

Data Path : Z:\HPCHEM1\BNA F\DATA\BF032417\
 Data File : BF093930.D
 Acq On : 25 Mar 2017 2:09
 Operator : SJ/MA
 Sample : I2367-01
 Misc :
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 E2-B4567-CONCRETE

Quant Time: Mar 25 04:06:34 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF032217.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Mar 23 02:02:22 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.96	152	166443	20.00	ng	-0.03
21) Naphthalene-d8	7.46	136	654072	20.00	ng	-0.03
38) Acenaphthene-d10	9.61	164	265169	20.00	ng	-0.03
63) Phenanthrene-d10	11.43	188	380705	20.00	ng	-0.03
75) Chrysene-d12	14.69	240	305074	20.00	ng	-0.03
86) Perylene-d12	16.32	264	248729	20.00	ng	-0.03

System Monitoring Compounds						
5) 2-Fluorophenol	4.49	112	717766	72.84	ng	-0.01
7) Phenol-d6	5.56	99	1136473	93.22	ng	-0.01
23) Nitrobenzene-d5	6.61	82	755401	65.91	ng	-0.03
41) 2,4,6-Tribromophenol	10.57	330	85881	40.99	ng	-0.04
44) 2-Fluorobiphenyl	8.79	172	1331468	76.59	ng	-0.03
78) Terphenyl-d14	13.41	244	794987	58.41	ng	-0.03

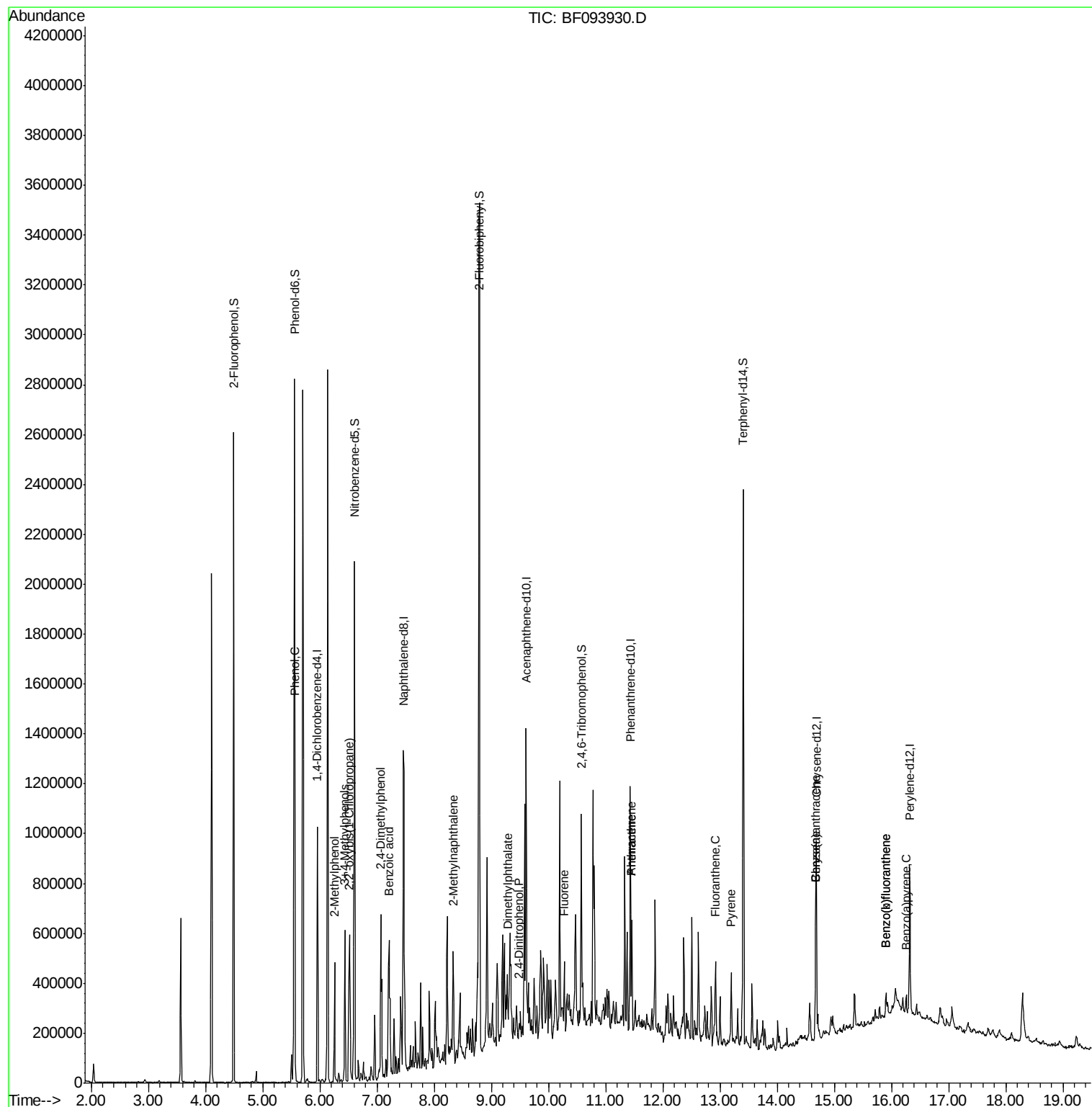
Target Compounds				Qvalue		
10) Phenol	5.57	94	76030	5.48	ng	86
16) 2,2'-oxybis(1-Chloropropan	6.52	45	34511	2.07	ng	# 1
17) 2-Methylphenol	6.26	107	87723	9.46	ng	96
20) 3+4-Methylphenols	6.44	107	159260	14.18	ng	# 63
27) 2,4-Dimethylphenol	7.07	122	185353	19.96	ng	97
32) Benzoic acid	7.21	122	150120	24.28	ng	# 27
37) 2-Methylnaphthalene	8.33	142	114705	5.47	ng	96
49) Dimethylphthalate	9.28	163	106820	5.67	ng	99
53) 2,4-Dinitrophenol	9.49	184	264	4.77	ng	# 56
57) Fluorene	10.28	166	44722	2.44	ng	# 99
70) Phenanthrene	11.46	178	192676	9.10	ng	98
71) Anthracene	11.46	178	192676	8.84	ng	99
74) Fluoranthene	12.92	202	146008	6.73	ng	96
77) Pyrene	13.20	202	121520	5.49	ng	97
80) Benzo(a)anthracene	14.67	228	51604	2.90	ng	95
82) Chrysene	14.67	228	51604	3.13	ng	98
87) Benzo(b)fluoranthene	15.90	252	64900	4.26	ng	# 92
88) Benzo(k)fluoranthene	15.90	252	64900	4.35	ng	95
89) Benzo(a)pyrene	16.26	252	31515	2.24	ng	# 92

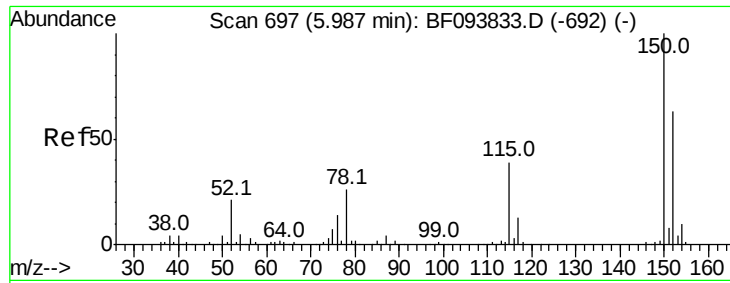
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 5.96 min Scan# 692

Delta R.T. -0.03 min

Lab File: BF093930.D

Acq: 25 Mar 2017 2:09

Instrument :

BNA_F

ClientSampleId :

E2-B4567-CONCRETE

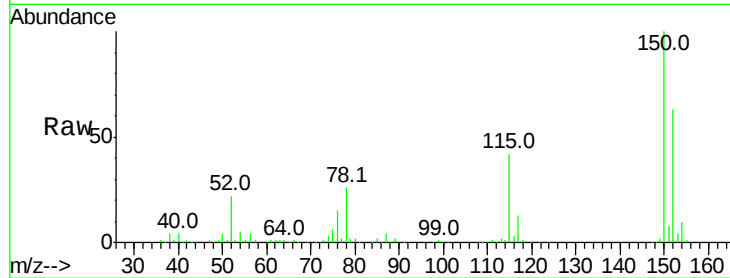
Tot Ion:152 Resp: 166443

Ion Ratio Lower Upper

152 100

150 158.6 126.2 189.2

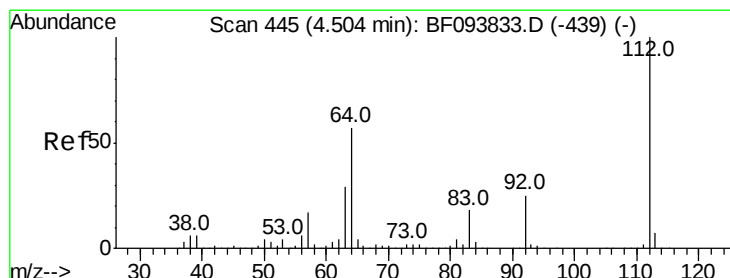
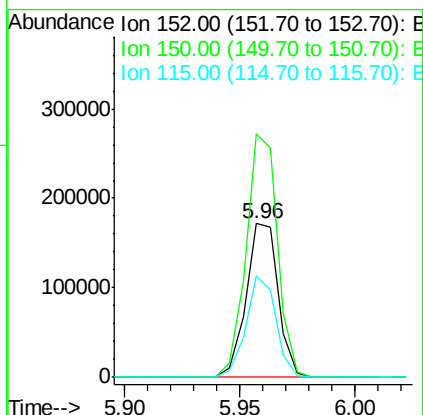
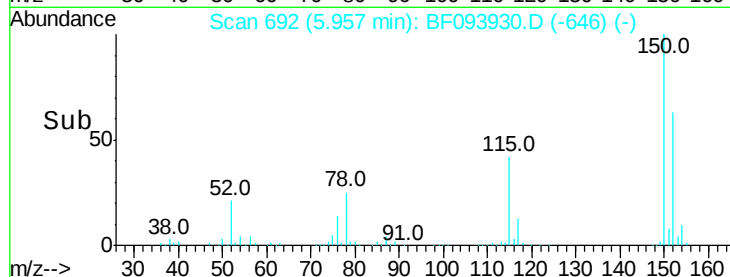
115 66.1 52.2 78.2



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol

Concen: 72.84 ng

RT: 4.49 min Scan# 443

Delta R.T. -0.01 min

Lab File: BF093930.D

Acq: 25 Mar 2017 2:09

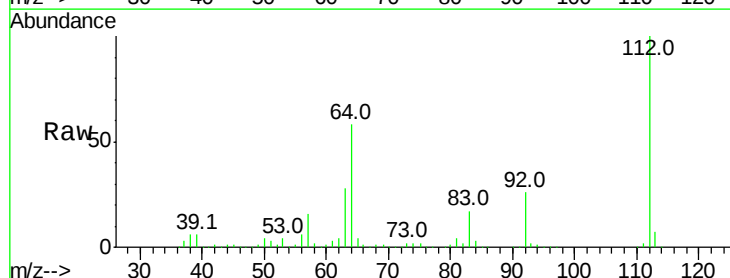
Tgt Ion:112 Resp: 717766

Ion Ratio Lower Upper

112 100

64 57.7 46.0 69.0

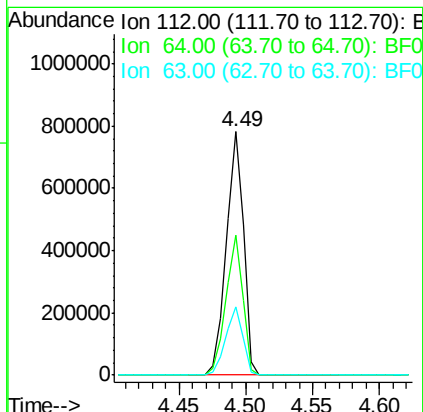
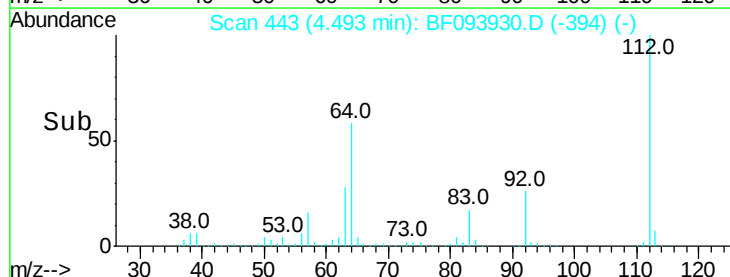
63 28.3 23.4 35.0

