

Data File : BF093164.D
Acq On : 25 Feb 2017 00:26
Operator : SJ/MA
Sample : I1957-01
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SRI-SB-3(8-10)20170221

Quant Time: Feb 25 01:11:30 2017
Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF013017.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Feb 17 17:31:55 2017
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.83	152	160160	20.00	ng	-0.02
21) Naphthalene-d8	8.12	136	624191	20.00	ng	-0.02
38) Acenaphthene-d10	9.87	164	289094	20.00	ng	-0.02
63) Phenanthrene-d10	11.36	188	538539	20.00	ng	-0.02
75) Chrysene-d12	14.00	240	436819	20.00	ng	-0.02
86) Perylene-d12	15.43	264	300140	20.00	ng	-0.02

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.42	112	1055121	113.02	ng	-0.02
7) Phenol-d6	6.48	99	1490850	124.12	ng	-0.01
23) Nitrobenzene-d5	7.40	82	823602	73.48	ng	-0.02
41) 2,4,6-Tribromophenol	10.67	330	293386	140.32	ng	-0.01
44) 2-Fluorobiphenyl	9.20	172	1474433	92.40	ng	-0.02
78) Terphenyl-d14	12.95	244	1320903	71.05	ng	-0.02

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
10) Phenol	6.49	94	74479	5.30	ng	# 65
19) n-Nitroso-di-n-propylamine	7.40	70	108992	14.25	ng	# 80
25) Isophorone	7.40	82	672713	32.21	ng	# 65
49) Dimethylphthalate	9.60	163	239197	12.28	ng	99
54) Dibenzofuran	10.08	168	48698	2.15	ng	# 96
55) 4-Nitrophenol	10.08	139	17738	5.12	ng	# 6
56) 2,4-Dinitrotoluene	9.87	165	37320	6.67	ng	# 20
57) Fluorene	10.42	166	66011	3.79	ng	94
64) 4,6-Dinitro-2-methylphenol	10.66	198	831	2.91	ng	# 1
66) 4-Bromophenyl-phenylether	10.67	248	21869	3.89	ng	# 1
70) Phenanthrene	11.39	178	575127	18.64	ng	97
71) Anthracene	11.44	178	90346	2.92	ng	97
74) Fluoranthene	12.57	202	443218	13.93	ng	95
77) Pyrene	12.80	202	349718	10.70	ng	100
80) Benzo(a)anthracene	13.99	228	149451	5.59	ng	99
82) Chrysene	14.03	228	110227	4.41	ng	95
87) Benzo(b)fluoranthene	15.03	252	134165	6.79	ng	98
88) Benzo(k)fluoranthene	15.03	252	134165	7.87	ng	# 98
89) Benzo(a)pyrene	15.37	252	61422	3.59	ng	98
91) Benzo(g,h,i)perylene	17.25	276	29984	2.15	ng	# 91

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

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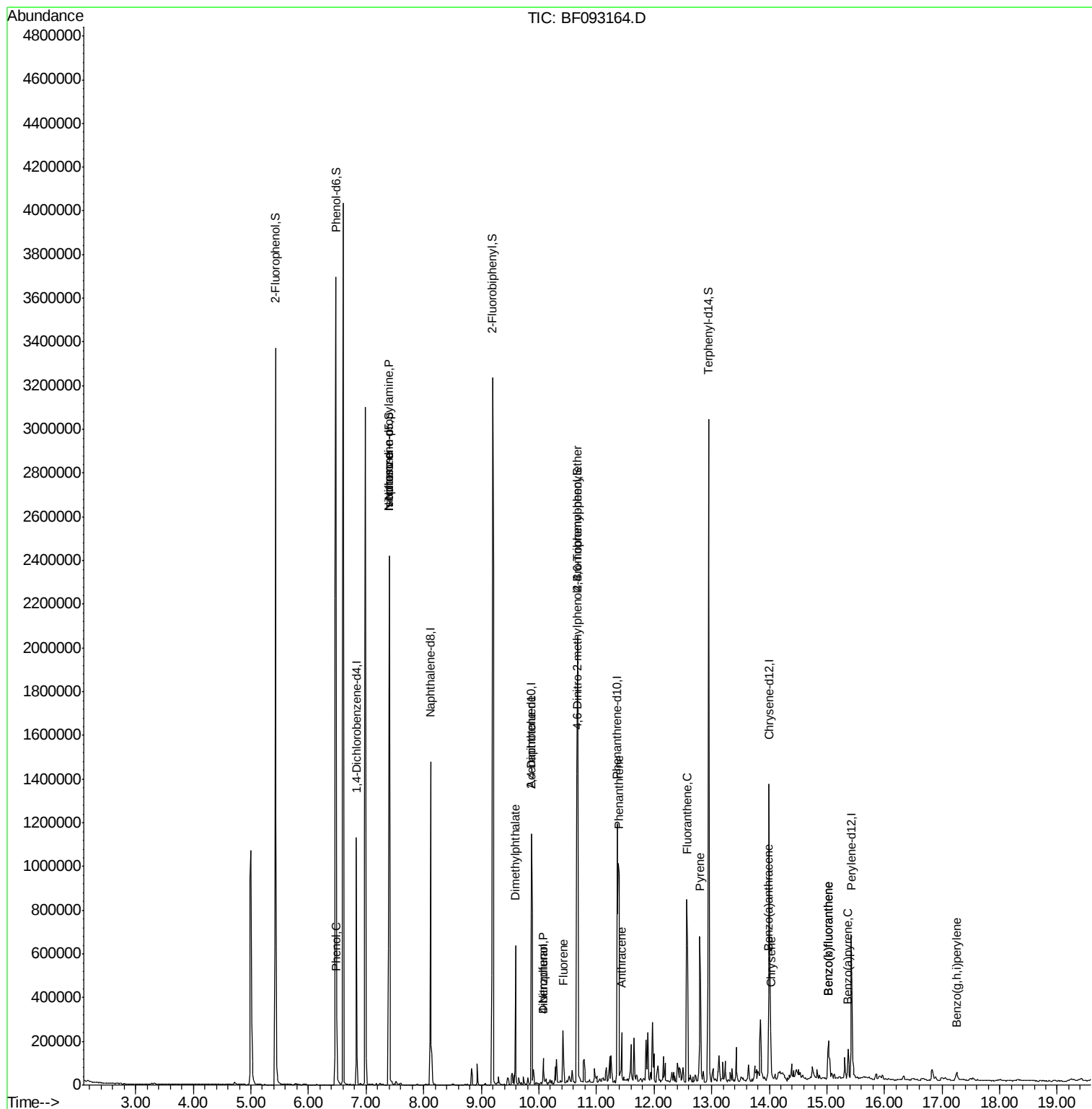
Quant Time: Feb 25 01:11:30 2017

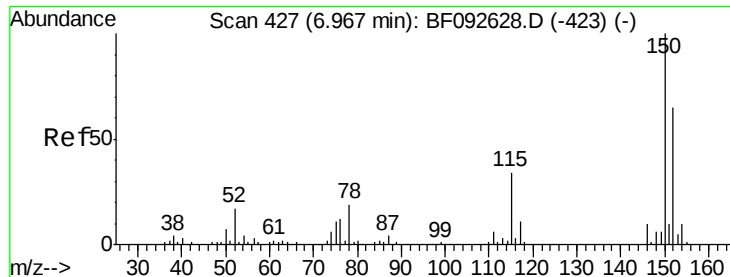
Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF013017.M

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QLast Update : Fri Feb 17 17:31:55 2017

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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.83 min Scan# 415

Delta R.T. -0.02 min

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Instrument :

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ClientSampleId :

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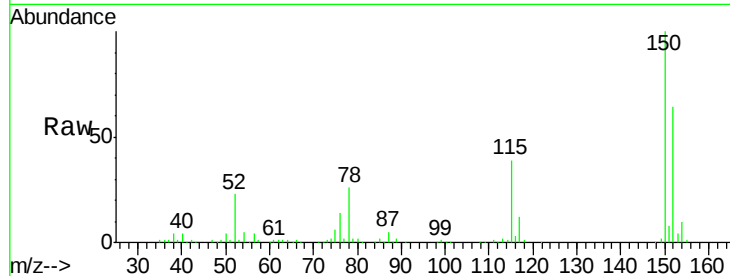
Tgt Ion:152 Resp: 160160

Ion Ratio Lower Upper

152 100

150 155.6 124.9 187.3

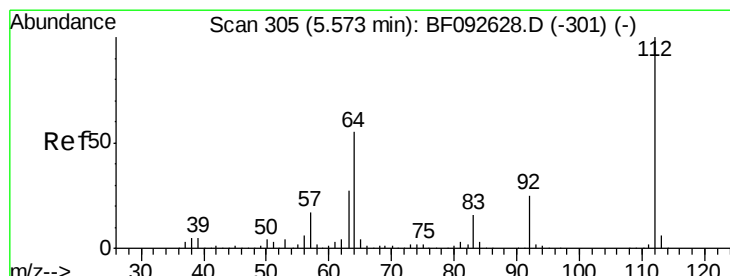
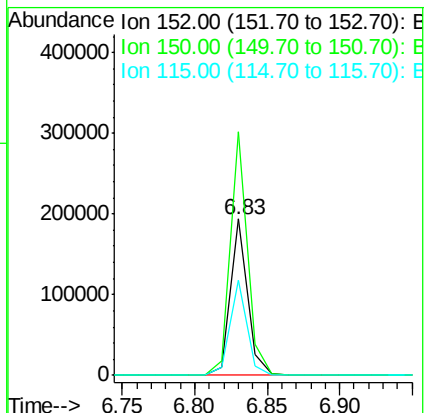
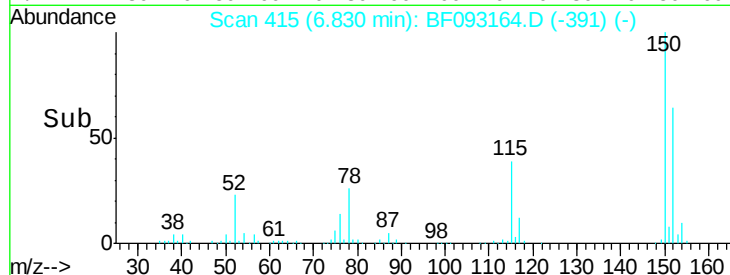
115 60.9 46.0 69.0



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: 113.02 ng

RT: 5.42 min Scan# 292

Delta R.T. -0.02 min

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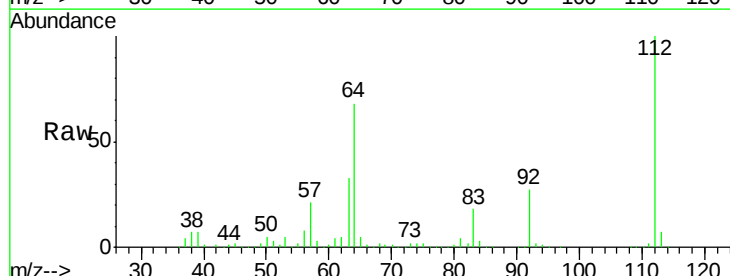
Tgt Ion:112 Resp: 1055121

Ion Ratio Lower Upper

112 100

64 67.9 46.1 69.1

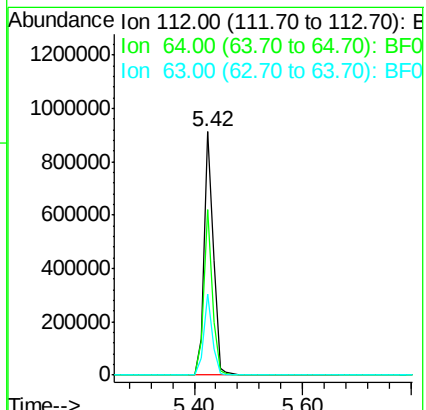
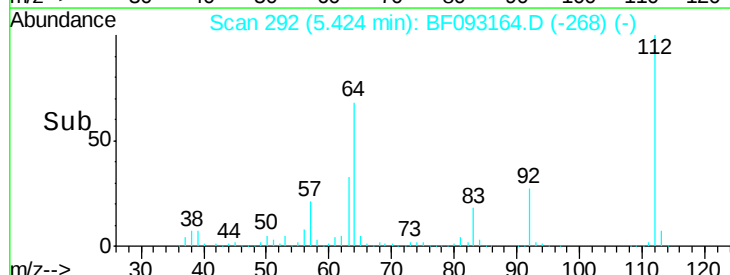
63 33.5 23.8 35.6

