

Data Path : Z:\HPCHEM1\BNA F\DATA\BF080217\
 Data File : BF097301.D
 Acq On : 3 Aug 2017 5:58
 Operator : SJ/JU
 Sample : I4471-22DL 20X
 Misc :
 ALS Vial : 30 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 E2-L6-ESWDL

Manual Integrations
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Quant Time: Aug 03 11:52:54 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF072517.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Jul 25 14:11:51 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.45	152	88609	20.00	ng	-0.05
21) Naphthalene-d8	7.73	136	388594	20.00	ng	-0.05
38) Acenaphthene-d10	9.47	164	191816	20.00	ng	-0.06
63) Phenanthrene-d10	10.95	188	292252	20.00	ng	-0.05
75) Chrysene-d12	13.57	240	176562	20.00	ng	-0.05
86) Perylene-d12	14.92	264	164456	20.00	ng	-0.06
System Monitoring Compounds						
5) 2-Fluorophenol	5.06	112	36427	6.20	ng	-0.04
7) Phenol-d6	6.13	99	48216	7.19	ng	-0.04
23) Nitrobenzene-d5	7.02	82	32385	4.89	ng	-0.05
41) 2,4,6-Tribromophenol	10.27	330	9156	6.04	ng	-0.05
44) 2-Fluorobiphenyl	8.81	172	53356	4.72	ng	-0.06
78) Terphenyl-d14	12.53	244	34462	3.98	ng	-0.06
Target Compounds						
51) Acenaphthene	9.51	154	86046	7.894	ng	Qvalue 97
54) Dibenzofuran	9.68	168	64625	4.451	ng	99
57) Fluorene	10.02	166	105969	9.711	ng	98
70) Phenanthrene	10.98	178	1016628	64.923	ng	100
71) Anthracene	11.03	178	307113	19.149	ng	98
72) Carbazole	11.19	167	60302	3.823	ng	99
74) Fluoranthene	12.16	202	877030	57.171	ng	99
77) Pyrene	12.39	202	869935	60.184	ng	99
80) Benzo(a)anthracene	13.56	228	315609	27.626	ng	99
82) Chrysene	13.60	228	269524	24.161	ng	98
85) Indeno(1,2,3-cd)pyrene	16.12	276	103261	10.795	ng	99
87) Benzo(b)fluoranthene	14.56	252	288474m	29.181	ng	
88) Benzo(k)fluoranthene	14.59	252	69334m	7.360	ng	
89) Benzo(a)pyrene	14.86	252	231955	25.637	ng	# 96
90) Dibenzo(a,h)anthracene	16.12	278	28371m	3.824	ng	
91) Benzo(g,h,i)perylene	16.47	276	116230	14.938	ng	98

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

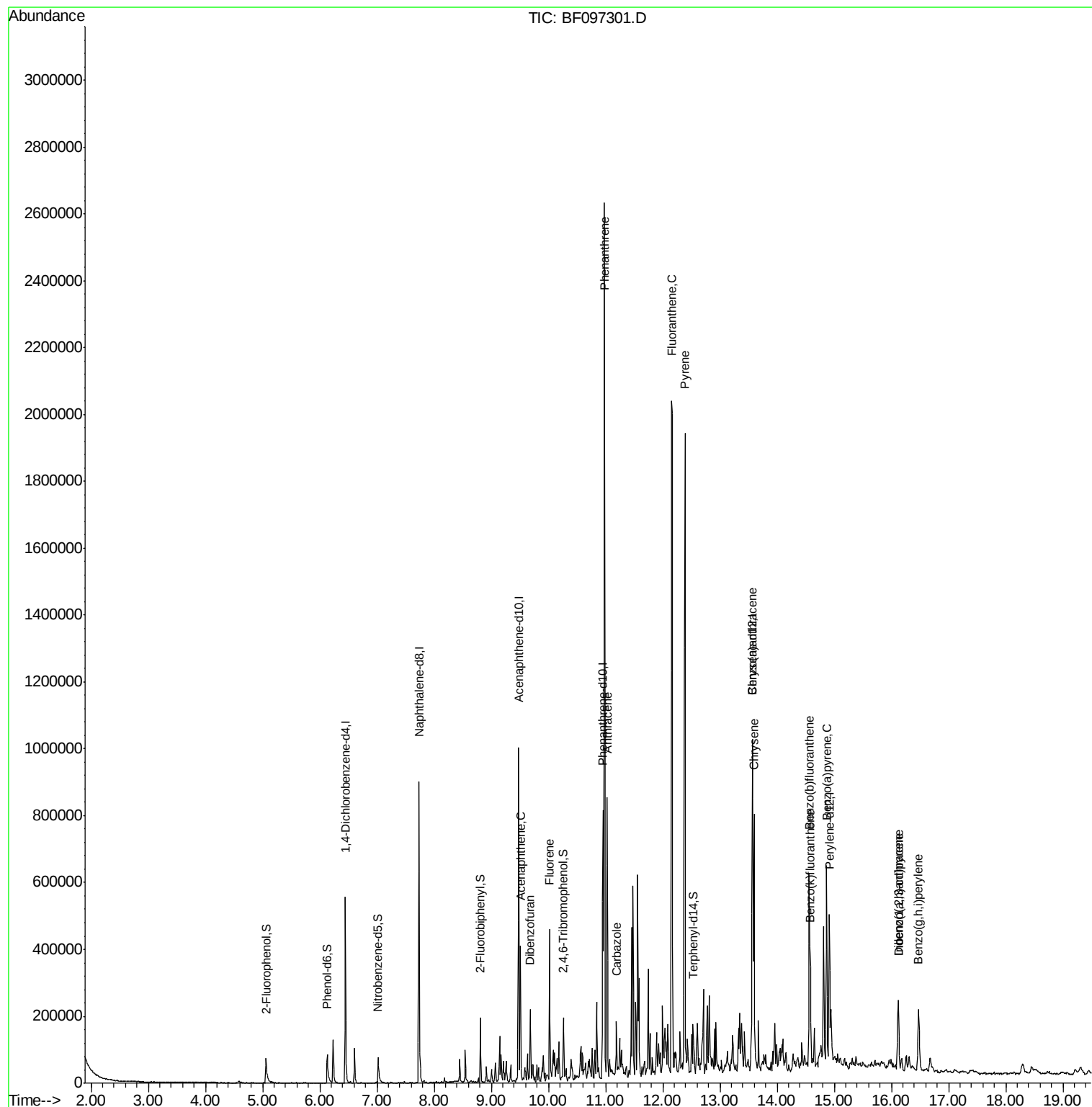
Data Path : Z:\HPCHEM1\BNA F\DATA\BF080217\
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ALS Vial : 30 Sample Multiplier: 1

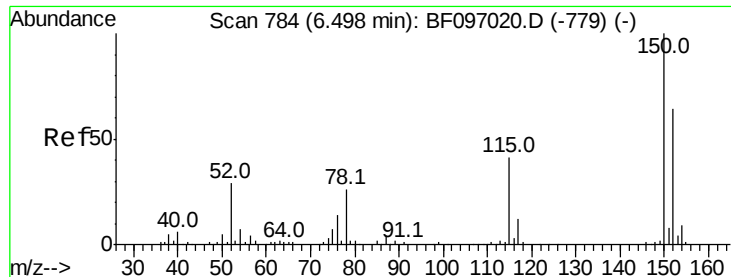
Instrument :
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#1

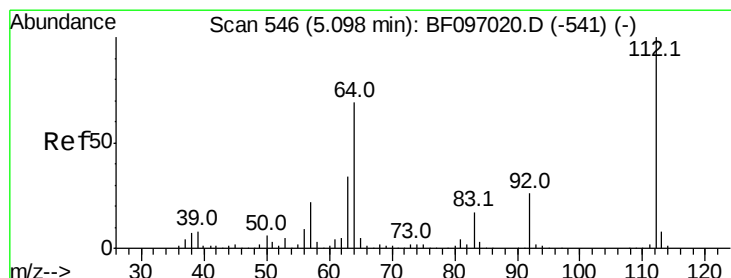
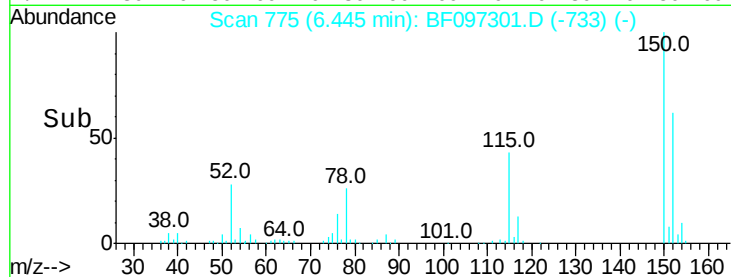
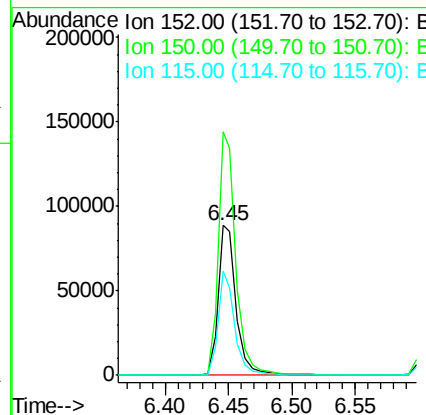
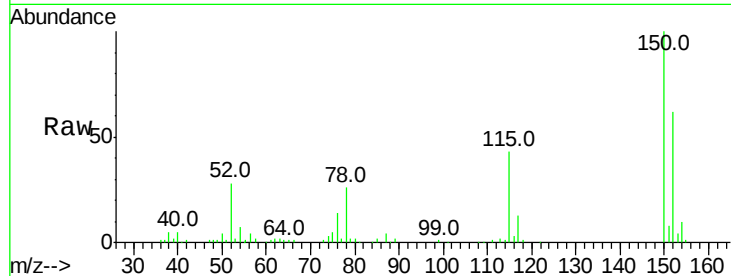
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.45 min Scan# 775
Delta R.T. -0.05 min
Lab File: BF097301.D
Acq: 3 Aug 2017 5:58

