

Data Path : Z:\HPCHEM1\BNA F\DATA\BF062516\
 Data File : BF088380.D
 Acq On : 25 Jun 2016 16:45
 Operator : UM/SJ
 Sample : H3624-08
 Misc :
 ALS Vial : 30 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SC-STA-1486(0-4)

Quant Time: Jun 26 03:18:22 2016
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF060716.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Jun 22 14:55:14 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.56	152	85063	20.00	ng	-0.05
21) Naphthalene-d8	7.85	136	337787	20.00	ng	-0.05
38) Acenaphthene-d10	9.59	164	141046	20.00	ng	-0.06
63) Phenanthrene-d10	11.06	188	241064	20.00	ng	-0.06
75) Chrysene-d12	13.70	240	151885	20.00	ng	-0.05
86) Perylene-d12	15.05	264	153963	20.00	ng	-0.06

System Monitoring Compounds						
5) 2-Fluorophenol	5.14	112	522780	105.07	ng	-0.03
7) Phenol-d6	6.23	99	658224	109.15	ng	-0.03
23) Nitrobenzene-d5	7.14	82	508422	87.89	ng	-0.03
41) 2,4,6-Tribromophenol	10.39	330	130145	87.39	ng	-0.05
44) 2-Fluorobiphenyl	8.92	172	747968	83.19	ng	-0.05
78) Terphenyl-d14	12.65	244	444942	66.66	ng	-0.05

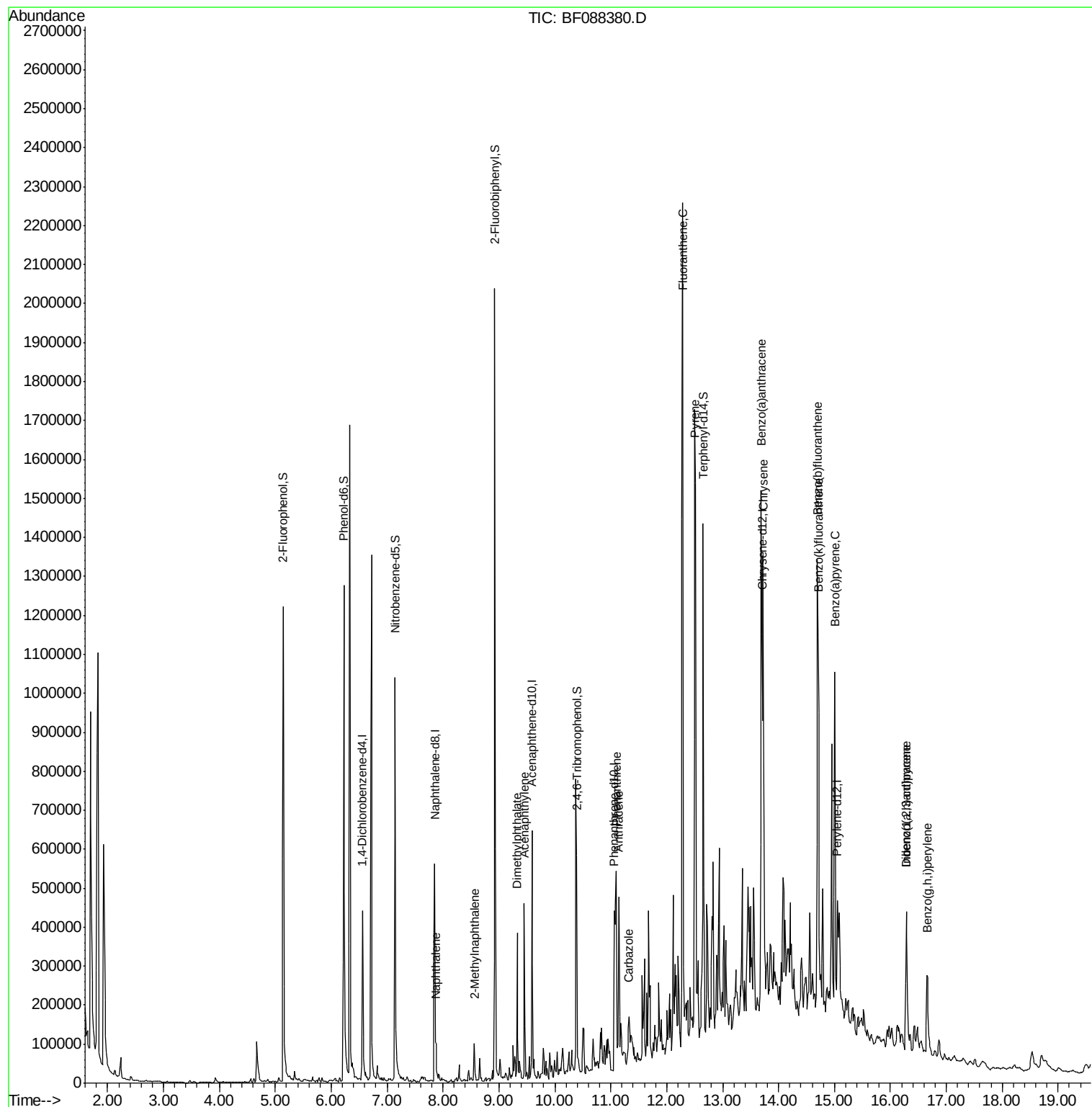
Target Compounds				Qvalue		
31) Naphthalene	7.87	128	53258	3.19	ng	99
37) 2-Methylnaphthalene	8.56	142	31832	2.89	ng	99
48) Acenaphthylene	9.45	152	210715	14.51	ng	99
49) Dimethylphthalate	9.32	163	133658	13.08	ng	99
70) Phenanthrene	11.10	178	279103	22.06	ng	97
71) Anthracene	11.14	178	220859	17.31	ng	98
72) Carbazole	11.31	167	43291	3.63	ng	97
74) Fluoranthene	12.29	202	1139582	85.37	ng	99
77) Pyrene	12.51	202	1045127	92.73	ng	100
80) Benzo(a)anthracene	13.69	228	703952	81.33	ng	92
82) Chrysene	13.73	228	489633m	60.13	ng	
85) Indeno(1,2,3-cd)pyrene	16.29	276	220573	29.16	ng	# 100
87) Benzo(b)fluoranthene	14.70	252	642711m	59.89	ng	
88) Benzo(k)fluoranthene	14.71	252	284082m	35.09	ng	
89) Benzo(a)pyrene	15.01	252	413527	47.63	ng	96
90) Dibenzo(a,h)anthracene	16.29	278	60196m	7.47	ng	
91) Benzo(a,h,i)perylene	16.66	276	178376	21.50	ng	97

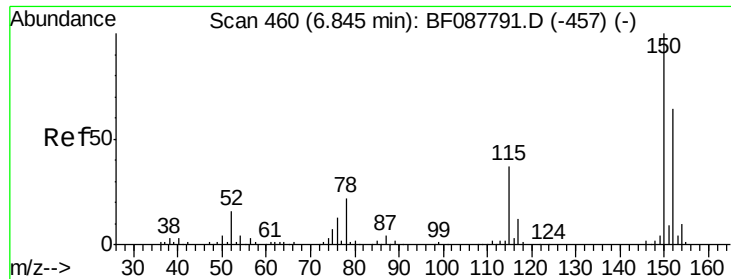
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.56 min Scan# 435

Delta R.T. -0.05 min

Lab File: BF088380.D

Acq: 25 Jun 2016 16:45

Instrument :

BNA_F

ClientSampleId :

SC-STA-1486(0-4)

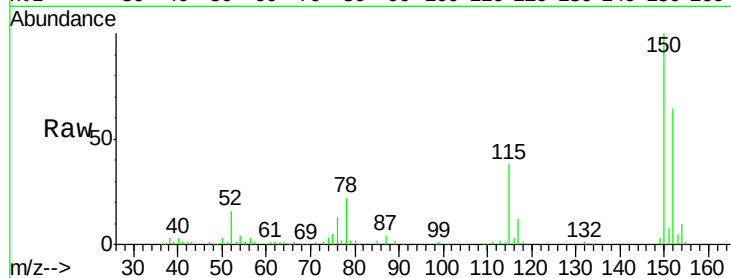
Tot Ion:152 Resp: 85063

Ion Ratio Lower Upper

152 100

150 156.0 123.8 185.6

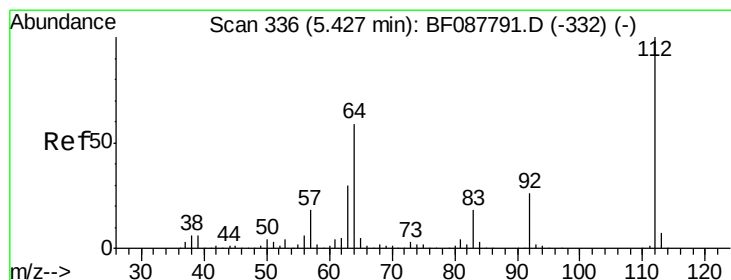
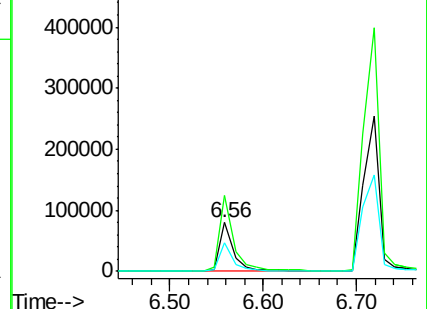
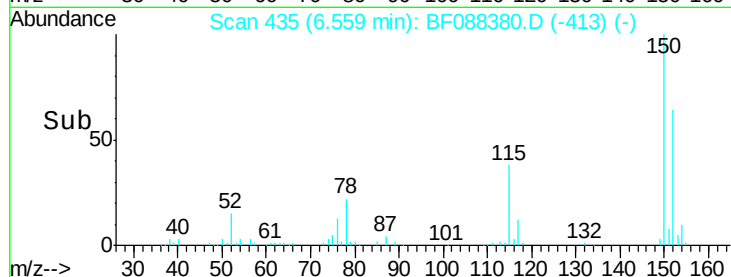
115 59.7 39.6 59.4#



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: 105.07 ng

RT: 5.14 min Scan# 311

Delta R.T. -0.03 min

Lab File: BF088380.D

Acq: 25 Jun 2016 16:45

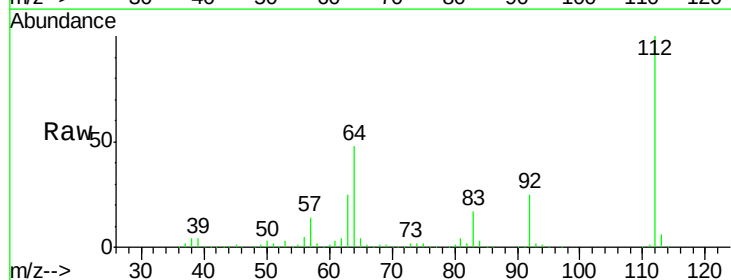
Tgt Ion:112 Resp: 522780

Ion Ratio Lower Upper

112 100

64 48.2 42.2 63.2

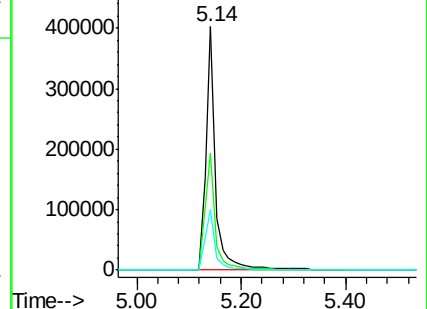
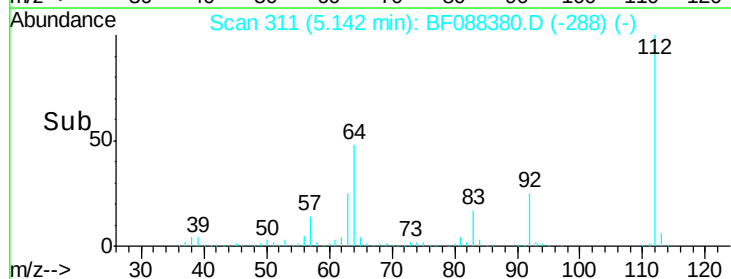
63 25.0 21.8 32.8

