

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF020916\
 Data File : BF084981.D
 Acq On : 10 Feb 2016 4:46
 Operator : SJ/IZ
 Sample : H1360-01RE
 Misc :
 ALS Vial : 42 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SW007

Quant Time: Feb 10 05:48:57 2016
 Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF020116.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Feb 03 14:16:01 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.64	152	156726	20.00	ng	-0.05
21) Naphthalene-d8	7.92	136	568471	20.00	ng	-0.06
38) Acenaphthene-d10	9.66	164	222355	20.00	ng	-0.07
63) Phenanthrene-d10	11.15	188	358209	20.00	ng	-0.06
75) Chrysene-d12	13.80	240	255495	20.00	ng	-0.03
86) Perylene-d12	15.16	264	211020	20.00	ng	-0.05

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.22	112	1051966	104.55	ng	-0.06
7) Phenol-d6	6.29	99	1345459	107.86	ng	-0.05
23) Nitrobenzene-d5	7.21	82	843453	83.58	ng	-0.06
41) 2,4,6-Tribromophenol	10.46	330	236675	102.04	ng	-0.06
44) 2-Fluorobiphenyl	9.00	172	1113473	83.98	ng	-0.06
78) Terphenyl-d14	12.75	244	643296	57.06	ng	-0.05

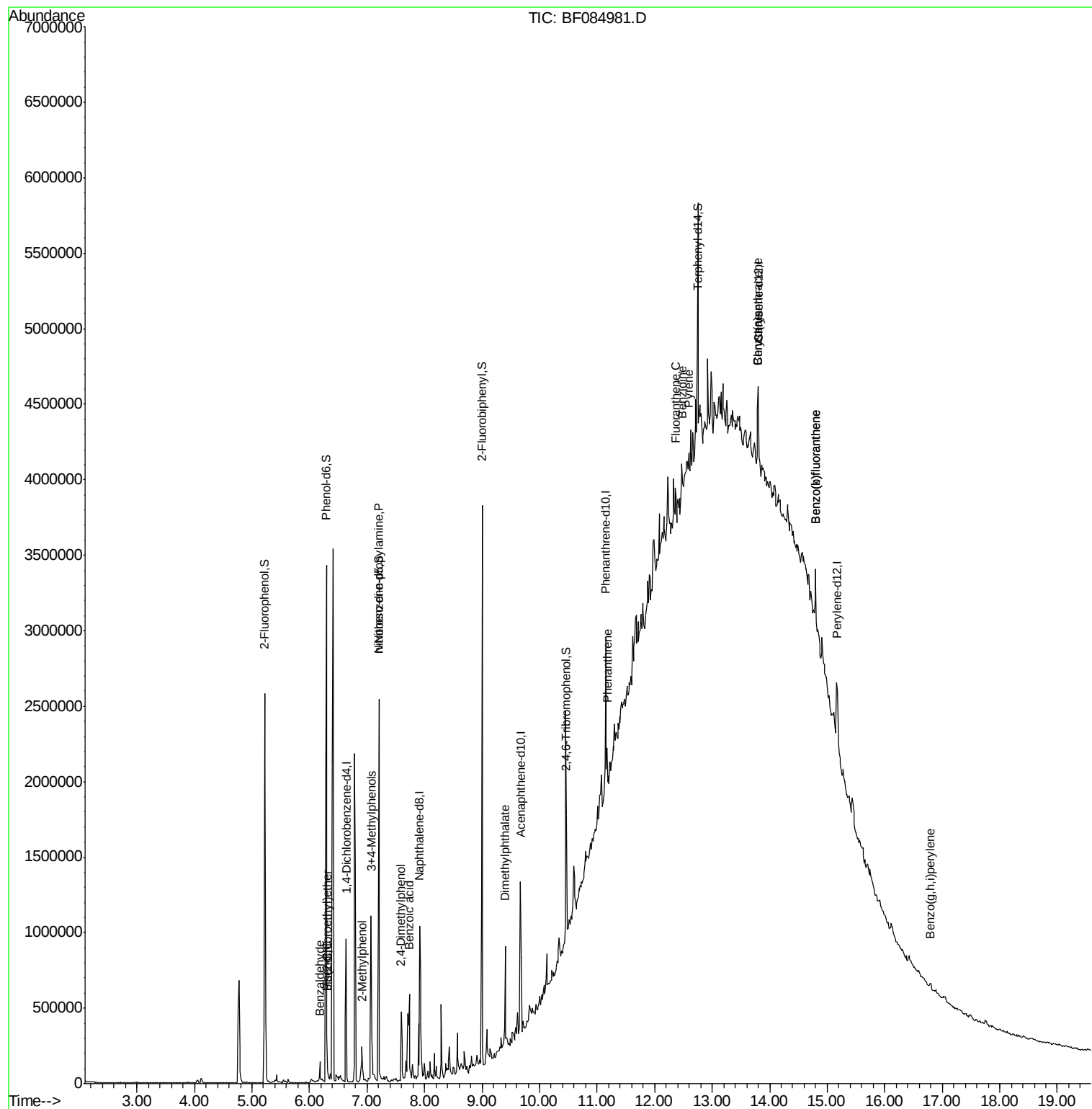
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
9) Benzaldehyde	6.18	77	38268	5.20	ng	95
10) Phenol	6.30	94	75010	5.37	ng	89
11) bis(2-Chloroethyl)ether	6.30	93	21930	2.01	ng	80
17) 2-Methylphenol	6.91	107	40606	4.51	ng	98
19) n-Nitroso-di-n-propylamine	7.21	70	118986	15.22	ng	# 75
20) 3+4-Methylphenols	7.07	107	319479	28.58	ng	90
27) 2,4-Dimethylphenol	7.60	122	109524	11.81	ng	92
32) Benzoic acid	7.73	122	204020	34.41	ng	# 14
49) Dimethylphthalate	9.40	163	252032	14.88	ng	# 91
60) 4-Chlorophenyl-phenylether	10.22	204	1342	Below Cal		# 19
70) Phenanthrene	11.17	178	86194	4.34	ng	# 88
74) Fluoranthene	12.36	202	75928	3.78	ng	72
76) Benzidine	12.48	184	2882	7.10	ng	# 1
77) Pyrene	12.59	202	86056	4.40	ng	# 73
80) Benzo(a)anthracene	13.79	228	39842	2.51	ng	# 51
82) Chrysene	13.79	228	39842	2.59	ng	# 57
87) Benzo(b)fluoranthene	14.80	252	40273	2.84	ng	# 12
88) Benzo(k)fluoranthene	14.80	252	40273	3.44	ng	# 11
91) Benzo(g,h,i)perylene	16.80	276	23818	2.33	ng	# 83

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

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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.64 min Scan# 398

Delta R.T. -0.05 min

Lab File: BF084981.D

Acq: 10 Feb 2016 4:46

Instrument :

BNA_F

ClientSampleId :

SW007

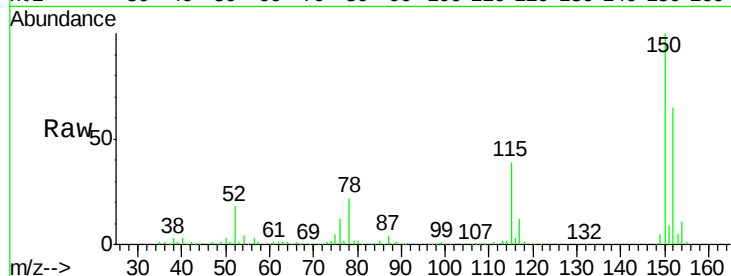
Tgt Ion:152 Resp: 156726

Ion Ratio Lower Upper

152 100

150 153.1 123.0 184.4

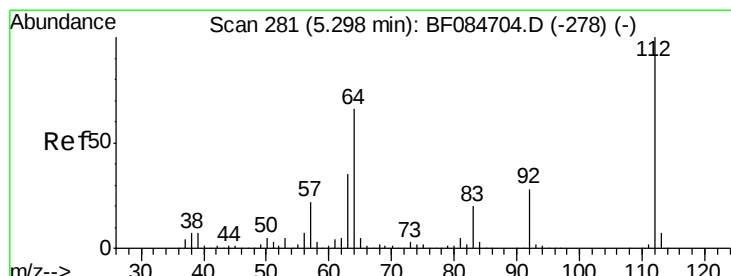
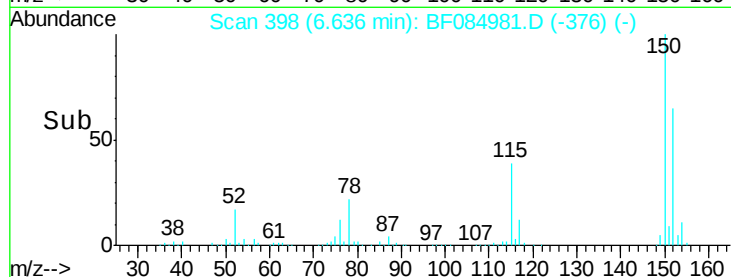
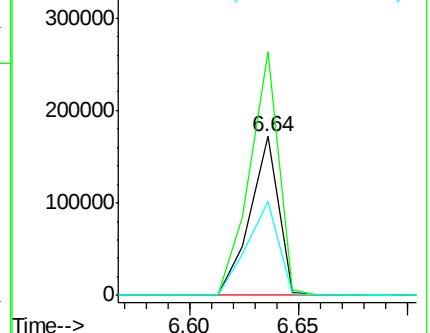
115 59.4 51.4 77.2



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: 104.55 ng

RT: 5.22 min Scan# 274

Delta R.T. -0.06 min

Lab File: BF084981.D

Acq: 10 Feb 2016 4:46

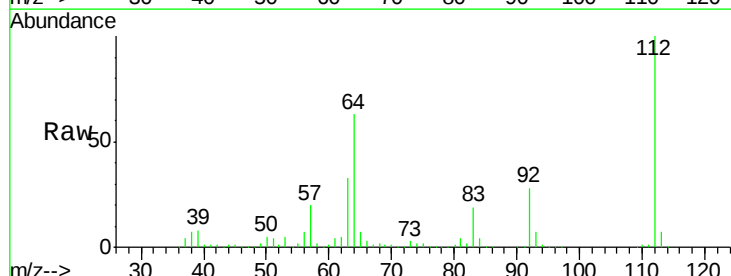
Tgt Ion:112 Resp: 1051966

Ion Ratio Lower Upper

112 100

64 62.8 36.6 55.0#

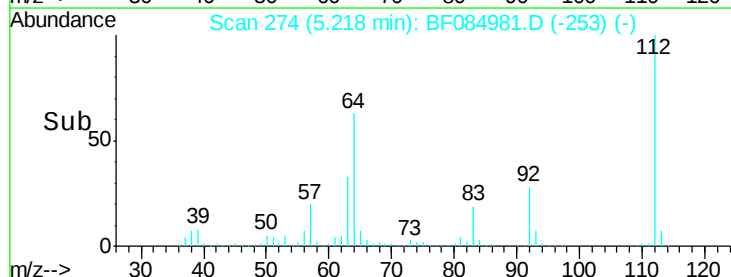
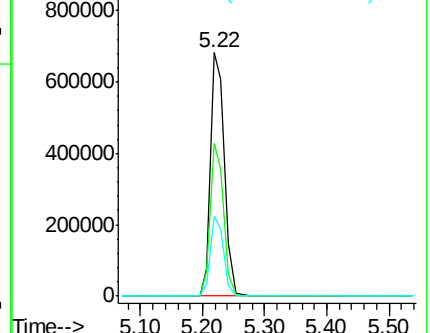
63 32.9 19.4 29.0#



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: 107.86 ng

RT: 6.29 min Scan# 368

Delta R.T. -0.05 min

Lab File: BF084981.D

Acq: 10 Feb 2016 4:46

Instrument :

BNA_F

ClientSampleId :

