

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF090816\
 Data File : BF090035.D
 Acq On : 8 Sep 2016 20:17
 Operator : UM/SJ
 Sample : H4704-06
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SB-6-4.0-5.0

Manual Integrations
 APPROVED

Sohil
 9/9/2016 8:39:15 AM

Quant Time: Sep 09 05:25:05 2016
 Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF083116.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Sep 08 16:07:52 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.59	152	193290m	20.00	ng	-0.01
21) Naphthalene-d8	7.88	136	844412	20.00	ng	-0.01
38) Acenaphthene-d10	9.63	164	411341	20.00	ng	0.00
63) Phenanthrene-d10	11.10	188	717605	20.00	ng	-0.01
75) Chrysene-d12	13.71	240	489249	20.00	ng	-0.01
86) Perylene-d12	15.05	264	446392	20.00	ng	-0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.18	112	1232798	102.09	ng	0.01
7) Phenol-d6	6.25	99	1750170	119.28	ng	0.00
23) Nitrobenzene-d5	7.16	82	920885	63.25	ng	-0.01
41) 2,4,6-Tribromophenol	10.41	330	382851	94.34	ng	-0.01
44) 2-Fluorobiphenyl	8.97	172	1935385	77.23	ng	0.00
78) Terphenyl-d14	12.69	244	1417884	71.59	ng	0.00

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
49) Dimethylphthalate	9.36	163	826986	27.82	ng	99
51) Acenaphthene	9.66	154	129944	5.29	ng	100
57) Fluorene	10.17	166	93714	3.90	ng	98
70) Phenanthrene	11.12	178	912607	25.54	ng	98
71) Anthracene	11.18	178	285988	7.89	ng	97
72) Carbazole	11.34	167	123625	3.64	ng	96
74) Fluoranthene	12.31	202	1333783	35.61	ng	99
77) Pyrene	12.53	202	1076728	31.21	ng	99
80) Benzo(a)anthracene	13.70	228	646583	21.58	ng	97
82) Chrysene	13.74	228	484969m	17.33	ng	
85) Indeno(1,2,3-cd)pyrene	16.26	276	246707	11.92	ng	95
87) Benzo(b)fluoranthene	14.70	252	592002m	21.17	ng	
88) Benzo(k)fluoranthene	14.71	252	299547m	12.62	ng	
89) Benzo(a)pyrene	15.01	252	454037	18.95	ng	97
90) Dibenzo(a,h)anthracene	16.27	278	61336	3.49	ng	94
91) Benzo(g,h,i)perylene	16.62	276	205560	11.63	ng	# 94

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

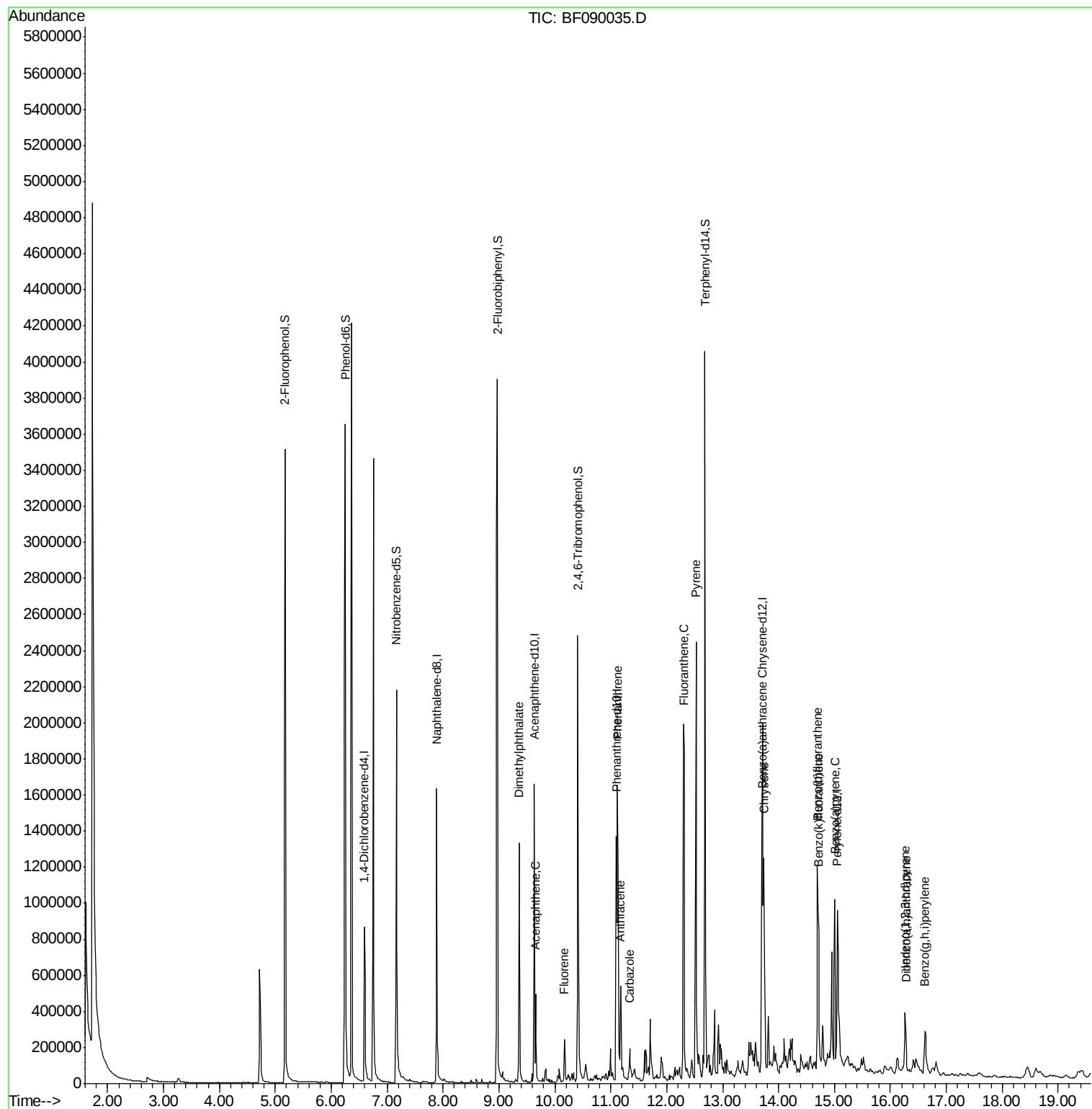
Data Path : Z:\HPCHEM1\BNA_F\DATA\BF090816\
Data File : BF090035.D
Acq On : 8 Sep 2016 20:17
Operator : UM/SJ
Sample : H4704-06
Misc :
ALS Vial : 14 Sample Multiplier: 1

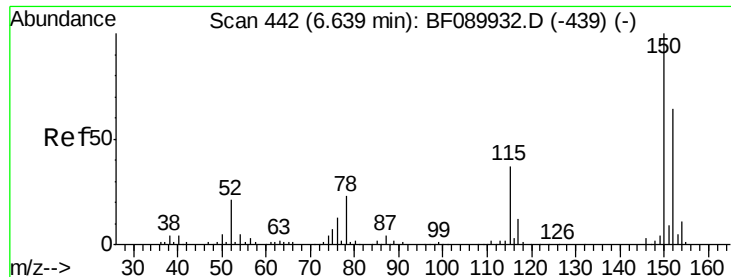
Instrument :
BNA_F
ClientSampleId :
SB-6-4.0-5.0

Manual Integrations
APPROVED

Sohil
9/9/2016 8:39:15 AM

Quant Time: Sep 09 05:25:05 2016
Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF083116.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Sep 08 16:07:52 2016
Response via : Initial Calibration





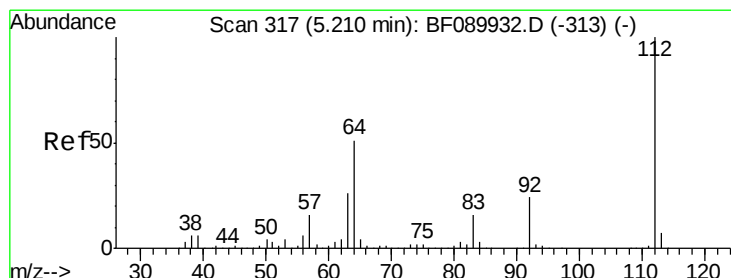
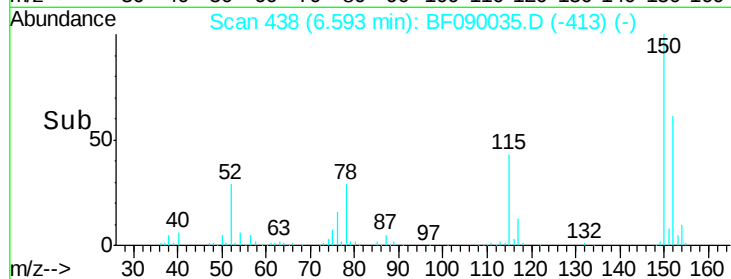
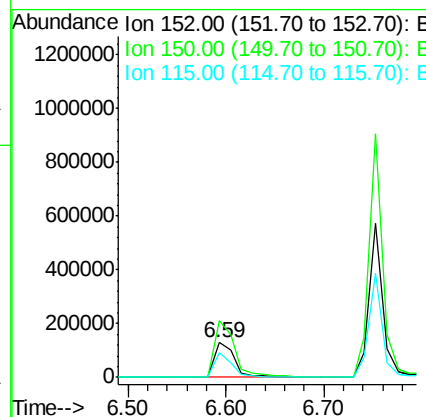
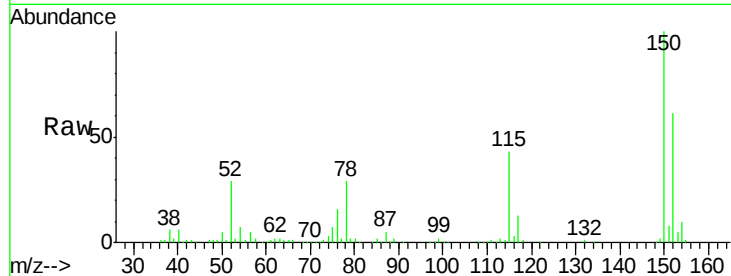
#1
 1,4-Dichlorobenzene-d4
 Concen: 20.00 ng m
 RT: 6.59 min Scan# 438
 Delta R.T. -0.01 min
 Lab File: BF090035.D
 Acq: 8 Sep 2016 20:17

