

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF033125\
 Data File : BF142197.D
 Acq On : 31 Mar 2025 23:25
 Operator : RC/JU
 Sample : Q1674-03
 Misc :
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 72-11991

Quant Time: Apr 01 00:50:19 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF031025.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Mar 10 15:46:22 2025
 Response via : Initial Calibration

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

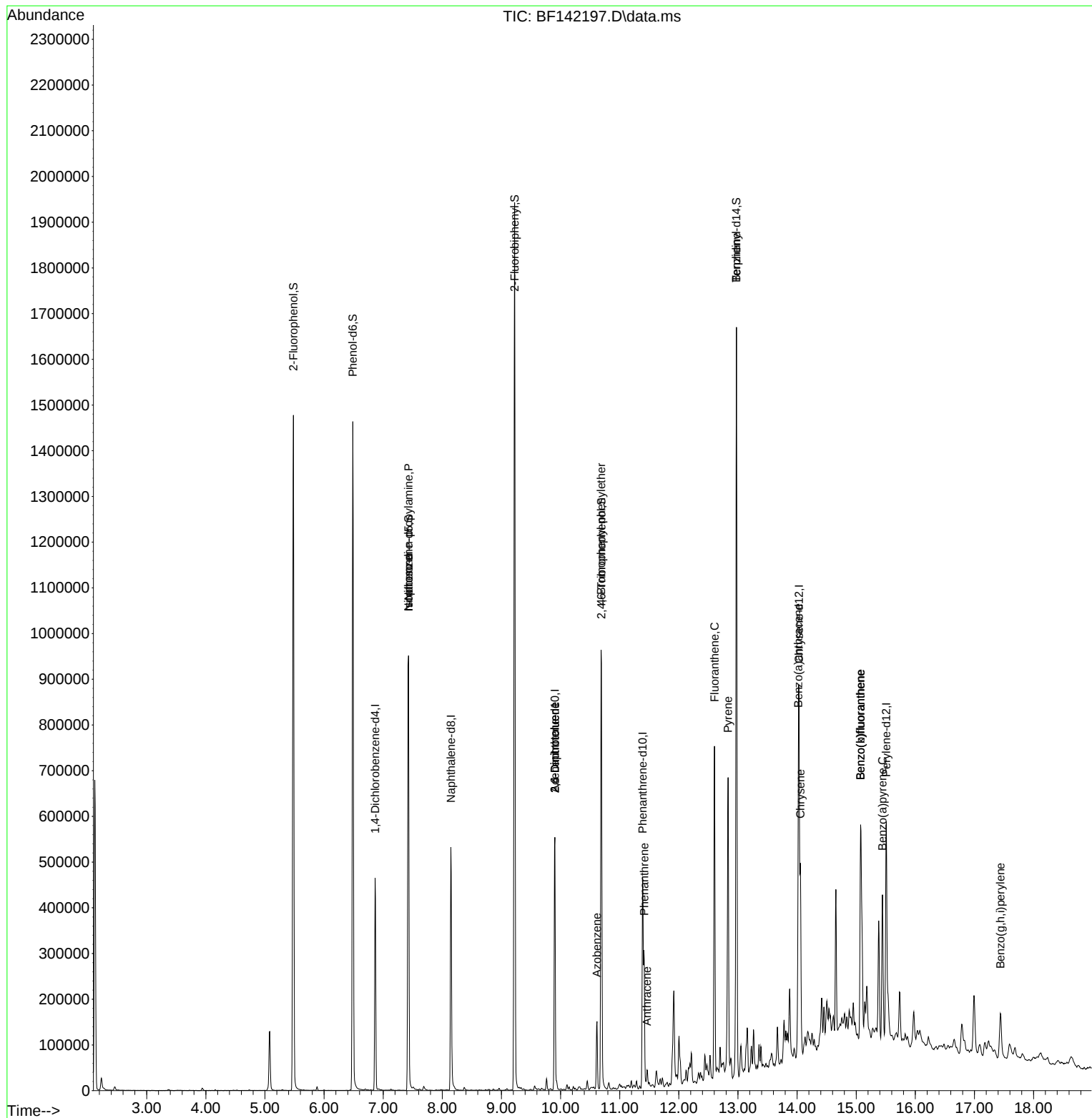
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.863	152	100495	20.000	ng	-0.02
21) Naphthalene-d8	8.145	136	360838	20.000	ng	-0.02
39) Acenaphthene-d10	9.904	164	172508	20.000	ng	-0.01
64) Phenanthrene-d10	11.386	188	244726	20.000	ng	-0.02
76) Chrysene-d12	14.033	240	268434	20.000	ng	0.00
86) Perylene-d12	15.509	264	288019	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.481	112	580198	96.356	ng	-0.01
7) Phenol-d6	6.487	99	696973	90.910	ng	-0.02
23) Nitrobenzene-d5	7.428	82	450291	70.227	ng	-0.02
42) 2,4,6-Tribromophenol	10.692	330	187261	85.566	ng	-0.01
45) 2-Fluorobiphenyl	9.222	172	848490	74.802	ng	-0.02
79) Terphenyl-d14	12.974	244	782576	43.102	ng	-0.01
Target Compounds						Qvalue
19) n-Nitroso-di-n-propyla...	7.428	70	61068	12.397	ng	# 76
25) Isophorone	7.428	82	444773	39.242	ng	# 64
51) 2,6-Dinitrotoluene	9.904	165	22090	8.782	ng	# 23
57) 2,4-Dinitrotoluene	9.904	165	22090	6.724	ng	# 24
63) Azobenzene	10.616	77	37357	3.336	ng	# 1
67) 4-Bromophenyl-phenylether	10.686	248	12154	3.954	ng	# 1
71) Phenanthrene	11.416	178	158323	11.977	ng	98
72) Anthracene	11.463	178	28468	2.147	ng	97
75) Fluoranthene	12.604	202	411017	29.313	ng	99
77) Benzidine	12.974	184	10532	2.812	ng	# 92
78) Pyrene	12.833	202	380664	16.394	ng	99
81) Benzo(a)anthracene	14.021	228	222864	12.652	ng	97
83) Chrysene	14.057	228	218023	13.654	ng	98
88) Benzo(b)fluoranthene	15.074	252	429695	21.768	ng	99
89) Benzo(k)fluoranthene	15.074	252	429695	25.437	ng	99
90) Benzo(a)pyrene	15.445	252	200613	12.988	ng	99
92) Benzo(g,h,i)perylene	17.439	276	89881	5.917	ng	98

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

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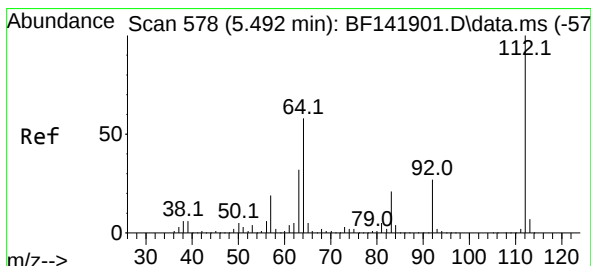
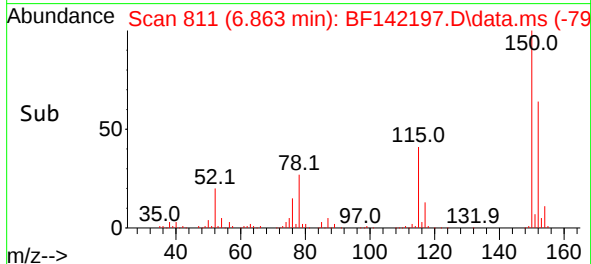
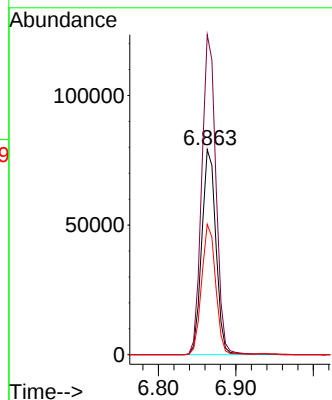
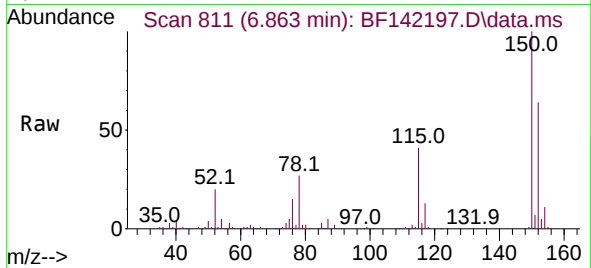




#1
 1,4-Dichlorobenzene-d4
 Concen: 20.000 ng
 RT: 6.863 min Scan# 814
 Delta R.T. -0.018 min
 Lab File: BF142197.D
 Acq: 31 Mar 2025 23:25

