

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF062316\
 Data File : BF088300.D
 Acq On : 23 Jun 2016 20:45
 Operator : UM/SJ
 Sample : H3467-03RE
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 HF-4-WC-3RE

Manual Integrations
 APPROVED

Sohil
 6/24/2016 8:28:14 AM

Quant Time: Jun 24 03:12:44 2016
 Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF060716.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Jun 24 01:47:17 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.59	152	109331	20.00	ng	0.00
21) Naphthalene-d8	7.88	136	434601	20.00	ng	0.00
38) Acenaphthene-d10	9.63	164	197533	20.00	ng	0.00
63) Phenanthrene-d10	11.11	188	376053	20.00	ng	0.00
75) Chrysene-d12	13.74	240	252427	20.00	ng	0.00
86) Perylene-d12	15.09	264	218989	20.00	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.20	112	645580	100.95	ng	0.01
7) Phenol-d6	6.27	99	859792	110.93	ng	-0.01
23) Nitrobenzene-d5	7.18	82	516459	69.39	ng	0.00
41) 2,4,6-Tribromophenol	10.42	330	175243	84.02	ng	-0.01
44) 2-Fluorobiphenyl	8.96	172	901396	70.76	ng	-0.01
78) Terphenyl-d14	12.69	244	792181	71.41	ng	-0.01
Target Compounds						Qvalue
49) Dimethylphthalate	9.36	163	192464	13.45	ng	99
70) Phenanthrene	11.13	178	242356	12.28	ng	97
71) Anthracene	11.19	178	68876	3.46	ng	99
72) Carbazole	11.35	167	48732	2.62	ng	99
74) Fluoranthene	12.31	202	395246	18.98	ng	98
77) Pyrene	12.54	202	322968	17.24	ng	99
80) Benzo(a)anthracene	13.73	228	153164m	10.65	ng	
82) Chrysene	13.76	228	133872m	9.89	ng	
85) Indeno(1,2,3-cd)pyrene	16.35	276	52037	4.14	ng	# 100
87) Benzo(b)fluoranthene	14.73	252	133626m	8.75	ng	
88) Benzo(k)fluoranthene	14.75	252	47612m	4.14	ng	
89) Benzo(a)pyrene	15.04	252	92835	7.52	ng	97
91) Benzo(g,h,i)perylene	16.73	276	47684	4.04	ng	98

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

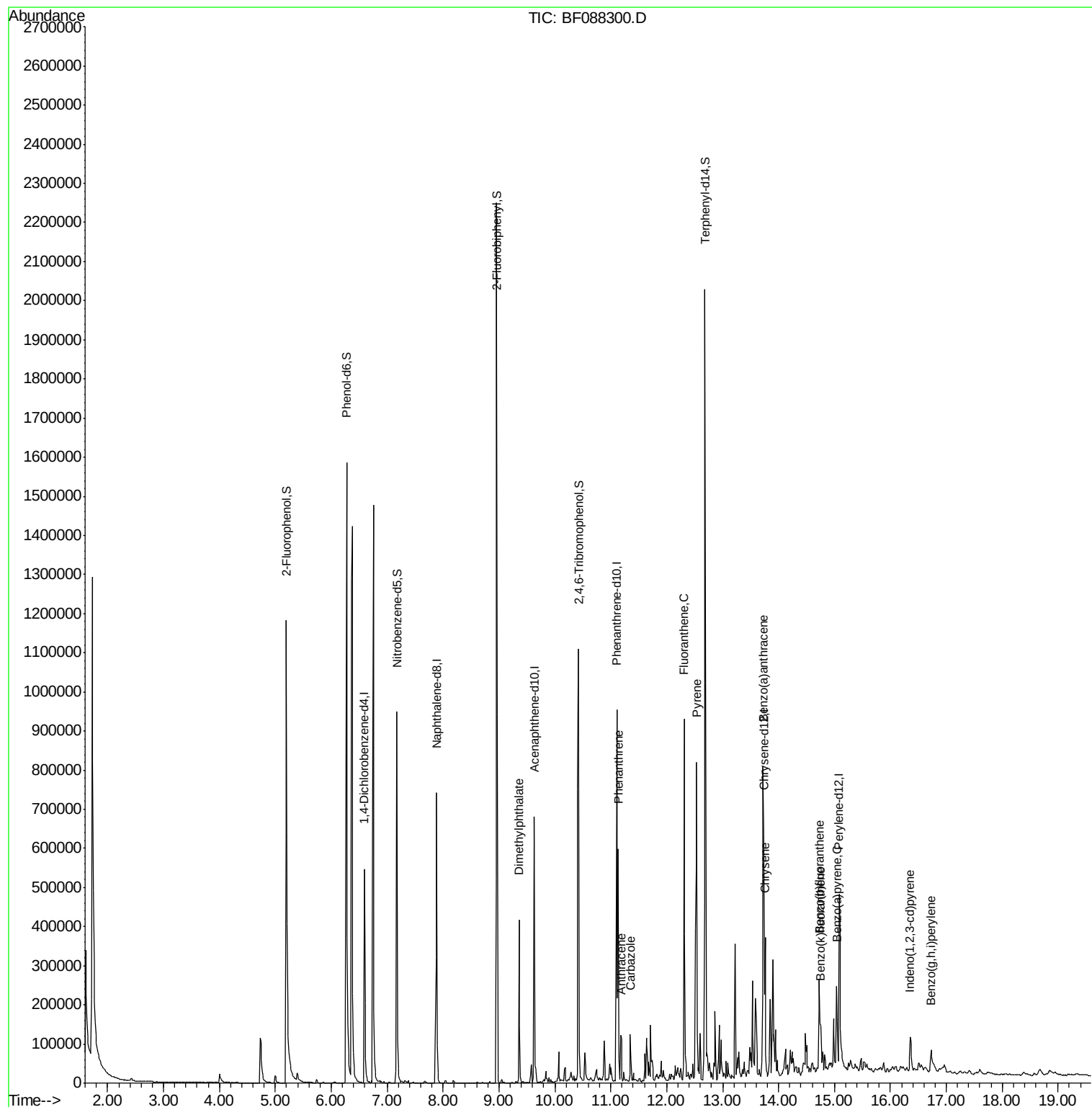
Data Path : Z:\HPCHEM1\BNA_F\DATA\BF062316\
Data File : BF088300.D
Acq On : 23 Jun 2016 20:45
Operator : UM/SJ
Sample : H3467-03RE
Misc :
ALS Vial : 7 Sample Multiplier: 1

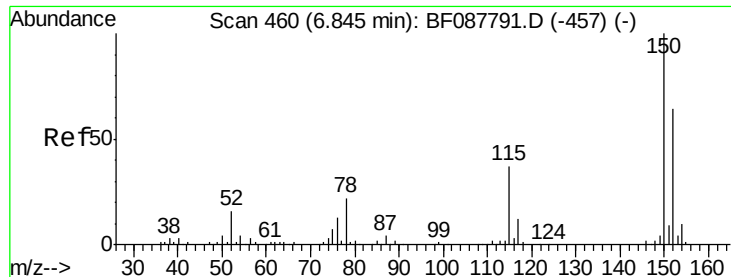
Instrument :
BNA_F
ClientSampleId :
HF-4-WC-3RE

Manual Integrations
APPROVED

Sohil
6/24/2016 8:28:14 AM

Quant Time: Jun 24 03:12:44 2016
Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF060716.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 24 01:47:17 2016
Response via : Initial Calibration





#1

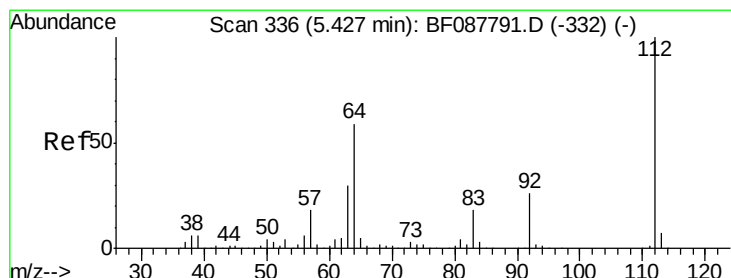
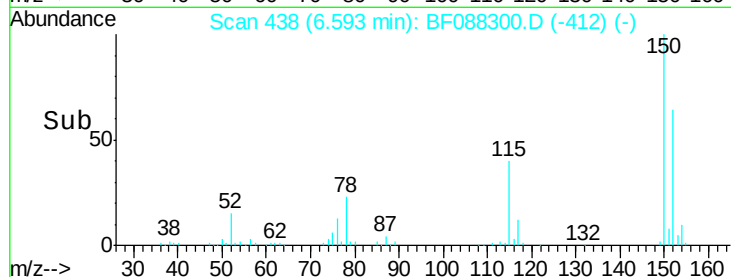
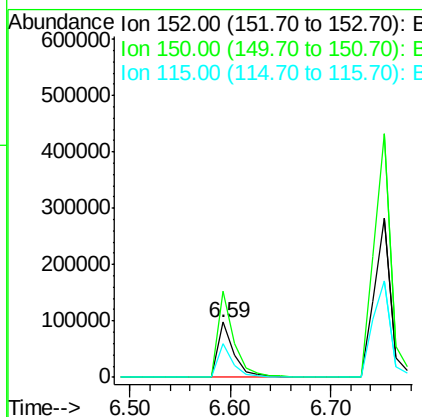
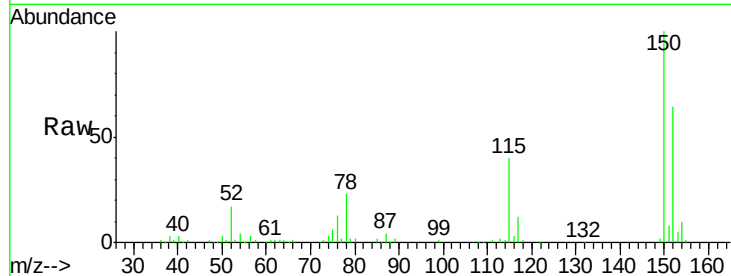
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 6.59 min Scan# 438
Delta R.T. -0.00 min
Lab File: BF088300.D
Acq: 23 Jun 2016 20:45

