

Data Path : Z:\HPCHEM1\BNA F\Data\BF030118\
 Data File : BF103330.D
 Acq On : 1 Mar 2018 12:22
 Operator : SJ/JU
 Sample : J1716-04 5X
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Mar 01 13:59:20 2018
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF022218.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Feb 27 17:05:20 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.875	152	141847	20.00	ng	0.00
21) Naphthalene-d8	8.157	136	611109	20.00	ng	0.00
38) Acenaphthene-d10	9.916	164	259987	20.00	ng	0.00
63) Phenanthrene-d10	11.404	188	387113	20.00	ng	0.00
75) Chrysene-d12	14.057	240	204836	20.00	ng	0.00
86) Perylene-d12	15.562	264	255382	20.00	ng	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.492	112	290834	31.01	ng	0.00
7) Phenol-d6	6.504	99	368347	32.10	ng	0.00
23) Nitrobenzene-d5	7.433	82	221159	20.67	ng	-0.01
41) 2,4,6-Tribromophenol	10.710	330	52116	23.68	ng	0.00
44) 2-Fluorobiphenyl	9.227	172	327460	16.48	ng	0.00
78) Terphenyl-d14	12.986	244	186357	21.87	ng	0.00

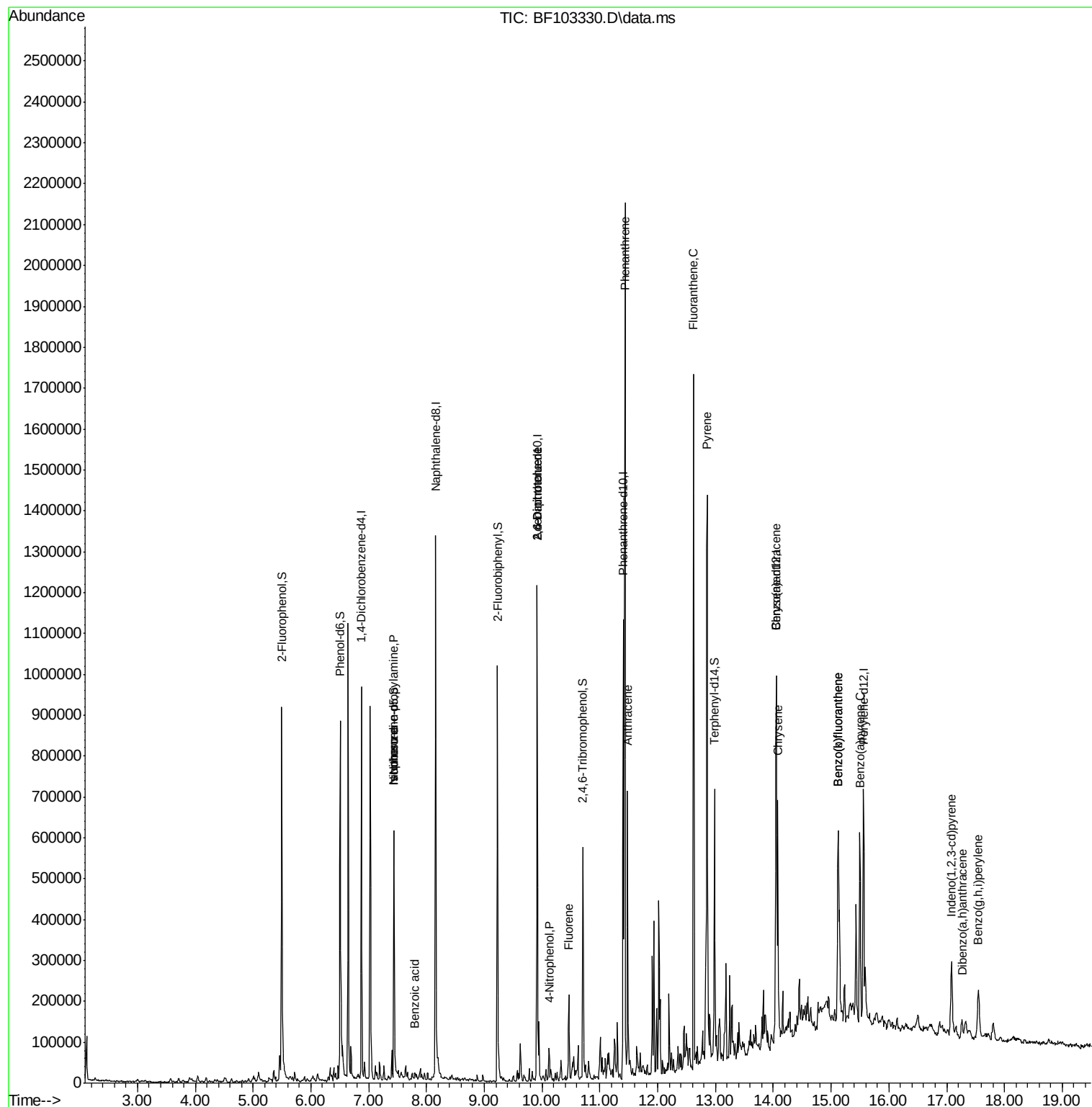
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
9) Benzaldehyde	6.428	77	1014	Below Cal		# 1
19) n-Nitroso-di-n-propyla...	7.433	70	29533	4.13	ng	# 85
25) Isophorone	7.433	82	221156	10.49	ng	# 64
32) Benzoic acid	7.804	122	124	6.93	ng	# 39
50) 2,6-Dinitrotoluene	9.910	165	34137	7.80	ng	# 26
55) 4-Nitrophenol	10.121	139	12828	3.73	ng	# 9
56) 2,4-Dinitrotoluene	9.910	165	34137	6.17	ng	# 24
57) Fluorene	10.463	166	56057	3.10	ng	97
70) Phenanthrene	11.433	178	778129	36.52	ng	98
71) Anthracene	11.480	178	258988	11.86	ng	99
74) Fluoranthene	12.621	202	660448	30.85	ng	99
77) Pyrene	12.857	202	576862	36.12	ng	100
80) Benzo(a)anthracene	14.045	228	241060	18.14	ng	98
82) Chrysene	14.080	228	203071	15.74	ng	97
85) Indeno(1,2,3-cd)pyrene	17.080	276	107656	10.54	ng	98
87) Benzo(b)fluoranthene	15.121	252	345165	20.56	ng	# 96
88) Benzo(k)fluoranthene	15.121	252	345165	21.83	ng	99
89) Benzo(a)pyrene	15.498	252	211787	14.12	ng	# 96
90) Dibenzo(a,h)anthracene	17.268	278	27165	2.34	ng	94
91) Benzo(a,h,i)perylene	17.550	276	96566	8.53	ng	96

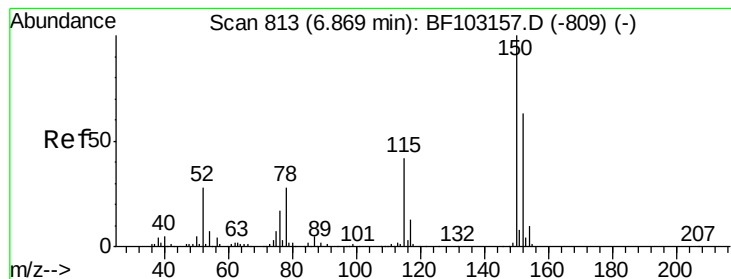
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.875 min Scan# 81

Delta R.T. -0.000 min

Lab File: BF103330.D

Acq: 1 Mar 2018 12:22

Instrument :

BNA_F

ClientSampleId :

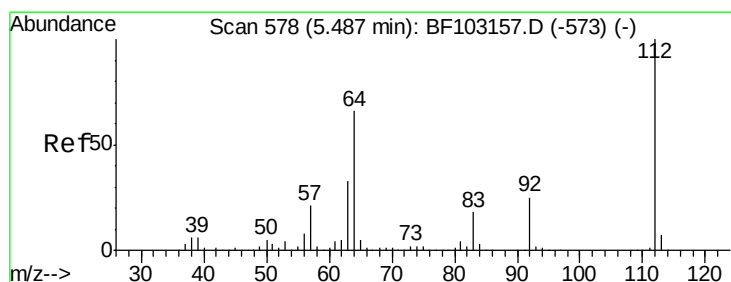
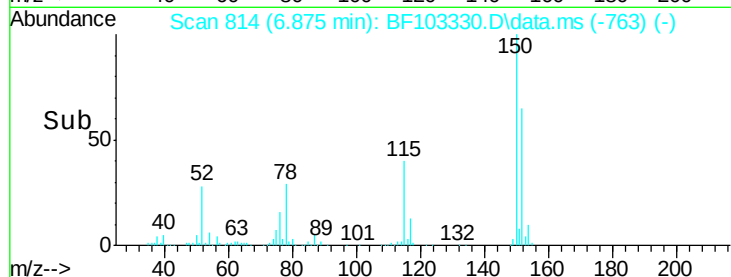
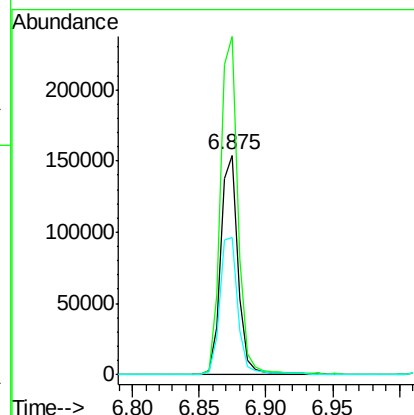
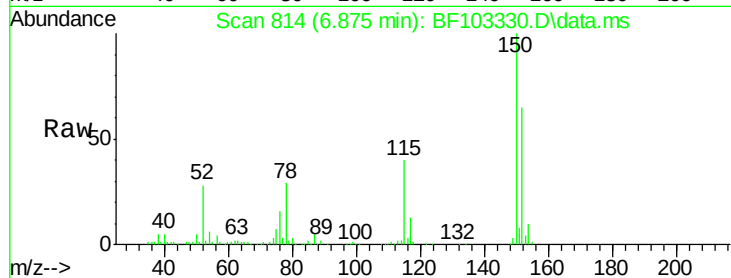
Tot Ion:152 Resp: 141847

Ion Ratio Lower Upper

152 100

150 154.0 124.6 186.8

115 62.3 50.1 75.1



#5

2-Fluorophenol

Concen: 31.01 ng

RT: 5.492 min Scan# 579

Delta R.T. -0.000 min

Lab File: BF103330.D

Acq: 1 Mar 2018 12:22

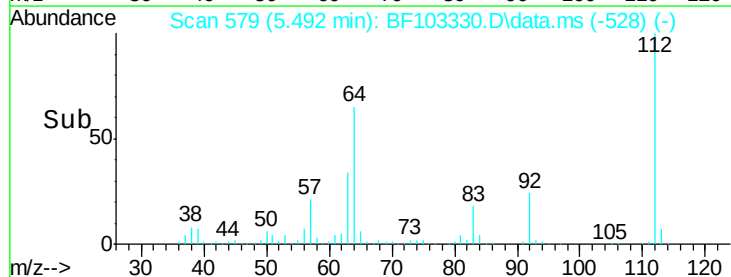
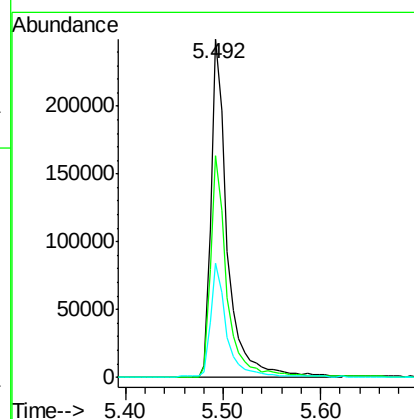
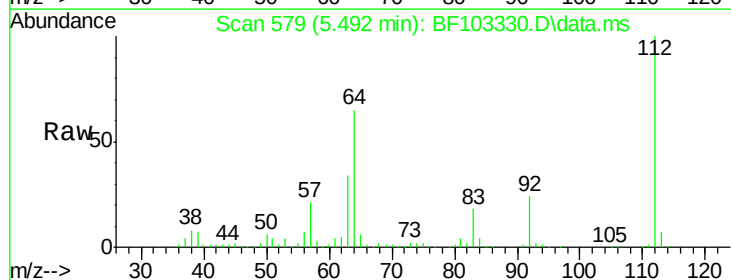
Tgt Ion:112 Resp: 290834