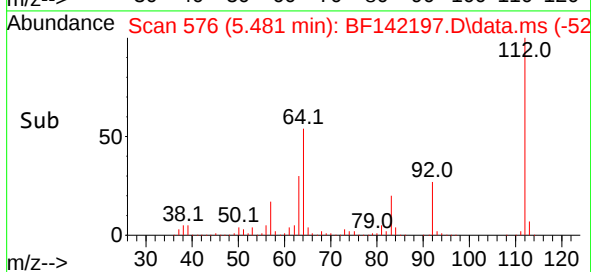
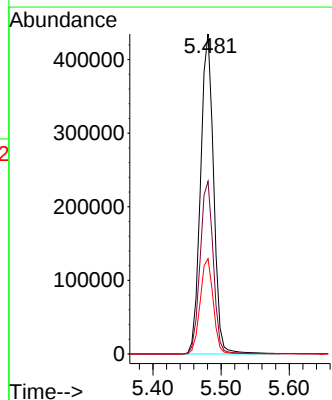
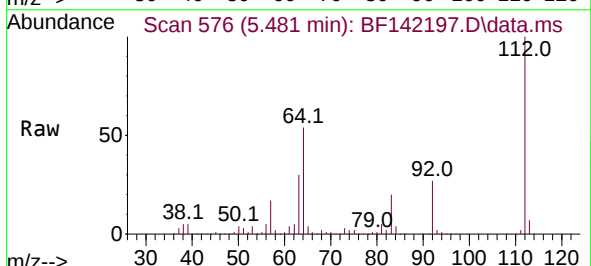
Instrument :
 BNA_F
 ClientSampleId :
 72-11991

Tgt Ion:152 Resp: 100495
 Ion Ratio Lower Upper
 152 100
 150 156.0 127.4 191.2
 115 63.6 51.9 77.9



#5
 2-Fluorophenol
 Concen: 96.356 ng
 RT: 5.481 min Scan# 576
 Delta R.T. -0.012 min
 Lab File: BF142197.D
 Acq: 31 Mar 2025 23:25

Tgt Ion:112 Resp: 580198
 Ion Ratio Lower Upper
 112 100
 64 54.0 46.5 69.7
 63 29.8 25.4 38.2

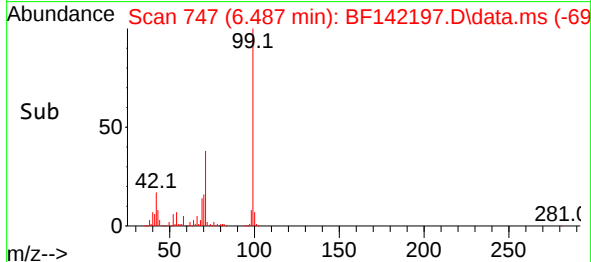
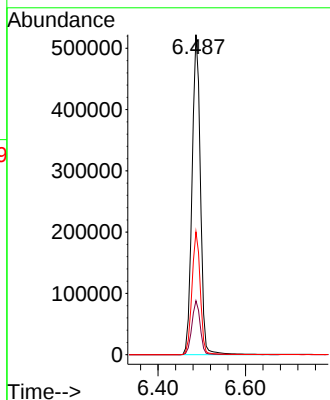
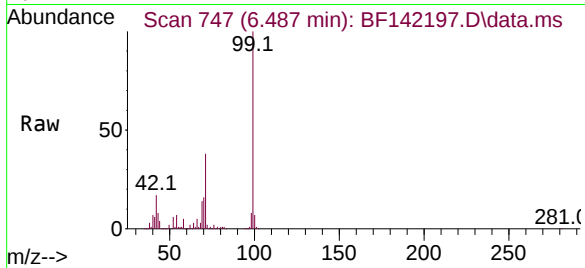




#7
Phenol-d6
Concen: 90.910 ng
RT: 6.487 min Scan# 74
Delta R.T. -0.018 min
Lab File: BF142197.D
Acq: 31 Mar 2025 23:25

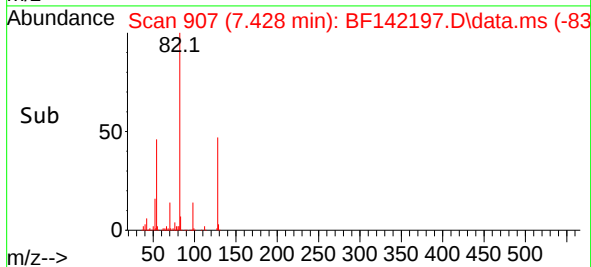
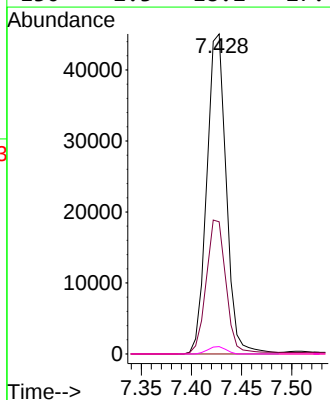
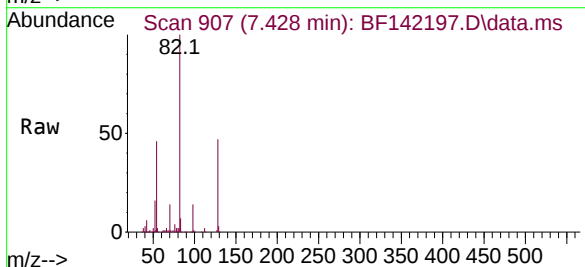
Instrument :
BNA_F
ClientSampleId :
72-11991

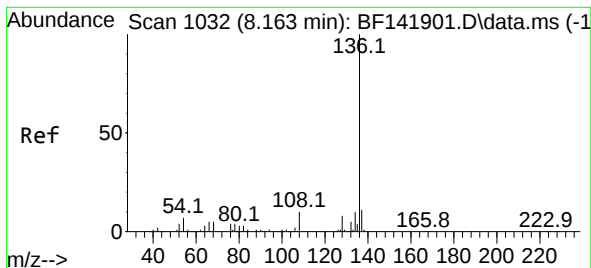
Tgt Ion: 99 Resp: 696973
Ion Ratio Lower Upper
99 100
42 16.9 14.6 21.8
71 38.4 30.8 46.2



#19
n-Nitroso-di-n-propylamine
Concen: 12.397 ng
RT: 7.428 min Scan# 907
Delta R.T. 0.129 min
Lab File: BF142197.D
Acq: 31 Mar 2025 23:25

Tgt Ion: 70 Resp: 61068
Ion Ratio Lower Upper
70 100
42 41.3 41.4 62.0#
101 0.0 8.2 12.2#
130 2.3 18.2 27.4#





#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.145 min Scan# 1

Delta R.T. -0.018 min

Lab File: BF142197.D

Acq: 31 Mar 2025 23:25

Instrument :

BNA_F

ClientSampleId :

72-11991

Tgt Ion:136 Resp: 360838

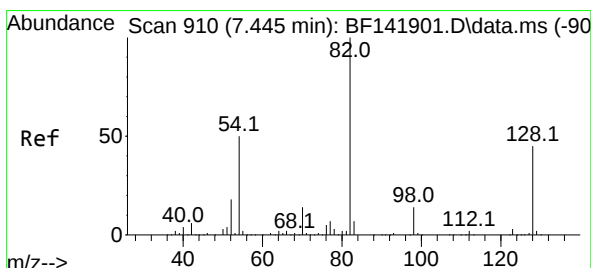
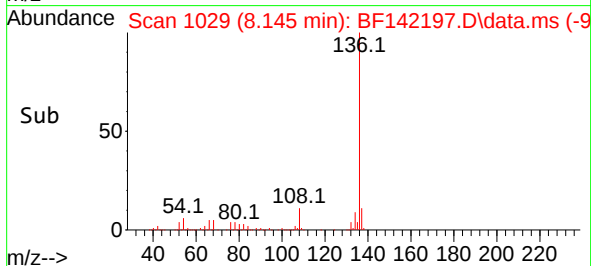
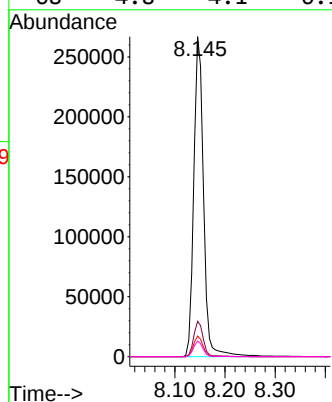
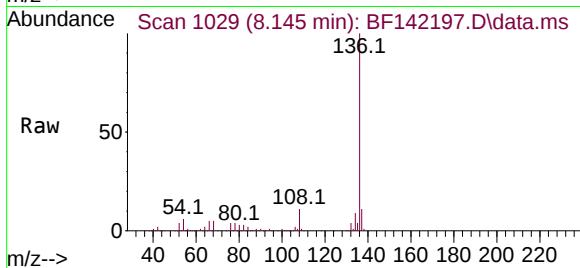
Ion Ratio Lower Upper

