

Data Path : Z:\HPCHEM1\BNA F\DATA\BF081617\
 Data File : BF097754.D
 Acq On : 16 Aug 2017 22:25
 Operator : SJ/JU
 Sample : I4739-04 5X
 Misc :
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 S11-WC-4

Quant Time: Aug 17 01:28:08 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF081517.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Aug 15 13:25:08 2017
 Response via : Initial Calibration

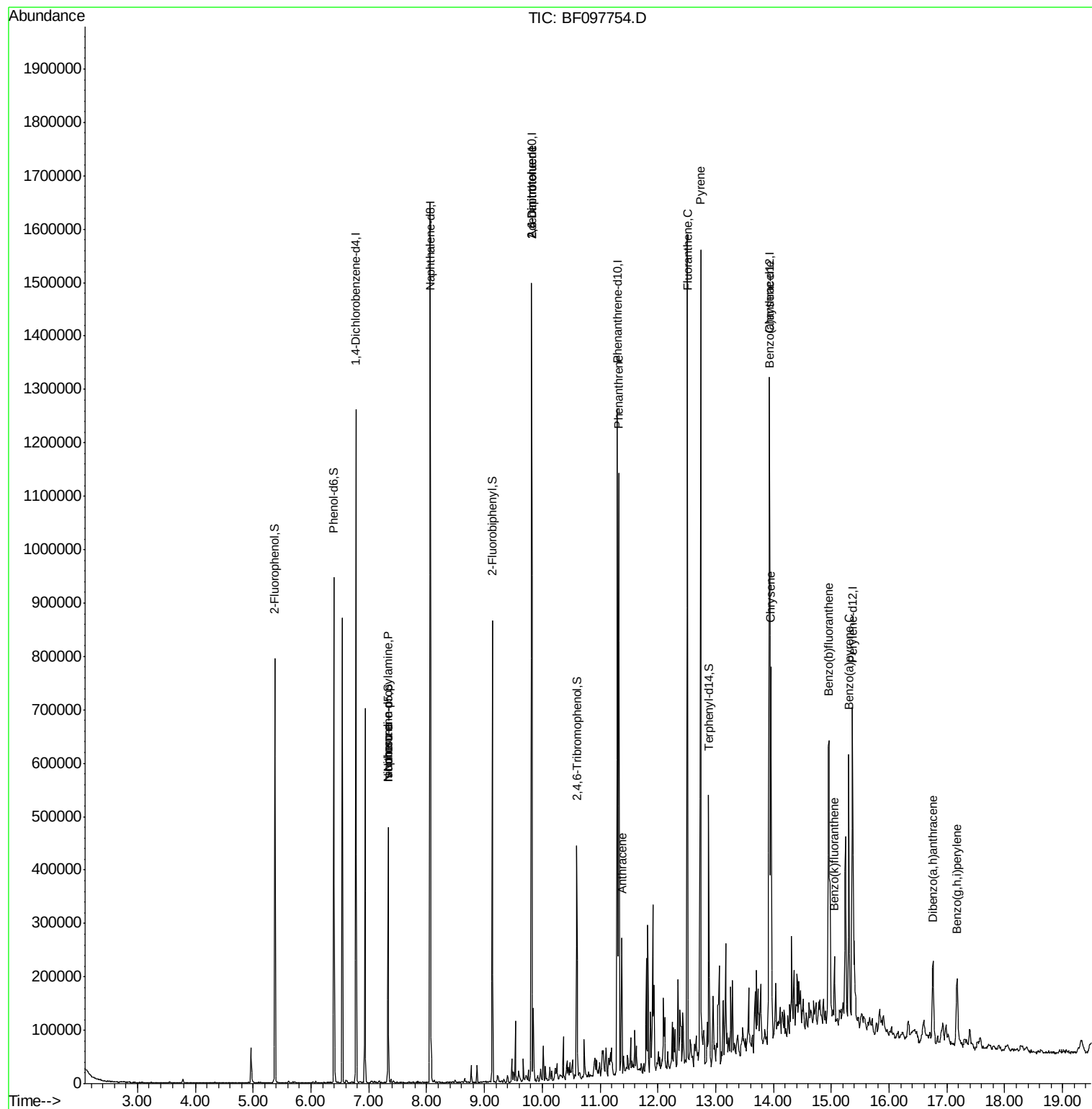
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.78	152	163293	20.00	ng	0.00
21) Naphthalene-d8	8.06	136	625417	20.00	ng	0.00
38) Acenaphthene-d10	9.82	164	258694	20.00	ng	0.00
63) Phenanthrene-d10	11.30	188	397618	20.00	ng	0.00
75) Chrysene-d12	13.93	240	299050	20.00	ng	0.00
86) Perylene-d12	15.37	264	264385	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.37	112	200745	18.70	ng	-0.01
7) Phenol-d6	6.40	99	271366	18.60	ng	-0.01
23) Nitrobenzene-d5	7.34	82	160774	13.97	ng	-0.01
41) 2,4,6-Tribromophenol	10.60	330	33188	14.79	ng	-0.01
44) 2-Fluorobiphenyl	9.14	172	238597	13.55	ng	0.00
78) Terphenyl-d14	12.88	244	130672	9.11	ng	-0.01
Target Compounds						Qvalue
19) n-Nitroso-di-n-propylamine	7.33	70	21238	2.13	ng	# 74
25) Isophorone	7.34	82	160530	6.71	ng	# 67
50) 2,6-Dinitrotoluene	9.82	165	32483	8.61	ng	# 34
56) 2,4-Dinitrotoluene	9.82	165	32483	6.86	ng	# 33
70) Phenanthrene	11.32	178	369355	17.43	ng	98
71) Anthracene	11.37	178	90716	4.22	ng	97
74) Fluoranthene	12.51	202	543681	24.58	ng	98
77) Pyrene	12.74	202	585150	23.92	ng	98
80) Benzo(a)anthracene	13.92	228	274771	15.33	ng	98
82) Chrysene	13.96	228	245600	13.77	ng	97
87) Benzo(b)fluoranthene	14.96	252	375836	22.55	ng	99
88) Benzo(k)fluoranthene	15.06	252	43589	2.78	ng	94
89) Benzo(a)pyrene	15.30	252	219674	14.89	ng	98
90) Dibenzo(a,h)anthracene	16.77	278	25742	2.14	ng	93
91) Benzo(a,h,i)perylene	17.17	276	93973	7.50	ng	93

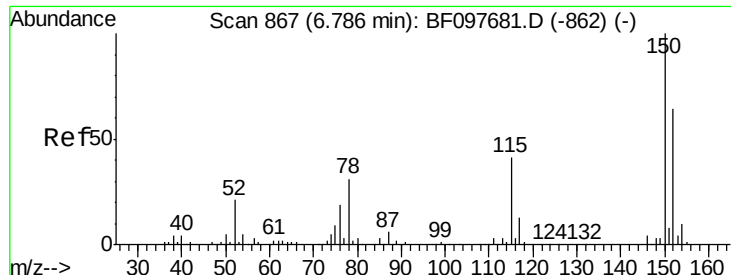
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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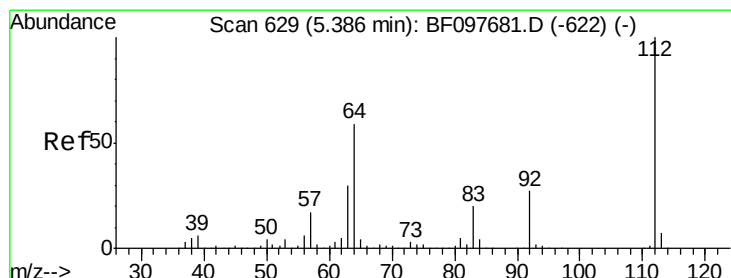
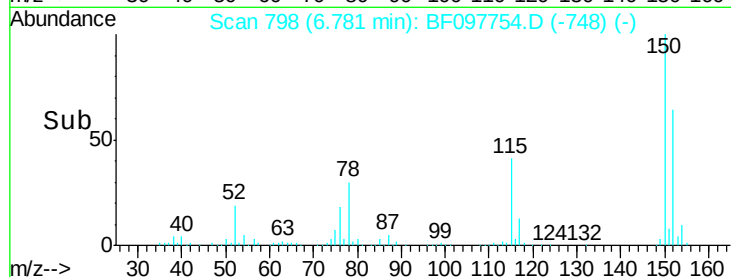
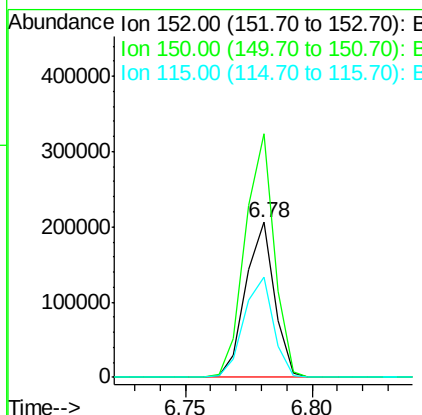
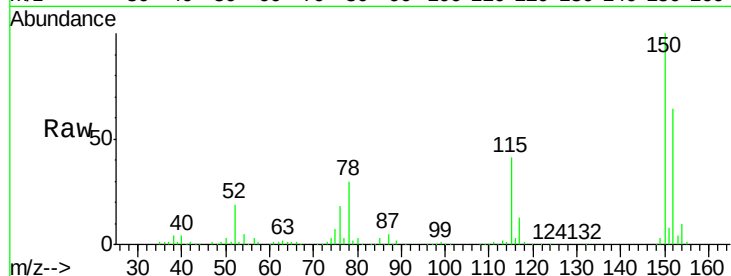


#1

1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 6.78 min Scan# 798
Delta R.T. -0.01 min
Lab File: BF097754.D
Acq: 16 Aug 2017 22:25