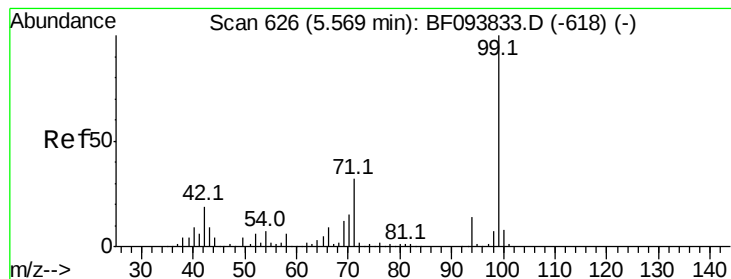


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 93.22 ng

RT: 5.56 min Scan# 624

Delta R.T. -0.01 min

Lab File: BF093930.D

Acq: 25 Mar 2017 2:09

Instrument :

BNA_F

ClientSampleId :

E2-B4567-CONCRETE

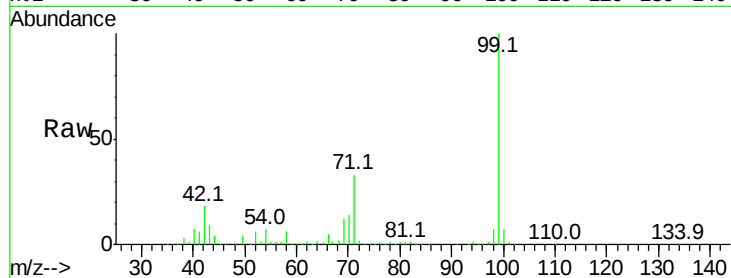
Tot Ion: 99 Resp: 1136473

Ion Ratio Lower Upper

99 100

42 17.7 13.5 20.3

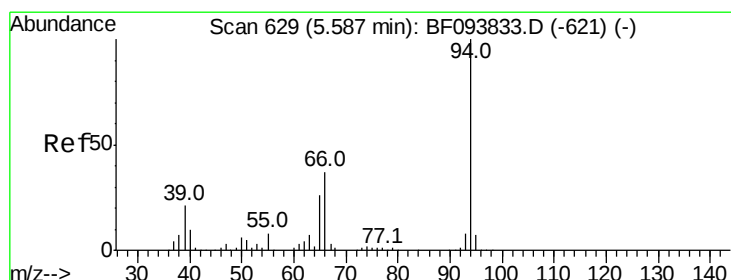
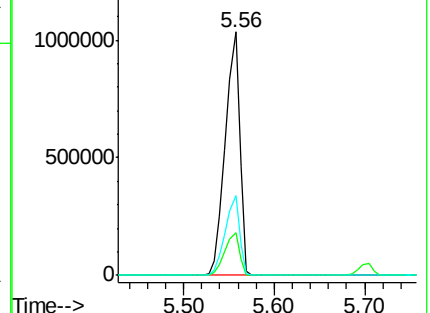
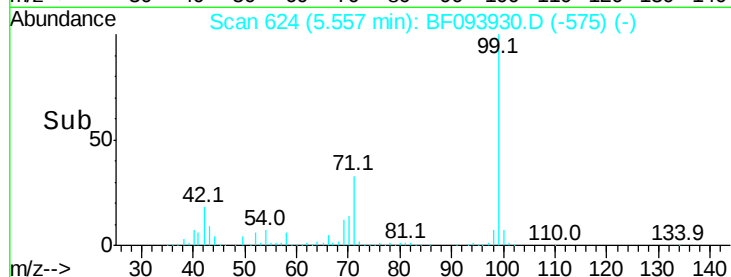
71 32.8 24.5 36.7



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



#10

Phenol

Concen: 5.48 ng

RT: 5.57 min Scan# 626

Delta R.T. -0.02 min

Lab File: BF093930.D

Acq: 25 Mar 2017 2:09

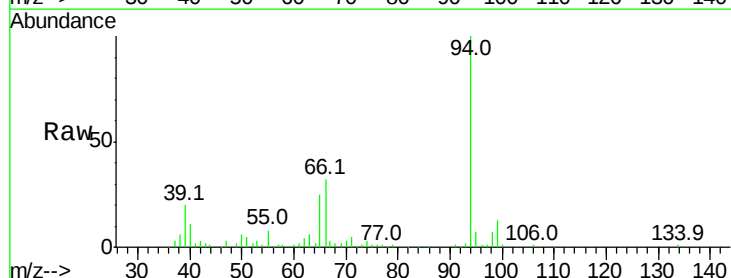
Tgt Ion: 94 Resp: 76030

Ion Ratio Lower Upper

94 100

65 25.5 9.9 49.9

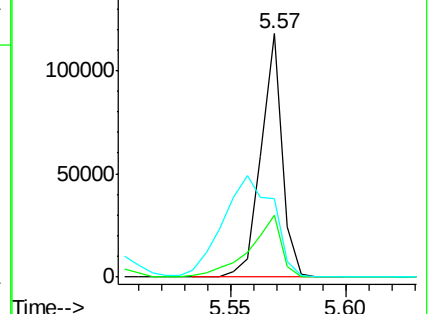
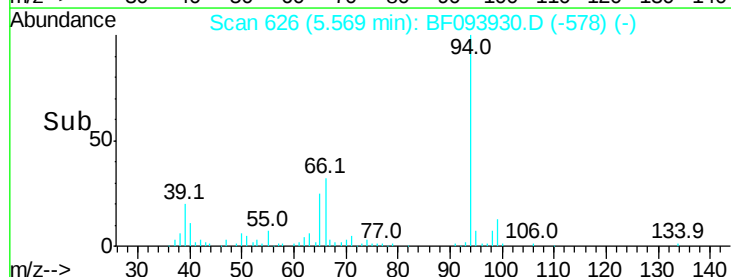
66 32.1 23.1 63.1

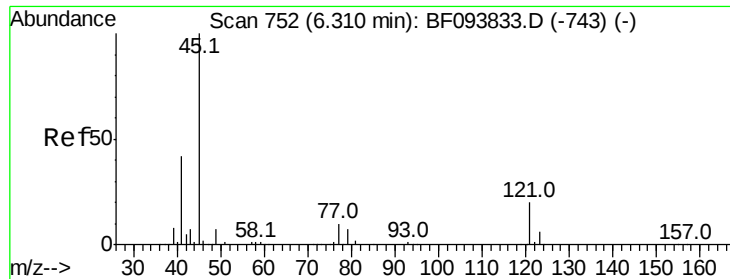


Abundance Ion 94.00 (93.70 to 94.70): BF0

Ion 65.00 (64.70 to 65.70): BF0

Ion 66.00 (65.70 to 66.70): BF0

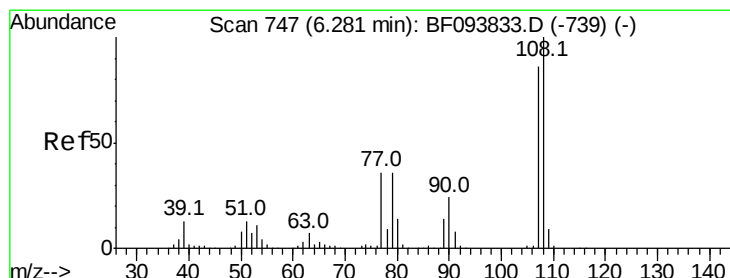
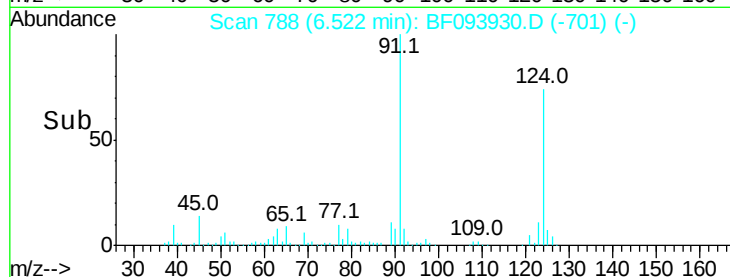
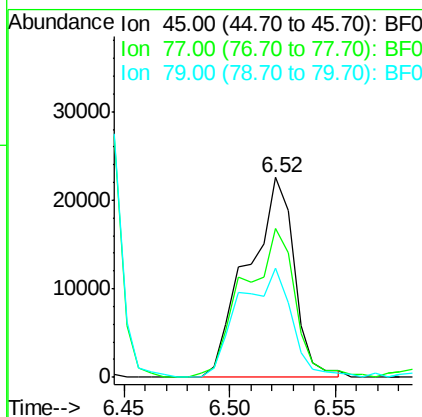
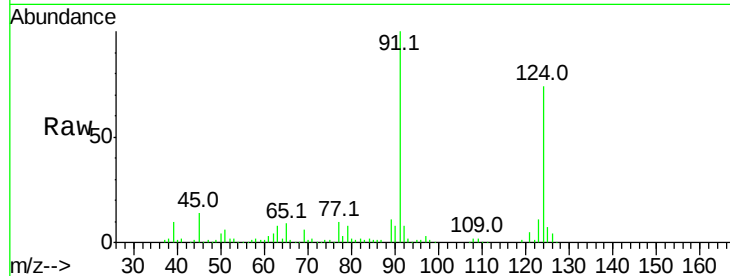




#16
2,2'-oxvbis(1-Chloropropane)
Concen: 2.07 ng
RT: 6.52 min Scan# 788
Delta R.T. 0.21 min
Lab File: BF093930.D
Acq: 25 Mar 2017 2:09

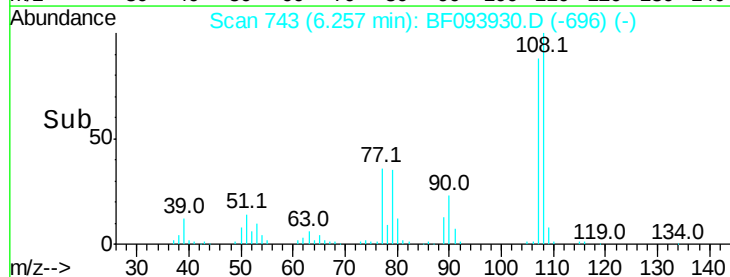
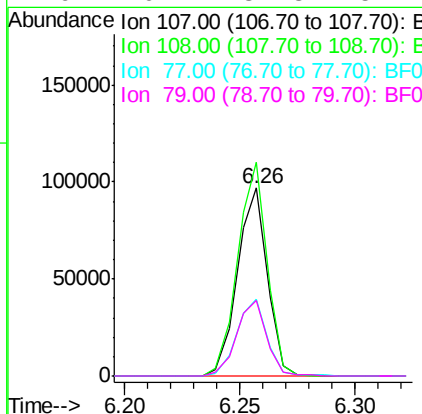
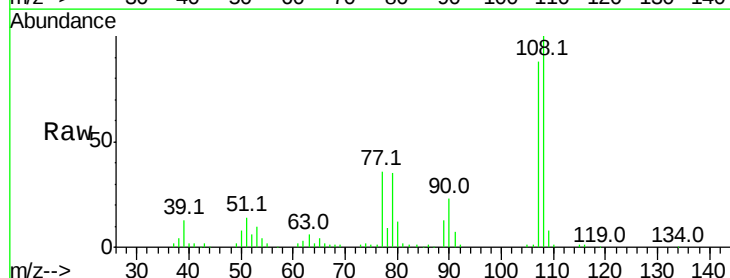
Instrument :
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E2-B4567-CONCRETE

