

Data Path : Z:\HPCHEM1\BNA F\Data\BF031117\
 Data File : BF093578.D
 Acq On : 11 Mar 2017 20:15
 Operator : SJ/MA
 Sample : I2233-04 2X
 Misc :
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Mar 13 16:35:24 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF030717.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Mar 13 15:05:08 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.72	152	193513	20.00	ng	0.00
21) Naphthalene-d8	8.00	136	779072	20.00	ng	-0.01
38) Acenaphthene-d10	9.75	164	333356	20.00	ng	-0.01
63) Phenanthrene-d10	11.24	188	540839	20.00	ng	-0.01
75) Chrysene-d12	13.88	240	370916	20.00	ng	-0.01
86) Perylene-d12	15.27	264	346098	20.00	ng	-0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.32	112	606741	52.18	ng	0.00
7) Phenol-d6	6.38	99	917772	62.59	ng	0.00
23) Nitrobenzene-d5	7.29	82	544457	38.78	ng	-0.01
41) 2,4,6-Tribromophenol	10.55	330	86214	39.70	ng	0.00
44) 2-Fluorobiphenyl	9.08	172	792204	44.20	ng	-0.01
78) Terphenyl-d14	12.81	244	515090	36.11	ng	-0.01

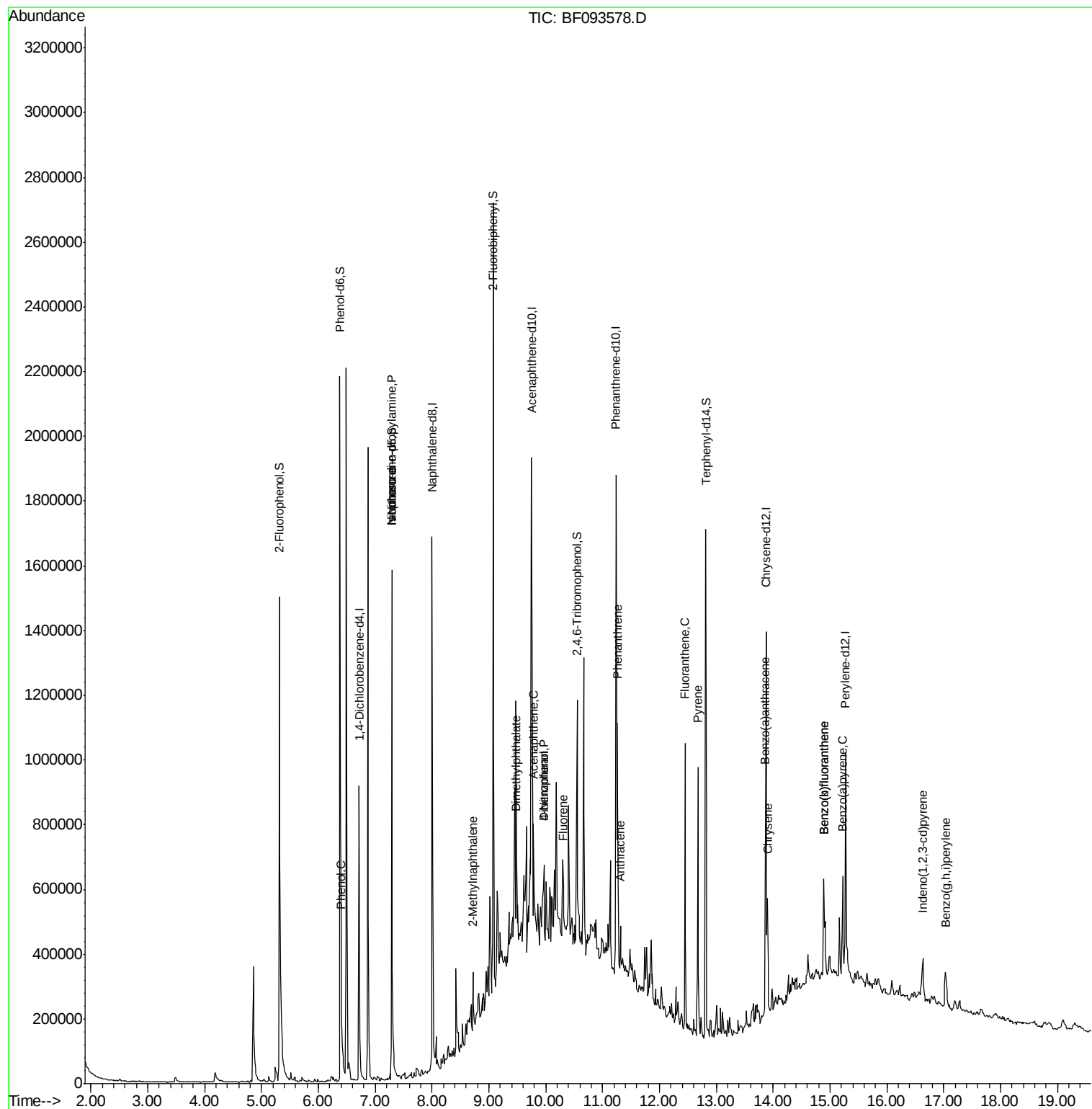
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
9) Benzaldehyde	6.31	77	724	Below Cal		# 1
10) Phenol	6.40	94	52239	2.91	ng	94
19) n-Nitroso-di-n-propylamine	7.29	70	72900	7.23	ng	# 82
25) Isophorone	7.29	82	544450	19.23	ng	# 65
37) 2-Methylnaphthalene	8.72	142	50364	2.03	ng	96
49) Dimethylphthalate	9.49	163	85291	3.86	ng	99
51) Acenaphthene	9.78	154	52398	2.89	ng	97
54) Dibenzofuran	9.97	168	68639	3.03	ng	95
55) 4-Nitrophenol	9.97	139	29029	10.26	ng	# 30
57) Fluorene	10.31	166	58081	3.02	ng	89
70) Phenanthrene	11.26	178	321606	10.42	ng	98
71) Anthracene	11.32	178	77461	2.48	ng	97
74) Fluoranthene	12.45	202	355678	11.93	ng	98
77) Pyrene	12.68	202	330519	12.25	ng	98
80) Benzo(a)anthracene	13.87	228	174701	7.98	ng	99
82) Chrysene	13.90	228	124947	6.17	ng	98
85) Indeno(1,2,3-cd)pyrene	16.63	276	88901	5.24	ng	99
87) Benzo(b)fluoranthene	14.89	252	258111	12.25	ng	# 97
88) Benzo(k)fluoranthene	14.89	252	258111	12.70	ng	# 96
89) Benzo(a)pyrene	15.23	252	143511	7.45	ng	99
91) Benzo(a,h,i)perylene	17.03	276	88851	5.43	ng	# 85

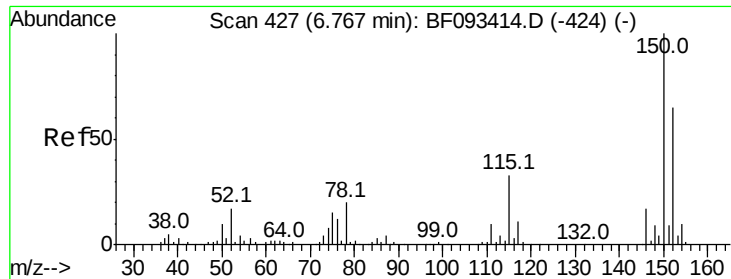
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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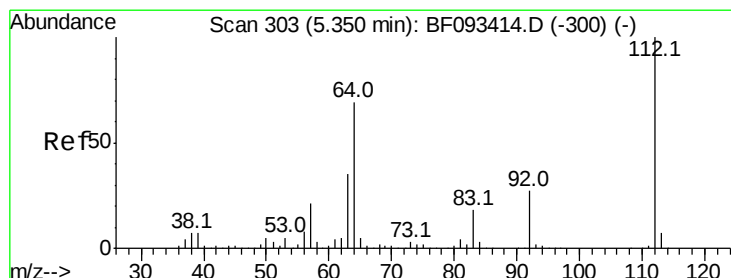
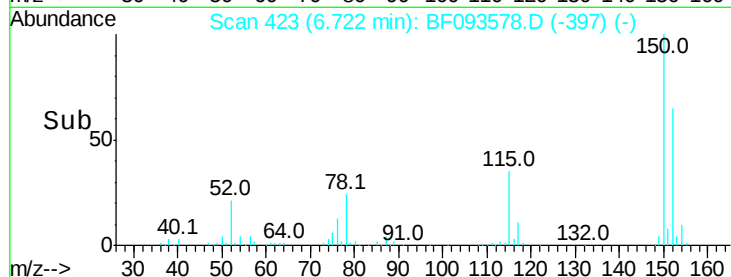
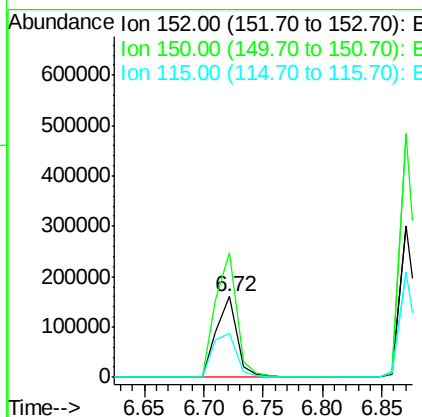
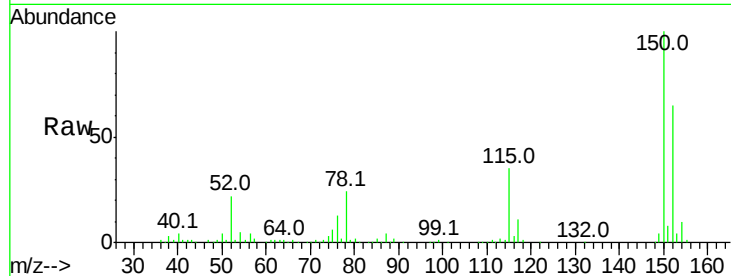


#1

1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 6.72 min Scan# 423
Delta R.T. -0.00 min
Lab File: BF093578.D
Acq: 11 Mar 2017 20:15

Instrument :
BNA_F
ClientSampleId :

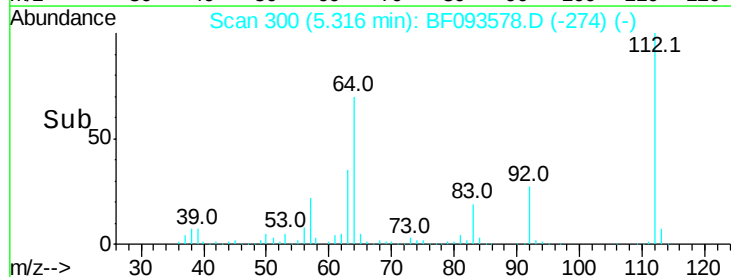
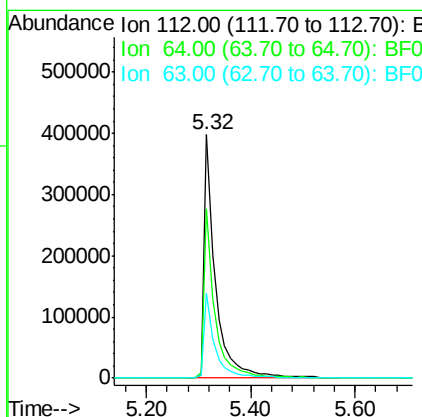
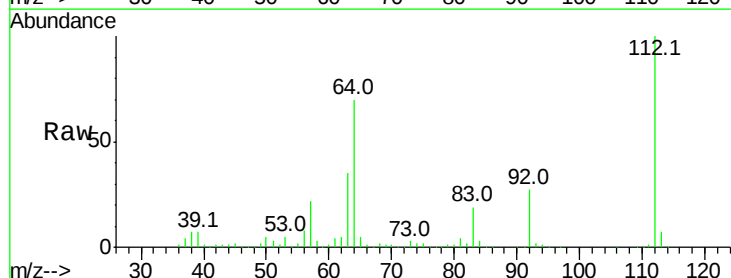
Tot Ion:152 Resp: 193513
Ion Ratio Lower Upper
152 100
150 154.6 124.9 187.3
115 54.1 46.0 69.0

