

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF091823\
 Data File : BF135325.D
 Acq On : 19 Sep 2023 00:59
 Operator : CG\JU
 Sample : 04423-01 10X
 Misc :
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 HD-01-09132023

Quant Time: Sep 19 01:26:04 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF091123.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Sep 12 00:19:07 2023
 Response via : Initial Calibration

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

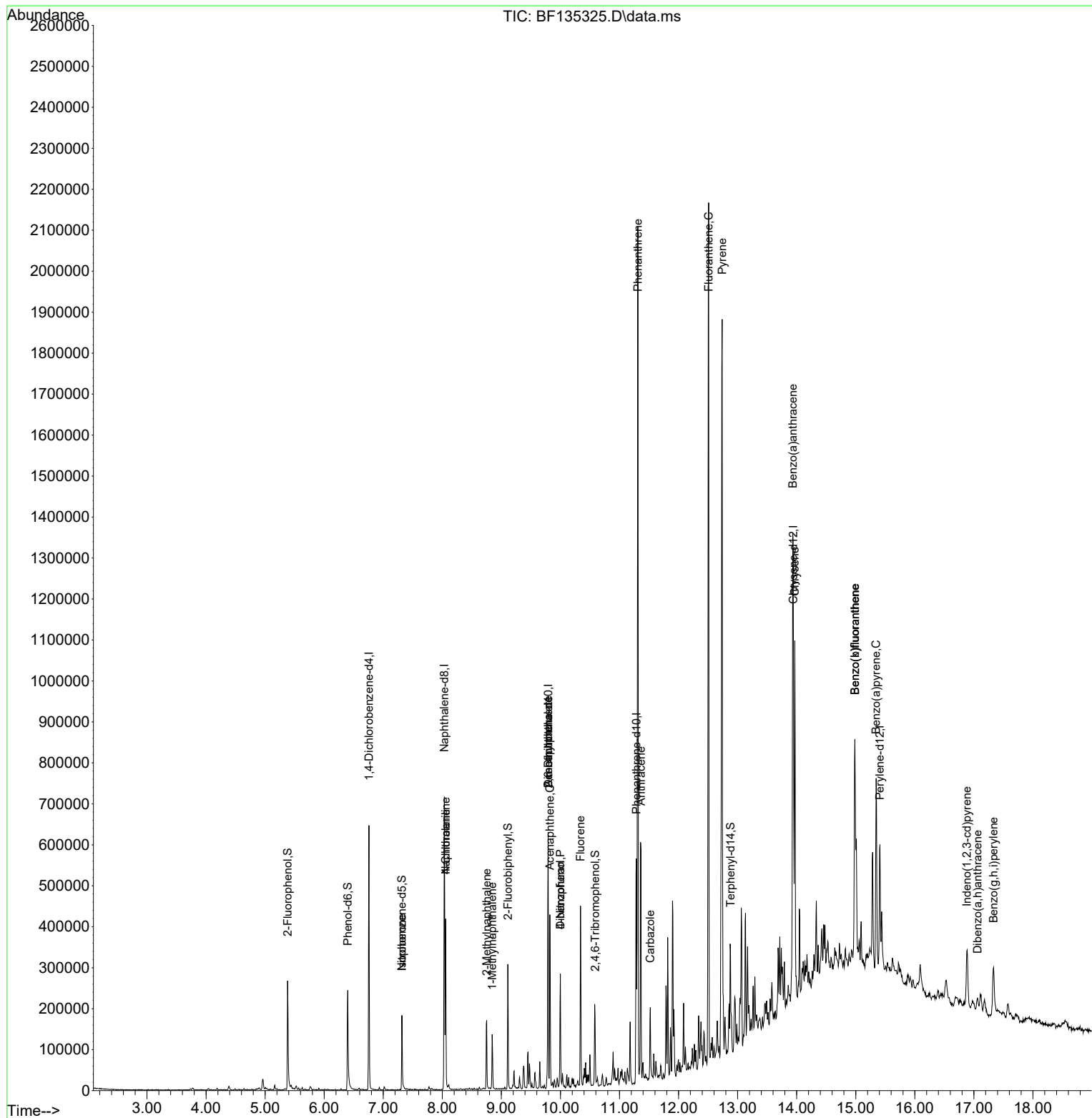
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.757	152	87786	20.000	ng	0.00
21) Naphthalene-d8	8.033	136	279681	20.000	ng	-0.01
39) Acenaphthene-d10	9.792	164	114311	20.000	ng	-0.01
64) Phenanthrene-d10	11.286	188	216401	20.000	ng	0.00
76) Chrysene-d12	13.945	240	194003	20.000	ng	0.00
86) Perylene-d12	15.409	264	144507	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.381	112	80292	14.876	ng	0.00
7) Phenol-d6	6.398	99	92223	13.437	ng	0.00
23) Nitrobenzene-d5	7.316	82	52203	10.141	ng	-0.02
42) 2,4,6-Tribromophenol	10.586	330	14477	12.744	ng	-0.01
45) 2-Fluorobiphenyl	9.110	172	85600	11.298	ng	-0.02
79) Terphenyl-d14	12.880	244	90602	7.240	ng	-0.01
Target Compounds						Qvalue
25) Isophorone	7.316	82	52202	5.522	ng	# 65
31) Naphthalene	8.057	128	159603	11.745	ng	99
33) 4-Chloroaniline	8.057	127	20625	3.459	ng	# 30
37) 2-Methylnaphthalene	8.751	142	47850	5.238	ng	97
38) 1-Methylnaphthalene	8.845	142	33294	3.893	ng	97
50) Dimethylphthalate	9.792	163	23216	3.004	ng	# 1
51) 2,6-Dinitrotoluene	9.792	165	16064	9.488	ng	# 18
52) Acenaphthene	9.822	154	80453	12.857	ng	95
55) Dibenzofuran	9.998	168	96267	10.081	ng	99
56) 4-Nitrophenol	9.998	139	33751	26.721	ng	# 4
58) Fluorene	10.339	166	118328	16.119	ng	96
71) Phenanthrene	11.310	178	739947	72.297	ng	99
72) Anthracene	11.363	178	231891	22.042	ng	99
73) Carbazole	11.521	167	70170	7.327	ng	97
75) Fluoranthene	12.510	202	927641	86.983	ng	99
78) Pyrene	12.739	202	838249	45.383	ng	99
81) Benzo(a)anthracene	13.933	228	421125	33.617	ng	98
83) Chrysene	13.968	228	328307	26.359	ng	97
87) Indeno(1,2,3-cd)pyrene	16.880	276	97196	10.258	ng	97
88) Benzo(b)fluoranthene	14.986	252	408194	52.181	ng	# 94
89) Benzo(k)fluoranthene	14.986	252	408194	52.824	ng	# 95
90) Benzo(a)pyrene	15.345	252	209431	28.074	ng	98
91) Dibenzo(a,h)anthracene	17.062	278	21753	2.806	ng	93
92) Benzo(g,h,i)perylene	17.333	276	98421	12.156	ng	99

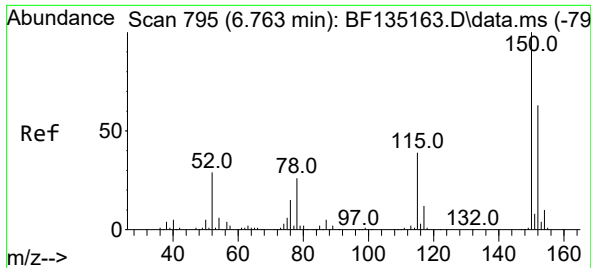
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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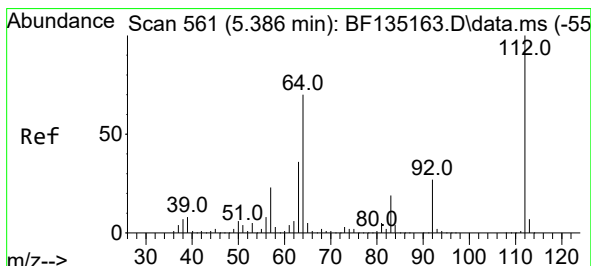
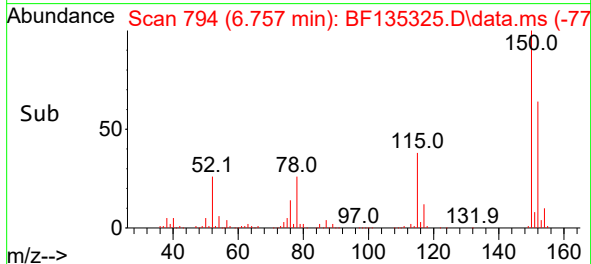
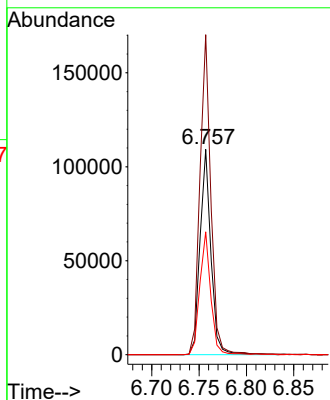
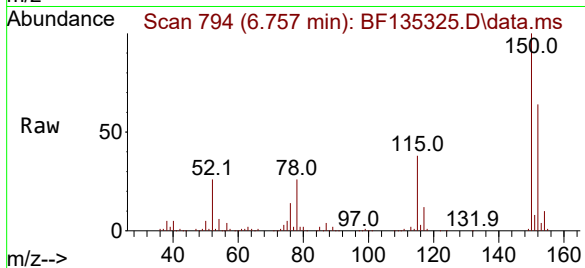




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.757 min Scan# 795
Delta R.T. -0.006 min
Lab File: BF135325.D
Acq: 19 Sep 2023 00:59

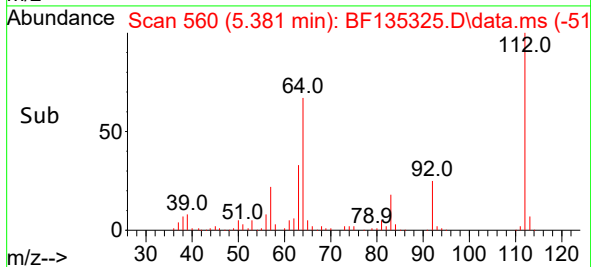
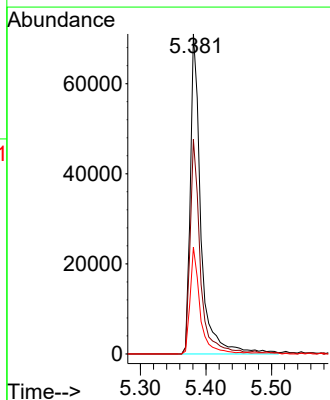
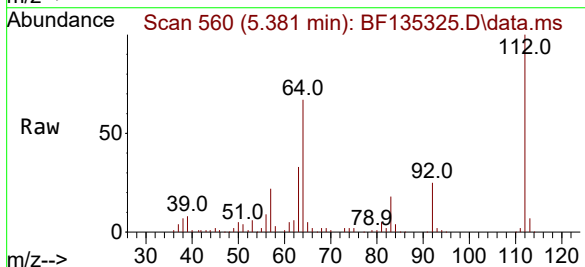
Instrument :
BNA_F
ClientSampleId :
HD-01-09132023

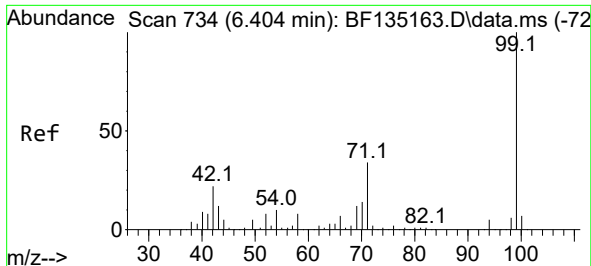
Tgt Ion:152 Resp: 87786
Ion Ratio Lower Upper
152 100
150 155.9 127.8 191.6
115 59.9 49.8 74.8