Instrument :
BNA_F
ClientSampleId :
E2-L6-ESWDL

Tot Ion	Ratio	Lower	Upper
152	100		
150	162.3	126.2	189.2
115	69.3	52.2	78.2

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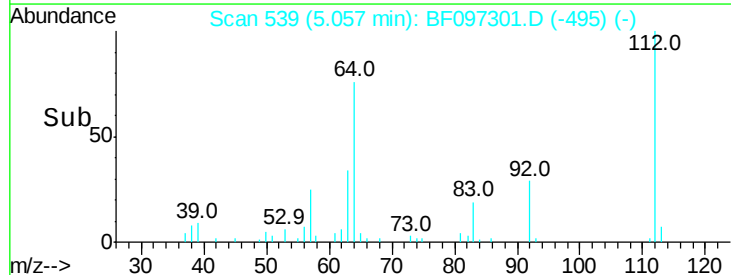
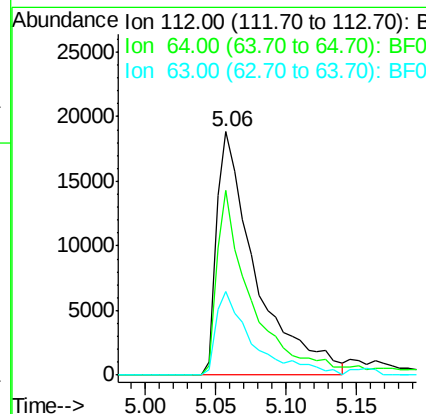
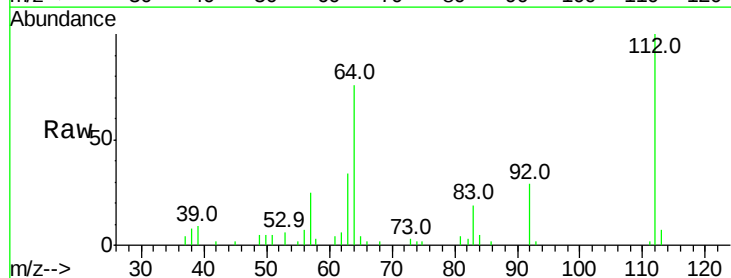
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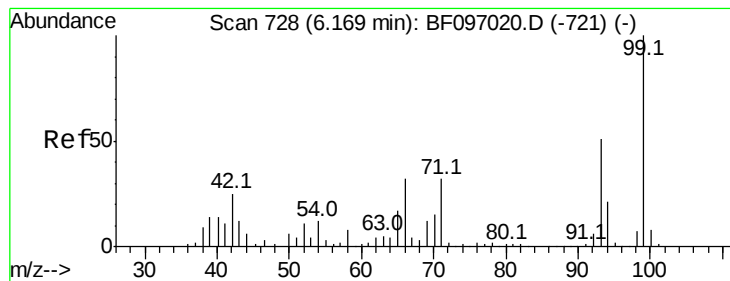


#5

2-Fluorophenol
Concen: 6.197 ng
RT: 5.06 min Scan# 539
Delta R.T. -0.04 min
Lab File: BF097301.D
Acq: 3 Aug 2017 5:58

Tgt Ion	Ratio	Lower	Upper
112	100		
64	75.9	46.0	69.0#
63	34.3	23.4	35.0





#7

Phenol-d6

Concen: 7.185 ng

RT: 6.13 min Scan# 721

Delta R.T. -0.04 min

Lab File: BF097301.D

Acq: 3 Aug 2017 5:58

Instrument :

BNA_F

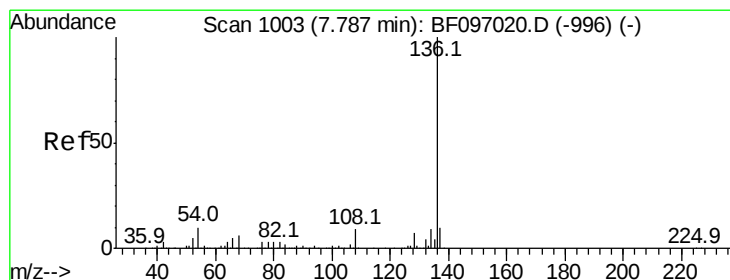
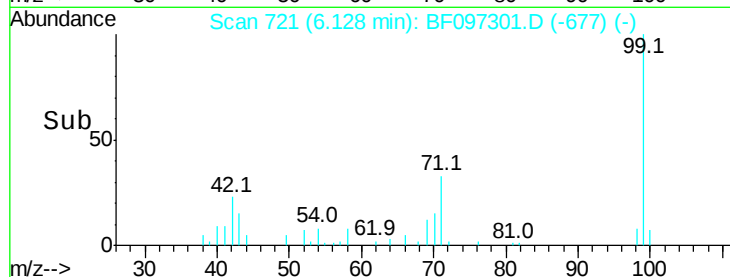
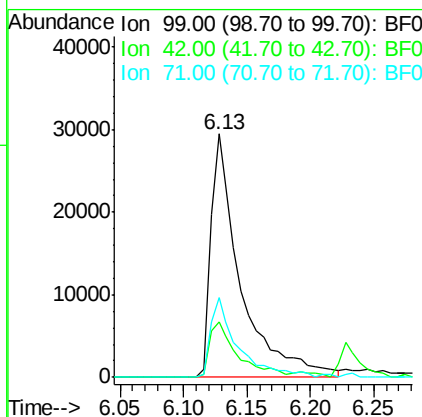
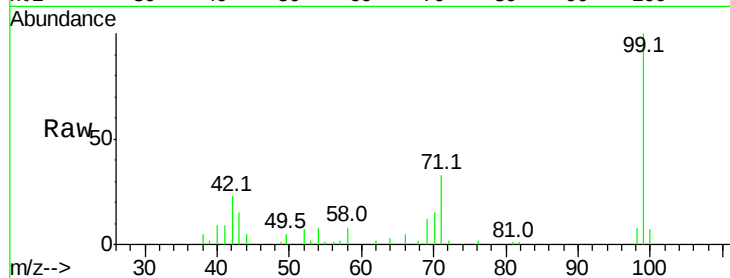
ClientSampleId :

E2-L6-ESWDL

Tot Ion:	99	Resp:	48216
Ion Ratio	Lower	Upper	
99	100		
42	22.7	13.5	20.3#
71	32.6	24.5	36.7

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#21

Naphthalene-d8

Concen: 20.000 ng

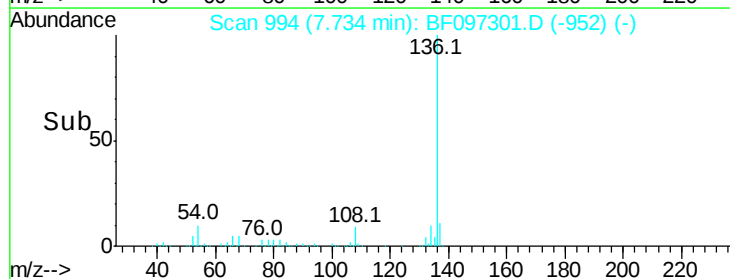
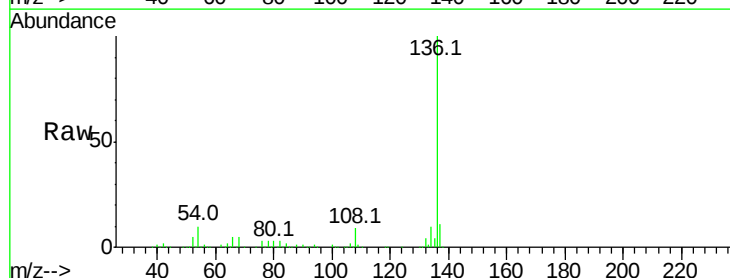
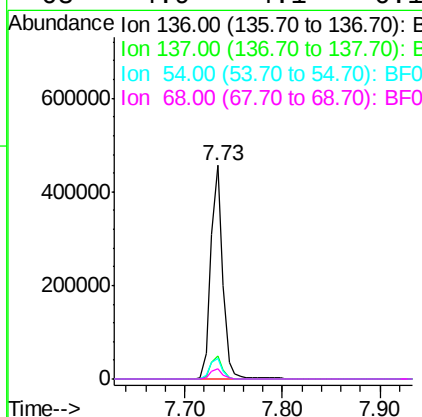
RT: 7.73 min Scan# 994

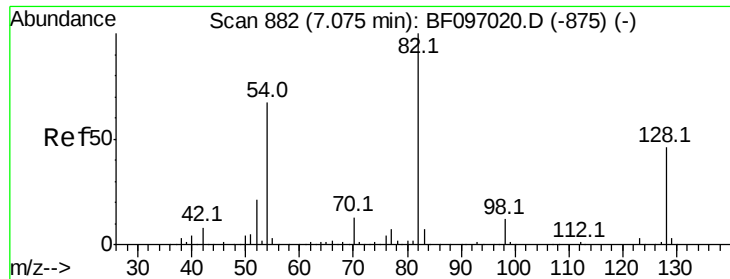
Delta R.T. -0.05 min

Lab File: BF097301.D

Acq: 3 Aug 2017 5:58

Tgt Ion:	136	Resp:	388594
Ion Ratio	Lower	Upper	
136	100		
137	10.8	8.5	12.7
54	9.9	4.9	7.3#
68	4.9	4.1	6.1





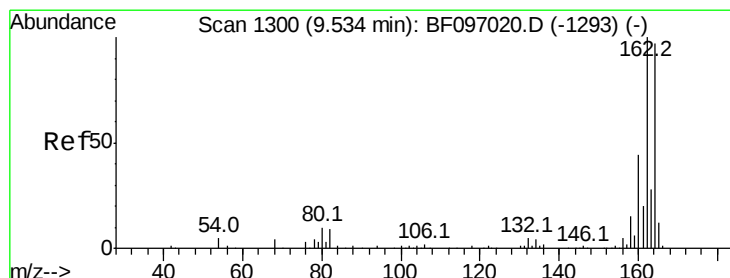
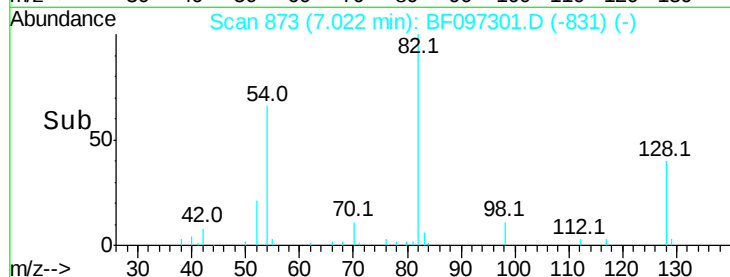
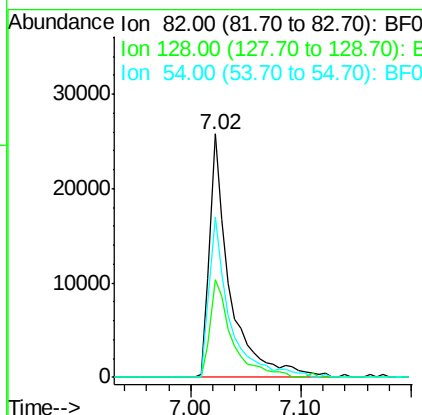
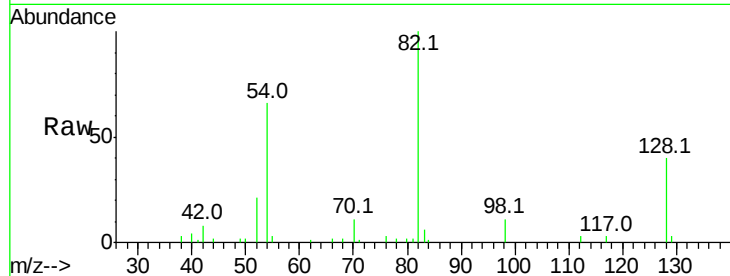
#23
 Nitrobenzene-d5
 Concen: 4.889 ng
 RT: 7.02 min Scan# 873
 Delta R.T. -0.05 min
 Lab File: BF097301.D
 Acq: 3 Aug 2017 5:58