SW007

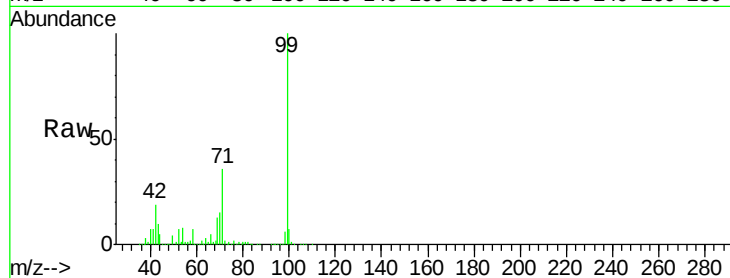
Tgt Ion: 99 Resp: 1345459

Ion Ratio Lower Upper

99 100

42 19.1 12.8 19.2

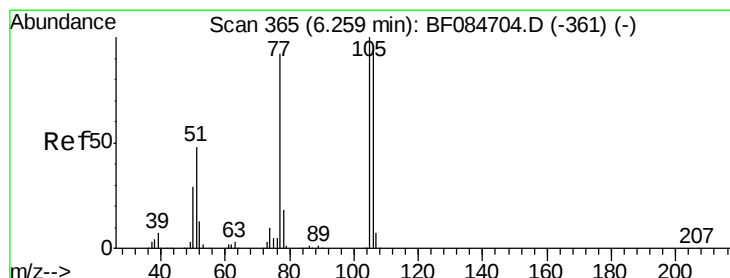
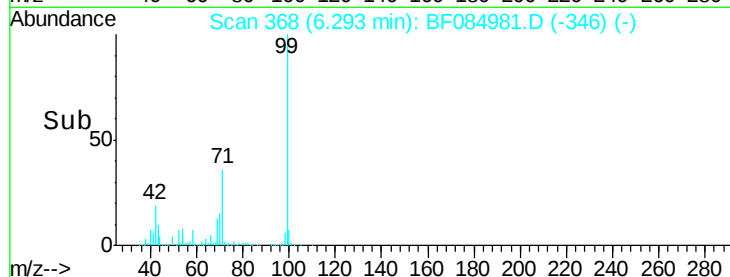
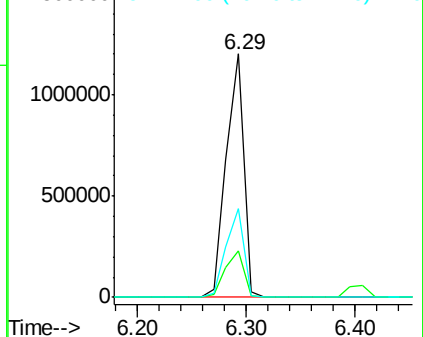
71 36.2 30.9 46.3



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



#9

Benzaldehyde

Concen: 5.20 ng

RT: 6.18 min Scan# 358

Delta R.T. -0.06 min

Lab File: BF084981.D

Acq: 10 Feb 2016 4:46

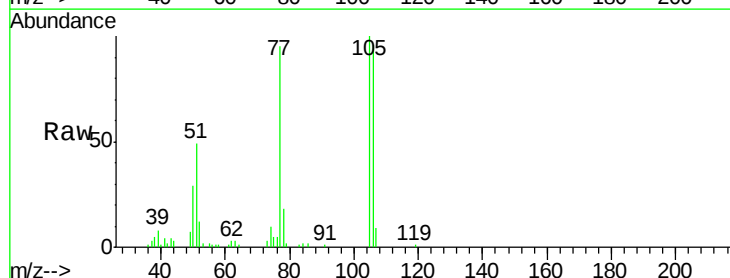
Tgt Ion: 77 Resp: 38268

Ion Ratio Lower Upper

77 100

105 105.8 83.0 123.0

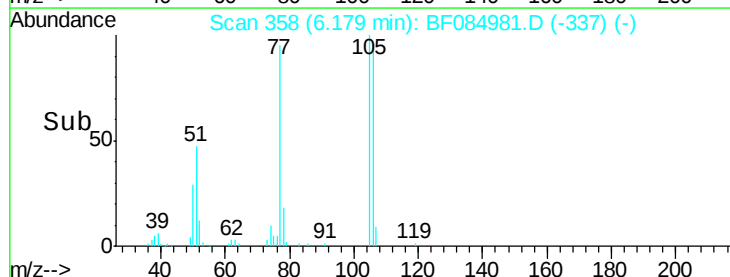
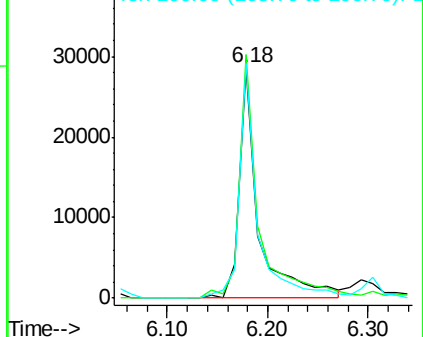
106 101.7 74.6 114.6

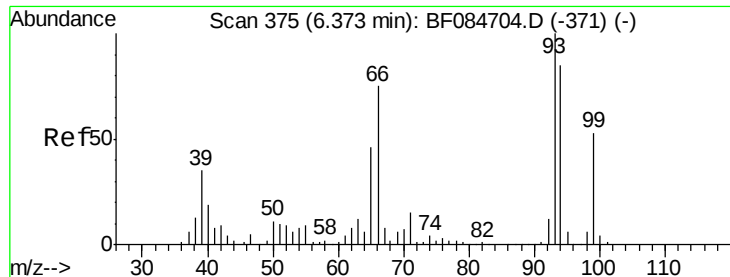


Abundance Ion 77.00 (76.70 to 77.70): BF0

Ion 105.00 (104.70 to 105.70): E

Ion 106.00 (105.70 to 106.70): E





#10

Phenol

Concen: 5.37 ng

RT: 6.30 min Scan# 369

Delta R.T. -0.05 min

Lab File: BF084981.D

Acq: 10 Feb 2016 4:46

Instrument :

BNA_F

ClientSampleId :

SW007

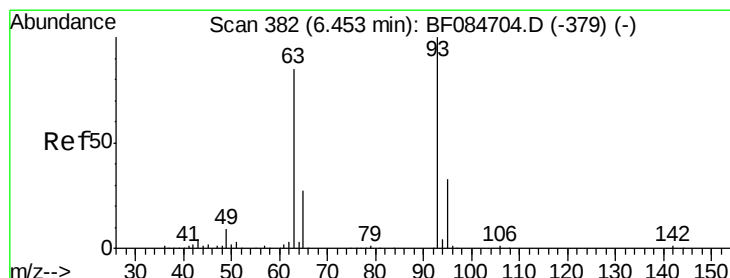
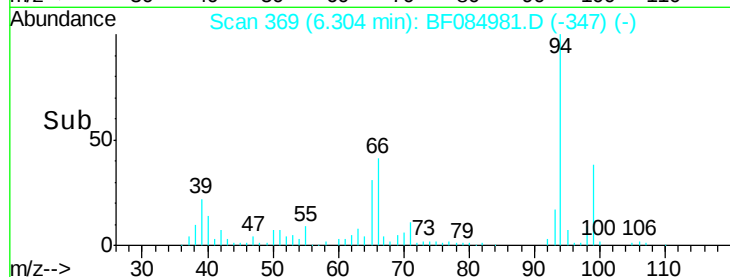
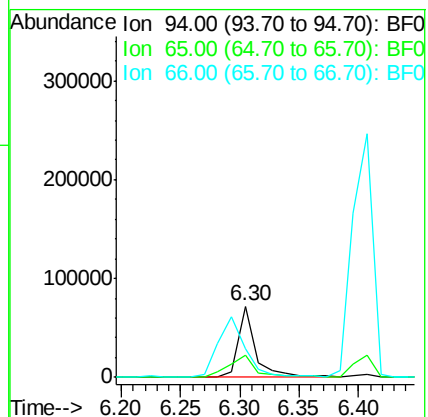
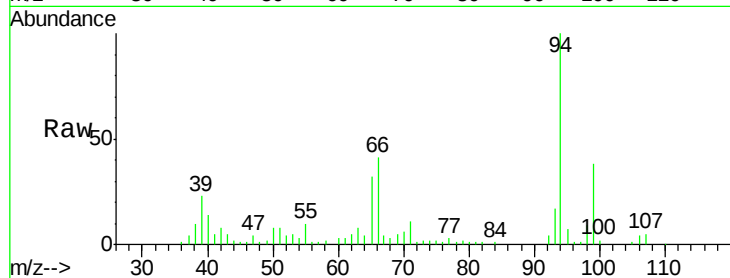
Tgt Ion: 94 Resp: 75010

Ion Ratio Lower Upper

94 100

65 31.6 12.9 52.9

66 41.1 32.7 72.7



#11

bis(2-Chloroethyl)ether

Concen: 2.01 ng

RT: 6.30 min Scan# 369

Delta R.T. -0.13 min

Lab File: BF084981.D

Acq: 10 Feb 2016 4:46

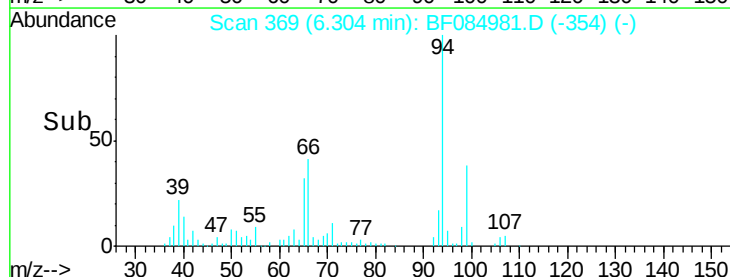
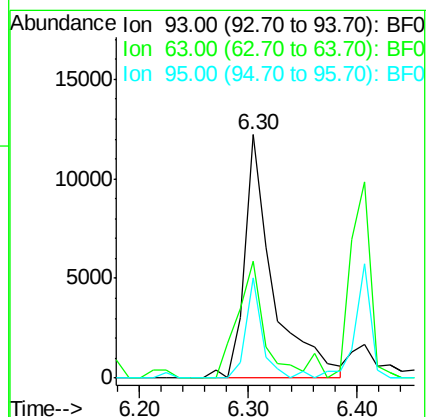
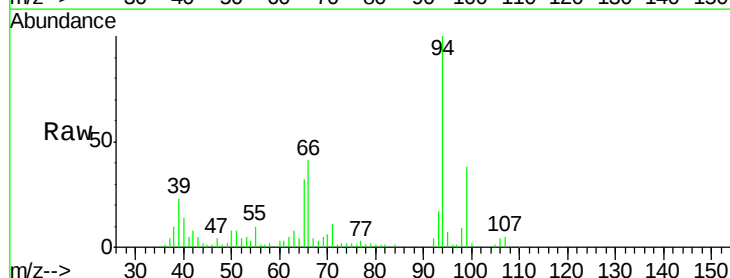
Tgt Ion: 93 Resp: 21930