Instrument :
BNA_F
ClientSampleId :
HF-4-WC-3RE

Tgt Ion	Ratio	Resp	Lower	Upper
152	100	109331		
150	156.9	123.8	185.6	
115	62.3	39.6	59.4	

Manual Integrations
APPROVED

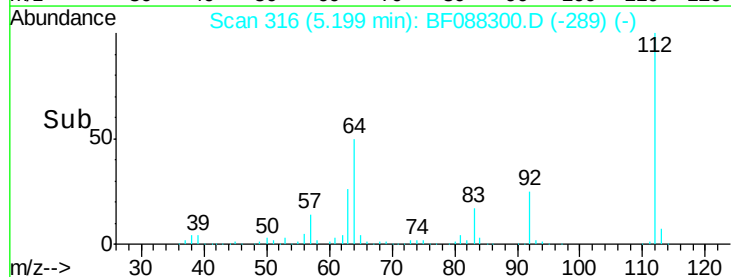
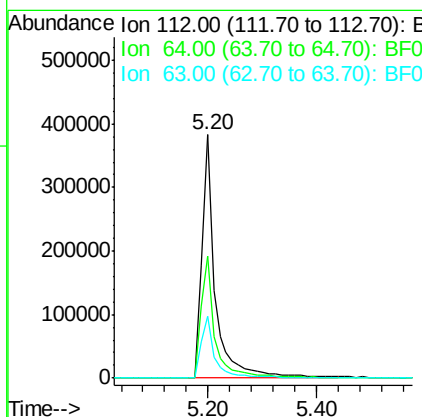
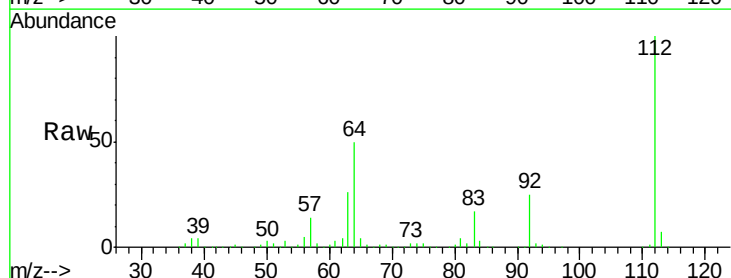
Sohil
6/24/2016 8:28:14 AM

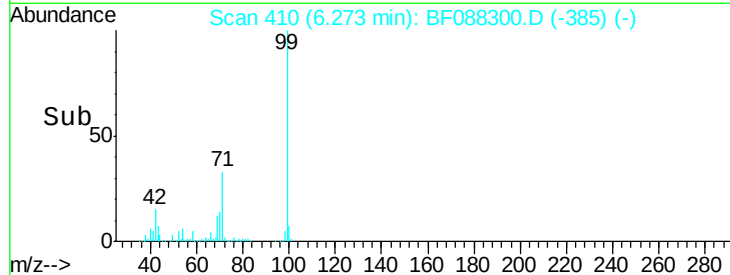
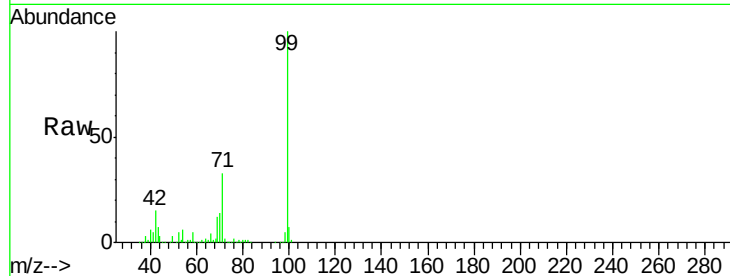
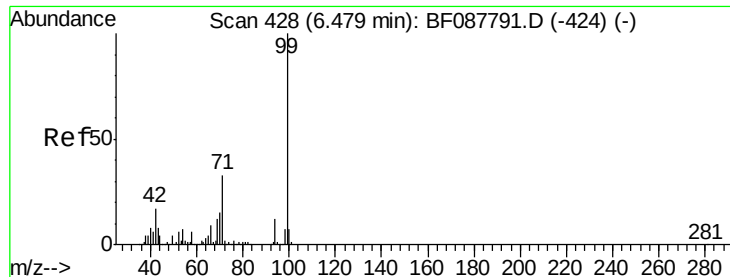


#5

2-Fluorophenol
Concen: 100.95 ng
RT: 5.20 min Scan# 316
Delta R.T. 0.01 min
Lab File: BF088300.D
Acq: 23 Jun 2016 20:45

Tgt Ion	Ratio	Resp	Lower	Upper
112	100	645580		
64	50.0	42.2	63.2	
63	25.6	21.8	32.8	





#7

Phenol-d6

Concen: 110.93 ng

RT: 6.27 min Scan# 410

Delta R.T. -0.01 min

Lab File: BF088300.D

Acq: 23 Jun 2016 20:45

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
99	100		859792		
42	14.5	12.2	18.2		
71	33.4	23.4	35.0		

Instrument :

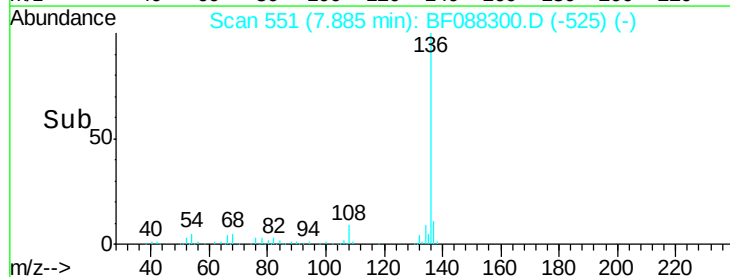
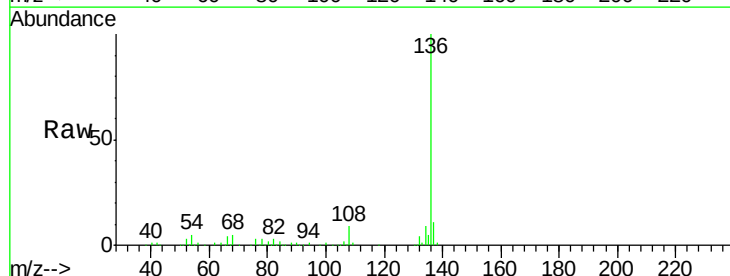
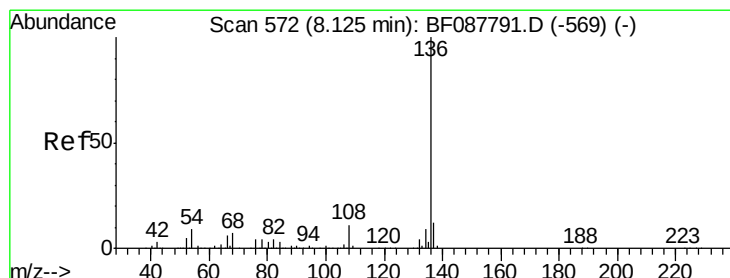
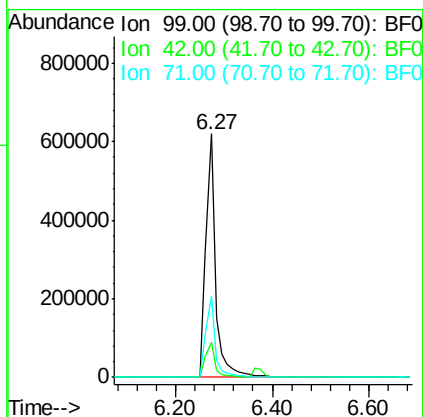
BNA_F

ClientSampleId :

HF-4-WC-3RE

Manual Integrations
APPROVED

Sohil
6/24/2016 8:28:14 AM



#21

Naphthalene-d8

Concen: 20.00 ng

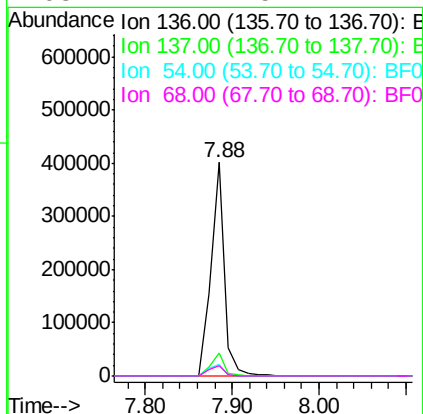
RT: 7.88 min Scan# 551

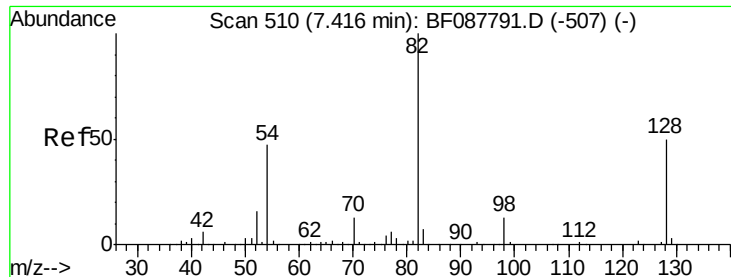
Delta R.T. 0.00 min

Lab File: BF088300.D

Acq: 23 Jun 2016 20:45

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
136	100		434601		
137	10.9	9.1	13.7		
54	5.3	6.6	10.0#		
68	4.7	5.1	7.7#		





#23

Nitrobenzene-d5

Concen: 69.39 ng

RT: 7.18 min Scan# 489

Delta R.T. -0.00 min

Lab File: BF088300.D

Acq: 23 Jun 2016 20:45

Instrument :

BNA_F

ClientSampleId :

