

Data Path : U:\HPCHEM1\BNA F\DATA\BF011518\
 Data File : BF102094.D
 Acq On : 16 Jan 2018 7:24
 Operator : SJ/JU
 Sample : J1117-02
 Misc :
 ALS Vial : 31 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 UST-1 14.5-15.0

Quant Time: Jan 16 11:41:39 2018
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF010918.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Jan 11 12:53:54 2018
 Response via : Initial Calibration

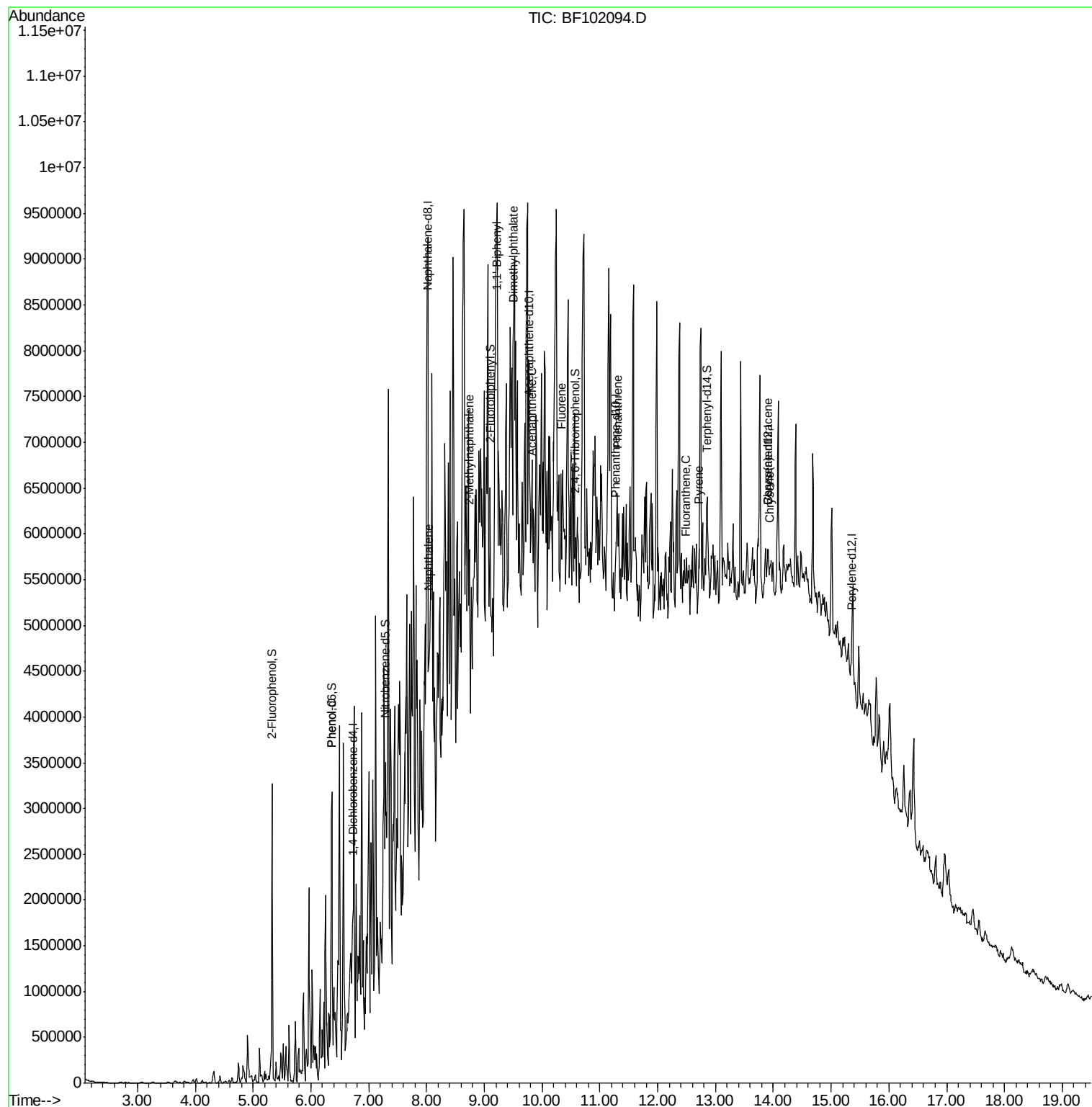
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.72	152	144329	20.00	ng	0.00
21) Naphthalene-d8	8.02	136	227113	20.00	ng	0.00
38) Acenaphthene-d10	9.79	164	146704	20.00	ng	0.02
63) Phenanthrene-d10	11.27	188	199091	20.00	ng	0.02
75) Chrysene-d12	13.91	240	170617	20.00	ng	0.03
86) Perylene-d12	15.34	264	131810	20.00	ng	0.05
System Monitoring Compounds						
5) 2-Fluorophenol	5.33	112	934607	91.44	ng	0.00
7) Phenol-d6	6.36	99	1082546	88.77	ng	0.00
23) Nitrobenzene-d5	7.29	82	630147	163.05	ng	0.00
41) 2,4,6-Tribromophenol	10.57	330	109010	85.15	ng	0.02
44) 2-Fluorobiphenyl	9.10	172	761089	81.05	ng	0.00
78) Terphenyl-d14	12.86	244	464842	56.57	ng	0.02
Target Compounds						Qvalue
10) Phenol	6.37	94	33328	2.418	ng	81
31) Naphthalene	8.04	128	86025	7.580	ng	# 47
37) 2-Methylnaphthalene	8.74	142	636449	85.189	ng	98
45) 1,1'-Biphenyl	9.20	154	315846	24.358	ng	97
49) Dimethylphthalate	9.49	163	105857	8.995	ng	# 79
51) Acenaphthene	9.82	154	42654	4.404	ng	# 44
57) Fluorene	10.33	166	202566	22.044	ng	# 80
70) Phenanthrene	11.30	178	652899	56.141	ng	97
74) Fluoranthene	12.48	202	70869	6.194	ng	65
77) Pyrene	12.71	202	287756	19.080	ng	# 95
80) Benzo(a)anthracene	13.90	228	62237	5.717	ng	# 25
82) Chrysene	13.93	228	127712	11.251	ng	# 66

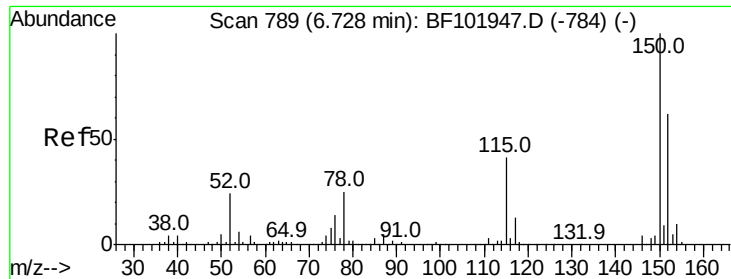
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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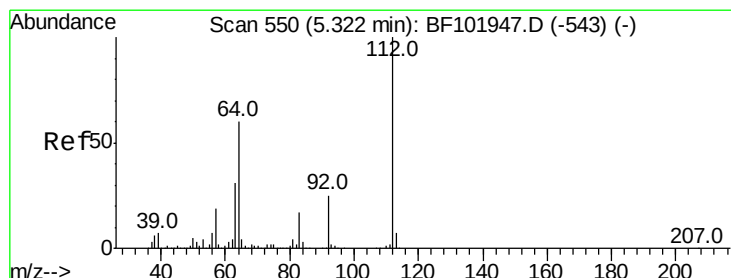
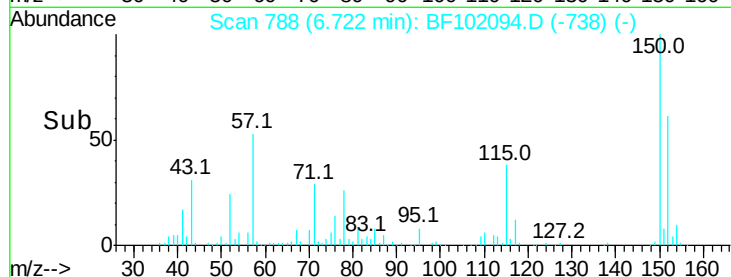
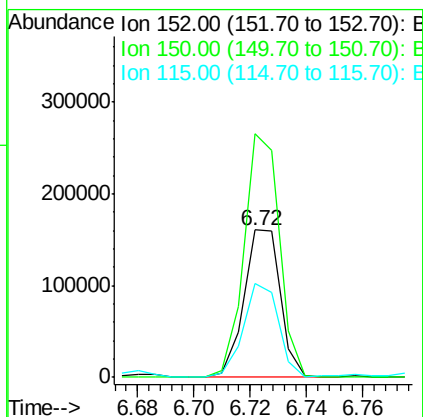
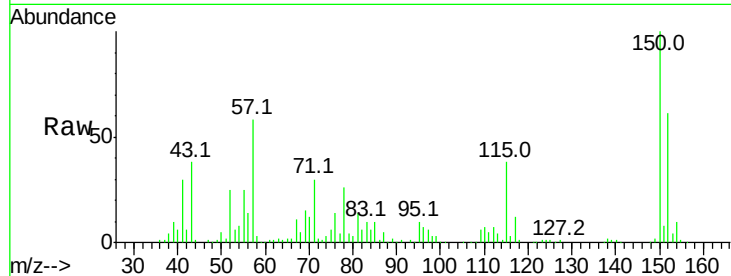