#5
2-Fluorophenol
Concen: 14.876 ng
RT: 5.381 min Scan# 560
Delta R.T. -0.006 min
Lab File: BF135325.D
Acq: 19 Sep 2023 00:59

Tgt Ion:112 Resp: 80292
Ion Ratio Lower Upper
112 100
64 67.1 55.9 83.9
63 33.4 29.0 43.6

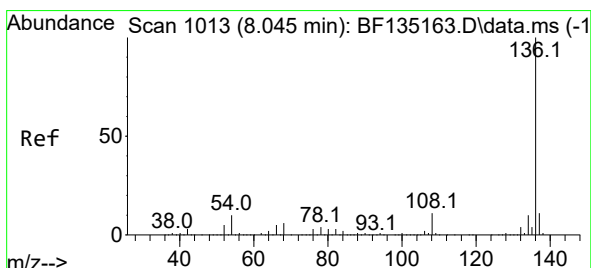
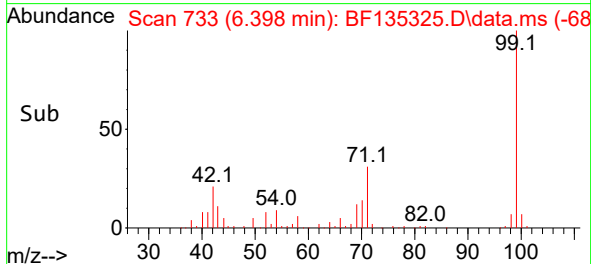
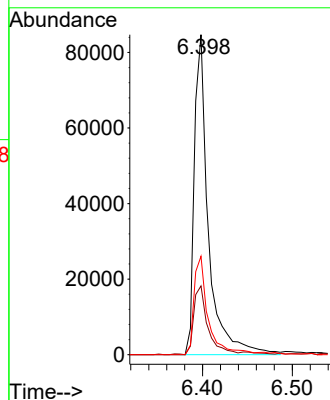
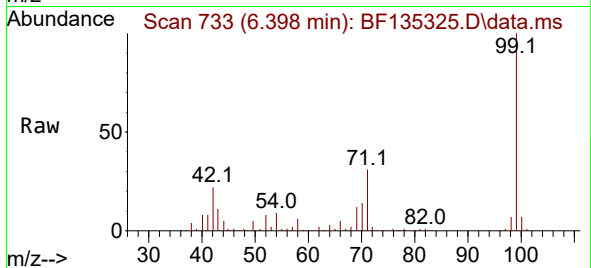




#7
Phenol-d6
Concen: 13.437 ng
RT: 6.398 min Scan# 71
Delta R.T. -0.006 min
Lab File: BF135325.D
Acq: 19 Sep 2023 00:59

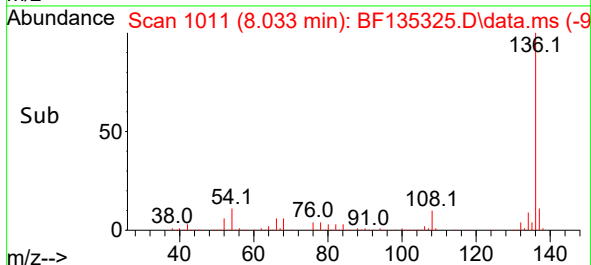
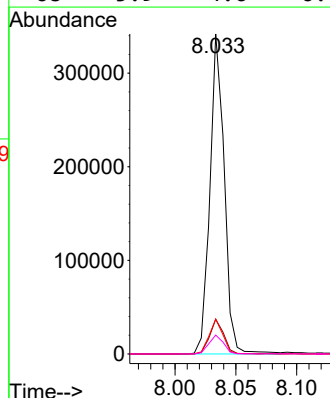
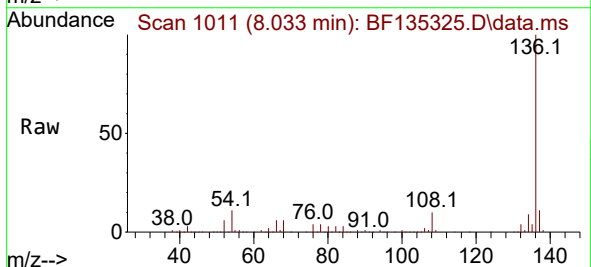
Instrument :
BNA_F
ClientSampleId :
HD-01-09132023

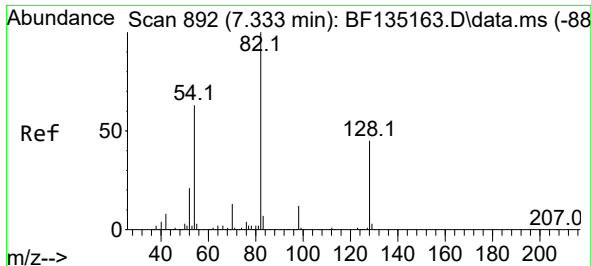
Tgt Ion: 99 Resp: 92223
Ion Ratio Lower Upper
99 100
42 21.5 17.9 26.9
71 30.8 27.0 40.6



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.033 min Scan# 1011
Delta R.T. -0.012 min
Lab File: BF135325.D
Acq: 19 Sep 2023 00:59

Tgt Ion:136 Resp: 279681
Ion Ratio Lower Upper
136 100
137 10.9 8.8 13.2
54 10.9 7.7 11.5
68 5.9 4.6 6.8





#23

Nitrobenzene-d5

Concen: 10.141 ng

RT: 7.316 min Scan# 889

Delta R.T. -0.018 min

Lab File: BF135325.D

Acq: 19 Sep 2023 00:59

Instrument :

BNA_F

ClientSampleId :

HD-01-09132023

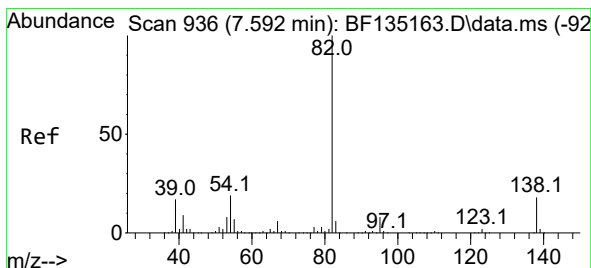
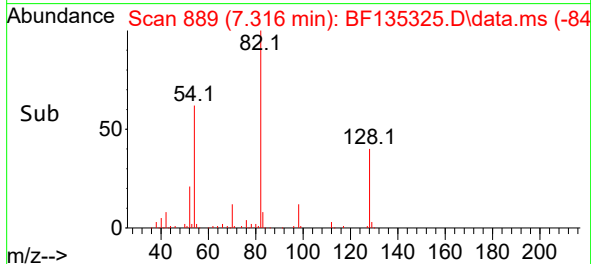
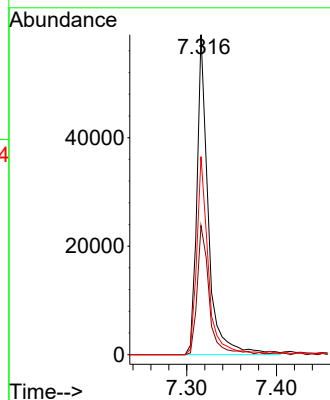
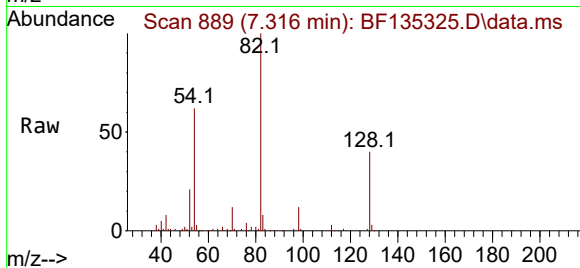
Tgt Ion: 82 Resp: 52203

Ion Ratio Lower Upper

82 100

128 40.4 35.8 53.6

54 61.9 50.6 76.0



#25

Isophorone

Concen: 5.522 ng

RT: 7.316 min Scan# 889

Delta R.T. -0.276 min

Lab File: BF135325.D

Acq: 19 Sep 2023 00:59

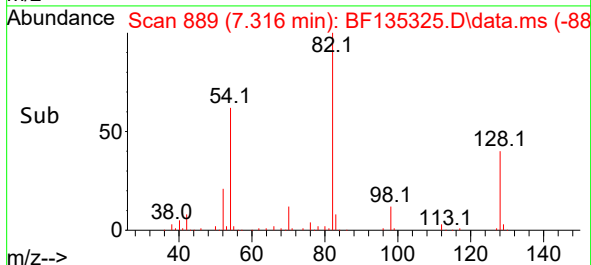
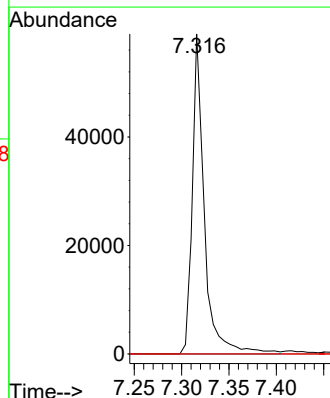
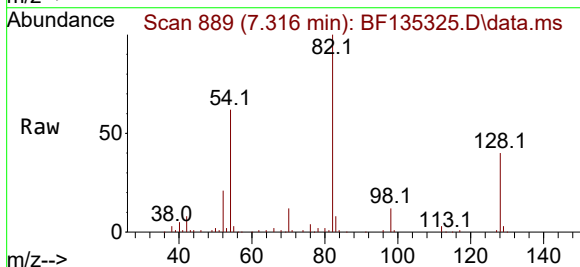
Tgt Ion: 82 Resp: 52202

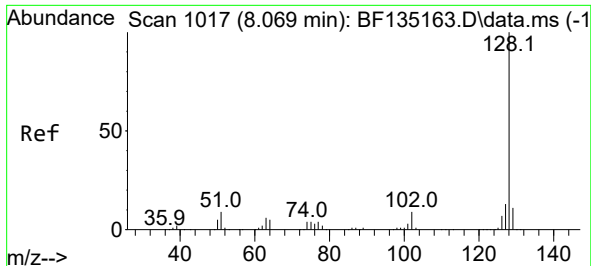
Ion Ratio Lower Upper

82 100

95 0.0 6.0 9.0#

138 0.0 14.5 21.7#

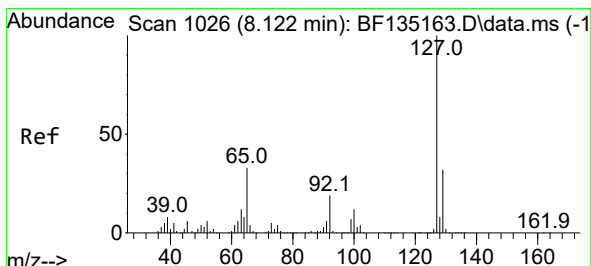
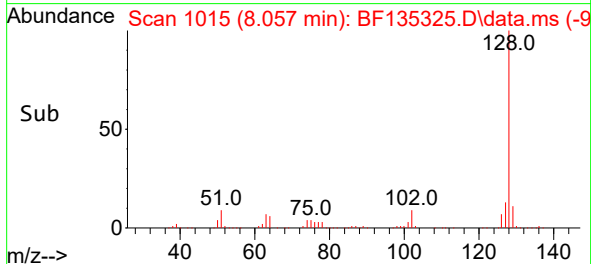
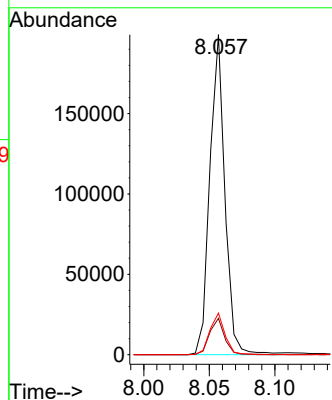
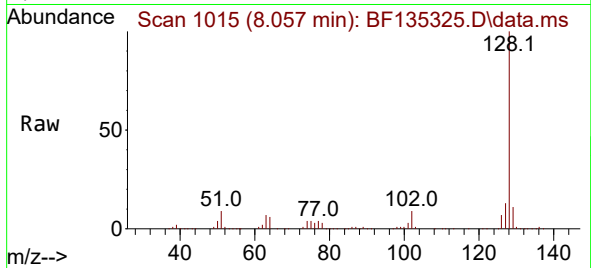




