

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF090816\
 Data File : BF090024.D
 Acq On : 8 Sep 2016 15:04
 Operator : UM/SJ
 Sample : H4680-11
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 BH-16-0-1FT

Manual Integrations
 APPROVED

Sohil
 9/9/2016 8:39:01 AM

Quant Time: Sep 08 16:21:19 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	190054	20.00	ng	-0.01
21) Naphthalene-d8	7.88	136	803270	20.00	ng	-0.01
38) Acenaphthene-d10	9.63	164	414460	20.00	ng	0.00
63) Phenanthrene-d10	11.11	188	758239	20.00	ng	0.00
75) Chrysene-d12	13.73	240	509591	20.00	ng	0.00
86) Perylene-d12	15.06	264	480102	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.18	112	1117578	94.12	ng	0.01
7) Phenol-d6	6.25	99	1460863	101.26	ng	0.00
23) Nitrobenzene-d5	7.16	82	832786	60.13	ng	-0.01
41) 2,4,6-Tribromophenol	10.42	330	370266	90.55	ng	0.00
44) 2-Fluorobiphenyl	8.97	172	1708699	67.68	ng	0.00
78) Terphenyl-d14	12.69	244	1243212	60.27	ng	0.00
Target Compounds						Qvalue
37) 2-Methylnaphthalene	8.59	142	57075	2.16	ng	96
49) Dimethylphthalate	9.37	163	993992	33.18	ng	98
59) Diethylphthalate	10.06	149	277360	9.84	ng	96
70) Phenanthrene	11.13	178	292949	7.76	ng	97
71) Anthracene	11.18	178	94389	2.46	ng	98
73) Di-n-butylphthalate	11.67	149	171864	4.11	ng	100
74) Fluoranthene	12.31	202	570221	14.41	ng	99
77) Pyrene	12.53	202	455025	12.66	ng	99
80) Benzo(a)anthracene	13.71	228	248507	7.96	ng	96
82) Chrysene	13.75	228	220869m	7.58	ng	
83) Bis(2-ethylhexyl)phthalate	13.73	149	55813	2.78	ng	# 94
85) Indeno(1,2,3-cd)pyrene	16.26	276	106087	4.92	ng	94
87) Benzo(b)fluoranthene	14.70	252	239528m	7.96	ng	
88) Benzo(k)fluoranthene	14.71	252	126549m	4.96	ng	
89) Benzo(a)pyrene	15.01	252	176872	6.86	ng	# 97
91) Benzo(g,h,i)perylene	16.63	276	89342	4.70	ng	97

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

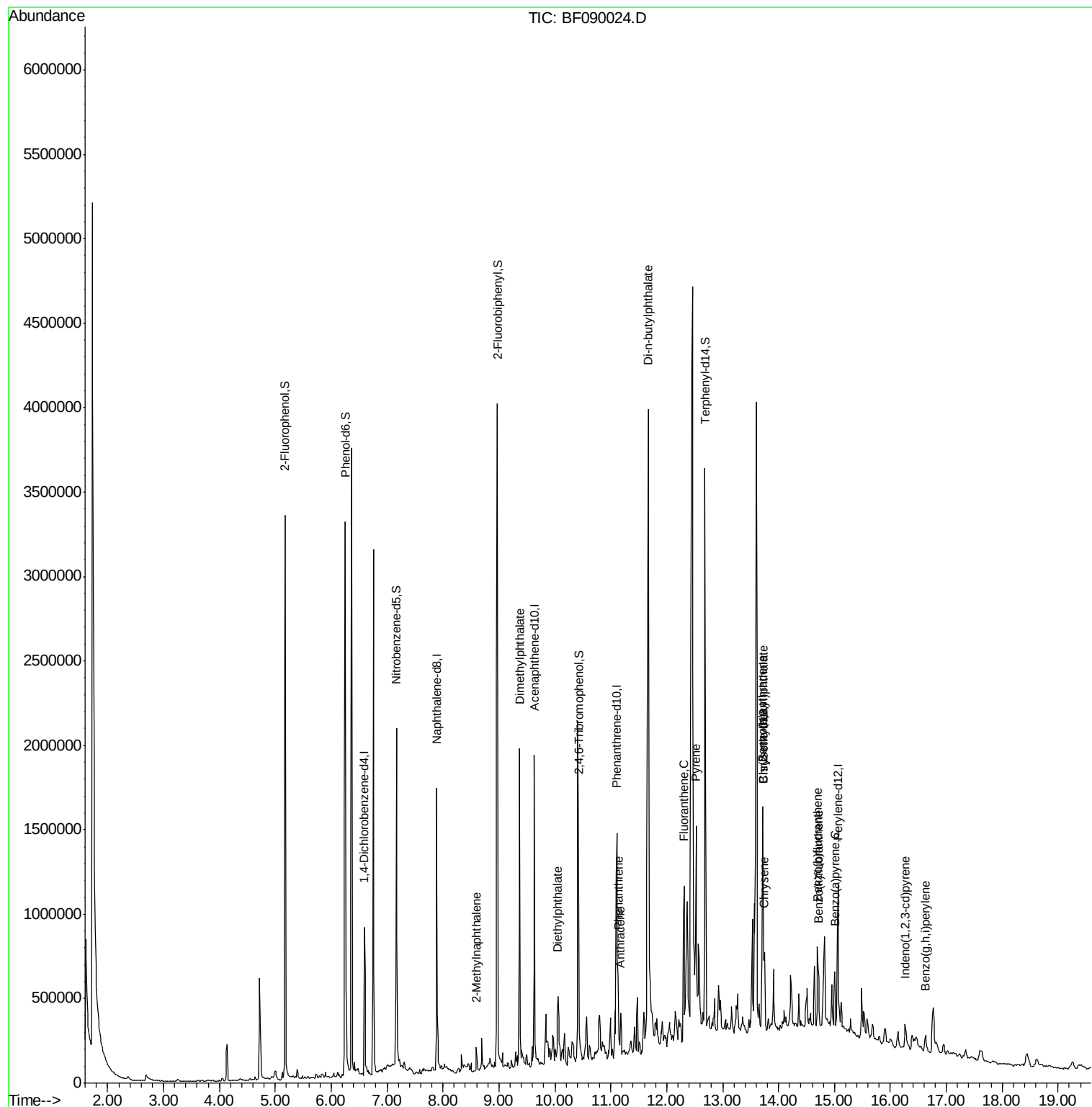
Data Path : Z:\HPCHEM1\BNA_F\DATA\BF090816\
Data File : BF090024.D
Acq On : 8 Sep 2016 15:04
Operator : UM/SJ
Sample : H4680-11
Misc :
ALS Vial : 3 Sample Multiplier: 1

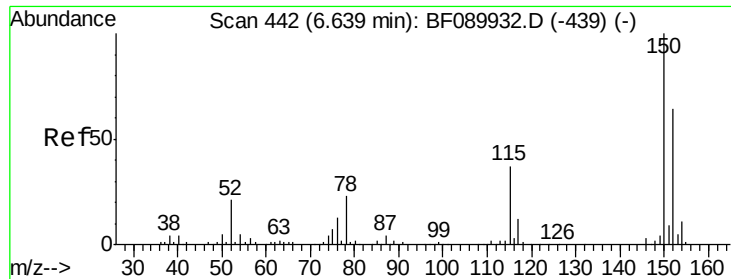
Instrument :
BNA_F
ClientSampleId :
BH-16-0-1FT

Manual Integrations
APPROVED

Sohil
9/9/2016 8:39:01 AM

Quant Time: Sep 08 16:21:19 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

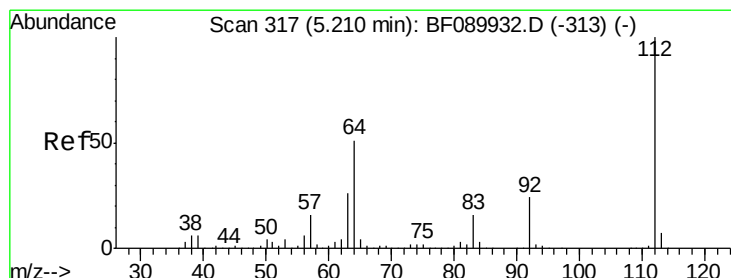
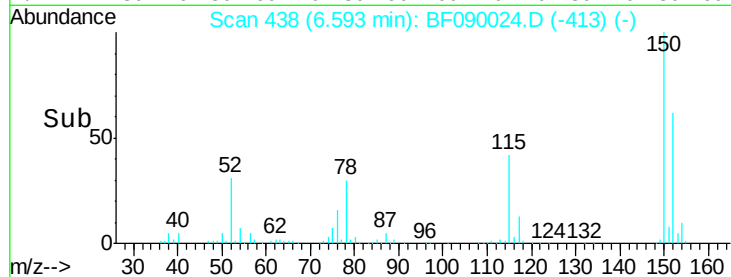
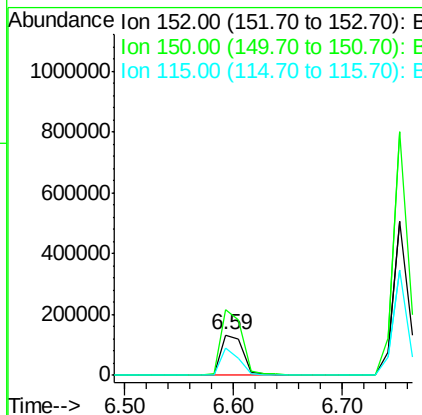
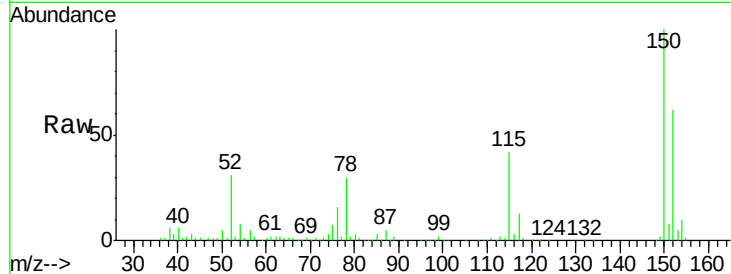
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 6.59 min Scan# 438
Delta R.T. -0.01 min
Lab File: BF090024.D
Acq: 8 Sep 2016 15:04