Instrument :
BNA_F
ClientSampleId :
S11-WC-4

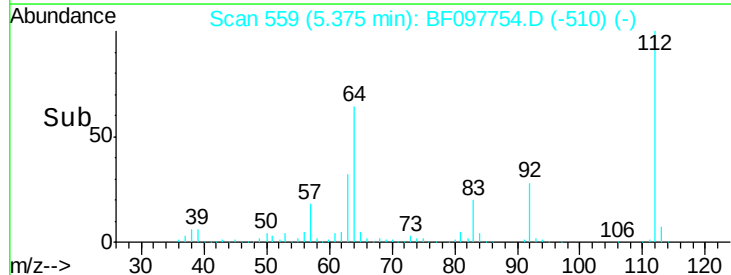
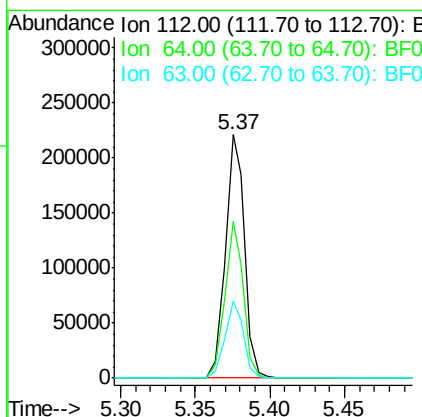
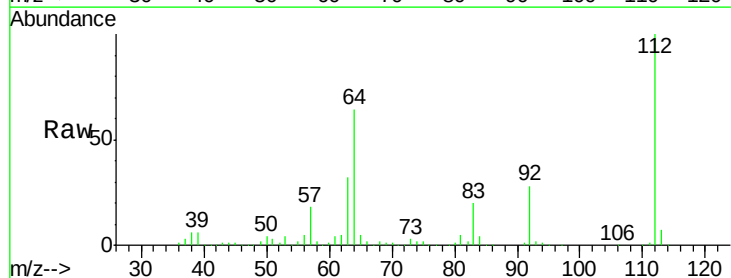
Tot Ion:152 Resp: 163293
Ion Ratio Lower Upper
152 100
150 157.2 126.2 189.2
115 65.1 52.2 78.2

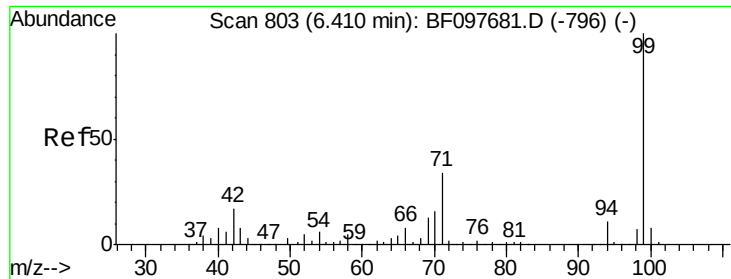


#5

2-Fluorophenol
Concen: 18.70 ng
RT: 5.37 min Scan# 559
Delta R.T. -0.01 min
Lab File: BF097754.D
Acq: 16 Aug 2017 22:25

Tgt Ion:112 Resp: 200745
Ion Ratio Lower Upper
112 100
64 64.4 46.0 69.0
63 31.9 23.4 35.0





#7

Phenol-d6

Concen: 18.60 ng

RT: 6.40 min Scan# 733

Delta R.T. -0.01 min

Lab File: BF097754.D

Acq: 16 Aug 2017 22:25

Instrument :

BNA_F

ClientSampleId :

S11-WC-4

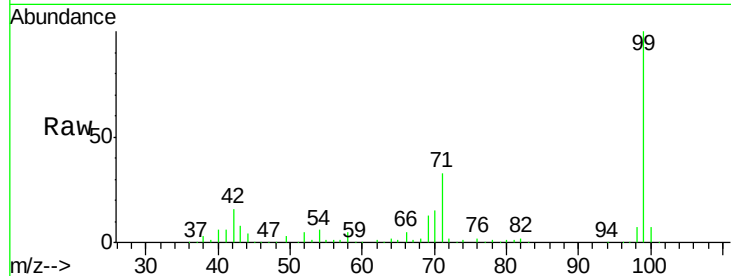
Tot Ion: 99 Resp: 271366

Ion Ratio Lower Upper

99 100

42 15.7 13.5 20.3

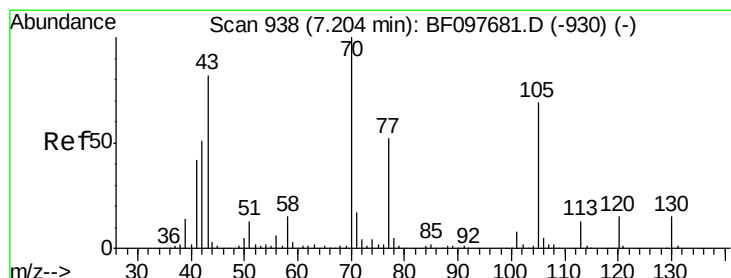
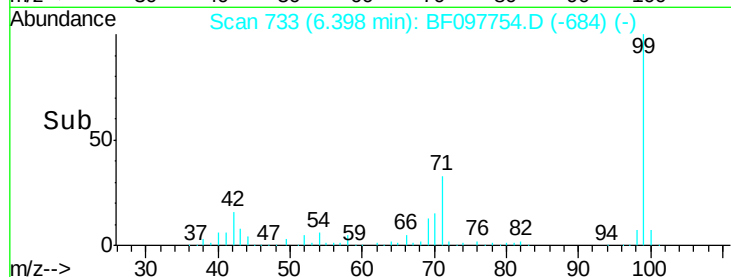
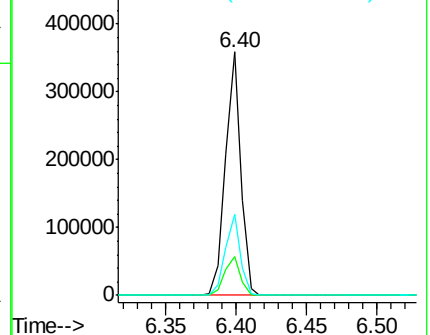
71 33.4 24.5 36.7



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



#19

n-Nitroso-di-n-propylamine

Concen: 2.13 ng

RT: 7.33 min Scan# 892

Delta R.T. 0.13 min

Lab File: BF097754.D

Acq: 16 Aug 2017 22:25

Tgt Ion: 70 Resp: 21238

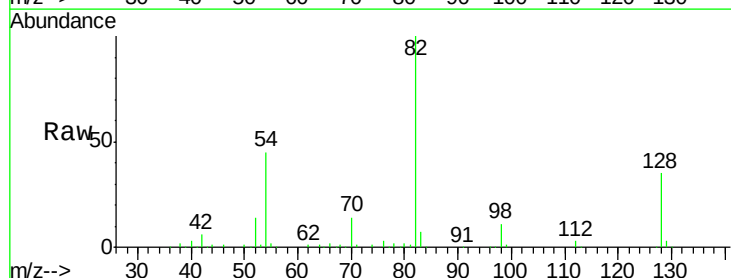
Ion Ratio Lower Upper

70 100

42 42.7 47.2 70.8#

101 0.0 7.2 10.8#

130 2.2 15.9 23.9#

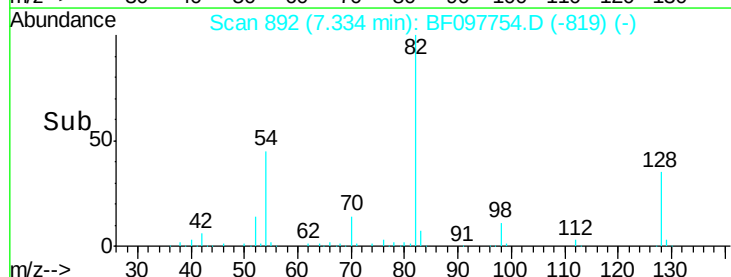
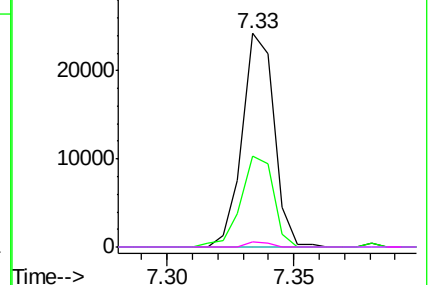


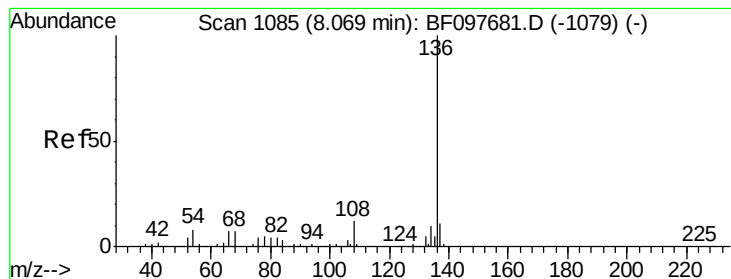
Abundance Ion 70.00 (69.70 to 70.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 101.00 (100.70 to 101.70): BF0

Ion 130.00 (129.70 to 130.70): BF0





#21

Naphthalene-d8

Concen: 20.00 ng

RT: 8.06 min Scan# 1016

Delta R.T. -0.01 min

Lab File: BF097754.D

Acq: 16 Aug 2017 22:25

Instrument :

BNA_F

ClientSampleId :

S11-WC-4

Tot Ion:136 Resp: 625417

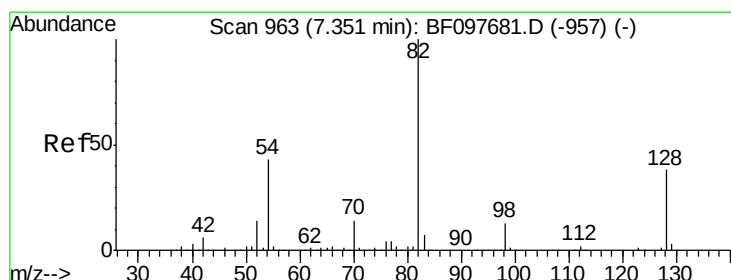
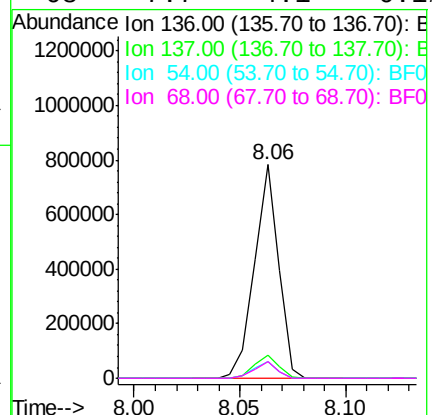
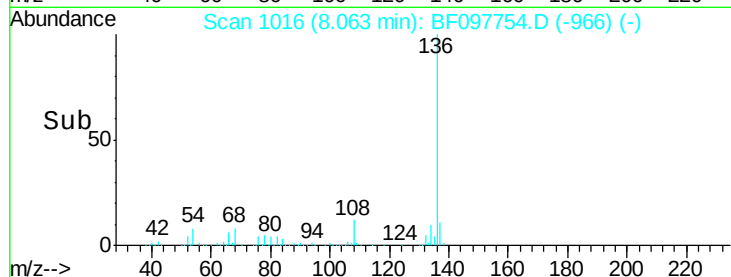
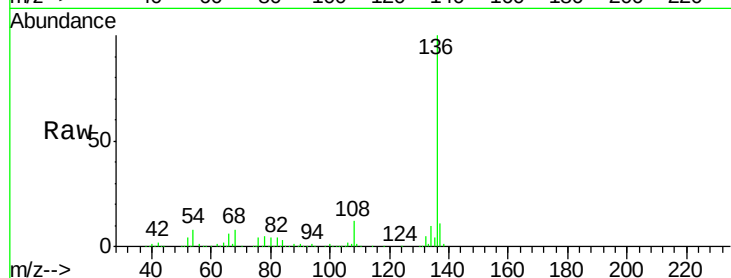
Ion Ratio Lower Upper

