

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF101424\
 Data File : BF139801.D
 Acq On : 14 Oct 2024 21:19
 Operator : RC/JU
 Sample : P4364-14 5X
 Misc :
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SB-06-0.167-0.667

Quant Time: Oct 15 01:14:02 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF100124.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Oct 02 04:58:47 2024
 Response via : Initial Calibration

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

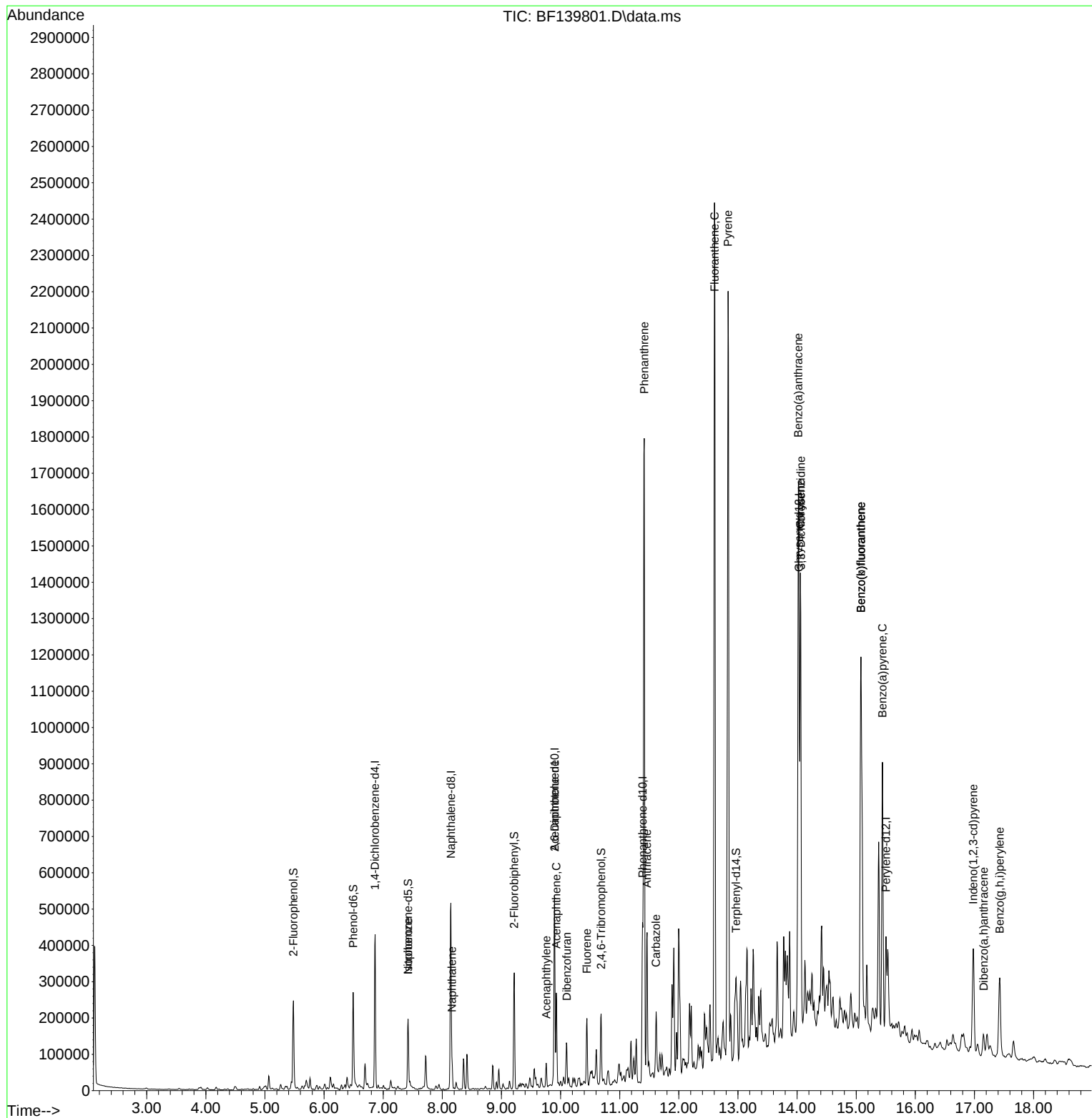
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.863	152	85492	20.000	ng	0.00
21) Naphthalene-d8	8.145	136	313236	20.000	ng	0.00
39) Acenaphthene-d10	9.898	164	148707	20.000	ng	-0.01
64) Phenanthrene-d10	11.386	188	225636	20.000	ng	0.00
76) Chrysene-d12	14.033	240	160985	20.000	ng	0.00
86) Perylene-d12	15.504	264	140827	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.481	112	92648	18.783	ng	0.00
7) Phenol-d6	6.492	99	128748	19.410	ng	-0.01
23) Nitrobenzene-d5	7.422	82	81649	13.197	ng	-0.01
42) 2,4,6-Tribromophenol	10.686	330	20015	13.943	ng	-0.01
45) 2-Fluorobiphenyl	9.216	172	133200	13.751	ng	-0.01
79) Terphenyl-d14	12.968	244	95858	9.770	ng	-0.01
Target Compounds						Qvalue
25) Isophorone	7.422	82	79615	7.245	ng	# 66
31) Naphthalene	8.163	128	39332	2.456	ng	99
49) Acenaphthylene	9.757	152	32683	2.592	ng	98
51) 2,6-Dinitrotoluene	9.898	165	20826	9.471	ng	# 18
52) Acenaphthene	9.927	154	74688	8.628	ng	97
55) Dibenzofuran	10.104	168	57768	4.766	ng	96
58) Fluorene	10.445	166	70689	7.323	ng	99
71) Phenanthrene	11.416	178	964498	90.658	ng	100
72) Anthracene	11.463	178	228793	21.738	ng	99
73) Carbazole	11.616	167	92511	9.151	ng	99
75) Fluoranthene	12.604	202	1419380	122.046	ng	99
78) Pyrene	12.833	202	1306877	90.766	ng	97
81) Benzo(a)anthracene	14.021	228	782908	73.970	ng	97
82) 3,3'-Dichlorobenzidine	14.062	252	7728	2.386	ng	# 1
83) Chrysene	14.057	228	652264	67.406	ng	97
87) Indeno(1,2,3-cd)pyrene	16.980	276	211438	25.509	ng	94
88) Benzo(b)fluoranthene	15.080	252	932066	102.361	ng	97
89) Benzo(k)fluoranthene	15.080	252	932066	120.671	ng	98
90) Benzo(a)pyrene	15.445	252	448123	62.415	ng	98
91) Dibenzo(a,h)anthracene	17.156	278	42032	6.114	ng	95
92) Benzo(g,h,i)perylene	17.427	276	194542	28.216	ng	99

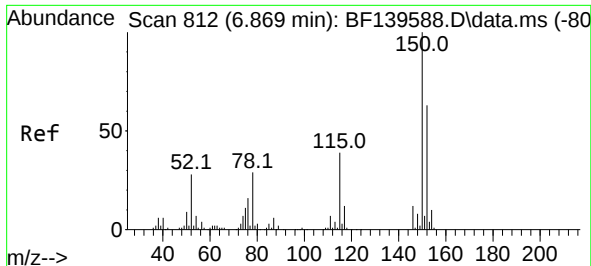
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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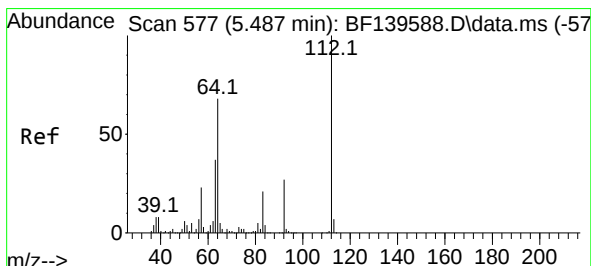
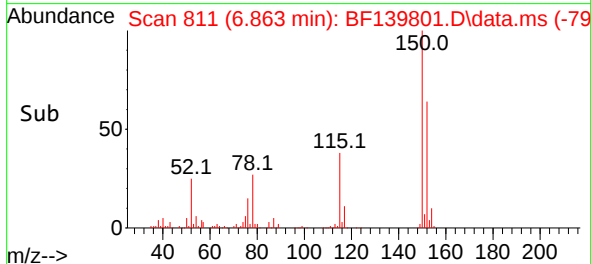
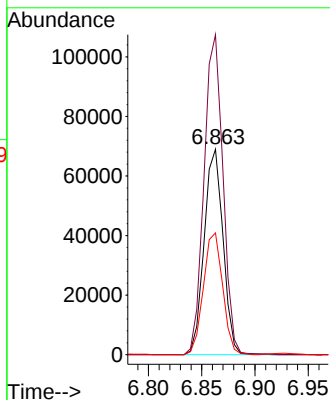
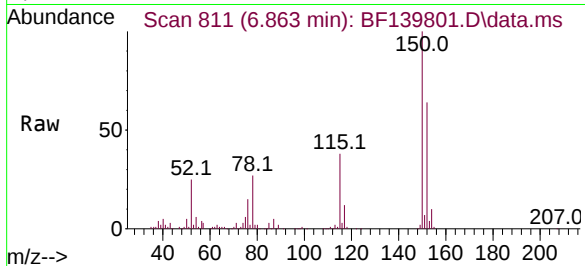




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.863 min Scan# 812
Delta R.T. -0.006 min
Lab File: BF139801.D
Acq: 14 Oct 2024 21:19

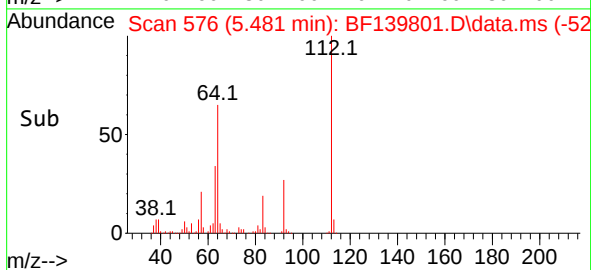
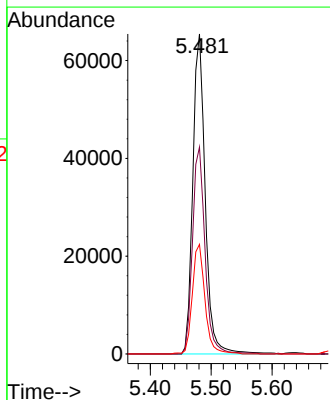
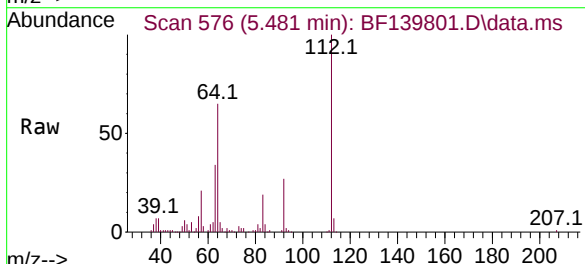
Instrument :
BNA_F
ClientSampleId :
SB-06-0.167-0.667

