

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF110824\
 Data File : BF140303.D
 Acq On : 08 Nov 2024 17:10
 Operator : RC/JU
 Sample : P4722-08
 Misc :
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 WC-2(0-6)

Quant Time: Nov 08 21:46:56 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF110524.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Nov 05 16:47:56 2024
 Response via : Initial Calibration

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

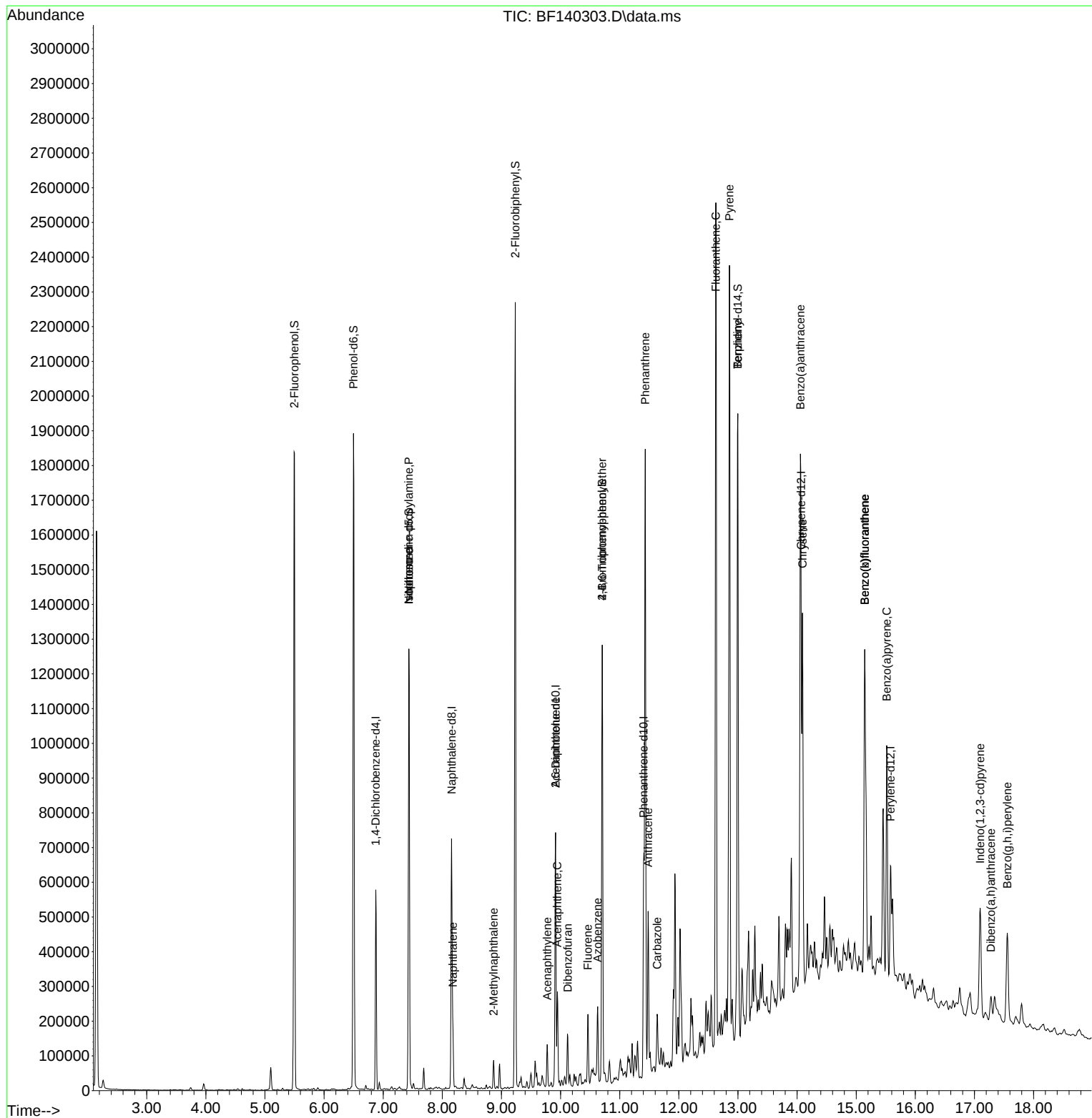
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.875	152	115521	20.000	ng	0.00
21) Naphthalene-d8	8.157	136	425723	20.000	ng	0.00
39) Acenaphthene-d10	9.916	164	222785	20.000	ng	0.00
64) Phenanthrene-d10	11.404	188	343931	20.000	ng	0.00
76) Chrysene-d12	14.068	240	256443	20.000	ng	0.00
86) Perylene-d12	15.580	264	206534	20.000	ng	0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.498	112	695359	99.753	ng	0.00
7) Phenol-d6	6.498	99	875884	97.688	ng	0.00
23) Nitrobenzene-d5	7.434	82	569109	66.464	ng	-0.01
42) 2,4,6-Tribromophenol	10.704	330	202000	91.730	ng	0.00
45) 2-Fluorobiphenyl	9.233	172	995137	71.326	ng	0.00
79) Terphenyl-d14	12.998	244	912564	58.294	ng	0.00
Target Compounds						Qvalue
19) n-Nitroso-di-n-propyla...	7.434	70	78317	13.692	ng	# 75
25) Isophorone	7.434	82	563148	38.195	ng	# 67
31) Naphthalene	8.181	128	96069	4.370	ng	98
37) 2-Methylnaphthalene	8.869	142	31164	2.172	ng	98
49) Acenaphthylene	9.775	152	63951	3.727	ng	99
51) 2,6-Dinitrotoluene	9.916	165	30799	9.550	ng	# 22
52) Acenaphthene	9.945	154	82571	6.784	ng	99
55) Dibenzofuran	10.122	168	70193	4.124	ng	95
58) Fluorene	10.463	166	75439	5.568	ng	99
63) Azobenzene	10.628	77	42922	3.037	ng	# 1
67) 4-Bromophenyl-phenylether	10.704	248	13047	3.523	ng	# 1
71) Phenanthrene	11.433	178	967820	58.965	ng	99
72) Anthracene	11.480	178	262486	16.309	ng	99
73) Carbazole	11.633	167	88007	5.984	ng	98
75) Fluoranthene	12.627	202	1395126	81.289	ng	100
77) Benzidine	12.998	184	11493	2.292	ng	# 84
78) Pyrene	12.857	202	1313608	62.039	ng	98
81) Benzo(a)anthracene	14.057	228	734398	44.624	ng	97
83) Chrysene	14.092	228	566900	36.784	ng	97
87) Indeno(1,2,3-cd)pyrene	17.098	276	253871	20.940	ng	96
88) Benzo(b)fluoranthene	15.145	252	855045	68.443	ng	99
89) Benzo(k)fluoranthene	15.145	252	855045	74.588	ng	99
90) Benzo(a)pyrene	15.515	252	444148	43.121	ng	98
91) Dibenzo(a,h)anthracene	17.280	278	51653	5.179	ng	92
92) Benzo(g,h,i)perylene	17.557	276	255958	25.156	ng	99

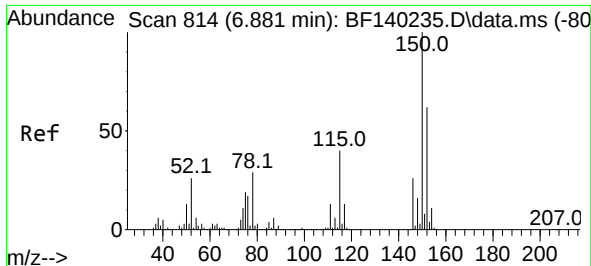
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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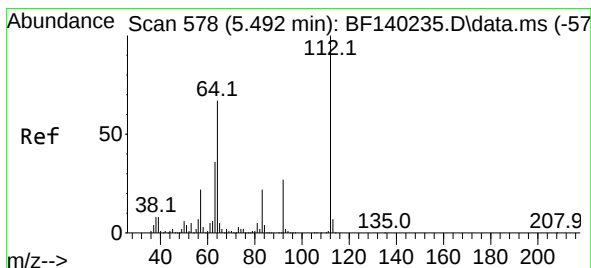
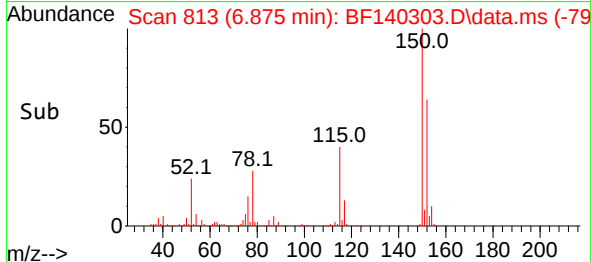
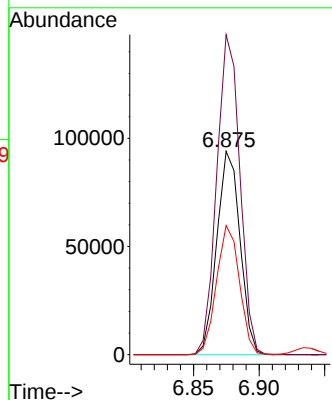
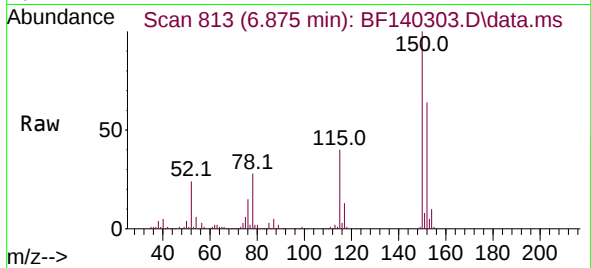




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.875 min Scan# 814
Delta R.T. -0.006 min
Lab File: BF140303.D
Acq: 08 Nov 2024 17:10

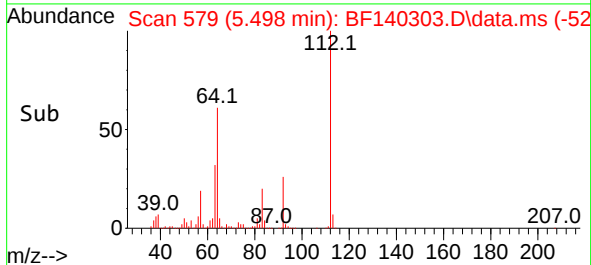
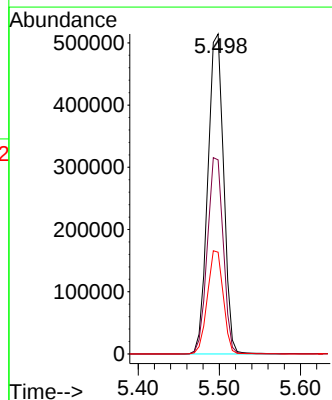
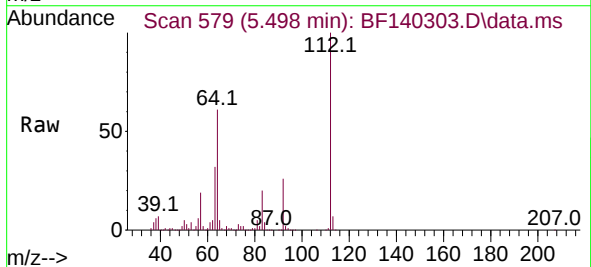
Instrument :
BNA_F
ClientSampleId :
WC-2(0-6)

Tgt Ion:152 Resp: 115521
Ion Ratio Lower Upper
152 100
150 157.4 129.4 194.2
115 63.5 51.5 77.3



#5
2-Fluorophenol
Concen: 99.753 ng
RT: 5.498 min Scan# 579
Delta R.T. 0.006 min
Lab File: BF140303.D
Acq: 08 Nov 2024 17:10

Tgt Ion:112 Resp: 695359
Ion Ratio Lower Upper
112 100
64 60.6 53.4 80.2
63 31.8 28.9 43.3

