

Data Path : Z:\HPCHEM1\BNA F\Data\BF103116\
 Data File : BF090944.D
 Acq On : 31 Oct 2016 22:33
 Operator : UM/SJ
 Sample : H5463-03
 Misc :
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Nov 01 10:39:07 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	146061	20.00	ng	-0.01
21) Naphthalene-d8	8.030	136	638454	20.00	ng	-0.02
38) Acenaphthene-d10	9.779	164	291236	20.00	ng	-0.03
63) Phenanthrene-d10	11.265	188	429310	20.00	ng	-0.02
75) Chrysene-d12	13.905	240	379667	20.00	ng	-0.02
86) Perylene-d12	15.311	264	339410	20.00	ng	-0.02

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.344	112	1033245	123.68	ng	-0.01
7) Phenol-d6	6.396	99	1399816	124.20	ng	-0.02
23) Nitrobenzene-d5	7.310	82	919132	94.24	ng	-0.02
41) 2,4,6-Tribromophenol	10.579	330	410540	137.17	ng	-0.02
44) 2-Fluorobiphenyl	9.116	172	1731854	104.42	ng	-0.02
78) Terphenyl-d14	12.854	244	1193086	79.17	ng	-0.02

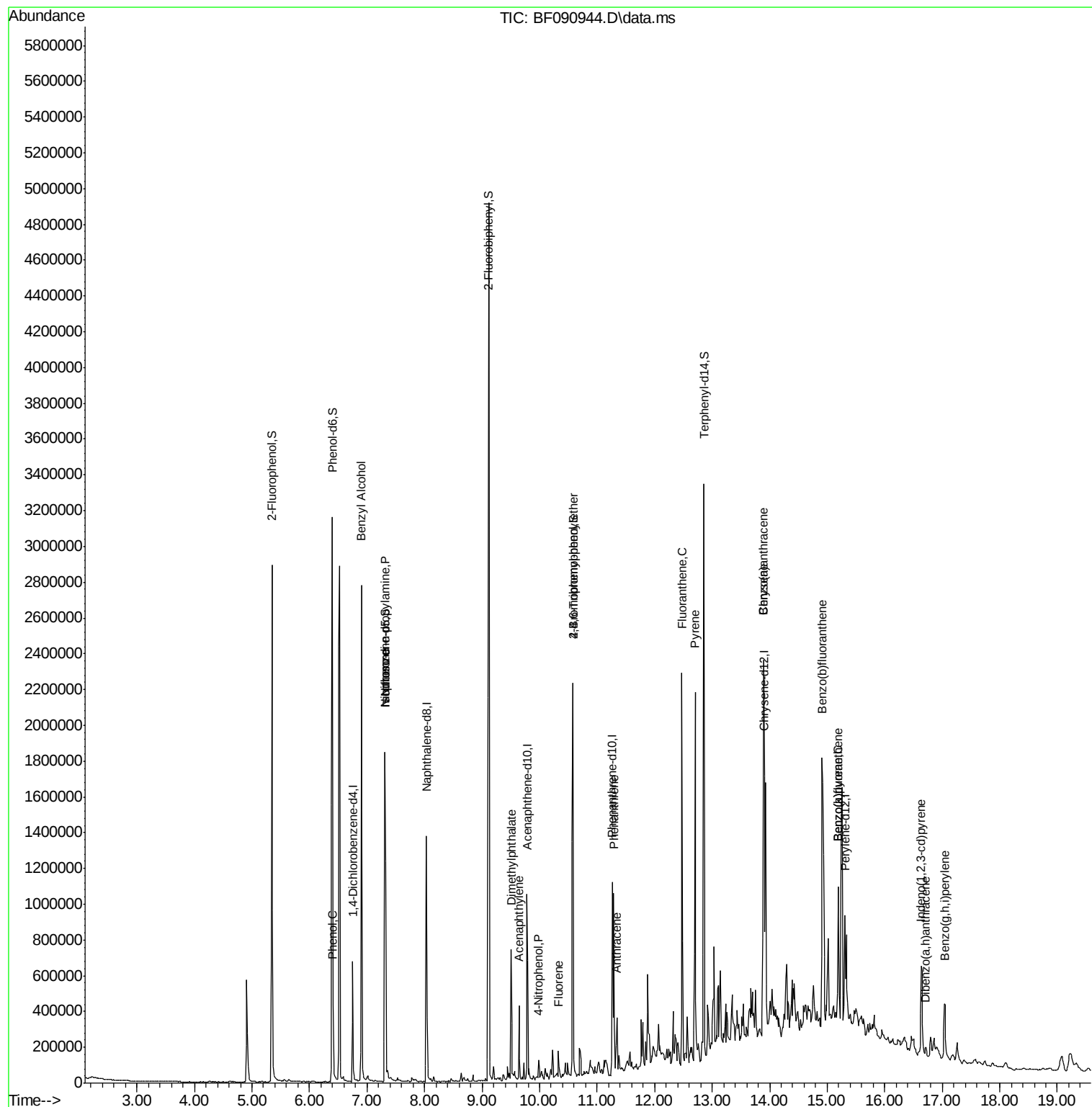
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
10) Phenol	6.407	94	66529	5.36	ng	78
15) Benzyl Alcohol	6.899	79	15900	2.15	ng	# 31
19) n-Nitroso-di-n-propyla...	7.310	70	122388	18.78	ng	# 53
25) Isophorone	7.310	82	837542	42.32	ng	# 58
48) Acenaphthylene	9.642	152	177670	7.35	ng	97
49) Dimethylphthalate	9.505	163	310379	15.95	ng	# 97
55) 4-Nitrophenol	9.985	139	14127	5.06	ng	# 32
57) Fluorene	10.328	166	54324	3.09	ng	91
66) 4-Bromophenyl-phenylether	10.579	248	24717	5.26	ng	# 1
70) Phenanthrene	11.288	178	408693	18.69	ng	97
71) Anthracene	11.345	178	179828	7.81	ng	99
74) Fluoranthene	12.476	202	992021	41.44	ng	91
77) Pvrene	12.705	202	878178	36.55	ng	96
80) Benzo(a)anthracene	13.894	228	779663	38.69	ng	# 75
82) Chrysene	13.894	228	779663	38.25	ng	# 76
85) Indeno(1,2,3-cd)pyrene	16.637	276	347993	19.27	ng	# 81
87) Benzo(b)fluoranthene	14.911	252	1256571	55.06	ng	# 89
88) Benzo(k)fluoranthene	15.185	252	356247	19.75	ng	94
89) Benzo(a)pvrene	15.185	252	373429	19.04	ng	98
90) Dibenzo(a,h)anthracene	16.717	278	37897	2.28	ng	# 74
91) Benzo(g,h,i)perylene	17.048	276	281342	17.99	ng	# 70

(#) = 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: BF090944.D

Acq: 31 Oct 2016 22:33

Instrument :

BNA_F

ClientSampleId :

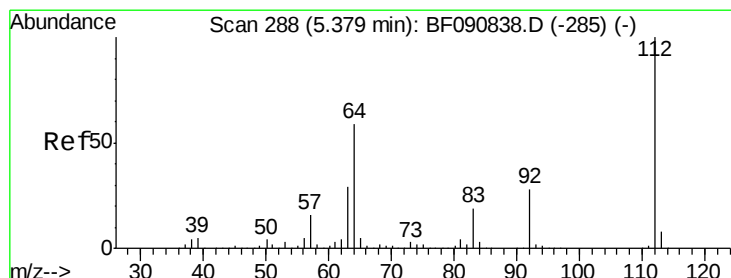
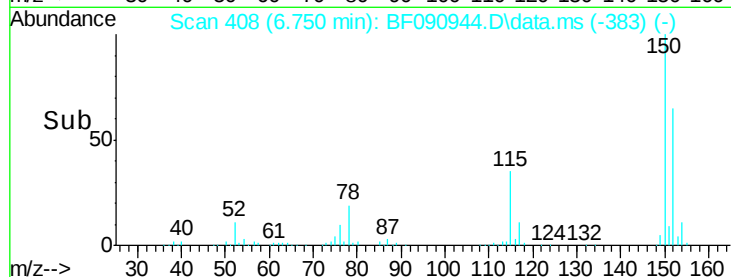
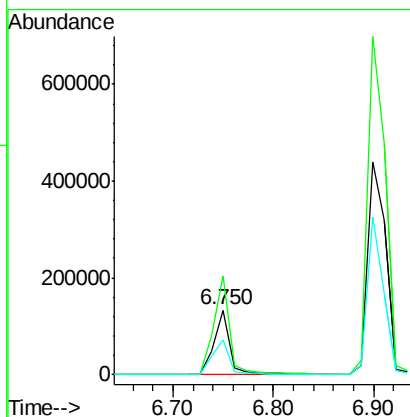
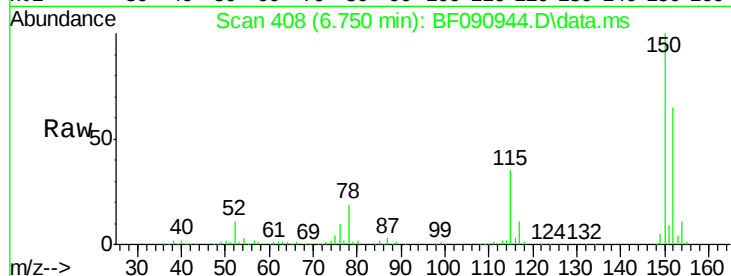
Tot Ion:152 Resp: 146061

Ion Ratio Lower Upper

152 100

150 153.3 124.7 187.1

115 53.0 39.0 58.4



#5

2-Fluorophenol

Concen: 123.68 ng

RT: 5.344 min Scan# 285

Delta R.T. -0.011 min

Lab File: BF090944.D

Acq: 31 Oct 2016 22:33

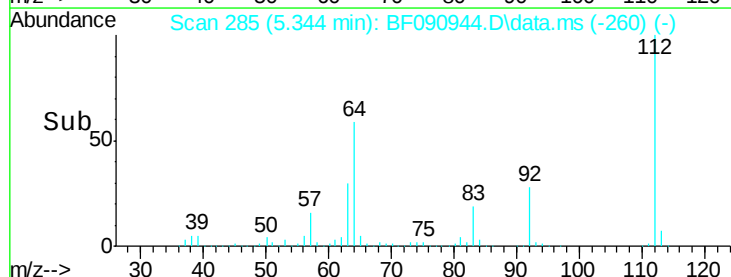
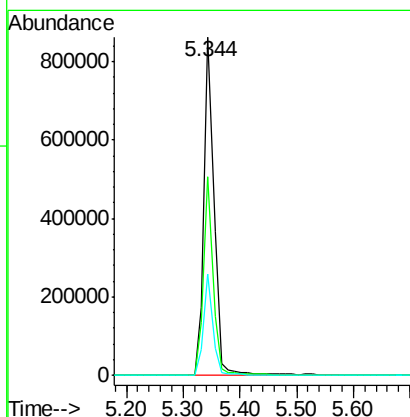
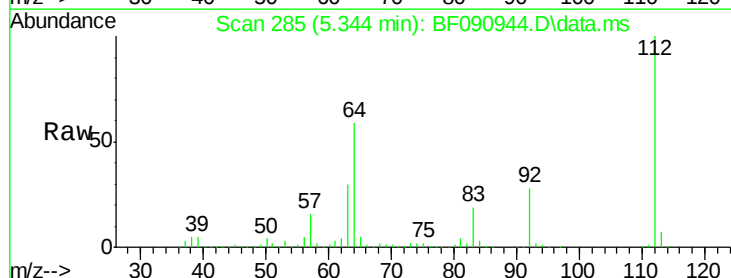
Tgt Ion:112 Resp: 1033245

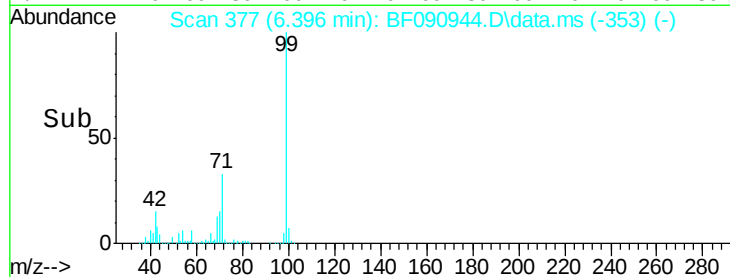
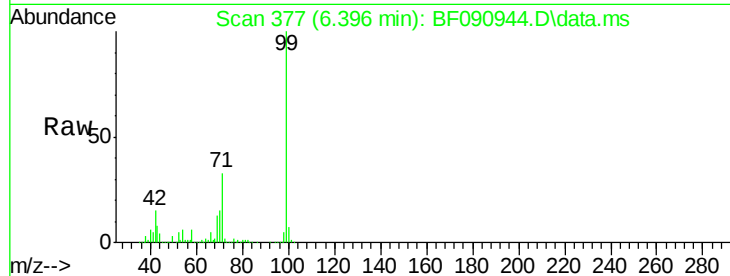
Ion Ratio Lower Upper