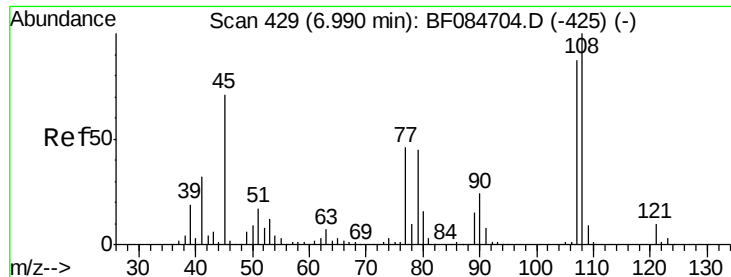
Ion Ratio Lower Upper

93 100

63 48.2 45.9 85.9

95 41.0 12.3 52.3

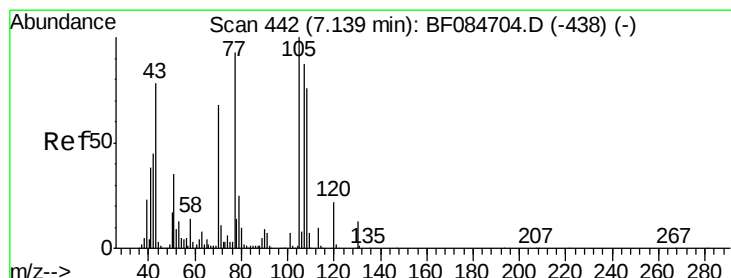
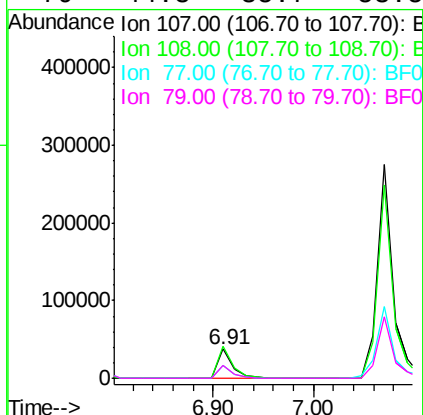
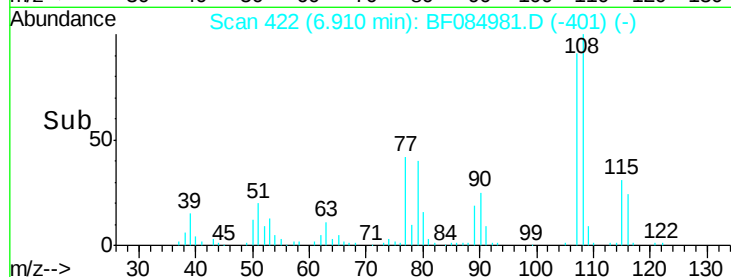
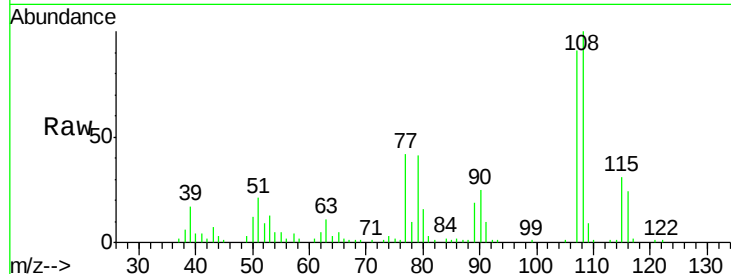




#17
2-Methylphenol
Concen: 4.51 ng
RT: 6.91 min Scan# 422
Delta R.T. -0.06 min
Lab File: BF084981.D
Acq: 10 Feb 2016 4:46

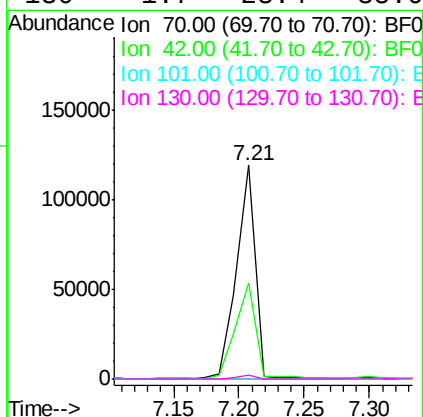
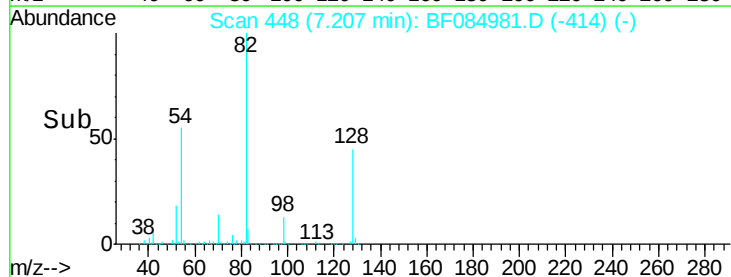
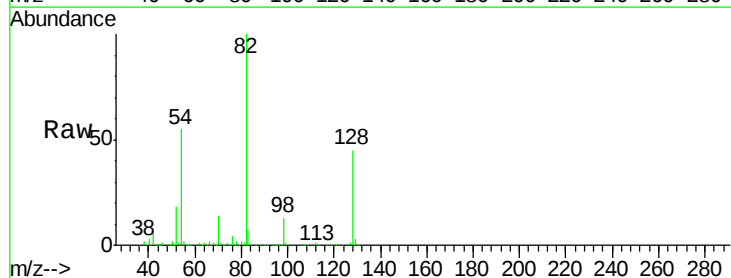
Instrument :
BNA_F
ClientSampleId :
SW007

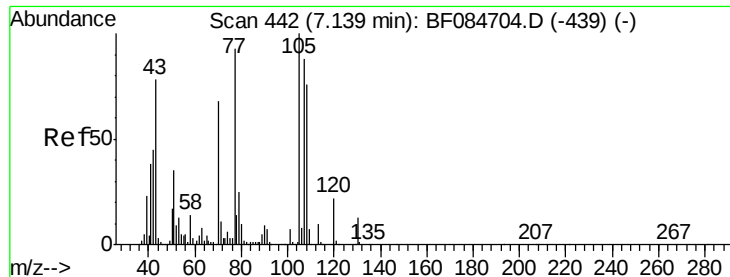
Tgt Ion	Ratio	Lower	Upper
107	100		
108	109.5	89.8	134.6
77	45.6	35.7	53.5
79	44.8	35.7	53.5



#19
n-Nitroso-di-n-propylamine
Concen: 15.22 ng
RT: 7.21 min Scan# 448
Delta R.T. 0.09 min
Lab File: BF084981.D
Acq: 10 Feb 2016 4:46

Tgt Ion	Ratio	Lower	Upper
70	100		
42	45.2	33.3	49.9
101	0.0	9.3	13.9#
130	1.7	23.4	35.0#





#20

3+4-Methylphenols

Concen: 28.58 ng

RT: 7.07 min Scan# 436

Delta R.T. -0.06 min

Lab File: BF084981.D

Acq: 10 Feb 2016 4:46

Instrument :

BNA_F

ClientSampleId :

SW007

Tgt Ion:107 Resp: 319479

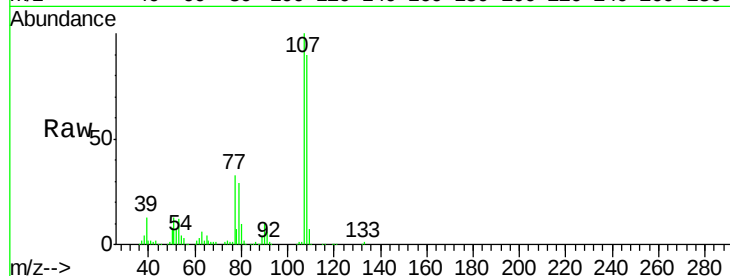
Ion Ratio Lower Upper

107 100

108 90.5 74.6 114.6

77 33.4 0.7 40.7

79 28.8 0.0 39.0

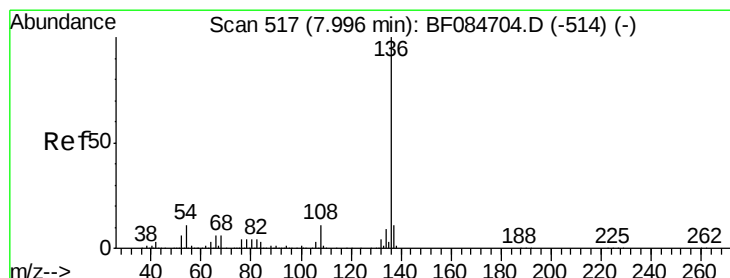
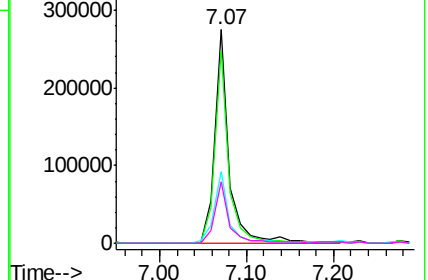
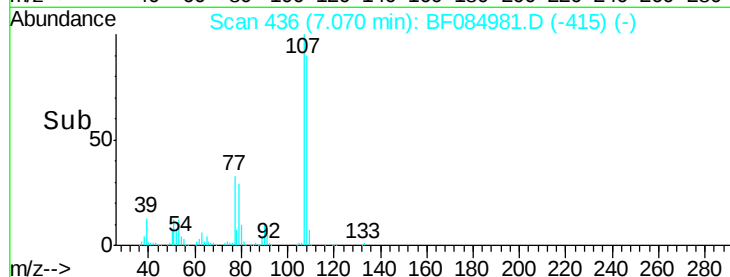


Abundance Ion 107.00 (106.70 to 107.70): E

Ion 108.00 (107.70 to 108.70): E

Ion 77.00 (76.70 to 77.70): BF0

Ion 79.00 (78.70 to 79.70): BF0



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 7.92 min Scan# 510

Delta R.T. -0.06 min

Lab File: BF084981.D

Acq: 10 Feb 2016 4:46

Tgt Ion:136 Resp: 568471

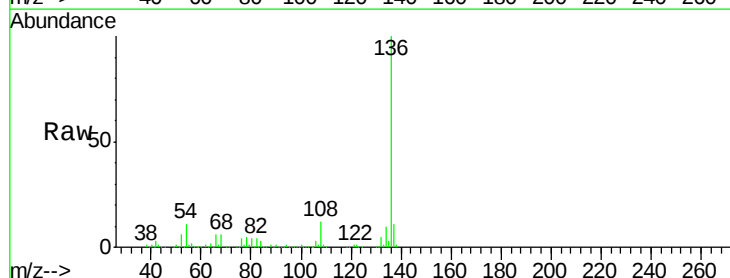
Ion Ratio Lower Upper

136 100

137 11.0 8.7 13.1

54 10.8 5.8 8.8#

68 6.1 4.2 6.2

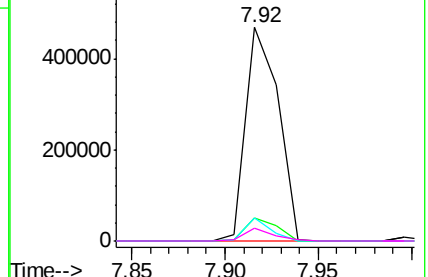
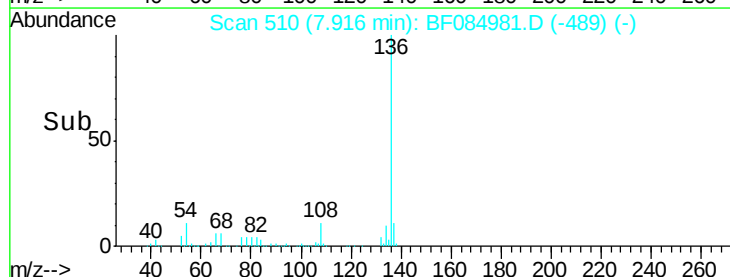


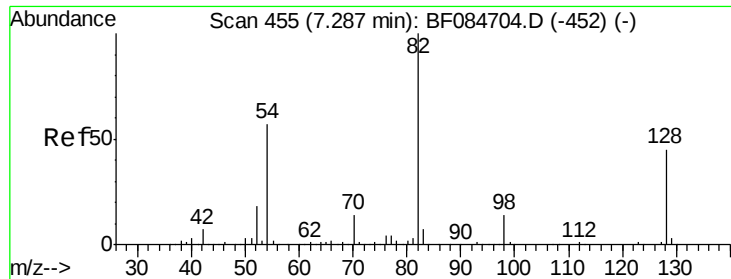
Abundance Ion 136.00 (135.70 to 136.70): E

