

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF011024\
 Data File : BF137029.D
 Acq On : 10 Jan 2024 20:02
 Operator : CG\JU
 Sample : P1070-01
 Misc :
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 HD-01-010824

Quant Time: Jan 11 00:03:00 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)

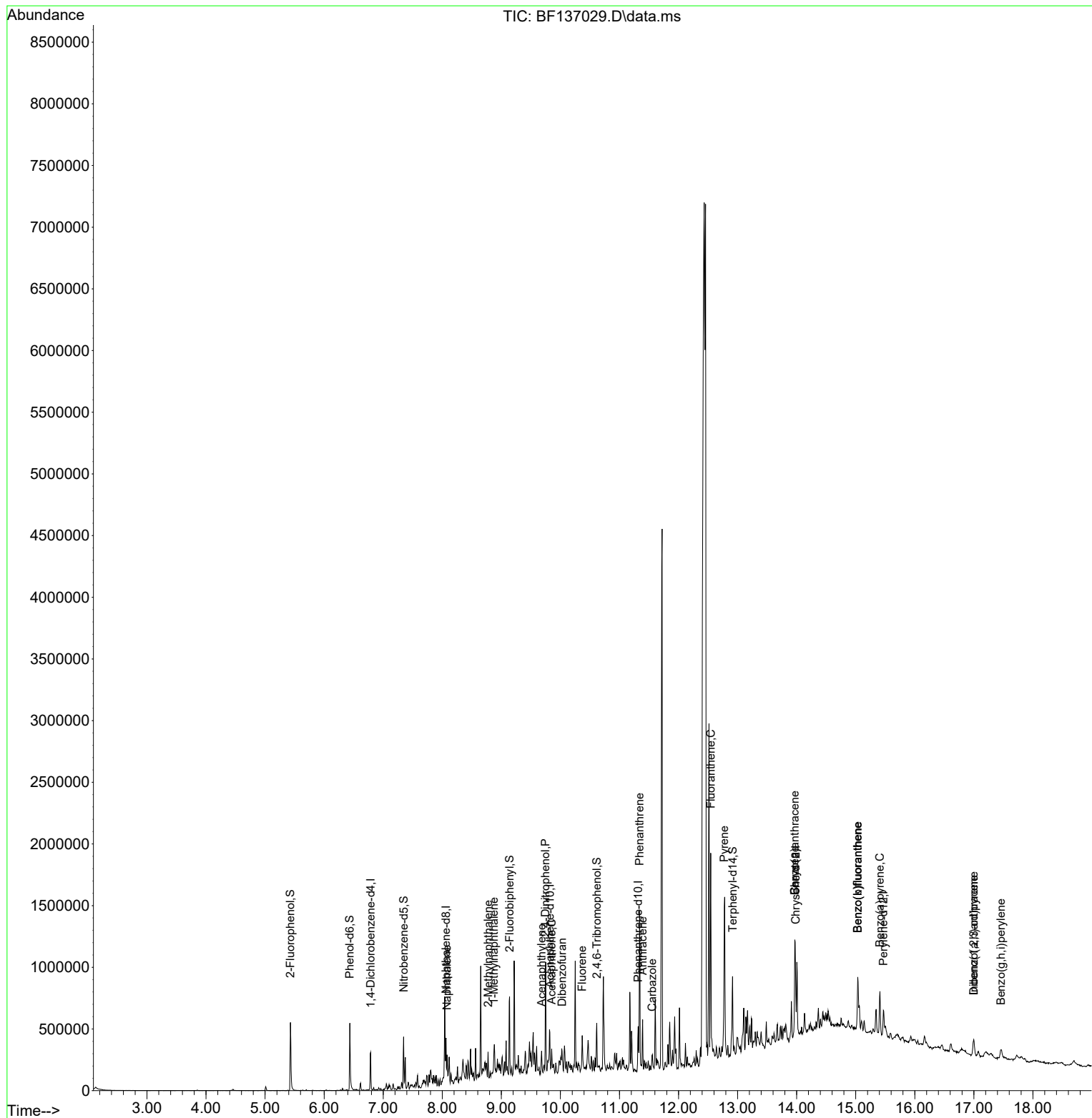
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.787	152	46642	20.000	ng	0.00
21) Naphthalene-d8	8.063	136	156644	20.000	ng	0.00
39) Acenaphthene-d10	9.822	164	66728	20.000	ng	0.00
64) Phenanthrene-d10	11.316	188	124983	20.000	ng	0.00
76) Chrysene-d12	13.980	240	114341	20.000	ng	0.01
86) Perylene-d12	15.468	264	93608	20.000	ng	0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.428	112	159843	53.471	ng	0.00
7) Phenol-d6	6.434	99	187580	48.427	ng	0.00
23) Nitrobenzene-d5	7.345	82	113367	37.034	ng	-0.01
42) 2,4,6-Tribromophenol	10.616	330	45064	57.343	ng	0.00
45) 2-Fluorobiphenyl	9.139	172	199983	40.309	ng	-0.01
79) Terphenyl-d14	12.916	244	205330	25.095	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	8.081	128	68083	7.911	ng	96
37) 2-Methylnaphthalene	8.775	142	45880	8.284	ng	100
38) 1-Methylnaphthalene	8.875	142	43116	7.935	ng	95
49) Acenaphthylene	9.681	152	48935	7.521	ng	96
52) Acenaphthene	9.851	154	27234	6.752	ng	96
54) 2,4-Dinitrophenol	9.745	184	126	3.931	ng	# 1
55) Dibenzofuran	10.028	168	48791	7.980	ng	# 94
58) Fluorene	10.369	166	70179	14.467	ng	98
71) Phenanthrene	11.339	178	482424	75.226	ng	98
72) Anthracene	11.392	178	140181	21.584	ng	98
73) Carbazole	11.551	167	28689	4.685	ng	97
75) Fluoranthene	12.545	202	645338	94.077	ng	98
78) Pyrene	12.774	202	559277	49.827	ng	99
81) Benzo(a)anthracene	13.969	228	316159	39.820	ng	96
83) Chrysene	13.969	228	316159	40.720	ng	97
87) Indeno(1,2,3-cd)pyrene	16.998	276	78463	11.609	ng	96
88) Benzo(b)fluoranthene	15.033	252	332372	53.161	ng	# 95
89) Benzo(k)fluoranthene	15.033	252	332372	56.261	ng	# 95
90) Benzo(a)pyrene	15.410	252	167412	31.722	ng	98
91) Dibenzo(a,h)anthracene	16.998	278	23676	4.270	ng	# 77
92) Benzo(g,h,i)perylene	17.457	276	70045	12.334	ng	# 93

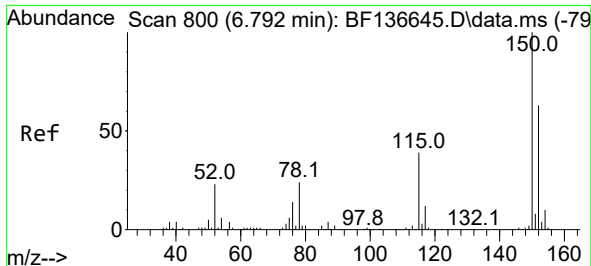
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Jan 11 00:03:00 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

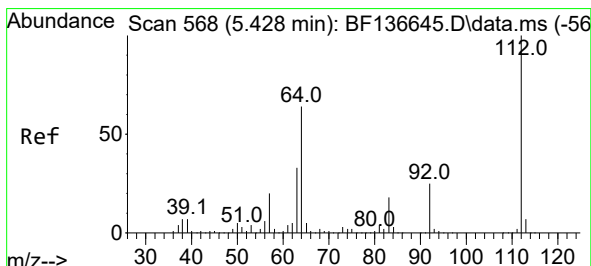
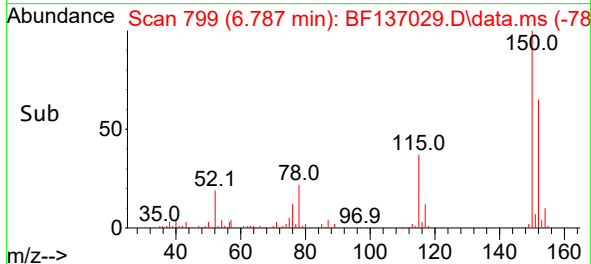
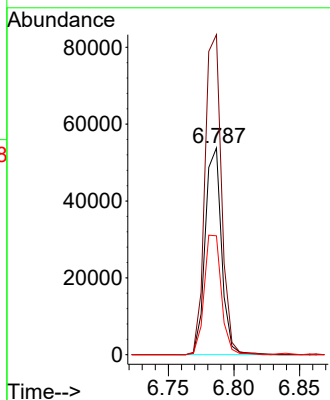
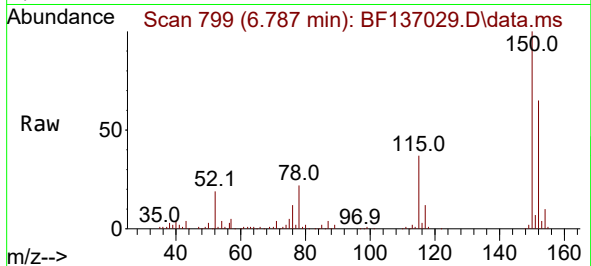




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.787 min Scan# 799
Delta R.T. -0.005 min
Lab File: BF137029.D
Acq: 10 Jan 2024 20:02

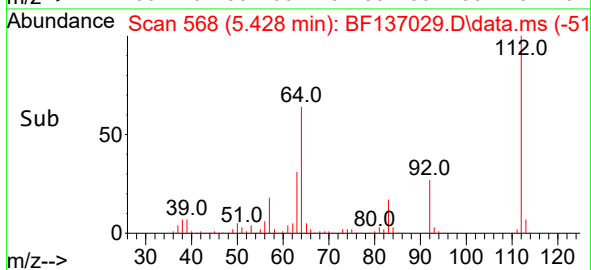
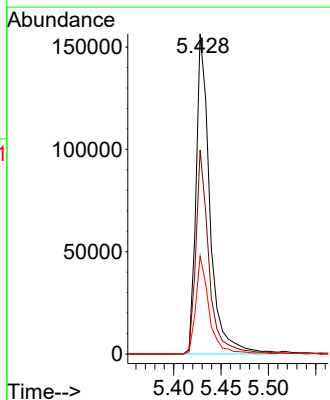
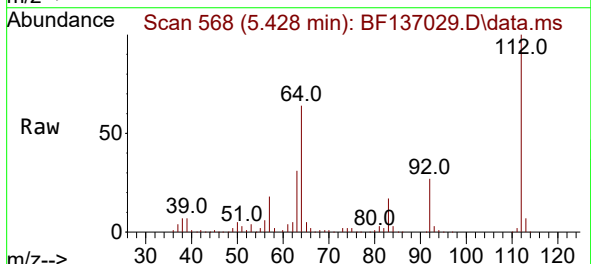
Instrument :
BNA_F
ClientSampleId :
HD-01-010824

