

Data Path : Z:\HPCHEM1\BNA F\DATA\BF032917\
 Data File : BF094047.D
 Acq On : 30 Mar 2017 6:18
 Operator : SJ/MA
 Sample : I2431-03
 Misc :
 ALS Vial : 29 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 E2-S13-SSW

Quant Time: Mar 30 06:46:30 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF032217.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Mar 27 16:10:49 2017
 Response via : Initial Calibration

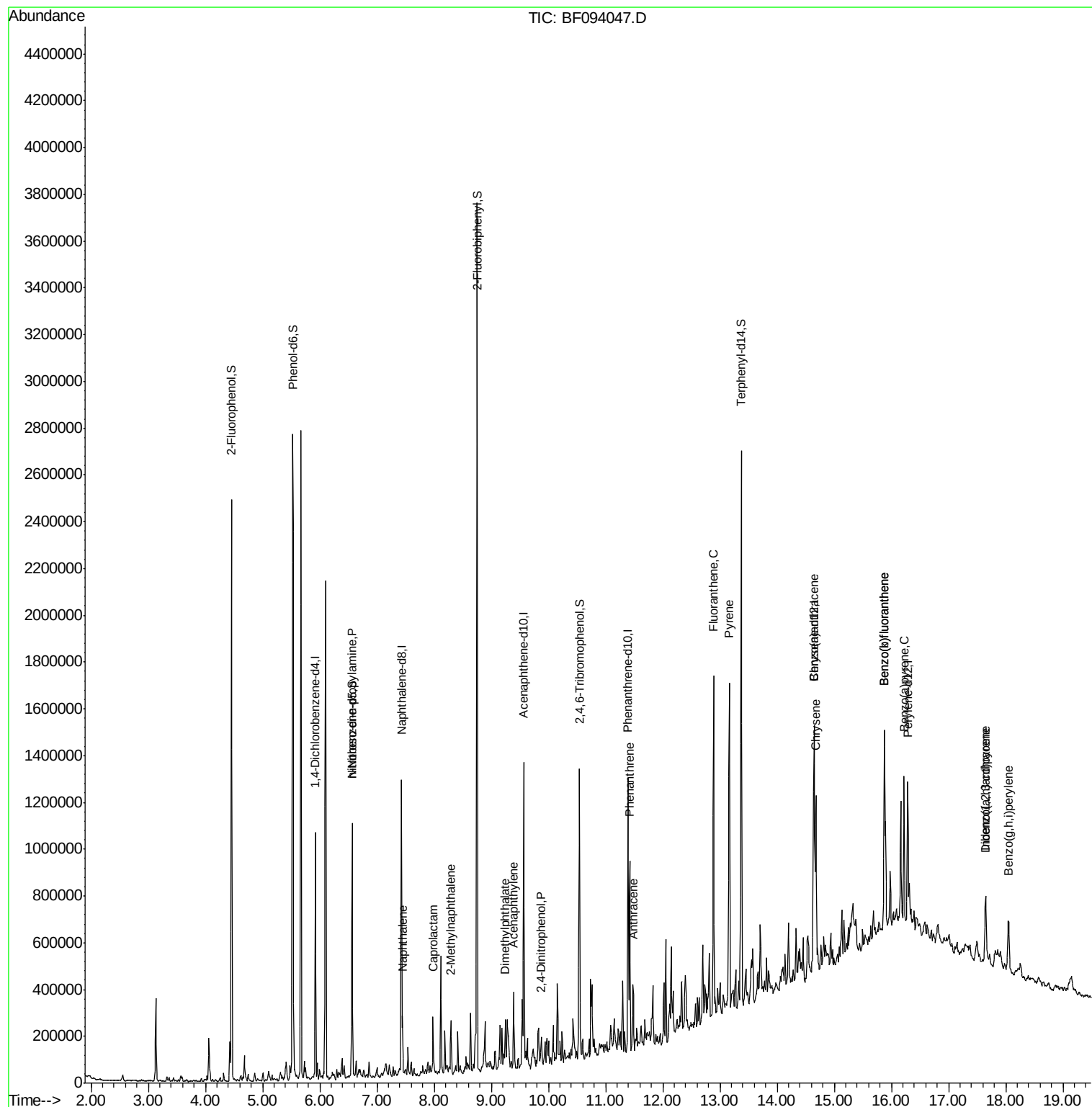
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.92	152	161116	20.00	ng	-0.03
21) Naphthalene-d8	7.43	136	627632	20.00	ng	-0.03
38) Acenaphthene-d10	9.57	164	278194	20.00	ng	-0.03
63) Phenanthrene-d10	11.39	188	440735	20.00	ng	-0.03
75) Chrysene-d12	14.65	240	296116	20.00	ng	-0.03
86) Perylene-d12	16.29	264	258587	20.00	ng	-0.02
System Monitoring Compounds						
5) 2-Fluorophenol	4.46	112	700820	73.47	ng	-0.02
7) Phenol-d6	5.53	99	1005913	85.24	ng	-0.02
23) Nitrobenzene-d5	6.57	82	391797	35.62	ng	-0.04
41) 2,4,6-Tribromophenol	10.54	330	143457	65.26	ng	-0.04
44) 2-Fluorobiphenyl	8.75	172	1298398	71.19	ng	-0.03
78) Terphenyl-d14	13.37	244	866896	65.62	ng	-0.03
Target Compounds						Qvalue
19) n-Nitroso-di-n-propylamine	6.57	70	52740	6.95	ng	# 74
31) Naphthalene	7.45	128	74327	2.46	ng	100
35) Caprolactam	7.98	113	6253	2.35	ng	# 61
37) 2-Methylnaphthalene	8.29	142	58869	2.93	ng	99
48) Acenaphthylene	9.39	152	137577	4.71	ng	96
49) Dimethylphthalate	9.25	163	80056	4.05	ng	# 98
53) 2,4-Dinitrophenol	9.88	184	118	4.71	ng	# 1
70) Phenanthrene	11.42	178	313603	12.79	ng	98
71) Anthracene	11.48	178	114810	4.55	ng	97
74) Fluoranthene	12.89	202	687369	27.38	ng	99
77) Pyrene	13.16	202	618527	28.78	ng	99
80) Benzo(a)anthracene	14.64	228	324049	18.77	ng	95
82) Chrysene	14.68	228	340521	21.25	ng	96
85) Indeno(1,2,3-cd)pyrene	17.64	276	184190	13.27	ng	94
87) Benzo(b)fluoranthene	15.87	252	643903	40.62	ng	# 97
88) Benzo(k)fluoranthene	15.87	252	643903	41.52	ng	99
89) Benzo(a)pyrene	16.22	252	274904	18.83	ng	# 94
90) Dibenzo(a,h)anthracene	17.66	278	53514	4.33	ng	# 87
91) Benzo(a,h,i)perylene	18.04	276	158546	12.73	ng	98

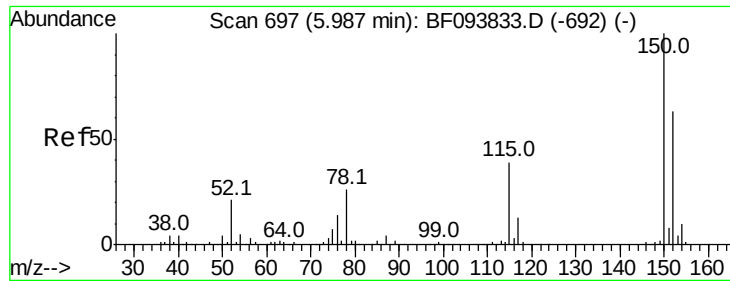
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 5.92 min Scan# 686

Delta R.T. -0.03 min

Lab File: BF094047.D

Acq: 30 Mar 2017 6:18

Instrument :

BNA_F

ClientSampleId :

E2-S13-SSW

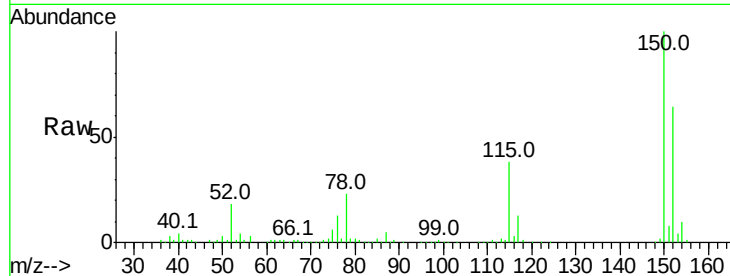
Tot Ion:152 Resp: 161116

Ion Ratio Lower Upper

152 100

150 157.0 126.2 189.2

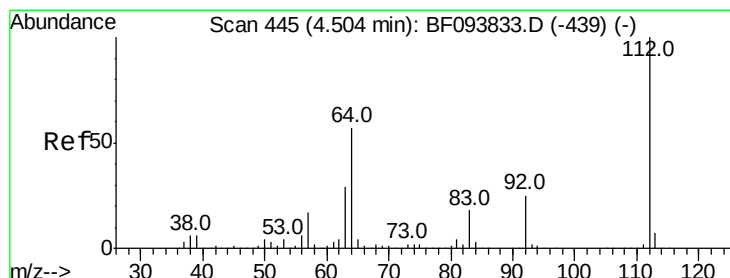
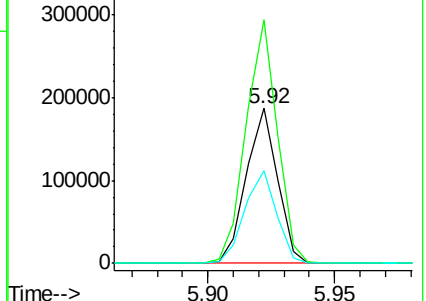
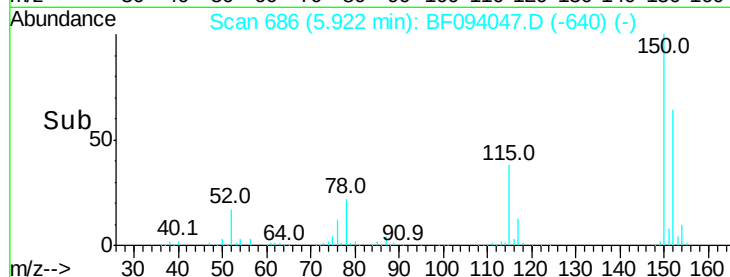
115 59.4 52.2 78.2



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: 73.47 ng

RT: 4.46 min Scan# 437

Delta R.T. -0.02 min

Lab File: BF094047.D

Acq: 30 Mar 2017 6:18

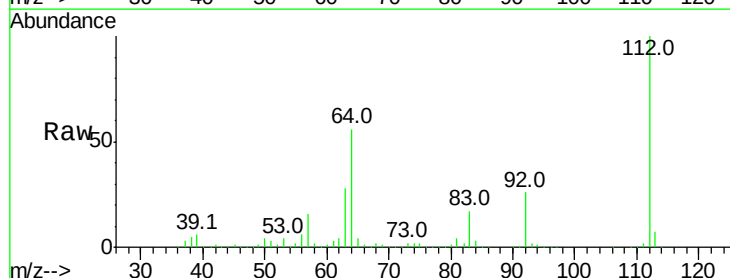
Tgt Ion:112 Resp: 700820

Ion Ratio Lower Upper

112 100

64 55.9 46.0 69.0

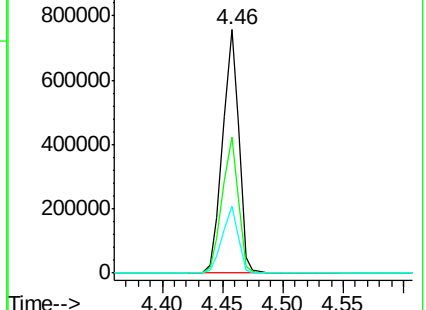
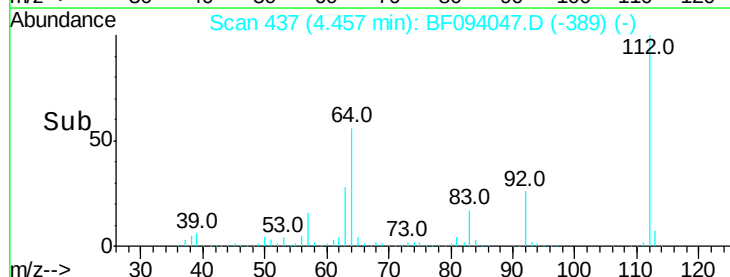
63 27.7 23.4 35.0