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

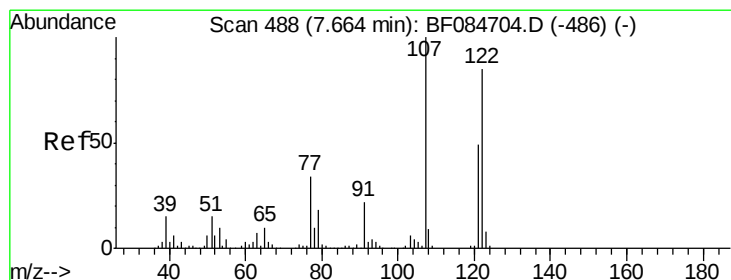
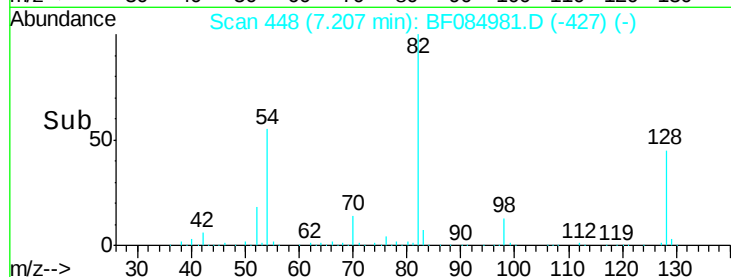
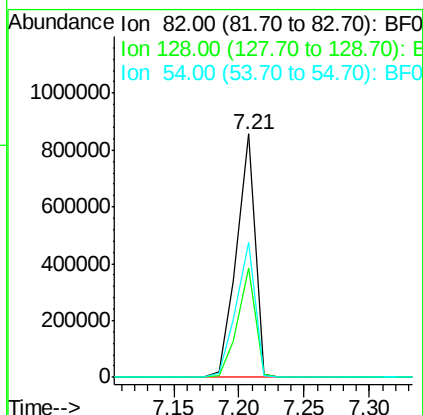
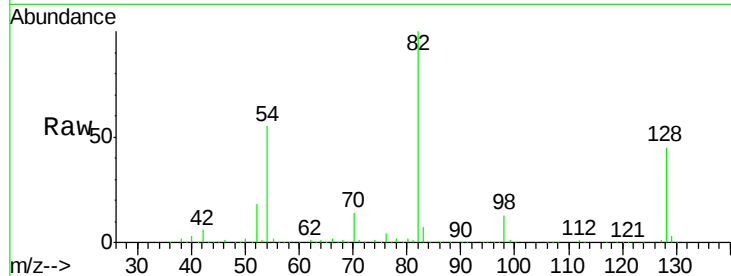




#23
 Nitrobenzene-d5
 Concen: 83.58 ng
 RT: 7.21 min Scan# 448
 Delta R.T. -0.06 min
 Lab File: BF084981.D
 Acq: 10 Feb 2016 4:46

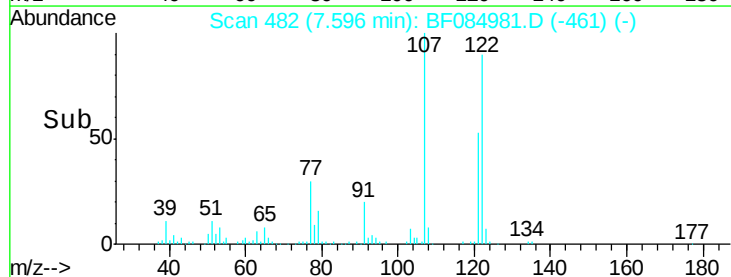
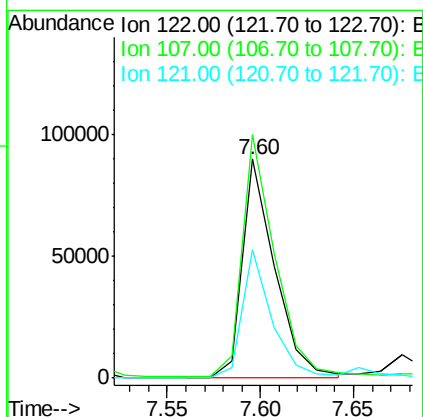
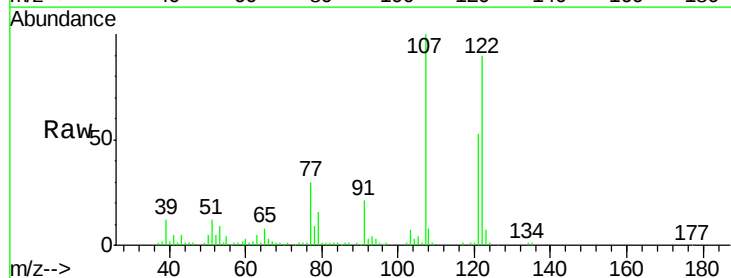
Instrument :
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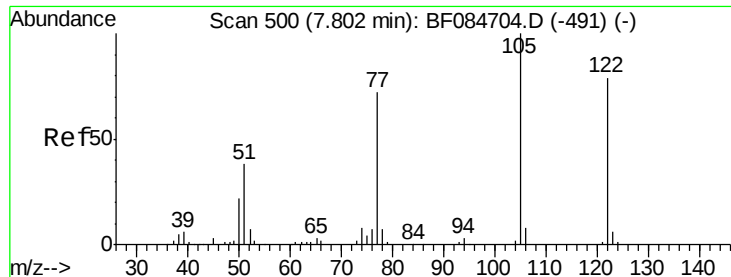
Tgt Ion: 82 Resp: 843453
 Ion Ratio Lower Upper
 82 100
 128 45.1 34.6 51.8
 54 55.5 38.4 57.6



#27
 2,4-Dimethylphenol
 Concen: 11.81 ng
 RT: 7.60 min Scan# 482
 Delta R.T. -0.06 min
 Lab File: BF084981.D
 Acq: 10 Feb 2016 4:46

Tgt Ion: 122 Resp: 109524
 Ion Ratio Lower Upper
 122 100
 107 111.1 99.1 148.7
 121 58.3 47.9 71.9

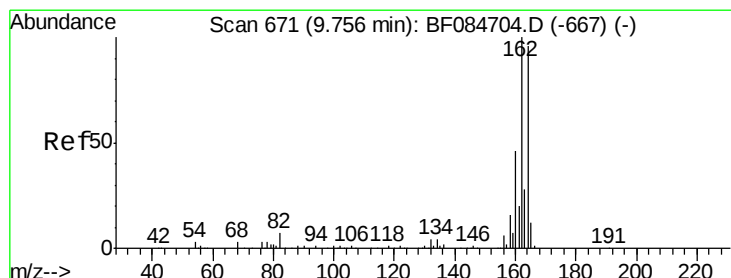
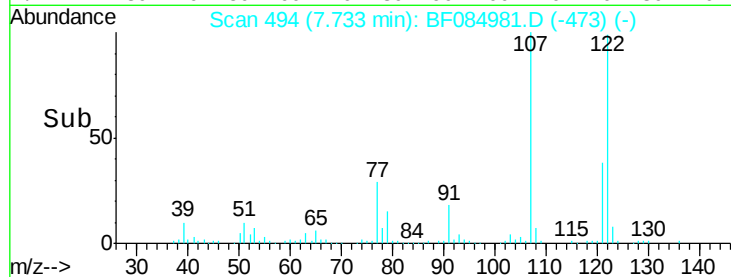
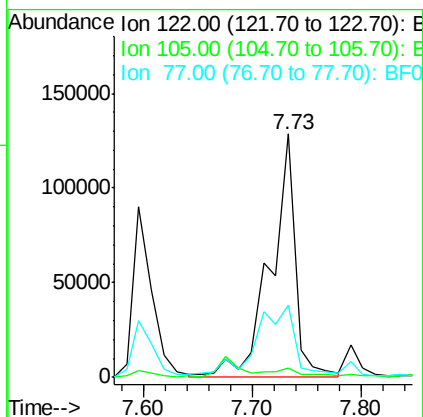
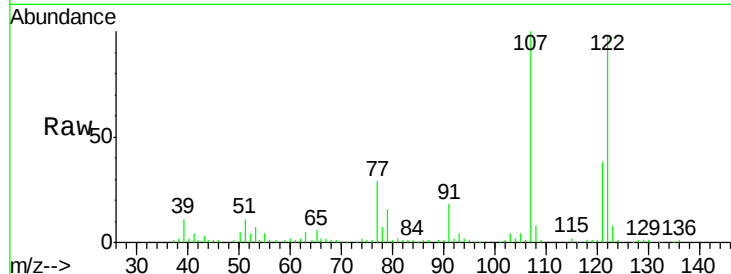




#32
Benzoic acid
Concen: 34.41 ng
RT: 7.73 min Scan# 494
Delta R.T. -0.06 min
Lab File: BF084981.D
Acq: 10 Feb 2016 4:46

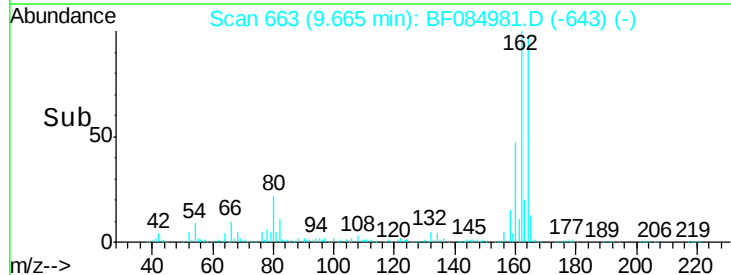
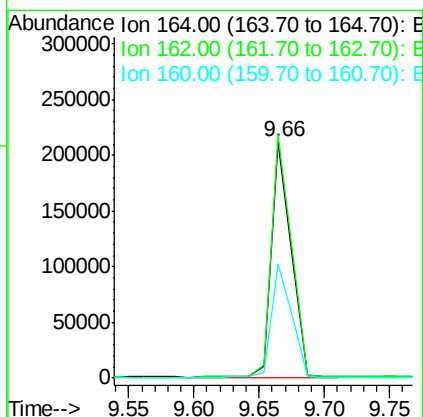
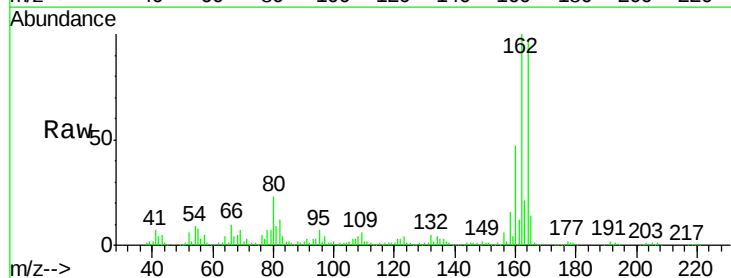
Instrument :
BNA_F
ClientSampleId :
SW007

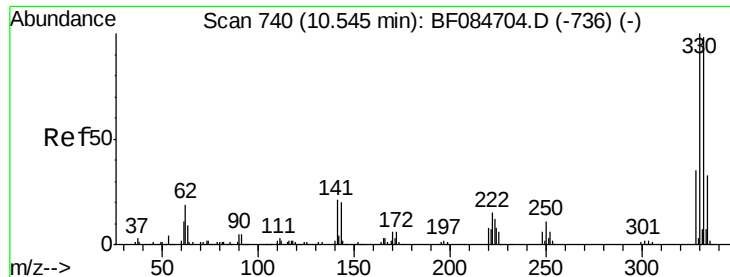
Tgt Ion:122 Resp: 204020
Ion Ratio Lower Upper
122 100
105 3.7 100.3 140.3#
77 29.6 63.5 103.5#



#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 9.66 min Scan# 663
Delta R.T. -0.07 min
Lab File: BF084981.D
Acq: 10 Feb 2016 4:46

