

Data Path : Z:\HPCHEM1\BNA F\Data\BF103116\
 Data File : BF090946.D
 Acq On : 31 Oct 2016 23:27
 Operator : UM/SJ
 Sample : H5411-05
 Misc :
 ALS Vial : 26 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Nov 01 10:39:48 2016
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF102616.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Oct 28 15:18:12 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.750	152	143042	20.00	ng	-0.01
21) Naphthalene-d8	8.030	136	447291	20.00	ng	-0.02
38) Acenaphthene-d10	9.790	164	276812	20.00	ng	-0.02
63) Phenanthrene-d10	11.265	188	350700	20.00	ng	-0.02
75) Chrysene-d12	13.905	240	359996	20.00	ng	-0.02
86) Perylene-d12	15.311	264	286501	20.00	ng	-0.02

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.344	112	847060	103.54	ng	-0.01
7) Phenol-d6	6.396	99	1282830	116.22	ng	-0.02
23) Nitrobenzene-d5	7.310	82	649843	95.11	ng	-0.02
41) 2,4,6-Tribromophenol	10.579	330	290768	102.21	ng	-0.02
44) 2-Fluorobiphenyl	9.116	172	941170	59.70	ng	-0.02
78) Terphenyl-d14	12.854	244	698038	48.85	ng	-0.02

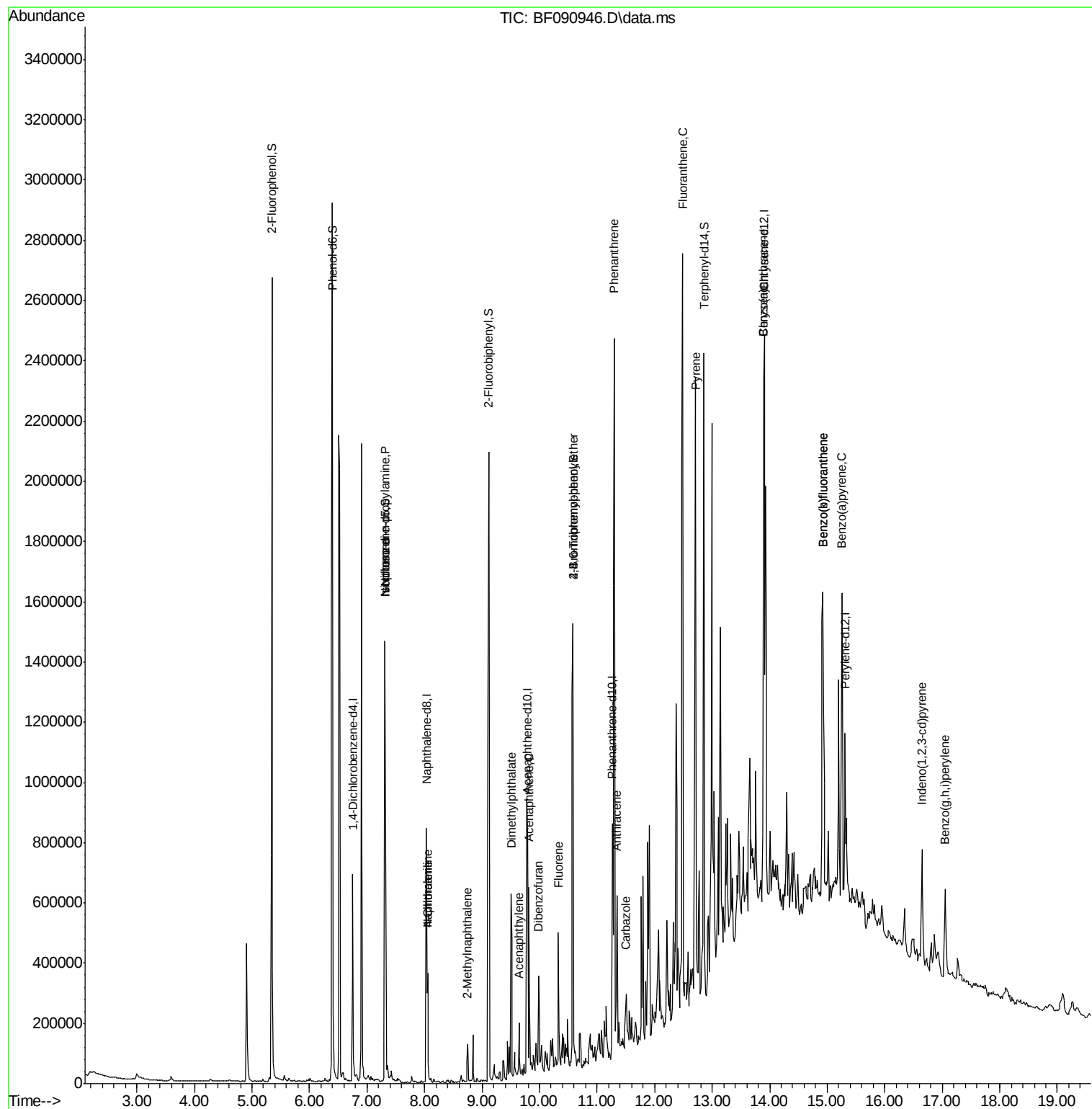
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
19) n-Nitroso-di-n-propyla...	7.310	70	85280	13.36	ng	# 51
25) Isophorone	7.310	82	598521	43.16	ng	# 58
31) Naphthalene	8.053	128	163015	7.80	ng	99
33) 4-Chloroaniline	8.053	127	20361	2.41	ng	# 34
37) 2-Methylnaphthalene	8.750	142	50338	3.73	ng	96
48) Acenaphthylene	9.642	152	56726	2.47	ng	# 94
49) Dimethylphthalate	9.505	163	394742	21.34	ng	# 97
51) Acenaphthene	9.813	154	137339	8.68	ng	90
54) Dibenzofuran	9.985	168	111920	5.48	ng	# 79
57) Fluorene	10.328	166	123442	7.38	ng	92
66) 4-Bromophenyl-phenylether	10.579	248	17116	4.46	ng	# 1
70) Phenanthrene	11.299	178	1279532	71.65	ng	96
71) Anthracene	11.345	178	262770	13.97	ng	98
72) Carbazole	11.505	167	70973	4.27	ng	94
74) Fluoranthene	12.488	202	1412067	72.20	ng	84
77) Pyrene	12.716	202	1367906	60.04	ng	96
80) Benzo(a)anthracene	13.894	228	830031	43.44	ng	# 91
82) Chrysene	13.894	228	830031	42.95	ng	93
85) Indeno(1,2,3-cd)pyrene	16.648	276	278091	16.24	ng	# 77
87) Benzo(b)fluoranthene	14.922	252	921842	47.85	ng	# 86
88) Benzo(k)fluoranthene	14.922	252	921842	60.55	ng	# 86
89) Benzo(a)pyrene	15.254	252	527486	31.87	ng	# 83
91) Benzo(g,h,i)perylene	17.048	276	263117	19.94	ng	# 74

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

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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.750 min Scan# 40

Delta R.T. -0.011 min

Lab File: BF090946.D

Acq: 31 Oct 2016 23:27

Instrument :

BNA_F

ClientSampleId :

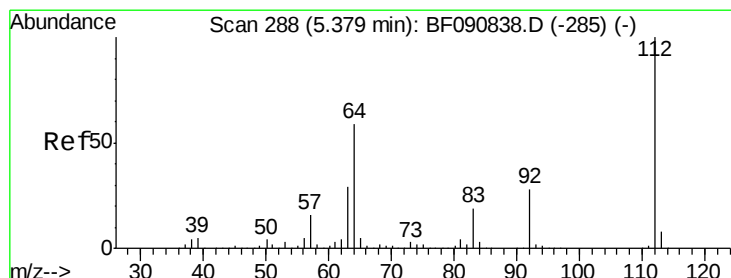
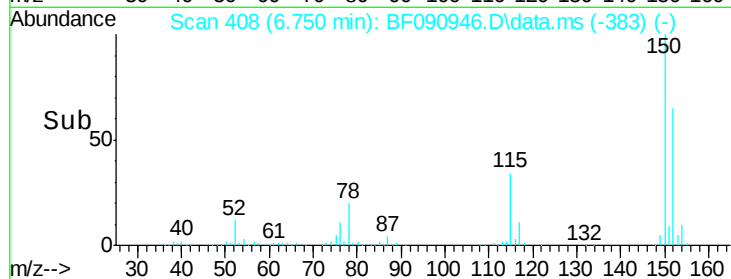
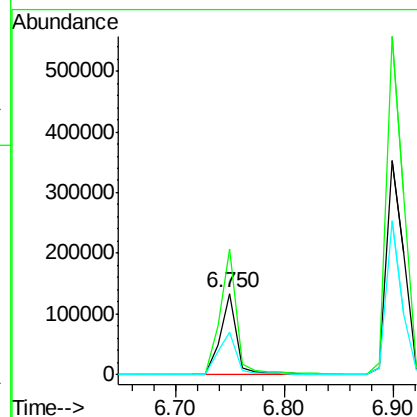
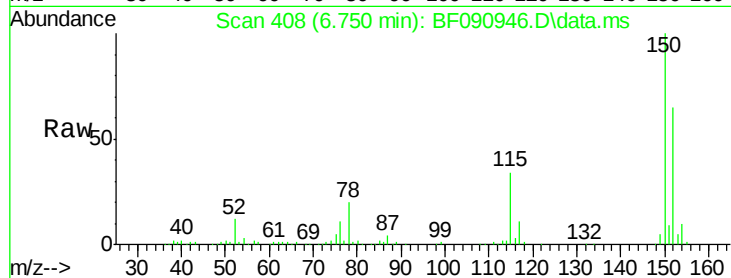
Tot Ion:152 Resp: 143042

Ion Ratio Lower Upper

152 100

150 153.7 124.7 187.1

115 51.8 39.0 58.4



#5

2-Fluorophenol

Concen: 103.54 ng

RT: 5.344 min Scan# 285

Delta R.T. -0.011 min

Lab File: BF090946.D

Acq: 31 Oct 2016 23:27

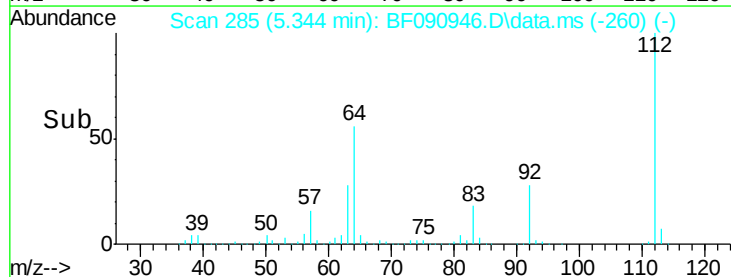
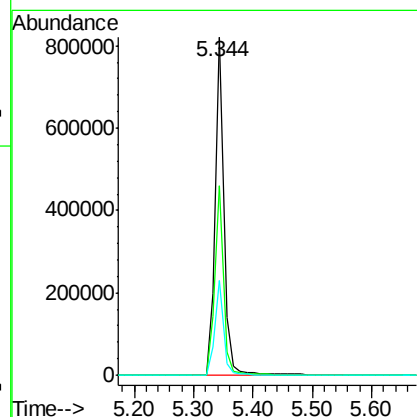
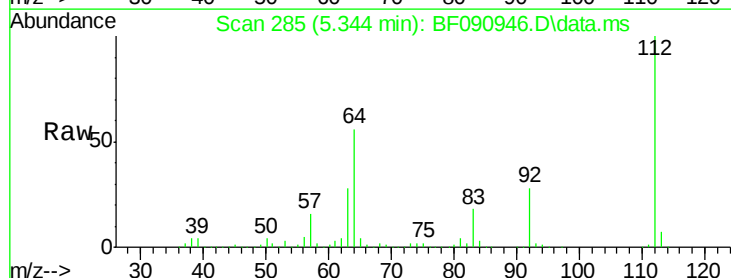
Tgt Ion:112 Resp: 847060

Ion Ratio Lower Upper

112 100

64 56.2 39.7 59.5

63 28.1 17.4 26.0#





#7

Phenol-d6

Concen: 116.22 ng

RT: 6.396 min Scan# 37

Delta R.T. -0.023 min

Lab File: BF090946.D

Acq: 31 Oct 2016 23:27

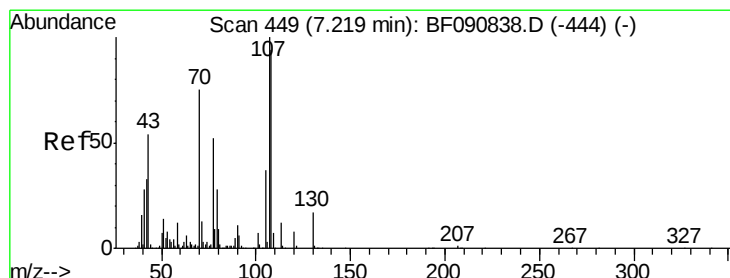
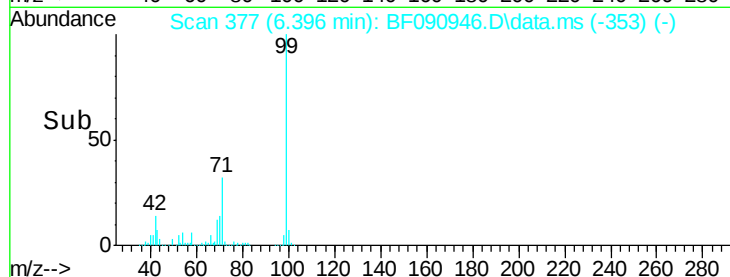
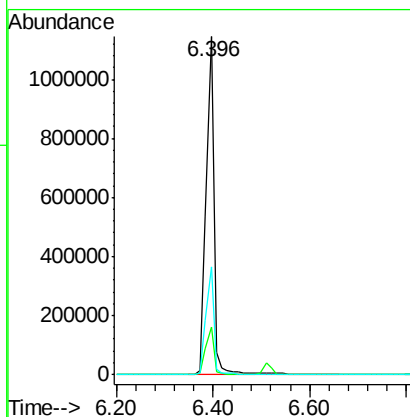
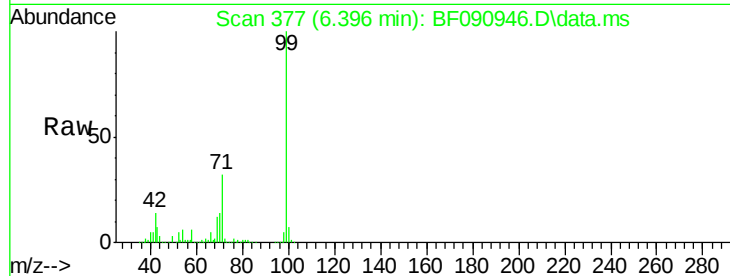
Instrument :

