

Data Path : Z:\HPCHEM1\BNA F\DATA\BF080317\
 Data File : BF097346.D
 Acq On : 4 Aug 2017 5:00
 Operator : SJ/JU
 Sample : I4562-07
 Misc :
 ALS Vial : 26 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 JC-02-080117-C

Manual Integrations
 APPROVED

Sohil
 8/4/2017 5:31:10 PM

Quant Time: Aug 04 05:56:15 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	6.45	152	99429	20.00	ng	-0.05
21) Naphthalene-d8	7.73	136	374183	20.00	ng	-0.05
38) Acenaphthene-d10	9.47	164	148048	20.00	ng	-0.06
63) Phenanthrene-d10	10.94	188	235050	20.00	ng	-0.06
75) Chrysene-d12	13.57	240	140385	20.00	ng	-0.06
86) Perylene-d12	14.92	264	96160	20.00	ng	-0.06
System Monitoring Compounds						
5) 2-Fluorophenol	5.05	112	564932	85.65	ng	-0.05
7) Phenol-d6	6.12	99	695339	92.35	ng	-0.05
23) Nitrobenzene-d5	7.02	82	356275	55.86	ng	-0.06
41) 2,4,6-Tribromophenol	10.26	330	93187	79.67	ng	-0.06
44) 2-Fluorobiphenyl	8.81	172	604546	69.30	ng	-0.06
78) Terphenyl-d14	12.53	244	402477	58.45	ng	-0.06
Target Compounds						Qvalue
31) Naphthalene	7.75	128	443207	25.127	ng	99
37) 2-Methylnaphthalene	8.44	142	108798	9.742	ng	98
45) 1,1'-Biphenyl	8.90	154	27689	2.190	ng	98
49) Dimethylphthalate	9.20	163	93692	8.334	ng	99
51) Acenaphthene	9.50	154	93993	11.172	ng	97
54) Dibenzofuran	9.67	168	114935	10.256	ng	94
57) Fluorene	10.02	166	152621	18.120	ng	99
70) Phenanthrene	10.97	178	735480	58.399	ng	98
71) Anthracene	11.02	178	235197	18.234	ng	98
72) Carbazole	11.18	167	101426	7.995	ng	98
74) Fluoranthene	12.15	202	583223	47.271	ng	98
77) Pylene	12.38	202	541616	47.126	ng	99
80) Benzo(a)anthracene	13.56	228	196243	21.604	ng	100
82) Chrysene	13.59	228	170288	19.199	ng	97
85) Indeno(1,2,3-cd)pyrene	16.12	276	57411	7.549	ng	98
87) Benzo(b)fluoranthene	14.56	252	148900m	25.759	ng	
88) Benzo(k)fluoranthene	14.58	252	58863m	10.686	ng	
89) Benzo(a)pyrene	14.86	252	113633	21.479	ng	# 94
90) Dibenzo(a,h)anthracene	16.13	278	13901	3.204	ng	# 72
91) Benzo(a,h,i)perylene	16.48	276	55910	12.289	ng	95

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

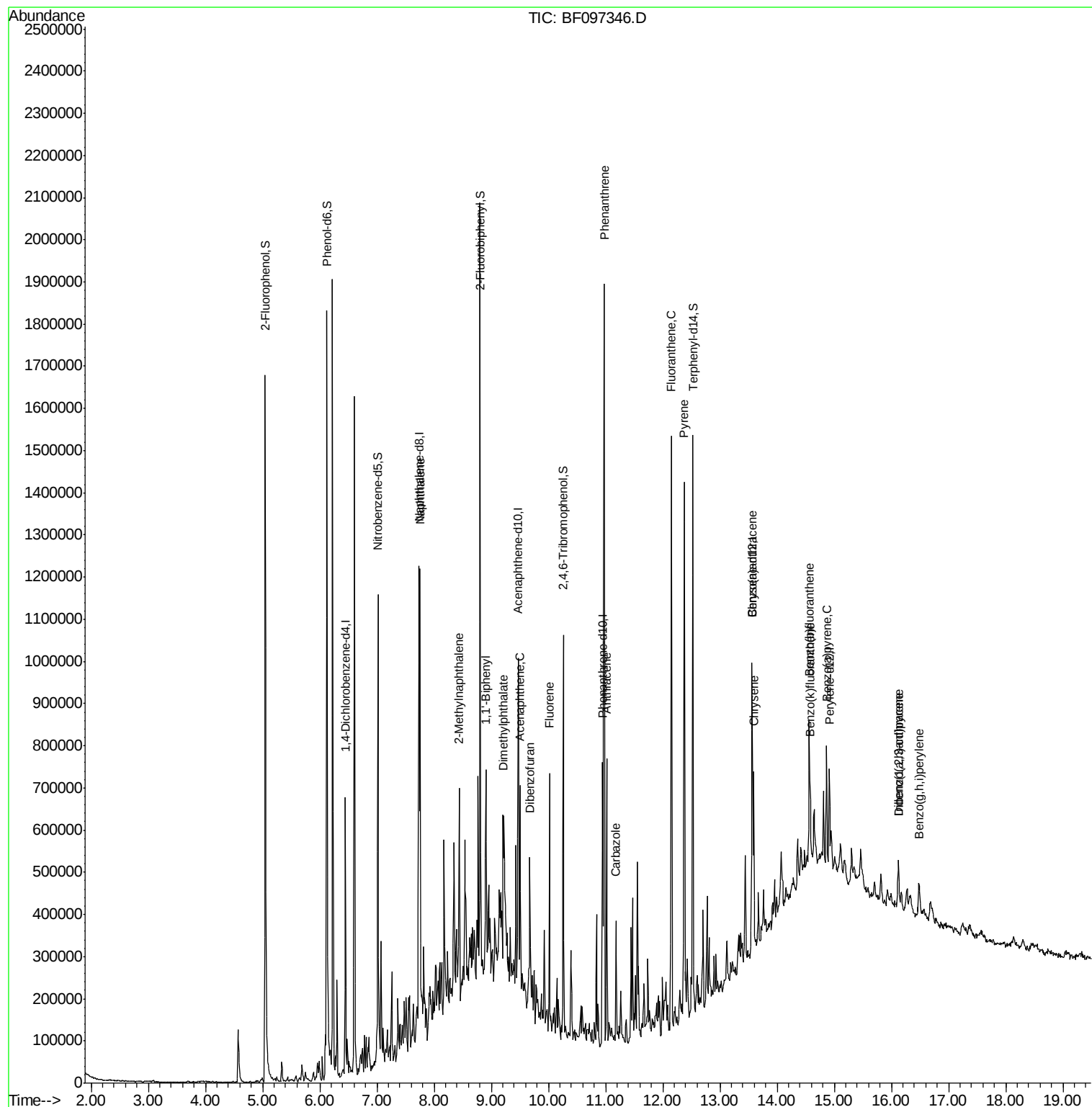
Data Path : Z:\HPCHEM1\BNA F\DATA\BF080317\
Data File : BF097346.D
Acq On : 4 Aug 2017 5:00
Operator : SJ/JU
Sample : I4562-07
Misc :
ALS Vial : 26 Sample Multiplier: 1

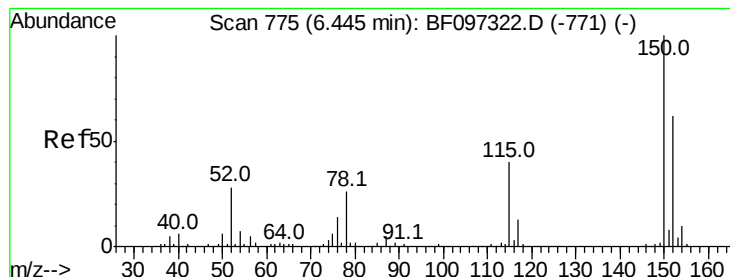
Instrument :
BNA_F
ClientSampleId :
JC-02-080117-C

Manual Integrations
APPROVED

Sohil
8/4/2017 5:31:10 PM

Quant Time: Aug 04 05:56:15 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





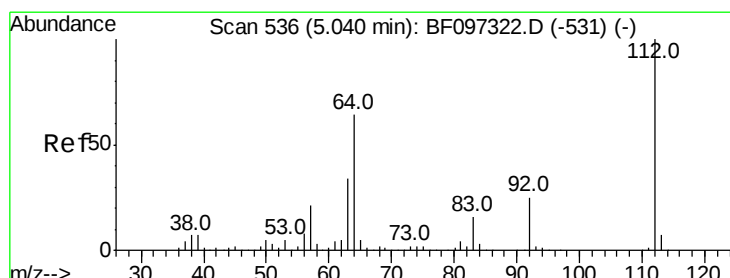
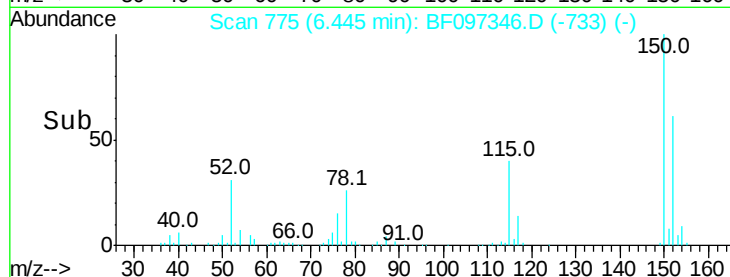
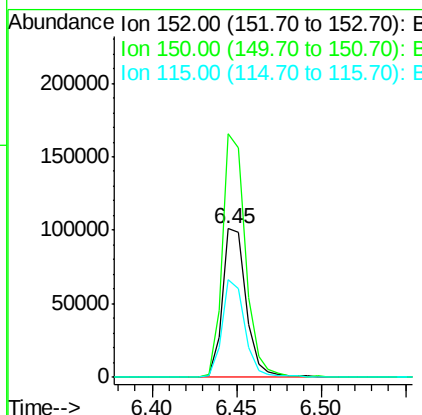
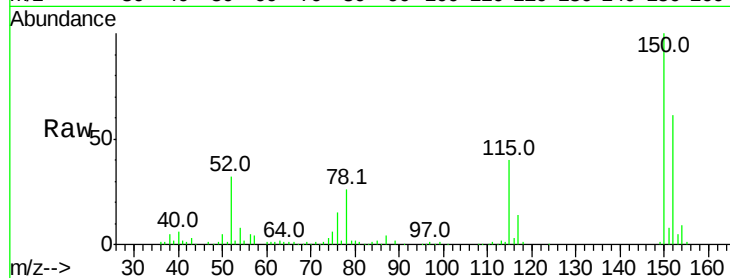
#1
 1,4-Dichlorobenzene-d4
 Concen: 20.000 ng
 RT: 6.45 min Scan# 775
 Delta R.T. -0.05 min
 Lab File: BF097346.D
 Acq: 4 Aug 2017 5:00

Instrument :
 BNA_F
 ClientSampleId :
 JC-02-080117-C

Tot Ion	Ratio	Lower	Upper
152	100		
150	163.7	126.2	189.2
115	66.1	52.2	78.2

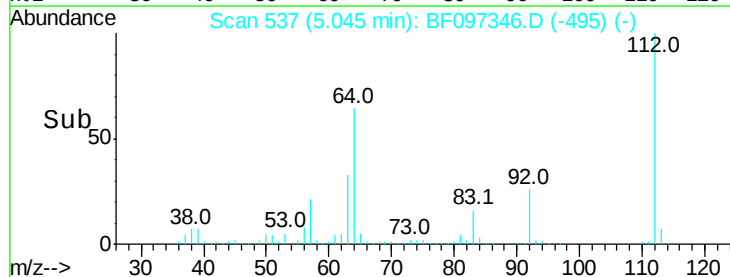
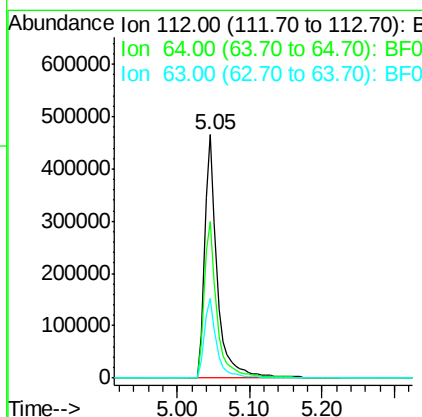
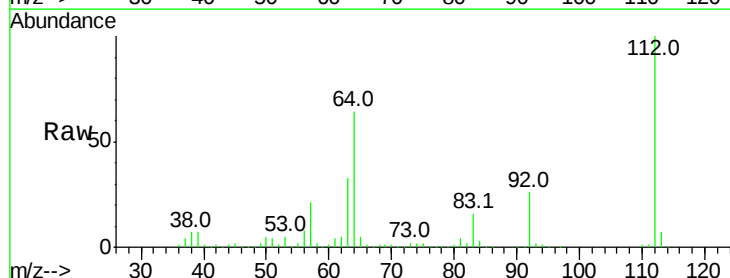
Manual Integrations
 APPROVED