Tgt Ion:164 Resp: 222355
Ion Ratio Lower Upper
164 100
162 103.0 85.1 127.7
160 48.3 37.5 56.3





#41

2,4,6-Tribromophenol

Concen: 102.04 ng

RT: 10.46 min Scan# 733

Delta R.T. -0.06 min

Lab File: BF084981.D

Acq: 10 Feb 2016 4:46

Instrument :

BNA_F

ClientSampleId :

SW007

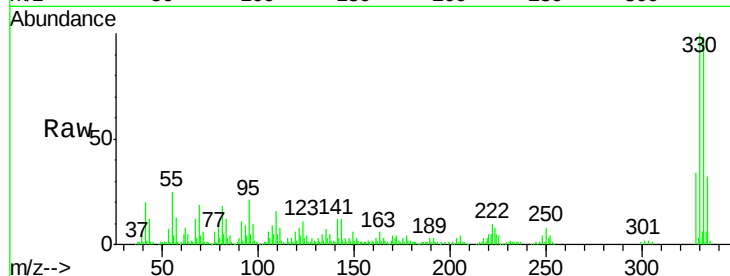
Tgt Ion:330 Resp: 236675

Ion Ratio Lower Upper

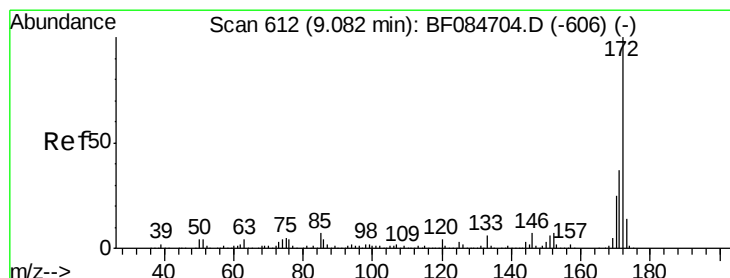
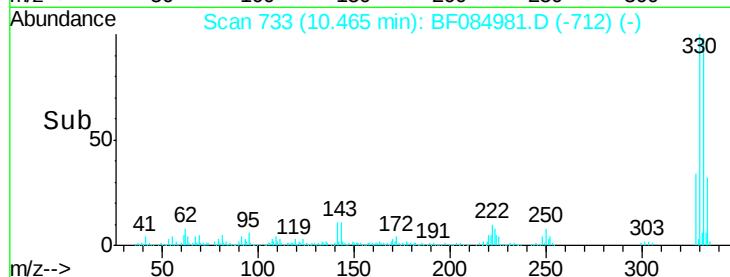
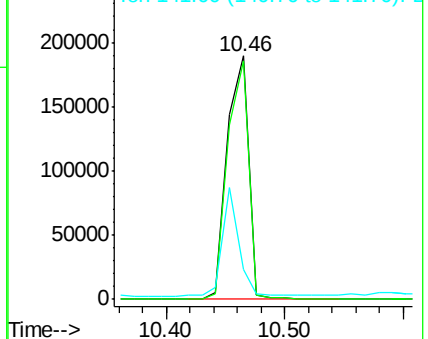
330 100

332 96.4 76.6 114.8

141 34.0 27.8 41.6



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: 83.98 ng

RT: 9.00 min Scan# 605

Delta R.T. -0.06 min

Lab File: BF084981.D

Acq: 10 Feb 2016 4:46

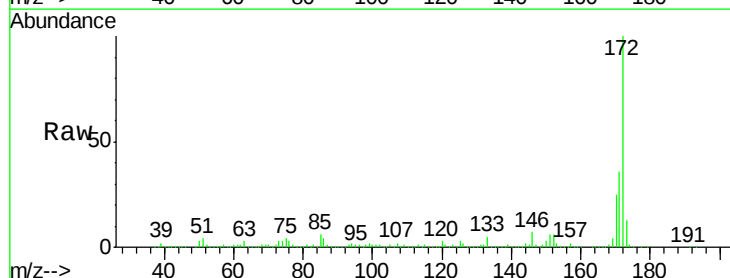
Tgt Ion:172 Resp: 1113473

Ion Ratio Lower Upper

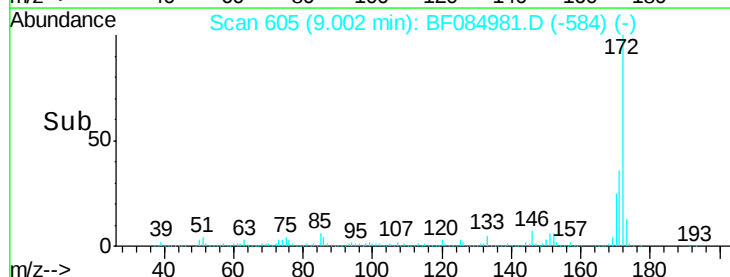
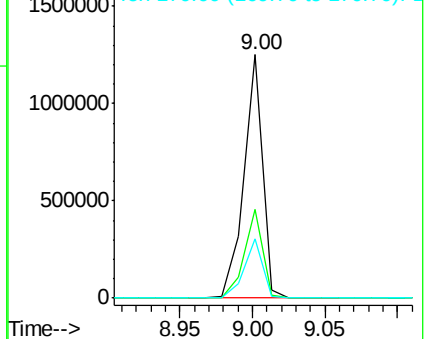
172 100

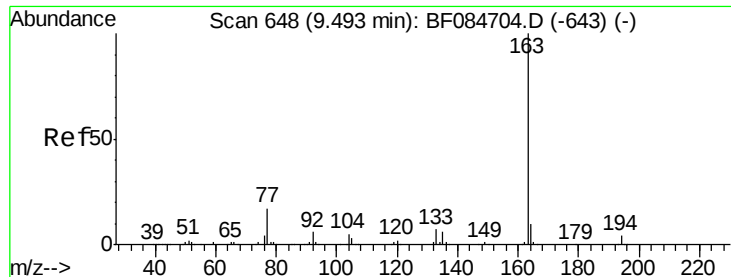
171 36.4 28.9 43.3

170 24.5 18.6 27.8



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





#49

Dimethylphthalate

Concen: 14.88 ng

RT: 9.40 min Scan# 640

Delta R.T. -0.07 min

Lab File: BF084981.D

Acq: 10 Feb 2016 4:46

Instrument :

BNA_F

ClientSampleId :

SW007

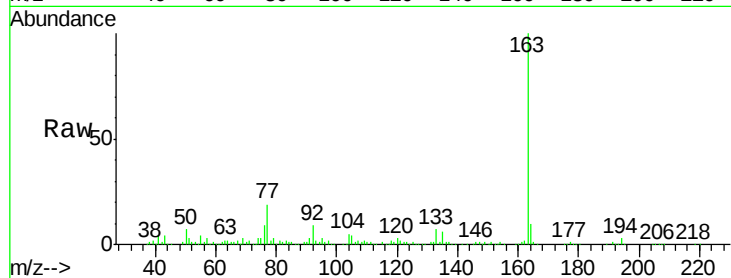
Tgt Ion:163 Resp: 252032

Ion Ratio Lower Upper

163 100

194 3.4 8.0 12.0#

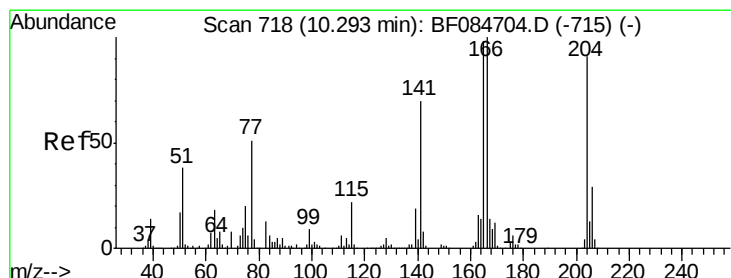
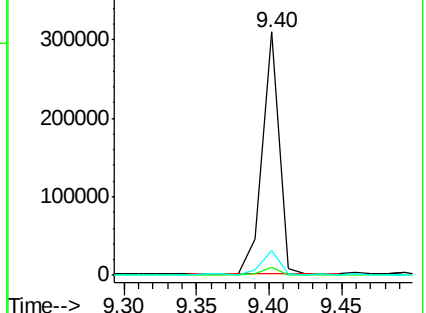
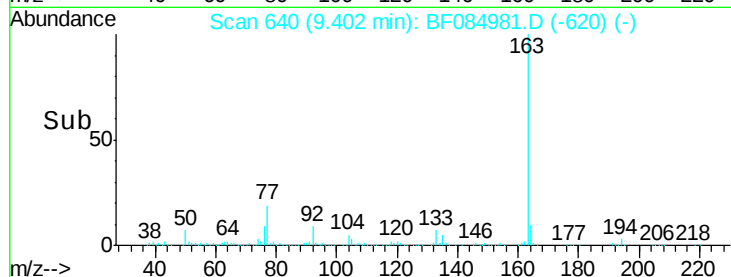
164 10.0 8.0 12.0



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



#60

4-Chlorophenyl-phenylether

Concen: Below Cal

RT: 10.22 min Scan# 712

Delta R.T. -0.05 min

Lab File: BF084981.D

Acq: 10 Feb 2016 4:46

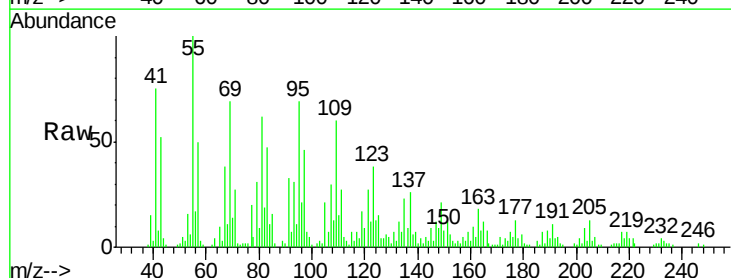
Tgt Ion:204 Resp: 1342

Ion Ratio Lower Upper

204 100

206 95.9 25.7 38.5#

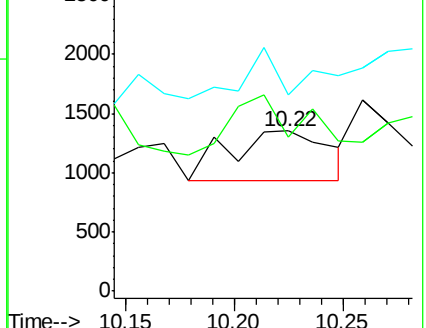
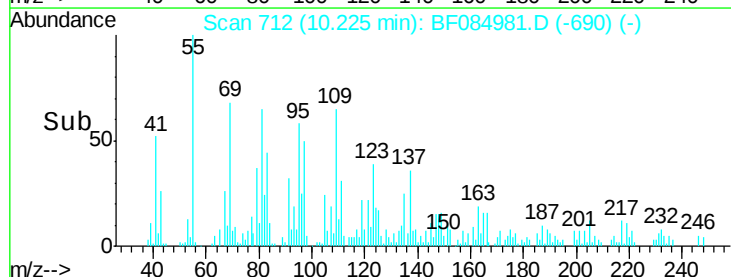
141 122.3 55.1 82.7#

