

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF062725\
 Data File : BF142895.D
 Acq On : 27 Jun 2025 16:13
 Operator : RC/JU
 Sample : Q2420-01DL2 50X
 Misc :
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 72-11933DL2

Quant Time: Jun 27 16:34:31 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)

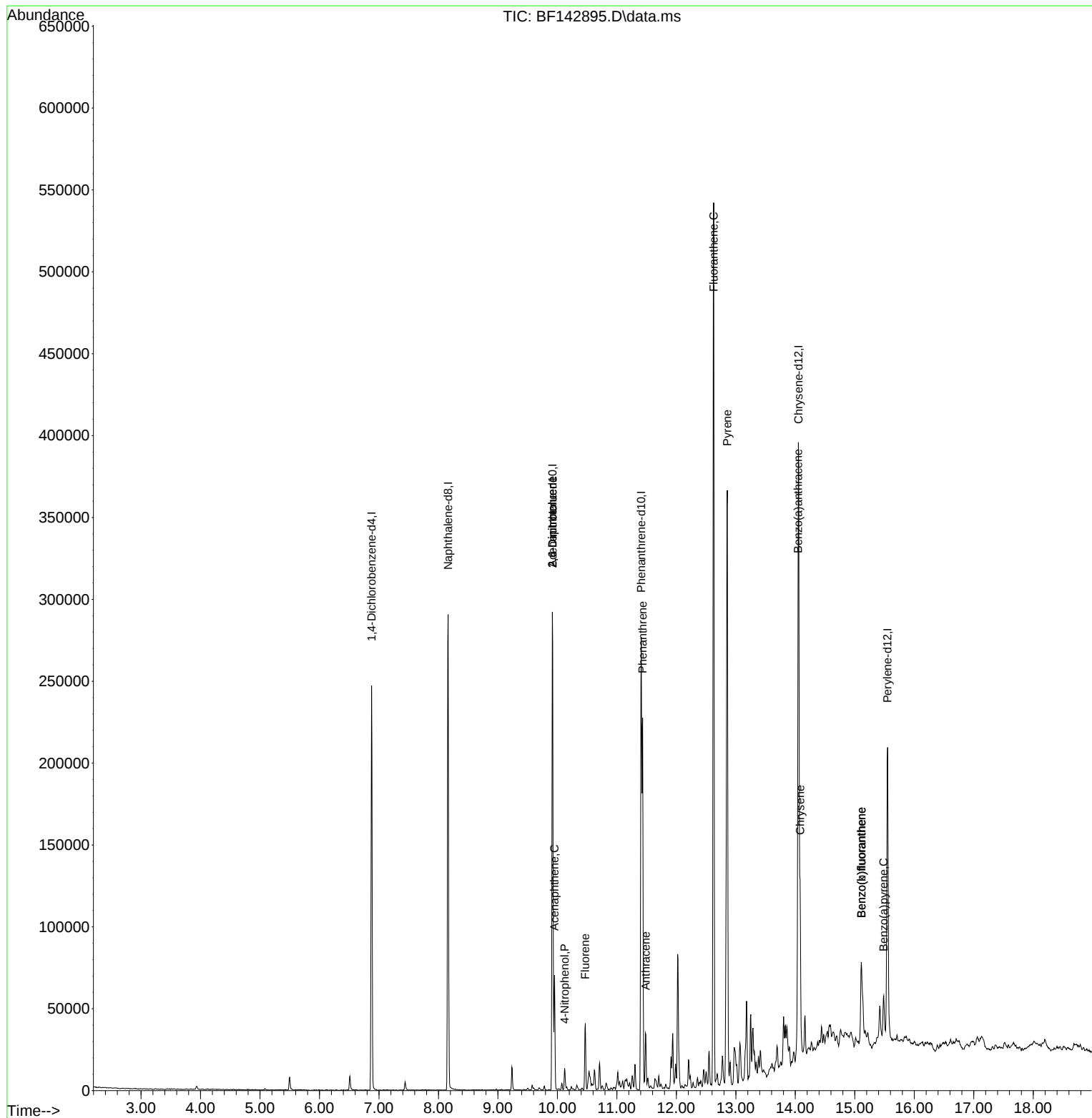
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.875	152	55921	20.000	ng	0.00
21) Naphthalene-d8	8.163	136	195324	20.000	ng	0.00
39) Acenaphthene-d10	9.916	164	90478	20.000	ng	0.00
64) Phenanthrene-d10	11.410	188	145509	20.000	ng	0.00
76) Chrysene-d12	14.057	240	148021	20.000	ng	0.00
86) Perylene-d12	15.551	264	103727	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.498	112	4466	1.330	ng	0.00
7) Phenol-d6	6.510	99	5465	1.379	ng	0.00
23) Nitrobenzene-d5	7.439	82	2836	0.796	ng	0.00
42) 2,4,6-Tribromophenol	10.710	330	1128	1.211	ng	0.00
45) 2-Fluorobiphenyl	9.233	172	8061	1.170	ng	-0.01
79) Terphenyl-d14	12.992	244	8740	0.816	ng	0.00
Target Compounds						Qvalue
51) 2,6-Dinitrotoluene	9.916	165	11296	8.783	ng	# 26
52) Acenaphthene	9.951	154	21740	4.036	ng	99
56) 4-Nitrophenol	10.122	139	2873	2.963	ng	# 10
57) 2,4-Dinitrotoluene	9.916	165	11296	6.612	ng	# 26
58) Fluorene	10.469	166	17333	2.873	ng	97
71) Phenanthrene	11.433	178	123730	15.697	ng	99
72) Anthracene	11.486	178	19627	2.428	ng	99
75) Fluoranthene	12.627	202	321812	43.019	ng	99
78) Pyrene	12.857	202	220043	15.859	ng	99
81) Benzo(a)anthracene	14.045	228	68124	6.822	ng	98
83) Chrysene	14.080	228	52648	5.909	ng	97
88) Benzo(b)fluoranthene	15.110	252	40821	6.801	ng	# 95
89) Benzo(k)fluoranthene	15.110	252	40821	7.269	ng	# 95
90) Benzo(a)pyrene	15.486	252	13485	2.326	ng	96

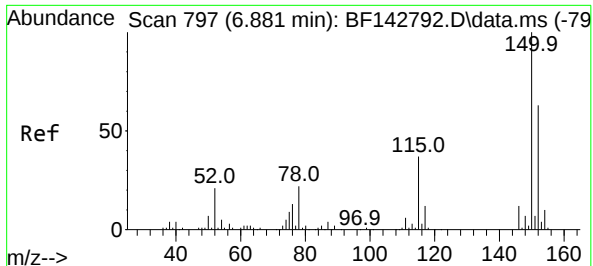
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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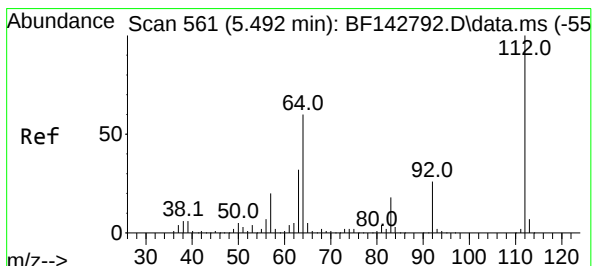
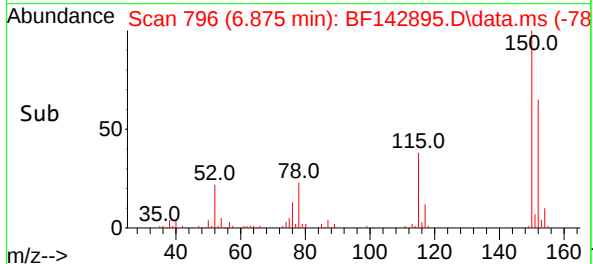
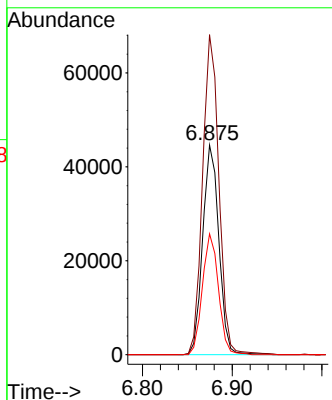
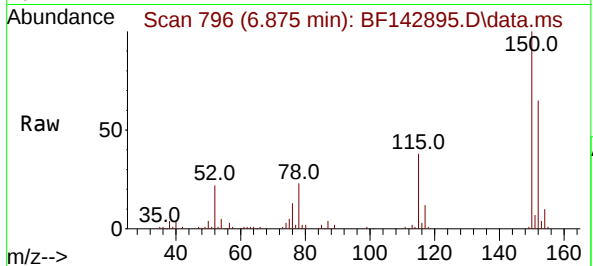