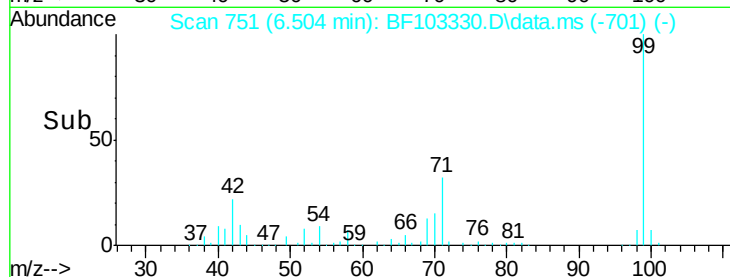
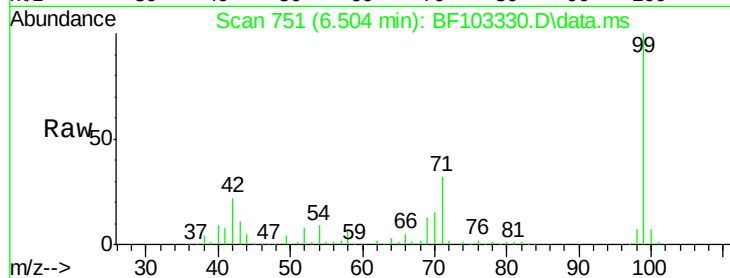
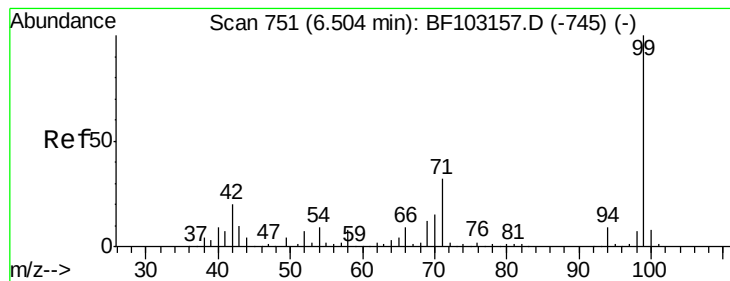
Ion Ratio Lower Upper

112 100

64 65.5 47.9 71.9

63 33.8 23.7 35.5





#7

Phenol-d6

Concen: 32.10 ng

RT: 6.504 min Scan# 751

Delta R.T. -0.006 min

Lab File: BF103330.D

Acq: 1 Mar 2018 12:22

Instrument :

BNA_F

ClientSampleId :

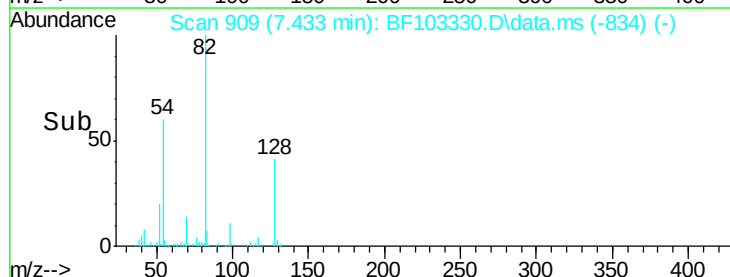
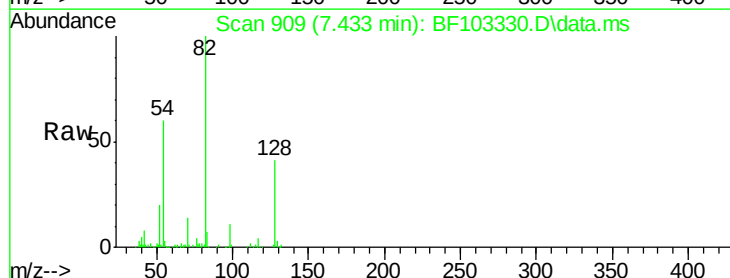
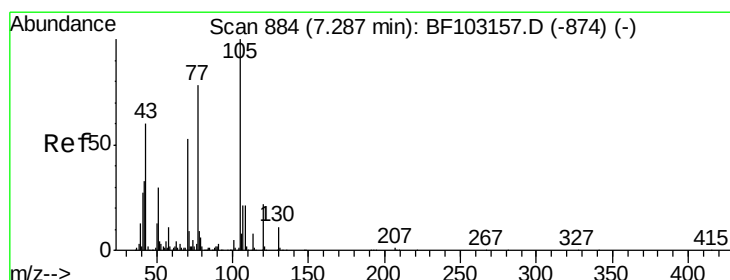
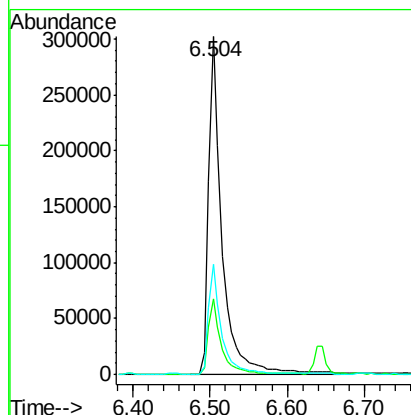
Tot Ion: 99 Resp: 368347

Ion Ratio Lower Upper

99 100

42 22.4 14.5 21.7#

71 32.5 25.4 38.0



#19

n-Nitroso-di-n-propylamine

Concen: 4.13 ng

RT: 7.433 min Scan# 909

Delta R.T. 0.141 min

Lab File: BF103330.D

Acq: 1 Mar 2018 12:22

Tgt Ion: 70 Resp: 29533

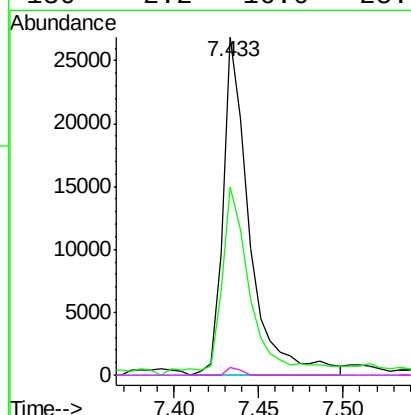
Ion Ratio Lower Upper

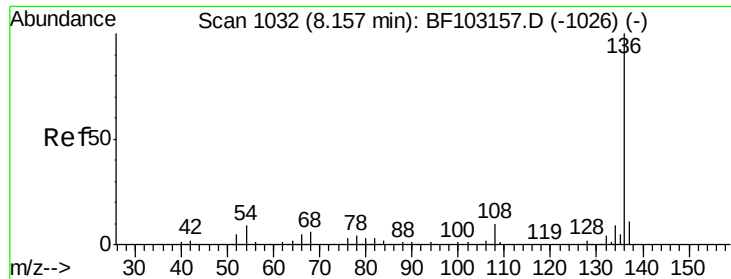
70 100

42 55.7 47.5 71.3

101 0.0 7.4 11.2#

130 2.2 16.6 25.0#

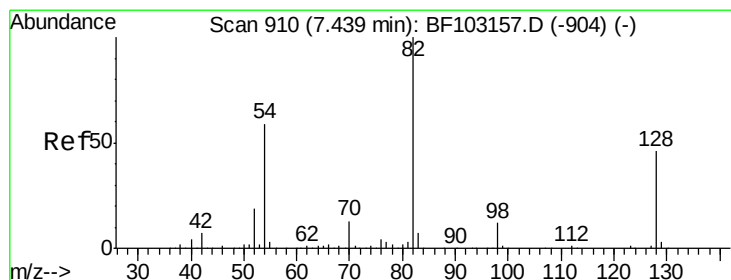
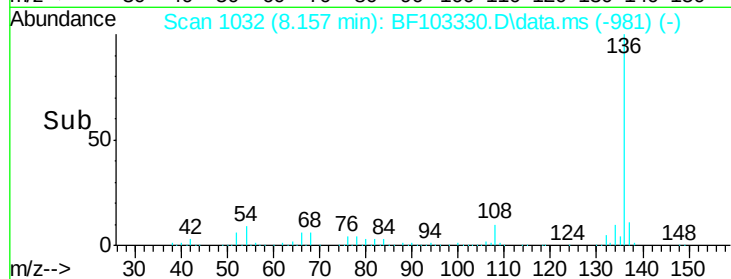
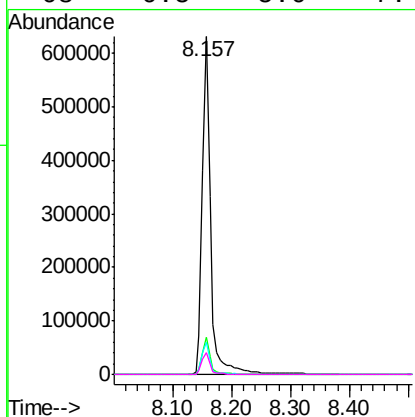
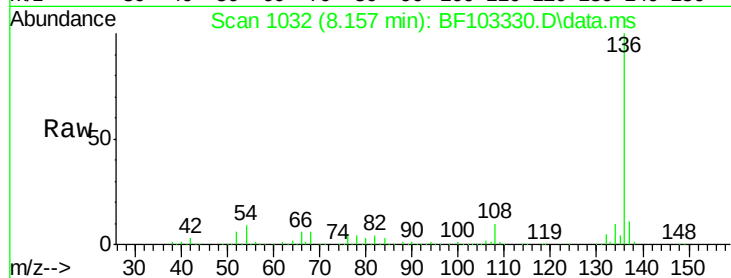




#21
Naphthalene-d8
Concen: 20.00 ng
RT: 8.157 min Scan# 10
Delta R.T. -0.000 min
Lab File: BF103330.D
Acq: 1 Mar 2018 12:22

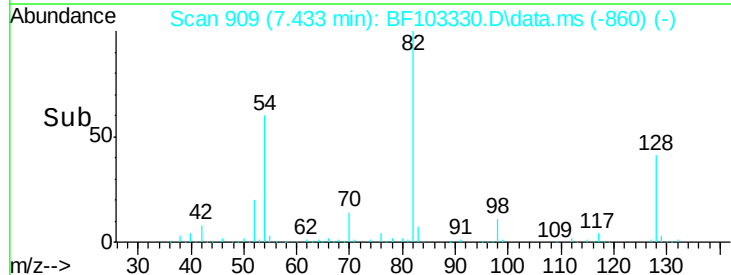
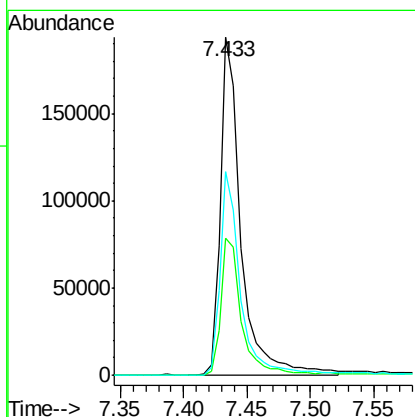
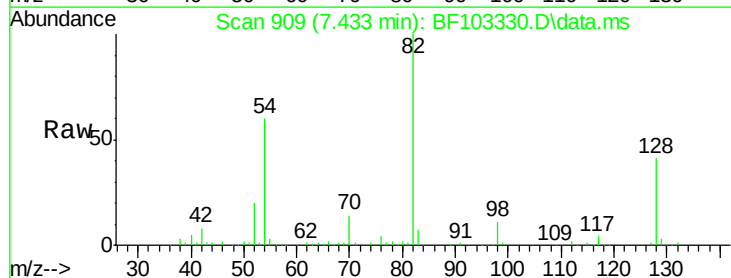
Instrument :
BNA_F
ClientSampleId :

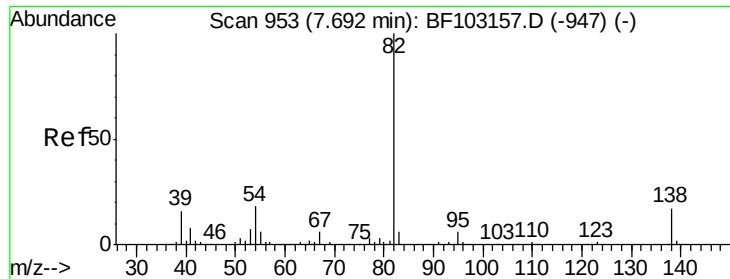
Tot Ion:136	Resp:	611109
Ion Ratio	Lower	Upper
136	100	
137	10.9	8.9 13.3
54	9.3	6.6 9.8
68	6.5	5.0 7.4