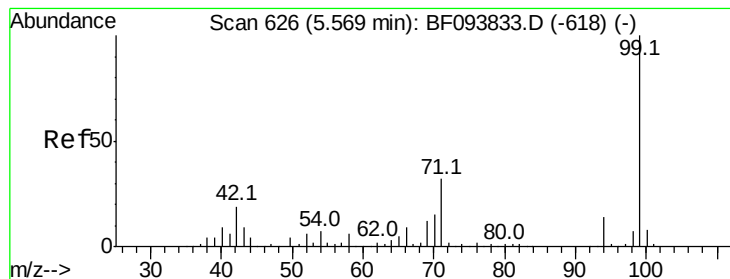


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 85.24 ng

RT: 5.53 min Scan# 619

Delta R.T. -0.02 min

Lab File: BF094047.D

Acq: 30 Mar 2017 6:18

Instrument :

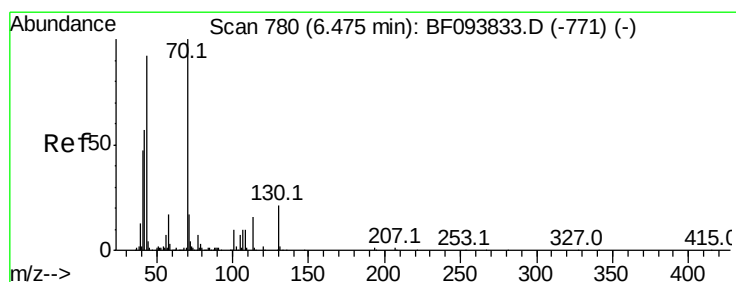
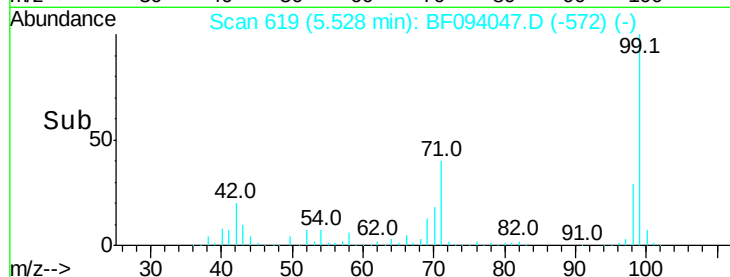
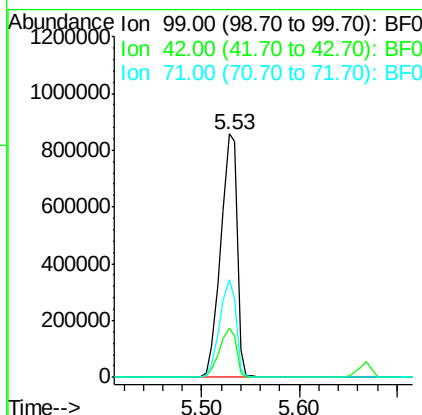
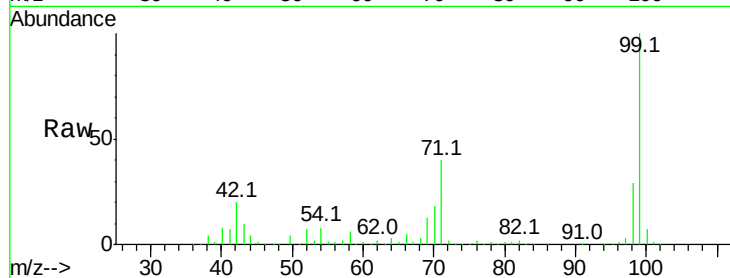
BNA_F

ClientSampleId :

E2-S13-SSW

Tot Ion: 99 Resp: 1005913

Ion	Ratio	Lower	Upper
99	100		
42	20.2	13.5	20.3
71	39.9	24.5	36.7#



#19

n-Nitroso-di-n-propylamine

Concen: 6.95 ng

RT: 6.57 min Scan# 796

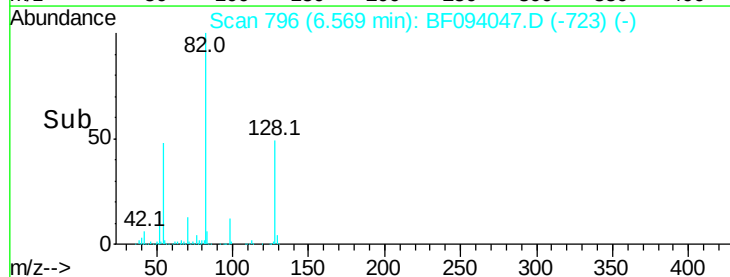
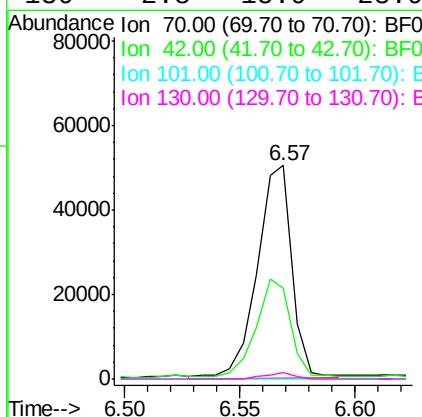
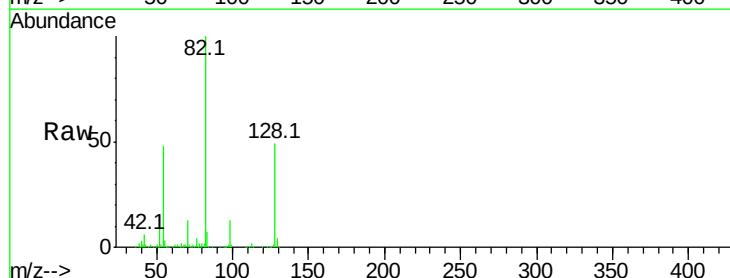
Delta R.T. 0.13 min

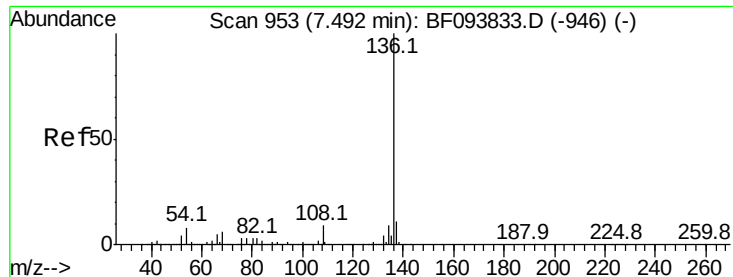
Lab File: BF094047.D

Acq: 30 Mar 2017 6:18

Tgt Ion: 70 Resp: 52740

Ion	Ratio	Lower	Upper
70	100		
42	42.3	47.2	70.8#
101	0.0	7.2	10.8#
130	2.8	15.9	23.9#





#21

Naphthalene-d8

Concen: 20.00 ng

RT: 7.43 min Scan# 942

Delta R.T. -0.03 min

Lab File: BF094047.D

Acq: 30 Mar 2017 6:18

Instrument :

BNA_F

ClientSampleId :

E2-S13-SSW

Tot Ion:136 Resp: 627632

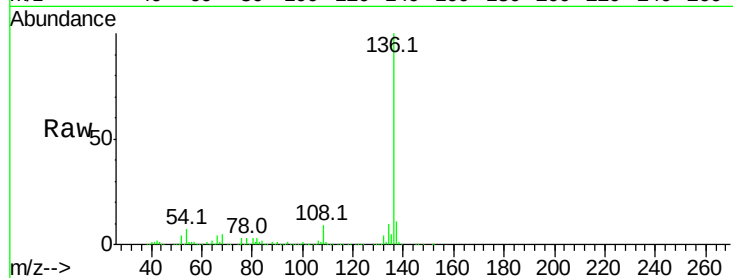
Ion Ratio Lower Upper

136 100

137 10.8 8.5 12.7

54 6.8 4.9 7.3

68 5.5 4.1 6.1

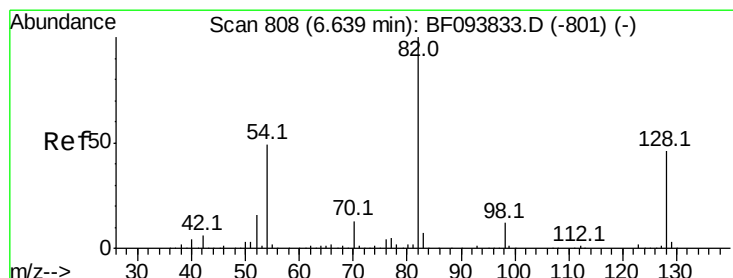
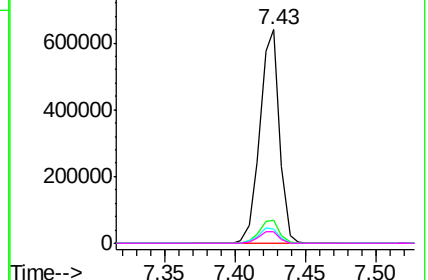
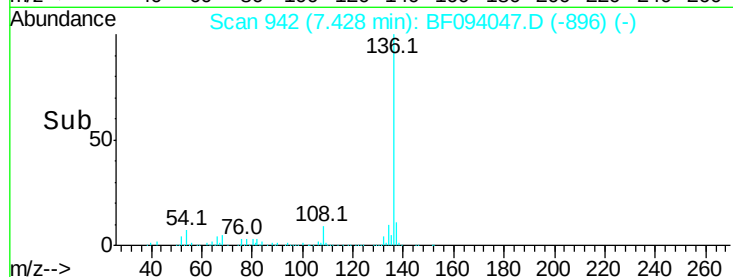


Abundance Ion 136.00 (135.70 to 136.70): E

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



#23

Nitrobenzene-d5

Concen: 35.62 ng

RT: 6.57 min Scan# 796

Delta R.T. -0.04 min

Lab File: BF094047.D

Acq: 30 Mar 2017 6:18

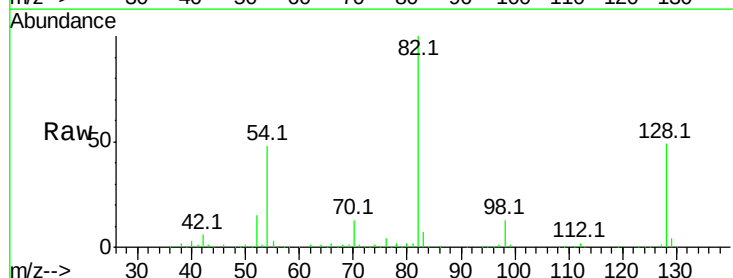
Tgt Ion: 82 Resp: 391797

Ion Ratio Lower Upper

82 100

128 48.8 34.0 51.0

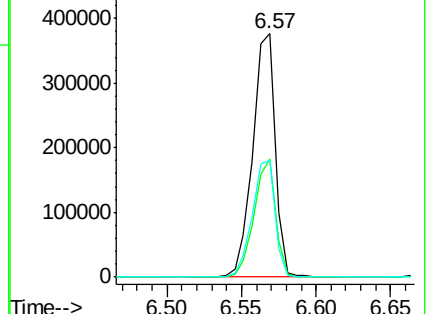
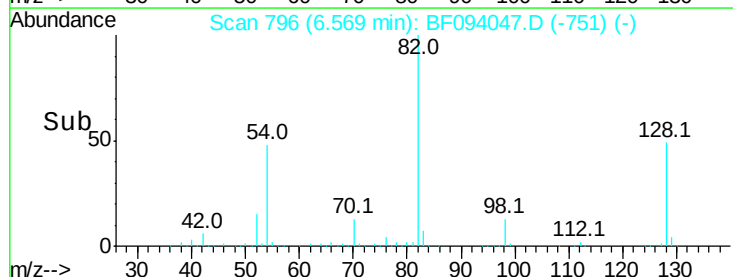
54 48.2 42.2 63.2