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.875 min Scan# 797
Delta R.T. -0.006 min
Lab File: BF142895.D
Acq: 27 Jun 2025 16:13

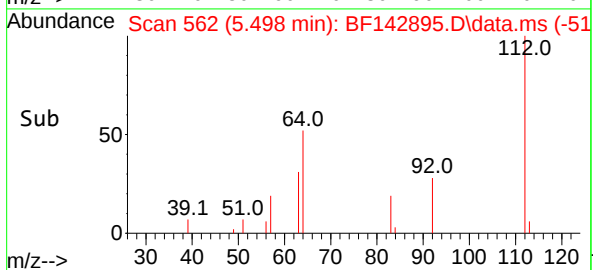
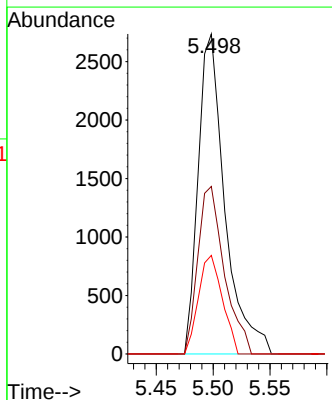
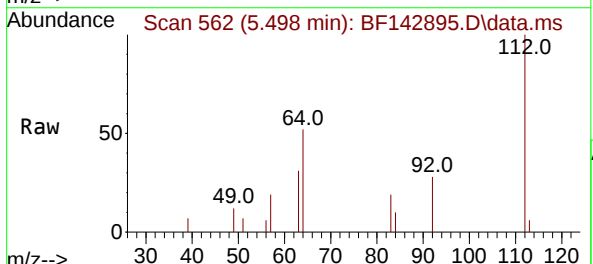
Instrument :
BNA_F
ClientSampleId :
72-11933DL2

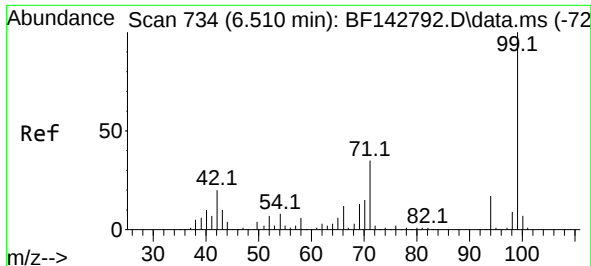
Tgt Ion:152 Resp: 55921
Ion Ratio Lower Upper
152 100
150 152.7 127.2 190.8
115 57.7 46.6 69.8



#5
2-Fluorophenol
Concen: 1.330 ng
RT: 5.498 min Scan# 562
Delta R.T. 0.006 min
Lab File: BF142895.D
Acq: 27 Jun 2025 16:13

Tgt Ion:112 Resp: 4466
Ion Ratio Lower Upper
112 100
64 52.3 48.2 72.2
63 30.8 25.7 38.5

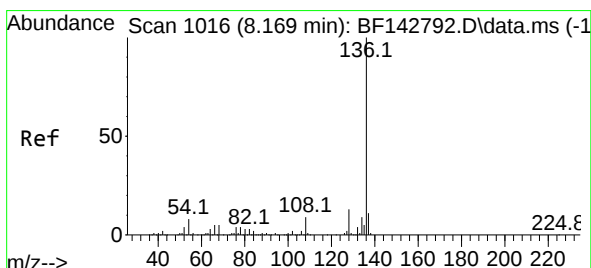
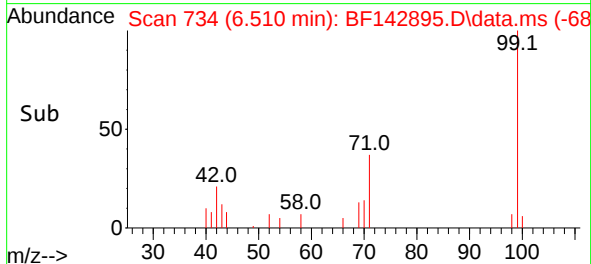
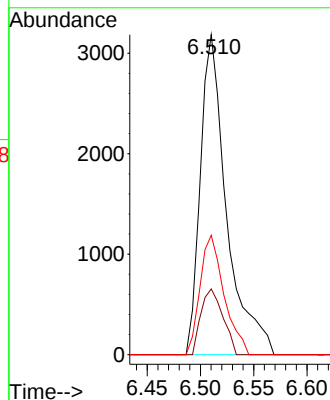
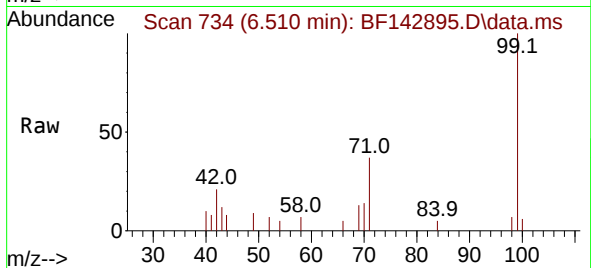




#7
Phenol-d6
Concen: 1.379 ng
RT: 6.510 min Scan# 71
Delta R.T. 0.000 min
Lab File: BF142895.D
Acq: 27 Jun 2025 16:13

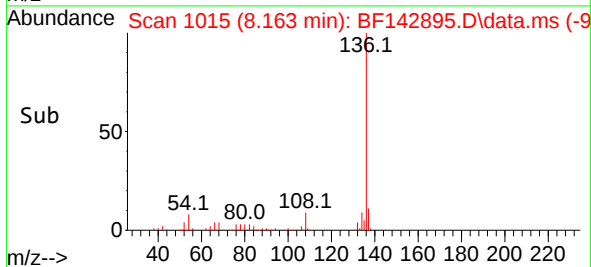
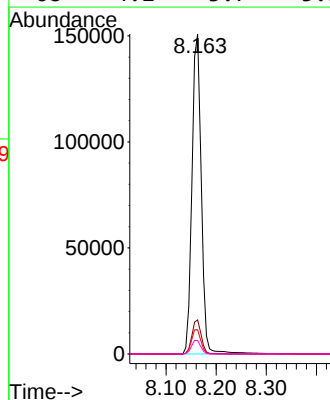
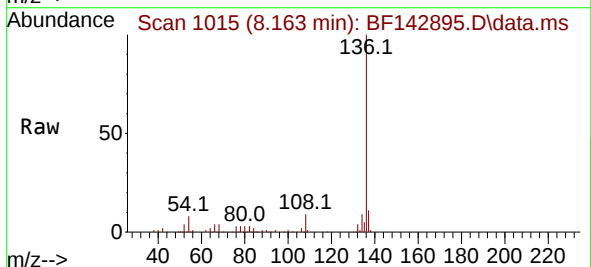
Instrument :
BNA_F
ClientSampleId :
72-11933DL2

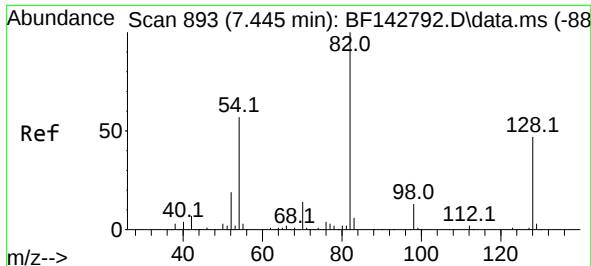
Tgt Ion: 99	Resp:	5465
Ion	Ratio	Lower Upper
99	100	
42	20.5	15.9 23.9
71	37.3	27.8 41.8



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.163 min Scan# 1015
Delta R.T. -0.006 min
Lab File: BF142895.D
Acq: 27 Jun 2025 16:13

Tgt Ion: 136	Resp:	195324
Ion	Ratio	Lower Upper
136	100	
137	10.7	8.4 12.6
54	7.5	6.3 9.5
68	4.2	3.7 5.5





#23

Nitrobenzene-d5

Concen: 0.796 ng

RT: 7.439 min Scan# 89

Delta R.T. -0.006 min

Lab File: BF142895.D

Acq: 27 Jun 2025 16:13

Instrument :

BNA_F

ClientSampleId :