#23
Nitrobenzene-d5
Concen: 20.67 ng
RT: 7.433 min Scan# 909
Delta R.T. -0.012 min
Lab File: BF103330.D
Acq: 1 Mar 2018 12:22

Tgt Ion: 82	Resp:	221159
Ion Ratio	Lower	Upper
82	100	
128	40.6	36.1 54.1
54	60.2	41.4 62.2





#25

Isophorone

Concen: 10.49 ng

RT: 7.433 min Scan# 90

Delta R.T. -0.265 min

Lab File: BF103330.D

Acq: 1 Mar 2018 12:22

Instrument :

BNA_F

ClientSampleId :

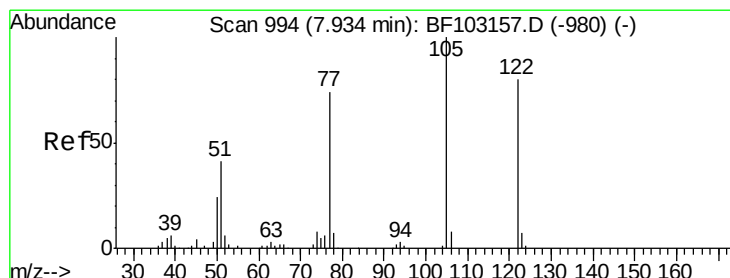
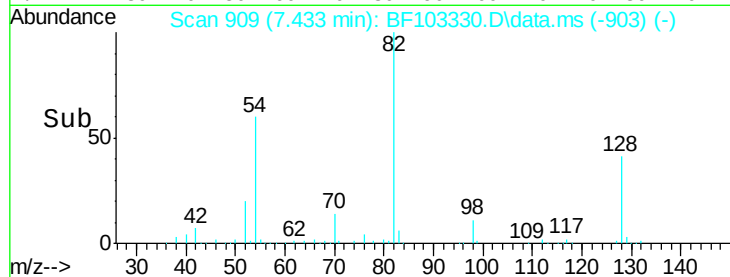
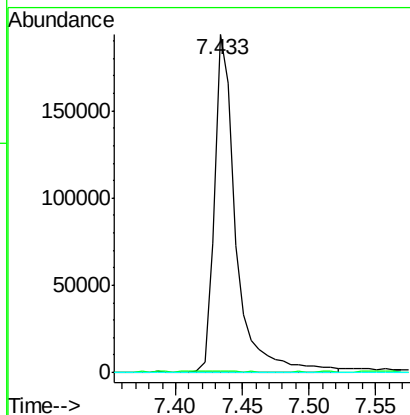
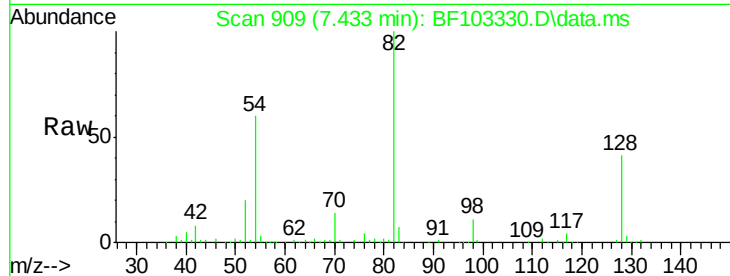
Tot Ion: 82 Resp: 221156

Ion Ratio Lower Upper

82 100

95 0.3 5.2 7.8#

138 0.0 14.9 22.3#



#32

Benzoic acid

Concen: 6.93 ng

RT: 7.804 min Scan# 972

Delta R.T. -0.141 min

Lab File: BF103330.D

Acq: 1 Mar 2018 12:22

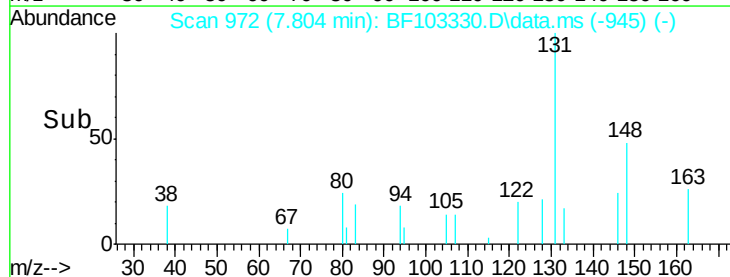
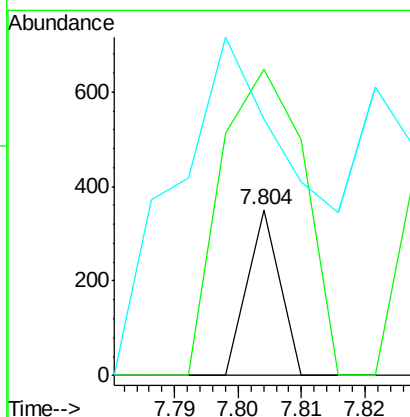
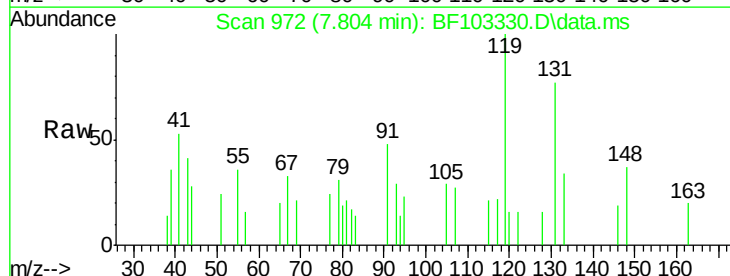
Tgt Ion: 122 Resp: 124

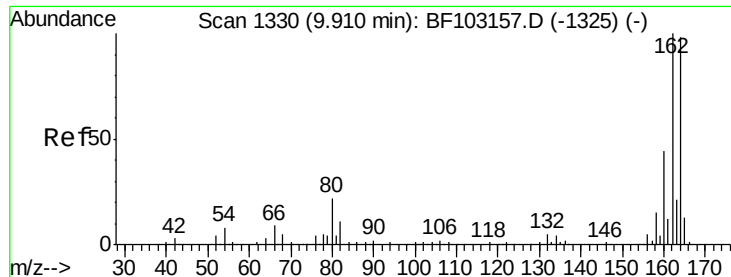
Ion Ratio Lower Upper

122 100

105 184.6 101.1 141.1#

77 154.7 70.7 110.7#





#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.916 min Scan# 1331

Delta R.T. -0.000 min

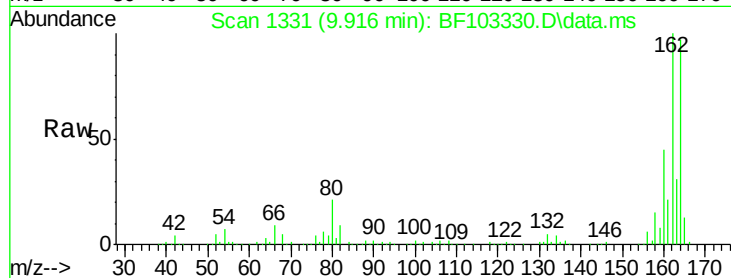
Lab File: BF103330.D

Acq: 1 Mar 2018 12:22

Instrument :

BNA_F

ClientSampleId :



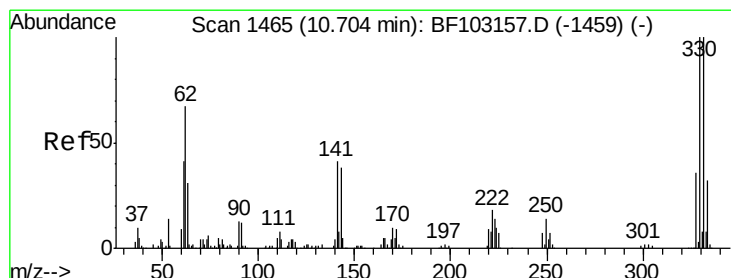
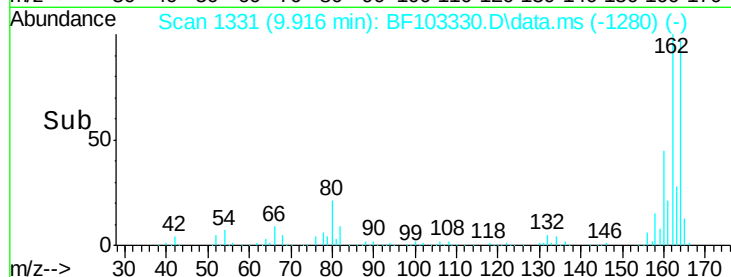
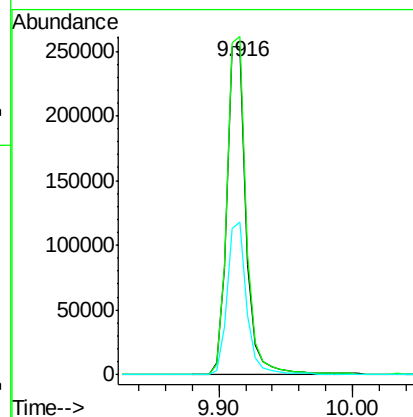
Tot Ion:164 Resp: 259987

Ion Ratio Lower Upper

164 100

162 102.9 86.1 129.1

160 46.3 38.3 57.5



#41

2,4,6-Tribromophenol

Concen: 23.68 ng

RT: 10.710 min Scan# 1466

Delta R.T. -0.000 min

Lab File: BF103330.D

Acq: 1 Mar 2018 12:22

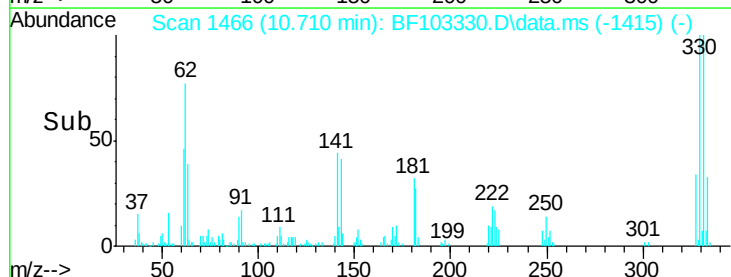
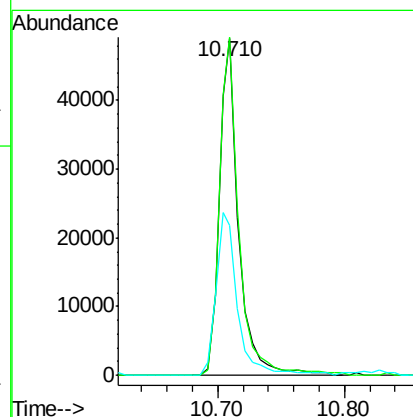
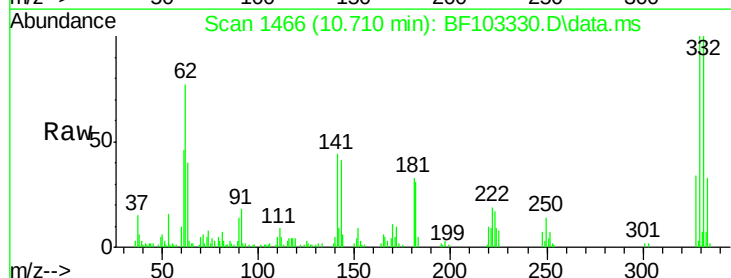
Tgt Ion:330 Resp: 52116