#1

1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.72 min Scan# 788
Delta R.T. -0.01 min
Lab File: BF102094.D
Acq: 16 Jan 2018 7:24

Instrument :
BNA_F
ClientSampleId :
UST-1 14.5-15.0

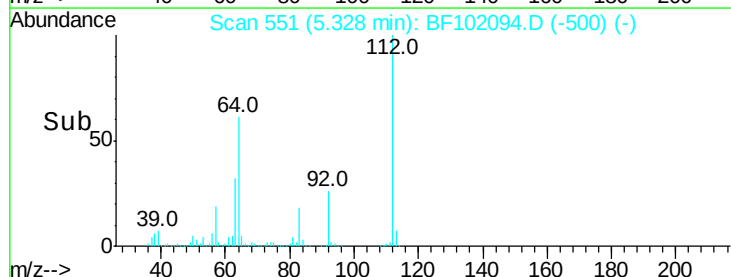
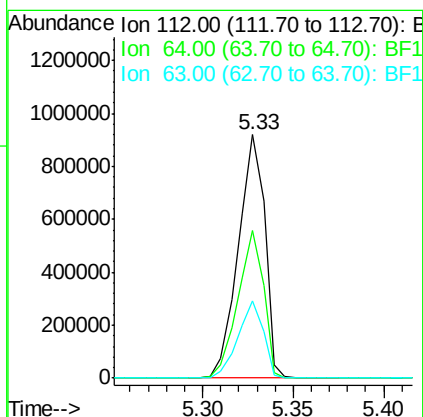
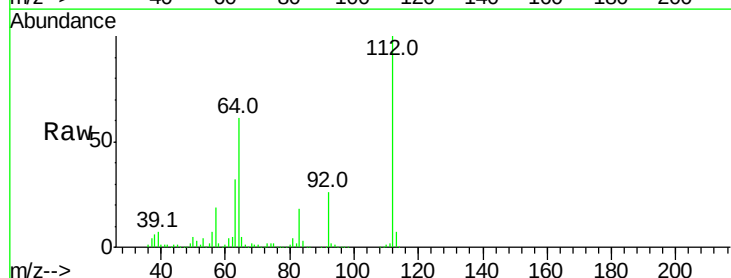
Tot Ion:152 Resp: 144329
Ion Ratio Lower Upper
152 100
150 165.0 124.6 186.8
115 63.4 50.1 75.1

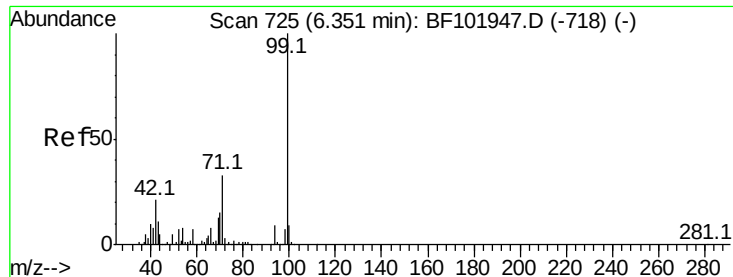


#5

2-Fluorophenol
Concen: 91.440 ng
RT: 5.33 min Scan# 551
Delta R.T. -0.00 min
Lab File: BF102094.D
Acq: 16 Jan 2018 7:24

Tgt Ion:112 Resp: 934607
Ion Ratio Lower Upper
112 100
64 60.7 47.9 71.9
63 31.8 23.7 35.5





#7

Phenol-d6

Concen: 88.772 ng

RT: 6.36 min Scan# 727

Delta R.T. -0.00 min

Lab File: BF102094.D

Acq: 16 Jan 2018 7:24

Instrument :

BNA_F

ClientSampleId :

UST-1 14.5-15.0

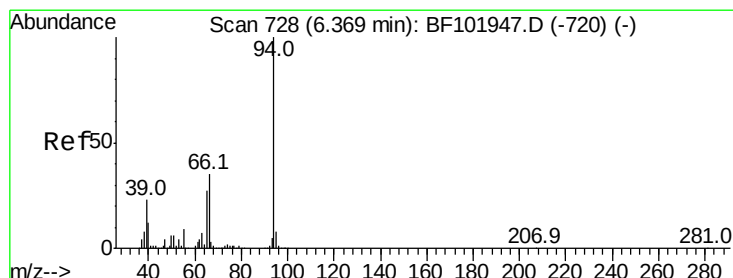
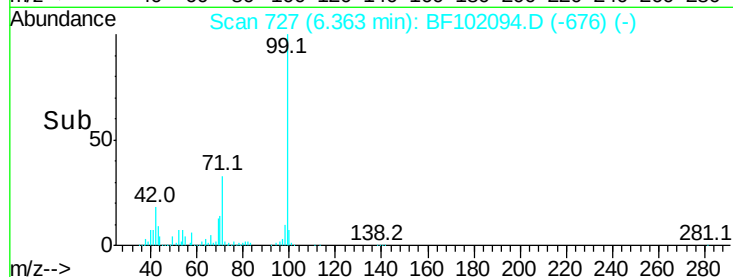
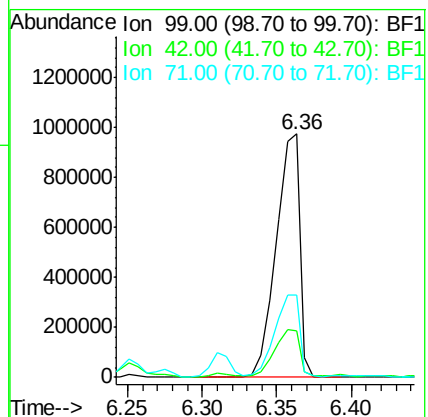
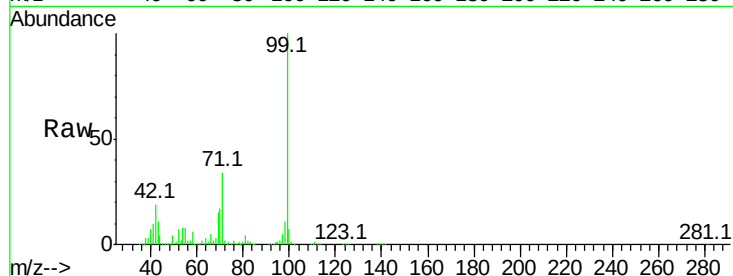
Tot Ion: 99 Resp: 1082546

Ion Ratio Lower Upper

99 100

42 19.1 14.5 21.7

71 33.8 25.4 38.0



#10

Phenol

Concen: 2.418 ng

RT: 6.37 min Scan# 728

Delta R.T. -0.01 min

Lab File: BF102094.D

Acq: 16 Jan 2018 7:24

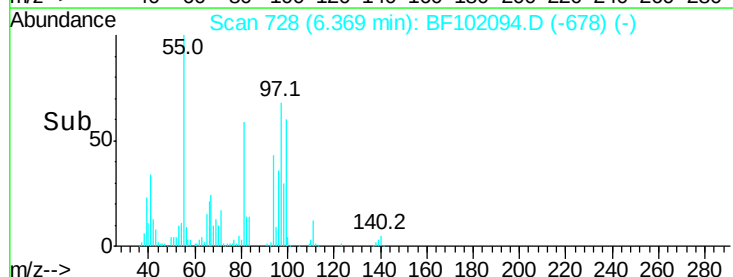
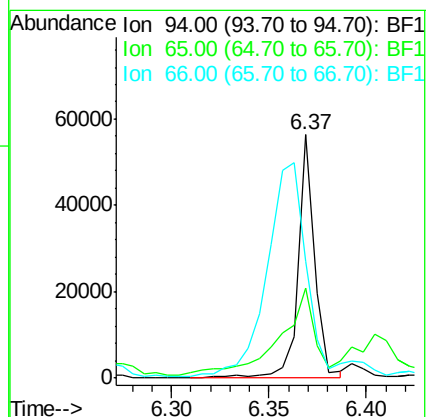
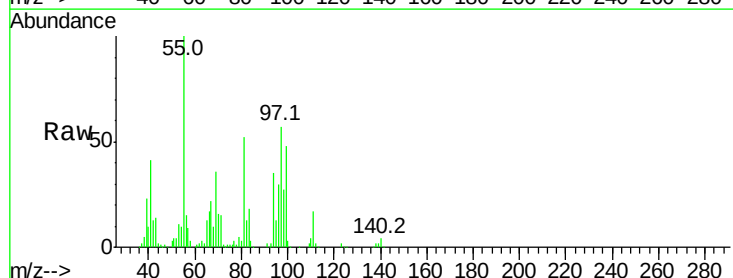
Tgt Ion: 94 Resp: 33328

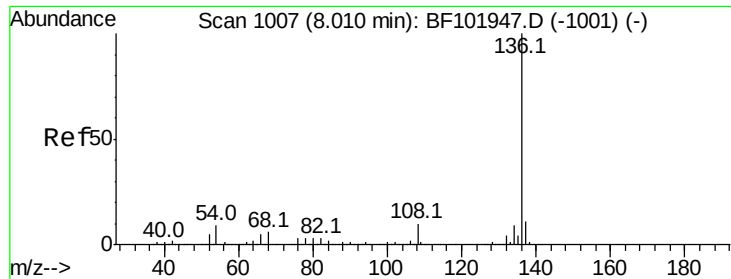
Ion Ratio Lower Upper

94 100

65 37.1 7.9 47.9

66 48.1 16.2 56.2





#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.02 min Scan# 1008

Delta R.T. 0.01 min

Lab File: BF102094.D

Acq: 16 Jan 2018 7:24

Instrument :