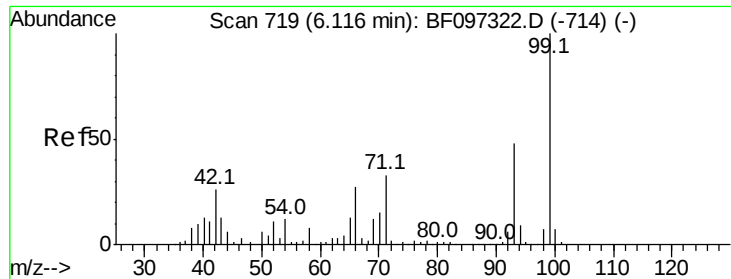
Sohil
 8/4/2017 5:31:10 PM



#5
 2-Fluorophenol
 Concen: 85.652 ng
 RT: 5.05 min Scan# 537
 Delta R.T. -0.05 min
 Lab File: BF097346.D
 Acq: 4 Aug 2017 5:00

Tgt Ion	Ratio	Lower	Upper
112	100		
64	64.1	46.0	69.0
63	32.7	23.4	35.0





#7

Phenol-d6

Concen: 92.346 ng

RT: 6.12 min Scan# 720

Delta R.T. -0.05 min

Lab File: BF097346.D

Acq: 4 Aug 2017 5:00

Instrument :

BNA_F

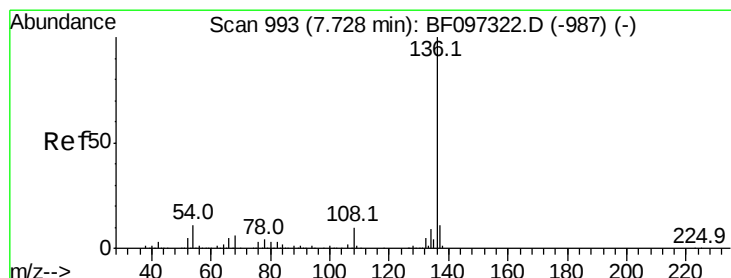
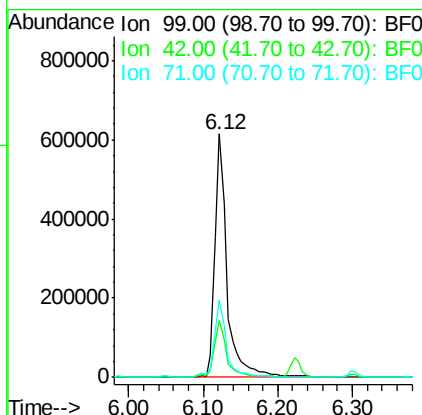
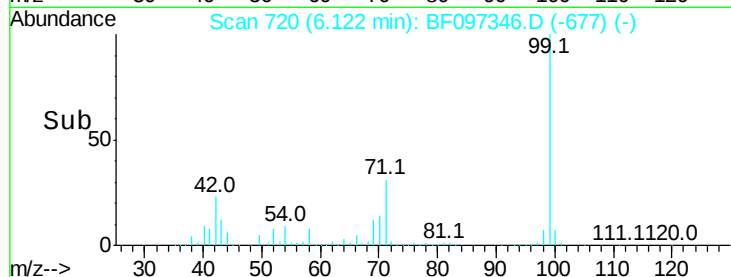
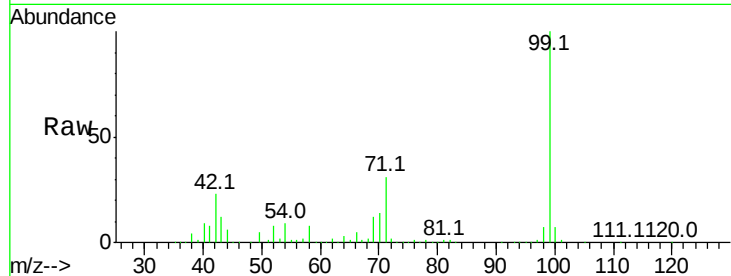
ClientSampleId :

JC-02-080117-C

Tot Ion:	99	Resp:	695339
Ion Ratio	Lower	Upper	
99	100		
42	23.5	13.5	20.3#
71	31.5	24.5	36.7

Manual Integrations
APPROVED

Sohil
8/4/2017 5:31:10 PM



#21

Naphthalene-d8

Concen: 20.000 ng

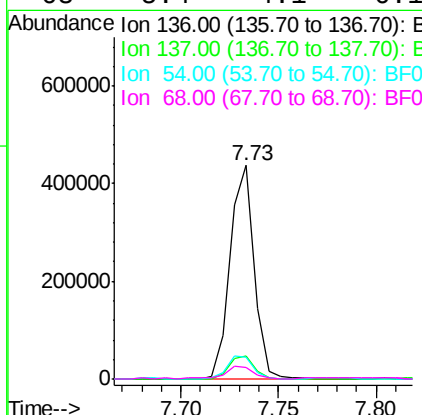
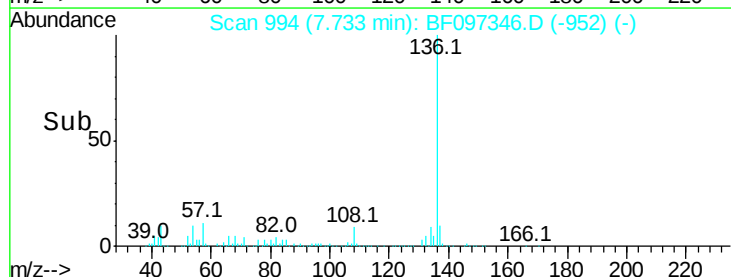
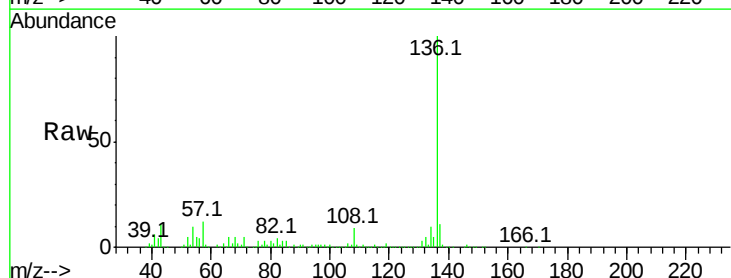
RT: 7.73 min Scan# 994

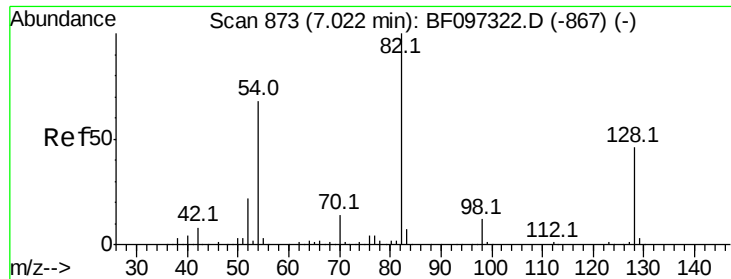
Delta R.T. -0.05 min

Lab File: BF097346.D

Acq: 4 Aug 2017 5:00

Tgt Ion:	136	Resp:	374183
Ion Ratio	Lower	Upper	
136	100		
137	10.6	8.5	12.7
54	10.2	4.9	7.3#
68	5.4	4.1	6.1





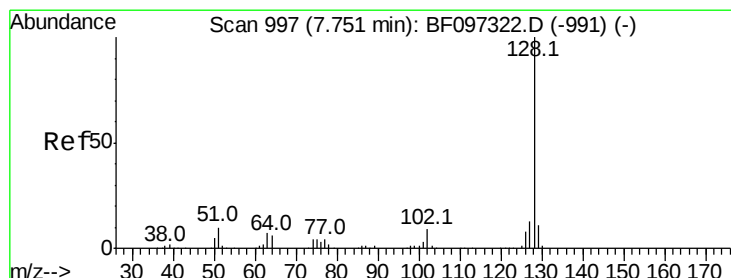
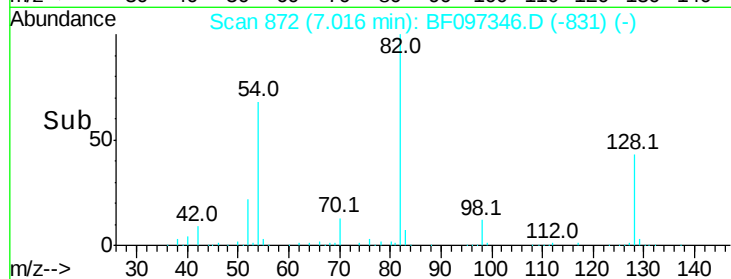
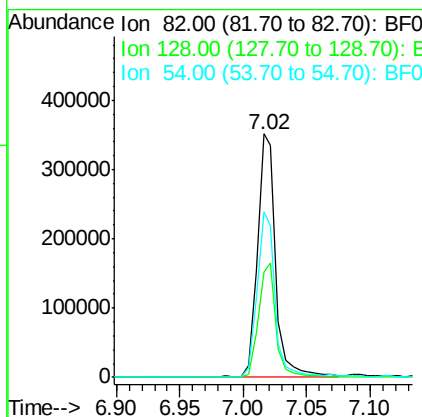
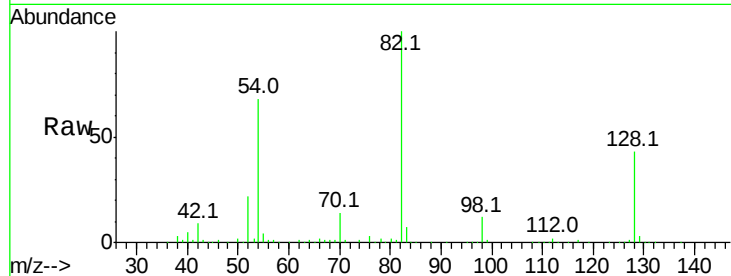
#23
Nitrobenzene-d5
Concen: 55.856 ng
RT: 7.02 min Scan# 872
Delta R.T. -0.06 min
Lab File: BF097346.D
Acq: 4 Aug 2017 5:00

Instrument :
BNA_F
ClientSampleId :
JC-02-080117-C

Tot Ion	Ratio	Resp Lower	Upper
82	100		
128	43.4	34.0	51.0
54	68.2	42.2	63.2

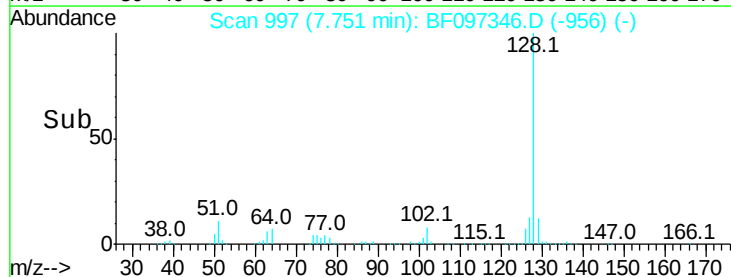
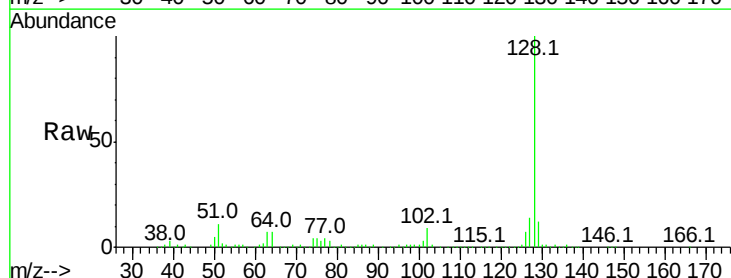
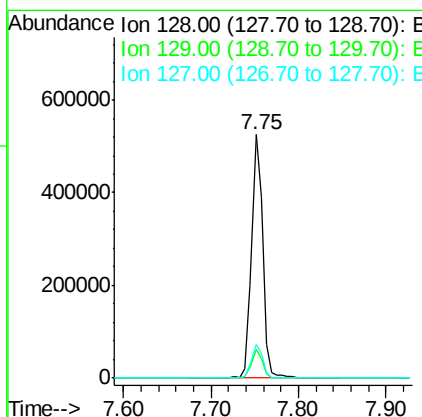
Manual Integrations
APPROVED