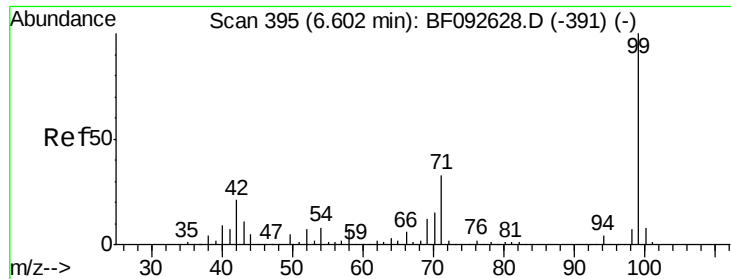


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 124.12 ng

RT: 6.48 min Scan# 384

Delta R.T. -0.01 min

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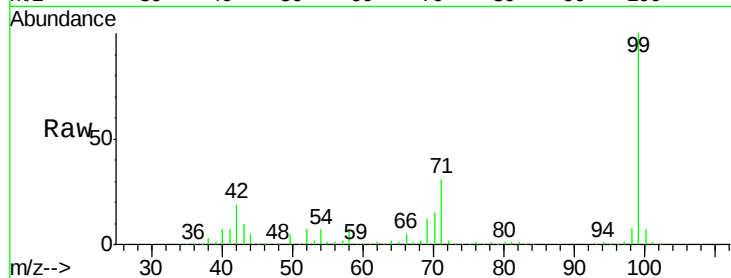
Tgt Ion: 99 Resp: 1490850

Ion Ratio Lower Upper

99 100

42 18.5 15.6 23.4

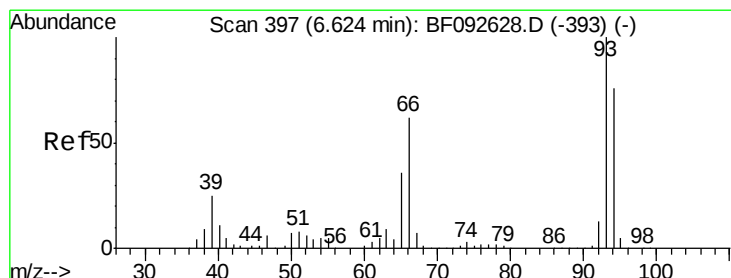
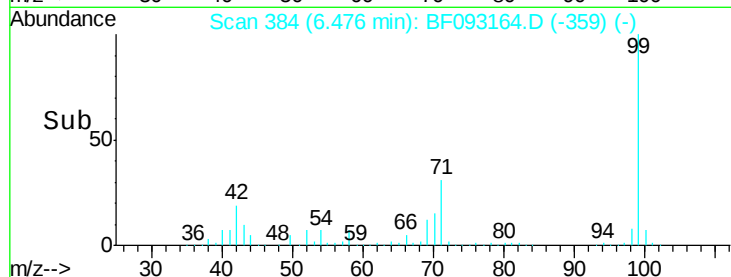
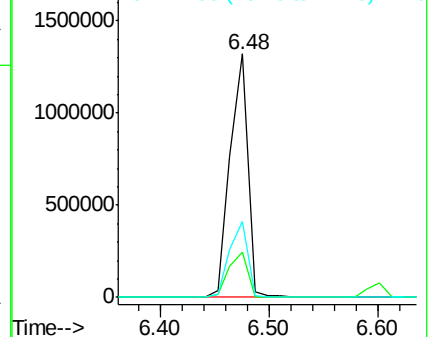
71 31.3 27.5 41.3



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: 5.30 ng

RT: 6.49 min Scan# 385

Delta R.T. -0.02 min

Lab File: BF093164.D

Acq: 25 Feb 2017 00:26

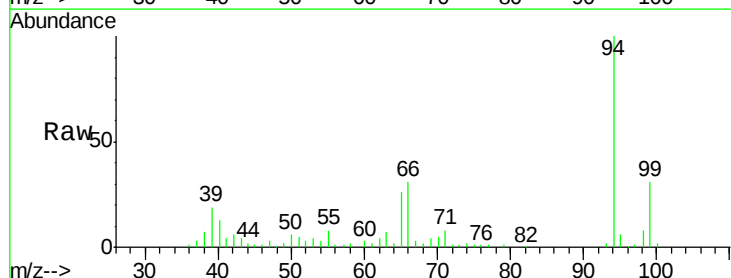
Tgt Ion: 94 Resp: 74479

Ion Ratio Lower Upper

94 100

65 25.5 21.4 61.4

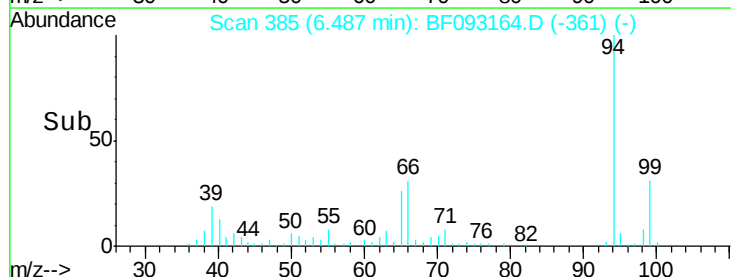
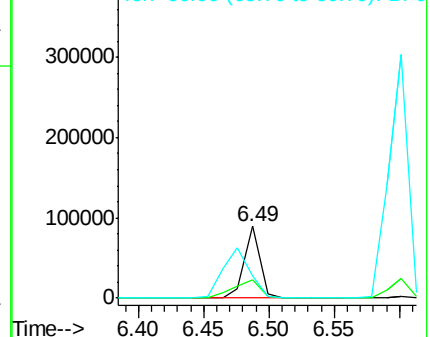
66 31.3 44.0 84.0#

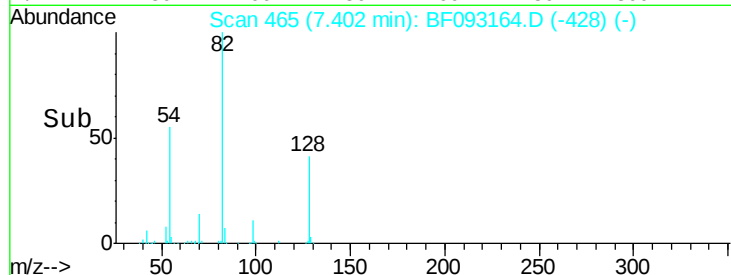
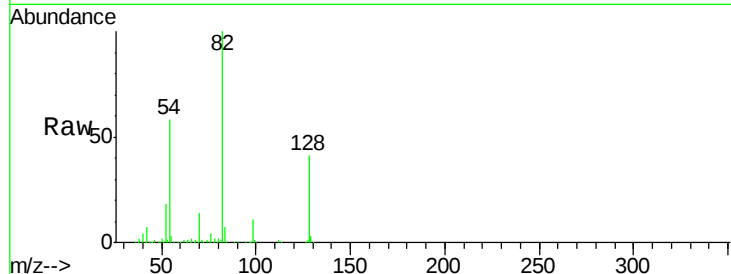


Abundance Ion 94.00 (93.70 to 94.70): BF0

Ion 65.00 (64.70 to 65.70): BF0

Ion 66.00 (65.70 to 66.70): BF0

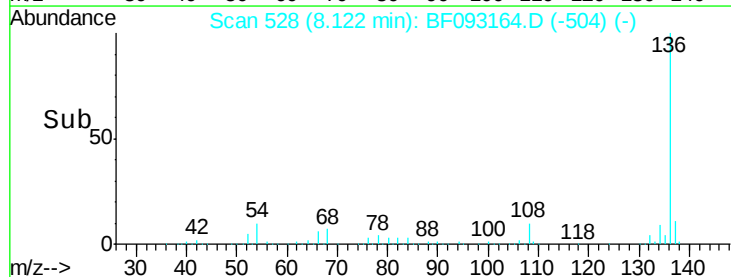
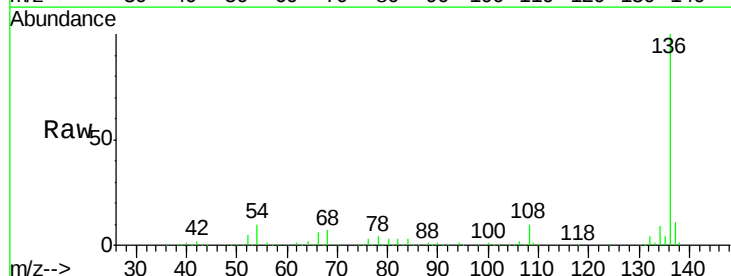
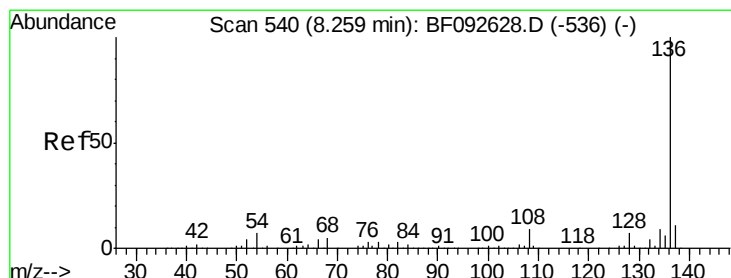
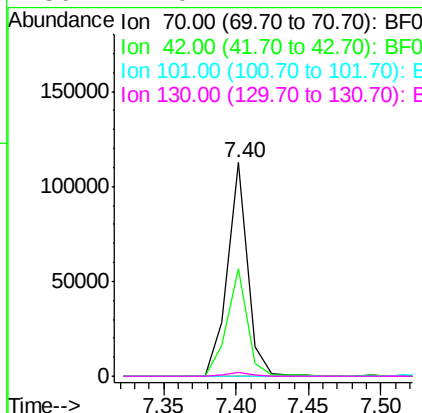




#19
n-Nitroso-di-n-propylamine
Concen: 14.25 ng
RT: 7.40 min Scan# 465
Delta R.T. 0.13 min
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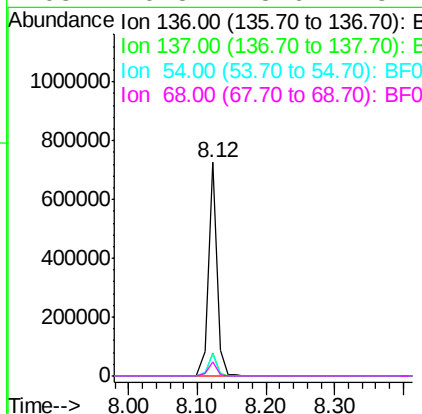
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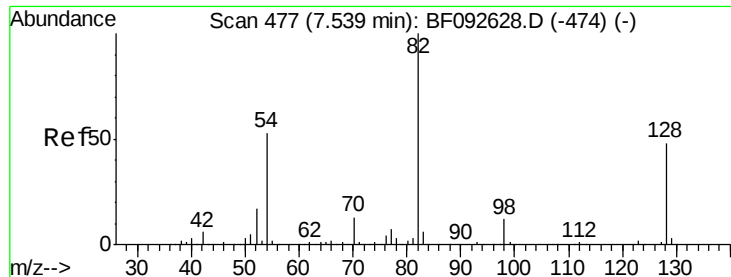
Tgt Ion:	70	Resp:	108992
Ion	Ratio	Lower	Upper
70	100		
42	50.5	49.4	74.0
101	0.0	7.4	11.2#
130	2.0	14.2	21.4#



#21
Naphthalene-d8
Concen: 20.00 ng
RT: 8.12 min Scan# 528
Delta R.T. -0.02 min
Lab File: BF093164.D
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Tgt Ion:	136	Resp:	624191
Ion	Ratio	Lower	Upper
136	100		
137	11.0	8.4	12.6
54	10.1	4.5	6.7#
68	6.8	3.6	5.4#

