

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF091824\
 Data File : BF139451.D
 Acq On : 19 Sep 2024 03:22
 Operator : RC/JU
 Sample : P4098-03 5X
 Misc :
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 HR-04-091724

Quant Time: Sep 19 03:55:56 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF091324.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Sat Sep 14 02:58:23 2024
 Response via : Initial Calibration

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

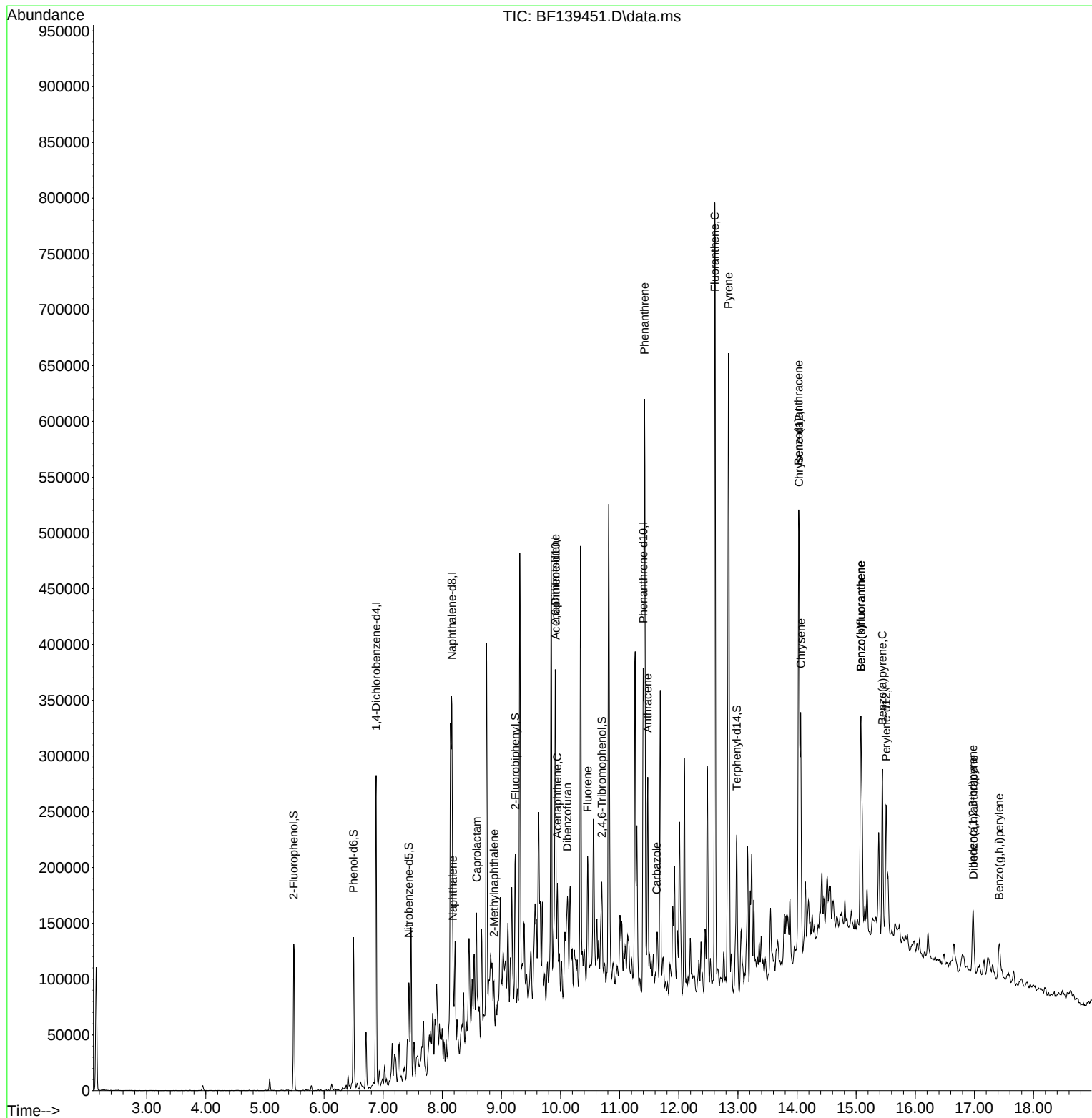
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.881	152	51000	20.000	ng	0.00
21) Naphthalene-d8	8.163	136	168609	20.000	ng	0.00
39) Acenaphthene-d10	9.916	164	77272	20.000	ng	0.00
64) Phenanthrene-d10	11.398	188	138526	20.000	ng	0.00
76) Chrysene-d12	14.033	240	82690	20.000	ng	0.00
86) Perylene-d12	15.510	264	68239	20.000	ng	0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.487	112	42765	13.679	ng	0.00
7) Phenol-d6	6.498	99	52668	12.835	ng	0.00
23) Nitrobenzene-d5	7.434	82	33489	9.337	ng	-0.01
42) 2,4,6-Tribromophenol	10.698	330	9353	11.369	ng	0.00
45) 2-Fluorobiphenyl	9.234	172	55652	10.101	ng	0.00
79) Terphenyl-d14	12.980	244	55559	11.028	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	8.181	128	21267	2.416	ng	# 93
35) Caprolactam	8.581	113	2719	3.668	ng	# 1
37) 2-Methylnaphthalene	8.875	142	12438	2.226	ng	96
51) 2,6-Dinitrotoluene	9.910	165	12688	11.293	ng	# 19
52) Acenaphthene	9.945	154	21413	4.585	ng	97
55) Dibenzofuran	10.116	168	25481	3.915	ng	# 93
58) Fluorene	10.457	166	37174	7.000	ng	# 97
71) Phenanthrene	11.422	178	263676	39.453	ng	99
72) Anthracene	11.475	178	96088	14.705	ng	99
73) Carbazole	11.628	167	14490	2.317	ng	93
75) Fluoranthene	12.610	202	398509	55.835	ng	98
78) Pyrene	12.839	202	319263	44.966	ng	98
81) Benzo(a)anthracene	14.027	228	159967	29.205	ng	97
83) Chrysene	14.063	228	106720	21.178	ng	97
87) Indeno(1,2,3-cd)pyrene	16.974	276	43228	10.653	ng	97
88) Benzo(b)fluoranthene	15.080	252	168662	40.076	ng	# 96
89) Benzo(k)fluoranthene	15.080	252	168662	43.465	ng	# 95
90) Benzo(a)pyrene	15.445	252	89061	25.516	ng	97
91) Dibenzo(a,h)anthracene	16.986	278	11260	3.358	ng	# 77
92) Benzo(g,h,i)perylene	17.421	276	35983	10.839	ng	96

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF091824\
Data File : BF139451.D
Acq On : 19 Sep 2024 03:22
Operator : RC/JU
Sample : P4098-03 5X
Misc :
ALS Vial : 25 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
HR-04-091724

Quant Time: Sep 19 03:55:56 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF091324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Sat Sep 14 02:58:23 2024
Response via : Initial Calibration

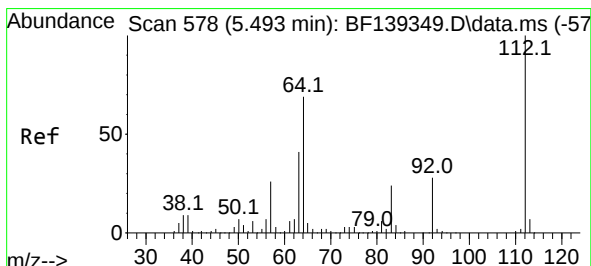
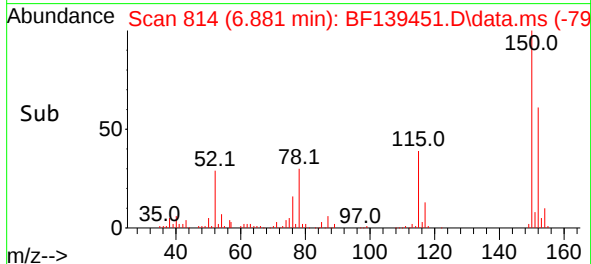
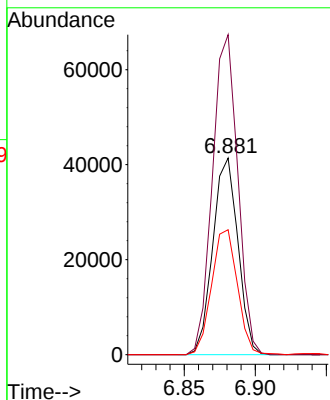
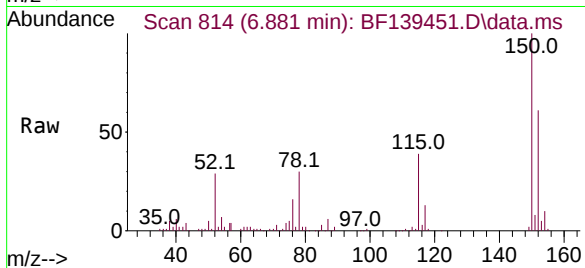




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.881 min Scan# 814
Delta R.T. -0.000 min
Lab File: BF139451.D
Acq: 19 Sep 2024 03:22

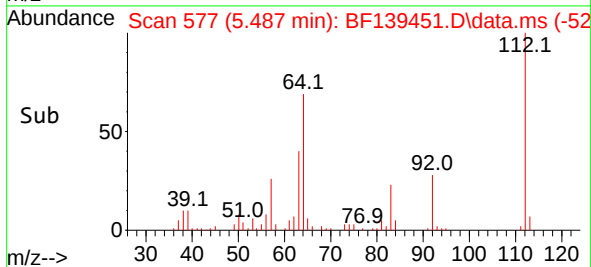
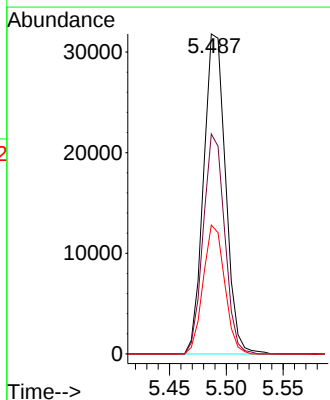
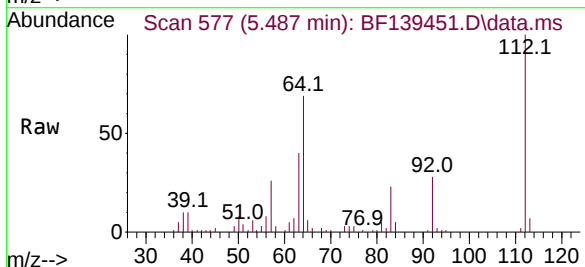
Instrument :
BNA_F
ClientSampleId :
HR-04-091724