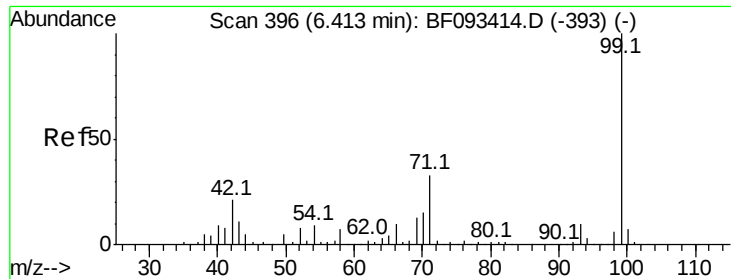


#5

2-Fluorophenol
Concen: 52.18 ng
RT: 5.32 min Scan# 300
Delta R.T. -0.00 min
Lab File: BF093578.D
Acq: 11 Mar 2017 20:15

Tgt Ion:112 Resp: 606741
Ion Ratio Lower Upper
112 100
64 69.6 46.1 69.1#
63 34.7 23.8 35.6





#7

Phenol-d6

Concen: 62.59 ng

RT: 6.38 min Scan# 393

Delta R.T. -0.00 min

Lab File: BF093578.D

Acq: 11 Mar 2017 20:15

Instrument :

BNA_F

ClientSampled :

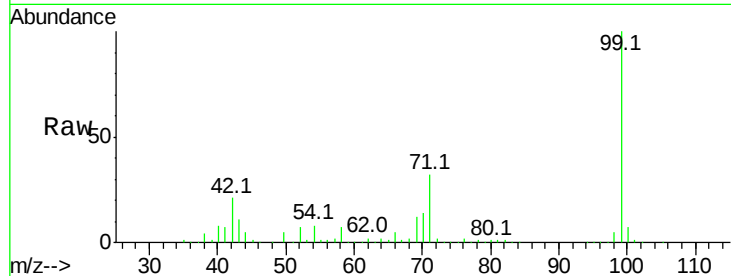
Tot Ion: 99 Resp: 917772

Ion Ratio Lower Upper

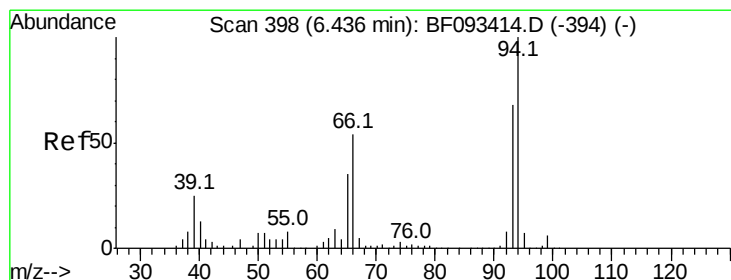
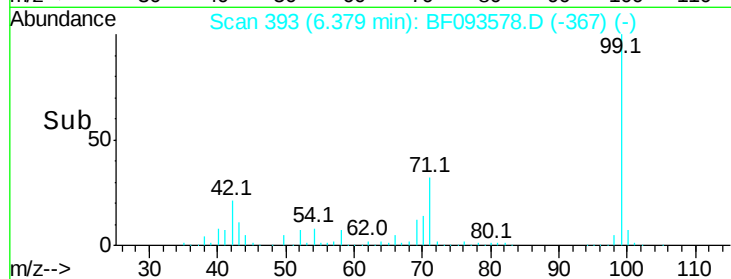
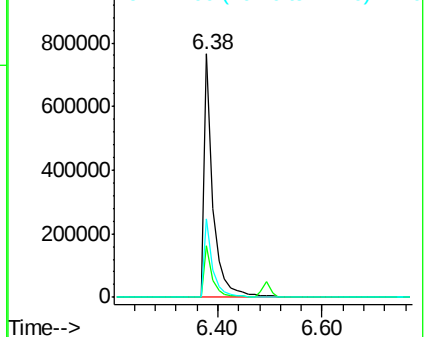
99 100

42 21.3 15.6 23.4

71 32.3 27.5 41.3



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



#10

Phenol

Concen: 2.91 ng

RT: 6.40 min Scan# 395

Delta R.T. -0.00 min

Lab File: BF093578.D

Acq: 11 Mar 2017 20:15

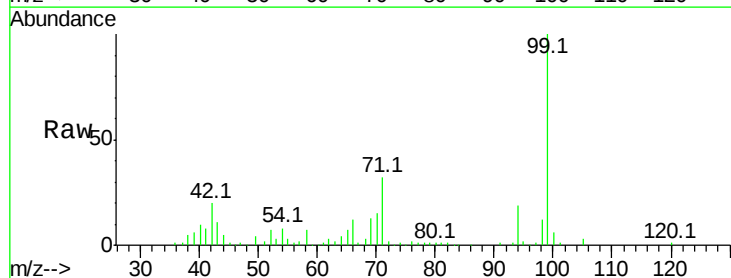
Tgt Ion: 94 Resp: 52239

Ion Ratio Lower Upper

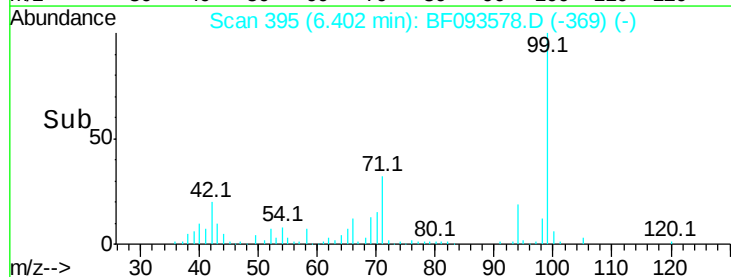
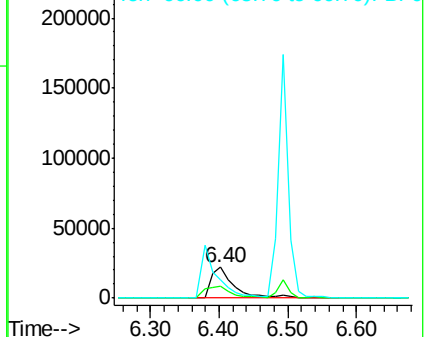
94 100

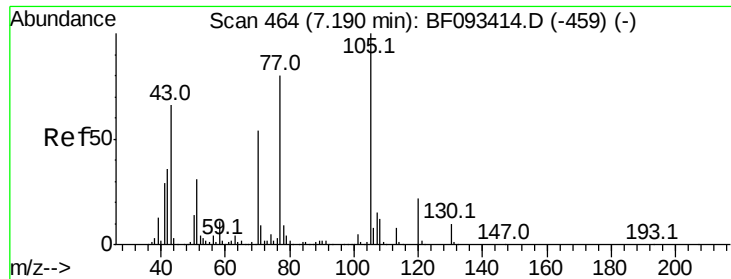
65 37.2 21.4 61.4

66 59.4 44.0 84.0



Abundance Ion 94.00 (93.70 to 94.70): BF0
Ion 65.00 (64.70 to 65.70): BF0
Ion 66.00 (65.70 to 66.70): BF0

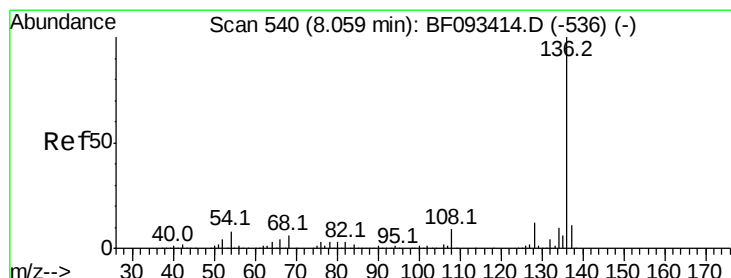
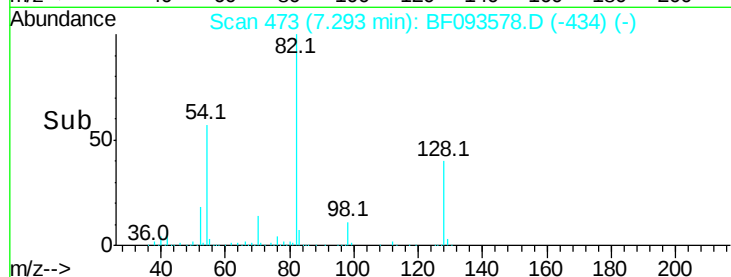
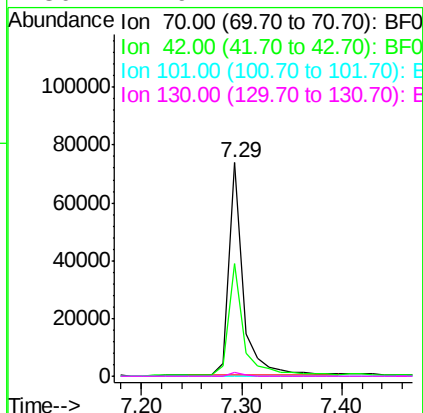
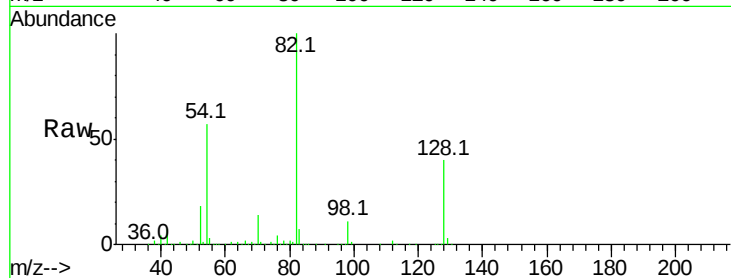




#19
n-Nitroso-di-n-propylamine
Concen: 7.23 ng
RT: 7.29 min Scan# 473
Delta R.T. 0.15 min
Lab File: BF093578.D
Acq: 11 Mar 2017 20:15

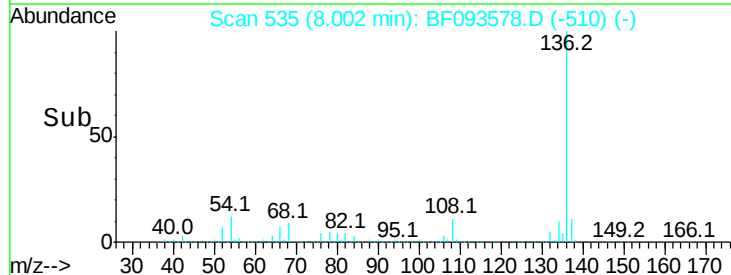
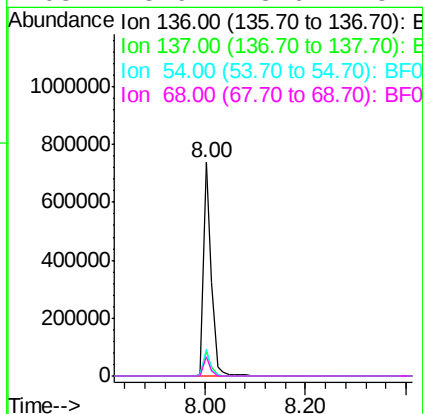
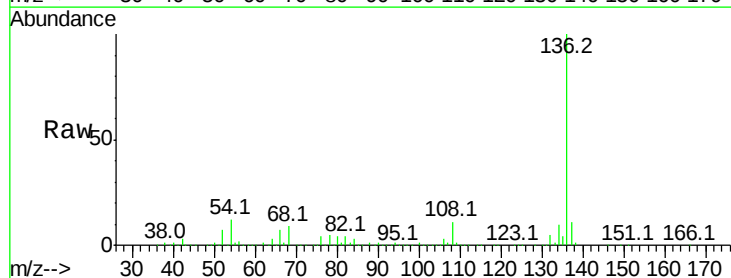
Instrument :
BNA_F
ClientSampleId :

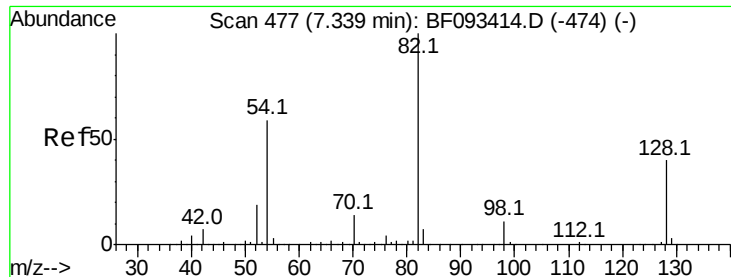
Tot Ion: 70 Resp: 72900
Ion Ratio Lower Upper
70 100
42 52.8 49.4 74.0
101 0.0 7.4 11.2#
130 1.9 14.2 21.4#



