

Data Path : Z:\HPCHEM1\BNA F\DATA\BF081717\
 Data File : BF097826.D
 Acq On : 18 Aug 2017 10:42
 Operator : SJ/JU
 Sample : I4820-01
 Misc :
 ALS Vial : 40 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 E2-110-ESW

Manual Integrations
 APPROVED

Sohil
 8/18/2017 7:03:38 PM

Quant Time: Aug 18 14:11:44 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF081517.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Aug 15 13:25:08 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.77	152	127462	20.00	ng	-0.01
21) Naphthalene-d8	8.06	136	448174	20.00	ng	-0.01
38) Acenaphthene-d10	9.81	164	158647	20.00	ng	-0.01
63) Phenanthrene-d10	11.30	188	273791	20.00	ng	0.00
75) Chrysene-d12	13.93	240	236885	20.00	ng	0.00
86) Perylene-d12	15.37	264	170863	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.39	112	1027065	122.57	ng	0.00
7) Phenol-d6	6.41	99	1359028	119.36	ng	0.00
23) Nitrobenzene-d5	7.34	82	803834	97.44	ng	-0.01
41) 2,4,6-Tribromophenol	10.60	330	164396	119.43	ng	-0.01
44) 2-Fluorobiphenyl	9.14	172	949935	87.97	ng	0.00
78) Terphenyl-d14	12.89	244	624072	54.94	ng	0.00
Target Compounds						
31) Naphthalene	8.08	128	64529	2.773	ng	99
48) Acenaphthylene	9.67	152	41377	2.465	ng	98
49) Dimethylphthalate	9.53	163	164014	14.143	ng	99
51) Acenaphthene	9.85	154	44276	4.182	ng	98
70) Phenanthrene	11.32	178	323949	22.204	ng	99
71) Anthracene	11.37	178	118672	8.020	ng	98
72) Carbazole	11.52	167	44155	3.144	ng	99
74) Fluoranthene	12.51	202	748230	49.135	ng	99
77) Pyrene	12.74	202	836570	43.179	ng	99
80) Benzo(a)anthracene	13.93	228	551648	38.855	ng	96
82) Chrysene	13.96	228	505172	35.769	ng	97
85) Indeno(1,2,3-cd)pyrene	16.77	276	373474m	35.947	ng	
87) Benzo(b)fluoranthene	14.96	252	694133m	64.450	ng	
88) Benzo(k)fluoranthene	14.99	252	273100m	26.990	ng	
89) Benzo(a)pyrene	15.32	252	576561	60.471	ng	97
90) Dibenzo(a,h)anthracene	16.78	278	87926	11.328	ng	94
91) Benzo(a,h,i)perylene	17.20	276	337891	41.719	ng	93

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

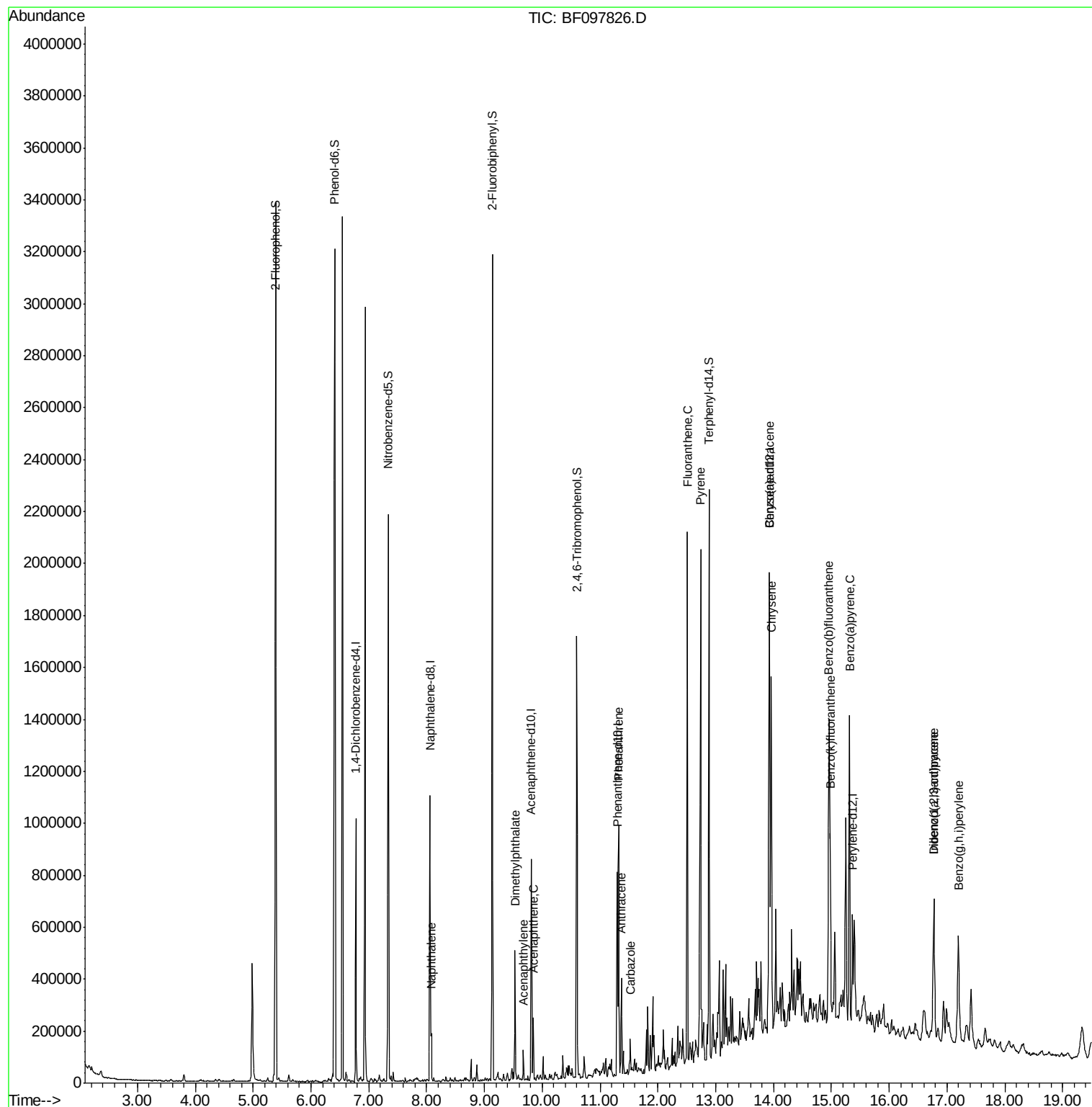
Data Path : Z:\HPCHEM1\BNA F\DATA\BF081717\
Data File : BF097826.D
Acq On : 18 Aug 2017 10:42
Operator : SJ/JU
Sample : I4820-01
Misc :
ALS Vial : 40 Sample Multiplier: 1

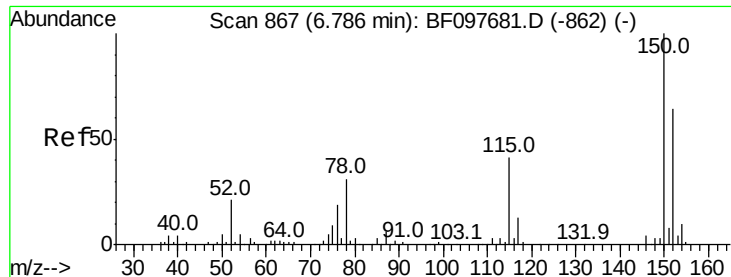
Instrument :
BNA_F
ClientSampleId :
E2-110-ESW

Manual Integrations
APPROVED

Sohil
8/18/2017 7:03:38 PM

Quant Time: Aug 18 14:11:44 2017
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF081517.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Aug 15 13:25:08 2017
Response via : Initial Calibration





#1

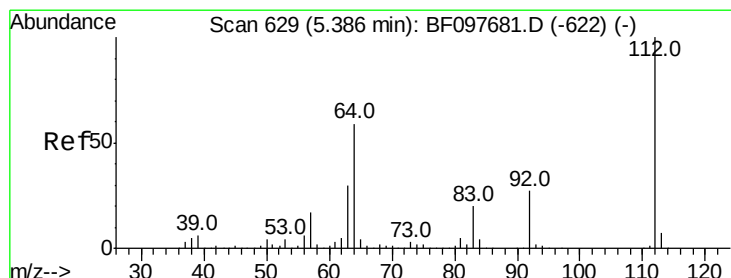
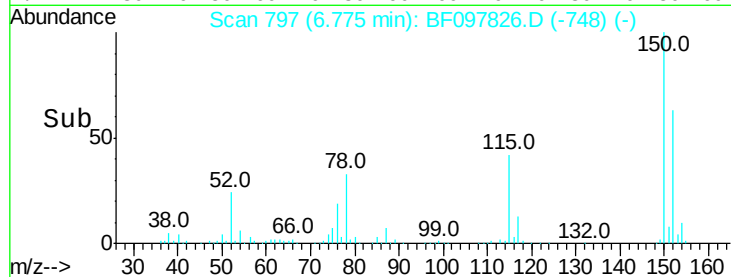
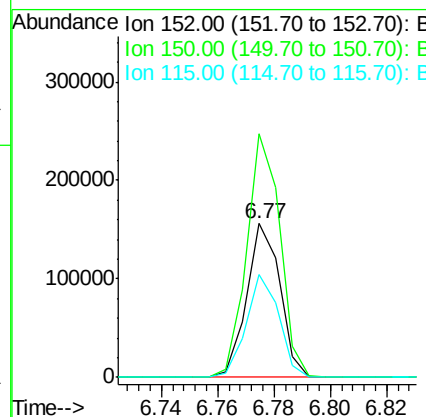
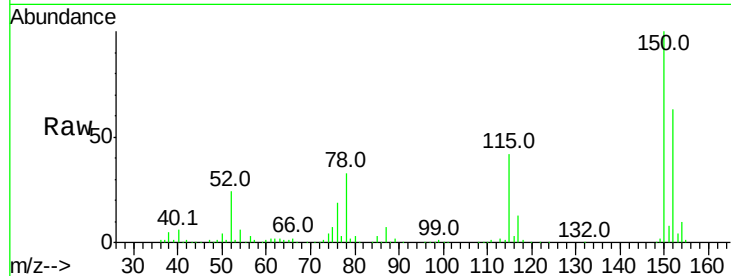
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.77 min Scan# 797
Delta R.T. -0.01 min
Lab File: BF097826.D
Acq: 18 Aug 2017 10:42

Instrument :
BNA_F
ClientSampleId :
E2-110-ESW

Tot Ion	Ratio	Lower	Upper
152	100		
150	158.1	126.2	189.2
115	66.9	52.2	78.2

Manual Integrations
APPROVED

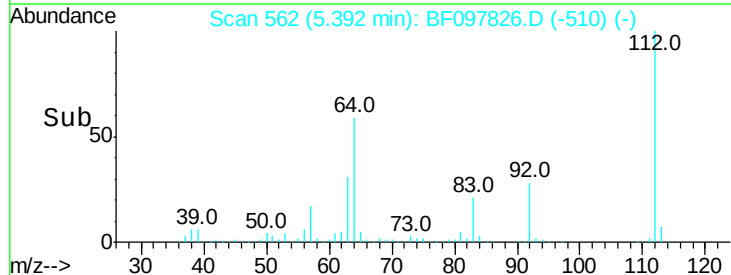
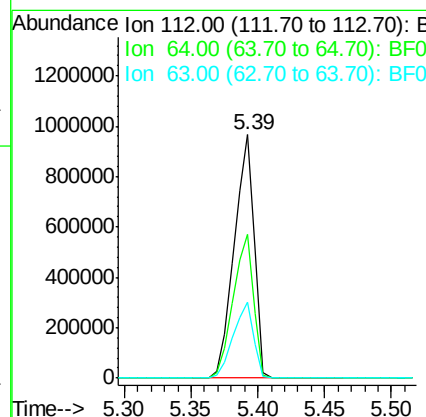
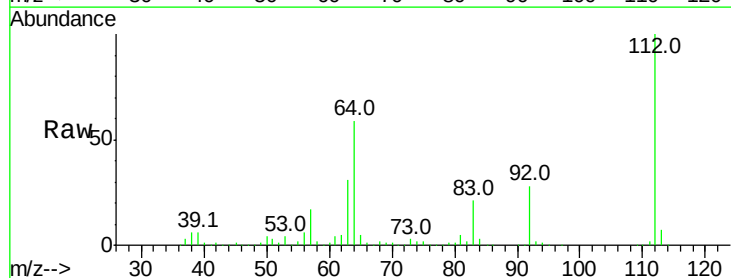
Sohil
8/18/2017 7:03:38 PM