BNA_F

ClientSampleId :

Tot Ion: 99 Resp: 1282830

Ion	Ratio	Lower	Upper
99	100		
42	14.1	13.7	20.5
71	31.9	14.2	21.2#



#19

n-Nitroso-di-n-propylamine

Concen: 13.36 ng

RT: 7.310 min Scan# 457

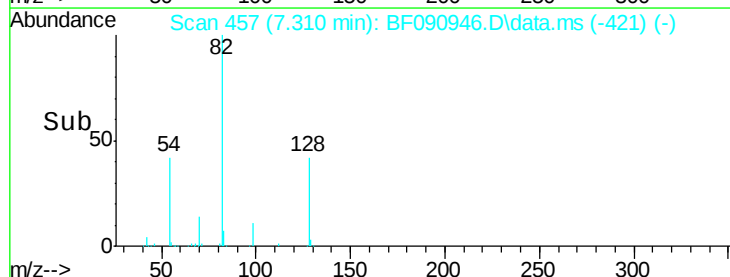
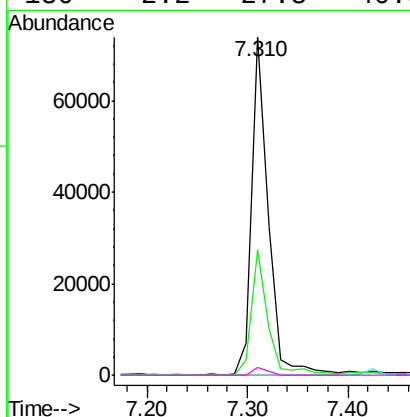
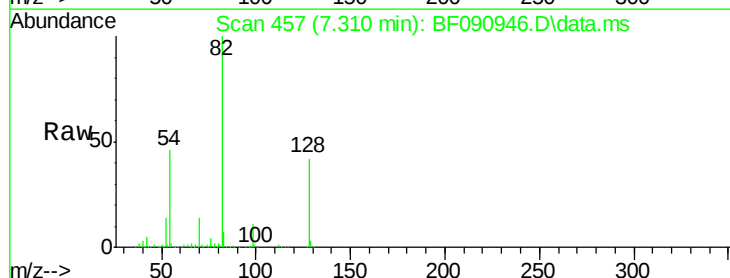
Delta R.T. 0.114 min

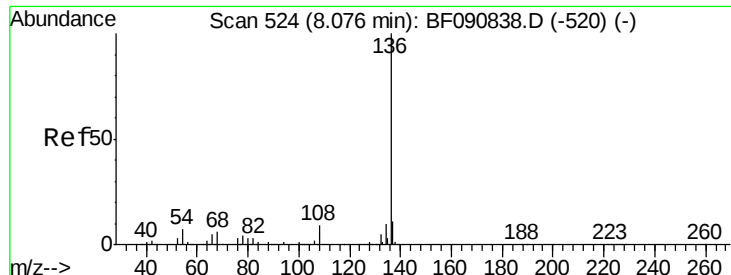
Lab File: BF090946.D

Acq: 31 Oct 2016 23:27

Tgt Ion: 70 Resp: 85280

Ion	Ratio	Lower	Upper
70	100		
42	37.3	63.8	95.6#
101	0.0	9.2	13.8#
130	2.2	27.3	40.9#





#21

Naphthalene-d8

Concen: 20.00 ng

RT: 8.030 min Scan# 52

Delta R.T. -0.023 min

Lab File: BF090946.D

Acq: 31 Oct 2016 23:27

Instrument :

BNA_F

ClientSampleId :

Tot Ion:136 Resp: 447291

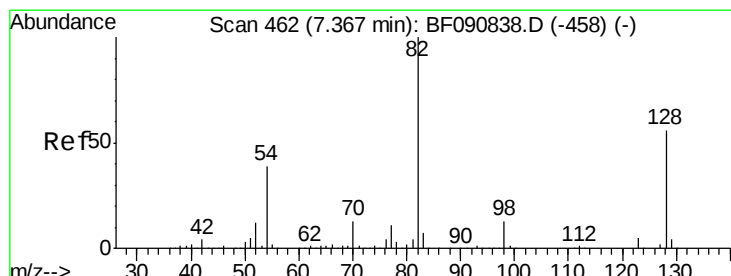
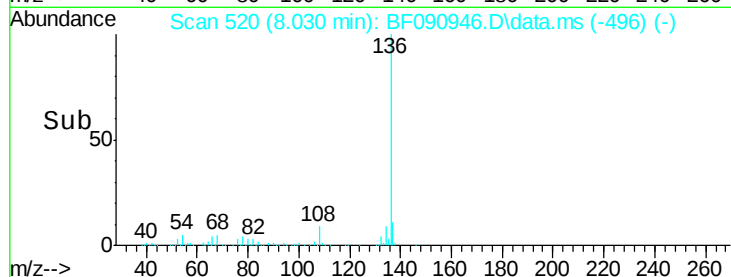
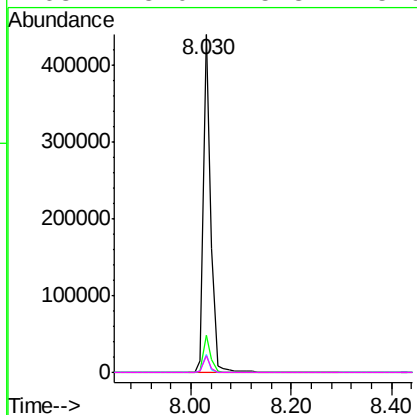
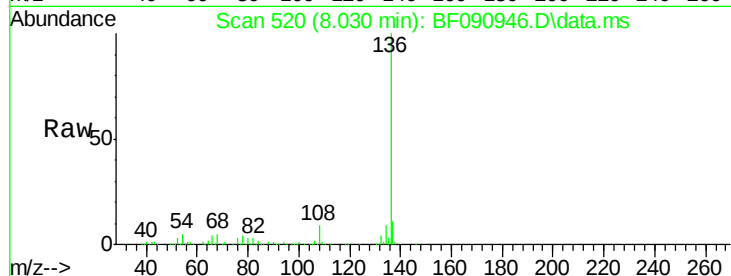
Ion Ratio Lower Upper

136 100

137 11.2 9.0 13.6

54 5.4 8.2 12.2#

68 5.0 5.8 8.6#



#23

Nitrobenzene-d5

Concen: 95.11 ng

RT: 7.310 min Scan# 457

Delta R.T. -0.023 min

Lab File: BF090946.D

Acq: 31 Oct 2016 23:27

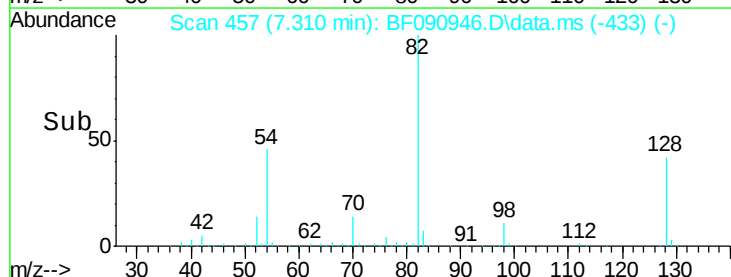
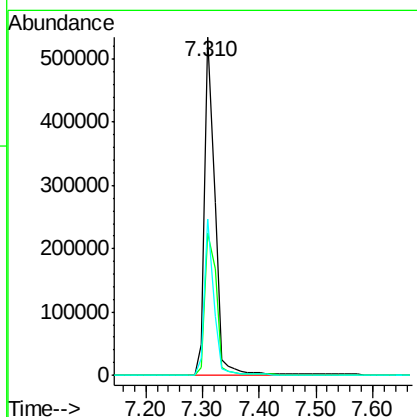
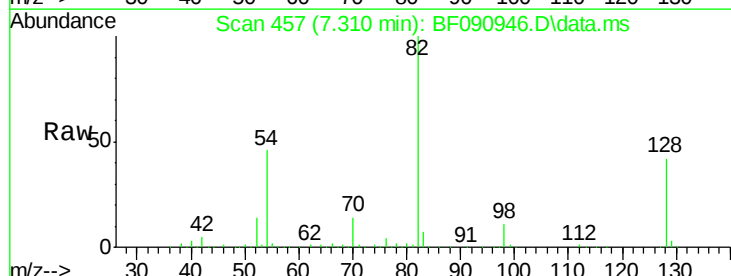
Tgt Ion: 82 Resp: 649843

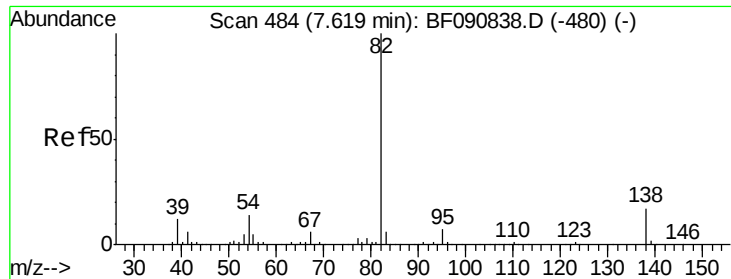
Ion Ratio Lower Upper

82 100

128 42.0 51.0 76.6#

54 46.4 47.5 71.3#





#25

Isophorone

Concen: 43.16 ng

RT: 7.310 min Scan# 45

Delta R.T. -0.286 min

Lab File: BF090946.D

Acq: 31 Oct 2016 23:27

Instrument :

BNA_F

ClientSampleId :

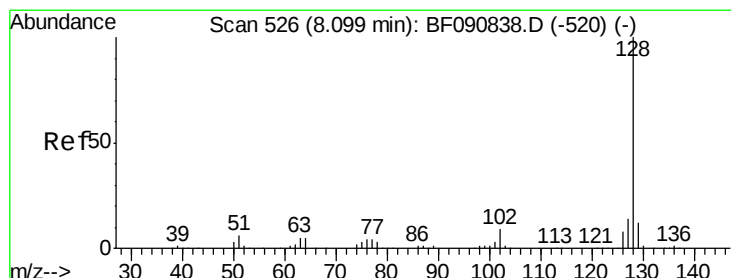
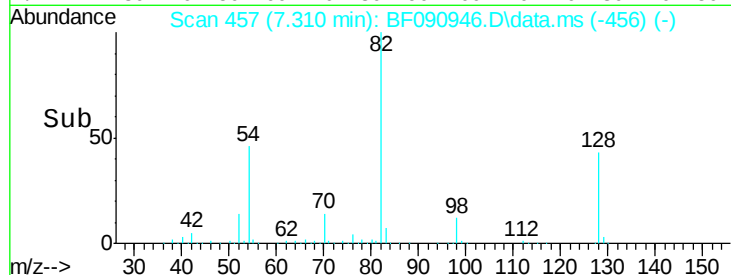
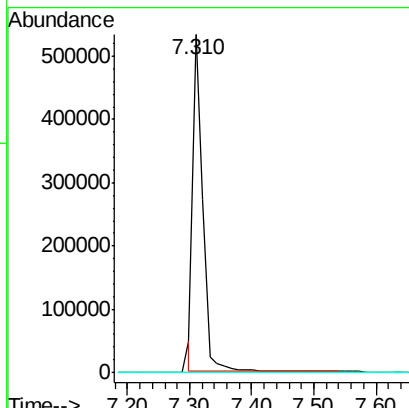
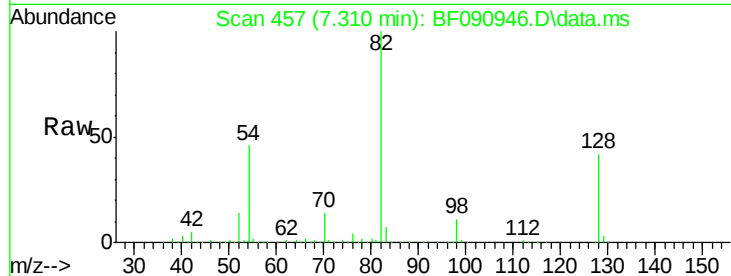
Tot Ion: 82 Resp: 598521