HF-4-WC-3RE

Tgt Ion: 82 Resp: 516459
Ion Ratio Lower Upper

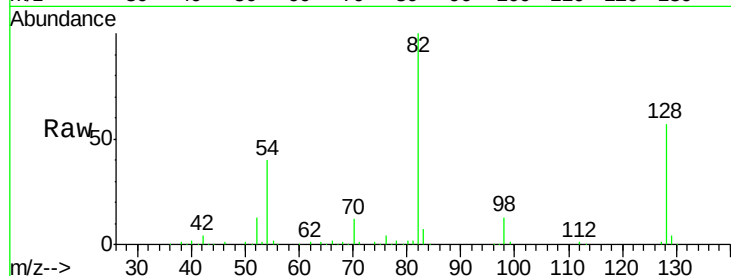
82 100

128 57.3 35.9 53.9#

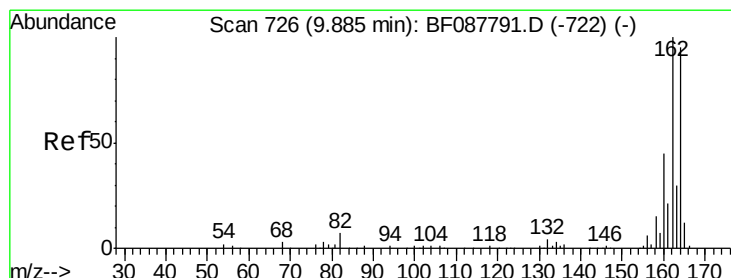
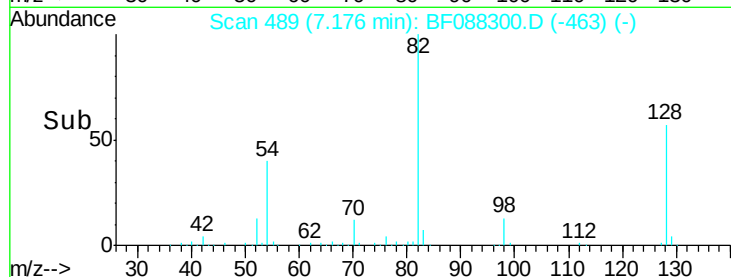
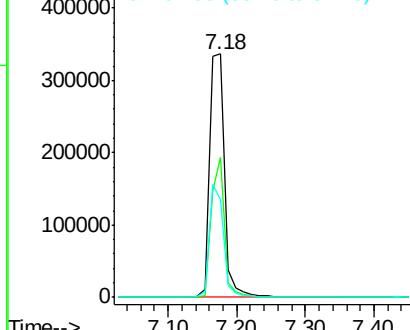
54 40.0 40.9 61.3#

Manual Integrations
APPROVED

Sohil
6/24/2016 8:28:14 AM



Abundance Ion 82.00 (81.70 to 82.70): BF0
Ion 128.00 (127.70 to 128.70): E
Ion 54.00 (53.70 to 54.70): BF0



#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.63 min Scan# 704

Delta R.T. -0.00 min

Lab File: BF088300.D

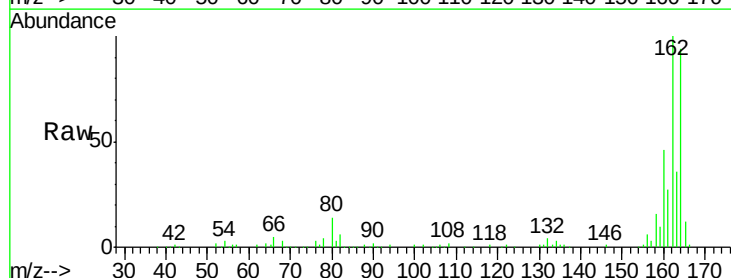
Acq: 23 Jun 2016 20:45

Tgt Ion:164 Resp: 197533
Ion Ratio Lower Upper

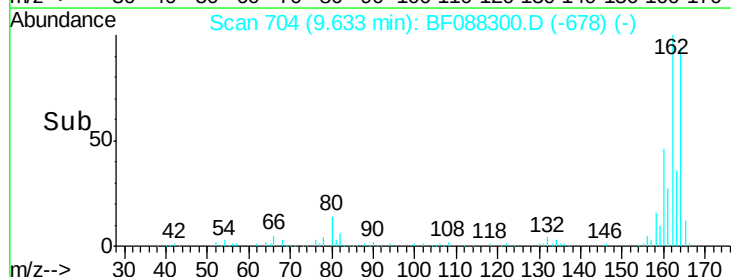
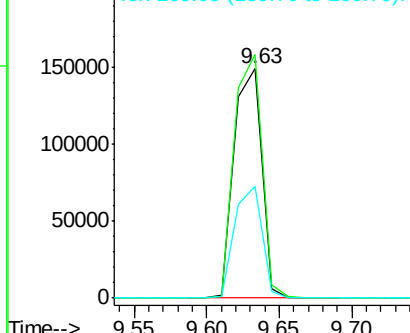
164 100

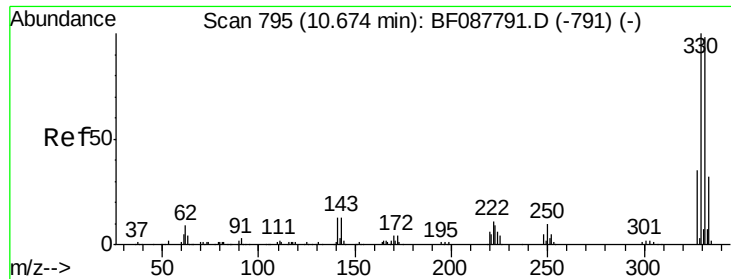
162 106.3 85.4 128.2

160 48.9 39.5 59.3



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





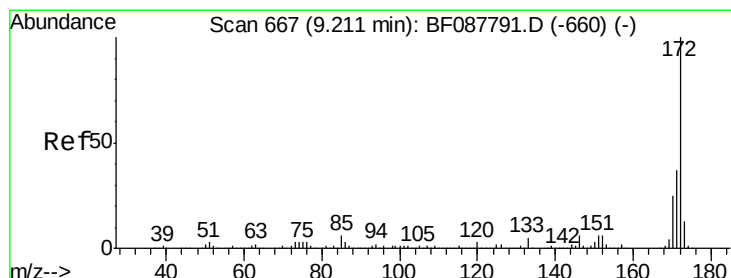
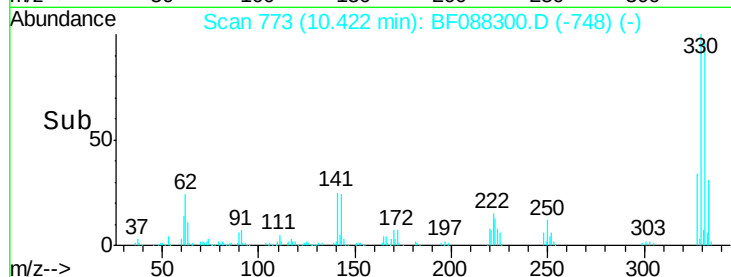
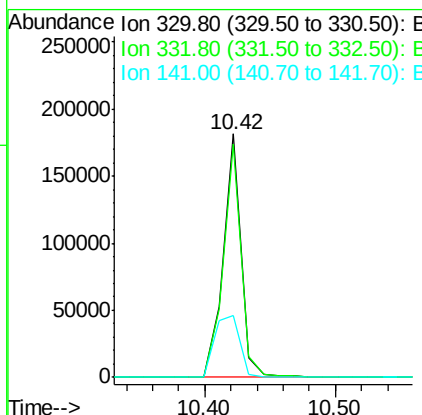
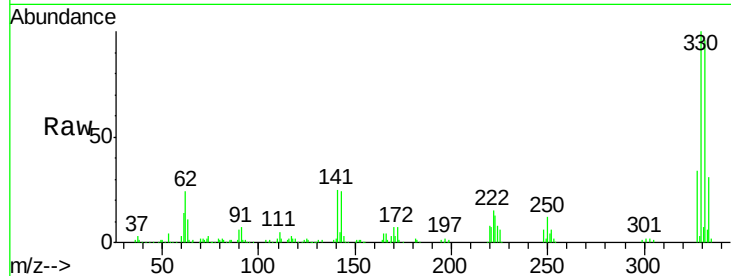
#41
 2,4,6-Tribromophenol
 Concen: 84.02 ng
 RT: 10.42 min Scan# 773
 Delta R.T. -0.01 min
 Lab File: BF088300.D
 Acq: 23 Jun 2016 20:45

Instrument :
 BNA_F
 ClientSampleId :
 HF-4-WC-3RE

Tgt Ion	Ratio	Resp Lower	Resp Upper
330	100		
332	96.5	0.0	0.0#
141	36.6	0.0	0.0#

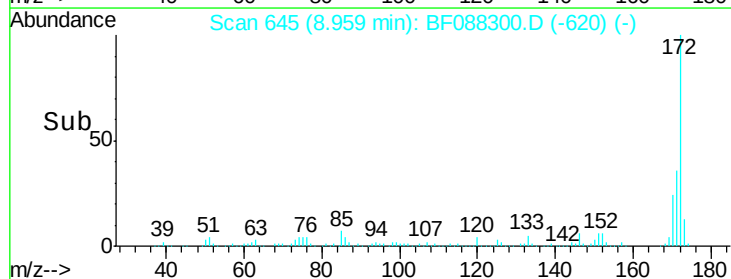
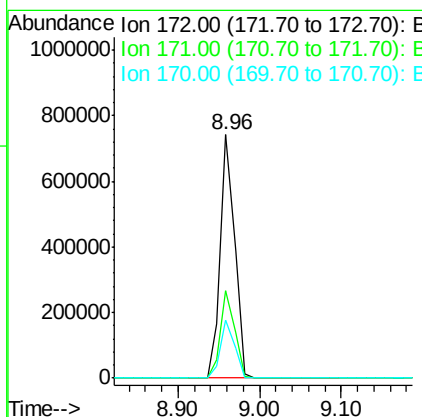
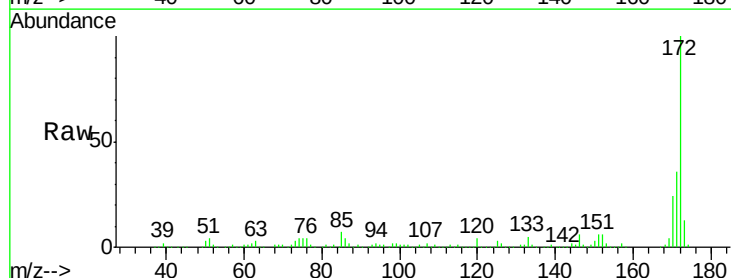
Manual Integrations
 APPROVED

