

Data Path : U:\HPCHEM1\BNA F\DATA\BF082117\
 Data File : BF097918.D
 Acq On : 21 Aug 2017 21:15
 Operator : SJ/JU
 Sample : I4820-01
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 E2-110-ESW

Manual Integrations
 APPROVED

Sohil
 8/22/2017 5:44:39 PM

Quant Time: Aug 22 11:31:08 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF081517.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Aug 21 15:59:04 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.75	152	115310	20.00	ng	0.00
21) Naphthalene-d8	8.03	136	436938	20.00	ng	0.00
38) Acenaphthene-d10	9.78	164	175748	20.00	ng	0.00
63) Phenanthrene-d10	11.26	188	287681	20.00	ng	0.00
75) Chrysene-d12	13.90	240	222328	20.00	ng	0.00
86) Perylene-d12	15.32	264	160156	20.00	ng	0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.36	112	940349	124.04	ng	0.01
7) Phenol-d6	6.39	99	1274966	123.78	ng	0.00
23) Nitrobenzene-d5	7.32	82	758533	94.31	ng	0.00
41) 2,4,6-Tribromophenol	10.57	330	178843	117.28	ng	0.00
44) 2-Fluorobiphenyl	9.11	172	971535	81.22	ng	0.00
78) Terphenyl-d14	12.85	244	580511	54.45	ng	0.00
Target Compounds						
31) Naphthalene	8.05	128	63369	2.794	ng	Qvalue 100
48) Acenaphthylene	9.65	152	38772	2.085	ng	97
49) Dimethylphthalate	9.50	163	172363	13.417	ng	99
51) Acenaphthene	9.82	154	47747	4.071	ng	99
70) Phenanthrene	11.29	178	345026	22.507	ng	99
71) Anthracene	11.34	178	123032	7.913	ng	97
72) Carbazole	11.49	167	45540	3.086	ng	99
74) Fluoranthene	12.48	202	703904	43.992	ng	98
77) Pyrene	12.70	202	782780	43.048	ng	98
80) Benzo(a)anthracene	13.89	228	537002	40.300	ng	94
82) Chrysene	13.93	228	447492	33.759	ng	97
83) Bis(2-ethylhexyl)phthalate	13.89	149	16757	2.169	ng	# 99
85) Indeno(1,2,3-cd)pyrene	16.71	276	353847m	36.288	ng	
87) Benzo(b)fluoranthene	14.92	252	712890m	70.617	ng	
88) Benzo(k)fluoranthene	14.94	252	204435m	21.555	ng	
89) Benzo(a)pyrene	15.27	252	571189	63.913	ng	98
90) Dibenzo(a,h)anthracene	16.72	278	87175m	11.982	ng	
91) Benzo(g,h,i)perylene	17.13	276	330279	43.506	ng	94

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

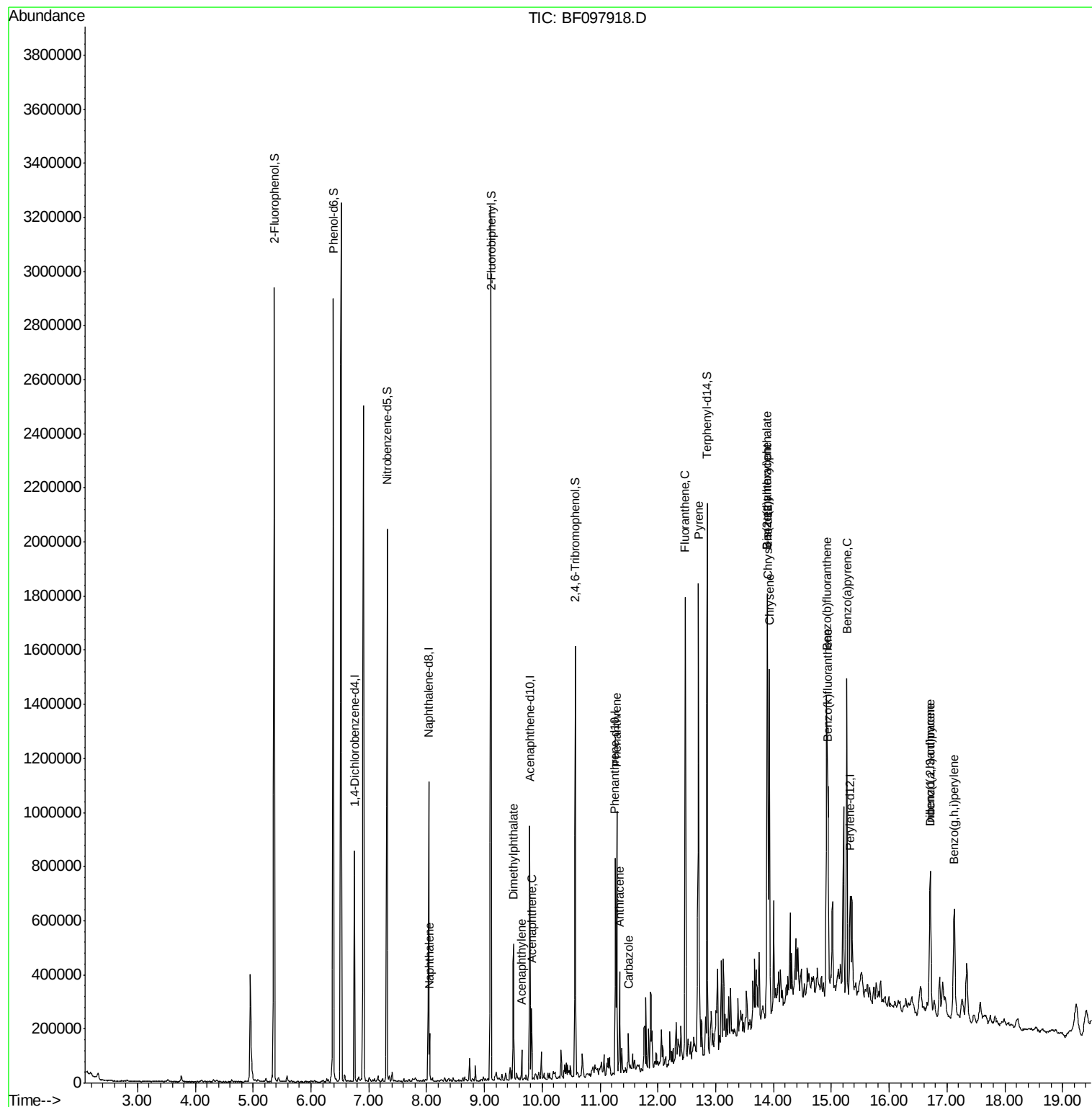
Data Path : U:\HPCHEM1\BNA F\DATA\BF082117\
Data File : BF097918.D
Acq On : 21 Aug 2017 21:15
Operator : SJ/JU
Sample : I4820-01
Misc :
ALS Vial : 11 Sample Multiplier: 1

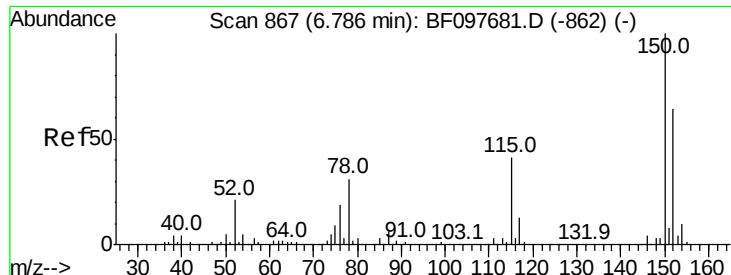
Instrument :
BNA_F
ClientSampled :
E2-110-ESW

Manual Integrations
APPROVED

Sohil
8/22/2017 5:44:39 PM

Quant Time: Aug 22 11:31:08 2017
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF081517.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Aug 21 15:59:04 2017
Response via : Initial Calibration





#1

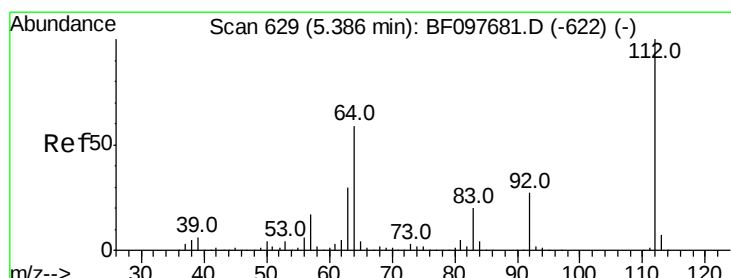
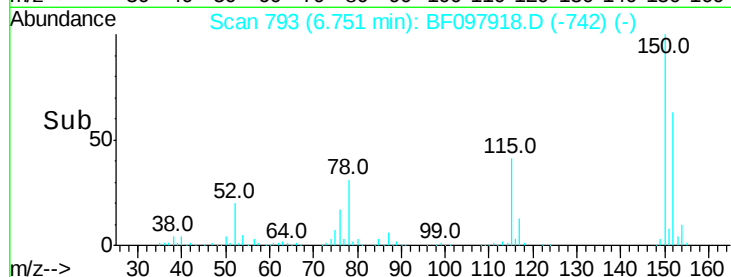
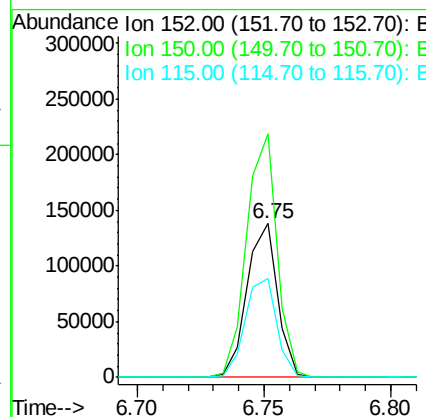
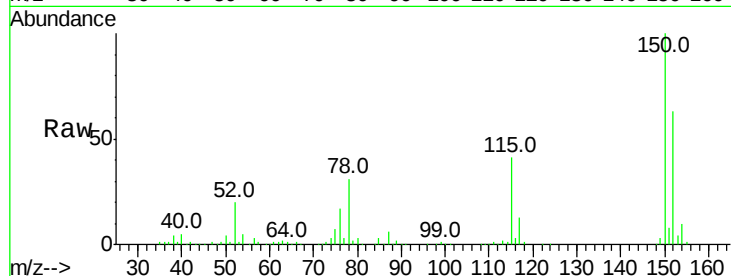
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.75 min Scan# 793
Delta R.T. 0.00 min
Lab File: BF097918.D
Acq: 21 Aug 2017 21:15

Instrument :
BNA_F
ClientSampleId :
E2-110-ESW

Tot Ion	Ratio	Lower	Upper
152	100		
150	158.2	126.2	189.2
115	64.1	52.2	78.2

Manual Integrations
APPROVED

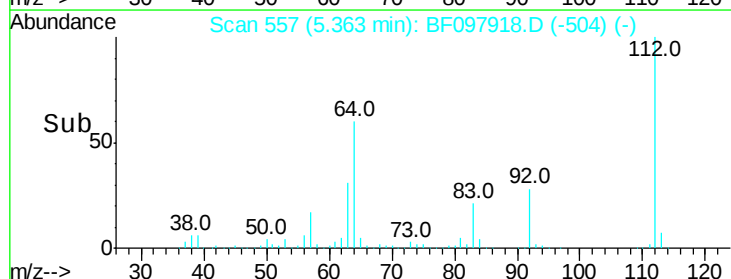
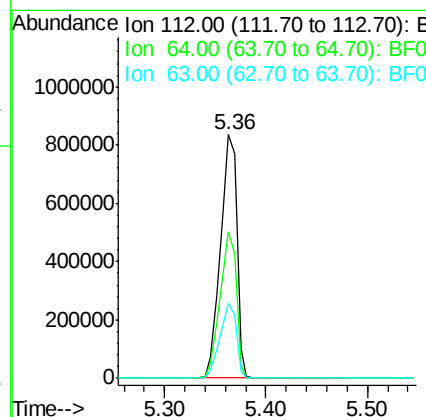
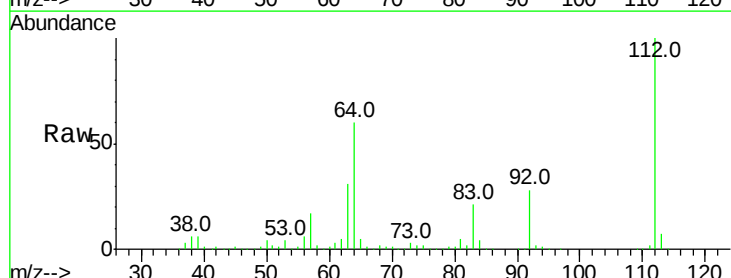
Sohil
8/22/2017 5:44:39 PM

