

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF082523\
 Data File : BF134945.D
 Acq On : 25 Aug 2023 17:29
 Operator : CG\JU
 Sample : 04110-15
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 TP-22(3-4)

Quant Time: Aug 25 19:57:35 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF082223.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Aug 22 19:33:25 2023
 Response via : Initial Calibration

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

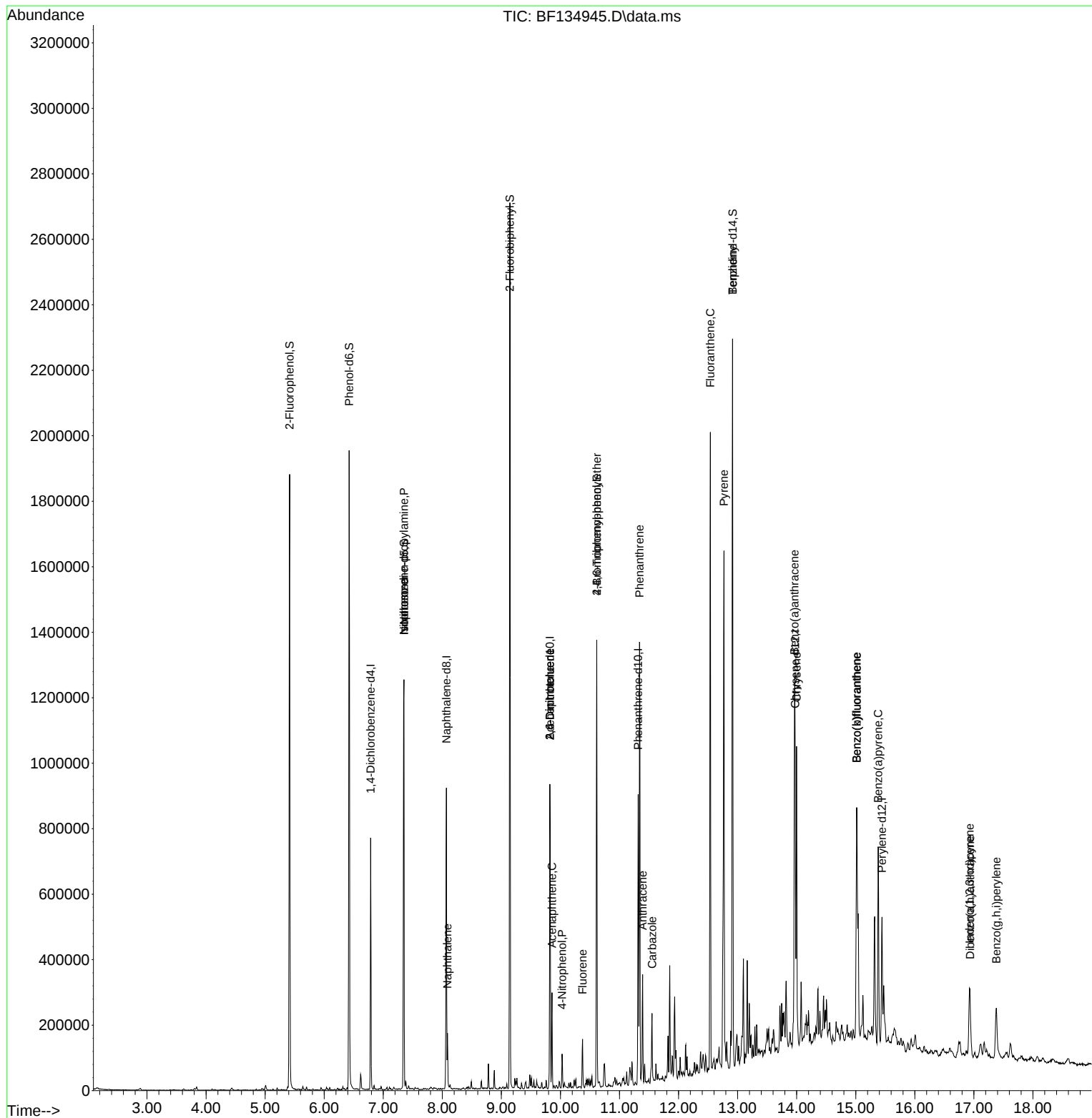
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.787	152	97879	20.000	ng	0.00
21) Naphthalene-d8	8.069	136	375629	20.000	ng	0.00
39) Acenaphthene-d10	9.822	164	178456	20.000	ng	-0.01
64) Phenanthrene-d10	11.316	188	313179	20.000	ng	-0.01
76) Chrysene-d12	13.974	240	194671	20.000	ng	0.00
86) Perylene-d12	15.445	264	169640	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.416	112	500379	81.522	ng	0.00
7) Phenol-d6	6.422	99	639063	81.480	ng	-0.02
23) Nitrobenzene-d5	7.351	82	397452	58.305	ng	-0.01
42) 2,4,6-Tribromophenol	10.616	330	147258	70.064	ng	-0.01
45) 2-Fluorobiphenyl	9.145	172	739579	64.067	ng	-0.01
79) Terphenyl-d14	12.916	244	735866	51.991	ng	0.00
Target Compounds						Qvalue
19) n-Nitroso-di-n-propyla...	7.351	70	53503	11.680	ng	# 76
20) 3+4-Methylphenols	7.204	107	242	Below Cal		# 38
25) Isophorone	7.351	82	393857	30.942	ng	# 64
31) Naphthalene	8.086	128	60095	3.204	ng	100
51) 2,6-Dinitrotoluene	9.822	165	23724	8.468	ng	# 29
52) Acenaphthene	9.857	154	55469	5.434	ng	98
56) 4-Nitrophenol	10.028	139	11969	5.613	ng	# 9
57) 2,4-Dinitrotoluene	9.822	165	23724	6.847	ng	# 25
58) Fluorene	10.375	166	35819	3.178	ng	100
67) 4-Bromophenyl-phenylether	10.616	248	9744	2.697	ng	# 1
71) Phenanthrene	11.339	178	494598	30.138	ng	100
72) Anthracene	11.392	178	114088	6.785	ng	97
73) Carbazole	11.551	167	75003	5.413	ng	99
75) Fluoranthene	12.539	202	752075	48.366	ng	99
77) Benzidine	12.916	184	10192	3.227	ng	# 93
78) Pyrene	12.769	202	653525	31.663	ng	100
81) Benzo(a)anthracene	13.963	228	374220	28.175	ng	98
83) Chrysene	13.998	228	326777	24.936	ng	97
87) Indeno(1,2,3-cd)pyrene	16.927	276	141447	11.665	ng	98
88) Benzo(b)fluoranthene	15.015	252	543909	56.829	ng	99
89) Benzo(k)fluoranthene	15.015	252	543909	57.872	ng	97
90) Benzo(a)pyrene	15.380	252	280564	29.364	ng	99
91) Dibenzo(a,h)anthracene	16.939	278	41427	4.222	ng	95
92) Benzo(g,h,i)perylene	17.380	276	140995	14.038	ng	98

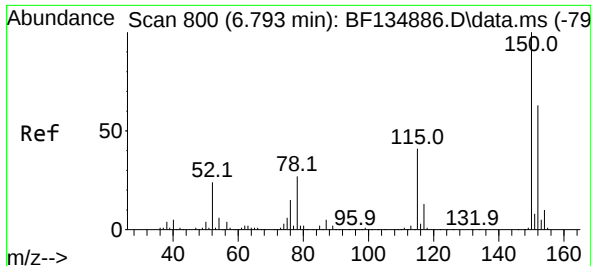
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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TP-22(3-4)

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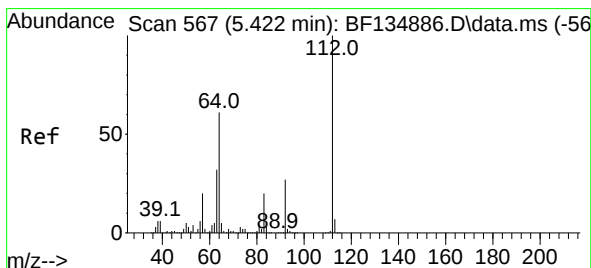
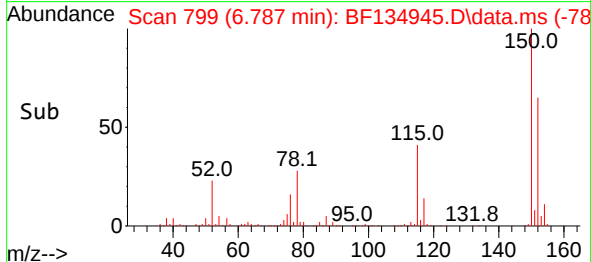
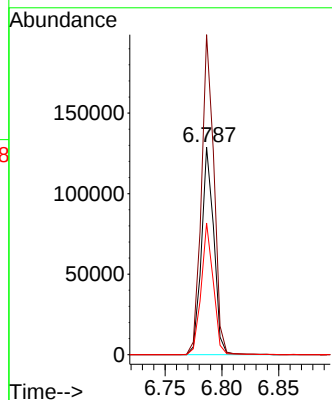
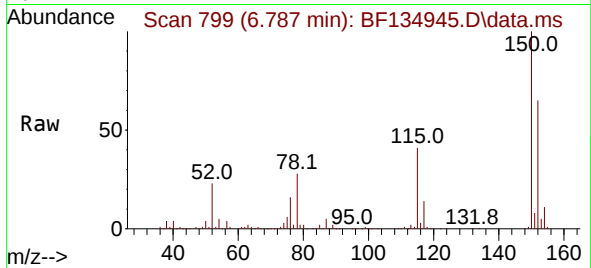




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.787 min Scan# 79
Delta R.T. -0.006 min
Lab File: BF134945.D
Acq: 25 Aug 2023 17:29

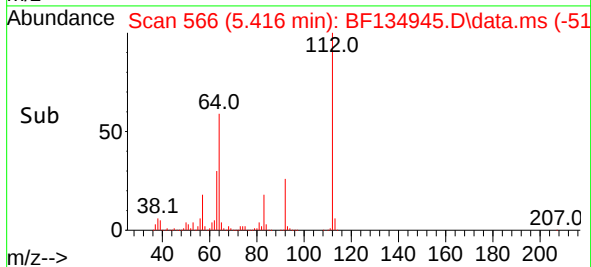
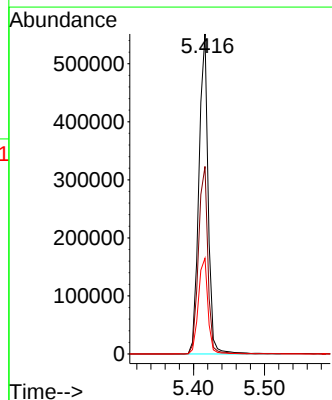
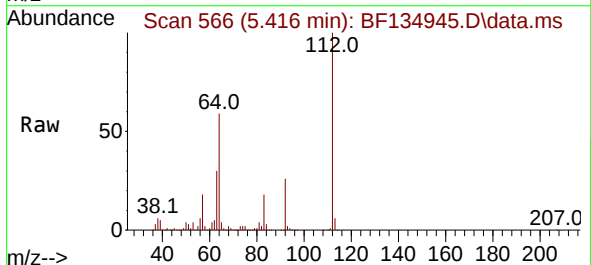
Instrument :
BNA_F
ClientSampleId :
TP-22(3-4)