136 100

137 11.1 8.8 13.2

54 6.4 5.8 8.8

68 4.8 4.1 6.1



#23

Nitrobenzene-d5

Concen: 70.227 ng

RT: 7.428 min Scan# 907

Delta R.T. -0.018 min

Lab File: BF142197.D

Acq: 31 Mar 2025 23:25

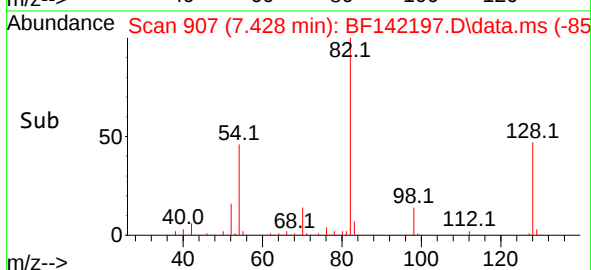
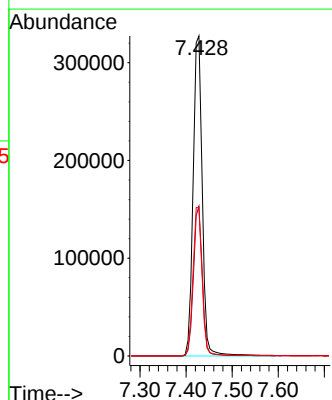
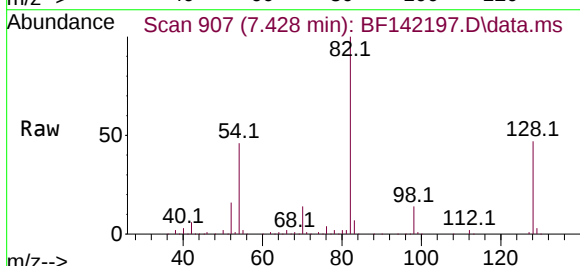
Tgt Ion: 82 Resp: 450291

Ion Ratio Lower Upper

82 100

128 46.8 36.0 54.0

54 46.4 39.6 59.4

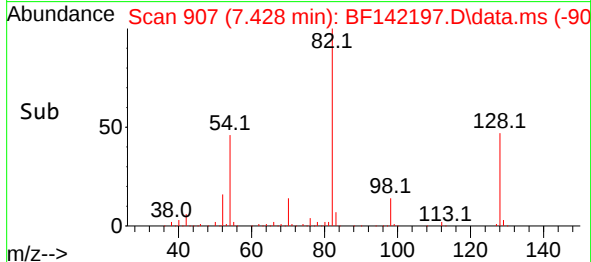
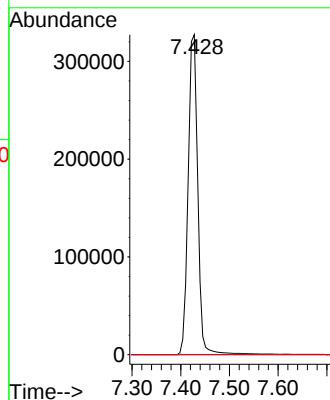
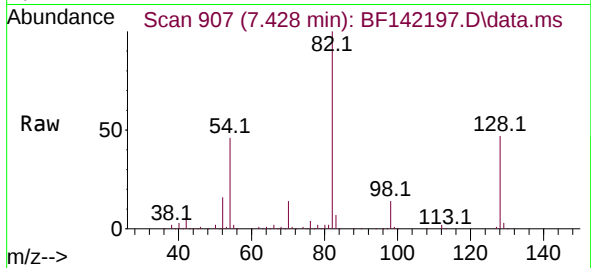




#25
Isophorone
Concen: 39.242 ng
RT: 7.428 min Scan# 90
Delta R.T. -0.276 min
Lab File: BF142197.D
Acq: 31 Mar 2025 23:25

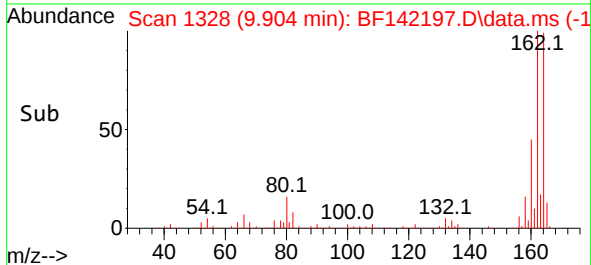
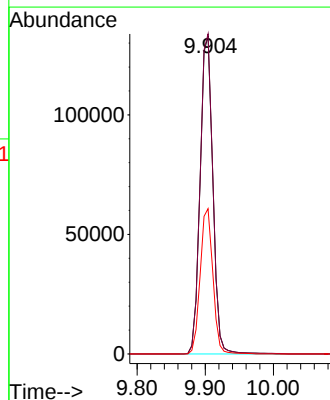
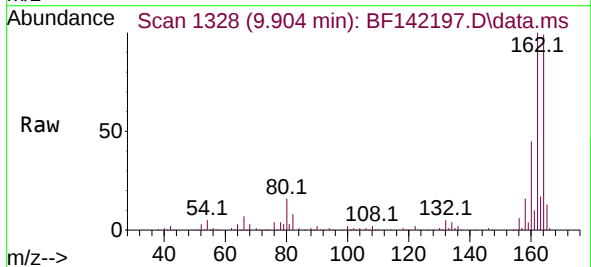
Instrument :
BNA_F
ClientSampleId :
72-11991

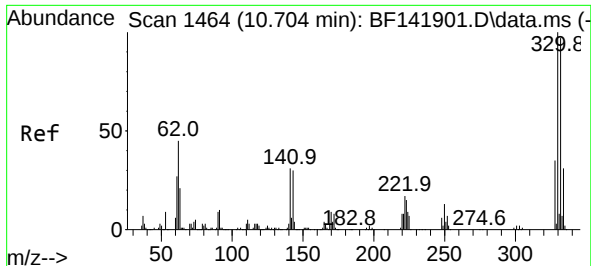
Tgt Ion: 82 Resp: 444773
Ion Ratio Lower Upper
82 100
95 0.0 6.4 9.6#
138 0.0 14.9 22.3#



#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.904 min Scan# 1328
Delta R.T. -0.012 min
Lab File: BF142197.D
Acq: 31 Mar 2025 23:25

Tgt Ion:164 Resp: 172508
Ion Ratio Lower Upper
164 100
162 100.6 81.8 122.6
160 45.7 36.7 55.1

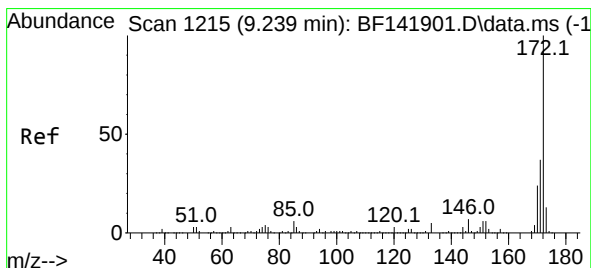
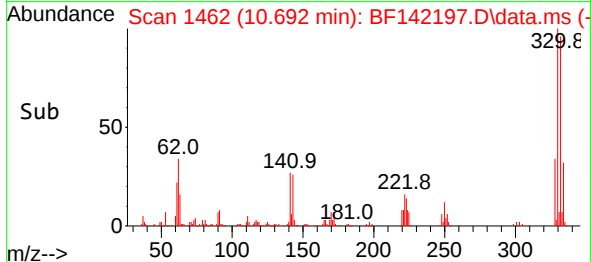
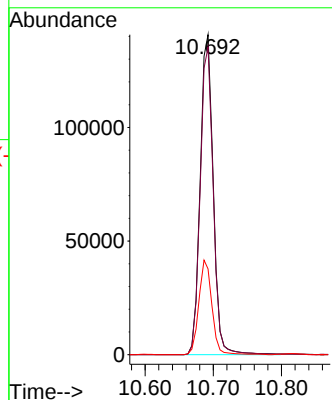
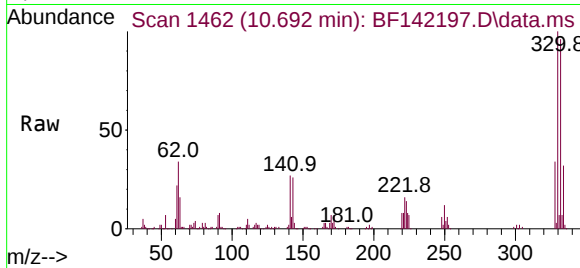




#42
 2,4,6-Tribromophenol
 Concen: 85.566 ng
 RT: 10.692 min Scan# 1462
 Delta R.T. -0.012 min
 Lab File: BF142197.D
 Acq: 31 Mar 2025 23:25

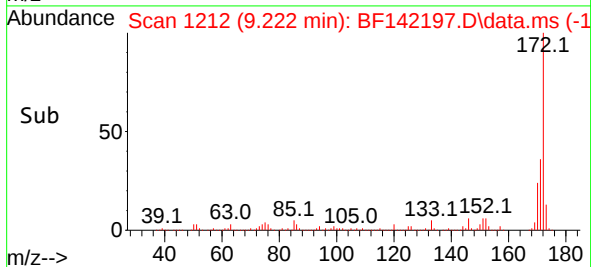
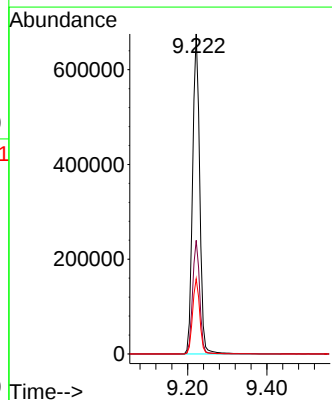
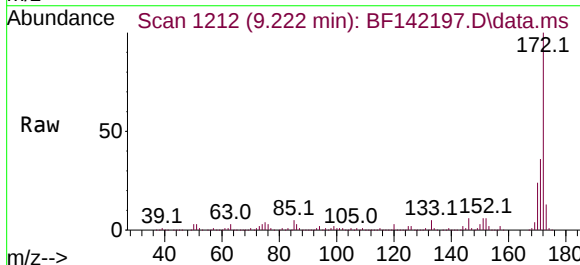
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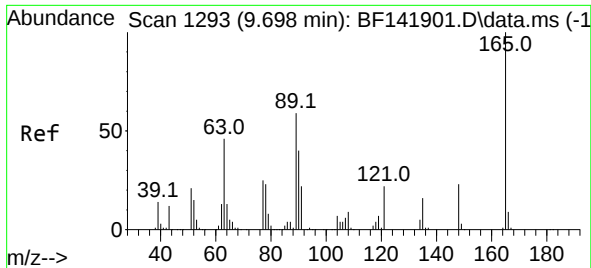
Tgt Ion:330 Resp: 187261
 Ion Ratio Lower Upper
 330 100
 332 96.6 77.6 116.4
 141 29.6 24.7 37.1