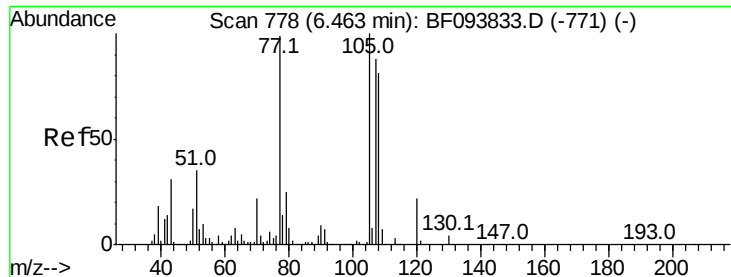
Tot Ion: 45 Resp: 34511
Ion Ratio Lower Upper
45 100
77 74.8 0.0 33.2#
79 54.5 0.0 30.0#



#17
2-Methylphenol
Concen: 9.46 ng
RT: 6.26 min Scan# 743
Delta R.T. -0.02 min
Lab File: BF093930.D
Acq: 25 Mar 2017 2:09

Tgt Ion: 107 Resp: 87723
Ion Ratio Lower Upper
107 100
108 113.7 93.4 140.0
77 40.8 35.8 53.6
79 40.2 34.8 52.2





#20

3+4-Methylphenols

Concen: 14.18 ng

RT: 6.44 min Scan# 774

Delta R.T. -0.02 min

Lab File: BF093930.D

Acq: 25 Mar 2017 2:09

Instrument :

BNA_F

ClientSampleId :

E2-B4567-CONCRETE

Tot Ion:107 Resp: 159260

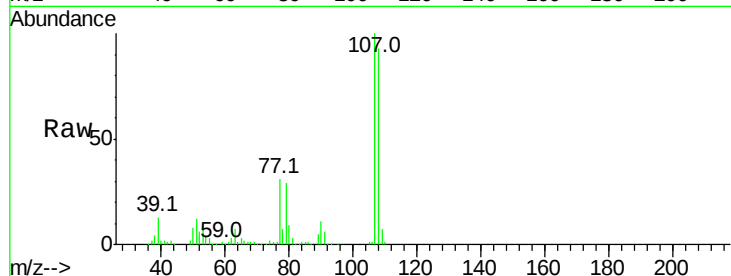
Ion Ratio Lower Upper

107 100

108 93.2 71.0 111.0

77 31.2 90.5 130.5#

79 29.2 8.4 48.4

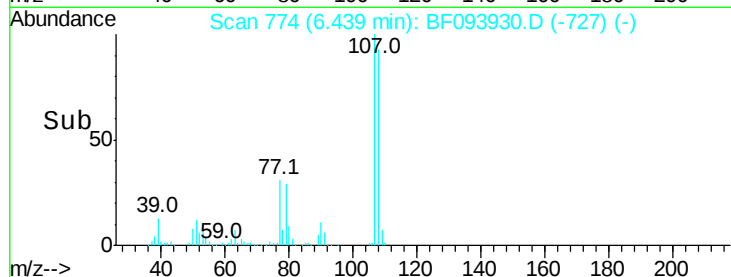


Abundance Ion 107.00 (106.70 to 107.70): E

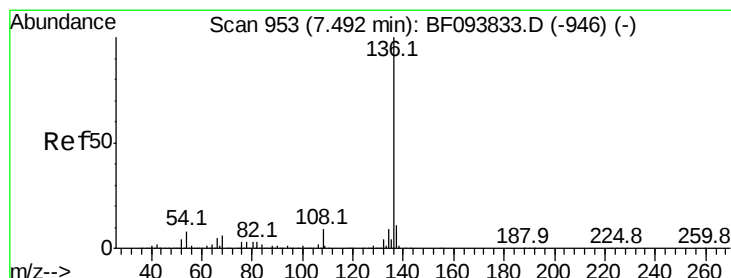
Ion 108.00 (107.70 to 108.70): E

Ion 77.00 (76.70 to 77.70): BF0

Ion 79.00 (78.70 to 79.70): BF0



Time-->



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 7.46 min Scan# 948

Delta R.T. -0.03 min

Lab File: BF093930.D

Acq: 25 Mar 2017 2:09

Tgt Ion:136 Resp: 654072

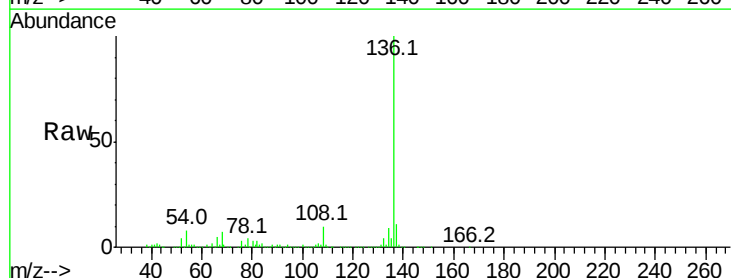
Ion Ratio Lower Upper

136 100

137 11.4 8.5 12.7

54 8.1 4.9 7.3#

68 6.7 4.1 6.1#

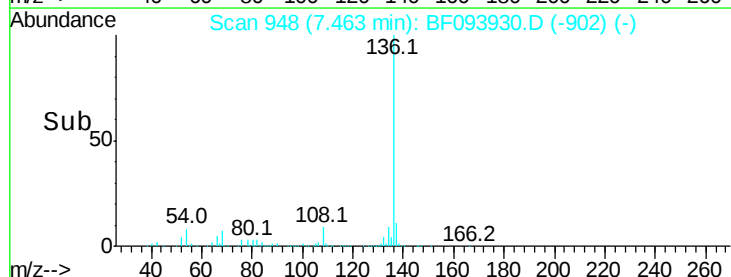


Abundance Ion 136.00 (135.70 to 136.70): E

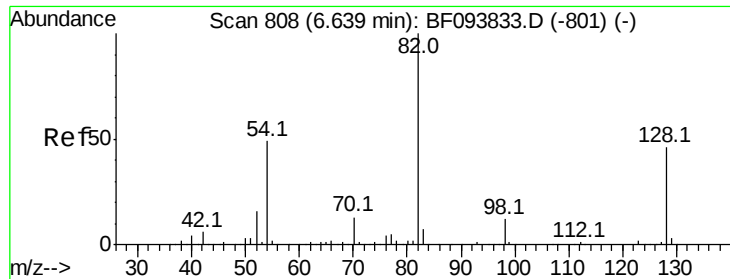
Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BF0

Ion 68.00 (67.70 to 68.70): BF0



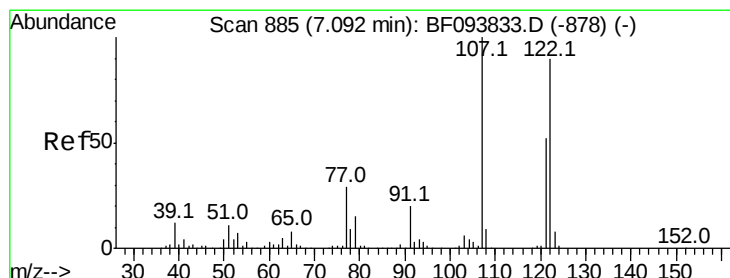
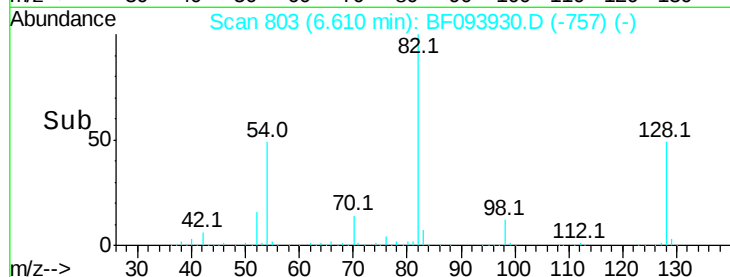
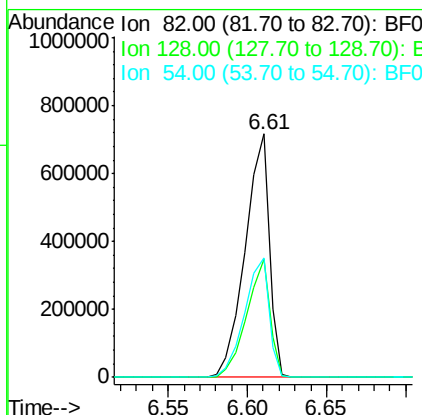
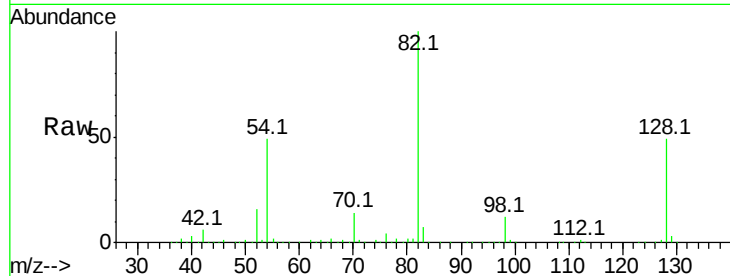
Time-->



#23
Nitrobenzene-d5
Concen: 65.91 ng
RT: 6.61 min Scan# 803
Delta R.T. -0.03 min
Lab File: BF093930.D
Acq: 25 Mar 2017 2:09

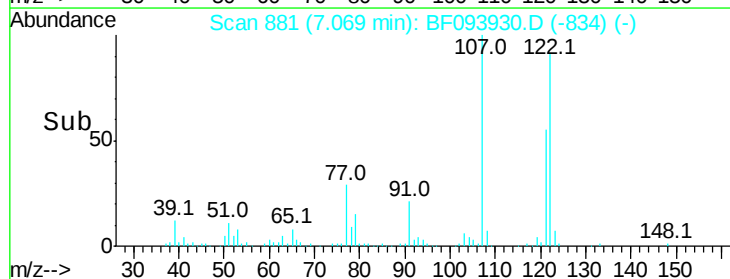
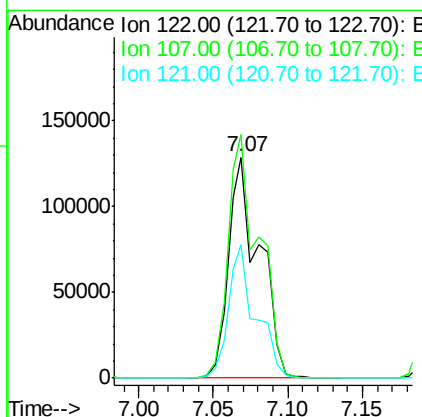
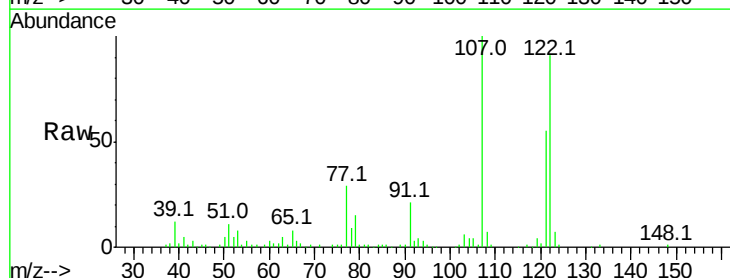
Instrument :
BNA_F
ClientSampleId :
E2-B4567-CONCRETE

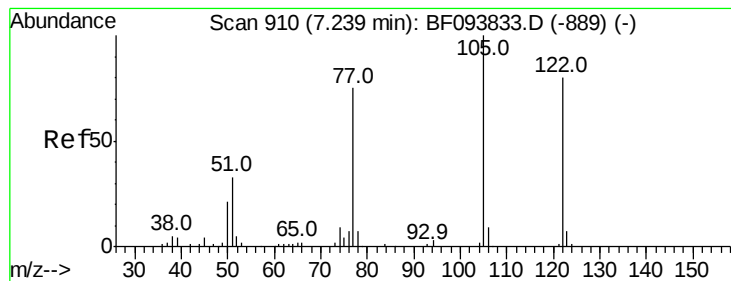
Tot Ion	82	Resp	755401
Ion Ratio	100		
Lower	34.0		
Upper	51.0		
54	48.9	42.2	63.2