Instrument :
 BNA_F
 ClientSampleId :
 E2-L6-ESWDL

Tot Ion	Ratio	Resp Lower	Upper
82	100		
128	40.1	34.0	51.0
54	65.9	42.2	63.2#

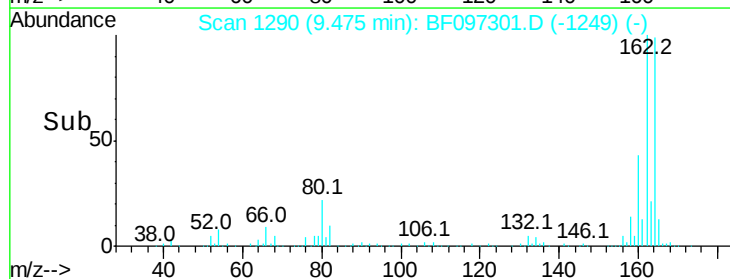
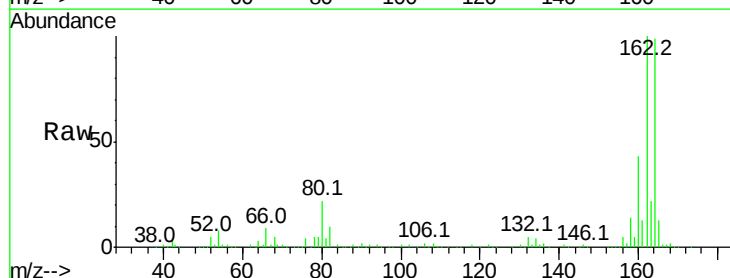
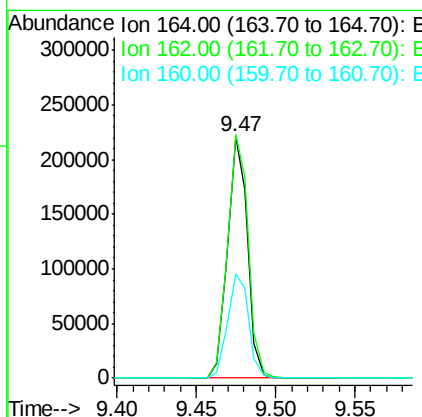
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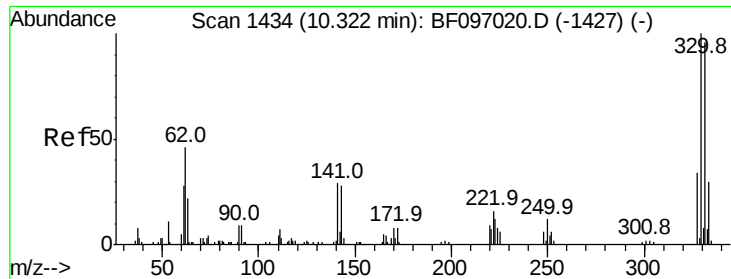
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#38
 Acenaphthene-d10
 Concen: 20.000 ng
 RT: 9.47 min Scan# 1290
 Delta R.T. -0.06 min
 Lab File: BF097301.D
 Acq: 3 Aug 2017 5:58

Tgt Ion	Ratio	Resp Lower	Upper
164	100		
162	100.9	82.6	123.8
160	43.1	36.2	54.2





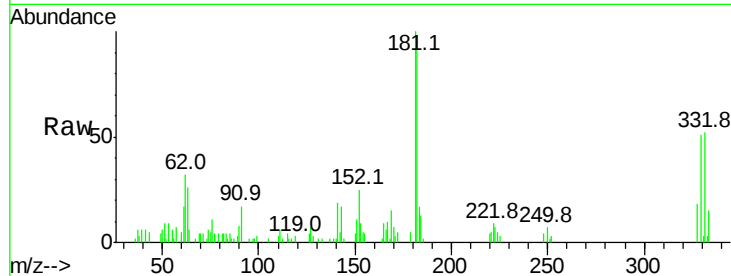
#41
 2,4,6-Tribromophenol
 Concen: 6.041 ng
 RT: 10.27 min Scan# 1425
 Delta R.T. -0.05 min
 Lab File: BF097301.D
 Acq: 3 Aug 2017 5:58

Instrument :
 BNA_F
 ClientSampleId :
 E2-L6-ESWDL

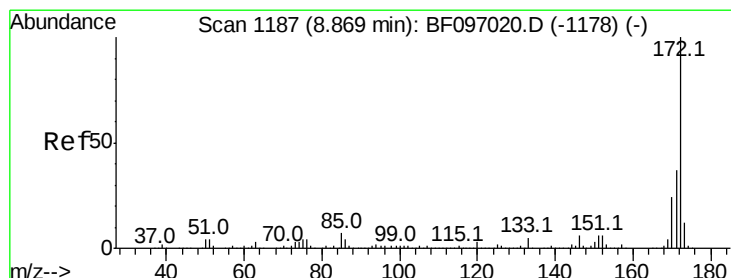
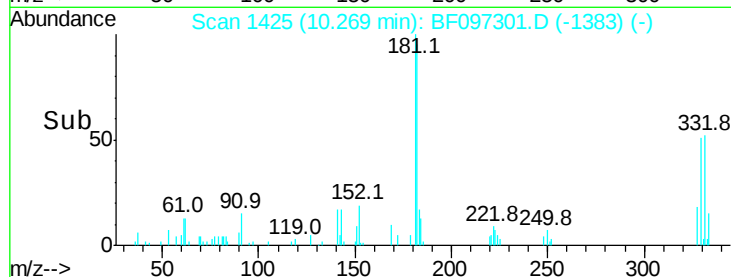
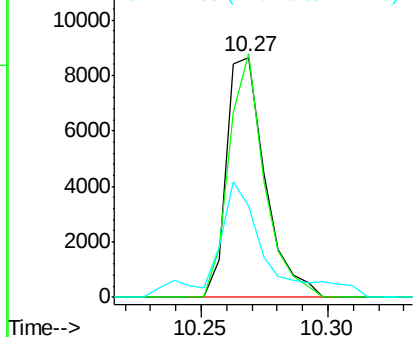
Tot Ion	Ratio	Resp	Lower	Upper
330	100			
332	93.4	76.6	115.0	
141	61.2	31.4	47.2#	

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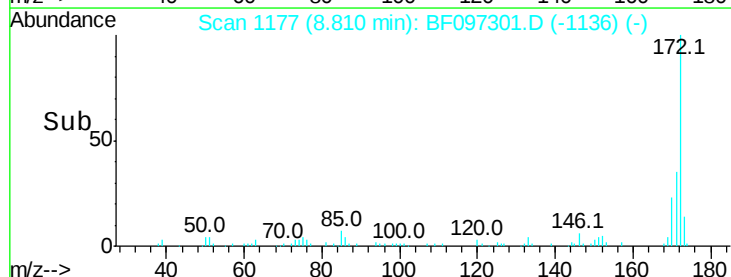
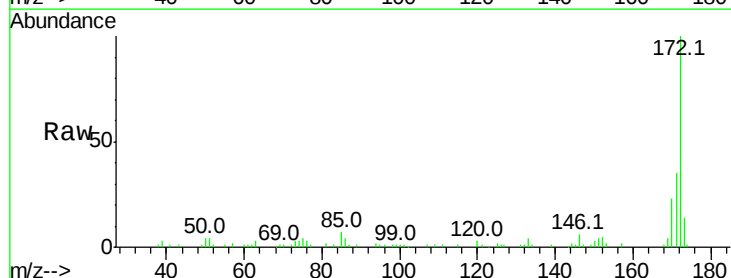
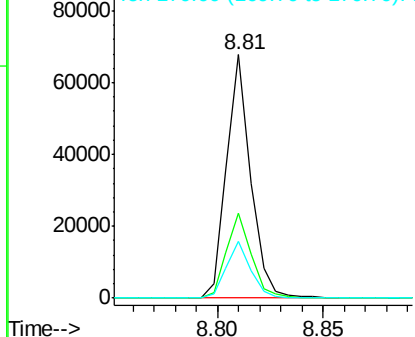
Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

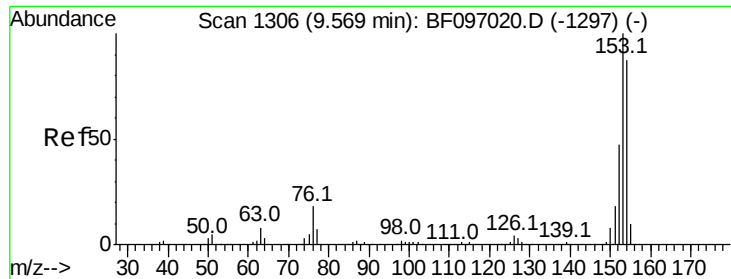


#44
 2-Fluorobiphenyl
 Concen: 4.721 ng
 RT: 8.81 min Scan# 1177
 Delta R.T. -0.06 min
 Lab File: BF097301.D
 Acq: 3 Aug 2017 5:58

Tgt Ion	Ratio	Resp	Lower	Upper
172	100			
171	35.0	29.6	44.4	
170	23.2	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





#51

Acenaphthene

Concen: 7.894 ng

RT: 9.51 min Scan# 1296

Delta R.T. -0.06 min

Lab File: BF097301.D

Acq: 3 Aug 2017 5:58

Instrument :

BNA_F

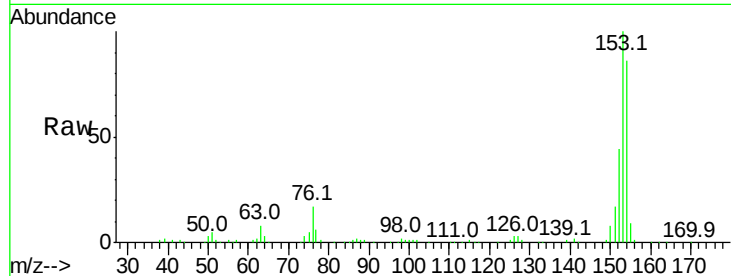
ClientSampleId :

E2-L6-ESWDL

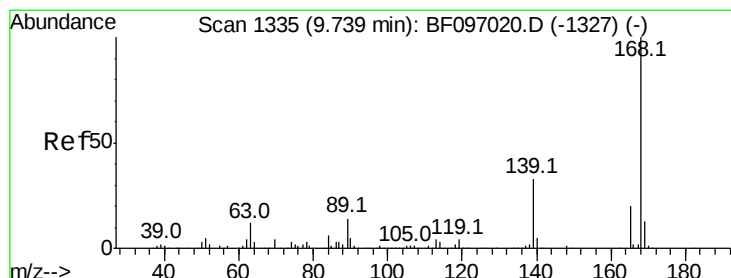
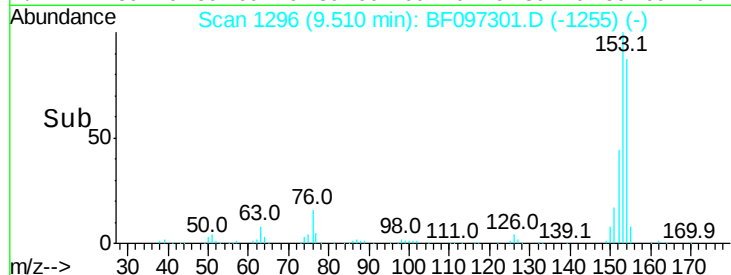
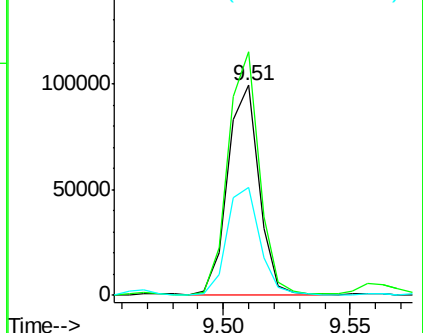
Tot Ion:154	Resp:	86046
Ion Ratio	Lower	Upper
154	100	
153	116.0	90.5 135.7
152	51.4	43.6 65.4