136 100

137 11.1 8.5 12.7

54 7.7 4.9 7.3#

68 7.7 4.1 6.1#



#23

Nitrobenzene-d5

Concen: 13.97 ng

RT: 7.34 min Scan# 893

Delta R.T. -0.01 min

Lab File: BF097754.D

Acq: 16 Aug 2017 22:25

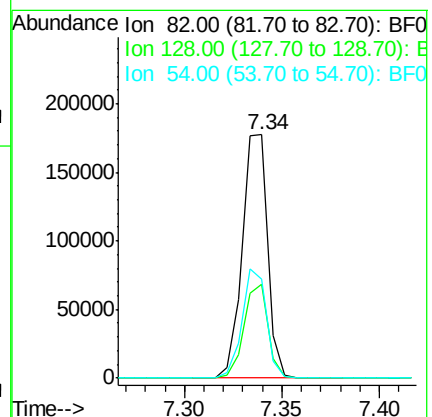
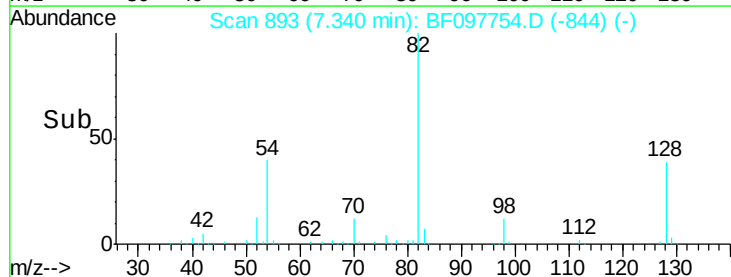
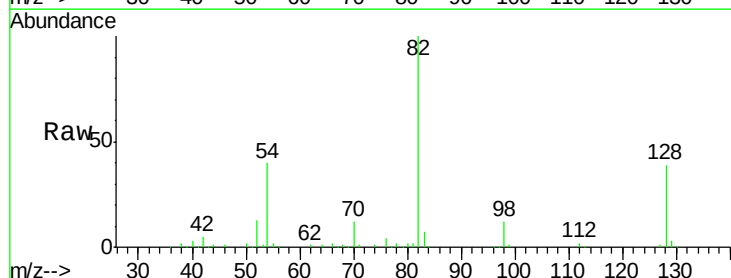
Tgt Ion: 82 Resp: 160774

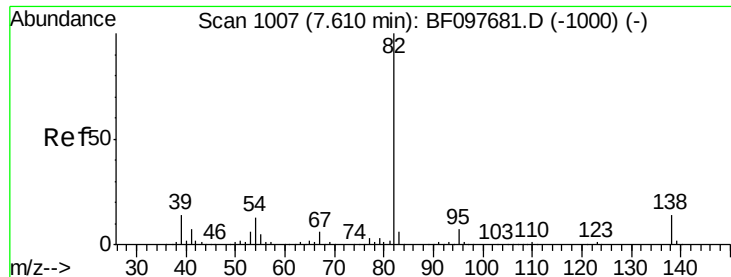
Ion Ratio Lower Upper

82 100

128 38.5 34.0 51.0

54 40.5 42.2 63.2#





#25

Isophorone

Concen: 6.71 ng

RT: 7.34 min Scan# 893

Delta R.T. -0.27 min

Lab File: BF097754.D

Acq: 16 Aug 2017 22:25

Instrument :

BNA_F

ClientSampleId :

S11-WC-4

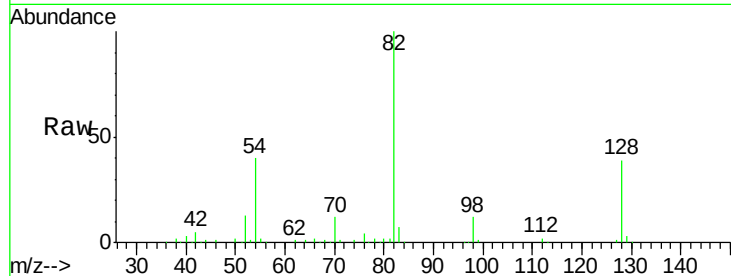
Tot Ion: 82 Resp: 160530

Ion Ratio Lower Upper

82 100

95 0.0 5.3 7.9#

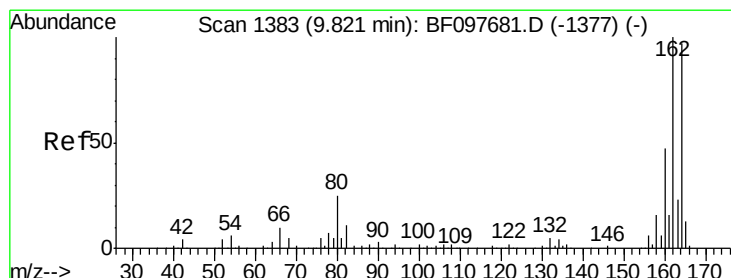
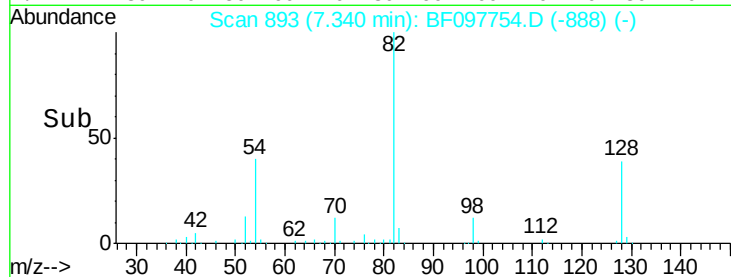
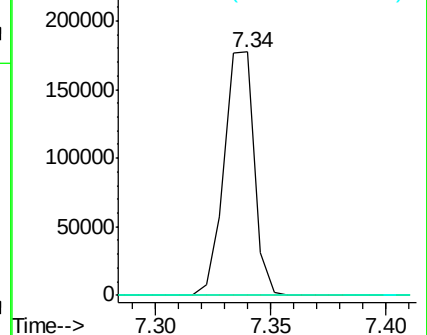
138 0.0 13.1 19.7#



Abundance Ion 82.00 (81.70 to 82.70): BF0

Ion 95.00 (94.70 to 95.70): BF0

Ion 138.00 (137.70 to 138.70): BF0



#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.82 min Scan# 1314

Delta R.T. -0.01 min

Lab File: BF097754.D

Acq: 16 Aug 2017 22:25

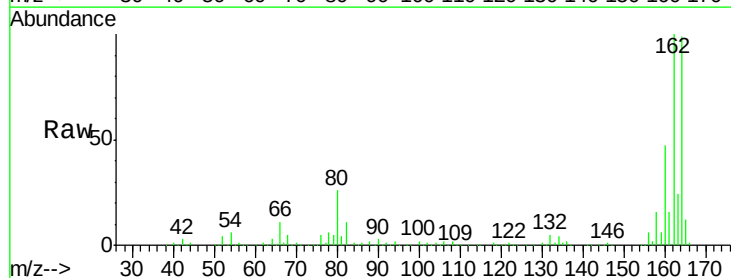
Tgt Ion:164 Resp: 258694

Ion Ratio Lower Upper

164 100

162 101.2 82.6 123.8

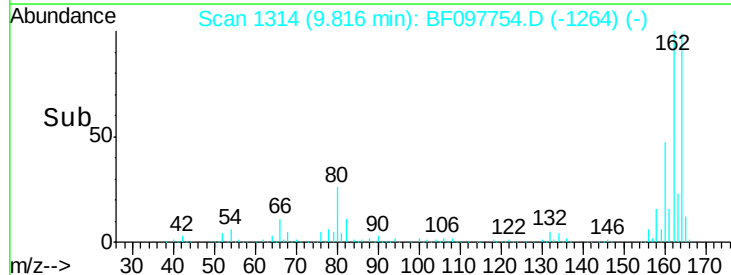
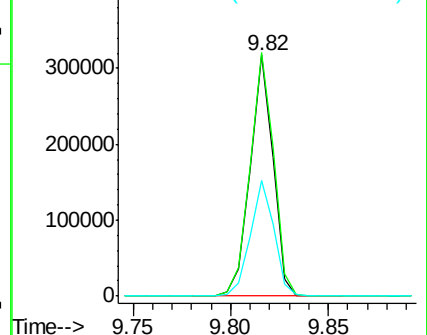
160 47.8 36.2 54.2

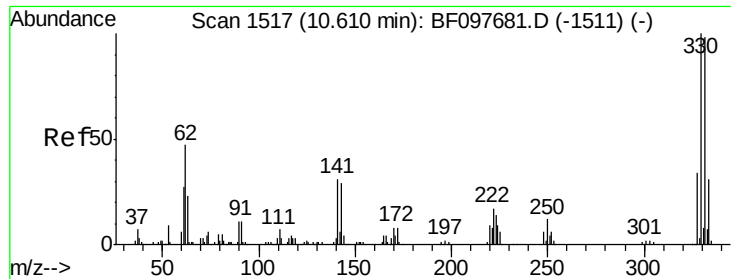


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E





#41

2,4,6-Tribromophenol

Concen: 14.79 ng

RT: 10.60 min Scan# 1447

Delta R.T. -0.01 min

Lab File: BF097754.D

Acq: 16 Aug 2017 22:25

Instrument :

BNA_F

ClientSampled :