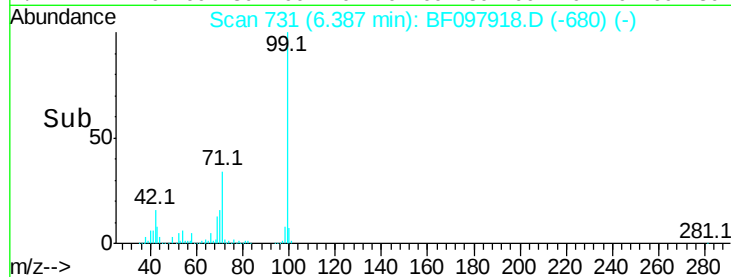
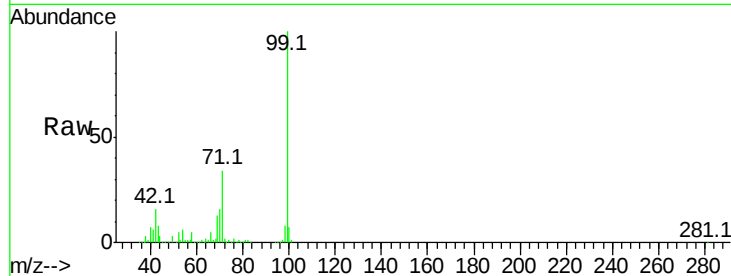
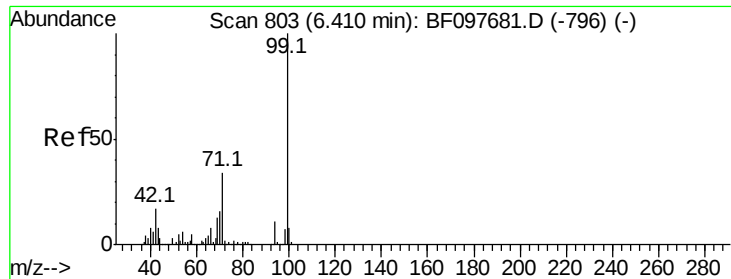


#5

2-Fluorophenol
Concen: 124.043 ng
RT: 5.36 min Scan# 557
Delta R.T. 0.01 min
Lab File: BF097918.D
Acq: 21 Aug 2017 21:15

Tgt Ion	Ratio	Lower	Upper
112	100		
64	60.2	46.0	69.0
63	30.8	23.4	35.0





#7

Phenol-d6

Concen: 123.781 ng

RT: 6.39 min Scan# 731

Delta R.T. 0.00 min

Lab File: BF097918.D

Acq: 21 Aug 2017 21:15

Tot Ion	99	Resp	1274966
Ion	Ratio	Lower	Upper
99	100		
42	16.0	13.5	20.3
71	33.6	24.5	36.7

Instrument :

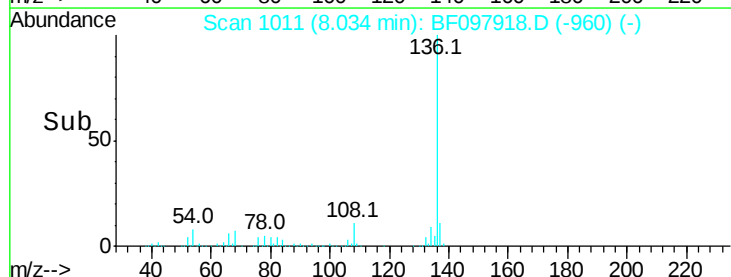
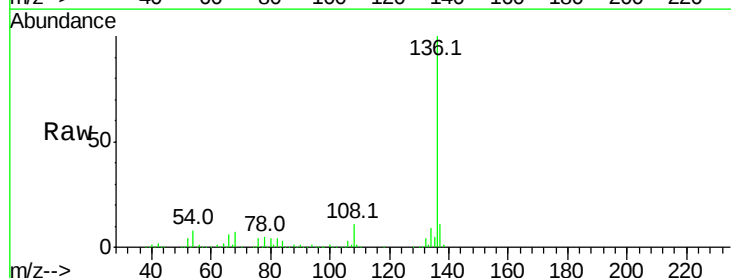
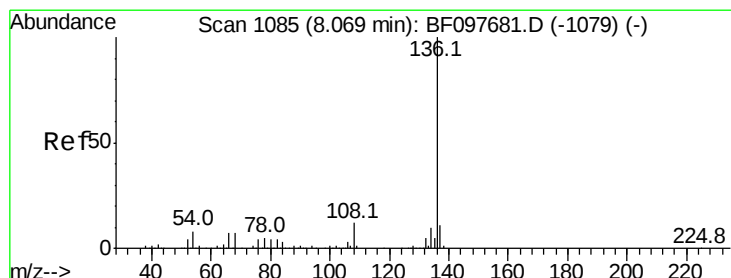
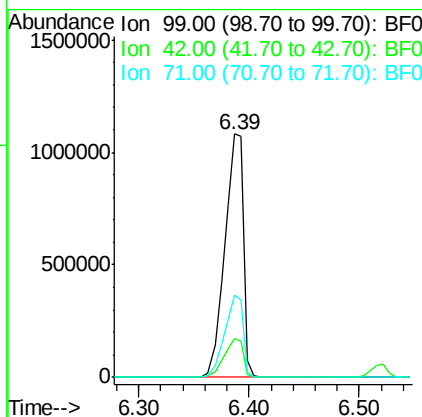
BNA_F

ClientSampled :

E2-110-ESW

Manual Integrations
APPROVED

Sohil
8/22/2017 5:44:39 PM



#21

Naphthalene-d8

Concen: 20.000 ng

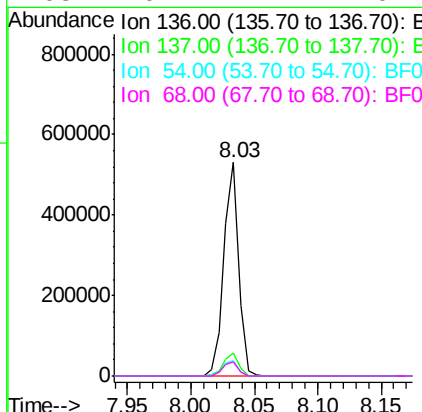
RT: 8.03 min Scan# 1011

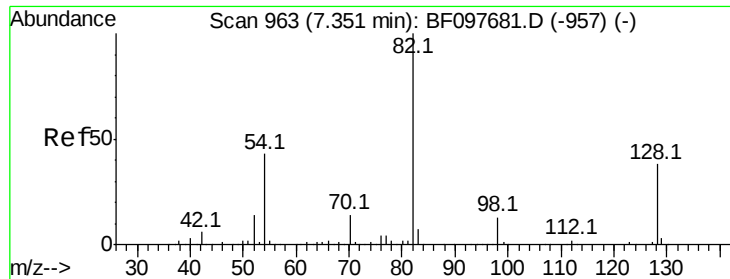
Delta R.T. 0.00 min

Lab File: BF097918.D

Acq: 21 Aug 2017 21:15

Tgt Ion	136	Resp	436938
Ion	Ratio	Lower	Upper
136	100		
137	10.7	8.5	12.7
54	7.5	4.9	7.3#
68	6.7	4.1	6.1#





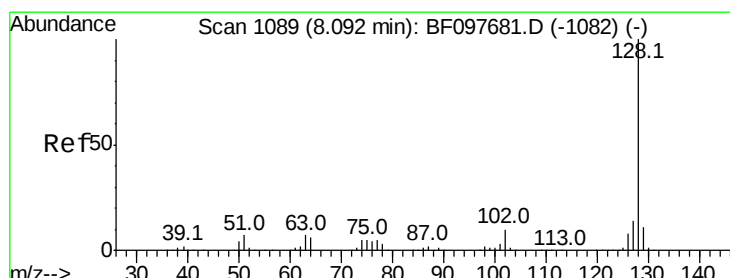
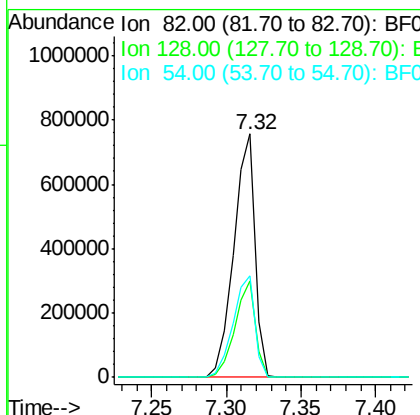
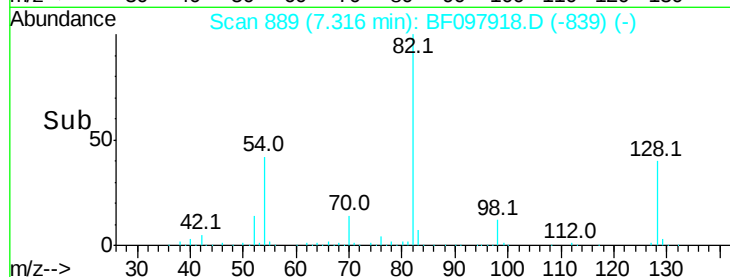
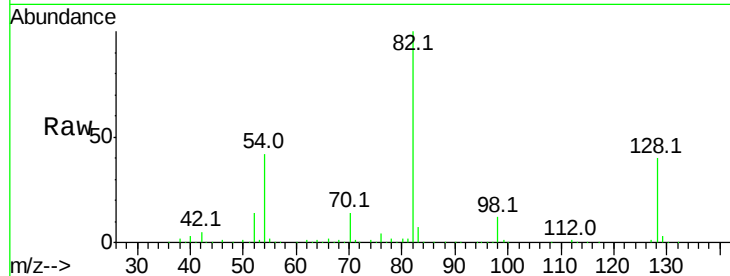
#23
 Nitrobenzene-d5
 Concen: 94.309 ng
 RT: 7.32 min Scan# 889
 Delta R.T. -0.01 min
 Lab File: BF097918.D
 Acq: 21 Aug 2017 21:15

Instrument :
 BNA_F
 ClientSampleId :
 E2-110-ESW

Tot Ion	Ratio	Lower	Upper
82	100		
128	39.7	34.0	51.0
54	41.7	42.2	63.2#

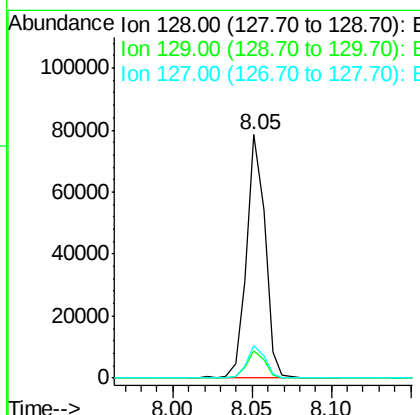
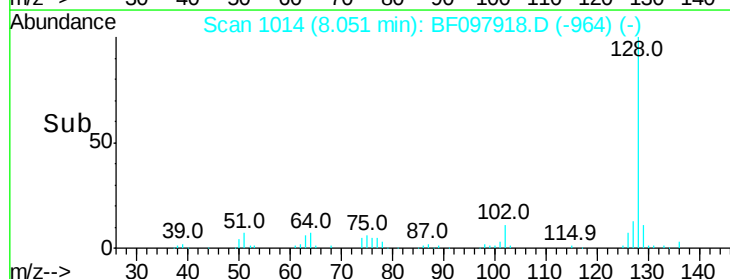
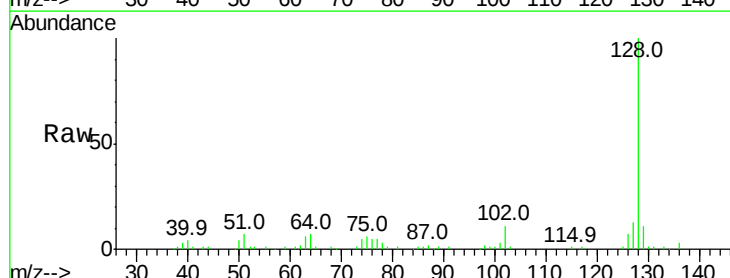
Manual Integrations
 APPROVED