112 100

64 58.7 39.7 59.5

63 29.8 17.4 26.0#





#7

Phenol-d6

Concen: 124.20 ng

RT: 6.396 min Scan# 37

Delta R.T. -0.023 min

Lab File: BF090944.D

Acq: 31 Oct 2016 22:33

Instrument :

BNA_F

ClientSampleId :

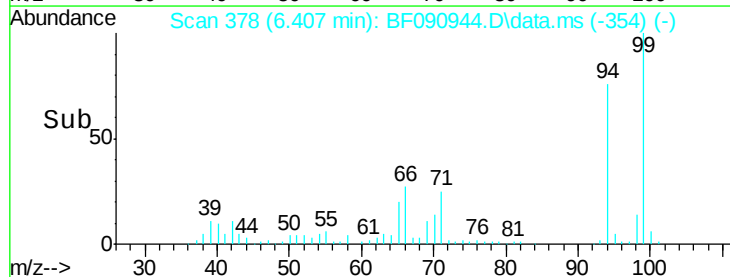
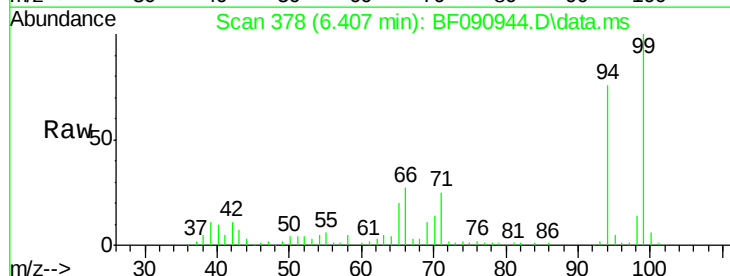
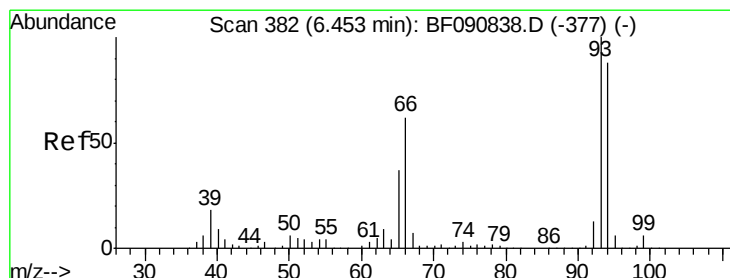
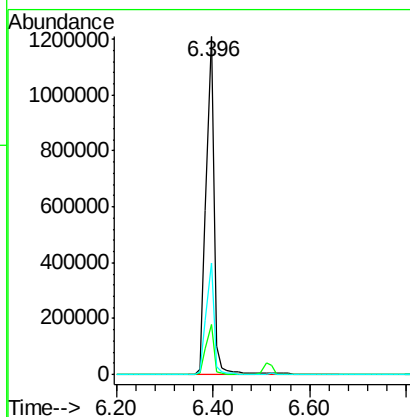
Tot Ion: 99 Resp: 1399816

Ion Ratio Lower Upper

99 100

42 14.9 13.7 20.5

71 33.0 14.2 21.2#



#10

Phenol

Concen: 5.36 ng

RT: 6.407 min Scan# 378

Delta R.T. -0.023 min

Lab File: BF090944.D

Acq: 31 Oct 2016 22:33

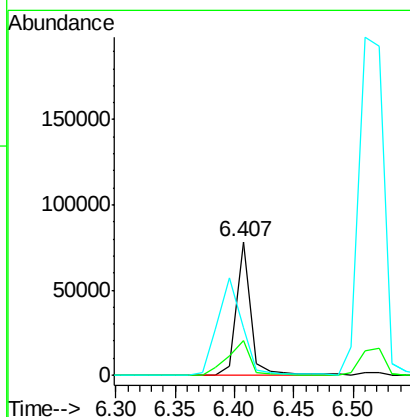
Tgt Ion: 94 Resp: 66529

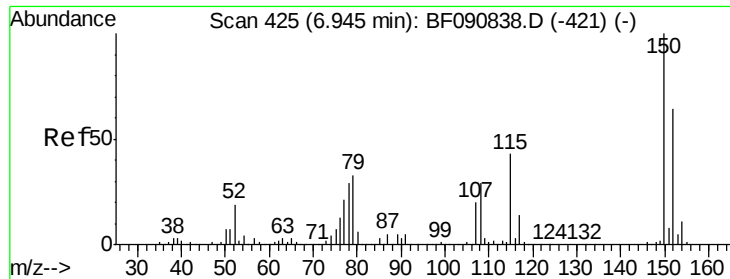
Ion Ratio Lower Upper

94 100

65 25.7 0.7 40.7

66 35.9 0.8 40.8

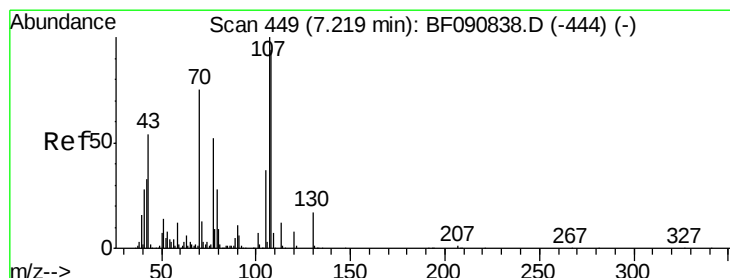
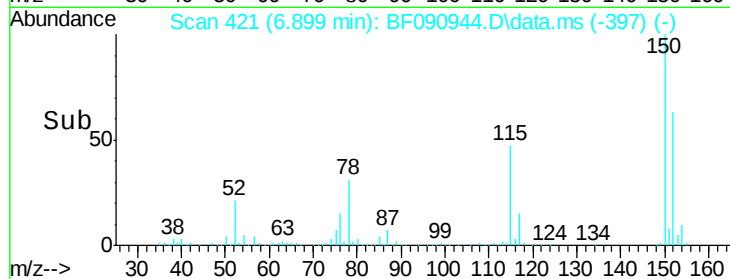
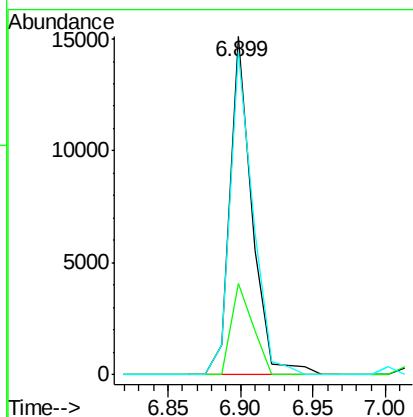
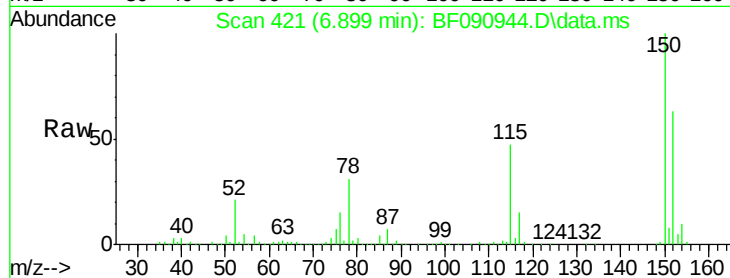




#15
Benzyl Alcohol
Concen: 2.15 ng
RT: 6.899 min Scan# 421
Delta R.T. -0.023 min
Lab File: BF090944.D
Acq: 31 Oct 2016 22:33

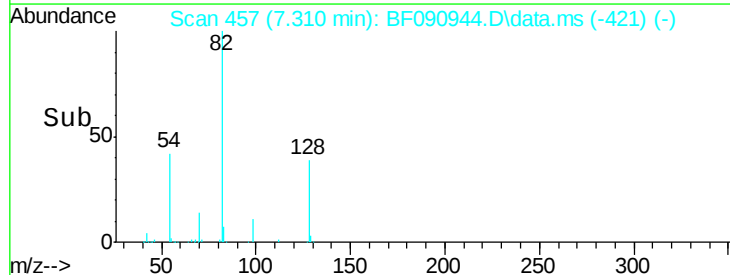
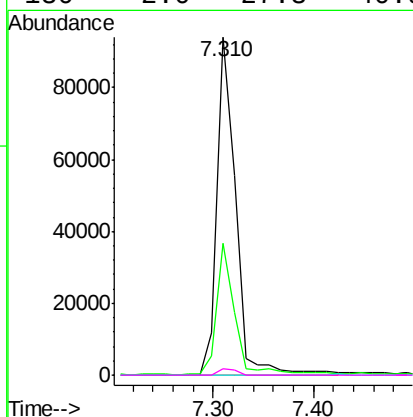
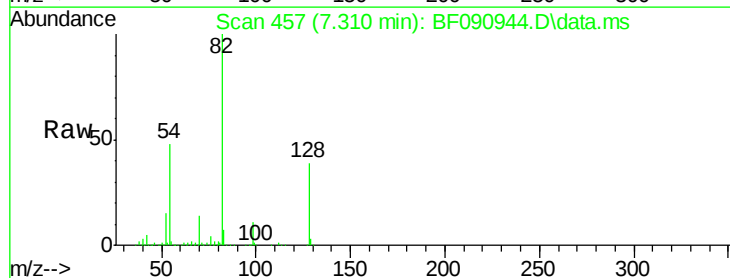
Instrument :
BNA_F
ClientSampleId :

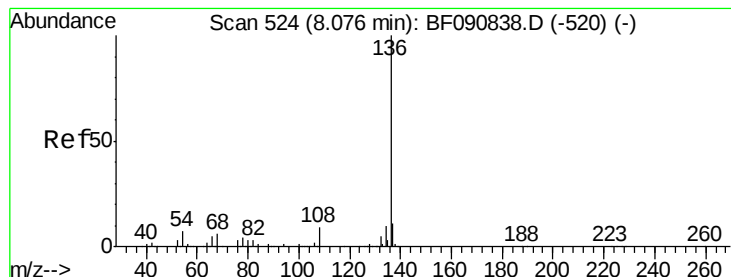
Tot Ion: 79 Resp: 15900
Ion Ratio Lower Upper
79 100
108 26.8 88.6 132.8#
77 95.3 47.0 70.4#



#19
n-Nitroso-di-n-propylamine
Concen: 18.78 ng
RT: 7.310 min Scan# 457
Delta R.T. 0.114 min
Lab File: BF090944.D
Acq: 31 Oct 2016 22:33

Tgt Ion: 70 Resp: 122388
Ion Ratio Lower Upper
70 100
42 39.0 63.8 95.6#
101 0.0 9.2 13.8#
130 2.0 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: BF090944.D

Acq: 31 Oct 2016 22:33

Instrument :

BNA_F

ClientSampleId :

Tot Ion:136 Resp: 638454

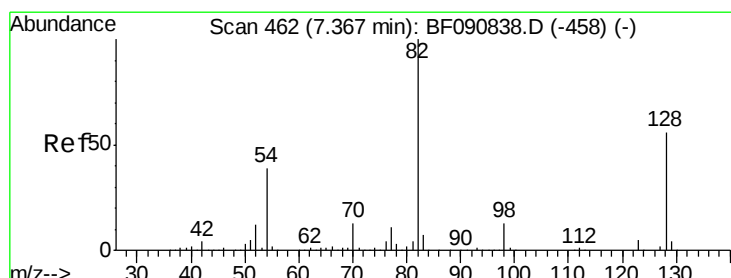
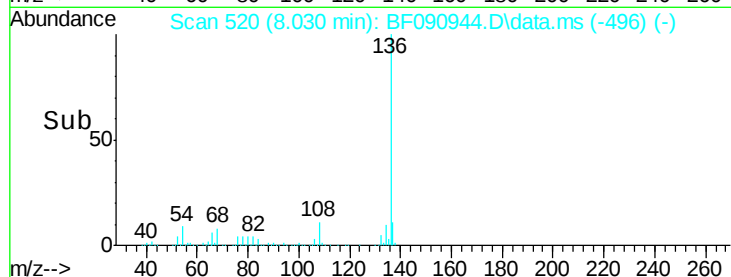
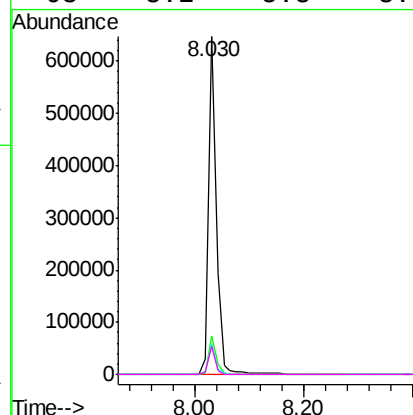
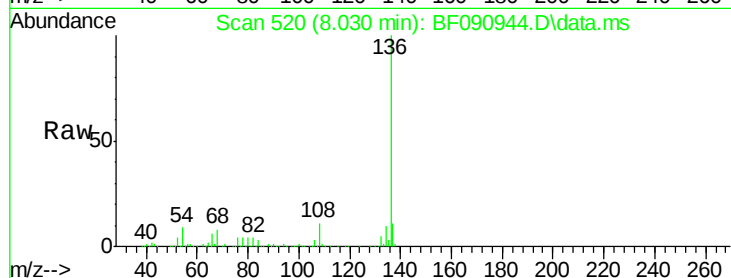
Ion Ratio Lower Upper

