

Data Path : Z:\HPCHEM1\BNA F\DATA\BF101715\
 Data File : BF082333.D
 Acq On : 16 Oct 2015 18:47
 Operator : UM/IZ
 Sample : G4051-07 10X
 Misc :
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 TK1-2-20151015

Manual Integrations
 APPROVED

MMdadoda
 10/19/2015 5:32:20 PM

Quant Time: Oct 17 02:10:31 2015
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF101015.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Sat Oct 17 01:08:23 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.90	152	50786m	20.00	ng	0.07
21) Naphthalene-d8	8.18	136	241411	20.00	ng	0.06
38) Acenaphthene-d10	9.93	164	122604	20.00	ng	0.05
63) Phenanthrene-d10	11.42	188	258957	20.00	ng	0.05
75) Chrysene-d12	14.08	240	234209	20.00	ng	0.01
86) Perylene-d12	15.58	264	220036	20.00	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.51	112	34037	13.53	ng	0.08
7) Phenol-d6	6.54	99	49345	15.07	ng	0.06
23) Nitrobenzene-d5	7.46	82	29162	8.11	ng	0.05
41) 2,4,6-Tribromophenol	10.73	330	15278	13.29	ng	0.05
44) 2-Fluorobiphenyl	9.26	172	63138	8.54	ng	0.05
78) Terphenyl-d14	13.01	244	66505	7.52	ng	0.05
Target Compounds						
70) Phenanthrene	11.45	178	184849	14.56	ng	97
71) Anthracene	11.50	178	48304	3.69	ng	99
74) Fluoranthene	12.64	202	254582	18.67	ng	98
77) Pyrene	12.87	202	219285	15.78	ng	97
80) Benzo(a)anthracene	14.07	228	106817	8.77	ng	99
82) Chrysene	14.12	228	88234	6.87	ng	97
85) Indeno(1,2,3-cd)pyrene	17.04	276	53507	5.24	ng	95
87) Benzo(b)fluoranthene	15.16	252	105038m	7.85	ng	
88) Benzo(k)fluoranthene	15.17	252	48797m	4.34	ng	
89) Benzo(a)pyrene	15.52	252	79790	6.94	ng	97
91) Benzo(g,h,i)perylene	17.49	276	54421	5.94	ng	97

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

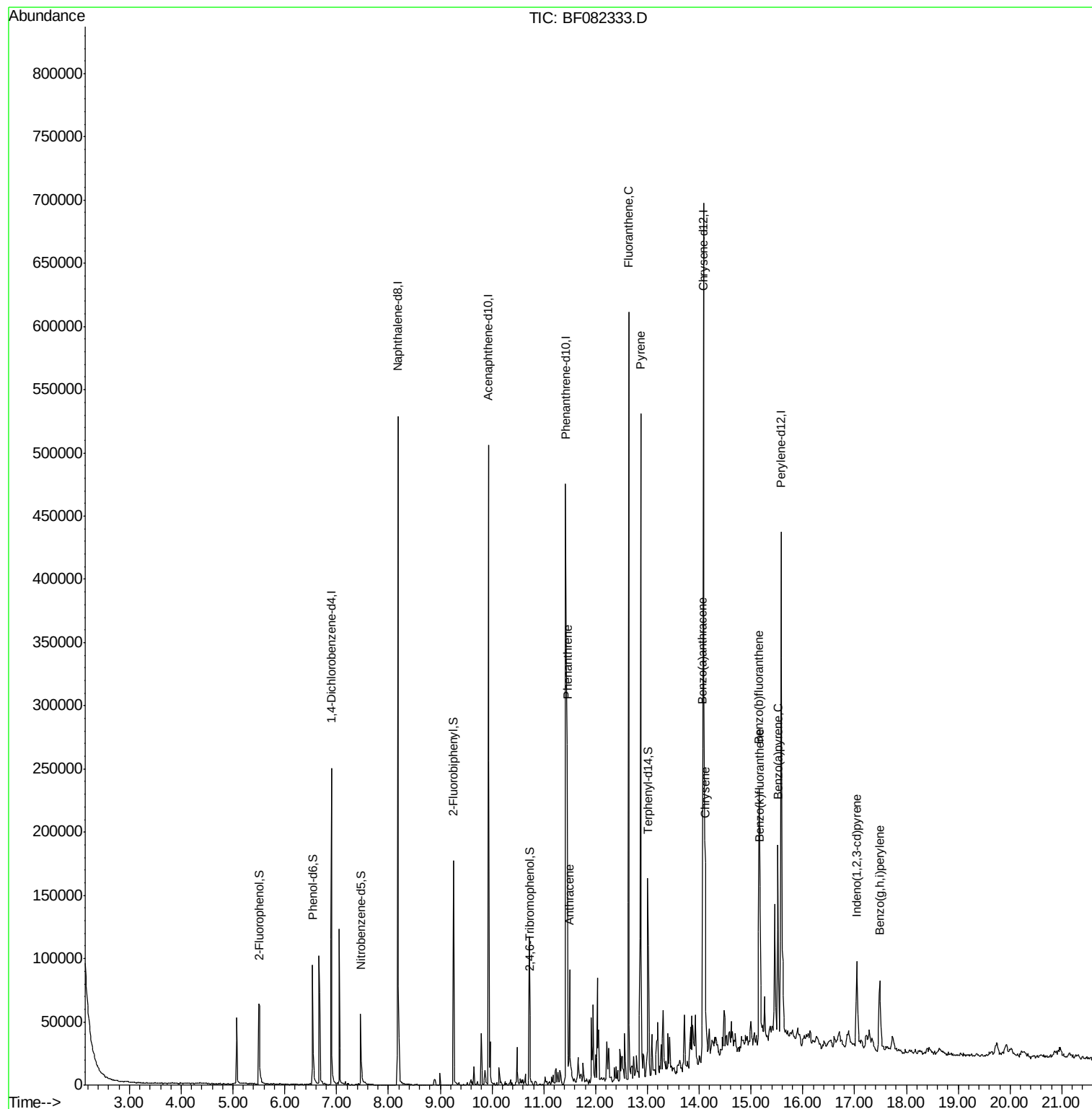
Data Path : Z:\HPCHEM1\BNA F\DATA\BF101715\
Data File : BF082333.D
Acq On : 16 Oct 2015 18:47
Operator : UM/IZ
Sample : G4051-07 10X
Misc :
ALS Vial : 15 Sample Multiplier: 1

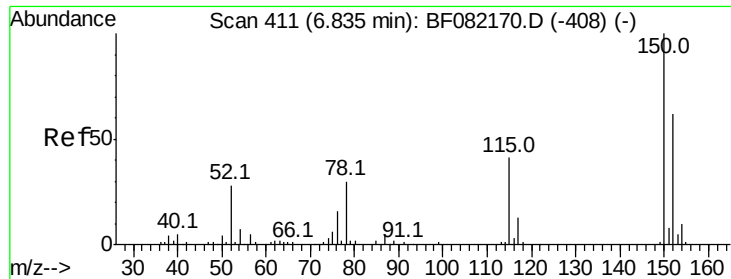
Instrument :
BNA_F
ClientSampleId :
TK1-2-20151015

Manual Integrations
APPROVED

MMdadoda
10/19/2015 5:32:20 PM

Quant Time: Oct 17 02:10:31 2015
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF101015.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Sat Oct 17 01:08:23 2015
Response via : Initial Calibration





#1

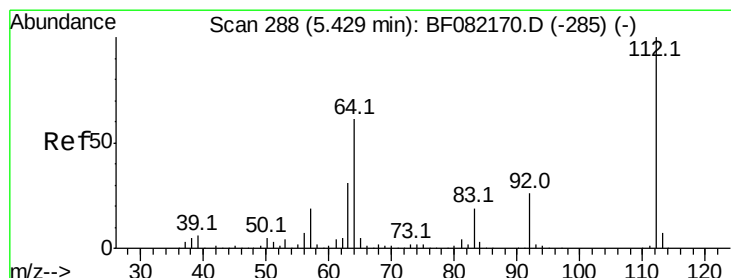
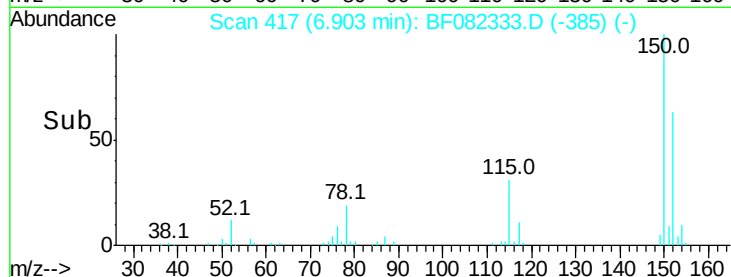
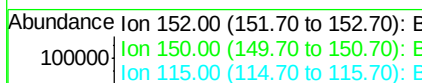
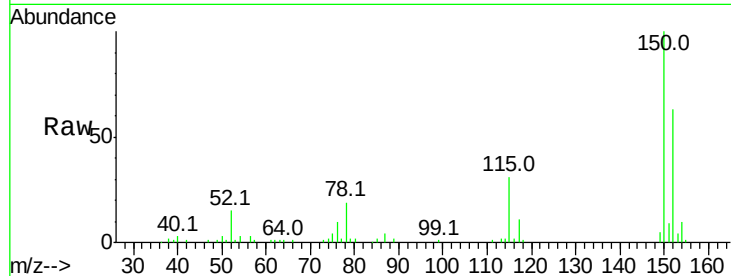
1,4-Dichlorobenzene-d4
Concen: 20.00 ng/ml
RT: 6.90 min Scan# 417
Delta R.T. 0.07 min
Lab File: BF082333.D
Acq: 16 Oct 2015 18:47