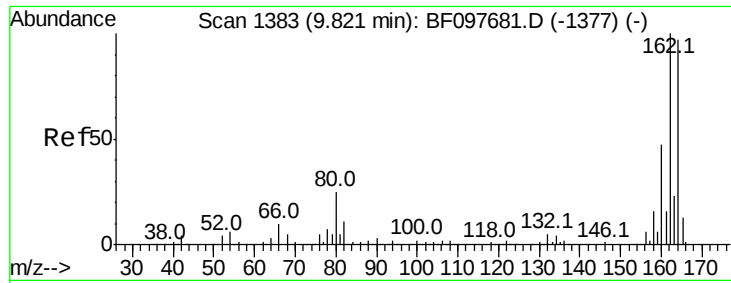
Sohil
 8/22/2017 5:44:39 PM



#31
 Naphthalene
 Concen: 2.794 ng
 RT: 8.05 min Scan# 1014
 Delta R.T. -0.01 min
 Lab File: BF097918.D
 Acq: 21 Aug 2017 21:15

Tgt Ion	Ratio	Lower	Upper
128	100		
129	11.0	9.0	13.6
127	13.4	10.8	16.2





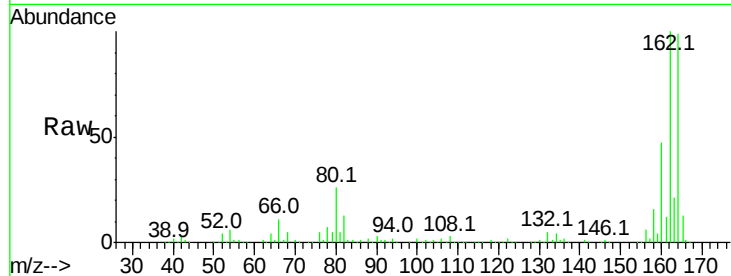
#38
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.78 min Scan# 1308
Delta R.T. -0.01 min
Lab File: BF097918.D
Acq: 21 Aug 2017 21:15

Instrument :
BNA_F
ClientSampleId :
E2-110-ESW

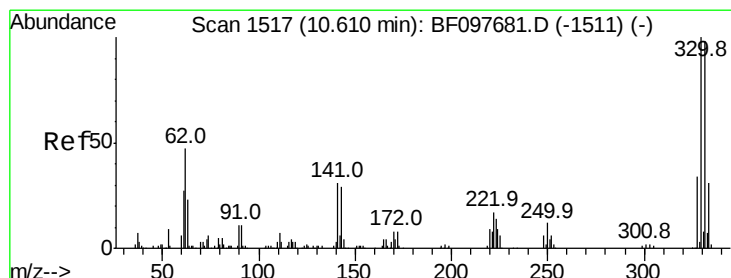
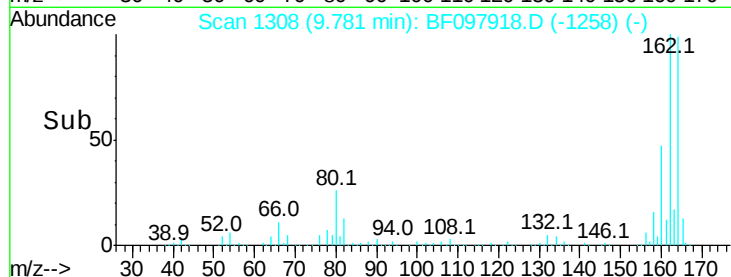
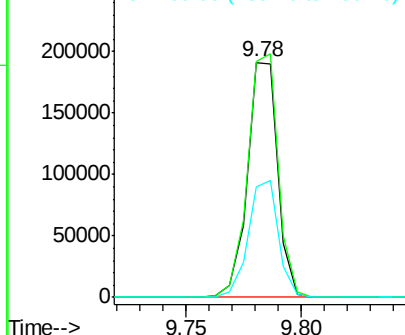
Tot Ion	Ratio	Resp	Lower	Upper
164	100	175748		
162	100.7	82.6	123.8	
160	47.1	36.2	54.2	

Manual Integrations
APPROVED

Sohil
8/22/2017 5:44:39 PM

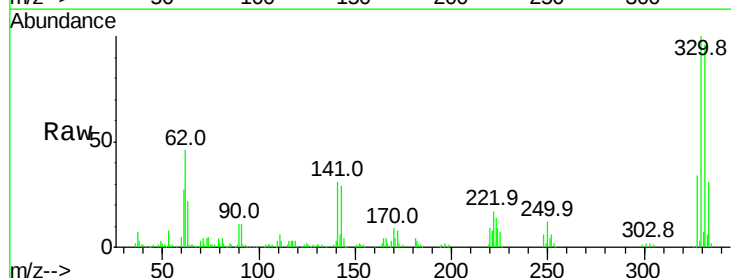


Abundance Ion 164.00 (163.70 to 164.70): E
Ion 162.00 (161.70 to 162.70): E
Ion 160.00 (159.70 to 160.70): E

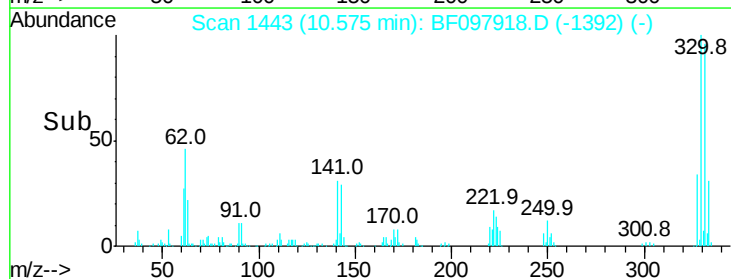
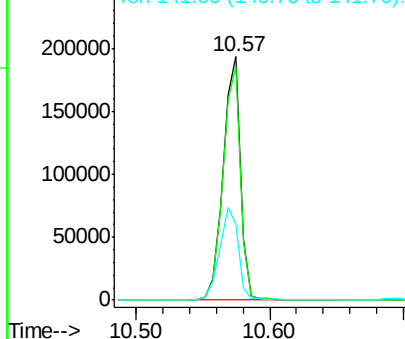


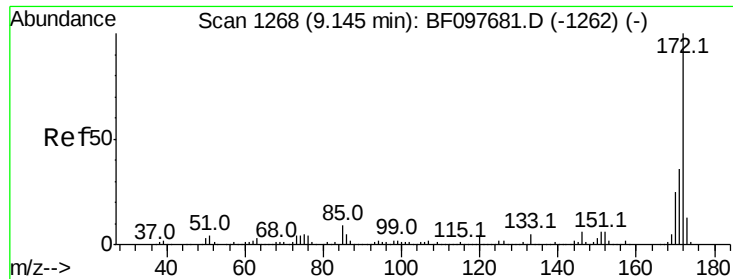
#41
2,4,6-Tribromophenol
Concen: 117.282 ng
RT: 10.57 min Scan# 1443
Delta R.T. 0.00 min
Lab File: BF097918.D
Acq: 21 Aug 2017 21:15

Tgt Ion	Ratio	Resp	Lower	Upper
330	100	178843		
332	96.6	76.6	115.0	
141	40.2	31.4	47.2	



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: 81.218 ng

RT: 9.11 min Scan# 1194

Delta R.T. 0.00 min

Lab File: BF097918.D

Acq: 21 Aug 2017 21:15

Instrument :

BNA_F

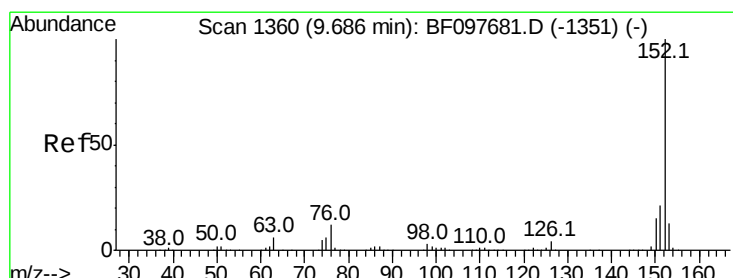
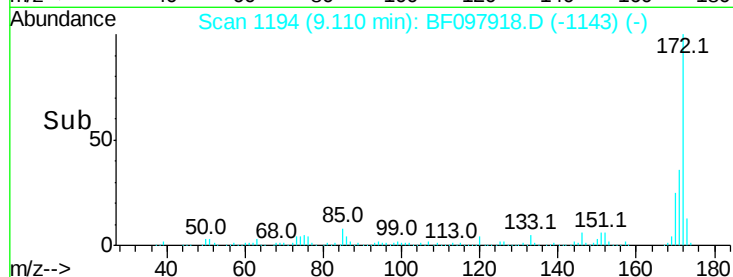
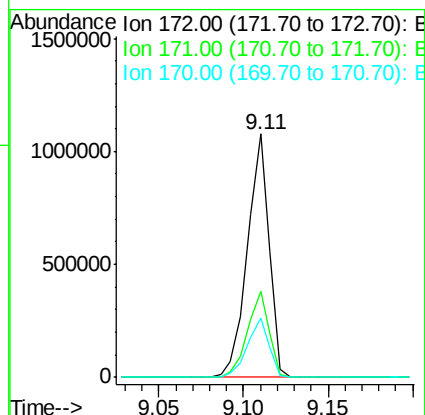
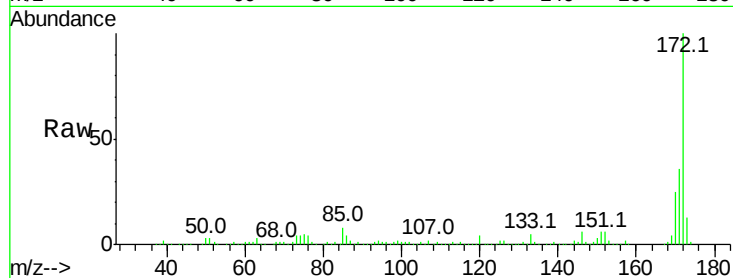
ClientSampled :

E2-110-ESW

Tot Ion:	172	Resp:	971535
Ion Ratio	Lower	Upper	
172	100		
171	35.5	29.6	44.4
170	24.5	19.8	29.8

Manual Integrations
APPROVED

Sohil
8/22/2017 5:44:39 PM



#48

Acenaphthylene

Concen: 2.085 ng

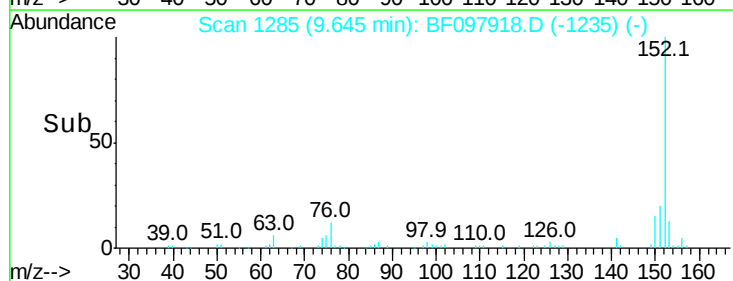
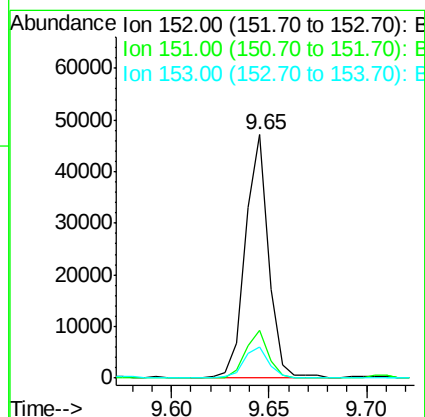
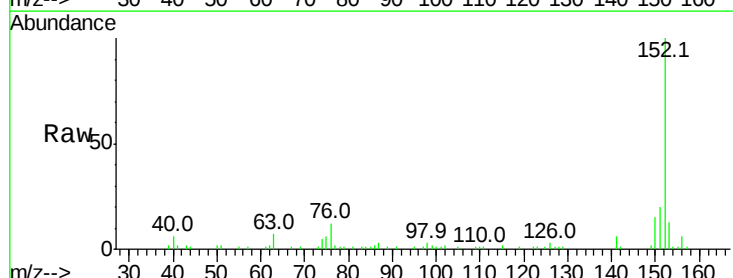
RT: 9.65 min Scan# 1285