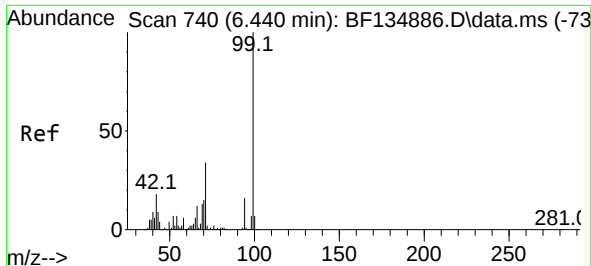
Tgt Ion:152 Resp: 97879
Ion Ratio Lower Upper
152 100
150 154.2 126.1 189.1
115 63.4 51.1 76.7



#5
2-Fluorophenol
Concen: 81.522 ng
RT: 5.416 min Scan# 566
Delta R.T. -0.006 min
Lab File: BF134945.D
Acq: 25 Aug 2023 17:29

Tgt Ion:112 Resp: 500379
Ion Ratio Lower Upper
112 100
64 58.6 48.6 73.0
63 29.9 25.7 38.5





#7
Phenol-d6
Concen: 81.480 ng
RT: 6.422 min Scan# 71
Delta R.T. -0.018 min
Lab File: BF134945.D
Acq: 25 Aug 2023 17:29

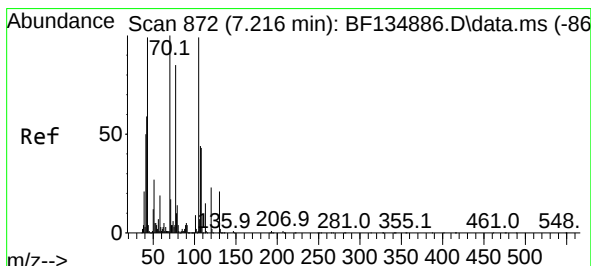
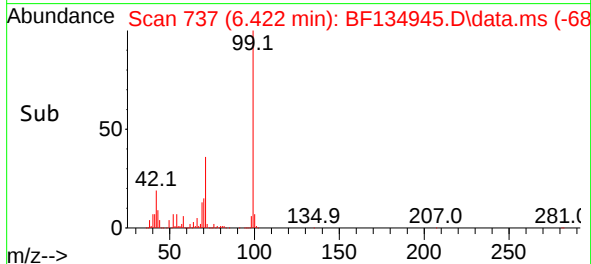
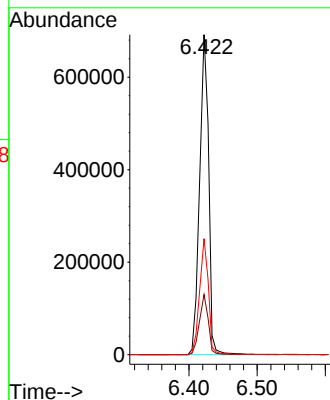
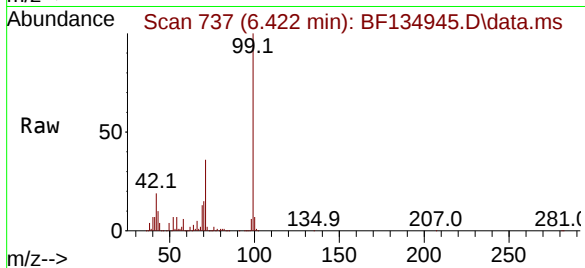
Instrument :

BNA_F

ClientSampleId :

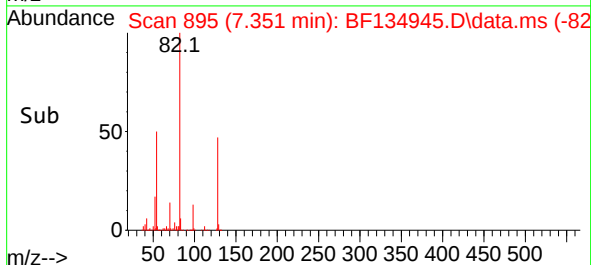
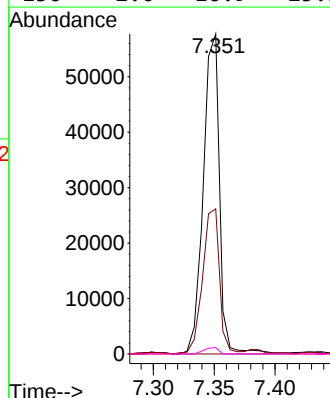
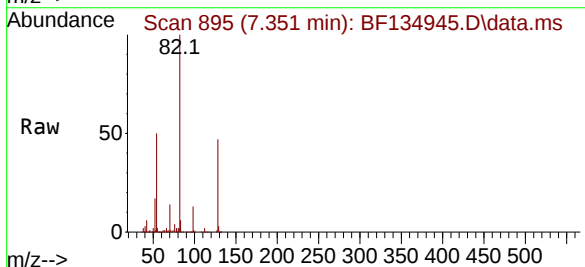
TP-22(3-4)

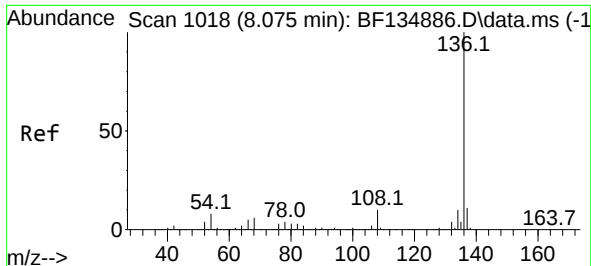
Tgt Ion: 99 Resp: 639063
Ion Ratio Lower Upper
99 100
42 18.8 14.6 22.0
71 36.3 27.6 41.4



#19
n-Nitroso-di-n-propylamine
Concen: 11.680 ng
RT: 7.351 min Scan# 895
Delta R.T. 0.135 min
Lab File: BF134945.D
Acq: 25 Aug 2023 17:29

Tgt Ion: 70 Resp: 53503
Ion Ratio Lower Upper
70 100
42 45.4 46.9 70.3#
101 0.0 7.5 11.3#
130 2.0 16.9 25.3#

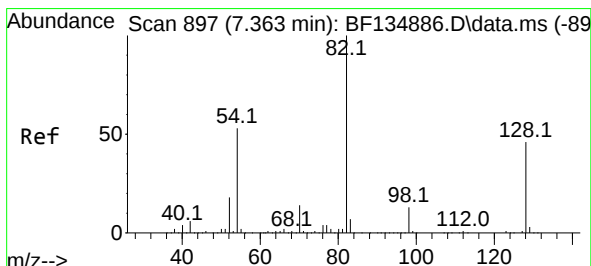
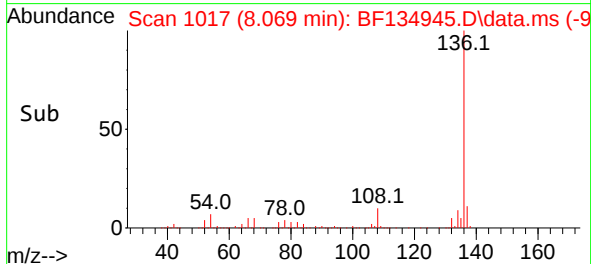
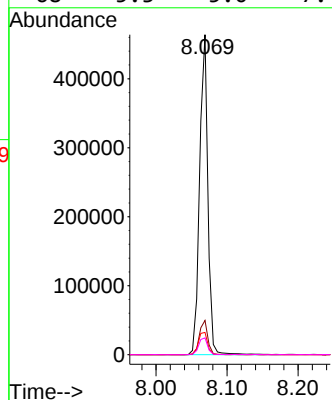
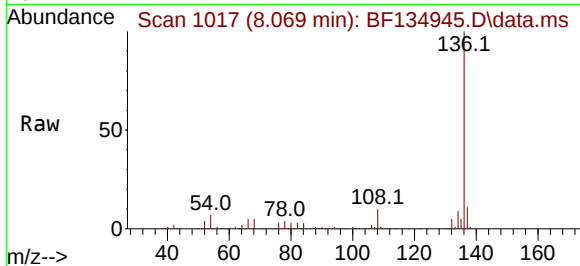




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.069 min Scan# 1017
Delta R.T. -0.006 min
Lab File: BF134945.D
Acq: 25 Aug 2023 17:29

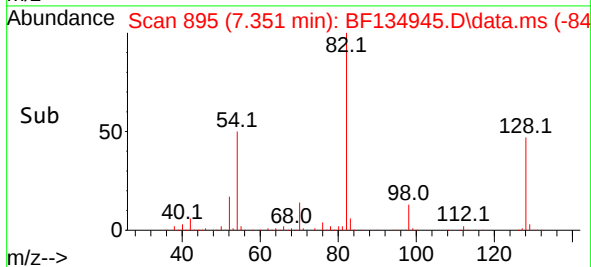
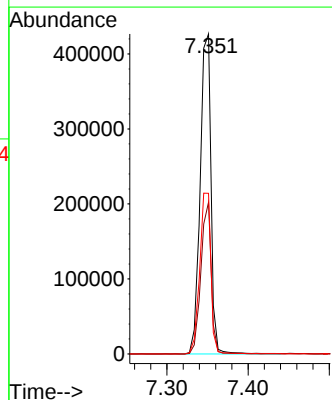
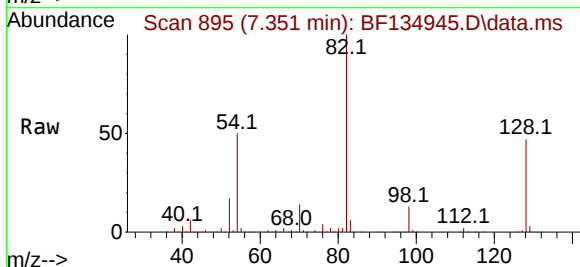
Instrument :
BNA_F
ClientSampleId :
TP-22(3-4)

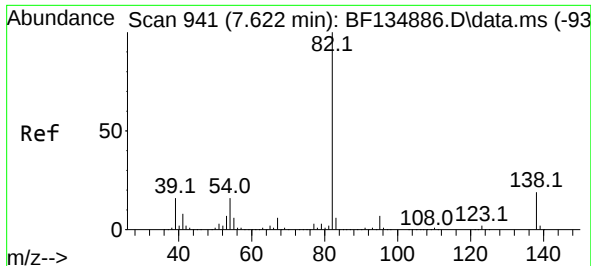
Tgt Ion:	136	Resp:	375629
Ion	Ratio	Lower	Upper
136	100		
137	10.7	8.9	13.3
54	7.0	6.6	9.8
68	5.3	5.0	7.4



#23
Nitrobenzene-d5
Concen: 58.305 ng
RT: 7.351 min Scan# 895
Delta R.T. -0.012 min
Lab File: BF134945.D
Acq: 25 Aug 2023 17:29

Tgt Ion:	82	Resp:	397452
Ion	Ratio	Lower	Upper
82	100		
128	47.4	36.6	54.8
54	50.2	42.6	63.8