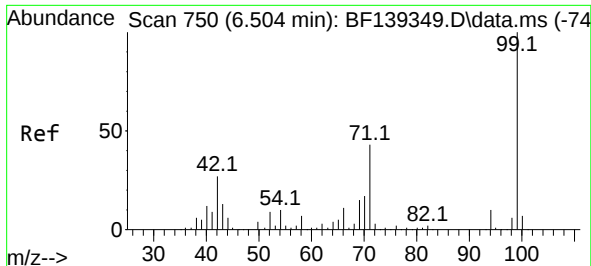
Tgt Ion:152 Resp: 51000
Ion Ratio Lower Upper
152 100
150 162.7 124.1 186.1
115 63.6 48.1 72.1



#5
2-Fluorophenol
Concen: 13.679 ng
RT: 5.487 min Scan# 577
Delta R.T. -0.006 min
Lab File: BF139451.D
Acq: 19 Sep 2024 03:22

Tgt Ion:112 Resp: 42765
Ion Ratio Lower Upper
112 100
64 68.7 54.8 82.2
63 40.3 33.0 49.4

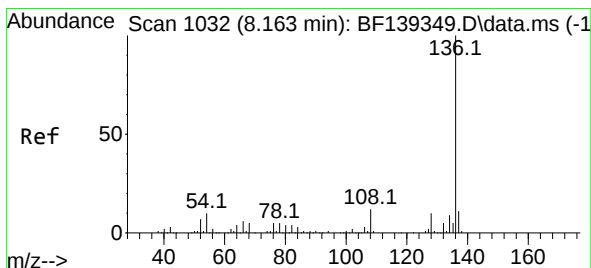
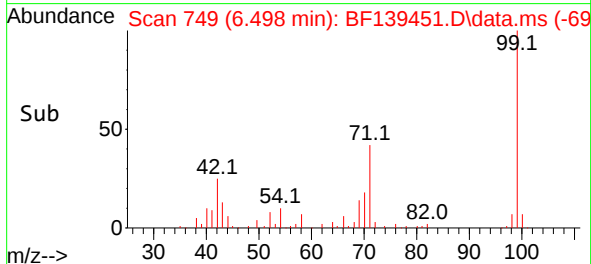
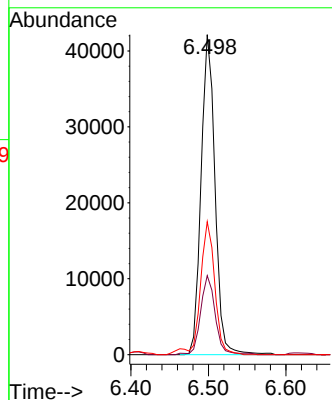
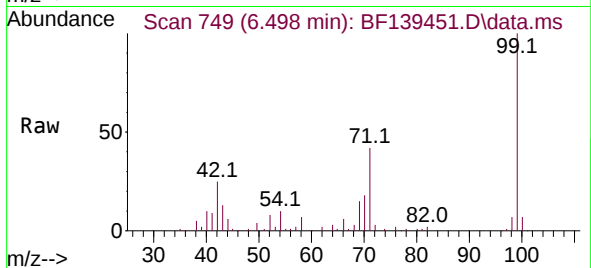




#7
Phenol-d6
Concen: 12.835 ng
RT: 6.498 min Scan# 749
Delta R.T. -0.006 min
Lab File: BF139451.D
Acq: 19 Sep 2024 03:22

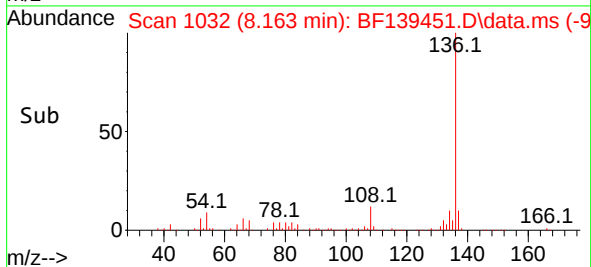
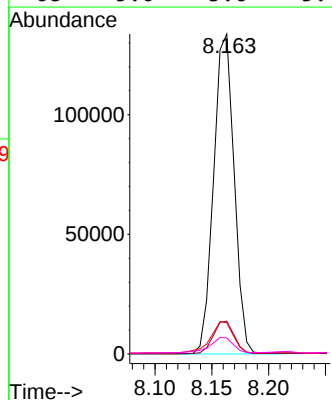
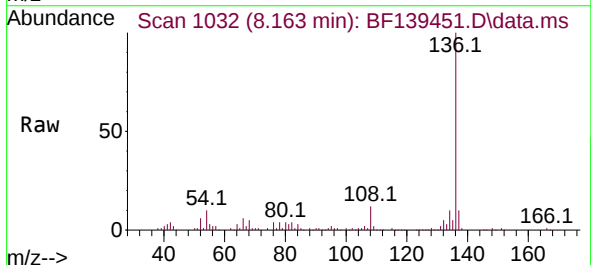
Instrument :
BNA_F
ClientSampleId :
HR-04-091724

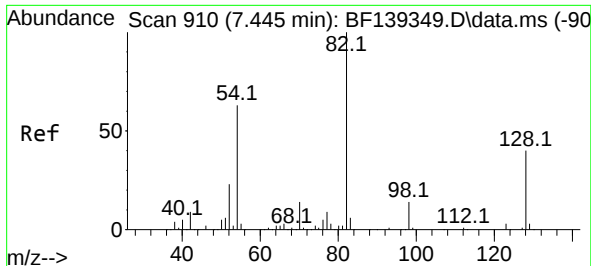
Tgt Ion: 99 Resp: 52668
Ion Ratio Lower Upper
99 100
42 24.7 21.9 32.9
71 41.5 34.6 52.0



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.163 min Scan# 1032
Delta R.T. -0.000 min
Lab File: BF139451.D
Acq: 19 Sep 2024 03:22

Tgt Ion: 136 Resp: 168609
Ion Ratio Lower Upper
136 100
137 10.3 8.6 12.8
54 9.8 7.8 11.8
68 5.0 3.6 5.4





#23

Nitrobenzene-d5

Concen: 9.337 ng

RT: 7.434 min Scan# 90

Delta R.T. -0.012 min

Lab File: BF139451.D

Acq: 19 Sep 2024 03:22

Instrument :

BNA_F

ClientSampleId :

HR-04-091724

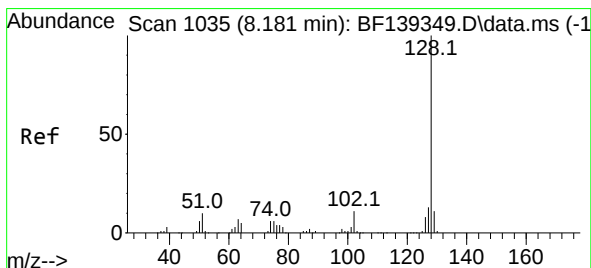
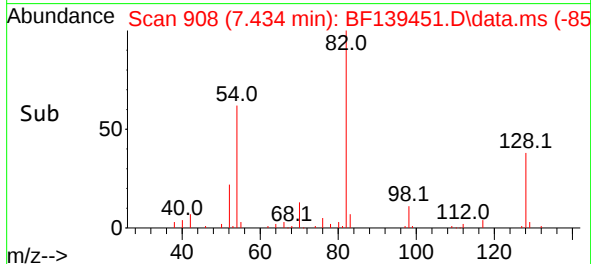
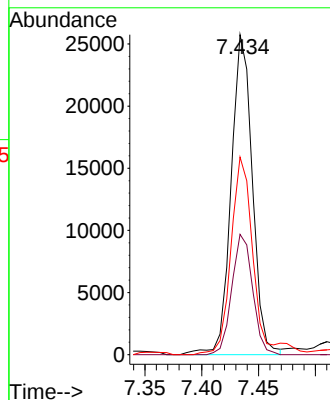
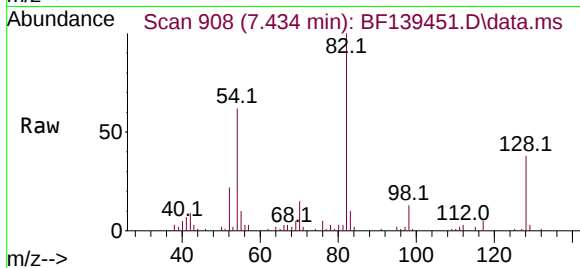
Tgt Ion: 82 Resp: 33489

Ion Ratio Lower Upper

82 100

128 37.6 31.8 47.6

54 61.7 50.6 75.8



#31

Naphthalene

Concen: 2.416 ng

RT: 8.181 min Scan# 1035

Delta R.T. -0.000 min

Lab File: BF139451.D

Acq: 19 Sep 2024 03:22

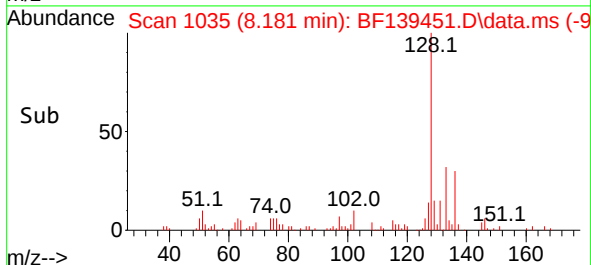
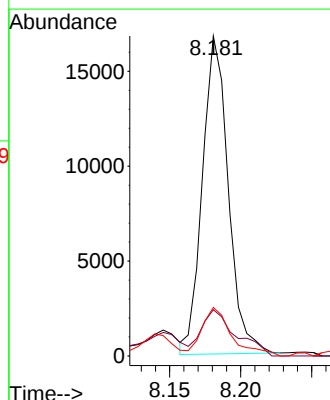
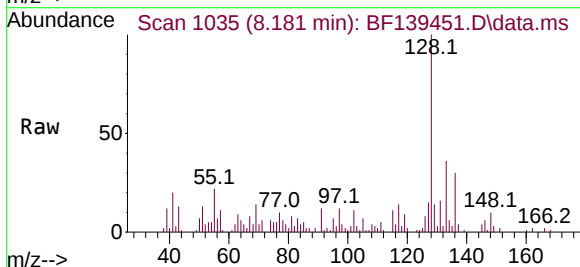
Tgt Ion:128 Resp: 21267