BNA_F

ClientSampleId :

UST-1 14.5-15.0

Tot Ion:136 Resp: 227113

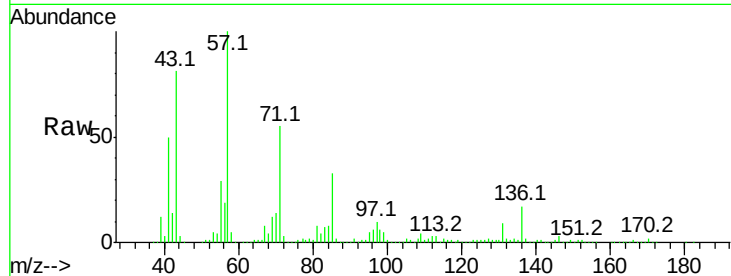
Ion Ratio Lower Upper

136 100

137 13.6 8.9 13.3#

54 25.2 6.6 9.8#

68 20.2 5.0 7.4#



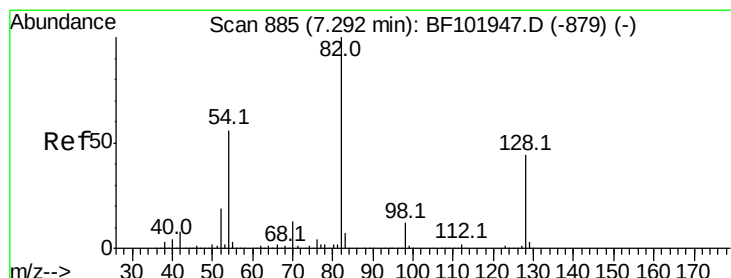
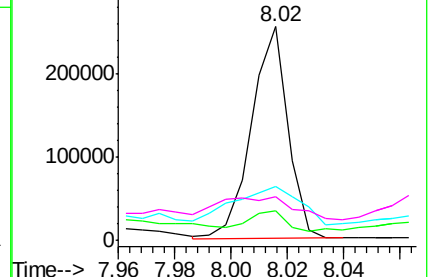
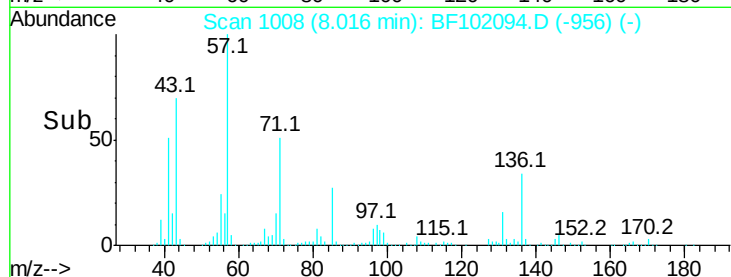
Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BF1

Ion 68.00 (67.70 to 68.70): BF1

Time--> 7.96 7.98 8.00 8.02 8.04



#23

Nitrobenzene-d5

Concen: 163.047 ng

RT: 7.29 min Scan# 885

Delta R.T. -0.01 min

Lab File: BF102094.D

Acq: 16 Jan 2018 7:24

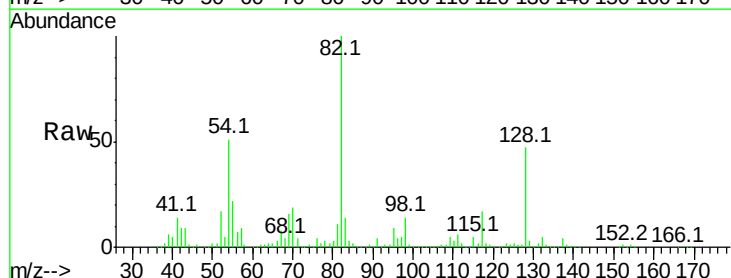
Tgt Ion: 82 Resp: 630147

Ion Ratio Lower Upper

82 100

128 46.7 36.1 54.1

54 51.3 41.4 62.2

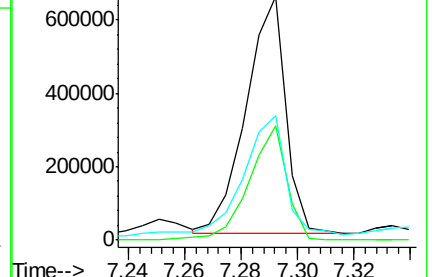
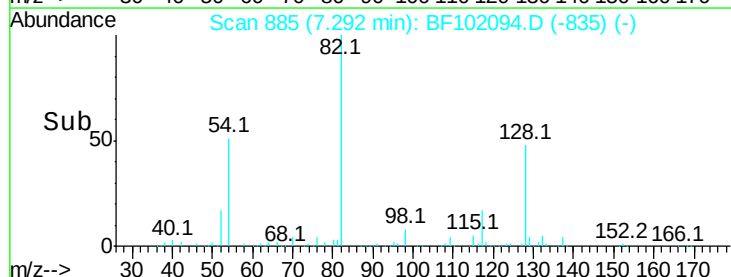


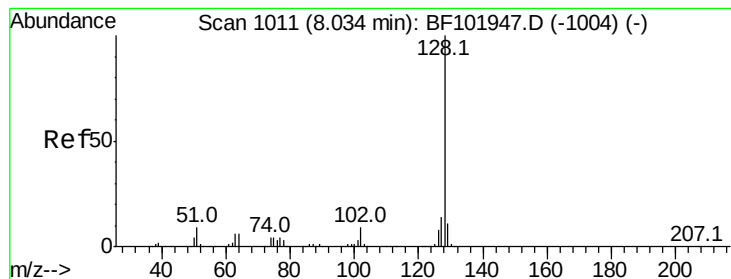
Abundance Ion 82.00 (81.70 to 82.70): BF1

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF1

Time--> 7.24 7.26 7.28 7.30 7.32





#31

Naphthalene

Concen: 7.580 ng

RT: 8.04 min Scan# 1012

Delta R.T. 0.01 min

Lab File: BF102094.D

Acq: 16 Jan 2018 7:24

Instrument :

BNA_F

ClientSampleId :

UST-1 14.5-15.0

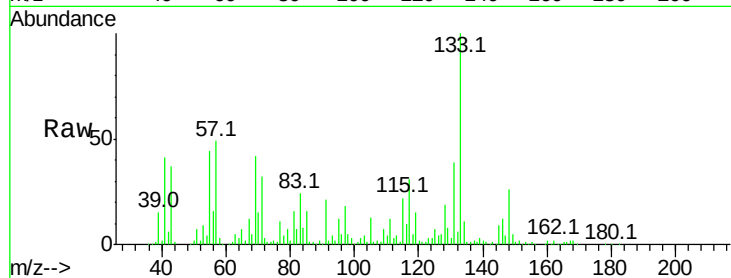
Tot Ion:128 Resp: 86025

Ion Ratio Lower Upper

128 100

129 40.6 8.8 13.2#

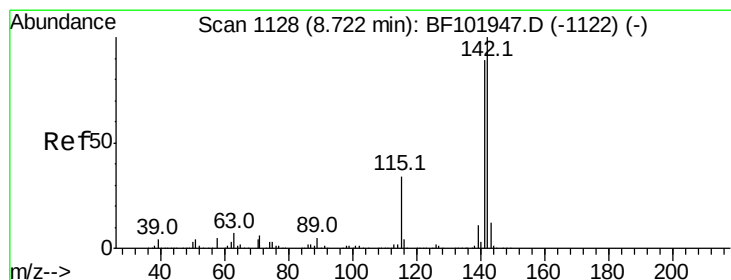
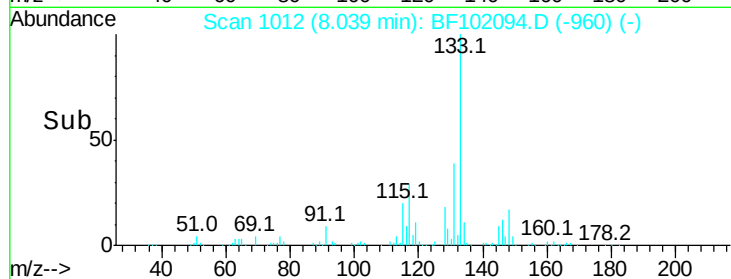
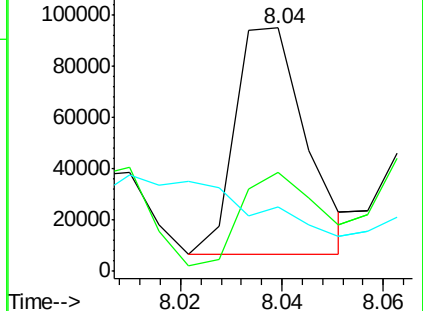
127 26.5 10.9 16.3#



Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E



#37

2-Methylnaphthalene

Concen: 85.189 ng

RT: 8.74 min Scan# 1131

Delta R.T. 0.02 min

Lab File: BF102094.D

Acq: 16 Jan 2018 7:24

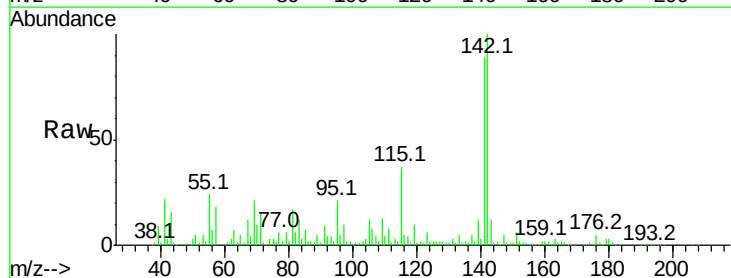
Tgt Ion:142 Resp: 636449

Ion Ratio Lower Upper

142 100

141 88.8 70.8 106.2

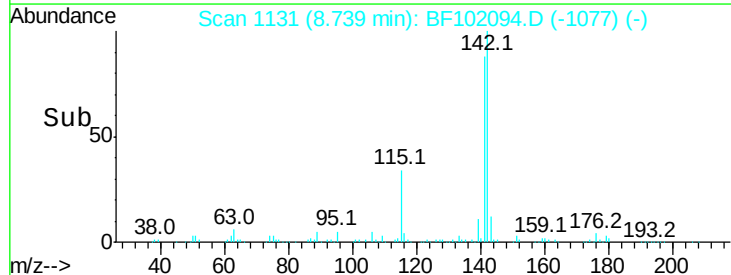
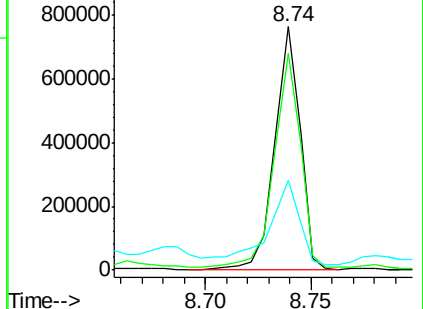
115 36.8 26.1 39.1

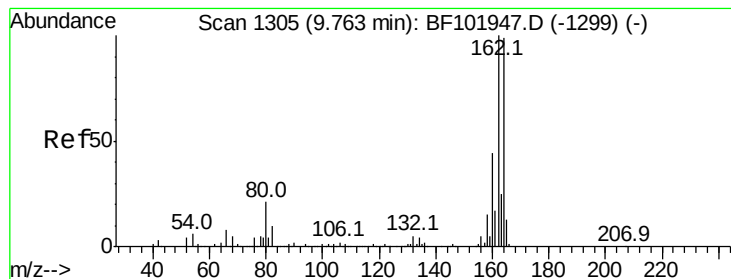


Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 115.00 (114.70 to 115.70): E





#38

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.79 min Scan# 1309

Delta R.T. 0.02 min

Lab File: BF102094.D

Acq: 16 Jan 2018 7:24

Instrument :

BNA_F

ClientSampleId :

UST-1 14.5-15.0

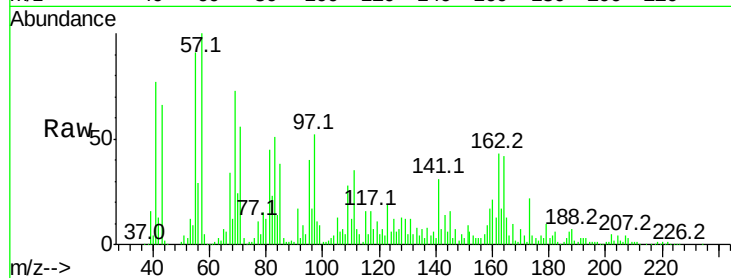
Tot Ion:164 Resp: 146704

Ion Ratio Lower Upper

164 100

162 103.3 86.1 129.1

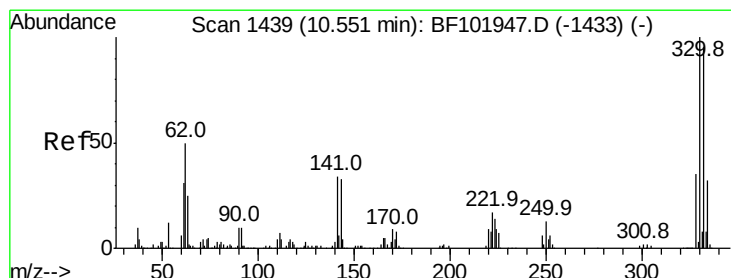
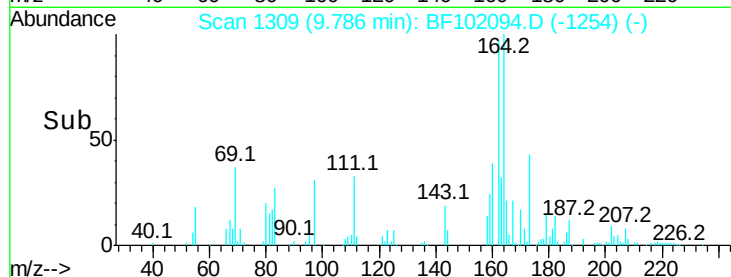
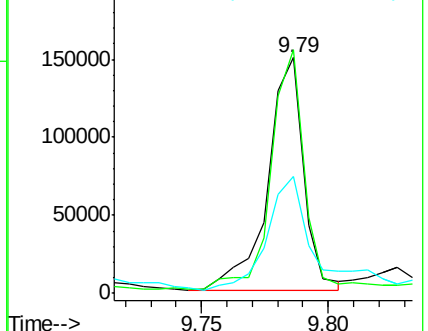
160 49.7 38.3 57.5



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: 85.146 ng

RT: 10.57 min Scan# 1443

Delta R.T. 0.02 min

Lab File: BF102094.D

Acq: 16 Jan 2018 7:24

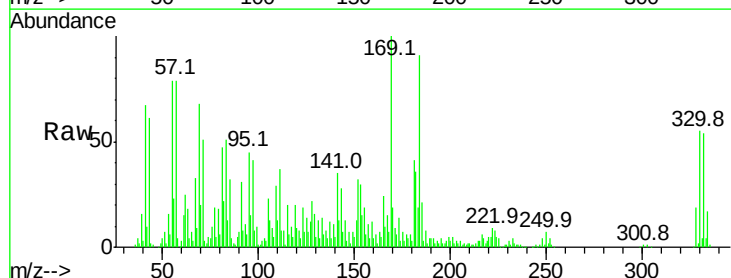
Tgt Ion:330 Resp: 109010

Ion Ratio Lower Upper

330 100

332 97.9 77.0 115.6

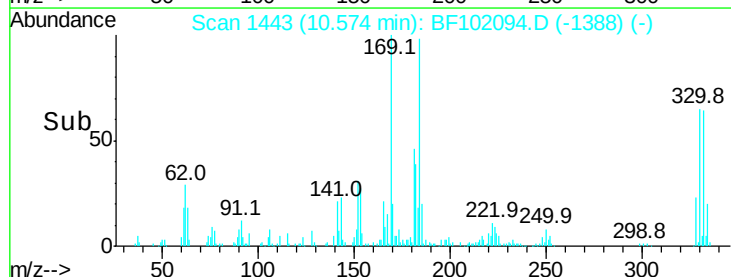
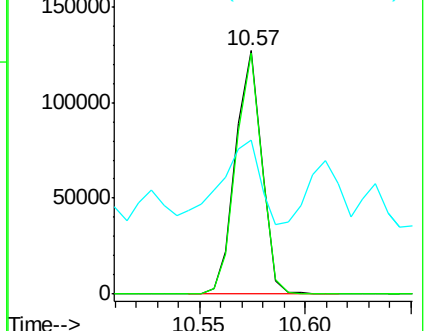
141 52.3 29.9 44.9#

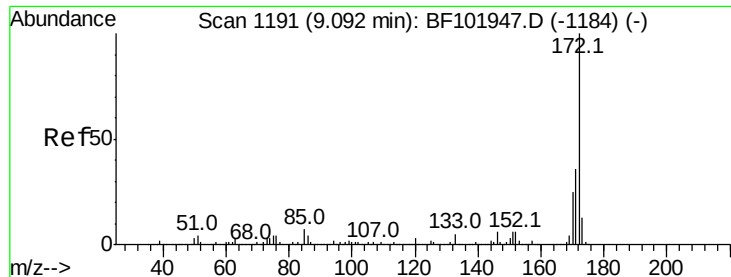


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E





#44

2-Fluorobiphenyl

Concen: 81.049 ng

RT: 9.10 min Scan# 1192

Delta R.T. 0.01 min

Lab File: BF102094.D

Acq: 16 Jan 2018 7:24

Instrument :

BNA_F

ClientSampleId :

