
Lab File: BF142818.D
Acq: 24 Jun 2025 13:54

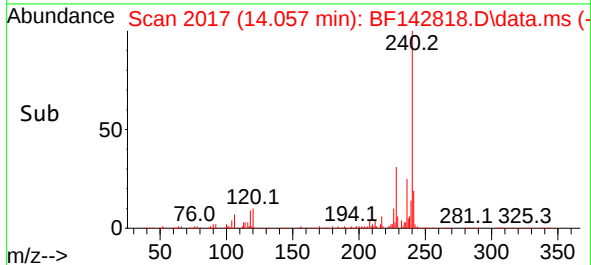
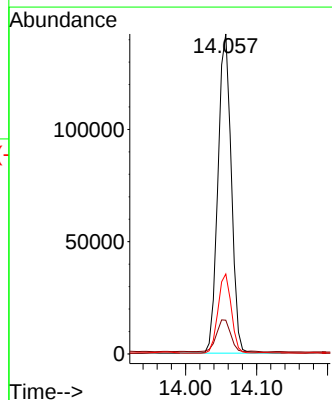
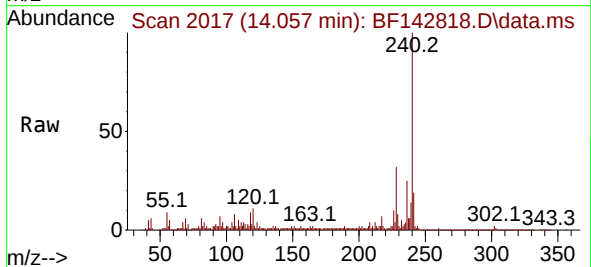
Instrument :
BNA_F
ClientSampleId :
72-11929

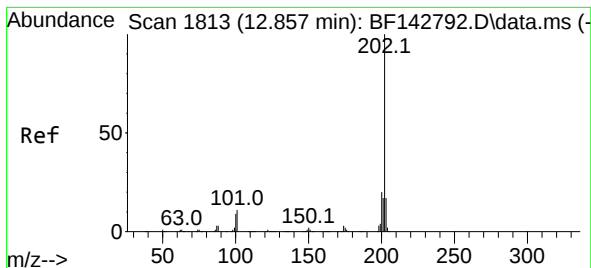
Tgt Ion:202 Resp: 202414
Ion Ratio Lower Upper
202 100
101 9.5 0.0 29.7
203 18.4 0.0 37.5



#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.057 min Scan# 2017
Delta R.T. 0.000 min
Lab File: BF142818.D
Acq: 24 Jun 2025 13:54

Tgt Ion:240 Resp: 184472
Ion Ratio Lower Upper
240 100
120 10.5 8.2 12.2
236 25.0 19.8 29.8





#78

Pyrene

Concen: 12.426 ng

RT: 12.857 min Scan# 1813

Delta R.T. 0.000 min

Lab File: BF142818.D

Acq: 24 Jun 2025 13:54

Instrument :

BNA_F

ClientSampleId :

72-11929

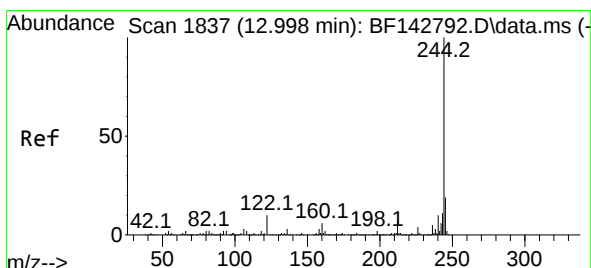
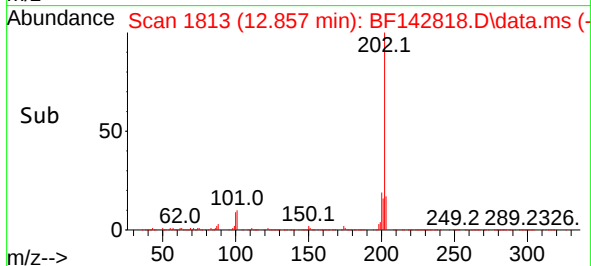
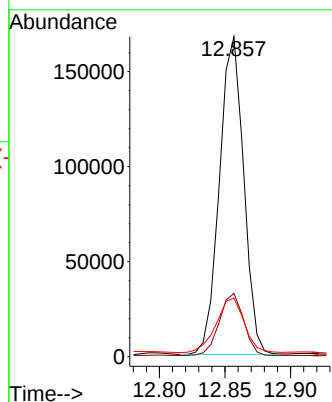
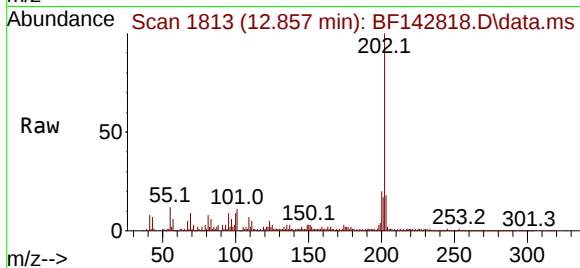
Tgt Ion:202 Resp: 214856