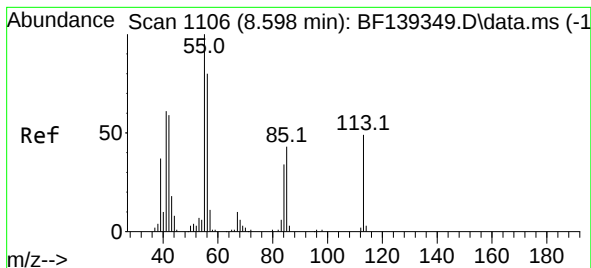
Ion Ratio Lower Upper

128 100

129 14.5 8.6 13.0#

127 15.1 10.6 16.0





#35

Caprolactam

Concen: 3.668 ng

RT: 8.581 min Scan# 1103

Delta R.T. -0.018 min

Lab File: BF139451.D

Acq: 19 Sep 2024 03:22

Instrument :

BNA_F

ClientSampleId :

HR-04-091724

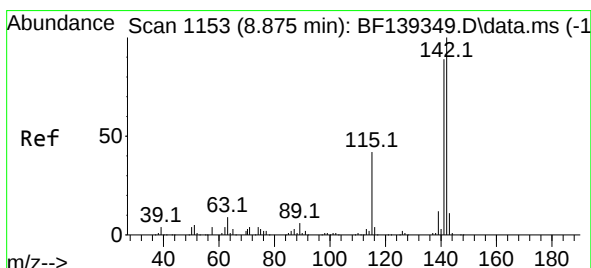
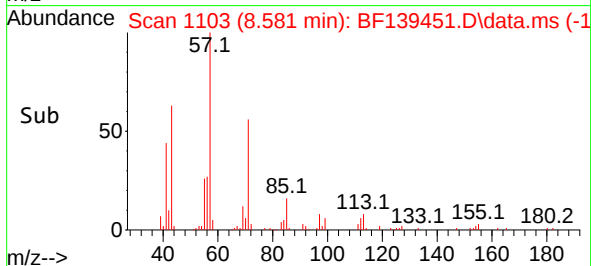
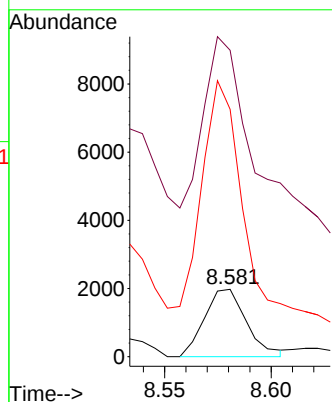
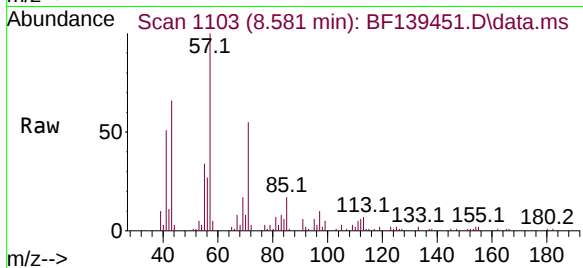
Tgt Ion:113 Resp: 2719

Ion Ratio Lower Upper

113 100

55 455.0 186.1 226.1#

56 367.1 144.9 184.9#



#37

2-Methylnaphthalene

Concen: 2.226 ng

RT: 8.875 min Scan# 1153

Delta R.T. -0.000 min

Lab File: BF139451.D

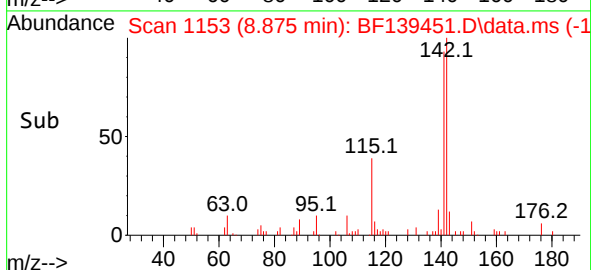
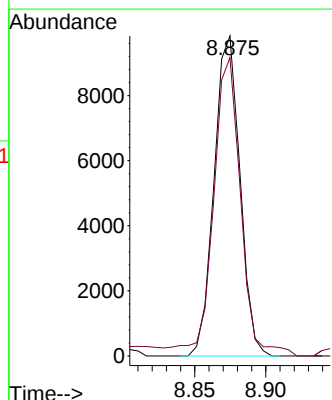
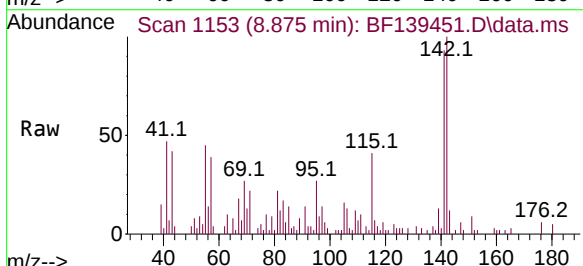
Acq: 19 Sep 2024 03:22

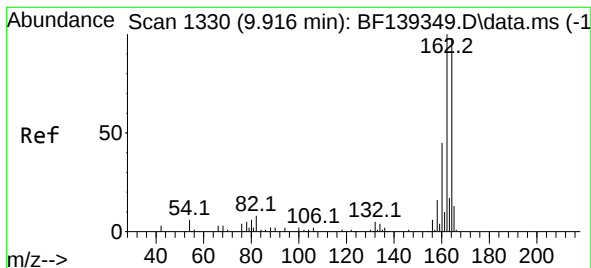
Tgt Ion:142 Resp: 12438

Ion Ratio Lower Upper

142 100

141 93.3 71.6 107.4





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.916 min Scan# 1

Delta R.T. -0.000 min

Lab File: BF139451.D

Acq: 19 Sep 2024 03:22

Instrument :

BNA_F

ClientSampleId :

HR-04-091724

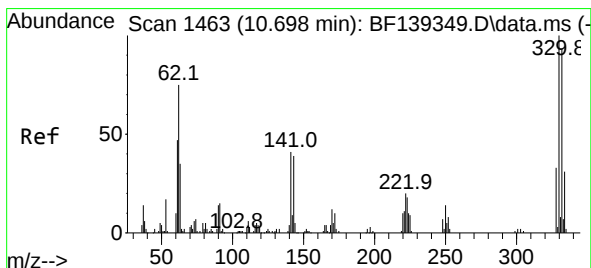
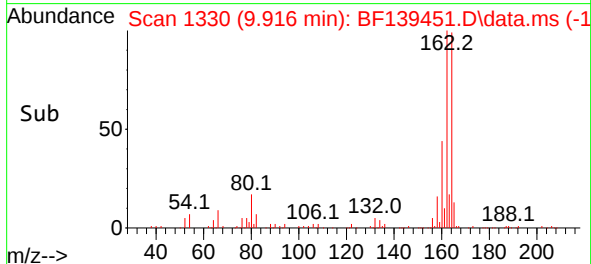
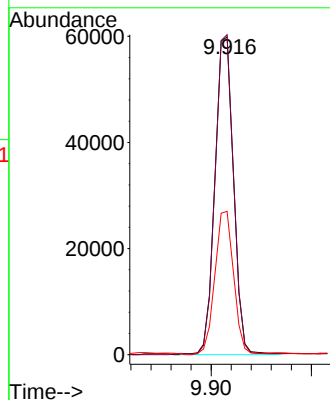
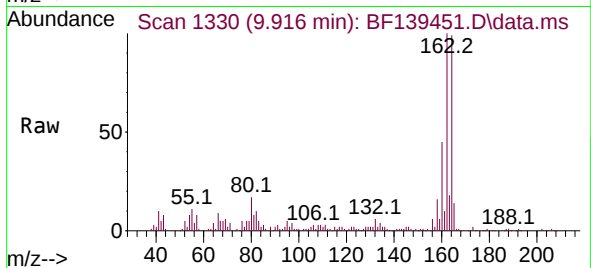
Tgt Ion:164 Resp: 77272

Ion Ratio Lower Upper

164 100

162 100.7 81.3 121.9

160 45.1 36.4 54.6



#42

2,4,6-Tribromophenol

Concen: 11.369 ng

RT: 10.698 min Scan# 1463

Delta R.T. -0.000 min

Lab File: BF139451.D

Acq: 19 Sep 2024 03:22

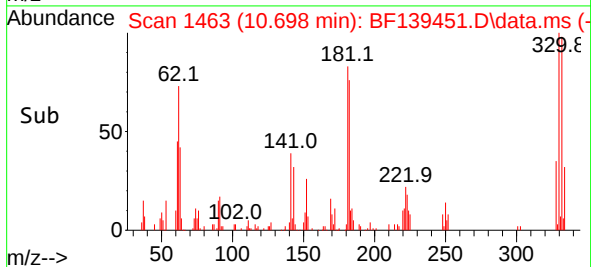
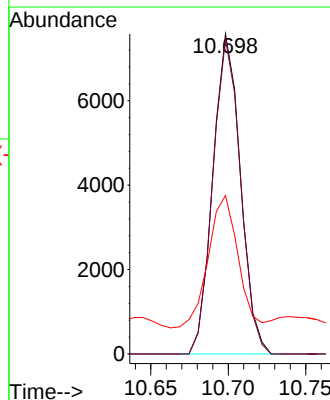
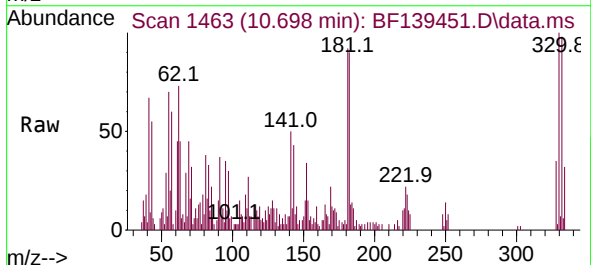
Tgt Ion:330 Resp: 9353

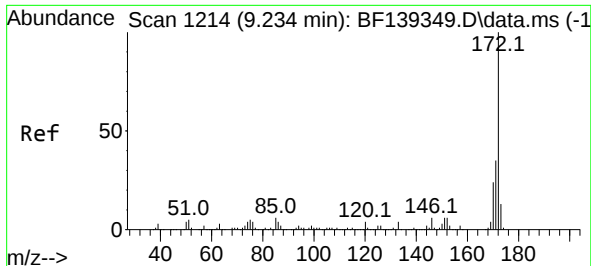
Ion Ratio Lower Upper

330 100

332 98.7 75.2 112.8

141 44.4 31.2 46.8





#45

2-Fluorobiphenyl

Concen: 10.101 ng

RT: 9.234 min Scan# 1

Delta R.T. -0.000 min

Lab File: BF139451.D

Acq: 19 Sep 2024 03:22

Instrument :

