

Data Path : Z:\HPCHEM1\BNA F\DATA\BF051716\
 Data File : BF087139.D
 Acq On : 18 May 2016 9:02
 Operator : UM/SJ
 Sample : H2968-06 2X
 Misc :
 ALS Vial : 41 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 TP42-4.5FTRE

Manual Integrations
 APPROVED

sohil
 5/18/2016 7:00:20 PM

Quant Time: May 18 13:22:48 2016
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF051716.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue May 17 16:55:01 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.59	152	92954	20.00	ng	-0.01
21) Naphthalene-d8	7.88	136	353784	20.00	ng	-0.01
38) Acenaphthene-d10	9.63	164	137517	20.00	ng	-0.01
63) Phenanthrene-d10	11.11	188	237135	20.00	ng	-0.01
75) Chrysene-d12	13.74	240	212859	20.00	ng	-0.02
86) Perylene-d12	15.11	264	145324	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.18	112	548460	99.18	ng	-0.02
7) Phenol-d6	6.26	99	727754	98.12	ng	-0.02
23) Nitrobenzene-d5	7.16	82	464171	65.39	ng	-0.02
41) 2,4,6-Tribromophenol	10.42	330	111100	73.11	ng	-0.02
44) 2-Fluorobiphenyl	8.96	172	599103	72.15	ng	-0.02
78) Terphenyl-d14	12.68	244	436244	46.36	ng	-0.02
Target Compounds						Qvalue
48) Acenaphthylene	9.48	152	37884	2.83	ng	97
49) Dimethylphthalate	9.36	163	95149	9.07	ng	99
70) Phenanthrene	11.13	178	85611	6.66	ng	97
71) Anthracene	11.18	178	41701	3.21	ng	99
74) Fluoranthene	12.31	202	336672	26.13	ng	99
77) Pyrene	12.54	202	291726	18.97	ng	99
80) Benzo(a)anthracene	13.73	228	155407m	12.63	ng	
82) Chrysene	13.76	228	166390m	13.97	ng	
85) Indeno(1,2,3-cd)pyrene	16.37	276	53987	5.17	ng	93
87) Benzo(b)fluoranthene	14.74	252	168579m	17.49	ng	
88) Benzo(k)fluoranthene	14.75	252	27134m	3.78	ng	
89) Benzo(a)pyrene	15.05	252	94349	11.71	ng	# 83
90) Dibenzo(a,h)anthracene	16.37	278	17268	2.55	ng	# 33
91) Benzo(a,h,i)perylene	16.74	276	49248	7.19	ng	# 90

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

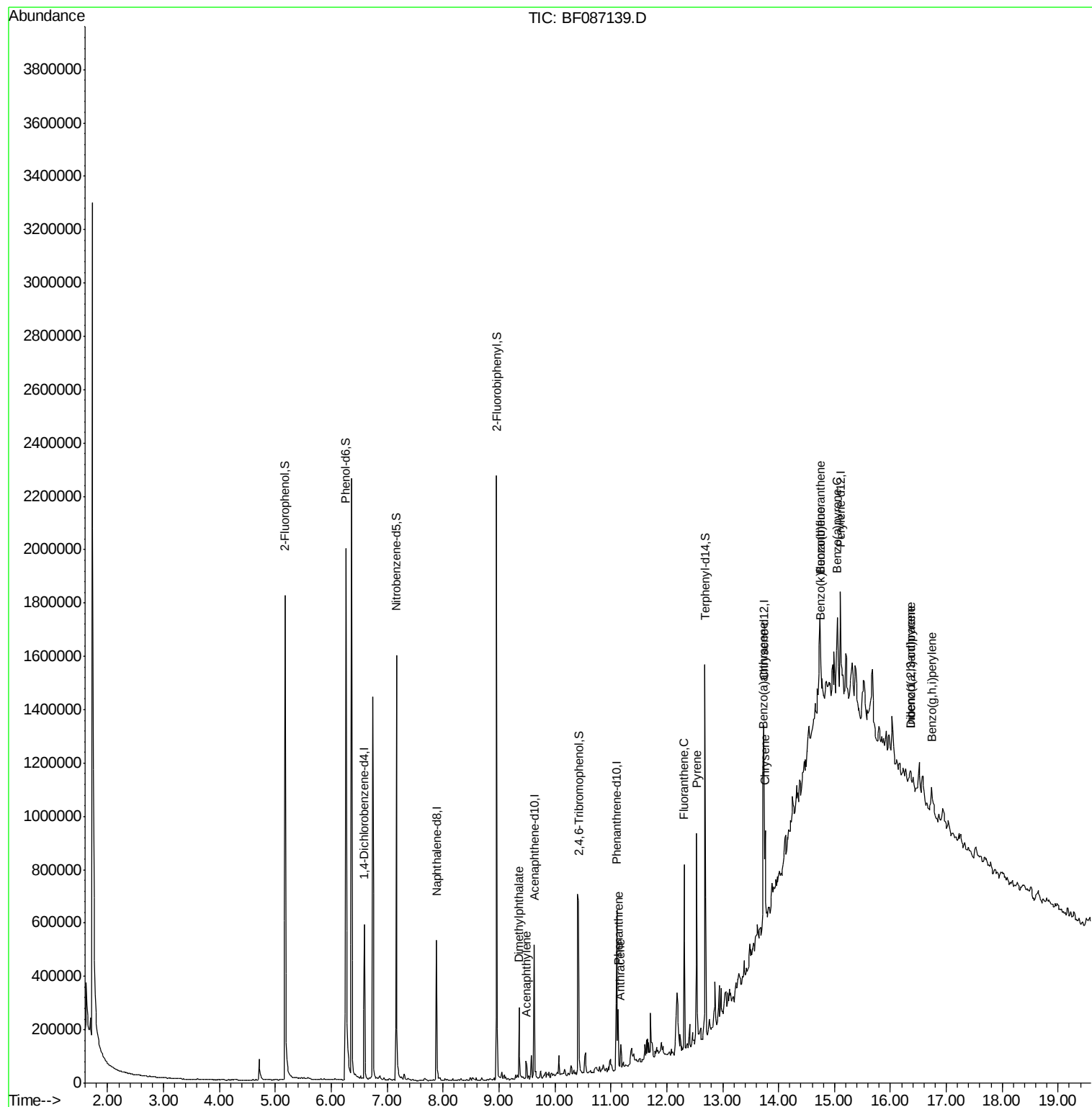
Data Path : Z:\HPCHEM1\BNA F\DATA\BF051716\
Data File : BF087139.D
Acq On : 18 May 2016 9:02
Operator : UM/SJ
Sample : H2968-06 2X
Misc :
ALS Vial : 41 Sample Multiplier: 1

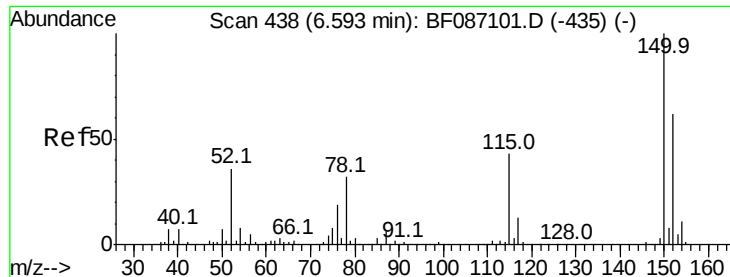
Instrument :
BNA_F
ClientSampleId :
TP42-4.5FTRE

Manual Integrations
APPROVED

sohil
5/18/2016 7:00:20 PM

Quant Time: May 18 13:22:48 2016
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF051716.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 17 16:55:01 2016
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.59 min Scan# 438

Delta R.T. -0.01 min

Lab File: BF087139.D

Acq: 18 May 2016 9:02

Instrument :

BNA_F

ClientSampleId :

TP42-4.5FTRE

Tot Ion:152 Resp: 92954

Ion Ratio Lower Upper

152 100

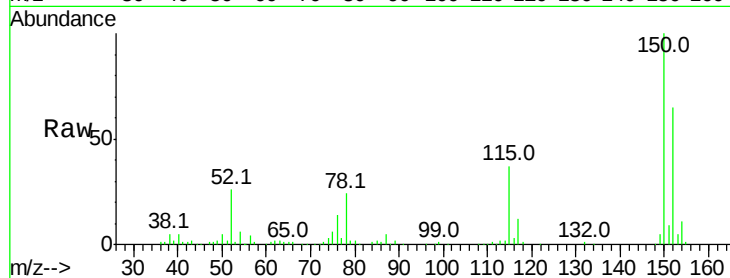
150 154.7 125.8 188.6

115 57.5 51.5 77.3

Manual Integrations
APPROVED

sohil

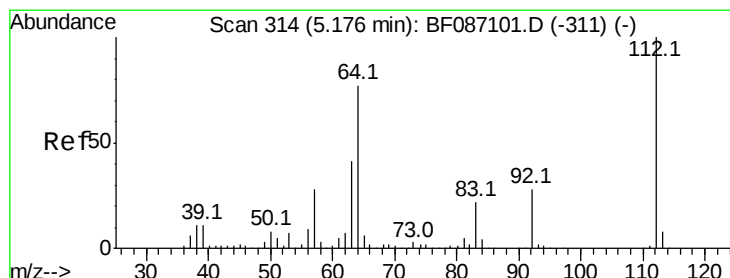
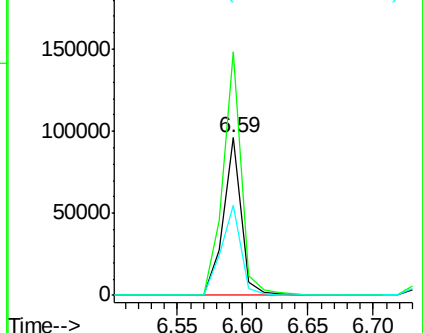
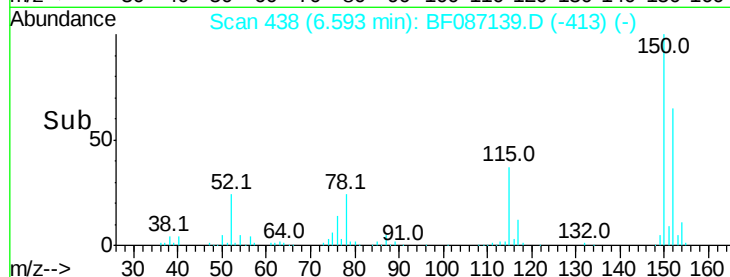
5/18/2016 7:00:20 PM