Ion Ratio Lower Upper

202 100

200 19.7 15.7 23.5

203 18.3 13.8 20.6



#79

Terphenyl-d14

Concen: 25.278 ng

RT: 12.998 min Scan# 1837

Delta R.T. -0.000 min

Lab File: BF142818.D

Acq: 24 Jun 2025 13:54

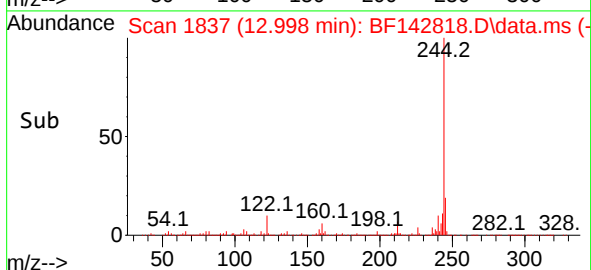
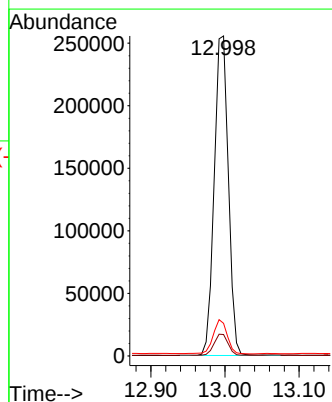
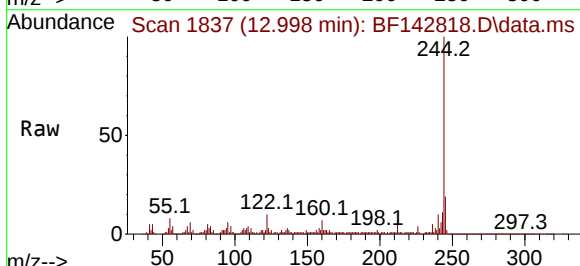
Tgt Ion:244 Resp: 337490

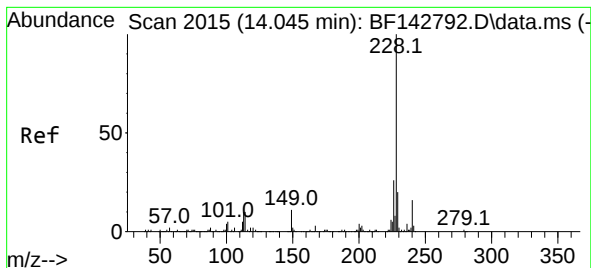
Ion Ratio Lower Upper

244 100

212 6.7 5.4 8.0

122 10.2 8.2 12.2





#81

Benzo(a)anthracene

Concen: 10.568 ng

RT: 14.045 min Scan# 2015

Delta R.T. 0.000 min

Lab File: BF142818.D

Acq: 24 Jun 2025 13:54

Instrument :

BNA_F

ClientSampleId :