#45
 2-Fluorobiphenyl
 Concen: 74.802 ng
 RT: 9.222 min Scan# 1212
 Delta R.T. -0.018 min
 Lab File: BF142197.D
 Acq: 31 Mar 2025 23:25

Tgt Ion:172 Resp: 848490
 Ion Ratio Lower Upper
 172 100
 171 35.5 29.3 43.9
 170 23.5 19.4 29.0

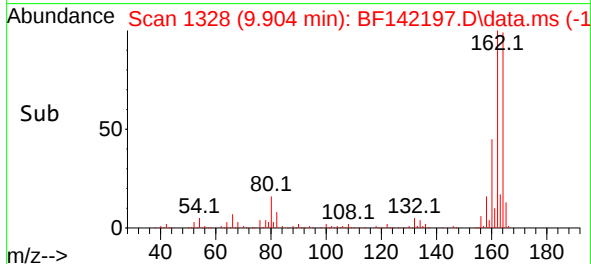
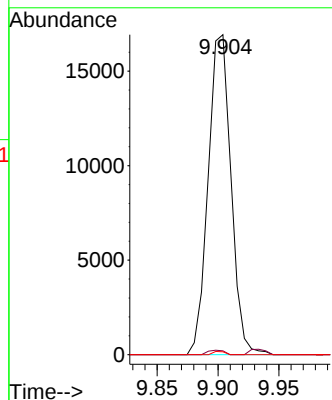
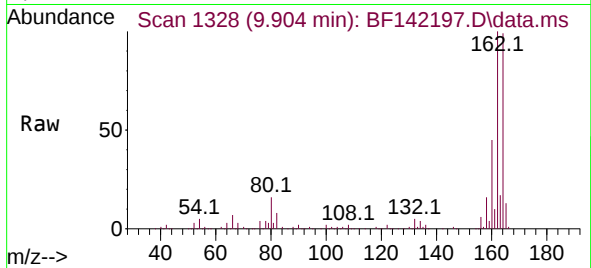




#51
2,6-Dinitrotoluene
Concen: 8.782 ng
RT: 9.904 min Scan# 11
Delta R.T. 0.206 min
Lab File: BF142197.D
Acq: 31 Mar 2025 23:25

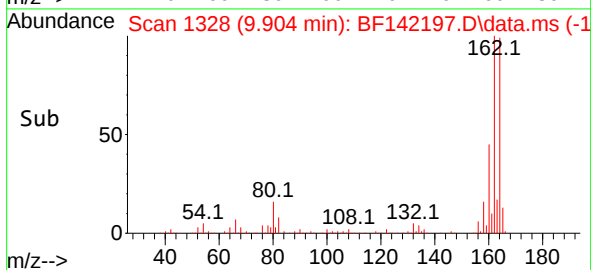
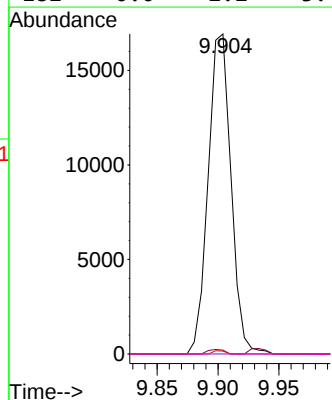
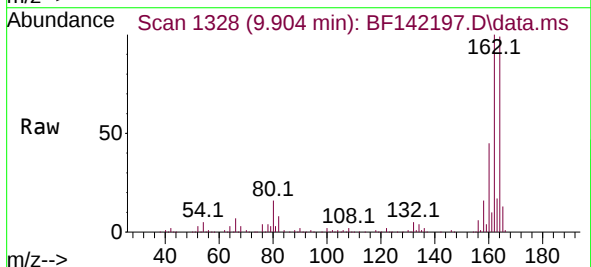
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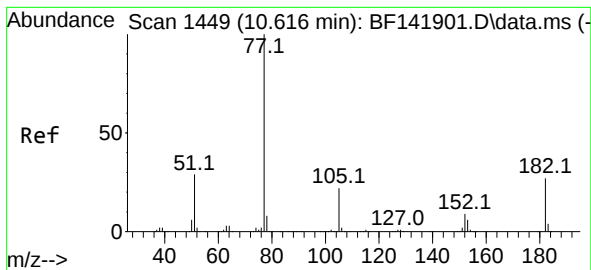
Tgt Ion:165 Resp: 22090
Ion Ratio Lower Upper
165 100
63 1.2 47.0 70.4#
89 0.9 47.4 71.2#



#57
2,4-Dinitrotoluene
Concen: 6.724 ng
RT: 9.904 min Scan# 1328
Delta R.T. -0.200 min
Lab File: BF142197.D
Acq: 31 Mar 2025 23:25

Tgt Ion:165 Resp: 22090
Ion Ratio Lower Upper
165 100
63 1.2 35.4 53.2#
89 0.9 56.6 84.8#
182 0.0 2.2 3.4#





#63

Azobenzene

Concen: 3.336 ng

RT: 10.616 min Scan# 1449

Delta R.T. 0.000 min

Lab File: BF142197.D

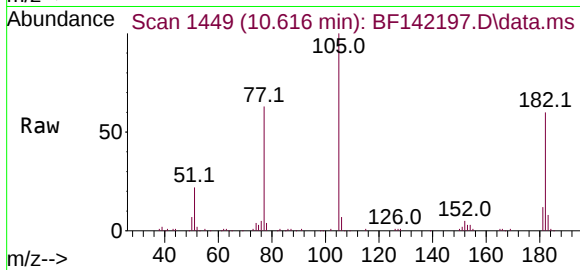
Acq: 31 Mar 2025 23:25

Instrument :

BNA_F

ClientSampleId :

72-11991



Tgt Ion: 77 Resp: 37357

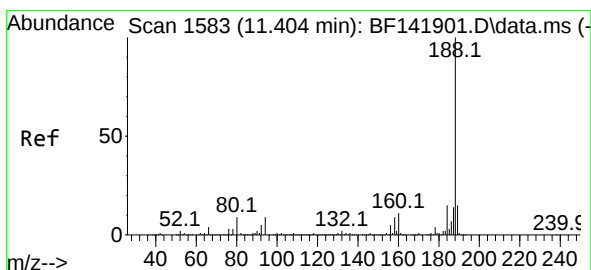
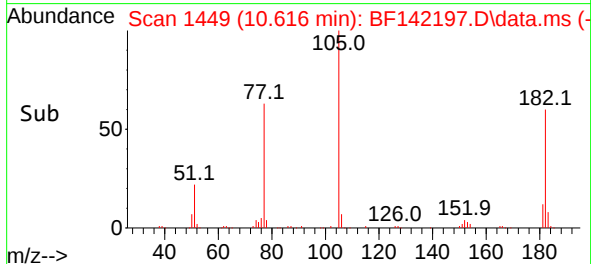
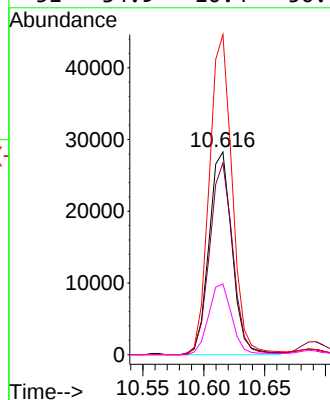
Ion Ratio Lower Upper

77 100

182 94.5 6.6 46.6#

105 157.9 1.3 41.3#

51 34.9 10.4 50.4



#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.386 min Scan# 1580

Delta R.T. -0.018 min

Lab File: BF142197.D

Acq: 31 Mar 2025 23:25

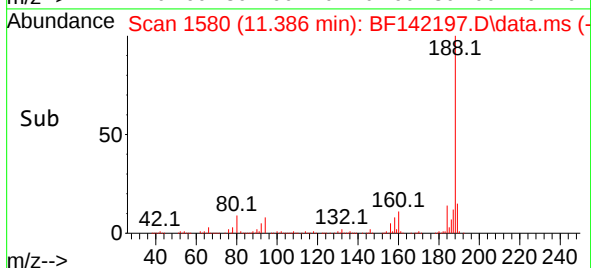
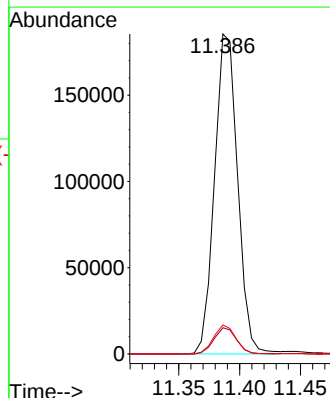
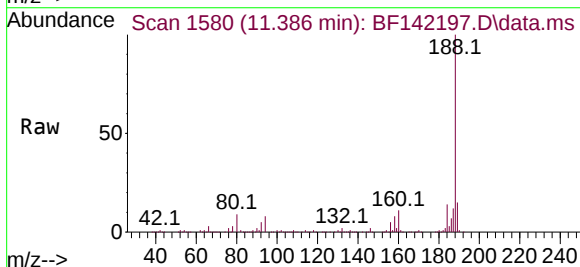
Tgt Ion:188 Resp: 244726