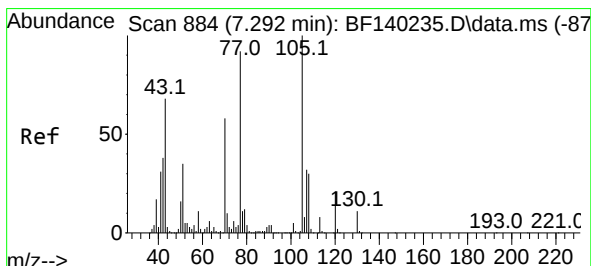
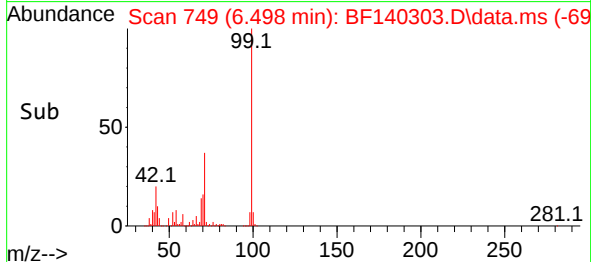
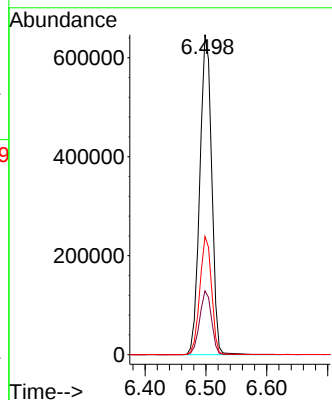
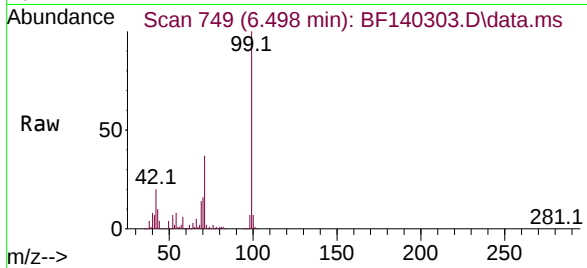




#7
Phenol-d6
Concen: 97.688 ng
RT: 6.498 min Scan# 74
Delta R.T. -0.006 min
Lab File: BF140303.D
Acq: 08 Nov 2024 17:10

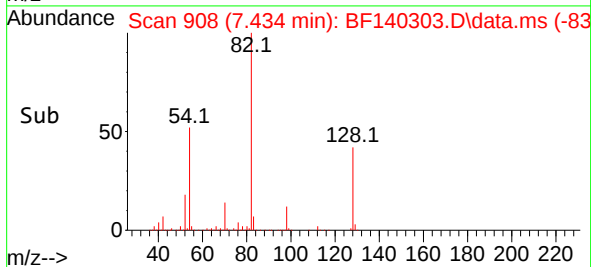
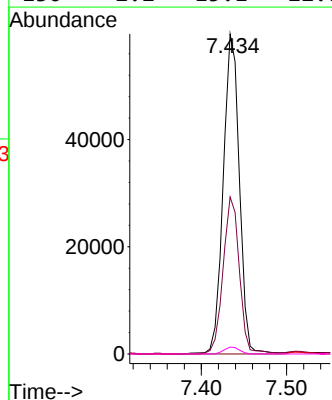
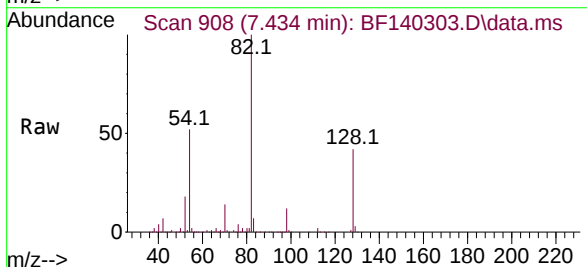
Instrument :
BNA_F
ClientSampleId :
WC-2(0-6)

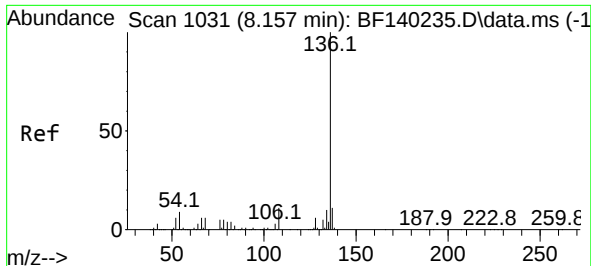
Tgt Ion: 99 Resp: 875884
Ion Ratio Lower Upper
99 100
42 20.0 18.2 27.2
71 36.9 30.9 46.3



#19
n-Nitroso-di-n-propylamine
Concen: 13.692 ng
RT: 7.434 min Scan# 908
Delta R.T. 0.141 min
Lab File: BF140303.D
Acq: 08 Nov 2024 17:10

Tgt Ion: 70 Resp: 78317
Ion Ratio Lower Upper
70 100
42 49.1 52.8 79.2#
101 0.0 7.4 11.2#
130 2.2 15.1 22.7#



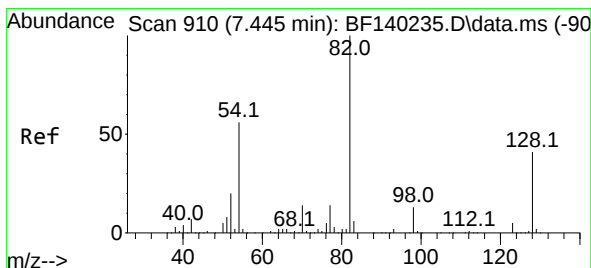
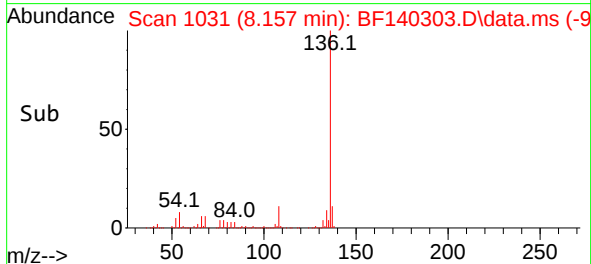
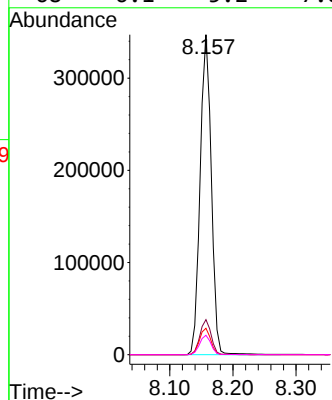
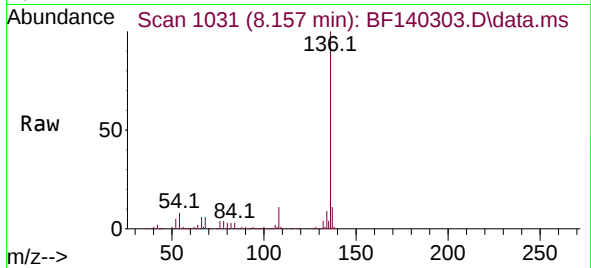


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.157 min Scan# 1031
Delta R.T. 0.000 min
Lab File: BF140303.D
Acq: 08 Nov 2024 17:10

Instrument :
BNA_F
ClientSampleId :
WC-2(0-6)

Tgt Ion:136 Resp: 425723

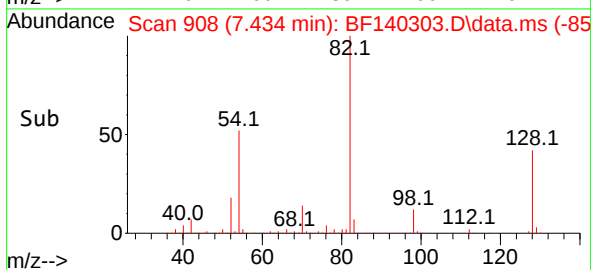
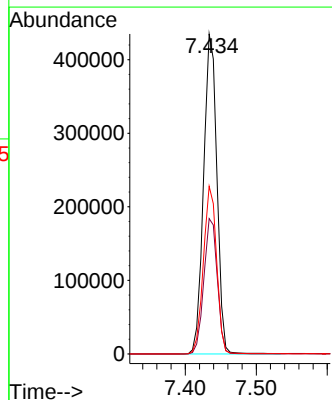
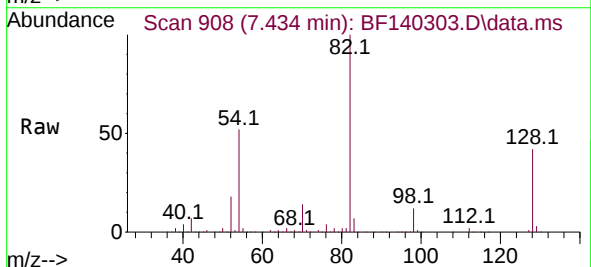
Ion	Ratio	Lower	Upper
136	100		
137	10.9	9.0	13.6
54	8.2	7.7	11.5
68	6.1	5.2	7.8

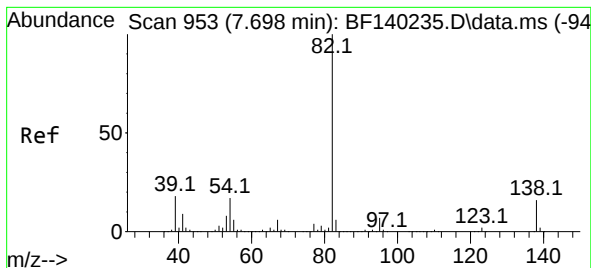


#23
Nitrobenzene-d5
Concen: 66.464 ng
RT: 7.434 min Scan# 908
Delta R.T. -0.012 min
Lab File: BF140303.D
Acq: 08 Nov 2024 17:10

Tgt Ion: 82 Resp: 569109

Ion	Ratio	Lower	Upper
82	100		
128	42.3	32.8	49.2
54	52.4	44.3	66.5





#25

Isophorone

Concen: 38.195 ng

RT: 7.434 min Scan# 90

Delta R.T. -0.265 min

Lab File: BF140303.D

Acq: 08 Nov 2024 17:10

Instrument :

BNA_F

ClientSampleId :

WC-2(0-6)

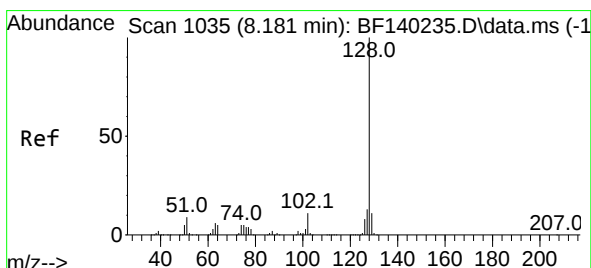
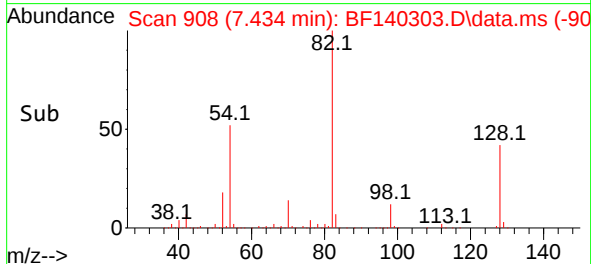
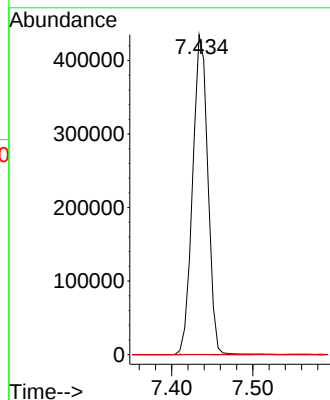
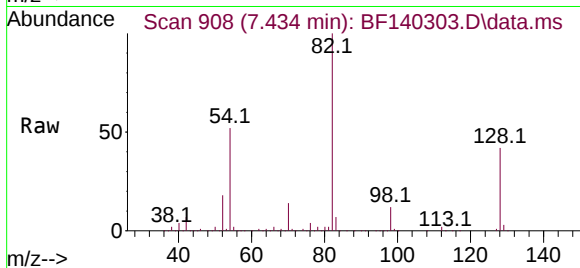
Tgt Ion: 82 Resp: 563148

