

Data Path : Z:\HPCHEM1\BNA F\DATA\BF080517\
 Data File : BF097400.D
 Acq On : 5 Aug 2017 16:37
 Operator : SJ/JU
 Sample : I4610-04
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 PL-02-080317-B

Manual Integrations
 APPROVED

Sohil
 8/7/2017 6:00:44 PM

Quant Time: Aug 06 04:41:00 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF072517.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Aug 04 01:17:22 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.42	152	135494	20.00	ng	-0.08
21) Naphthalene-d8	7.71	136	503422	20.00	ng	-0.08
38) Acenaphthene-d10	9.45	164	218972	20.00	ng	-0.08
63) Phenanthrene-d10	10.93	188	239138	20.00	ng	-0.08
75) Chrysene-d12	13.57	240	144530	20.00	ng	-0.06
86) Perylene-d12	14.90	264	148815	20.00	ng	-0.07
System Monitoring Compounds						
5) 2-Fluorophenol	5.02	112	762968	84.89	ng	-0.08
7) Phenol-d6	6.10	99	926764	90.32	ng	-0.07
23) Nitrobenzene-d5	7.00	82	569434	66.36	ng	-0.08
41) 2,4,6-Tribromophenol	10.25	330	123056	71.13	ng	-0.08
44) 2-Fluorobiphenyl	8.79	172	847634	65.69	ng	-0.08
78) Terphenyl-d14	12.51	244	471524	66.52	ng	-0.08
Target Compounds						Qvalue
10) Phenol	6.11	94	29158	2.396	ng	85
31) Naphthalene	7.73	128	1261308	53.151	ng	100
37) 2-Methylnaphthalene	8.42	142	637838	42.451	ng	98
45) 1,1'-Biphenyl	8.88	154	174473	9.328	ng	98
48) Acenaphthylene	9.31	152	228259	10.805	ng	# 95
49) Dimethylphthalate	9.19	163	130809	7.867	ng	99
51) Acenaphthene	9.49	154	874346	70.263	ng	97
54) Dibenzofuran	9.66	168	1118392	67.475	ng	96
57) Fluorene	10.01	166	1376826	110.520	ng	98
70) Phenanthrene	10.99	178	4173420	325.715	ng	100
71) Anthracene	11.02	178	1757192m	133.898	ng	
72) Carbazole	11.17	167	813536	63.033	ng	100
74) Fluoranthene	12.16	202	3748765	298.649	ng	99
77) Pyrene	12.39	202	3014666	254.785	ng	98
80) Benzo(a)anthracene	13.56	228	1879211	200.948	ng	97
82) Chrysene	13.60	228	1394905	152.755	ng	96
85) Indeno(1,2,3-cd)pyrene	16.12	276	670451	85.624	ng	# 92
87) Benzo(b)fluoranthene	14.56	252	1626438m	181.814	ng	
88) Benzo(k)fluoranthene	14.58	252	517832m	60.747	ng	
89) Benzo(a)pyrene	14.87	252	1112433	135.874	ng	98
90) Dibenzo(a,h)anthracene	16.11	278	176274m	26.255	ng	
91) Benzo(g,h,i)perylene	16.47	276	613156	87.087	ng	98

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

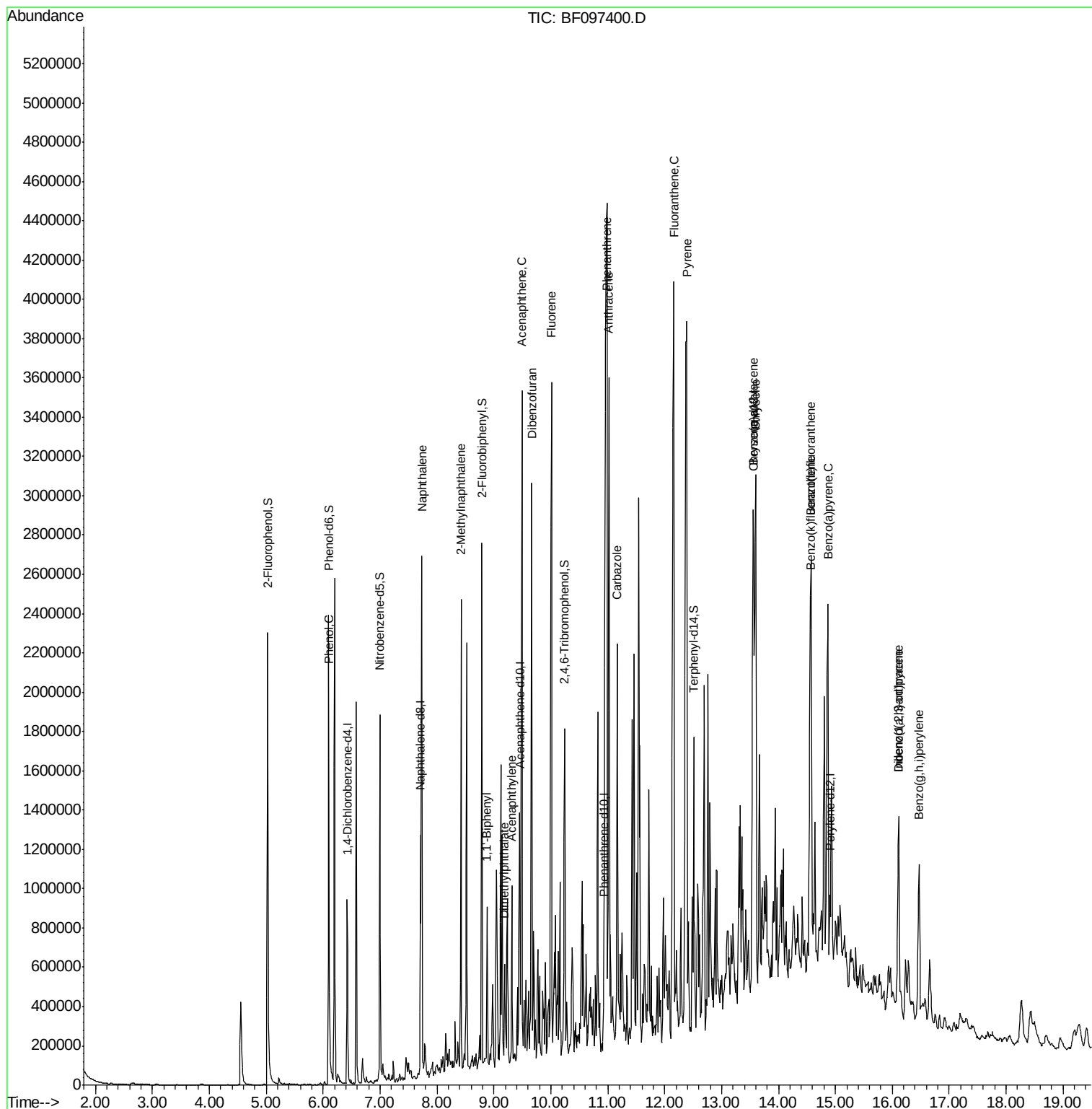
Data Path : Z:\HPCHEM1\BNA F\DATA\BF080517\
Data File : BF097400.D
Acq On : 5 Aug 2017 16:37
Operator : SJ/JU
Sample : I4610-04
Misc :
ALS Vial : 11 Sample Multiplier: 1

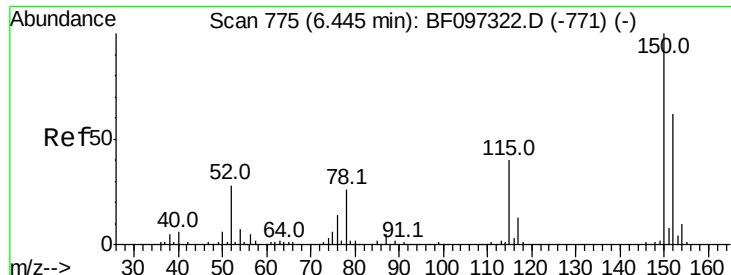
Instrument :
BNA_F
ClientSampleId :
PL-02-080317-B

Manual Integrations
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8/7/2017 6:00:44 PM

Quant Time: Aug 06 04:41:00 2017
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF072517.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
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#1

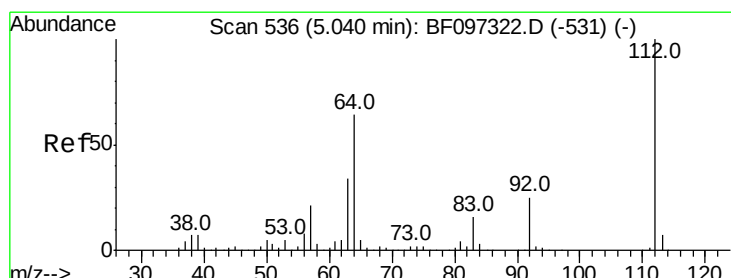
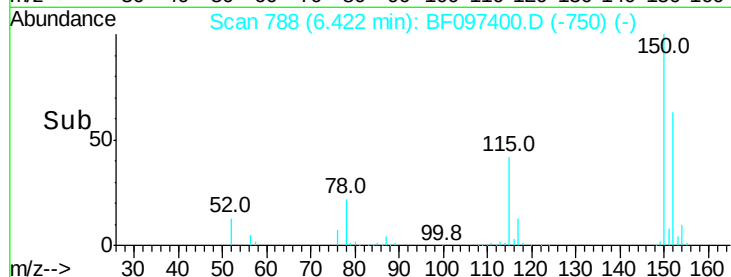
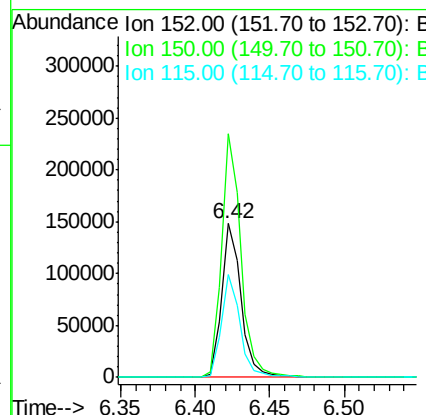
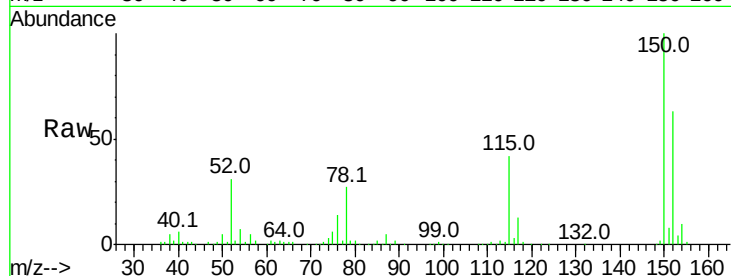
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.42 min Scan# 788
Delta R.T. -0.08 min
Lab File: BF097400.D
Acq: 5 Aug 2017 16:37

Instrument :
BNA_F
ClientSampleId :
PL-02-080317-B

Tot Ion	Ratio	Lower	Upper
152	100		
150	158.2	126.2	189.2
115	67.0	52.2	78.2

Manual Integrations
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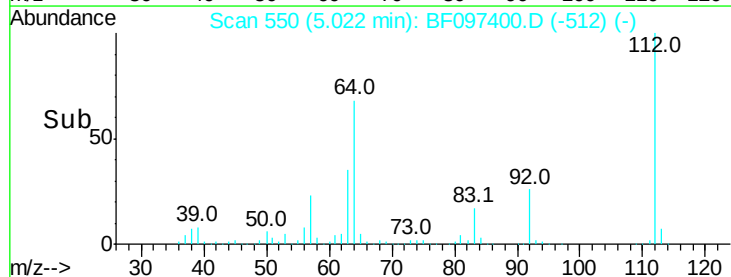
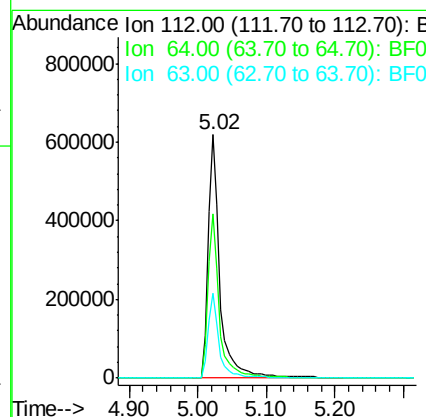
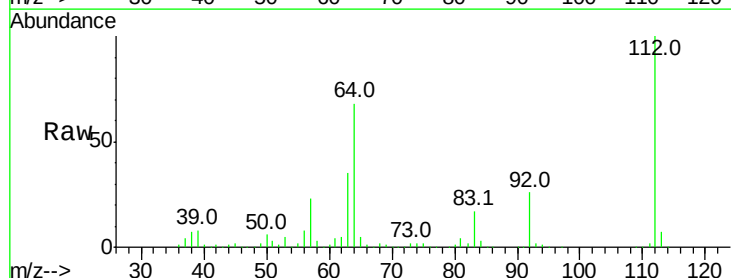
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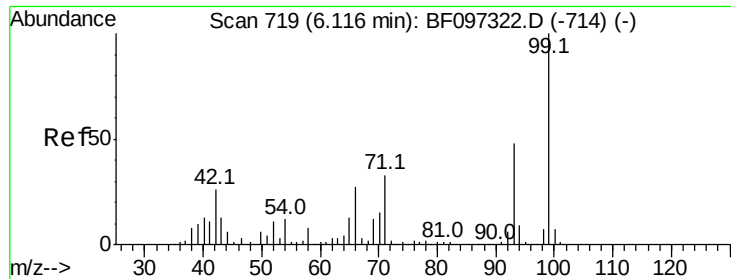