Instrument :
 BNA_F
 ClientSampleId :
 SB-6-4.0-5.0

Tgt Ion	Ratio	Lower	Upper
152	100		
150	163.1	127.4	191.2
115	70.4	46.3	69.5#

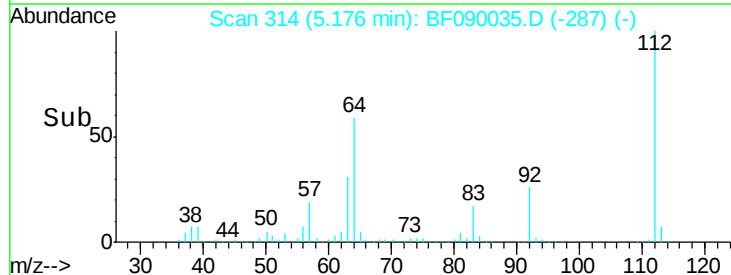
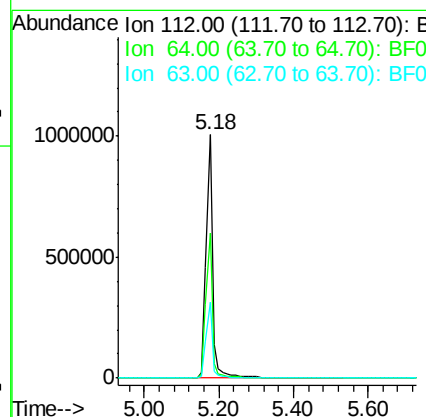
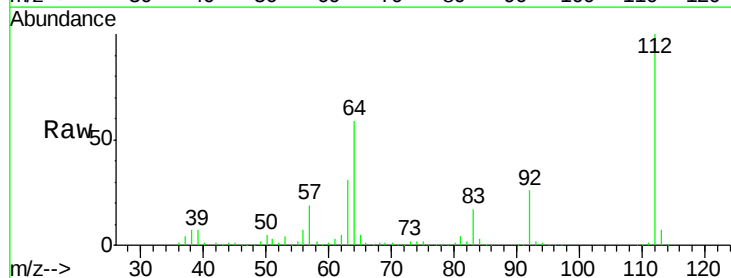
Manual Integrations
 APPROVED

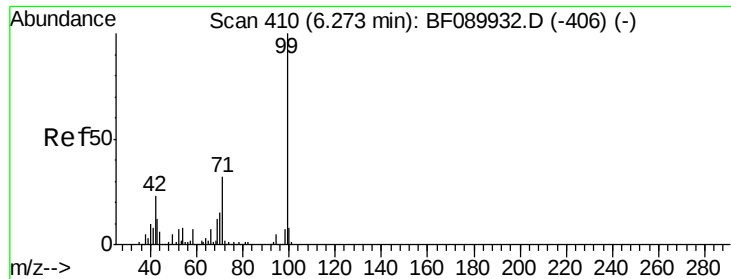
Sohil
 9/9/2016 8:39:15 AM



#5
 2-Fluorophenol
 Concen: 102.09 ng
 RT: 5.18 min Scan# 314
 Delta R.T. 0.01 min
 Lab File: BF090035.D
 Acq: 8 Sep 2016 20:17

Tgt Ion	Ratio	Lower	Upper
112	100		
64	59.3	41.1	61.7
63	31.1	21.2	31.8





#7

Phenol-d6

Concen: 119.28 ng

RT: 6.25 min Scan# 408

Delta R.T. 0.00 min

Lab File: BF090035.D

Acq: 8 Sep 2016 20:17

Instrument :

BNA_F

ClientSampleId :

SB-6-4.0-5.0

Tgt Ion: 99 Resp: 1750170

Ion Ratio Lower Upper

99 100

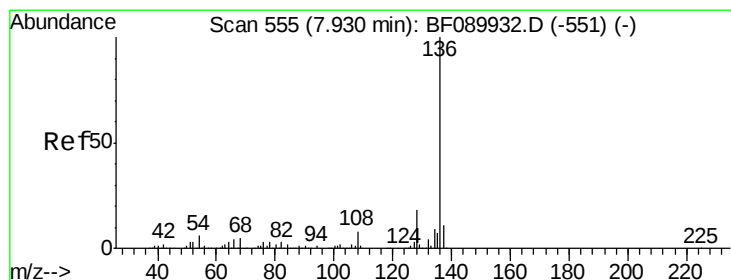
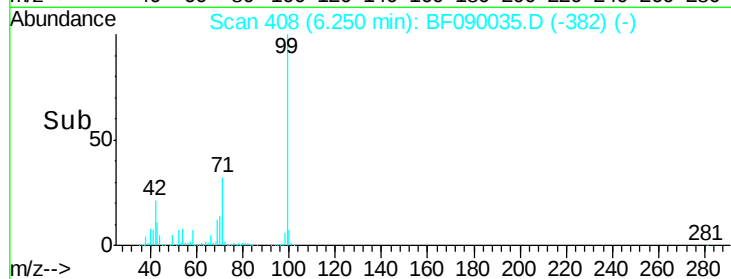
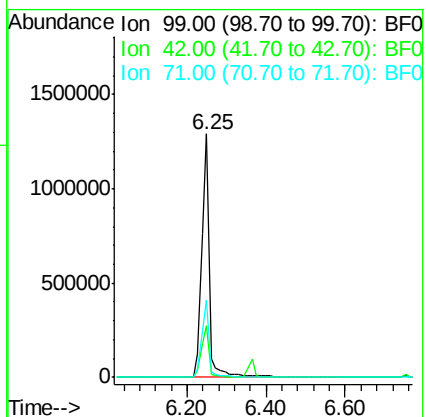
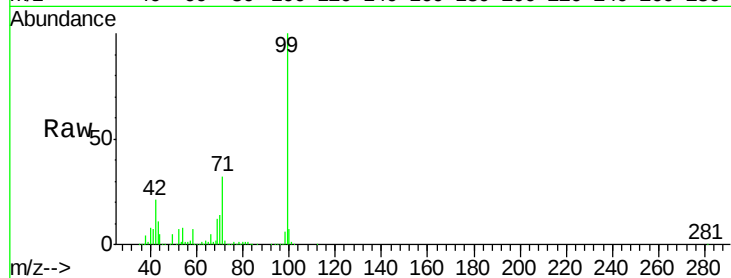
42 21.2 18.6 27.8

71 31.9 25.8 38.6

Manual Integrations
APPROVED

Sohil

9/9/2016 8:39:15 AM



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 7.88 min Scan# 551

Delta R.T. -0.01 min

Lab File: BF090035.D

Acq: 8 Sep 2016 20:17

Tgt Ion: 136 Resp: 844412

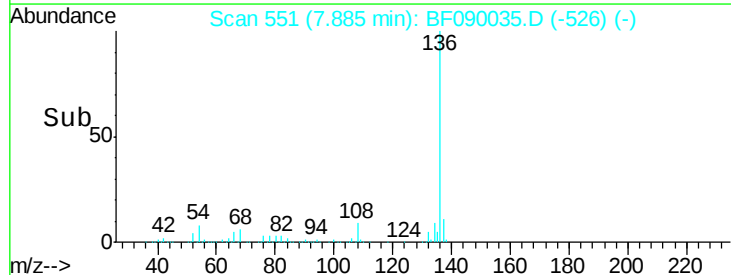
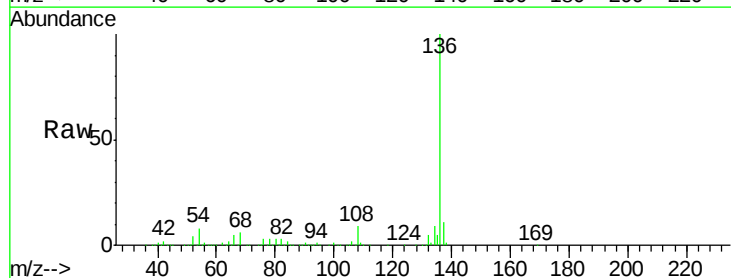
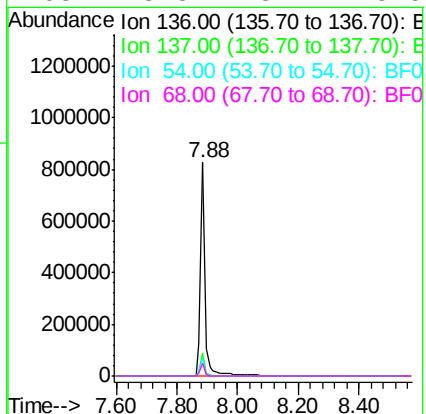
Ion Ratio Lower Upper

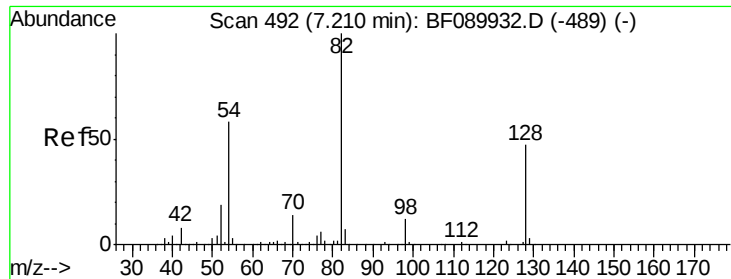
136 100

137 11.0 8.3 12.5

54 8.3 4.8 7.2#

68 5.8 3.7 5.5#





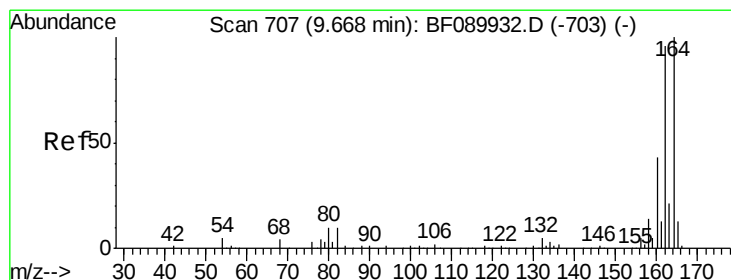
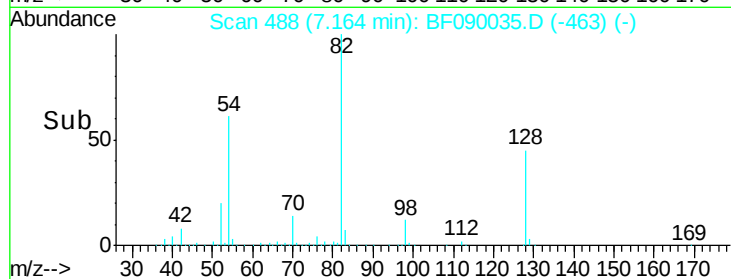
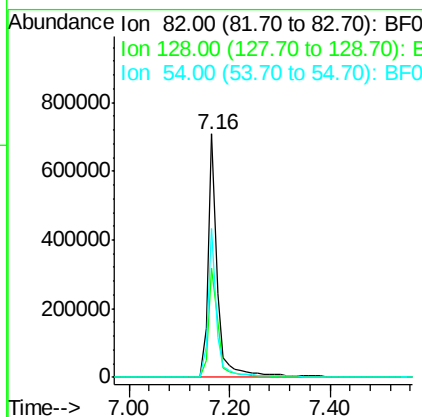
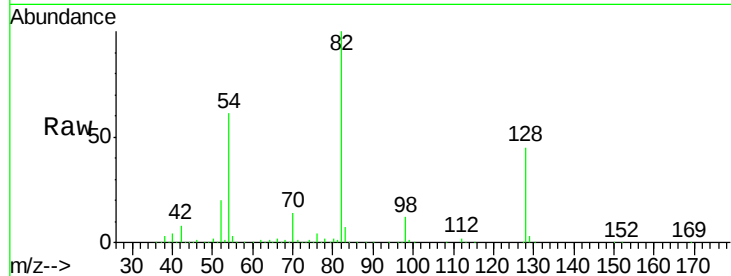
#23
 Nitrobenzene-d5
 Concen: 63.25 ng
 RT: 7.16 min Scan# 488
 Delta R.T. -0.01 min
 Lab File: BF090035.D
 Acq: 8 Sep 2016 20:17