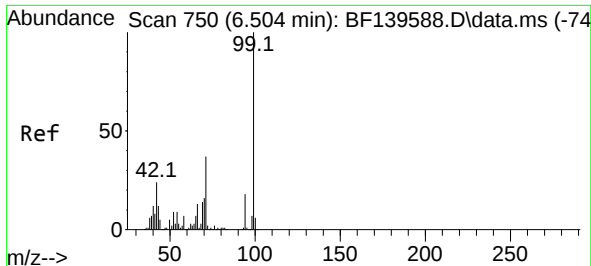
Tgt Ion:152 Resp: 85492
Ion Ratio Lower Upper
152 100
150 155.8 127.2 190.8
115 59.3 49.0 73.4



#5
2-Fluorophenol
Concen: 18.783 ng
RT: 5.481 min Scan# 576
Delta R.T. -0.006 min
Lab File: BF139801.D
Acq: 14 Oct 2024 21:19

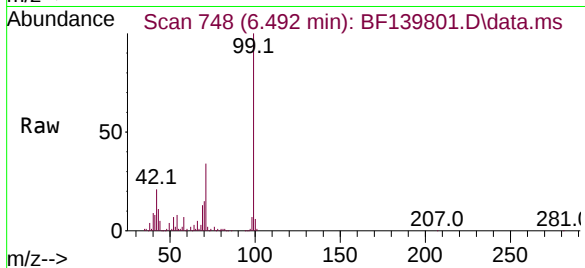
Tgt Ion:112 Resp: 92648
Ion Ratio Lower Upper
112 100
64 64.6 54.2 81.4
63 34.2 29.4 44.2



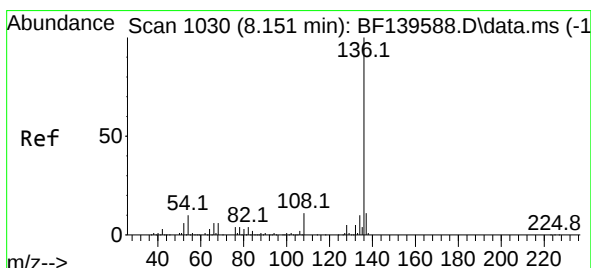
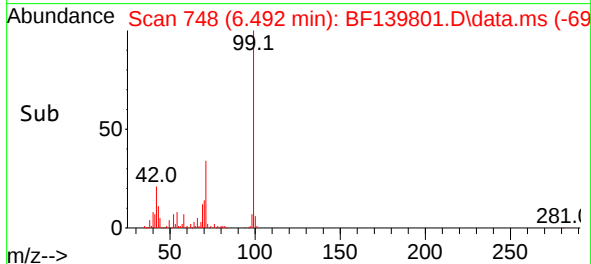
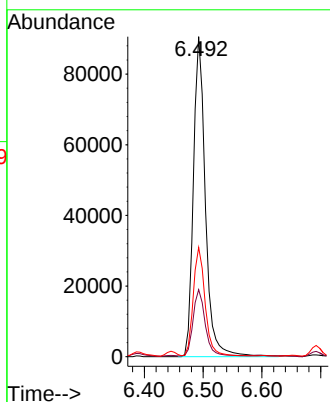


#7
Phenol-d6
Concen: 19.410 ng
RT: 6.492 min Scan# 74
Delta R.T. -0.012 min
Lab File: BF139801.D
Acq: 14 Oct 2024 21:19

Instrument :
BNA_F
ClientSampleId :
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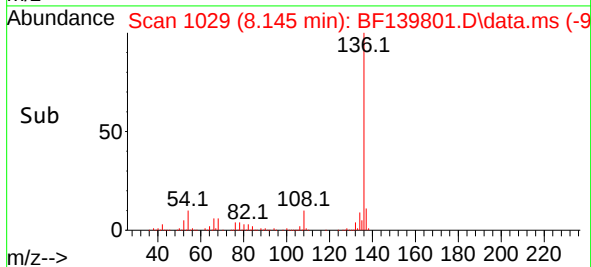
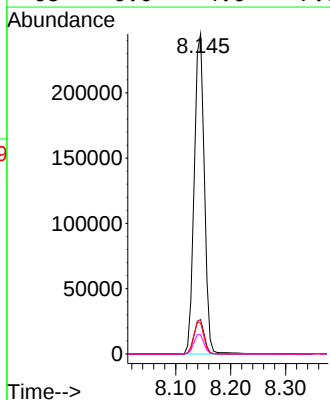
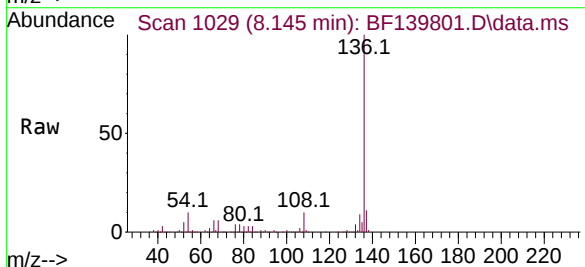


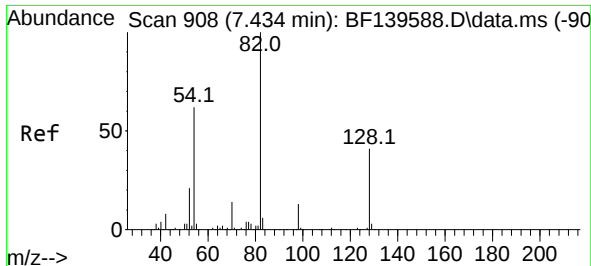
Tgt Ion: 99 Resp: 128748
Ion Ratio Lower Upper
99 100
42 20.9 19.1 28.7
71 34.2 29.7 44.5



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.145 min Scan# 1029
Delta R.T. -0.006 min
Lab File: BF139801.D
Acq: 14 Oct 2024 21:19

Tgt Ion:136 Resp: 313236
Ion Ratio Lower Upper
136 100
137 10.7 8.6 13.0
54 9.7 8.3 12.5
68 6.0 4.6 7.0





#23

Nitrobenzene-d5

Concen: 13.197 ng

RT: 7.422 min Scan# 906

Delta R.T. -0.012 min

Lab File: BF139801.D

Acq: 14 Oct 2024 21:19

Instrument :

BNA_F

ClientSampleId :

SB-06-0.167-0.667

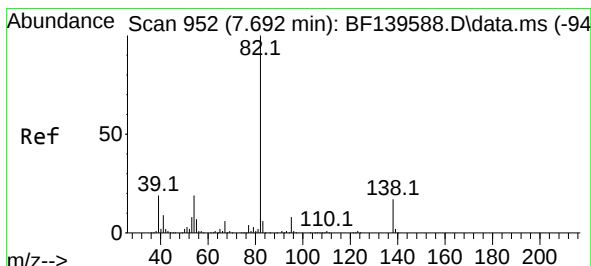
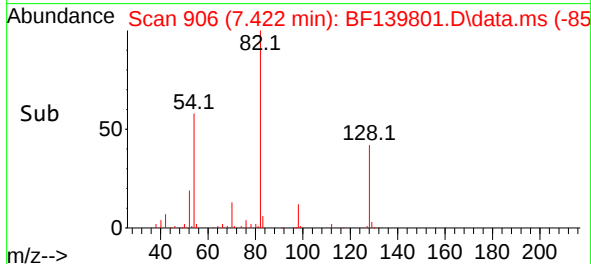
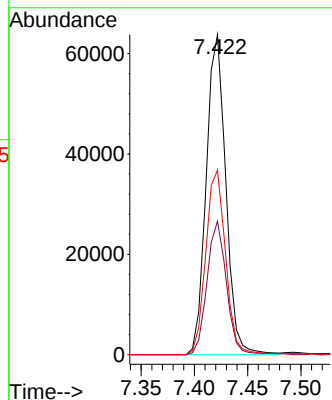
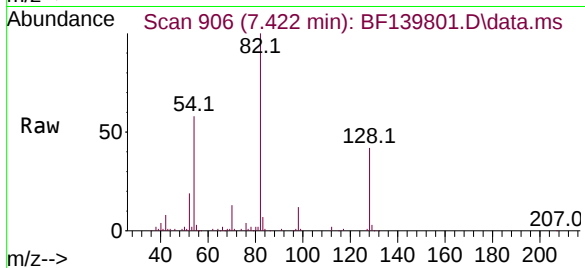
Tgt Ion: 82 Resp: 81649

Ion Ratio Lower Upper

82 100

128 41.7 32.4 48.6

54 57.7 49.1 73.7



#25

Isophorone

Concen: 7.245 ng

RT: 7.422 min Scan# 906

Delta R.T. -0.271 min

Lab File: BF139801.D

Acq: 14 Oct 2024 21:19

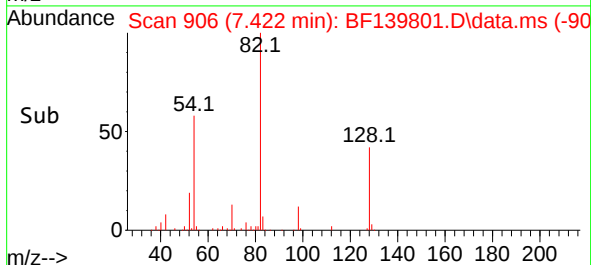
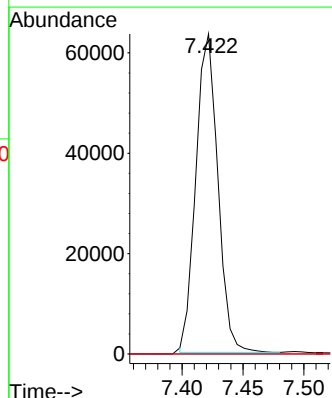
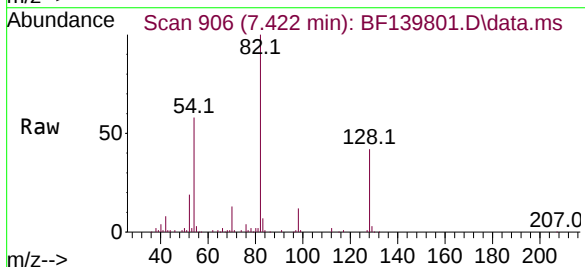
Tgt Ion: 82 Resp: 79615