72-11933DL2

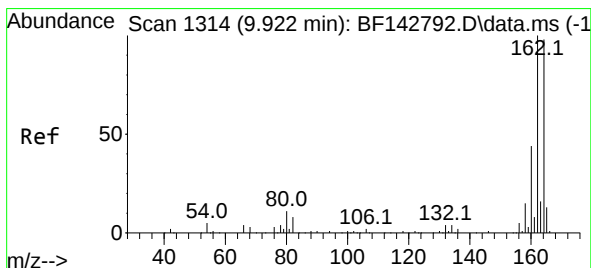
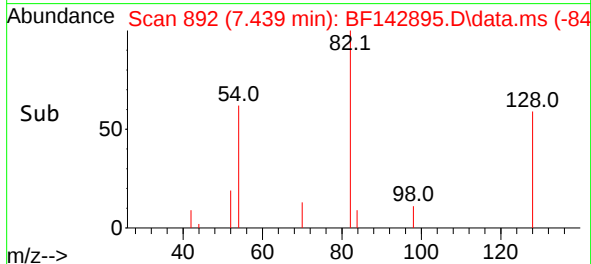
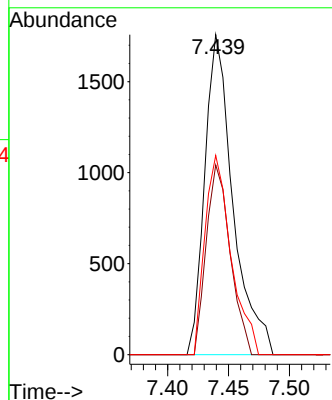
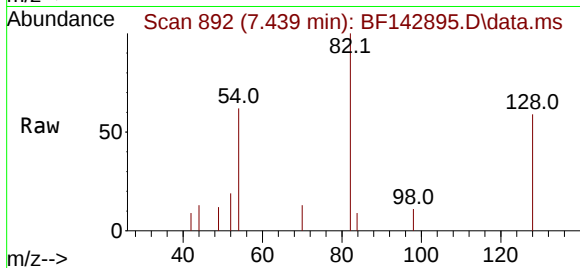
Tgt Ion: 82 Resp: 2836

Ion Ratio Lower Upper

82 100

128 59.3 37.7 56.5#

54 62.2 45.7 68.5



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.916 min Scan# 1313

Delta R.T. -0.006 min

Lab File: BF142895.D

Acq: 27 Jun 2025 16:13

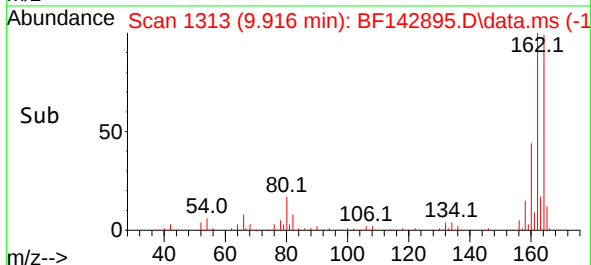
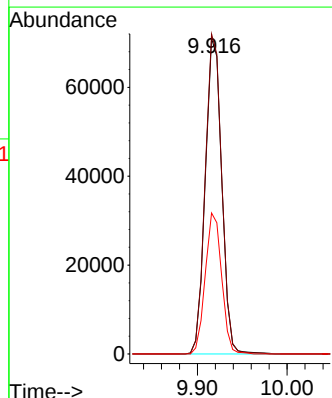
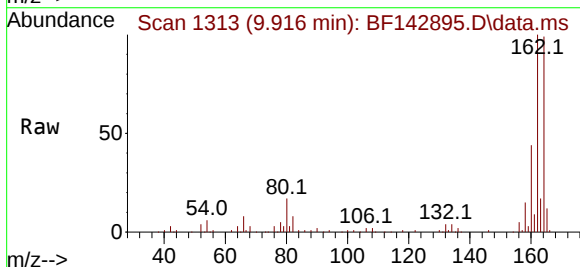
Tgt Ion:164 Resp: 90478

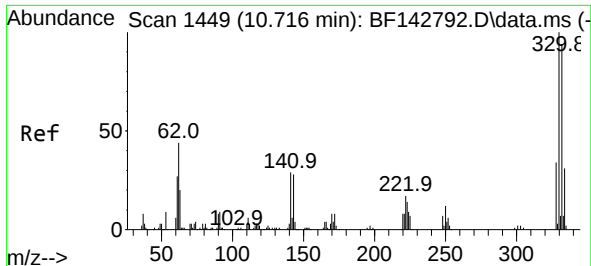
Ion Ratio Lower Upper

164 100

162 101.4 81.8 122.8

160 44.7 36.0 54.0





#42

2,4,6-Tribromophenol

Concen: 1.211 ng

RT: 10.710 min Scan# 1449

Delta R.T. -0.006 min

Lab File: BF142895.D

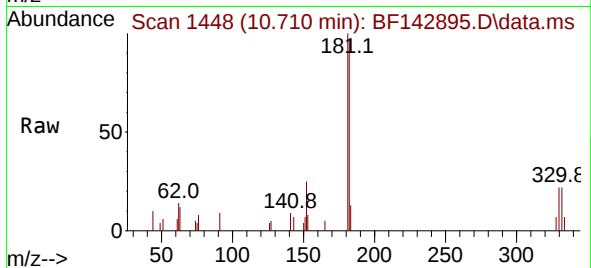
Acq: 27 Jun 2025 16:13

Instrument :

BNA_F

ClientSampleId :

72-11933DL2



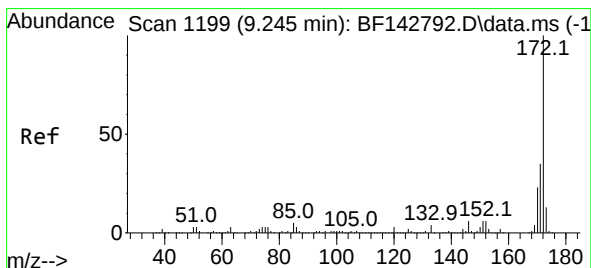
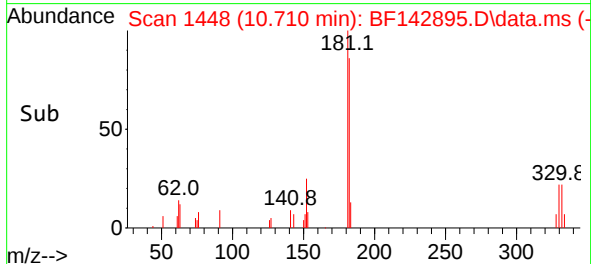
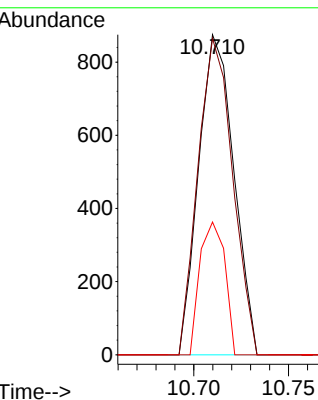
Tgt Ion: 330 Resp: 1128

Ion Ratio Lower Upper

330 100

332 97.6 75.0 112.6

141 29.5 25.3 37.9



#45

2-Fluorobiphenyl

Concen: 1.170 ng

RT: 9.233 min Scan# 1197

Delta R.T. -0.012 min

Lab File: BF142895.D

Acq: 27 Jun 2025 16:13

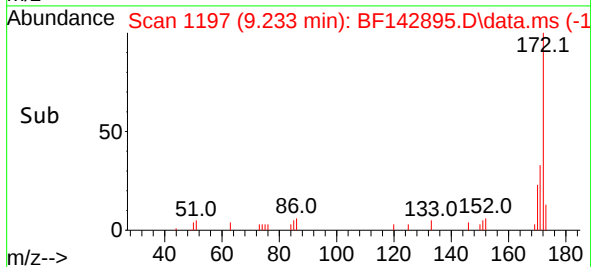
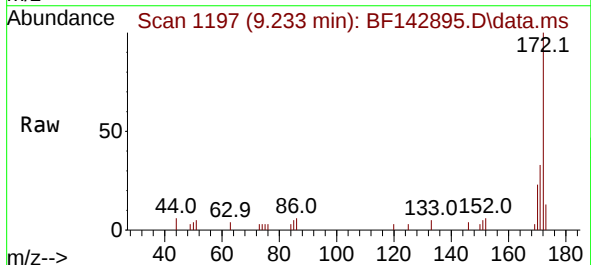
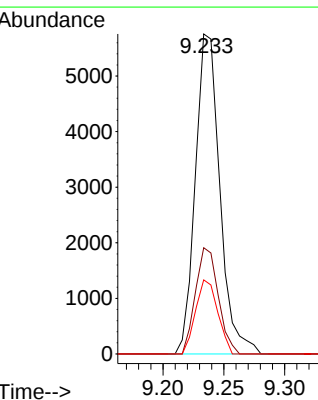
Tgt Ion: 172 Resp: 8061

