

Data Path : Z:\HPCHEM1\BNA F\DATA\BF042116\
 Data File : BF086349.D
 Acq On : 21 Apr 2016 17:50
 Operator : UM/SJ
 Sample : H2601-07DL 2X
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 RODNEY-AVE-PS(0-2)DDL

Quant Time: Apr 22 01:09:52 2016
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF042016.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Apr 20 15:45:26 2016
 Response via : Initial Calibration

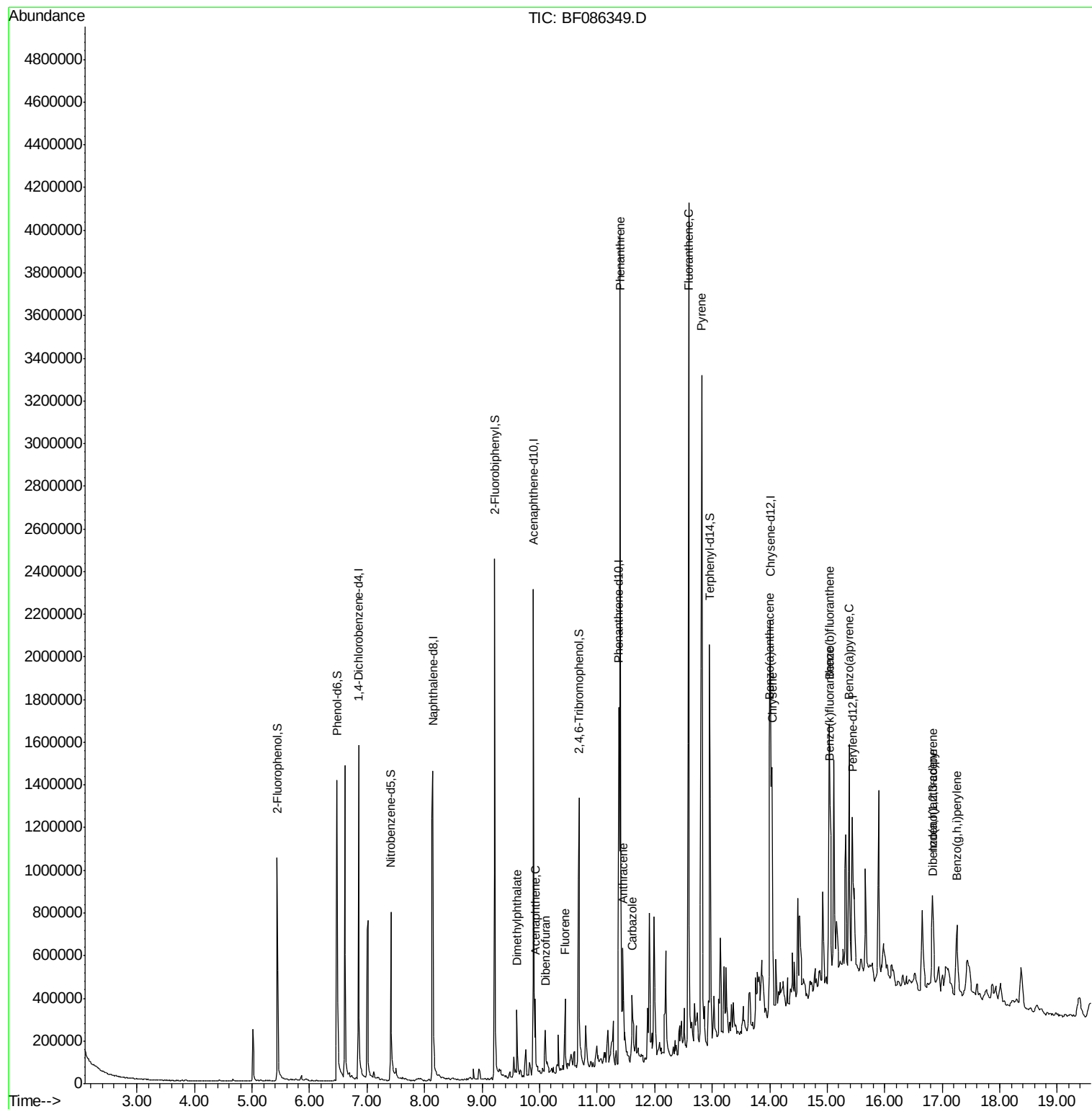
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.85	152	273574	20.00	ng	-0.05
21) Naphthalene-d8	8.14	136	1116310	20.00	ng	-0.03
38) Acenaphthene-d10	9.89	164	485665	20.00	ng	-0.05
63) Phenanthrene-d10	11.38	188	746878	20.00	ng	-0.03
75) Chrysene-d12	14.01	240	416795	20.00	ng	-0.05
86) Perylene-d12	15.44	264	401847	20.00	ng	-0.05
System Monitoring Compounds						
5) 2-Fluorophenol	5.44	112	403811	25.75	ng	-0.05
7) Phenol-d6	6.48	99	673052	32.80	ng	-0.05
23) Nitrobenzene-d5	7.41	82	374683	19.22	ng	-0.05
41) 2,4,6-Tribromophenol	10.68	330	211571	55.89	ng	-0.05
44) 2-Fluorobiphenyl	9.22	172	961956	30.89	ng	-0.05
78) Terphenyl-d14	12.96	244	745604	42.58	ng	-0.05
Target Compounds						Qvalue
49) Dimethylphthalate	9.61	163	132787	3.59	ng	99
51) Acenaphthene	9.93	154	87819	3.32	ng	99
54) Dibenzofuran	10.10	168	104494	2.90	ng	99
57) Fluorene	10.44	166	137173	5.14	ng	98
70) Phenanthrene	11.40	178	1552159	43.85	ng	99
71) Anthracene	11.45	178	321537	8.48	ng	98
72) Carbazole	11.61	167	209548	5.84	ng	97
74) Fluoranthene	12.59	202	1848010	56.32	ng	98
77) Pyrene	12.82	202	1568682	50.74	ng	99
80) Benzo(a)anthracene	14.00	228	685000	31.20	ng	96
82) Chrysene	14.04	228	666734	28.09	ng	97
85) Indeno(1,2,3-cd)pyrene	16.83	276	364511	14.94	ng	93
87) Benzo(b)fluoranthene	15.04	252	867106m	37.31	ng	
88) Benzo(k)fluoranthene	15.05	252	303494m	15.51	ng	
89) Benzo(a)pyrene	15.38	252	601098	28.06	ng	99
90) Dibenzo(a,h)anthracene	16.84	278	75599	4.04	ng	# 87
91) Benzo(a,h,i)perylene	17.25	276	320644	17.88	ng	95

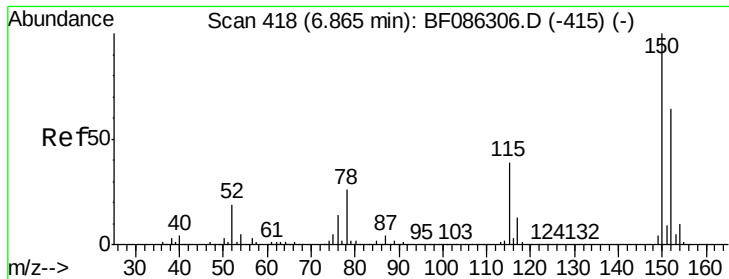
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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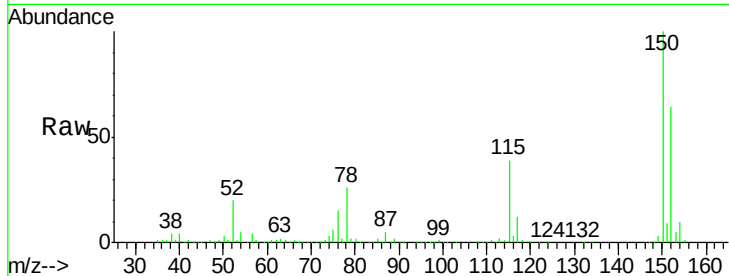


#1

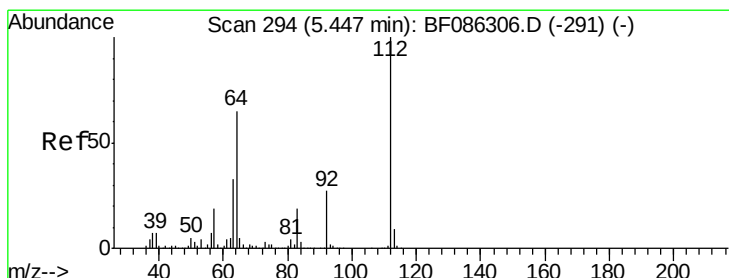
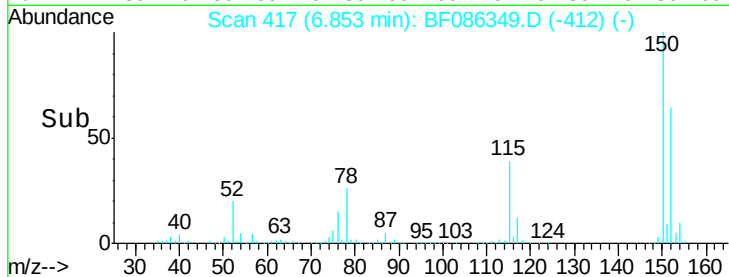
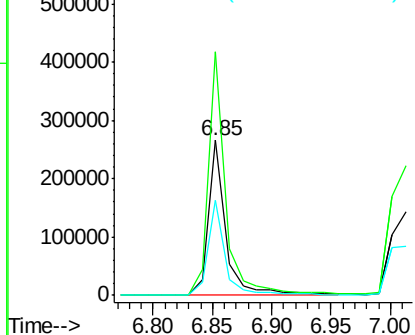
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 6.85 min Scan# 417
Delta R.T. -0.05 min
Lab File: BF086349.D
Acq: 21 Apr 2016 17:50

Instrument :
BNA_F
ClientSampleId :
RODNEY-AVE-PS(0-2)DDL

Tot Ion:152 Resp: 273574
Ion Ratio Lower Upper
152 100
150 157.2 124.1 186.1
115 61.4 43.9 65.9



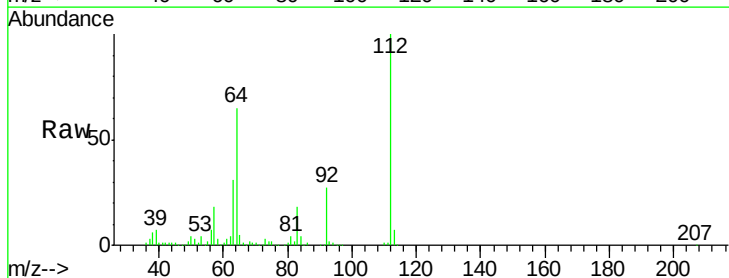
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



