

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF092923\
 Data File : BF135520.D
 Acq On : 29 Sep 2023 17:15
 Operator : CG\JU
 Sample : 04636-01
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 OR-03-09272023

Quant Time: Sep 30 00:23:19 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF091123.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Sat Sep 30 00:12:20 2023
 Response via : Initial Calibration

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

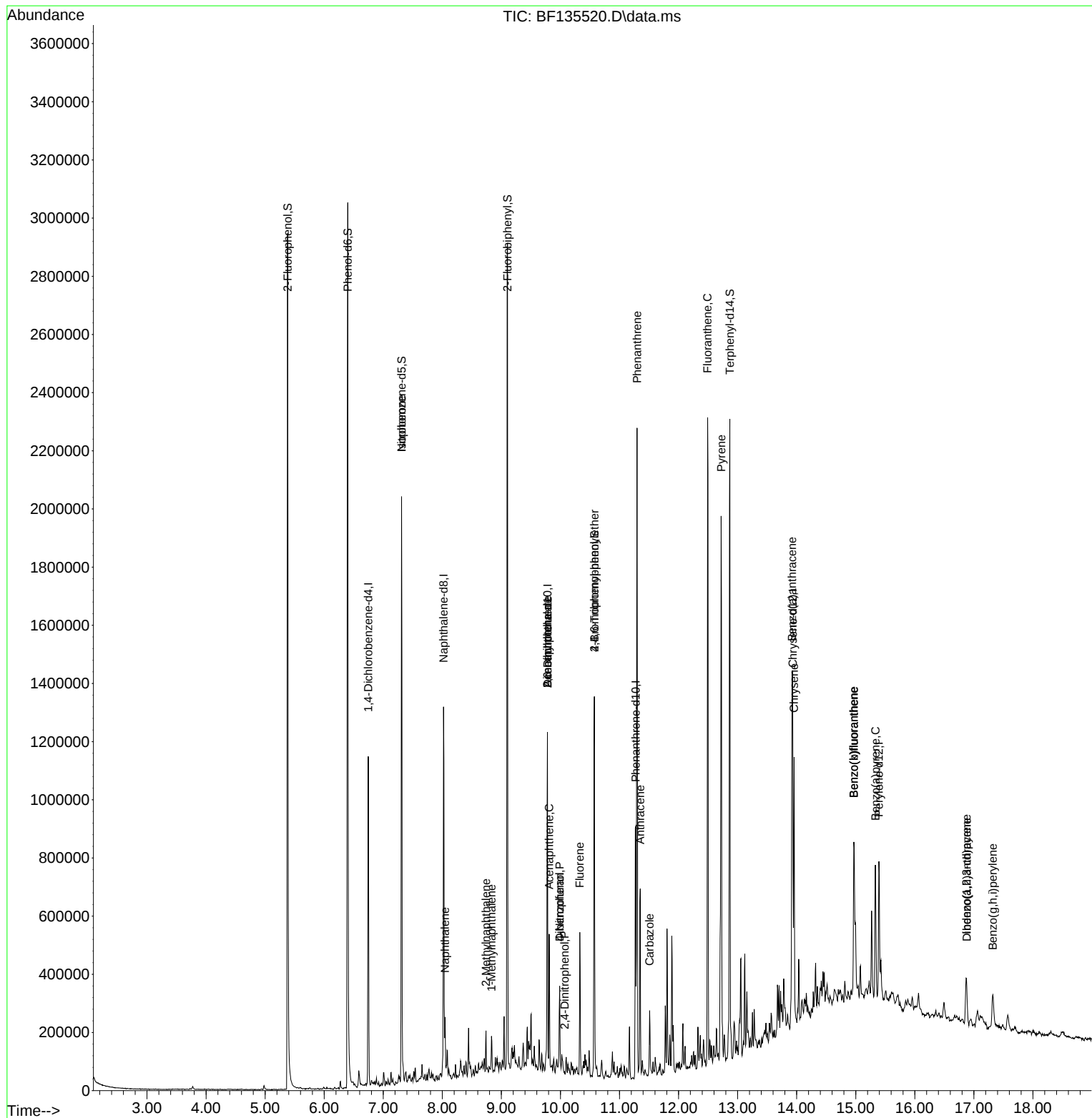
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.745	152	154928	20.000	ng	0.00
21) Naphthalene-d8	8.022	136	541929	20.000	ng	# 0.00
39) Acenaphthene-d10	9.780	164	215681	20.000	ng	0.00
64) Phenanthrene-d10	11.274	188	343749	20.000	ng	0.00
76) Chrysene-d12	13.933	240	273836	20.000	ng	0.00
86) Perylene-d12	15.392	264	222784	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.381	112	823229	86.423	ng	0.00
7) Phenol-d6	6.398	99	997445	82.350	ng	0.00
23) Nitrobenzene-d5	7.310	82	600925	60.244	ng	-0.01
42) 2,4,6-Tribromophenol	10.575	330	138598	64.664	ng	0.00
45) 2-Fluorobiphenyl	9.104	172	946311	66.196	ng	0.00
79) Terphenyl-d14	12.868	244	763391	43.216	ng	0.00
Target Compounds						Qvalue
25) Isophorone	7.310	82	600925	32.808	ng	# 65
31) Naphthalene	8.045	128	69901	2.655	ng	98
37) 2-Methylnaphthalene	8.739	142	38473	2.174	ng	99
38) 1-Methylnaphthalene	8.833	142	34067	2.056	ng	100
50) Dimethylphthalate	9.780	163	43177	2.961	ng	# 1
51) 2,6-Dinitrotoluene	9.780	165	29652	9.282	ng	# 17
52) Acenaphthene	9.810	154	90896	7.699	ng	95
54) 2,4-Dinitrophenol	10.075	184	199	6.349	ng	# 86
55) Dibenzofuran	9.986	168	94011	5.218	ng	99
56) 4-Nitrophenol	9.986	139	34728	14.572	ng	# 6
58) Fluorene	10.327	166	130948	9.454	ng	98
67) 4-Bromophenyl-phenylether	10.575	248	8748	2.559	ng	# 1
71) Phenanthrene	11.298	178	775185	47.681	ng	99
72) Anthracene	11.351	178	250192	14.971	ng	98
73) Carbazole	11.510	167	84465	5.552	ng	98
75) Fluoranthene	12.492	202	940717	55.531	ng	96
78) Pyrene	12.721	202	814742	31.251	ng	99
81) Benzo(a)anthracene	13.921	228	379725	21.475	ng	99
83) Chrysene	13.957	228	328439	18.682	ng	98
87) Indeno(1,2,3-cd)pyrene	16.874	276	106844	7.314	ng	99
88) Benzo(b)fluoranthene	14.968	252	410914	34.072	ng	# 94
89) Benzo(k)fluoranthene	14.968	252	410914	34.492	ng	# 94
90) Benzo(a)pyrene	15.333	252	218504	18.999	ng	98
91) Dibenzo(a,h)anthracene	16.880	278	26543	2.221	ng	# 85
92) Benzo(g,h,i)perylene	17.321	276	99188	7.946	ng	95

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

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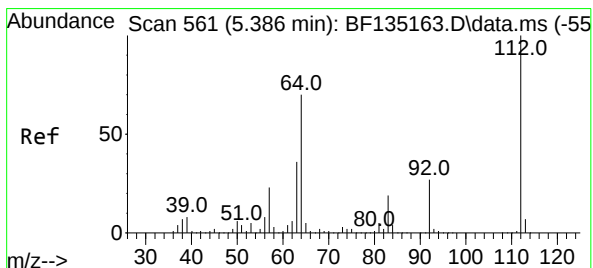
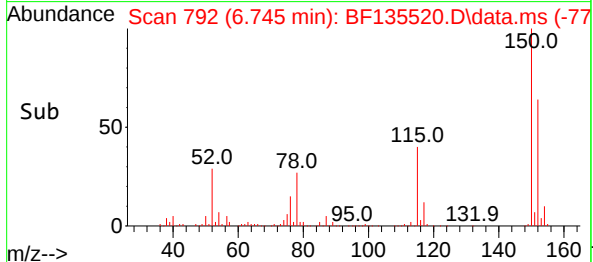
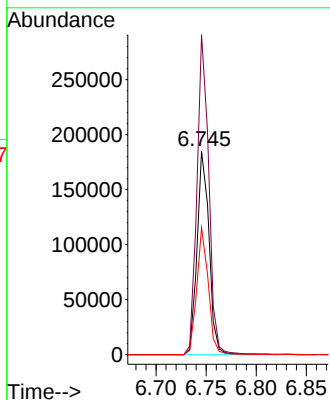
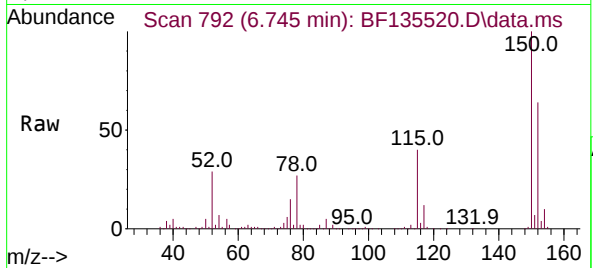




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.745 min Scan# 795
Delta R.T. -0.006 min
Lab File: BF135520.D
Acq: 29 Sep 2023 17:15

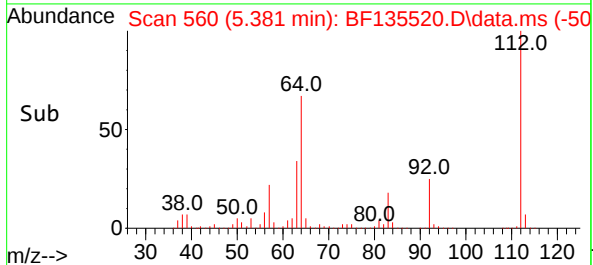
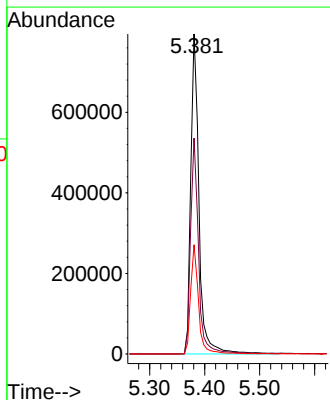
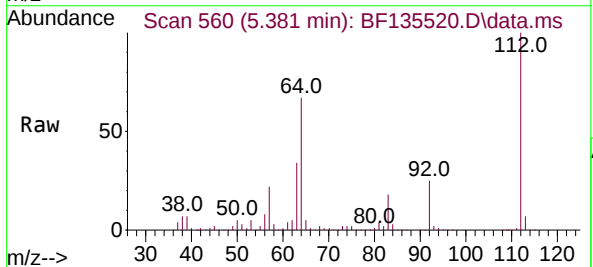
Instrument :
BNA_F
ClientSampleId :
OR-03-09272023

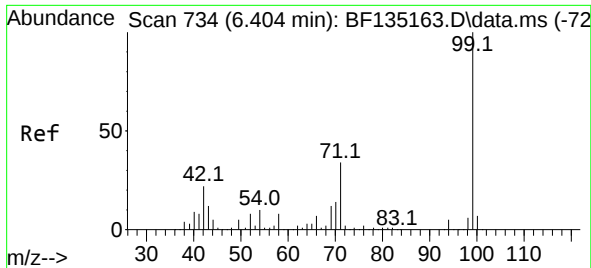
Tgt Ion:152 Resp: 154928
Ion Ratio Lower Upper
152 100
150 157.2 127.8 191.6
115 62.4 49.8 74.8



#5
2-Fluorophenol
Concen: 86.423 ng
RT: 5.381 min Scan# 560
Delta R.T. -0.000 min
Lab File: BF135520.D
Acq: 29 Sep 2023 17:15

Tgt Ion:112 Resp: 823229
Ion Ratio Lower Upper
112 100
64 67.5 55.9 83.9
63 34.2 29.0 43.6

