

Data Path : Z:\HPCHEM1\BNA F\DATA\BF092716\
 Data File : BF090266.D
 Acq On : 27 Sep 2016 21:49
 Operator : UM/SJ
 Sample : H4949-05 10X
 Misc :
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 S-3-1-LOC-3(0-5)

Manual Integrations
 APPROVED

sohil
 9/28/2016 1:53:20 PM

Quant Time: Sep 28 11:40:44 2016
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF092016.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Sep 26 15:58:38 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.48	152	107473m	20.00	ng	0.00
21) Naphthalene-d8	7.76	136	408144m	20.00	ng	-0.01
38) Acenaphthene-d10	9.50	164	209361	20.00	ng	-0.01
63) Phenanthrene-d10	10.97	188	285626	20.00	ng	-0.01
75) Chrysene-d12	13.59	240	225868	20.00	ng	-0.01
86) Perylene-d12	14.91	264	223705	20.00	ng	0.00

System Monitoring Compounds						
5) 2-Fluorophenol	5.03	112	59108	8.96	ng	0.00
7) Phenol-d6	6.12	99	85238	10.47	ng	-0.01
23) Nitrobenzene-d5	7.04	82	50844	7.22	ng	-0.02
41) 2,4,6-Tribromophenol	10.28	330	14236	7.93	ng	-0.01
44) 2-Fluorobiphenyl	8.83	172	96508	9.05	ng	-0.02
78) Terphenyl-d14	12.55	244	60739	6.83	ng	-0.01

Target Compounds					Qvalue	
31) Naphthalene	7.78	128	269256	13.85	ng	99
37) 2-Methylnaphthalene	8.47	142	62380	5.16	ng	99
48) Acenaphthylene	9.36	152	287654	16.03	ng	98
49) Dimethylphthalate	9.23	163	31551	2.37	ng	98
51) Acenaphthene	9.53	154	60181	5.65	ng	98
54) Dibenzofuran	9.70	168	116482	8.31	ng	98
57) Fluorene	10.04	166	164969	15.62	ng	99
70) Phenanthrene	10.99	178	1251318	93.68	ng	99
71) Anthracene	11.04	178	363657	25.96	ng	98
72) Carbazole	11.20	167	239161	16.15	ng	98
74) Fluoranthene	12.18	202	1718110	119.83	ng	92
77) Pvrene	12.40	202	1315282	85.10	ng	99
80) Benzo(a)anthracene	13.58	228	796450m	65.54	ng	
82) Chrysene	13.61	228	837315m	70.74	ng	
85) Indeno(1,2,3-cd)pyrene	16.06	276	417432m	43.61	ng	
87) Benzo(b)fluoranthene	14.58	252	932367m	75.27	ng	
88) Benzo(k)fluoranthene	14.58	252	451219m	38.81	ng	
89) Benzo(a)pyrene	14.87	252	683413	58.65	ng	96
90) Dibenzo(a,h)anthracene	16.07	278	123625m	13.60	ng	
91) Benzo(a,h,i)perylene	16.40	276	361873	40.66	ng	95

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

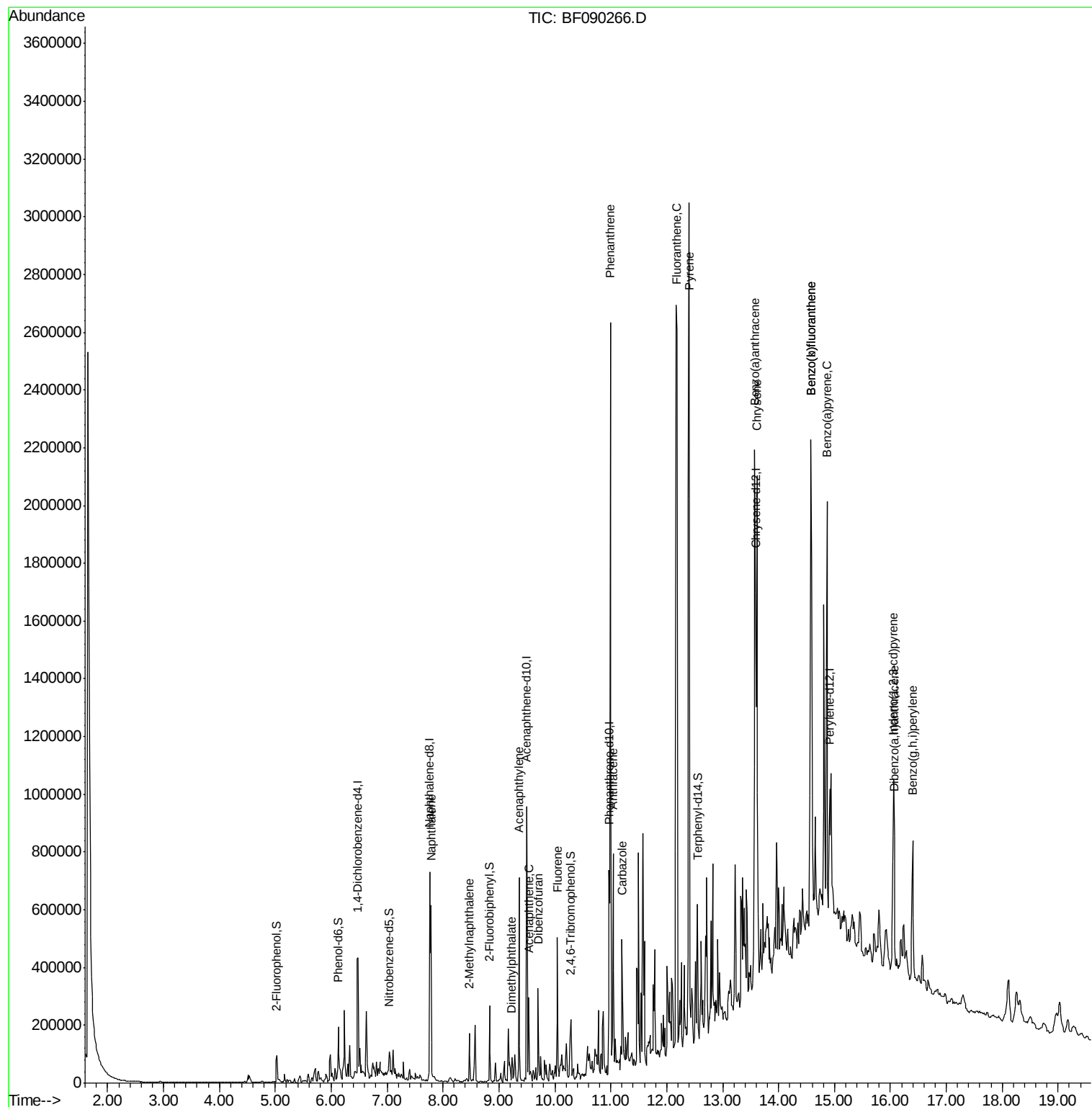
Data Path : Z:\HPCHEM1\BNA F\DATA\BF092716\
Data File : BF090266.D
Acq On : 27 Sep 2016 21:49
Operator : UM/SJ
Sample : H4949-05 10X
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
S-3-1-LOC-3(0-5)

Manual Integrations
APPROVED

sohil
9/28/2016 1:53:20 PM

Quant Time: Sep 28 11:40:44 2016
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF092016.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Sep 26 15:58:38 2016
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng/mL

RT: 6.48 min Scan# 428

Delta R.T. -0.00 min

Lab File: BF090266.D

Acq: 27 Sep 2016 21:49

Instrument :

BNA_F

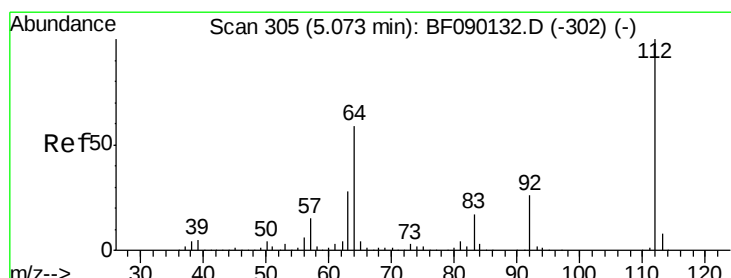
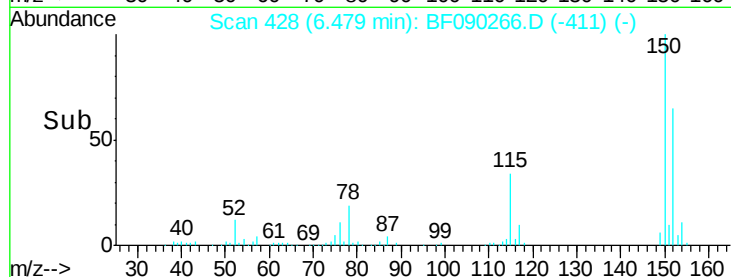
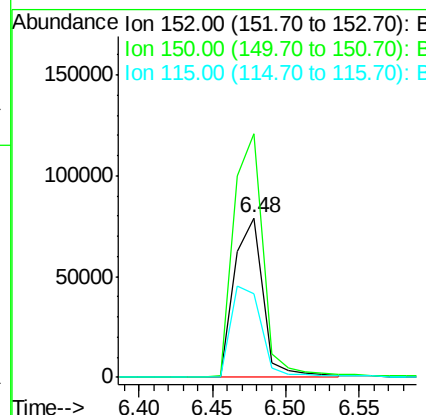
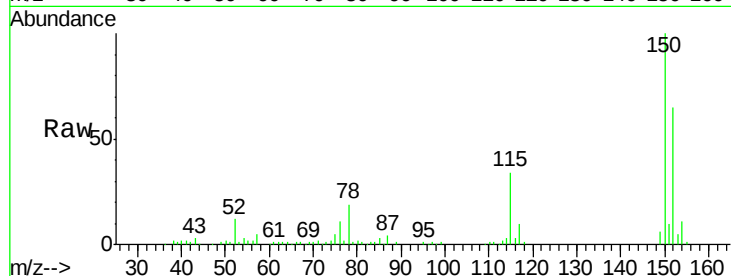
ClientSampleId :

S-3-1-LOC-3(0-5)

Tot Ion:	152	Resp:	107473
Ion Ratio	Lower	Upper	
152	100		
150	152.7	128.9	193.3
115	52.6	55.5	83.3

Manual Integrations
APPROVED

sohil
9/28/2016 1:53:20 PM



#5

2-Fluorophenol

Concen: 8.96 ng

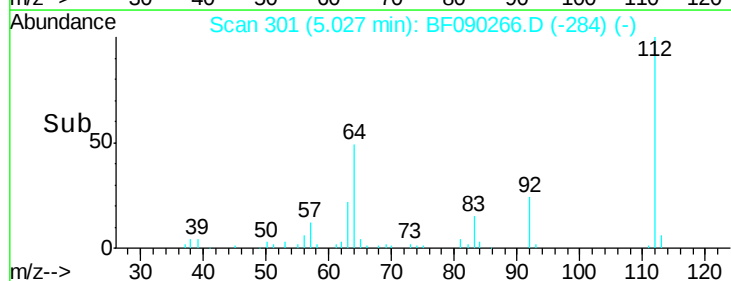
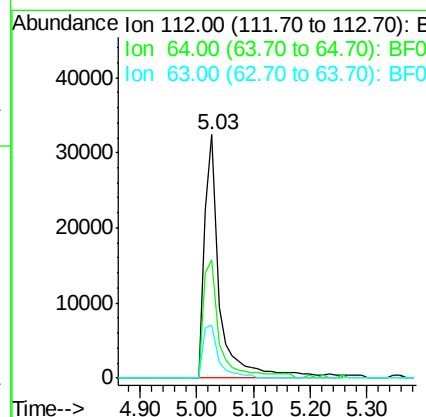
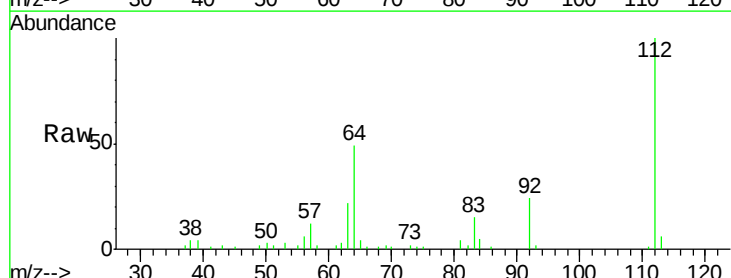
RT: 5.03 min Scan# 301