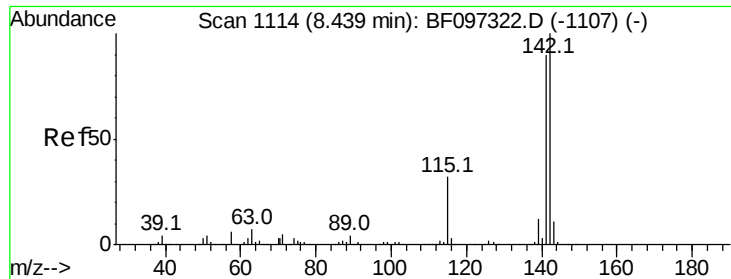
Sohil
8/4/2017 5:31:10 PM



#31
Naphthalene
Concen: 25.127 ng
RT: 7.75 min Scan# 997
Delta R.T. -0.06 min
Lab File: BF097346.D
Acq: 4 Aug 2017 5:00

Tgt Ion	Ratio	Resp Lower	Upper
128	100		
129	11.6	9.0	13.6
127	13.7	10.8	16.2





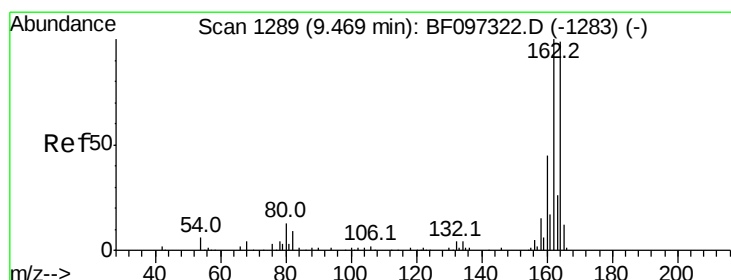
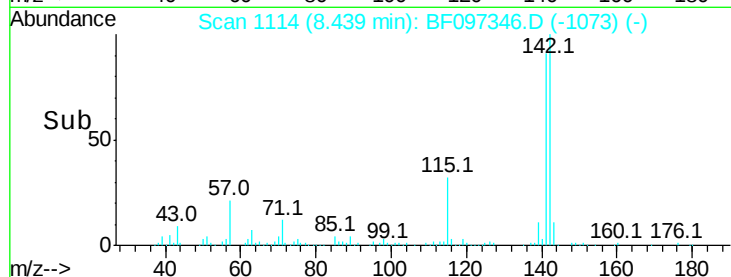
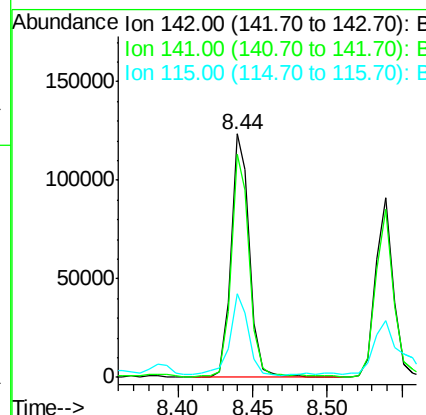
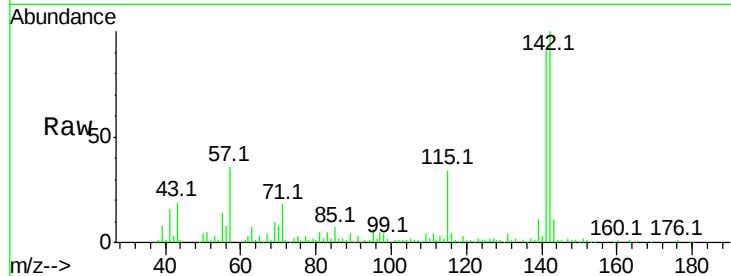
#37
2-Methylnaphthalene
Concen: 9.742 ng
RT: 8.44 min Scan# 1114
Delta R.T. -0.06 min
Lab File: BF097346.D
Acq: 4 Aug 2017 5:00

Instrument :
BNA_F
ClientSampleId :
JC-02-080117-C

Tot Ion	Ratio	Resp	Lower	Upper
142	100	108798		
141	91.5	71.3	106.9	
115	34.1	27.1	40.7	

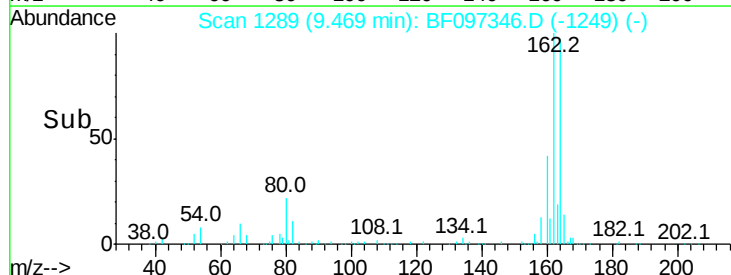
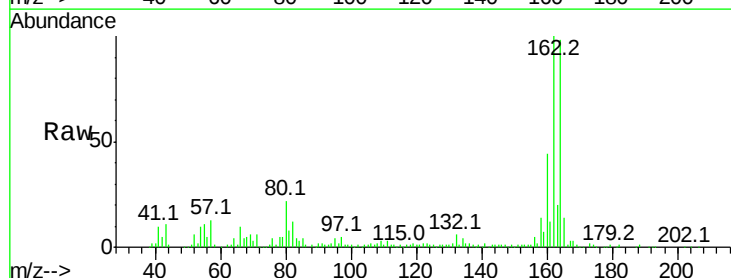
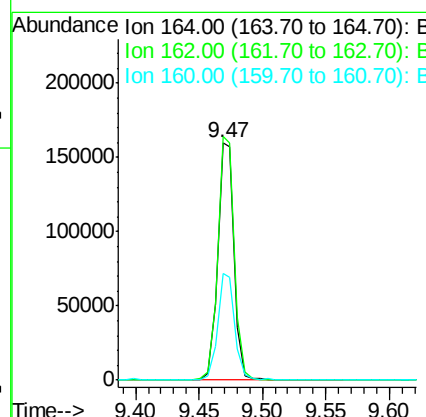
Manual Integrations
APPROVED

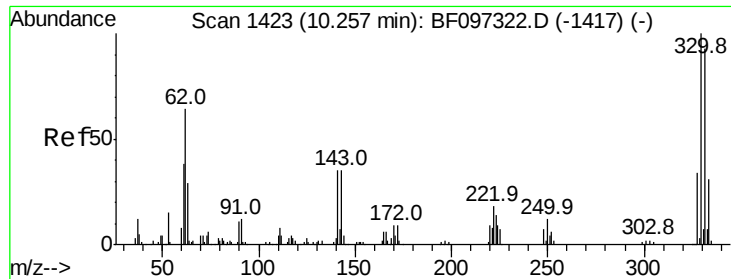
Sohil
8/4/2017 5:31:10 PM



#38
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.47 min Scan# 1289
Delta R.T. -0.06 min
Lab File: BF097346.D
Acq: 4 Aug 2017 5:00

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	148048		
162	102.5	82.6	123.8	
160	44.7	36.2	54.2	





#41

2,4,6-Tribromophenol

Concen: 79.666 ng

RT: 10.26 min Scan# 1424

Delta R.T. -0.06 min

Lab File: BF097346.D

Acq: 4 Aug 2017 5:00

Instrument :

BNA_F

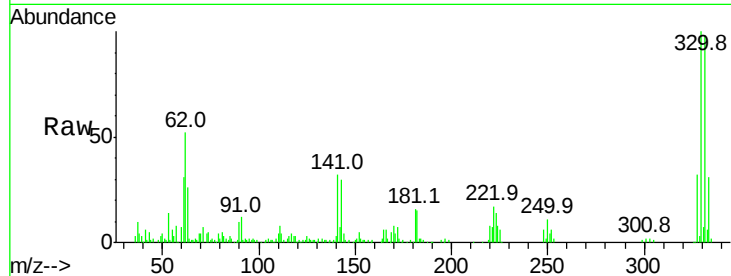
ClientSampleId :

JC-02-080117-C

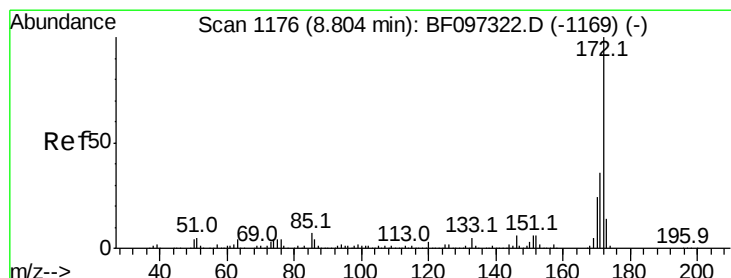
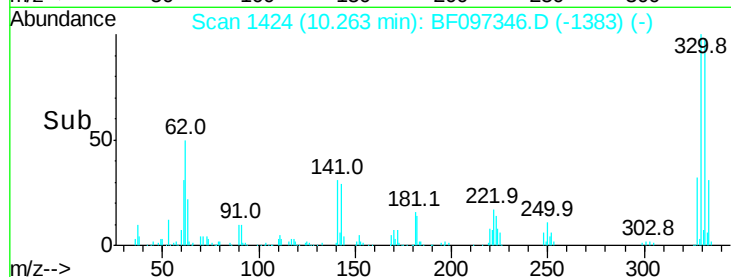
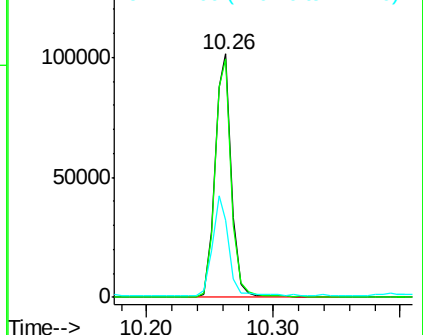
Tot Ion:	330	Resp:	93187
Ion Ratio	Lower	Upper	
330	100		
332	97.2	76.6	115.0
141	41.2	31.4	47.2

Manual Integrations
APPROVED

Sohil
8/4/2017 5:31:10 PM



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: 69.300 ng

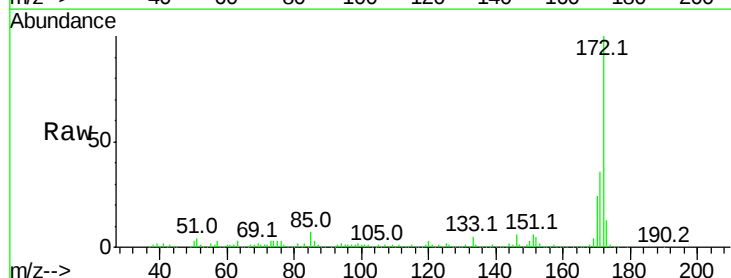
RT: 8.81 min Scan# 1177

Delta R.T. -0.06 min

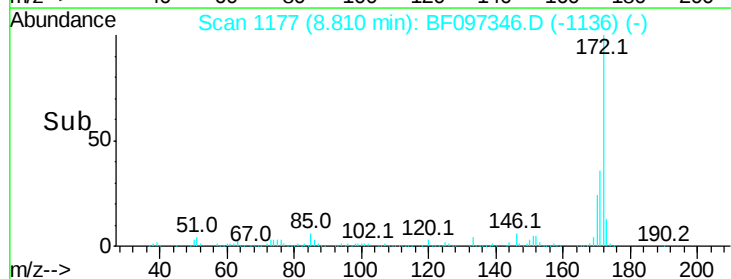
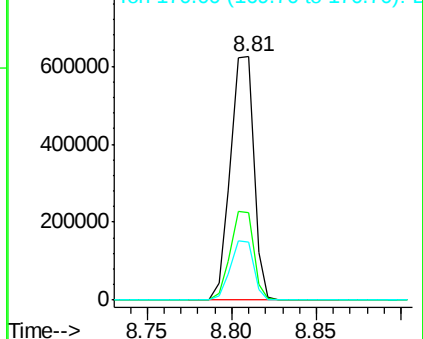
Lab File: BF097346.D

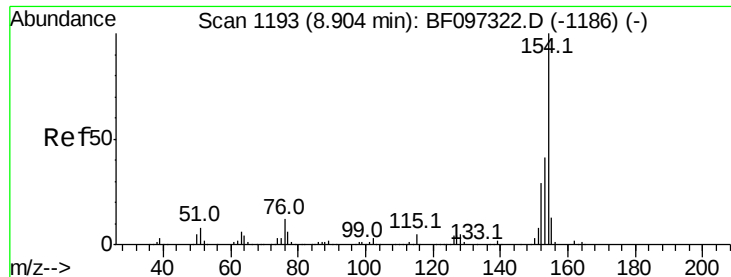
Acq: 4 Aug 2017 5:00

Tgt Ion:	172	Resp:	604546
Ion Ratio	Lower	Upper	
172	100		
171	35.7	29.6	44.4
170	24.1	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





#45

1,1'-Biphenyl

Concen: 2.190 ng

RT: 8.90 min Scan# 1193

Delta R.T. -0.06 min

Lab File: BF097346.D

Acq: 4 Aug 2017 5:00

Instrument :

