

Data Path : Z:\HPCHEM1\BNA F\DATA\BF040416\
 Data File : BF086047.D
 Acq On : 4 Apr 2016 19:50
 Operator : UM/SJ
 Sample : H2180-06
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 TK2-4-20160401

Manual Integrations
 APPROVED

Sohil
 4/5/2016 6:39:54 PM

Quant Time: Apr 05 11:49:15 2016
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF040216.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Apr 01 23:17:06 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.76	152	124982	20.00	ng	-0.01
21) Naphthalene-d8	8.05	136	439765	20.00	ng	-0.01
38) Acenaphthene-d10	9.80	164	185534	20.00	ng	-0.01
63) Phenanthrene-d10	11.29	188	287823	20.00	ng	-0.01
75) Chrysene-d12	13.93	240	204208	20.00	ng	0.00
86) Perylene-d12	15.33	264	163708	20.00	ng	0.00

System Monitoring Compounds						
5) 2-Fluorophenol	5.37	112	1004825	137.42	ng	0.00
7) Phenol-d6	6.42	99	1256827	135.32	ng	0.00
23) Nitrobenzene-d5	7.33	82	724437	97.15	ng	-0.01
41) 2,4,6-Tribromophenol	10.59	330	165009	94.76	ng	-0.01
44) 2-Fluorobiphenyl	9.13	172	1086850	97.40	ng	-0.01
78) Terphenyl-d14	12.86	244	714779	82.28	ng	-0.01

Target Compounds						Qvalue
31) Naphthalene	8.06	128	196579	8.89	ng	98
37) 2-Methylnaphthalene	8.76	142	47950	3.32	ng	97
48) Acenaphthylene	9.66	152	51031	2.75	ng	99
49) Dimethylphthalate	9.53	163	146554	10.66	ng	98
51) Acenaphthene	9.84	154	149559	13.54	ng	100
54) Dibenzofuran	10.01	168	97986	6.72	ng	97
57) Fluorene	10.35	166	115813	9.29	ng	99
70) Phenanthrene	11.31	178	928679	59.14	ng	99
71) Anthracene	11.36	178	265193	16.12	ng	99
72) Carbazole	11.52	167	114234	8.08	ng	98
74) Fluoranthene	12.50	202	990972	60.68	ng	96
77) Pvrene	12.73	202	941657	65.44	ng	99
80) Benzo(a)anthracene	13.92	228	452978m	37.63	ng	
82) Chrysene	13.95	228	365428m	31.52	ng	
85) Indeno(1,2,3-cd)pyrene	16.69	276	156109	16.59	ng	# 93
87) Benzo(b)fluoranthene	14.93	252	393890m	38.25	ng	
88) Benzo(k)fluoranthene	14.95	252	157135m	17.23	ng	
89) Benzo(a)pyrene	15.28	252	280804	30.77	ng	96
90) Dibenzo(a,h)anthracene	16.69	278	36406	4.96	ng	# 86
91) Benzo(a,h,i)perylene	17.09	276	150240	21.15	ng	98

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

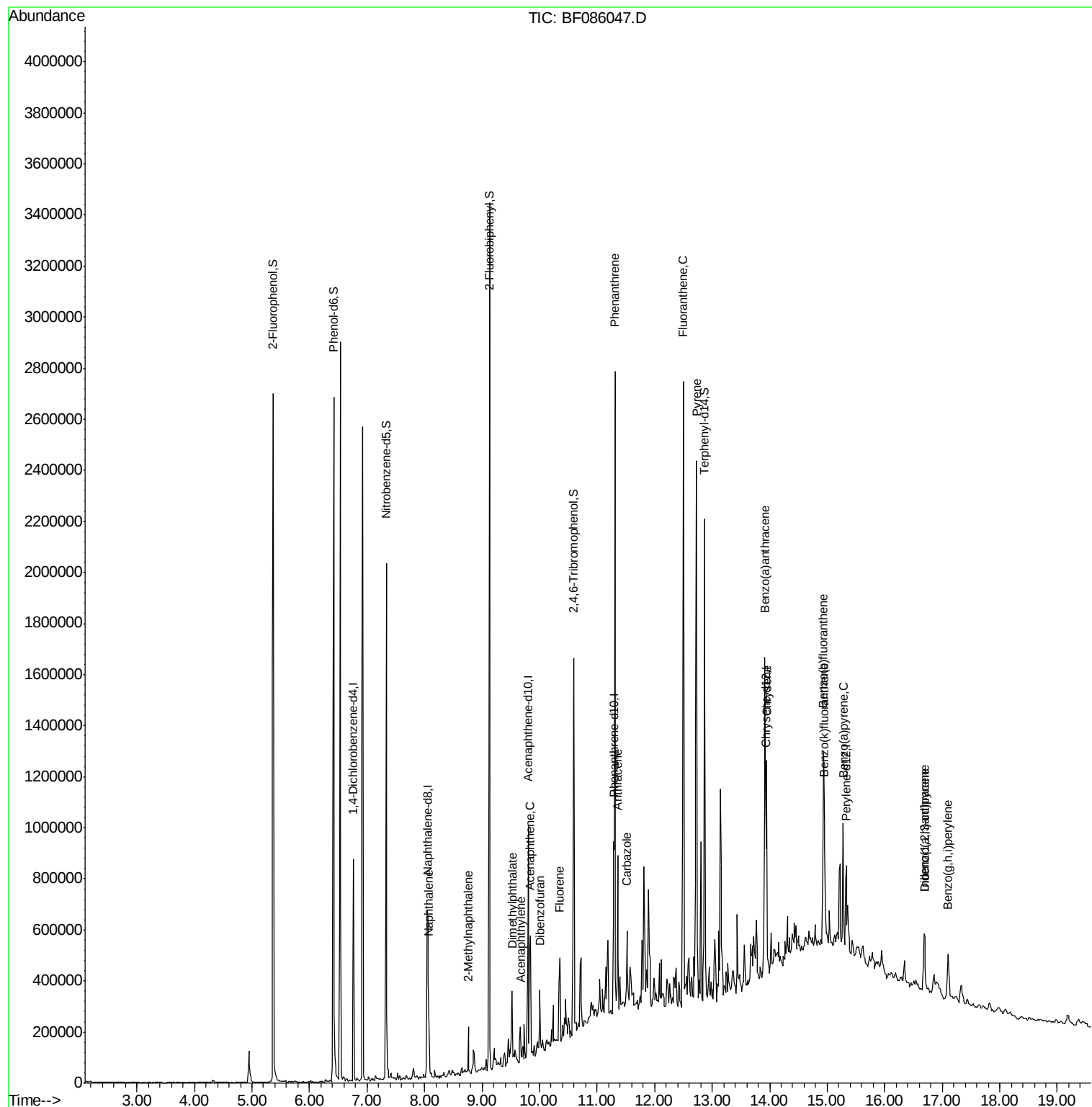
Data Path : Z:\HPCHEM1\BNA F\DATA\BF040416\
Data File : BF086047.D
Acq On : 4 Apr 2016 19:50
Operator : UM/SJ
Sample : H2180-06
Misc :
ALS Vial : 13 Sample Multiplier: 1

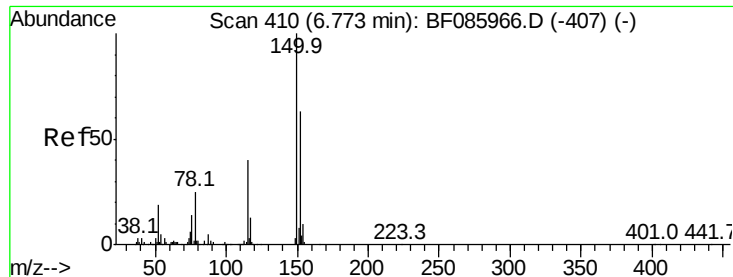
Instrument :
BNA_F
ClientSampleId :
TK2-4-20160401

Manual Integrations
APPROVED

Sohil
4/5/2016 6:39:54 PM

Quant Time: Apr 05 11:49:15 2016
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF040216.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Apr 01 23:17:06 2016
Response via : Initial Calibration





#1

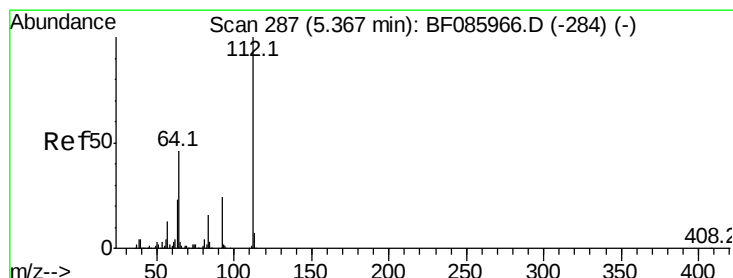
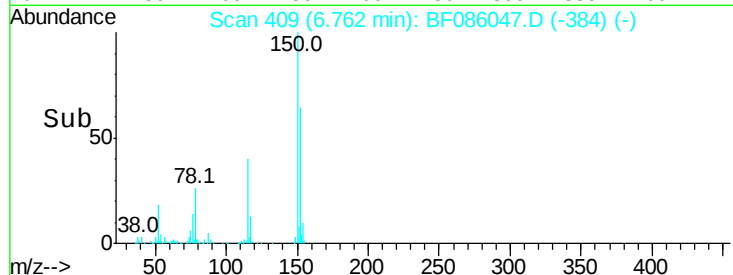
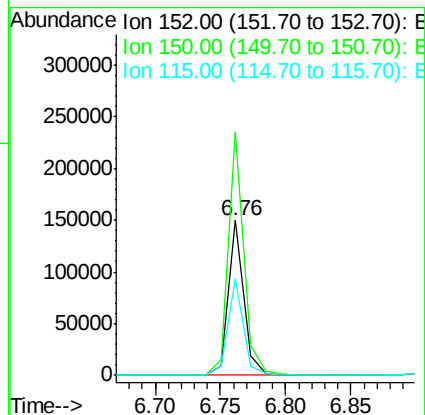
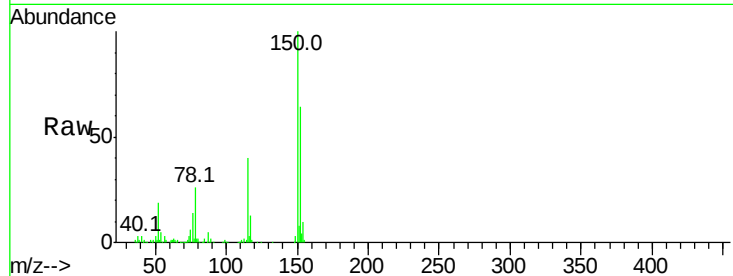
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 6.76 min Scan# 409
Delta R.T. -0.01 min
Lab File: BF086047.D
Acq: 4 Apr 2016 19:50

Instrument :
BNA_F
ClientSampleId :
TK2-4-20160401

Tot Ion	Ratio	Lower	Upper
152	100		
150	157.2	124.2	186.2
115	62.3	47.0	70.6

Manual Integrations
APPROVED

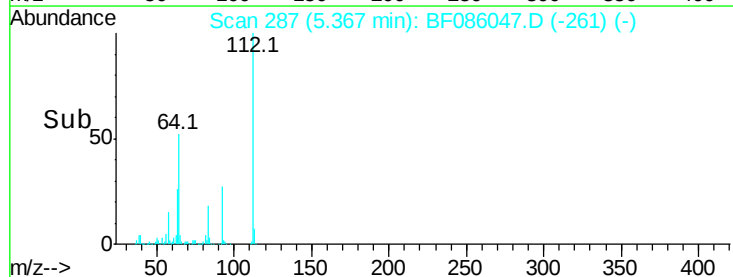
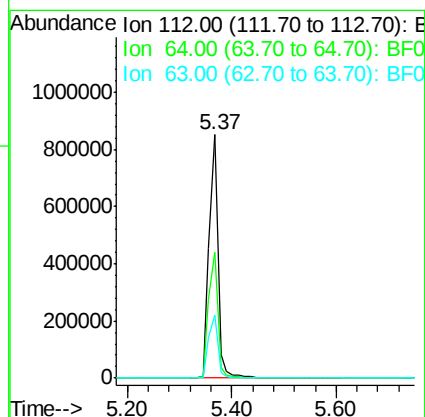
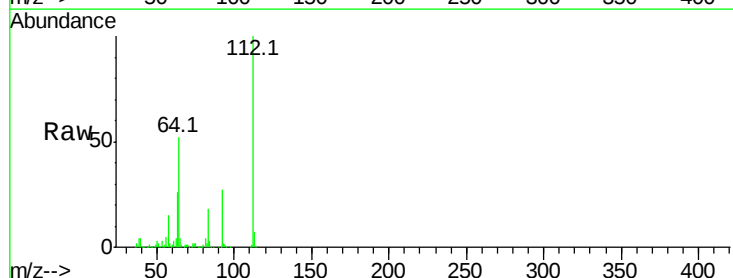
Sohil
4/5/2016 6:39:54 PM