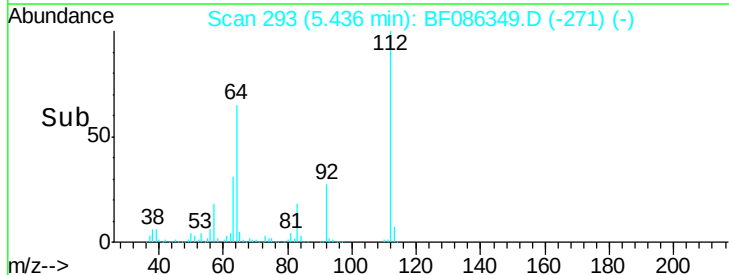
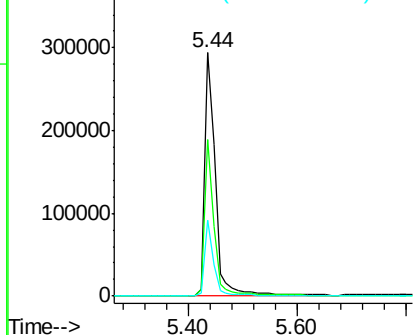
#5

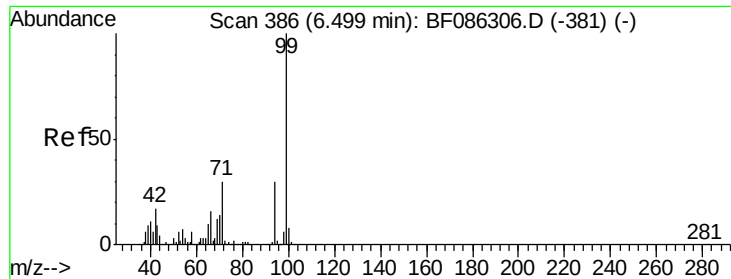
2-Fluorophenol
Concen: 25.75 ng
RT: 5.44 min Scan# 293
Delta R.T. -0.05 min
Lab File: BF086349.D
Acq: 21 Apr 2016 17:50

Tgt Ion:112 Resp: 403811
Ion Ratio Lower Upper
112 100
64 64.5 48.1 72.1
63 30.9 25.5 38.3



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: 32.80 ng

RT: 6.48 min Scan# 384

Delta R.T. -0.05 min

Lab File: BF086349.D

Acq: 21 Apr 2016 17:50

Instrument :

BNA_F

ClientSampleId :

RODNEY-AVE-PS(0-2)DDL

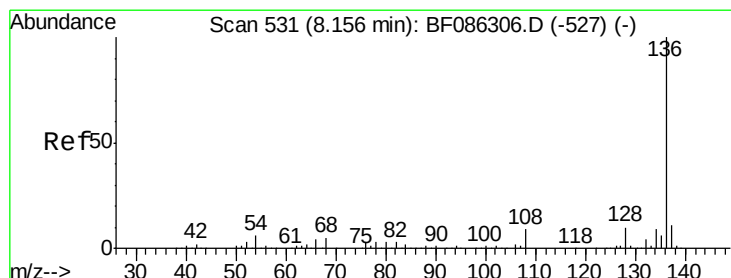
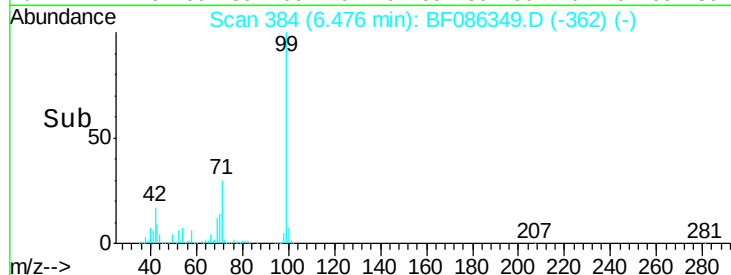
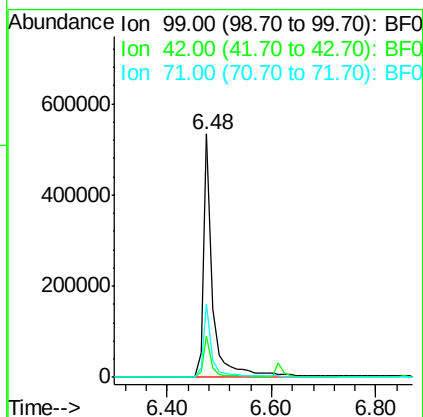
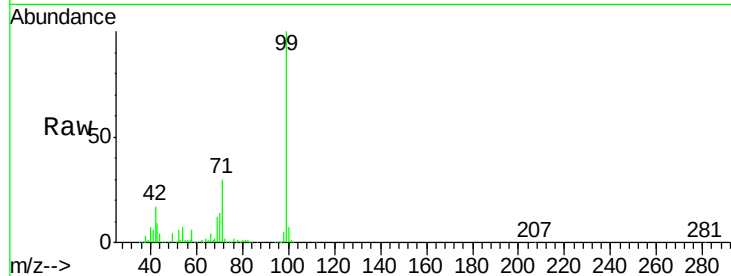
Tot Ion: 99 Resp: 673052

Ion Ratio Lower Upper

99 100

42 17.2 15.4 23.2

71 30.2 25.6 38.4



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 8.14 min Scan# 530

Delta R.T. -0.03 min

Lab File: BF086349.D

Acq: 21 Apr 2016 17:50

Tgt Ion: 136 Resp: 1116310

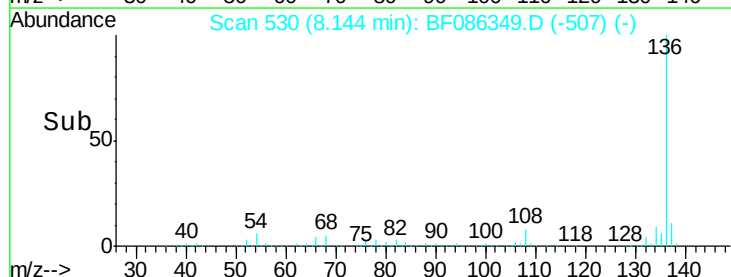
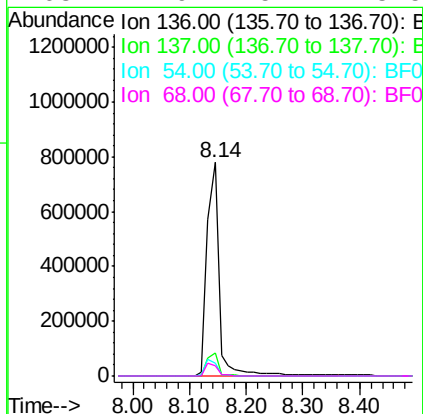
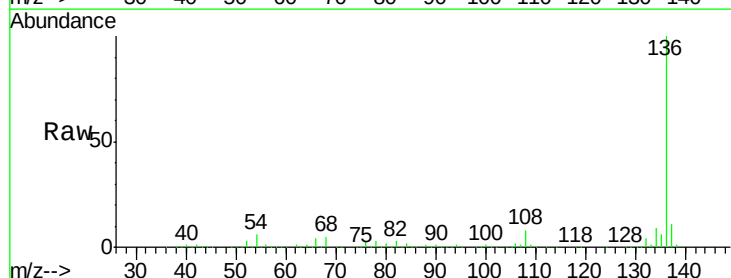
Ion Ratio Lower Upper

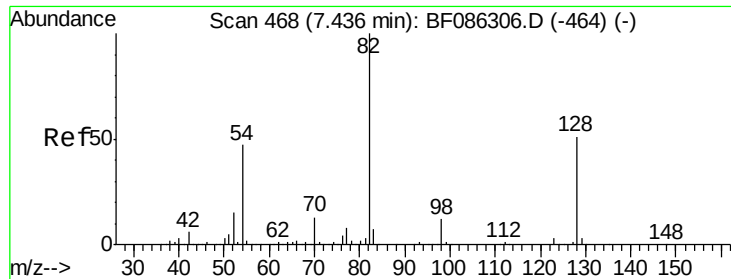
136 100

137 10.6 9.1 13.7

54 5.8 7.3 10.9#

68 4.9 5.7 8.5#

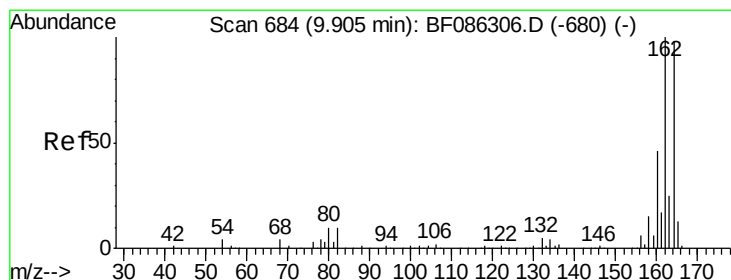
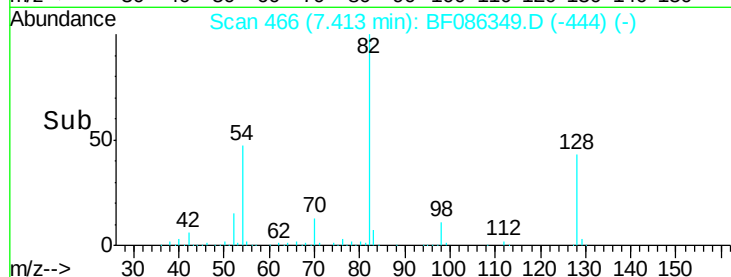
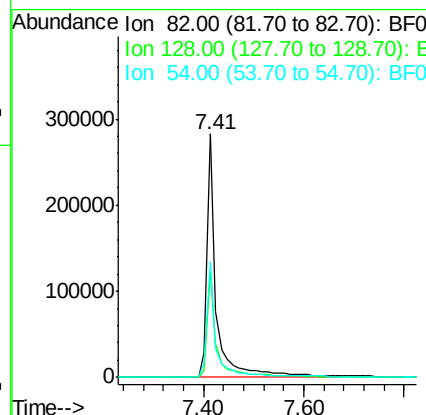
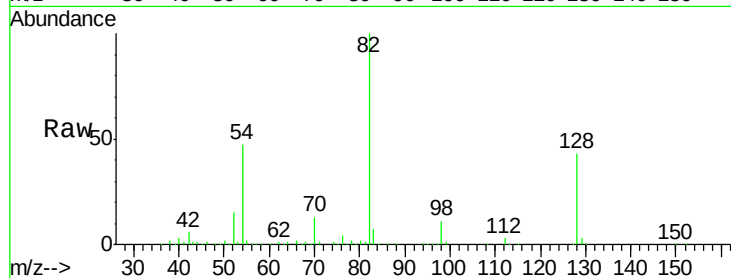




#23
 Nitrobenzene-d5
 Concen: 19.22 ng
 RT: 7.41 min Scan# 466
 Delta R.T. -0.05 min
 Lab File: BF086349.D
 Acq: 21 Apr 2016 17:50