Instrument :
BNA_F
ClientSampleId :
BH-16-0-1FT

Tgt Ion	Ratio	Lower	Upper
152	100		
150	161.6	127.4	191.2
115	68.0	46.3	69.5

Manual Integrations
APPROVED

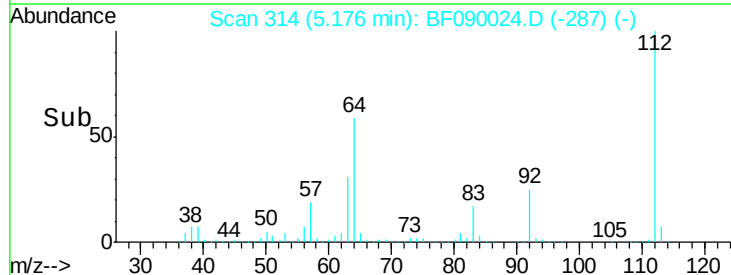
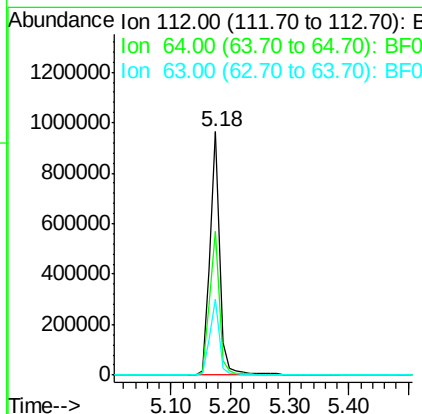
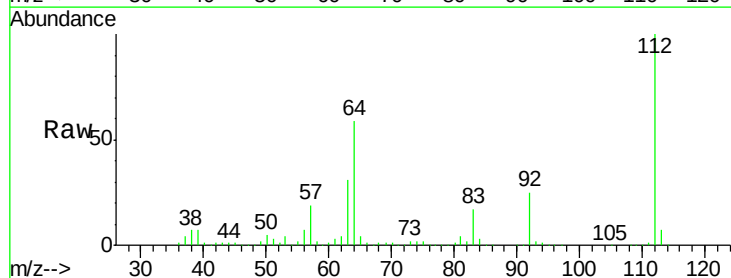
Sohil
9/9/2016 8:39:01 AM

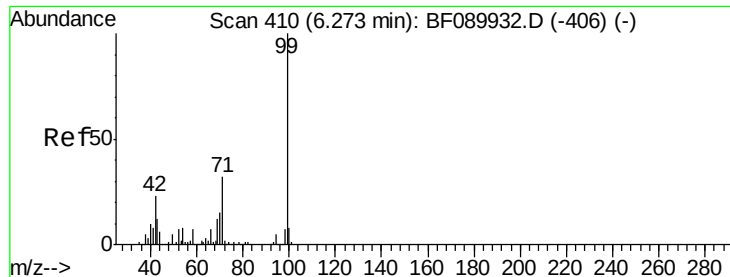


#5

2-Fluorophenol
Concen: 94.12 ng
RT: 5.18 min Scan# 314
Delta R.T. 0.01 min
Lab File: BF090024.D
Acq: 8 Sep 2016 15:04

Tgt Ion	Ratio	Lower	Upper
112	100		
64	58.9	41.1	61.7
63	30.9	21.2	31.8





#7

Phenol-d6

Concen: 101.26 ng

RT: 6.25 min Scan# 408

Delta R.T. 0.00 min

Lab File: BF090024.D

Acq: 8 Sep 2016 15:04

Instrument :

BNA_F

ClientSampleId :

BH-16-0-1FT

Tgt Ion: 99 Resp: 1460863

Ion Ratio Lower Upper

99 100

42 22.2 18.6 27.8

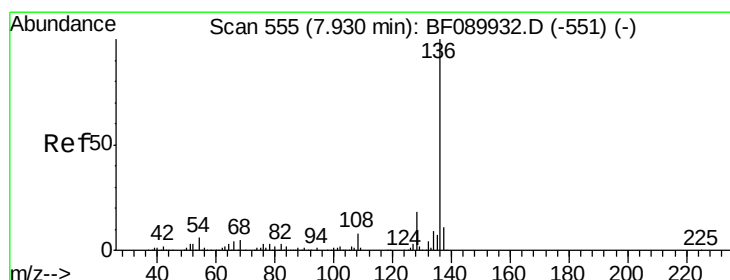
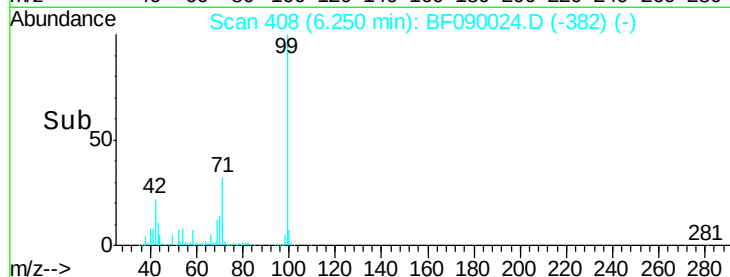
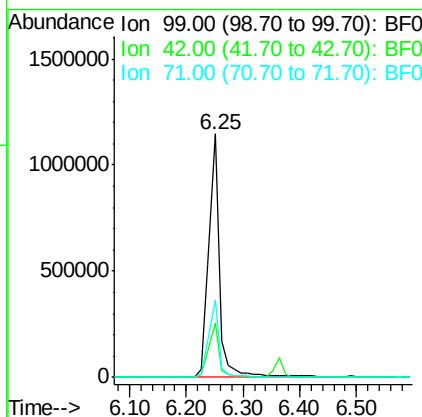
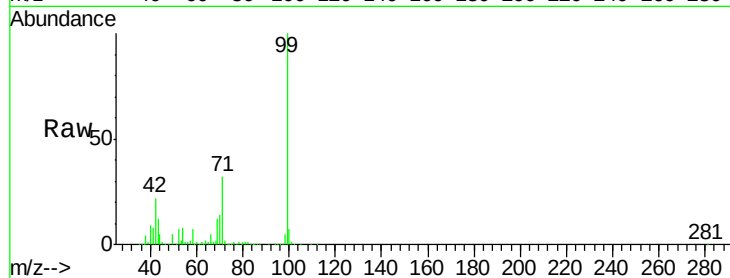
71 31.9 25.8 38.6

Manual Integrations

APPROVED

Sohil

9/9/2016 8:39:01 AM



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 7.88 min Scan# 551

Delta R.T. -0.01 min

Lab File: BF090024.D

Acq: 8 Sep 2016 15:04

Tgt Ion: 136 Resp: 803270

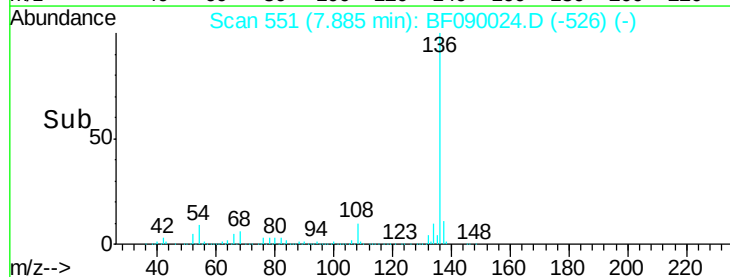
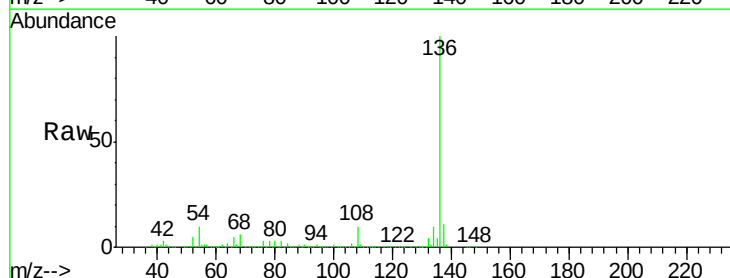
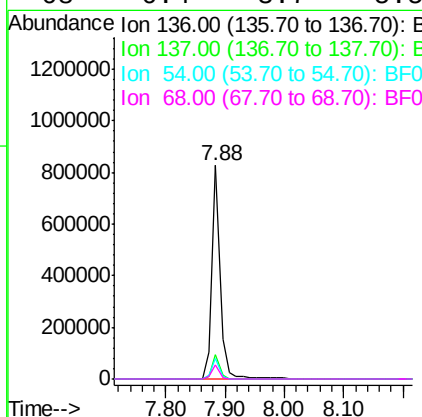
Ion Ratio Lower Upper

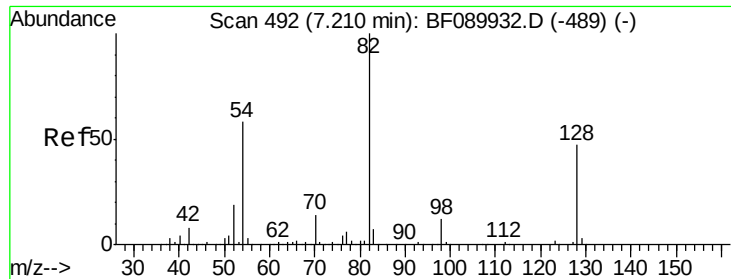
136 100

137 11.3 8.3 12.5

54 9.5 4.8 7.2#

68 6.4 3.7 5.5#





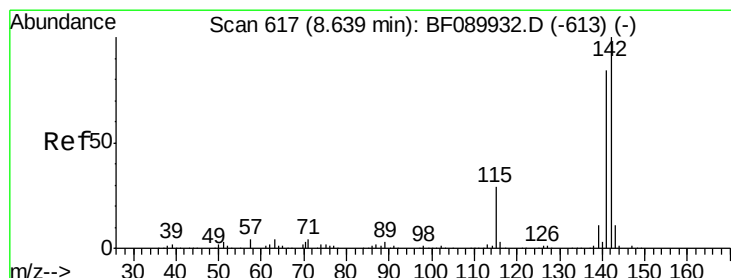
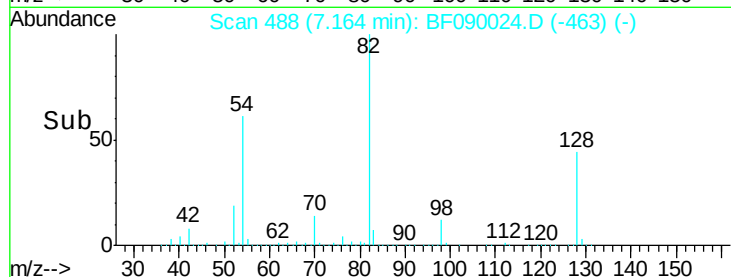
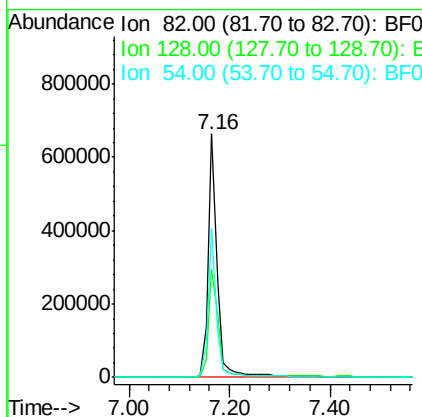
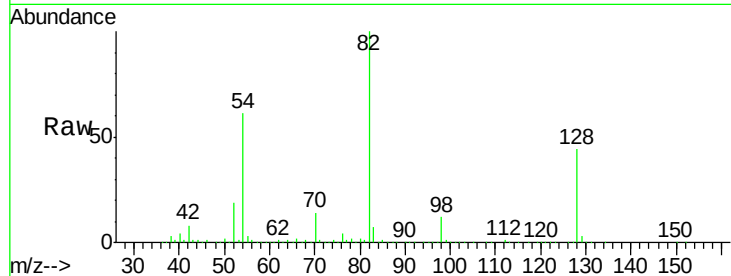
#23
 Nitrobenzene-d5
 Concen: 60.13 ng
 RT: 7.16 min Scan# 488
 Delta R.T. -0.01 min
 Lab File: BF090024.D
 Acq: 8 Sep 2016 15:04