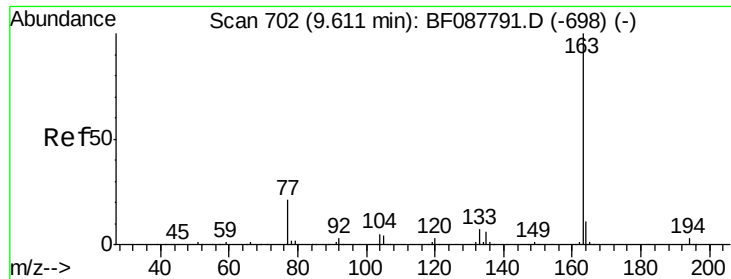
Sohil
 6/24/2016 8:28:14 AM



#44
 2-Fluorobiphenyl
 Concen: 70.76 ng
 RT: 8.96 min Scan# 645
 Delta R.T. -0.01 min
 Lab File: BF088300.D
 Acq: 23 Jun 2016 20:45

Tgt Ion	Ratio	Resp Lower	Resp Upper
172	100		
171	36.0	28.6	43.0
170	24.1	19.2	28.8





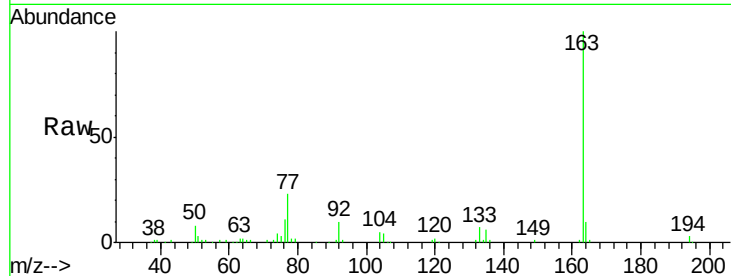
#49
Dimethylphthalate
Concen: 13.45 ng
RT: 9.36 min Scan# 680
Delta R.T. -0.02 min
Lab File: BF088300.D
Acq: 23 Jun 2016 20:45

Instrument :
BNA_F
ClientSampleId :
HF-4-WC-3RE

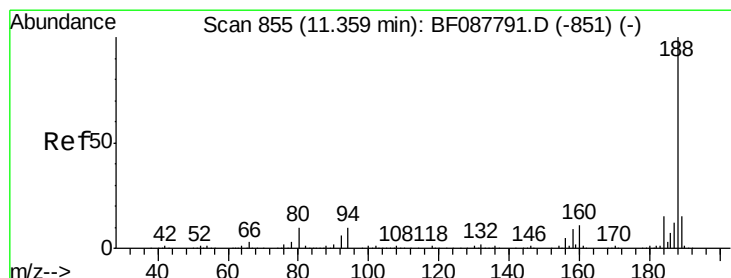
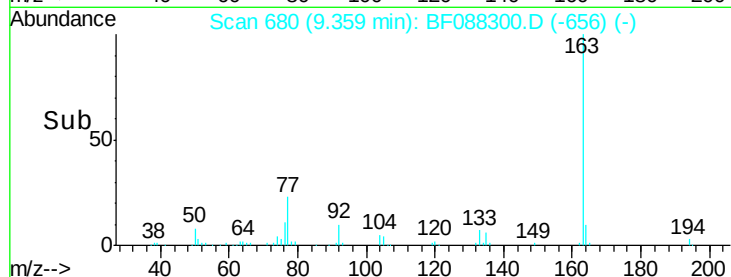
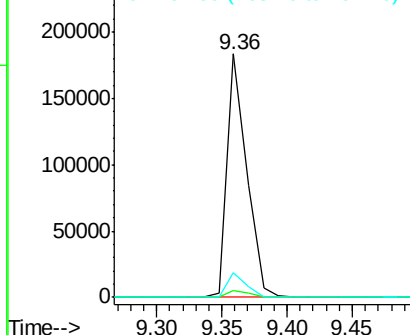
Tgt Ion	Ratio	Resp Lower	Resp Upper
163	100		
194	2.9	2.8	4.2
164	10.3	8.3	12.5

Manual Integrations
APPROVED

Sohil
6/24/2016 8:28:14 AM

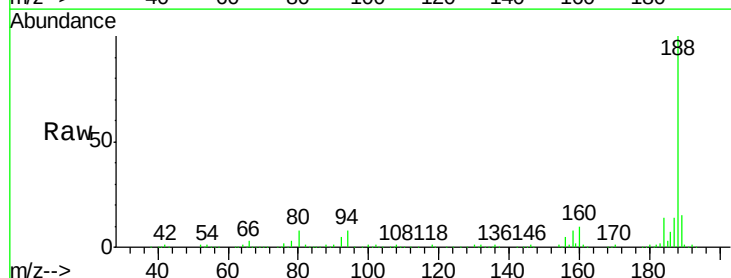


Abundance Ion 163.00 (162.70 to 163.70): E
Ion 194.00 (193.70 to 194.70): E
Ion 164.00 (163.70 to 164.70): E

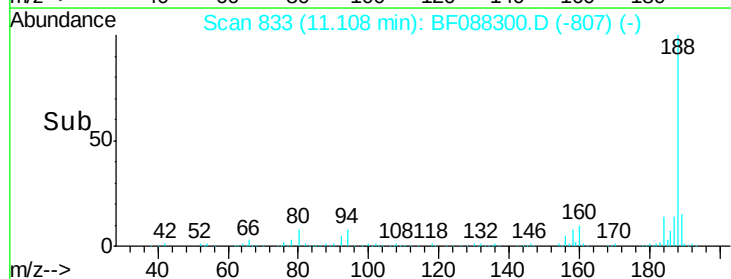
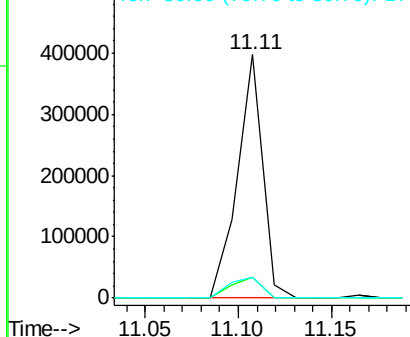


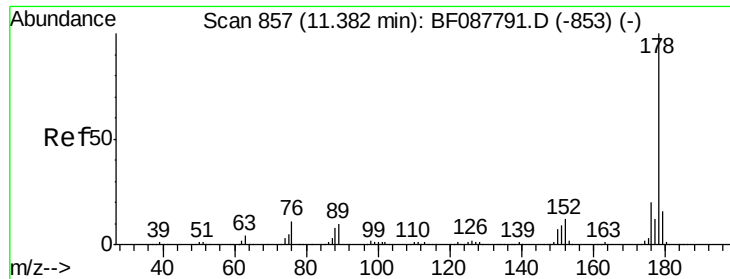
#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 11.11 min Scan# 833
Delta R.T. -0.00 min
Lab File: BF088300.D
Acq: 23 Jun 2016 20:45

Tgt Ion	Ratio	Resp Lower	Resp Upper
188	100		
94	8.3	9.0	13.6#
80	8.4	10.0	15.0#



Abundance Ion 188.00 (187.70 to 188.70): E
Ion 94.00 (93.70 to 94.70): BF0
Ion 80.00 (79.70 to 80.70): BF0





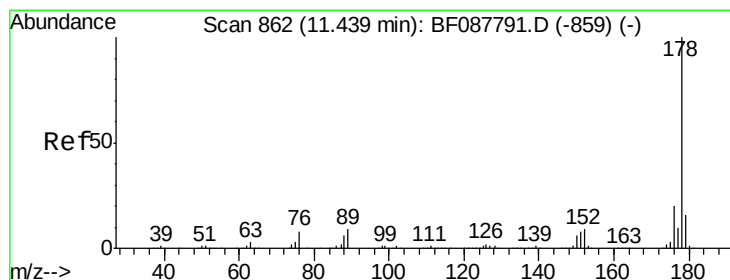
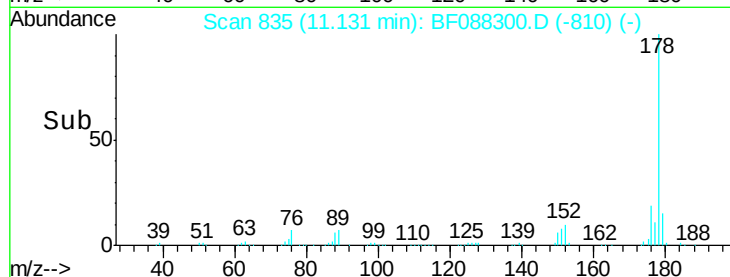
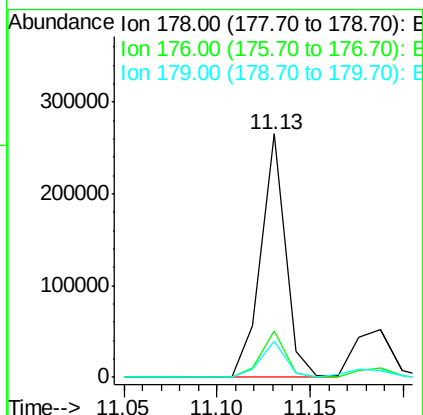
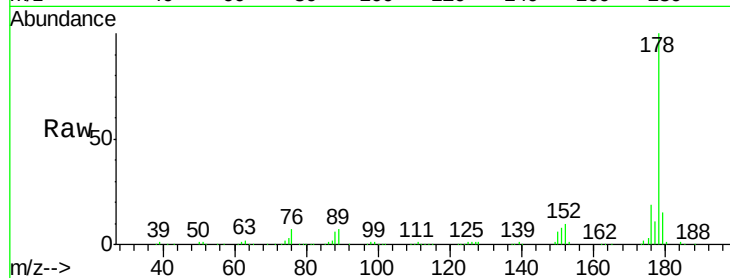
#70
Phenanthrene
Concen: 12.28 ng
RT: 11.13 min Scan# 835
Delta R.T. -0.01 min
Lab File: BF088300.D
Acq: 23 Jun 2016 20:45