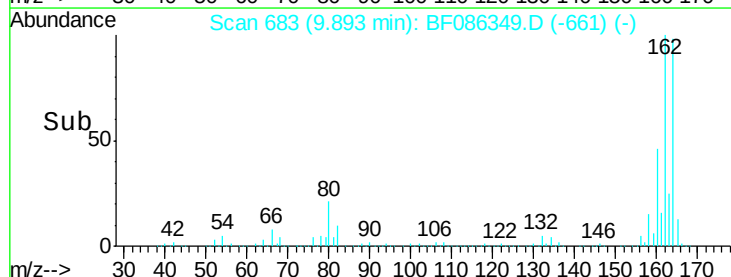
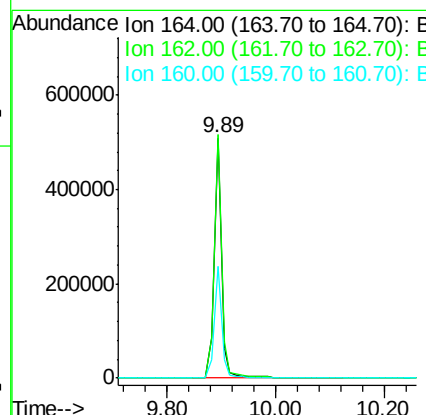
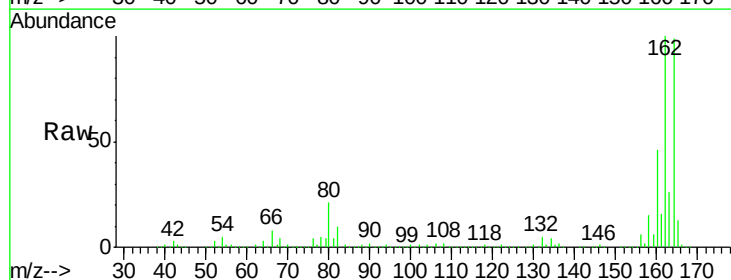
Instrument :
 BNA_F
 ClientSampleId :
 RODNEY-AVE-PS(0-2)DDL

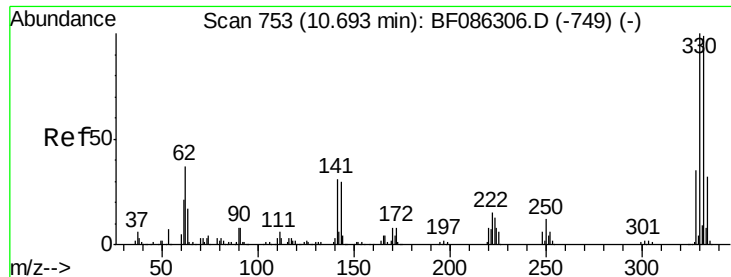
Tot Ion: 82 Resp: 374683
 Ion Ratio Lower Upper
 82 100
 128 43.3 35.4 53.2
 54 47.4 43.4 65.0



#38
 Acenaphthene-d10
 Concen: 20.00 ng
 RT: 9.89 min Scan# 683
 Delta R.T. -0.05 min
 Lab File: BF086349.D
 Acq: 21 Apr 2016 17:50

Tgt Ion: 164 Resp: 485665
 Ion Ratio Lower Upper
 164 100
 162 101.5 82.8 124.2
 160 46.4 38.9 58.3

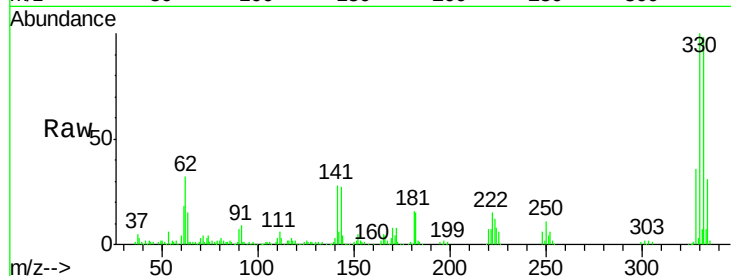




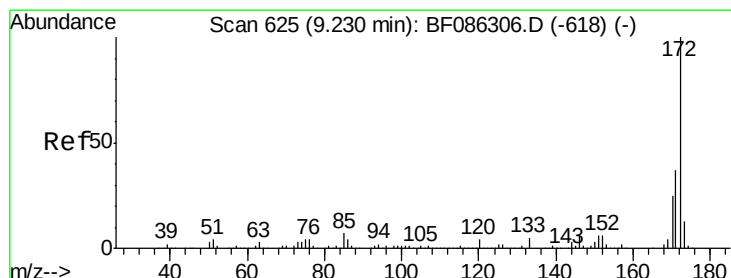
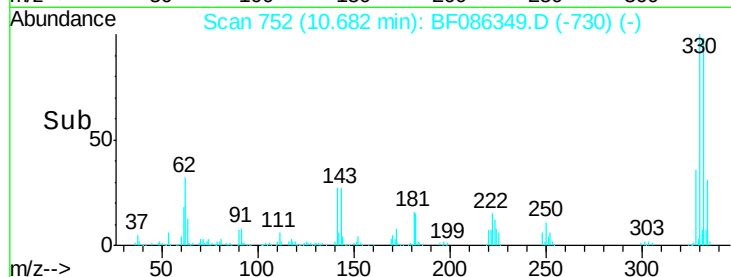
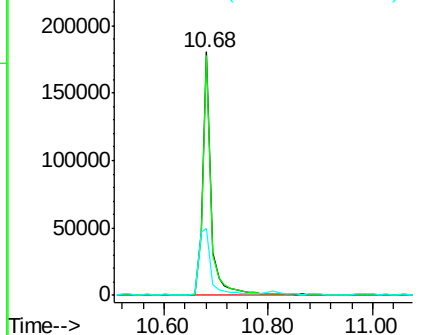
#41
 2,4,6-Tribromophenol
 Concen: 55.89 ng
 RT: 10.68 min Scan# 752
 Delta R.T. -0.05 min
 Lab File: BF086349.D
 Acq: 21 Apr 2016 17:50

Instrument :
 BNA_F
 ClientSampleId :
 RODNEY-AVE-PS(0-2)DDL

Tot Ion	Ratio	Lower	Upper
330	100		
332	97.5	78.7	118.1
141	38.3	28.6	42.8

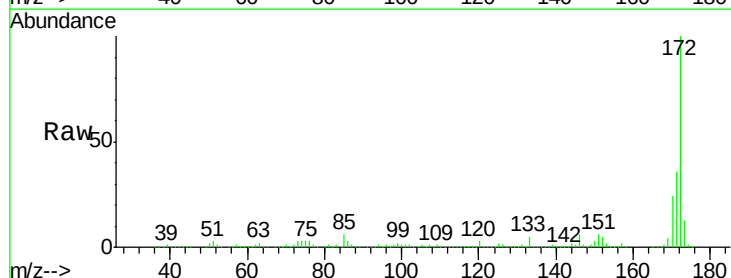


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

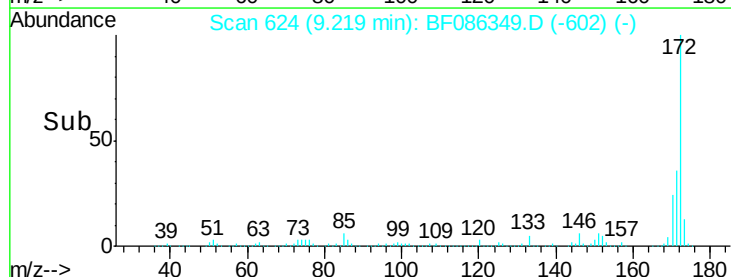
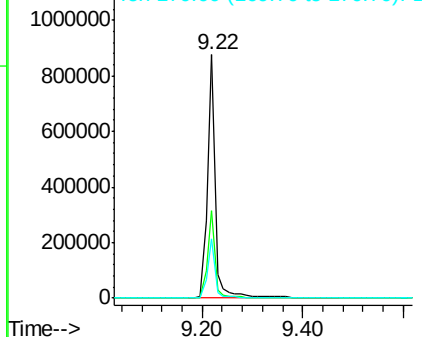


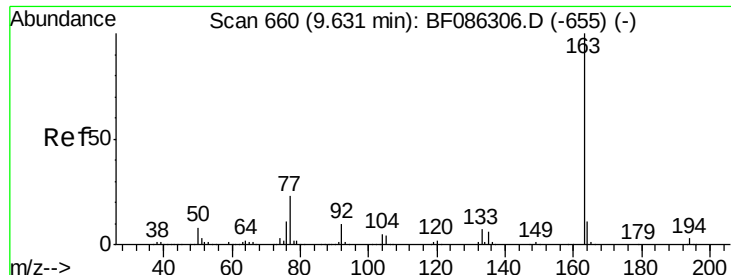
#44
 2-Fluorobiphenyl
 Concen: 30.89 ng
 RT: 9.22 min Scan# 624
 Delta R.T. -0.05 min
 Lab File: BF086349.D
 Acq: 21 Apr 2016 17:50

Tgt Ion	Ratio	Lower	Upper
172	100		
171	35.8	29.1	43.7
170	24.2	19.9	29.9



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





#49

Dimethylphthalate

Concen: 3.59 ng

RT: 9.61 min Scan# 658

Delta R.T. -0.06 min

Lab File: BF086349.D

Acq: 21 Apr 2016 17:50

Instrument :

BNA_F

ClientSampleId :

RODNEY-AVE-PS(0-2)DDL

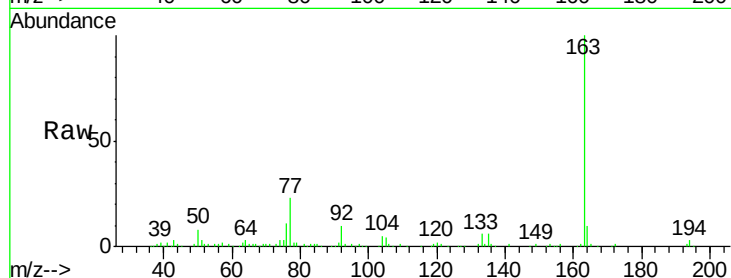
Tot Ion:163 Resp: 132787

Ion Ratio Lower Upper

163 100

194 3.0 2.8 4.2

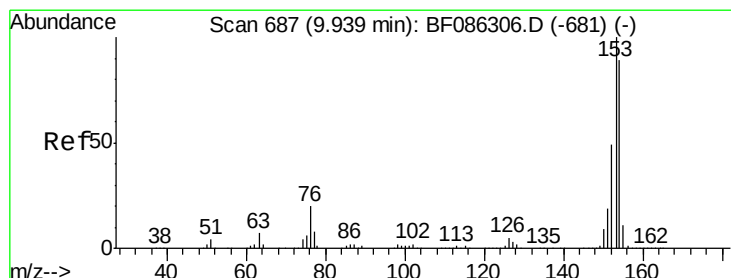
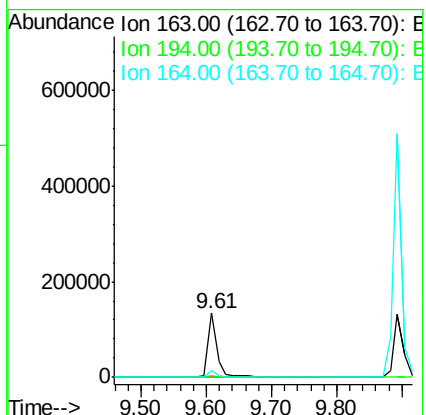
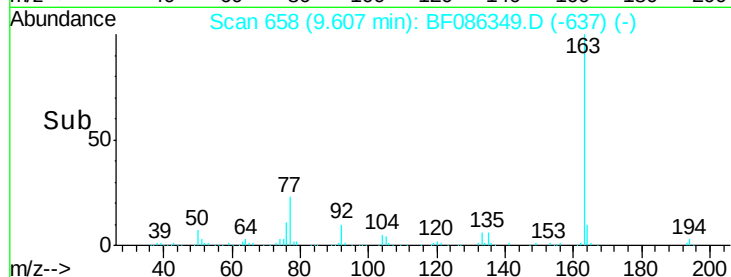
164 10.3 8.4 12.6