Ion Ratio Lower Upper

82 100

95 0.0 4.0 6.0#

138 0.0 18.3 27.5#



#31

Naphthalene

Concen: 7.80 ng

RT: 8.053 min Scan# 522

Delta R.T. -0.023 min

Lab File: BF090946.D

Acq: 31 Oct 2016 23:27

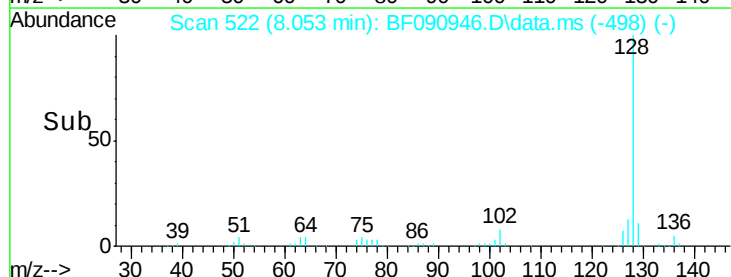
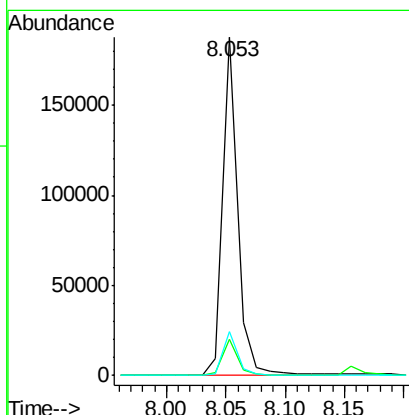
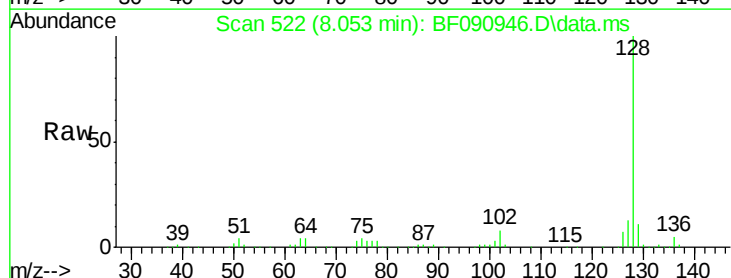
Tgt Ion: 128 Resp: 163015

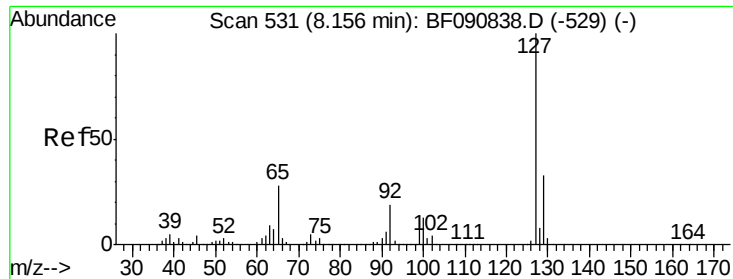
Ion Ratio Lower Upper

128 100

129 10.8 8.4 12.6

127 12.8 9.9 14.9

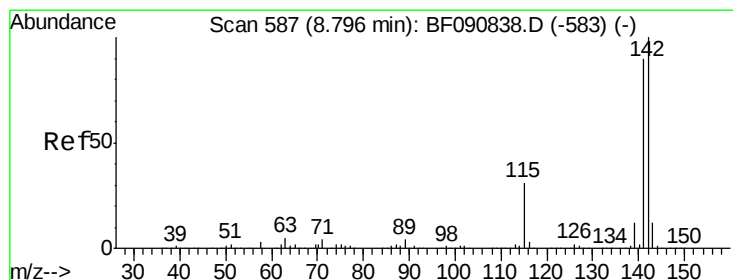
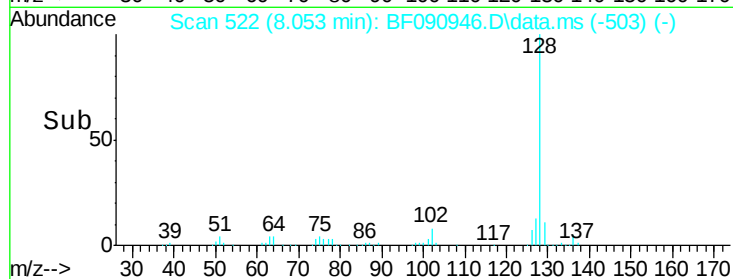
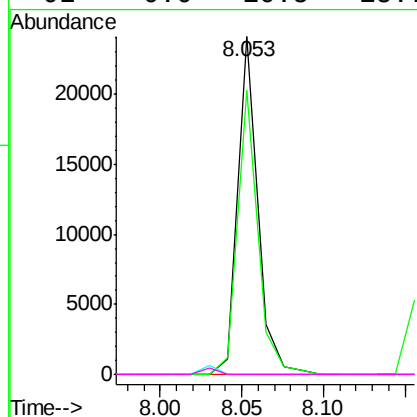
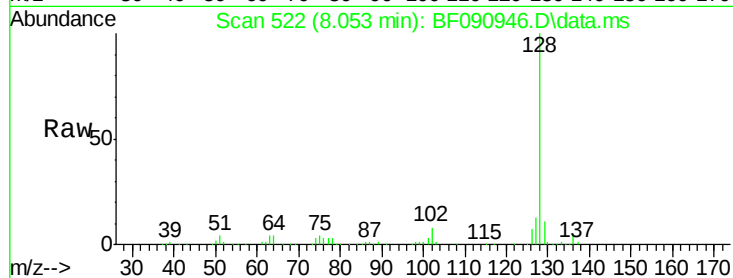




#33
4-Chloroaniline
Concen: 2.41 ng
RT: 8.053 min Scan# 52
Delta R.T. -0.080 min
Lab File: BF090946.D
Acq: 31 Oct 2016 23:27

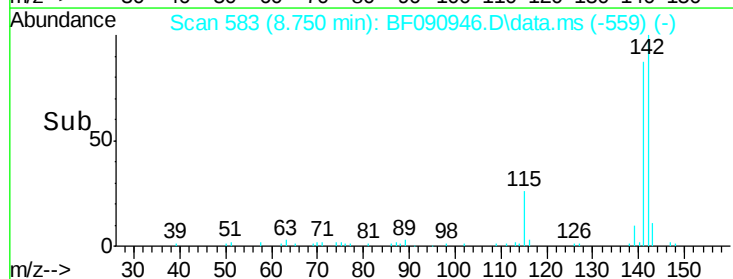
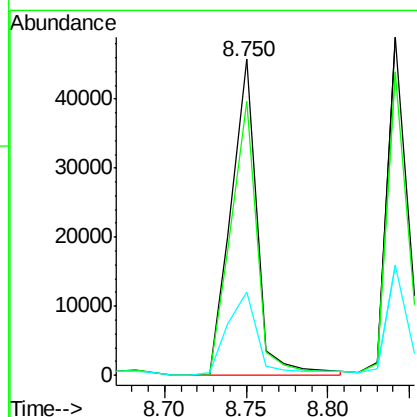
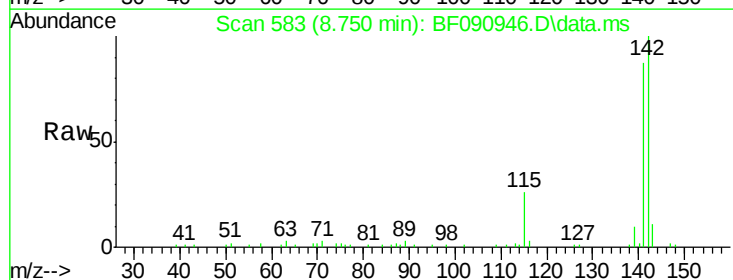
Instrument :
BNA_F
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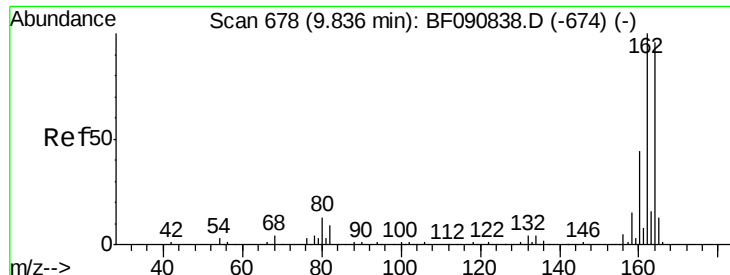
Tot Ion:	127	Resp:	20361
Ion	Ratio	Lower	Upper
127	100		
129	84.1	25.8	38.6#
65	0.0	17.9	26.9#
92	0.0	10.5	15.7#



#37
2-Methylnaphthalene
Concen: 3.73 ng
RT: 8.750 min Scan# 583
Delta R.T. -0.023 min
Lab File: BF090946.D
Acq: 31 Oct 2016 23:27

Tgt Ion:	142	Resp:	50338
Ion	Ratio	Lower	Upper
142	100		
141	86.7	67.5	101.3
115	26.5	18.2	27.2

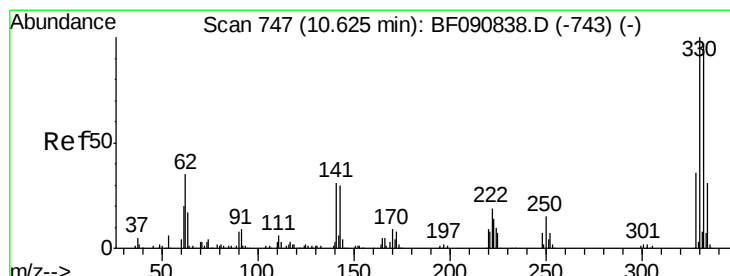
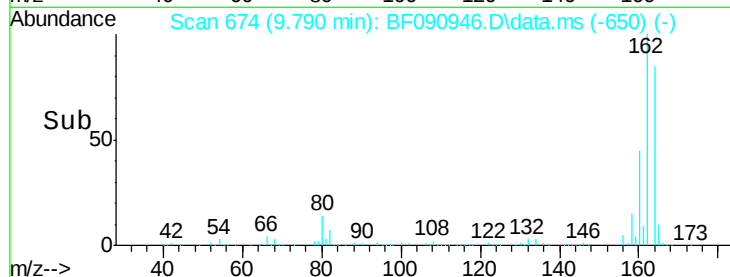
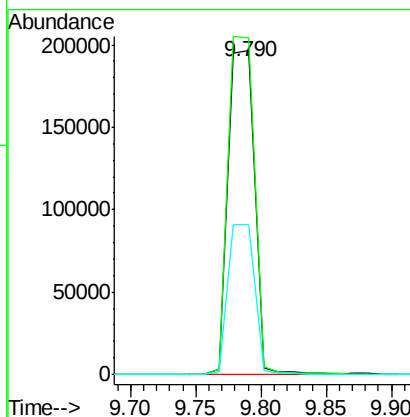
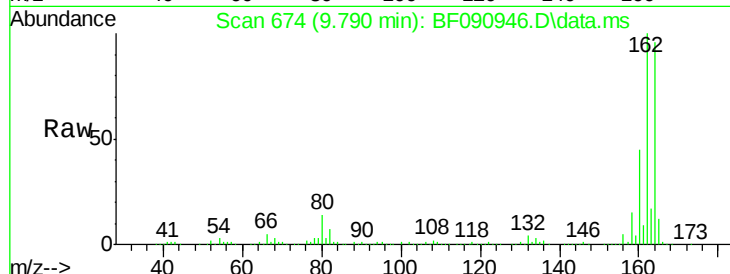




#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 9.790 min Scan# 67
Delta R.T. -0.023 min
Lab File: BF090946.D
Acq: 31 Oct 2016 23:27

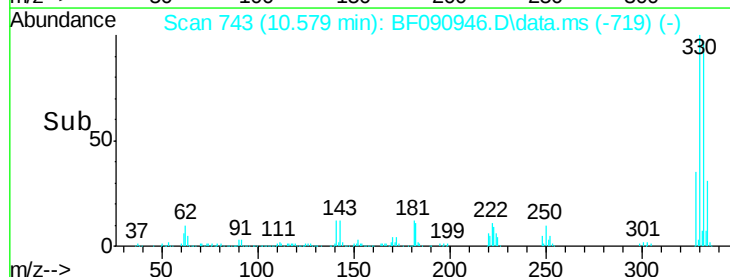
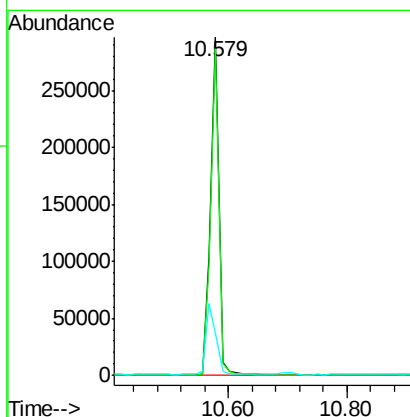
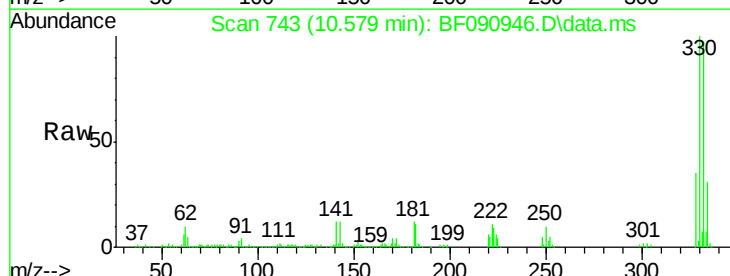
Instrument :
BNA_F
ClientSampleId :