Instrument :
BNA_F
ClientSampleId :
HF-4-WC-3RE

Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.8	15.8	23.6
179	14.8	13.0	19.4

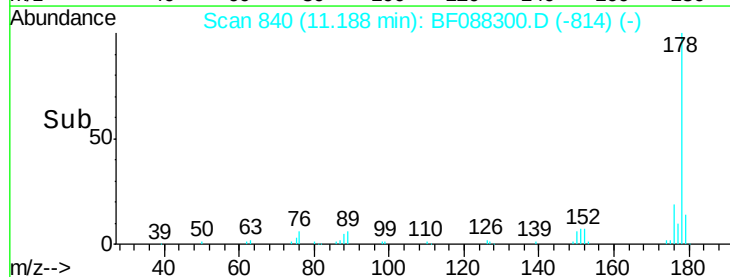
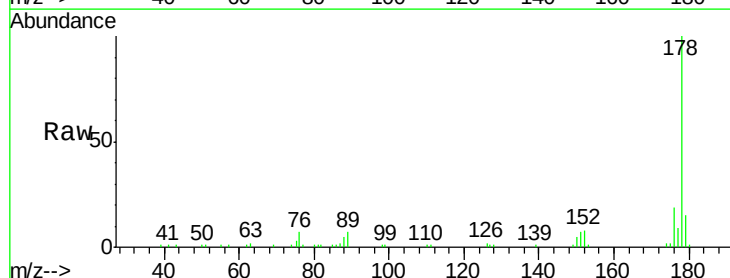
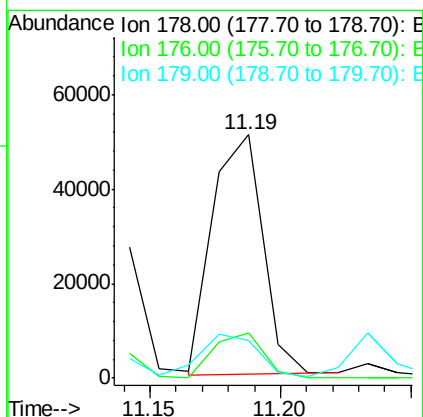
Manual Integrations
APPROVED

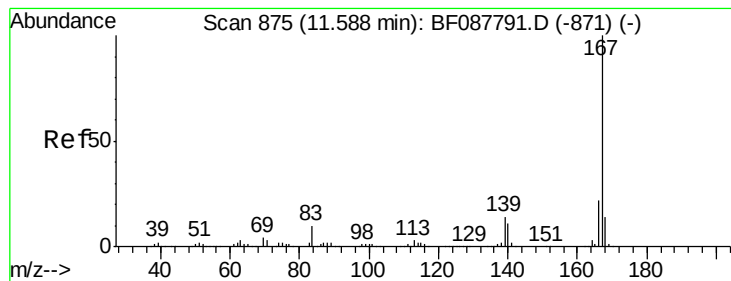
Sohil
6/24/2016 8:28:14 AM



#71
Anthracene
Concen: 3.46 ng
RT: 11.19 min Scan# 840
Delta R.T. 0.00 min
Lab File: BF088300.D
Acq: 23 Jun 2016 20:45

Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.7	15.6	23.4
179	15.5	12.8	19.2





#72

Carbazole

Concen: 2.62 ng

RT: 11.35 min Scan# 854

Delta R.T. -0.01 min

Lab File: BF088300.D

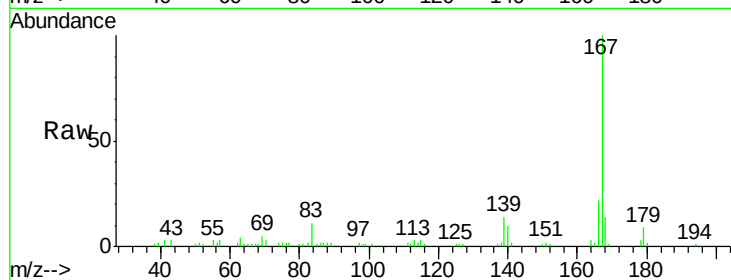
Acq: 23 Jun 2016 20:45

Instrument :

BNA_F

ClientSampleId :

HF-4-WC-3RE



Tgt Ion:167 Resp: 48732

Ion Ratio Lower Upper

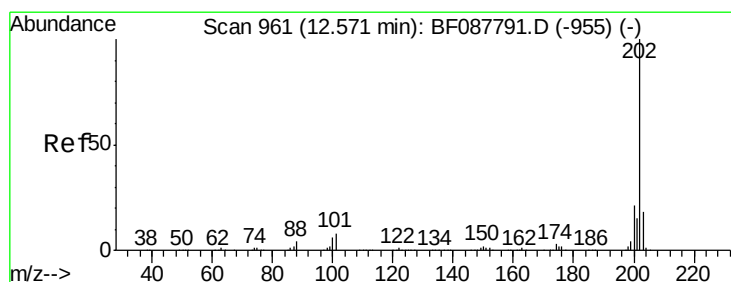
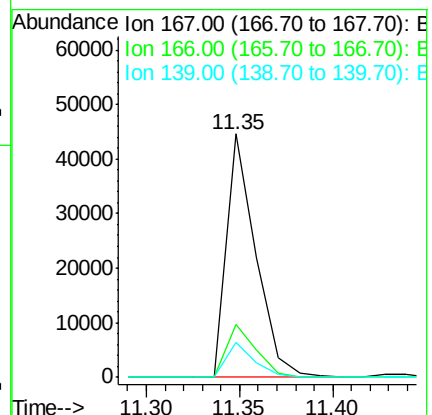
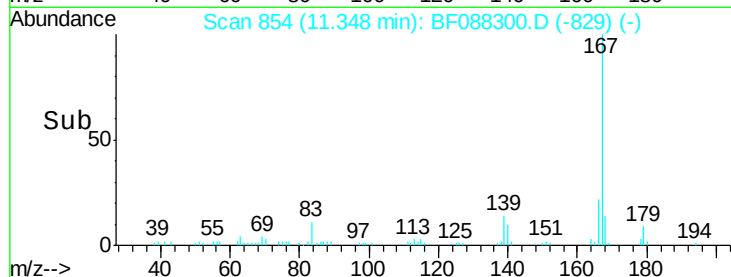
167 100

166 21.5 17.8 26.6

139 14.3 11.2 16.8

Manual Integrations
APPROVED

Sohil
6/24/2016 8:28:14 AM



#74

Fluoranthene

Concen: 18.98 ng

RT: 12.31 min Scan# 938

Delta R.T. -0.01 min

Lab File: BF088300.D

Acq: 23 Jun 2016 20:45

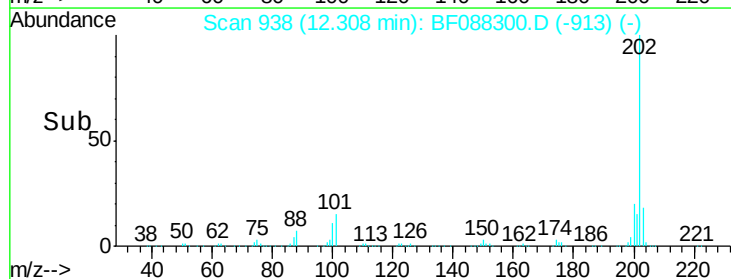
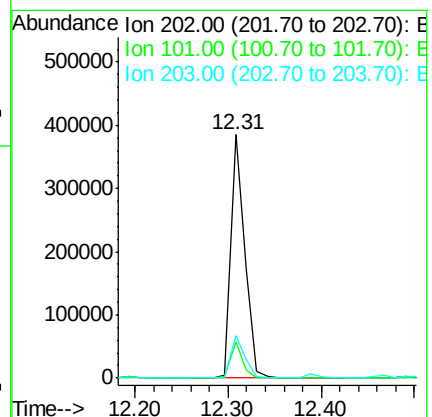
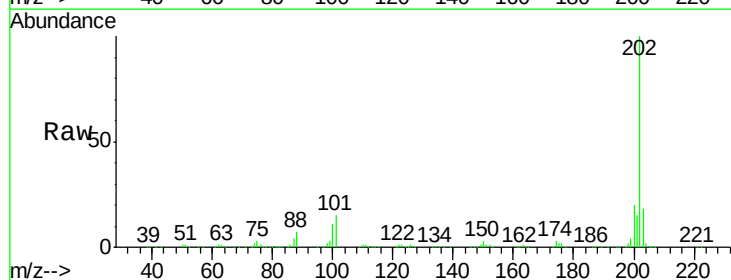
Tgt Ion:202 Resp: 395246

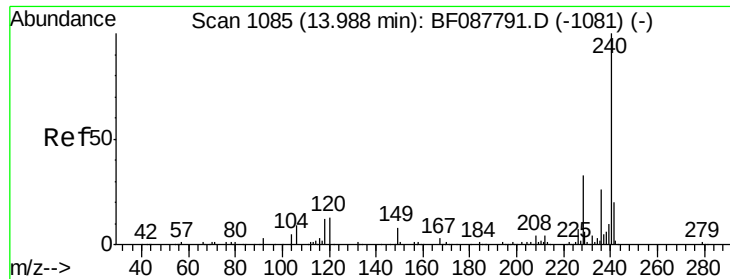
Ion Ratio Lower Upper

202 100

101 14.7 0.0 33.1

203 17.7 0.0 38.1





#75

Chrysene-d12

Concen: 20.00 ng

RT: 13.74 min Scan# 1063

Delta R.T. -0.00 min

Lab File: BF088300.D

Acq: 23 Jun 2016 20:45

Instrument :