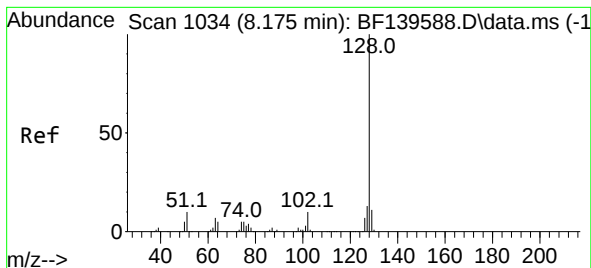
Ion Ratio Lower Upper

82 100

95 0.0 6.1 9.1#

138 0.0 13.4 20.2#





#31

Naphthalene

Concen: 2.456 ng

RT: 8.163 min Scan# 1

Delta R.T. -0.012 min

Lab File: BF139801.D

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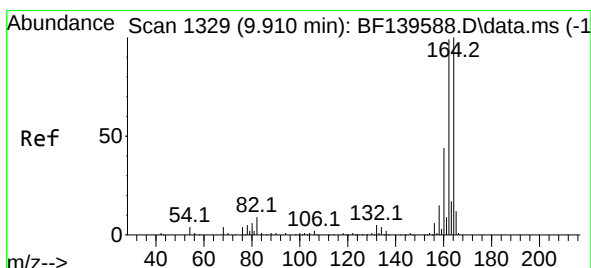
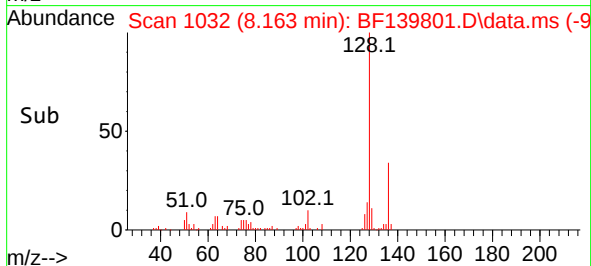
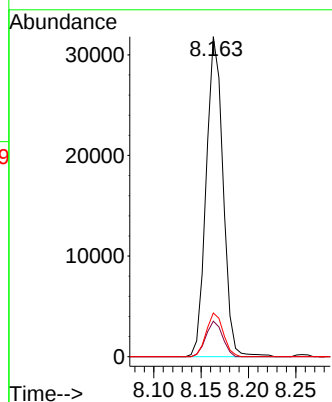
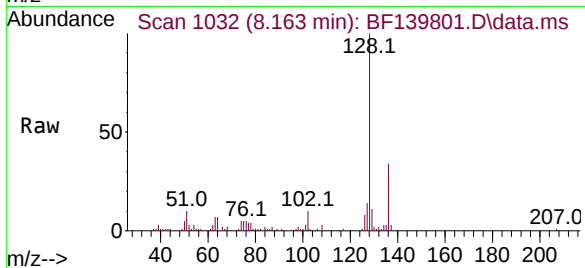
Tgt Ion:128 Resp: 39332

Ion Ratio Lower Upper

128 100

129 11.1 8.8 13.2

127 13.7 10.5 15.7



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.898 min Scan# 1327

Delta R.T. -0.012 min

Lab File: BF139801.D

Acq: 14 Oct 2024 21:19

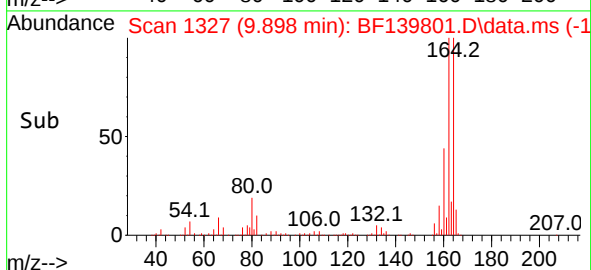
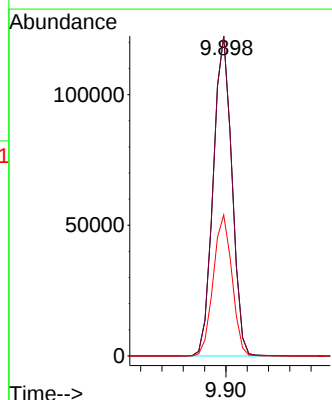
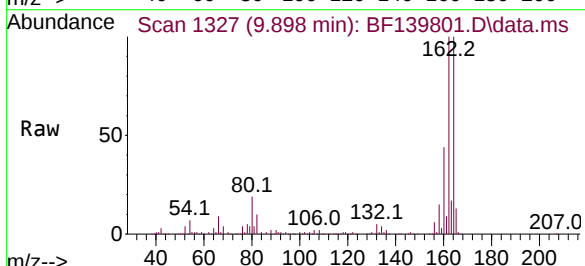
Tgt Ion:164 Resp: 148707

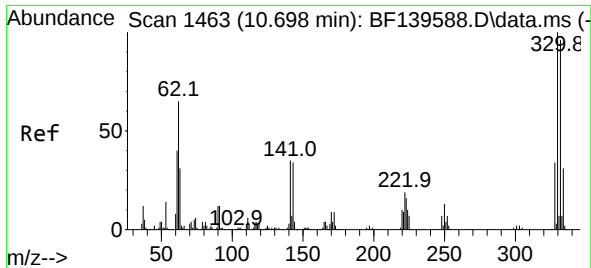
Ion Ratio Lower Upper

164 100

162 100.1 79.4 119.0

160 44.1 35.1 52.7





#42

2,4,6-Tribromophenol

Concen: 13.943 ng

RT: 10.686 min Scan# 1461

Delta R.T. -0.012 min

Lab File: BF139801.D

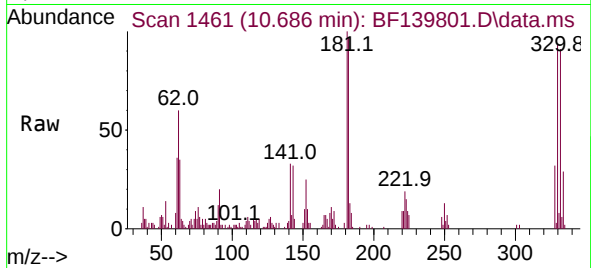
Acq: 14 Oct 2024 21:19

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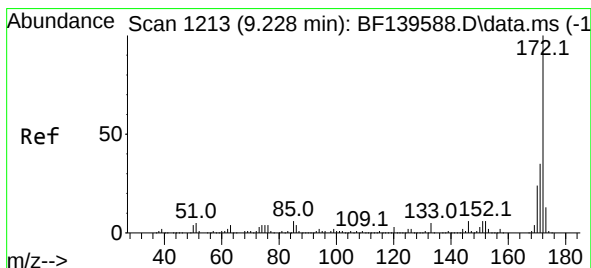
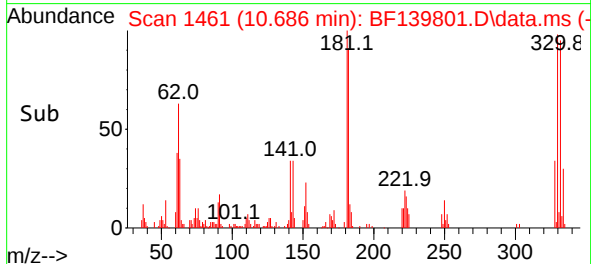
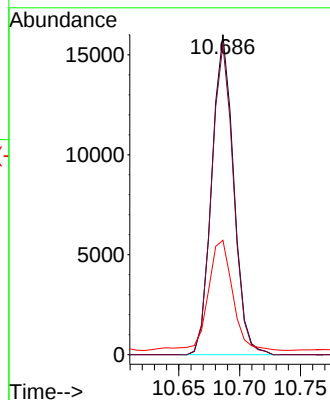
Tgt Ion:330 Resp: 20015

Ion Ratio Lower Upper

330 100

332 97.5 76.5 114.7

141 40.1 29.3 43.9



#45

2-Fluorobiphenyl

Concen: 13.751 ng

RT: 9.216 min Scan# 1211

Delta R.T. -0.012 min

Lab File: BF139801.D

Acq: 14 Oct 2024 21:19

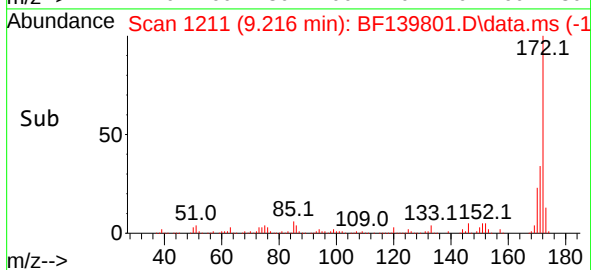
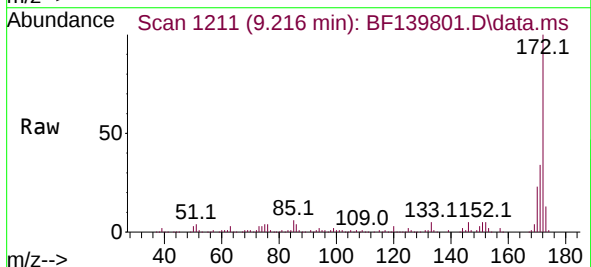
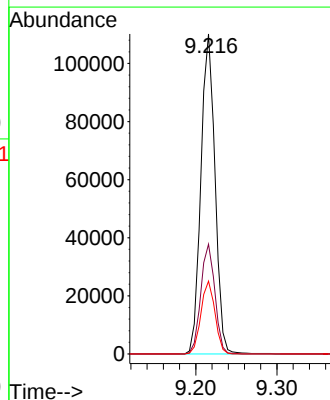
Tgt Ion:172 Resp: 133200

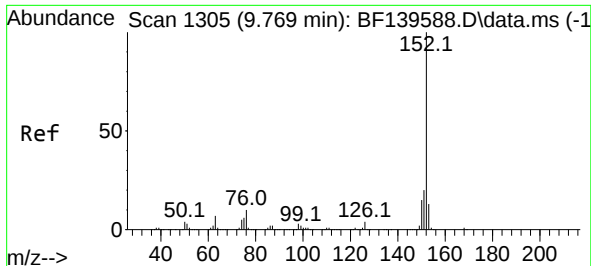
Ion Ratio Lower Upper

172 100

171 34.3 28.2 42.4

170 22.8 18.8 28.2





#49

Acenaphthylene

Concen: 2.592 ng

RT: 9.757 min Scan# 11

Delta R.T. -0.012 min

Lab File: BF139801.D

Acq: 14 Oct 2024 21:19

Instrument :

BNA_F

ClientSampleId :