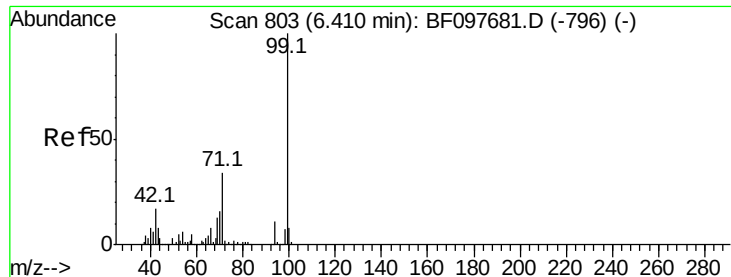


#5

2-Fluorophenol
Concen: 122.565 ng
RT: 5.39 min Scan# 562
Delta R.T. 0.01 min
Lab File: BF097826.D
Acq: 18 Aug 2017 10:42

Tgt Ion	Ratio	Lower	Upper
112	100		
64	59.1	46.0	69.0
63	31.2	23.4	35.0





#7

Phenol-d6

Concen: 119.363 ng

RT: 6.41 min Scan# 735

Delta R.T. 0.00 min

Lab File: BF097826.D

Acq: 18 Aug 2017 10:42

Instrument :

BNA_F

ClientSampleId :

E2-110-ESW

Tot Ion: 99 Resp: 1359028

Ion Ratio Lower Upper

99 100

42 16.3 13.5 20.3

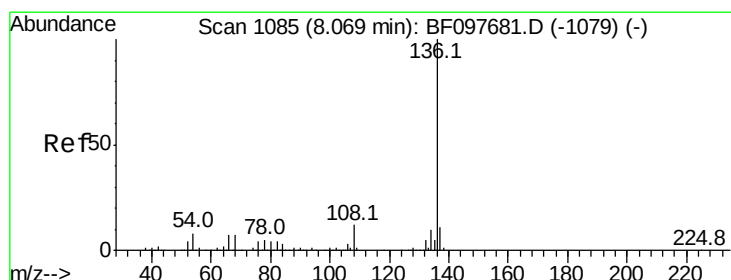
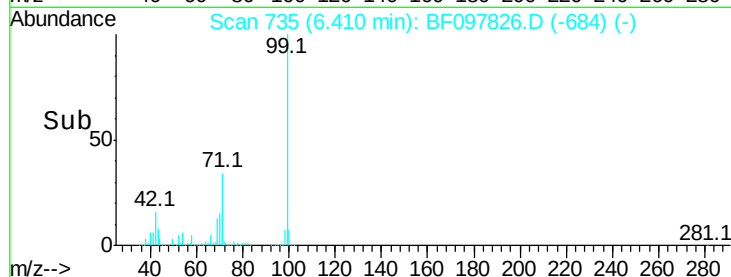
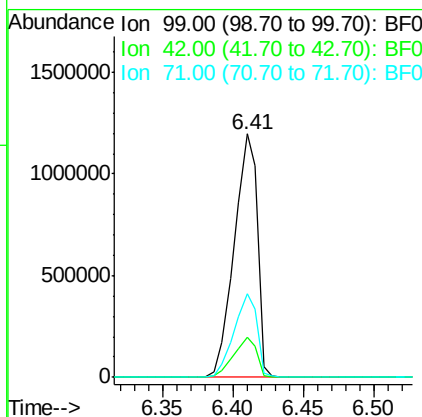
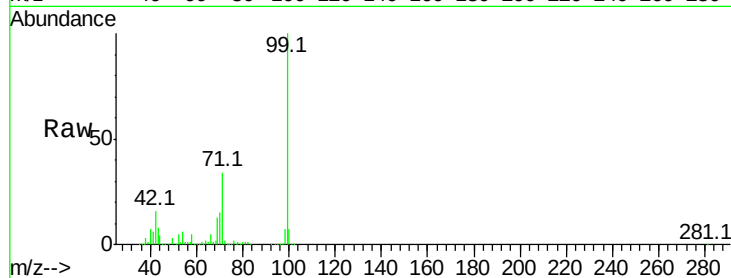
71 34.4 24.5 36.7

Manual Integrations

APPROVED

Sohil

8/18/2017 7:03:38 PM



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.06 min Scan# 1015

Delta R.T. -0.01 min

Lab File: BF097826.D

Acq: 18 Aug 2017 10:42

Tgt Ion: 136 Resp: 448174

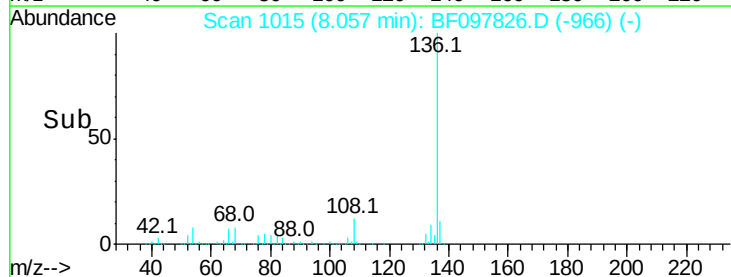
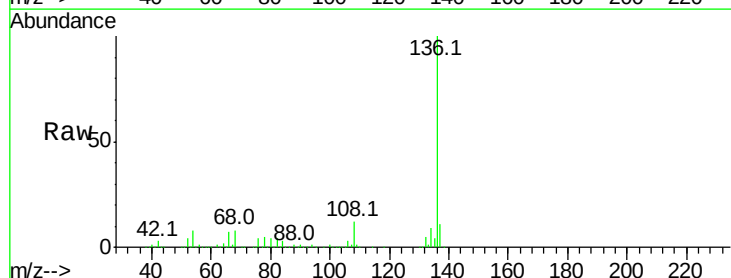
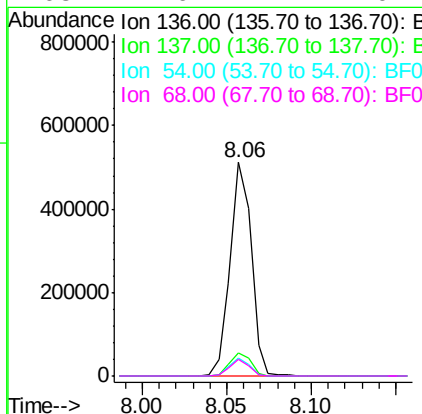
Ion Ratio Lower Upper

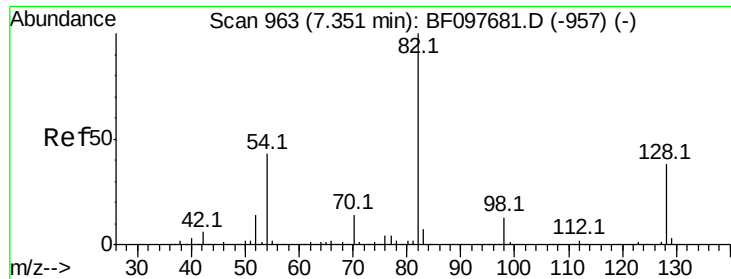
136 100

137 11.0 8.5 12.7

54 8.4 4.9 7.3#

68 7.6 4.1 6.1#





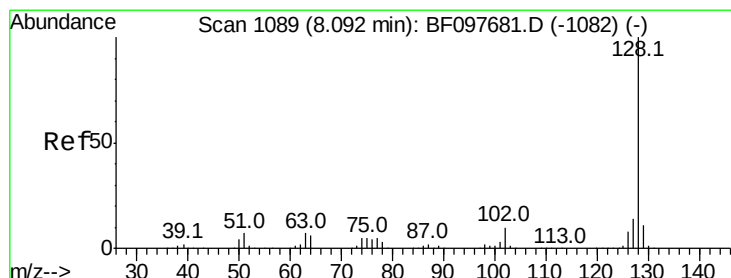
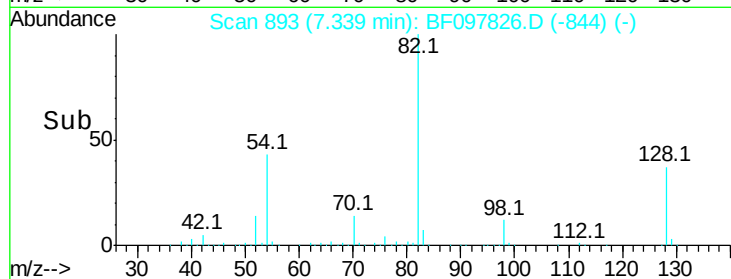
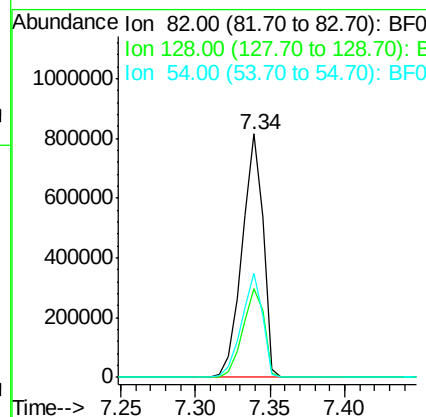
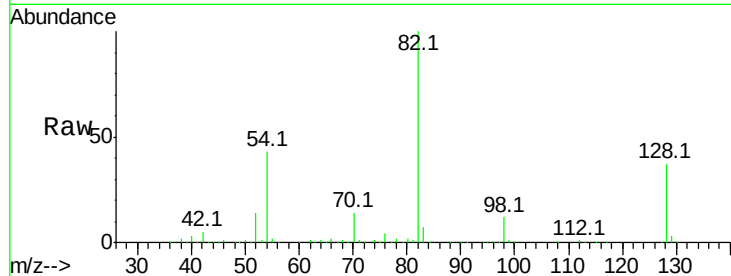
#23
 Nitrobenzene-d5
 Concen: 97.435 ng
 RT: 7.34 min Scan# 893
 Delta R.T. -0.01 min
 Lab File: BF097826.D
 Acq: 18 Aug 2017 10:42