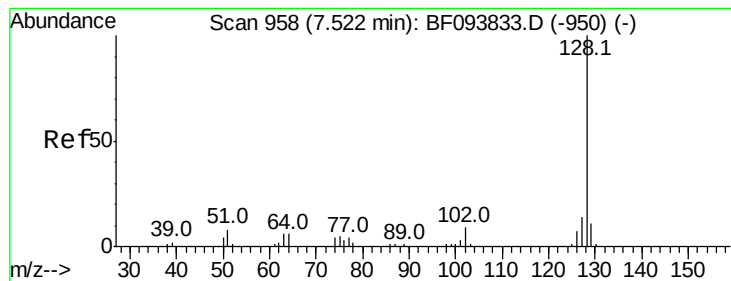


Abundance Ion 82.00 (81.70 to 82.70): BF0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF0





#31

Naphthalene

Concen: 2.46 ng

RT: 7.45 min Scan# 946

Delta R.T. -0.04 min

Lab File: BF094047.D

Acq: 30 Mar 2017 6:18

Instrument :

BNA_F

ClientSampleId :

E2-S13-SSW

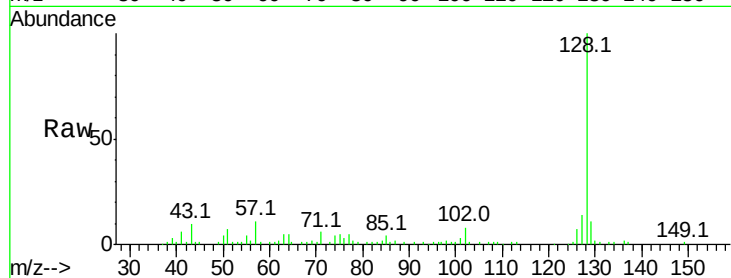
Tot Ion:128 Resp: 74327

Ion Ratio Lower Upper

128 100

129 11.4 9.0 13.6

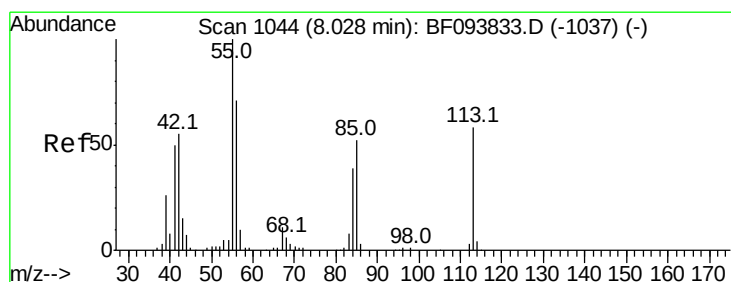
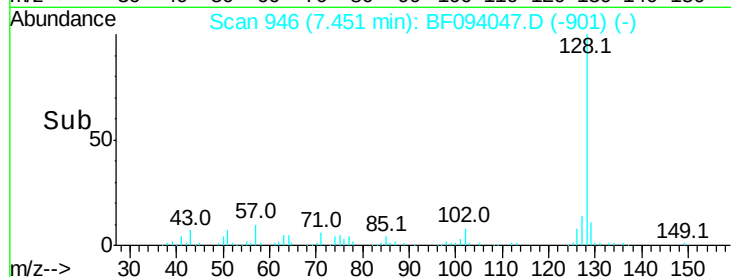
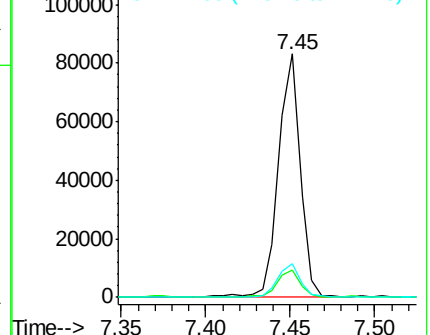
127 13.8 10.8 16.2



Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E



#35

Caprolactam

Concen: 2.35 ng

RT: 7.98 min Scan# 1036

Delta R.T. -0.02 min

Lab File: BF094047.D

Acq: 30 Mar 2017 6:18

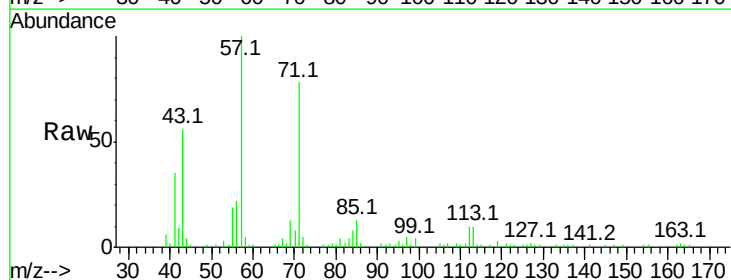
Tgt Ion:113 Resp: 6253

Ion Ratio Lower Upper

113 100

55 184.6 150.2 190.2

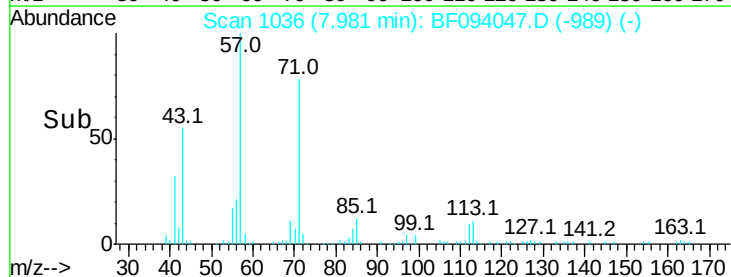
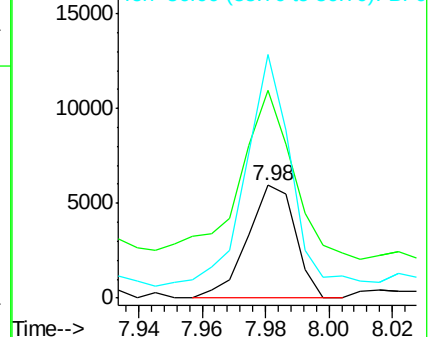
56 216.0 107.8 147.8#

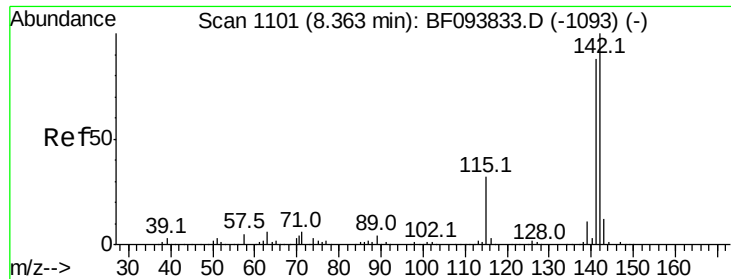


Abundance Ion 113.00 (112.70 to 113.70): E

Ion 55.00 (54.70 to 55.70): BF0

Ion 56.00 (55.70 to 56.70): BF0

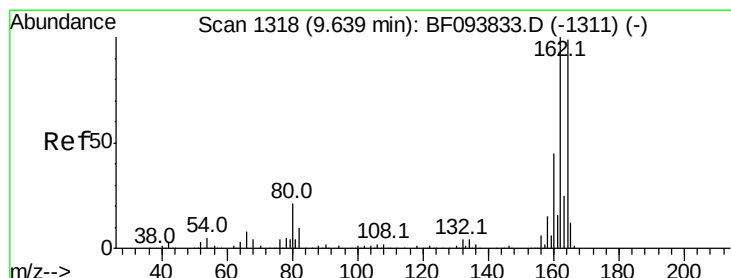
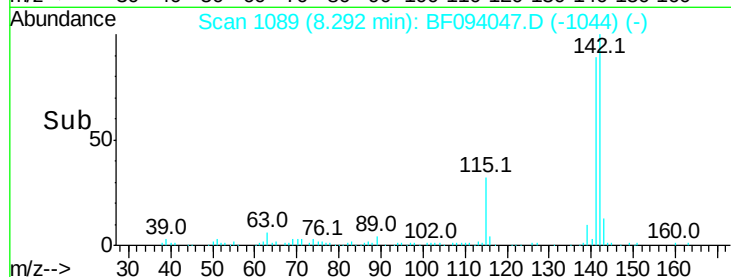
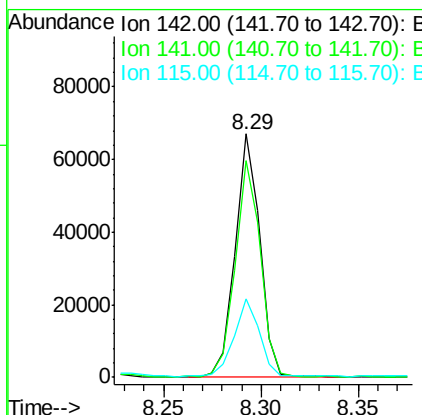
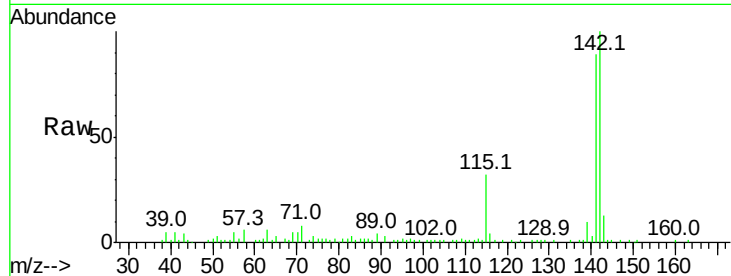




#37
 2-Methylnaphthalene
 Concen: 2.93 ng
 RT: 8.29 min Scan# 1089
 Delta R.T. -0.04 min
 Lab File: BF094047.D
 Acq: 30 Mar 2017 6:18

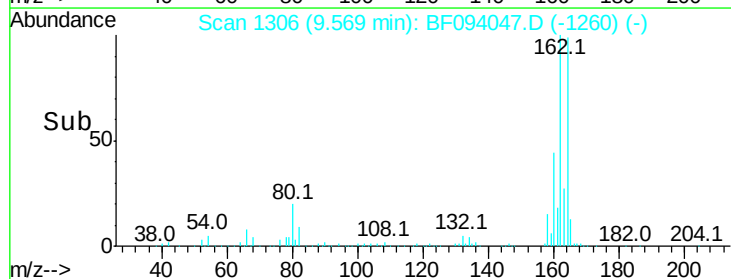
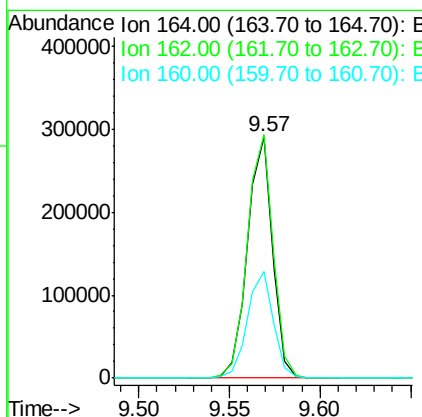
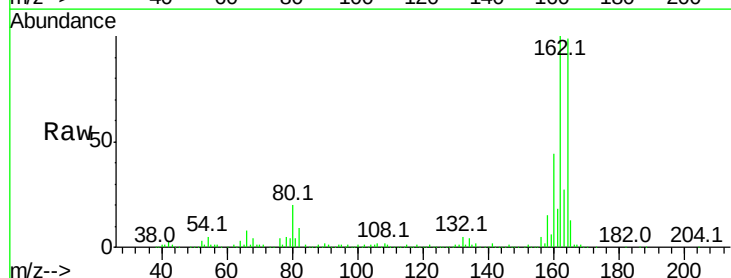
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 E2-S13-SSW

