

Data Path : Z:\HPCHEM1\BNA F\DATA\BF081217\
 Data File : BF097665.D
 Acq On : 13 Aug 2017 10:03
 Operator : SJ/JU
 Sample : I4736-06
 Misc :
 ALS Vial : 32 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SB-37-COMP

Manual Integrations
 APPROVED

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 8/14/2017 7:08:09 PM

Quant Time: Aug 14 08:00:01 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF081117.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Aug 11 15:55:57 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.50	152	128392	20.00	ng	-0.01
21) Naphthalene-d8	9.53	136	514300	20.00	ng	-0.01
38) Acenaphthene-d10	12.35	164	198844	20.00	ng	-0.02
63) Phenanthrene-d10	14.75	188	263605	20.00	ng	-0.01
75) Chrysene-d12	18.45	240	187988	20.00	ng	-0.01
86) Perylene-d12	20.12	264	156917	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.43	112	839450	103.92	ng	0.02
7) Phenol-d6	7.07	99	948861	94.69	ng	0.02
23) Nitrobenzene-d5	8.42	82	578963	70.59	ng	0.00
41) 2,4,6-Tribromophenol	13.65	330	108623	71.86	ng	-0.01
44) 2-Fluorobiphenyl	11.30	172	672904	51.07	ng	-0.02
78) Terphenyl-d14	17.10	244	346043	38.10	ng	-0.02
Target Compounds						
10) Phenol	7.09	94	35647	3.249	ng	Qvalue # 66
48) Acenaphthylene	12.13	152	58942	2.831	ng	98
49) Dimethylphthalate	12.00	163	150131	9.797	ng	98
51) Acenaphthene	12.40	154	34769	2.786	ng	99
57) Fluorene	13.24	166	45998	3.202	ng	95
70) Phenanthrene	14.79	178	750500	49.432	ng	99
71) Anthracene	14.87	178	199485	12.842	ng	97
72) Carbazole	15.17	167	51926	3.511	ng	98
74) Fluoranthene	16.56	202	682994	49.784	ng	96
77) Pyrene	16.86	202	877399	56.440	ng	98
80) Benzo(a)anthracene	18.44	228	438884	39.973	ng	97
82) Chrysene	18.49	228	412039	37.731	ng	98
85) Indeno(1,2,3-cd)pyrene	21.33	276	181619	21.383	ng	96
87) Benzo(b)fluoranthene	19.72	252	483095m	51.270	ng	
88) Benzo(k)fluoranthene	19.74	252	155653m	16.402	ng	
89) Benzo(a)pyrene	20.07	252	318225	36.795	ng	100
90) Dibenzo(a,h)anthracene	21.33	278	43568	7.036	ng	# 77
91) Benzo(g,h,i)perylene	21.69	276	162157	23.871	ng	98

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

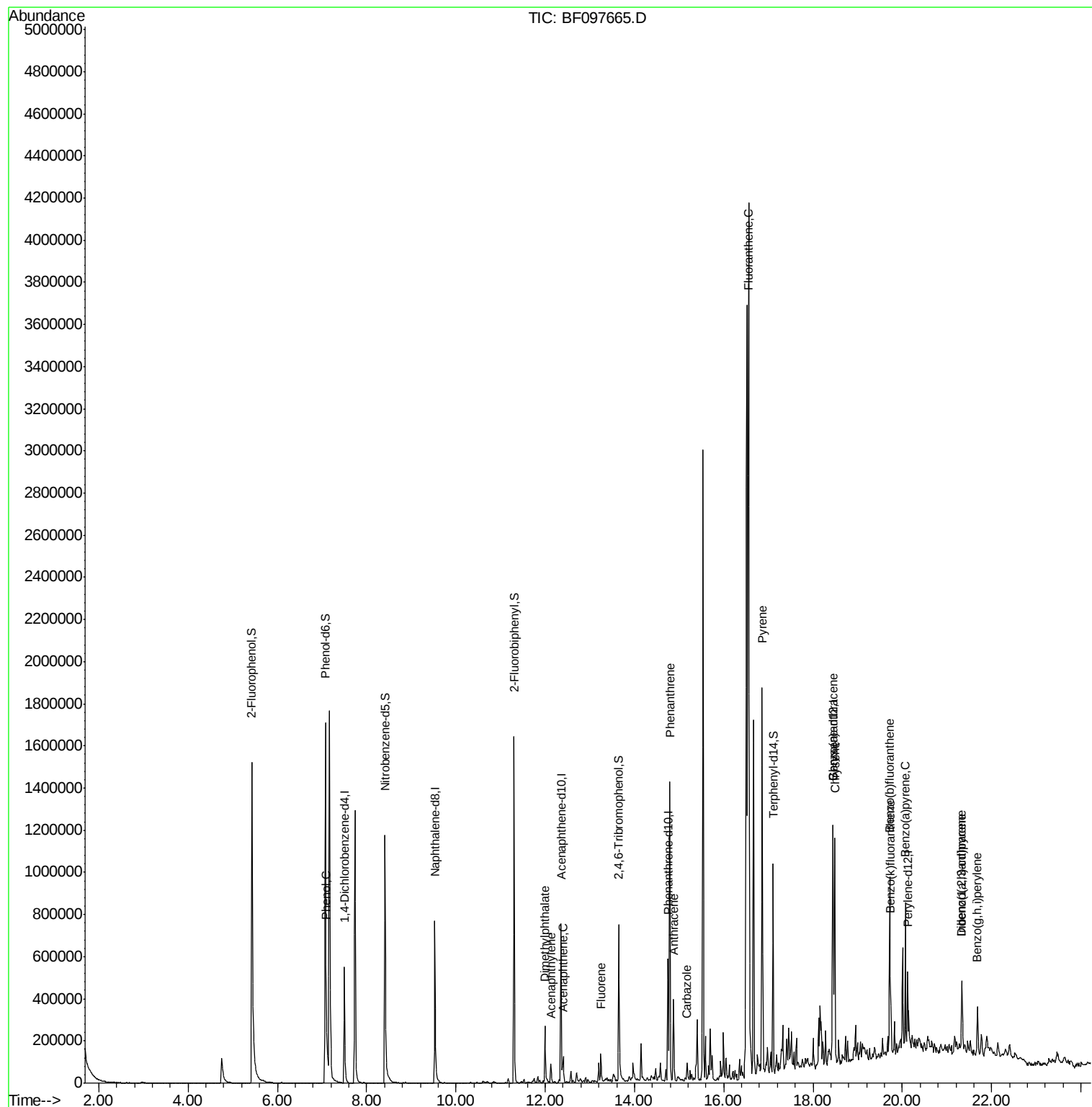
Data Path : Z:\HPCHEM1\BNA F\DATA\BF081217\
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Sample : I4736-06
Misc :
ALS Vial : 32 Sample Multiplier: 1

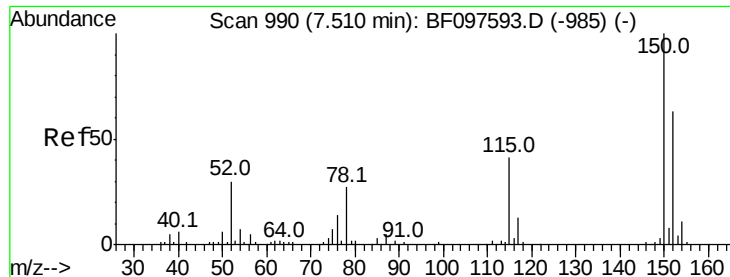
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#1

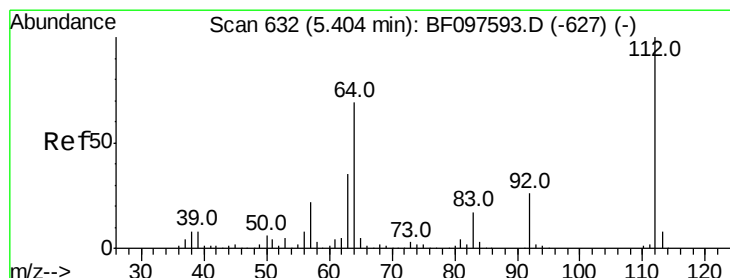
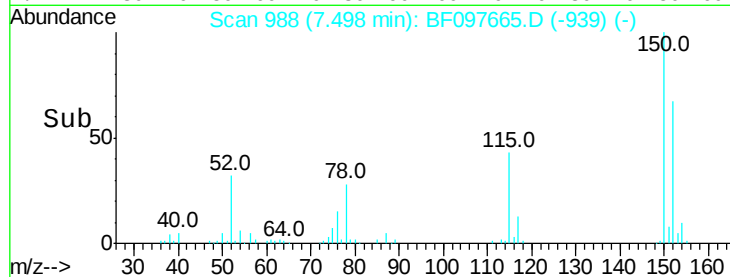
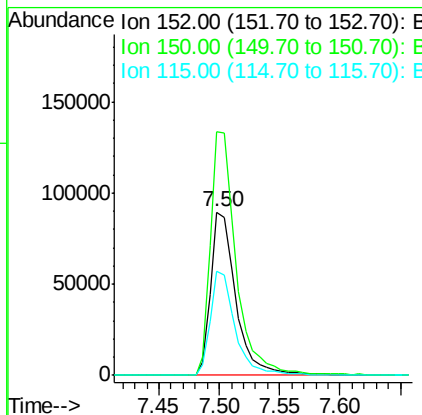
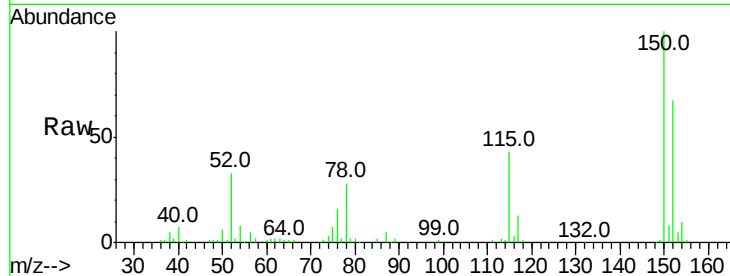
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.50 min Scan# 988
Delta R.T. -0.01 min
Lab File: BF097665.D
Acq: 13 Aug 2017 10:03

Instrument :
BNA_F
ClientSampleId :
SB-37-COMP

Tot Ion	Ratio	Lower	Upper
152	100		
150	149.1	126.2	189.2
115	64.1	52.2	78.2

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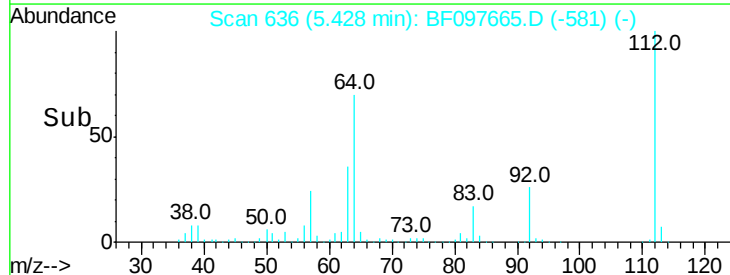
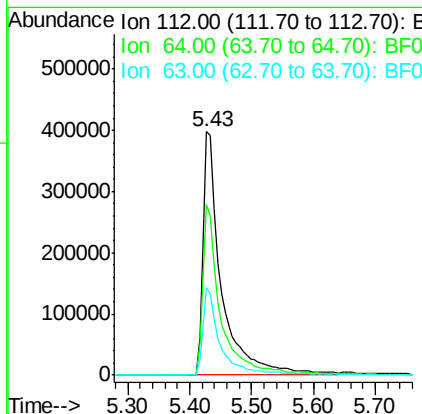
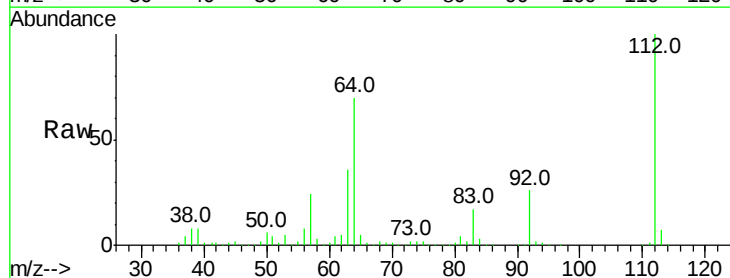
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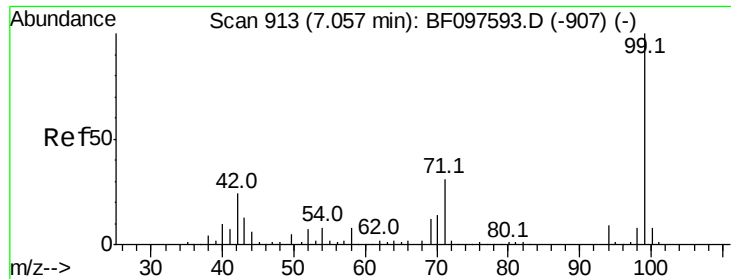