#31
Naphthalene
Concen: 11.745 ng
RT: 8.057 min Scan# 1015
Delta R.T. -0.012 min
Lab File: BF135325.D
Acq: 19 Sep 2023 00:59

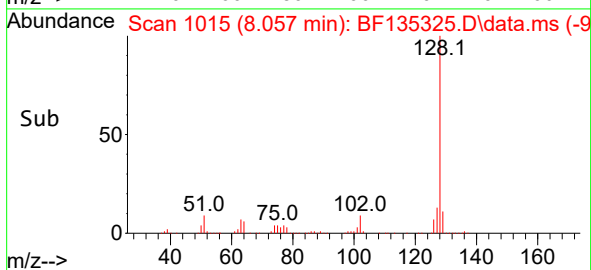
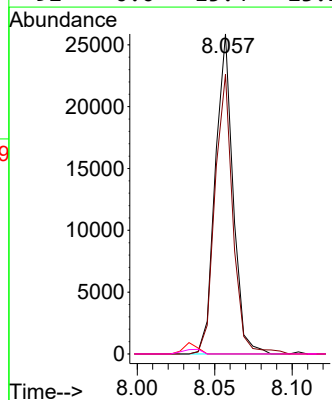
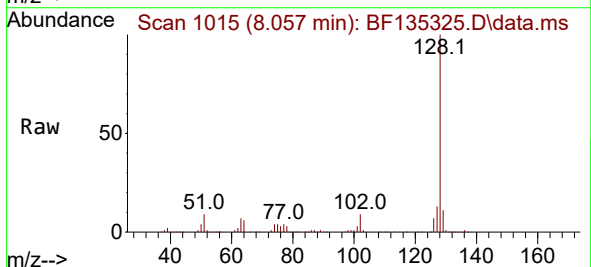
Instrument :
BNA_F
ClientSampleId :
HD-01-09132023

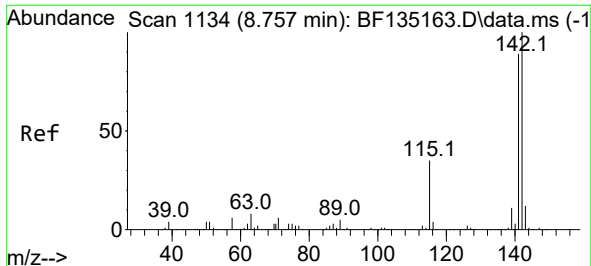
Tgt Ion:128 Resp: 159603
Ion Ratio Lower Upper
128 100
129 11.4 8.7 13.1
127 13.0 10.7 16.1



#33
4-Chloroaniline
Concen: 3.459 ng
RT: 8.057 min Scan# 1015
Delta R.T. -0.065 min
Lab File: BF135325.D
Acq: 19 Sep 2023 00:59

Tgt Ion:127 Resp: 20625
Ion Ratio Lower Upper
127 100
129 87.4 25.8 38.8#
65 0.0 26.6 39.8#
92 0.0 15.4 23.2#





#37

2-Methylnaphthalene

Concen: 5.238 ng

RT: 8.751 min Scan# 1133

Delta R.T. -0.006 min

Lab File: BF135325.D

Acq: 19 Sep 2023 00:59

Instrument :

BNA_F

ClientSampleId :

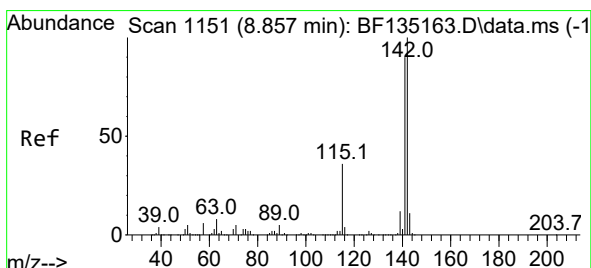
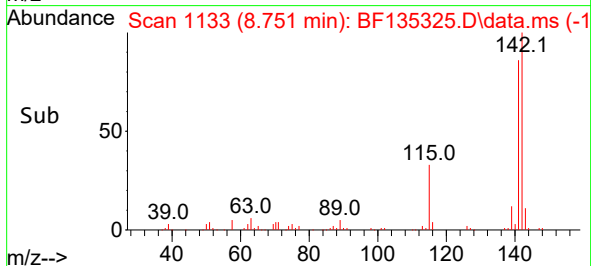
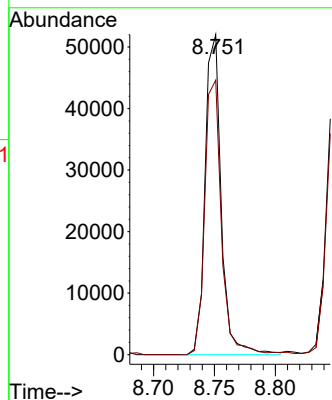
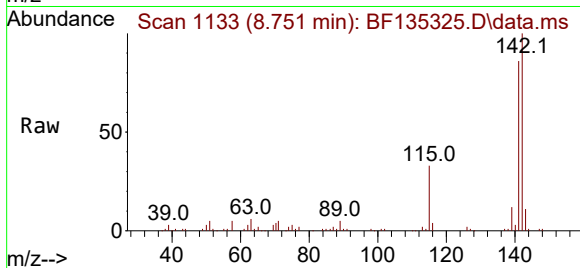
HD-01-09132023

Tgt Ion:142 Resp: 47850

Ion Ratio Lower Upper

142 100

141 85.8 71.0 106.6



#38

1-Methylnaphthalene

Concen: 3.893 ng

RT: 8.845 min Scan# 1149

Delta R.T. -0.012 min

Lab File: BF135325.D

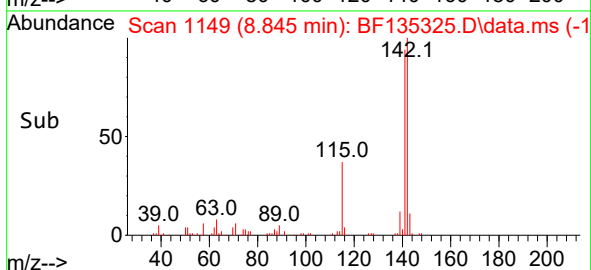
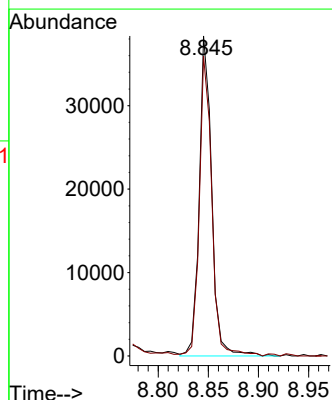
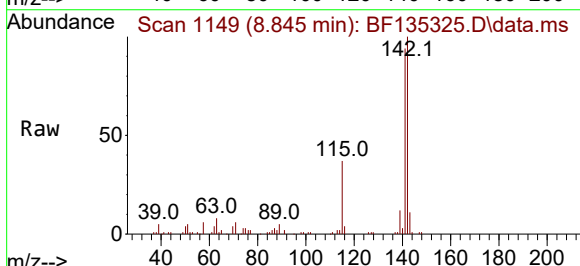
Acq: 19 Sep 2023 00:59

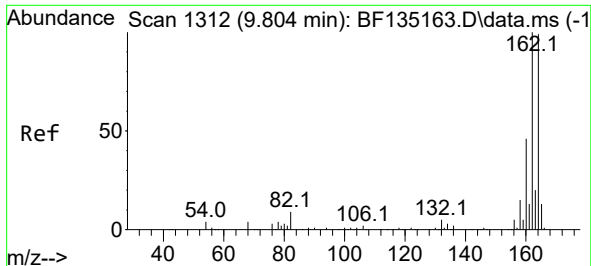
Tgt Ion:142 Resp: 33294

Ion Ratio Lower Upper

142 100

141 93.7 72.4 108.6





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.792 min Scan# 11

Delta R.T. -0.012 min

Lab File: BF135325.D

Acq: 19 Sep 2023 00:59

Instrument :

BNA_F

ClientSampleId :

HD-01-09132023

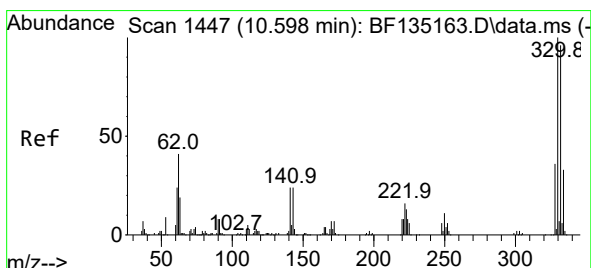
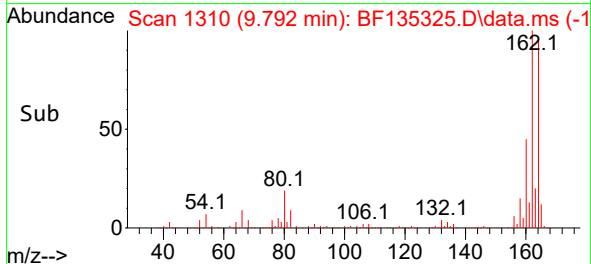
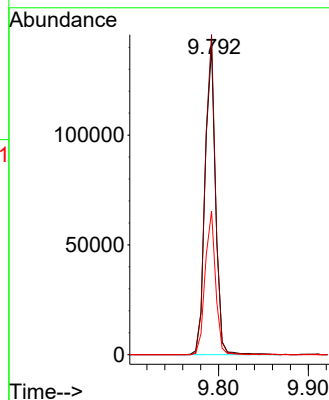
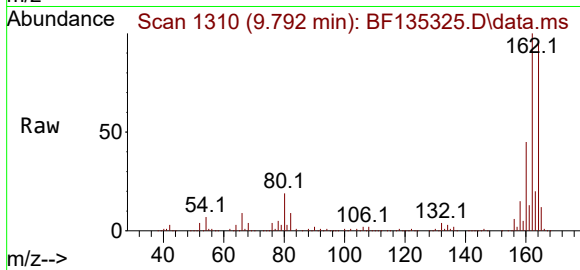
Tgt Ion:164 Resp: 114311

Ion Ratio Lower Upper

164 100

162 104.0 81.0 121.4

160 46.6 37.0 55.4



#42

2,4,6-Tribromophenol

Concen: 12.744 ng

RT: 10.586 min Scan# 1445

Delta R.T. -0.012 min

Lab File: BF135325.D

Acq: 19 Sep 2023 00:59

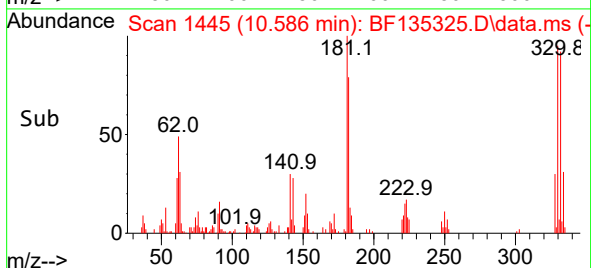
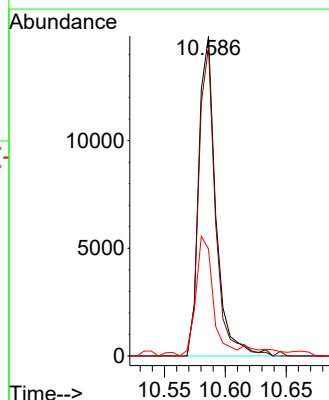
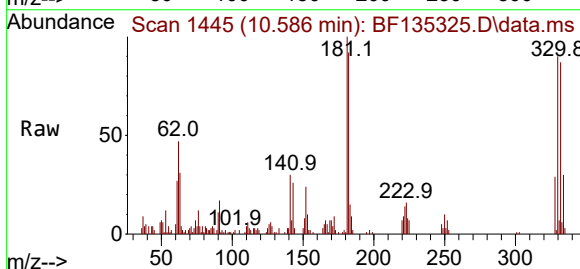
Tgt Ion:330 Resp: 14477