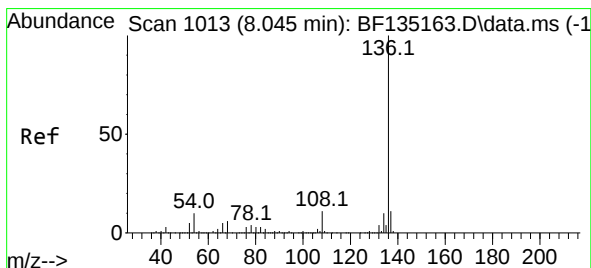
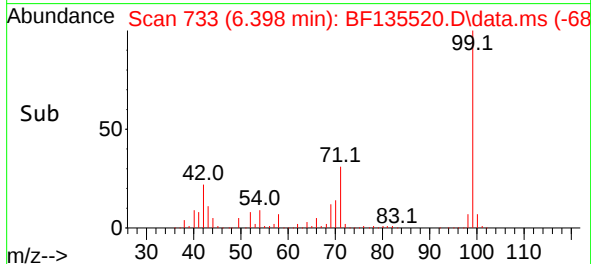
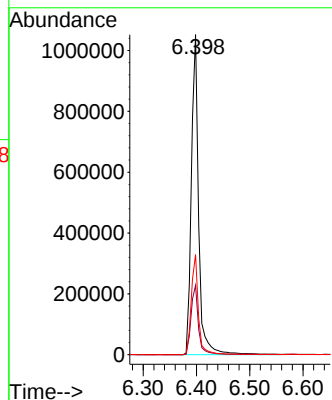
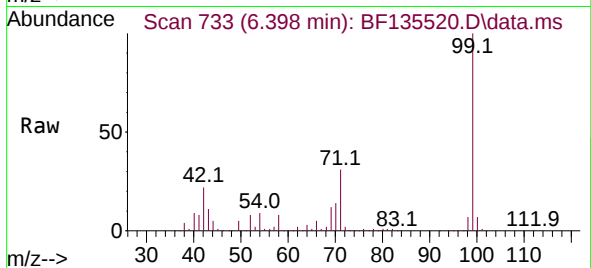




#7
Phenol-d6
Concen: 82.350 ng
RT: 6.398 min Scan# 71
Delta R.T. -0.006 min
Lab File: BF135520.D
Acq: 29 Sep 2023 17:15

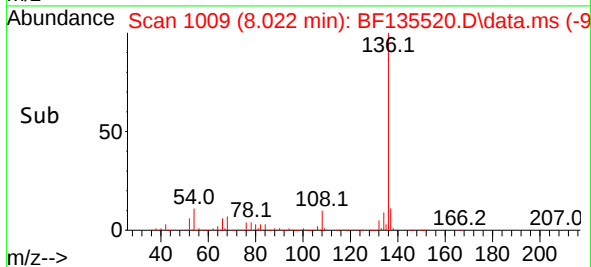
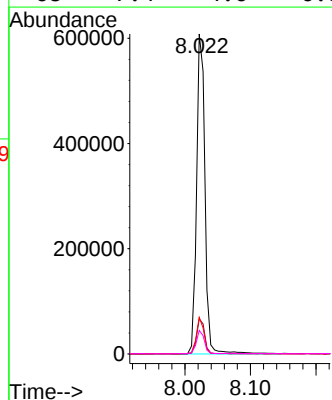
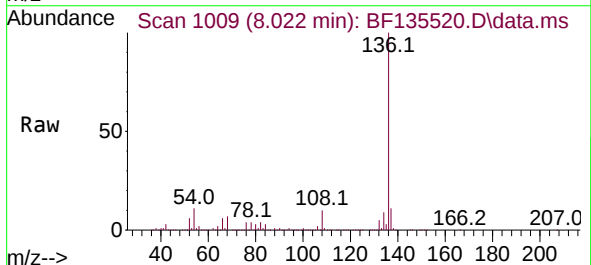
Instrument :
BNA_F
ClientSampleId :
OR-03-09272023

Tgt Ion: 99 Resp: 997445
Ion Ratio Lower Upper
99 100
42 21.6 17.9 26.9
71 31.3 27.0 40.6



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.022 min Scan# 1009
Delta R.T. -0.006 min
Lab File: BF135520.D
Acq: 29 Sep 2023 17:15

Tgt Ion: 136 Resp: 541929
Ion Ratio Lower Upper
136 100
137 11.0 8.8 13.2
54 11.4 7.7 11.5
68 7.4 4.6 6.8

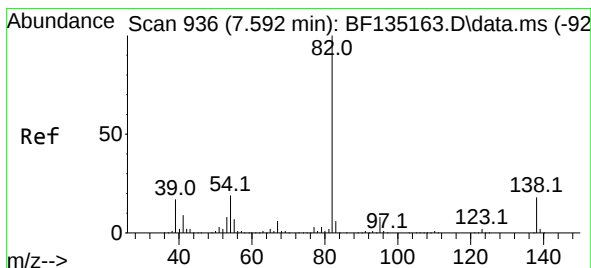
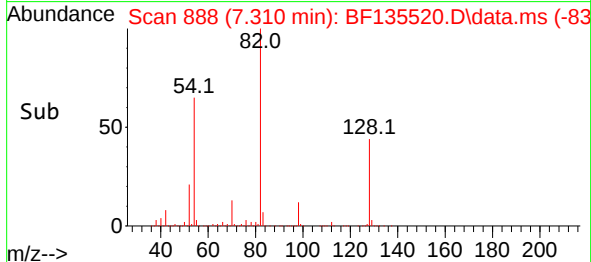
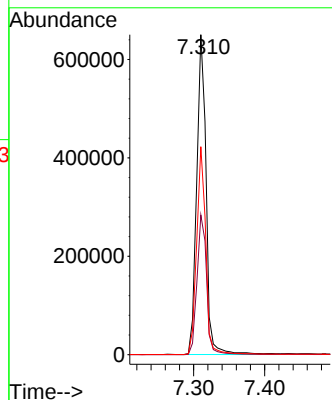
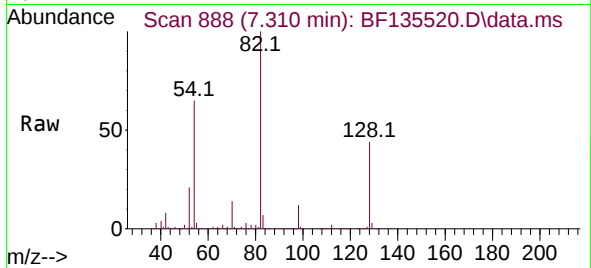




#23
Nitrobenzene-d5
Concen: 60.244 ng
RT: 7.310 min Scan# 888
Delta R.T. -0.012 min
Lab File: BF135520.D
Acq: 29 Sep 2023 17:15

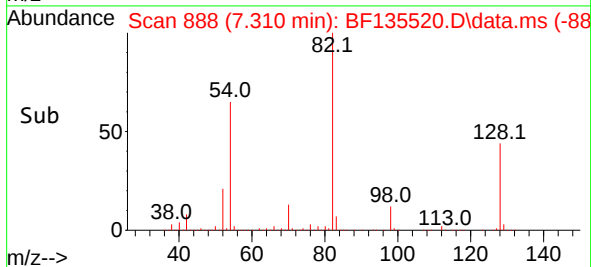
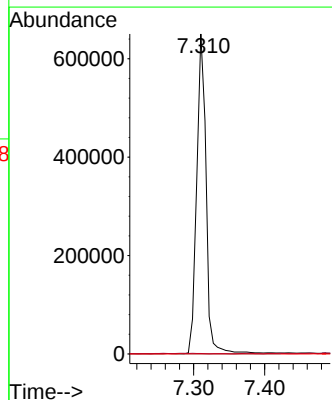
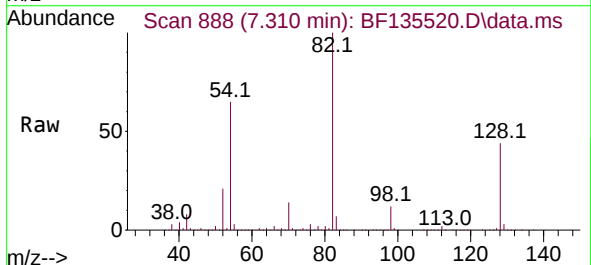
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ClientSampleId :
OR-03-09272023

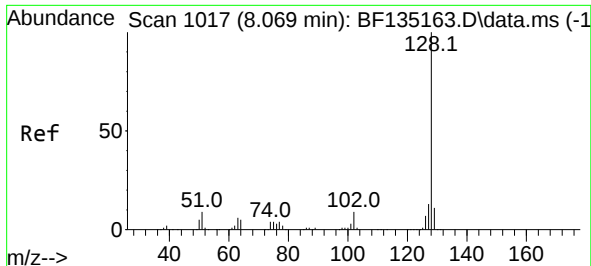
Tgt Ion: 82 Resp: 600925
Ion Ratio Lower Upper
82 100
128 43.6 35.8 53.6
54 65.0 50.6 76.0



#25
Isophorone
Concen: 32.808 ng
RT: 7.310 min Scan# 888
Delta R.T. -0.265 min
Lab File: BF135520.D
Acq: 29 Sep 2023 17:15

Tgt Ion: 82 Resp: 600925
Ion Ratio Lower Upper
82 100
95 0.1 6.0 9.0#
138 0.0 14.5 21.7#

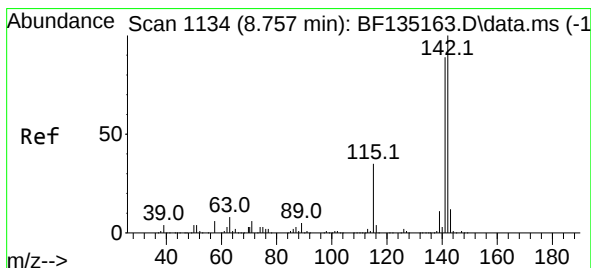
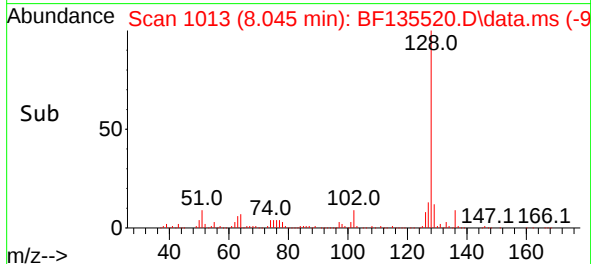
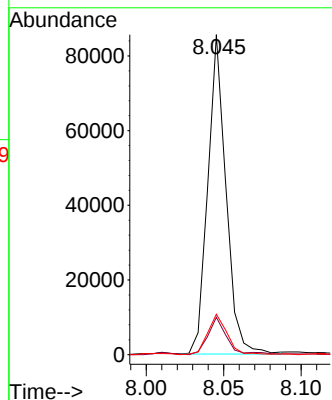
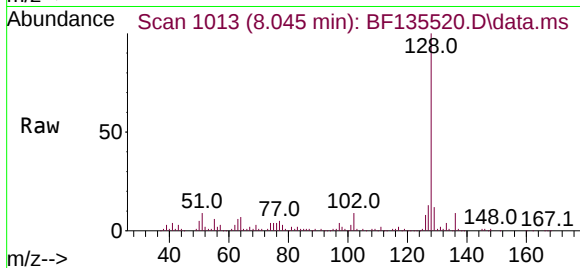




#31
Naphthalene
Concen: 2.655 ng
RT: 8.045 min Scan# 1101
Delta R.T. -0.006 min
Lab File: BF135520.D
Acq: 29 Sep 2023 17:15