BNA_F

ClientSampleId :

HR-04-091724

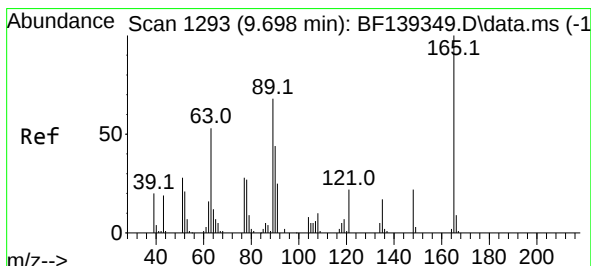
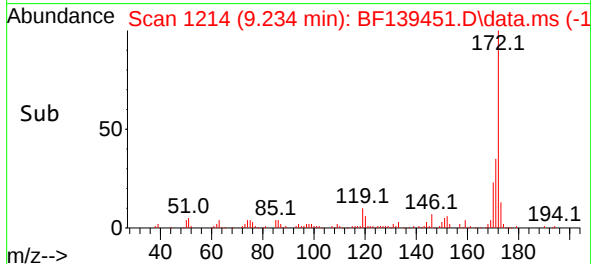
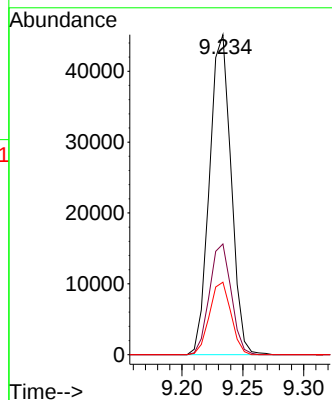
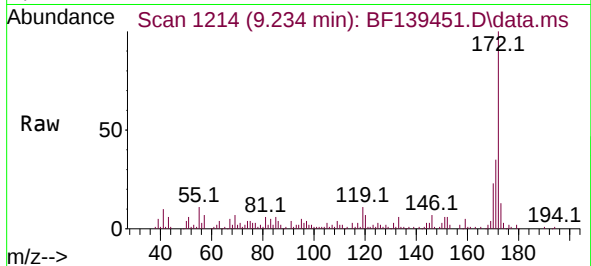
Tgt Ion:172 Resp: 55652

Ion Ratio Lower Upper

172 100

171 34.6 28.3 42.5

170 22.6 19.0 28.6



#51

2,6-Dinitrotoluene

Concen: 11.293 ng

RT: 9.910 min Scan# 1329

Delta R.T. 0.212 min

Lab File: BF139451.D

Acq: 19 Sep 2024 03:22

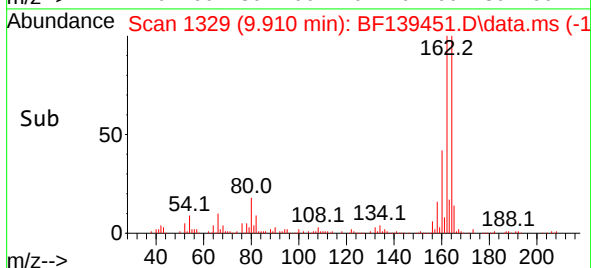
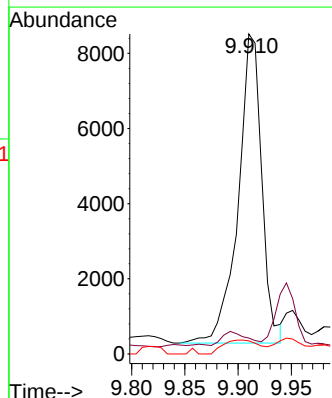
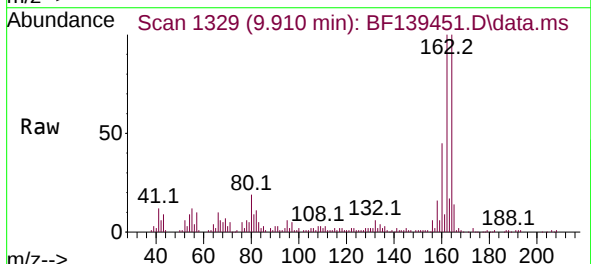
Tgt Ion:165 Resp: 12688

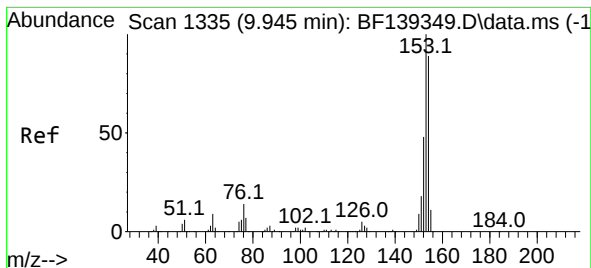
Ion Ratio Lower Upper

165 100

63 4.9 60.9 91.3#

89 4.1 54.7 82.1#





#52

Acenaphthene

Concen: 4.585 ng

RT: 9.945 min Scan# 1335

Delta R.T. -0.000 min

Lab File: BF139451.D

Acq: 19 Sep 2024 03:22

Instrument :

BNA_F

ClientSampleId :

HR-04-091724

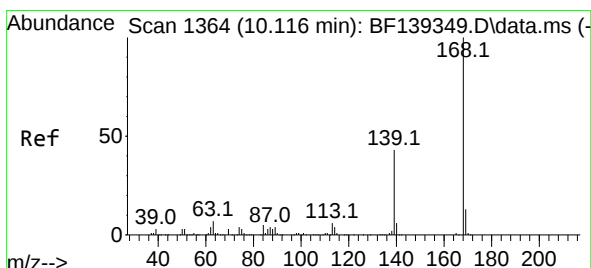
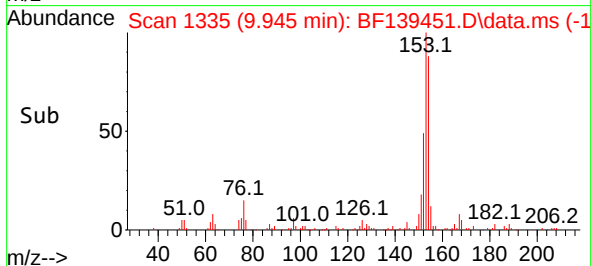
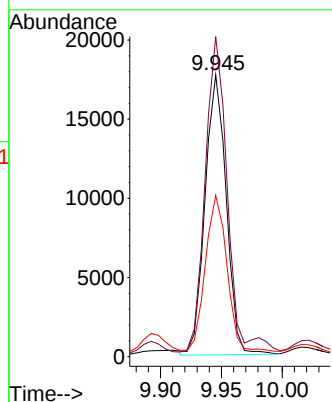
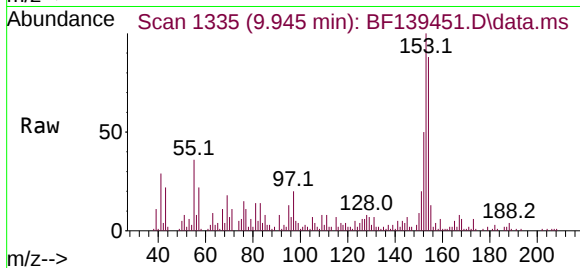
Tgt Ion:154 Resp: 21413

Ion Ratio Lower Upper

154 100

153 113.6 89.5 134.3

152 57.2 42.6 64.0



#55

Dibenzofuran

Concen: 3.915 ng

RT: 10.116 min Scan# 1364

Delta R.T. -0.000 min

Lab File: BF139451.D

Acq: 19 Sep 2024 03:22

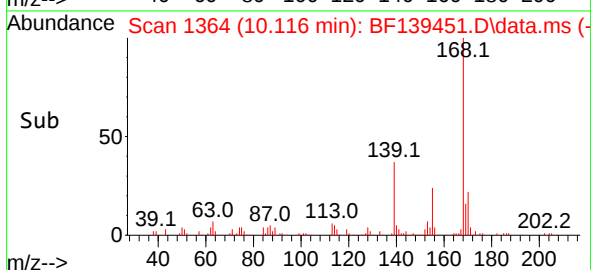
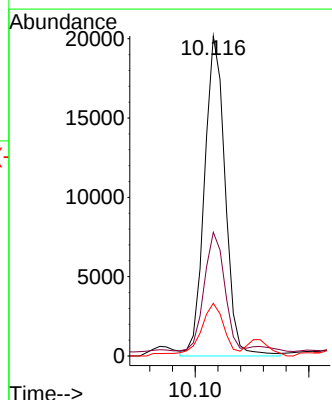
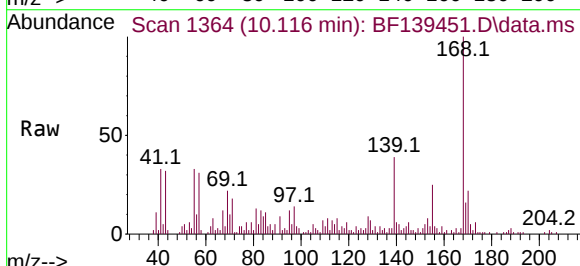
Tgt Ion:168 Resp: 25481

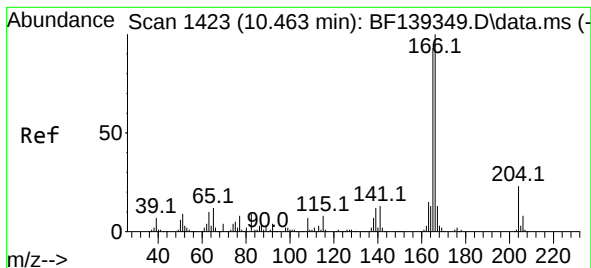
Ion Ratio Lower Upper

168 100

139 38.6 34.1 51.1

169 16.4 10.5 15.7#





#58

Fluorene

Concen: 7.000 ng

RT: 10.457 min Scan# 1423

Delta R.T. -0.006 min

Lab File: BF139451.D

Acq: 19 Sep 2024 03:22

Instrument :

BNA_F

ClientSampleId :