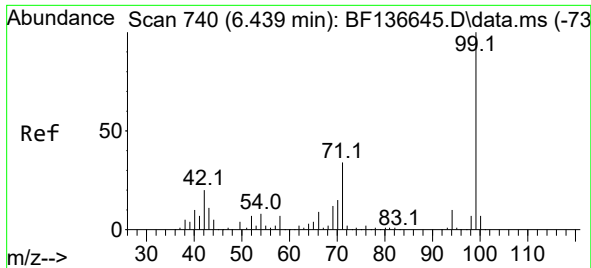
Tgt Ion:152 Resp: 46642
Ion Ratio Lower Upper
152 100
150 154.8 127.0 190.6
115 57.5 49.0 73.4



#5
2-Fluorophenol
Concen: 53.471 ng
RT: 5.428 min Scan# 568
Delta R.T. 0.000 min
Lab File: BF137029.D
Acq: 10 Jan 2024 20:02

Tgt Ion:112 Resp: 159843
Ion Ratio Lower Upper
112 100
64 63.7 51.1 76.7
63 30.6 26.1 39.1

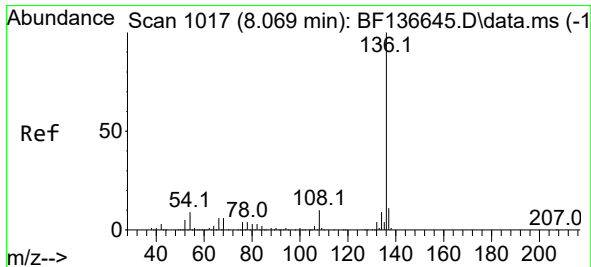
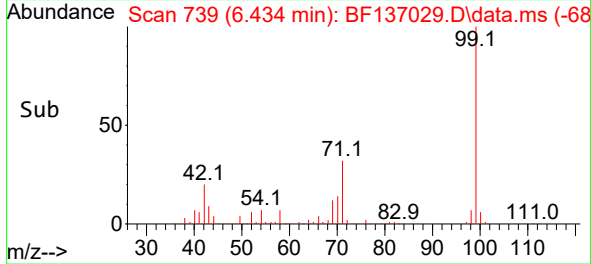
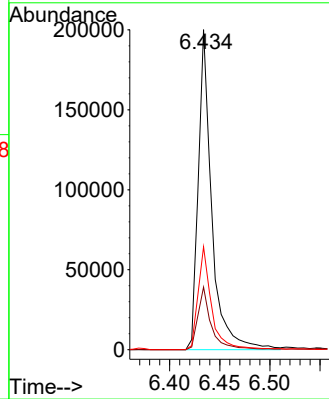
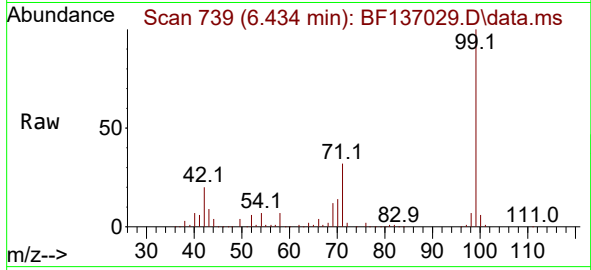




#7
Phenol-d6
Concen: 48.427 ng
RT: 6.434 min Scan# 71
Delta R.T. -0.006 min
Lab File: BF137029.D
Acq: 10 Jan 2024 20:02

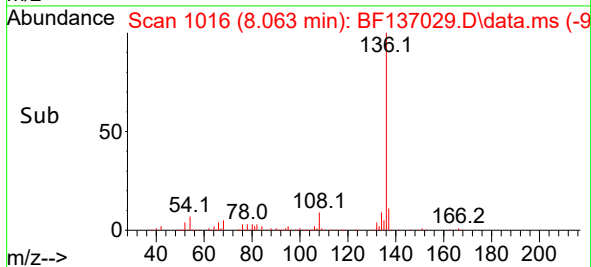
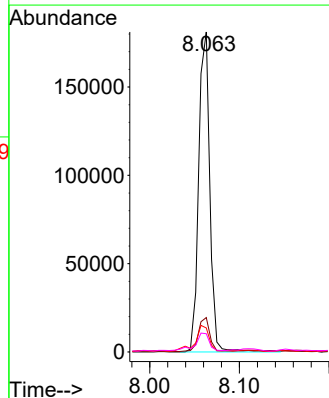
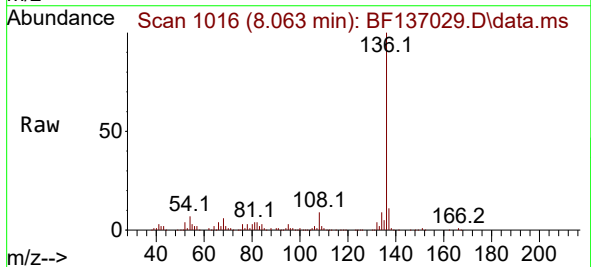
Instrument :
BNA_F
ClientSampleId :
HD-01-010824

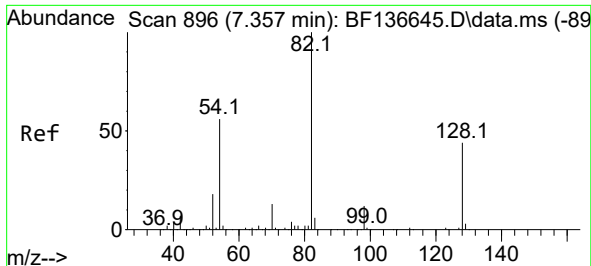
Tgt Ion: 99 Resp: 187580
Ion Ratio Lower Upper
99 100
42 19.6 16.1 24.1
71 32.1 27.4 41.2



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.063 min Scan# 1016
Delta R.T. -0.006 min
Lab File: BF137029.D
Acq: 10 Jan 2024 20:02

Tgt Ion:136 Resp: 156644
Ion Ratio Lower Upper
136 100
137 10.8 9.0 13.4
54 7.5 7.2 10.8
68 5.7 4.9 7.3

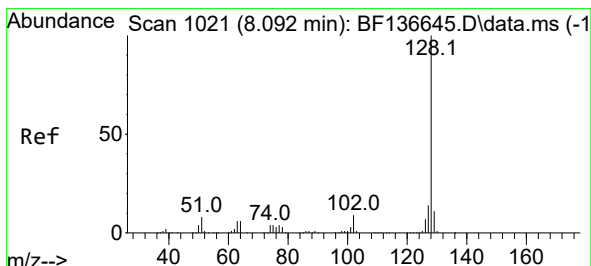
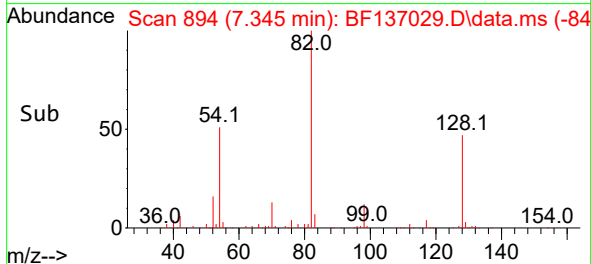
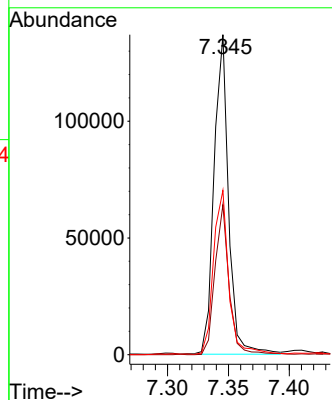
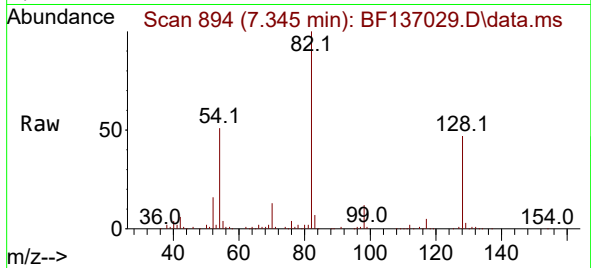




#23
Nitrobenzene-d5
Concen: 37.034 ng
RT: 7.345 min Scan# 896
Delta R.T. -0.012 min
Lab File: BF137029.D
Acq: 10 Jan 2024 20:02

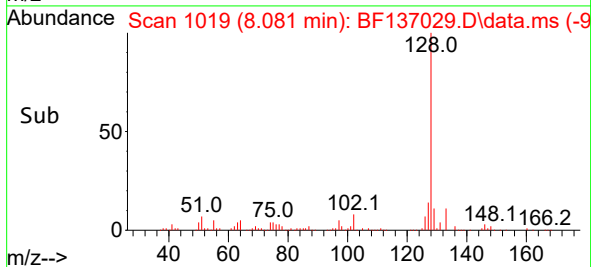
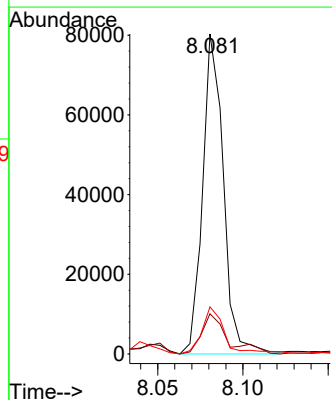
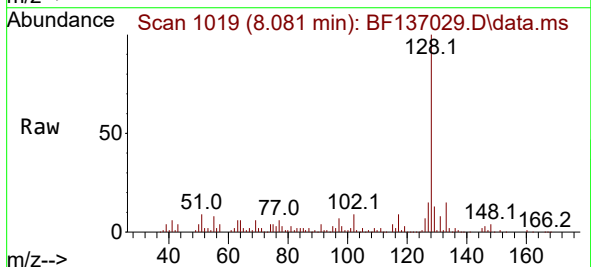
Instrument :
BNA_F
ClientSampleId :
HD-01-010824

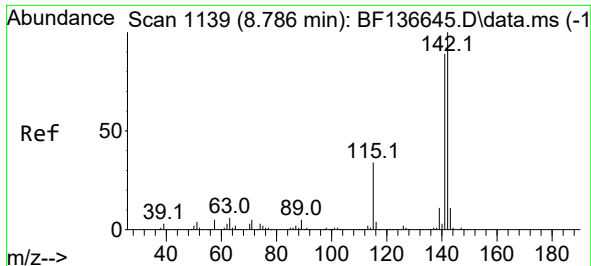
Tgt Ion: 82 Resp: 113367
Ion Ratio Lower Upper
82 100
128 46.9 35.3 52.9
54 51.3 44.5 66.7



#31
Naphthalene
Concen: 7.911 ng
RT: 8.081 min Scan# 1019
Delta R.T. -0.012 min
Lab File: BF137029.D
Acq: 10 Jan 2024 20:02