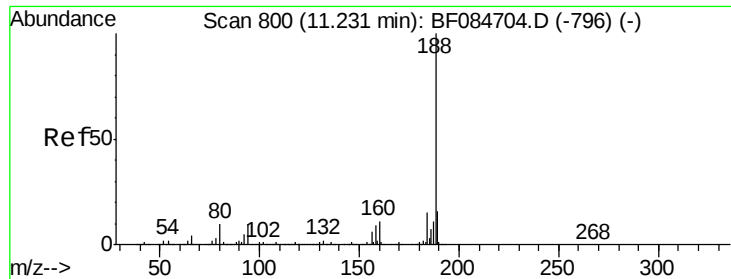


Abundance Ion 204.00 (203.70 to 204.70): E

Ion 206.00 (205.70 to 206.70): E

Ion 141.00 (140.70 to 141.70): E

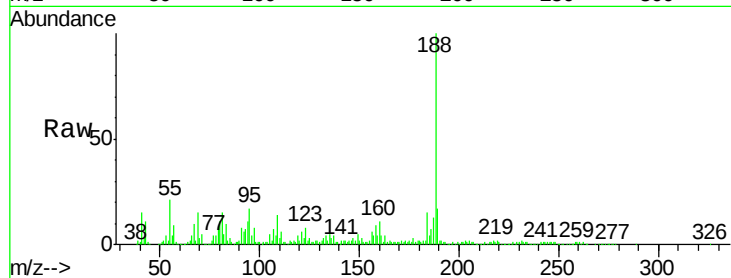




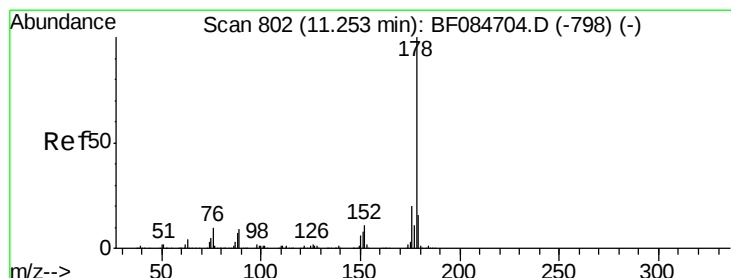
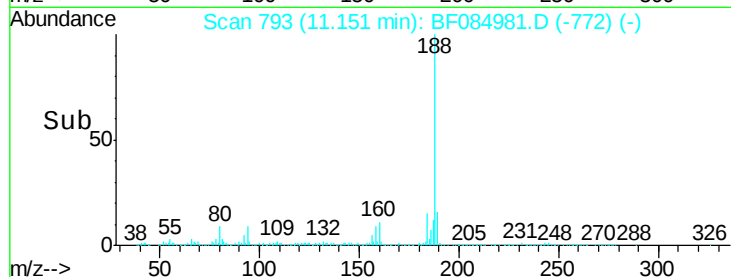
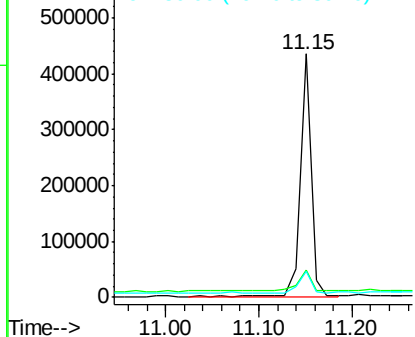
#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 11.15 min Scan# 793
Delta R.T. -0.06 min
Lab File: BF084981.D
Acq: 10 Feb 2016 4:46

Instrument :
BNA_F
ClientSampleId :
SW007

Tgt Ion	Ratio	Lower	Upper
188	100		
94	11.0	9.0	13.4
80	10.6	9.6	14.4

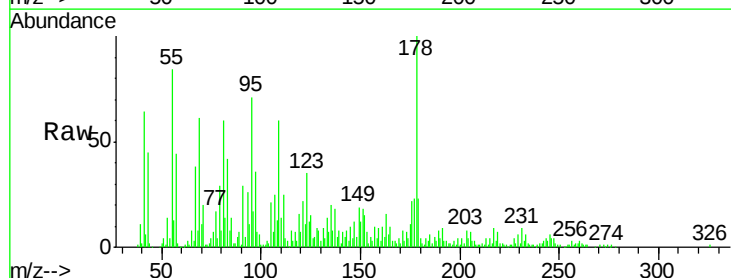


Abundance Ion 188.00 (187.70 to 188.70): E
Ion 94.00 (93.70 to 94.70): BF0
Ion 80.00 (79.70 to 80.70): BF0

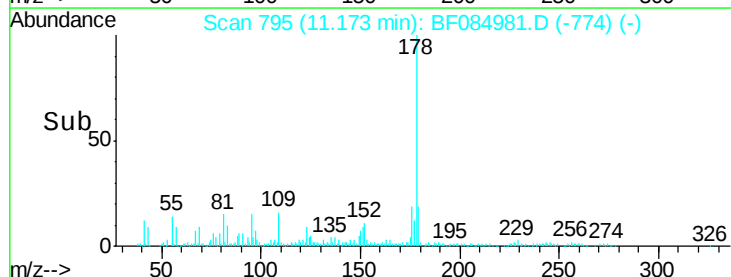
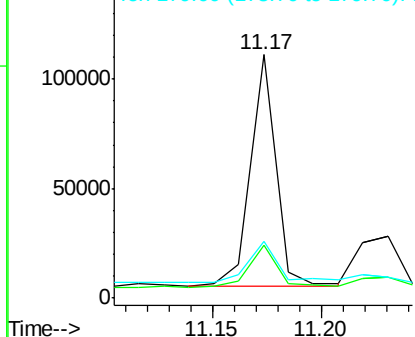


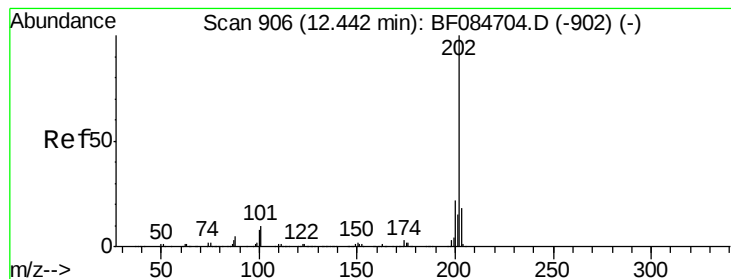
#70
Phenanthrene
Concen: 4.34 ng
RT: 11.17 min Scan# 795
Delta R.T. -0.06 min
Lab File: BF084981.D
Acq: 10 Feb 2016 4:46

Tgt Ion	Ratio	Lower	Upper
178	100		
176	21.9	15.3	22.9
179	23.3	12.0	18.0#



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: 3.78 ng

RT: 12.36 min Scan# 899

Delta R.T. -0.06 min

Lab File: BF084981.D

Acq: 10 Feb 2016 4:46

Instrument :

BNA_F

ClientSampleId :

SW007

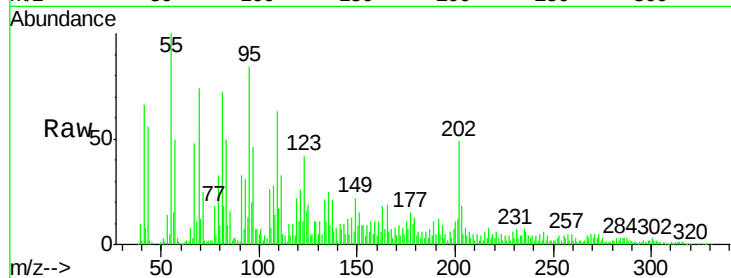
Tgt Ion:202 Resp: 75928

Ion Ratio Lower Upper

202 100

101 14.8 0.0 32.8

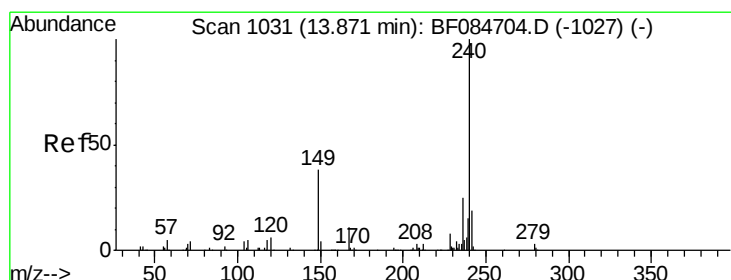
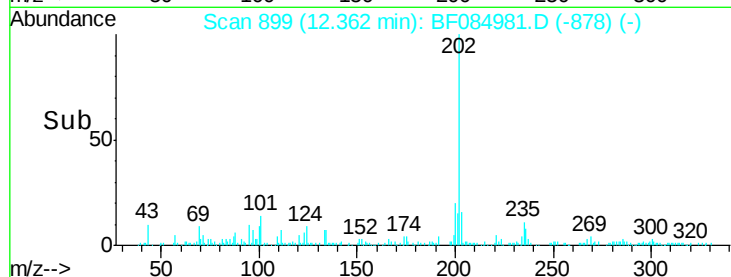
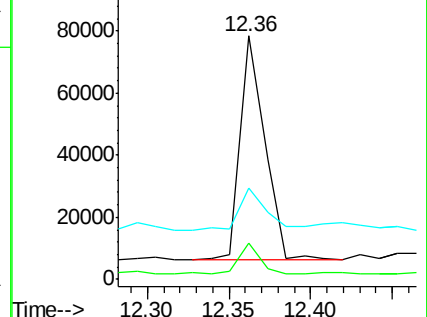
203 37.6 0.0 37.9



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: 13.80 min Scan# 1025

Delta R.T. -0.03 min

Lab File: BF084981.D

Acq: 10 Feb 2016 4:46

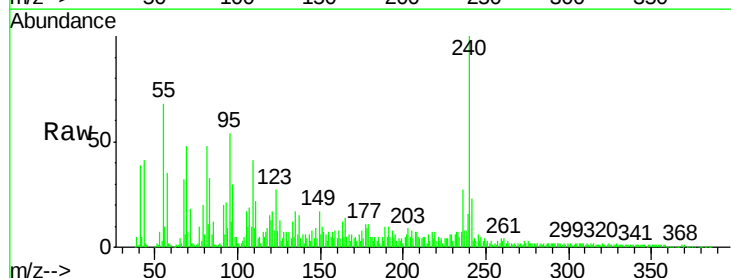
Tgt Ion:240 Resp: 255495

Ion Ratio Lower Upper

240 100

120 13.1 9.5 14.3

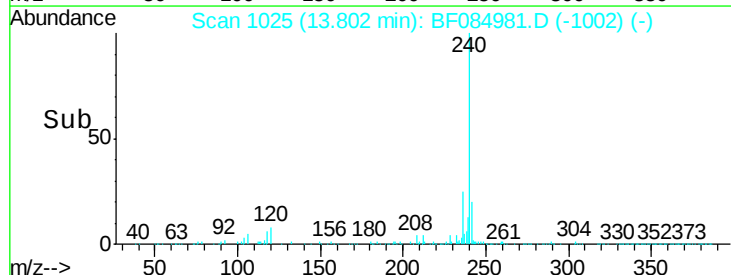
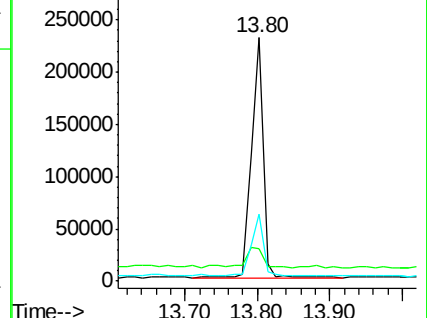
236 27.3 20.6 31.0

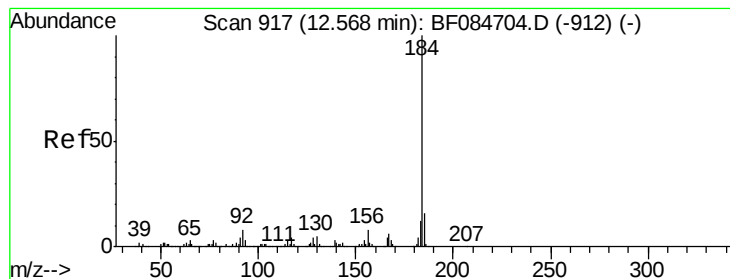


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#76

Benzidine

Concen: 7.10 ng

RT: 12.48 min Scan# 909

Delta R.T. -0.07 min

Lab File: BF084981.D

Acq: 10 Feb 2016 4:46

Instrument :