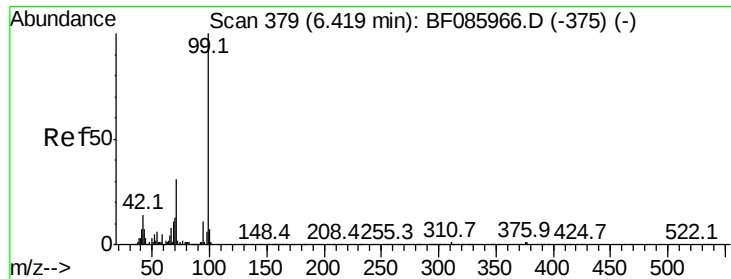


#5

2-Fluorophenol
Concen: 137.42 ng
RT: 5.37 min Scan# 287
Delta R.T. 0.00 min
Lab File: BF086047.D
Acq: 4 Apr 2016 19:50

Tgt Ion	Ratio	Lower	Upper
112	100		
64	51.8	39.9	59.9
63	26.1	20.2	30.2





#7

Phenol-d6

Concen: 135.32 ng

RT: 6.42 min Scan# 379

Delta R.T. 0.00 min

Lab File: BF086047.D

Acq: 4 Apr 2016 19:50

Instrument :

BNA_F

ClientSampleId :

TK2-4-20160401

Tot Ion: 99 Resp: 1256827

Ion Ratio Lower Upper

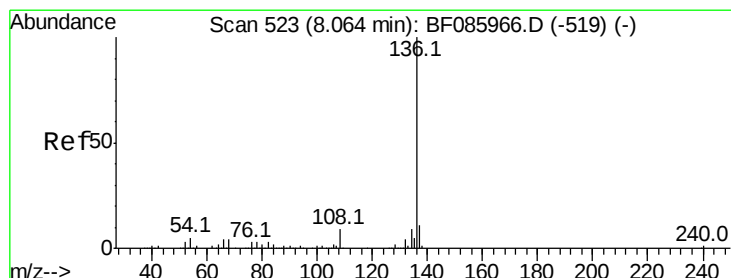
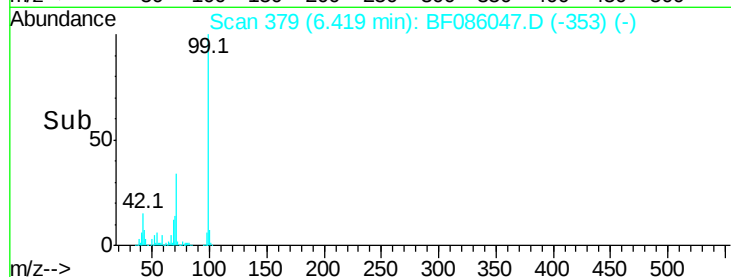
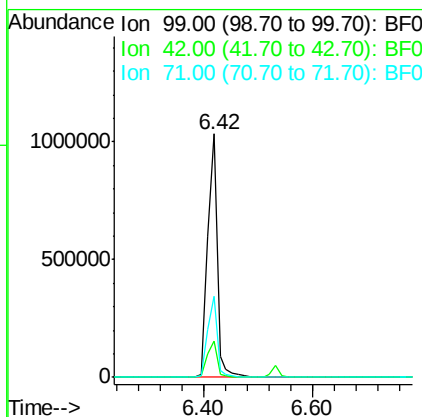
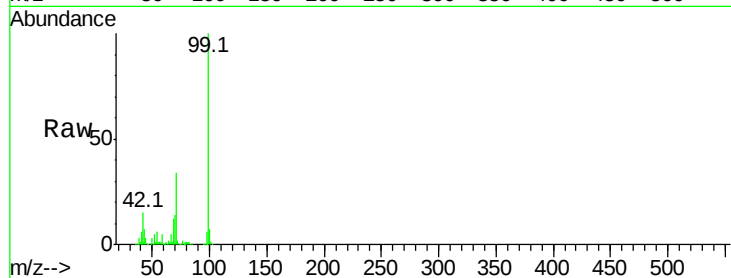
99 100

42 14.7 11.1 16.7

71 33.6 24.9 37.3

Manual Integrations
APPROVED

Sohil
4/5/2016 6:39:54 PM



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 8.05 min Scan# 522

Delta R.T. -0.01 min

Lab File: BF086047.D

Acq: 4 Apr 2016 19:50

Tgt Ion: 136 Resp: 439765

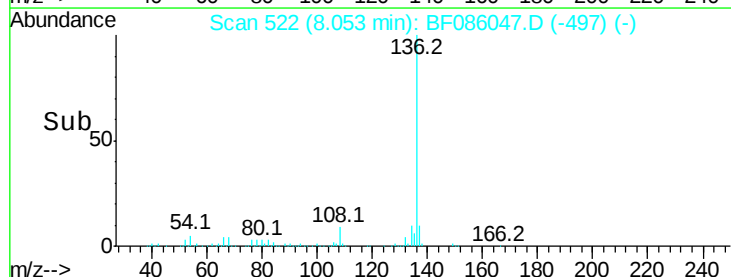
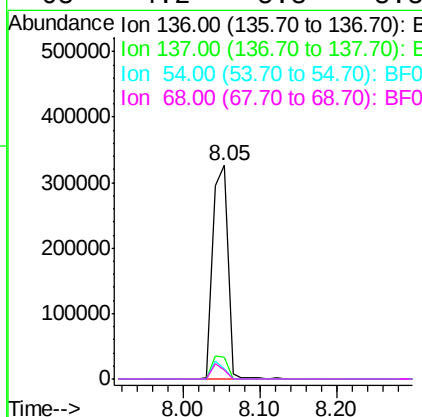
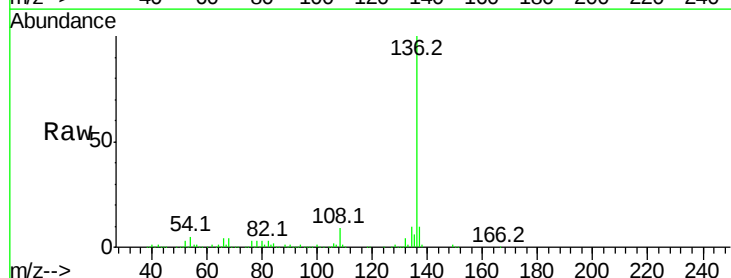
Ion Ratio Lower Upper

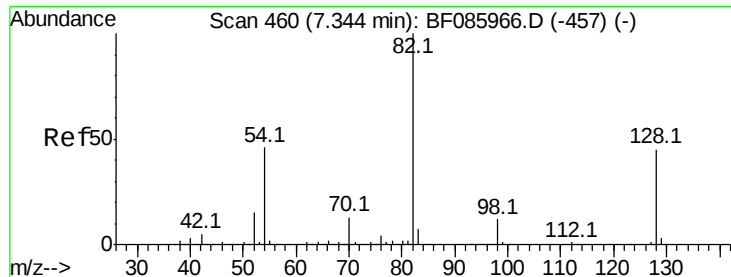
136 100

137 10.5 9.1 13.7

54 4.8 7.4 11.0#

68 4.2 5.8 8.8#





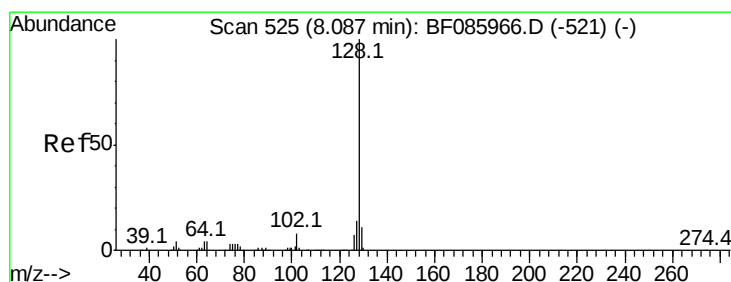
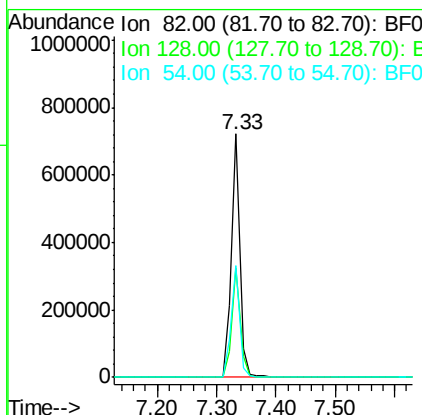
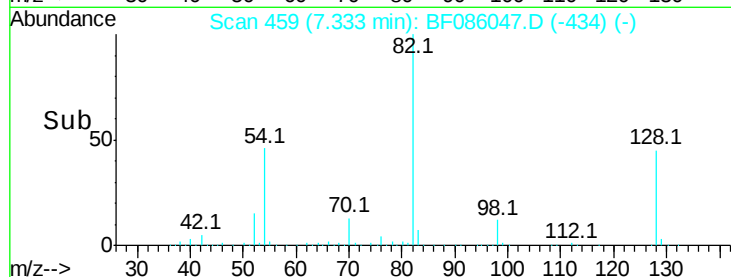
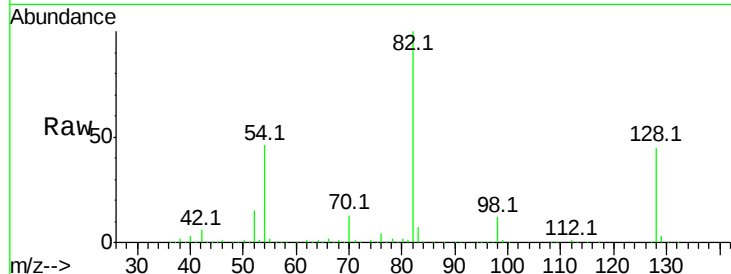
#23
 Nitrobenzene-d5
 Concen: 97.15 ng
 RT: 7.33 min Scan# 459
 Delta R.T. -0.01 min
 Lab File: BF086047.D
 Acq: 4 Apr 2016 19:50

Instrument :
 BNA_F
 ClientSampleId :
 TK2-4-20160401

Tot Ion:	82	Resp:	724437
Ion Ratio	Lower	Upper	
82	100		
128	45.1	41.8	62.8
54	45.8	33.4	50.0

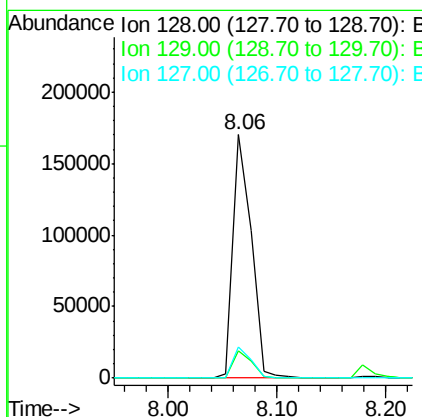
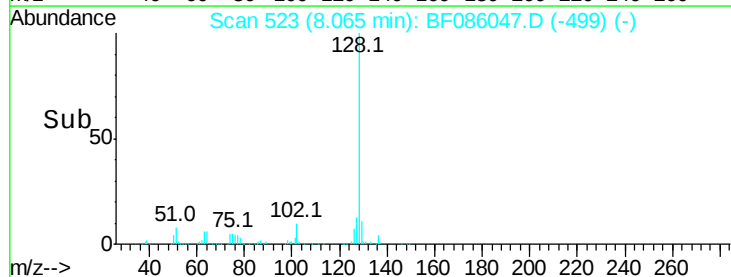
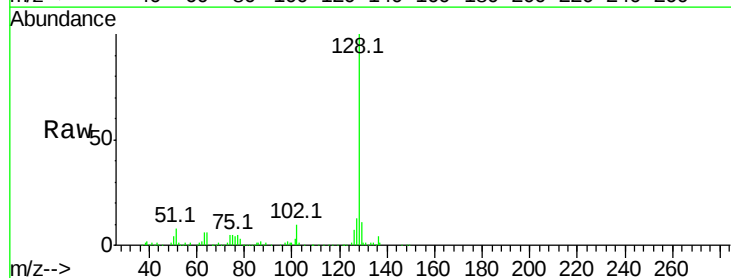
Manual Integrations
 APPROVED