Tgt Ion: 128 Resp: 68083
Ion Ratio Lower Upper
128 100
129 12.5 8.7 13.1
127 14.7 10.8 16.2

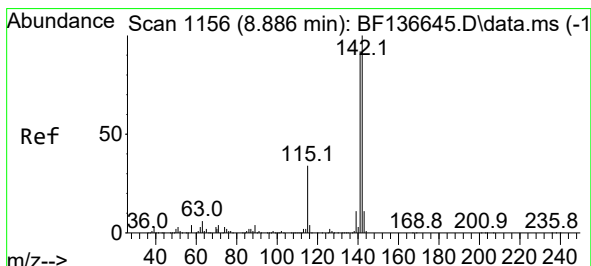
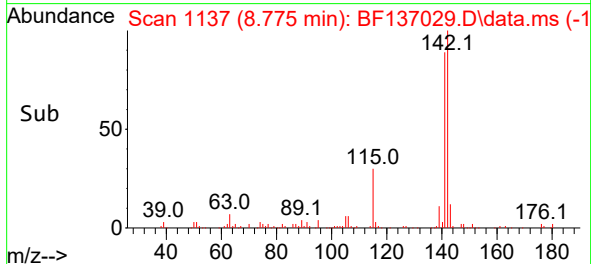
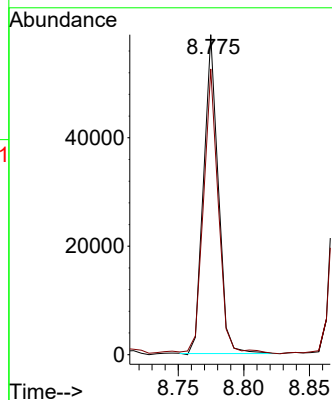
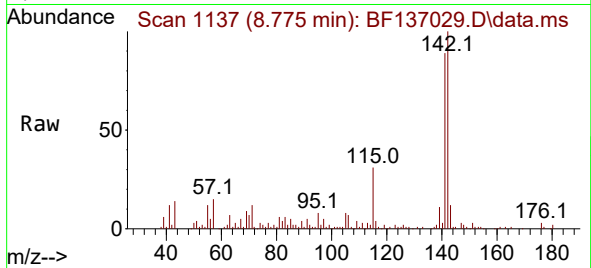




#37
2-Methylnaphthalene
Concen: 8.284 ng
RT: 8.775 min Scan# 1137
Delta R.T. -0.012 min
Lab File: BF137029.D
Acq: 10 Jan 2024 20:02

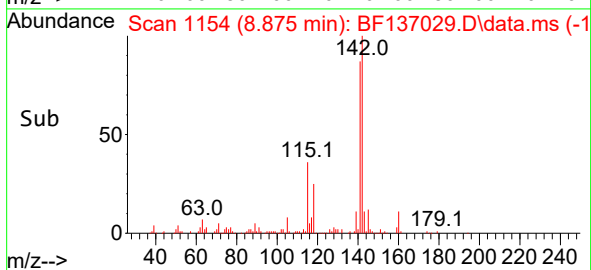
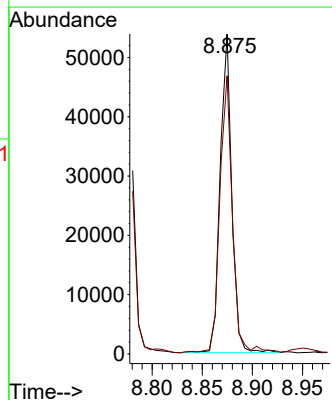
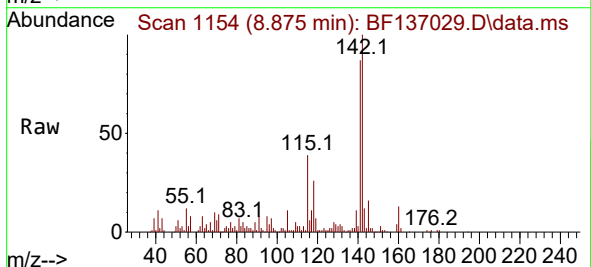
Instrument :
BNA_F
ClientSampleId :
HD-01-010824

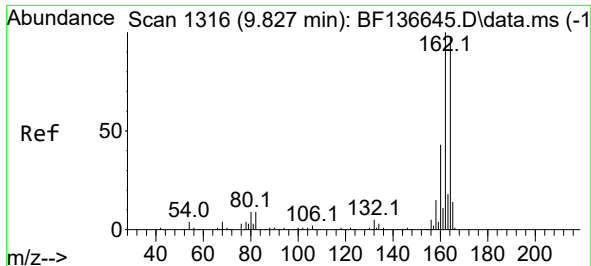
Tgt Ion:142 Resp: 45880
Ion Ratio Lower Upper
142 100
141 89.3 71.1 106.7



#38
1-Methylnaphthalene
Concen: 7.935 ng
RT: 8.875 min Scan# 1154
Delta R.T. -0.012 min
Lab File: BF137029.D
Acq: 10 Jan 2024 20:02

Tgt Ion:142 Resp: 43116
Ion Ratio Lower Upper
142 100
141 86.9 73.6 110.4





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.822 min Scan# 11

Delta R.T. -0.006 min

Lab File: BF137029.D

Acq: 10 Jan 2024 20:02

Instrument :

BNA_F

ClientSampleId :

HD-01-010824

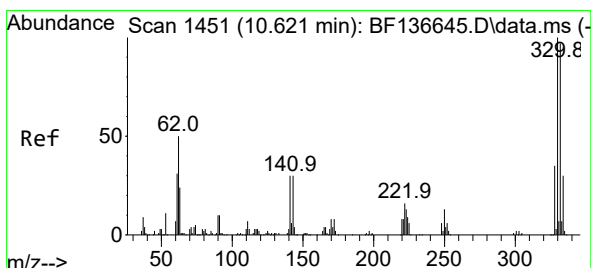
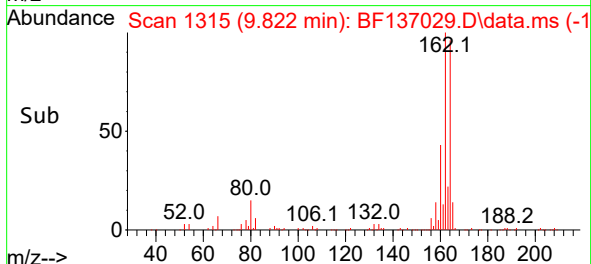
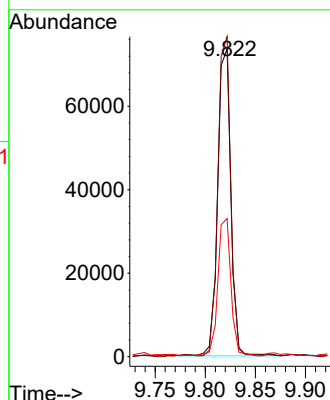
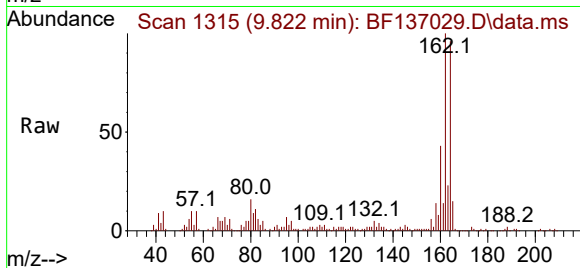
Tgt Ion:164 Resp: 66728

Ion Ratio Lower Upper

164 100

162 103.9 81.6 122.4

160 44.9 34.9 52.3



#42

2,4,6-Tribromophenol

Concen: 57.343 ng

RT: 10.616 min Scan# 1450

Delta R.T. -0.006 min

Lab File: BF137029.D

Acq: 10 Jan 2024 20:02

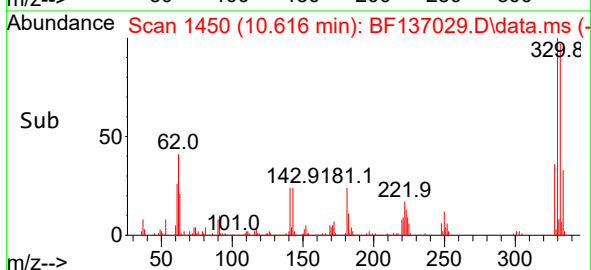
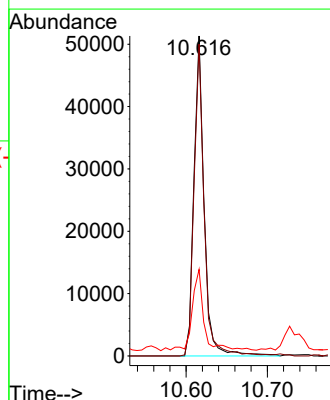
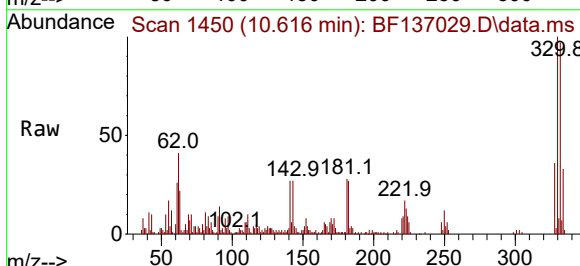
Tgt Ion:330 Resp: 45064

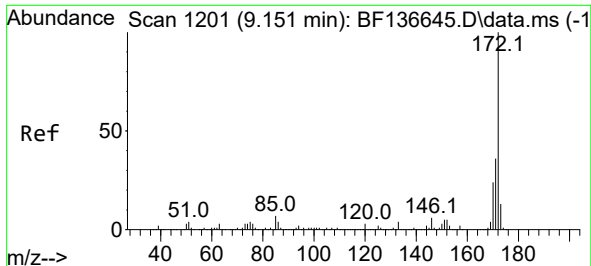
Ion Ratio Lower Upper

330 100

332 96.7 77.4 116.0

141 29.4 23.4 35.2





#45

2-Fluorobiphenyl

Concen: 40.309 ng

RT: 9.139 min Scan# 1199

Delta R.T. -0.012 min

Lab File: BF137029.D

Acq: 10 Jan 2024 20:02

Instrument :

BNA_F

ClientSampleId :