72-11929

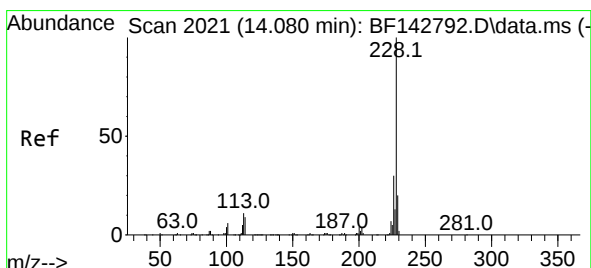
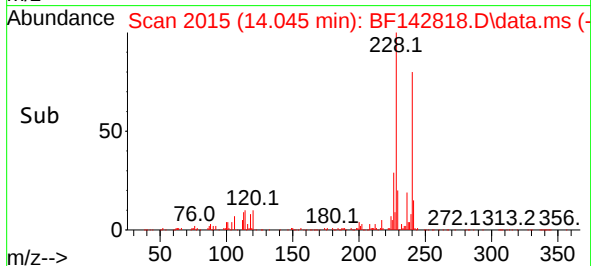
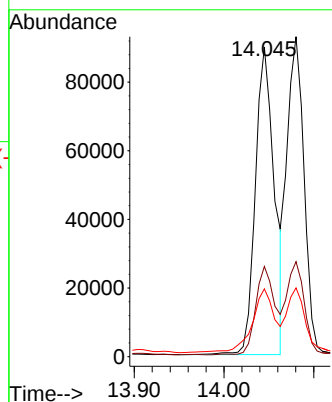
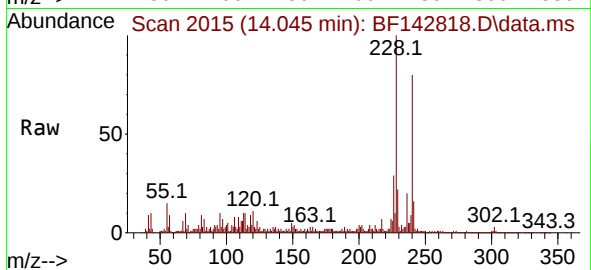
Tgt Ion:228 Resp: 131510

Ion Ratio Lower Upper

228 100

226 29.2 21.2 31.8

229 21.9 15.6 23.4



#83

Chrysene

Concen: 11.000 ng

RT: 14.080 min Scan# 2021

Delta R.T. 0.000 min

Lab File: BF142818.D

Acq: 24 Jun 2025 13:54

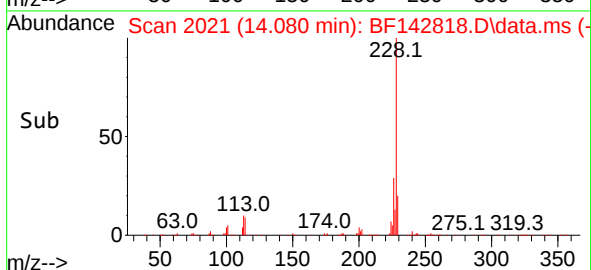
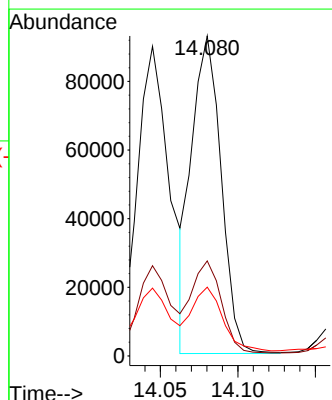
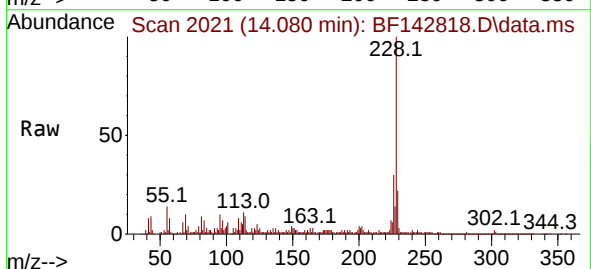
Tgt Ion:228 Resp: 122153

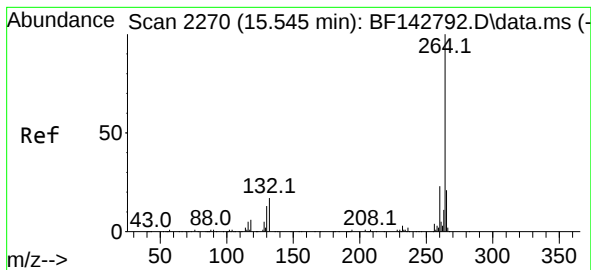
Ion Ratio Lower Upper

228 100

226 29.7 23.7 35.5

229 21.5 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: BF142818.D

Acq: 24 Jun 2025 13:54

Instrument :

