

Data Path : Z:\HPCHEM1\BNA F\DATA\BF121416\
 Data File : BF091599.D
 Acq On : 14 Dec 2016 22:08
 Operator : UM/SJ
 Sample : H6006-17
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 WC-1-0-5

Manual Integrations
 APPROVED

sohil
 12/15/2016 5:40:41 PM

Quant Time: Dec 15 01:33:09 2016
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF120916.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Dec 09 19:00:21 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.80	152	288690	20.00	ng	-0.02
21) Naphthalene-d8	8.08	136	1039917	20.00	ng	-0.02
38) Acenaphthene-d10	9.84	164	520867	20.00	ng	-0.02
63) Phenanthrene-d10	11.31	188	709723	20.00	ng	-0.02
75) Chrysene-d12	13.99	240	372264	20.00	ng	0.02
86) Perylene-d12	15.40	264	665684	20.00	ng	0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.40	112	2043195	119.24	ng	-0.01
7) Phenol-d6	6.44	99	2581243	120.83	ng	-0.01
23) Nitrobenzene-d5	7.36	82	1397949	75.03	ng	-0.02
41) 2,4,6-Tribromophenol	10.62	330	467387	108.03	ng	-0.01
44) 2-Fluorobiphenyl	9.16	172	2369372	78.60	ng	-0.02
78) Terphenyl-d14	12.91	244	1433001	87.35	ng	-0.01
Target Compounds						Qvalue
10) Phenol	6.45	94	130545	5.23	ng	# 72
31) Naphthalene	8.10	128	192451	3.98	ng	99
48) Acenaphthylene	9.70	152	418393	9.39	ng	98
49) Dimethylphthalate	9.55	163	329567	9.99	ng	98
51) Acenaphthene	9.86	154	158304	5.12	ng	99
54) Dibenzofuran	10.03	168	117852	3.08	ng	# 93
57) Fluorene	10.37	166	300149	6.74	ng	# 96
70) Phenanthrene	11.34	178	4193733	119.32	ng	96
71) Anthracene	11.39	178	1392156	36.72	ng	99
72) Carbazole	11.55	167	302060	9.09	ng	97
74) Fluoranthene	12.56	202	8837376	240.14	ng	91
77) Pyrene	12.79	202	10991262m	372.16	ng	
80) Benzo(a)anthracene	13.97	228	7079571	327.47	ng	94
82) Chrysene	14.01	228	5838301	258.12	ng	94
85) Indeno(1,2,3-cd)pyrene	16.82	276	4761245	233.92	ng	98
87) Benzo(b)fluoranthene	15.01	252	8628172m	217.43	ng	
88) Benzo(k)fluoranthene	15.03	252	2873967m	82.37	ng	
89) Benzo(a)pyrene	15.37	252	6367893	178.12	ng	96
90) Dibenzo(a,h)anthracene	16.81	278	1301941m	40.65	ng	
91) Benzo(a,h,i)perylene	17.23	276	4395393	134.85	ng	# 94

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

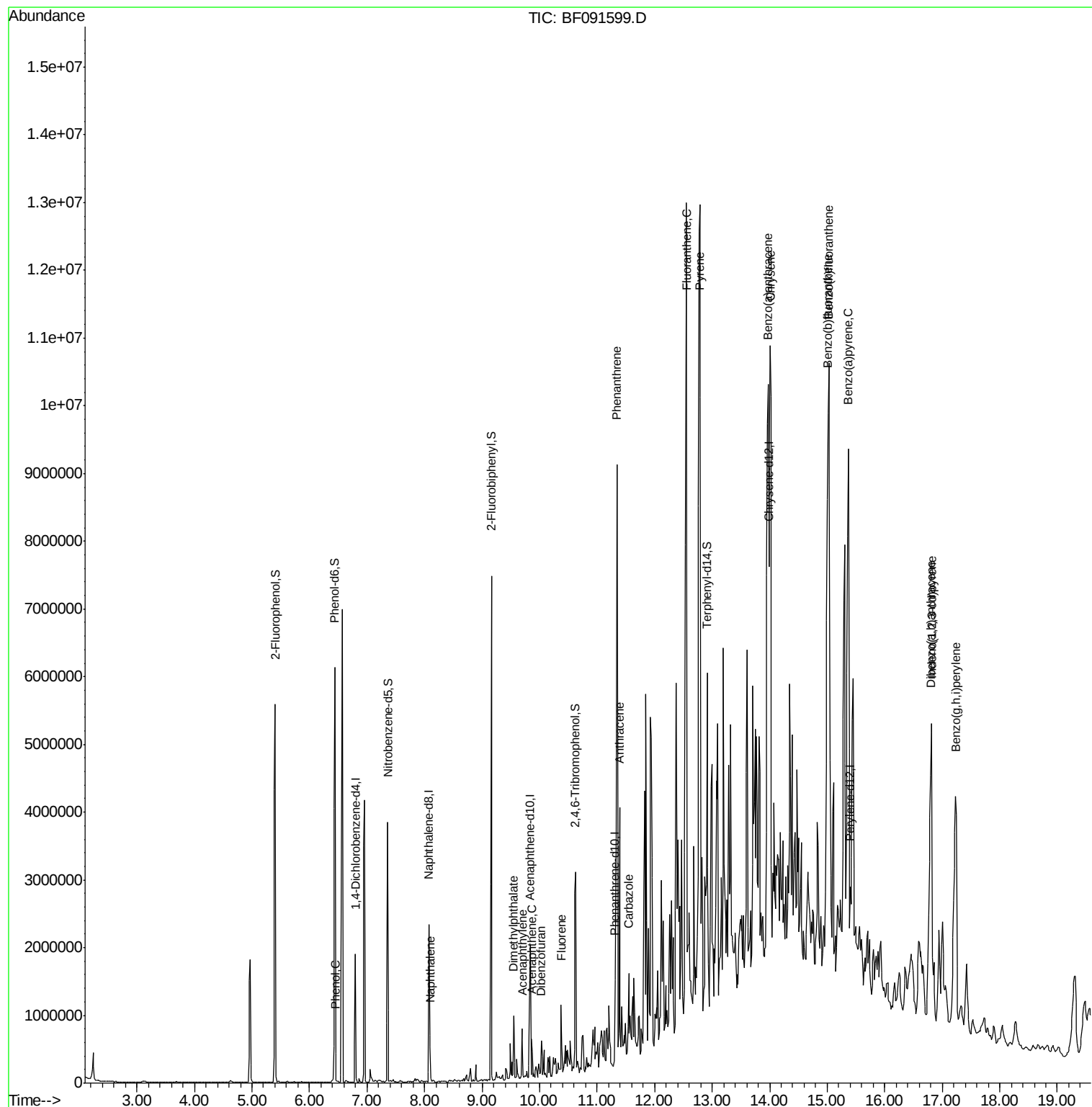
Data Path : Z:\HPCHEM1\BNA F\DATA\BF121416\
Data File : BF091599.D
Acq On : 14 Dec 2016 22:08
Operator : UM/SJ
Sample : H6006-17
Misc :
ALS Vial : 14 Sample Multiplier: 1

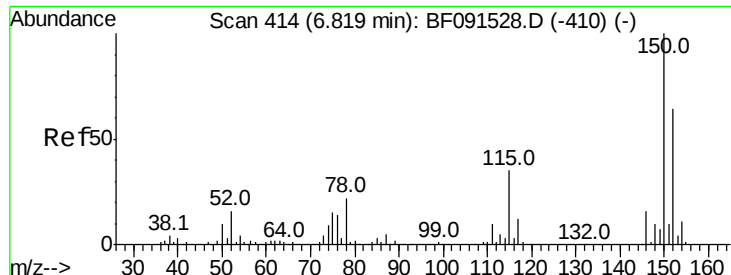
Instrument :
BNA_F
ClientSampleId :
WC-1-0-5

Manual Integrations
APPROVED

sohil
12/15/2016 5:40:41 PM

Quant Time: Dec 15 01:33:09 2016
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF120916.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Dec 09 19:00:21 2016
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.80 min Scan# 412

Delta R.T. -0.02 min

Lab File: BF091599.D

Acq: 14 Dec 2016 22:08

Instrument :

BNA_F

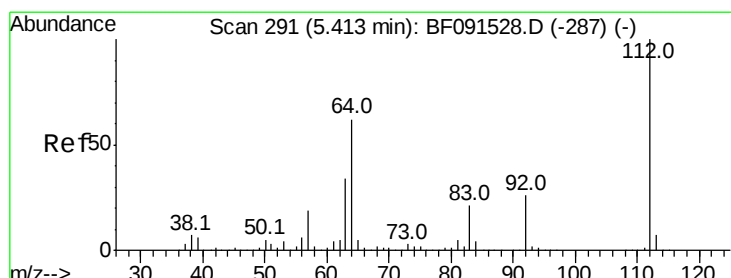
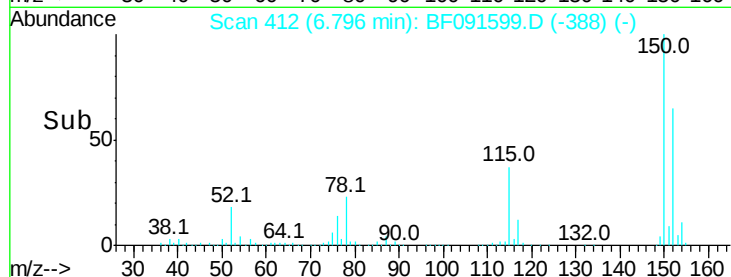
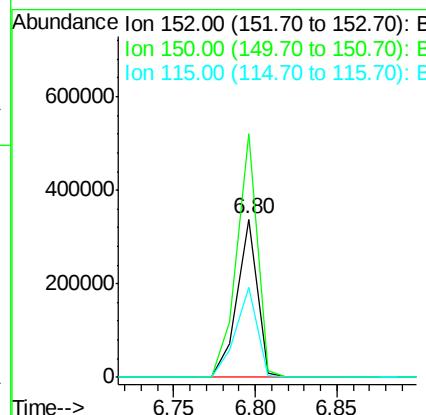
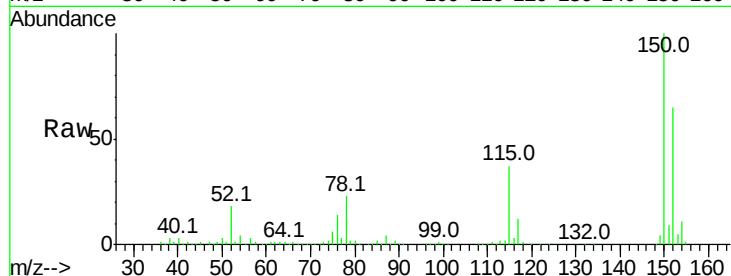
ClientSampleId :