Instrument :
 BNA_F
 ClientSampleId :
 BH-16-0-1FT

Tgt Ion	Ratio	Lower	Upper
82	100		
128	44.4	37.8	56.8
54	61.2	46.9	70.3

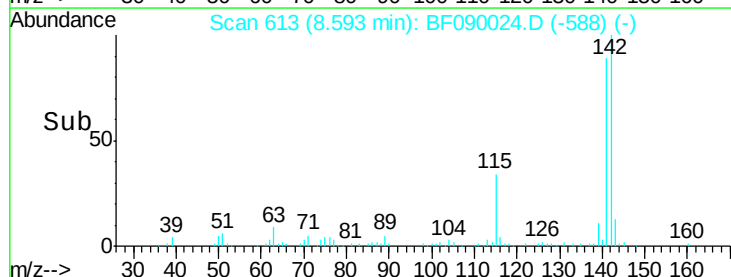
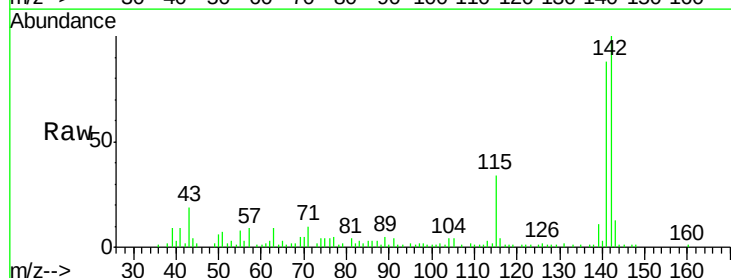
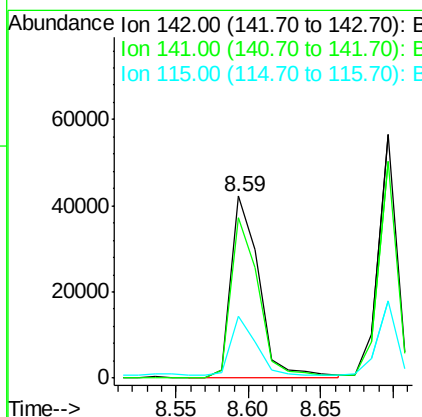
Manual Integrations
 APPROVED

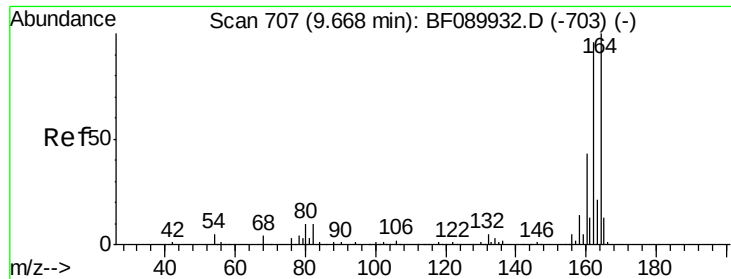
Sohil
 9/9/2016 8:39:01 AM



#37
 2-Methylnaphthalene
 Concen: 2.16 ng
 RT: 8.59 min Scan# 613
 Delta R.T. -0.01 min
 Lab File: BF090024.D
 Acq: 8 Sep 2016 15:04

Tgt Ion	Ratio	Lower	Upper
142	100		
141	88.0	68.3	102.5
115	34.3	23.8	35.8





#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.63 min Scan# 704

Delta R.T. 0.00 min

Lab File: BF090024.D

Acq: 8 Sep 2016 15:04

Instrument :

BNA_F

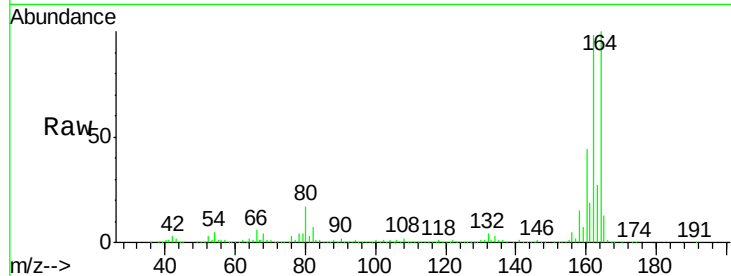
ClientSampled :

BH-16-0-1FT

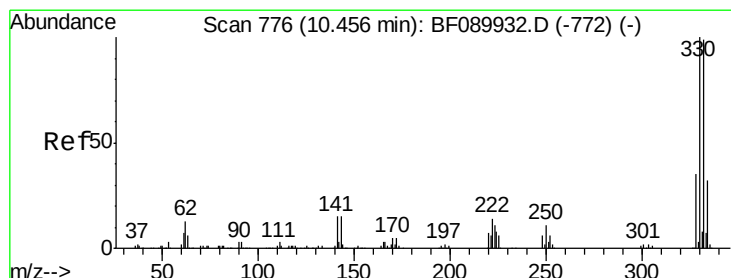
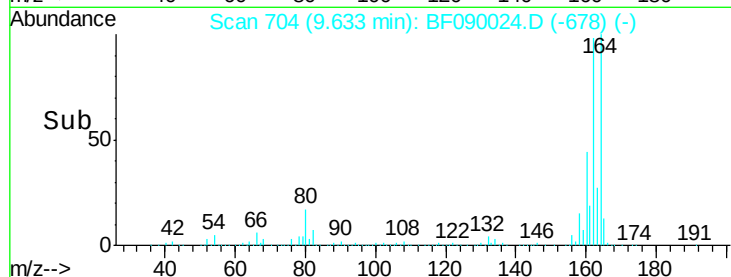
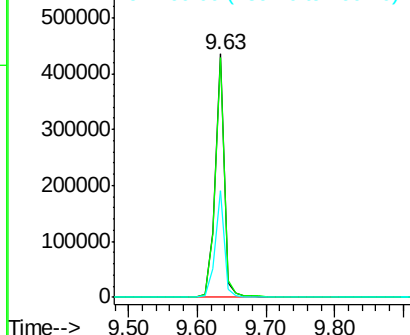
Tgt Ion:	164	Resp:	414460
Ion Ratio	Lower	Upper	
164	100		
162	98.3	77.1	115.7
160	43.8	35.3	52.9

Manual Integrations
APPROVED

Sohil
9/9/2016 8:39:01 AM



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: 90.55 ng

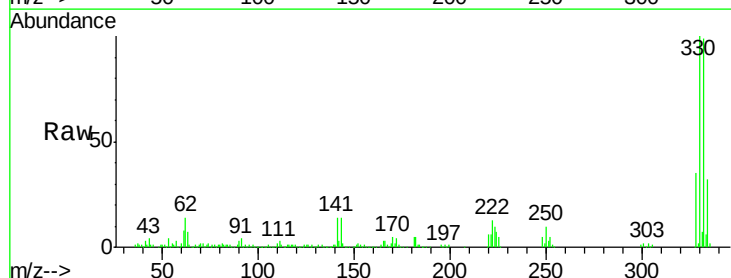
RT: 10.42 min Scan# 773

Delta R.T. 0.00 min

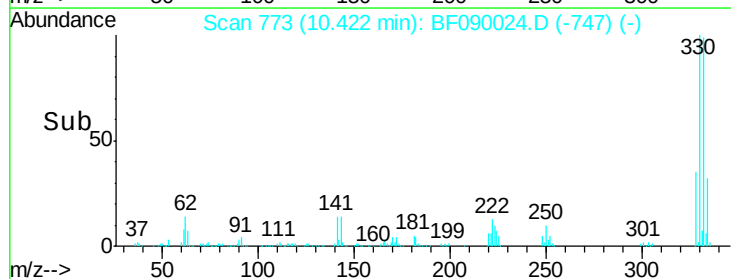
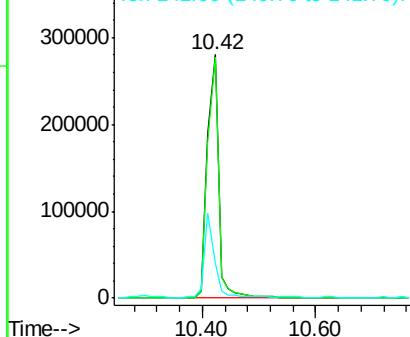
Lab File: BF090024.D

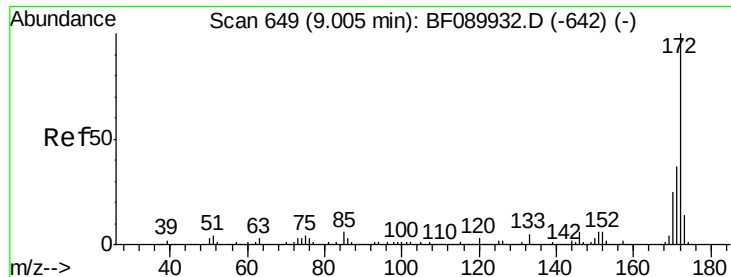
Acq: 8 Sep 2016 15:04

Tgt Ion:	330	Resp:	370266
Ion Ratio	Lower	Upper	
330	100		
332	97.5	78.6	117.8
141	30.5	23.3	34.9



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





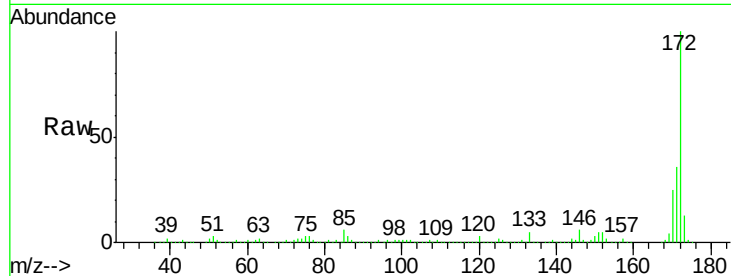
#44
2-Fluorobiphenyl
Concen: 67.68 ng
RT: 8.97 min Scan# 646
Delta R.T. 0.00 min
Lab File: BF090024.D
Acq: 8 Sep 2016 15:04