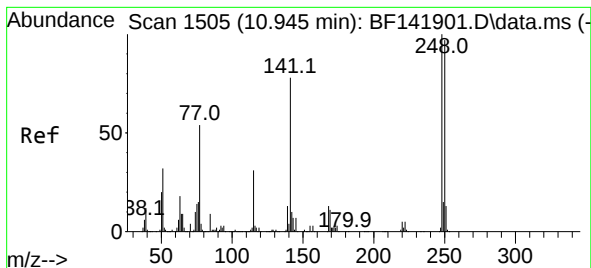
Ion Ratio Lower Upper

188 100

94 8.2 6.8 10.2

80 9.0 7.6 11.4

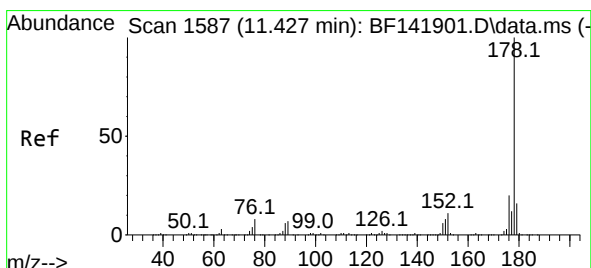
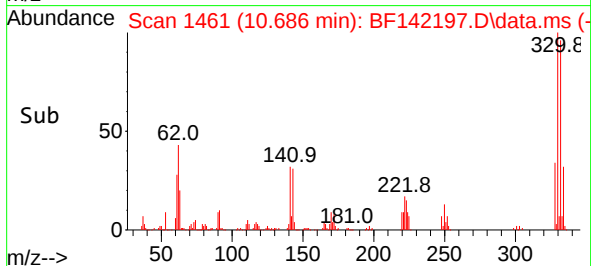
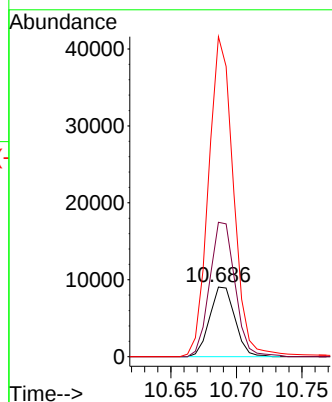
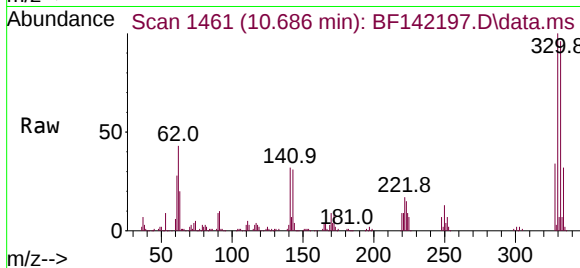




#67
4-Bromophenyl-phenylether
Concen: 3.954 ng
RT: 10.686 min Scan# 14
Delta R.T. -0.259 min
Lab File: BF142197.D
Acq: 31 Mar 2025 23:25

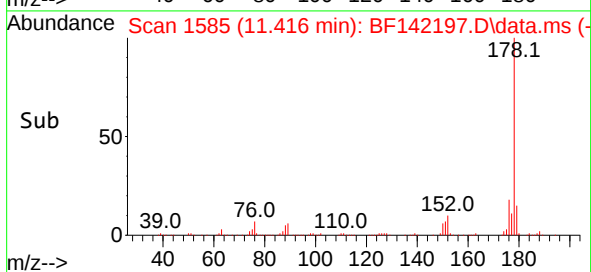
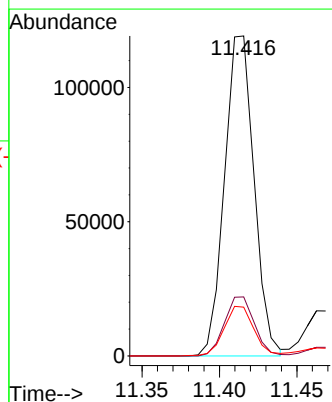
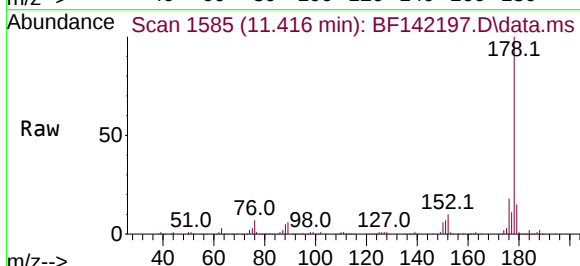
Instrument :
BNA_F
ClientSampleId :
72-11991

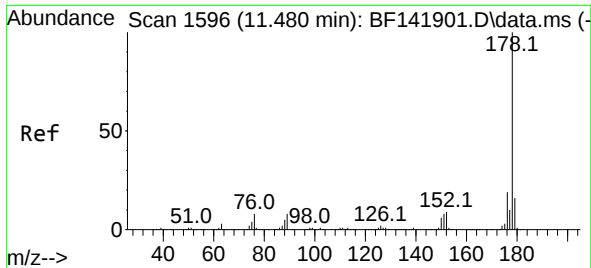
Tgt Ion:248 Resp: 12154
Ion Ratio Lower Upper
248 100
250 193.1 77.8 116.8#
141 459.8 62.6 93.8#



#71
Phenanthrene
Concen: 11.977 ng
RT: 11.416 min Scan# 1585
Delta R.T. -0.012 min
Lab File: BF142197.D
Acq: 31 Mar 2025 23:25

Tgt Ion:178 Resp: 158323
Ion Ratio Lower Upper
178 100
176 18.4 15.8 23.8
179 15.2 12.6 19.0



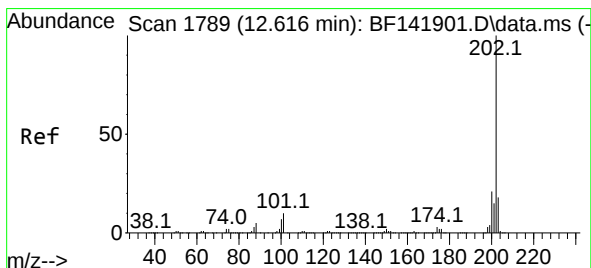
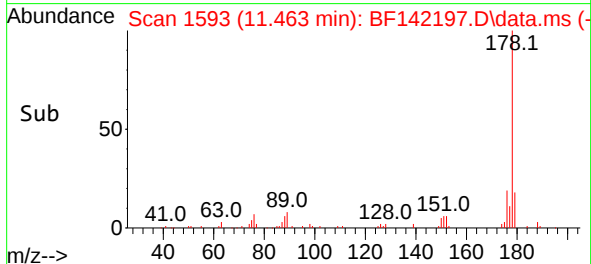
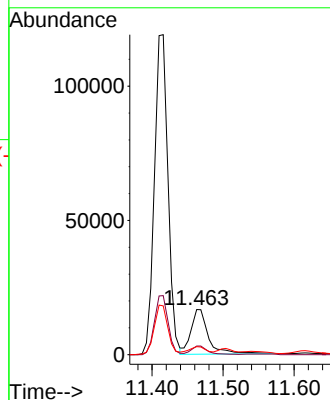
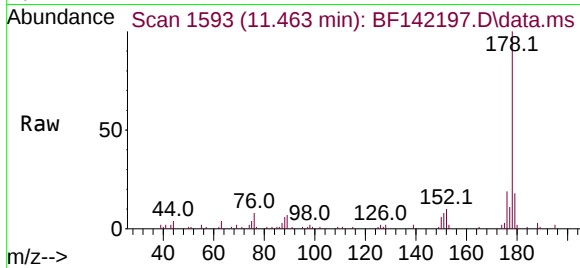


#72
Anthracene
Concen: 2.147 ng
RT: 11.463 min Scan# 1593
Delta R.T. -0.018 min
Lab File: BF142197.D
Acq: 31 Mar 2025 23:25