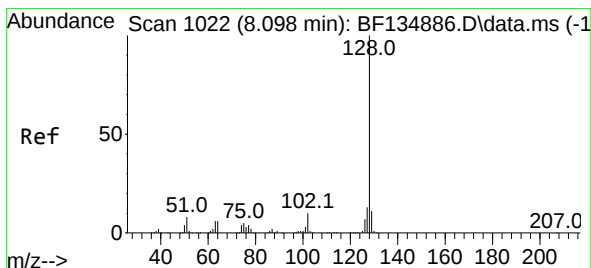
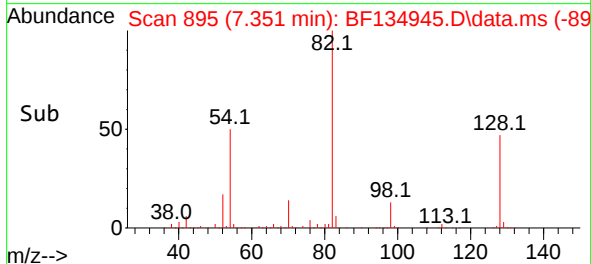
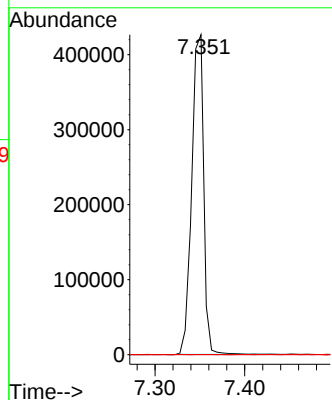
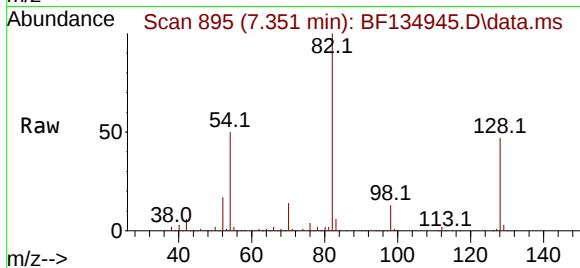




#25
Isophorone
Concen: 30.942 ng
RT: 7.351 min Scan# 895
Delta R.T. -0.271 min
Lab File: BF134945.D
Acq: 25 Aug 2023 17:29

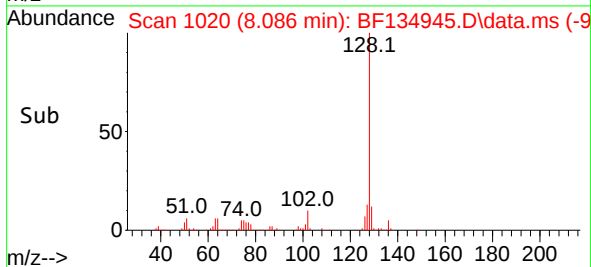
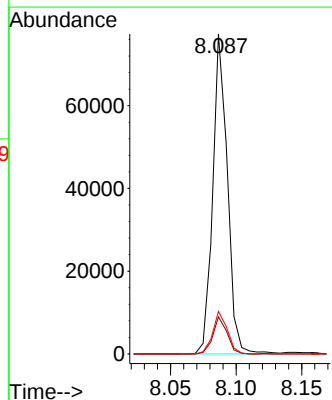
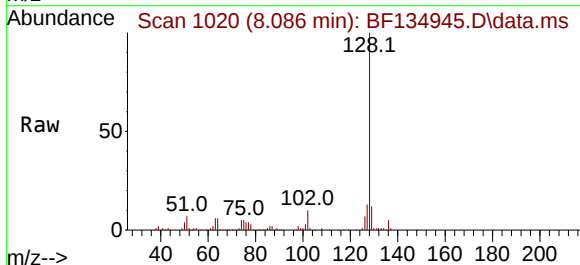
Instrument :
BNA_F
ClientSampleId :
TP-22(3-4)

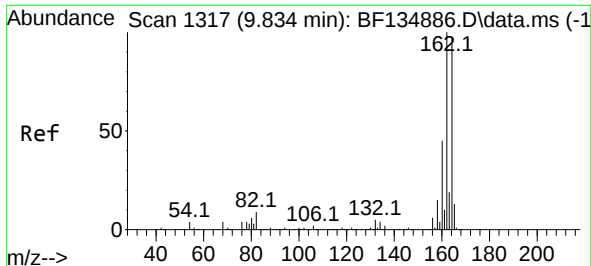
Tgt Ion: 82 Resp: 393857
Ion Ratio Lower Upper
82 100
95 0.1 5.9 8.9#
138 0.0 14.9 22.3#



#31
Naphthalene
Concen: 3.204 ng
RT: 8.086 min Scan# 1020
Delta R.T. -0.012 min
Lab File: BF134945.D
Acq: 25 Aug 2023 17:29

Tgt Ion: 128 Resp: 60095
Ion Ratio Lower Upper
128 100
129 11.6 9.0 13.4
127 13.3 10.6 16.0

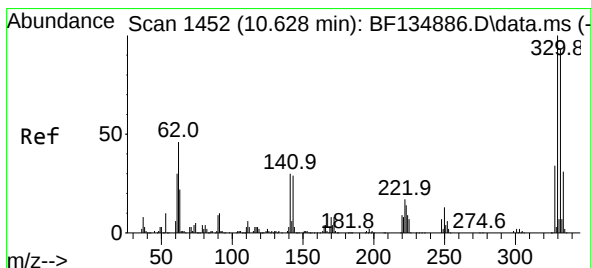
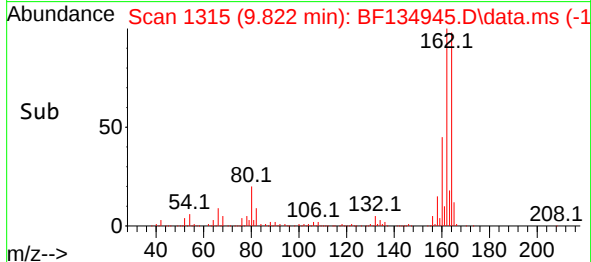
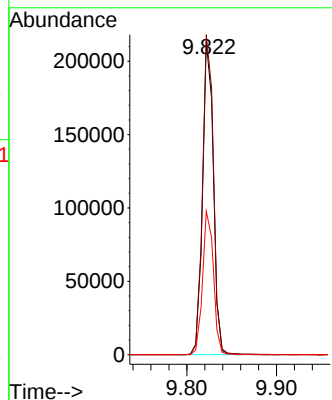
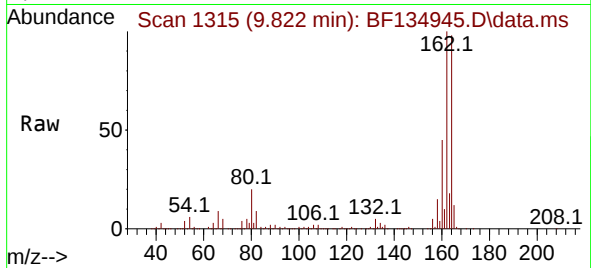




#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.822 min Scan# 11
Delta R.T. -0.012 min
Lab File: BF134945.D
Acq: 25 Aug 2023 17:29

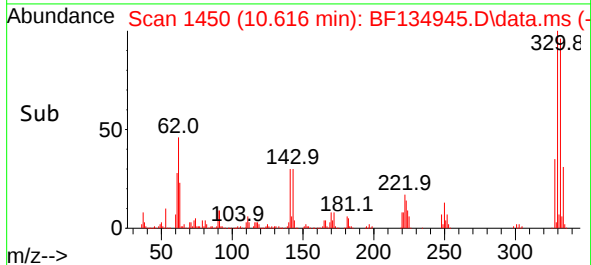
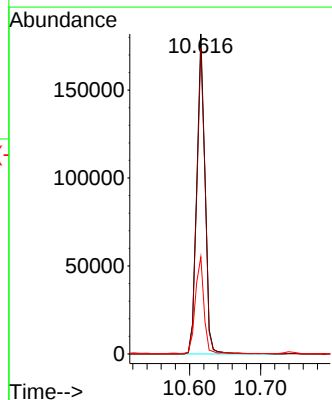
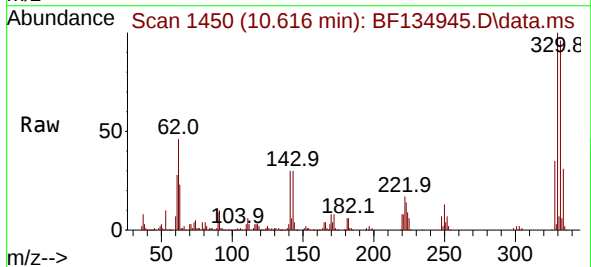
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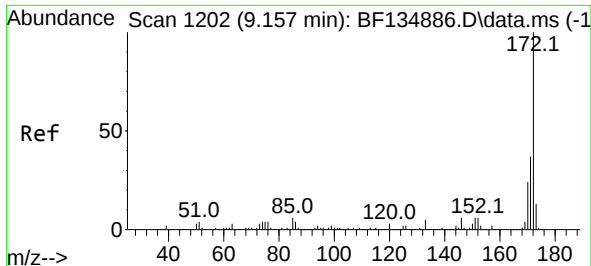
Tgt Ion:164 Resp: 178456
Ion Ratio Lower Upper
164 100
162 102.3 82.6 123.8
160 45.9 37.0 55.4



#42
2,4,6-Tribromophenol
Concen: 70.064 ng
RT: 10.616 min Scan# 1450
Delta R.T. -0.012 min
Lab File: BF134945.D
Acq: 25 Aug 2023 17:29

Tgt Ion:330 Resp: 147258
Ion Ratio Lower Upper
330 100
332 96.7 76.3 114.5
141 32.1 23.4 35.2

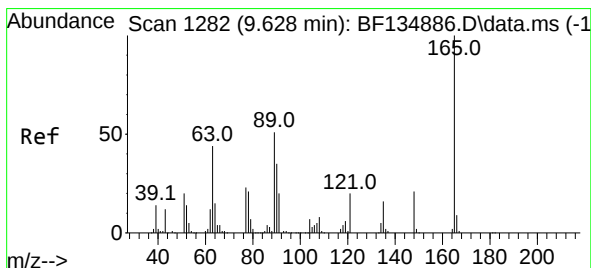
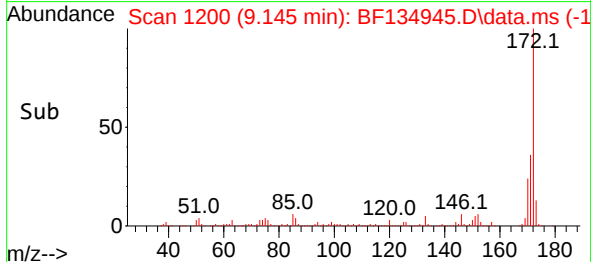
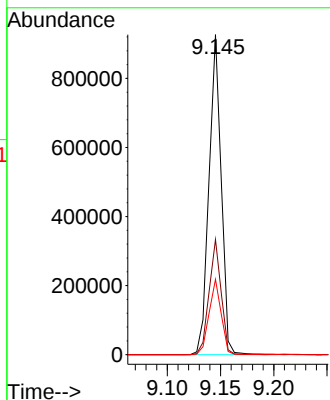
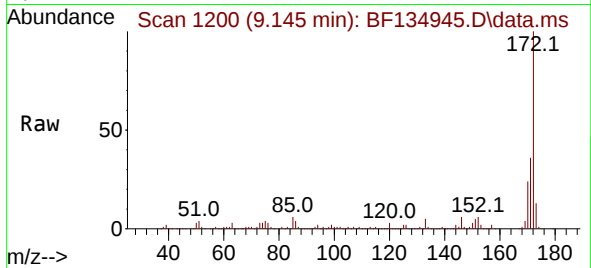




#45
2-Fluorobiphenyl
Concen: 64.067 ng
RT: 9.145 min Scan# 1315
Delta R.T. -0.012 min
Lab File: BF134945.D
Acq: 25 Aug 2023 17:29