BNA_F

ClientSampleId :

72-11929

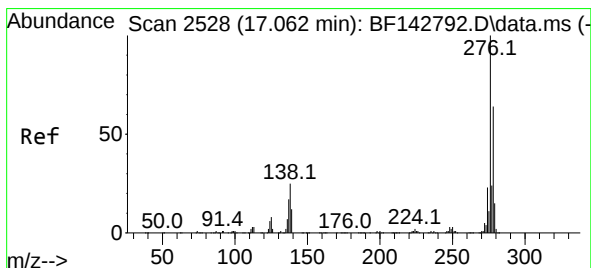
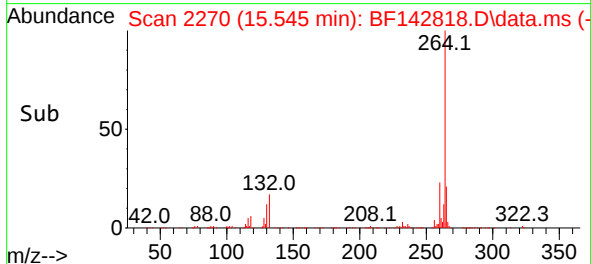
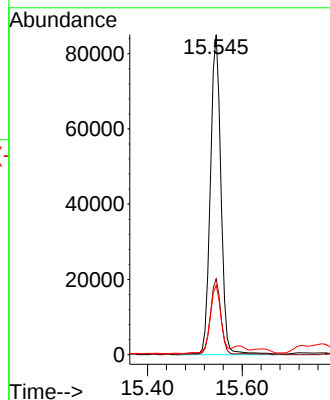
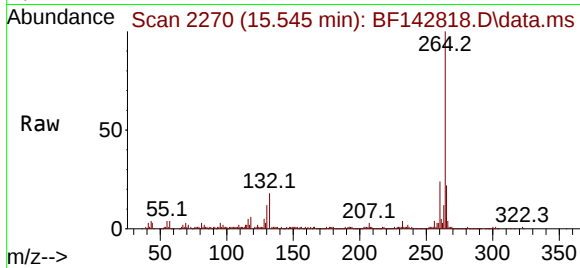
Tgt Ion:264 Resp: 131931

Ion Ratio Lower Upper

264 100

260 23.7 18.1 27.1

265 21.6 16.6 25.0



#87

Indeno(1,2,3-cd)pyrene

Concen: 4.623 ng

RT: 17.045 min Scan# 2525

Delta R.T. -0.018 min

Lab File: BF142818.D

Acq: 24 Jun 2025 13:54

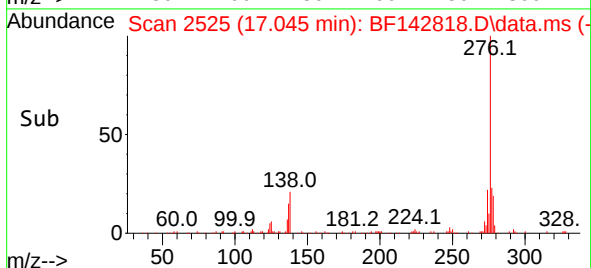
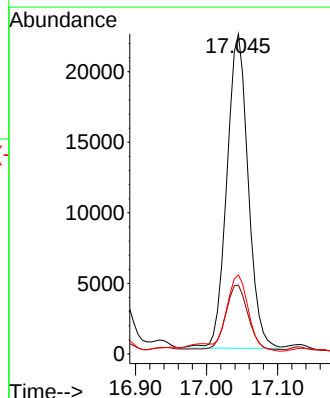
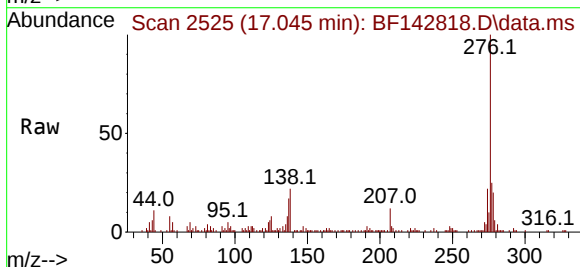
Tgt Ion:276 Resp: 46460