WC-1-0-5

Tot Ion:	152	Resp:	288690
Ion Ratio	Lower	Upper	
152	100		
150	154.0	122.5	183.7
115	57.0	51.8	77.8

Manual Integrations
APPROVED

sohil
12/15/2016 5:40:41 PM



#5

2-Fluorophenol

Concen: 119.24 ng

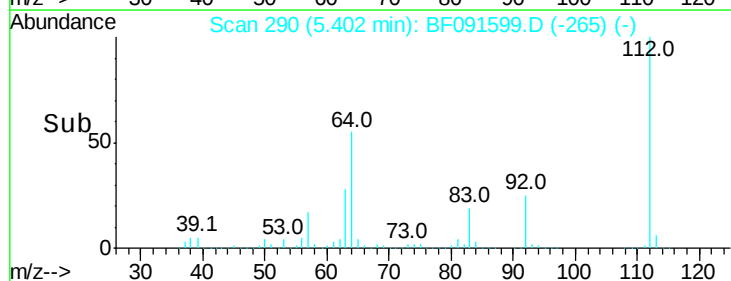
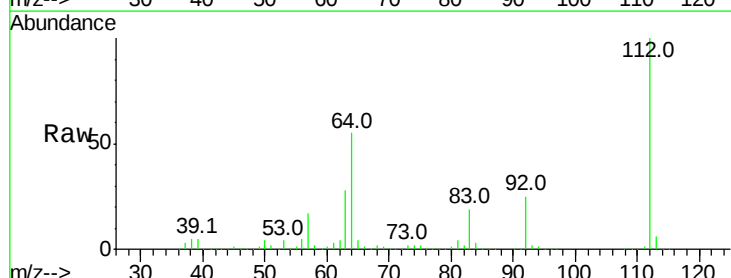
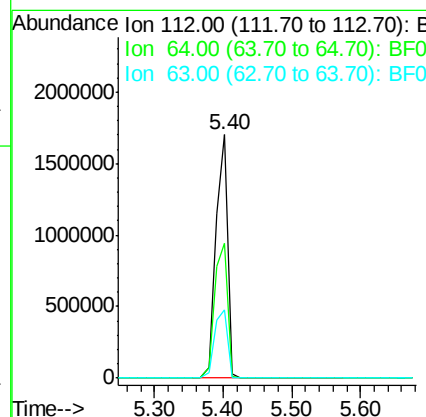
RT: 5.40 min Scan# 290

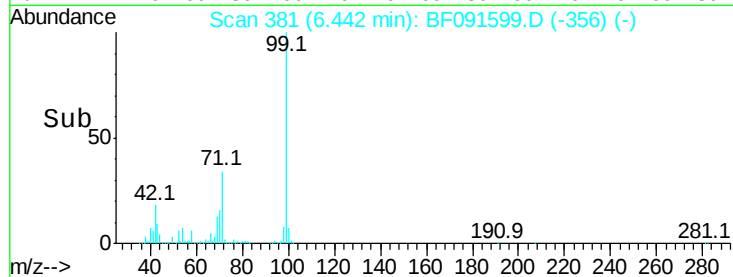
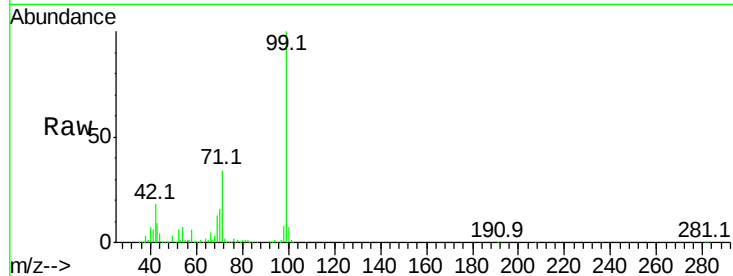
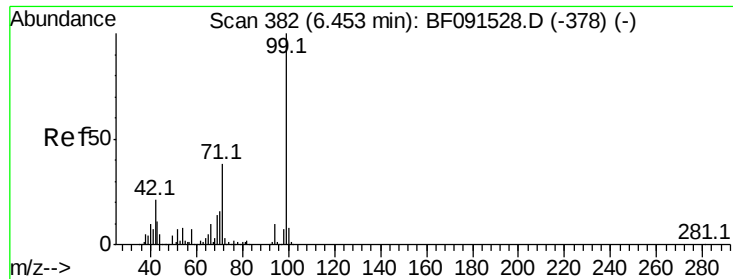
Delta R.T. -0.01 min

Lab File: BF091599.D

Acq: 14 Dec 2016 22:08

Tgt Ion:	112	Resp:	2043195
Ion Ratio	Lower	Upper	
112	100		
64	55.2	61.5	92.3#
63	28.3	33.3	49.9#





#7

Phenol-d6

Concen: 120.83 ng

RT: 6.44 min Scan# 381

Delta R.T. -0.01 min

Lab File: BF091599.D

Acq: 14 Dec 2016 22:08

Tot Ion:	99	Resp:	2581243
Ion	Ratio	Lower	Upper
99	100		
42	18.0	20.6	31.0#
71	33.6	29.9	44.9

Instrument :

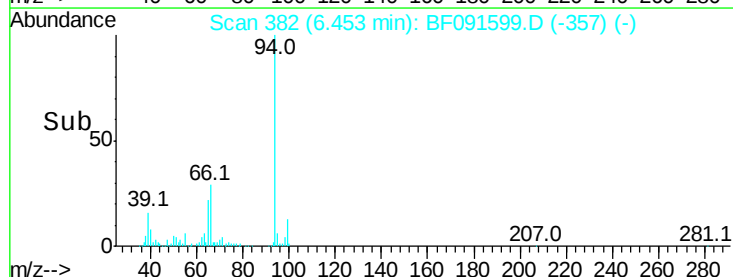
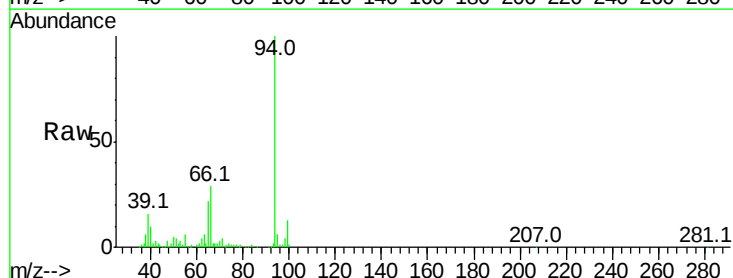
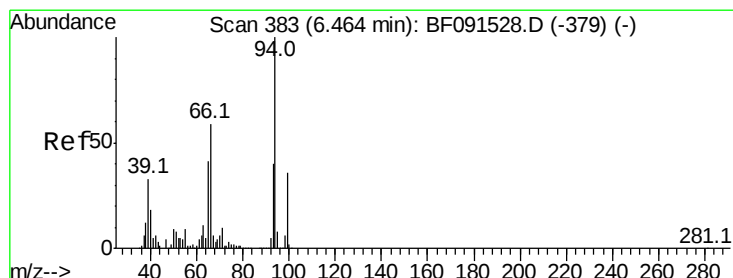
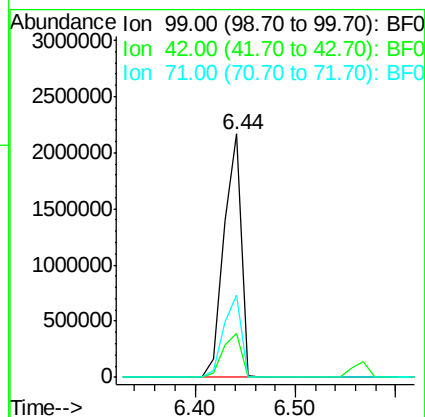
BNA_F

ClientSampleId :