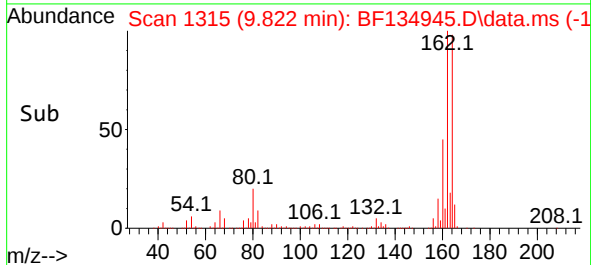
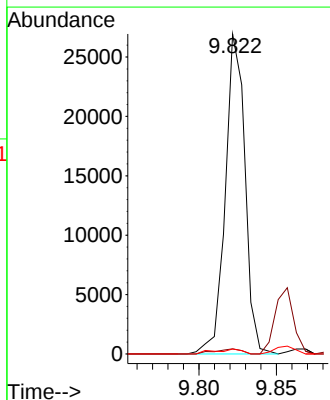
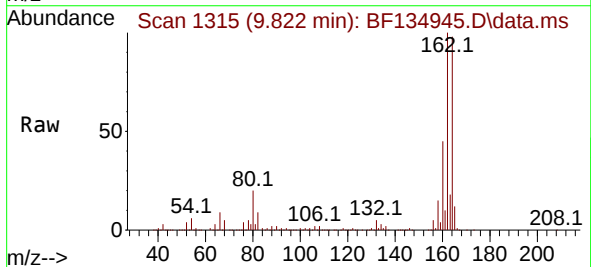
Instrument :
BNA_F
ClientSampleId :
TP-22(3-4)

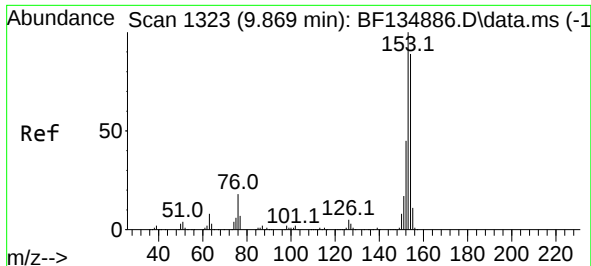
Tgt Ion:172 Resp: 739579
Ion Ratio Lower Upper
172 100
171 36.0 29.4 44.0
170 23.6 19.6 29.4



#51
2,6-Dinitrotoluene
Concen: 8.468 ng
RT: 9.822 min Scan# 1315
Delta R.T. 0.194 min
Lab File: BF134945.D
Acq: 25 Aug 2023 17:29

Tgt Ion:165 Resp: 23724
Ion Ratio Lower Upper
165 100
63 1.6 41.4 62.2#
89 1.5 40.9 61.3#





#52

Acenaphthene

Concen: 5.434 ng

RT: 9.857 min Scan# 11

Delta R.T. -0.012 min

Lab File: BF134945.D

Acq: 25 Aug 2023 17:29

Instrument :

BNA_F

ClientSampleId :

TP-22(3-4)

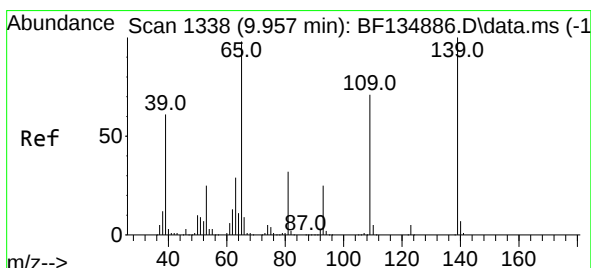
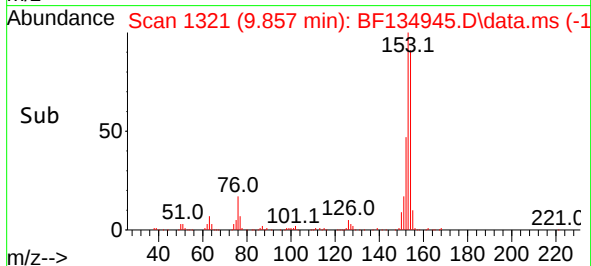
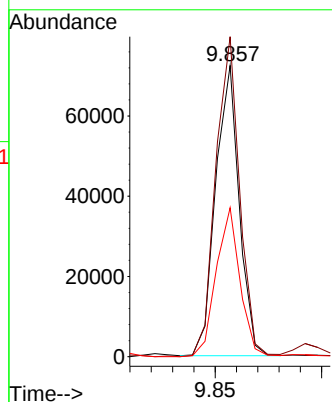
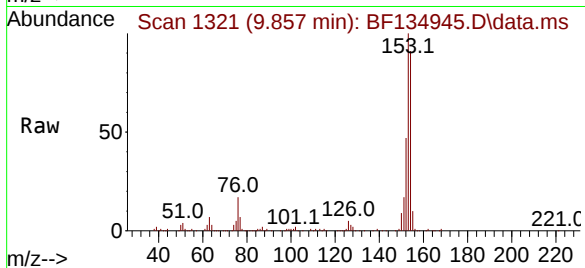
Tgt Ion:154 Resp: 55469

Ion Ratio Lower Upper

154 100

153 109.9 89.6 134.4

152 51.2 40.5 60.7



#56

4-Nitrophenol

Concen: 5.613 ng

RT: 10.028 min Scan# 1350

Delta R.T. 0.071 min

Lab File: BF134945.D

Acq: 25 Aug 2023 17:29

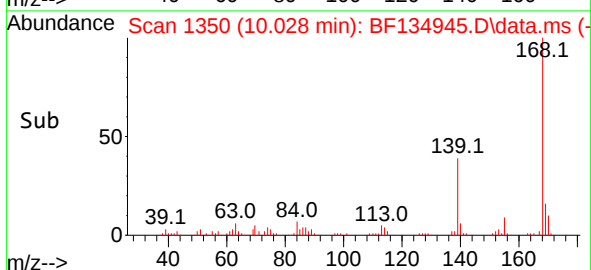
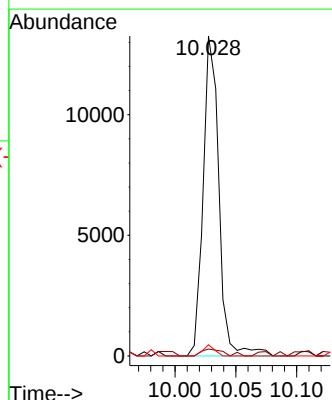
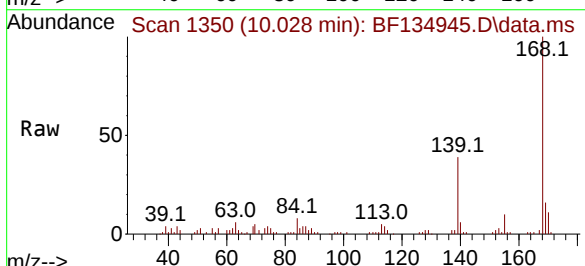
Tgt Ion:139 Resp: 11969

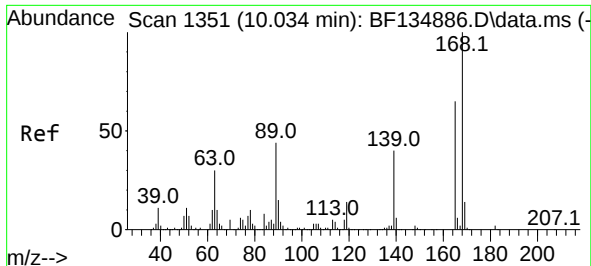
Ion Ratio Lower Upper

139 100

109 2.1 51.0 91.0#

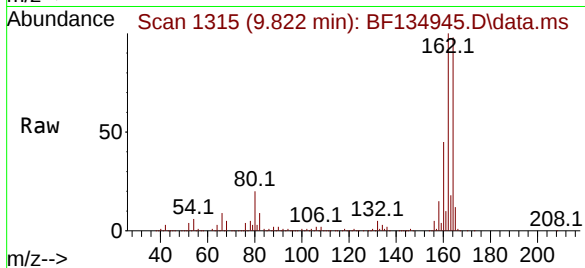
65 3.5 78.5 118.5#



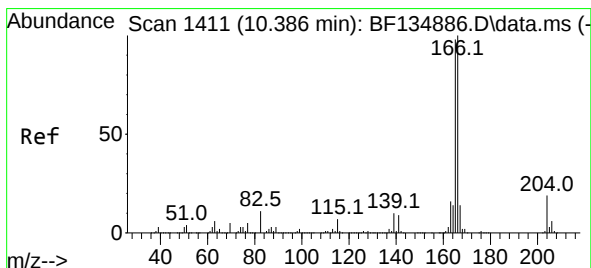
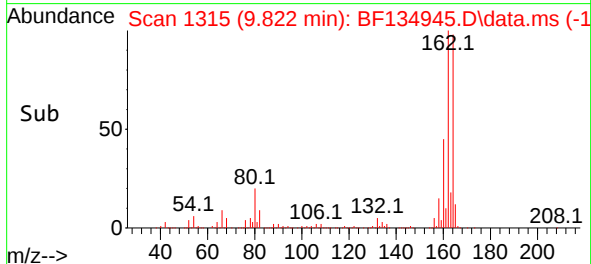
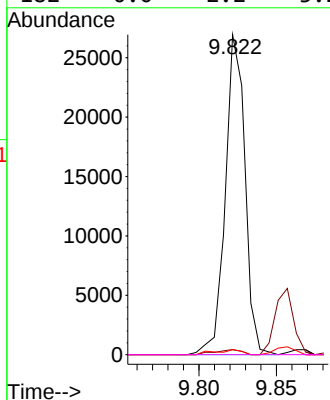


#57
2,4-Dinitrotoluene
Concen: 6.847 ng
RT: 9.822 min Scan# 11
Delta R.T. -0.212 min
Lab File: BF134945.D
Acq: 25 Aug 2023 17:29

Instrument :
BNA_F
ClientSampleId :
TP-22(3-4)

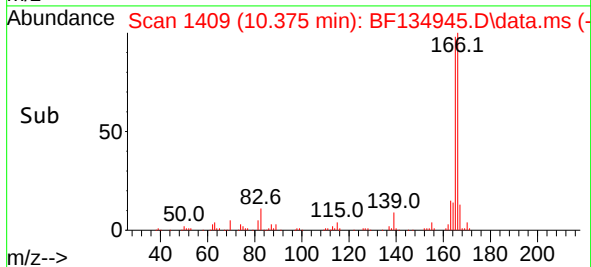
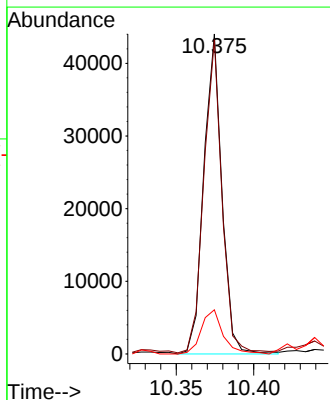
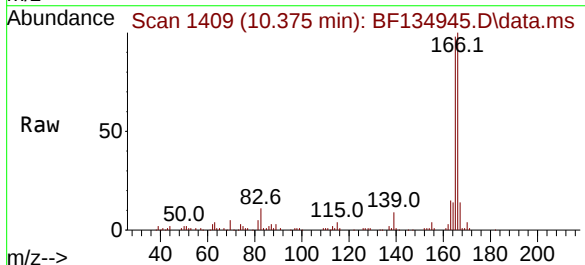