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol

Concen: 99.18 ng

RT: 5.18 min Scan# 314

Delta R.T. -0.02 min

Lab File: BF087139.D

Acq: 18 May 2016 9:02

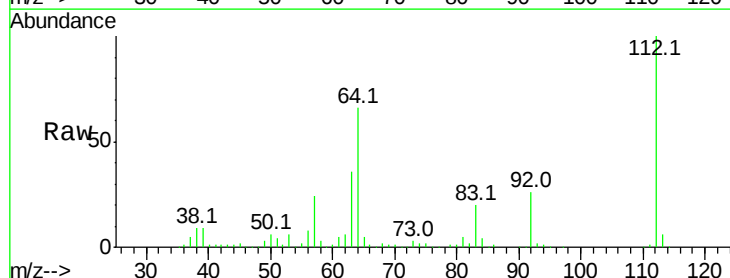
Tgt Ion:112 Resp: 548460

Ion Ratio Lower Upper

112 100

64 65.8 52.1 78.1

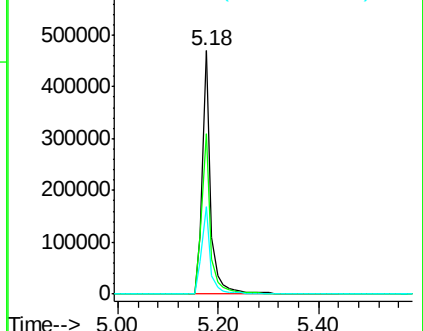
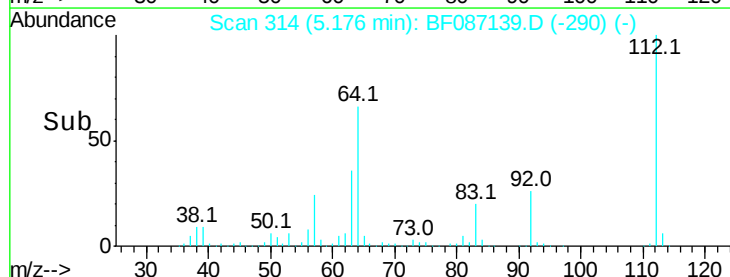
63 35.7 25.7 38.5

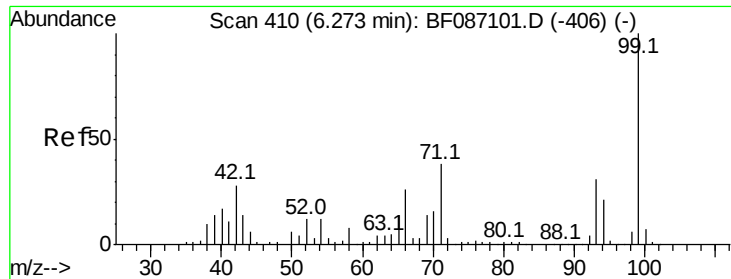


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 98.12 ng

RT: 6.26 min Scan# 409

Delta R.T. -0.02 min

Lab File: BF087139.D

Acq: 18 May 2016 9:02

Instrument :

BNA_F

ClientSampleId :

TP42-4.5FTRE

Tot Ion: 99 Resp: 727754

Ion Ratio Lower Upper

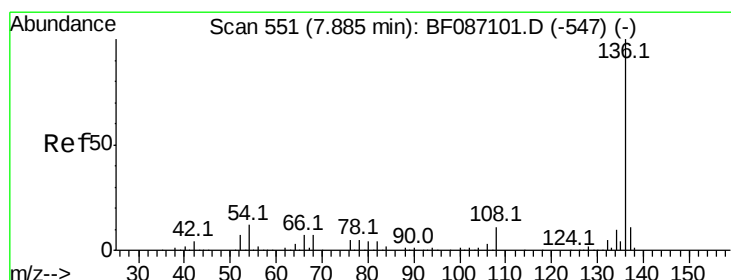
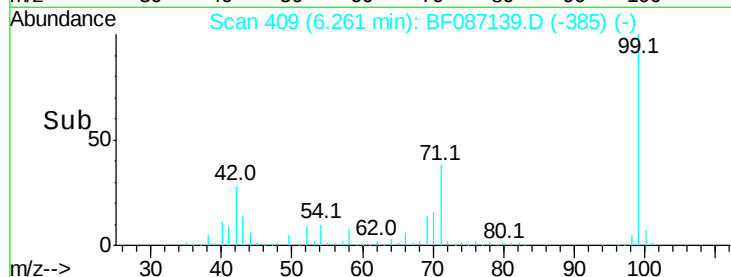
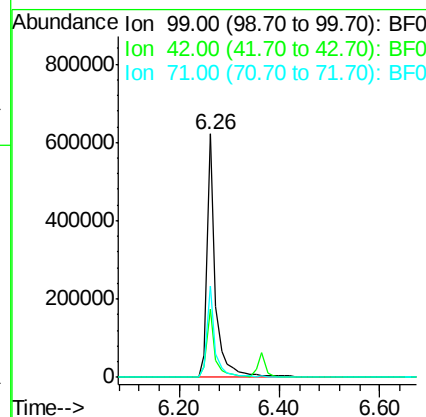
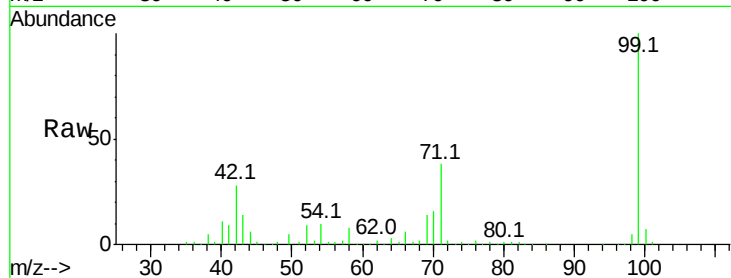
99 100

42 28.0 13.6 20.4#

71 37.5 24.6 36.8#

Manual Integrations
APPROVED

sohil
5/18/2016 7:00:20 PM



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 7.88 min Scan# 551

Delta R.T. -0.01 min

Lab File: BF087139.D

Acq: 18 May 2016 9:02

Tgt Ion: 136 Resp: 353784

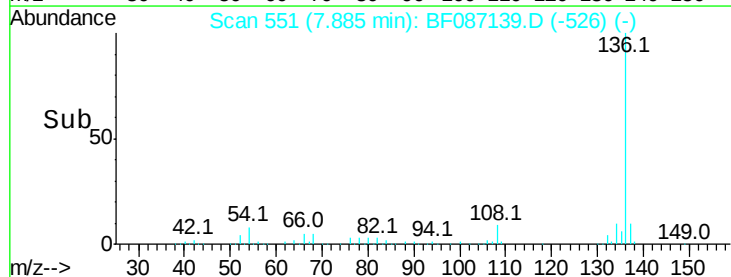
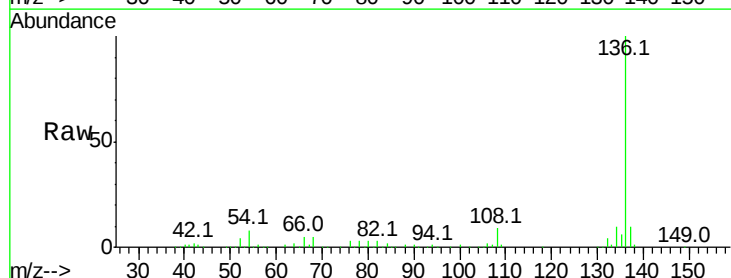
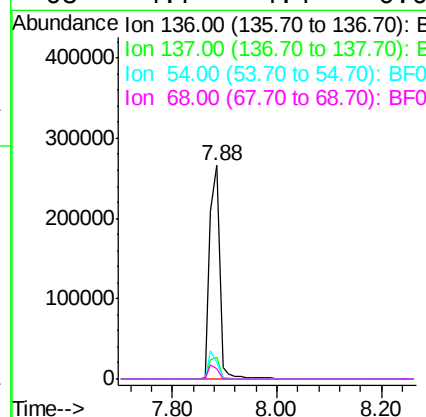
Ion Ratio Lower Upper

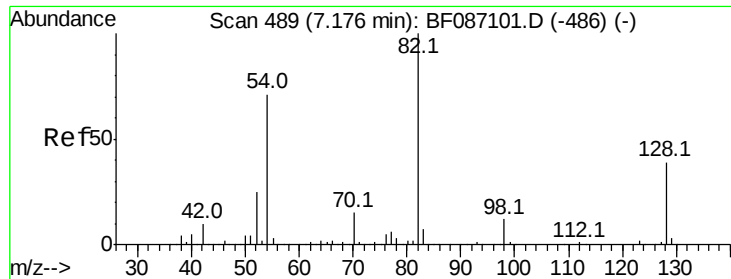
136 100

137 10.3 8.8 13.2

54 7.7 5.0 7.4#

68 4.7 4.4 6.6





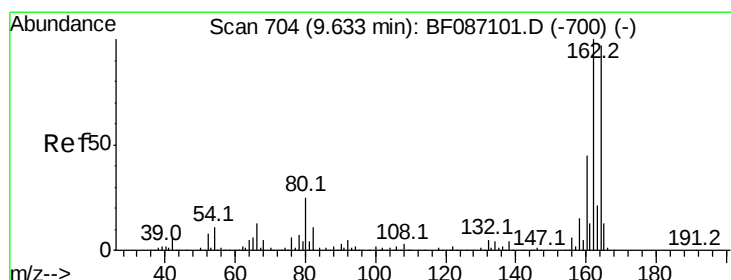
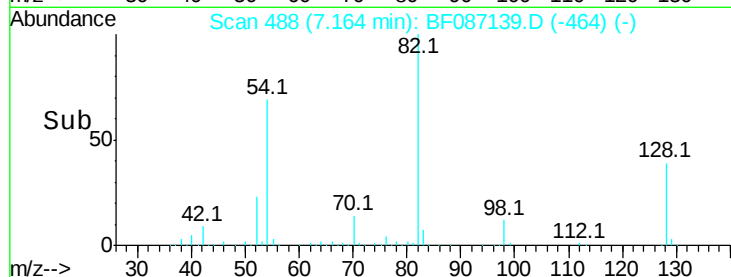
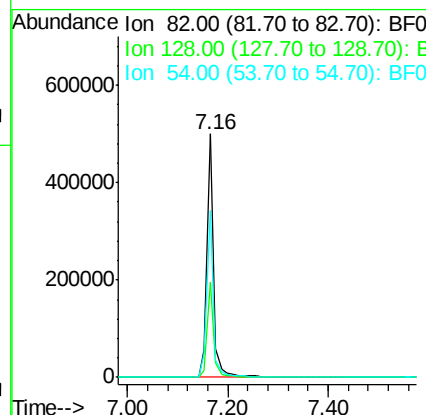
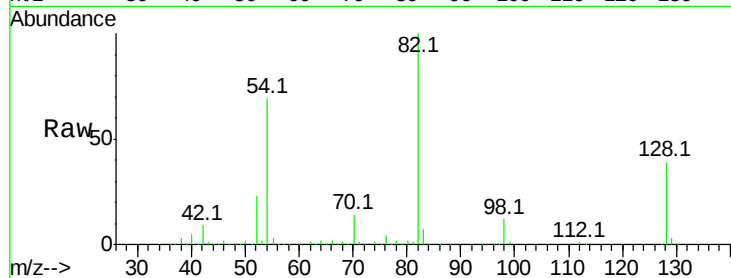
#23
 Nitrobenzene-d5
 Concen: 65.39 ng
 RT: 7.16 min Scan# 488
 Delta R.T. -0.02 min
 Lab File: BF087139.D
 Acq: 18 May 2016 9:02