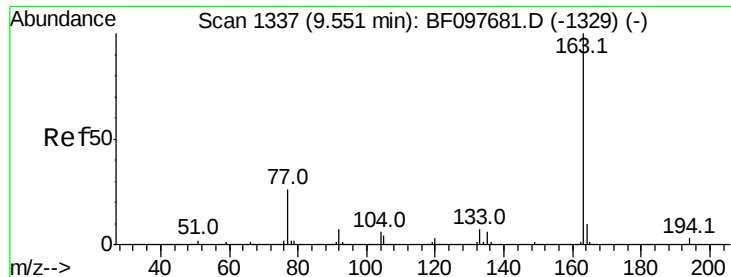
Delta R.T. -0.01 min

Lab File: BF097918.D

Acq: 21 Aug 2017 21:15

Tgt Ion:	152	Resp:	38772
Ion Ratio	Lower	Upper	
152	100		
151	19.7	16.8	25.2
153	12.6	10.8	16.2





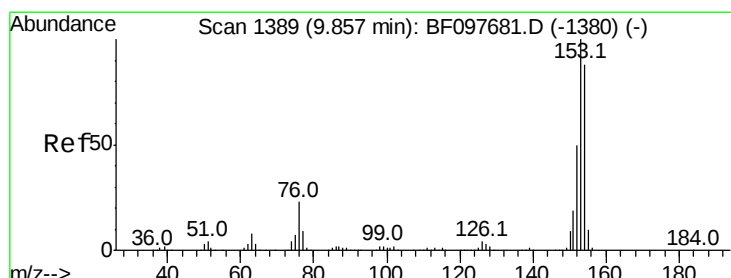
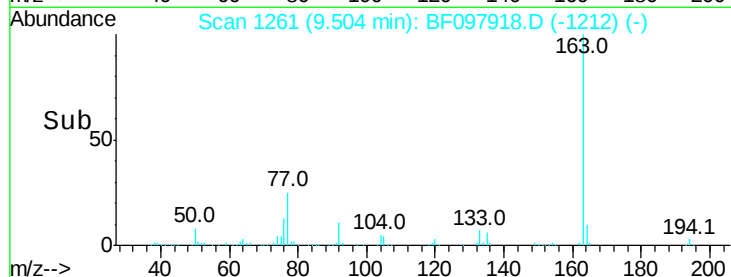
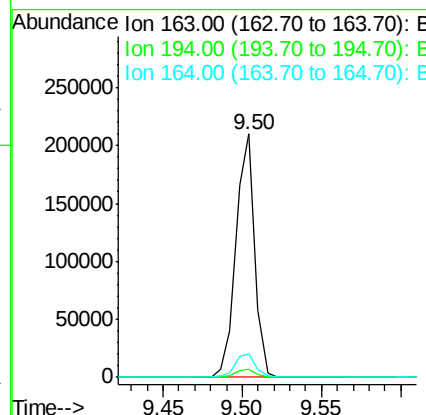
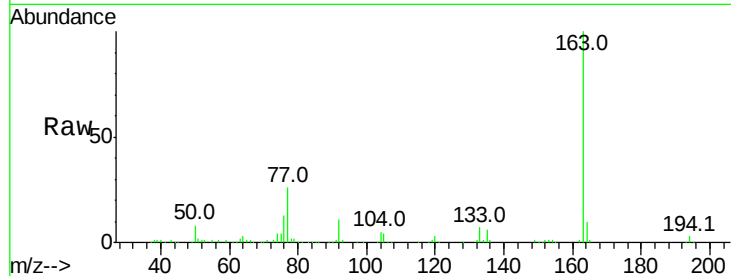
#49
Dimethylphthalate
Concen: 13.417 ng
RT: 9.50 min Scan# 1261
Delta R.T. -0.01 min
Lab File: BF097918.D
Acq: 21 Aug 2017 21:15

Instrument :
BNA_F
ClientSampleId :
E2-110-ESW

Tot Ion	Ratio	Resp	Lower	Upper
163	100	172363		
194	3.4	2.6	4.0	
164	9.8	8.4	12.6	

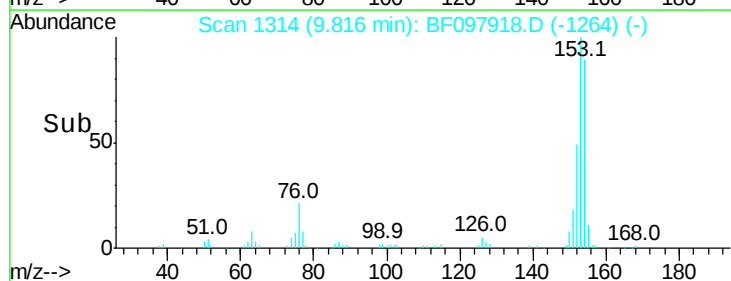
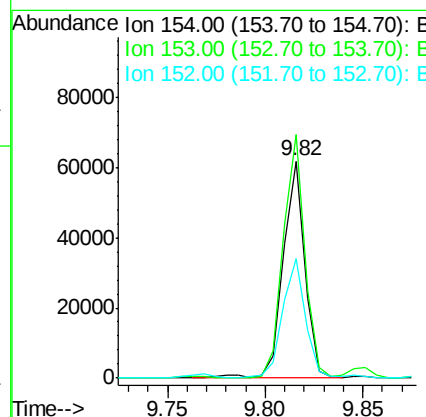
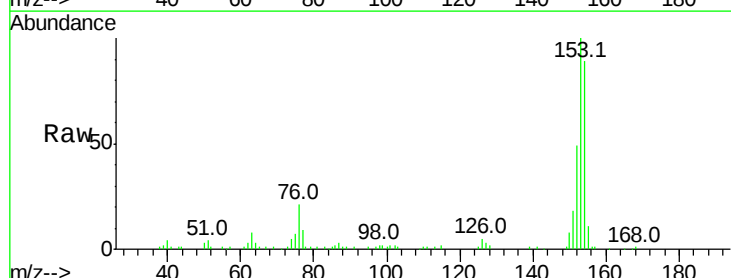
Manual Integrations
APPROVED

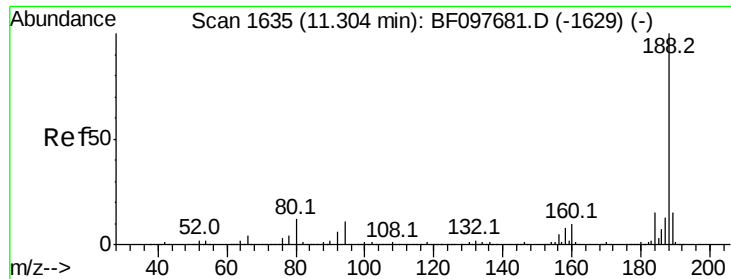
Sohil
8/22/2017 5:44:39 PM



#51
Acenaphthene
Concen: 4.071 ng
RT: 9.82 min Scan# 1314
Delta R.T. -0.01 min
Lab File: BF097918.D
Acq: 21 Aug 2017 21:15

Tgt Ion	Ratio	Resp	Lower	Upper
154	100	47747		
153	112.0	90.5	135.7	
152	55.1	43.6	65.4	





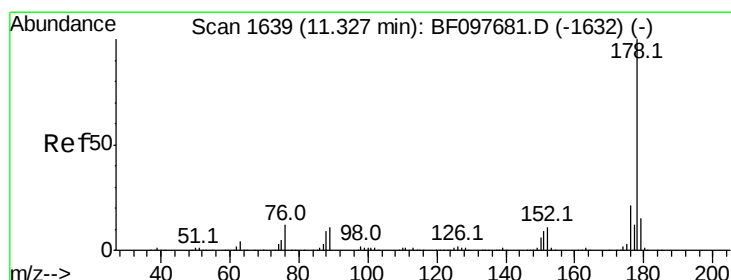
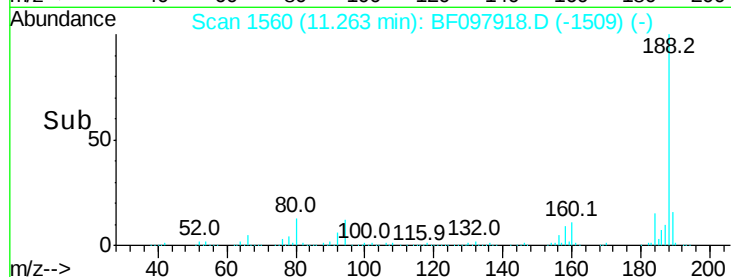
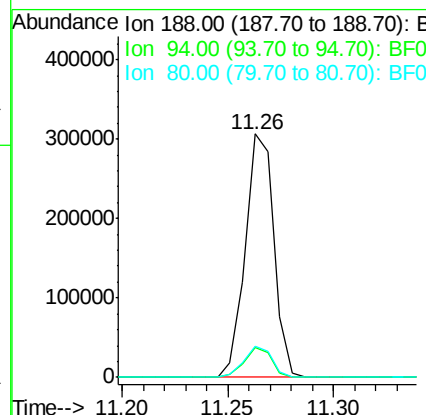
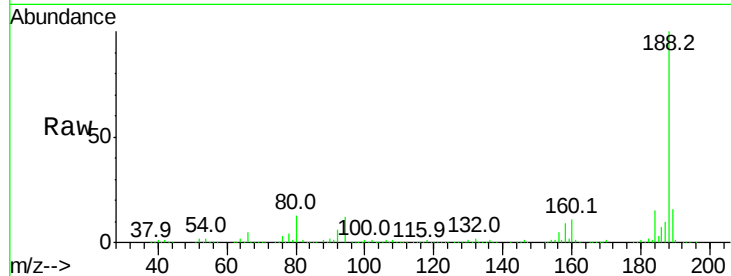
#63
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.26 min Scan# 1560
Delta R.T. 0.00 min
Lab File: BF097918.D
Acq: 21 Aug 2017 21:15

Instrument :
BNA_F
ClientSampleId :
E2-110-ESW

Tot Ion	Ratio	Resp	Lower	Upper
188	100	287681		
94	12.2		9.4	14.2
80	13.0		10.2	15.2