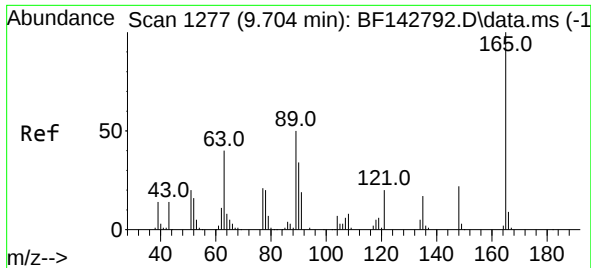
Ion Ratio Lower Upper

172 100

171 33.2 28.2 42.4

170 23.1 18.5 27.7

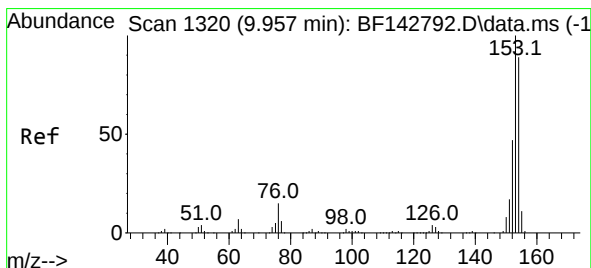
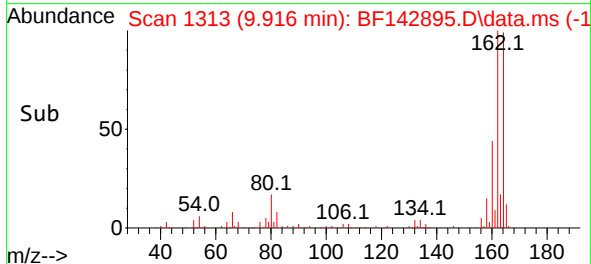
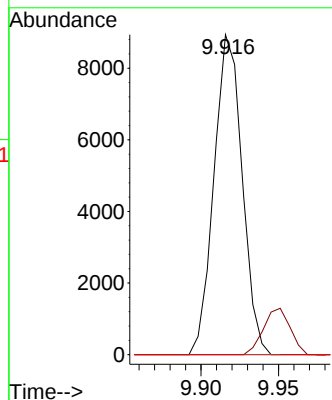
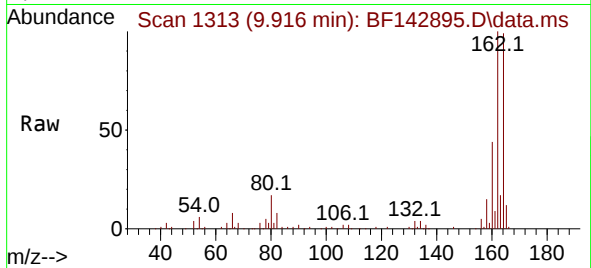




#51
2,6-Dinitrotoluene
Concen: 8.783 ng
RT: 9.916 min Scan# 11
Delta R.T. 0.212 min
Lab File: BF142895.D
Acq: 27 Jun 2025 16:13

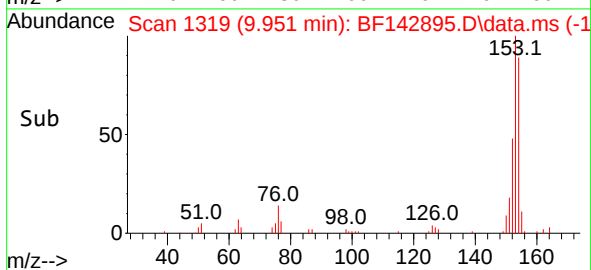
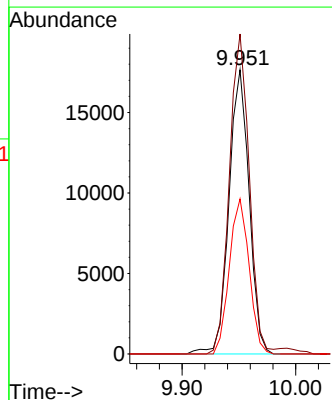
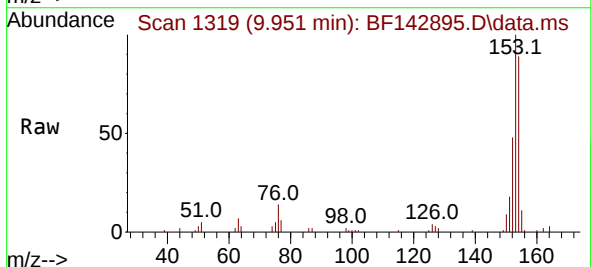
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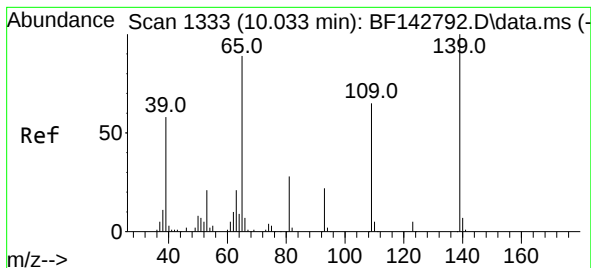
Tgt Ion:165 Resp: 11296
Ion Ratio Lower Upper
165 100
63 0.0 44.2 66.4#
89 0.0 39.8 59.8#



#52
Acenaphthene
Concen: 4.036 ng
RT: 9.951 min Scan# 1319
Delta R.T. -0.006 min
Lab File: BF142895.D
Acq: 27 Jun 2025 16:13

Tgt Ion:154 Resp: 21740
Ion Ratio Lower Upper
154 100
153 112.6 90.0 135.0
152 54.5 41.9 62.9

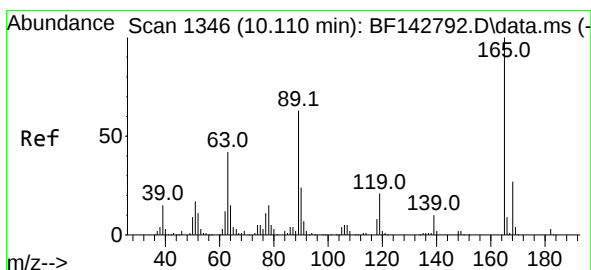
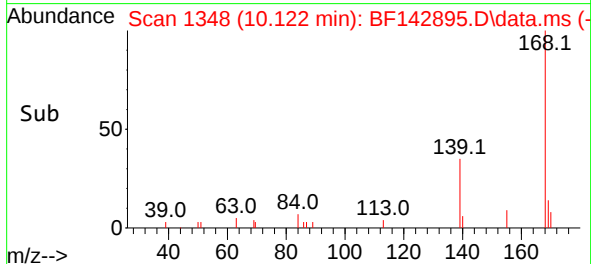
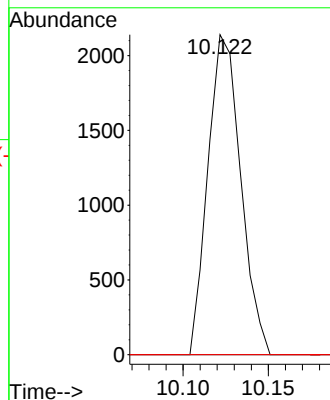
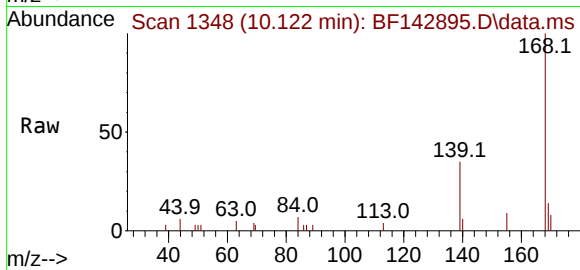




#56
4-Nitrophenol
Concen: 2.963 ng
RT: 10.122 min Scan# 11
Delta R.T. 0.088 min
Lab File: BF142895.D
Acq: 27 Jun 2025 16:13