Instrument :
BNA_F
ClientSampleId :
72-11991

Tgt Ion:178 Resp: 28468

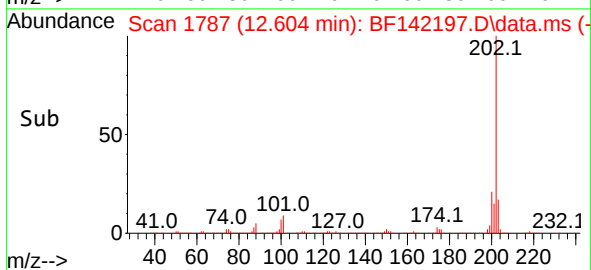
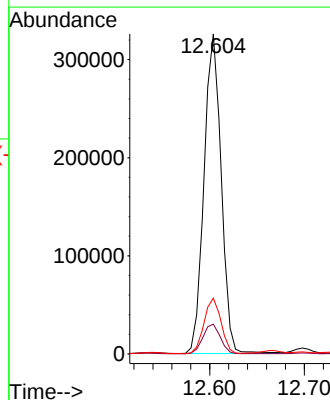
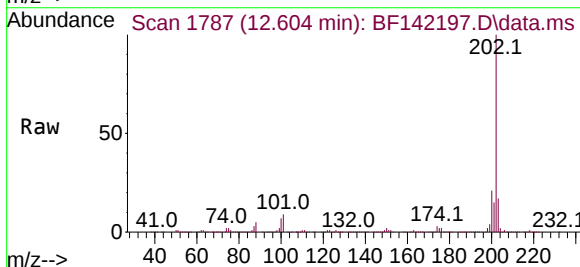
Ion	Ratio	Lower	Upper
178	100		
176	19.2	15.1	22.7
179	17.8	12.6	19.0

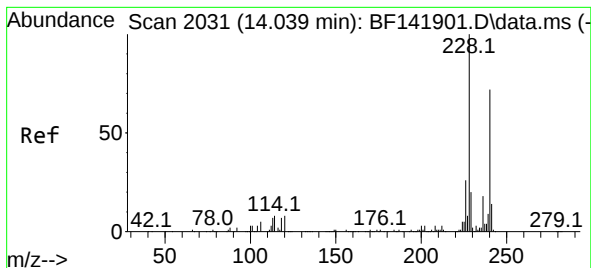


#75
Fluoranthene
Concen: 29.313 ng
RT: 12.604 min Scan# 1787
Delta R.T. -0.012 min
Lab File: BF142197.D
Acq: 31 Mar 2025 23:25

Tgt Ion:202 Resp: 411017

Ion	Ratio	Lower	Upper
202	100		
101	9.3	0.0	29.7
203	17.4	0.0	37.8





#76

Chrysene-d12

Concen: 20.000 ng

RT: 14.033 min Scan# 2031

Delta R.T. -0.006 min

Lab File: BF142197.D

Acq: 31 Mar 2025 23:25

Instrument :

BNA_F

ClientSampleId :

72-11991

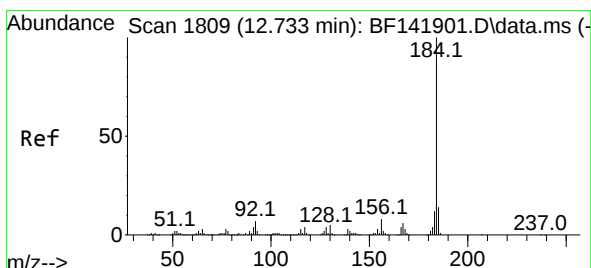
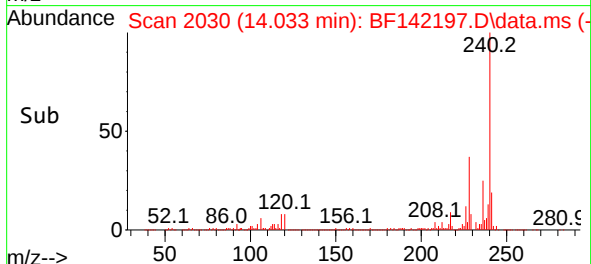
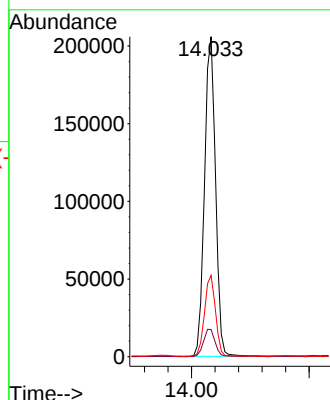
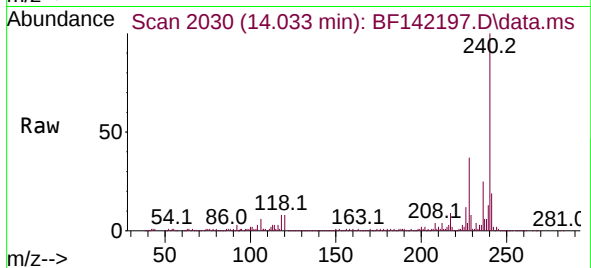
Tgt Ion:240 Resp: 268434

Ion Ratio Lower Upper

240 100

120 8.5 8.4 12.6

236 25.4 20.5 30.7



#77

Benzidine

Concen: 2.812 ng

RT: 12.974 min Scan# 1850

Delta R.T. 0.241 min

Lab File: BF142197.D

Acq: 31 Mar 2025 23:25

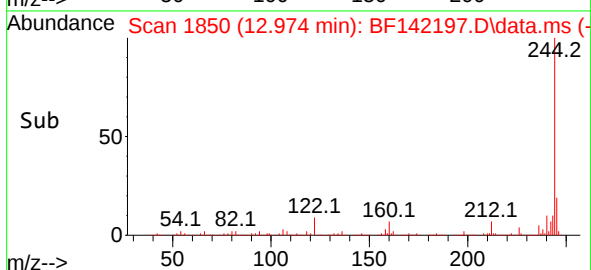
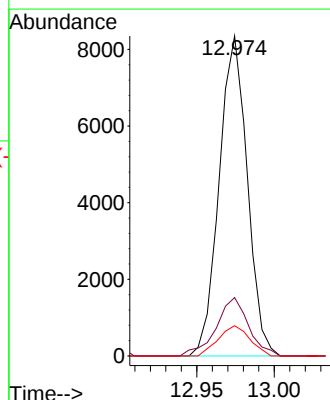
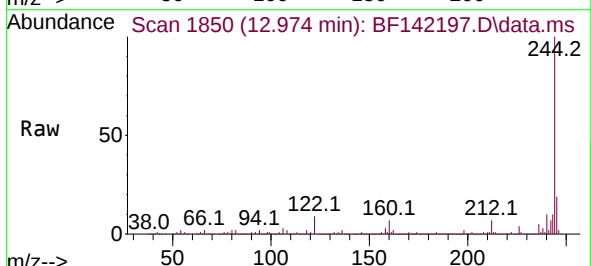
Tgt Ion:184 Resp: 10532

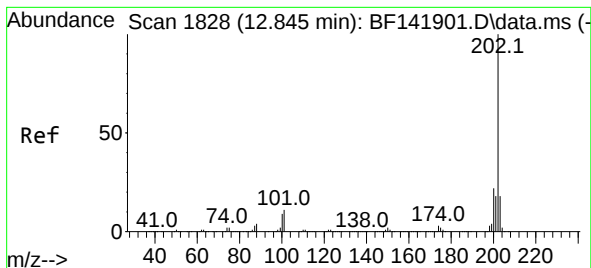
Ion Ratio Lower Upper

184 100

185 18.3 11.5 17.3#

183 9.5 9.7 14.5#





#78

Pyrene

Concen: 16.394 ng

RT: 12.833 min Scan# 1826

Delta R.T. -0.012 min

Lab File: BF142197.D

Acq: 31 Mar 2025 23:25

Instrument :

BNA_F

ClientSampleId :

72-11991

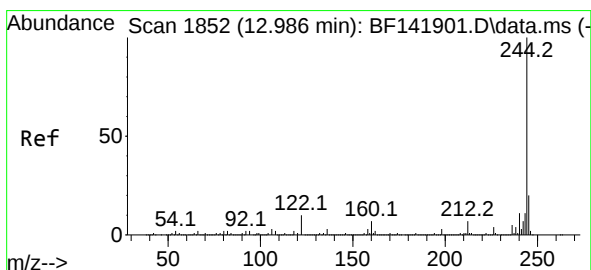
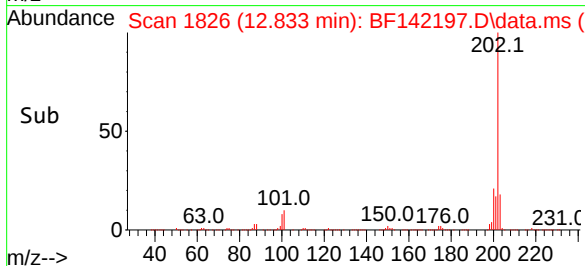
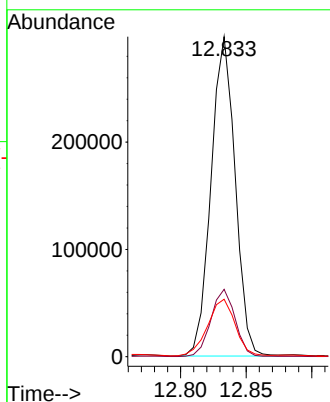
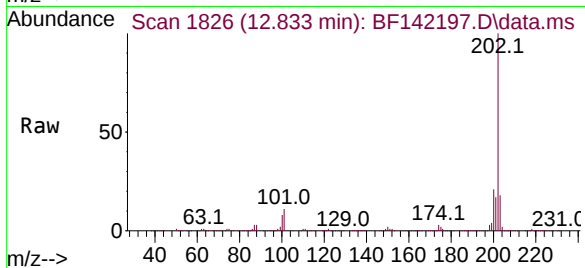
Tgt Ion:202 Resp: 380664