Instrument :
 BNA_F
 ClientSampled :
 E2-110-ESW

Tot Ion	Ratio	Resp	Lower	Upper
82	100			
128	36.6	34.0	51.0	
54	42.8	42.2	63.2	

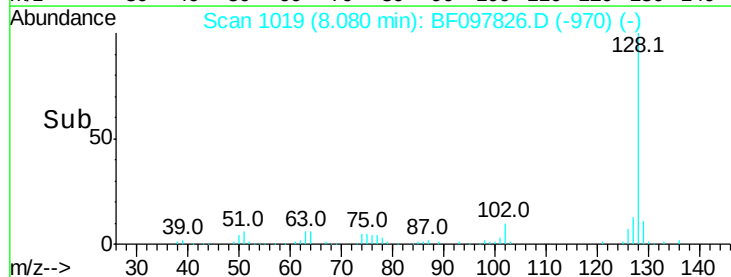
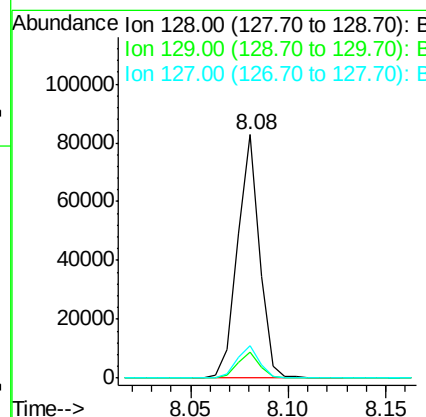
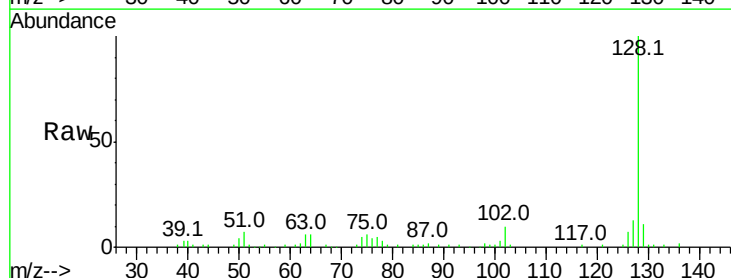
Manual Integrations
 APPROVED

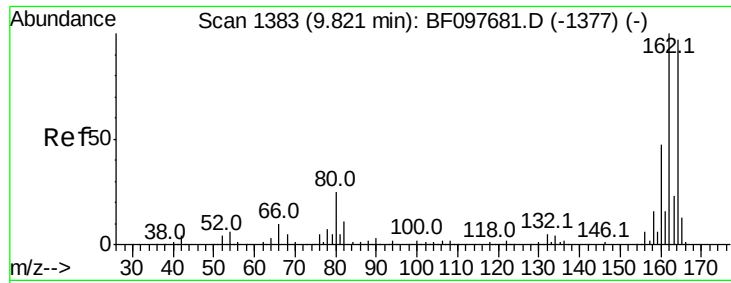
Sohil
 8/18/2017 7:03:38 PM



#31
 Naphthalene
 Concen: 2.773 ng
 RT: 8.08 min Scan# 1019
 Delta R.T. -0.01 min
 Lab File: BF097826.D
 Acq: 18 Aug 2017 10:42

Tgt Ion	Ratio	Resp	Lower	Upper
128	100			
129	10.9	9.0	13.6	
127	13.4	10.8	16.2	





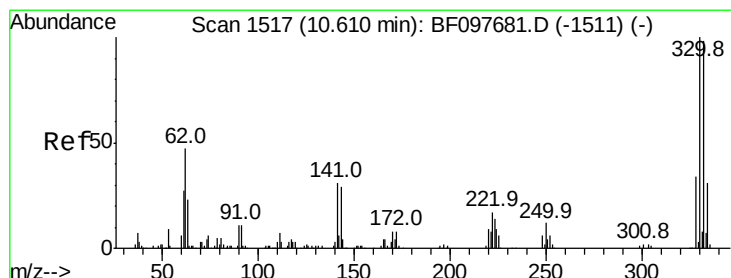
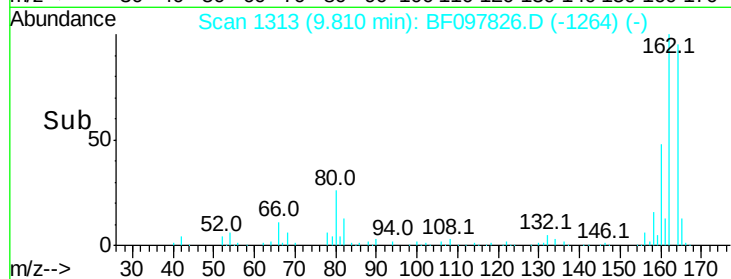
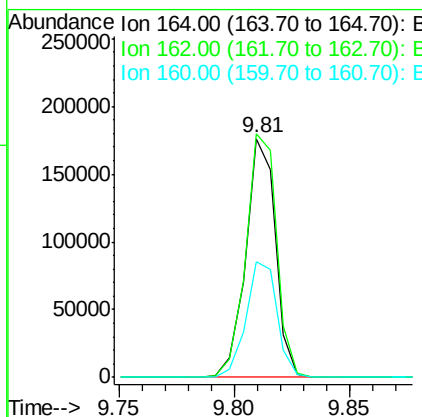
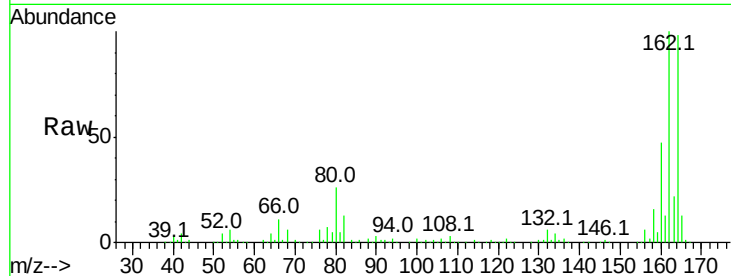
#38
 Acenaphthene-d10
 Concen: 20.000 ng
 RT: 9.81 min Scan# 1313
 Delta R.T. -0.01 min
 Lab File: BF097826.D
 Acq: 18 Aug 2017 10:42

Instrument :
 BNA_F
 ClientSampleId :
 E2-110-ESW

Tot Ion	Ratio	Resp	Lower	Upper
164	100	158647		
162	101.8	82.6	123.8	
160	48.2	36.2	54.2	

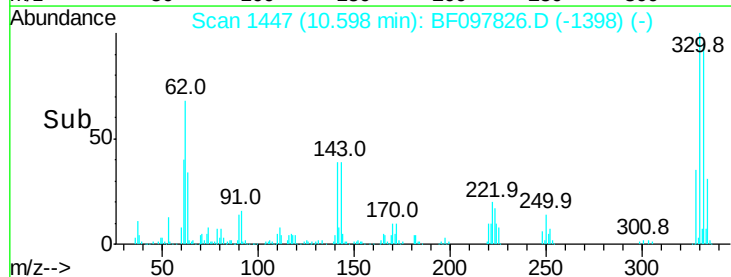
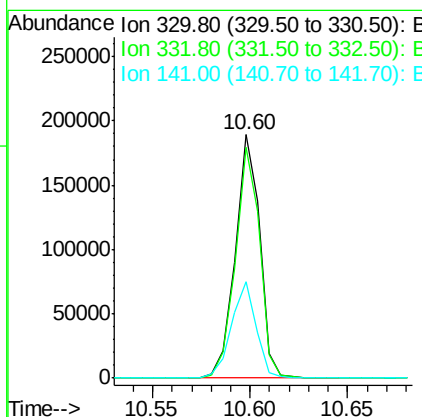
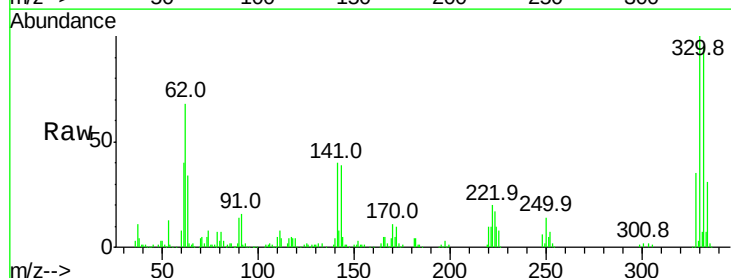
Manual Integrations
 APPROVED

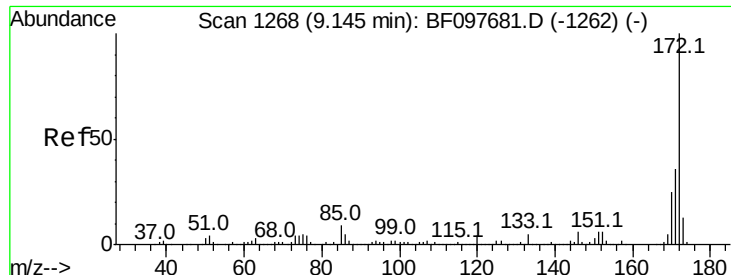
Sohil
 8/18/2017 7:03:38 PM



#41
 2,4,6-Tribromophenol
 Concen: 119.429 ng
 RT: 10.60 min Scan# 1447
 Delta R.T. -0.01 min
 Lab File: BF097826.D
 Acq: 18 Aug 2017 10:42

Tgt Ion	Ratio	Resp	Lower	Upper
330	100	164396		
332	94.6	76.6	115.0	
141	39.7	31.4	47.2	





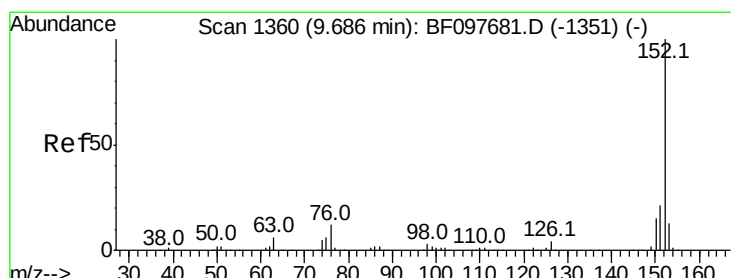
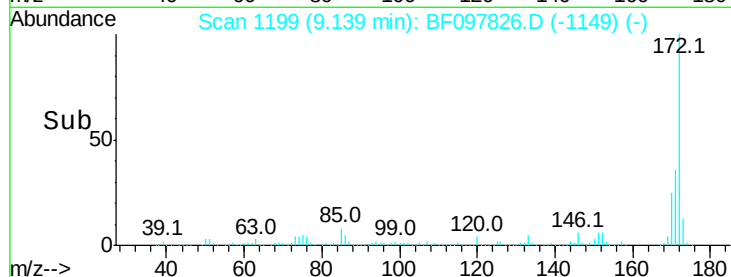
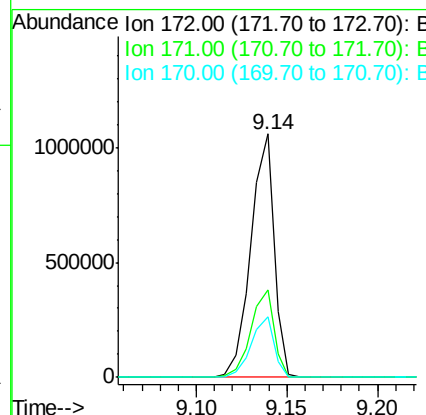
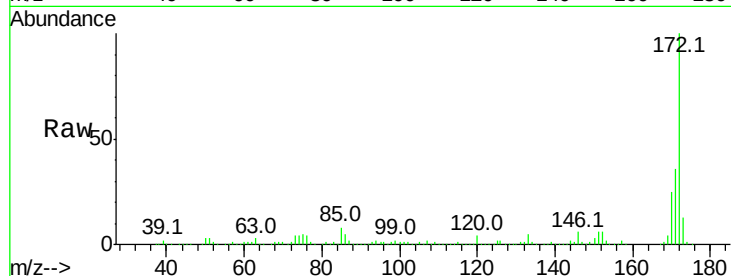
#44
2-Fluorobiphenyl
Concen: 87.972 ng
RT: 9.14 min Scan# 1199
Delta R.T. -0.01 min
Lab File: BF097826.D
Acq: 18 Aug 2017 10:42

Instrument :
BNA_F
ClientSampled :
E2-110-ESW

Tot Ion	Ratio	Resp	Lower	Upper
172	100	949935		
171	35.7		29.6	44.4
170	24.9		19.8	29.8