#21
Naphthalene-d8
Concen: 20.00 ng
RT: 8.00 min Scan# 535
Delta R.T. -0.01 min
Lab File: BF093578.D
Acq: 11 Mar 2017 20:15

Tgt Ion:136 Resp: 779072
Ion Ratio Lower Upper
136 100
137 11.5 8.4 12.6
54 12.3 4.5 6.7#
68 8.9 3.6 5.4#

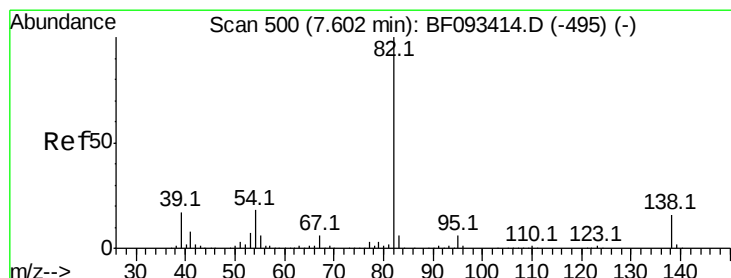
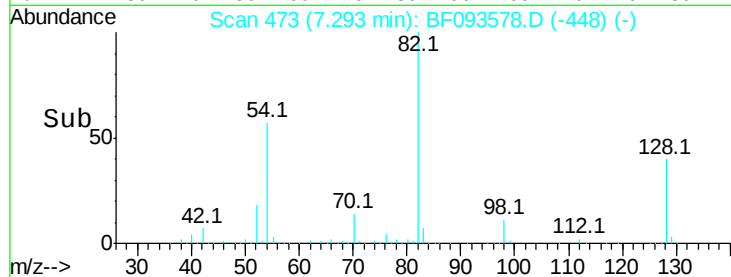
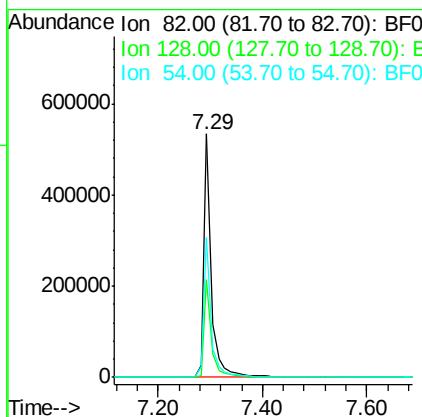
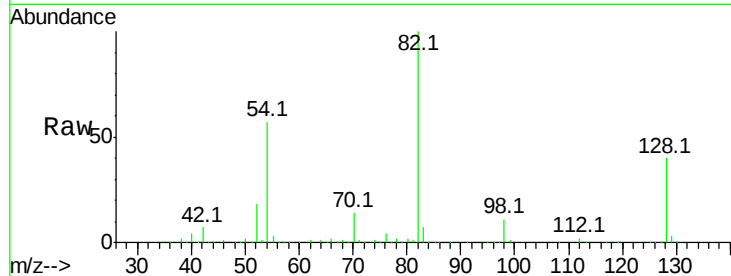




#23
 Nitrobenzene-d5
 Concen: 38.78 ng
 RT: 7.29 min Scan# 473
 Delta R.T. -0.01 min
 Lab File: BF093578.D
 Acq: 11 Mar 2017 20:15

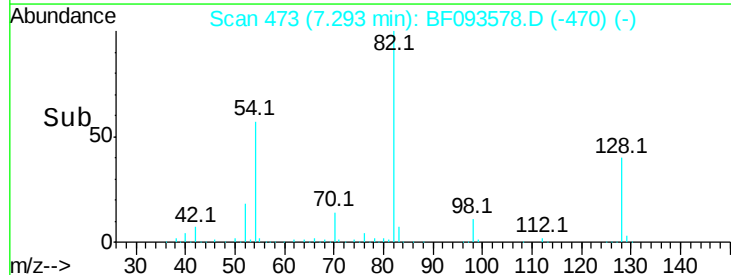
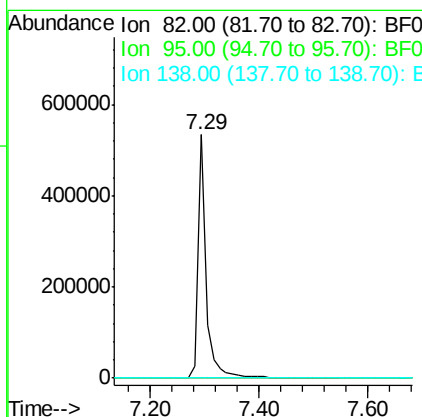
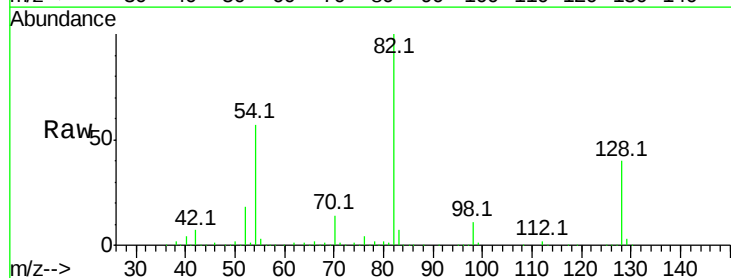
Instrument :
 BNA_F
 ClientSampled :

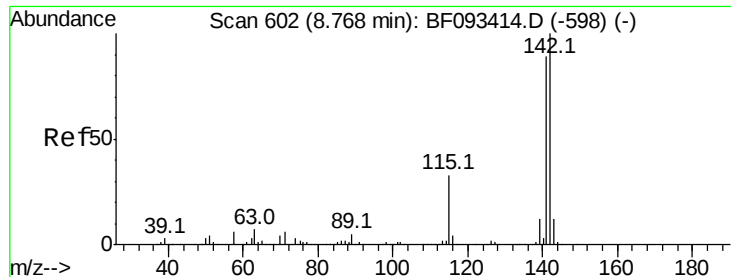
Tot Ion:	82	Resp:	544457
Ion Ratio	Lower	Upper	
82	100		
128	40.2	34.6	52.0
54	57.3	39.5	59.3



#25
 Isophorone
 Concen: 19.23 ng
 RT: 7.29 min Scan# 473
 Delta R.T. -0.26 min
 Lab File: BF093578.D
 Acq: 11 Mar 2017 20:15

Tgt Ion:	82	Resp:	544450
Ion Ratio	Lower	Upper	
82	100		
95	0.1	5.6	8.4#
138	0.0	14.6	22.0#

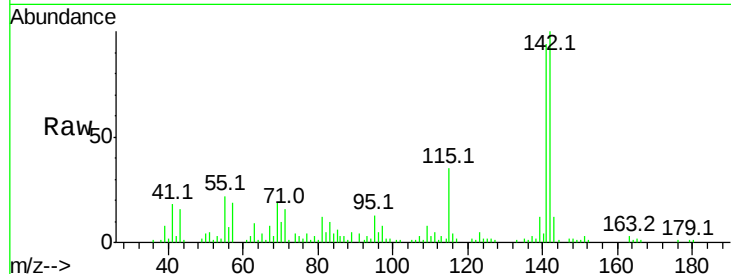




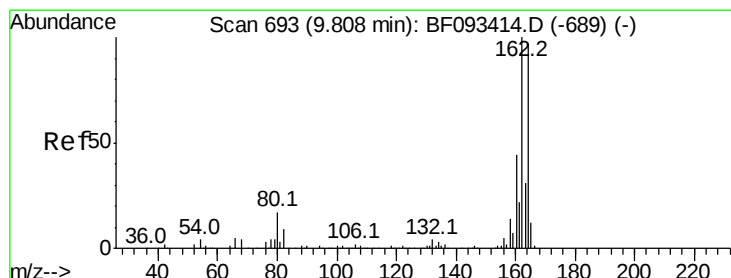
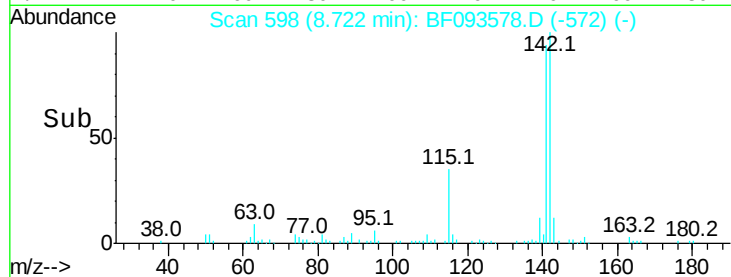
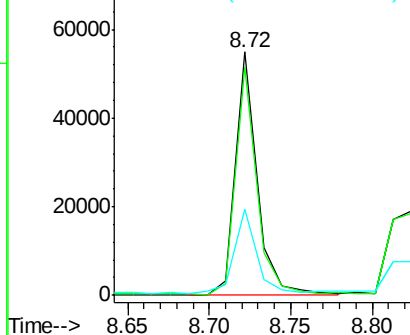
#37
 2-Methylnaphthalene
 Concen: 2.03 ng
 RT: 8.72 min Scan# 598
 Delta R.T. -0.00 min
 Lab File: BF093578.D
 Acq: 11 Mar 2017 20:15

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion:142 Resp: 50364
 Ion Ratio Lower Upper
 142 100
 141 94.0 71.0 106.6
 115 35.2 28.3 42.5

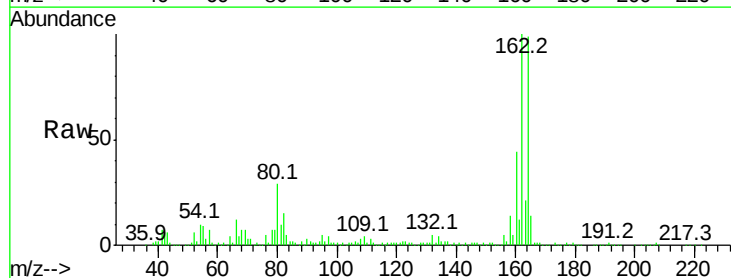


Abundance Ion 142.00 (141.70 to 142.70): E
 Ion 141.00 (140.70 to 141.70): E
 Ion 115.00 (114.70 to 115.70): E

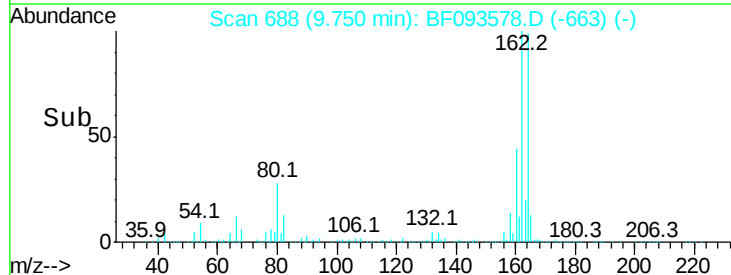
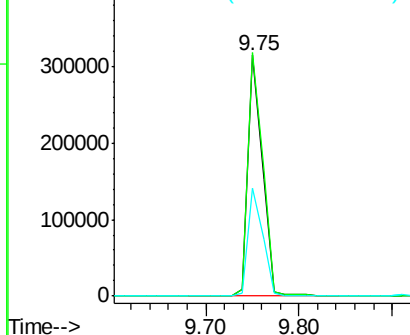


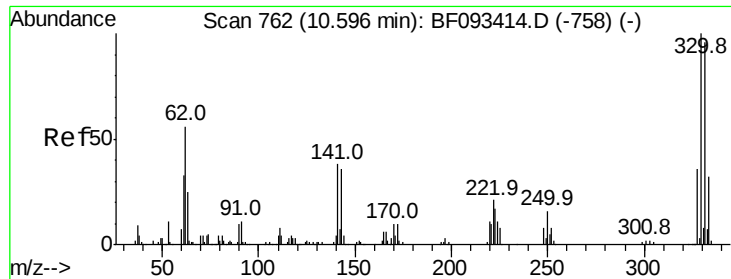
#38
 Acenaphthene-d10
 Concen: 20.00 ng
 RT: 9.75 min Scan# 688
 Delta R.T. -0.01 min
 Lab File: BF093578.D
 Acq: 11 Mar 2017 20:15