Instrument :
BNA_F
ClientSampleId :
BH-16-0-1FT

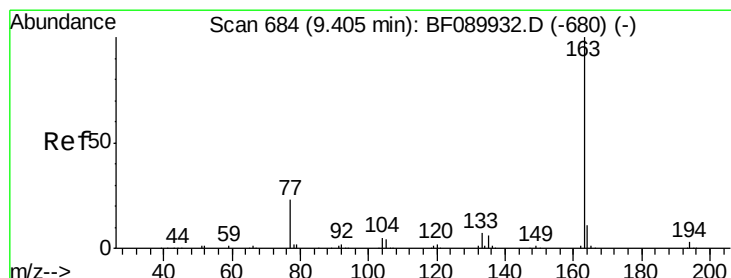
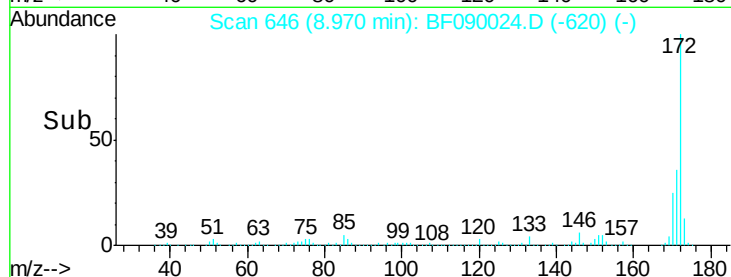
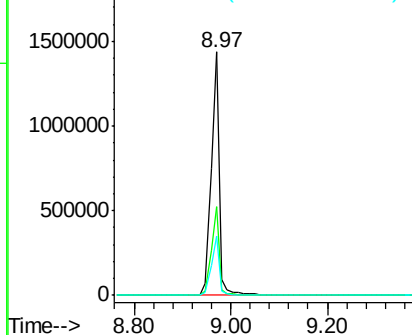
Tgt Ion:172 Resp: 1708699
Ion Ratio Lower Upper
172 100
171 36.4 29.4 44.2
170 24.6 20.1 30.1

Manual Integrations
APPROVED

Sohil
9/9/2016 8:39:01 AM

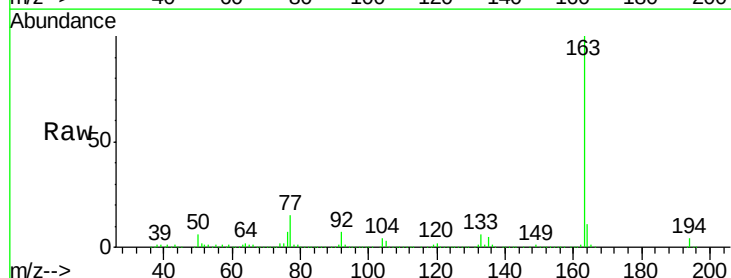


Abundance Ion 172.00 (171.70 to 172.70): E
Ion 171.00 (170.70 to 171.70): E
Ion 170.00 (169.70 to 170.70): E

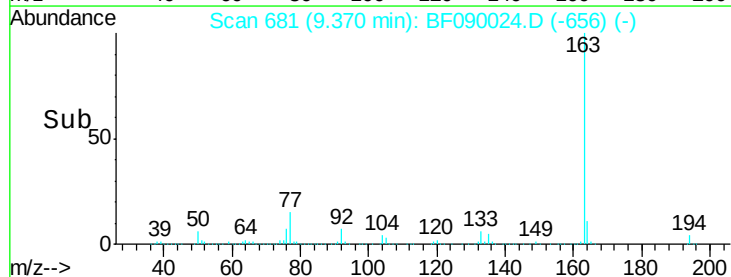
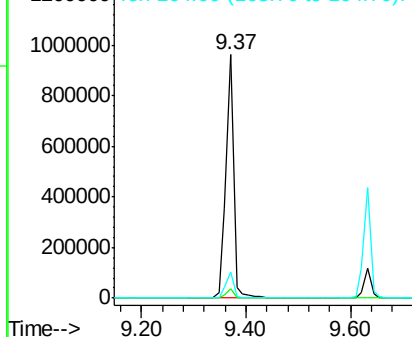


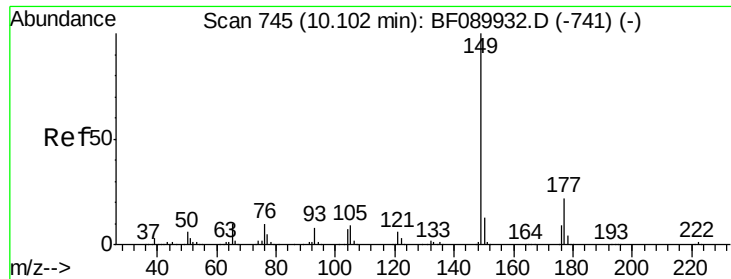
#49
Dimethylphthalate
Concen: 33.18 ng
RT: 9.37 min Scan# 681
Delta R.T. -0.01 min
Lab File: BF090024.D
Acq: 8 Sep 2016 15:04

Tgt Ion:163 Resp: 993992
Ion Ratio Lower Upper
163 100
194 3.9 2.7 4.1
164 10.5 9.0 13.4



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





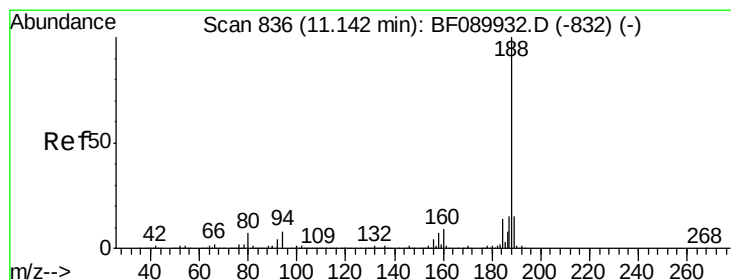
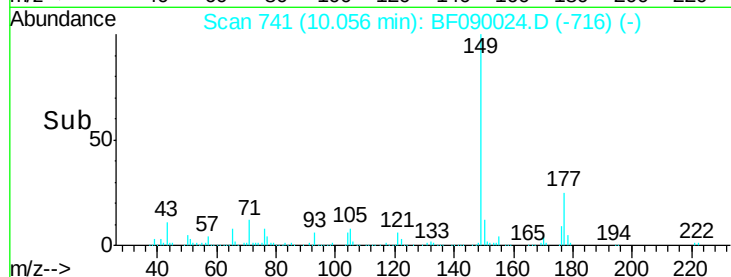
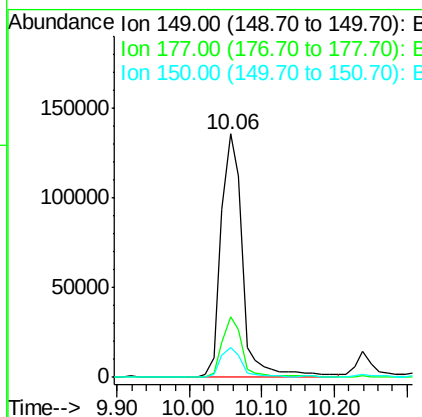
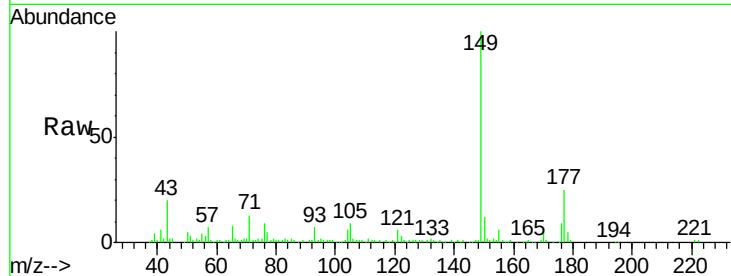
#59
Diethylphthalate
Concen: 9.84 ng
RT: 10.06 min Scan# 741
Delta R.T. -0.01 min
Lab File: BF090024.D
Acq: 8 Sep 2016 15:04

Instrument :
BNA_F
ClientSampleId :
BH-16-0-1FT

Tgt Ion	Ratio	Lower	Upper
149	100		
177	24.7	17.7	26.5
150	12.3	10.2	15.2

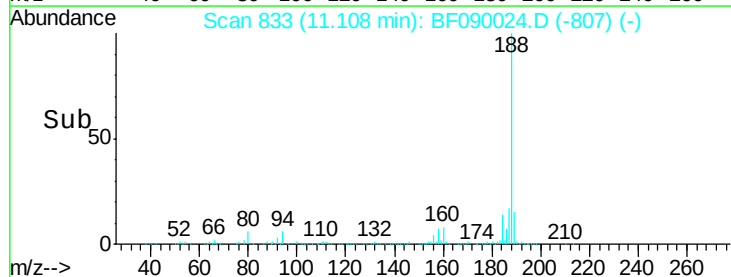
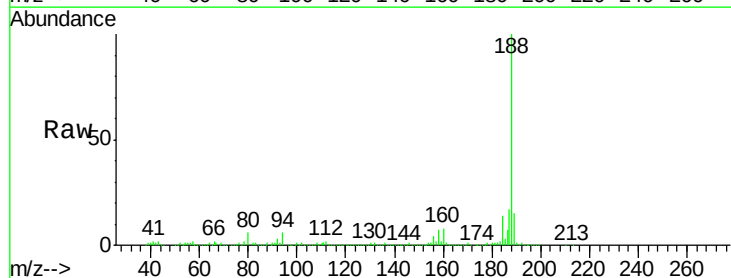
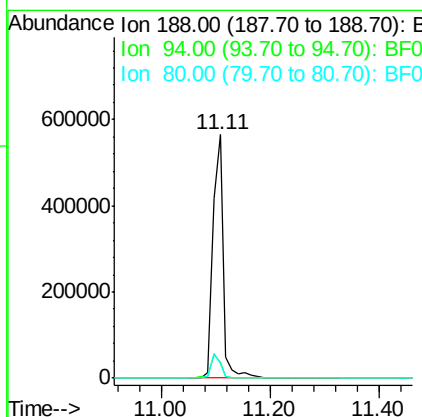
Manual Integrations
APPROVED

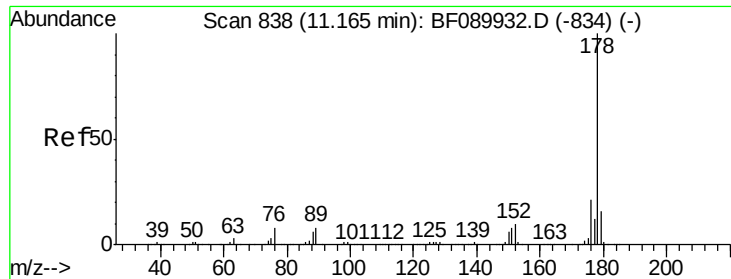
Sohil
9/9/2016 8:39:01 AM



#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 11.11 min Scan# 833
Delta R.T. 0.00 min
Lab File: BF090024.D
Acq: 8 Sep 2016 15:04