Ion Ratio Lower Upper

202 100

200 21.0 17.3 25.9

203 18.0 14.4 21.6



#79

Terphenyl-d14

Concen: 43.102 ng

RT: 12.974 min Scan# 1850

Delta R.T. -0.012 min

Lab File: BF142197.D

Acq: 31 Mar 2025 23:25

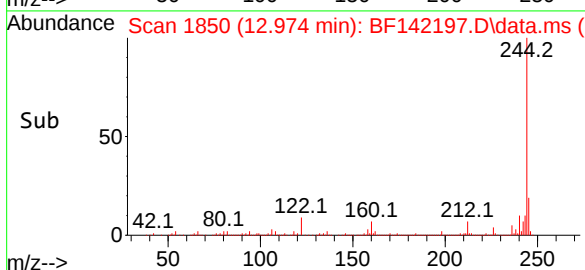
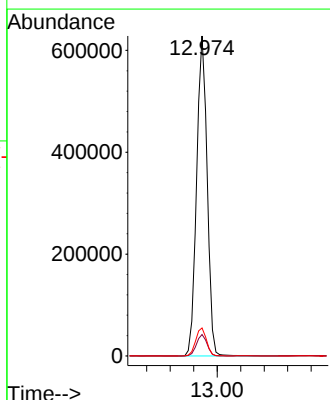
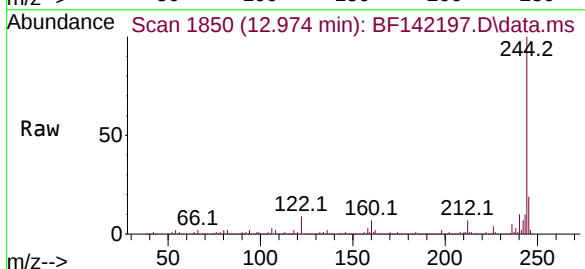
Tgt Ion:244 Resp: 782576

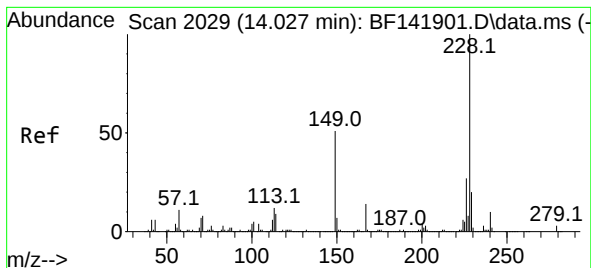
Ion Ratio Lower Upper

244 100

212 6.7 6.0 9.0

122 8.8 7.7 11.5





#81

Benzo(a)anthracene

Concen: 12.652 ng

RT: 14.021 min Scan# 2029

Delta R.T. -0.006 min

Lab File: BF142197.D

Acq: 31 Mar 2025 23:25

Instrument :

BNA_F

ClientSampleId :

72-11991

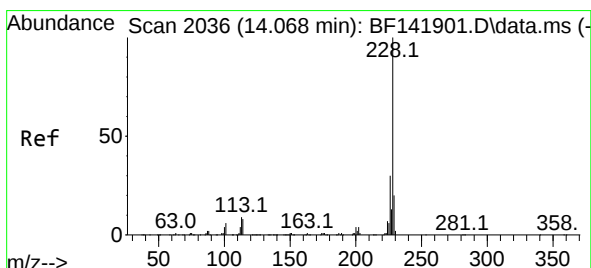
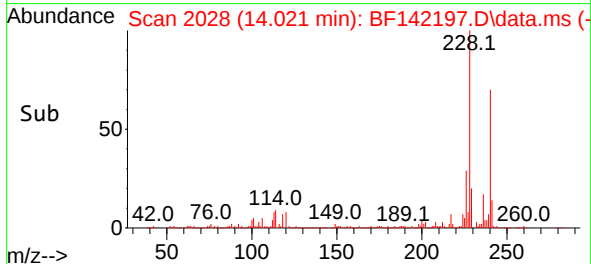
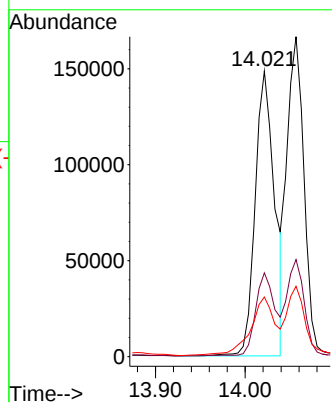
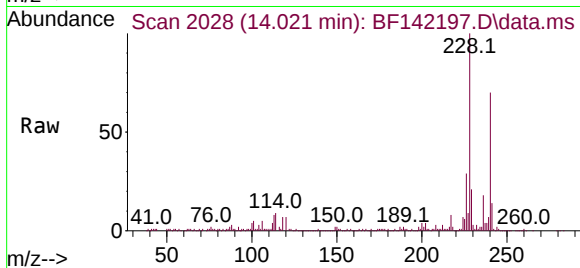
Tgt Ion:228 Resp: 222864

Ion Ratio Lower Upper

228 100

226 29.3 21.8 32.8

229 20.9 16.0 24.0



#83

Chrysene

Concen: 13.654 ng

RT: 14.057 min Scan# 2034

Delta R.T. -0.012 min

Lab File: BF142197.D

Acq: 31 Mar 2025 23:25

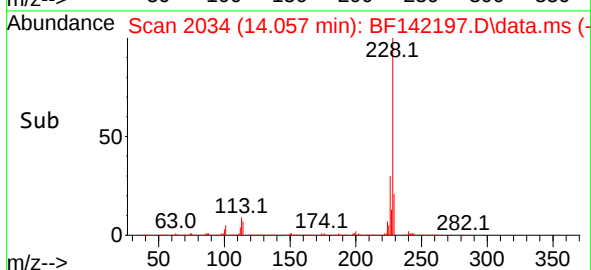
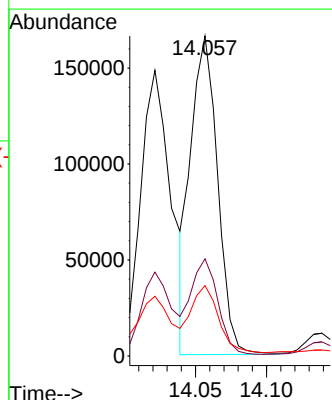
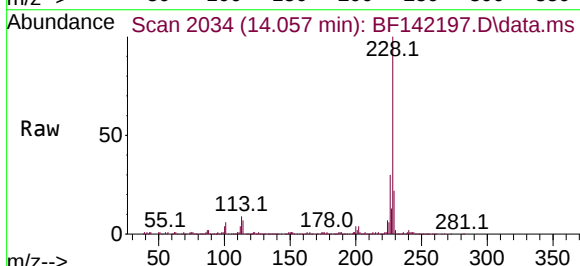
Tgt Ion:228 Resp: 218023

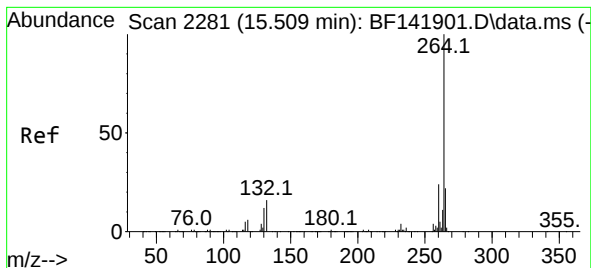
Ion Ratio Lower Upper

228 100

226 30.3 24.1 36.1

229 22.0 15.7 23.5





#86

Perylene-d12

Concen: 20.000 ng

RT: 15.509 min Scan# 21

Delta R.T. 0.000 min

Lab File: BF142197.D

Acq: 31 Mar 2025 23:25

Instrument :

BNA_F

ClientSampleId :

72-11991

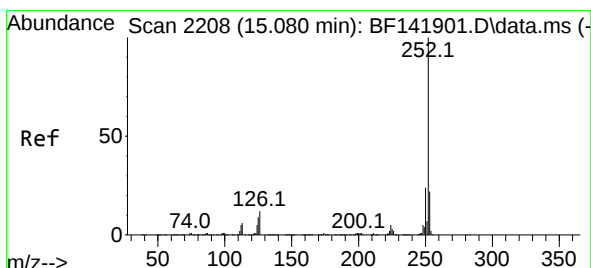
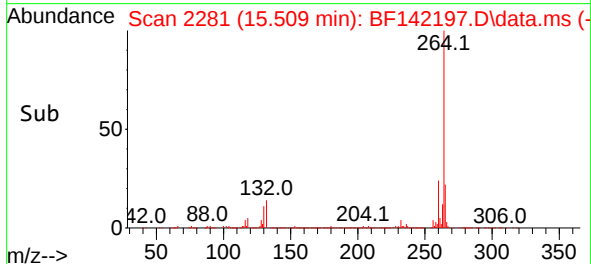
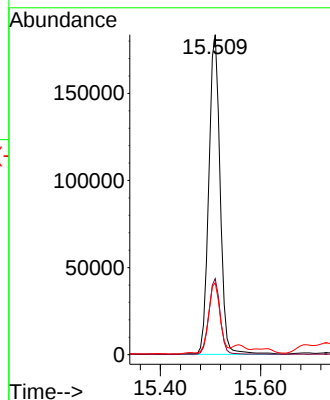
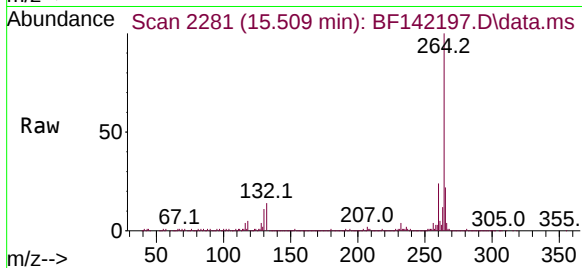
Tgt Ion:264 Resp: 288019