UST-1 14.5-15.0

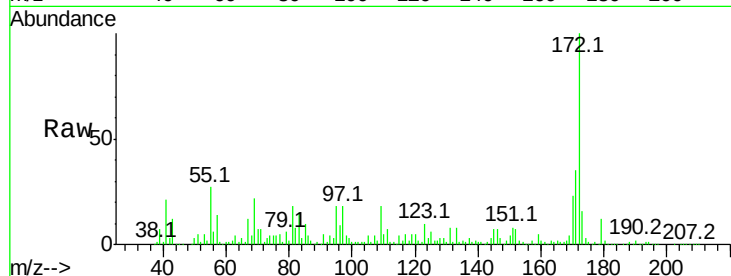
Tot Ion:172 Resp: 761089

Ion Ratio Lower Upper

172 100

171 35.5 29.7 44.5

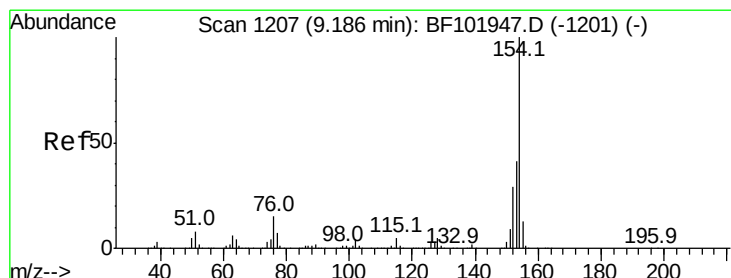
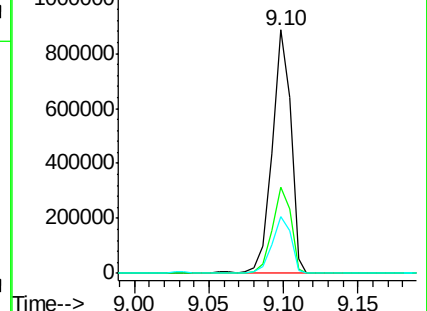
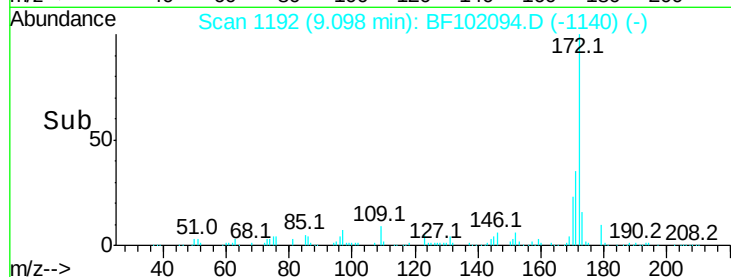
170 23.2 19.6 29.4



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



#45

1,1'-Biphenyl

Concen: 24.358 ng

RT: 9.20 min Scan# 1210

Delta R.T. 0.01 min

Lab File: BF102094.D

Acq: 16 Jan 2018 7:24

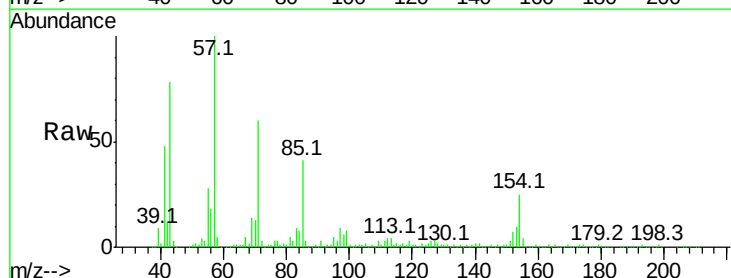
Tgt Ion:154 Resp: 315846

Ion Ratio Lower Upper

154 100

153 40.1 21.3 61.3

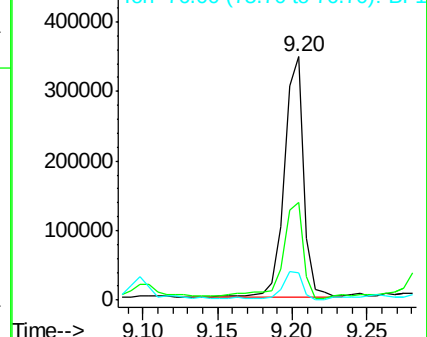
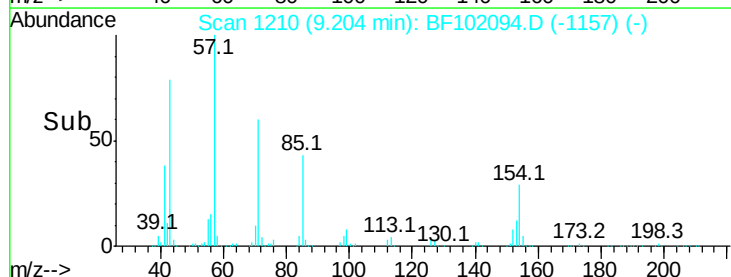
76 11.1 0.0 34.0

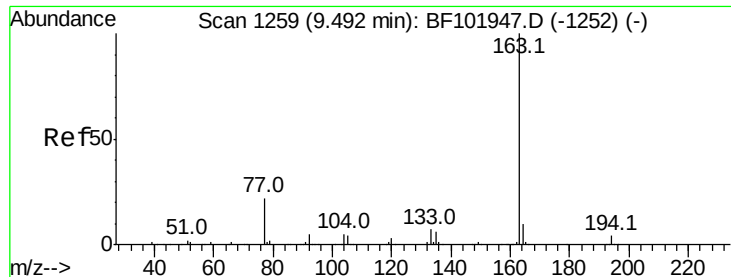


Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 76.00 (75.70 to 76.70): BF1

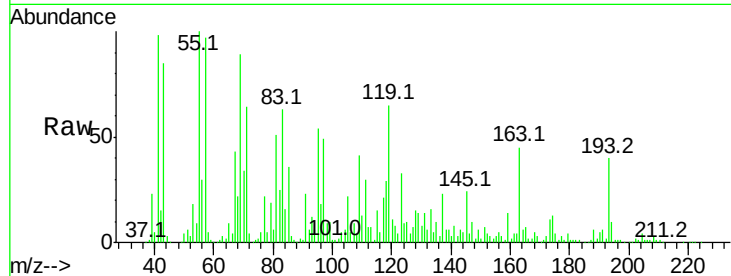




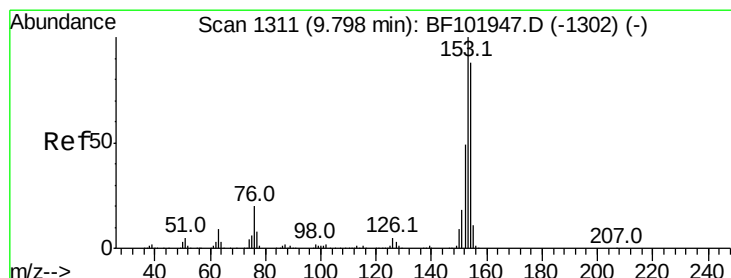
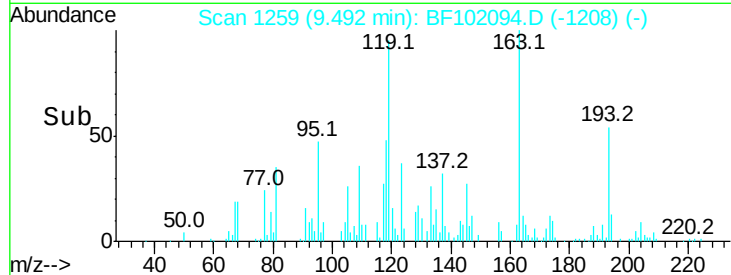
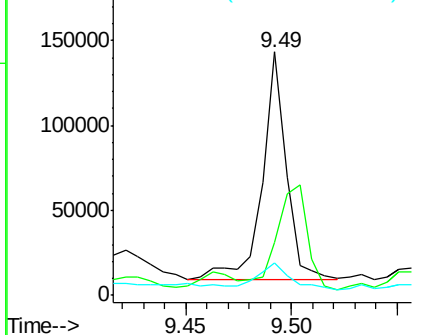
#49
 Dimethylphthalate
 Concen: 8.995 ng
 RT: 9.49 min Scan# 1259
 Delta R.T. -0.00 min
 Lab File: BF102094.D
 Acq: 16 Jan 2018 7:24

Instrument :
 BNA_F
 ClientSampleId :
 UST-1 14.5-15.0

Tot Ion:	163	Resp:	105857
Ion	Ratio	Lower	Upper
163	100		
194	21.9	2.7	4.1#
164	13.6	8.2	12.2#

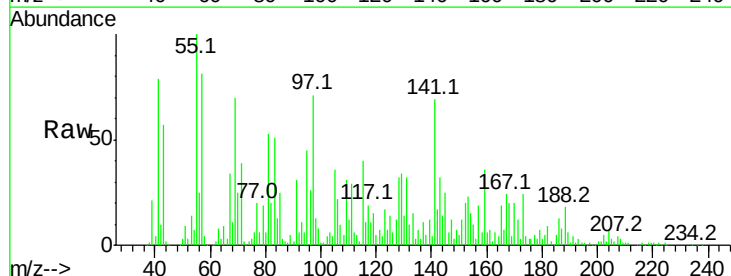


Abundance Ion 163.00 (162.70 to 163.70): E
 Ion 194.00 (193.70 to 194.70): E
 Ion 164.00 (163.70 to 164.70): E

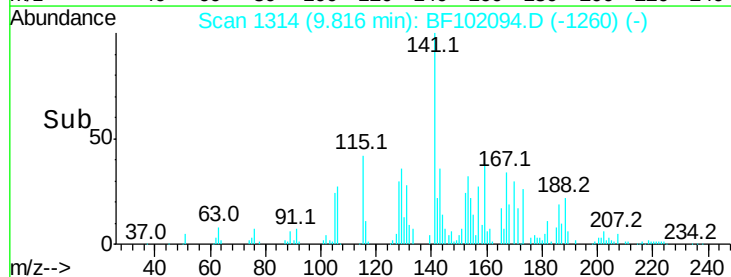
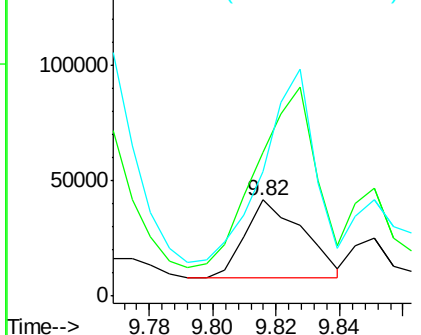