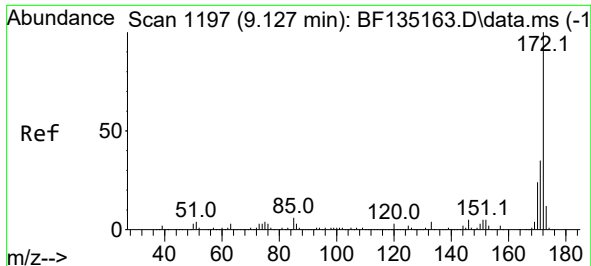
Ion Ratio Lower Upper

330 100

332 94.4 77.3 115.9

141 35.5 25.8 38.8





#45

2-Fluorobiphenyl

Concen: 11.298 ng

RT: 9.110 min Scan# 1197

Delta R.T. -0.018 min

Lab File: BF135325.D

Acq: 19 Sep 2023 00:59

Instrument :

BNA_F

ClientSampleId :

HD-01-09132023

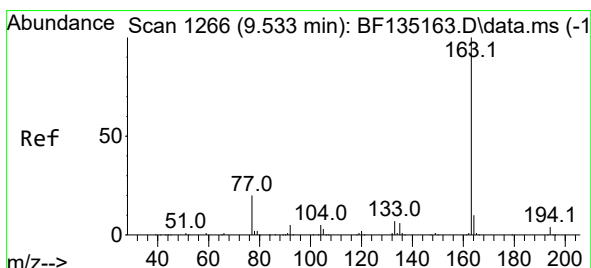
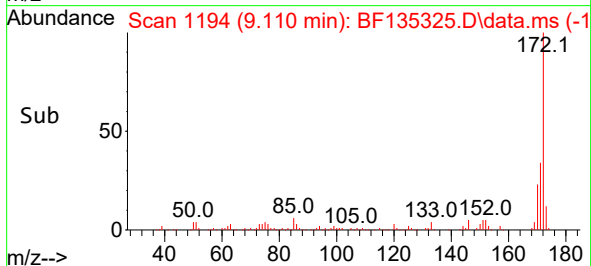
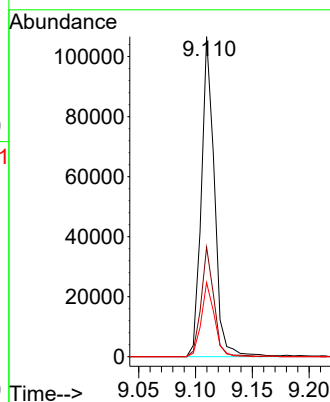
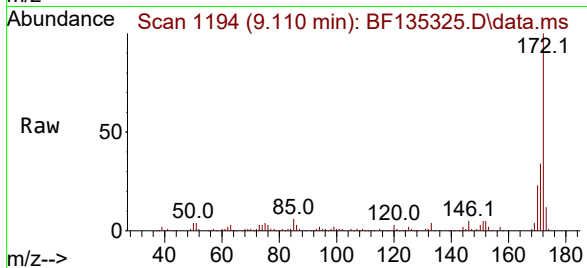
Tgt Ion:172 Resp: 85600

Ion Ratio Lower Upper

172 100

171 34.3 28.4 42.6

170 23.1 19.0 28.4



#50

Dimethylphthalate

Concen: 3.004 ng

RT: 9.792 min Scan# 1310

Delta R.T. 0.259 min

Lab File: BF135325.D

Acq: 19 Sep 2023 00:59

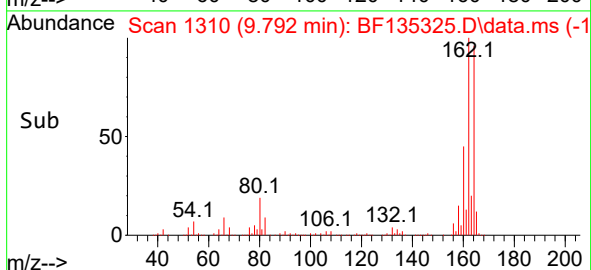
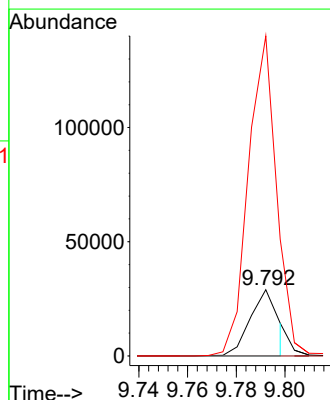
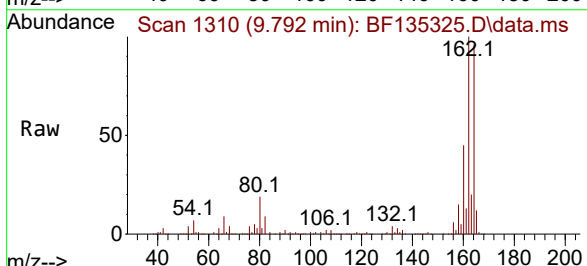
Tgt Ion:163 Resp: 23216

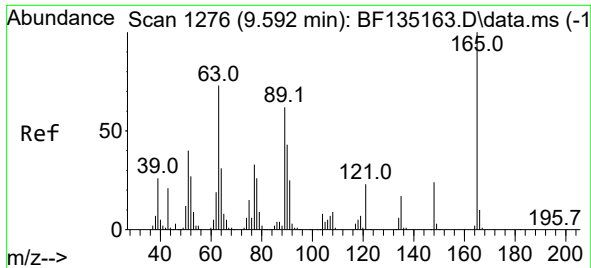
Ion Ratio Lower Upper

163 100

194 0.0 3.1 4.7#

164 482.6 8.1 12.1#

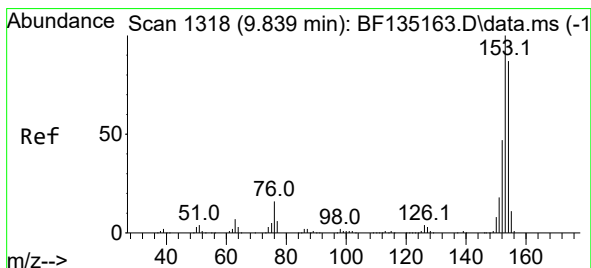
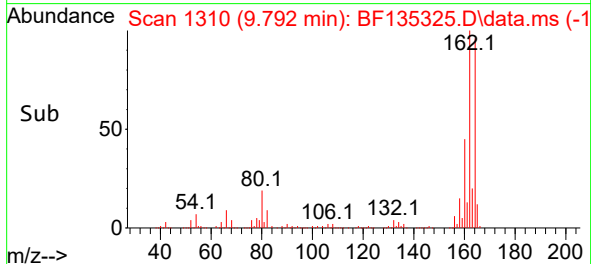
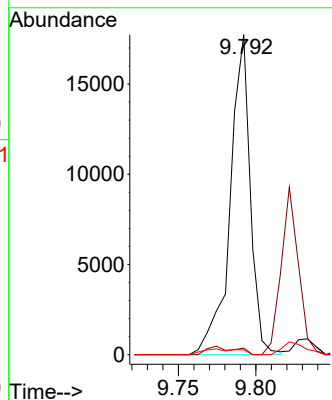
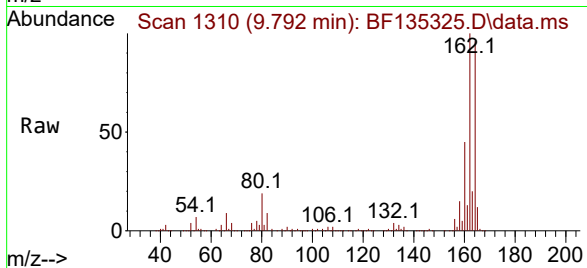




#51
2,6-Dinitrotoluene
Concen: 9.488 ng
RT: 9.792 min Scan# 11
Delta R.T. 0.200 min
Lab File: BF135325.D
Acq: 19 Sep 2023 00:59

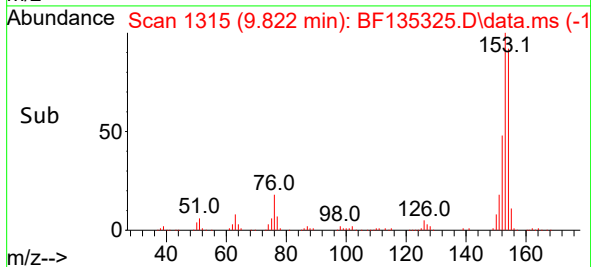
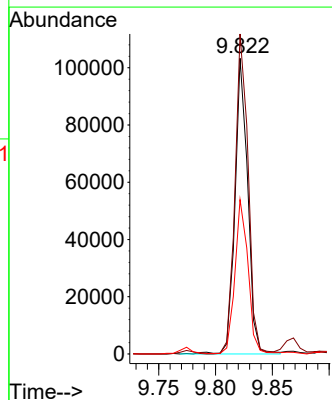
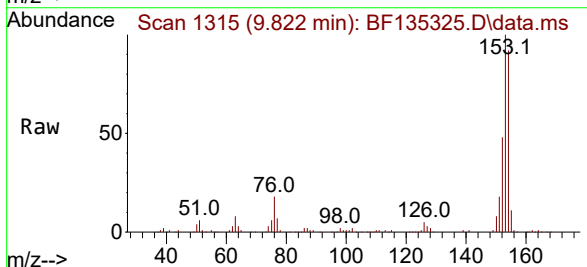
Instrument :
BNA_F
ClientSampleId :
HD-01-09132023

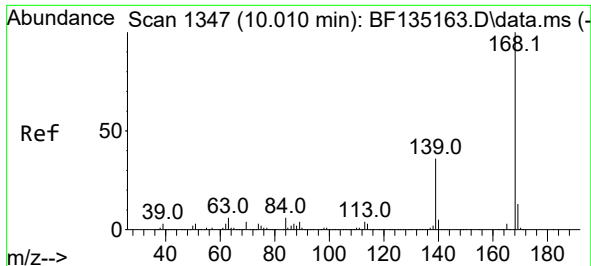
Tgt Ion:165 Resp: 16064
Ion Ratio Lower Upper
165 100
63 2.0 59.4 89.2#
89 1.5 49.8 74.8#



#52
Acenaphthene
Concen: 12.857 ng
RT: 9.822 min Scan# 1315
Delta R.T. -0.017 min
Lab File: BF135325.D
Acq: 19 Sep 2023 00:59

Tgt Ion:154 Resp: 80453
Ion Ratio Lower Upper
154 100
153 108.2 92.1 138.1
152 52.2 43.1 64.7