BNA_F

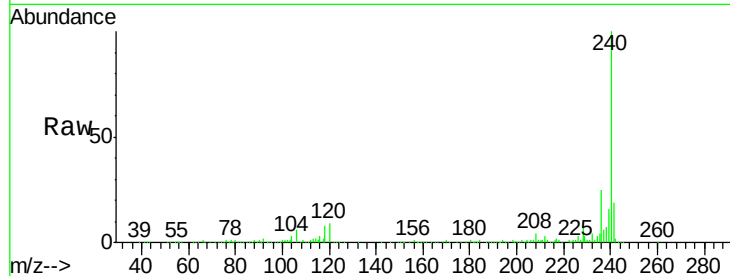
ClientSampleId :

HF-4-WC-3RE

Tgt Ion:	240	Resp:	252427
Ion Ratio	Lower	Upper	
240	100		
120	9.1	6.8	10.2
236	25.3	20.2	30.2

Manual Integrations
APPROVED

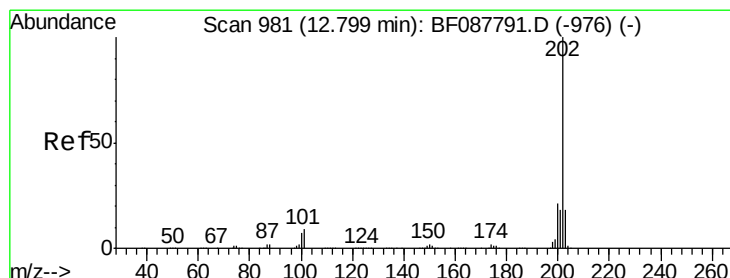
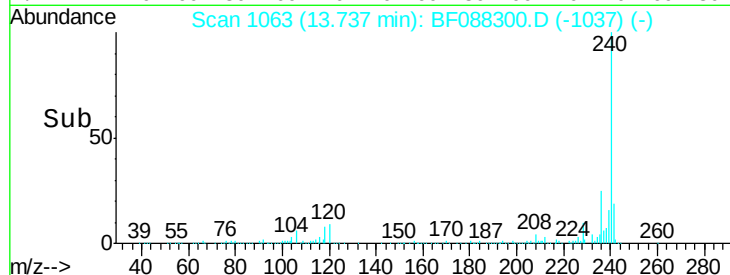
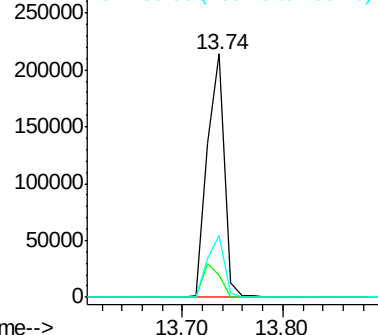
Sohil
6/24/2016 8:28:14 AM



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: 17.24 ng

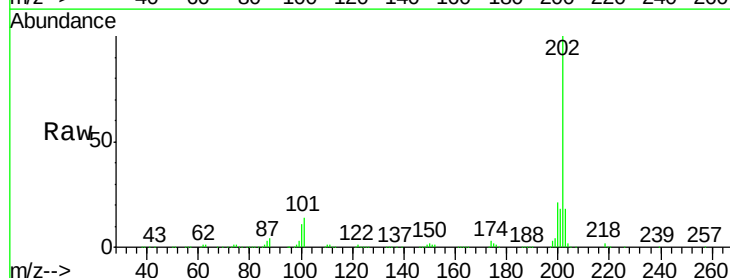
RT: 12.54 min Scan# 958

Delta R.T. -0.01 min

Lab File: BF088300.D

Acq: 23 Jun 2016 20:45

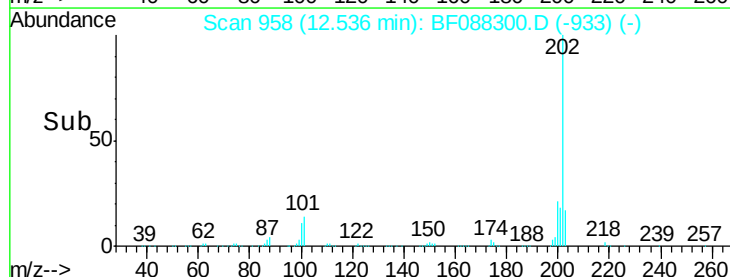
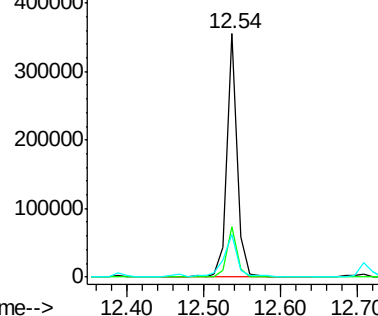
Tgt Ion:	202	Resp:	322968
Ion Ratio	Lower	Upper	
202	100		
200	20.9	17.4	26.2
203	17.8	14.5	21.7

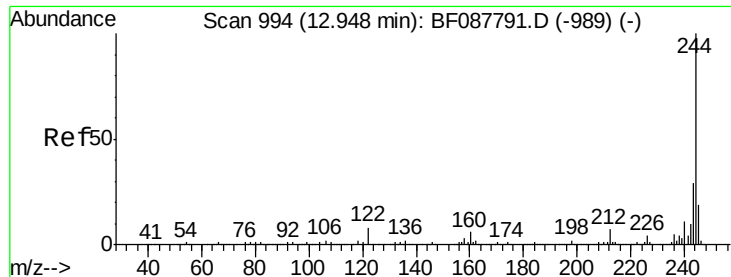


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#78

Terphenyl-d14

Concen: 71.41 ng

RT: 12.69 min Scan# 971

Delta R.T. -0.01 min

Lab File: BF088300.D

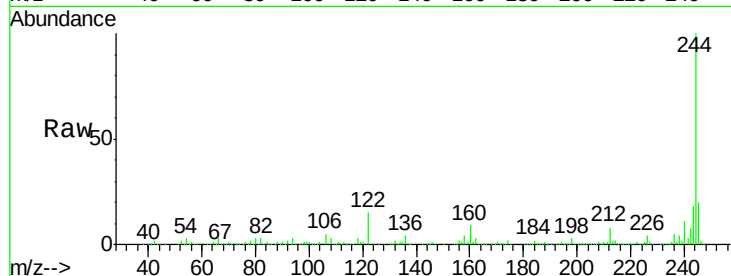
Acq: 23 Jun 2016 20:45

Instrument :

BNA_F

ClientSampleId :

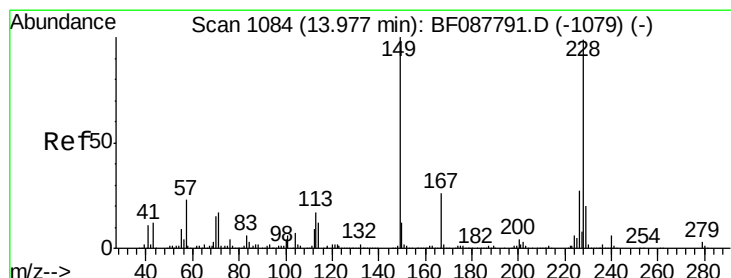
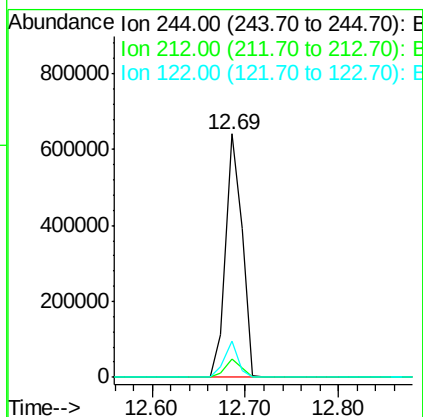
HF-4-WC-3RE



Tgt Ion:	244	Resp:	792181
Ion Ratio	Lower	Upper	
244	100		
212	7.8	6.0	9.0
122	14.8	11.2	16.8

Manual Integrations
APPROVED

Sohil
6/24/2016 8:28:14 AM



#80

Benzo(a)anthracene

Concen: 10.65 ng m

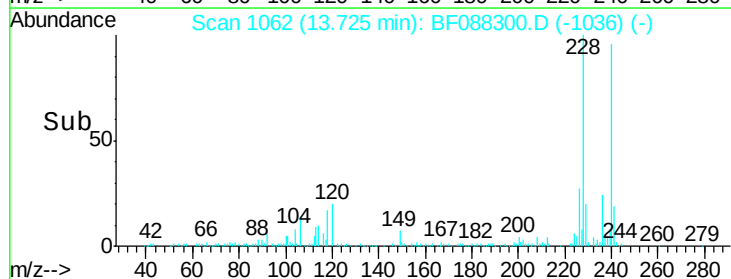
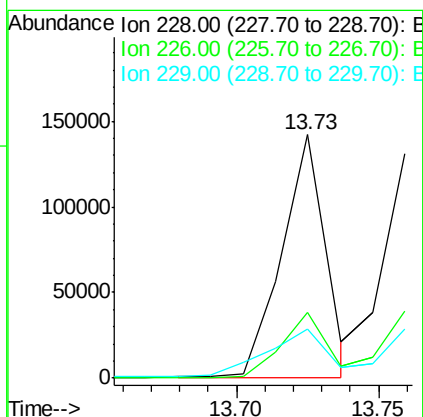
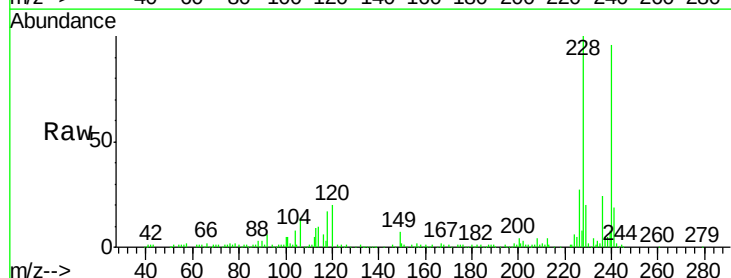
RT: 13.73 min Scan# 1062