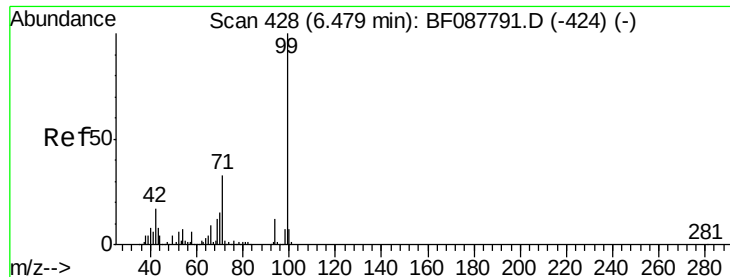


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 109.15 ng

RT: 6.23 min Scan# 406

Delta R.T. -0.03 min

Lab File: BF088380.D

Acq: 25 Jun 2016 16:45

Instrument :

BNA_F

ClientSampleId :

SC-STA-1486(0-4)

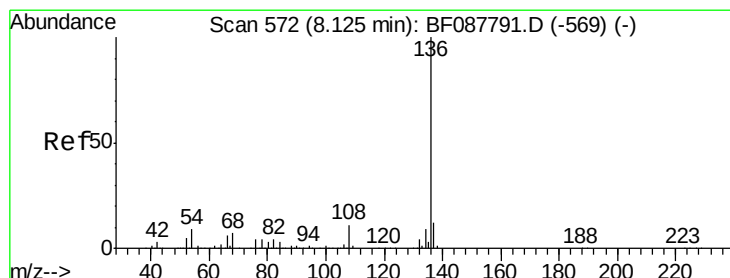
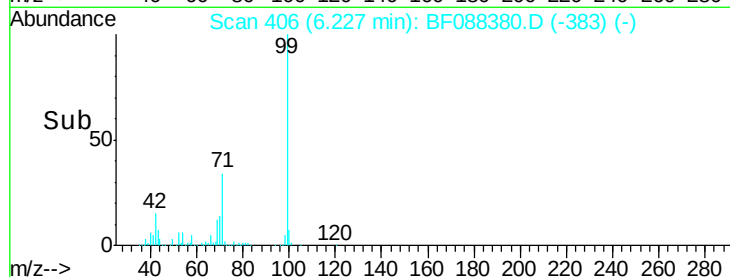
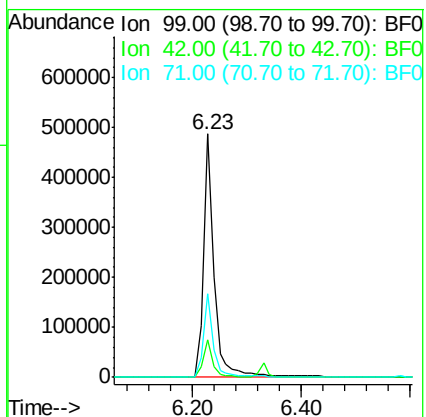
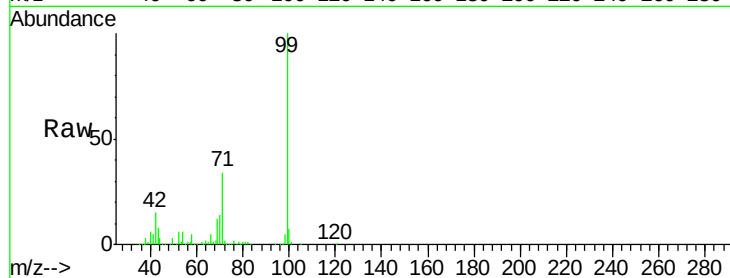
Tot Ion: 99 Resp: 658224

Ion Ratio Lower Upper

99 100

42 15.3 12.2 18.2

71 34.4 23.4 35.0



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 7.85 min Scan# 548

Delta R.T. -0.05 min

Lab File: BF088380.D

Acq: 25 Jun 2016 16:45

Tgt Ion: 136 Resp: 337787

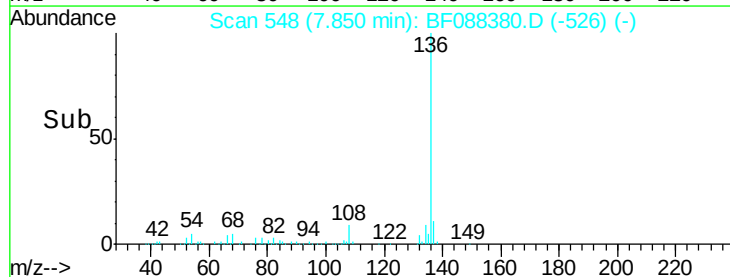
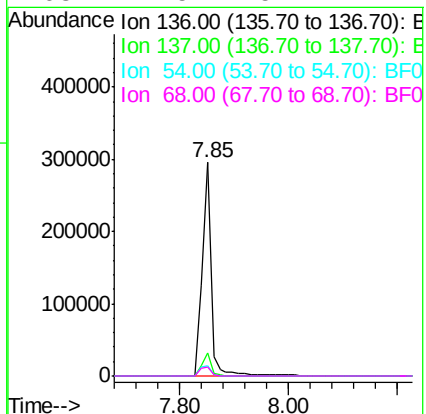
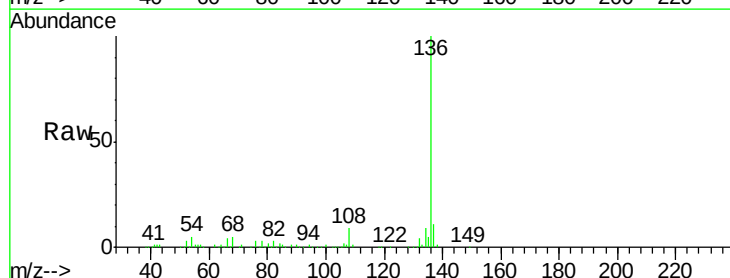
Ion Ratio Lower Upper

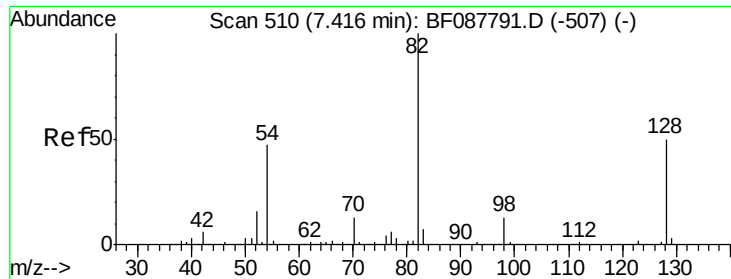
136 100

137 10.6 9.1 13.7

54 5.0 6.6 10.0#

68 4.5 5.1 7.7#

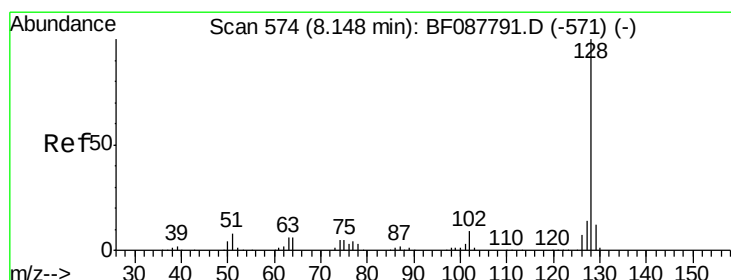
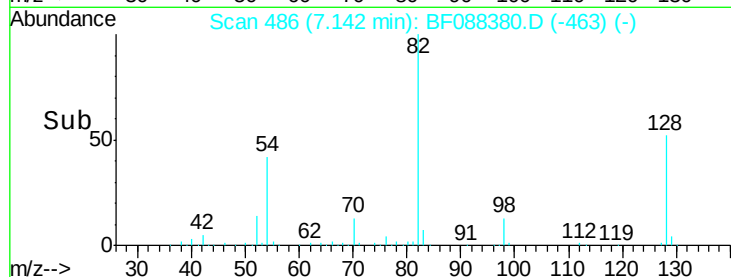
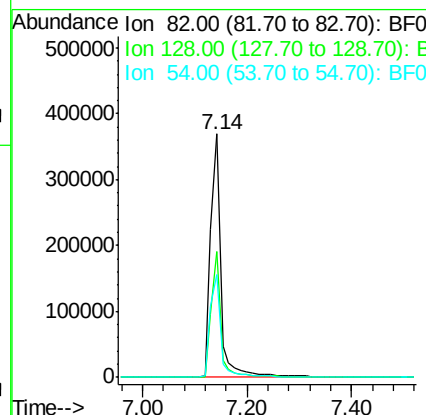
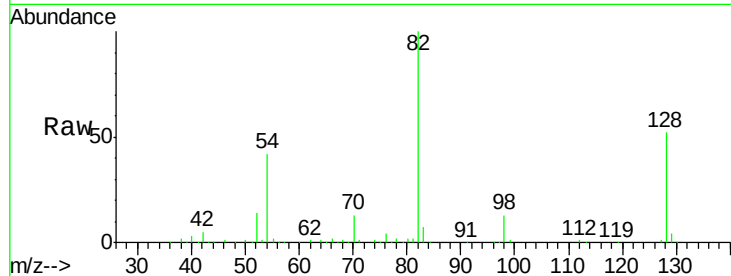




#23
 Nitrobenzene-d5
 Concen: 87.89 ng
 RT: 7.14 min Scan# 486
 Delta R.T. -0.03 min
 Lab File: BF088380.D
 Acq: 25 Jun 2016 16:45