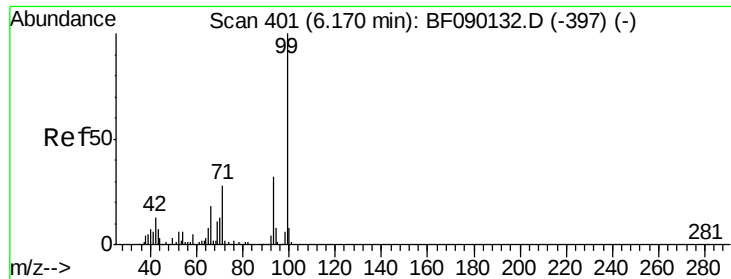
Delta R.T. -0.00 min

Lab File: BF090266.D

Acq: 27 Sep 2016 21:49

Tgt Ion:	112	Resp:	59108
Ion Ratio	Lower	Upper	
112	100		
64	48.7	39.8	59.6
63	21.8	18.9	28.3





#7

Phenol-d6

Concen: 10.47 ng

RT: 6.12 min Scan# 397

Delta R.T. -0.01 min

Lab File: BF090266.D

Acq: 27 Sep 2016 21:49

Instrument :

BNA_F

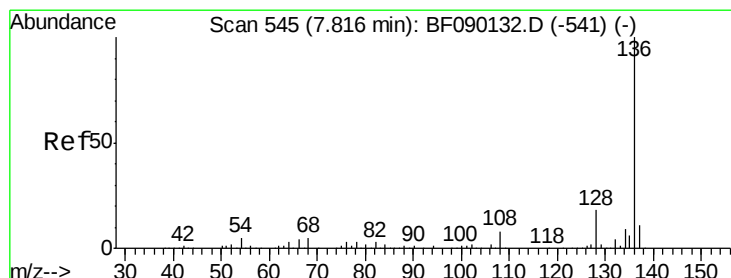
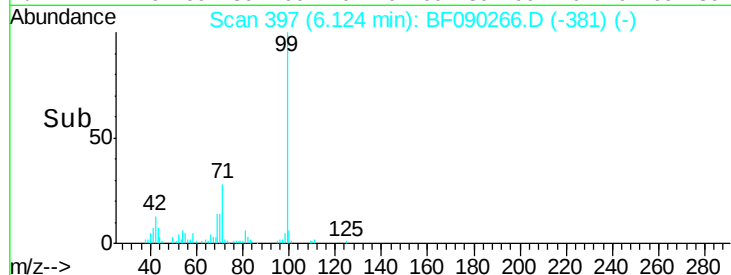
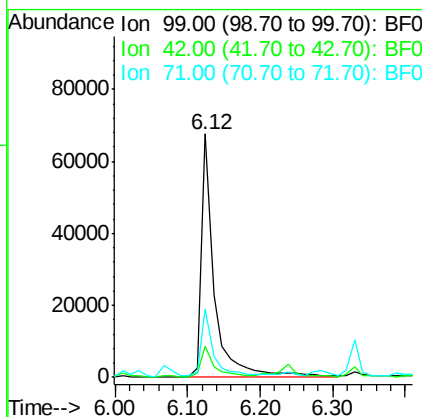
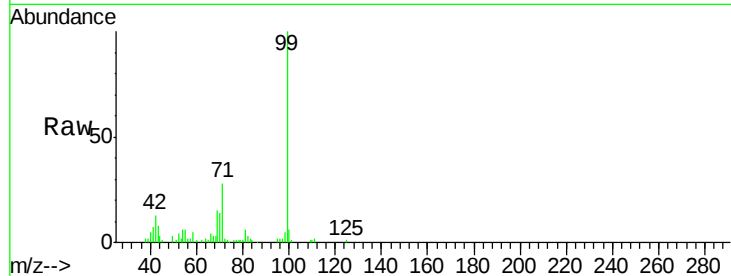
ClientSampleId :

S-3-1-LOC-3(0-5)

Tot Ion:	99	Resp:	85238
Ion	Ratio	Lower	Upper
99	100		
42	12.9	10.6	15.8
71	28.1	23.0	34.6

Manual Integrations
APPROVED

sohil
9/28/2016 1:53:20 PM



#21

Naphthalene-d8

Concen: 20.00 ng m

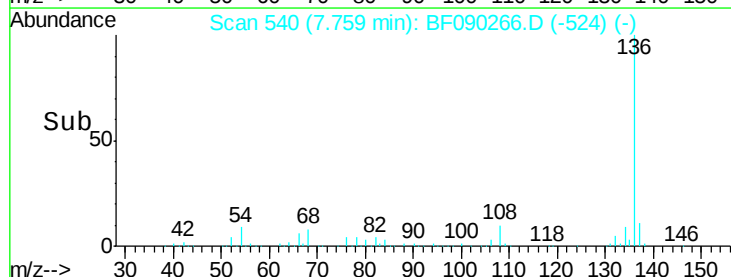
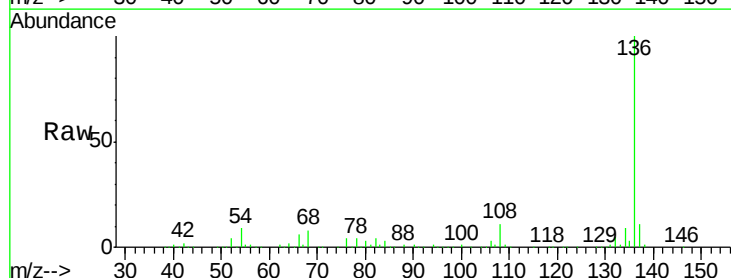
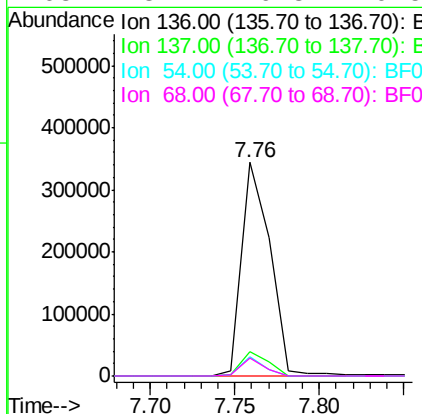
RT: 7.76 min Scan# 540

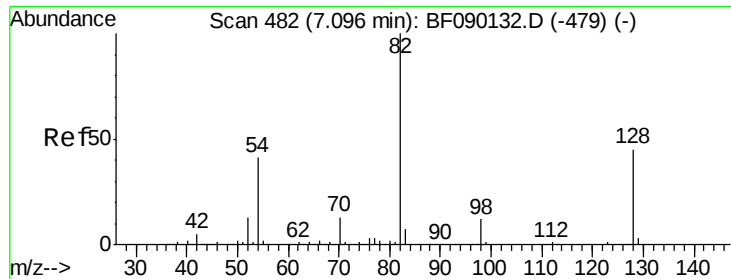
Delta R.T. -0.01 min

Lab File: BF090266.D

Acq: 27 Sep 2016 21:49

Tgt Ion:	136	Resp:	408144
Ion	Ratio	Lower	Upper
136	100		
137	11.4	9.0	13.4
54	9.0	6.4	9.6
68	8.1	6.3	9.5





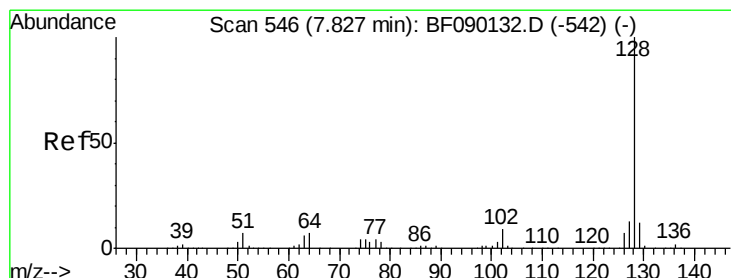
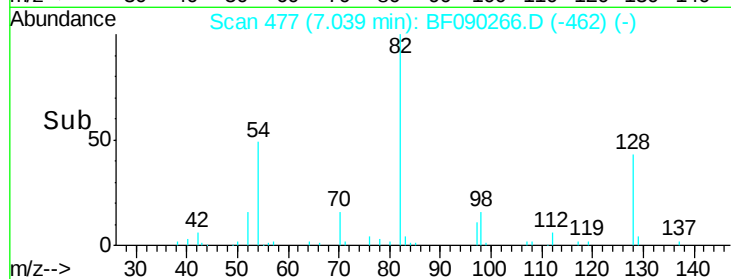
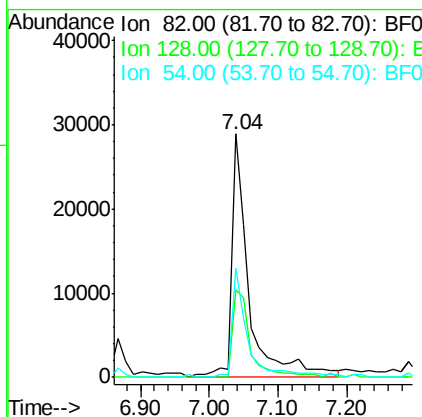
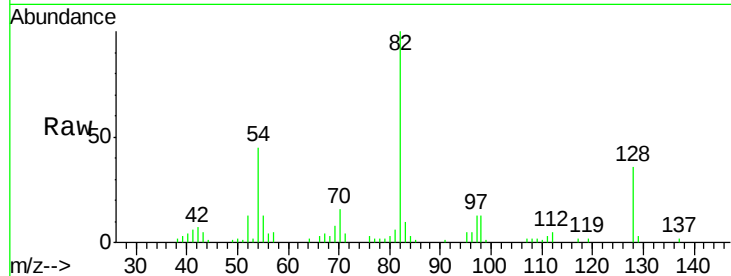
#23
 Nitrobenzene-d5
 Concen: 7.22 ng
 RT: 7.04 min Scan# 477
 Delta R.T. -0.02 min
 Lab File: BF090266.D
 Acq: 27 Sep 2016 21:49

Instrument :
 BNA_F
 ClientSampleId :
 S-3-1-LOC-3(0-5)

Tot Ion:	82	Resp:	50844
Ion Ratio	Lower	Upper	
82	100		
128	36.0	37.5	56.3#
54	44.7	31.9	47.9

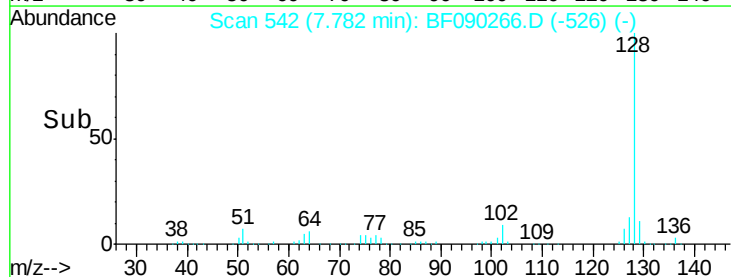
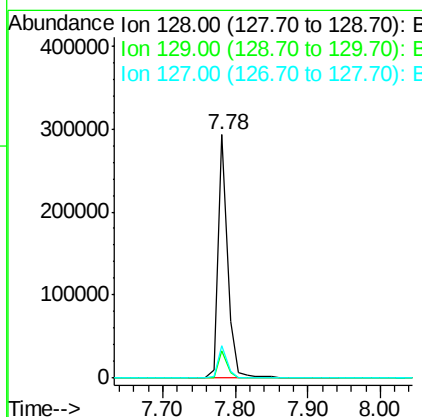
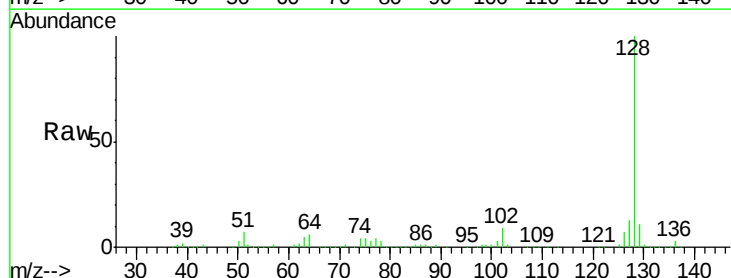
Manual Integrations
 APPROVED

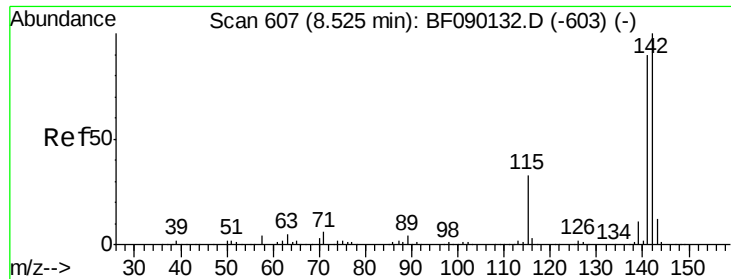
sohil
 9/28/2016 1:53:20 PM



#31
 Naphthalene
 Concen: 13.85 ng
 RT: 7.78 min Scan# 542
 Delta R.T. -0.01 min
 Lab File: BF090266.D
 Acq: 27 Sep 2016 21:49

