

Data Path : Z:\HPCHEM1\BNA F\Data\BF051216\
 Data File : BF086972.D
 Acq On : 13 May 2016 13:33
 Operator : UM/SJ
 Sample : H2965-02DL 2X
 Misc :
 ALS Vial : 50 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: May 13 15:09:30 2016
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF050916.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri May 13 14:55:23 2016
 Response via : Initial Calibration

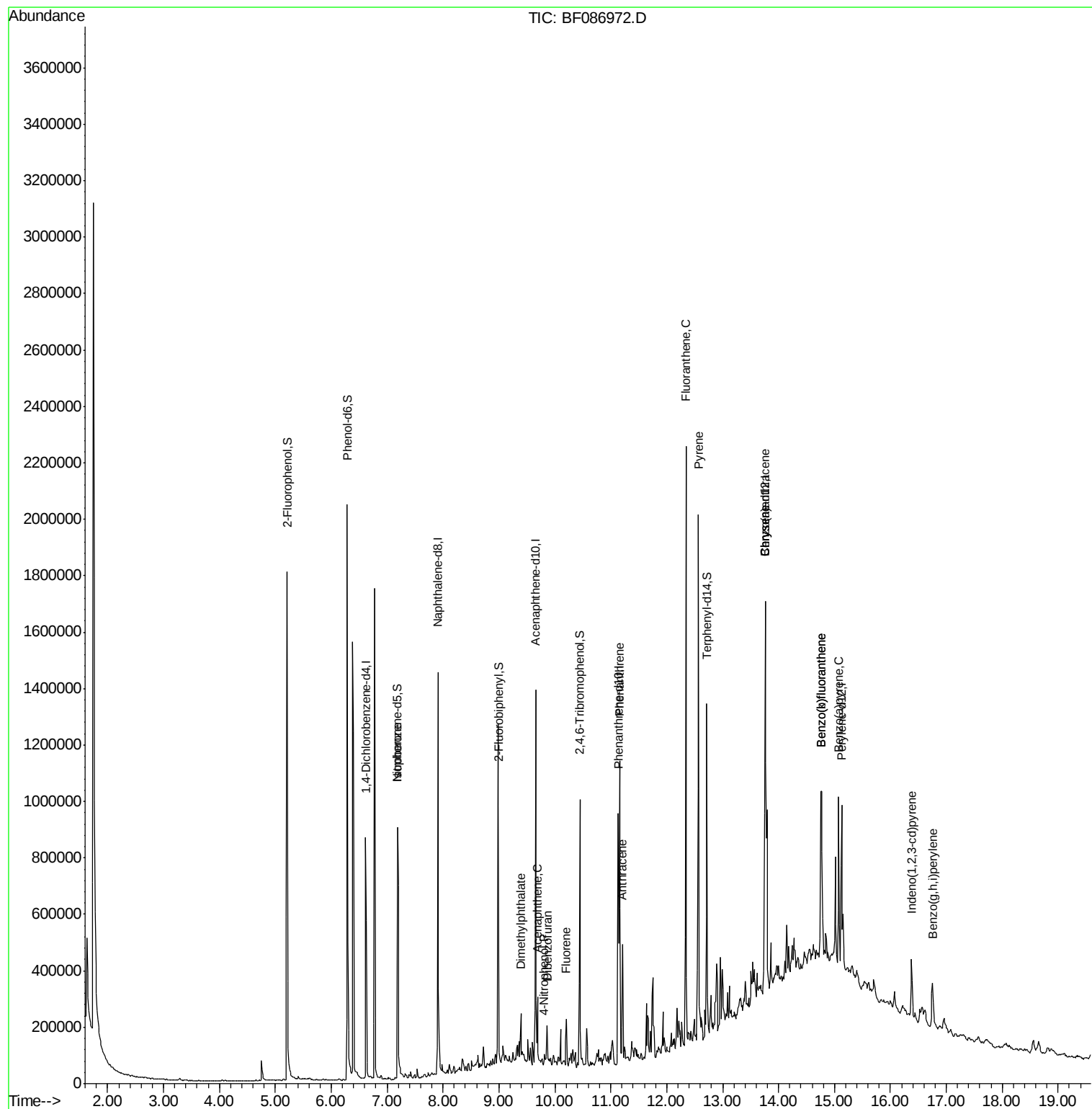
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.62	152	151892	20.00	ng	-0.08
21) Naphthalene-d8	7.91	136	577345	20.00	ng	-0.08
38) Acenaphthene-d10	9.66	164	236547	20.00	ng	-0.08
63) Phenanthrene-d10	11.13	188	355893	20.00	ng	-0.08
75) Chrysene-d12	13.76	240	320487	20.00	ng	-0.08
86) Perylene-d12	15.13	264	275381	20.00	ng	-0.08
System Monitoring Compounds						
5) 2-Fluorophenol	5.21	112	517443	57.69	ng	-0.08
7) Phenol-d6	6.28	99	668781	55.79	ng	-0.08
23) Nitrobenzene-d5	7.19	82	390636	33.97	ng	-0.08
41) 2,4,6-Tribromophenol	10.44	330	97501	38.93	ng	-0.08
44) 2-Fluorobiphenyl	8.99	172	510047	36.24	ng	-0.07
78) Terphenyl-d14	12.72	244	358883	23.76	ng	-0.08
Target Compounds						
25) Isophorone	7.19	82	374187	17.54	ng	# 69
49) Dimethylphthalate	9.39	163	52807	2.93	ng	100
51) Acenaphthene	9.69	154	46804	3.47	ng	98
54) Dibenzofuran	9.86	168	38858	2.24	ng	98
55) 4-Nitrophenol	9.80	139	670	4.80	ng	# 1
57) Fluorene	10.20	166	50964	3.45	ng	98
60) 4-Chlorophenyl-phenylether	9.93	204	260	Below Cal		# 1
70) Phenanthrene	11.15	178	461264	24.29	ng	99
71) Anthracene	11.21	178	178234	9.18	ng	98
74) Fluoranthene	12.34	202	788737	40.38	ng	97
77) Pyrene	12.57	202	812794	33.13	ng	99
80) Benzo(a)anthracene	13.76	228	395944	22.01	ng	98
82) Chrysene	13.76	228	395944	21.63	ng	97
85) Indeno(1,2,3-cd)pyrene	16.38	276	131822	8.66	ng	# 86
87) Benzo(b)fluoranthene	14.77	252	476715	26.64	ng	97
88) Benzo(k)fluoranthene	14.77	252	476715	32.53	ng	99
89) Benzo(a)pyrene	15.07	252	257155	16.66	ng	97
91) Benzo(g,h,i)perylene	16.75	276	120811	9.14	ng	# 92

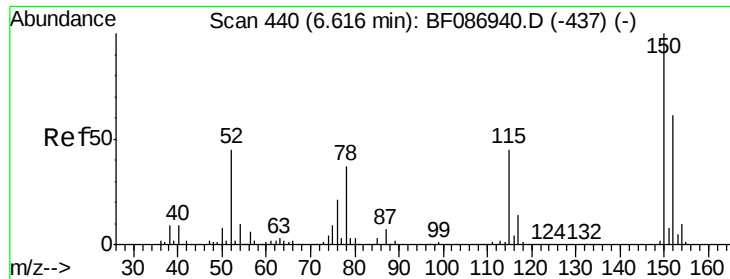
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\HPCHEM1\BNA F\Data\BF051216\
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Misc :
ALS Vial : 50 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :

Quant Time: May 13 15:09:30 2016
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF050916.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri May 13 14:55:23 2016
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.62 min Scan# 440

Delta R.T. -0.08 min

Lab File: BF086972.D

Acq: 13 May 2016 13:33

Instrument :

BNA_F

ClientSampled :

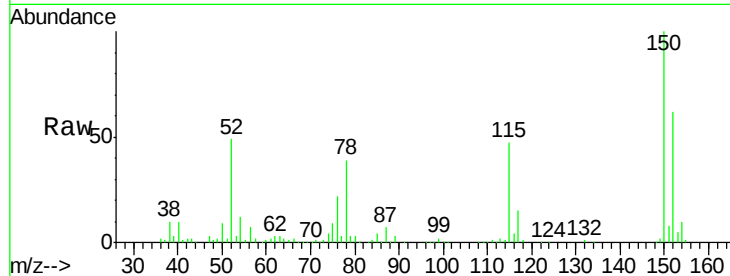
Tot Ion:152 Resp: 151892

Ion Ratio Lower Upper

152 100

150 161.8 125.8 188.6

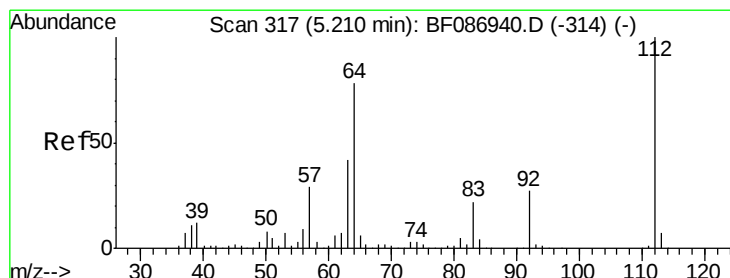
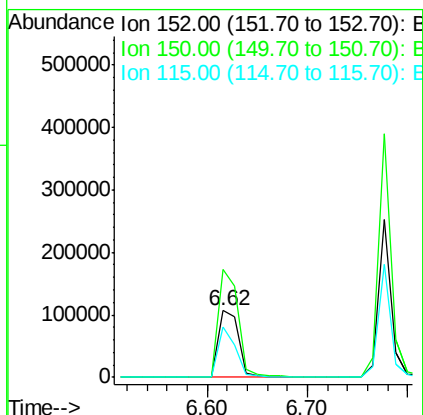
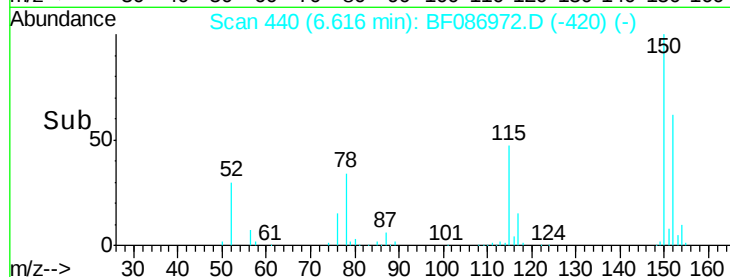
115 76.1 51.5 77.3