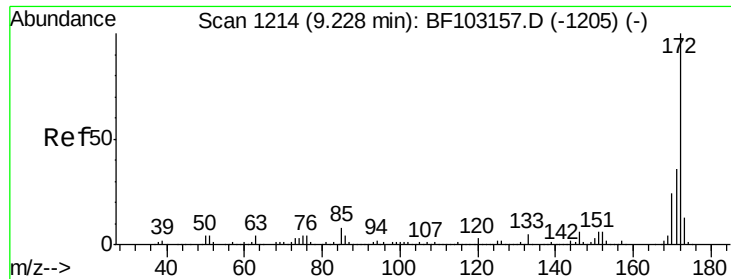
Ion Ratio Lower Upper

330 100

332 102.3 77.0 115.6

141 54.4 29.9 44.9#

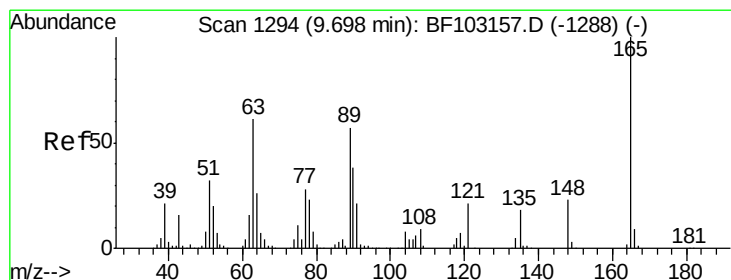
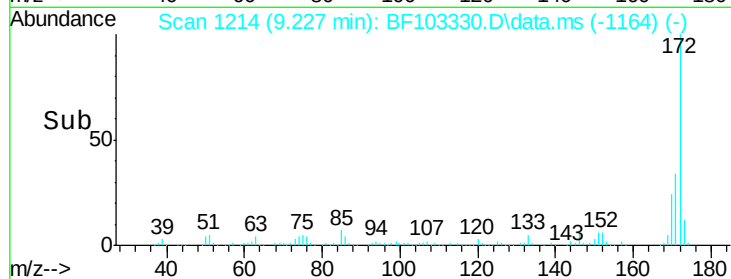
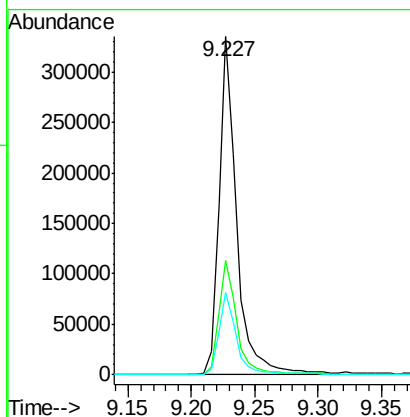
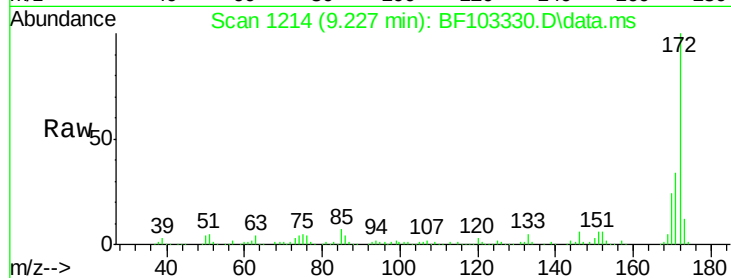




#44
 2-Fluorobiphenyl
 Concen: 16.48 ng
 RT: 9.227 min Scan# 1214
 Delta R.T. -0.006 min
 Lab File: BF103330.D
 Acq: 1 Mar 2018 12:22

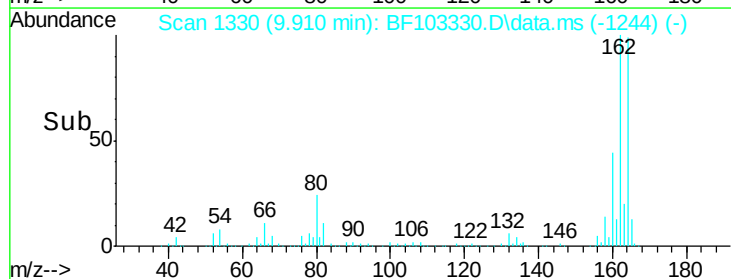
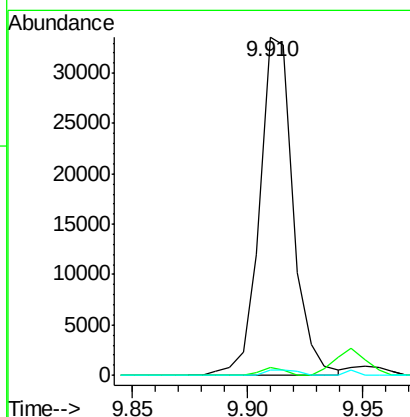
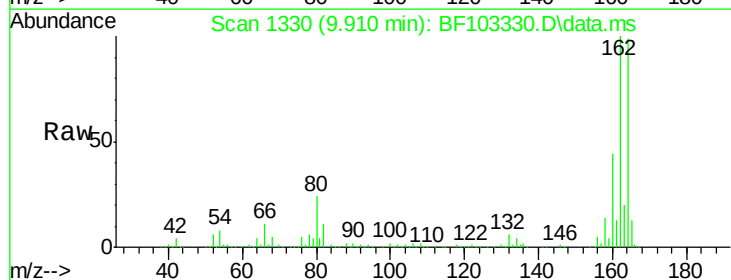
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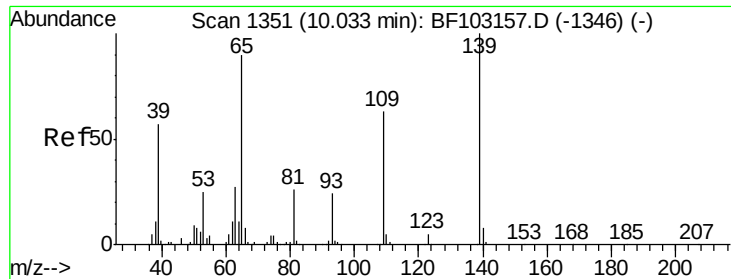
Tot Ion	Ratio	Lower	Upper
172	100		
171	33.7	29.7	44.5
170	24.3	19.6	29.4



#50
 2,6-Dinitrotoluene
 Concen: 7.80 ng
 RT: 9.910 min Scan# 1330
 Delta R.T. 0.206 min
 Lab File: BF103330.D
 Acq: 1 Mar 2018 12:22

Tgt Ion	Ratio	Lower	Upper
165	100		
63	2.2	44.7	67.1#
89	1.5	44.0	66.0#





#55

4-Nitrophenol

Concen: 3.73 ng

RT: 10.121 min Scan# 13

Delta R.T. 0.082 min

Lab File: BF103330.D

Acq: 1 Mar 2018 12:22

Instrument :

BNA_F

ClientSampleId :

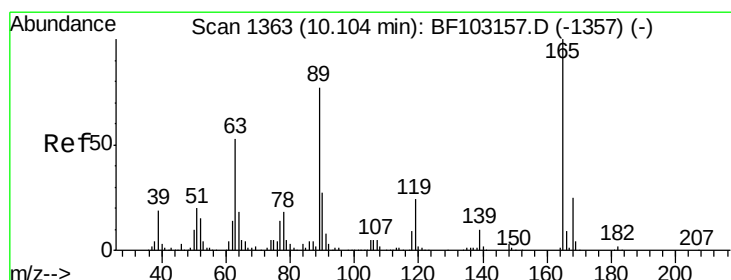
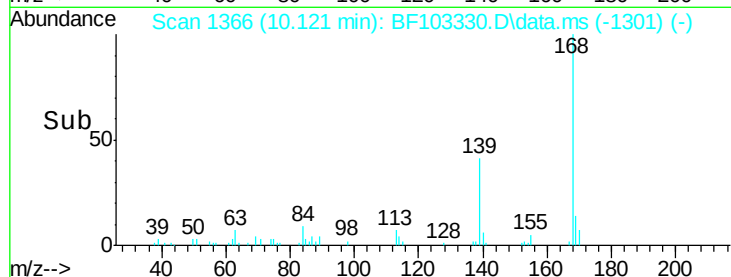
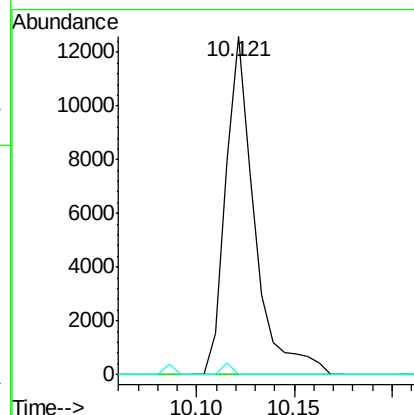
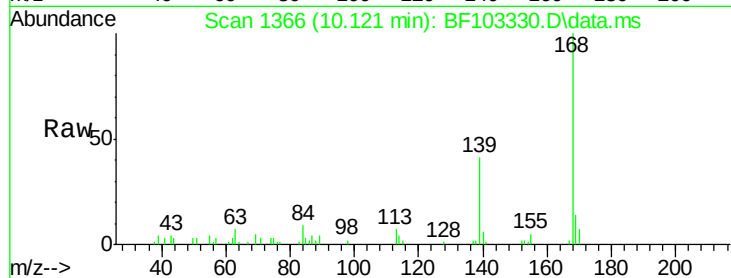
Tot Ion:139 Resp: 12828

Ion Ratio Lower Upper

139 100

109 0.0 48.4 88.4#

65 0.0 72.6 112.6#



#56

2,4-Dinitrotoluene

Concen: 6.17 ng

RT: 9.910 min Scan# 1330

Delta R.T. -0.200 min

Lab File: BF103330.D

Acq: 1 Mar 2018 12:22

Tgt Ion:165 Resp: 34137

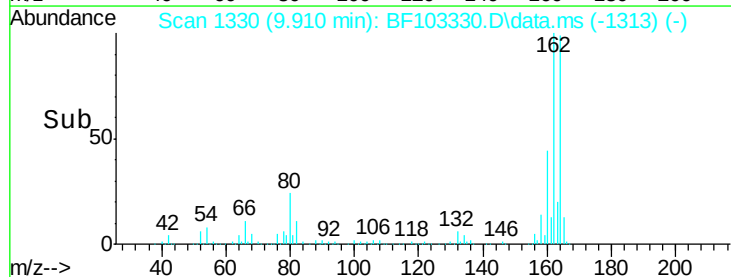
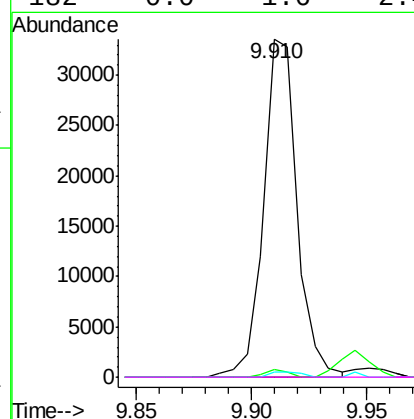
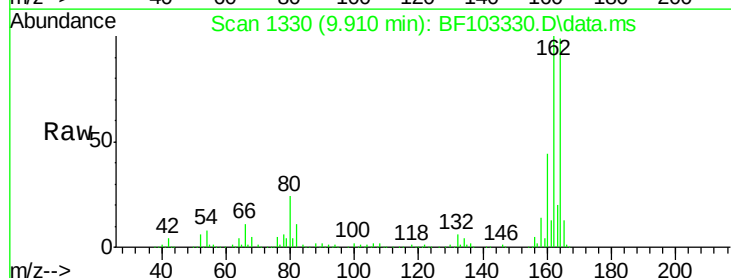
Ion Ratio Lower Upper