#5

2-Fluorophenol
Concen: 103.924 ng
RT: 5.43 min Scan# 636
Delta R.T. 0.02 min
Lab File: BF097665.D
Acq: 13 Aug 2017 10:03

Tgt Ion	Ratio	Lower	Upper
112	100		
64	70.1	46.0	69.0#
63	35.7	23.4	35.0#





#7

Phenol-d6

Concen: 94.694 ng

RT: 7.07 min Scan# 916

Delta R.T. 0.02 min

Lab File: BF097665.D

Acq: 13 Aug 2017 10:03

Instrument :

BNA_F

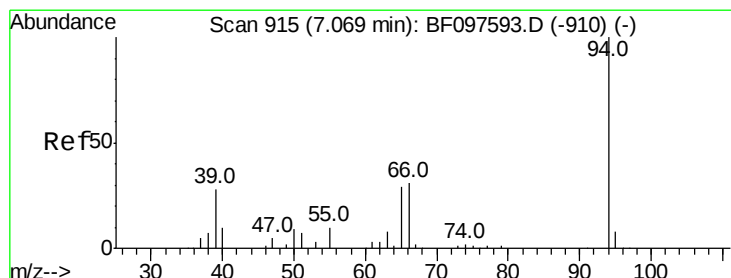
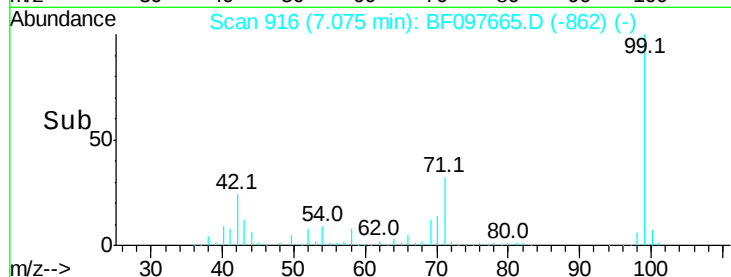
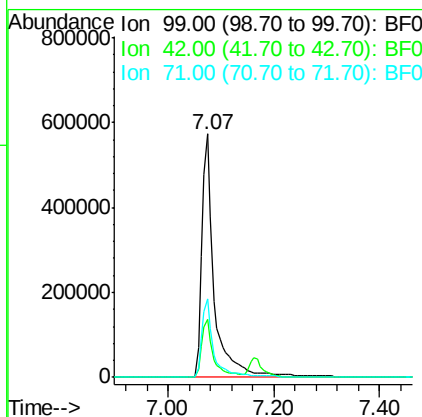
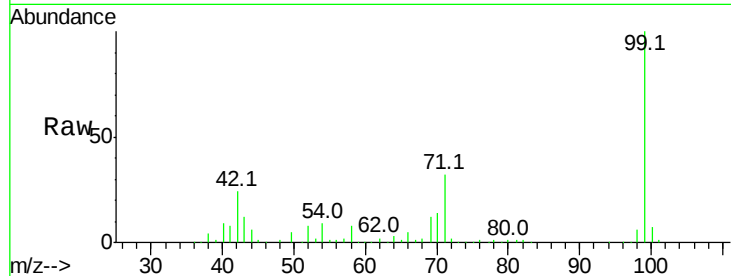
ClientSampleId :

SB-37-COMP

Tot Ion:	99	Resp:	948861
Ion Ratio	Lower	Upper	
99	100		
42	23.9	13.5	20.3#
71	32.2	24.5	36.7

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#10

Phenol

Concen: 3.249 ng

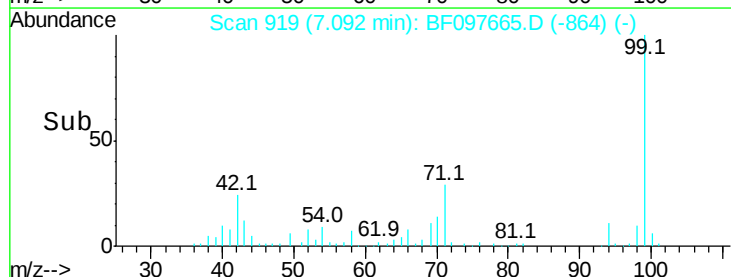
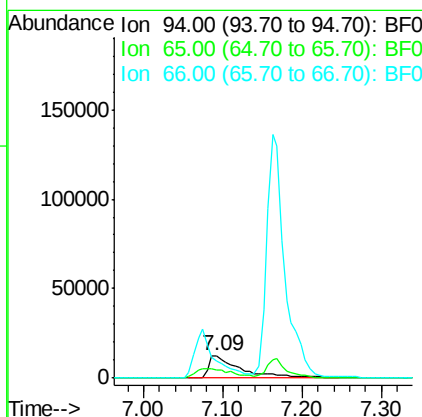
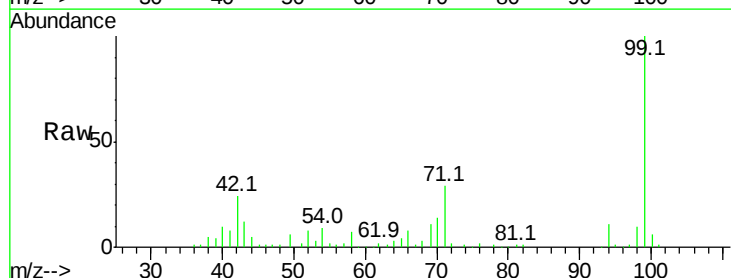
RT: 7.09 min Scan# 919

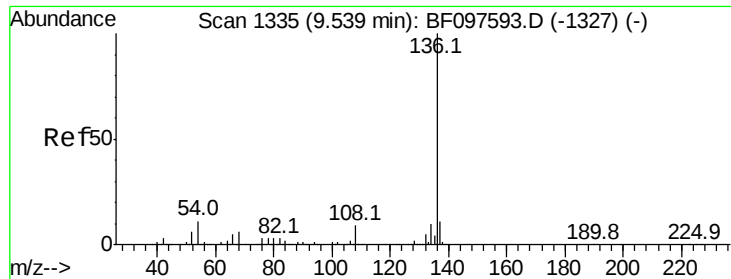
Delta R.T. 0.02 min

Lab File: BF097665.D

Acq: 13 Aug 2017 10:03

Tgt Ion:	94	Resp:	35647
Ion Ratio	Lower	Upper	
94	100		
65	35.8	9.9	49.9
66	75.0	23.1	63.1#





#21

Naphthalene-d8

Concen: 20.000 ng

RT: 9.53 min Scan# 1333

Delta R.T. -0.01 min

Lab File: BF097665.D

Acq: 13 Aug 2017 10:03

Instrument :

BNA_F

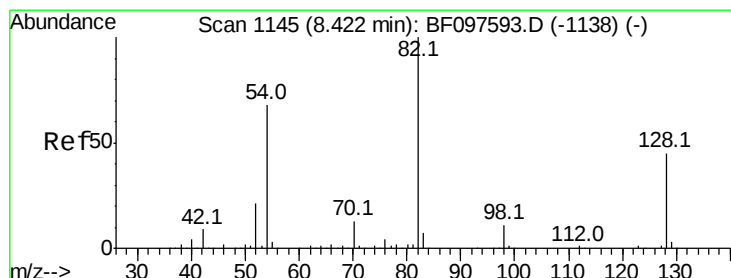
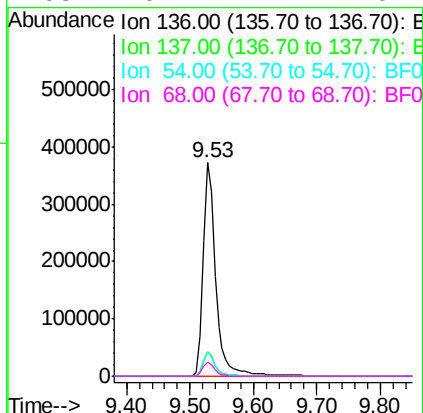
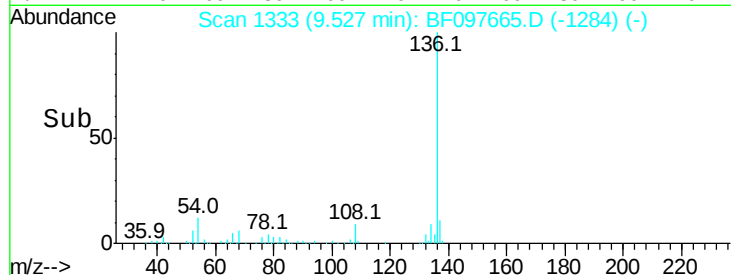
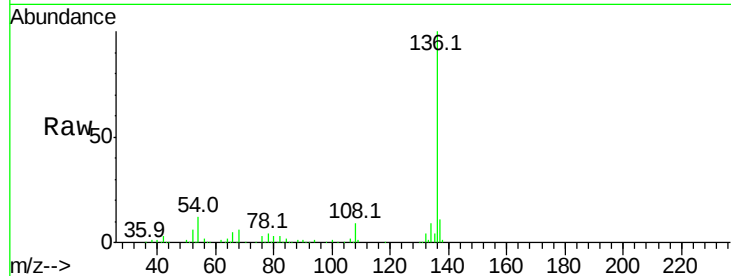
ClientSampled :

SB-37-COMP

Tot Ion	Ratio	Resp	Lower	Upper
136	100			
137	11.2	8.5	12.7	
54	11.6	4.9	7.3#	
68	6.4	4.1	6.1#	

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#23

Nitrobenzene-d5

Concen: 70.588 ng

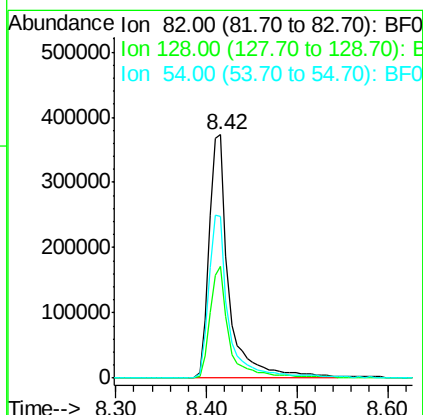
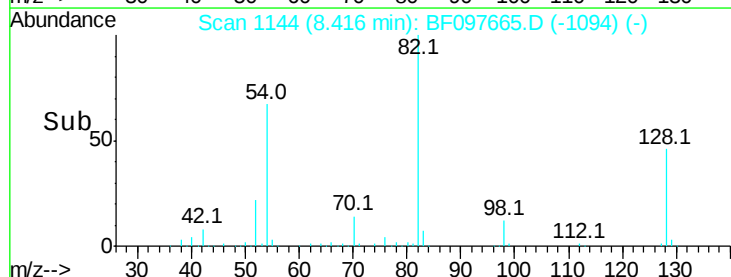
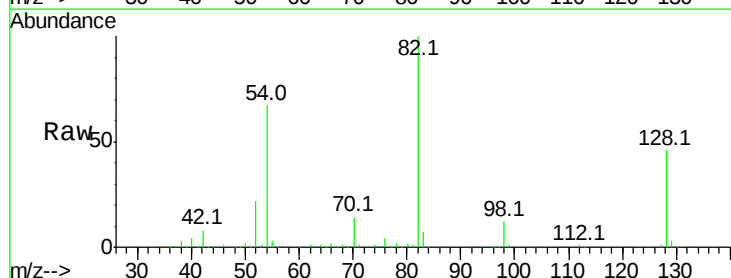
RT: 8.42 min Scan# 1144

