

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF011524\
 Data File : BF137061.D
 Acq On : 15 Jan 2024 14:13
 Operator : CG\JU
 Sample : 05789-05
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 E8965C-5-001

Quant Time: Jan 15 14:36:14 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF122023.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Dec 21 01:54:25 2023
 Response via : Initial Calibration

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

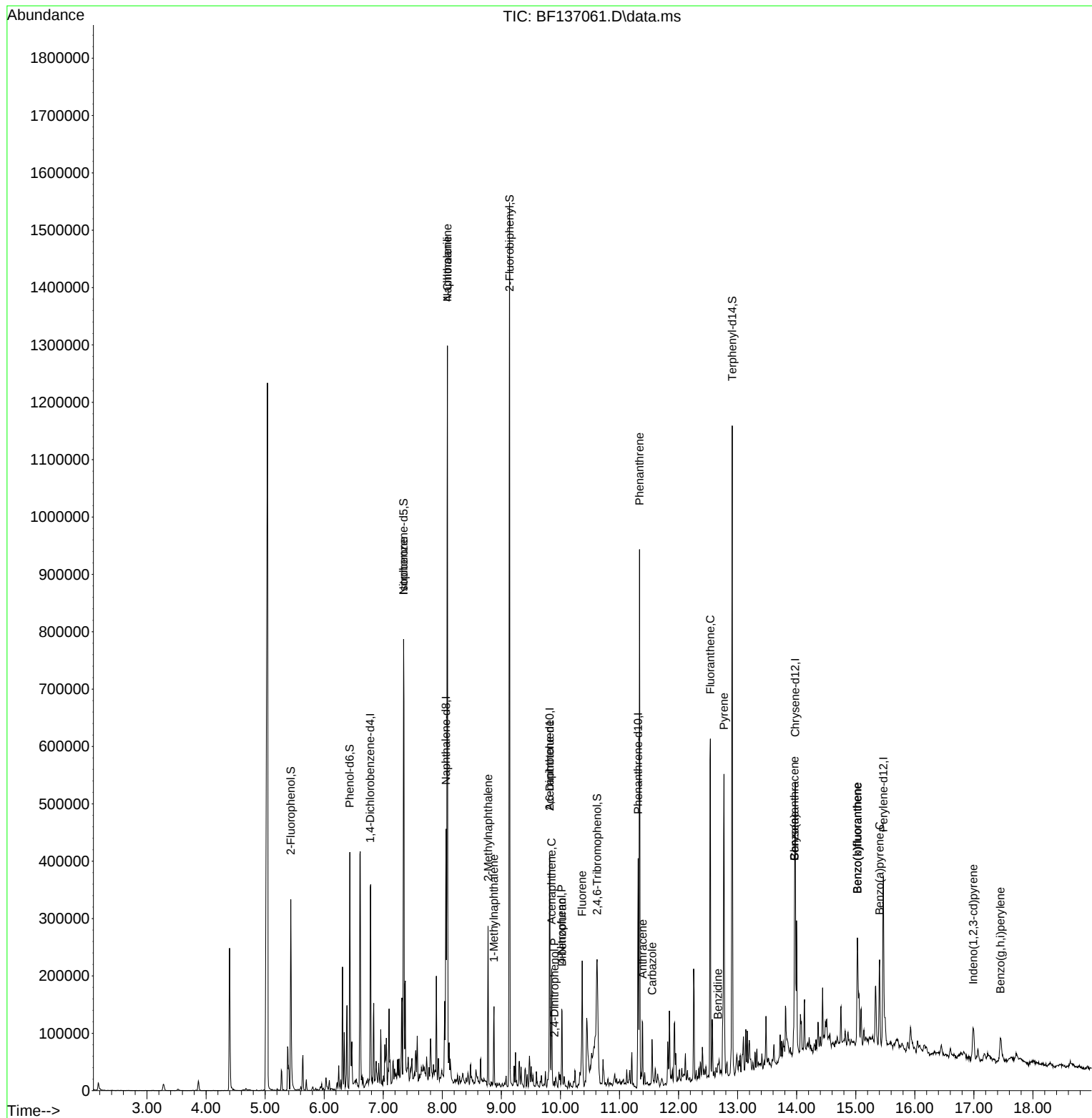
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.781	152	49250	20.000	ng	-0.01
21) Naphthalene-d8	8.063	136	183663	20.000	ng	0.00
39) Acenaphthene-d10	9.816	164	85938	20.000	ng	-0.01
64) Phenanthrene-d10	11.316	188	144281	20.000	ng	0.00
76) Chrysene-d12	13.974	240	125033	20.000	ng	0.00
86) Perylene-d12	15.468	264	134636	20.000	ng	0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.434	112	100751	31.919	ng	0.00
7) Phenol-d6	6.434	99	142434	34.825	ng	0.00
23) Nitrobenzene-d5	7.345	82	237092	66.057	ng	-0.01
42) 2,4,6-Tribromophenol	10.621	330	9021	8.913	ng	0.00
45) 2-Fluorobiphenyl	9.139	172	440742	68.979	ng	-0.01
79) Terphenyl-d14	12.910	244	366840	41.001	ng	0.00
Target Compounds						Qvalue
25) Isophorone	7.345	82	237428	36.354	ng	# 65
31) Naphthalene	8.086	128	518126	51.351	ng	99
33) 4-Chloroaniline	8.086	127	67340	18.076	ng	# 35
37) 2-Methylnaphthalene	8.775	142	63938	9.846	ng	96
38) 1-Methylnaphthalene	8.875	142	34719	5.450	ng	99
51) 2,6-Dinitrotoluene	9.816	165	12427	8.723	ng	# 31
52) Acenaphthene	9.851	154	37243	7.170	ng	97
54) 2,4-Dinitrophenol	9.898	184	84	3.836	ng	# 1
55) Dibenzofuran	10.027	168	51719	6.568	ng	93
56) 4-Nitrophenol	10.022	139	16925	16.614	ng	# 9
58) Fluorene	10.369	166	45436	7.272	ng	99
71) Phenanthrene	11.339	178	310527	41.945	ng	99
72) Anthracene	11.392	178	47199	6.295	ng	96
73) Carbazole	11.551	167	29041	4.108	ng	99
75) Fluoranthene	12.539	202	250677	31.656	ng	99
77) Benzidine	12.668	184	11116	3.015	ng	# 92
78) Pyrene	12.768	202	215238	17.536	ng	99
81) Benzo(a)anthracene	13.962	228	91025	10.484	ng	98
83) Chrysene	13.962	228	91025	10.721	ng	95
87) Indeno(1,2,3-cd)pyrene	16.992	276	37559	3.864	ng	97
88) Benzo(b)fluoranthene	15.027	252	140056	15.575	ng	# 96
89) Benzo(k)fluoranthene	15.027	252	140325	16.515	ng	96
90) Benzo(a)pyrene	15.404	252	68706	9.051	ng	98
92) Benzo(g,h,i)perylene	17.450	276	36598	4.481	ng	95

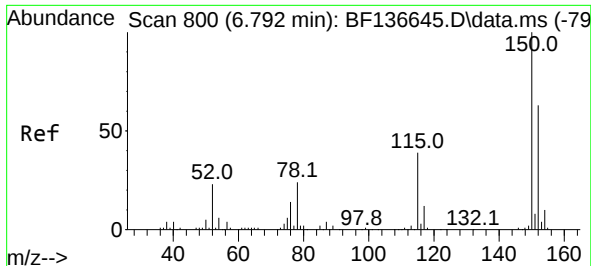
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF011524\
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Quant Time: Jan 15 14:36:14 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF122023.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 21 01:54:25 2023
Response via : Initial Calibration

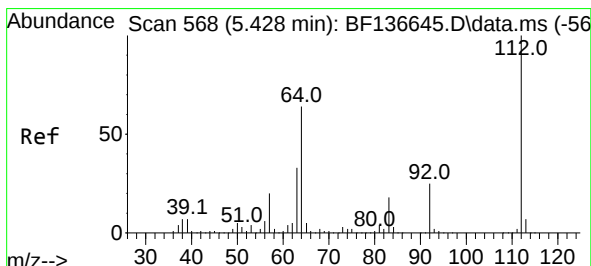
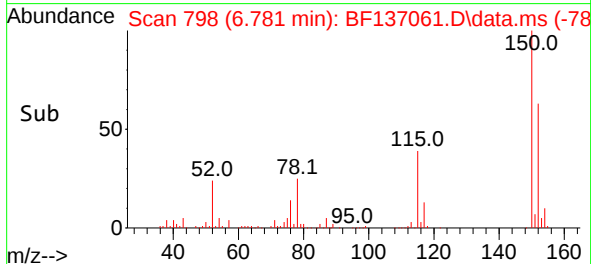
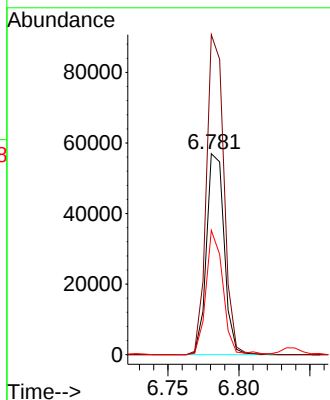
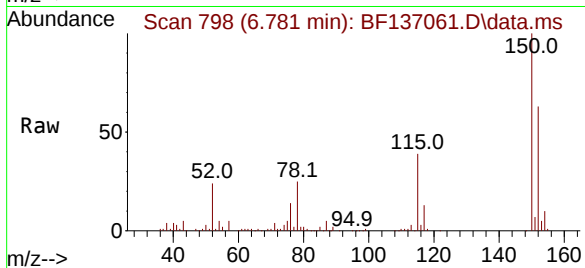




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.781 min Scan# 79
Delta R.T. -0.011 min
Lab File: BF137061.D
Acq: 15 Jan 2024 14:13

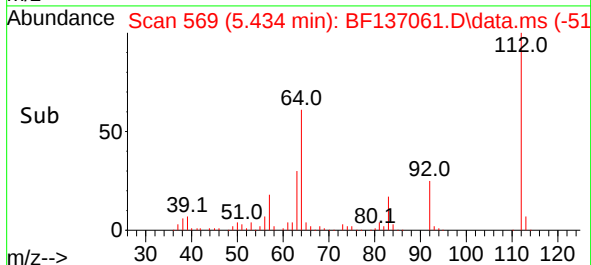
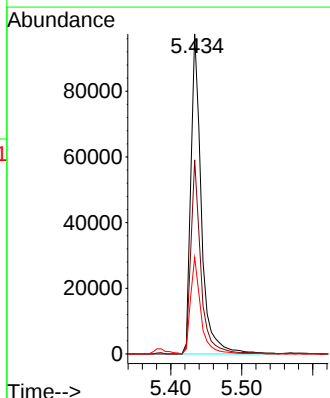
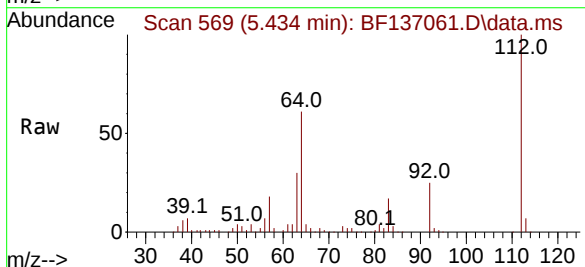
Instrument :
BNA_F
ClientSampleId :
E8965C-5-001

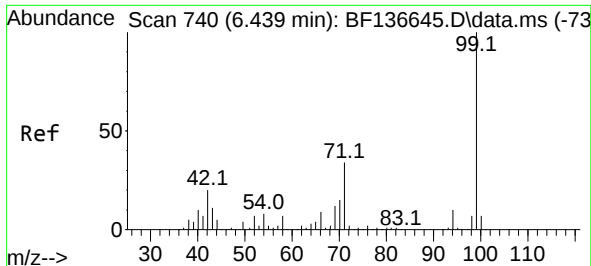
Tgt Ion:152 Resp: 49250
Ion Ratio Lower Upper
152 100
150 159.3 127.0 190.6
115 61.9 49.0 73.4