WC-1-0-5

Manual Integrations
APPROVED

sohil
12/15/2016 5:40:41 PM



#10

Phenol

Concen: 5.23 ng

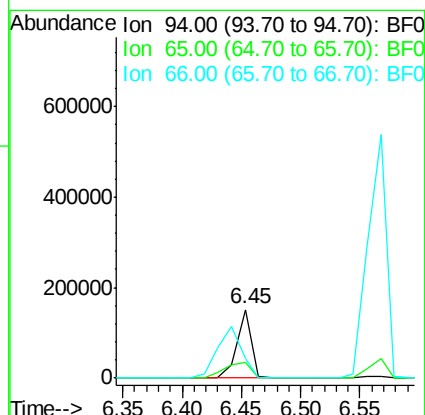
RT: 6.45 min Scan# 382

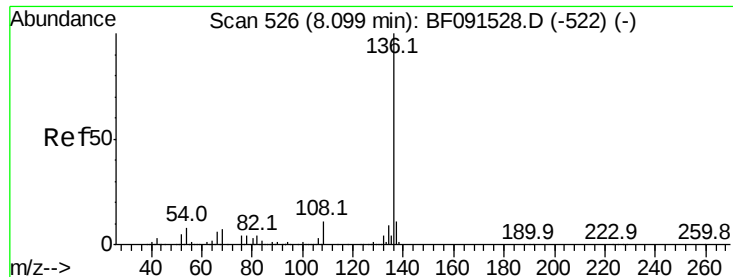
Delta R.T. -0.01 min

Lab File: BF091599.D

Acq: 14 Dec 2016 22:08

Tgt Ion:	94	Resp:	130545
Ion	Ratio	Lower	Upper
94	100		
65	22.4	16.9	56.9
66	29.1	30.6	70.6#





#21

Naphthalene-d8

Concen: 20.00 ng

RT: 8.08 min Scan# 524

Delta R.T. -0.02 min

Lab File: BF091599.D

Acq: 14 Dec 2016 22:08

Instrument :

BNA_F

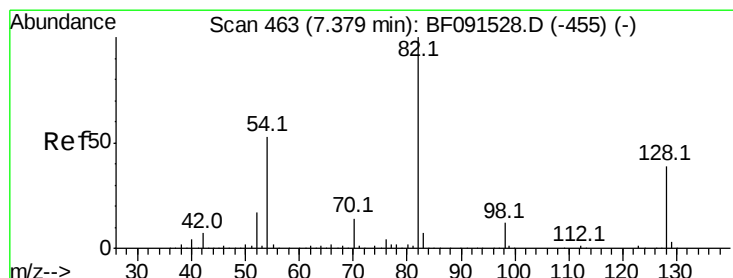
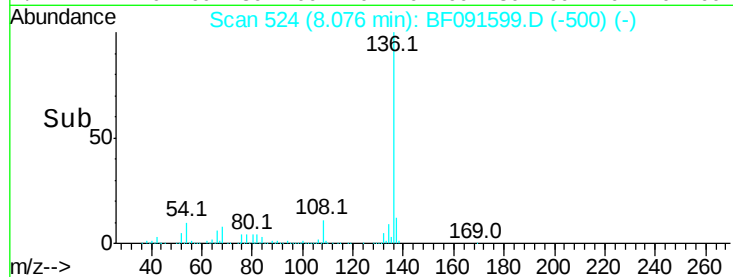
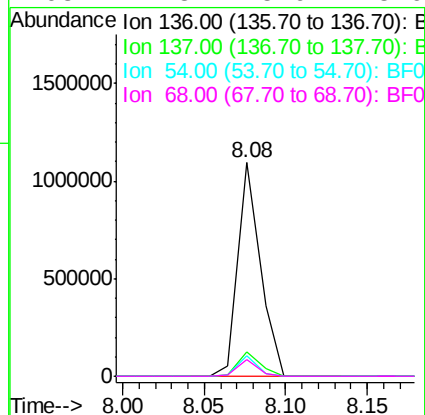
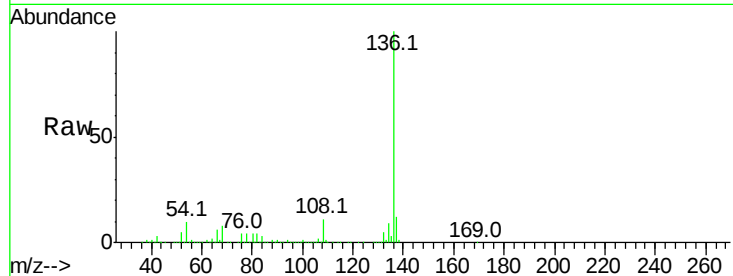
ClientSampleId :

WC-1-0-5

Tot Ion	Ratio	Lower	Upper
136	100		
137	11.5	9.1	13.7
54	9.6	9.1	13.7
68	7.8	5.9	8.9

Manual Integrations
APPROVED

sohil
12/15/2016 5:40:41 PM



#23

Nitrobenzene-d5

Concen: 75.03 ng

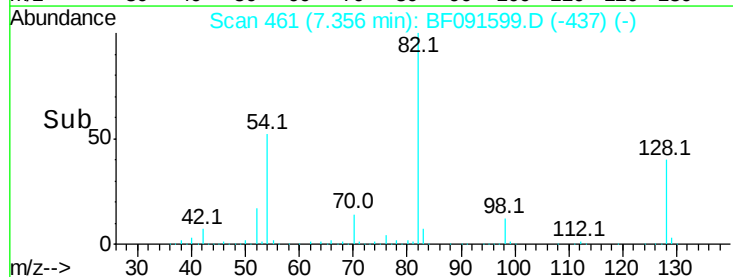
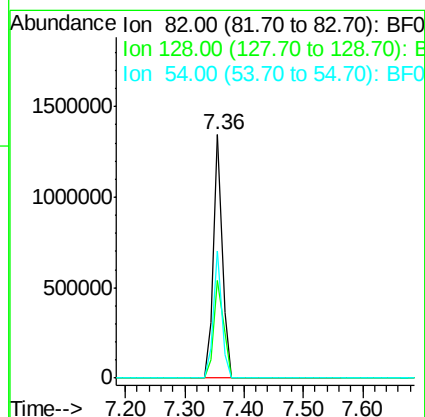
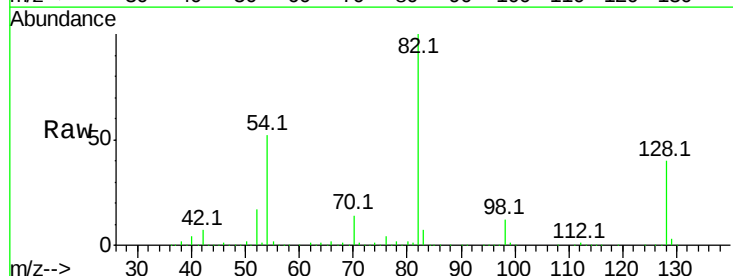
RT: 7.36 min Scan# 461

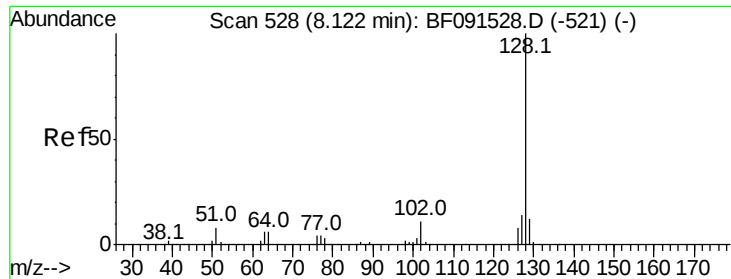
Delta R.T. -0.02 min

Lab File: BF091599.D

Acq: 14 Dec 2016 22:08

Tgt Ion	Ratio	Lower	Upper
82	100		
128	39.9	31.8	47.6
54	52.3	49.1	73.7





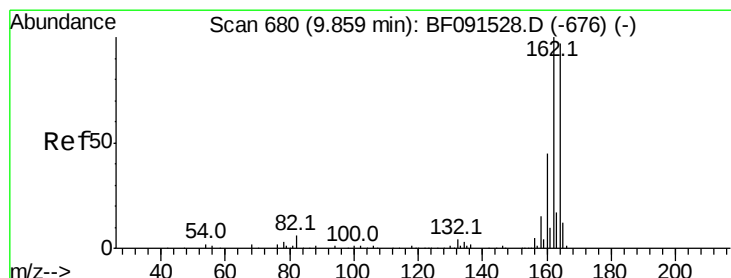
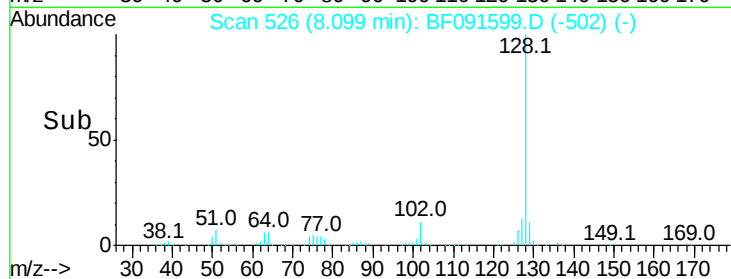
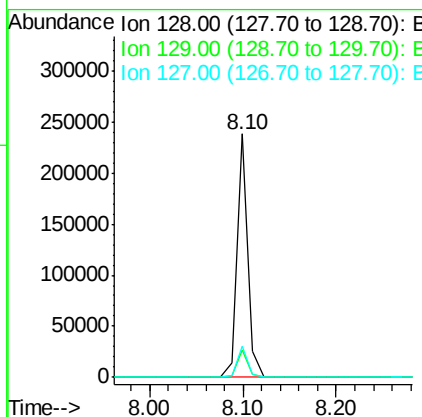
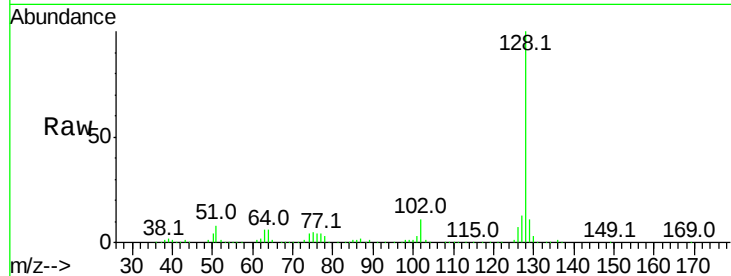
#31
Naphthalene
Concen: 3.98 ng
RT: 8.10 min Scan# 526
Delta R.T. -0.02 min
Lab File: BF091599.D
Acq: 14 Dec 2016 22:08