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



#51

Acenaphthene

Concen: 3.32 ng

RT: 9.93 min Scan# 686

Delta R.T. -0.05 min

Lab File: BF086349.D

Acq: 21 Apr 2016 17:50

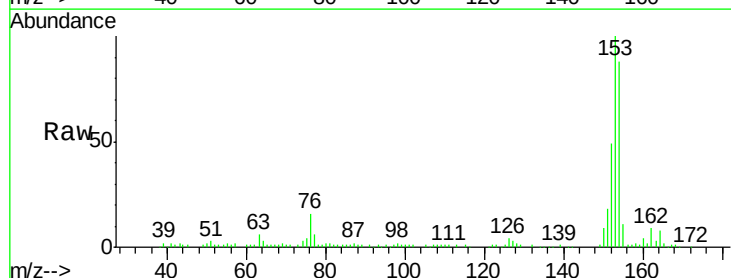
Tgt Ion:154 Resp: 87819

Ion Ratio Lower Upper

154 100

153 114.0 90.0 135.0

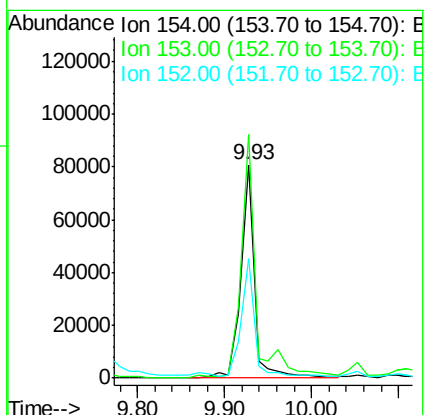
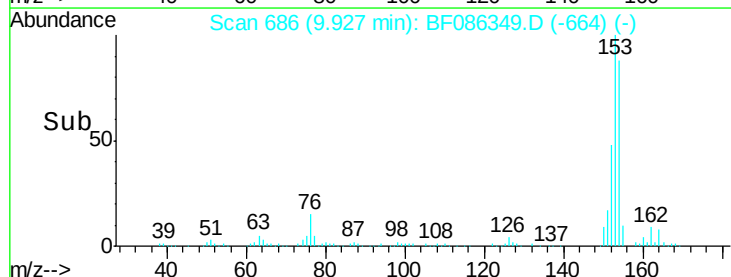
152 55.7 44.3 66.5

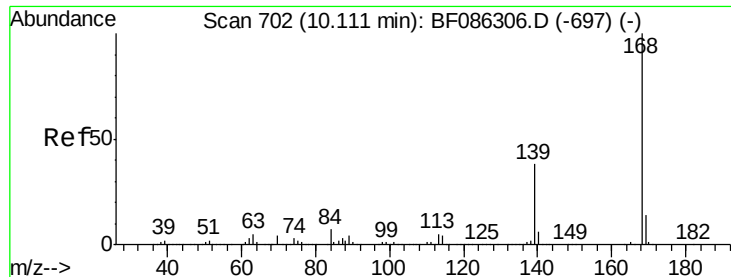


Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E





#54

Dibenzofuran

Concen: 2.90 ng

RT: 10.10 min Scan# 701

Delta R.T. -0.05 min

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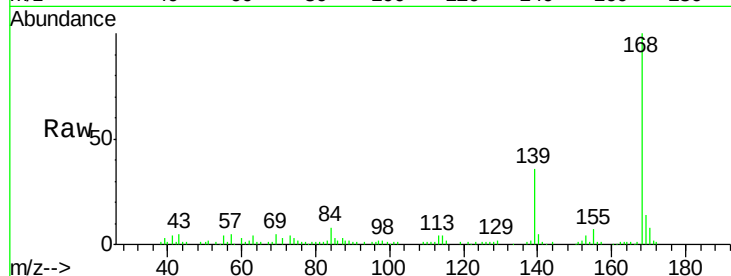
Tot Ion:168 Resp: 104494

Ion Ratio Lower Upper

168 100

139 36.3 29.5 44.3

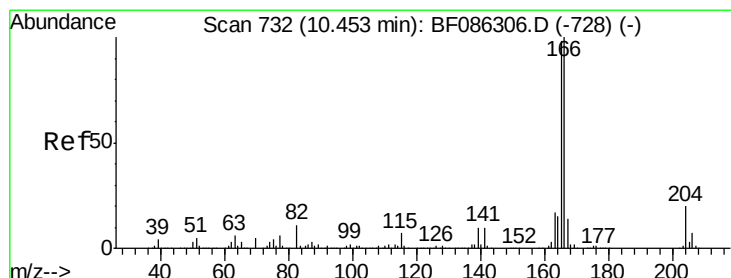
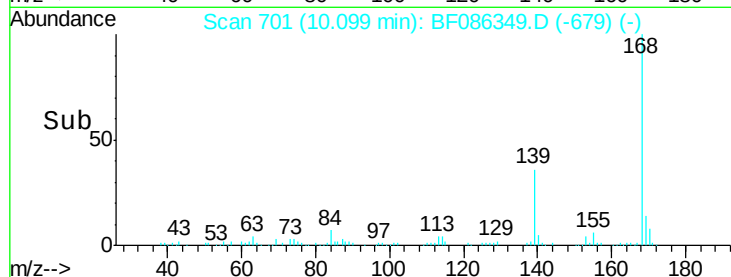
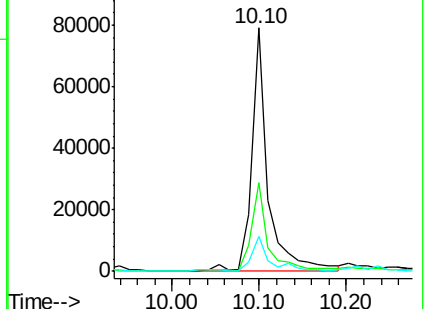
169 14.4 10.6 16.0



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



#57

Fluorene

Concen: 5.14 ng

RT: 10.44 min Scan# 731

Delta R.T. -0.05 min

Lab File: BF086349.D

Acq: 21 Apr 2016 17:50

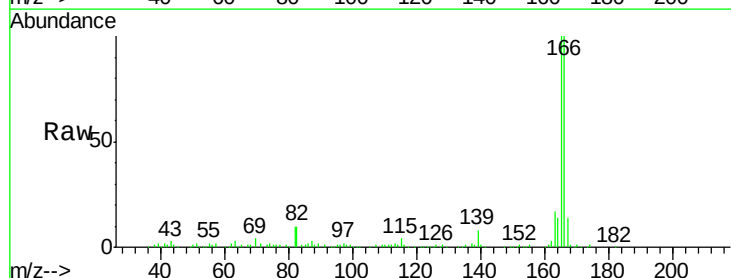
Tgt Ion:166 Resp: 137173

Ion Ratio Lower Upper

166 100

165 100.4 78.6 117.8

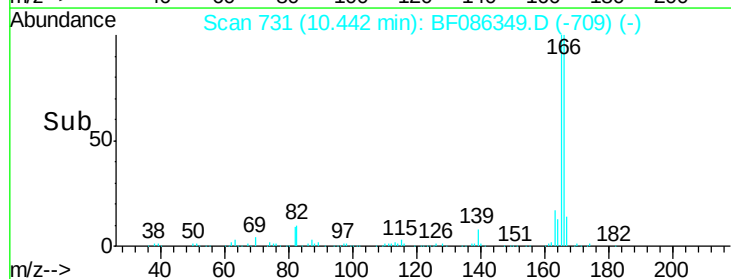
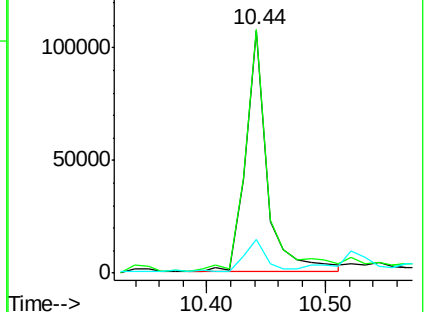
167 14.2 10.4 15.6

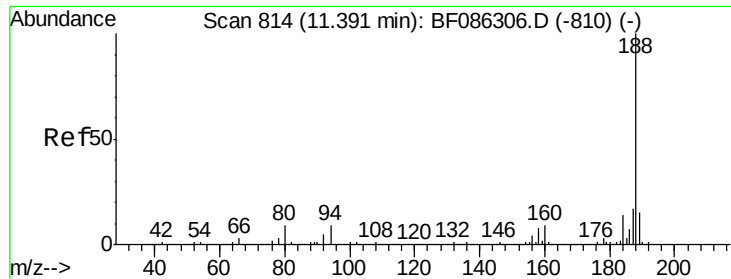


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E





#63

Phenanthrene-d10

Concen: 20.00 ng

RT: 11.38 min Scan# 813

Delta R.T. -0.03 min

Lab File: BF086349.D

Acq: 21 Apr 2016 17:50

Instrument :

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RODNEY-AVE-PS(0-2)DDL

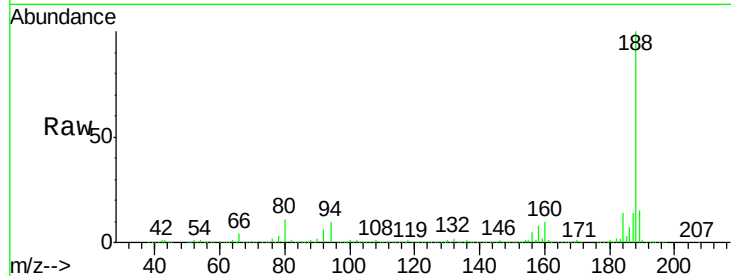
Tot Ion:188 Resp: 746878

Ion Ratio Lower Upper

188 100

94 10.2 9.8 14.8

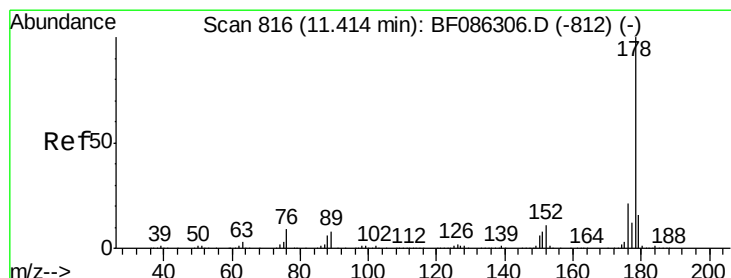
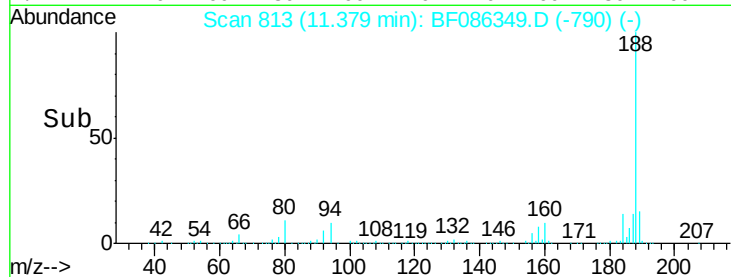
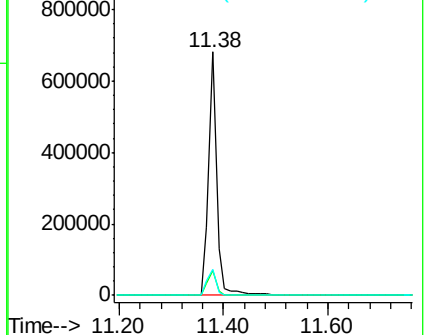
80 10.6 10.5 15.7