#5

2-Fluorophenol
Concen: 84.887 ng
RT: 5.02 min Scan# 550
Delta R.T. -0.08 min
Lab File: BF097400.D
Acq: 5 Aug 2017 16:37

Tgt Ion	Ratio	Lower	Upper
112	100		
64	67.6	46.0	69.0
63	34.8	23.4	35.0





#7

Phenol-d6

Concen: 90.320 ng

RT: 6.10 min Scan# 733

Delta R.T. -0.07 min

Lab File: BF097400.D

Acq: 5 Aug 2017 16:37

Instrument :

BNA_F

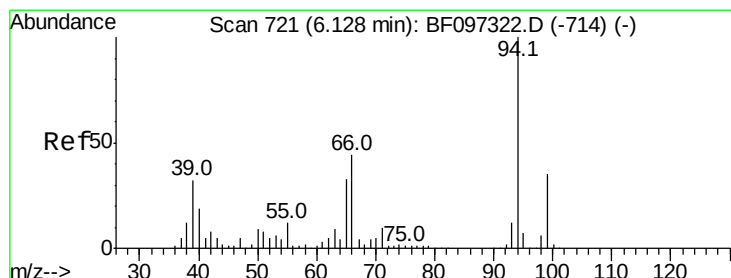
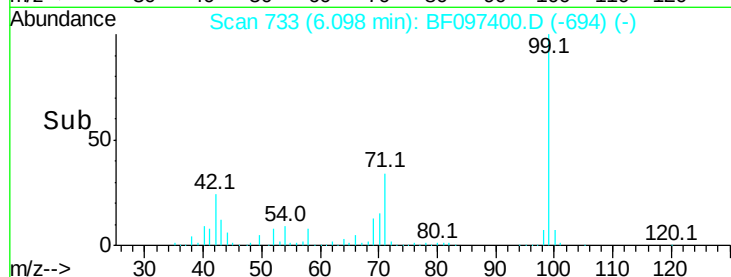
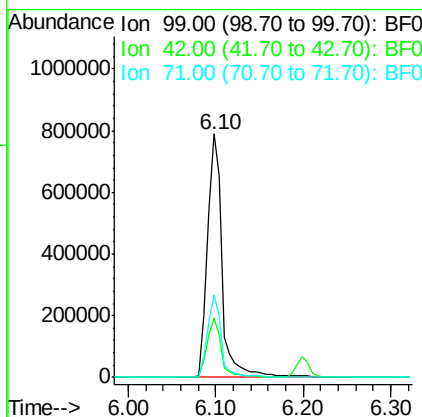
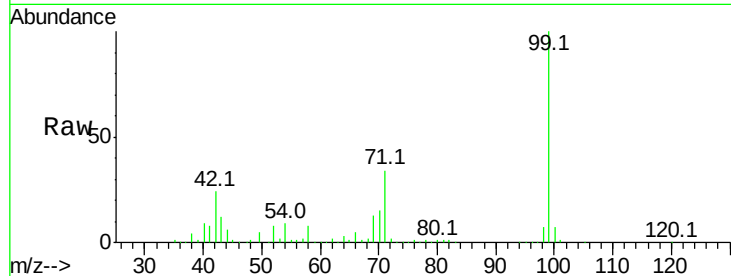
ClientSampleId :

PL-02-080317-B

Tot Ion:	99	Resp:	926764
Ion Ratio	Lower	Upper	
99	100		
42	24.2	13.5	20.3#
71	33.7	24.5	36.7

Manual Integrations
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#10

Phenol

Concen: 2.396 ng

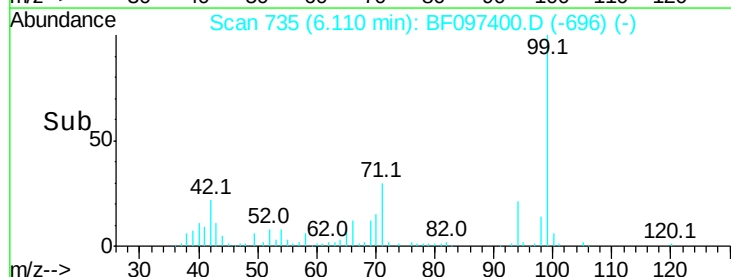
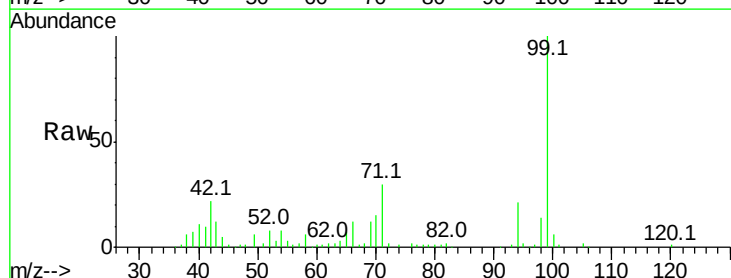
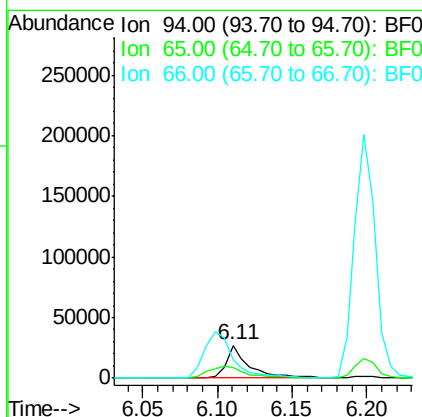
RT: 6.11 min Scan# 735

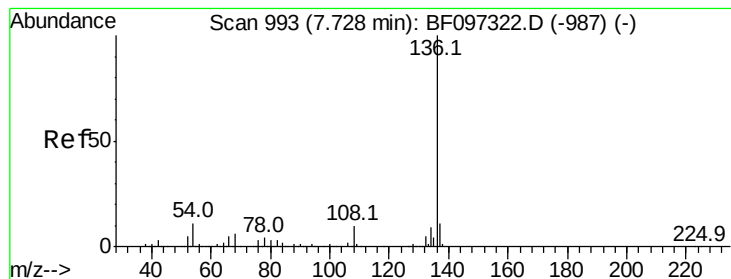
Delta R.T. -0.07 min

Lab File: BF097400.D

Acq: 5 Aug 2017 16:37

Tgt Ion:	94	Resp:	29158
Ion Ratio	Lower	Upper	
94	100		
65	33.1	9.9	49.9
66	56.3	23.1	63.1





#21

Naphthalene-d8

Concen: 20.000 ng

RT: 7.71 min Scan# 1007

Delta R.T. -0.08 min

Lab File: BF097400.D

Acq: 5 Aug 2017 16:37

Instrument :

BNA_F

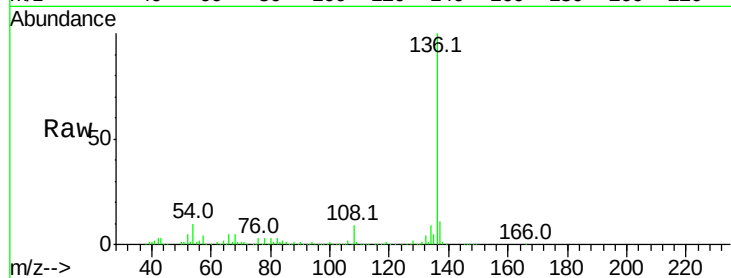
ClientSampleId :

PL-02-080317-B

Tot Ion	Ratio	Resp	Lower	Upper
136	100			
137	10.8	8.5	12.7	
54	10.2	4.9	7.3	
68	5.3	4.1	6.1	

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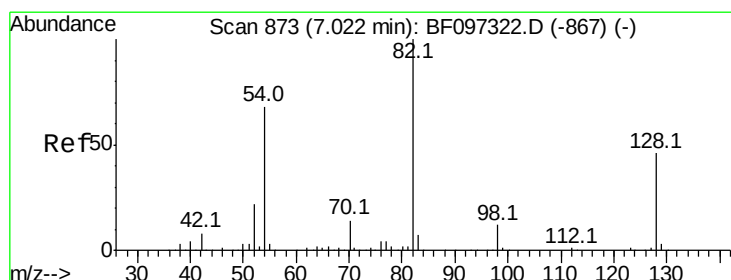
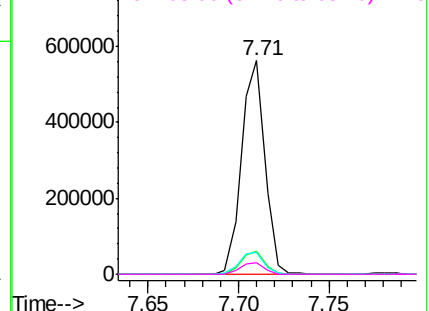
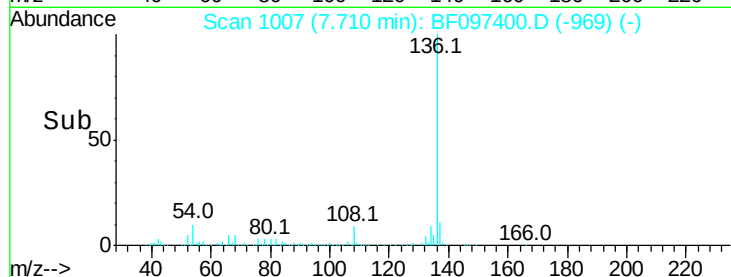


Abundance Ion 136.00 (135.70 to 136.70): E

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: 66.356 ng

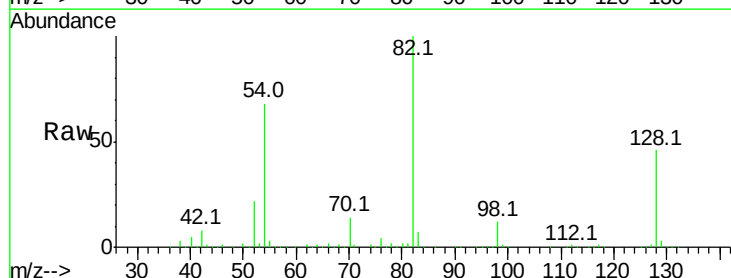
RT: 7.00 min Scan# 886

Delta R.T. -0.08 min

Lab File: BF097400.D

Acq: 5 Aug 2017 16:37

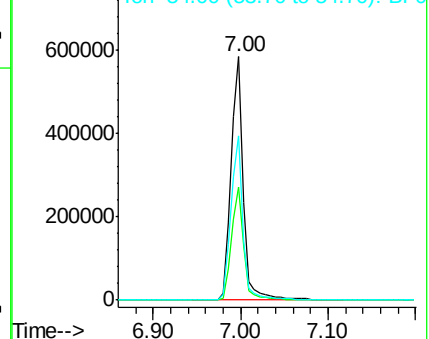
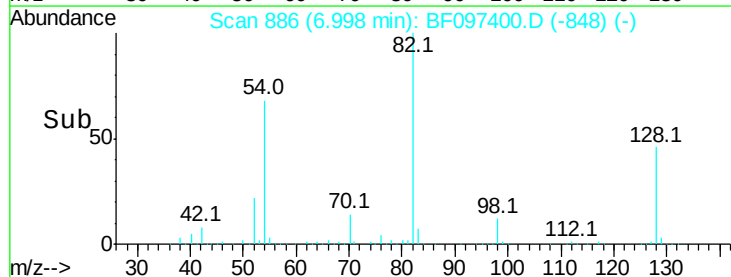
Tgt Ion	Ratio	Resp	Lower	Upper
82	100			
128	46.2	34.0	51.0	
54	67.7	42.2	63.2	

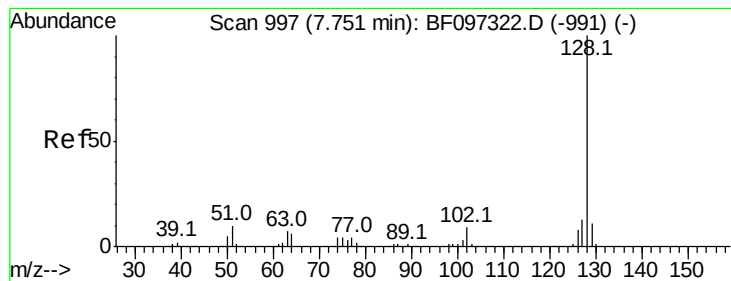


Abundance Ion 82.00 (81.70 to 82.70): BF0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF0





#31

Naphthalene

Concen: 53.151 ng

RT: 7.73 min Scan# 1011

Delta R.T. -0.08 min

Lab File: BF097400.D

Acq: 5 Aug 2017 16:37

Instrument :

BNA_F

ClientSampleId :