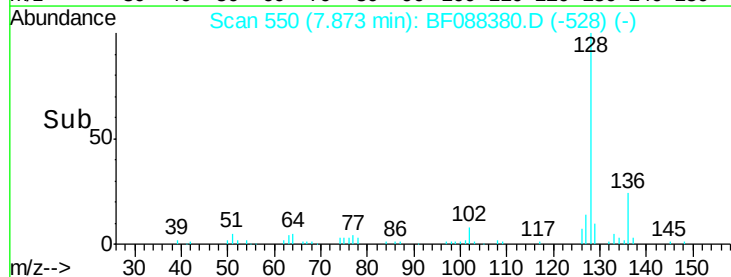
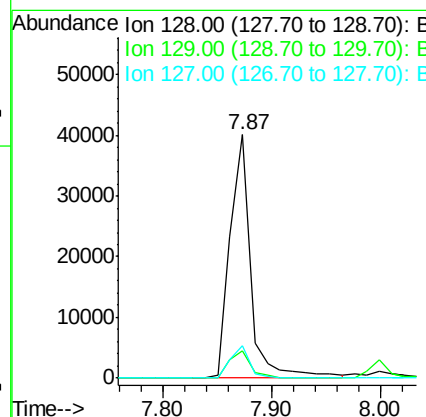
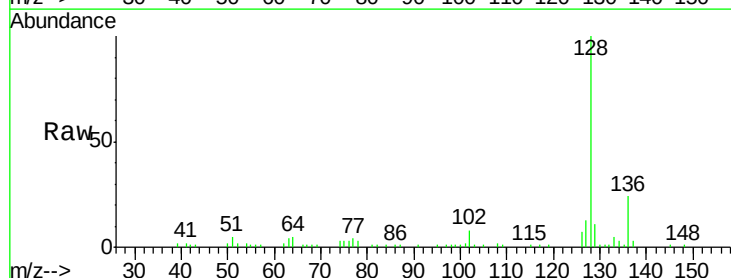
Instrument :
 BNA_F
 ClientSampleId :
 SC-STA-1486(0-4)

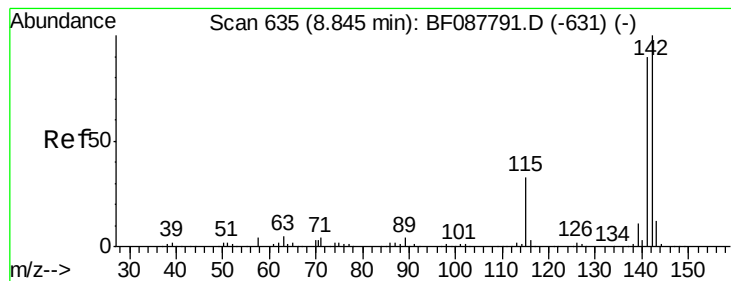
Tot Ion	82	Resp	508422
Ion Ratio	100	Lower	Upper
128	51.9	35.9	53.9
54	42.1	40.9	61.3



#31
 Naphthalene
 Concen: 3.19 ng
 RT: 7.87 min Scan# 550
 Delta R.T. -0.05 min
 Lab File: BF088380.D
 Acq: 25 Jun 2016 16:45

Tgt Ion	128	Resp	53258
Ion Ratio <td>100</td> <td>Lower</td> <td>Upper</td>	100	Lower	Upper
129	11.4	9.4	14.2
127	13.5	10.9	16.3





#37

2-Methylnaphthalene

Concen: 2.89 ng

RT: 8.56 min Scan# 610

Delta R.T. -0.05 min

Lab File: BF088380.D

Acq: 25 Jun 2016 16:45

Instrument :

BNA_F

ClientSampleId :

SC-STA-1486(0-4)

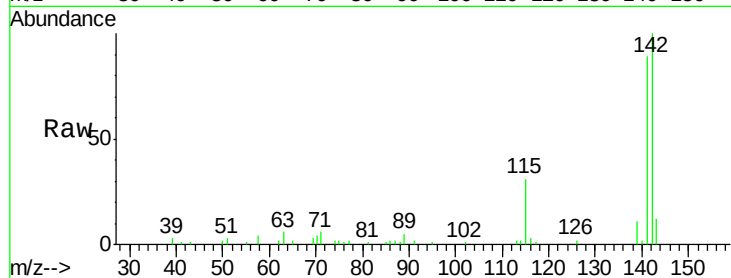
Tot Ion:142 Resp: 31832

Ion Ratio Lower Upper

142 100

141 88.9 71.0 106.6

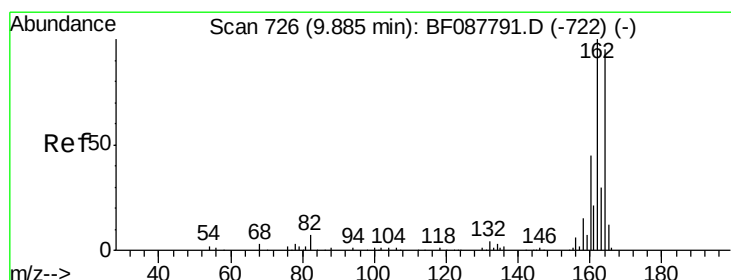
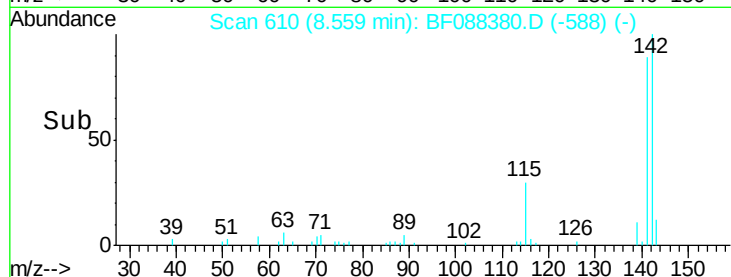
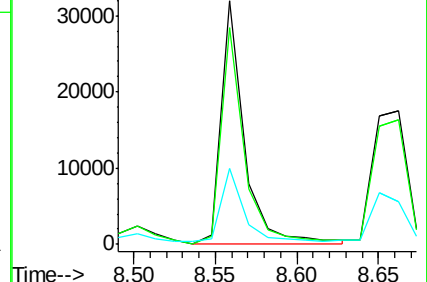
115 31.0 22.6 33.8



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 115.00 (114.70 to 115.70): E



#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.59 min Scan# 700

Delta R.T. -0.06 min

Lab File: BF088380.D

Acq: 25 Jun 2016 16:45

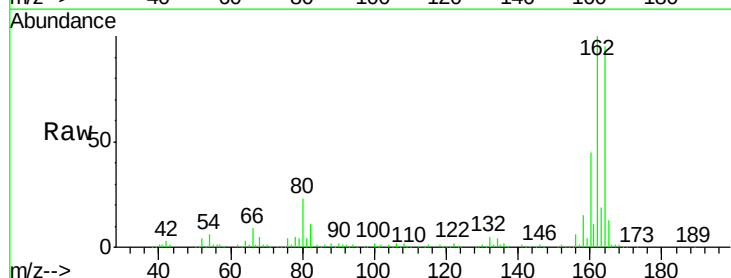
Tgt Ion:164 Resp: 141046

Ion Ratio Lower Upper

164 100

162 105.6 85.4 128.2

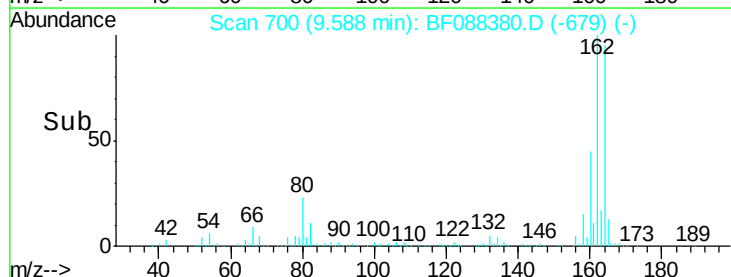
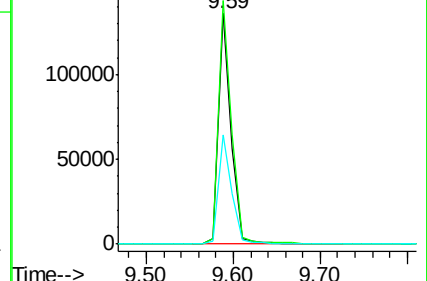
160 47.2 39.5 59.3

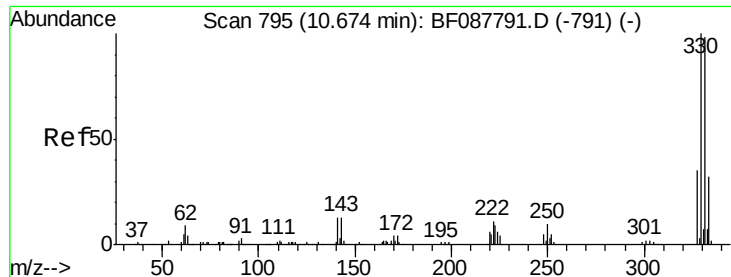


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E

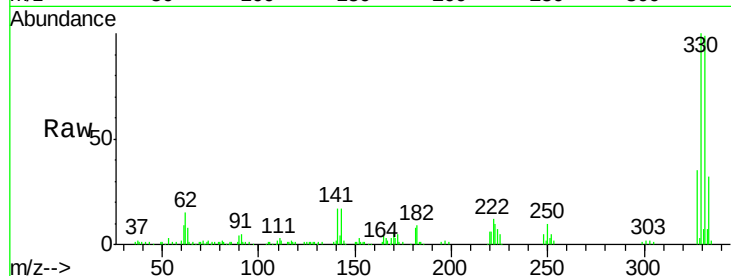




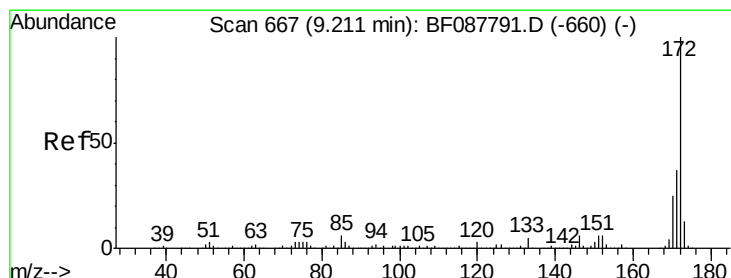
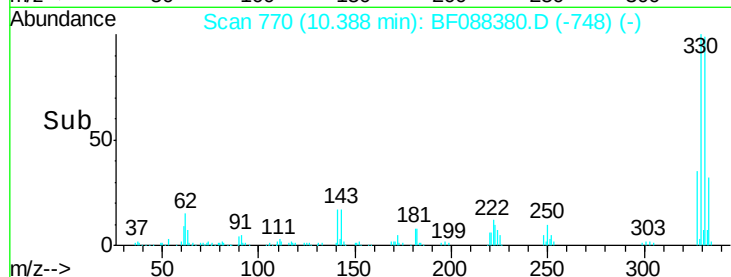
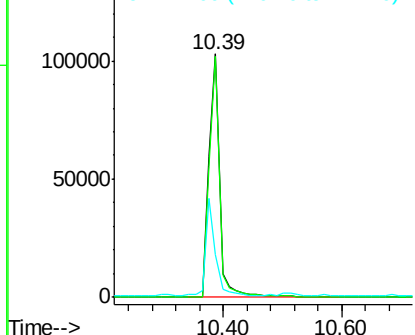
#41
 2,4,6-Tribromophenol
 Concen: 87.39 ng
 RT: 10.39 min Scan# 770
 Delta R.T. -0.05 min
 Lab File: BF088380.D
 Acq: 25 Jun 2016 16:45

Instrument :
 BNA_F
 ClientSampleId :
 SC-STA-1486(0-4)