#5
2-Fluorophenol
Concen: 31.919 ng
RT: 5.434 min Scan# 569
Delta R.T. 0.006 min
Lab File: BF137061.D
Acq: 15 Jan 2024 14:13

Tgt Ion:112 Resp: 100751
Ion Ratio Lower Upper
112 100
64 60.7 51.1 76.7
63 30.1 26.1 39.1

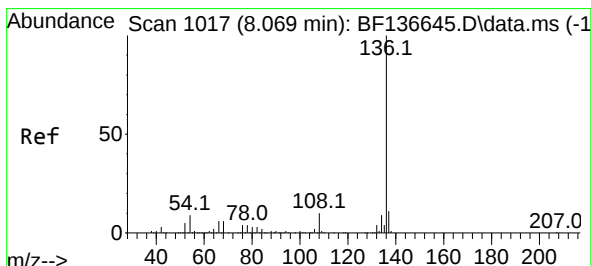
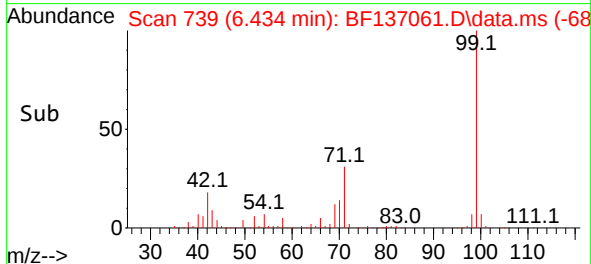
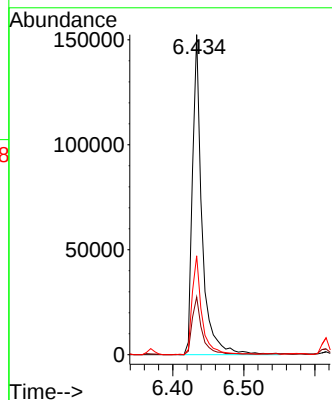
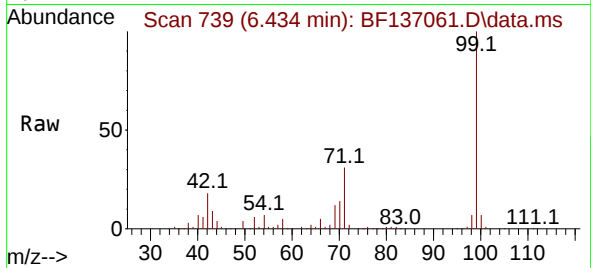




#7
Phenol-d6
Concen: 34.825 ng
RT: 6.434 min Scan# 71
Delta R.T. -0.006 min
Lab File: BF137061.D
Acq: 15 Jan 2024 14:13

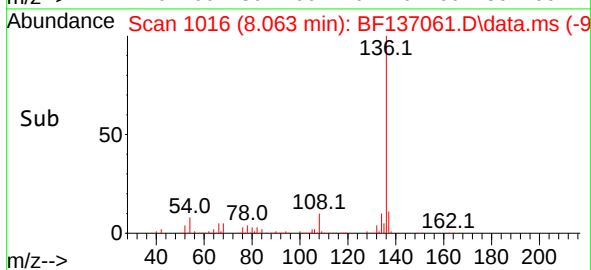
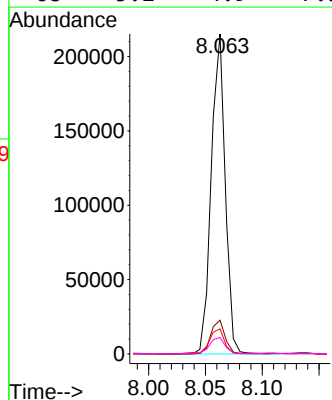
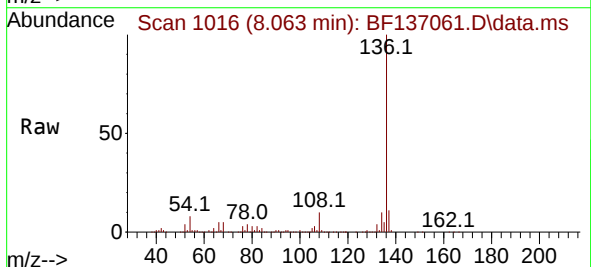
Instrument :
BNA_F
ClientSampleId :
E8965C-5-001

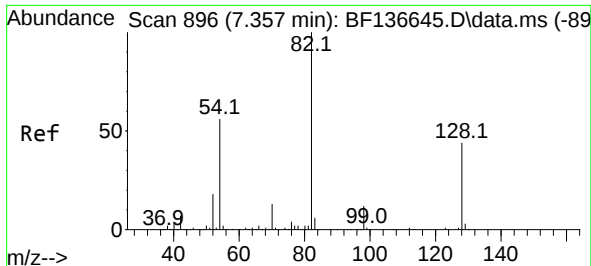
Tgt Ion: 99 Resp: 142434
Ion Ratio Lower Upper
99 100
42 18.0 16.1 24.1
71 30.9 27.4 41.2



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.063 min Scan# 1016
Delta R.T. -0.006 min
Lab File: BF137061.D
Acq: 15 Jan 2024 14:13

Tgt Ion:136 Resp: 183663
Ion Ratio Lower Upper
136 100
137 10.6 9.0 13.4
54 7.8 7.2 10.8
68 5.2 4.9 7.3

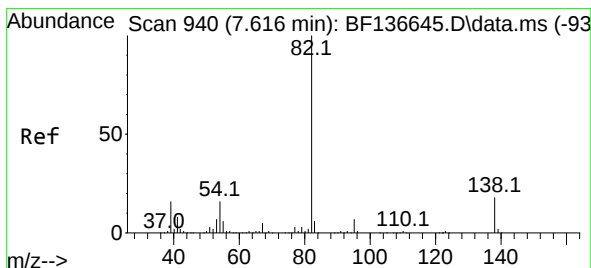
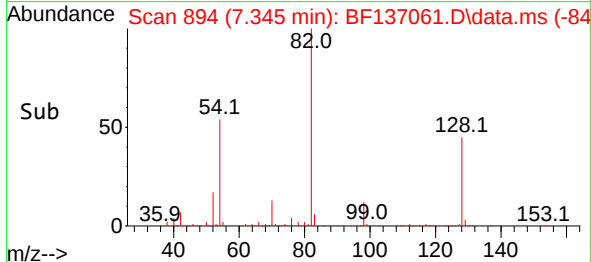
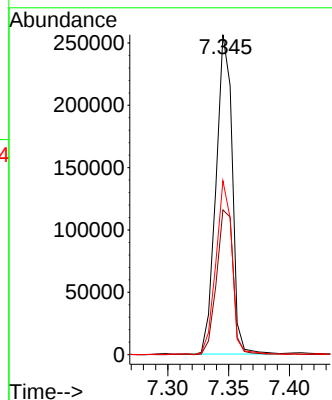
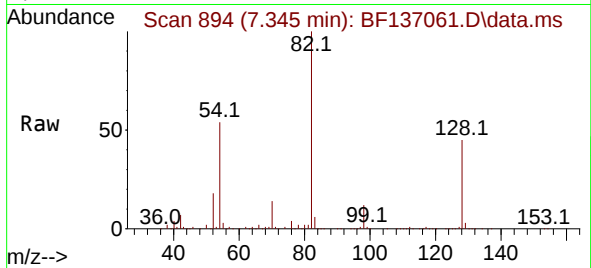




#23
Nitrobenzene-d5
Concen: 66.057 ng
RT: 7.345 min Scan# 894
Delta R.T. -0.012 min
Lab File: BF137061.D
Acq: 15 Jan 2024 14:13

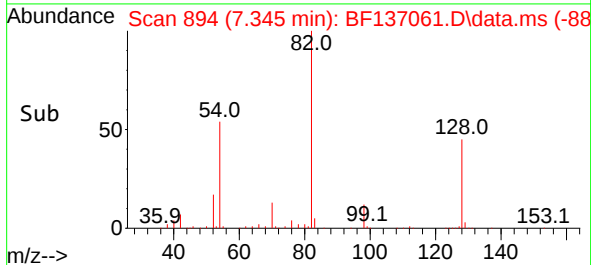
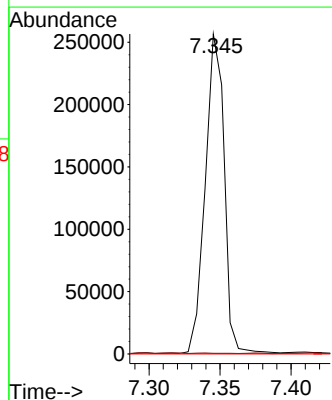
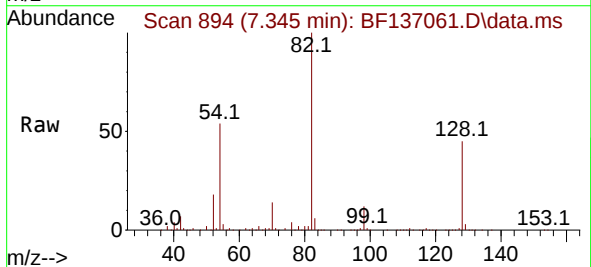
Instrument :
BNA_F
ClientSampleId :
E8965C-5-001

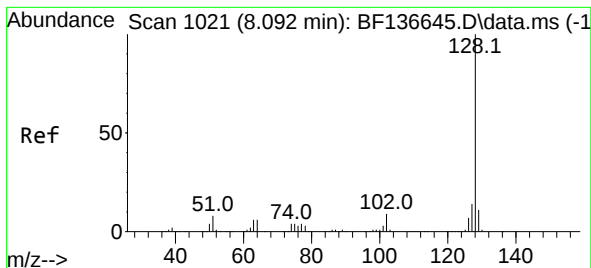
Tgt Ion: 82 Resp: 237092
Ion Ratio Lower Upper
82 100
128 45.2 35.3 52.9
54 54.3 44.5 66.7



#25
Isophorone
Concen: 36.354 ng
RT: 7.345 min Scan# 894
Delta R.T. -0.271 min
Lab File: BF137061.D
Acq: 15 Jan 2024 14:13

Tgt Ion: 82 Resp: 237428
Ion Ratio Lower Upper
82 100
95 0.2 5.5 8.3#
138 0.0 14.5 21.7#





#31

Naphthalene

Concen: 51.351 ng

RT: 8.086 min Scan# 1020

Delta R.T. -0.006 min

Lab File: BF137061.D

Acq: 15 Jan 2024 14:13

Instrument :

BNA_F

ClientSampleId :