PL-02-080317-B

Tot Ion:128 Resp: 1261308

Ion Ratio Lower Upper

128 100

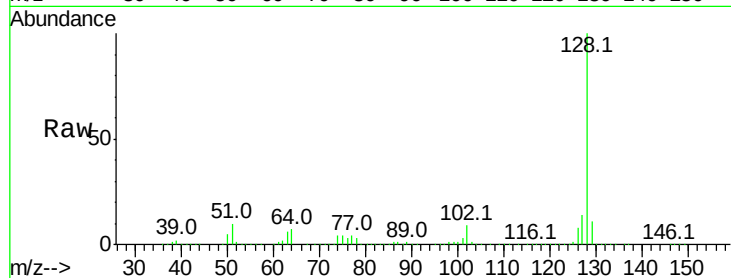
129 11.2 9.0 13.6

127 13.8 10.8 16.2

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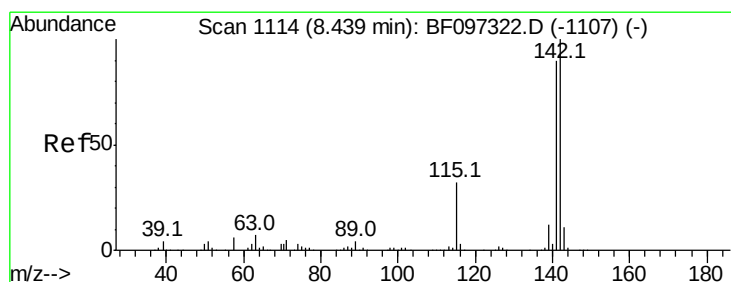
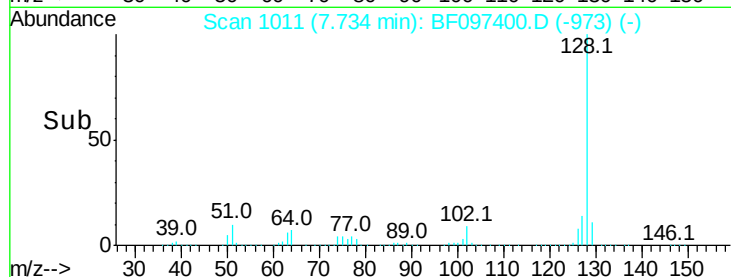
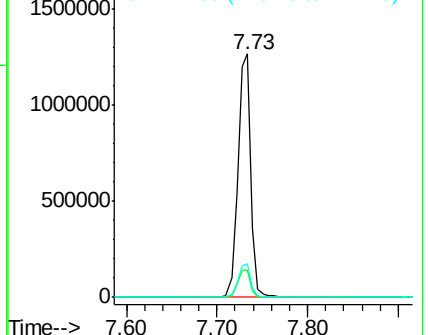
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Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E



#37

2-Methylnaphthalene

Concen: 42.451 ng

RT: 8.42 min Scan# 1128

Delta R.T. -0.08 min

Lab File: BF097400.D

Acq: 5 Aug 2017 16:37

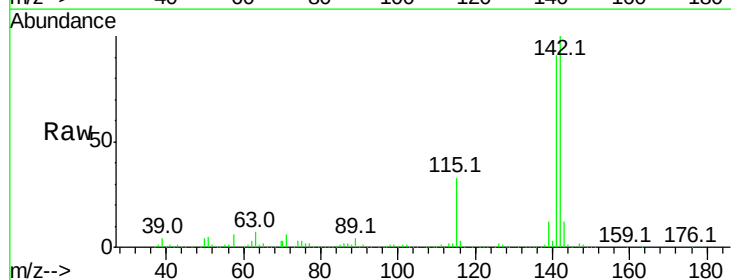
Tgt Ion:142 Resp: 637838

Ion Ratio Lower Upper

142 100

141 91.1 71.3 106.9

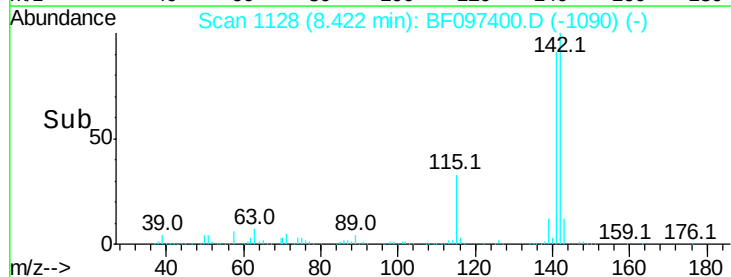
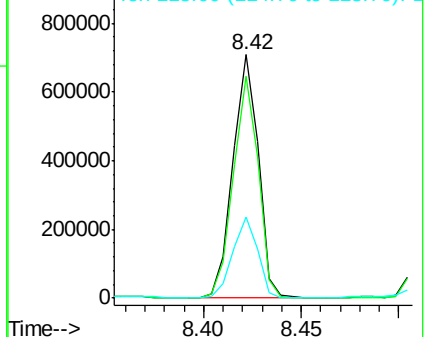
115 33.3 27.1 40.7

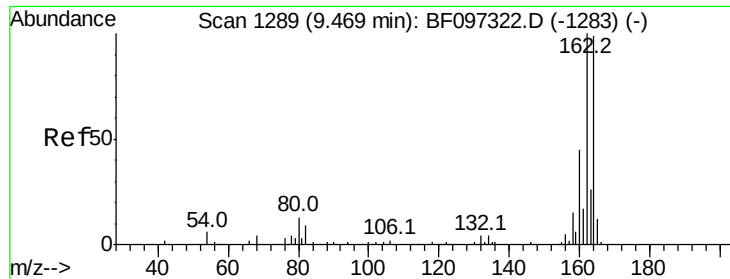


Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 115.00 (114.70 to 115.70): E





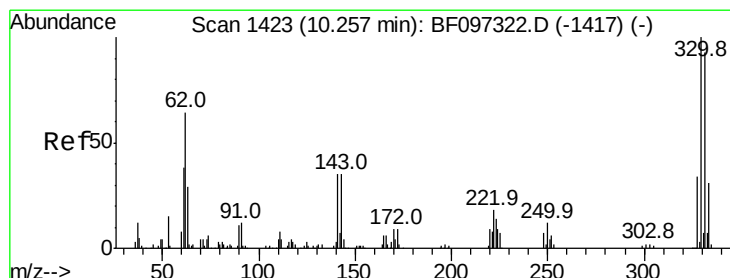
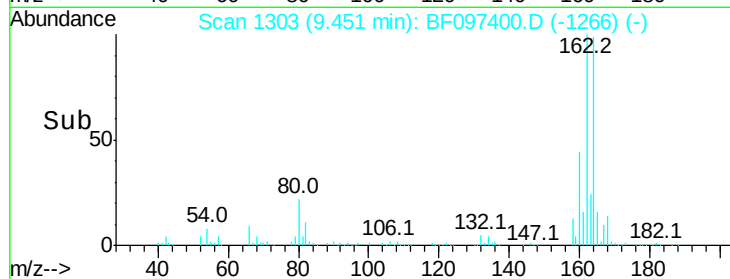
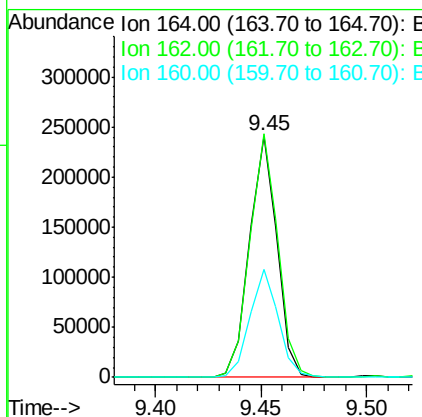
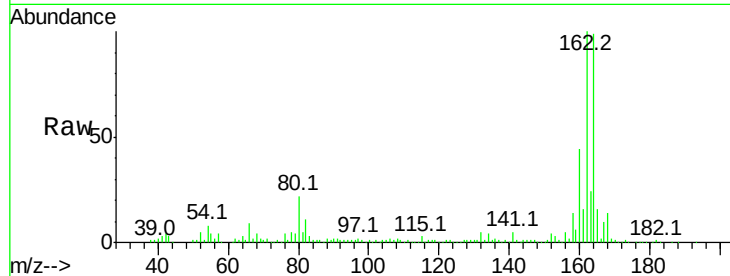
#38
 Acenaphthene-d10
 Concen: 20.000 ng
 RT: 9.45 min Scan# 1303
 Delta R.T. -0.08 min
 Lab File: BF097400.D
 Acq: 5 Aug 2017 16:37

Instrument :
 BNA_F
 ClientSampleId :
 PL-02-080317-B

Tot Ion	Ratio	Resp	Lower	Upper
164	100	218972		
162	100.8	82.6	123.8	
160	44.7	36.2	54.2	

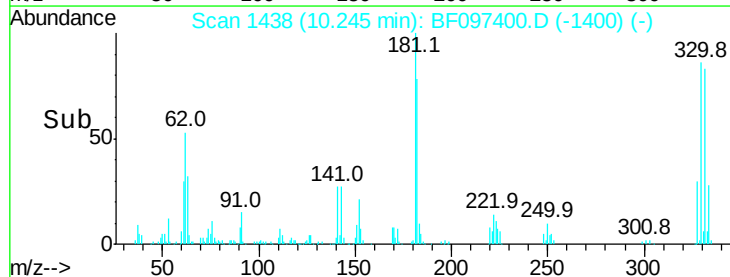
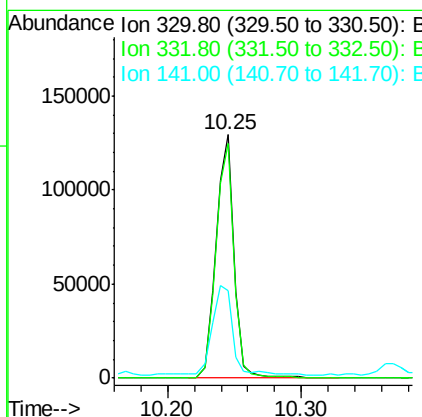
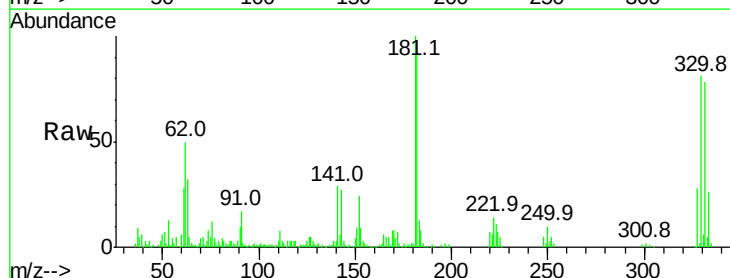
Manual Integrations
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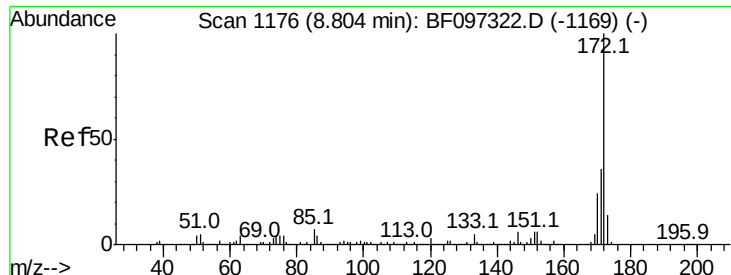
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#41
 2,4,6-Tribromophenol
 Concen: 71.127 ng
 RT: 10.25 min Scan# 1438
 Delta R.T. -0.08 min
 Lab File: BF097400.D
 Acq: 5 Aug 2017 16:37

Tgt Ion	Ratio	Resp	Lower	Upper
330	100	123056		
332	97.5	76.6	115.0	
141	39.7	31.4	47.2	





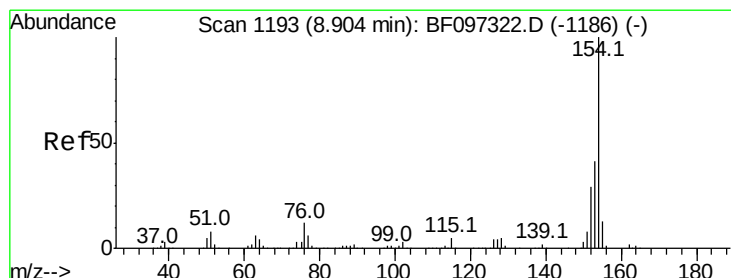
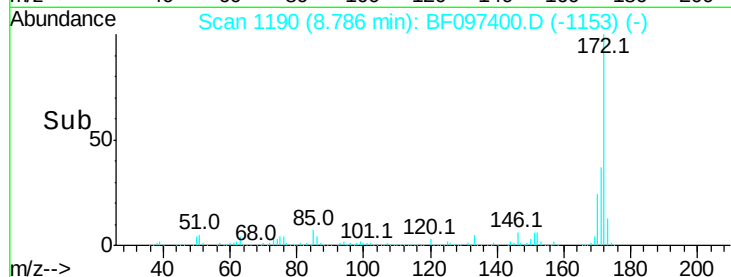
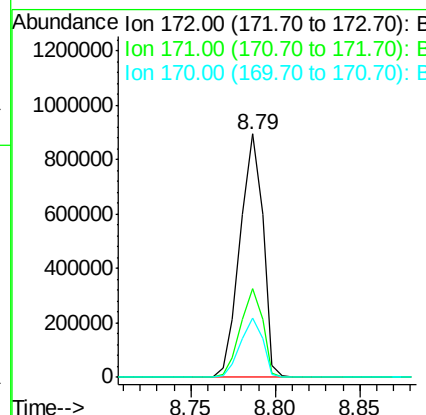
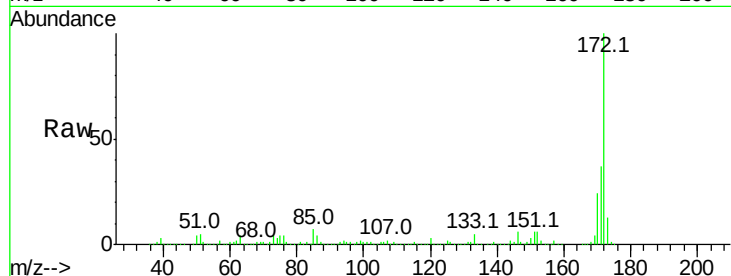
#44
2-Fluorobiphenyl
Concen: 65.694 ng
RT: 8.79 min Scan# 1190
Delta R.T. -0.08 min
Lab File: BF097400.D
Acq: 5 Aug 2017 16:37