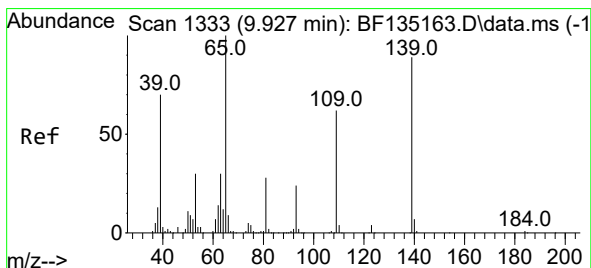
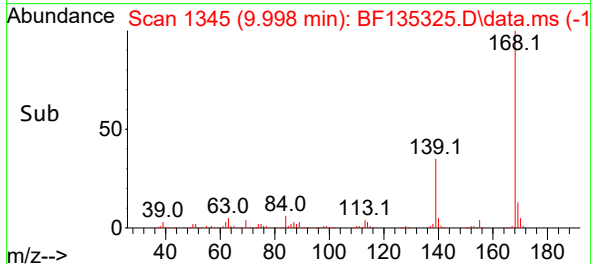
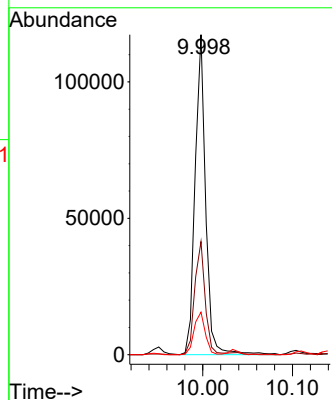
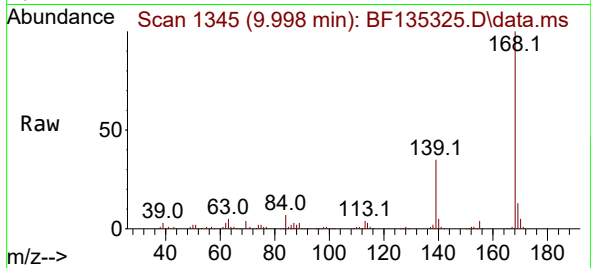




#55
Dibenzenofuran
Concen: 10.081 ng
RT: 9.998 min Scan# 1345
Delta R.T. -0.012 min
Lab File: BF135325.D
Acq: 19 Sep 2023 00:59

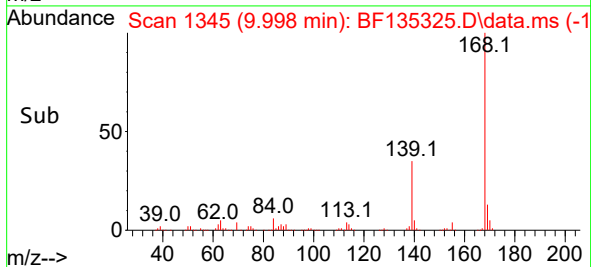
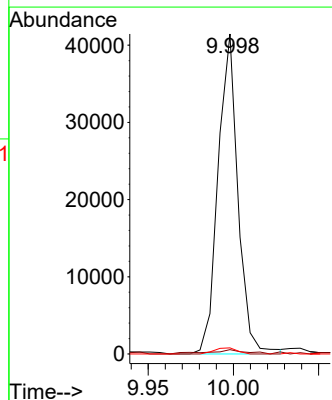
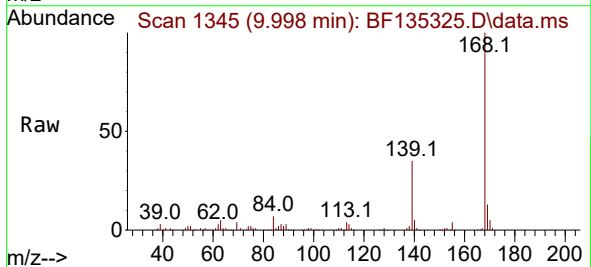
Instrument :
BNA_F
ClientSampleId :
HD-01-09132023

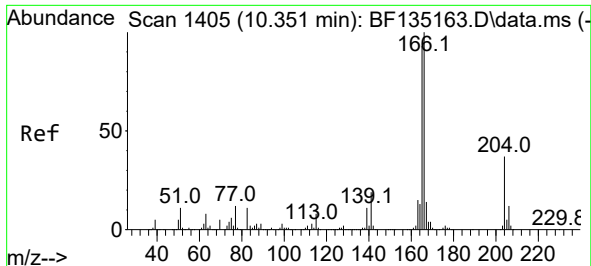
Tgt Ion:168 Resp: 96267
Ion Ratio Lower Upper
168 100
139 35.3 29.0 43.6
169 13.3 10.4 15.6



#56
4-Nitrophenol
Concen: 26.721 ng
RT: 9.998 min Scan# 1345
Delta R.T. 0.071 min
Lab File: BF135325.D
Acq: 19 Sep 2023 00:59

Tgt Ion:139 Resp: 33751
Ion Ratio Lower Upper
139 100
109 1.3 49.8 89.8#
65 1.9 92.7 132.7#

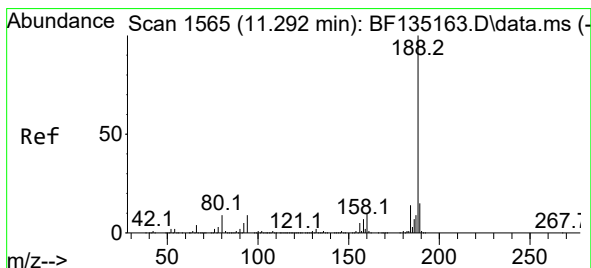
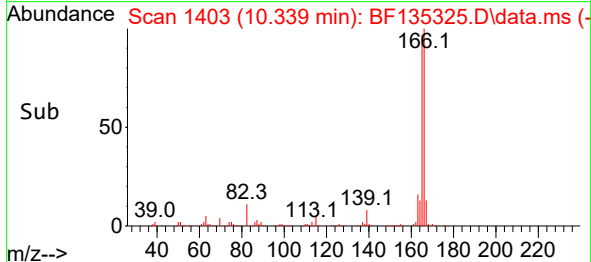
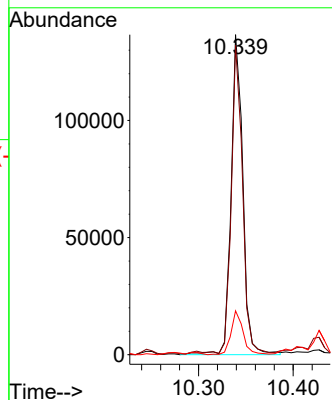
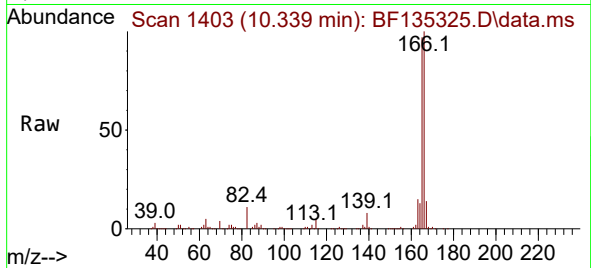




#58
Fluorene
Concen: 16.119 ng
RT: 10.339 min Scan# 1403
Delta R.T. -0.012 min
Lab File: BF135325.D
Acq: 19 Sep 2023 00:59

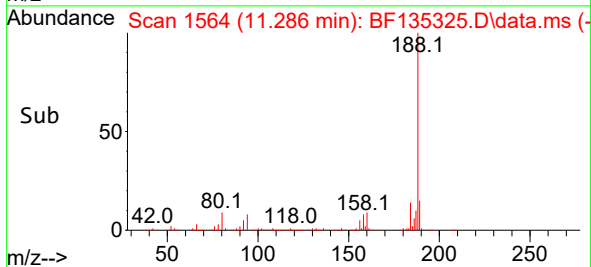
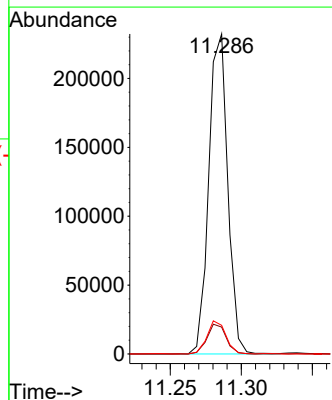
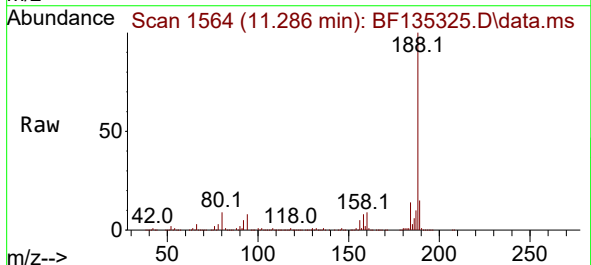
Instrument :
BNA_F
ClientSampleId :
HD-01-09132023

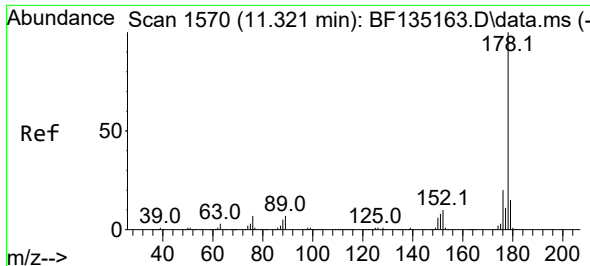
Tgt Ion:166 Resp: 118328
Ion Ratio Lower Upper
166 100
165 96.8 74.3 111.5
167 13.7 10.9 16.3



#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.286 min Scan# 1564
Delta R.T. -0.006 min
Lab File: BF135325.D
Acq: 19 Sep 2023 00:59

Tgt Ion:188 Resp: 216401
Ion Ratio Lower Upper
188 100
94 8.4 7.0 10.6
80 9.0 7.5 11.3

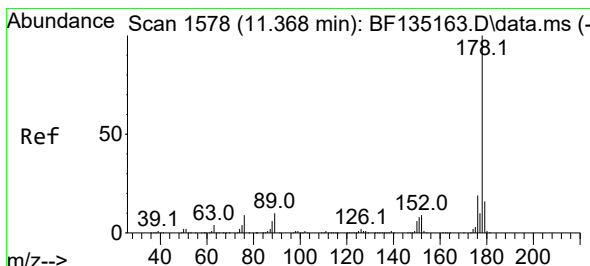
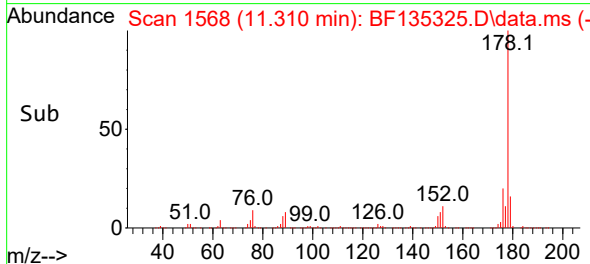
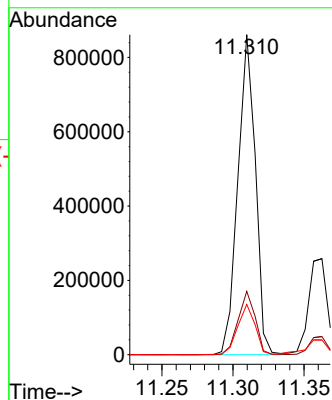
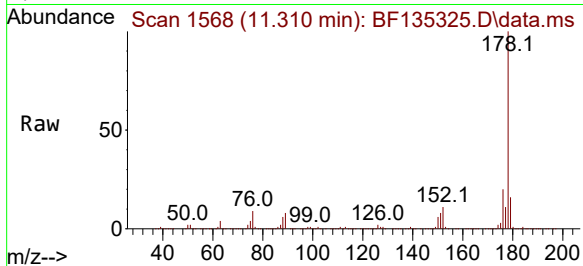




#71
Phenanthrene
Concen: 72.297 ng
RT: 11.310 min Scan# 1568
Delta R.T. -0.012 min
Lab File: BF135325.D
Acq: 19 Sep 2023 00:59