136 100

137 11.4 9.0 13.6

54 9.2 8.2 12.2

68 8.2 5.8 8.6



#23

Nitrobenzene-d5

Concen: 94.24 ng

RT: 7.310 min Scan# 457

Delta R.T. -0.023 min

Lab File: BF090944.D

Acq: 31 Oct 2016 22:33

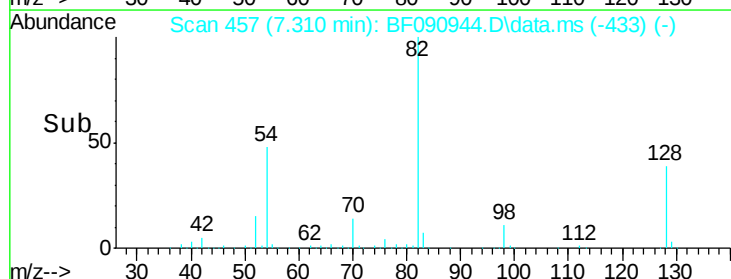
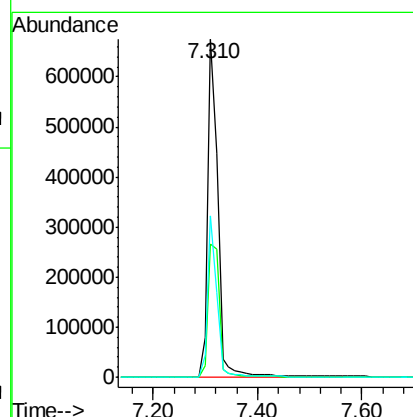
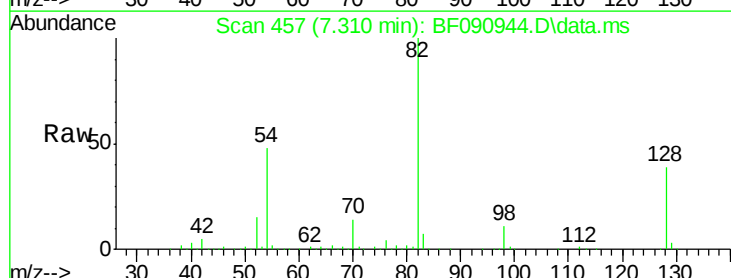
Tgt Ion: 82 Resp: 919132

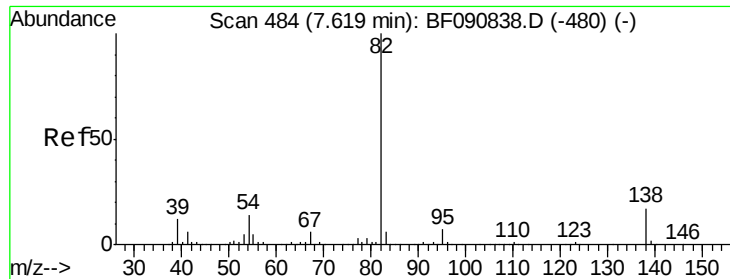
Ion Ratio Lower Upper

82 100

128 39.4 51.0 76.6#

54 47.8 47.5 71.3





#25

Isophorone

Concen: 42.32 ng

RT: 7.310 min Scan# 45

Delta R.T. -0.286 min

Lab File: BF090944.D

Acq: 31 Oct 2016 22:33

Instrument :

BNA_F

ClientSampleId :

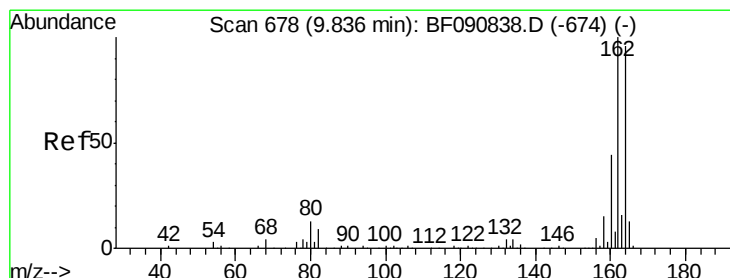
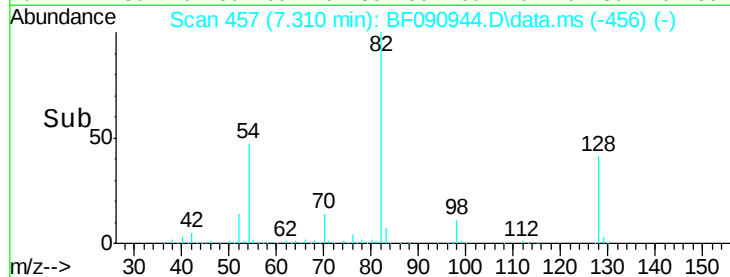
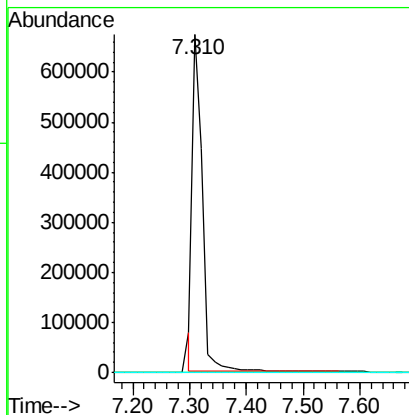
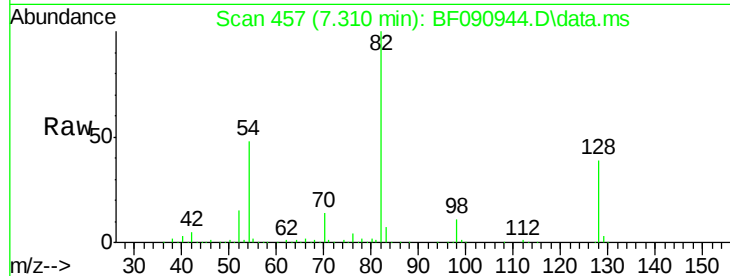
Tot Ion: 82 Resp: 837542

Ion Ratio Lower Upper

82 100

95 0.0 4.0 6.0#

138 0.0 18.3 27.5#



#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.779 min Scan# 673

Delta R.T. -0.034 min

Lab File: BF090944.D

Acq: 31 Oct 2016 22:33

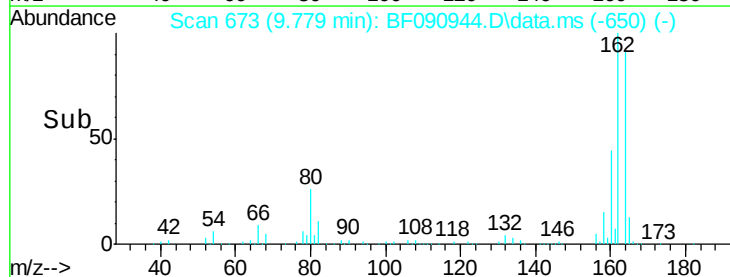
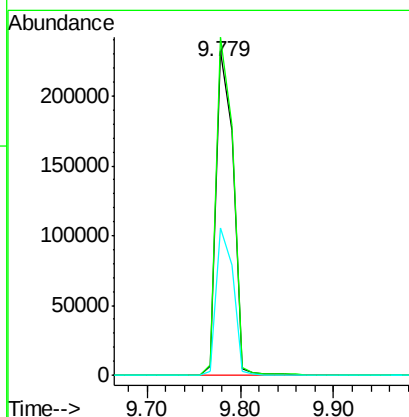
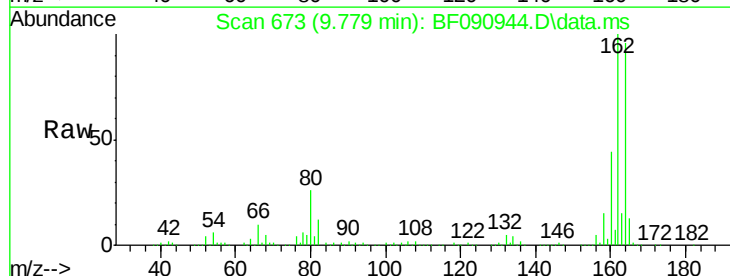
Tgt Ion: 164 Resp: 291236

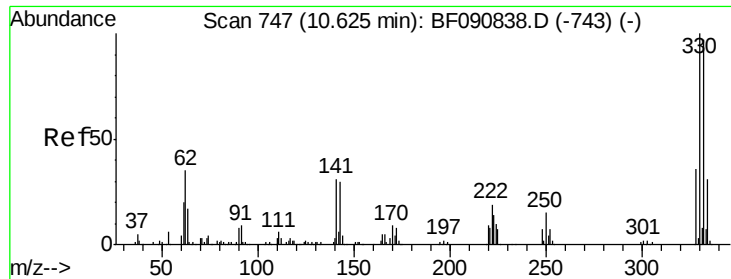
Ion Ratio Lower Upper

164 100

162 104.2 75.2 112.8

160 45.6 31.5 47.3

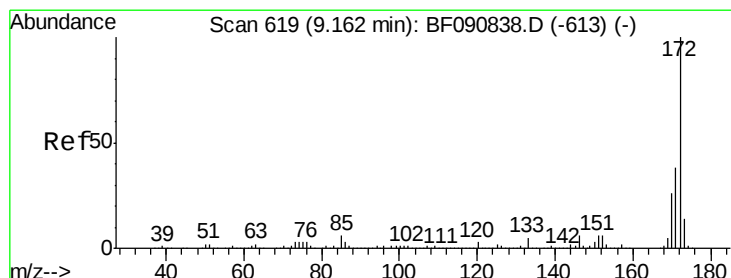
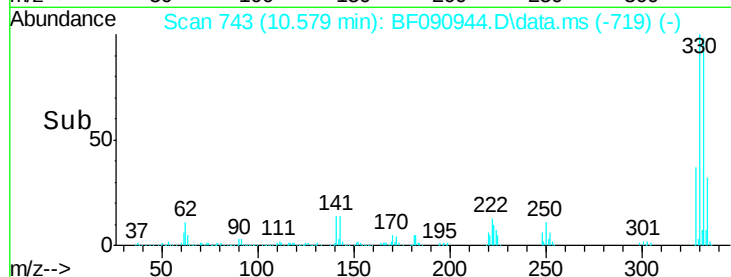
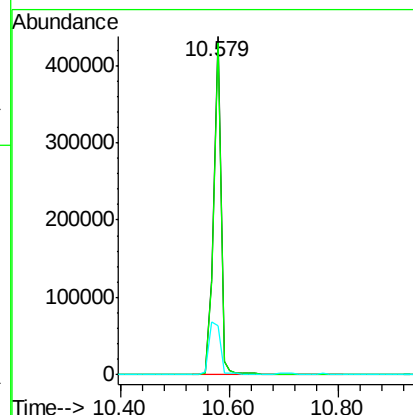
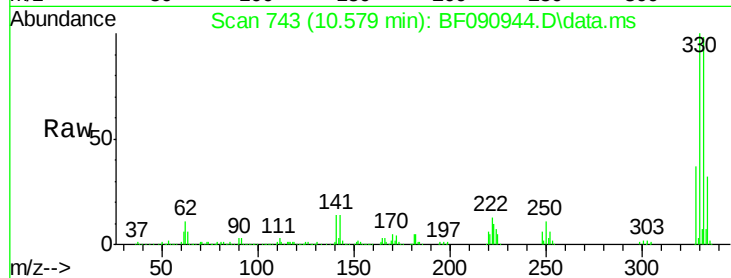




#41
 2,4,6-Tribromophenol
 Concen: 137.17 ng
 RT: 10.579 min Scan# 741
 Delta R.T. -0.023 min
 Lab File: BF090944.D
 Acq: 31 Oct 2016 22:33

