

Data Path : Z:\HPCHEM1\BNA F\DATA\BF042016\
 Data File : BF086331.D
 Acq On : 21 Apr 2016 1:58
 Operator : UM/SJ
 Sample : H2601-17
 Misc :
 ALS Vial : 33 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 RODNEY-AVE-PS(0-2)I

Manual Integrations
 APPROVED

sohil
 4/21/2016 7:56:34 PM

Quant Time: Apr 21 13:41:39 2016
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF042016.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Apr 20 15:45:26 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.86	152	254169	20.00	ng	-0.03
21) Naphthalene-d8	8.16	136	1003071	20.00	ng	-0.02
38) Acenaphthene-d10	9.90	164	371517	20.00	ng	-0.03
63) Phenanthrene-d10	11.39	188	592574	20.00	ng	-0.02
75) Chrysene-d12	14.03	240	400926	20.00	ng	-0.02
86) Perylene-d12	15.46	264	284265	20.00	ng	-0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.47	112	1130070	77.57	ng	-0.01
7) Phenol-d6	6.50	99	1405235	73.71	ng	-0.02
23) Nitrobenzene-d5	7.42	82	836800	47.78	ng	-0.03
41) 2,4,6-Tribromophenol	10.69	330	213530	73.74	ng	-0.03
44) 2-Fluorobiphenyl	9.23	172	1252365	59.91	ng	-0.03
78) Terphenyl-d14	12.98	244	828908	49.21	ng	-0.02
Target Compounds						Qvalue
49) Dimethylphthalate	9.62	163	159422	5.64	ng	99
70) Phenanthrene	11.41	178	132670	4.72	ng	97
74) Fluoranthene	12.60	202	349771	13.43	ng	96
77) Pyrene	12.83	202	308314	10.37	ng	98
80) Benzo(a)anthracene	14.02	228	144896	6.86	ng	# 90
82) Chrysene	14.05	228	138709m	6.08	ng	
85) Indeno(1,2,3-cd)pyrene	16.87	276	70833m	3.02	ng	
87) Benzo(b)fluoranthene	15.05	252	127219m	7.74	ng	
88) Benzo(k)fluoranthene	15.06	252	64553m	4.66	ng	
89) Benzo(a)pyrene	15.40	252	103532	6.83	ng	# 89
91) Benzo(g,h,i)perylene	17.29	276	78427	6.18	ng	# 88

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

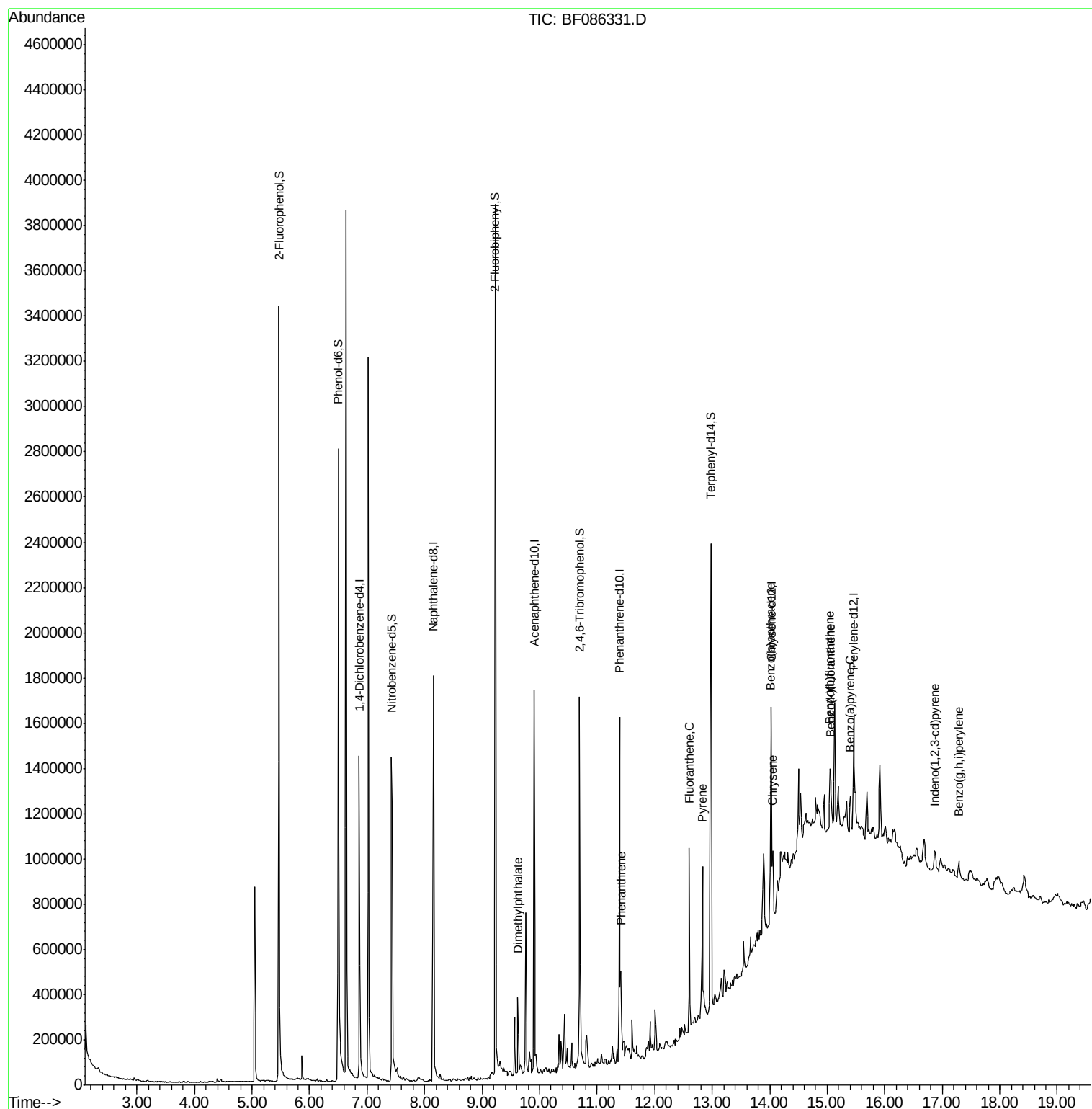
Data Path : Z:\HPCHEM1\BNA F\DATA\BF042016\
Data File : BF086331.D
Acq On : 21 Apr 2016 1:58
Operator : UM/SJ
Sample : H2601-17
Misc :
ALS Vial : 33 Sample Multiplier: 1

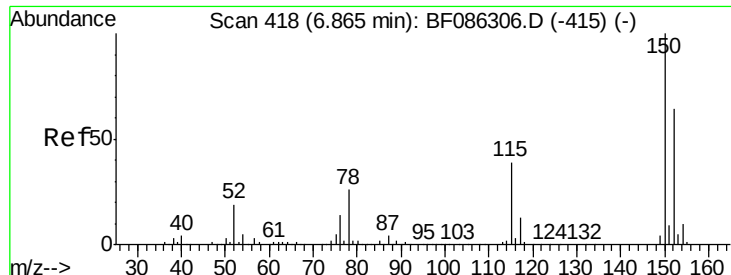
Instrument :
BNA_F
ClientSampleId :
RODNEY-AVE-PS(0-2)I

Manual Integrations
APPROVED

sohil
4/21/2016 7:56:34 PM

Quant Time: Apr 21 13:41:39 2016
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF042016.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Apr 20 15:45:26 2016
Response via : Initial Calibration





#1

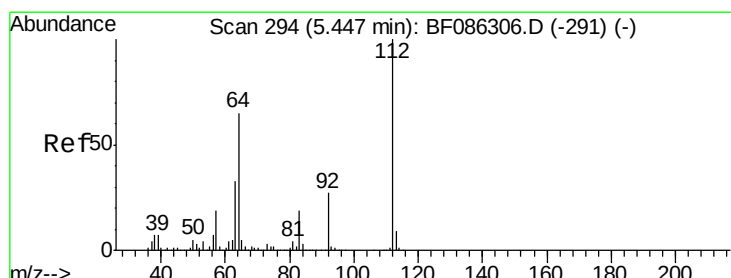
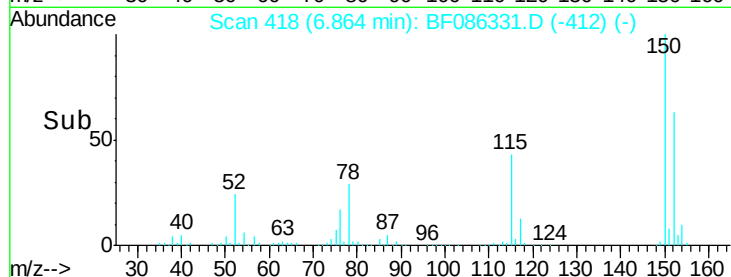
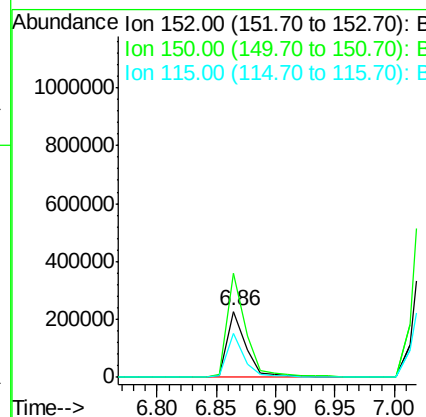
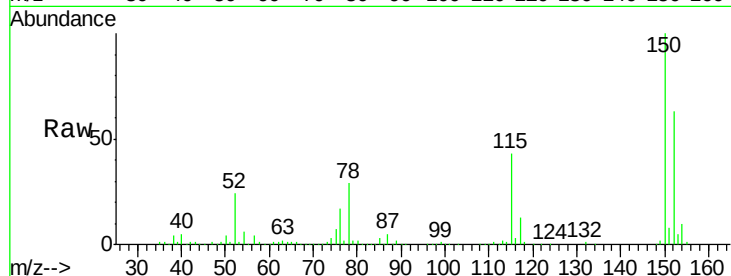
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 6.86 min Scan# 418
Delta R.T. -0.03 min
Lab File: BF086331.D
Acq: 21 Apr 2016 1:58