E8965C-5-001

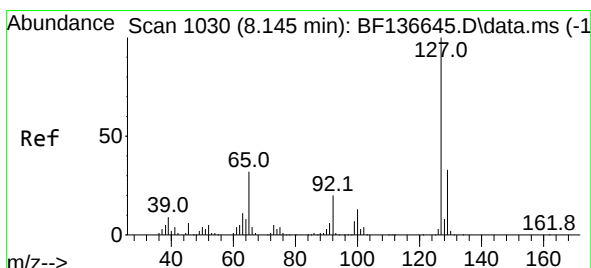
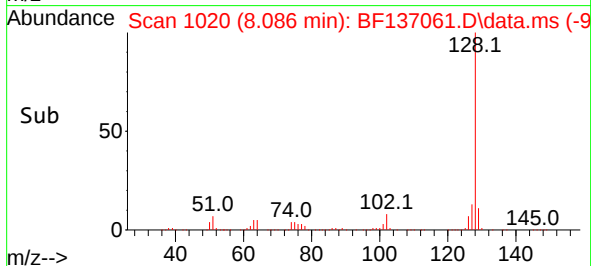
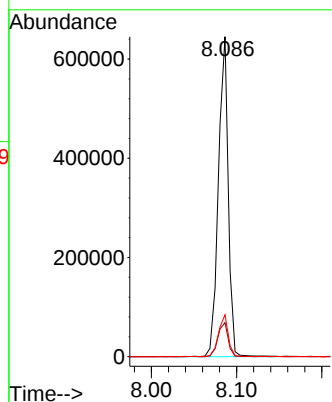
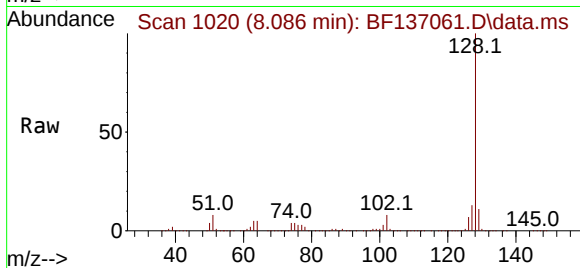
Tgt Ion:128 Resp: 518126

Ion Ratio Lower Upper

128 100

129 10.6 8.7 13.1

127 13.1 10.8 16.2



#33

4-Chloroaniline

Concen: 18.076 ng

RT: 8.086 min Scan# 1020

Delta R.T. -0.059 min

Lab File: BF137061.D

Acq: 15 Jan 2024 14:13

Tgt Ion:127 Resp: 67340

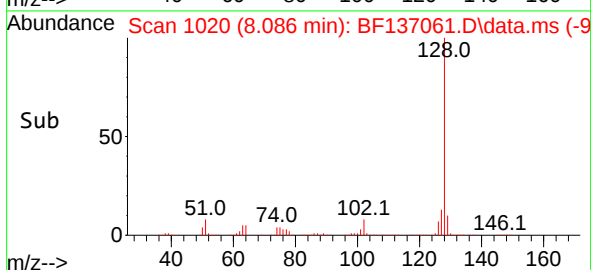
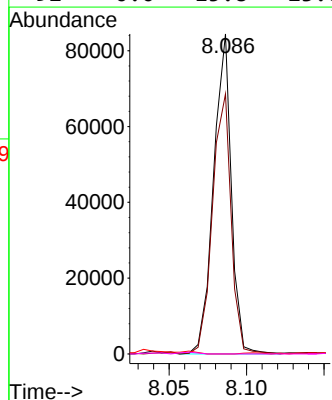
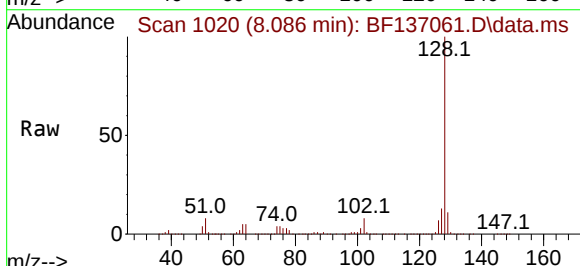
Ion Ratio Lower Upper

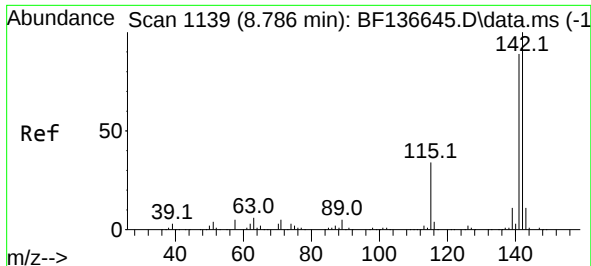
127 100

129 81.2 26.3 39.5#

65 0.0 25.8 38.8#

92 0.0 15.8 23.6#





#37

2-Methylnaphthalene

Concen: 9.846 ng

RT: 8.775 min Scan# 1137

Delta R.T. -0.012 min

Lab File: BF137061.D

Acq: 15 Jan 2024 14:13

Instrument :

BNA_F

ClientSampleId :

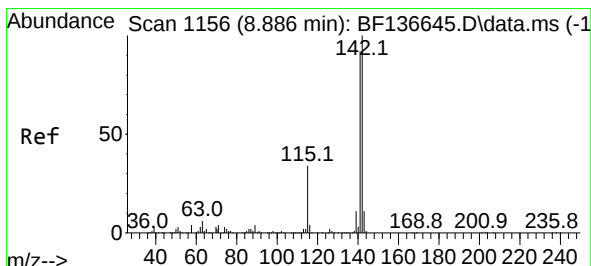
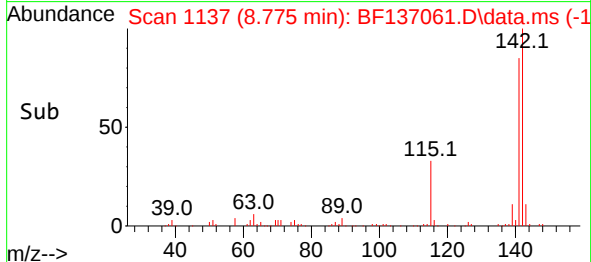
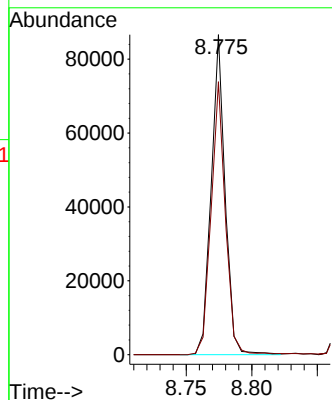
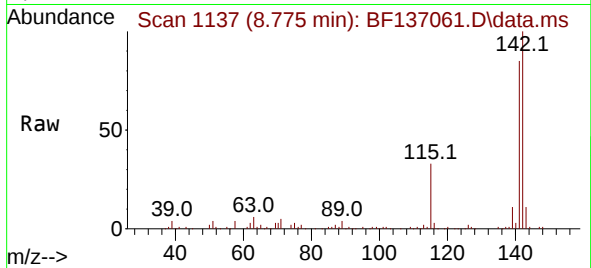
E8965C-5-001

Tgt Ion:142 Resp: 63938

Ion Ratio Lower Upper

142 100

141 85.3 71.1 106.7



#38

1-Methylnaphthalene

Concen: 5.450 ng

RT: 8.875 min Scan# 1154

Delta R.T. -0.012 min

Lab File: BF137061.D

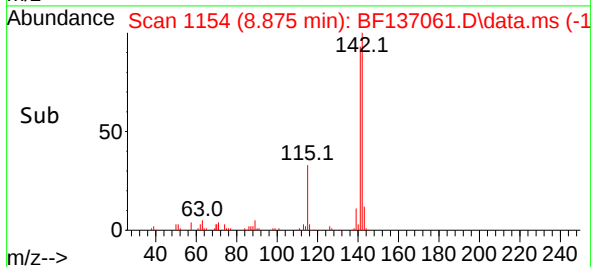
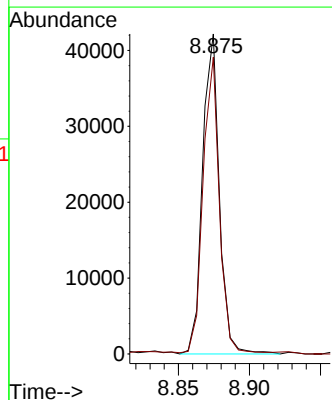
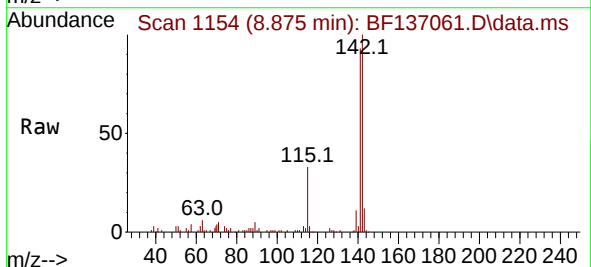
Acq: 15 Jan 2024 14:13

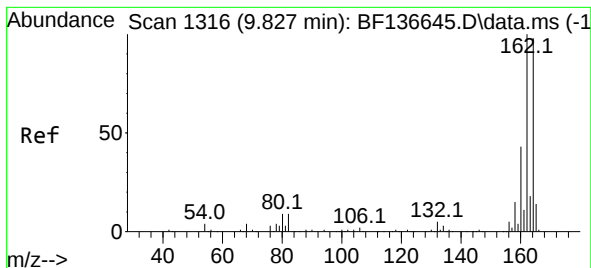
Tgt Ion:142 Resp: 34719

Ion Ratio Lower Upper

142 100

141 92.8 73.6 110.4





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.816 min Scan# 1

Delta R.T. -0.012 min

Lab File: BF137061.D

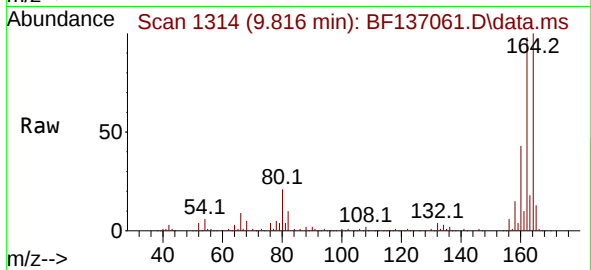
Acq: 15 Jan 2024 14:13

Instrument :

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ClientSampleId :

E8965C-5-001



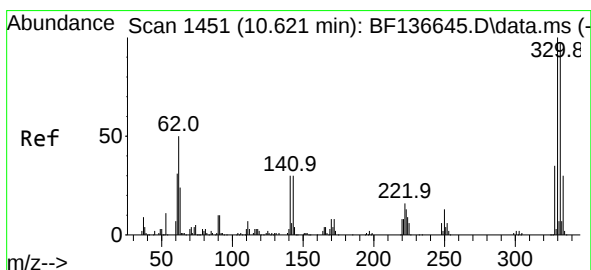
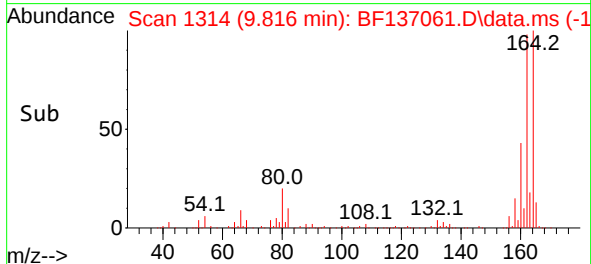
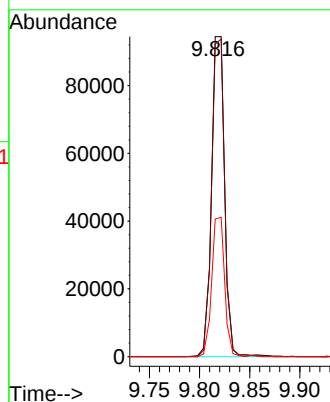
Tgt Ion:164 Resp: 85938