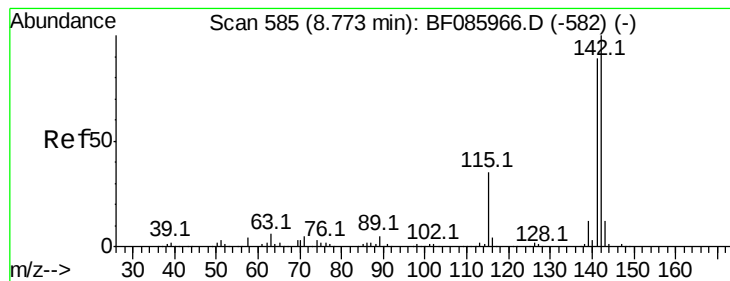
Sohil
 4/5/2016 6:39:54 PM



#31
 Naphthalene
 Concen: 8.89 ng
 RT: 8.06 min Scan# 523
 Delta R.T. -0.02 min
 Lab File: BF086047.D
 Acq: 4 Apr 2016 19:50

Tgt Ion:	128	Resp:	196579
Ion Ratio	Lower	Upper	
128	100		
129	11.3	9.4	14.0
127	12.9	11.0	16.6





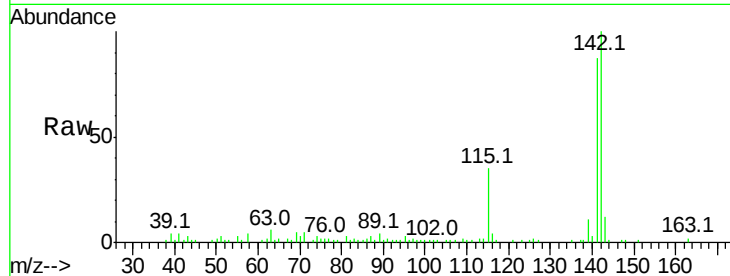
#37
2-Methylnaphthalene
Concen: 3.32 ng
RT: 8.76 min Scan# 584
Delta R.T. -0.01 min
Lab File: BF086047.D
Acq: 4 Apr 2016 19:50

Instrument :
BNA_F
ClientSampleId :
TK2-4-20160401

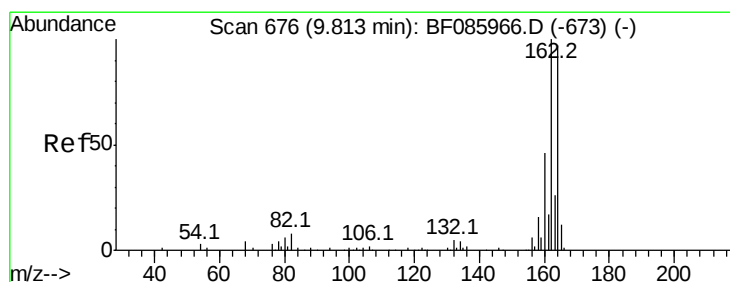
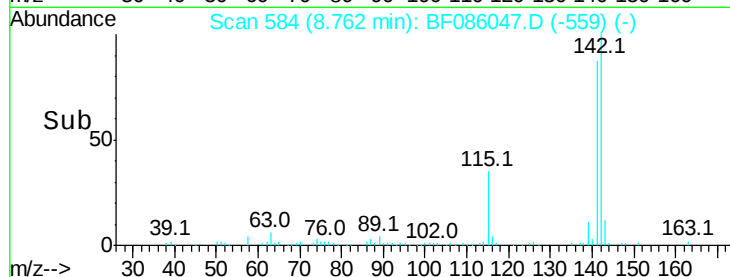
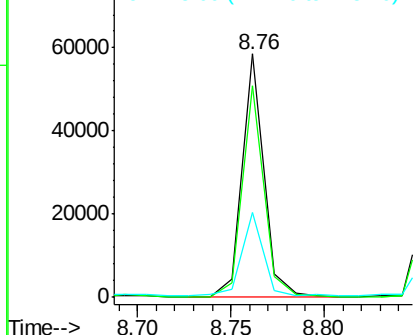
Tot Ion	Ratio	Lower	Upper
142	100		
141	86.7	71.6	107.4
115	34.8	26.8	40.2

Manual Integrations
APPROVED

Sohil
4/5/2016 6:39:54 PM

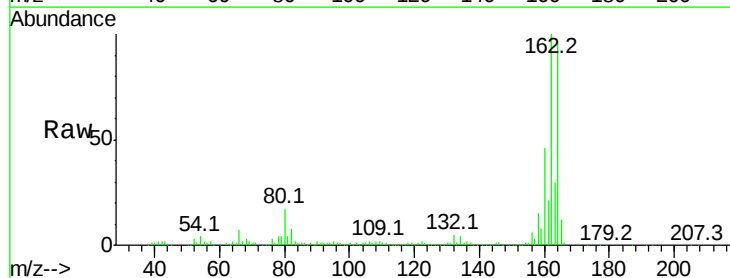


Abundance Ion 142.00 (141.70 to 142.70): E
Ion 141.00 (140.70 to 141.70): E
Ion 115.00 (114.70 to 115.70): E

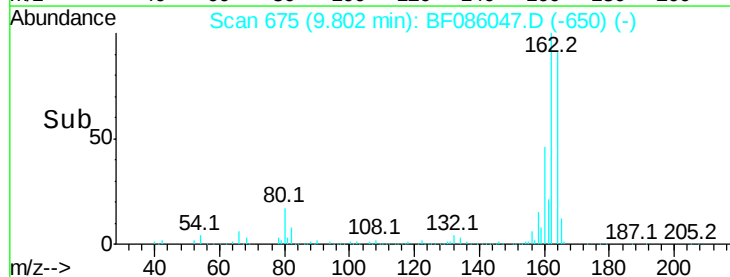
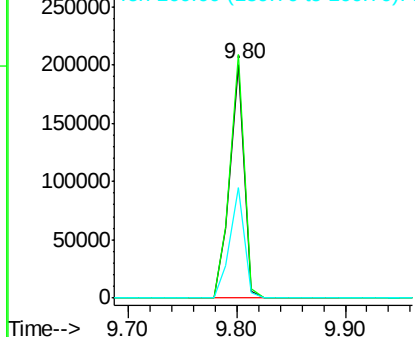


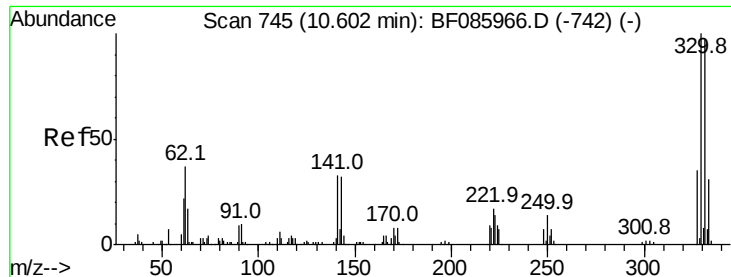
#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 9.80 min Scan# 675
Delta R.T. -0.01 min
Lab File: BF086047.D
Acq: 4 Apr 2016 19:50

Tgt Ion	Ratio	Lower	Upper
164	100		
162	104.3	82.1	123.1
160	47.6	37.4	56.2



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





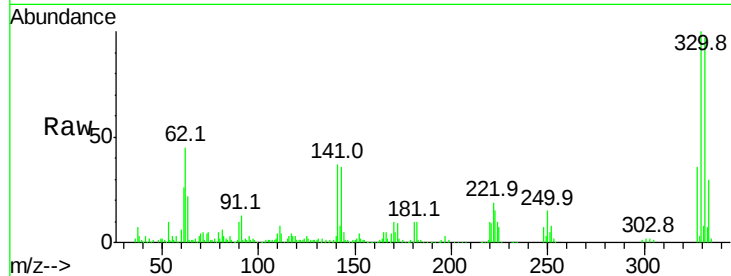
#41
 2,4,6-Tribromophenol
 Concen: 94.76 ng
 RT: 10.59 min Scan# 744
 Delta R.T. -0.01 min
 Lab File: BF086047.D
 Acq: 4 Apr 2016 19:50

Instrument :
 BNA_F
 ClientSampleId :
 TK2-4-20160401

Tot Ion	Ratio	Resp	Lower	Upper
330	100	165009		
332	97.6		78.2	117.2
141	40.2		31.5	47.3

Manual Integrations
 APPROVED

Sohil
 4/5/2016 6:39:54 PM

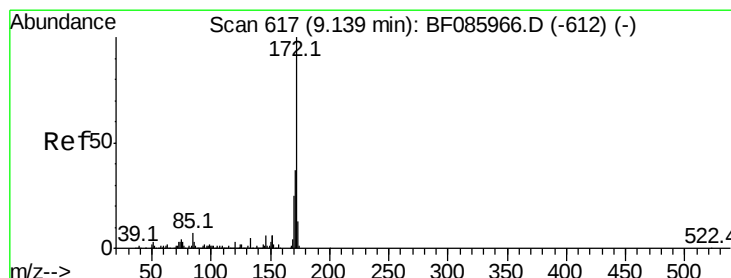
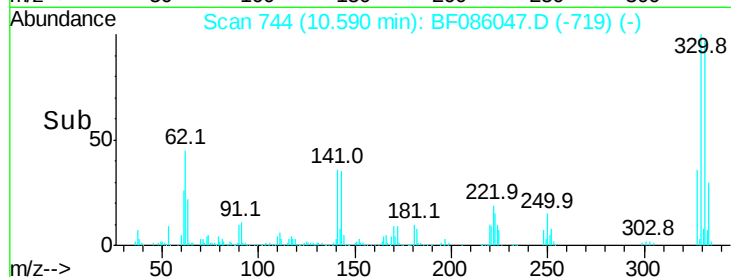
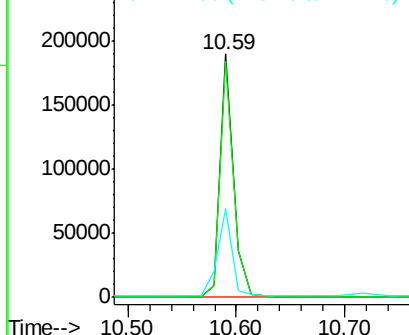


Abundance

Ion 329.80 (329.50 to 330.50): E

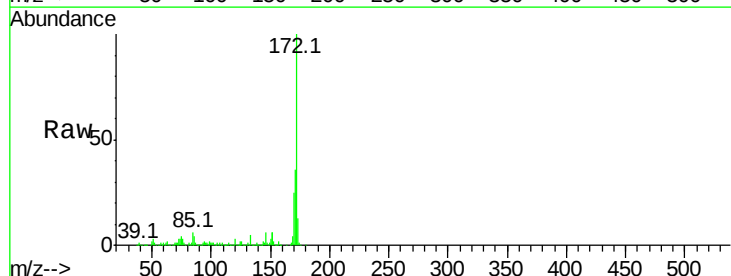
Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E



#44
 2-Fluorobiphenyl
 Concen: 97.40 ng
 RT: 9.13 min Scan# 616
 Delta R.T. -0.01 min
 Lab File: BF086047.D
 Acq: 4 Apr 2016 19:50

Tgt Ion	Ratio	Resp	Lower	Upper
172	100	1086850		
171	36.5		29.4	44.2
170	24.7		19.8	29.6

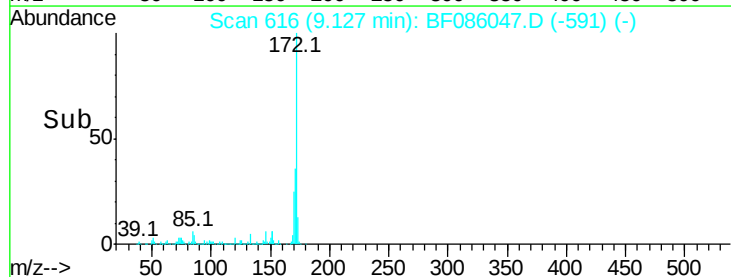
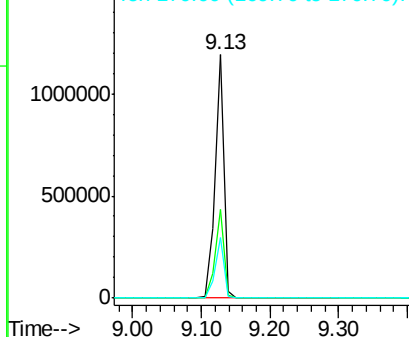


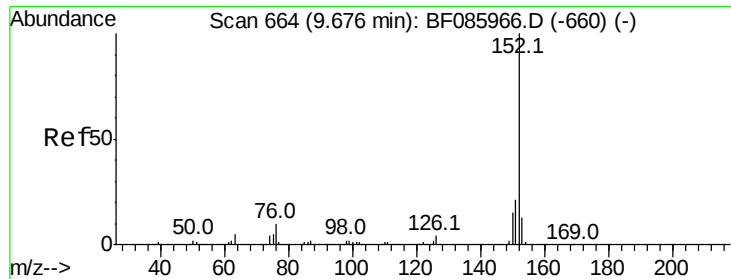
Abundance

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: 2.75 ng

RT: 9.66 min Scan# 663

Delta R.T. -0.01 min

Lab File: BF086047.D

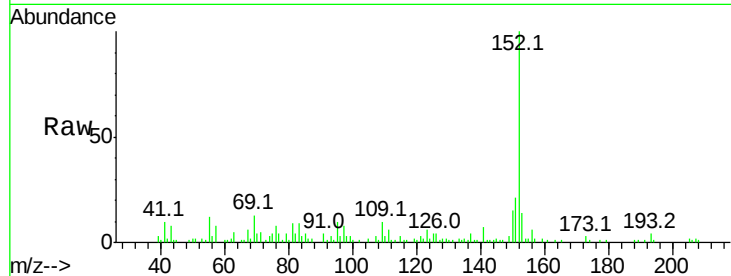
Acq: 4 Apr 2016 19:50

Instrument :