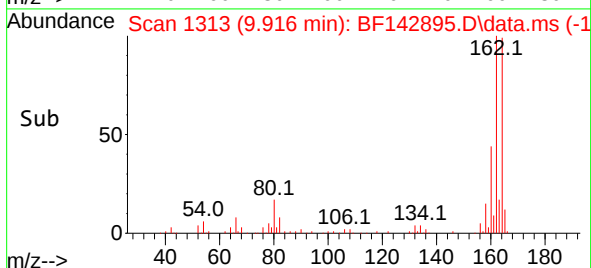
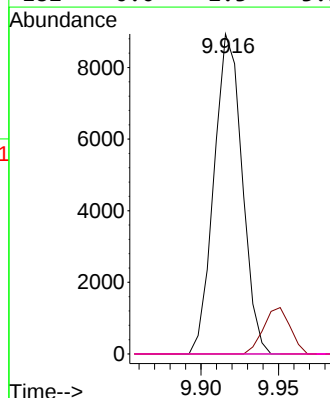
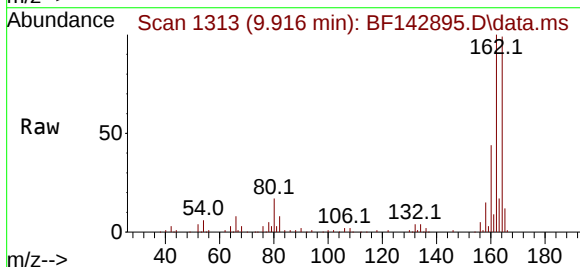
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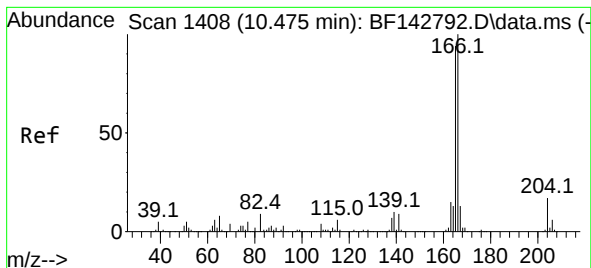
Tgt Ion:139 Resp: 2873
Ion Ratio Lower Upper
139 100
109 0.0 44.7 84.7#
65 0.0 69.8 109.8#



#57
2,4-Dinitrotoluene
Concen: 6.612 ng
RT: 9.916 min Scan# 1313
Delta R.T. -0.194 min
Lab File: BF142895.D
Acq: 27 Jun 2025 16:13

Tgt Ion:165 Resp: 11296
Ion Ratio Lower Upper
165 100
63 0.0 33.9 50.9#
89 0.0 50.6 75.8#
182 0.0 2.3 3.5#





#58

Fluorene

Concen: 2.873 ng

RT: 10.469 min Scan# 1407

Delta R.T. -0.006 min

Lab File: BF142895.D

Acq: 27 Jun 2025 16:13

Instrument :

BNA_F

ClientSampleId :

72-11933DL2

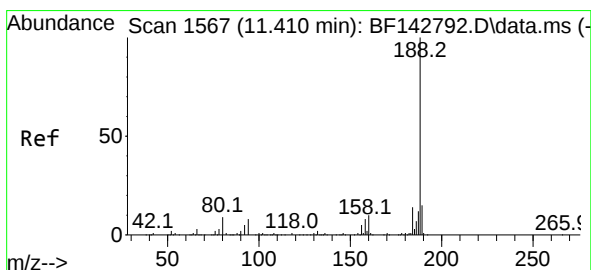
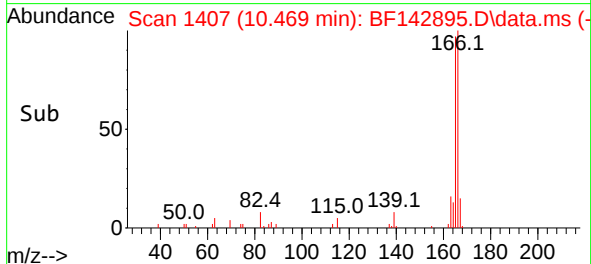
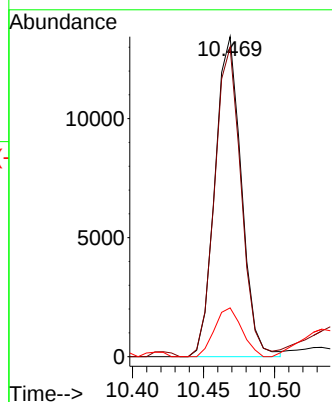
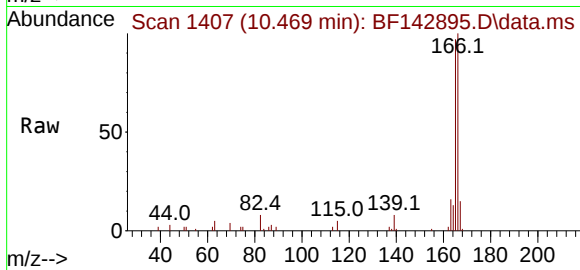
Tgt Ion:166 Resp: 17333

Ion Ratio Lower Upper

166 100

165 96.7 75.2 112.8

167 15.3 10.6 15.8



#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.410 min Scan# 1567

Delta R.T. 0.000 min

Lab File: BF142895.D

Acq: 27 Jun 2025 16:13

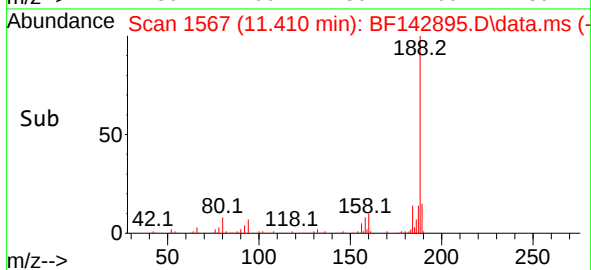
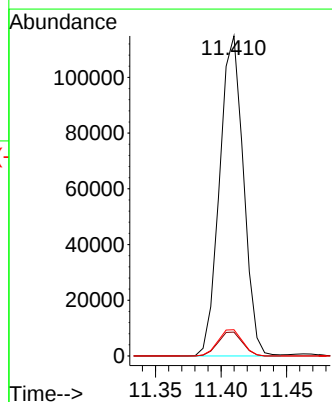
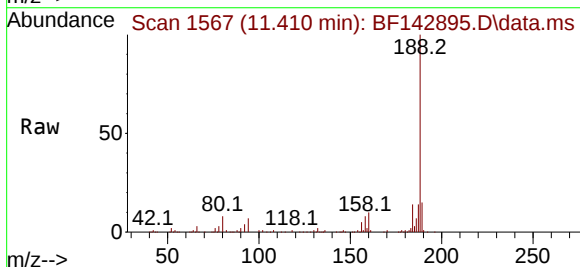
Tgt Ion:188 Resp: 145509

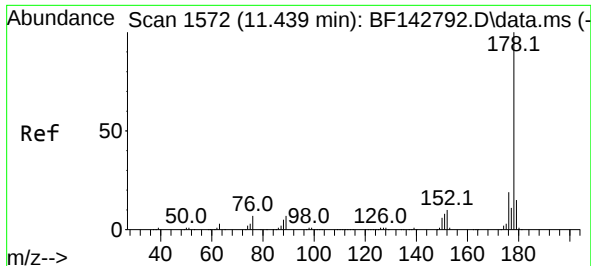
Ion Ratio Lower Upper

188 100

94 7.4 6.7 10.1

80 8.2 6.9 10.3

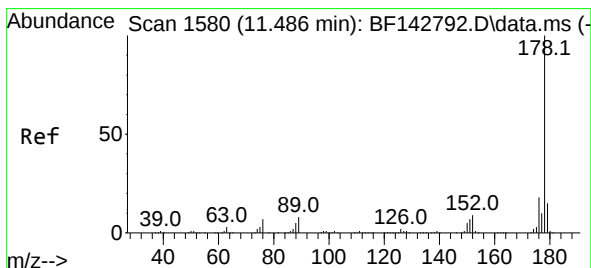
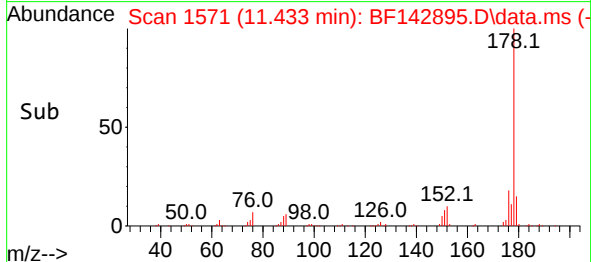
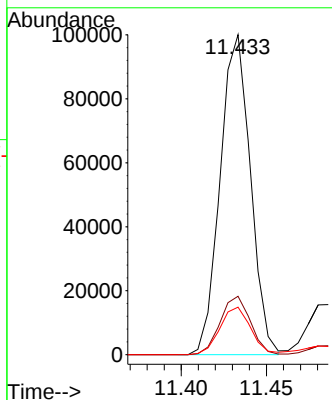
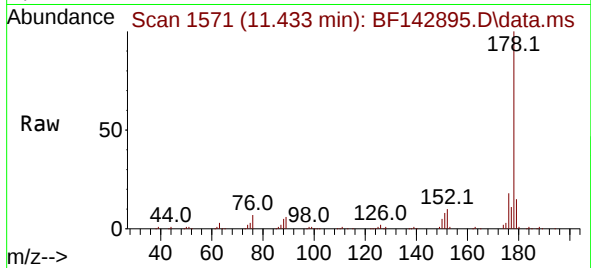