Tot Ion	Ratio	Lower	Upper
330	100		
332	96.6	0.0	0.0#
141	37.4	0.0	0.0#

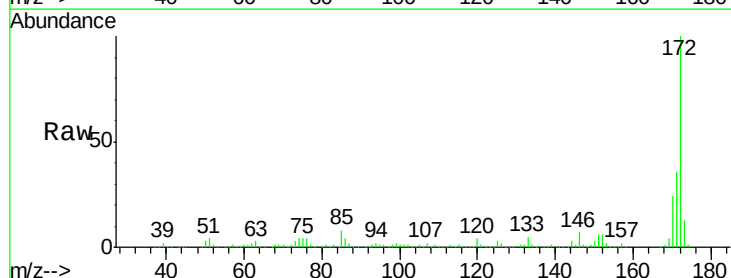


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

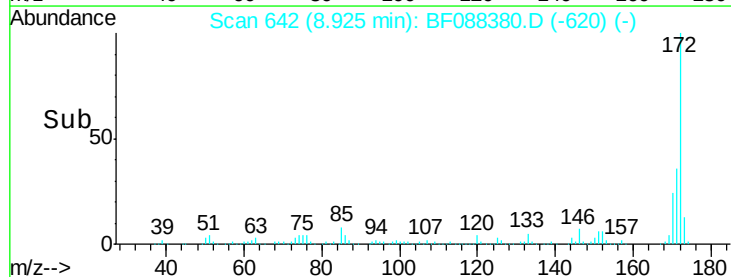
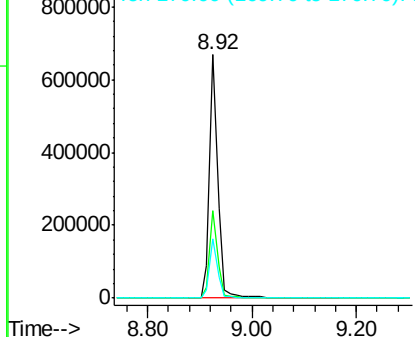


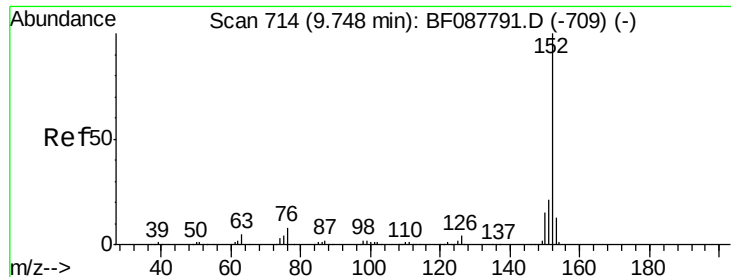
#44
 2-Fluorobiphenyl
 Concen: 83.19 ng
 RT: 8.92 min Scan# 642
 Delta R.T. -0.05 min
 Lab File: BF088380.D
 Acq: 25 Jun 2016 16:45

Tgt Ion	Ratio	Lower	Upper
172	100		
171	36.0	28.6	43.0
170	24.3	19.2	28.8



Abundance Ion 172.00 (171.70 to 172.70): E
 Ion 171.00 (170.70 to 171.70): E
 Ion 170.00 (169.70 to 170.70): E





#48

Acenaphthylene

Concen: 14.51 ng

RT: 9.45 min Scan# 688

Delta R.T. -0.06 min

Lab File: BF088380.D

Acq: 25 Jun 2016 16:45

Instrument :

BNA_F

ClientSampleId :

SC-STA-1486(0-4)

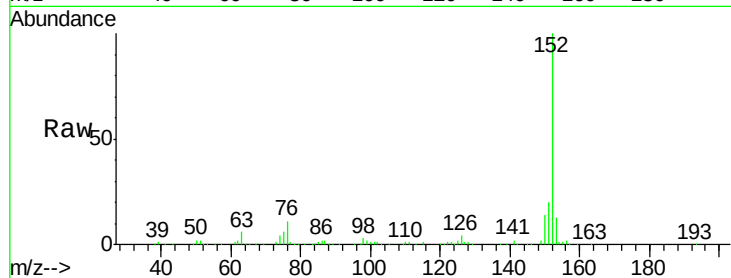
Tot Ion:152 Resp: 210715

Ion Ratio Lower Upper

152 100

151 19.7 16.2 24.4

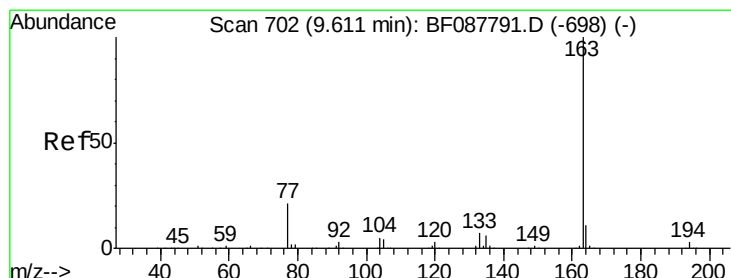
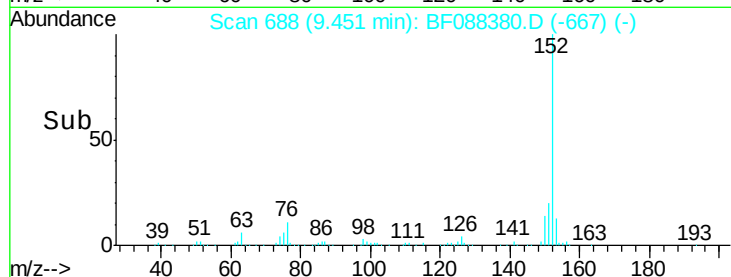
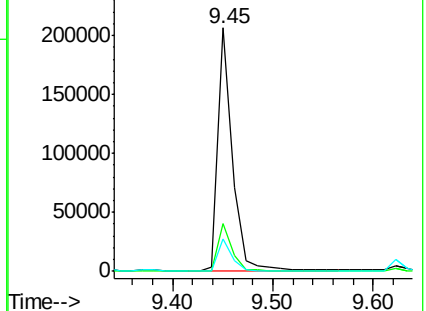
153 13.5 11.0 16.6



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E



#49

Dimethylphthalate

Concen: 13.08 ng

RT: 9.32 min Scan# 677

Delta R.T. -0.06 min

Lab File: BF088380.D

Acq: 25 Jun 2016 16:45

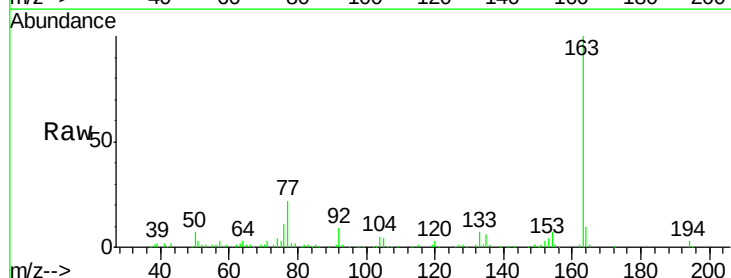
Tgt Ion:163 Resp: 133658

Ion Ratio Lower Upper

163 100

194 3.1 2.8 4.2

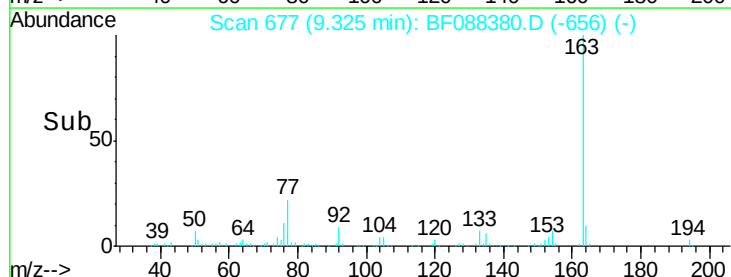
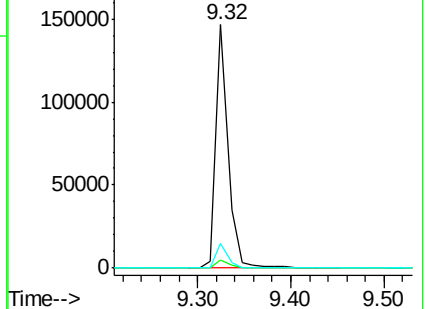
164 10.2 8.3 12.5

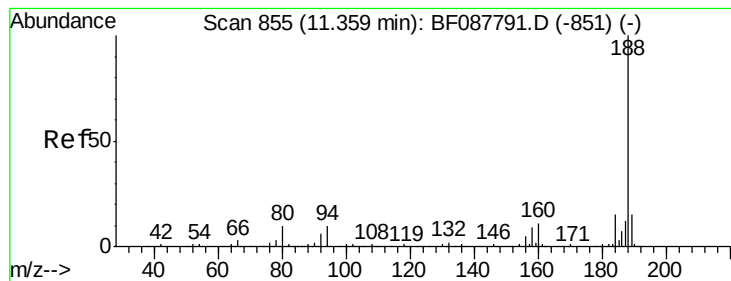


Abundance Ion 163.00 (162.70 to 163.70): E

Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E





#63

Phenanthrene-d10

Concen: 20.00 ng

RT: 11.06 min Scan# 829

Delta R.T. -0.06 min

Lab File: BF088380.D

Acq: 25 Jun 2016 16:45

Instrument :

BNA_F

ClientSampleId :

SC-STA-1486(0-4)

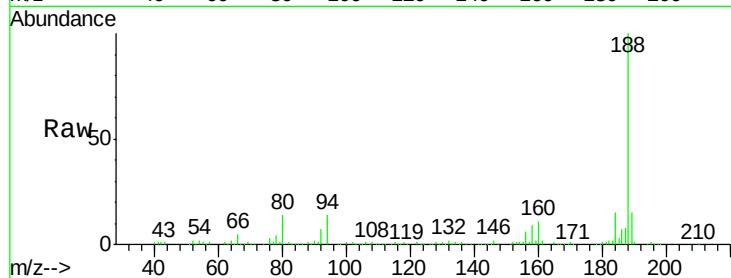
Tot Ion:188 Resp: 241064

Ion Ratio Lower Upper

188 100

94 13.7 9.0 13.6#

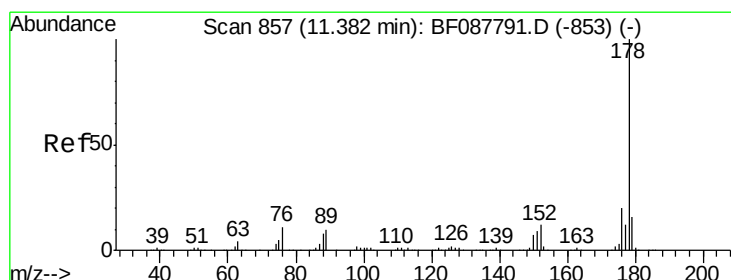
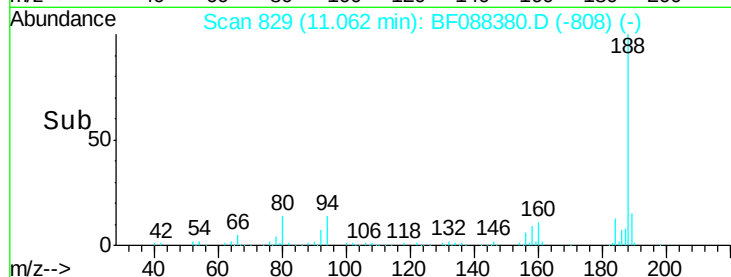
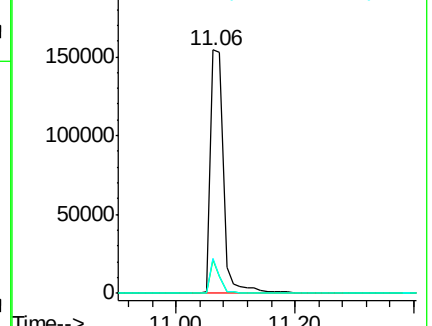
80 14.3 10.0 15.0



Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF0

Ion 80.00 (79.70 to 80.70): BF0



#70

Phenanthrene

Concen: 22.06 ng

RT: 11.10 min Scan# 832

Delta R.T. -0.05 min

Lab File: BF088380.D

Acq: 25 Jun 2016 16:45

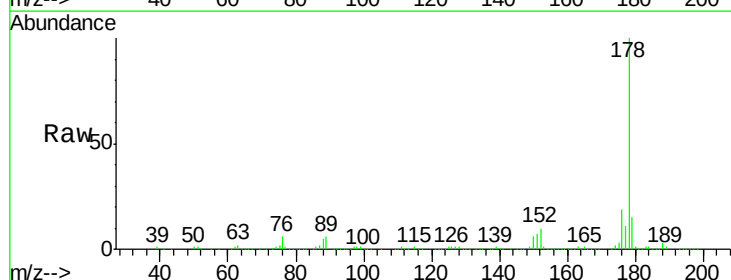
Tgt Ion:178 Resp: 279103

Ion Ratio Lower Upper

178 100

176 18.7 15.8 23.6

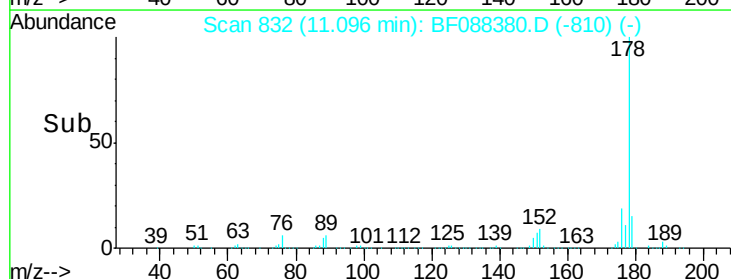
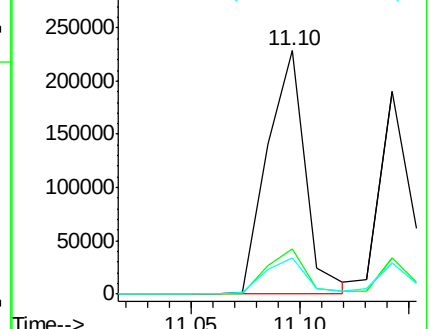
179 15.0 13.0 19.4

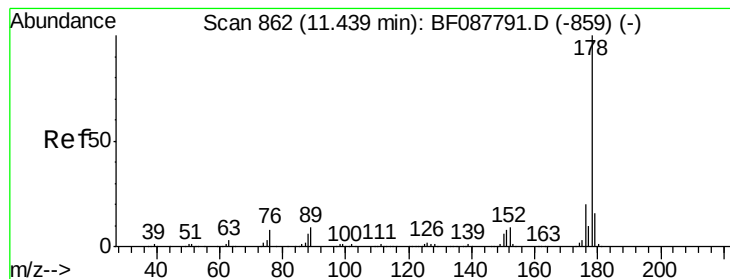


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#71

Anthracene

Concen: 17.31 ng

RT: 11.14 min Scan# 836

Delta R.T. -0.06 min

Lab File: BF088380.D

Acq: 25 Jun 2016 16:45

Instrument :

BNA_F

ClientSampleId :

SC-STA-1486(0-4)

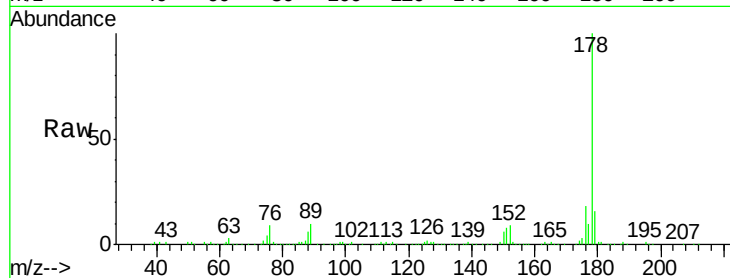
Tot Ion:178 Resp: 220859

Ion Ratio Lower Upper

178 100

176 18.1 15.6 23.4

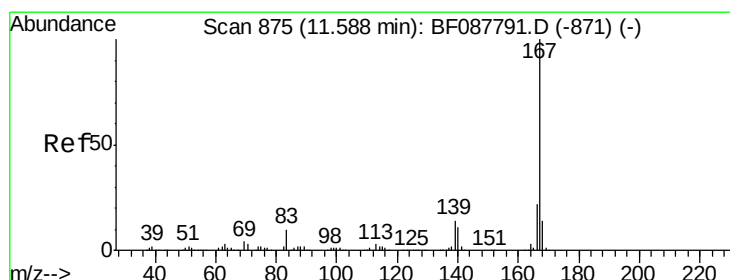
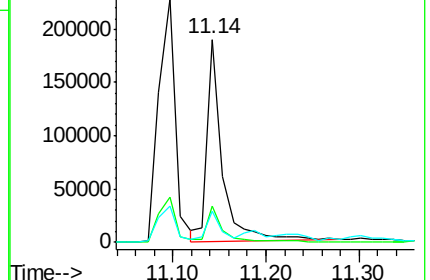
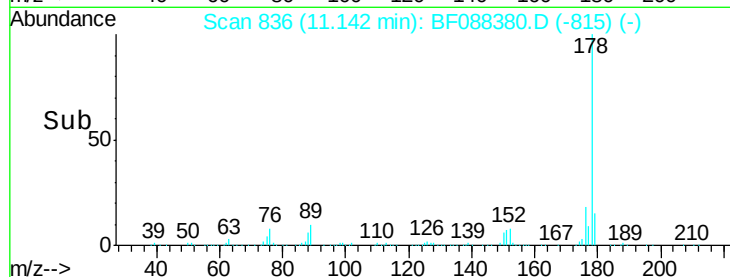
179 15.5 12.8 19.2



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



#72

Carbazole

Concen: 3.63 ng

RT: 11.31 min Scan# 851

Delta R.T. -0.05 min

Lab File: BF088380.D

Acq: 25 Jun 2016 16:45

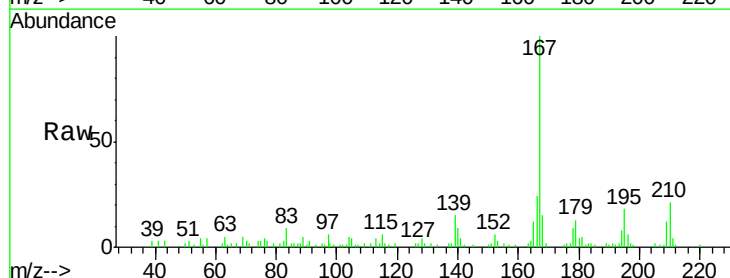
Tgt Ion:167 Resp: 43291

Ion Ratio Lower Upper

167 100

166 24.0 17.8 26.6

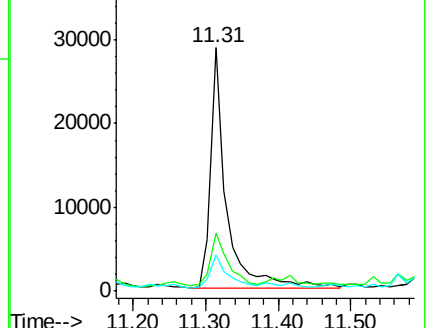
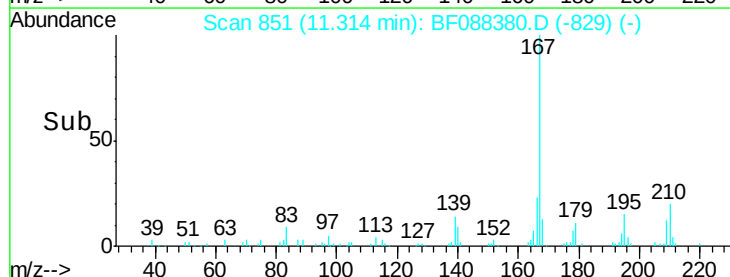
139 15.0 11.2 16.8

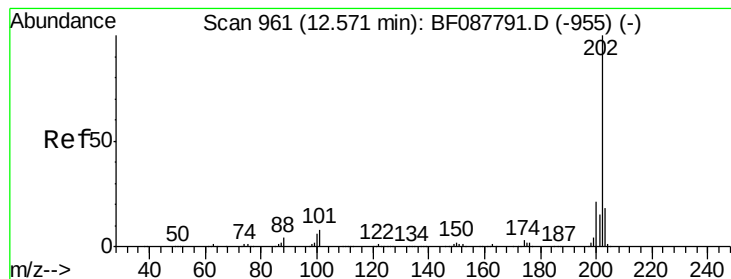


Abundance Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E





#74

Fluoranthene

Concen: 85.37 ng

RT: 12.29 min Scan# 936

Delta R.T. -0.03 min

Lab File: BF088380.D

Acq: 25 Jun 2016 16:45

Instrument :

BNA_F

ClientSampleId :

SC-STA-1486(0-4)

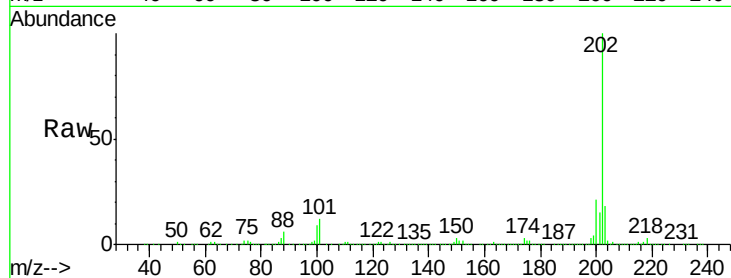
Tot Ion:202 Resp: 1139582

Ion Ratio Lower Upper

202 100

101 12.2 0.0 33.1

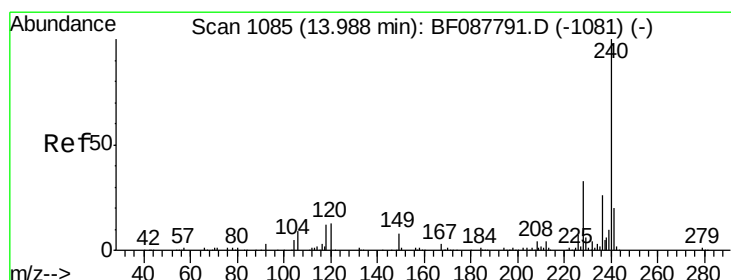
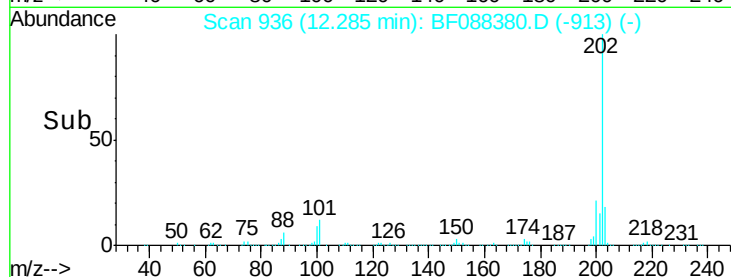
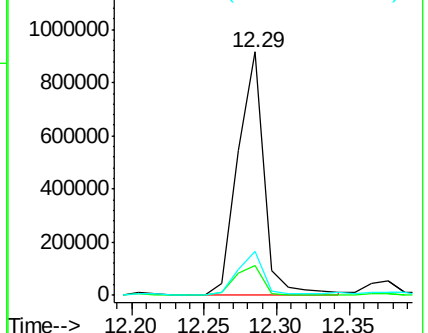
203 18.0 0.0 38.1