Instrument :
 BNA_F
 ClientSampleId :
 TP42-4.5FTRE

Tot Ion	Ratio	Resp	Lower	Upper
82	100			
128	39.2	40.6	61.0#	
54	68.6	38.1	57.1#	

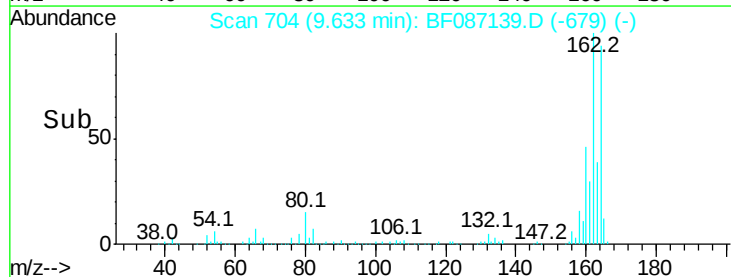
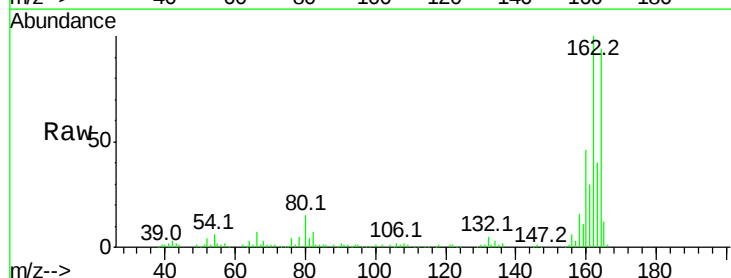
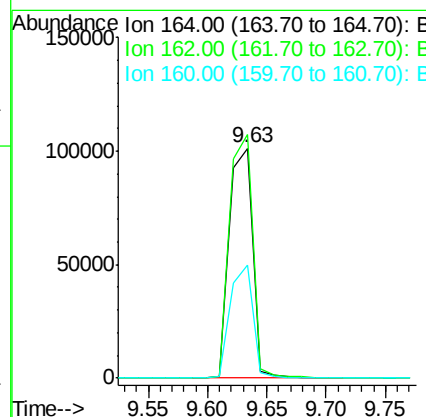
Manual Integrations
 APPROVED

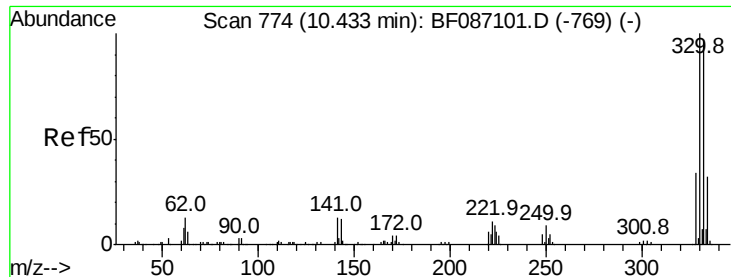
sohil
 5/18/2016 7:00:20 PM



#38
 Acenaphthene-d10
 Concen: 20.00 ng
 RT: 9.63 min Scan# 704
 Delta R.T. -0.01 min
 Lab File: BF087139.D
 Acq: 18 May 2016 9:02

Tgt Ion	Ratio	Resp	Lower	Upper
164	100			
162	106.0	82.8	124.2	
160	49.2	36.9	55.3	





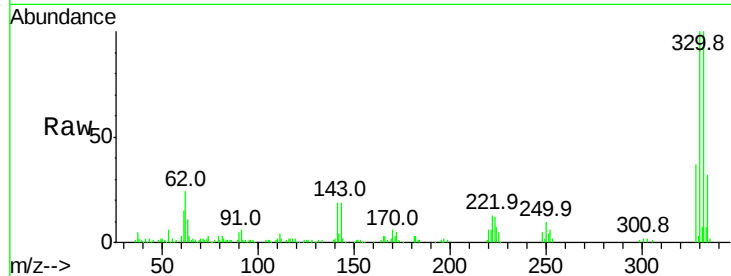
#41
 2,4,6-Tribromophenol
 Concen: 73.11 ng
 RT: 10.42 min Scan# 773
 Delta R.T. -0.02 min
 Lab File: BF087139.D
 Acq: 18 May 2016 9:02

Instrument :
 BNA_F
 ClientSampleId :
 TP42-4.5FTRE

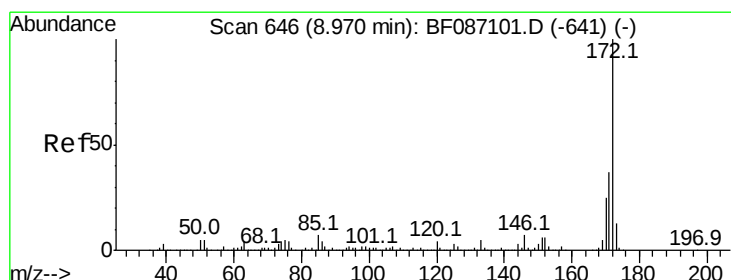
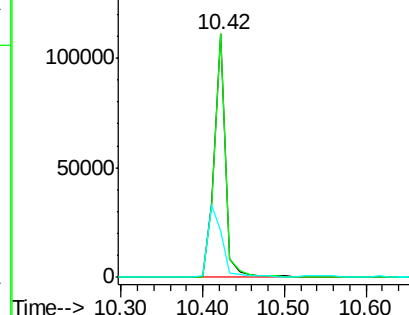
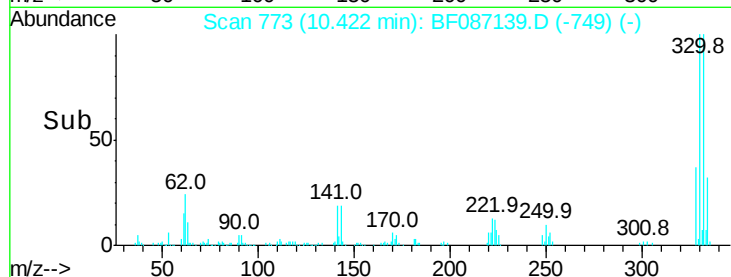
Tot Ion	Ratio	Resp	Lower	Upper
330	100			
332	98.7	79.0	118.4	
141	38.1	31.2	46.8	

Manual Integrations
 APPROVED

sohil
 5/18/2016 7:00:20 PM

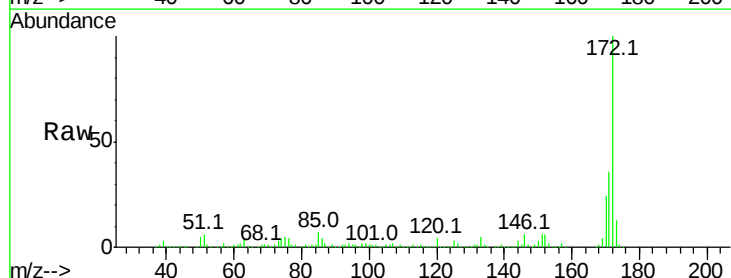


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

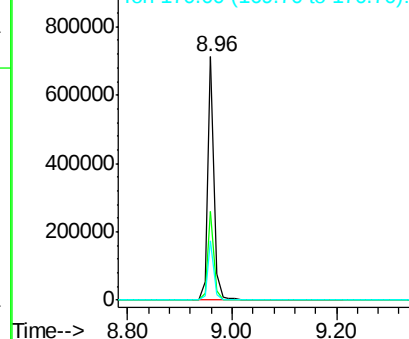
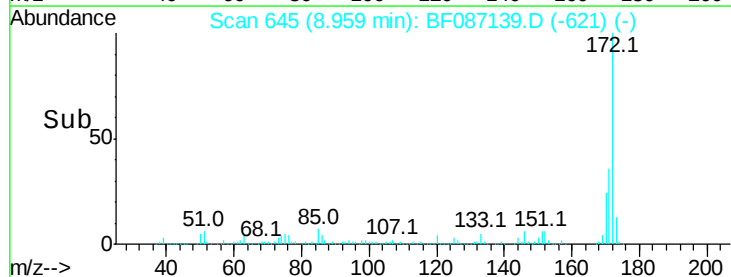


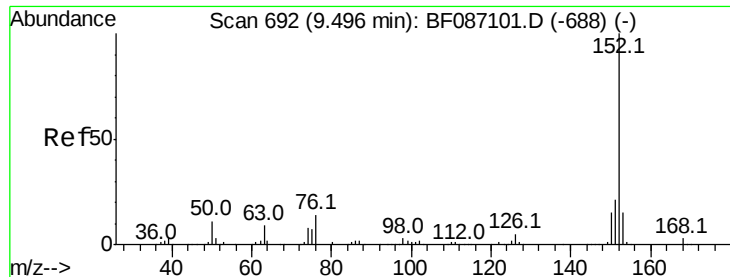
#44
 2-Fluorobiphenyl
 Concen: 72.15 ng
 RT: 8.96 min Scan# 645
 Delta R.T. -0.02 min
 Lab File: BF087139.D
 Acq: 18 May 2016 9:02