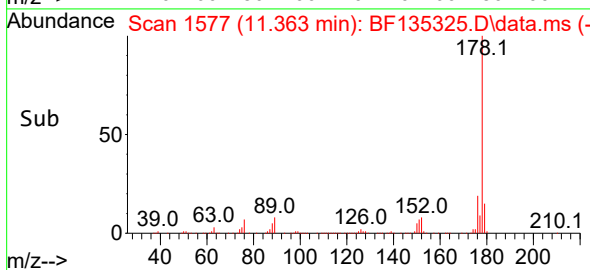
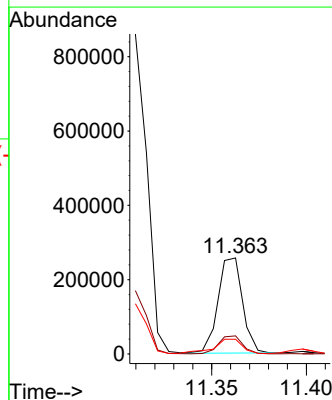
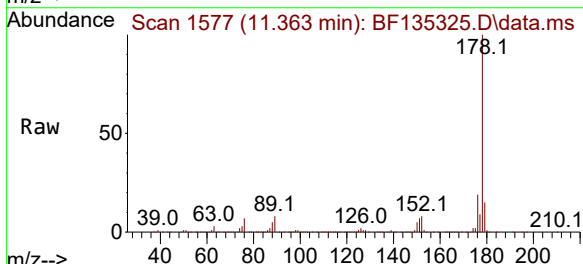
Instrument :
BNA_F
ClientSampleId :
HD-01-09132023

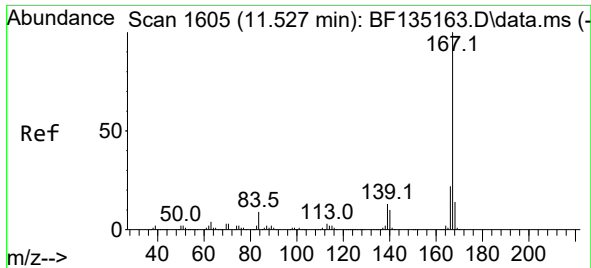
Tgt Ion:178 Resp: 739947
Ion Ratio Lower Upper
178 100
176 19.8 15.6 23.4
179 15.7 12.0 18.0



#72
Anthracene
Concen: 22.042 ng
RT: 11.363 min Scan# 1577
Delta R.T. -0.006 min
Lab File: BF135325.D
Acq: 19 Sep 2023 00:59

Tgt Ion:178 Resp: 231891
Ion Ratio Lower Upper
178 100
176 18.9 15.4 23.2
179 15.3 12.6 19.0

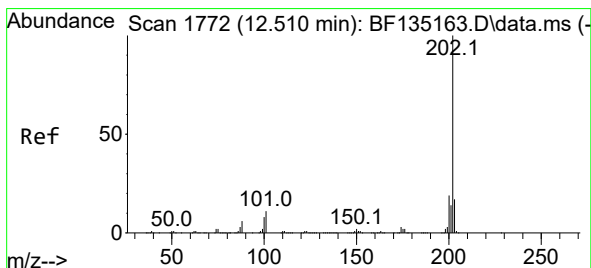
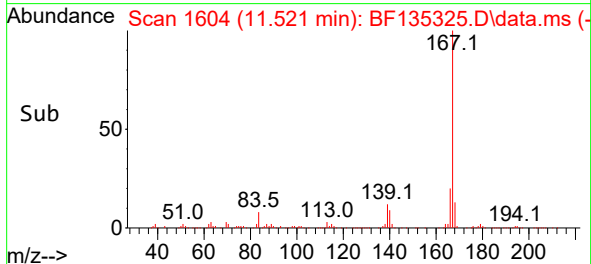
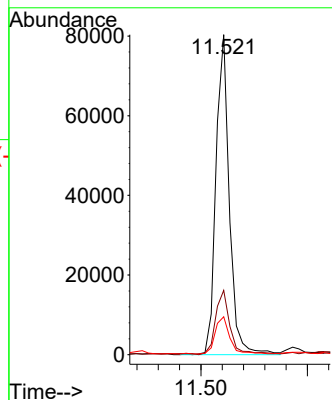
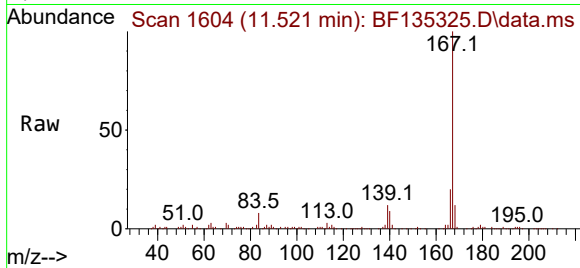




#73
 Carbazole
 Concen: 7.327 ng
 RT: 11.521 min Scan# 1604
 Delta R.T. -0.006 min
 Lab File: BF135325.D
 Acq: 19 Sep 2023 00:59

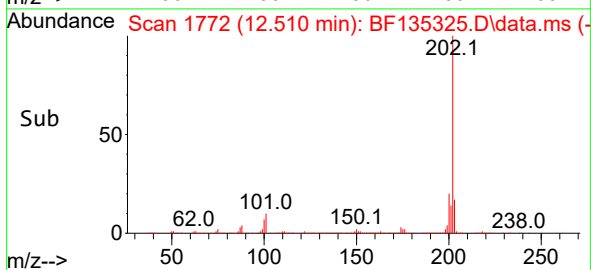
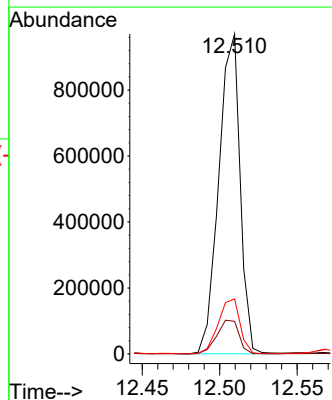
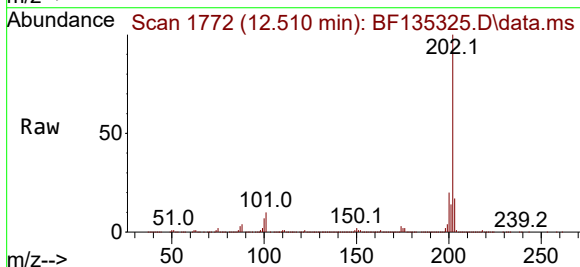
Instrument :
 BNA_F
 ClientSampleId :
 HD-01-09132023

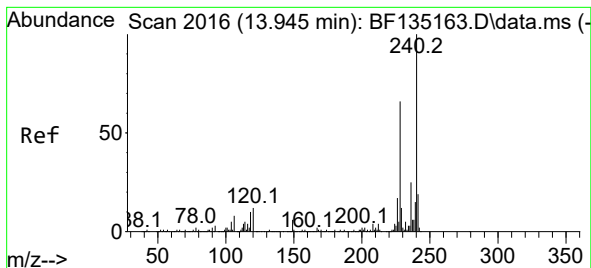
Tgt Ion:167 Resp: 70170
 Ion Ratio Lower Upper
 167 100
 166 20.1 17.4 26.0
 139 11.9 10.6 15.8



#75
 Fluoranthene
 Concen: 86.983 ng
 RT: 12.510 min Scan# 1772
 Delta R.T. 0.000 min
 Lab File: BF135325.D
 Acq: 19 Sep 2023 00:59

Tgt Ion:202 Resp: 927641
 Ion Ratio Lower Upper
 202 100
 101 10.2 0.0 31.3
 203 17.2 0.0 37.4





#76

Chrysene-d12

Concen: 20.000 ng

RT: 13.945 min Scan# 2016

Delta R.T. 0.000 min

Lab File: BF135325.D

Acq: 19 Sep 2023 00:59

Instrument :

BNA_F

ClientSampleId :

HD-01-09132023

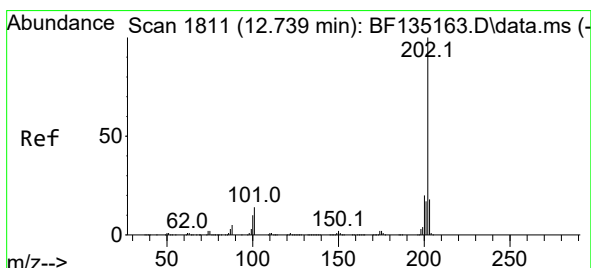
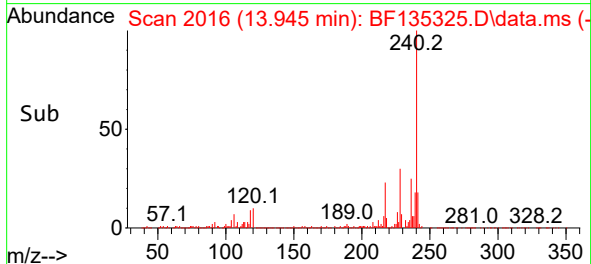
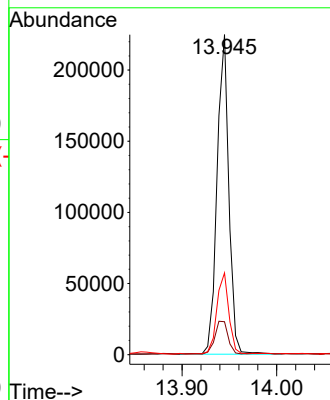
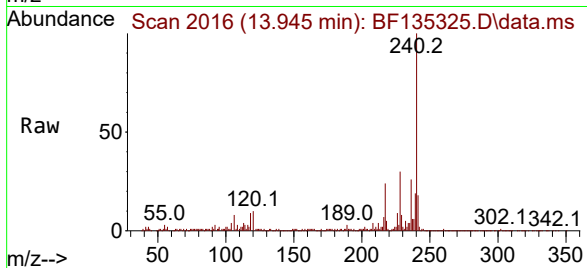
Tgt Ion:240 Resp: 194003

Ion Ratio Lower Upper

240 100

120 10.3 9.4 14.2

236 25.6 19.8 29.8



#78

Pyrene

Concen: 45.383 ng

RT: 12.739 min Scan# 1811

Delta R.T. 0.000 min

Lab File: BF135325.D

Acq: 19 Sep 2023 00:59

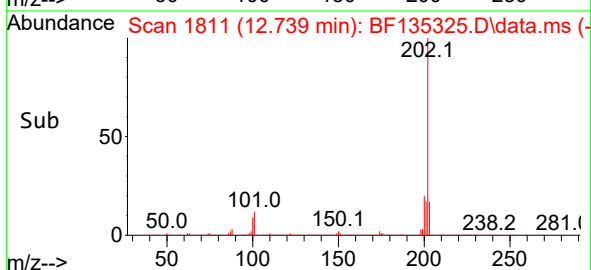
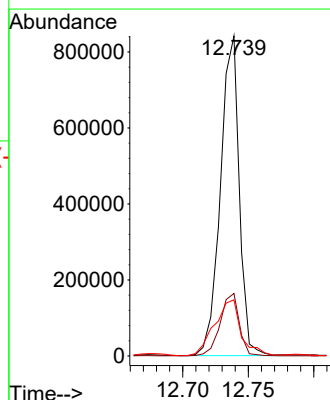
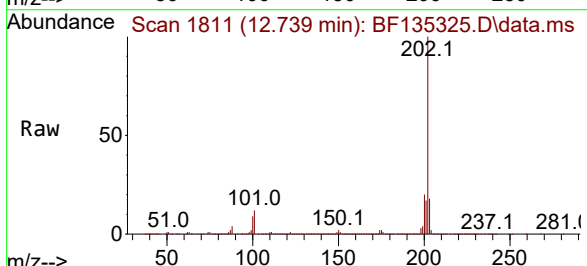
Tgt Ion:202 Resp: 838249