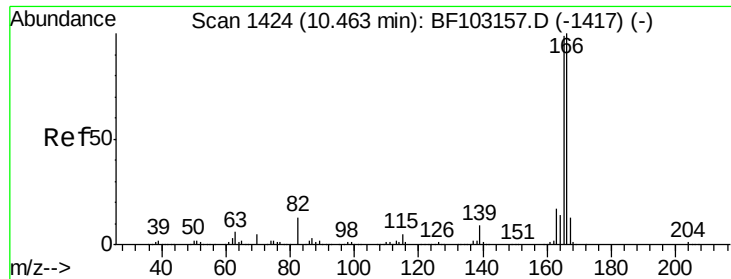
165 100

63 2.2 36.4 54.6#

89 1.5 57.8 86.6#

182 0.0 1.6 2.4#

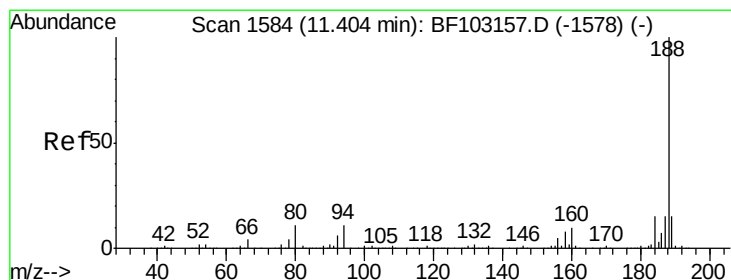
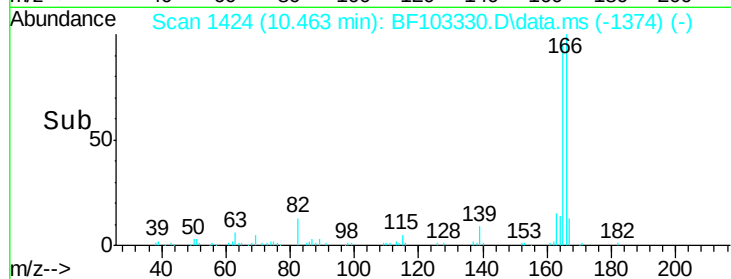
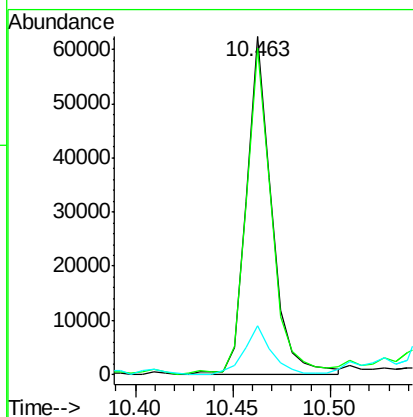
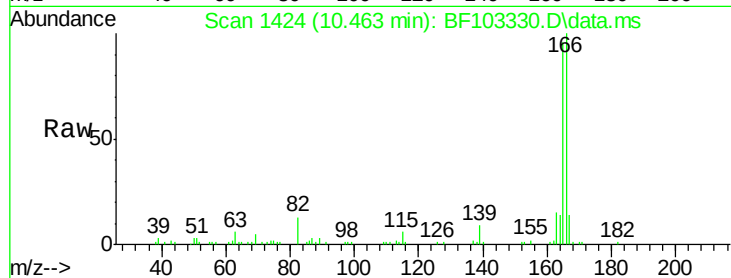




#57
 Fluorene
 Concen: 3.10 ng
 RT: 10.463 min Scan# 1417
 Delta R.T. -0.006 min
 Lab File: BF103330.D
 Acq: 1 Mar 2018 12:22

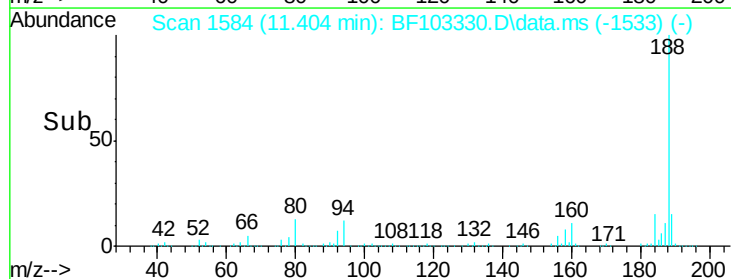
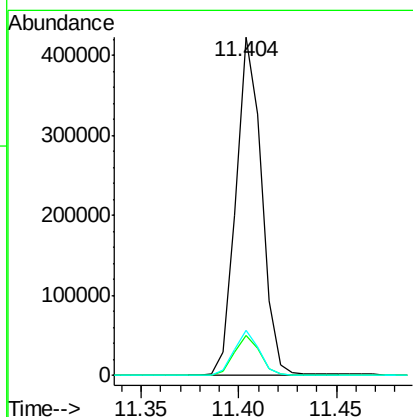
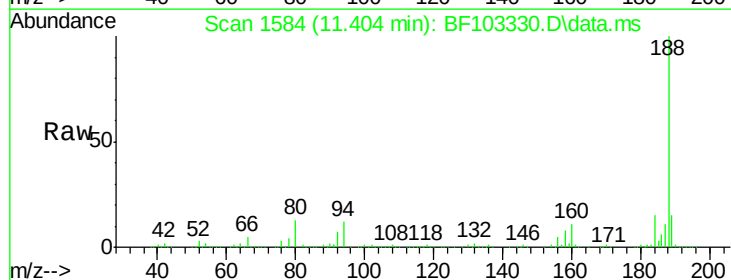
Instrument :
 BNA_F
 ClientSampleId :

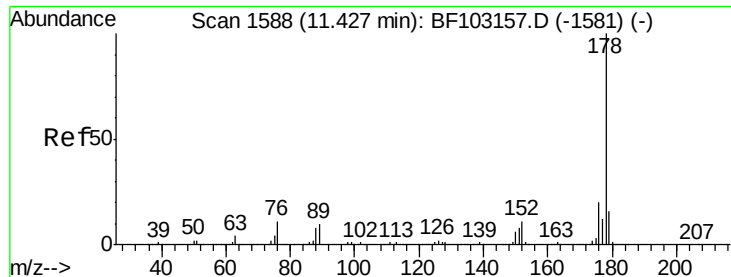
Tot Ion:166 Resp: 56057
 Ion Ratio Lower Upper
 166 100
 165 96.4 79.8 119.8
 167 14.4 10.6 16.0



#63
 Phenanthrene-d10
 Concen: 20.00 ng
 RT: 11.404 min Scan# 1584
 Delta R.T. -0.000 min
 Lab File: BF103330.D
 Acq: 1 Mar 2018 12:22

Tgt Ion:188 Resp: 387113
 Ion Ratio Lower Upper
 188 100
 94 11.9 8.5 12.7
 80 13.4 9.2 13.8





#70

Phenanthrene

Concen: 36.52 ng

RT: 11.433 min Scan# 1588

Delta R.T. -0.000 min

Lab File: BF103330.D

Acq: 1 Mar 2018 12:22

Instrument :

BNA_F

ClientSampleId :

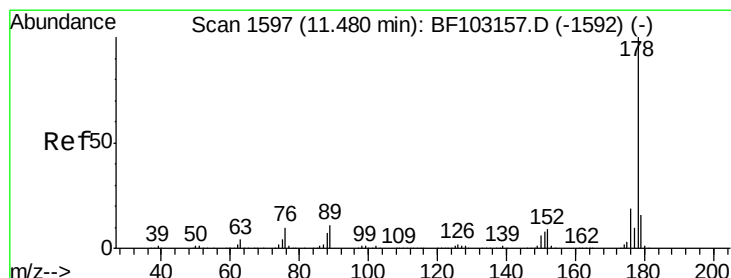
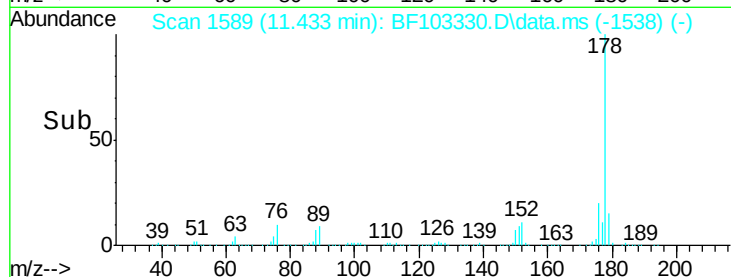
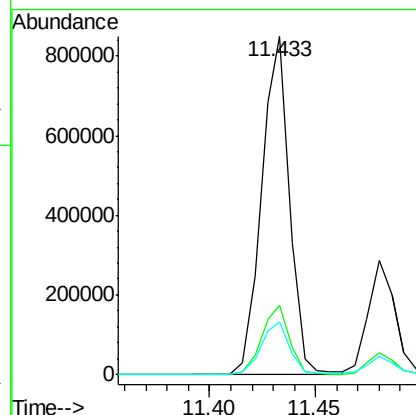
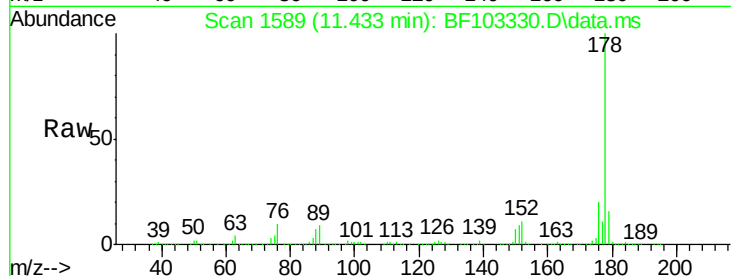
Tot Ion:178 Resp: 778129

Ion Ratio Lower Upper

178 100

176 20.4 15.8 23.8

179 15.5 13.0 19.6



#71

Anthracene

Concen: 11.86 ng

RT: 11.480 min Scan# 1597

Delta R.T. -0.006 min

Lab File: BF103330.D

Acq: 1 Mar 2018 12:22

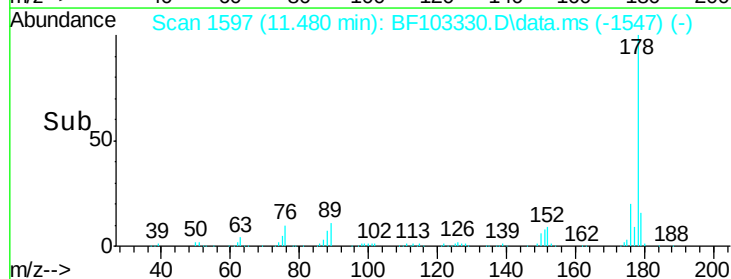
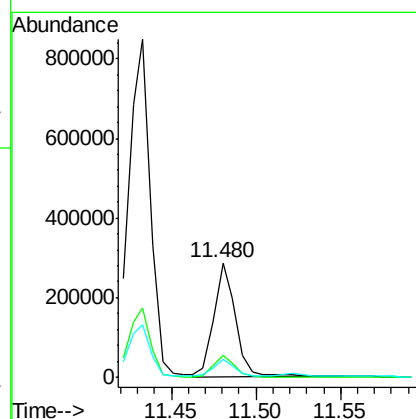
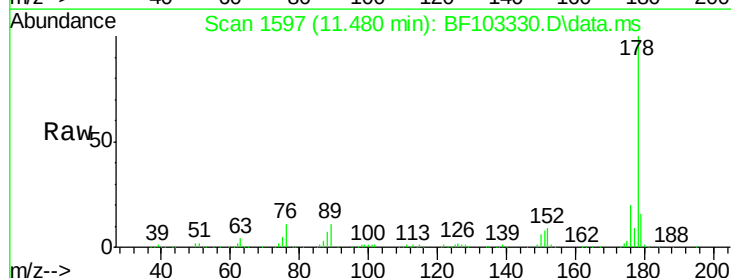
Tgt Ion:178 Resp: 258988

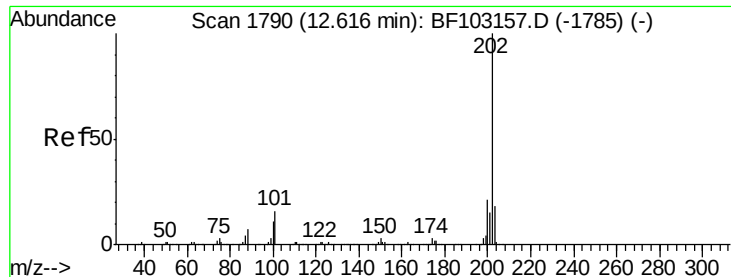
Ion Ratio Lower Upper

178 100

176 19.5 15.4 23.2

179 16.1 12.6 19.0





#74

Fluoranthene

Concen: 30.85 ng

RT: 12.621 min Scan# 1790

Delta R.T. -0.000 min

Lab File: BF103330.D

Acq: 1 Mar 2018 12:22

Instrument :

BNA_F

ClientSampleId :