Instrument :
 BNA_F
 ClientSampleId :
 SB-6-4.0-5.0

Tgt Ion	Ratio	Resp	Lower	Upper
82	100	920885		
128	44.7	37.8	56.8	
54	61.2	46.9	70.3	

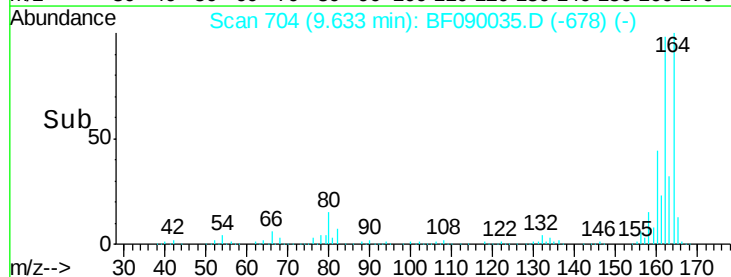
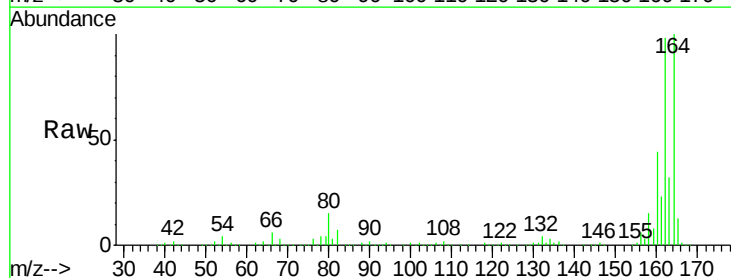
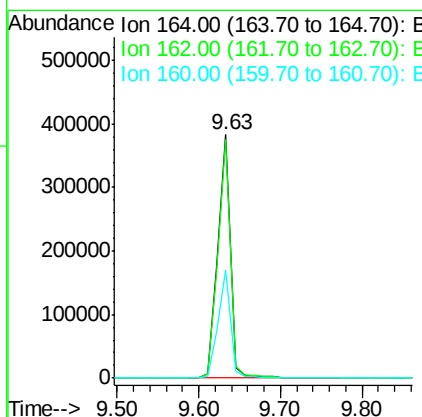
Manual Integrations
 APPROVED

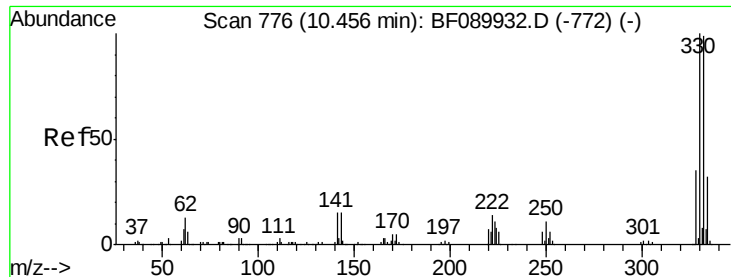
Sohil
 9/9/2016 8:39:15 AM



#38
 Acenaphthene-d10
 Concen: 20.00 ng
 RT: 9.63 min Scan# 704
 Delta R.T. 0.00 min
 Lab File: BF090035.D
 Acq: 8 Sep 2016 20:17

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	411341		
162	97.7	77.1	115.7	
160	44.4	35.3	52.9	





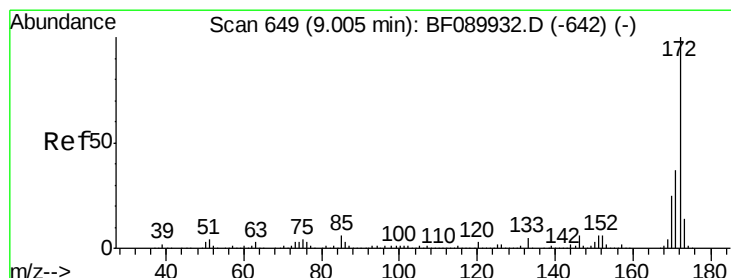
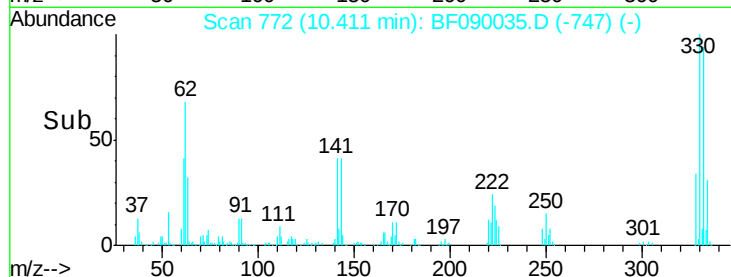
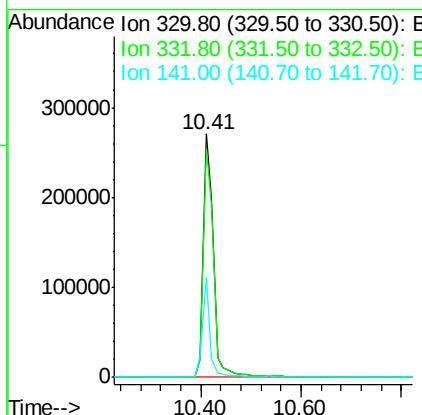
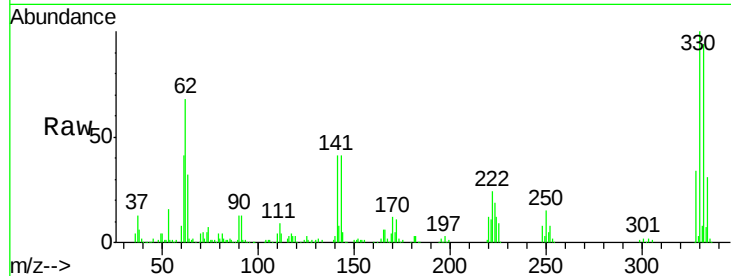
#41
 2,4,6-Tribromophenol
 Concen: 94.34 ng
 RT: 10.41 min Scan# 772
 Delta R.T. -0.01 min
 Lab File: BF090035.D
 Acq: 8 Sep 2016 20:17

Instrument :
 BNA_F
 ClientSampleId :
 SB-6-4.0-5.0

Tgt Ion	Ratio	Resp	Lower	Upper
330	100	382851		
332	95.4	78.6	117.8	
141	30.7	23.3	34.9	

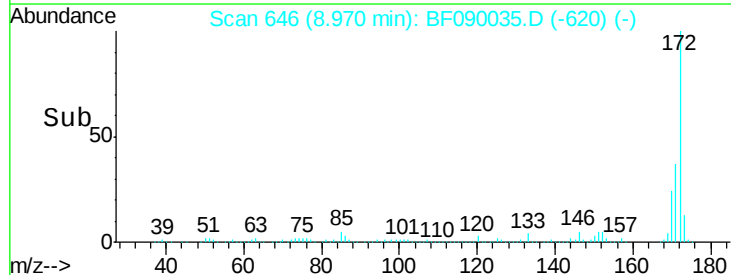
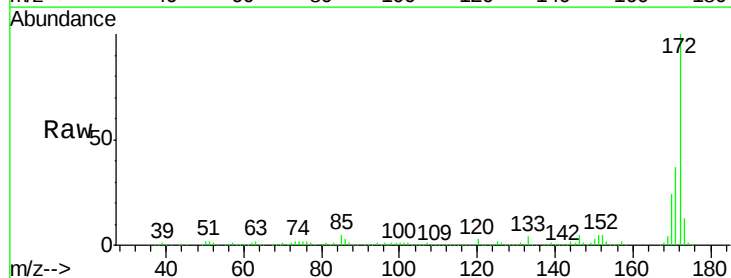
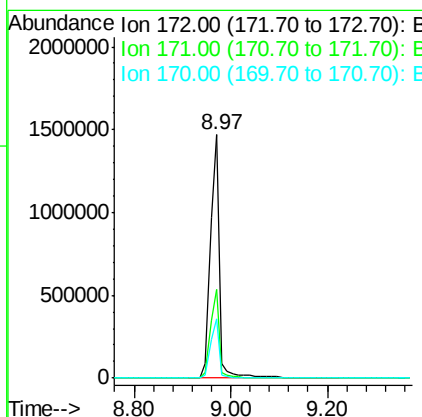
Manual Integrations
 APPROVED

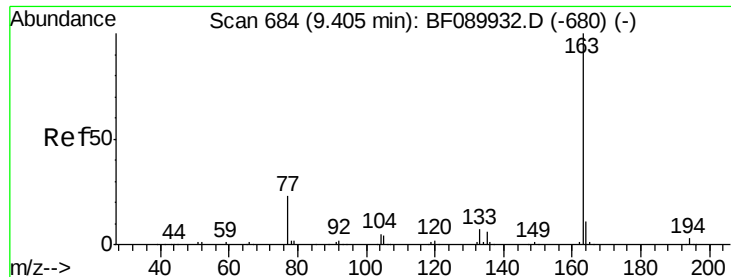
Sohil
 9/9/2016 8:39:15 AM



#44
 2-Fluorobiphenyl
 Concen: 77.23 ng
 RT: 8.97 min Scan# 646
 Delta R.T. 0.00 min
 Lab File: BF090035.D
 Acq: 8 Sep 2016 20:17

Tgt Ion	Ratio	Resp	Lower	Upper
172	100	1935385		
171	36.5	29.4	44.2	
170	24.4	20.1	30.1	





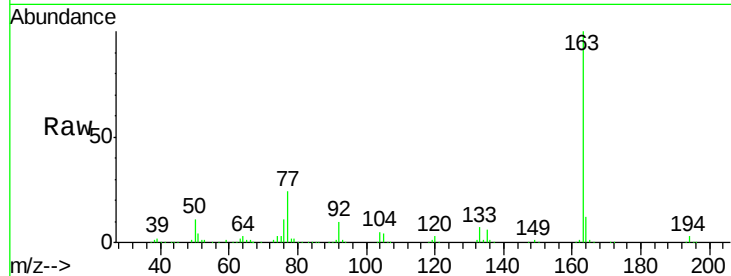
#49
Dimethylphthalate
Concen: 27.82 ng
RT: 9.36 min Scan# 680
Delta R.T. -0.02 min
Lab File: BF090035.D
Acq: 8 Sep 2016 20:17