Tgt Ion:164 Resp: 333356
 Ion Ratio Lower Upper
 164 100
 162 101.2 80.2 120.2
 160 44.8 36.9 55.3



Abundance Ion 164.00 (163.70 to 164.70): E
 Ion 162.00 (161.70 to 162.70): E
 Ion 160.00 (159.70 to 160.70): E

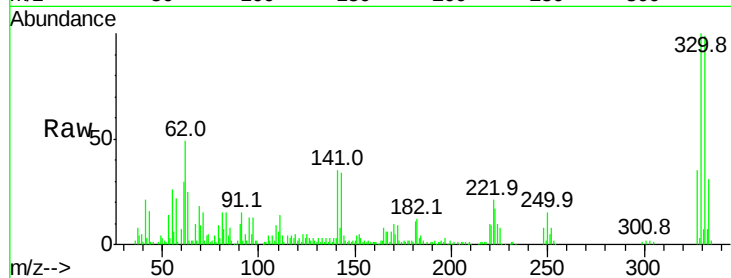




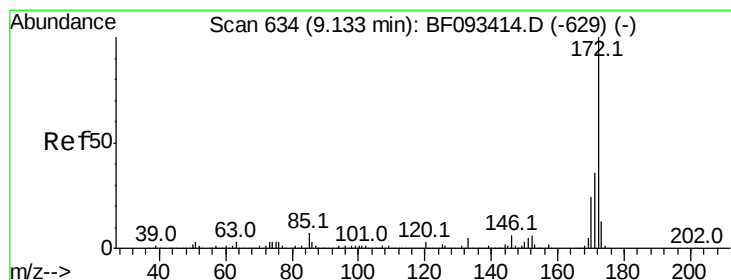
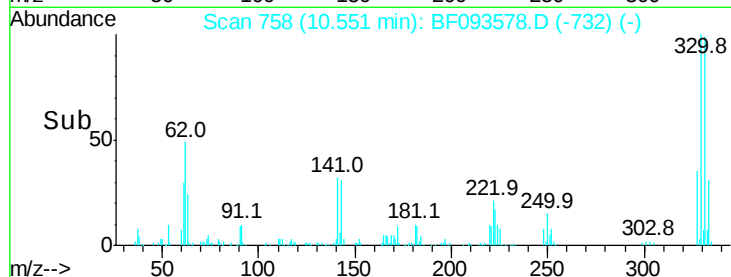
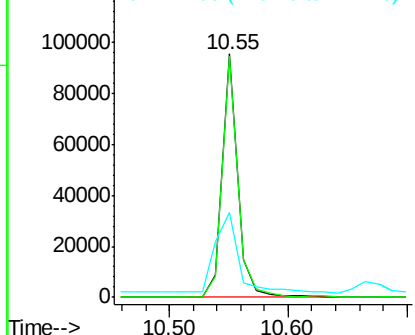
#41
 2,4,6-Tribromophenol
 Concen: 39.70 ng
 RT: 10.55 min Scan# 758
 Delta R.T. -0.00 min
 Lab File: BF093578.D
 Acq: 11 Mar 2017 20:15

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion:330 Resp: 86214
 Ion Ratio Lower Upper
 330 100
 332 98.9 77.4 116.2
 141 49.1 34.1 51.1

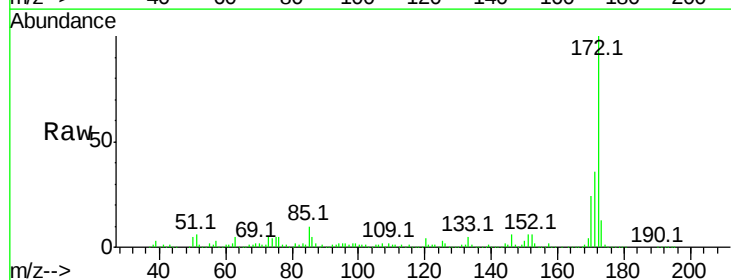


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

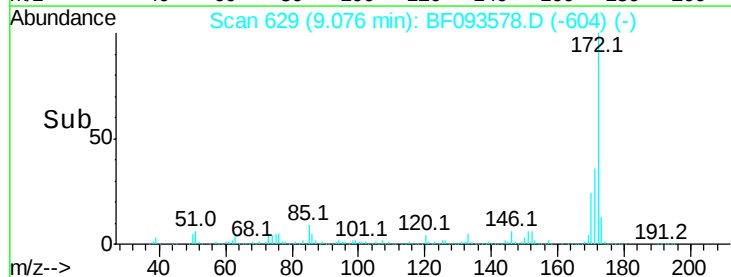
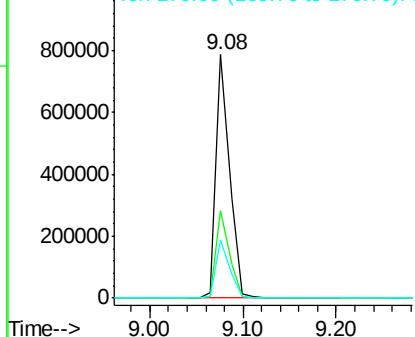


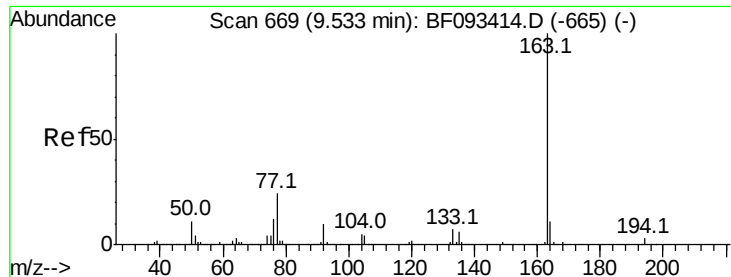
#44
 2-Fluorobiphenyl
 Concen: 44.20 ng
 RT: 9.08 min Scan# 629
 Delta R.T. -0.01 min
 Lab File: BF093578.D
 Acq: 11 Mar 2017 20:15

Tgt Ion:172 Resp: 792204
 Ion Ratio Lower Upper
 172 100
 171 35.7 29.4 44.0
 170 24.0 20.2 30.4



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

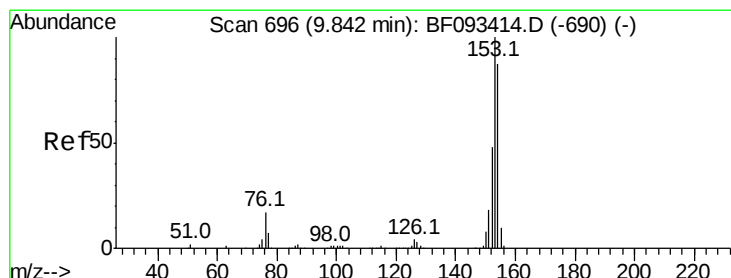
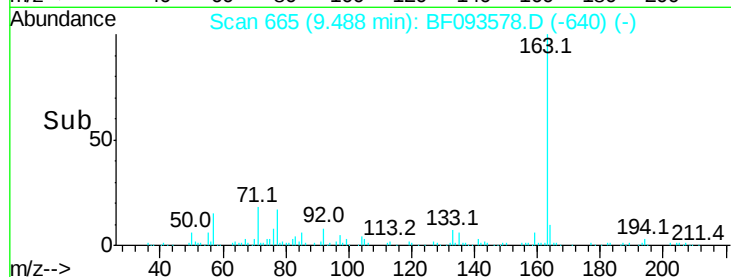
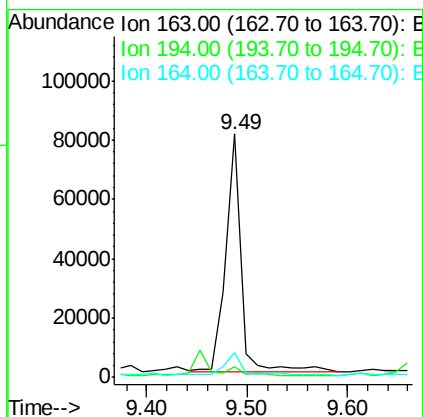
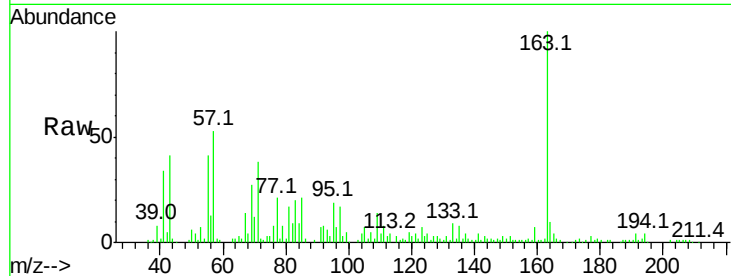




#49
Dimethylphthalate
Concen: 3.86 ng
RT: 9.49 min Scan# 665
Delta R.T. -0.01 min
Lab File: BF093578.D
Acq: 11 Mar 2017 20:15

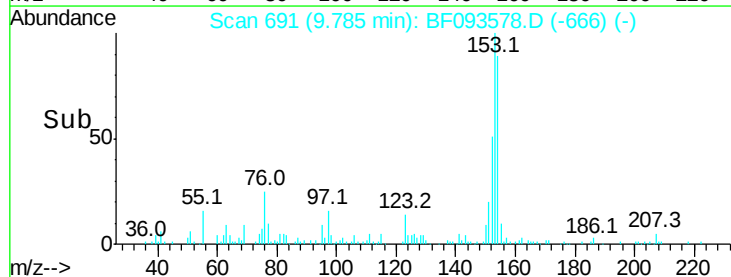
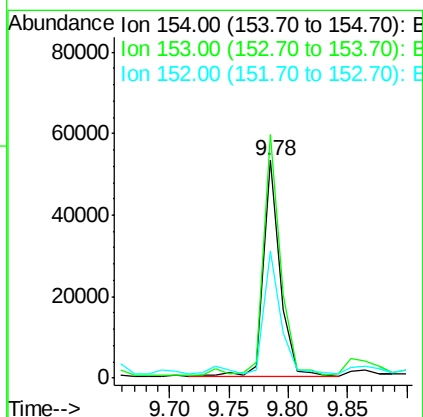
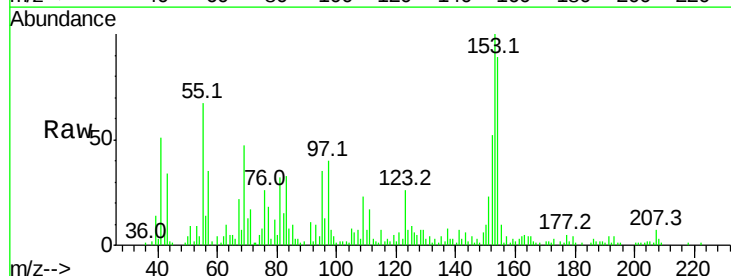
Instrument :
BNA_F
ClientSampleId :

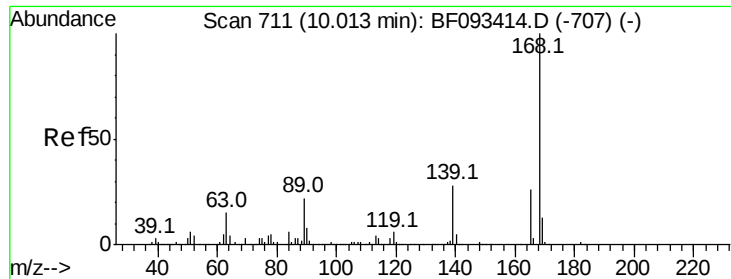
Tot Ion:163 Resp: 85291
Ion Ratio Lower Upper
163 100
194 4.1 3.0 4.4
164 10.1 8.0 12.0



#51
Acenaphthene
Concen: 2.89 ng
RT: 9.78 min Scan# 691
Delta R.T. -0.01 min
Lab File: BF093578.D
Acq: 11 Mar 2017 20:15

Tgt Ion:154 Resp: 52398
Ion Ratio Lower Upper
154 100
153 111.8 88.6 133.0
152 58.2 41.6 62.4