BNA_F

ClientSampleId :

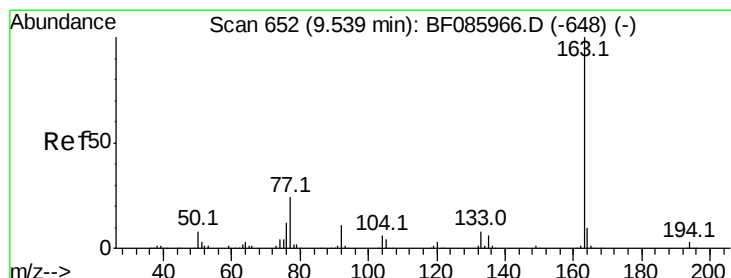
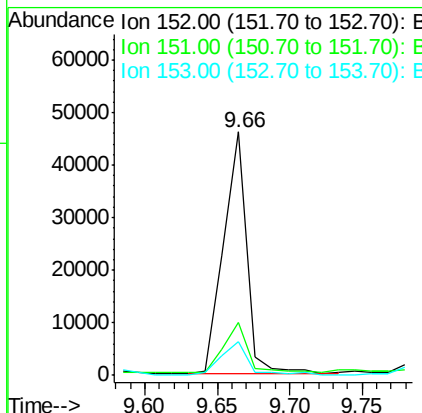
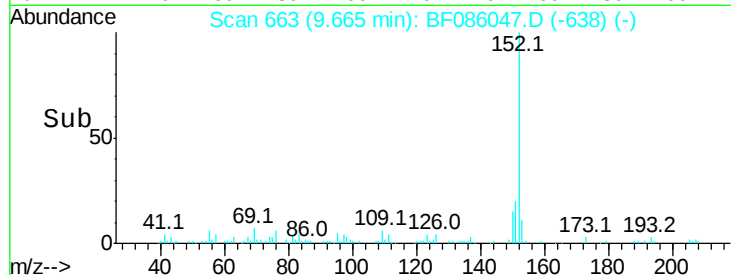
TK2-4-20160401



Tot Ion:	152	Resp:	51031
Ion Ratio	Lower	Upper	
152	100		
151	21.5	16.8	25.2
153	14.0	10.9	16.3

Manual Integrations
APPROVED

Sohil
4/5/2016 6:39:54 PM



#49

Dimethylphthalate

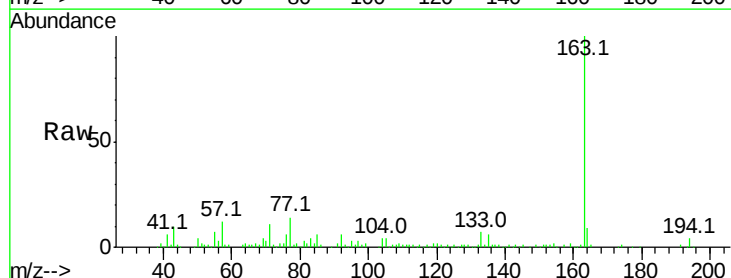
Concen: 10.66 ng

RT: 9.53 min Scan# 651

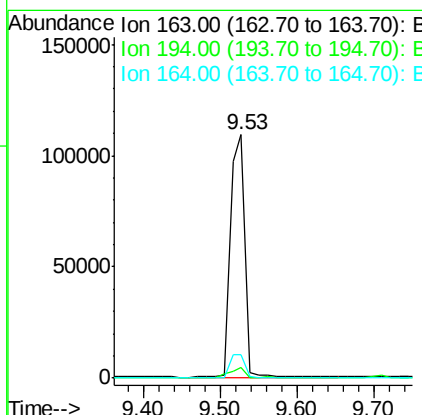
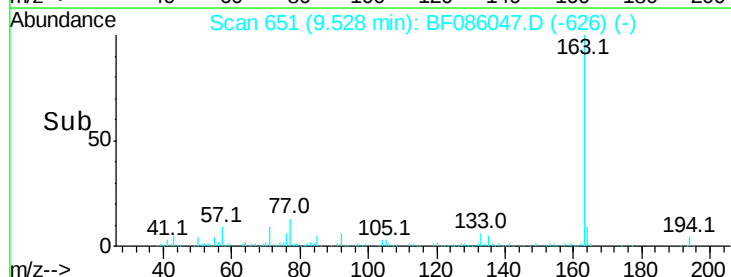
Delta R.T. -0.01 min

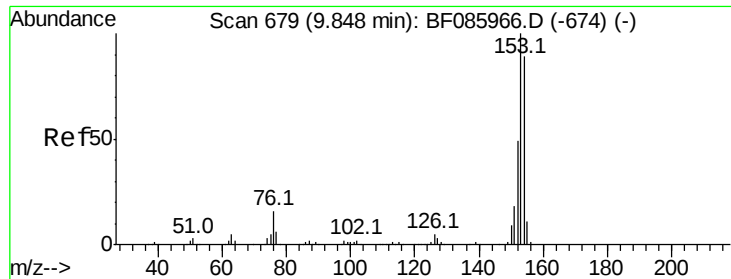
Lab File: BF086047.D

Acq: 4 Apr 2016 19:50



Tgt Ion:	163	Resp:	146554
Ion Ratio	Lower	Upper	
163	100		
194	4.1	2.9	4.3
164	9.4	8.3	12.5





#51

Acenaphthene

Concen: 13.54 ng

RT: 9.84 min Scan# 678

Delta R.T. -0.01 min

Lab File: BF086047.D

Acq: 4 Apr 2016 19:50

Instrument :

BNA_F

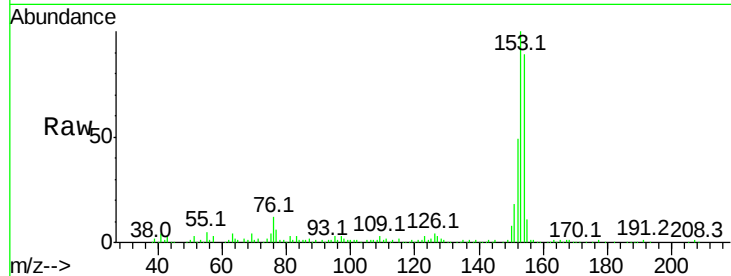
ClientSampleId :

TK2-4-20160401

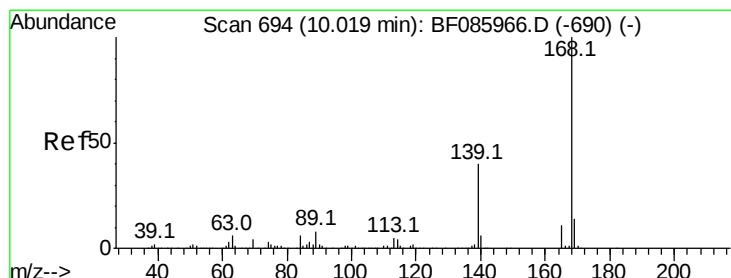
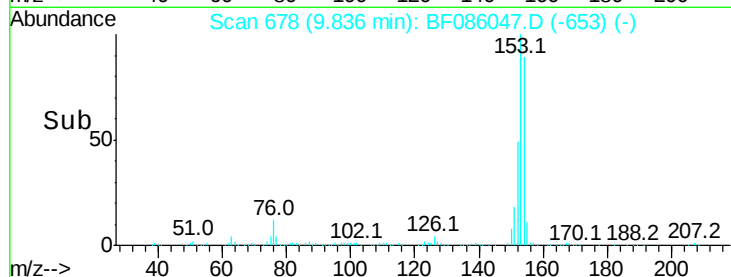
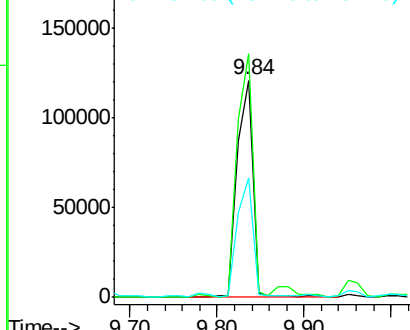
Tot Ion:	154	Resp:	149559
Ion Ratio	Lower	Upper	
154	100		
153	112.2	90.1	135.1
152	55.3	44.2	66.2

Manual Integrations
APPROVED

Sohil
4/5/2016 6:39:54 PM



Abundance Ion 154.00 (153.70 to 154.70): E
Ion 153.00 (152.70 to 153.70): E
Ion 152.00 (151.70 to 152.70): E



#54

Dibenzofuran

Concen: 6.72 ng

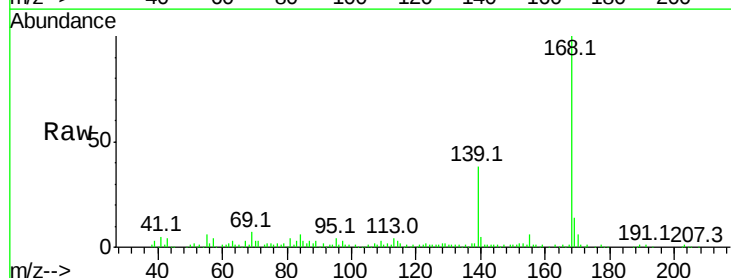
RT: 10.01 min Scan# 693

Delta R.T. -0.01 min

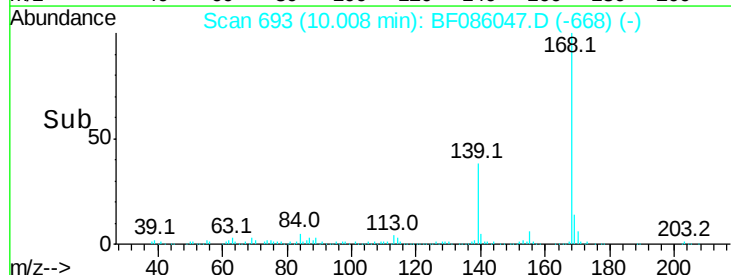
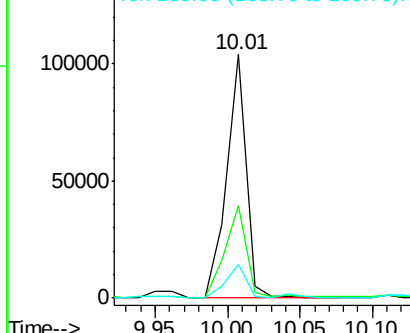
Lab File: BF086047.D

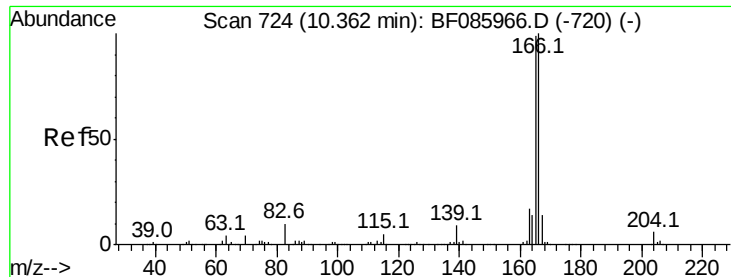
Acq: 4 Apr 2016 19:50

Tgt Ion:	168	Resp:	97986
Ion Ratio	Lower	Upper	
168	100		
139	37.9	31.9	47.9
169	14.0	11.0	16.6



Abundance Ion 168.00 (167.70 to 168.70): E
Ion 139.00 (138.70 to 139.70): E
Ion 169.00 (168.70 to 169.70): E





#57

Fluorene

Concen: 9.29 ng

RT: 10.35 min Scan# 723

Delta R.T. -0.01 min

Lab File: BF086047.D

Acq: 4 Apr 2016 19:50

Instrument :

BNA_F

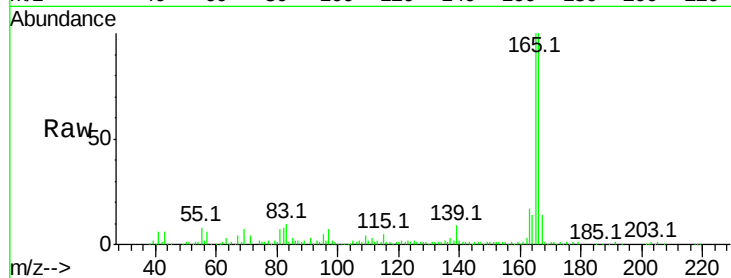
ClientSampleId :