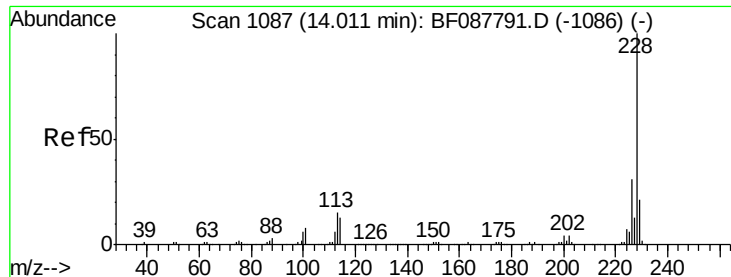
Delta R.T. -0.00 min

Lab File: BF088300.D

Acq: 23 Jun 2016 20:45

Tgt Ion:	228	Resp:	153164
Ion Ratio	Lower	Upper	
228	100		
226	27.1	22.3	33.5
229	19.9	16.0	24.0





#82

Chrysene

Concen: 9.89 ng m

RT: 13.76 min Scan# 1065

Delta R.T. 0.00 min

Lab File: BF088300.D

Acq: 23 Jun 2016 20:45

Instrument :

BNA_F

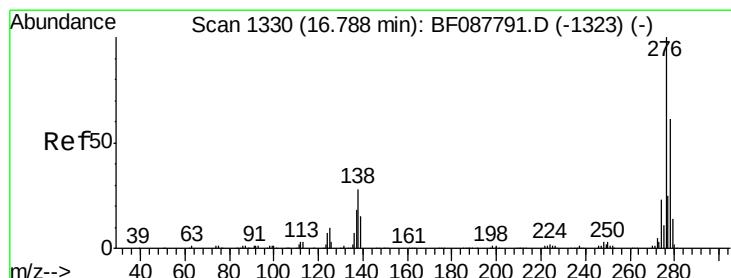
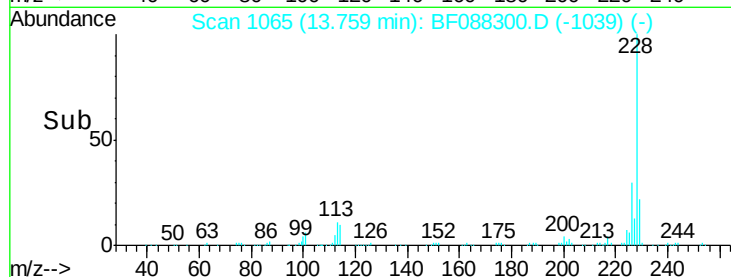
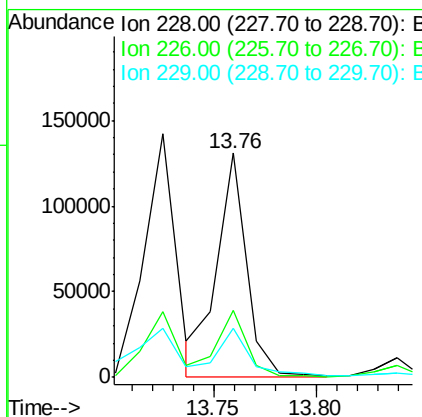
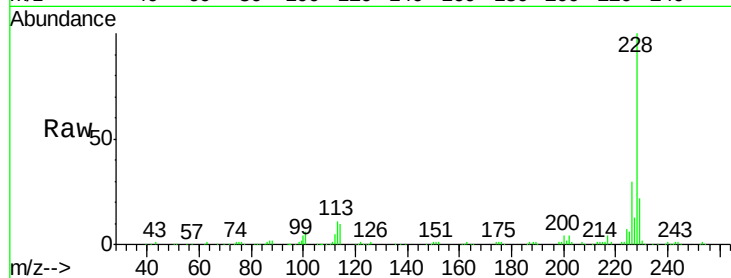
ClientSampleId :

HF-4-WC-3RE

Tgt Ion:	228	Resp:	133872
Ion Ratio	Lower	Upper	
228	100		
226	29.9	25.4	38.2
229	22.0	16.3	24.5

Manual Integrations
APPROVED

Sohil
6/24/2016 8:28:14 AM



#85

Indeno(1,2,3-cd)pyrene

Concen: 4.14 ng

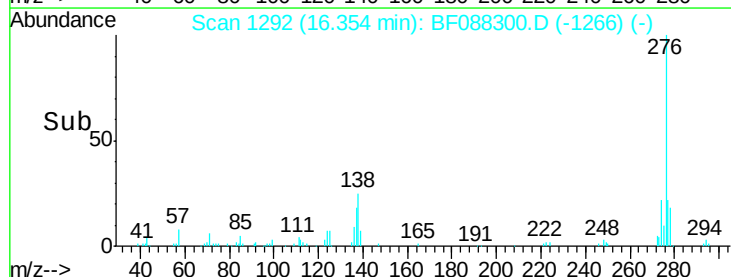
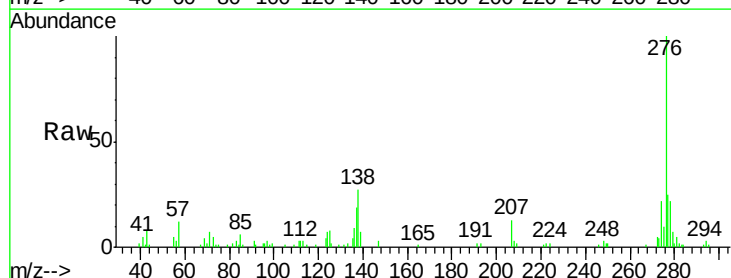
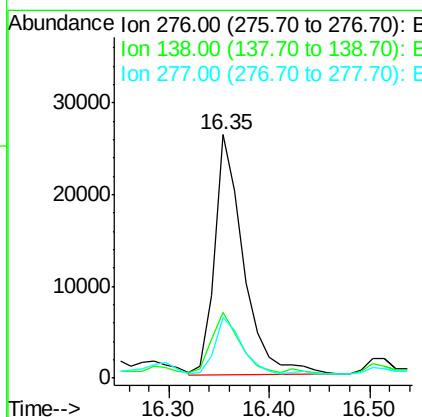
RT: 16.35 min Scan# 1292

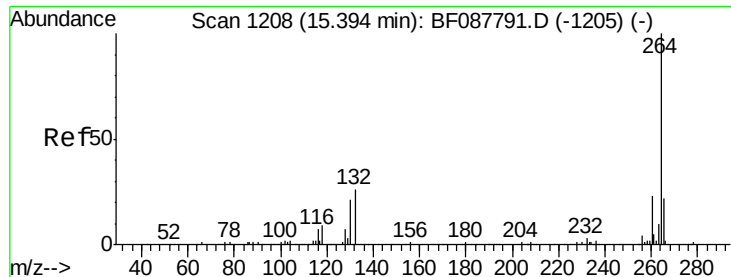
Delta R.T. -0.00 min

Lab File: BF088300.D

Acq: 23 Jun 2016 20:45

Tgt Ion:	276	Resp:	52037
Ion Ratio	Lower	Upper	
276	100		
138	25.3	0.0	0.0#
277	21.8	0.0	0.0#





#86

Perylene-d12

Concen: 20.00 ng

RT: 15.09 min Scan# 1181

Delta R.T. -0.01 min

Lab File: BF088300.D

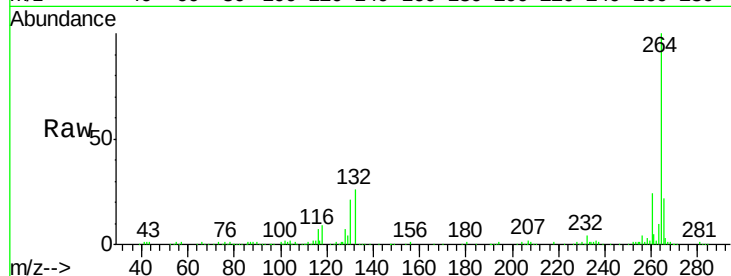
Acq: 23 Jun 2016 20:45

Instrument :

BNA_F

ClientSampleId :

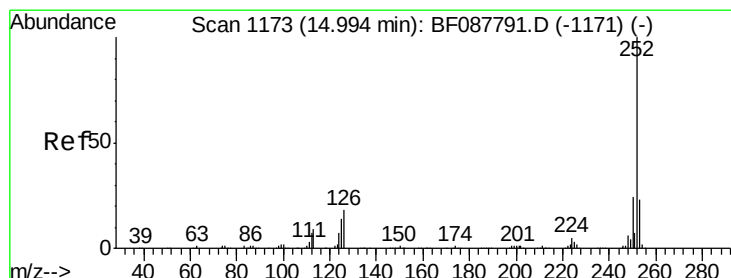
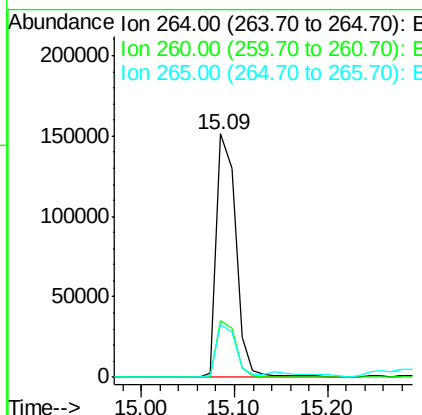
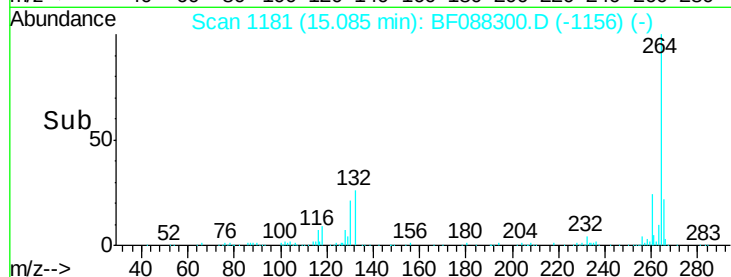
HF-4-WC-3RE