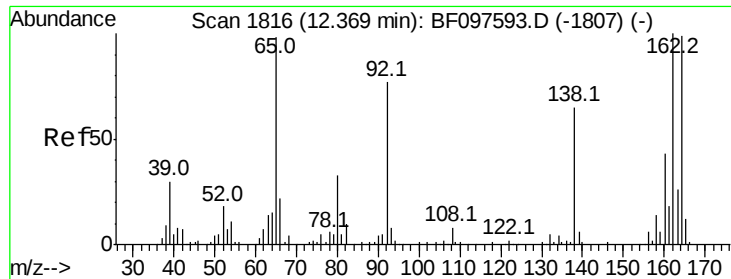
Delta R.T. -0.01 min

Lab File: BF097665.D

Acq: 13 Aug 2017 10:03

Tgt Ion	Ratio	Resp	Lower	Upper
82	100			
128	45.9	34.0	51.0	
54	66.5	42.2	63.2#	





#38

Acenaphthene-d10

Concen: 20.000 ng

RT: 12.35 min Scan# 1813

Delta R.T. -0.02 min

Lab File: BF097665.D

Acq: 13 Aug 2017 10:03

Instrument :

BNA_F

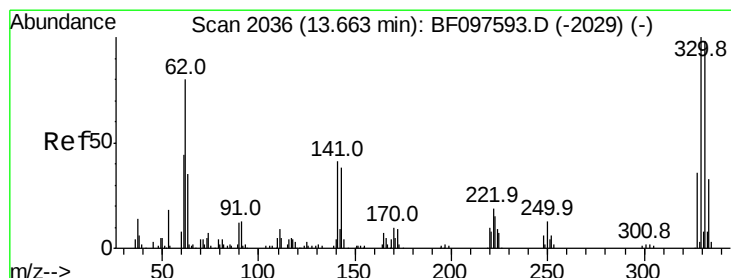
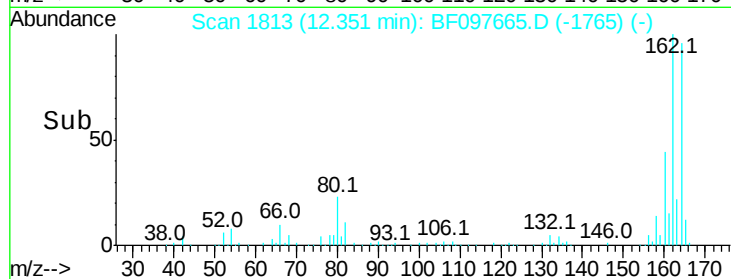
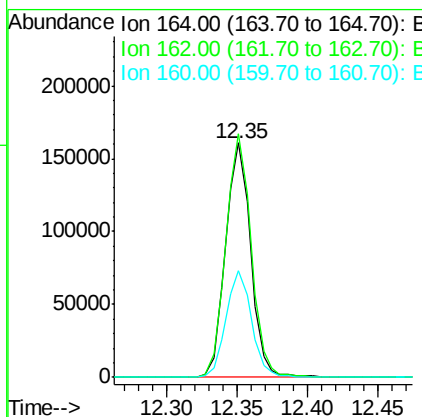
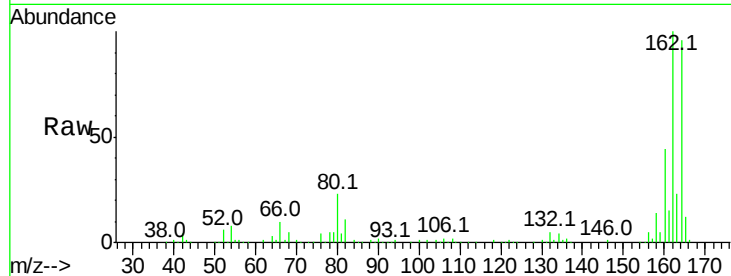
ClientSampleId :

SB-37-COMP

Tot Ion:	164	Resp:	198844
Ion Ratio	Lower	Upper	
164	100		
162	103.8	82.6	123.8
160	45.5	36.2	54.2

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#41

2,4,6-Tribromophenol

Concen: 71.861 ng

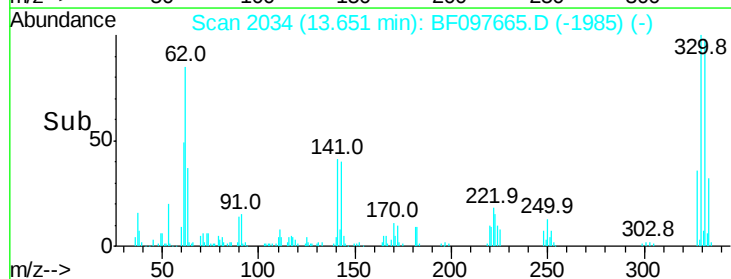
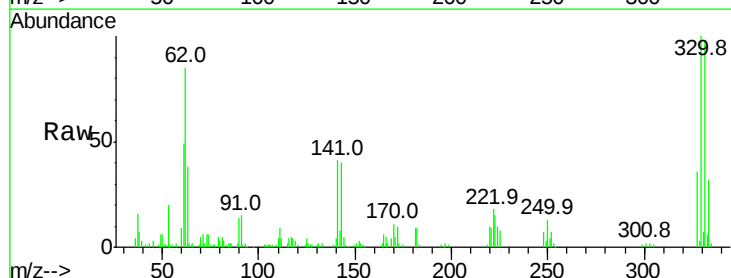
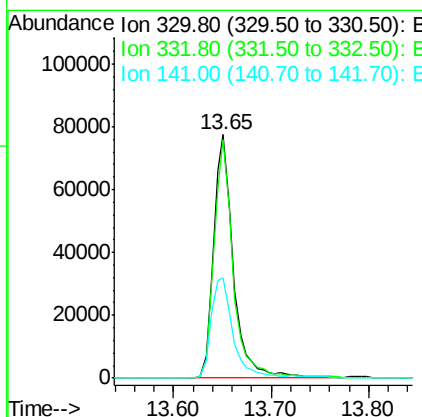
RT: 13.65 min Scan# 2034

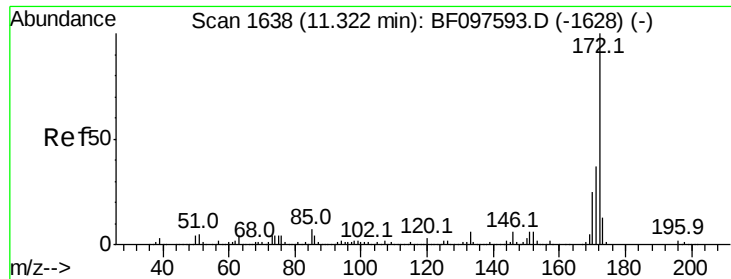
Delta R.T. -0.01 min

Lab File: BF097665.D

Acq: 13 Aug 2017 10:03

Tgt Ion:	330	Resp:	108623
Ion Ratio	Lower	Upper	
330	100		
332	94.6	76.6	115.0
141	45.6	31.4	47.2





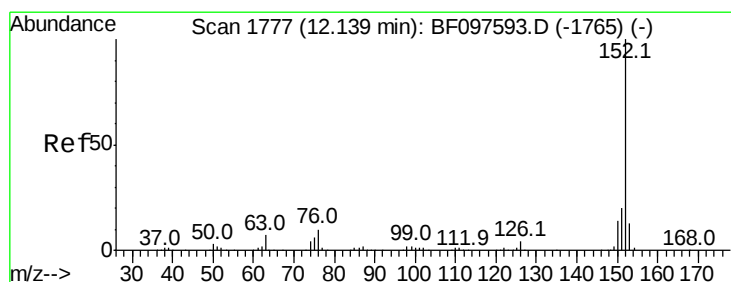
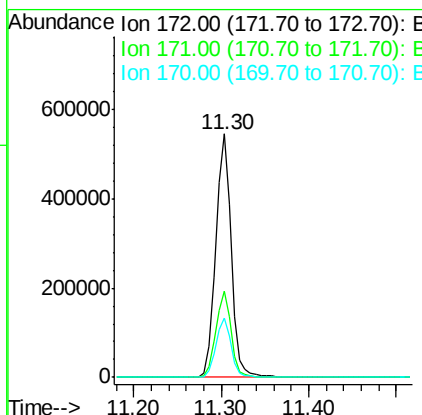
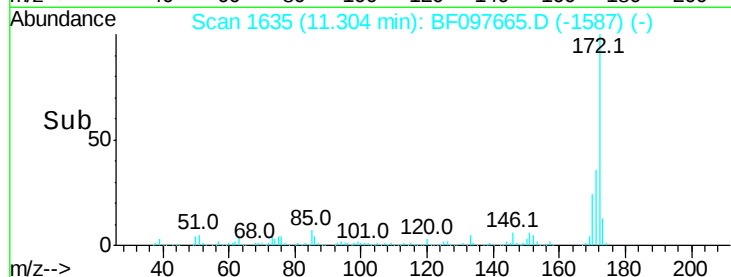
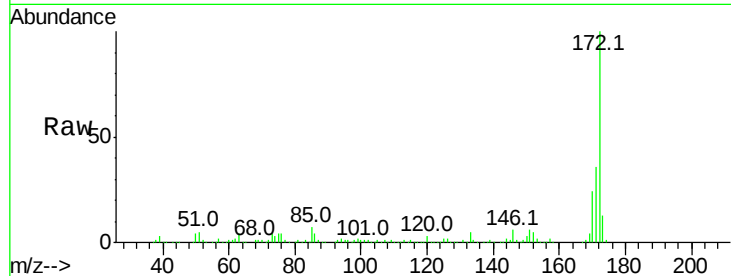
#44
2-Fluorobiphenyl
Concen: 51.072 ng
RT: 11.30 min Scan# 1635
Delta R.T. -0.02 min
Lab File: BF097665.D
Acq: 13 Aug 2017 10:03

Instrument :
BNA_F
ClientSampleId :
SB-37-COMP

Tot Ion	Ratio	Resp	Lower	Upper
172	100	672904		
171	35.5		29.6	44.4
170	24.3		19.8	29.8