Instrument :
BNA_F
ClientSampleId :
RODNEY-AVE-PS(0-2)I

Tot Ion	Ratio	Lower	Upper
152	100		
150	159.0	124.1	186.1
115	67.6	43.9	65.9

Manual Integrations
APPROVED

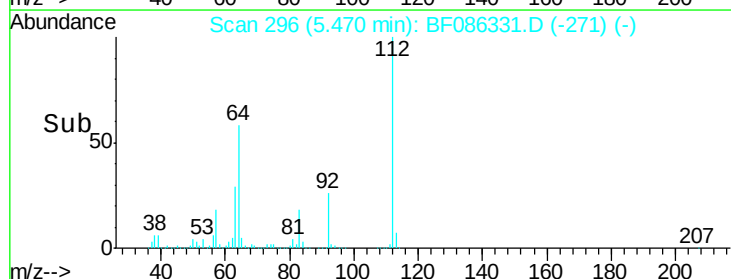
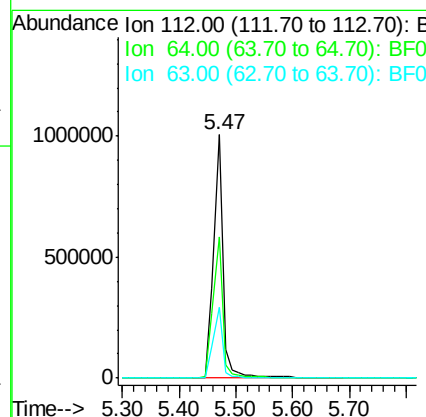
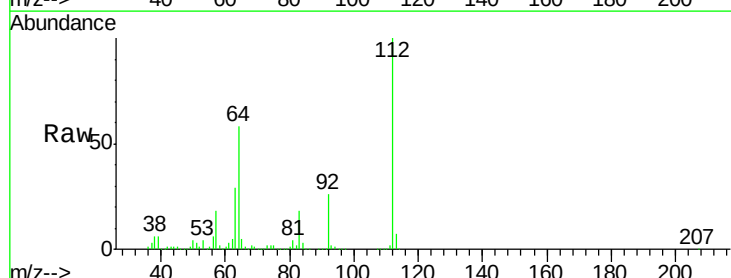
sohil
4/21/2016 7:56:34 PM

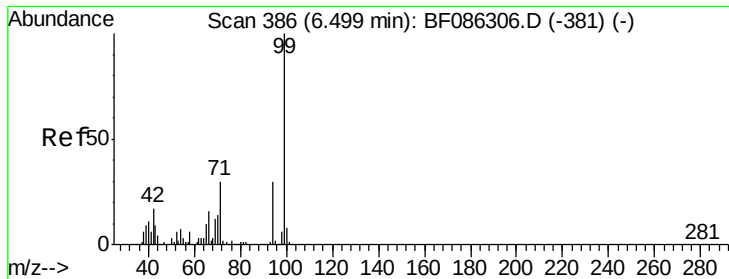


#5

2-Fluorophenol
Concen: 77.57 ng
RT: 5.47 min Scan# 296
Delta R.T. -0.01 min
Lab File: BF086331.D
Acq: 21 Apr 2016 1:58

Tgt Ion	Ratio	Lower	Upper
112	100		
64	57.9	48.1	72.1
63	29.3	25.5	38.3





#7

Phenol-d6

Concen: 73.71 ng

RT: 6.50 min Scan# 386

Delta R.T. -0.02 min

Lab File: BF086331.D

Acq: 21 Apr 2016 1:58

Instrument :

BNA_F

ClientSampleId :

RODNEY-AVE-PS(0-2)I

Tot Ion: 99 Resp: 1405235

Ion Ratio Lower Upper

99 100

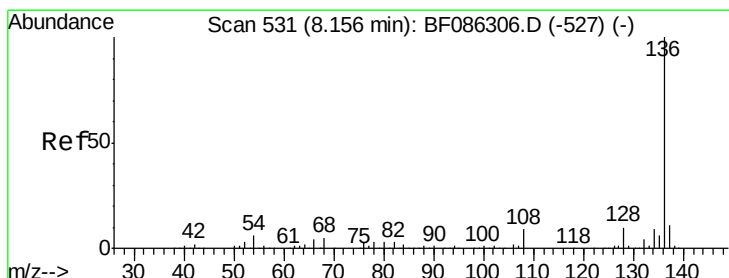
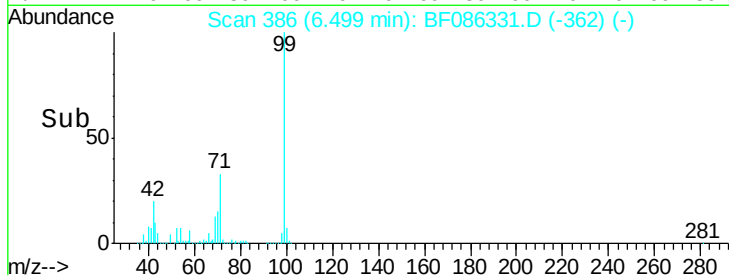
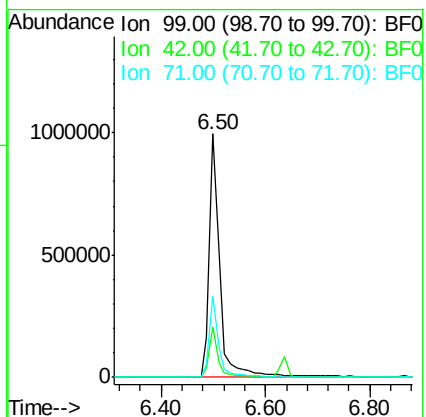
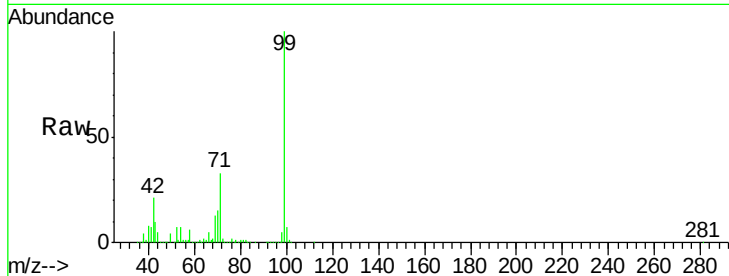
42 20.6 15.4 23.2

71 33.3 25.6 38.4

Manual Integrations
APPROVED

sohil

4/21/2016 7:56:34 PM



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 8.16 min Scan# 531

Delta R.T. -0.02 min

Lab File: BF086331.D

Acq: 21 Apr 2016 1:58

Tgt Ion: 136 Resp: 1003071

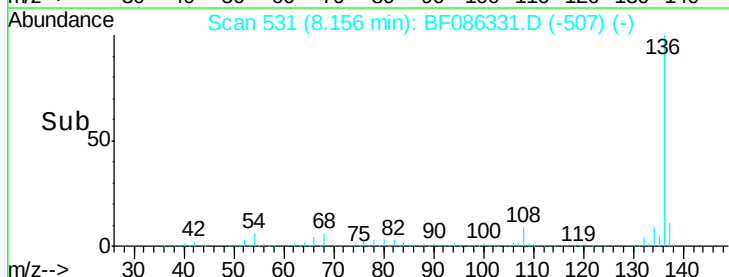
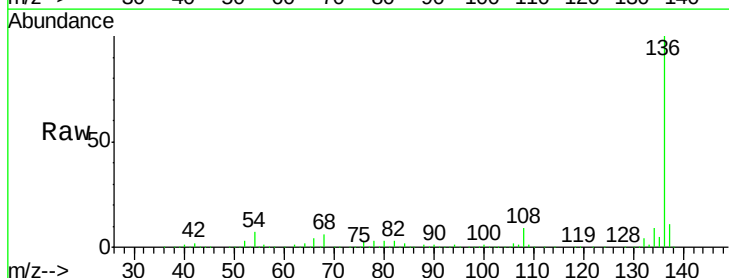
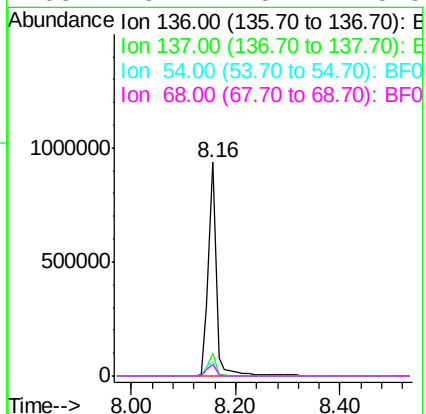
Ion Ratio Lower Upper