Ion Ratio Lower Upper

82 100

95 0.0 6.0 9.0#

138 0.0 12.9 19.3#



#31

Naphthalene

Concen: 4.370 ng

RT: 8.181 min Scan# 1035

Delta R.T. 0.000 min

Lab File: BF140303.D

Acq: 08 Nov 2024 17:10

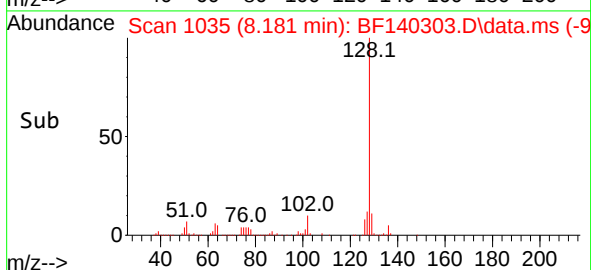
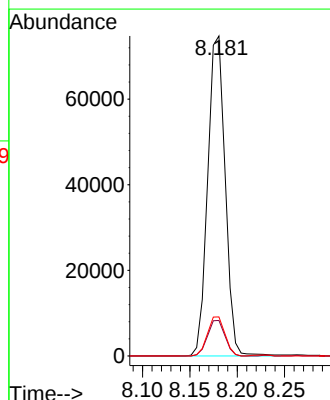
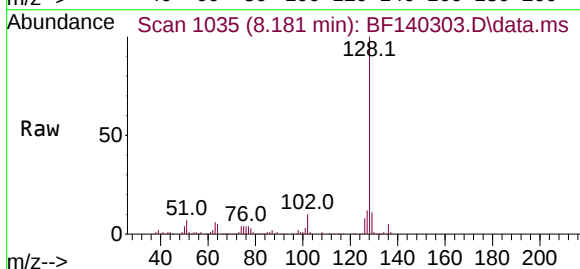
Tgt Ion:128 Resp: 96069

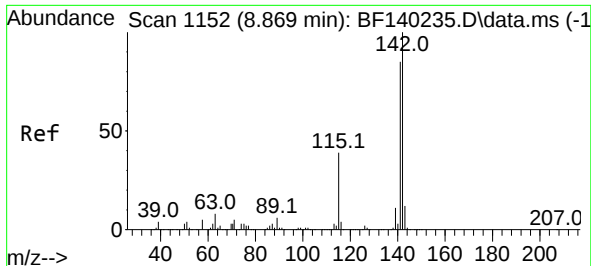
Ion Ratio Lower Upper

128 100

129 11.1 9.0 13.6

127 12.2 10.7 16.1

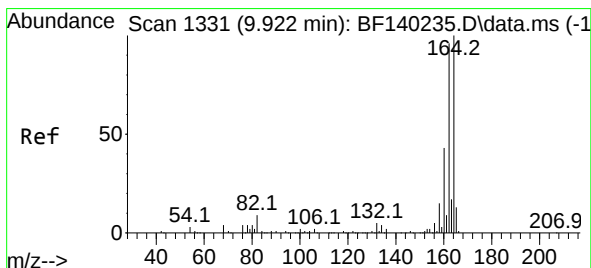
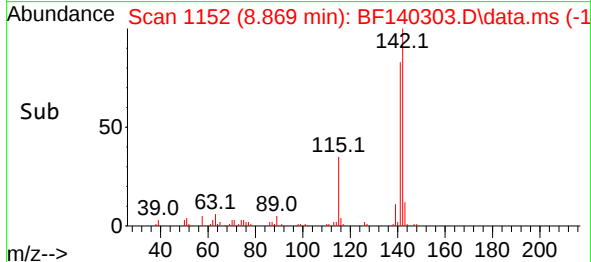
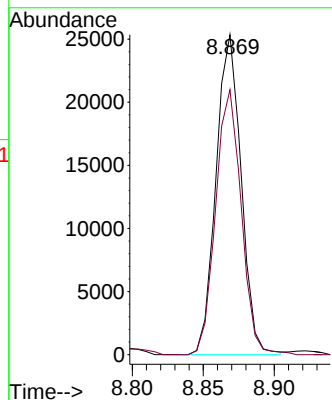
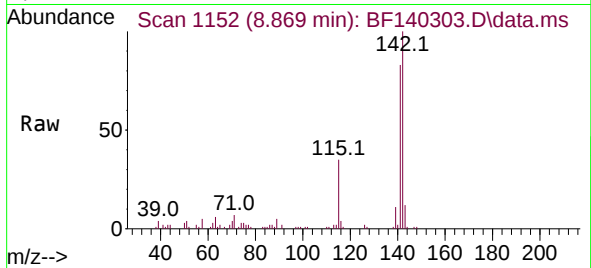




#37
2-Methylnaphthalene
Concen: 2.172 ng
RT: 8.869 min Scan# 1152
Delta R.T. 0.000 min
Lab File: BF140303.D
Acq: 08 Nov 2024 17:10

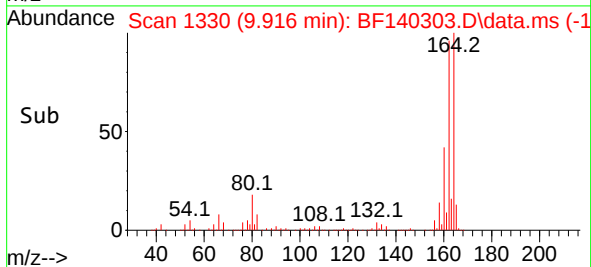
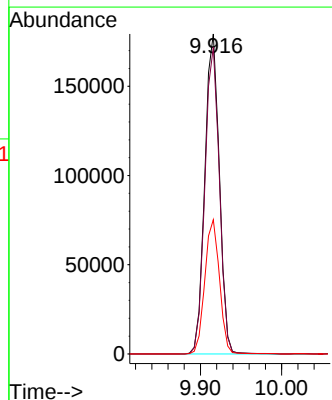
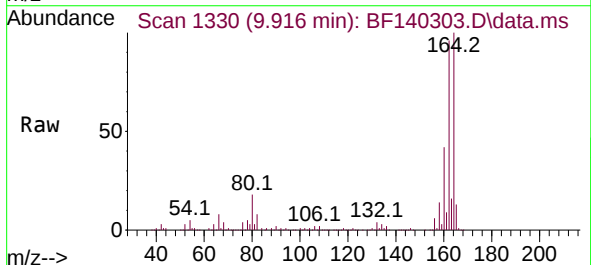
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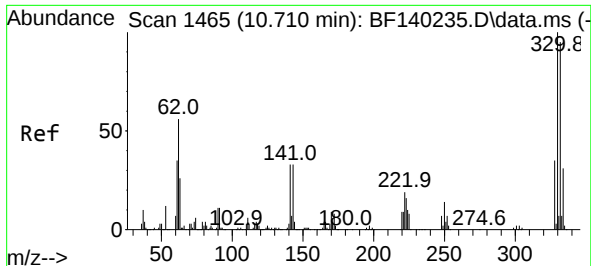
Tgt Ion:142 Resp: 31164
Ion Ratio Lower Upper
142 100
141 82.8 67.8 101.8



#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.916 min Scan# 1330
Delta R.T. -0.006 min
Lab File: BF140303.D
Acq: 08 Nov 2024 17:10

Tgt Ion:164 Resp: 222785
Ion Ratio Lower Upper
164 100
162 95.9 77.0 115.4
160 41.9 34.1 51.1





#42

2,4,6-Tribromophenol

Concen: 91.730 ng

RT: 10.704 min Scan# 1464

Delta R.T. -0.006 min

Lab File: BF140303.D

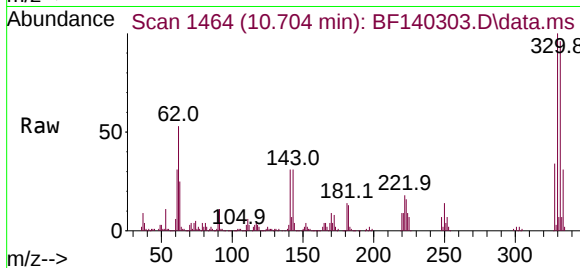
Acq: 08 Nov 2024 17:10

Instrument :

BNA_F

ClientSampleId :

WC-2(0-6)



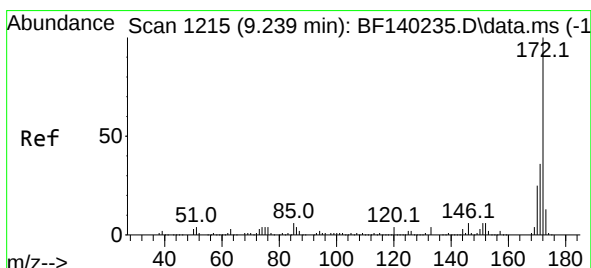
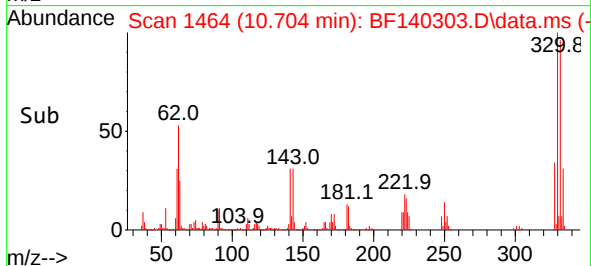
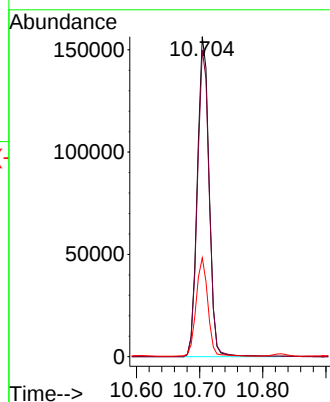
Tgt Ion:330 Resp: 202000

Ion Ratio Lower Upper

330 100

332 96.3 76.4 114.6

141 30.6 27.0 40.4



#45

2-Fluorobiphenyl

Concen: 71.326 ng

RT: 9.233 min Scan# 1214

Delta R.T. -0.006 min

Lab File: BF140303.D

Acq: 08 Nov 2024 17:10

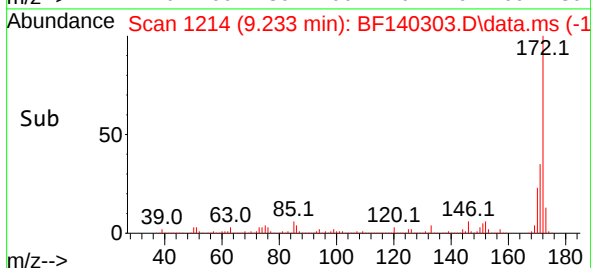
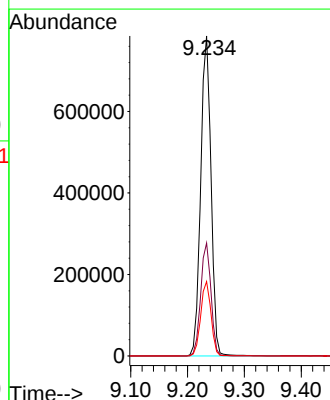
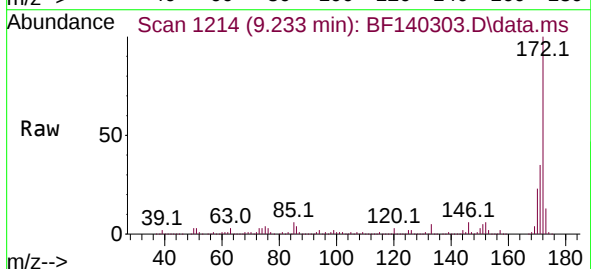
Tgt Ion:172 Resp: 995137