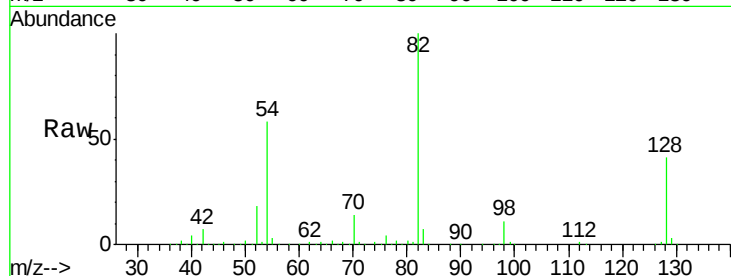




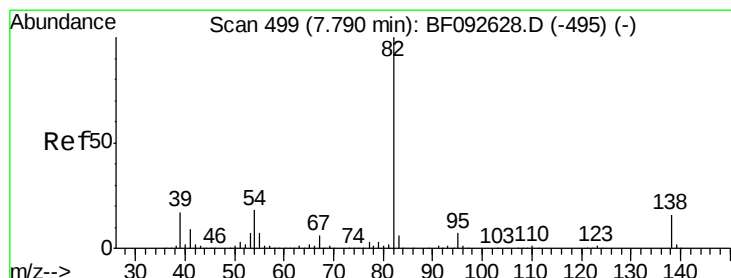
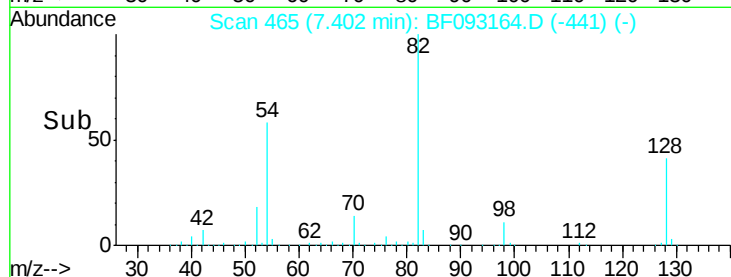
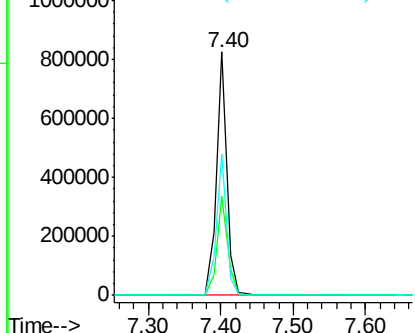
#23
 Nitrobenzene-d5
 Concen: 73.48 ng
 RT: 7.40 min Scan# 465
 Delta R.T. -0.02 min
 Lab File: BF093164.D
 Acq: 25 Feb 2017 00:26

Instrument :
 BNA_F
 ClientSampleId :
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Tgt Ion: 82 Resp: 823602
 Ion Ratio Lower Upper
 82 100
 128 40.7 34.6 52.0
 54 57.8 39.5 59.3

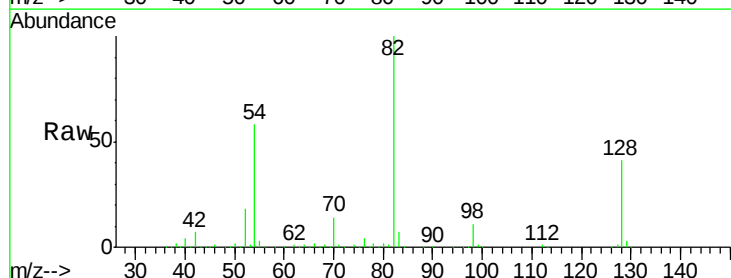


Abundance Ion 82.00 (81.70 to 82.70): BF0
 Ion 128.00 (127.70 to 128.70): BF0
 Ion 54.00 (53.70 to 54.70): BF0

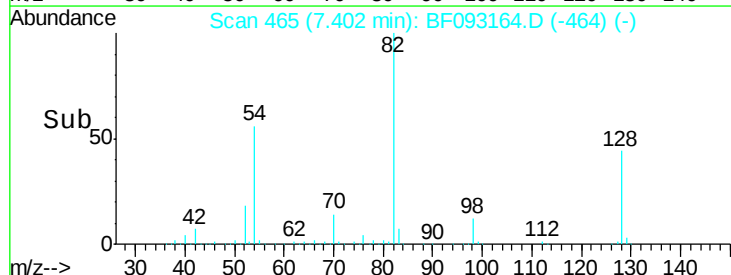
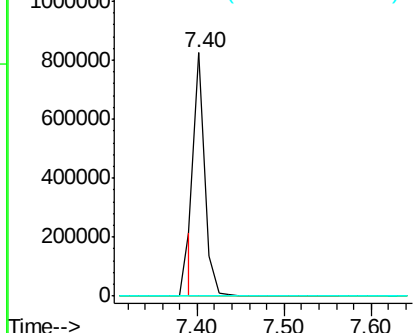


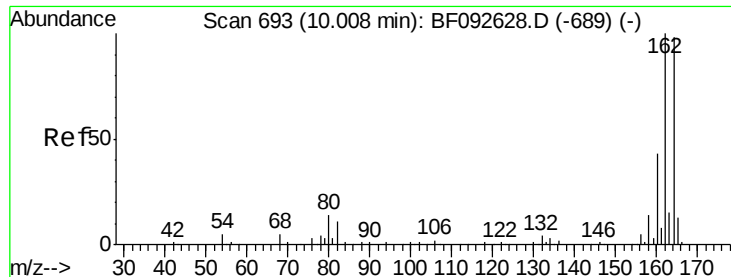
#25
 Isophorone
 Concen: 32.21 ng
 RT: 7.40 min Scan# 465
 Delta R.T. -0.29 min
 Lab File: BF093164.D
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Tgt Ion: 82 Resp: 672713
 Ion Ratio Lower Upper
 82 100
 95 0.0 5.6 8.4#
 138 0.0 14.6 22.0#



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

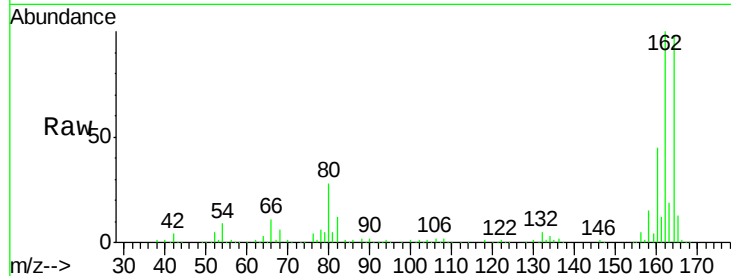




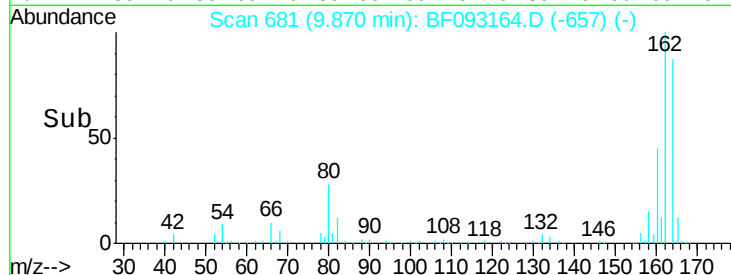
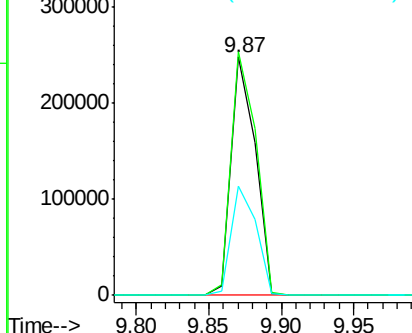
#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 9.87 min Scan# 681
Delta R.T. -0.02 min
Lab File: BF093164.D
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Instrument :
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ClientSampleId :
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Tgt Ion:164 Resp: 289094
Ion Ratio Lower Upper
164 100
162 102.2 80.2 120.2
160 45.6 36.9 55.3

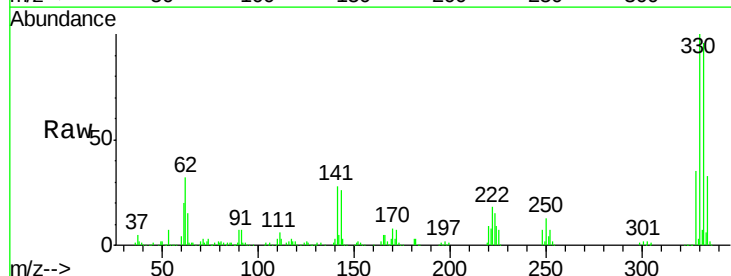


Abundance Ion 164.00 (163.70 to 164.70): E
Ion 162.00 (161.70 to 162.70): E
Ion 160.00 (159.70 to 160.70): E

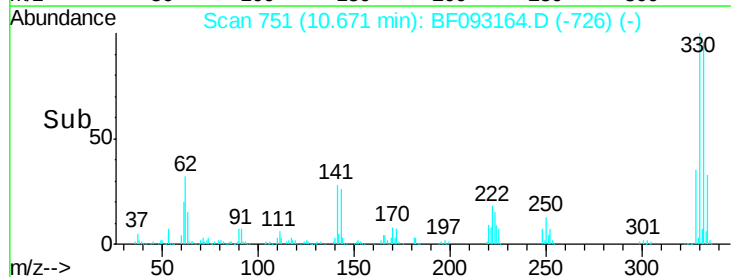
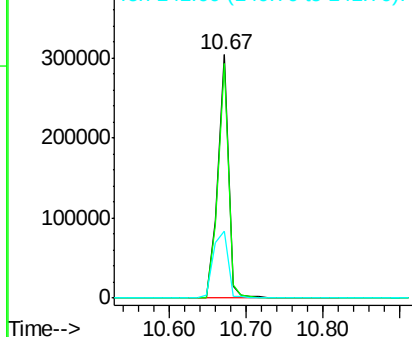


#41
2,4,6-Tribromophenol
Concen: 140.32 ng
RT: 10.67 min Scan# 751
Delta R.T. -0.01 min
Lab File: BF093164.D
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Tgt Ion:330 Resp: 293386
Ion Ratio Lower Upper
330 100
332 96.6 77.4 116.2
141 38.3 34.1 51.1



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

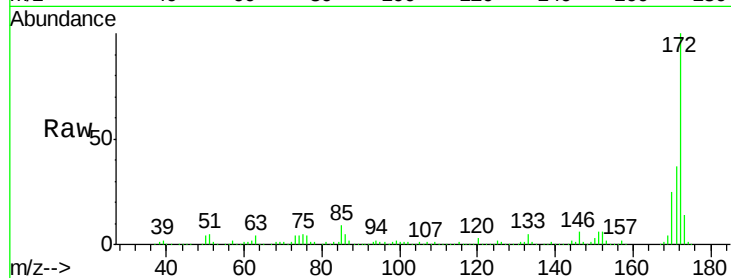




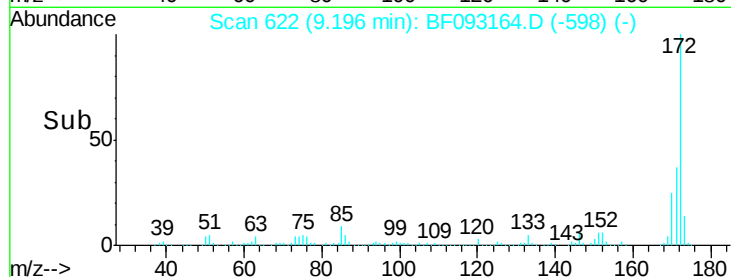
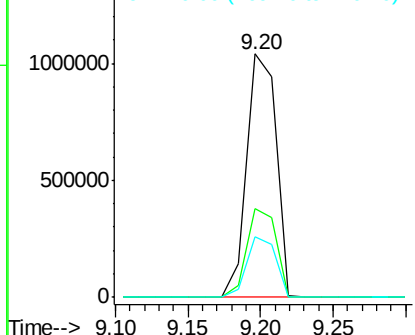
#44
2-Fluorobiphenyl
Concen: 92.40 ng
RT: 9.20 min Scan# 622
Delta R.T. -0.02 min
Lab File: BF093164.D
Acq: 25 Feb 2017 00:26