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Abundance Ion 154.00 (153.70 to 154.70): E
Ion 153.00 (152.70 to 153.70): E
Ion 152.00 (151.70 to 152.70): E



#54

Dibenzofuran

Concen: 4.451 ng

RT: 9.68 min Scan# 1325

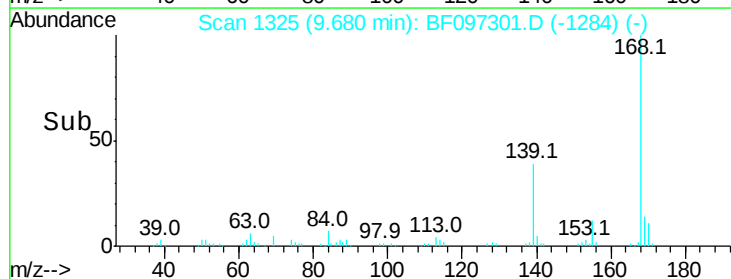
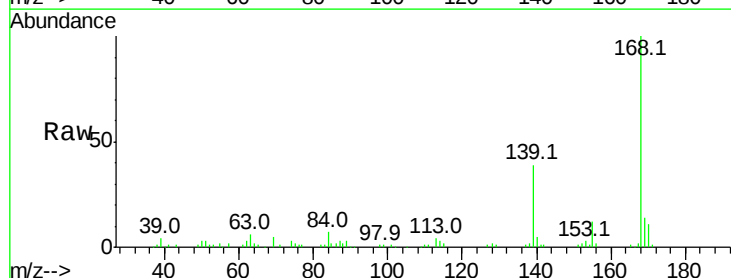
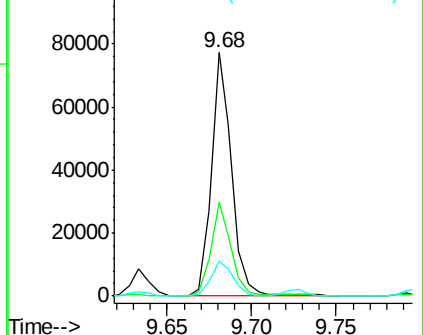
Delta R.T. -0.06 min

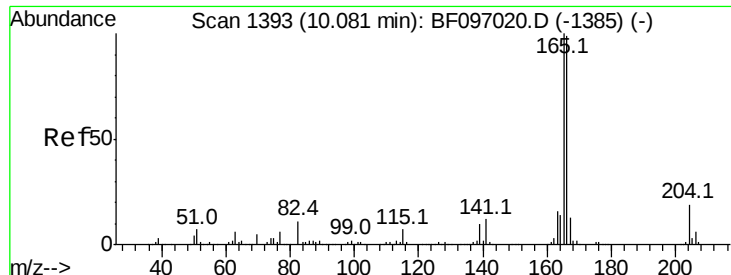
Lab File: BF097301.D

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Tgt Ion:168	Resp:	64625
Ion Ratio	Lower	Upper
168	100	
139	38.6	30.6 45.8
169	14.4	10.8 16.2

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





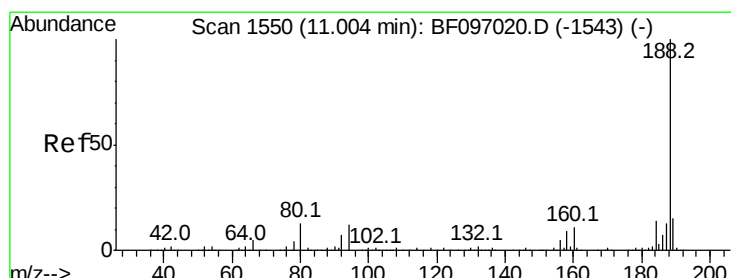
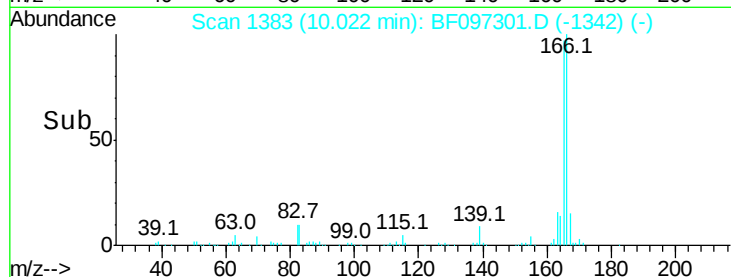
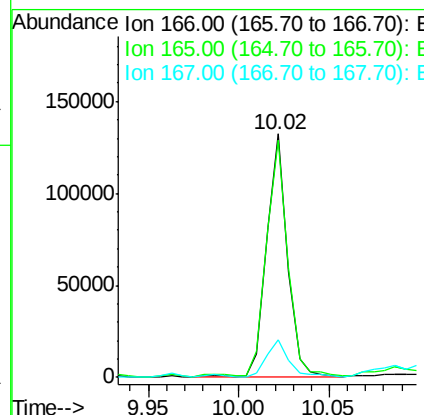
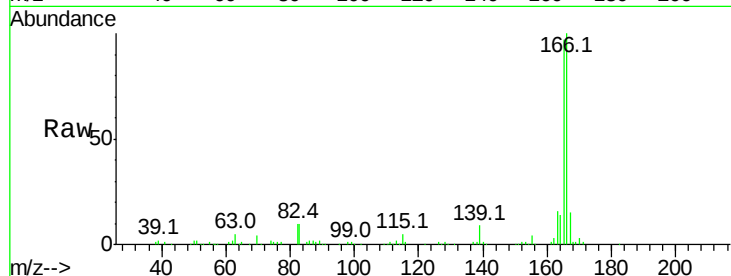
#57
Fluorene
 Concen: 9.711 ng
 RT: 10.02 min Scan# 1383
 Delta R.T. -0.06 min
 Lab File: BF097301.D
 Acq: 3 Aug 2017 5:58

Instrument :
 BNA_F
 ClientSampleId :
 E2-L6-ESWDL

Tot Ion	Ratio	Resp	Lower	Upper
166	100	105969		
165	97.2	78.8	118.2	
167	15.4	10.6	16.0	

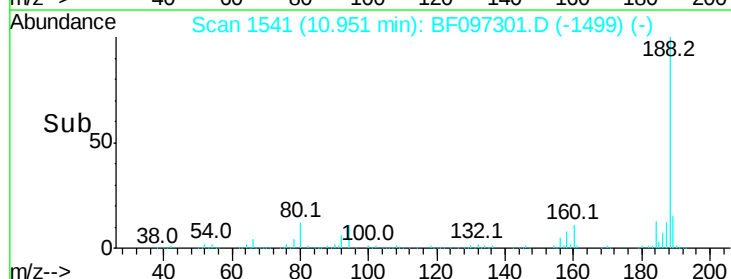
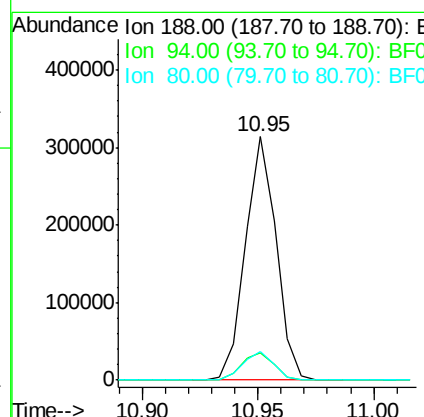
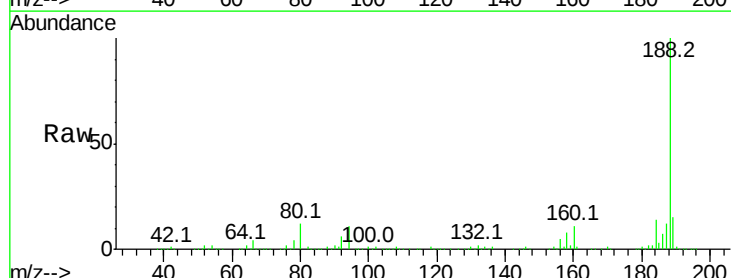
Manual Integrations
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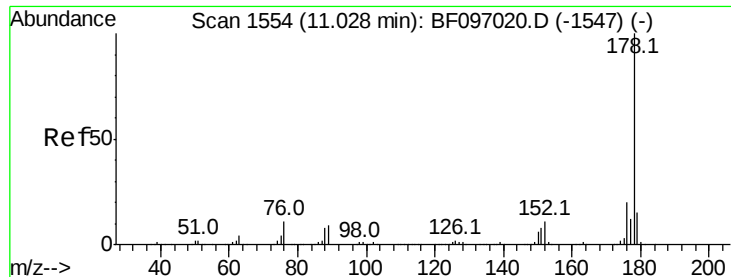
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#63
Phenanthrene-d10
 Concen: 20.000 ng
 RT: 10.95 min Scan# 1541
 Delta R.T. -0.05 min
 Lab File: BF097301.D
 Acq: 3 Aug 2017 5:58

Tgt Ion	Ratio	Resp	Lower	Upper
188	100	292252		
94	11.0	9.4	14.2	
80	12.0	10.2	15.2	





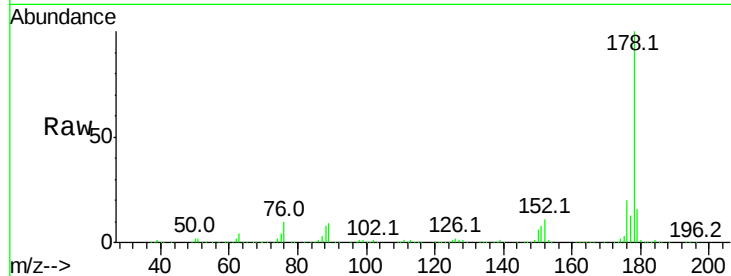
#70
Phenanthrene
Concen: 64.923 ng
RT: 10.98 min Scan# 1546
Delta R.T. -0.05 min
Lab File: BF097301.D
Acq: 3 Aug 2017 5:58