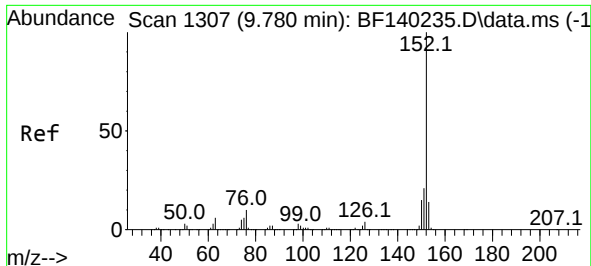
Ion Ratio Lower Upper

172 100

171 35.3 28.8 43.2

170 23.3 19.6 29.4





#49

Acenaphthylene

Concen: 3.727 ng

RT: 9.775 min Scan# 11

Delta R.T. -0.006 min

Lab File: BF140303.D

Acq: 08 Nov 2024 17:10

Instrument :

BNA_F

ClientSampleId :

WC-2(0-6)

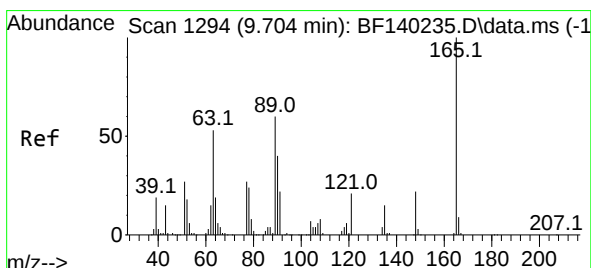
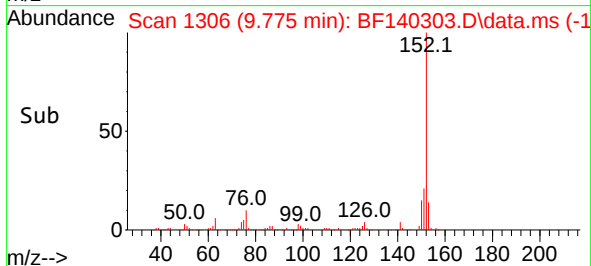
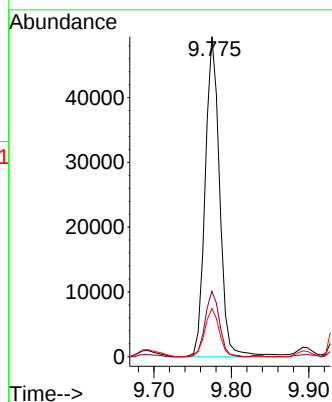
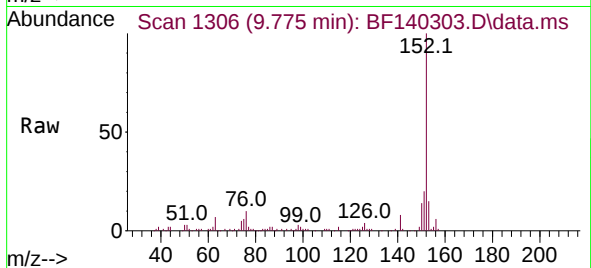
Tgt Ion:152 Resp: 63951

Ion Ratio Lower Upper

152 100

151 20.5 16.4 24.6

153 15.0 11.1 16.7



#51

2,6-Dinitrotoluene

Concen: 9.550 ng

RT: 9.916 min Scan# 1330

Delta R.T. 0.212 min

Lab File: BF140303.D

Acq: 08 Nov 2024 17:10

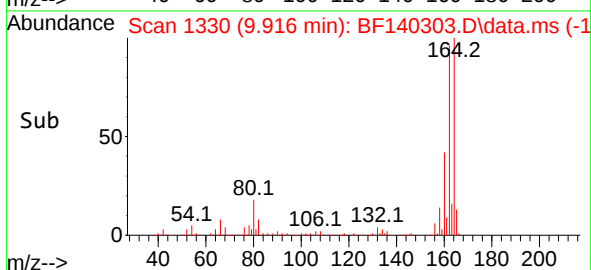
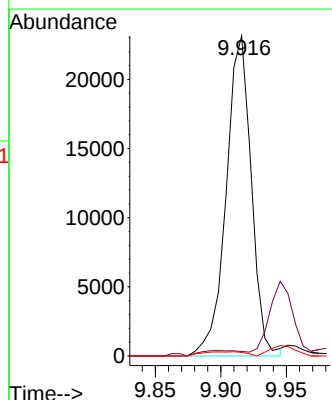
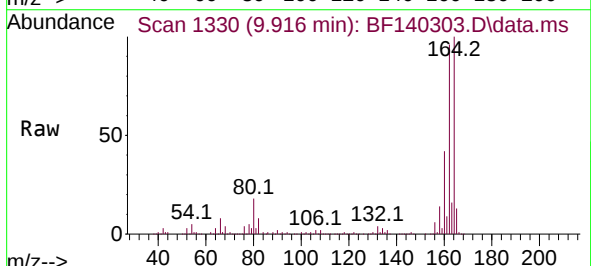
Tgt Ion:165 Resp: 30799

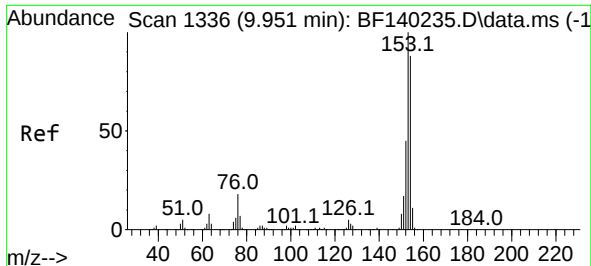
Ion Ratio Lower Upper

165 100

63 1.4 48.8 73.2#

89 1.1 48.1 72.1#

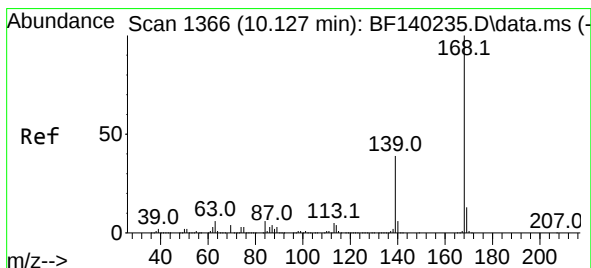
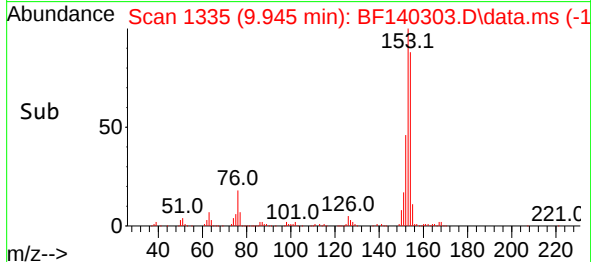
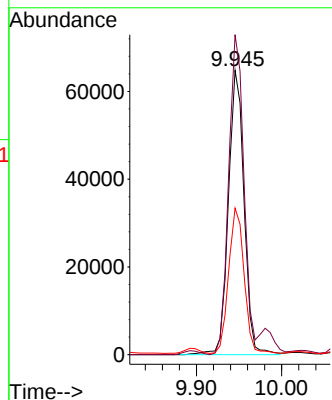
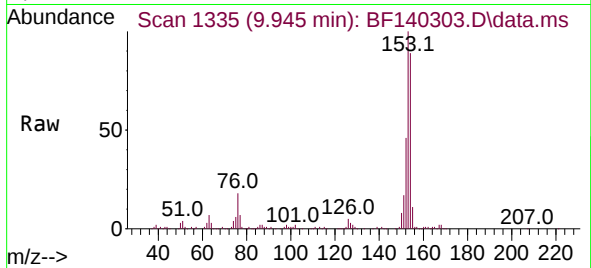




#52
Acenaphthene
Concen: 6.784 ng
RT: 9.945 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF140303.D
Acq: 08 Nov 2024 17:10

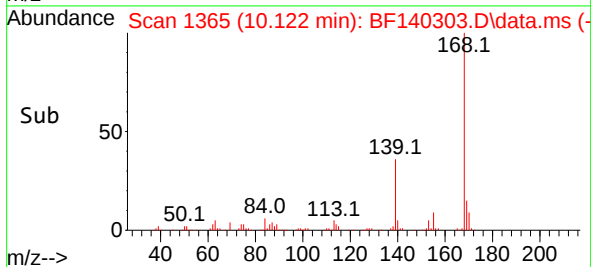
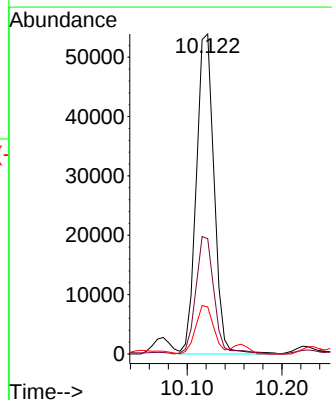
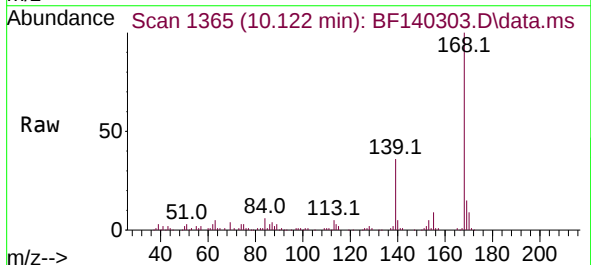
Instrument :
BNA_F
ClientSampleId :
WC-2(0-6)

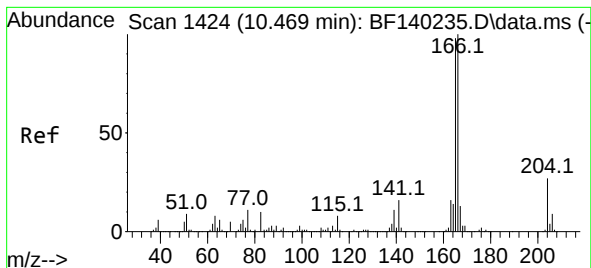
Tgt Ion:154 Resp: 82571
Ion Ratio Lower Upper
154 100
153 112.6 91.3 136.9
152 51.5 41.4 62.2



#55
Dibenzofuran
Concen: 4.124 ng
RT: 10.122 min Scan# 1365
Delta R.T. -0.005 min
Lab File: BF140303.D
Acq: 08 Nov 2024 17:10

Tgt Ion:168 Resp: 70193
Ion Ratio Lower Upper
168 100
139 36.0 31.5 47.3
169 14.7 10.6 15.8





#58

Fluorene

Concen: 5.568 ng

RT: 10.463 min Scan# 1423

Delta R.T. -0.006 min

Lab File: BF140303.D

Acq: 08 Nov 2024 17:10

Instrument :

BNA_F

ClientSampleId :

WC-2(0-6)

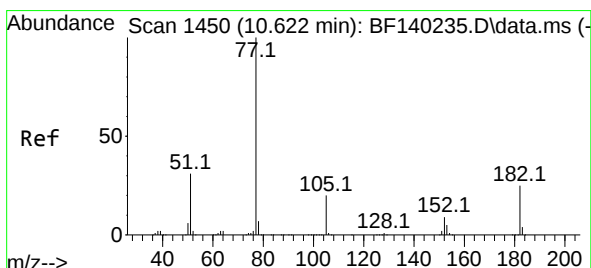
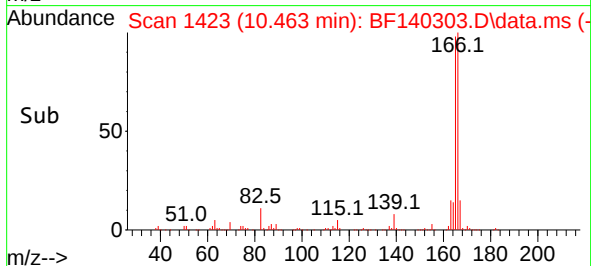
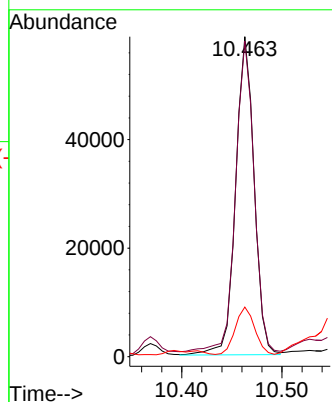
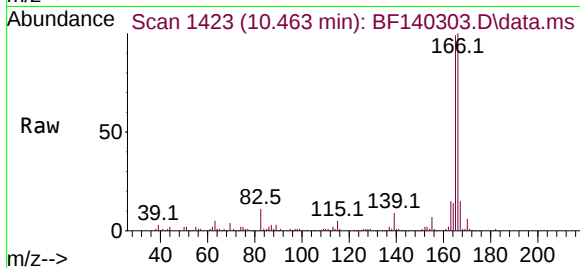
Tgt Ion:166 Resp: 75439