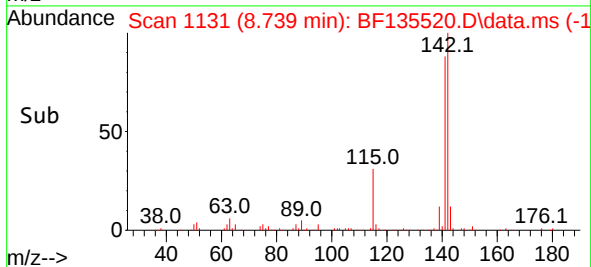
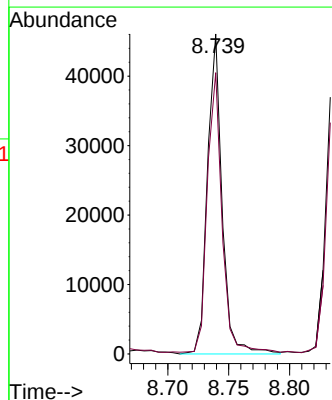
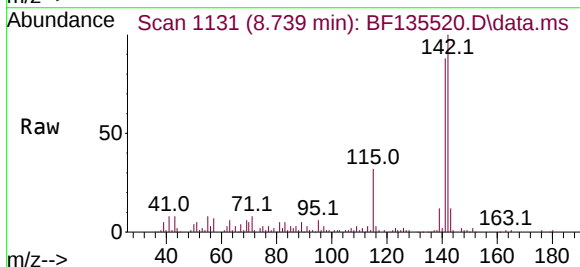
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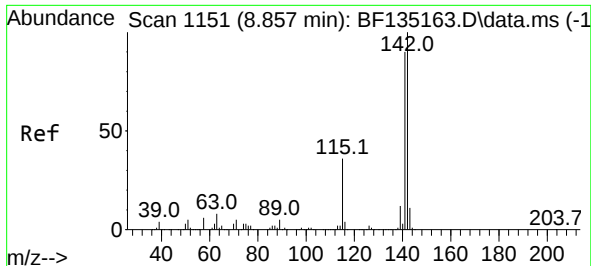
Tgt Ion:128 Resp: 69901
Ion Ratio Lower Upper
128 100
129 11.7 8.7 13.1
127 12.7 10.7 16.1



#37
2-Methylnaphthalene
Concen: 2.174 ng
RT: 8.739 min Scan# 1131
Delta R.T. -0.000 min
Lab File: BF135520.D
Acq: 29 Sep 2023 17:15

Tgt Ion:142 Resp: 38473
Ion Ratio Lower Upper
142 100
141 87.9 71.0 106.6





#38

1-Methylnaphthalene

Concen: 2.056 ng

RT: 8.833 min Scan# 1151

Delta R.T. -0.006 min

Lab File: BF135520.D

Acq: 29 Sep 2023 17:15

Instrument :

BNA_F

ClientSampleId :

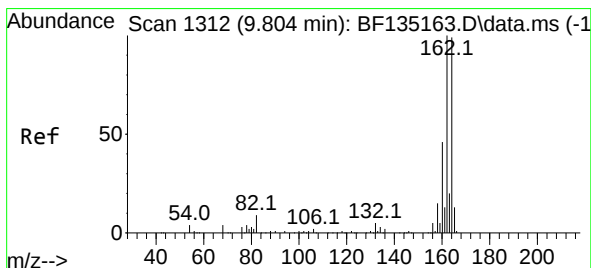
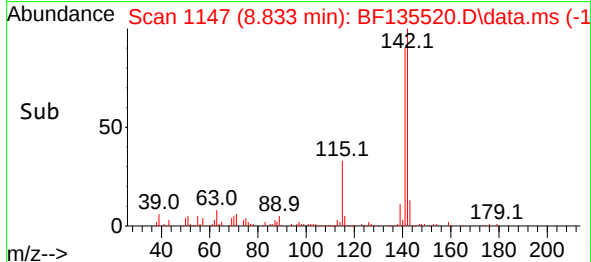
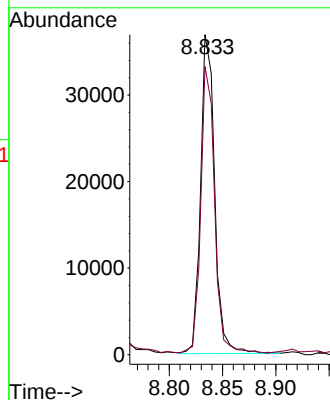
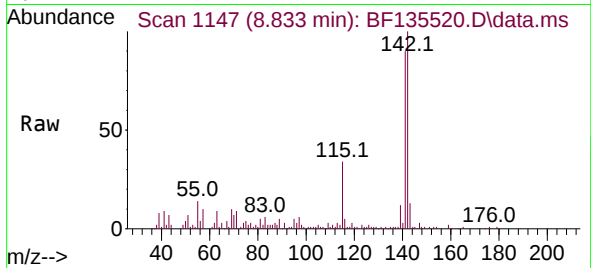
OR-03-09272023

Tgt Ion:142 Resp: 34067

Ion Ratio Lower Upper

142 100

141 90.1 72.4 108.6



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.780 min Scan# 1308

Delta R.T. -0.006 min

Lab File: BF135520.D

Acq: 29 Sep 2023 17:15

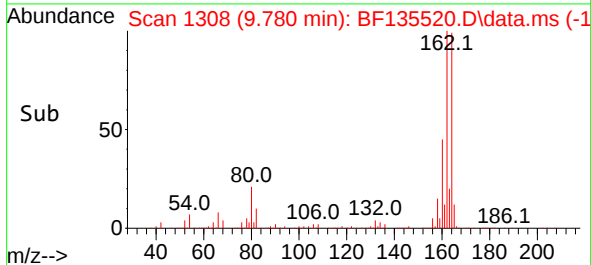
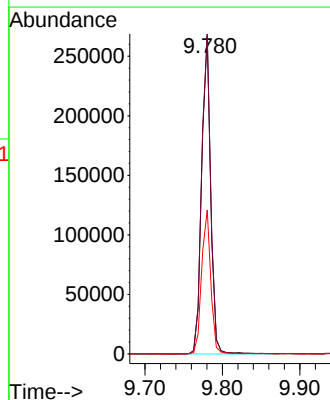
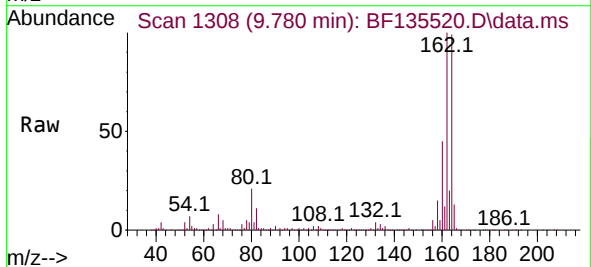
Tgt Ion:164 Resp: 215681

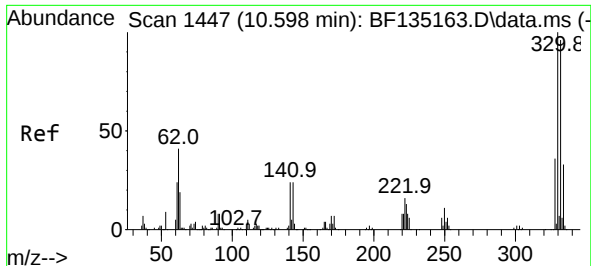
Ion Ratio Lower Upper

164 100

162 100.5 81.0 121.4

160 45.2 37.0 55.4

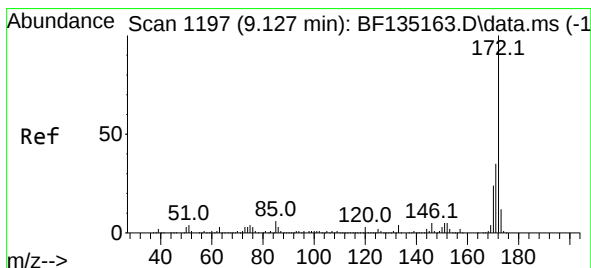
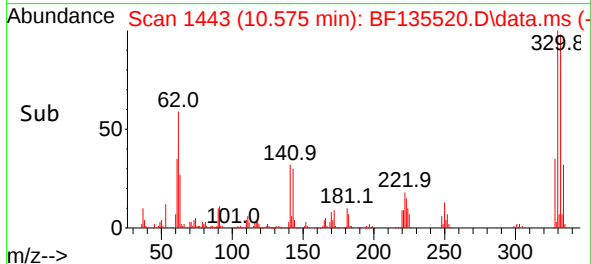
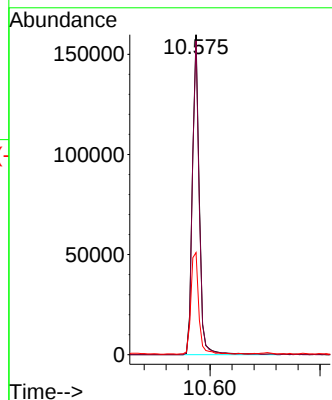
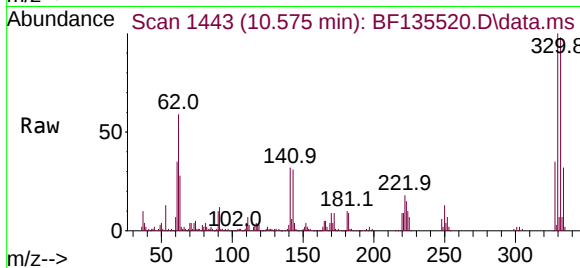




#42
2,4,6-Tribromophenol
Concen: 64.664 ng
RT: 10.575 min Scan# 1443
Delta R.T. -0.006 min
Lab File: BF135520.D
Acq: 29 Sep 2023 17:15

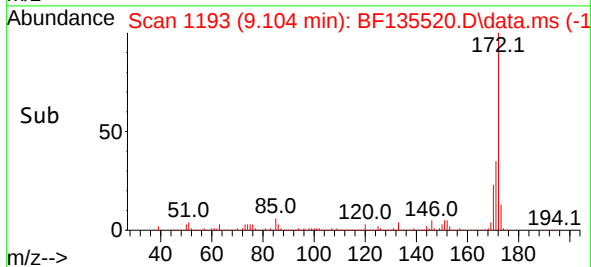
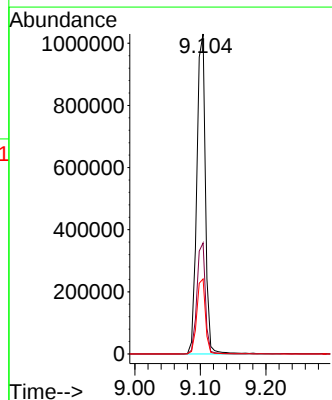
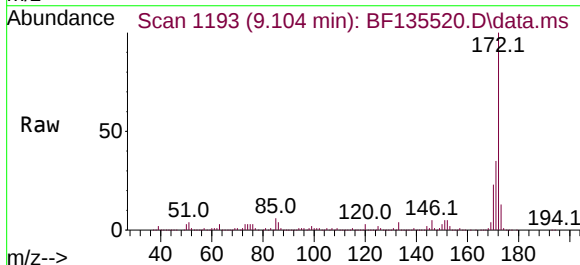
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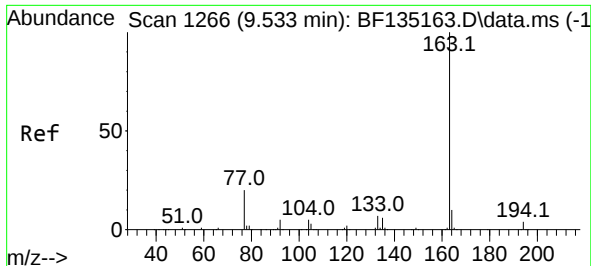
Tgt Ion:330 Resp: 138598
Ion Ratio Lower Upper
330 100
332 96.8 77.3 115.9
141 36.5 25.8 38.8



#45
2-Fluorobiphenyl
Concen: 66.196 ng
RT: 9.104 min Scan# 1193
Delta R.T. -0.006 min
Lab File: BF135520.D
Acq: 29 Sep 2023 17:15

Tgt Ion:172 Resp: 946311
Ion Ratio Lower Upper
172 100
171 34.7 28.4 42.6
170 23.4 19.0 28.4