#27
2,4-Dimethylphenol
Concen: 19.96 ng
RT: 7.07 min Scan# 881
Delta R.T. -0.02 min
Lab File: BF093930.D
Acq: 25 Mar 2017 2:09

Tgt Ion	122	Resp	185353
Ion Ratio	100		
Lower	89.2		
Upper	133.8		
107	110.2	45.2	67.8
121	60.2		





#32

Benzoic acid

Concen: 24.28 ng

RT: 7.21 min Scan# 905

Delta R.T. -0.03 min

Lab File: BF093930.D

Acq: 25 Mar 2017 2:09

Instrument :

BNA_F

ClientSampleId :

E2-B4567-CONCRETE

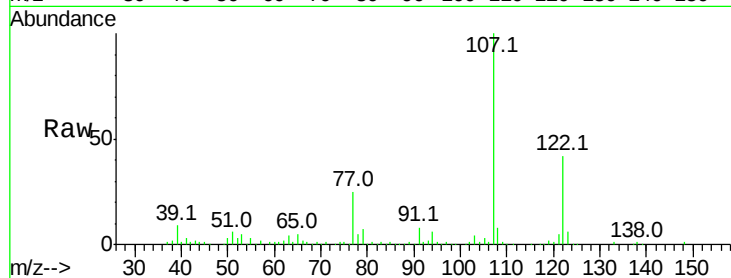
Tot Ion:122 Resp: 150120

Ion Ratio Lower Upper

122 100

105 7.8 103.3 143.3#

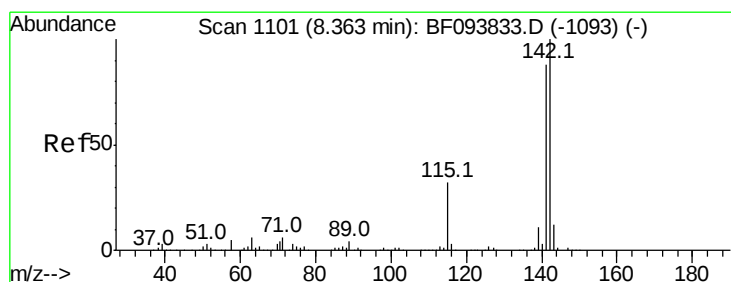
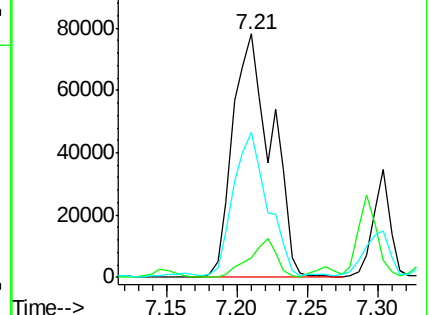
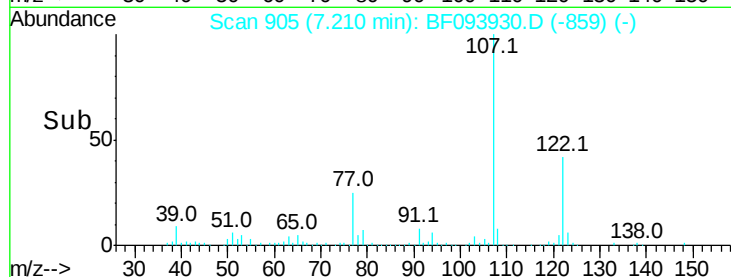
77 59.4 73.7 113.7#



Abundance Ion 122.00 (121.70 to 122.70): E

Ion 105.00 (104.70 to 105.70): E

Ion 77.00 (76.70 to 77.70): BF0



#37

2-Methylnaphthalene

Concen: 5.47 ng

RT: 8.33 min Scan# 1096

Delta R.T. -0.03 min

Lab File: BF093930.D

Acq: 25 Mar 2017 2:09

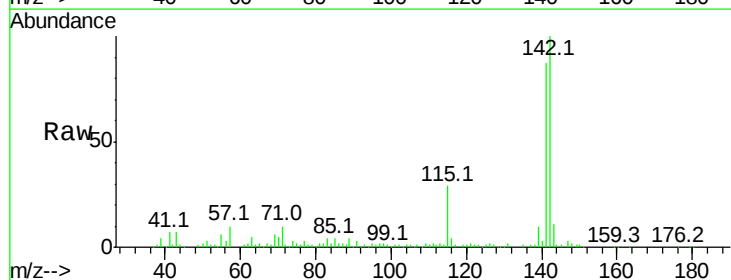
Tgt Ion:142 Resp: 114705

Ion Ratio Lower Upper

142 100

141 86.5 71.3 106.9

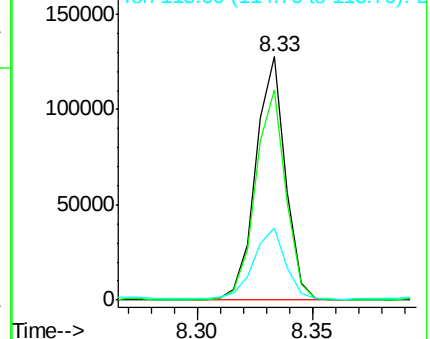
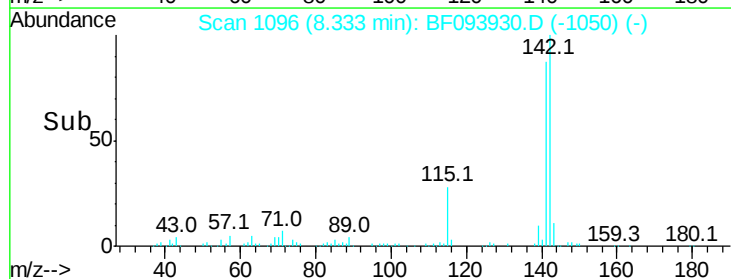
115 29.4 27.1 40.7

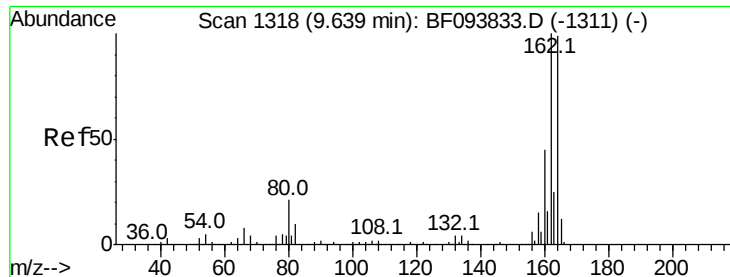


Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 115.00 (114.70 to 115.70): E

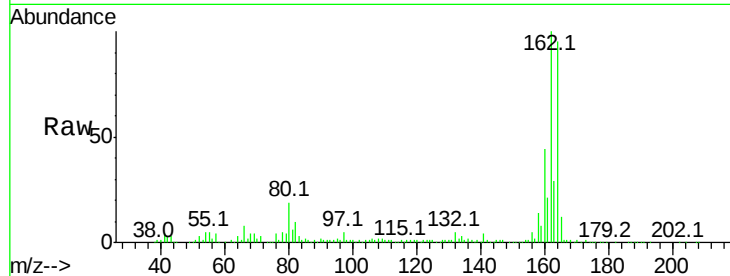




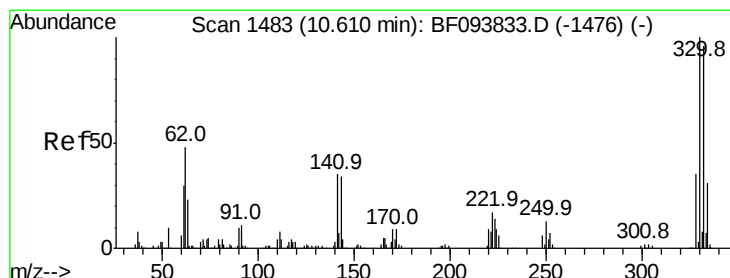
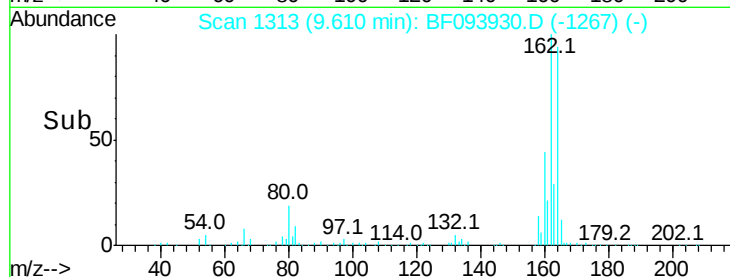
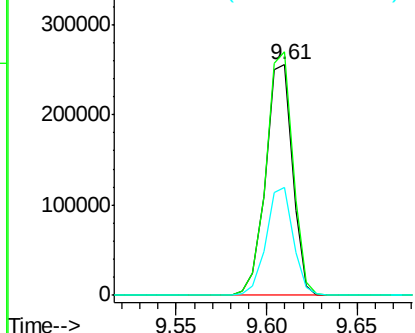
#38
 Acenaphthene-d10
 Concen: 20.00 ng
 RT: 9.61 min Scan# 1313
 Delta R.T. -0.03 min
 Lab File: BF093930.D
 Acq: 25 Mar 2017 2:09

Instrument :
 BNA_F
 ClientSampleId :
 E2-B4567-CONCRETE

Tot Ion:164 Resp: 265169
 Ion Ratio Lower Upper
 164 100
 162 105.7 82.6 123.8
 160 46.9 36.2 54.2

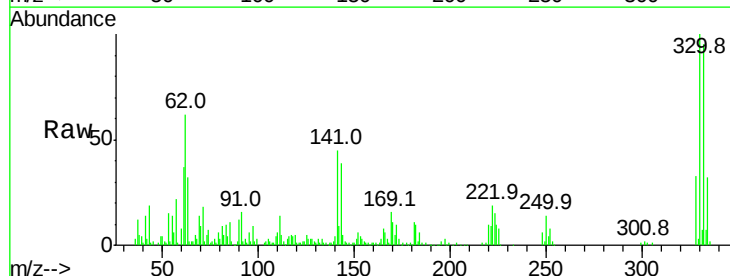


Abundance Ion 164.00 (163.70 to 164.70): E
 Ion 162.00 (161.70 to 162.70): E
 Ion 160.00 (159.70 to 160.70): E

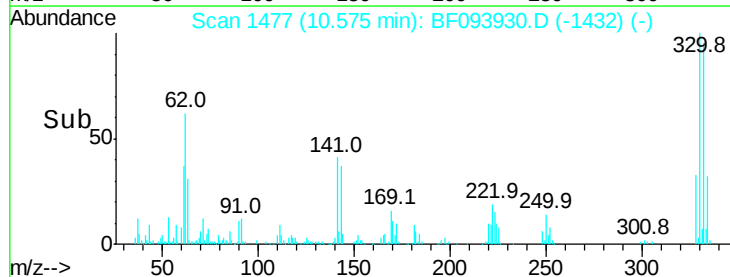
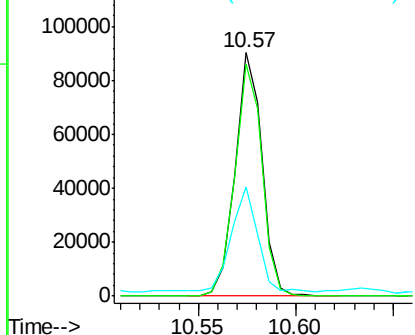


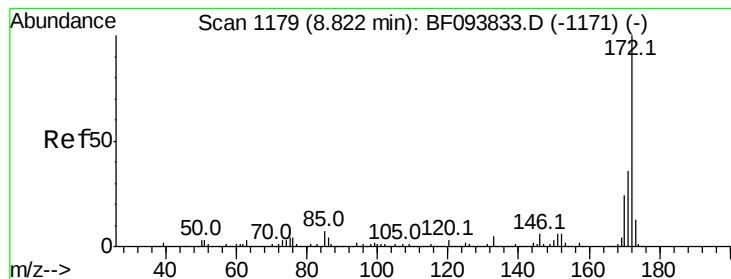
#41
 2,4,6-Tribromophenol
 Concen: 40.99 ng
 RT: 10.57 min Scan# 1477
 Delta R.T. -0.04 min
 Lab File: BF093930.D
 Acq: 25 Mar 2017 2:09