Ion Ratio Lower Upper

166 100

165 98.6 78.7 118.1

167 15.5 10.8 16.2



#63

Azobenzene

Concen: 3.037 ng

RT: 10.628 min Scan# 1451

Delta R.T. 0.006 min

Lab File: BF140303.D

Acq: 08 Nov 2024 17:10

Tgt Ion: 77 Resp: 42922

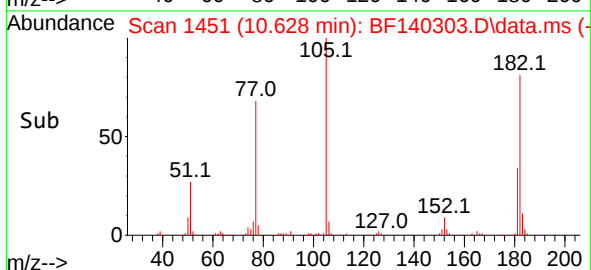
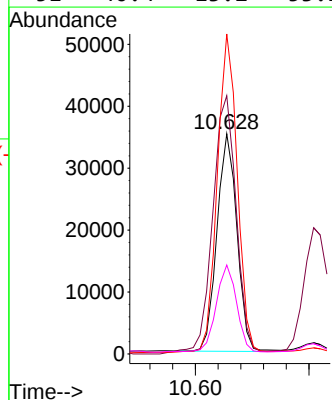
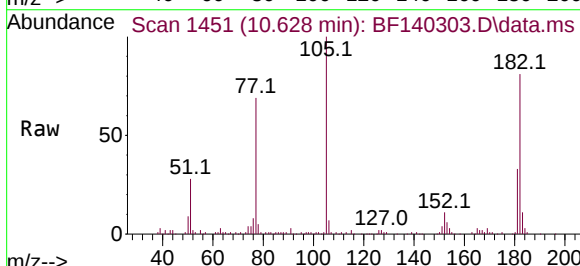
Ion Ratio Lower Upper

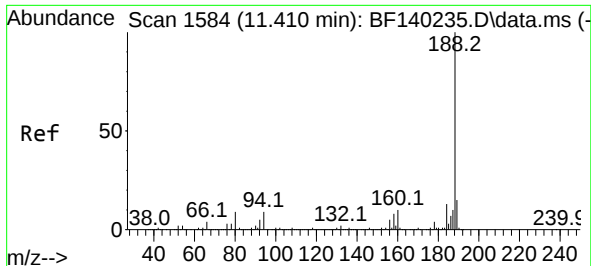
77 100

182 117.4 4.7 44.7#

105 145.4 0.0 40.0#

51 40.4 13.2 53.2

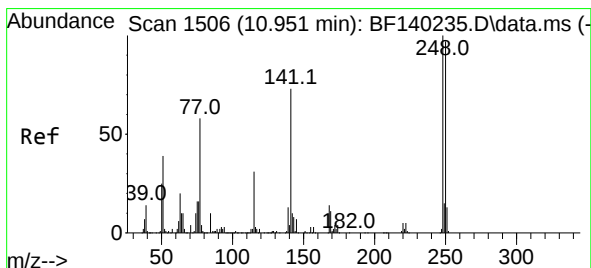
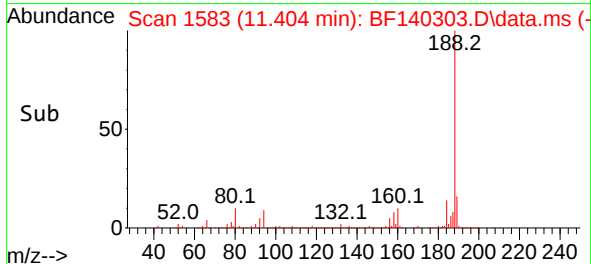
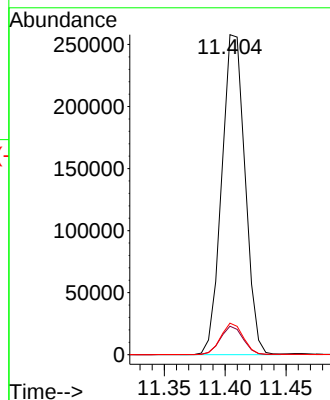
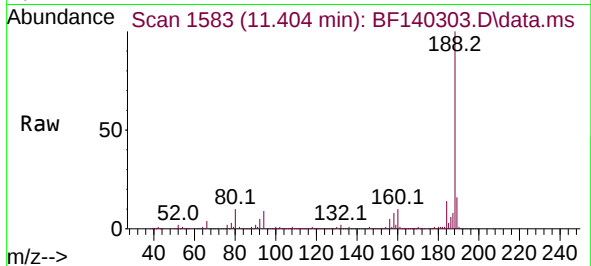




#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.404 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF140303.D
Acq: 08 Nov 2024 17:10

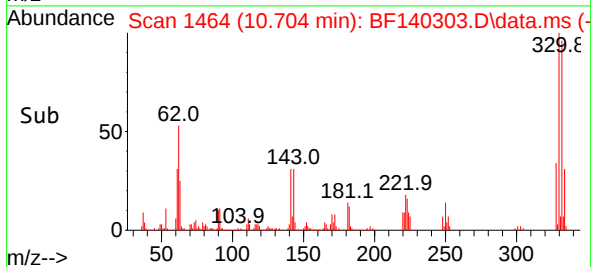
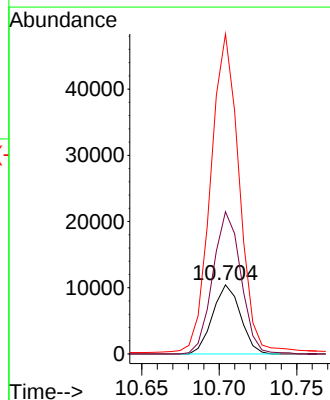
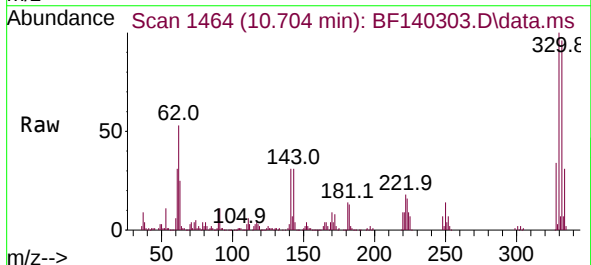
Instrument :
BNA_F
ClientSampleId :
WC-2(0-6)

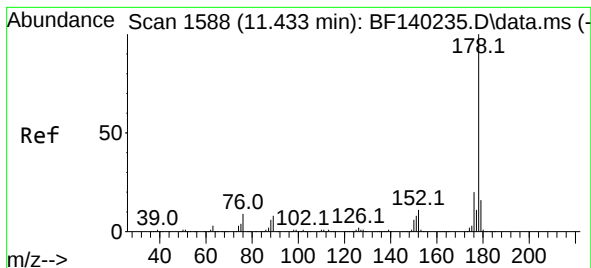
Tgt Ion:188 Resp: 343931
Ion Ratio Lower Upper
188 100
94 8.9 6.9 10.3
80 9.8 7.5 11.3



#67
4-Bromophenyl-phenylether
Concen: 3.523 ng
RT: 10.704 min Scan# 1464
Delta R.T. -0.247 min
Lab File: BF140303.D
Acq: 08 Nov 2024 17:10

Tgt Ion:248 Resp: 13047
Ion Ratio Lower Upper
248 100
250 205.8 77.9 116.9#
141 462.9 58.6 88.0#





#71

Phenanthrene

Concen: 58.965 ng

RT: 11.433 min Scan# 1588

Delta R.T. 0.000 min

Lab File: BF140303.D

Acq: 08 Nov 2024 17:10

Instrument :

BNA_F

ClientSampleId :

WC-2(0-6)

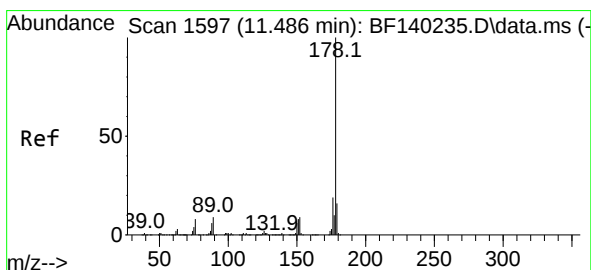
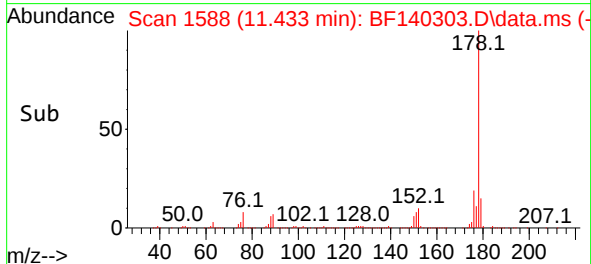
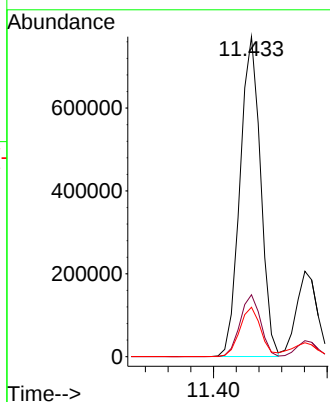
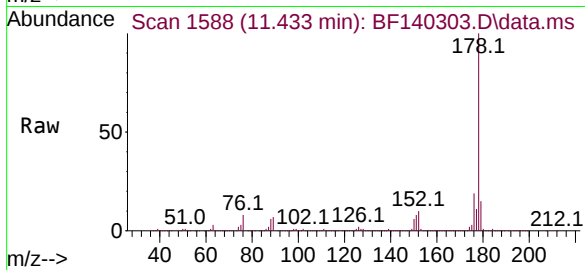
Tgt Ion:178 Resp: 967820

Ion Ratio Lower Upper

178 100

176 19.4 15.9 23.9

179 15.4 12.6 18.8



#72

Anthracene

Concen: 16.309 ng

RT: 11.480 min Scan# 1596

Delta R.T. -0.006 min

Lab File: BF140303.D

Acq: 08 Nov 2024 17:10

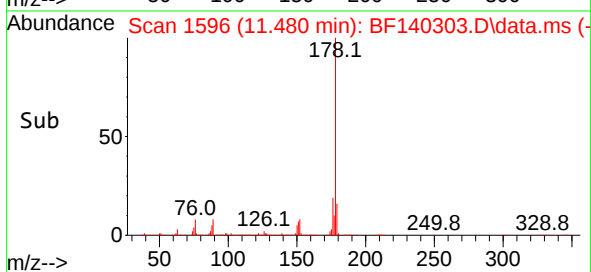
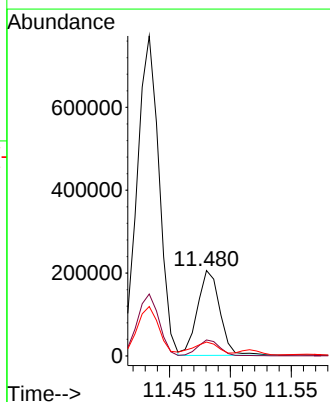
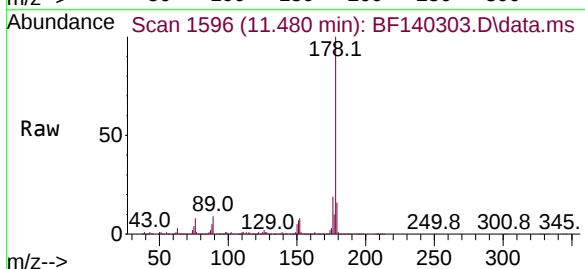
Tgt Ion:178 Resp: 262486