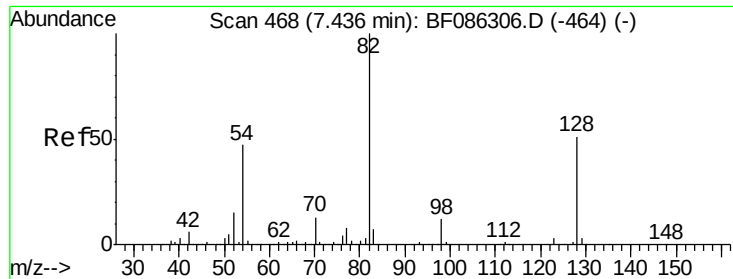
136 100

137 10.6 9.1 13.7

54 6.5 7.3 10.9#

68 5.7 5.7 8.5





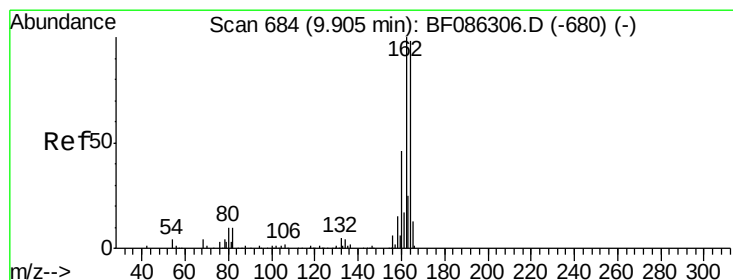
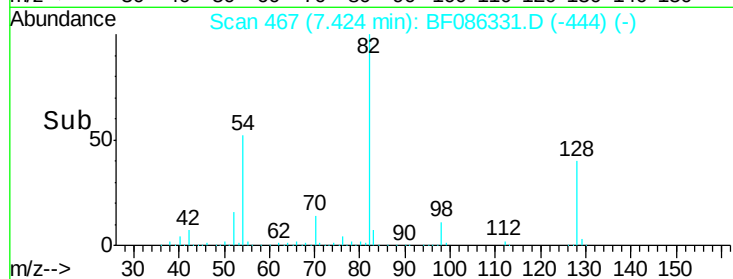
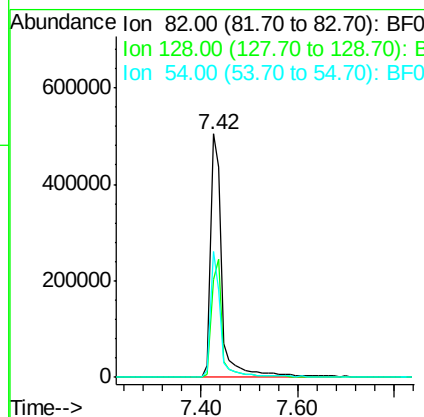
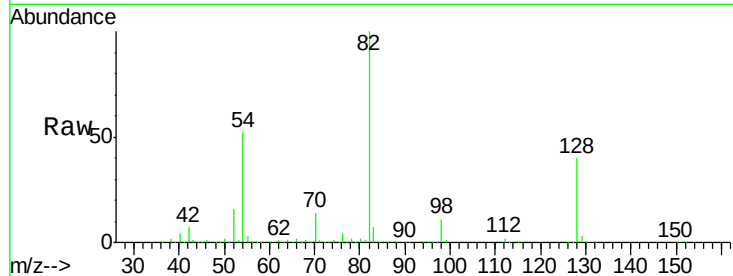
#23
 Nitrobenzene-d5
 Concen: 47.78 ng
 RT: 7.42 min Scan# 467
 Delta R.T. -0.03 min
 Lab File: BF086331.D
 Acq: 21 Apr 2016 1:58

Instrument :
 BNA_F
 ClientSampleId :
 RODNEY-AVE-PS(0-2)I

Tot Ion	82	Resp	836800
Ion Ratio	100	Lower	Upper
82	100		
128	40.0	35.4	53.2
54	51.6	43.4	65.0

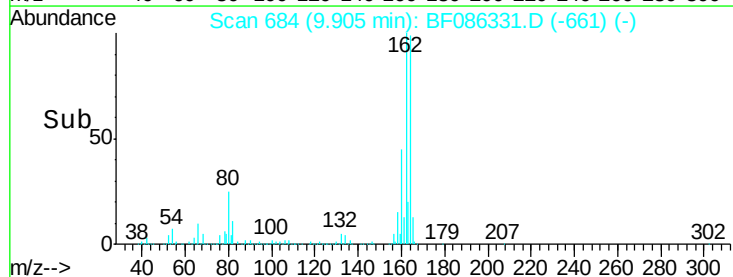
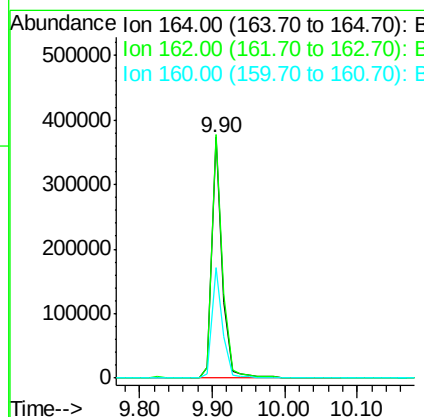
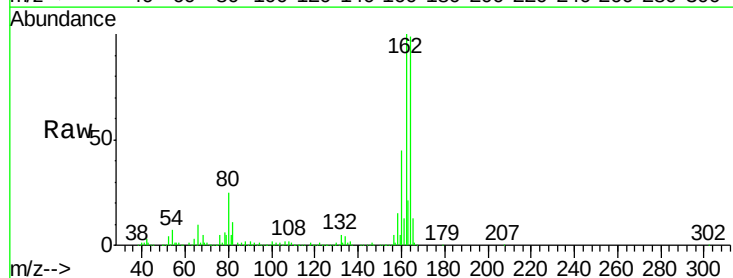
Manual Integrations
 APPROVED

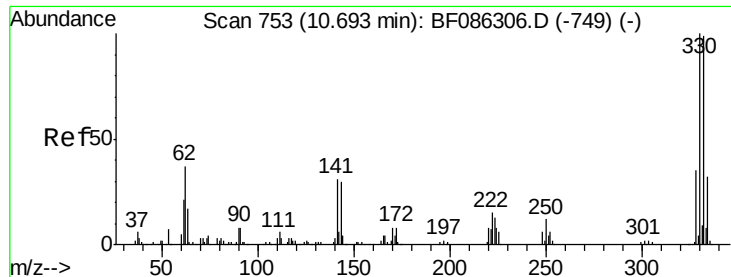
sohil
 4/21/2016 7:56:34 PM



#38
 Acenaphthene-d10
 Concen: 20.00 ng
 RT: 9.90 min Scan# 684
 Delta R.T. -0.03 min
 Lab File: BF086331.D
 Acq: 21 Apr 2016 1:58

Tgt Ion	164	Resp	371517
Ion Ratio	100	Lower	Upper
164	100		
162	101.0	82.8	124.2
160	45.9	38.9	58.3





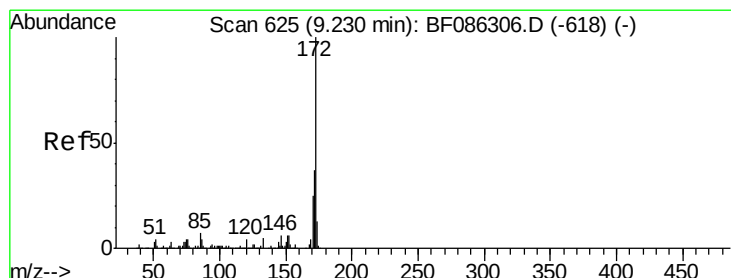
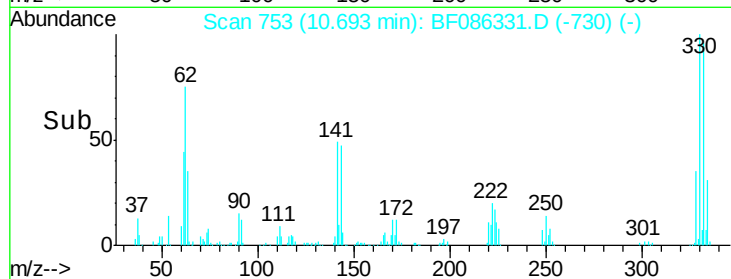
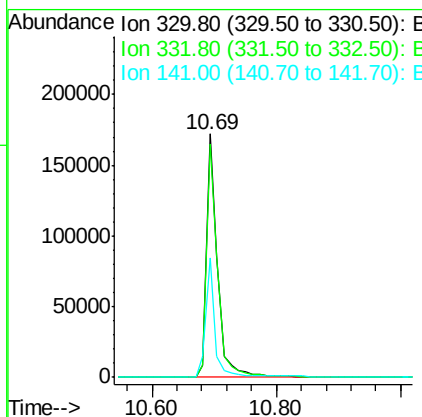
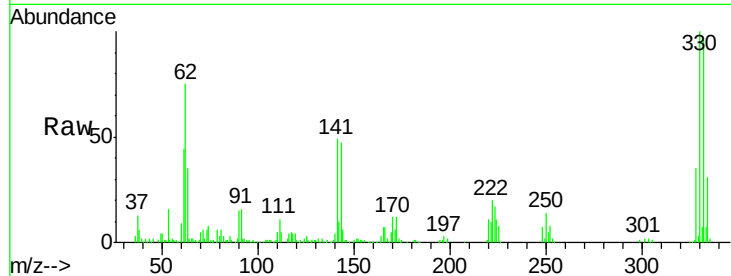
#41
 2,4,6-Tribromophenol
 Concen: 73.74 ng
 RT: 10.69 min Scan# 753
 Delta R.T. -0.03 min
 Lab File: BF086331.D
 Acq: 21 Apr 2016 1:58