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol

Concen: 57.69 ng

RT: 5.21 min Scan# 317

Delta R.T. -0.08 min

Lab File: BF086972.D

Acq: 13 May 2016 13:33

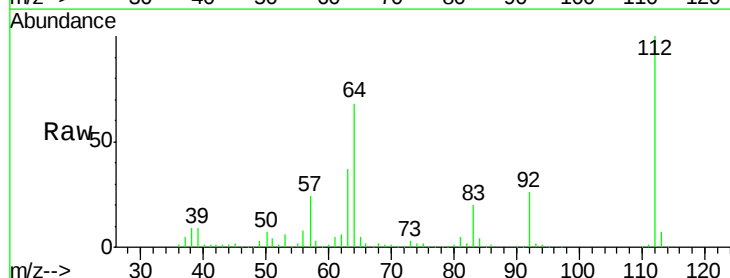
Tgt Ion:112 Resp: 517443

Ion Ratio Lower Upper

112 100

64 67.8 52.1 78.1

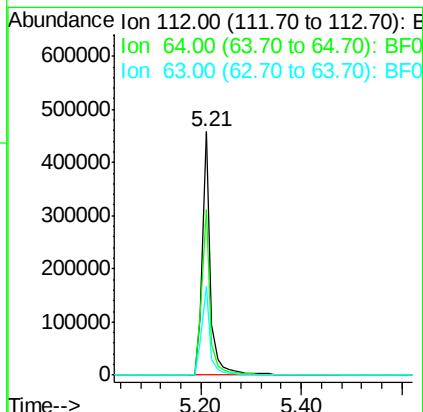
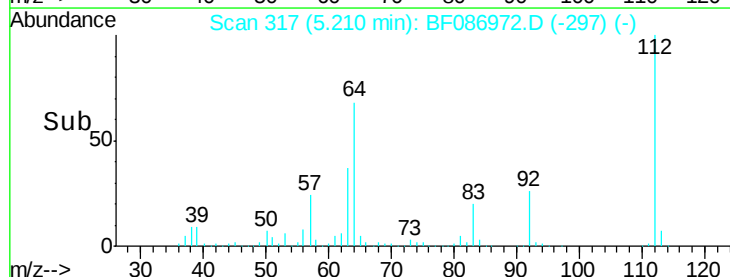
63 36.6 25.7 38.5

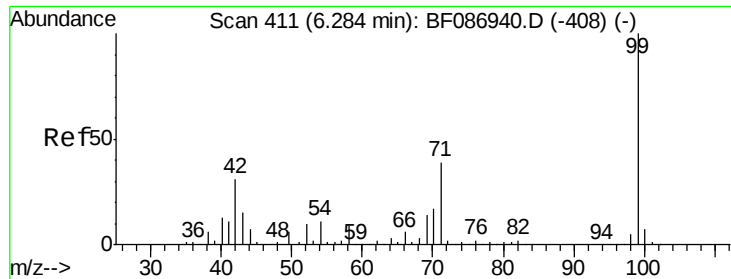


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 55.79 ng

RT: 6.28 min Scan# 411

Delta R.T. -0.08 min

Lab File: BF086972.D

Acq: 13 May 2016 13:33

Instrument :

BNA_F

ClientSampleId :

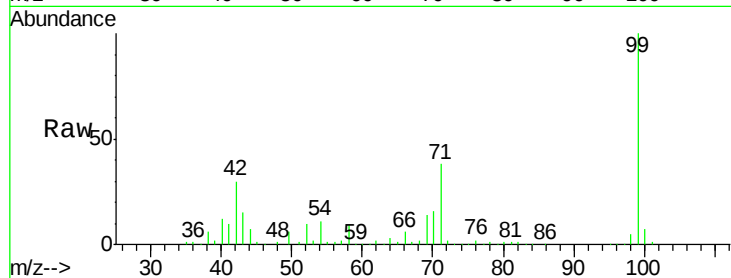
Tot Ion: 99 Resp: 668781

Ion Ratio Lower Upper

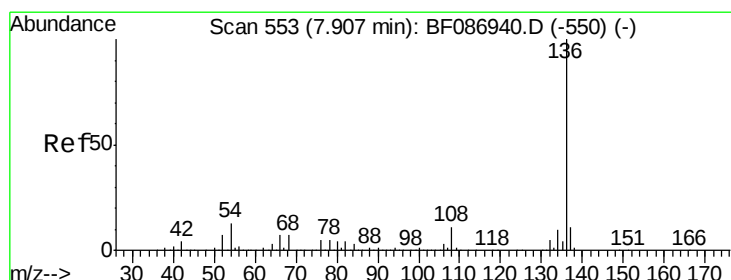
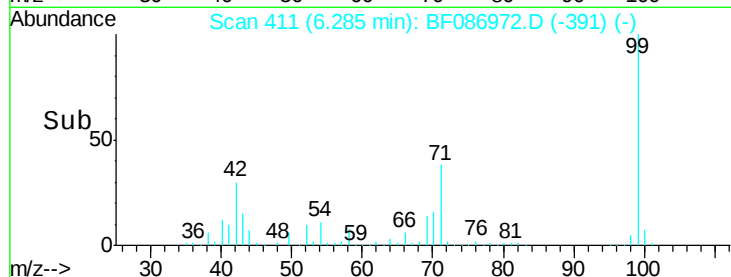
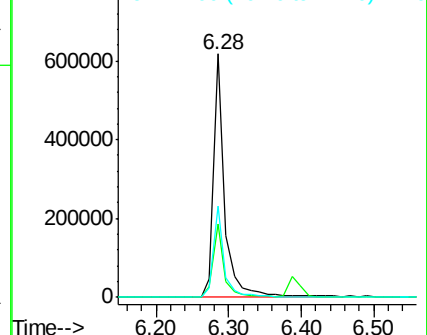
99 100

42 29.9 13.6 20.4#

71 37.6 24.6 36.8#



Abundance Ion 99.00 (98.70 to 99.70): BF0
Ion 42.00 (41.70 to 42.70): BF0
Ion 71.00 (70.70 to 71.70): BF0



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 7.91 min Scan# 553

Delta R.T. -0.08 min

Lab File: BF086972.D

Acq: 13 May 2016 13:33

Tgt Ion: 136 Resp: 577345

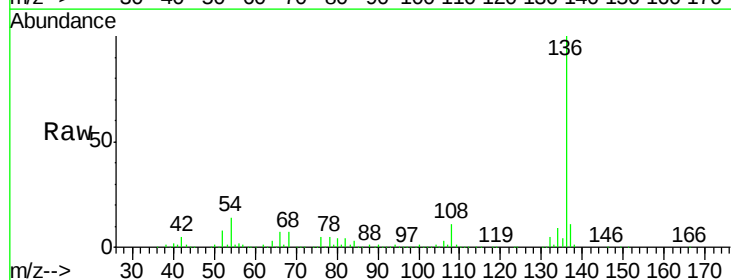
Ion Ratio Lower Upper

136 100

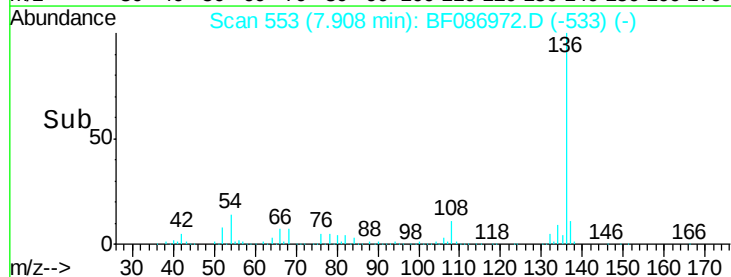
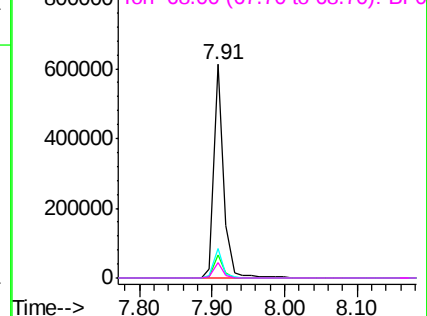
137 11.0 8.8 13.2

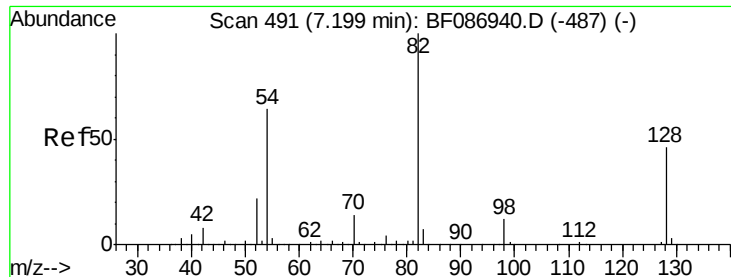
54 13.8 5.0 7.4#

68 7.4 4.4 6.6#



Abundance Ion 136.00 (135.70 to 136.70): E
Ion 137.00 (136.70 to 137.70): E
Ion 54.00 (53.70 to 54.70): BF0
Ion 68.00 (67.70 to 68.70): BF0

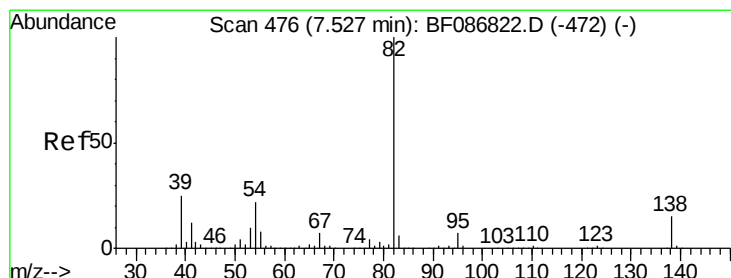
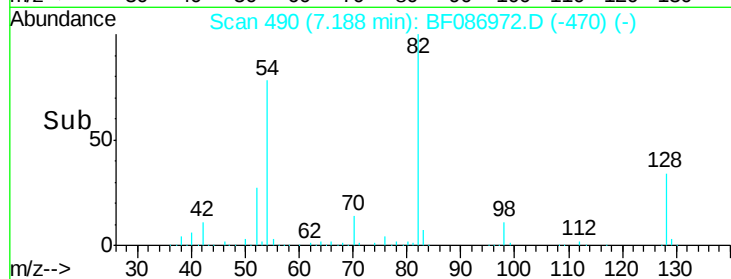
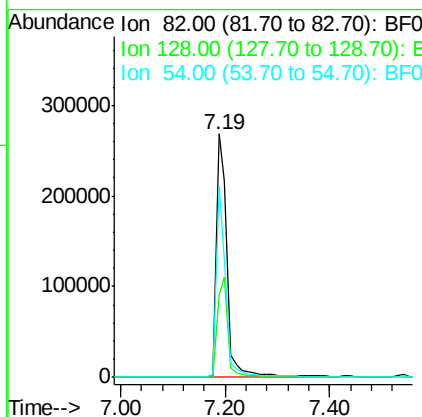
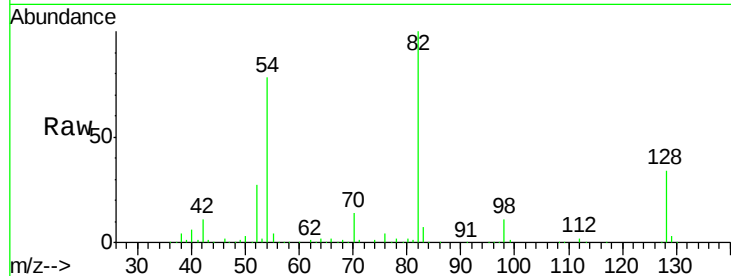




#23
 Nitrobenzene-d5
 Concen: 33.97 ng
 RT: 7.19 min Scan# 490
 Delta R.T. -0.08 min
 Lab File: BF086972.D
 Acq: 13 May 2016 13:33