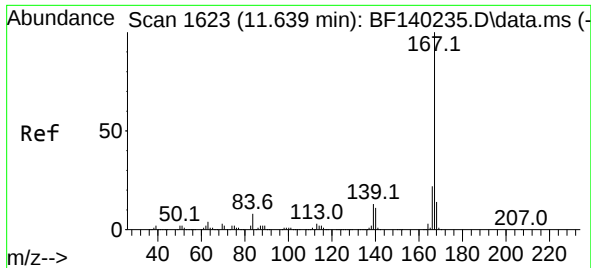
Ion Ratio Lower Upper

178 100

176 18.8 15.4 23.0

179 16.3 12.7 19.1

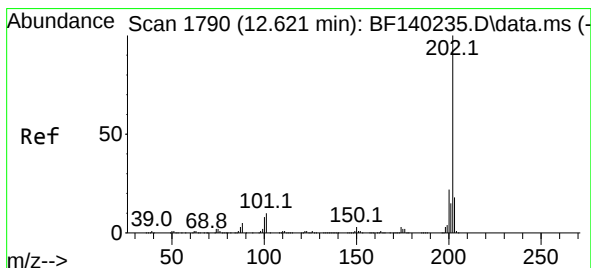
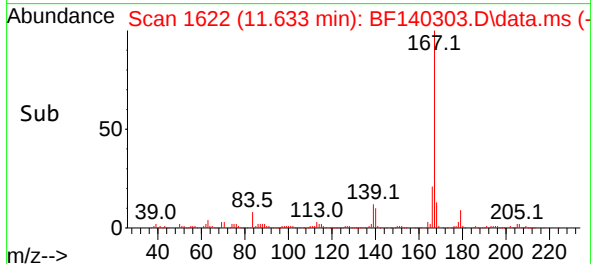
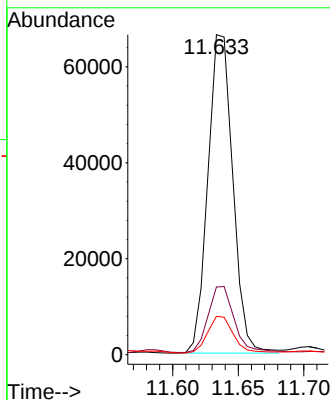
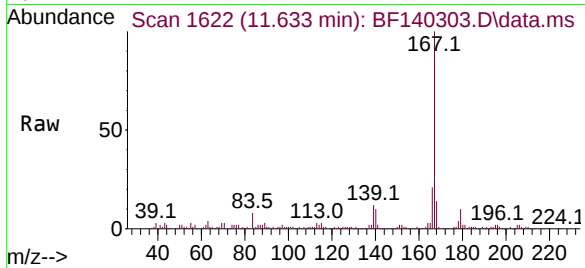




#73
Carbazole
Concen: 5.984 ng
RT: 11.633 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF140303.D
Acq: 08 Nov 2024 17:10

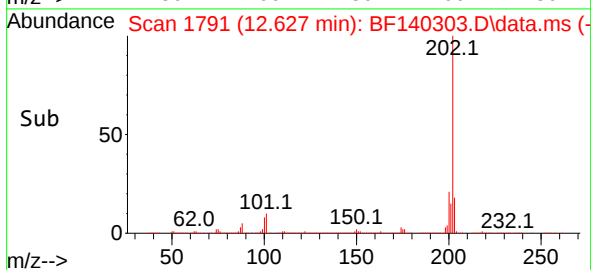
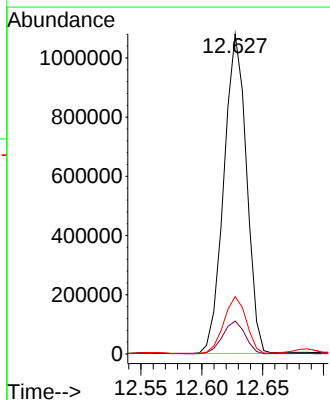
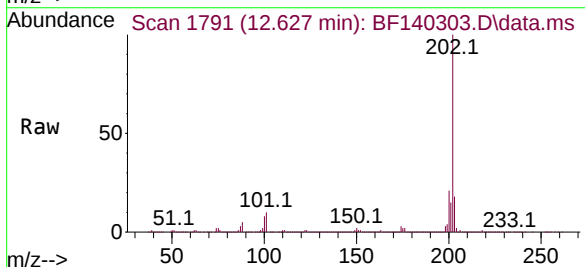
Instrument :
BNA_F
ClientSampleId :
WC-2(0-6)

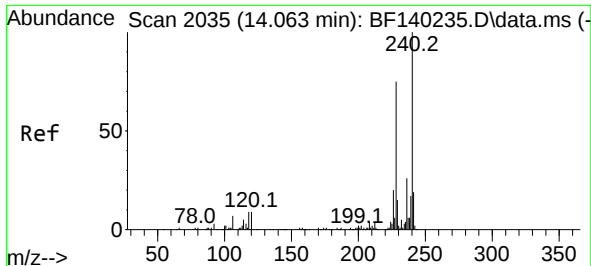
Tgt Ion	Ratio	Lower	Upper
167	100		
166	21.2	17.3	25.9
139	12.0	10.7	16.1



#75
Fluoranthene
Concen: 81.289 ng
RT: 12.627 min Scan# 1791
Delta R.T. 0.006 min
Lab File: BF140303.D
Acq: 08 Nov 2024 17:10

Tgt Ion	Ratio	Lower	Upper
202	100		
101	10.3	0.0	30.4
203	17.9	0.0	38.0

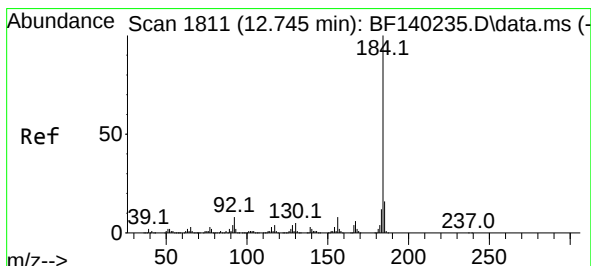
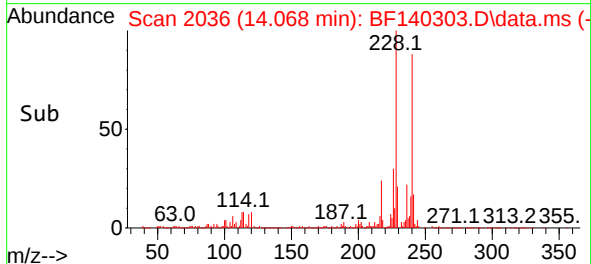
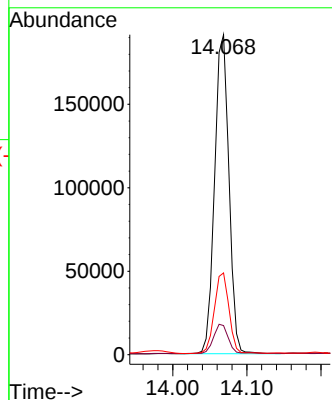
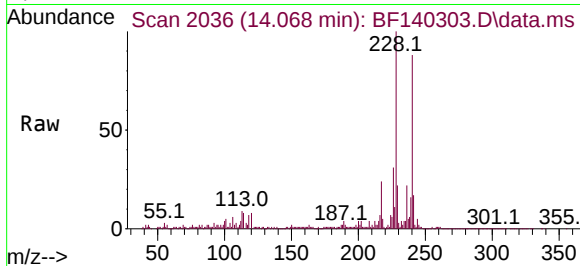




#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.068 min Scan# 2035
Delta R.T. 0.006 min
Lab File: BF140303.D
Acq: 08 Nov 2024 17:10

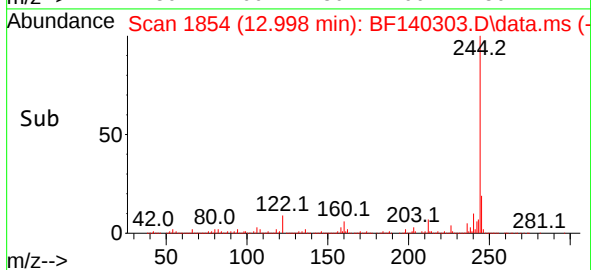
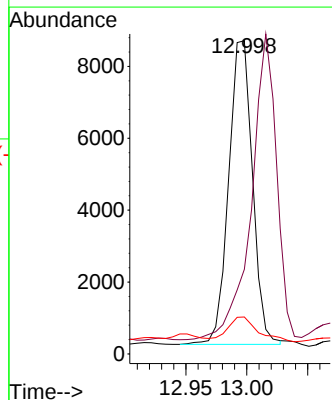
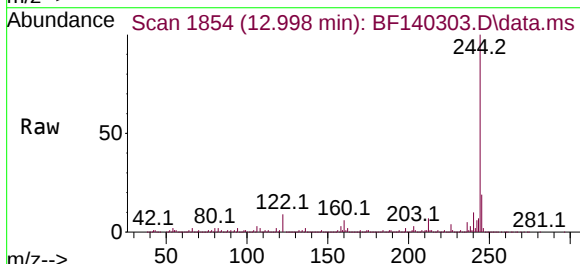
Instrument :
BNA_F
ClientSampleId :
WC-2(0-6)

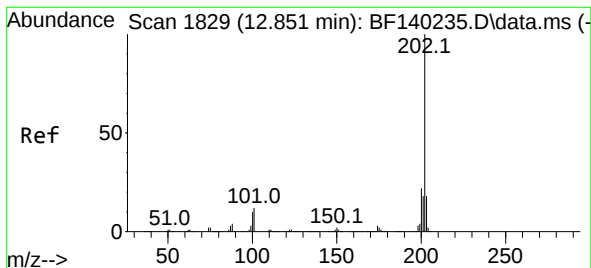
Tgt Ion:240 Resp: 256443
Ion Ratio Lower Upper
240 100
120 9.1 7.5 11.3
236 25.6 20.9 31.3



#77
Benzidine
Concen: 2.292 ng
RT: 12.998 min Scan# 1854
Delta R.T. 0.253 min
Lab File: BF140303.D
Acq: 08 Nov 2024 17:10

Tgt Ion:184 Resp: 11493
Ion Ratio Lower Upper
184 100
185 27.0 12.5 18.7#
183 11.8 9.3 13.9





#78

Pyrene

Concen: 62.039 ng

RT: 12.857 min Scan# 1830

Delta R.T. 0.006 min

Lab File: BF140303.D

Acq: 08 Nov 2024 17:10

Instrument :

BNA_F

ClientSampleId :

WC-2(0-6)