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: 43.85 ng

RT: 11.40 min Scan# 815

Delta R.T. -0.03 min

Lab File: BF086349.D

Acq: 21 Apr 2016 17:50

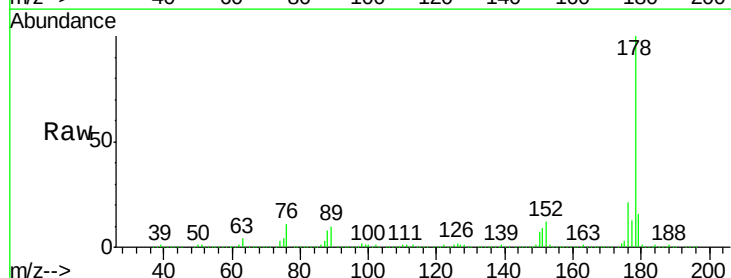
Tgt Ion:178 Resp: 1552159

Ion Ratio Lower Upper

178 100

176 20.7 16.3 24.5

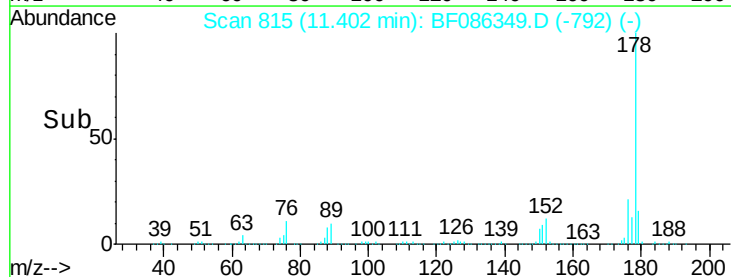
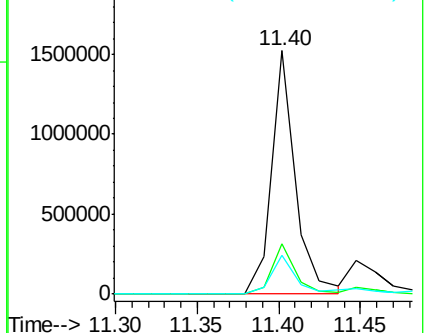
179 15.9 13.0 19.6

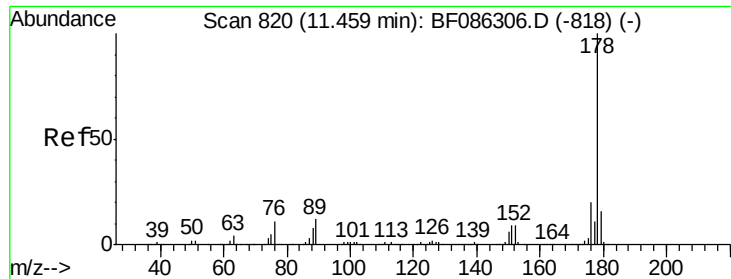


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#71

Anthracene

Concen: 8.48 ng

RT: 11.45 min Scan# 819

Delta R.T. -0.05 min

Lab File: BF086349.D

Acq: 21 Apr 2016 17:50

Instrument :

BNA_F

ClientSampleId :

RODNEY-AVE-PS(0-2)DDL

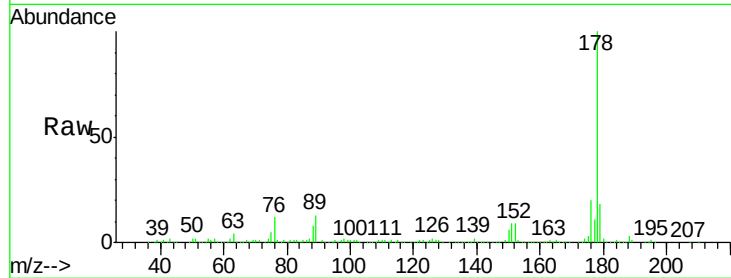
Tot Ion:178 Resp: 321537

Ion Ratio Lower Upper

178 100

176 19.5 16.2 24.4

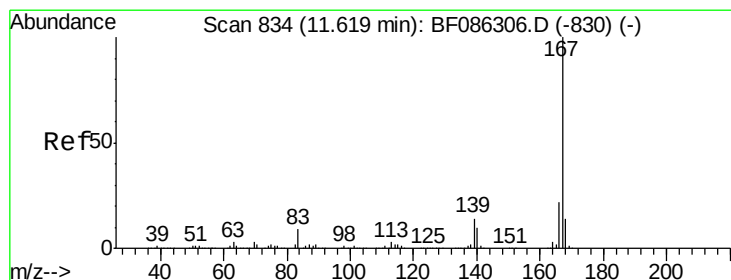
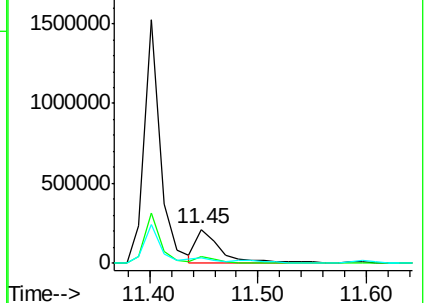
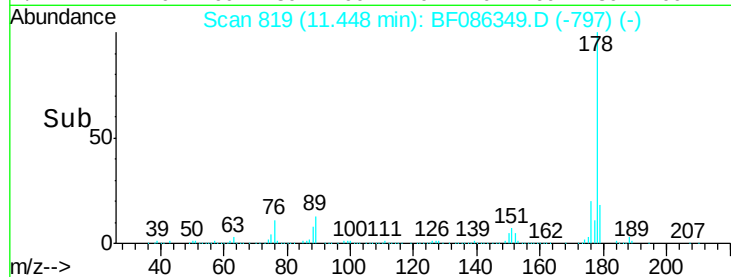
179 17.9 13.2 19.8



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: 5.84 ng

RT: 11.61 min Scan# 833

Delta R.T. -0.03 min

Lab File: BF086349.D

Acq: 21 Apr 2016 17:50

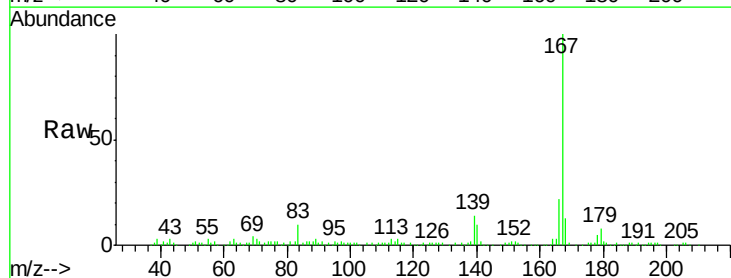
Tgt Ion:167 Resp: 209548

Ion Ratio Lower Upper

167 100

166 21.8 18.3 27.5

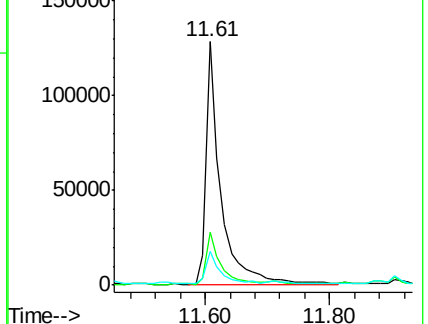
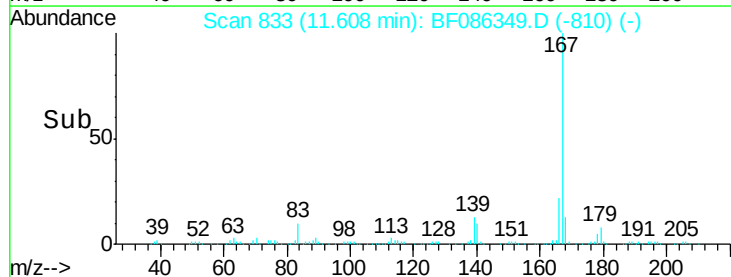
139 13.9 12.3 18.5

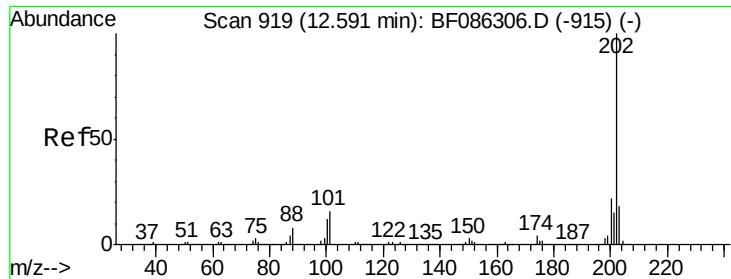


Abundance Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E

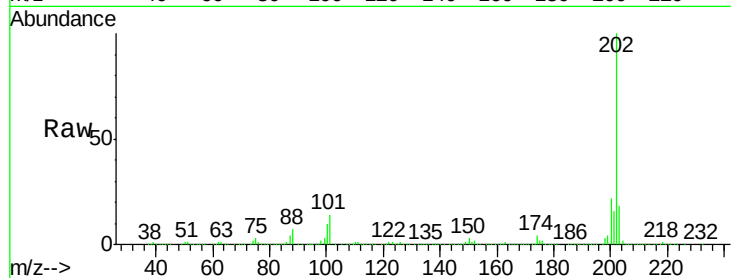




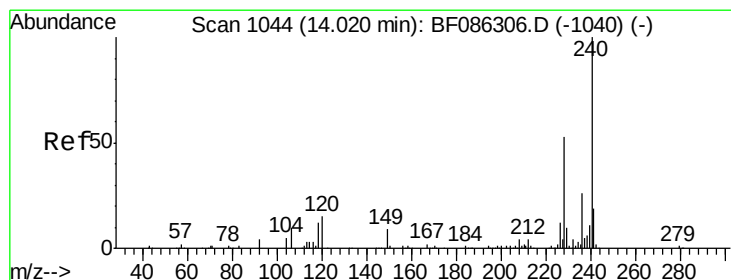
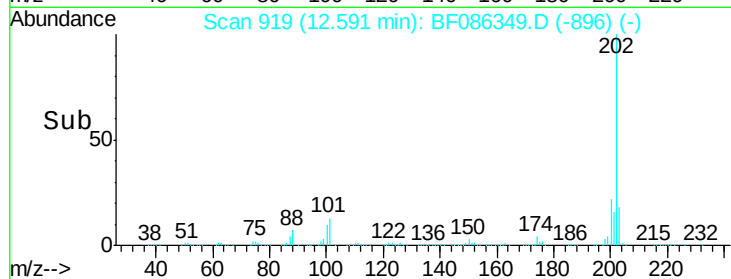
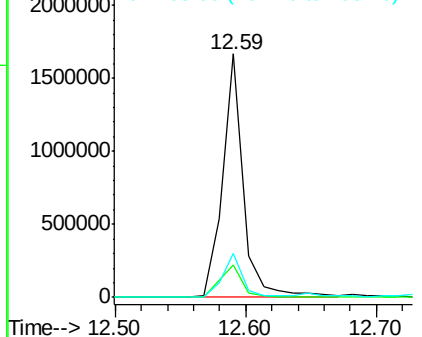
#74
Fluoranthene
Concen: 56.32 ng
RT: 12.59 min Scan# 919
Delta R.T. -0.03 min
Lab File: BF086349.D
Acq: 21 Apr 2016 17:50