SB-06-0.167-0.667

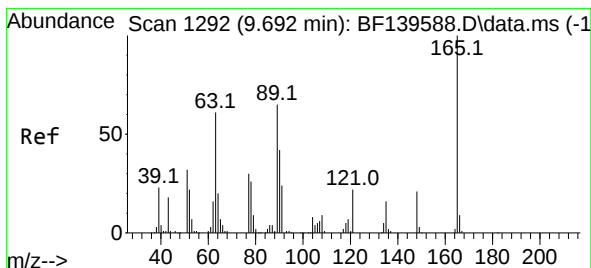
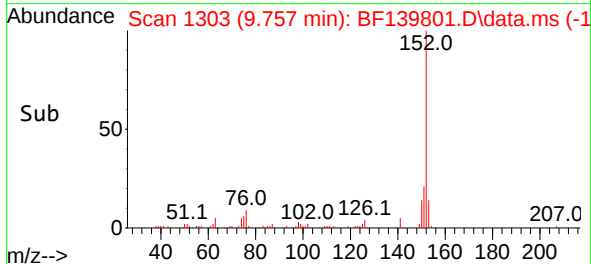
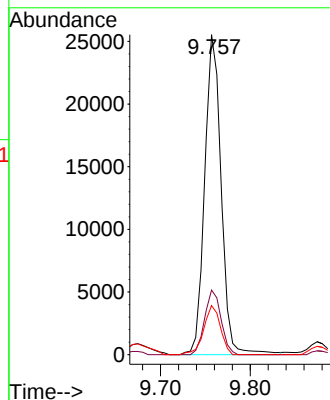
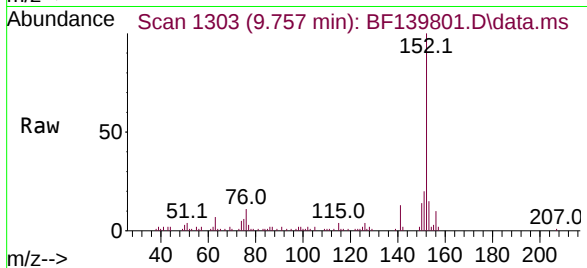
Tgt Ion:152 Resp: 32683

Ion Ratio Lower Upper

152 100

151 20.2 16.0 24.0

153 15.4 10.5 15.7



#51

2,6-Dinitrotoluene

Concen: 9.471 ng

RT: 9.898 min Scan# 1327

Delta R.T. 0.206 min

Lab File: BF139801.D

Acq: 14 Oct 2024 21:19

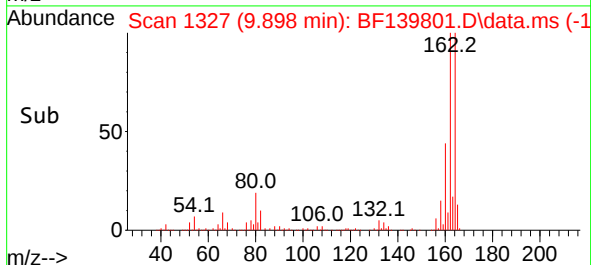
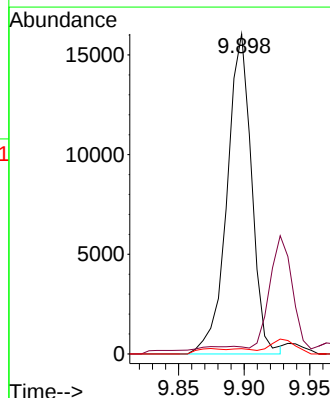
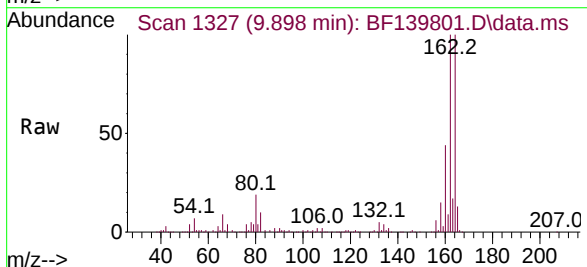
Tgt Ion:165 Resp: 20826

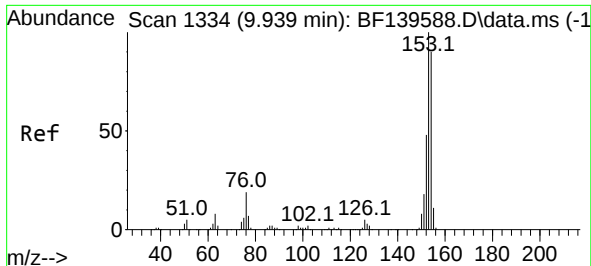
Ion Ratio Lower Upper

165 100

63 2.2 56.7 85.1#

89 1.7 51.6 77.4#

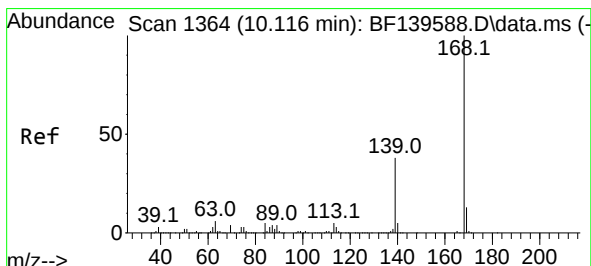
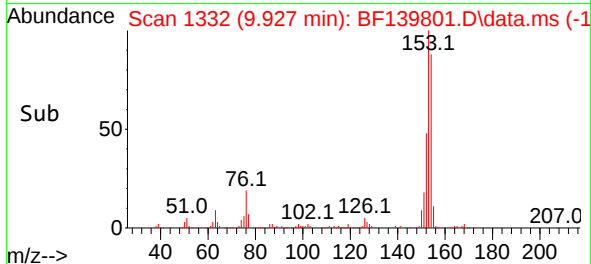
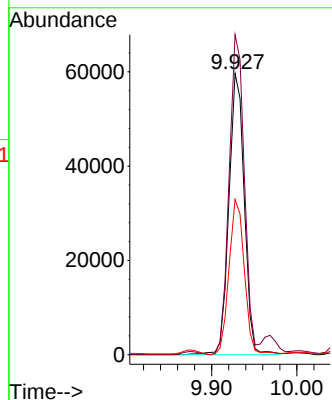
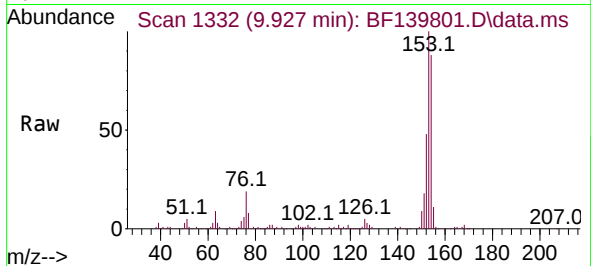




#52
Acenaphthene
Concen: 8.628 ng
RT: 9.927 min Scan# 1332
Delta R.T. -0.012 min
Lab File: BF139801.D
Acq: 14 Oct 2024 21:19

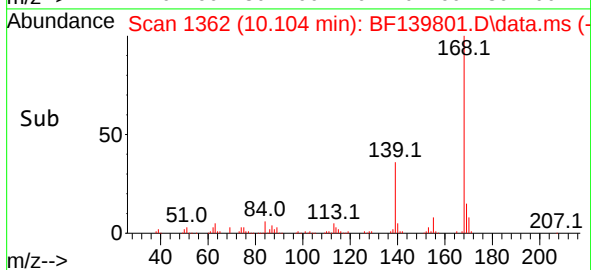
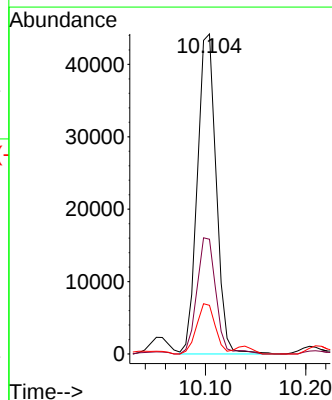
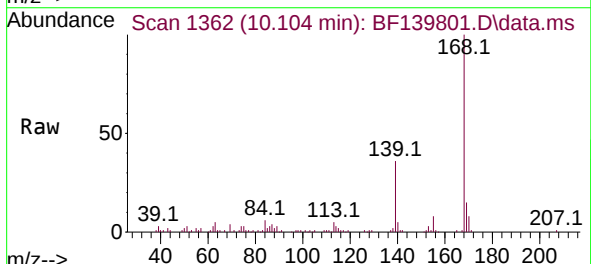
Instrument :
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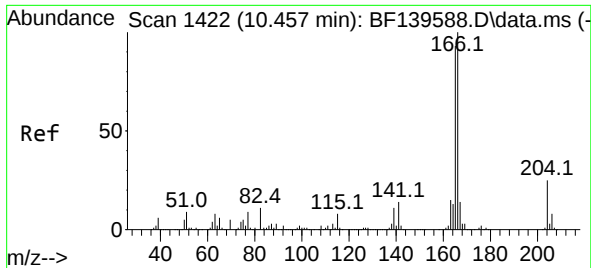
Tgt Ion:154 Resp: 74688
Ion Ratio Lower Upper
154 100
153 113.8 88.8 133.2
152 55.2 42.5 63.7



#55
Dibenzofuran
Concen: 4.766 ng
RT: 10.104 min Scan# 1362
Delta R.T. -0.012 min
Lab File: BF139801.D
Acq: 14 Oct 2024 21:19

Tgt Ion:168 Resp: 57768
Ion Ratio Lower Upper
168 100
139 35.8 30.4 45.6
169 15.2 10.7 16.1

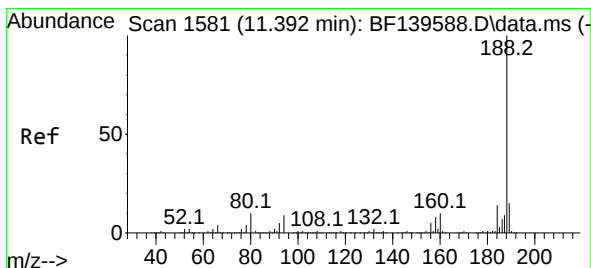
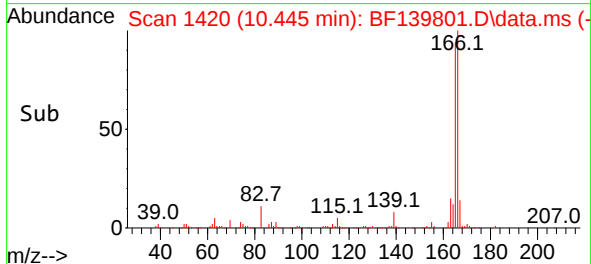
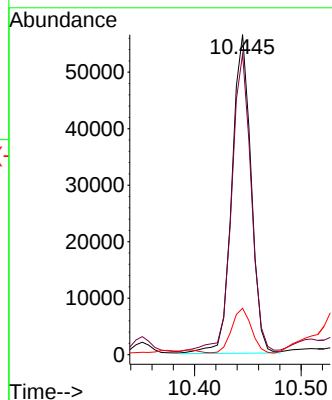
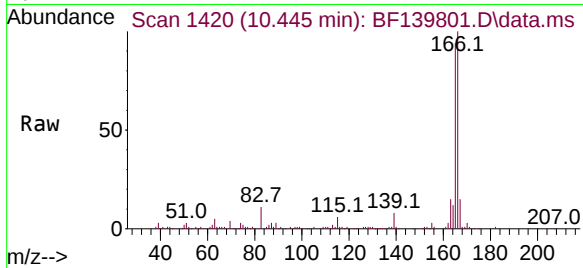