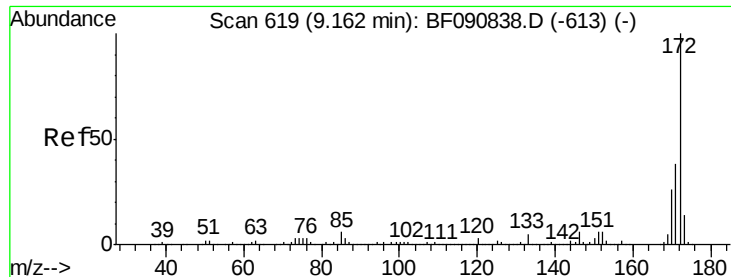
Tot Ion:164 Resp: 276812
Ion Ratio Lower Upper
164 100
162 104.0 75.2 112.8
160 46.4 31.5 47.3



#41
2,4,6-Tribromophenol
Concen: 102.21 ng
RT: 10.579 min Scan# 743
Delta R.T. -0.023 min
Lab File: BF090946.D
Acq: 31 Oct 2016 23:27

Tgt Ion:330 Resp: 290768
Ion Ratio Lower Upper
330 100
332 95.7 76.6 114.8
141 25.7 29.7 44.5#

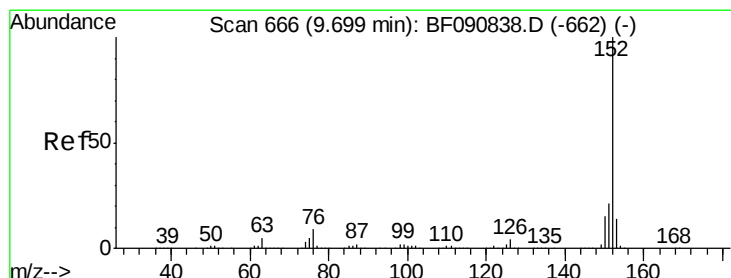
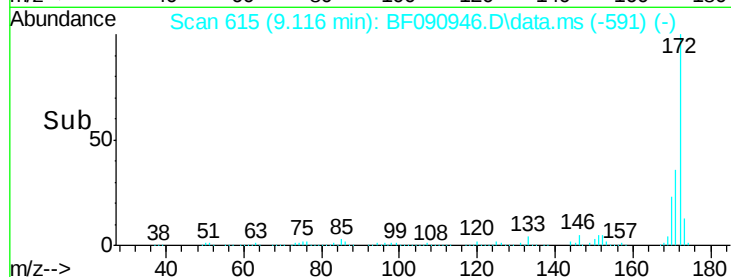
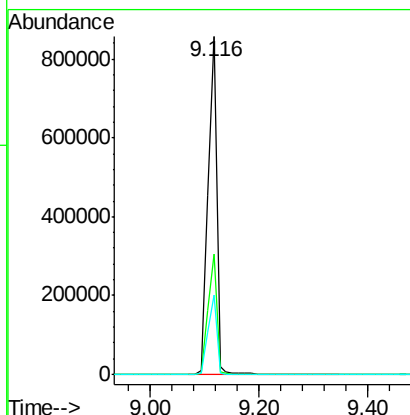
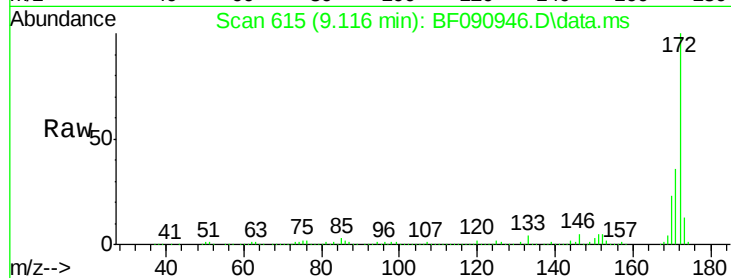




#44
 2-Fluorobiphenyl
 Concen: 59.70 ng
 RT: 9.116 min Scan# 61
 Delta R.T. -0.023 min
 Lab File: BF090946.D
 Acq: 31 Oct 2016 23:27

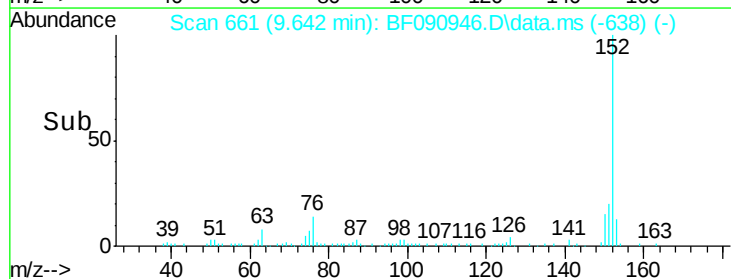
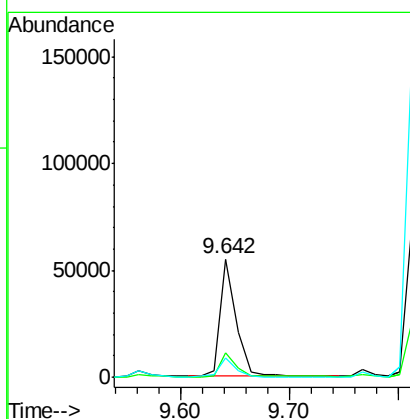
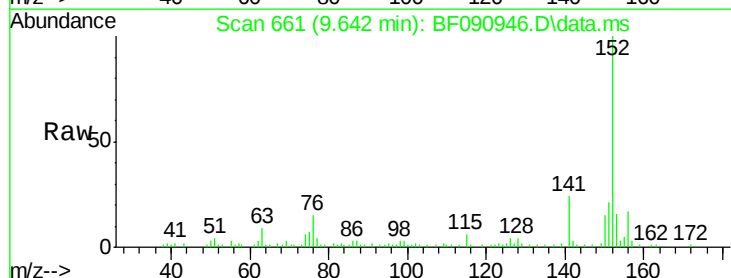
Instrument :
 BNA_F
 ClientSampleId :

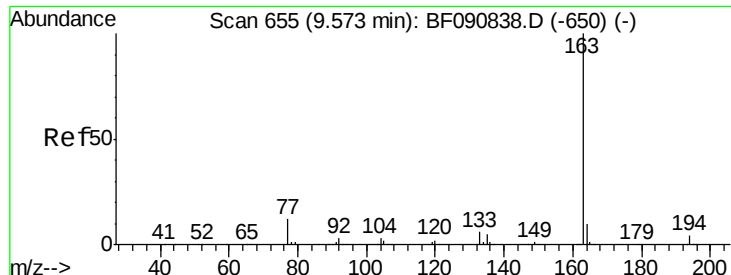
Tot Ion	Ratio	Lower	Upper
172	100		
171	35.8	26.1	39.1
170	23.4	17.4	26.2



#48
 Acenaphthylene
 Concen: 2.47 ng
 RT: 9.642 min Scan# 661
 Delta R.T. -0.034 min
 Lab File: BF090946.D
 Acq: 31 Oct 2016 23:27

Tgt Ion	Ratio	Lower	Upper
152	100		
151	20.7	14.6	22.0
153	16.0	10.3	15.5#





#49

Dimethylphthalate

Concen: 21.34 ng

RT: 9.505 min Scan# 64

Delta R.T. -0.034 min

Lab File: BF090946.D

Acq: 31 Oct 2016 23:27

Instrument :

BNA_F

ClientSampleId :

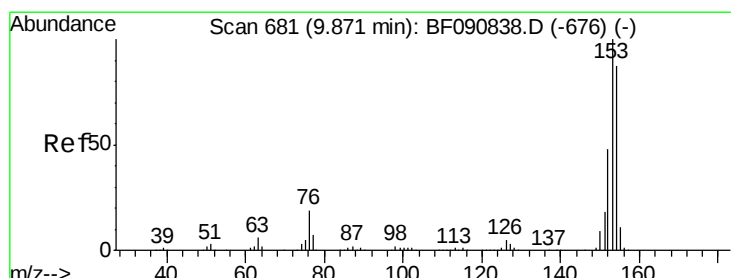
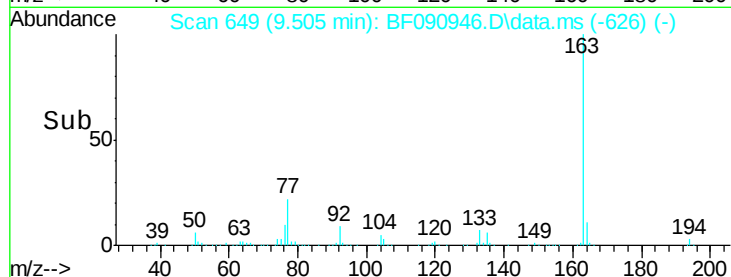
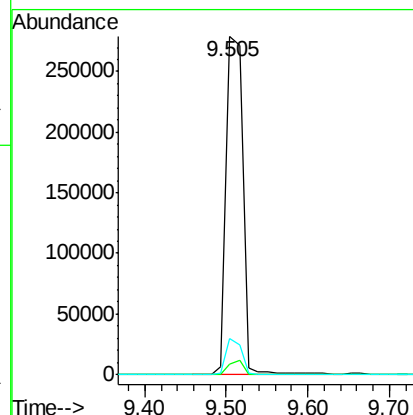
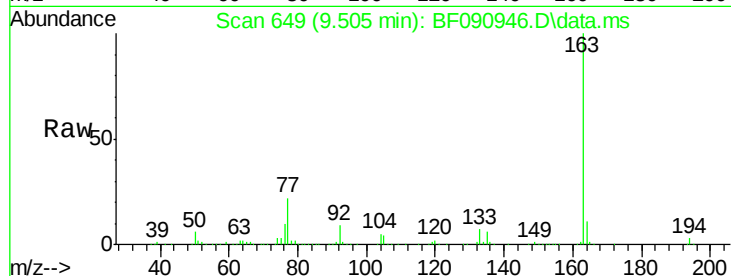
Tot Ion:163 Resp: 394742

Ion Ratio Lower Upper

163 100

194 3.1 4.4 6.6#

164 10.6 8.3 12.5



#51

Acenaphthene

Concen: 8.68 ng

RT: 9.813 min Scan# 676

Delta R.T. -0.034 min

Lab File: BF090946.D

Acq: 31 Oct 2016 23:27

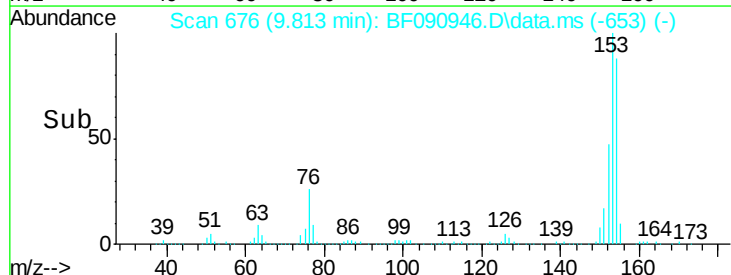
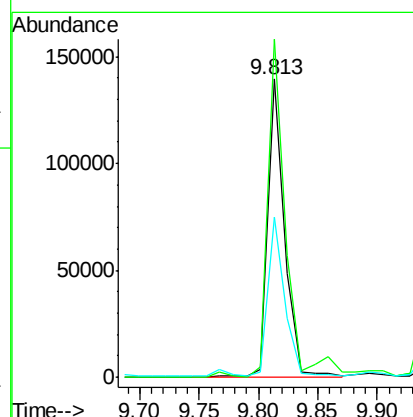
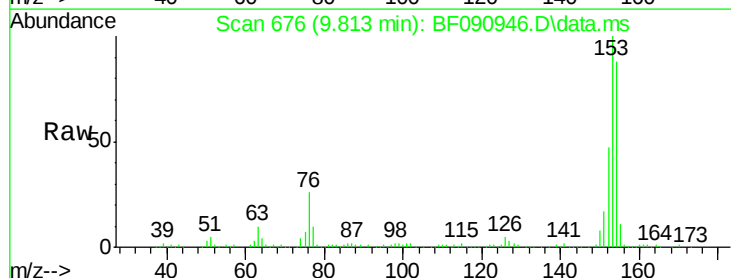
Tgt Ion:154 Resp: 137339

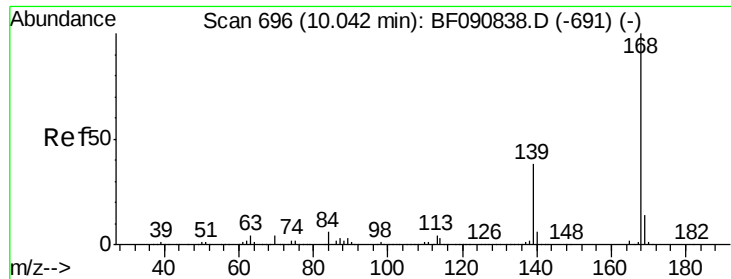
Ion Ratio Lower Upper

154 100

153 113.3 82.1 123.1

152 53.5 37.9 56.9





#54

Dibenzenofuran

Concen: 5.48 ng

RT: 9.985 min Scan# 69

Delta R.T. -0.034 min

Lab File: BF090946.D

Acq: 31 Oct 2016 23:27

Instrument :

BNA_F

ClientSampleId :