Instrument :
BNA_F
ClientSampleId :
RODNEY-AVE-PS(0-2)DDL

Tot Ion:202 Resp: 1848010
Ion Ratio Lower Upper
202 100
101 13.5 0.0 35.2
203 18.0 0.0 38.2

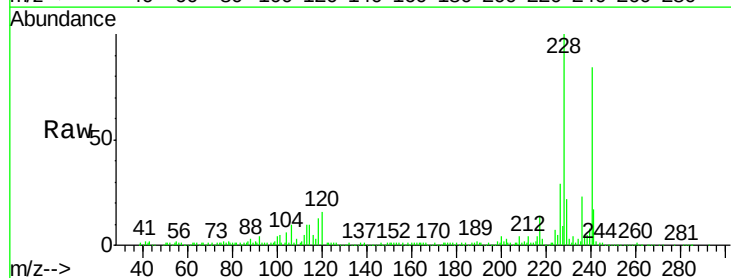


Abundance Ion 202.00 (201.70 to 202.70): E
Ion 101.00 (100.70 to 101.70): E
Ion 203.00 (202.70 to 203.70): E

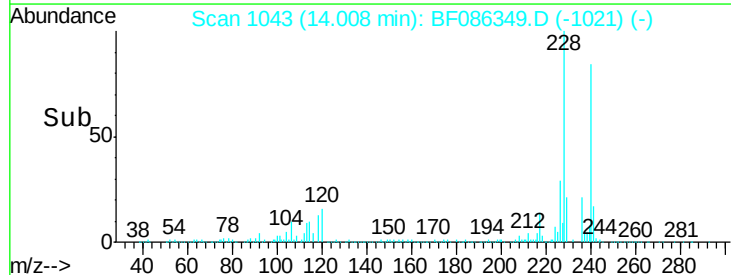
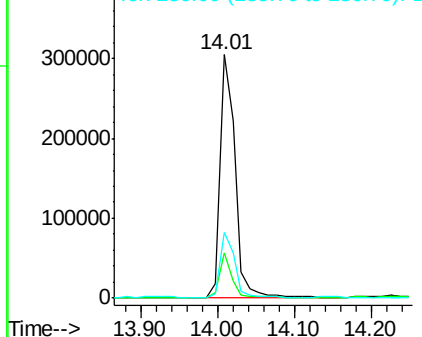


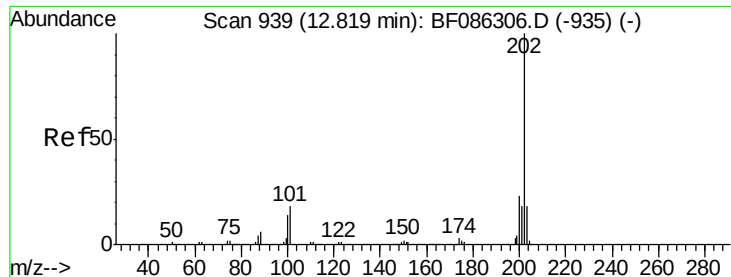
#75
Chrysene-d12
Concen: 20.00 ng
RT: 14.01 min Scan# 1043
Delta R.T. -0.05 min
Lab File: BF086349.D
Acq: 21 Apr 2016 17:50

Tgt Ion:240 Resp: 416795
Ion Ratio Lower Upper
240 100
120 18.7 9.3 13.9#
236 27.1 21.1 31.7



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: 50.74 ng

RT: 12.82 min Scan# 939

Delta R.T. -0.03 min

Lab File: BF086349.D

Acq: 21 Apr 2016 17:50

Instrument :

BNA_F

ClientSampleId :

RODNEY-AVE-PS(0-2)DDL

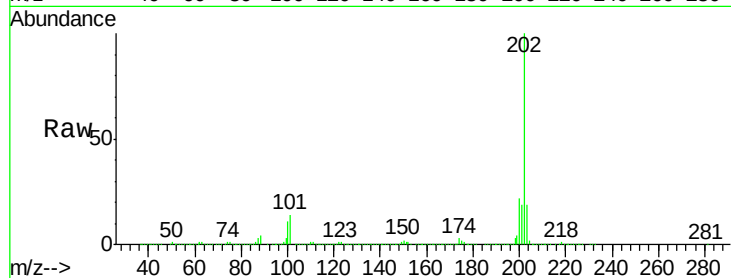
Tot Ion:202 Resp: 1568682

Ion Ratio Lower Upper

202 100

200 22.4 18.3 27.5

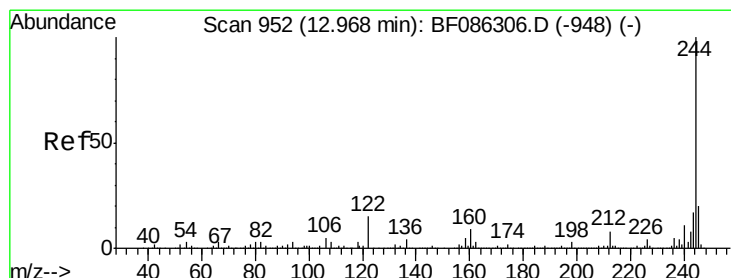
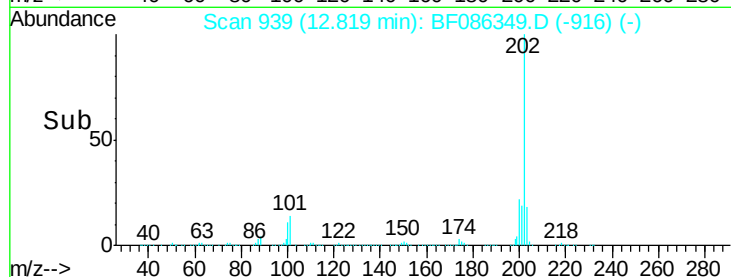
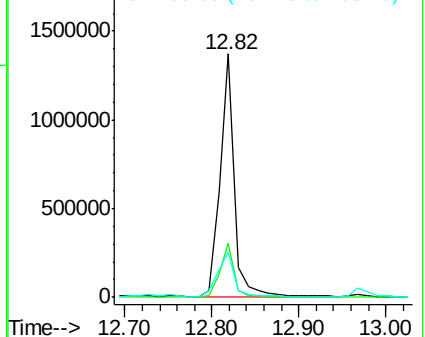
203 18.5 14.9 22.3



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: 42.58 ng

RT: 12.96 min Scan# 951

Delta R.T. -0.05 min

Lab File: BF086349.D

Acq: 21 Apr 2016 17:50

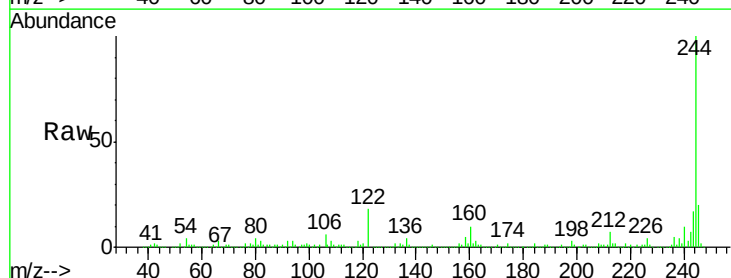
Tgt Ion:244 Resp: 745604

Ion Ratio Lower Upper

244 100

212 7.4 6.4 9.6

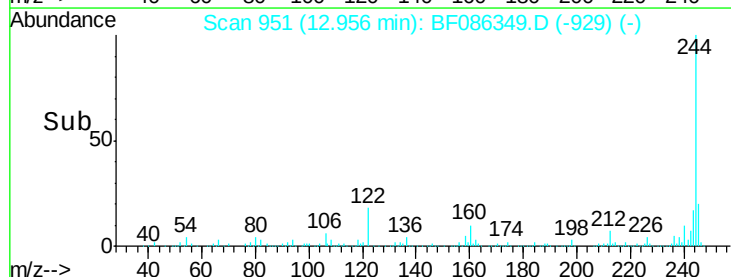
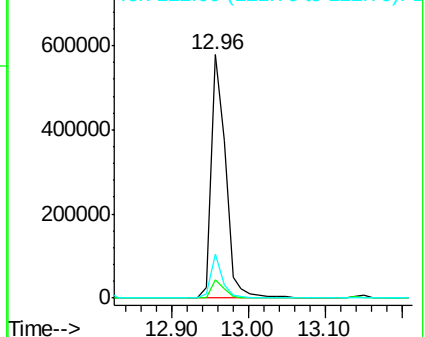
122 17.9 11.7 17.5#

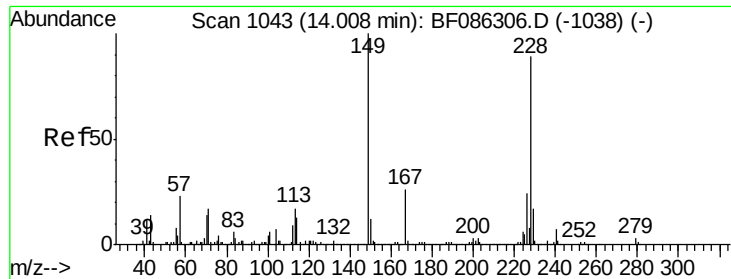


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#80

Benzo(a)anthracene

Concen: 31.20 ng

RT: 14.00 min Scan# 1042

Delta R.T. -0.05 min

Lab File: BF086349.D

Acq: 21 Apr 2016 17:50

Instrument :

BNA_F

ClientSampleId :

RODNEY-AVE-PS(0-2)DDL

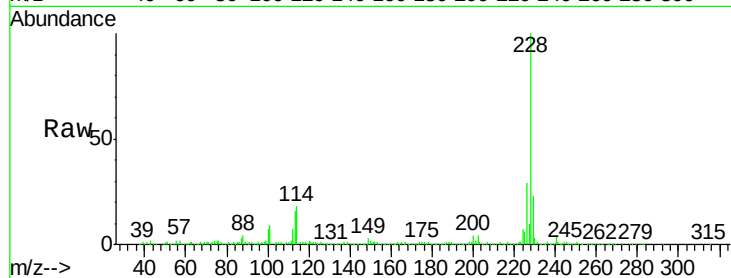
Tot Ion:228 Resp: 685000

Ion Ratio Lower Upper

228 100

226 29.3 22.5 33.7

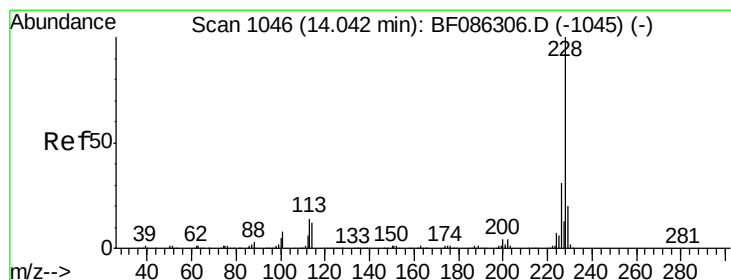
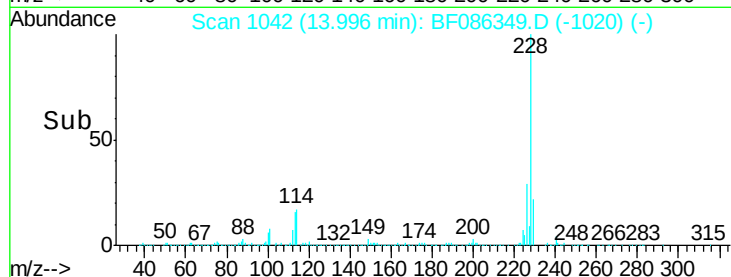
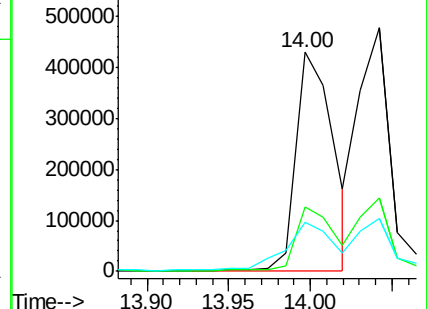
229 22.7 16.2 24.2