Tgt Ion:	128	Resp:	269256
Ion Ratio	Lower	Upper	
128	100		
129	11.4	9.3	13.9
127	13.1	10.8	16.2





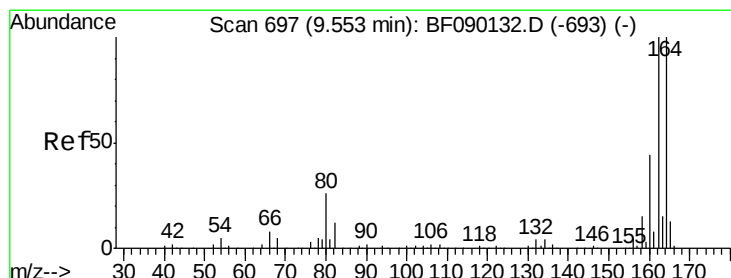
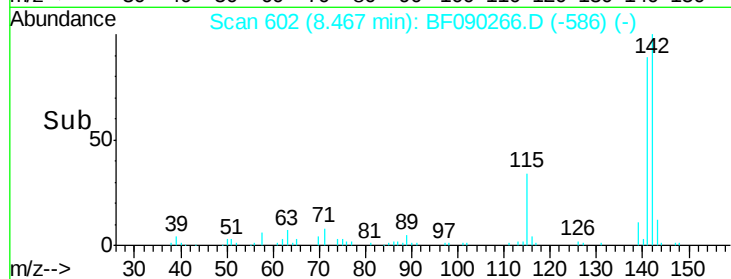
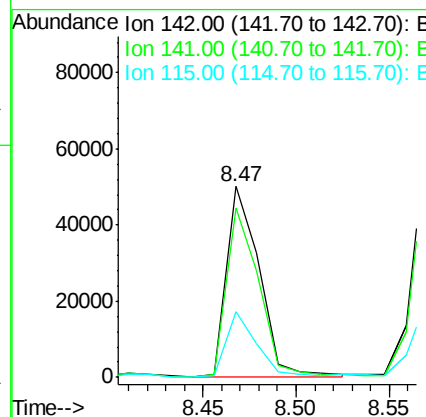
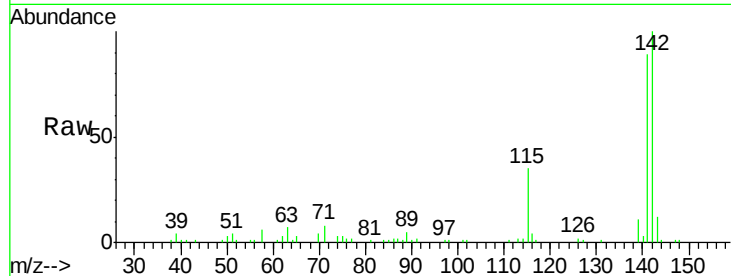
#37
2-Methylnaphthalene
Concen: 5.16 ng
RT: 8.47 min Scan# 602
Delta R.T. -0.01 min
Lab File: BF090266.D
Acq: 27 Sep 2016 21:49

Instrument :
BNA_F
ClientSampled :
S-3-1-LOC-3(0-5)

Tot Ion	Ratio	Lower	Upper
142	100		
141	88.6	71.4	107.2
115	34.6	28.3	42.5

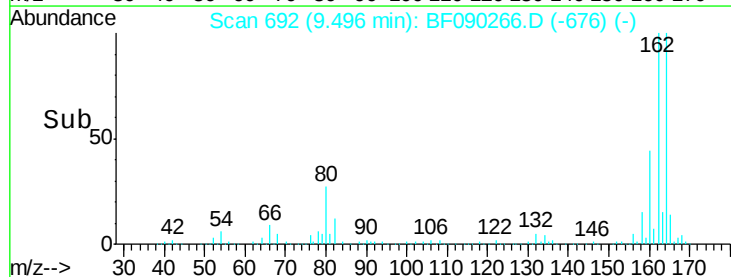
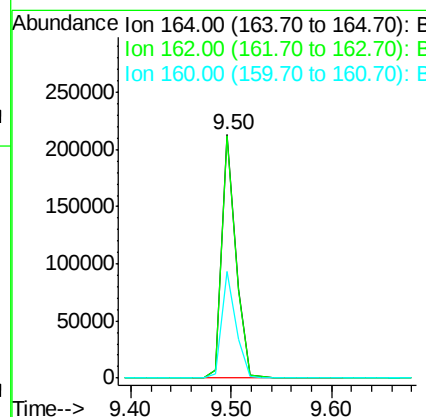
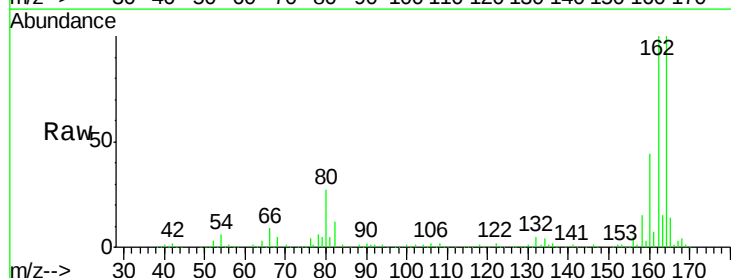
Manual Integrations
APPROVED

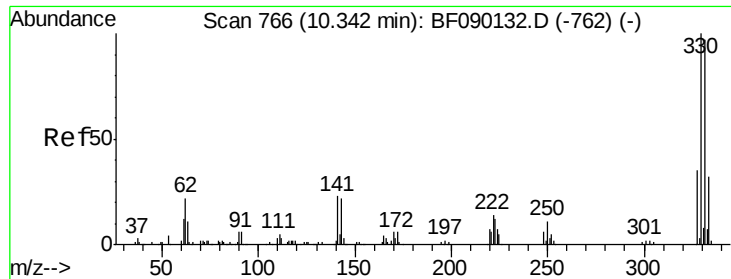
sohil
9/28/2016 1:53:20 PM



#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 9.50 min Scan# 692
Delta R.T. -0.01 min
Lab File: BF090266.D
Acq: 27 Sep 2016 21:49

Tgt Ion	Ratio	Lower	Upper
164	100		
162	99.5	81.4	122.2
160	43.6	36.6	54.8





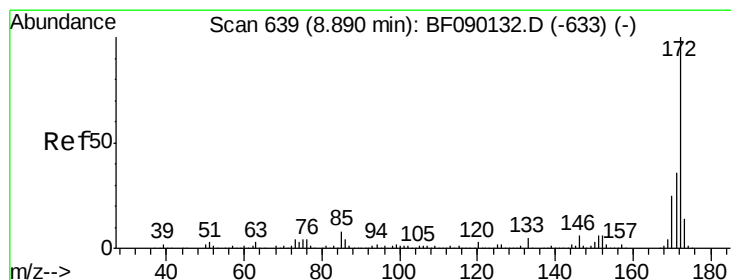
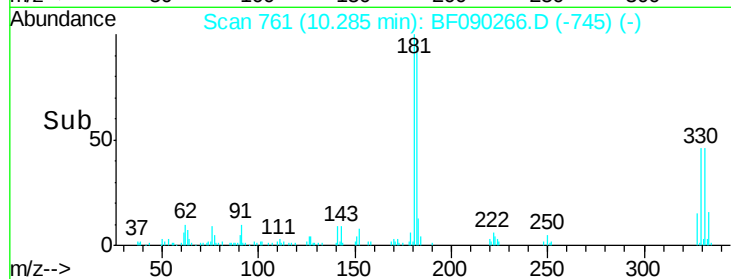
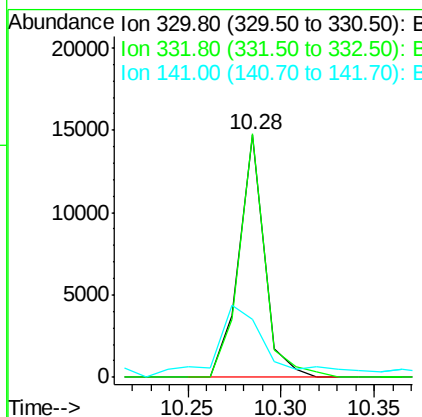
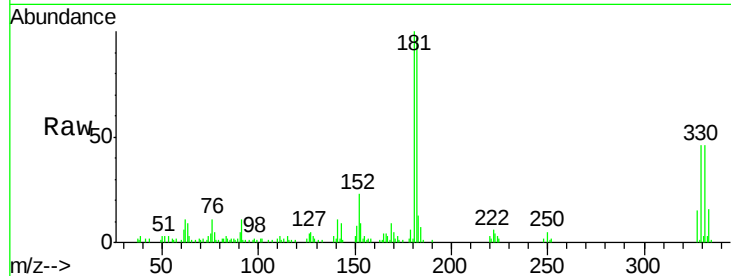
#41
 2,4,6-Tribromophenol
 Concen: 7.93 ng
 RT: 10.28 min Scan# 761
 Delta R.T. -0.01 min
 Lab File: BF090266.D
 Acq: 27 Sep 2016 21:49

Instrument :
 BNA_F
 ClientSampleId :
 S-3-1-LOC-3(0-5)

Tot Ion	Ratio	Resp	Lower	Upper
330	100	14236		
332	100.8	78.1	117.1	
141	66.8	23.9	35.9	

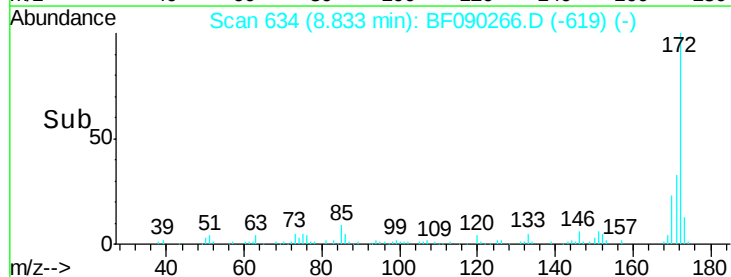
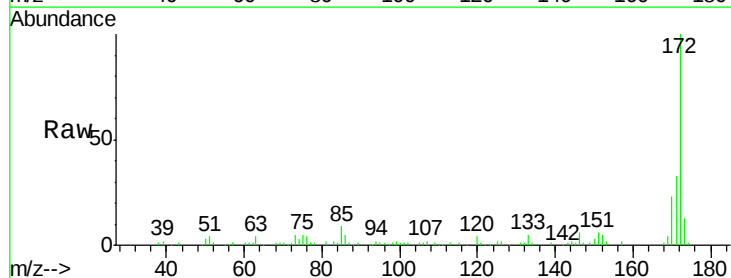
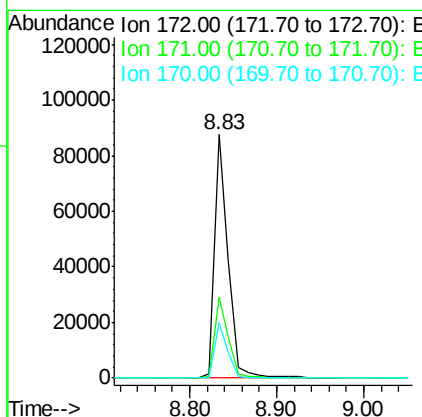
Manual Integrations
 APPROVED

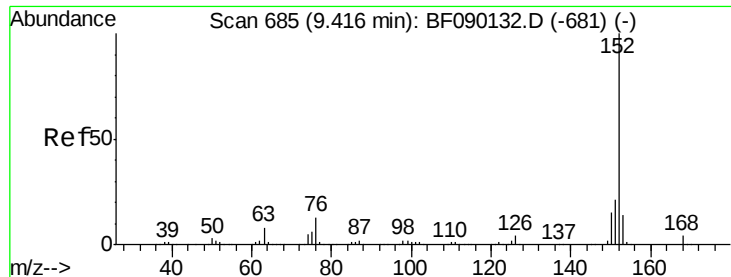
sohil
 9/28/2016 1:53:20 PM



#44
 2-Fluorobiphenyl
 Concen: 9.05 ng
 RT: 8.83 min Scan# 634
 Delta R.T. -0.02 min
 Lab File: BF090266.D
 Acq: 27 Sep 2016 21:49

Tgt Ion	Ratio	Resp	Lower	Upper
172	100	96508		
171	33.4	29.2	43.8	
170	22.7	19.8	29.8	





#48

Acenaphthylene

Concen: 16.03 ng

RT: 9.36 min Scan# 680

Delta R.T. -0.01 min

Lab File: BF090266.D

Acq: 27 Sep 2016 21:49

Instrument :