Tgt Ion:330 Resp: 85881
 Ion Ratio Lower Upper
 330 100
 332 95.8 76.6 115.0
 141 42.5 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: 76.59 ng

RT: 8.79 min Scan# 1174

Delta R.T. -0.03 min

Lab File: BF093930.D

Acq: 25 Mar 2017 2:09

Instrument :

BNA_F

ClientSampleId :

E2-B4567-CONCRETE

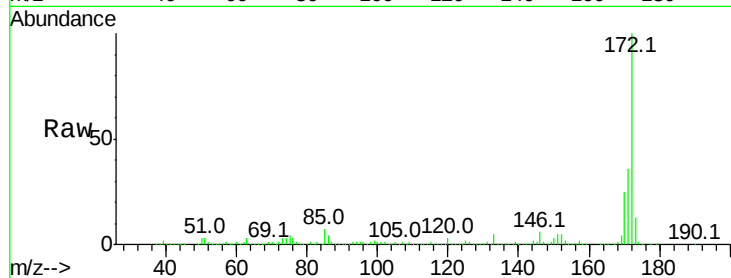
Tot Ion:172 Resp: 1331468

Ion Ratio Lower Upper

172 100

171 36.3 29.6 44.4

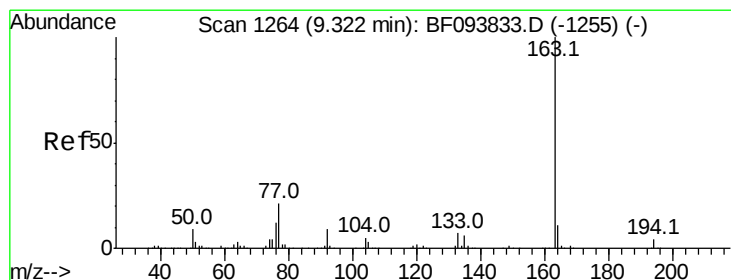
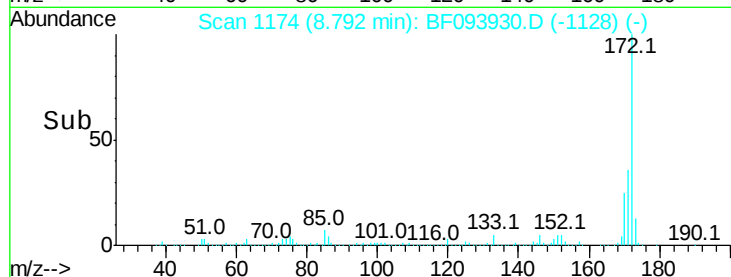
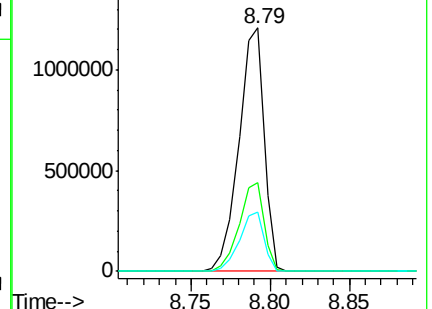
170 24.5 19.8 29.8



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



#49

Dimethylphthalate

Concen: 5.67 ng

RT: 9.28 min Scan# 1257

Delta R.T. -0.04 min

Lab File: BF093930.D

Acq: 25 Mar 2017 2:09

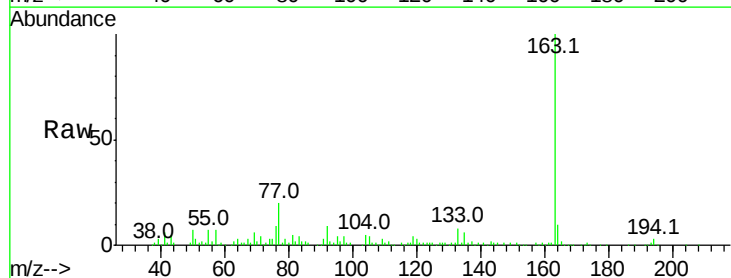
Tgt Ion:163 Resp: 106820

Ion Ratio Lower Upper

163 100

194 3.5 2.6 4.0

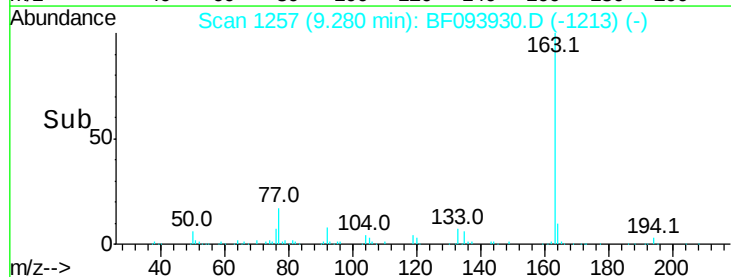
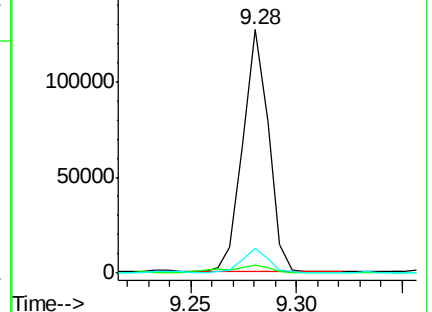
164 9.9 8.4 12.6

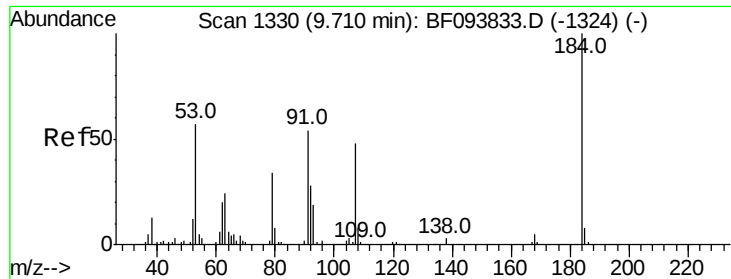


Abundance Ion 163.00 (162.70 to 163.70): E

Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E

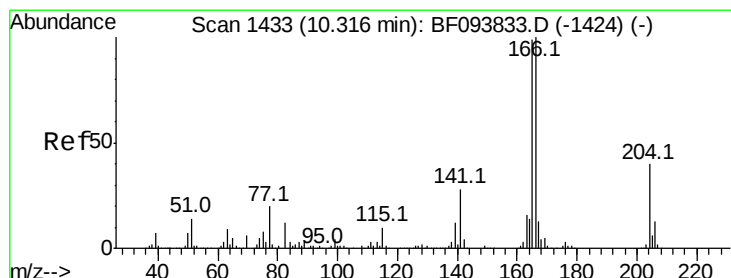
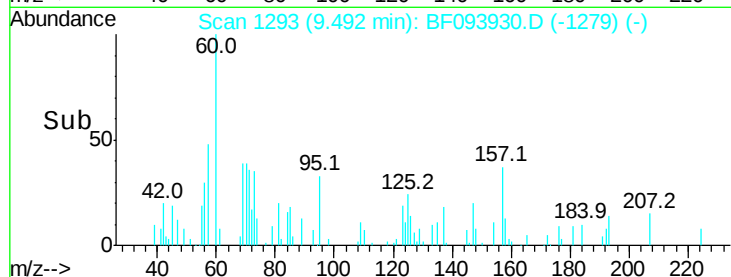
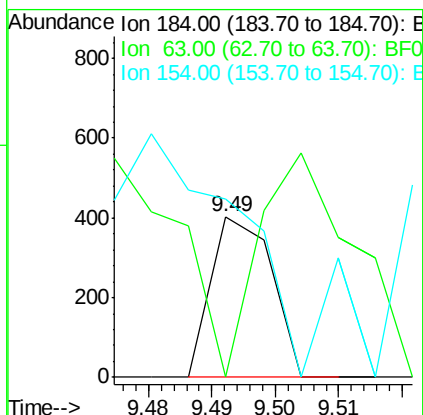
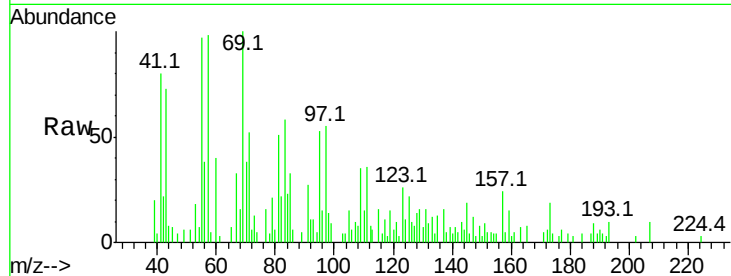




#53
2,4-Dinitrophenol
Concen: 4.77 ng
RT: 9.49 min Scan# 1293
Delta R.T. -0.22 min
Lab File: BF093930.D
Acq: 25 Mar 2017 2:09

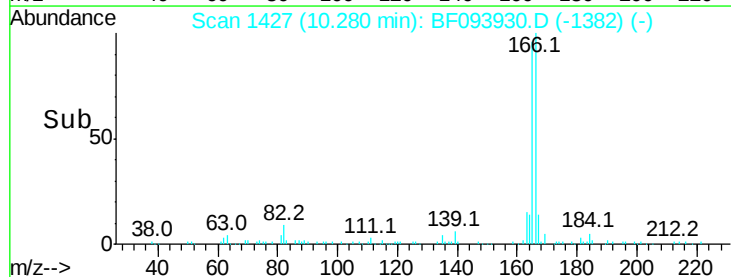
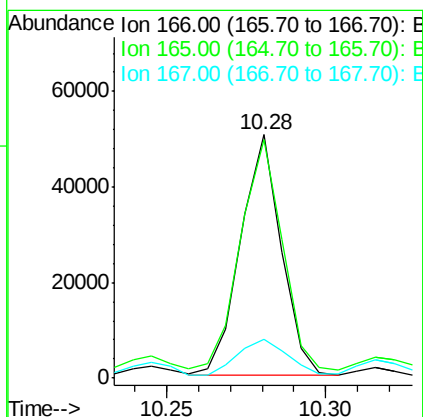
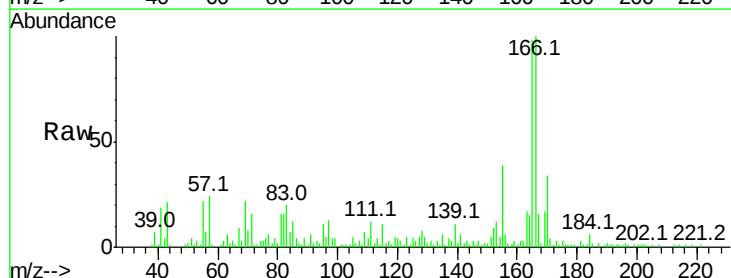
Instrument :
BNA_F
ClientSampleId :
E2-B4567-CONCRETE

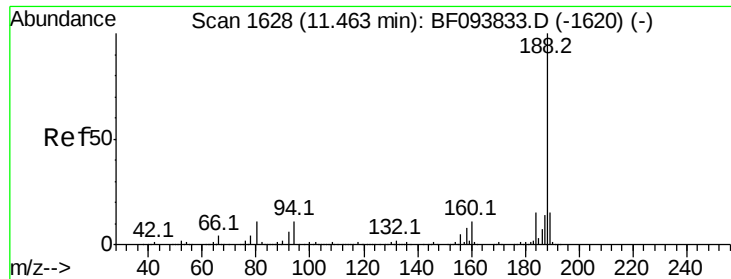
Tot Ion:184 Resp: 264
Ion Ratio Lower Upper
184 100
63 0.0 62.7 94.1#
154 110.7 81.1 121.7



#57
Fluorene
Concen: 2.44 ng
RT: 10.28 min Scan# 1427
Delta R.T. -0.04 min
Lab File: BF093930.D
Acq: 25 Mar 2017 2:09