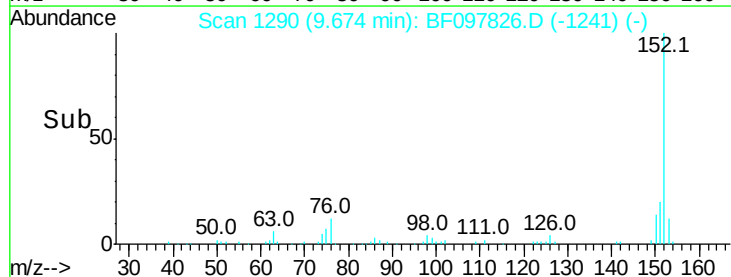
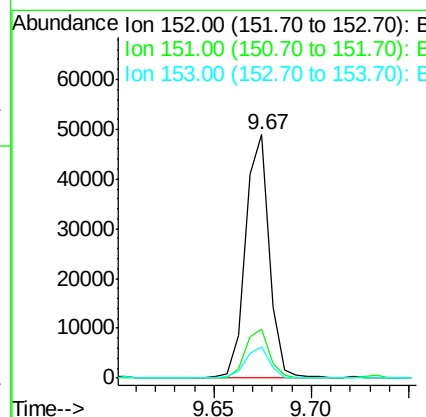
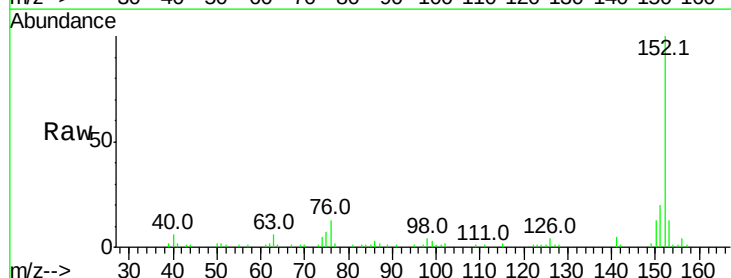
Manual Integrations
APPROVED

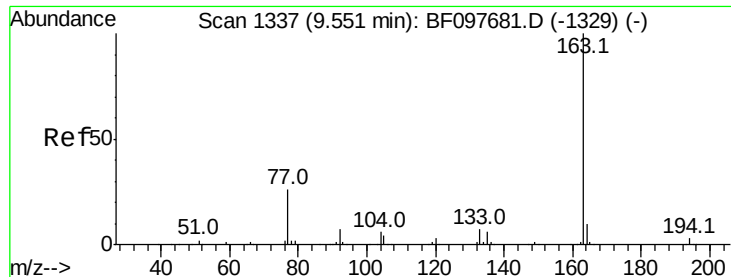
Sohil
8/18/2017 7:03:38 PM



#48
Acenaphthylene
Concen: 2.465 ng
RT: 9.67 min Scan# 1290
Delta R.T. -0.01 min
Lab File: BF097826.D
Acq: 18 Aug 2017 10:42

Tgt Ion	Ratio	Resp	Lower	Upper
152	100	41377		
151	20.2		16.8	25.2
153	13.0		10.8	16.2





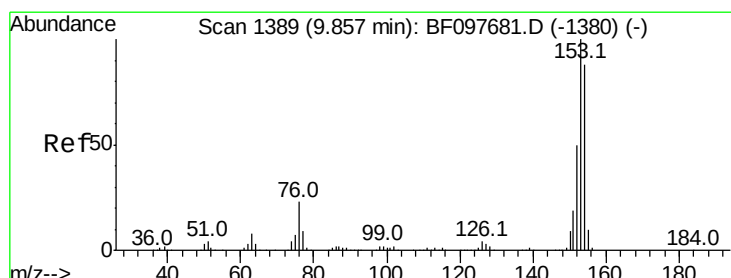
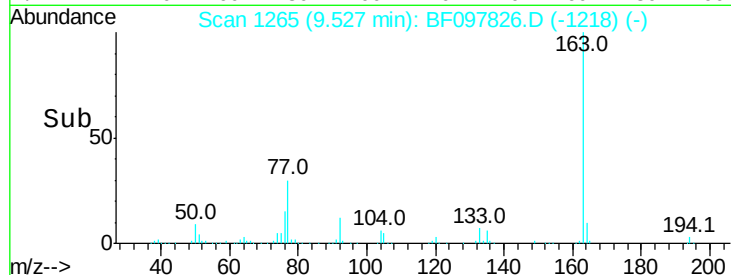
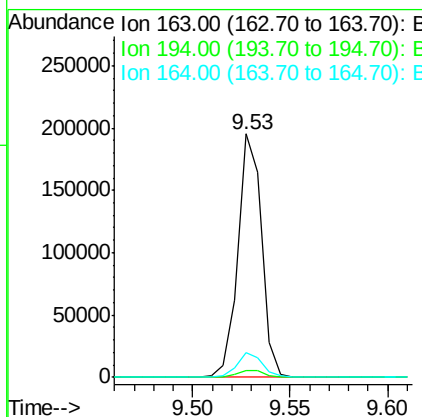
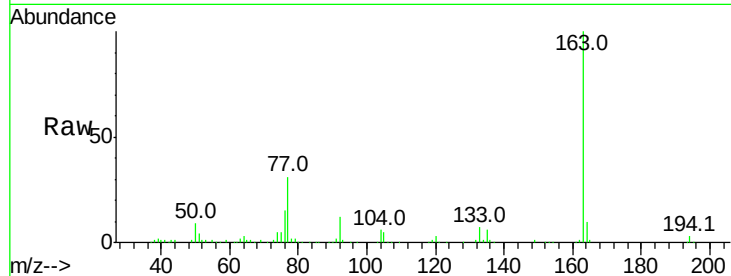
#49
Dimethylphthalate
Concen: 14.143 ng
RT: 9.53 min Scan# 1265
Delta R.T. -0.02 min
Lab File: BF097826.D
Acq: 18 Aug 2017 10:42

Instrument :
BNA_F
ClientSampled :
E2-110-ESW

Tot Ion	Ratio	Resp	Lower	Upper
163	100	164014		
194	3.0		2.6	4.0
164	10.3		8.4	12.6

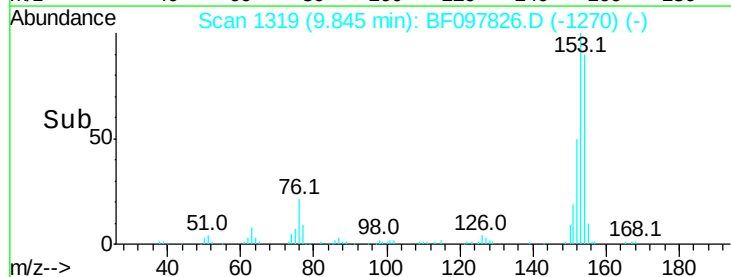
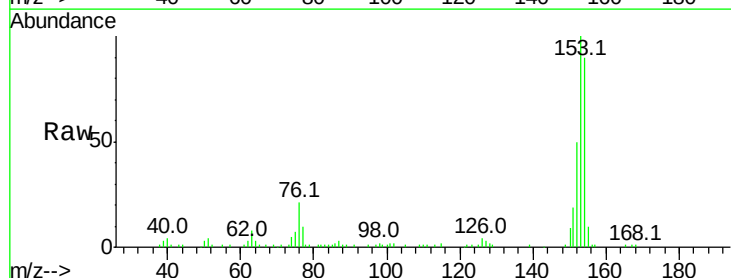
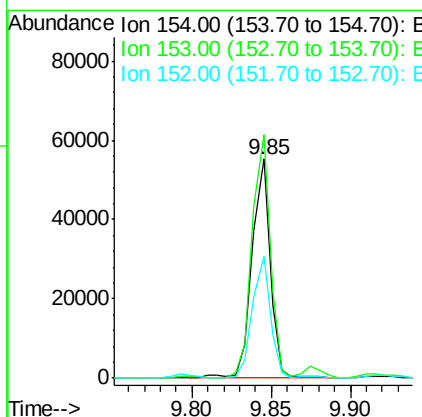
Manual Integrations
APPROVED

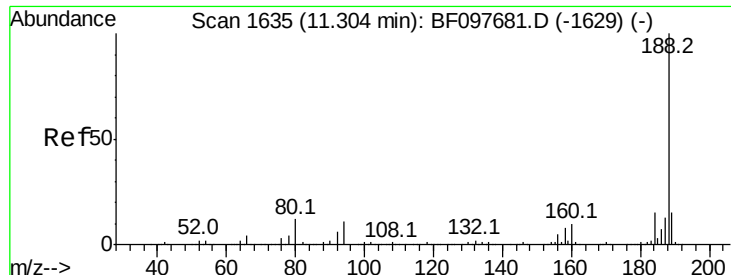
Sohil
8/18/2017 7:03:38 PM



#51
Acenaphthene
Concen: 4.182 ng
RT: 9.85 min Scan# 1319
Delta R.T. -0.01 min
Lab File: BF097826.D
Acq: 18 Aug 2017 10:42

Tgt Ion	Ratio	Resp	Lower	Upper
154	100	44276		
153	111.2		90.5	135.7
152	56.0		43.6	65.4





#63

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.30 min Scan# 1566

Delta R.T. -0.01 min

Lab File: BF097826.D

Acq: 18 Aug 2017 10:42

Instrument :

BNA_F

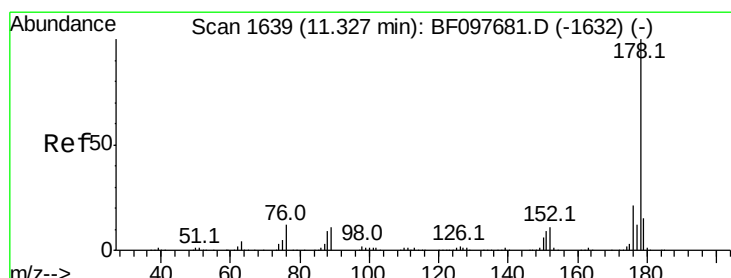
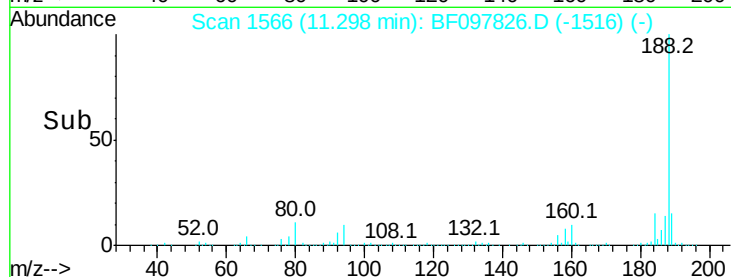
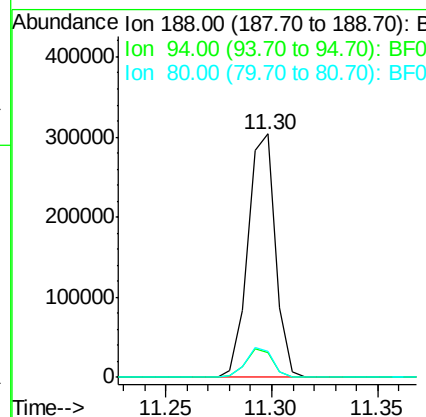
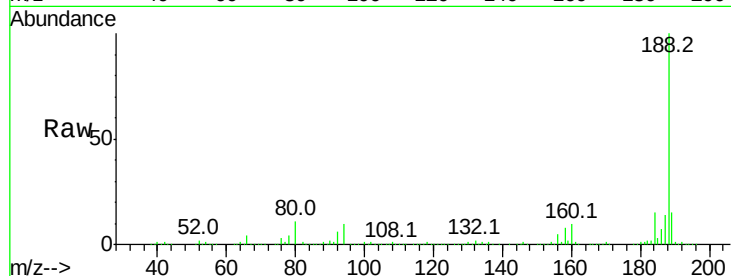
ClientSampleId :

E2-110-ESW

Tot Ion:	188	Resp:	273791
Ion Ratio	Lower	Upper	
188	100		
94	10.1	9.4	14.2
80	10.9	10.2	15.2