BNA_F

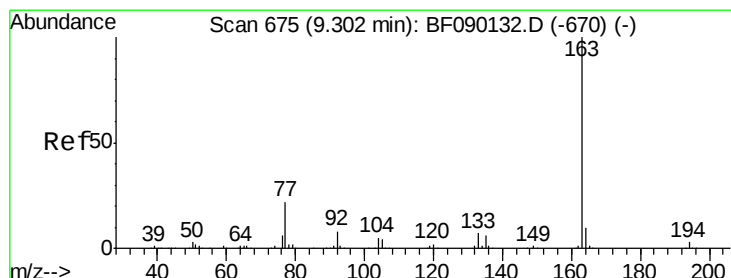
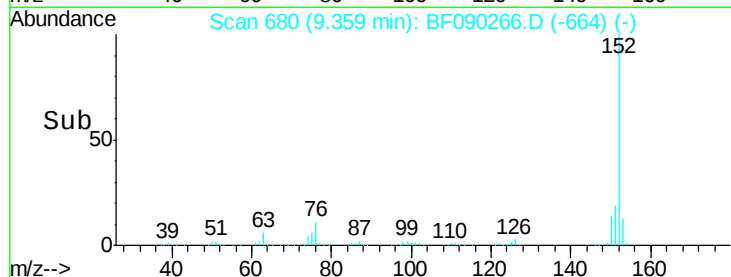
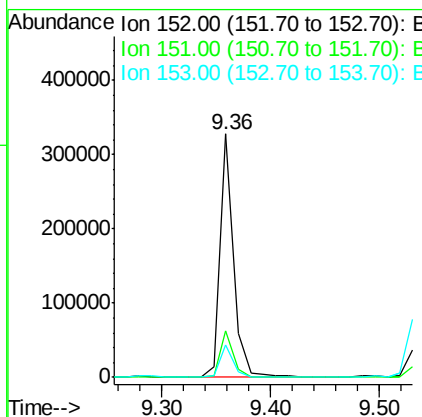
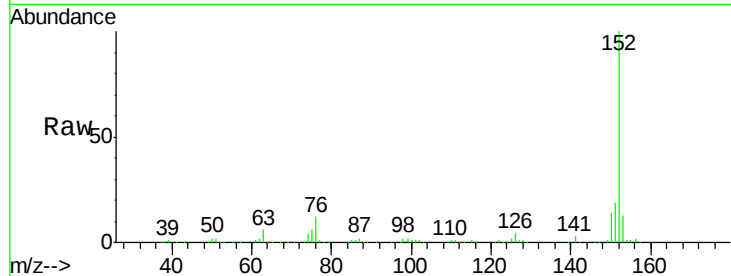
ClientSampleId :

S-3-1-LOC-3(0-5)

Tot Ion:	152	Resp:	287654
Ion Ratio	Lower	Upper	
152	100		
151	19.3	16.5	24.7
153	13.4	10.6	15.8

Manual Integrations
APPROVED

sohil
9/28/2016 1:53:20 PM



#49

Dimethylphthalate

Concen: 2.37 ng

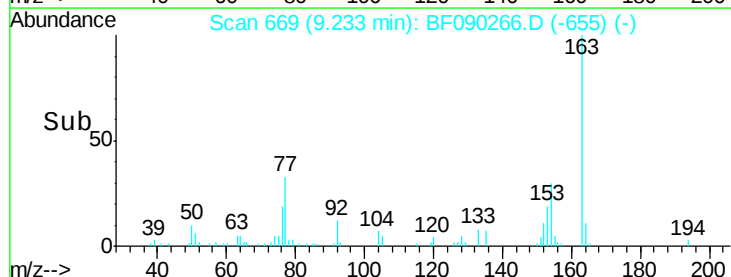
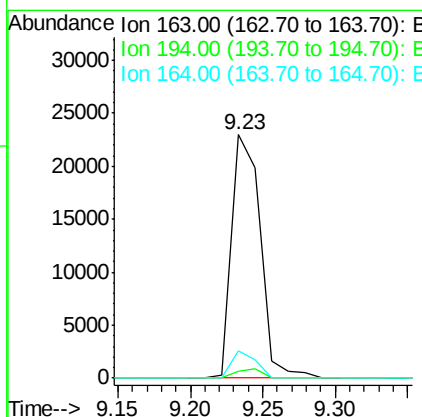
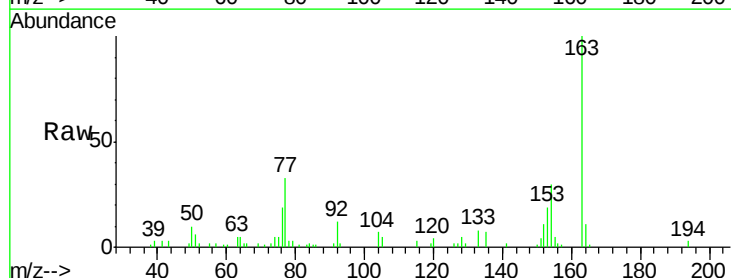
RT: 9.23 min Scan# 669

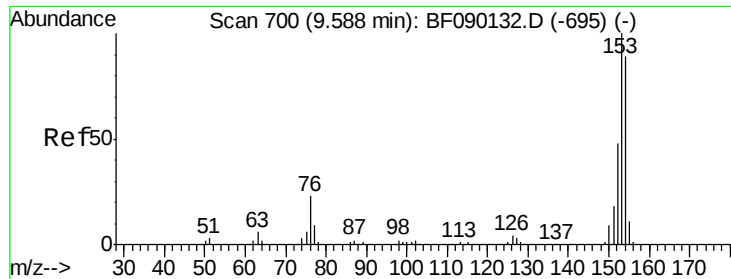
Delta R.T. -0.03 min

Lab File: BF090266.D

Acq: 27 Sep 2016 21:49

Tgt Ion:	163	Resp:	31551
Ion Ratio	Lower	Upper	
163	100		
194	2.9	2.8	4.2
164	11.0	8.1	12.1





#51

Acenaphthene

Concen: 5.65 ng

RT: 9.53 min Scan# 695

Delta R.T. -0.01 min

Lab File: BF090266.D

Acq: 27 Sep 2016 21:49

Instrument :

BNA_F

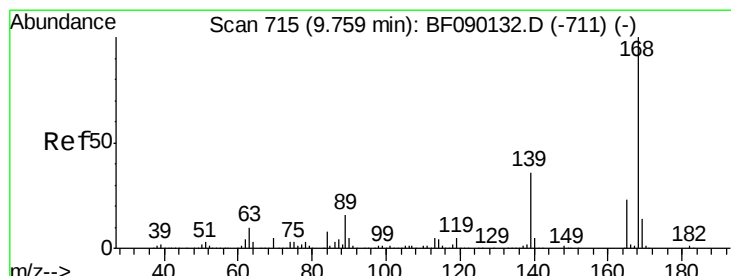
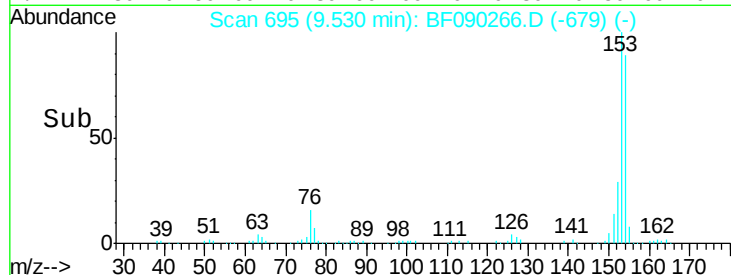
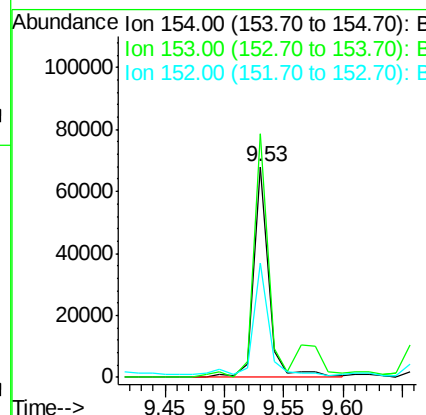
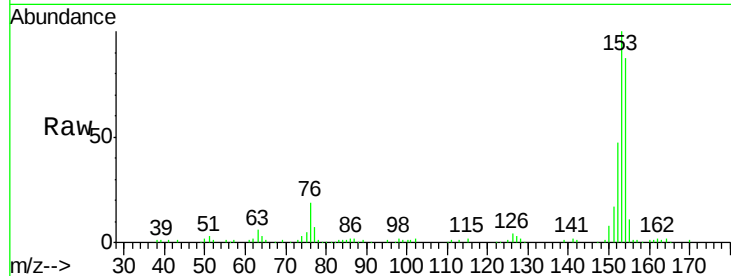
ClientSampleId :

S-3-1-LOC-3(0-5)

Tot Ion:	154	Resp:	60181
Ion Ratio	Lower	Upper	
154	100		
153	115.5	90.8	136.2
152	53.9	44.2	66.4

Manual Integrations
APPROVED

sohil
9/28/2016 1:53:20 PM



#54

Dibenzofuran

Concen: 8.31 ng

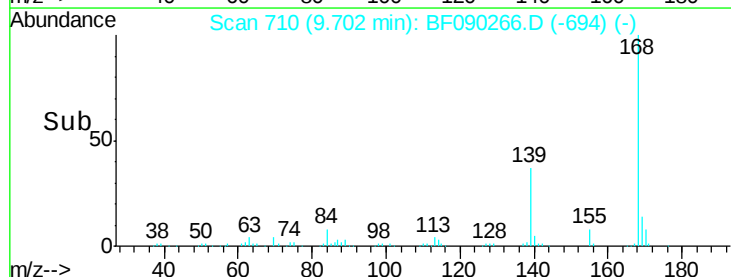
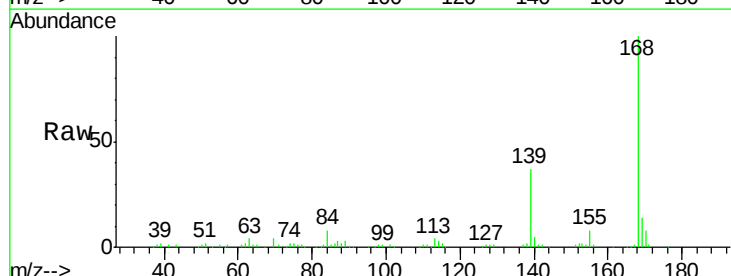
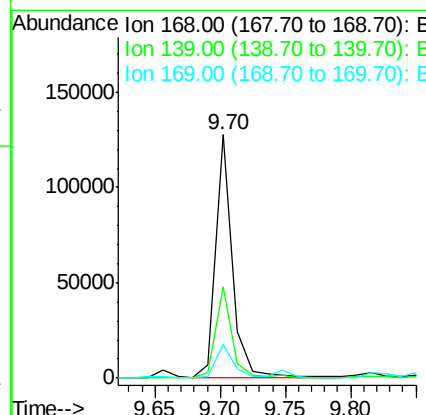
RT: 9.70 min Scan# 710

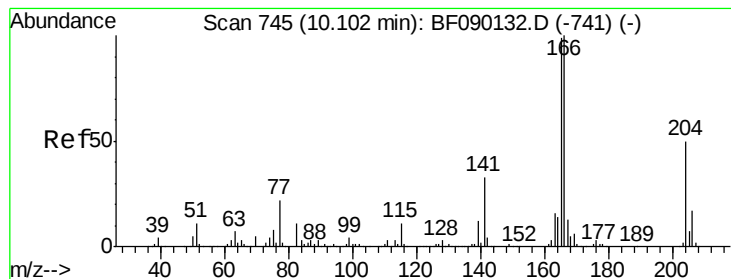
Delta R.T. -0.01 min

Lab File: BF090266.D

Acq: 27 Sep 2016 21:49

Tgt Ion:	168	Resp:	116482
Ion Ratio	Lower	Upper	
168	100		
139	37.3	28.8	43.2
169	14.1	10.7	16.1





#57

Fluorene

Concen: 15.62 ng

RT: 10.04 min Scan# 740

Delta R.T. -0.01 min

Lab File: BF090266.D

Acq: 27 Sep 2016 21:49

Instrument :