#71
Phenanthrene
Concen: 15.697 ng
RT: 11.433 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF142895.D
Acq: 27 Jun 2025 16:13

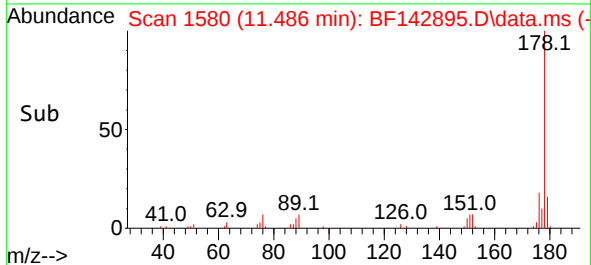
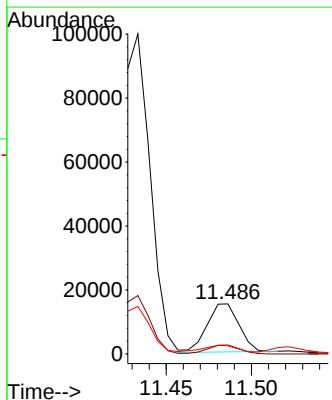
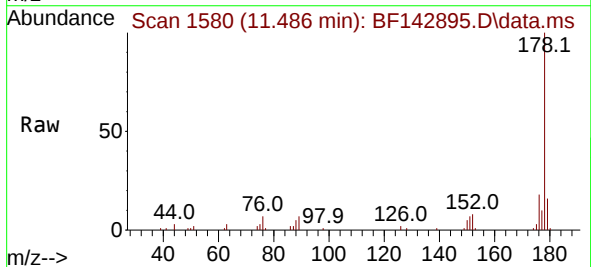
Instrument :
BNA_F
ClientSampleId :
72-11933DL2

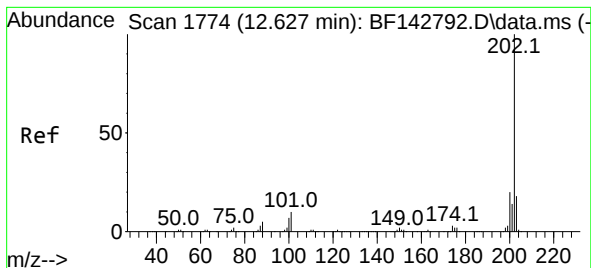
Tgt Ion:178 Resp: 123730
Ion Ratio Lower Upper
178 100
176 18.2 15.1 22.7
179 14.8 12.0 18.0



#72
Anthracene
Concen: 2.428 ng
RT: 11.486 min Scan# 1580
Delta R.T. 0.000 min
Lab File: BF142895.D
Acq: 27 Jun 2025 16:13

Tgt Ion:178 Resp: 19627
Ion Ratio Lower Upper
178 100
176 17.9 14.6 21.8
179 16.3 12.4 18.6





#75

Fluoranthene

Concen: 43.019 ng

RT: 12.627 min Scan# 11

Delta R.T. 0.000 min

Lab File: BF142895.D

Acq: 27 Jun 2025 16:13

Instrument :

BNA_F

ClientSampleId :

72-11933DL2

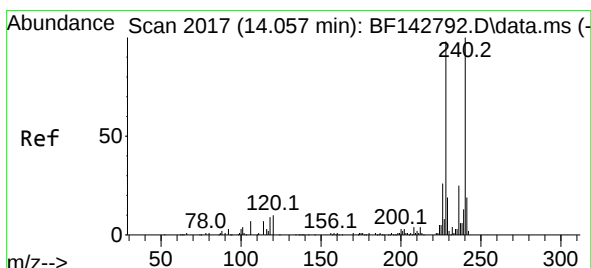
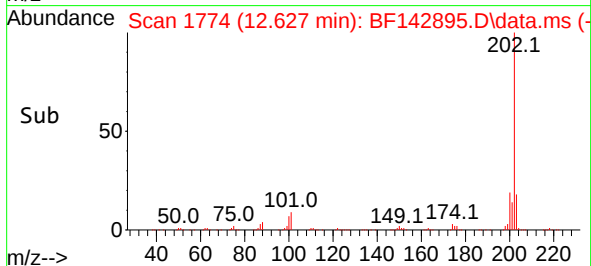
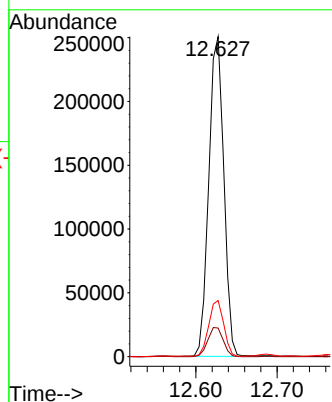
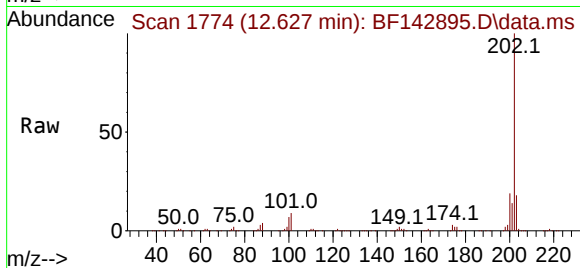
Tgt Ion:202 Resp: 321812

Ion Ratio Lower Upper

202 100

101 9.0 0.0 29.7

203 17.5 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: BF142895.D

Acq: 27 Jun 2025 16:13

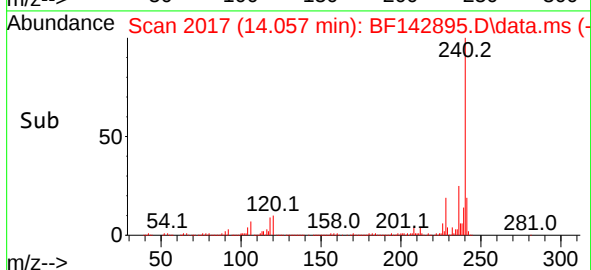
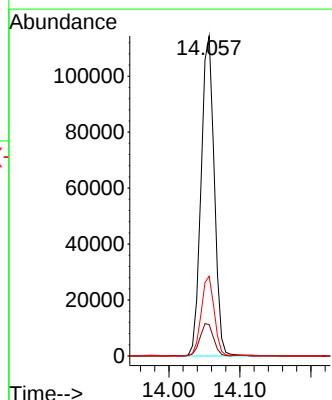
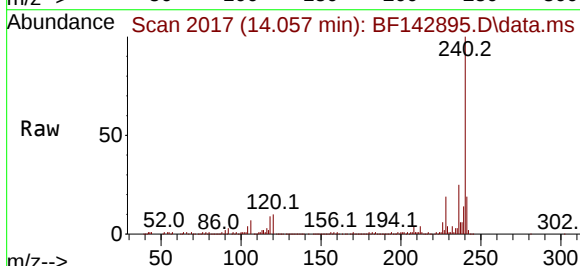
Tgt Ion:240 Resp: 148021

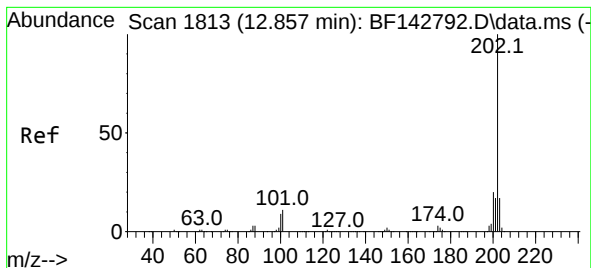
Ion Ratio Lower Upper

240 100

120 9.8 8.2 12.2

236 24.9 19.8 29.8





#78

Pyrene

Concen: 15.859 ng

RT: 12.857 min Scan# 1813

Delta R.T. 0.000 min

Lab File: BF142895.D

Acq: 27 Jun 2025 16:13

Instrument :

BNA_F

ClientSampleId :