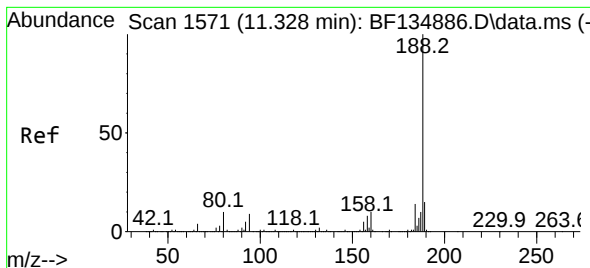
Tgt Ion:165 Resp: 23724
Ion Ratio Lower Upper
165 100
63 1.6 37.7 56.5#
89 1.5 54.2 81.4#
182 0.0 2.2 3.2#



#58
Fluorene
Concen: 3.178 ng
RT: 10.375 min Scan# 1409
Delta R.T. -0.011 min
Lab File: BF134945.D
Acq: 25 Aug 2023 17:29

Tgt Ion:166 Resp: 35819
Ion Ratio Lower Upper
166 100
165 98.2 78.5 117.7
167 13.8 11.0 16.6





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.316 min Scan# 1

Delta R.T. -0.012 min

Lab File: BF134945.D

Acq: 25 Aug 2023 17:29

Instrument :

BNA_F

ClientSampleId :

TP-22(3-4)

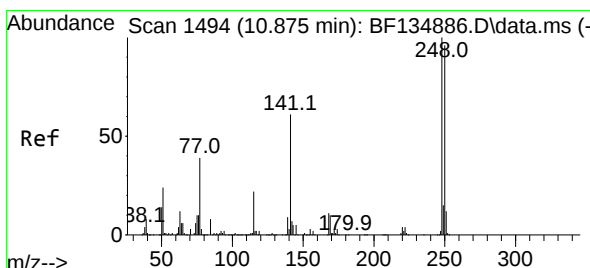
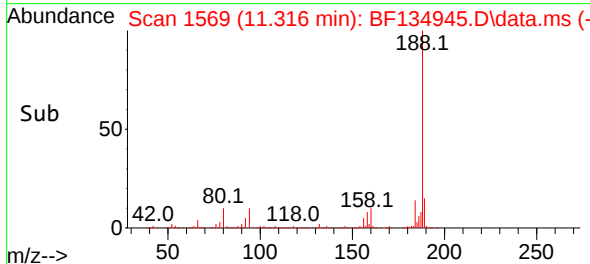
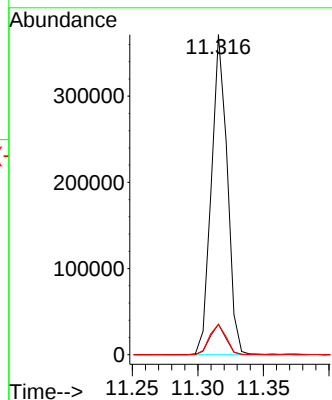
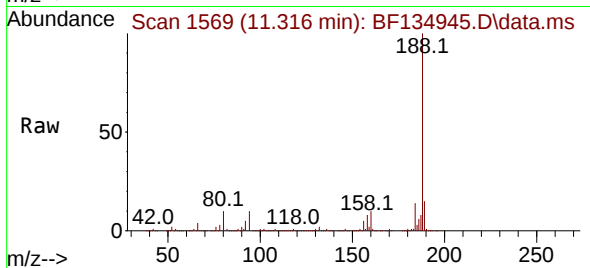
Tgt Ion:188 Resp: 313179

Ion Ratio Lower Upper

188 100

94 9.5 7.5 11.3

80 9.5 7.8 11.6



#67

4-Bromophenyl-phenylether

Concen: 2.697 ng

RT: 10.616 min Scan# 1450

Delta R.T. -0.259 min

Lab File: BF134945.D

Acq: 25 Aug 2023 17:29

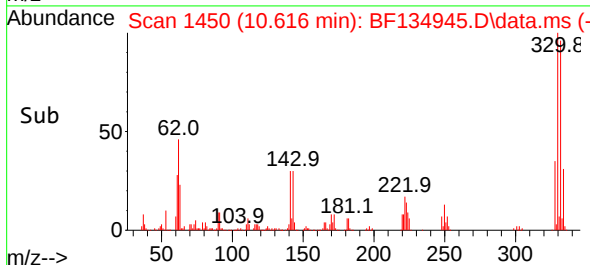
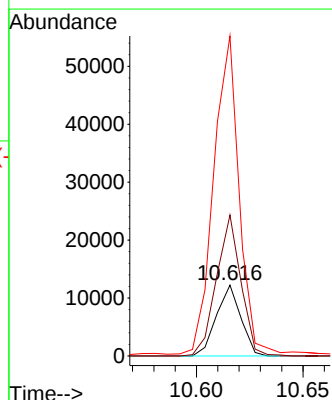
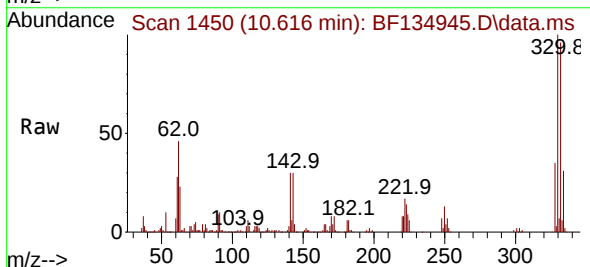
Tgt Ion:248 Resp: 9744

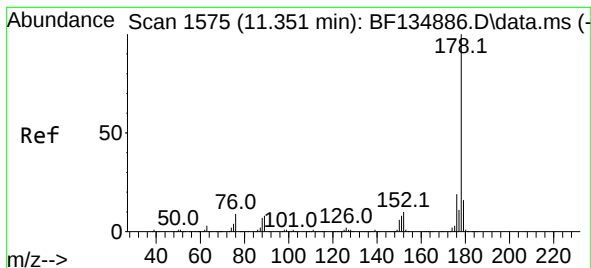
Ion Ratio Lower Upper

248 100

250 198.8 77.1 115.7#

141 451.3 49.0 73.4#





#71

Phenanthrene

Concen: 30.138 ng

RT: 11.339 min Scan# 1

Delta R.T. -0.012 min

Lab File: BF134945.D

Acq: 25 Aug 2023 17:29

Instrument :

BNA_F

ClientSampleId :

TP-22(3-4)

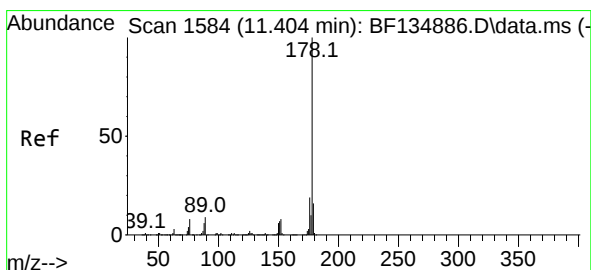
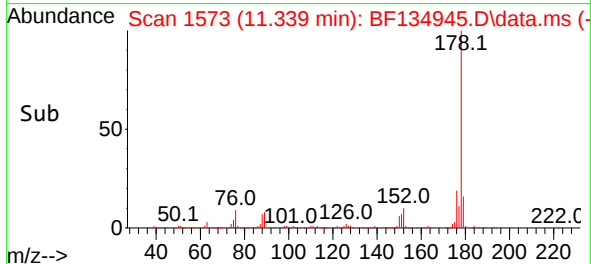
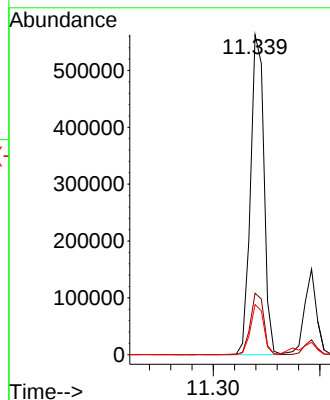
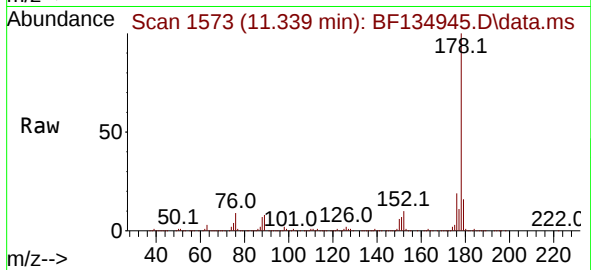
Tgt Ion:178 Resp: 494598

Ion Ratio Lower Upper

178 100

176 19.2 15.5 23.3

179 15.7 12.6 19.0



#72

Anthracene

Concen: 6.785 ng

RT: 11.392 min Scan# 1582

Delta R.T. -0.012 min

Lab File: BF134945.D

Acq: 25 Aug 2023 17:29

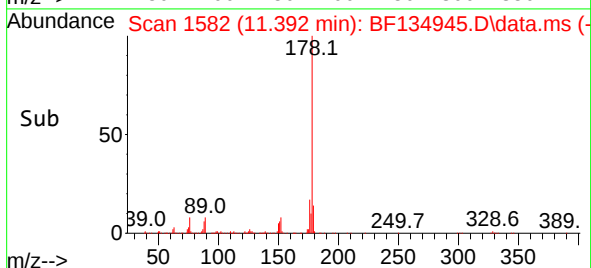
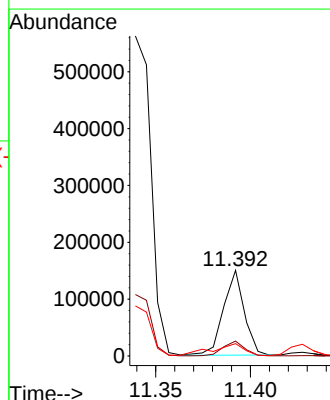
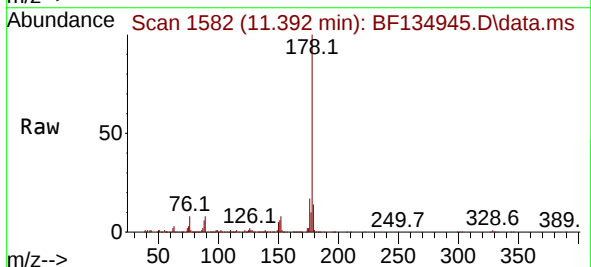
Tgt Ion:178 Resp: 114088

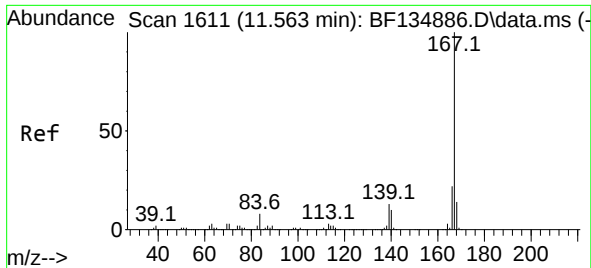
Ion Ratio Lower Upper

178 100

176 17.4 15.0 22.6

179 14.4 12.5 18.7

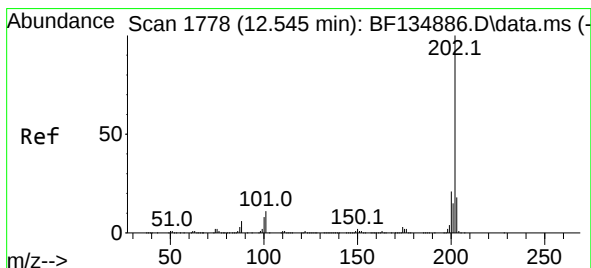
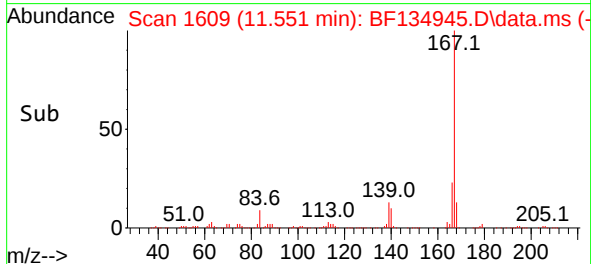
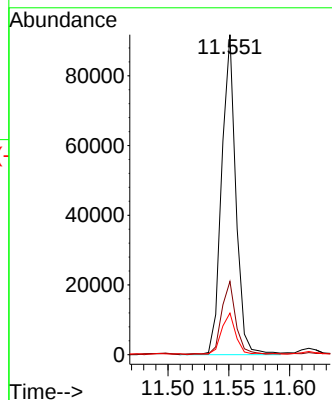
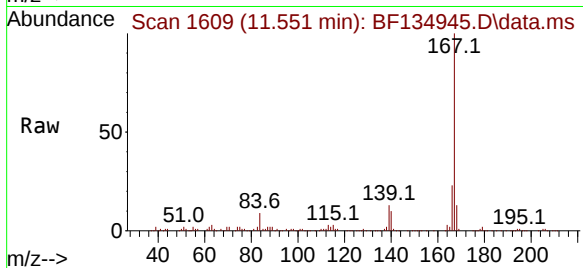