Tgt Ion	Ratio	Resp	Lower	Upper
172	100			
171	36.2	29.0	43.6	
170	24.2	19.8	29.8	



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





#48

Acenaphthylene

Concen: 2.83 ng

RT: 9.48 min Scan# 691

Delta R.T. -0.02 min

Lab File: BF087139.D

Acq: 18 May 2016 9:02

Instrument :

BNA_F

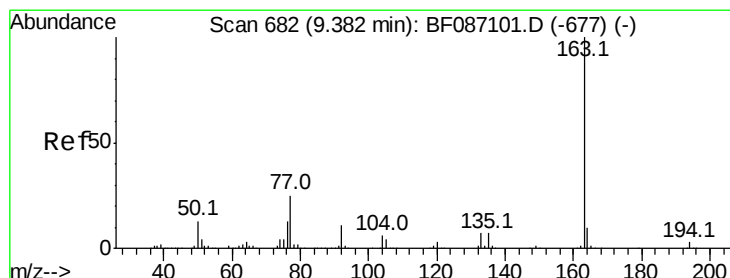
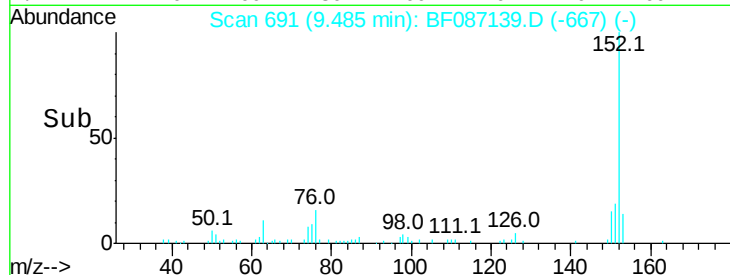
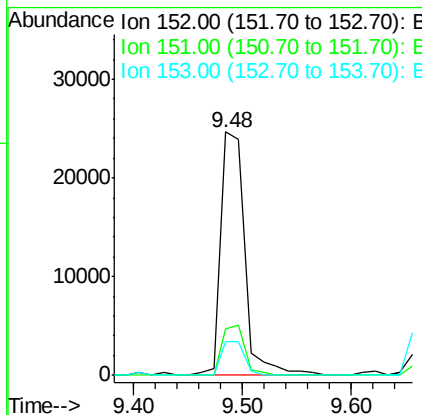
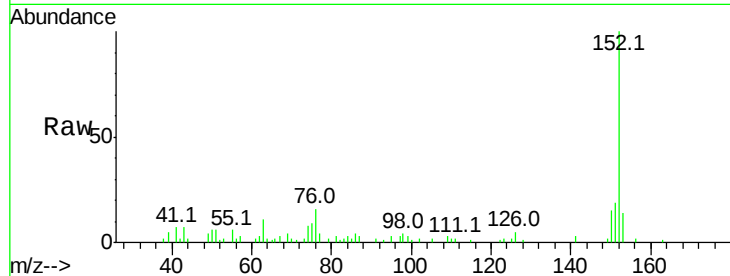
ClientSampleId :

TP42-4.5FTRE

Tot Ion:	152	Resp:	37884
Ion Ratio	Lower	Upper	
152	100		
151	19.2	16.8	25.2
153	14.1	10.9	16.3

Manual Integrations
APPROVED

sohil
5/18/2016 7:00:20 PM



#49

Dimethylphthalate

Concen: 9.07 ng

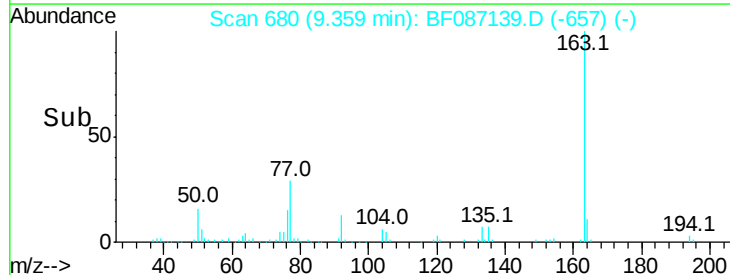
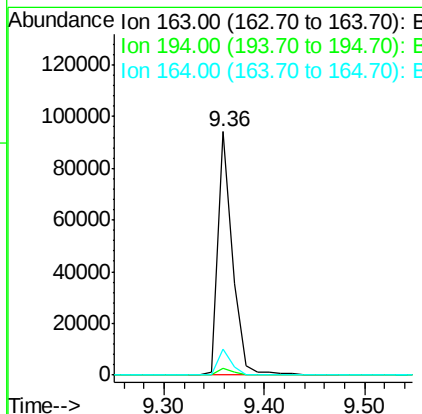
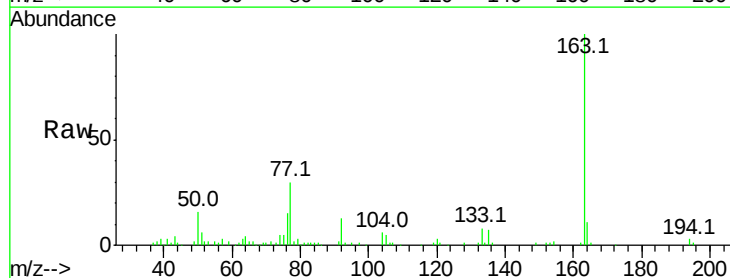
RT: 9.36 min Scan# 680

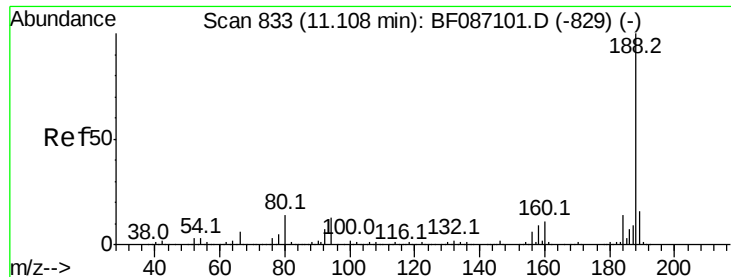
Delta R.T. -0.03 min

Lab File: BF087139.D

Acq: 18 May 2016 9:02

Tgt Ion:	163	Resp:	95149
Ion Ratio	Lower	Upper	
163	100		
194	3.0	2.6	4.0
164	10.5	8.2	12.4





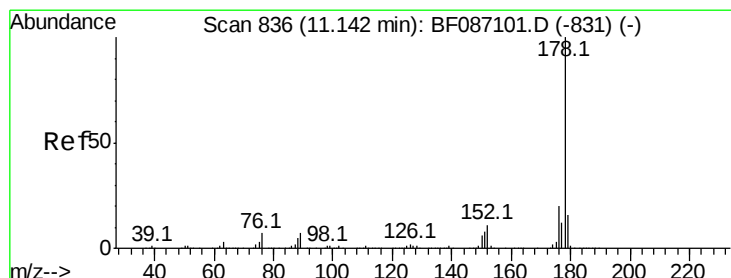
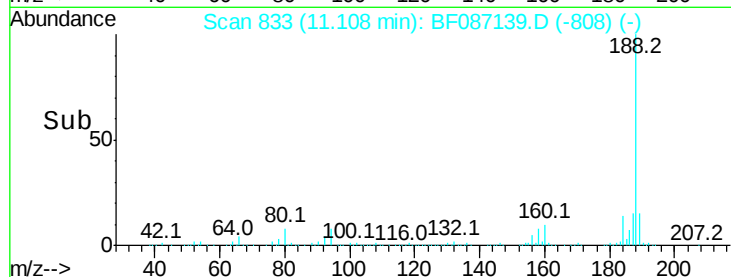
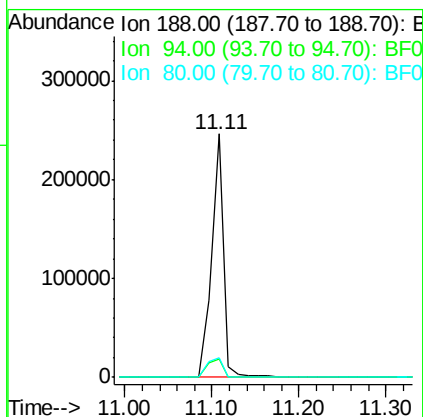
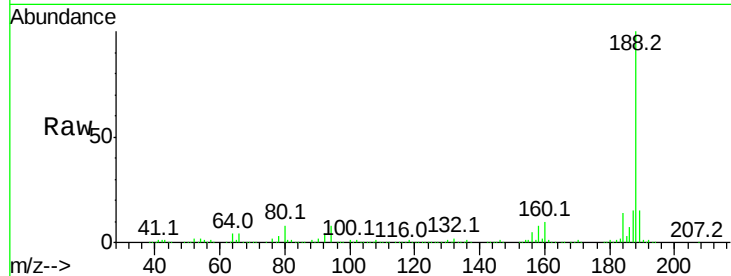
#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 11.11 min Scan# 833
Delta R.T. -0.01 min
Lab File: BF087139.D
Acq: 18 May 2016 9:02

Instrument :
BNA_F
ClientSampleId :
TP42-4.5FTRE

Tot Ion	Ratio	Resp Lower	Upper
188	100		
94	7.7	6.8	10.2
80	8.3	7.1	10.7

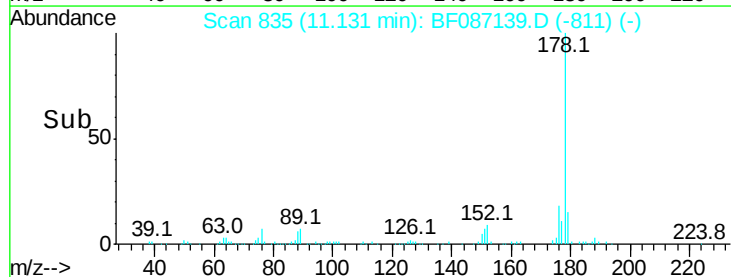
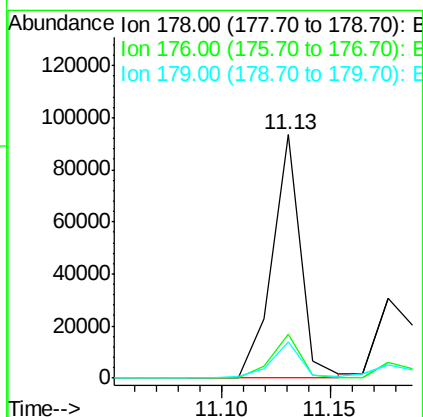
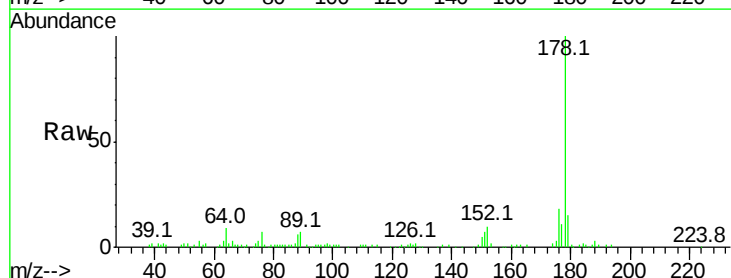
Manual Integrations
APPROVED