Manual Integrations
APPROVED

Sohil
8/18/2017 7:03:38 PM



#70

Phenanthrene

Concen: 22.204 ng

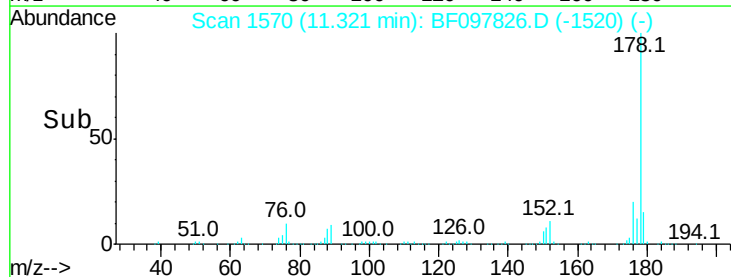
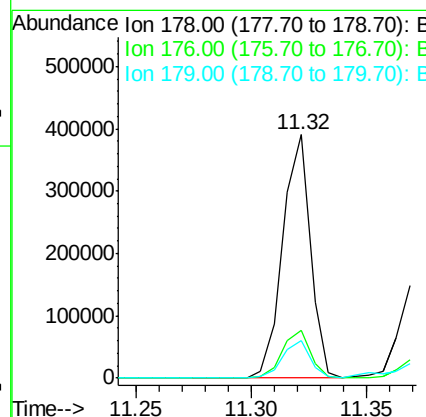
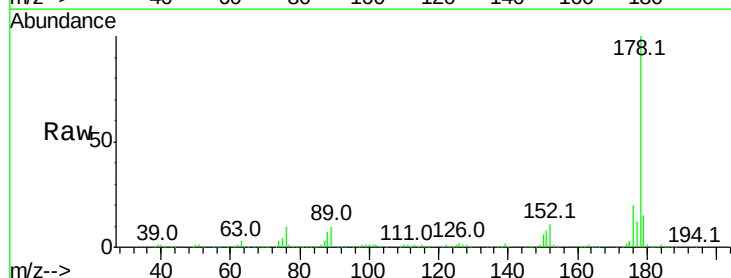
RT: 11.32 min Scan# 1570

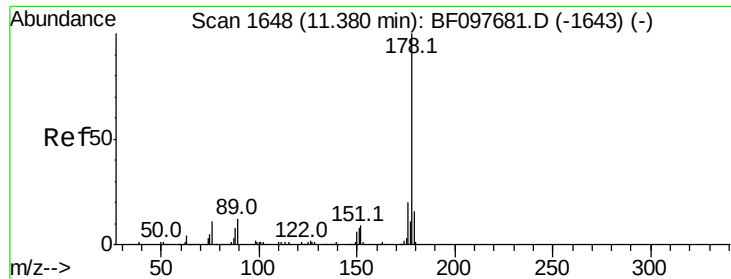
Delta R.T. -0.01 min

Lab File: BF097826.D

Acq: 18 Aug 2017 10:42

Tgt Ion:	178	Resp:	323949
Ion Ratio	Lower	Upper	
178	100		
176	19.7	16.2	24.4
179	15.3	12.6	19.0





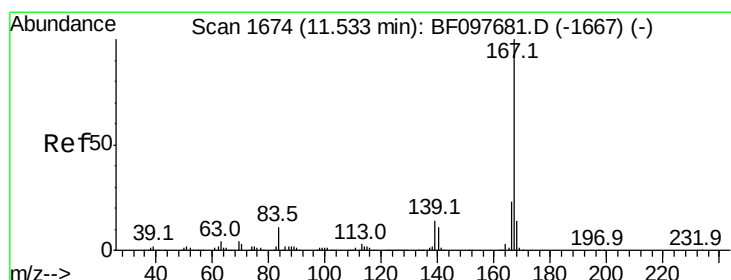
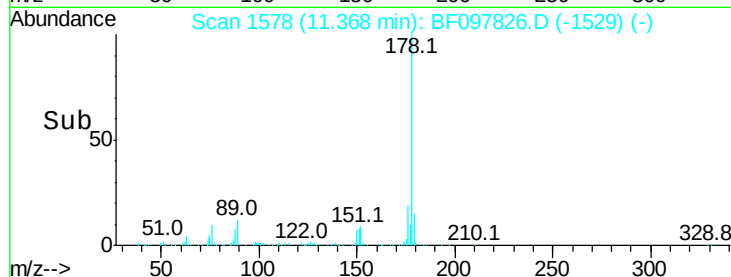
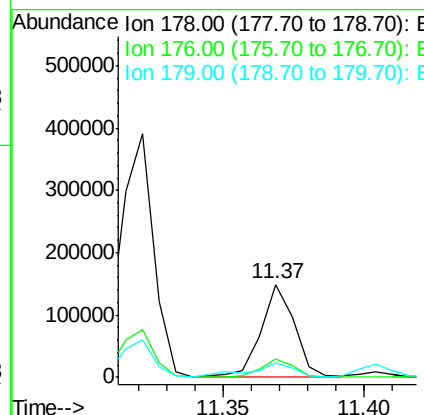
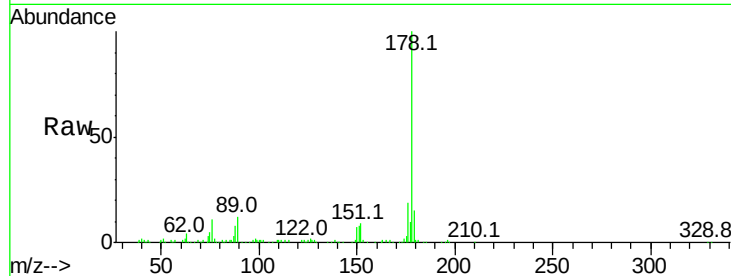
#71
 Anthracene
 Concen: 8.020 ng
 RT: 11.37 min Scan# 1578
 Delta R.T. -0.01 min
 Lab File: BF097826.D
 Acq: 18 Aug 2017 10:42

Instrument :
 BNA_F
 ClientSampled :
 E2-110-ESW

Tot Ion	Ratio	Lower	Upper
178	100		
176	19.3	15.8	23.8
179	15.0	12.7	19.1

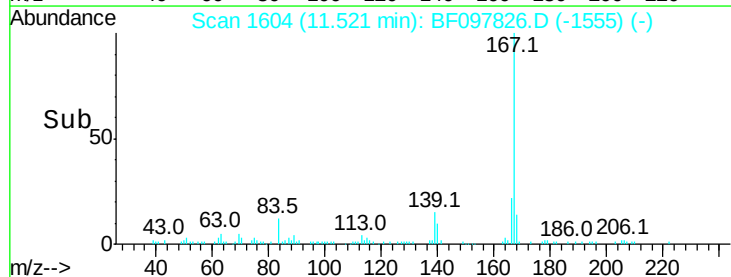
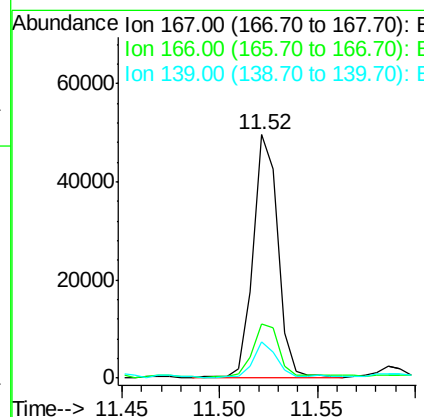
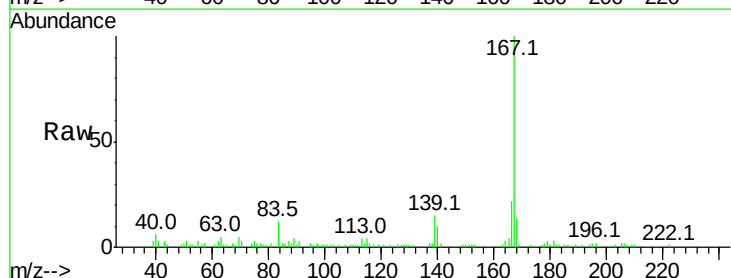
Manual Integrations
 APPROVED

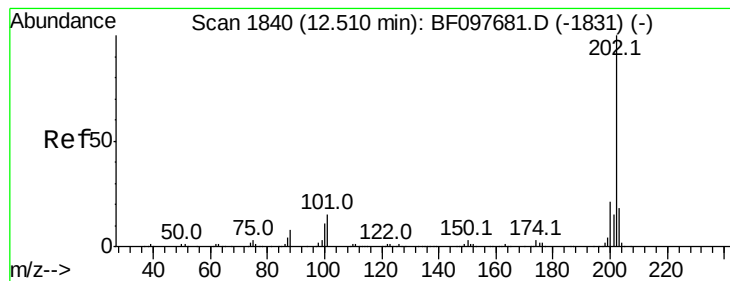
Sohil
 8/18/2017 7:03:38 PM



#72
 Carbazole
 Concen: 3.144 ng
 RT: 11.52 min Scan# 1604
 Delta R.T. -0.01 min
 Lab File: BF097826.D
 Acq: 18 Aug 2017 10:42

Tgt Ion	Ratio	Lower	Upper
167	100		
166	22.4	18.1	27.1
139	15.0	11.7	17.5





#74

Fluoranthene

Concen: 49.135 ng

RT: 12.51 min Scan# 1772

Delta R.T. 0.00 min

Lab File: BF097826.D

Acq: 18 Aug 2017 10:42

Instrument :

BNA_F

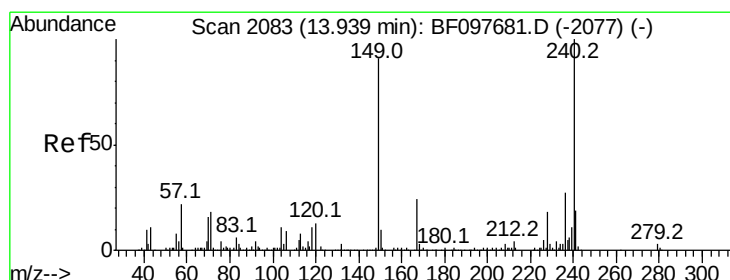
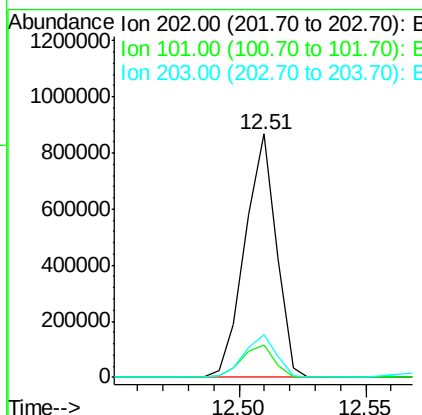
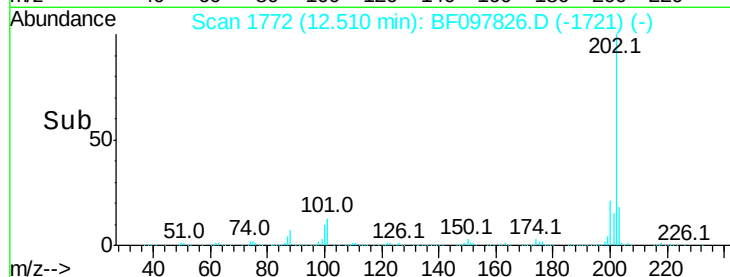
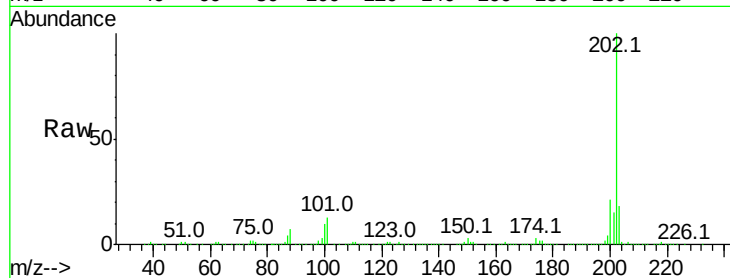
ClientSampled :