Tgt Ion:166 Resp: 44722
Ion Ratio Lower Upper
166 100
165 98.1 78.8 118.2
167 16.0 10.6 16.0#

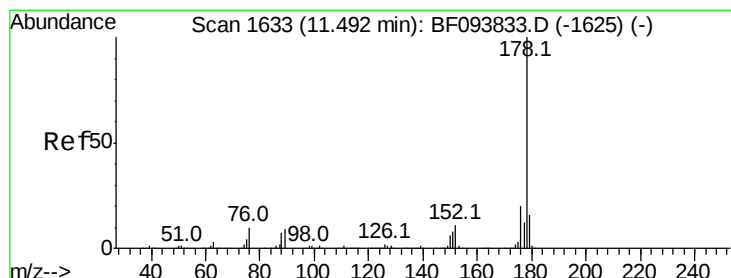
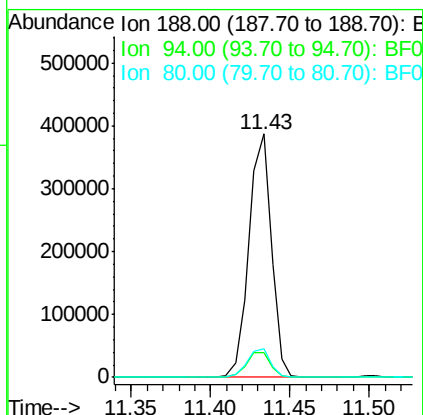
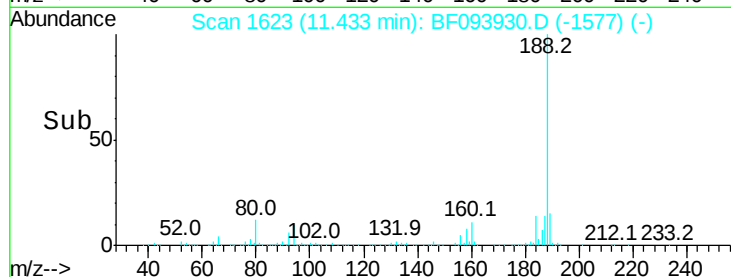
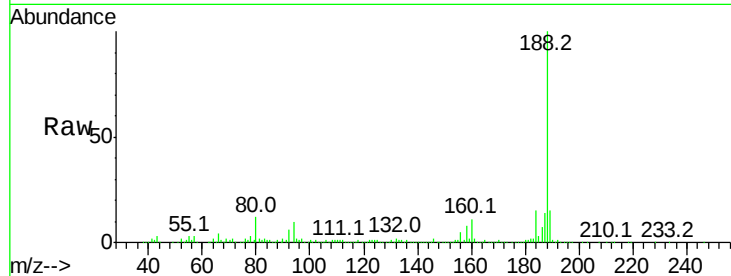




#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 11.43 min Scan# 1623
Delta R.T. -0.03 min
Lab File: BF093930.D
Acq: 25 Mar 2017 2:09

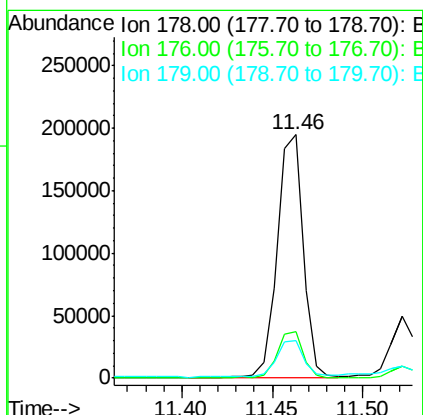
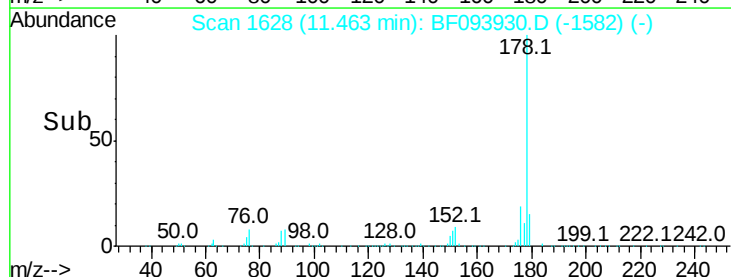
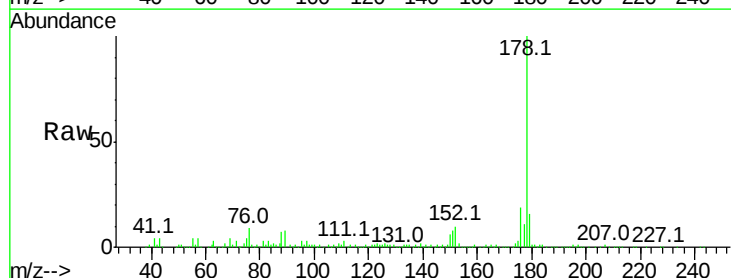
Instrument :
BNA_F
ClientSampleId :
E2-B4567-CONCRETE

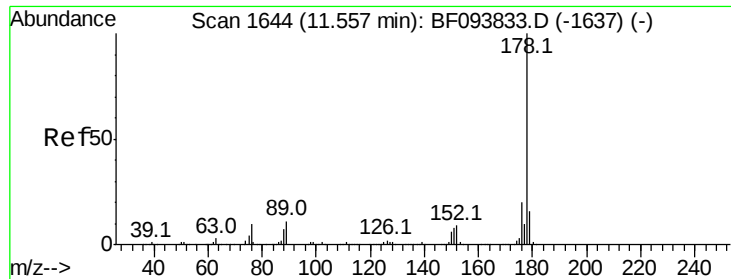
Tot Ion:188 Resp: 380705
Ion Ratio Lower Upper
188 100
94 10.3 9.4 14.2
80 11.7 10.2 15.2



#70
Phenanthrene
Concen: 9.10 ng
RT: 11.46 min Scan# 1628
Delta R.T. -0.03 min
Lab File: BF093930.D
Acq: 25 Mar 2017 2:09

Tgt Ion:178 Resp: 192676
Ion Ratio Lower Upper
178 100
176 19.1 16.2 24.4
179 15.7 12.6 19.0

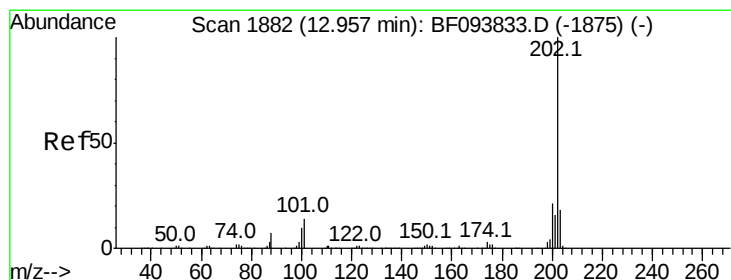
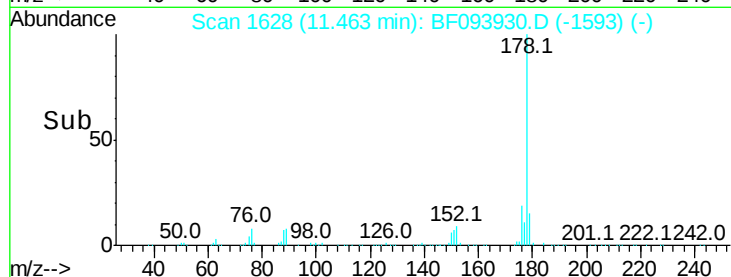
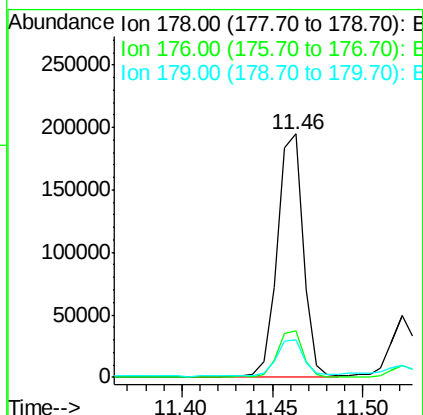
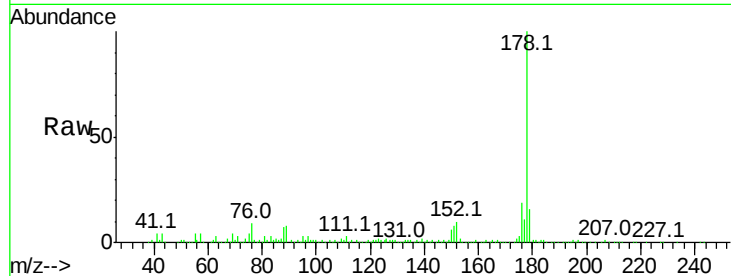




#71
 Anthracene
 Concen: 8.84 ng
 RT: 11.46 min Scan# 1628
 Delta R.T. -0.09 min
 Lab File: BF093930.D
 Acq: 25 Mar 2017 2:09

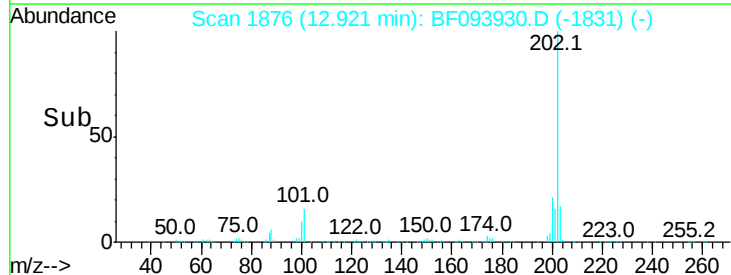
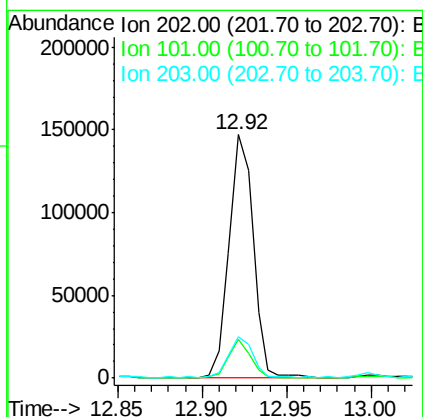
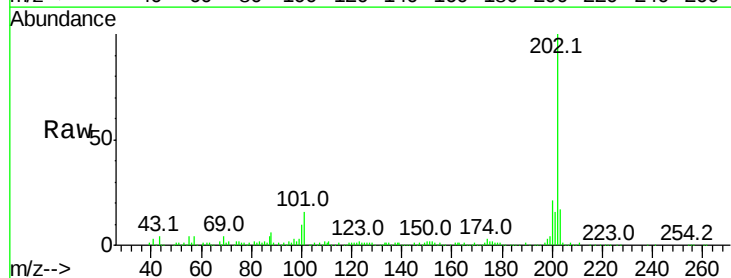
Instrument :
 BNA_F
 ClientSampleId :
 E2-B4567-CONCRETE

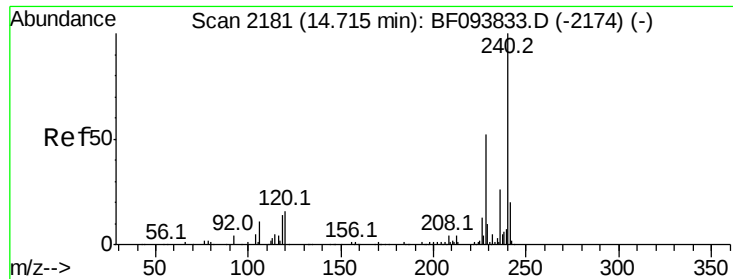
Tot Ion:178 Resp: 192676
 Ion Ratio Lower Upper
 178 100
 176 19.1 15.8 23.8
 179 15.7 12.7 19.1



#74
 Fluoranthene
 Concen: 6.73 ng
 RT: 12.92 min Scan# 1876
 Delta R.T. -0.04 min
 Lab File: BF093930.D
 Acq: 25 Mar 2017 2:09

Tgt Ion:202 Resp: 146008
 Ion Ratio Lower Upper
 202 100
 101 15.8 0.0 33.2
 203 17.2 0.0 38.1