HR-04-091724

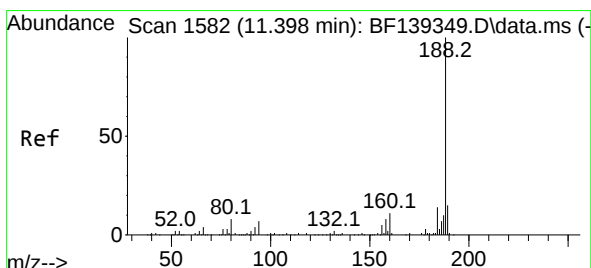
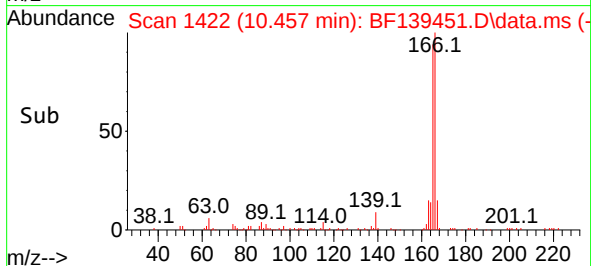
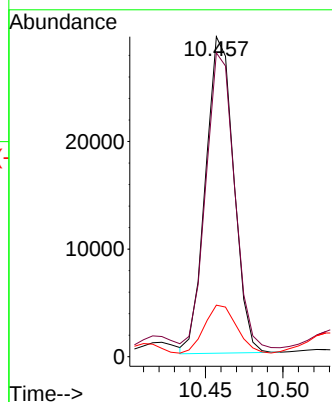
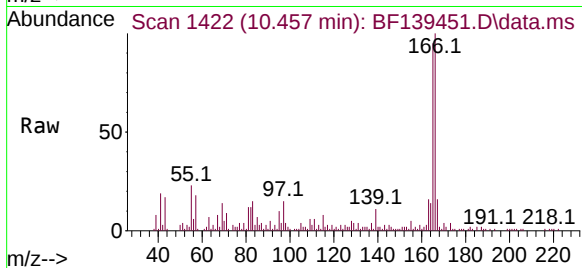
Tgt Ion:166 Resp: 37174

Ion Ratio Lower Upper

166 100

165 95.0 74.5 111.7

167 16.1 10.6 16.0#



#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.398 min Scan# 1582

Delta R.T. -0.000 min

Lab File: BF139451.D

Acq: 19 Sep 2024 03:22

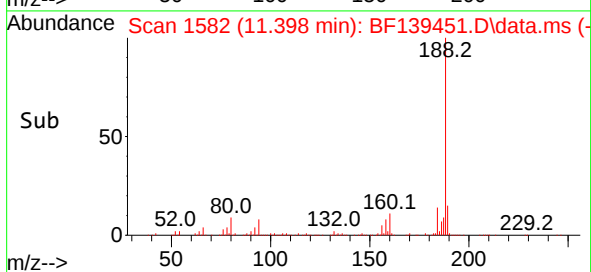
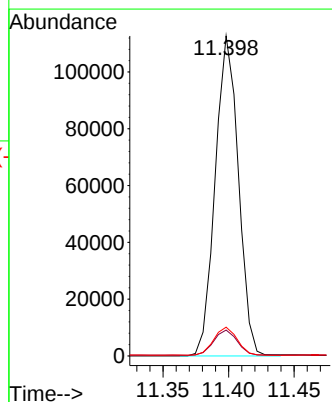
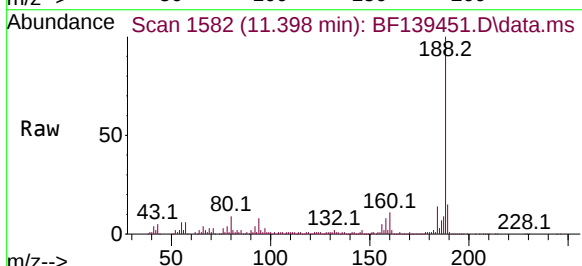
Tgt Ion:188 Resp: 138526

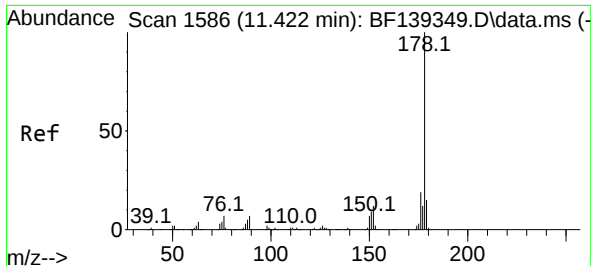
Ion Ratio Lower Upper

188 100

94 8.1 5.5 8.3

80 9.0 6.6 9.8

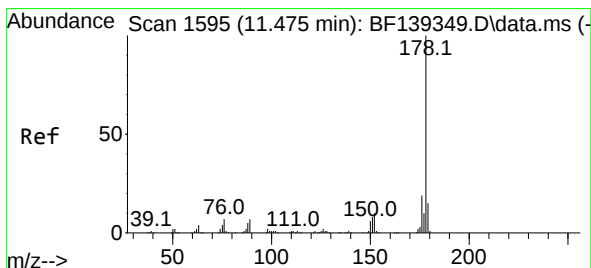
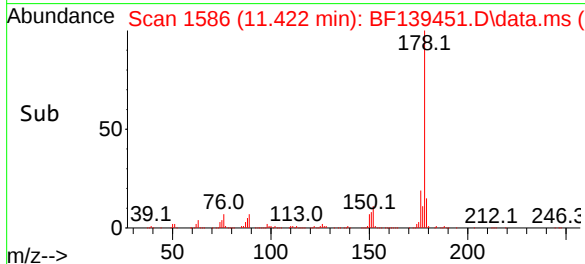
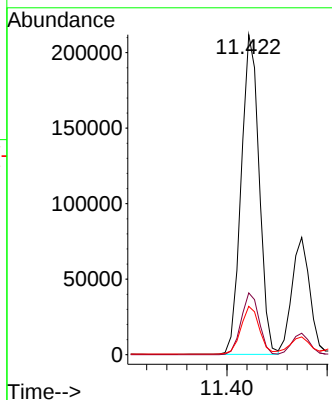
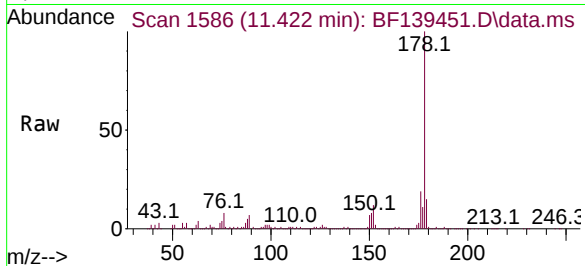




#71
Phenanthrene
Concen: 39.453 ng
RT: 11.422 min Scan# 1586
Delta R.T. -0.000 min
Lab File: BF139451.D
Acq: 19 Sep 2024 03:22

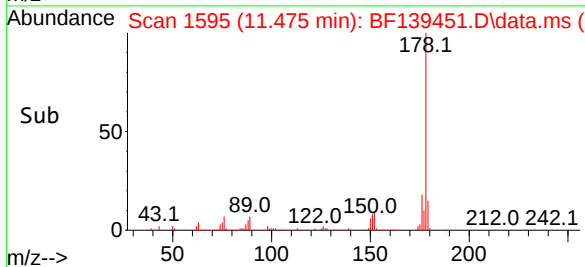
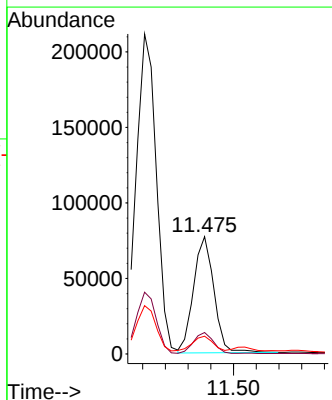
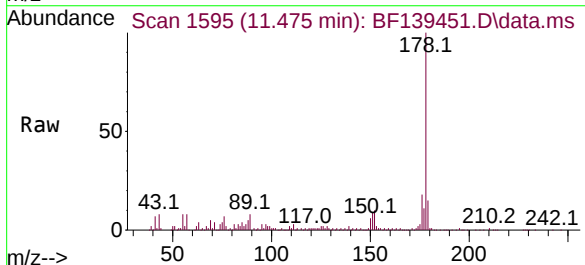
Instrument :
BNA_F
ClientSampleId :
HR-04-091724

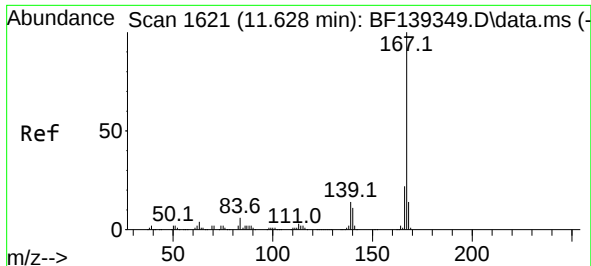
Tgt Ion:178 Resp: 263676
Ion Ratio Lower Upper
178 100
176 19.3 15.2 22.8
179 15.1 12.2 18.4



#72
Anthracene
Concen: 14.705 ng
RT: 11.475 min Scan# 1595
Delta R.T. -0.000 min
Lab File: BF139451.D
Acq: 19 Sep 2024 03:22

Tgt Ion:178 Resp: 96088
Ion Ratio Lower Upper
178 100
176 18.2 15.0 22.6
179 15.2 12.0 18.0

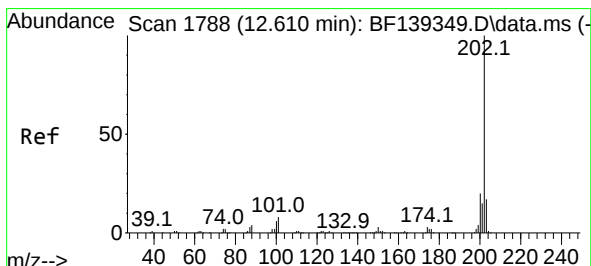
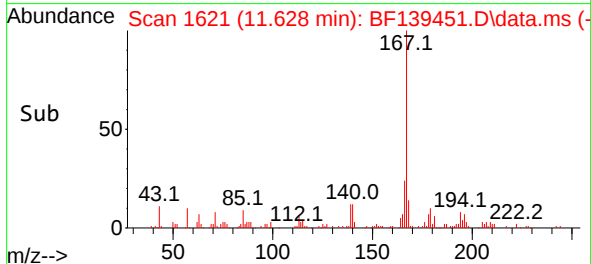
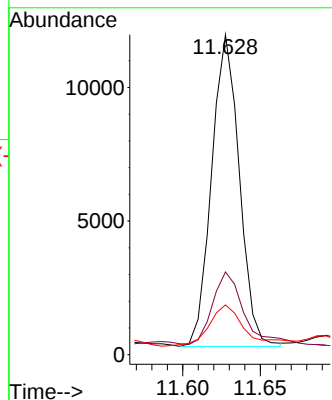
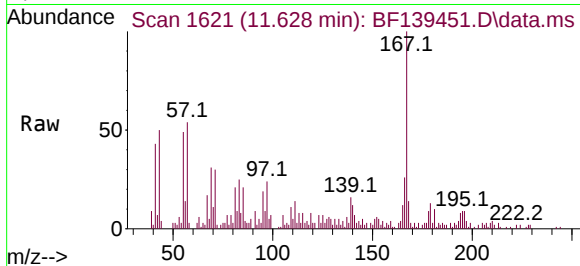