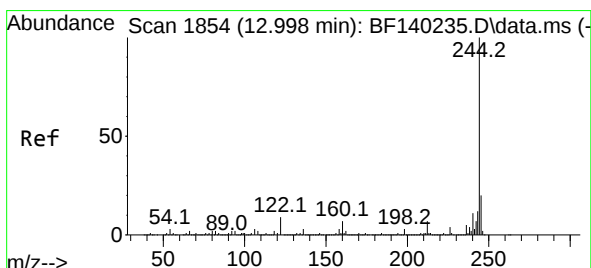
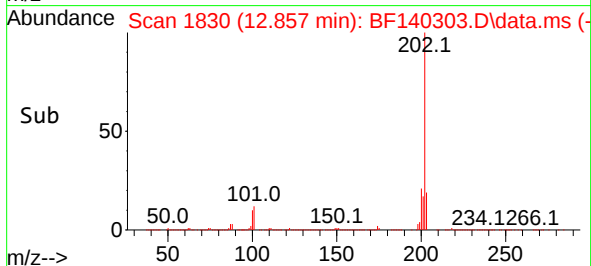
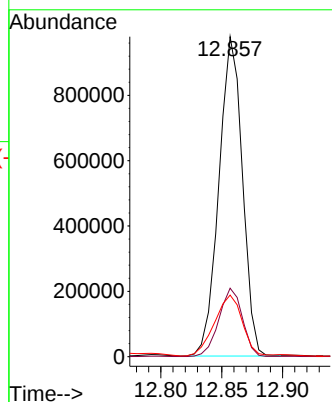
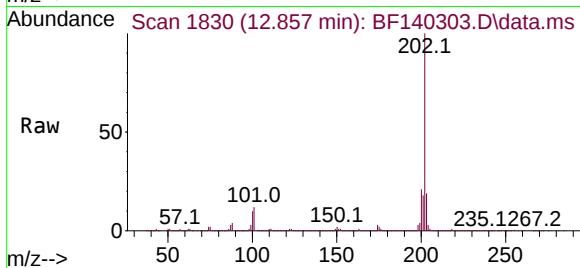
Tgt Ion:202 Resp: 1313608

Ion Ratio Lower Upper

202 100

200 21.4 17.5 26.3

203 19.3 14.4 21.6



#79

Terphenyl-d14

Concen: 58.294 ng

RT: 12.998 min Scan# 1854

Delta R.T. 0.000 min

Lab File: BF140303.D

Acq: 08 Nov 2024 17:10

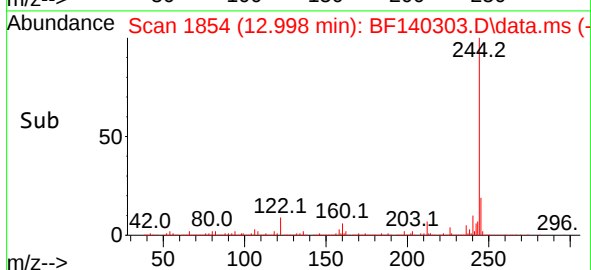
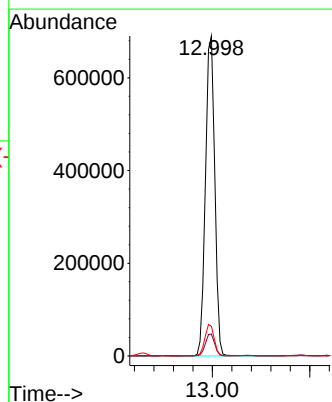
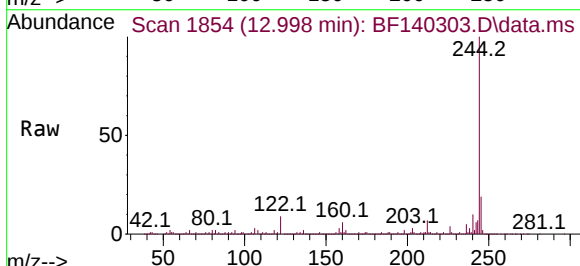
Tgt Ion:244 Resp: 912564

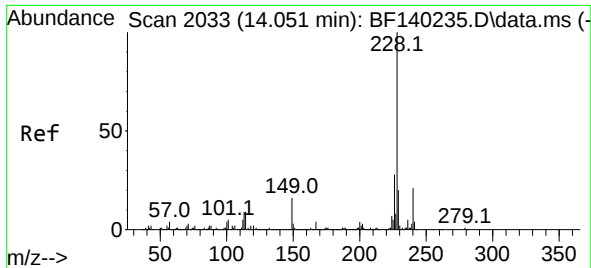
Ion Ratio Lower Upper

244 100

212 6.8 6.0 9.0

122 9.2 7.6 11.4

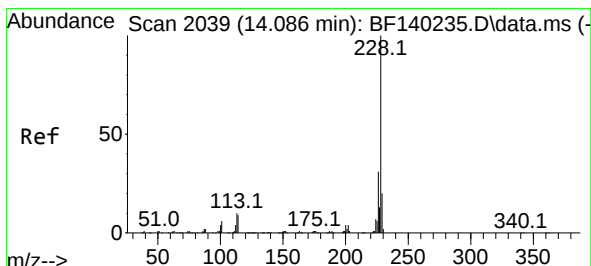
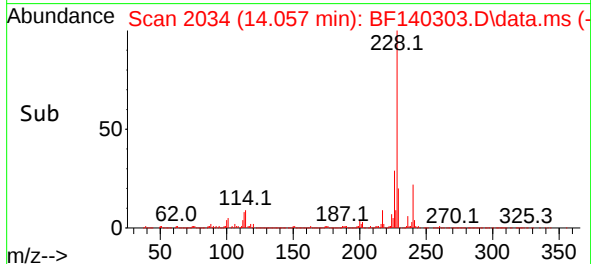
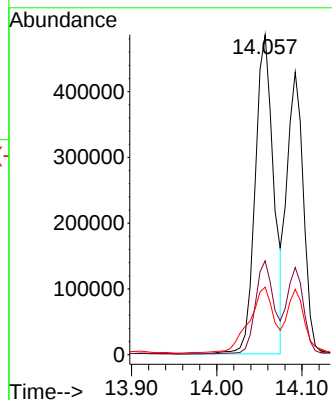
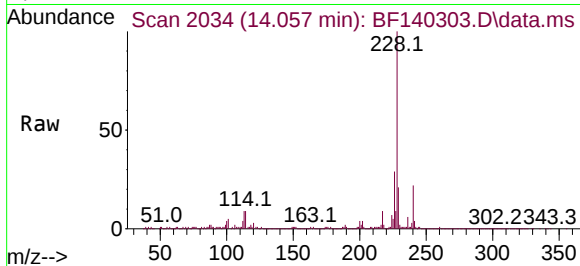




#81
Benzo(a)anthracene
Concen: 44.624 ng
RT: 14.057 min Scan# 2034
Delta R.T. 0.006 min
Lab File: BF140303.D
Acq: 08 Nov 2024 17:10

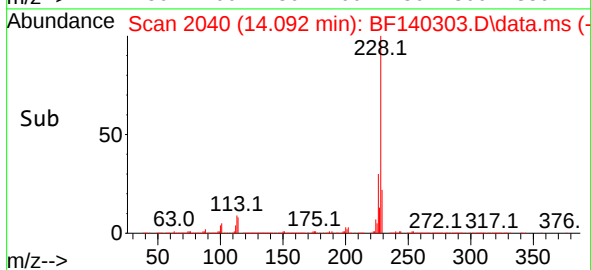
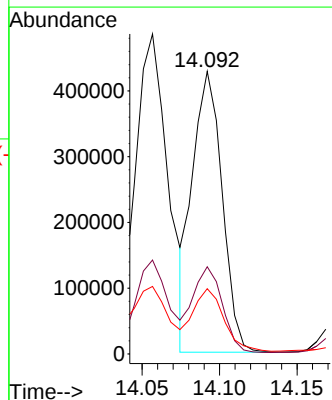
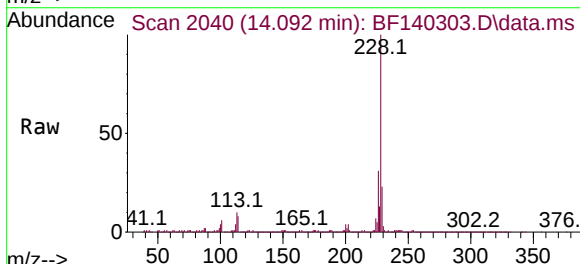
Instrument :
BNA_F
ClientSampleId :
WC-2(0-6)

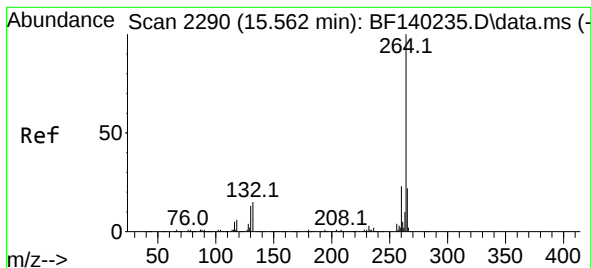
Tgt Ion:228 Resp: 734398
Ion Ratio Lower Upper
228 100
226 29.4 22.3 33.5
229 21.1 16.1 24.1



#83
Chrysene
Concen: 36.784 ng
RT: 14.092 min Scan# 2040
Delta R.T. 0.006 min
Lab File: BF140303.D
Acq: 08 Nov 2024 17:10

Tgt Ion:228 Resp: 566900
Ion Ratio Lower Upper
228 100
226 30.9 24.6 36.8
229 23.1 16.1 24.1





#86

Perylene-d12

Concen: 20.000 ng

RT: 15.580 min Scan# 21

Delta R.T. 0.018 min

Lab File: BF140303.D

Acq: 08 Nov 2024 17:10

Instrument :

BNA_F

ClientSampleId :

WC-2(0-6)

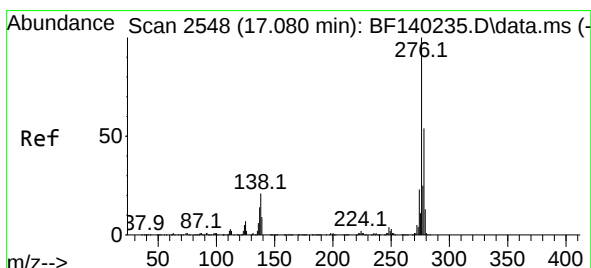
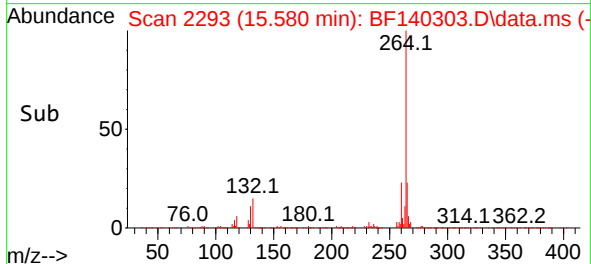
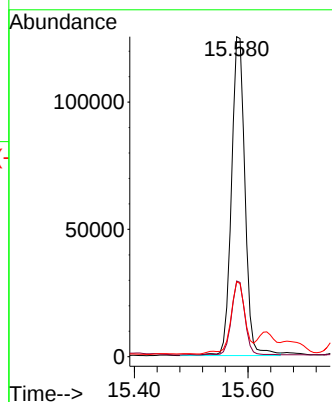
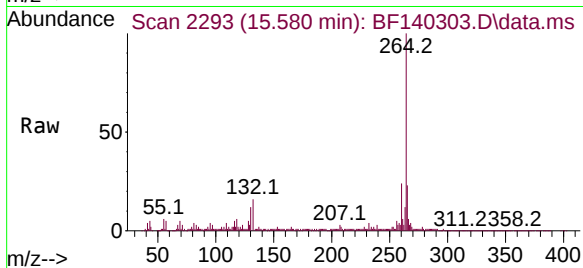
Tgt Ion:264 Resp: 206534