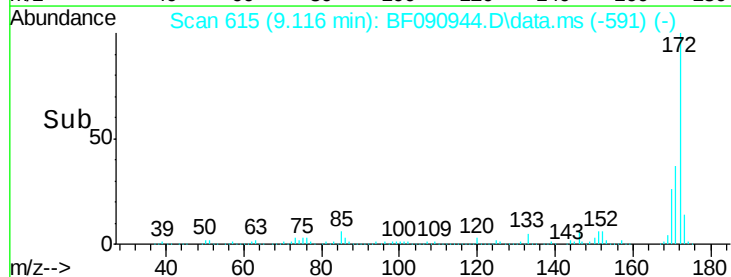
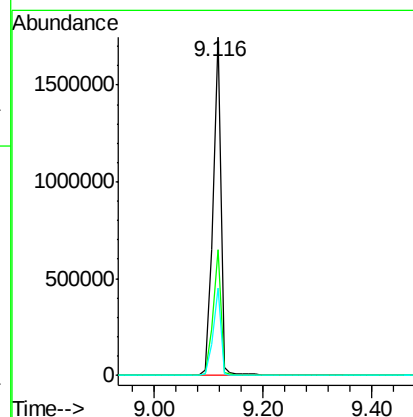
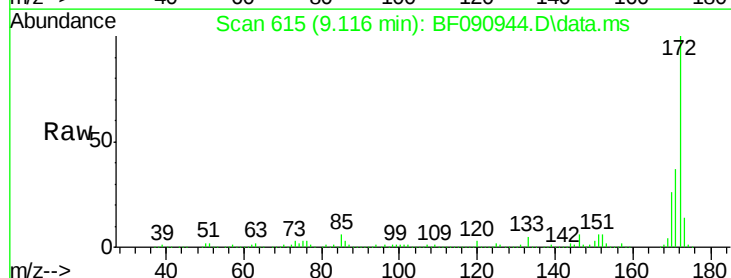
Instrument :
 BNA_F
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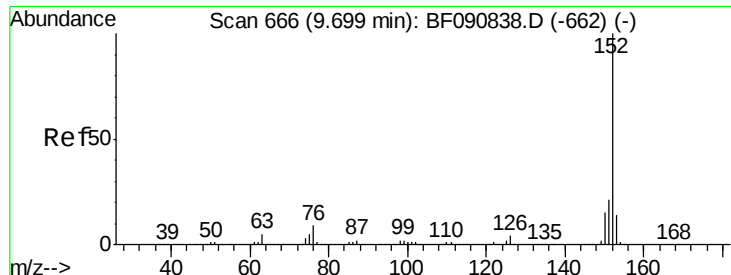
Tot Ion:330 Resp: 410540
 Ion Ratio Lower Upper
 330 100
 332 97.9 76.6 114.8
 141 23.5 29.7 44.5#



#44
 2-Fluorobiphenyl
 Concen: 104.42 ng
 RT: 9.116 min Scan# 615
 Delta R.T. -0.023 min
 Lab File: BF090944.D
 Acq: 31 Oct 2016 22:33

Tgt Ion:172 Resp: 1731854
 Ion Ratio Lower Upper
 172 100
 171 37.3 26.1 39.1
 170 25.7 17.4 26.2





#48

Acenaphthylene

Concen: 7.35 ng

RT: 9.642 min Scan# 666

Delta R.T. -0.034 min

Lab File: BF090944.D

Acq: 31 Oct 2016 22:33

Instrument :

BNA_F

ClientSampleId :

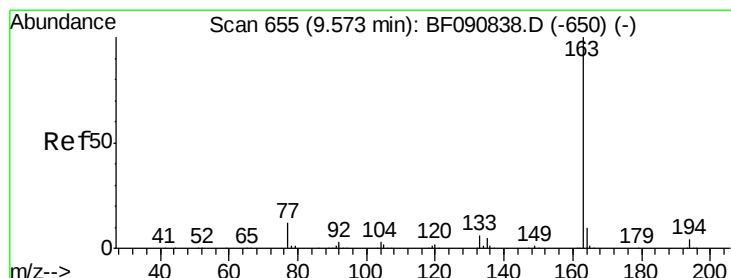
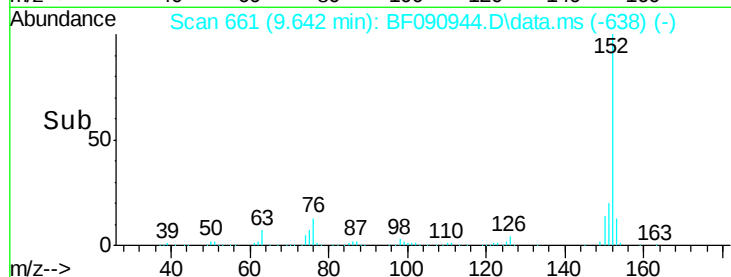
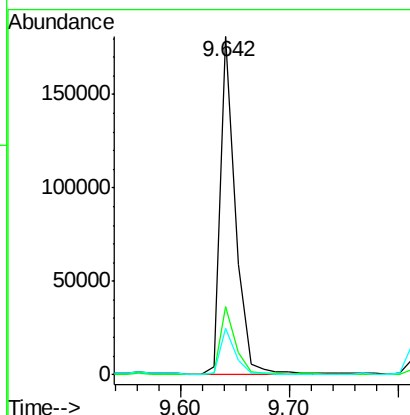
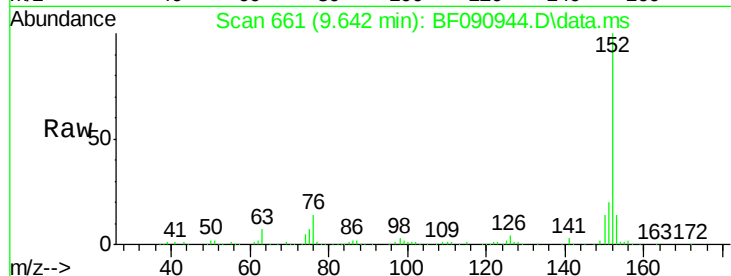
Tot Ion:152 Resp: 177670

Ion Ratio Lower Upper

152 100

151 20.1 14.6 22.0

153 13.6 10.3 15.5



#49

Dimethylphthalate

Concen: 15.95 ng

RT: 9.505 min Scan# 649

Delta R.T. -0.034 min

Lab File: BF090944.D

Acq: 31 Oct 2016 22:33

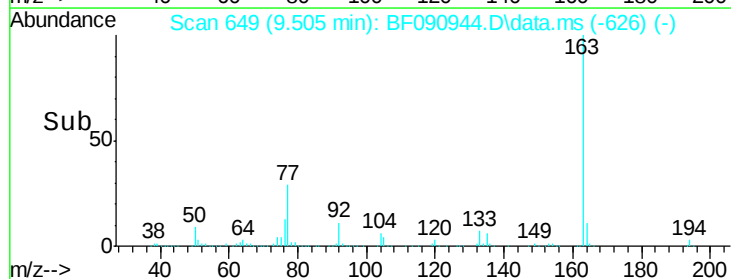
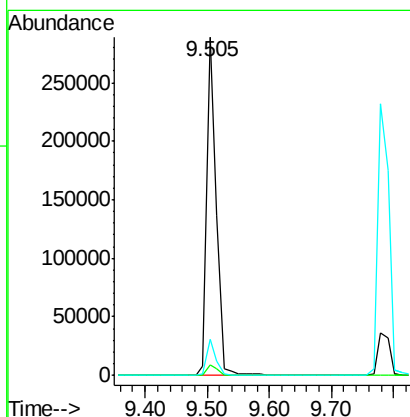
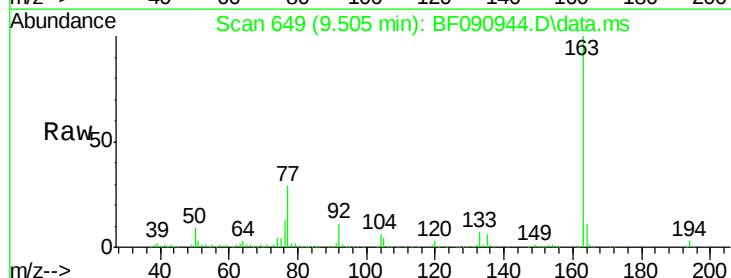
Tgt Ion:163 Resp: 310379

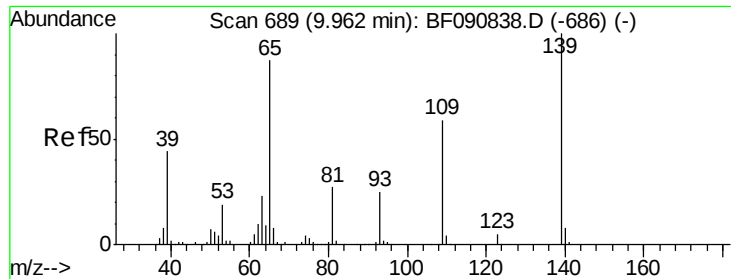
Ion Ratio Lower Upper

163 100

194 2.9 4.4 6.6#

164 10.5 8.3 12.5





#55

4-Nitrophenol

Concen: 5.06 ng

RT: 9.985 min Scan# 69

Delta R.T. 0.046 min

Lab File: BF090944.D

Acq: 31 Oct 2016 22:33

Instrument :

BNA_F

ClientSampleId :

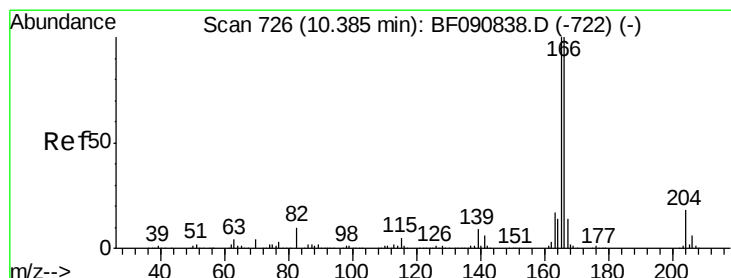
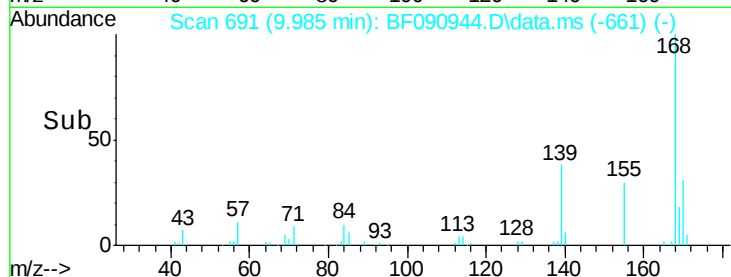
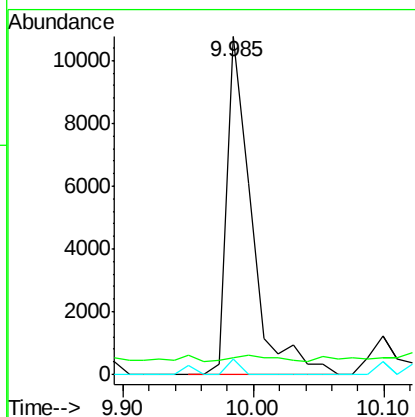
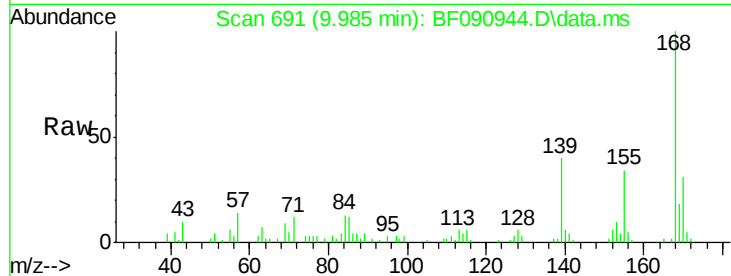
Tot Ion:139 Resp: 14127