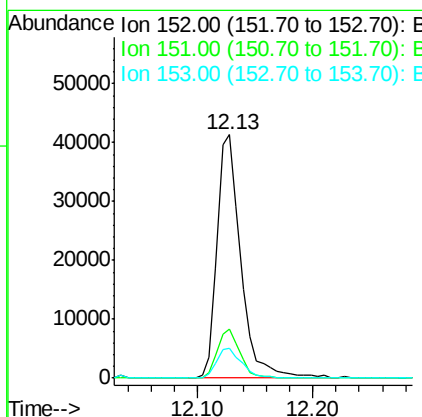
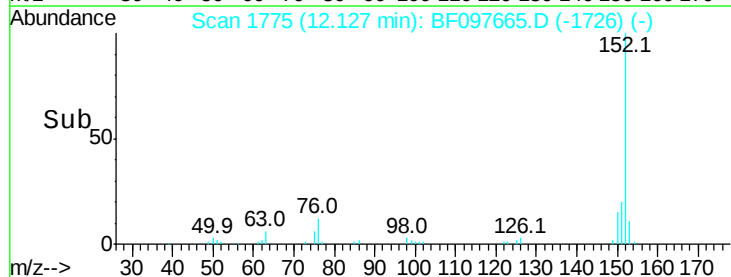
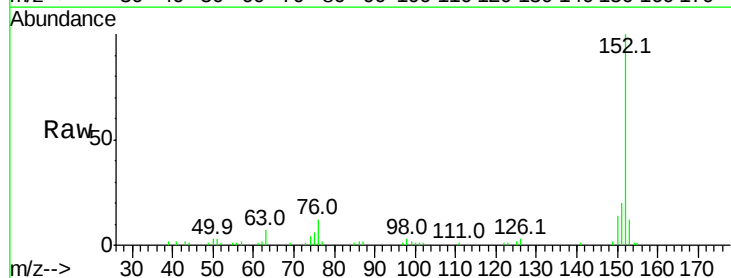
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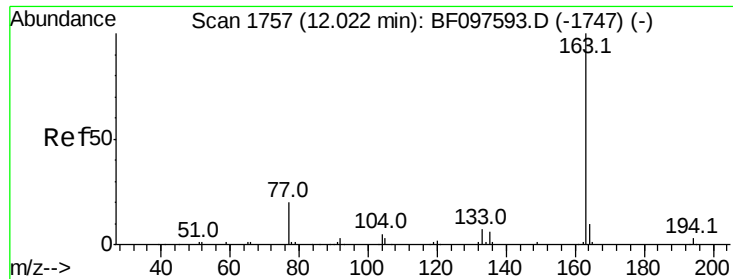
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#48
Acenaphthylene
Concen: 2.831 ng
RT: 12.13 min Scan# 1775
Delta R.T. -0.01 min
Lab File: BF097665.D
Acq: 13 Aug 2017 10:03

Tgt Ion	Ratio	Resp	Lower	Upper
152	100	58942		
151	19.9		16.8	25.2
153	12.5		10.8	16.2





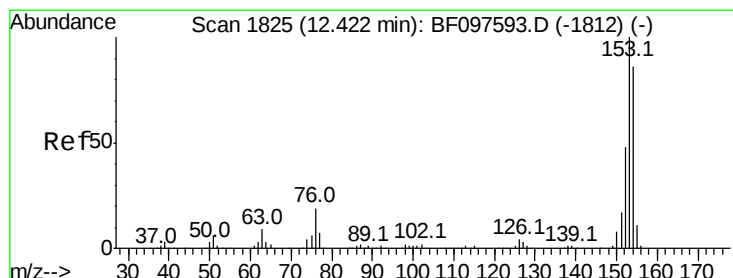
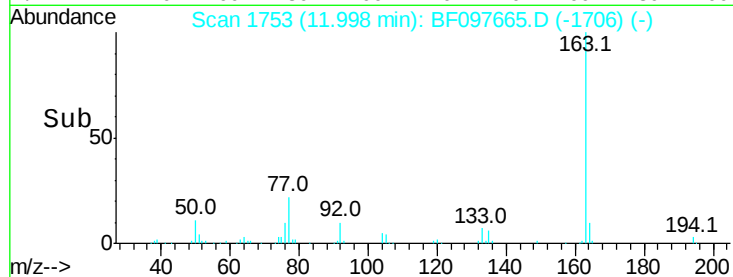
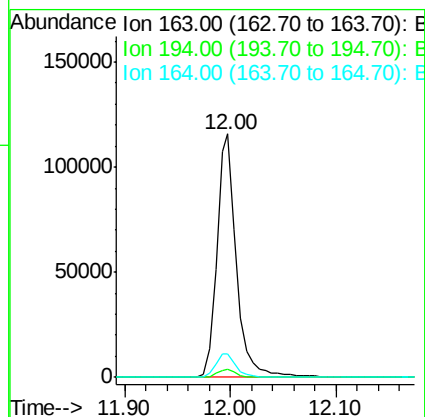
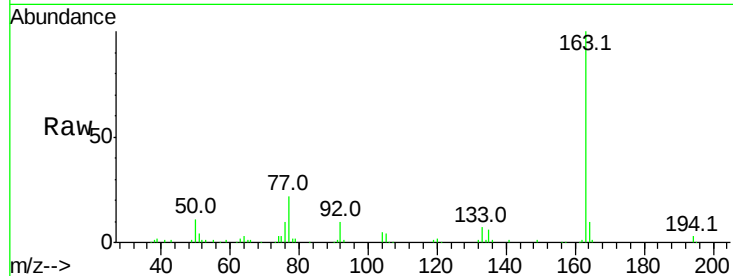
#49
Dimethylphthalate
Concen: 9.797 ng
RT: 12.00 min Scan# 1753
Delta R.T. -0.02 min
Lab File: BF097665.D
Acq: 13 Aug 2017 10:03

Instrument :
BNA_F
ClientSampleId :
SB-37-COMP

Tot Ion	Ratio	Resp	Lower	Upper
163	100	150131		
194	3.4	2.6	4.0	
164	9.6	8.4	12.6	

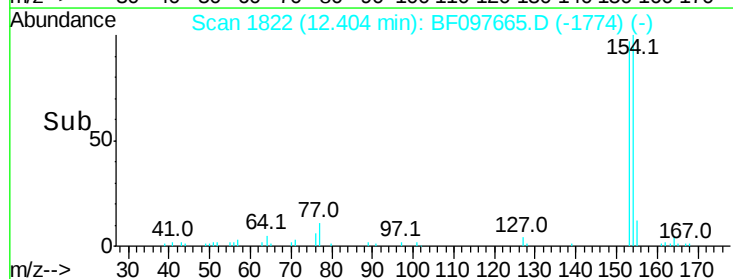
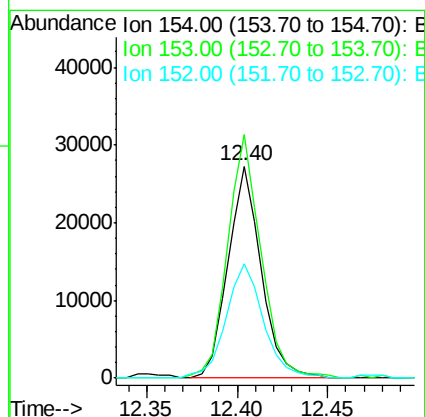
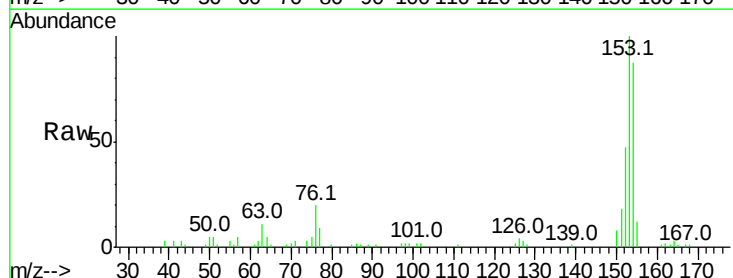
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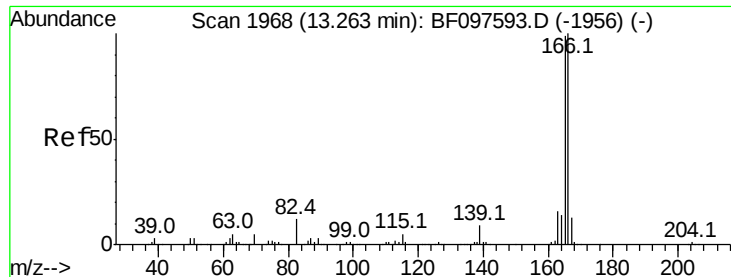
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#51
Acenaphthene
Concen: 2.786 ng
RT: 12.40 min Scan# 1822
Delta R.T. -0.02 min
Lab File: BF097665.D
Acq: 13 Aug 2017 10:03

Tgt Ion	Ratio	Resp	Lower	Upper
154	100	34769		
153	114.8	90.5	135.7	
152	54.1	43.6	65.4	





#57

Fluorene

Concen: 3.202 ng

RT: 13.24 min Scan# 1965

Delta R.T. -0.02 min

Lab File: BF097665.D

Acq: 13 Aug 2017 10:03

Instrument :

BNA_F

ClientSampleId :

SB-37-COMP

Tot Ion:166 Resp: 45998

Ion Ratio Lower Upper

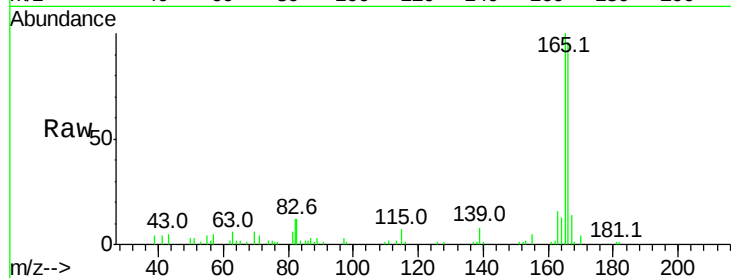
166 100

165 104.2 78.8 118.2

167 14.3 10.6 16.0

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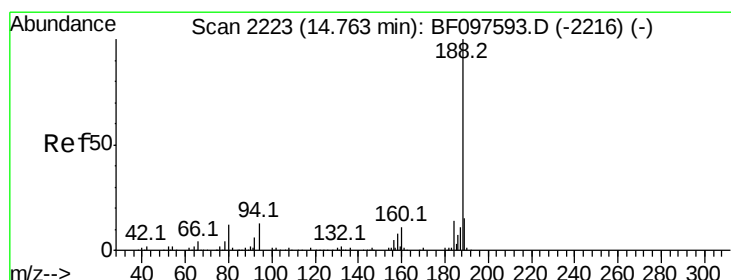
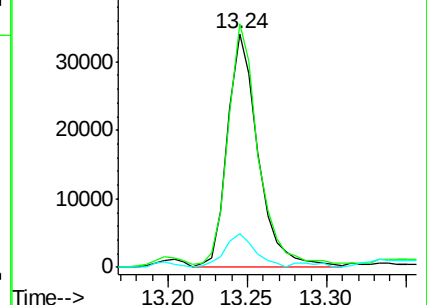
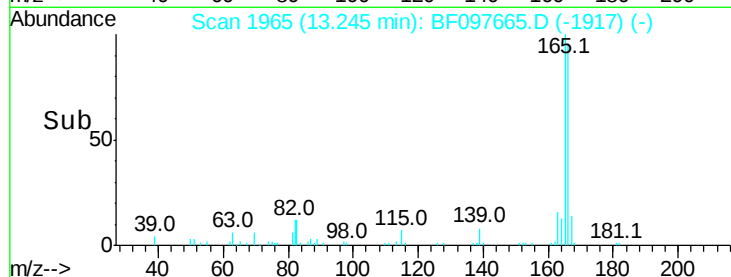
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Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E