Instrument :
 BNA_F
 ClientSampleId :
 RODNEY-AVE-PS(0-2)I

Tot Ion	Ratio	Resp	Lower	Upper
330	100	213530		
332	97.6	78.7	118.1	
141	39.9	28.6	42.8	

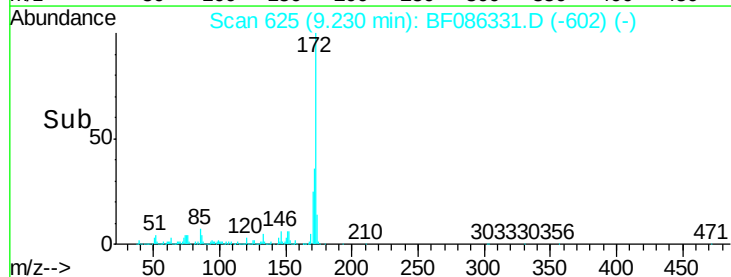
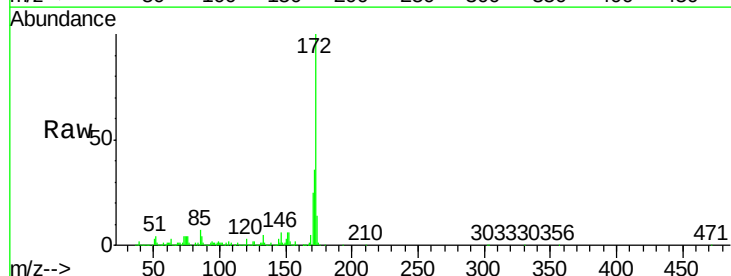
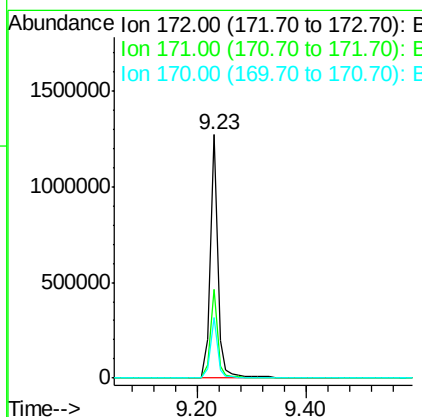
Manual Integrations
 APPROVED

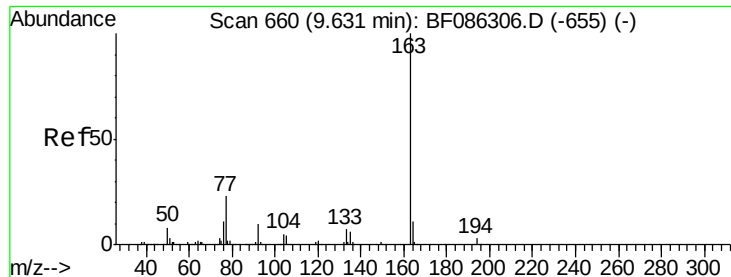
sohil
 4/21/2016 7:56:34 PM



#44
 2-Fluorobiphenyl
 Concen: 59.91 ng
 RT: 9.23 min Scan# 625
 Delta R.T. -0.03 min
 Lab File: BF086331.D
 Acq: 21 Apr 2016 1:58

Tgt Ion	Ratio	Resp	Lower	Upper
172	100	1252365		
171	36.3	29.1	43.7	
170	24.8	19.9	29.9	





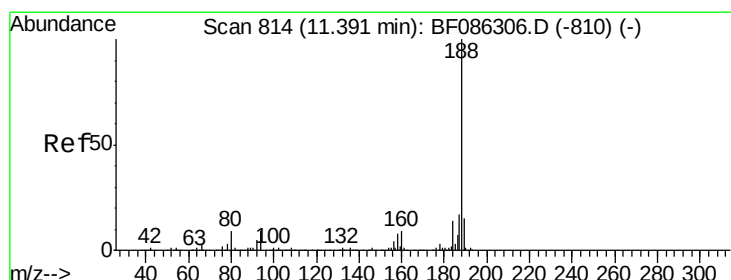
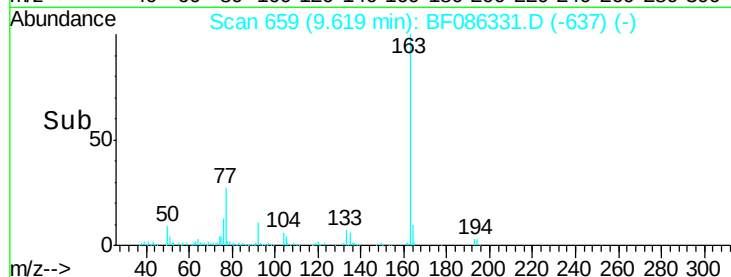
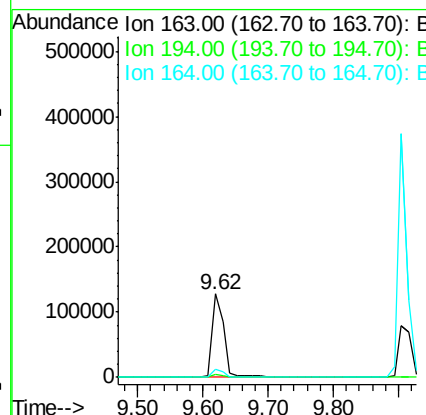
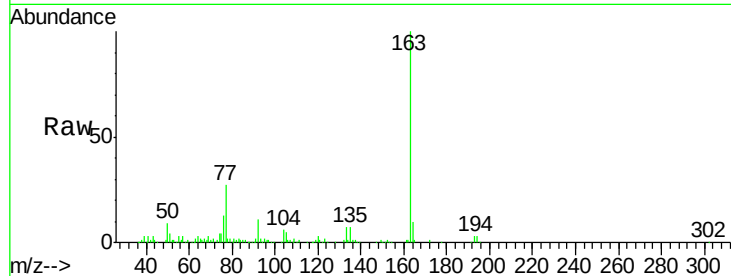
#49
Dimethylphthalate
Concen: 5.64 ng
RT: 9.62 min Scan# 659
Delta R.T. -0.05 min
Lab File: BF086331.D
Acq: 21 Apr 2016 1:58

Instrument :
BNA_F
ClientSampleId :
RODNEY-AVE-PS(0-2)I

Tot Ion:	163	Resp:	159422
Ion Ratio	Lower	Upper	
163	100		
194	3.2	2.8	4.2
164	10.3	8.4	12.6

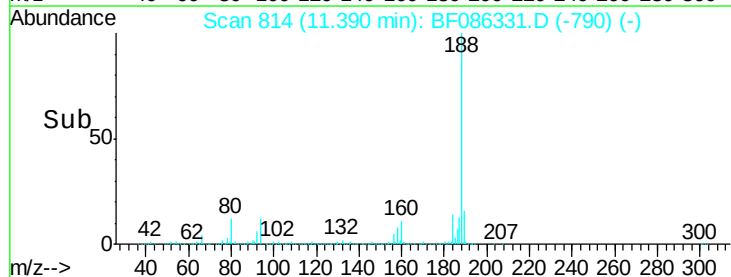
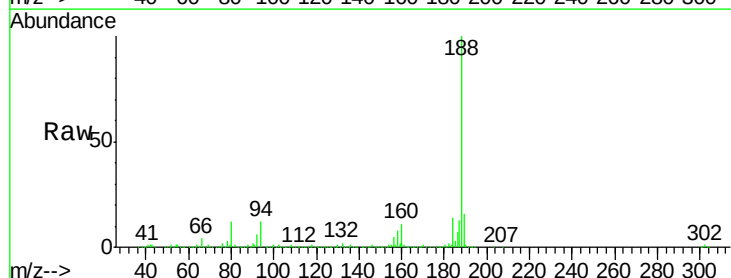
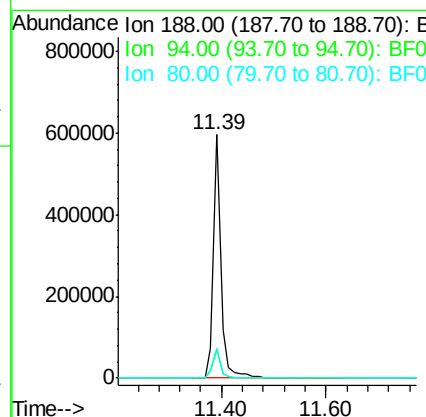
Manual Integrations
APPROVED

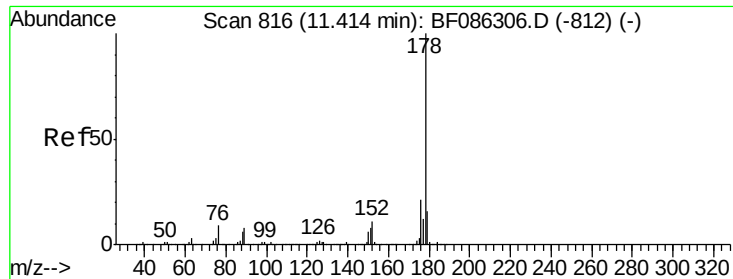
sohil
4/21/2016 7:56:34 PM



#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 11.39 min Scan# 814
Delta R.T. -0.02 min
Lab File: BF086331.D
Acq: 21 Apr 2016 1:58

Tgt Ion:	188	Resp:	592574
Ion Ratio	Lower	Upper	
188	100		
94	11.6	9.8	14.8
80	12.3	10.5	15.7