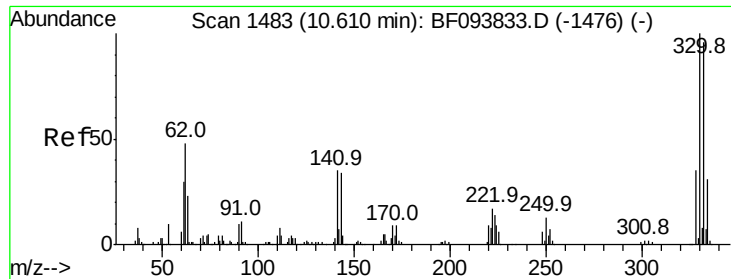
Tot Ion	Ratio	Lower	Upper
142	100		
141	89.0	71.3	106.9
115	32.3	27.1	40.7



#38
 Acenaphthene-d10
 Concen: 20.00 ng
 RT: 9.57 min Scan# 1306
 Delta R.T. -0.03 min
 Lab File: BF094047.D
 Acq: 30 Mar 2017 6:18

Tgt Ion	Ratio	Lower	Upper
164	100		
162	100.8	82.6	123.8
160	44.0	36.2	54.2

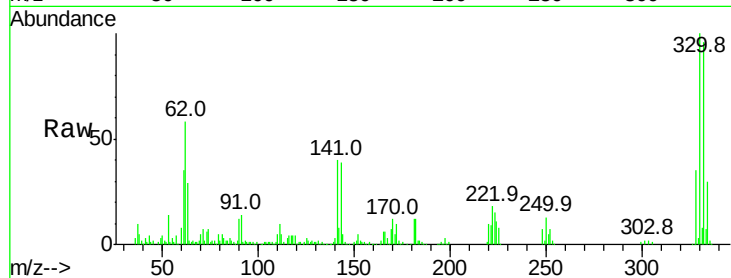




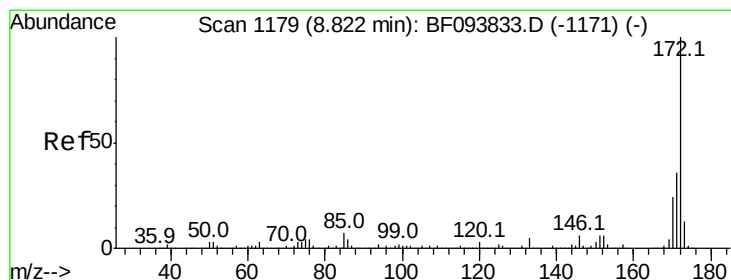
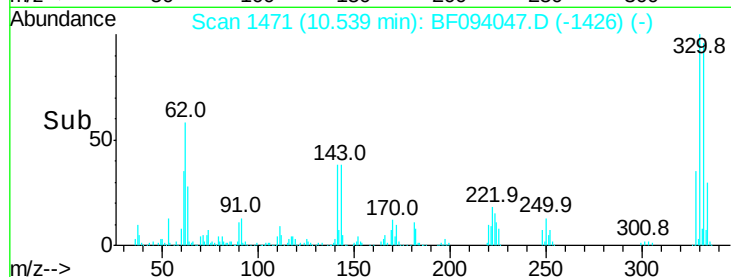
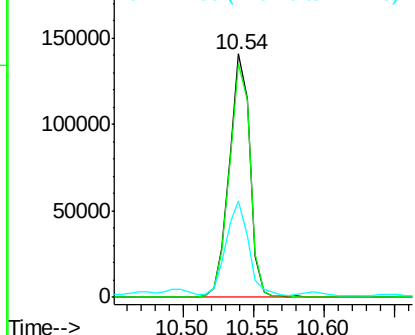
#41
 2,4,6-Tribromophenol
 Concen: 65.26 ng
 RT: 10.54 min Scan# 1471
 Delta R.T. -0.04 min
 Lab File: BF094047.D
 Acq: 30 Mar 2017 6:18

Instrument :
 BNA_F
 ClientSampleId :
 E2-S13-SSW

Tot Ion	Ratio	Lower	Upper
330	100		
332	97.8	76.6	115.0
141	42.3	31.4	47.2

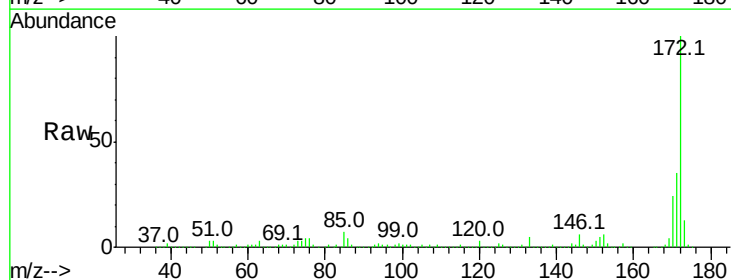


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

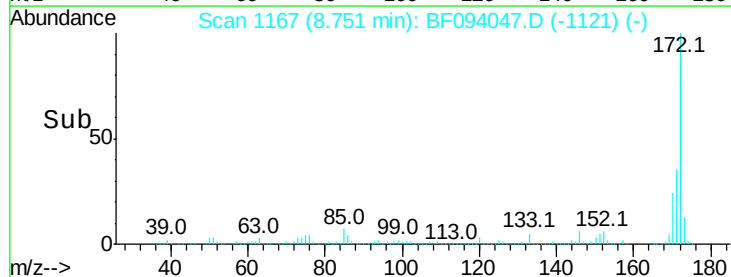
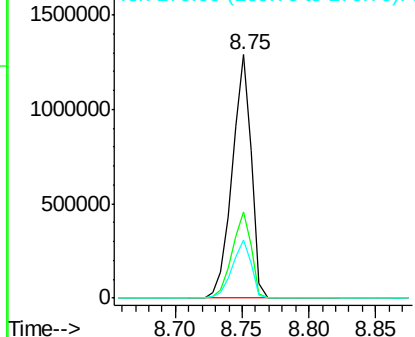


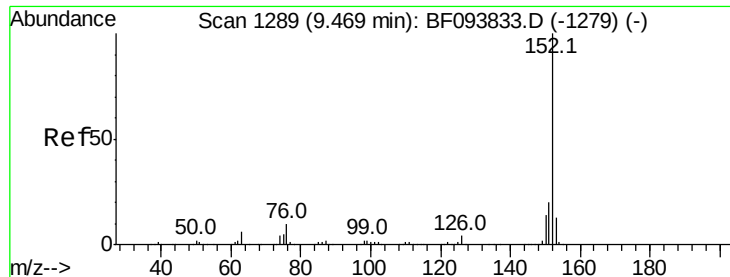
#44
 2-Fluorobiphenyl
 Concen: 71.19 ng
 RT: 8.75 min Scan# 1167
 Delta R.T. -0.03 min
 Lab File: BF094047.D
 Acq: 30 Mar 2017 6:18

Tgt Ion	Ratio	Lower	Upper
172	100		
171	35.4	29.6	44.4
170	24.0	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





#48

Acenaphthylene

Concen: 4.71 ng

RT: 9.39 min Scan# 1276

Delta R.T. -0.04 min

Lab File: BF094047.D

Acq: 30 Mar 2017 6:18

Instrument :

BNA_F

ClientSampleId :

E2-S13-SSW

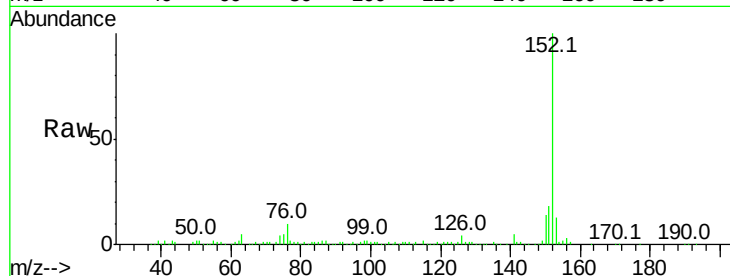
Tot Ion:152 Resp: 137577

Ion Ratio Lower Upper

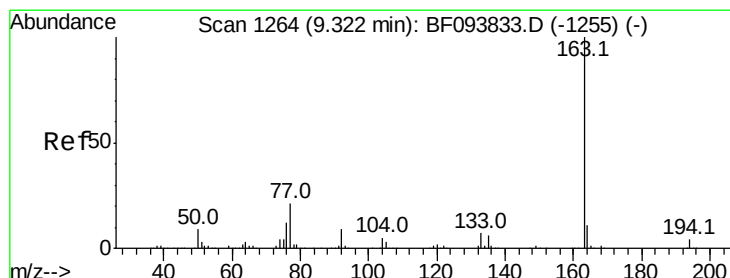
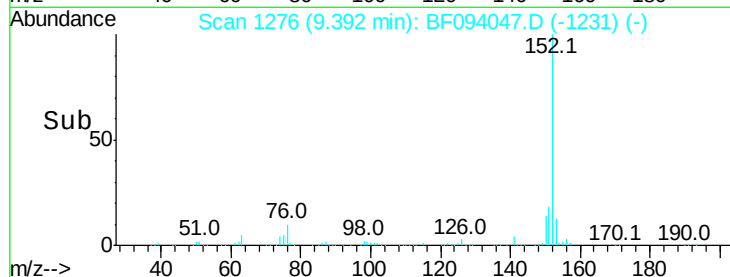
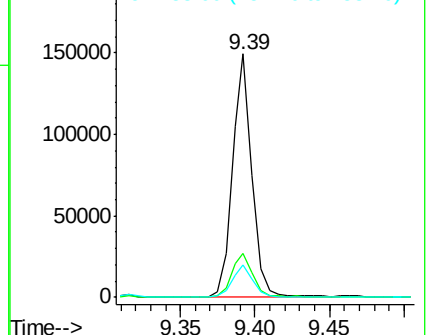
152 100

151 18.2 16.8 25.2

153 13.3 10.8 16.2



Abundance Ion 152.00 (151.70 to 152.70): E
Ion 151.00 (150.70 to 151.70): E
Ion 153.00 (152.70 to 153.70): E



#49

Dimethylphthalate

Concen: 4.05 ng

RT: 9.25 min Scan# 1251

Delta R.T. -0.04 min

Lab File: BF094047.D

Acq: 30 Mar 2017 6:18

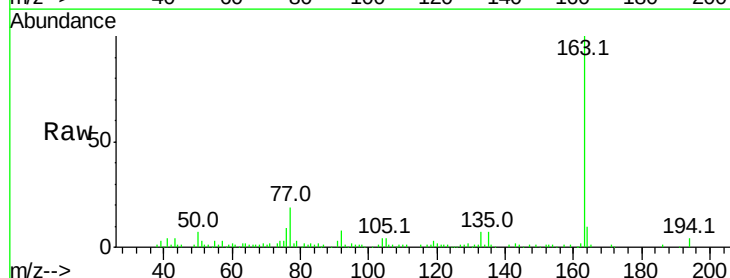
Tgt Ion:163 Resp: 80056

Ion Ratio Lower Upper

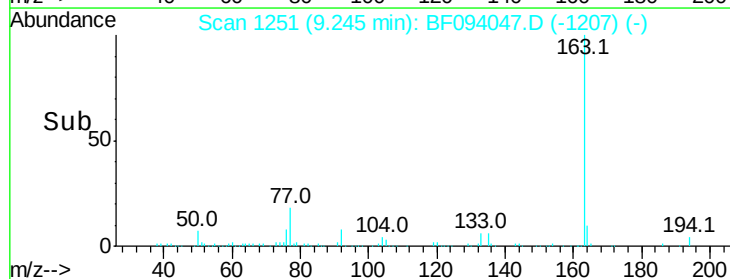
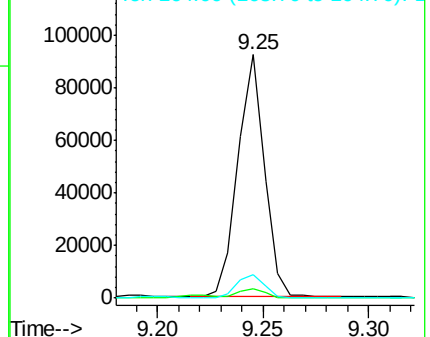
163 100