#73
 Carbazole
 Concen: 2.317 ng
 RT: 11.628 min Scan# 1621
 Delta R.T. -0.000 min
 Lab File: BF139451.D
 Acq: 19 Sep 2024 03:22

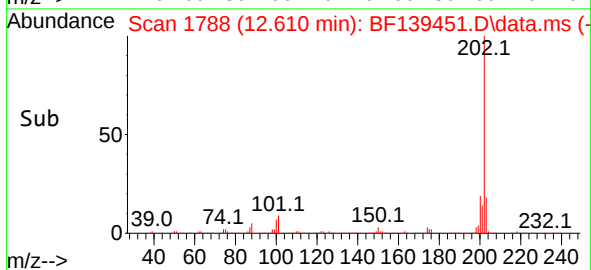
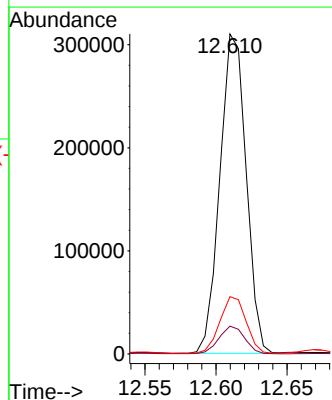
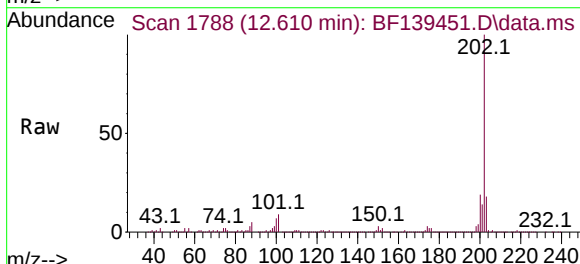
Instrument :
 BNA_F
 ClientSampleId :
 HR-04-091724

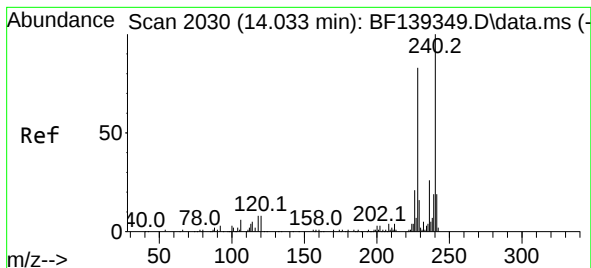
Tgt Ion:167	Resp:	14490
Ion Ratio	Lower	Upper
167	100	
166	25.8	17.5 26.3
139	15.6	10.9 16.3



#75
 Fluoranthene
 Concen: 55.835 ng
 RT: 12.610 min Scan# 1788
 Delta R.T. -0.000 min
 Lab File: BF139451.D
 Acq: 19 Sep 2024 03:22

Tgt Ion:202	Resp:	398509
Ion Ratio	Lower	Upper
202	100	
101	8.7	0.0 27.7
203	17.9	0.0 37.4





#76

Chrysene-d12

Concen: 20.000 ng

RT: 14.033 min Scan# 2030

Delta R.T. -0.000 min

Lab File: BF139451.D

Acq: 19 Sep 2024 03:22

Instrument :

BNA_F

ClientSampleId :

HR-04-091724

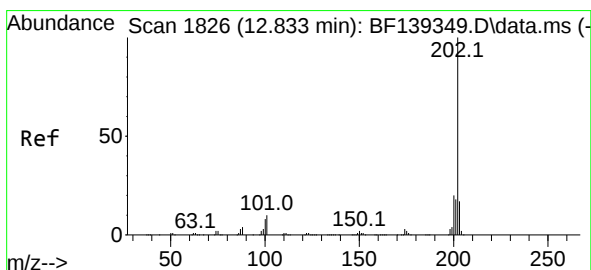
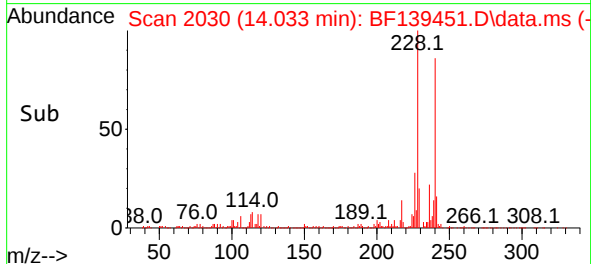
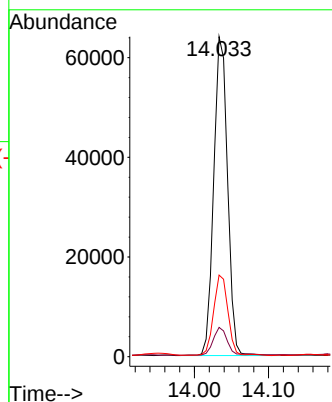
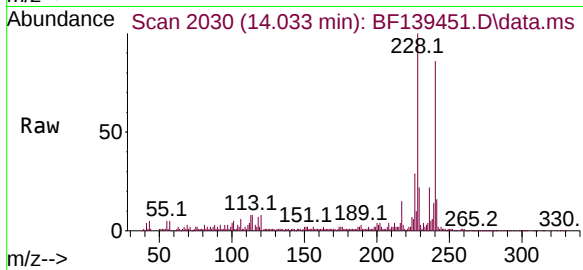
Tgt Ion:240 Resp: 82690

Ion Ratio Lower Upper

240 100

120 9.1 6.2 9.2

236 25.5 20.9 31.3



#78

Pyrene

Concen: 44.966 ng

RT: 12.839 min Scan# 1827

Delta R.T. 0.006 min

Lab File: BF139451.D

Acq: 19 Sep 2024 03:22

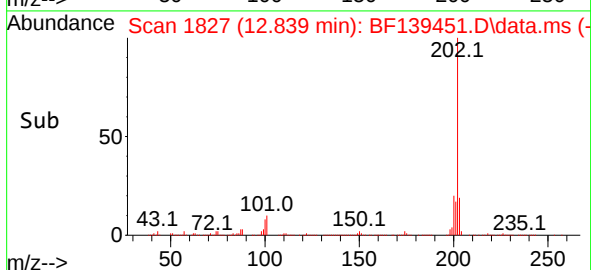
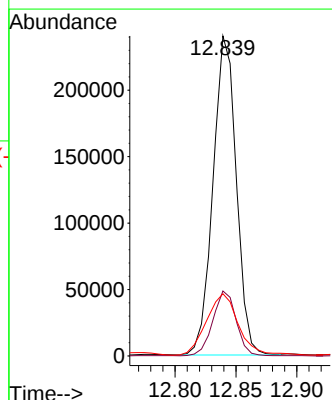
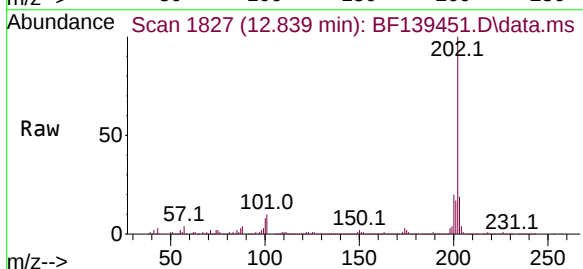
Tgt Ion:202 Resp: 319263

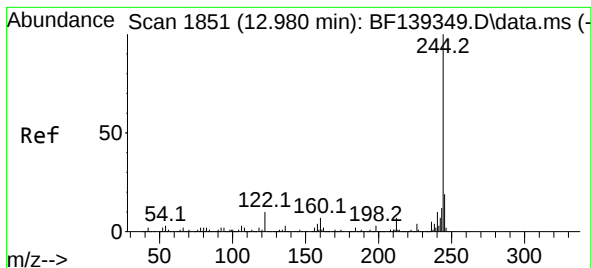
Ion Ratio Lower Upper

202 100

200 20.3 16.2 24.2

203 19.5 13.9 20.9





#79

Terphenyl-d14

Concen: 11.028 ng

RT: 12.980 min Scan# 1851

Delta R.T. -0.000 min

Lab File: BF139451.D

Acq: 19 Sep 2024 03:22

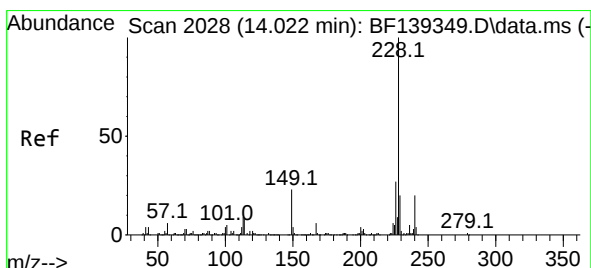
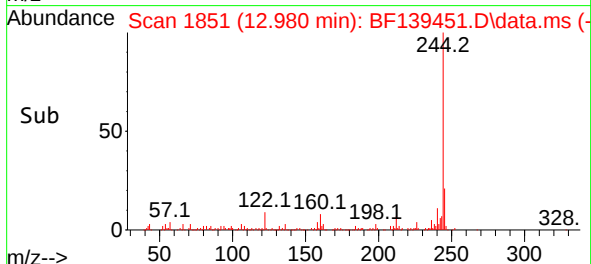
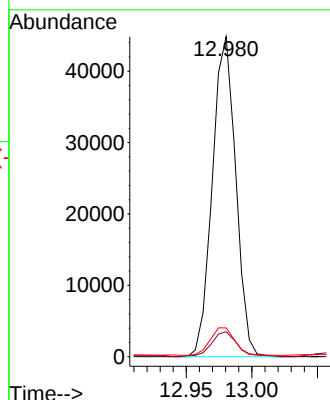
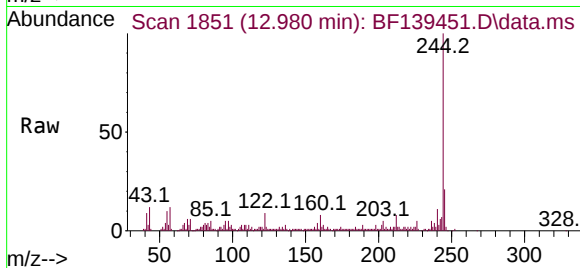
Instrument :