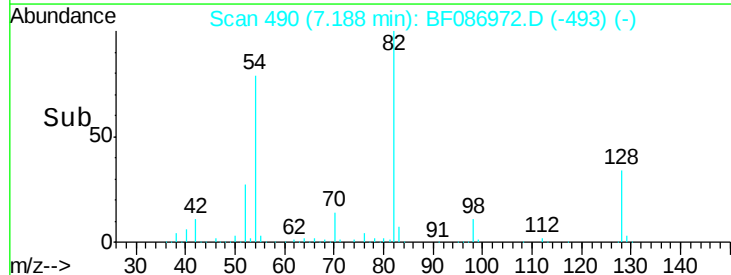
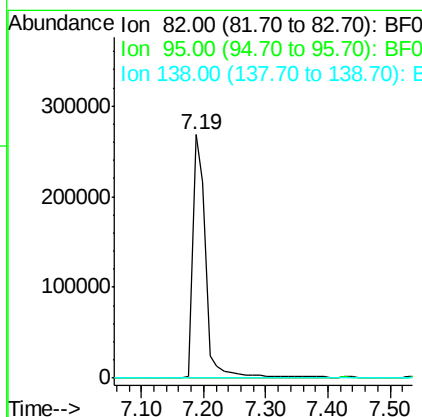
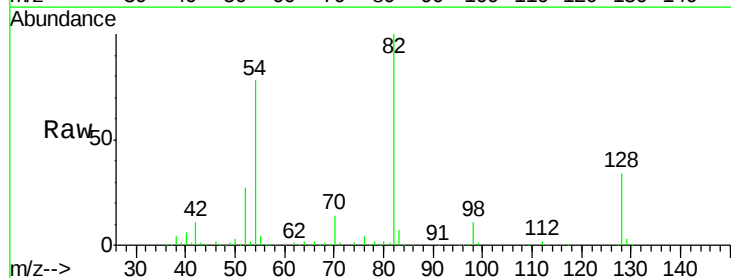
Instrument :
 BNA_F
 ClientSampleId :

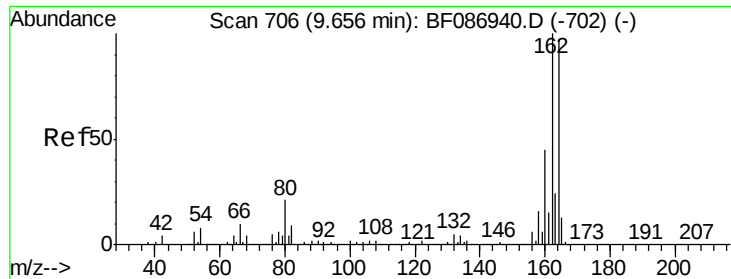
Tot Ion: 82 Resp: 390636
 Ion Ratio Lower Upper
 82 100
 128 33.9 40.6 61.0#
 54 78.3 38.1 57.1#



#25
 Isophorone
 Concen: 17.54 ng
 RT: 7.19 min Scan# 490
 Delta R.T. -0.34 min
 Lab File: BF086972.D
 Acq: 13 May 2016 13:33

Tgt Ion: 82 Resp: 374187
 Ion Ratio Lower Upper
 82 100
 95 0.2 5.1 7.7#
 138 0.0 12.4 18.6#





#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.66 min Scan# 706

Delta R.T. -0.08 min

Lab File: BF086972.D

Acq: 13 May 2016 13:33

Instrument :

BNA_F

ClientSampleId :

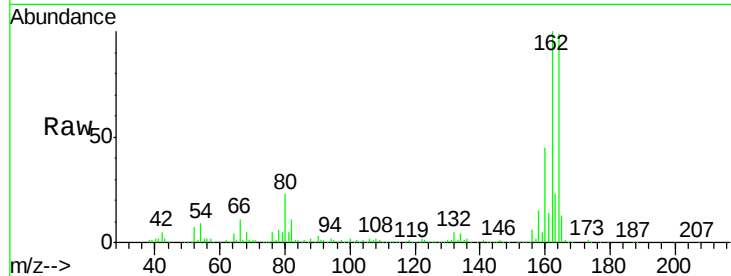
Tot Ion:164 Resp: 236547

Ion Ratio Lower Upper

164 100

162 101.2 82.8 124.2

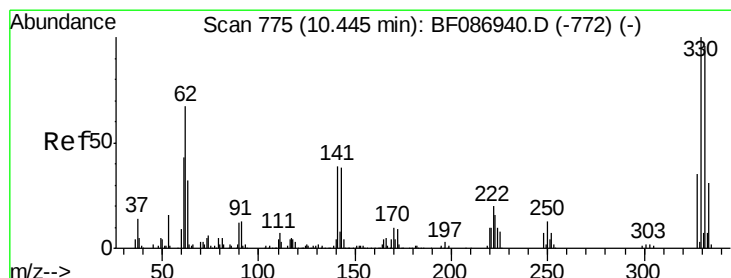
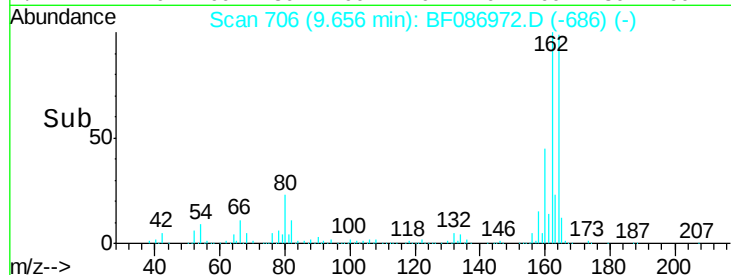
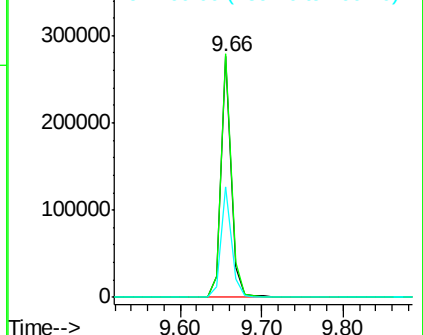
160 45.9 36.9 55.3



Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E



#41

2,4,6-Tribromophenol

Concen: 38.93 ng

RT: 10.44 min Scan# 775

Delta R.T. -0.08 min

Lab File: BF086972.D

Acq: 13 May 2016 13:33

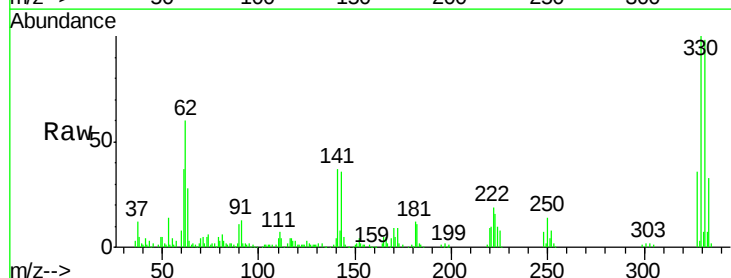
Tgt Ion:330 Resp: 97501

Ion Ratio Lower Upper

330 100

332 98.2 79.0 118.4

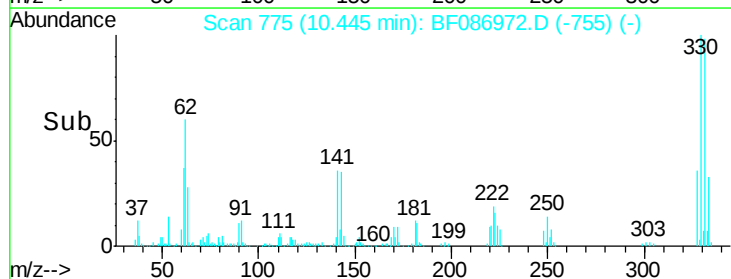
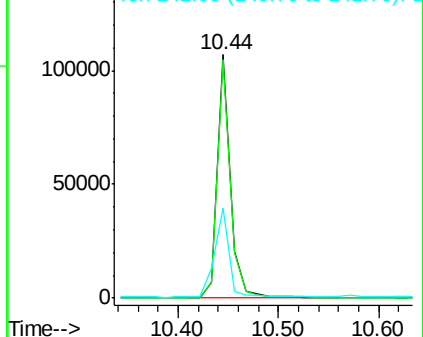
141 40.6 31.2 46.8

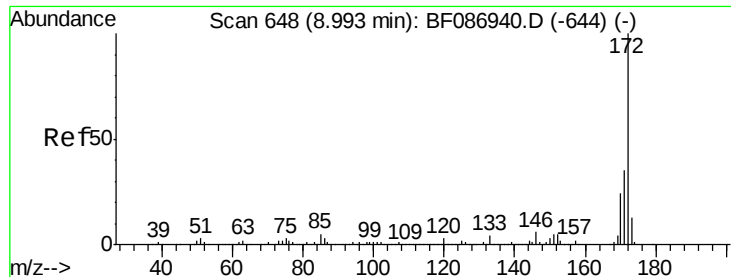


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

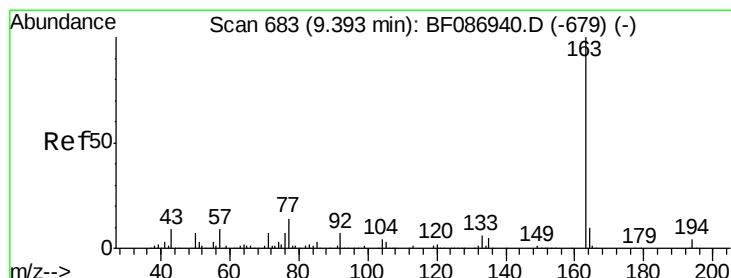
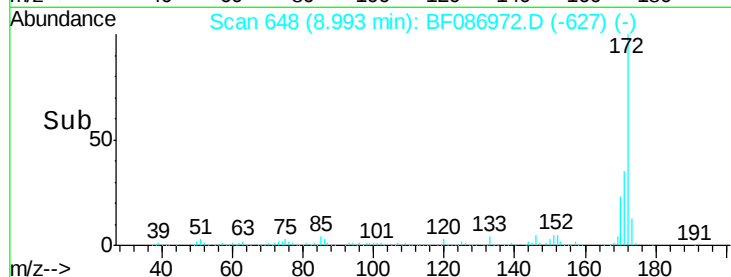
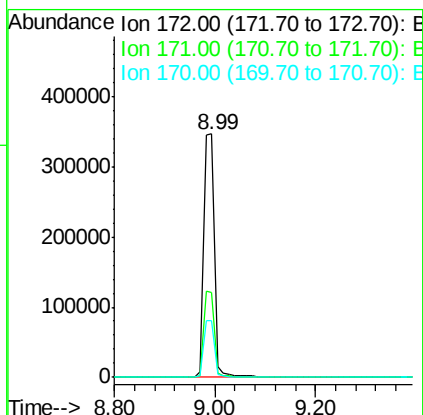
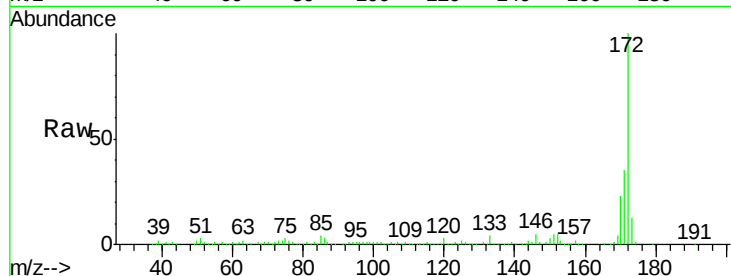