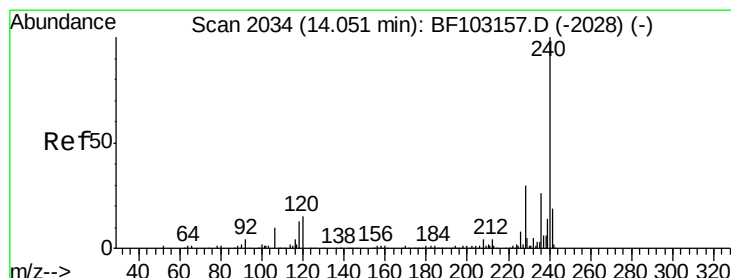
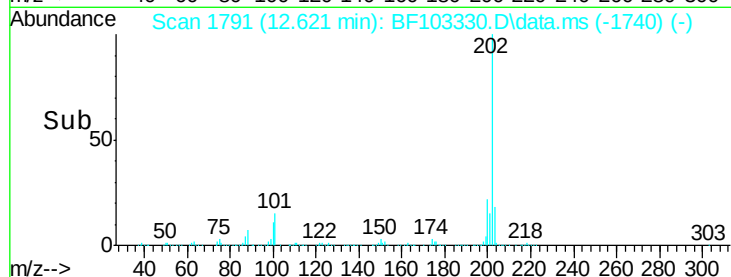
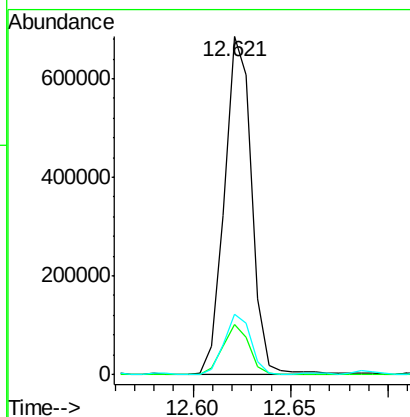
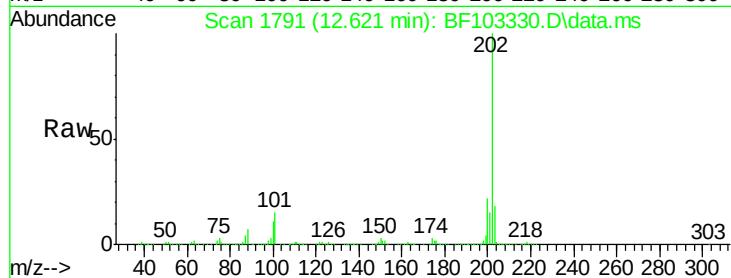
Tot Ion:202 Resp: 660448

Ion Ratio Lower Upper

202 100

101 14.8 0.0 34.1

203 17.7 0.0 38.1



#75

Chrysene-d12

Concen: 20.00 ng

RT: 14.057 min Scan# 2035

Delta R.T. -0.000 min

Lab File: BF103330.D

Acq: 1 Mar 2018 12:22

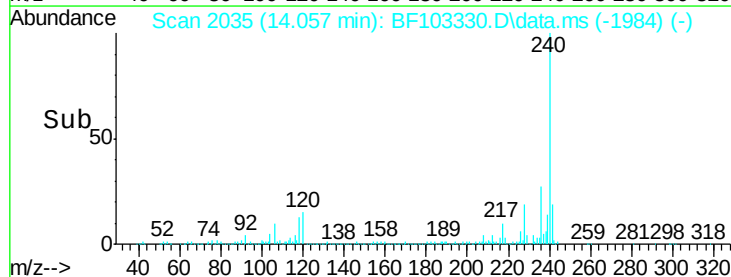
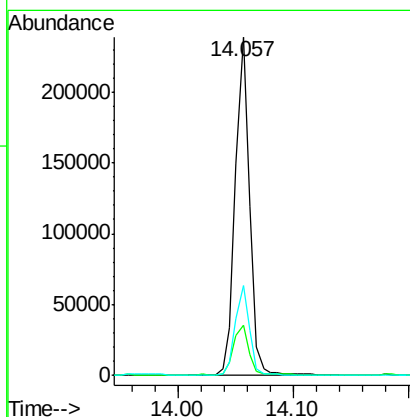
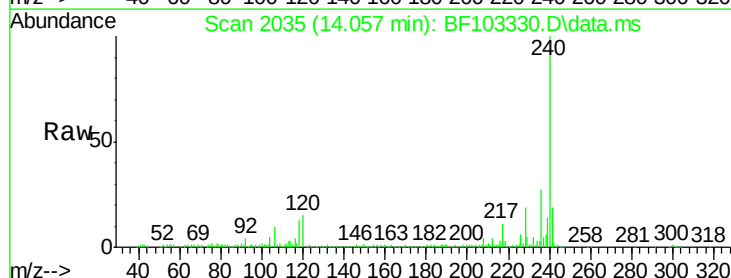
Tgt Ion:240 Resp: 204836

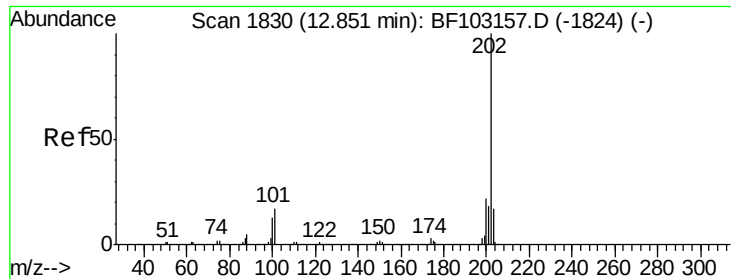
Ion Ratio Lower Upper

240 100

120 14.8 9.5 14.3#

236 26.5 20.7 31.1





#77

Pvrene

Concen: 36.12 ng

RT: 12.857 min Scan# 1830

Delta R.T. -0.000 min

Lab File: BF103330.D

Acq: 1 Mar 2018 12:22

Instrument :

BNA_F

ClientSampleId :

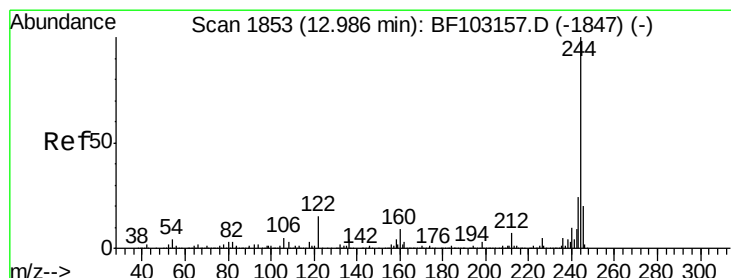
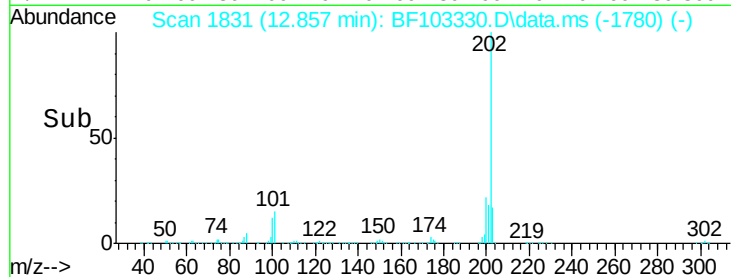
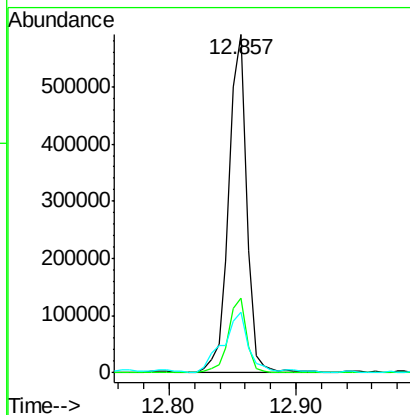
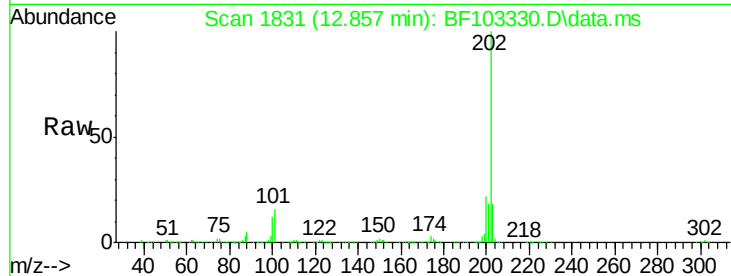
Tot Ion:202 Resp: 576862

Ion Ratio Lower Upper

202 100

200 22.0 17.4 26.2

203 17.7 14.3 21.5



#78

Terphenyl-d14

Concen: 21.87 ng

RT: 12.986 min Scan# 1853

Delta R.T. -0.006 min

Lab File: BF103330.D

Acq: 1 Mar 2018 12:22

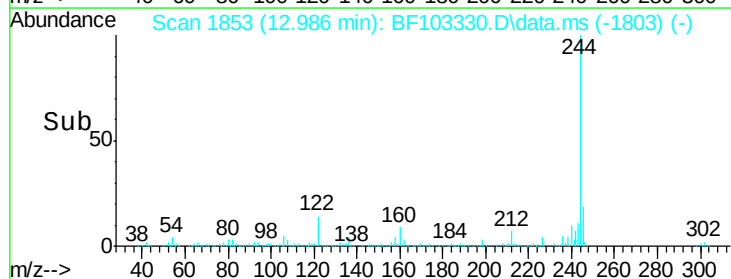
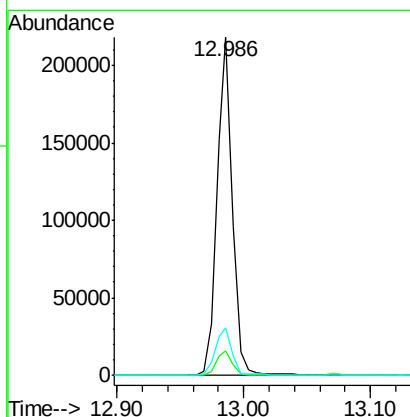
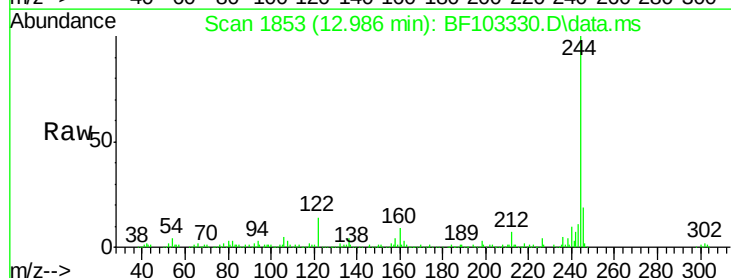
Tgt Ion:244 Resp: 186357

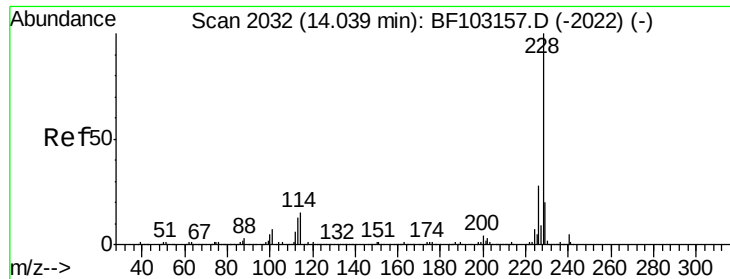
Ion Ratio Lower Upper

244 100

212 7.2 5.4 8.0

122 14.2 11.0 16.4





#80

Benzo(a)anthracene

Concen: 18.14 ng

RT: 14.045 min Scan# 2032

Delta R.T. -0.000 min

Lab File: BF103330.D

Acq: 1 Mar 2018 12:22

Instrument :

BNA_F

ClientSampleId :