Instrument :
BNA_F
ClientSampleId :
TK1-2-20151015

Tot Ion	Ratio	Lower	Upper
152	100		
150	158.9	129.0	193.4
115	49.7	52.1	78.1#

Manual Integrations
APPROVED

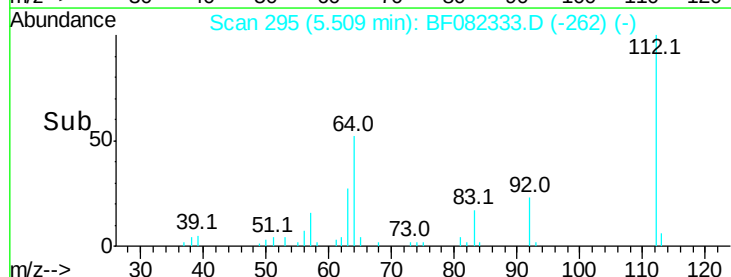
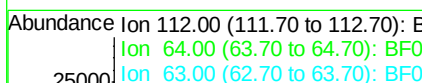
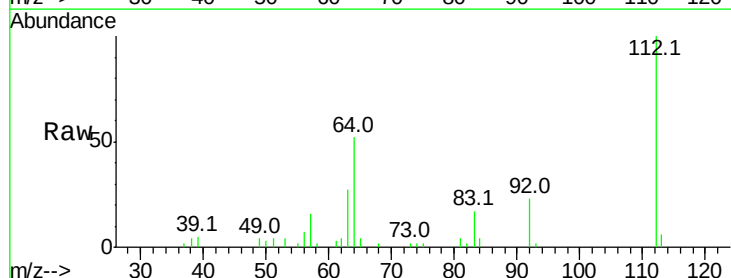
MMdadoda
10/19/2015 5:32:20 PM

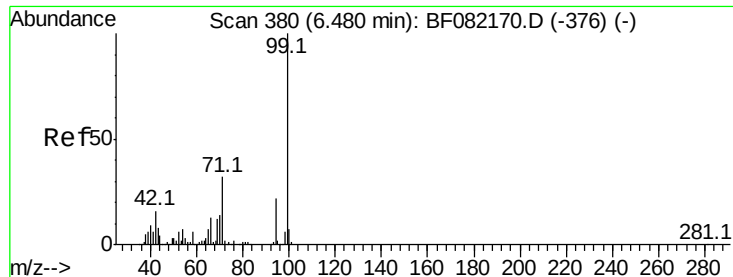


#5

2-Fluorophenol
Concen: 13.53 ng
RT: 5.51 min Scan# 295
Delta R.T. 0.08 min
Lab File: BF082333.D
Acq: 16 Oct 2015 18:47

Tgt Ion	Ratio	Lower	Upper
112	100		
64	51.6	48.6	73.0
63	26.6	25.1	37.7





#7

Phenol-d6

Concen: 15.07 ng

RT: 6.54 min Scan# 385

Delta R.T. 0.06 min

Lab File: BF082333.D

Acq: 16 Oct 2015 18:47

Instrument :

BNA_F

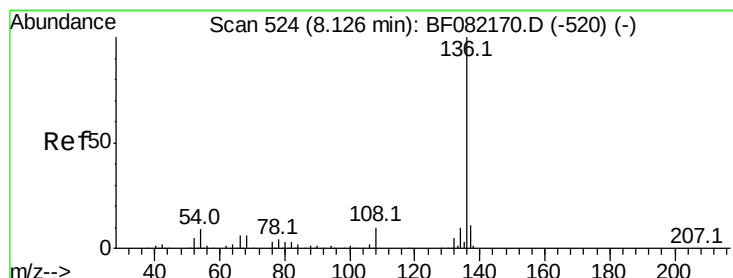
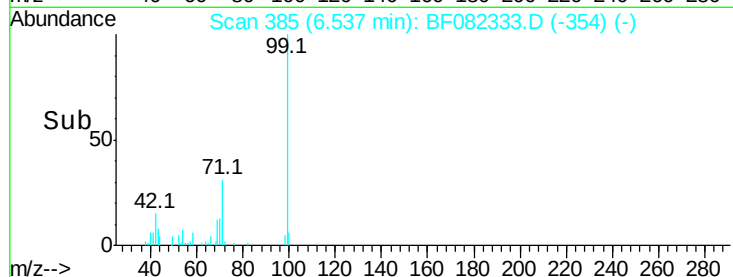
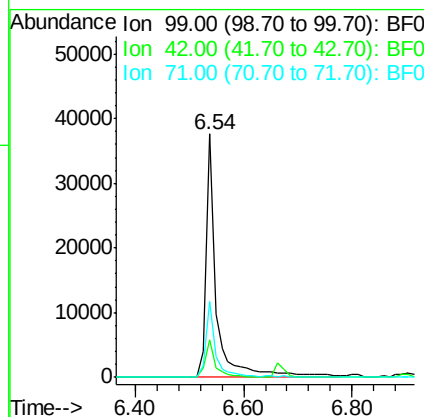
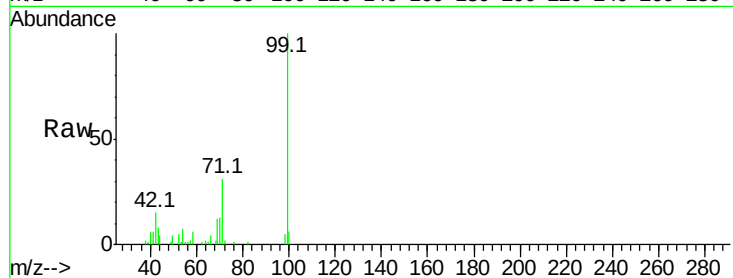
ClientSampleId :

TK1-2-20151015

Tot Ion:	99	Resp:	49345
Ion Ratio	Lower	Upper	
99	100		
42	15.5	13.2	19.8
71	31.0	25.6	38.4

Manual Integrations
APPROVED

MMdadoda
10/19/2015 5:32:20 PM



#21

Naphthalene-d8

Concen: 20.00 ng

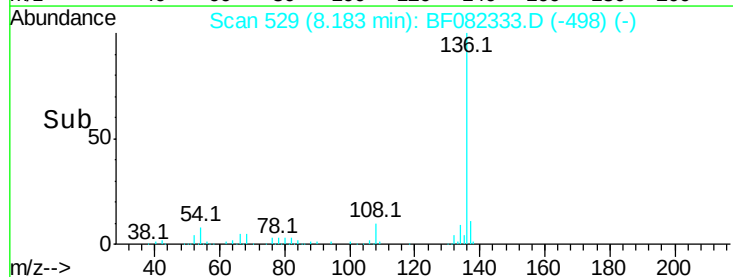
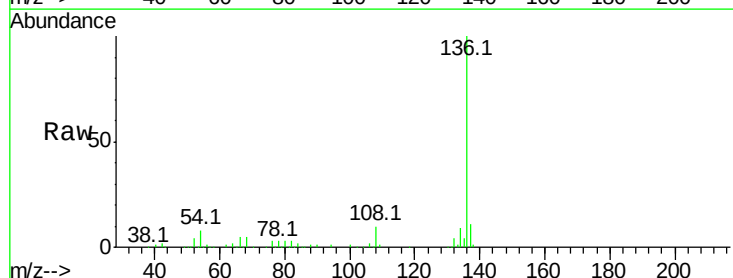
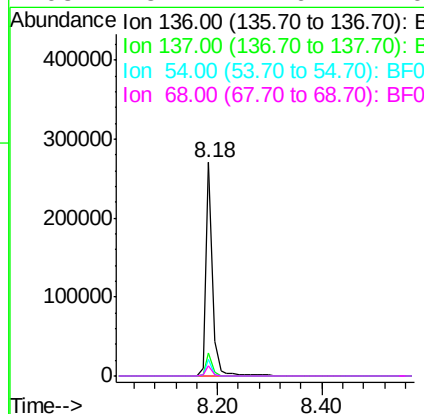
RT: 8.18 min Scan# 529

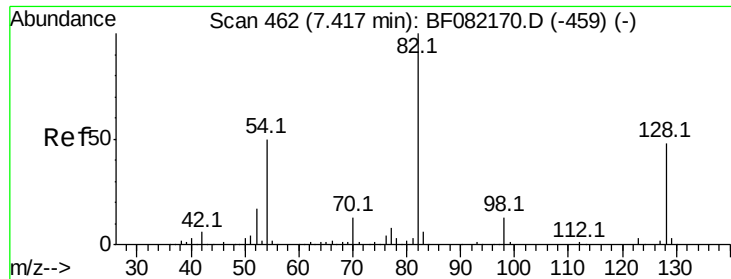
Delta R.T. 0.06 min

Lab File: BF082333.D

Acq: 16 Oct 2015 18:47

Tgt Ion:	136	Resp:	241411
Ion Ratio	Lower	Upper	
136	100		
137	10.7	9.0	13.6
54	8.1	7.5	11.3
68	5.1	4.6	7.0