Instrument :
BNA_F
ClientSampleId :
PL-02-080317-B

Tot Ion	Ratio	Resp	Lower	Upper
172	100	847634		
171	36.6		29.6	44.4
170	24.2		19.8	29.8

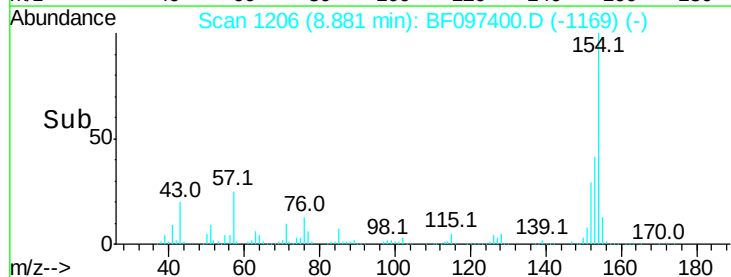
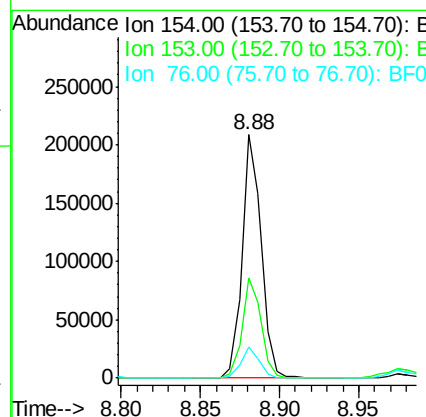
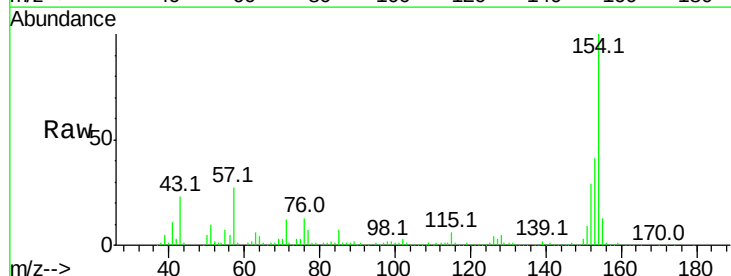
Manual Integrations
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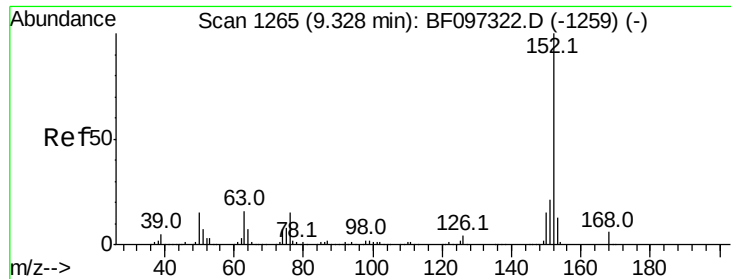
Sohil
8/7/2017 6:00:44 PM



#45
1,1'-Biphenyl
Concen: 9.328 ng
RT: 8.88 min Scan# 1206
Delta R.T. -0.08 min
Lab File: BF097400.D
Acq: 5 Aug 2017 16:37

Tgt Ion	Ratio	Resp	Lower	Upper
154	100	174473		
153	41.4		21.2	61.2
76	12.8		0.0	29.9





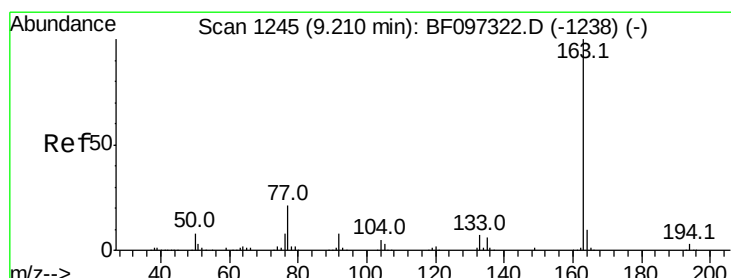
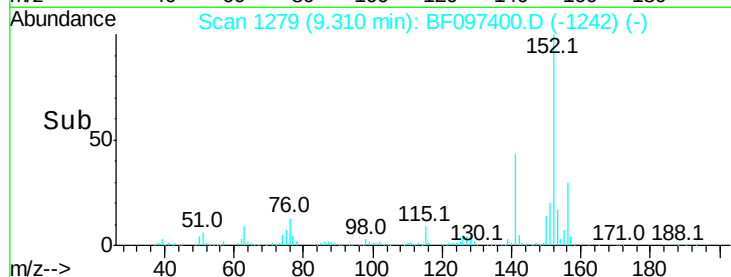
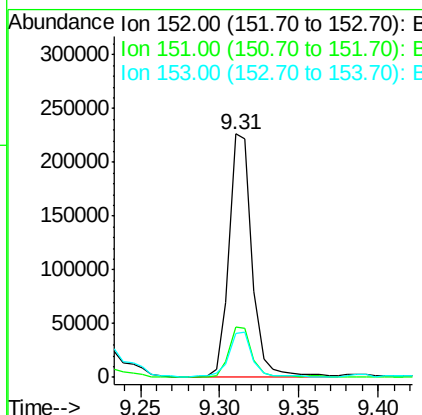
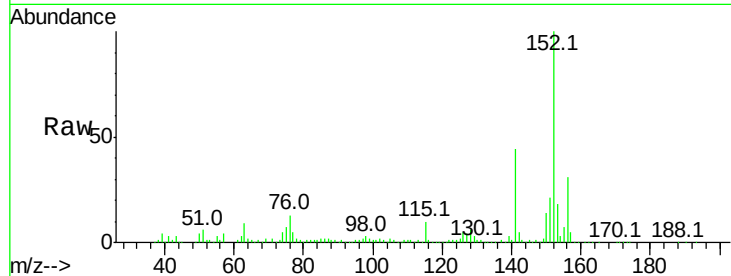
#48
Acenaphthylene
Concen: 10.805 ng
RT: 9.31 min Scan# 1279
Delta R.T. -0.08 min
Lab File: BF097400.D
Acq: 5 Aug 2017 16:37

Instrument :
BNA_F
ClientSampleId :
PL-02-080317-B

Tot Ion	Ratio	Resp	Lower	Upper
152	100	228259		
151	20.6		16.8	25.2
153	17.8		10.8	16.2#

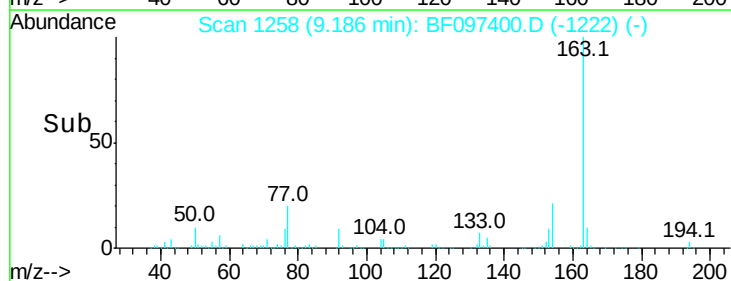
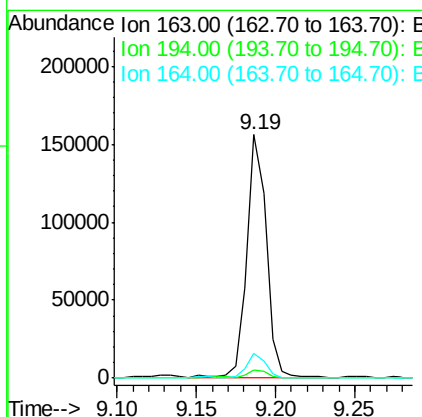
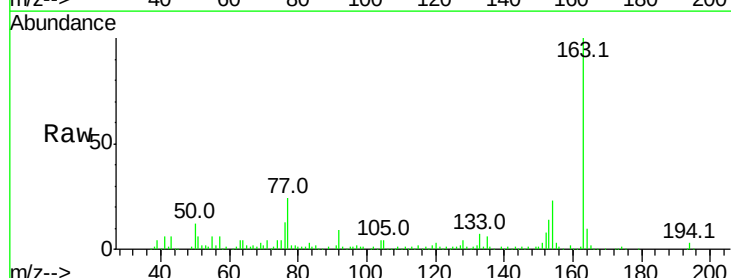
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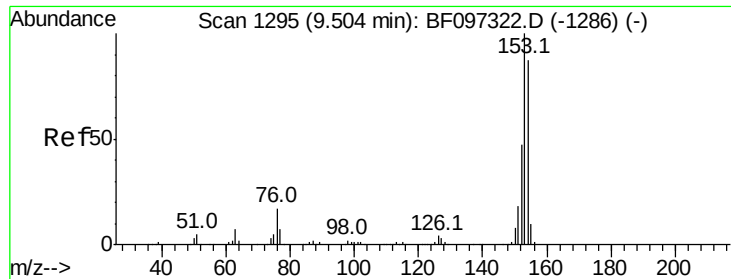
Sohil
8/7/2017 6:00:44 PM



#49
Dimethylphthalate
Concen: 7.867 ng
RT: 9.19 min Scan# 1258
Delta R.T. -0.09 min
Lab File: BF097400.D
Acq: 5 Aug 2017 16:37

Tgt Ion	Ratio	Resp	Lower	Upper
163	100	130809		
194	3.2		2.6	4.0
164	10.0		8.4	12.6





#51

Acenaphthene

Concen: 70.263 ng

RT: 9.49 min Scan# 1310

Delta R.T. -0.08 min

Lab File: BF097400.D

Acq: 5 Aug 2017 16:37

Instrument :

BNA_F

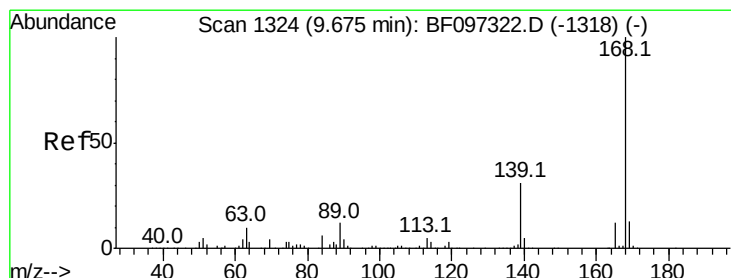
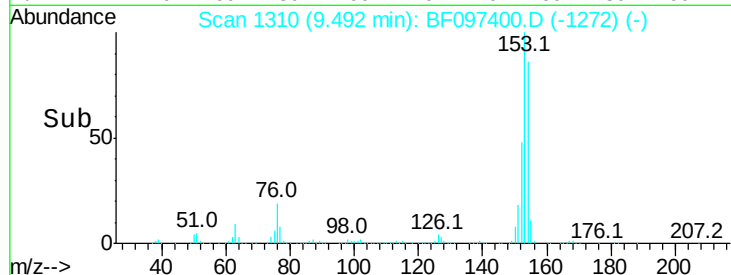
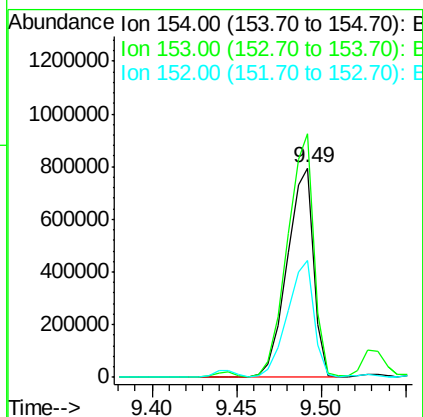
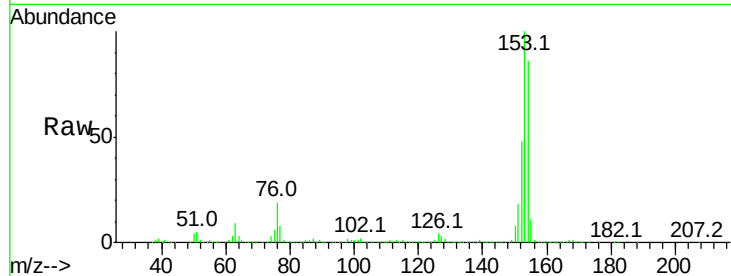
ClientSampleId :

PL-02-080317-B

Tot Ion:	154	Resp:	874346
Ion	Ratio	Lower	Upper
154	100		
153	116.1	90.5	135.7
152	56.0	43.6	65.4

Manual Integrations
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Sohil
8/7/2017 6:00:44 PM