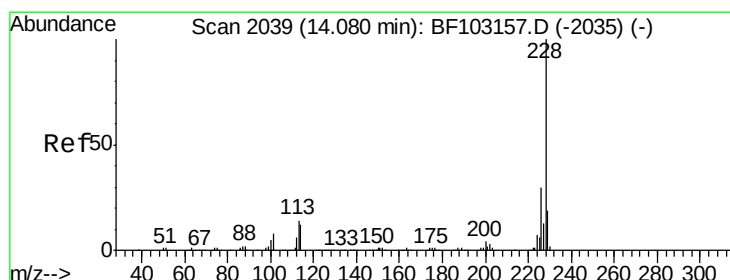
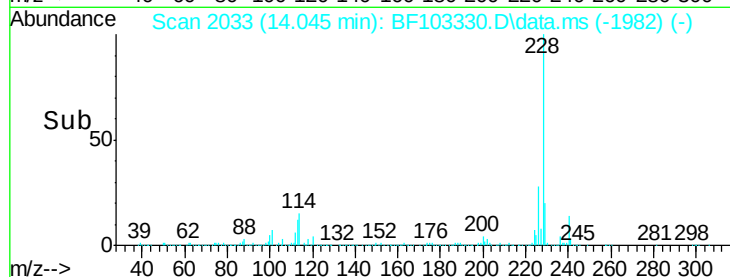
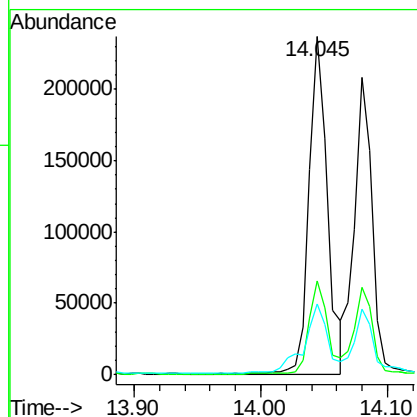
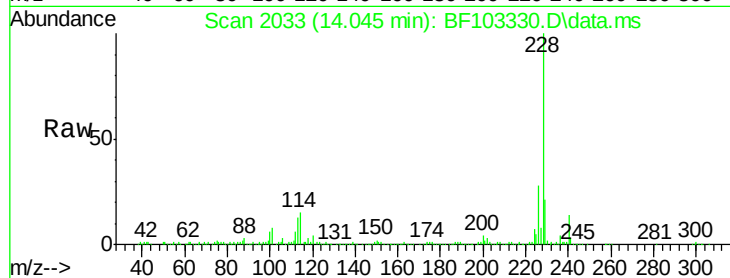
Tot Ion:228 Resp: 241060

Ion Ratio Lower Upper

228 100

226 27.7 22.6 33.8

229 20.8 15.8 23.6



#82

Chrysene

Concen: 15.74 ng

RT: 14.080 min Scan# 2039

Delta R.T. -0.006 min

Lab File: BF103330.D

Acq: 1 Mar 2018 12:22

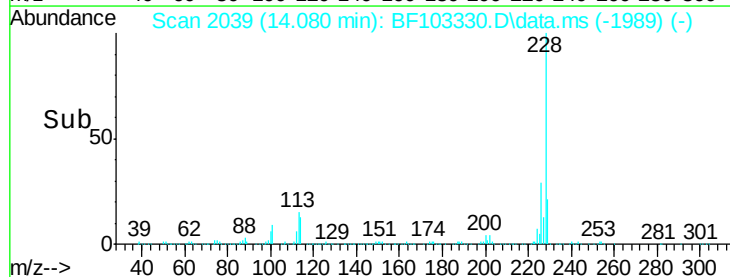
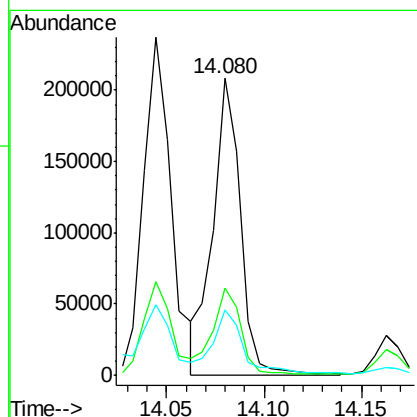
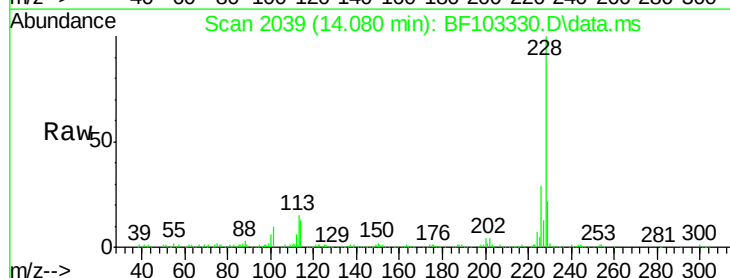
Tgt Ion:228 Resp: 203071

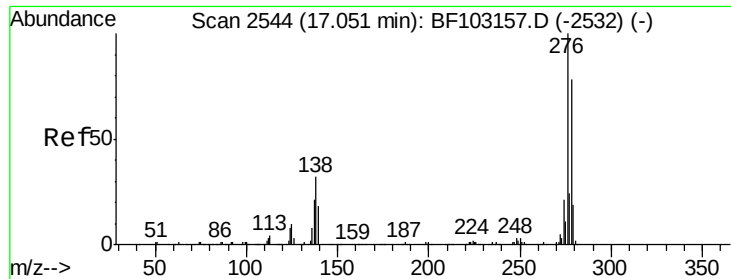
Ion Ratio Lower Upper

228 100

226 29.4 25.0 37.6

229 21.8 16.2 24.4

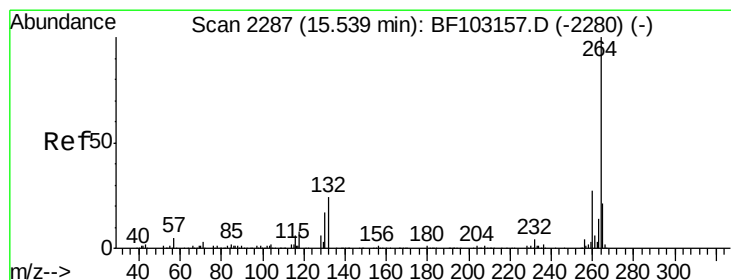
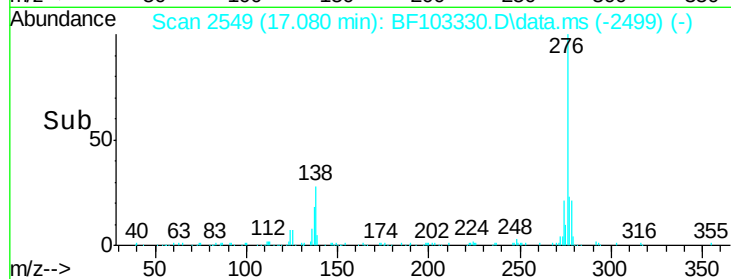
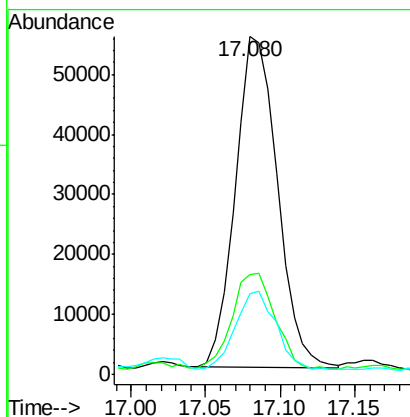
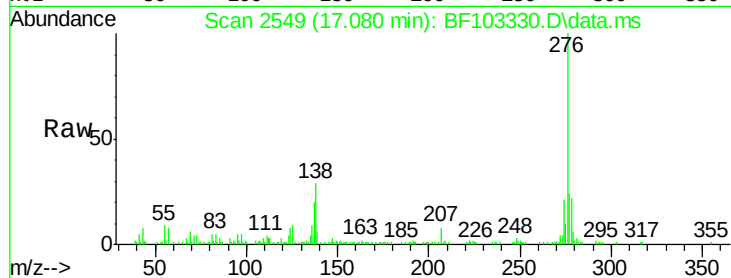




#85
 Indeno(1,2,3-cd)pyrene
 Concen: 10.54 ng
 RT: 17.080 min Scan# 2544
 Delta R.T. -0.006 min
 Lab File: BF103330.D
 Acq: 1 Mar 2018 12:22

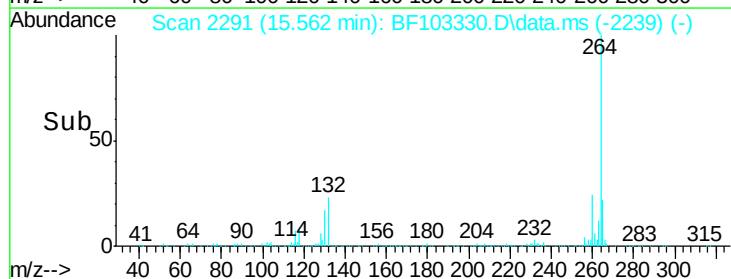
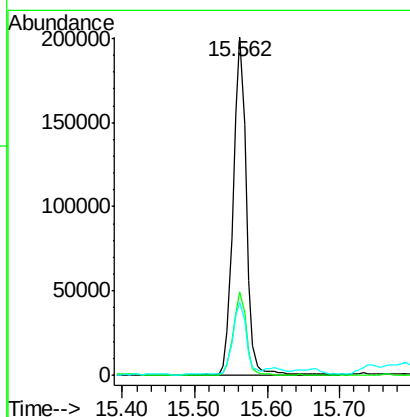
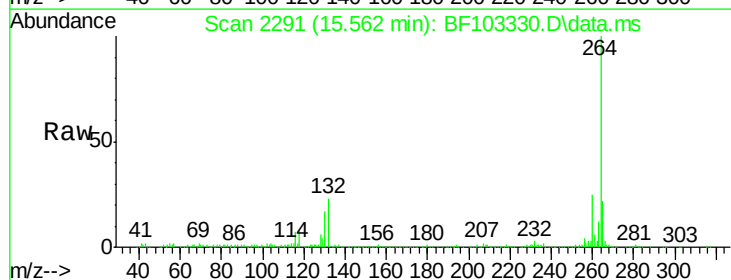
Instrument :
 BNA_F
 ClientSampleId :

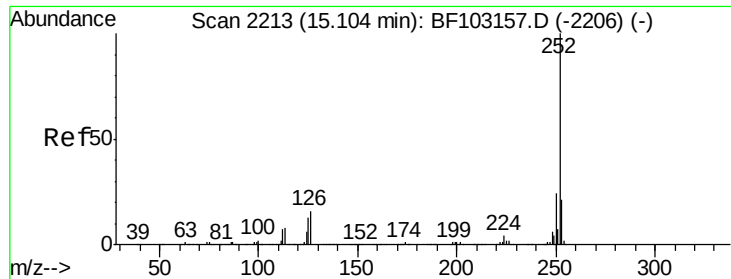
Tot Ion	Ratio	Lower	Upper
276	100		
138	31.1	25.0	37.6
277	23.2	20.1	30.1



#86
 Perylene-d12
 Concen: 20.00 ng
 RT: 15.562 min Scan# 2291
 Delta R.T. 0.006 min
 Lab File: BF103330.D
 Acq: 1 Mar 2018 12:22

Tgt Ion	Ratio	Lower	Upper
264	100		
260	24.6	19.2	28.8
265	21.5	17.5	26.3

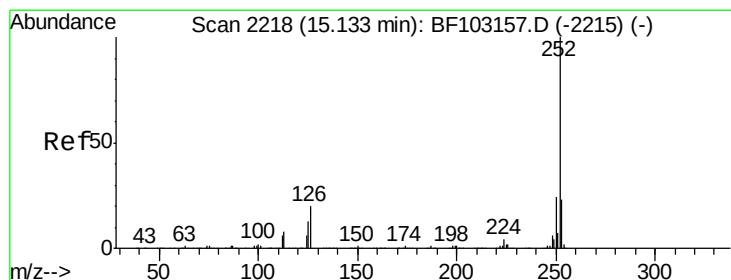
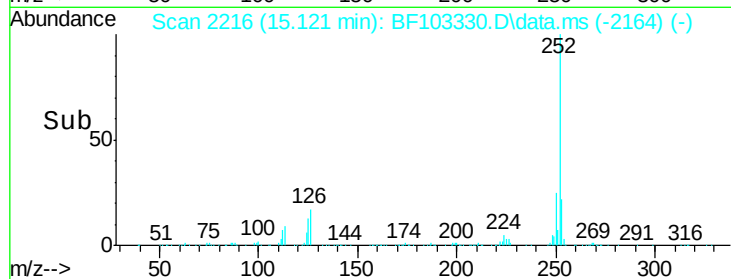
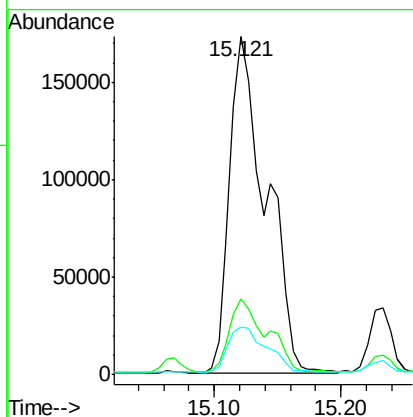
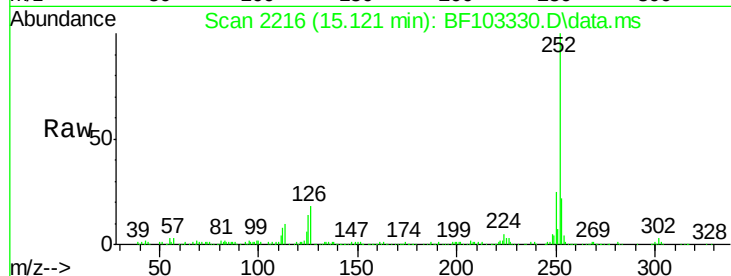