Instrument :
BNA_F
ClientSampleId :
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Tgt Ion:172 Resp: 1474433
Ion Ratio Lower Upper
172 100
171 36.7 29.4 44.0
170 24.8 20.2 30.4

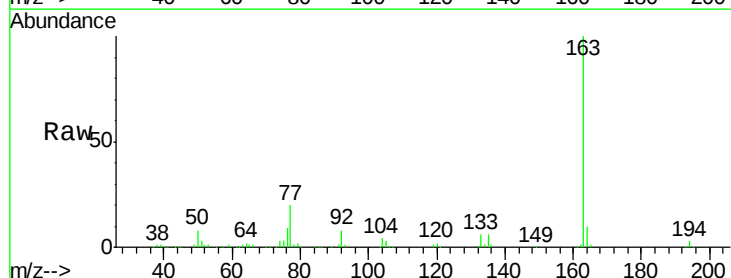


Abundance Ion 172.00 (171.70 to 172.70): E
Ion 171.00 (170.70 to 171.70): E
Ion 170.00 (169.70 to 170.70): E

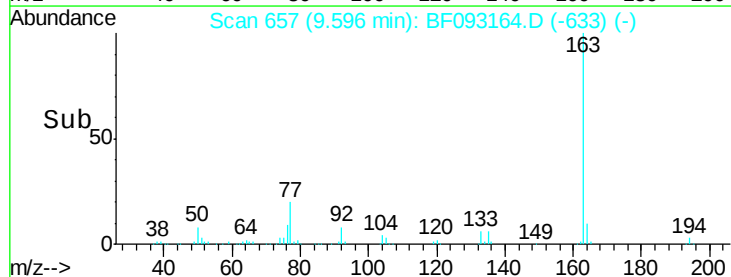
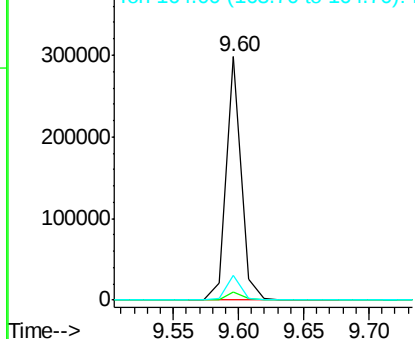


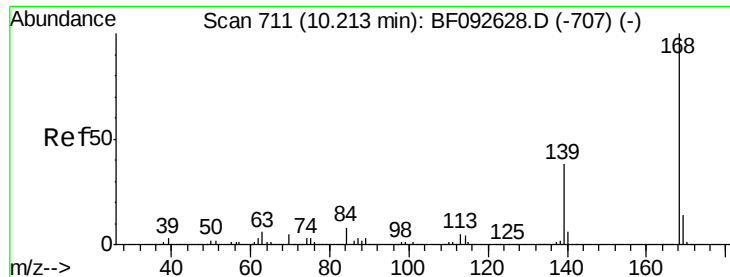
#49
Dimethylphthalate
Concen: 12.28 ng
RT: 9.60 min Scan# 657
Delta R.T. -0.02 min
Lab File: BF093164.D
Acq: 25 Feb 2017 00:26

Tgt Ion:163 Resp: 239197
Ion Ratio Lower Upper
163 100
194 3.4 3.0 4.4
164 10.1 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

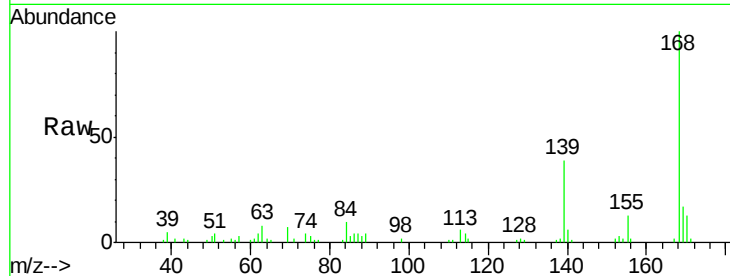




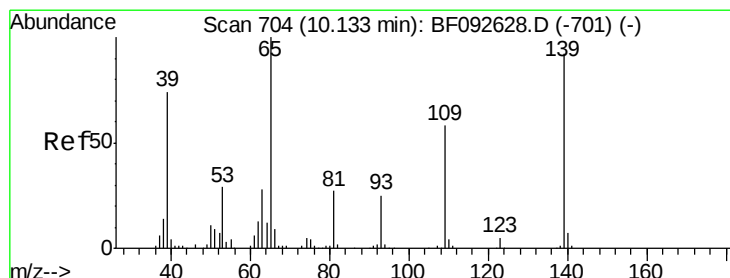
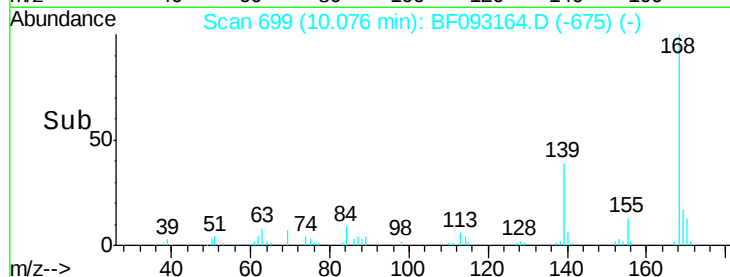
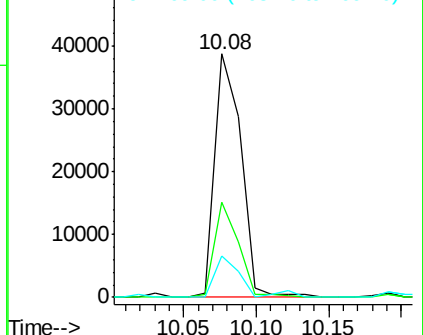
#54
Dibenzenofuran
Concen: 2.15 ng
RT: 10.08 min Scan# 699
Delta R.T. -0.02 min
Lab File: BF093164.D
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Instrument :
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Tgt Ion:168 Resp: 48698
Ion Ratio Lower Upper
168 100
139 39.2 32.6 49.0
169 17.1 11.3 16.9#

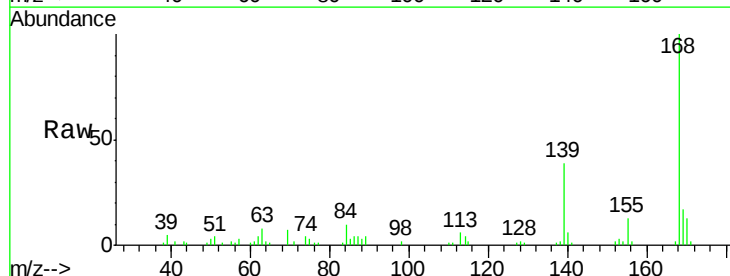


Abundance Ion 168.00 (167.70 to 168.70): E
Ion 139.00 (138.70 to 139.70): E
Ion 169.00 (168.70 to 169.70): E

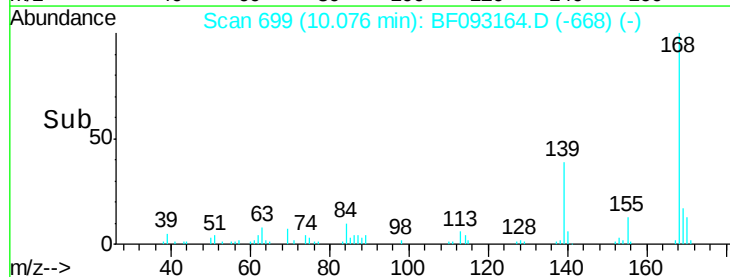
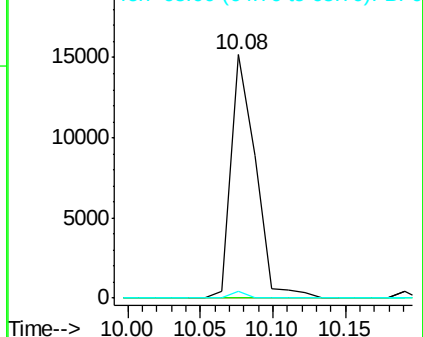


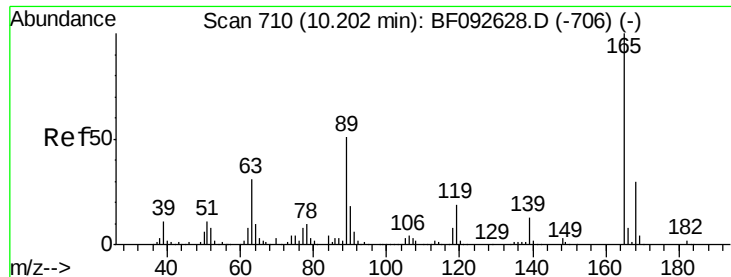
#55
4-Nitrophenol
Concen: 5.12 ng
RT: 10.08 min Scan# 699
Delta R.T. 0.06 min
Lab File: BF093164.D
Acq: 25 Feb 2017 00:26

Tgt Ion:139 Resp: 17738
Ion Ratio Lower Upper
139 100
109 0.0 52.2 92.2#
65 3.0 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

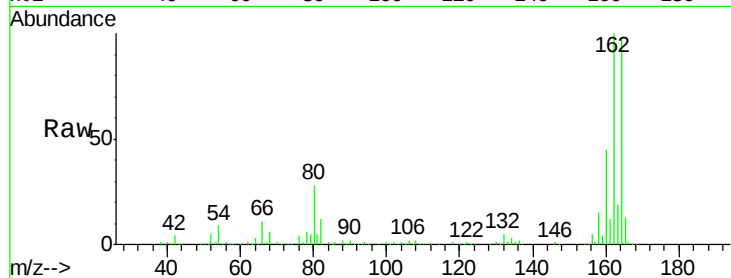




#56
2,4-Dinitrotoluene
Concen: 6.67 ng
RT: 9.87 min Scan# 681
Delta R.T. -0.22 min
Lab File: BF093164.D
Acq: 25 Feb 2017 00:26

Instrument :
BNA_F
ClientSampleId :
SRI-SB-3(8-10)20170221

Tgt Ion	Ratio	Lower	Upper
165	100		
63	1.6	40.2	60.4#
89	1.7	62.5	93.7#
182	0.0	1.8	2.8#

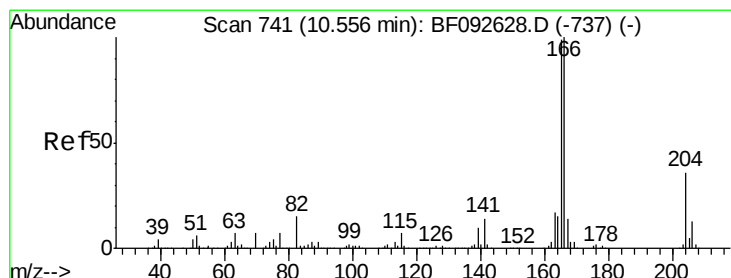
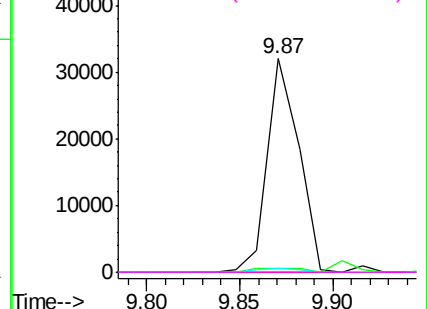
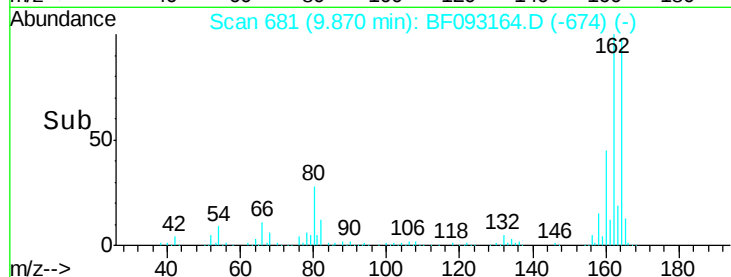


Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF0

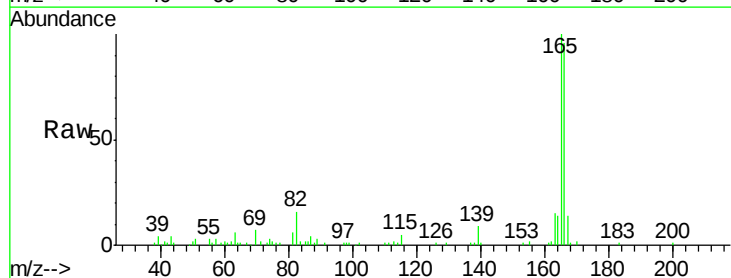
Ion 89.00 (88.70 to 89.70): BF0

Ion 182.00 (181.70 to 182.70): E



#57
Fluorene
Concen: 3.79 ng
RT: 10.42 min Scan# 729
Delta R.T. -0.02 min
Lab File: BF093164.D
Acq: 25 Feb 2017 00:26

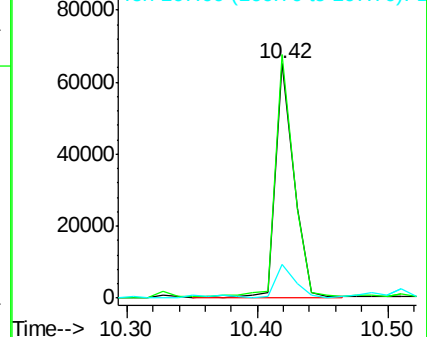
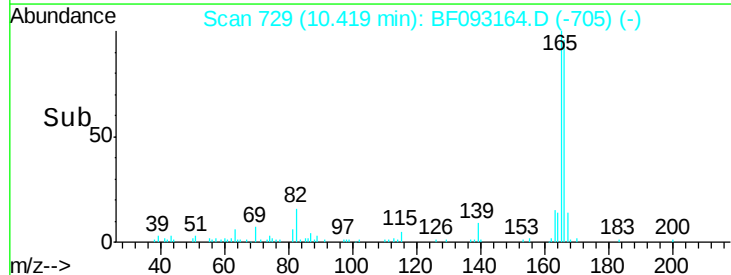
Tgt Ion	Ratio	Lower	Upper
166	100		
165	103.9	77.8	116.8
167	14.2	10.8	16.2

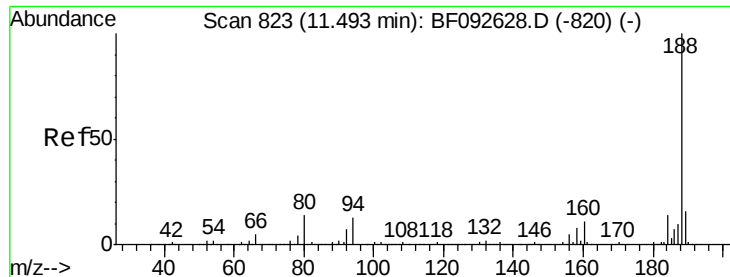


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E

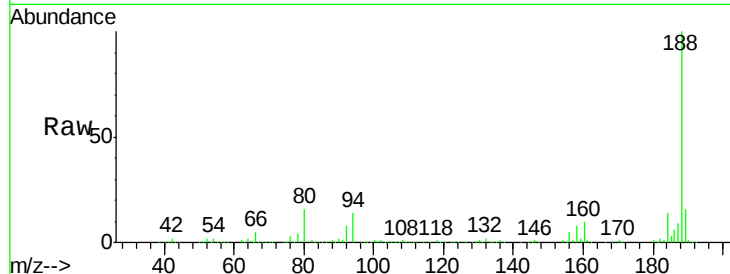




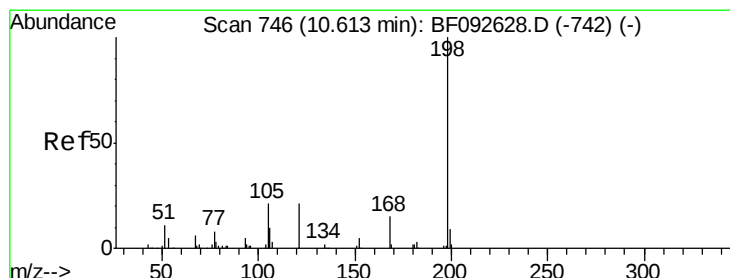
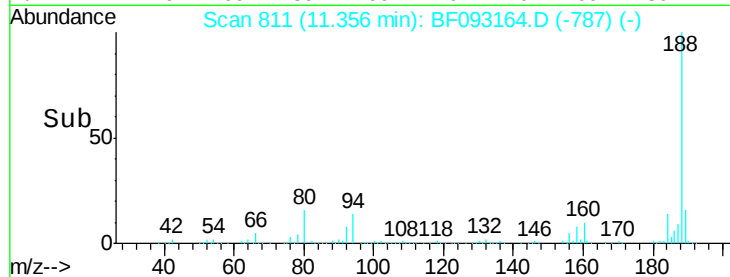
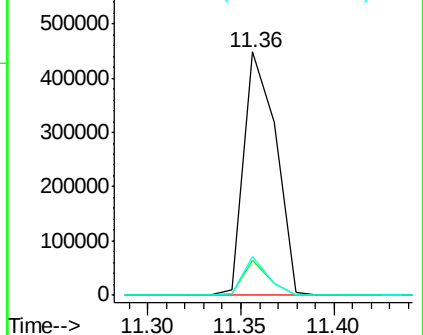
#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 11.36 min Scan# 811
Delta R.T. -0.02 min
Lab File: BF093164.D
Acq: 25 Feb 2017 00:26

Instrument :
BNA_F
ClientSampleId :
SRI-SB-3(8-10)20170221

Tgt Ion	Ratio	Lower	Upper
188	100		
94	14.4	10.0	15.0
80	15.9	11.2	16.8

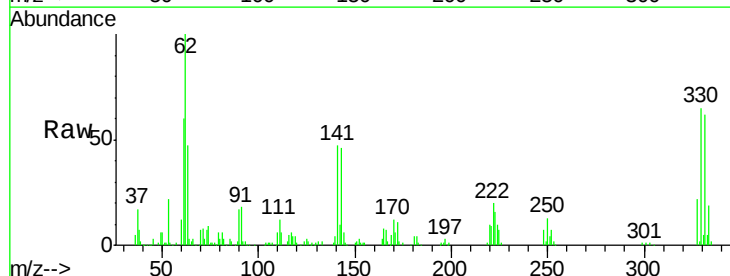


Abundance Ion 188.00 (187.70 to 188.70): E
Ion 94.00 (93.70 to 94.70): BF0
Ion 80.00 (79.70 to 80.70): BF0

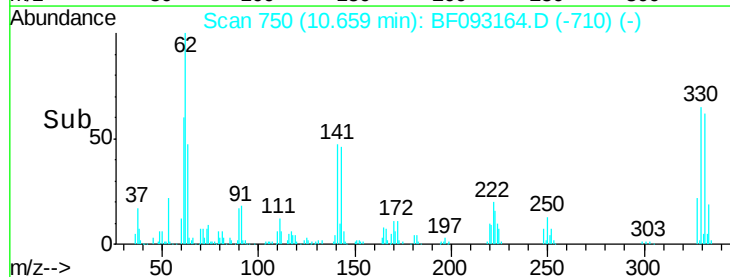
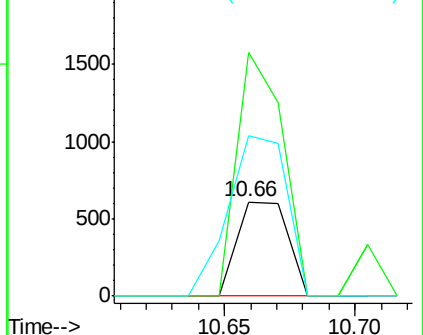


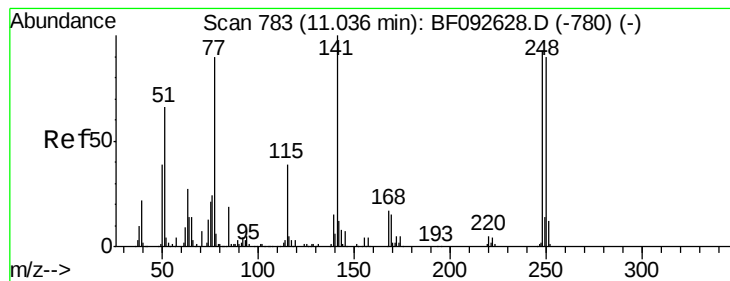
#64
4,6-Dinitro-2-methylphenol
Concen: 2.91 ng
RT: 10.66 min Scan# 750
Delta R.T. 0.16 min
Lab File: BF093164.D
Acq: 25 Feb 2017 00:26

Tgt Ion	Ratio	Lower	Upper
198	100		
51	258.6	6.7	46.7#
105	170.6	16.6	56.6#



Abundance Ion 198.00 (197.70 to 198.70): E
Ion 51.00 (50.70 to 51.70): BF0
Ion 105.00 (104.70 to 105.70): E





#66

4-Bromophenyl-phenylether

Concen: 3.89 ng

RT: 10.67 min Scan# 751

Delta R.T. -0.25 min

Lab File: BF093164.D

Acq: 25 Feb 2017 00:26

Instrument :

BNA_F

ClientSampleId :

SRI-SB-3(8-10)20170221

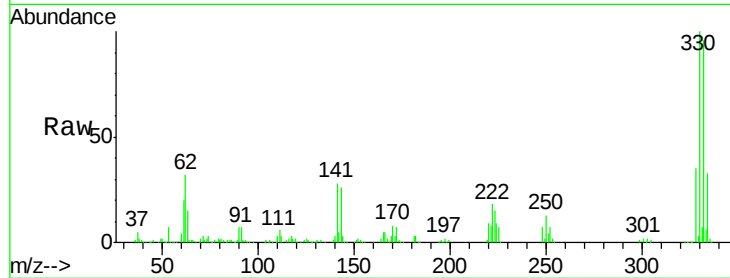
Tgt Ion:248 Resp: 21869

Ion Ratio Lower Upper

248 100

250 195.3 76.9 115.3#

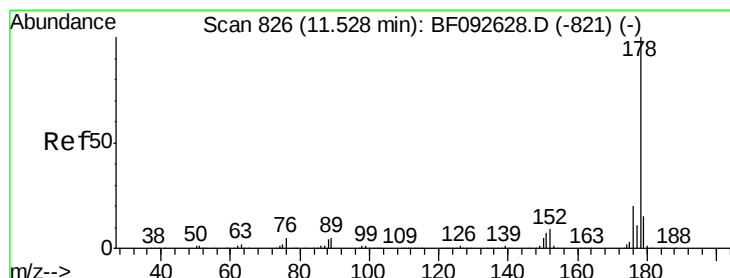
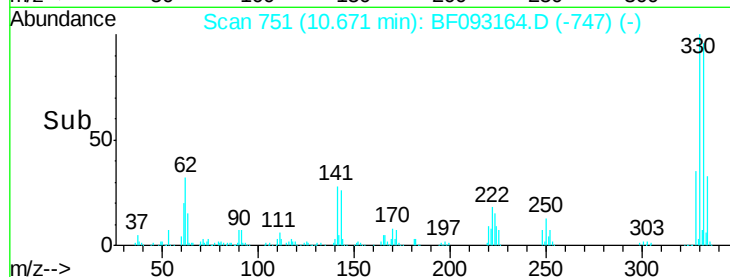
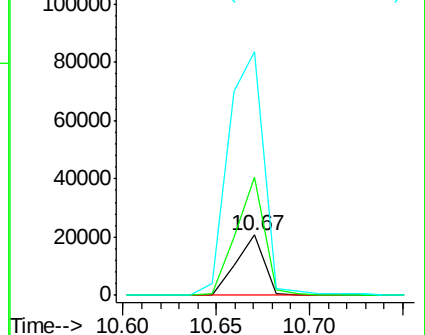
141 402.5 68.2 102.4#