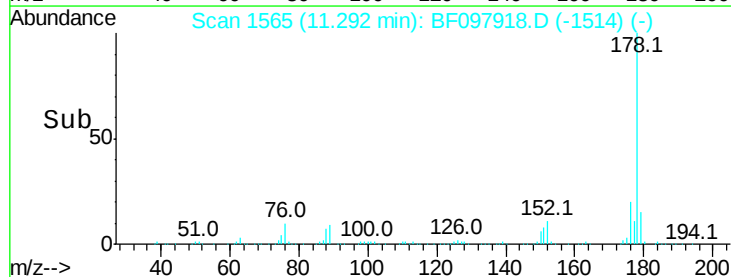
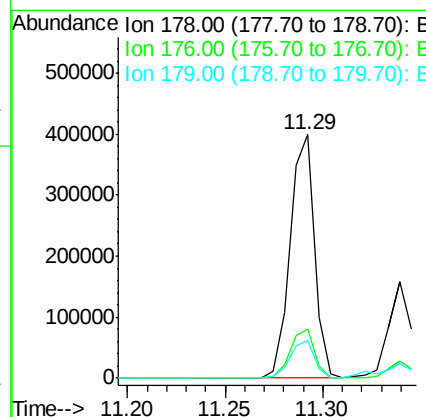
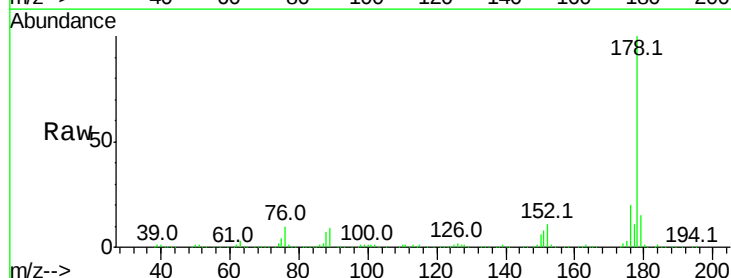
Manual Integrations
APPROVED

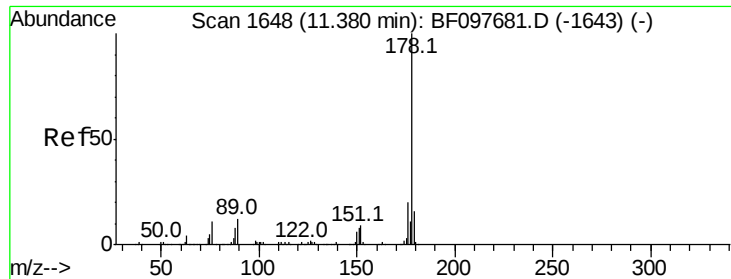
Sohil
8/22/2017 5:44:39 PM



#70
Phenanthrene
Concen: 22.507 ng
RT: 11.29 min Scan# 1565
Delta R.T. 0.00 min
Lab File: BF097918.D
Acq: 21 Aug 2017 21:15

Tgt Ion	Ratio	Resp	Lower	Upper
178	100	345026		
176	20.0		16.2	24.4
179	15.3		12.6	19.0





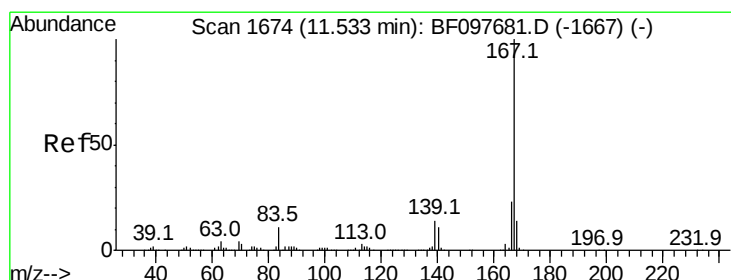
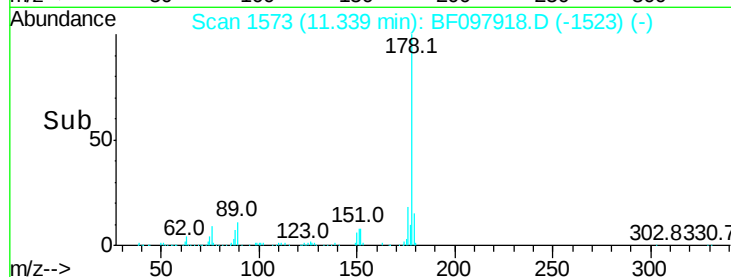
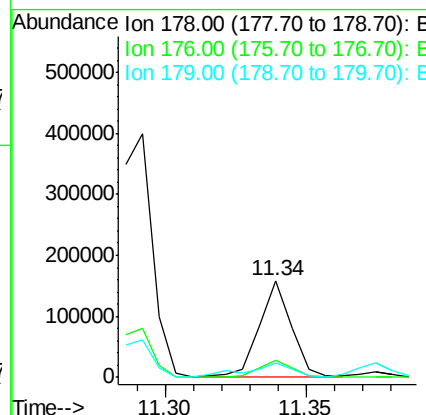
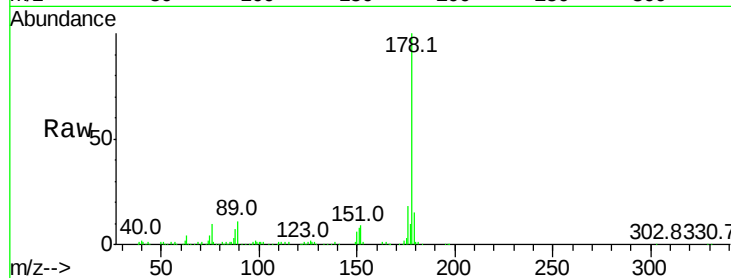
#71
 Anthracene
 Concen: 7.913 ng
 RT: 11.34 min Scan# 1573
 Delta R.T. -0.01 min
 Lab File: BF097918.D
 Acq: 21 Aug 2017 21:15

Instrument :
 BNA_F
 ClientSampled :
 E2-110-ESW

Tot Ion	Ratio	Lower	Upper
178	100		
176	18.1	15.8	23.8
179	15.0	12.7	19.1

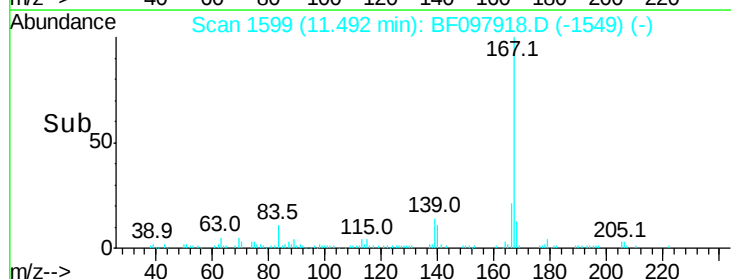
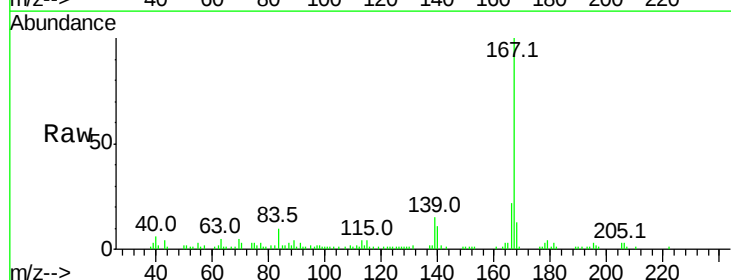
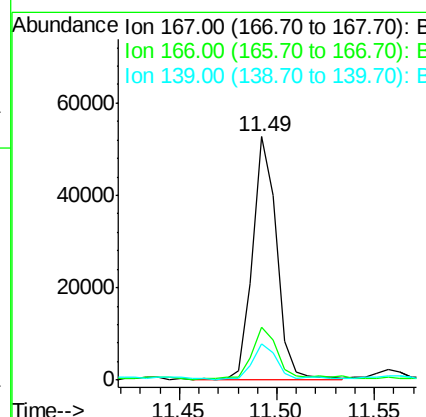
Manual Integrations
 APPROVED

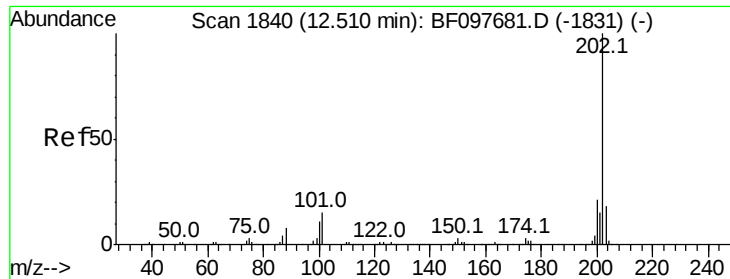
Sohil
 8/22/2017 5:44:39 PM



#72
 Carbazole
 Concen: 3.086 ng
 RT: 11.49 min Scan# 1599
 Delta R.T. -0.01 min
 Lab File: BF097918.D
 Acq: 21 Aug 2017 21:15

Tgt Ion	Ratio	Lower	Upper
167	100		
166	21.7	18.1	27.1
139	15.0	11.7	17.5





#74

Fluoranthene

Concen: 43.992 ng

RT: 12.48 min Scan# 1767

Delta R.T. 0.01 min

Lab File: BF097918.D

Acq: 21 Aug 2017 21:15

Instrument :

BNA_F

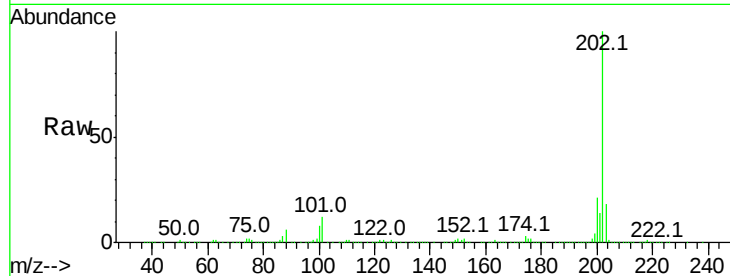
ClientSampled :

E2-110-ESW

Tot Ion	Ratio	Resp	Lower	Upper
202	100			
101	11.8	0.0	33.2	
203	17.6	0.0	38.1	

Manual Integrations
APPROVED

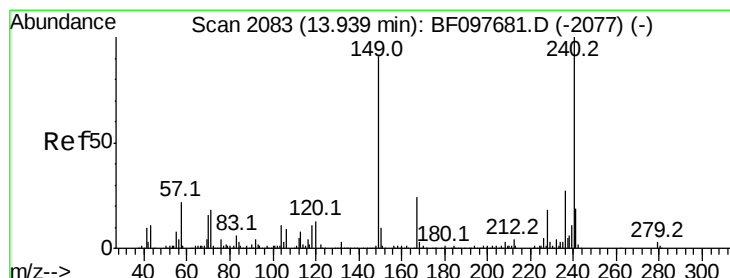
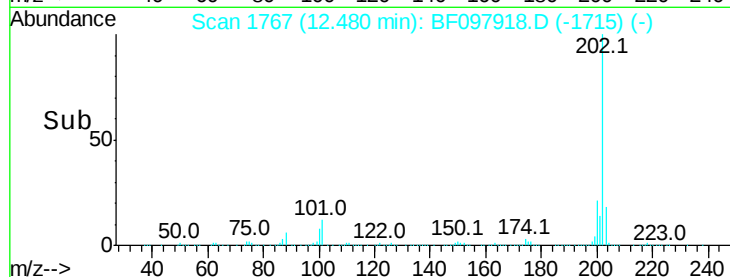
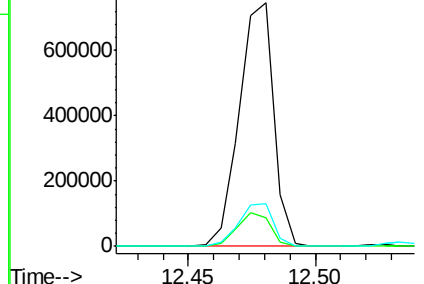
Sohil
8/22/2017 5:44:39 PM