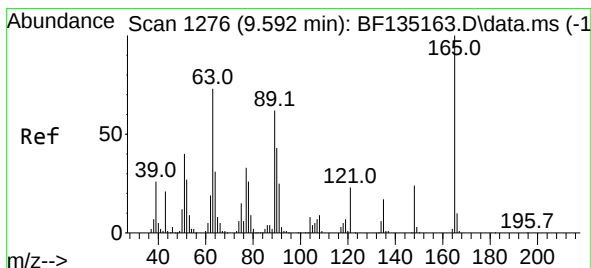
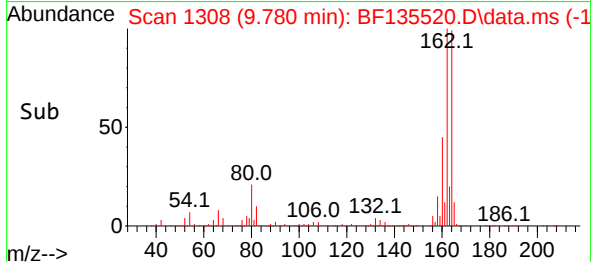
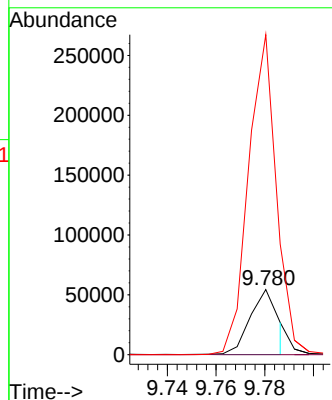
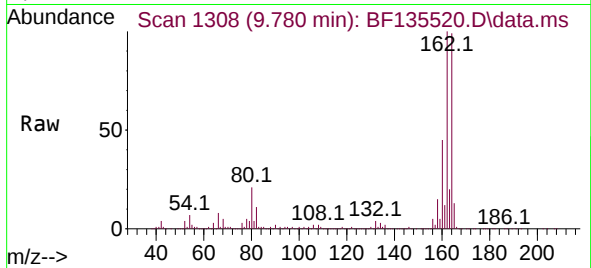




#50
Dimethylphthalate
Concen: 2.961 ng
RT: 9.780 min Scan# 11
Delta R.T. 0.265 min
Lab File: BF135520.D
Acq: 29 Sep 2023 17:15

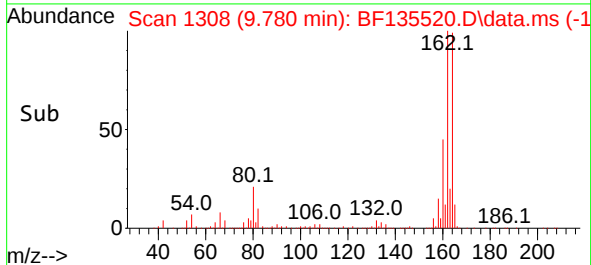
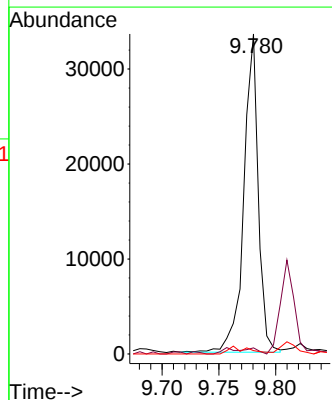
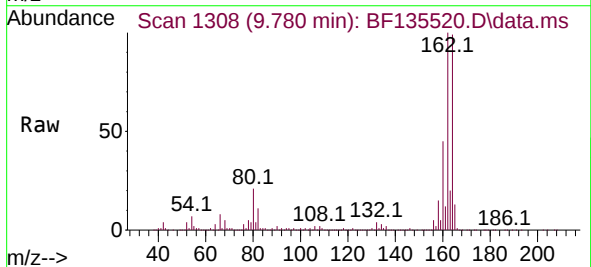
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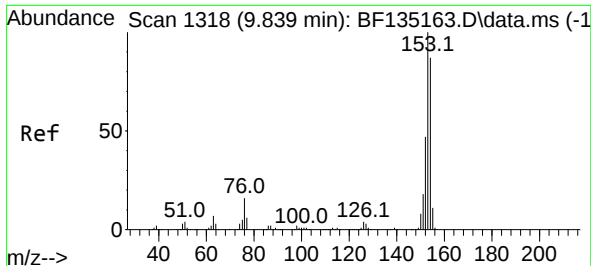
Tgt Ion:163 Resp: 43177
Ion Ratio Lower Upper
163 100
194 0.0 3.1 4.7#
164 491.6 8.1 12.1#



#51
2,6-Dinitrotoluene
Concen: 9.282 ng
RT: 9.780 min Scan# 1308
Delta R.T. 0.194 min
Lab File: BF135520.D
Acq: 29 Sep 2023 17:15

Tgt Ion:165 Resp: 29652
Ion Ratio Lower Upper
165 100
63 1.9 59.4 89.2#
89 1.1 49.8 74.8#

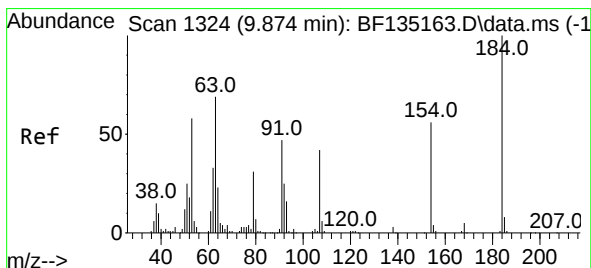
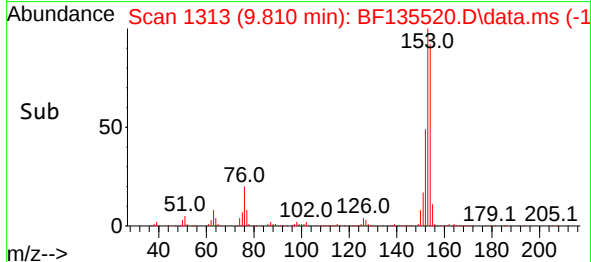
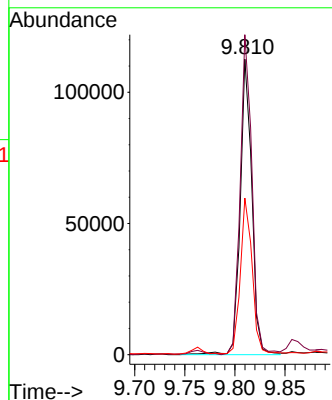
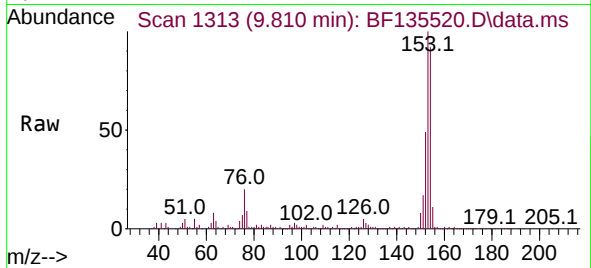




#52
Acenaphthene
Concen: 7.699 ng
RT: 9.810 min Scan# 1318
Delta R.T. -0.012 min
Lab File: BF135520.D
Acq: 29 Sep 2023 17:15

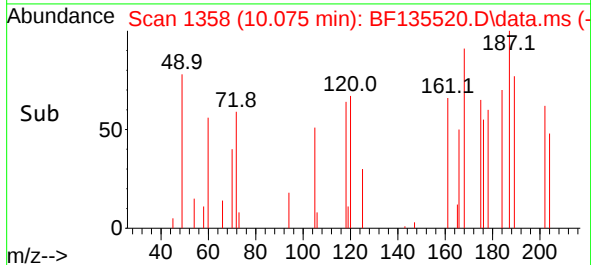
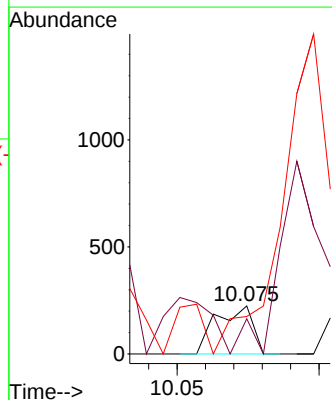
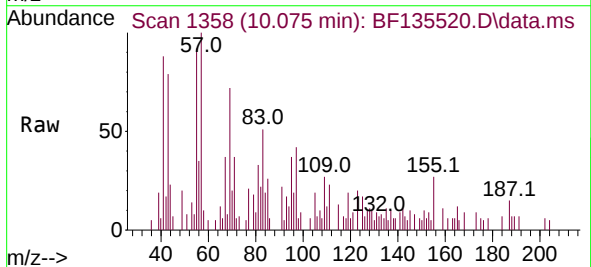
Instrument :
BNA_F
ClientSampleId :
OR-03-09272023

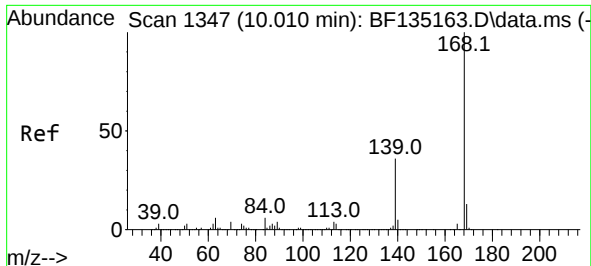
Tgt Ion:154 Resp: 90896
Ion Ratio Lower Upper
154 100
153 108.3 92.1 138.1
152 53.0 43.1 64.7



#54
2,4-Dinitrophenol
Concen: 6.349 ng
RT: 10.075 min Scan# 1358
Delta R.T. 0.206 min
Lab File: BF135520.D
Acq: 29 Sep 2023 17:15

Tgt Ion:184 Resp: 199
Ion Ratio Lower Upper
184 100
63 73.2 55.1 82.7
154 78.1 48.4 72.6#

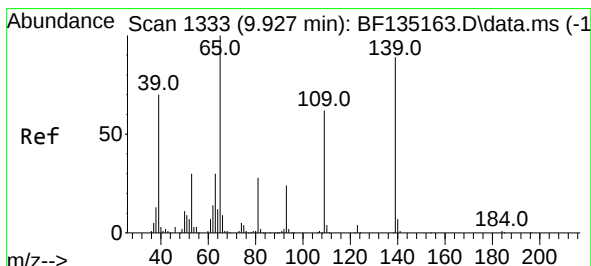
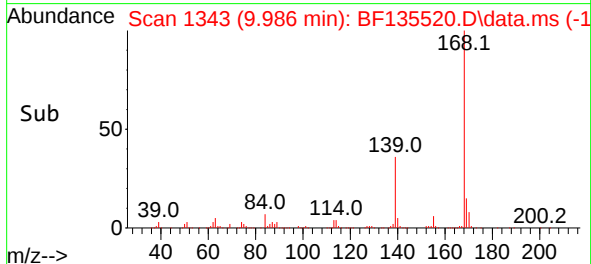
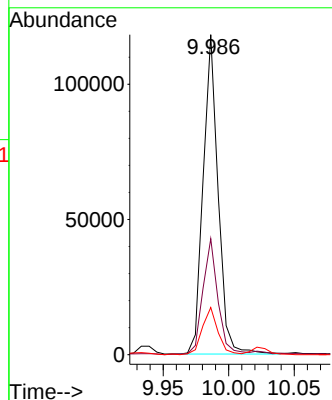
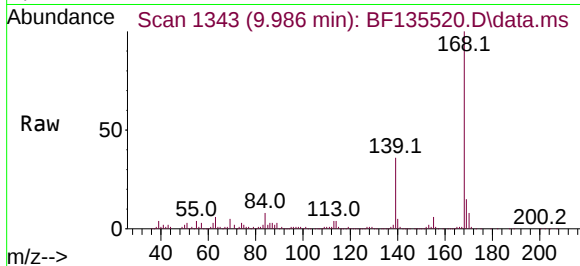




#55
Dibenzenofuran
Concen: 5.218 ng
RT: 9.986 min Scan# 1343
Delta R.T. -0.006 min
Lab File: BF135520.D
Acq: 29 Sep 2023 17:15