HD-01-010824

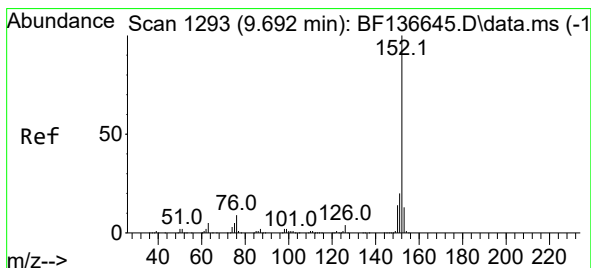
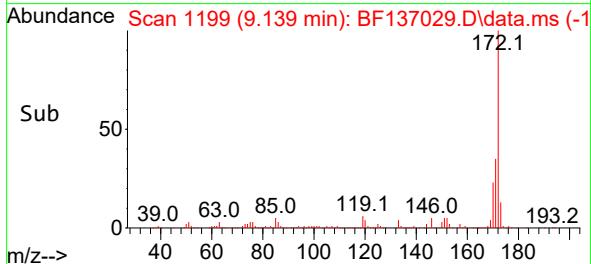
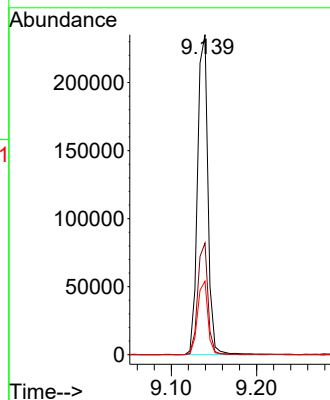
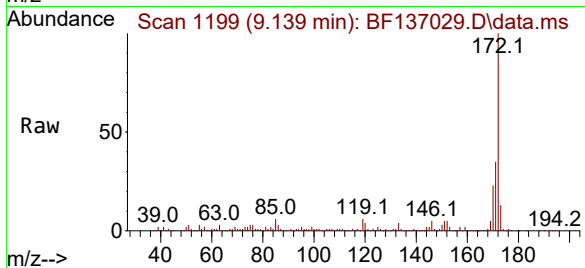
Tgt Ion:172 Resp: 199983

Ion Ratio Lower Upper

172 100

171 34.9 29.0 43.6

170 22.9 19.0 28.4



#49

Acenaphthylene

Concen: 7.521 ng

RT: 9.681 min Scan# 1291

Delta R.T. -0.012 min

Lab File: BF137029.D

Acq: 10 Jan 2024 20:02

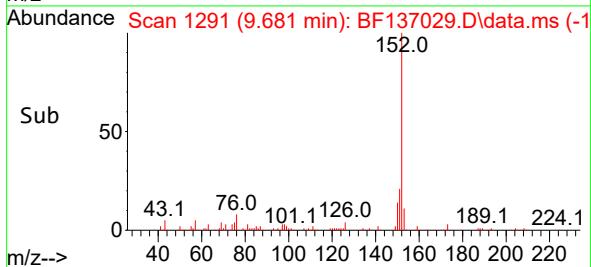
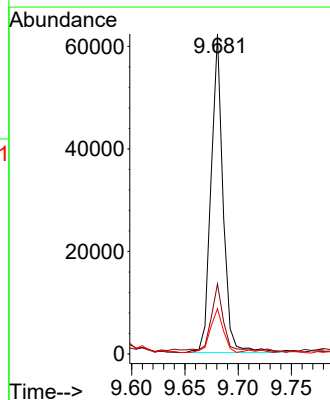
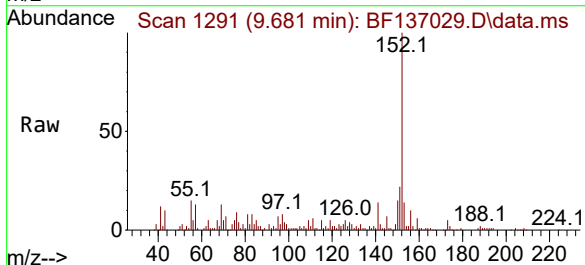
Tgt Ion:152 Resp: 48935

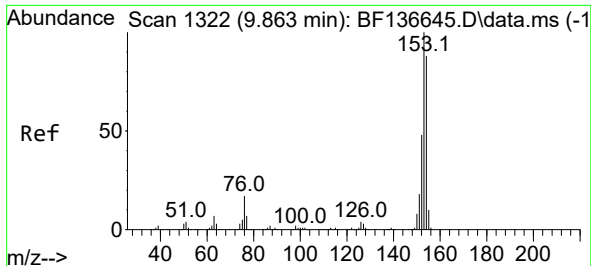
Ion Ratio Lower Upper

152 100

151 21.9 16.2 24.4

153 14.2 10.2 15.2

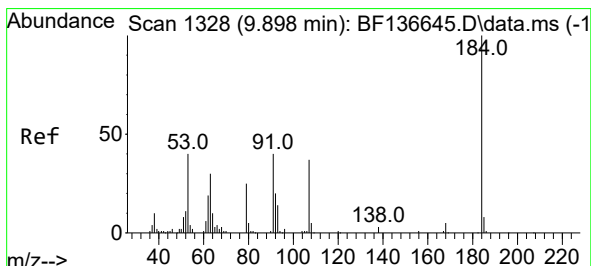
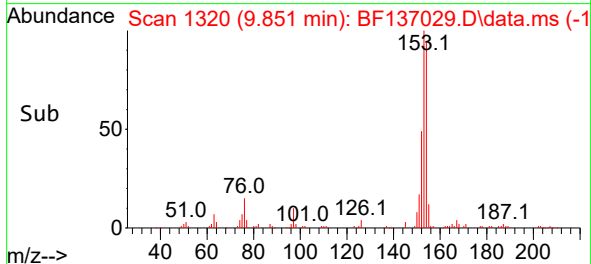
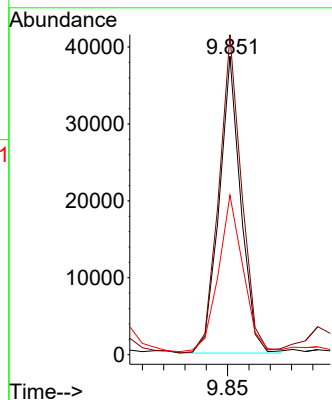
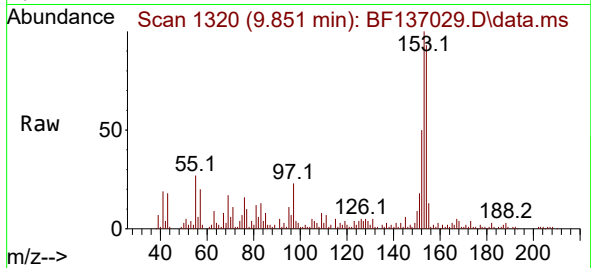




#52
Acenaphthene
Concen: 6.752 ng
RT: 9.851 min Scan# 11
Delta R.T. -0.012 min
Lab File: BF137029.D
Acq: 10 Jan 2024 20:02

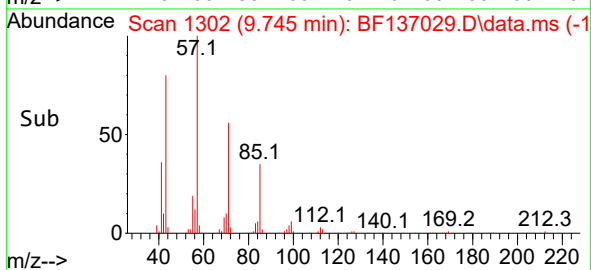
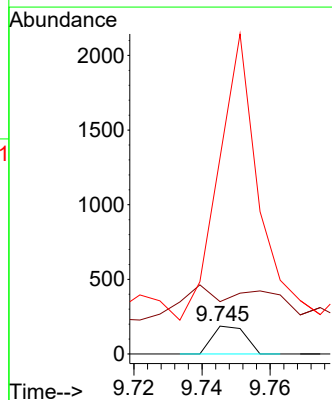
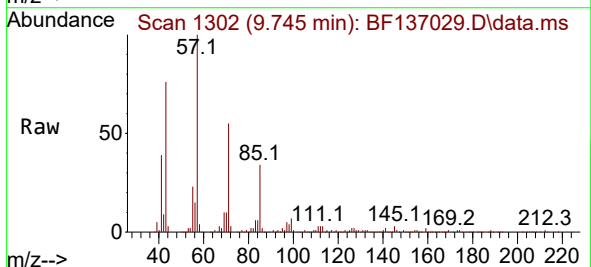
Instrument :
BNA_F
ClientSampleId :
HD-01-010824

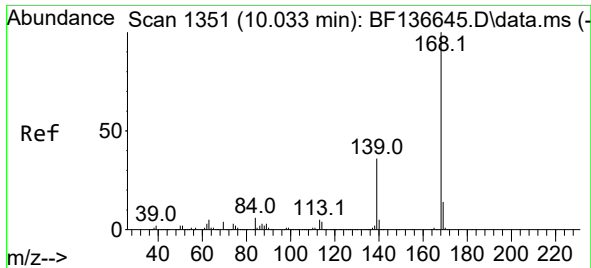
Tgt Ion:154 Resp: 27234
Ion Ratio Lower Upper
154 100
153 107.2 90.7 136.1
152 53.5 43.7 65.5



#54
2,4-Dinitrophenol
Concen: 3.931 ng
RT: 9.745 min Scan# 1302
Delta R.T. -0.153 min
Lab File: BF137029.D
Acq: 10 Jan 2024 20:02

Tgt Ion:184 Resp: 126
Ion Ratio Lower Upper
184 100
63 187.7 40.9 61.3#
154 703.2 42.7 64.1#

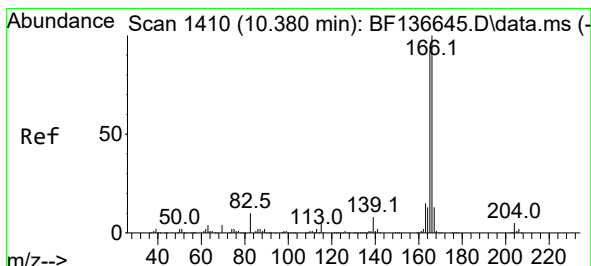
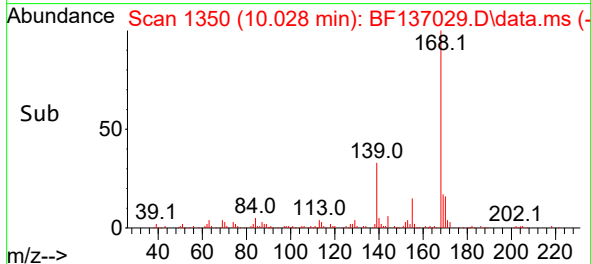
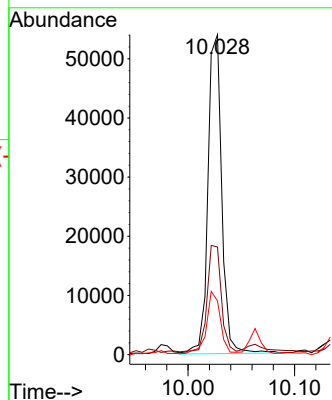
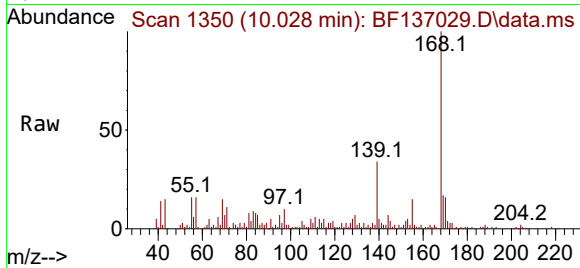