#63

Phenanthrene-d10

Concen: 20.000 ng

RT: 14.75 min Scan# 2221

Delta R.T. -0.01 min

Lab File: BF097665.D

Acq: 13 Aug 2017 10:03

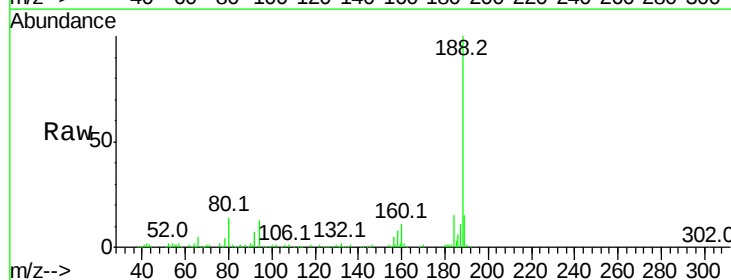
Tgt Ion:188 Resp: 263605

Ion Ratio Lower Upper

188 100

94 13.4 9.4 14.2

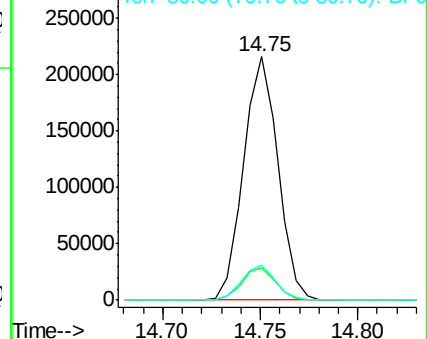
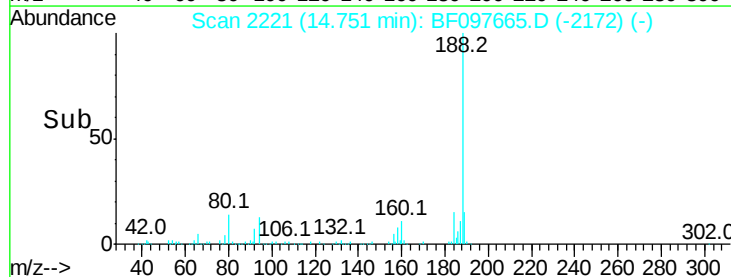
80 14.2 10.2 15.2

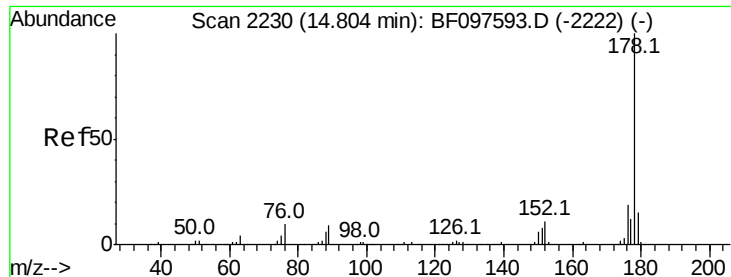


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF0

Ion 80.00 (79.70 to 80.70): BF0





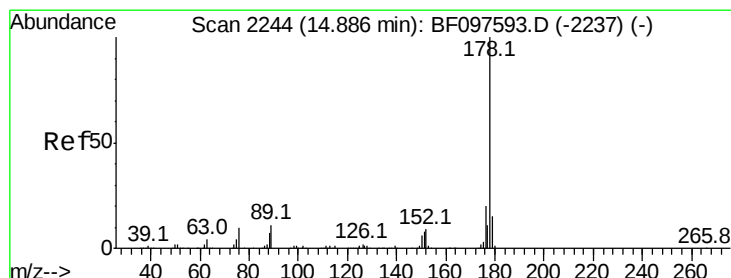
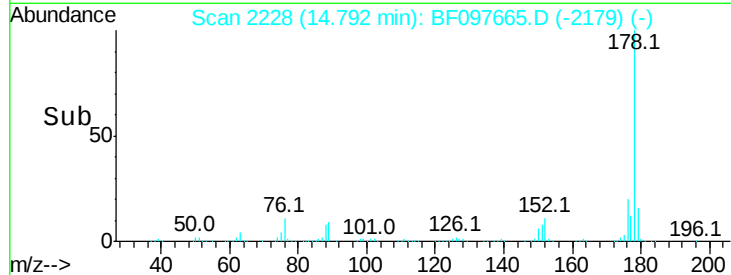
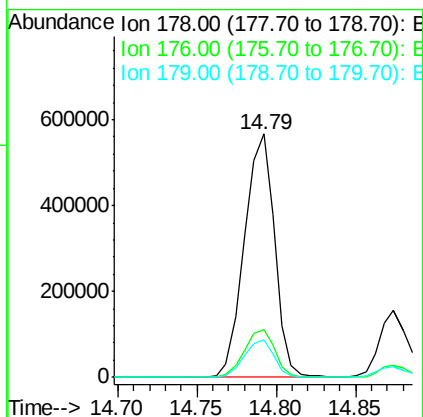
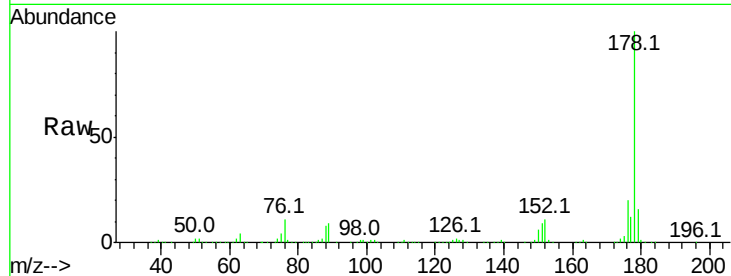
#70
Phenanthrene
Concen: 49.432 ng
RT: 14.79 min Scan# 2228
Delta R.T. -0.01 min
Lab File: BF097665.D
Acq: 13 Aug 2017 10:03

Instrument :
BNA_F
ClientSampleId :
SB-37-COMP

Tot Ion	Ratio	Resp	Lower	Upper
178	100	750500		
176	19.8	16.2	24.4	
179	15.7	12.6	19.0	

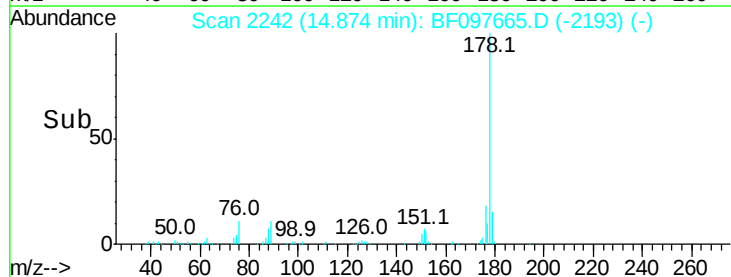
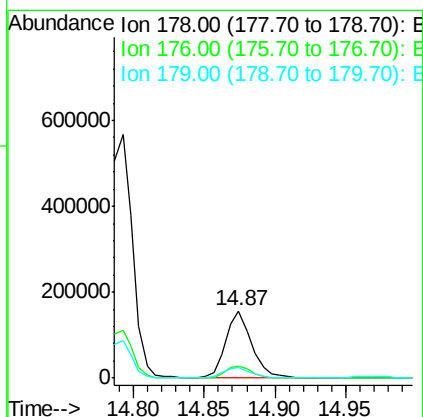
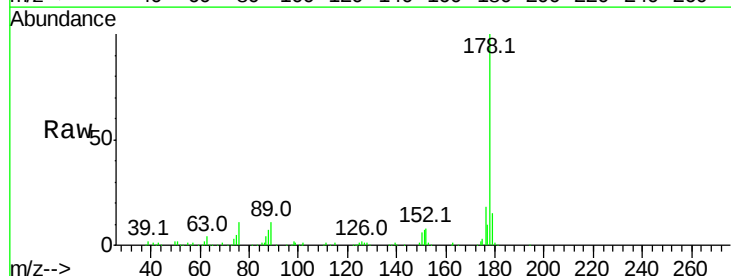
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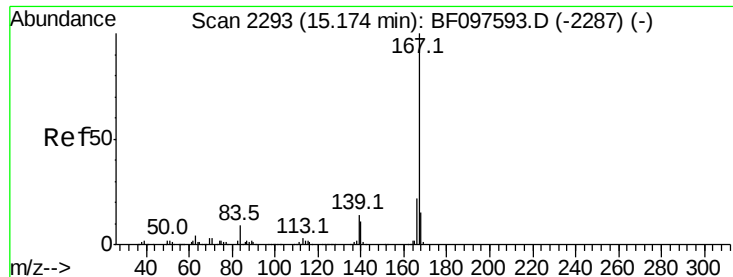
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#71
Anthracene
Concen: 12.842 ng
RT: 14.87 min Scan# 2242
Delta R.T. -0.01 min
Lab File: BF097665.D
Acq: 13 Aug 2017 10:03

Tgt Ion	Ratio	Resp	Lower	Upper
178	100	199485		
176	18.3	15.8	23.8	
179	15.0	12.7	19.1	





#72

Carbazole

Concen: 3.511 ng

RT: 15.17 min Scan# 2293

Delta R.T. -0.00 min

Lab File: BF097665.D

Acq: 13 Aug 2017 10:03

Instrument :

BNA_F

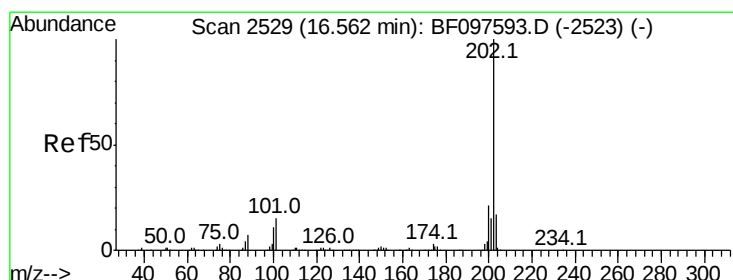
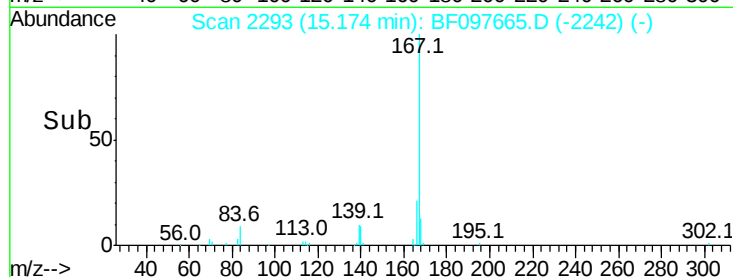
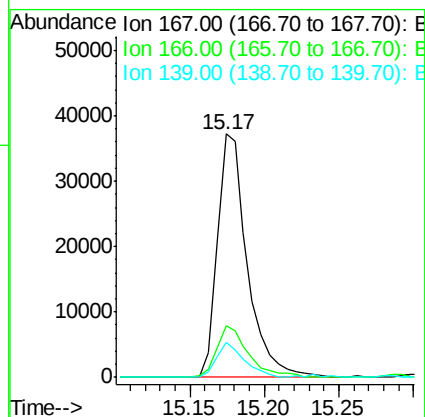
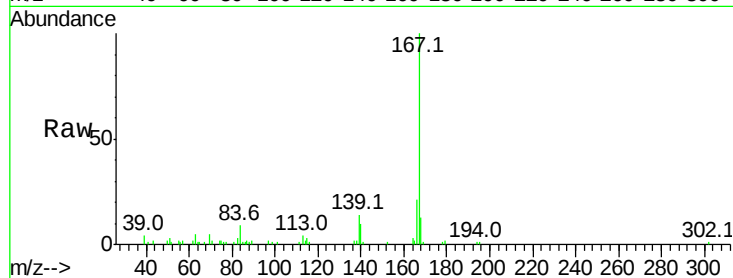
ClientSampleId :

SB-37-COMP

Tot Ion:	167	Resp:	51926
Ion Ratio	Lower	Upper	
167	100		
166	21.0	18.1	27.1
139	14.5	11.7	17.5