#54

Dibenzofuran

Concen: 67.475 ng

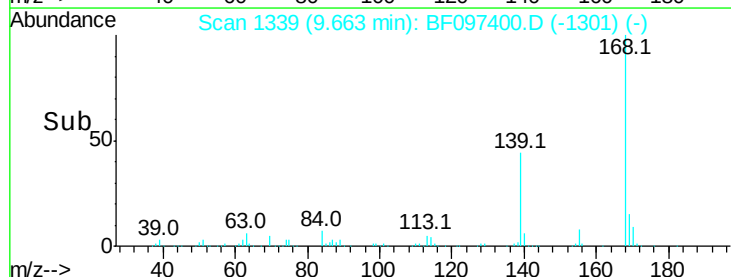
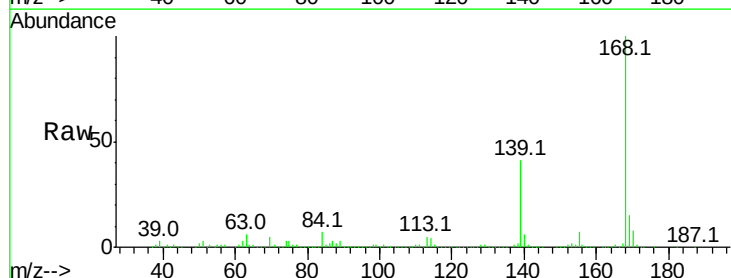
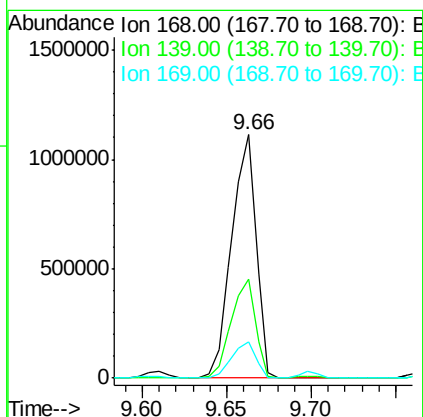
RT: 9.66 min Scan# 1339

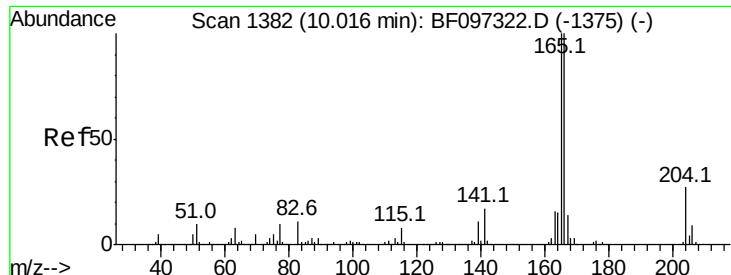
Delta R.T. -0.08 min

Lab File: BF097400.D

Acq: 5 Aug 2017 16:37

Tgt Ion:	168	Resp:	1118392
Ion	Ratio	Lower	Upper
168	100		
139	40.7	30.6	45.8
169	14.6	10.8	16.2





#57

Fluorene

Concen: 110.520 ng

RT: 10.01 min Scan# 1398

Delta R.T. -0.07 min

Lab File: BF097400.D

Acq: 5 Aug 2017 16:37

Instrument :

BNA_F

ClientSampleId :

PL-02-080317-B

Tot Ion:166 Resp: 1376826

Ion Ratio Lower Upper

166 100

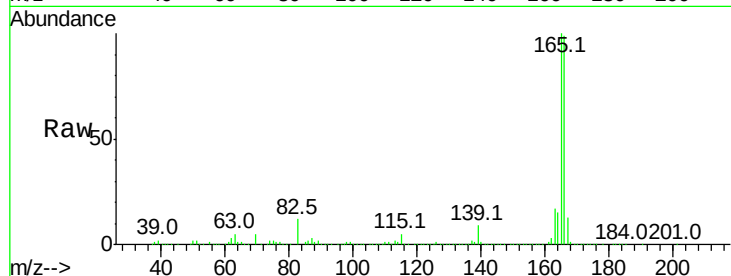
165 100.5 78.8 118.2

167 13.4 10.6 16.0

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Sohil

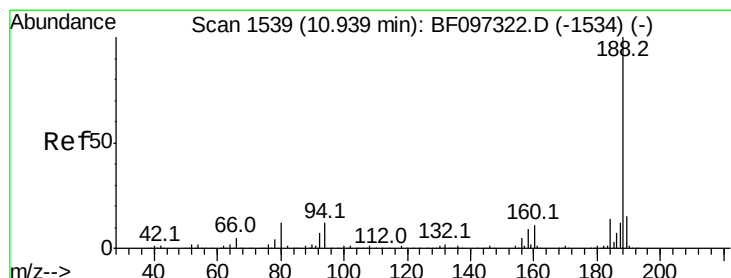
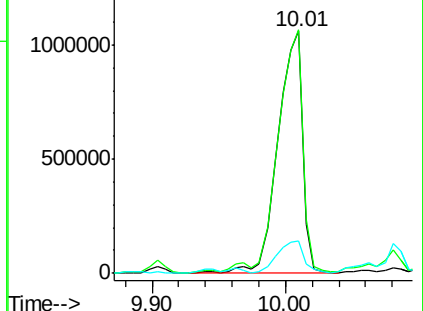
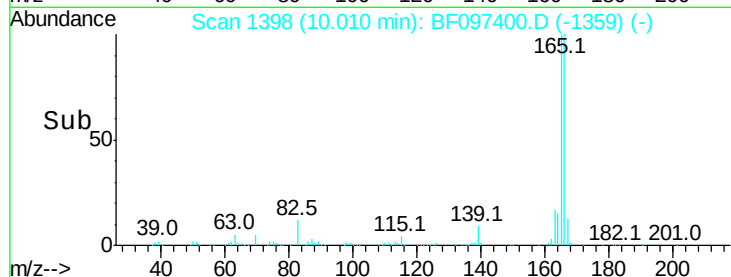
8/7/2017 6:00:44 PM



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: 10.93 min Scan# 1554

Delta R.T. -0.08 min

Lab File: BF097400.D

Acq: 5 Aug 2017 16:37

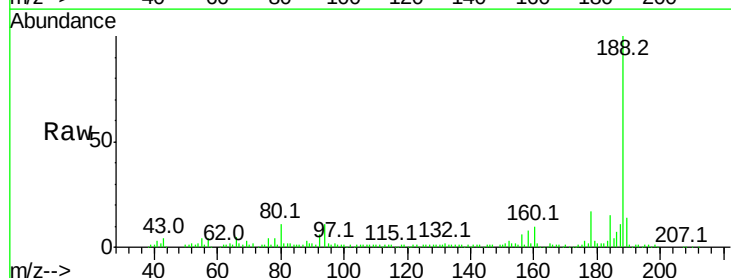
Tgt Ion:188 Resp: 239138

Ion Ratio Lower Upper

188 100

94 11.1 9.4 14.2

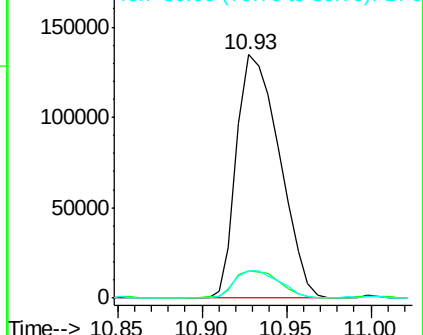
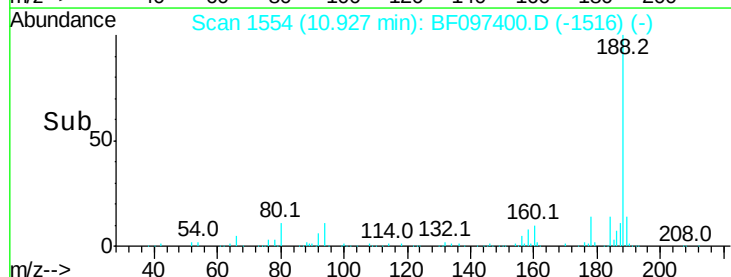
80 11.4 10.2 15.2

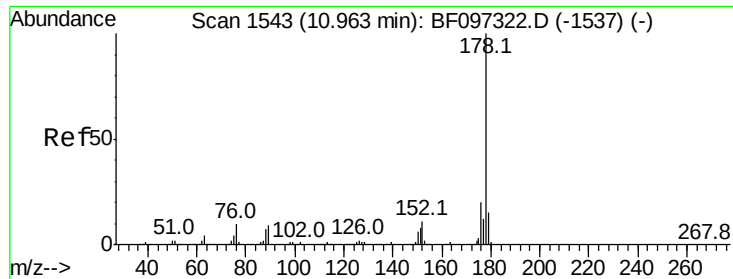


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF0

Ion 80.00 (79.70 to 80.70): BF0





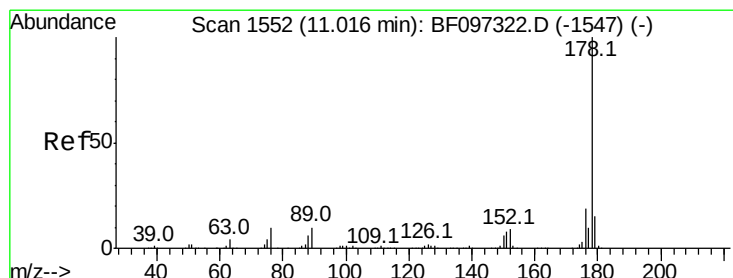
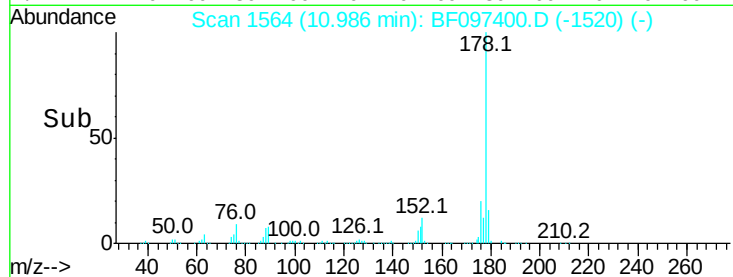
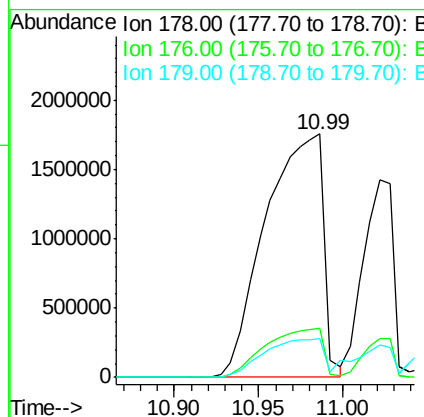
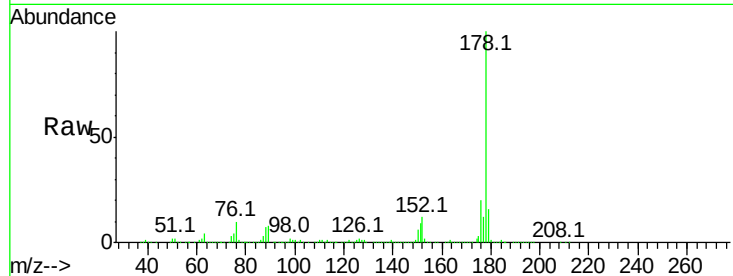
#70
Phenanthrene
Concen: 325.715 ng
RT: 10.99 min Scan# 1564
Delta R.T. -0.04 min
Lab File: BF097400.D
Acq: 5 Aug 2017 16:37

Instrument :
BNA_F
ClientSampleId :
PL-02-080317-B

Tot Ion:178 Resp: 4173420
Ion Ratio Lower Upper
178 100
176 20.3 16.2 24.4
179 15.8 12.6 19.0

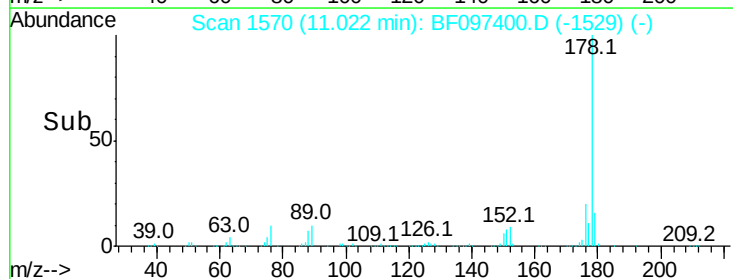
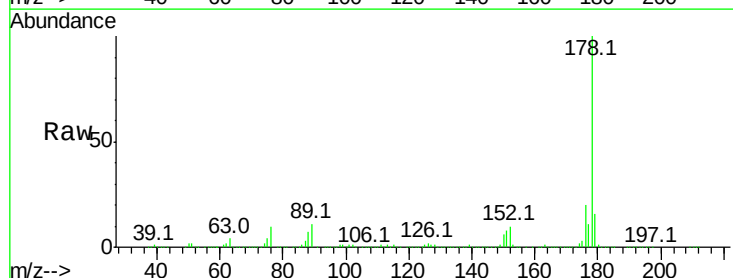
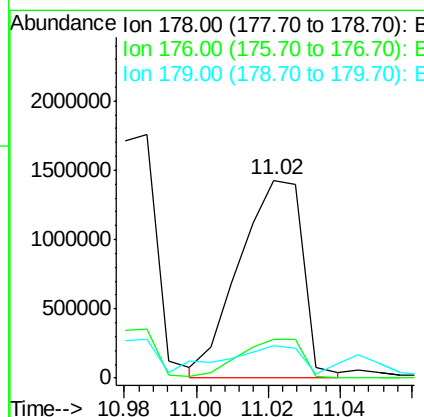
Manual Integrations
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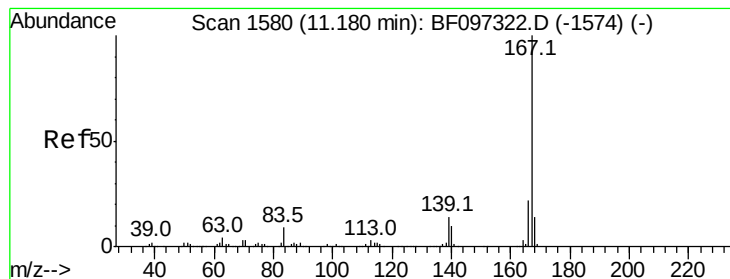
Sohil
8/7/2017 6:00:44 PM