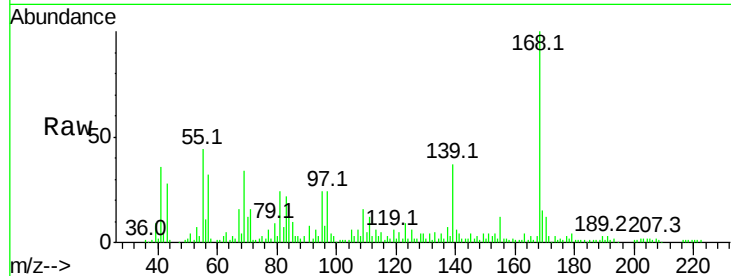




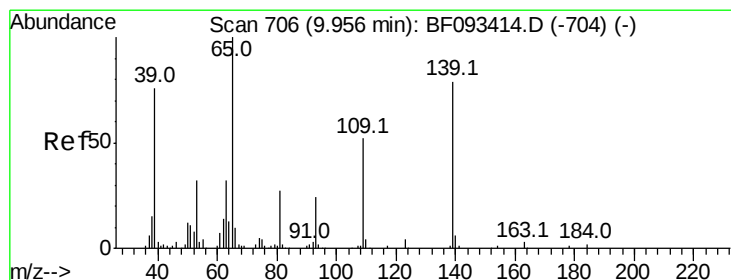
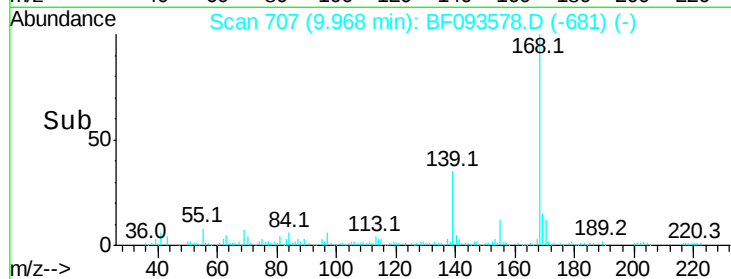
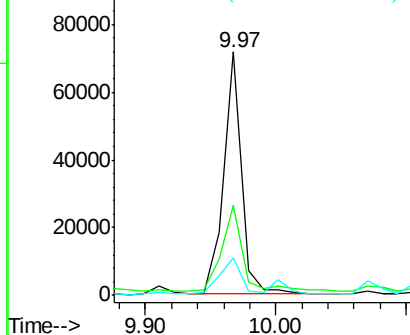
#54
Dibenzofuran
Concen: 3.03 ng
RT: 9.97 min Scan# 707
Delta R.T. -0.00 min
Lab File: BF093578.D
Acq: 11 Mar 2017 20:15

Instrument :
BNA_F
ClientSampled :

Tot Ion	Ratio	Lower	Upper
168	100		
139	36.9	32.6	49.0
169	15.3	11.3	16.9

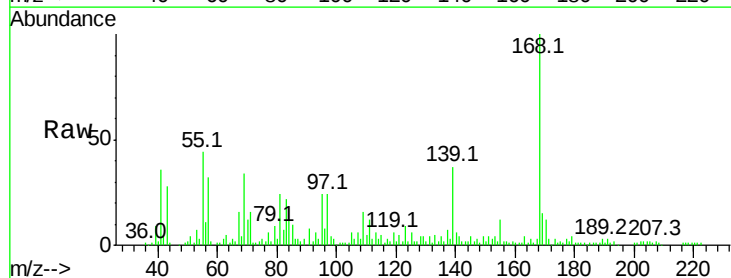


Abundance Ion 168.00 (167.70 to 168.70): E
Ion 139.00 (138.70 to 139.70): E
Ion 169.00 (168.70 to 169.70): E

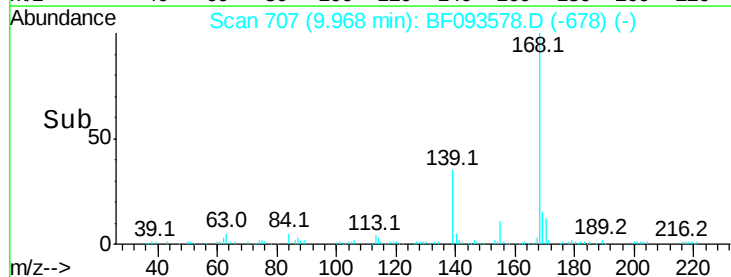
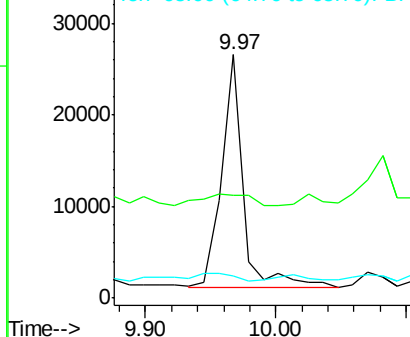


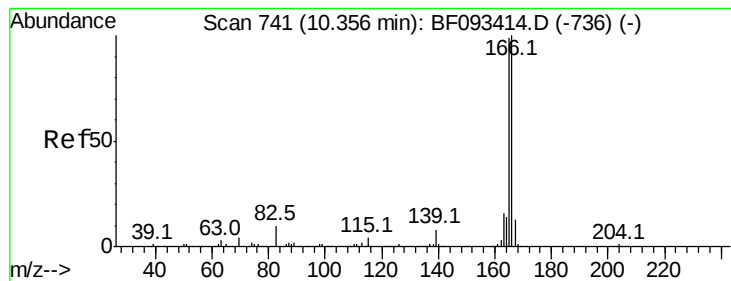
#55
4-Nitrophenol
Concen: 10.26 ng
RT: 9.97 min Scan# 707
Delta R.T. 0.03 min
Lab File: BF093578.D
Acq: 11 Mar 2017 20:15

Tgt Ion	Ratio	Lower	Upper
139	100		
109	42.2	52.2	92.2#
65	9.2	85.8	125.8#



Abundance Ion 139.00 (138.70 to 139.70): E
Ion 109.00 (108.70 to 109.70): E
Ion 65.00 (64.70 to 65.70): BF0





#57

Fluorene

Concen: 3.02 ng

RT: 10.31 min Scan# 737

Delta R.T. -0.00 min

Lab File: BF093578.D

Acq: 11 Mar 2017 20:15

Instrument :

BNA_F

ClientSampleId :

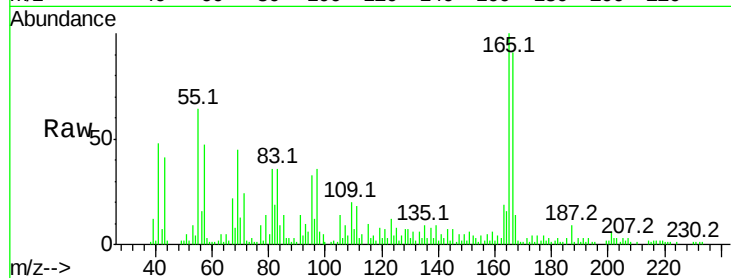
Tot Ion:166 Resp: 58081

Ion Ratio Lower Upper

166 100

165 109.6 77.8 116.8

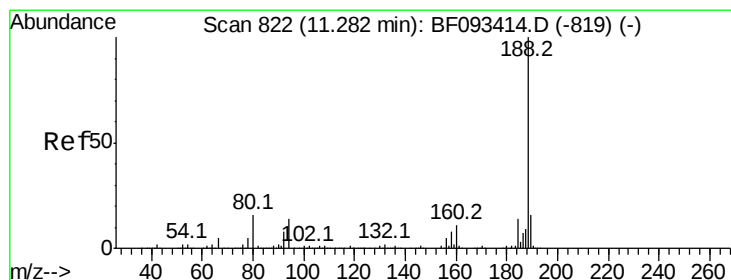
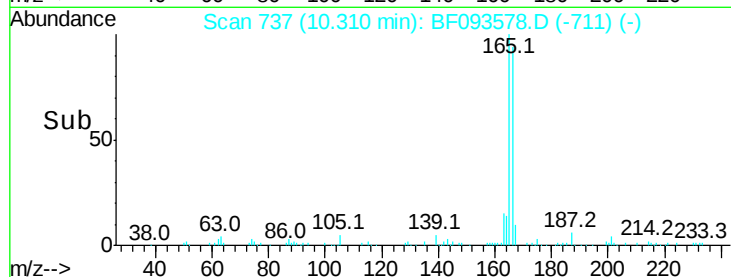
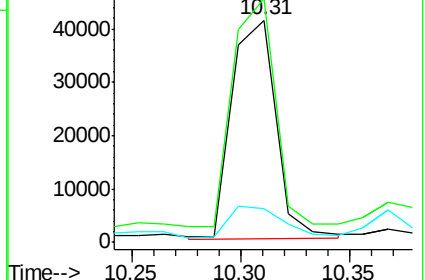
167 15.4 10.8 16.2



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: 11.24 min Scan# 818

Delta R.T. -0.01 min

Lab File: BF093578.D

Acq: 11 Mar 2017 20:15

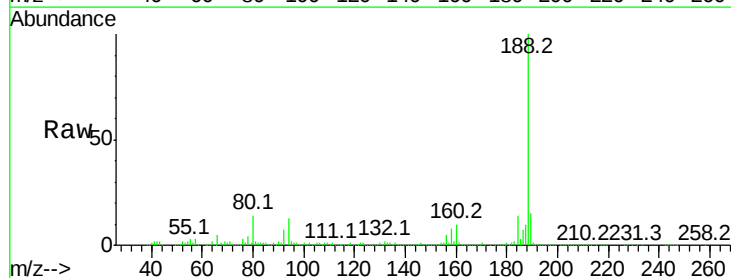
Tgt Ion:188 Resp: 540839

Ion Ratio Lower Upper

188 100

94 13.1 10.0 15.0

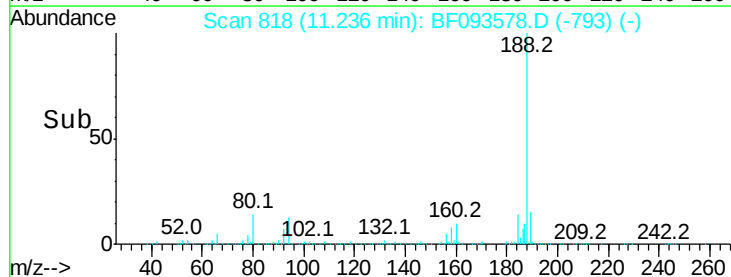
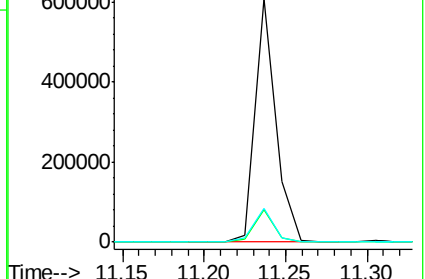
80 14.0 11.2 16.8

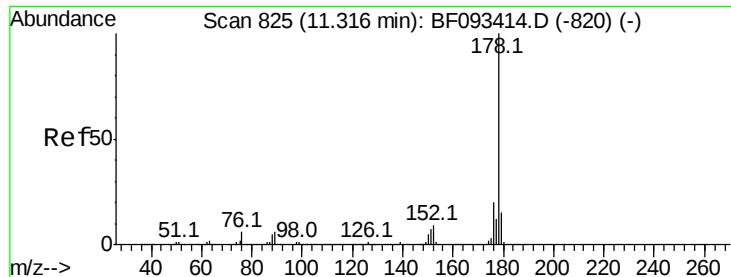


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF0

Ion 80.00 (79.70 to 80.70): BF0

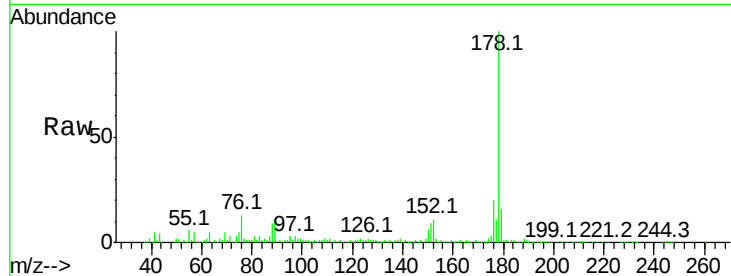




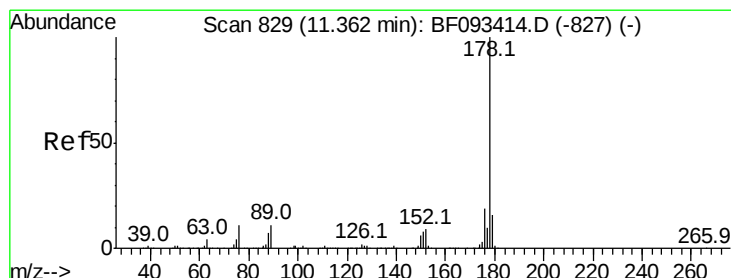
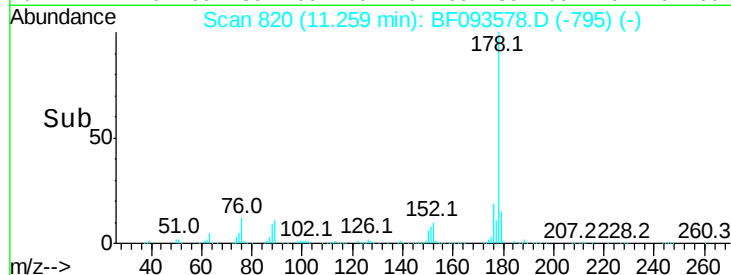
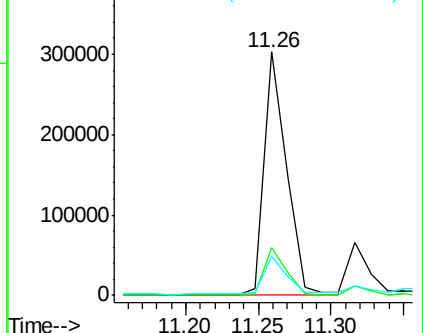
#70
Phenanthrene
Concen: 10.42 ng
RT: 11.26 min Scan# 820
Delta R.T. -0.01 min
Lab File: BF093578.D
Acq: 11 Mar 2017 20:15