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#74

Fluoranthene

Concen: 49.784 ng

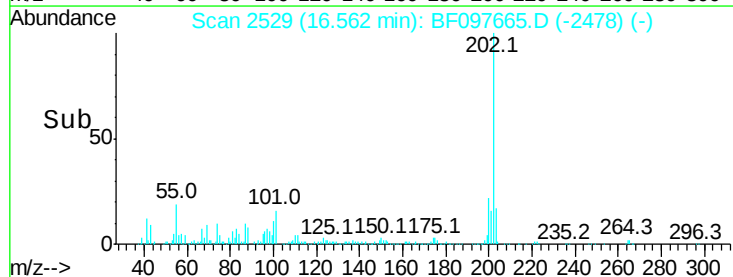
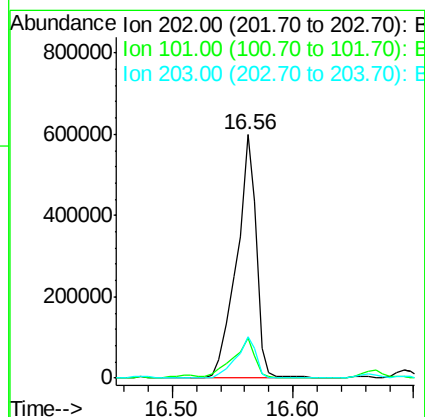
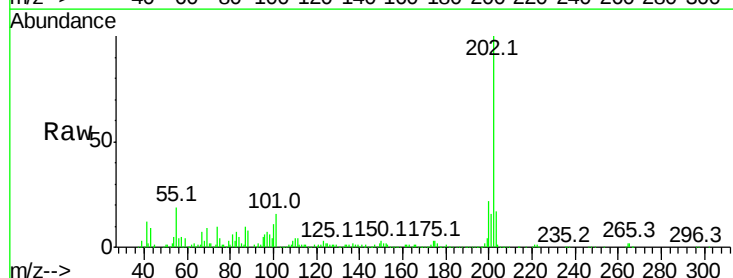
RT: 16.56 min Scan# 2529

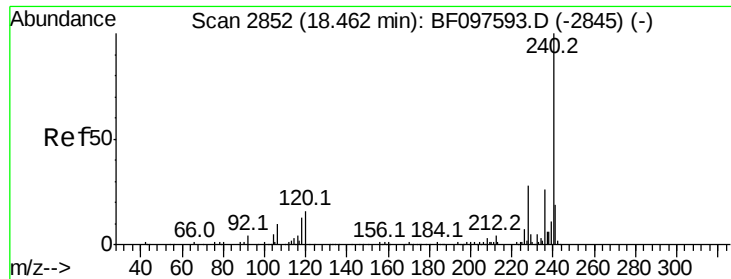
Delta R.T. -0.00 min

Lab File: BF097665.D

Acq: 13 Aug 2017 10:03

Tgt Ion:	202	Resp:	682994
Ion Ratio	Lower	Upper	
202	100		
101	16.2	0.0	33.2
203	17.2	0.0	38.1





#75

Chrysene-d12

Concen: 20.000 ng

RT: 18.45 min Scan# 2850

Delta R.T. -0.01 min

Lab File: BF097665.D

Acq: 13 Aug 2017 10:03

Instrument :

BNA_F

ClientSampleId :

SB-37-COMP

Tot Ion:240 Resp: 187988

Ion Ratio Lower Upper

240 100

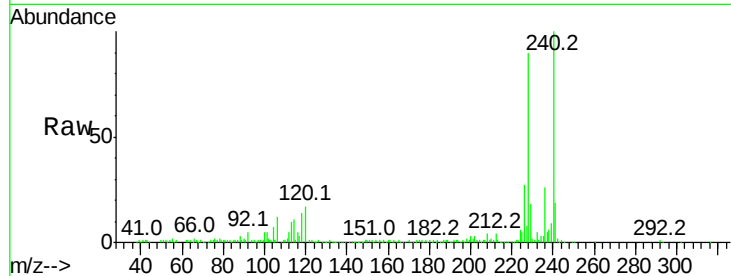
120 17.2 5.8 8.8#

236 26.0 20.5 30.7

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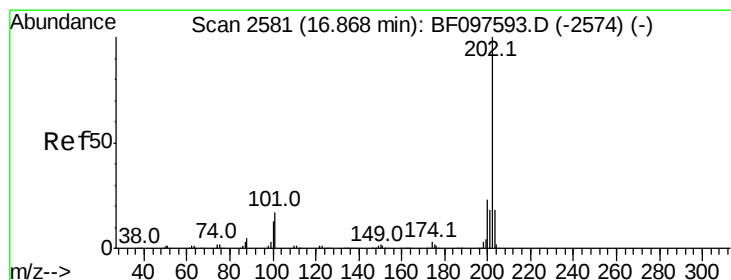
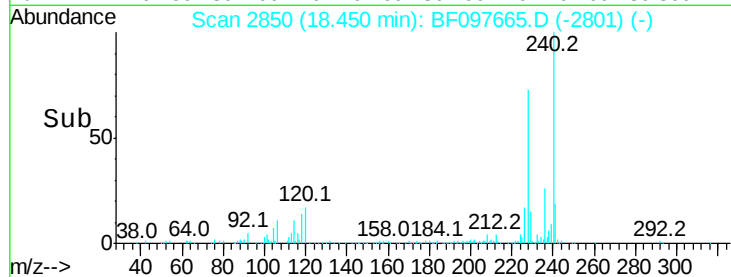
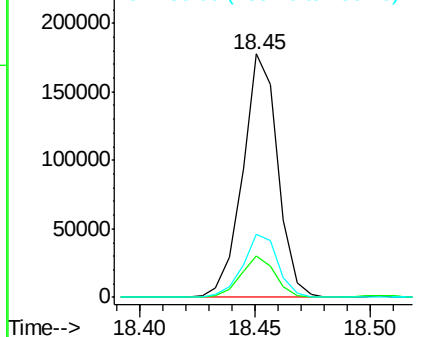
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Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E



#77

Pyrene

Concen: 56.440 ng

RT: 16.86 min Scan# 2580

Delta R.T. -0.01 min

Lab File: BF097665.D

Acq: 13 Aug 2017 10:03

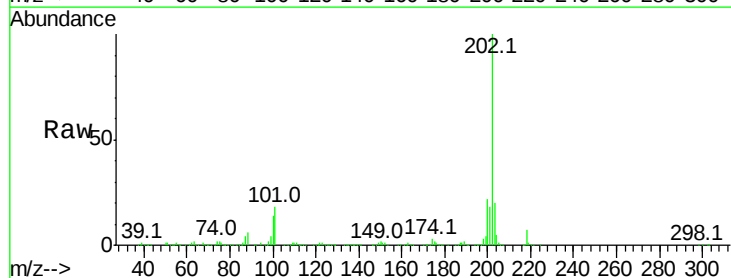
Tgt Ion:202 Resp: 877399

Ion Ratio Lower Upper

202 100

200 22.3 17.6 26.4

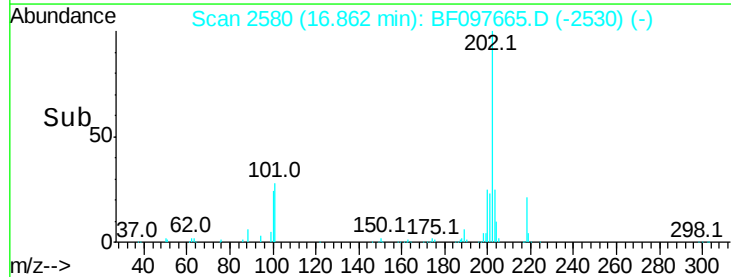
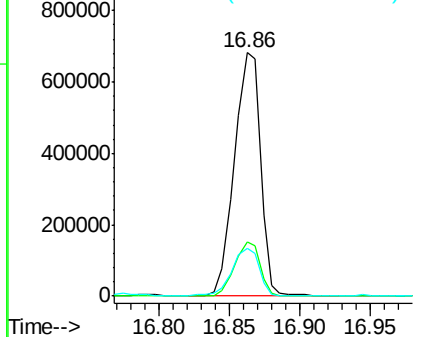
203 19.9 14.4 21.6

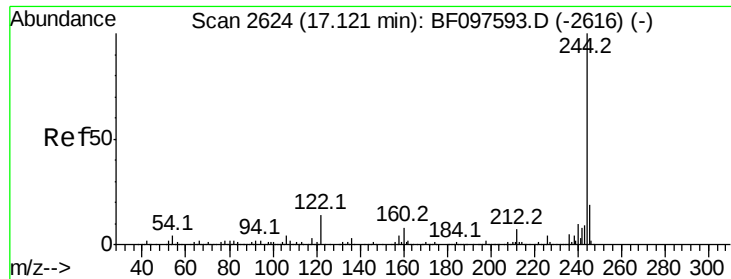


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#78

Terphenyl-d14

Concen: 38.098 ng

RT: 17.10 min Scan# 2621

Delta R.T. -0.02 min

Lab File: BF097665.D

Acq: 13 Aug 2017 10:03

Instrument :

BNA_F

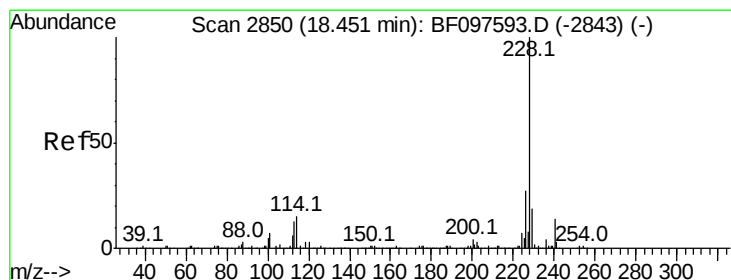
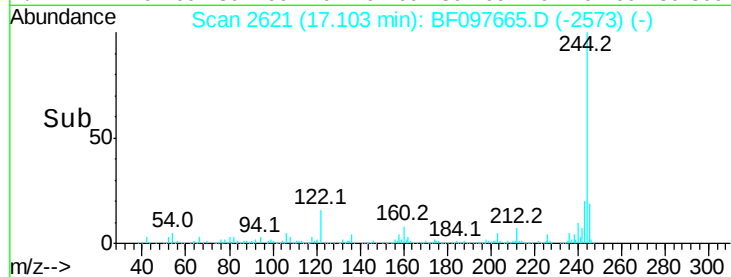
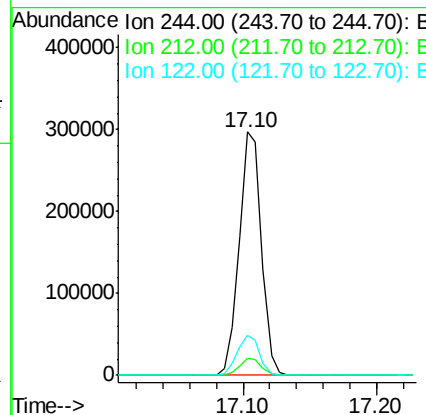
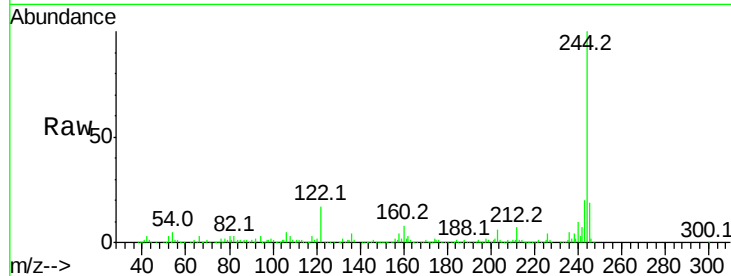
ClientSampleId :