Tgt Ion	Ratio	Lower	Upper
188	100		
94	6.4	5.9	8.9
80	6.2	5.8	8.8





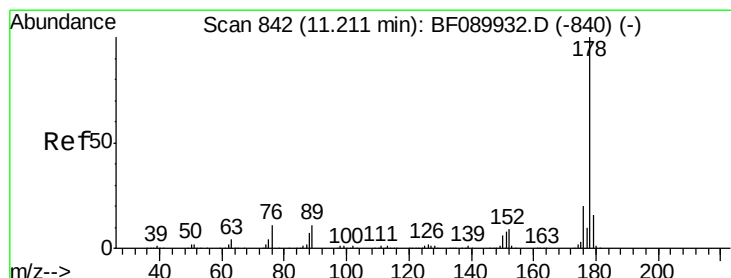
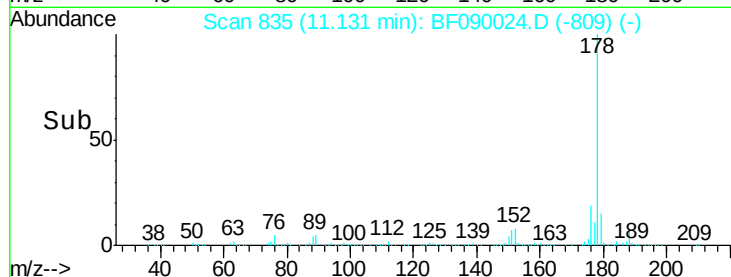
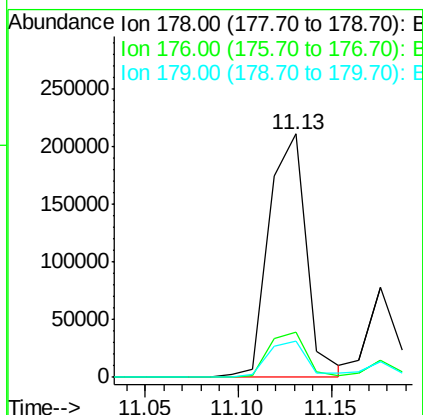
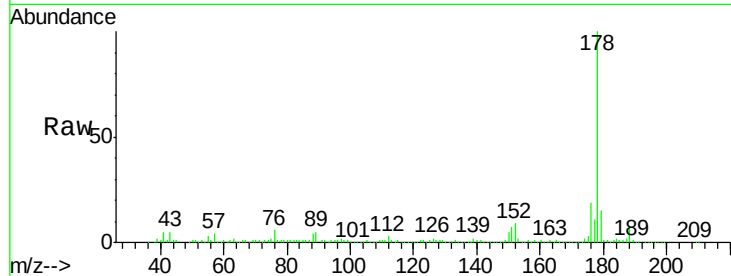
#70
Phenanthrene
Concen: 7.76 ng
RT: 11.13 min Scan# 835
Delta R.T. 0.00 min
Lab File: BF090024.D
Acq: 8 Sep 2016 15:04

Instrument :
BNA_F
ClientSampleId :
BH-16-0-1FT

Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.8	16.5	24.7
179	14.9	12.8	19.2

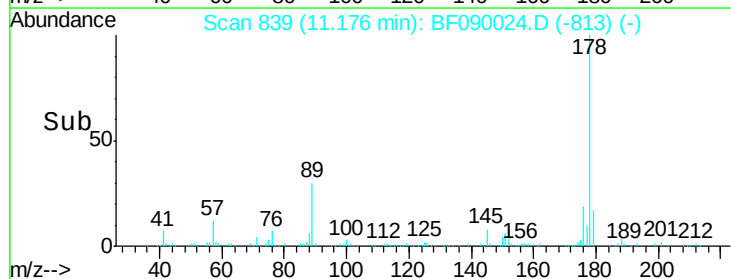
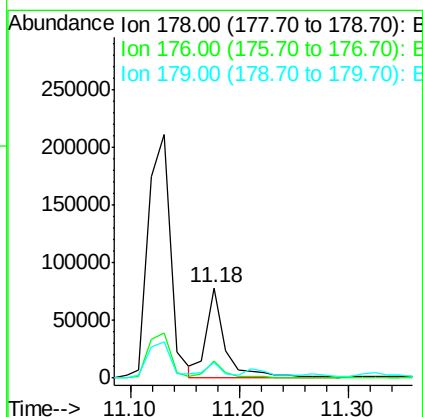
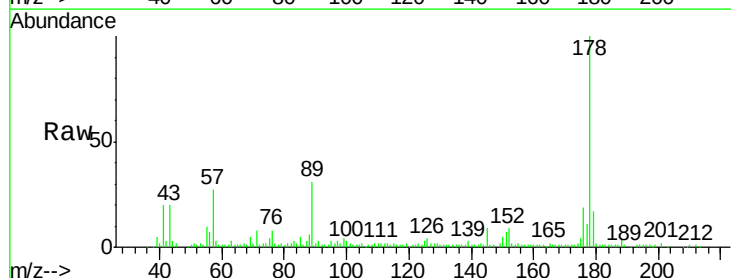
Manual Integrations
APPROVED

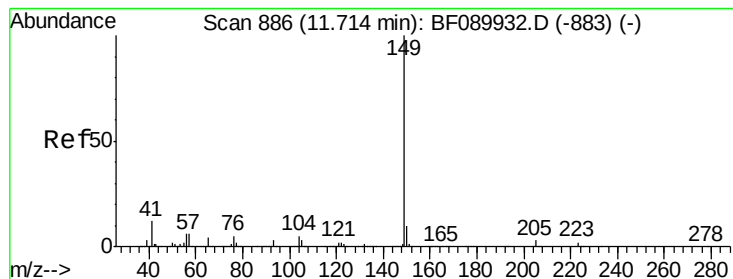
Sohil
9/9/2016 8:39:01 AM



#71
Anthracene
Concen: 2.46 ng
RT: 11.18 min Scan# 839
Delta R.T. 0.00 min
Lab File: BF090024.D
Acq: 8 Sep 2016 15:04

Tgt Ion	Ratio	Lower	Upper
178	100		
176	19.3	15.8	23.8
179	17.4	13.0	19.4





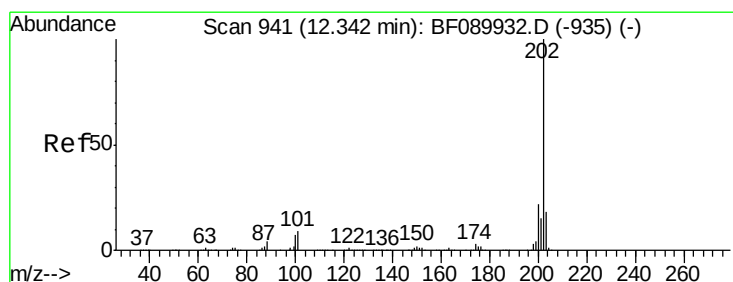
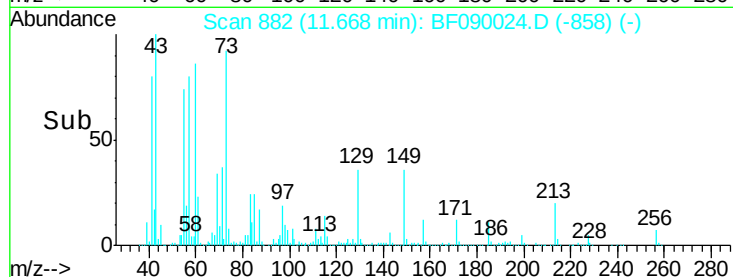
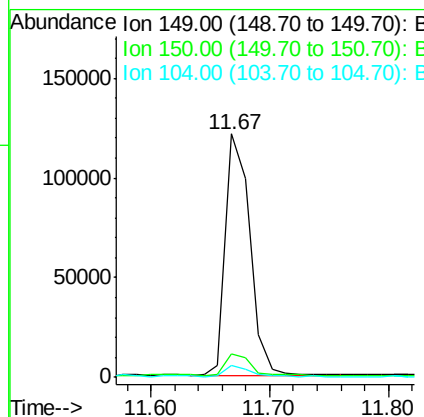
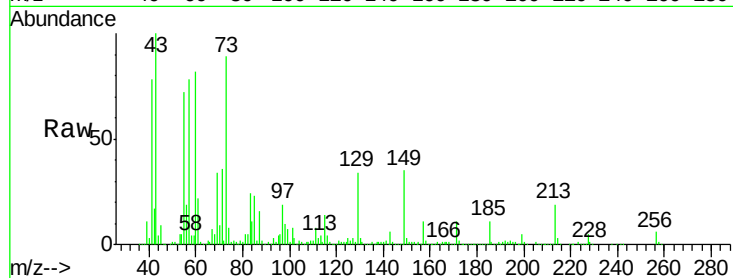
#73
Di-n-butylphthalate
Concen: 4.11 ng
RT: 11.67 min Scan# 882
Delta R.T. -0.02 min
Lab File: BF090024.D
Acq: 8 Sep 2016 15:04

Instrument :
BNA_F
ClientSampleId :
BH-16-0-1FT

Tgt Ion	Ratio	Resp	Lower	Upper
149	100	171864		
150	9.8	7.8	11.8	
104	4.9	3.9	5.9	

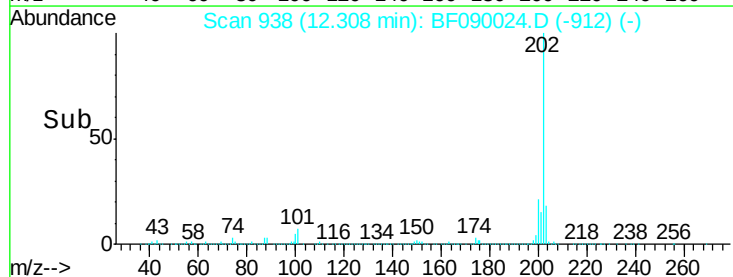
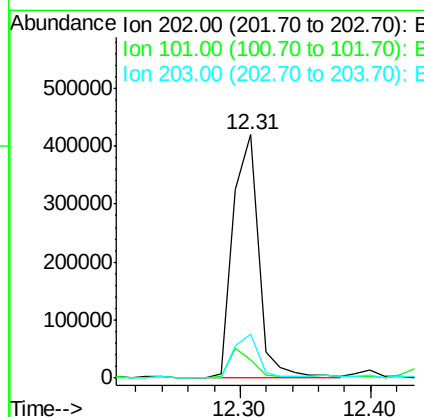
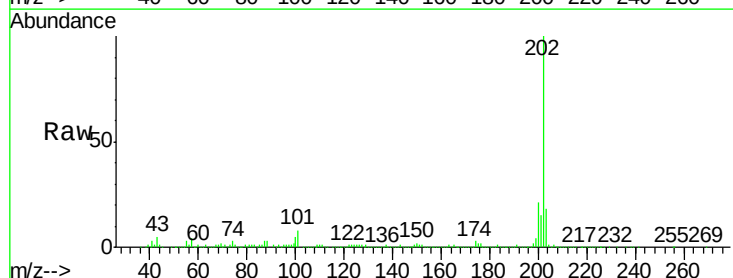
Manual Integrations
APPROVED

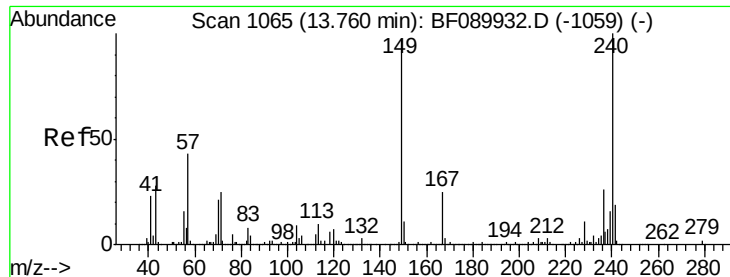
Sohil
9/9/2016 8:39:01 AM



#74
Fluoranthene
Concen: 14.41 ng
RT: 12.31 min Scan# 938
Delta R.T. 0.00 min
Lab File: BF090024.D
Acq: 8 Sep 2016 15:04