#44
 2-Fluorobiphenyl
 Concen: 36.24 ng
 RT: 8.99 min Scan# 648
 Delta R.T. -0.07 min
 Lab File: BF086972.D
 Acq: 13 May 2016 13:33

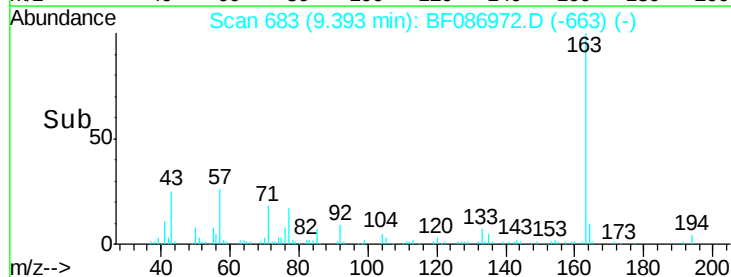
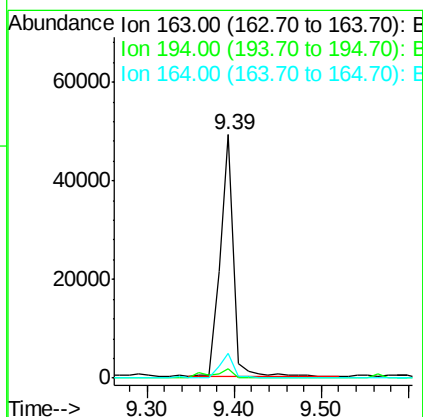
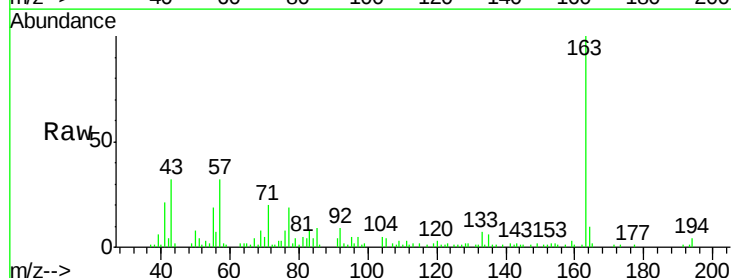
Instrument :
 BNA_F
 ClientSampleId :

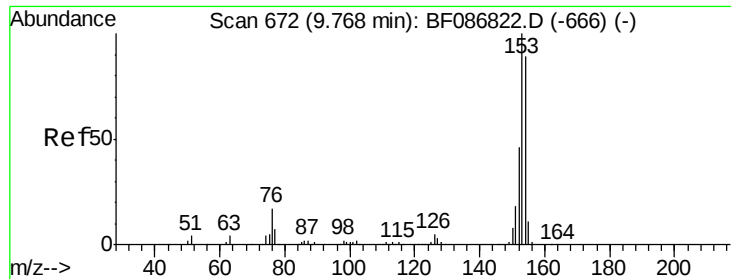
Tot Ion:172 Resp: 510047
 Ion Ratio Lower Upper
 172 100
 171 35.1 29.0 43.6
 170 23.4 19.8 29.8



#49
 Dimethylphthalate
 Concen: 2.93 ng
 RT: 9.39 min Scan# 683
 Delta R.T. -0.08 min
 Lab File: BF086972.D
 Acq: 13 May 2016 13:33

Tgt Ion:163 Resp: 52807
 Ion Ratio Lower Upper
 163 100
 194 3.7 2.6 4.0
 164 10.4 8.2 12.4





#51

Acenaphthene

Concen: 3.47 ng

RT: 9.69 min Scan# 709

Delta R.T. -0.08 min

Lab File: BF086972.D

Acq: 13 May 2016 13:33

Instrument :

BNA_F

ClientSampleId :

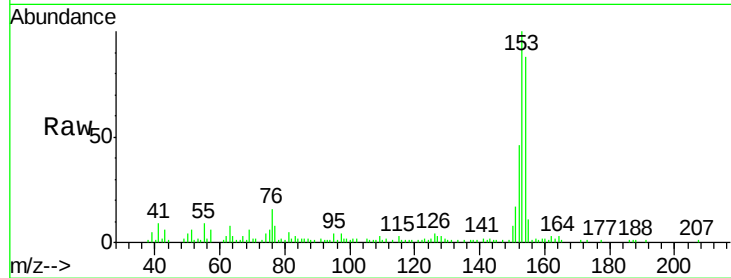
Tot Ion:154 Resp: 46804

Ion Ratio Lower Upper

154 100

153 113.1 89.8 134.6

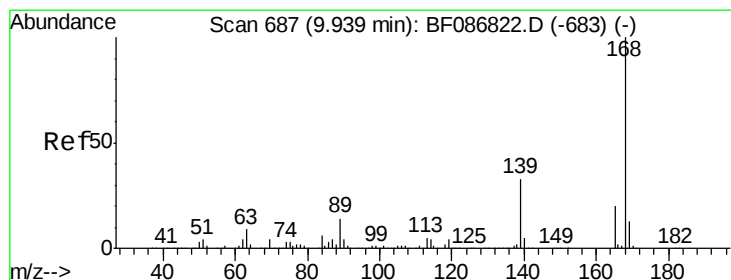
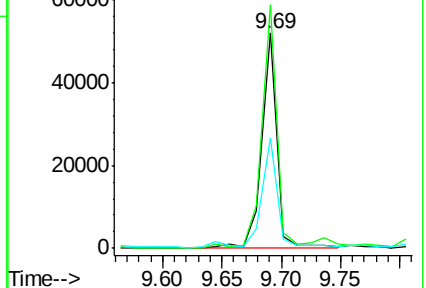
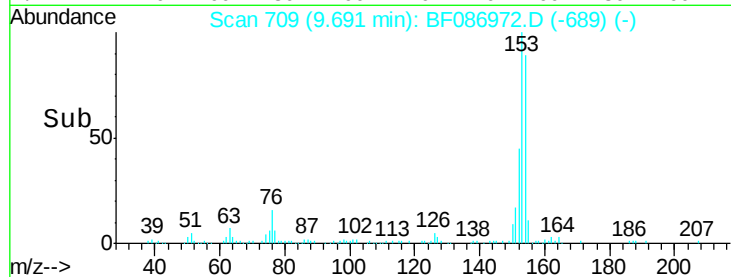
152 51.6 43.4 65.0



Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E



#54

Dibenzofuran

Concen: 2.24 ng

RT: 9.86 min Scan# 724

Delta R.T. -0.08 min

Lab File: BF086972.D

Acq: 13 May 2016 13:33

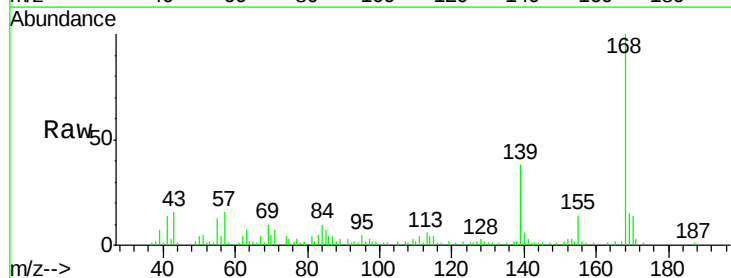
Tgt Ion:168 Resp: 38858

Ion Ratio Lower Upper

168 100

139 38.5 31.4 47.0

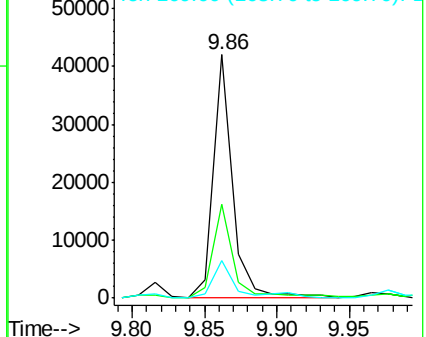
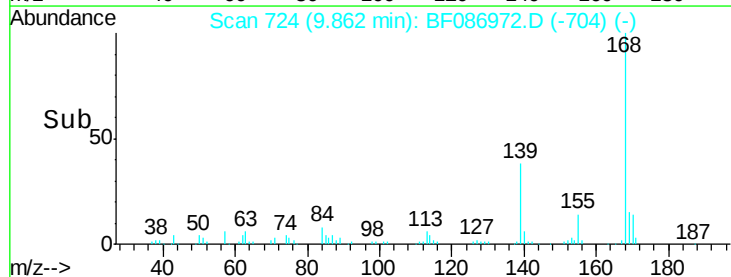
169 15.4 10.7 16.1

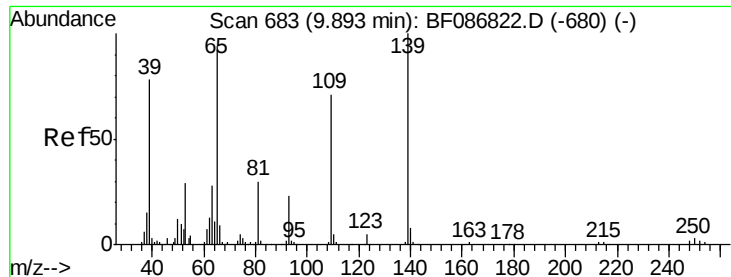


Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 169.00 (168.70 to 169.70): E





#55

4-Nitrophenol

Concen: 4.80 ng

RT: 9.80 min Scan# 719

Delta R.T. -0.09 min

Lab File: BF086972.D

Acq: 13 May 2016 13:33

Instrument :

BNA_F

ClientSampled :

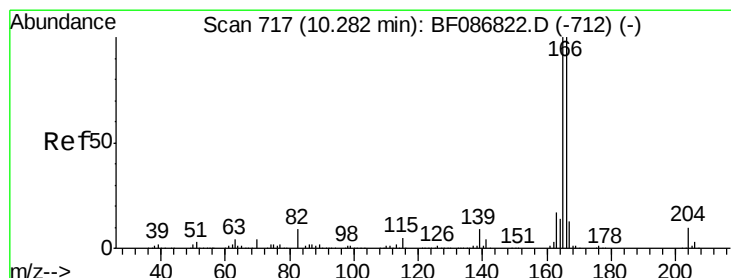
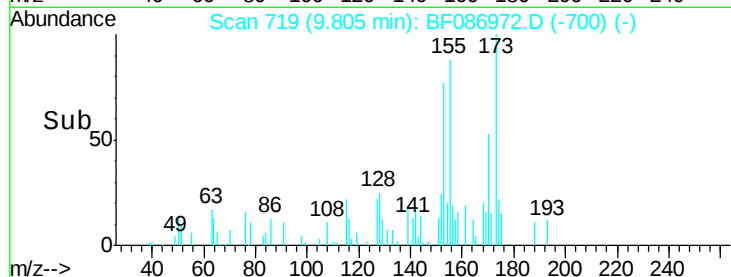
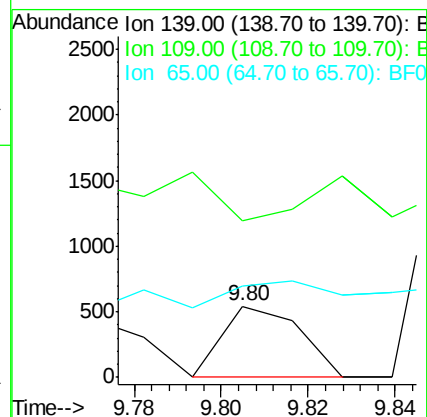
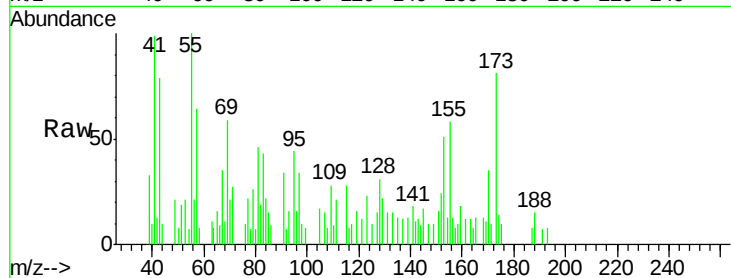
Tot Ion:139 Resp: 670