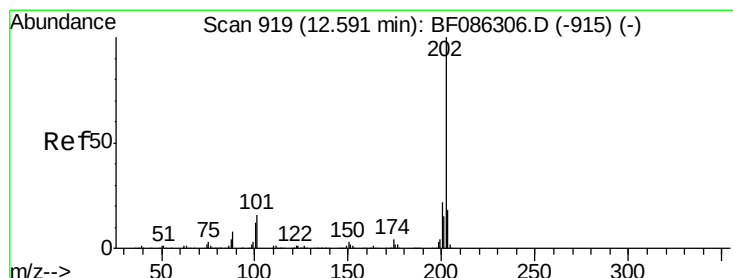
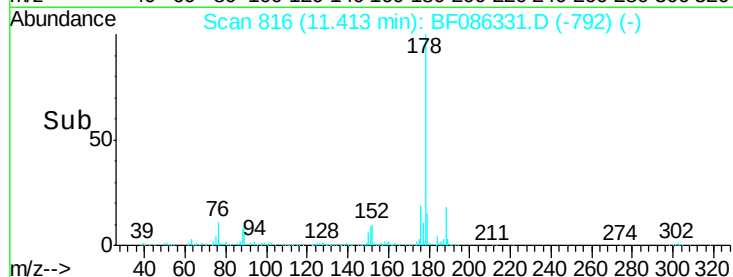
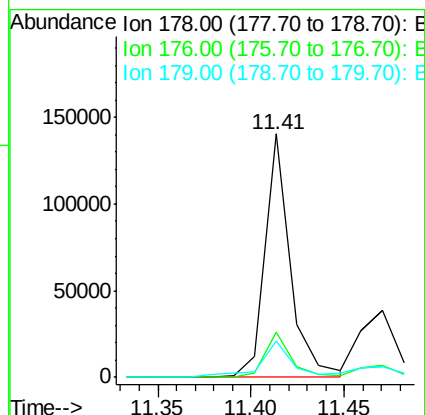
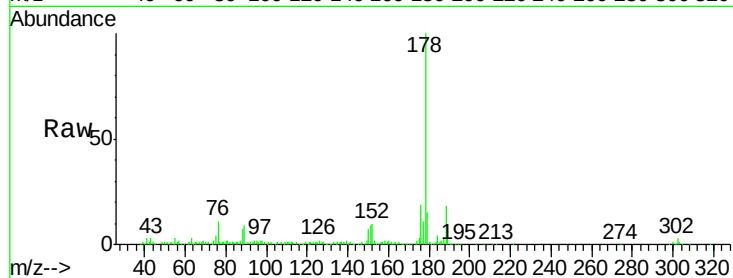
#70
Phenanthrene
Concen: 4.72 ng
RT: 11.41 min Scan# 816
Delta R.T. -0.02 min
Lab File: BF086331.D
Acq: 21 Apr 2016 1:58

Instrument :
BNA_F
ClientSampleId :
RODNEY-AVE-PS(0-2)I

Tot Ion:178	Resp:	132670
Ion Ratio	Lower	Upper
178	100	
176	18.8	16.3 24.5
179	15.1	13.0 19.6

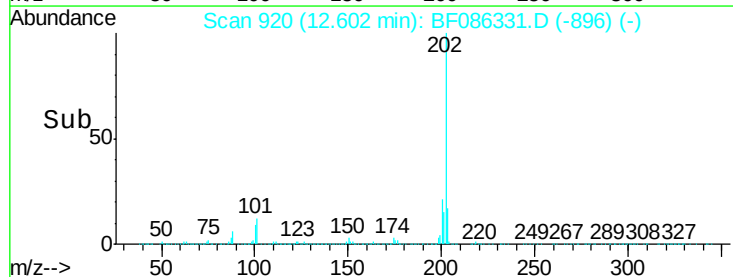
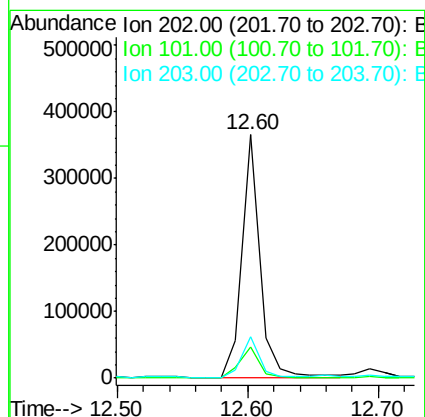
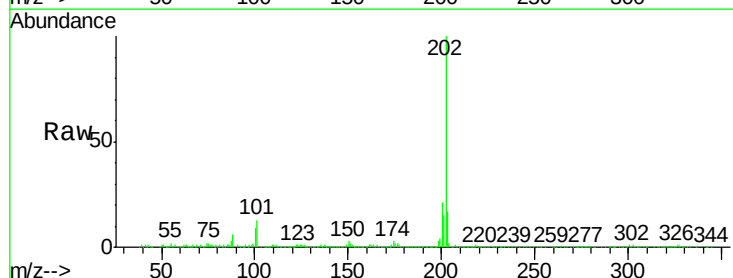
Manual Integrations
APPROVED

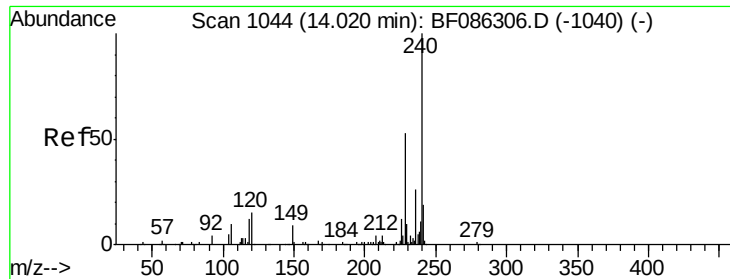
sohil
4/21/2016 7:56:34 PM



#74
Fluoranthene
Concen: 13.43 ng
RT: 12.60 min Scan# 920
Delta R.T. -0.02 min
Lab File: BF086331.D
Acq: 21 Apr 2016 1:58

Tgt Ion:202	Resp:	349771
Ion Ratio	Lower	Upper
202	100	
101	12.6	0.0 35.2
203	17.1	0.0 38.2





#75

Chrysene-d12

Concen: 20.00 ng

RT: 14.03 min Scan# 1045

Delta R.T. -0.02 min

Lab File: BF086331.D

Acq: 21 Apr 2016 1:58

Instrument :

BNA_F

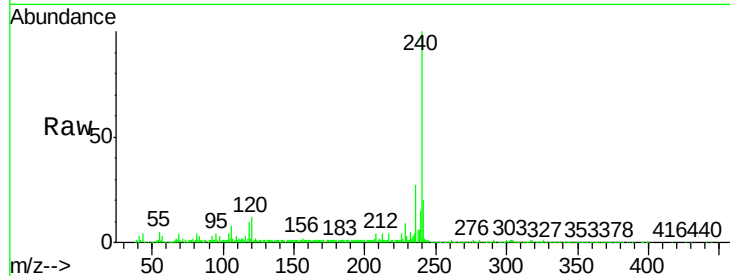
ClientSampleId :

RODNEY-AVE-PS(0-2)I

Tot Ion:	240	Resp:	400926
Ion Ratio	Lower	Upper	
240	100		
120	11.7	9.3	13.9
236	26.5	21.1	31.7

Manual Integrations
APPROVED

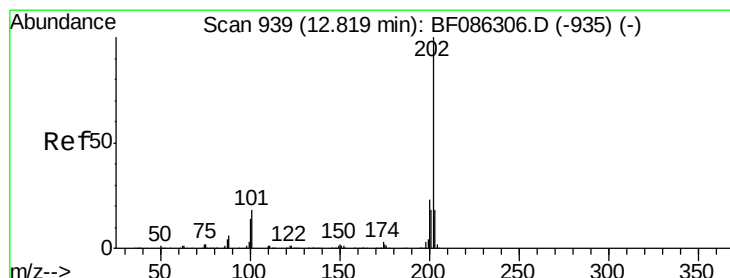
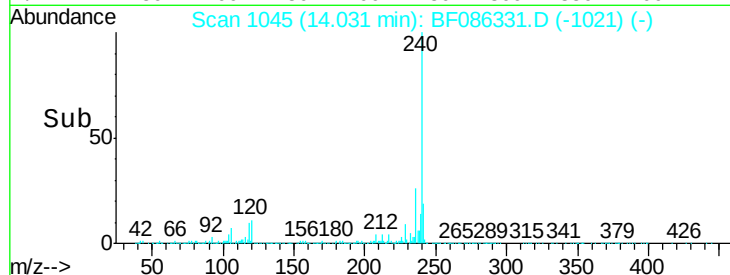
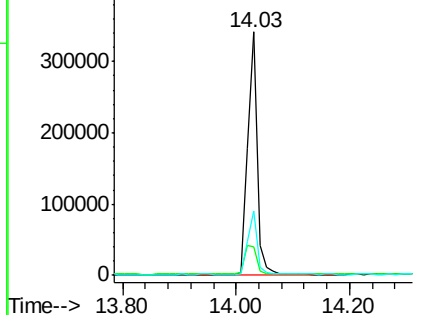
sohil
4/21/2016 7:56:34 PM