BNA_F

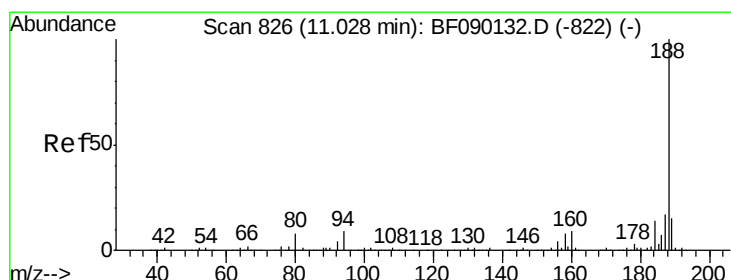
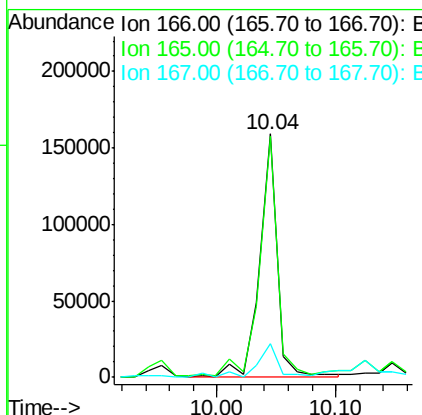
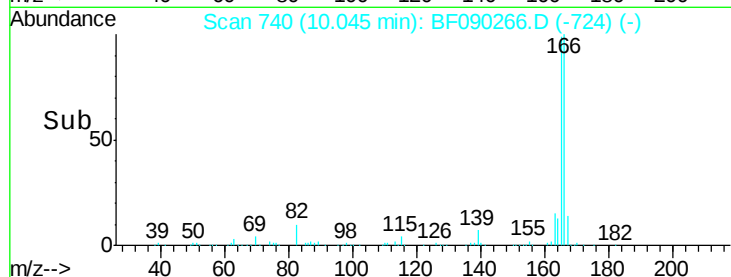
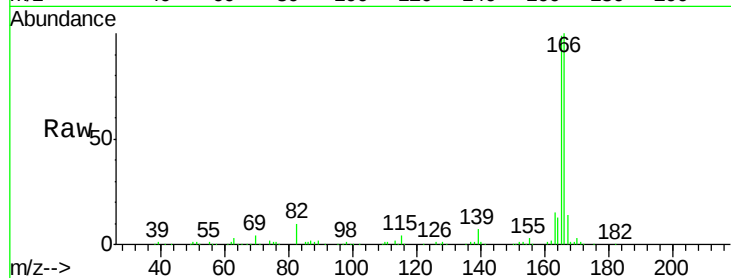
ClientSampleId :

S-3-1-LOC-3(0-5)

Tot Ion:	166	Resp:	164969
Ion Ratio	Lower	Upper	
166	100		
165	99.2	78.5	117.7
167	14.1	11.2	16.8

Manual Integrations
APPROVED

sohil
9/28/2016 1:53:20 PM



#63

Phenanthrene-d10

Concen: 20.00 ng

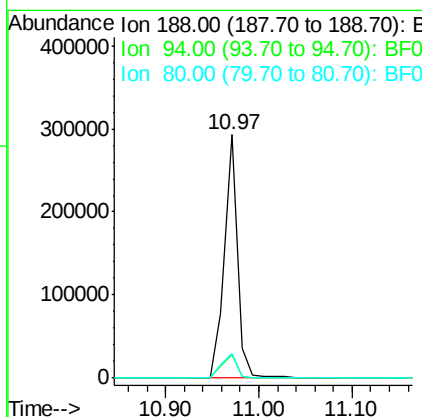
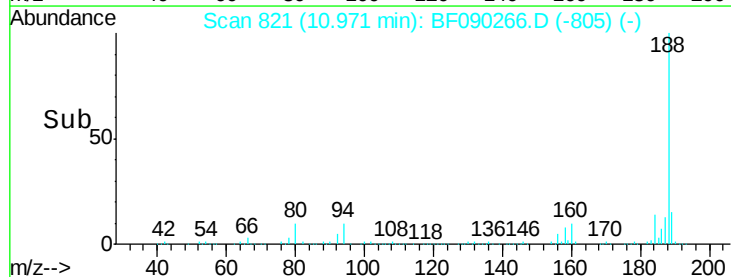
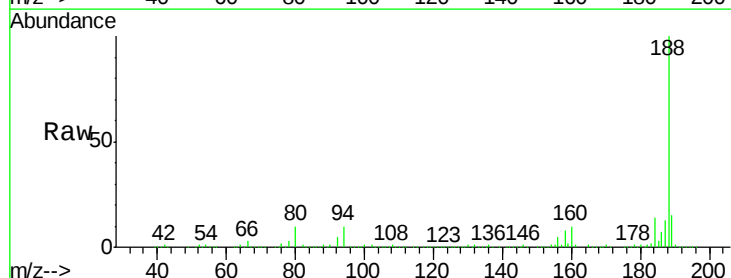
RT: 10.97 min Scan# 821

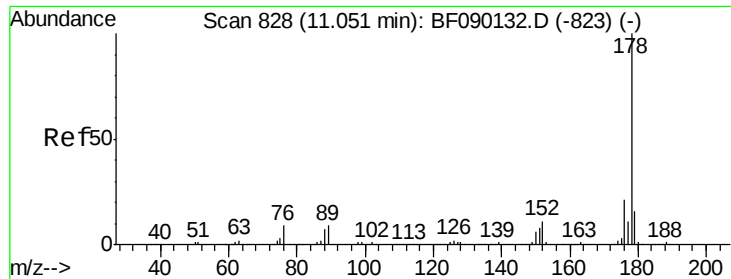
Delta R.T. -0.01 min

Lab File: BF090266.D

Acq: 27 Sep 2016 21:49

Tgt Ion:	188	Resp:	285626
Ion Ratio	Lower	Upper	
188	100		
94	9.6	10.5	15.7#
80	10.1	11.2	16.8#





#70

Phenanthrene

Concen: 93.68 ng

RT: 10.99 min Scan# 823

Delta R.T. -0.01 min

Lab File: BF090266.D

Acq: 27 Sep 2016 21:49

Instrument :

BNA_F

ClientSampleId :

S-3-1-LOC-3(0-5)

Tot Ion:178 Resp: 1251318

Ion Ratio Lower Upper

178 100

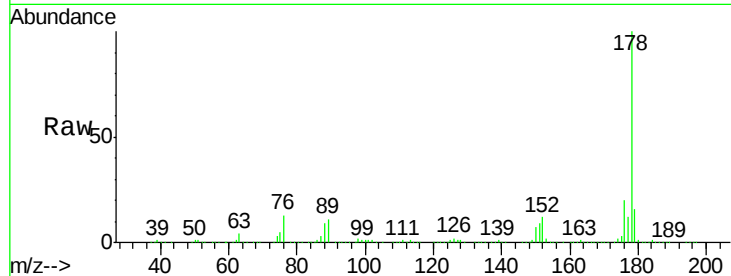
176 20.3 15.9 23.9

179 16.2 12.9 19.3

Manual Integrations
APPROVED

sohil

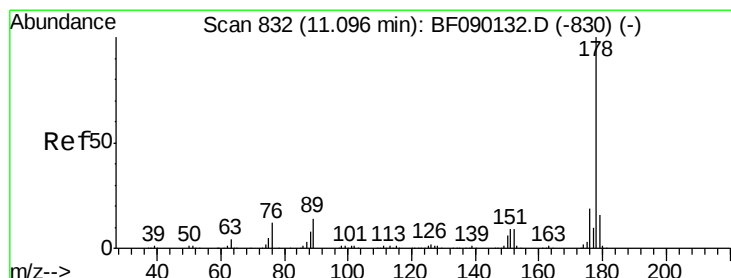
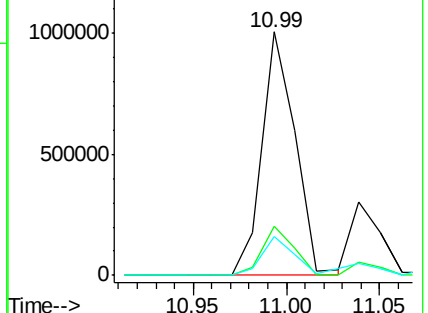
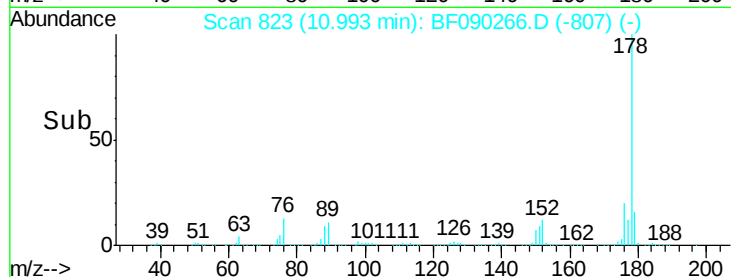
9/28/2016 1:53:20 PM



Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#71

Anthracene

Concen: 25.96 ng

RT: 11.04 min Scan# 827

Delta R.T. -0.02 min

Lab File: BF090266.D

Acq: 27 Sep 2016 21:49

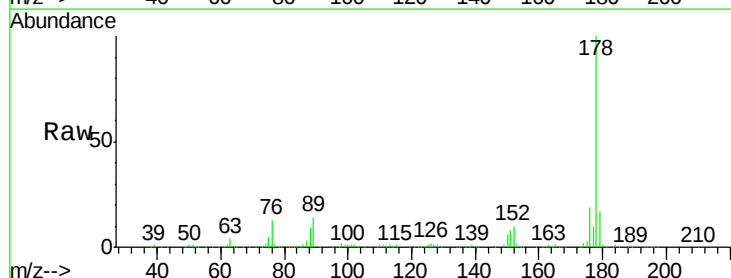
Tgt Ion:178 Resp: 363657

Ion Ratio Lower Upper

178 100

176 18.8 15.8 23.6

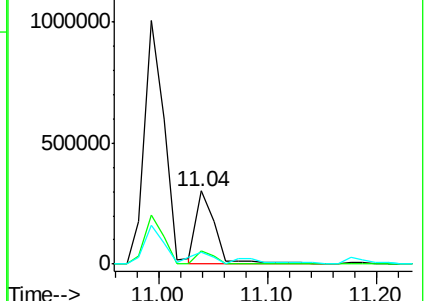
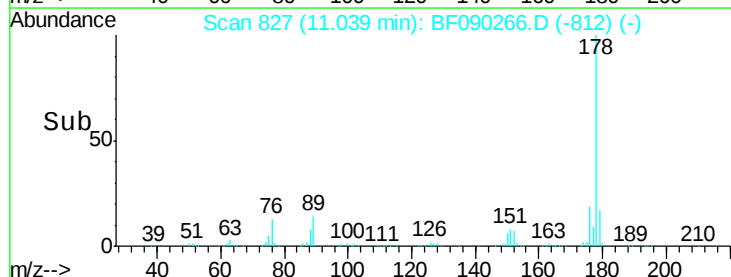
179 16.8 12.6 19.0

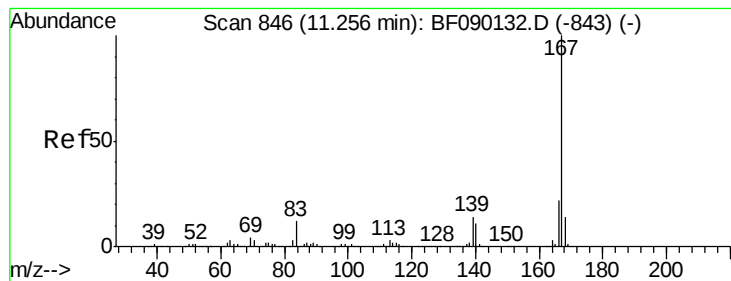


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





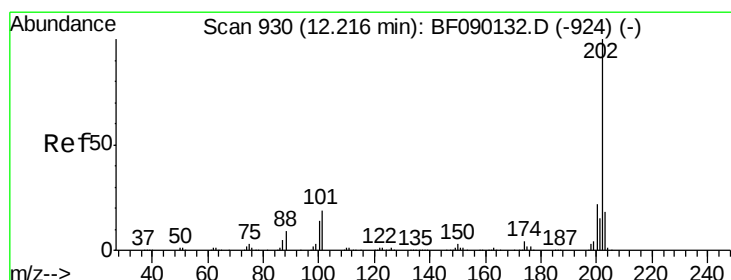
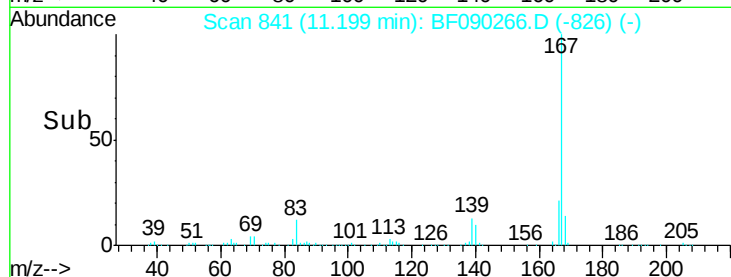
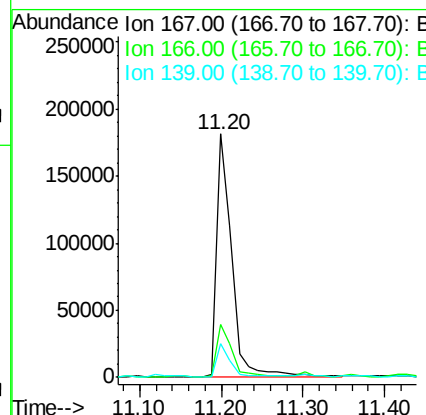
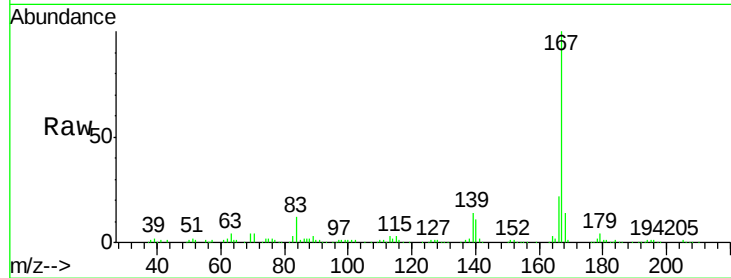
#72
 Carbazole
 Concen: 16.15 ng
 RT: 11.20 min Scan# 841
 Delta R.T. -0.02 min
 Lab File: BF090266.D
 Acq: 27 Sep 2016 21:49