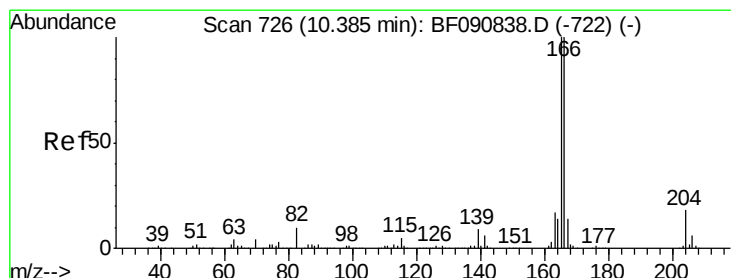
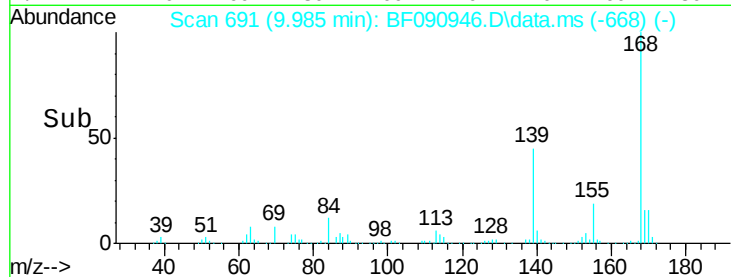
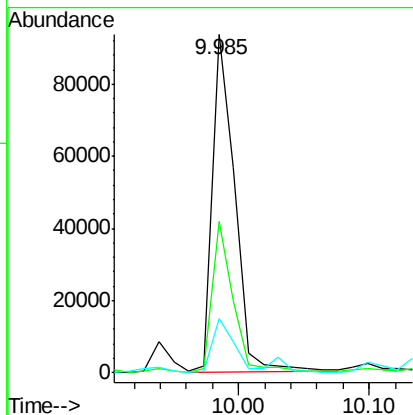
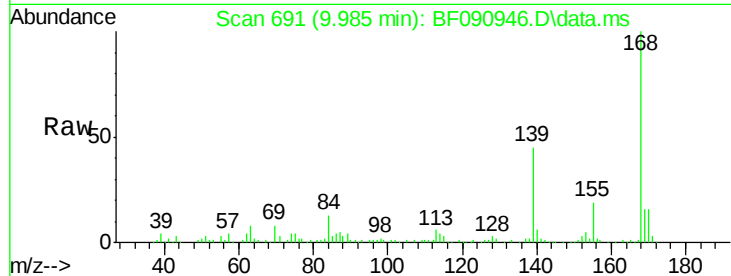
Tot Ion:168 Resp: 111920

Ion Ratio Lower Upper

168 100

139 44.8 24.2 36.2#

169 16.0 10.6 15.8#



#57

Fluorene

Concen: 7.38 ng

RT: 10.328 min Scan# 721

Delta R.T. -0.034 min

Lab File: BF090946.D

Acq: 31 Oct 2016 23:27

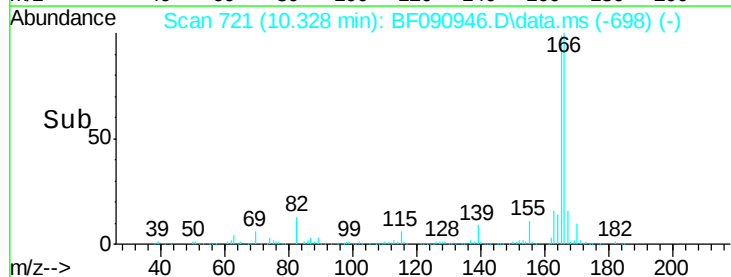
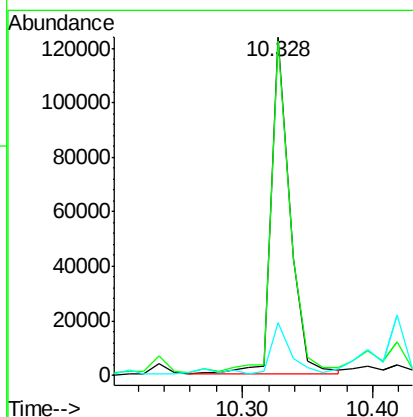
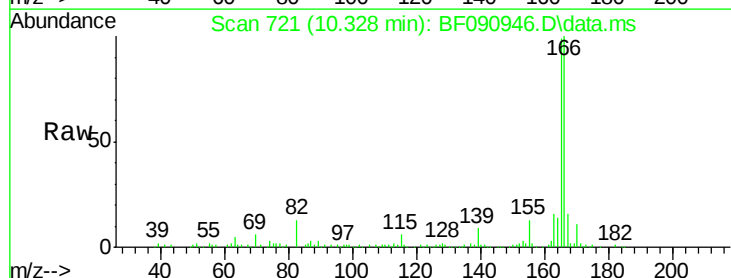
Tgt Ion:166 Resp: 123442

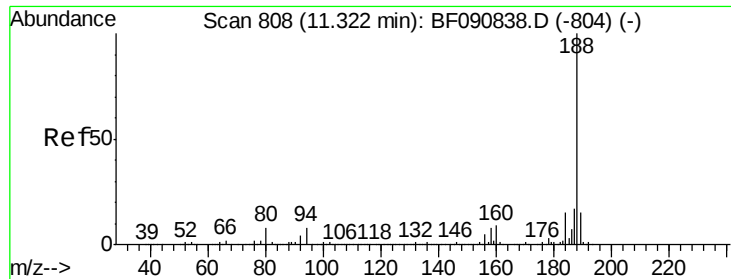
Ion Ratio Lower Upper

166 100

165 98.9 72.6 109.0

167 15.7 10.6 16.0

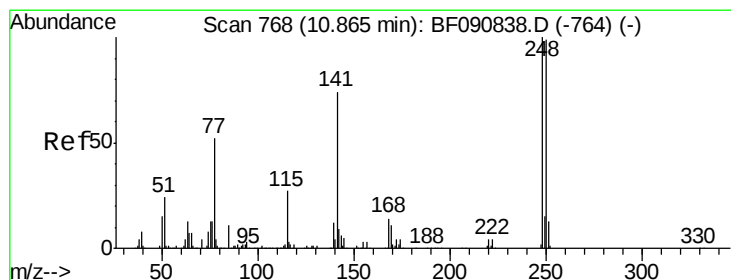
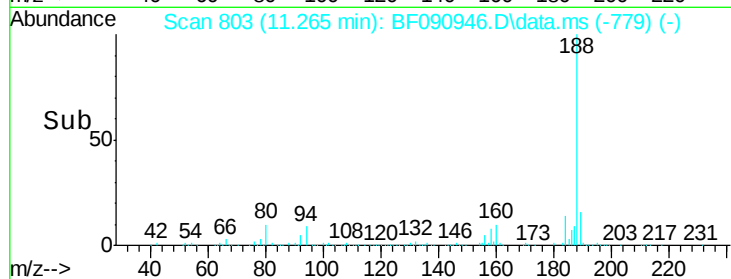
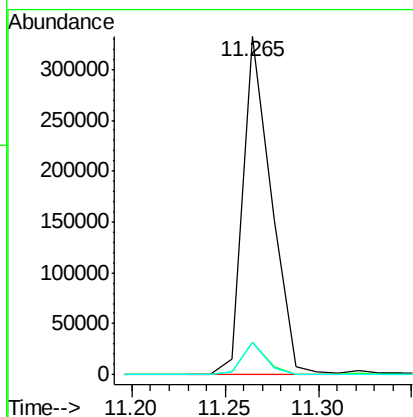
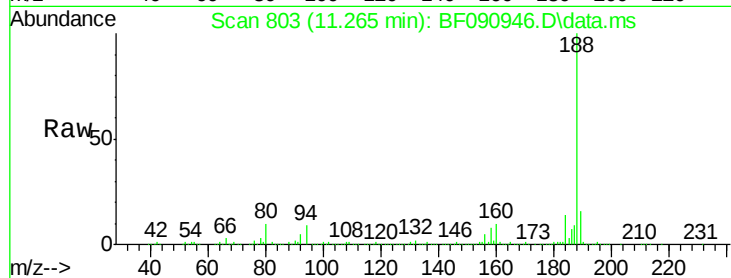




#63
 Phenanthrene-d10
 Concen: 20.00 ng
 RT: 11.265 min Scan# 80
 Delta R.T. -0.023 min
 Lab File: BF090946.D
 Acq: 31 Oct 2016 23:27

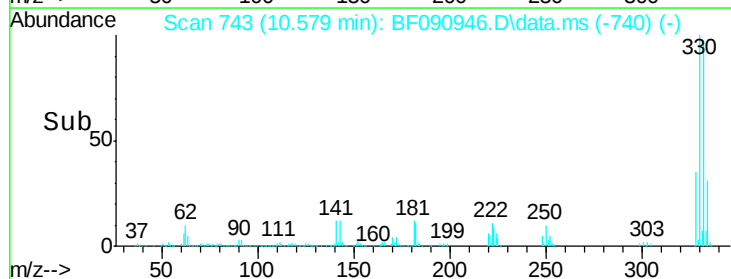
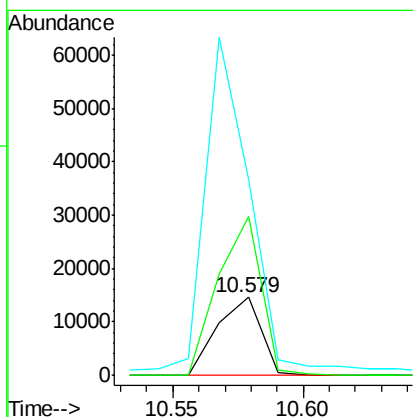
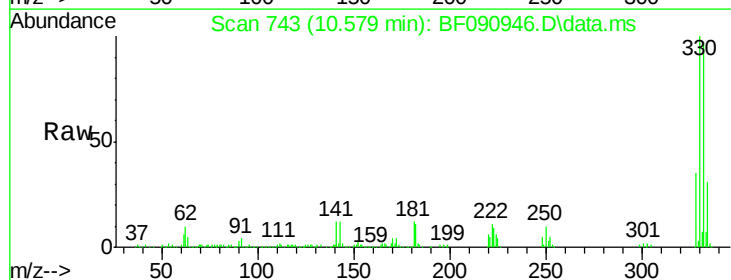
Instrument :
 BNA_F
 ClientSampleId :

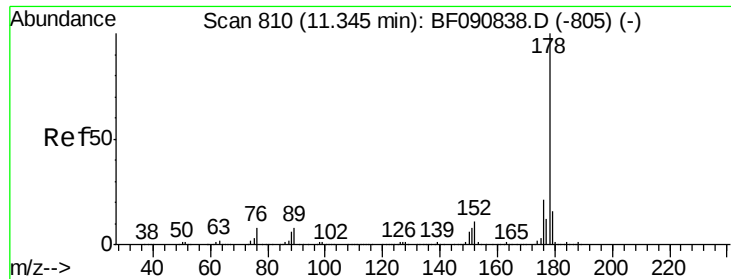
Tot Ion:188 Resp: 350700
 Ion Ratio Lower Upper
 188 100
 94 9.4 11.1 16.7#
 80 9.7 11.0 16.4#



#66
 4-Bromophenyl-phenylether
 Concen: 4.46 ng
 RT: 10.579 min Scan# 743
 Delta R.T. -0.263 min
 Lab File: BF090946.D
 Acq: 31 Oct 2016 23:27

Tgt Ion:248 Resp: 17116
 Ion Ratio Lower Upper
 248 100
 250 203.8 78.5 117.7#
 141 252.1 59.0 88.6#





#70

Phenanthrene

Concen: 71.65 ng

RT: 11.299 min Scan# 80

Delta R.T. -0.023 min

Lab File: BF090946.D

Acq: 31 Oct 2016 23:27

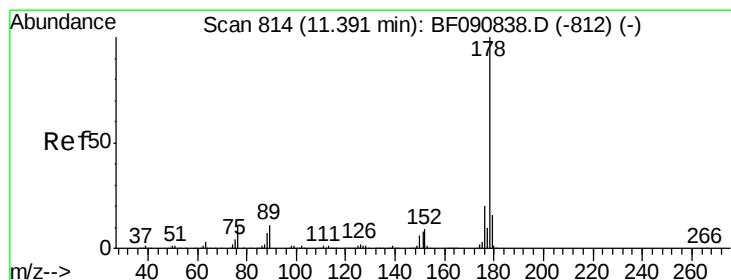
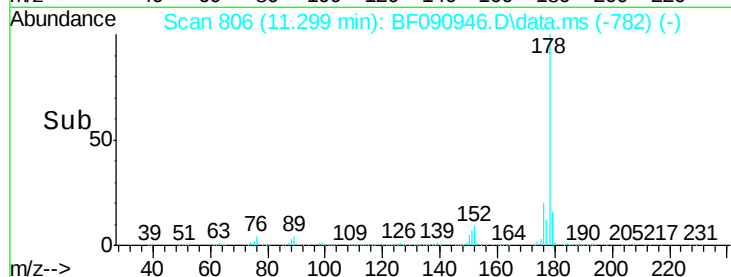
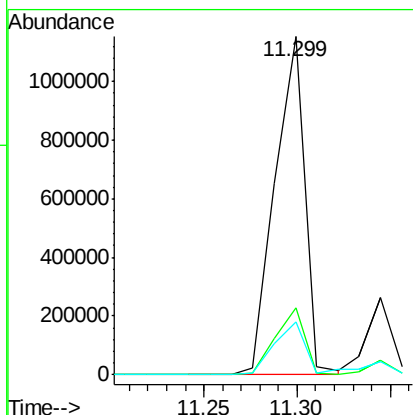
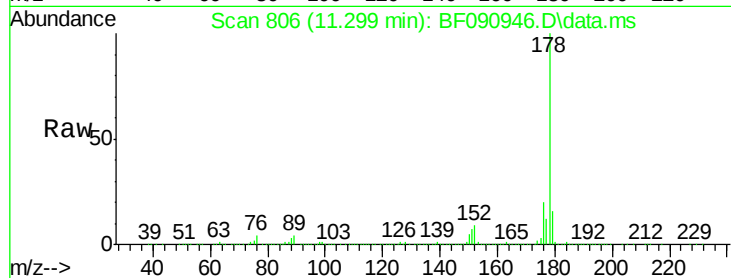
Instrument :