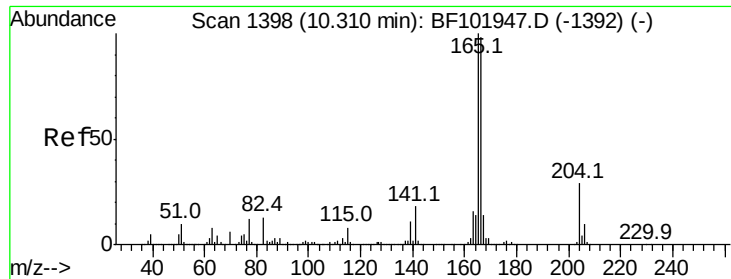
#51
 Acenaphthene
 Concen: 4.404 ng
 RT: 9.82 min Scan# 1314
 Delta R.T. 0.02 min
 Lab File: BF102094.D
 Acq: 16 Jan 2018 7:24

Tgt Ion:	154	Resp:	42654
Ion	Ratio	Lower	Upper
154	100		
153	150.1	91.2	136.8#
152	129.3	43.8	65.8#



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





#57

Fluorene

Concen: 22.044 ng

RT: 10.33 min Scan# 1402

Delta R.T. 0.02 min

Lab File: BF102094.D

Acq: 16 Jan 2018 7:24

Instrument :

BNA_F

ClientSampleId :

UST-1 14.5-15.0

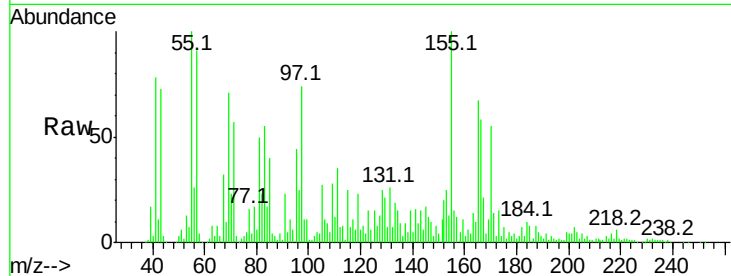
Tot Ion:166 Resp: 202566

Ion Ratio Lower Upper

166 100

165 115.3 79.8 119.8

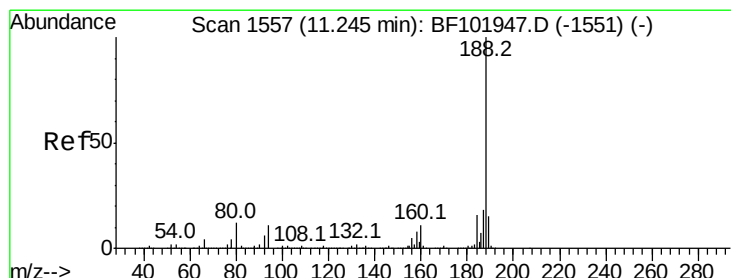
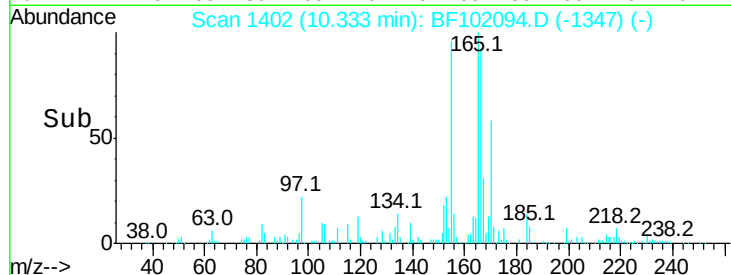
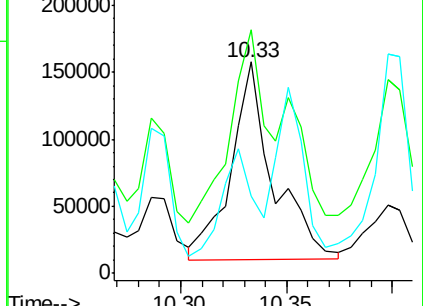
167 36.4 10.6 16.0#



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: 20.000 ng

RT: 11.27 min Scan# 1561

Delta R.T. 0.02 min

Lab File: BF102094.D

Acq: 16 Jan 2018 7:24

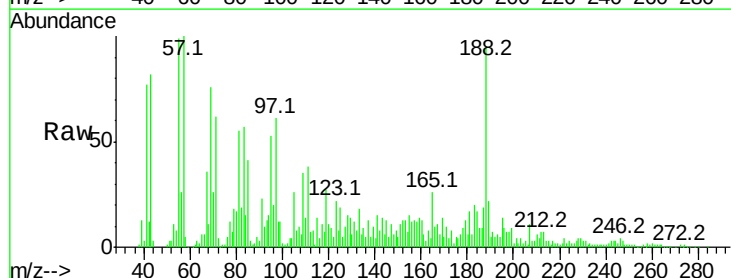
Tgt Ion:188 Resp: 199091

Ion Ratio Lower Upper

188 100

94 15.3 8.5 12.7#

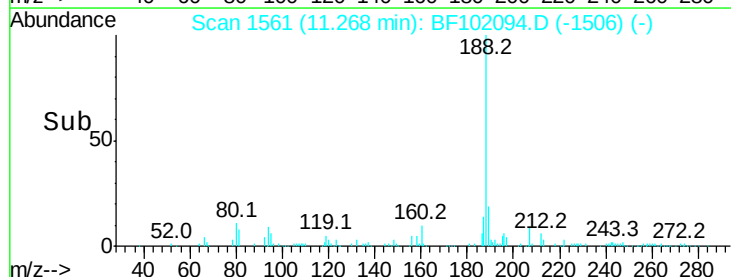
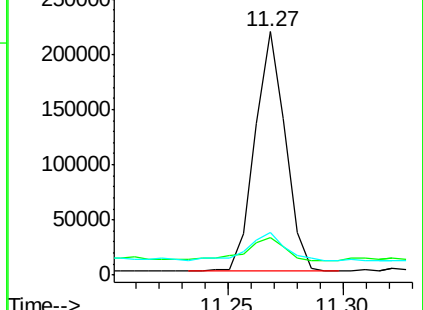
80 17.3 9.2 13.8#

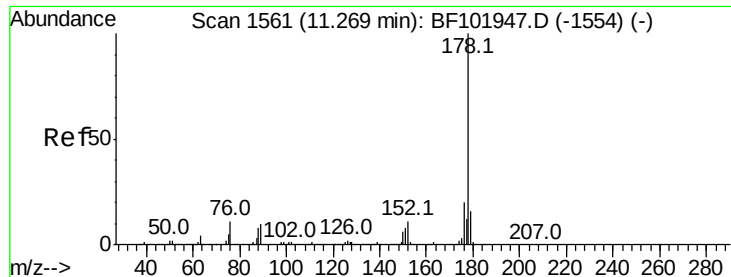


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF1

Ion 80.00 (79.70 to 80.70): BF1





#70

Phenanthrene

Concen: 56.141 ng

RT: 11.30 min Scan# 1566

Delta R.T. 0.03 min

Lab File: BF102094.D

Acq: 16 Jan 2018 7:24

Instrument :

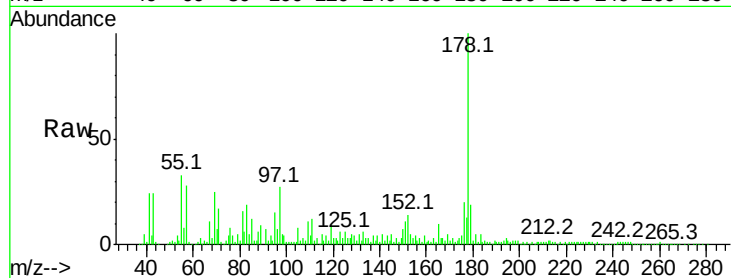
BNA_F

ClientSampleId :

UST-1 14.5-15.0

Tot Ion:178 Resp: 652899

Ion	Ratio	Lower	Upper
178	100		
176	20.0	15.8	23.8
179	18.8	13.0	19.6

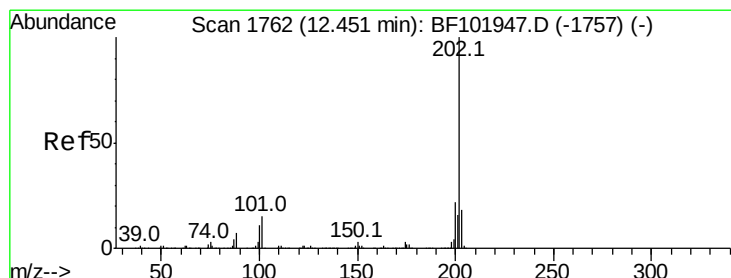
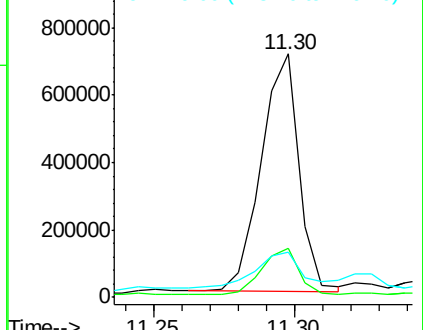
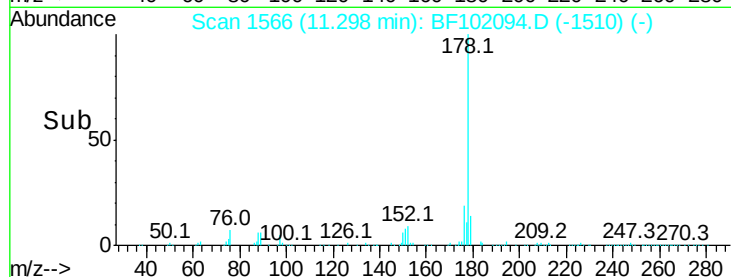