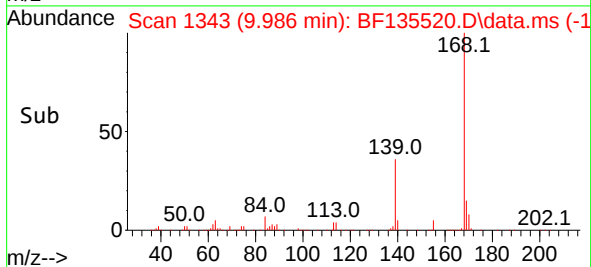
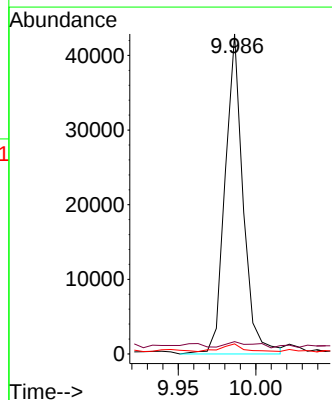
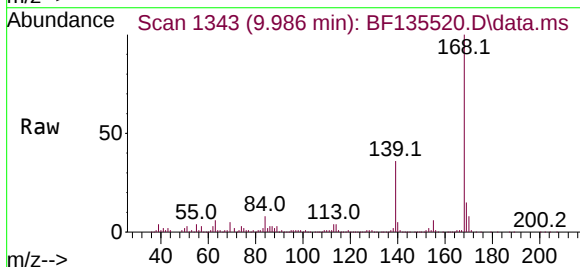
Instrument :
BNA_F
ClientSampleId :
OR-03-09272023

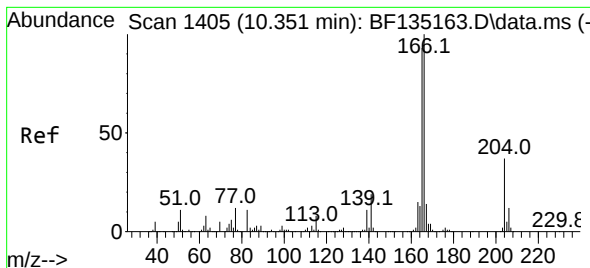
Tgt Ion:168 Resp: 94011
Ion Ratio Lower Upper
168 100
139 36.2 29.0 43.6
169 14.7 10.4 15.6



#56
4-Nitrophenol
Concen: 14.572 ng
RT: 9.986 min Scan# 1343
Delta R.T. 0.053 min
Lab File: BF135520.D
Acq: 29 Sep 2023 17:15

Tgt Ion:139 Resp: 34728
Ion Ratio Lower Upper
139 100
109 3.8 49.8 89.8#
65 3.2 92.7 132.7#





#58

Fluorene

Concen: 9.454 ng

RT: 10.327 min Scan# 1405

Delta R.T. -0.012 min

Lab File: BF135520.D

Acq: 29 Sep 2023 17:15

Instrument :

BNA_F

ClientSampleId :

OR-03-09272023

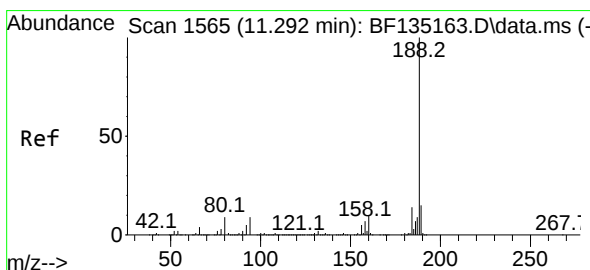
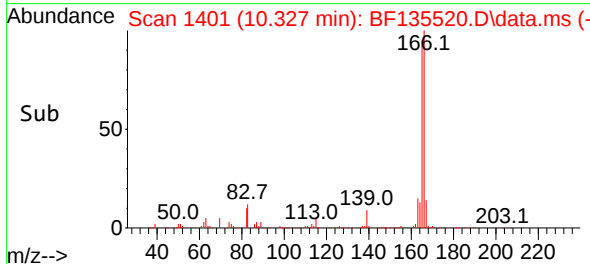
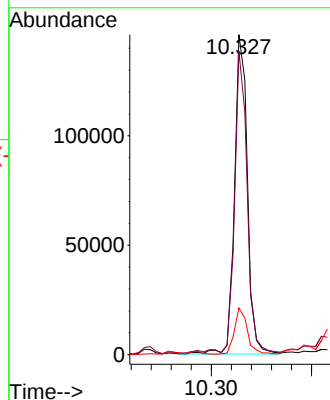
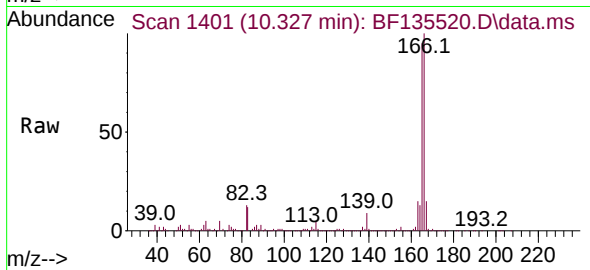
Tgt Ion:166 Resp: 130948

Ion Ratio Lower Upper

166 100

165 94.9 74.3 111.5

167 14.6 10.9 16.3



#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.274 min Scan# 1562

Delta R.T. -0.000 min

Lab File: BF135520.D

Acq: 29 Sep 2023 17:15

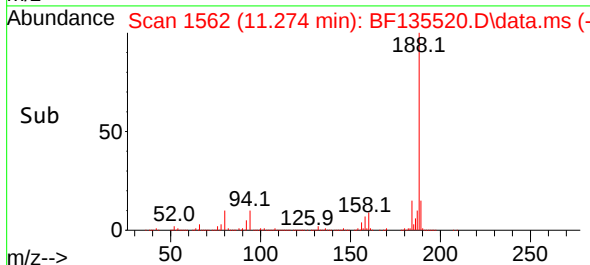
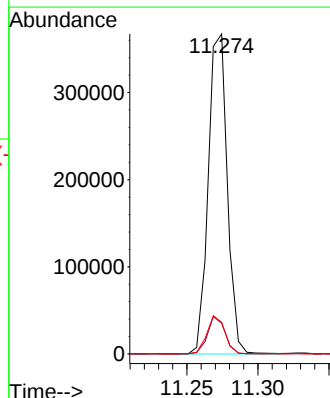
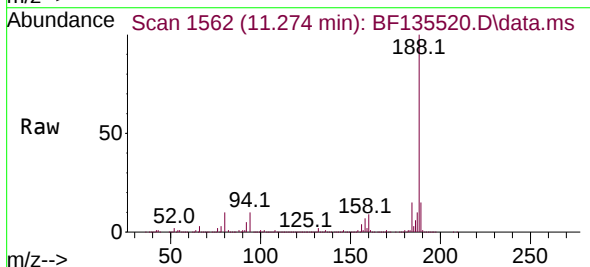
Tgt Ion:188 Resp: 343749

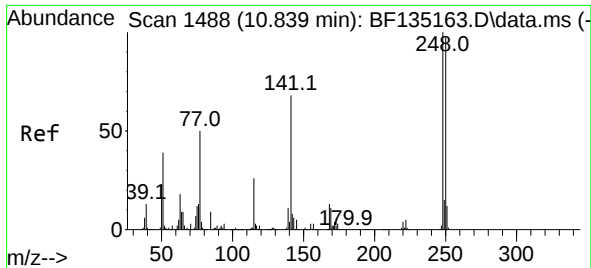
Ion Ratio Lower Upper

188 100

94 9.6 7.0 10.6

80 9.9 7.5 11.3

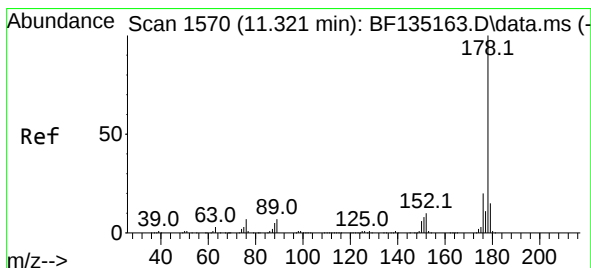
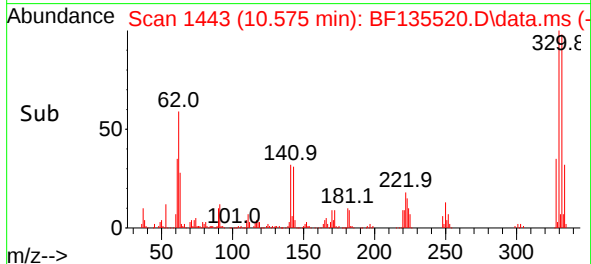
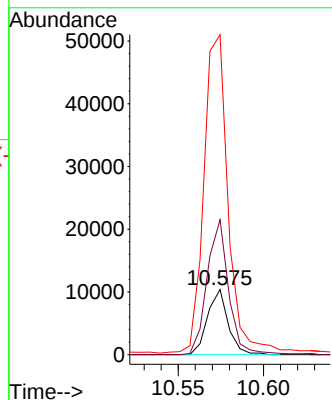
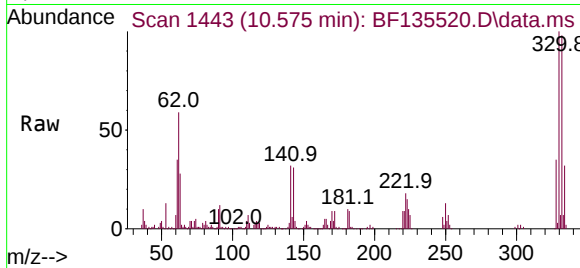




#67
4-Bromophenyl-phenylether
Concen: 2.559 ng
RT: 10.575 min Scan# 1488
Delta R.T. -0.247 min
Lab File: BF135520.D
Acq: 29 Sep 2023 17:15

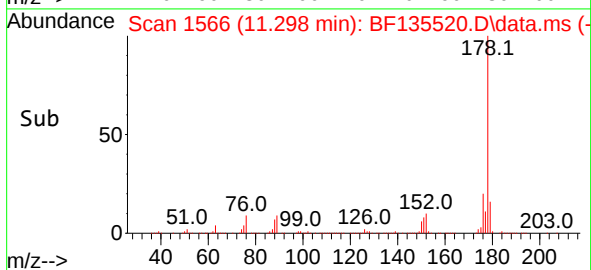
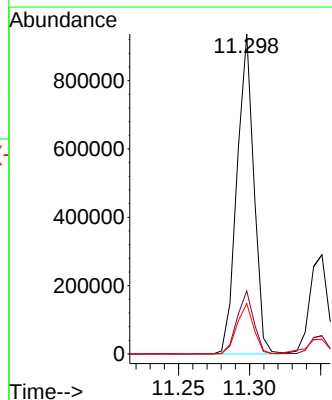
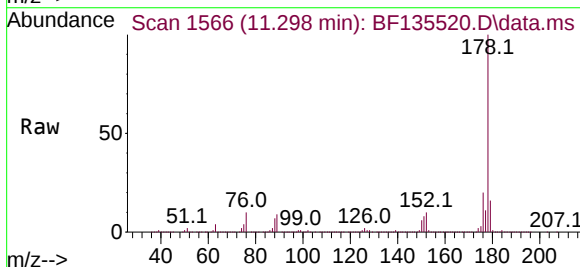
Instrument :
BNA_F
ClientSampleId :
OR-03-09272023

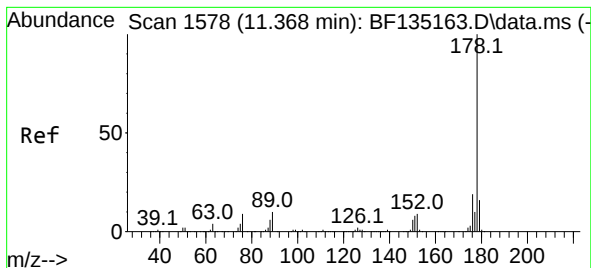
Tgt Ion:248 Resp: 8748
Ion Ratio Lower Upper
248 100
250 207.2 78.6 117.8#
141 491.1 54.2 81.2#