S11-WC-4

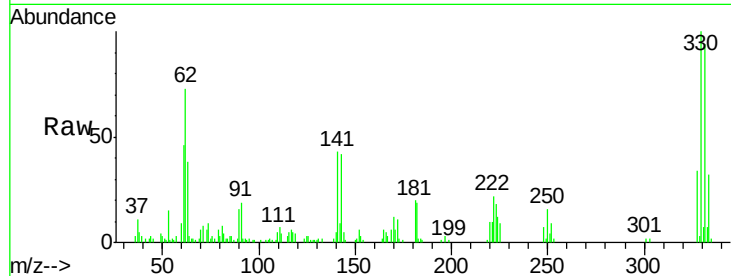
Tot Ion:330 Resp: 33188

Ion Ratio Lower Upper

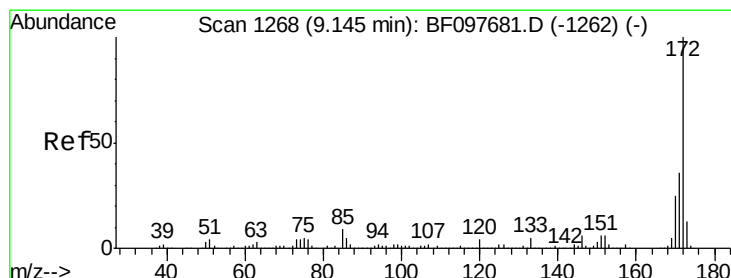
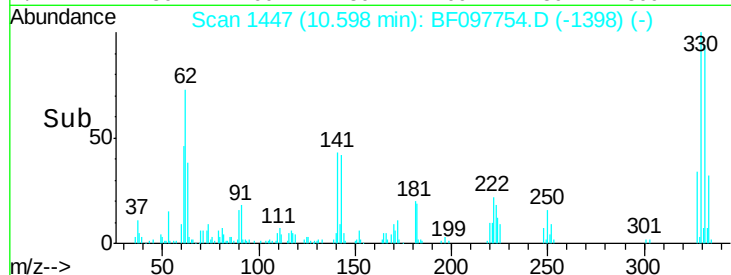
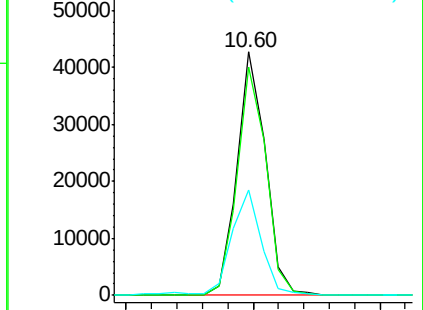
330 100

332 95.4 76.6 115.0

141 45.2 31.4 47.2



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: 13.55 ng

RT: 9.14 min Scan# 1199

Delta R.T. -0.01 min

Lab File: BF097754.D

Acq: 16 Aug 2017 22:25

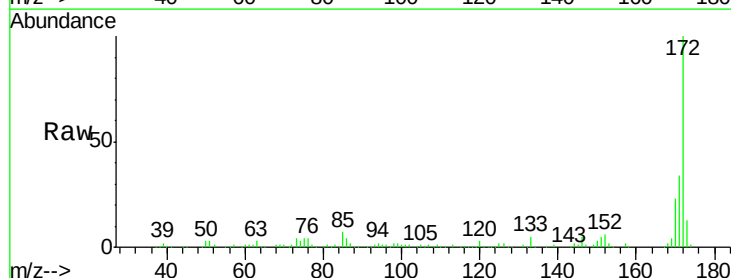
Tgt Ion:172 Resp: 238597

Ion Ratio Lower Upper

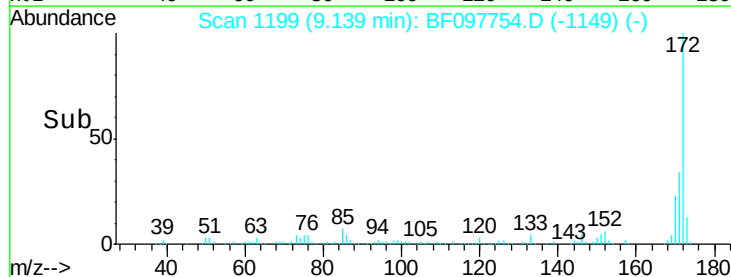
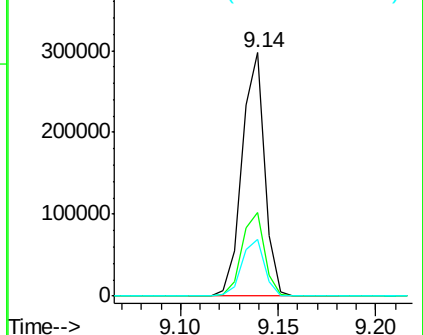
172 100

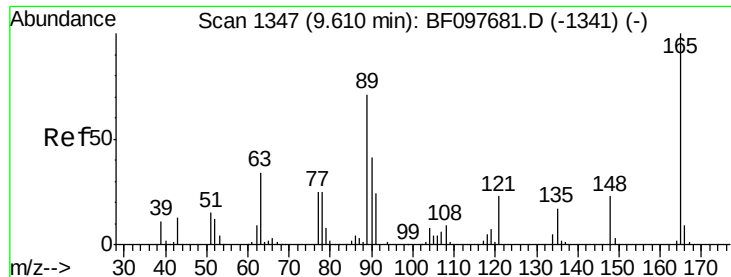
171 34.1 29.6 44.4

170 23.1 19.8 29.8



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

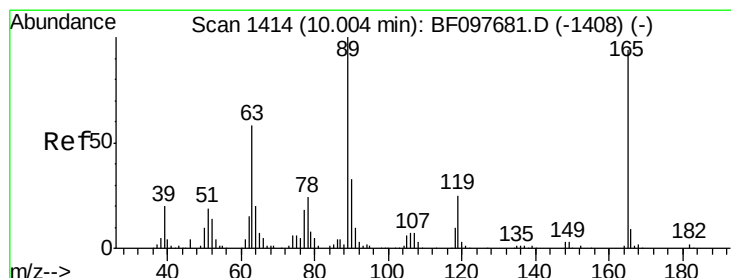
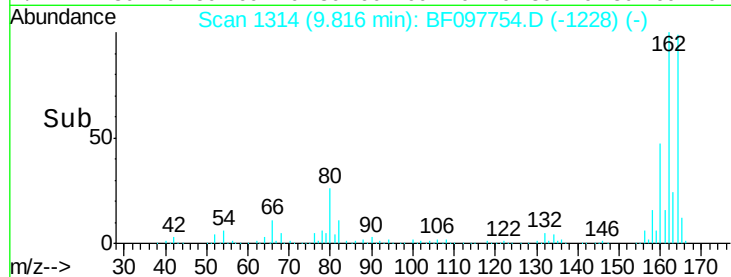
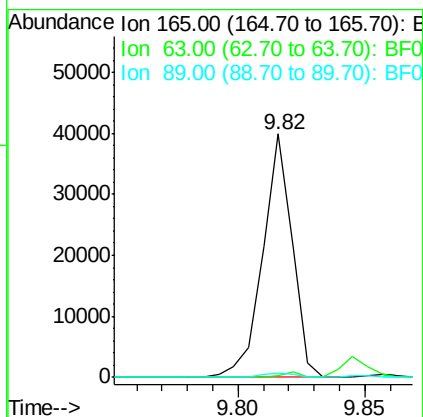
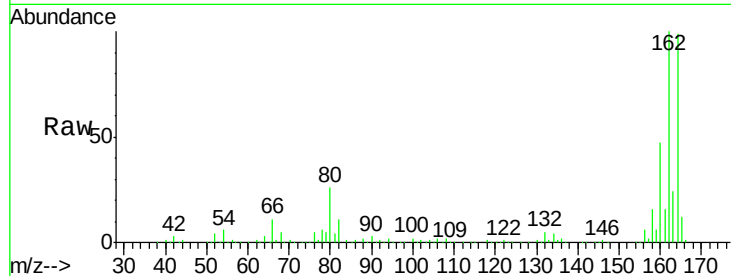




#50
 2,6-Dinitrotoluene
 Concen: 8.61 ng
 RT: 9.82 min Scan# 1314
 Delta R.T. 0.21 min
 Lab File: BF097754.D
 Acq: 16 Aug 2017 22:25

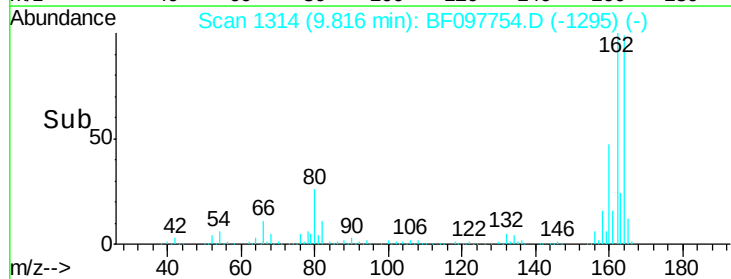
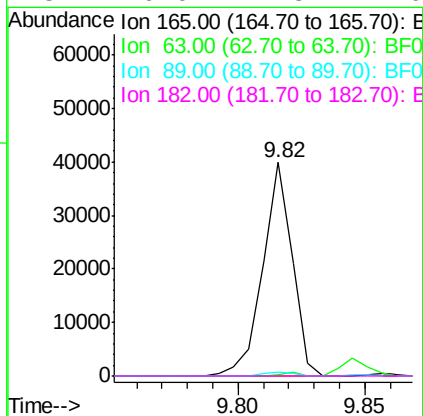
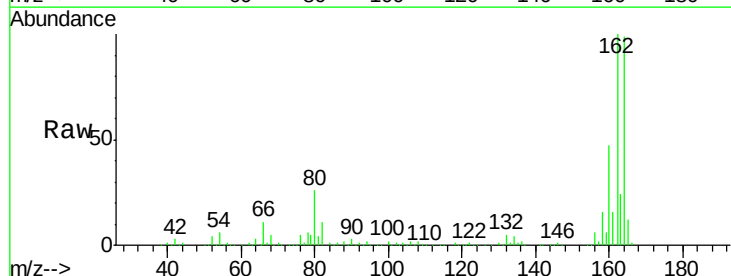
Instrument :
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 S11-WC-4

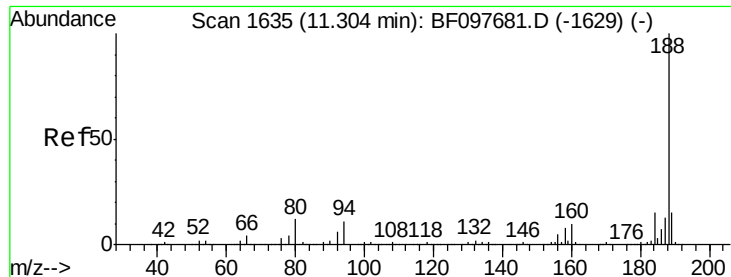
Tot Ion	Ratio	Lower	Upper
165	100		
63	0.9	34.3	51.5#
89	1.9	37.1	55.7#