#58
Fluorene
Concen: 7.323 ng
RT: 10.445 min Scan# 1422
Delta R.T. -0.012 min
Lab File: BF139801.D
Acq: 14 Oct 2024 21:19

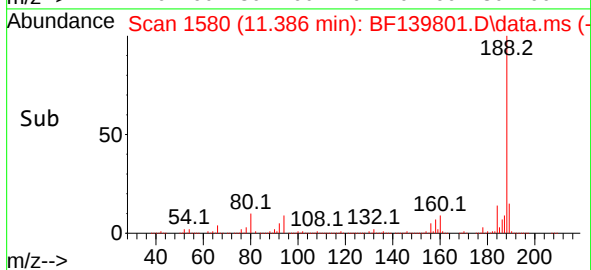
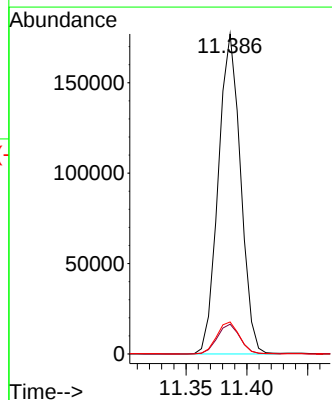
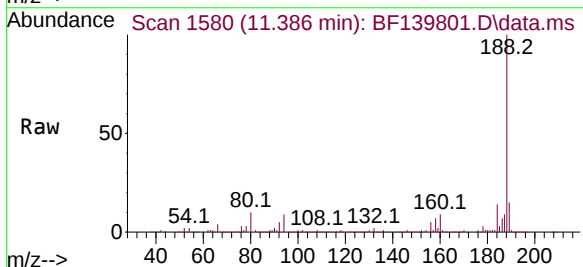
Instrument :
BNA_F
ClientSampleId :
SB-06-0.167-0.667

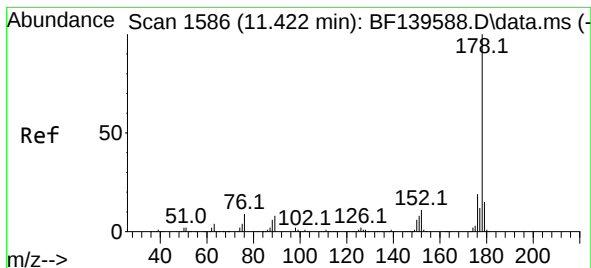
Tgt Ion:166 Resp: 70689
Ion Ratio Lower Upper
166 100
165 93.9 74.4 111.6
167 14.5 10.9 16.3



#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.386 min Scan# 1580
Delta R.T. -0.006 min
Lab File: BF139801.D
Acq: 14 Oct 2024 21:19

Tgt Ion:188 Resp: 225636
Ion Ratio Lower Upper
188 100
94 9.3 7.4 11.2
80 10.0 8.2 12.2





#71

Phenanthrene

Concen: 90.658 ng

RT: 11.416 min Scan# 11

Delta R.T. -0.006 min

Lab File: BF139801.D

Acq: 14 Oct 2024 21:19

Instrument :

BNA_F

ClientSampleId :

SB-06-0.167-0.667

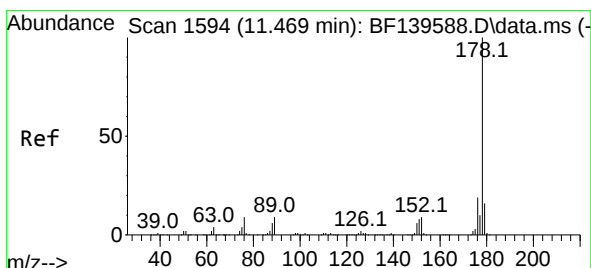
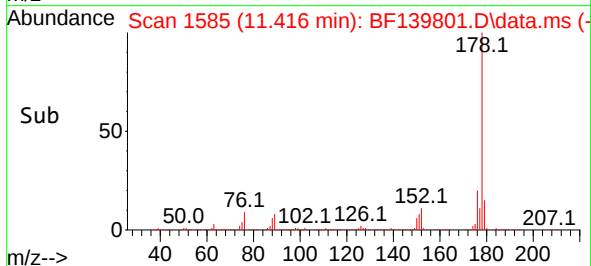
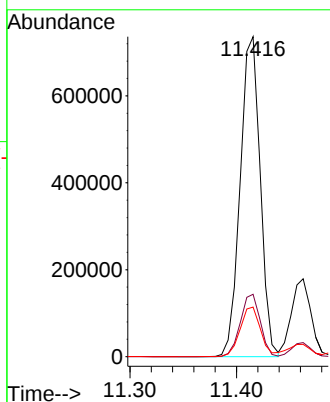
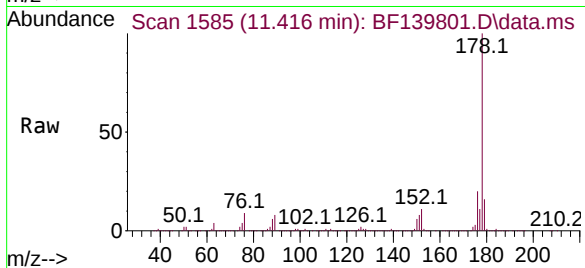
Tgt Ion:178 Resp: 964498

Ion Ratio Lower Upper

178 100

176 19.5 15.5 23.3

179 15.5 12.3 18.5



#72

Anthracene

Concen: 21.738 ng

RT: 11.463 min Scan# 1593

Delta R.T. -0.006 min

Lab File: BF139801.D

Acq: 14 Oct 2024 21:19

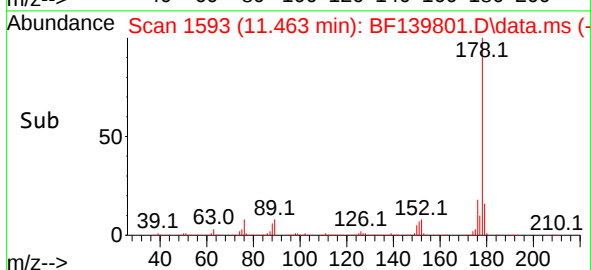
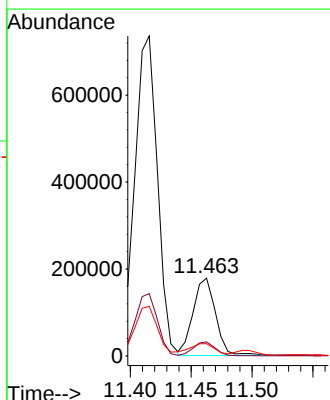
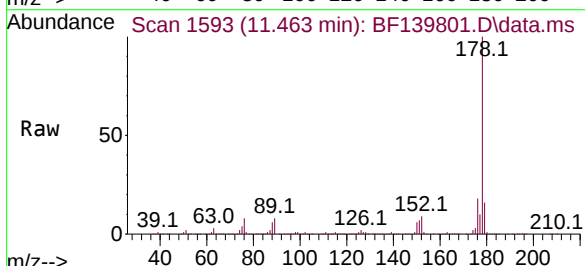
Tgt Ion:178 Resp: 228793

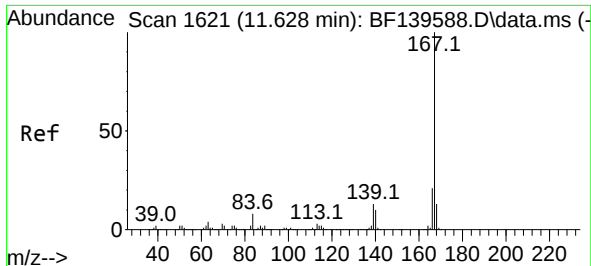
Ion Ratio Lower Upper

178 100

176 18.1 15.1 22.7

179 15.8 12.5 18.7

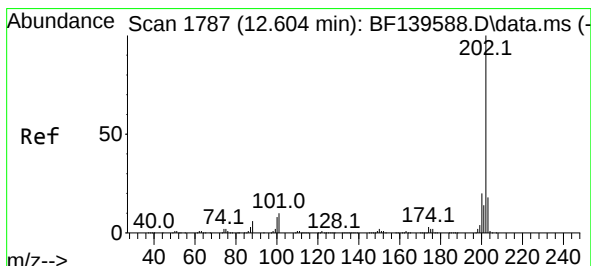
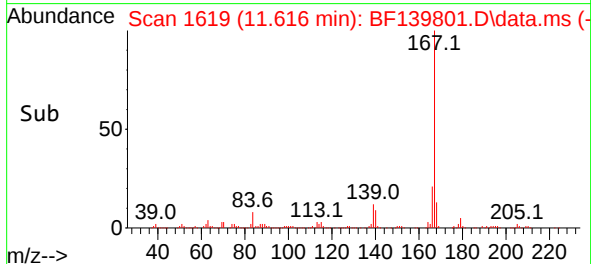
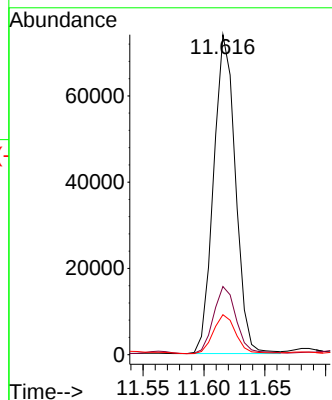
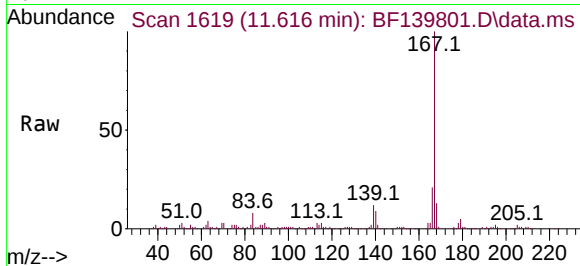




#73
Carbazole
Concen: 9.151 ng
RT: 11.616 min Scan# 1619
Delta R.T. -0.012 min
Lab File: BF139801.D
Acq: 14 Oct 2024 21:19

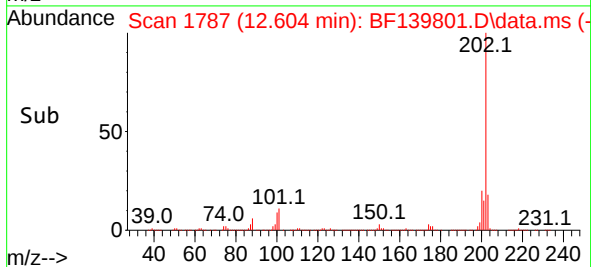
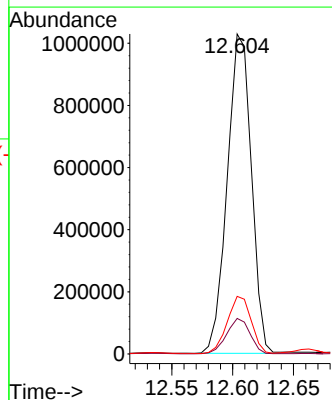
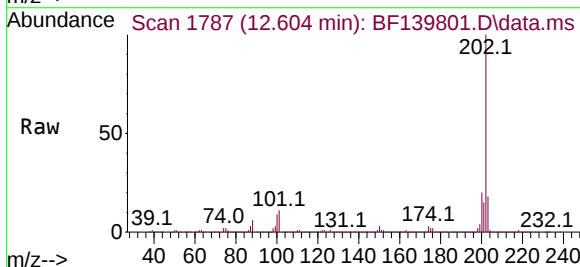
Instrument :
BNA_F
ClientSampleId :
SB-06-0.167-0.667