#71
Phenanthrene
Concen: 47.681 ng
RT: 11.298 min Scan# 1566
Delta R.T. -0.006 min
Lab File: BF135520.D
Acq: 29 Sep 2023 17:15

Tgt Ion:178 Resp: 775185
Ion Ratio Lower Upper
178 100
176 19.7 15.6 23.4
179 15.7 12.0 18.0





#72

Anthracene

Concen: 14.971 ng

RT: 11.351 min Scan# 1

Delta R.T. -0.006 min

Lab File: BF135520.D

Acq: 29 Sep 2023 17:15

Instrument :

BNA_F

ClientSampleId :

OR-03-09272023

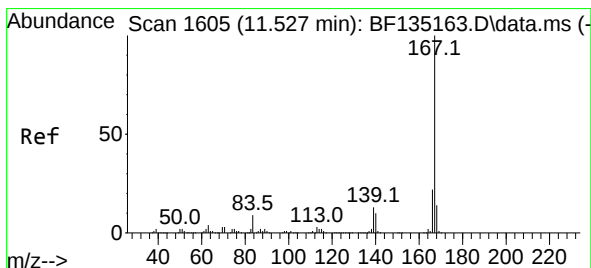
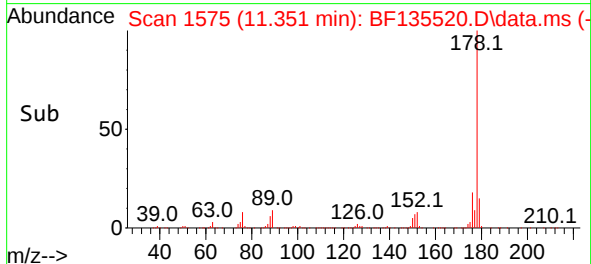
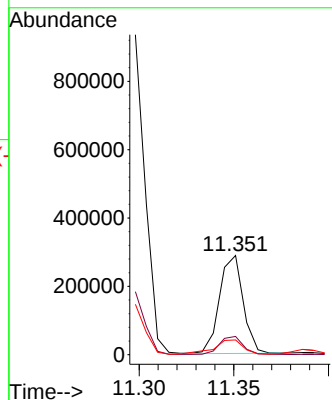
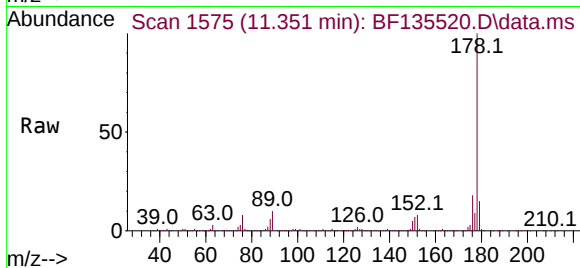
Tgt Ion:178 Resp: 250192

Ion Ratio Lower Upper

178 100

176 18.4 15.4 23.2

179 14.9 12.6 19.0



#73

Carbazole

Concen: 5.552 ng

RT: 11.510 min Scan# 1602

Delta R.T. -0.006 min

Lab File: BF135520.D

Acq: 29 Sep 2023 17:15

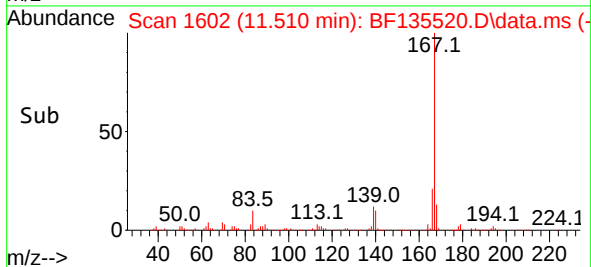
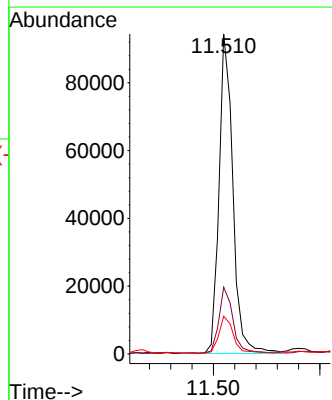
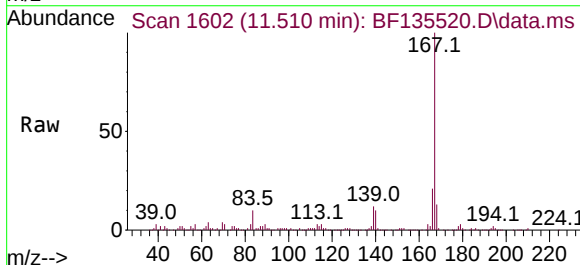
Tgt Ion:167 Resp: 84465

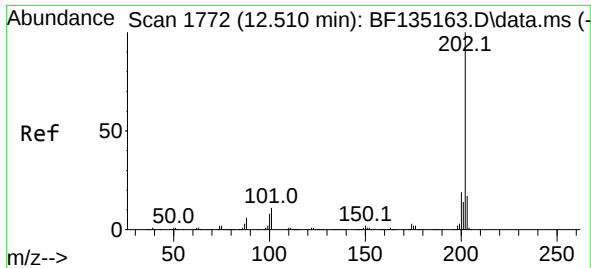
Ion Ratio Lower Upper

167 100

166 20.9 17.4 26.0

139 11.8 10.6 15.8

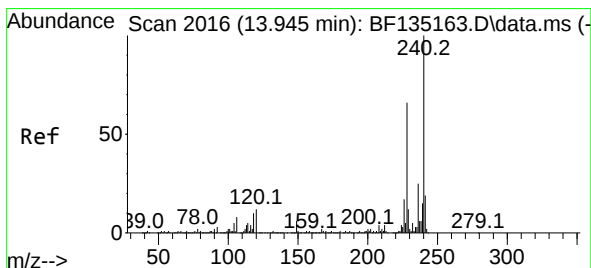
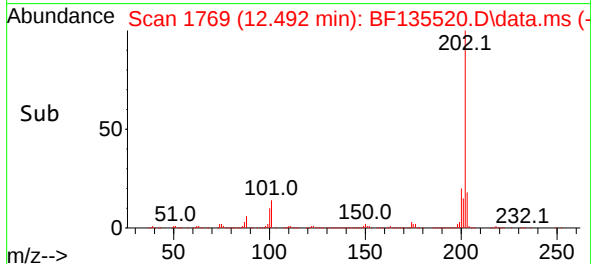
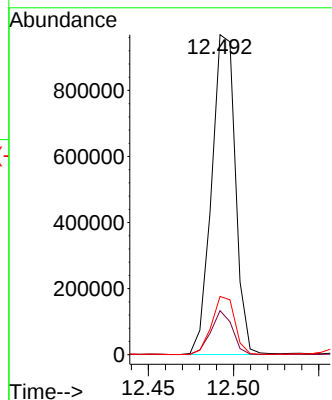
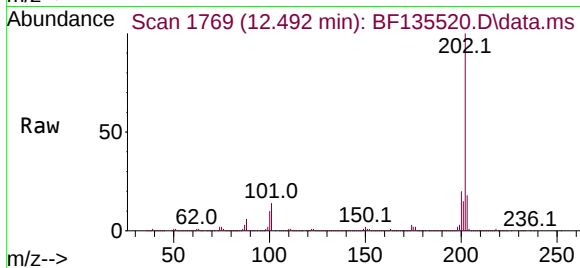




#75
Fluoranthene
Concen: 55.531 ng
RT: 12.492 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF135520.D
Acq: 29 Sep 2023 17:15

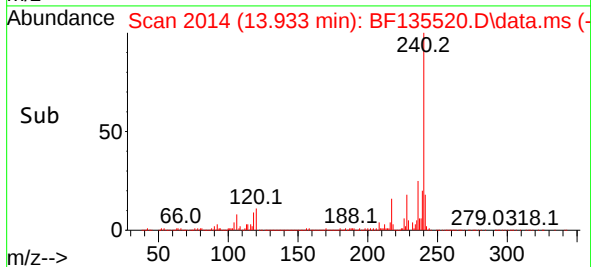
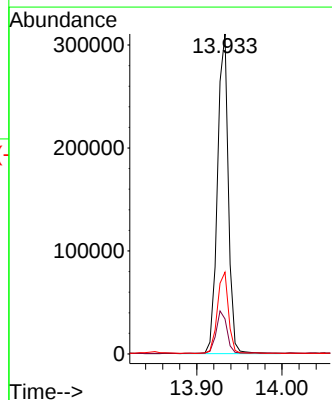
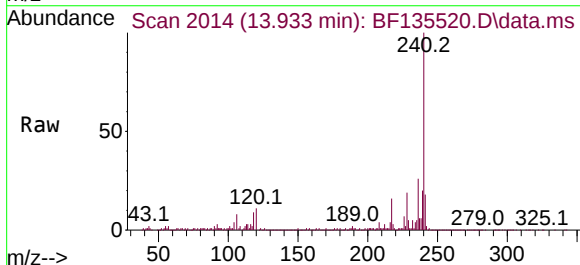
Instrument :
BNA_F
ClientSampleId :
OR-03-09272023

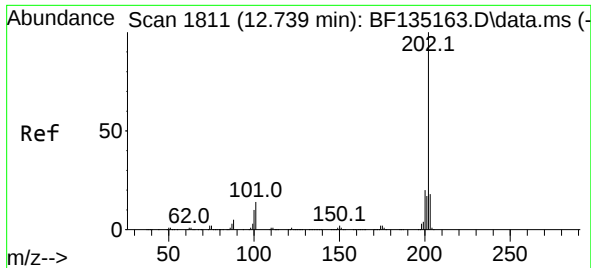
Tgt Ion:202 Resp: 940717
Ion Ratio Lower Upper
202 100
101 13.8 0.0 31.3
203 18.2 0.0 37.4



#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.933 min Scan# 2014
Delta R.T. -0.000 min
Lab File: BF135520.D
Acq: 29 Sep 2023 17:15

Tgt Ion:240 Resp: 273836
Ion Ratio Lower Upper
240 100
120 10.9 9.4 14.2
236 25.5 19.8 29.8

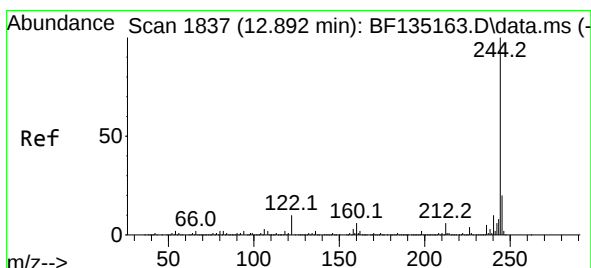
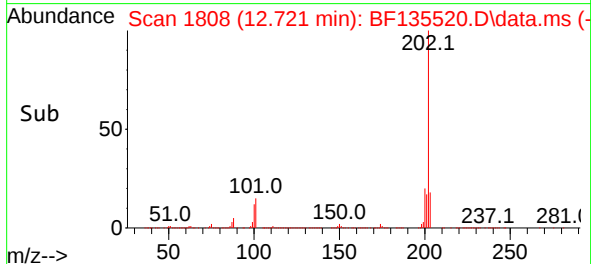
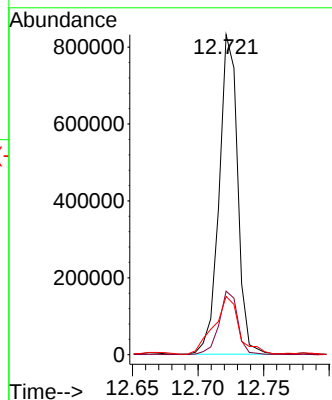
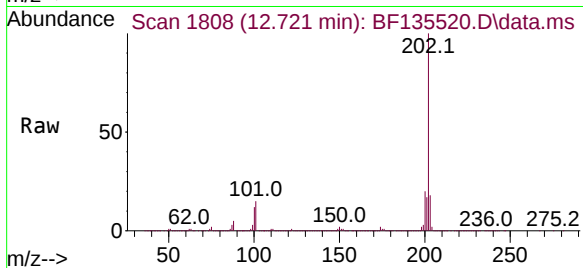