Instrument :
BNA_F
ClientSampleId :
WC-1-0-5

Tot Ion	Ratio	Lower	Upper
128	100		
129	11.4	9.1	13.7
127	12.9	11.0	16.4

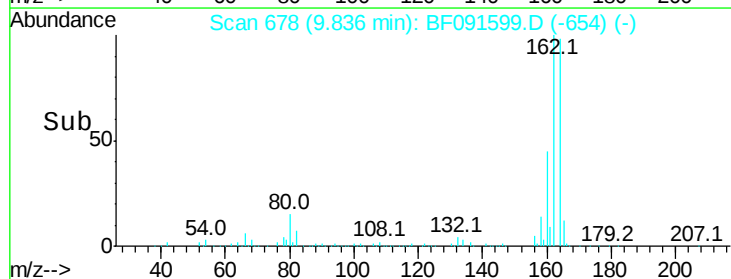
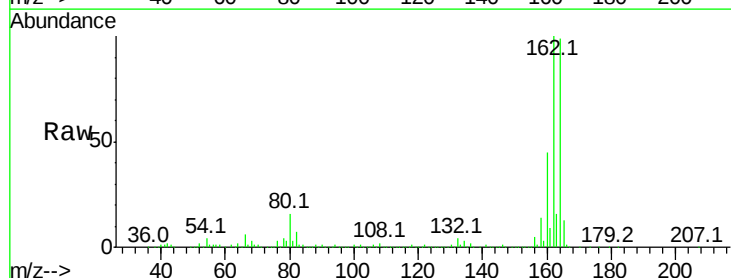
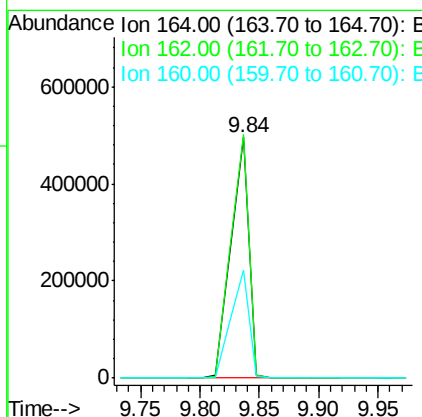
Manual Integrations
APPROVED

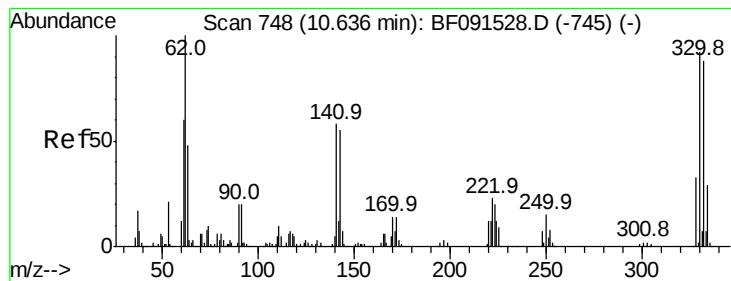
sohil
12/15/2016 5:40:41 PM



#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 9.84 min Scan# 678
Delta R.T. -0.02 min
Lab File: BF091599.D
Acq: 14 Dec 2016 22:08

Tgt Ion	Ratio	Lower	Upper
164	100		
162	101.0	82.6	124.0
160	45.0	36.7	55.1





#41

2,4,6-Tribromophenol

Concen: 108.03 ng

RT: 10.62 min Scan# 747

Delta R.T. -0.01 min

Lab File: BF091599.D

Acq: 14 Dec 2016 22:08

Instrument :

BNA_F

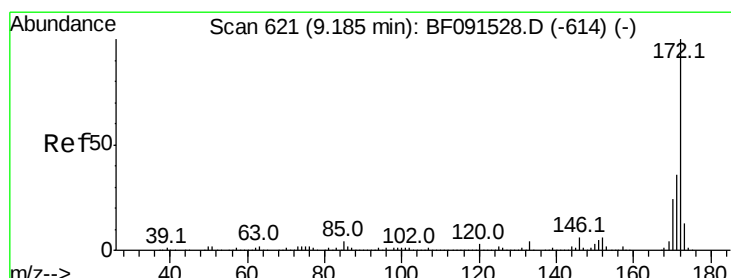
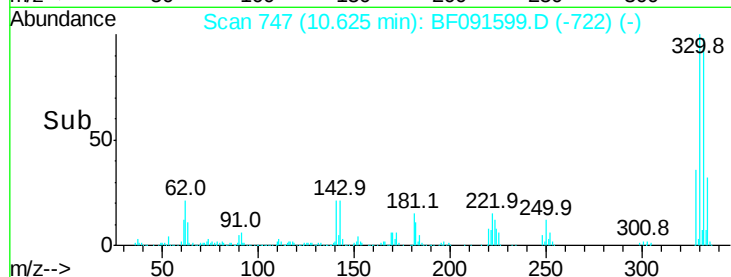
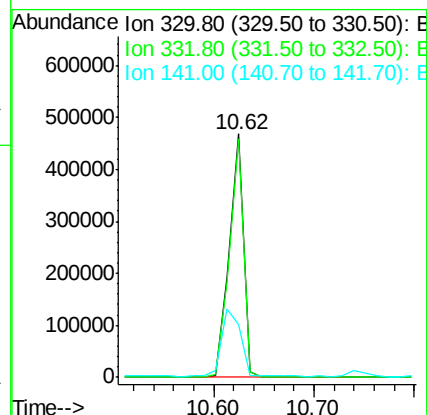
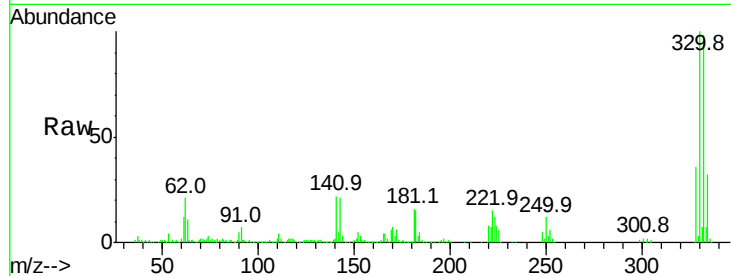
ClientSampleId :

WC-1-0-5

Tot Ion:	330	Resp:	467387
Ion Ratio	Lower	Upper	
330	100		
332	96.9	76.2	114.4
141	36.0	33.6	50.4

Manual Integrations
APPROVED

sohil
12/15/2016 5:40:41 PM



#44

2-Fluorobiphenyl

Concen: 78.60 ng

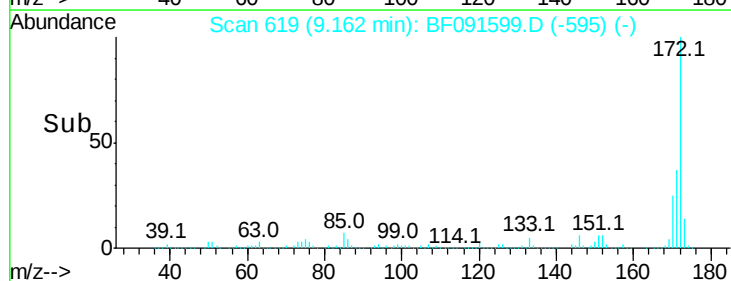
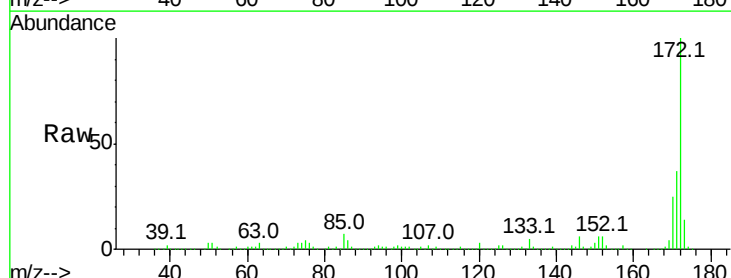
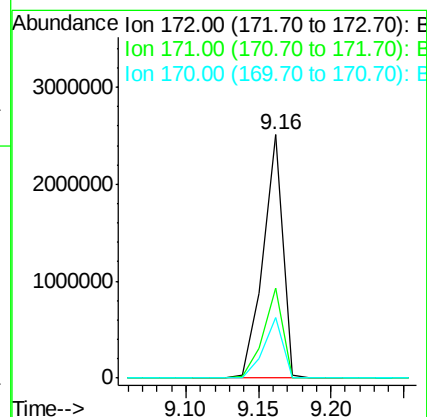
RT: 9.16 min Scan# 619

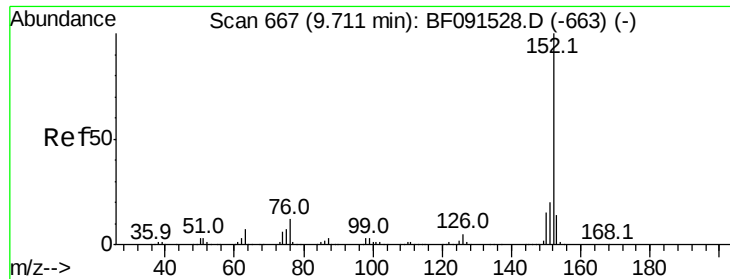
Delta R.T. -0.02 min

Lab File: BF091599.D

Acq: 14 Dec 2016 22:08

Tgt Ion:	172	Resp:	2369372
Ion Ratio	Lower	Upper	
172	100		
171	36.9	29.4	44.0
170	25.0	19.7	29.5