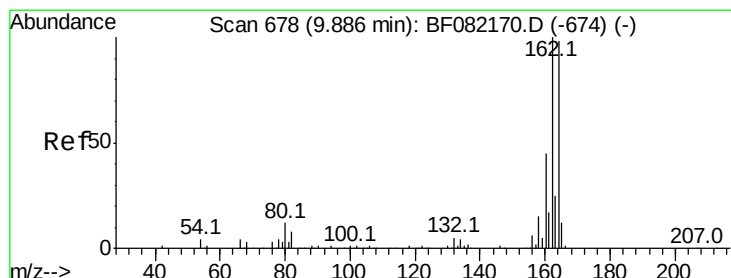
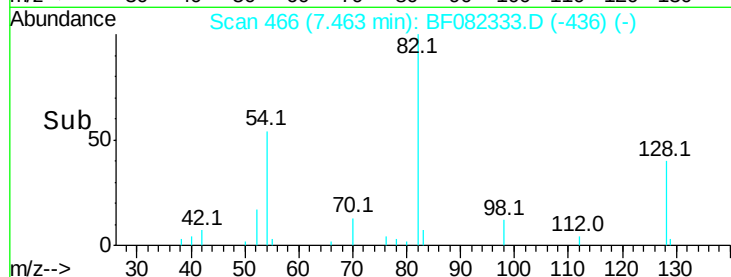
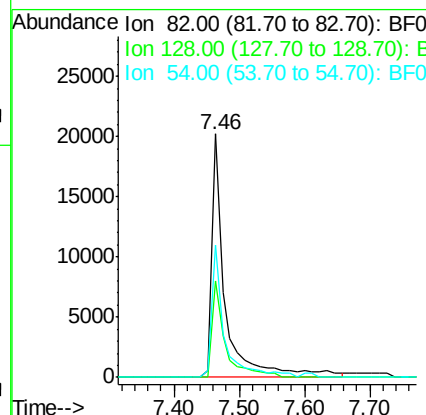
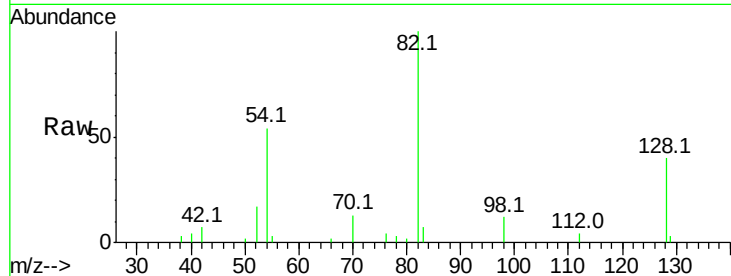
#23
Nitrobenzene-d5
Concen: 8.11 ng
RT: 7.46 min Scan# 466
Delta R.T. 0.05 min
Lab File: BF082333.D
Acq: 16 Oct 2015 18:47

Instrument :
BNA_F
ClientSampleId :
TK1-2-20151015

Tot Ion	Ratio	Lower	Upper
82	100		
128	39.6	38.7	58.1
54	54.1	40.1	60.1

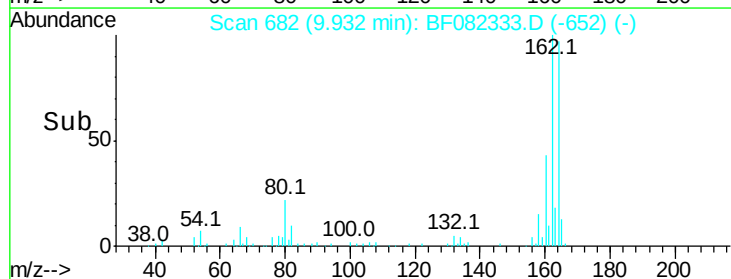
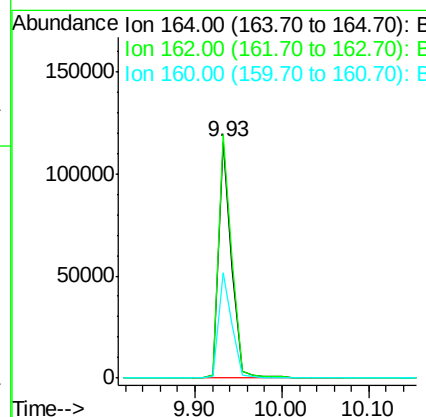
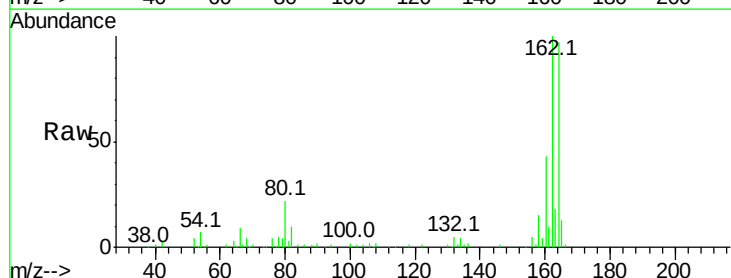
Manual Integrations
APPROVED

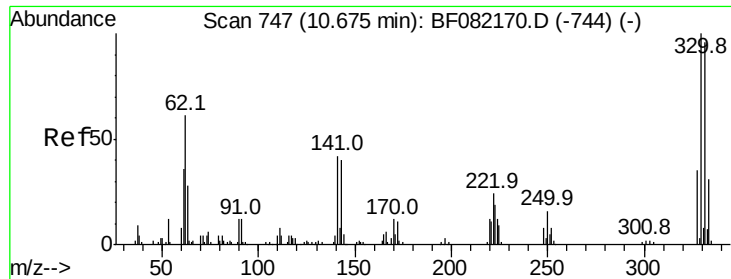
MMdadoda
10/19/2015 5:32:20 PM



#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 9.93 min Scan# 682
Delta R.T. 0.05 min
Lab File: BF082333.D
Acq: 16 Oct 2015 18:47

Tgt Ion	Ratio	Lower	Upper
164	100		
162	103.0	81.6	122.4
160	44.3	36.4	54.6





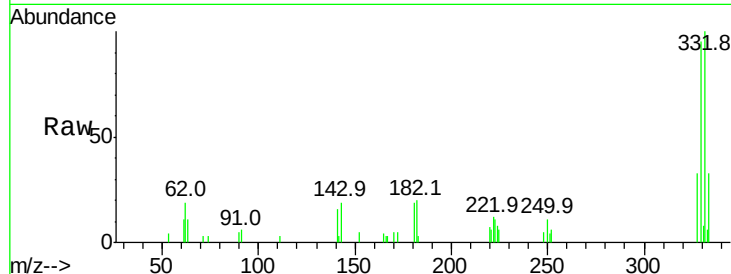
#41
 2,4,6-Tribromophenol
 Concen: 13.29 ng
 RT: 10.73 min Scan# 752
 Delta R.T. 0.05 min
 Lab File: BF082333.D
 Acq: 16 Oct 2015 18:47

Instrument :
 BNA_F
 ClientSampleId :
 TK1-2-20151015

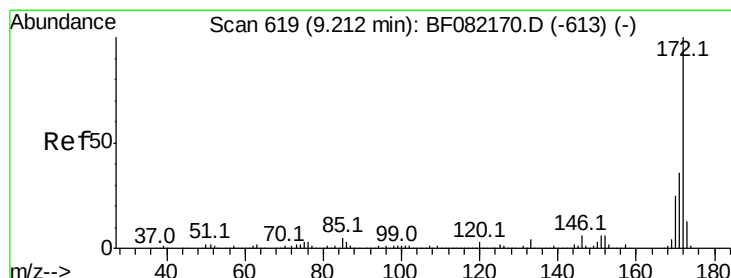
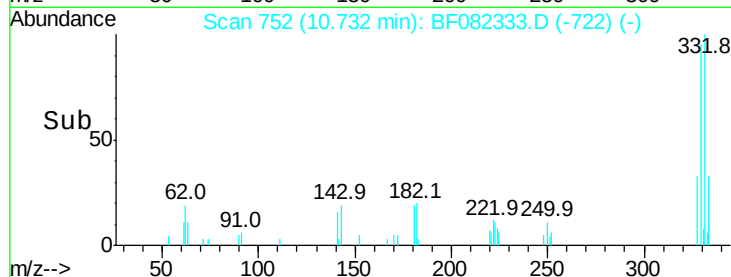
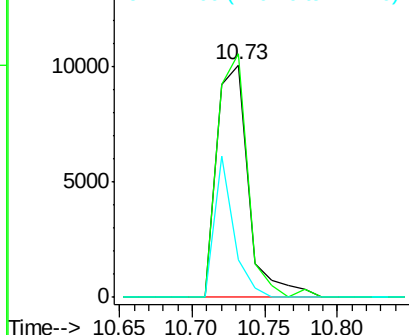
Tot Ion	Ratio	Resp	Lower	Upper
330	100	15278		
332	99.4	77.1	115.7	
141	36.6	29.8	44.8	