Tgt Ion	Ratio	Resp	Lower	Upper
202	100	570221		
101	7.6	0.0	28.5	
203	17.9	0.0	38.0	





#75

Chrysene-d12

Concen: 20.00 ng

RT: 13.73 min Scan# 1062

Delta R.T. 0.00 min

Lab File: BF090024.D

Acq: 8 Sep 2016 15:04

Instrument :

BNA_F

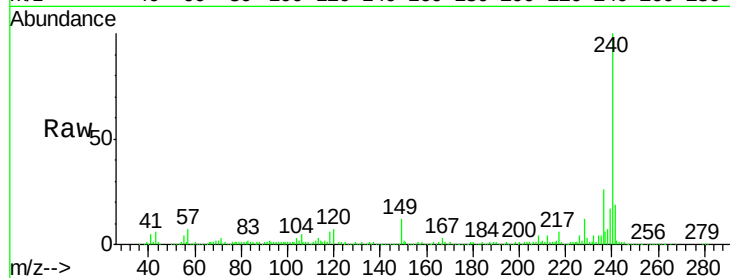
ClientSampleId :

BH-16-0-1FT

Tgt Ion:	240	Resp:	509591
Ion Ratio	Lower	Upper	
240	100		
120	7.4	5.7	8.5
236	26.0	21.3	31.9

Manual Integrations
APPROVED

Sohil
9/9/2016 8:39:01 AM



Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

13.73

400000

300000

200000

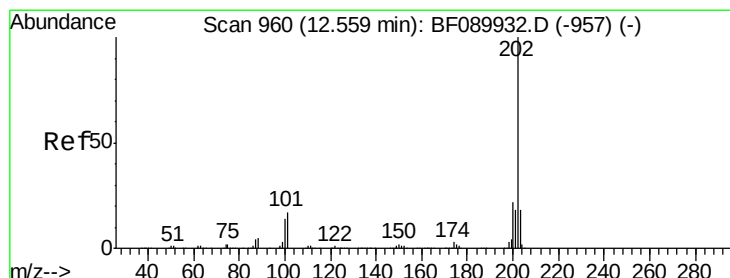
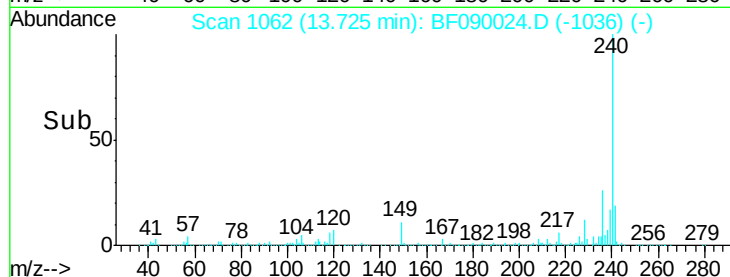
100000

0

13.60

13.80

Time-->



#77

Pyrene

Concen: 12.66 ng

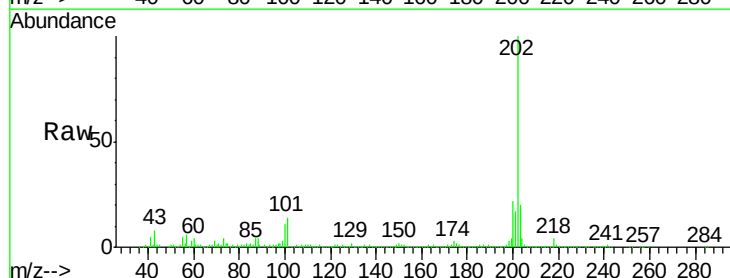
RT: 12.53 min Scan# 957

Delta R.T. -0.01 min

Lab File: BF090024.D

Acq: 8 Sep 2016 15:04

Tgt Ion:	202	Resp:	455025
Ion Ratio	Lower	Upper	
202	100		
200	22.1	17.6	26.4
203	19.6	14.6	21.8



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

12.53

600000

500000

400000

300000

200000

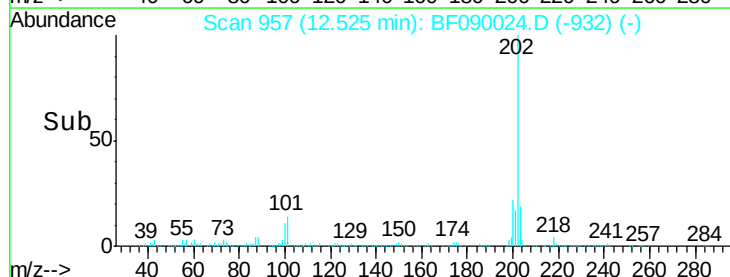
100000

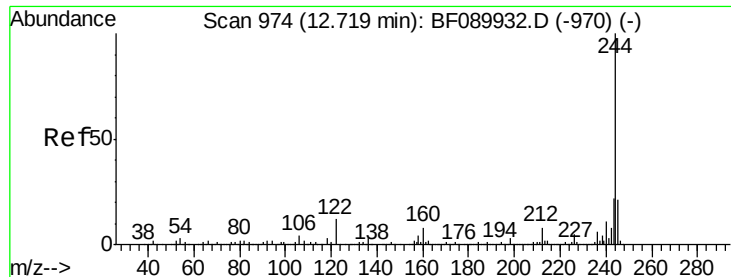
0

12.50

12.60

Time-->





#78

Terphenyl-d14

Concen: 60.27 ng

RT: 12.69 min Scan# 971

Delta R.T. 0.00 min

Lab File: BF090024.D

Acq: 8 Sep 2016 15:04

Instrument :

BNA_F

ClientSampled :

BH-16-0-1FT

Tgt Ion:244 Resp: 1243212

Ion Ratio Lower Upper

244 100

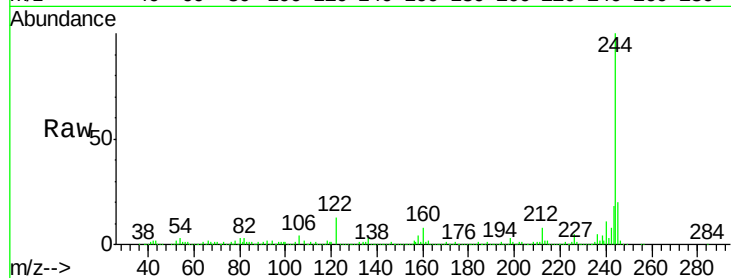
212 7.8 6.1 9.1

122 12.9 9.6 14.4

Manual Integrations
APPROVED

Sohil

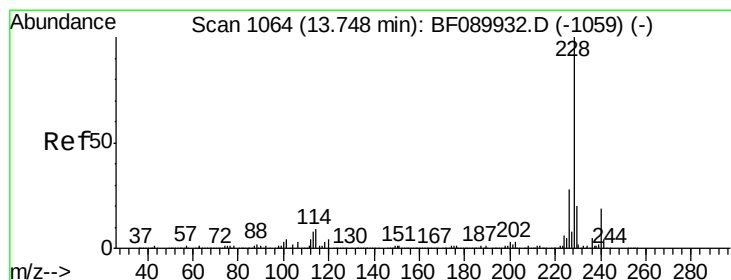
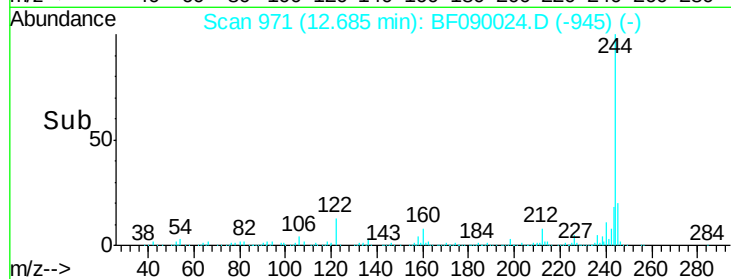
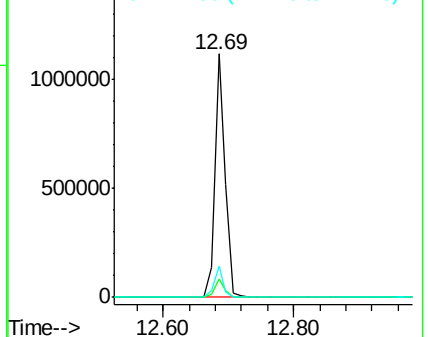
9/9/2016 8:39:01 AM



Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E



#80

Benzo(a)anthracene

Concen: 7.96 ng

RT: 13.71 min Scan# 1061

Delta R.T. 0.00 min

Lab File: BF090024.D

Acq: 8 Sep 2016 15:04

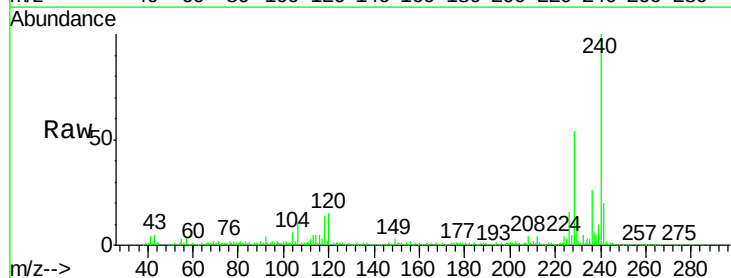
Tgt Ion:228 Resp: 248507

Ion Ratio Lower Upper

228 100

226 29.5 22.2 33.2

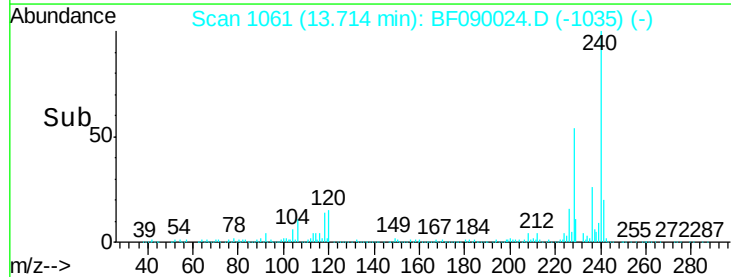
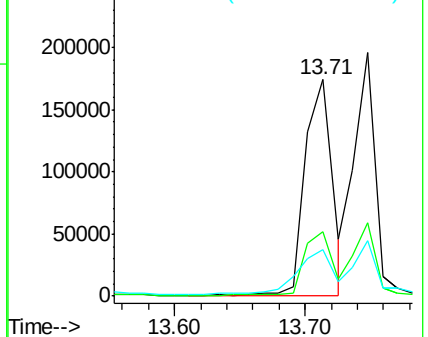
229 21.6 15.8 23.6