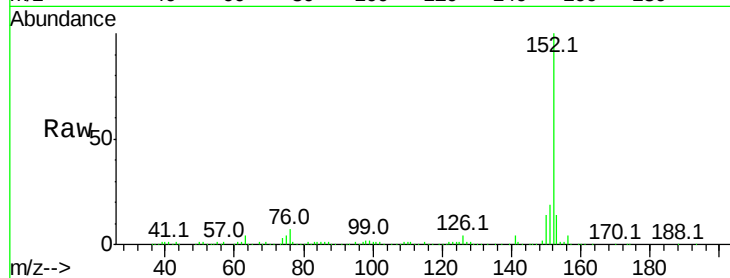
#48
Acenaphthylene
Concen: 9.39 ng
RT: 9.70 min Scan# 666
Delta R.T. -0.01 min
Lab File: BF091599.D
Acq: 14 Dec 2016 22:08

Instrument :
BNA_F
ClientSampleId :
WC-1-0-5

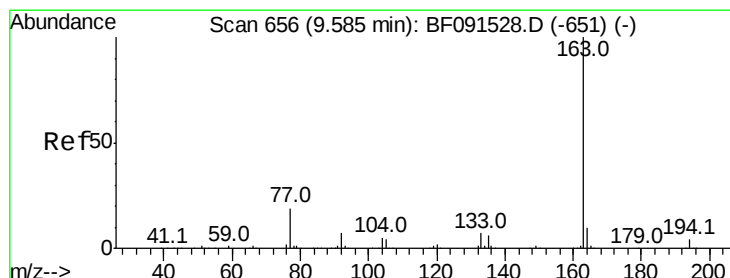
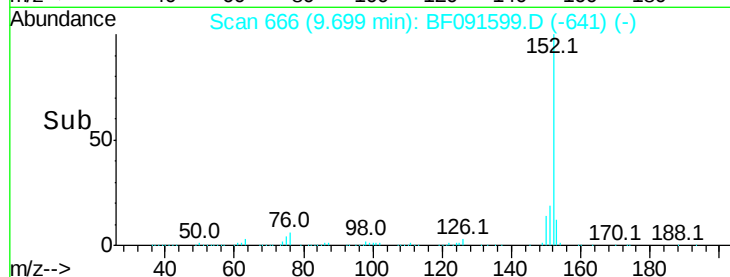
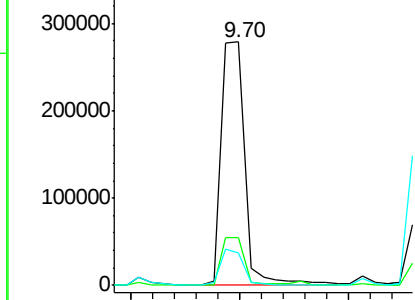
Tot Ion	Ratio	Lower	Upper
152	100		
151	19.4	16.6	24.8
153	13.5	10.7	16.1

Manual Integrations
APPROVED

sohil
12/15/2016 5:40:41 PM

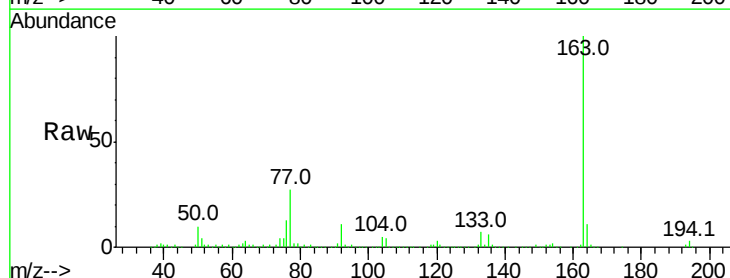


Abundance Ion 152.00 (151.70 to 152.70): E
Ion 151.00 (150.70 to 151.70): E
Ion 153.00 (152.70 to 153.70): E

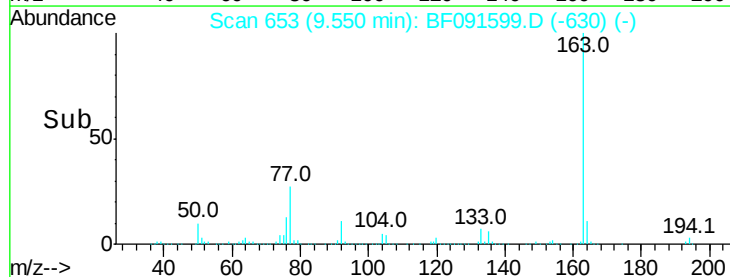
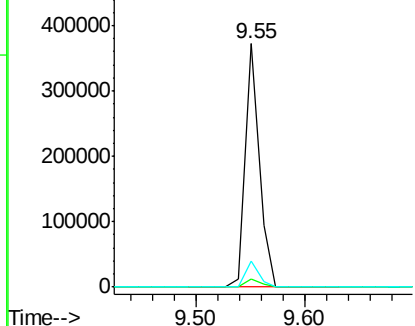


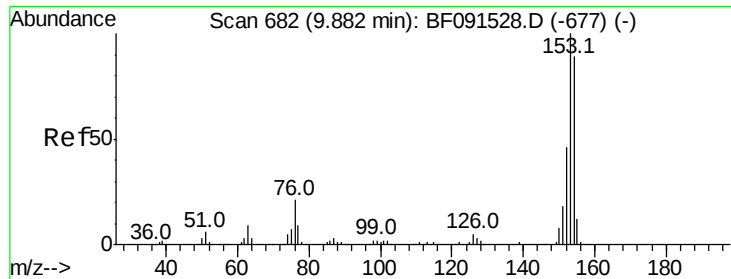
#49
Dimethylphthalate
Concen: 9.99 ng
RT: 9.55 min Scan# 653
Delta R.T. -0.03 min
Lab File: BF091599.D
Acq: 14 Dec 2016 22:08

Tgt Ion	Ratio	Lower	Upper
163	100		
194	3.1	3.0	4.4
164	10.7	7.8	11.8



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: 5.12 ng

RT: 9.86 min Scan# 680

Delta R.T. -0.02 min

Lab File: BF091599.D

Acq: 14 Dec 2016 22:08

Instrument :

BNA_F

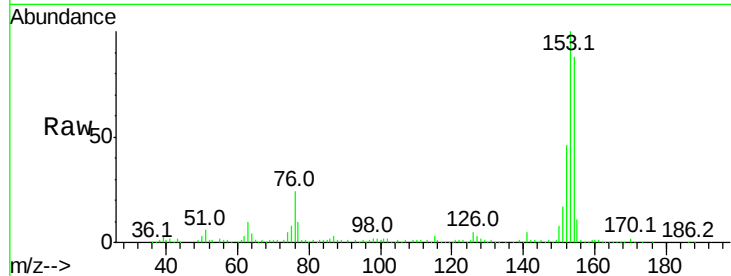
ClientSampleId :

WC-1-0-5

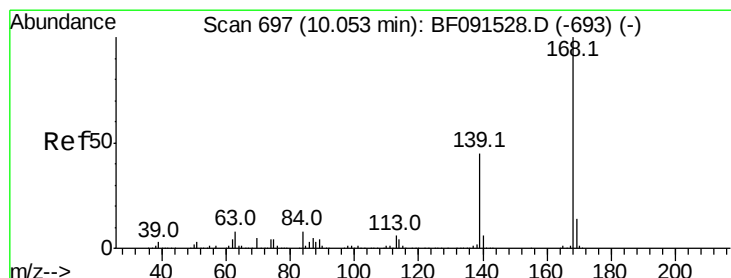
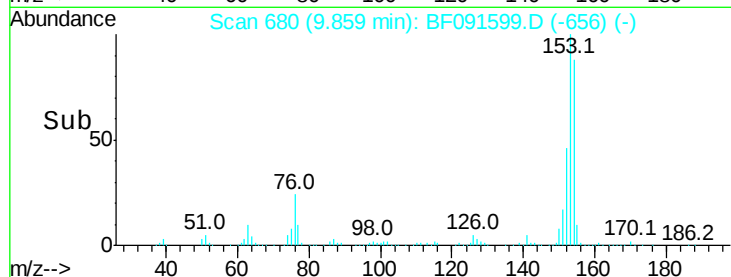
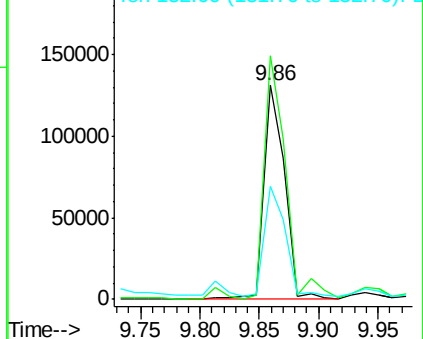
Tot Ion:	154	Resp:	158304
Ion Ratio	Lower	Upper	
154	100		
153	114.0	91.0	136.6
152	52.8	44.2	66.2