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: 28.09 ng

RT: 14.04 min Scan# 1046

Delta R.T. -0.03 min

Lab File: BF086349.D

Acq: 21 Apr 2016 17:50

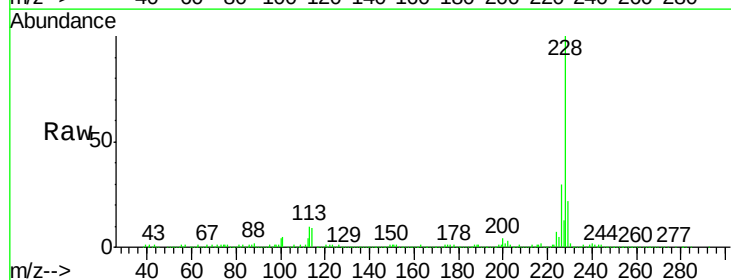
Tgt Ion:228 Resp: 666734

Ion Ratio Lower Upper

228 100

226 30.3 25.4 38.2

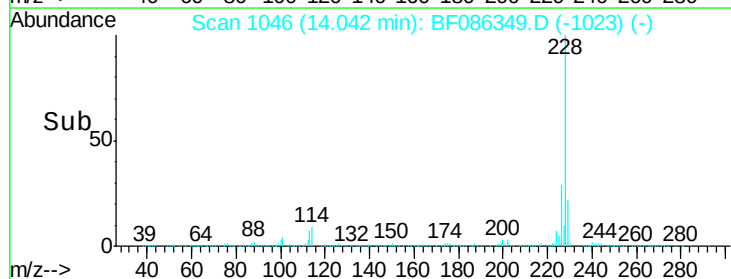
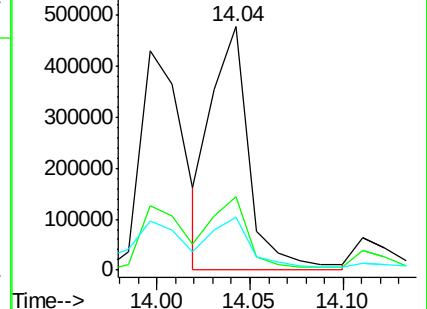
229 21.9 16.5 24.7

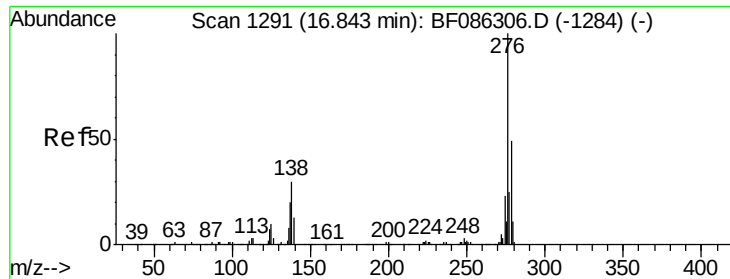


Abundance Ion 228.00 (227.70 to 228.70): E

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: 14.94 ng

RT: 16.83 min Scan# 1290

Delta R.T. -0.07 min

Lab File: BF086349.D

Acq: 21 Apr 2016 17:50

Instrument :

BNA_F

ClientSampleId :

RODNEY-AVE-PS(0-2)DDL

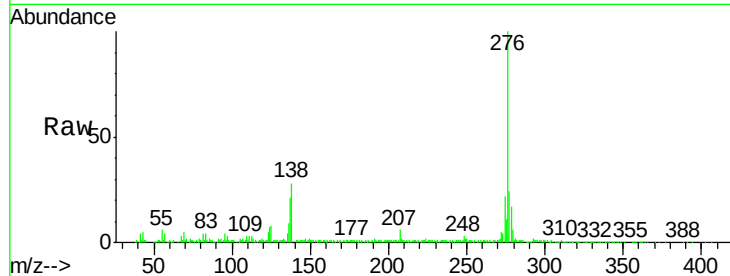
Tot Ion:276 Resp: 364511

Ion Ratio Lower Upper

276 100

138 24.1 23.8 35.6

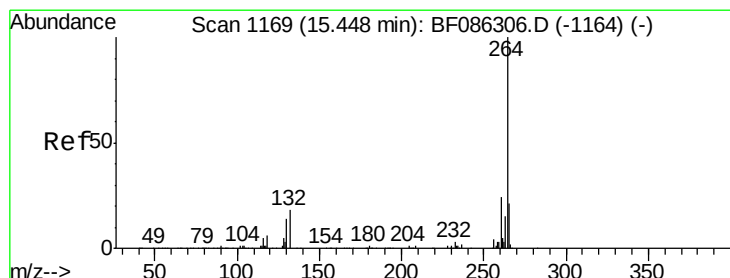
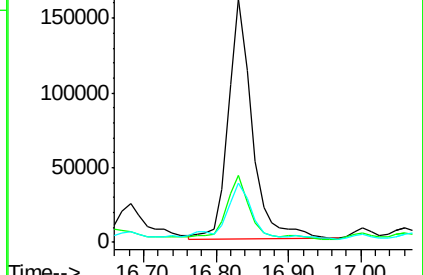
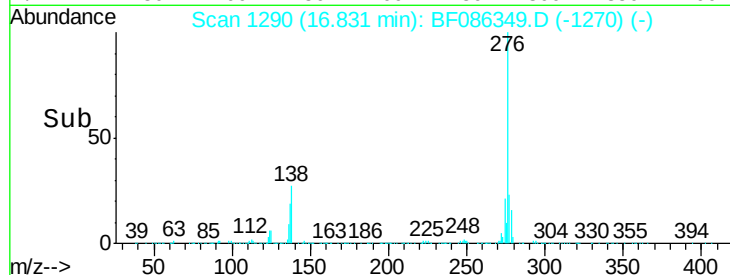
277 24.1 20.2 30.2



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

Perylene-d12

Concen: 20.00 ng

RT: 15.44 min Scan# 1168

Delta R.T. -0.05 min

Lab File: BF086349.D

Acq: 21 Apr 2016 17:50

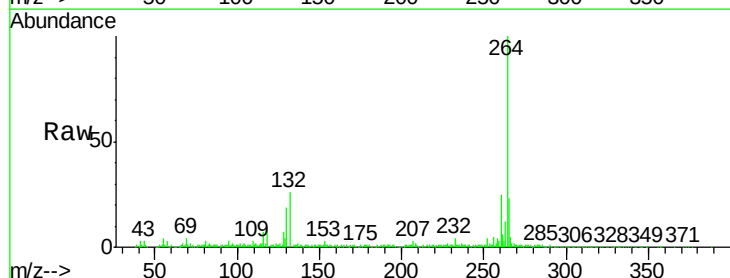
Tgt Ion:264 Resp: 401847

Ion Ratio Lower Upper

264 100

260 25.4 20.0 30.0

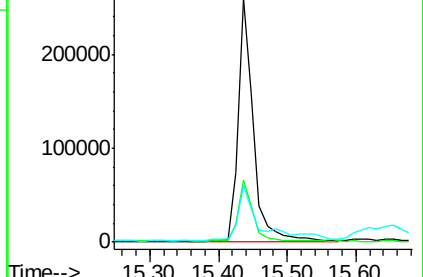
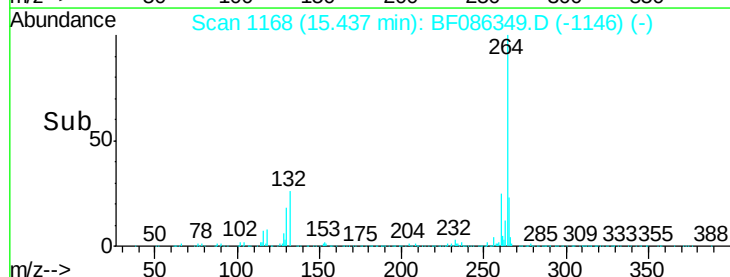
265 23.2 17.4 26.0

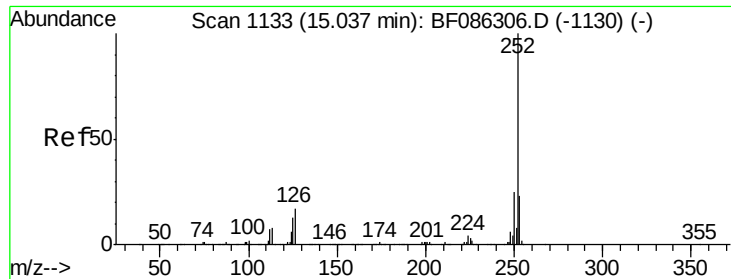


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E





#87

Benzo(b)fluoranthene

Concen: 37.31 ng m

RT: 15.04 min Scan# 1133

Delta R.T. -0.03 min

Lab File: BF086349.D

Acq: 21 Apr 2016 17:50

Instrument :

BNA_F

ClientSampleId :

RODNEY-AVE-PS(0-2)DDL

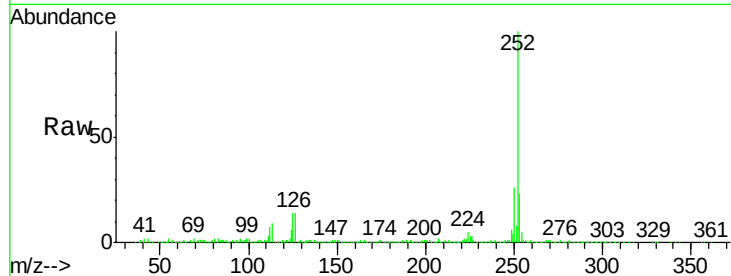
Tot Ion:252 Resp: 867106

Ion Ratio Lower Upper

252 100

253 23.4 17.7 26.5

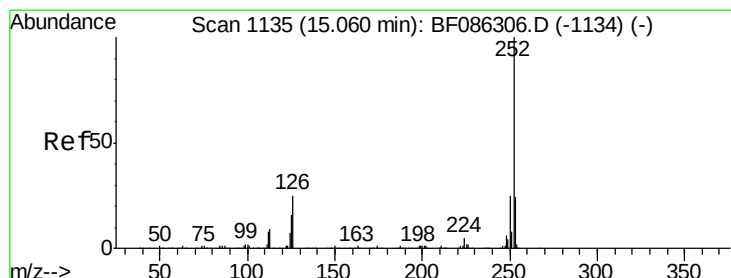
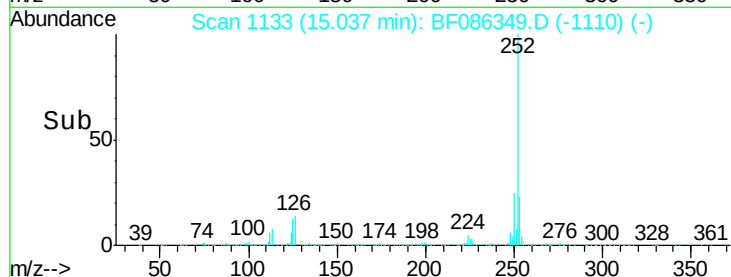
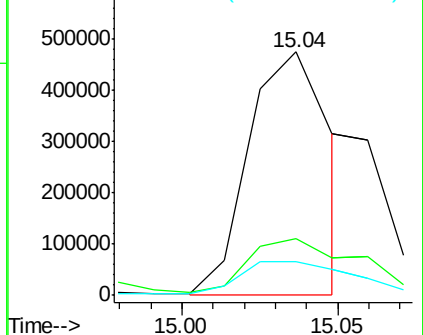
125 14.0 10.3 15.5