BNA_F

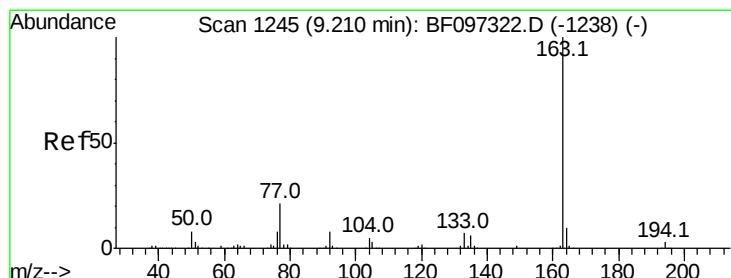
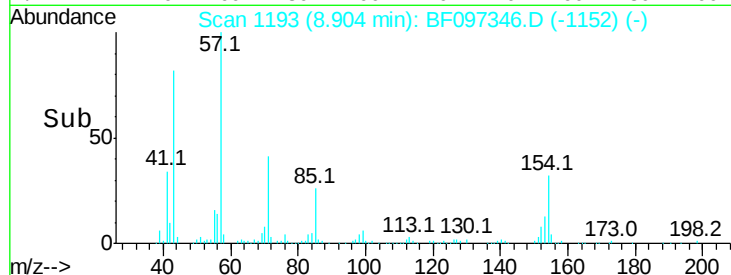
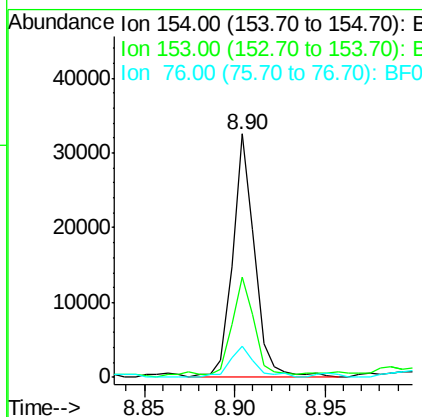
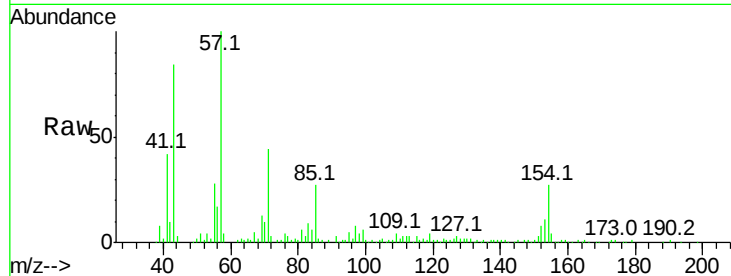
ClientSampleId :

JC-02-080117-C

Tot Ion:	154	Resp:	27689
Ion Ratio	Lower	Upper	
154	100		
153	41.2	21.2	61.2
76	12.9	0.0	29.9

Manual Integrations
APPROVED

Sohil
8/4/2017 5:31:10 PM



#49

Dimethylphthalate

Concen: 8.334 ng

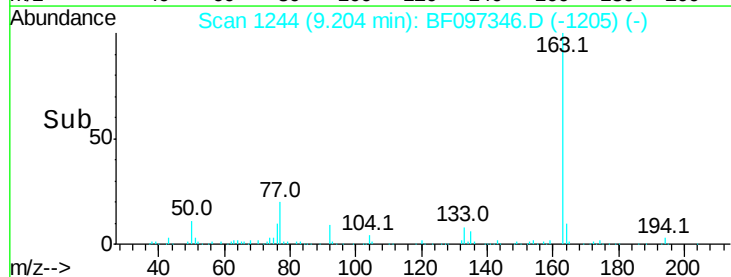
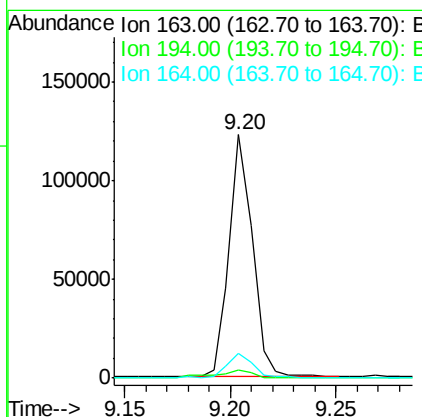
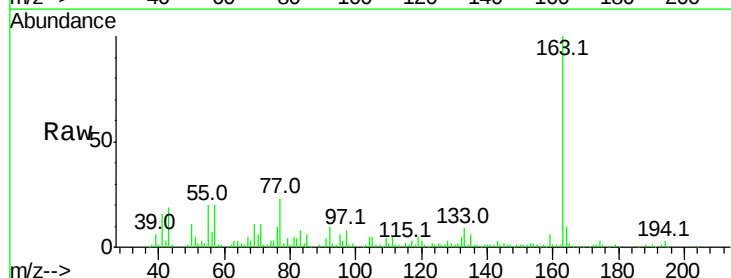
RT: 9.20 min Scan# 1244

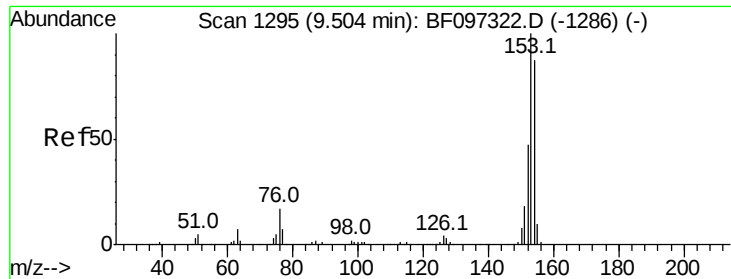
Delta R.T. -0.07 min

Lab File: BF097346.D

Acq: 4 Aug 2017 5:00

Tgt Ion:	163	Resp:	93692
Ion Ratio	Lower	Upper	
163	100		
194	3.3	2.6	4.0
164	10.0	8.4	12.6





#51

Acenaphthene

Concen: 11.172 ng

RT: 9.50 min Scan# 1295

Delta R.T. -0.06 min

Lab File: BF097346.D

Acq: 4 Aug 2017 5:00

Instrument :

BNA_F

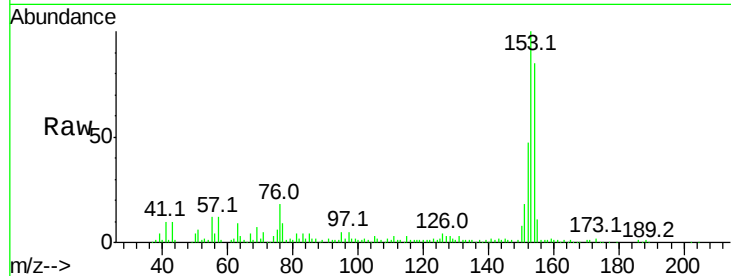
ClientSampleId :

JC-02-080117-C

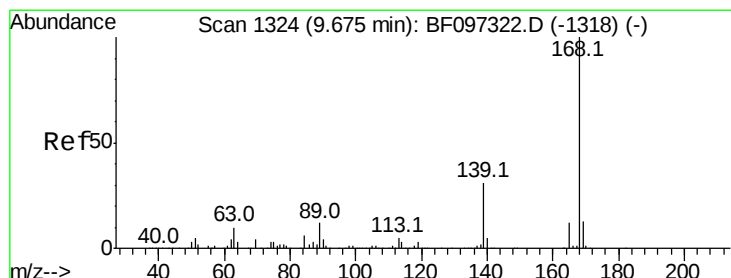
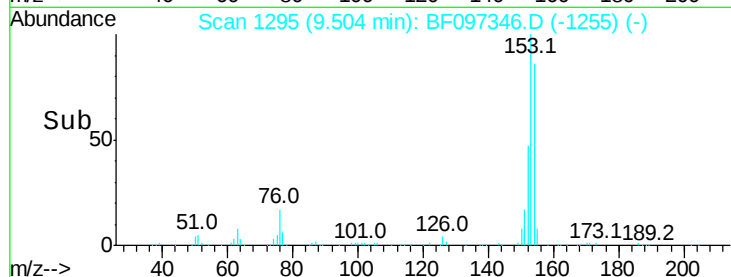
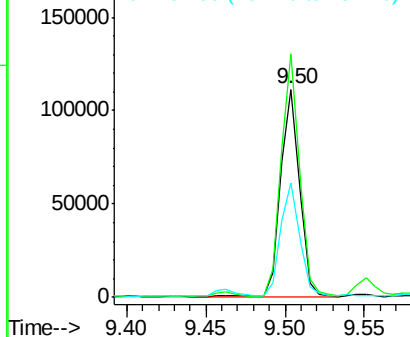
Tot Ion:	154	Resp:	93993
Ion Ratio	Lower	Upper	
154	100		
153	117.2	90.5	135.7
152	55.1	43.6	65.4

Manual Integrations
APPROVED

Sohil
8/4/2017 5:31:10 PM



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: 10.256 ng

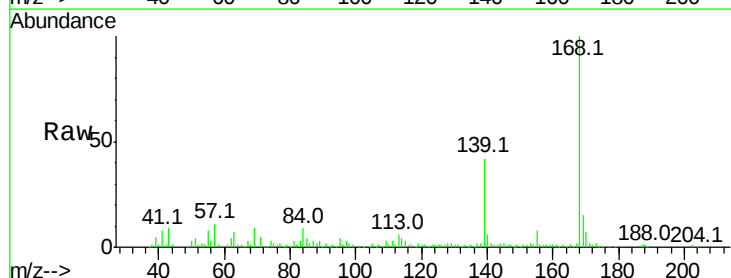
RT: 9.67 min Scan# 1324

Delta R.T. -0.06 min

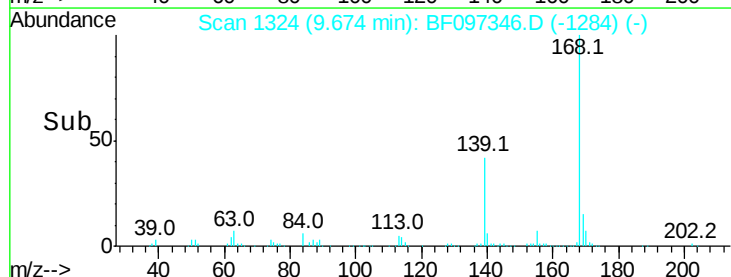
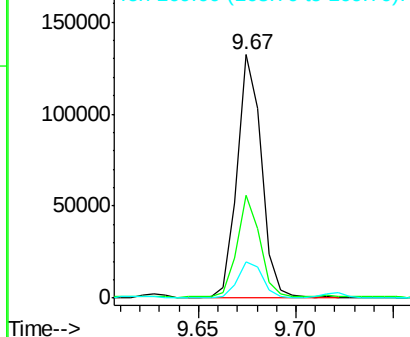
Lab File: BF097346.D

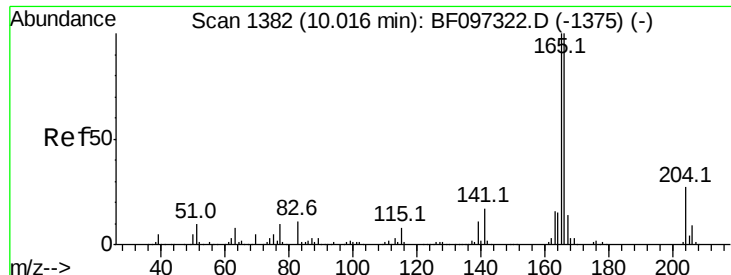
Acq: 4 Aug 2017 5:00

Tgt Ion:	168	Resp:	114935
Ion Ratio	Lower	Upper	
168	100		
139	42.3	30.6	45.8
169	15.0	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