BNA_F

ClientSampleId :

Tot Ion:178 Resp: 1279532

Ion	Ratio	Lower	Upper
178	100		
176	19.8	13.8	20.8
179	15.7	12.2	18.2



#71

Anthracene

Concen: 13.97 ng

RT: 11.345 min Scan# 810

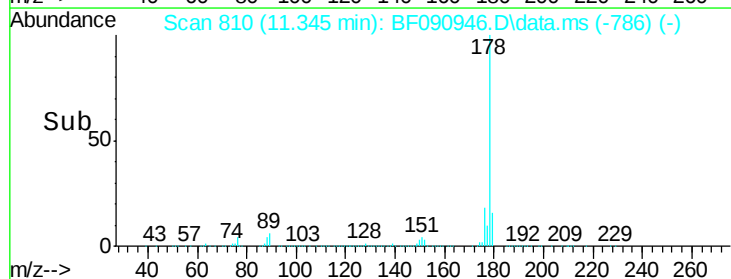
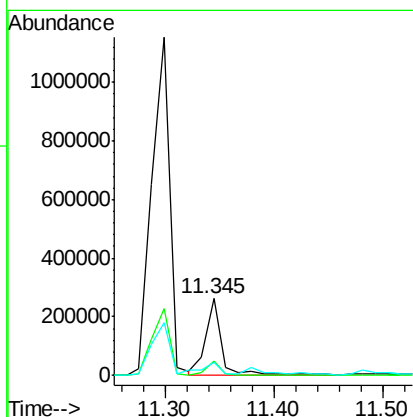
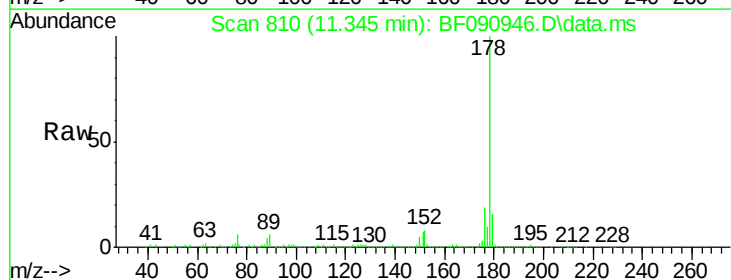
Delta R.T. -0.023 min

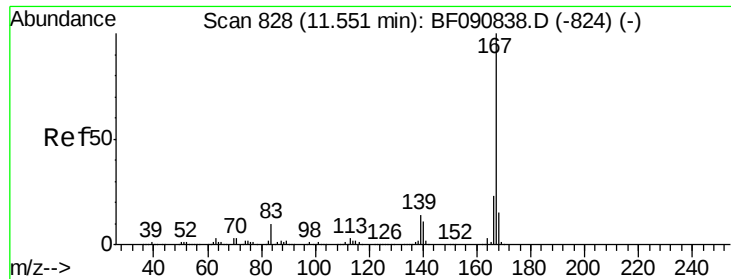
Lab File: BF090946.D

Acq: 31 Oct 2016 23:27

Tgt Ion:178 Resp: 262770

Ion	Ratio	Lower	Upper
178	100		
176	18.6	14.1	21.1
179	16.1	12.2	18.2





#72

Carbazole

Concen: 4.27 ng

RT: 11.505 min Scan# 82

Delta R.T. -0.023 min

Lab File: BF090946.D

Acq: 31 Oct 2016 23:27

Instrument :

BNA_F

ClientSampleId :

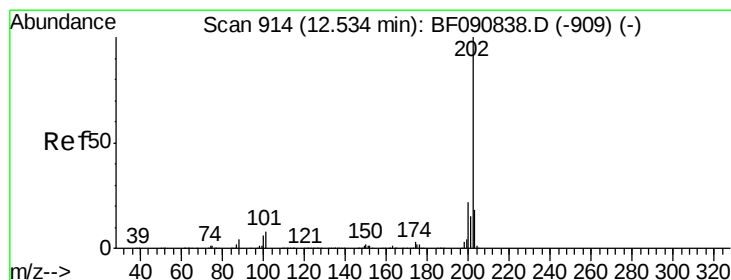
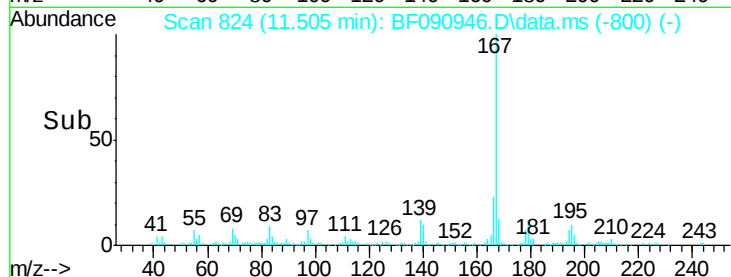
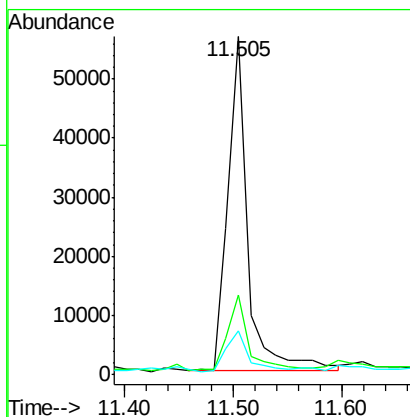
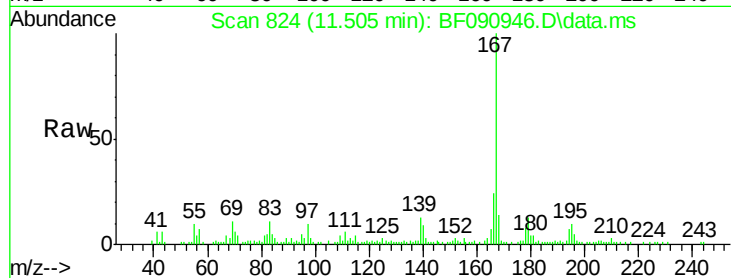
Tot Ion:167 Resp: 70973

Ion Ratio Lower Upper

167 100

166 23.5 15.7 23.5

139 12.7 9.5 14.3



#74

Fluoranthene

Concen: 72.20 ng

RT: 12.488 min Scan# 910

Delta R.T. -0.011 min

Lab File: BF090946.D

Acq: 31 Oct 2016 23:27

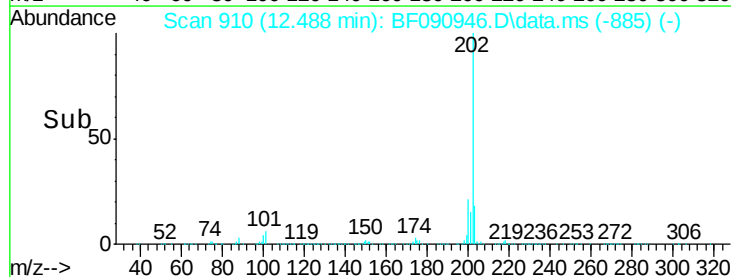
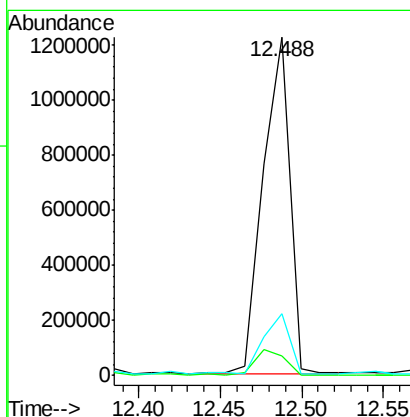
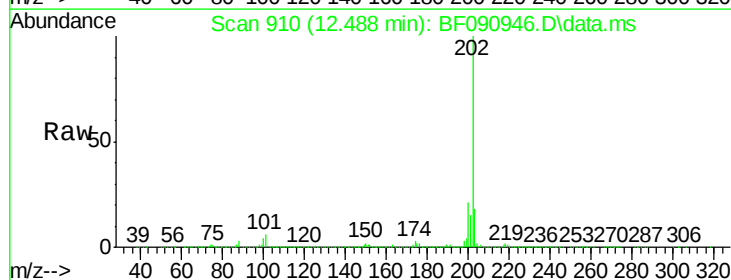
Tgt Ion:202 Resp: 1412067

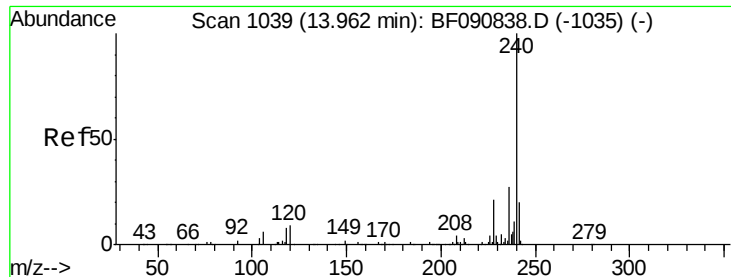
Ion Ratio Lower Upper

202 100

101 5.9 0.0 38.3

203 18.4 0.0 37.3





#75

Chrysene-d12

Concen: 20.00 ng

RT: 13.905 min Scan# 10

Delta R.T. -0.023 min

Lab File: BF090946.D

Acq: 31 Oct 2016 23:27

Instrument :

BNA_F

ClientSampleId :

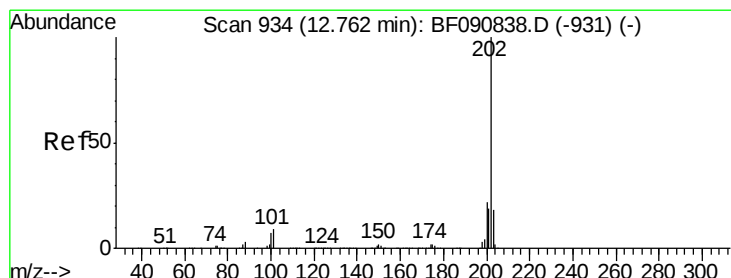
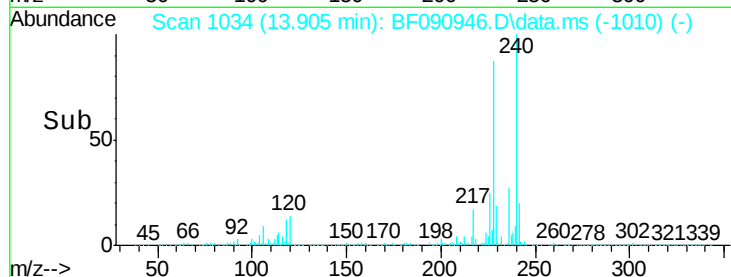
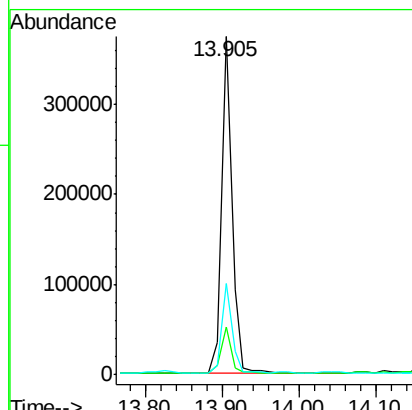
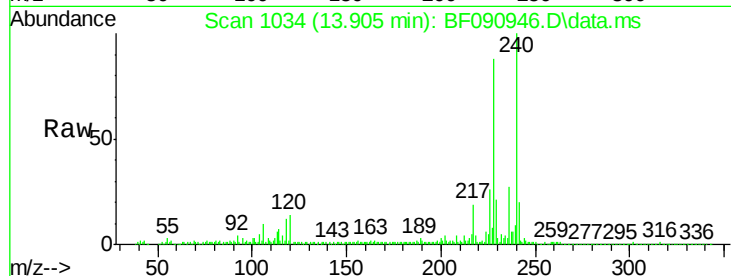
Tot Ion:240 Resp: 359996