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: 15.51 ng m

RT: 15.05 min Scan# 1134

Delta R.T. -0.06 min

Lab File: BF086349.D

Acq: 21 Apr 2016 17:50

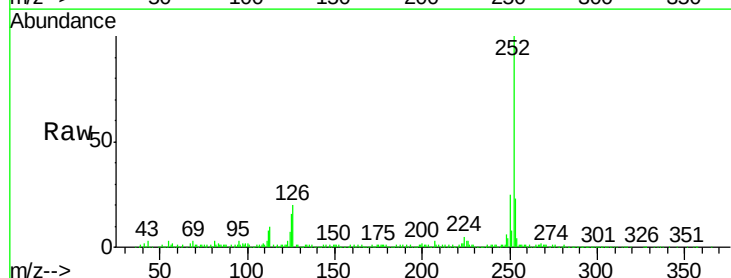
Tgt Ion:252 Resp: 303494

Ion Ratio Lower Upper

252 100

253 23.4 17.5 26.3

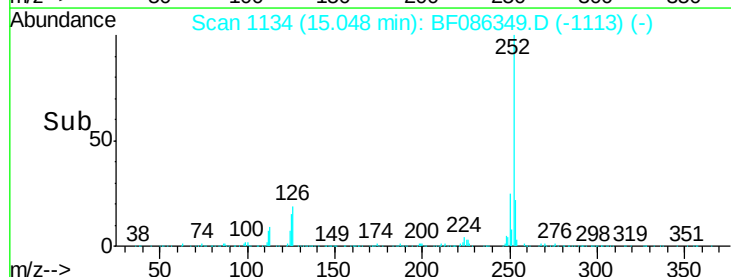
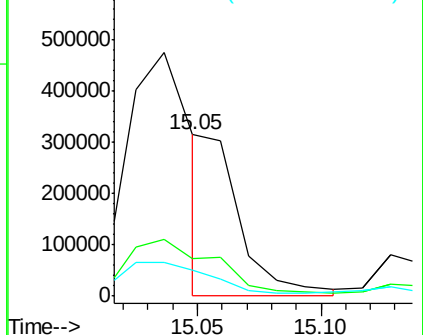
125 15.9 7.8 11.6#

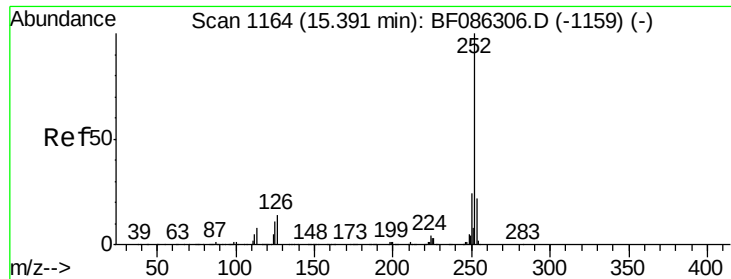


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E

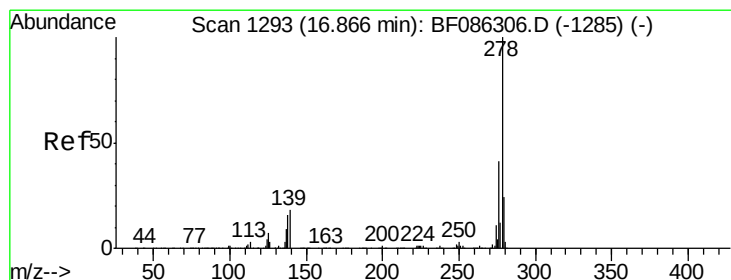
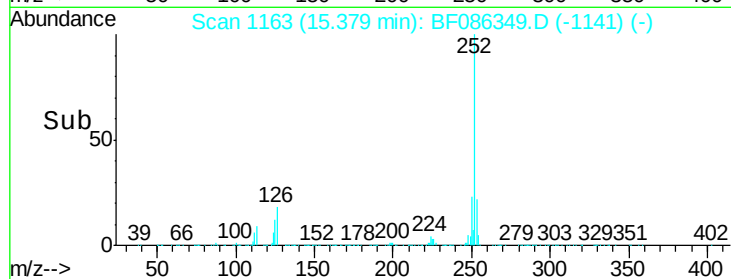
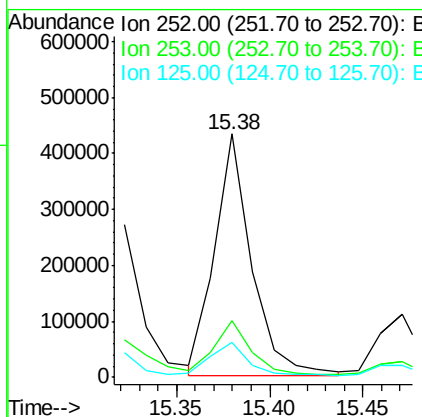
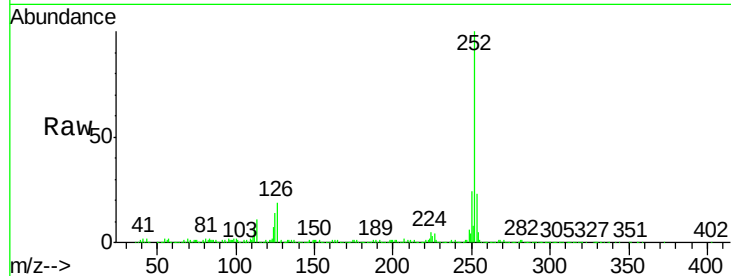




#89
Benzo(a)pyrene
Concen: 28.06 ng
RT: 15.38 min Scan# 1163
Delta R.T. -0.05 min
Lab File: BF086349.D
Acq: 21 Apr 2016 17:50

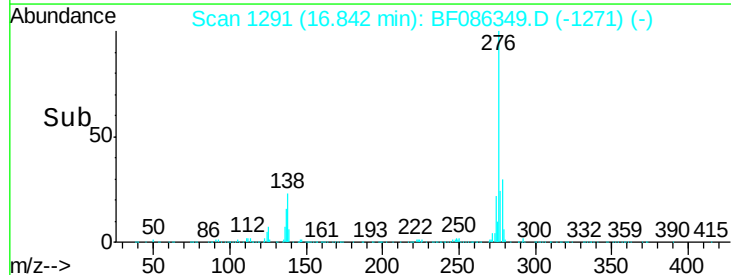
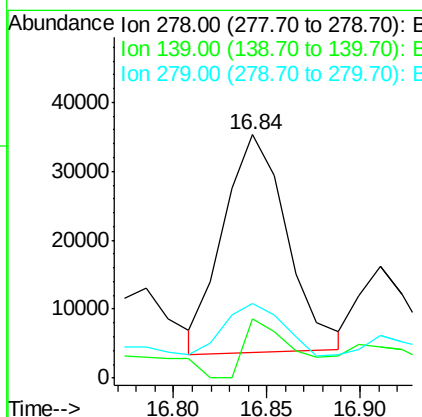
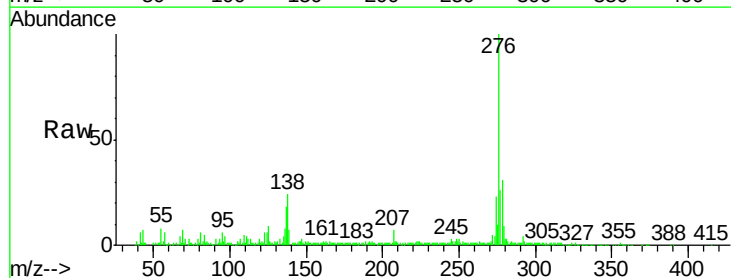
Instrument :
BNA_F
ClientSampleId :
RODNEY-AVE-PS(0-2)DDL

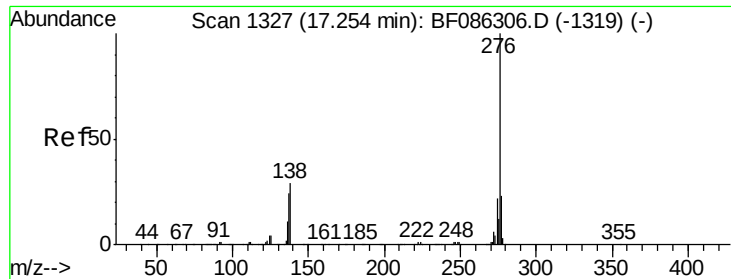
Tot Ion:252 Resp: 601098
Ion Ratio Lower Upper
252 100
253 23.2 17.8 26.8
125 14.3 11.2 16.8



#90
Dibenzo(a,h)anthracene
Concen: 4.04 ng
RT: 16.84 min Scan# 1291
Delta R.T. -0.07 min
Lab File: BF086349.D
Acq: 21 Apr 2016 17:50

Tgt Ion:278 Resp: 75599
Ion Ratio Lower Upper
278 100
139 24.4 15.3 22.9#
279 30.8 19.1 28.7#

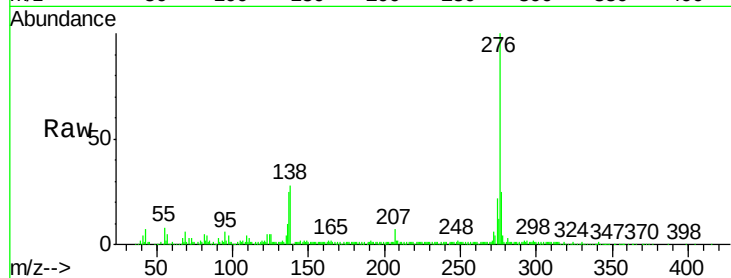




#91
 Benzo(a,h,i)perylene
 Concen: 17.88 ng
 RT: 17.25 min Scan# 1327
 Delta R.T. -0.07 min
 Lab File: BF086349.D
 Acq: 21 Apr 2016 17:50

Instrument :
 BNA_F
 ClientSampleId :
 RODNEY-AVE-PS(0-2)DDL

Tot Ion	Ratio	Lower	Upper
276	100		
277	25.0	19.0	28.6
138	27.8	19.6	29.4



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