Ion Ratio Lower Upper

139 100

109 219.3 36.9 76.9#

65 127.8 64.0 104.0#



#57

Fluorene

Concen: 3.45 ng

RT: 10.20 min Scan# 754

Delta R.T. -0.08 min

Lab File: BF086972.D

Acq: 13 May 2016 13:33

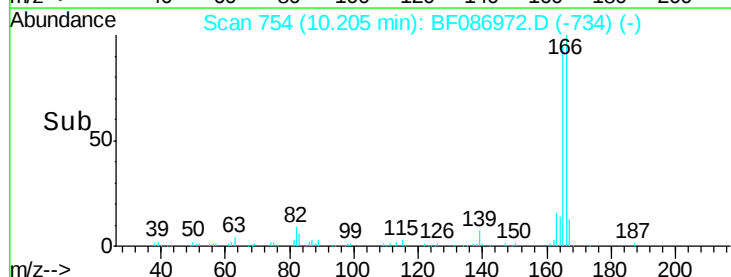
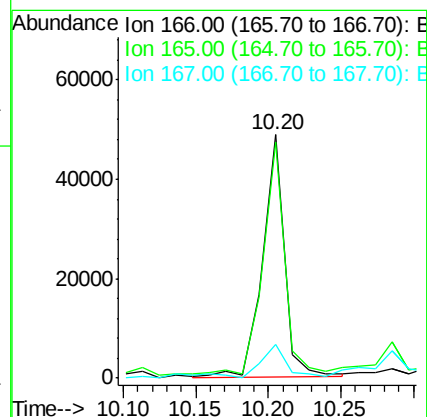
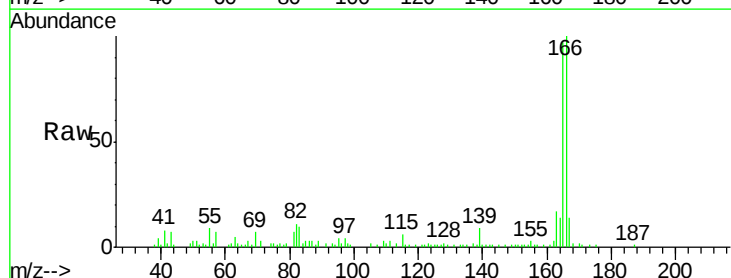
Tgt Ion:166 Resp: 50964

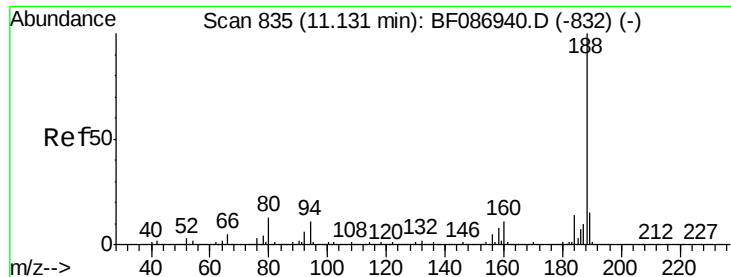
Ion Ratio Lower Upper

166 100

165 96.9 79.0 118.6

167 14.1 10.6 15.8

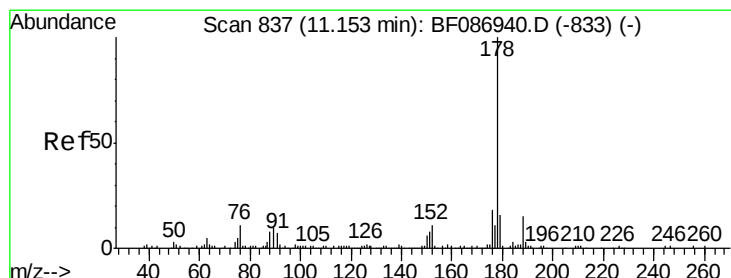
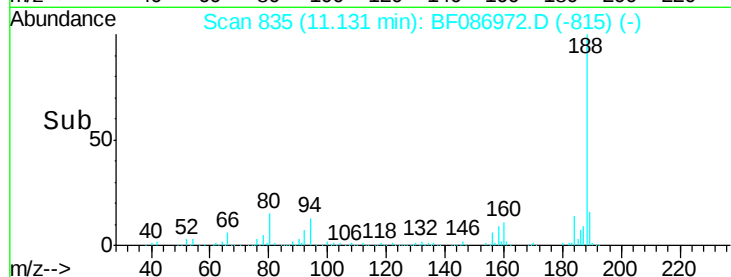
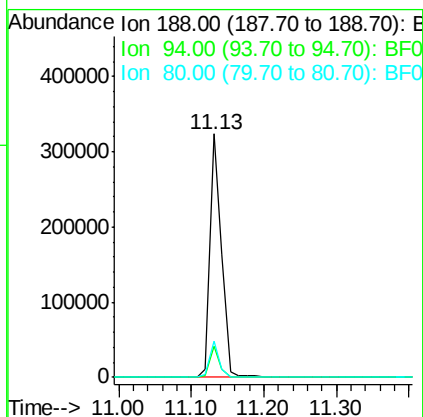
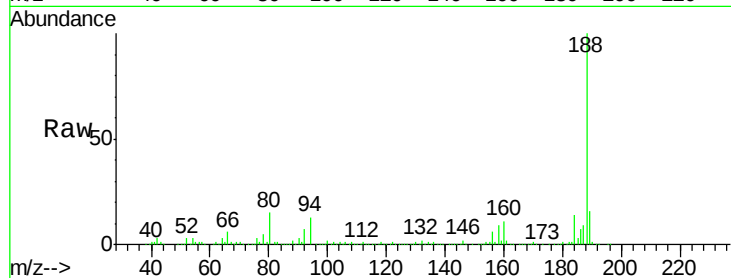




#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 11.13 min Scan# 835
Delta R.T. -0.08 min
Lab File: BF086972.D
Acq: 13 May 2016 13:33

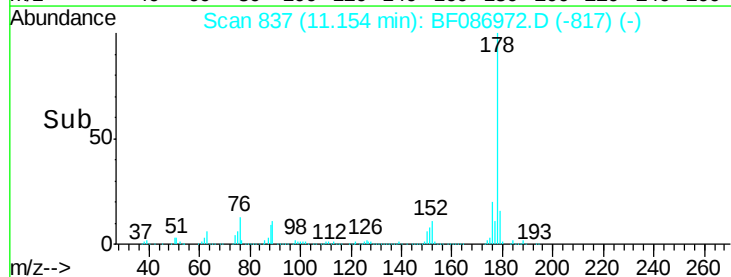
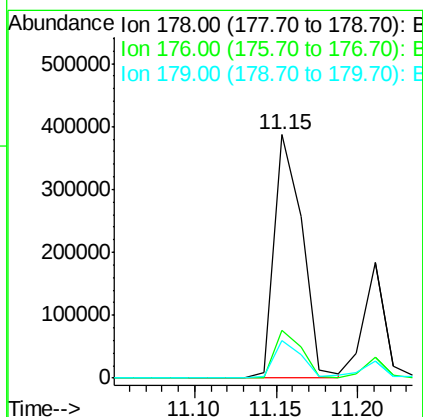
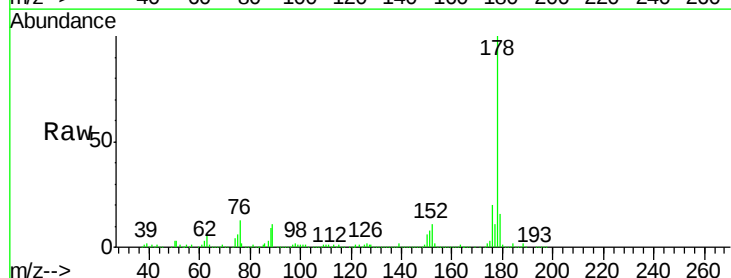
Instrument :
BNA_F
ClientSampleId :

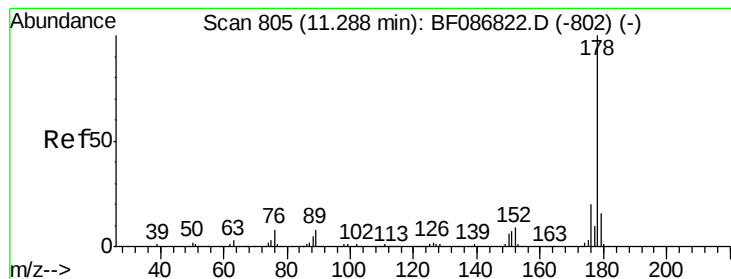
Tot Ion:188 Resp: 355893
Ion Ratio Lower Upper
188 100
94 12.8 6.8 10.2#
80 14.9 7.1 10.7#



#70
Phenanthrene
Concen: 24.29 ng
RT: 11.15 min Scan# 837
Delta R.T. -0.08 min
Lab File: BF086972.D
Acq: 13 May 2016 13:33

Tgt Ion:178 Resp: 461264
Ion Ratio Lower Upper
178 100
176 19.6 16.0 24.0
179 15.7 12.6 18.8





#71

Anthracene

Concen: 9.18 ng

RT: 11.21 min Scan# 842

Delta R.T. -0.08 min

Lab File: BF086972.D

Acq: 13 May 2016 13:33

Instrument :

BNA_F

ClientSampleId :