Instrument :
BNA_F
ClientSampleId :
SB-6-4.0-5.0

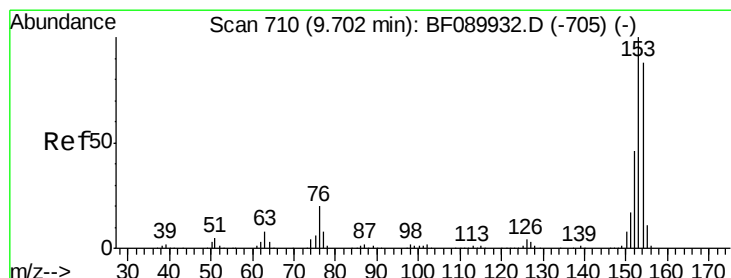
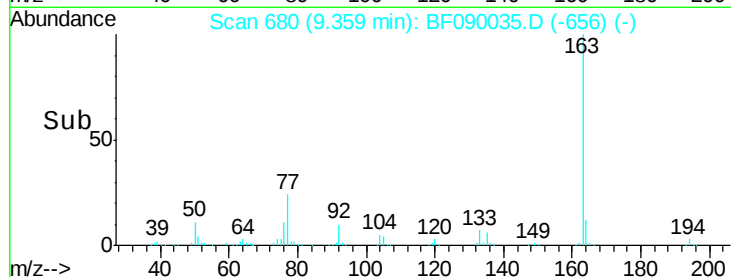
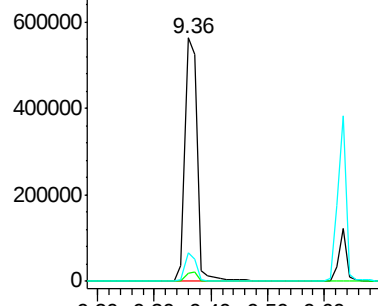
Tgt Ion	Ratio	Resp	Lower	Upper
163	100	826986		
194	3.3		2.7	4.1
164	11.6		9.0	13.4

Manual Integrations
APPROVED

Sohil
9/9/2016 8:39:15 AM

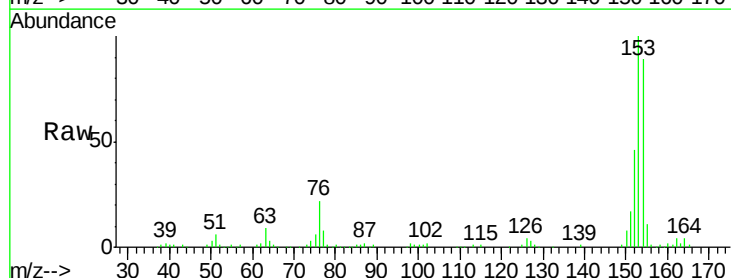


Abundance Ion 163.00 (162.70 to 163.70): E
Ion 194.00 (193.70 to 194.70): E
Ion 164.00 (163.70 to 164.70): E

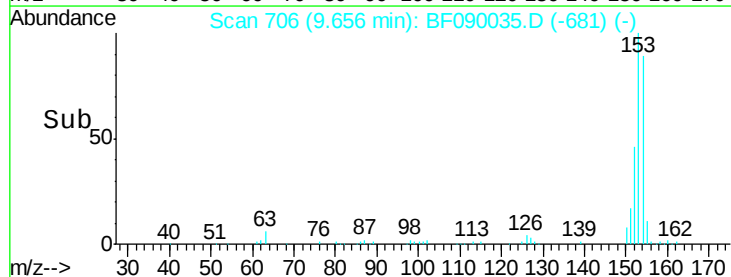
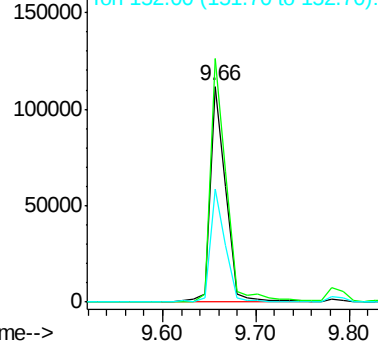


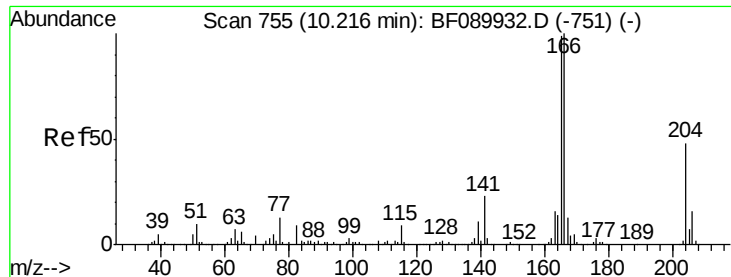
#51
Acenaphthene
Concen: 5.29 ng
RT: 9.66 min Scan# 706
Delta R.T. -0.01 min
Lab File: BF090035.D
Acq: 8 Sep 2016 20:17

Tgt Ion	Ratio	Resp	Lower	Upper
154	100	129944		
153	112.9		90.6	135.8
152	52.3		42.4	63.6



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





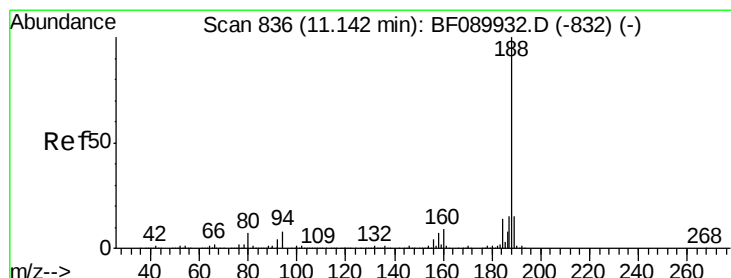
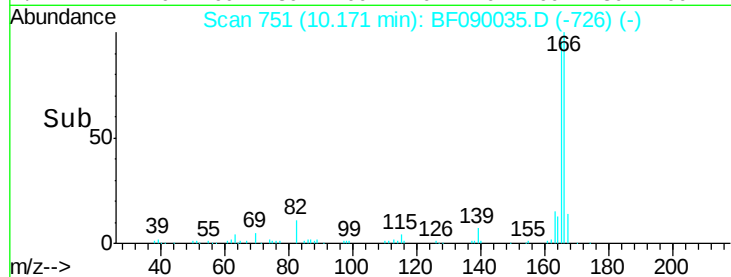
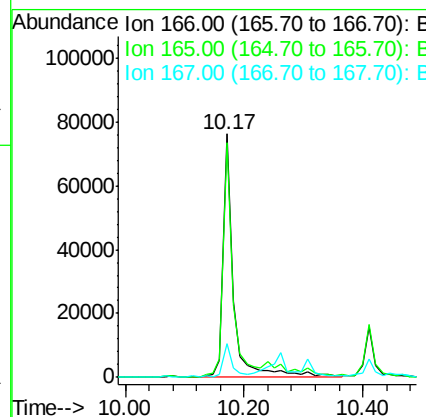
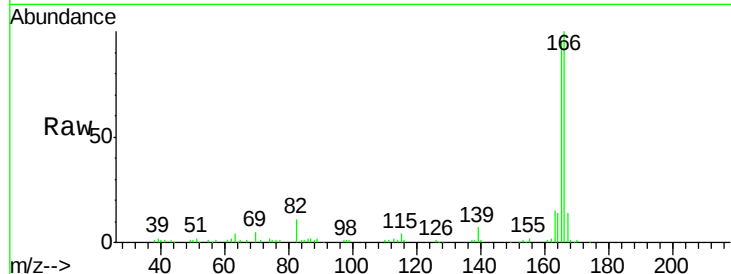
#57
Fluorene
 Concen: 3.90 ng
 RT: 10.17 min Scan# 751
 Delta R.T. -0.01 min
 Lab File: BF090035.D
 Acq: 8 Sep 2016 20:17

Instrument :
 BNA_F
 ClientSampleId :
 SB-6-4.0-5.0

Tgt Ion	Ratio	Lower	Upper
166	100		
165	96.4	78.6	118.0
167	14.1	10.6	15.8

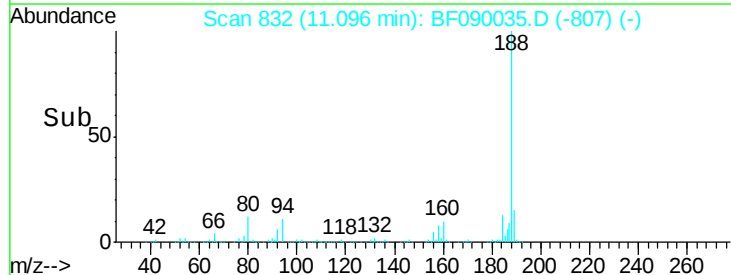
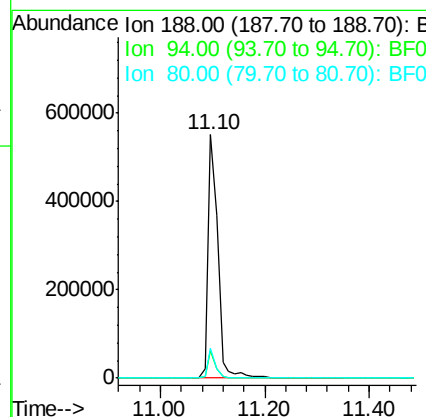
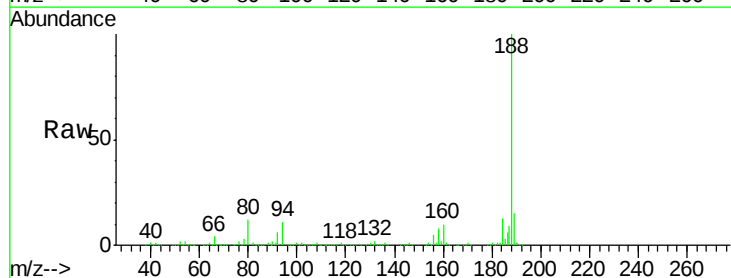
Manual Integrations
 APPROVED

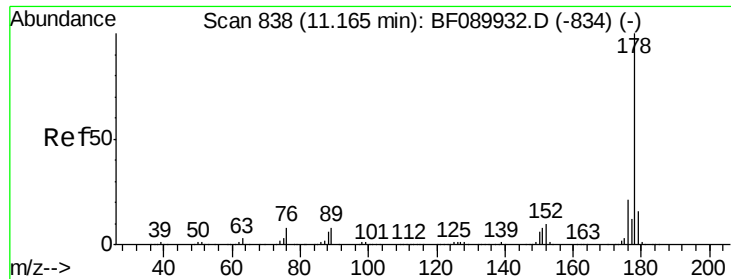
Sohil
 9/9/2016 8:39:15 AM



#63
Phenanthrene-d10
 Concen: 20.00 ng
 RT: 11.10 min Scan# 832
 Delta R.T. -0.01 min
 Lab File: BF090035.D
 Acq: 8 Sep 2016 20:17