Manual Integrations
APPROVED

sohil
12/15/2016 5:40:41 PM



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



#54

Dibenzofuran

Concen: 3.08 ng

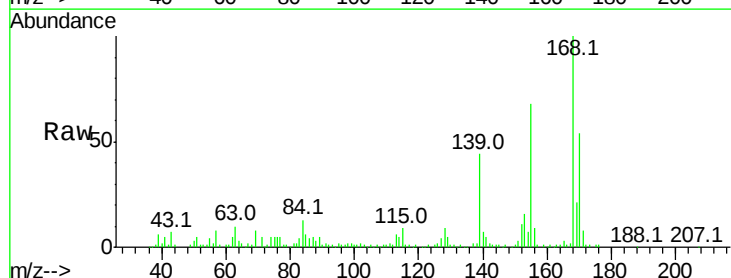
RT: 10.03 min Scan# 695

Delta R.T. -0.02 min

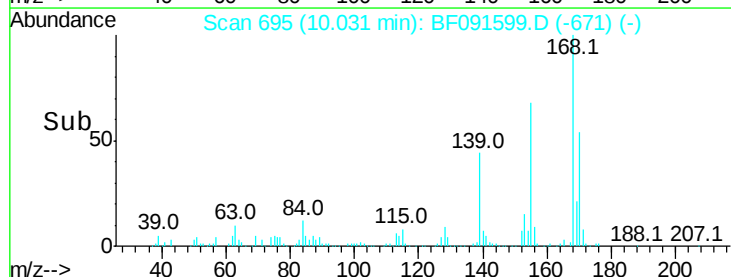
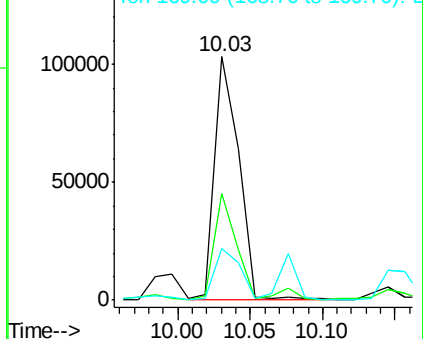
Lab File: BF091599.D

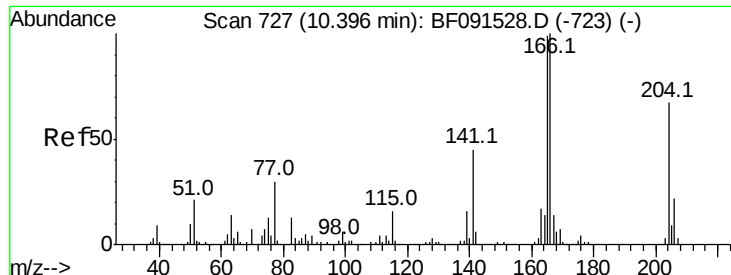
Acq: 14 Dec 2016 22:08

Tgt Ion:	168	Resp:	117852
Ion Ratio	Lower	Upper	
168	100		
139	43.9	33.4	50.2
169	21.0	11.1	16.7#



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





#57

Fluorene

Concen: 6.74 ng

RT: 10.37 min Scan# 725

Delta R.T. -0.02 min

Lab File: BF091599.D

Acq: 14 Dec 2016 22:08

Instrument :

BNA_F

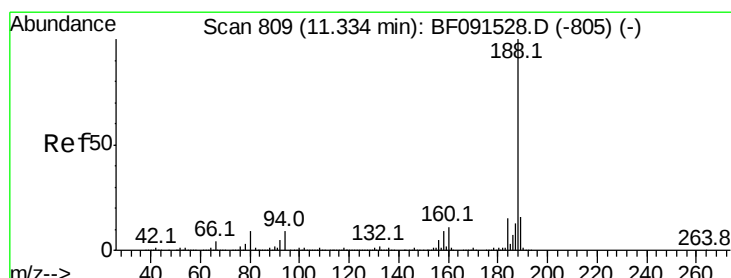
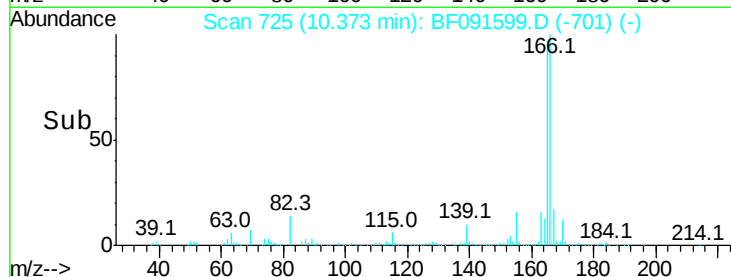
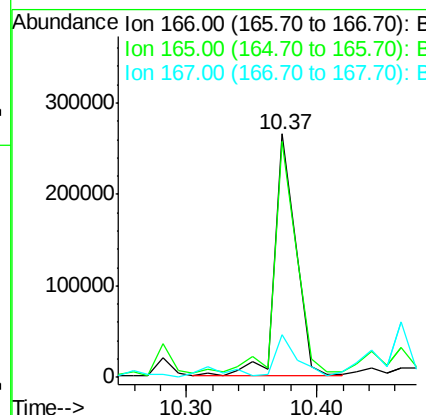
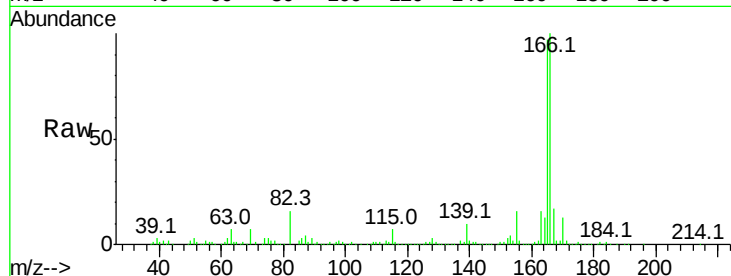
ClientSampleId :

WC-1-0-5

Tot Ion	Ratio	Resp	Lower	Upper
166	100	300149		
165	97.1	80.0	120.0	
167	17.3	10.8	16.2	

Manual Integrations
APPROVED

sohil
12/15/2016 5:40:41 PM



#63

Phenanthrene-d10

Concen: 20.00 ng

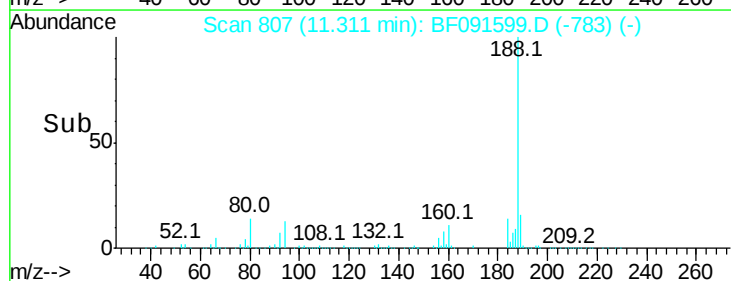
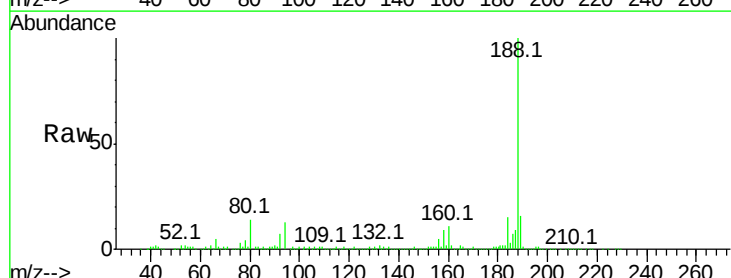
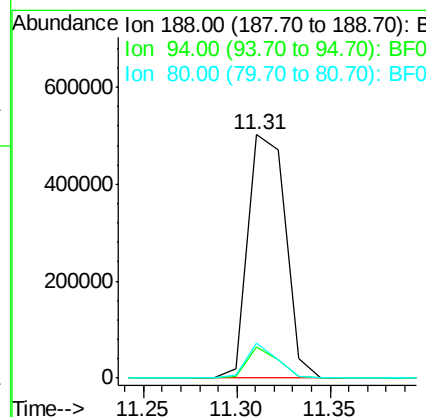
RT: 11.31 min Scan# 807

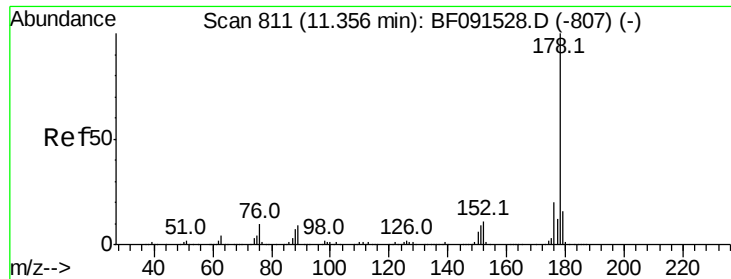
Delta R.T. -0.02 min

Lab File: BF091599.D

Acq: 14 Dec 2016 22:08

Tgt Ion	Ratio	Resp	Lower	Upper
188	100	709723		
94	12.7	9.2	13.8	
80	14.1	10.5	15.7	