Abundance Ion 248.00 (247.70 to 248.70): E

Ion 250.00 (249.70 to 250.70): E

Ion 141.00 (140.70 to 141.70): E



#70

Phenanthrene

Concen: 18.64 ng

RT: 11.39 min Scan# 814

Delta R.T. -0.01 min

Lab File: BF093164.D

Acq: 25 Feb 2017 00:26

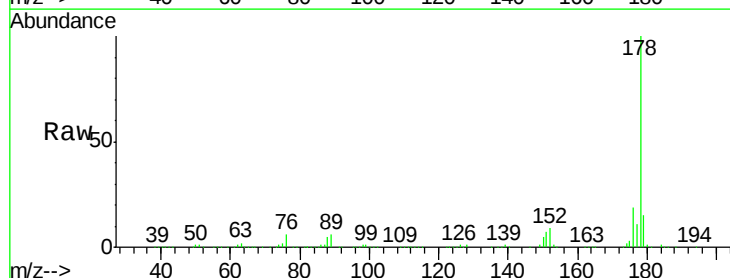
Tgt Ion:178 Resp: 575127

Ion Ratio Lower Upper

178 100

176 18.9 16.6 25.0

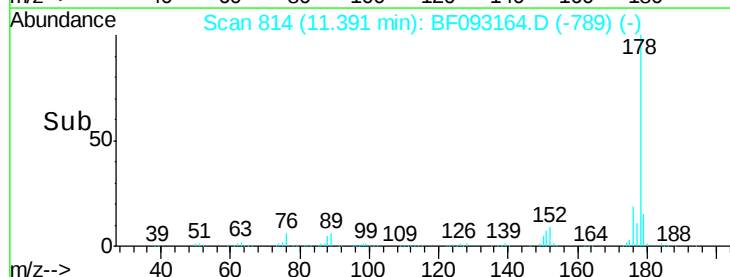
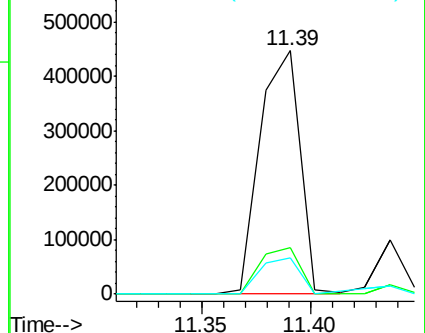
179 14.9 12.8 19.2

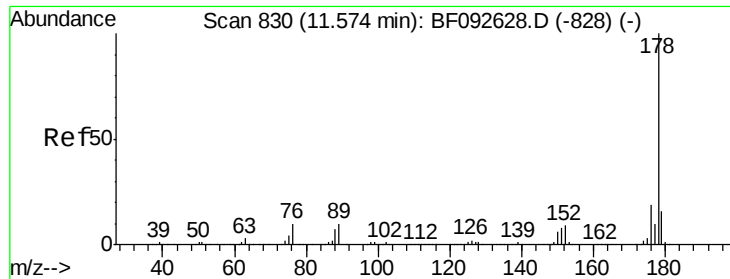


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E

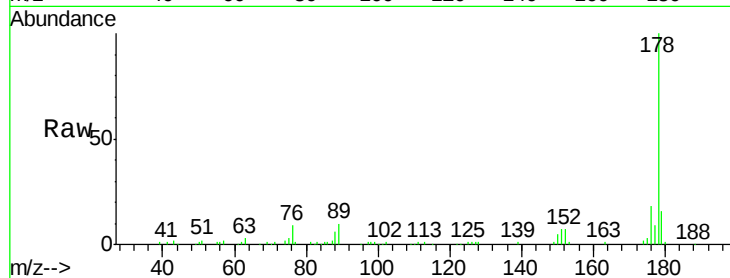




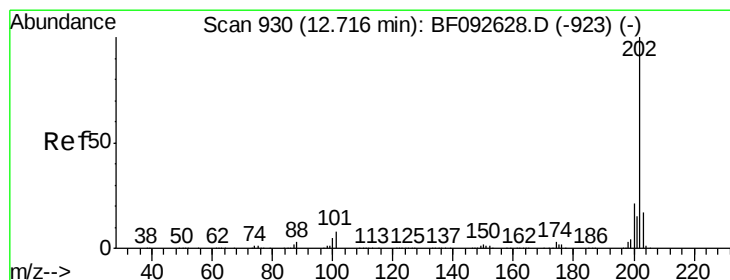
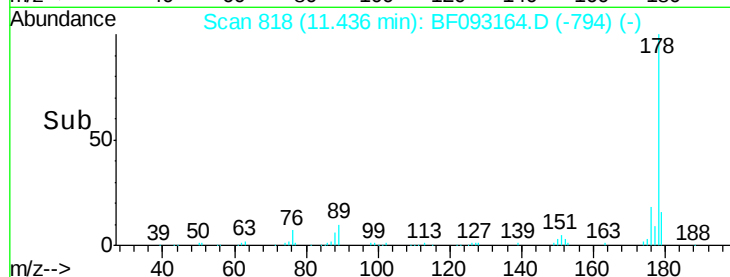
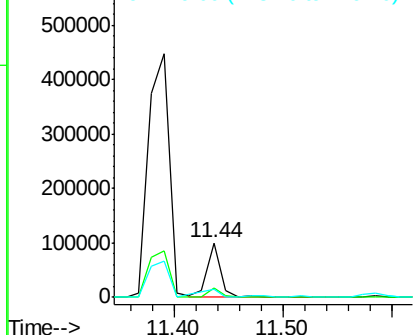
#71
 Anthracene
 Concen: 2.92 ng
 RT: 11.44 min Scan# 818
 Delta R.T. -0.02 min
 Lab File: BF093164.D
 Acq: 25 Feb 2017 00:26

Instrument :
 BNA_F
 ClientSampleId :
 SRI-SB-3(8-10)20170221

Tgt Ion:178 Resp: 90346
 Ion Ratio Lower Upper
 178 100
 176 18.1 15.9 23.9
 179 15.9 13.2 19.8

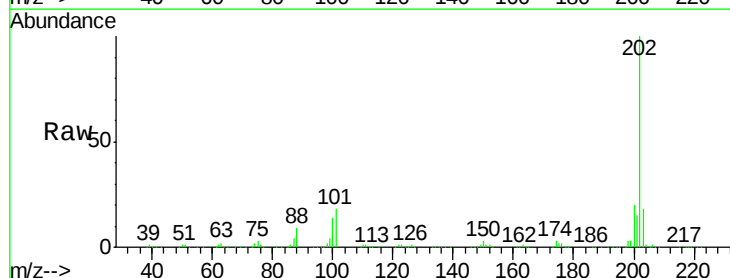


Abundance Ion 178.00 (177.70 to 178.70): E
 Ion 176.00 (175.70 to 176.70): E
 Ion 179.00 (178.70 to 179.70): E

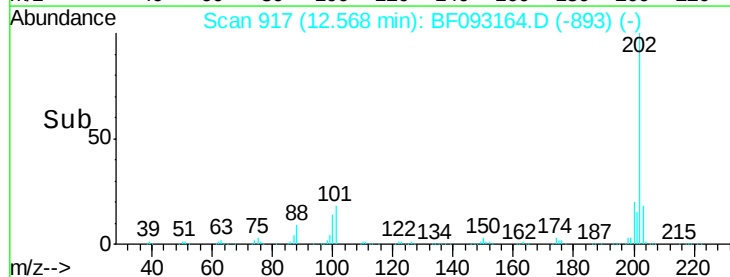
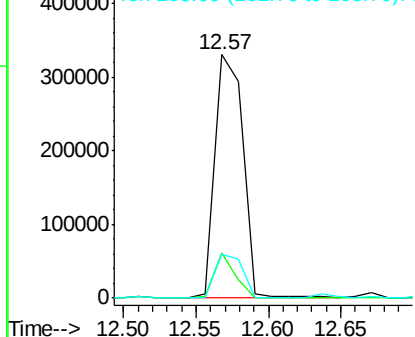


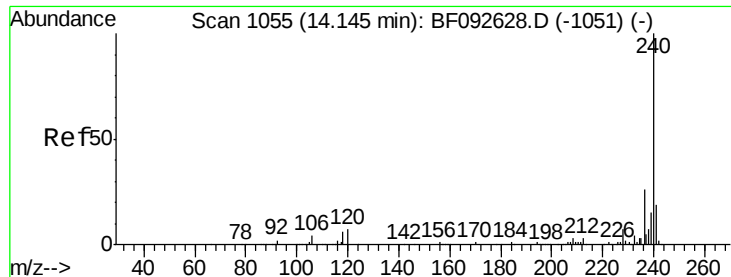
#74
 Fluoranthene
 Concen: 13.93 ng
 RT: 12.57 min Scan# 917
 Delta R.T. -0.02 min
 Lab File: BF093164.D
 Acq: 25 Feb 2017 00:26

Tgt Ion:202 Resp: 443218
 Ion Ratio Lower Upper
 202 100
 101 18.5 0.0 34.6
 203 17.8 0.0 38.7



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





#75

Chrysene-d12

Concen: 20.00 ng

RT: 14.00 min Scan# 1042

Delta R.T. -0.02 min

Lab File: BF093164.D

Acq: 25 Feb 2017 00:26

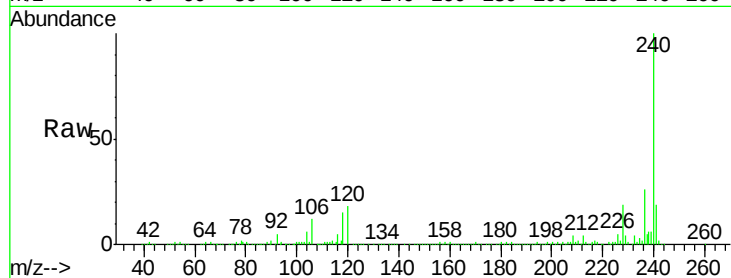
Instrument :

BNA_F

ClientSampleId :

SRI-SB-3(8-10)20170221

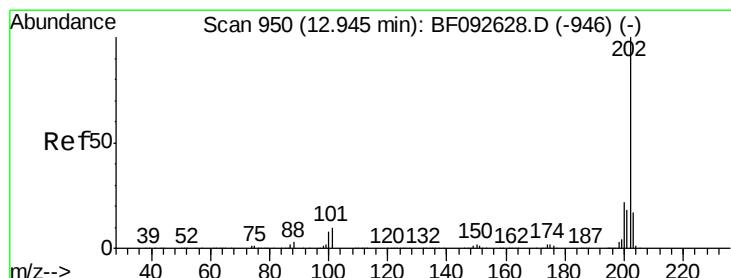
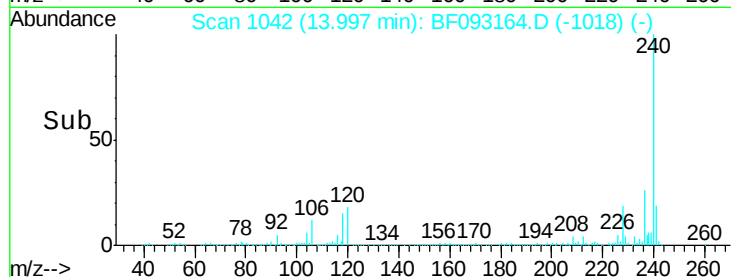
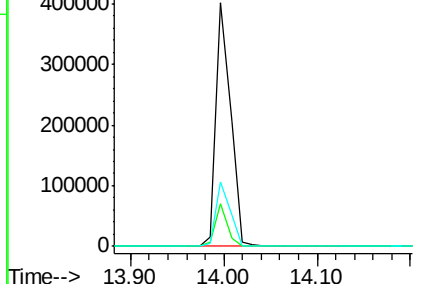
Tgt Ion:	240	Resp:	436819
Ion	Ratio	Lower	Upper
240	100		
120	17.6	12.9	19.3
236	26.3	20.9	31.3