#71
Anthracene
Concen: 133.898 ng m
RT: 11.02 min Scan# 1570
Delta R.T. -0.06 min
Lab File: BF097400.D
Acq: 5 Aug 2017 16:37

Tgt Ion:178 Resp: 1757192
Ion Ratio Lower Upper
178 100
176 19.7 15.8 23.8
179 16.2 12.7 19.1





#72

Carbazole

Concen: 63.033 ng

RT: 11.17 min Scan# 1595

Delta R.T. -0.07 min

Lab File: BF097400.D

Acq: 5 Aug 2017 16:37

Instrument :

BNA_F

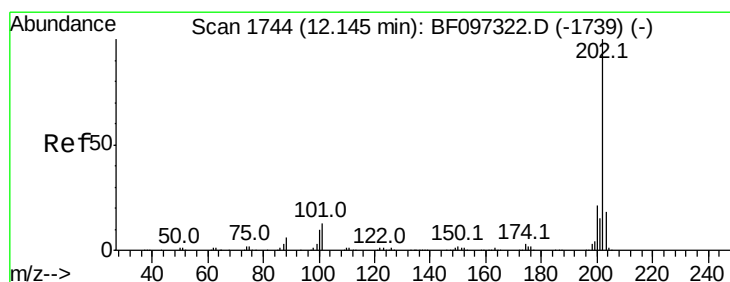
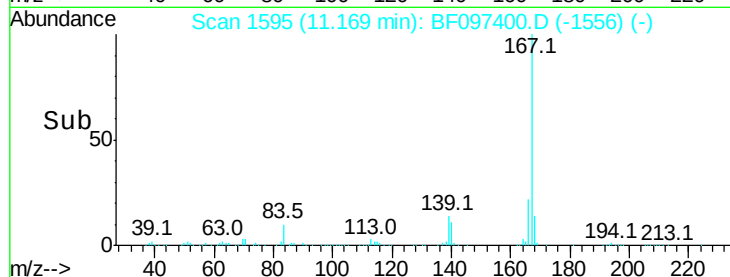
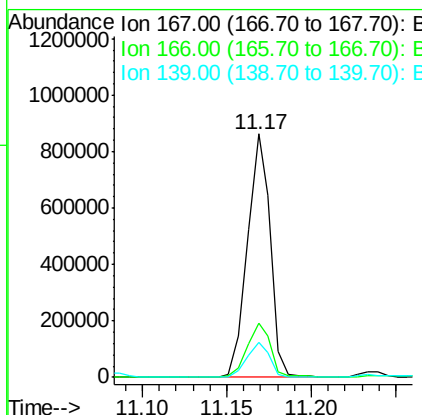
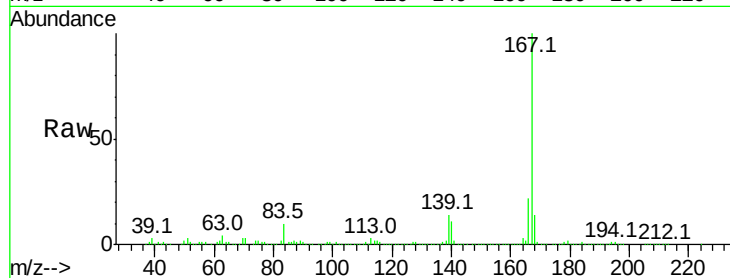
ClientSampleId :

PL-02-080317-B

Tot Ion:	167	Resp:	813536
Ion Ratio	Lower	Upper	
167	100		
166	22.4	18.1	27.1
139	14.4	11.7	17.5

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8/7/2017 6:00:44 PM



#74

Fluoranthene

Concen: 298.649 ng

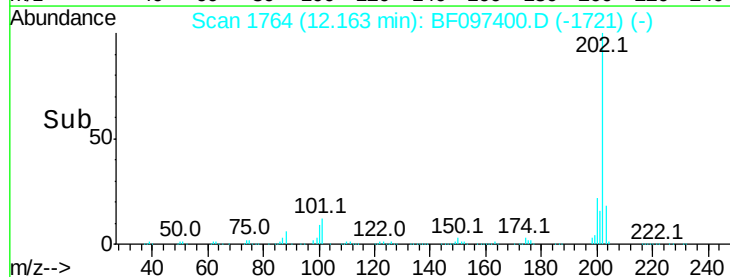
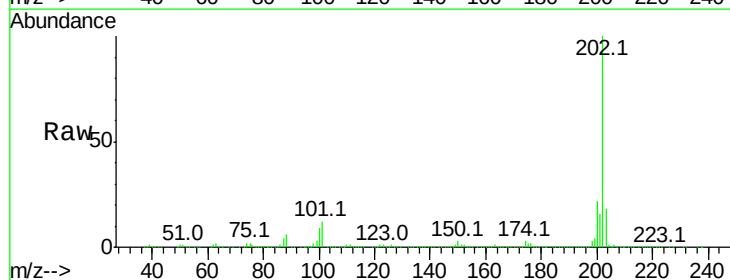
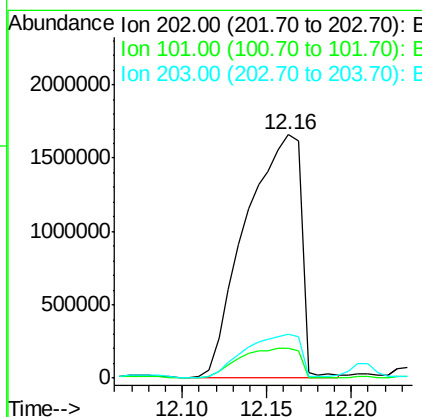
RT: 12.16 min Scan# 1764

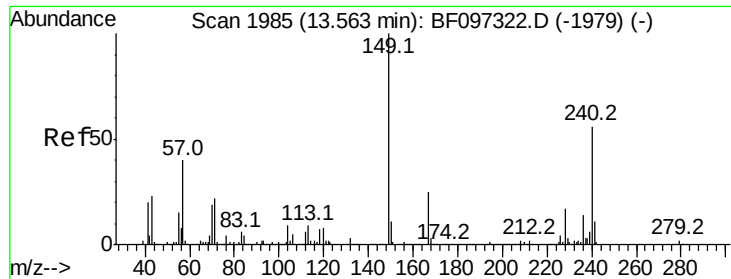
Delta R.T. -0.05 min

Lab File: BF097400.D

Acq: 5 Aug 2017 16:37

Tgt Ion:	202	Resp:	3748765
Ion Ratio	Lower	Upper	
202	100		
101	12.4	0.0	33.2
203	17.9	0.0	38.1





#75

Chrysene-d12

Concen: 20.000 ng

RT: 13.57 min Scan# 2003

Delta R.T. -0.06 min

Lab File: BF097400.D

Acq: 5 Aug 2017 16:37

Instrument :

BNA_F

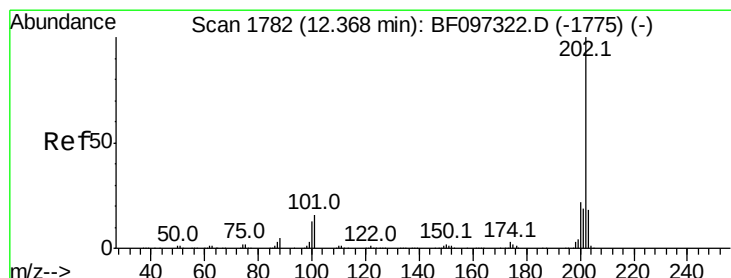
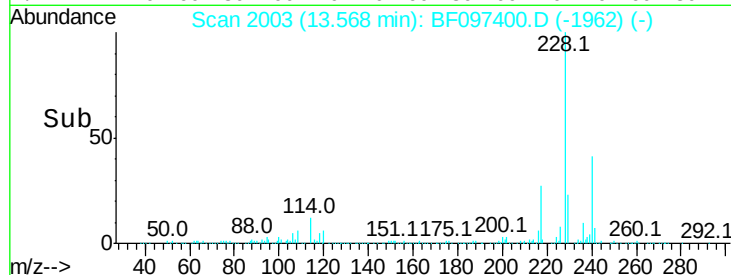
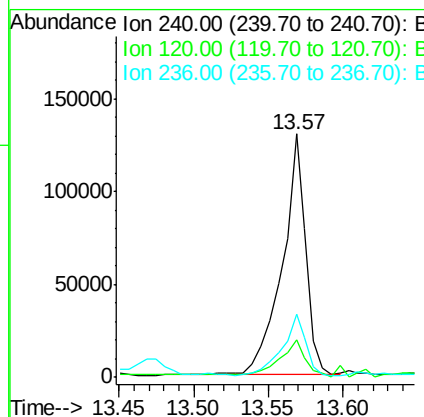
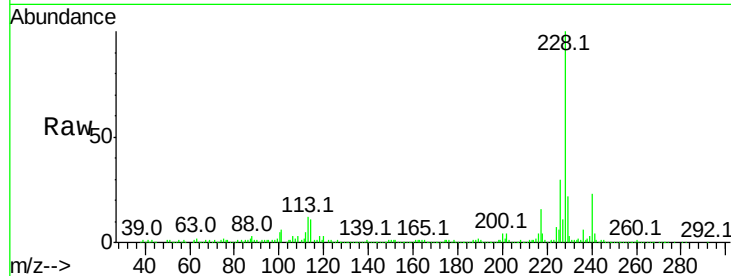
ClientSampleId :

PL-02-080317-B

Tot Ion	Ratio	Lower	Upper
240	100		
120	15.2	5.8	8.8#
236	25.9	20.5	30.7

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Sohil
8/7/2017 6:00:44 PM



#77

Pyrene

Concen: 254.785 ng

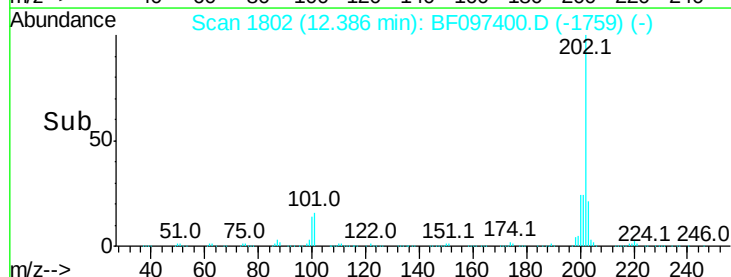
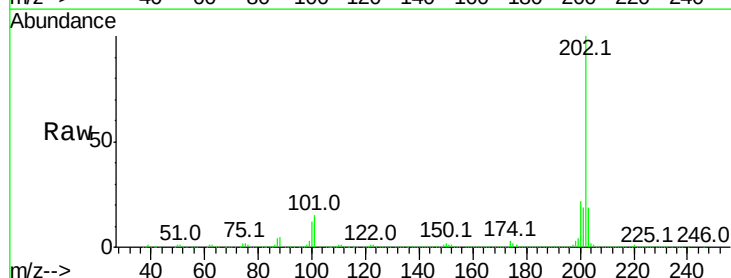
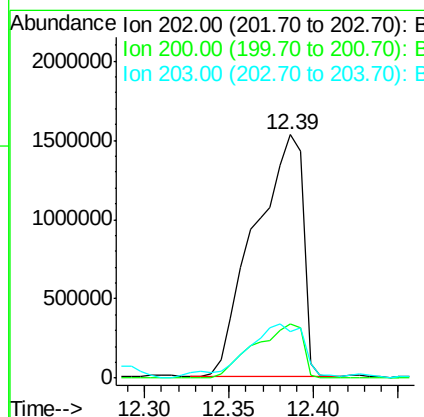
RT: 12.39 min Scan# 1802

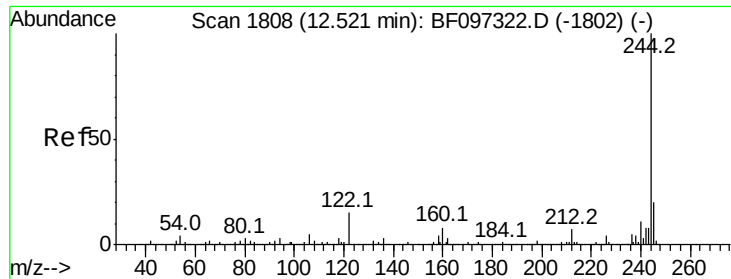
Delta R.T. -0.05 min

Lab File: BF097400.D

Acq: 5 Aug 2017 16:37

Tgt Ion	Ratio	Lower	Upper
202	100		
200	22.5	17.6	26.4
203	19.0	14.4	21.6





#78

Terphenyl-d14

Concen: 66.517 ng

RT: 12.51 min Scan# 1823

Delta R.T. -0.08 min

Lab File: BF097400.D

Acq: 5 Aug 2017 16:37

Instrument :