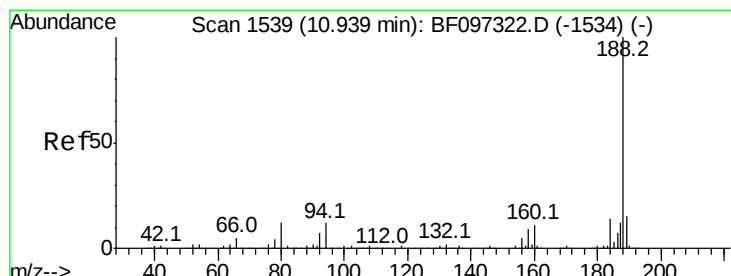
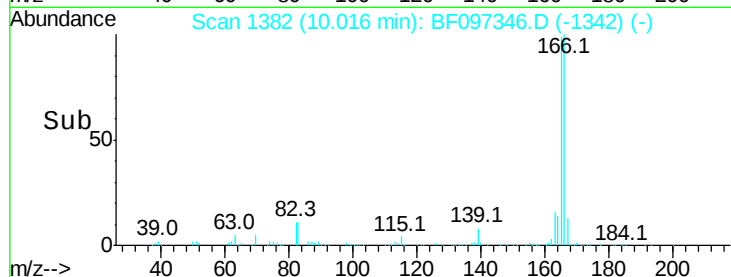
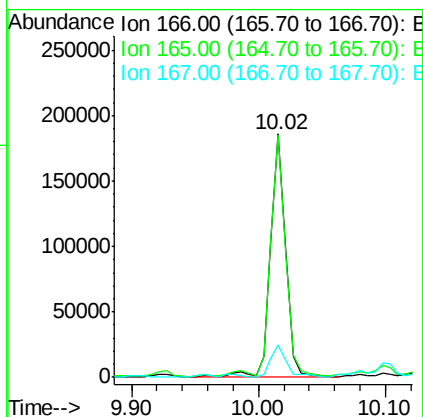
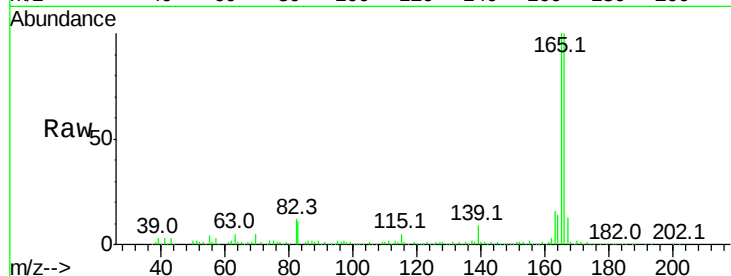
#57
Fluorene
 Concen: 18.120 ng
 RT: 10.02 min Scan# 1382
 Delta R.T. -0.06 min
 Lab File: BF097346.D
 Acq: 4 Aug 2017 5:00

Instrument :
 BNA_F
 ClientSampleId :
 JC-02-080117-C

Tot Ion	Ratio	Resp	Lower	Upper
166	100	152621		
165	99.6	78.8	118.2	
167	13.3	10.6	16.0	

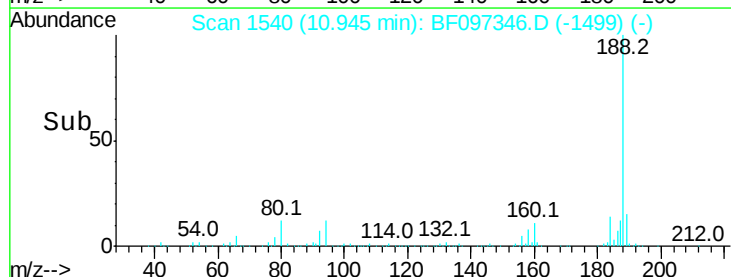
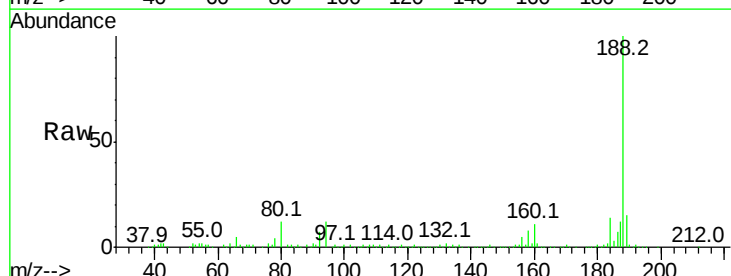
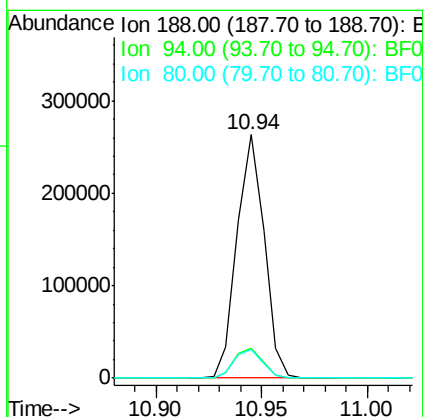
Manual Integrations
 APPROVED

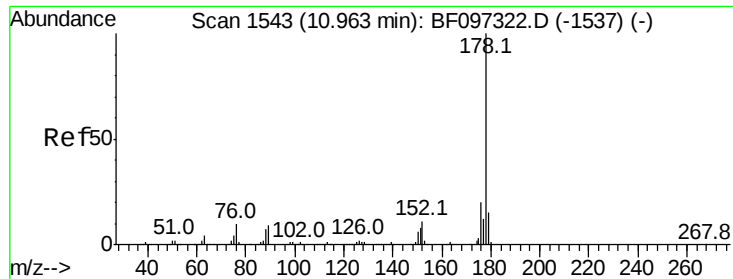
Sohil
 8/4/2017 5:31:10 PM



#63
Phenanthrene-d10
 Concen: 20.000 ng
 RT: 10.94 min Scan# 1540
 Delta R.T. -0.06 min
 Lab File: BF097346.D
 Acq: 4 Aug 2017 5:00

Tgt Ion	Ratio	Resp	Lower	Upper
188	100	235050		
94	12.0	9.4	14.2	
80	11.9	10.2	15.2	





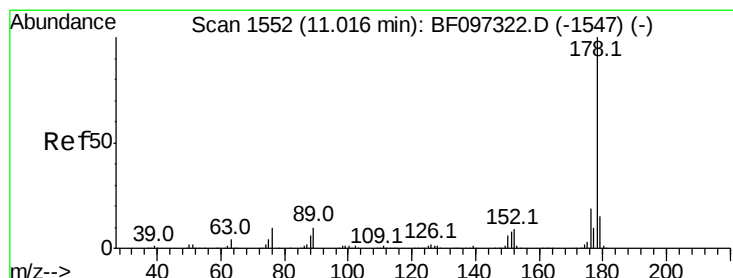
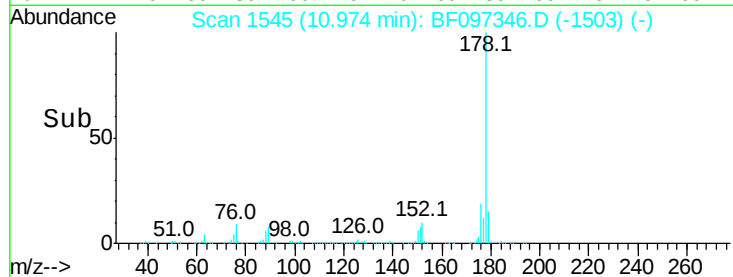
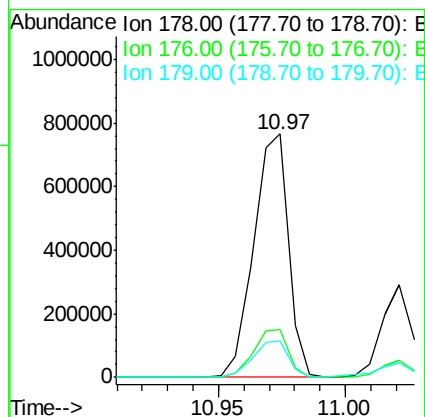
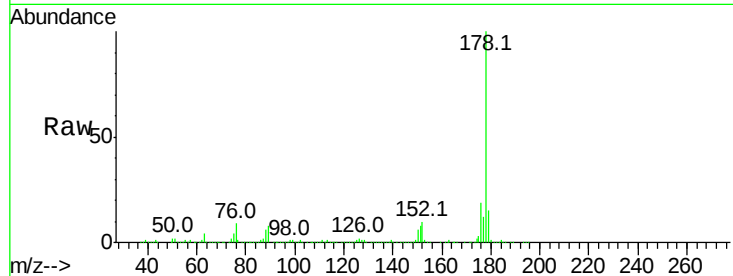
#70
Phenanthrene
Concen: 58.399 ng
RT: 10.97 min Scan# 1545
Delta R.T. -0.05 min
Lab File: BF097346.D
Acq: 4 Aug 2017 5:00

Instrument :
BNA_F
ClientSampleId :
JC-02-080117-C

Tot Ion	Ratio	Lower	Upper
178	100		
176	19.4	16.2	24.4
179	14.8	12.6	19.0

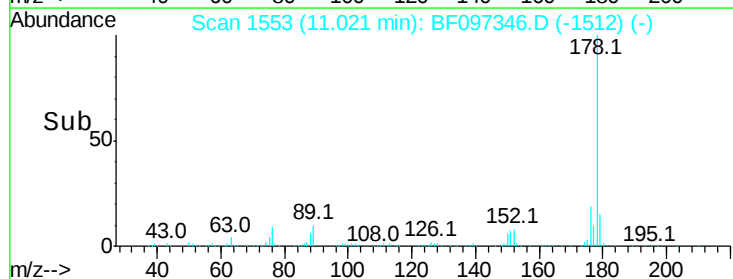
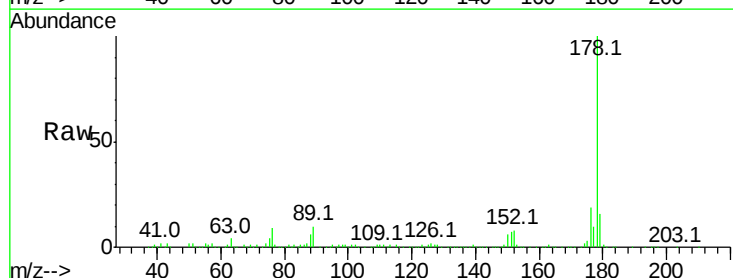
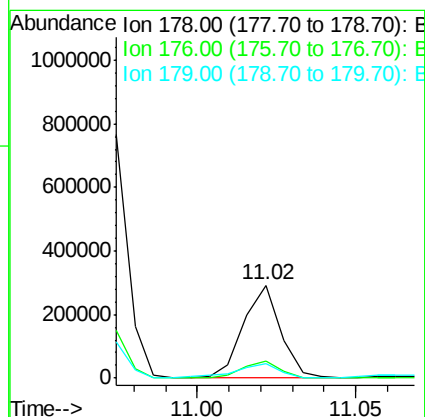
Manual Integrations
APPROVED

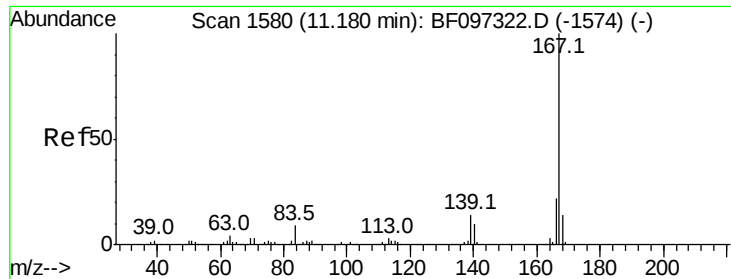
Sohil
8/4/2017 5:31:10 PM



#71
Anthracene
Concen: 18.234 ng
RT: 11.02 min Scan# 1553
Delta R.T. -0.06 min
Lab File: BF097346.D
Acq: 4 Aug 2017 5:00

Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.6	15.8	23.8
179	15.6	12.7	19.1





#72

Carbazole

Concen: 7.995 ng

RT: 11.18 min Scan# 1580

Delta R.T. -0.06 min

Lab File: BF097346.D

Acq: 4 Aug 2017 5:00

Instrument :

BNA_F

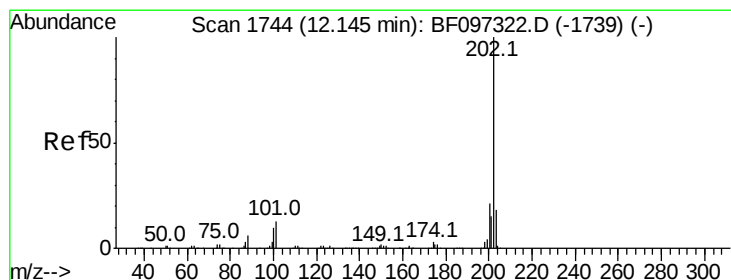
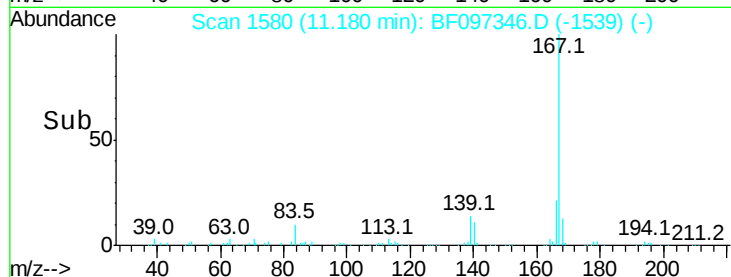
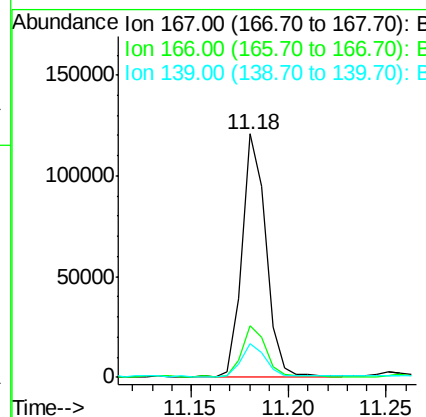
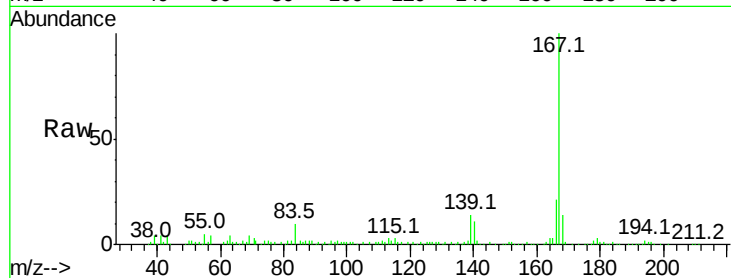
ClientSampleId :