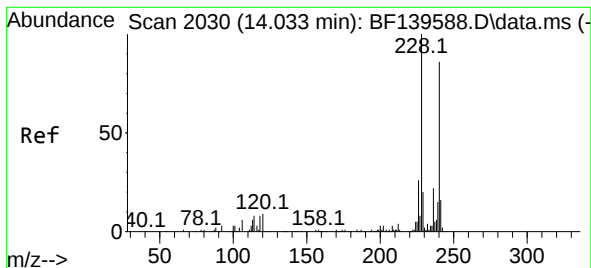
Tgt Ion:167 Resp: 92511
Ion Ratio Lower Upper
167 100
166 21.3 17.2 25.8
139 12.5 10.3 15.5



#75
Fluoranthene
Concen: 122.046 ng
RT: 12.604 min Scan# 1787
Delta R.T. -0.000 min
Lab File: BF139801.D
Acq: 14 Oct 2024 21:19

Tgt Ion:202 Resp: 1419380
Ion Ratio Lower Upper
202 100
101 11.1 0.0 30.2
203 18.0 0.0 37.7





#76

Chrysene-d12

Concen: 20.000 ng

RT: 14.033 min Scan# 2030

Delta R.T. 0.000 min

Lab File: BF139801.D

Acq: 14 Oct 2024 21:19

Instrument :

BNA_F

ClientSampleId :

SB-06-0.167-0.667

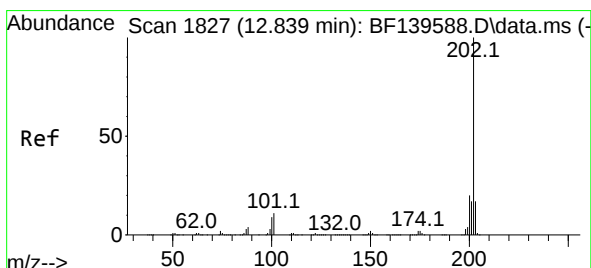
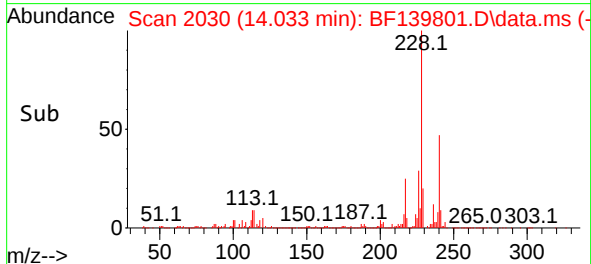
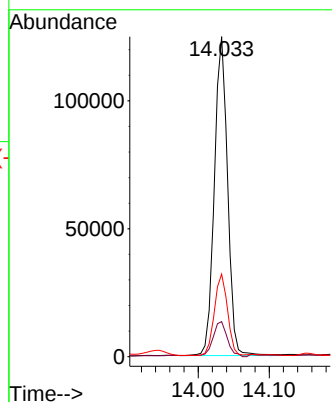
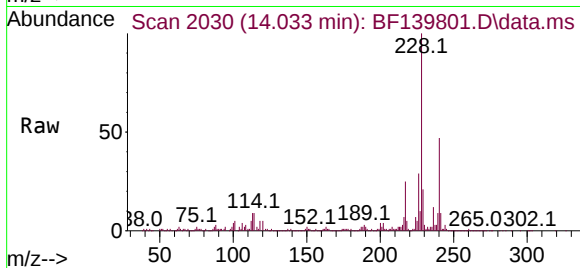
Tgt Ion:240 Resp: 160985

Ion Ratio Lower Upper

240 100

120 10.9 8.4 12.6

236 25.8 20.3 30.5



#78

Pyrene

Concen: 90.766 ng

RT: 12.833 min Scan# 1826

Delta R.T. -0.006 min

Lab File: BF139801.D

Acq: 14 Oct 2024 21:19

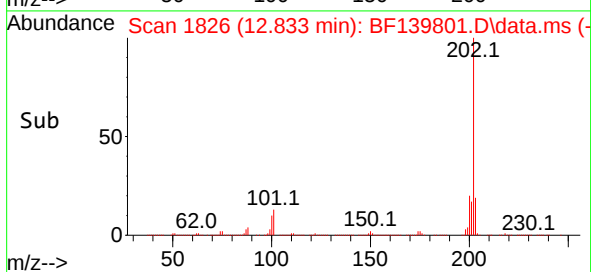
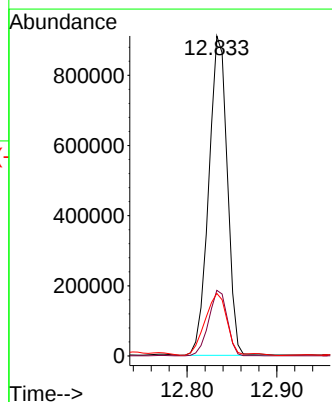
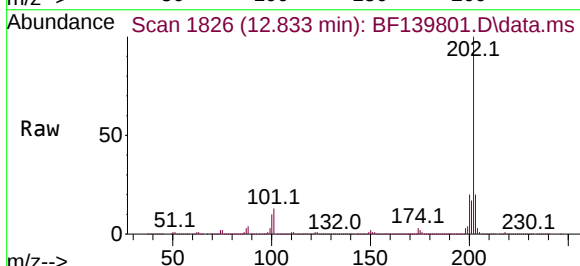
Tgt Ion:202 Resp: 1306877

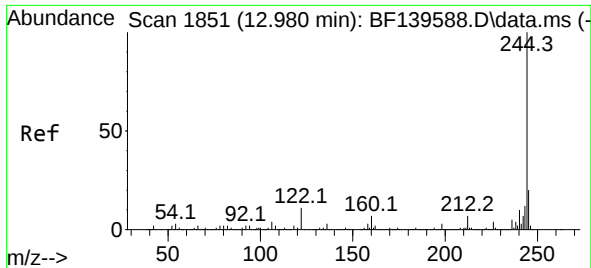
Ion Ratio Lower Upper

202 100

200 20.5 15.8 23.6

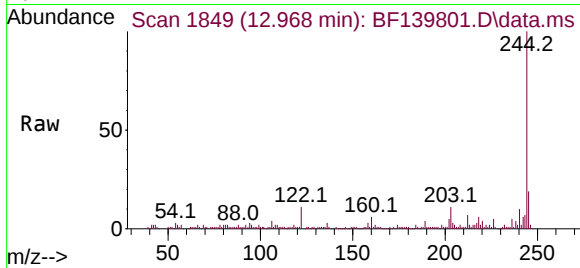
203 19.5 13.8 20.8



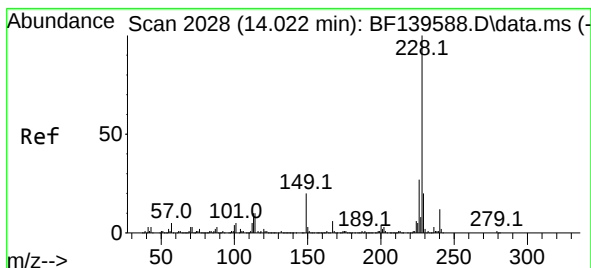
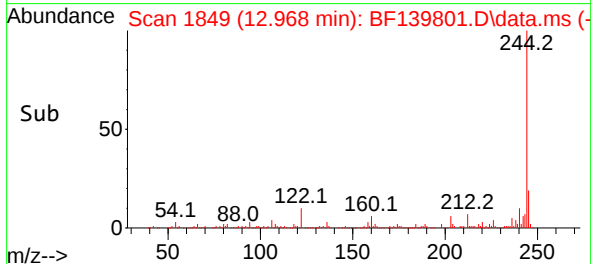
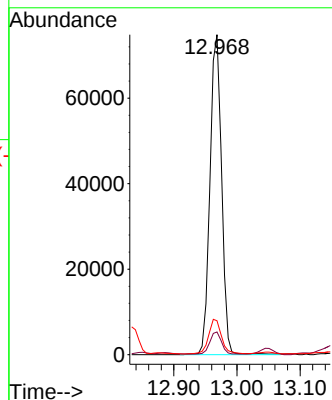


#79
 Terphenyl-d14
 Concen: 9.770 ng
 RT: 12.968 min Scan# 1849
 Delta R.T. -0.012 min
 Lab File: BF139801.D
 Acq: 14 Oct 2024 21:19

Instrument :
 BNA_F
 ClientSampleId :
 SB-06-0.167-0.667

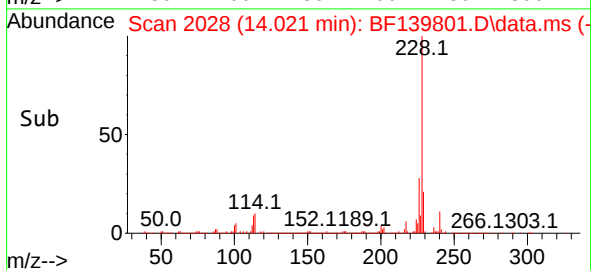
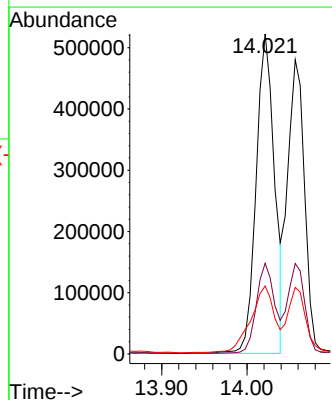
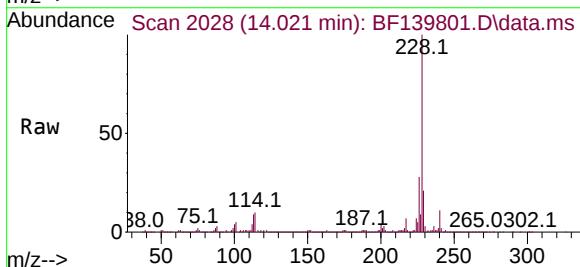