Tgt Ion	Ratio	Lower	Upper
188	100		
94	11.4	5.9	8.9#
80	12.2	5.8	8.8#





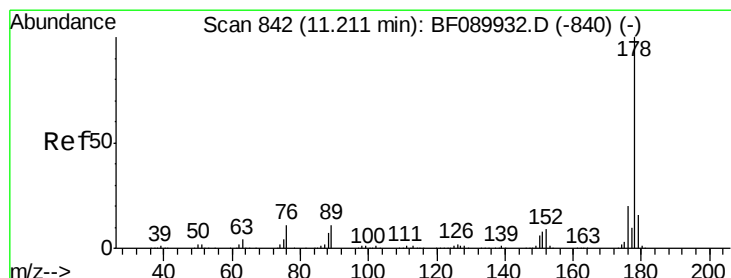
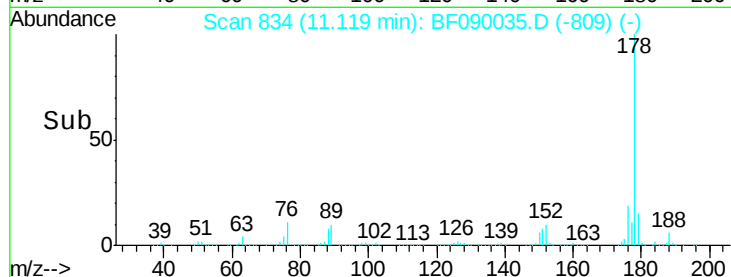
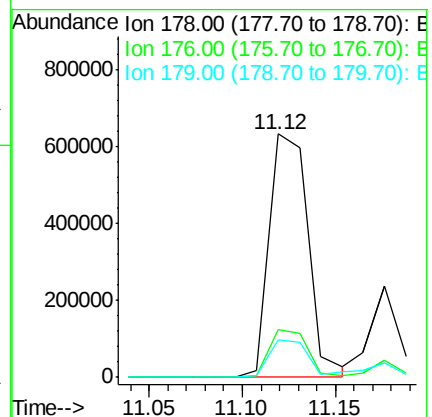
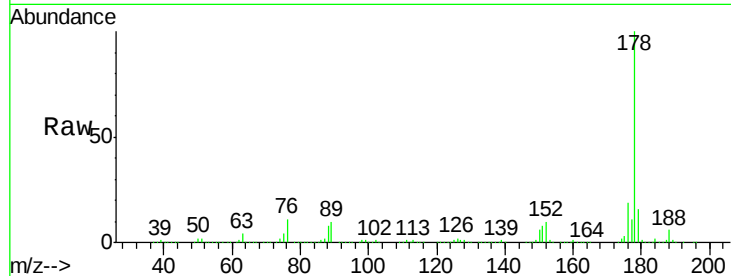
#70
Phenanthrene
Concen: 25.54 ng
RT: 11.12 min Scan# 834
Delta R.T. -0.01 min
Lab File: BF090035.D
Acq: 8 Sep 2016 20:17

Instrument :
BNA_F
ClientSampleId :
SB-6-4.0-5.0

Tgt Ion	Ratio	Lower	Upper
178	100		
176	19.4	16.5	24.7
179	15.5	12.8	19.2

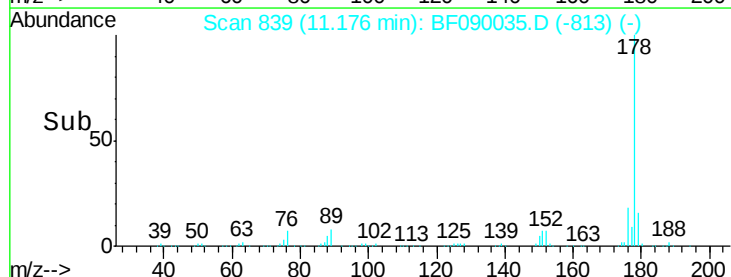
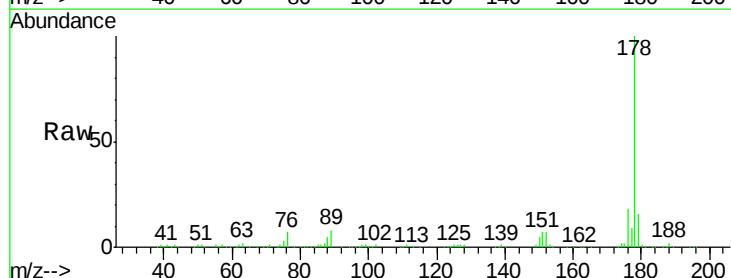
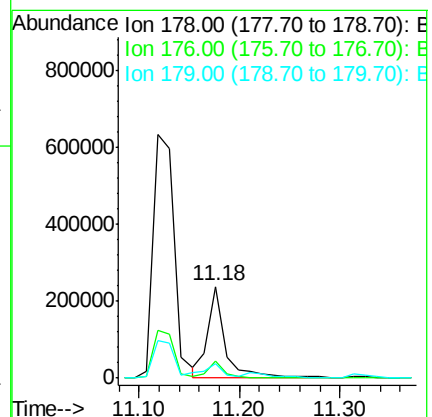
Manual Integrations
APPROVED

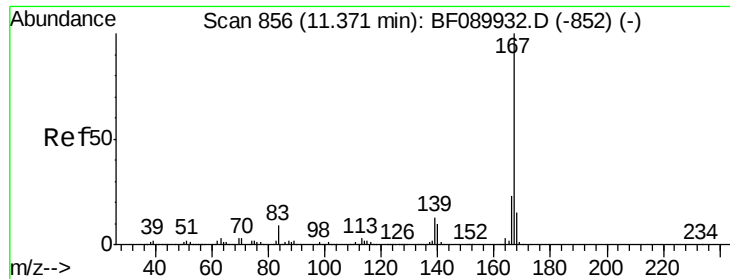
Sohil
9/9/2016 8:39:15 AM



#71
Anthracene
Concen: 7.89 ng
RT: 11.18 min Scan# 839
Delta R.T. 0.00 min
Lab File: BF090035.D
Acq: 8 Sep 2016 20:17

Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.1	15.8	23.8
179	15.7	13.0	19.4





#72

Carbazole

Concen: 3.64 ng

RT: 11.34 min Scan# 853

Delta R.T. 0.00 min

Lab File: BF090035.D

Acq: 8 Sep 2016 20:17

Instrument :

BNA_F

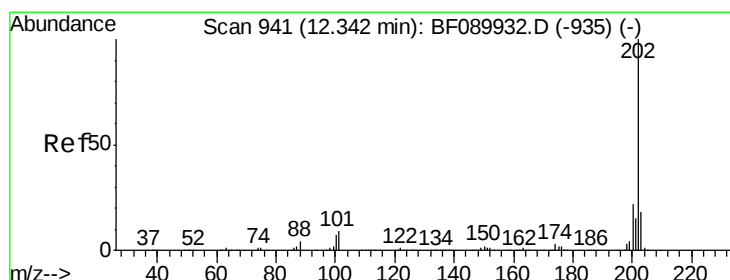
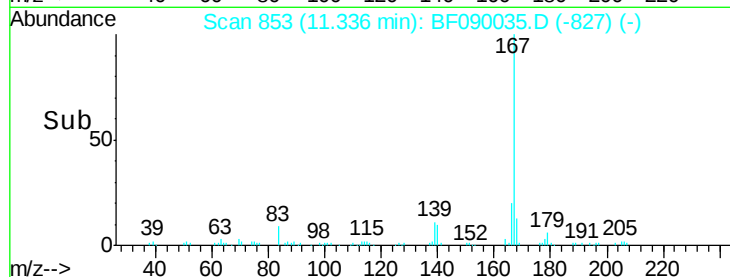
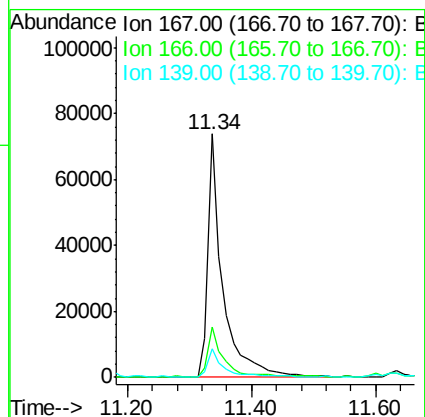
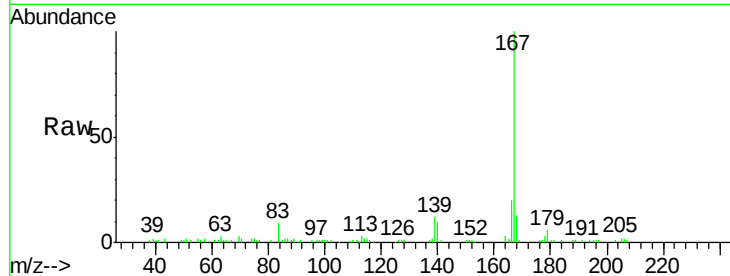
ClientSampleId :

SB-6-4.0-5.0

Tgt Ion:	167	Resp:	123625
Ion Ratio	Lower	Upper	
167	100		
166	20.5	18.1	27.1
139	11.9	10.4	15.6

Manual Integrations
APPROVED

Sohil
9/9/2016 8:39:15 AM



#74

Fluoranthene

Concen: 35.61 ng

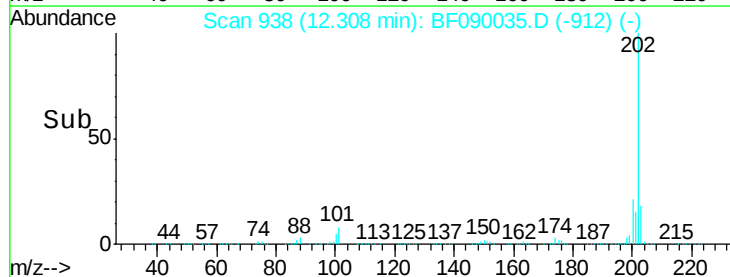
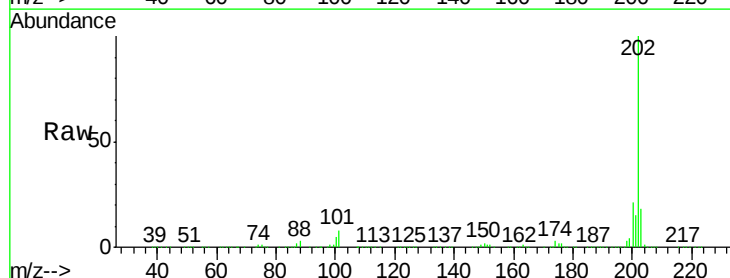
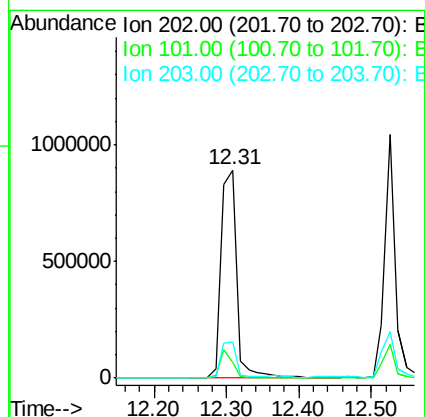
RT: 12.31 min Scan# 938

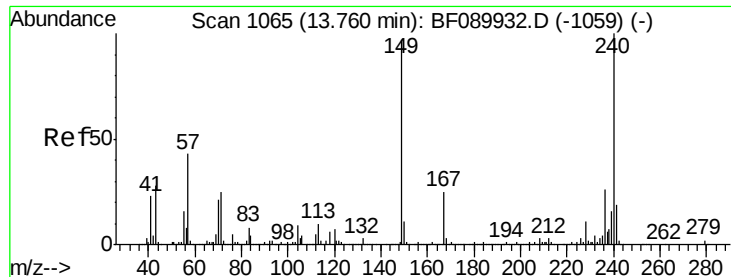
Delta R.T. 0.00 min

Lab File: BF090035.D

Acq: 8 Sep 2016 20:17

Tgt Ion:	202	Resp:	1333783
Ion Ratio	Lower	Upper	
202	100		
101	7.5	0.0	28.5
203	17.6	0.0	38.0





#75

Chrysene-d12

Concen: 20.00 ng

RT: 13.71 min Scan# 1061

Delta R.T. -0.01 min

Lab File: BF090035.D

Acq: 8 Sep 2016 20:17

Instrument :