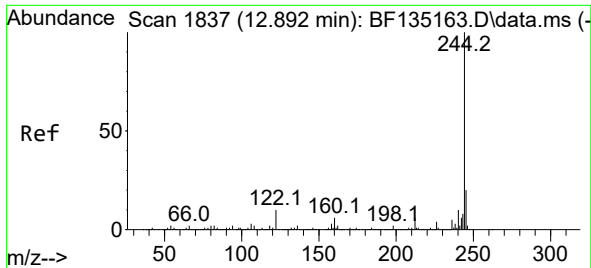
Ion Ratio Lower Upper

202 100

200 19.6 16.2 24.2

203 17.6 14.2 21.4

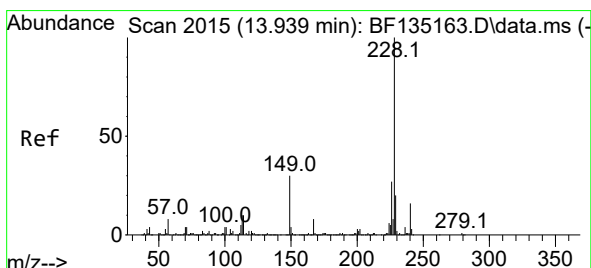
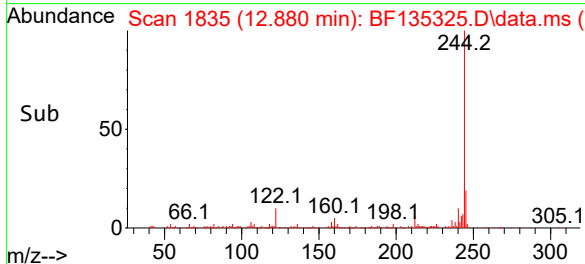
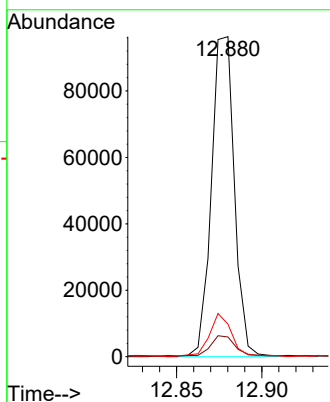
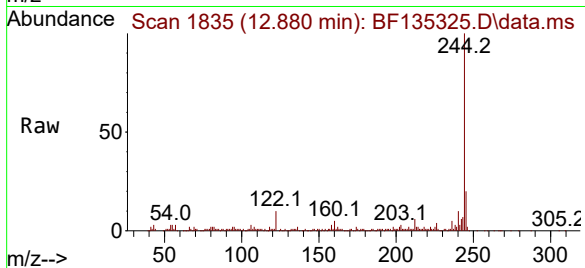




#79
 Terphenyl-d14
 Concen: 7.240 ng
 RT: 12.880 min Scan# 11
 Delta R.T. -0.012 min
 Lab File: BF135325.D
 Acq: 19 Sep 2023 00:59

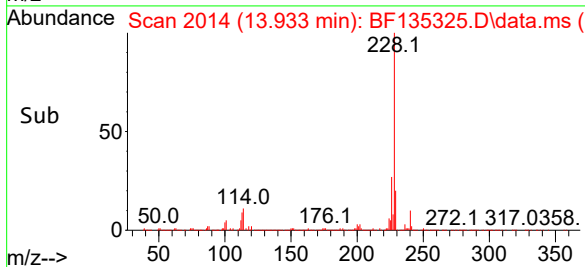
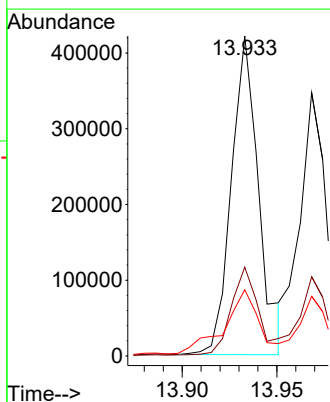
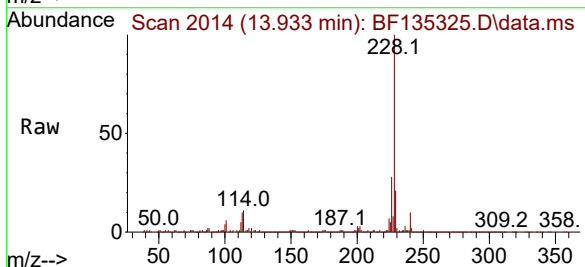
Instrument :
 BNA_F
 ClientSampleId :
 HD-01-09132023

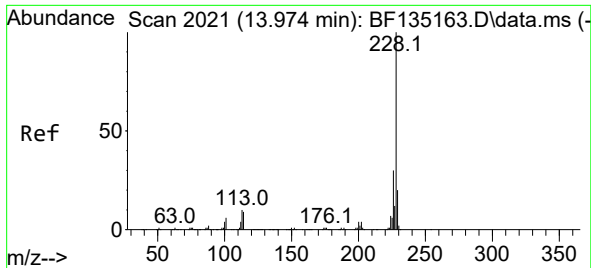
Tgt Ion:244 Resp: 90602
 Ion Ratio Lower Upper
 244 100
 212 6.1 5.1 7.7
 122 10.1 7.9 11.9



#81
 Benzo(a)anthracene
 Concen: 33.617 ng
 RT: 13.933 min Scan# 2014
 Delta R.T. -0.006 min
 Lab File: BF135325.D
 Acq: 19 Sep 2023 00:59

Tgt Ion:228 Resp: 421125
 Ion Ratio Lower Upper
 228 100
 226 27.8 21.7 32.5
 229 20.7 15.8 23.8

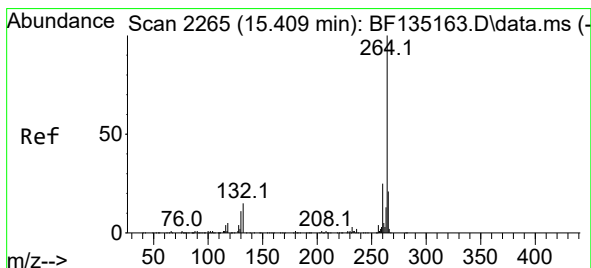
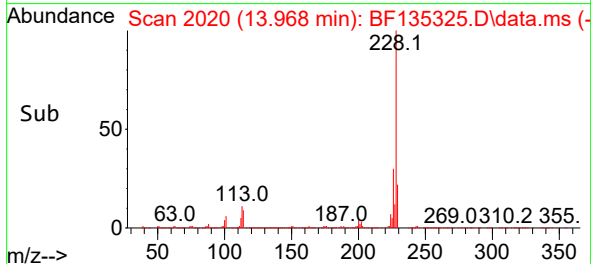
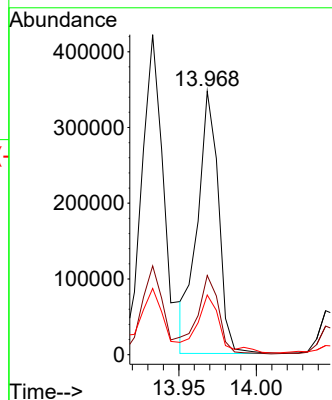
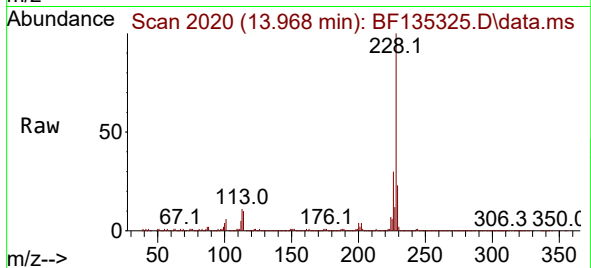




#83
Chrysene
Concen: 26.359 ng
RT: 13.968 min Scan# 2021
Delta R.T. -0.006 min
Lab File: BF135325.D
Acq: 19 Sep 2023 00:59

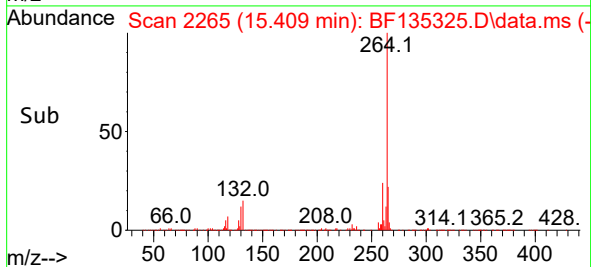
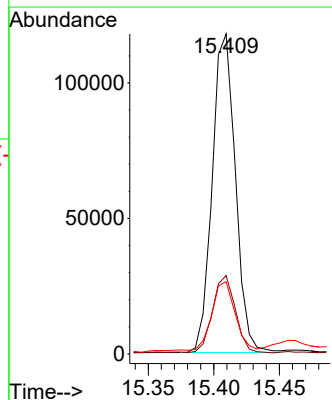
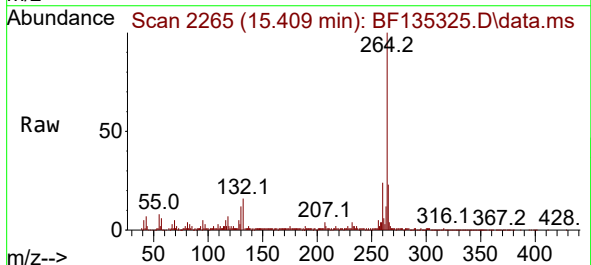
Instrument :
BNA_F
ClientSampleId :
HD-01-09132023

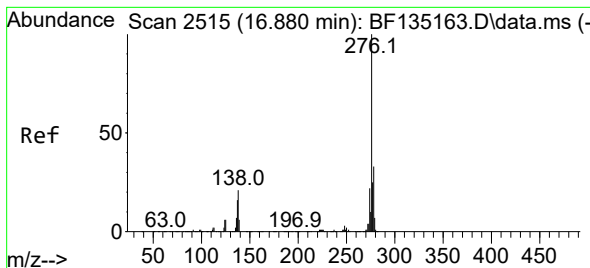
Tgt Ion:228 Resp: 328307
Ion Ratio Lower Upper
228 100
226 30.1 24.3 36.5
229 22.7 16.0 24.0



#86
Perylene-d12
Concen: 20.000 ng
RT: 15.409 min Scan# 2265
Delta R.T. 0.000 min
Lab File: BF135325.D
Acq: 19 Sep 2023 00:59

Tgt Ion:264 Resp: 144507
Ion Ratio Lower Upper
264 100
260 24.5 19.8 29.6
265 22.6 17.0 25.4





#87

Indeno(1,2,3-cd)pyrene

Concen: 10.258 ng

RT: 16.880 min Scan# 21

Delta R.T. 0.000 min

Lab File: BF135325.D

Acq: 19 Sep 2023 00:59

Instrument :

BNA_F

ClientSampleId :