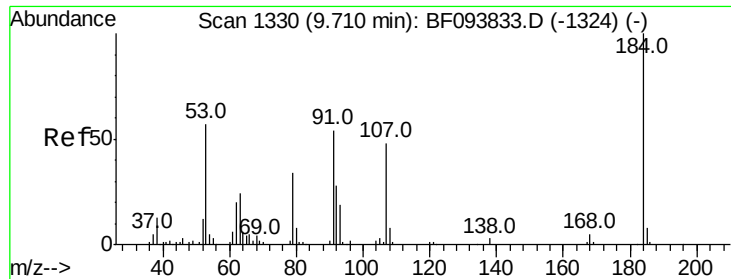
194 4.1 2.6 4.0#

164 9.7 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

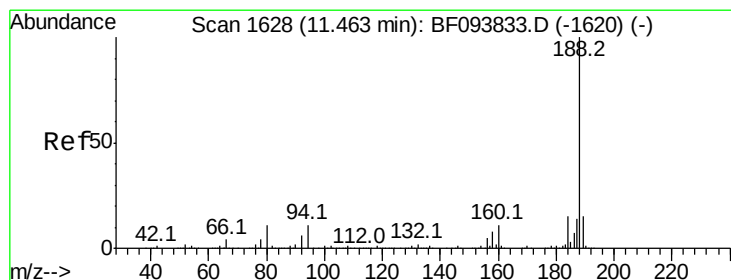
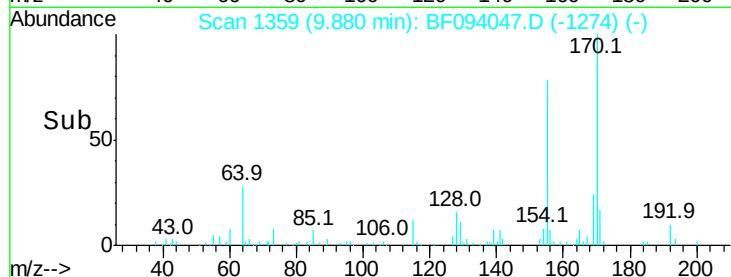
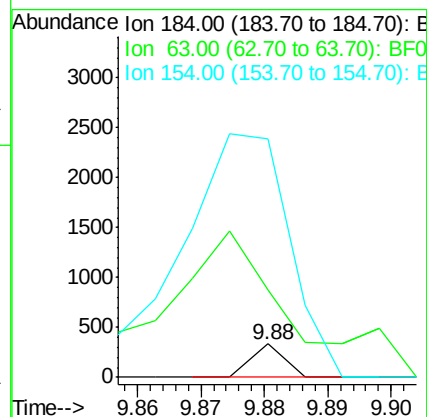
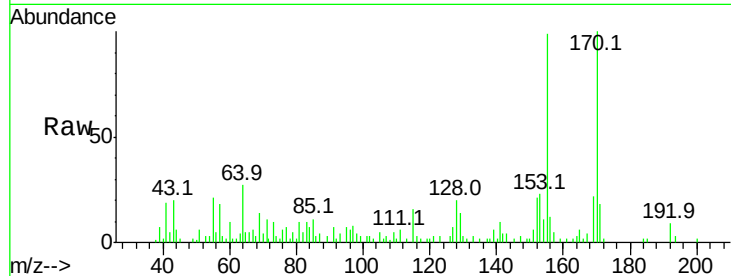




#53
2,4-Dinitrophenol
Concen: 4.71 ng
RT: 9.88 min Scan# 1359
Delta R.T. 0.20 min
Lab File: BF094047.D
Acq: 30 Mar 2017 6:18

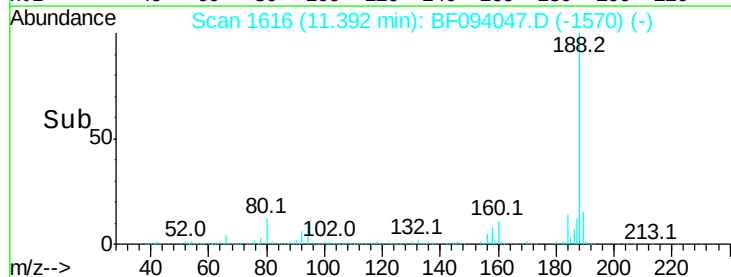
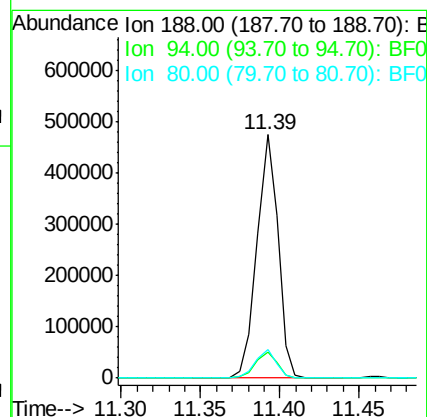
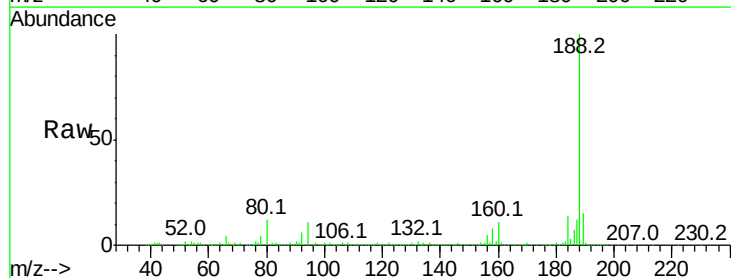
Instrument :
BNA_F
ClientSampleId :
E2-S13-SSW

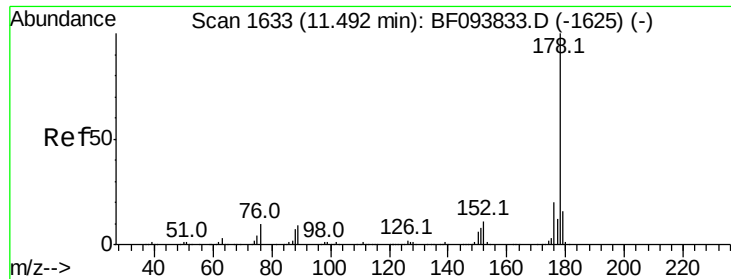
Tot Ion:184 Resp: 118
Ion Ratio Lower Upper
184 100
63 262.3 62.7 94.1#
154 716.8 81.1 121.7#



#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 11.39 min Scan# 1616
Delta R.T. -0.03 min
Lab File: BF094047.D
Acq: 30 Mar 2017 6:18

Tgt Ion:188 Resp: 440735
Ion Ratio Lower Upper
188 100
94 10.7 9.4 14.2
80 11.6 10.2 15.2

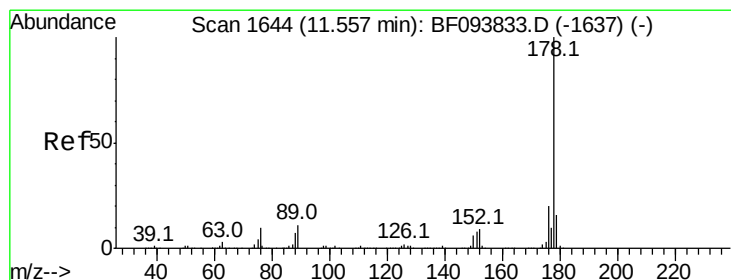
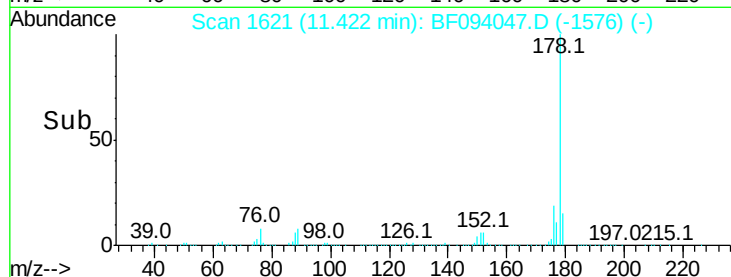
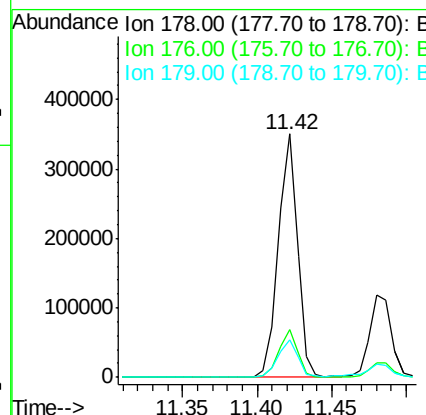
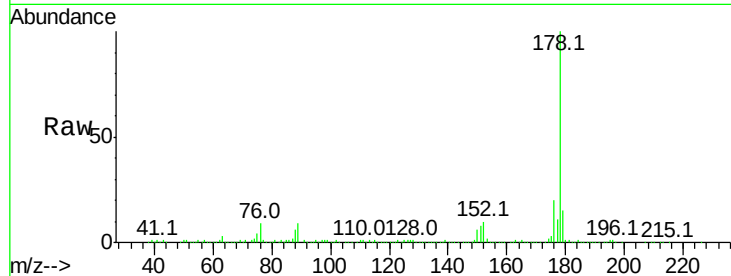




#70
Phenanthrene
Concen: 12.79 ng
RT: 11.42 min Scan# 1621
Delta R.T. -0.04 min
Lab File: BF094047.D
Acq: 30 Mar 2017 6:18

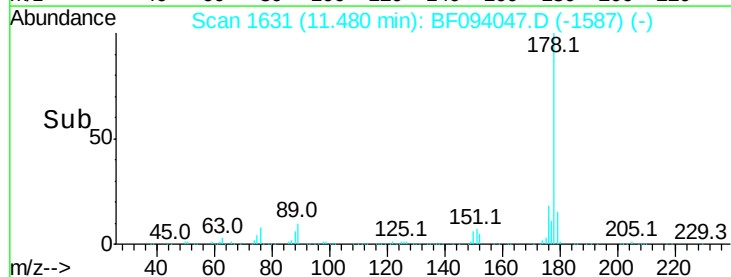
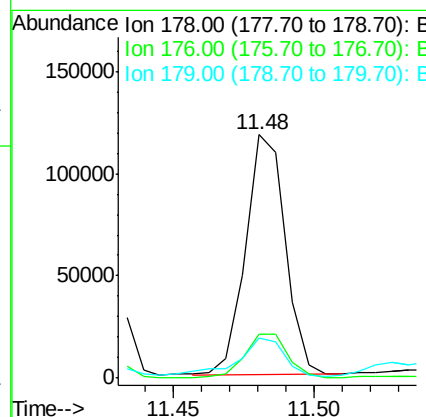
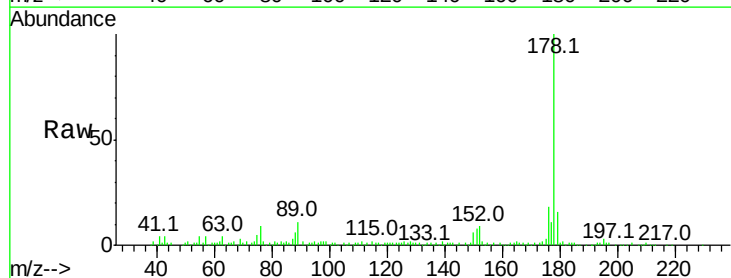
Instrument :
BNA_F
ClientSampleId :
E2-S13-SSW

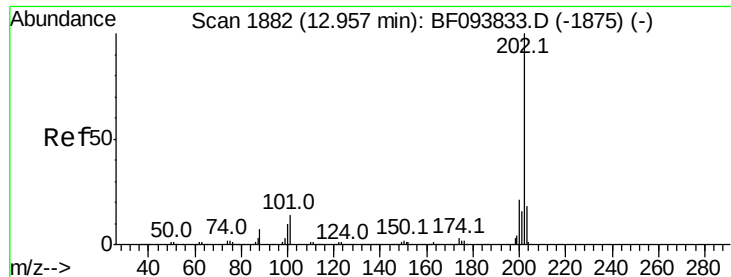
Tot Ion:178 Resp: 313603
Ion Ratio Lower Upper
178 100
176 19.5 16.2 24.4
179 15.2 12.6 19.0