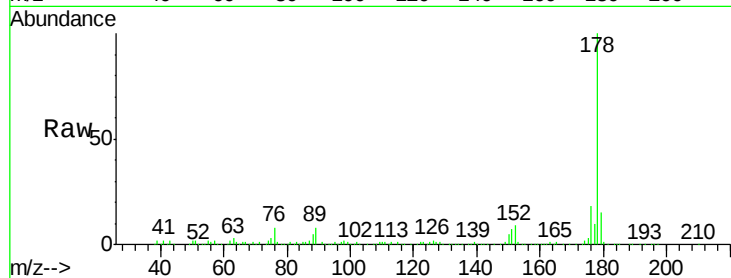
Tot Ion:178 Resp: 178234

Ion Ratio Lower Upper

178 100

176 18.2 15.6 23.4

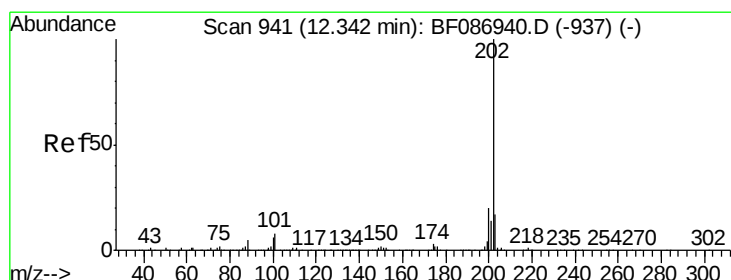
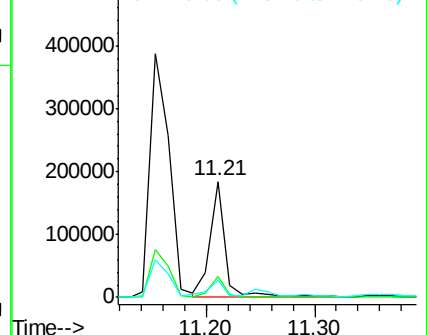
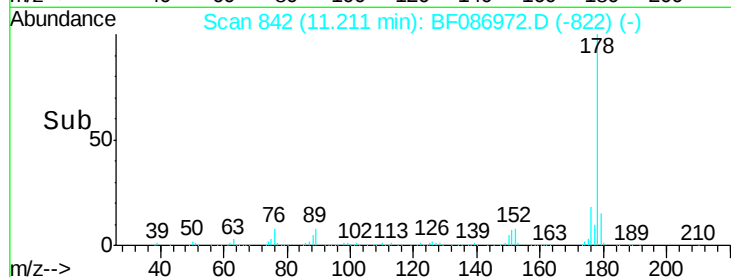
179 15.1 12.7 19.1



Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#74

Fluoranthene

Concen: 40.38 ng

RT: 12.34 min Scan# 941

Delta R.T. -0.08 min

Lab File: BF086972.D

Acq: 13 May 2016 13:33

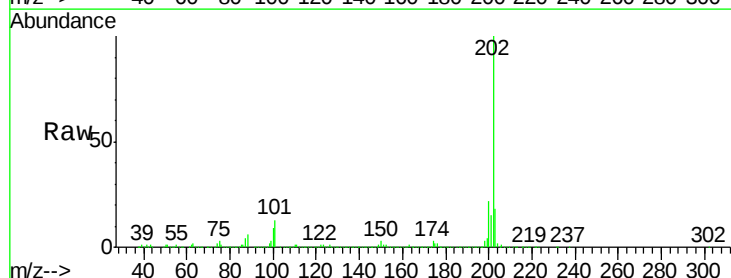
Tgt Ion:202 Resp: 788737

Ion Ratio Lower Upper

202 100

101 12.5 0.0 35.4

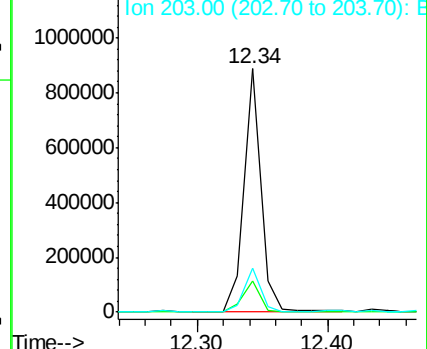
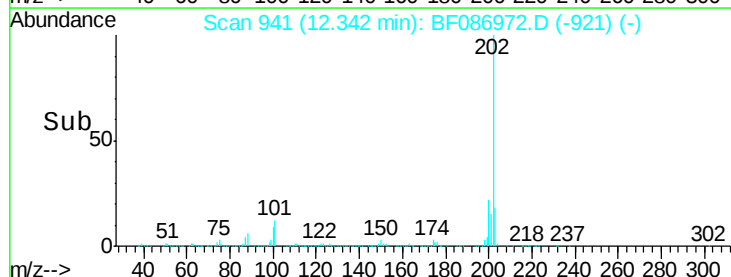
203 17.9 0.0 38.1

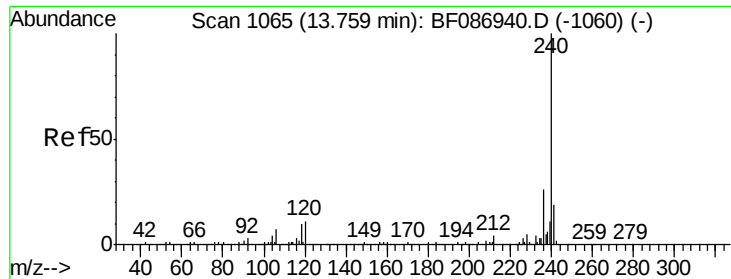


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E





#75

Chrysene-d12

Concen: 20.00 ng

RT: 13.76 min Scan# 1065

Delta R.T. -0.08 min

Lab File: BF086972.D

Acq: 13 May 2016 13:33

Instrument :

BNA_F

ClientSampleId :

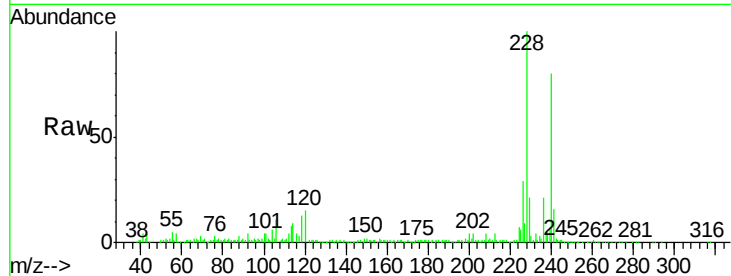
Tot Ion:240 Resp: 320487

Ion Ratio Lower Upper

240 100

120 18.2 11.2 16.8#

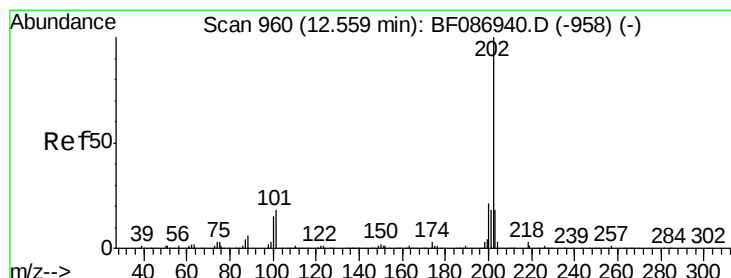
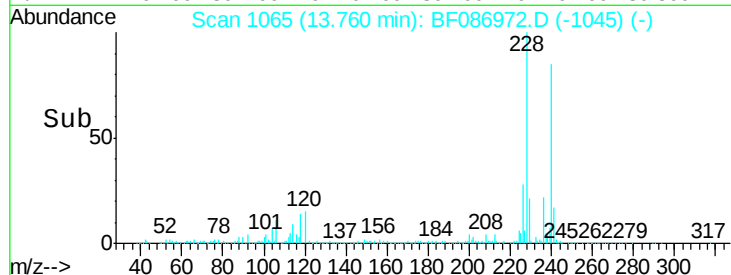
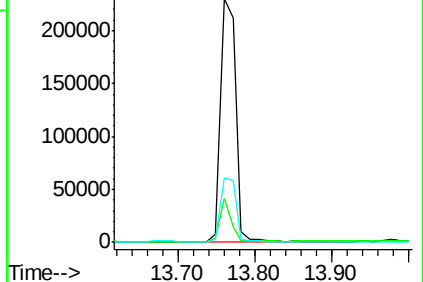
236 26.4 21.2 31.8



Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E



#77

Pyrene

Concen: 33.13 ng

RT: 12.57 min Scan# 961

Delta R.T. -0.07 min

Lab File: BF086972.D

Acq: 13 May 2016 13:33

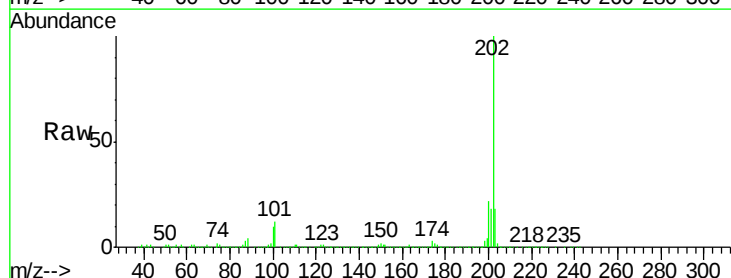
Tgt Ion:202 Resp: 812794

Ion Ratio Lower Upper

202 100

200 21.6 17.7 26.5

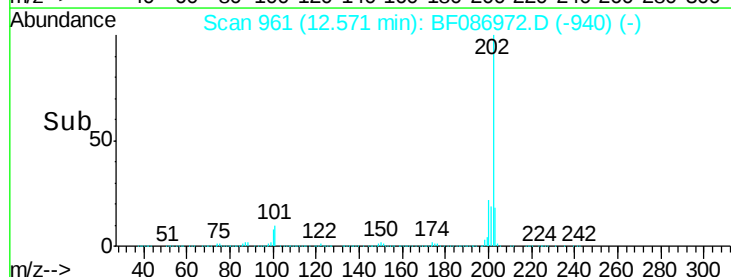
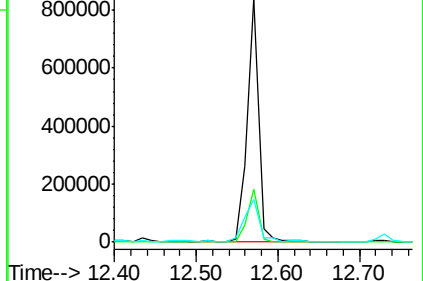
203 17.6 14.2 21.4

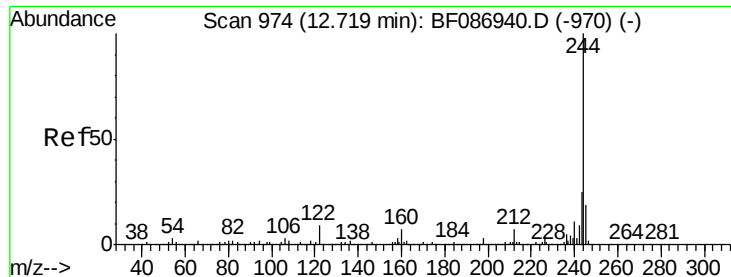


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#78

Terphenyl-d14

Concen: 23.76 ng

RT: 12.72 min Scan# 974

Delta R.T. -0.08 min

Lab File: BF086972.D

Acq: 13 May 2016 13:33

Instrument :

BNA_F

ClientSampled :