#55
Dibenzenofuran
Concen: 7.980 ng
RT: 10.028 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF137029.D
Acq: 10 Jan 2024 20:02

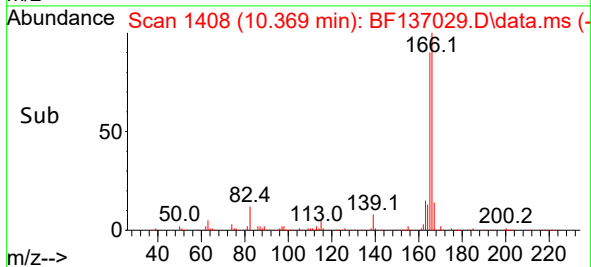
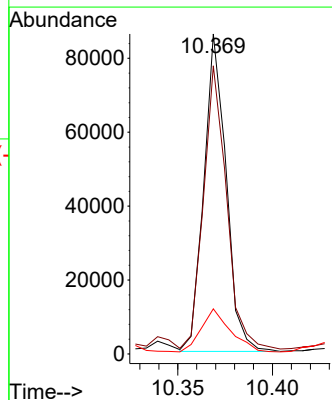
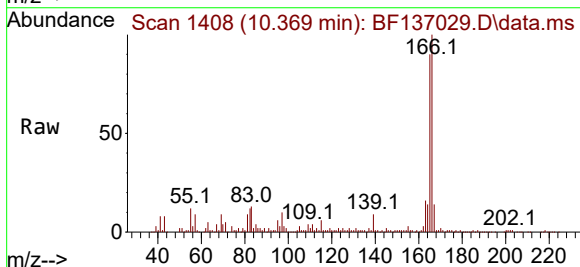
Instrument :
BNA_F
ClientSampleId :
HD-01-010824

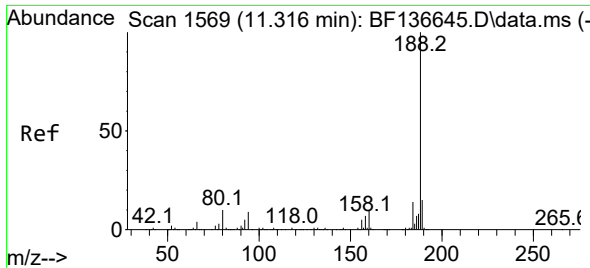
Tgt Ion:168 Resp: 48791
Ion Ratio Lower Upper
168 100
139 33.7 29.3 43.9
169 16.8 11.0 16.4#



#58
Fluorene
Concen: 14.467 ng
RT: 10.369 min Scan# 1408
Delta R.T. -0.012 min
Lab File: BF137029.D
Acq: 10 Jan 2024 20:02

Tgt Ion:166 Resp: 70179
Ion Ratio Lower Upper
166 100
165 90.1 73.7 110.5
167 14.1 10.4 15.6

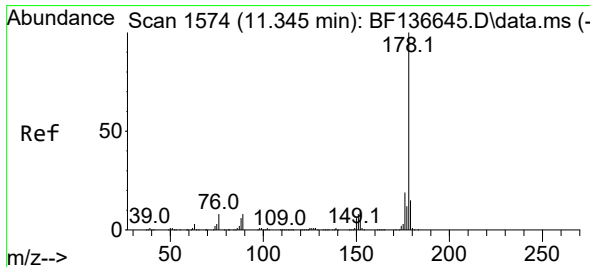
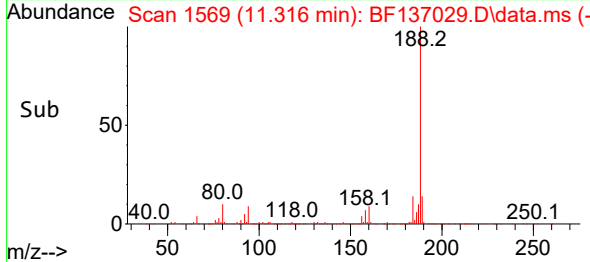
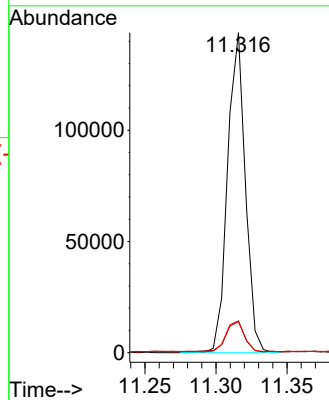
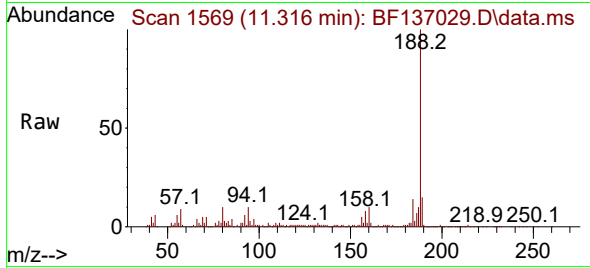




#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.316 min Scan# 11
Delta R.T. 0.000 min
Lab File: BF137029.D
Acq: 10 Jan 2024 20:02

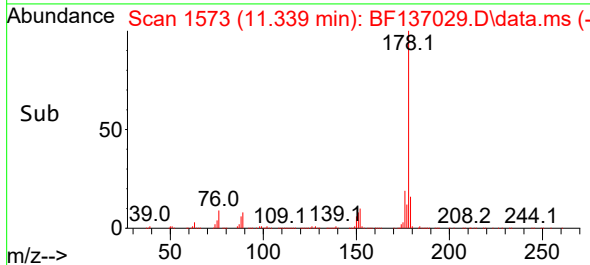
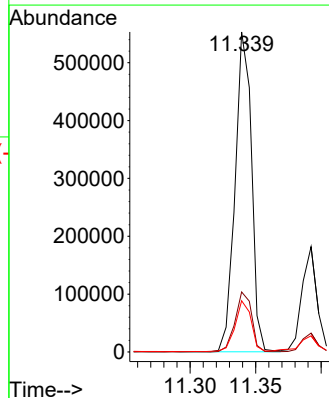
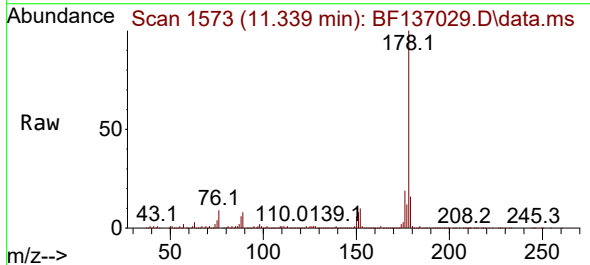
Instrument :
BNA_F
ClientSampleId :
HD-01-010824

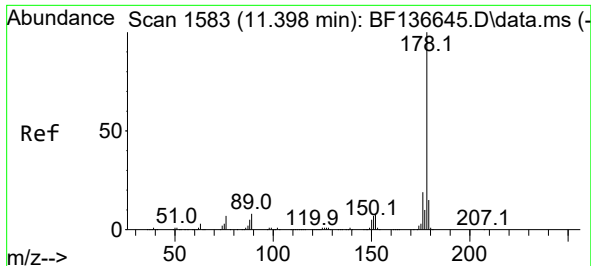
Tgt Ion:188 Resp: 124983
Ion Ratio Lower Upper
188 100
94 9.7 7.5 11.3
80 10.0 8.1 12.1



#71
Phenanthrene
Concen: 75.226 ng
RT: 11.339 min Scan# 1573
Delta R.T. -0.006 min
Lab File: BF137029.D
Acq: 10 Jan 2024 20:02

Tgt Ion:178 Resp: 482424
Ion Ratio Lower Upper
178 100
176 18.7 15.3 22.9
179 16.0 11.9 17.9

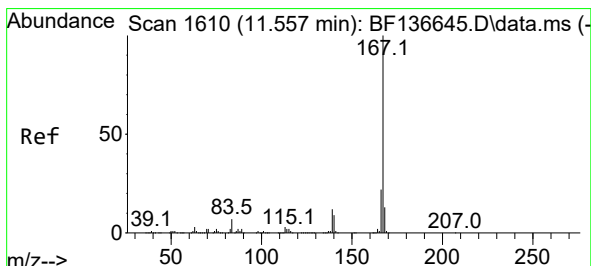
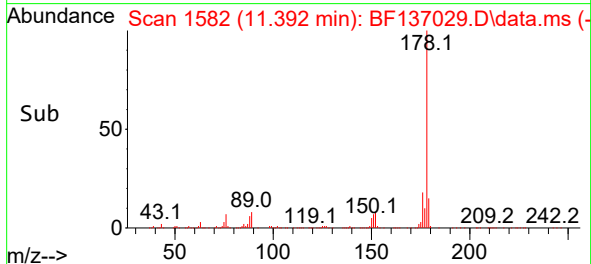
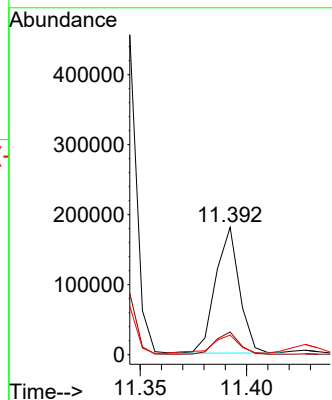
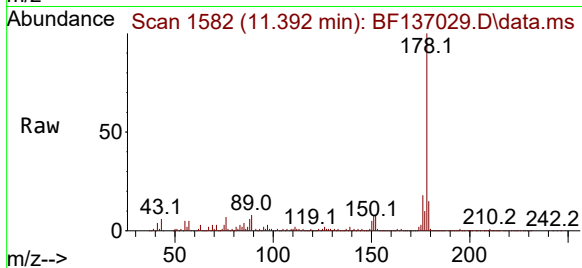




#72
 Anthracene
 Concen: 21.584 ng
 RT: 11.392 min Scan# 11
 Delta R.T. -0.006 min
 Lab File: BF137029.D
 Acq: 10 Jan 2024 20:02