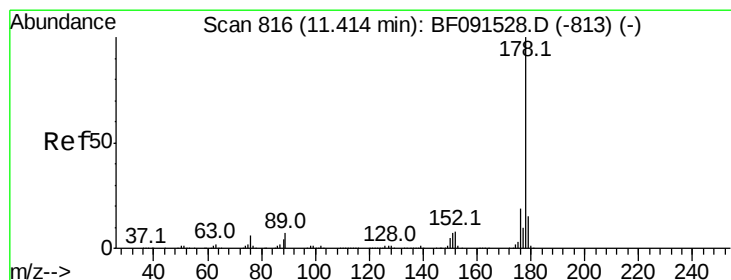
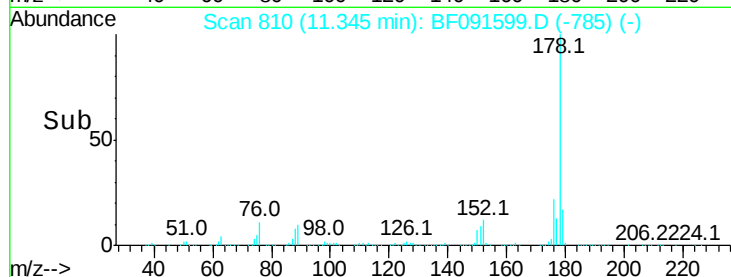
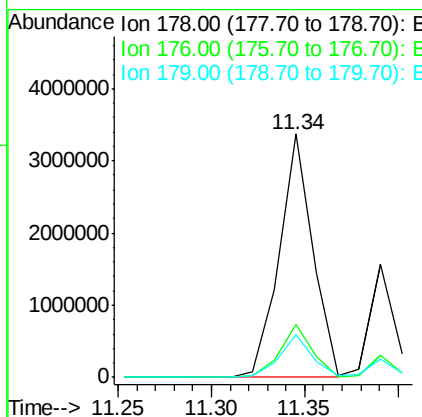
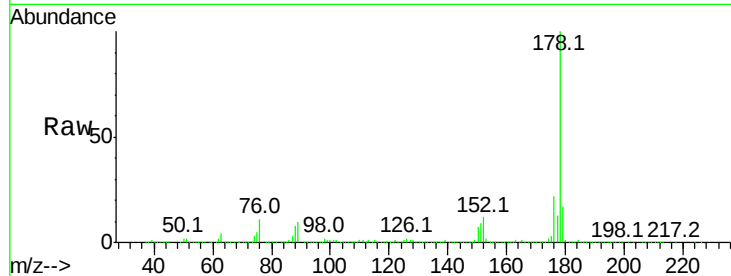
#70
Phenanthrene
Concen: 119.32 ng
RT: 11.34 min Scan# 810
Delta R.T. -0.01 min
Lab File: BF091599.D
Acq: 14 Dec 2016 22:08

Instrument :
BNA_F
ClientSampleId :
WC-1-0-5

Tot Ion:178 Resp: 4193733
Ion Ratio Lower Upper
178 100
176 21.9 15.9 23.9
179 17.5 12.6 18.8

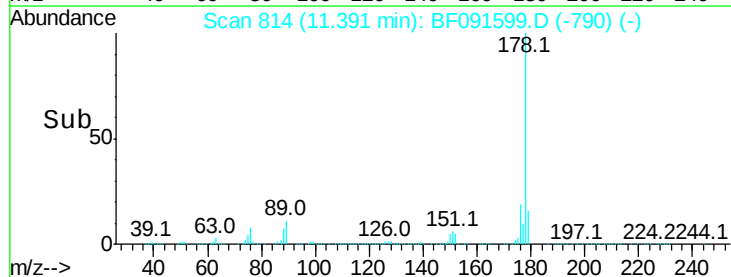
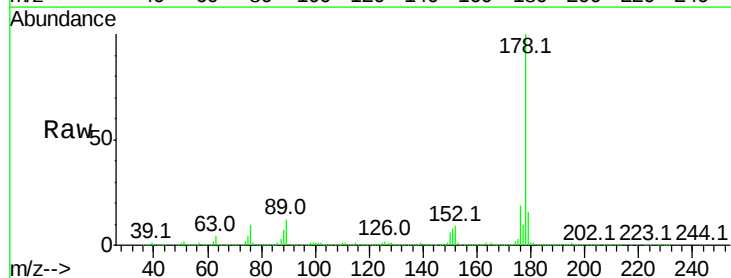
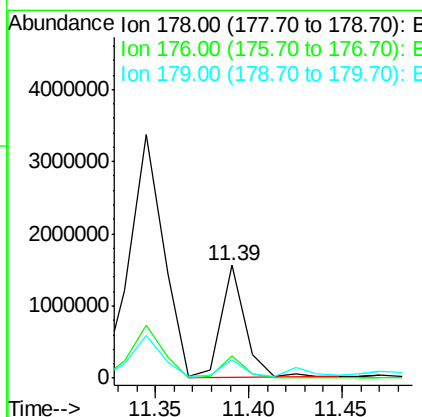
Manual Integrations
APPROVED

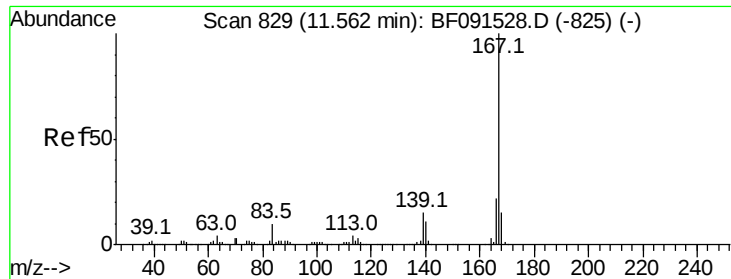
sohil
12/15/2016 5:40:41 PM



#71
Anthracene
Concen: 36.72 ng
RT: 11.39 min Scan# 814
Delta R.T. -0.02 min
Lab File: BF091599.D
Acq: 14 Dec 2016 22:08

Tgt Ion:178 Resp: 1392156
Ion Ratio Lower Upper
178 100
176 19.3 15.8 23.6
179 16.1 12.7 19.1





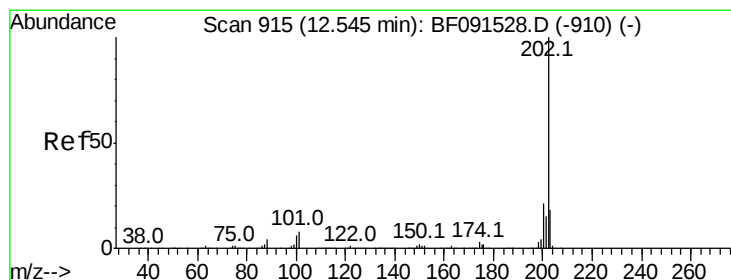
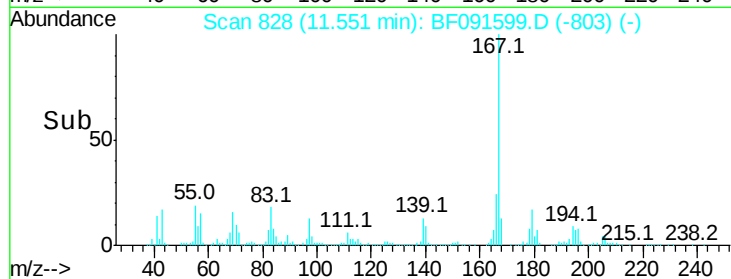
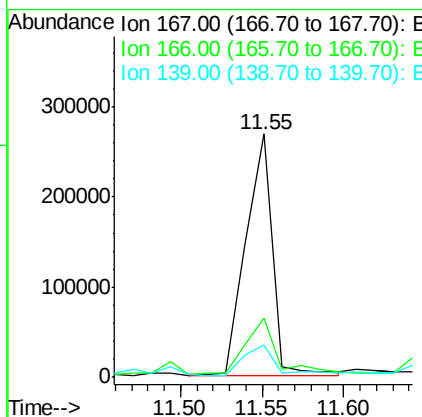
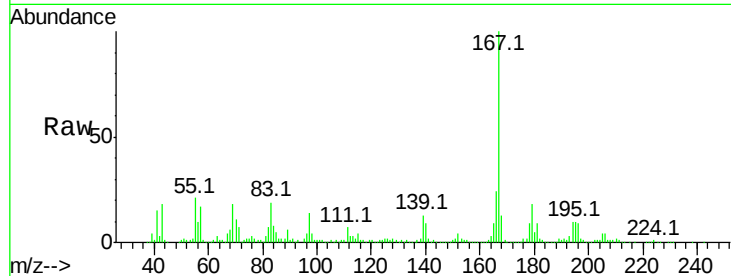
#72
 Carbazole
 Concen: 9.09 ng
 RT: 11.55 min Scan# 828
 Delta R.T. -0.01 min
 Lab File: BF091599.D
 Acq: 14 Dec 2016 22:08

Instrument :
 BNA_F
 ClientSampleId :
 WC-1-0-5

Tot Ion	Ratio	Lower	Upper
167	100		
166	24.2	18.1	27.1
139	13.5	11.5	17.3

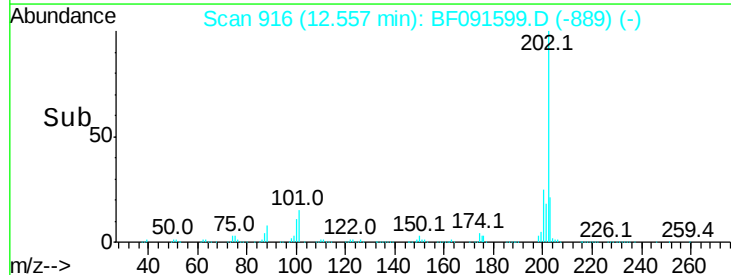
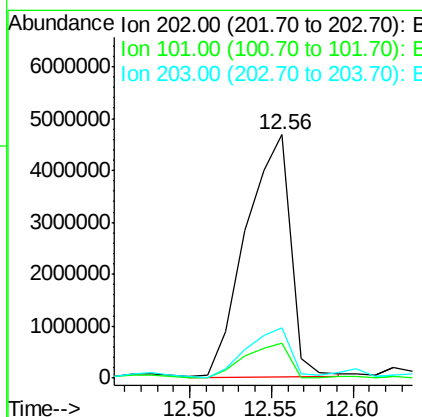
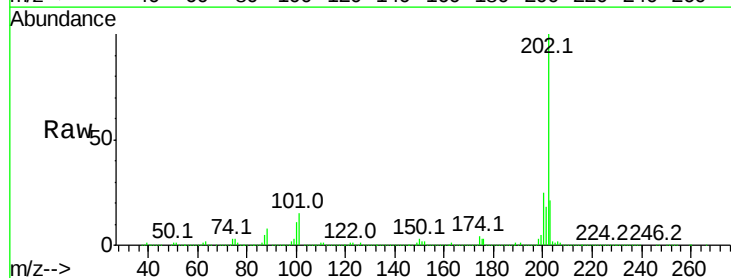
Manual Integrations
 APPROVED