E2-110-ESW

Tot Ion	Ratio	Resp	Lower	Upper
202	100			
101	13.4	0.0	33.2	
203	17.7	0.0	38.1	

Manual Integrations
APPROVED

Sohil
8/18/2017 7:03:38 PM



#75

Chrysene-d12

Concen: 20.000 ng

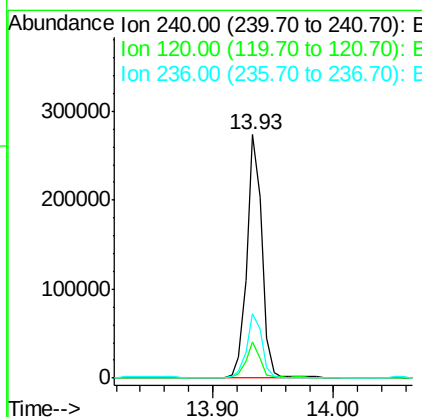
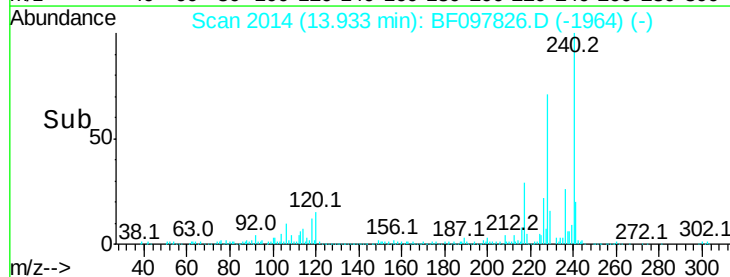
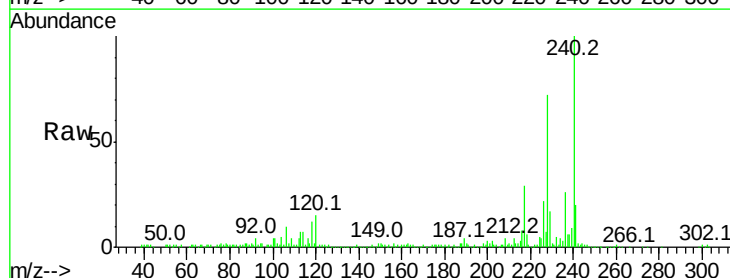
RT: 13.93 min Scan# 2014

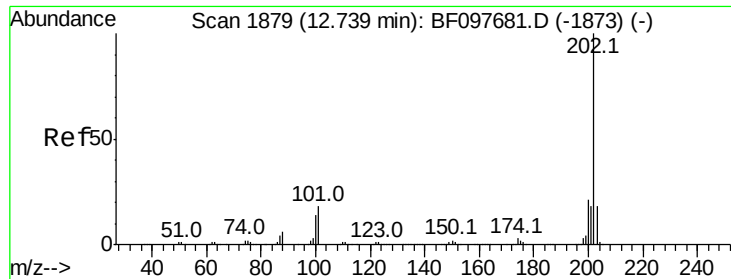
Delta R.T. -0.01 min

Lab File: BF097826.D

Acq: 18 Aug 2017 10:42

Tgt Ion	Ratio	Resp	Lower	Upper
240	100			
120	14.7	5.8	8.8#	
236	26.4	20.5	30.7	





#77

Pvrene

Concen: 43.179 ng

RT: 12.74 min Scan# 1811

Delta R.T. 0.00 min

Lab File: BF097826.D

Acq: 18 Aug 2017 10:42

Instrument :

BNA_F

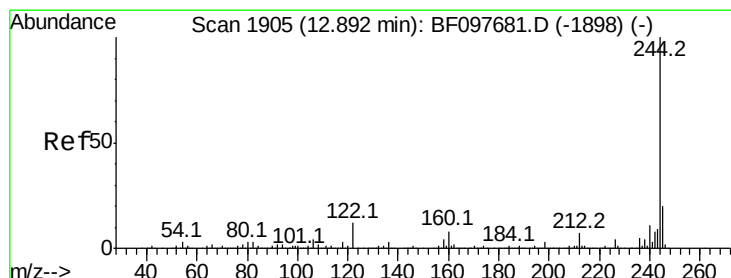
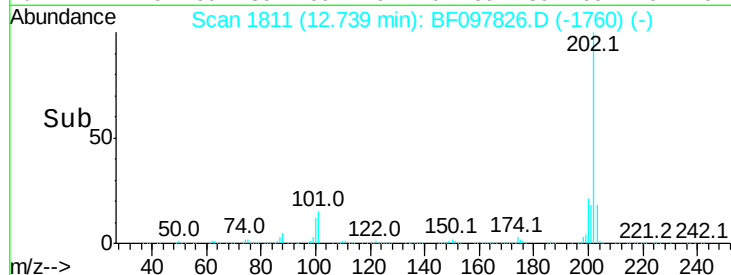
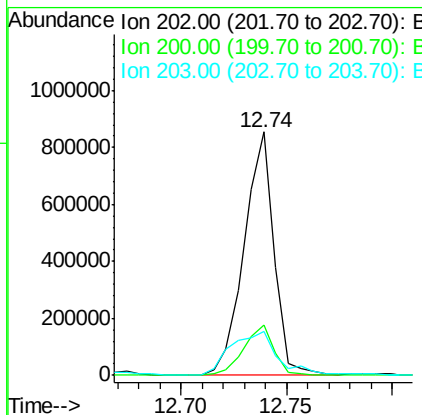
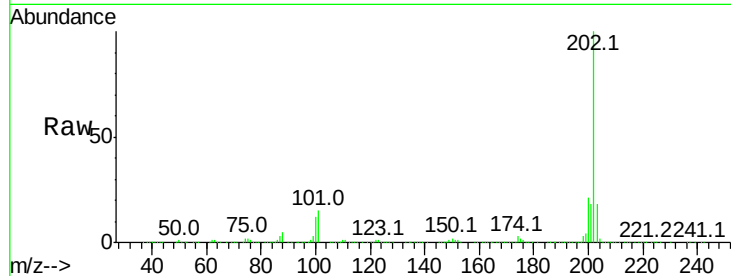
ClientSampled :

E2-110-ESW

Tot Ion:	202	Resp:	836570
Ion Ratio	Lower	Upper	
202	100		
200	20.9	17.6	26.4
203	18.0	14.4	21.6

Manual Integrations
APPROVED

Sohil
8/18/2017 7:03:38 PM



#78

Terphenyl-d14

Concen: 54.938 ng

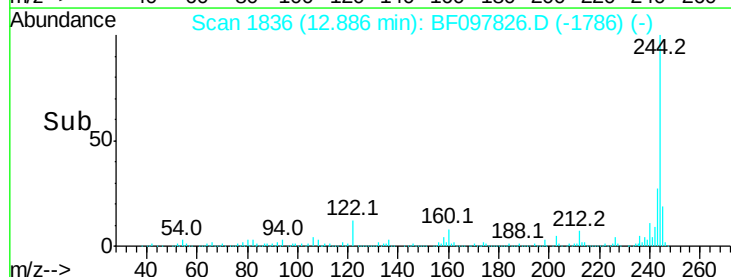
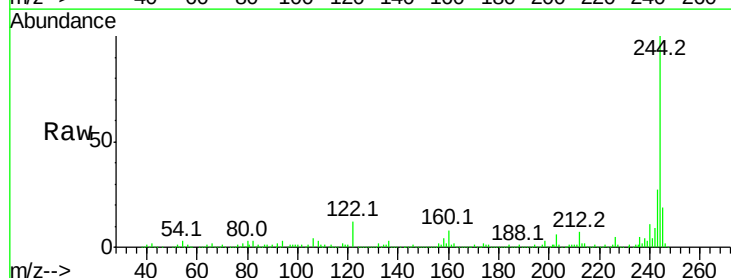
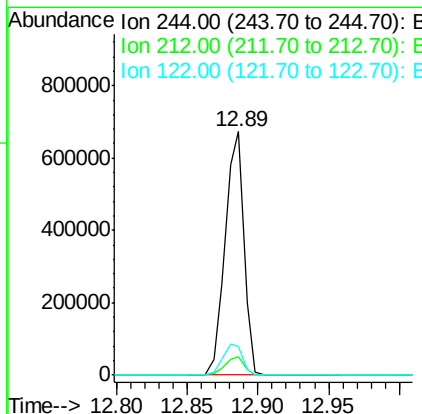
RT: 12.89 min Scan# 1836

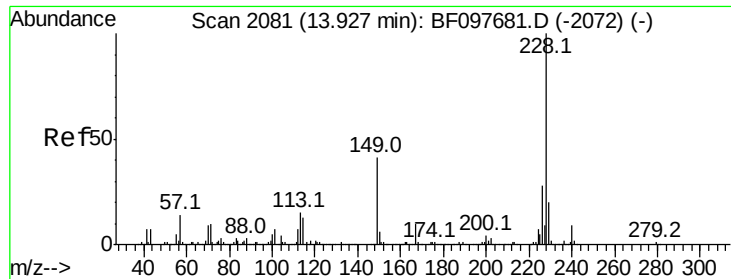
Delta R.T. -0.01 min

Lab File: BF097826.D

Acq: 18 Aug 2017 10:42

Tgt Ion:	244	Resp:	624072
Ion Ratio	Lower	Upper	
244	100		
212	7.3	6.0	9.0
122	12.0	10.3	15.5





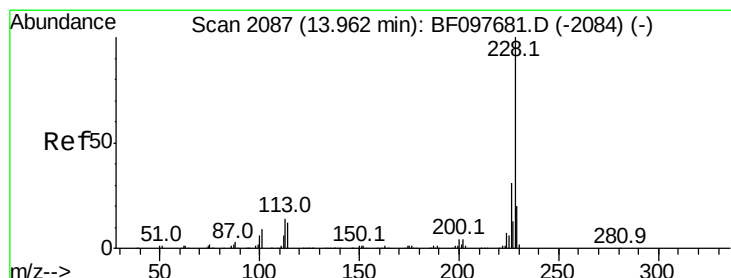
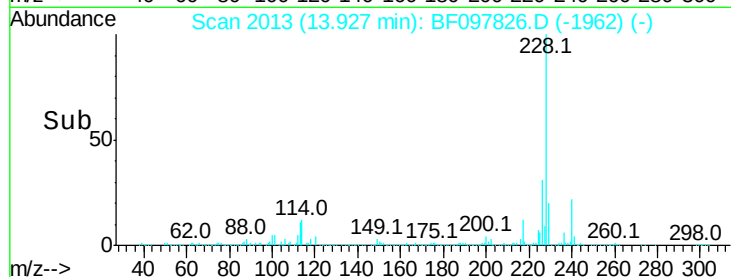
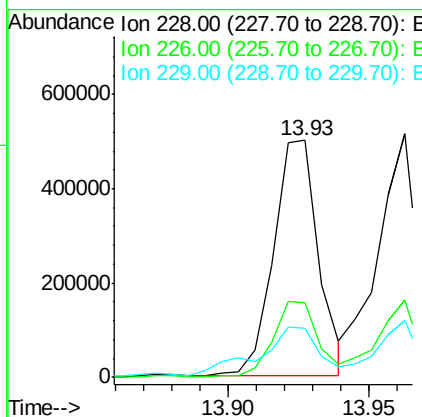
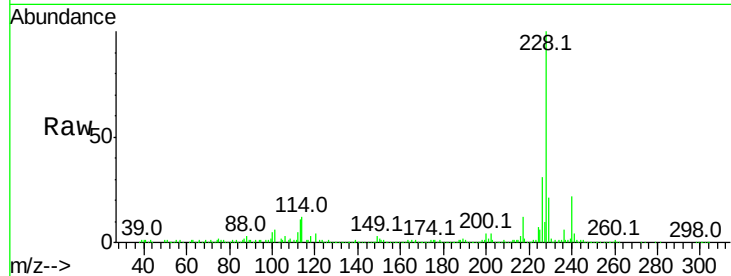
#80
Benzo(a)anthracene
Concen: 38.855 ng
RT: 13.93 min Scan# 2013
Delta R.T. 0.00 min
Lab File: BF097826.D
Acq: 18 Aug 2017 10:42