#73
 Carbazole
 Concen: 5.413 ng
 RT: 11.551 min Scan# 1609
 Delta R.T. -0.012 min
 Lab File: BF134945.D
 Acq: 25 Aug 2023 17:29

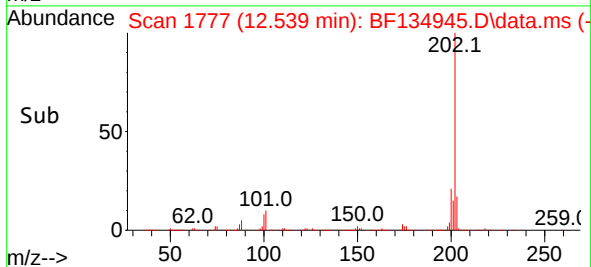
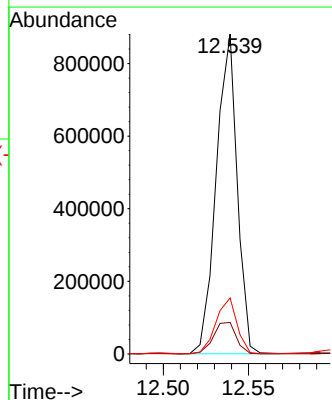
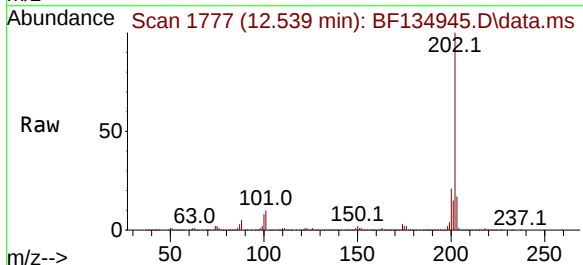
Instrument :
 BNA_F
 ClientSampleId :
 TP-22(3-4)

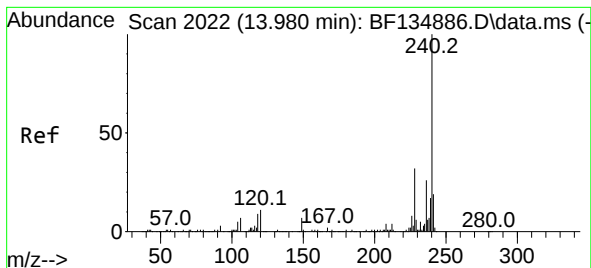
Tgt Ion:167 Resp: 75003
 Ion Ratio Lower Upper
 167 100
 166 22.9 17.4 26.2
 139 13.0 10.4 15.6



#75
 Fluoranthene
 Concen: 48.366 ng
 RT: 12.539 min Scan# 1777
 Delta R.T. -0.006 min
 Lab File: BF134945.D
 Acq: 25 Aug 2023 17:29

Tgt Ion:202 Resp: 752075
 Ion Ratio Lower Upper
 202 100
 101 9.8 0.0 30.5
 203 17.5 0.0 37.8





#76

Chrysene-d12

Concen: 20.000 ng

RT: 13.974 min Scan# 20

Delta R.T. -0.006 min

Lab File: BF134945.D

Acq: 25 Aug 2023 17:29

Instrument :

BNA_F

ClientSampleId :

TP-22(3-4)

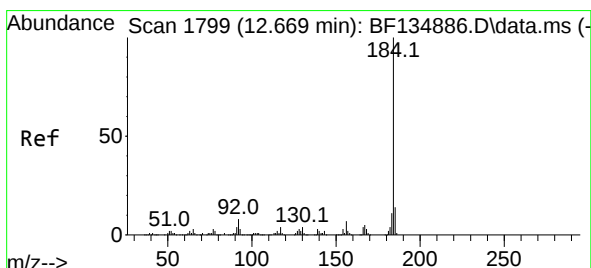
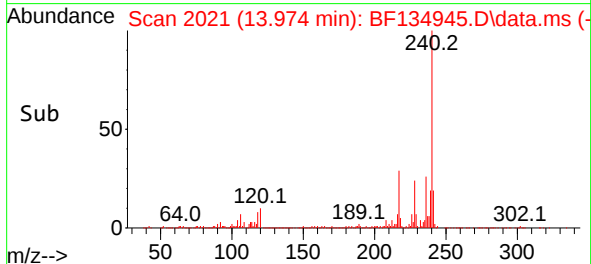
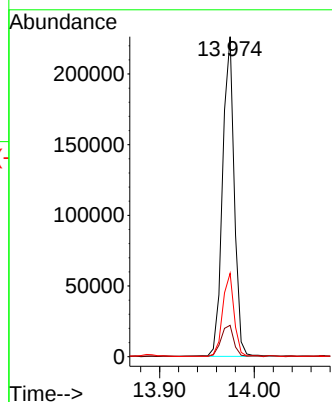
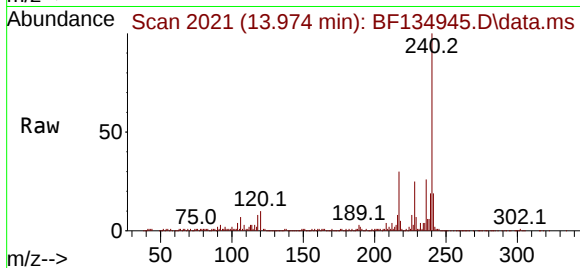
Tgt Ion:240 Resp: 194671

Ion Ratio Lower Upper

240 100

120 9.8 8.6 12.8

236 26.0 20.6 31.0



#77

Benzidine

Concen: 3.227 ng

RT: 12.916 min Scan# 1841

Delta R.T. 0.247 min

Lab File: BF134945.D

Acq: 25 Aug 2023 17:29

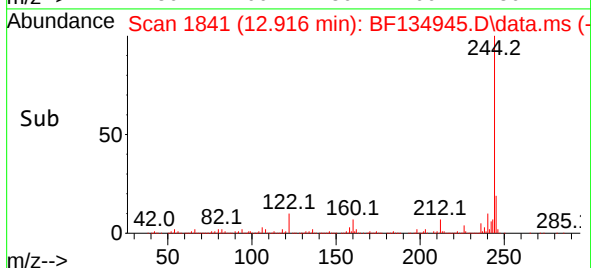
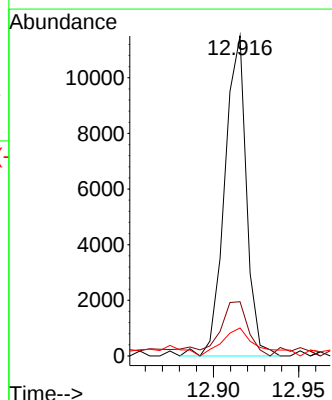
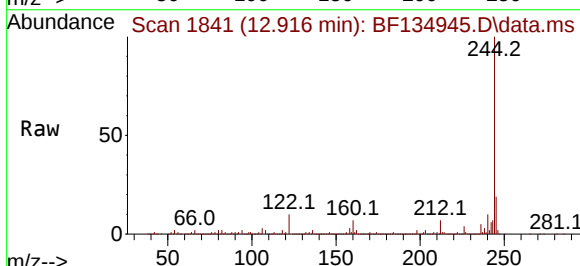
Tgt Ion:184 Resp: 10192

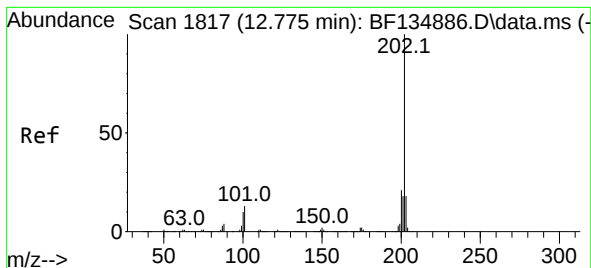
Ion Ratio Lower Upper

184 100

185 16.9 11.4 17.0

183 8.7 9.0 13.4#





#78

Pyrene

Concen: 31.663 ng

RT: 12.769 min Scan# 1816

Delta R.T. -0.006 min

Lab File: BF134945.D

Acq: 25 Aug 2023 17:29

Instrument :

BNA_F

ClientSampleId :

TP-22(3-4)

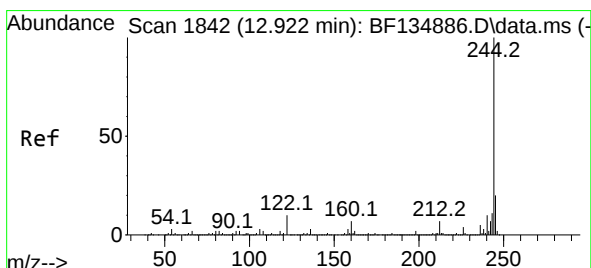
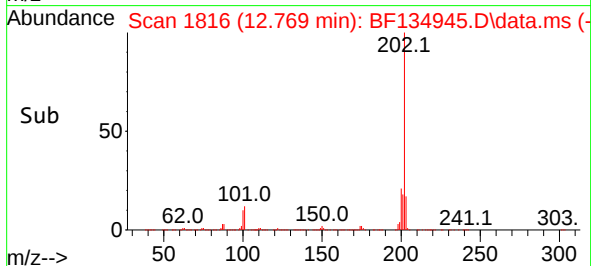
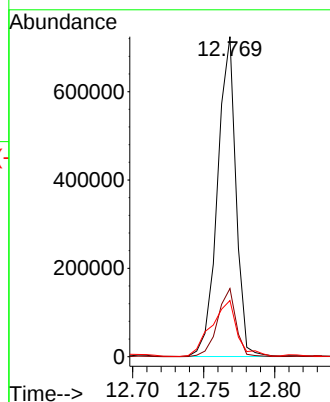
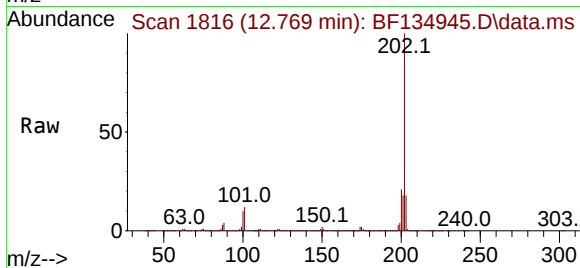
Tgt Ion:202 Resp: 653525