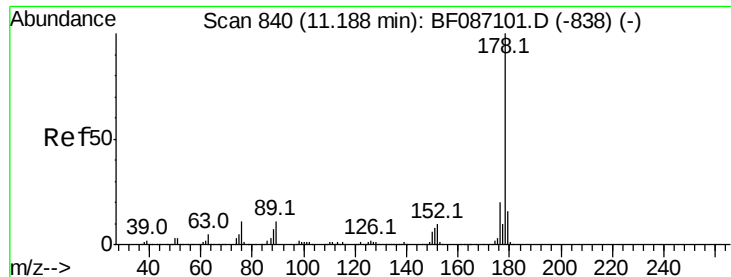
sohil
5/18/2016 7:00:20 PM



#70
Phenanthrene
Concen: 6.66 ng
RT: 11.13 min Scan# 835
Delta R.T. -0.02 min
Lab File: BF087139.D
Acq: 18 May 2016 9:02

Tgt Ion	Ratio	Resp Lower	Upper
178	100		
176	18.3	16.0	24.0
179	15.0	12.6	18.8





#71

Anthracene

Concen: 3.21 ng

RT: 11.18 min Scan# 839

Delta R.T. -0.02 min

Lab File: BF087139.D

Acq: 18 May 2016 9:02

Instrument :

BNA_F

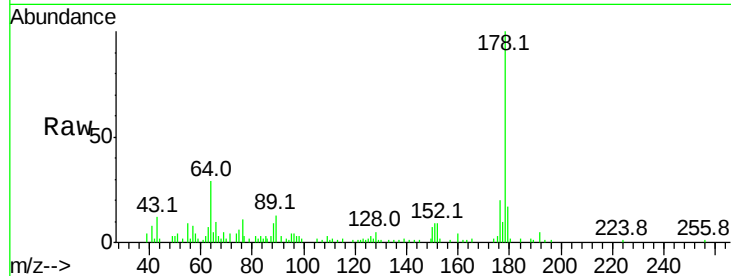
ClientSampleId :

TP42-4.5FTRE

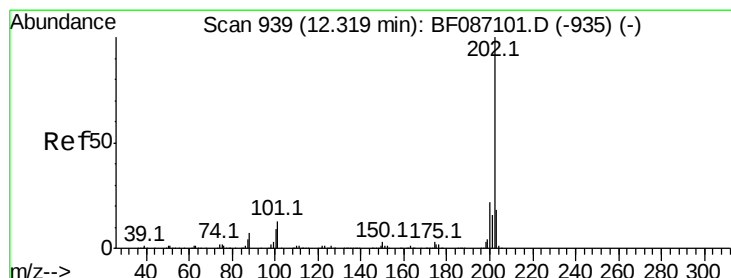
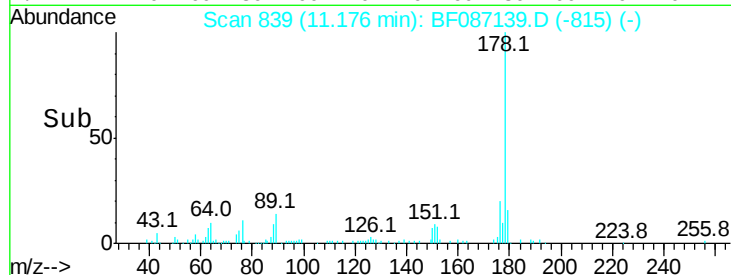
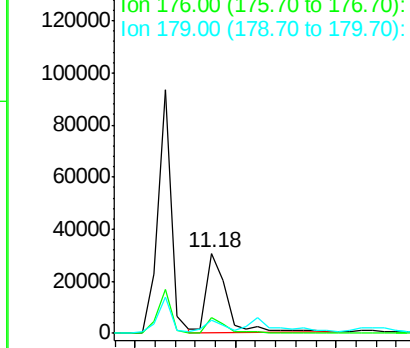
Tot Ion:	178	Resp:	41701
Ion Ratio	Lower	Upper	
178	100		
176	19.5	15.6	23.4
179	16.6	12.7	19.1

Manual Integrations
APPROVED

sohil
5/18/2016 7:00:20 PM



Abundance Ion 178.00 (177.70 to 178.70): E
Ion 176.00 (175.70 to 176.70): E
Ion 179.00 (178.70 to 179.70): E



#74

Fluoranthene

Concen: 26.13 ng

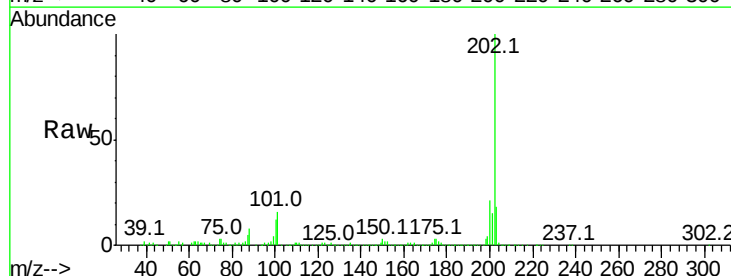
RT: 12.31 min Scan# 938

Delta R.T. -0.02 min

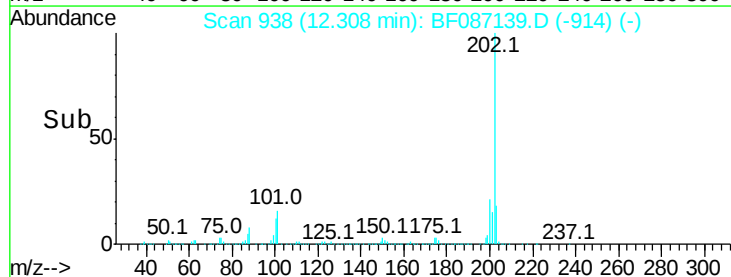
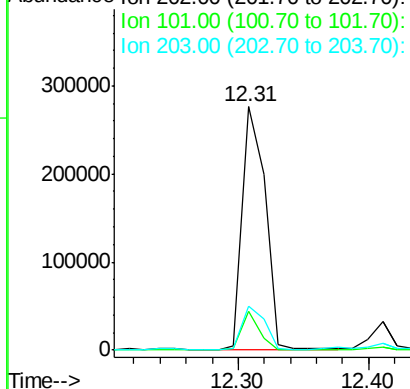
Lab File: BF087139.D

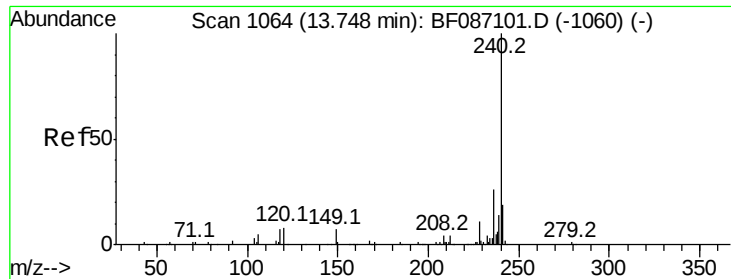
Acq: 18 May 2016 9:02

Tgt Ion:	202	Resp:	336672
Ion Ratio	Lower	Upper	
202	100		
101	16.0	0.0	35.4
203	17.9	0.0	38.1



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: 20.00 ng

RT: 13.74 min Scan# 1063

Delta R.T. -0.02 min

Lab File: BF087139.D

Acq: 18 May 2016 9:02

Instrument :

BNA_F

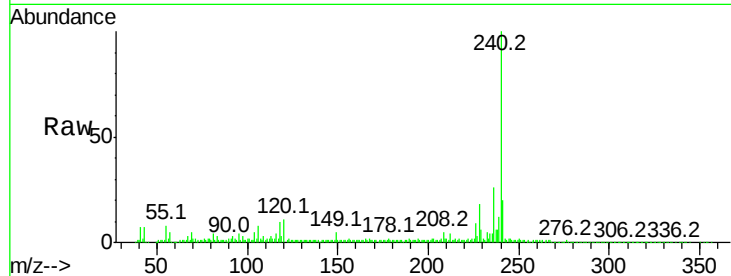
ClientSampleId :

TP42-4.5FTRE

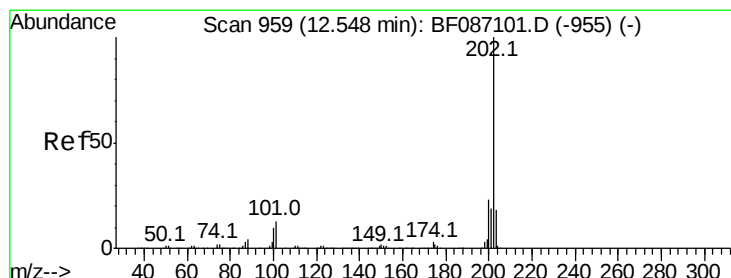
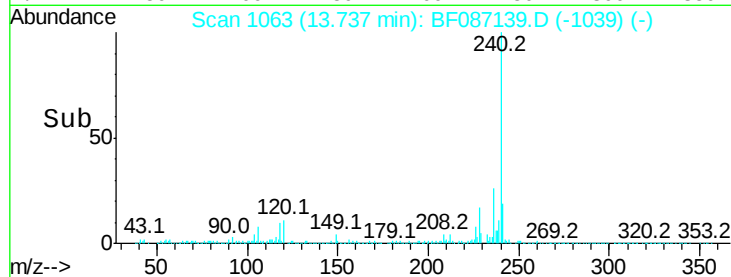
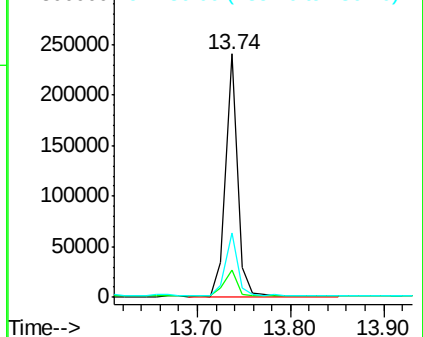
Tot Ion:	240	Resp:	212859
Ion Ratio	Lower	Upper	
240	100		
120	11.1	11.2	16.8#
236	26.3	21.2	31.8