Manual Integrations
 APPROVED

MMdadoda
 10/19/2015 5:32:20 PM



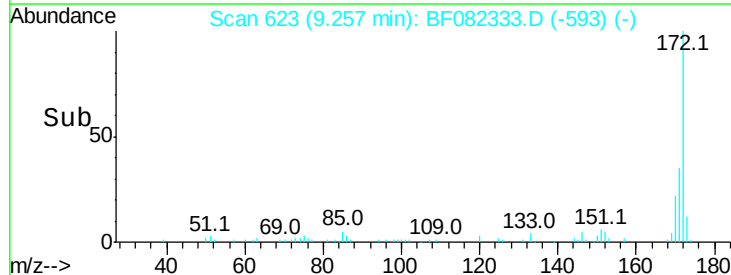
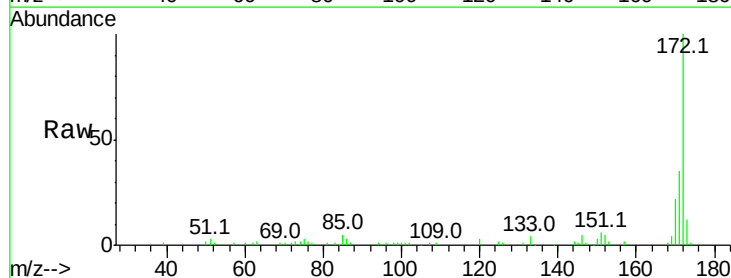
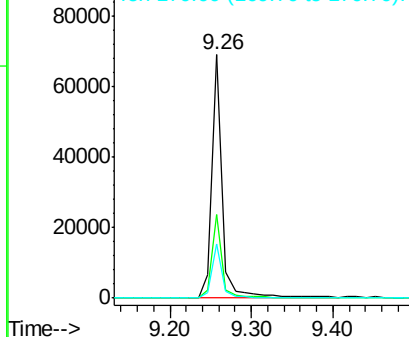
Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

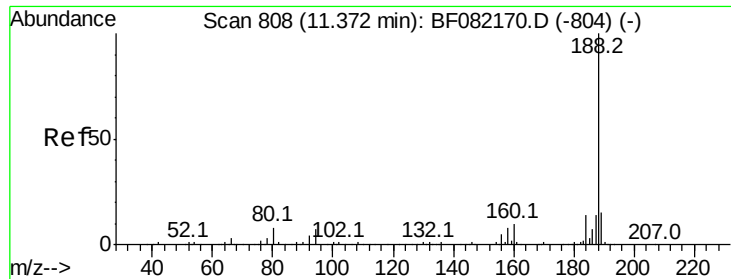


#44
 2-Fluorobiphenyl
 Concen: 8.54 ng
 RT: 9.26 min Scan# 623
 Delta R.T. 0.05 min
 Lab File: BF082333.D
 Acq: 16 Oct 2015 18:47

Tgt Ion	Ratio	Resp	Lower	Upper
172	100	63138		
171	34.6	28.6	42.8	
170	22.4	19.7	29.5	

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





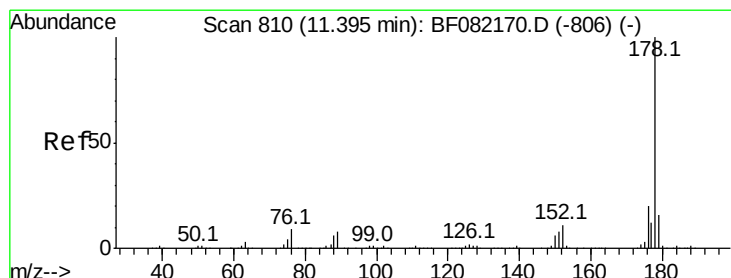
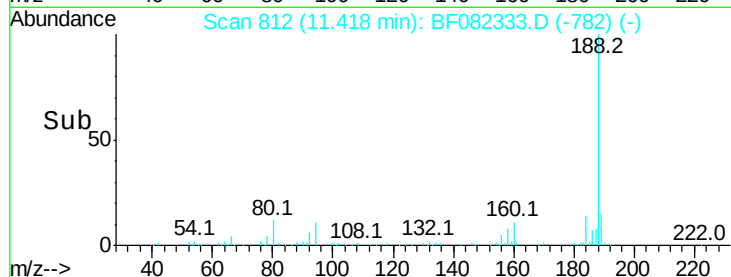
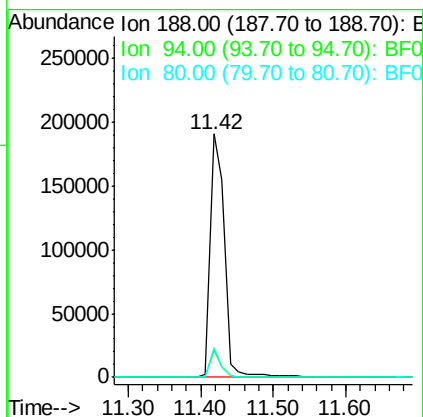
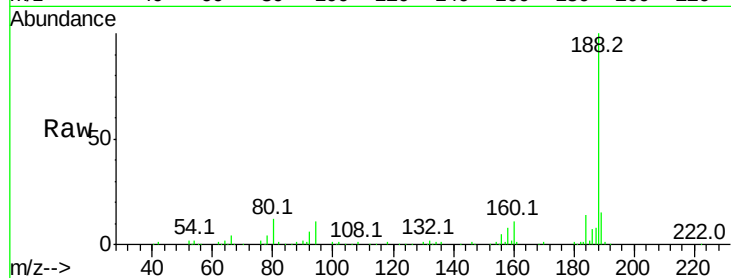
#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 11.42 min Scan# 812
Delta R.T. 0.05 min
Lab File: BF082333.D
Acq: 16 Oct 2015 18:47

Instrument :
BNA_F
ClientSampleId :
TK1-2-20151015

Tot Ion	Ratio	Resp	Lower	Upper
188	100	258957		
94	11.2		5.8	8.6#
80	12.5		6.4	9.6#

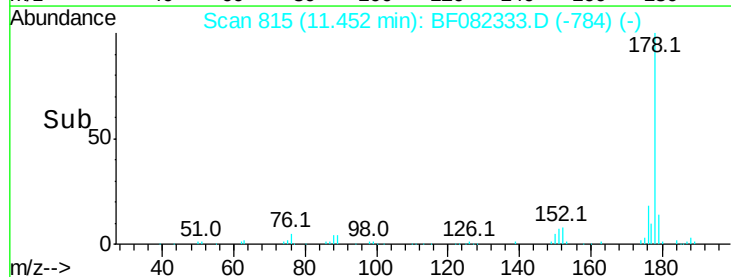
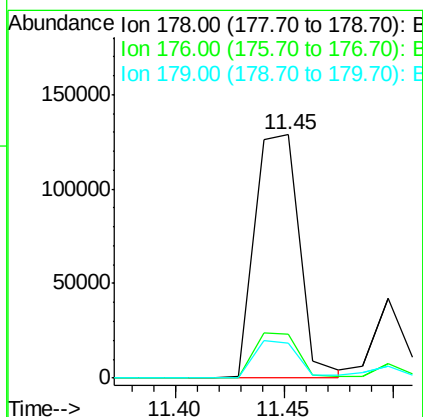
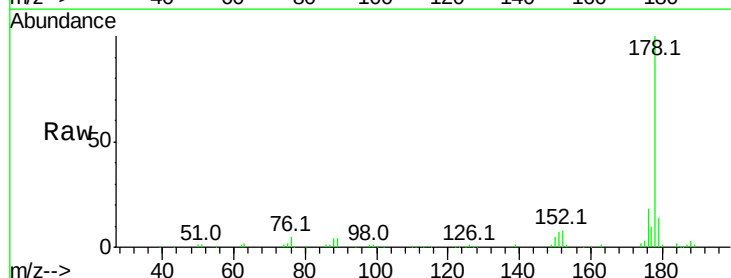
Manual Integrations
APPROVED

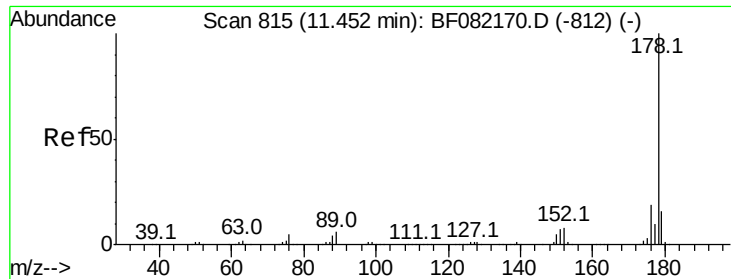
MMdadoda
10/19/2015 5:32:20 PM



#70
Phenanthrene
Concen: 14.56 ng
RT: 11.45 min Scan# 815
Delta R.T. 0.06 min
Lab File: BF082333.D
Acq: 16 Oct 2015 18:47

Tgt Ion	Ratio	Resp	Lower	Upper
178	100	184849		
176	18.3		16.0	24.0
179	14.5		12.6	19.0