Instrument :
BNA_F
ClientSampleId :

Tot Ion:178 Resp: 321606
Ion Ratio Lower Upper
178 100
176 19.6 16.6 25.0
179 15.8 12.8 19.2

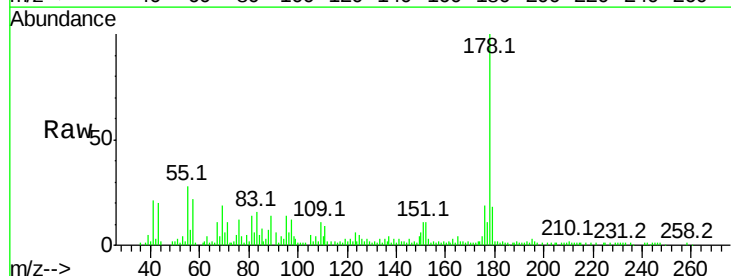


Abundance Ion 178.00 (177.70 to 178.70): E
Ion 176.00 (175.70 to 176.70): E
Ion 179.00 (178.70 to 179.70): E

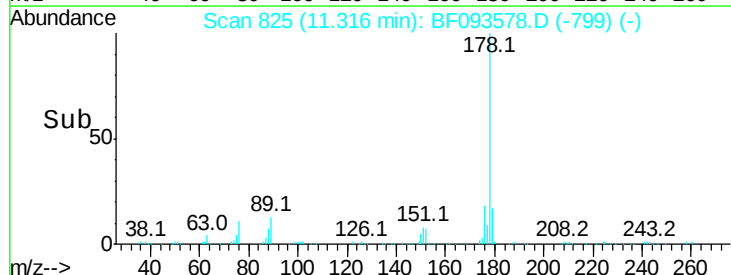
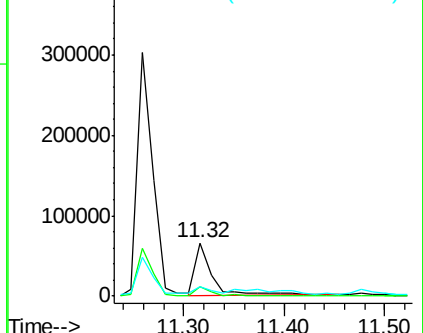


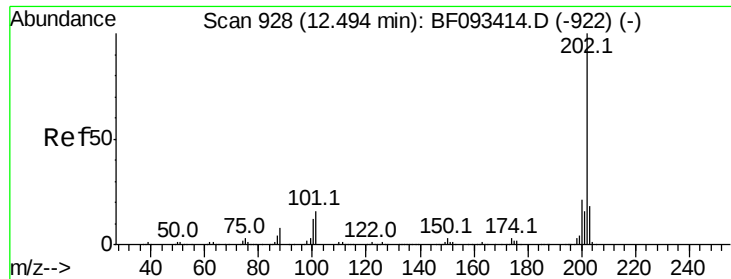
#71
Anthracene
Concen: 2.48 ng
RT: 11.32 min Scan# 825
Delta R.T. -0.00 min
Lab File: BF093578.D
Acq: 11 Mar 2017 20:15

Tgt Ion:178 Resp: 77461
Ion Ratio Lower Upper
178 100
176 18.8 15.9 23.9
179 18.4 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

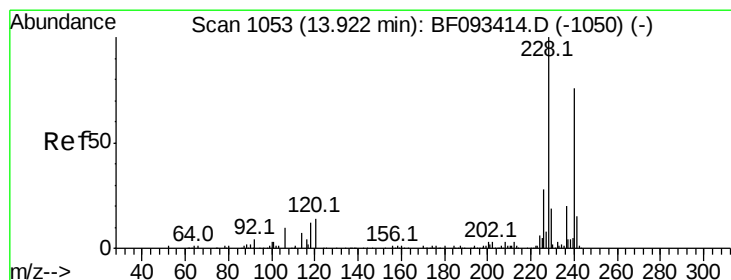
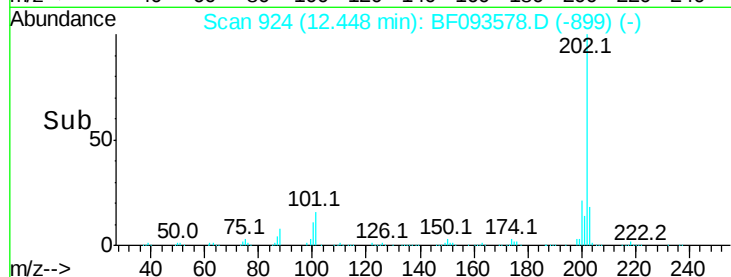
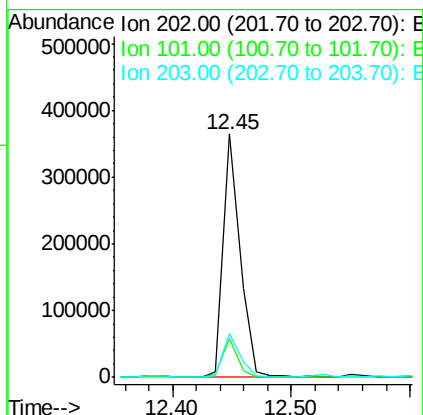
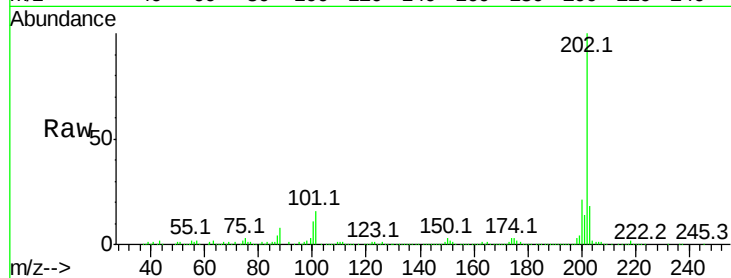




#74
Fluoranthene
Concen: 11.93 ng
RT: 12.45 min Scan# 924
Delta R.T. -0.01 min
Lab File: BF093578.D
Acq: 11 Mar 2017 20:15

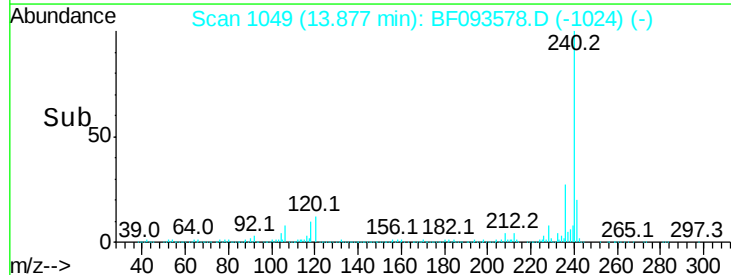
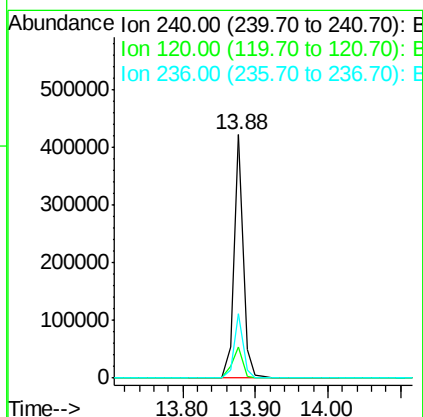
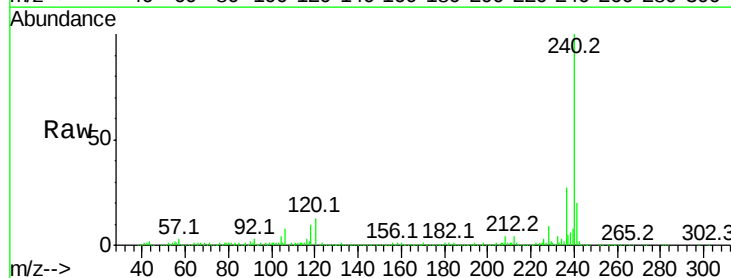
Instrument :
BNA_F
ClientSampleId :

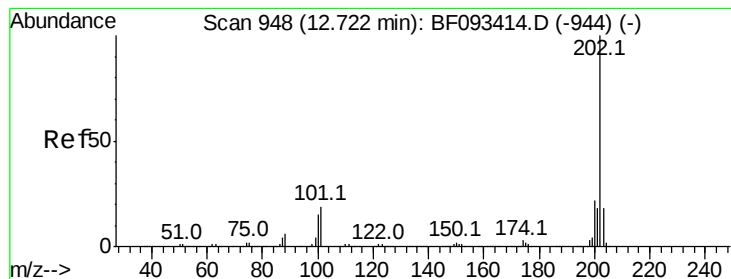
Tot Ion:202 Resp: 355678
Ion Ratio Lower Upper
202 100
101 15.9 0.0 34.6
203 17.9 0.0 38.7



#75
Chrysene-d12
Concen: 20.00 ng
RT: 13.88 min Scan# 1049
Delta R.T. -0.01 min
Lab File: BF093578.D
Acq: 11 Mar 2017 20:15

Tgt Ion:240 Resp: 370916
Ion Ratio Lower Upper
240 100
120 12.6 12.9 19.3#
236 26.6 20.9 31.3





#77

Pvrene

Concen: 12.25 ng

RT: 12.68 min Scan# 944

Delta R.T. -0.00 min

Lab File: BF093578.D

Acq: 11 Mar 2017 20:15

Instrument :

BNA_F

ClientSampleId :