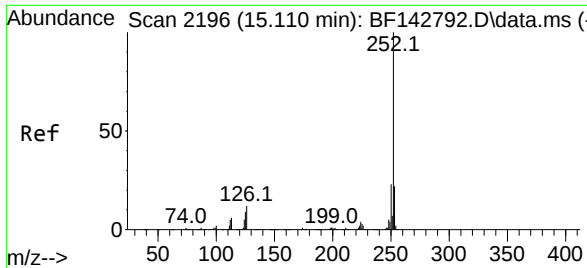
Ion Ratio Lower Upper

276 100

138 21.9 20.2 30.4

277 25.0 19.8 29.6

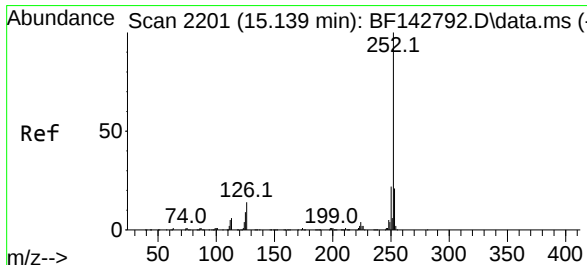
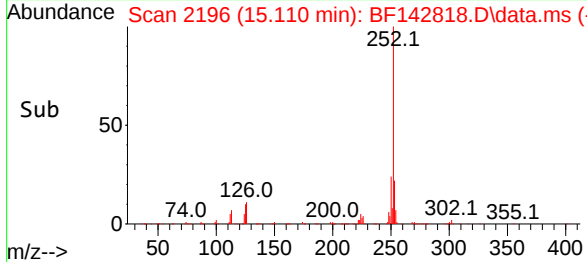
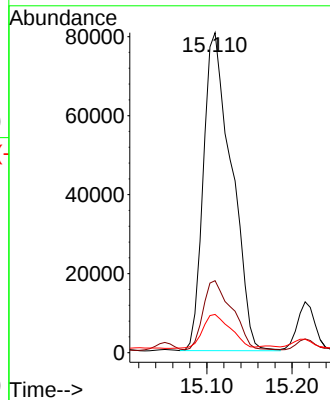
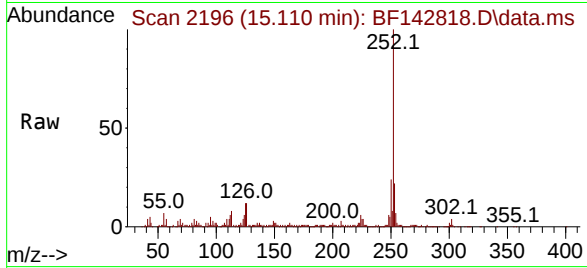




#88
Benzo(b)fluoranthene
Concen: 24.257 ng
RT: 15.110 min Scan# 2196
Delta R.T. 0.000 min
Lab File: BF142818.D
Acq: 24 Jun 2025 13:54

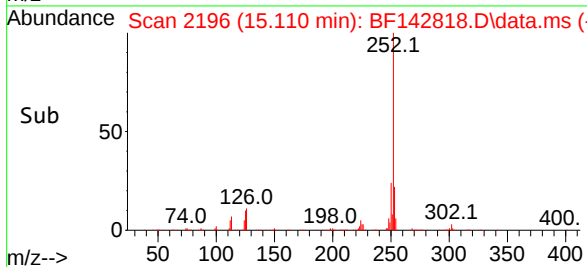
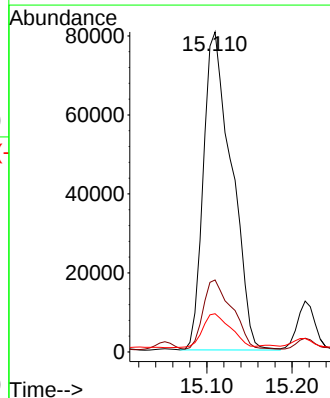
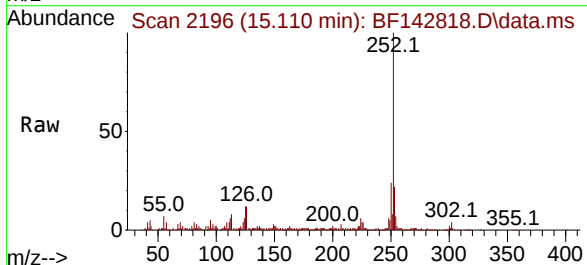
Instrument :
BNA_F
ClientSampleId :
72-11929