#71
Anthracene
Concen: 4.55 ng
RT: 11.48 min Scan# 1631
Delta R.T. -0.04 min
Lab File: BF094047.D
Acq: 30 Mar 2017 6:18

Tgt Ion:178 Resp: 114810
Ion Ratio Lower Upper
178 100
176 17.9 15.8 23.8
179 16.3 12.7 19.1





#74

Fluoranthene

Concen: 27.38 ng

RT: 12.89 min Scan# 1870

Delta R.T. -0.04 min

Lab File: BF094047.D

Acq: 30 Mar 2017 6:18

Instrument :

BNA_F

ClientSampleId :

E2-S13-SSW

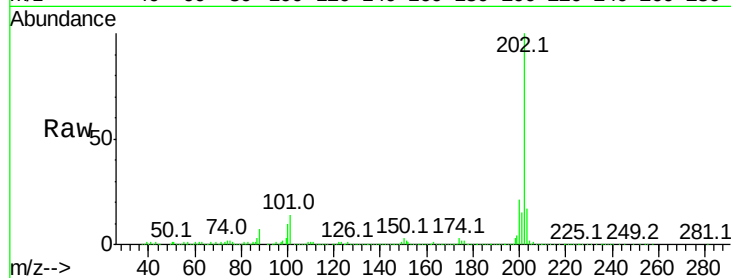
Tot Ion:202 Resp: 687369

Ion Ratio Lower Upper

202 100

101 13.7 0.0 33.2

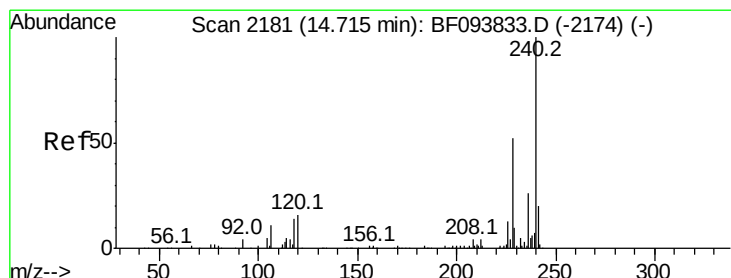
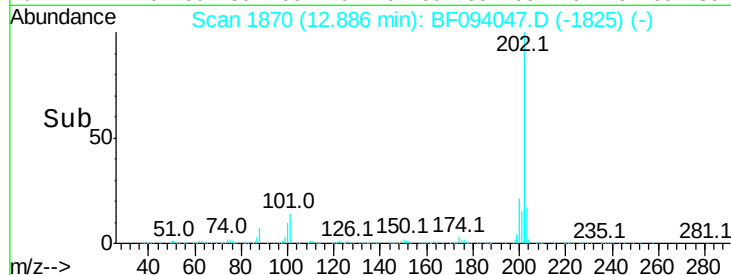
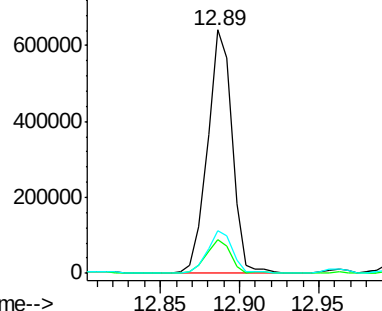
203 17.4 0.0 38.1



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E



#75

Chrysene-d12

Concen: 20.00 ng

RT: 14.65 min Scan# 2170

Delta R.T. -0.03 min

Lab File: BF094047.D

Acq: 30 Mar 2017 6:18

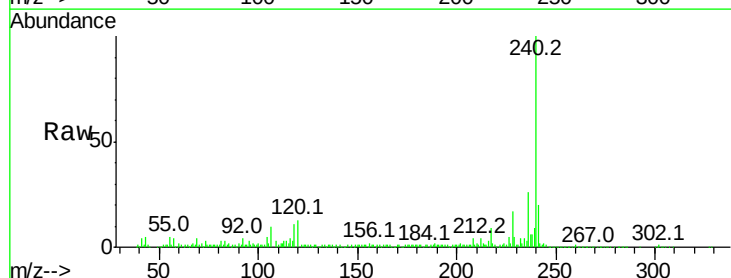
Tgt Ion:240 Resp: 296116

Ion Ratio Lower Upper

240 100

120 13.0 5.8 8.8#

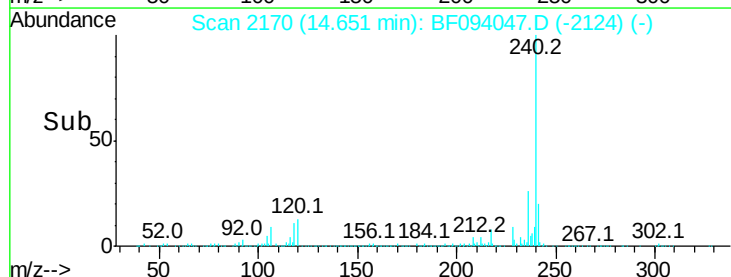
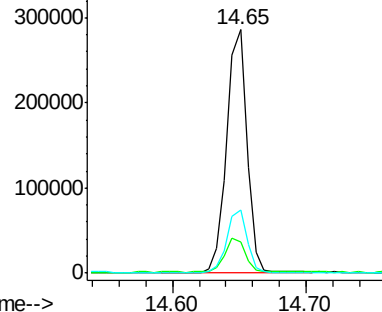
236 25.9 20.5 30.7

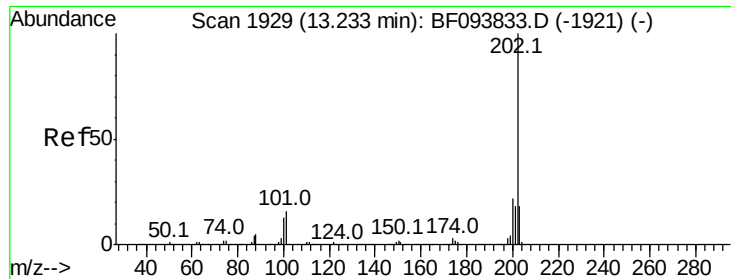


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

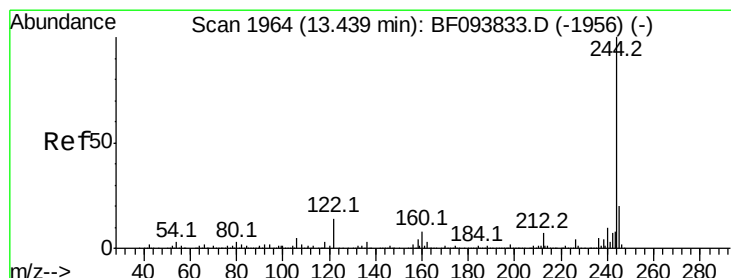
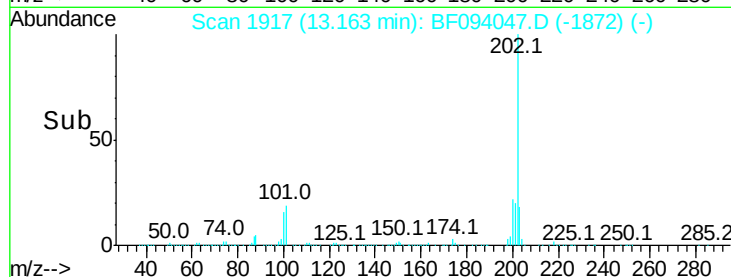
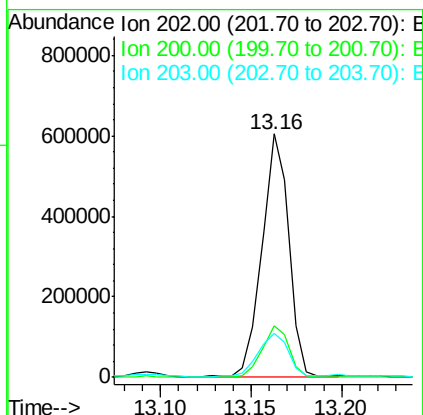
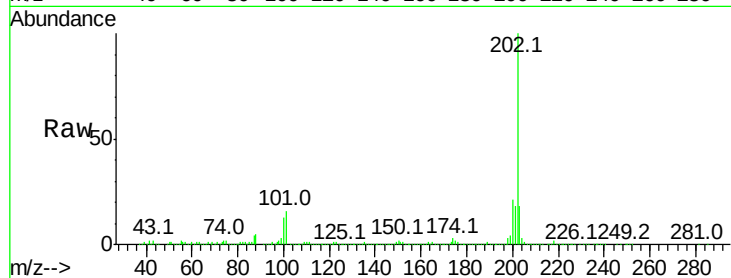




#77
Pvrene
Concen: 28.78 ng
RT: 13.16 min Scan# 1917
Delta R.T. -0.04 min
Lab File: BF094047.D
Acq: 30 Mar 2017 6:18

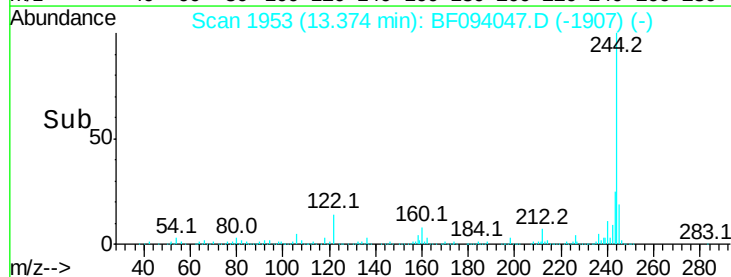
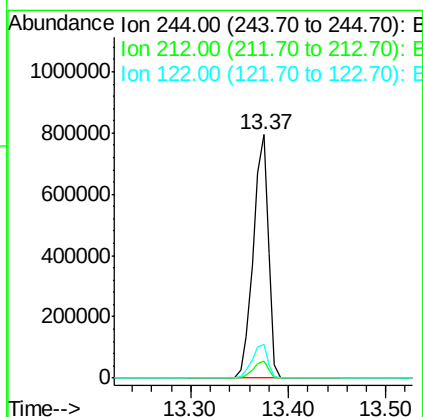
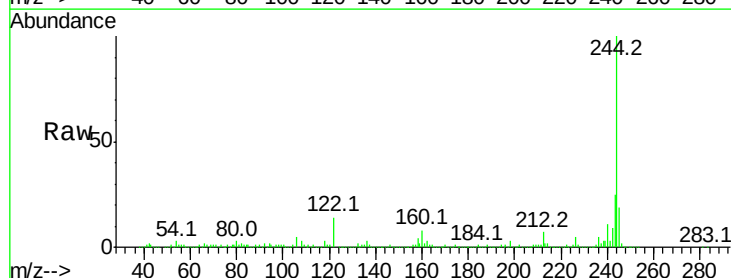
Instrument :
BNA_F
ClientSampleId :
E2-S13-SSW

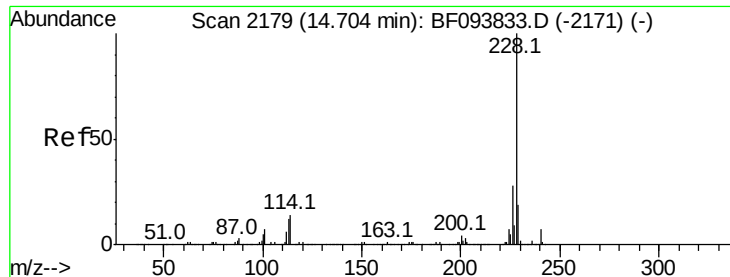
Tot Ion	Ratio	Lower	Upper
202	100		
200	21.1	17.6	26.4
203	18.3	14.4	21.6



#78
Terphenyl-d14
Concen: 65.62 ng
RT: 13.37 min Scan# 1953
Delta R.T. -0.03 min
Lab File: BF094047.D
Acq: 30 Mar 2017 6:18

Tgt Ion	Ratio	Lower	Upper
244	100		
212	6.9	6.0	9.0
122	13.6	10.3	15.5





#80

Benzo(a)anthracene

Concen: 18.77 ng

RT: 14.64 min Scan# 2168

Delta R.T. -0.03 min

Lab File: BF094047.D

Acq: 30 Mar 2017 6:18

Instrument :