TK2-4-20160401

Tot Ion	Ratio	Resp	Lower	Upper
166	100			
165	100.1	79.4	119.0	
167	13.8	11.0	16.4	

Manual Integrations
APPROVED

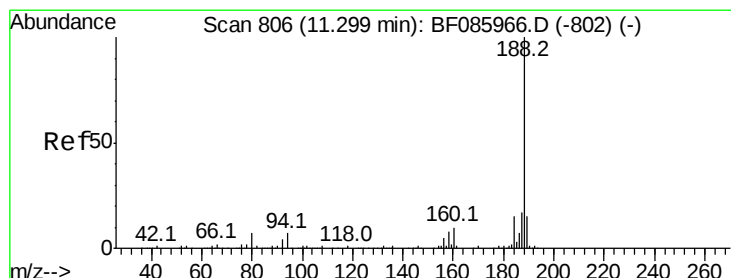
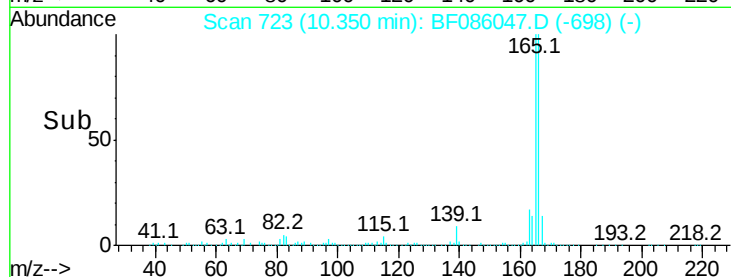
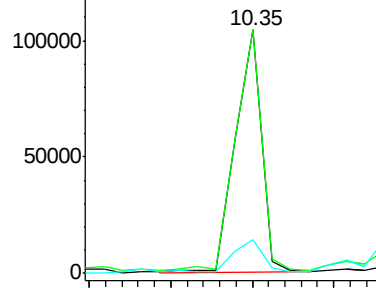
Sohil
4/5/2016 6:39:54 PM



Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E



#63

Phenanthrene-d10

Concen: 20.00 ng

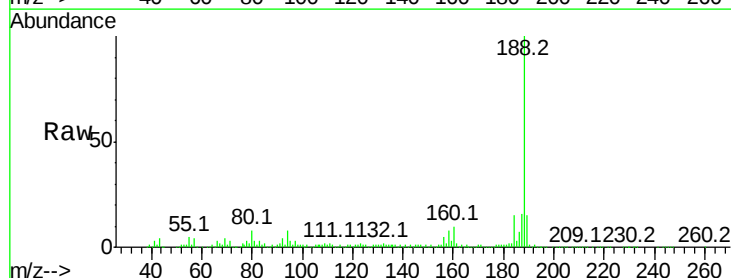
RT: 11.29 min Scan# 805

Delta R.T. -0.01 min

Lab File: BF086047.D

Acq: 4 Apr 2016 19:50

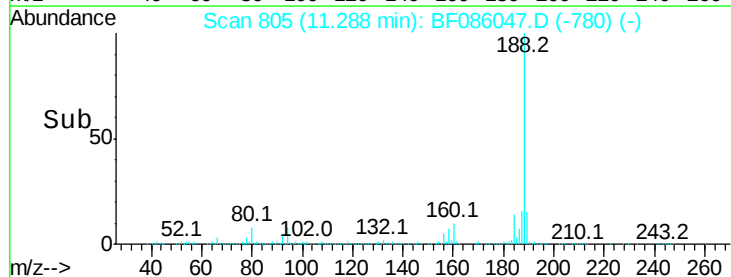
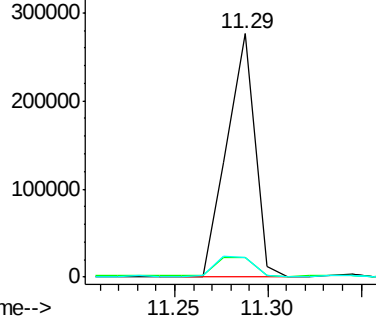
Tgt Ion	Ratio	Resp	Lower	Upper
188	100			
94	8.1	5.4	8.0#	
80	7.9	5.5	8.3	

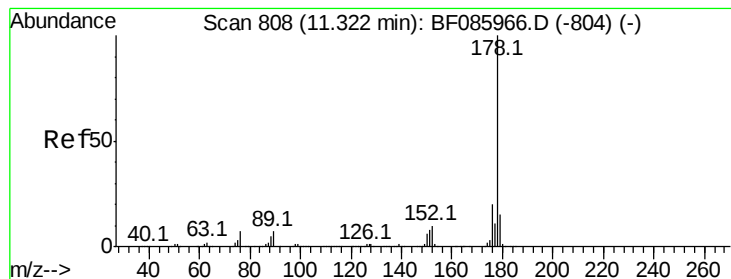


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF0

Ion 80.00 (79.70 to 80.70): BF0





#70

Phenanthrene

Concen: 59.14 ng

RT: 11.31 min Scan# 807

Delta R.T. -0.01 min

Lab File: BF086047.D

Acq: 4 Apr 2016 19:50

Instrument :

BNA_F

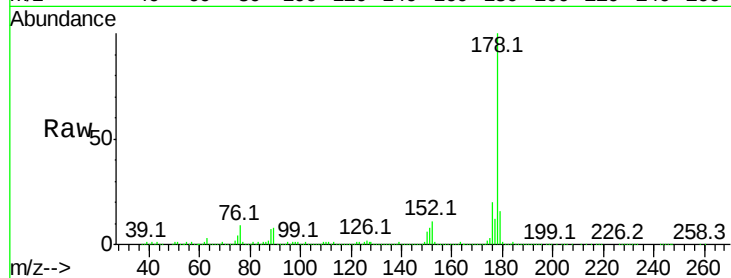
ClientSampleId :

TK2-4-20160401

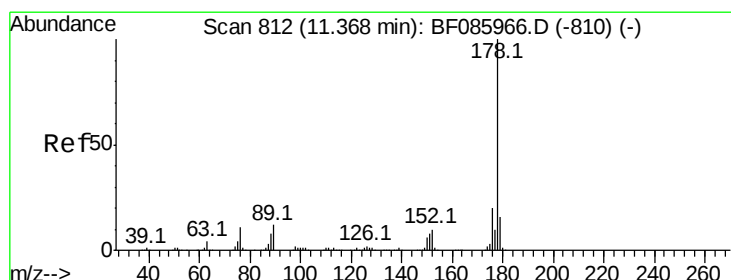
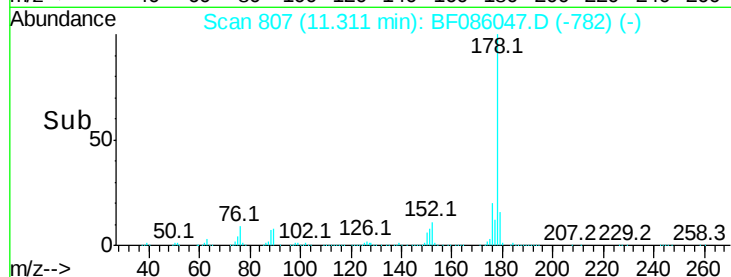
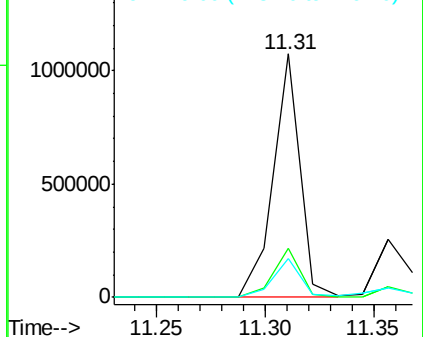
Tot Ion:	178	Resp:	928679
Ion Ratio	Lower	Upper	
178	100		
176	20.2	16.3	24.5
179	16.0	12.6	18.8

Manual Integrations
APPROVED

Sohil
4/5/2016 6:39:54 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



#71

Anthracene

Concen: 16.12 ng

RT: 11.36 min Scan# 811

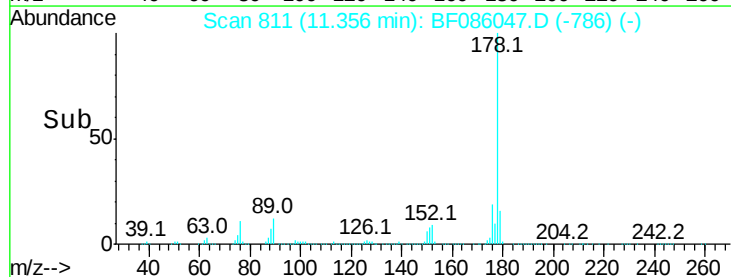
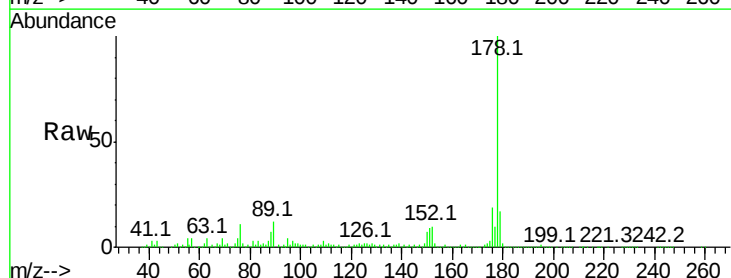
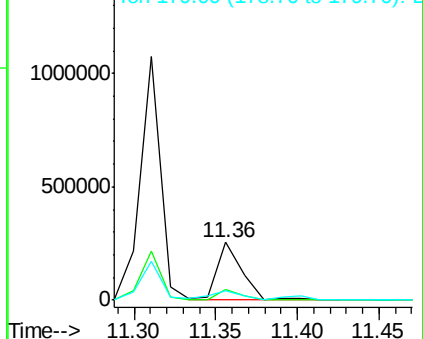
Delta R.T. -0.01 min

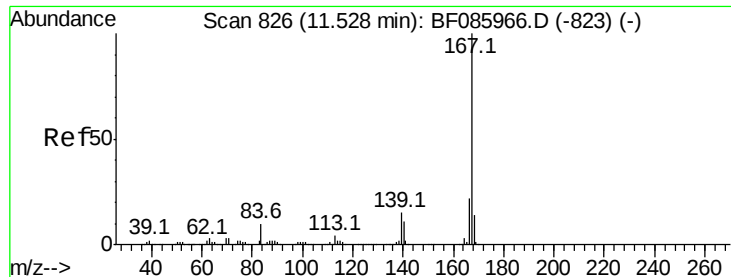
Lab File: BF086047.D

Acq: 4 Apr 2016 19:50

Tgt Ion:	178	Resp:	265193
Ion Ratio	Lower	Upper	
178	100		
176	19.5	15.9	23.9
179	16.6	13.0	19.4

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





#72

Carbazole

Concen: 8.08 ng

RT: 11.52 min Scan# 825

Delta R.T. -0.01 min

Lab File: BF086047.D

Acq: 4 Apr 2016 19:50

Instrument :

BNA_F

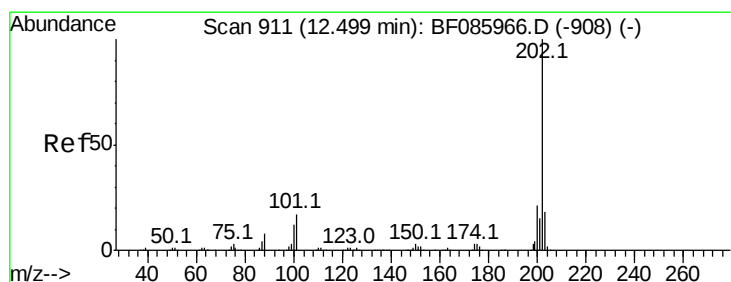
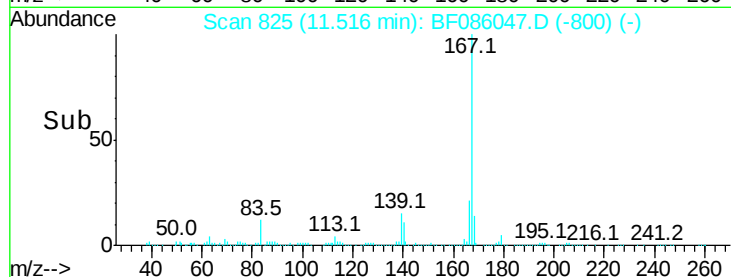
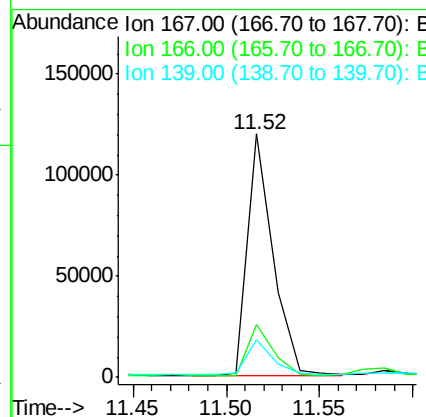
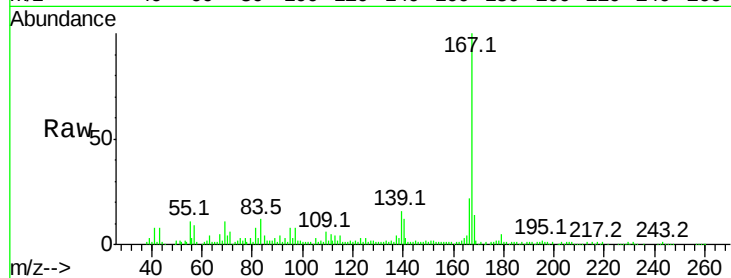
ClientSampleId :