Ion Ratio Lower Upper

202 100

200 21.3 17.1 25.7

203 17.5 14.2 21.2



#79

Terphenyl-d14

Concen: 51.991 ng

RT: 12.916 min Scan# 1841

Delta R.T. -0.006 min

Lab File: BF134945.D

Acq: 25 Aug 2023 17:29

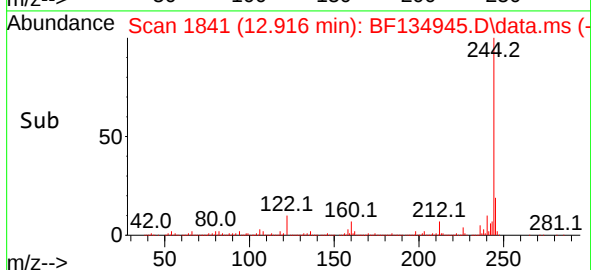
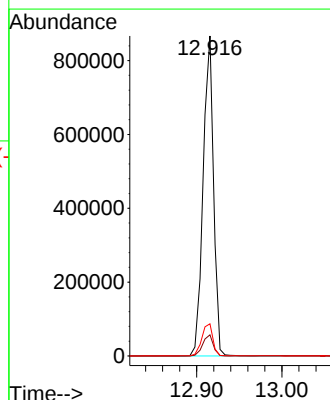
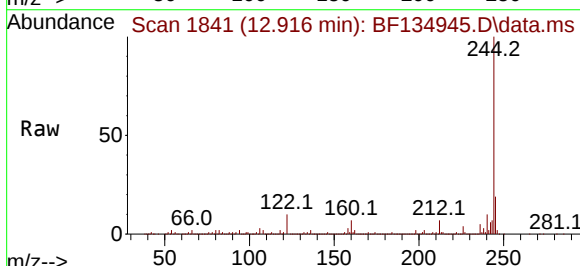
Tgt Ion:244 Resp: 735866

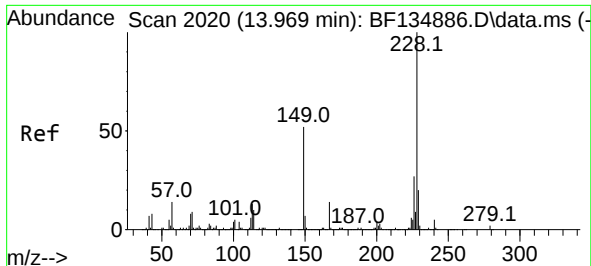
Ion Ratio Lower Upper

244 100

212 6.6 5.4 8.0

122 10.0 8.2 12.4

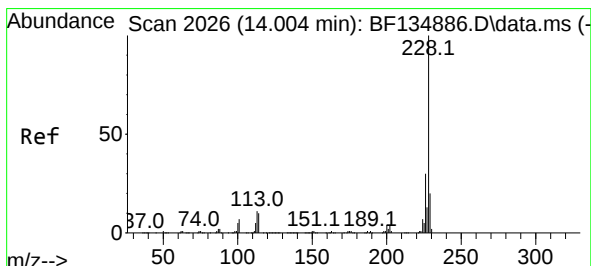
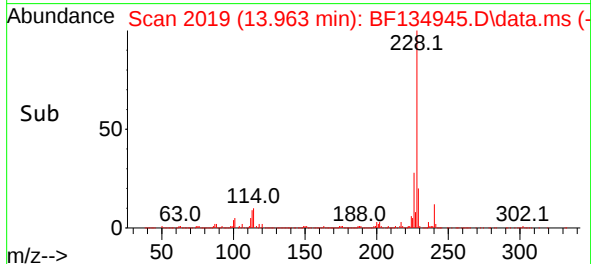
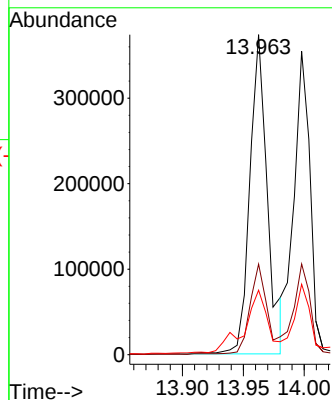
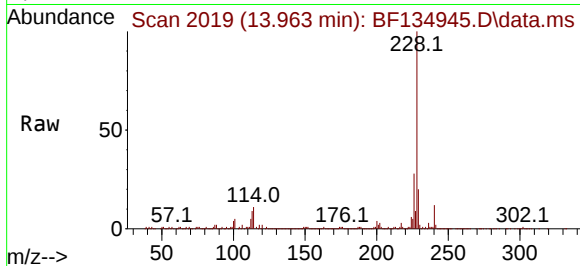




#81
Benzo(a)anthracene
Concen: 28.175 ng
RT: 13.963 min Scan# 20
Delta R.T. -0.006 min
Lab File: BF134945.D
Acq: 25 Aug 2023 17:29

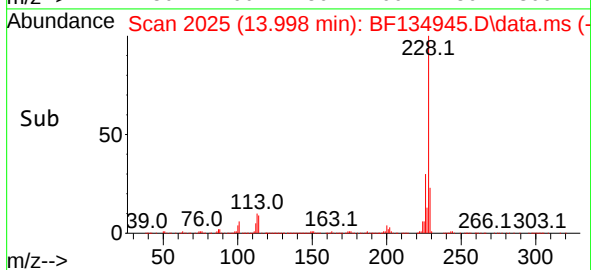
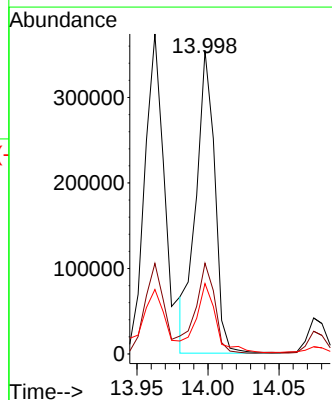
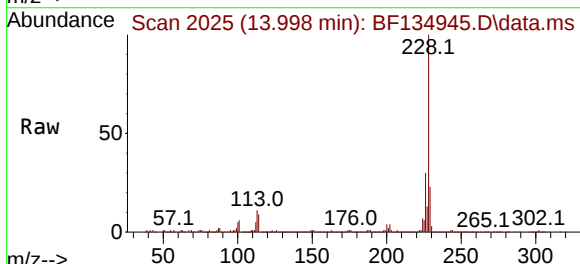
Instrument :
BNA_F
ClientSampleId :
TP-22(3-4)

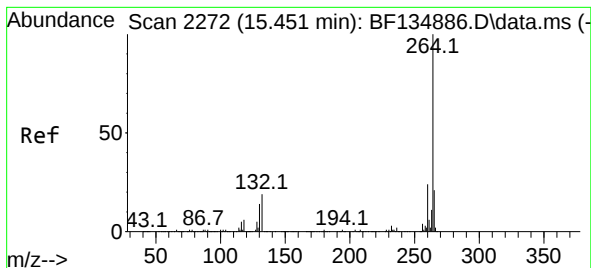
Tgt Ion:228 Resp: 374220
Ion Ratio Lower Upper
228 100
226 28.3 21.8 32.6
229 20.1 15.6 23.4



#83
Chrysene
Concen: 24.936 ng
RT: 13.998 min Scan# 2025
Delta R.T. -0.006 min
Lab File: BF134945.D
Acq: 25 Aug 2023 17:29

Tgt Ion:228 Resp: 326777
Ion Ratio Lower Upper
228 100
226 29.9 24.2 36.2
229 23.2 16.0 24.0





#86

Perylene-d12

Concen: 20.000 ng

RT: 15.445 min Scan# 21

Delta R.T. -0.006 min

Lab File: BF134945.D

Acq: 25 Aug 2023 17:29

Instrument :

BNA_F

ClientSampleId :

TP-22(3-4)

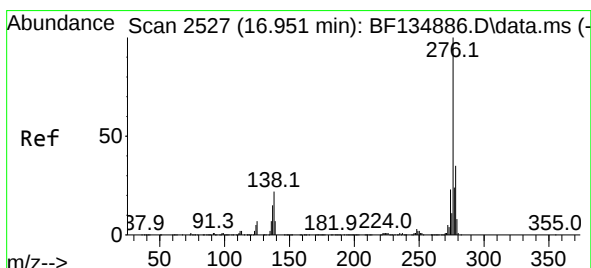
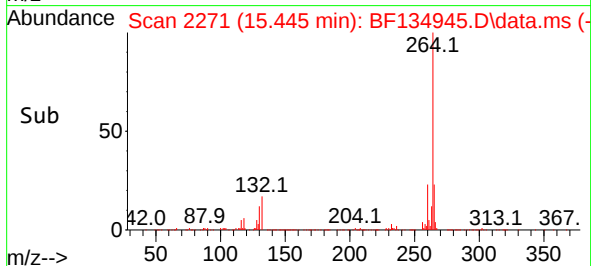
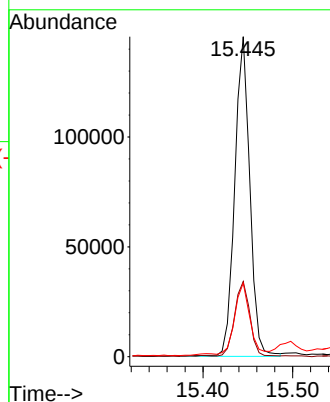
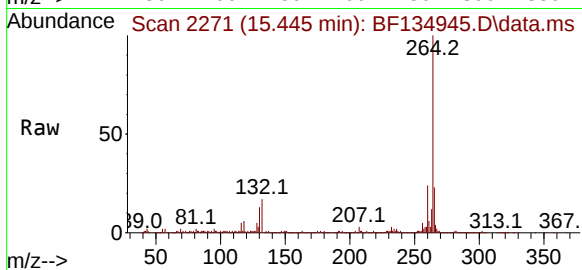
Tgt Ion:264 Resp: 169640

Ion Ratio Lower Upper

264 100

260 23.5 19.0 28.6

265 23.0 17.1 25.7



#87

Indeno(1,2,3-cd)pyrene

Concen: 11.665 ng

RT: 16.927 min Scan# 2523

Delta R.T. -0.024 min

Lab File: BF134945.D

Acq: 25 Aug 2023 17:29

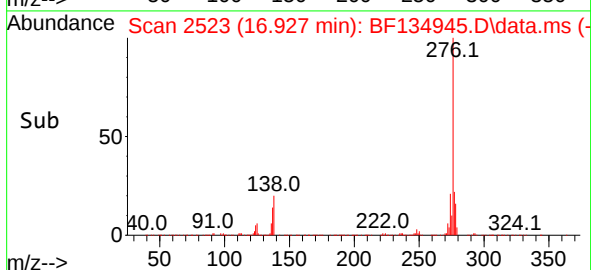
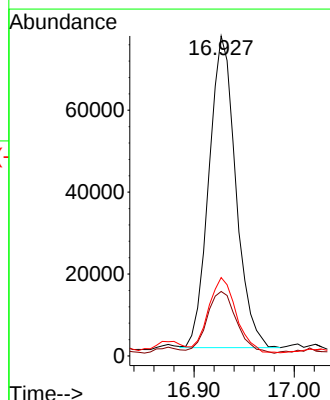
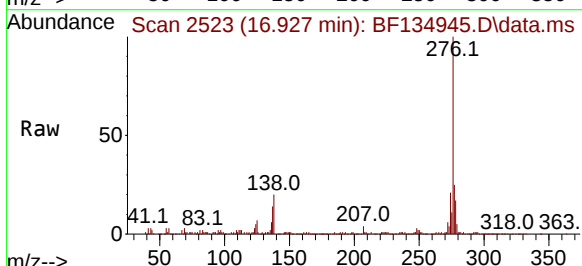
Tgt Ion:276 Resp: 141447