Instrument :
 BNA_F
 ClientSampleId :
 S-3-1-LOC-3(0-5)

Tot Ion	Ratio	Lower	Upper
167	100		
166	21.8	18.0	27.0
139	14.1	10.4	15.6

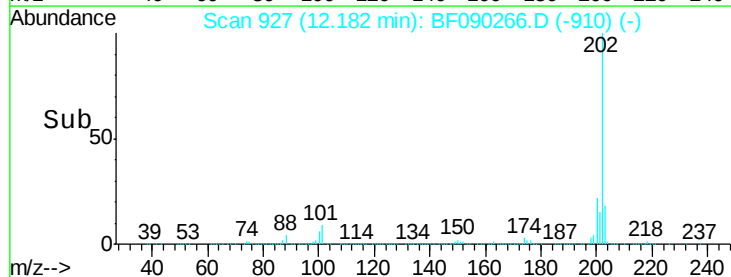
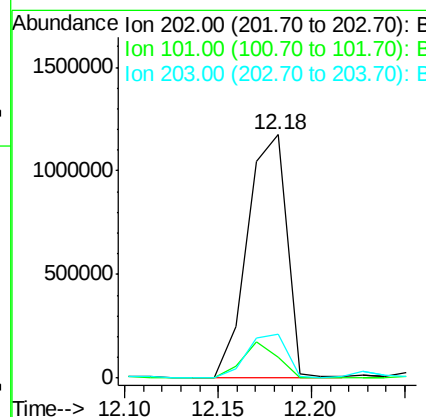
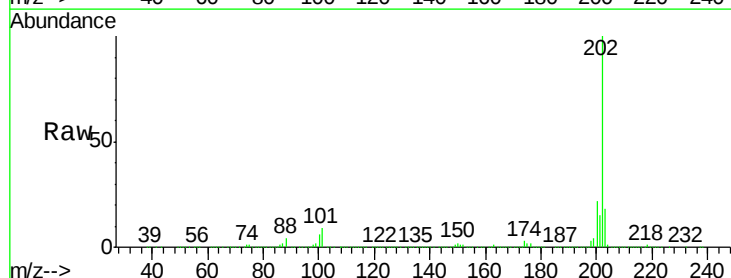
Manual Integrations
 APPROVED

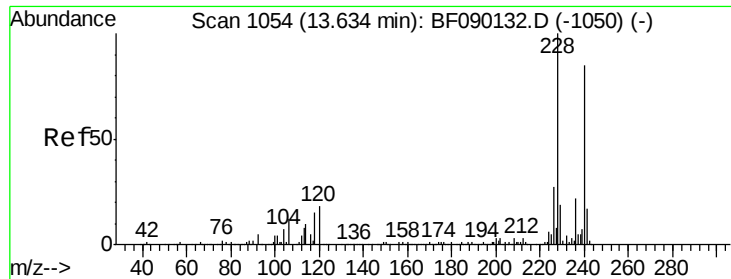
sohil
 9/28/2016 1:53:20 PM



#74
 Fluoranthene
 Concen: 119.83 ng
 RT: 12.18 min Scan# 927
 Delta R.T. -0.00 min
 Lab File: BF090266.D
 Acq: 27 Sep 2016 21:49

Tgt Ion	Ratio	Lower	Upper
202	100		
101	8.7	0.0	36.1
203	18.0	0.0	38.2





#75

Chrysene-d12

Concen: 20.00 ng

RT: 13.59 min Scan# 1050

Delta R.T. -0.01 min

Lab File: BF090266.D

Acq: 27 Sep 2016 21:49

Instrument :

BNA_F

ClientSampleId :

S-3-1-LOC-3(0-5)

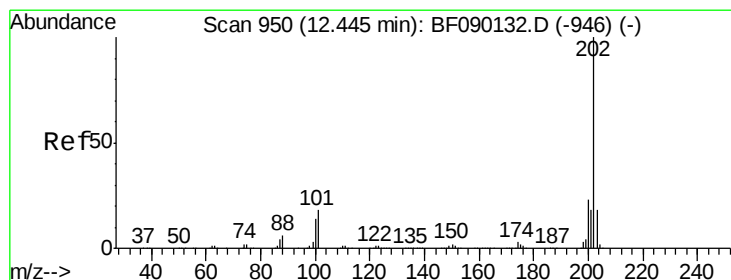
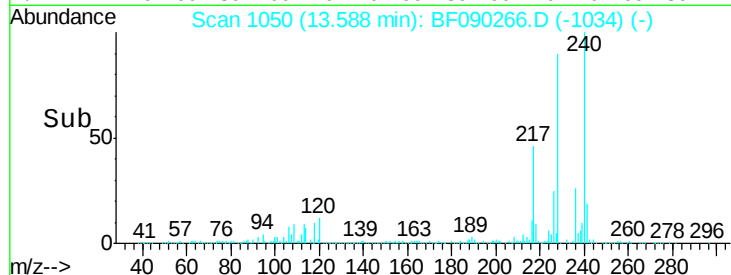
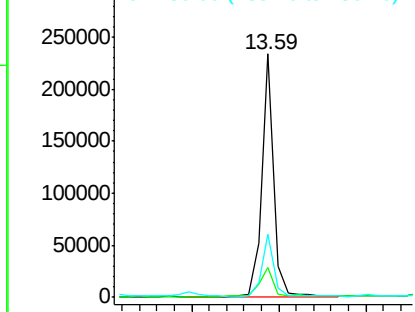
Tot Ion:	240	Resp:	225868
Ion Ratio	Lower	Upper	
240	100		
120	12.5	10.6	16.0
236	26.2	21.6	32.4

Manual Integrations
APPROVED

sohil
9/28/2016 1:53:20 PM



Abundance Ion 240.00 (239.70 to 240.70): E
Ion 120.00 (119.70 to 120.70): E
Ion 236.00 (235.70 to 236.70): E



#77

Pyrene

Concen: 85.10 ng

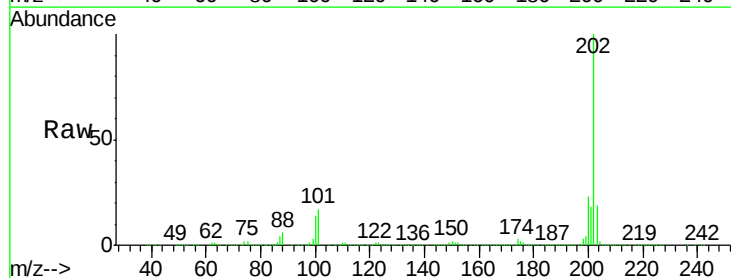
RT: 12.40 min Scan# 946

Delta R.T. -0.00 min

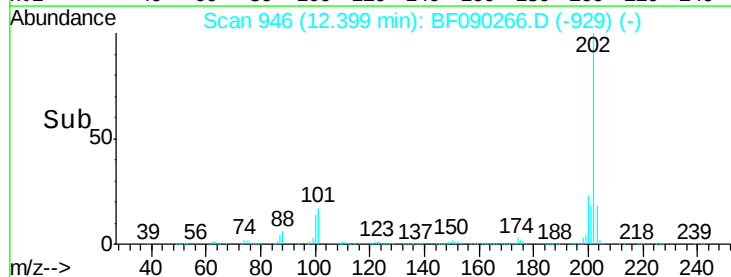
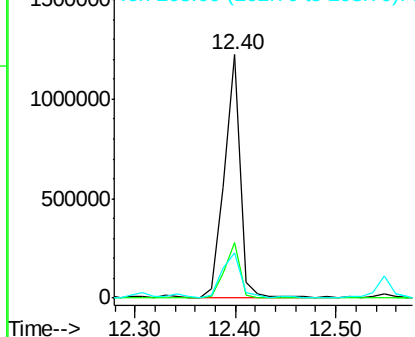
Lab File: BF090266.D

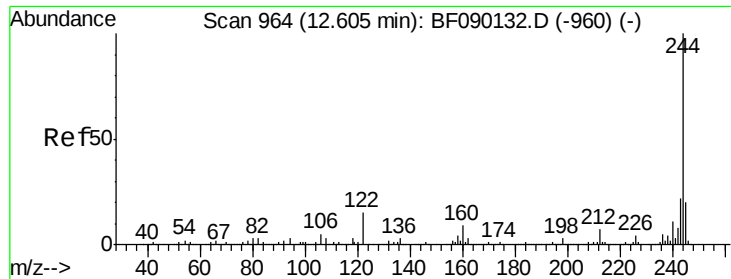
Acq: 27 Sep 2016 21:49

Tgt Ion:	202	Resp:	1315282
Ion Ratio	Lower	Upper	
202	100		
200	22.8	17.9	26.9
203	18.6	14.2	21.4



Abundance Ion 202.00 (201.70 to 202.70): E
Ion 200.00 (199.70 to 200.70): E
Ion 203.00 (202.70 to 203.70): E





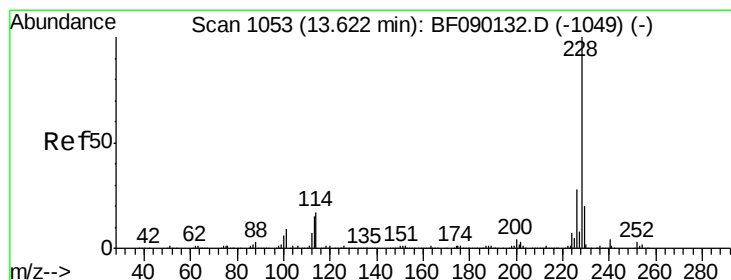
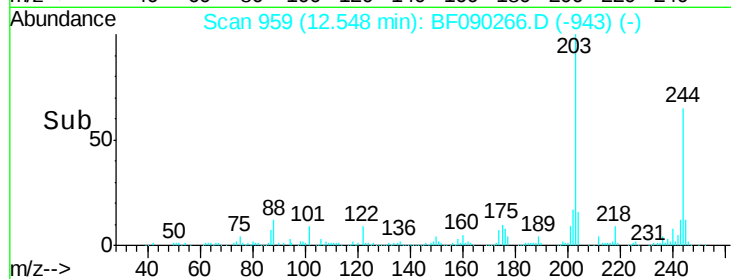
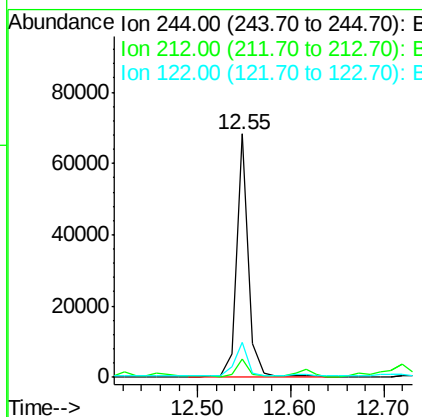
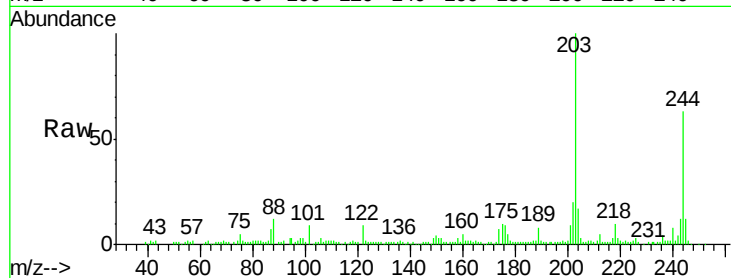
#78
 Terphenyl-d14
 Concen: 6.83 ng
 RT: 12.55 min Scan# 959
 Delta R.T. -0.01 min
 Lab File: BF090266.D
 Acq: 27 Sep 2016 21:49