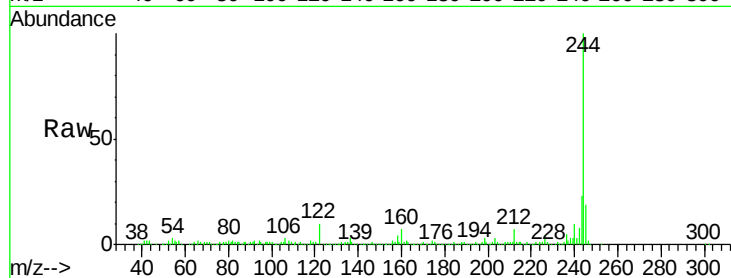
Tot Ion:244 Resp: 358883

Ion Ratio Lower Upper

244 100

212 7.2 6.2 9.2

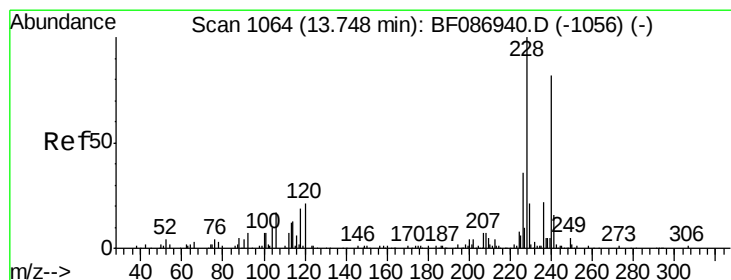
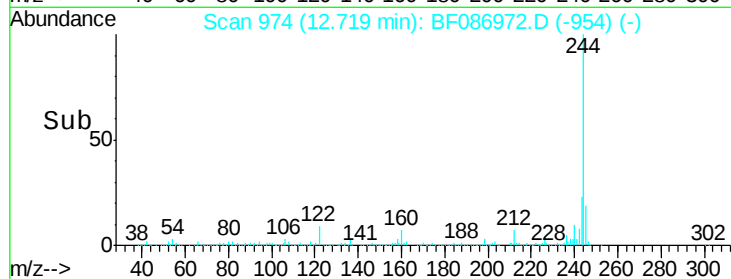
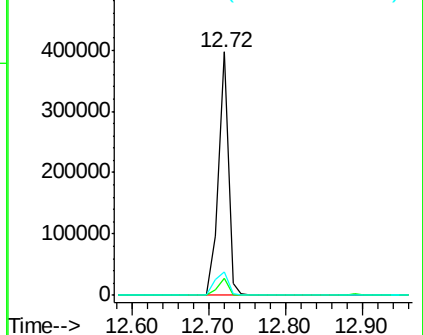
122 9.5 12.0 18.0#



Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E



#80

Benzo(a)anthracene

Concen: 22.01 ng

RT: 13.76 min Scan# 1065

Delta R.T. -0.07 min

Lab File: BF086972.D

Acq: 13 May 2016 13:33

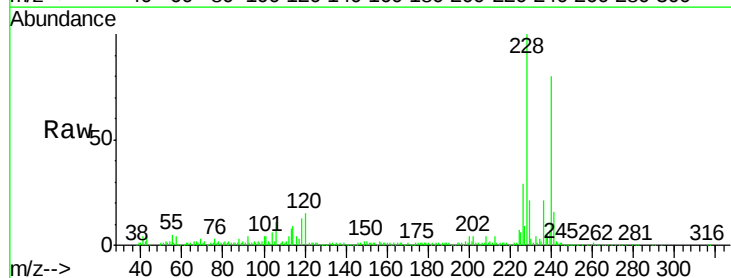
Tgt Ion:228 Resp: 395944

Ion Ratio Lower Upper

228 100

226 29.4 22.5 33.7

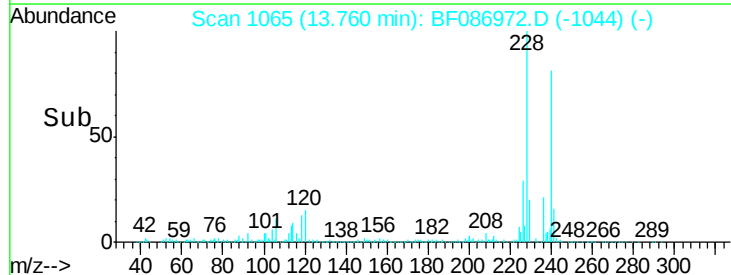
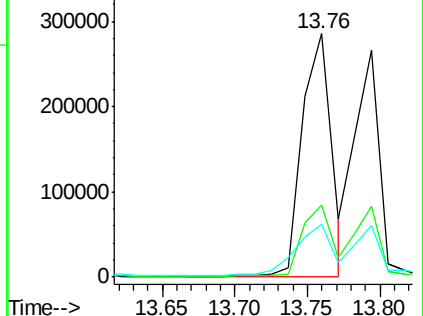
229 21.5 16.6 25.0

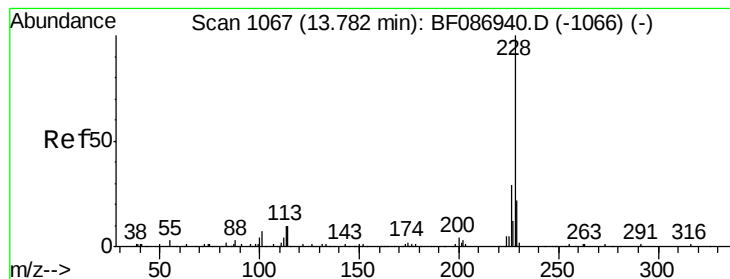


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#82

Chrysene

Concen: 21.63 ng

RT: 13.76 min Scan# 1065

Delta R.T. -0.10 min

Lab File: BF086972.D

Acq: 13 May 2016 13:33

Instrument :

BNA_F

ClientSampleId :

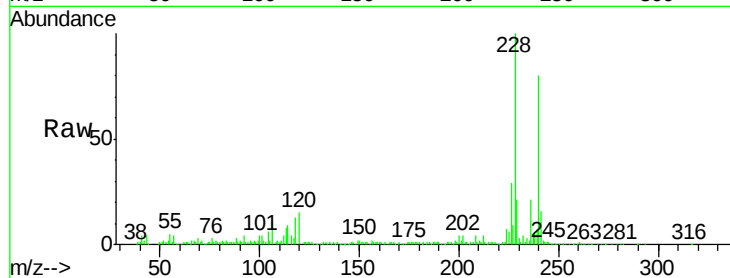
Tot Ion:228 Resp: 395944

Ion Ratio Lower Upper

228 100

226 29.4 24.4 36.6

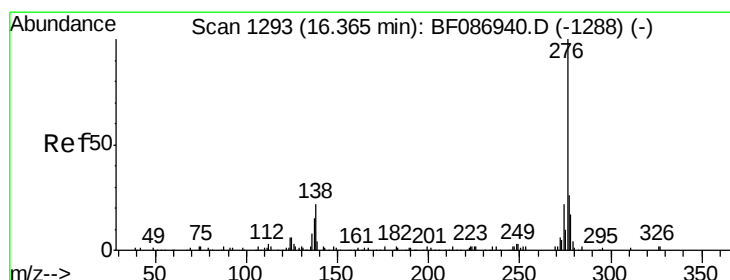
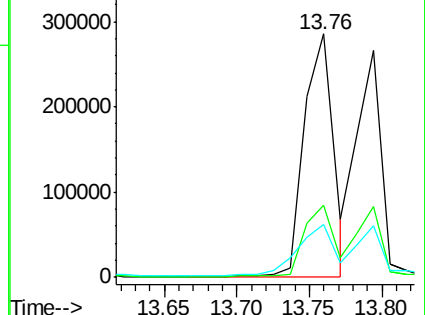
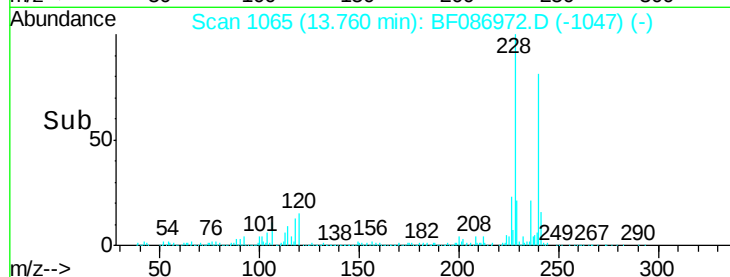
229 21.5 15.8 23.8



Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#85

Indeno(1,2,3-cd)pyrene

Concen: 8.66 ng

RT: 16.38 min Scan# 1294

Delta R.T. -0.12 min

Lab File: BF086972.D

Acq: 13 May 2016 13:33

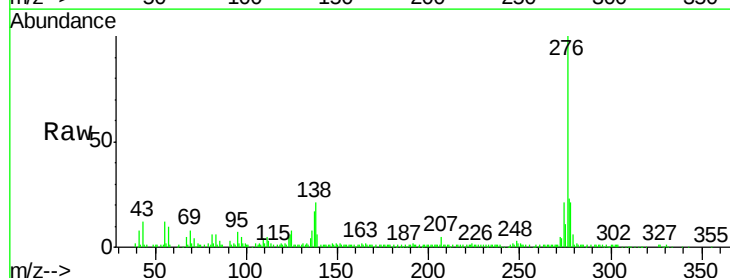
Tgt Ion:276 Resp: 131822

Ion Ratio Lower Upper

276 100

138 19.2 25.6 38.4#

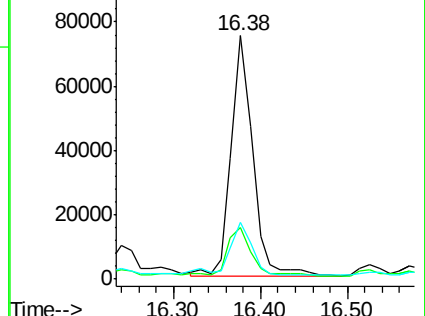
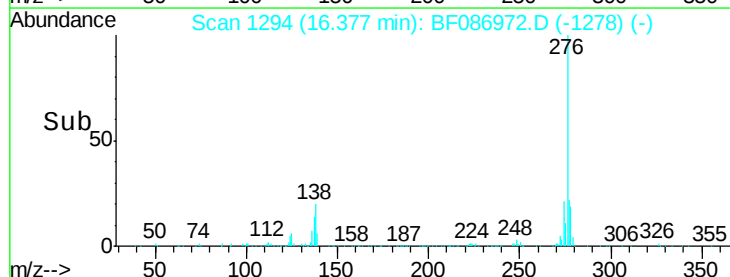
277 24.0 20.5 30.7

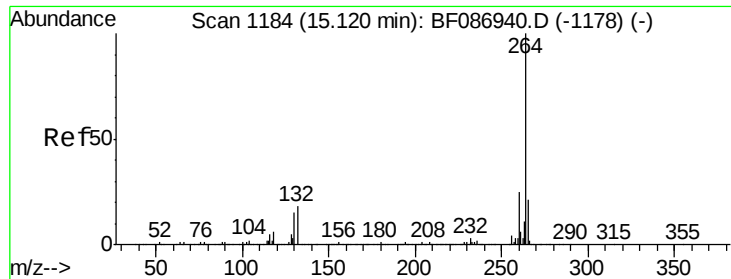


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

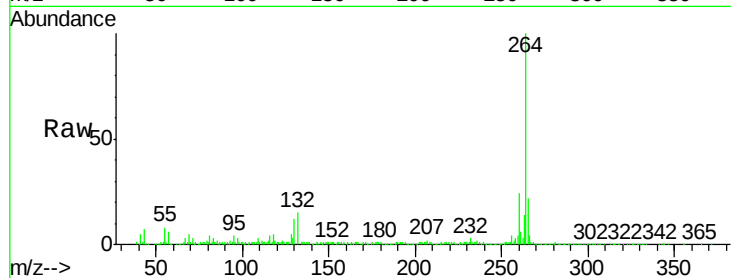




#86
Pervlene-d12
Concen: 20.00 ng
RT: 15.13 min Scan# 1185
Delta R.T. -0.08 min
Lab File: BF086972.D
Acq: 13 May 2016 13:33

Instrument :
BNA_F
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
264	100		
260	24.2	19.5	29.3
265	22.5	17.3	25.9