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: 10.37 ng

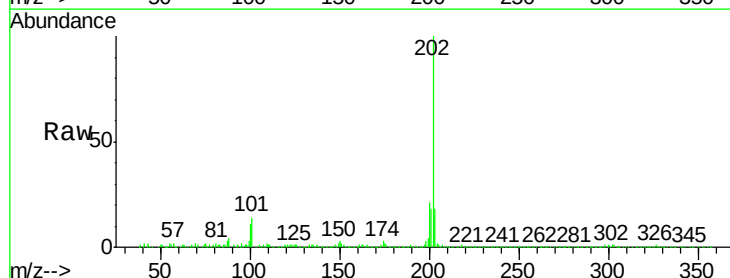
RT: 12.83 min Scan# 940

Delta R.T. -0.02 min

Lab File: BF086331.D

Acq: 21 Apr 2016 1:58

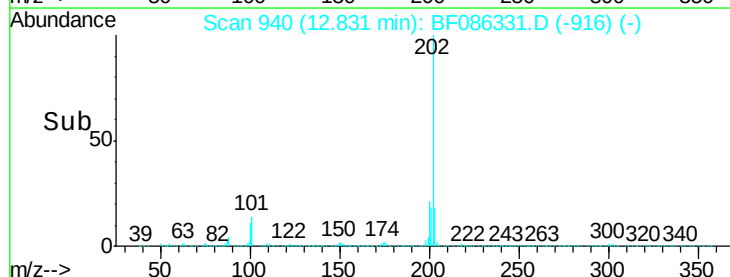
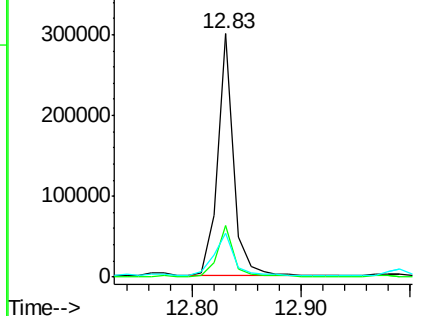
Tgt Ion:	202	Resp:	308314
Ion Ratio	Lower	Upper	
202	100		
200	21.2	18.3	27.5
203	18.2	14.9	22.3

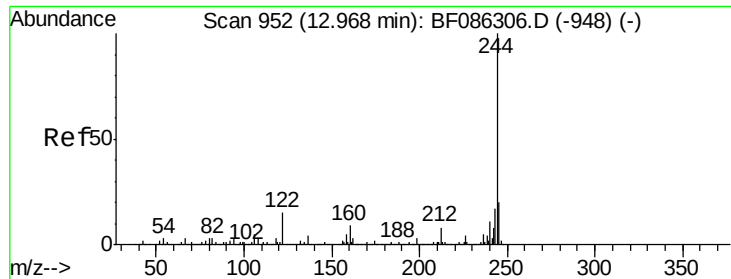


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#78

Terphenyl-d14

Concen: 49.21 ng

RT: 12.98 min Scan# 953

Delta R.T. -0.02 min

Lab File: BF086331.D

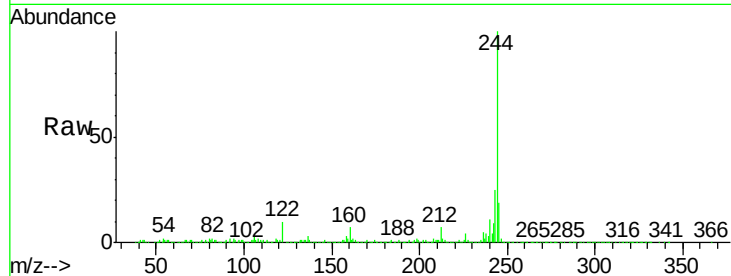
Acq: 21 Apr 2016 1:58

Instrument :

BNA_F

ClientSampleId :

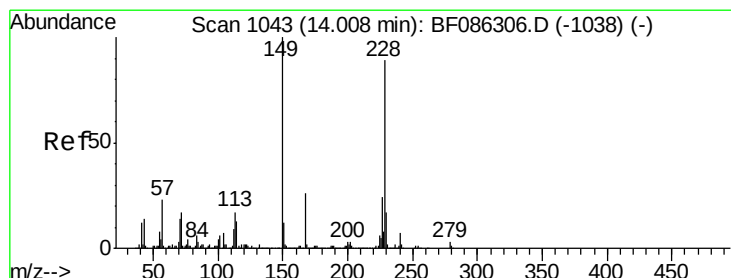
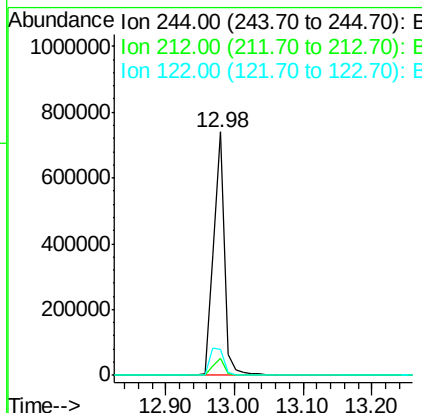
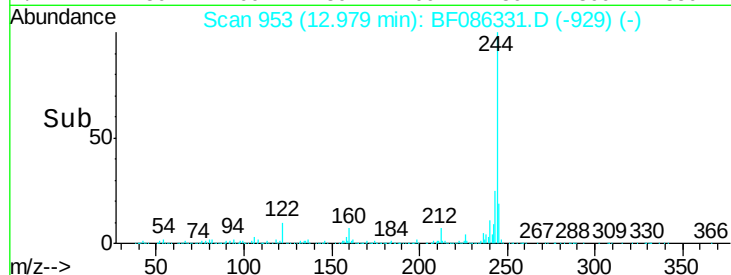
RODNEY-AVE-PS(0-2)I



Tot Ion	Ratio	Lower	Upper
244	100		
212	6.9	6.4	9.6
122	10.4	11.7	17.5#

Manual Integrations
APPROVED

sohil
4/21/2016 7:56:34 PM



#80

Benzo(a)anthracene

Concen: 6.86 ng

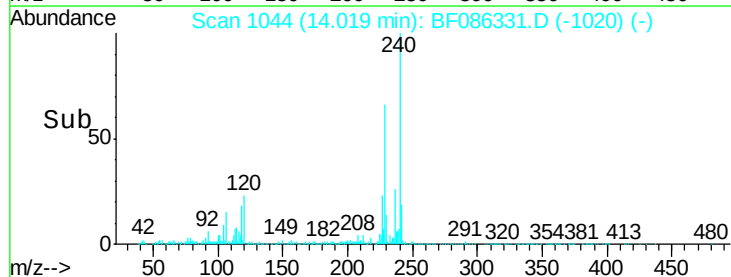
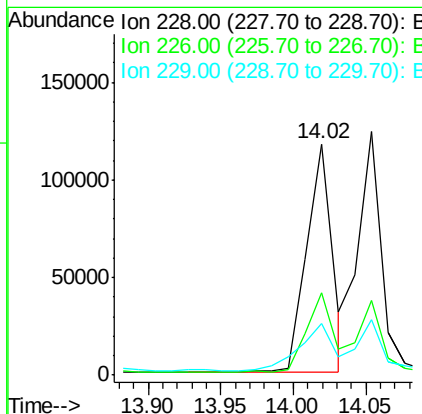
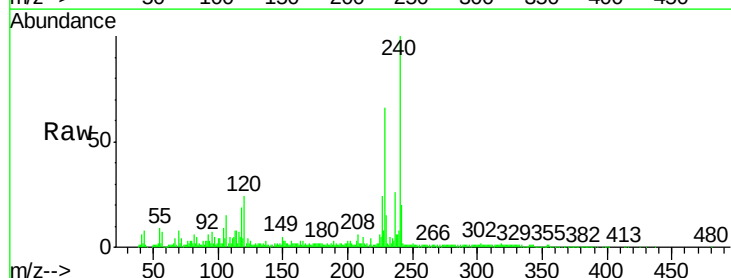
RT: 14.02 min Scan# 1044

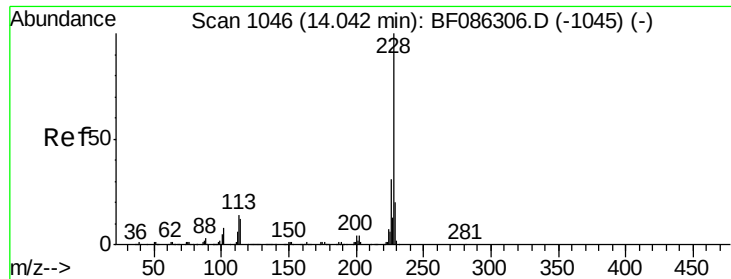
Delta R.T. -0.02 min

Lab File: BF086331.D

Acq: 21 Apr 2016 1:58

Tgt Ion	Ratio	Lower	Upper
228	100		
226	35.8	22.5	33.7#
229	22.2	16.2	24.2





#82

Chrysene

Concen: 6.08 ng/mL

RT: 14.05 min Scan# 1047

Delta R.T. -0.02 min

Lab File: BF086331.D

Acq: 21 Apr 2016 1:58

Instrument :