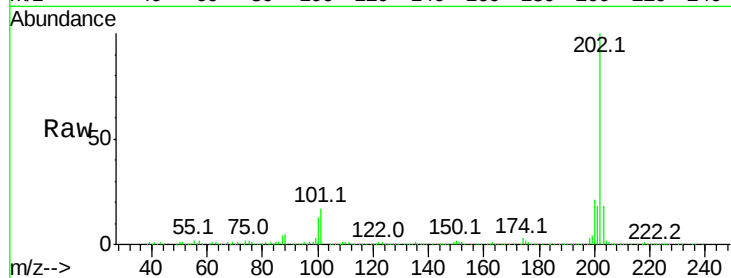
Tot Ion:202 Resp: 330519

Ion Ratio Lower Upper

202 100

200 21.2 17.7 26.5

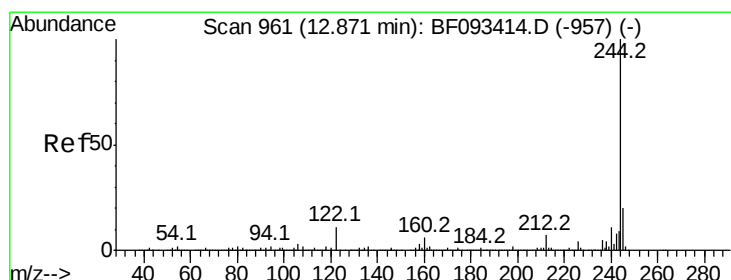
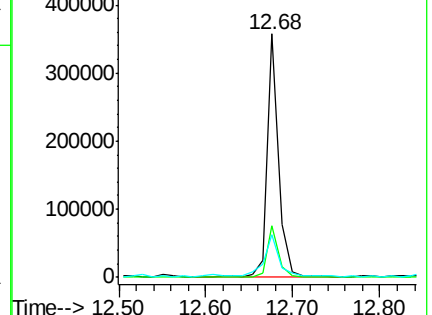
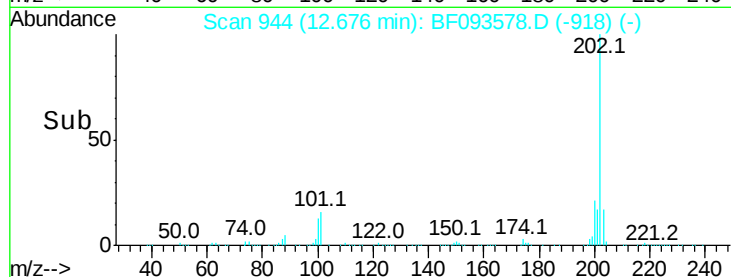
203 17.7 14.7 22.1



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: 36.11 ng

RT: 12.81 min Scan# 956

Delta R.T. -0.01 min

Lab File: BF093578.D

Acq: 11 Mar 2017 20:15

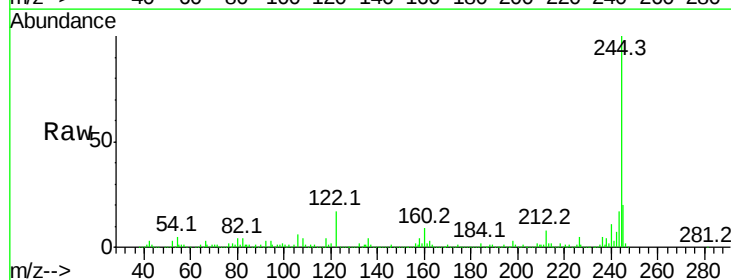
Tgt Ion:244 Resp: 515090

Ion Ratio Lower Upper

244 100

212 7.9 6.2 9.2

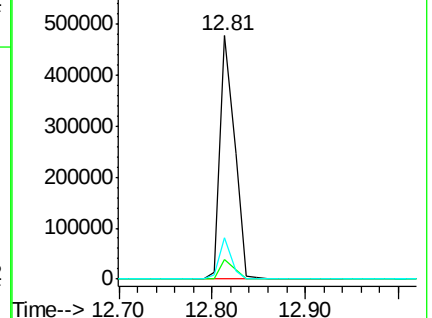
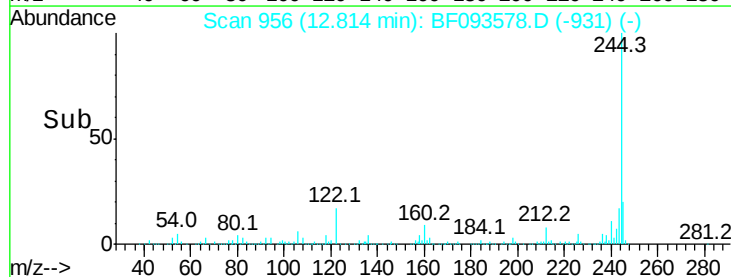
122 17.0 11.4 17.2

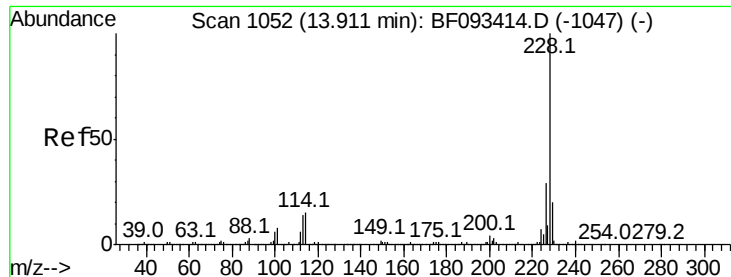


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#80

Benzo(a)anthracene

Concen: 7.98 ng

RT: 13.87 min Scan# 1048

Delta R.T. -0.00 min

Lab File: BF093578.D

Acq: 11 Mar 2017 20:15

Instrument :

BNA_F

ClientSampleId :

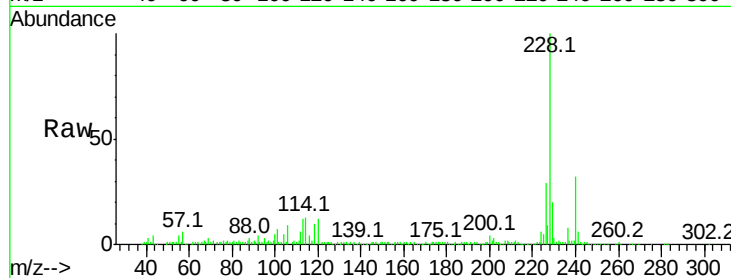
Tot Ion:228 Resp: 174701

Ion Ratio Lower Upper

228 100

226 28.9 22.4 33.6

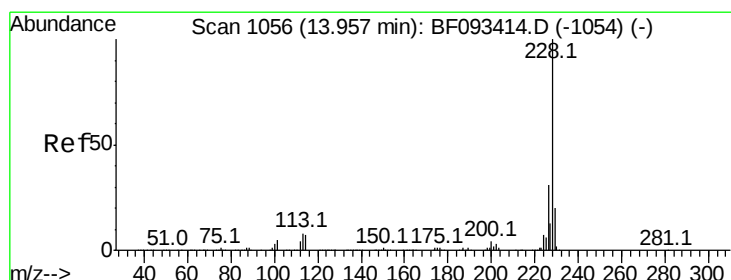
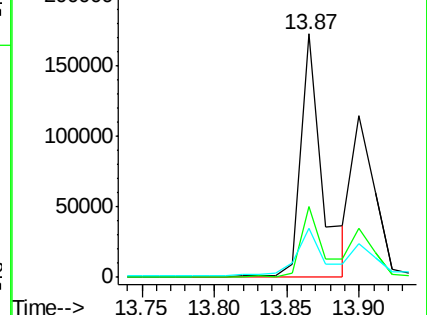
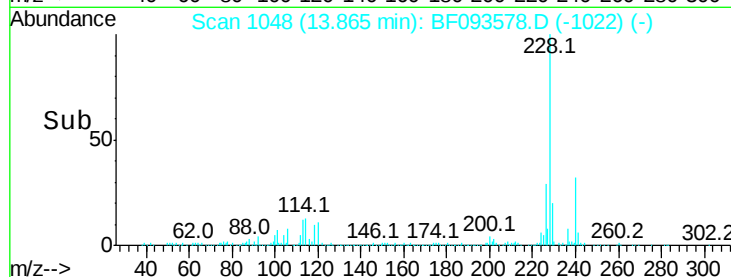
229 20.1 16.2 24.4



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: 6.17 ng

RT: 13.90 min Scan# 1051

Delta R.T. -0.01 min

Lab File: BF093578.D

Acq: 11 Mar 2017 20:15

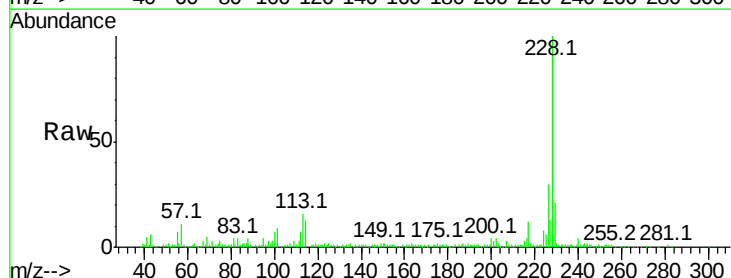
Tgt Ion:228 Resp: 124947

Ion Ratio Lower Upper

228 100

226 30.3 25.4 38.0

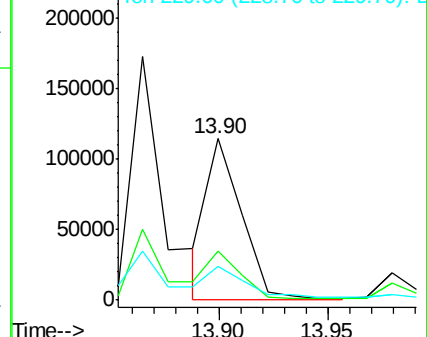
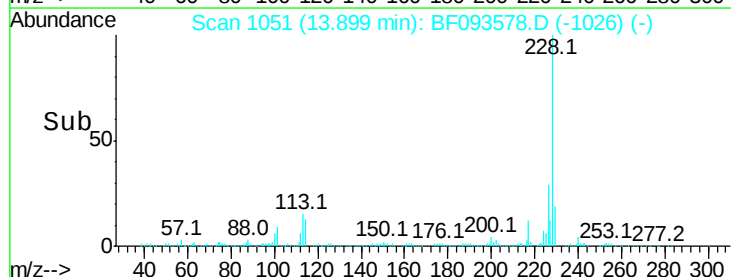
229 20.6 16.2 24.2

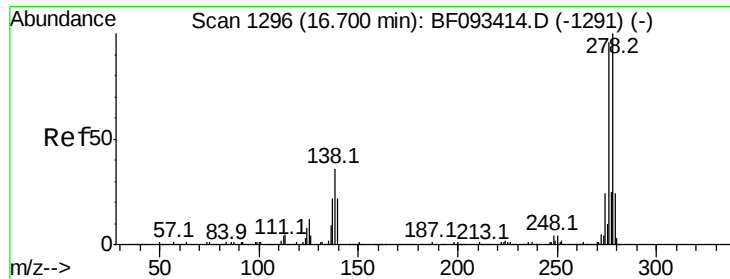


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#85

Indeno(1,2,3-cd)pyrene

Concen: 5.24 ng

RT: 16.63 min Scan# 1290

Delta R.T. 0.01 min

Lab File: BF093578.D

Acq: 11 Mar 2017 20:15

Instrument :

BNA_F

ClientSampleId :

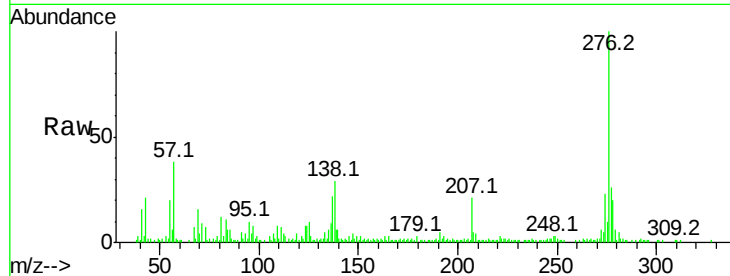
Tot Ion:276 Resp: 88901

Ion Ratio Lower Upper

276 100

138 27.9 21.8 32.6

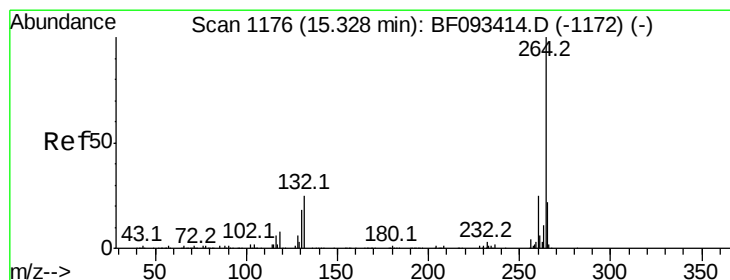
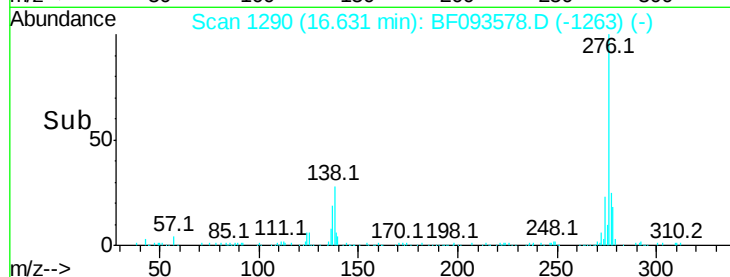
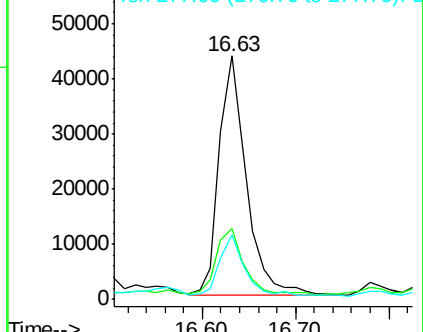
277 24.6 20.2 30.4