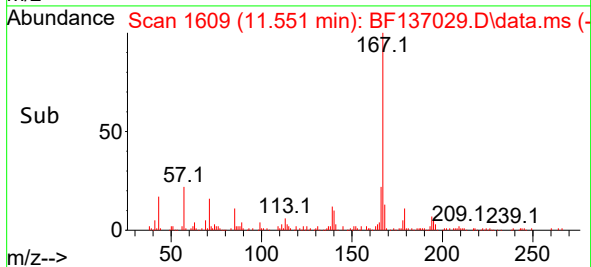
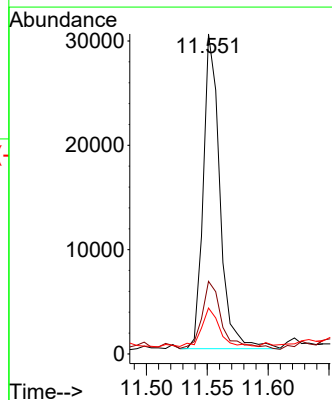
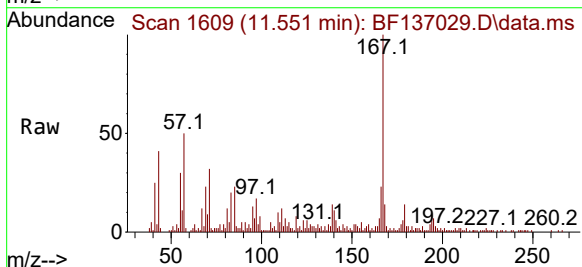
Instrument :
 BNA_F
 ClientSampleId :
 HD-01-010824

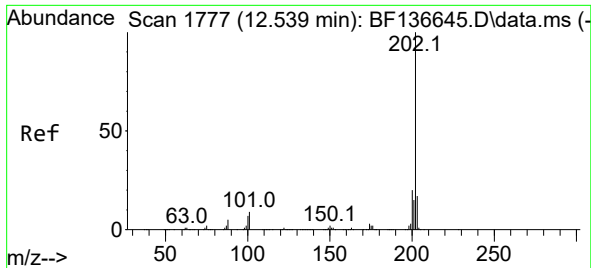
Tgt Ion:178 Resp: 140181
 Ion Ratio Lower Upper
 178 100
 176 17.9 14.9 22.3
 179 15.4 11.8 17.6



#73
 Carbazole
 Concen: 4.685 ng
 RT: 11.551 min Scan# 1609
 Delta R.T. -0.006 min
 Lab File: BF137029.D
 Acq: 10 Jan 2024 20:02

Tgt Ion:167 Resp: 28689
 Ion Ratio Lower Upper
 167 100
 166 22.7 17.3 25.9
 139 14.3 9.8 14.6

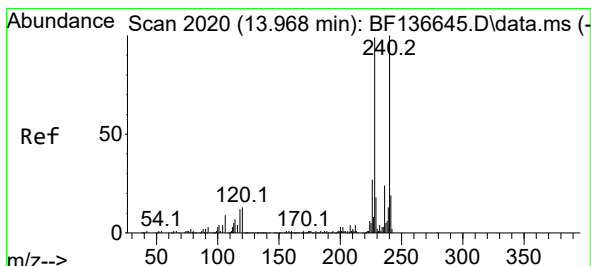
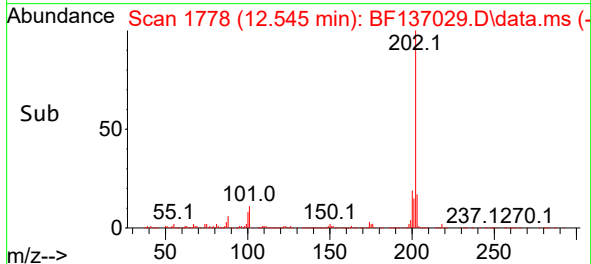
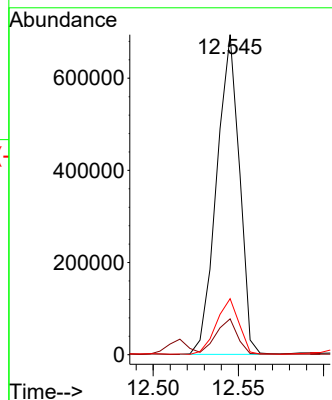
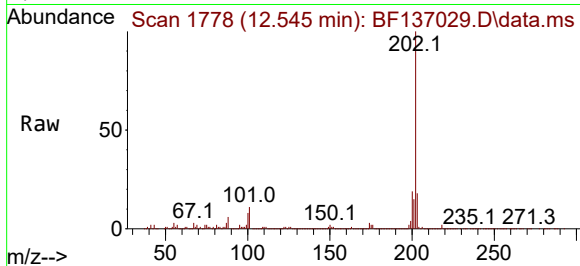




#75
Fluoranthene
Concen: 94.077 ng
RT: 12.545 min Scan# 1777
Delta R.T. 0.006 min
Lab File: BF137029.D
Acq: 10 Jan 2024 20:02

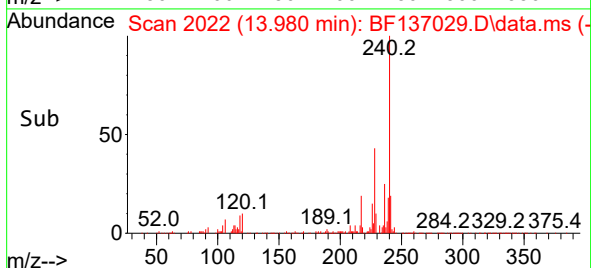
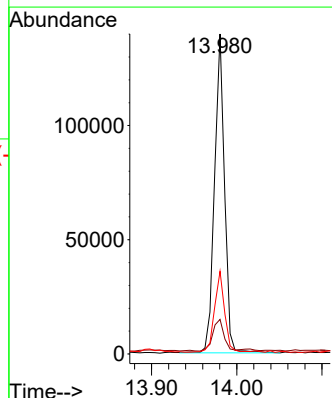
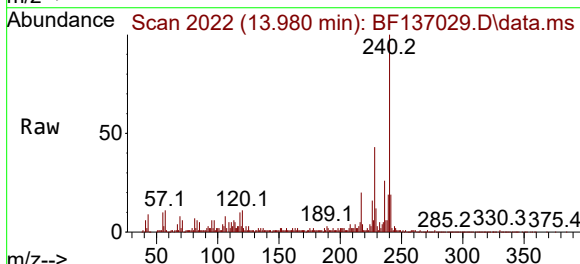
Instrument :
BNA_F
ClientSampleId :
HD-01-010824

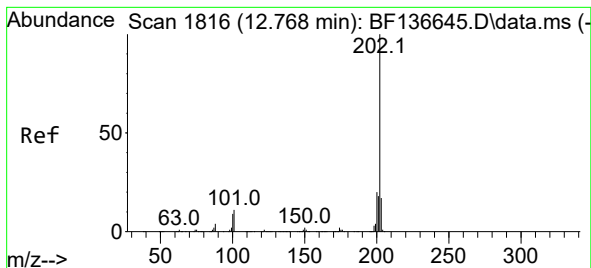
Tgt Ion:202 Resp: 645338
Ion Ratio Lower Upper
202 100
101 11.2 0.0 29.3
203 17.5 0.0 37.1



#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.980 min Scan# 2022
Delta R.T. 0.012 min
Lab File: BF137029.D
Acq: 10 Jan 2024 20:02

Tgt Ion:240 Resp: 114341
Ion Ratio Lower Upper
240 100
120 10.8 10.3 15.5
236 25.9 19.4 29.2





#78

Pyrene

Concen: 49.827 ng

RT: 12.774 min Scan# 1816

Delta R.T. 0.006 min

Lab File: BF137029.D

Acq: 10 Jan 2024 20:02

Instrument :

BNA_F

ClientSampleId :

HD-01-010824

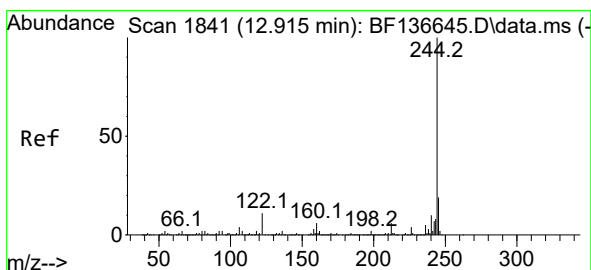
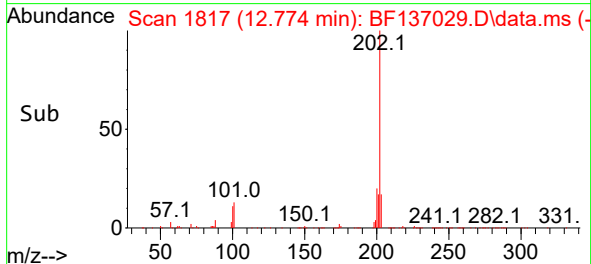
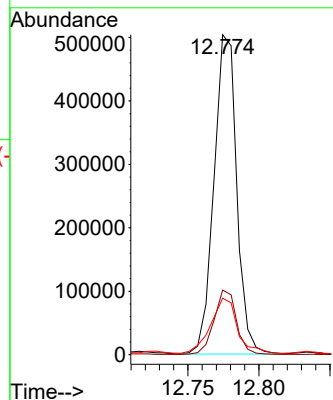
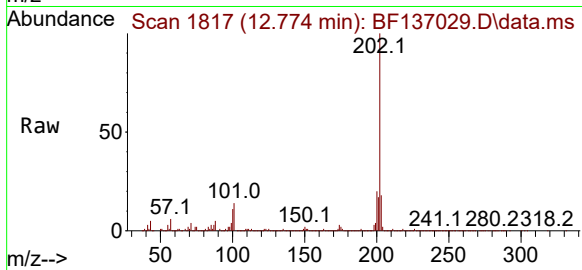
Tgt Ion:202 Resp: 559277

Ion Ratio Lower Upper

202 100

200 20.2 15.9 23.9

203 17.7 13.8 20.6



#79

Terphenyl-d14

Concen: 25.095 ng

RT: 12.916 min Scan# 1841

Delta R.T. 0.000 min

Lab File: BF137029.D

Acq: 10 Jan 2024 20:02

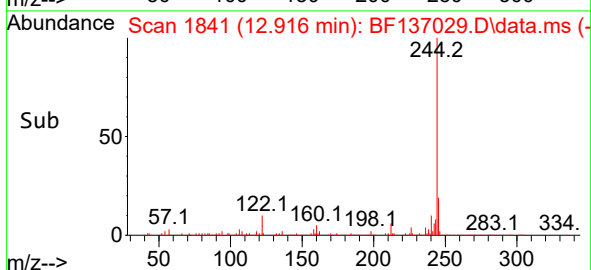
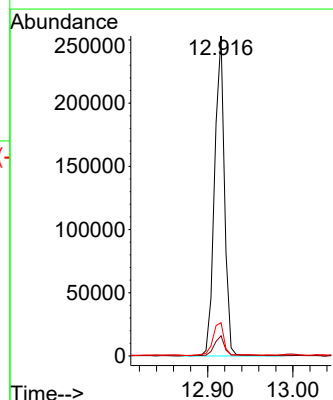
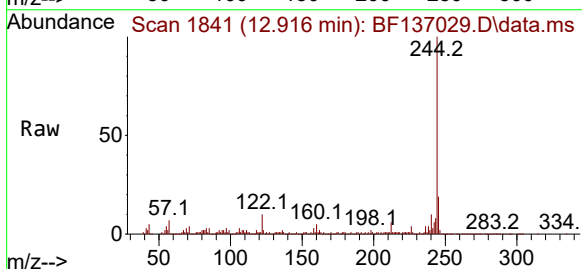
Tgt Ion:244 Resp: 205330