SB-37-COMP

Tot Ion	Ratio	Resp	Lower	Upper
244	100			
212	7.0	6.0	9.0	
122	16.6	10.3	15.5	

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#80

Benzo(a)anthracene

Concen: 39.973 ng

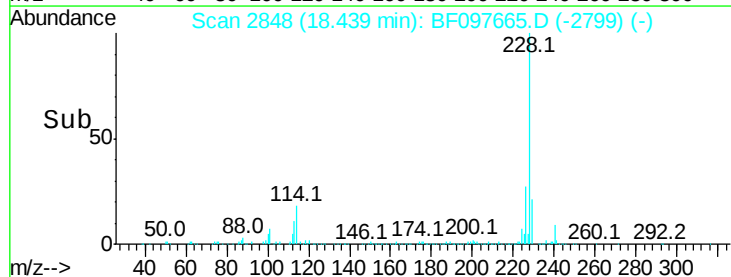
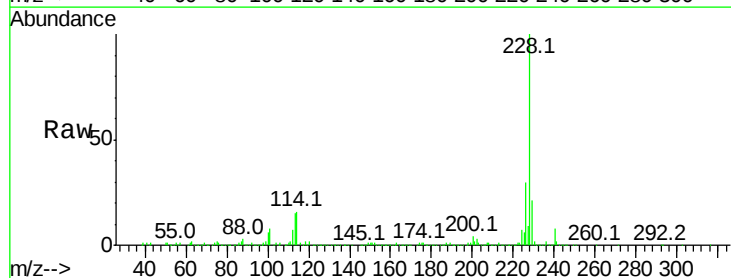
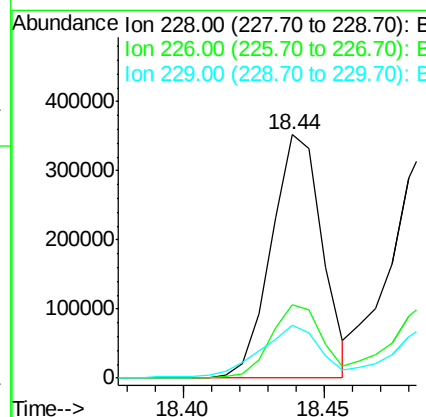
RT: 18.44 min Scan# 2848

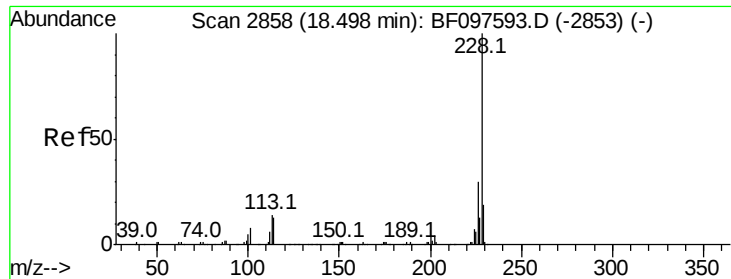
Delta R.T. -0.01 min

Lab File: BF097665.D

Acq: 13 Aug 2017 10:03

Tgt Ion	Ratio	Resp	Lower	Upper
228	100			
226	30.3	22.6	33.8	
229	21.5	16.3	24.5	





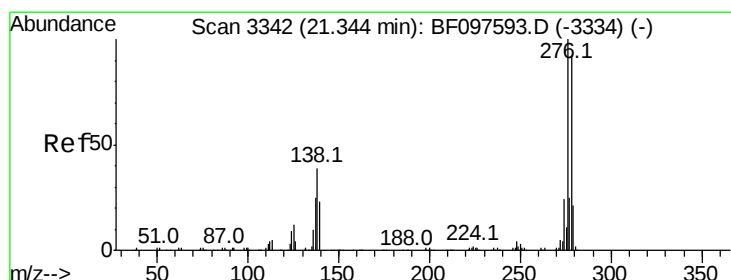
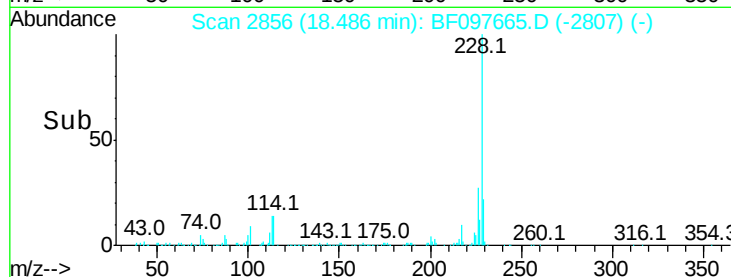
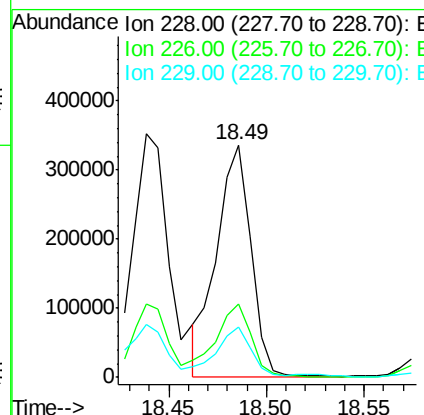
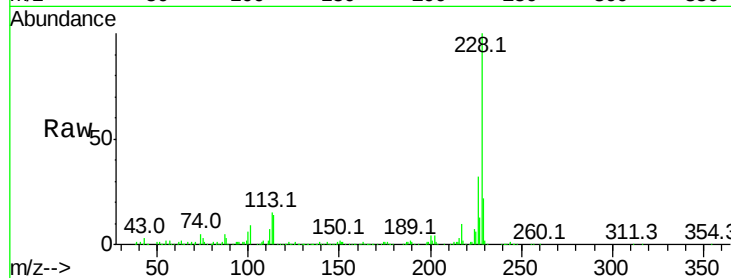
#82
Chrysene
Concen: 37.731 ng
RT: 18.49 min Scan# 2856
Delta R.T. -0.01 min
Lab File: BF097665.D
Acq: 13 Aug 2017 10:03

Instrument :
BNA_F
ClientSampleId :
SB-37-COMP

Tot Ion	Ratio	Lower	Upper
228	100		
226	31.5	24.9	37.3
229	21.6	15.8	23.6

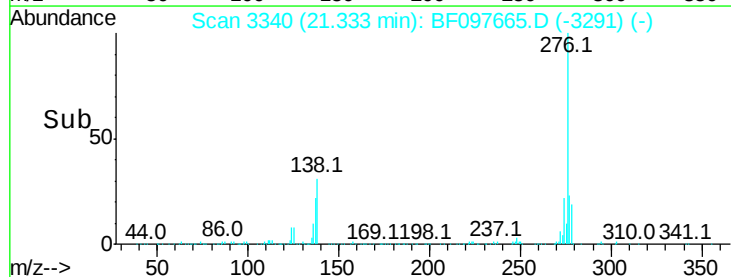
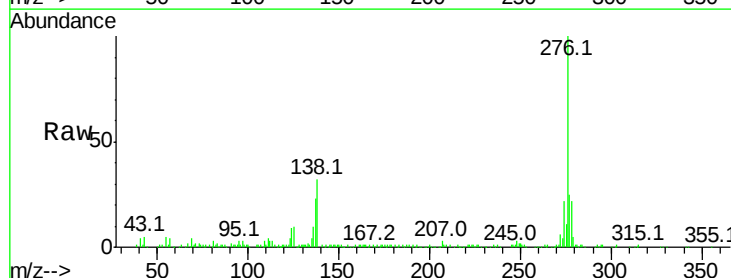
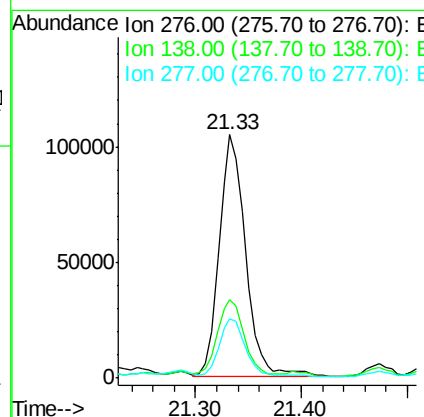
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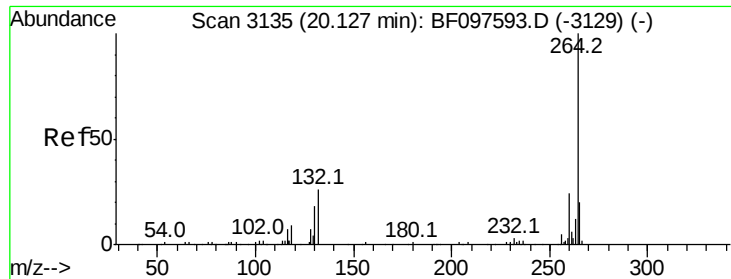
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#85
Indeno(1,2,3-cd)pyrene
Concen: 21.383 ng
RT: 21.33 min Scan# 3340
Delta R.T. -0.01 min
Lab File: BF097665.D
Acq: 13 Aug 2017 10:03

Tgt Ion	Ratio	Lower	Upper
276	100		
138	32.6	27.8	41.6
277	22.5	20.2	30.4





#86

Pervlene-d12

Concen: 20.000 ng

RT: 20.12 min Scan# 3134

Delta R.T. -0.01 min

Lab File: BF097665.D

Acq: 13 Aug 2017 10:03

Instrument :

BNA_F

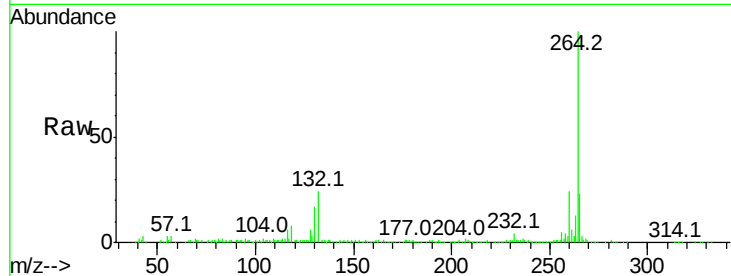
ClientSampleId :

SB-37-COMP

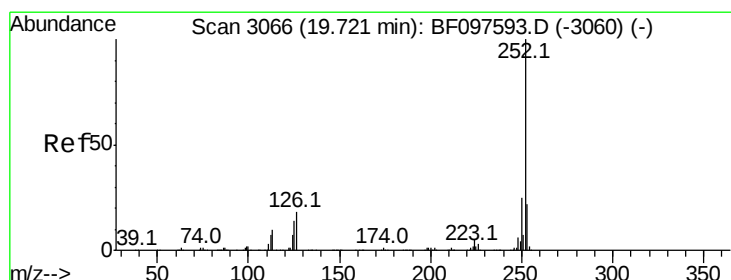
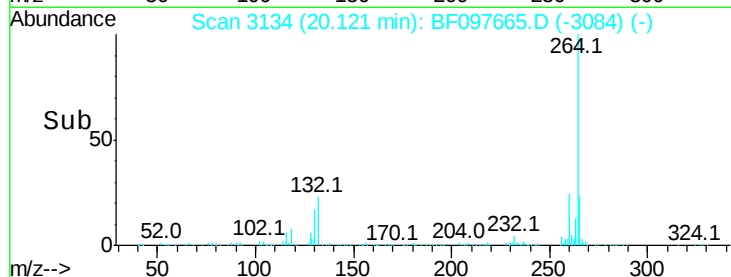
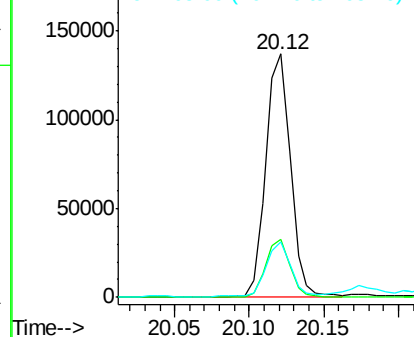
Tot Ion:	264	Resp:	156917
Ion Ratio	Lower	Upper	
264	100		
260	24.0	19.5	29.3
265	22.9	17.2	25.8

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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: 51.270 ng m