72-11933DL2

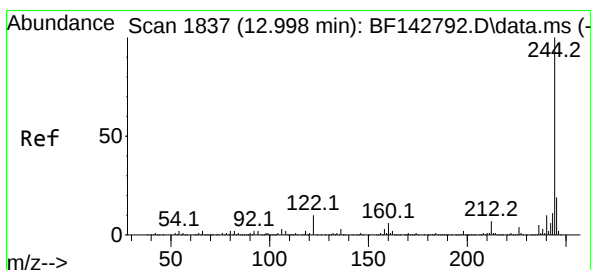
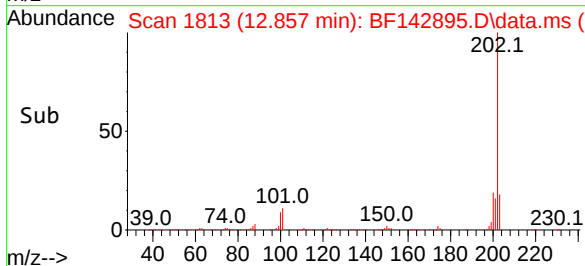
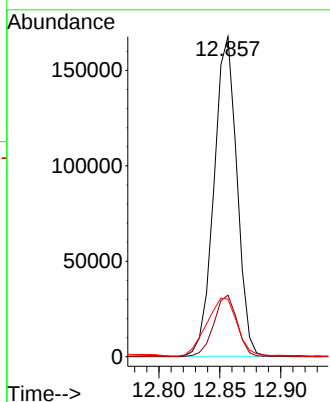
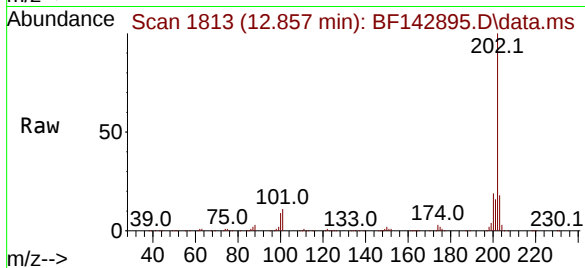
Tgt Ion:202 Resp: 220043

Ion Ratio Lower Upper

202 100

200 19.3 15.7 23.5

203 18.0 13.8 20.6



#79

Terphenyl-d14

Concen: 0.816 ng

RT: 12.992 min Scan# 1836

Delta R.T. -0.006 min

Lab File: BF142895.D

Acq: 27 Jun 2025 16:13

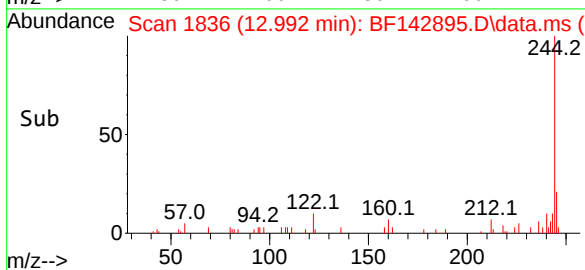
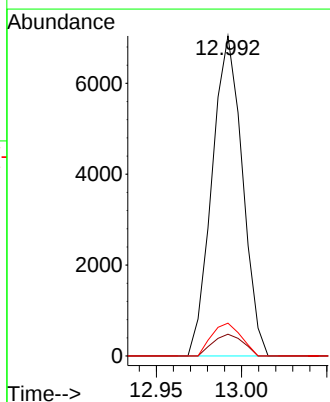
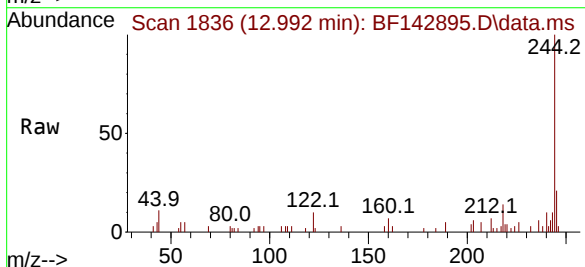
Tgt Ion:244 Resp: 8740

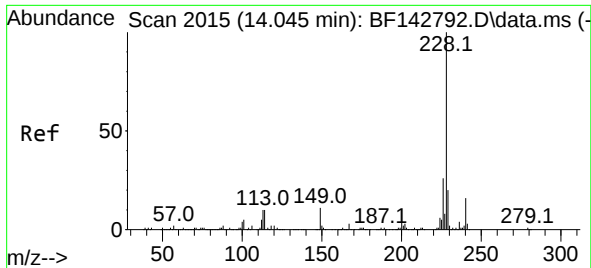
Ion Ratio Lower Upper

244 100

212 6.8 5.4 8.0

122 10.3 8.2 12.2

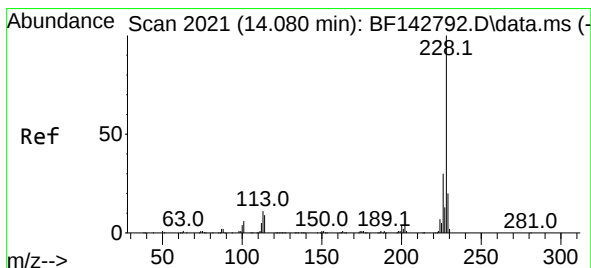
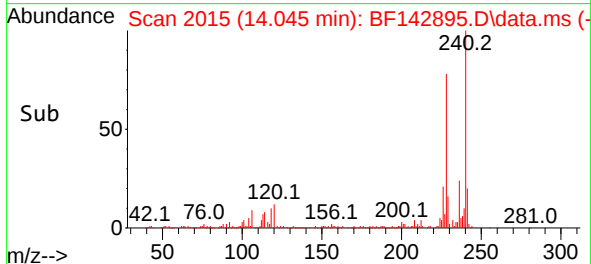
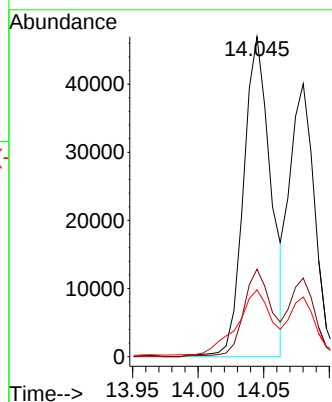
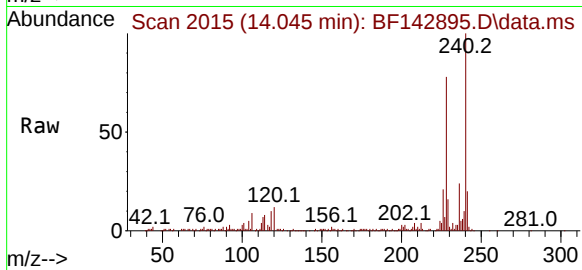




#81
Benzo(a)anthracene
Concen: 6.822 ng
RT: 14.045 min Scan# 2015
Delta R.T. 0.000 min
Lab File: BF142895.D
Acq: 27 Jun 2025 16:13

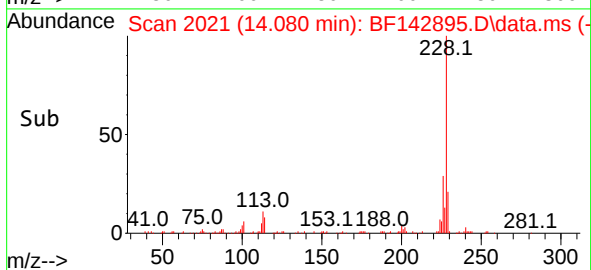
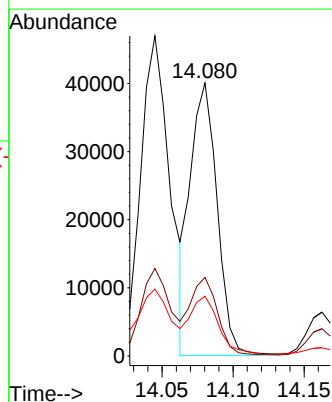
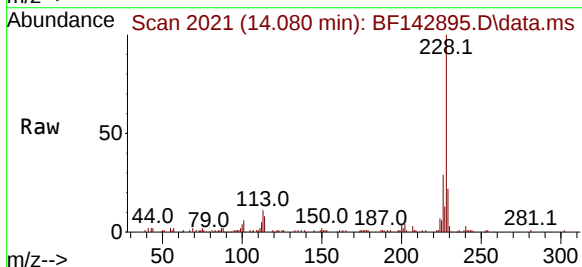
Instrument :
BNA_F
ClientSampleId :
72-11933DL2