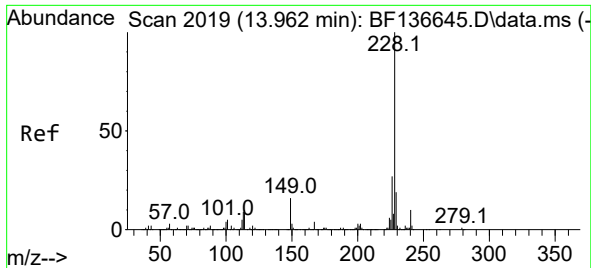
Ion Ratio Lower Upper

244 100

212 6.3 5.0 7.4

122 10.4 9.0 13.4

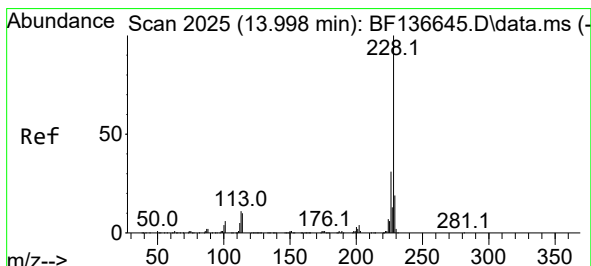
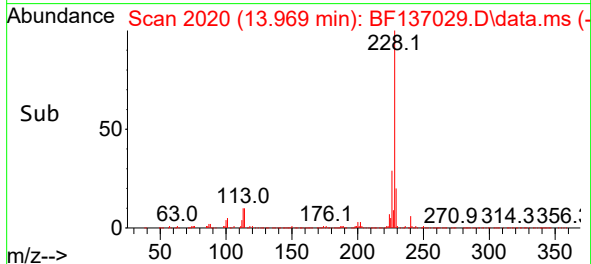
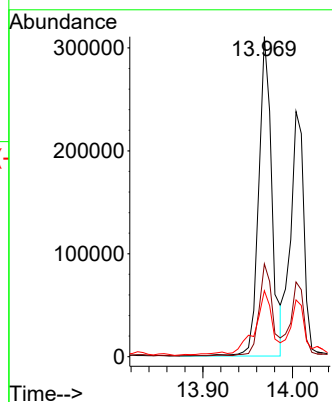
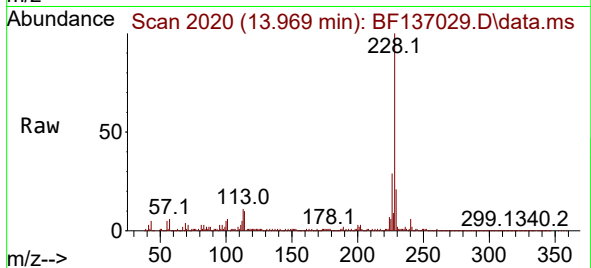




#81
Benzo(a)anthracene
Concen: 39.820 ng
RT: 13.969 min Scan# 2019
Delta R.T. 0.006 min
Lab File: BF137029.D
Acq: 10 Jan 2024 20:02

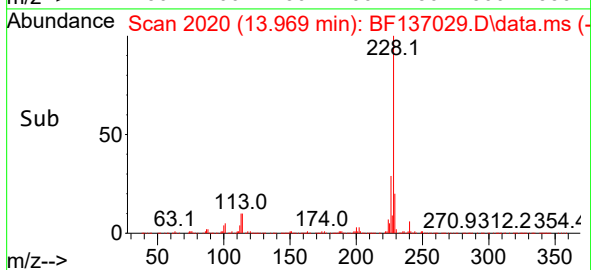
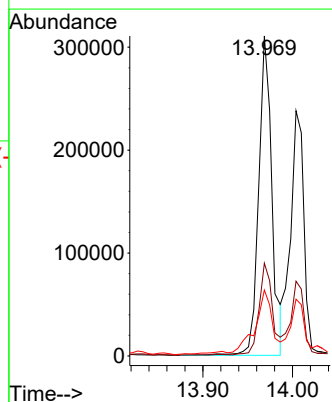
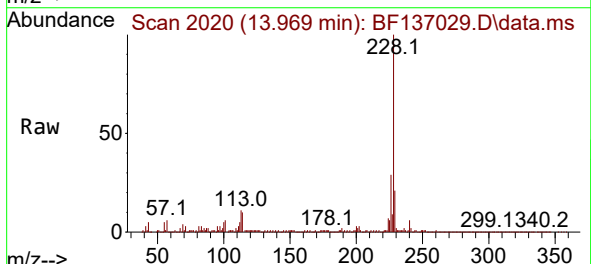
Instrument :
BNA_F
ClientSampleId :
HD-01-010824

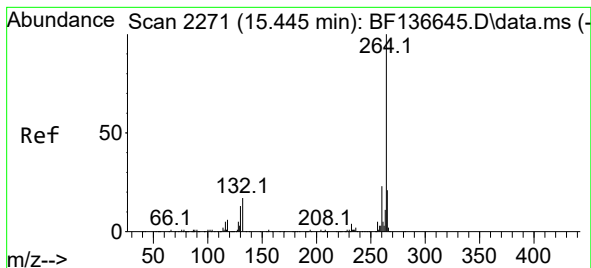
Tgt Ion:228 Resp: 316159
Ion Ratio Lower Upper
228 100
226 29.0 21.4 32.0
229 20.6 14.9 22.3



#83
Chrysene
Concen: 40.720 ng
RT: 13.969 min Scan# 2020
Delta R.T. -0.029 min
Lab File: BF137029.D
Acq: 10 Jan 2024 20:02

Tgt Ion:228 Resp: 316159
Ion Ratio Lower Upper
228 100
226 29.0 24.7 37.1
229 20.6 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: BF137029.D

Acq: 10 Jan 2024 20:02

Instrument :

BNA_F

ClientSampleId :

HD-01-010824

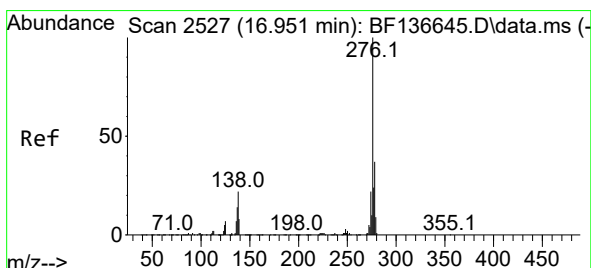
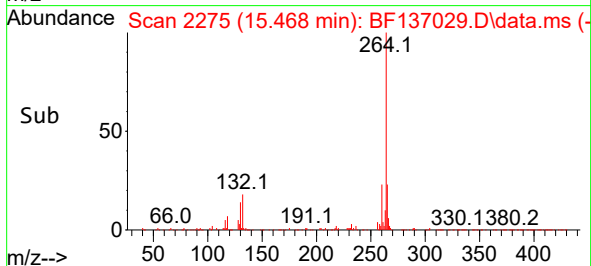
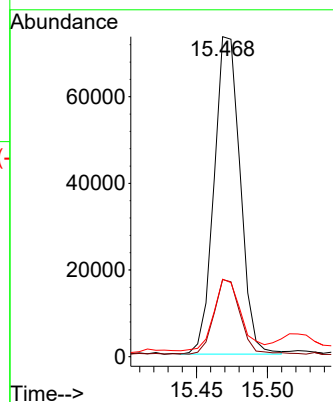
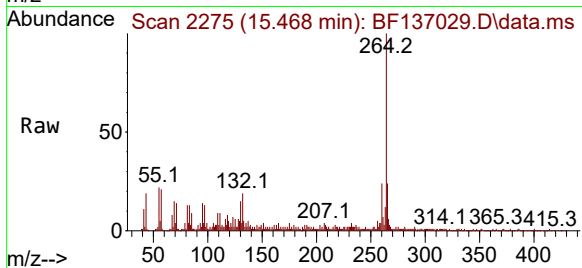
Tgt Ion:264 Resp: 93608

Ion Ratio Lower Upper

264 100

260 24.1 18.3 27.5

265 24.2 17.0 25.6



#87

Indeno(1,2,3-cd)pyrene

Concen: 11.609 ng

RT: 16.998 min Scan# 2535

Delta R.T. 0.047 min

Lab File: BF137029.D

Acq: 10 Jan 2024 20:02

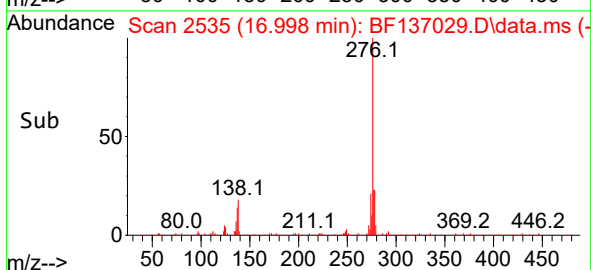
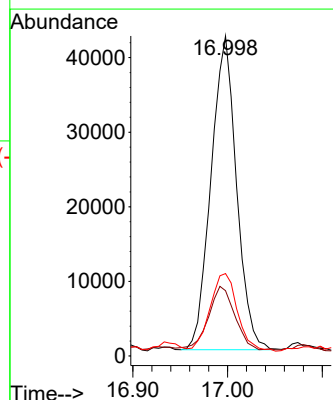
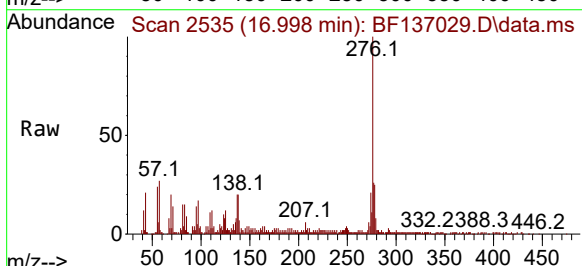
Tgt Ion:276 Resp: 78463