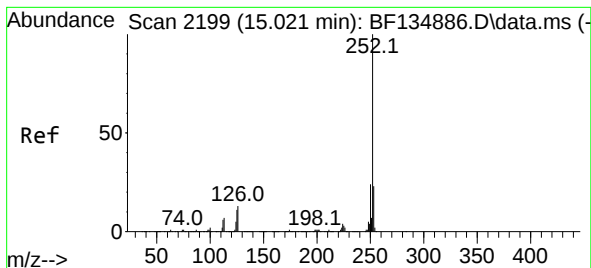
Ion Ratio Lower Upper

276 100

138 22.5 19.7 29.5

277 25.3 20.1 30.1





#88

Benzo(b)fluoranthene

Concen: 56.829 ng

RT: 15.015 min Scan# 2198

Delta R.T. -0.006 min

Lab File: BF134945.D

Acq: 25 Aug 2023 17:29

Instrument :

BNA_F

ClientSampleId :

TP-22(3-4)

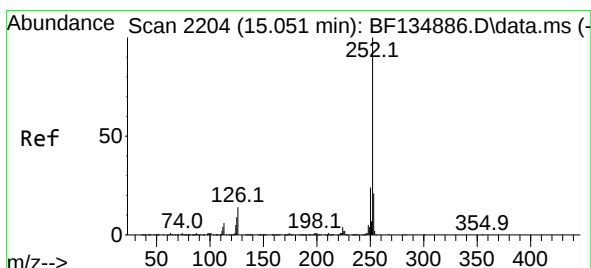
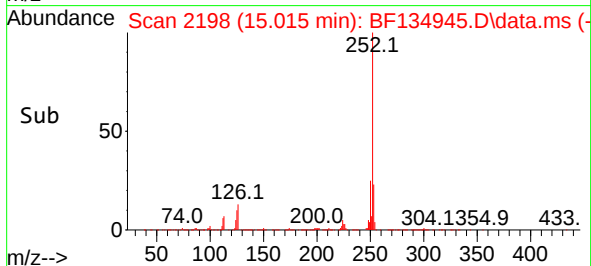
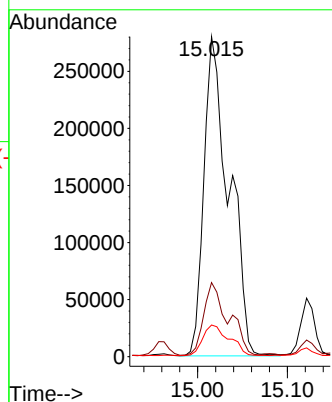
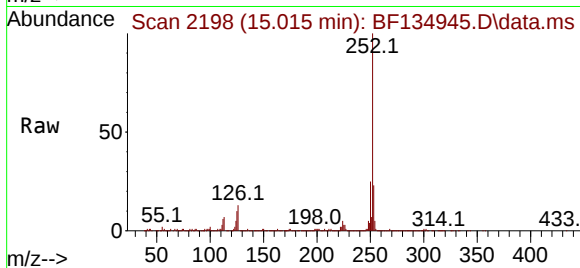
Tgt Ion:252 Resp: 543909

Ion Ratio Lower Upper

252 100

253 23.2 18.1 27.1

125 9.9 8.4 12.6



#89

Benzo(k)fluoranthene

Concen: 57.872 ng

RT: 15.015 min Scan# 2198

Delta R.T. -0.035 min

Lab File: BF134945.D

Acq: 25 Aug 2023 17:29

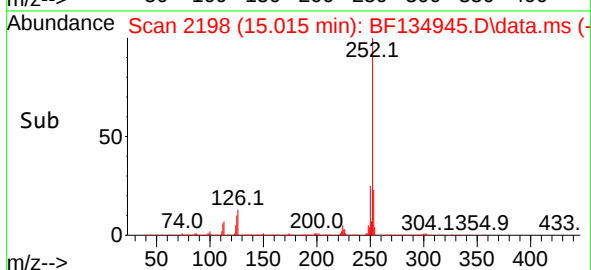
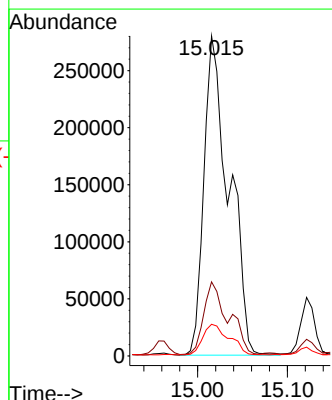
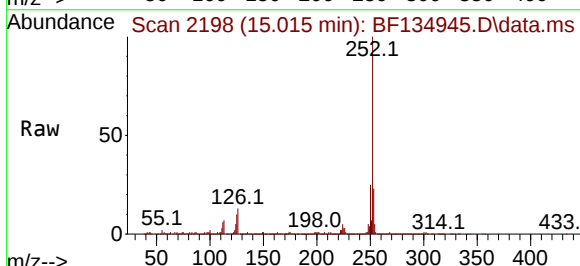
Tgt Ion:252 Resp: 543909

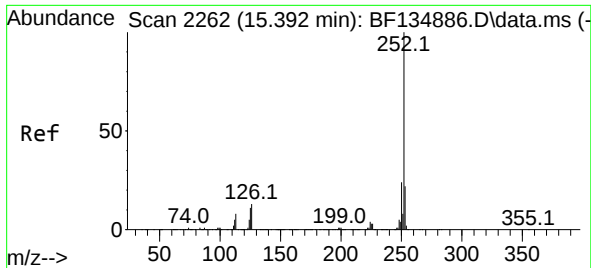
Ion Ratio Lower Upper

252 100

253 23.2 17.1 25.7

125 9.9 8.0 12.0

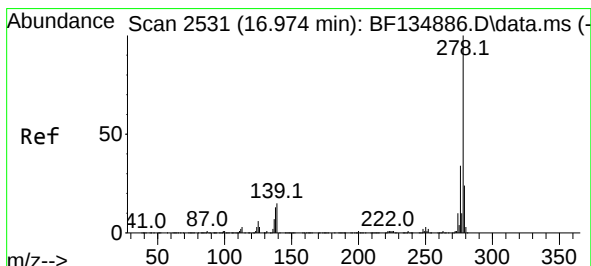
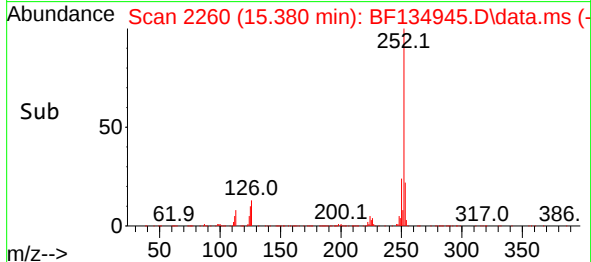
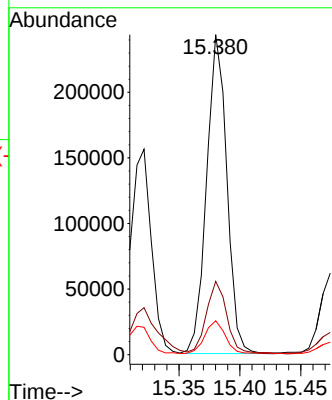
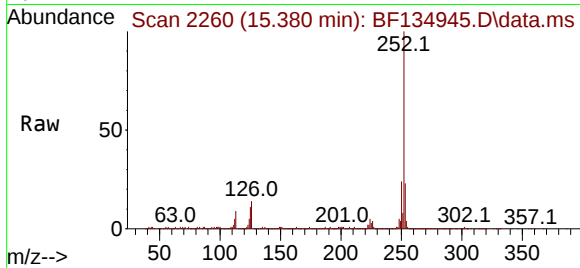




#90
Benzo(a)pyrene
Concen: 29.364 ng
RT: 15.380 min Scan# 21
Delta R.T. -0.012 min
Lab File: BF134945.D
Acq: 25 Aug 2023 17:29

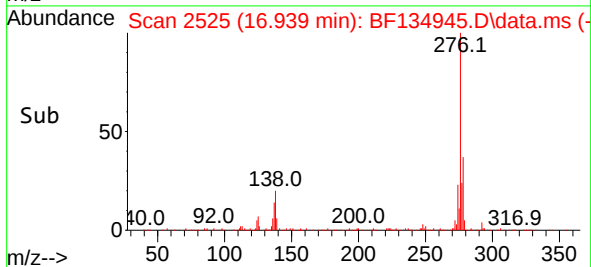
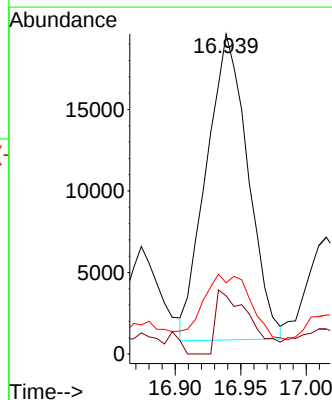
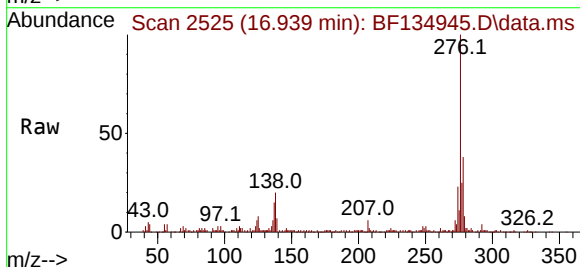
Instrument :
BNA_F
ClientSampleId :
TP-22(3-4)

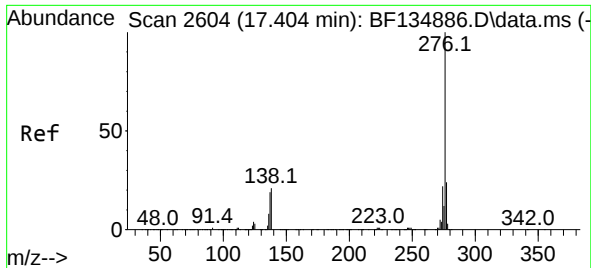
Tgt Ion:252 Resp: 280564
Ion Ratio Lower Upper
252 100
253 22.9 17.6 26.4
125 10.6 8.4 12.6



#91
Dibenzo(a,h)anthracene
Concen: 4.222 ng
RT: 16.939 min Scan# 2525
Delta R.T. -0.035 min
Lab File: BF134945.D
Acq: 25 Aug 2023 17:29

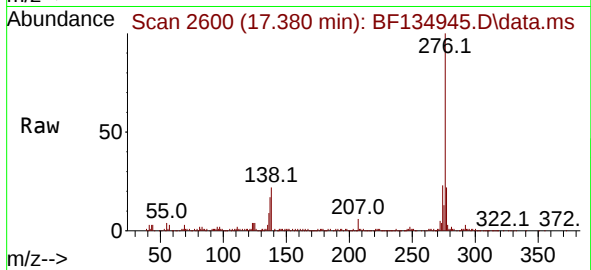
Tgt Ion:278 Resp: 41427
Ion Ratio Lower Upper
278 100
139 18.1 12.2 18.4
279 22.2 19.1 28.7





#92
 Benzo(g,h,i)perylene
 Concen: 14.038 ng
 RT: 17.380 min Scan# 20
 Delta R.T. -0.024 min
 Lab File: BF134945.D
 Acq: 25 Aug 2023 17:29

Instrument :
 BNA_F
 ClientSampleId :
 TP-22(3-4)



Tgt Ion:276 Resp: 140995
 Ion Ratio Lower Upper
 276 100
 277 22.1 19.2 28.8
 138 21.7 17.0 25.6