BNA_F

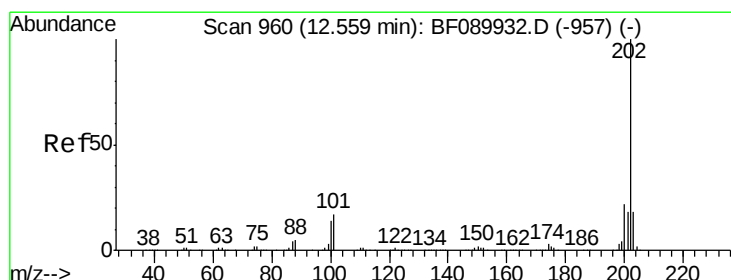
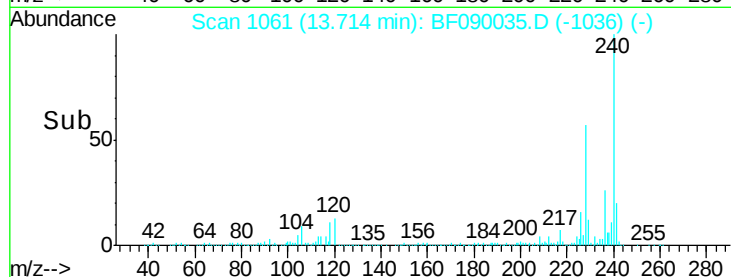
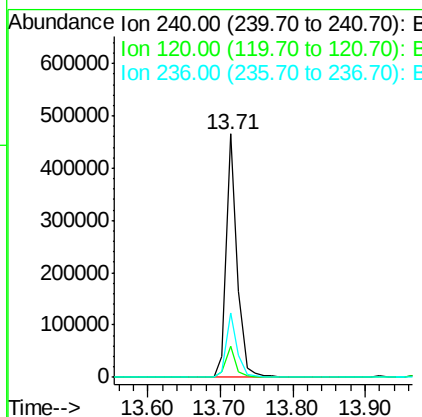
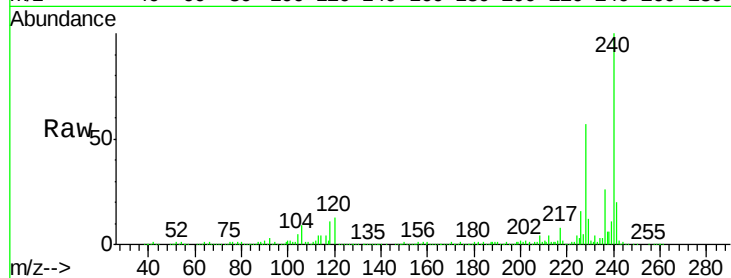
ClientSampleId :

SB-6-4.0-5.0

Tgt Ion:240 Resp: 489249
 Ion Ratio Lower Upper
 240 100
 120 12.8 5.7 8.5#
 236 26.3 21.3 31.9

Manual Integrations
 APPROVED

Sohil
 9/9/2016 8:39:15 AM



#77

Pyrene

Concen: 31.21 ng

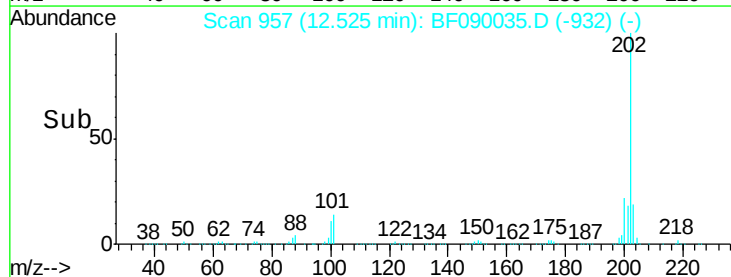
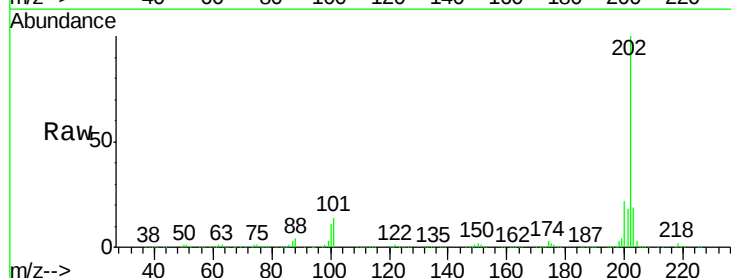
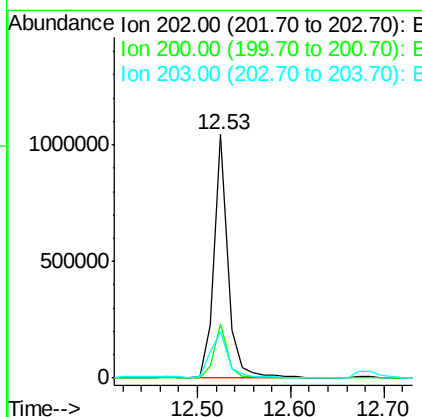
RT: 12.53 min Scan# 957

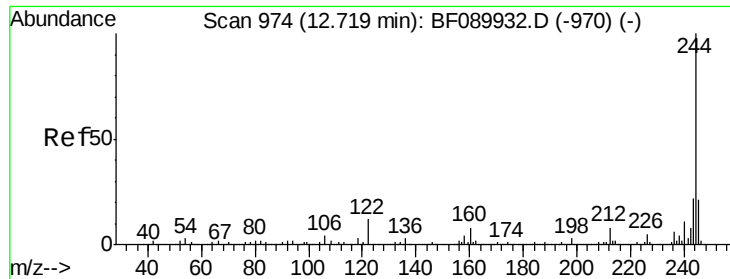
Delta R.T. -0.01 min

Lab File: BF090035.D

Acq: 8 Sep 2016 20:17

Tgt Ion:202 Resp: 1076728
 Ion Ratio Lower Upper
 202 100
 200 22.3 17.6 26.4
 203 18.9 14.6 21.8





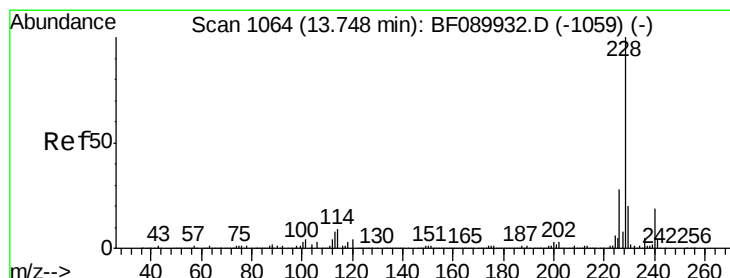
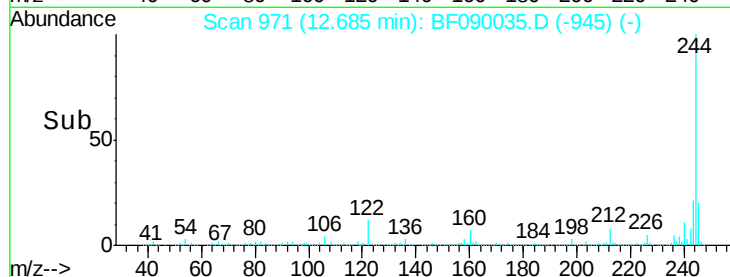
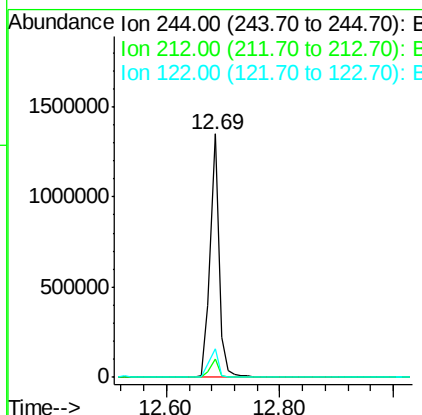
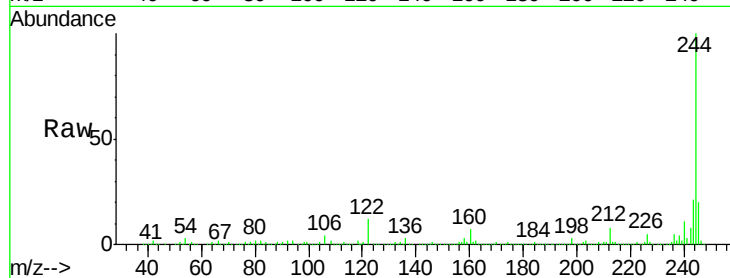
#78
 Terphenyl-d14
 Concen: 71.59 ng
 RT: 12.69 min Scan# 971
 Delta R.T. 0.00 min
 Lab File: BF090035.D
 Acq: 8 Sep 2016 20:17

Instrument :
 BNA_F
 ClientSampleId :
 SB-6-4.0-5.0

Tgt Ion:244 Resp: 1417884
 Ion Ratio Lower Upper
 244 100
 212 7.5 6.1 9.1
 122 11.6 9.6 14.4

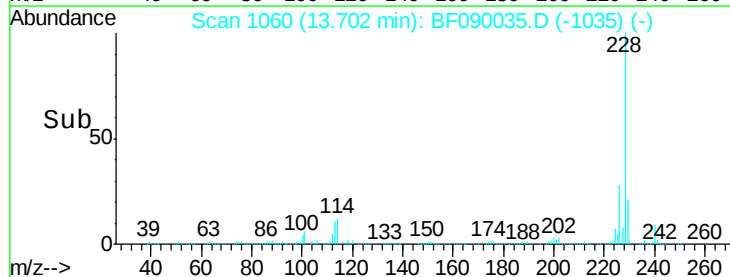
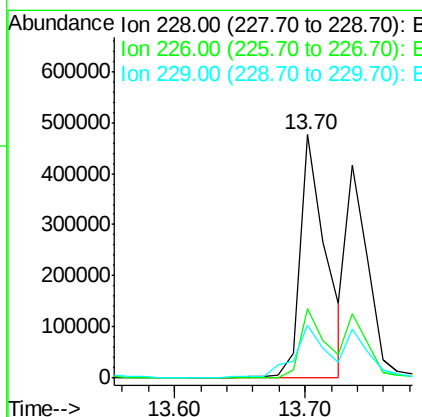
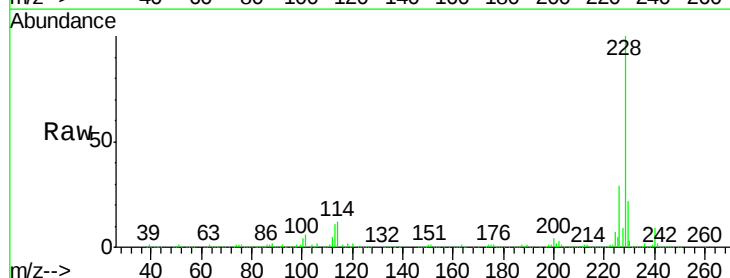
Manual Integrations
 APPROVED