#78
Pyrene
Concen: 31.251 ng
RT: 12.721 min Scan# 1808
Delta R.T. -0.006 min
Lab File: BF135520.D
Acq: 29 Sep 2023 17:15

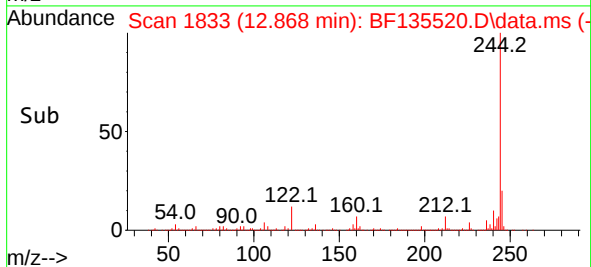
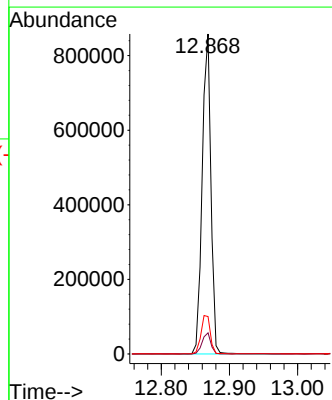
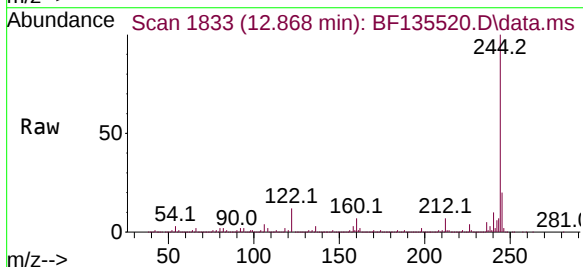
Instrument :
BNA_F
ClientSampleId :
OR-03-09272023

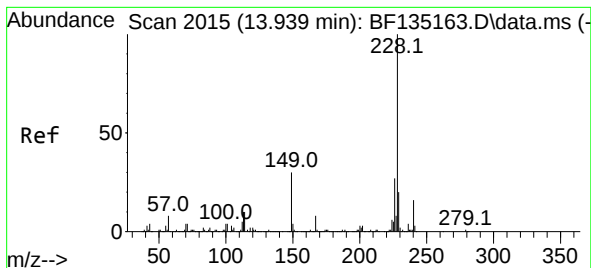
Tgt Ion:202 Resp: 814742
Ion Ratio Lower Upper
202 100
200 19.9 16.2 24.2
203 18.2 14.2 21.4



#79
Terphenyl-d14
Concen: 43.216 ng
RT: 12.868 min Scan# 1833
Delta R.T. -0.006 min
Lab File: BF135520.D
Acq: 29 Sep 2023 17:15

Tgt Ion:244 Resp: 763391
Ion Ratio Lower Upper
244 100
212 6.6 5.1 7.7
122 11.7 7.9 11.9





#81

Benzo(a)anthracene

Concen: 21.475 ng

RT: 13.921 min Scan# 2018

Delta R.T. -0.000 min

Lab File: BF135520.D

Acq: 29 Sep 2023 17:15

Instrument :

BNA_F

ClientSampleId :

OR-03-09272023

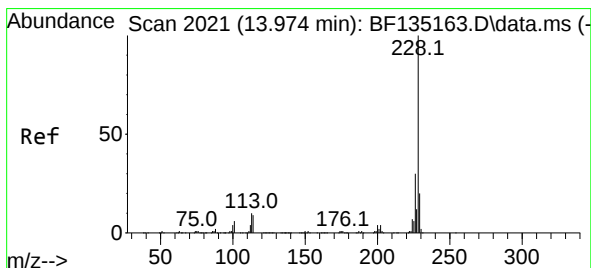
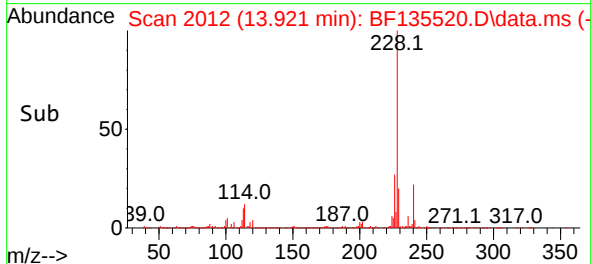
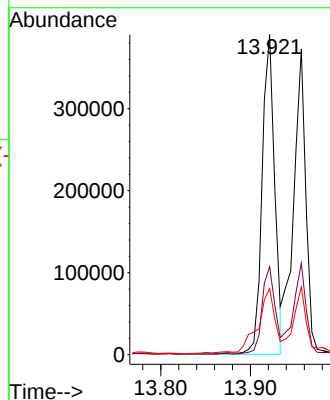
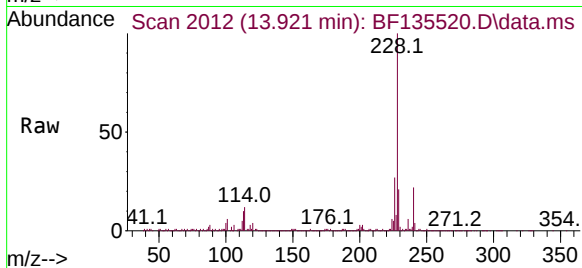
Tgt Ion:228 Resp: 379725

Ion Ratio Lower Upper

228 100

226 27.5 21.7 32.5

229 20.6 15.8 23.8



#83

Chrysene

Concen: 18.682 ng

RT: 13.957 min Scan# 2018

Delta R.T. -0.006 min

Lab File: BF135520.D

Acq: 29 Sep 2023 17:15

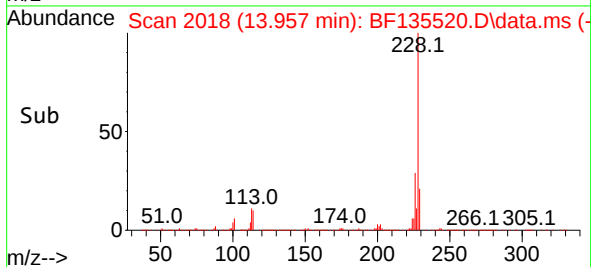
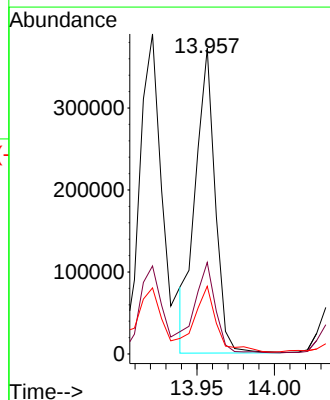
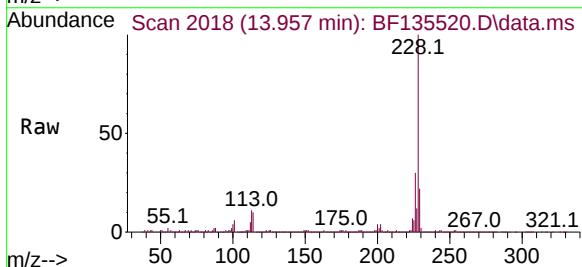
Tgt Ion:228 Resp: 328439

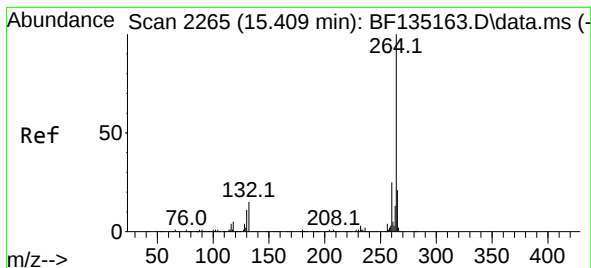
Ion Ratio Lower Upper

228 100

226 30.0 24.3 36.5

229 22.2 16.0 24.0





#86

Perylene-d12

Concen: 20.000 ng

RT: 15.392 min Scan# 21

Delta R.T. -0.000 min

Lab File: BF135520.D

Acq: 29 Sep 2023 17:15

Instrument :

BNA_F

ClientSampleId :

OR-03-09272023

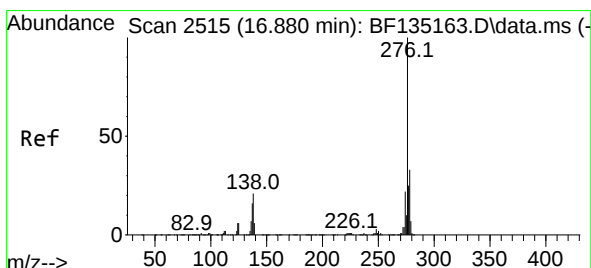
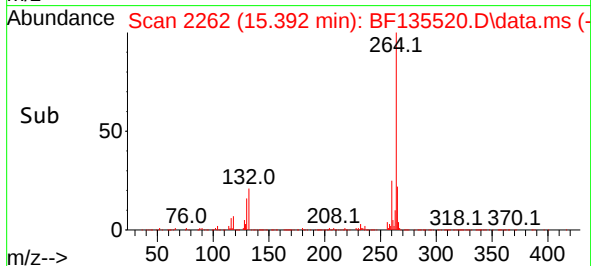
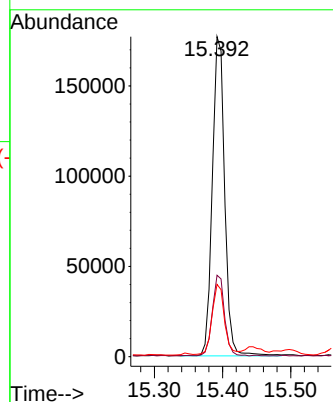
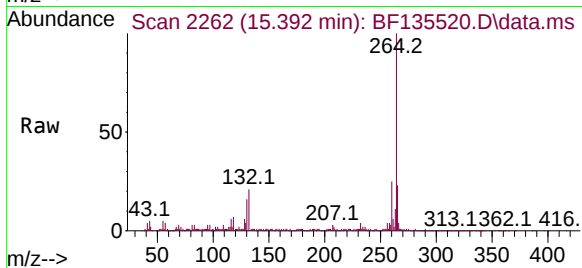
Tgt Ion:264 Resp: 222784

Ion Ratio Lower Upper

264 100

260 25.5 19.8 29.6

265 22.6 17.0 25.4



#87

Indeno(1,2,3-cd)pyrene

Concen: 7.314 ng

RT: 16.874 min Scan# 2514

Delta R.T. -0.006 min

Lab File: BF135520.D

Acq: 29 Sep 2023 17:15

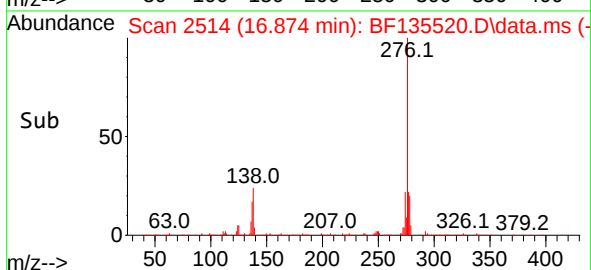
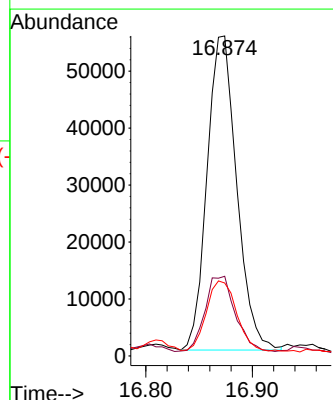
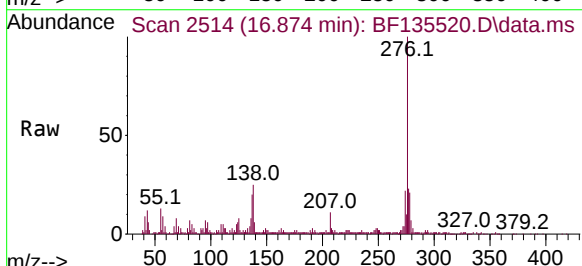
Tgt Ion:276 Resp: 106844