Tgt Ion	Ratio	Lower	Upper
264	100		
260	23.5	19.2	28.8
265	21.9	16.9	25.3

Manual Integrations
APPROVED

Sohil
6/24/2016 8:28:14 AM



#87

Benzo(b)fluoranthene

Concen: 8.75 ng m

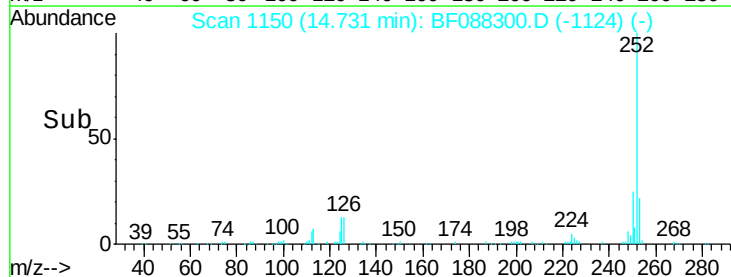
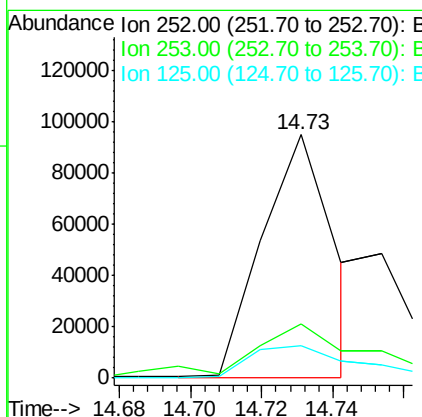
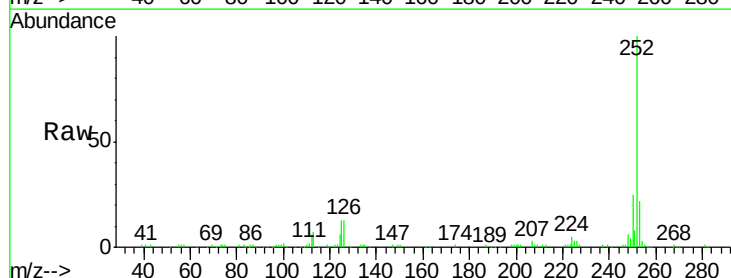
RT: 14.73 min Scan# 1150

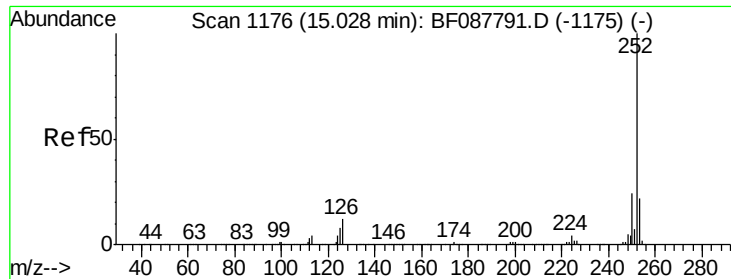
Delta R.T. -0.00 min

Lab File: BF088300.D

Acq: 23 Jun 2016 20:45

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.3	17.4	26.2
125	13.1	7.1	10.7#





#88

Benzo(k)fluoranthene

Concen: 4.14 ng m

RT: 14.75 min Scan# 1152

Delta R.T. 0.00 min

Lab File: BF088300.D

Acq: 23 Jun 2016 20:45

Instrument :

BNA_F

ClientSampleId :

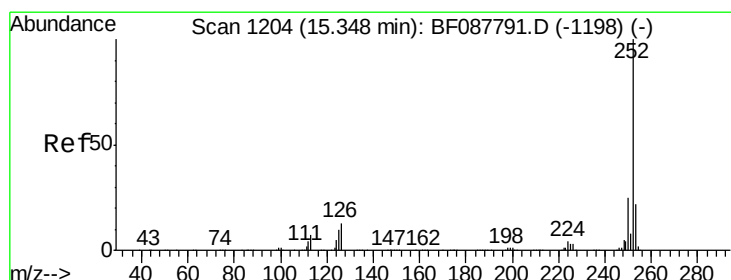
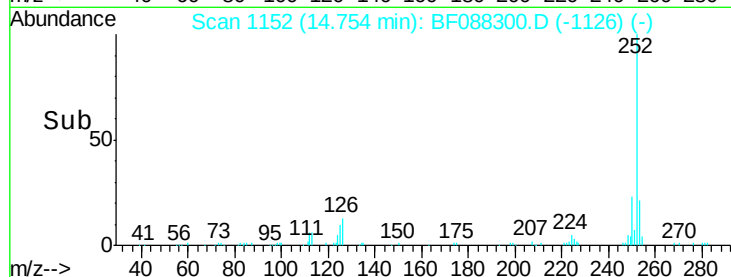
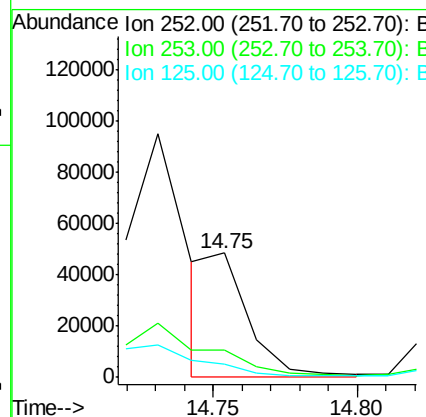
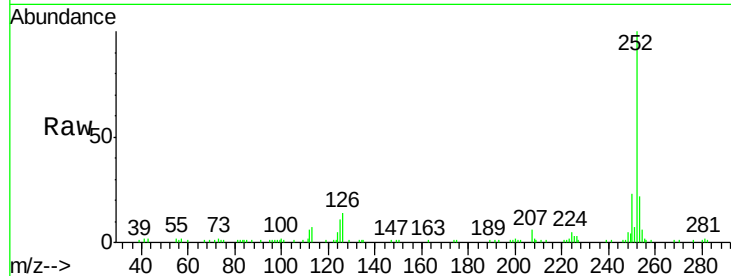
HF-4-WC-3RE

Manual Integrations
APPROVED

Sohil

6/24/2016 8:28:14 AM

Tgt Ion:	252	Resp:	47612
Ion Ratio	Lower	Upper	
252	100		
253	22.0	18.0	27.0
125	11.1	11.2	16.8#



#89

Benzo(a)pyrene

Concen: 7.52 ng

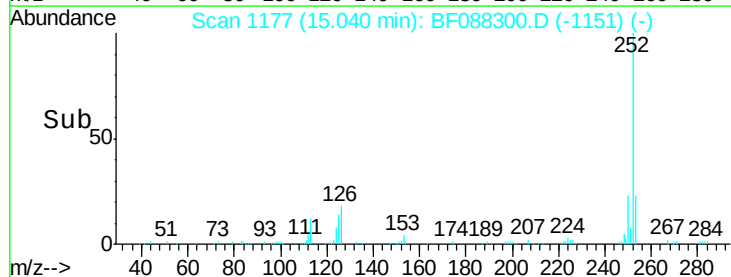
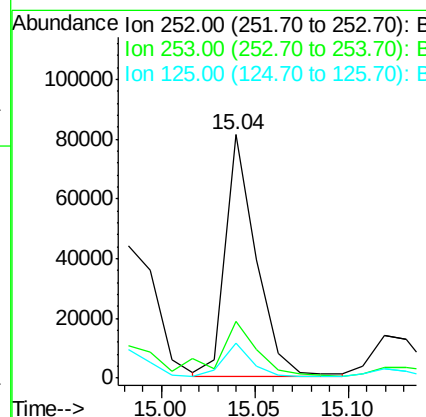
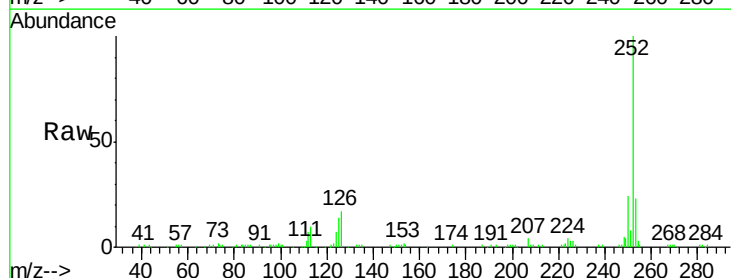
RT: 15.04 min Scan# 1177

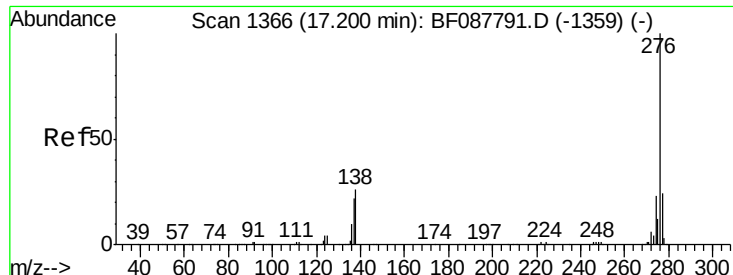
Delta R.T. -0.00 min

Lab File: BF088300.D

Acq: 23 Jun 2016 20:45

Tgt Ion:	252	Resp:	92835
Ion Ratio	Lower	Upper	
252	100		
253	23.5	17.9	26.9
125	14.4	12.5	18.7





#91
 Benzo(g,h,i)perylene
 Concen: 4.04 ng
 RT: 16.73 min Scan# 1325
 Delta R.T. 0.00 min
 Lab File: BF088300.D
 Acq: 23 Jun 2016 20:45

Instrument :
 BNA_F
 ClientSampleId :
 HF-4-WC-3RE

Tgt Ion:	276	Resp:	47684
Ion Ratio		Lower	Upper
276	100		
277	26.0	18.9	28.3
138	26.9	21.4	32.2

Manual Integrations
 APPROVED

Sohil
 6/24/2016 8:28:14 AM