Ion Ratio Lower Upper

240 100

120 13.9 16.2 24.2#

236 26.9 18.4 27.6



#77

Pyrene

Concen: 60.04 ng

RT: 12.716 min Scan# 930

Delta R.T. -0.011 min

Lab File: BF090946.D

Acq: 31 Oct 2016 23:27

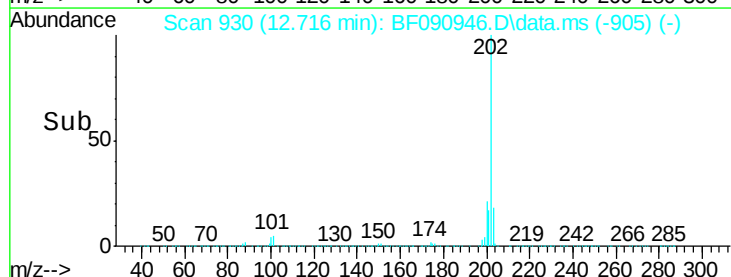
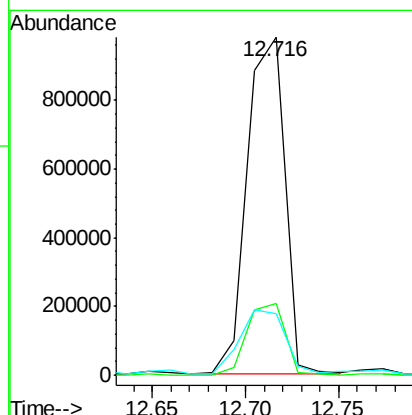
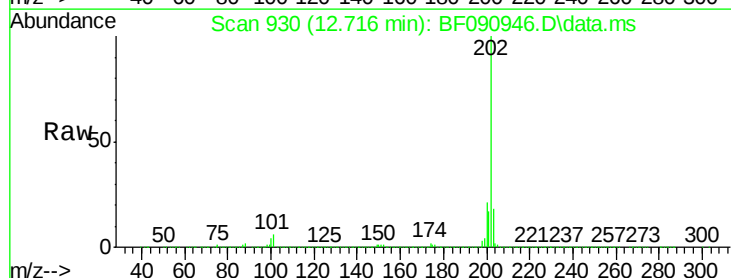
Tgt Ion:202 Resp: 1367906

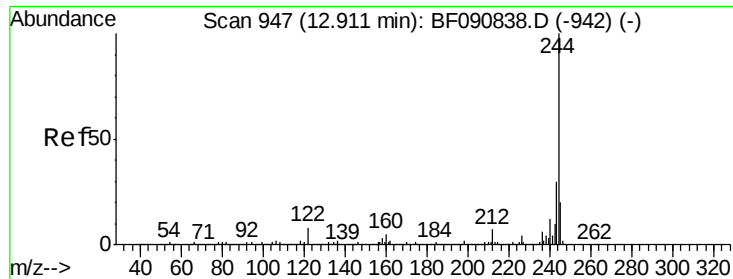
Ion Ratio Lower Upper

202 100

200 21.3 15.0 22.4

203 18.1 14.1 21.1

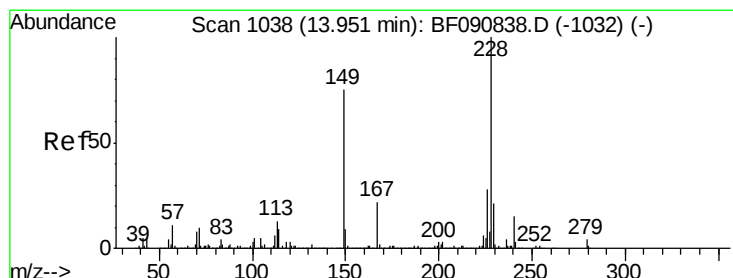
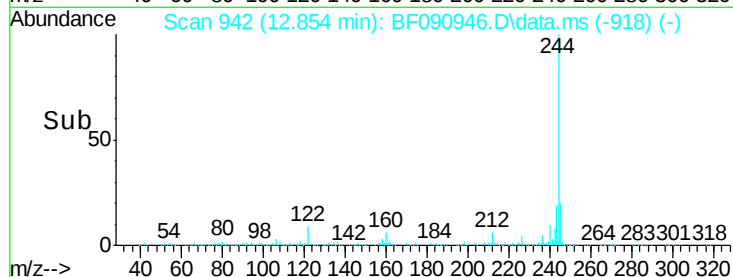
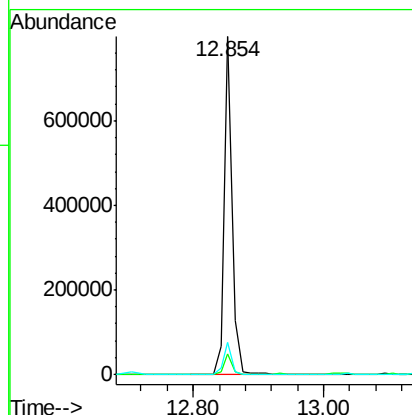
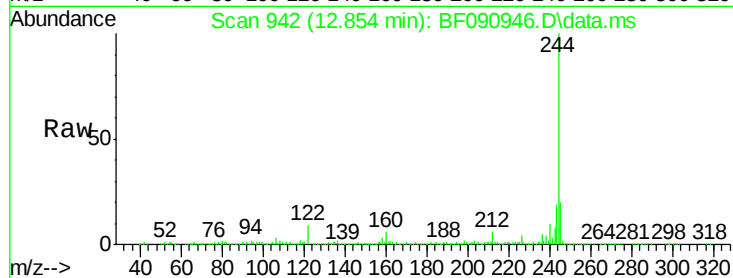




#78
 Terphenyl-d14
 Concen: 48.85 ng
 RT: 12.854 min Scan# 94
 Delta R.T. -0.023 min
 Lab File: BF090946.D
 Acq: 31 Oct 2016 23:27

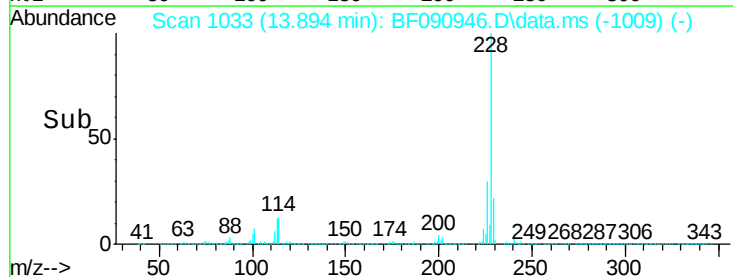
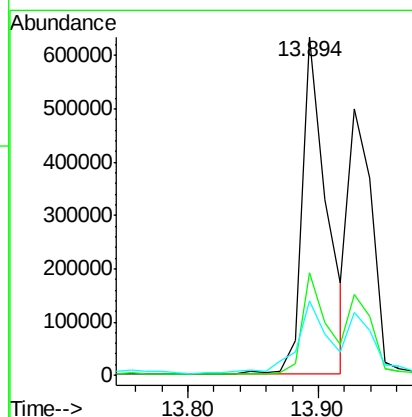
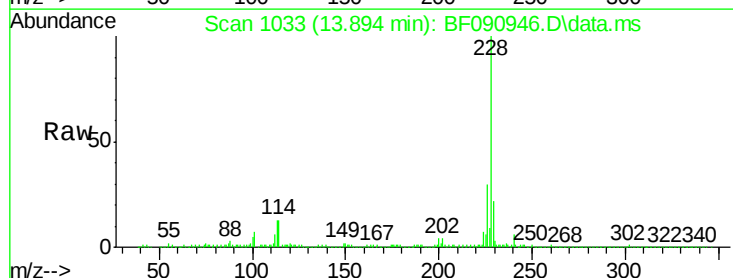
Instrument :
 BNA_F
 ClientSampleId :

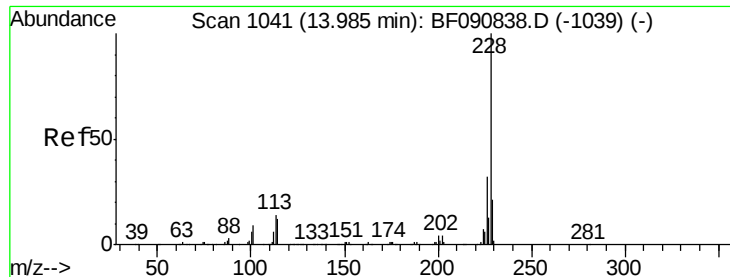
Tot Ion:244 Resp: 698038
 Ion Ratio Lower Upper
 244 100
 212 6.3 4.3 6.5
 122 9.3 17.4 26.2#



#80
 Benzo(a)anthracene
 Concen: 43.44 ng
 RT: 13.894 min Scan# 1033
 Delta R.T. -0.023 min
 Lab File: BF090946.D
 Acq: 31 Oct 2016 23:27

Tgt Ion:228 Resp: 830031
 Ion Ratio Lower Upper
 228 100
 226 30.4 20.0 30.0#
 229 22.2 15.4 23.2





#82

Chrysene

Concen: 42.95 ng

RT: 13.894 min Scan# 1041

Delta R.T. -0.068 min

Lab File: BF090946.D

Acq: 31 Oct 2016 23:27

Instrument :

BNA_F

ClientSampleId :

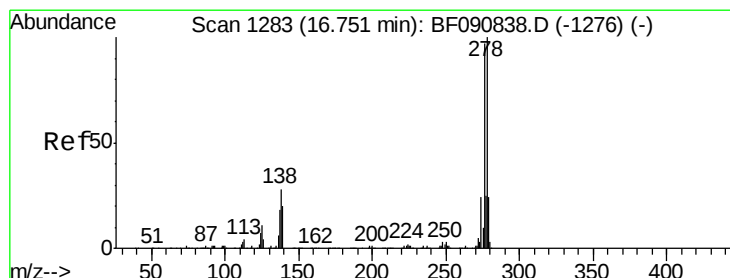
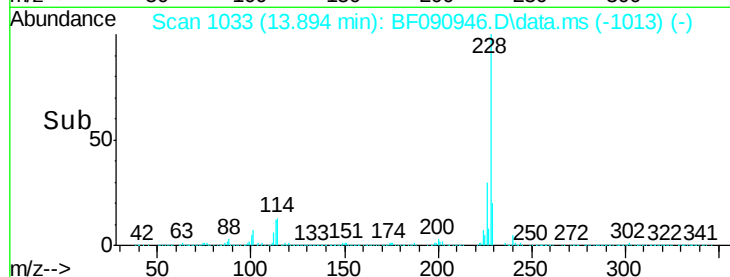
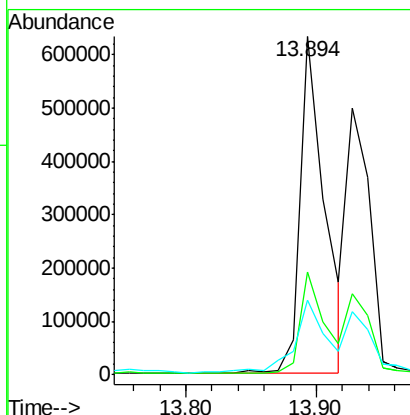
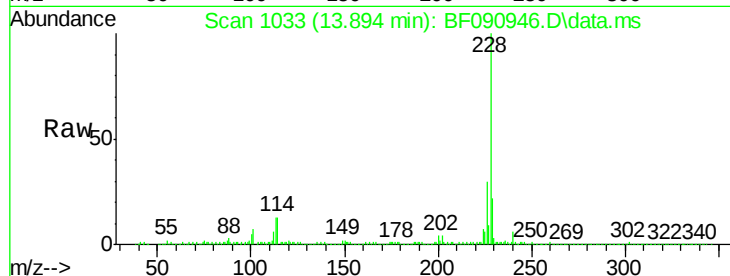
Tot Ion:228 Resp: 830031

Ion Ratio Lower Upper

228 100

226 30.4 21.0 31.4

229 22.2 15.6 23.4



#85

Indeno(1,2,3-cd)pyrene

Concen: 16.24 ng

RT: 16.648 min Scan# 1274

Delta R.T. -0.057 min

Lab File: BF090946.D

Acq: 31 Oct 2016 23:27

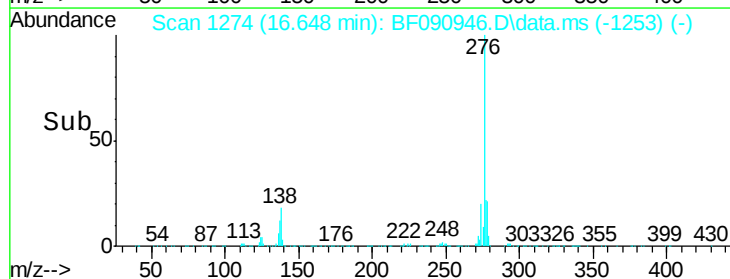
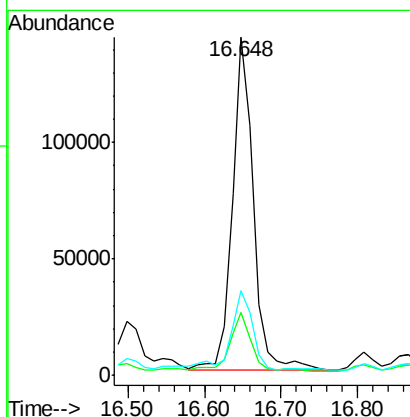
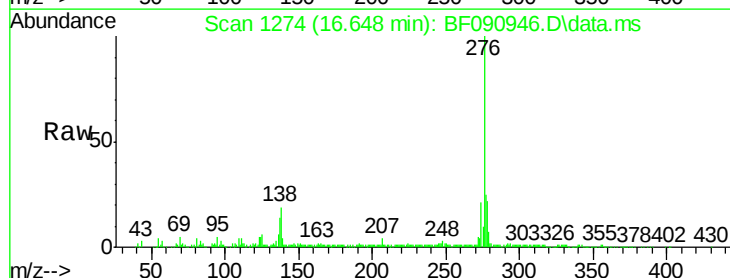
Tgt Ion:276 Resp: 278091