BNA_F

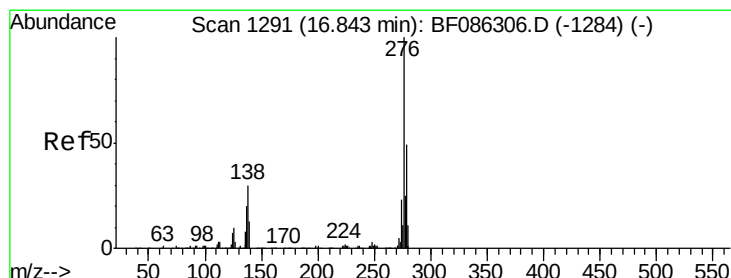
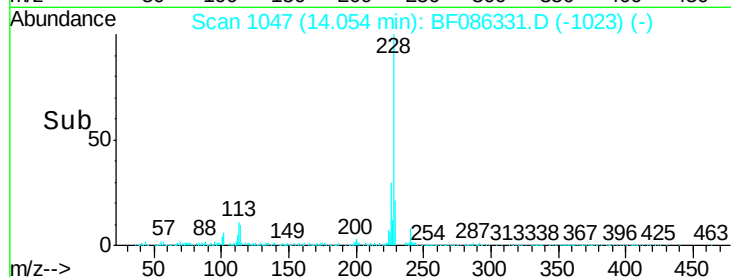
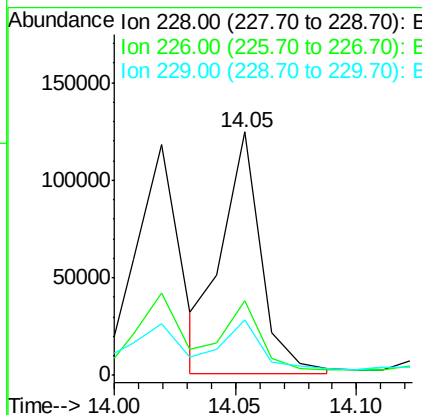
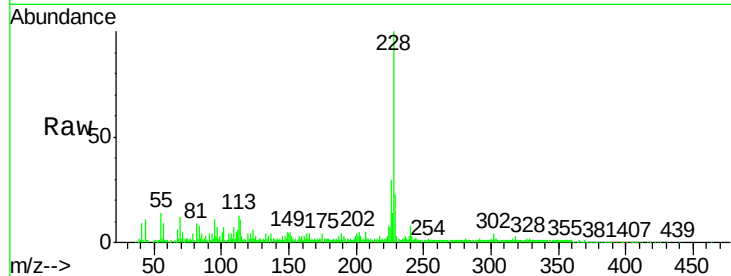
ClientSampleId :

RODNEY-AVE-PS(0-2)I

Tot Ion:	228	Resp:	138709
Ion Ratio	Lower	Upper	
228	100		
226	30.5	25.4	38.2
229	22.9	16.5	24.7

Manual Integrations
APPROVED

sohil
4/21/2016 7:56:34 PM



#85

Indeno(1,2,3-cd)pyrene

Concen: 3.02 ng/mL

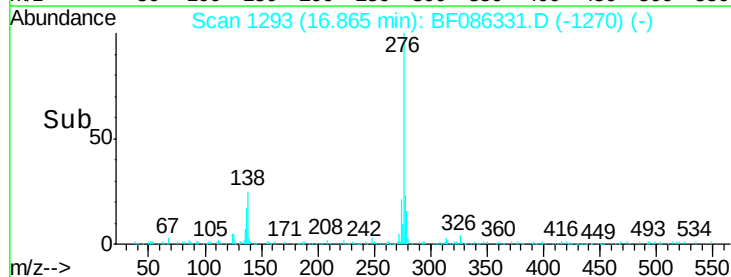
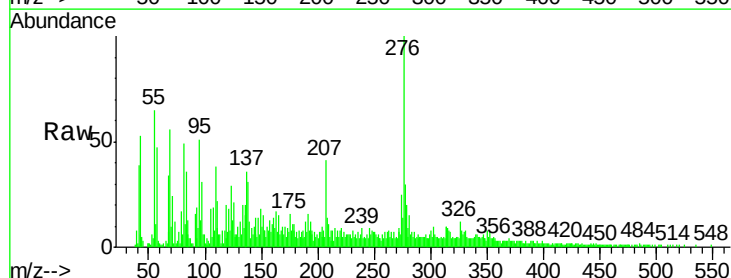
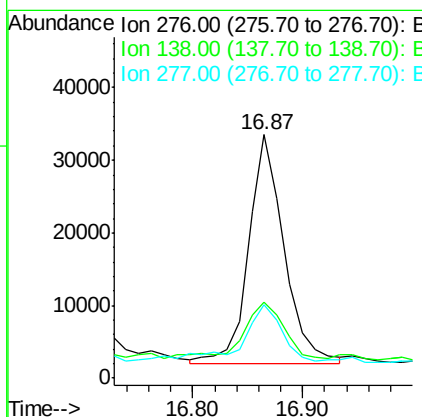
RT: 16.87 min Scan# 1293

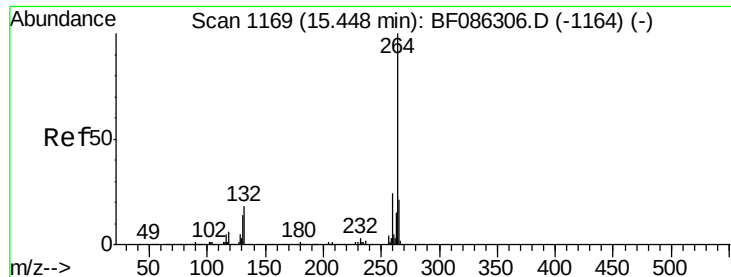
Delta R.T. -0.03 min

Lab File: BF086331.D

Acq: 21 Apr 2016 1:58

Tgt Ion:	276	Resp:	70833
Ion Ratio	Lower	Upper	
276	100		
138	6.7	23.8	35.6#
277	5.3	20.2	30.2#





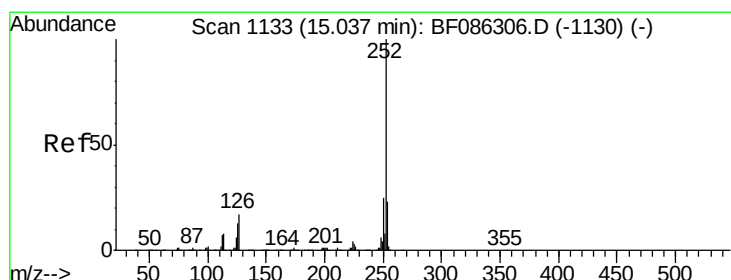
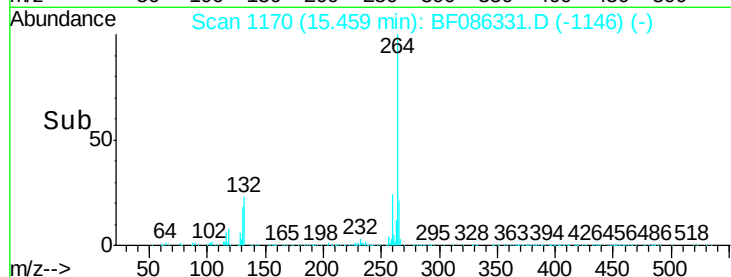
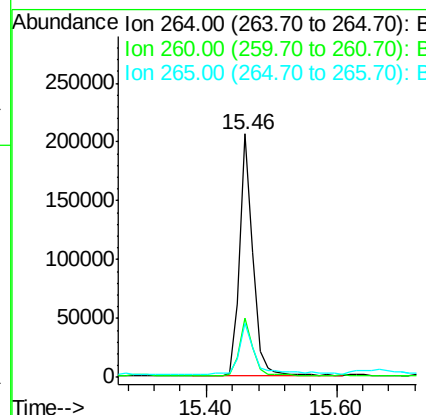
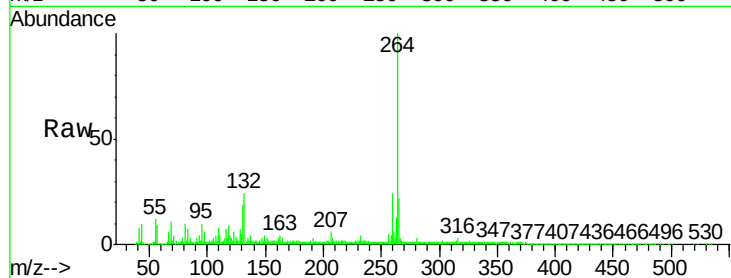
#86
Pervlene-d12
Concen: 20.00 ng
RT: 15.46 min Scan# 1170
Delta R.T. -0.02 min
Lab File: BF086331.D
Acq: 21 Apr 2016 1:58

Instrument :
BNA_F
ClientSampleId :
RODNEY-AVE-PS(0-2)I

Tot Ion	Ratio	Lower	Upper
264	100		
260	24.3	20.0	30.0
265	22.1	17.4	26.0

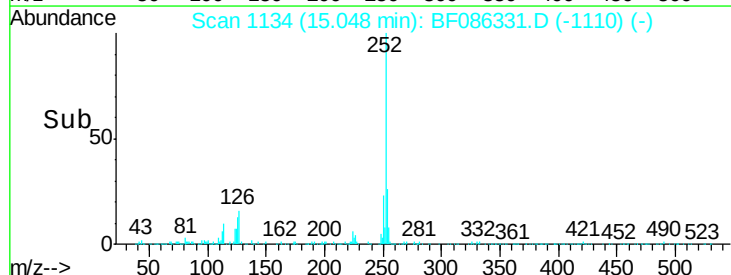
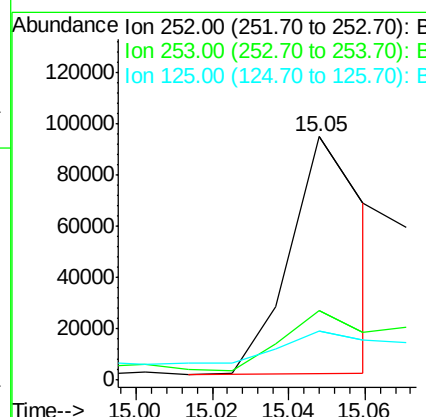
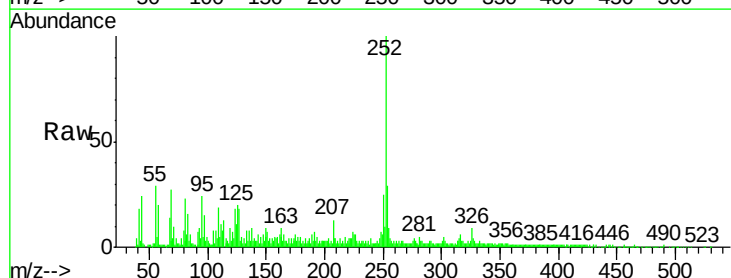
Manual Integrations
APPROVED