Ion Ratio Lower Upper

139 100

109 5.0 12.7 52.7#

65 4.6 45.9 85.9#



#57

Fluorene

Concen: 3.09 ng

RT: 10.328 min Scan# 721

Delta R.T. -0.034 min

Lab File: BF090944.D

Acq: 31 Oct 2016 22:33

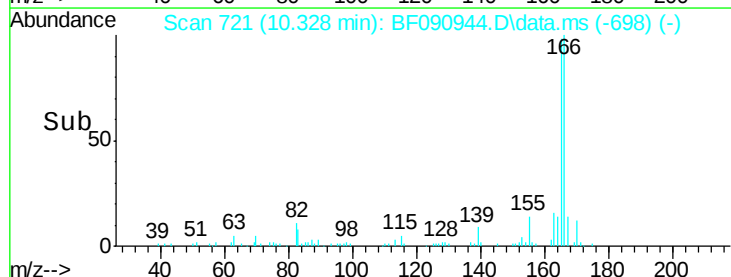
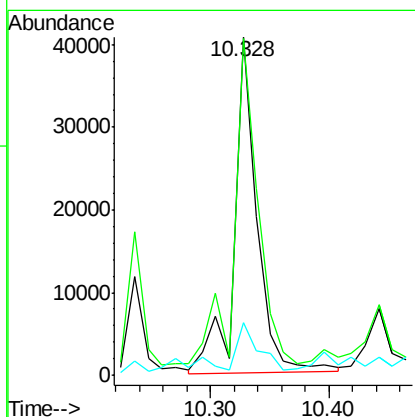
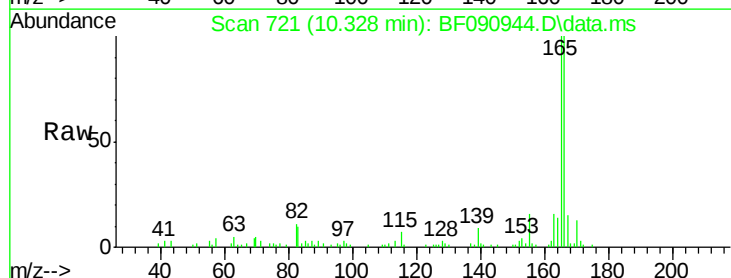
Tgt Ion:166 Resp: 54324

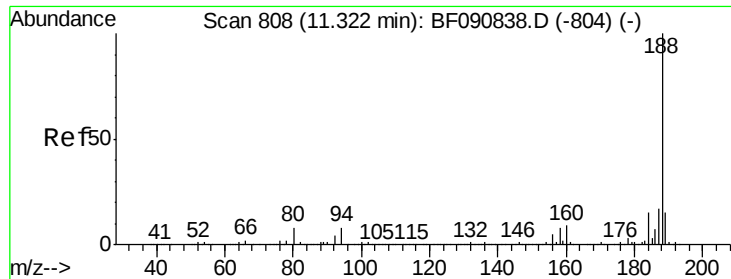
Ion Ratio Lower Upper

166 100

165 99.6 72.6 109.0

167 15.5 10.6 16.0

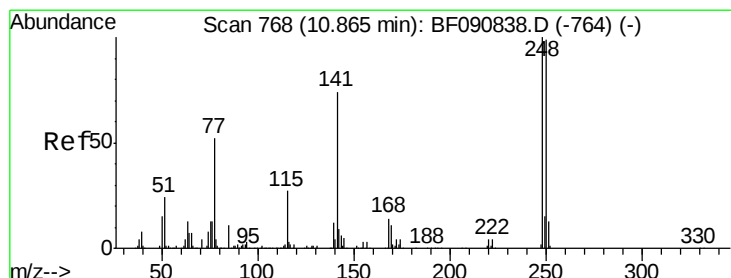
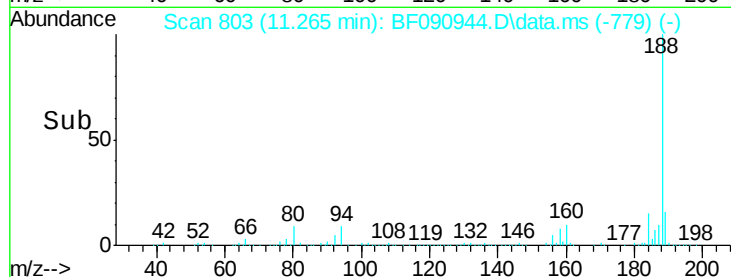
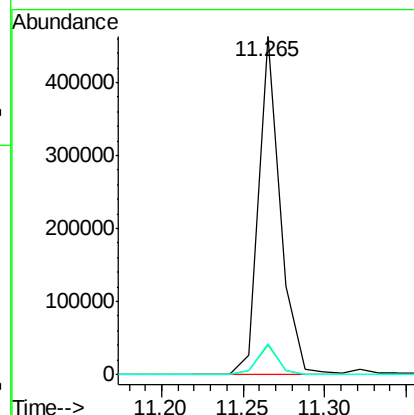
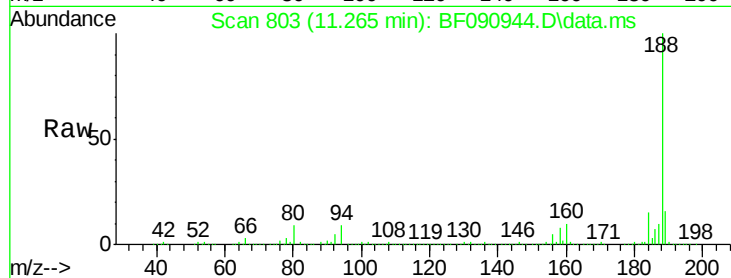




#63
 Phenanthrene-d10
 Concen: 20.00 ng
 RT: 11.265 min Scan# 80
 Delta R.T. -0.023 min
 Lab File: BF090944.D
 Acq: 31 Oct 2016 22:33

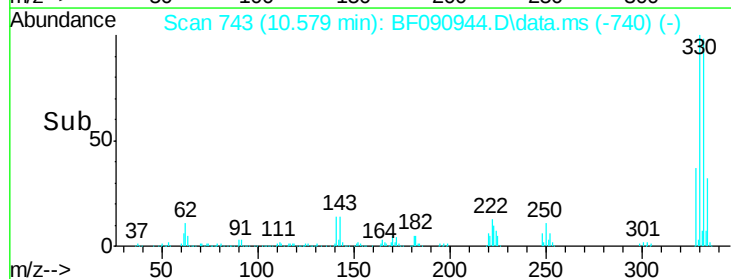
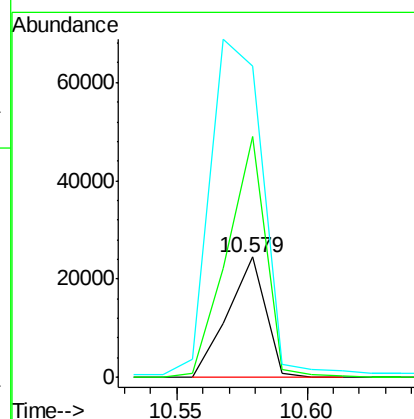
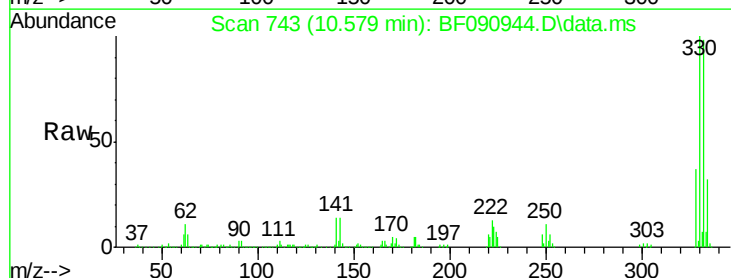
Instrument :
 BNA_F
 ClientSampleId :

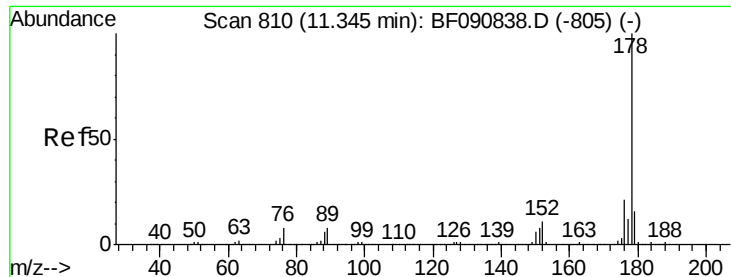
Tot Ion:188 Resp: 429310
 Ion Ratio Lower Upper
 188 100
 94 8.7 11.1 16.7#
 80 9.2 11.0 16.4#



#66
 4-Bromophenyl-phenylether
 Concen: 5.26 ng
 RT: 10.579 min Scan# 743
 Delta R.T. -0.263 min
 Lab File: BF090944.D
 Acq: 31 Oct 2016 22:33

Tgt Ion:248 Resp: 24717
 Ion Ratio Lower Upper
 248 100
 250 201.0 78.5 117.7#
 141 259.6 59.0 88.6#





#70

Phenanthrene

Concen: 18.69 ng

RT: 11.288 min Scan# 80

Delta R.T. -0.034 min

Lab File: BF090944.D

Acq: 31 Oct 2016 22:33

Instrument :

BNA_F

ClientSampleId :

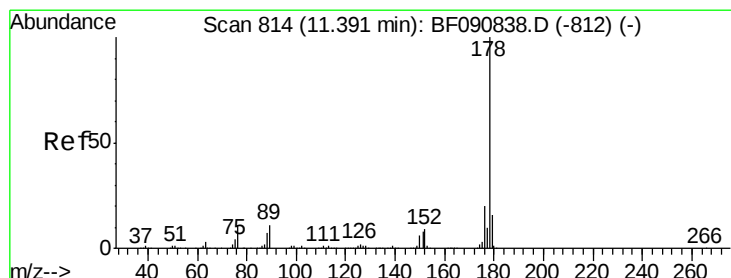
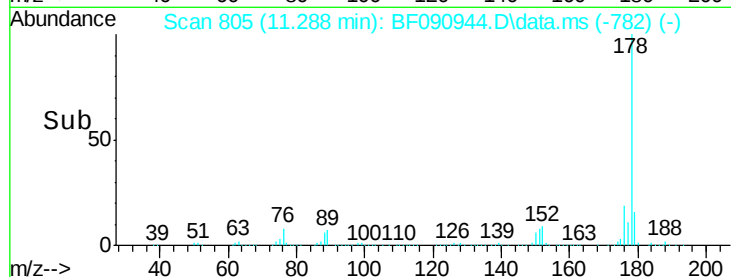
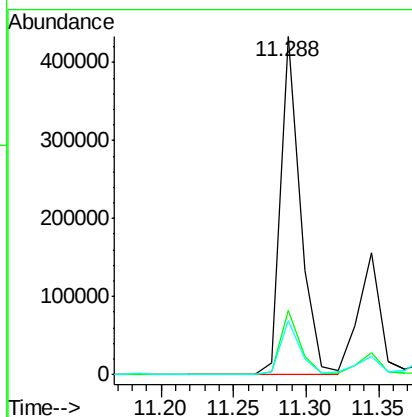
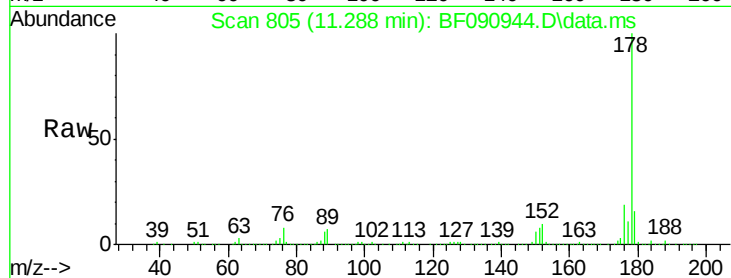
Tot Ion:178 Resp: 408693

Ion Ratio Lower Upper

178 100

176 19.0 13.8 20.8

179 15.8 12.2 18.2



#71

Anthracene

Concen: 7.81 ng

RT: 11.345 min Scan# 810

Delta R.T. -0.023 min

Lab File: BF090944.D

Acq: 31 Oct 2016 22:33

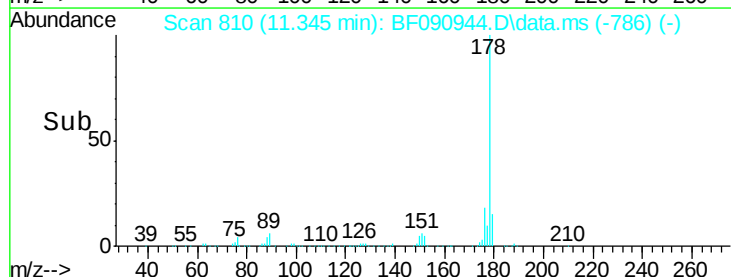
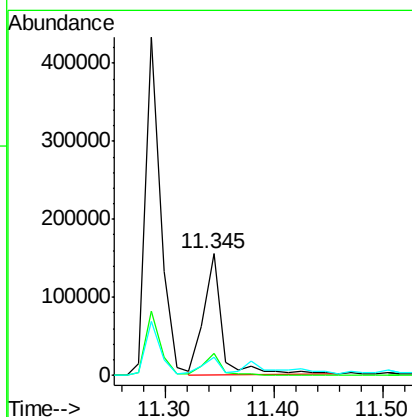
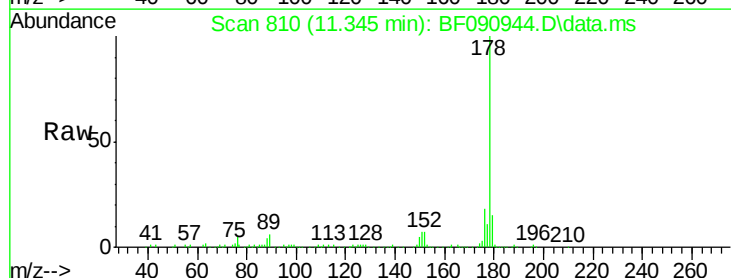
Tgt Ion:178 Resp: 179828