BNA_F

ClientSampleId :

E2-S13-SSW

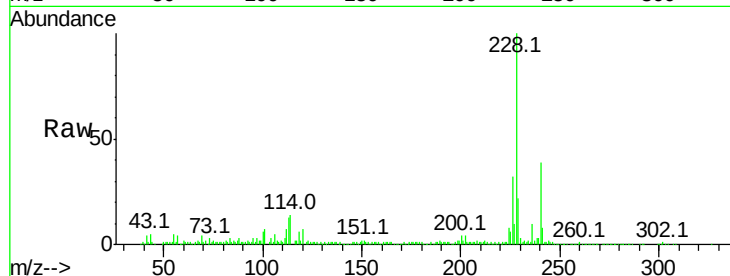
Tot Ion:228 Resp: 324049

Ion Ratio Lower Upper

228 100

226 31.5 22.6 33.8

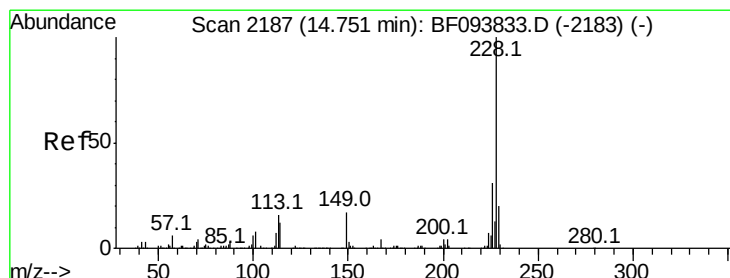
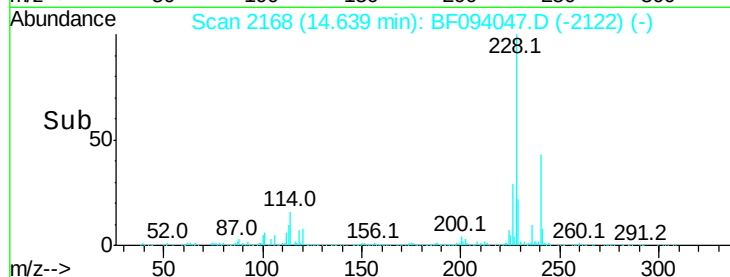
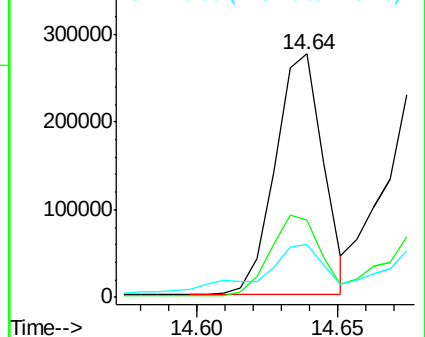
229 22.0 16.3 24.5



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: 21.25 ng

RT: 14.68 min Scan# 2175

Delta R.T. -0.04 min

Lab File: BF094047.D

Acq: 30 Mar 2017 6:18

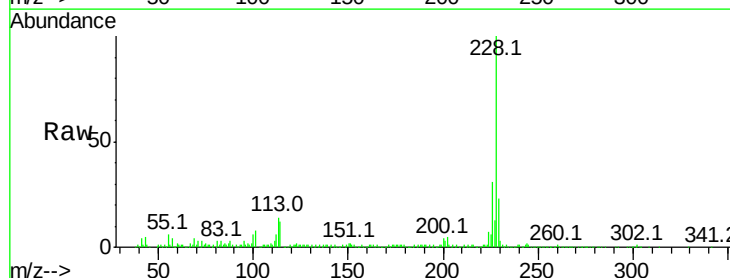
Tgt Ion:228 Resp: 340521

Ion Ratio Lower Upper

228 100

226 30.7 24.9 37.3

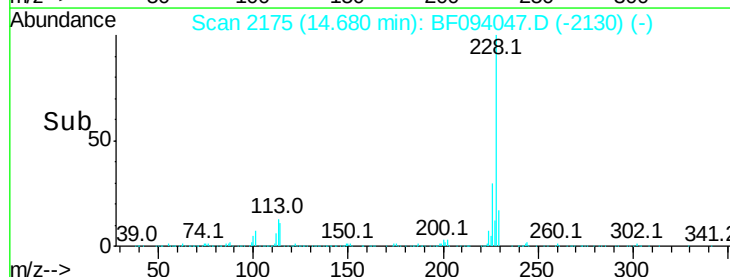
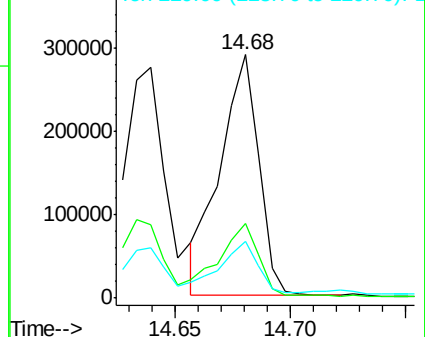
229 23.4 15.8 23.6

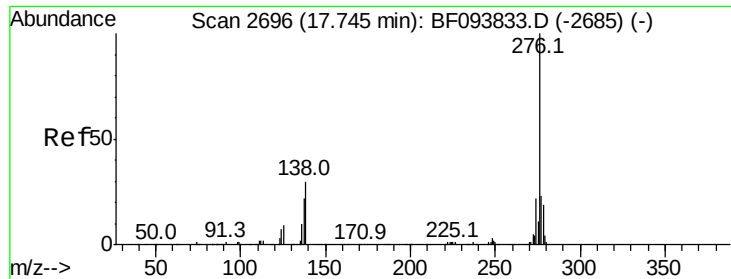


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

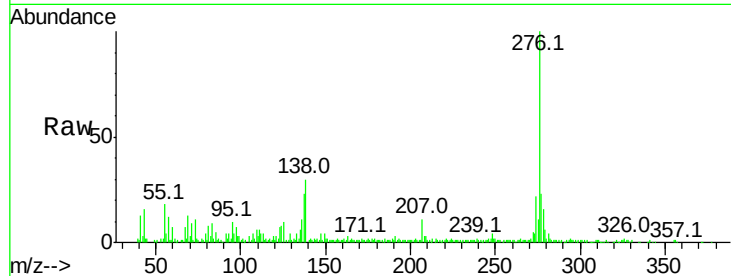




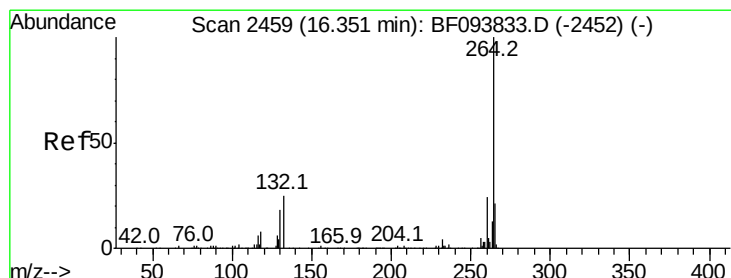
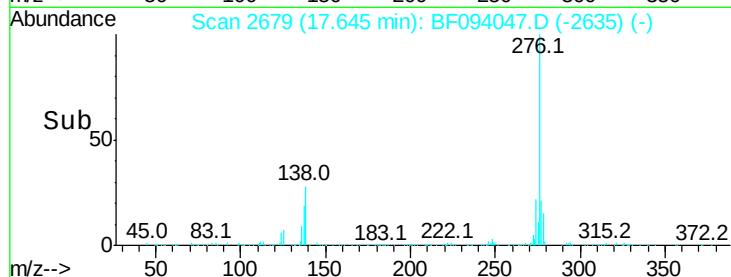
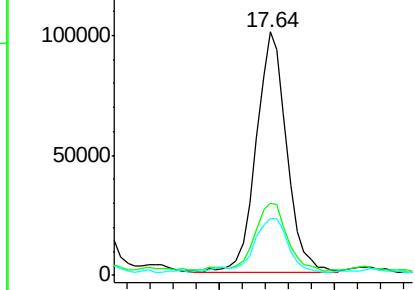
#85
 Indeno(1,2,3-cd)pyrene
 Concen: 13.27 ng
 RT: 17.64 min Scan# 2679
 Delta R.T. -0.04 min
 Lab File: BF094047.D
 Acq: 30 Mar 2017 6:18

Instrument :
 BNA_F
 ClientSampleId :
 E2-S13-SSW

Tot Ion:	276	Resp:	184190
Ion	Ratio	Lower	Upper
276	100		
138	29.7	27.8	41.6
277	26.7	20.2	30.4

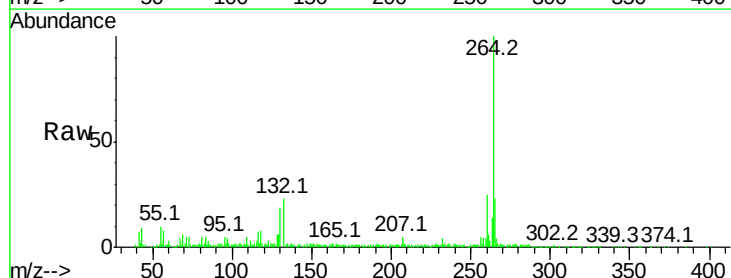


Abundance Ion 276.00 (275.70 to 276.70): E
 Ion 138.00 (137.70 to 138.70): E
 Ion 277.00 (276.70 to 277.70): E

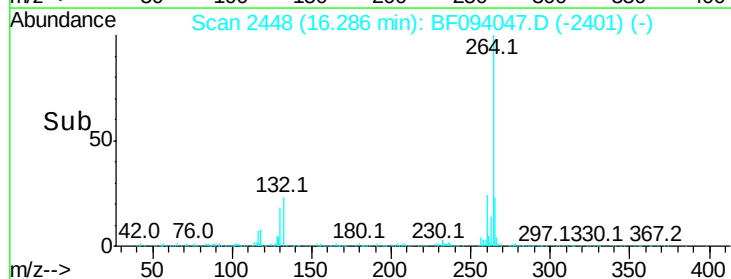
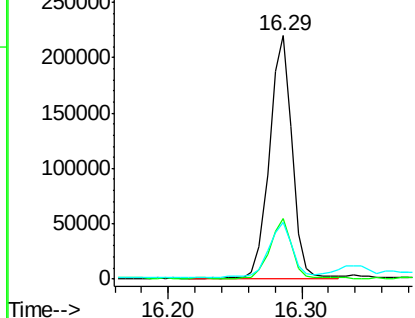


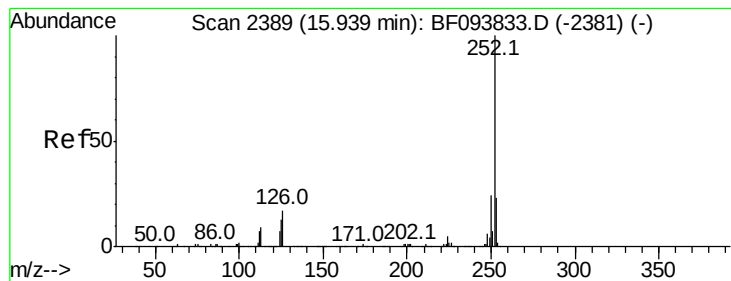
#86
 Perylene-d12
 Concen: 20.00 ng
 RT: 16.29 min Scan# 2448
 Delta R.T. -0.02 min
 Lab File: BF094047.D
 Acq: 30 Mar 2017 6:18

Tgt Ion:	264	Resp:	258587
Ion	Ratio	Lower	Upper
264	100		
260	24.7	19.5	29.3
265	23.4	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: 40.62 ng

RT: 15.87 min Scan# 2378

Delta R.T. -0.02 min

Lab File: BF094047.D

Acq: 30 Mar 2017 6:18

Instrument :

BNA_F

ClientSampleId :