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: 13.70 min Scan# 1060

Delta R.T. -0.05 min

Lab File: BF088380.D

Acq: 25 Jun 2016 16:45

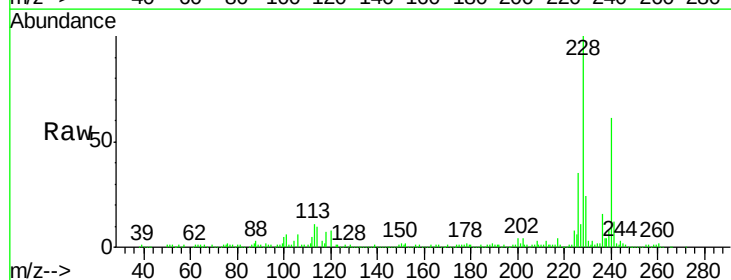
Tgt Ion:240 Resp: 151885

Ion Ratio Lower Upper

240 100

120 13.5 6.8 10.2#

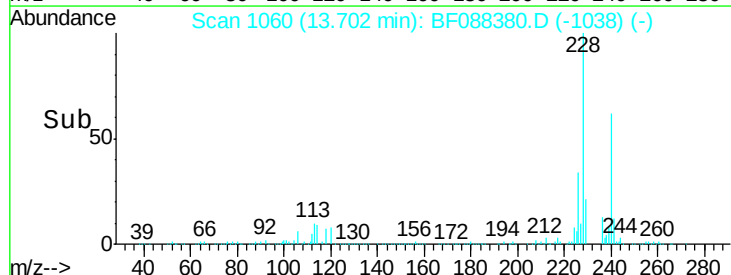
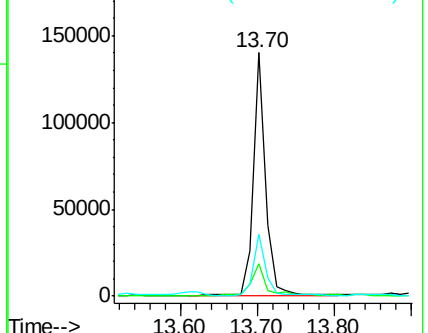
236 25.6 20.2 30.2

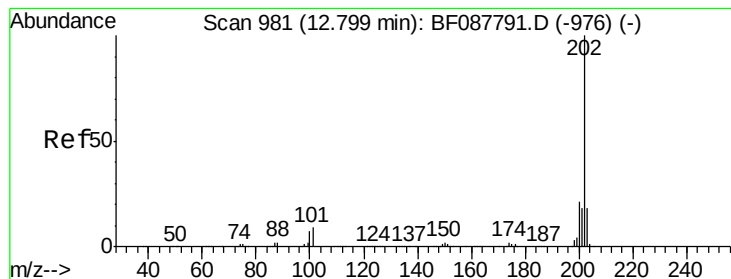


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#77

Pvrene

Concen: 92.73 ng

RT: 12.51 min Scan# 956

Delta R.T. -0.03 min

Lab File: BF088380.D

Acq: 25 Jun 2016 16:45

Instrument :

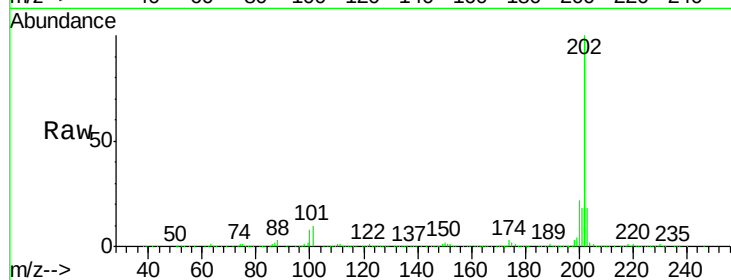
BNA_F

ClientSampleId :

SC-STA-1486(0-4)

Tot Ion:202 Resp: 1045127

Ion	Ratio	Lower	Upper
202	100		
200	21.7	17.4	26.2
203	18.3	14.5	21.7

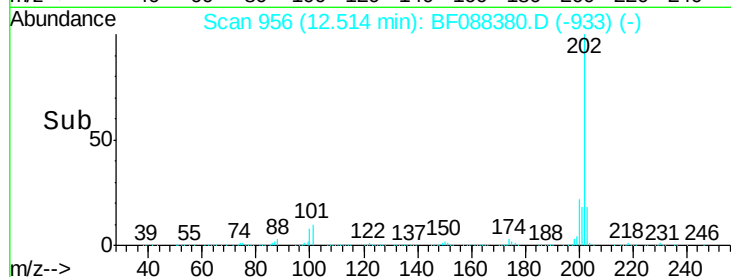
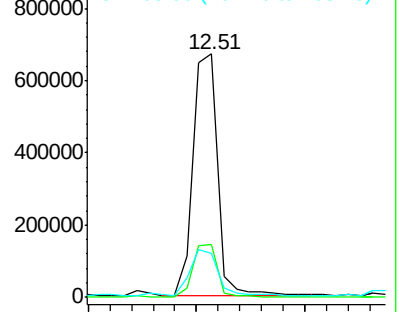


Abundance

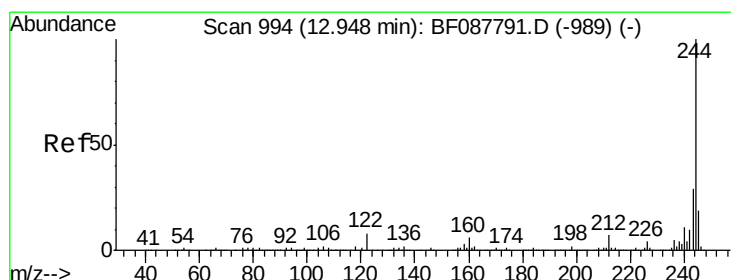
Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E



Time-->



#78

Terphenyl-d14

Concen: 66.66 ng

RT: 12.65 min Scan# 968

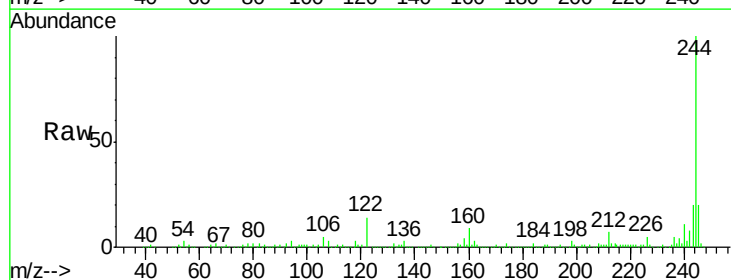
Delta R.T. -0.05 min

Lab File: BF088380.D

Acq: 25 Jun 2016 16:45

Tgt Ion:244 Resp: 444942

Ion	Ratio	Lower	Upper
244	100		
212	7.4	6.0	9.0
122	13.7	11.2	16.8

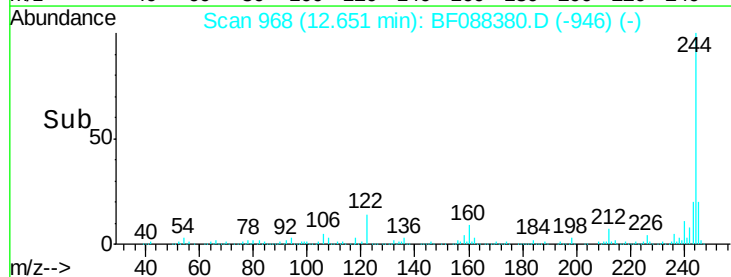
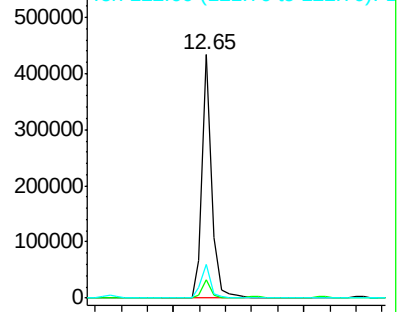


Abundance

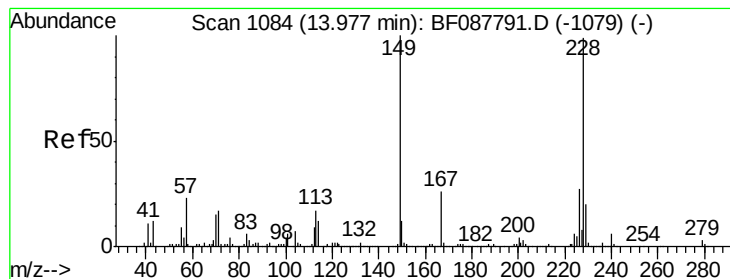
Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E



Time-->



#80

Benzo(a)anthracene

Concen: 81.33 ng

RT: 13.69 min Scan# 1059

Delta R.T. -0.05 min

Lab File: BF088380.D

Acq: 25 Jun 2016 16:45

Instrument :

BNA_F

ClientSampleId :

SC-STA-1486(0-4)

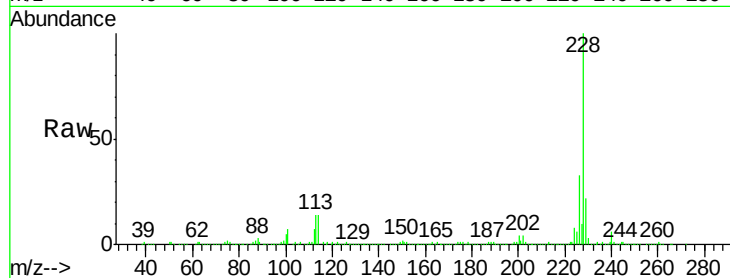
Tot Ion:228 Resp: 703952

Ion Ratio Lower Upper

228 100

226 33.3 22.3 33.5

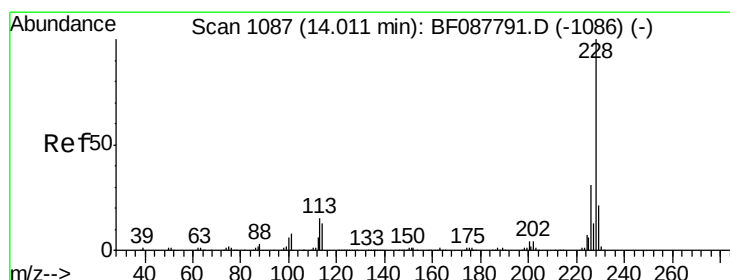
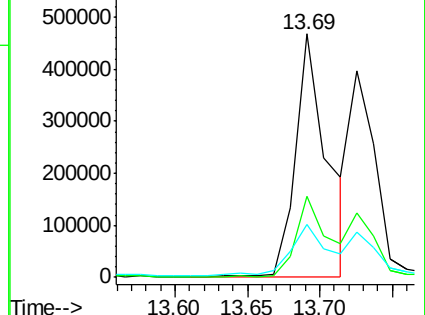
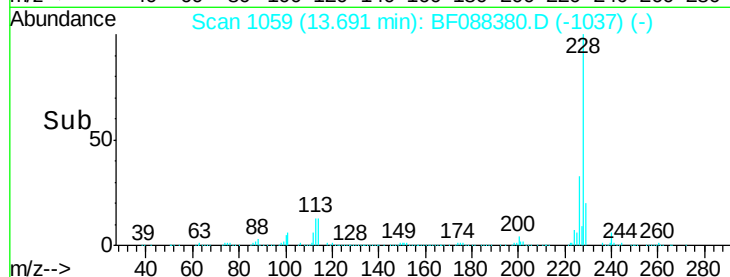
229 21.9 16.0 24.0