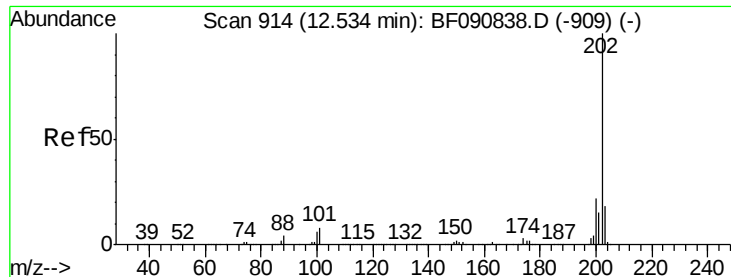
Ion Ratio Lower Upper

178 100

176 18.5 14.1 21.1

179 15.4 12.2 18.2





#74

Fluoranthene

Concen: 41.44 ng

RT: 12.476 min Scan# 90

Delta R.T. -0.023 min

Lab File: BF090944.D

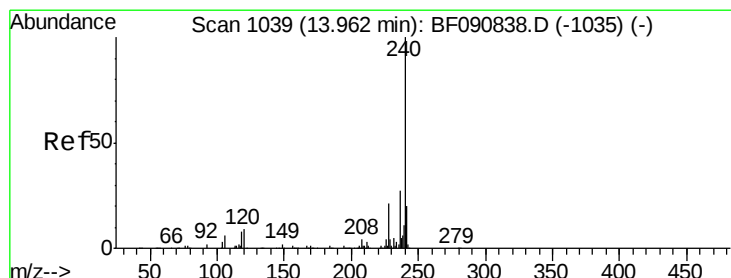
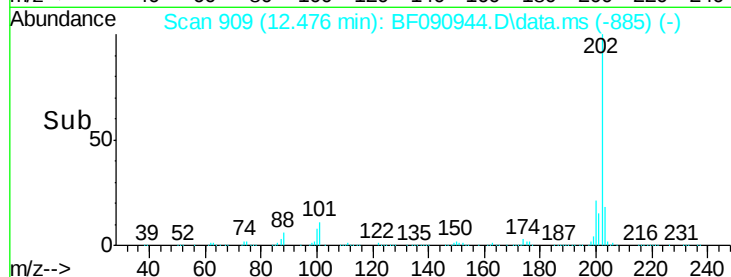
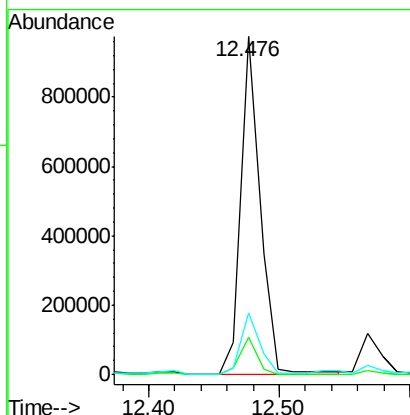
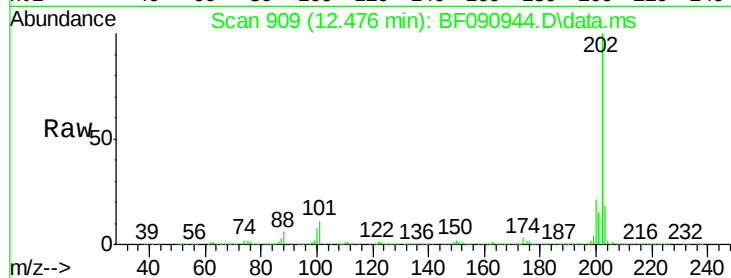
Acq: 31 Oct 2016 22:33

Instrument :

BNA_F

ClientSampleId :

Tot Ion:	202	Resp:	992021
Ion Ratio	Lower	Upper	
202	100		
101	11.1	0.0	38.3
203	18.2	0.0	37.3



#75

Chrysene-d12

Concen: 20.00 ng

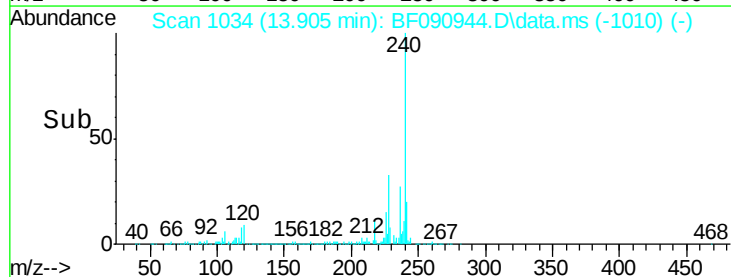
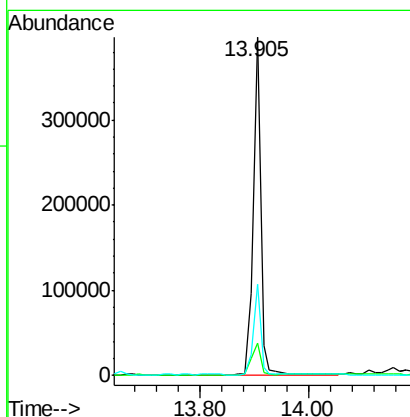
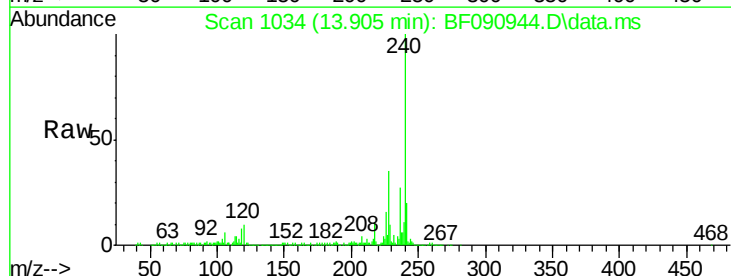
RT: 13.905 min Scan# 1034

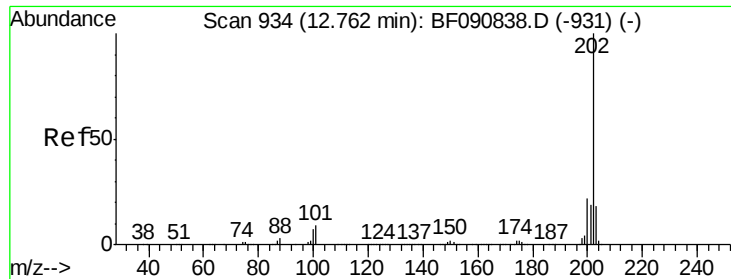
Delta R.T. -0.023 min

Lab File: BF090944.D

Acq: 31 Oct 2016 22:33

Tgt Ion:	240	Resp:	379667
Ion Ratio	Lower	Upper	
240	100		
120	9.6	16.2	24.2#
236	26.8	18.4	27.6

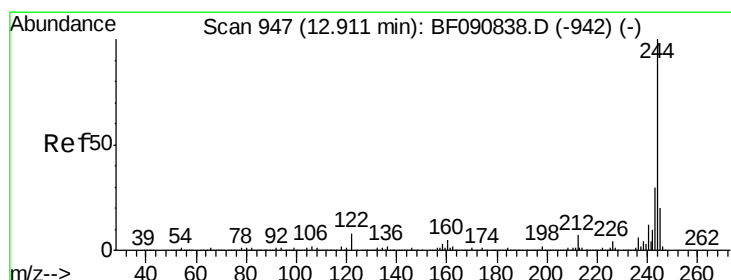
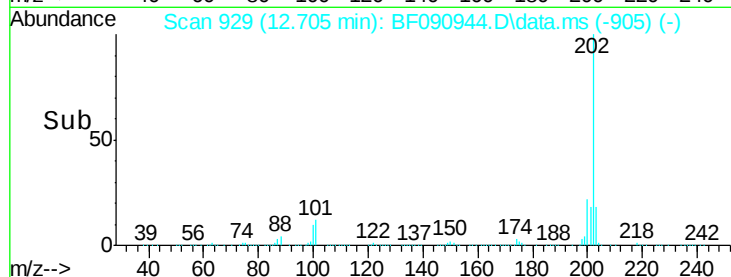
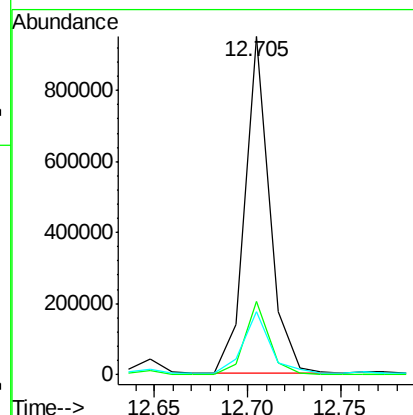
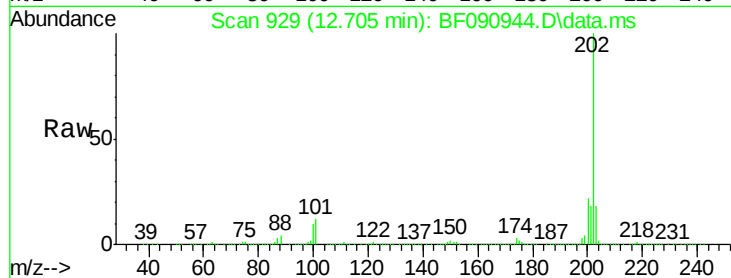




#77
 Pvrene
 Concen: 36.55 ng
 RT: 12.705 min Scan# 92
 Delta R.T. -0.023 min
 Lab File: BF090944.D
 Acq: 31 Oct 2016 22:33

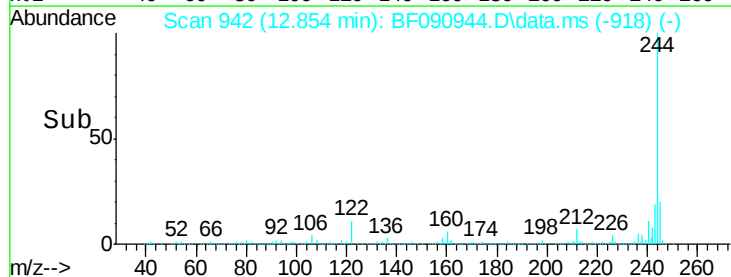
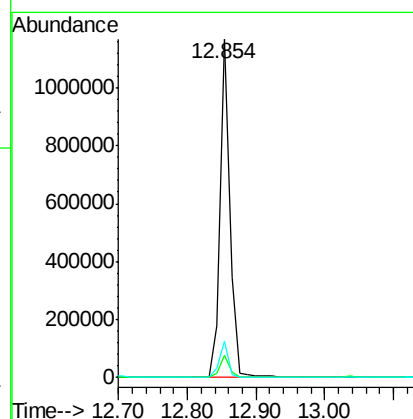
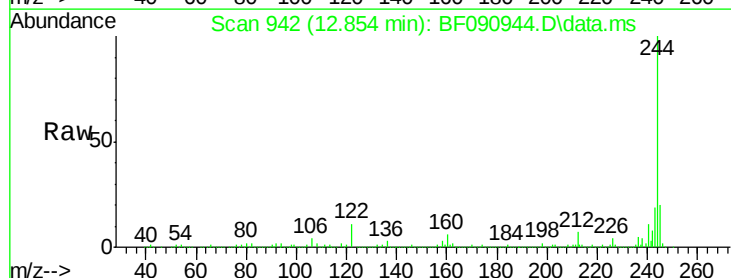
Instrument :
 BNA_F
 ClientSampleId :

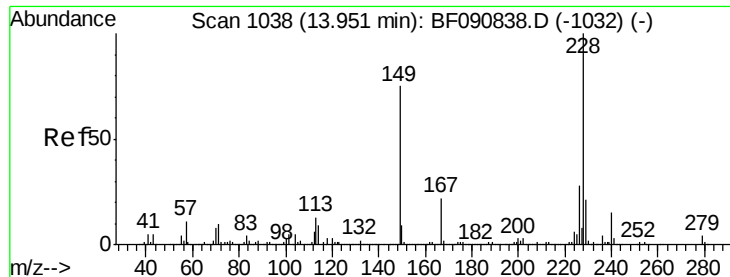
Tot Ion	Ratio	Lower	Upper
202	100		
200	21.6	15.0	22.4
203	18.5	14.1	21.1



#78
 Terphenyl-d14
 Concen: 79.17 ng
 RT: 12.854 min Scan# 942
 Delta R.T. -0.023 min
 Lab File: BF090944.D
 Acq: 31 Oct 2016 22:33