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: 10.70 ng

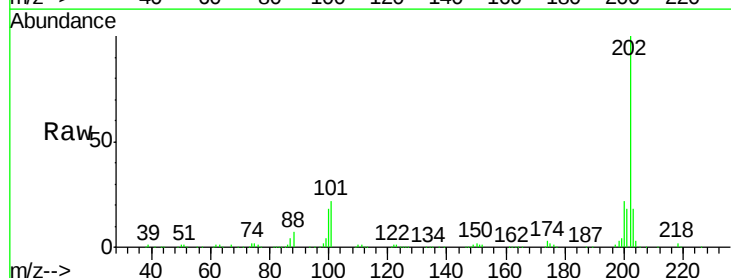
RT: 12.80 min Scan# 937

Delta R.T. -0.02 min

Lab File: BF093164.D

Acq: 25 Feb 2017 00:26

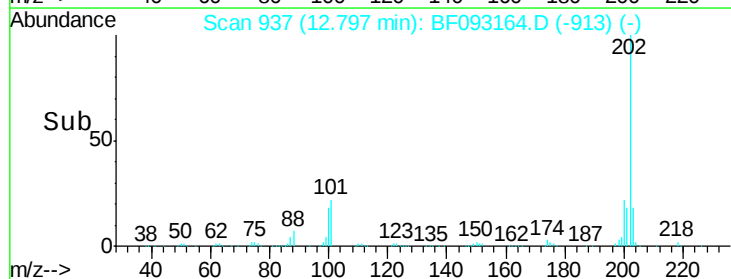
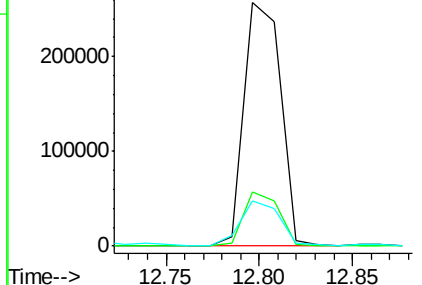
Tgt Ion:	202	Resp:	349718
Ion	Ratio	Lower	Upper
202	100		
200	22.1	17.7	26.5
203	18.5	14.7	22.1

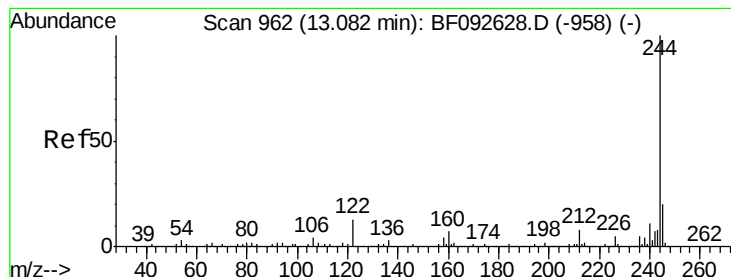


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#78

Terphenyl-d14

Concen: 71.05 ng

RT: 12.95 min Scan# 950

Delta R.T. -0.02 min

Lab File: BF093164.D

Acq: 25 Feb 2017 00:26

Instrument :

BNA_F

ClientSampleId :

SRI-SB-3(8-10)20170221

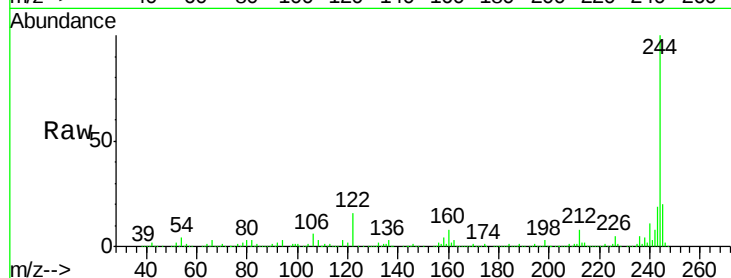
Tgt Ion:244 Resp: 1320903

Ion Ratio Lower Upper

244 100

212 7.7 6.2 9.2

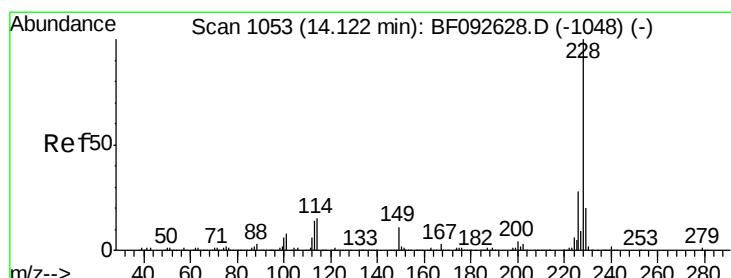
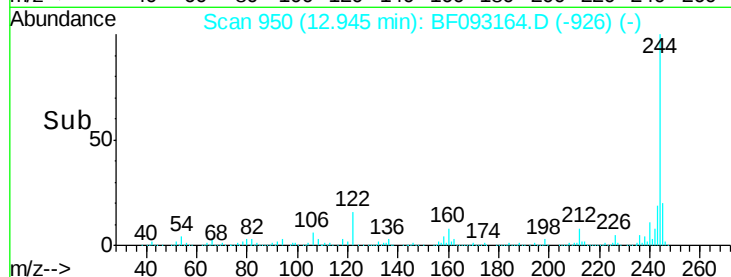
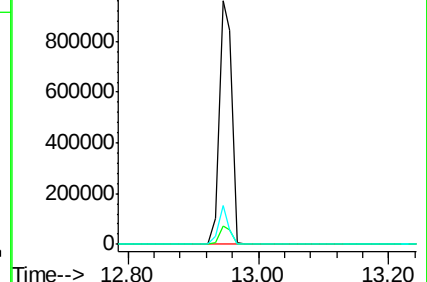
122 15.7 11.4 17.2



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: 5.59 ng

RT: 13.99 min Scan# 1041

Delta R.T. -0.02 min

Lab File: BF093164.D

Acq: 25 Feb 2017 00:26

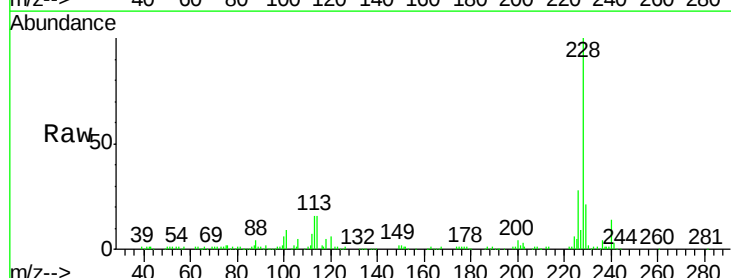
Tgt Ion:228 Resp: 149451

Ion Ratio Lower Upper

228 100

226 27.8 22.4 33.6

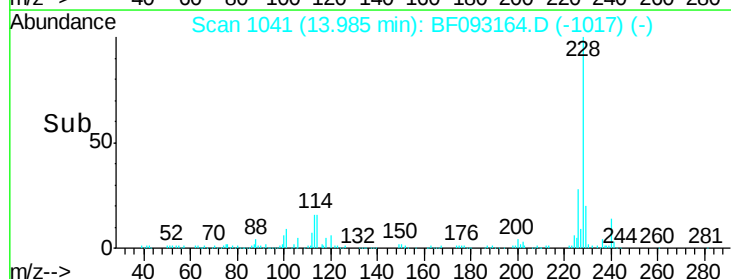
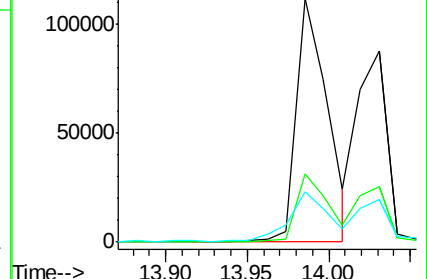
229 20.7 16.2 24.4

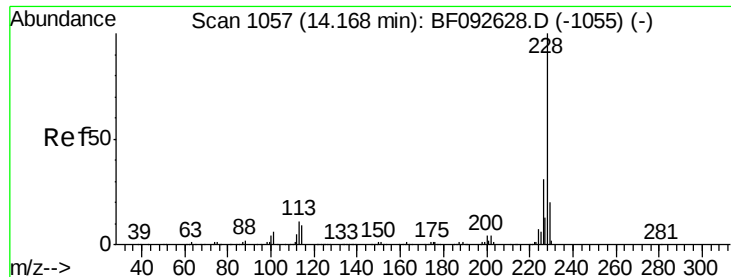


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#82

Chrysene

Concen: 4.41 ng

RT: 14.03 min Scan# 1045

Delta R.T. -0.01 min

Lab File: BF093164.D

Acq: 25 Feb 2017 00:26

Instrument :

BNA_F

ClientSampleId :

SRI-SB-3(8-10)20170221

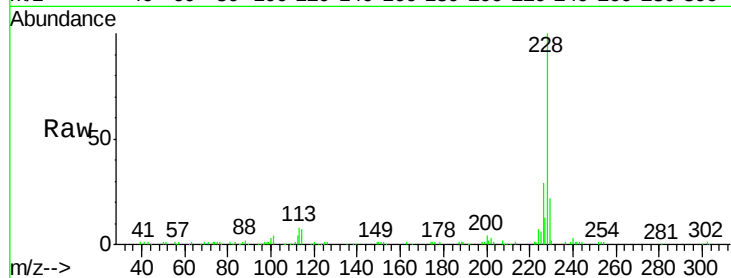
Tgt Ion:228 Resp: 110227

Ion Ratio Lower Upper

228 100

226 28.9 25.4 38.0

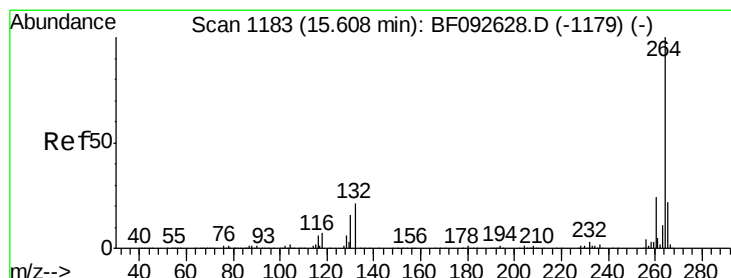
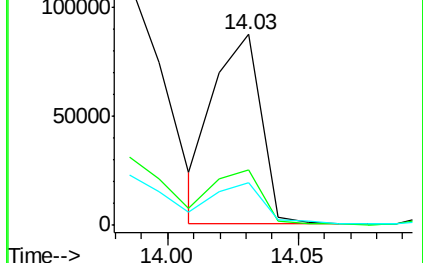
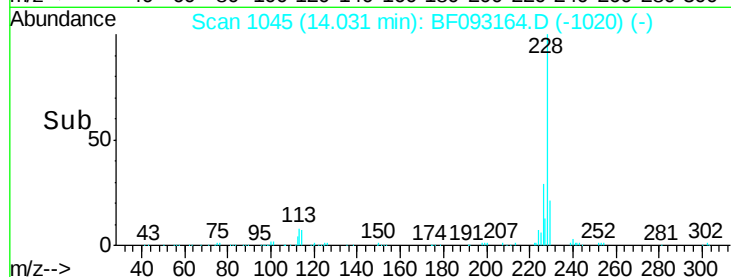
229 22.1 16.2 24.2