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: 60.13 ng m

RT: 13.73 min Scan# 1062

Delta R.T. -0.05 min

Lab File: BF088380.D

Acq: 25 Jun 2016 16:45

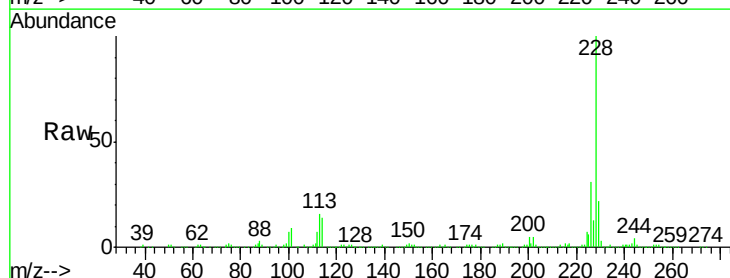
Tgt Ion:228 Resp: 489633

Ion Ratio Lower Upper

228 100

226 30.8 25.4 38.2

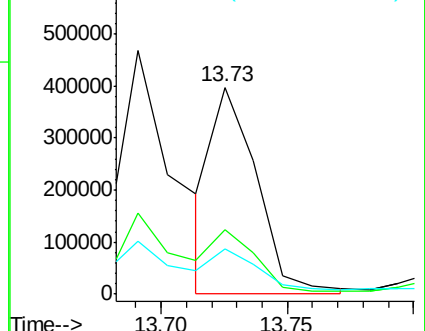
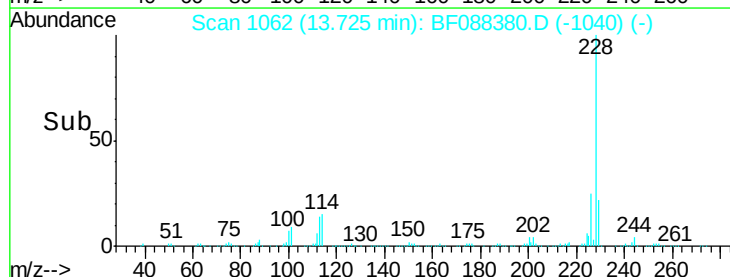
229 21.9 16.3 24.5

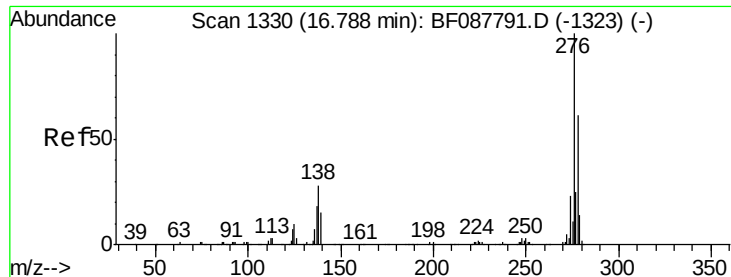


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

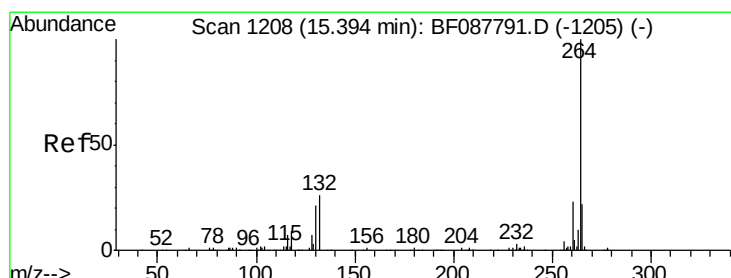
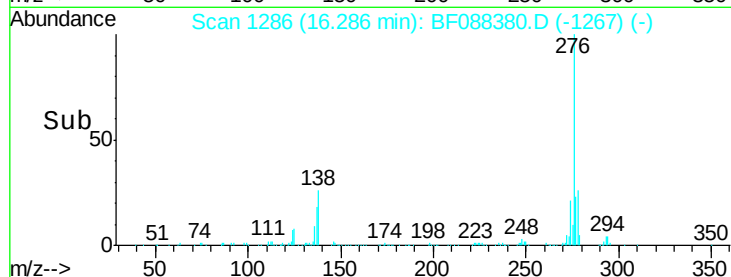
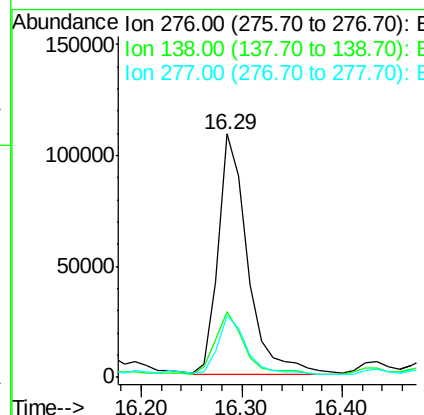
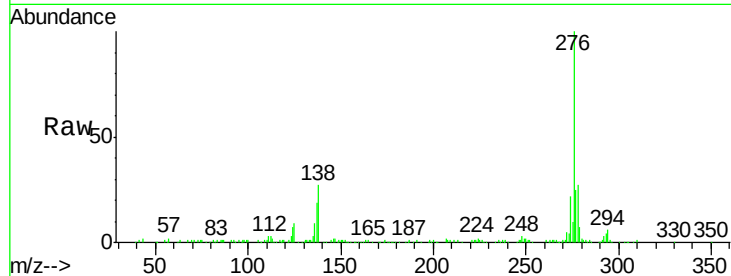




#85
Indeno(1,2,3-cd)pyrene
Concen: 29.16 ng
RT: 16.29 min Scan# 1286
Delta R.T. -0.08 min
Lab File: BF088380.D
Acq: 25 Jun 2016 16:45

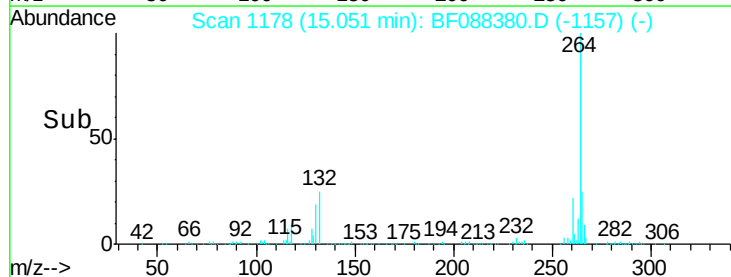
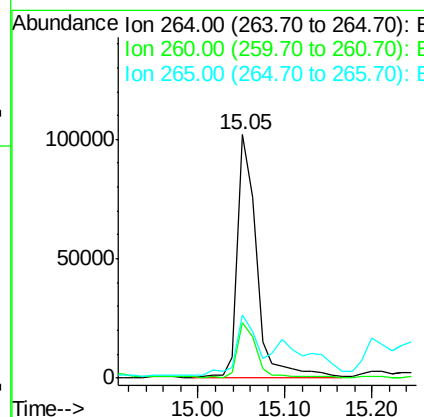
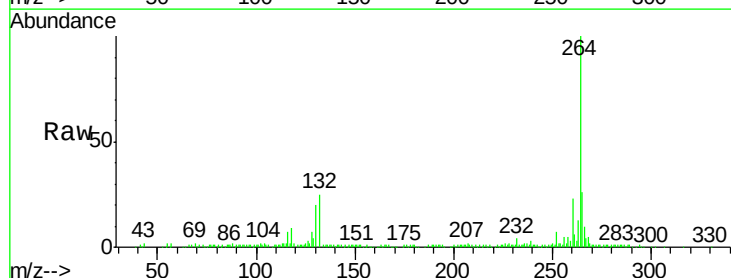
Instrument :
BNA_F
ClientSampleId :
SC-STA-1486(0-4)

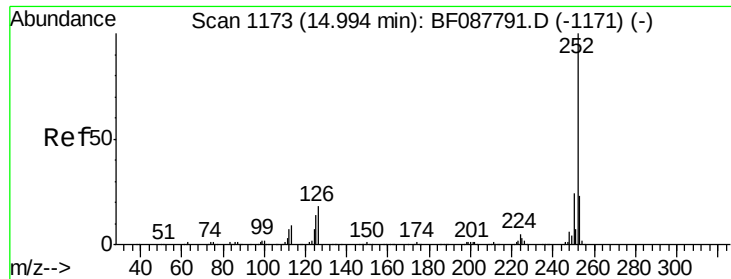
Tot Ion:276 Resp: 220573
Ion Ratio Lower Upper
276 100
138 26.9 0.0 0.0#
277 23.3 0.0 0.0#



#86
Perylene-d12
Concen: 20.00 ng
RT: 15.05 min Scan# 1178
Delta R.T. -0.06 min
Lab File: BF088380.D
Acq: 25 Jun 2016 16:45

Tgt Ion:264 Resp: 153963
Ion Ratio Lower Upper
264 100
260 23.0 19.2 28.8
265 25.9 16.9 25.3#

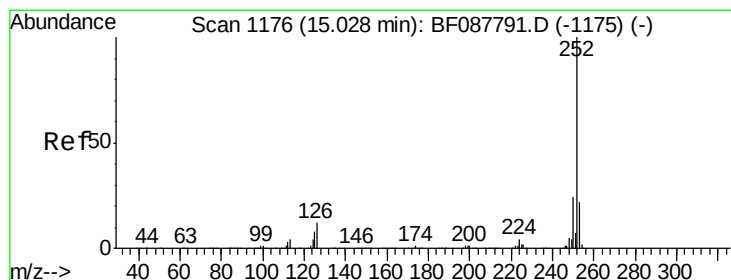
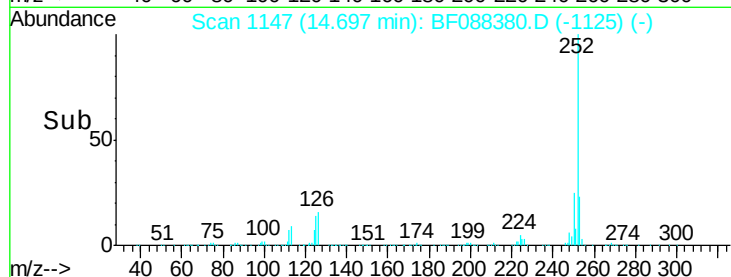
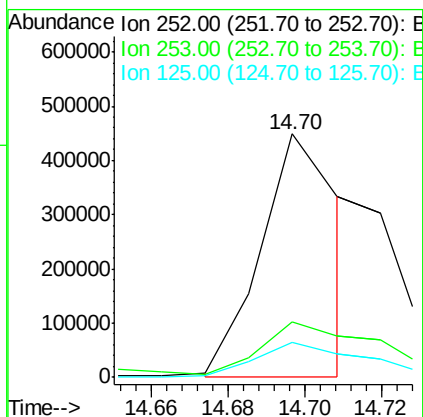
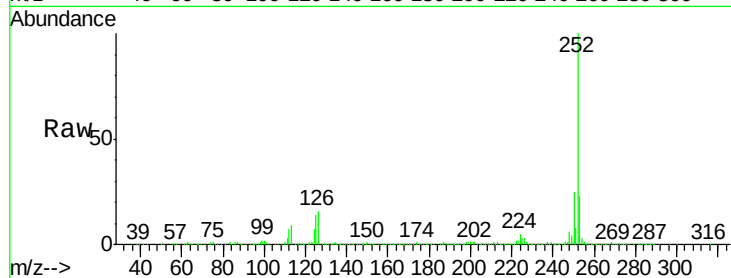