Manual Integrations
APPROVED

sohil
5/18/2016 7:00:20 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: 18.97 ng

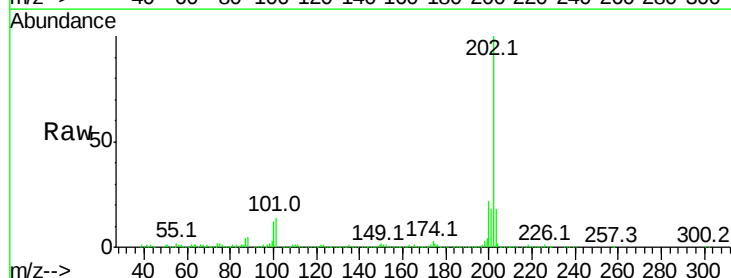
RT: 12.54 min Scan# 958

Delta R.T. -0.02 min

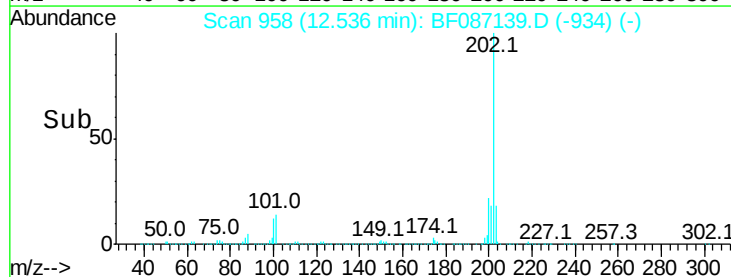
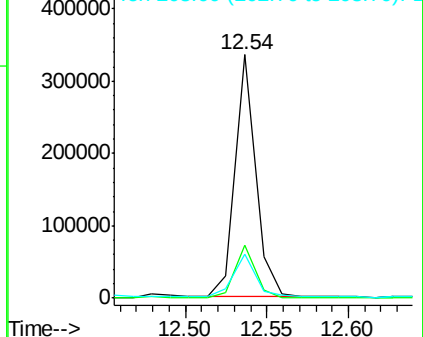
Lab File: BF087139.D

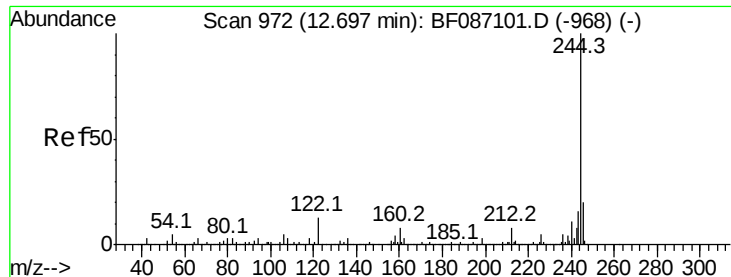
Acq: 18 May 2016 9:02

Tgt Ion:	202	Resp:	291726
Ion Ratio	Lower	Upper	
202	100		
200	21.7	17.7	26.5
203	18.1	14.2	21.4



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: 46.36 ng

RT: 12.68 min Scan# 971

Delta R.T. -0.02 min

Lab File: BF087139.D

Acq: 18 May 2016 9:02

Instrument :

BNA_F

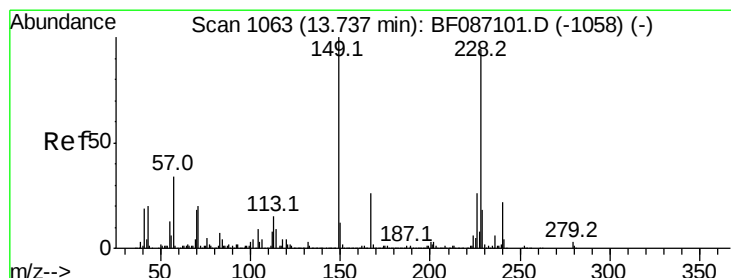
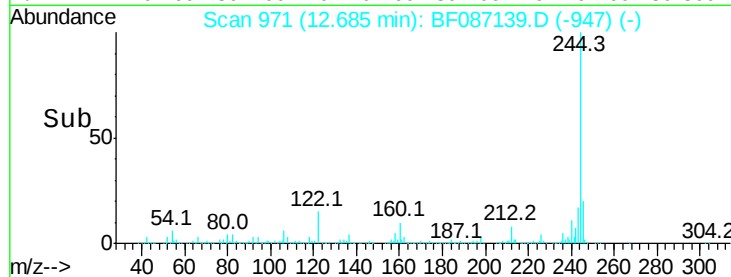
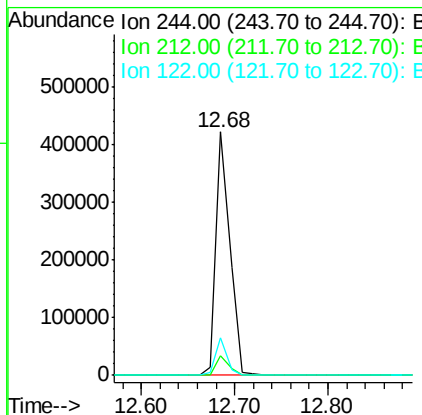
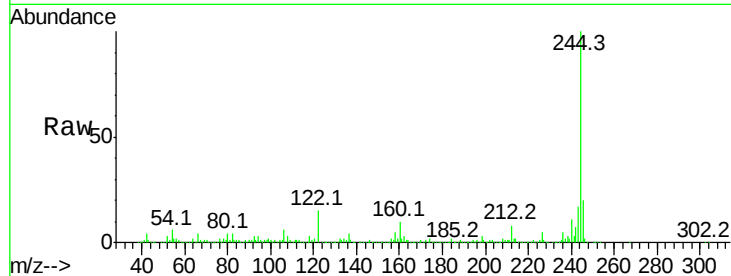
ClientSampleId :

TP42-4.5FTRE

Tot Ion	Ratio	Lower	Upper
244	100		
212	7.8	6.2	9.2
122	15.5	12.0	18.0

Manual Integrations
APPROVED

sohil
5/18/2016 7:00:20 PM



#80

Benzo(a)anthracene

Concen: 12.63 ng m

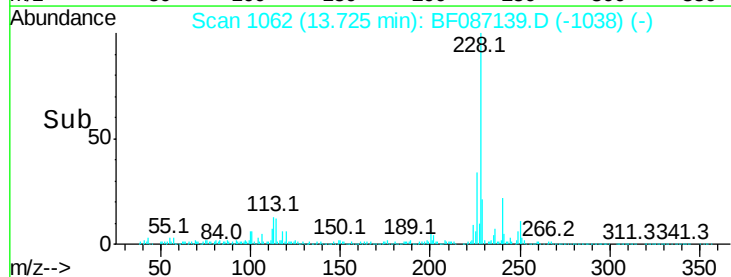
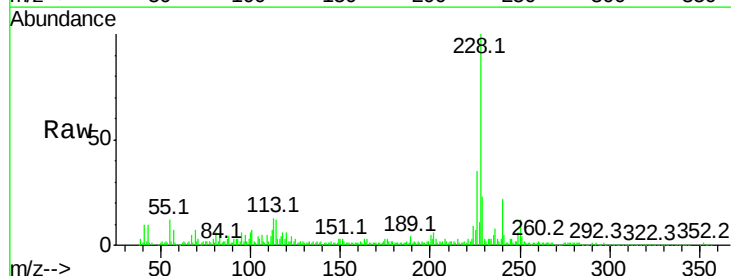
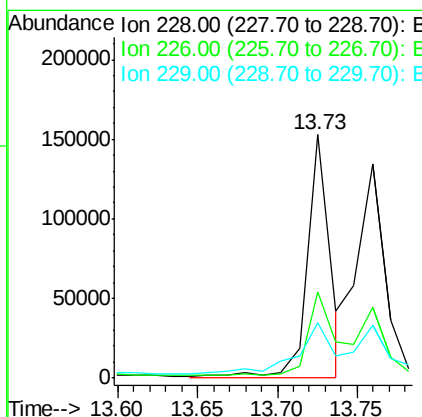
RT: 13.73 min Scan# 1062

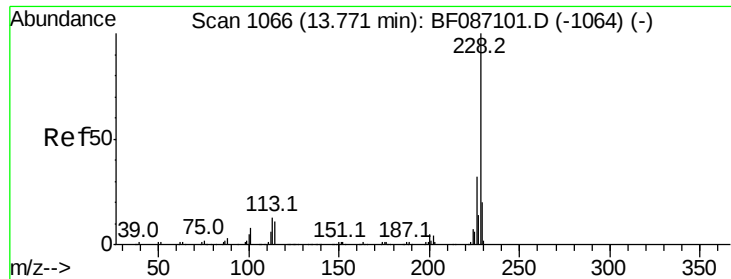
Delta R.T. -0.02 min

Lab File: BF087139.D

Acq: 18 May 2016 9:02

Tgt Ion	Ratio	Lower	Upper
228	100		
226	35.1	22.5	33.7#
229	22.6	16.6	25.0





#82

Chrysene

Concen: 13.97 ng/mL

RT: 13.76 min Scan# 1065

Delta R.T. -0.02 min

Lab File: BF087139.D

Acq: 18 May 2016 9:02

Instrument :

BNA_F

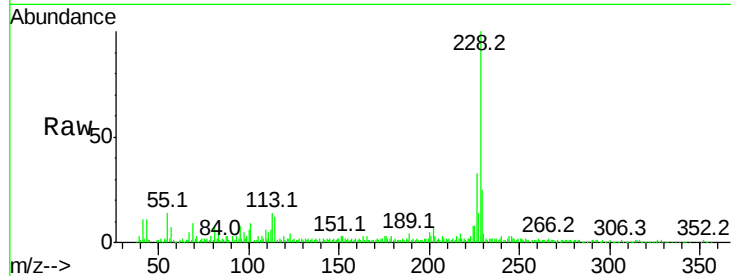
ClientSampleId :