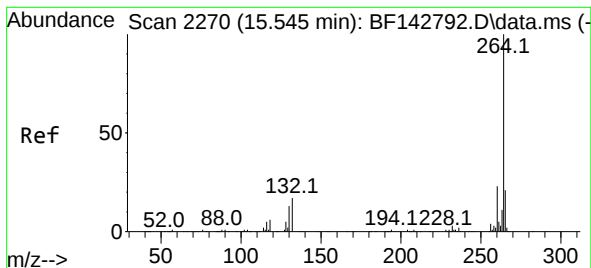
Tgt Ion:228 Resp: 68124
Ion Ratio Lower Upper
228 100
226 27.3 21.2 31.8
229 20.9 15.6 23.4



#83
Chrysene
Concen: 5.909 ng
RT: 14.080 min Scan# 2021
Delta R.T. 0.000 min
Lab File: BF142895.D
Acq: 27 Jun 2025 16:13

Tgt Ion:228 Resp: 52648
Ion Ratio Lower Upper
228 100
226 28.8 23.7 35.5
229 21.9 15.7 23.5





#86

Perylene-d12

Concen: 20.000 ng

RT: 15.551 min Scan# 2196

Delta R.T. 0.006 min

Lab File: BF142895.D

Acq: 27 Jun 2025 16:13

Instrument :

BNA_F

ClientSampleId :

72-11933DL2

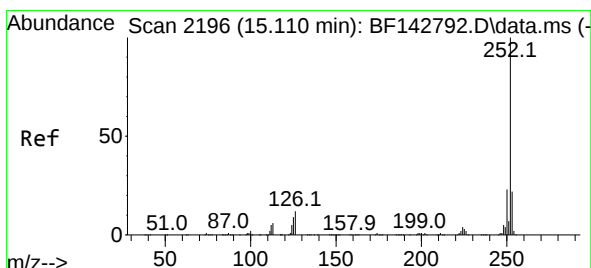
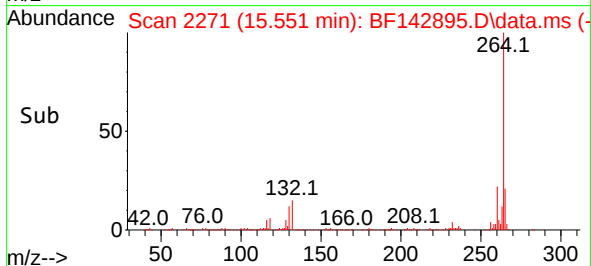
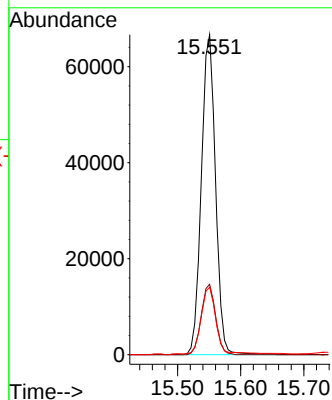
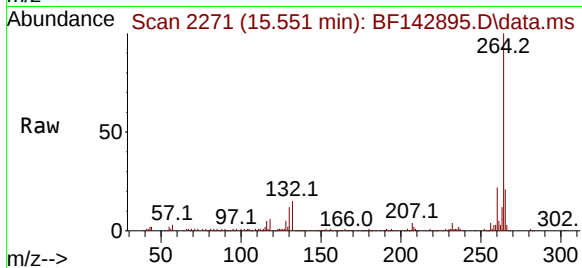
Tgt Ion:264 Resp: 103727

Ion Ratio Lower Upper

264 100

260 22.0 18.1 27.1

265 21.1 16.6 25.0



#88

Benzo(b)fluoranthene

Concen: 6.801 ng

RT: 15.110 min Scan# 2196

Delta R.T. 0.000 min

Lab File: BF142895.D

Acq: 27 Jun 2025 16:13

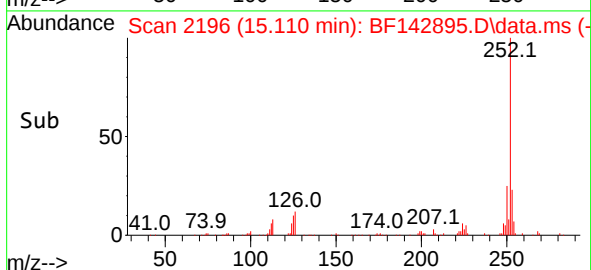
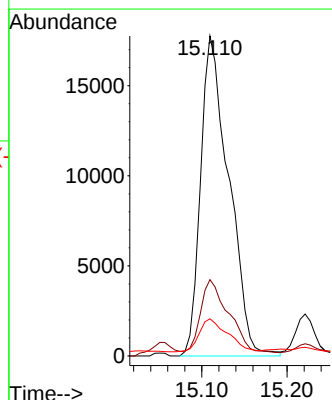
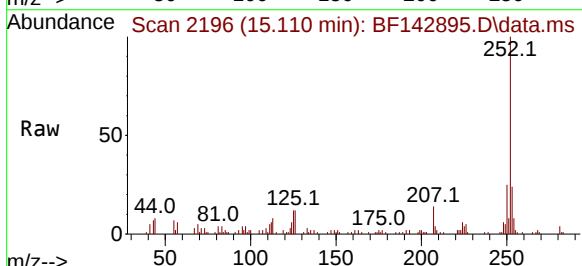
Tgt Ion:252 Resp: 40821

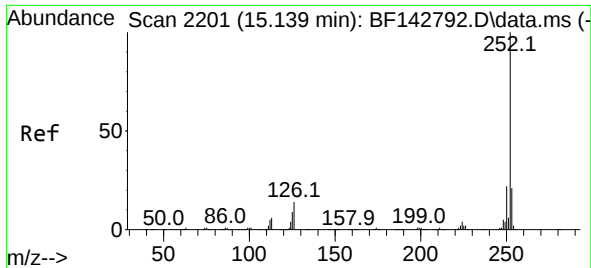
Ion Ratio Lower Upper

252 100

253 23.9 17.5 26.3

125 11.6 7.4 11.0#

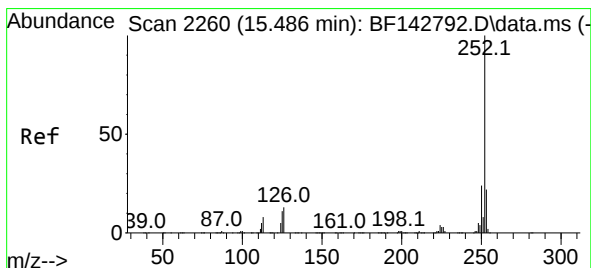
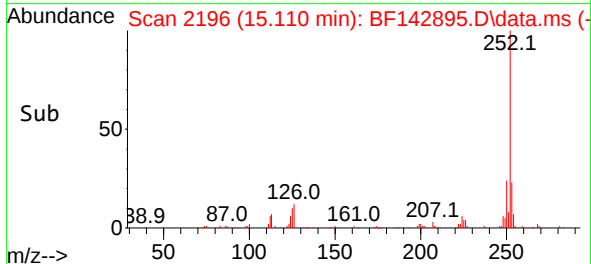
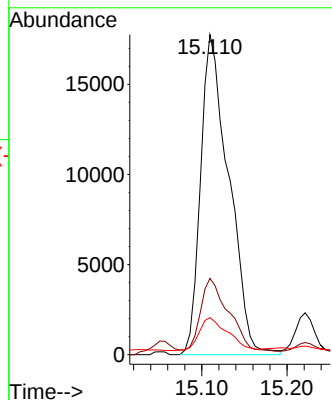
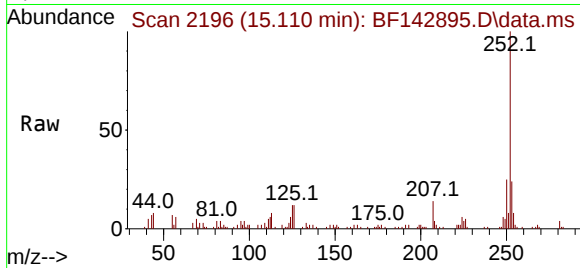




#89
Benzo(k)fluoranthene
Concen: 7.269 ng
RT: 15.110 min Scan# 2196
Delta R.T. -0.029 min
Lab File: BF142895.D
Acq: 27 Jun 2025 16:13

Instrument :
BNA_F
ClientSampleId :
72-11933DL2

Tgt Ion:252 Resp: 40821
Ion Ratio Lower Upper
252 100
253 23.9 17.2 25.8
125 11.6 7.4 11.2#



#90
Benzo(a)pyrene
Concen: 2.326 ng
RT: 15.486 min Scan# 2260
Delta R.T. 0.000 min
Lab File: BF142895.D
Acq: 27 Jun 2025 16:13

Tgt Ion:252 Resp: 13485
Ion Ratio Lower Upper
252 100
253 23.7 17.5 26.3
125 12.4 8.6 12.8