#75

Chrysene-d12

Concen: 20.00 ng

RT: 14.69 min Scan# 2176

Delta R.T. -0.03 min

Lab File: BF093930.D

Acq: 25 Mar 2017 2:09

Instrument :

BNA_F

ClientSampleId :

E2-B4567-CONCRETE

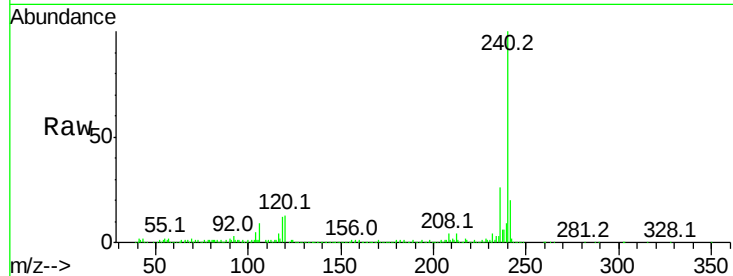
Tot Ion:240 Resp: 305074

Ion Ratio Lower Upper

240 100

120 13.1 5.8 8.8#

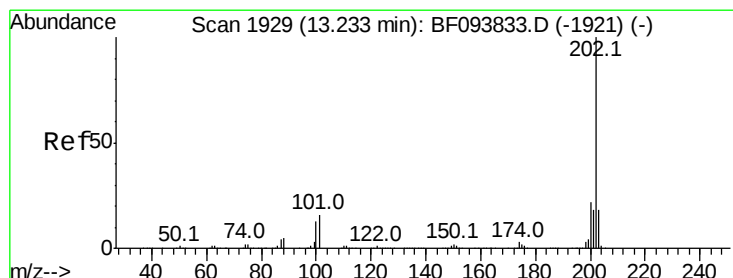
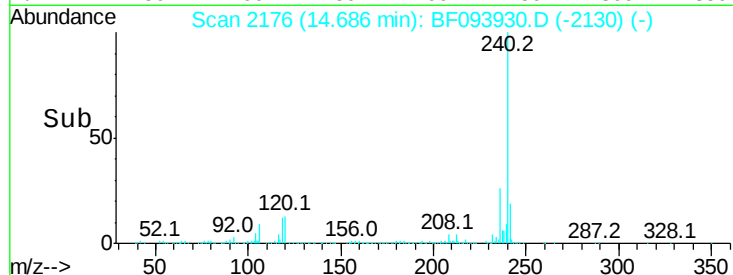
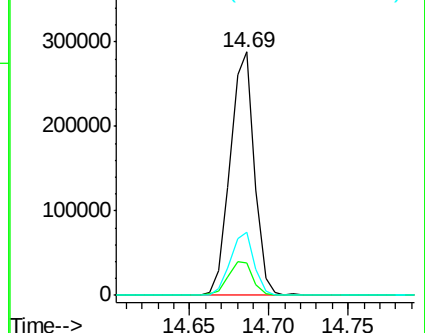
236 25.9 20.5 30.7



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: 5.49 ng

RT: 13.20 min Scan# 1923

Delta R.T. -0.04 min

Lab File: BF093930.D

Acq: 25 Mar 2017 2:09

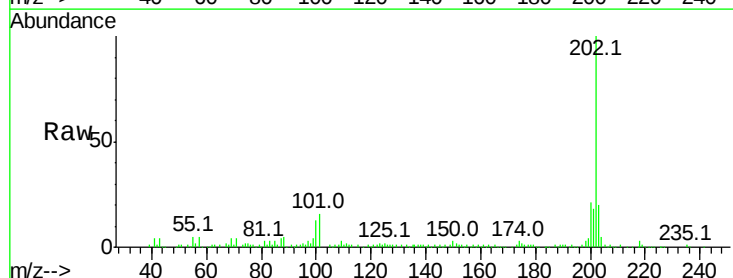
Tgt Ion:202 Resp: 121520

Ion Ratio Lower Upper

202 100

200 21.1 17.6 26.4

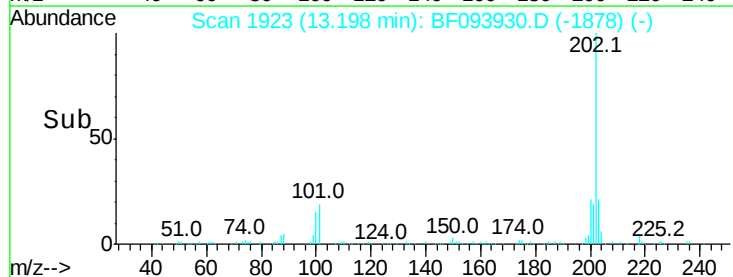
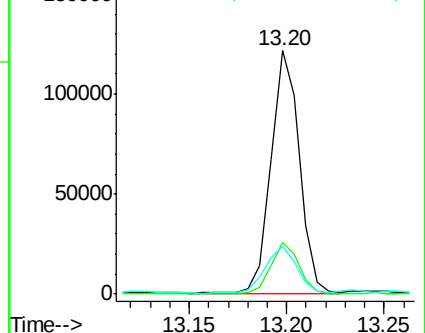
203 19.6 14.4 21.6

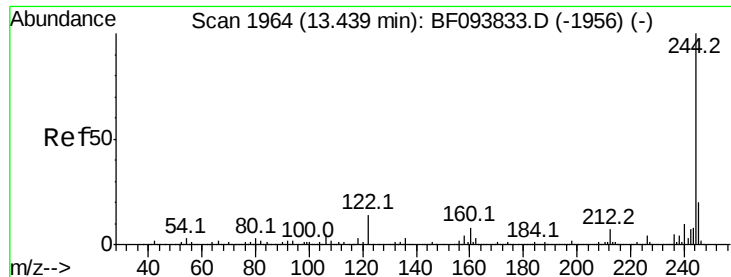


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#78

Terphenyl-d14

Concen: 58.41 ng

RT: 13.41 min Scan# 1959

Delta R.T. -0.03 min

Lab File: BF093930.D

Acq: 25 Mar 2017 2:09

Instrument :

BNA_F

ClientSampleId :

E2-B4567-CONCRETE

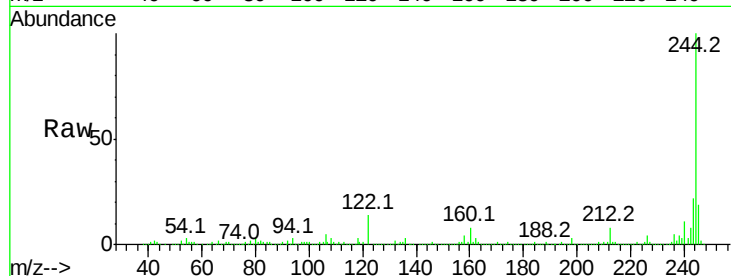
Tot Ion:244 Resp: 794987

Ion Ratio Lower Upper

244 100

212 7.5 6.0 9.0

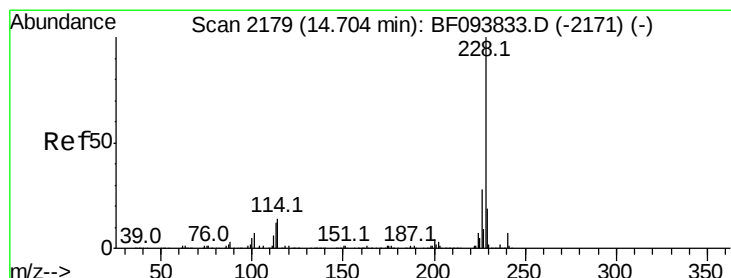
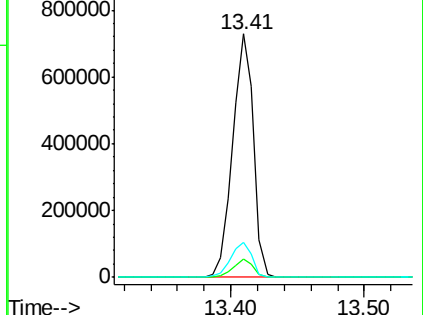
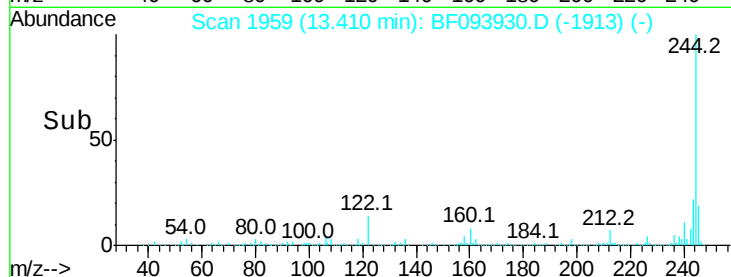
122 14.1 10.3 15.5



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: 2.90 ng

RT: 14.67 min Scan# 2173

Delta R.T. -0.04 min

Lab File: BF093930.D

Acq: 25 Mar 2017 2:09

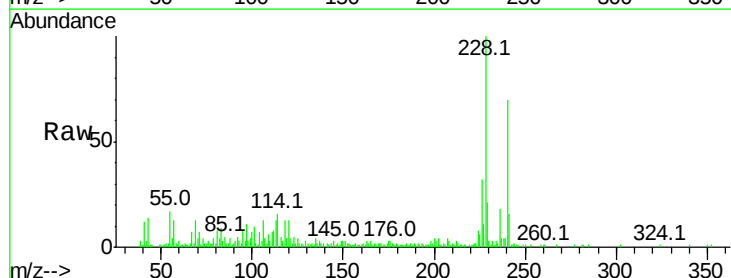
Tgt Ion:228 Resp: 51604

Ion Ratio Lower Upper

228 100

226 32.1 22.6 33.8

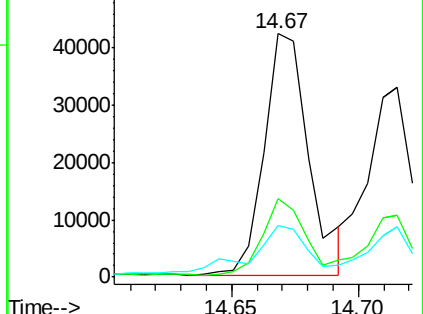
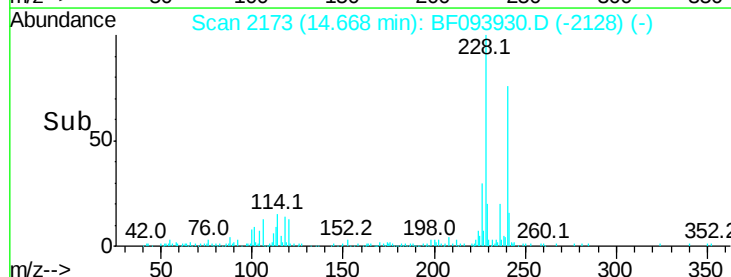
229 21.1 16.3 24.5

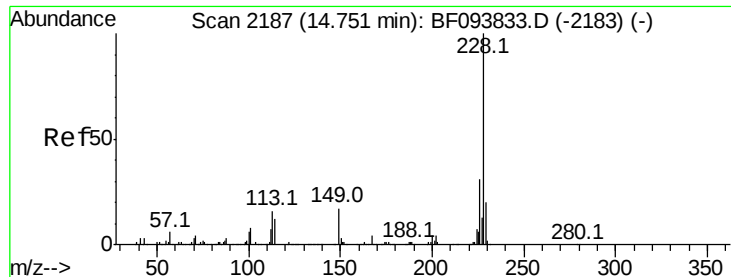


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#82

Chrysene

Concen: 3.13 ng

RT: 14.67 min Scan# 2173

Delta R.T. -0.08 min

Lab File: BF093930.D

Acq: 25 Mar 2017 2:09

Instrument :

BNA_F

ClientSampleId :