Instrument :
 BNA_F
 ClientSampleId :
 S-3-1-LOC-3(0-5)

Tot Ion	Ratio	Lower	Upper
244	100		
212	7.4	5.8	8.8
122	14.6	9.4	14.0

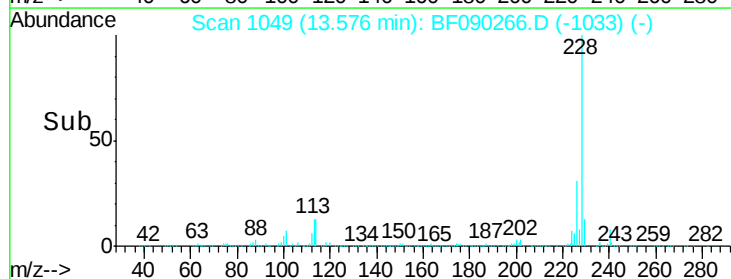
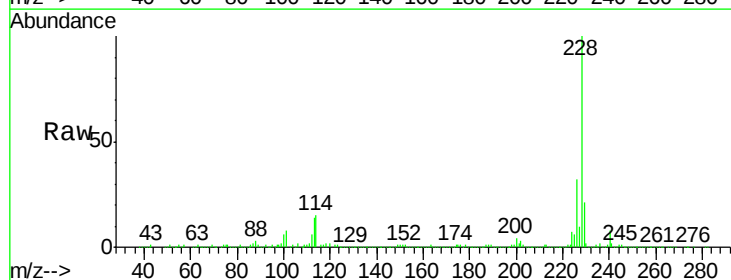
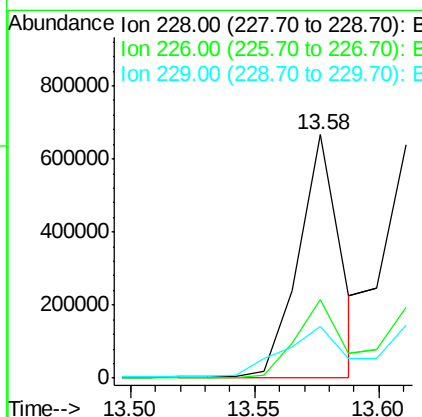
Manual Integrations
 APPROVED

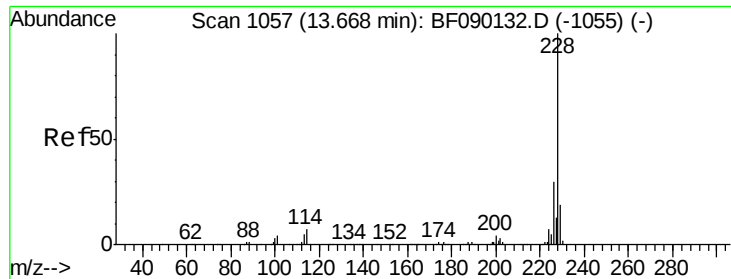
sohil
 9/28/2016 1:53:20 PM



#80
 Benzo(a)anthracene
 Concen: 65.54 ng m
 RT: 13.58 min Scan# 1049
 Delta R.T. -0.01 min
 Lab File: BF090266.D
 Acq: 27 Sep 2016 21:49

Tgt Ion	Ratio	Lower	Upper
228	100		
226	32.2	22.0	33.0
229	21.2	16.2	24.2





#82

Chrysene

Concen: 70.74 ng/mL

RT: 13.61 min Scan# 1052

Delta R.T. -0.01 min

Lab File: BF090266.D

Acq: 27 Sep 2016 21:49

Instrument :

BNA_F

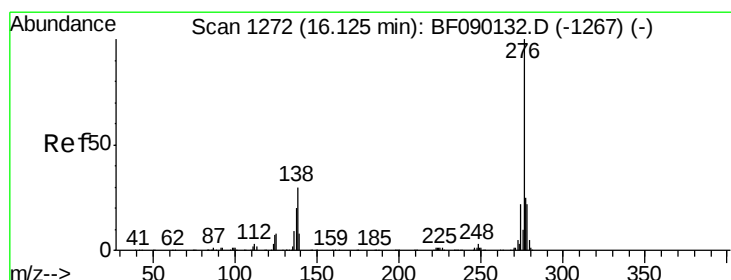
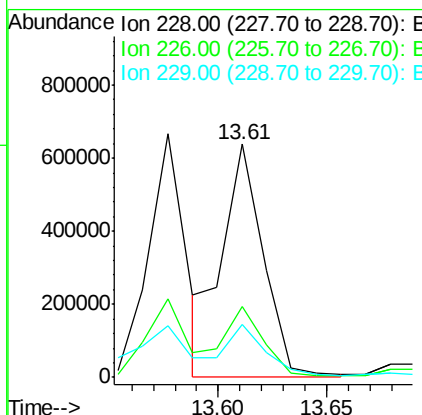
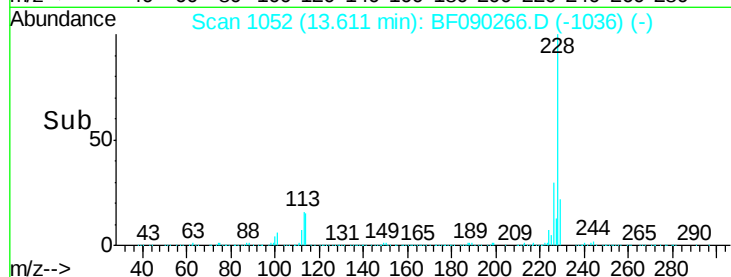
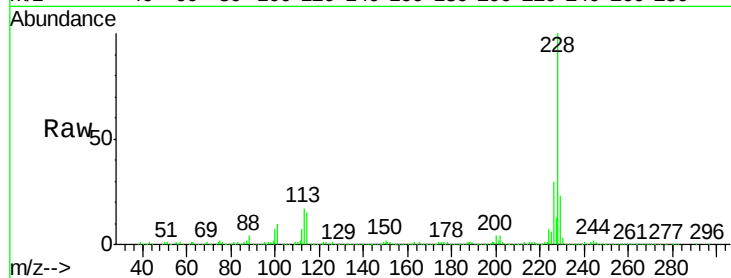
ClientSampleId :

S-3-1-LOC-3(0-5)

Tot Ion:	228	Resp:	837315
Ion Ratio		Lower	Upper
228	100		
226	30.2	24.6	37.0
229	22.8	16.2	24.4

Manual Integrations
APPROVED

sohil
9/28/2016 1:53:20 PM



#85

Indeno(1,2,3-cd)pyrene

Concen: 43.61 ng/mL

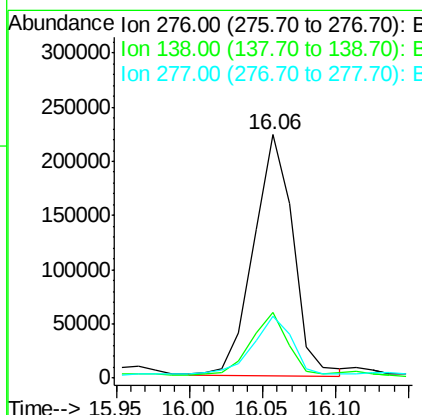
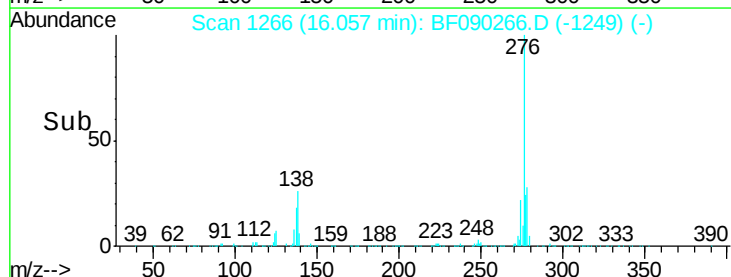
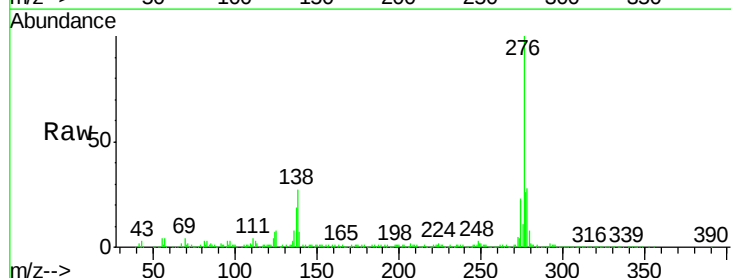
RT: 16.06 min Scan# 1266

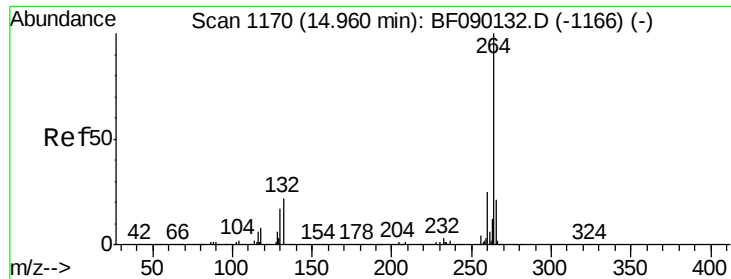
Delta R.T. -0.00 min

Lab File: BF090266.D

Acq: 27 Sep 2016 21:49

Tgt Ion:	276	Resp:	417432
Ion Ratio		Lower	Upper
276	100		
138	6.0	25.9	38.9#
277	4.7	19.9	29.9#





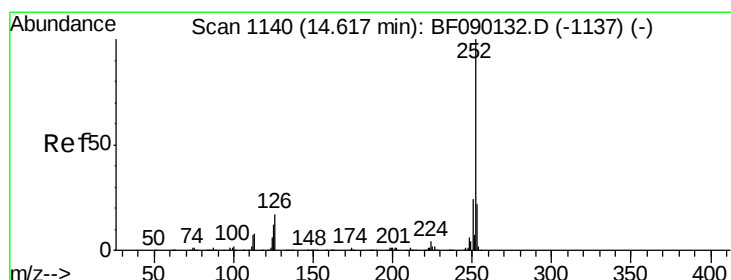
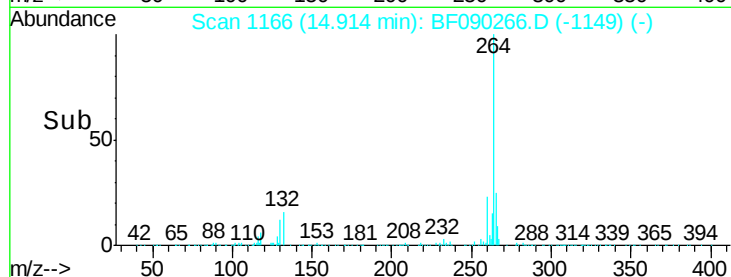
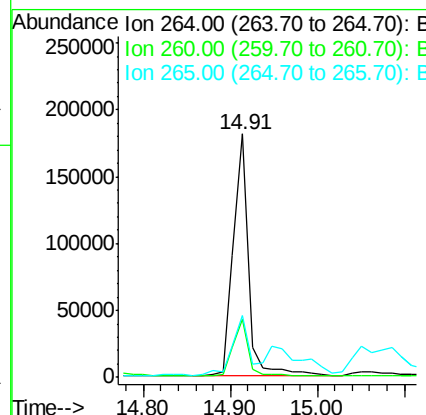
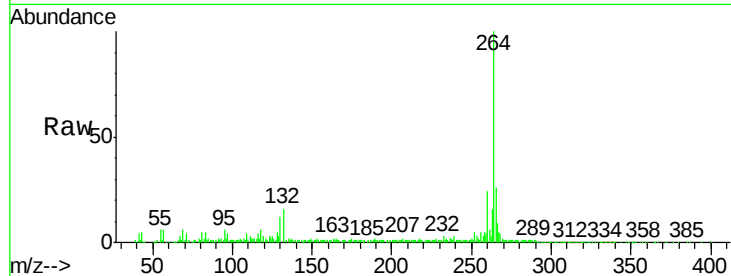
#86
Pervlene-d12
Concen: 20.00 ng
RT: 14.91 min Scan# 1166
Delta R.T. -0.00 min
Lab File: BF090266.D
Acq: 27 Sep 2016 21:49

Instrument :
BNA_F
ClientSampleId :
S-3-1-LOC-3(0-5)