Ion Ratio Lower Upper

164 100

162 97.7 81.6 122.4

160 43.0 34.9 52.3



#42

2,4,6-Tribromophenol

Concen: 8.913 ng

RT: 10.621 min Scan# 1451

Delta R.T. 0.000 min

Lab File: BF137061.D

Acq: 15 Jan 2024 14:13

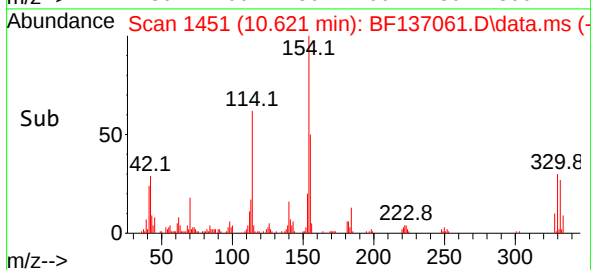
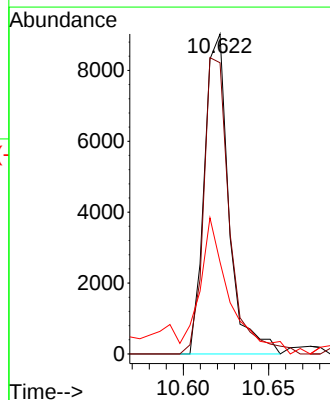
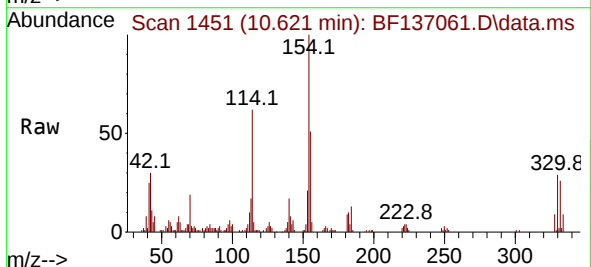
Tgt Ion:330 Resp: 9021

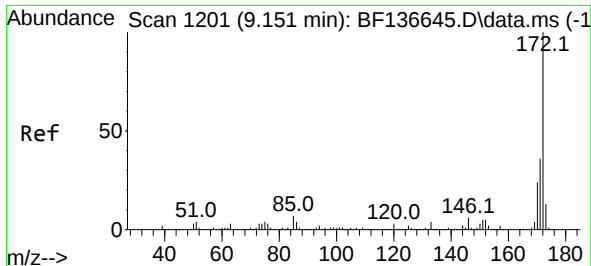
Ion Ratio Lower Upper

330 100

332 97.9 77.4 116.0

141 60.8 23.4 35.2#

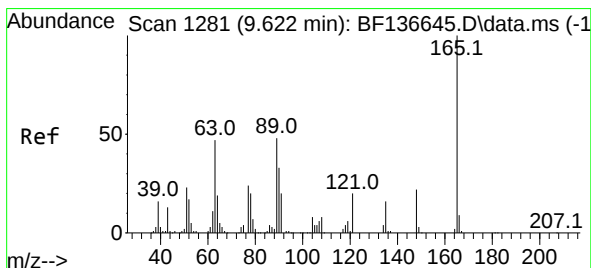
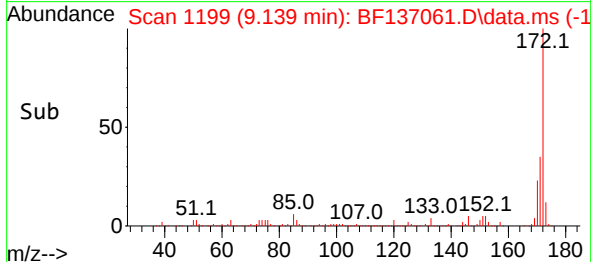
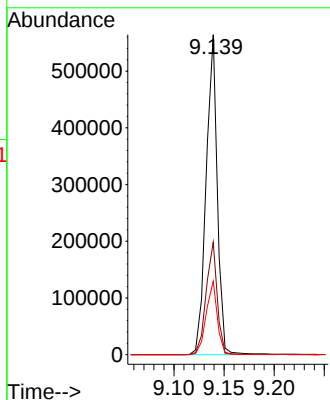
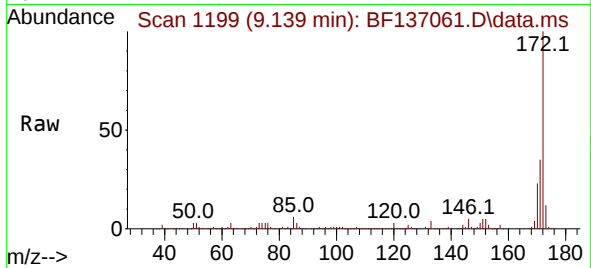




#45
2-Fluorobiphenyl
Concen: 68.979 ng
RT: 9.139 min Scan# 1199
Delta R.T. -0.012 min
Lab File: BF137061.D
Acq: 15 Jan 2024 14:13

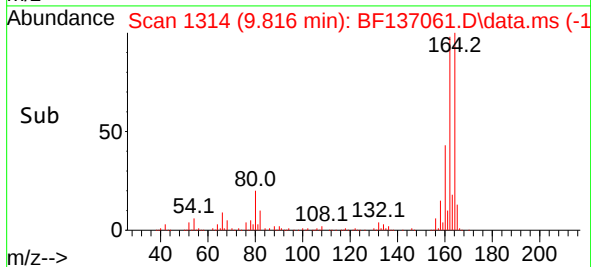
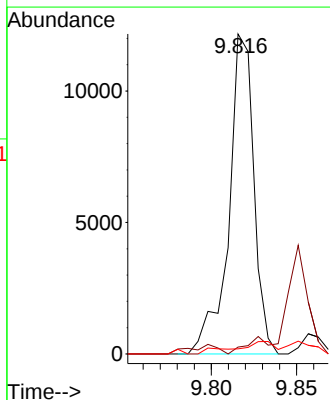
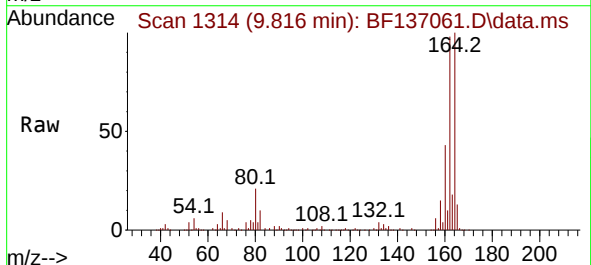
Instrument :
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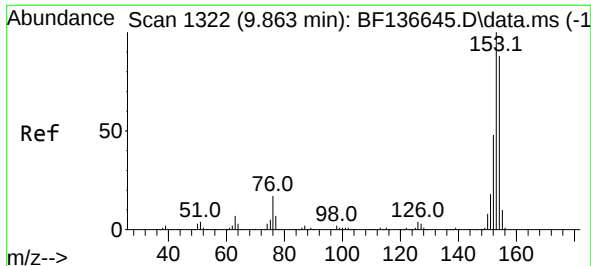
Tgt Ion:172 Resp: 440742
Ion Ratio Lower Upper
172 100
171 35.1 29.0 43.6
170 23.0 19.0 28.4



#51
2,6-Dinitrotoluene
Concen: 8.723 ng
RT: 9.816 min Scan# 1314
Delta R.T. 0.194 min
Lab File: BF137061.D
Acq: 15 Jan 2024 14:13

Tgt Ion:165 Resp: 12427
Ion Ratio Lower Upper
165 100
63 2.2 39.8 59.6#
89 1.6 38.8 58.2#

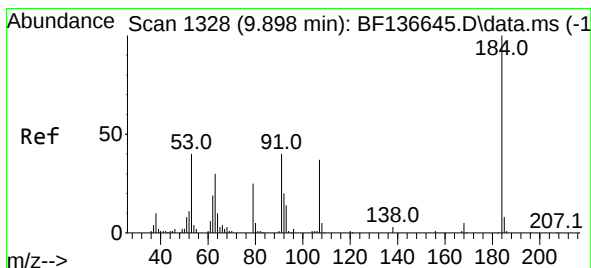
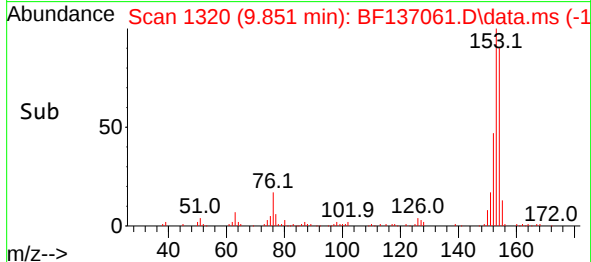
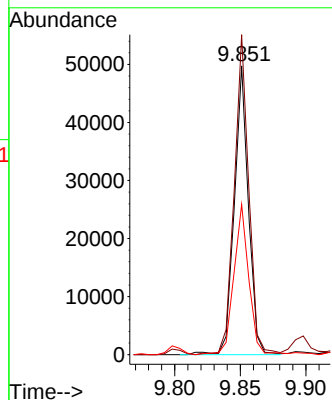
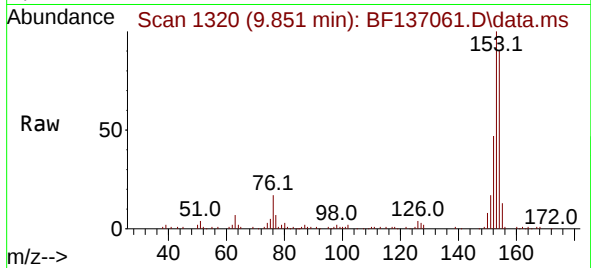




#52
Acenaphthene
Concen: 7.170 ng
RT: 9.851 min Scan# 11
Delta R.T. -0.012 min
Lab File: BF137061.D
Acq: 15 Jan 2024 14:13

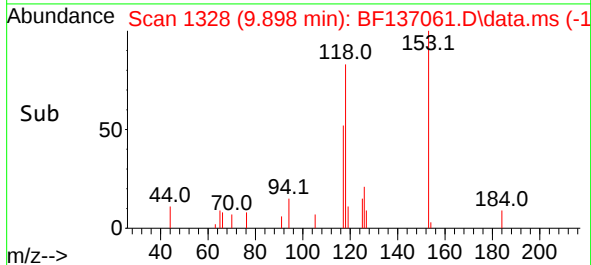
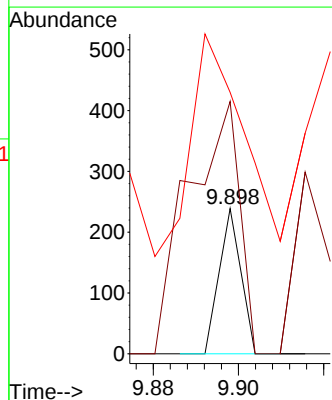
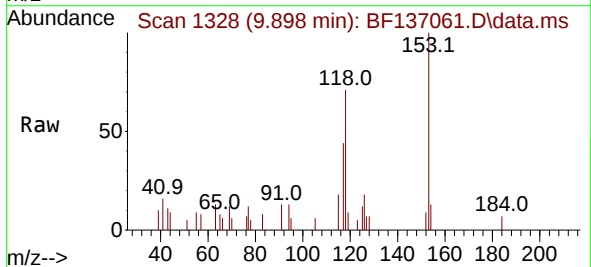
Instrument :
BNA_F
ClientSampleId :
E8965C-5-001

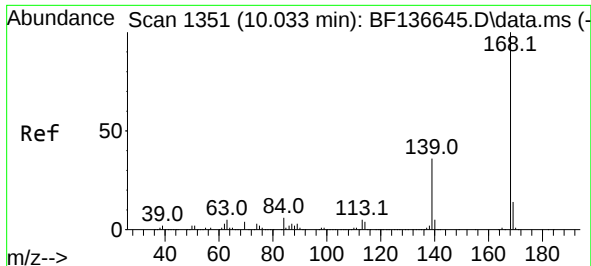
Tgt Ion:154 Resp: 37243
Ion Ratio Lower Upper
154 100
153 110.8 90.7 136.1
152 52.0 43.7 65.5



#54
2,4-Dinitrophenol
Concen: 3.836 ng
RT: 9.898 min Scan# 1328
Delta R.T. 0.000 min
Lab File: BF137061.D
Acq: 15 Jan 2024 14:13

Tgt Ion:184 Resp: 84
Ion Ratio Lower Upper
184 100
63 173.6 40.9 61.3#
154 179.9 42.7 64.1#