#56
 2,4-Dinitrotoluene
 Concen: 6.86 ng
 RT: 9.82 min Scan# 1314
 Delta R.T. -0.19 min
 Lab File: BF097754.D
 Acq: 16 Aug 2017 22:25

Tgt Ion	Ratio	Lower	Upper
165	100		
63	0.9	25.4	38.0#
89	1.9	46.4	69.6#
182	0.0	1.8	2.6#

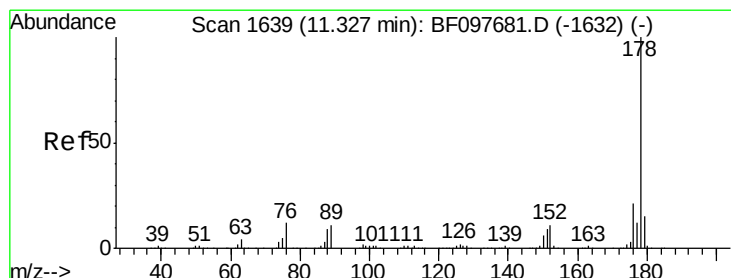
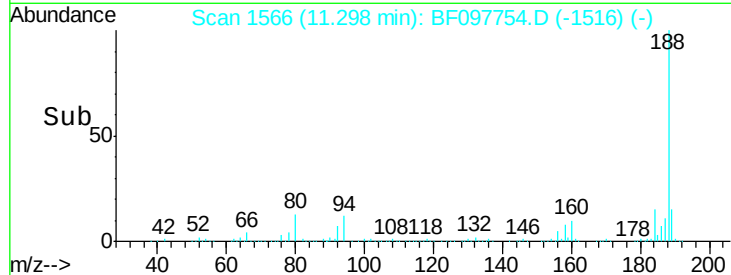
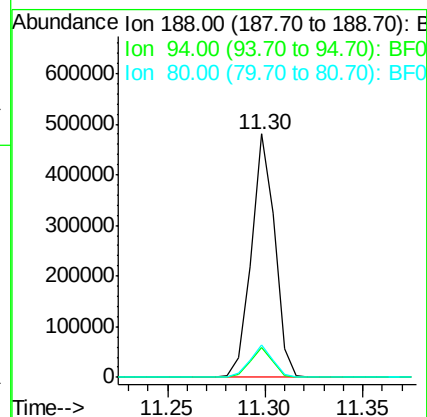
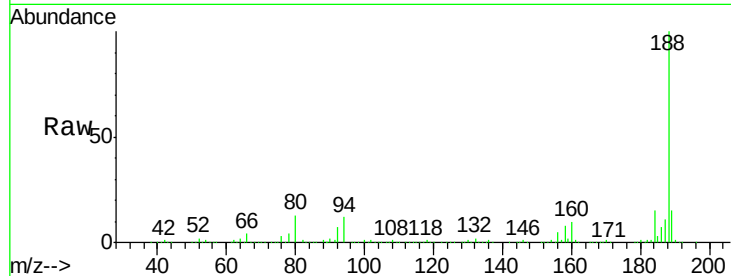




#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 11.30 min Scan# 1566
Delta R.T. -0.01 min
Lab File: BF097754.D
Acq: 16 Aug 2017 22:25

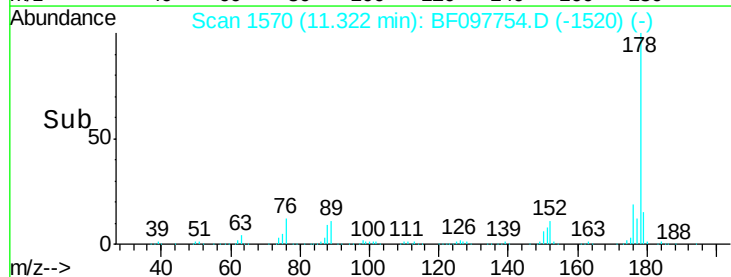
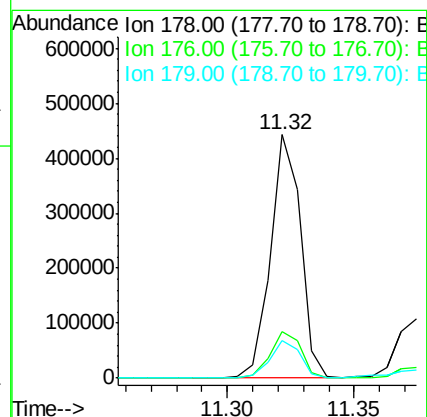
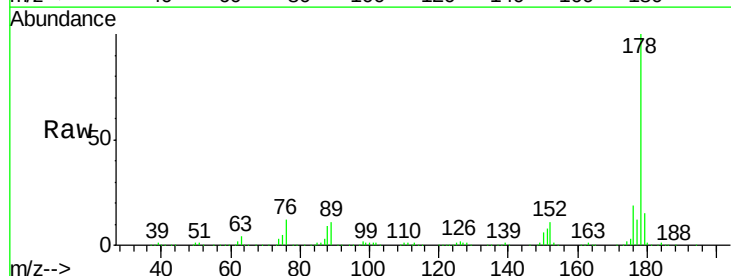
Instrument :
BNA_F
ClientSampleId :
S11-WC-4

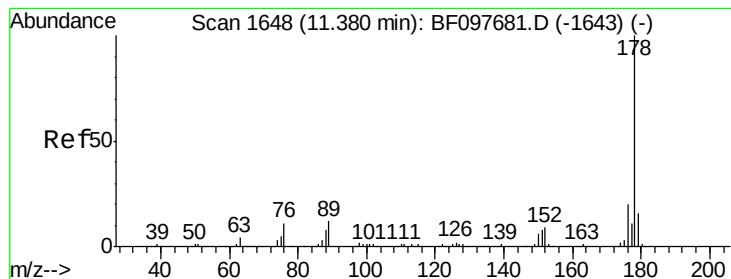
Tot Ion:188 Resp: 397618
Ion Ratio Lower Upper
188 100
94 12.1 9.4 14.2
80 13.4 10.2 15.2



#70
Phenanthrene
Concen: 17.43 ng
RT: 11.32 min Scan# 1570
Delta R.T. -0.01 min
Lab File: BF097754.D
Acq: 16 Aug 2017 22:25

Tgt Ion:178 Resp: 369355
Ion Ratio Lower Upper
178 100
176 19.1 16.2 24.4
179 15.3 12.6 19.0





#71

Anthracene

Concen: 4.22 ng

RT: 11.37 min Scan# 1579

Delta R.T. -0.01 min

Lab File: BF097754.D

Acq: 16 Aug 2017 22:25

Instrument :

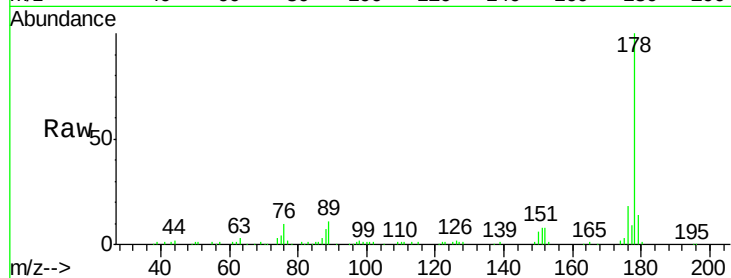
BNA_F

ClientSampled :

S11-WC-4

Tot Ion:178 Resp: 90716

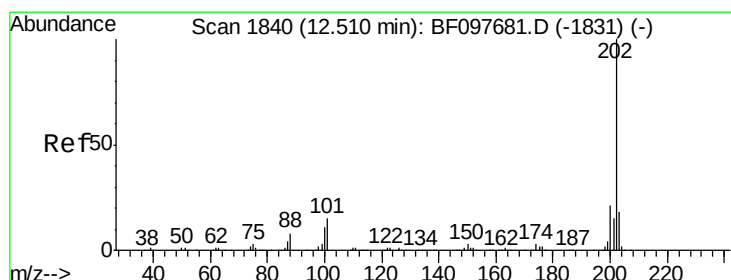
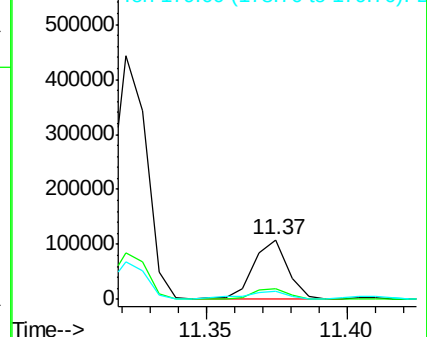
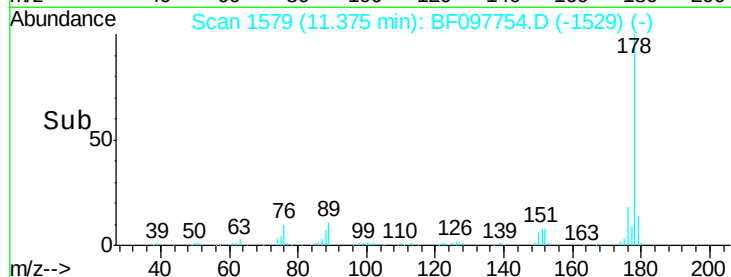
Ion	Ratio	Lower	Upper
178	100		
176	18.4	15.8	23.8
179	14.3	12.7	19.1



Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#74

Fluoranthene

Concen: 24.58 ng

RT: 12.51 min Scan# 1772

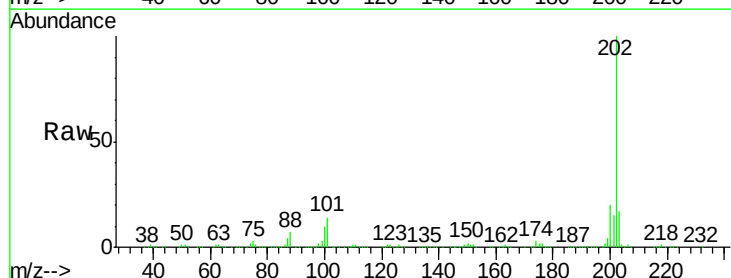
Delta R.T. 0.00 min

Lab File: BF097754.D

Acq: 16 Aug 2017 22:25

Tgt Ion:202 Resp: 543681

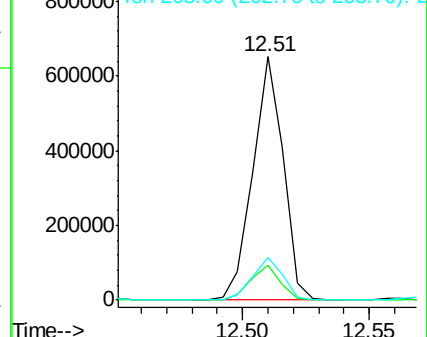
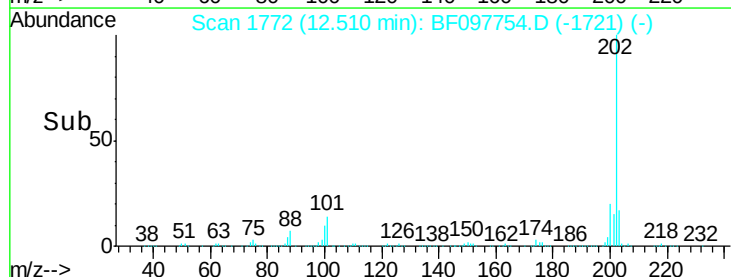
Ion	Ratio	Lower	Upper
202	100		
101	14.2	0.0	33.2
203	17.3	0.0	38.1

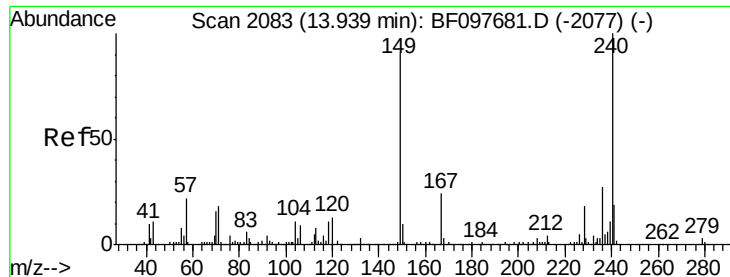


Abundance Ion 202.00 (201.70 to 202.70): E

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: 13.93 min Scan# 2014

Delta R.T. -0.01 min

Lab File: BF097754.D

Acq: 16 Aug 2017 22:25

Instrument :

BNA_F

ClientSampleId :

S11-WC-4

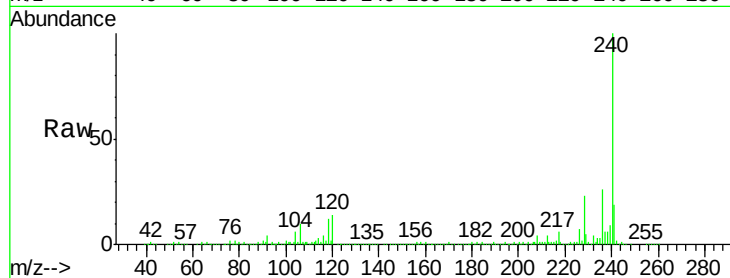
Tot Ion:240 Resp: 299050

Ion Ratio Lower Upper

240 100

120 13.7 5.8 8.8#

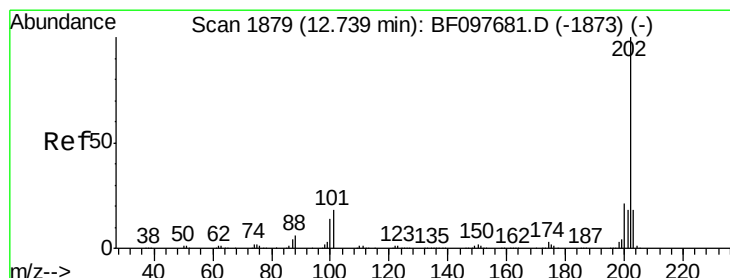
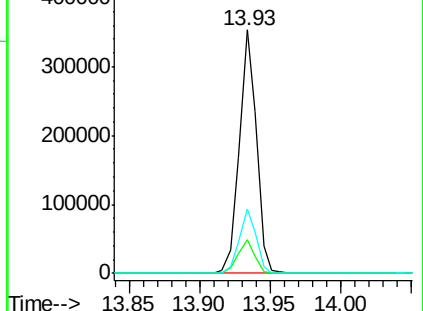
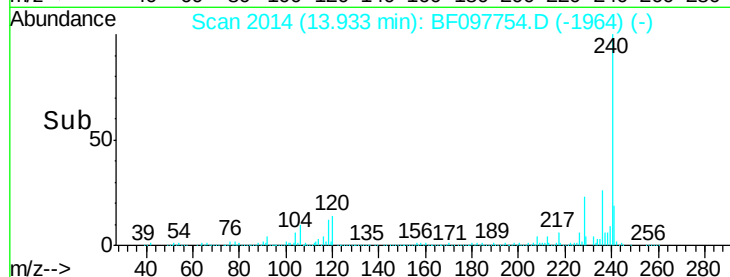
236 26.5 20.5 30.7



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

Pyrene

Concen: 23.92 ng

RT: 12.74 min Scan# 1811

Delta R.T. 0.00 min

Lab File: BF097754.D

Acq: 16 Aug 2017 22:25

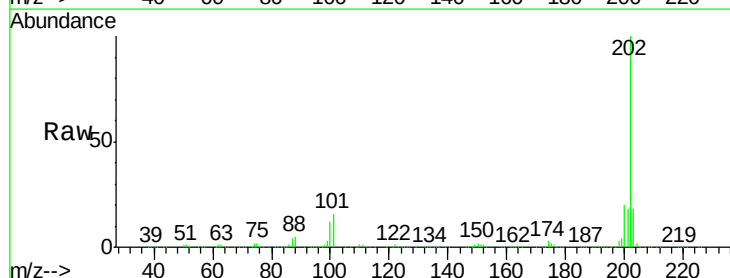
Tgt Ion:202 Resp: 585150

Ion Ratio Lower Upper

202 100

200 20.5 17.6 26.4

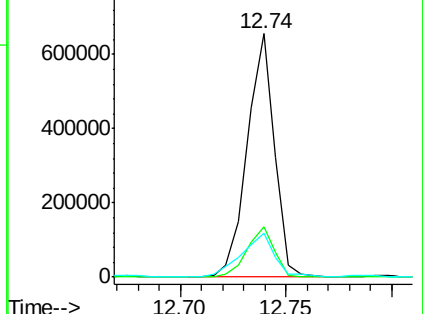
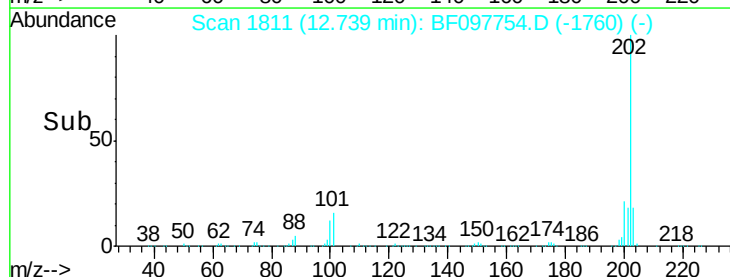
203 17.8 14.4 21.6

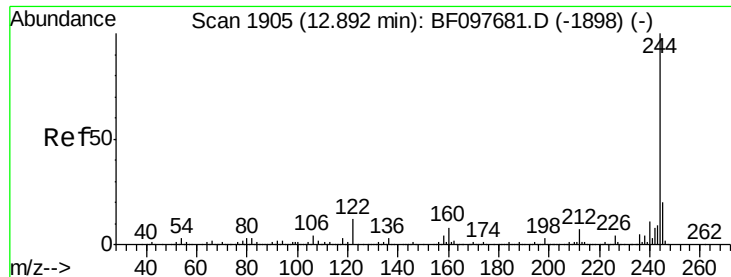


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#78

Terphenyl-d14

Concen: 9.11 ng

RT: 12.88 min Scan# 1835

Delta R.T. -0.01 min

Lab File: BF097754.D

Acq: 16 Aug 2017 22:25

Instrument :

BNA_F

ClientSampleId :

S11-WC-4

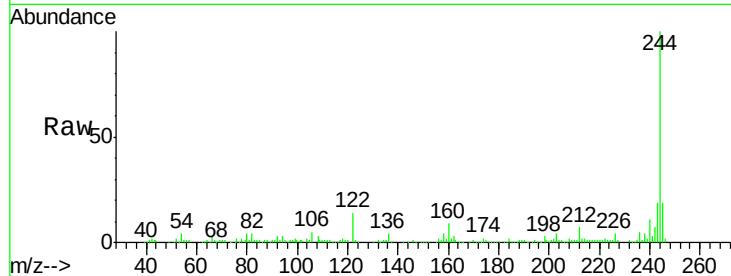
Tot Ion:244 Resp: 130672

Ion Ratio Lower Upper

244 100

212 7.4 6.0 9.0

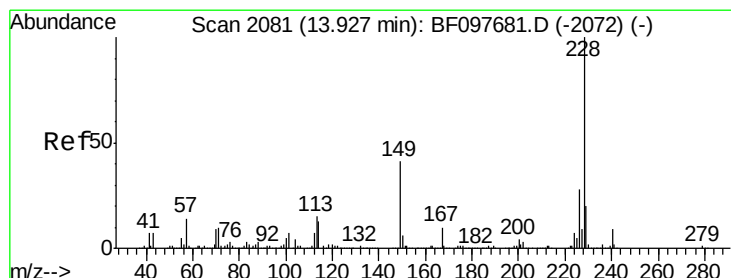
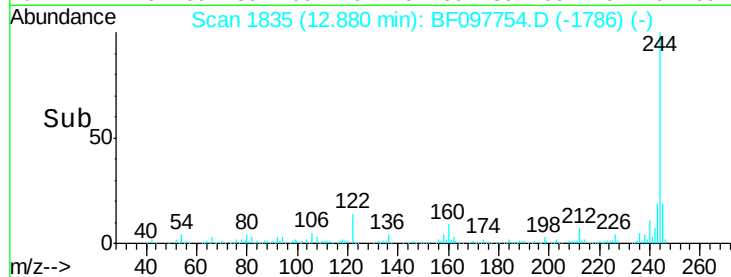
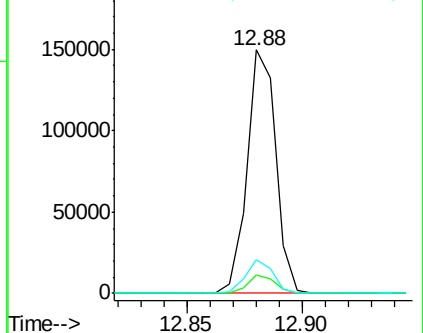
122 13.8 10.3 15.5