HD-01-09132023

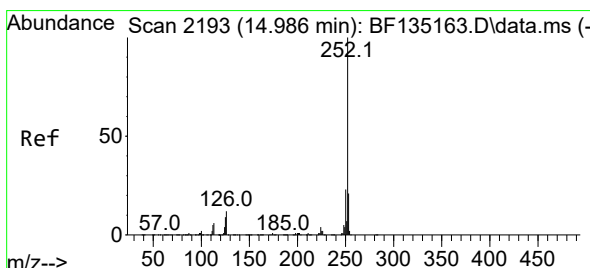
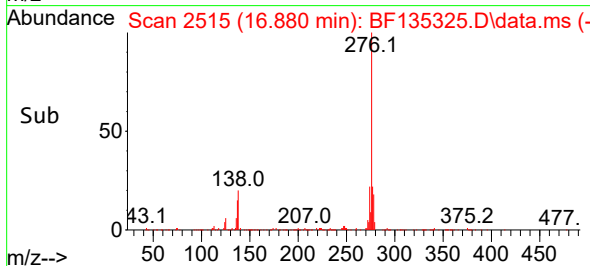
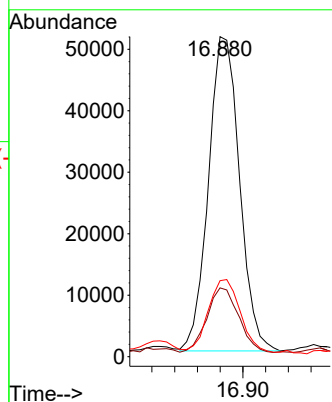
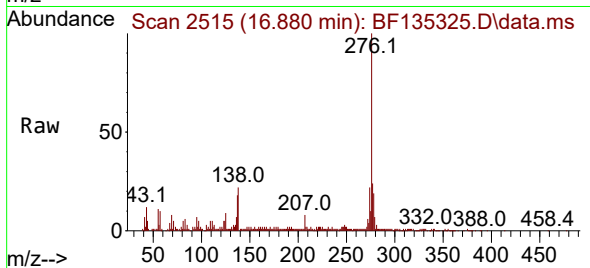
Tgt Ion:276 Resp: 97196

Ion Ratio Lower Upper

276 100

138 21.2 19.2 28.8

277 24.1 19.7 29.5



#88

Benzo(b)fluoranthene

Concen: 52.181 ng

RT: 14.986 min Scan# 2193

Delta R.T. 0.000 min

Lab File: BF135325.D

Acq: 19 Sep 2023 00:59

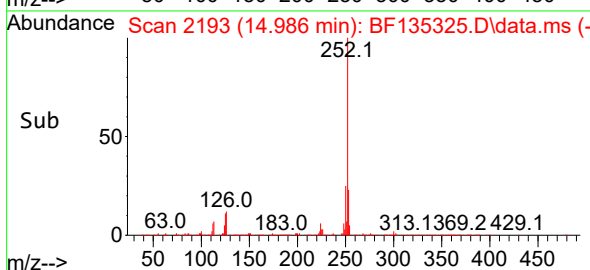
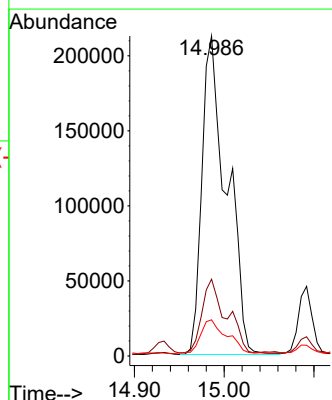
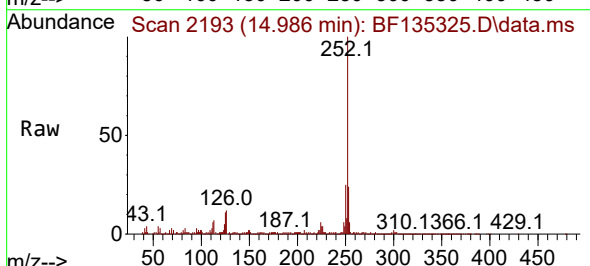
Tgt Ion:252 Resp: 408194

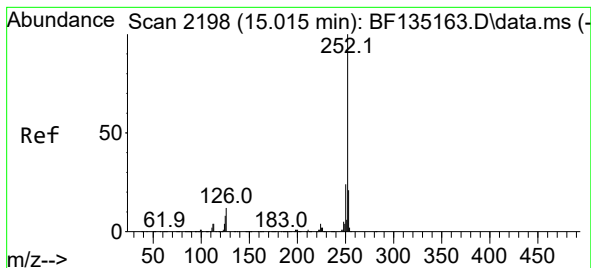
Ion Ratio Lower Upper

252 100

253 24.0 17.2 25.8

125 11.3 7.1 10.7#





#89

Benzo(k)fluoranthene

Concen: 52.824 ng

RT: 14.986 min Scan# 2198

Delta R.T. -0.029 min

Lab File: BF135325.D

Acq: 19 Sep 2023 00:59

Instrument :

BNA_F

ClientSampleId :

HD-01-09132023

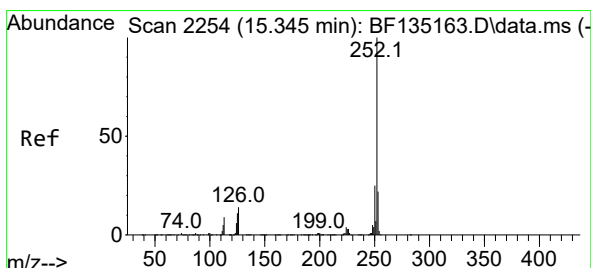
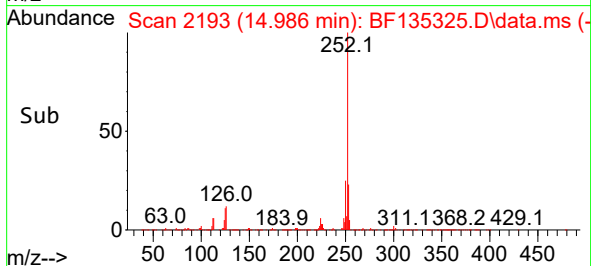
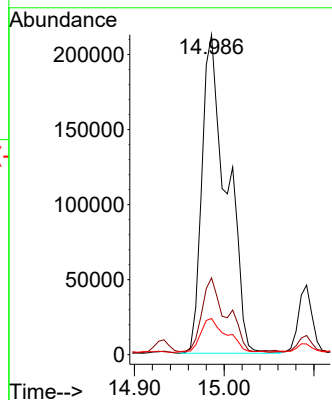
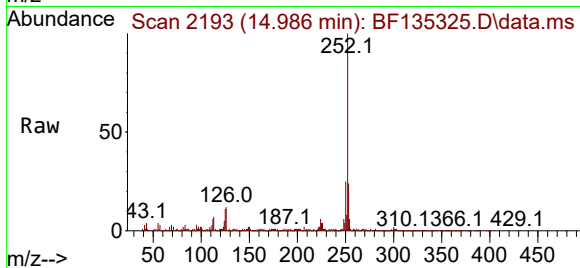
Tgt Ion:252 Resp: 408194

Ion Ratio Lower Upper

252 100

253 24.0 17.4 26.0

125 11.3 7.2 10.8#



#90

Benzo(a)pyrene

Concen: 28.074 ng

RT: 15.345 min Scan# 2254

Delta R.T. 0.000 min

Lab File: BF135325.D

Acq: 19 Sep 2023 00:59

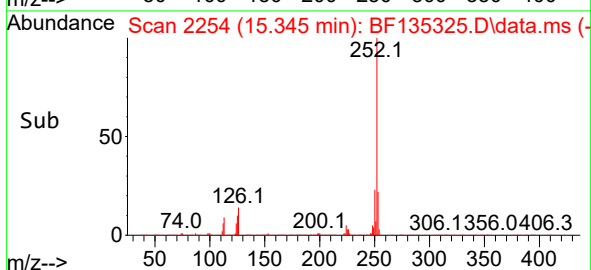
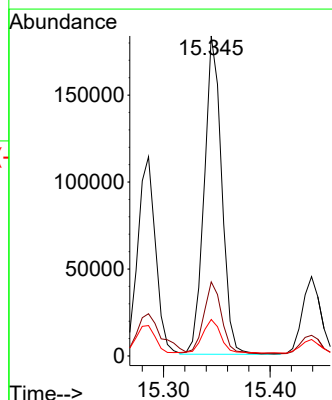
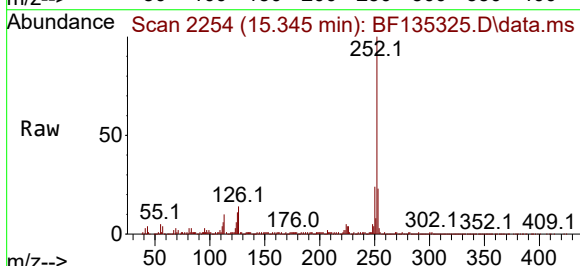
Tgt Ion:252 Resp: 209431

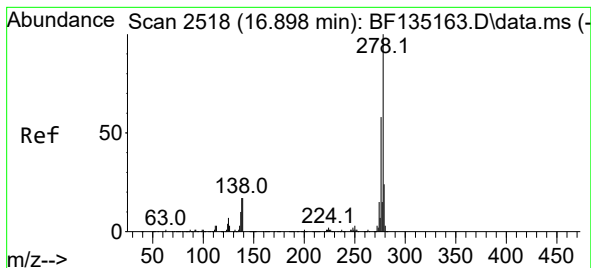
Ion Ratio Lower Upper

252 100

253 23.2 17.5 26.3

125 11.4 9.2 13.8





#91

Dibenzo(a,h)anthracene

Concen: 2.806 ng

RT: 17.062 min Scan# 2518

Delta R.T. 0.165 min

Lab File: BF135325.D

Acq: 19 Sep 2023 00:59

Instrument :

BNA_F

ClientSampleId :

HD-01-09132023

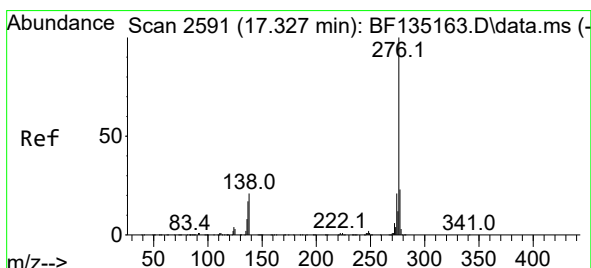
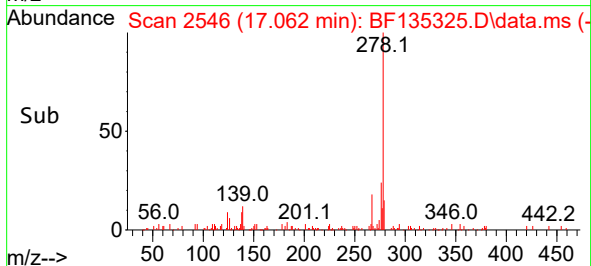
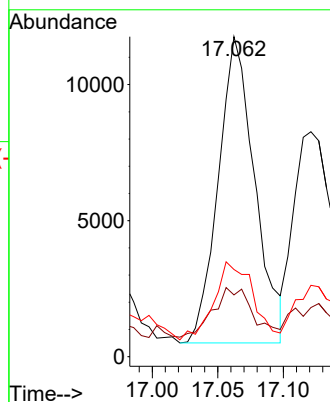
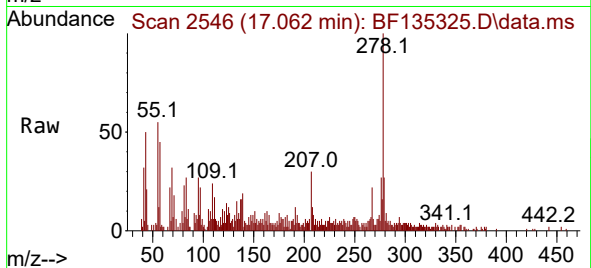
Tgt Ion:278 Resp: 21753

Ion Ratio Lower Upper

278 100

139 19.3 13.4 20.0

279 27.2 19.0 28.6



#92

Benzo(g,h,i)perylene

Concen: 12.156 ng

RT: 17.333 min Scan# 2592

Delta R.T. 0.006 min

Lab File: BF135325.D

Acq: 19 Sep 2023 00:59

Tgt Ion:276 Resp: 98421

Ion Ratio Lower Upper

276 100

277 23.1 18.8 28.2

138 20.6 16.9 25.3