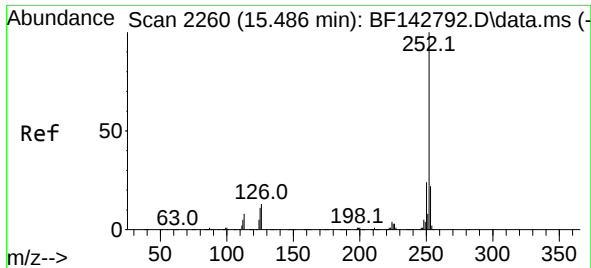
Tgt Ion:252 Resp: 185177
Ion Ratio Lower Upper
252 100
253 22.5 17.5 26.3
125 12.0 7.4 11.0#



#89
Benzo(k)fluoranthene
Concen: 25.927 ng
RT: 15.110 min Scan# 2196
Delta R.T. -0.029 min
Lab File: BF142818.D
Acq: 24 Jun 2025 13:54

Tgt Ion:252 Resp: 185177
Ion Ratio Lower Upper
252 100
253 22.5 17.2 25.8
125 12.0 7.4 11.2#

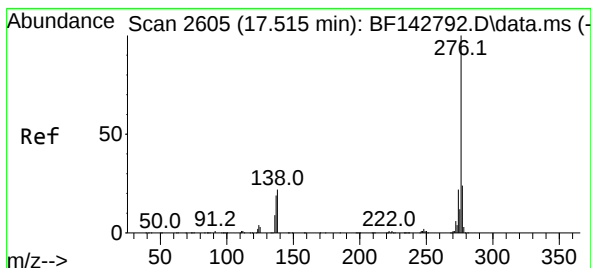
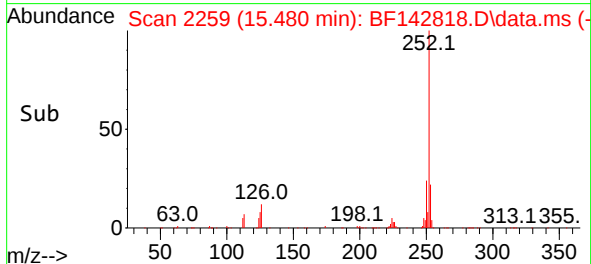
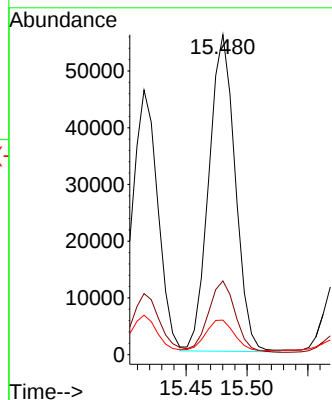
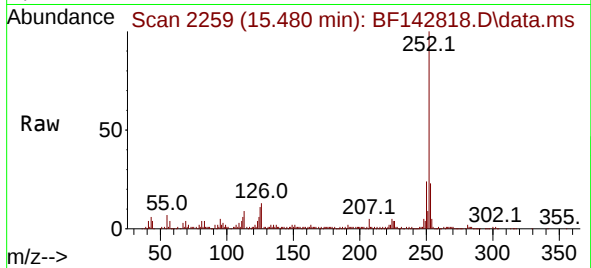




#90
Benzo(a)pyrene
Concen: 11.376 ng
RT: 15.480 min Scan# 211
Delta R.T. -0.006 min
Lab File: BF142818.D
Acq: 24 Jun 2025 13:54

Instrument :
BNA_F
ClientSampleId :
72-11929

Tgt Ion:252 Resp: 83901
Ion Ratio Lower Upper
252 100
253 23.1 17.5 26.3
125 10.8 8.6 12.8



#92
Benzo(g,h,i)perylene
Concen: 5.973 ng
RT: 17.498 min Scan# 2602
Delta R.T. -0.018 min
Lab File: BF142818.D
Acq: 24 Jun 2025 13:54

Tgt Ion:276 Resp: 48630
Ion Ratio Lower Upper
276 100
277 24.7 18.8 28.2
138 22.3 17.6 26.4