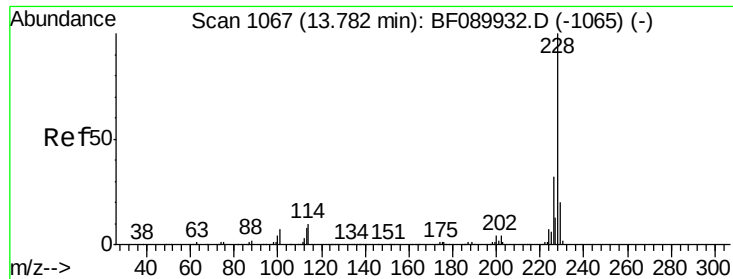


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





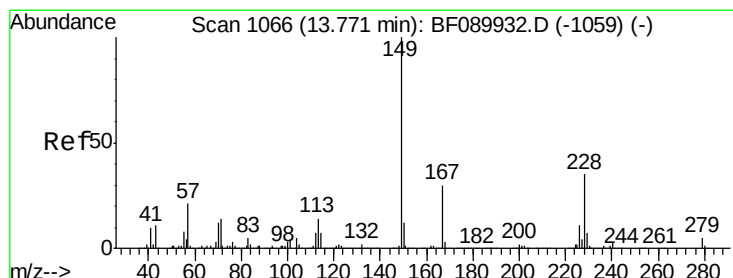
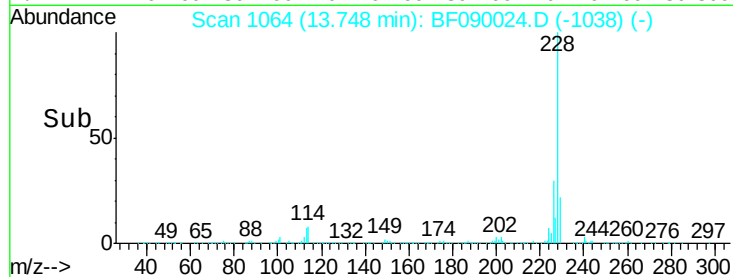
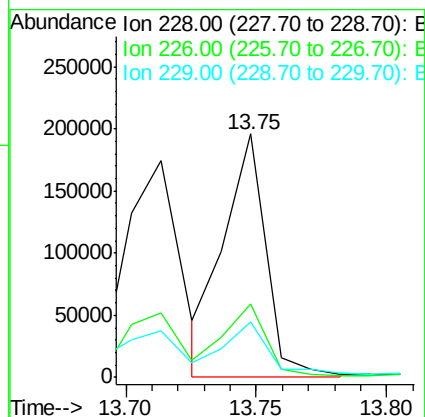
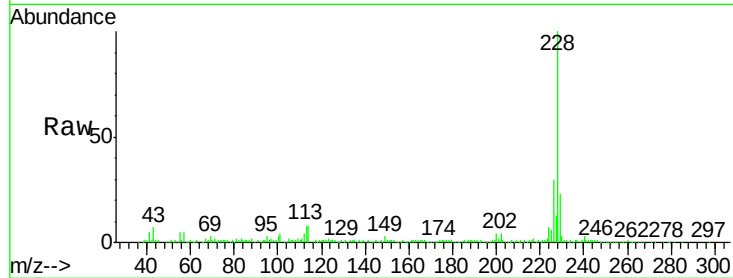
#82
Chrysene
 Concen: 7.58 ng m
 RT: 13.75 min Scan# 1064
 Delta R.T. 0.00 min
 Lab File: BF090024.D
 Acq: 8 Sep 2016 15:04

Instrument :
 BNA_F
 ClientSampled :
 BH-16-0-1FT

Tgt Ion:	228	Resp:	220869
Ion Ratio	Lower	Upper	
228	100		
226	30.3	25.2	37.8
229	22.8	16.2	24.2

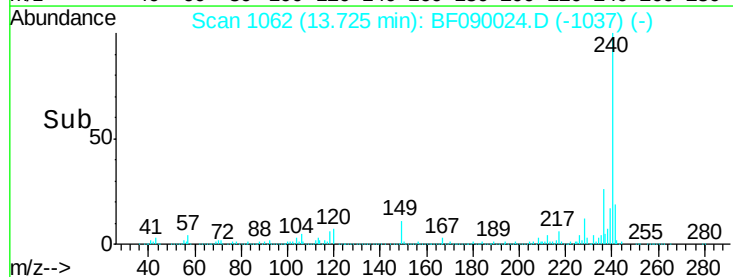
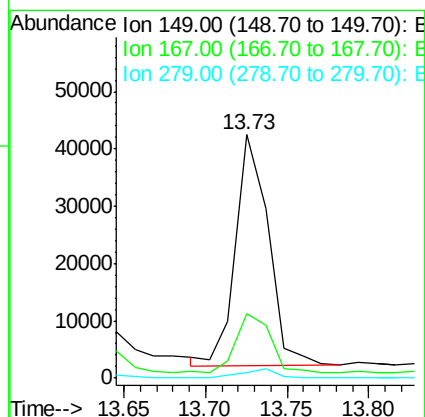
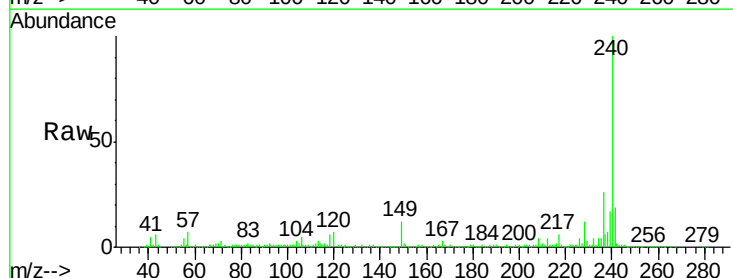
Manual Integrations
 APPROVED

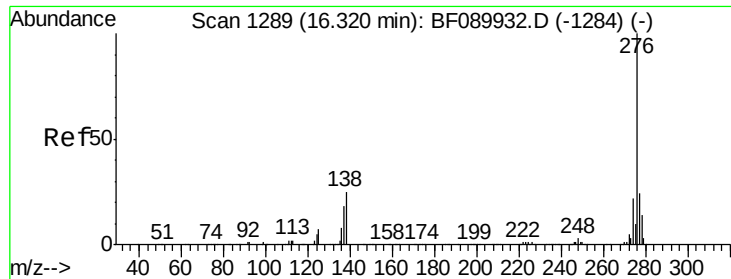
Sohil
 9/9/2016 8:39:01 AM



#83
Bis(2-ethylhexyl)phthalate
 Concen: 2.78 ng
 RT: 13.73 min Scan# 1062
 Delta R.T. -0.01 min
 Lab File: BF090024.D
 Acq: 8 Sep 2016 15:04

Tgt Ion:	149	Resp:	55813
Ion Ratio	Lower	Upper	
149	100		
167	26.5	23.6	35.4
279	2.5	3.4	5.2#





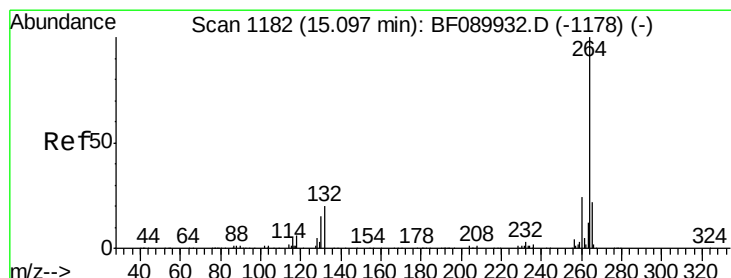
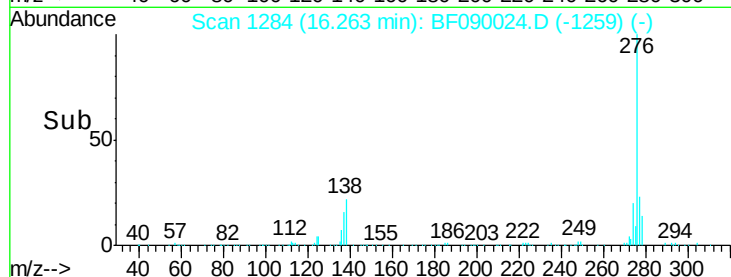
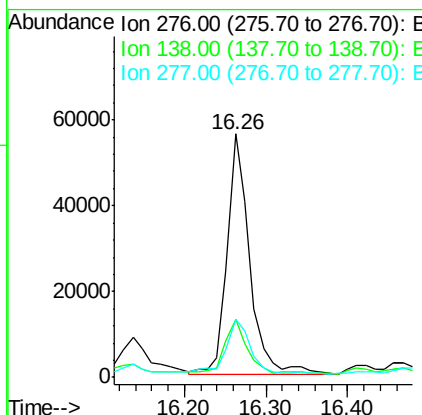
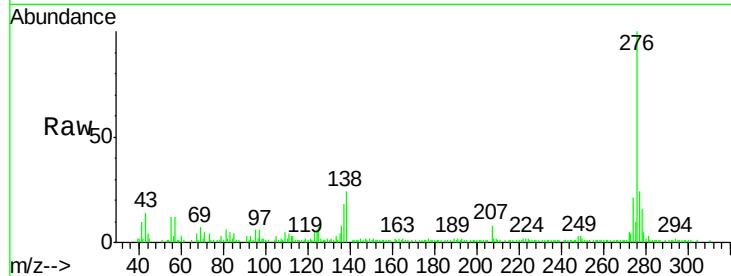
#85
Indeno(1,2,3-cd)pyrene
Concen: 4.92 ng
RT: 16.26 min Scan# 1284
Delta R.T. -0.01 min
Lab File: BF090024.D
Acq: 8 Sep 2016 15:04

Instrument :
BNA_F
ClientSampleId :
BH-16-0-1FT

Tgt Ion	Ratio	Lower	Upper
276	100		
138	23.2	22.6	34.0
277	23.9	20.1	30.1

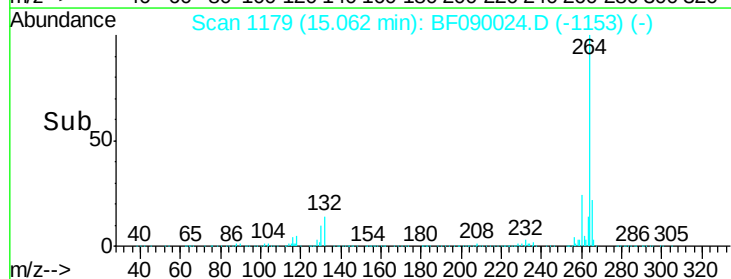
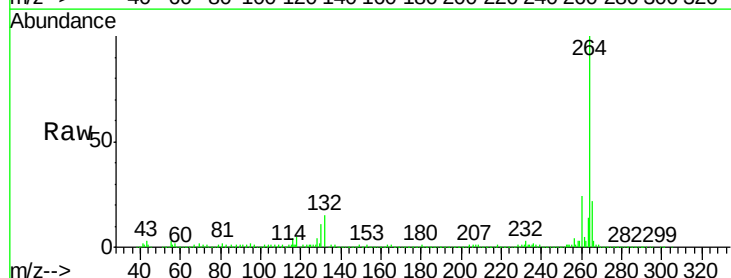
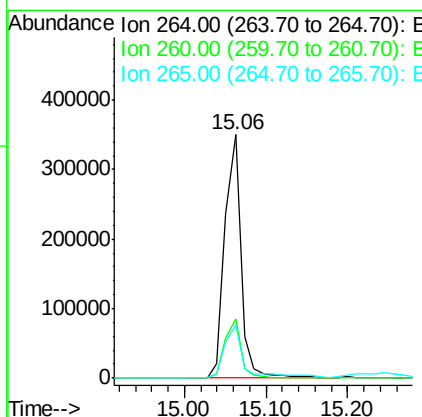
Manual Integrations
APPROVED