Instrument :
BNA_F
ClientSampled :
E2-L6-ESWDL

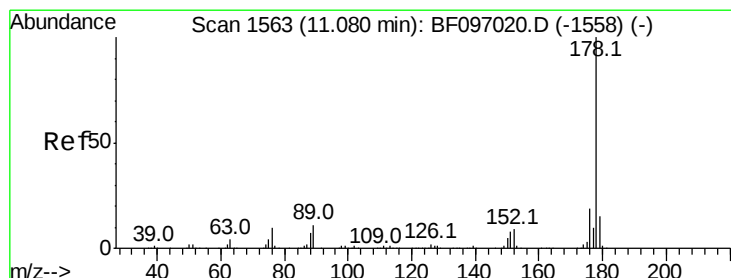
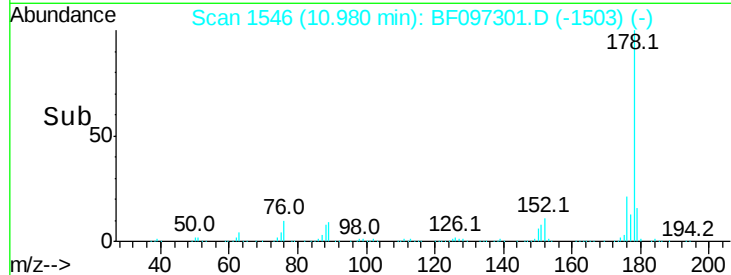
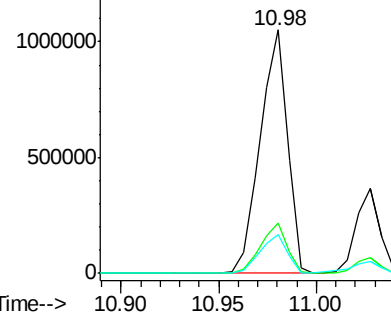
Tot Ion	Ratio	Lower	Upper
178	100		
176	20.5	16.2	24.4
179	16.0	12.6	19.0

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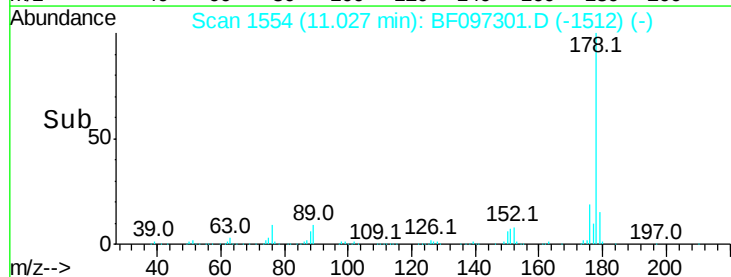
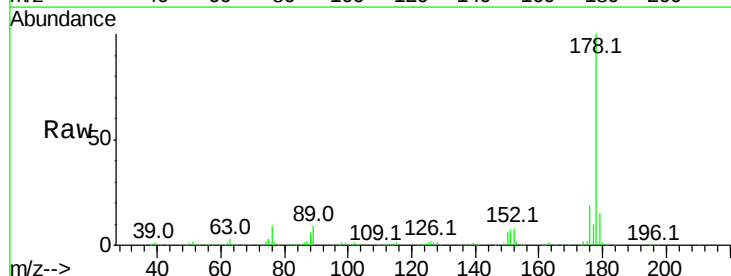
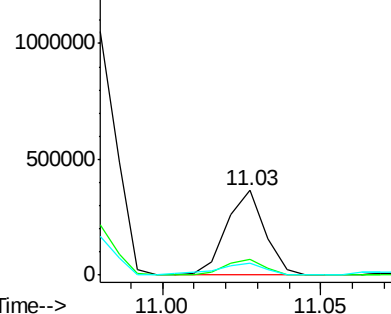
Abundance Ion 178.00 (177.70 to 178.70): E
Ion 176.00 (175.70 to 176.70): E
Ion 179.00 (178.70 to 179.70): E

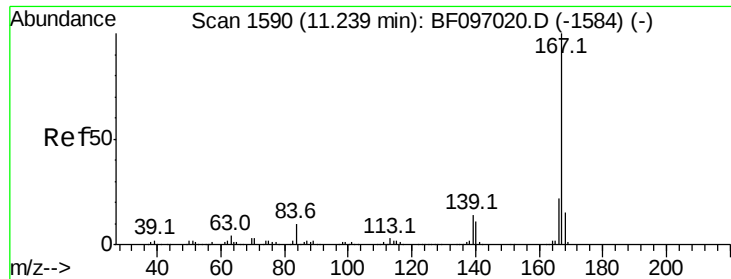


#71
Anthracene
Concen: 19.149 ng
RT: 11.03 min Scan# 1554
Delta R.T. -0.05 min
Lab File: BF097301.D
Acq: 3 Aug 2017 5:58

Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.7	15.8	23.8
179	14.8	12.7	19.1

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





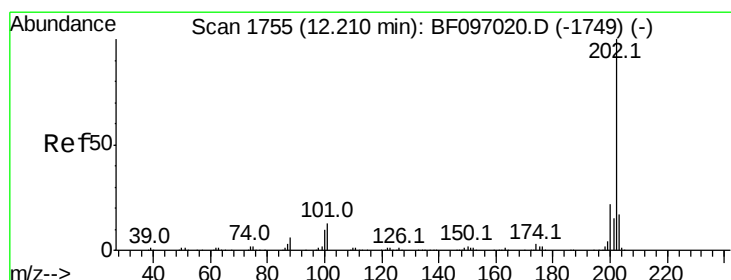
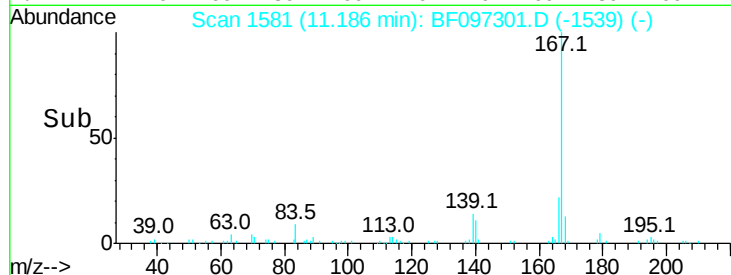
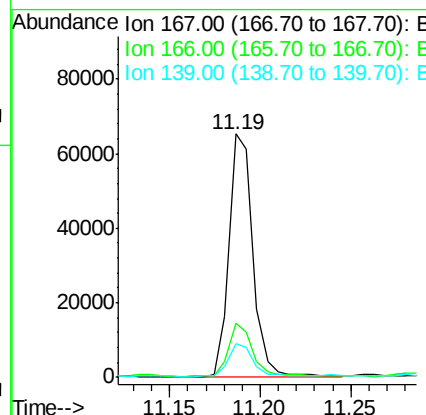
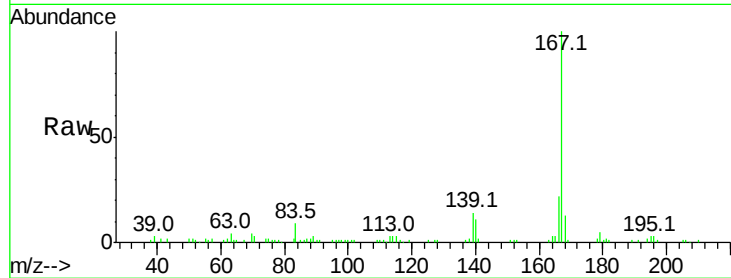
#72
 Carbazole
 Concen: 3.823 ng
 RT: 11.19 min Scan# 1581
 Delta R.T. -0.05 min
 Lab File: BF097301.D
 Acq: 3 Aug 2017 5:58

Instrument :
 BNA_F
 ClientSampleId :
 E2-L6-ESWDL

Tot Ion:	167	Resp:	60302
Ion Ratio	Lower	Upper	
167	100		
166	22.1	18.1	27.1
139	13.9	11.7	17.5

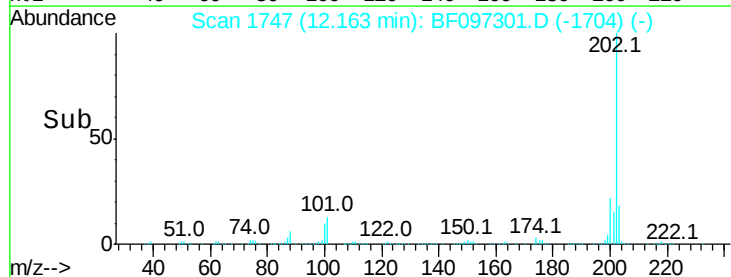
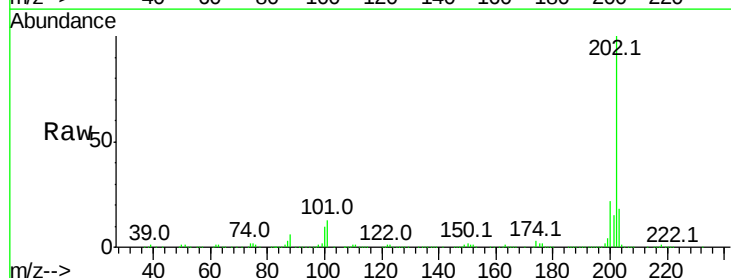
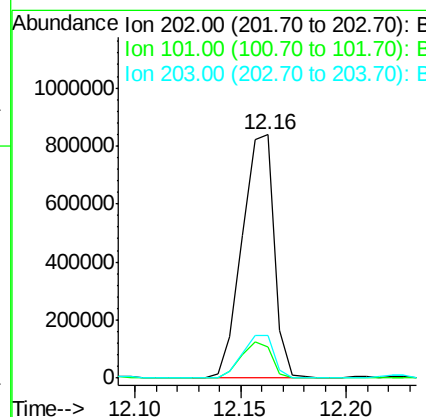
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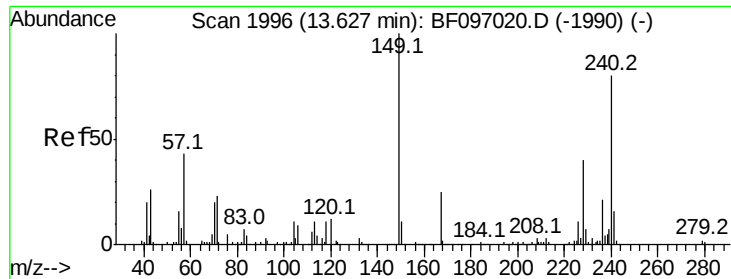
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#74
 Fluoranthene
 Concen: 57.171 ng
 RT: 12.16 min Scan# 1747
 Delta R.T. -0.05 min
 Lab File: BF097301.D
 Acq: 3 Aug 2017 5:58

Tgt Ion:	202	Resp:	877030
Ion Ratio	Lower	Upper	
202	100		
101	13.0	0.0	33.2
203	17.7	0.0	38.1





#75

Chrysene-d12

Concen: 20.000 ng

RT: 13.57 min Scan# 1987

Delta R.T. -0.05 min

Lab File: BF097301.D

Acq: 3 Aug 2017 5:58

Instrument :

BNA_F

ClientSampled :