JC-02-080117-C

Tot Ion:	167	Resp:	101426
Ion Ratio	Lower	Upper	
167	100		
166	21.0	18.1	27.1
139	14.1	11.7	17.5

Manual Integrations
APPROVED

Sohil
8/4/2017 5:31:10 PM



#74

Fluoranthene

Concen: 47.271 ng

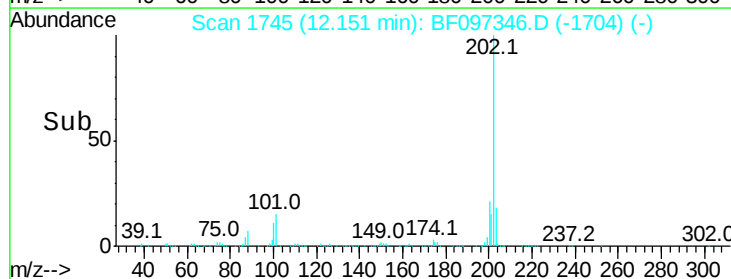
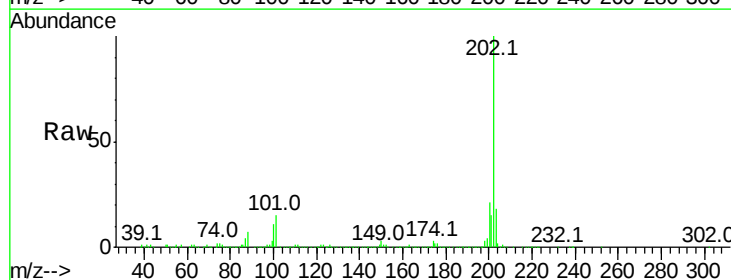
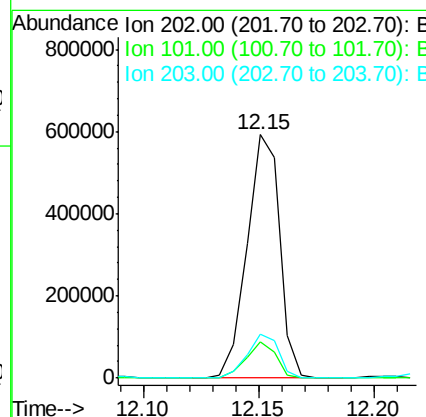
RT: 12.15 min Scan# 1745

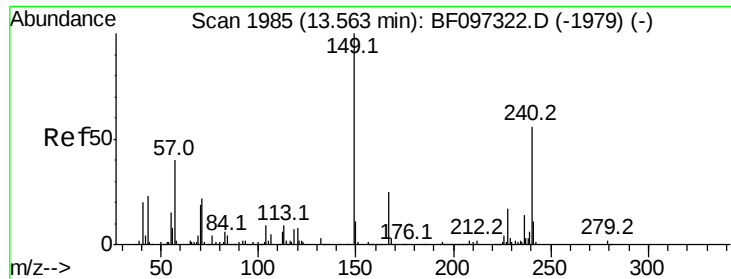
Delta R.T. -0.06 min

Lab File: BF097346.D

Acq: 4 Aug 2017 5:00

Tgt Ion:	202	Resp:	583223
Ion Ratio	Lower	Upper	
202	100		
101	14.7	0.0	33.2
203	17.8	0.0	38.1





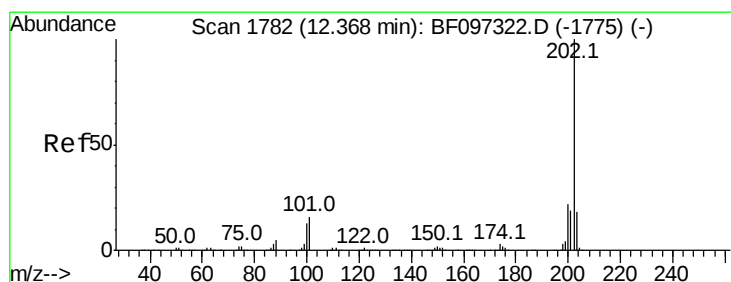
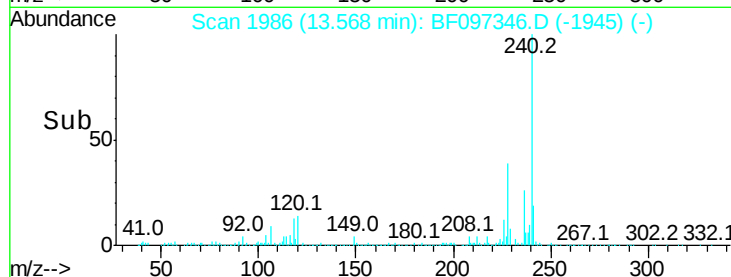
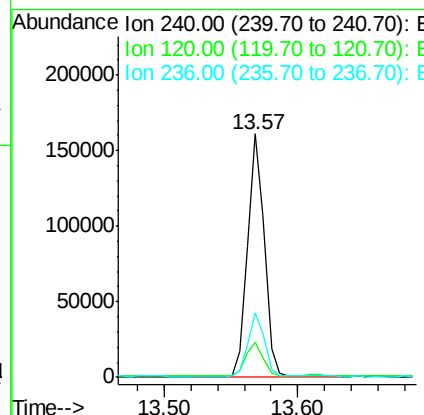
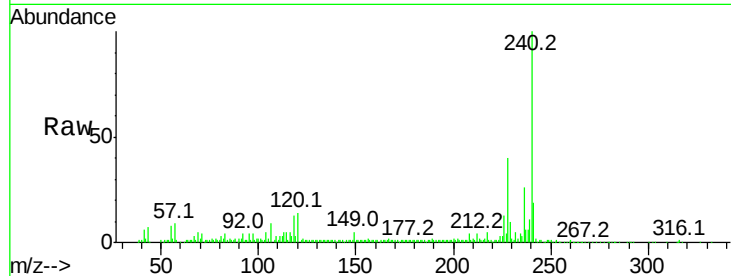
#75
Chrysene-d12
Concen: 20.000 ng
RT: 13.57 min Scan# 1986
Delta R.T. -0.06 min
Lab File: BF097346.D
Acq: 4 Aug 2017 5:00

Instrument :
BNA_F
ClientSampleId :
JC-02-080117-C

Tot Ion	Ratio	Lower	Upper
240	100		
120	14.1	5.8	8.8#
236	26.5	20.5	30.7

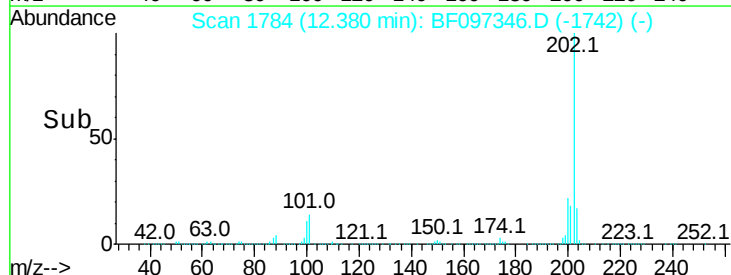
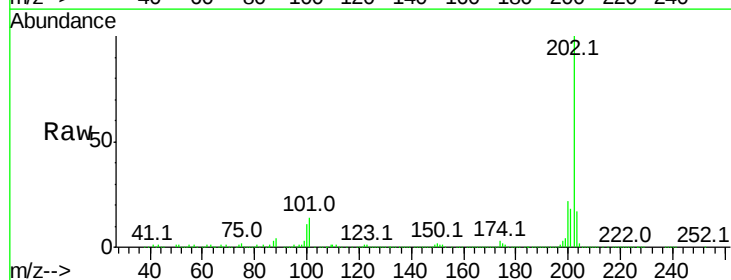
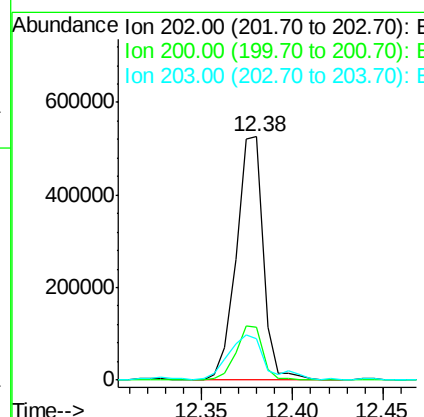
Manual Integrations
APPROVED

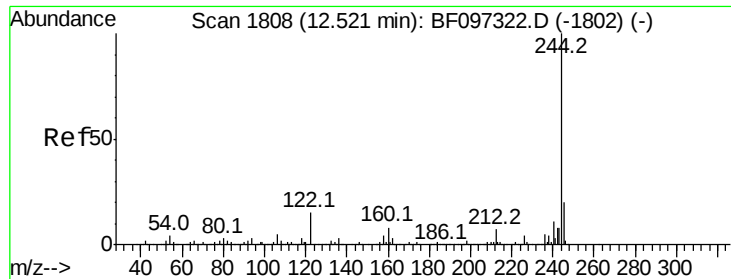
Sohil
8/4/2017 5:31:10 PM



#77
Pyrene
Concen: 47.126 ng
RT: 12.38 min Scan# 1784
Delta R.T. -0.05 min
Lab File: BF097346.D
Acq: 4 Aug 2017 5:00

Tgt Ion	Ratio	Lower	Upper
202	100		
200	21.6	17.6	26.4
203	17.2	14.4	21.6





#78

Terphenyl-d14

Concen: 58.453 ng

RT: 12.53 min Scan# 1809

Delta R.T. -0.06 min

Lab File: BF097346.D

Acq: 4 Aug 2017 5:00

Instrument :

BNA_F

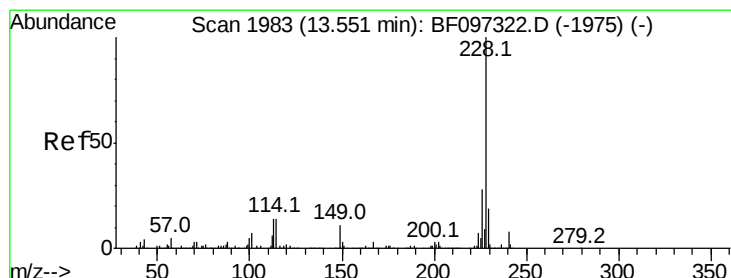
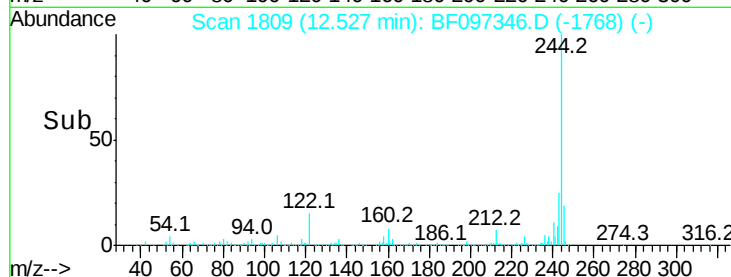
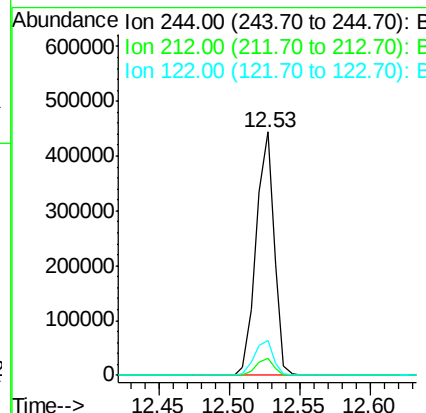
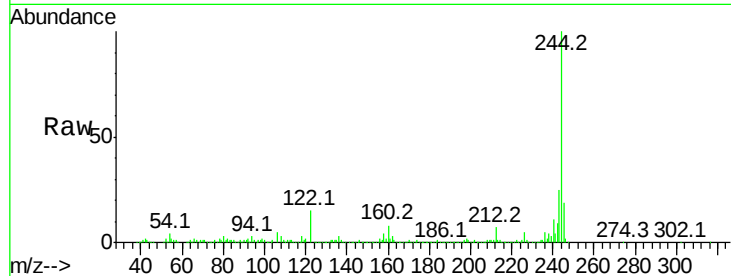
ClientSampleId :