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



#86

Perylene-d12

Concen: 20.00 ng

RT: 15.43 min Scan# 1167

Delta R.T. -0.02 min

Lab File: BF093164.D

Acq: 25 Feb 2017 00:26

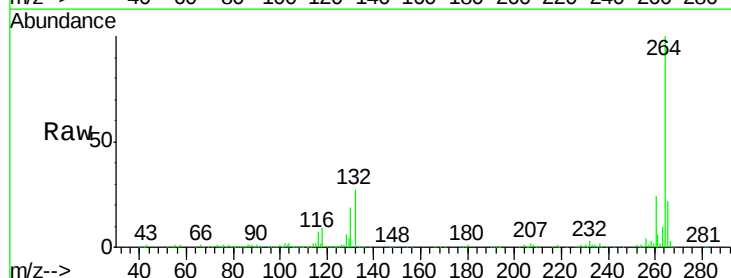
Tgt Ion:264 Resp: 300140

Ion Ratio Lower Upper

264 100

260 24.0 19.2 28.8

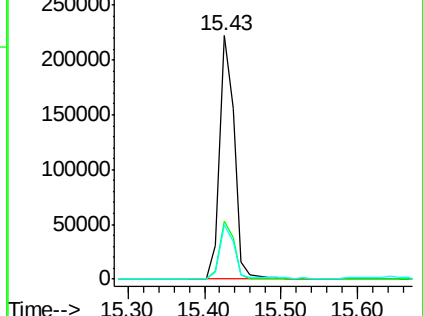
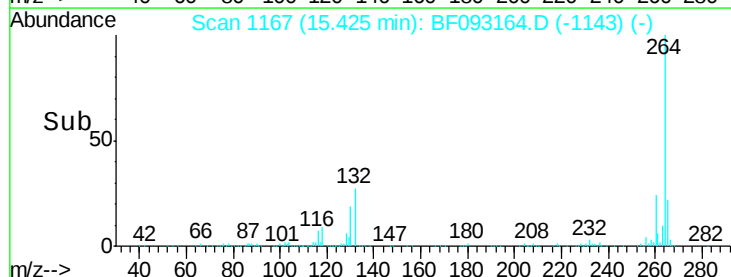
265 22.0 17.4 26.0

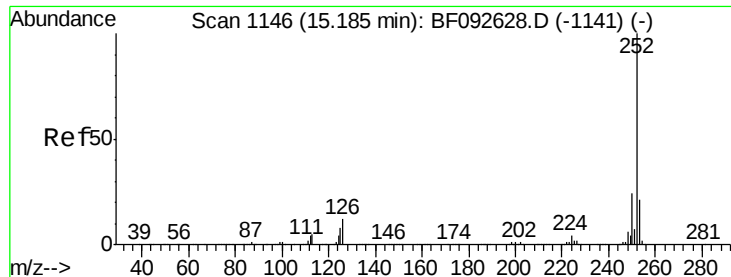


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E

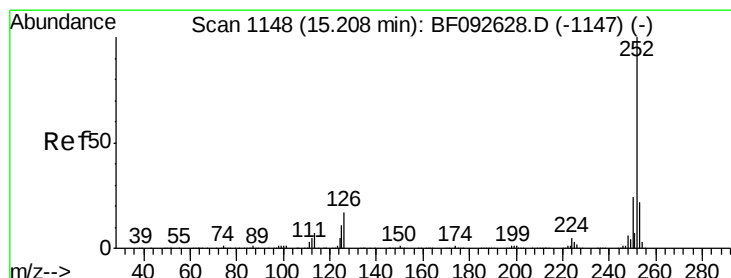
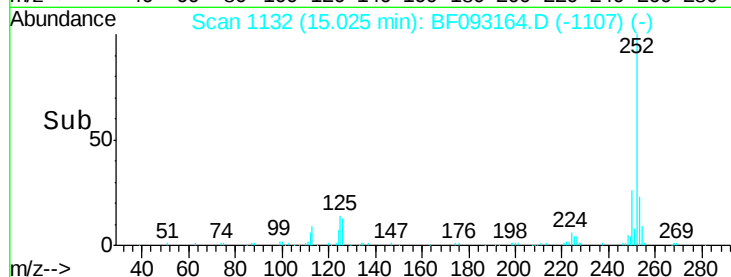
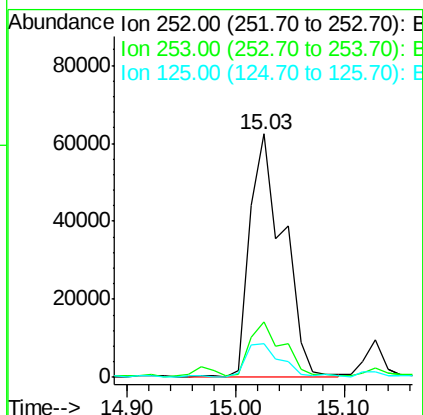
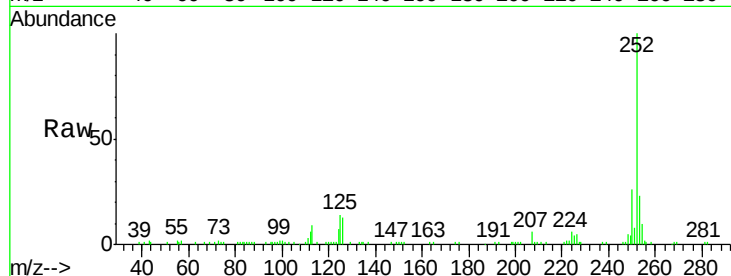




#87
Benzo(b)fluoranthene
Concen: 6.79 ng
RT: 15.03 min Scan# 1132
Delta R.T. -0.01 min
Lab File: BF093164.D
Acq: 25 Feb 2017 00:26

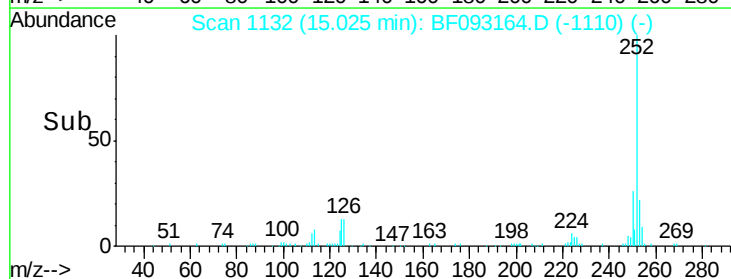
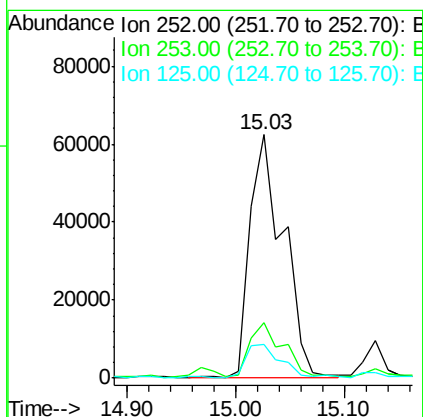
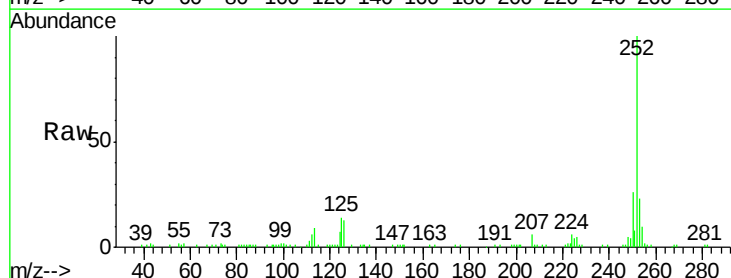
Instrument :
BNA_F
ClientSampleId :
SRI-SB-3(8-10)20170221

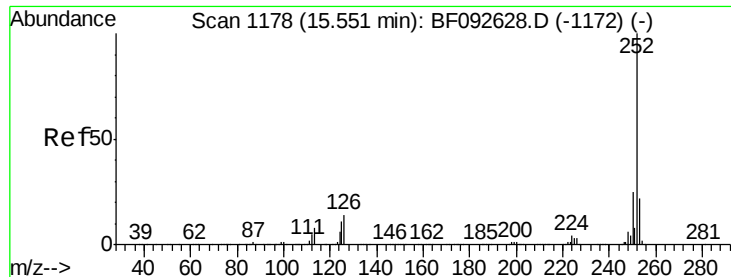
Tgt Ion:252 Resp: 134165
Ion Ratio Lower Upper
252 100
253 22.9 18.2 27.4
125 13.7 9.8 14.6



#88
Benzo(k)fluoranthene
Concen: 7.87 ng
RT: 15.03 min Scan# 1132
Delta R.T. -0.05 min
Lab File: BF093164.D
Acq: 25 Feb 2017 00:26

Tgt Ion:252 Resp: 134165
Ion Ratio Lower Upper
252 100
253 22.9 18.5 27.7
125 13.7 8.9 13.3#

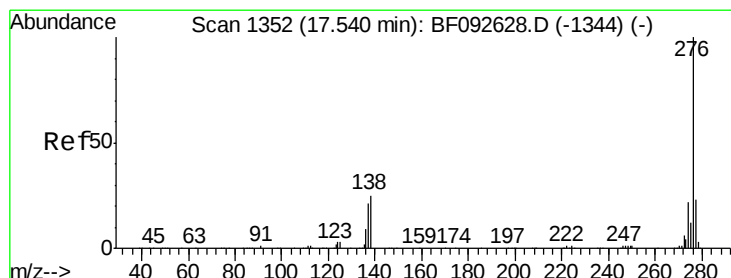
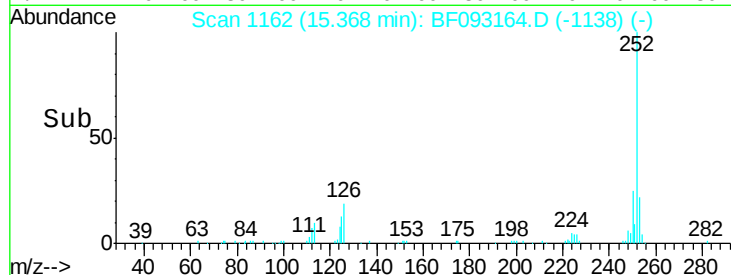
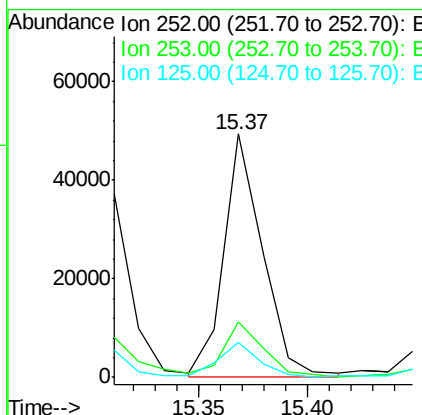
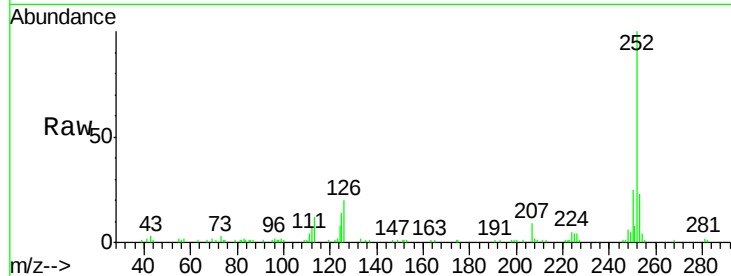




#89
Benzo(a)pyrene
Concen: 3.59 ng
RT: 15.37 min Scan# 1162
Delta R.T. -0.02 min
Lab File: BF093164.D
Acq: 25 Feb 2017 00:26

Instrument :
BNA_F
ClientSampleId :
SRI-SB-3(8-10)20170221

Tgt Ion: 252 Resp: 61422
Ion Ratio Lower Upper
252 100
253 23.0 18.2 27.2
125 14.1 10.0 15.0



#91
Benzo(g,h,i)perylene
Concen: 2.15 ng
RT: 17.25 min Scan# 1327
Delta R.T. -0.03 min
Lab File: BF093164.D
Acq: 25 Feb 2017 00:26

Tgt Ion: 276 Resp: 29984
Ion Ratio Lower Upper
276 100
277 21.2 19.2 28.8
138 26.1 16.0 24.0#