E2-L6-ESWDL

Tot Ion:240 Resp: 176562

Ion Ratio Lower Upper

240 100

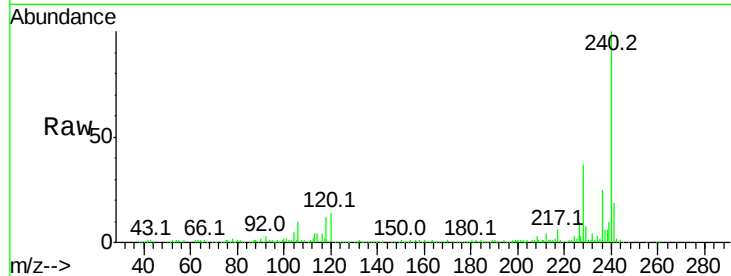
120 14.2 5.8 8.8#

236 25.2 20.5 30.7

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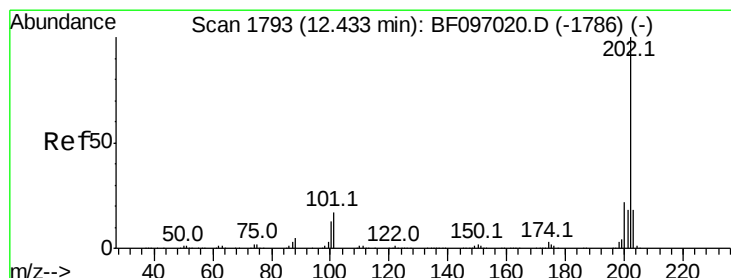
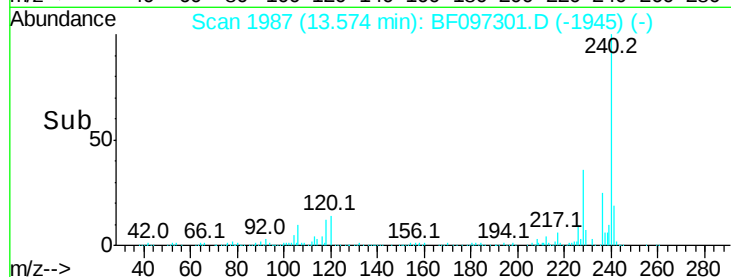
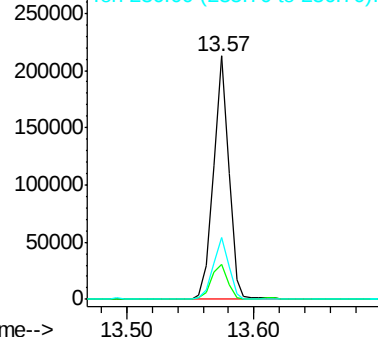
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Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E



#77

Pyrene

Concen: 60.184 ng

RT: 12.39 min Scan# 1785

Delta R.T. -0.05 min

Lab File: BF097301.D

Acq: 3 Aug 2017 5:58

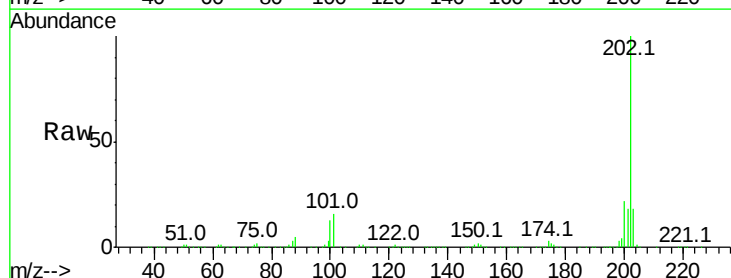
Tgt Ion:202 Resp: 869935

Ion Ratio Lower Upper

202 100

200 21.8 17.6 26.4

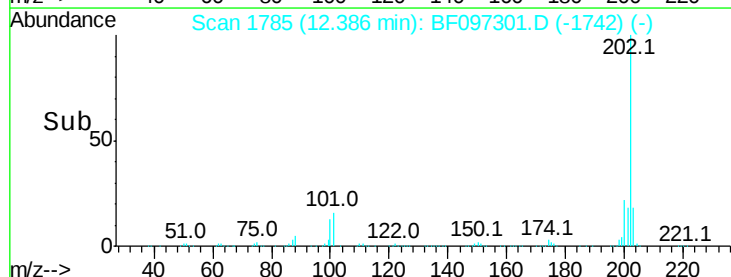
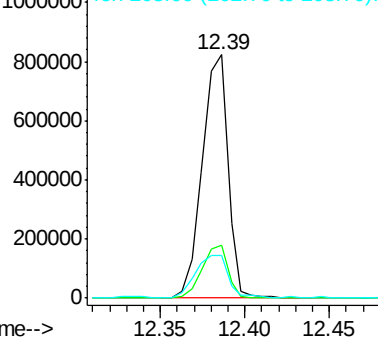
203 17.7 14.4 21.6

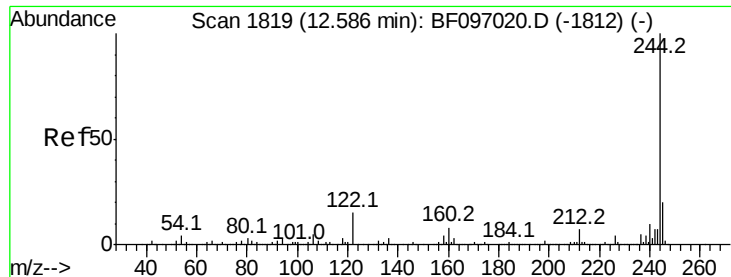


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#78

Terphenyl-d14

Concen: 3.980 ng

RT: 12.53 min Scan# 1809

Delta R.T. -0.06 min

Lab File: BF097301.D

Acq: 3 Aug 2017 5:58

Instrument :

BNA_F

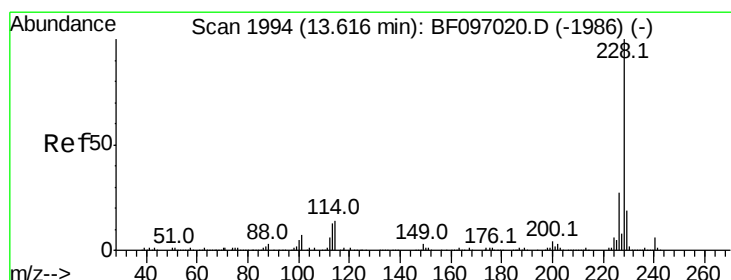
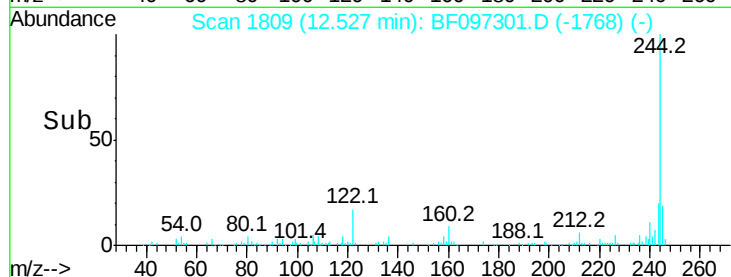
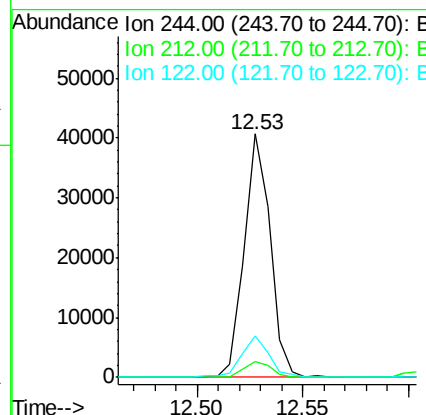
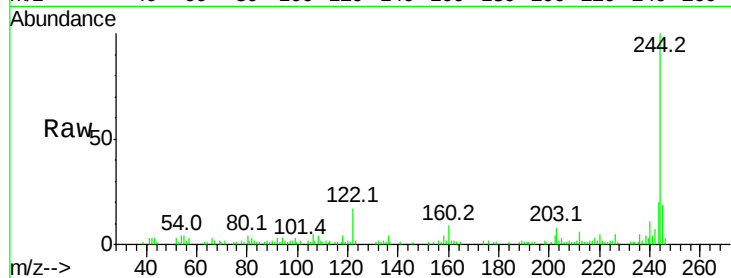
ClientSampled :

E2-L6-ESWDL

Tot Ion:	244	Resp:	34462
Ion Ratio	Lower	Upper	
244	100		
212	6.2	6.0	9.0
122	16.9	10.3	15.5#

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#80

Benzo(a)anthracene

Concen: 27.626 ng

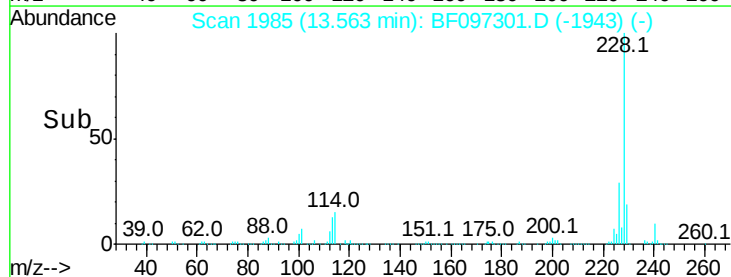
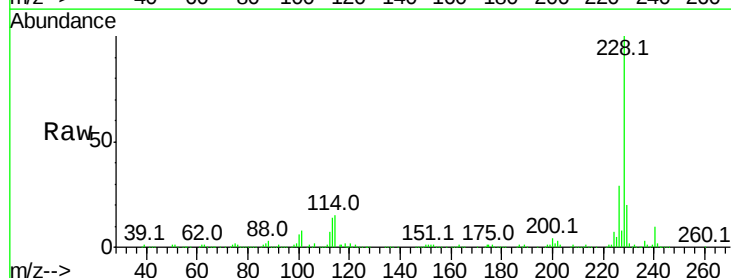
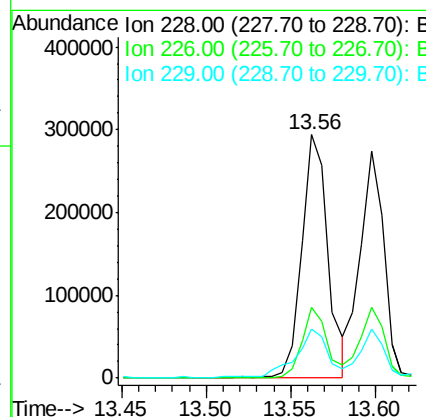
RT: 13.56 min Scan# 1985

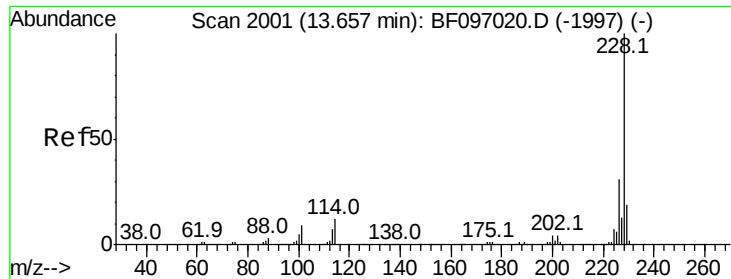
Delta R.T. -0.05 min

Lab File: BF097301.D

Acq: 3 Aug 2017 5:58

Tgt Ion:	228	Resp:	315609
Ion Ratio	Lower	Upper	
228	100		
226	28.9	22.6	33.8
229	19.9	16.3	24.5