BNA_F

ClientSampleId :

HR-04-091724

Tgt Ion:	244	Resp:	55559
Ion Ratio	Lower	Upper	
244	100		
212	7.8	6.0	9.0
122	9.0	7.6	11.4



#81

Benzo(a)anthracene

Concen: 29.205 ng

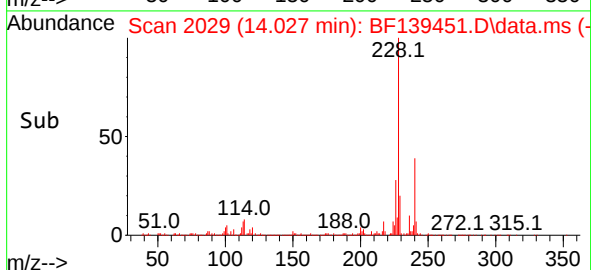
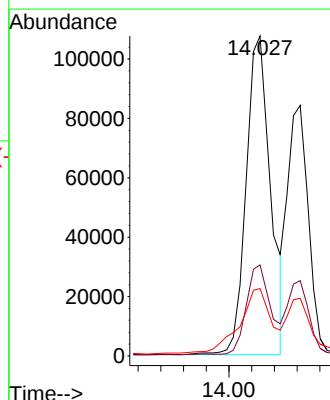
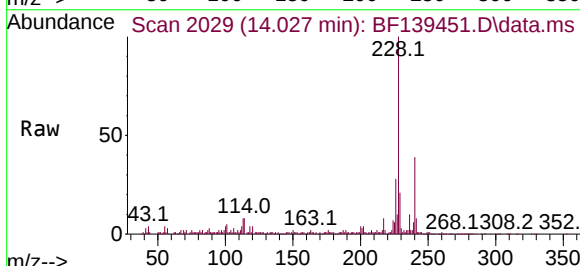
RT: 14.027 min Scan# 2029

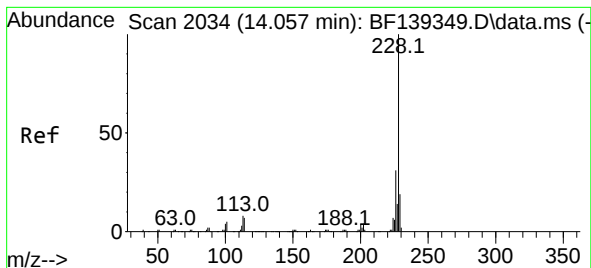
Delta R.T. 0.006 min

Lab File: BF139451.D

Acq: 19 Sep 2024 03:22

Tgt Ion:	228	Resp:	159967
Ion Ratio	Lower	Upper	
228	100		
226	28.4	21.6	32.4
229	21.1	15.7	23.5





#83

Chrysene

Concen: 21.178 ng

RT: 14.063 min Scan# 2034

Delta R.T. 0.006 min

Lab File: BF139451.D

Acq: 19 Sep 2024 03:22

Instrument :

BNA_F

ClientSampleId :

HR-04-091724

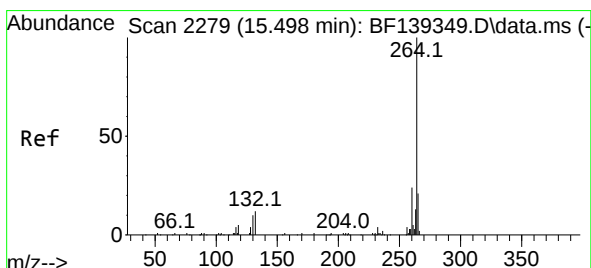
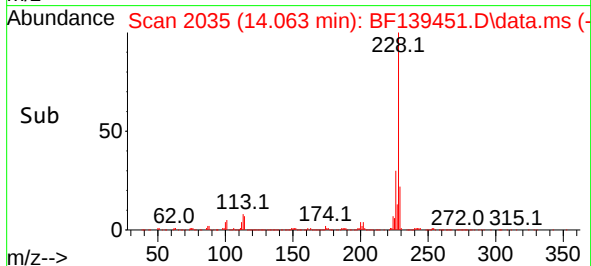
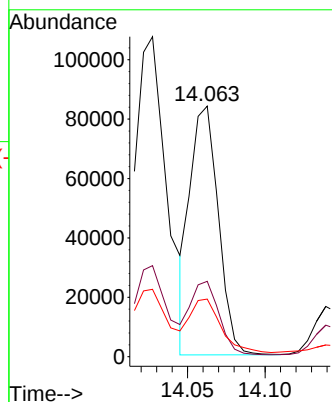
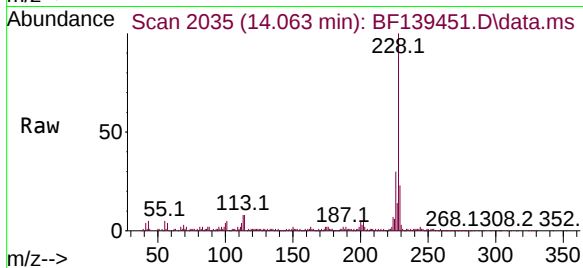
Tgt Ion:228 Resp: 106720

Ion Ratio Lower Upper

228 100

226 30.1 24.1 36.1

229 23.0 15.4 23.0



#86

Perylene-d12

Concen: 20.000 ng

RT: 15.510 min Scan# 2281

Delta R.T. 0.012 min

Lab File: BF139451.D

Acq: 19 Sep 2024 03:22

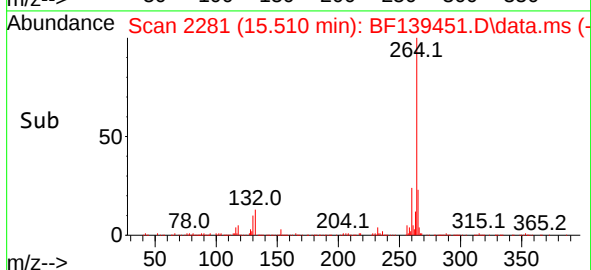
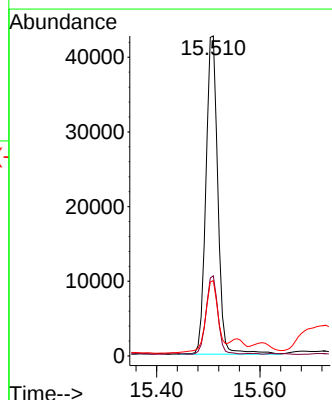
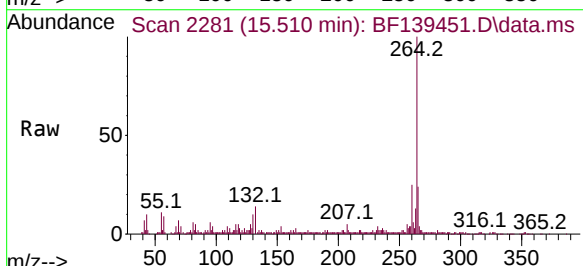
Tgt Ion:264 Resp: 68239

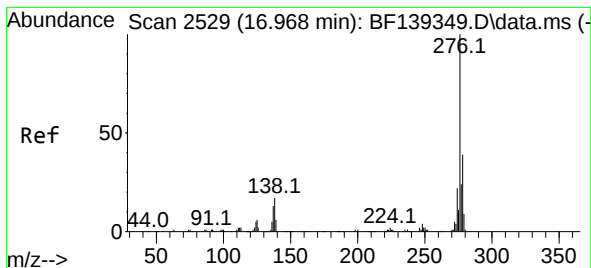
Ion Ratio Lower Upper

264 100

260 25.1 19.5 29.3

265 23.5 16.6 25.0





#87

Indeno(1,2,3-cd)pyrene

Concen: 10.653 ng

RT: 16.974 min Scan# 21

Delta R.T. 0.006 min

Lab File: BF139451.D

Acq: 19 Sep 2024 03:22

Instrument :

BNA_F

ClientSampleId :

HR-04-091724

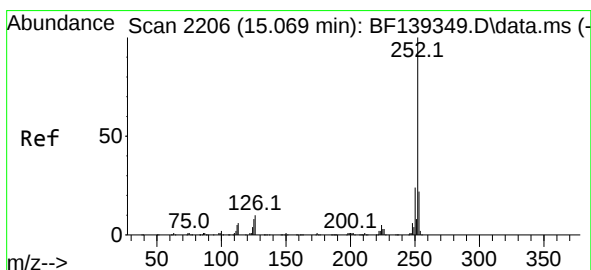
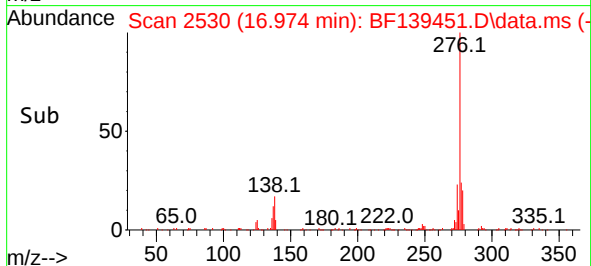
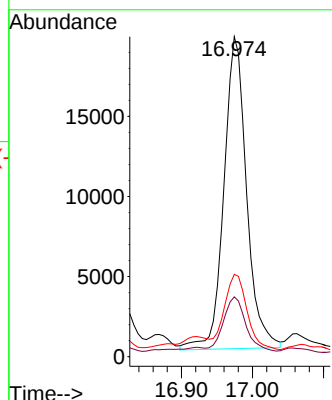
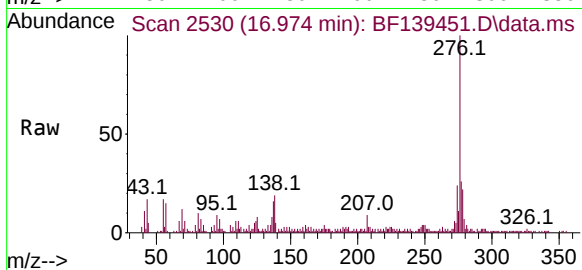
Tgt Ion:276 Resp: 43228