Instrument :
BNA_F
ClientSampled :
E2-110-ESW

Tot Ion	Ratio	Lower	Upper
228	100		
226	31.4	22.6	33.8
229	20.8	16.3	24.5

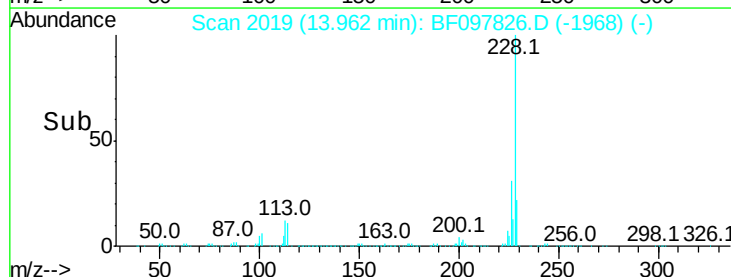
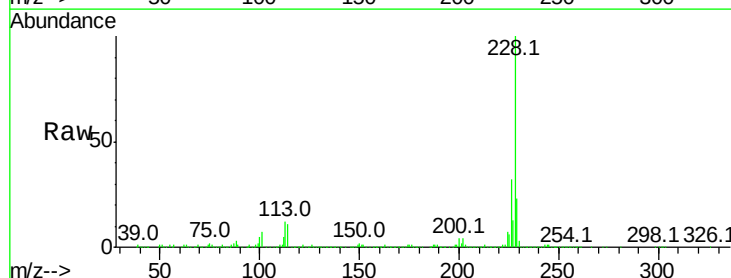
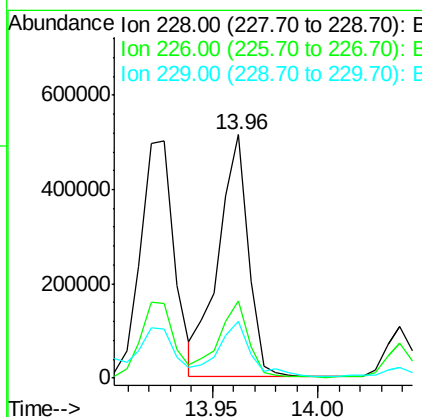
Manual Integrations
APPROVED

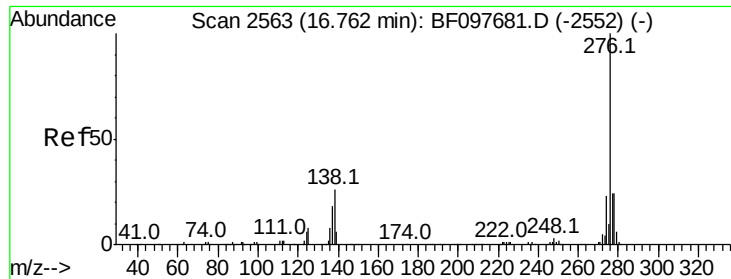
Sohil
8/18/2017 7:03:38 PM



#82
Chrysene
Concen: 35.769 ng
RT: 13.96 min Scan# 2019
Delta R.T. 0.00 min
Lab File: BF097826.D
Acq: 18 Aug 2017 10:42

Tgt Ion	Ratio	Lower	Upper
228	100		
226	31.5	24.9	37.3
229	23.1	15.8	23.6





#85

Indeno(1,2,3-cd)pyrene

Concen: 35.947 ng/mL

RT: 16.77 min Scan# 2497

Delta R.T. 0.01 min

Lab File: BF097826.D

Acq: 18 Aug 2017 10:42

Instrument :

BNA_F

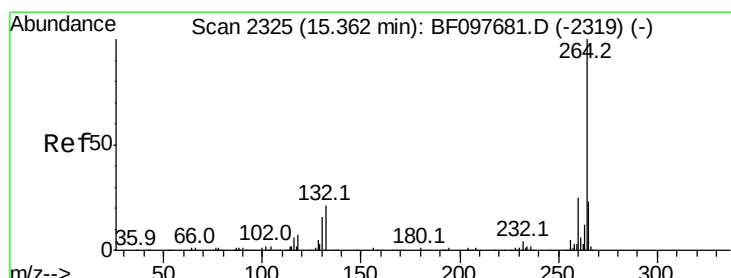
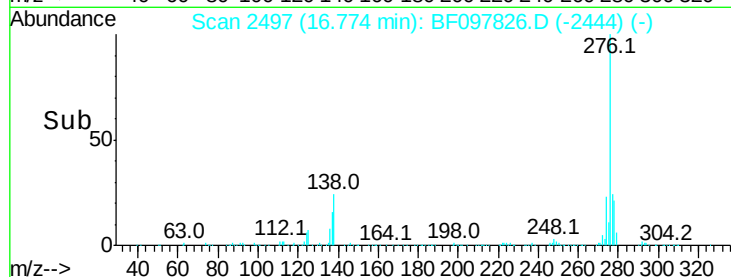
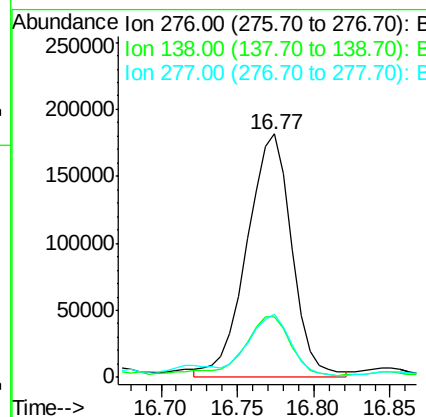
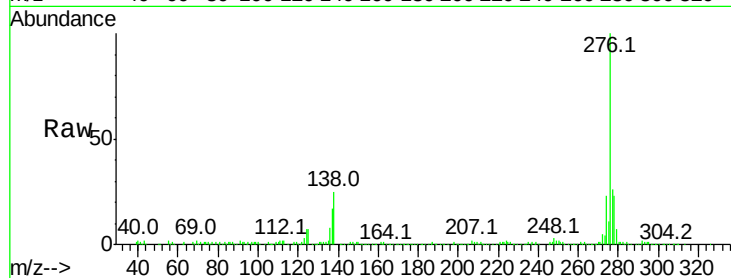
ClientSampled :

E2-110-ESW

Tot Ion	Ratio	Resp	Lower	Upper
276	100			
138	5.1	27.8	41.6#	
277	4.6	20.2	30.4#	

Manual Integrations
APPROVED

Sohil
8/18/2017 7:03:38 PM



#86

Perylene-d12

Concen: 20.000 ng

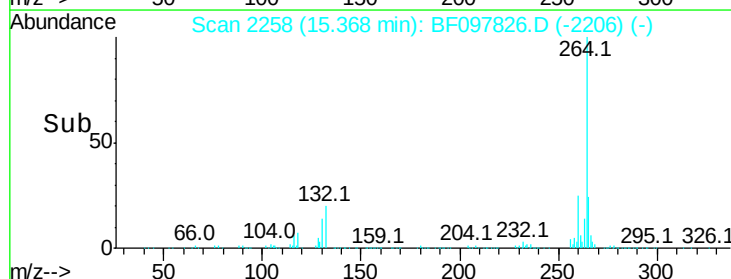
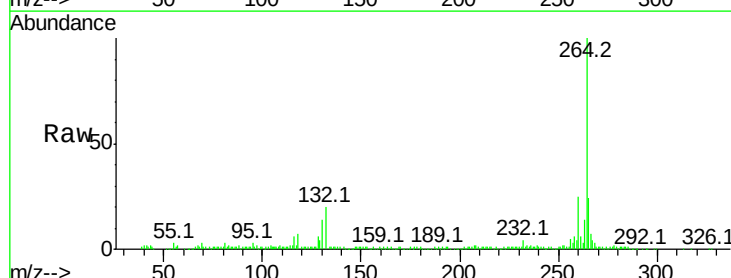
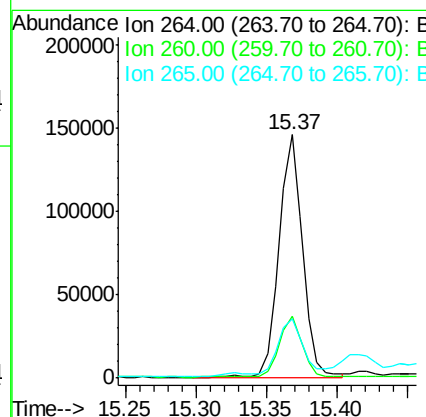
RT: 15.37 min Scan# 2258

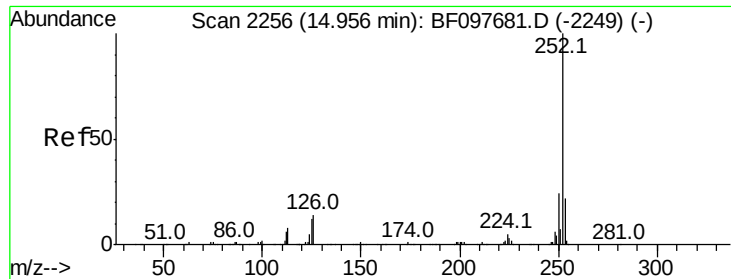
Delta R.T. 0.01 min

Lab File: BF097826.D

Acq: 18 Aug 2017 10:42

Tgt Ion	Ratio	Resp	Lower	Upper
264	100			
260	25.4	19.5	29.3	
265	24.1	17.2	25.8	





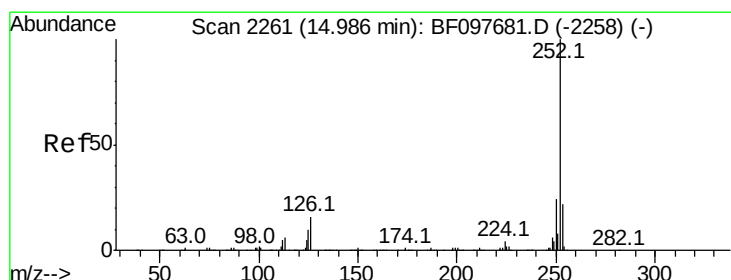
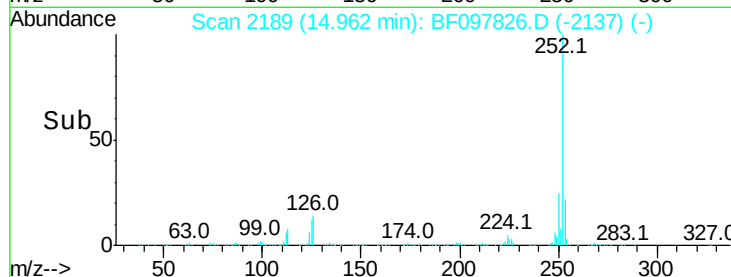
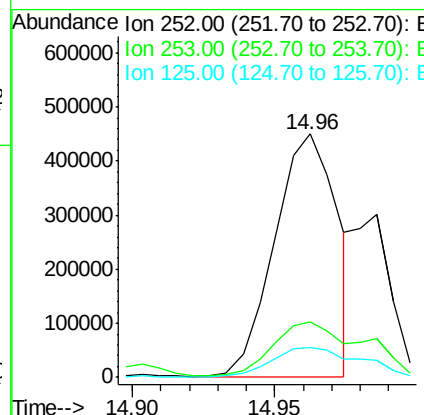
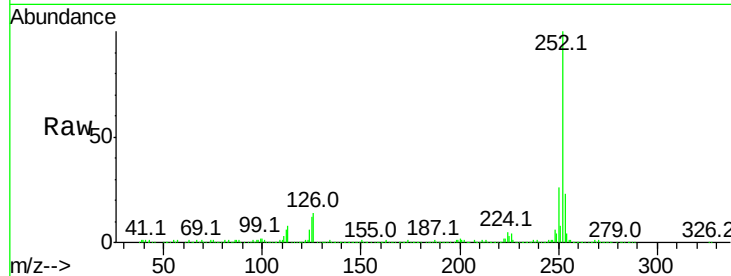
#87
Benzo(b)fluoranthene
Concen: 64.450 ng m
RT: 14.96 min Scan# 2189
Delta R.T. 0.01 min
Lab File: BF097826.D
Acq: 18 Aug 2017 10:42