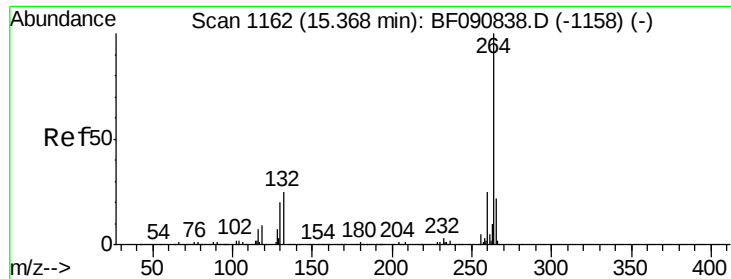
Ion Ratio Lower Upper

276 100

138 17.7 25.7 38.5#

277 27.9 15.6 23.4#

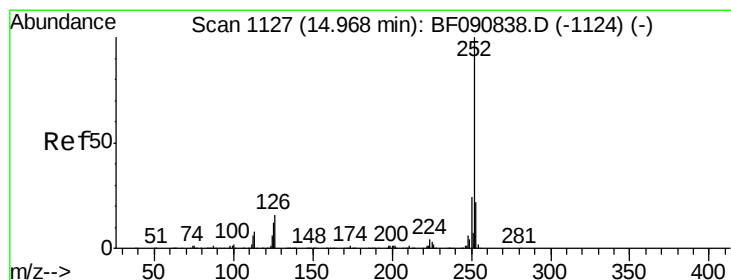
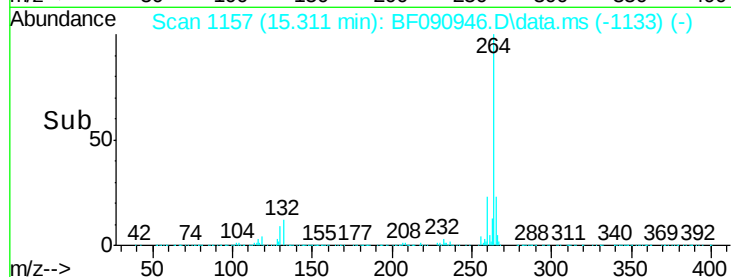
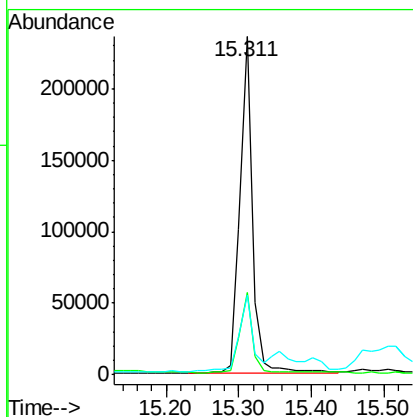
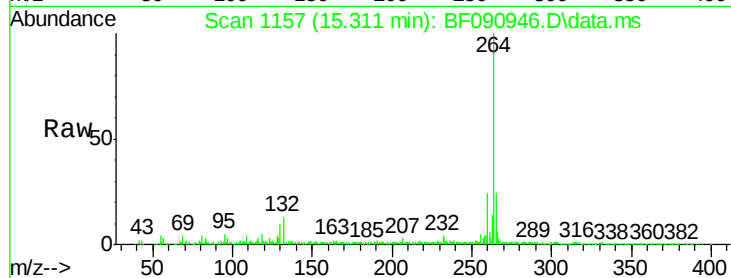




#86
Pervlene-d12
Concen: 20.00 ng
RT: 15.311 min Scan# 1162
Delta R.T. -0.023 min
Lab File: BF090946.D
Acq: 31 Oct 2016 23:27

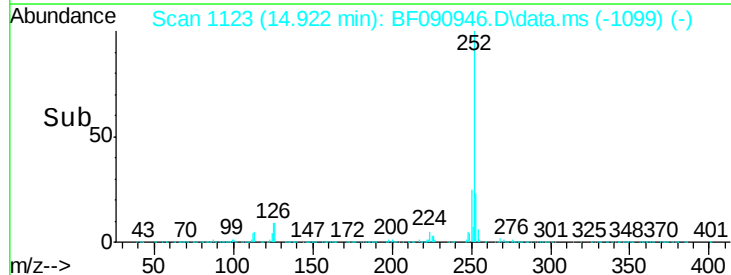
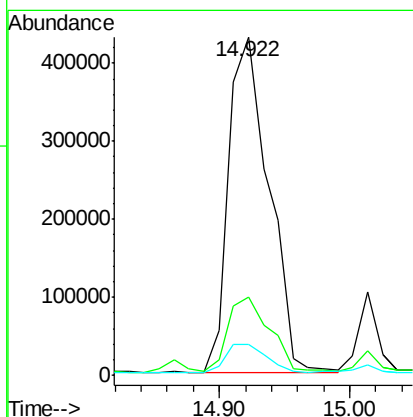
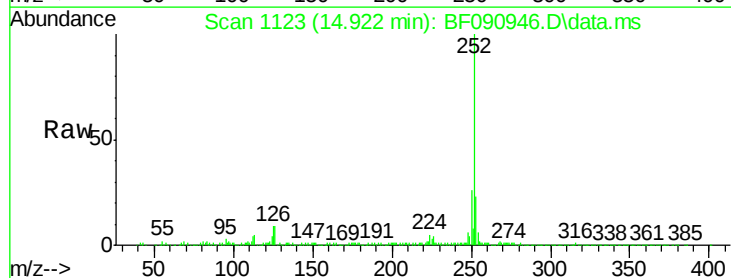
Instrument :
BNA_F
ClientSampleId :

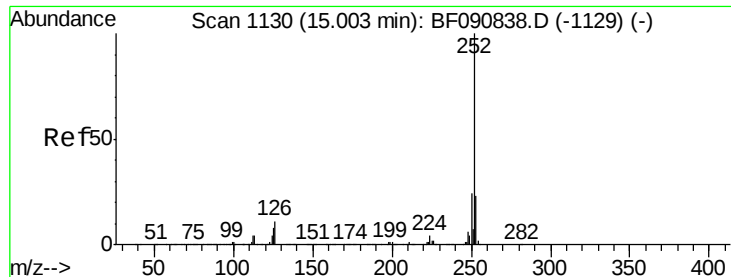
Tot Ion	Ratio	Lower	Upper
264	100		
260	24.1	16.7	25.1
265	23.7	17.2	25.8



#87
Benzo(b)fluoranthene
Concen: 47.85 ng
RT: 14.922 min Scan# 1123
Delta R.T. -0.023 min
Lab File: BF090946.D
Acq: 31 Oct 2016 23:27

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.3	17.5	26.3
125	9.3	17.1	25.7#





#88

Benzo(k)fluoranthene

Concen: 60.55 ng

RT: 14.922 min Scan# 111

Delta R.T. -0.046 min

Lab File: BF090946.D

Acq: 31 Oct 2016 23:27

Instrument :

BNA_F

ClientSampleId :

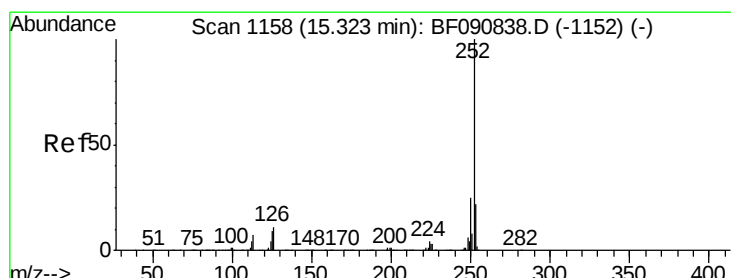
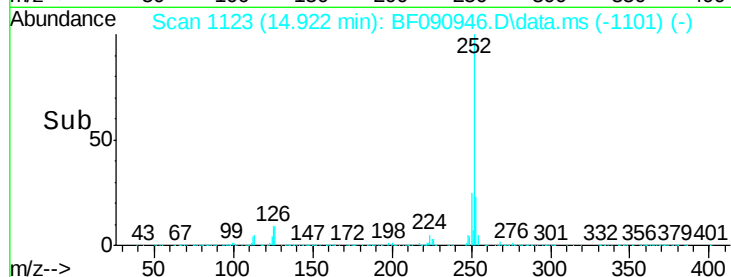
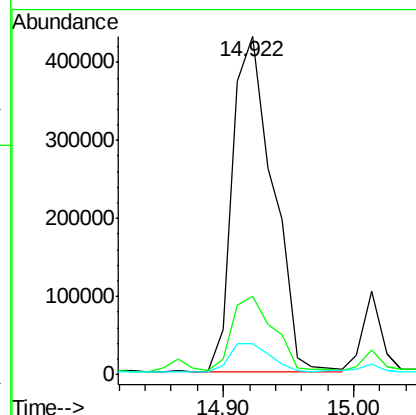
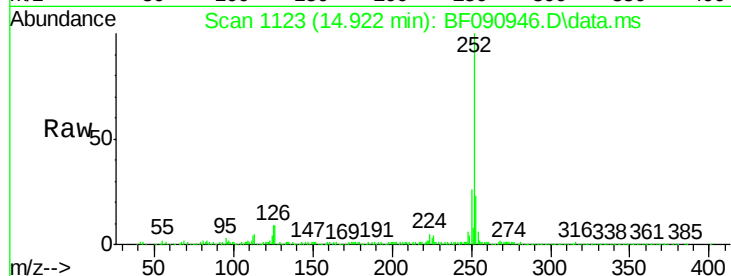
Tot Ion:252 Resp: 921842

Ion Ratio Lower Upper

252 100

253 23.3 17.0 25.4

125 9.3 16.0 24.0#



#89

Benzo(a)pyrene

Concen: 31.87 ng

RT: 15.254 min Scan# 1152

Delta R.T. -0.034 min

Lab File: BF090946.D

Acq: 31 Oct 2016 23:27

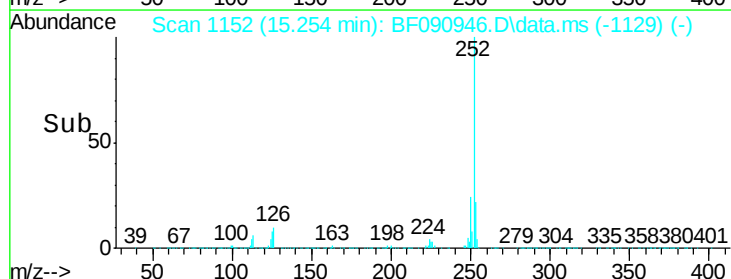
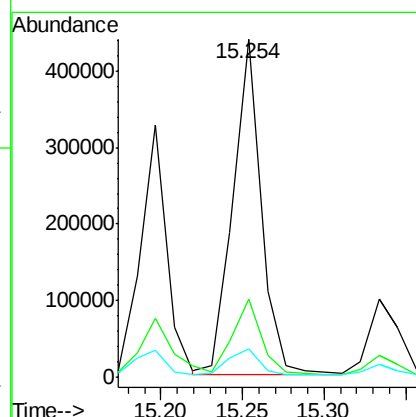
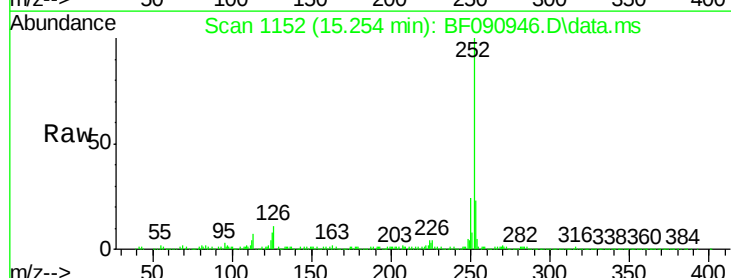
Tgt Ion:252 Resp: 527486

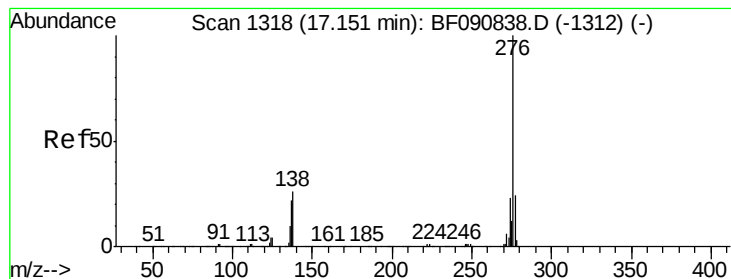
Ion Ratio Lower Upper

252 100

253 23.3 17.2 25.8

125 8.4 18.0 27.0#





#91

Benzo(a,h,i)perylene

Concen: 19.94 ng

RT: 17.048 min Scan# 131

Delta R.T. -0.057 min

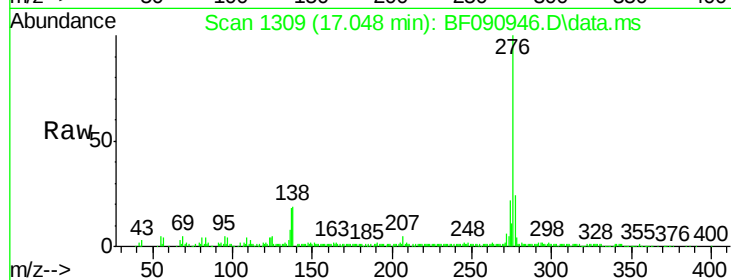
Lab File: BF090946.D

Acq: 31 Oct 2016 23:27

Instrument :

BNA_F

ClientSampleId :



Tot Ion:	276	Resp:	263117
Ion Ratio	Lower	Upper	
276	100		
277	24.5	17.8	26.6
138	19.4	34.6	51.8#