Tgt Ion	Ratio	Lower	Upper
244	100		
212	6.6	4.3	6.5#
122	10.7	17.4	26.2#





#80

Benzo(a)anthracene

Concen: 38.69 ng

RT: 13.894 min Scan# 1033

Delta R.T. -0.023 min

Lab File: BF090944.D

Acq: 31 Oct 2016 22:33

Instrument :

BNA_F

ClientSampleId :

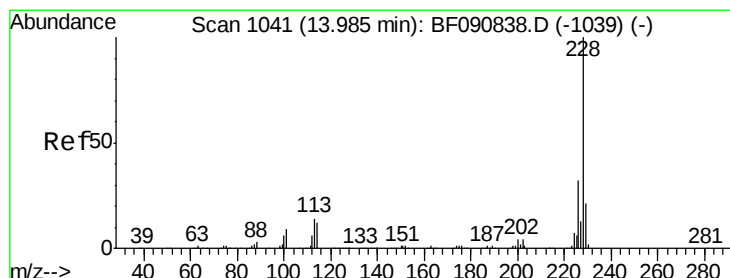
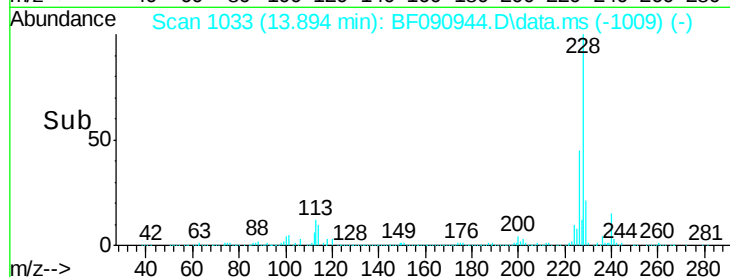
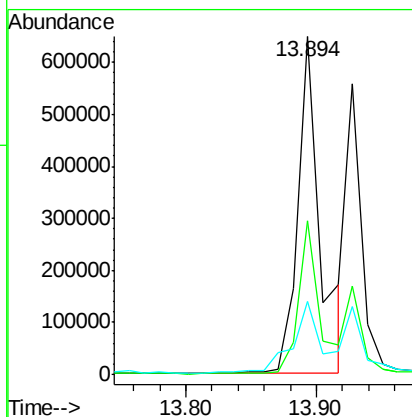
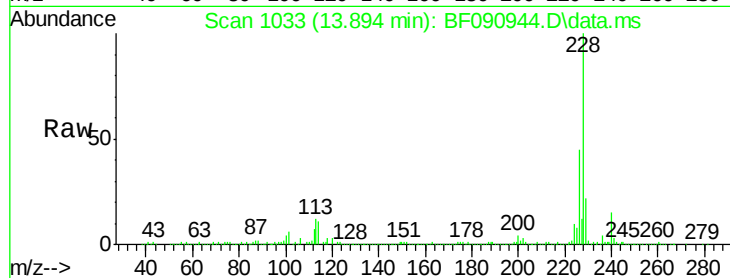
Tot Ion:228 Resp: 779663

Ion Ratio Lower Upper

228 100

226 45.3 20.0 30.0#

229 21.7 15.4 23.2



#82

Chrysene

Concen: 38.25 ng

RT: 13.894 min Scan# 1033

Delta R.T. -0.068 min

Lab File: BF090944.D

Acq: 31 Oct 2016 22:33

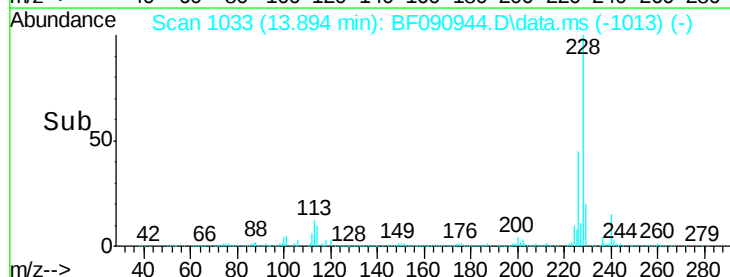
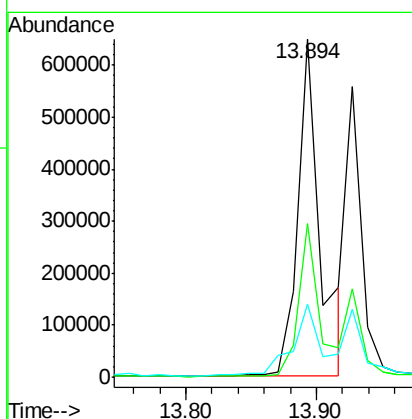
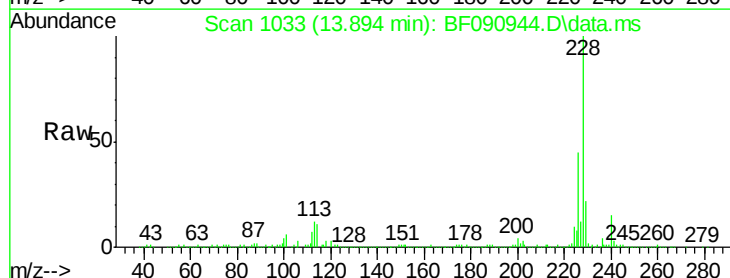
Tgt Ion:228 Resp: 779663

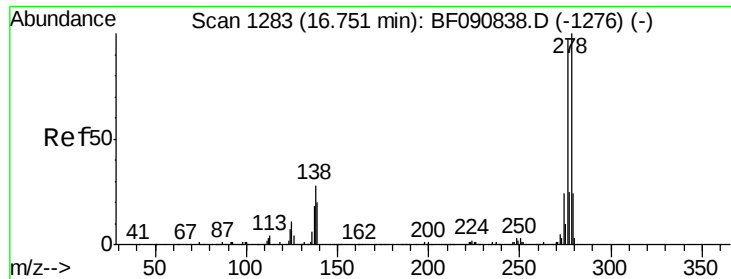
Ion Ratio Lower Upper

228 100

226 45.3 21.0 31.4#

229 21.7 15.6 23.4

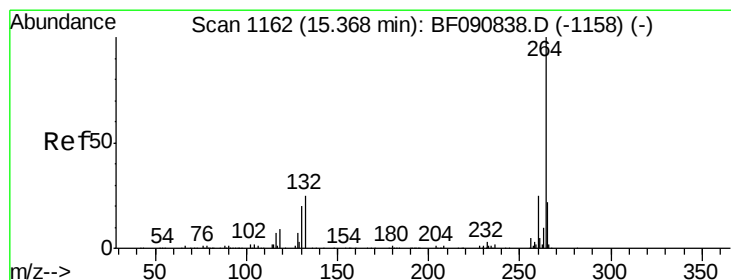
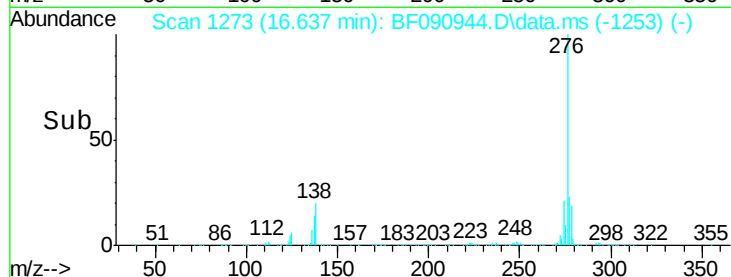
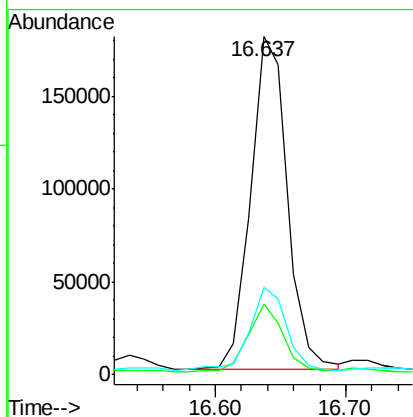
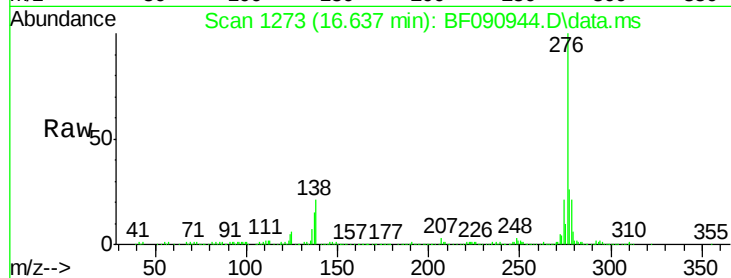




#85
 Indeno(1,2,3-cd)pyrene
 Concen: 19.27 ng
 RT: 16.637 min Scan# 1273
 Delta R.T. -0.068 min
 Lab File: BF090944.D
 Acq: 31 Oct 2016 22:33

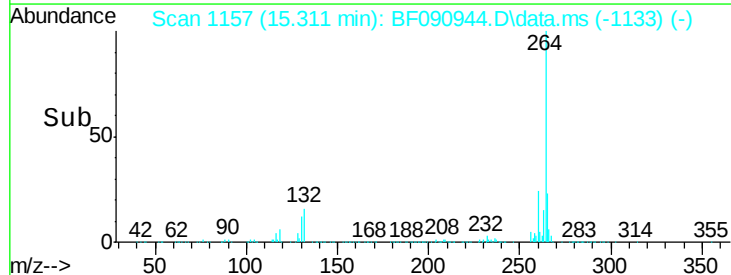
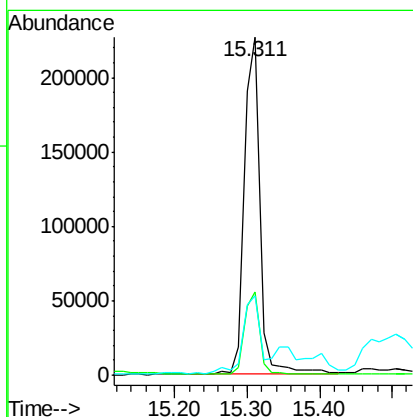
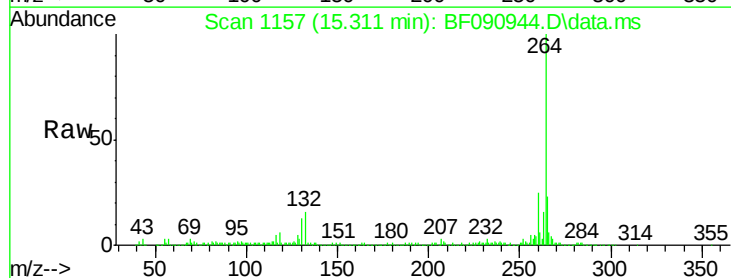
Instrument :
 BNA_F
 ClientSampleId :

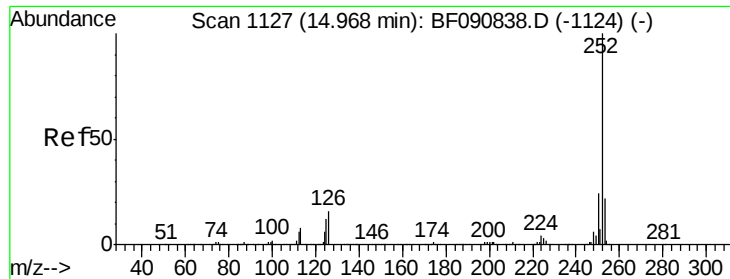
Tot Ion	Ratio	Lower	Upper
276	100		
138	19.5	25.7	38.5#
277	25.8	15.6	23.4#



#86
 Perylene-d12
 Concen: 20.00 ng
 RT: 15.311 min Scan# 1157
 Delta R.T. -0.023 min
 Lab File: BF090944.D
 Acq: 31 Oct 2016 22:33

Tgt Ion	Ratio	Lower	Upper
264	100		
260	24.8	16.7	25.1
265	23.3	17.2	25.8





#87

Benzo(b)fluoranthene

Concen: 55.06 ng

RT: 14.911 min Scan# 111

Delta R.T. -0.034 min

Lab File: BF090944.D

Acq: 31 Oct 2016 22:33

Instrument :

BNA_F

ClientSampleId :