BNA_F

ClientSampleId :

SW007

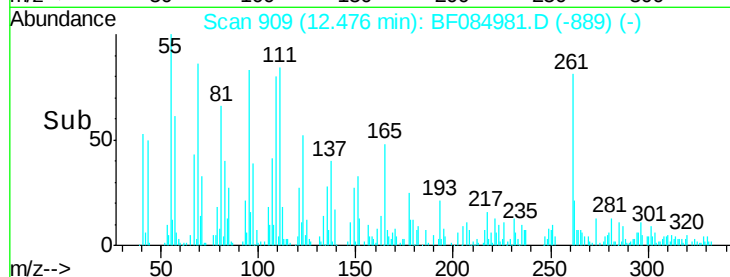
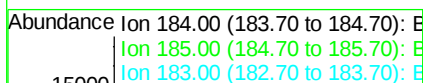
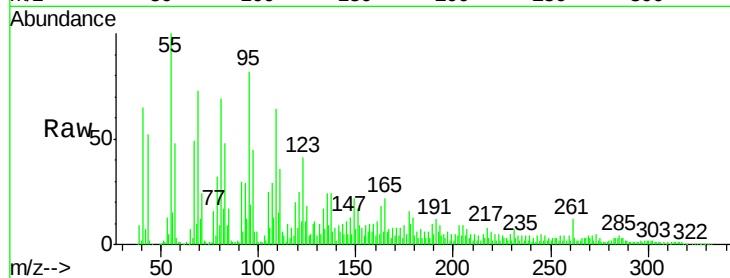
Tgt Ion:184 Resp: 2882

Ion Ratio Lower Upper

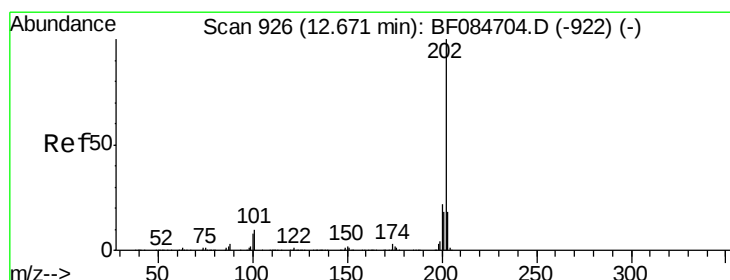
184 100

185 180.1 12.2 18.2#

183 209.6 9.8 14.8#



Time-->



#77

Pyrene

Concen: 4.40 ng

RT: 12.59 min Scan# 919

Delta R.T. -0.05 min

Lab File: BF084981.D

Acq: 10 Feb 2016 4:46

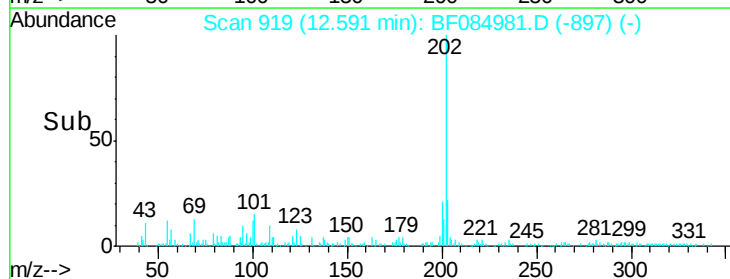
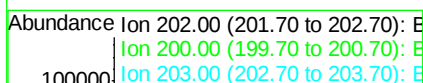
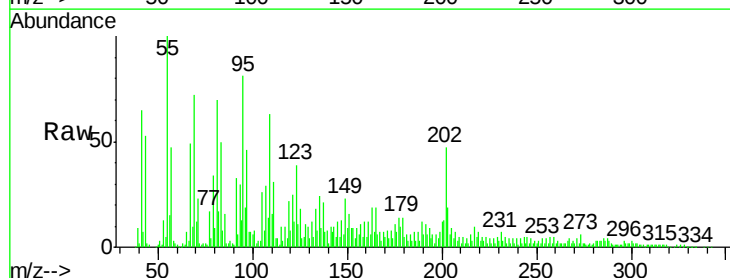
Tgt Ion:202 Resp: 86056

Ion Ratio Lower Upper

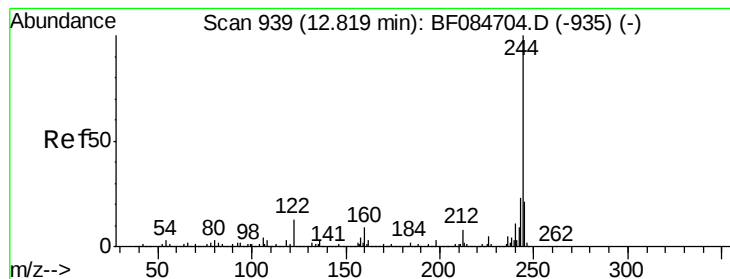
202 100

200 24.8 17.2 25.8

203 40.3 14.3 21.5#



Time-->



#78

Terphenyl-d14

Concen: 57.06 ng

RT: 12.75 min Scan# 933

Delta R.T. -0.05 min

Lab File: BF084981.D

Acq: 10 Feb 2016 4:46

Instrument :

BNA_F

ClientSampleId :

SW007

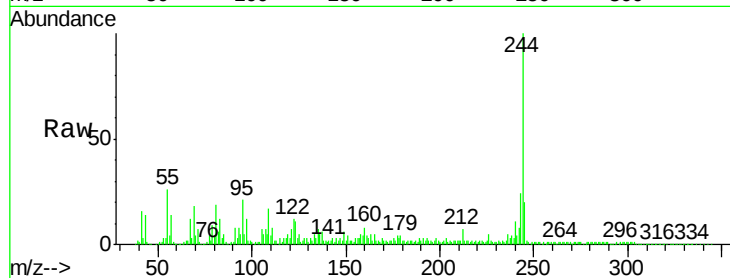
Tgt Ion:244 Resp: 643296

Ion Ratio Lower Upper

244 100

212 7.3 5.7 8.5

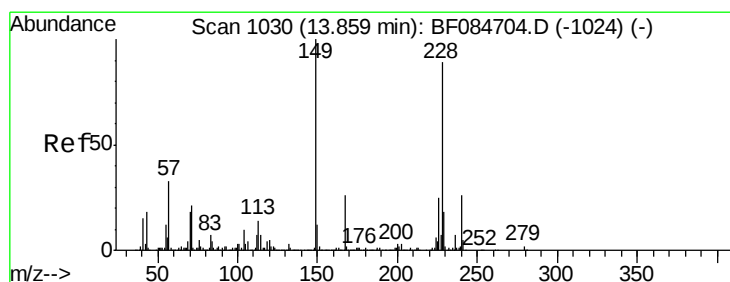
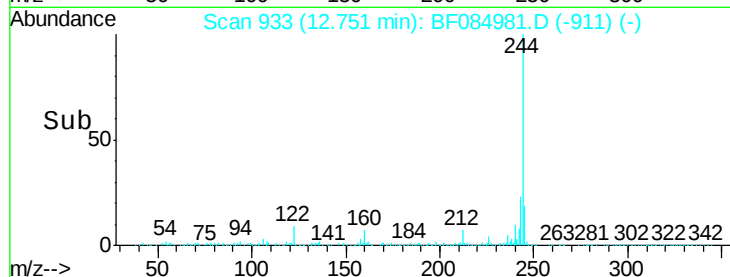
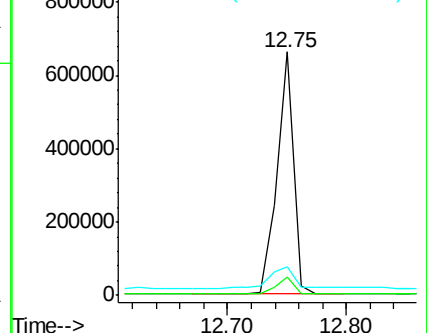
122 11.8 7.4 11.0#



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: 2.51 ng

RT: 13.79 min Scan# 1024

Delta R.T. -0.03 min

Lab File: BF084981.D

Acq: 10 Feb 2016 4:46

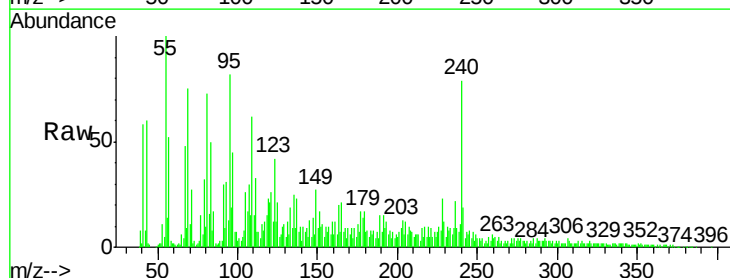
Tgt Ion:228 Resp: 39842

Ion Ratio Lower Upper

228 100

226 42.5 21.8 32.6#

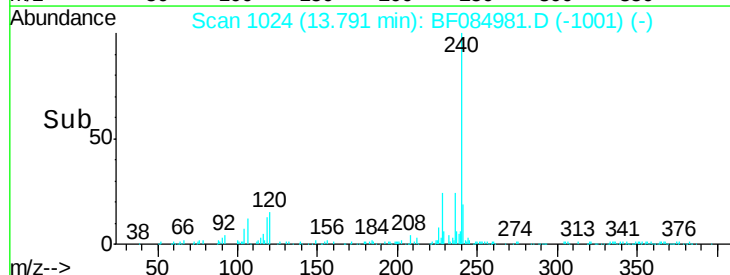
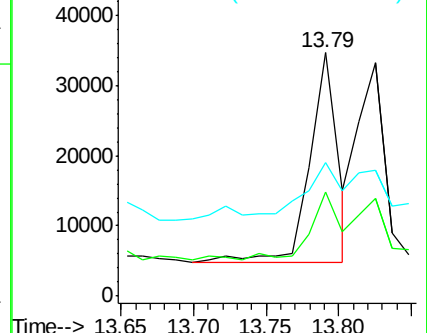
229 54.8 15.8 23.8#

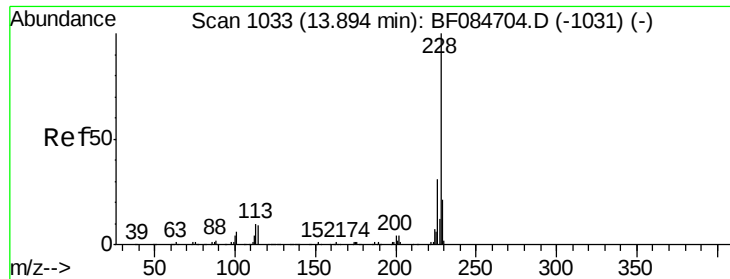


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

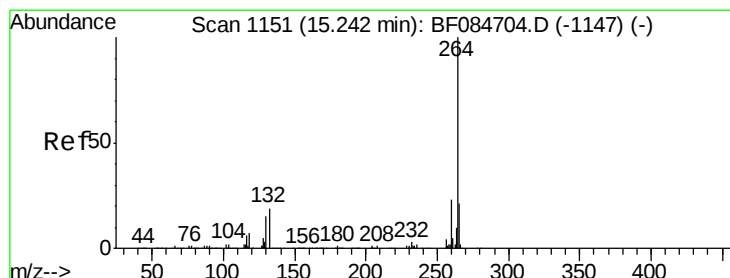
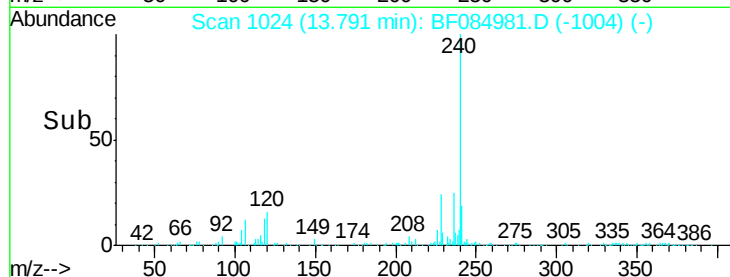
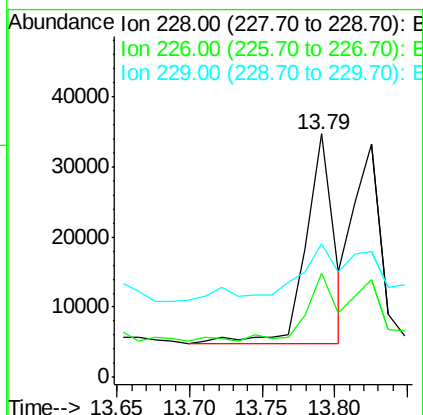
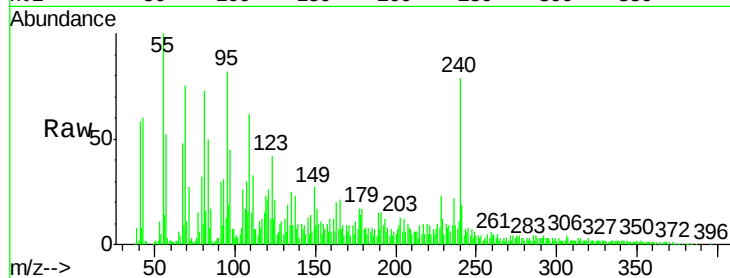