Instrument :
BNA_F
ClientSampleId :
E2-110-ESW

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.0	18.1	27.1
125	12.3	9.8	14.8

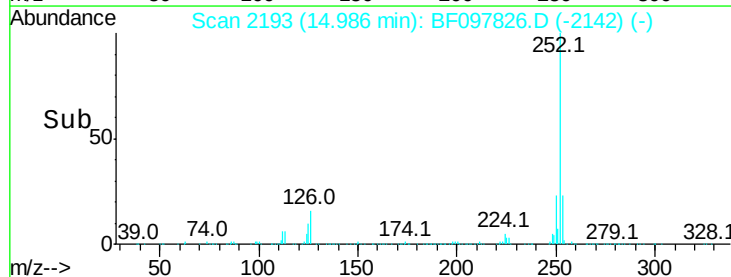
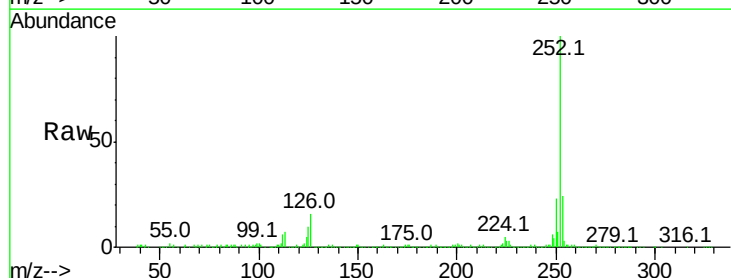
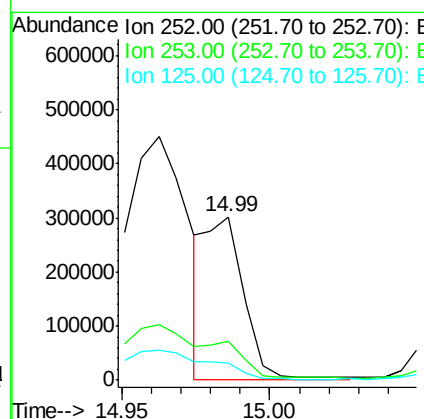
Manual Integrations
APPROVED

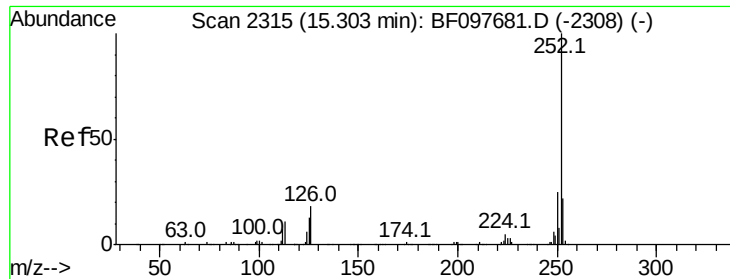
Sohil
8/18/2017 7:03:38 PM



#88
Benzo(k)fluoranthene
Concen: 26.990 ng m
RT: 14.99 min Scan# 2193
Delta R.T. 0.00 min
Lab File: BF097826.D
Acq: 18 Aug 2017 10:42

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.5	18.4	27.6
125	10.5	13.1	19.7#





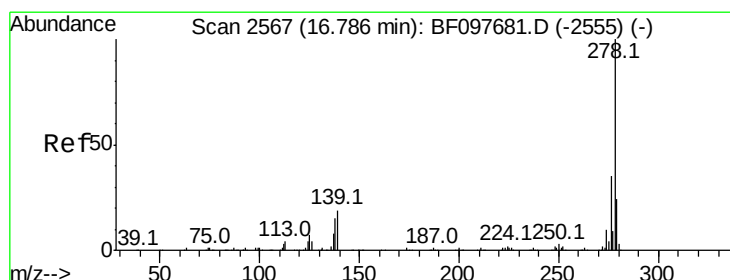
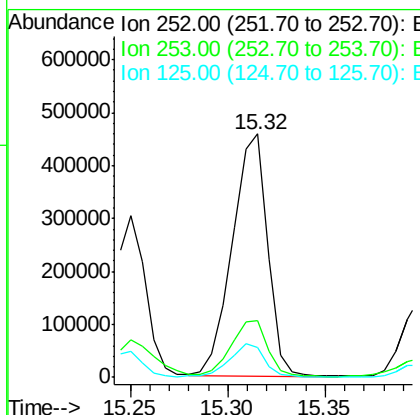
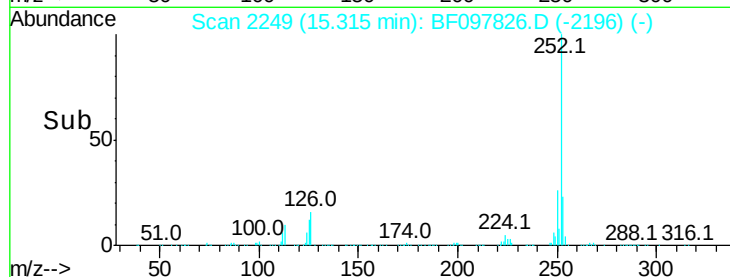
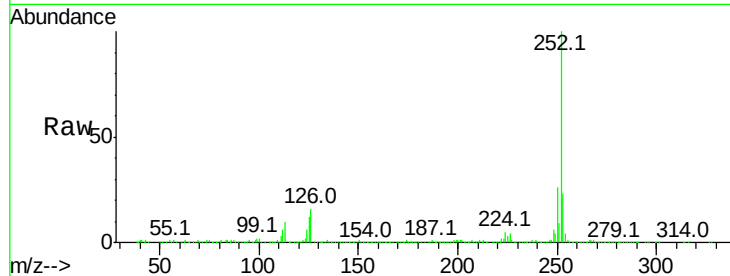
#89
Benzo(a)pyrene
Concen: 60.471 ng
RT: 15.32 min Scan# 2249
Delta R.T. 0.01 min
Lab File: BF097826.D
Acq: 18 Aug 2017 10:42

Instrument :
BNA_F
ClientSampled :
E2-110-ESW

Tot Ion	Ratio	Resp	Lower	Upper
252	100	576561		
253	23.3		17.5	26.3
125	12.1		11.0	16.4

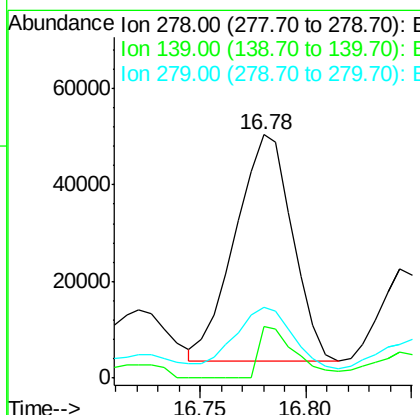
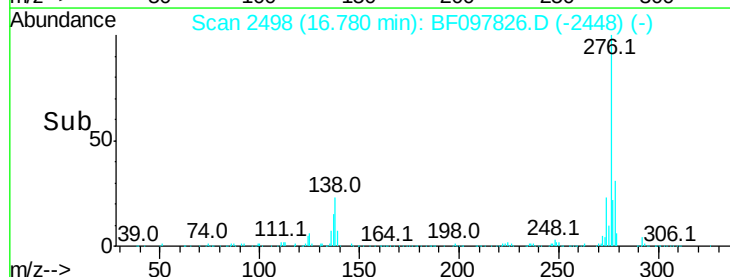
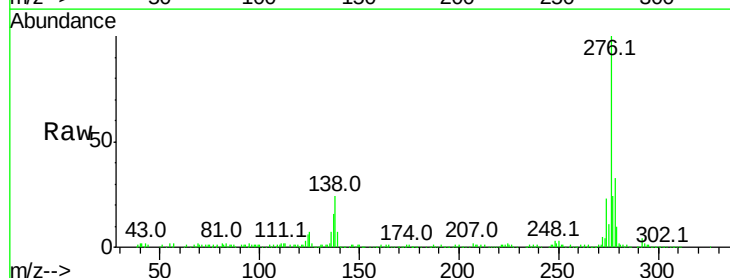
Manual Integrations
APPROVED

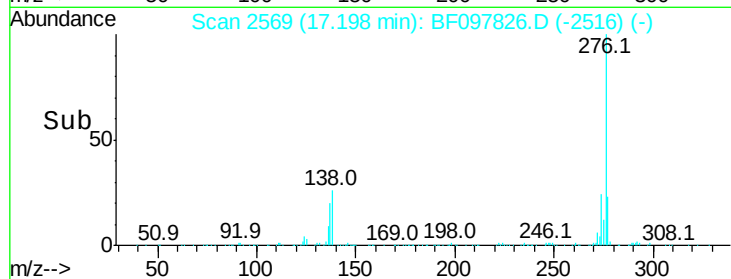
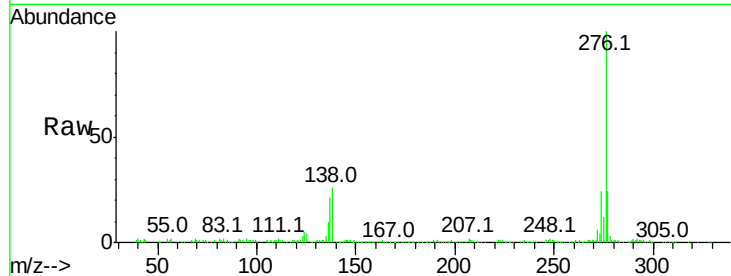
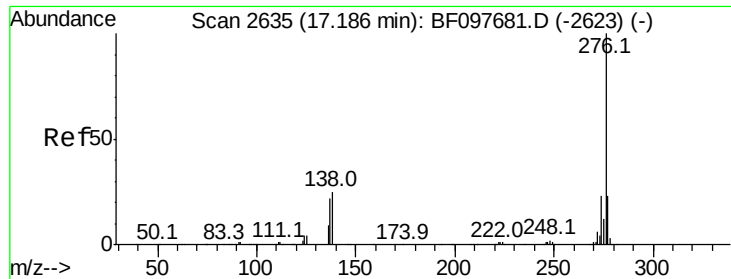
Sohil
8/18/2017 7:03:38 PM



#90
Dibenzo(a,h)anthracene
Concen: 11.328 ng
RT: 16.78 min Scan# 2498
Delta R.T. -0.01 min
Lab File: BF097826.D
Acq: 18 Aug 2017 10:42

Tgt Ion	Ratio	Resp	Lower	Upper
278	100	87926		
139	21.2		16.6	24.8
279	28.9		19.3	28.9





#91

Benzo(a,h,i)perylene

Concen: 41.719 ng

RT: 17.20 min Scan# 2569

Delta R.T. 0.01 min

Lab File: BF097826.D

Acq: 18 Aug 2017 10:42

Instrument :

BNA_F

ClientSampleId :

E2-110-ESW

Tot Ion: 276 Resp: 337891

Ion Ratio Lower Upper

276 100

277 24.2 18.6 28.0

138 25.9 25.4 38.0

Manual Integrations

APPROVED

Sohil

8/18/2017 7:03:38 PM