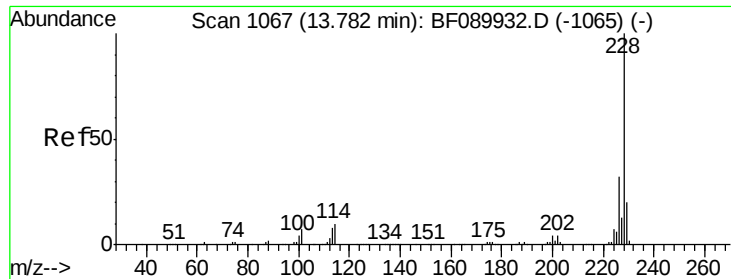
Sohil
 9/9/2016 8:39:15 AM



#80
 Benzo(a)anthracene
 Concen: 21.58 ng
 RT: 13.70 min Scan# 1060
 Delta R.T. -0.01 min
 Lab File: BF090035.D
 Acq: 8 Sep 2016 20:17

Tgt Ion:228 Resp: 646583
 Ion Ratio Lower Upper
 228 100
 226 28.7 22.2 33.2
 229 21.9 15.8 23.6





#82

Chrysene

Concen: 17.33 ng m

RT: 13.74 min Scan# 1063

Delta R.T. -0.01 min

Lab File: BF090035.D

Acq: 8 Sep 2016 20:17

Instrument :

BNA_F

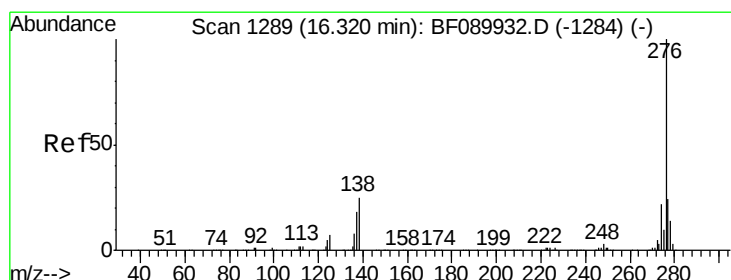
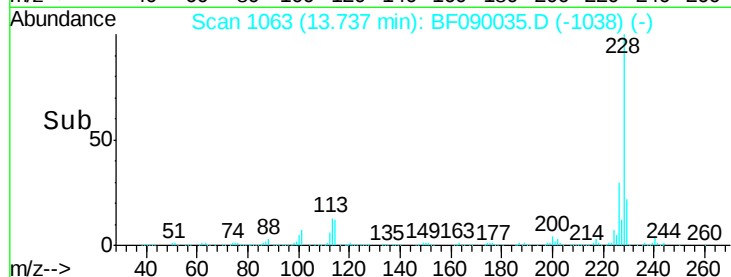
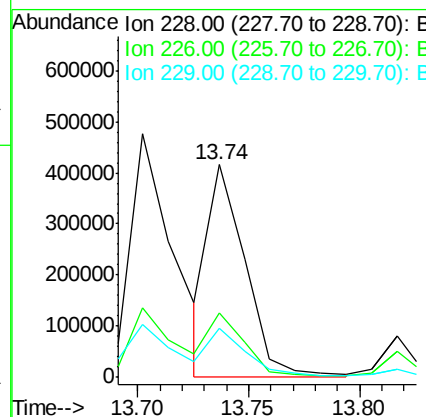
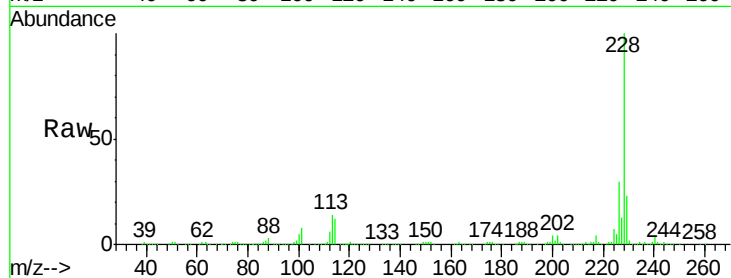
ClientSampleId :

SB-6-4.0-5.0

Tgt Ion:	228	Resp:	484969
Ion Ratio	Lower	Upper	
228	100		
226	30.1	25.2	37.8
229	22.9	16.2	24.2

Manual Integrations
APPROVED

Sohil
9/9/2016 8:39:15 AM



#85

Indeno(1,2,3-cd)pyrene

Concen: 11.92 ng

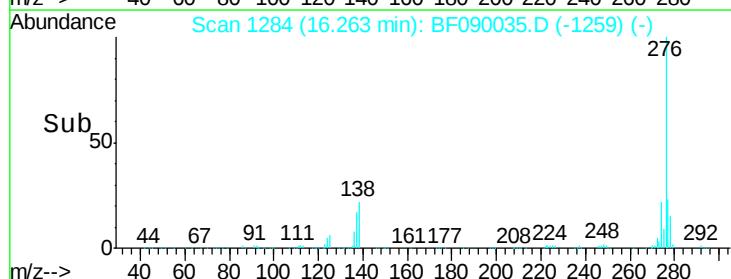
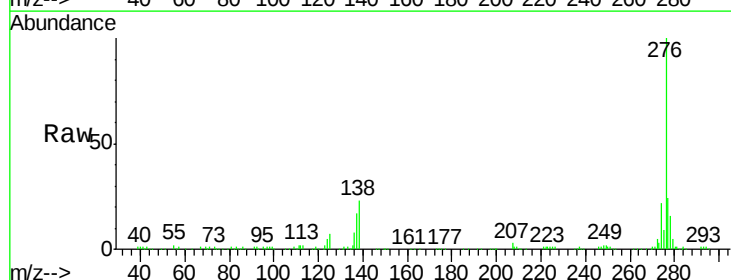
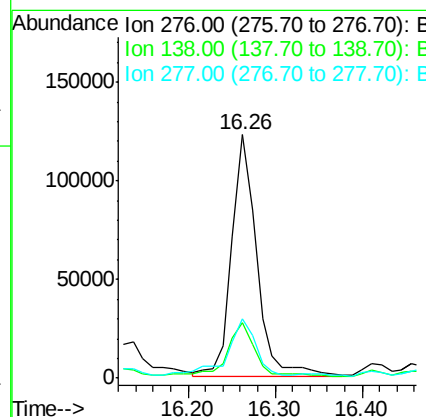
RT: 16.26 min Scan# 1284

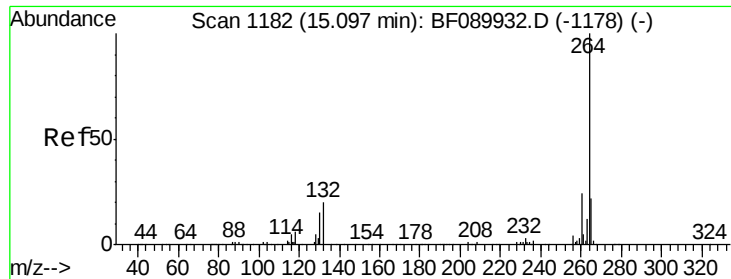
Delta R.T. -0.01 min

Lab File: BF090035.D

Acq: 8 Sep 2016 20:17

Tgt Ion:	276	Resp:	246707
Ion Ratio	Lower	Upper	
276	100		
138	26.3	22.6	34.0
277	28.1	20.1	30.1





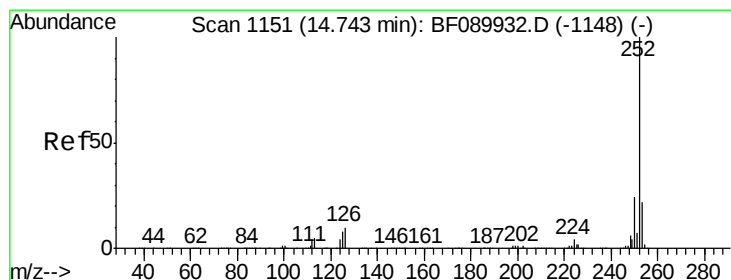
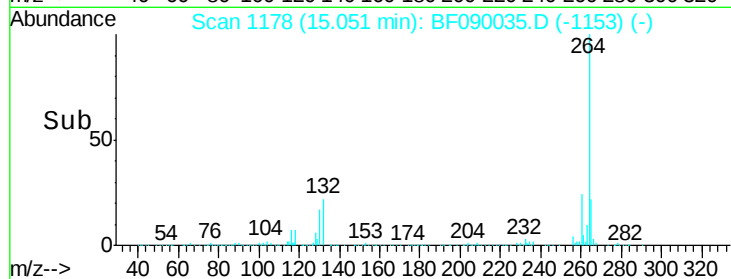
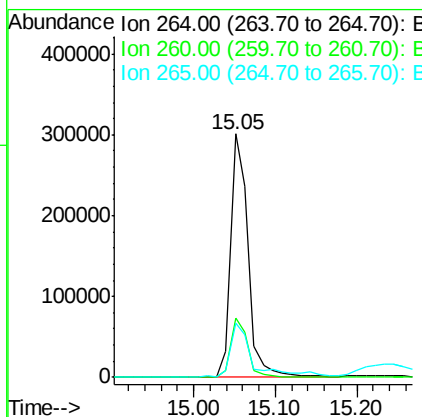
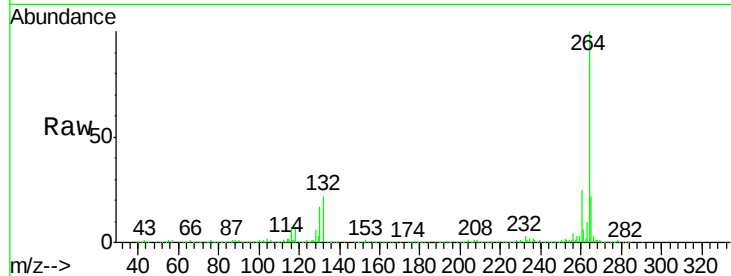
#86
Perylene-d12
Concen: 20.00 ng
RT: 15.05 min Scan# 1178
Delta R.T. -0.01 min
Lab File: BF090035.D
Acq: 8 Sep 2016 20:17

Instrument :
BNA_F
ClientSampleId :
SB-6-4.0-5.0

Tgt Ion	Ratio	Resp	Lower	Upper
264	100	446392		
260	24.6	19.4	29.0	
265	22.4	17.4	26.2	

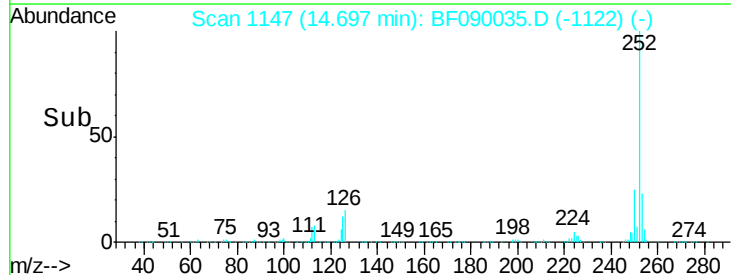
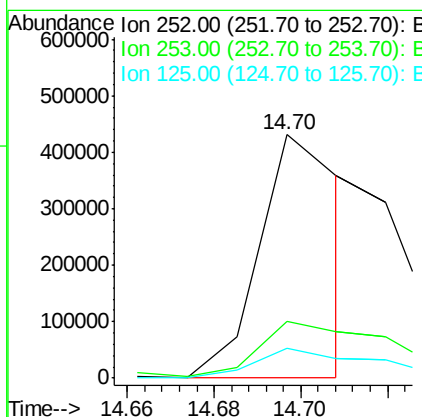
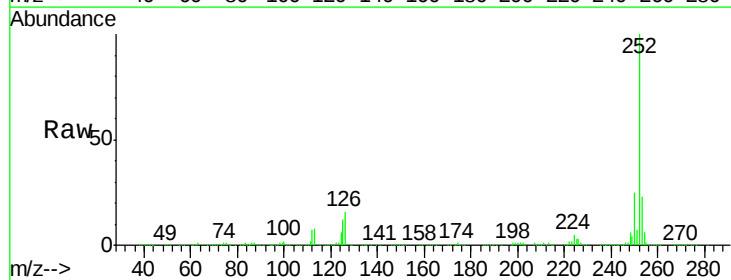
Manual Integrations
APPROVED