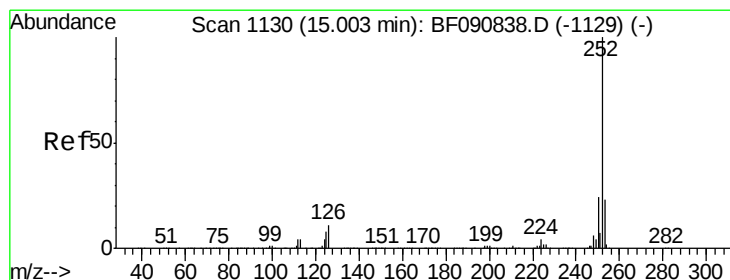
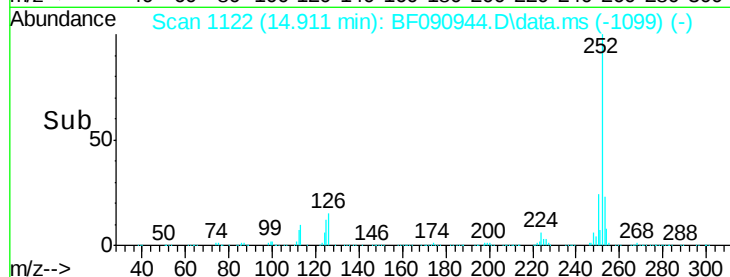
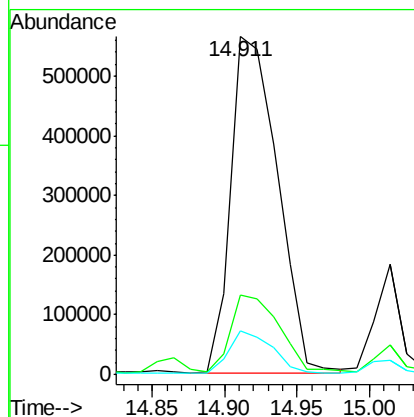
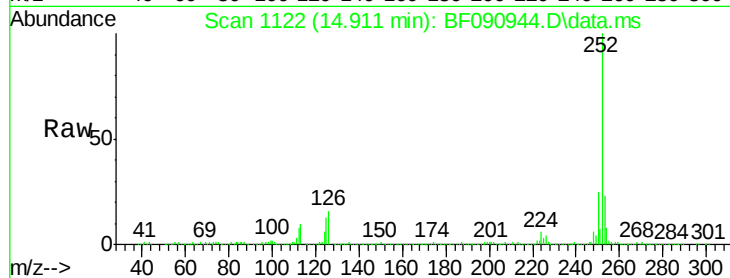
Tot Ion:252 Resp: 1256571

Ion Ratio Lower Upper

252 100

253 23.4 17.5 26.3

125 12.8 17.1 25.7#



#88

Benzo(k)fluoranthene

Concen: 19.75 ng

RT: 15.185 min Scan# 1146

Delta R.T. 0.217 min

Lab File: BF090944.D

Acq: 31 Oct 2016 22:33

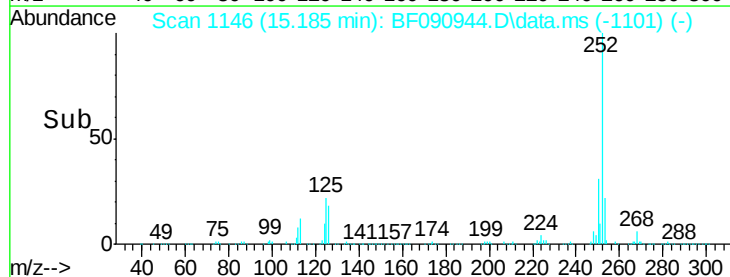
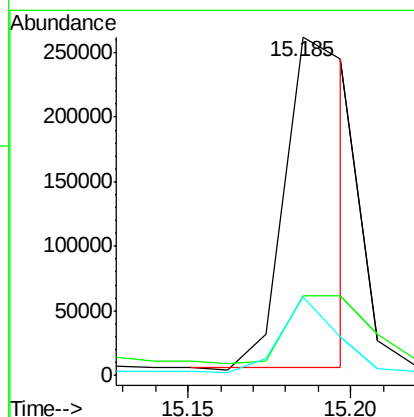
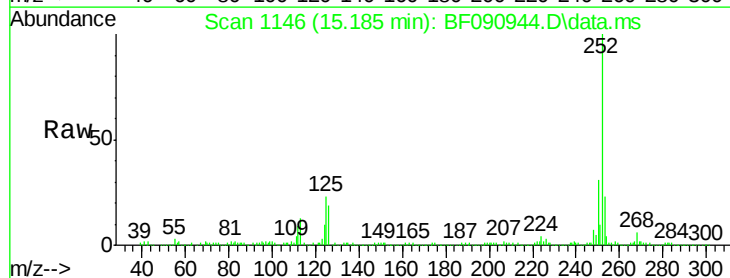
Tgt Ion:252 Resp: 356247

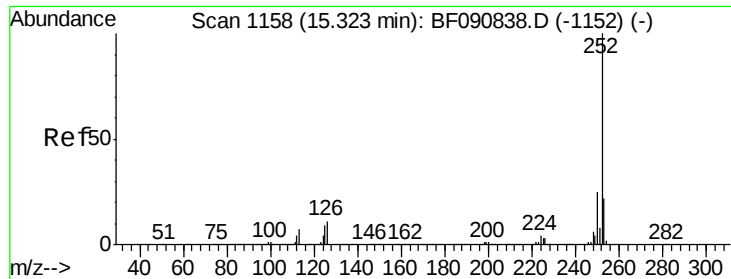
Ion Ratio Lower Upper

252 100

253 23.4 17.0 25.4

125 23.0 16.0 24.0





#89

Benzo(a)pyrene

Concen: 19.04 ng

RT: 15.185 min Scan# 11

Delta R.T. -0.103 min

Lab File: BF090944.D

Acq: 31 Oct 2016 22:33

Instrument :

BNA_F

ClientSampleId :

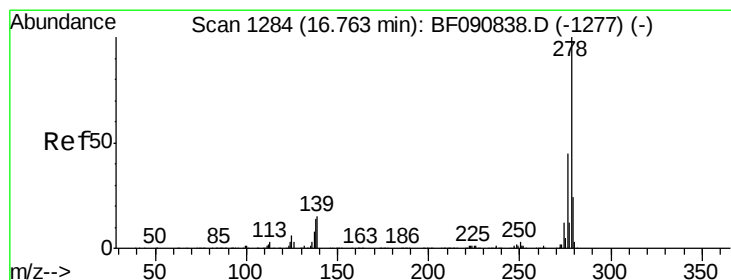
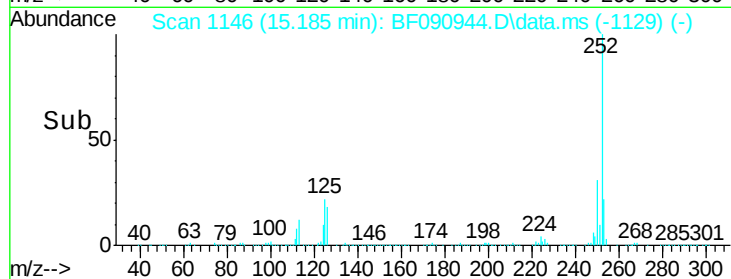
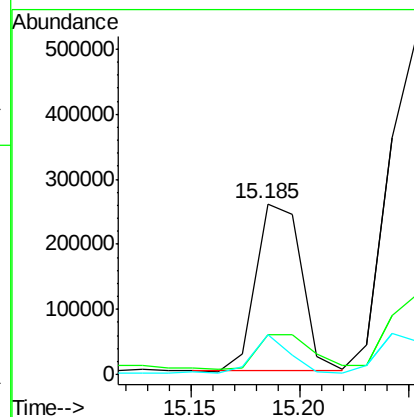
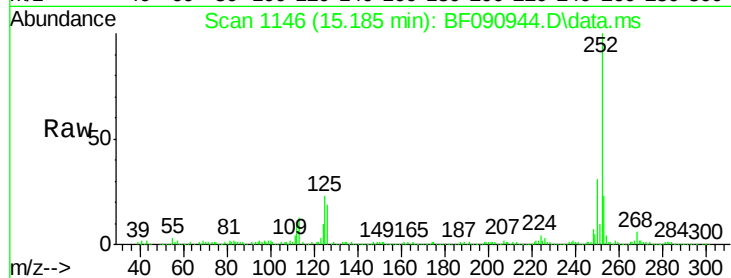
Tot Ion:252 Resp: 373429

Ion Ratio Lower Upper

252 100

253 23.4 17.2 25.8

125 23.0 18.0 27.0



#90

Dibenzo(a,h)anthracene

Concen: 2.28 ng

RT: 16.717 min Scan# 1280

Delta R.T. 0.000 min

Lab File: BF090944.D

Acq: 31 Oct 2016 22:33

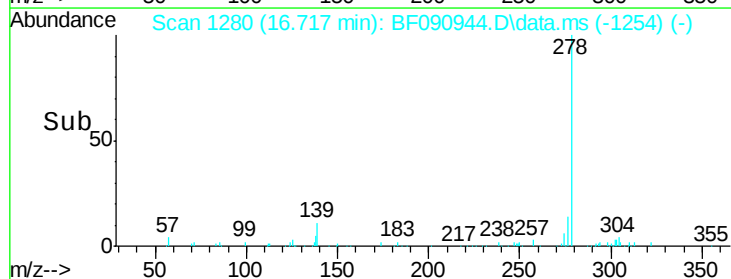
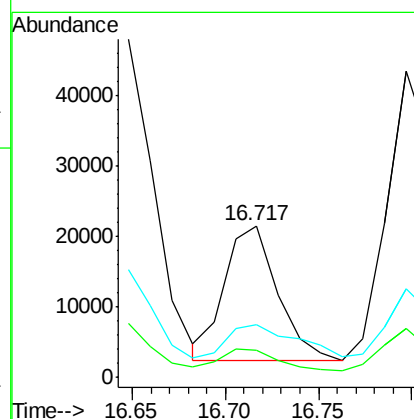
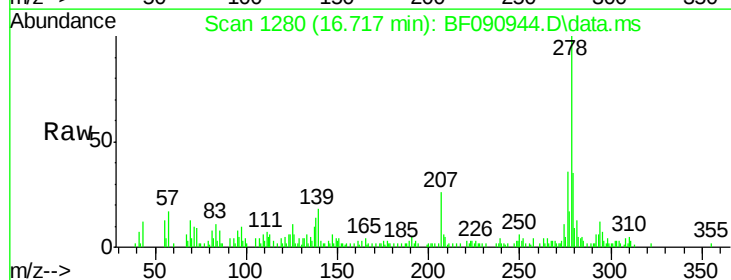
Tgt Ion:278 Resp: 37897

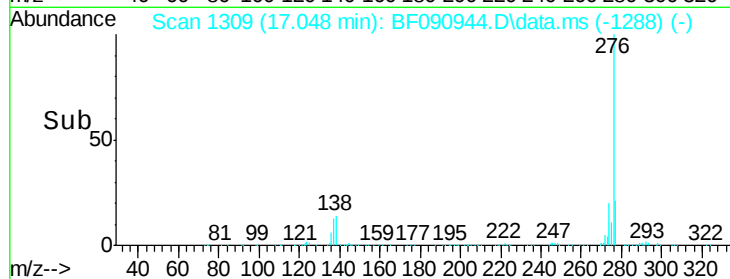
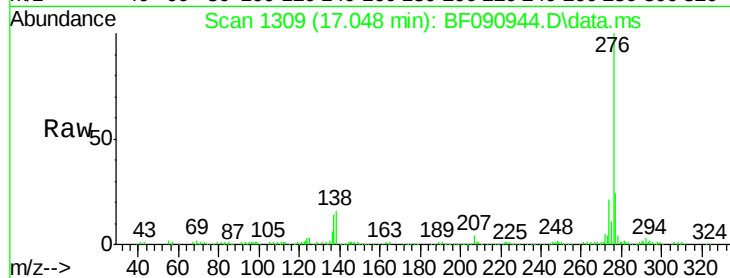
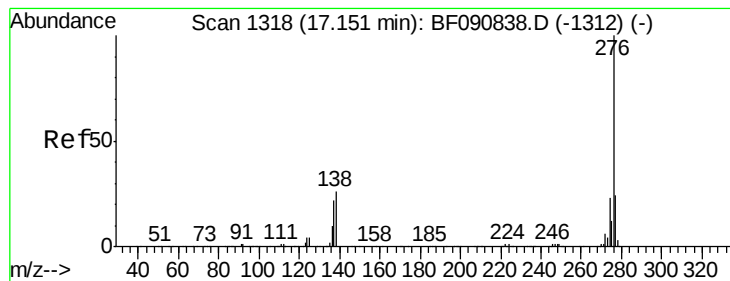
Ion Ratio Lower Upper

278 100

139 17.9 26.3 39.5#

279 35.1 18.2 27.4#





#91

Benzo(a,h,i)perylene

Concen: 17.99 ng

RT: 17.048 min Scan# 13

Delta R.T. -0.057 min

Lab File: BF090944.D

Acq: 31 Oct 2016 22:33

Instrument :

BNA_F

ClientSampleId :

Tot Ion:276 Resp: 281342

Ion Ratio Lower Upper

276 100

277 23.8 17.8 26.6

138 15.7 34.6 51.8#