Tot Ion	Ratio	Lower	Upper
264	100		
260	24.0	19.5	29.3
265	25.6	17.0	25.4

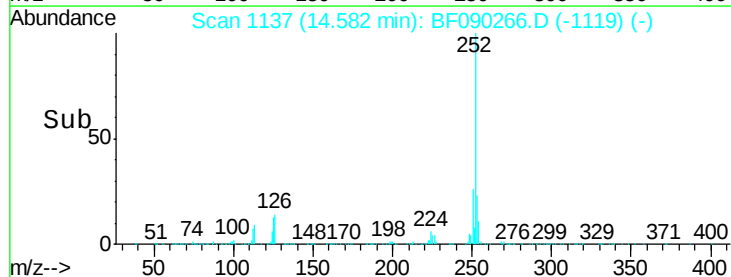
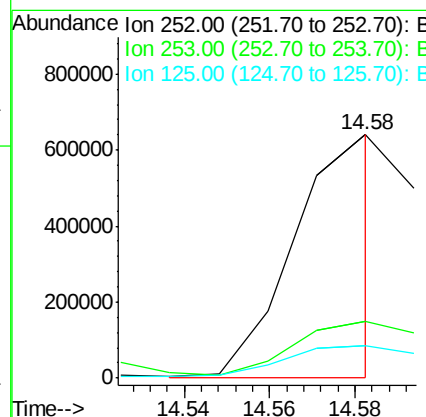
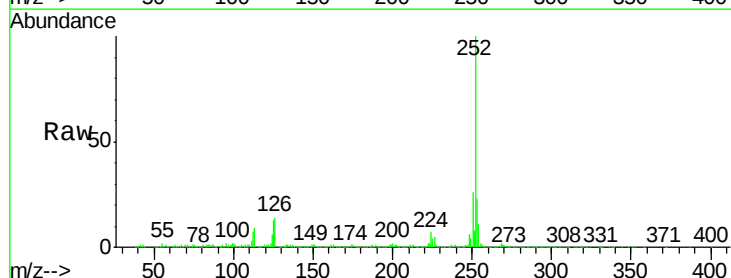
Manual Integrations
APPROVED

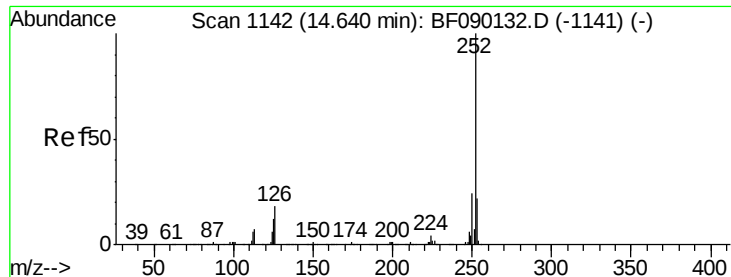
sohil
9/28/2016 1:53:20 PM



#87
Benzo(b)fluoranthene
Concen: 75.27 ng m
RT: 14.58 min Scan# 1137
Delta R.T. 0.01 min
Lab File: BF090266.D
Acq: 27 Sep 2016 21:49

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.4	17.9	26.9
125	13.1	12.7	19.1





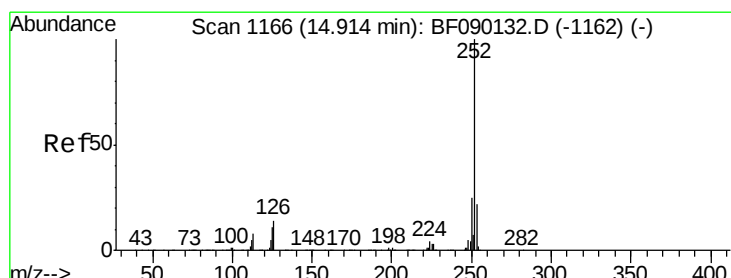
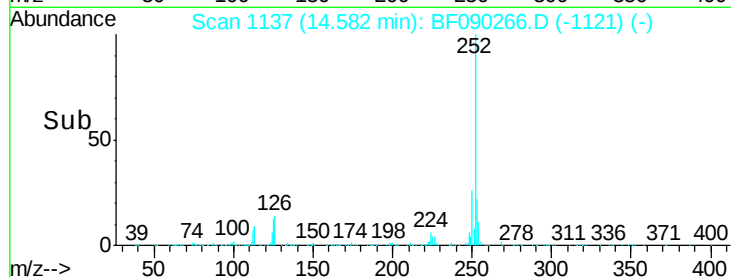
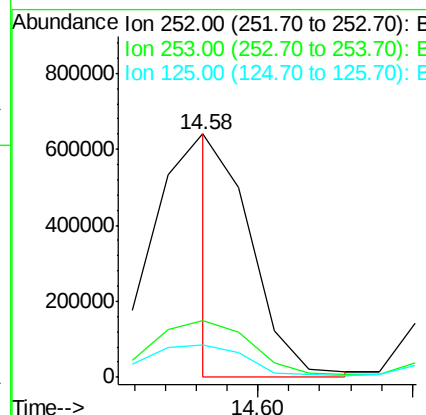
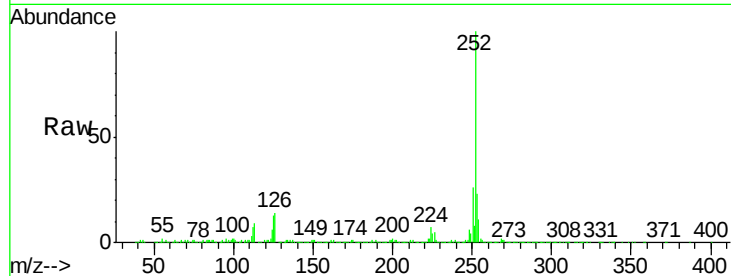
#88
Benzo(k)fluoranthene
Concen: 38.81 ng m
RT: 14.58 min Scan# 1137
Delta R.T. -0.01 min
Lab File: BF090266.D
Acq: 27 Sep 2016 21:49

Instrument :
BNA_F
ClientSampleId :
S-3-1-LOC-3(0-5)

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.4	17.8	26.8
125	13.1	7.8	11.6

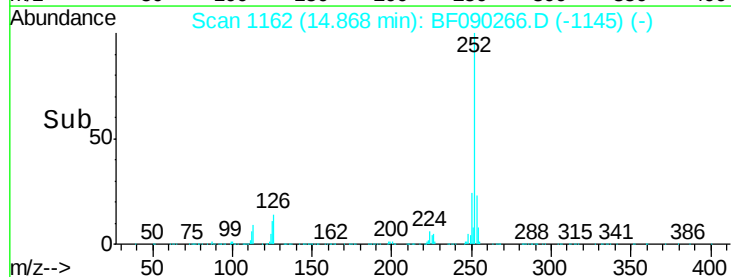
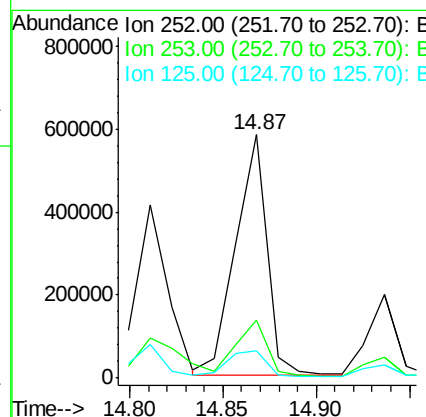
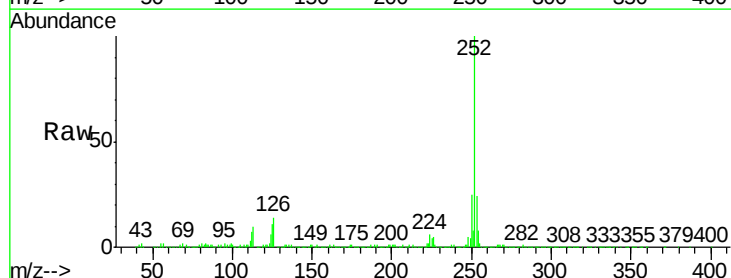
Manual Integrations
APPROVED

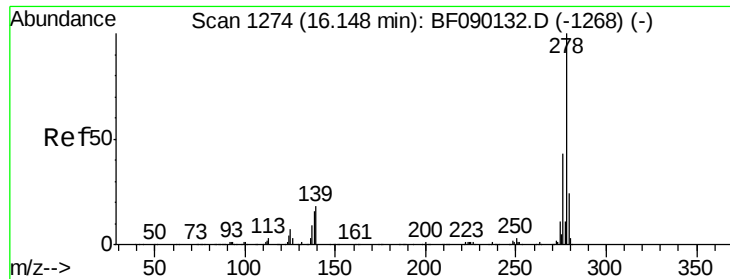
sohil
9/28/2016 1:53:20 PM



#89
Benzo(a)pyrene
Concen: 58.65 ng
RT: 14.87 min Scan# 1162
Delta R.T. -0.00 min
Lab File: BF090266.D
Acq: 27 Sep 2016 21:49

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.8	17.4	26.0
125	11.3	7.7	11.5





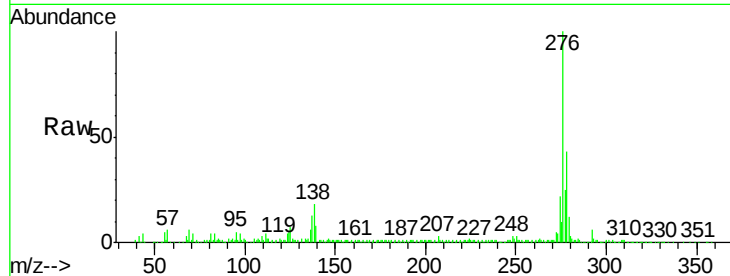
#90
Dibenzo(a,h)anthracene
Concen: 13.60 ng/mL
RT: 16.07 min Scan# 1267
Delta R.T. -0.01 min
Lab File: BF090266.D
Acq: 27 Sep 2016 21:49

Instrument :
BNA_F
ClientSampleId :
S-3-1-LOC-3(0-5)

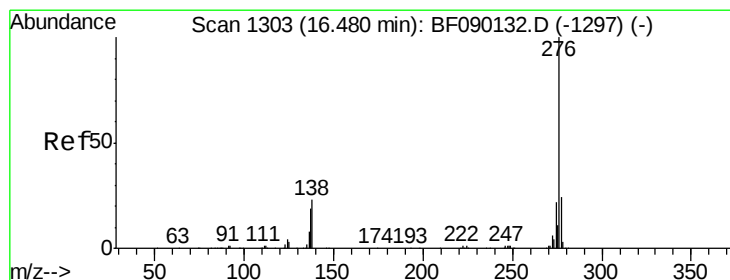
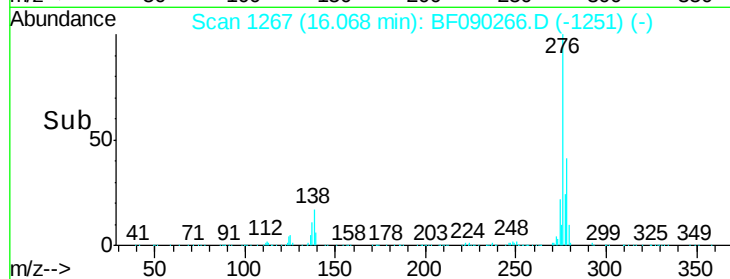
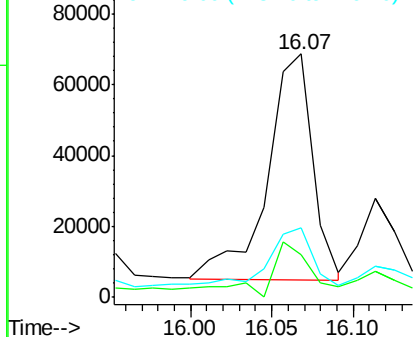
Tot Ion:	278	Resp:	123625
Ion Ratio	Lower	Upper	
278	100		
139	17.8	14.6	21.8
279	28.6	18.8	28.2

Manual Integrations
APPROVED

sohil
9/28/2016 1:53:20 PM



Abundance Ion 278.00 (277.70 to 278.70): E
Ion 139.00 (138.70 to 139.70): E
Ion 279.00 (278.70 to 279.70): E



#91
Benzo(g,h,i)perylene
Concen: 40.66 ng/mL
RT: 16.40 min Scan# 1296
Delta R.T. -0.00 min
Lab File: BF090266.D
Acq: 27 Sep 2016 21:49

Tgt Ion:	276	Resp:	361873
Ion Ratio	Lower	Upper	
276	100		
277	24.2	18.9	28.3
138	24.6	23.3	34.9

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