#82

Chrysene

Concen: 24.161 ng

RT: 13.60 min Scan# 1991

Delta R.T. -0.06 min

Lab File: BF097301.D

Acq: 3 Aug 2017 5:58

Instrument :

BNA_F

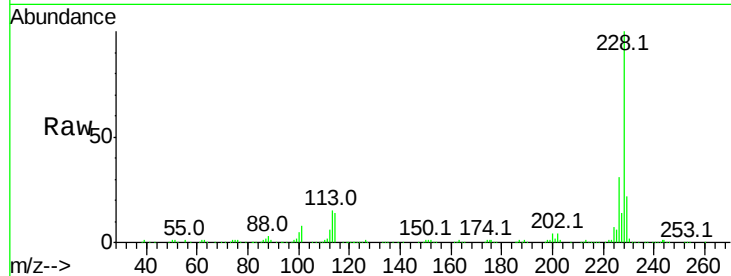
ClientSampleId :

E2-L6-ESWDL

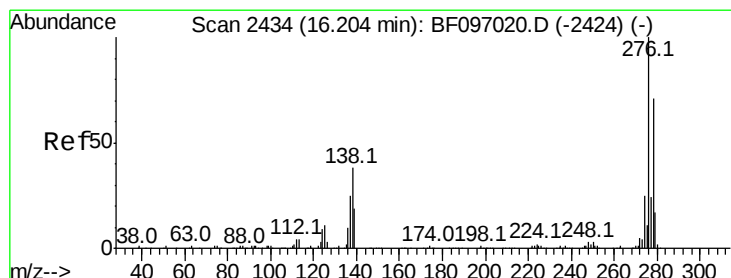
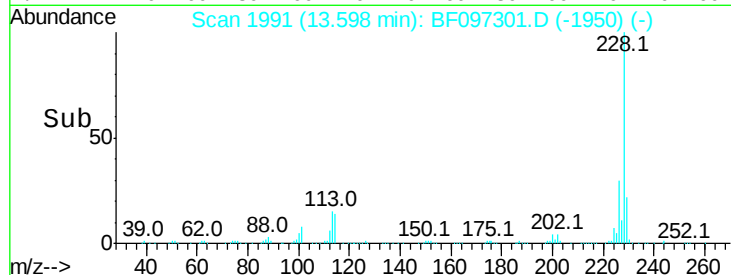
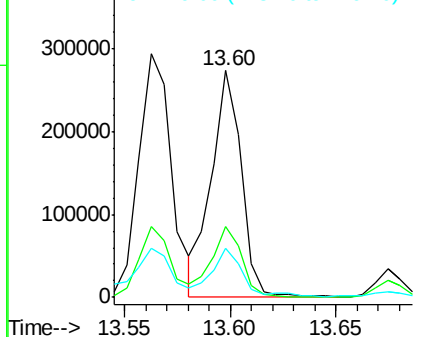
Tot Ion:	228	Resp:	269524
Ion Ratio	Lower	Upper	
228	100		
226	31.2	24.9	37.3
229	21.8	15.8	23.6

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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: 10.795 ng

RT: 16.12 min Scan# 2420

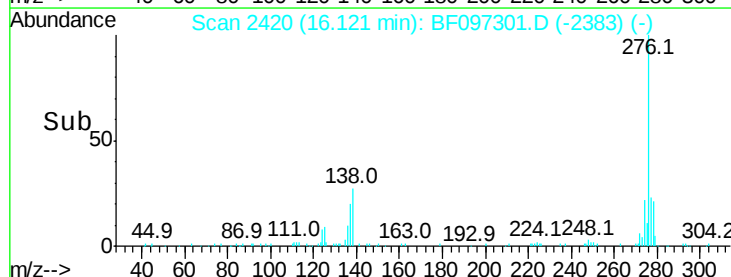
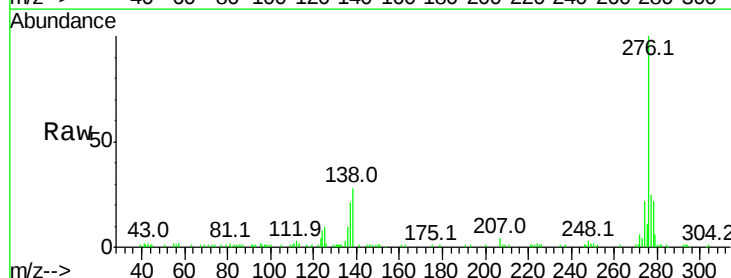
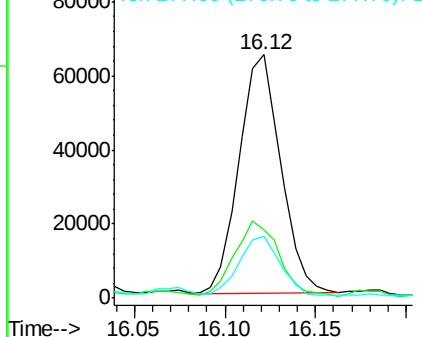
Delta R.T. -0.08 min

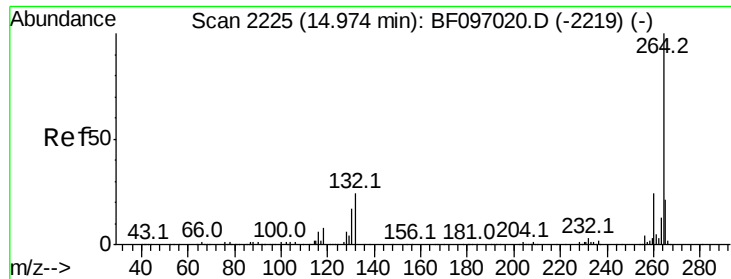
Lab File: BF097301.D

Acq: 3 Aug 2017 5:58

Tgt Ion:	276	Resp:	103261
Ion Ratio	Lower	Upper	
276	100		
138	33.7	27.8	41.6
277	25.0	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





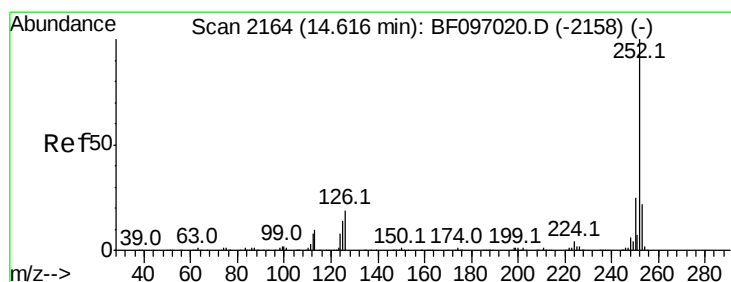
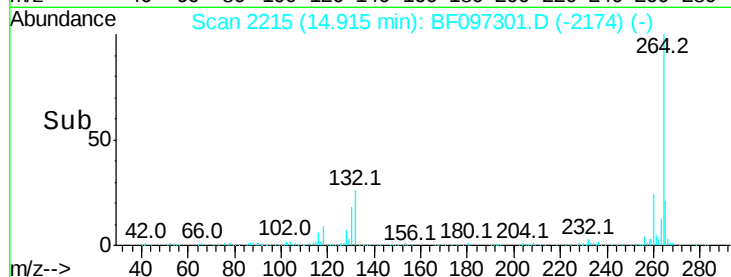
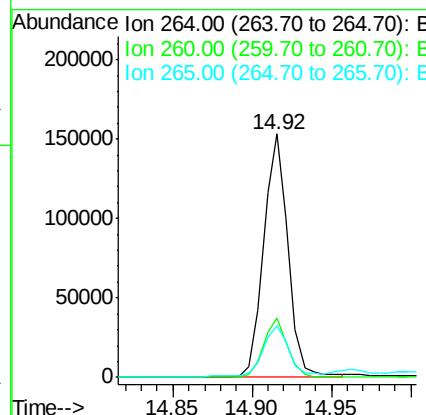
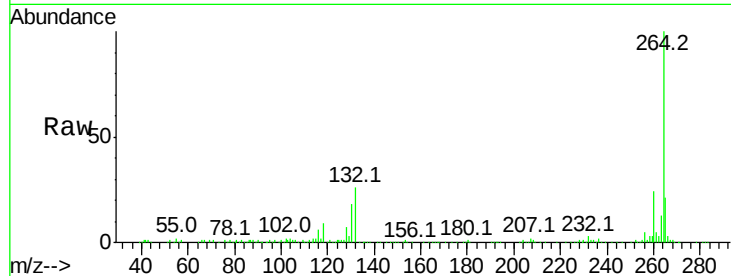
#86
Pervlene-d12
Concen: 20.000 ng
RT: 14.92 min Scan# 2215
Delta R.T. -0.06 min
Lab File: BF097301.D
Acq: 3 Aug 2017 5:58

Instrument :
BNA_F
ClientSampleId :
E2-L6-ESWDL

Tot Ion	Ratio	Resp Lower	Upper
264	100		
260	24.2	19.5	29.3
265	21.2	17.2	25.8

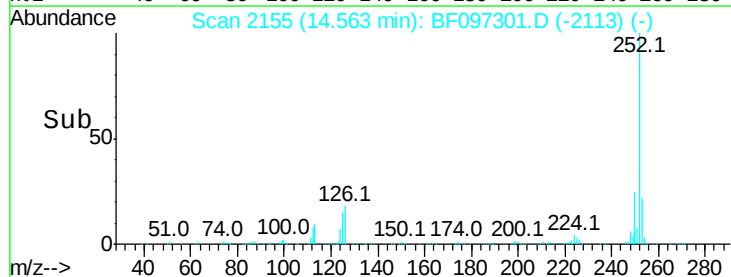
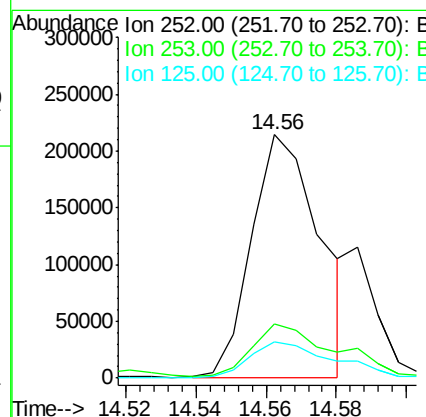
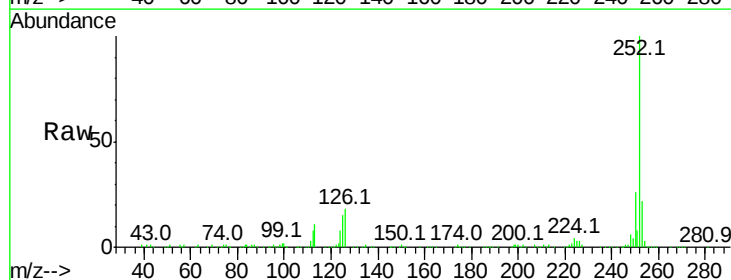
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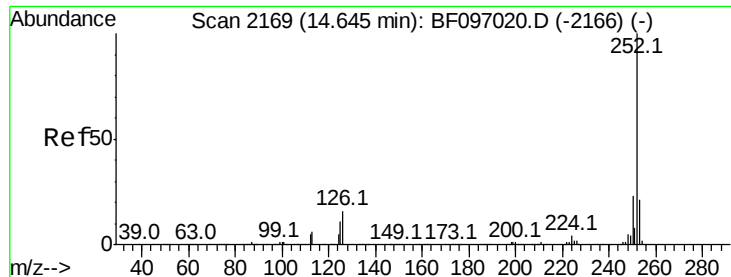
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#87
Benzo(b)fluoranthene
Concen: 29.181 ng m
RT: 14.56 min Scan# 2155
Delta R.T. -0.05 min
Lab File: BF097301.D
Acq: 3 Aug 2017 5:58