TK2-4-20160401

Tot Ion:	167	Resp:	114234
Ion Ratio	Lower	Upper	
167	100		
166	21.6	17.8	26.8
139	15.6	11.6	17.4

Manual Integrations
APPROVED

Sohil
4/5/2016 6:39:54 PM



#74

Fluoranthene

Concen: 60.68 ng

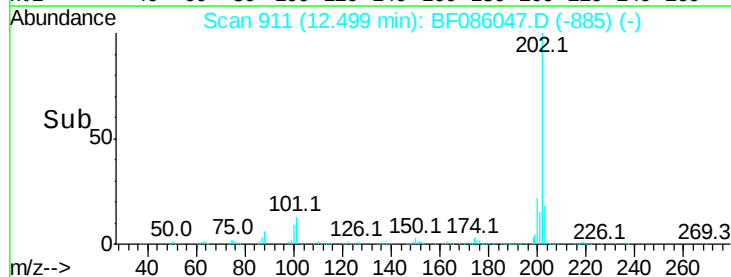
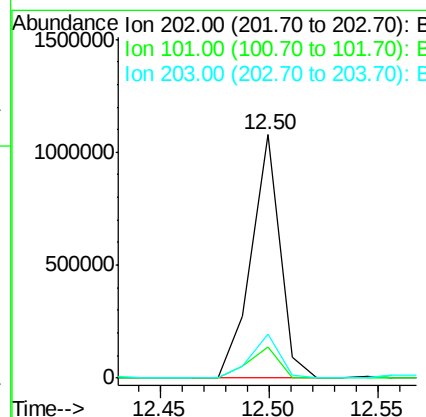
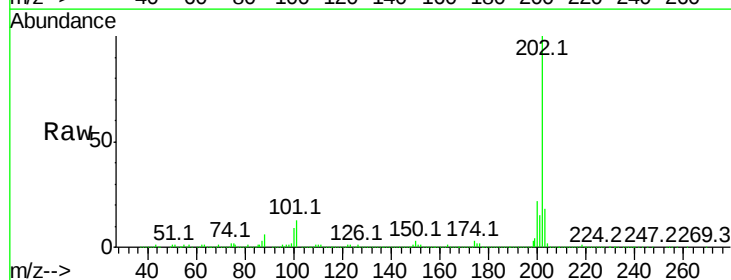
RT: 12.50 min Scan# 911

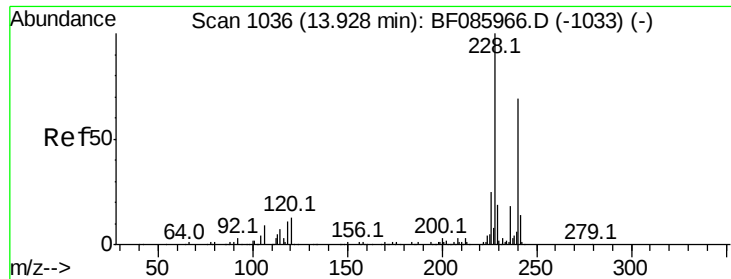
Delta R.T. 0.00 min

Lab File: BF086047.D

Acq: 4 Apr 2016 19:50

Tgt Ion:	202	Resp:	990972
Ion Ratio	Lower	Upper	
202	100		
101	12.8	0.0	36.6
203	18.1	0.0	38.1





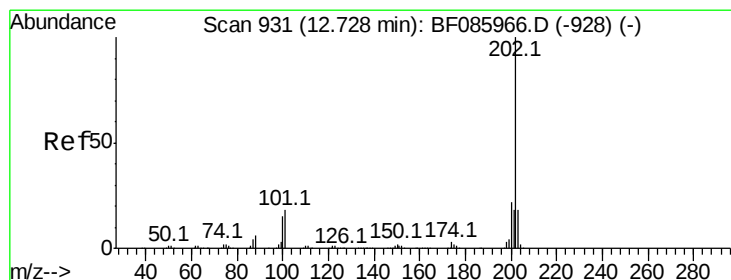
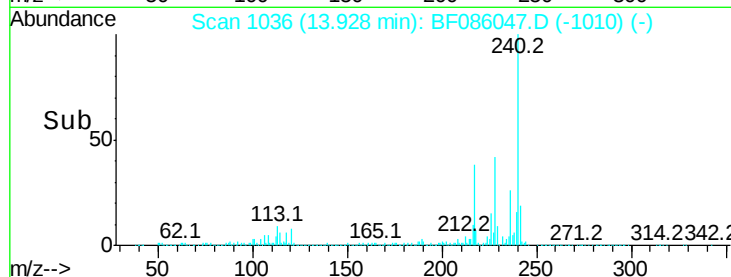
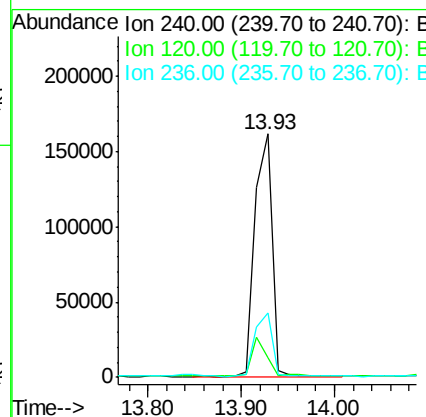
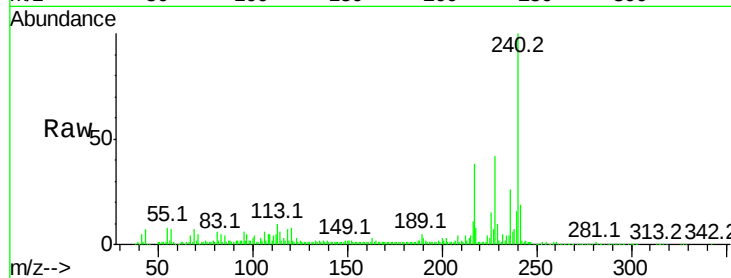
#75
Chrysene-d12
Concen: 20.00 ng
RT: 13.93 min Scan# 1036
Delta R.T. 0.00 min
Lab File: BF086047.D
Acq: 4 Apr 2016 19:50

Instrument :
BNA_F
ClientSampleId :
TK2-4-20160401

Tot Ion	Ratio	Resp	Lower	Upper
240	100	204208		
120	8.1	13.8	20.8#	
236	26.2	20.6	30.8	

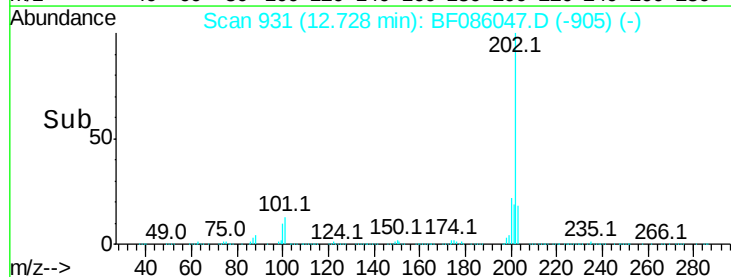
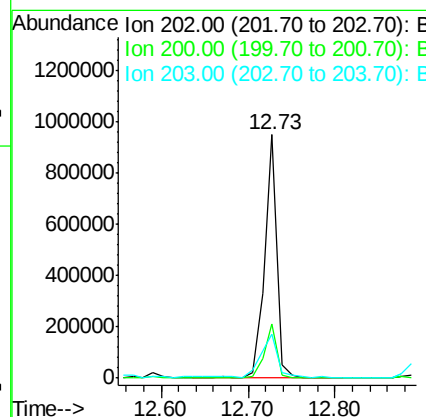
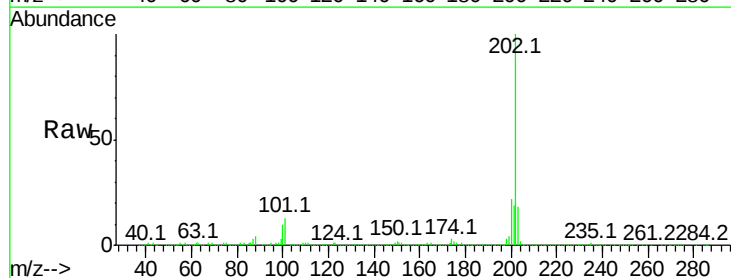
Manual Integrations
APPROVED

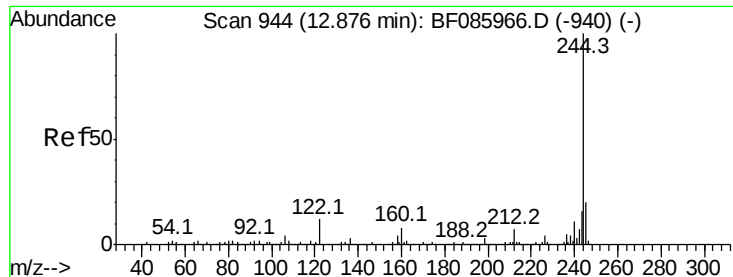
Sohil
4/5/2016 6:39:54 PM



#77
Pyrene
Concen: 65.44 ng
RT: 12.73 min Scan# 931
Delta R.T. 0.00 min
Lab File: BF086047.D
Acq: 4 Apr 2016 19:50

Tgt Ion	Ratio	Resp	Lower	Upper
202	100	941657		
200	22.2	17.6	26.4	
203	18.1	14.0	21.0	





#78

Terphenyl-d14

Concen: 82.28 ng

RT: 12.86 min Scan# 943

Delta R.T. -0.01 min

Lab File: BF086047.D

Acq: 4 Apr 2016 19:50

Instrument :

BNA_F

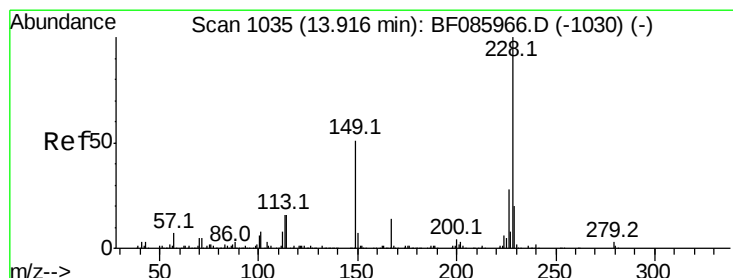
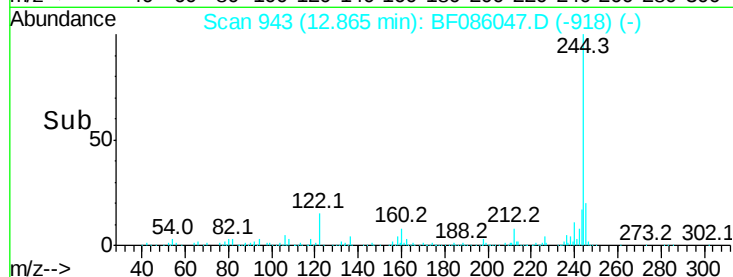
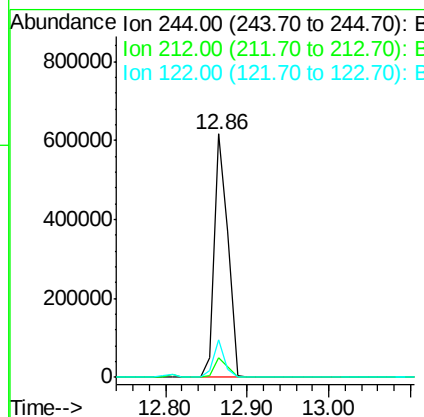
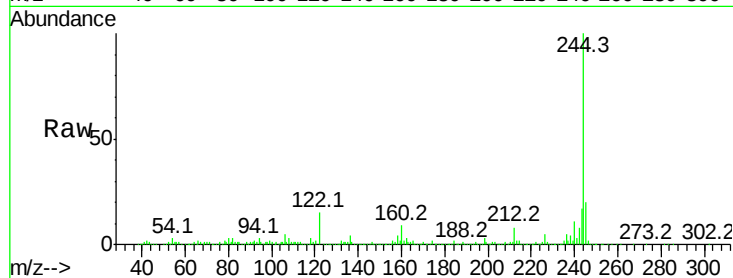
ClientSampleId :