#71

Anthracene

Concen: 3.69 ng

RT: 11.50 min Scan# 819

Delta R.T. 0.05 min

Lab File: BF082333.D

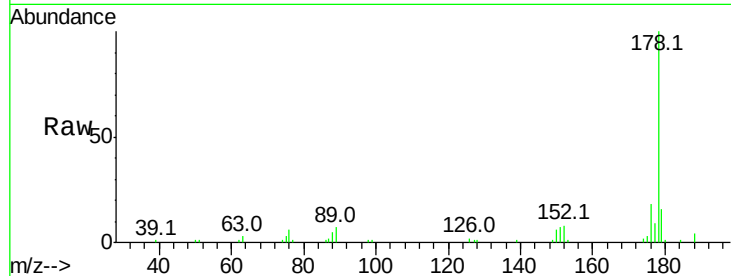
Acq: 16 Oct 2015 18:47

Instrument :

BNA_F

ClientSampleId :

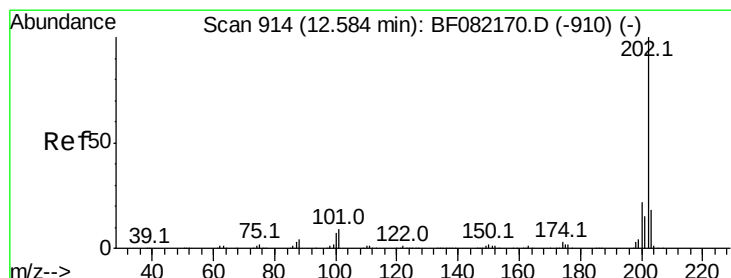
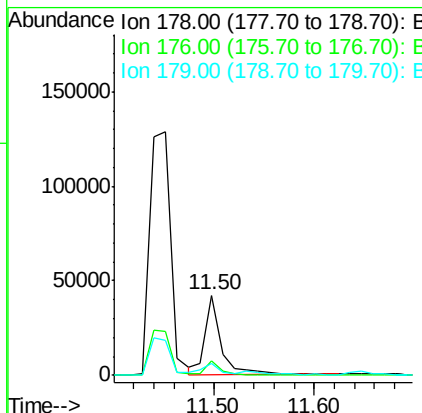
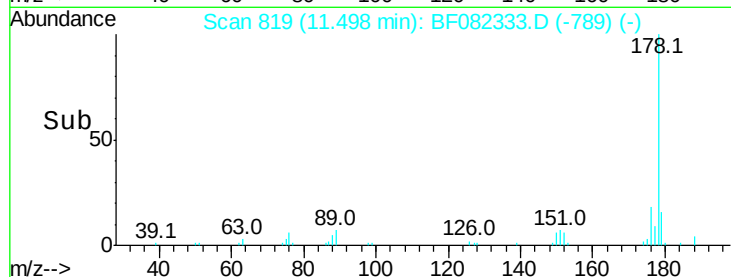
TK1-2-20151015



Tot Ion:	178	Resp:	48304
Ion Ratio	Lower	Upper	
178	100		
176	18.2	15.4	23.0
179	15.5	12.5	18.7

Manual Integrations
APPROVED

MMdadoda
10/19/2015 5:32:20 PM



#74

Fluoranthene

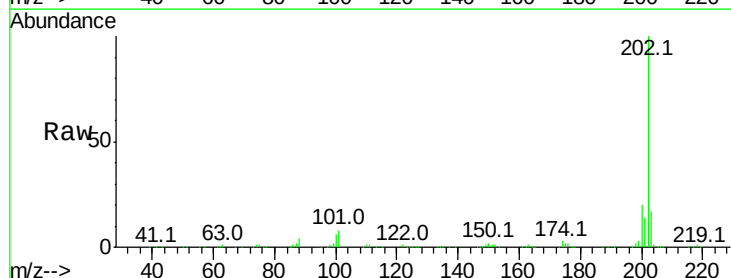
Concen: 18.67 ng

RT: 12.64 min Scan# 919

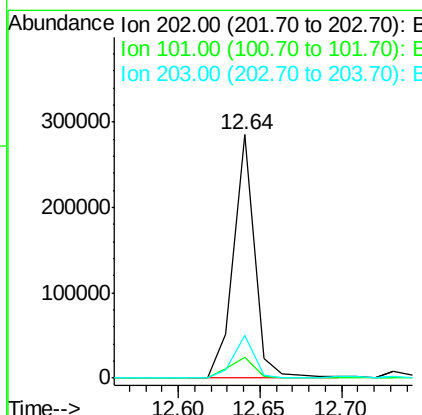
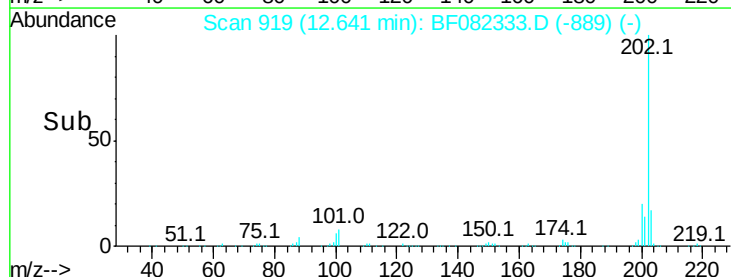
Delta R.T. 0.05 min

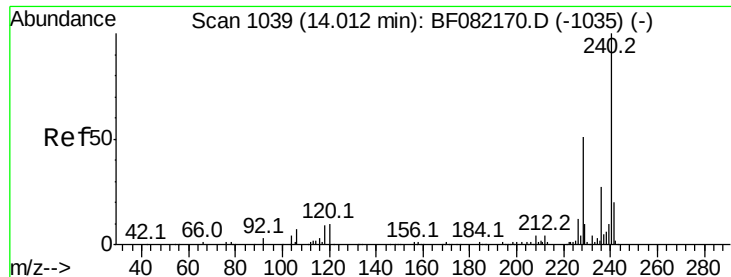
Lab File: BF082333.D

Acq: 16 Oct 2015 18:47



Tgt Ion:	202	Resp:	254582
Ion Ratio	Lower	Upper	
202	100		
101	8.4	0.0	29.3
203	17.3	0.0	37.8





#75

Chrysene-d12

Concen: 20.00 ng

RT: 14.08 min Scan# 1045

Delta R.T. 0.01 min

Lab File: BF082333.D

Acq: 16 Oct 2015 18:47

Instrument :

BNA_F

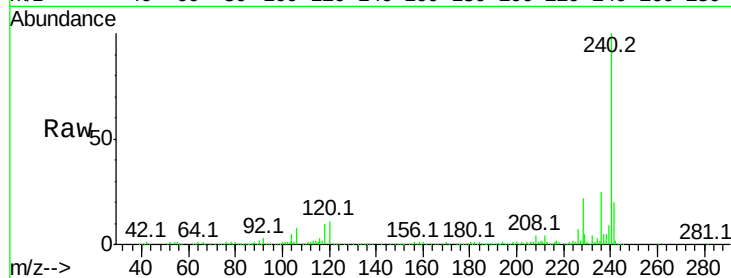
ClientSampleId :

TK1-2-20151015

Tot Ion:	240	Resp:	234209
Ion Ratio	Lower	Upper	
240	100		
120	11.5	8.1	12.1
236	25.5	21.3	31.9

Manual Integrations
APPROVED

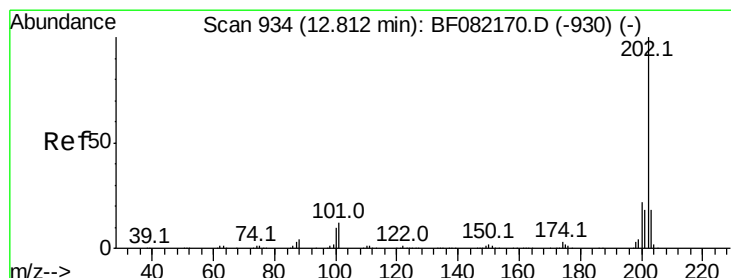
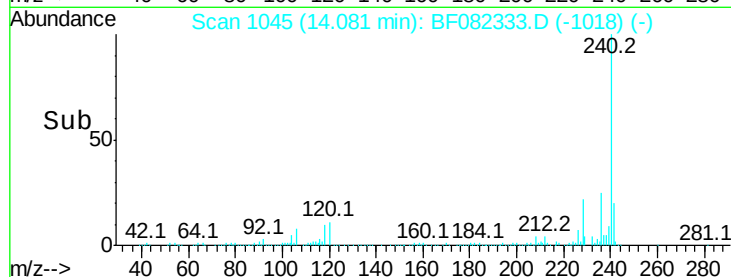
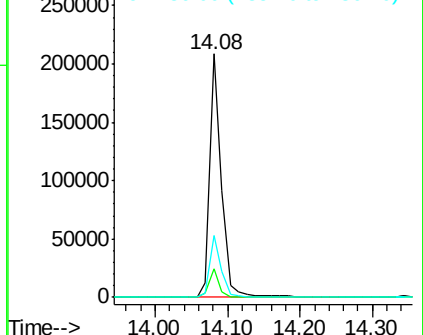
MMdadoda
10/19/2015 5:32:20 PM



Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E



#77

Pyrene

Concen: 15.78 ng

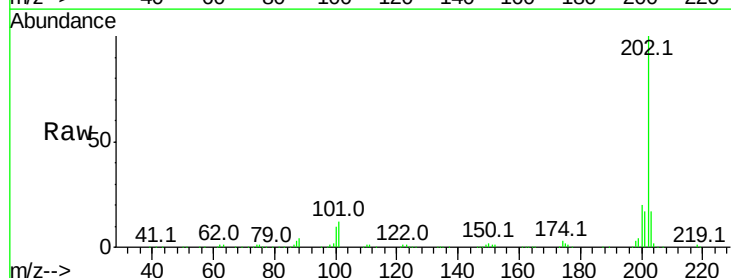
RT: 12.87 min Scan# 939

Delta R.T. 0.05 min

Lab File: BF082333.D

Acq: 16 Oct 2015 18:47

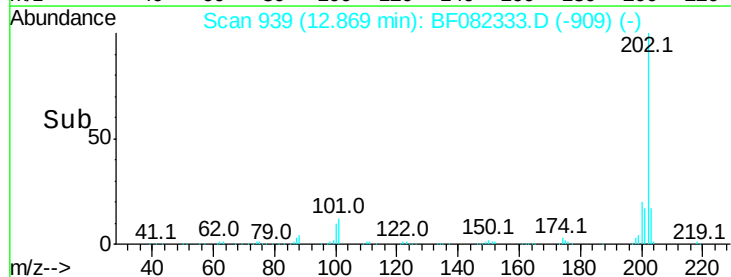
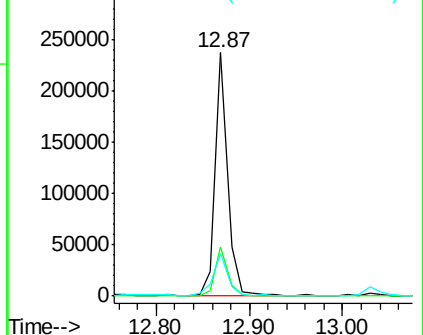
Tgt Ion:	202	Resp:	219285
Ion Ratio	Lower	Upper	
202	100		
200	20.3	17.9	26.9
203	17.5	14.5	21.7

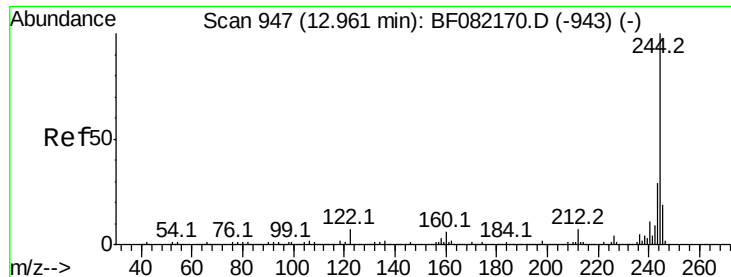


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#78

Terphenyl-d14

Concen: 7.52 ng

RT: 13.01 min Scan# 951

Delta R.T. 0.05 min

Lab File: BF082333.D

Acq: 16 Oct 2015 18:47

Instrument :

BNA_F

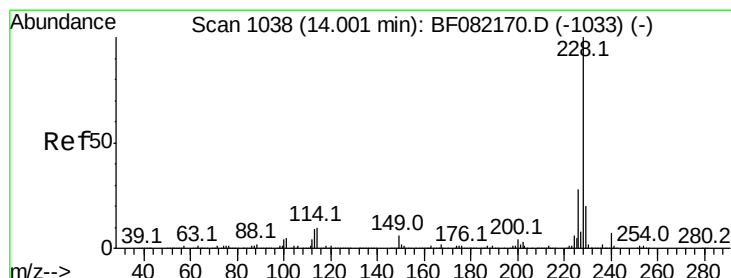
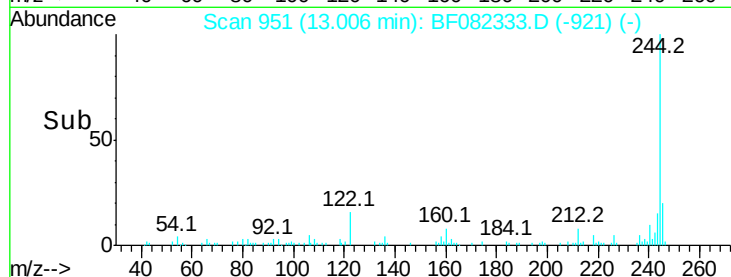
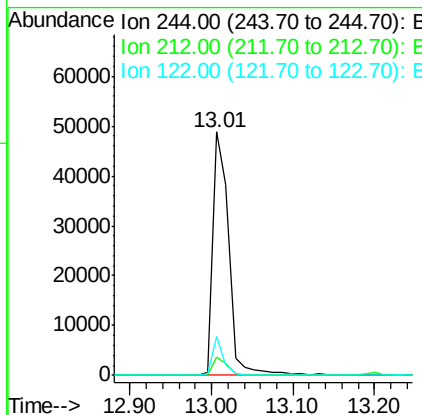
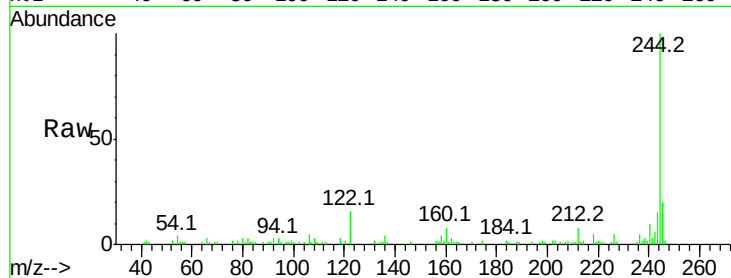
ClientSampleId :

TK1-2-20151015

Tot Ion:	244	Resp:	66505
Ion Ratio	Lower	Upper	
244	100		
212	7.5	5.8	8.6
122	15.7	5.9	8.9#

Manual Integrations
APPROVED

MMdadoda
10/19/2015 5:32:20 PM



#80

Benzo(a)anthracene

Concen: 8.77 ng

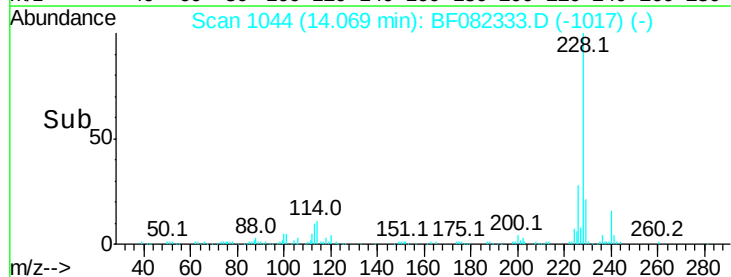
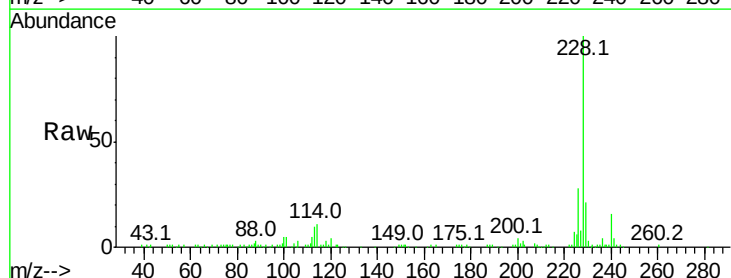
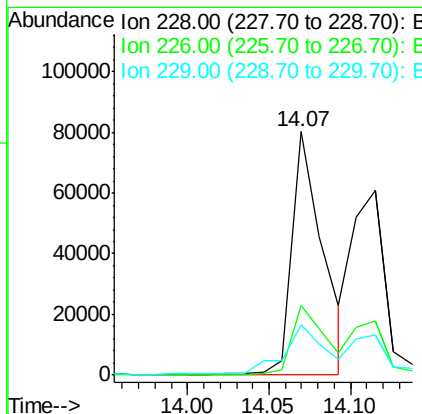
RT: 14.07 min Scan# 1044

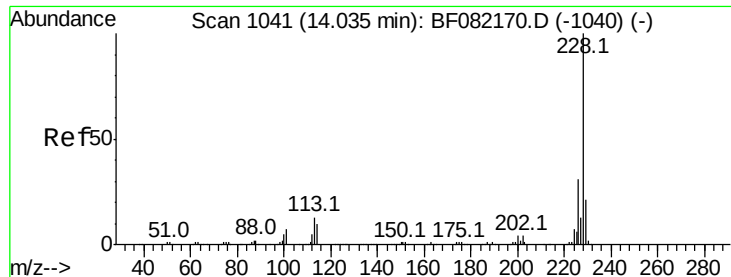
Delta R.T. 0.01 min

Lab File: BF082333.D

Acq: 16 Oct 2015 18:47

Tgt Ion:	228	Resp:	106817
Ion Ratio	Lower	Upper	
228	100		
226	28.4	22.3	33.5
229	20.7	16.2	24.2





#82

Chrysene

Concen: 6.87 ng

RT: 14.12 min Scan# 1048

Delta R.T. 0.02 min

Lab File: BF082333.D

Acq: 16 Oct 2015 18:47

Instrument :