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: 15.33 ng

RT: 13.92 min Scan# 2012

Delta R.T. -0.01 min

Lab File: BF097754.D

Acq: 16 Aug 2017 22:25

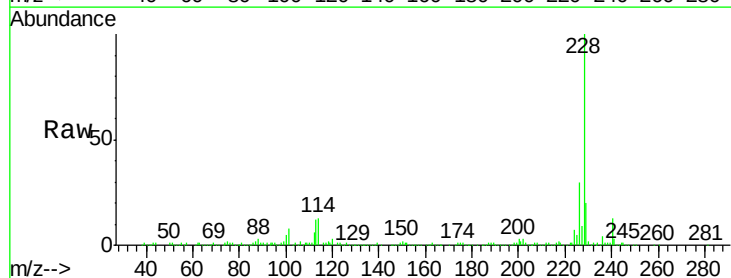
Tgt Ion:228 Resp: 274771

Ion Ratio Lower Upper

228 100

226 30.0 22.6 33.8

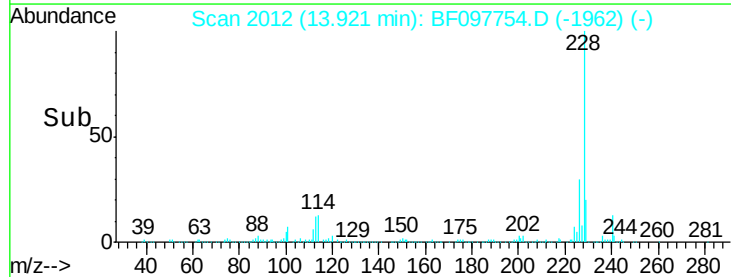
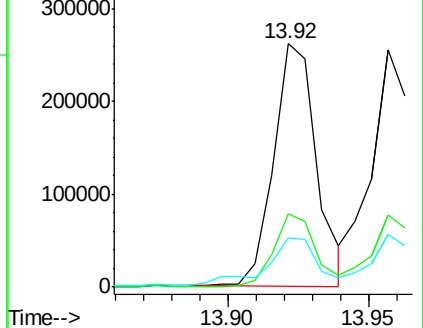
229 20.3 16.3 24.5

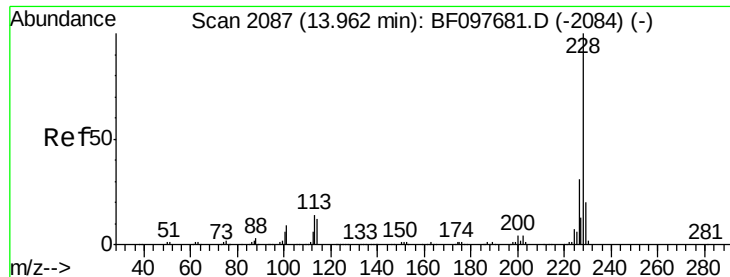


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#82

Chrysene

Concen: 13.77 ng

RT: 13.96 min Scan# 2018

Delta R.T. -0.01 min

Lab File: BF097754.D

Acq: 16 Aug 2017 22:25

Instrument :

BNA_F

ClientSampleId :

S11-WC-4

Tot Ion:228 Resp: 245600

Ion Ratio Lower Upper

228 100

226 30.4 24.9 37.3

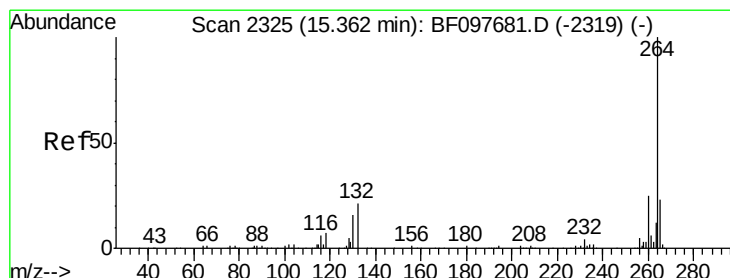
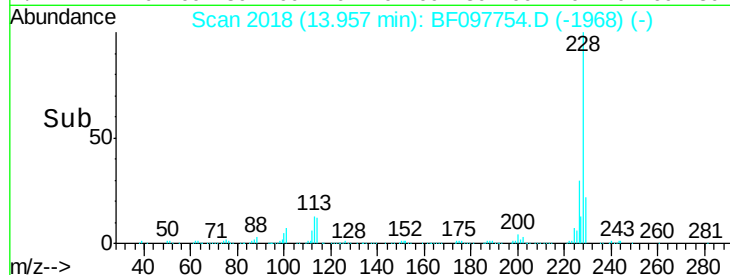
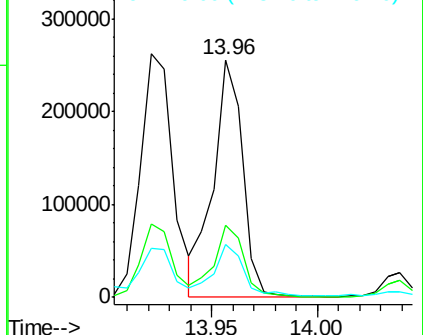
229 22.2 15.8 23.6



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



#86

Perylene-d12

Concen: 20.00 ng

RT: 15.37 min Scan# 2258

Delta R.T. 0.01 min

Lab File: BF097754.D

Acq: 16 Aug 2017 22:25

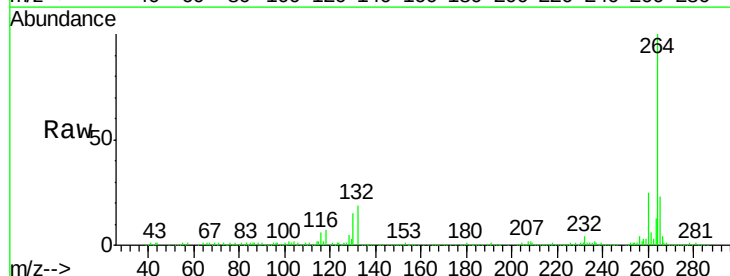
Tgt Ion:264 Resp: 264385

Ion Ratio Lower Upper

264 100

260 25.1 19.5 29.3

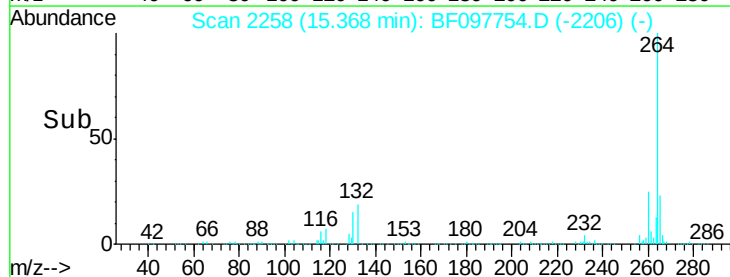
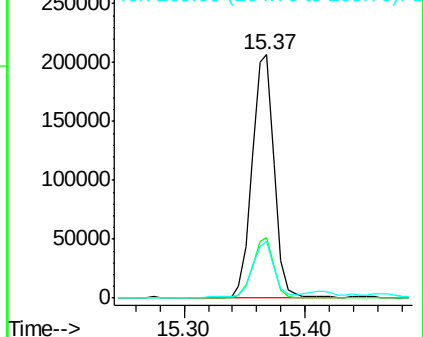
265 23.2 17.2 25.8

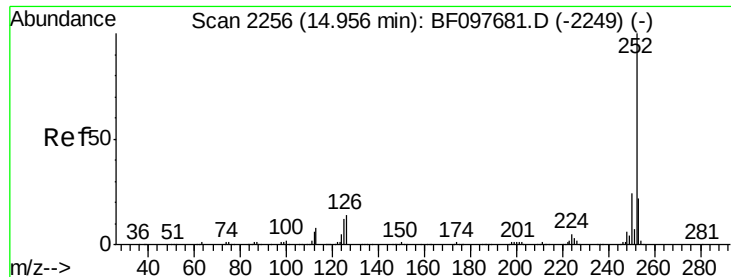


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E

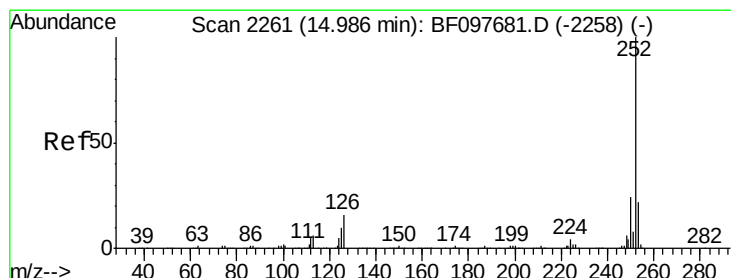
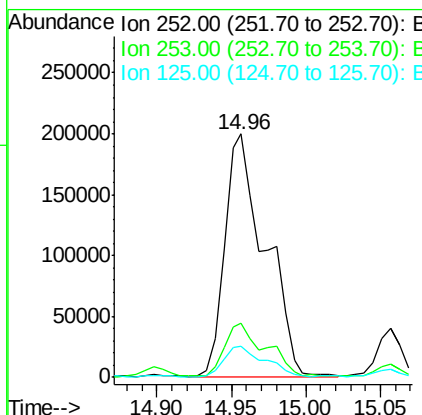
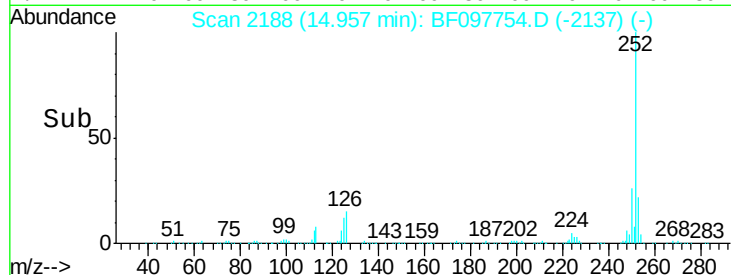
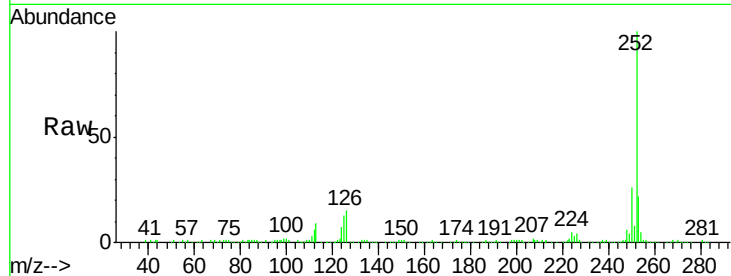