BNA_F

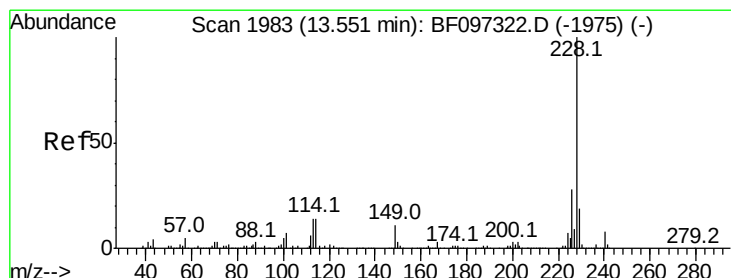
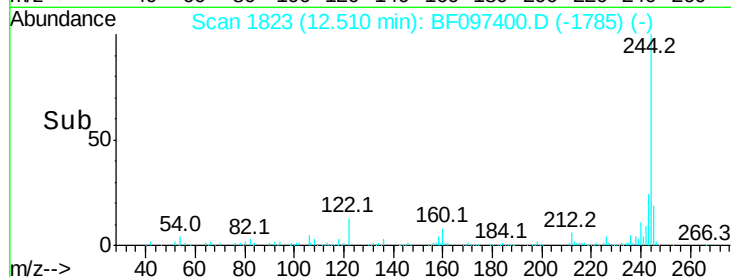
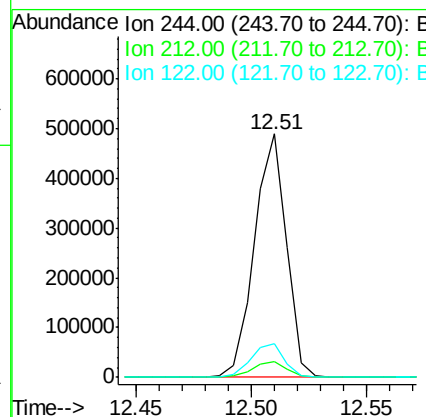
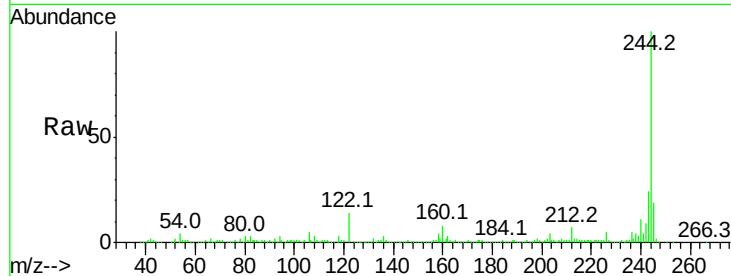
ClientSampleId :

PL-02-080317-B

Tot Ion:	244	Resp:	471524
Ion Ratio	Lower	Upper	
244	100		
212	6.6	6.0	9.0
122	13.6	10.3	15.5

Manual Integrations
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Sohil
8/7/2017 6:00:44 PM



#80

Benzo(a)anthracene

Concen: 200.948 ng

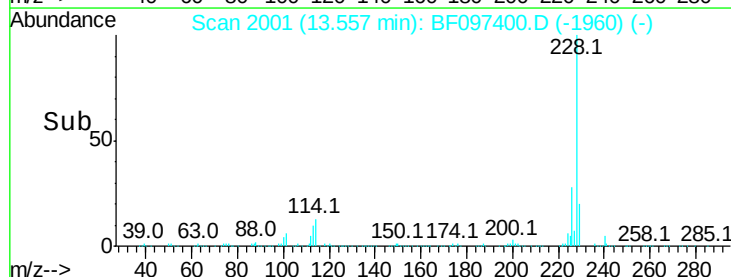
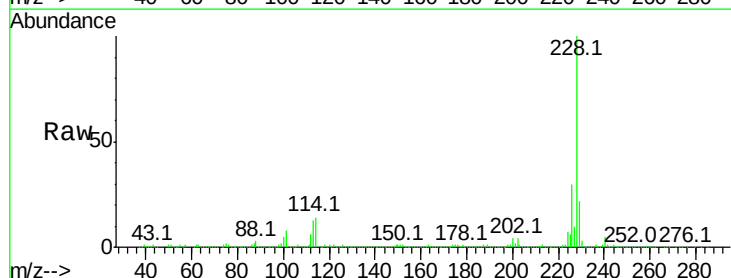
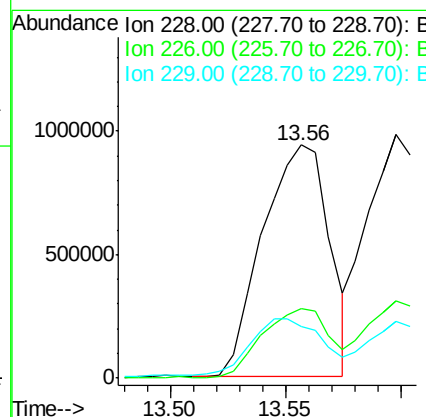
RT: 13.56 min Scan# 2001

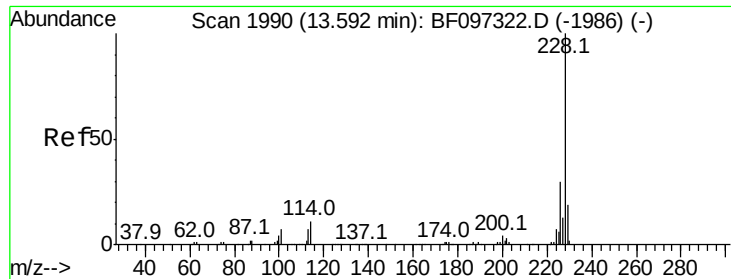
Delta R.T. -0.06 min

Lab File: BF097400.D

Acq: 5 Aug 2017 16:37

Tgt Ion:	228	Resp:	1879211
Ion Ratio	Lower	Upper	
228	100		
226	29.6	22.6	33.8
229	22.0	16.3	24.5





#82

Chrysene

Concen: 152.755 ng

RT: 13.60 min Scan# 2008

Delta R.T. -0.06 min

Lab File: BF097400.D

Acq: 5 Aug 2017 16:37

Instrument :

BNA_F

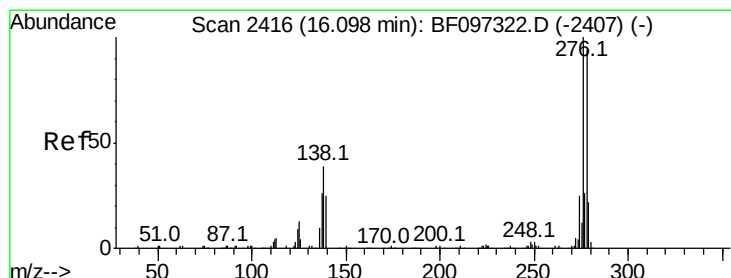
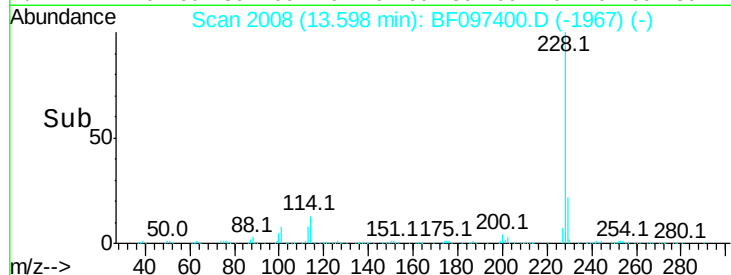
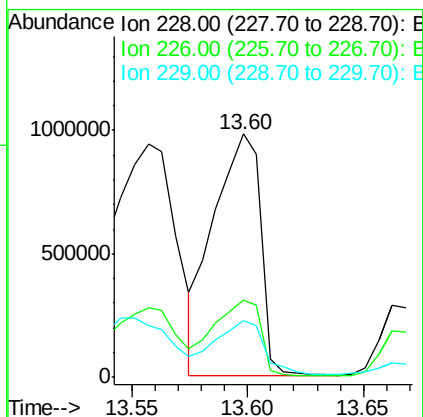
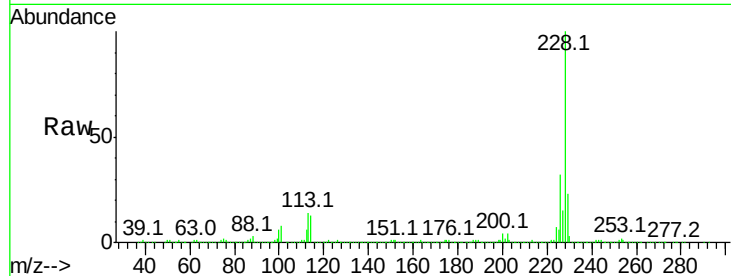
ClientSampleId :

PL-02-080317-B

Tot Ion:	228	Resp:	1394905
Ion	Ratio	Lower	Upper
228	100		
226	31.7	24.9	37.3
229	23.1	15.8	23.6

Manual Integrations
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Sohil
8/7/2017 6:00:44 PM



#85

Indeno(1,2,3-cd)pyrene

Concen: 85.624 ng

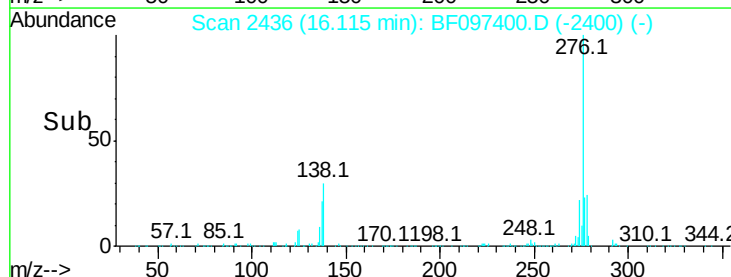
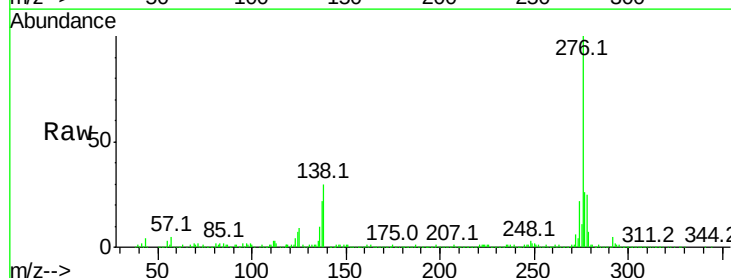
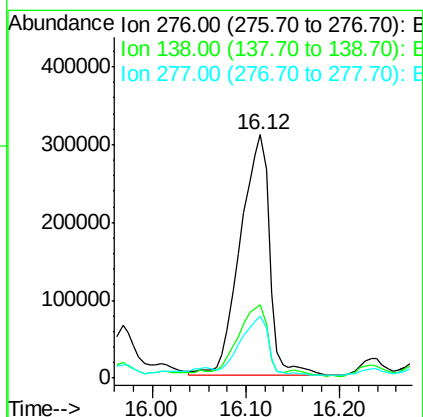
RT: 16.12 min Scan# 2436

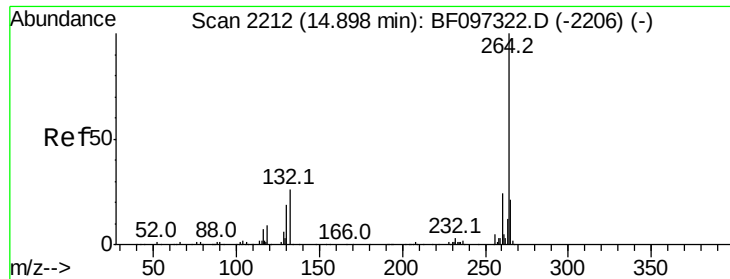
Delta R.T. -0.09 min

Lab File: BF097400.D

Acq: 5 Aug 2017 16:37

Tgt Ion:	276	Resp:	670451
Ion	Ratio	Lower	Upper
276	100		
138	26.7	27.8	41.6#
277	24.7	20.2	30.4





#86

Pervlene-d12

Concen: 20.000 ng

RT: 14.90 min Scan# 2230

Delta R.T. -0.07 min

Lab File: BF097400.D

Acq: 5 Aug 2017 16:37

Instrument :

BNA_F

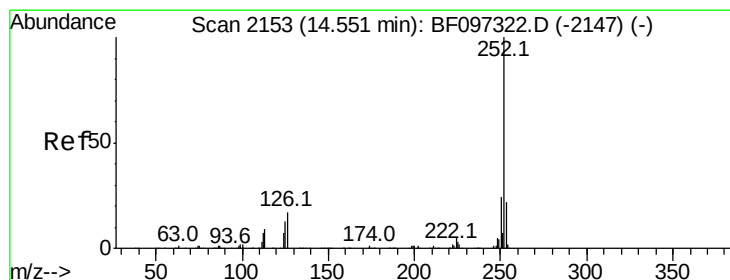
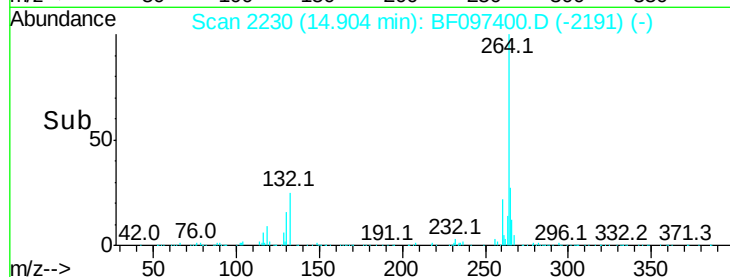
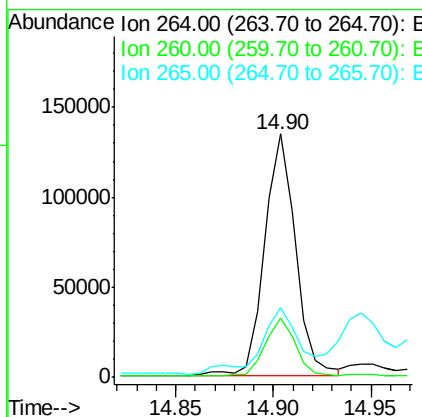
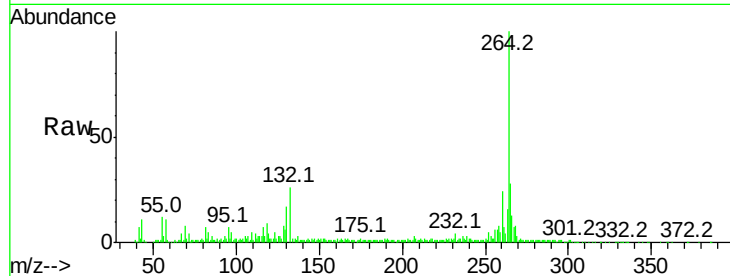
ClientSampleId :