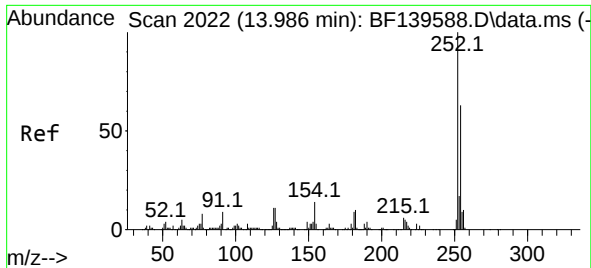
Tgt Ion:244 Resp: 95858
 Ion Ratio Lower Upper
 244 100
 212 7.1 5.8 8.6
 122 10.6 8.6 12.8



#81
 Benzo(a)anthracene
 Concen: 73.970 ng
 RT: 14.021 min Scan# 2028
 Delta R.T. -0.000 min
 Lab File: BF139801.D
 Acq: 14 Oct 2024 21:19

Tgt Ion:228 Resp: 782908
 Ion Ratio Lower Upper
 228 100
 226 28.4 21.8 32.8
 229 21.3 15.8 23.8

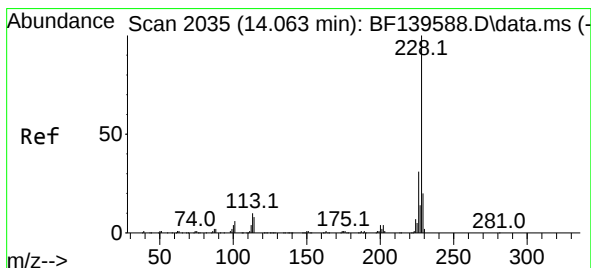
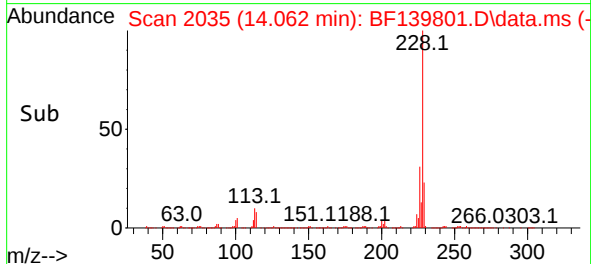
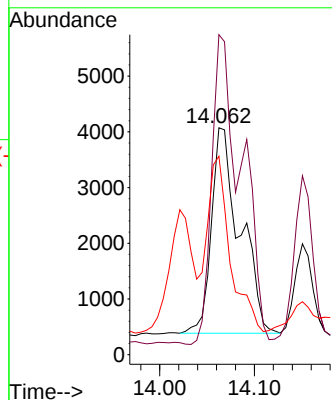
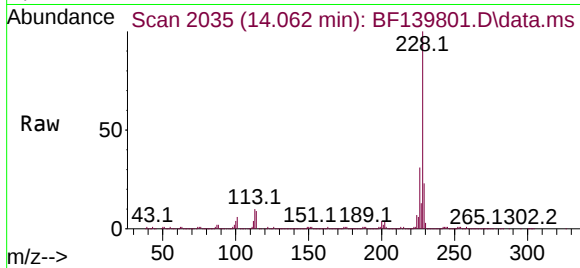




#82
 3,3'-Dichlorobenzidine
 Concen: 2.386 ng
 RT: 14.062 min Scan# 2022
 Delta R.T. 0.076 min
 Lab File: BF139801.D
 Acq: 14 Oct 2024 21:19

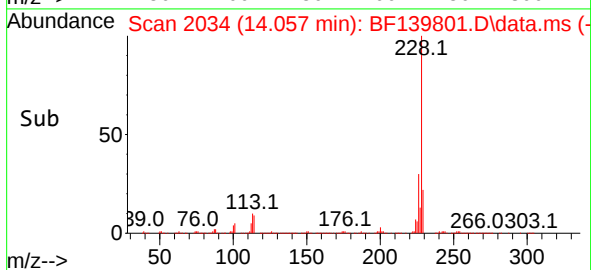
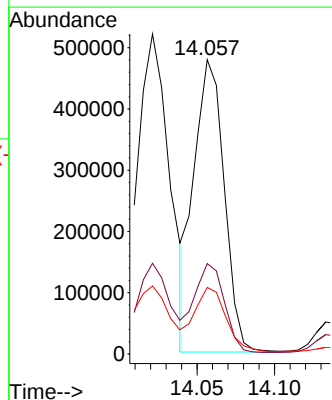
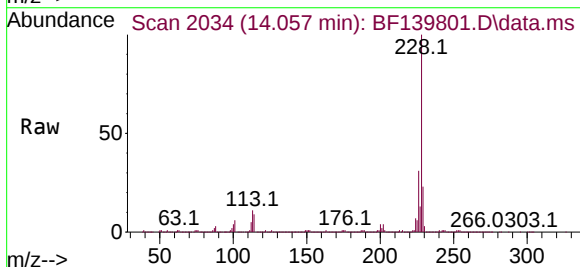
Instrument :
 BNA_F
 ClientSampleId :
 SB-06-0.167-0.667

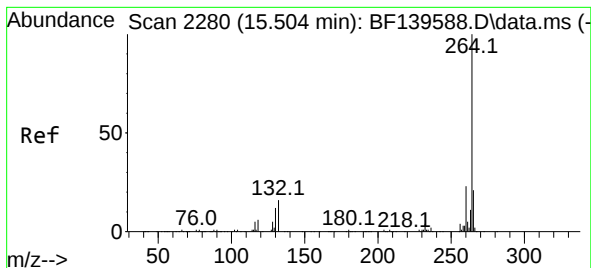
Tgt Ion:252 Resp: 7728
 Ion Ratio Lower Upper
 252 100
 254 141.0 50.5 75.7#
 126 87.4 8.8 13.2#



#83
 Chrysene
 Concen: 67.406 ng
 RT: 14.057 min Scan# 2034
 Delta R.T. -0.006 min
 Lab File: BF139801.D
 Acq: 14 Oct 2024 21:19

Tgt Ion:228 Resp: 652264
 Ion Ratio Lower Upper
 228 100
 226 30.7 24.3 36.5
 229 22.6 15.7 23.5





#86

Perylene-d12

Concen: 20.000 ng

RT: 15.504 min Scan# 21

Delta R.T. -0.000 min

Lab File: BF139801.D

Acq: 14 Oct 2024 21:19

Instrument :

BNA_F

ClientSampleId :

SB-06-0.167-0.667

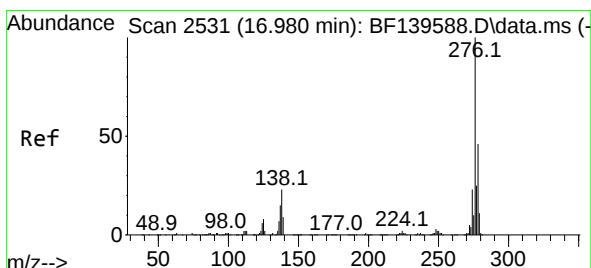
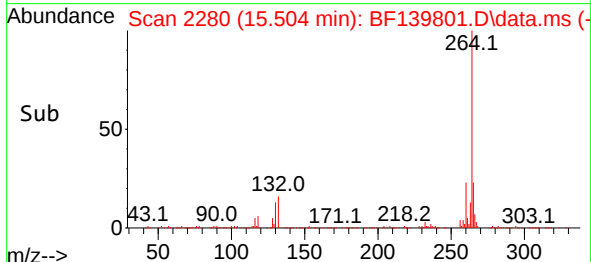
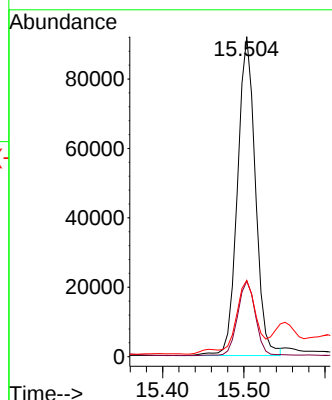
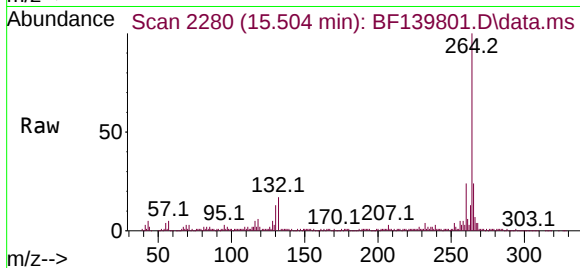
Tgt Ion:264 Resp: 140827

Ion Ratio Lower Upper

264 100

260 23.7 18.7 28.1

265 23.9 16.9 25.3



#87

Indeno(1,2,3-cd)pyrene

Concen: 25.509 ng

RT: 16.980 min Scan# 2531

Delta R.T. -0.000 min

Lab File: BF139801.D

Acq: 14 Oct 2024 21:19

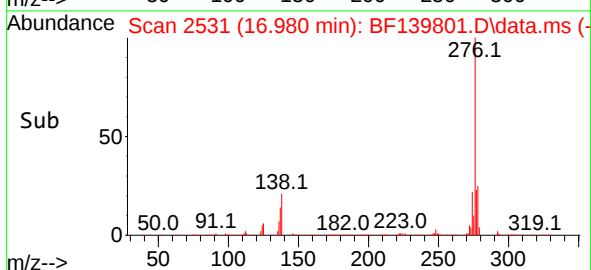
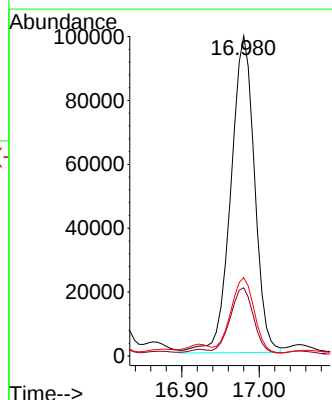
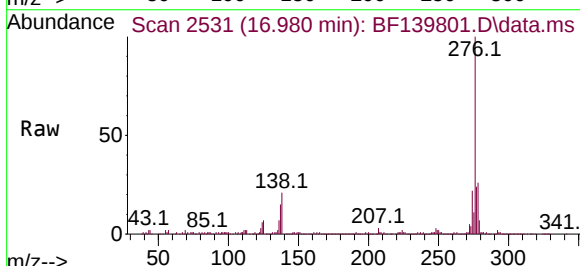
Tgt Ion:276 Resp: 211438

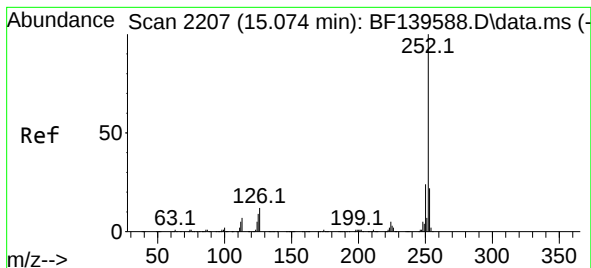
Ion Ratio Lower Upper

276 100

138 20.6 19.4 29.0

277 23.2 20.2 30.2





#88

Benzo(b)fluoranthene

Concen: 102.361 ng

RT: 15.080 min Scan# 21

Delta R.T. 0.006 min

Lab File: BF139801.D

Acq: 14 Oct 2024 21:19

Instrument :