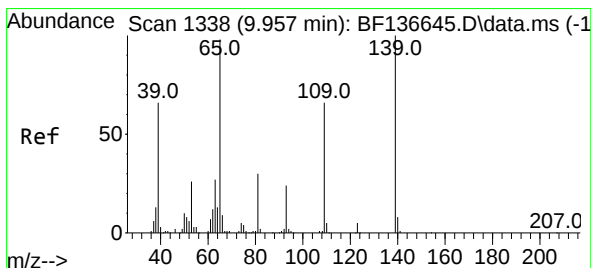
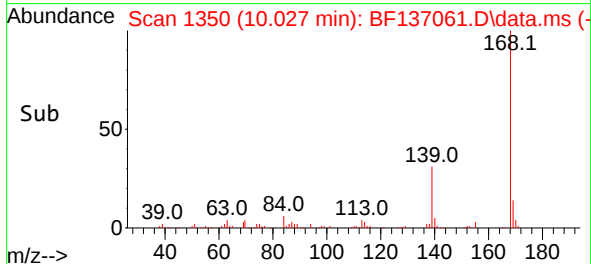
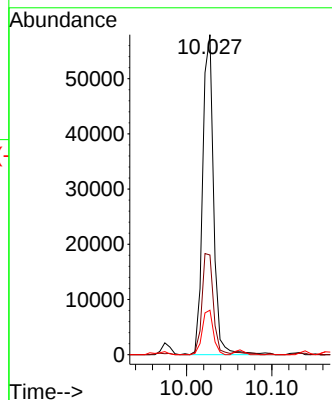
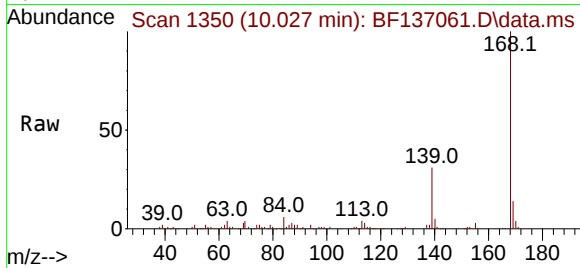




#55
Dibenzenofuran
Concen: 6.568 ng
RT: 10.027 min Scan# 1350
Delta R.T. -0.006 min
Lab File: BF137061.D
Acq: 15 Jan 2024 14:13

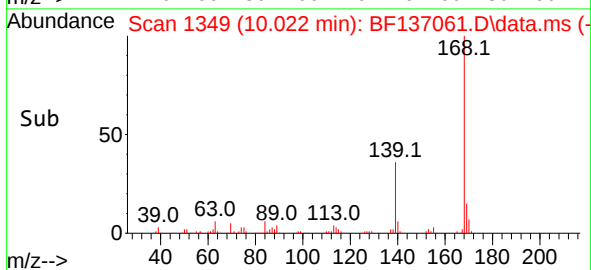
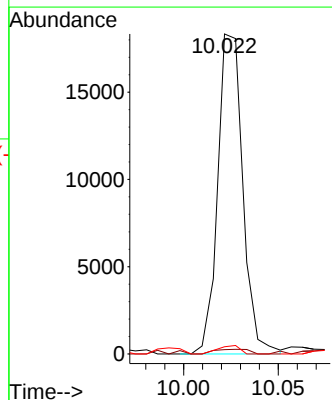
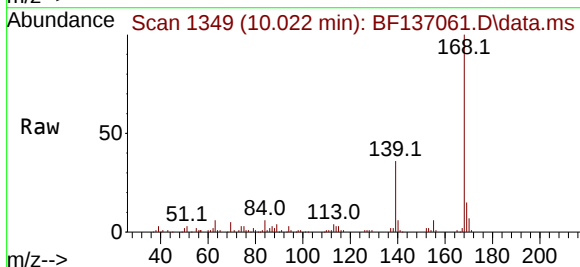
Instrument :
BNA_F
ClientSampleId :
E8965C-5-001

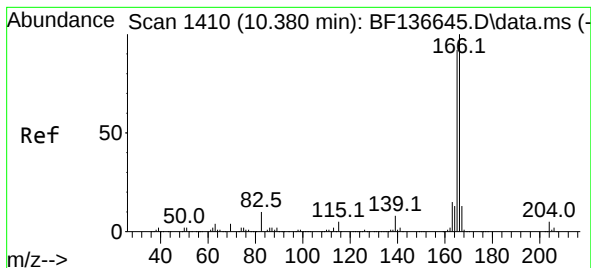
Tgt Ion:168 Resp: 51719
Ion Ratio Lower Upper
168 100
139 31.2 29.3 43.9
169 13.9 11.0 16.4



#56
4-Nitrophenol
Concen: 16.614 ng
RT: 10.022 min Scan# 1349
Delta R.T. 0.065 min
Lab File: BF137061.D
Acq: 15 Jan 2024 14:13

Tgt Ion:139 Resp: 16925
Ion Ratio Lower Upper
139 100
109 1.3 45.8 85.8#
65 2.2 77.8 117.8#





#58

Fluorene

Concen: 7.272 ng

RT: 10.369 min Scan# 1410

Delta R.T. -0.012 min

Lab File: BF137061.D

Acq: 15 Jan 2024 14:13

Instrument :

BNA_F

ClientSampleId :

E8965C-5-001

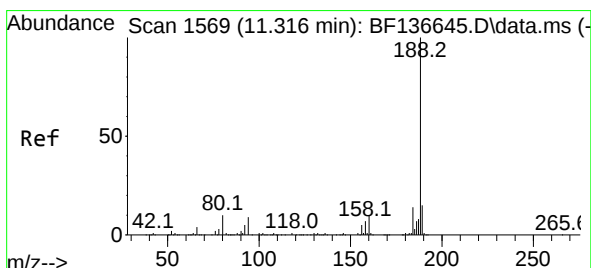
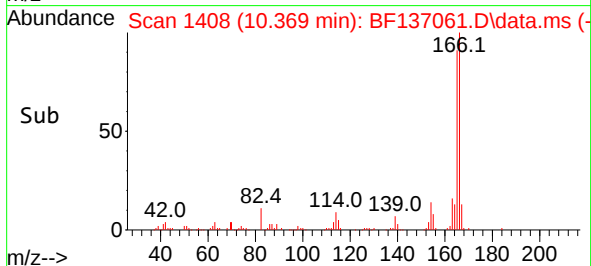
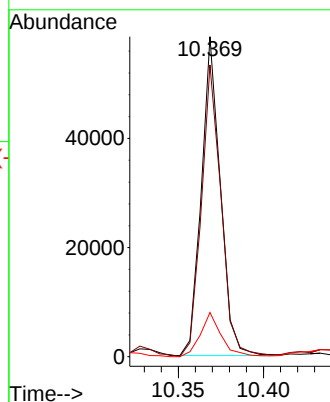
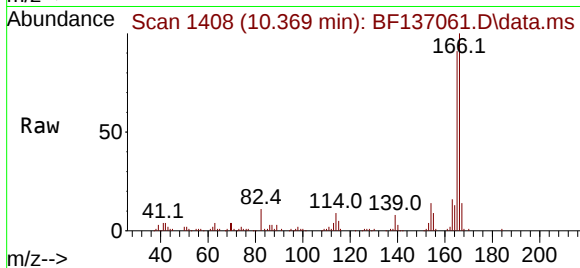
Tgt Ion:166 Resp: 45436

Ion Ratio Lower Upper

166 100

165 91.1 73.7 110.5

167 13.8 10.4 15.6



#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.316 min Scan# 1569

Delta R.T. 0.000 min

Lab File: BF137061.D

Acq: 15 Jan 2024 14:13

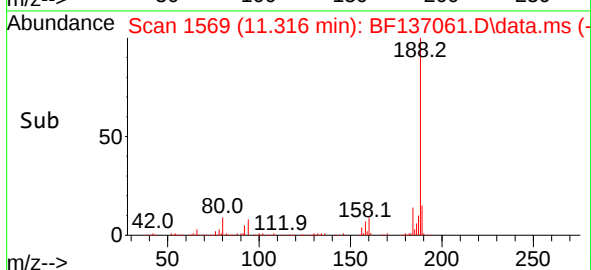
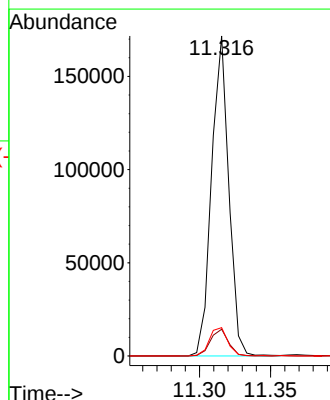
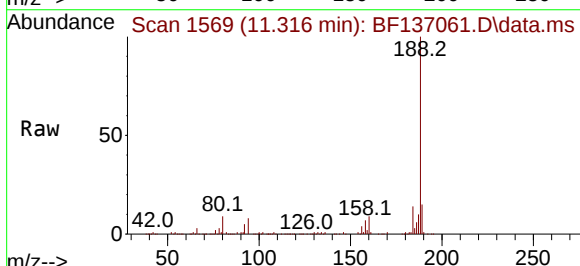
Tgt Ion:188 Resp: 144281

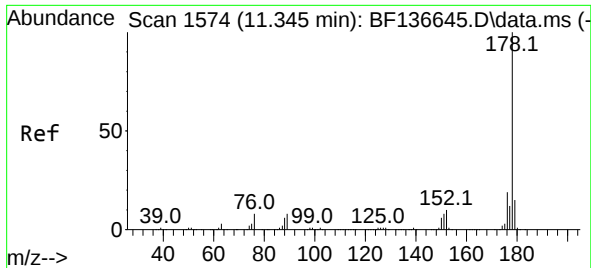
Ion Ratio Lower Upper

188 100

94 8.4 7.5 11.3

80 8.9 8.1 12.1

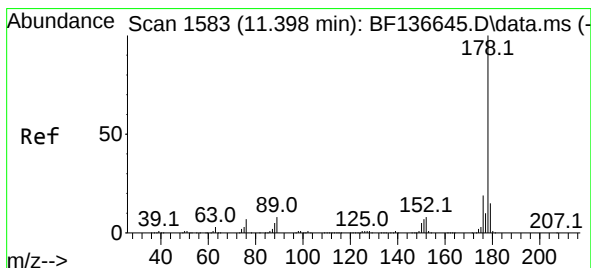
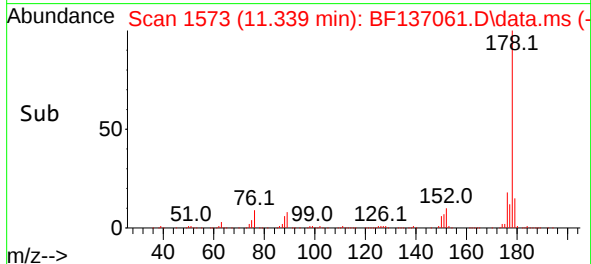
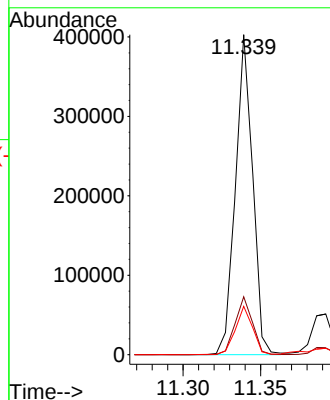
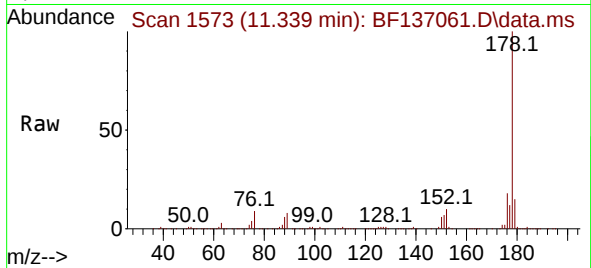