Abundance

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



#74

Fluoranthene

Concen: 6.194 ng

RT: 12.48 min Scan# 1767

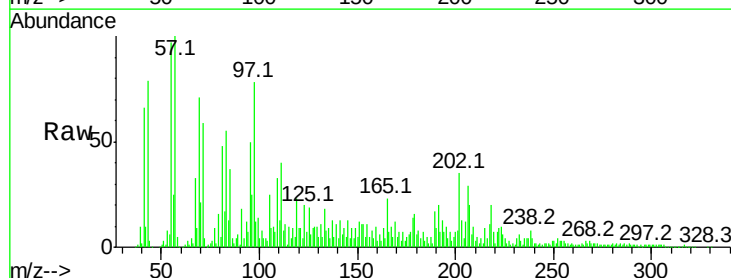
Delta R.T. 0.02 min

Lab File: BF102094.D

Acq: 16 Jan 2018 7:24

Tgt Ion:202 Resp: 70869

Ion	Ratio	Lower	Upper
202	100		
101	23.9	0.0	34.1
203	37.6	0.0	38.1

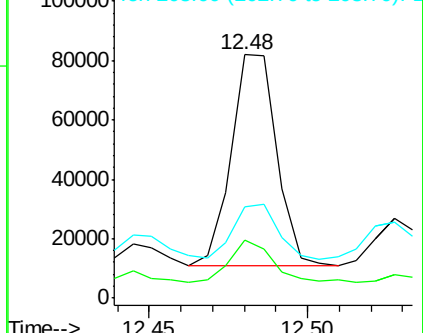
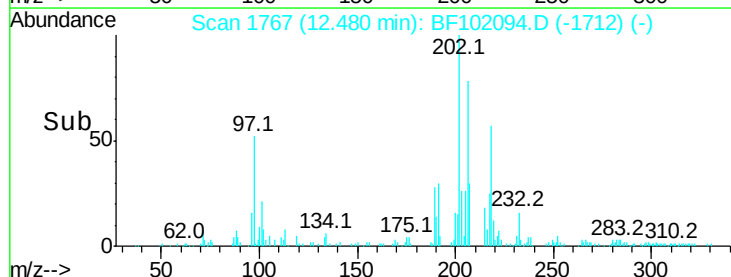


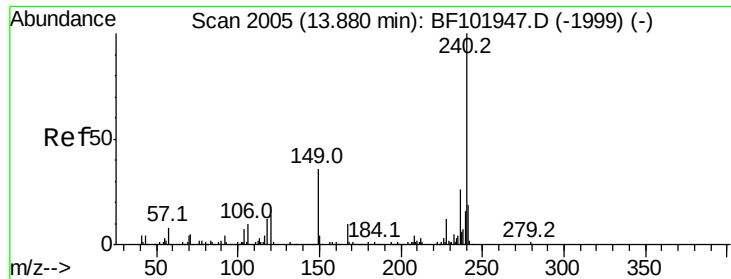
Abundance

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: 20.000 ng

RT: 13.91 min Scan# 2010

Delta R.T. 0.03 min

Lab File: BF102094.D

Acq: 16 Jan 2018 7:24

Instrument :

BNA_F

ClientSampleId :

UST-1 14.5-15.0

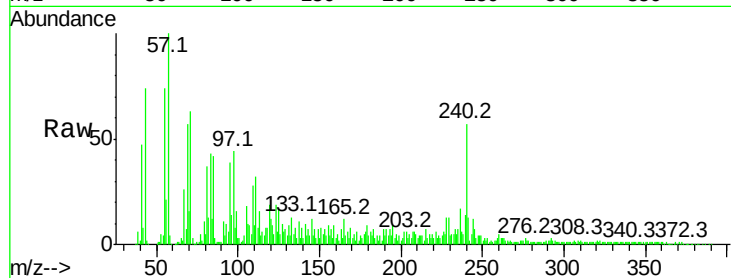
Tot Ion:240 Resp: 170617

Ion Ratio Lower Upper

240 100

120 21.8 9.5 14.3#

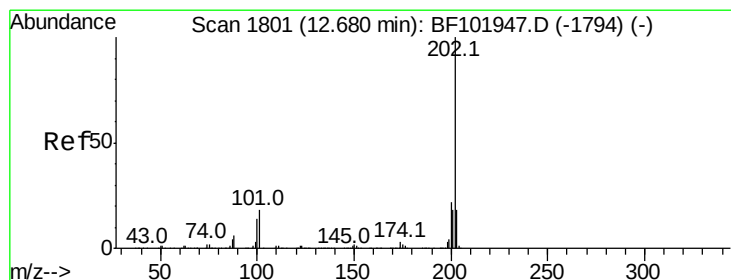
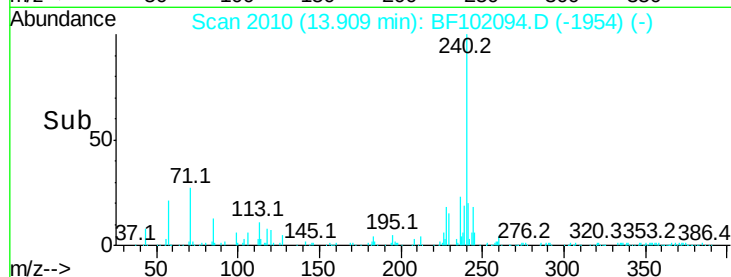
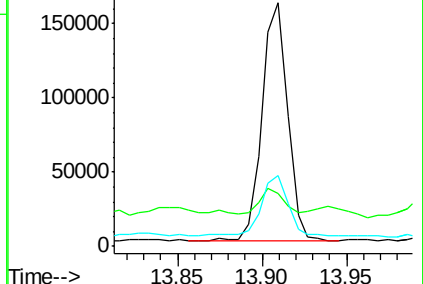
236 29.3 20.7 31.1



Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E



#77

Pyrene

Concen: 19.080 ng

RT: 12.71 min Scan# 1806

Delta R.T. 0.03 min

Lab File: BF102094.D

Acq: 16 Jan 2018 7:24

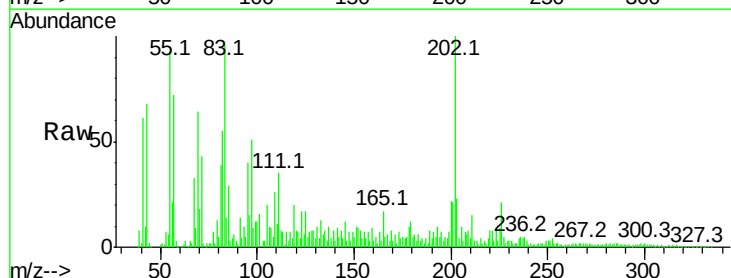
Tgt Ion:202 Resp: 287756

Ion Ratio Lower Upper

202 100

200 22.4 17.4 26.2

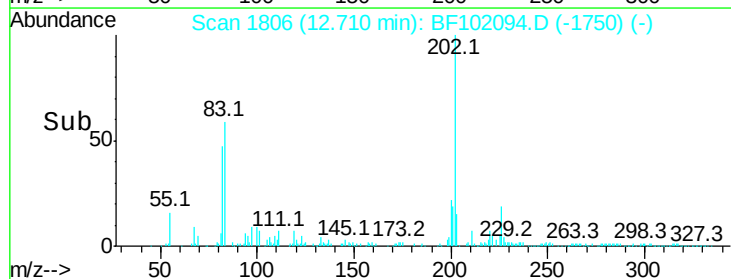
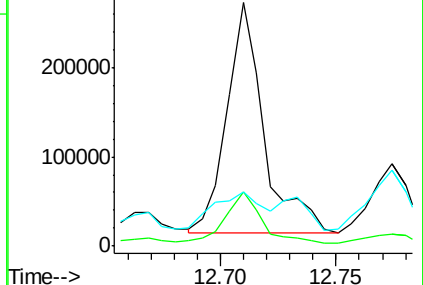
203 22.5 14.3 21.5#

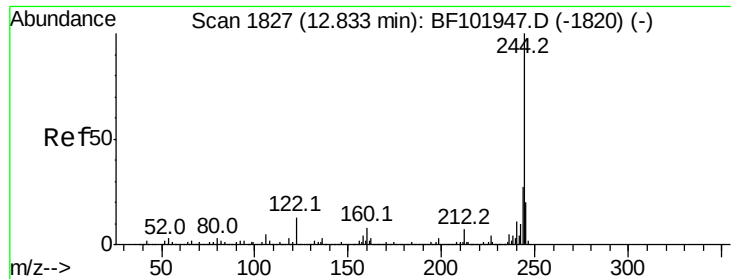


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#78

Terphenyl-d14

Concen: 56.567 ng

RT: 12.86 min Scan# 1831

Delta R.T. 0.02 min

Lab File: BF102094.D

Acq: 16 Jan 2018 7:24

Instrument :