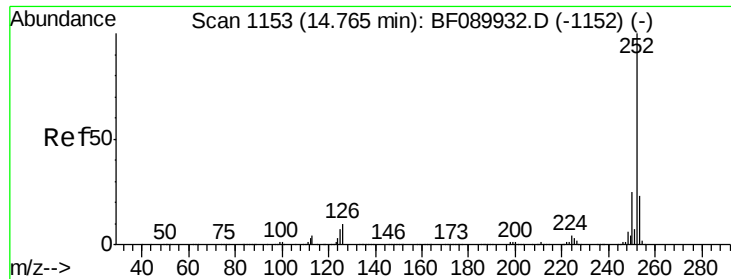
Sohil
9/9/2016 8:39:15 AM



#87
Benzo(b)fluoranthene
Concen: 21.17 ng m
RT: 14.70 min Scan# 1147
Delta R.T. -0.01 min
Lab File: BF090035.D
Acq: 8 Sep 2016 20:17

Tgt Ion	Ratio	Resp	Lower	Upper
252	100	592002		
253	23.1	18.0	27.0	
125	12.5	5.7	8.5#	





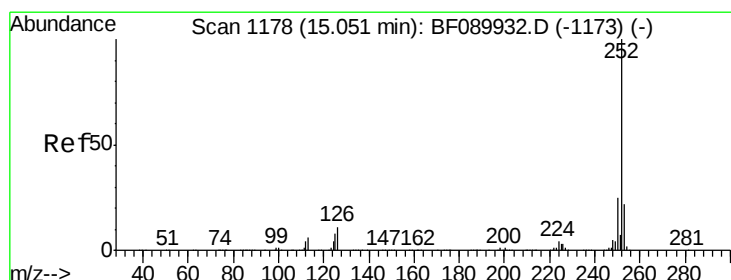
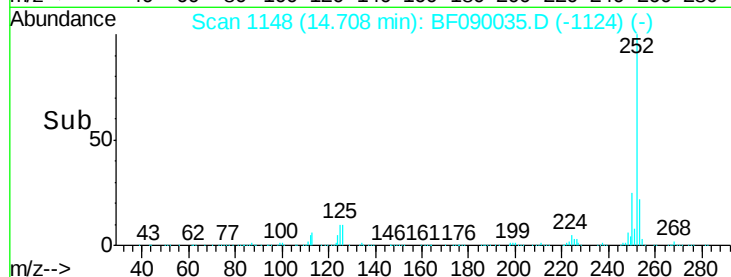
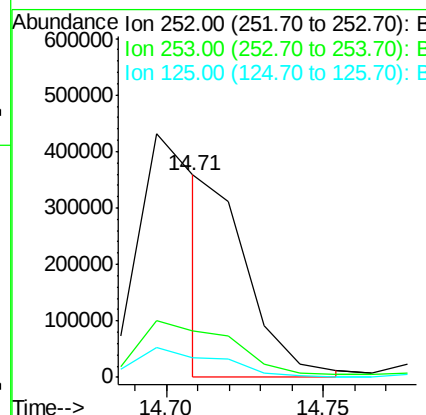
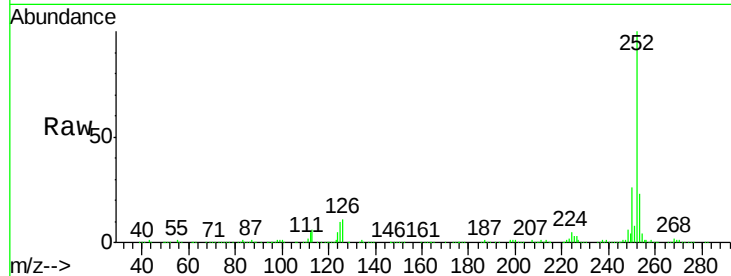
#88
Benzo(k)fluoranthene
Concen: 12.62 ng m
RT: 14.71 min Scan# 1148
Delta R.T. -0.02 min
Lab File: BF090035.D
Acq: 8 Sep 2016 20:17

Instrument :
BNA_F
ClientSampleId :
SB-6-4.0-5.0

Tgt Ion	Ratio	Resp	Lower	Upper
252	100	299547		
253	22.7	17.8	26.8	
125	10.0	7.3	10.9	

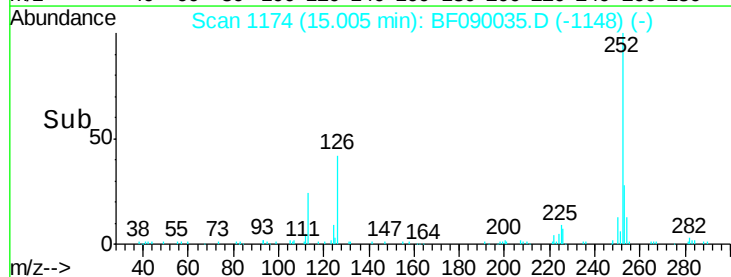
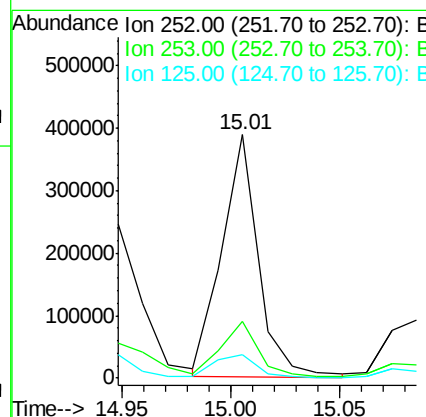
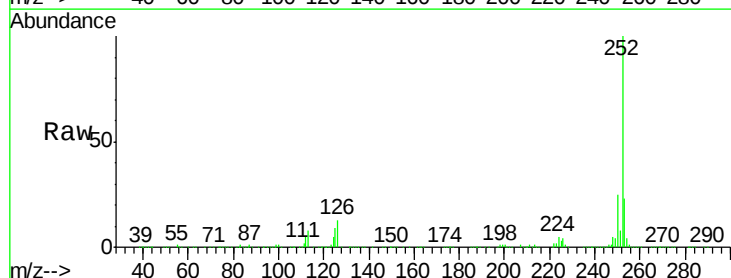
Manual Integrations
APPROVED

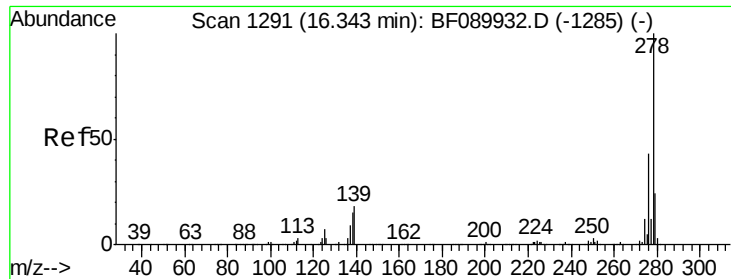
Sohil
9/9/2016 8:39:15 AM



#89
Benzo(a)pyrene
Concen: 18.95 ng
RT: 15.01 min Scan# 1174
Delta R.T. 0.00 min
Lab File: BF090035.D
Acq: 8 Sep 2016 20:17

Tgt Ion	Ratio	Resp	Lower	Upper
252	100	454037		
253	23.2	17.5	26.3	
125	9.4	6.3	9.5	





#90

Dibenzo(a,h)anthracene

Concen: 3.49 ng

RT: 16.27 min Scan# 1285

Delta R.T. -0.02 min

Lab File: BF090035.D

Acq: 8 Sep 2016 20:17

Instrument :

BNA_F

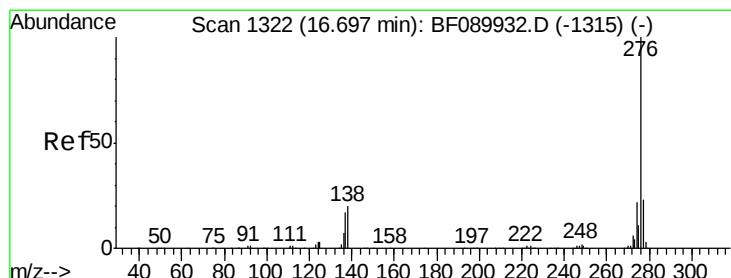
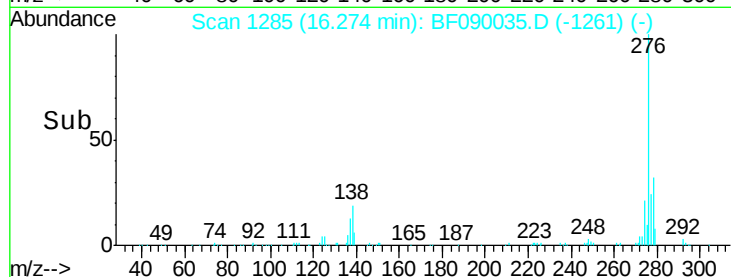
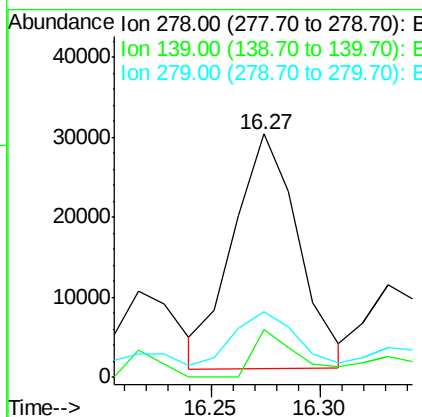
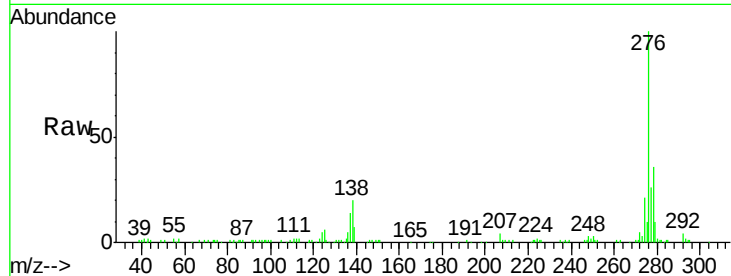
ClientSampleId :

SB-6-4.0-5.0

Tgt Ion:	278	Resp:	61336
Ion Ratio	Lower	Upper	
278	100		
139	19.8	13.4	20.2
279	26.9	19.4	29.2

Manual Integrations
APPROVED

Sohil
9/9/2016 8:39:15 AM



#91

Benzo(g,h,i)perylene

Concen: 11.63 ng

RT: 16.62 min Scan# 1315

Delta R.T. -0.02 min

Lab File: BF090035.D

Acq: 8 Sep 2016 20:17

Tgt Ion:	276	Resp:	205560
Ion Ratio	Lower	Upper	
276	100		
277	23.9	19.0	28.4
138	25.7	16.4	24.6