E2-S13-SSW

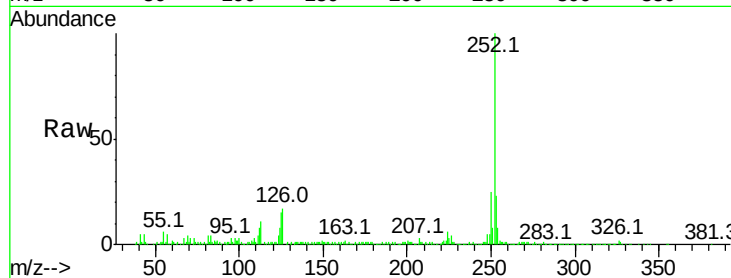
Tot Ion:252 Resp: 643903

Ion Ratio Lower Upper

252 100

253 23.0 18.1 27.1

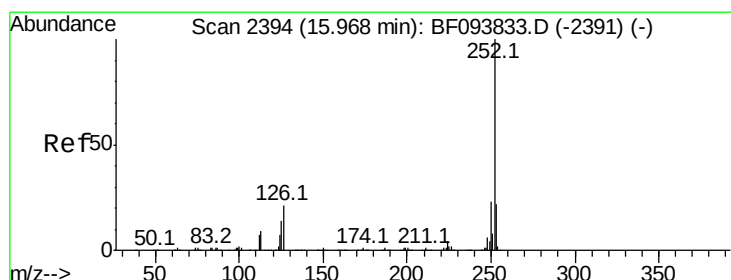
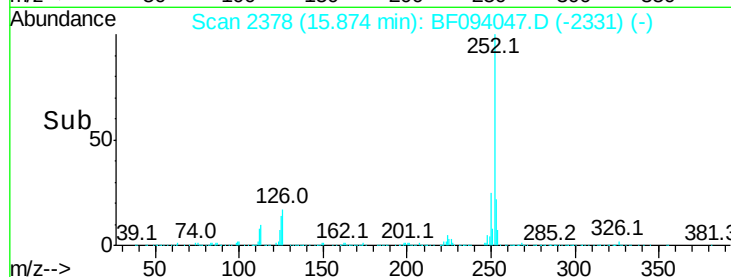
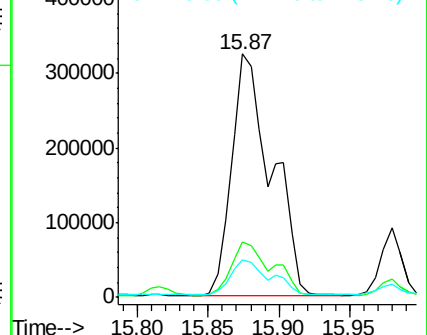
125 15.5 9.8 14.8#



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: 41.52 ng

RT: 15.87 min Scan# 2378

Delta R.T. -0.06 min

Lab File: BF094047.D

Acq: 30 Mar 2017 6:18

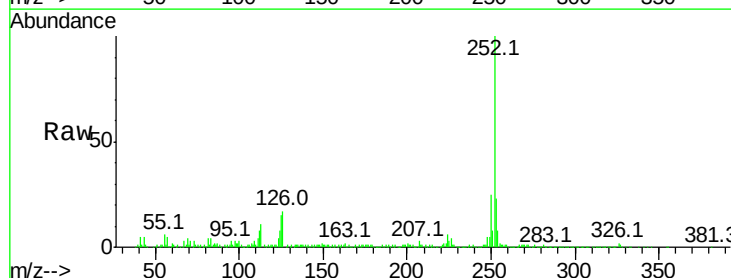
Tgt Ion:252 Resp: 643903

Ion Ratio Lower Upper

252 100

253 23.0 18.4 27.6

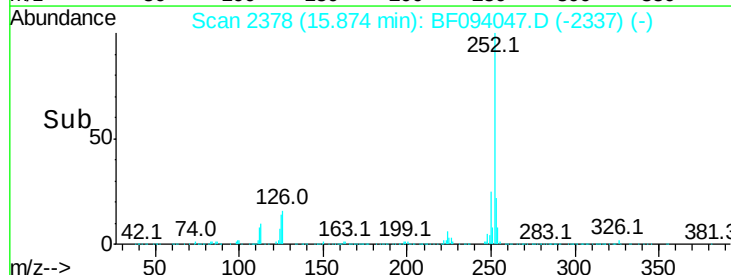
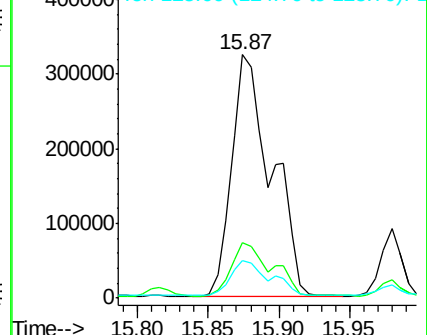
125 15.5 13.1 19.7

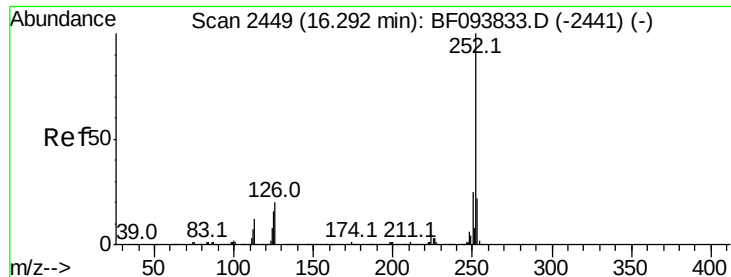


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#89

Benzo(a)pyrene

Concen: 18.83 ng

RT: 16.22 min Scan# 2437

Delta R.T. -0.03 min

Lab File: BF094047.D

Acq: 30 Mar 2017 6:18

Instrument :

BNA_F

ClientSampleId :

E2-S13-SSW

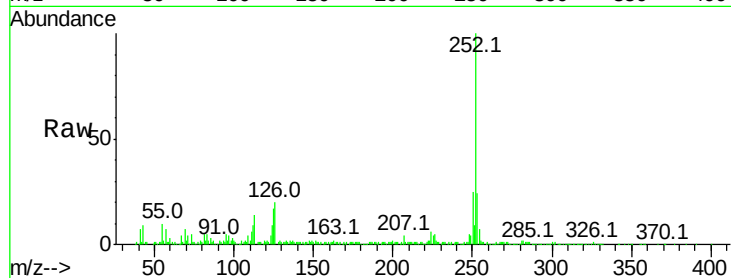
Tot Ion:252 Resp: 274904

Ion Ratio Lower Upper

252 100

253 23.9 17.5 26.3

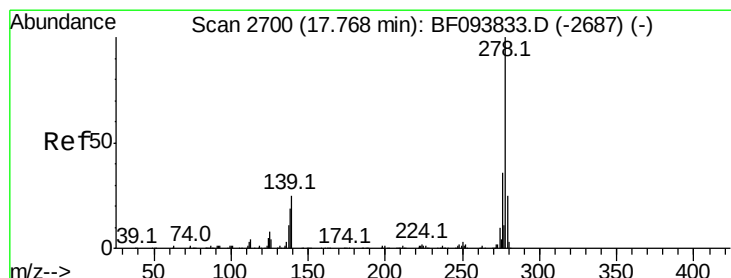
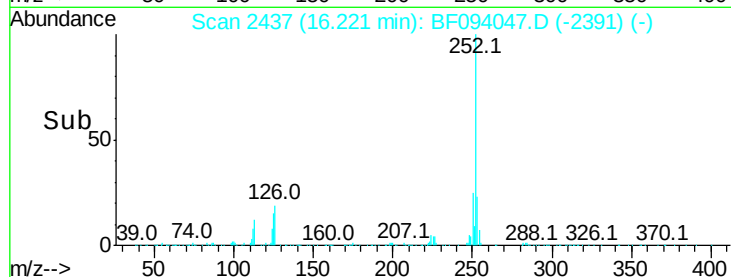
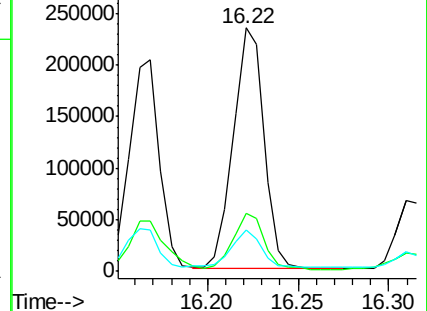
125 16.9 11.0 16.4#



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



#90

Dibenzo(a,h)anthracene

Concen: 4.33 ng

RT: 17.66 min Scan# 2681

Delta R.T. -0.05 min

Lab File: BF094047.D

Acq: 30 Mar 2017 6:18

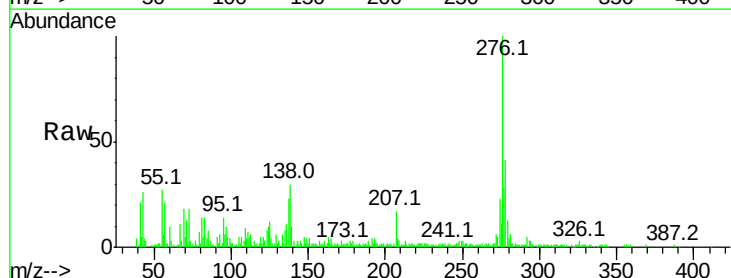
Tgt Ion:278 Resp: 53514

Ion Ratio Lower Upper

278 100

139 24.8 16.6 24.8

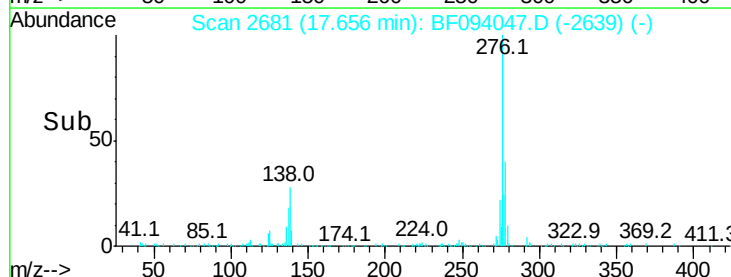
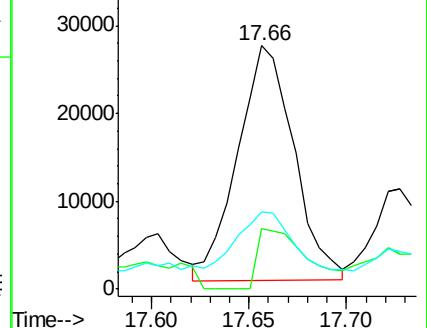
279 31.9 19.3 28.9#

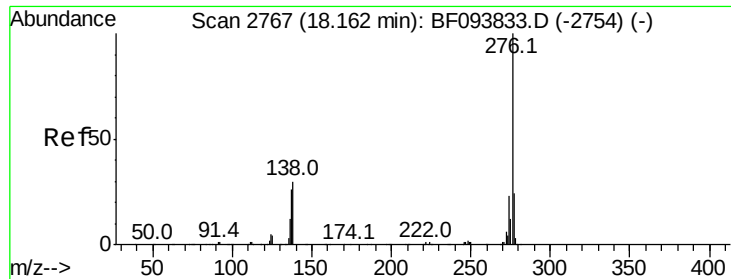


Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E

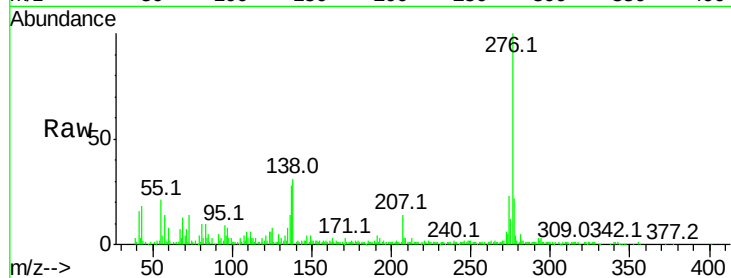




#91
 Benzo(a,h,i)perylene
 Concen: 12.73 ng
 RT: 18.04 min Scan# 2747
 Delta R.T. -0.05 min
 Lab File: BF094047.D
 Acq: 30 Mar 2017 6:18

Instrument :
 BNA_F
 ClientSampleId :
 E2-S13-SSW

Tot Ion	Ratio	Lower	Upper
276	100		
277	21.9	18.6	28.0
138	30.6	25.4	38.0



Abundance

Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