PL-02-080317-B

Tot Ion:	264	Resp:	148815
Ion Ratio	Lower	Upper	
264	100		
260	24.5	19.5	29.3
265	28.5	17.2	25.8

Manual Integrations
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Sohil
8/7/2017 6:00:44 PM



#87

Benzo(b)fluoranthene

Concen: 181.814 ng m

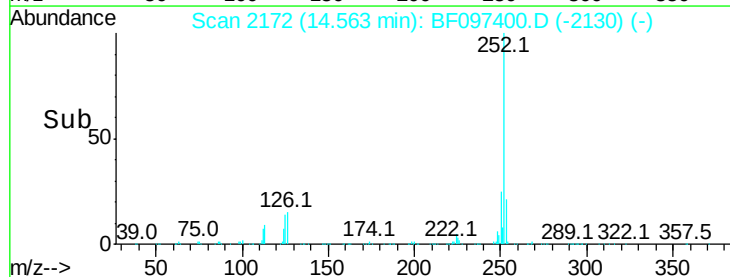
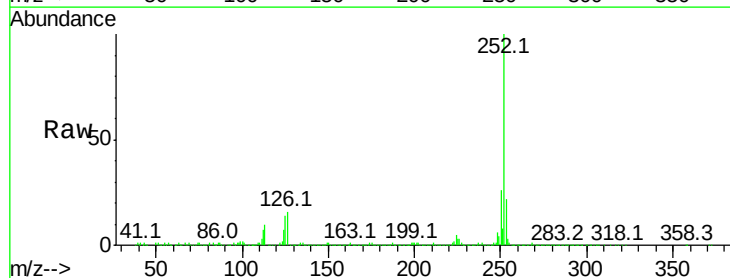
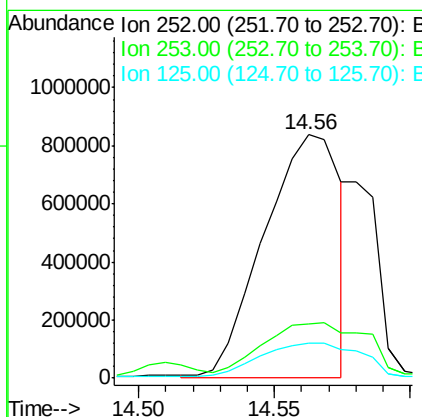
RT: 14.56 min Scan# 2172

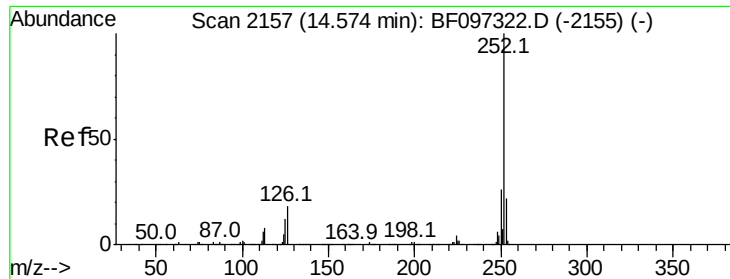
Delta R.T. -0.05 min

Lab File: BF097400.D

Acq: 5 Aug 2017 16:37

Tgt Ion:	252	Resp:	1626438
Ion Ratio	Lower	Upper	
252	100		
253	22.4	18.1	27.1
125	14.2	9.8	14.8





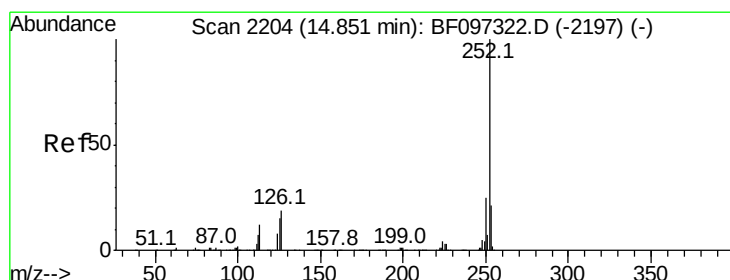
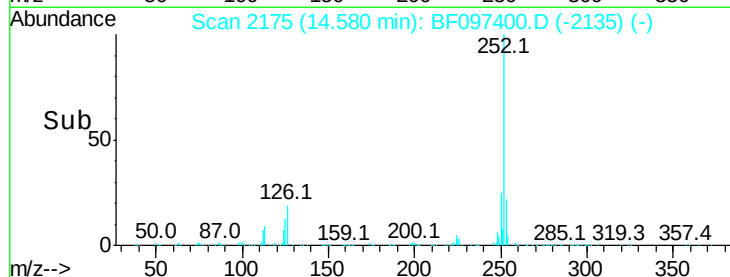
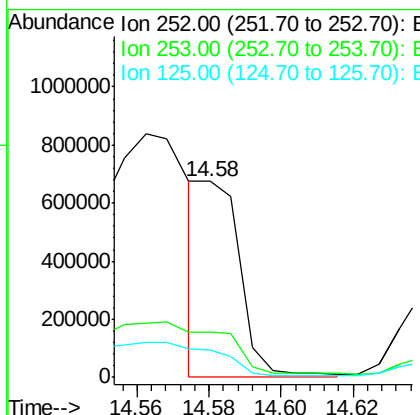
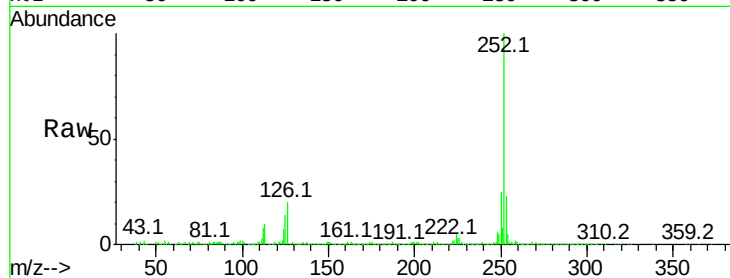
#88
Benzo(k)fluoranthene
Concen: 60.747 ng m
RT: 14.58 min Scan# 2175
Delta R.T. -0.06 min
Lab File: BF097400.D
Acq: 5 Aug 2017 16:37

Instrument :
BNA_F
ClientSampleId :
PL-02-080317-B

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.9	18.4	27.6
125	14.1	13.1	19.7

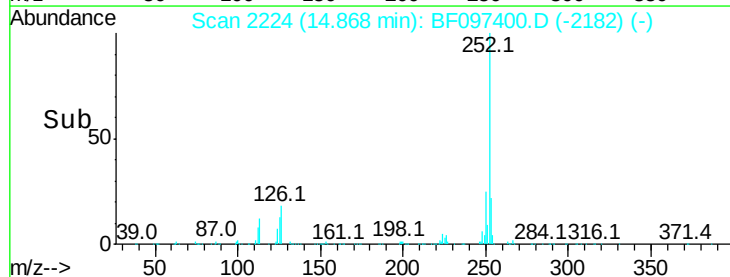
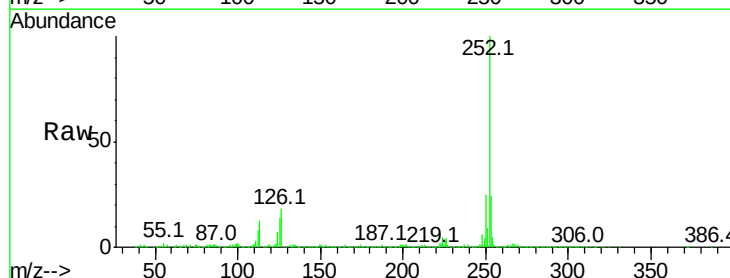
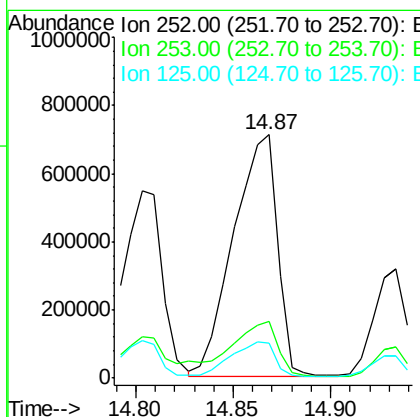
Manual Integrations
APPROVED

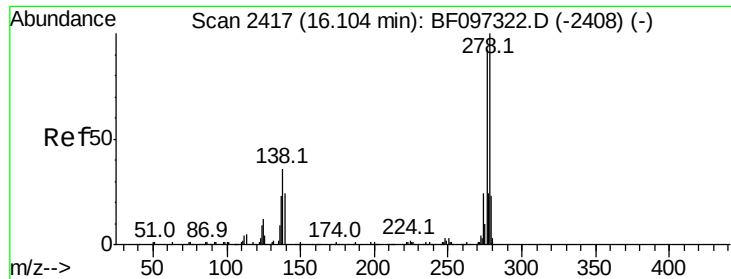
Sohil
8/7/2017 6:00:44 PM



#89
Benzo(a)pyrene
Concen: 135.874 ng
RT: 14.87 min Scan# 2224
Delta R.T. -0.05 min
Lab File: BF097400.D
Acq: 5 Aug 2017 16:37

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.5	17.5	26.3
125	14.1	11.0	16.4





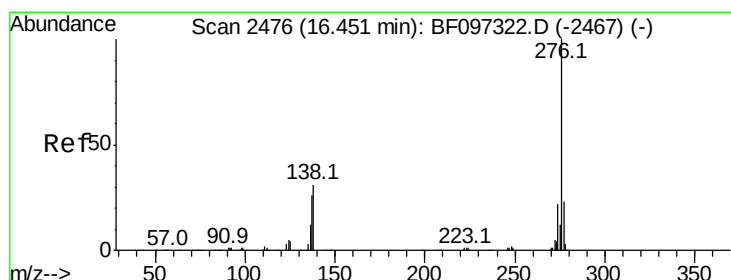
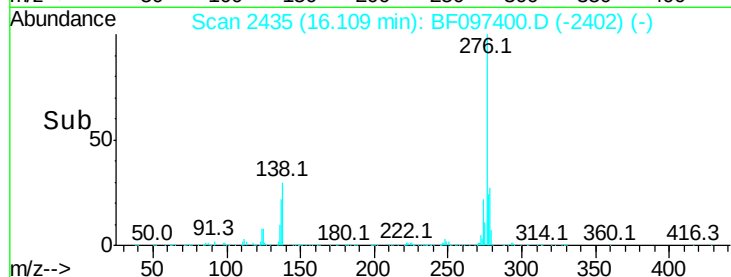
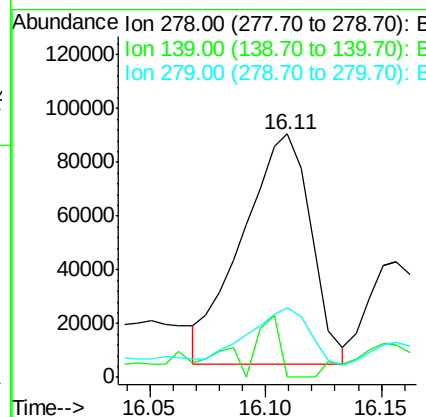
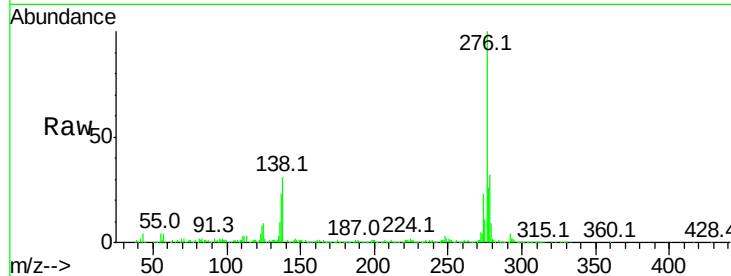
#90
Dibenzo(a,h)anthracene
Concen: 26.255 ng
RT: 16.11 min Scan# 2435
Delta R.T. -0.11 min
Lab File: BF097400.D
Acq: 5 Aug 2017 16:37

Instrument :
BNA_F
ClientSampleId :
PL-02-080317-B

Tot Ion	Ratio	Lower	Upper
278	100		
139	0.0	16.6	24.8#
279	28.6	19.3	28.9

Manual Integrations
APPROVED

Sohil
8/7/2017 6:00:44 PM



#91
Benzo(g,h,i)perylene
Concen: 87.087 ng
RT: 16.47 min Scan# 2497
Delta R.T. -0.09 min
Lab File: BF097400.D
Acq: 5 Aug 2017 16:37

Tgt Ion	Ratio	Lower	Upper
276	100		
277	25.4	18.6	28.0
138	32.0	25.4	38.0