TK2-4-20160401

Tot Ion:	244	Resp:	714779
Ion Ratio	Lower	Upper	
244	100		
212	8.0	6.1	9.1
122	15.4	10.2	15.4#

Manual Integrations
APPROVED

Sohil
4/5/2016 6:39:54 PM



#80

Benzo(a)anthracene

Concen: 37.63 ng m

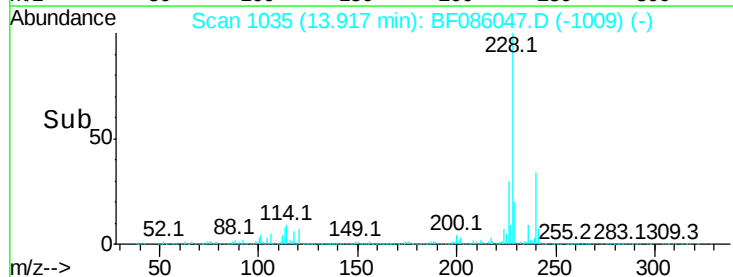
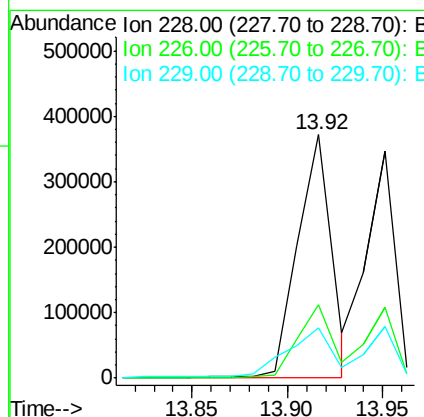
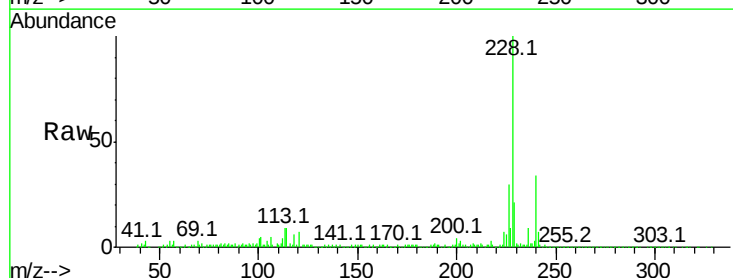
RT: 13.92 min Scan# 1035

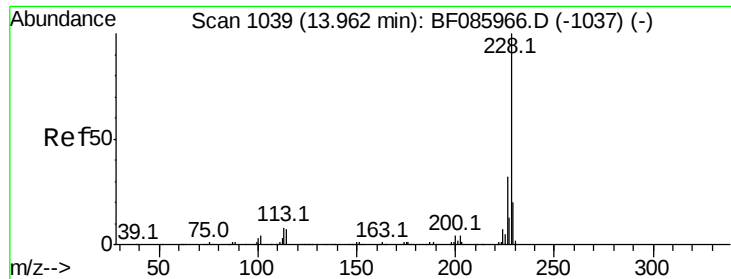
Delta R.T. 0.00 min

Lab File: BF086047.D

Acq: 4 Apr 2016 19:50

Tgt Ion:	228	Resp:	452978
Ion Ratio	Lower	Upper	
228	100		
226	30.4	22.1	33.1
229	20.6	16.2	24.4





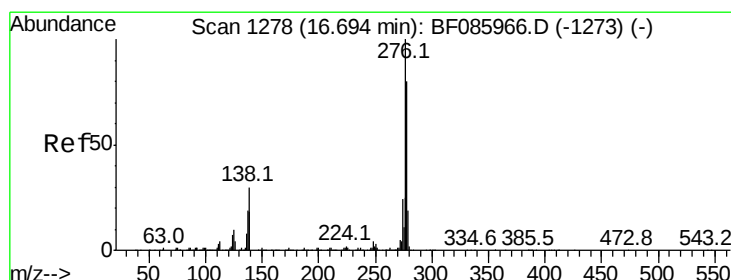
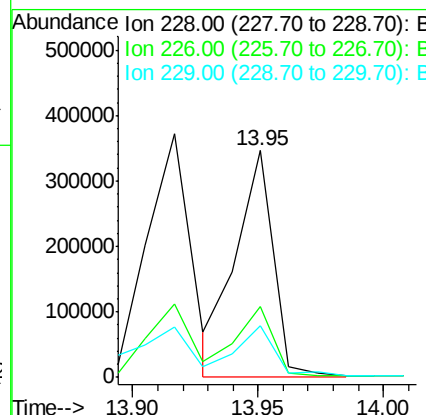
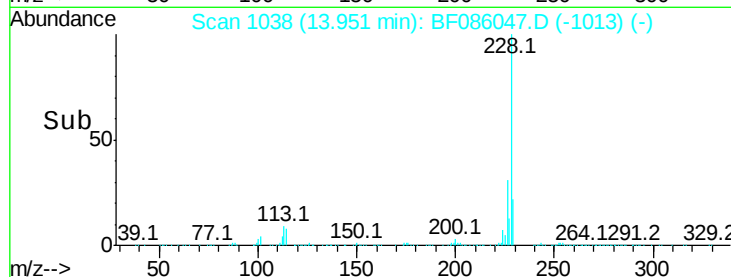
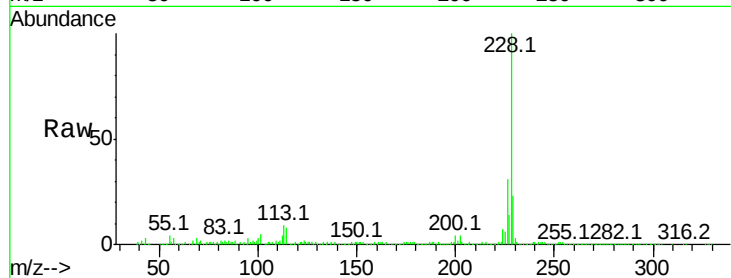
#82
Chrysene
Concen: 31.52 ng/ml
RT: 13.95 min Scan# 1038
Delta R.T. -0.01 min
Lab File: BF086047.D
Acq: 4 Apr 2016 19:50

Instrument :
BNA_F
ClientSampleID :
TK2-4-20160401

Tot Ion:	228	Resp:	365428
Ion Ratio	Lower	Upper	
228	100		
226	31.3	25.0	37.6
229	22.7	15.7	23.5

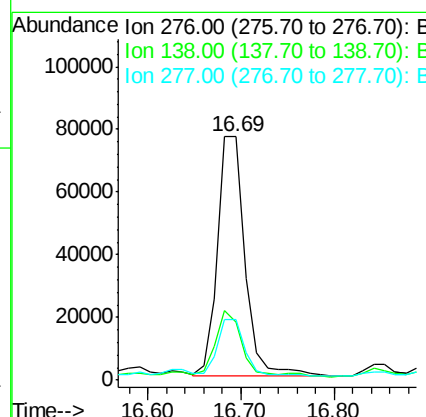
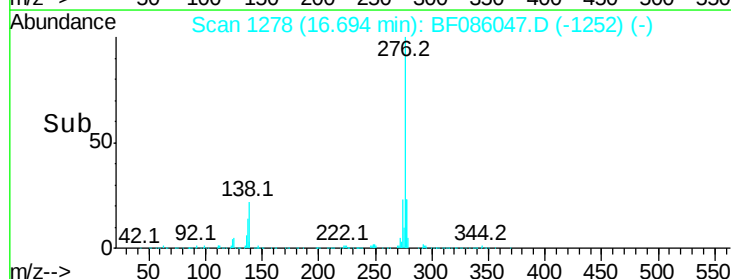
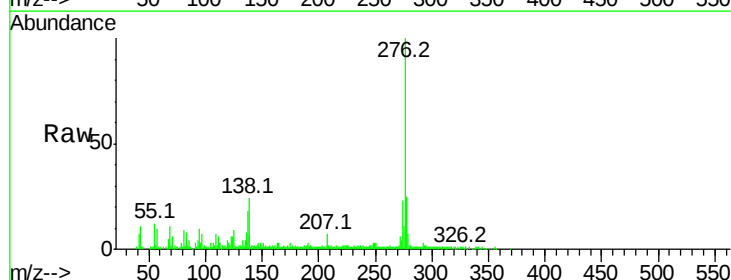
Manual Integrations
APPROVED

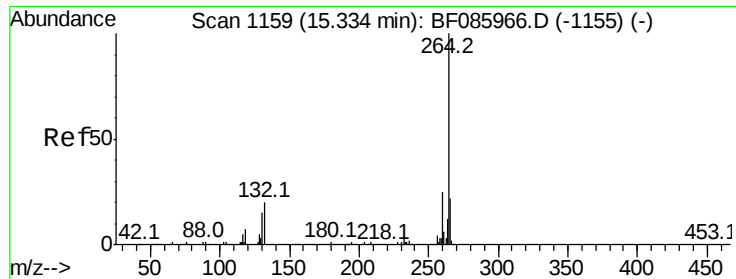
Sohil
4/5/2016 6:39:54 PM



#85
Indeno(1,2,3-cd)pyrene
Concen: 16.59 ng/ml
RT: 16.69 min Scan# 1278
Delta R.T. 0.00 min
Lab File: BF086047.D
Acq: 4 Apr 2016 19:50

Tgt Ion:	276	Resp:	156109
Ion Ratio	Lower	Upper	
276	100		
138	24.2	24.2	36.4#
277	23.6	20.0	30.0





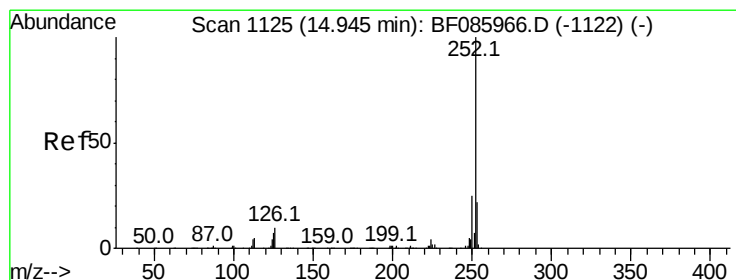
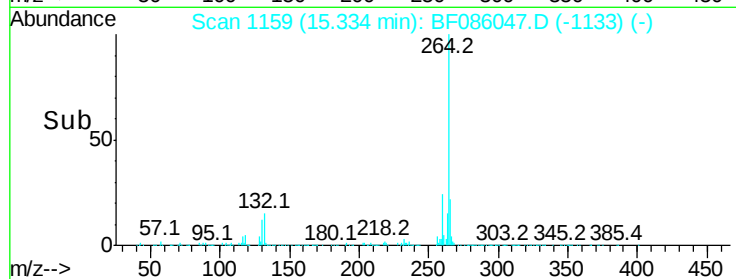
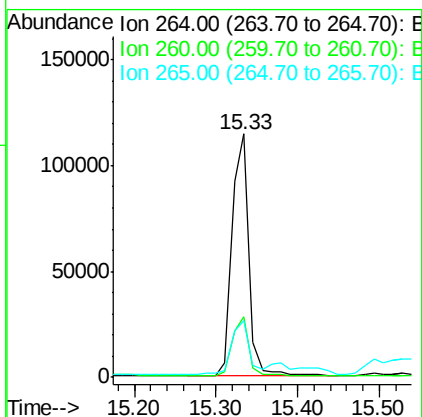
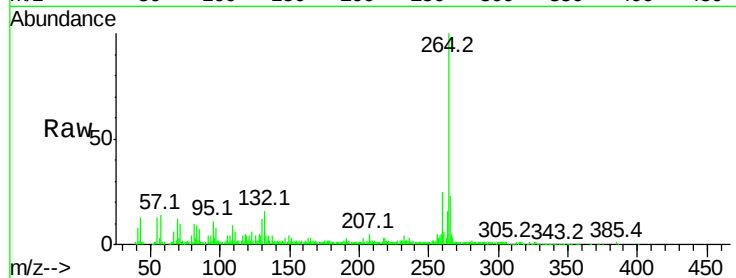
#86
Pervlene-d12
Concen: 20.00 ng
RT: 15.33 min Scan# 1159
Delta R.T. 0.00 min
Lab File: BF086047.D
Acq: 4 Apr 2016 19:50