BNA_F

ClientSampleId :

UST-1 14.5-15.0

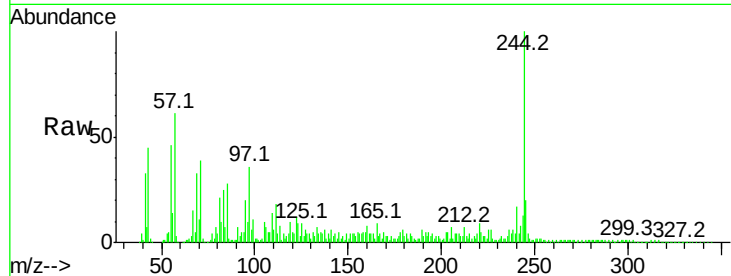
Tot Ion:244 Resp: 464842

Ion Ratio Lower Upper

244 100

212 7.4 5.4 8.0

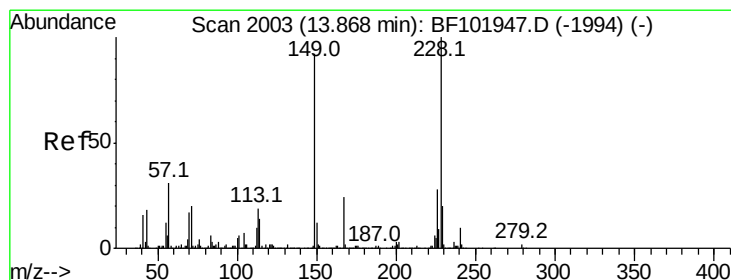
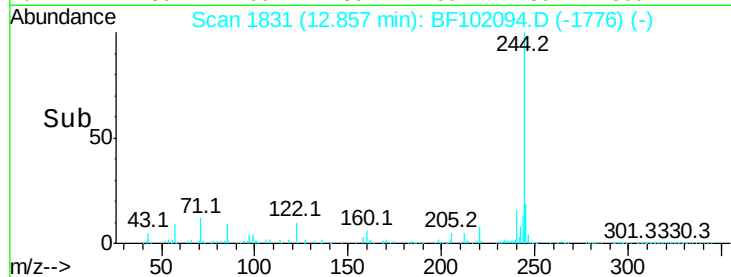
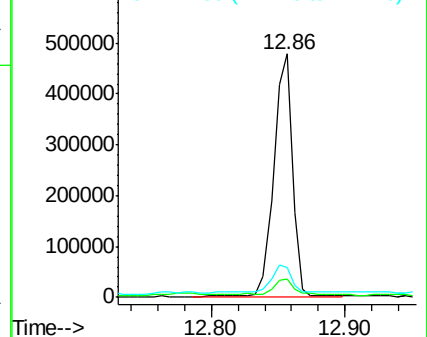
122 12.1 11.0 16.4



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: 5.717 ng

RT: 13.90 min Scan# 2008

Delta R.T. 0.03 min

Lab File: BF102094.D

Acq: 16 Jan 2018 7:24

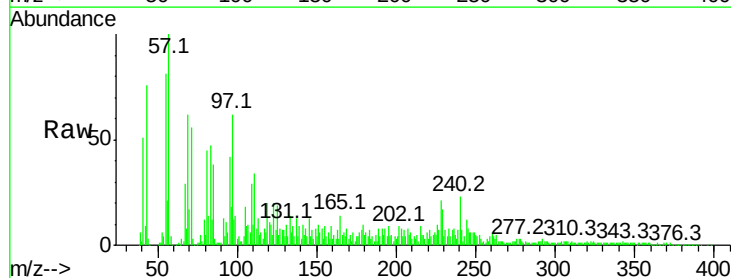
Tgt Ion:228 Resp: 62237

Ion Ratio Lower Upper

228 100

226 45.9 22.6 33.8#

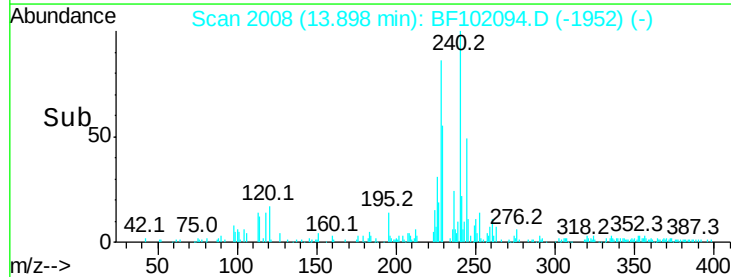
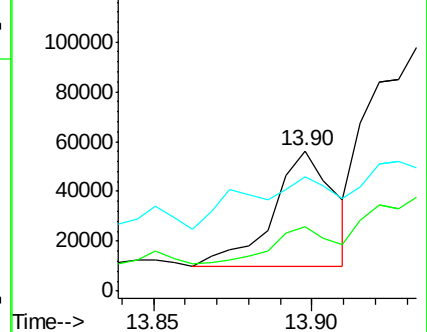
229 81.3 15.8 23.6#

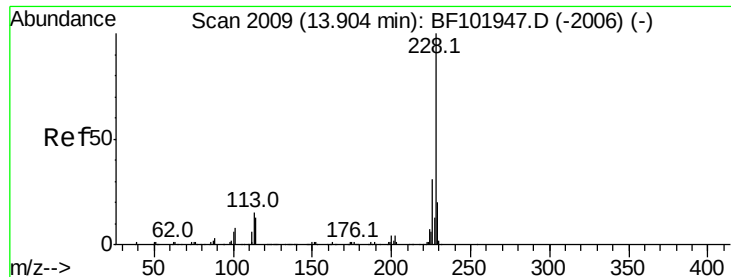


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#82

Chrysene

Concen: 11.251 ng

RT: 13.93 min Scan# 2014

Delta R.T. 0.03 min

Lab File: BF102094.D

Acq: 16 Jan 2018 7:24

Instrument :

BNA_F

ClientSampleId :

UST-1 14.5-15.0

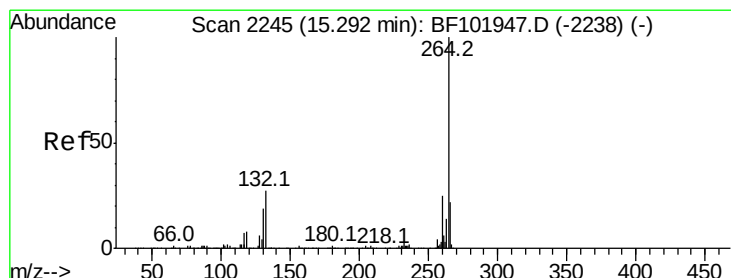
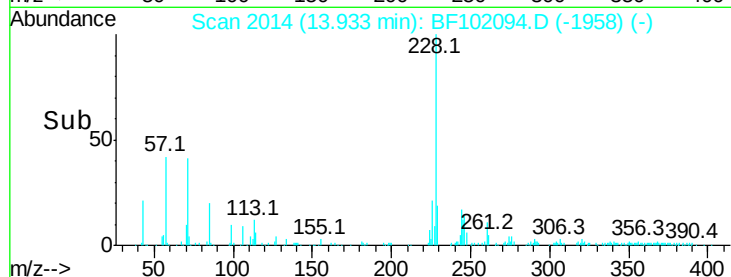
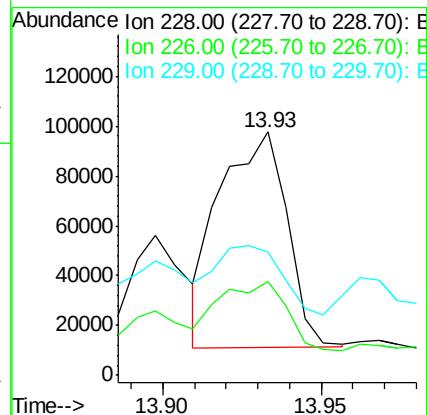
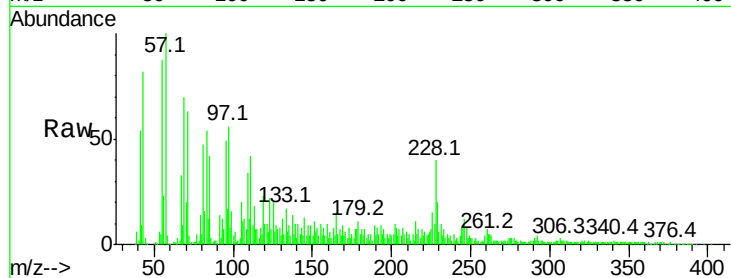
Tot Ion:228 Resp: 127712

Ion Ratio Lower Upper

228 100

226 38.6 25.0 37.6#

229 50.5 16.2 24.4#



#86

Perylene-d12

Concen: 20.000 ng

RT: 15.34 min Scan# 2254

Delta R.T. 0.05 min

Lab File: BF102094.D

Acq: 16 Jan 2018 7:24

Tgt Ion:264 Resp: 131810

Ion Ratio Lower Upper

264 100

260 25.8 19.2 28.8

265 26.1 17.5 26.3