Tgt Ion	Ratio	Resp Lower	Upper
252	100		
253	22.3	18.1	27.1
125	14.9	9.8	14.8#





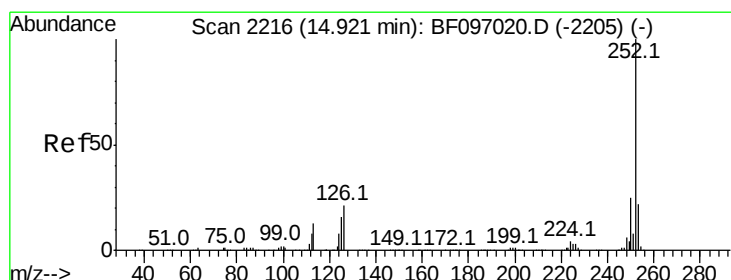
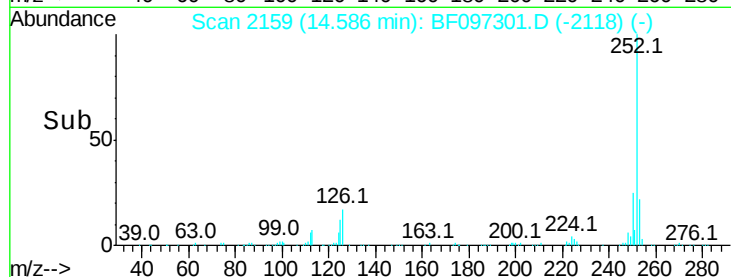
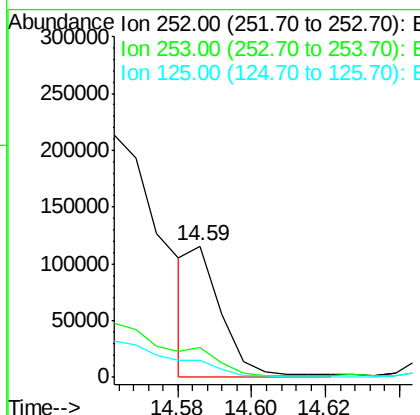
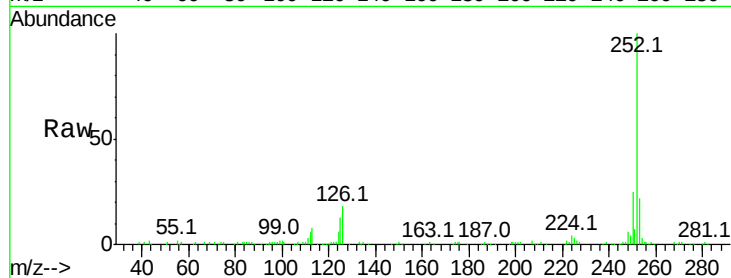
#88
Benzo(k)fluoranthene
Concen: 7.360 ng m
RT: 14.59 min Scan# 2159
Delta R.T. -0.06 min
Lab File: BF097301.D
Acq: 3 Aug 2017 5:58

Instrument :
BNA_F
ClientSampleId :
E2-L6-ESWDL

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.3	18.4	27.6
125	12.9	13.1	19.7

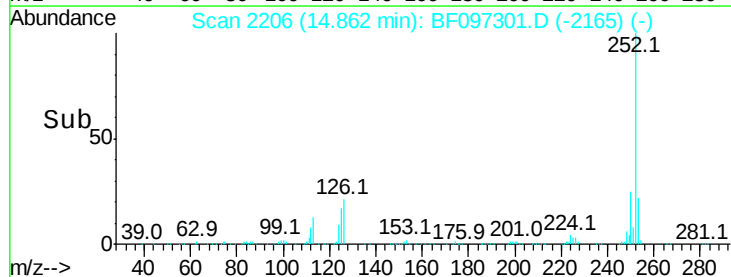
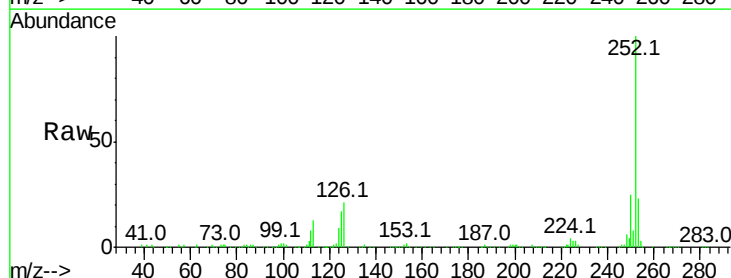
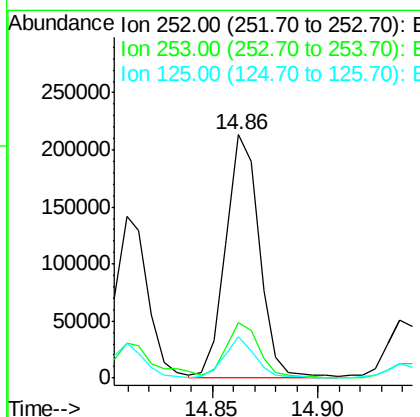
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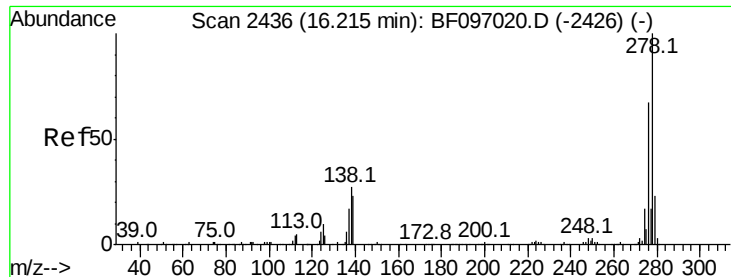
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#89
Benzo(a)pyrene
Concen: 25.637 ng
RT: 14.86 min Scan# 2206
Delta R.T. -0.06 min
Lab File: BF097301.D
Acq: 3 Aug 2017 5:58

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.9	17.5	26.3
125	16.9	11.0	16.4





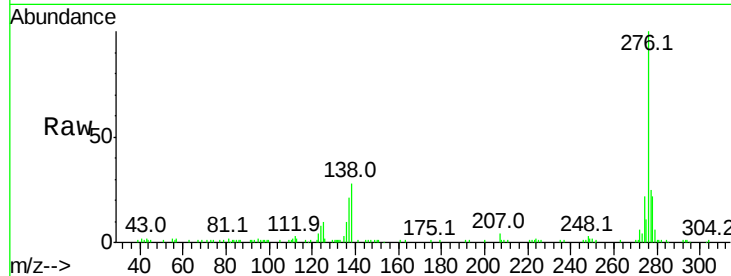
#90
Dibenzo(a,h)anthracene
Concen: 3.824 ng m
RT: 16.12 min Scan# 2420
Delta R.T. -0.09 min
Lab File: BF097301.D
Acq: 3 Aug 2017 5:58

Instrument :
BNA_F
ClientSampleId :
E2-L6-ESWDL

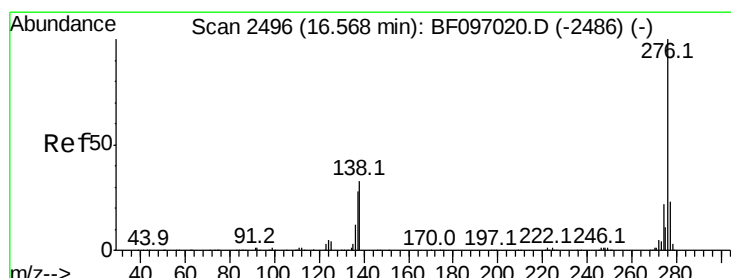
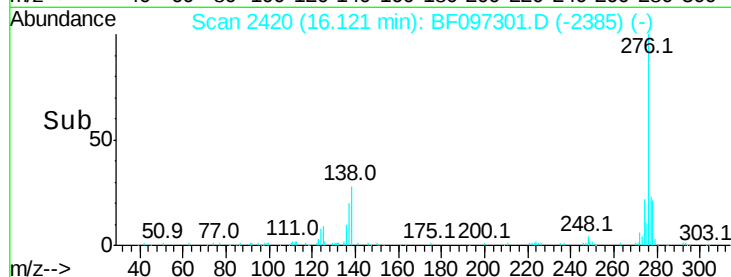
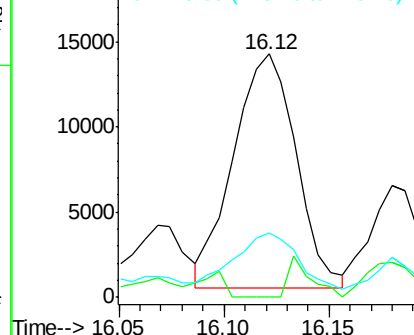
Tot Ion	Ratio	Lower	Upper
278	100		
139	0.0	16.6	24.8#
279	26.5	19.3	28.9

Manual Integrations
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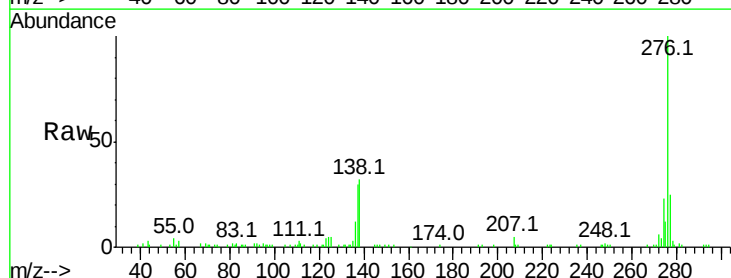


Abundance Ion 278.00 (277.70 to 278.70): E
Ion 139.00 (138.70 to 139.70): E
Ion 279.00 (278.70 to 279.70): E



#91
Benzo(g,h,i)perylene
Concen: 14.938 ng
RT: 16.47 min Scan# 2480
Delta R.T. -0.09 min
Lab File: BF097301.D
Acq: 3 Aug 2017 5:58

Tgt Ion	Ratio	Lower	Upper
276	100		
277	25.0	18.6	28.0
138	31.6	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