#82
Chrysene
Concen: 2.59 ng
RT: 13.79 min Scan# 1024
Delta R.T. -0.07 min
Lab File: BF084981.D
Acq: 10 Feb 2016 4:46

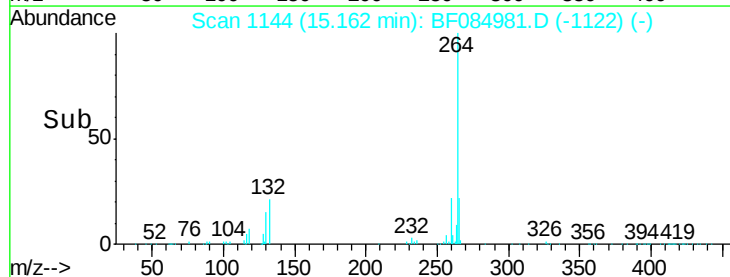
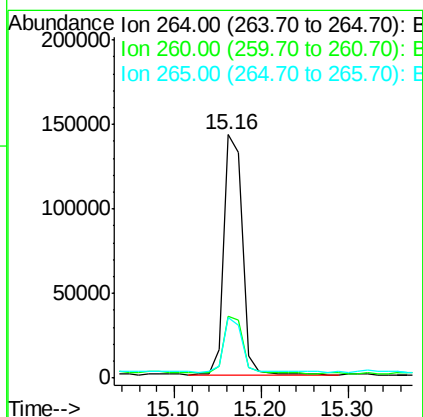
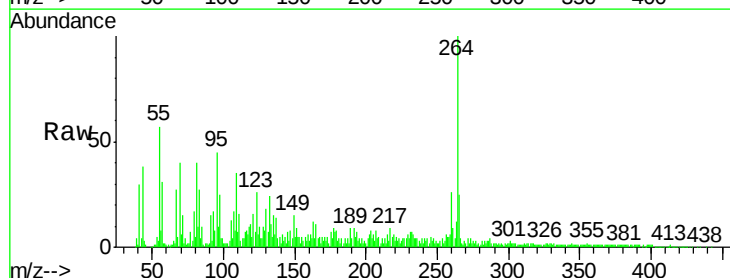
Instrument :
BNA_F
ClientSampleId :
SW007

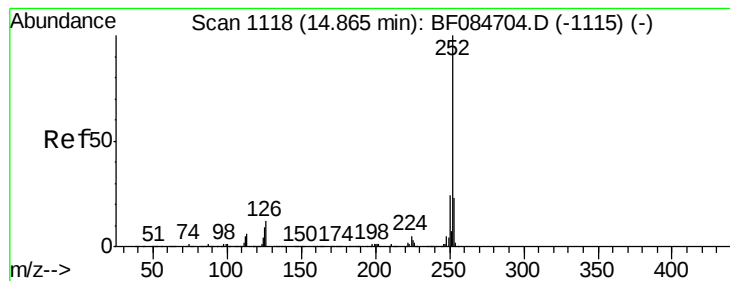
Tgt Ion: 228 Resp: 39842
Ion Ratio Lower Upper
228 100
226 42.5 24.3 36.5#
229 54.8 16.1 24.1#



#86
Perylene-d12
Concen: 20.00 ng
RT: 15.16 min Scan# 1144
Delta R.T. -0.05 min
Lab File: BF084981.D
Acq: 10 Feb 2016 4:46

Tgt Ion: 264 Resp: 211020
Ion Ratio Lower Upper
264 100
260 25.5 19.4 29.2
265 24.8 17.8 26.6





#87

Benzo(b)fluoranthene

Concen: 2.84 ng

RT: 14.80 min Scan# 1112

Delta R.T. -0.03 min

Lab File: BF084981.D

Acq: 10 Feb 2016 4:46

Instrument :

BNA_F

ClientSampleId :

SW007

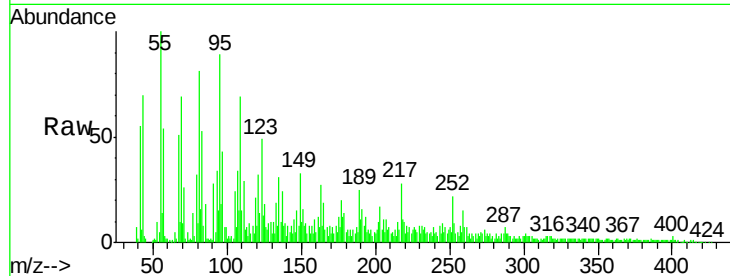
Tgt Ion: 252 Resp: 40273

Ion Ratio Lower Upper

252 100

253 40.4 17.3 25.9#

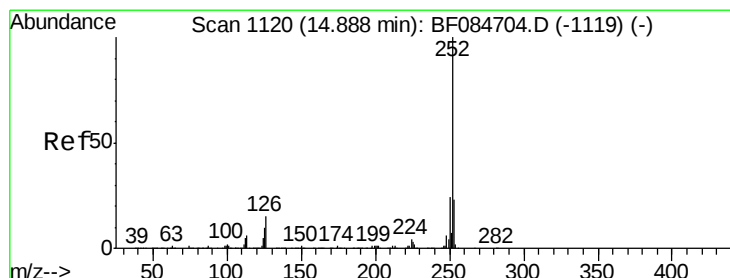
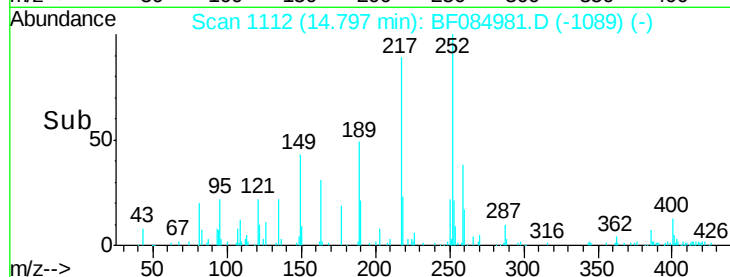
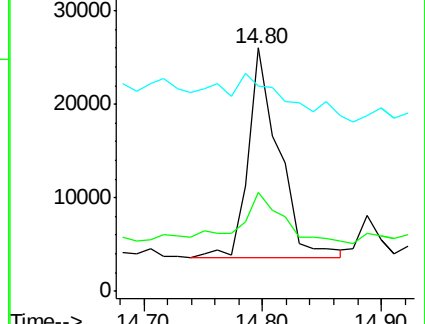
125 84.5 6.5 9.7#



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



#88

Benzo(k)fluoranthene

Concen: 3.44 ng

RT: 14.80 min Scan# 1112

Delta R.T. -0.06 min

Lab File: BF084981.D

Acq: 10 Feb 2016 4:46

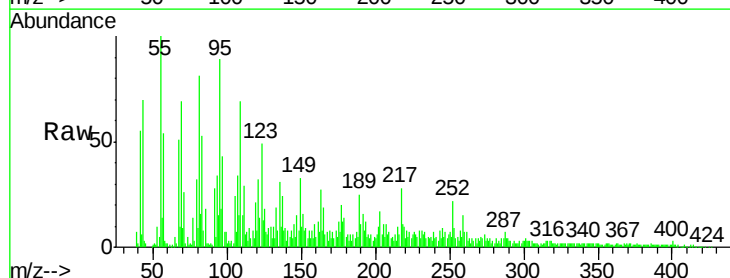
Tgt Ion: 252 Resp: 40273

Ion Ratio Lower Upper

252 100

253 40.4 18.1 27.1#

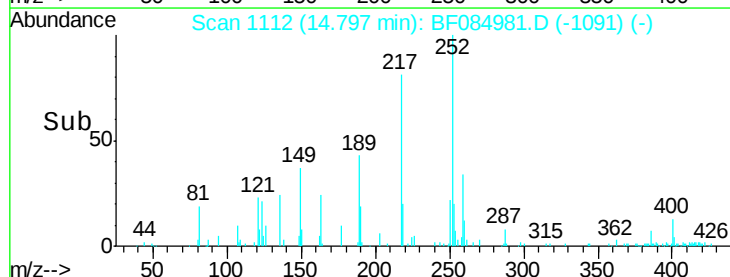
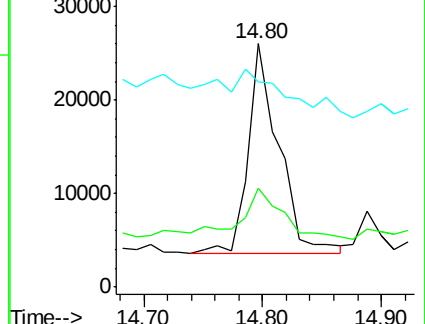
125 84.5 9.0 13.6#

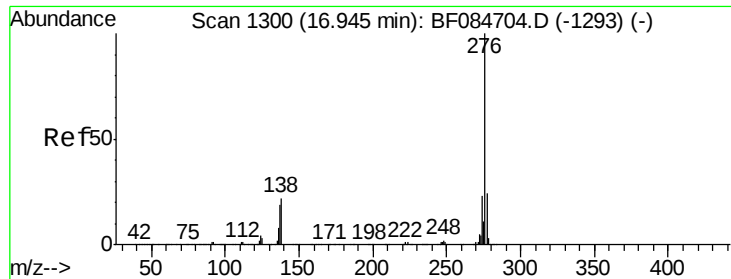


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#91

Benzo(g,h,i)perylene

Concen: 2.33 ng

RT: 16.80 min Scan# 1287

Delta R.T. -0.09 min

Lab File: BF084981.D

Acq: 10 Feb 2016 4:46

Instrument :

BNA_F

ClientSampleId :

SW007

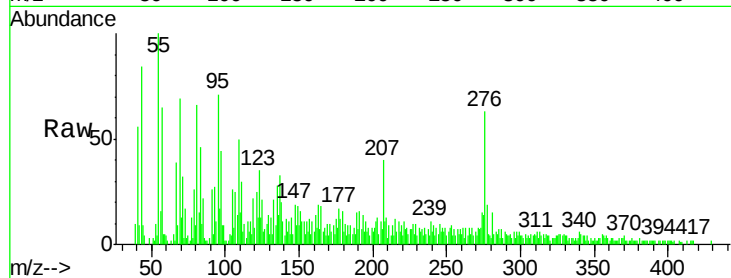
Tgt Ion: 276 Resp: 23818

Ion Ratio Lower Upper

276 100

277 30.5 18.8 28.2#

138 31.4 17.8 26.6#



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