#87
Benzo(b)fluoranthene
Concen: 59.89 ng m
RT: 14.70 min Scan# 1147
Delta R.T. -0.05 min
Lab File: BF088380.D
Acq: 25 Jun 2016 16:45

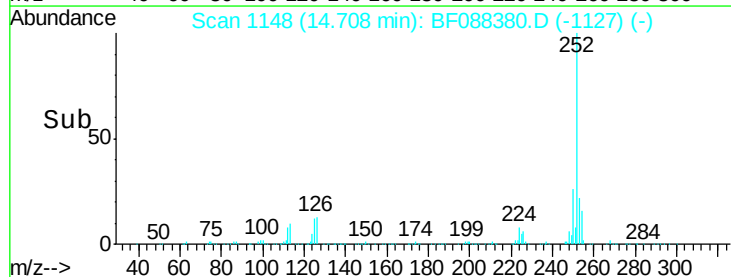
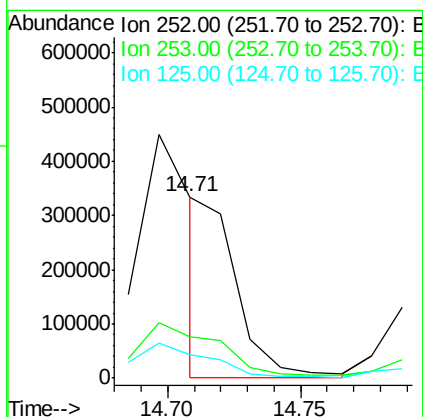
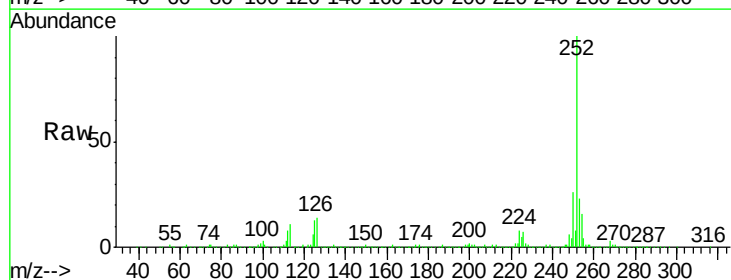
Instrument :
BNA_F
ClientSampleId :
SC-STA-1486(0-4)

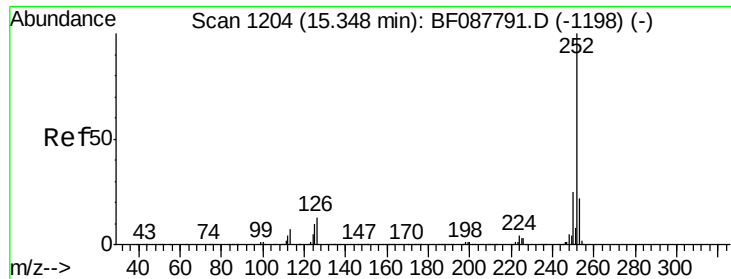
Tot Ion:252 Resp: 642711
Ion Ratio Lower Upper
252 100
253 22.8 17.4 26.2
125 14.1 7.1 10.7#



#88
Benzo(k)fluoranthene
Concen: 35.09 ng m
RT: 14.71 min Scan# 1148
Delta R.T. -0.06 min
Lab File: BF088380.D
Acq: 25 Jun 2016 16:45

Tgt Ion:252 Resp: 284082
Ion Ratio Lower Upper
252 100
253 22.7 18.0 27.0
125 12.6 11.2 16.8





#89

Benzo(a)pyrene

Concen: 47.63 ng

RT: 15.01 min Scan# 1174

Delta R.T. -0.05 min

Lab File: BF088380.D

Acq: 25 Jun 2016 16:45

Instrument :

BNA_F

ClientSampleId :

SC-STA-1486(0-4)

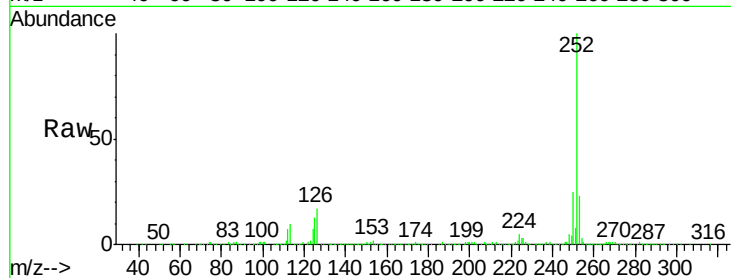
Tot Ion:252 Resp: 413527

Ion Ratio Lower Upper

252 100

253 23.3 17.9 26.9

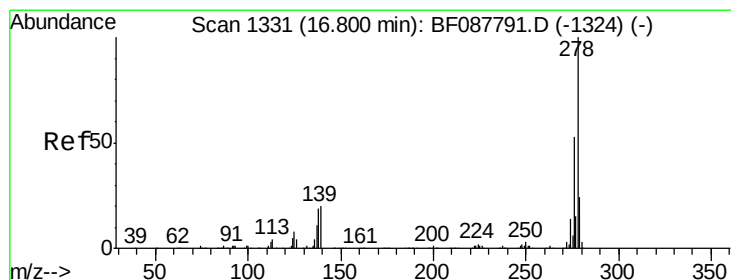
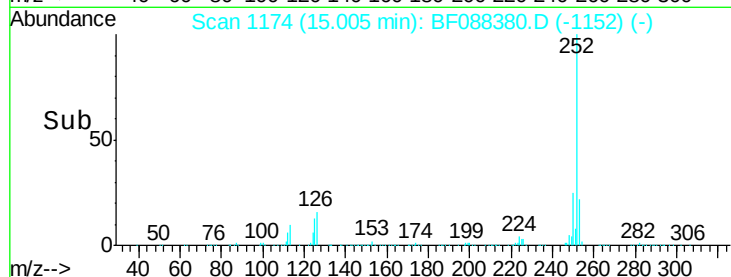
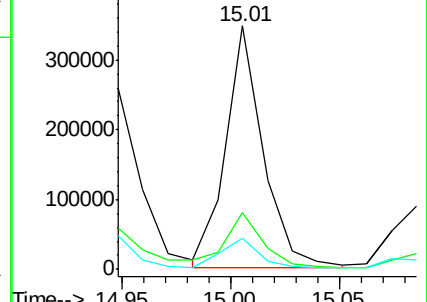
125 12.9 12.5 18.7



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



#90

Dibenzo(a,h)anthracene

Concen: 7.47 ng m

RT: 16.29 min Scan# 1286

Delta R.T. -0.08 min

Lab File: BF088380.D

Acq: 25 Jun 2016 16:45

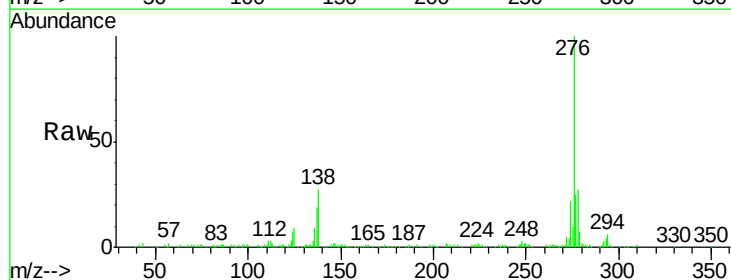
Tgt Ion:278 Resp: 60196

Ion Ratio Lower Upper

278 100

139 0.0 15.7 23.5#

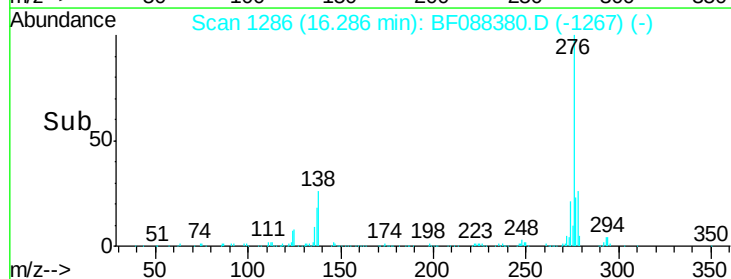
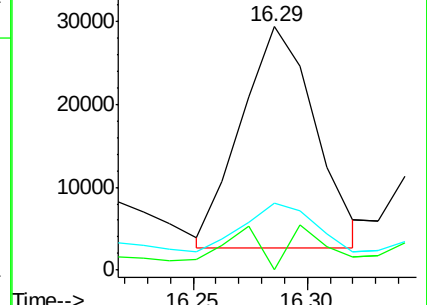
279 27.4 19.4 29.2

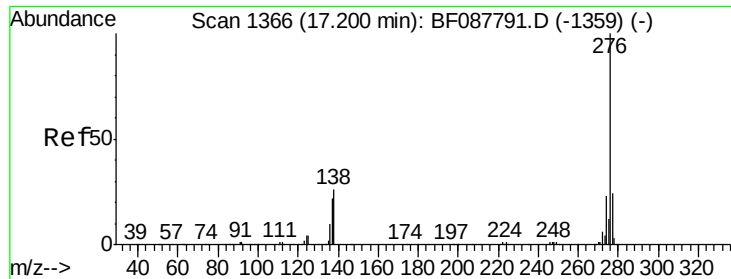


Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E





#91

Benzo(a,h,i)perylene

Concen: 21.50 ng

RT: 16.66 min Scan# 1319

Delta R.T. -0.08 min

Lab File: BF088380.D

Acq: 25 Jun 2016 16:45

Instrument :

BNA_F

ClientSampleId :

SC-STA-1486(0-4)

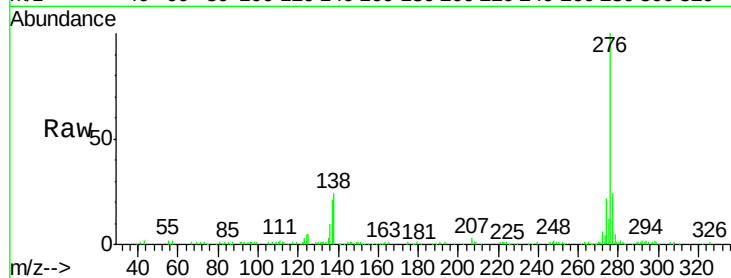
Tot Ion:276 Resp: 178376

Ion Ratio Lower Upper

276 100

277 24.1 18.9 28.3

138 24.4 21.4 32.2



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