#71
Phenanthrene
Concen: 41.945 ng
RT: 11.339 min Scan# 1573
Delta R.T. -0.006 min
Lab File: BF137061.D
Acq: 15 Jan 2024 14:13

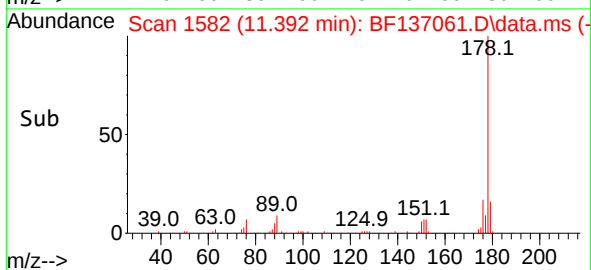
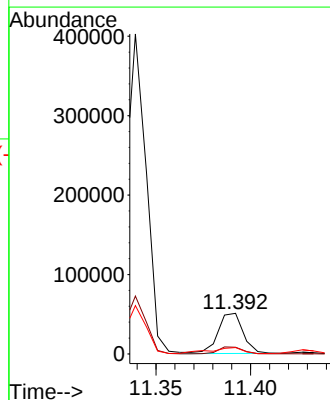
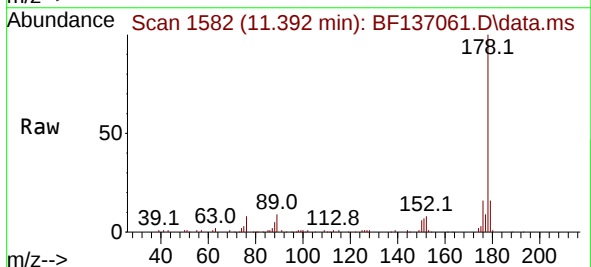
Instrument :
BNA_F
ClientSampleId :
E8965C-5-001

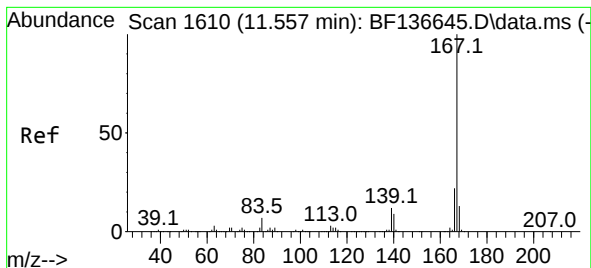
Tgt Ion:178 Resp: 310527
Ion Ratio Lower Upper
178 100
176 18.1 15.3 22.9
179 15.1 11.9 17.9



#72
Anthracene
Concen: 6.295 ng
RT: 11.392 min Scan# 1582
Delta R.T. -0.006 min
Lab File: BF137061.D
Acq: 15 Jan 2024 14:13

Tgt Ion:178 Resp: 47199
Ion Ratio Lower Upper
178 100
176 16.4 14.9 22.3
179 15.9 11.8 17.6





#73

Carbazole

Concen: 4.108 ng

RT: 11.551 min Scan# 1

Delta R.T. -0.006 min

Lab File: BF137061.D

Acq: 15 Jan 2024 14:13

Instrument :

BNA_F

ClientSampleId :

E8965C-5-001

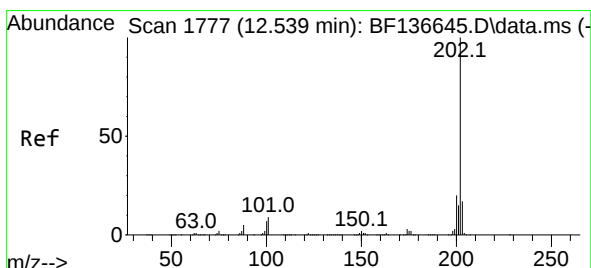
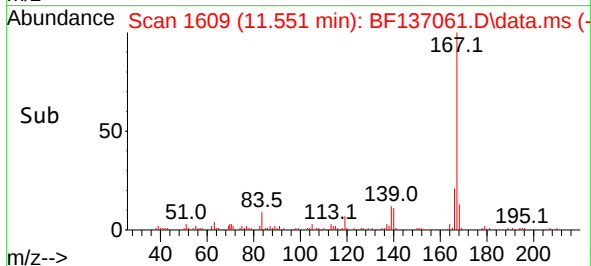
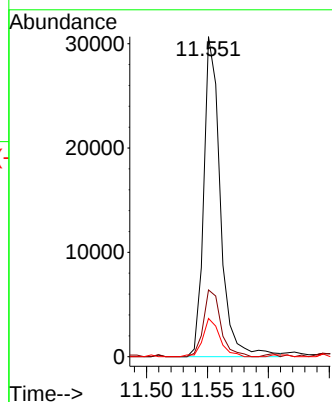
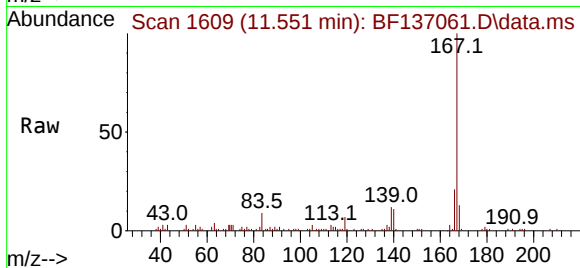
Tgt Ion:167 Resp: 29041

Ion Ratio Lower Upper

167 100

166 20.8 17.3 25.9

139 11.9 9.8 14.6



#75

Fluoranthene

Concen: 31.656 ng

RT: 12.539 min Scan# 1777

Delta R.T. 0.000 min

Lab File: BF137061.D

Acq: 15 Jan 2024 14:13

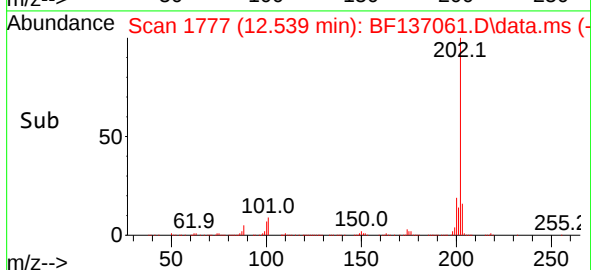
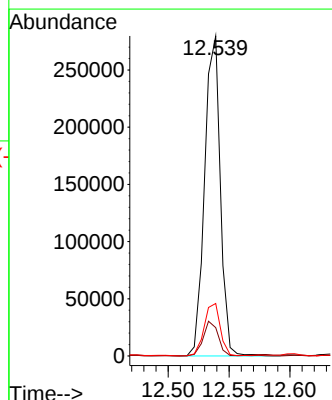
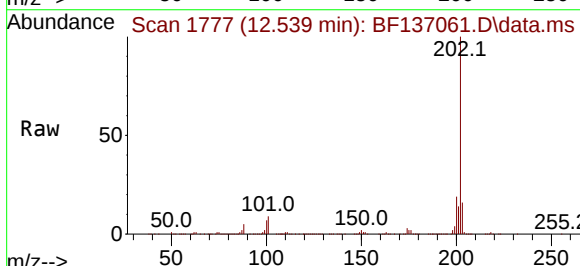
Tgt Ion:202 Resp: 250677

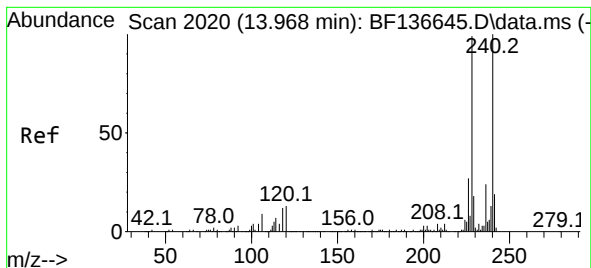
Ion Ratio Lower Upper

202 100

101 8.8 0.0 29.3

203 16.4 0.0 37.1





#76

Chrysene-d12

Concen: 20.000 ng

RT: 13.974 min Scan# 20

Delta R.T. 0.006 min

Lab File: BF137061.D

Acq: 15 Jan 2024 14:13

Instrument :

BNA_F

ClientSampleId :

E8965C-5-001

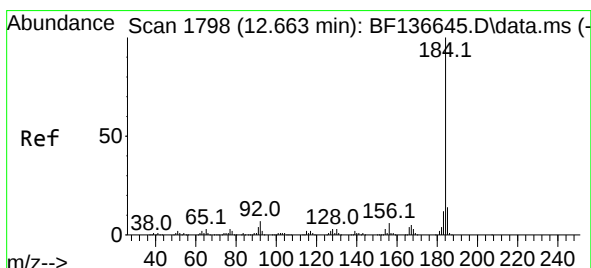
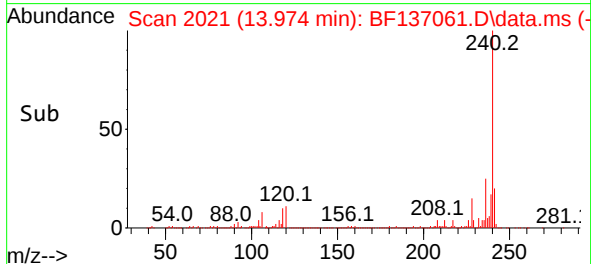
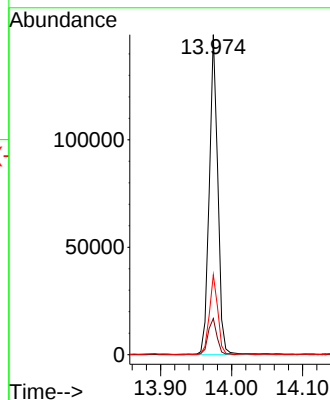
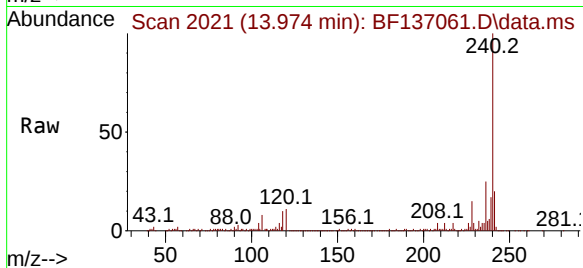
Tgt Ion:240 Resp: 125033

Ion Ratio Lower Upper

240 100

120 11.3 10.3 15.5

236 24.9 19.4 29.2



#77

Benzidine

Concen: 3.015 ng

RT: 12.668 min Scan# 1799

Delta R.T. 0.006 min

Lab File: BF137061.D

Acq: 15 Jan 2024 14:13

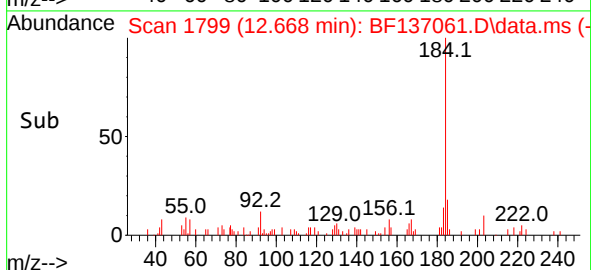
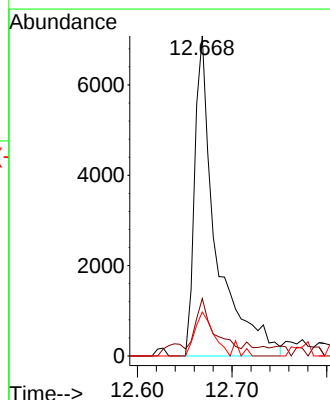
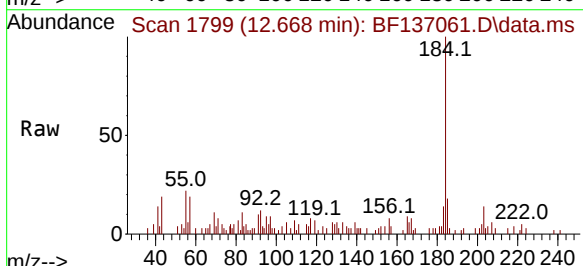
Tgt Ion:184 Resp: 11116