BNA_F

ClientSampleId :

SB-06-0.167-0.667

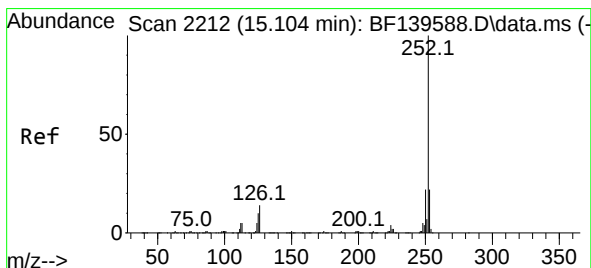
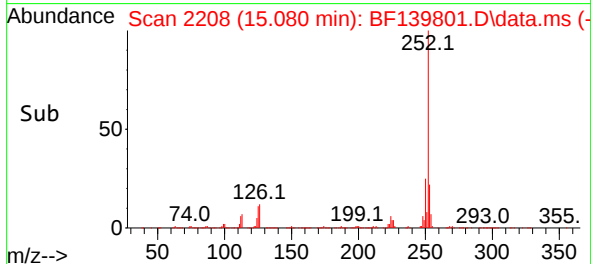
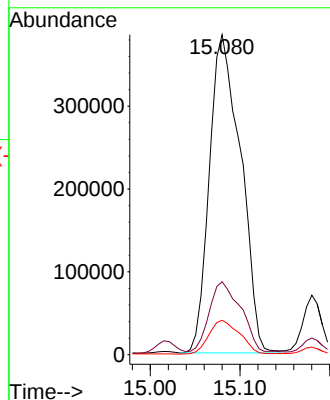
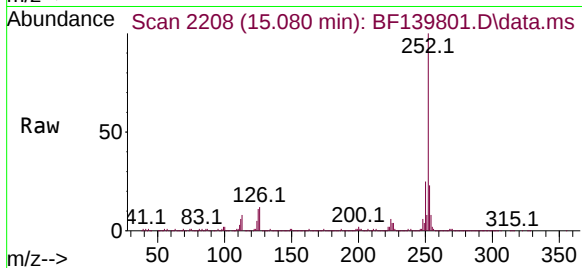
Tgt Ion:252 Resp: 932066

Ion Ratio Lower Upper

252 100

253 22.8 17.4 26.0

125 10.8 7.4 11.0



#89

Benzo(k)fluoranthene

Concen: 120.671 ng

RT: 15.080 min Scan# 2208

Delta R.T. -0.024 min

Lab File: BF139801.D

Acq: 14 Oct 2024 21:19

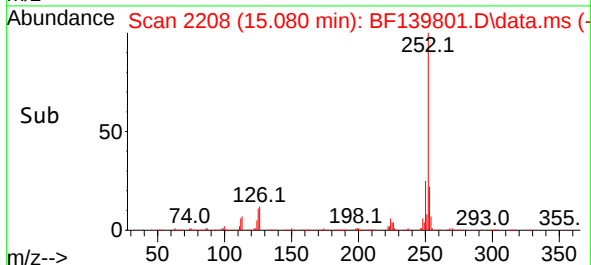
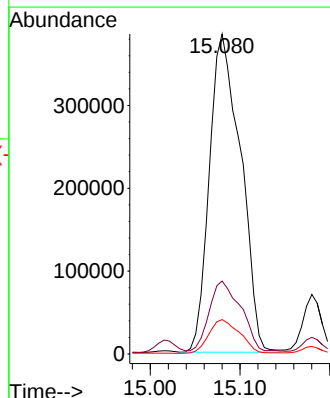
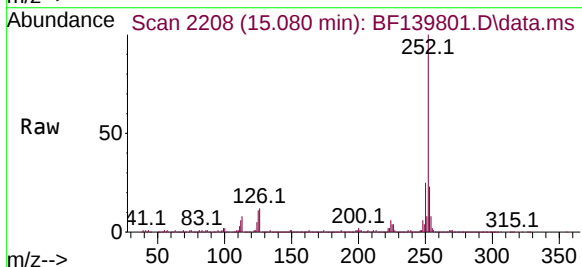
Tgt Ion:252 Resp: 932066

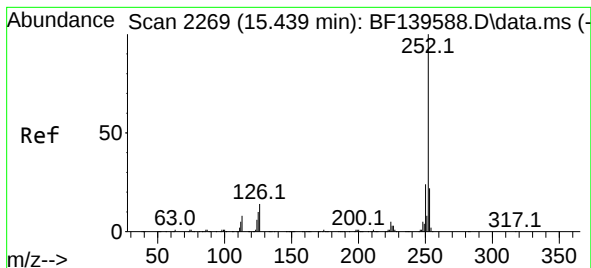
Ion Ratio Lower Upper

252 100

253 22.8 17.5 26.3

125 10.8 7.6 11.4





#90

Benzo(a)pyrene

Concen: 62.415 ng

RT: 15.445 min Scan# 21

Delta R.T. 0.006 min

Lab File: BF139801.D

Acq: 14 Oct 2024 21:19

Instrument :

BNA_F

ClientSampleId :

SB-06-0.167-0.667

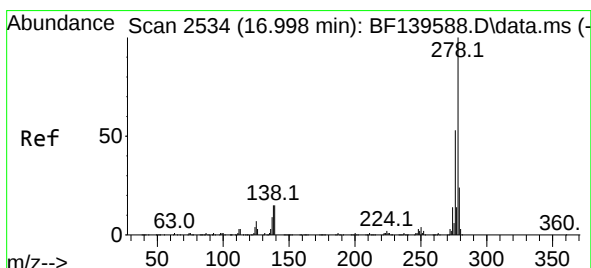
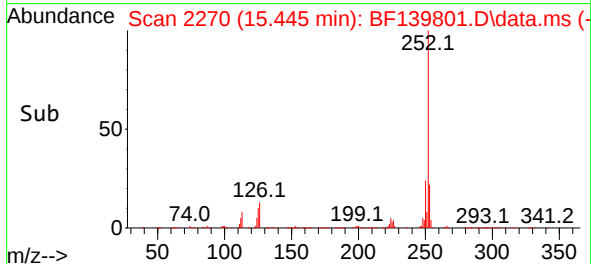
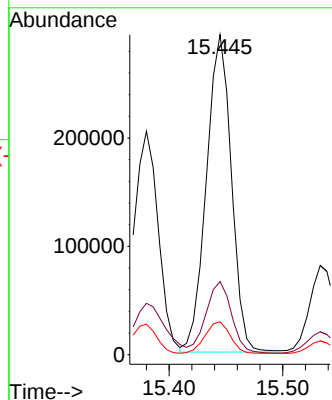
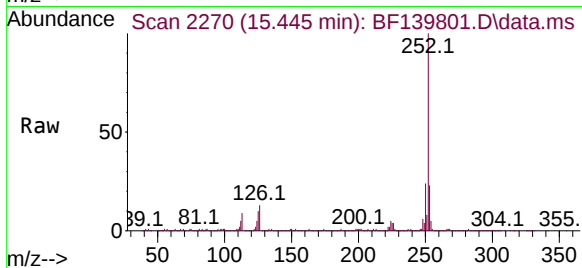
Tgt Ion:252 Resp: 448123

Ion Ratio Lower Upper

252 100

253 22.9 17.3 25.9

125 10.3 8.3 12.5



#91

Dibenzo(a,h)anthracene

Concen: 6.114 ng

RT: 17.156 min Scan# 2561

Delta R.T. 0.159 min

Lab File: BF139801.D

Acq: 14 Oct 2024 21:19

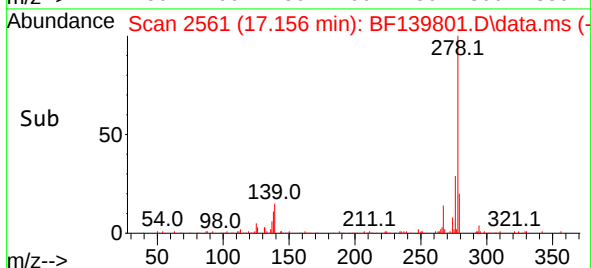
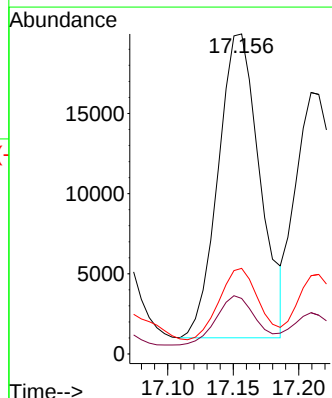
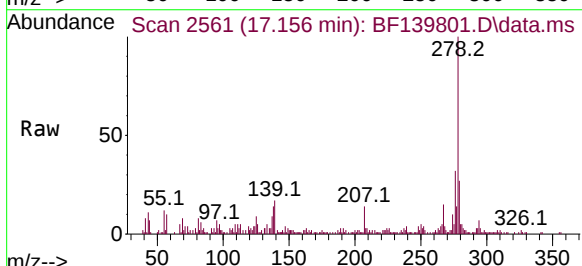
Tgt Ion:278 Resp: 42032

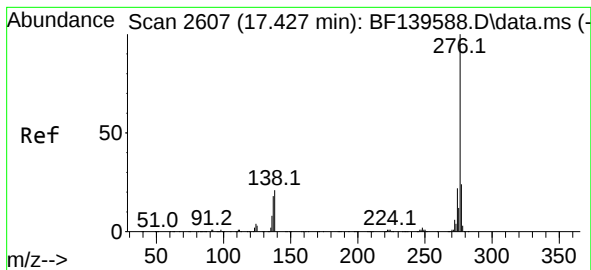
Ion Ratio Lower Upper

278 100

139 17.4 12.2 18.4

279 26.8 19.2 28.8





#92

Benzo(g,h,i)perylene

Concen: 28.216 ng

RT: 17.427 min Scan# 20

Delta R.T. -0.000 min

Lab File: BF139801.D

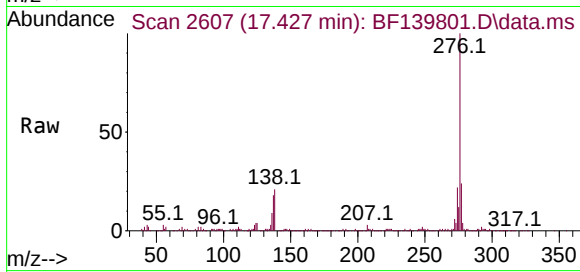
Acq: 14 Oct 2024 21:19

Instrument :

BNA_F

ClientSampleId :

SB-06-0.167-0.667



Tgt Ion:276 Resp: 194542

Ion Ratio Lower Upper

276 100

277 23.8 19.0 28.6

138 20.7 17.0 25.6