JC-02-080117-C

Tot Ion:	244	Resp:	402477
Ion Ratio		Lower	Upper
244	100		
212	6.8	6.0	9.0
122	14.6	10.3	15.5

Manual Integrations
APPROVED

Sohil
8/4/2017 5:31:10 PM



#80

Benzo(a)anthracene

Concen: 21.604 ng

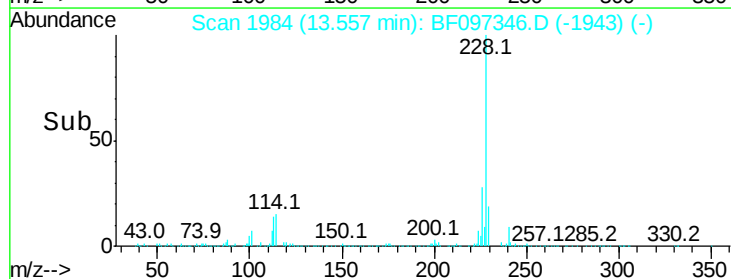
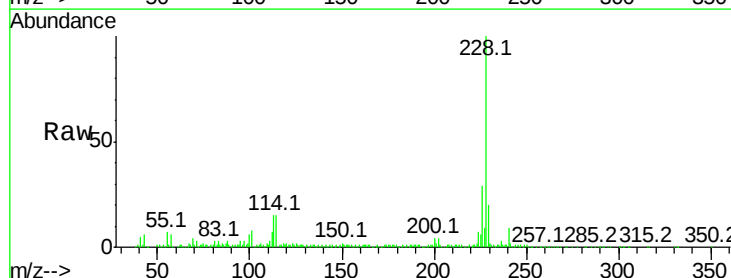
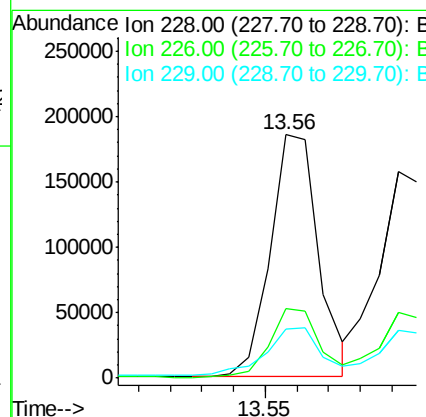
RT: 13.56 min Scan# 1984

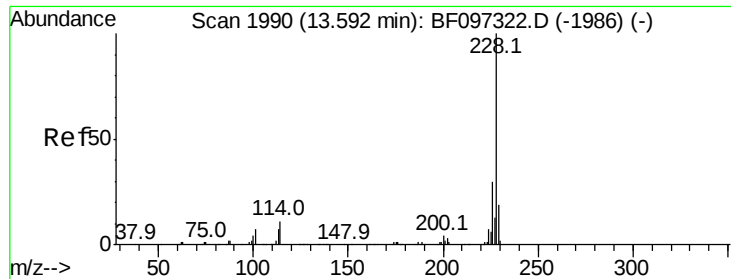
Delta R.T. -0.06 min

Lab File: BF097346.D

Acq: 4 Aug 2017 5:00

Tgt Ion:	228	Resp:	196243
Ion Ratio		Lower	Upper
228	100		
226	28.6	22.6	33.8
229	20.4	16.3	24.5





#82

Chrysene

Concen: 19.199 ng

RT: 13.59 min Scan# 1990

Delta R.T. -0.06 min

Lab File: BF097346.D

Acq: 4 Aug 2017 5:00

Instrument :

BNA_F

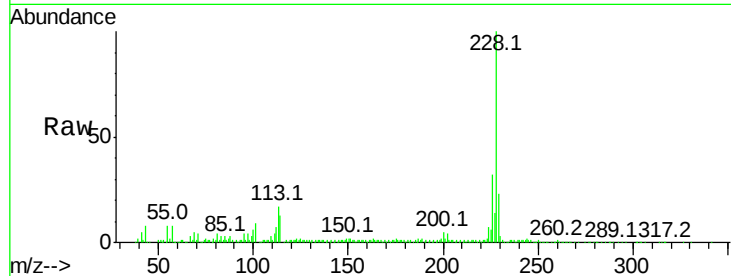
ClientSampleId :

JC-02-080117-C

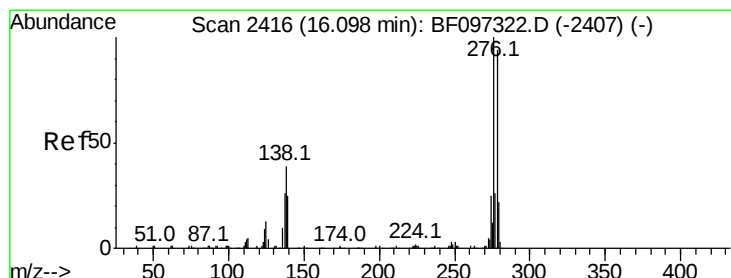
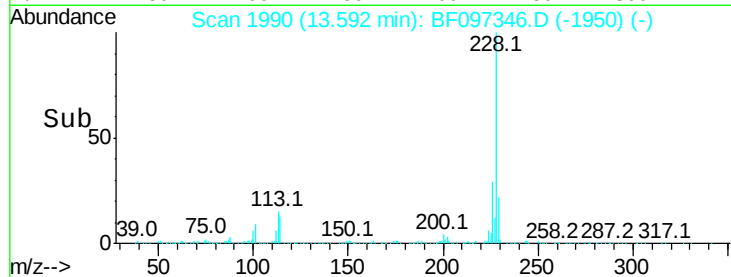
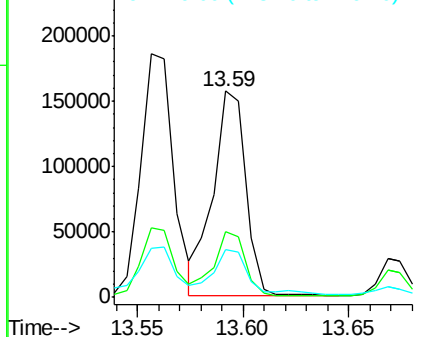
Tot Ion:	228	Resp:	170288
Ion Ratio	Lower	Upper	
228	100		
226	31.7	24.9	37.3
229	22.9	15.8	23.6

Manual Integrations
APPROVED

Sohil
8/4/2017 5:31:10 PM



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: 7.549 ng

RT: 16.12 min Scan# 2420

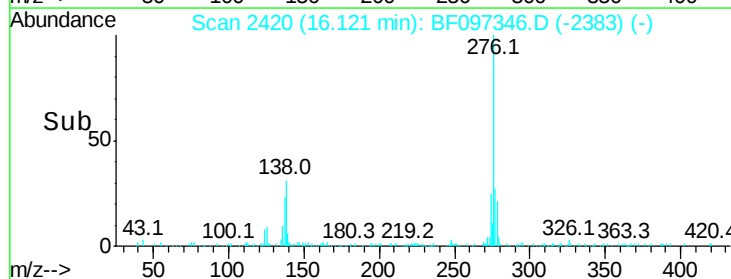
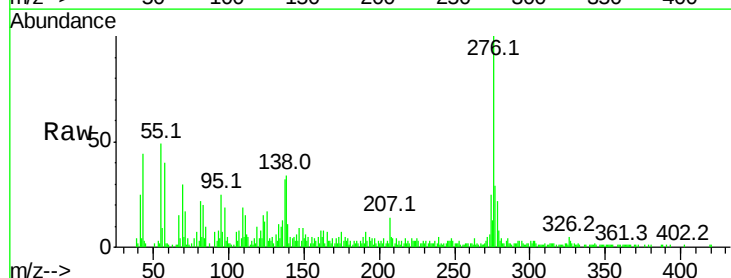
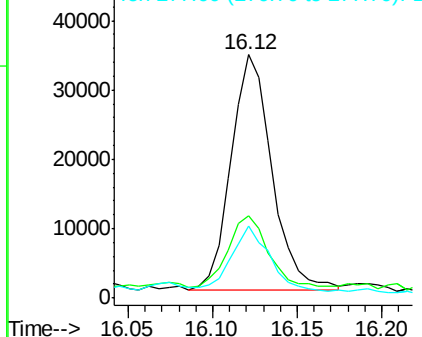
Delta R.T. -0.08 min

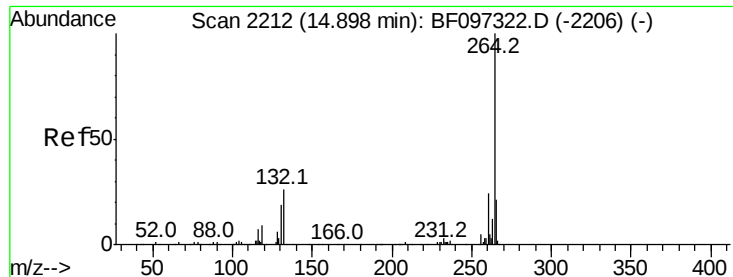
Lab File: BF097346.D

Acq: 4 Aug 2017 5:00

Tgt Ion:	276	Resp:	57411
Ion Ratio	Lower	Upper	
276	100		
138	32.7	27.8	41.6
277	25.4	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





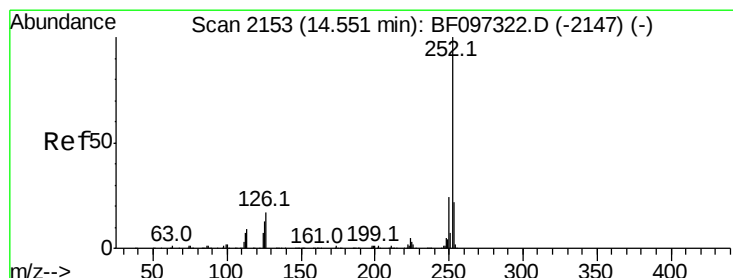
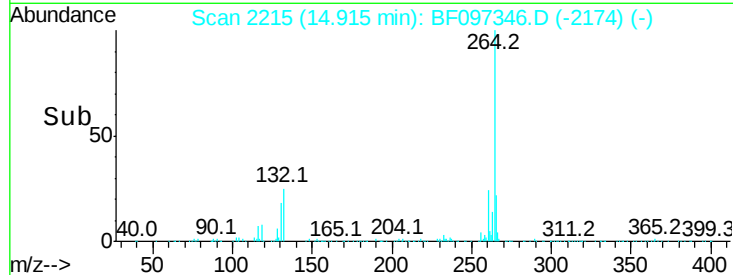
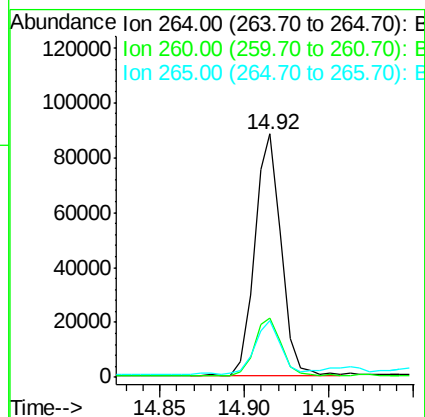
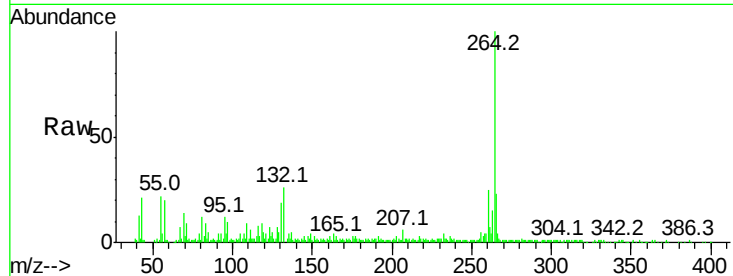
#86
Pervlene-d12
Concen: 20.000 ng
RT: 14.92 min Scan# 2215
Delta R.T. -0.06 min
Lab File: BF097346.D
Acq: 4 Aug 2017 5:00