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: 15.27 min Scan# 1171

Delta R.T. -0.01 min

Lab File: BF093578.D

Acq: 11 Mar 2017 20:15

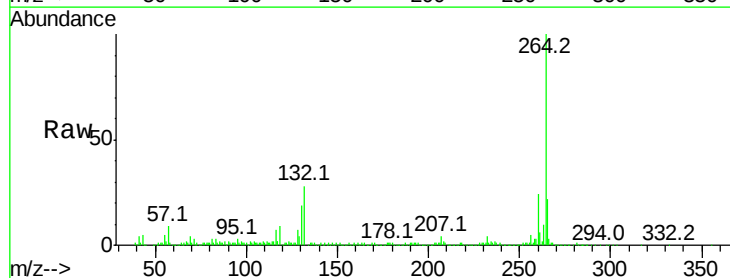
Tgt Ion:264 Resp: 346098

Ion Ratio Lower Upper

264 100

260 23.7 19.2 28.8

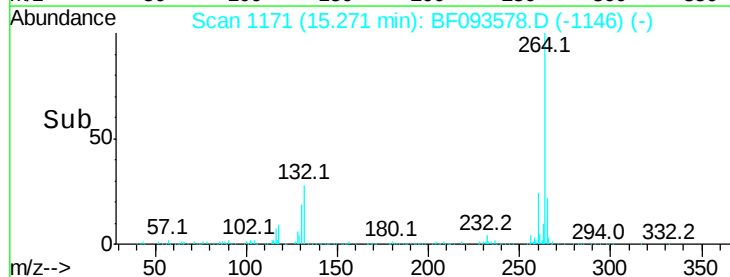
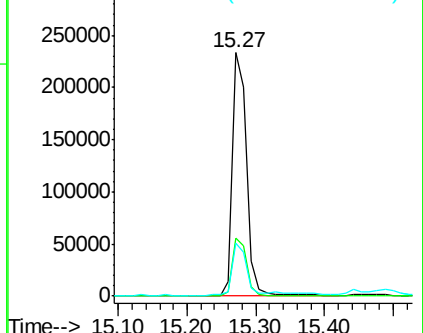
265 21.8 17.4 26.0

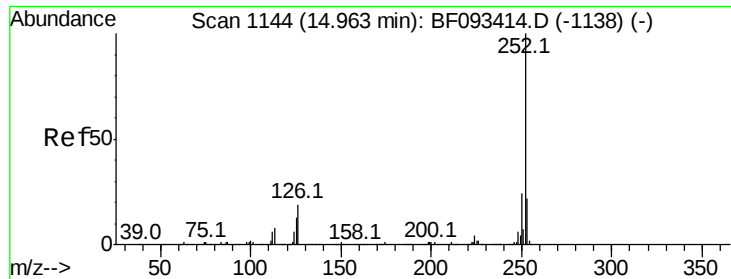


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E





#87

Benzo(b)fluoranthene

Concen: 12.25 ng

RT: 14.89 min Scan# 1138

Delta R.T. -0.00 min

Lab File: BF093578.D

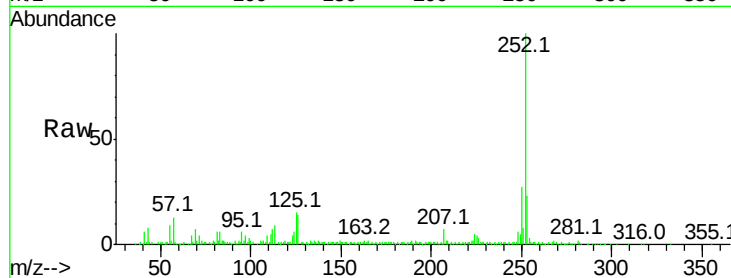
Acq: 11 Mar 2017 20:15

Instrument :

BNA_F

ClientSampleId :

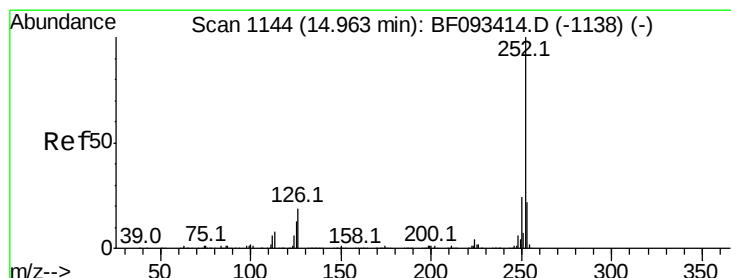
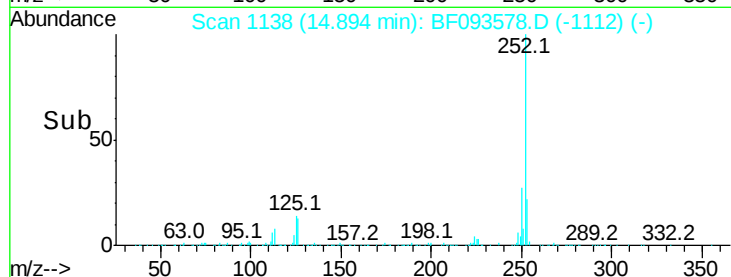
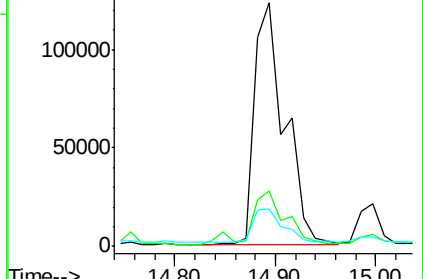
Tot Ion:	252	Resp:	258111
Ion Ratio	Lower	Upper	
252	100		
253	22.9	18.2	27.4
125	15.5	9.8	14.6#



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



#88

Benzo(k)fluoranthene

Concen: 12.70 ng

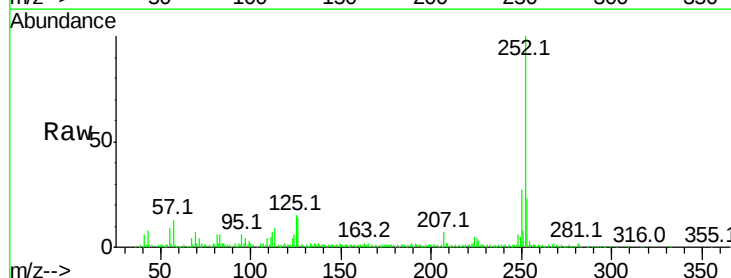
RT: 14.89 min Scan# 1138

Delta R.T. -0.02 min

Lab File: BF093578.D

Acq: 11 Mar 2017 20:15

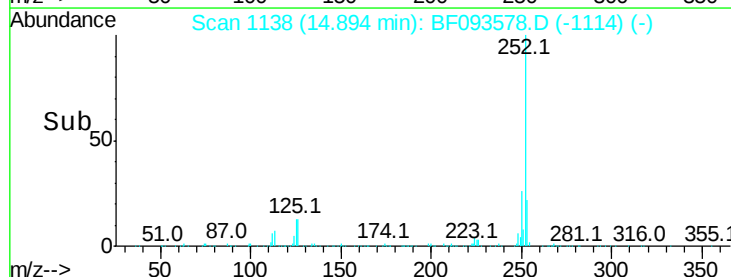
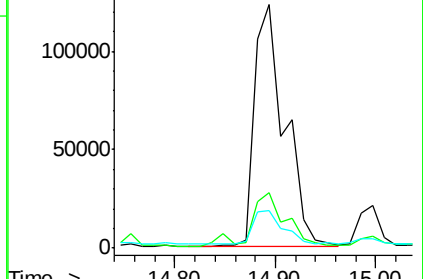
Tgt Ion:	252	Resp:	258111
Ion Ratio	Lower	Upper	
252	100		
253	22.9	18.5	27.7
125	15.5	8.9	13.3#

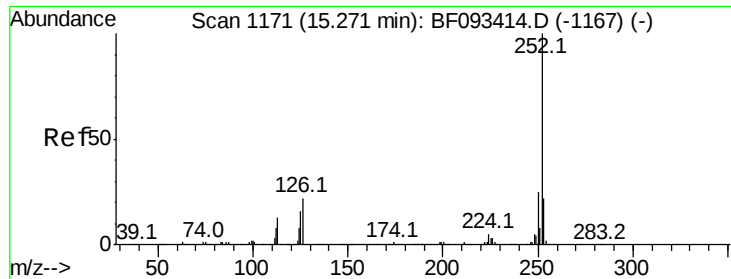


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#89

Benzo(a)pyrene

Concen: 7.45 ng

RT: 15.23 min Scan# 1167

Delta R.T. -0.00 min

Lab File: BF093578.D

Acq: 11 Mar 2017 20:15

Instrument :

BNA_F

ClientSampleId :

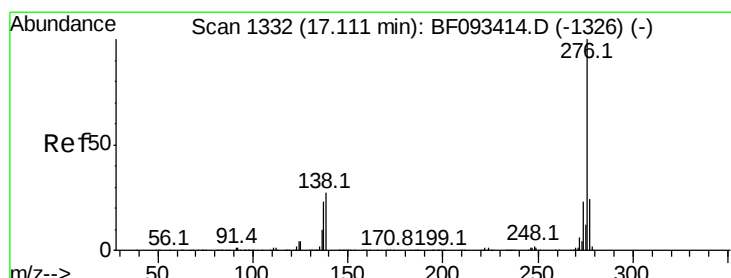
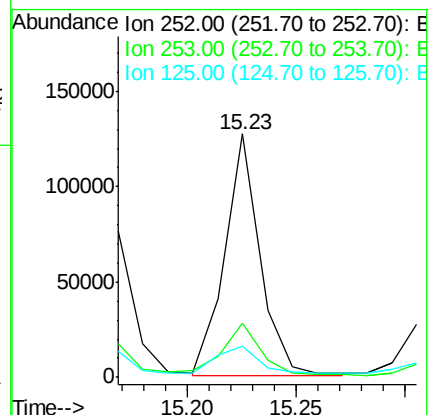
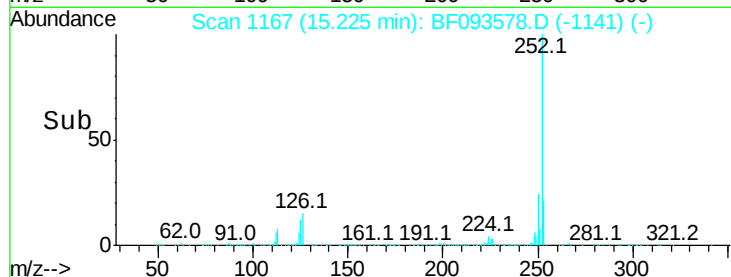
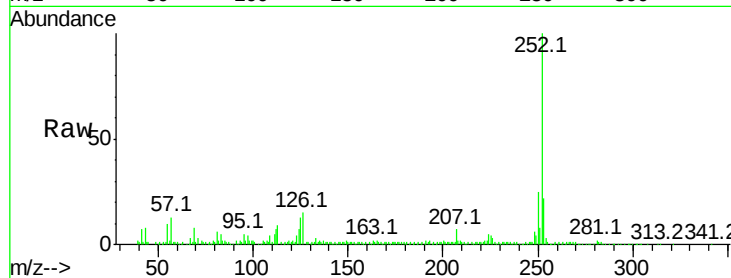
Tot Ion:252 Resp: 143511

Ion Ratio Lower Upper

252 100

253 22.4 18.2 27.2

125 13.0 10.0 15.0



#91

Benzo(g,h,i)perylene

Concen: 5.43 ng

RT: 17.03 min Scan# 1325

Delta R.T. 0.01 min

Lab File: BF093578.D

Acq: 11 Mar 2017 20:15

Tgt Ion:276 Resp: 88851

Ion Ratio Lower Upper

276 100

277 27.8 19.2 28.8

138 31.2 16.0 24.0#