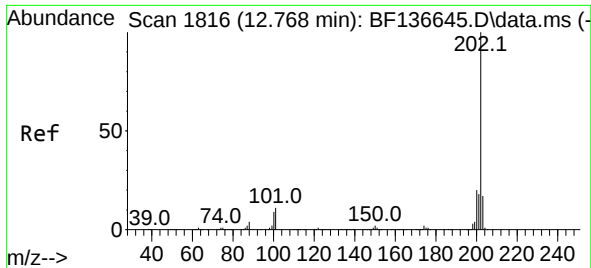
Ion Ratio Lower Upper

184 100

185 17.9 11.2 16.8#

183 13.7 9.3 13.9

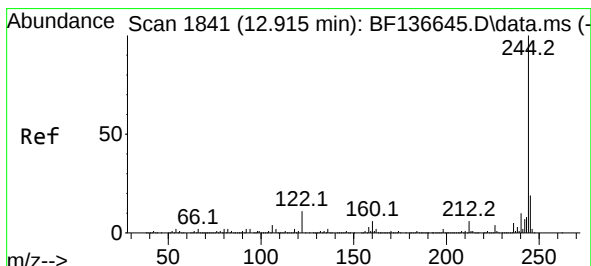
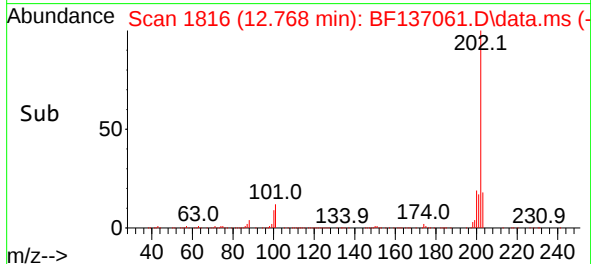
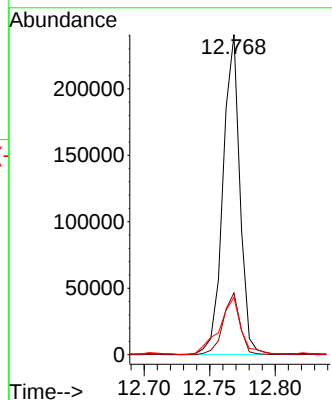
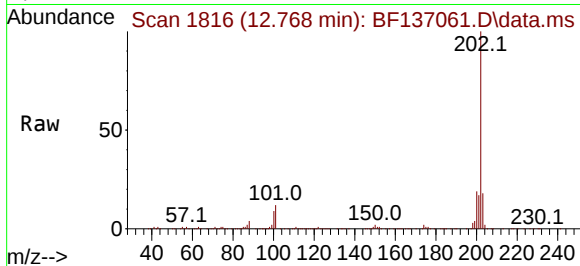




#78
Pyrene
Concen: 17.536 ng
RT: 12.768 min Scan# 1816
Delta R.T. 0.000 min
Lab File: BF137061.D
Acq: 15 Jan 2024 14:13

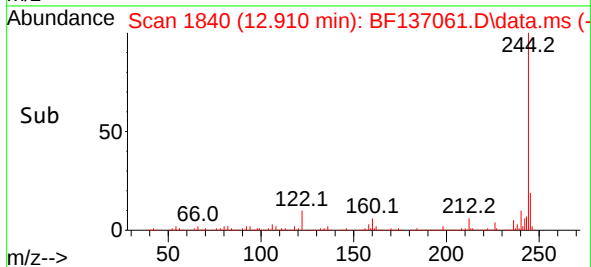
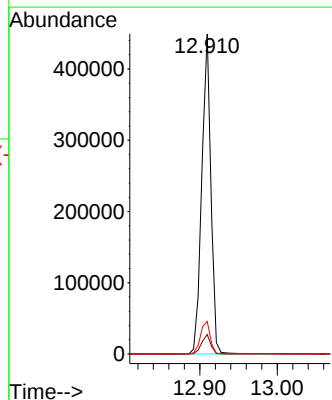
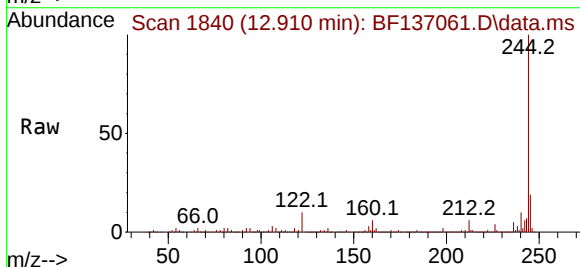
Instrument :
BNA_F
ClientSampleId :
E8965C-5-001

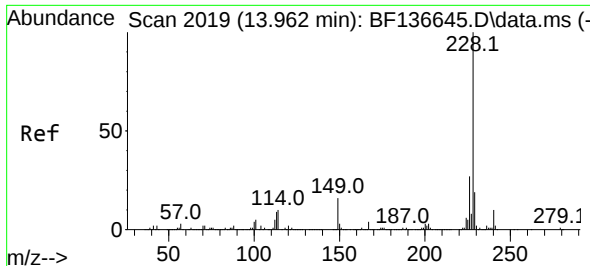
Tgt Ion:202 Resp: 215238
Ion Ratio Lower Upper
202 100
200 19.3 15.9 23.9
203 17.9 13.8 20.6



#79
Terphenyl-d14
Concen: 41.001 ng
RT: 12.910 min Scan# 1840
Delta R.T. -0.006 min
Lab File: BF137061.D
Acq: 15 Jan 2024 14:13

Tgt Ion:244 Resp: 366840
Ion Ratio Lower Upper
244 100
212 6.1 5.0 7.4
122 10.2 9.0 13.4

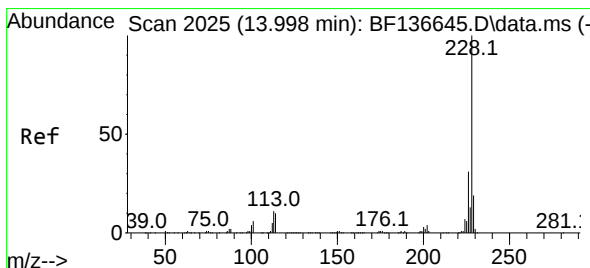
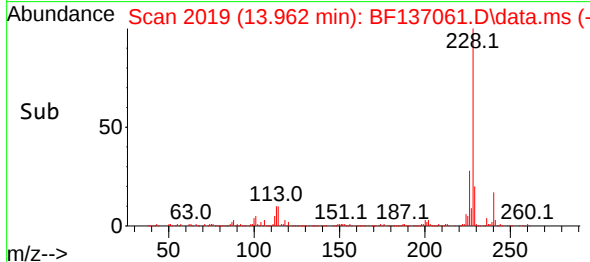
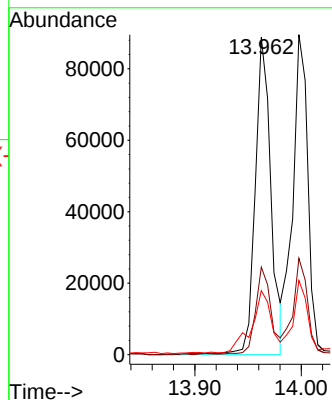
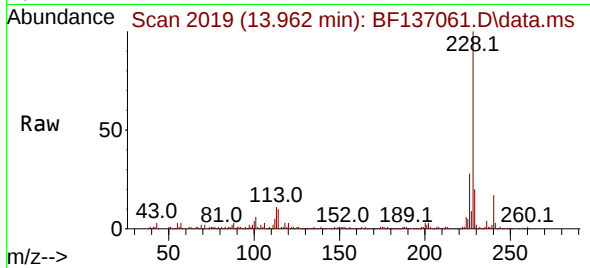




#81
Benzo(a)anthracene
Concen: 10.484 ng
RT: 13.962 min Scan# 2019
Delta R.T. 0.000 min
Lab File: BF137061.D
Acq: 15 Jan 2024 14:13

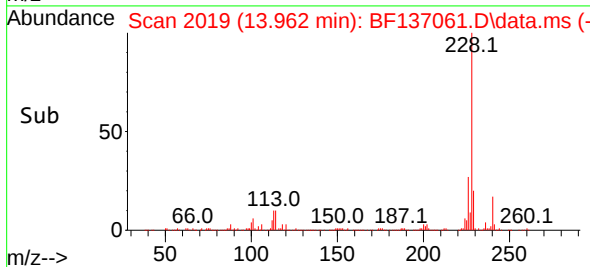
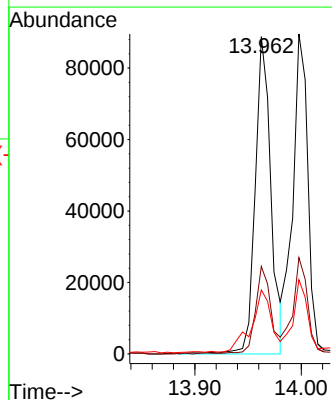
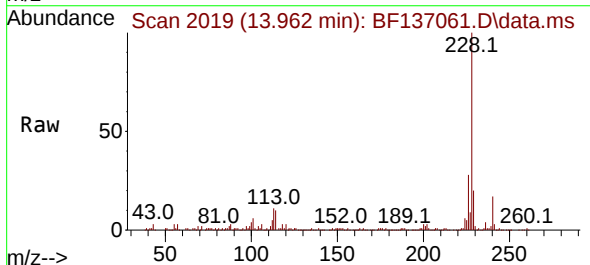
Instrument :
BNA_F
ClientSampleId :
E8965C-5-001

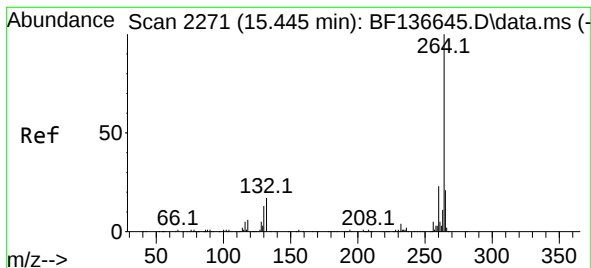
Tgt Ion:228 Resp: 91025
Ion Ratio Lower Upper
228 100
226 27.6 21.4 32.0
229 20.2 14.9 22.3



#83
Chrysene
Concen: 10.721 ng
RT: 13.962 min Scan# 2019
Delta R.T. -0.035 min
Lab File: BF137061.D
Acq: 15 Jan 2024 14:13

Tgt Ion:228 Resp: 91025
Ion Ratio Lower Upper
228 100
226 27.6 24.7 37.1
229 20.2 15.4 23.0





#86

Perylene-d12

Concen: 20.000 ng

RT: 15.468 min Scan# 21

Delta R.T. 0.024 min

Lab File: BF137061.D

Acq: 15 Jan 2024 14:13

Instrument :

BNA_F

ClientSampleId :