E2-B4567-CONCRETE

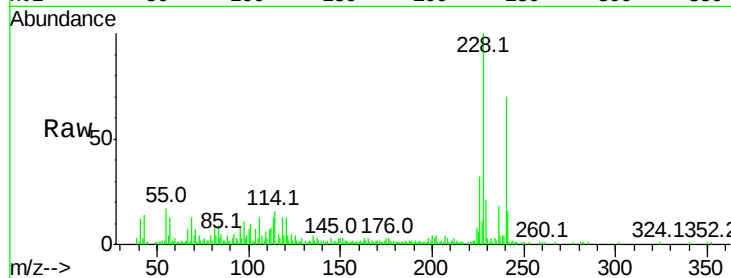
Tot Ion:228 Resp: 51604

Ion Ratio Lower Upper

228 100

226 32.1 24.9 37.3

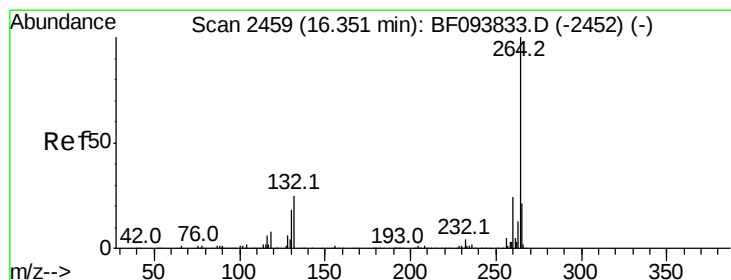
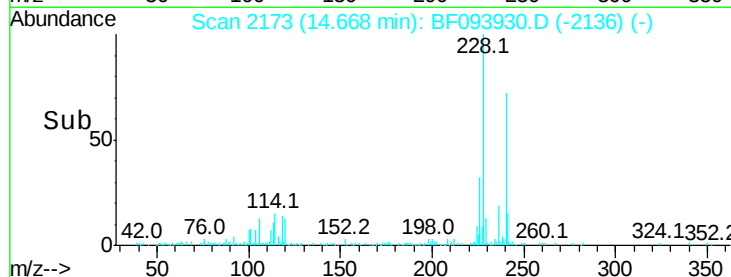
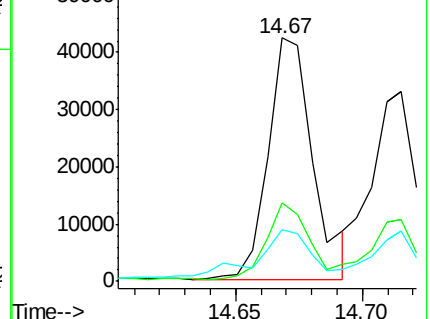
229 21.1 15.8 23.6



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: 16.32 min Scan# 2454

Delta R.T. -0.03 min

Lab File: BF093930.D

Acq: 25 Mar 2017 2:09

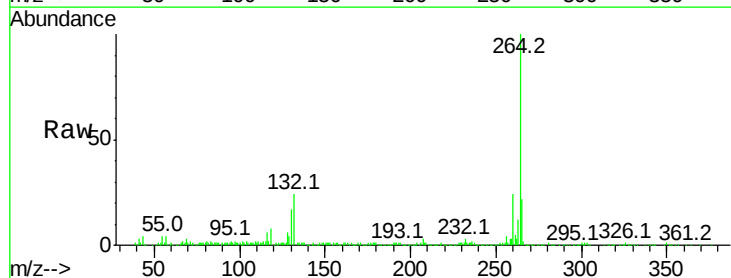
Tgt Ion:264 Resp: 248729

Ion Ratio Lower Upper

264 100

260 23.8 19.5 29.3

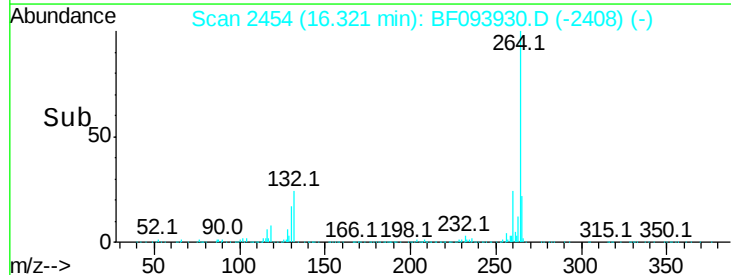
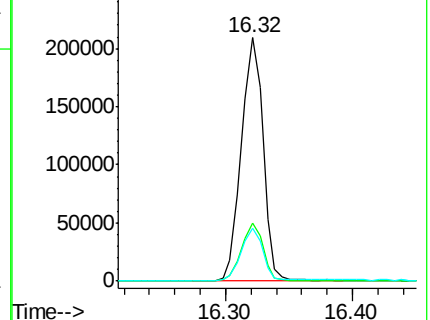
265 21.8 17.2 25.8

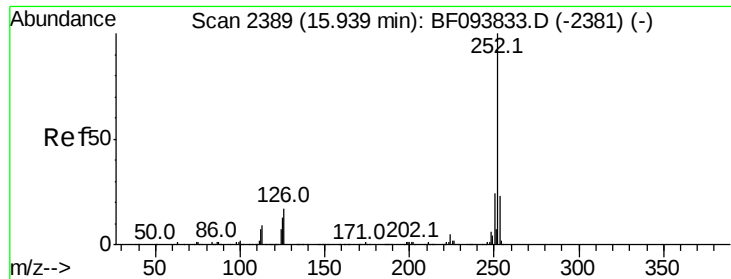


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E





#87

Benzo(b)fluoranthene

Concen: 4.26 ng

RT: 15.90 min Scan# 2383

Delta R.T. -0.04 min

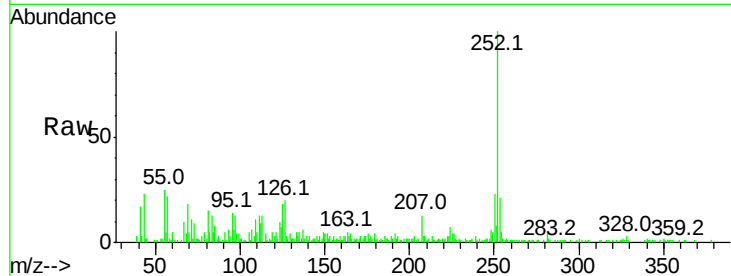
Lab File: BF093930.D

Acq: 25 Mar 2017 2:09

Instrument :
BNA_F
ClientSampleId :
E2-B4567-CONCRETE

Tot Ion:252 Resp: 64900

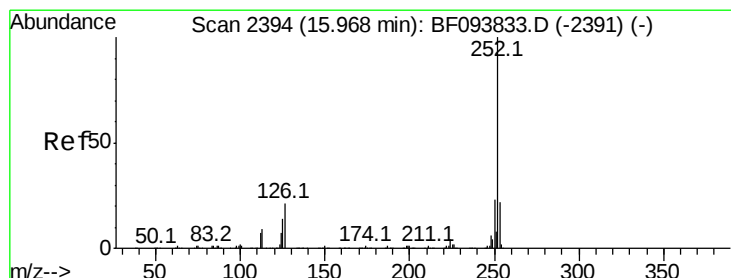
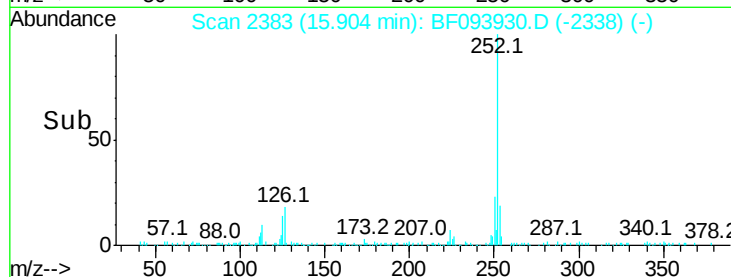
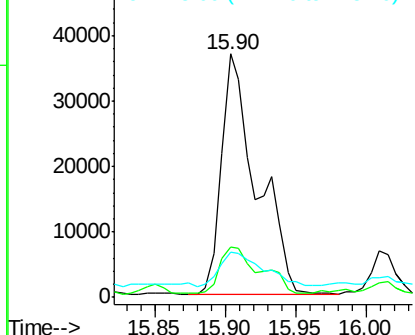
Ion	Ratio	Lower	Upper
252	100		
253	20.8	18.1	27.1
125	18.5	9.8	14.8#



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: 4.35 ng

RT: 15.90 min Scan# 2383

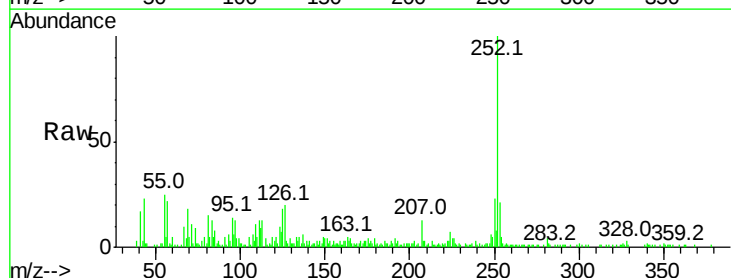
Delta R.T. -0.06 min

Lab File: BF093930.D

Acq: 25 Mar 2017 2:09

Tgt Ion:252 Resp: 64900

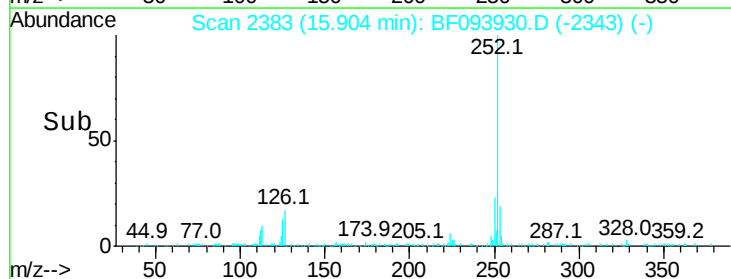
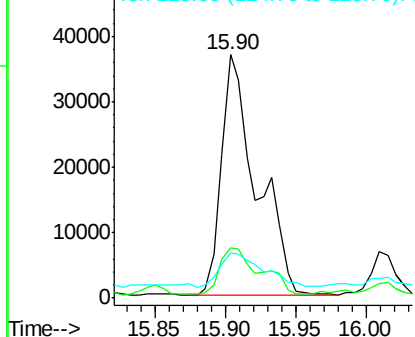
Ion	Ratio	Lower	Upper
252	100		
253	20.8	18.4	27.6
125	18.5	13.1	19.7

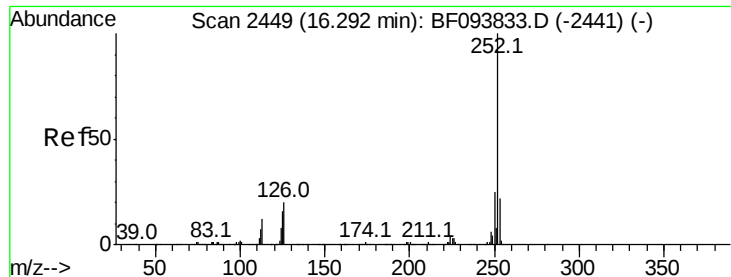


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#89

Benzo(a)pyrene

Concen: 2.24 ng

RT: 16.26 min Scan# 2443

Delta R.T. -0.04 min

Lab File: BF093930.D

Acq: 25 Mar 2017 2:09

Instrument :

BNA_F

ClientSampleId :

E2-B4567-CONCRETE

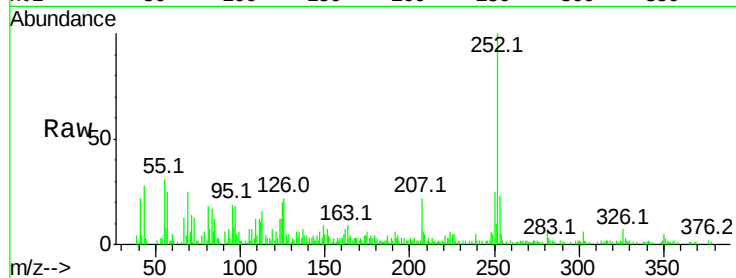
Tot Ion:252 Resp: 31515

Ion Ratio Lower Upper

252 100

253 23.4 17.5 26.3

125 20.1 11.0 16.4#



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