TP42-4.5FTRE

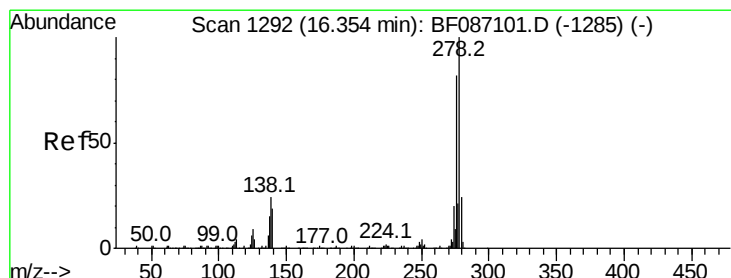
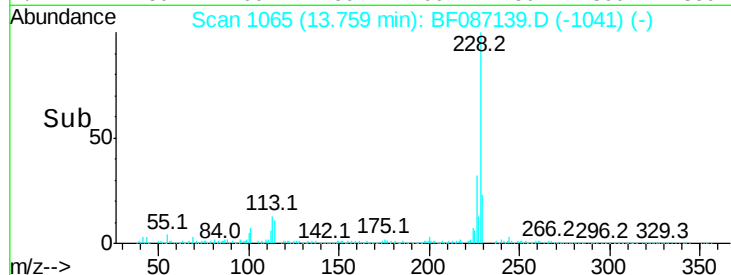
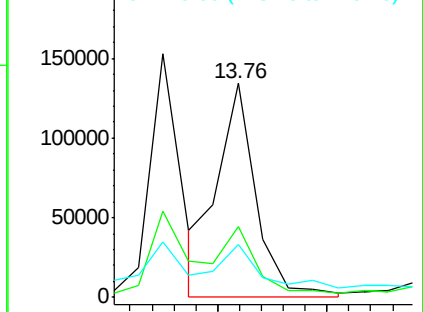
Tot Ion:	228	Resp:	166390
Ion Ratio	Lower	Upper	
228	100		
226	33.0	24.4	36.6
229	24.6	15.8	23.8

Manual Integrations
APPROVED

sohil
5/18/2016 7:00:20 PM



Abundance Ion 228.00 (227.70 to 228.70): E
Ion 226.00 (225.70 to 226.70): E
Ion 229.00 (228.70 to 229.70): E



#85

Indeno(1,2,3-cd)pyrene

Concen: 5.17 ng/mL

RT: 16.37 min Scan# 1293

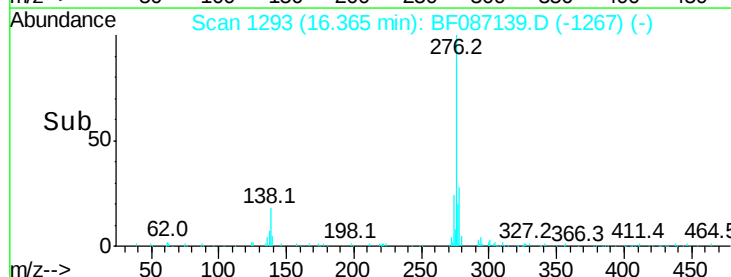
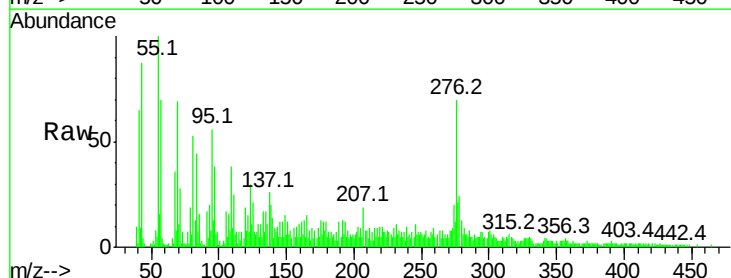
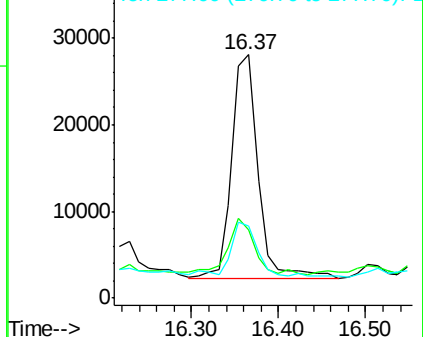
Delta R.T. -0.00 min

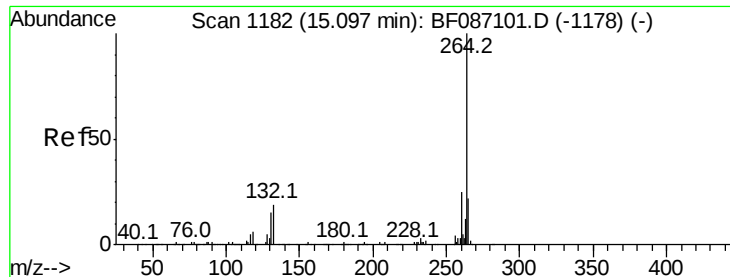
Lab File: BF087139.D

Acq: 18 May 2016 9:02

Tgt Ion:	276	Resp:	53987
Ion Ratio	Lower	Upper	
276	100		
138	26.0	25.6	38.4
277	23.9	20.5	30.7

Abundance Ion 276.00 (275.70 to 276.70): E
Ion 138.00 (137.70 to 138.70): E
Ion 277.00 (276.70 to 277.70): E





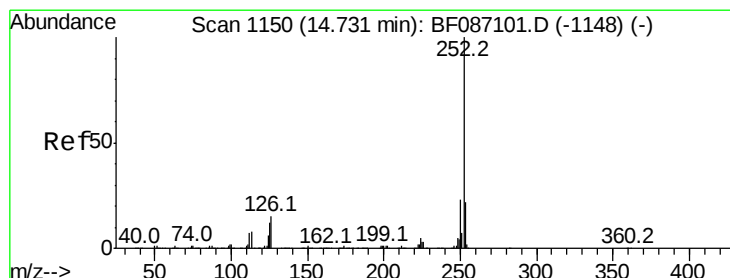
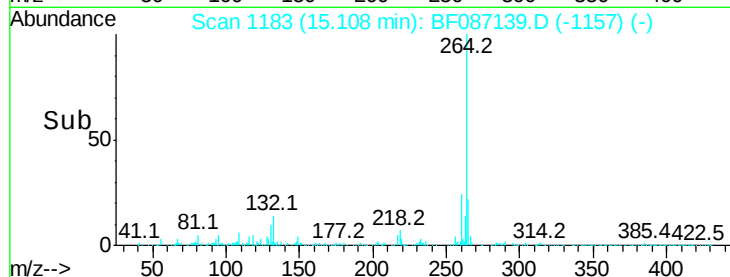
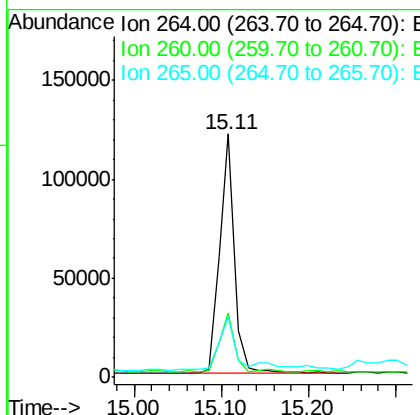
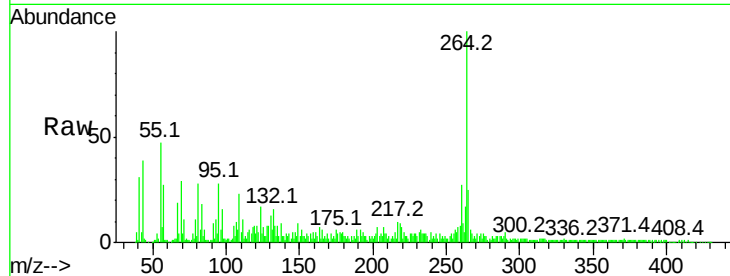
#86
Pervlene-d12
Concen: 20.00 ng
RT: 15.11 min Scan# 1183
Delta R.T. -0.00 min
Lab File: BF087139.D
Acq: 18 May 2016 9:02

Instrument :
BNA_F
ClientSampleId :
TP42-4.5FTRE

Tot Ion	Ratio	Resp	Lower	Upper
264	100			
260	26.5	19.5	29.3	
265	25.0	17.3	25.9	

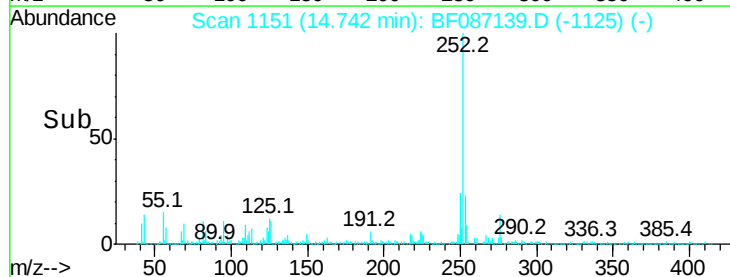
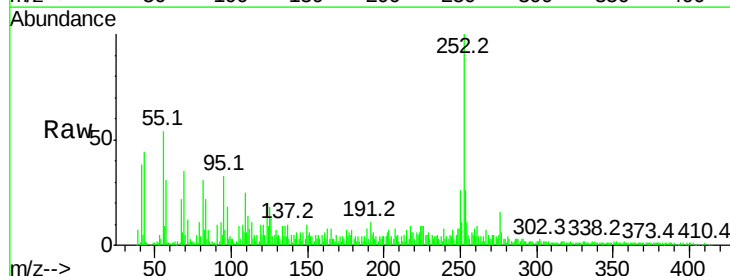
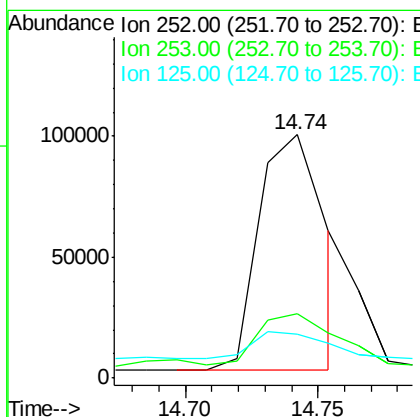
Manual Integrations
APPROVED