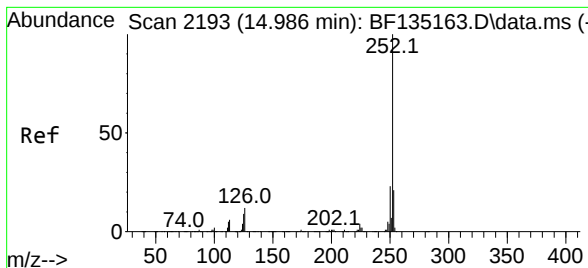
Ion Ratio Lower Upper

276 100

138 24.3 19.2 28.8

277 23.5 19.7 29.5





#88

Benzo(b)fluoranthene

Concen: 34.072 ng

RT: 14.968 min Scan# 2190

Delta R.T. -0.000 min

Lab File: BF135520.D

Acq: 29 Sep 2023 17:15

Instrument :

BNA_F

ClientSampleId :

OR-03-09272023

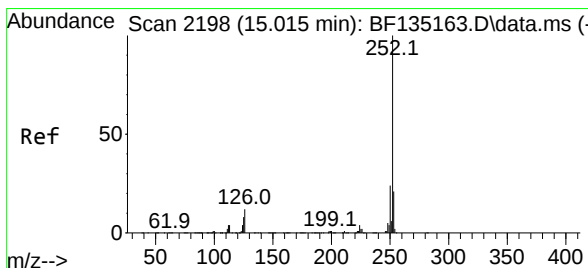
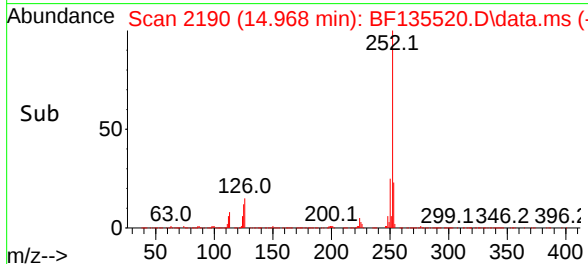
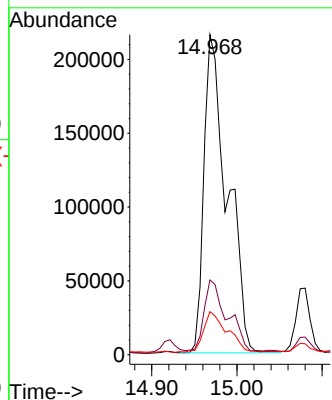
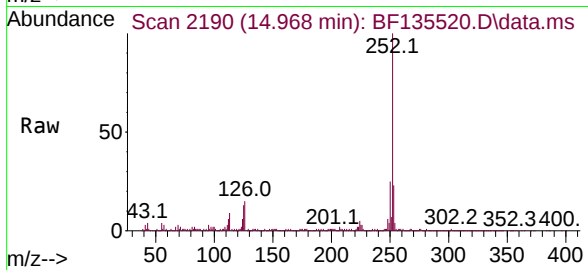
Tgt Ion:252 Resp: 410914

Ion Ratio Lower Upper

252 100

253 23.4 17.2 25.8

125 13.5 7.1 10.7#



#89

Benzo(k)fluoranthene

Concen: 34.492 ng

RT: 14.968 min Scan# 2190

Delta R.T. -0.029 min

Lab File: BF135520.D

Acq: 29 Sep 2023 17:15

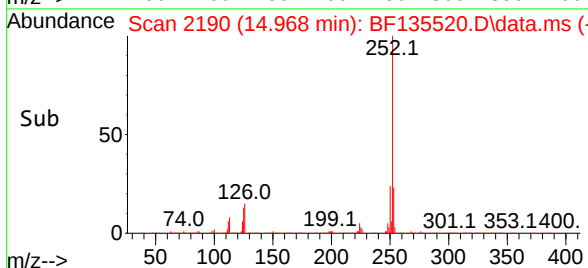
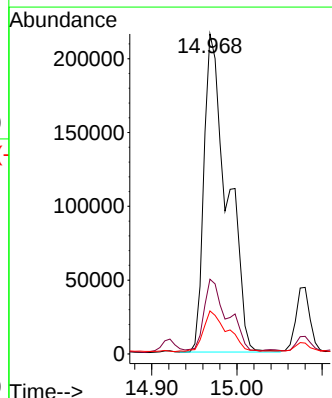
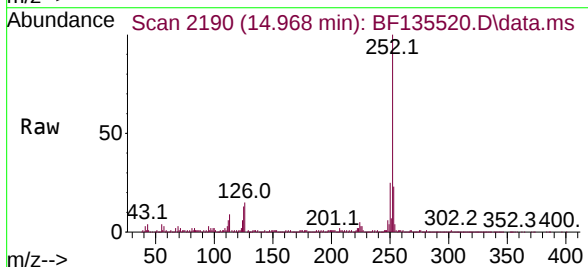
Tgt Ion:252 Resp: 410914

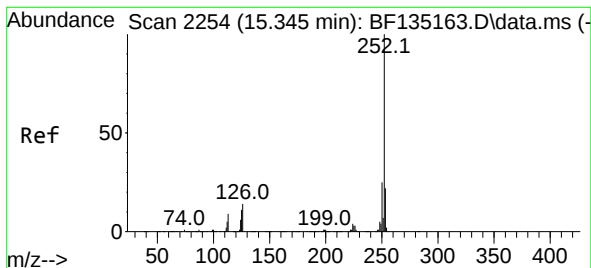
Ion Ratio Lower Upper

252 100

253 23.4 17.4 26.0

125 13.5 7.2 10.8#





#90

Benzo(a)pyrene

Concen: 18.999 ng

RT: 15.333 min Scan# 21

Delta R.T. -0.000 min

Lab File: BF135520.D

Acq: 29 Sep 2023 17:15

Instrument :

BNA_F

ClientSampleId :

OR-03-09272023

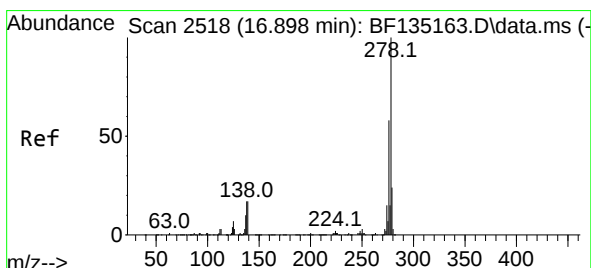
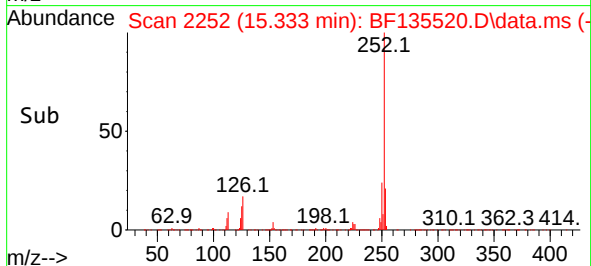
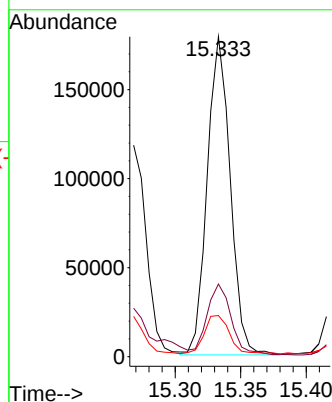
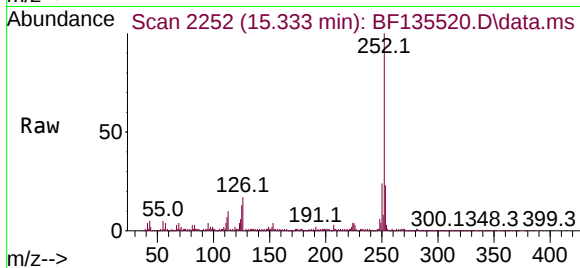
Tgt Ion:252 Resp: 218504

Ion Ratio Lower Upper

252 100

253 22.7 17.5 26.3

125 12.9 9.2 13.8



#91

Dibenzo(a,h)anthracene

Concen: 2.221 ng

RT: 16.880 min Scan# 2515

Delta R.T. -0.006 min

Lab File: BF135520.D

Acq: 29 Sep 2023 17:15

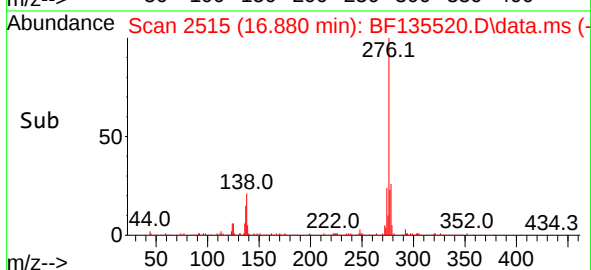
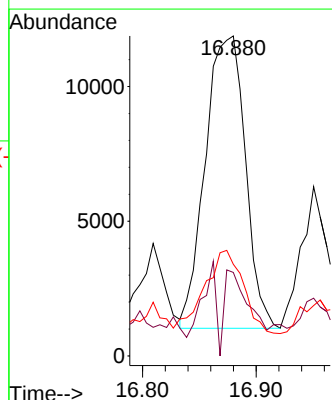
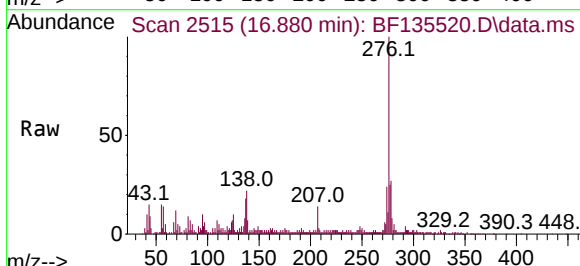
Tgt Ion:278 Resp: 26543

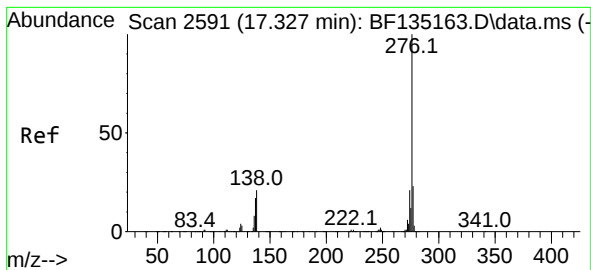
Ion Ratio Lower Upper

278 100

139 26.1 13.4 20.0#

279 28.6 19.0 28.6#





#92

Benzo(g,h,i)perylene

Concen: 7.946 ng

RT: 17.321 min Scan# 21

Delta R.T. -0.000 min

Lab File: BF135520.D

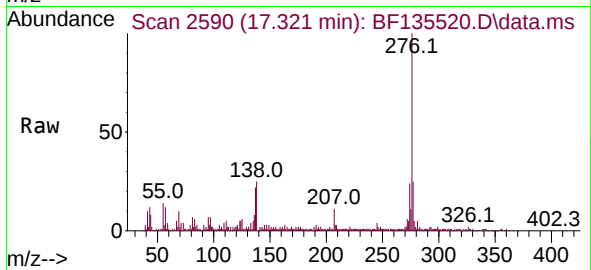
Acq: 29 Sep 2023 17:15

Instrument :

BNA_F

ClientSampleId :

OR-03-09272023



Tgt Ion: 276 Resp: 99188

Ion Ratio Lower Upper

276 100

277 24.8 18.8 28.2

138 24.8 16.9 25.3