#87
Benzo(b)fluoranthene
Concen: 20.56 ng
RT: 15.121 min Scan# 2213
Delta R.T. 0.006 min
Lab File: BF103330.D
Acq: 1 Mar 2018 12:22

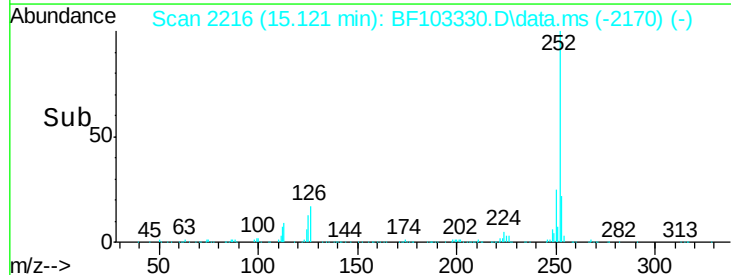
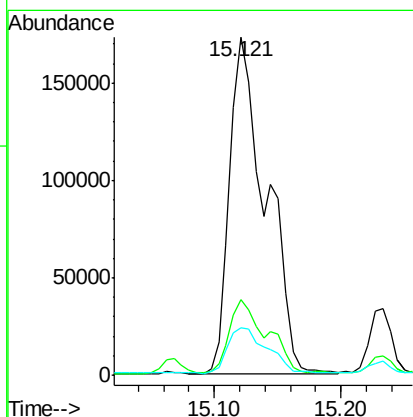
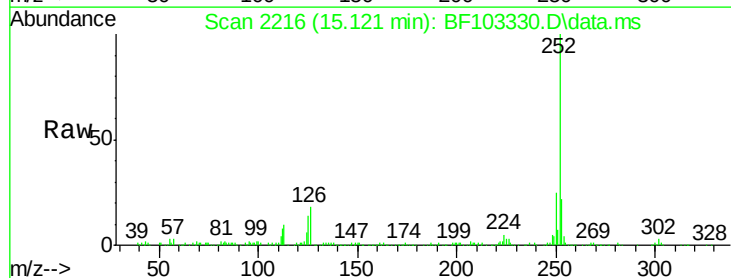
Instrument :
BNA_F
ClientSampleId :

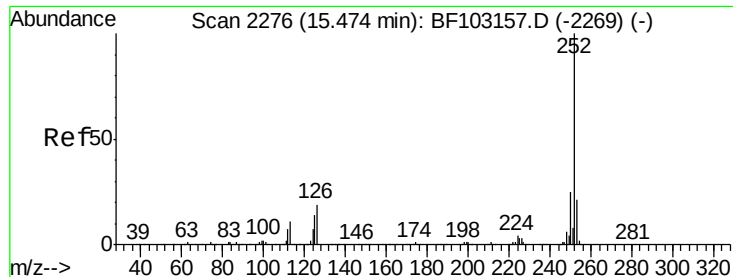
Tot Ion	Ratio	Lower	Upper
252	100		
253	22.4	17.0	25.6
125	14.0	9.0	13.6



#88
Benzo(k)fluoranthene
Concen: 21.83 ng
RT: 15.121 min Scan# 2216
Delta R.T. -0.030 min
Lab File: BF103330.D
Acq: 1 Mar 2018 12:22

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.4	17.9	26.9
125	14.0	10.2	15.2





#89

Benzo(a)pyrene

Concen: 14.12 ng

RT: 15.498 min Scan# 2276

Delta R.T. -0.000 min

Lab File: BF103330.D

Acq: 1 Mar 2018 12:22

Instrument :

BNA_F

ClientSampleId :

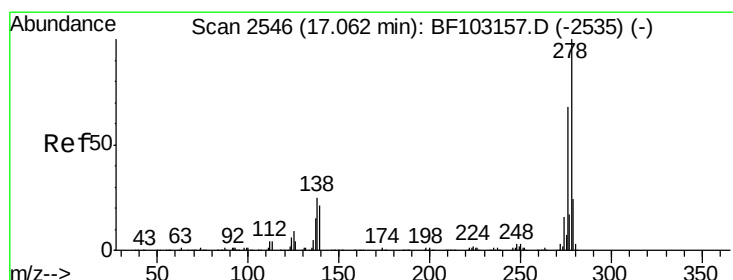
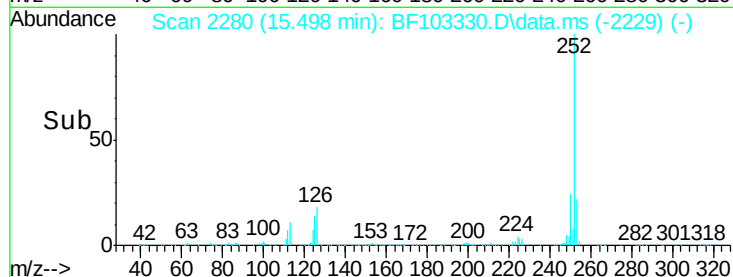
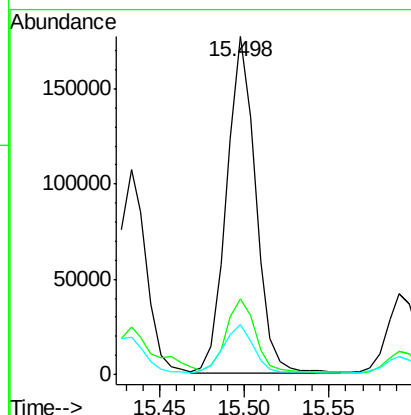
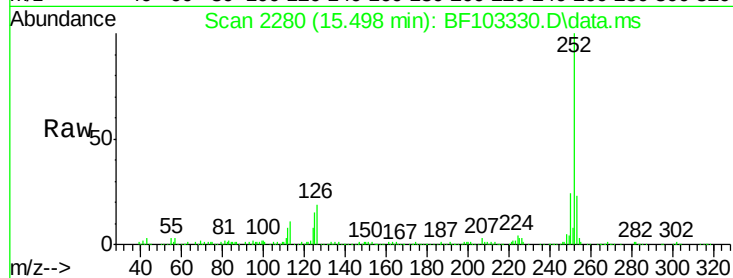
Tot Ion:252 Resp: 211787

Ion Ratio Lower Upper

252 100

253 22.6 17.1 25.7

125 14.8 9.8 14.6#



#90

Dibenzo(a,h)anthracene

Concen: 2.34 ng

RT: 17.268 min Scan# 2581

Delta R.T. 0.176 min

Lab File: BF103330.D

Acq: 1 Mar 2018 12:22

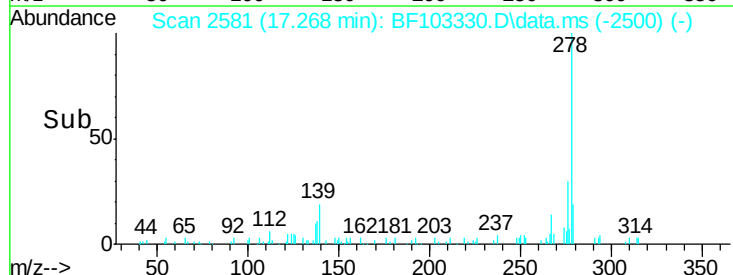
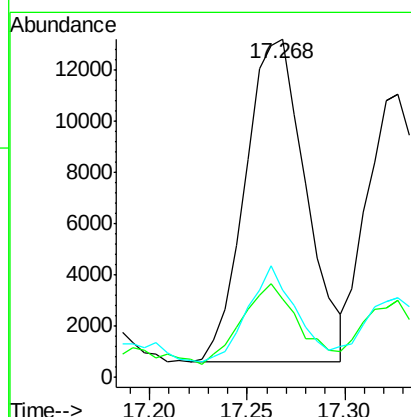
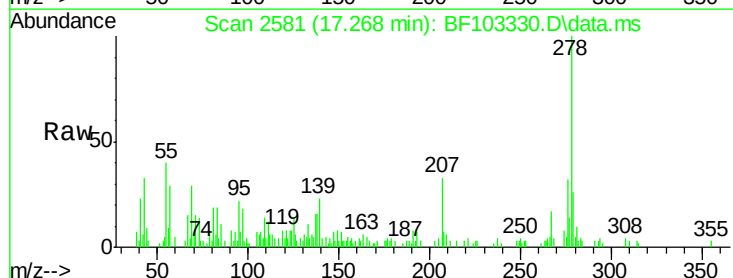
Tgt Ion:278 Resp: 27165

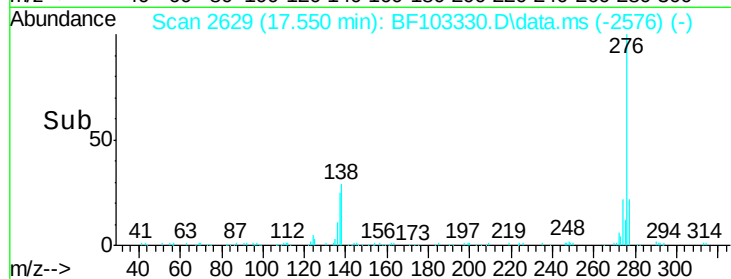
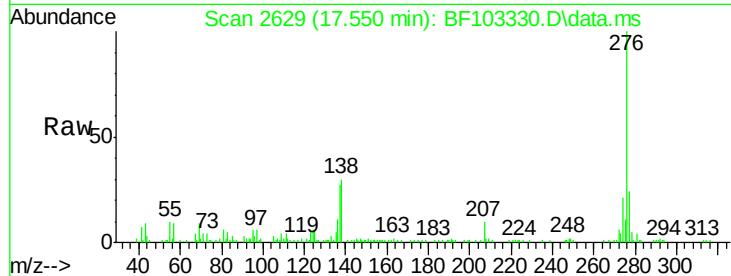
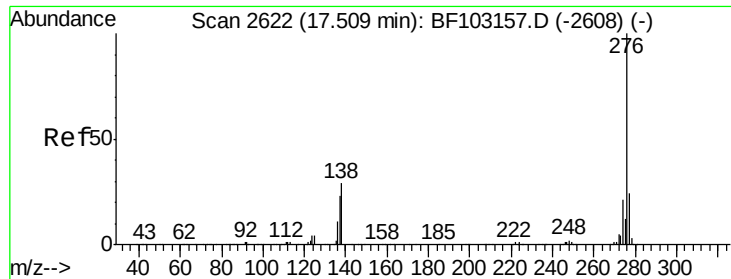
Ion Ratio Lower Upper

278 100

139 23.2 15.9 23.9

279 25.7 19.0 28.4





#91

Benzo(a,h,i)perylene

Concen: 8.53 ng

RT: 17.550 min Scan# 26

Delta R.T. 0.012 min

Lab File: BF103330.D

Acq: 1 Mar 2018 12:22

Instrument :

BNA_F

ClientSampleId :

Tot Ion:276 Resp: 96566

Ion Ratio Lower Upper

276 100

277 23.8 17.9 26.9

138 30.1 21.8 32.8