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E



#75

Chrysene-d12

Concen: 20.000 ng

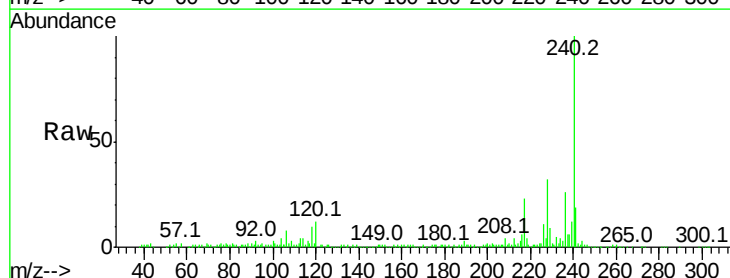
RT: 13.90 min Scan# 2009

Delta R.T. 0.01 min

Lab File: BF097918.D

Acq: 21 Aug 2017 21:15

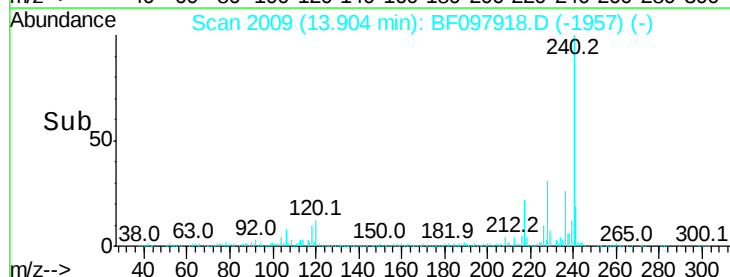
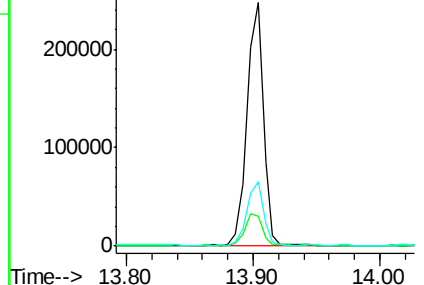
Tgt Ion	Ratio	Resp	Lower	Upper
240	100			
120	12.4	5.8	8.8#	
236	26.4	20.5	30.7	

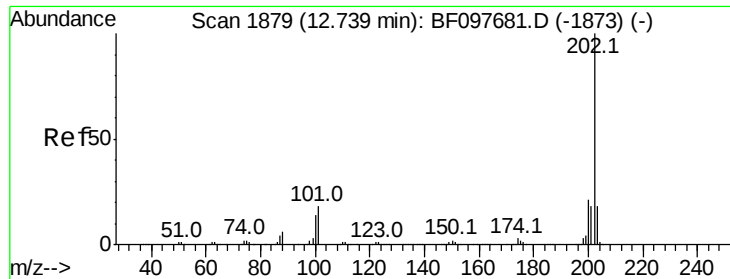


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





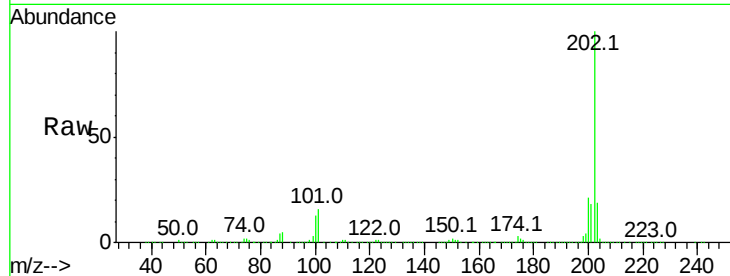
#77
Pvrene
Concen: 43.048 ng
RT: 12.70 min Scan# 1805
Delta R.T. 0.00 min
Lab File: BF097918.D
Acq: 21 Aug 2017 21:15

Instrument :
BNA_F
ClientSampleId :
E2-110-ESW

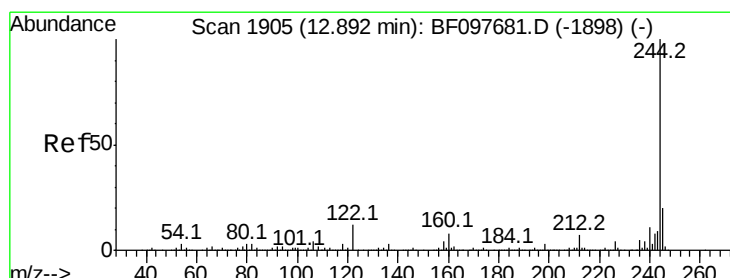
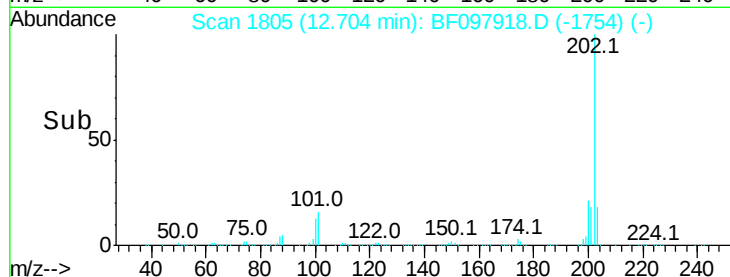
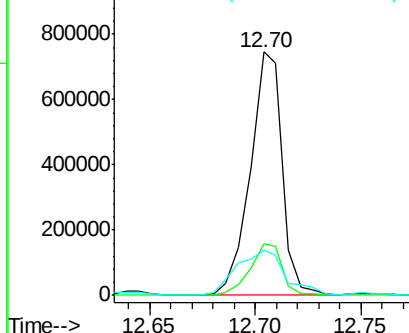
Tot Ion	Ratio	Resp Lower	Upper
202	100		
200	21.2	17.6	26.4
203	18.6	14.4	21.6

Manual Integrations
APPROVED

Sohil
8/22/2017 5:44:39 PM



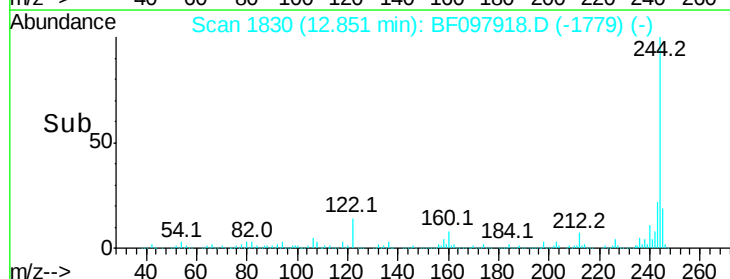
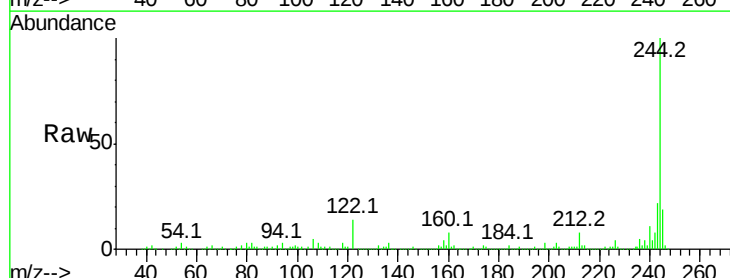
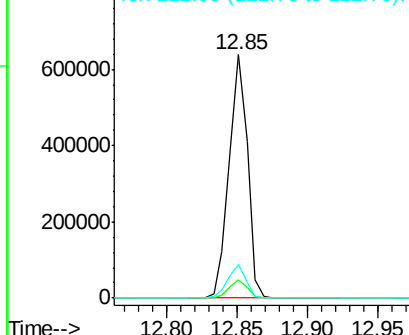
Abundance Ion 202.00 (201.70 to 202.70): E
Ion 200.00 (199.70 to 200.70): E
Ion 203.00 (202.70 to 203.70): E

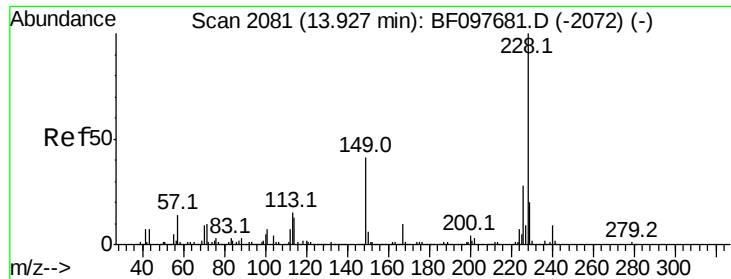


#78
Terphenyl-d14
Concen: 54.449 ng
RT: 12.85 min Scan# 1830
Delta R.T. 0.00 min
Lab File: BF097918.D
Acq: 21 Aug 2017 21:15

Tgt Ion	Ratio	Resp Lower	Upper
244	100		
212	7.5	6.0	9.0
122	13.6	10.3	15.5

Abundance Ion 244.00 (243.70 to 244.70): E
Ion 212.00 (211.70 to 212.70): E
Ion 122.00 (121.70 to 122.70): E





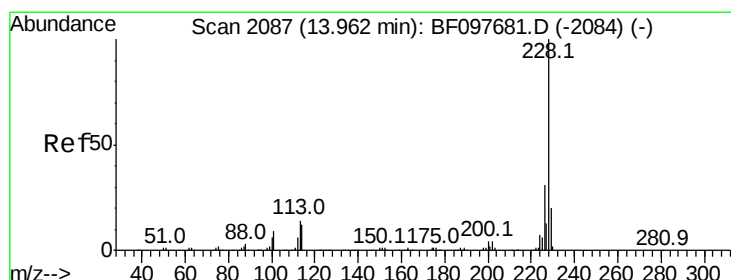
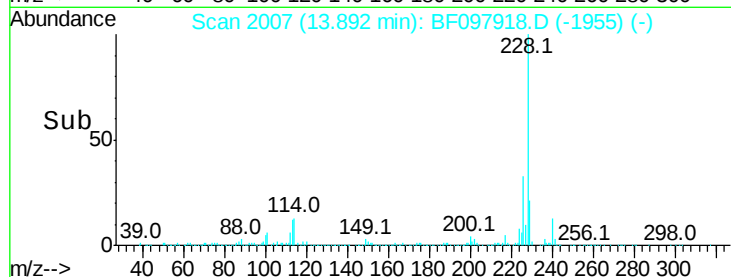
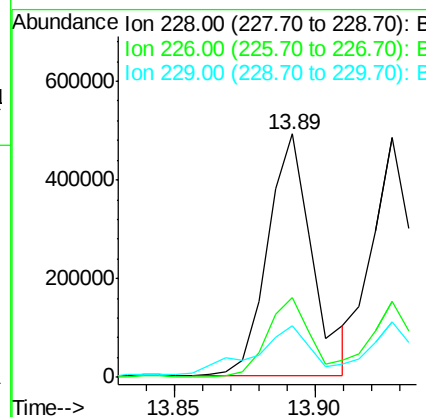
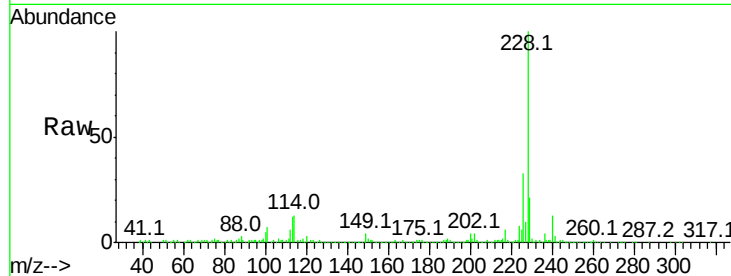
#80
Benzo(a)anthracene
Concen: 40.300 ng
RT: 13.89 min Scan# 2007
Delta R.T. 0.01 min
Lab File: BF097918.D
Acq: 21 Aug 2017 21:15

Instrument :
BNA_F
ClientSampleId :
E2-110-ESW

Tot Ion	Ratio	Lower	Upper
228	100		
226	32.7	22.6	33.8
229	21.2	16.3	24.5

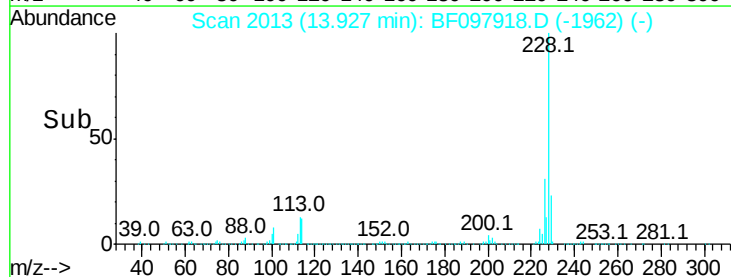
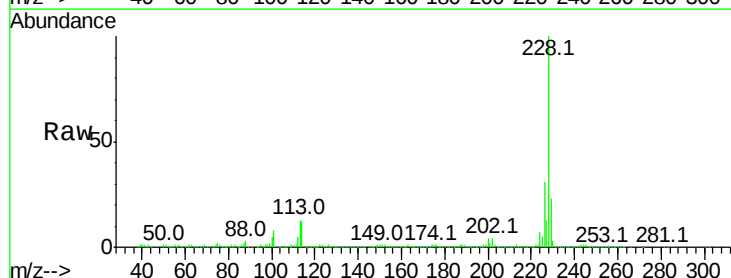
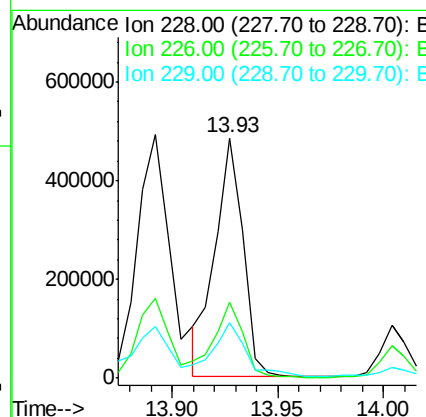
Manual Integrations
APPROVED