BNA_F

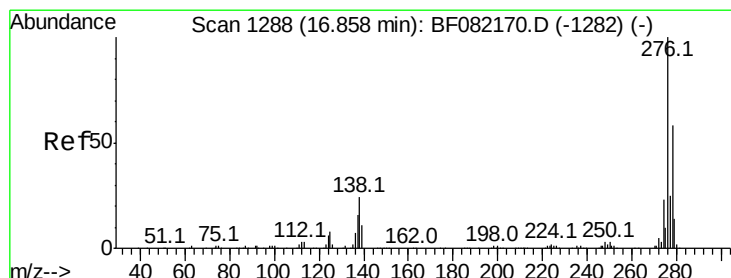
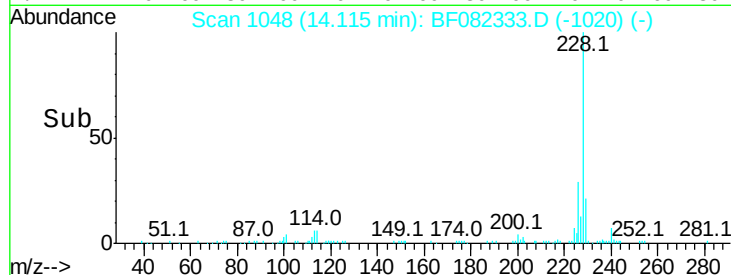
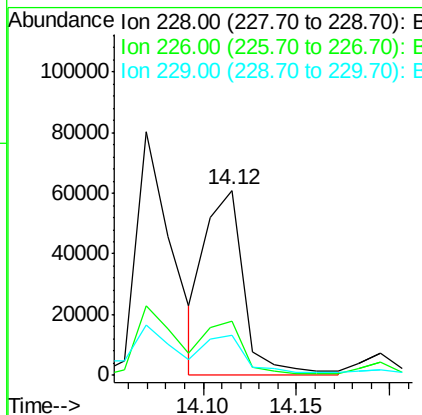
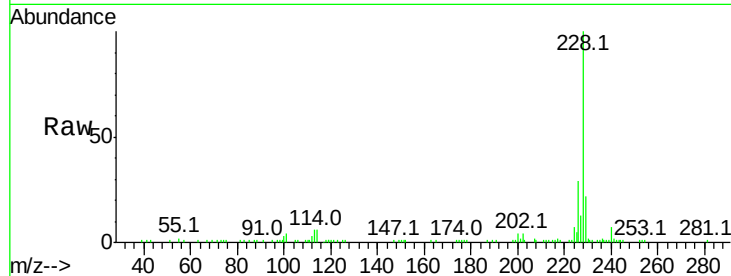
ClientSampleId :

TK1-2-20151015

Tot Ion:	228	Resp:	88234
Ion Ratio	Lower	Upper	
228	100		
226	29.2	24.4	36.6
229	22.0	16.3	24.5

Manual Integrations
APPROVED

MMdadoda
10/19/2015 5:32:20 PM



#85

Indeno(1,2,3-cd)pyrene

Concen: 5.24 ng

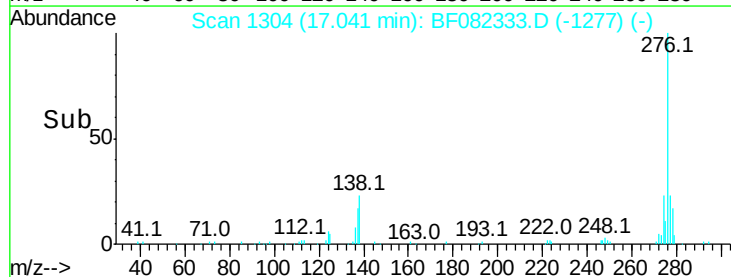
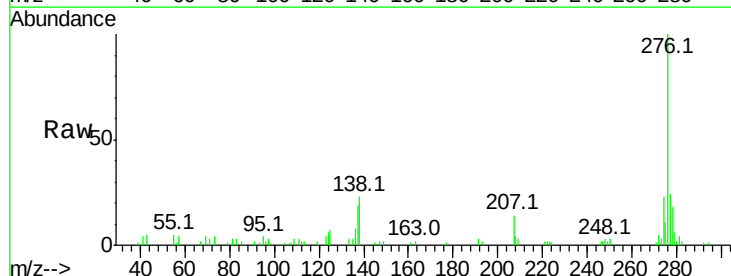
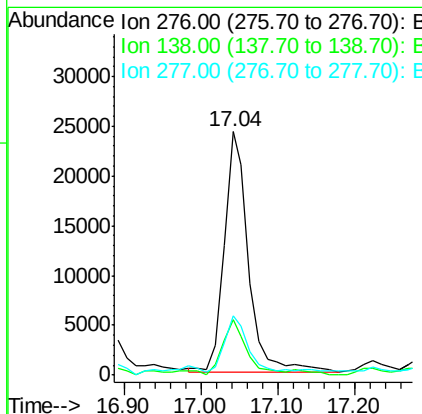
RT: 17.04 min Scan# 1304

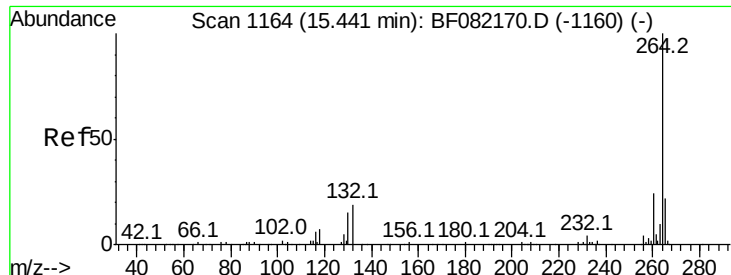
Delta R.T. 0.01 min

Lab File: BF082333.D

Acq: 16 Oct 2015 18:47

Tgt Ion:	276	Resp:	53507
Ion Ratio	Lower	Upper	
276	100		
138	22.9	19.7	29.5
277	22.2	20.1	30.1





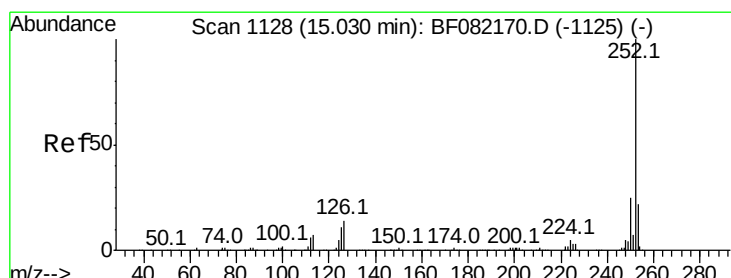
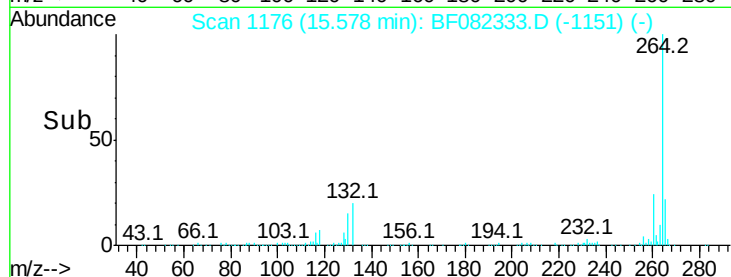
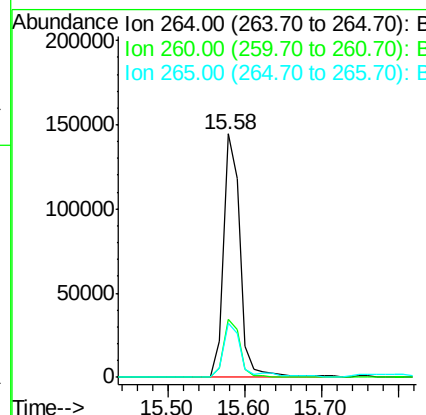
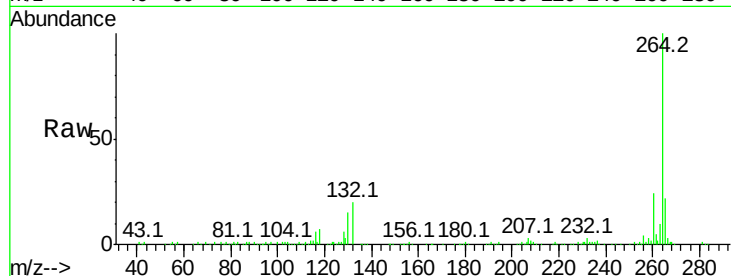
#86
Pervlene-d12
Concen: 20.00 ng
RT: 15.58 min Scan# 1176
Delta R.T. -0.01 min
Lab File: BF082333.D
Acq: 16 Oct 2015 18:47