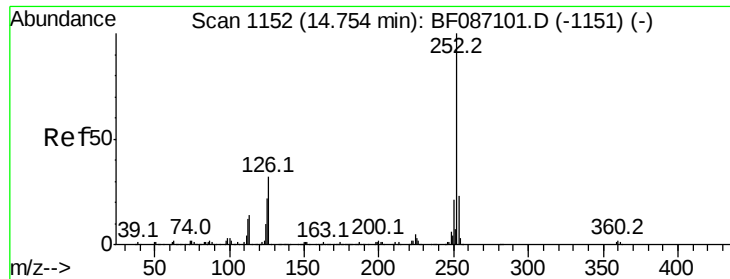
sohil
5/18/2016 7:00:20 PM



#87
Benzo(b)fluoranthene
Concen: 17.49 ng m
RT: 14.74 min Scan# 1151
Delta R.T. -0.00 min
Lab File: BF087139.D
Acq: 18 May 2016 9:02

Tgt Ion	Ratio	Resp	Lower	Upper
252	100			
253	26.5	17.8	26.6	
125	18.2	11.4	17.0	





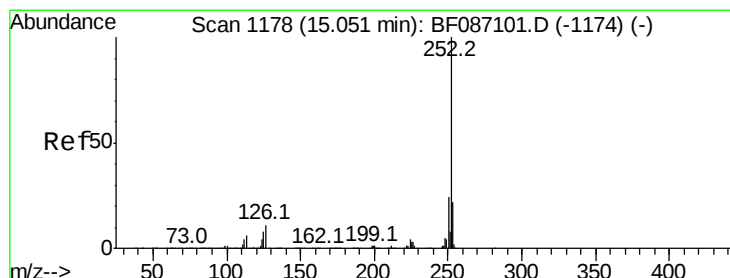
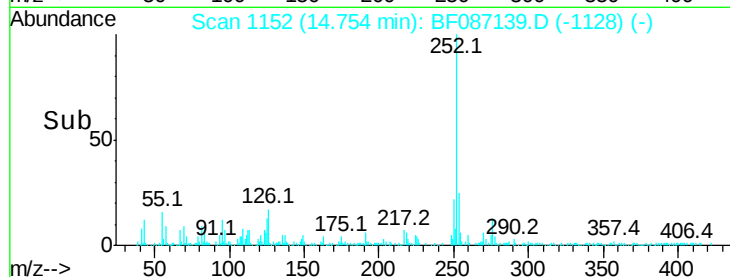
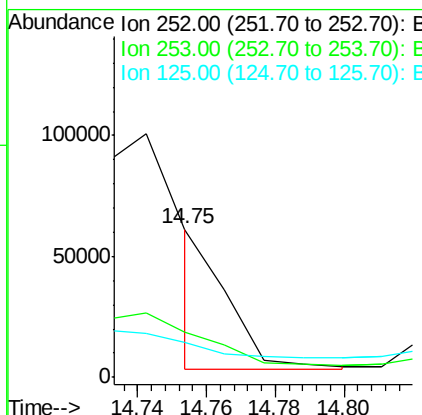
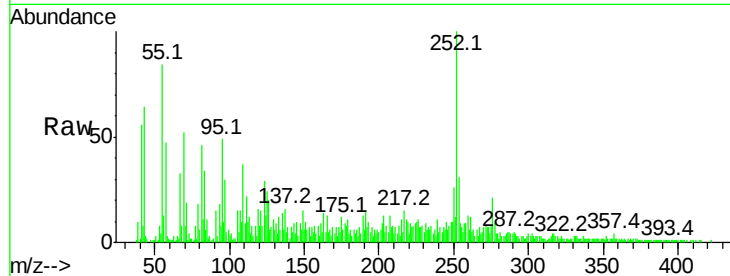
#88
Benzo(k)fluoranthene
Concen: 3.78 ng m
RT: 14.75 min Scan# 1152
Delta R.T. -0.02 min
Lab File: BF087139.D
Acq: 18 May 2016 9:02

Instrument :
BNA_F
ClientSampled :
TP42-4.5FTRE

Tot Ion	Ratio	Lower	Upper
252	100		
253	30.6	17.8	26.6#
125	23.6	9.1	13.7#

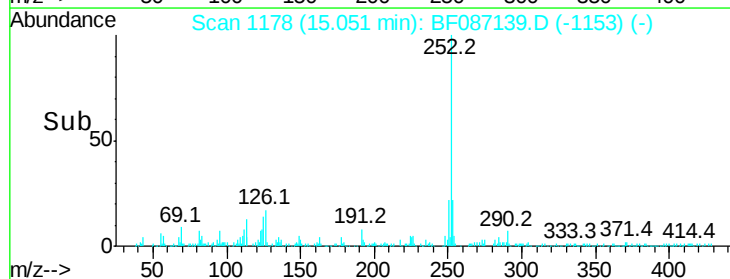
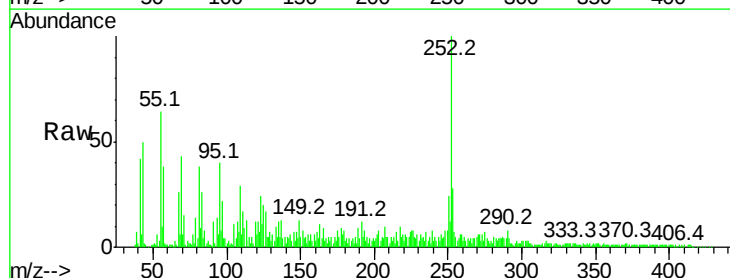
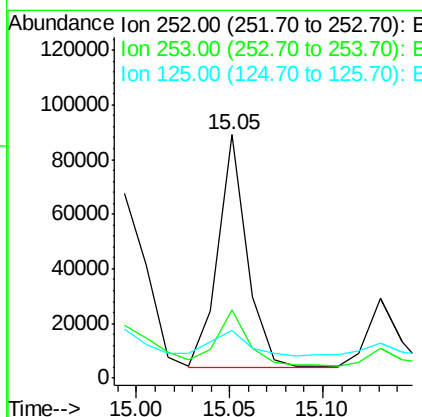
Manual Integrations
APPROVED

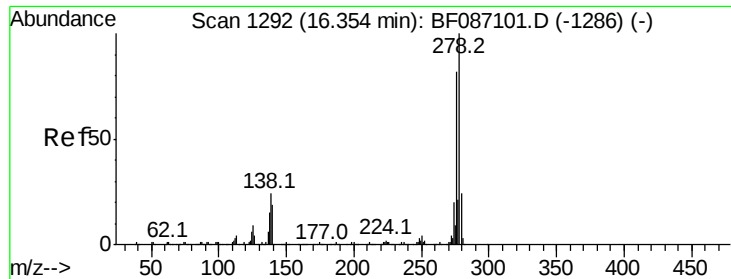
sohil
5/18/2016 7:00:20 PM



#89
Benzo(a)pyrene
Concen: 11.71 ng
RT: 15.05 min Scan# 1178
Delta R.T. -0.01 min
Lab File: BF087139.D
Acq: 18 May 2016 9:02

Tgt Ion	Ratio	Lower	Upper
252	100		
253	28.3	17.2	25.8#
125	19.6	9.0	13.6#





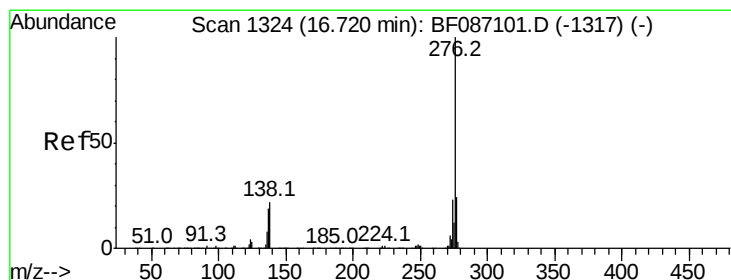
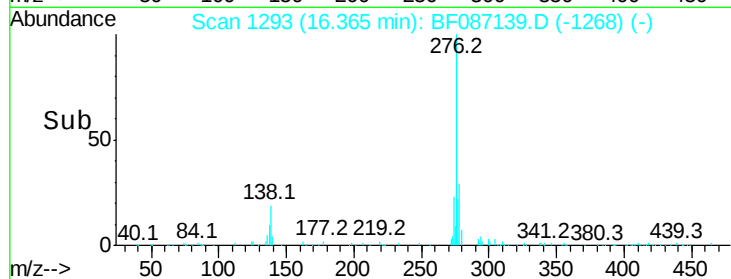
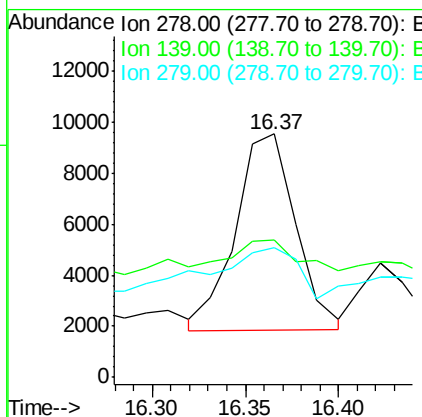
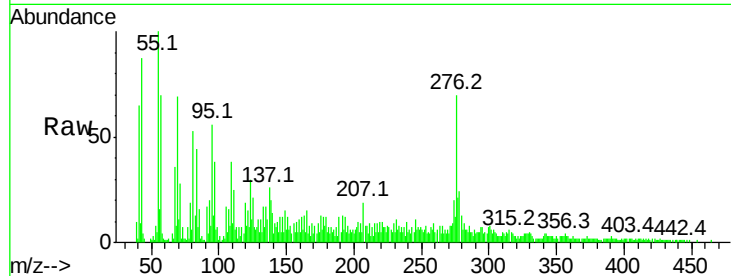
#90
Dibenzo(a,h)anthracene
Concen: 2.55 ng
RT: 16.37 min Scan# 1293
Delta R.T. -0.01 min
Lab File: BF087139.D
Acq: 18 May 2016 9:02

Instrument :
BNA_F
ClientSampleId :
TP42-4.5FTRE

Tot Ion	Ratio	Lower	Upper
278	100		
139	56.7	16.6	24.8#
279	53.5	19.6	29.4#

Manual Integrations
APPROVED

sohil
5/18/2016 7:00:20 PM



#91
Benzo(g,h,i)perylene
Concen: 7.19 ng
RT: 16.74 min Scan# 1326
Delta R.T. -0.00 min
Lab File: BF087139.D
Acq: 18 May 2016 9:02

Tgt Ion	Ratio	Lower	Upper
276	100		
277	30.5	19.6	29.4#
138	24.9	23.6	35.4