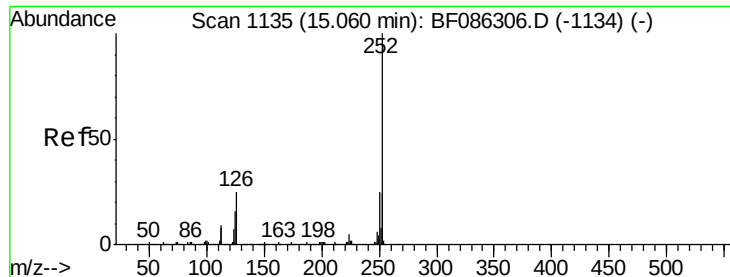
sohil
4/21/2016 7:56:34 PM



#87
Benzo(b)fluoranthene
Concen: 7.74 ng m
RT: 15.05 min Scan# 1134
Delta R.T. -0.02 min
Lab File: BF086331.D
Acq: 21 Apr 2016 1:58

Tgt Ion	Ratio	Lower	Upper
252	100		
253	28.6	17.7	26.5#
125	20.0	10.3	15.5#





#88

Benzo(k)fluoranthene

Concen: 4.66 ng m

RT: 15.06 min Scan# 1135

Delta R.T. -0.05 min

Lab File: BF086331.D

Acq: 21 Apr 2016 1:58

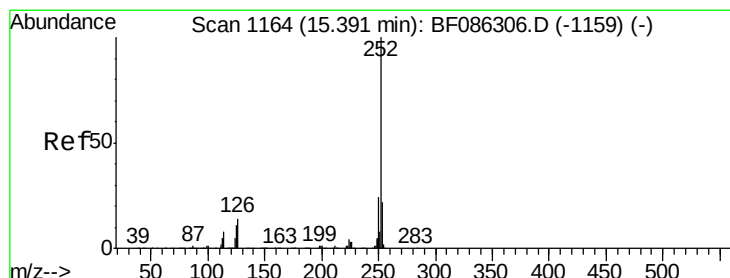
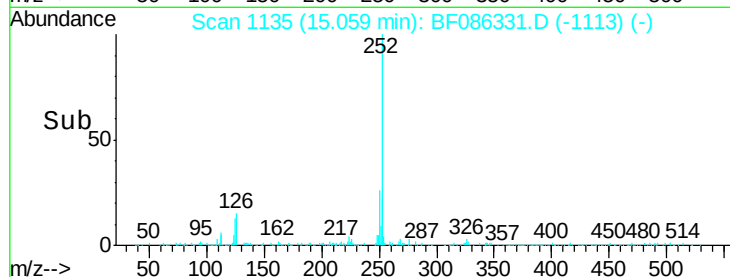
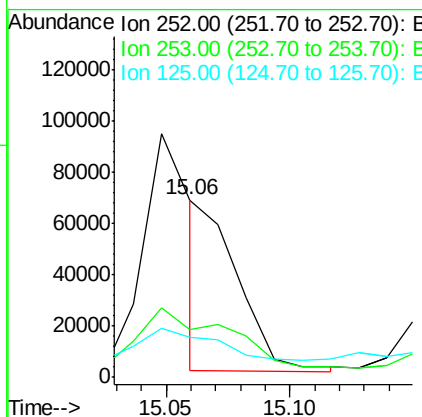
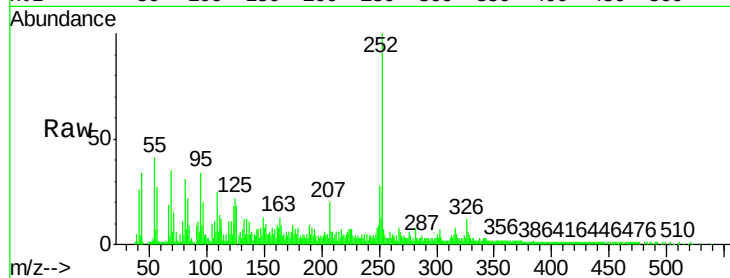
Instrument :
BNA_F

ClientSampleId :
RODNEY-AVE-PS(0-2)I

Tot Ion	Ratio	Lower	Upper
252	100		
253	26.8	17.5	26.3#
125	22.5	7.8	11.6#

Manual Integrations
APPROVED

sohil
4/21/2016 7:56:34 PM



#89

Benzo(a)pyrene

Concen: 6.83 ng

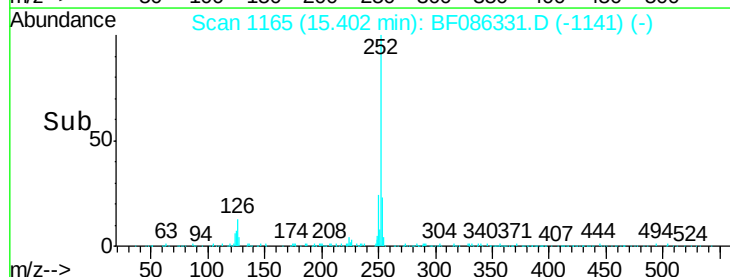
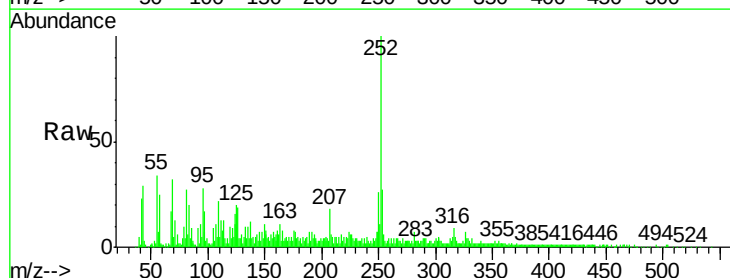
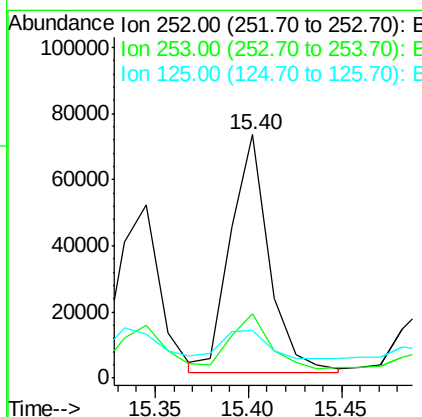
RT: 15.40 min Scan# 1165

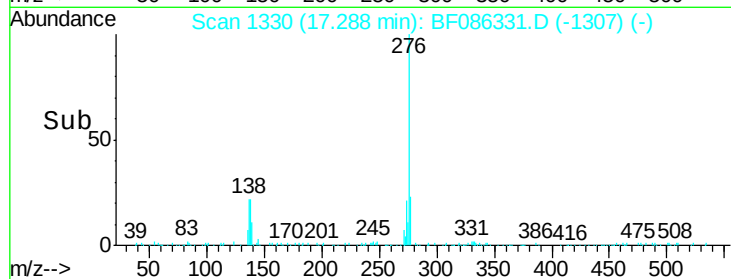
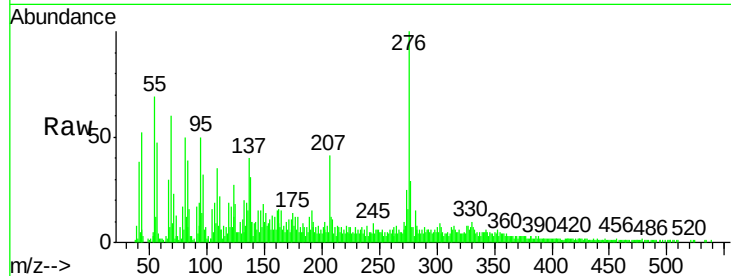
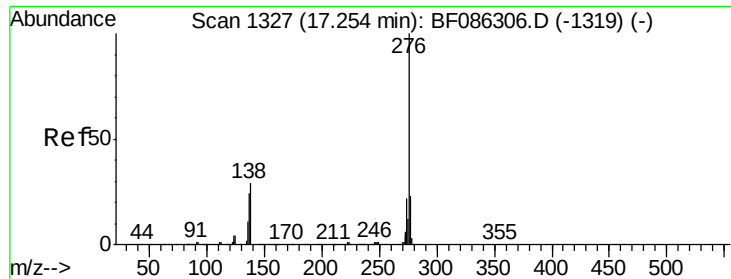
Delta R.T. -0.02 min

Lab File: BF086331.D

Acq: 21 Apr 2016 1:58

Tgt Ion	Ratio	Lower	Upper
252	100		
253	26.7	17.8	26.8
125	19.8	11.2	16.8#





#91

Benzo(a,h,i)perylene

Concen: 6.18 ng

RT: 17.29 min Scan# 1330

Delta R.T. -0.03 min

Lab File: BF086331.D

Acq: 21 Apr 2016 1:58

Instrument :

BNA_F

ClientSampleId :

RODNEY-AVE-PS(0-2)I

Tot Ion: 276 Resp: 78427

Ion Ratio Lower Upper

276 100

277 28.8 19.0 28.6#

138 31.0 19.6 29.4#

Manual Integrations
APPROVED

sohil
4/21/2016 7:56:34 PM