Ion Ratio Lower Upper

264 100

260 23.7 18.8 28.2

265 23.4 17.3 25.9



#87

Indeno(1,2,3-cd)pyrene

Concen: 20.940 ng

RT: 17.098 min Scan# 2551

Delta R.T. 0.018 min

Lab File: BF140303.D

Acq: 08 Nov 2024 17:10

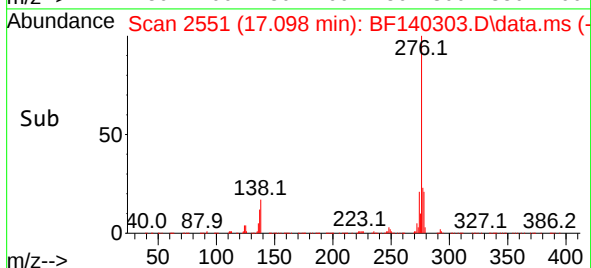
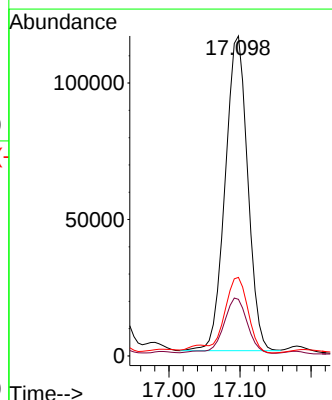
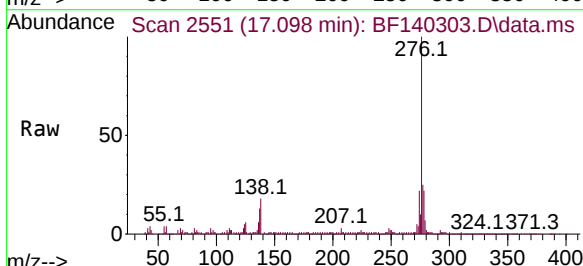
Tgt Ion:276 Resp: 253871

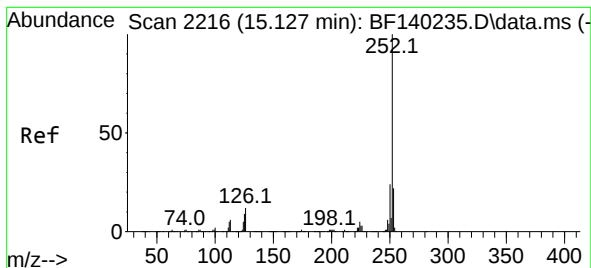
Ion Ratio Lower Upper

276 100

138 18.6 17.6 26.4

277 24.3 20.2 30.2





#88

Benzo(b)fluoranthene

Concen: 68.443 ng

RT: 15.145 min Scan# 2219

Delta R.T. 0.018 min

Lab File: BF140303.D

Acq: 08 Nov 2024 17:10

Instrument :

BNA_F

ClientSampleId :

WC-2(0-6)

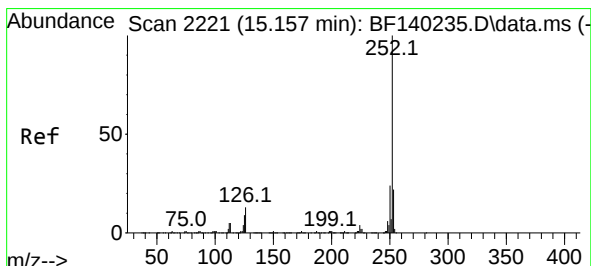
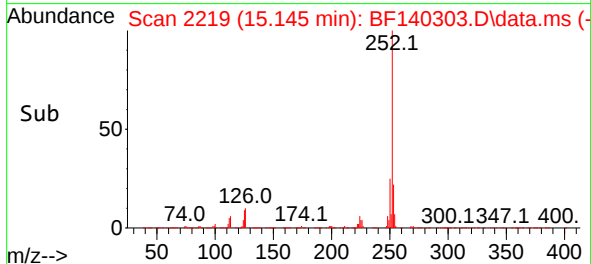
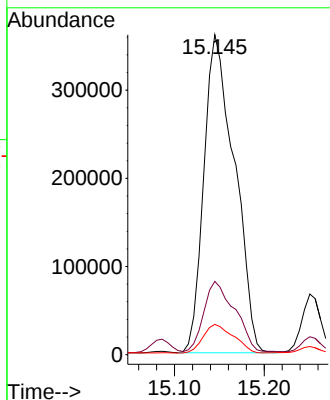
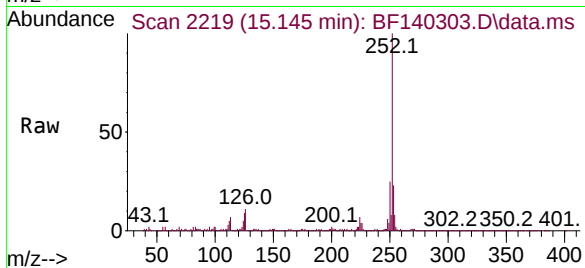
Tgt Ion:252 Resp: 855045

Ion Ratio Lower Upper

252 100

253 22.9 17.9 26.9

125 9.5 7.0 10.6



#89

Benzo(k)fluoranthene

Concen: 74.588 ng

RT: 15.145 min Scan# 2219

Delta R.T. -0.012 min

Lab File: BF140303.D

Acq: 08 Nov 2024 17:10

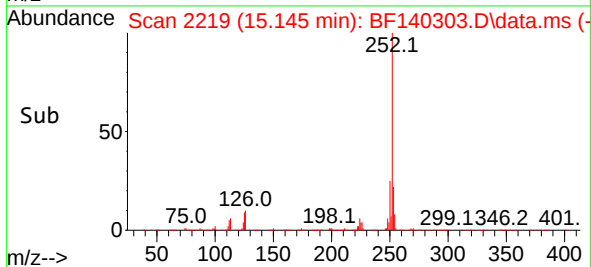
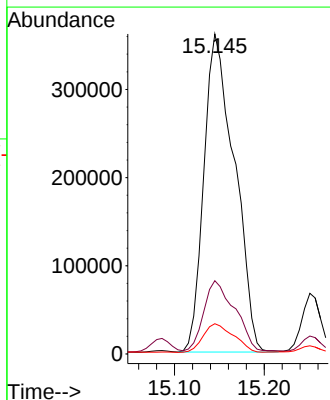
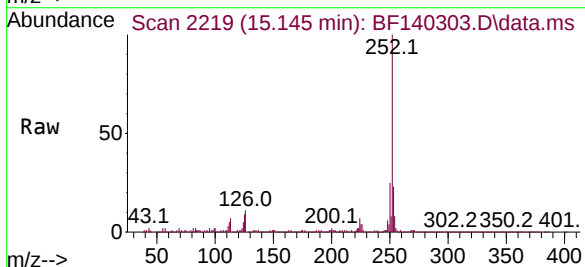
Tgt Ion:252 Resp: 855045

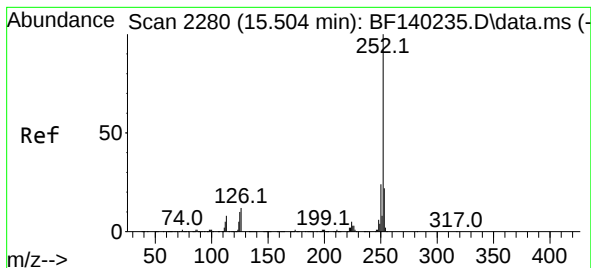
Ion Ratio Lower Upper

252 100

253 22.9 17.8 26.8

125 9.5 7.2 10.8





#90

Benzo(a)pyrene

Concen: 43.121 ng

RT: 15.515 min Scan# 21

Delta R.T. 0.012 min

Lab File: BF140303.D

Acq: 08 Nov 2024 17:10

Instrument :

BNA_F

ClientSampleId :

WC-2(0-6)

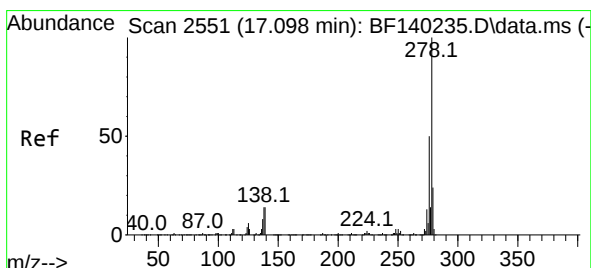
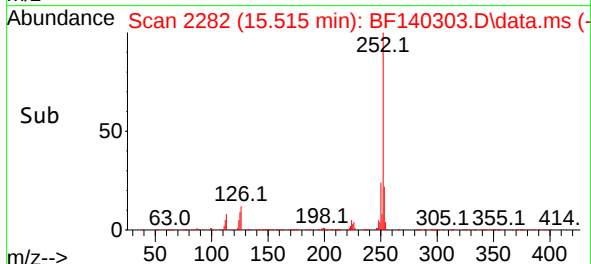
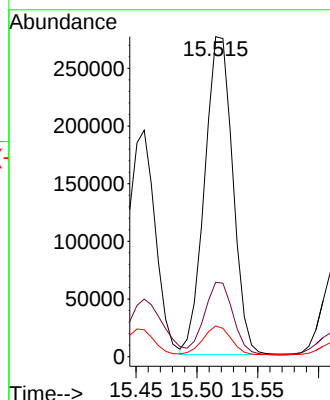
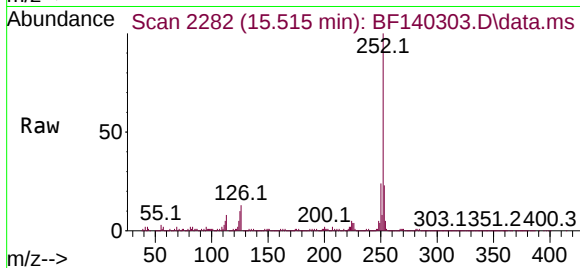
Tgt Ion:252 Resp: 444148

Ion Ratio Lower Upper

252 100

253 23.3 17.4 26.0

125 9.6 7.6 11.4



#91

Dibenzo(a,h)anthracene

Concen: 5.179 ng

RT: 17.280 min Scan# 2582

Delta R.T. 0.182 min

Lab File: BF140303.D

Acq: 08 Nov 2024 17:10

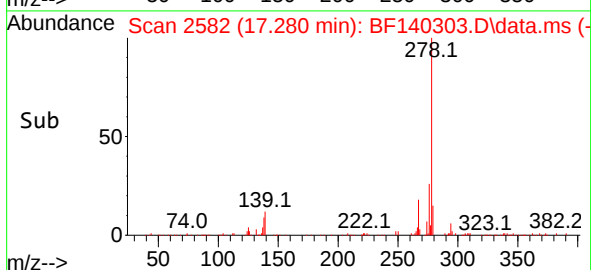
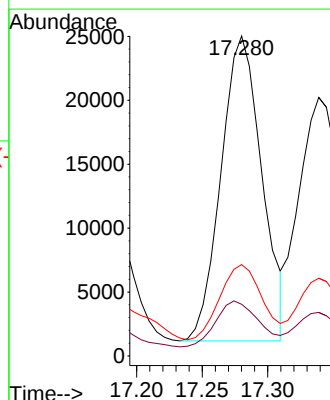
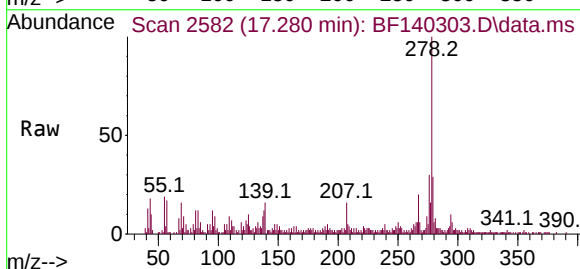
Tgt Ion:278 Resp: 51653

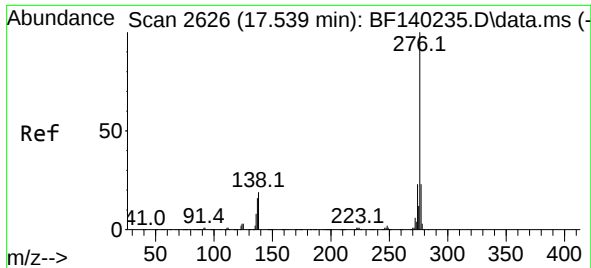
Ion Ratio Lower Upper

278 100

139 16.2 11.1 16.7

279 28.5 19.1 28.7





#92
 Benzo(g,h,i)perylene
 Concen: 25.156 ng
 RT: 17.557 min Scan# 20
 Delta R.T. 0.018 min
 Lab File: BF140303.D
 Acq: 08 Nov 2024 17:10

Instrument :
 BNA_F
 ClientSampleId :
 WC-2(0-6)

Tgt Ion:276 Resp: 255958
 Ion Ratio Lower Upper
 276 100
 277 23.8 18.8 28.2
 138 18.3 15.3 22.9