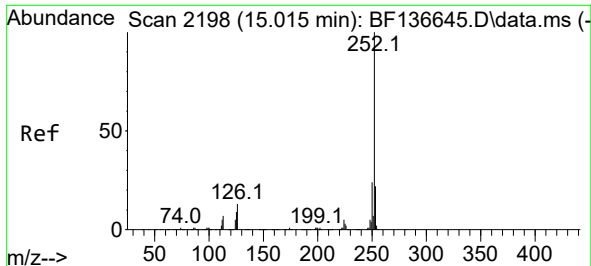
Ion Ratio Lower Upper

276 100

138 20.5 18.7 28.1

277 26.6 20.2 30.2

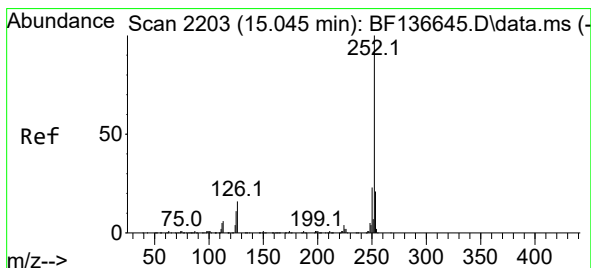
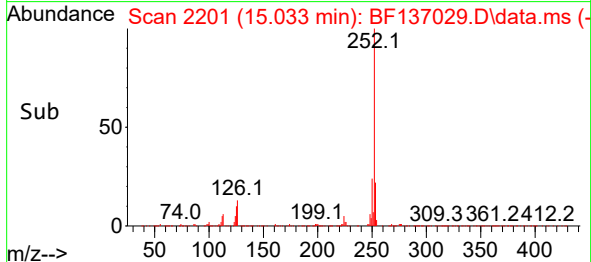
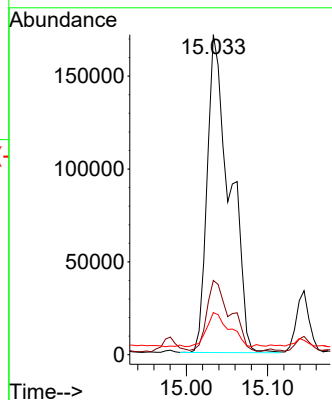
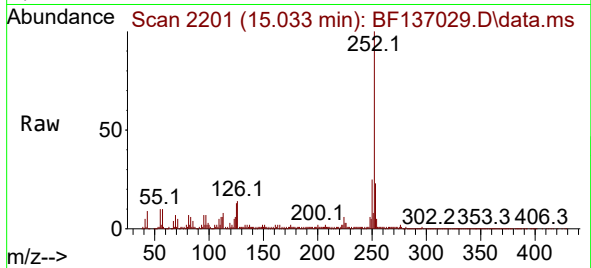




#88
Benzo(b)fluoranthene
Concen: 53.161 ng
RT: 15.033 min Scan# 2198
Delta R.T. 0.018 min
Lab File: BF137029.D
Acq: 10 Jan 2024 20:02

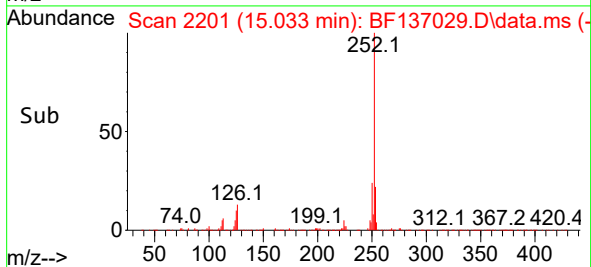
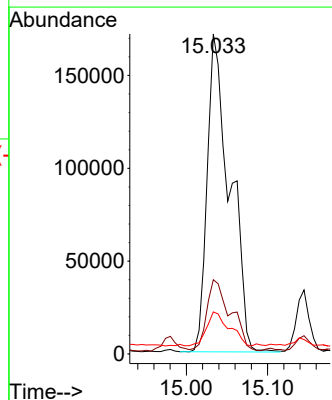
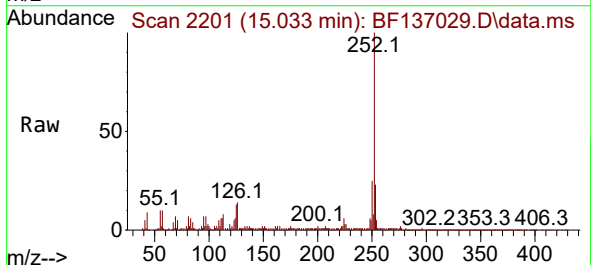
Instrument :
BNA_F
ClientSampleId :
HD-01-010824

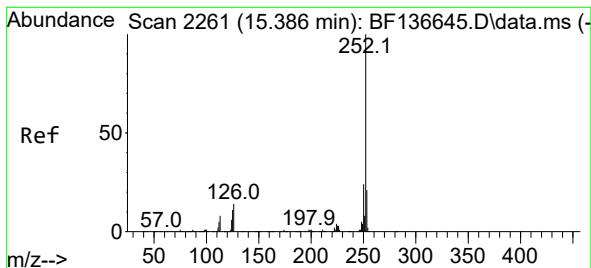
Tgt Ion:252 Resp: 332372
Ion Ratio Lower Upper
252 100
253 23.2 17.4 26.0
125 13.1 7.4 11.2#



#89
Benzo(k)fluoranthene
Concen: 56.261 ng
RT: 15.033 min Scan# 2201
Delta R.T. -0.012 min
Lab File: BF137029.D
Acq: 10 Jan 2024 20:02

Tgt Ion:252 Resp: 332372
Ion Ratio Lower Upper
252 100
253 23.2 17.0 25.6
125 13.1 8.2 12.4#





#90

Benzo(a)pyrene

Concen: 31.722 ng

RT: 15.410 min Scan# 21

Delta R.T. 0.024 min

Lab File: BF137029.D

Acq: 10 Jan 2024 20:02

Instrument :

BNA_F

ClientSampleId :

HD-01-010824

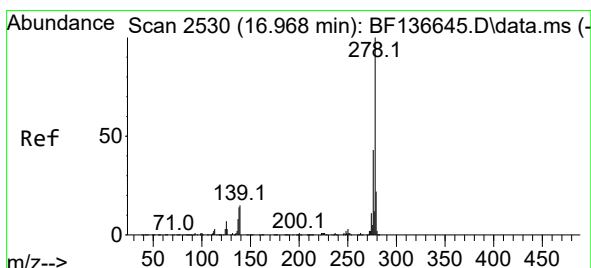
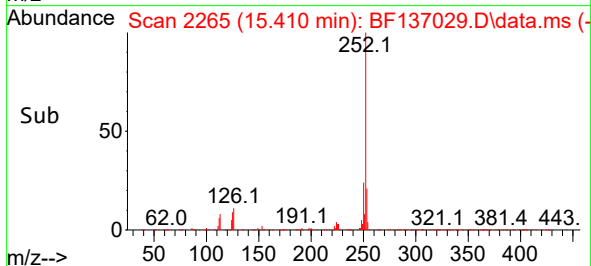
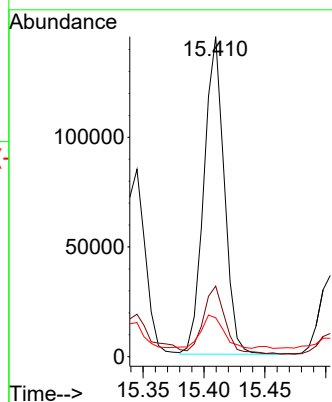
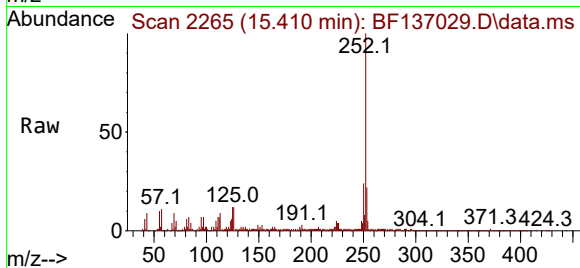
Tgt Ion:252 Resp: 167412

Ion Ratio Lower Upper

252 100

253 22.0 17.0 25.6

125 12.1 8.8 13.2



#91

Dibenzo(a,h)anthracene

Concen: 4.270 ng

RT: 16.998 min Scan# 2535

Delta R.T. 0.030 min

Lab File: BF137029.D

Acq: 10 Jan 2024 20:02

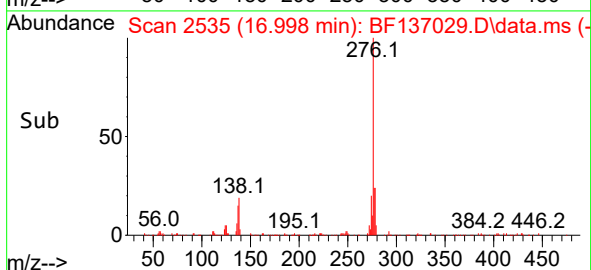
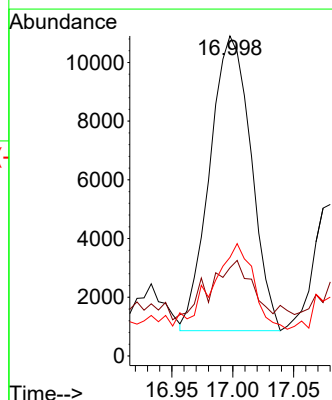
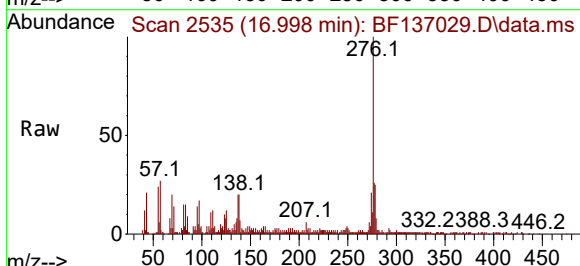
Tgt Ion:278 Resp: 23676

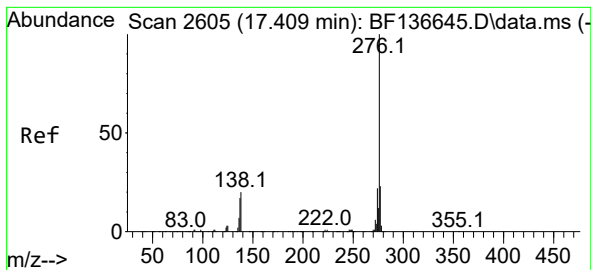
Ion Ratio Lower Upper

278 100

139 27.6 12.2 18.4#

279 30.8 17.8 26.6#





#92

Benzo(g,h,i)perylene

Concen: 12.334 ng

RT: 17.457 min Scan# 20

Delta R.T. 0.047 min

Lab File: BF137029.D

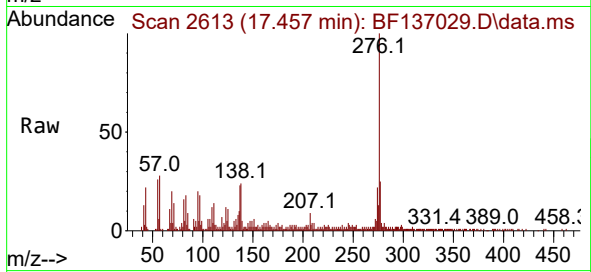
Acq: 10 Jan 2024 20:02

Instrument :

BNA_F

ClientSampleId :

HD-01-010824



Tgt Ion:276 Resp: 70045

Ion Ratio Lower Upper

276 100

277 25.3 18.3 27.5

138 23.7 15.6 23.4#