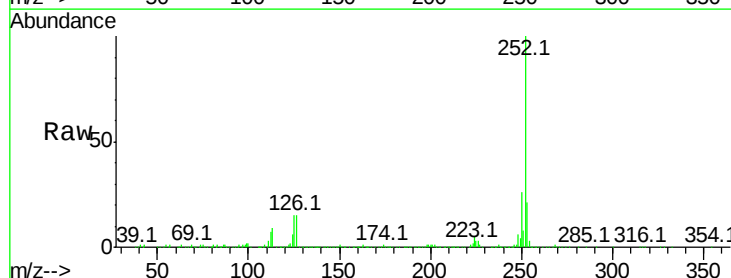
RT: 19.72 min Scan# 3066

Delta R.T. -0.00 min

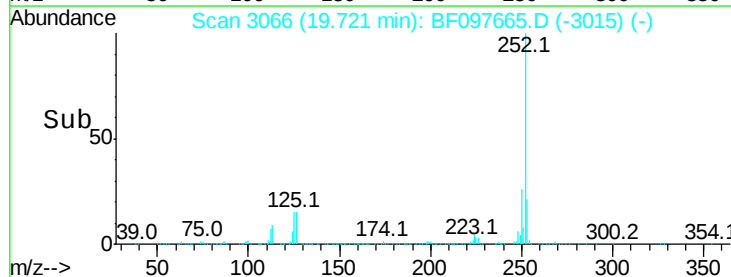
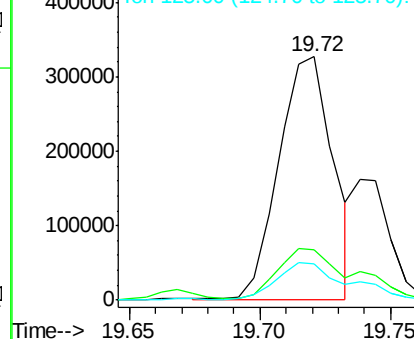
Lab File: BF097665.D

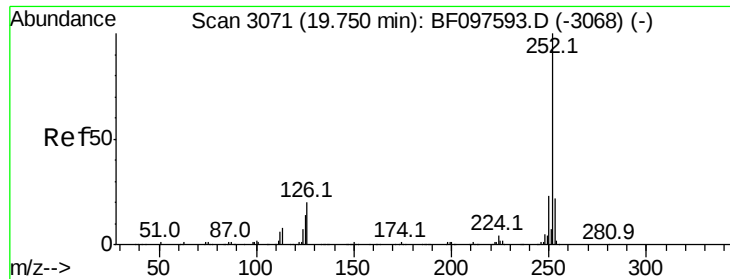
Acq: 13 Aug 2017 10:03

Tgt Ion:	252	Resp:	483095
Ion Ratio	Lower	Upper	
252	100		
253	20.8	18.1	27.1
125	14.7	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





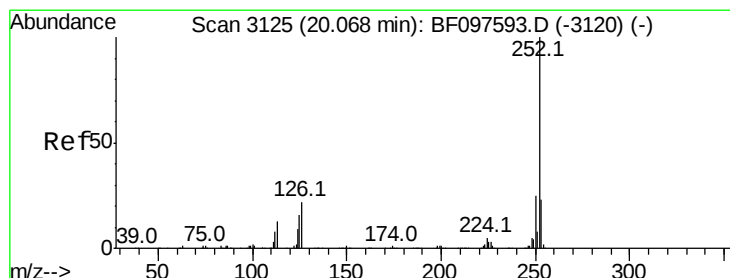
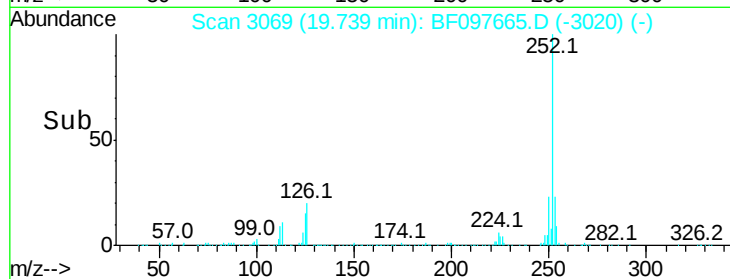
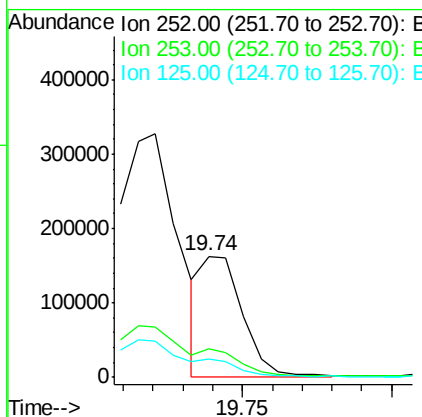
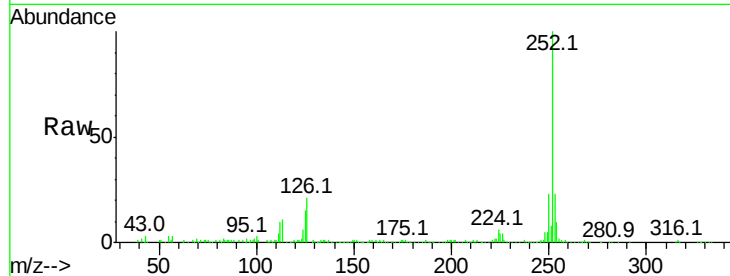
#88
Benzo(k)fluoranthene
Concen: 16.402 ng
RT: 19.74 min Scan# 3069
Delta R.T. -0.01 min
Lab File: BF097665.D
Acq: 13 Aug 2017 10:03

Instrument :
BNA_F
ClientSampleId :
SB-37-COMP

Tot Ion	Ratio	Resp	Lower	Upper
252	100	155653		
253	23.2	18.4	27.6	
125	15.1	13.1	19.7	

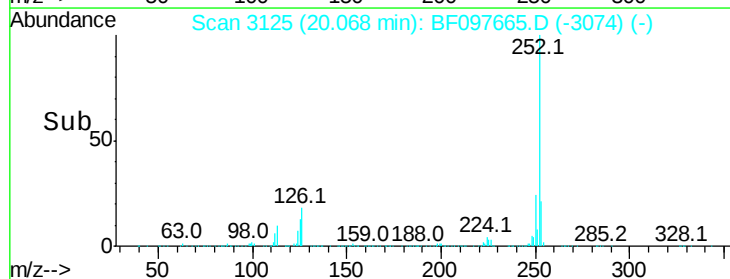
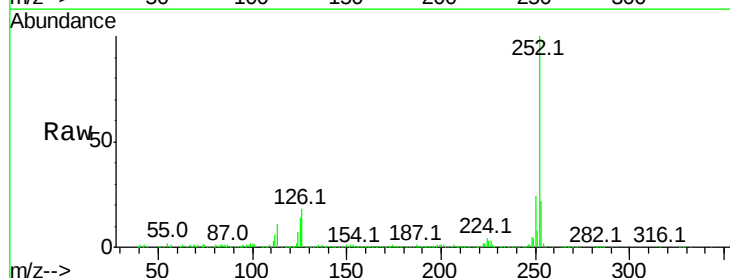
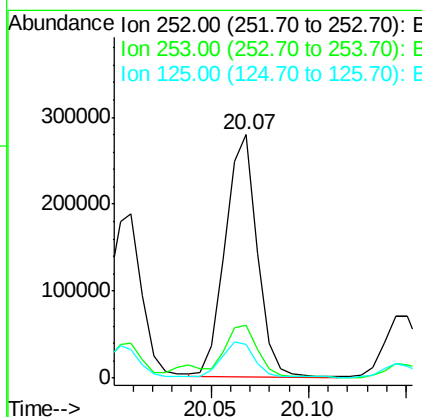
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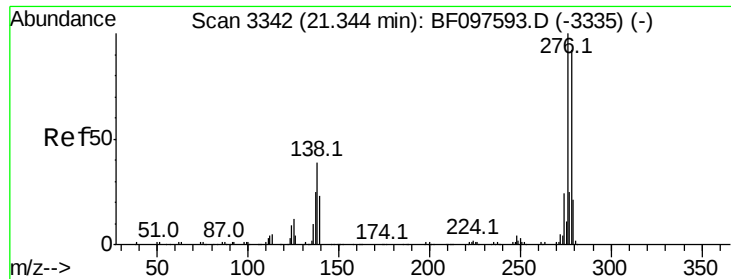
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#89
Benzo(a)pyrene
Concen: 36.795 ng
RT: 20.07 min Scan# 3125
Delta R.T. -0.00 min
Lab File: BF097665.D
Acq: 13 Aug 2017 10:03

Tgt Ion	Ratio	Resp	Lower	Upper
252	100	318225		
253	21.7	17.5	26.3	
125	13.6	11.0	16.4	





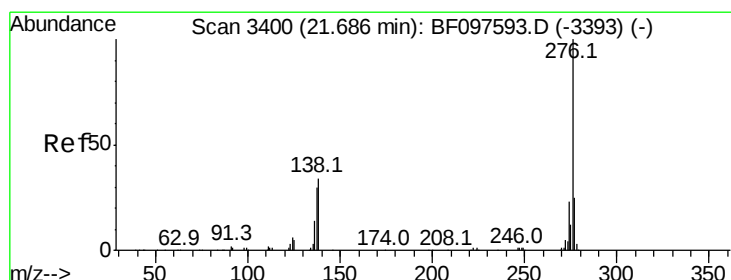
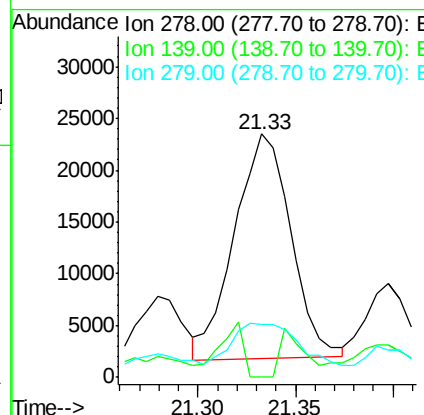
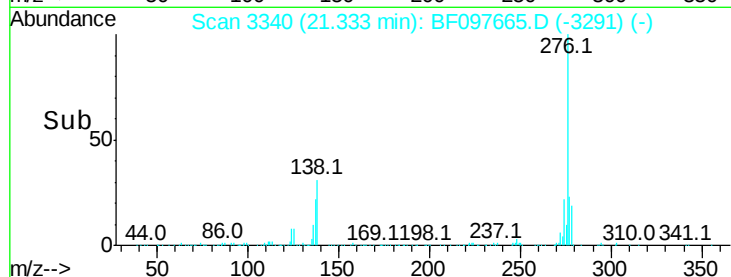
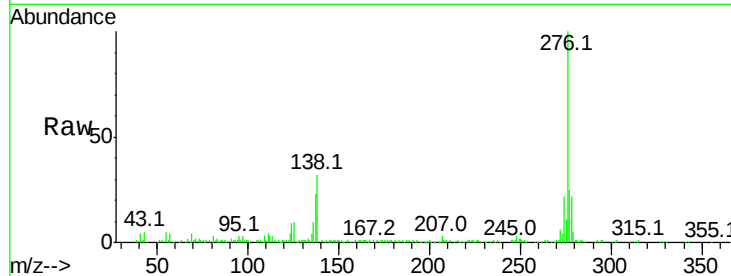
#90
Dibenzo(a,h)anthracene
Concen: 7.036 ng
RT: 21.33 min Scan# 3340
Delta R.T. -0.01 min
Lab File: BF097665.D
Acq: 13 Aug 2017 10:03

Instrument :
BNA_F
ClientSampleId :
SB-37-COMP

Tot Ion	Ratio	Lower	Upper
278	100		
139	0.0	16.6	24.8#
279	21.7	19.3	28.9

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#91
Benzo(g,h,i)perylene
Concen: 23.871 ng
RT: 21.69 min Scan# 3400
Delta R.T. 0.00 min
Lab File: BF097665.D
Acq: 13 Aug 2017 10:03

Tgt Ion	Ratio	Lower	Upper
276	100		
277	24.3	18.6	28.0
138	30.9	25.4	38.0