#87
Benzo(b)fluoranthene
Concen: 22.55 ng
RT: 14.96 min Scan# 2188
Delta R.T. 0.00 min
Lab File: BF097754.D
Acq: 16 Aug 2017 22:25

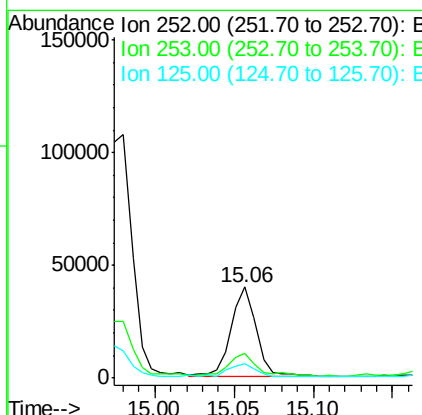
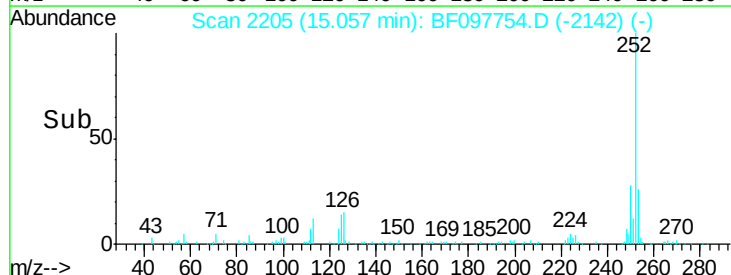
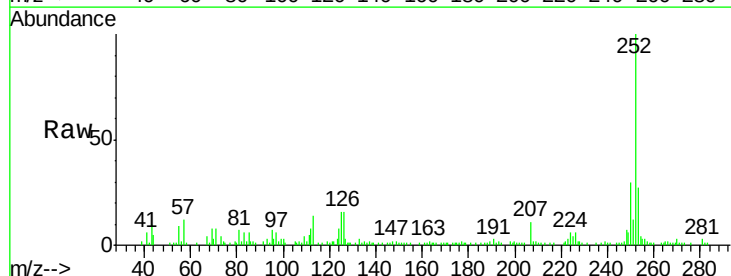
Instrument :
BNA_F
ClientSampled :
S11-WC-4

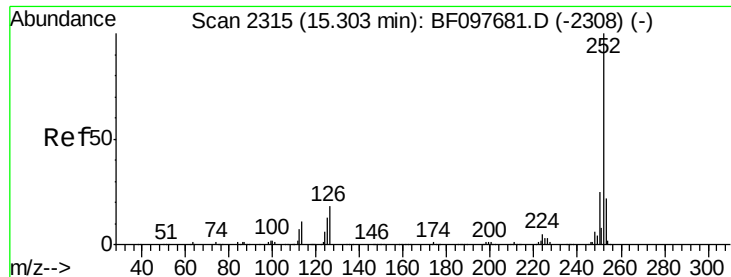
Tot Ion	Ratio	Lower	Upper
252	100		
253	22.4	18.1	27.1
125	12.6	9.8	14.8



#88
Benzo(k)fluoranthene
Concen: 2.78 ng
RT: 15.06 min Scan# 2205
Delta R.T. 0.07 min
Lab File: BF097754.D
Acq: 16 Aug 2017 22:25

Tgt Ion	Ratio	Lower	Upper
252	100		
253	26.9	18.4	27.6
125	15.6	13.1	19.7

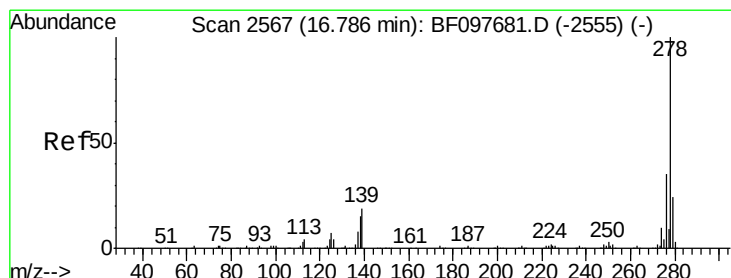
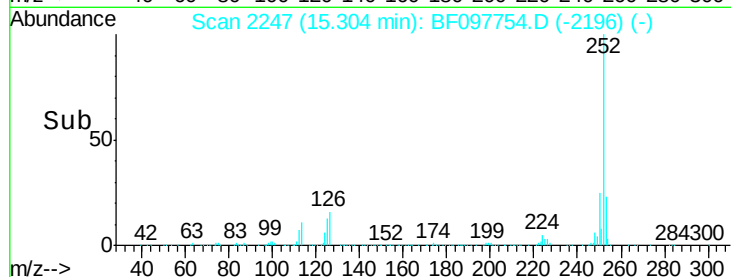
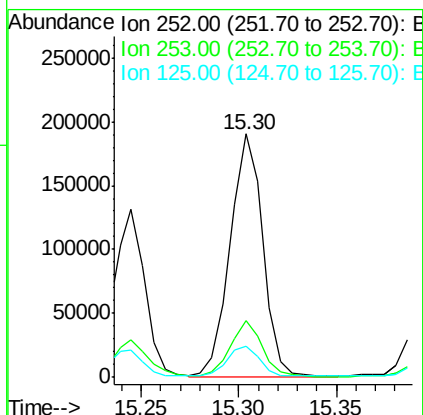
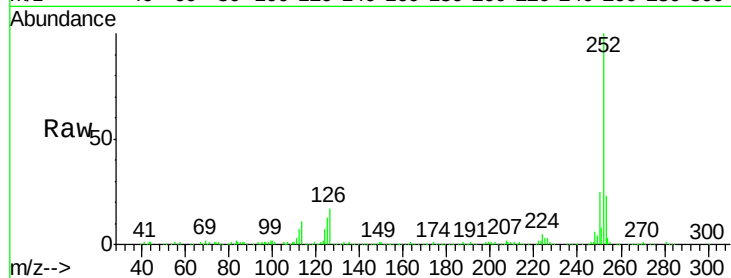




#89
Benzo(a)pyrene
Concen: 14.89 ng
RT: 15.30 min Scan# 2247
Delta R.T. 0.00 min
Lab File: BF097754.D
Acq: 16 Aug 2017 22:25

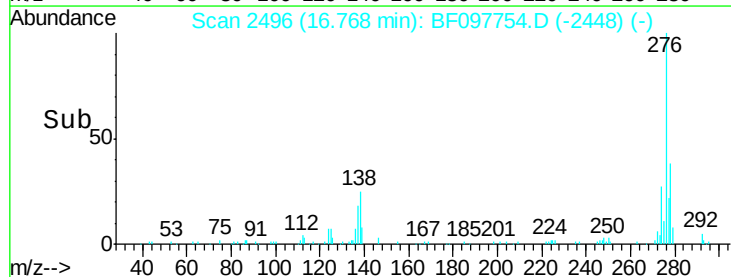
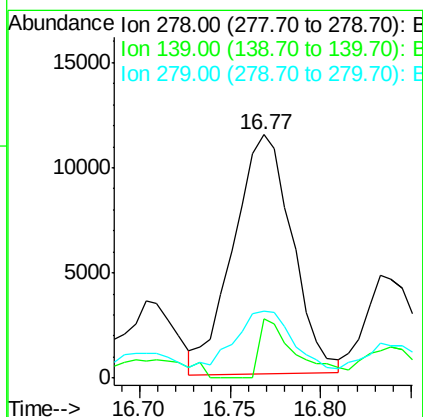
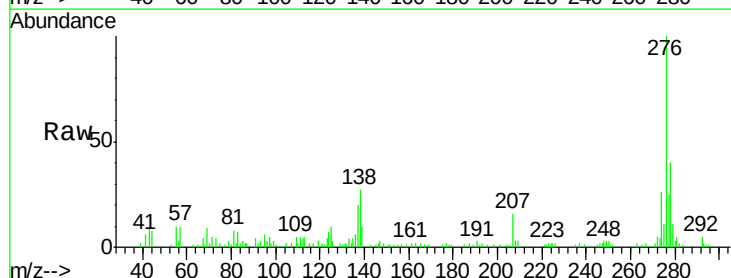
Instrument :
BNA_F
ClientSampleId :
S11-WC-4

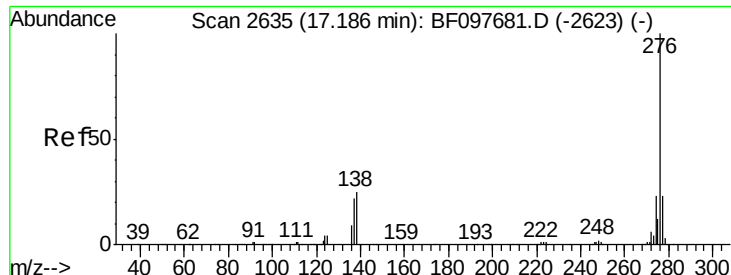
Tot Ion:252 Resp: 219674
Ion Ratio Lower Upper
252 100
253 23.2 17.5 26.3
125 13.0 11.0 16.4



#90
Dibenzo(a,h)anthracene
Concen: 2.14 ng
RT: 16.77 min Scan# 2496
Delta R.T. -0.02 min
Lab File: BF097754.D
Acq: 16 Aug 2017 22:25

Tgt Ion:278 Resp: 25742
Ion Ratio Lower Upper
278 100
139 24.2 16.6 24.8
279 27.6 19.3 28.9





#91

Benzo(a,h,i)perylene

Concen: 7.50 ng

RT: 17.17 min Scan# 2565

Delta R.T. -0.01 min

Lab File: BF097754.D

Acq: 16 Aug 2017 22:25

Instrument :

BNA_F

ClientSampleId :

S11-WC-4

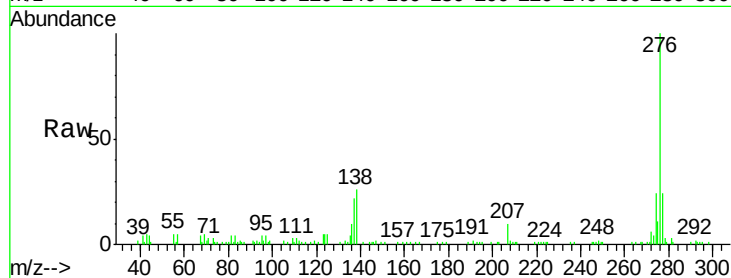
Tot Ion:276 Resp: 93973

Ion Ratio Lower Upper

276 100

277 24.3 18.6 28.0

138 25.5 25.4 38.0



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