Ion Ratio Lower Upper

264 100

260 23.7 19.1 28.7

265 22.5 17.5 26.3



#88

Benzo(b)fluoranthene

Concen: 21.768 ng

RT: 15.074 min Scan# 2207

Delta R.T. -0.006 min

Lab File: BF142197.D

Acq: 31 Mar 2025 23:25

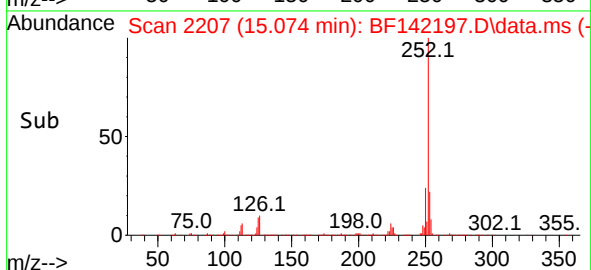
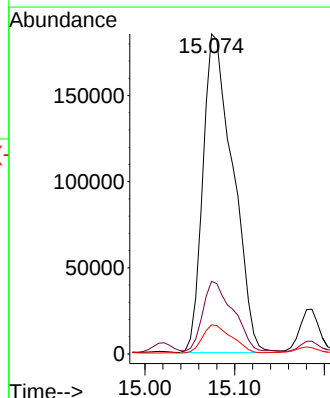
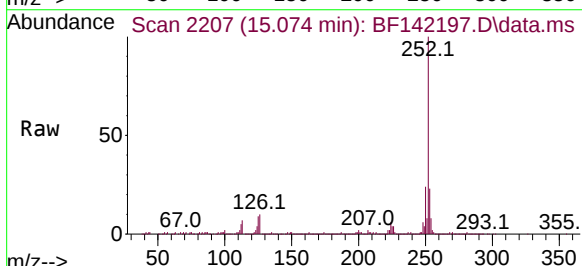
Tgt Ion:252 Resp: 429695

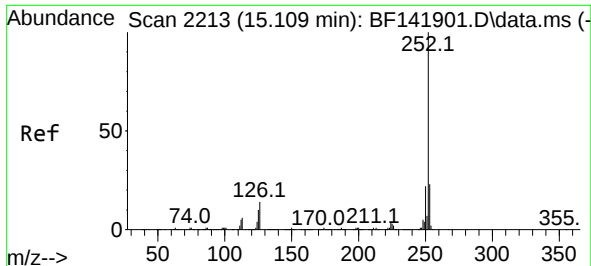
Ion Ratio Lower Upper

252 100

253 22.7 17.5 26.3

125 9.1 7.0 10.4





#89

Benzo(k)fluoranthene

Concen: 25.437 ng

RT: 15.074 min Scan# 21

Delta R.T. -0.035 min

Lab File: BF142197.D

Acq: 31 Mar 2025 23:25

Instrument :

BNA_F

ClientSampleId :

72-11991

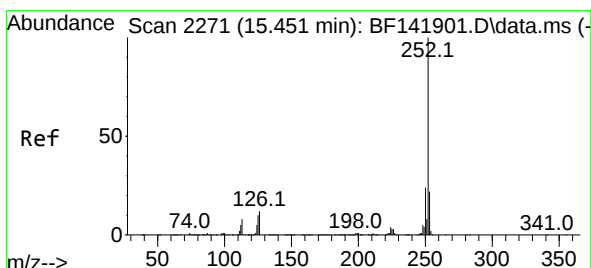
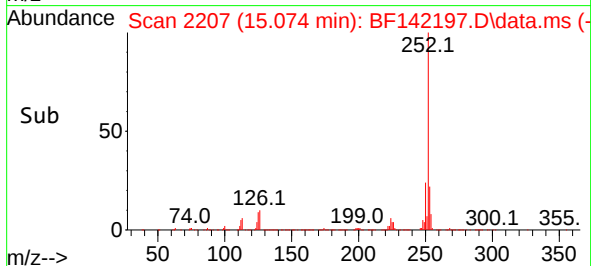
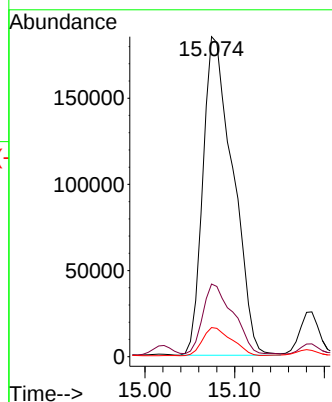
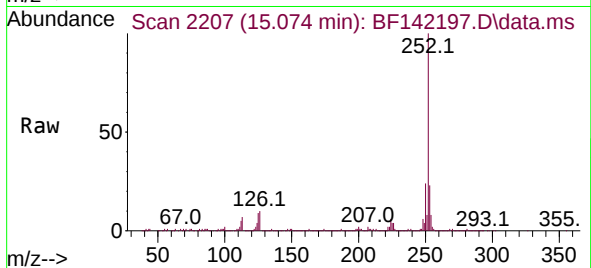
Tgt Ion:252 Resp: 429695

Ion Ratio Lower Upper

252 100

253 22.7 17.7 26.5

125 9.1 7.2 10.8



#90

Benzo(a)pyrene

Concen: 12.988 ng

RT: 15.445 min Scan# 2270

Delta R.T. -0.006 min

Lab File: BF142197.D

Acq: 31 Mar 2025 23:25

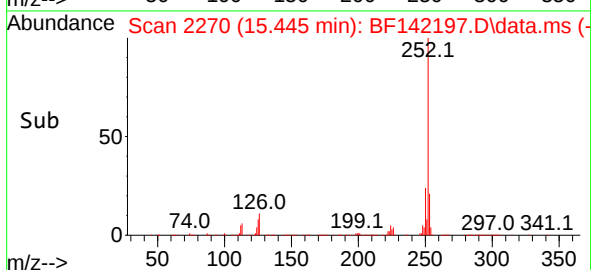
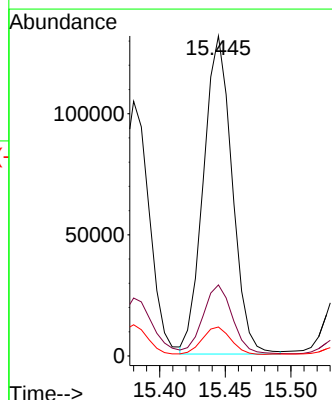
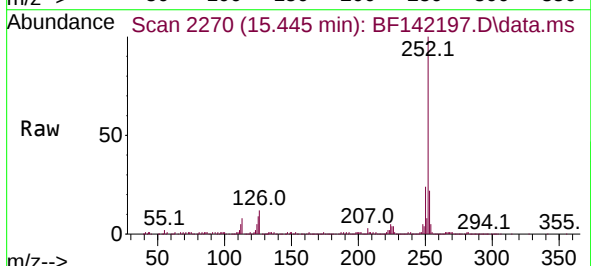
Tgt Ion:252 Resp: 200613

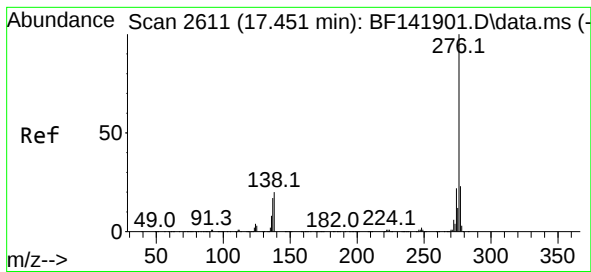
Ion Ratio Lower Upper

252 100

253 22.2 17.4 26.0

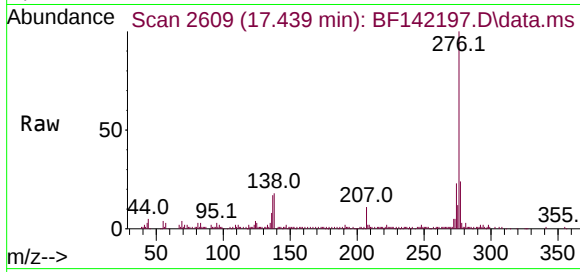
125 9.0 7.8 11.8





#92
 Benzo(g,h,i)perylene
 Concen: 5.917 ng
 RT: 17.439 min Scan# 20
 Delta R.T. -0.012 min
 Lab File: BF142197.D
 Acq: 31 Mar 2025 23:25

Instrument :
 BNA_F
 ClientSampleId :
 72-11991



Tgt Ion: 276 Resp: 89881

Ion	Ratio	Lower	Upper
276	100		
277	24.0	18.7	28.1
138	18.2	15.8	23.8