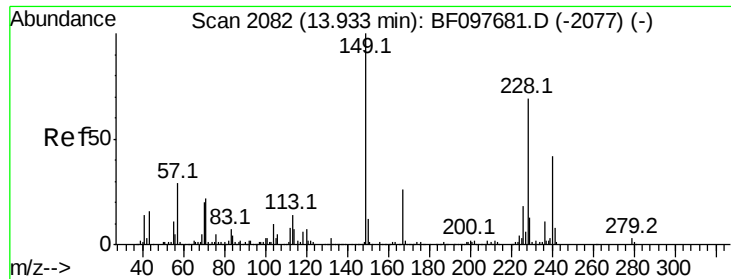
Sohil
8/22/2017 5:44:39 PM



#82
Chrysene
Concen: 33.759 ng
RT: 13.93 min Scan# 2013
Delta R.T. 0.00 min
Lab File: BF097918.D
Acq: 21 Aug 2017 21:15

Tgt Ion	Ratio	Lower	Upper
228	100		
226	31.4	24.9	37.3
229	23.2	15.8	23.6





#83

Bis(2-ethylhexyl)phthalate

Concen: 2.169 ng

RT: 13.89 min Scan# 2007

Delta R.T. 0.01 min

Lab File: BF097918.D

Acq: 21 Aug 2017 21:15

Instrument :

BNA_F

ClientSampleId :

E2-110-ESW

Tot Ion:149 Resp: 16757

Ion Ratio Lower Upper

149 100

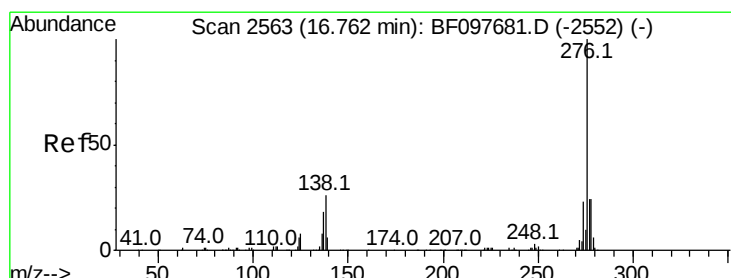
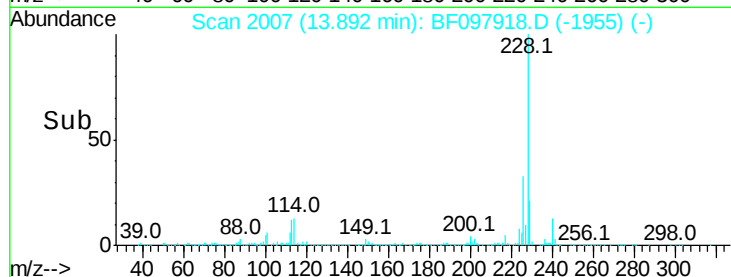
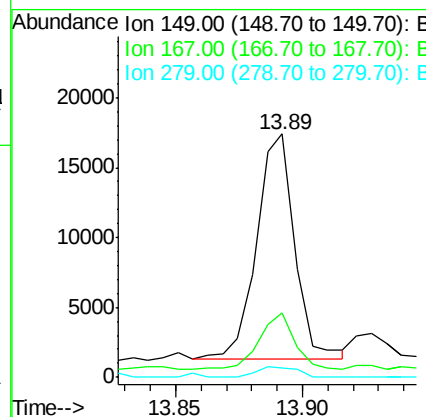
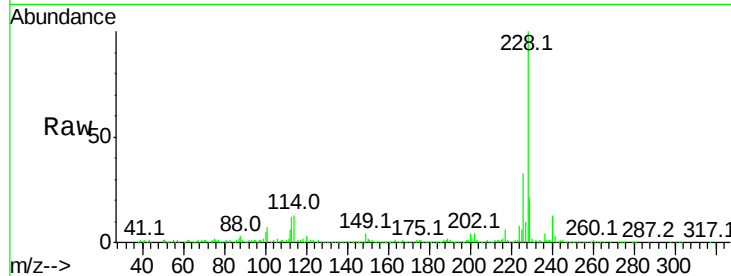
167 26.4 21.0 31.4

279 4.0 1.9 2.9#

Manual Integrations
APPROVED

Sohil

8/22/2017 5:44:39 PM



#85

Indeno(1,2,3-cd)pyrene

Concen: 36.288 ng m

RT: 16.71 min Scan# 2486

Delta R.T. 0.02 min

Lab File: BF097918.D

Acq: 21 Aug 2017 21:15

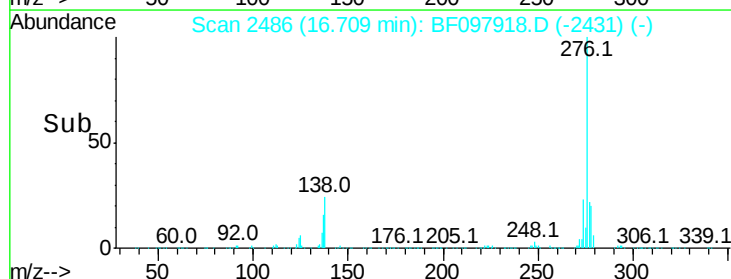
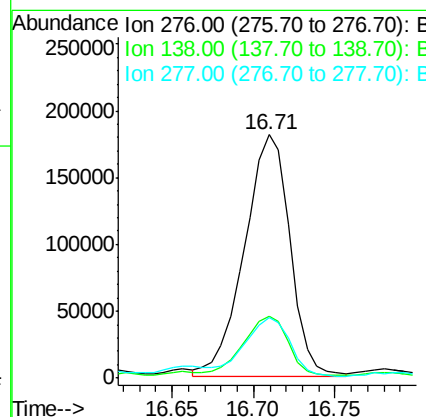
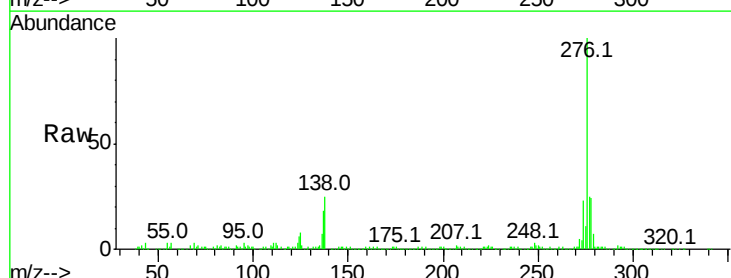
Tgt Ion:276 Resp: 353847

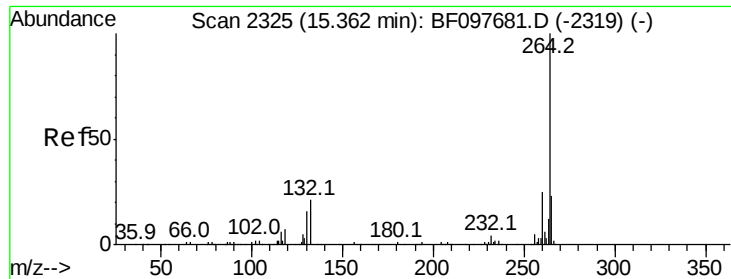
Ion Ratio Lower Upper

276 100

138 5.3 27.8 41.6#

277 5.2 20.2 30.4#





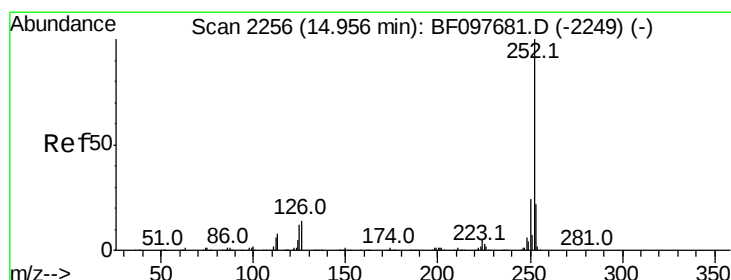
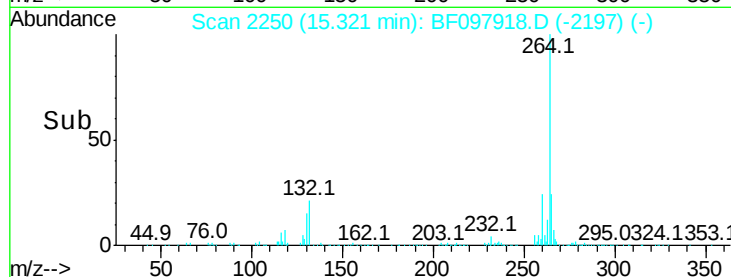
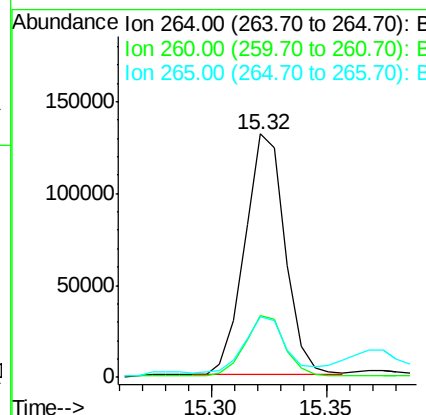
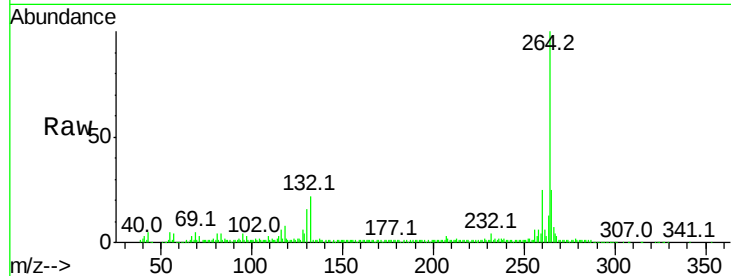
#86
Pervlene-d12
Concen: 20.000 ng
RT: 15.32 min Scan# 2250
Delta R.T. 0.01 min
Lab File: BF097918.D
Acq: 21 Aug 2017 21:15