Instrument :
BNA_F
ClientSampleId :
JC-02-080117-C

Tot Ion	Ratio	Lower	Upper
264	100		
260	24.6	19.5	29.3
265	23.3	17.2	25.8

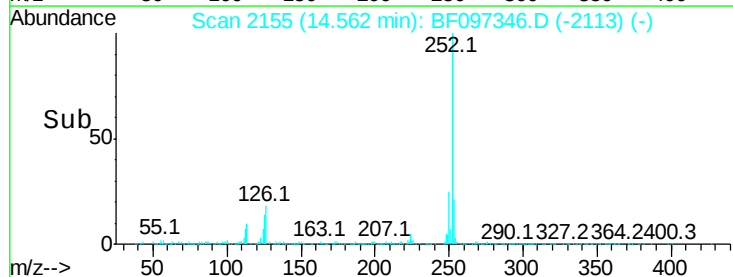
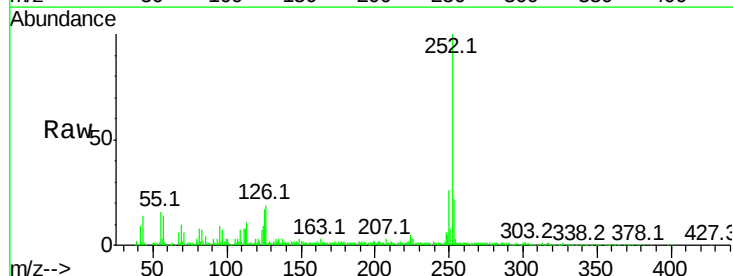
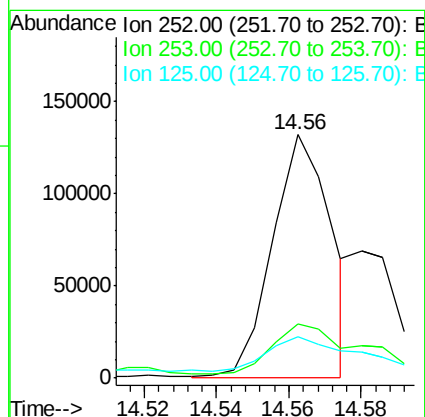
Manual Integrations
APPROVED

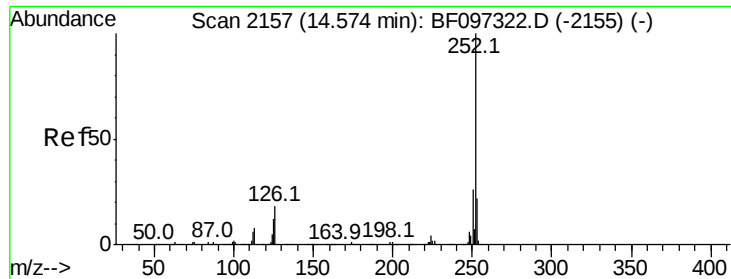
Sohil
8/4/2017 5:31:10 PM



#87
Benzo(b)fluoranthene
Concen: 25.759 ng m
RT: 14.56 min Scan# 2155
Delta R.T. -0.05 min
Lab File: BF097346.D
Acq: 4 Aug 2017 5:00

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.1	18.1	27.1
125	16.9	9.8	14.8#





#88

Benzo(k)fluoranthene

Concen: 10.686 ng m

RT: 14.58 min Scan# 2158

Delta R.T. -0.06 min

Lab File: BF097346.D

Acq: 4 Aug 2017 5:00

Instrument :

BNA_F

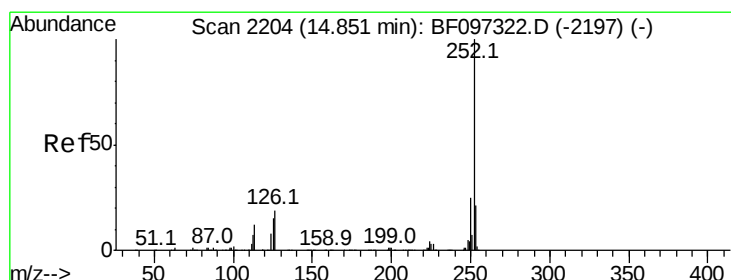
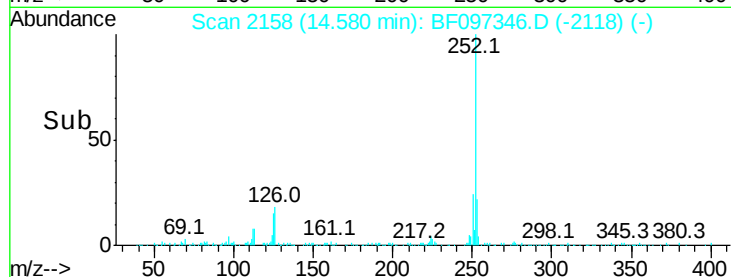
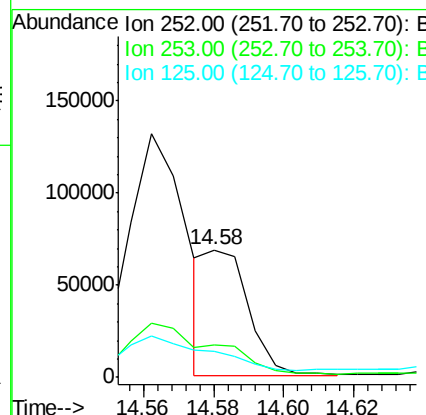
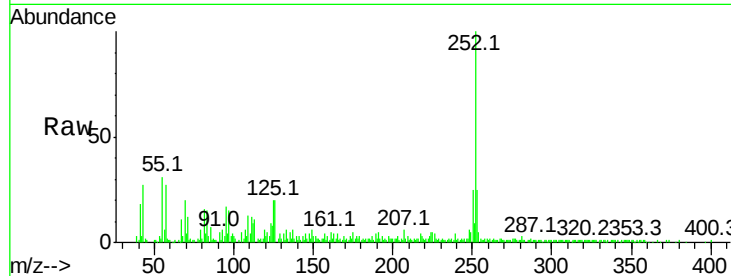
ClientSampleId :

JC-02-080117-C

Tot Ion:	252	Resp:	58863
Ion Ratio	Lower	Upper	
252	100		
253	25.0	18.4	27.6
125	20.5	13.1	19.7#

Manual Integrations
APPROVED

Sohil
8/4/2017 5:31:10 PM



#89

Benzo(a)pyrene

Concen: 21.479 ng

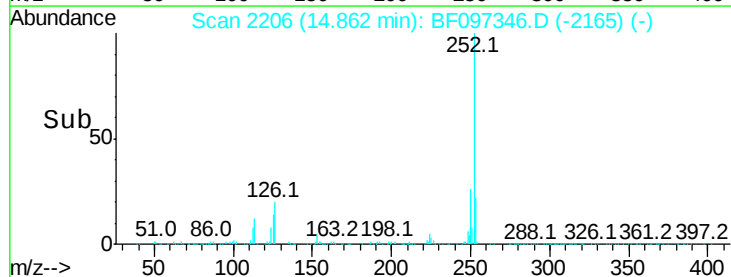
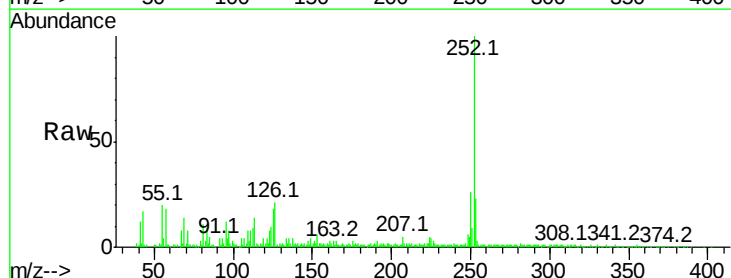
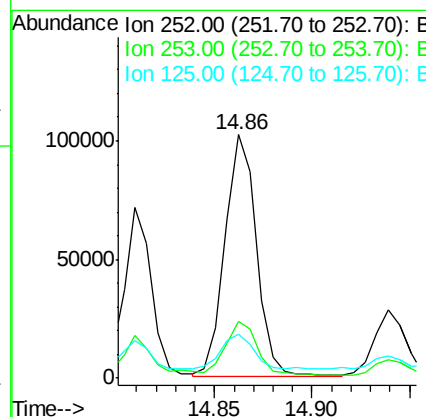
RT: 14.86 min Scan# 2206

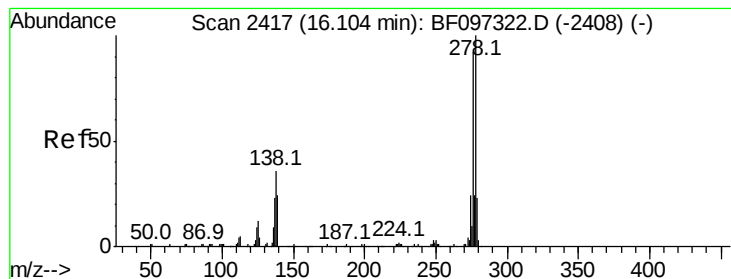
Delta R.T. -0.06 min

Lab File: BF097346.D

Acq: 4 Aug 2017 5:00

Tgt Ion:	252	Resp:	113633
Ion Ratio	Lower	Upper	
252	100		
253	23.4	17.5	26.3
125	18.2	11.0	16.4#





#90

Dibenzo(a,h)anthracene

Concen: 3.204 ng

RT: 16.13 min Scan# 2421

Delta R.T. -0.09 min

Lab File: BF097346.D

Acq: 4 Aug 2017 5:00

Instrument :

BNA_F

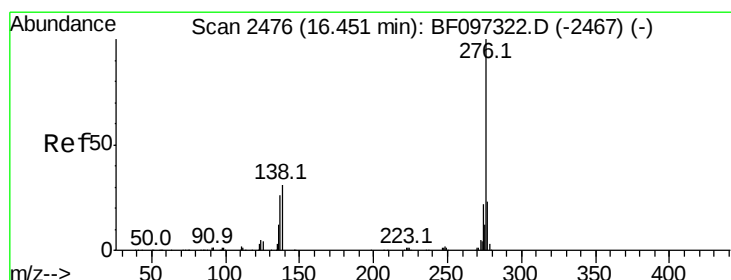
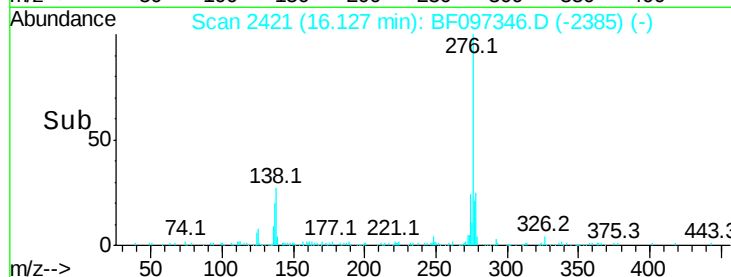
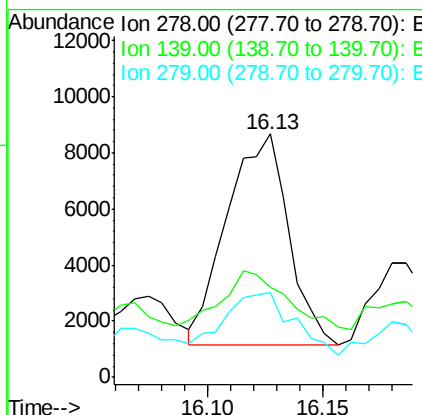
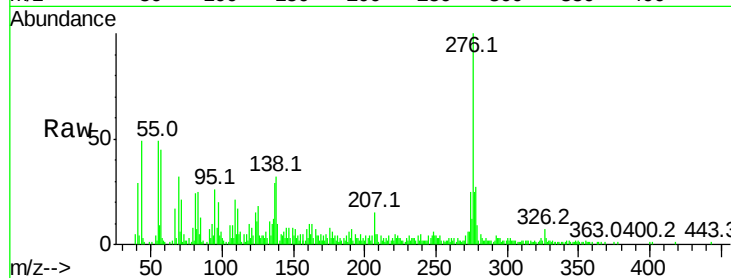
ClientSampleId :

JC-02-080117-C

Tot Ion:	278	Resp:	13901
Ion Ratio	Lower	Upper	
278	100		
139	37.0	16.6	24.8#
279	34.7	19.3	28.9#

Manual Integrations
APPROVED

Sohil
8/4/2017 5:31:10 PM



#91

Benzo(g,h,i)perylene

Concen: 12.289 ng

RT: 16.48 min Scan# 2481

Delta R.T. -0.09 min

Lab File: BF097346.D

Acq: 4 Aug 2017 5:00

Tgt Ion:	276	Resp:	55910
Ion Ratio	Lower	Upper	
276	100		
277	24.6	18.6	28.0
138	35.5	25.4	38.0