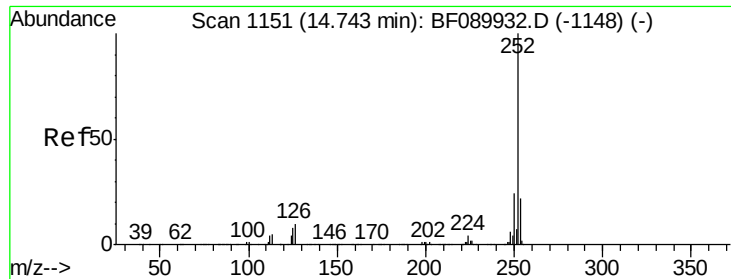
Sohil
9/9/2016 8:39:01 AM



#86
Perylene-d12
Concen: 20.00 ng
RT: 15.06 min Scan# 1179
Delta R.T. 0.00 min
Lab File: BF090024.D
Acq: 8 Sep 2016 15:04

Tgt Ion	Ratio	Lower	Upper
264	100		
260	24.5	19.4	29.0
265	21.7	17.4	26.2





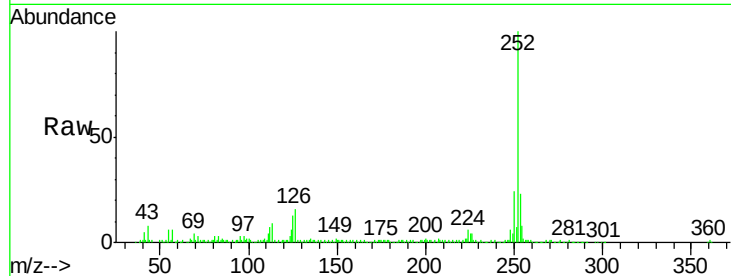
#87
Benzo(b)fluoranthene
Concen: 7.96 ng m
RT: 14.70 min Scan# 1147
Delta R.T. -0.01 min
Lab File: BF090024.D
Acq: 8 Sep 2016 15:04

Instrument :
BNA_F
ClientSampled :
BH-16-0-1FT

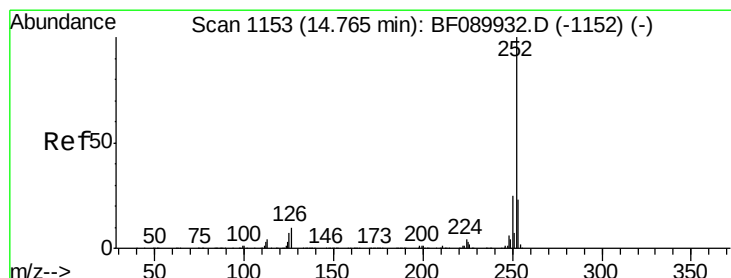
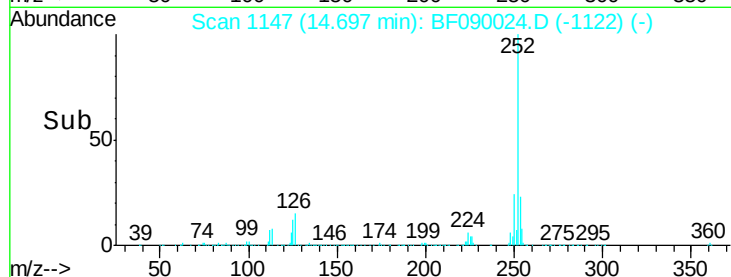
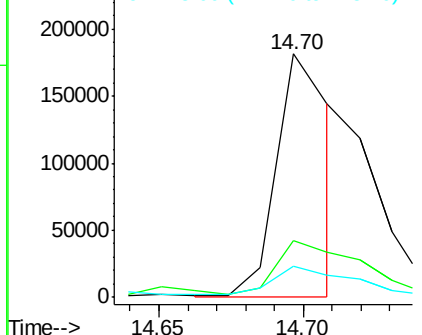
Tgt Ion	Ratio	Resp	Lower	Upper
252	100	239528		
253	23.3	18.0	27.0	
125	12.8	5.7	8.5#	

Manual Integrations
APPROVED

Sohil
9/9/2016 8:39:01 AM



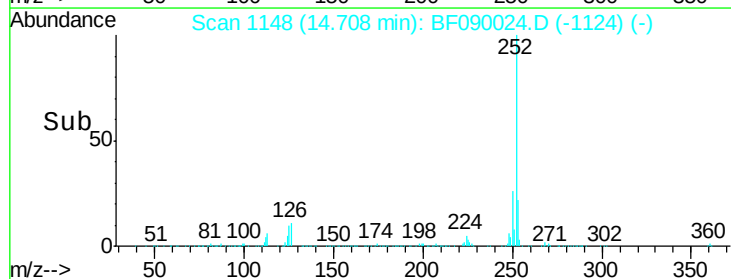
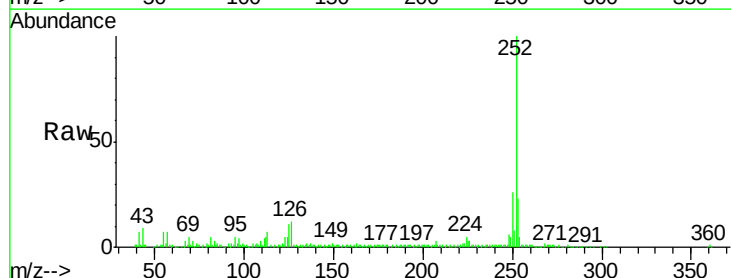
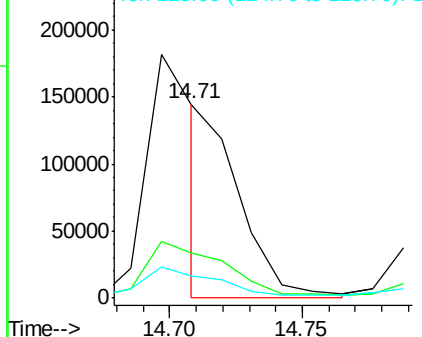
Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E

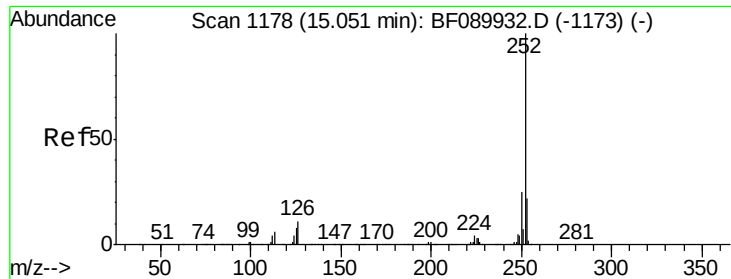


#88
Benzo(k)fluoranthene
Concen: 4.96 ng m
RT: 14.71 min Scan# 1148
Delta R.T. -0.02 min
Lab File: BF090024.D
Acq: 8 Sep 2016 15:04

Tgt Ion	Ratio	Resp	Lower	Upper
252	100	126549		
253	23.0	17.8	26.8	
125	11.4	7.3	10.9#	

Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E





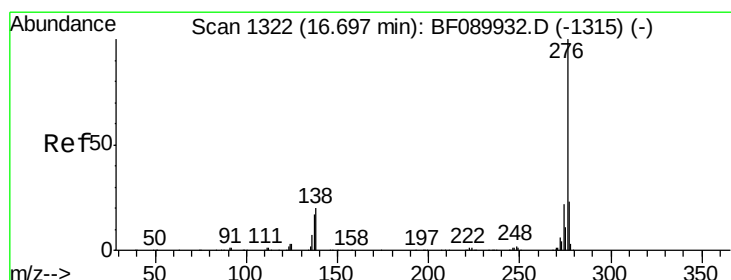
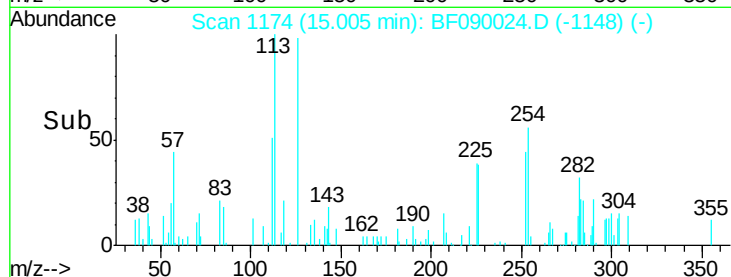
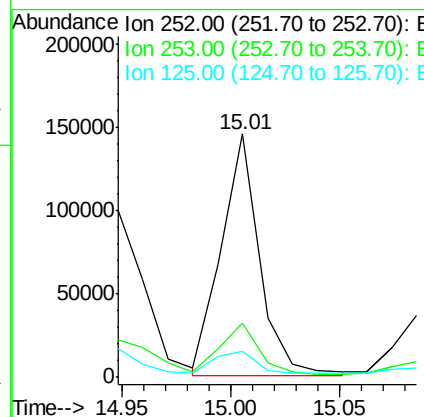
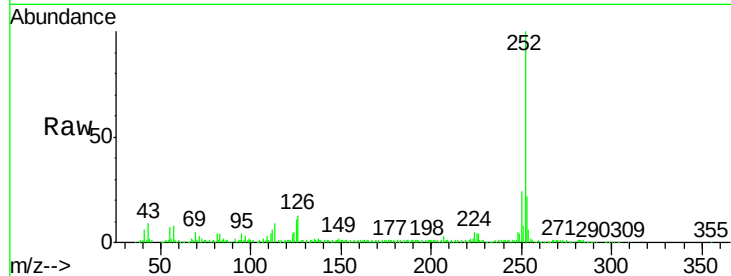
#89
Benzo(a)pyrene
Concen: 6.86 ng
RT: 15.01 min Scan# 1174
Delta R.T. 0.00 min
Lab File: BF090024.D
Acq: 8 Sep 2016 15:04

Instrument :
BNA_F
ClientSampled :
BH-16-0-1FT

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.3	17.5	26.3
125	10.7	6.3	9.5

Manual Integrations
APPROVED

Sohil
9/9/2016 8:39:01 AM



#91
Benzo(g,h,i)perylene
Concen: 4.70 ng
RT: 16.63 min Scan# 1316
Delta R.T. -0.01 min
Lab File: BF090024.D
Acq: 8 Sep 2016 15:04

Tgt Ion	Ratio	Lower	Upper
276	100		
277	24.3	19.0	28.4
138	22.7	16.4	24.6