Instrument :
BNA_F
ClientSampleId :
E2-110-ESW

Tot Ion	Ratio	Lower	Upper
264	100		
260	25.3	19.5	29.3
265	24.9	17.2	25.8

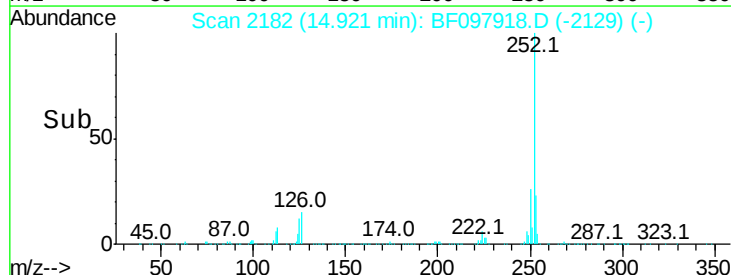
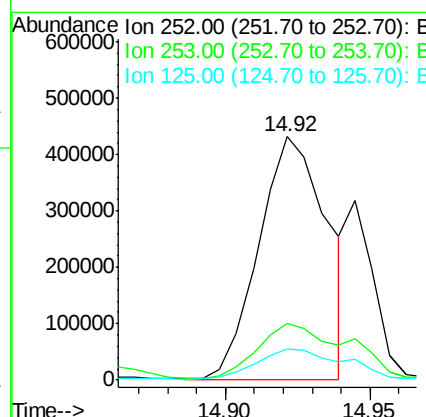
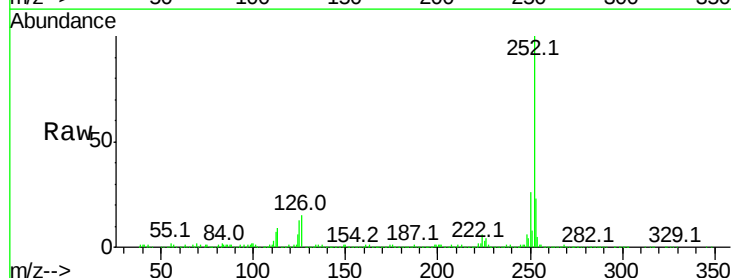
Manual Integrations
APPROVED

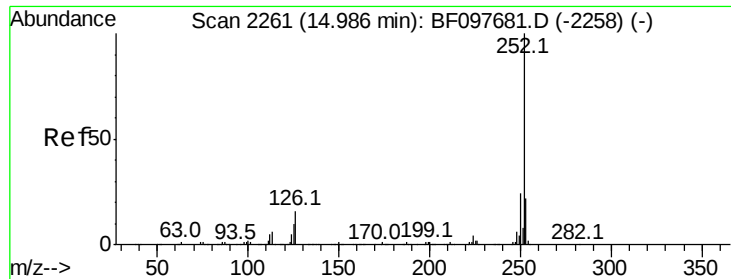
Sohil
8/22/2017 5:44:39 PM



#87
Benzo(b)fluoranthene
Concen: 70.617 ng m
RT: 14.92 min Scan# 2182
Delta R.T. 0.01 min
Lab File: BF097918.D
Acq: 21 Aug 2017 21:15

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.3	18.1	27.1
125	12.5	9.8	14.8





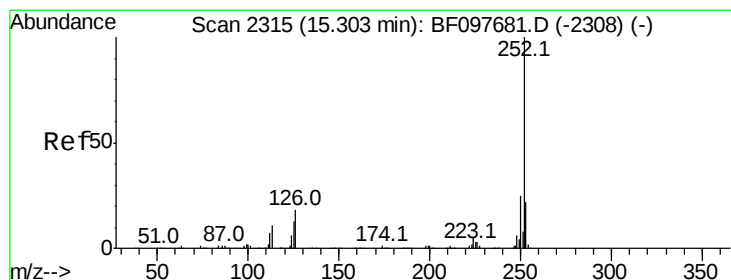
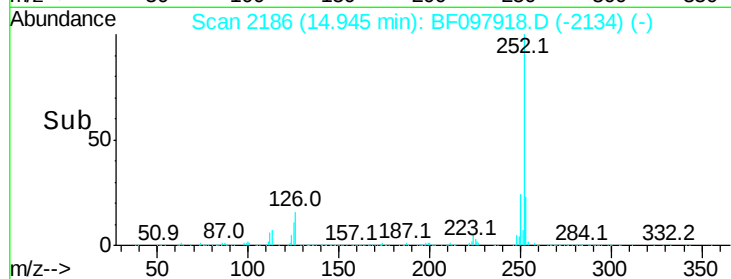
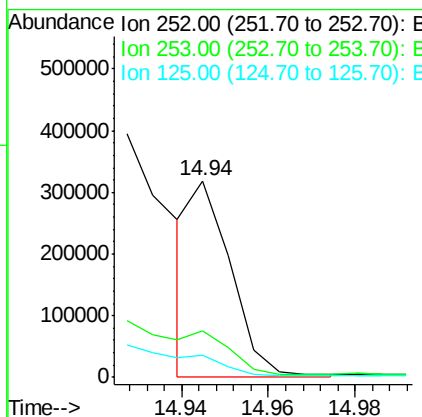
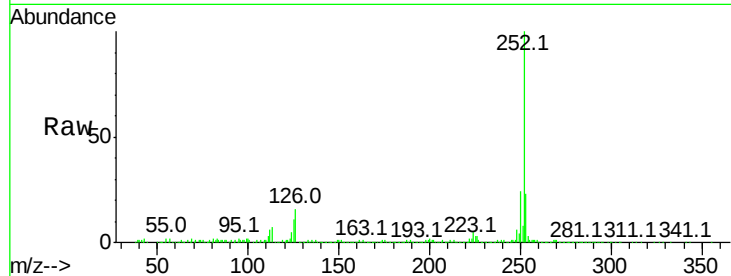
#88
Benzo(k)fluoranthene
Concen: 21.555 ng m
RT: 14.94 min Scan# 2186
Delta R.T. 0.01 min
Lab File: BF097918.D
Acq: 21 Aug 2017 21:15

Instrument :
BNA_F
ClientSampled :
E2-110-ESW

Tot Ion	Ratio	Resp	Lower	Upper
252	100	204435		
253	23.4	18.4	27.6	
125	11.3	13.1	19.7	

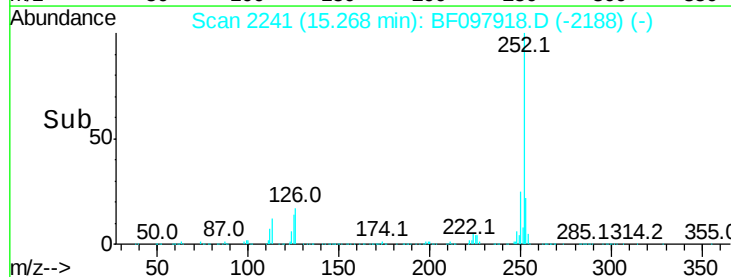
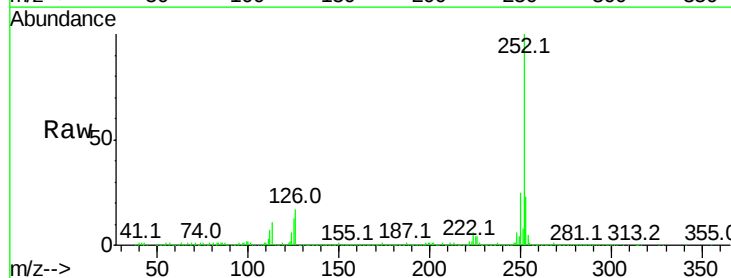
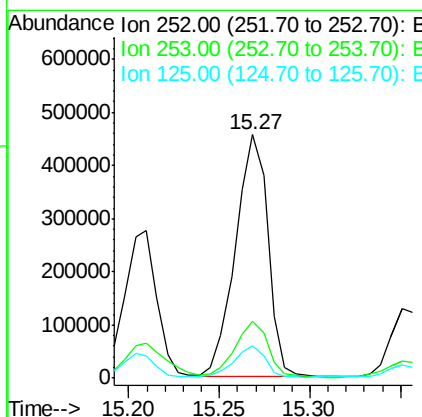
Manual Integrations
APPROVED

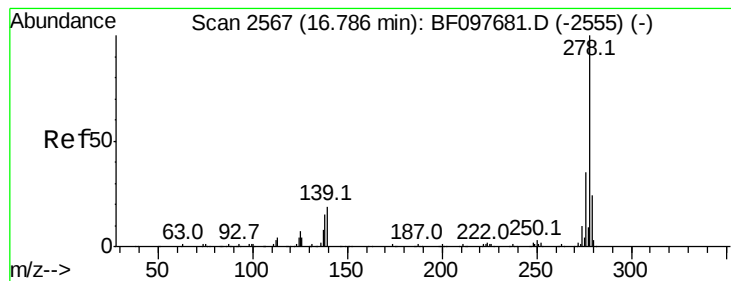
Sohil
8/22/2017 5:44:39 PM



#89
Benzo(a)pyrene
Concen: 63.913 ng
RT: 15.27 min Scan# 2241
Delta R.T. 0.01 min
Lab File: BF097918.D
Acq: 21 Aug 2017 21:15

Tgt Ion	Ratio	Resp	Lower	Upper
252	100	571189		
253	23.3	17.5	26.3	
125	13.4	11.0	16.4	





#90

Dibenzo(a,h)anthracene

Concen: 11.982 ng/mL

RT: 16.72 min Scan# 2487

Delta R.T. 0.01 min

Lab File: BF097918.D

Acq: 21 Aug 2017 21:15

Instrument :

BNA_F

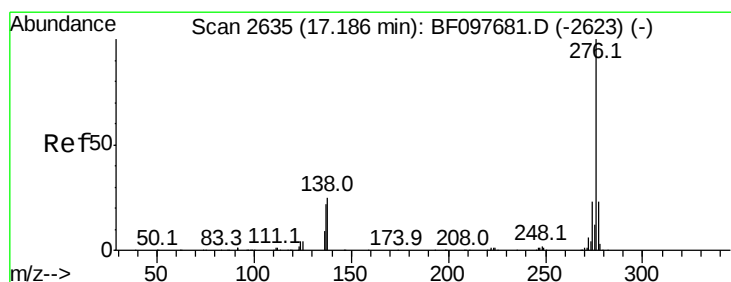
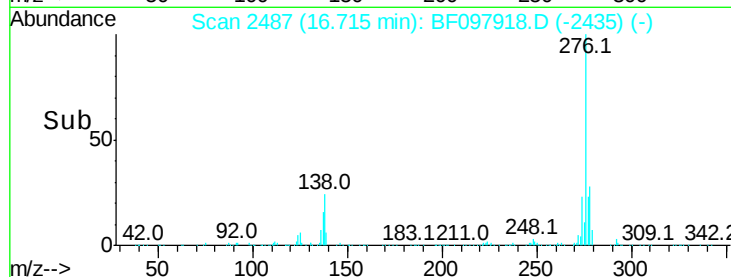
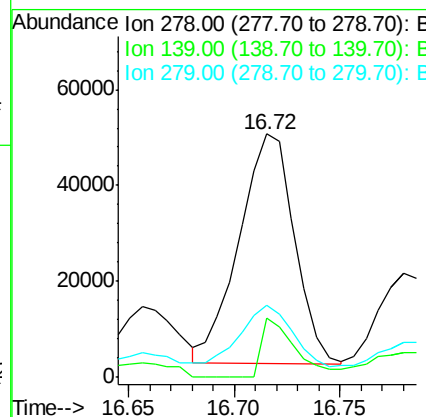
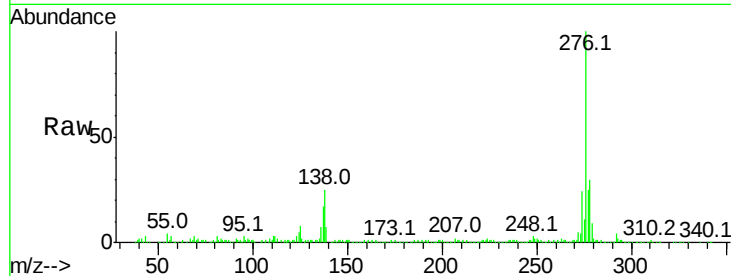
ClientSampleId :

E2-110-ESW

Tot Ion:	278	Resp:	87175
Ion Ratio	Lower	Upper	
278	100		
139	24.3	16.6	24.8
279	29.7	19.3	28.9

Manual Integrations
APPROVED

Sohil
8/22/2017 5:44:39 PM



#91

Benzo(g,h,i)perylene

Concen: 43.506 ng/mL

RT: 17.13 min Scan# 2557

Delta R.T. 0.02 min

Lab File: BF097918.D

Acq: 21 Aug 2017 21:15

Tgt Ion:	276	Resp:	330279
Ion Ratio	Lower	Upper	
276	100		
277	23.8	18.6	28.0
138	25.9	25.4	38.0