Instrument :
BNA_F
ClientSampleId :
TK2-4-20160401

Tot Ion	Ratio	Resp	Lower	Upper
264	100			
260	24.9	19.4	29.2	
265	23.1	17.2	25.8	

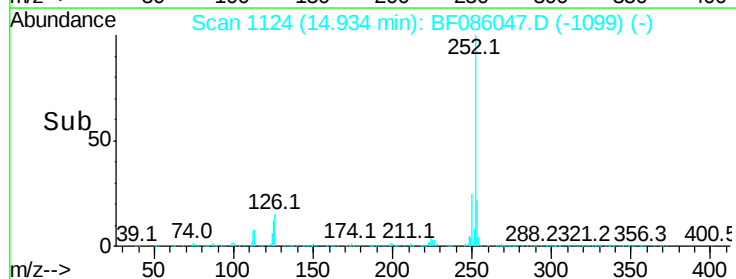
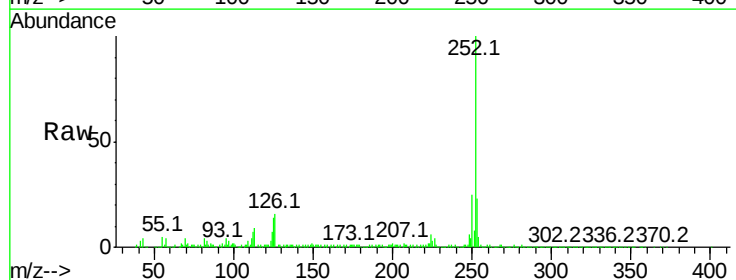
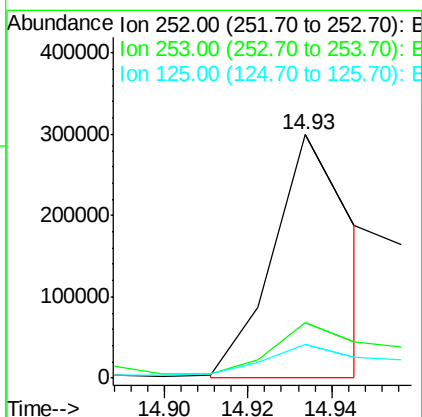
Manual Integrations
APPROVED

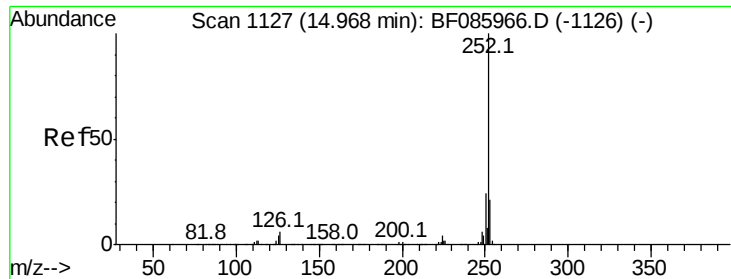
Sohil
4/5/2016 6:39:54 PM



#87
Benzo(b)fluoranthene
Concen: 38.25 ng m
RT: 14.93 min Scan# 1124
Delta R.T. -0.01 min
Lab File: BF086047.D
Acq: 4 Apr 2016 19:50

Tgt Ion	Ratio	Resp	Lower	Upper
252	100			
253	23.0	17.6	26.4	
125	13.7	10.3	15.5	





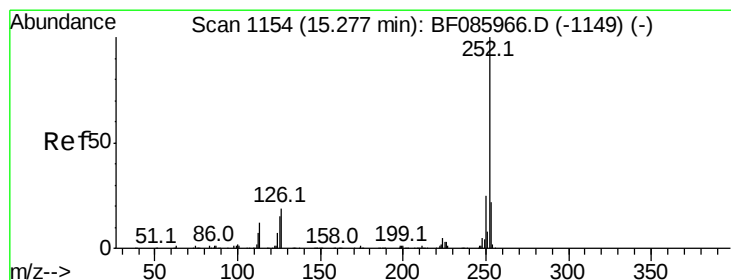
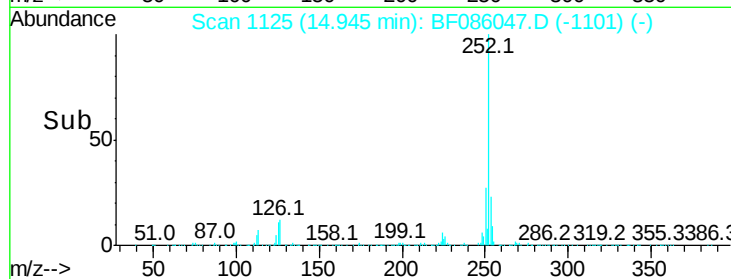
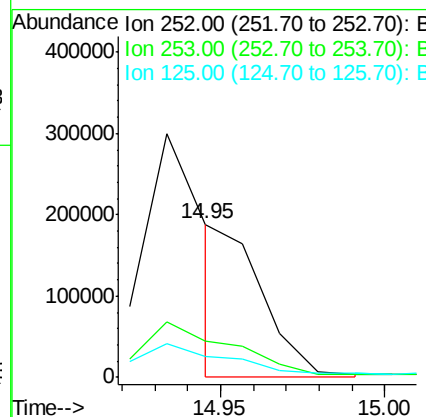
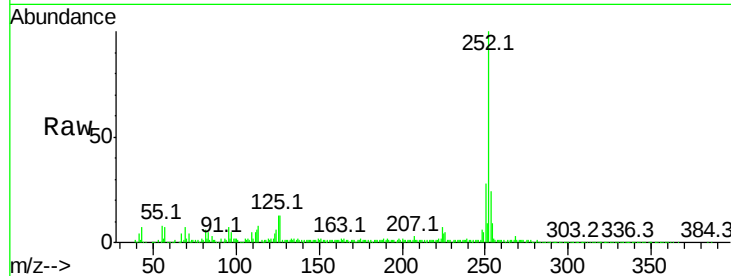
#88
Benzo(k)fluoranthene
Concen: 17.23 ng m
RT: 14.95 min Scan# 1125
Delta R.T. -0.02 min
Lab File: BF086047.D
Acq: 4 Apr 2016 19:50

Instrument :
BNA_F
ClientSampleId :
TK2-4-20160401

Tot Ion	Ratio	Resp	Lower	Upper
252	100	157135		
253	23.7	17.8	26.6	
125	13.3	7.7	11.5	

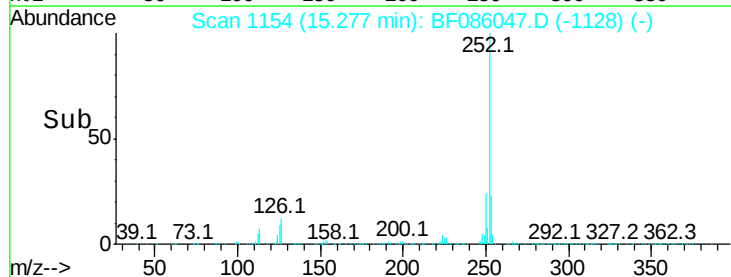
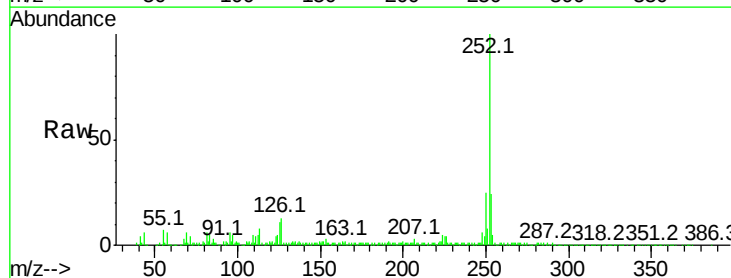
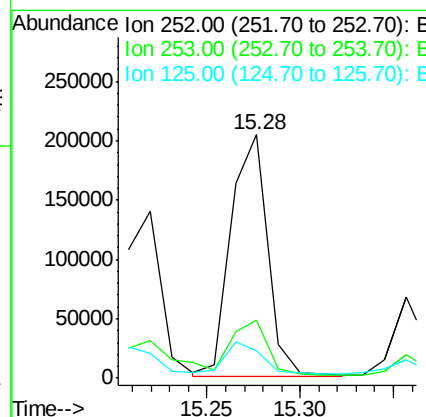
Manual Integrations
APPROVED

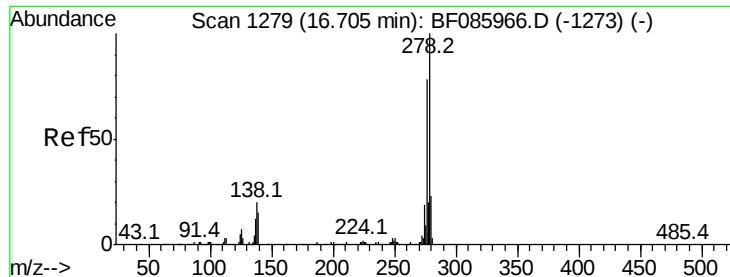
Sohil
4/5/2016 6:39:54 PM



#89
Benzo(a)pyrene
Concen: 30.77 ng
RT: 15.28 min Scan# 1154
Delta R.T. 0.00 min
Lab File: BF086047.D
Acq: 4 Apr 2016 19:50

Tgt Ion	Ratio	Resp	Lower	Upper
252	100	280804		
253	23.6	17.4	26.0	
125	11.2	10.3	15.5	





#90

Dibenzo(a,h)anthracene

Concen: 4.96 ng

RT: 16.69 min Scan# 1278

Delta R.T. -0.01 min

Lab File: BF086047.D

Acq: 4 Apr 2016 19:50

Instrument :

BNA_F

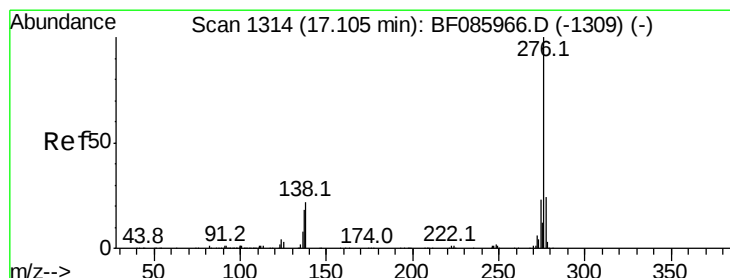
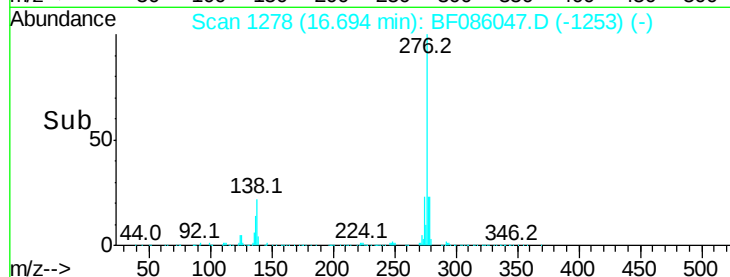
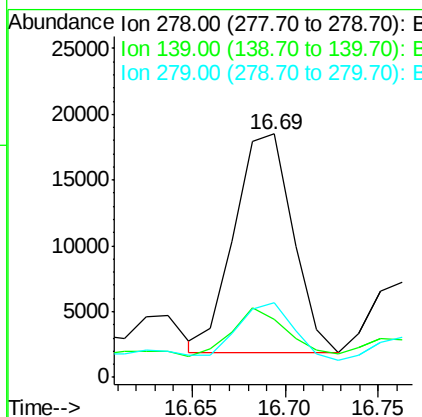
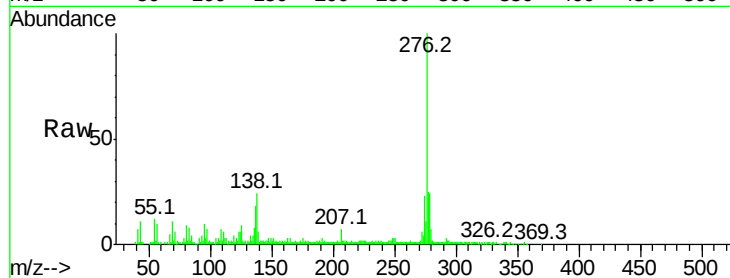
ClientSampleId :

TK2-4-20160401

Tot Ion:278	Resp:	36406
Ion Ratio	Lower	Upper
278 100		
139 24.0	14.4	21.6#
279 30.7	19.1	28.7#

Manual Integrations
APPROVED

Sohil
4/5/2016 6:39:54 PM



#91

Benzo(g,h,i)perylene

Concen: 21.15 ng

RT: 17.09 min Scan# 1313

Delta R.T. -0.01 min

Lab File: BF086047.D

Acq: 4 Apr 2016 19:50

Tgt Ion:276	Resp:	150240
Ion Ratio	Lower	Upper
276 100		
277 24.2	18.8	28.2
138 29.1	22.6	34.0