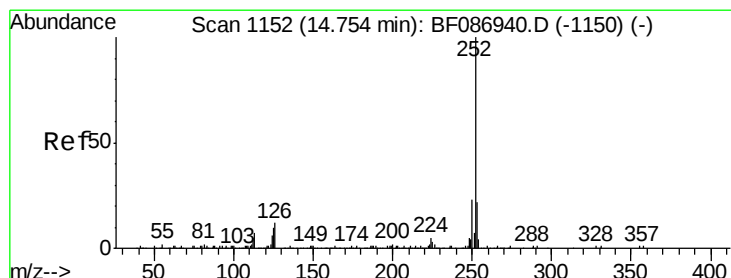
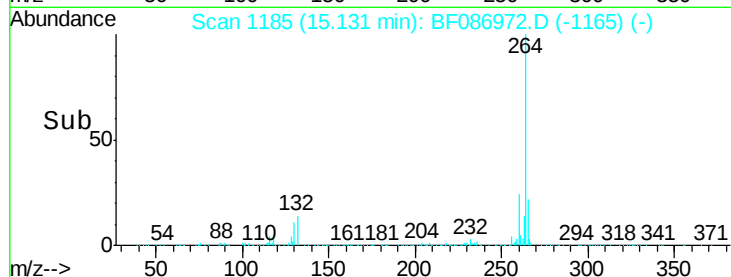
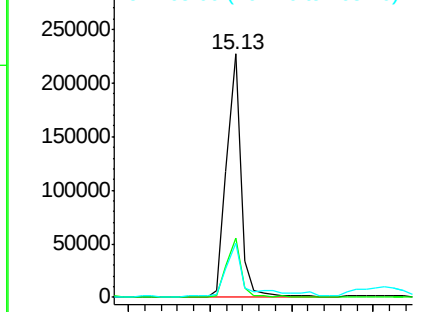


Abundance

Ion 264.00 (263.70 to 264.70): E

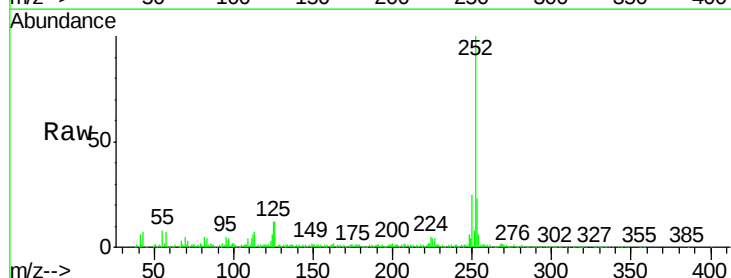
Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E



#87
Benzo(b)fluoranthene
Concen: 26.64 ng
RT: 14.77 min Scan# 1153
Delta R.T. -0.07 min
Lab File: BF086972.D
Acq: 13 May 2016 13:33

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.7	17.8	26.6
125	12.0	11.4	17.0

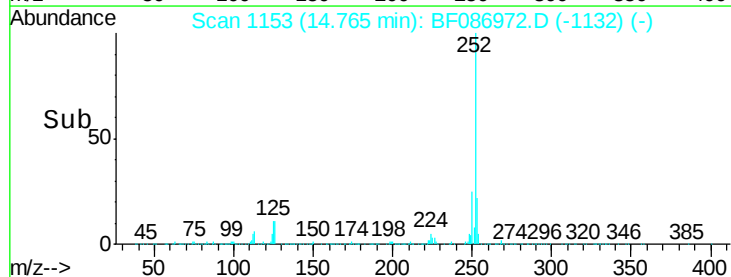
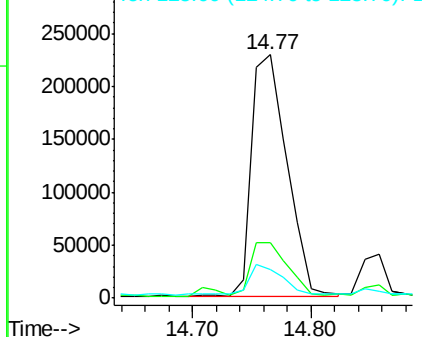


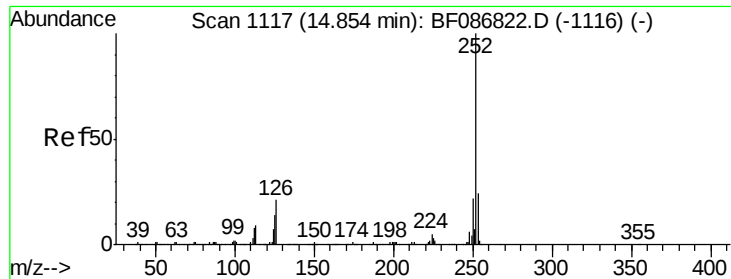
Abundance

Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#88

Benzo(k)fluoranthene

Concen: 32.53 ng

RT: 14.77 min Scan# 1153

Delta R.T. -0.09 min

Lab File: BF086972.D

Acq: 13 May 2016 13:33

Instrument :

BNA_F

ClientSampleId :

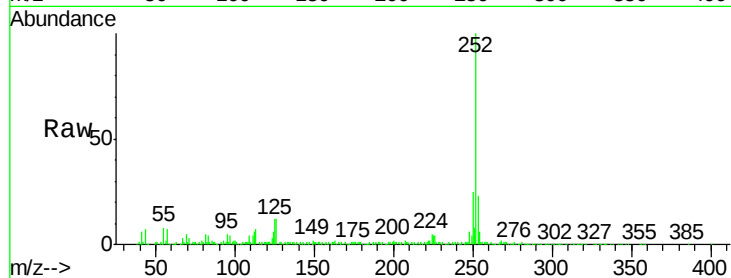
Tot Ion:252 Resp: 476715

Ion Ratio Lower Upper

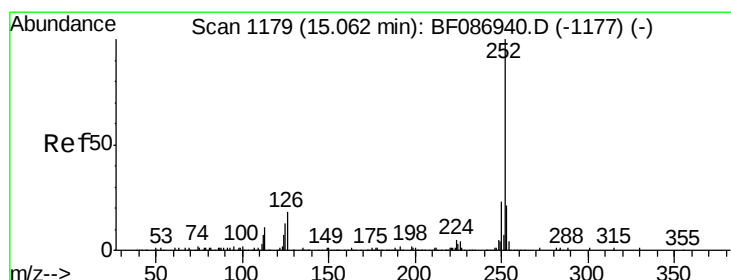
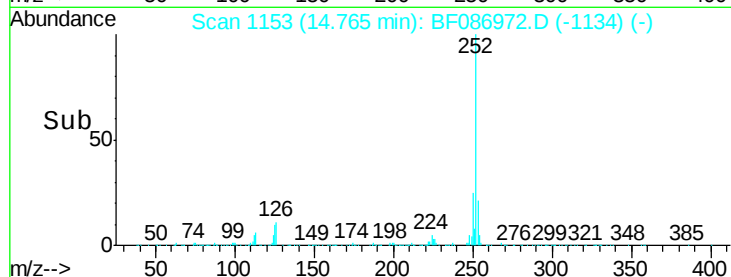
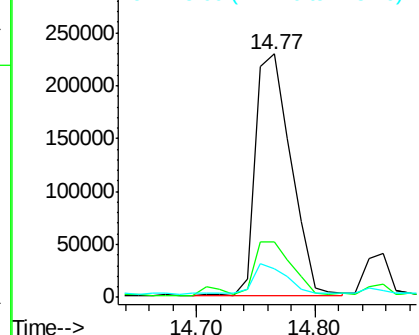
252 100

253 22.7 17.8 26.6

125 12.0 9.1 13.7



Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E



#89

Benzo(a)pyrene

Concen: 16.66 ng

RT: 15.07 min Scan# 1180

Delta R.T. -0.08 min

Lab File: BF086972.D

Acq: 13 May 2016 13:33

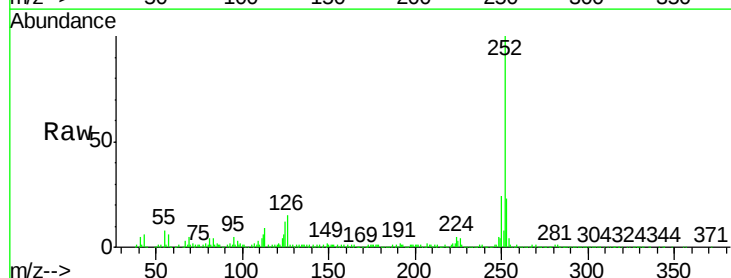
Tgt Ion:252 Resp: 257155

Ion Ratio Lower Upper

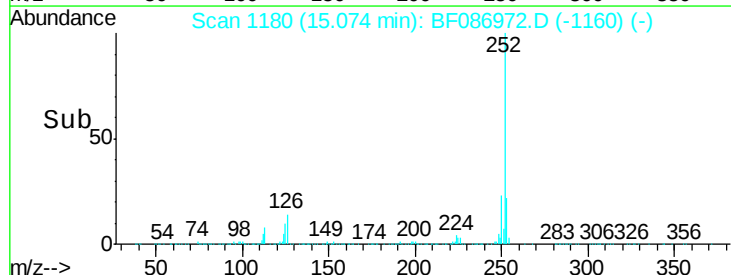
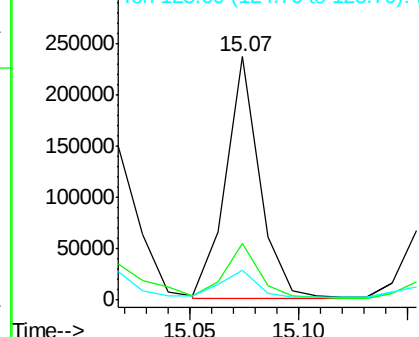
252 100

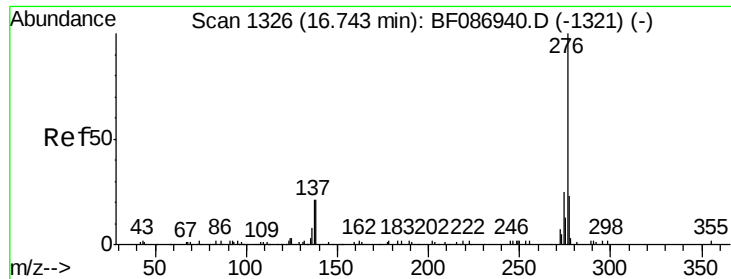
253 23.2 17.2 25.8

125 12.1 9.0 13.6



Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E

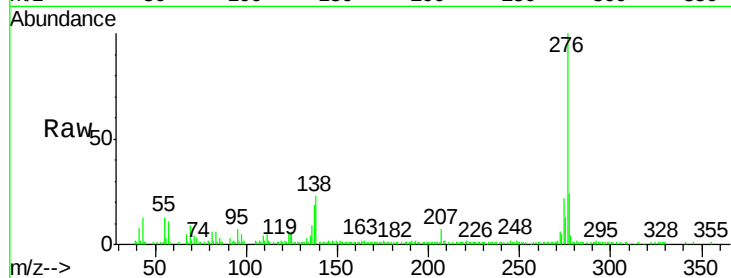




#91
 Benzo(a,h,i)perylene
 Concen: 9.14 ng
 RT: 16.75 min Scan# 1327
 Delta R.T. -0.13 min
 Lab File: BF086972.D
 Acq: 13 May 2016 13:33

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
276	100		
277	23.5	19.6	29.4
138	22.7	23.6	35.4



Abundance

Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