Instrument :
BNA_F
ClientSampleId :
TK1-2-20151015

Tot Ion	Ratio	Resp	Lower	Upper
264	100			
260	23.6	19.0	28.6	
265	22.2	17.3	25.9	

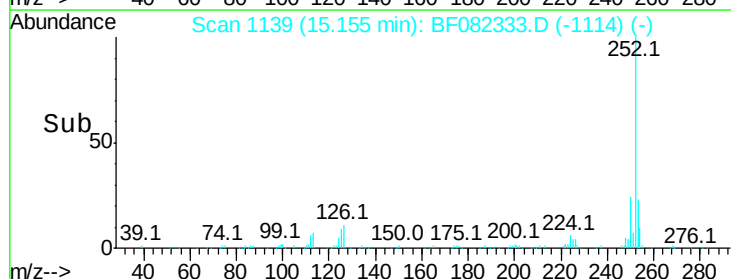
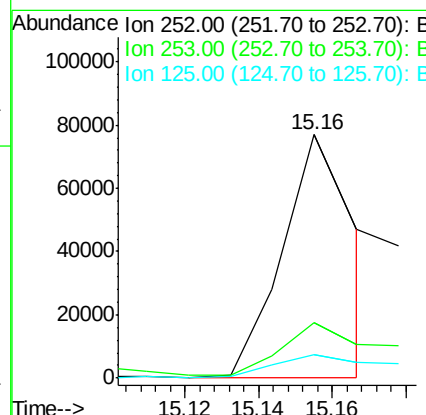
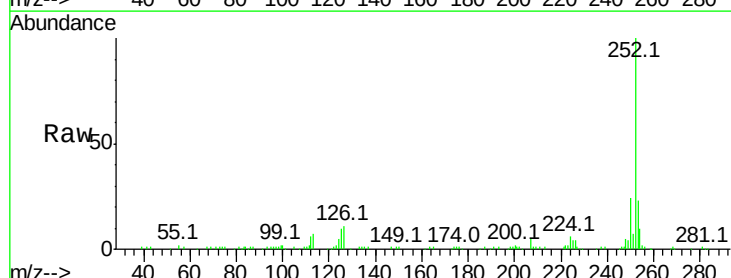
Manual Integrations
APPROVED

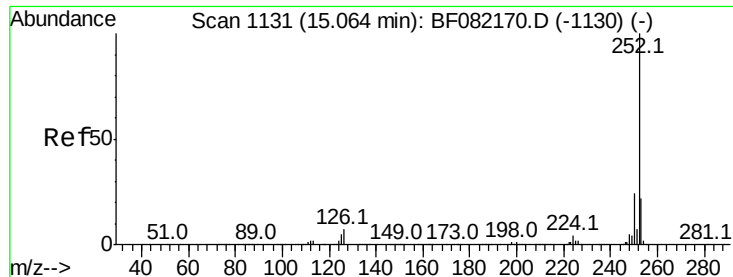
MMdadoda
10/19/2015 5:32:20 PM



#87
Benzo(b)fluoranthene
Concen: 7.85 ng m
RT: 15.16 min Scan# 1139
Delta R.T. -0.01 min
Lab File: BF082333.D
Acq: 16 Oct 2015 18:47

Tgt Ion	Ratio	Resp	Lower	Upper
252	100			
253	23.0	18.0	27.0	
125	9.9	8.6	12.8	





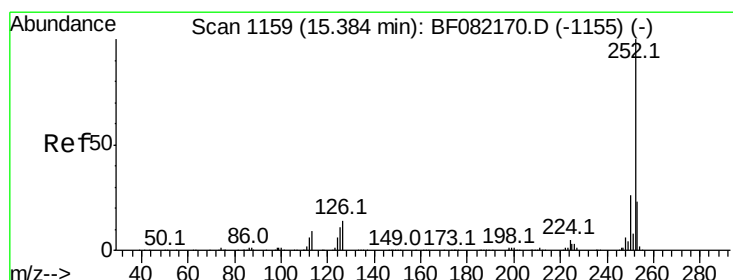
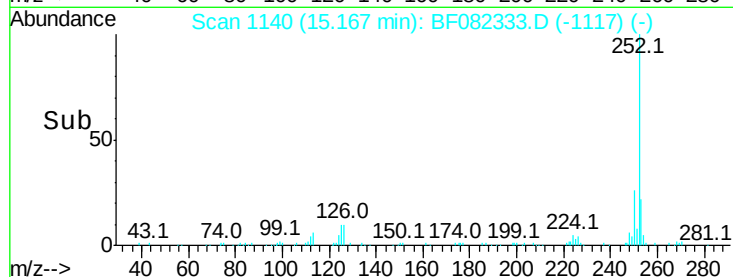
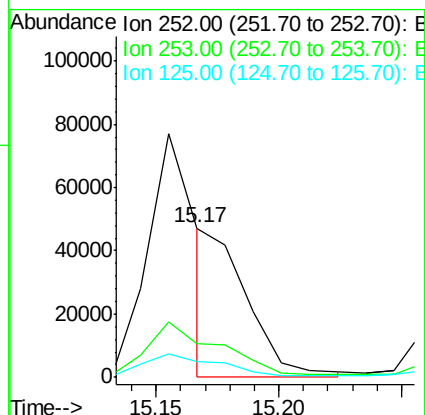
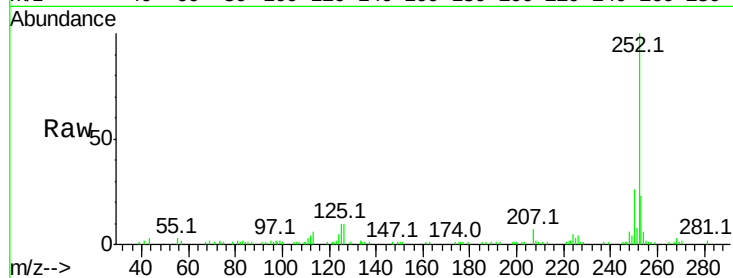
#88
Benzo(k)fluoranthene
Concen: 4.34 ng m
RT: 15.17 min Scan# 1140
Delta R.T. -0.03 min
Lab File: BF082333.D
Acq: 16 Oct 2015 18:47

Instrument :
BNA_F
ClientSampleId :
TK1-2-20151015

Tot Ion	Ratio	Resp	Lower	Upper
252	100	48797		
253	22.9	17.8	26.6	
125	10.3	6.7	10.1	

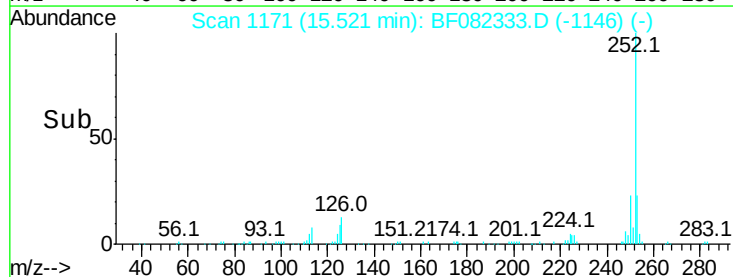
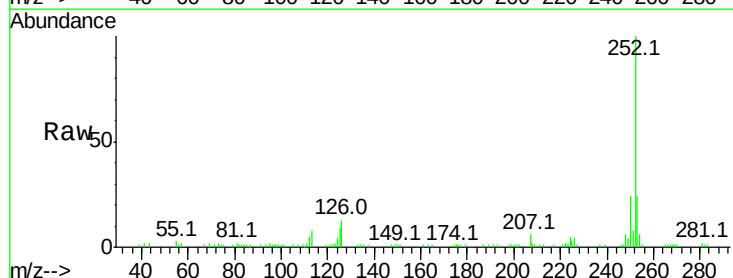
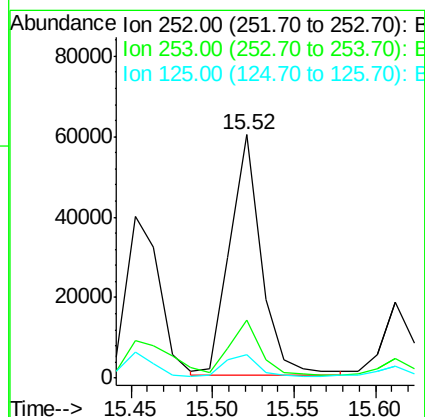
Manual Integrations
APPROVED

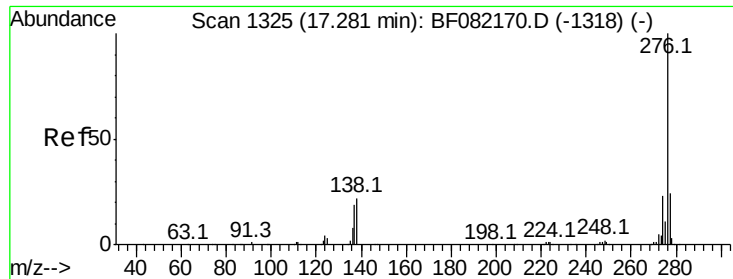
MMdadoda
10/19/2015 5:32:20 PM



#89
Benzo(a)pyrene
Concen: 6.94 ng
RT: 15.52 min Scan# 1171
Delta R.T. -0.01 min
Lab File: BF082333.D
Acq: 16 Oct 2015 18:47

Tgt Ion	Ratio	Resp	Lower	Upper
252	100	79790		
253	23.6	18.2	27.2	
125	9.4	8.9	13.3	





#91
 Benzo(a,h,i)perylene
 Concen: 5.94 ng
 RT: 17.49 min Scan# 1343
 Delta R.T. 0.02 min
 Lab File: BF082333.D
 Acq: 16 Oct 2015 18:47

Instrument :
 BNA_F
 ClientSampleId :
 TK1-2-20151015

Tot Ion	Ratio	Lower	Upper
276	100		
277	24.5	18.8	28.2
138	23.3	17.4	26.2

Manual Integrations
 APPROVED

MMdadoda
 10/19/2015 5:32:20 PM