Ion Ratio Lower Upper

276 100

138 17.5 15.4 23.2

277 24.3 20.4 30.6



#88

Benzo(b)fluoranthene

Concen: 40.076 ng

RT: 15.080 min Scan# 2208

Delta R.T. 0.012 min

Lab File: BF139451.D

Acq: 19 Sep 2024 03:22

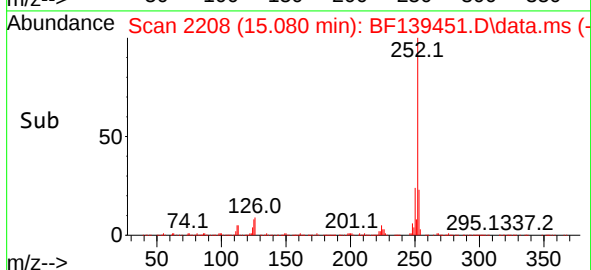
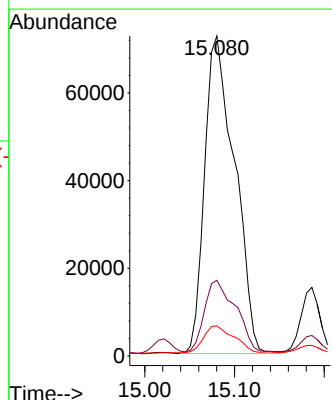
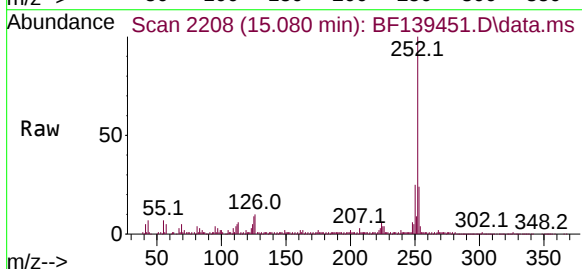
Tgt Ion:252 Resp: 168662

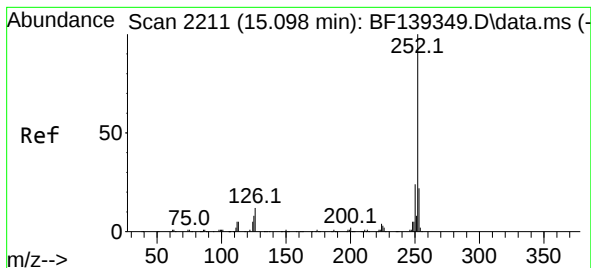
Ion Ratio Lower Upper

252 100

253 23.7 17.6 26.4

125 9.4 6.2 9.2#





#89

Benzo(k)fluoranthene

Concen: 43.465 ng

RT: 15.080 min Scan# 21

Delta R.T. -0.018 min

Lab File: BF139451.D

Acq: 19 Sep 2024 03:22

Instrument :

BNA_F

ClientSampleId :

HR-04-091724

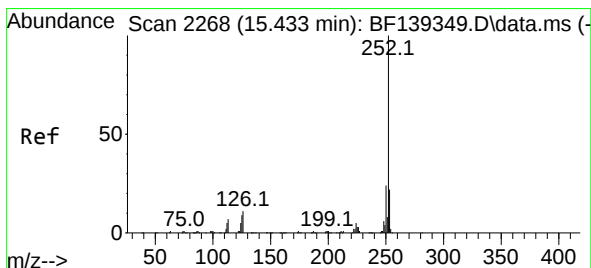
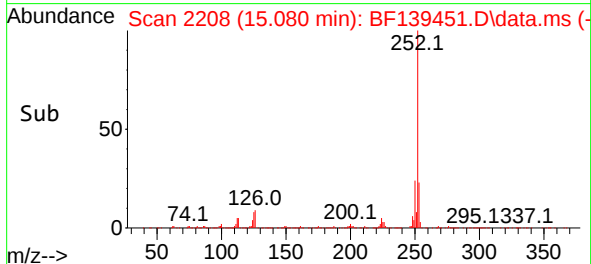
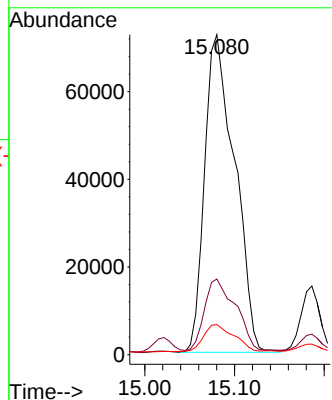
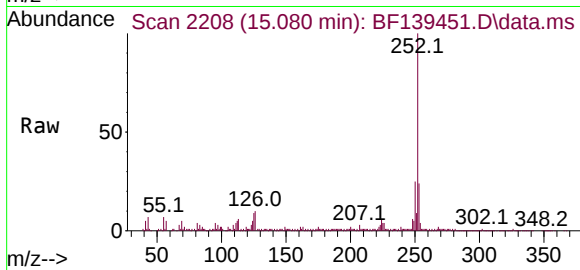
Tgt Ion:252 Resp: 168662

Ion Ratio Lower Upper

252 100

253 23.7 17.3 25.9

125 9.4 5.9 8.9#



#90

Benzo(a)pyrene

Concen: 25.516 ng

RT: 15.445 min Scan# 2270

Delta R.T. 0.012 min

Lab File: BF139451.D

Acq: 19 Sep 2024 03:22

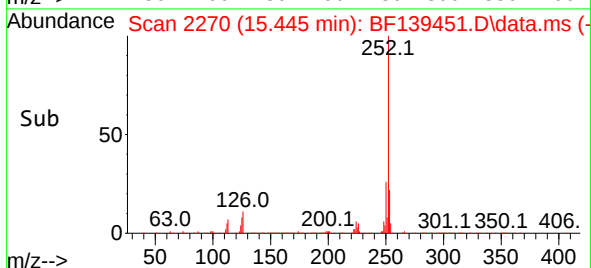
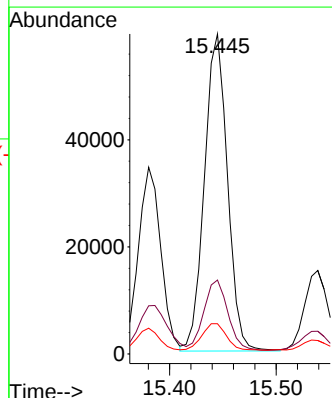
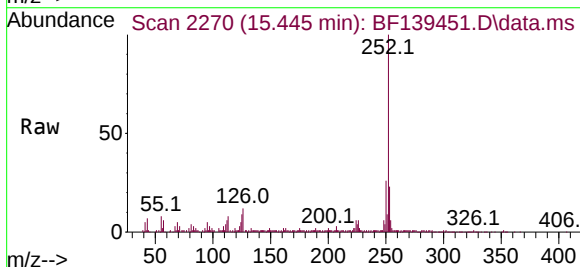
Tgt Ion:252 Resp: 89061

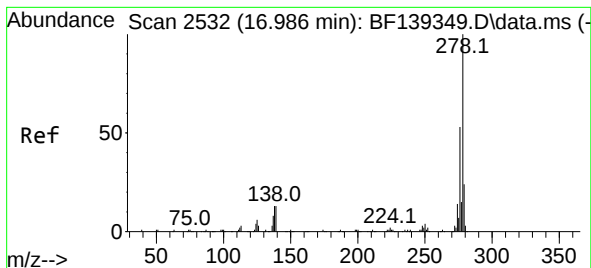
Ion Ratio Lower Upper

252 100

253 23.1 17.3 25.9

125 9.5 6.8 10.2





#91

Dibenzo(a,h)anthracene

Concen: 3.358 ng

RT: 16.986 min Scan# 2532

Delta R.T. -0.000 min

Lab File: BF139451.D

Acq: 19 Sep 2024 03:22

Instrument :

BNA_F

ClientSampleId :

HR-04-091724

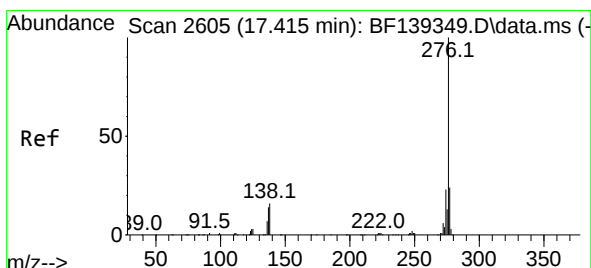
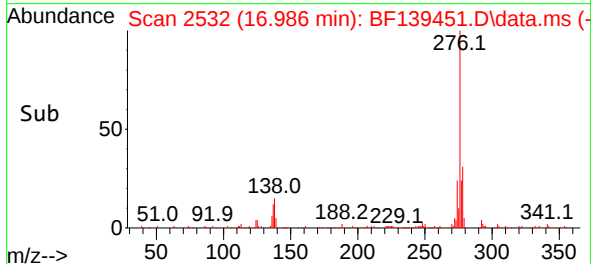
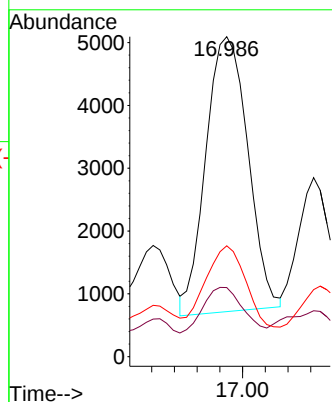
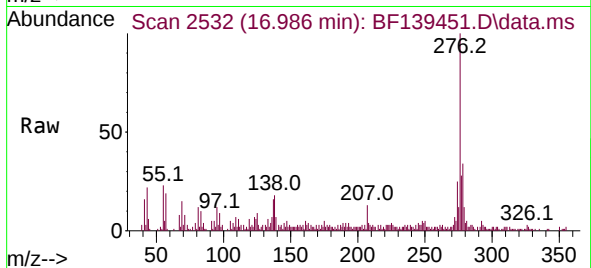
Tgt Ion:278 Resp: 11260

Ion Ratio Lower Upper

278 100

139 21.6 10.2 15.2#

279 34.6 18.9 28.3#



#92

Benzo(g,h,i)perylene

Concen: 10.839 ng

RT: 17.421 min Scan# 2606

Delta R.T. 0.006 min

Lab File: BF139451.D

Acq: 19 Sep 2024 03:22

Tgt Ion:276 Resp: 35983

Ion Ratio Lower Upper

276 100

277 26.3 18.9 28.3

138 17.4 13.0 19.6