E8965C-5-001

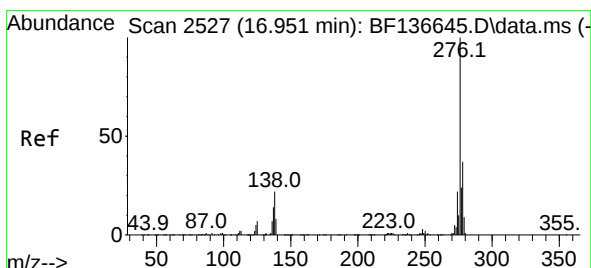
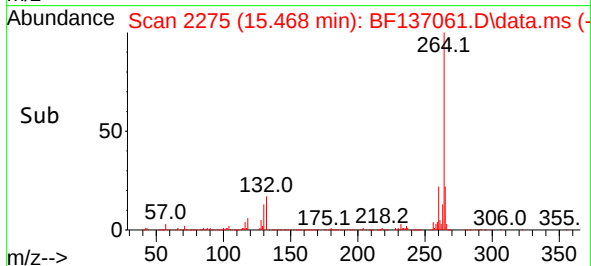
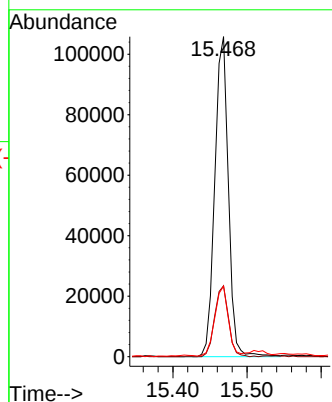
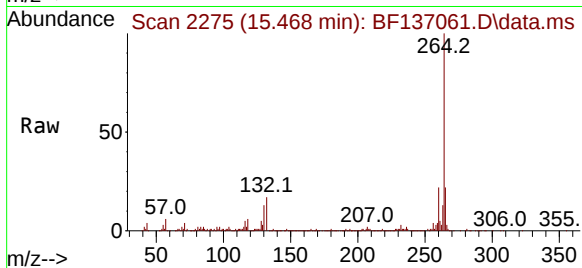
Tgt Ion:264 Resp: 134636

Ion Ratio Lower Upper

264 100

260 22.1 18.3 27.5

265 22.1 17.0 25.6



#87

Indeno(1,2,3-cd)pyrene

Concen: 3.864 ng

RT: 16.992 min Scan# 2534

Delta R.T. 0.041 min

Lab File: BF137061.D

Acq: 15 Jan 2024 14:13

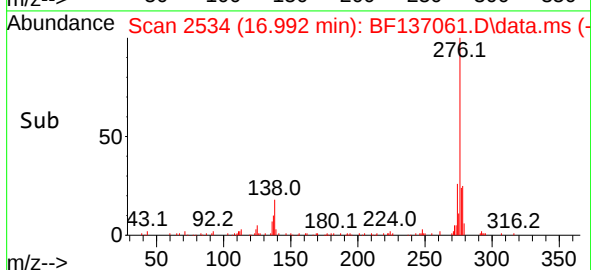
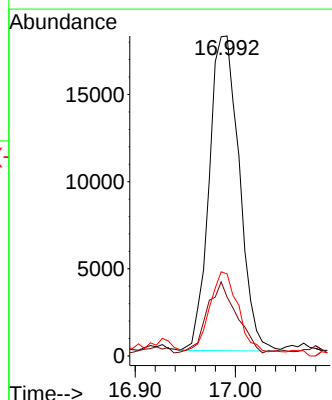
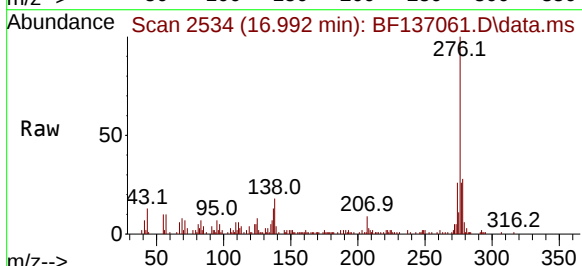
Tgt Ion:276 Resp: 37559

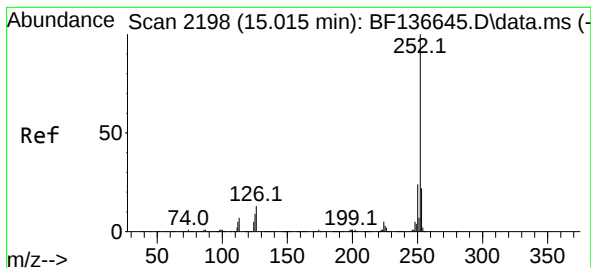
Ion Ratio Lower Upper

276 100

138 22.1 18.7 28.1

277 23.8 20.2 30.2





#88

Benzo(b)fluoranthene

Concen: 15.575 ng

RT: 15.027 min Scan# 21

Delta R.T. 0.012 min

Lab File: BF137061.D

Acq: 15 Jan 2024 14:13

Instrument :

BNA_F

ClientSampleId :

E8965C-5-001

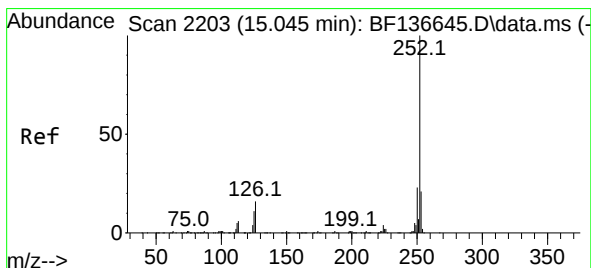
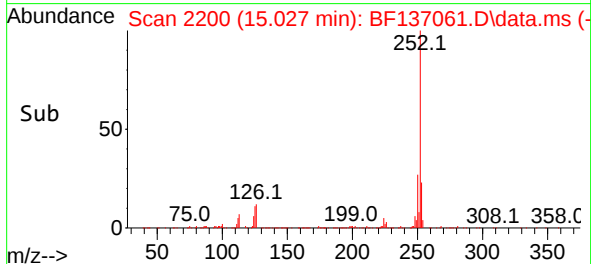
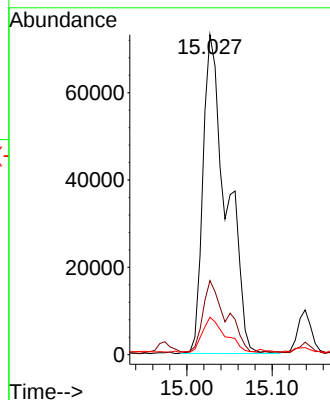
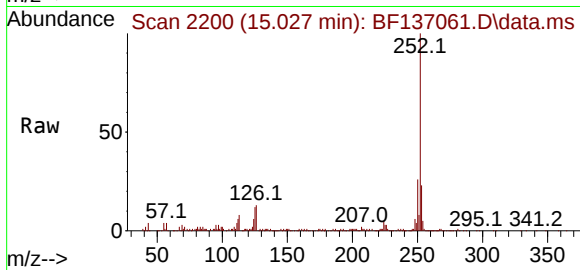
Tgt Ion:252 Resp: 140056

Ion Ratio Lower Upper

252 100

253 23.1 17.4 26.0

125 11.7 7.4 11.2#



#89

Benzo(k)fluoranthene

Concen: 16.515 ng

RT: 15.027 min Scan# 2200

Delta R.T. -0.018 min

Lab File: BF137061.D

Acq: 15 Jan 2024 14:13

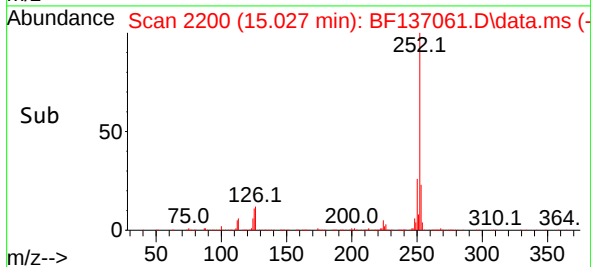
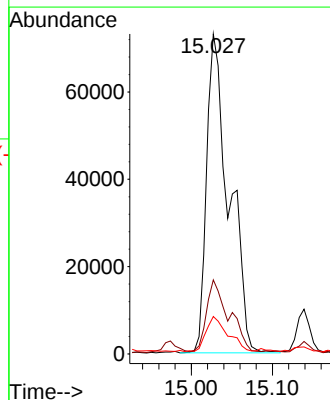
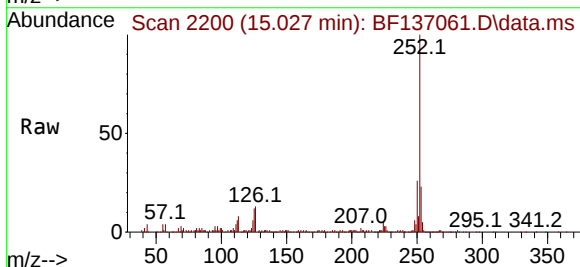
Tgt Ion:252 Resp: 140325

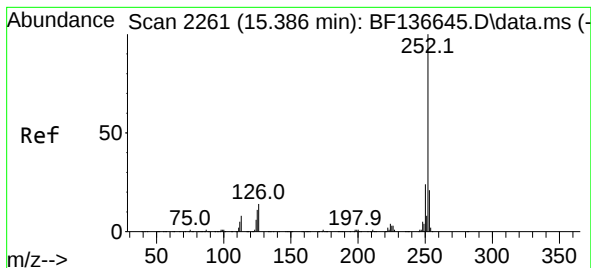
Ion Ratio Lower Upper

252 100

253 23.1 17.0 25.6

125 11.7 8.2 12.4





#90

Benzo(a)pyrene

Concen: 9.051 ng

RT: 15.404 min Scan# 21

Delta R.T. 0.018 min

Lab File: BF137061.D

Acq: 15 Jan 2024 14:13

Instrument :

BNA_F

ClientSampleId :

E8965C-5-001

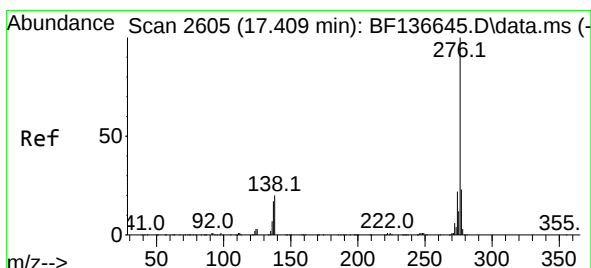
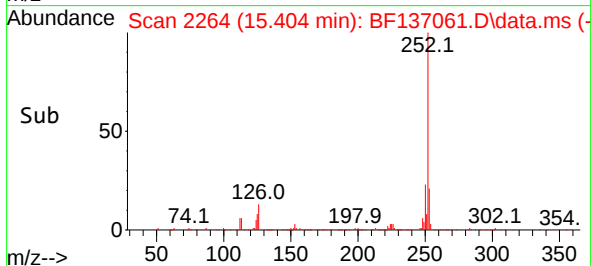
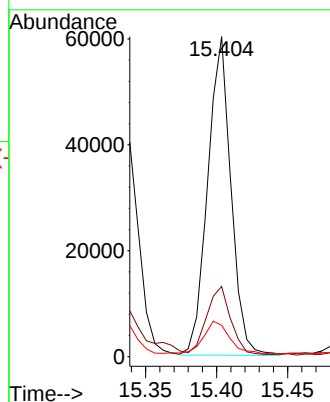
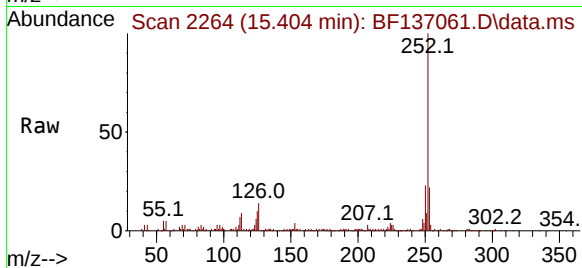
Tgt Ion:252 Resp: 68706

Ion Ratio Lower Upper

252 100

253 22.0 17.0 25.6

125 9.8 8.8 13.2



#92

Benzo(g,h,i)perylene

Concen: 4.481 ng

RT: 17.450 min Scan# 2612

Delta R.T. 0.041 min

Lab File: BF137061.D

Acq: 15 Jan 2024 14:13

Tgt Ion:276 Resp: 36598

Ion Ratio Lower Upper

276 100

277 20.9 18.3 27.5

138 22.3 15.6 23.4