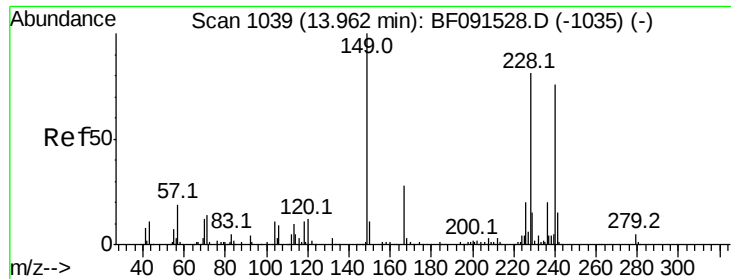
sohil
 12/15/2016 5:40:41 PM



#74
 Fluoranthene
 Concen: 240.14 ng
 RT: 12.56 min Scan# 916
 Delta R.T. 0.01 min
 Lab File: BF091599.D
 Acq: 14 Dec 2016 22:08

Tgt Ion	Ratio	Lower	Upper
202	100		
101	14.6	0.0	29.5
203	20.7	0.0	37.8





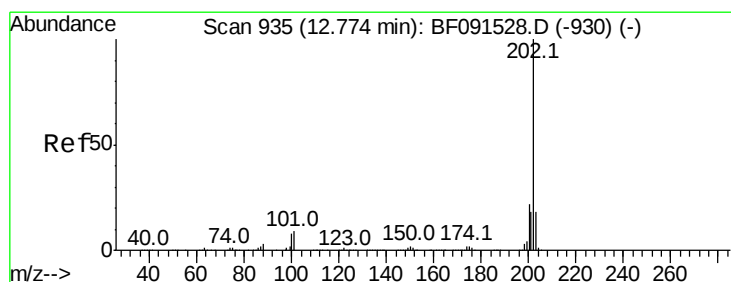
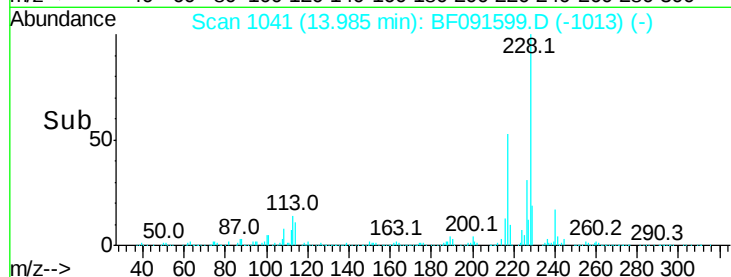
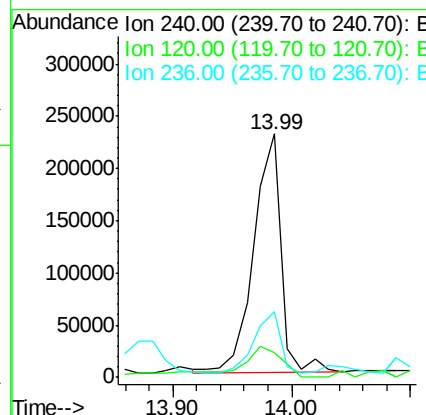
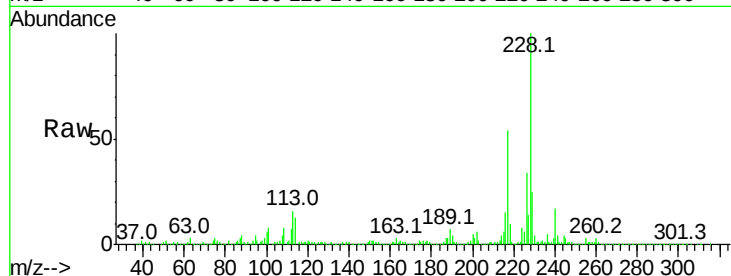
#75
Chrysene-d12
Concen: 20.00 ng
RT: 13.99 min Scan# 1041
Delta R.T. 0.02 min
Lab File: BF091599.D
Acq: 14 Dec 2016 22:08

Instrument :
BNA_F
ClientSampleId :
WC-1-0-5

Tot Ion:240 Resp: 372264
Ion Ratio Lower Upper
240 100
120 10.2 12.1 18.1#
236 27.1 21.0 31.6

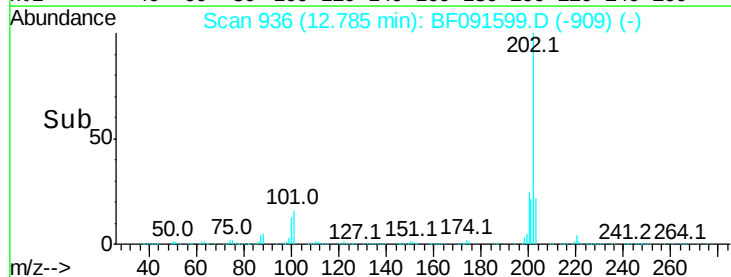
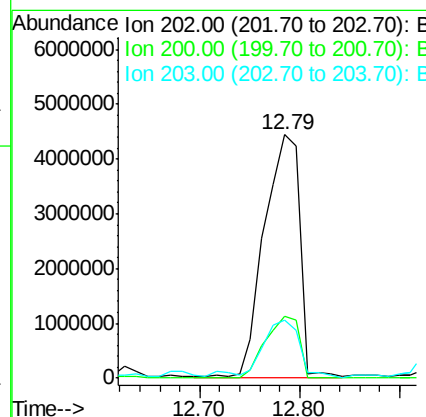
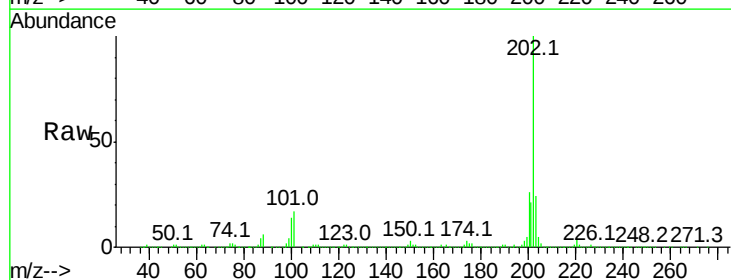
Manual Integrations
APPROVED

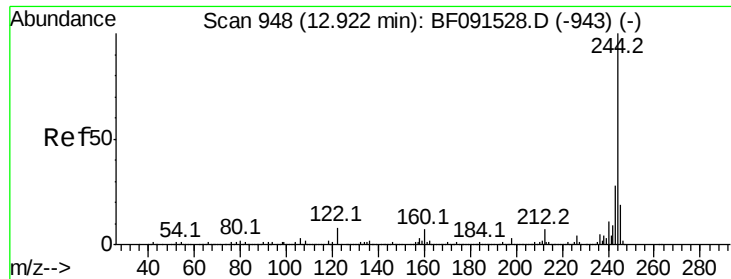
sohil
12/15/2016 5:40:41 PM



#77
Pyrene
Concen: 372.16 ng m
RT: 12.79 min Scan# 936
Delta R.T. 0.01 min
Lab File: BF091599.D
Acq: 14 Dec 2016 22:08

Tgt Ion:202 Resp:10991262
Ion Ratio Lower Upper
202 100
200 25.5 17.6 26.4
203 23.7 14.0 21.0#





#78

Terphenyl-d14

Concen: 87.35 ng

RT: 12.91 min Scan# 947

Delta R.T. -0.01 min

Lab File: BF091599.D

Acq: 14 Dec 2016 22:08

Instrument :

BNA_F

ClientSampleId :

WC-1-0-5

Tot Ion:244 Resp: 1433001

Ion Ratio Lower Upper

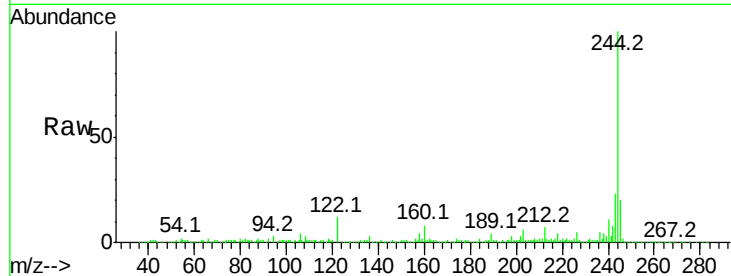
244 100

212 7.4 6.5 9.7

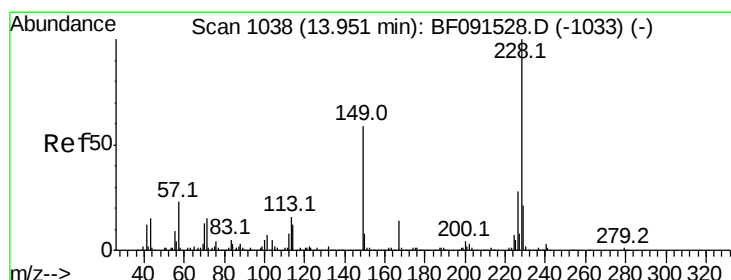
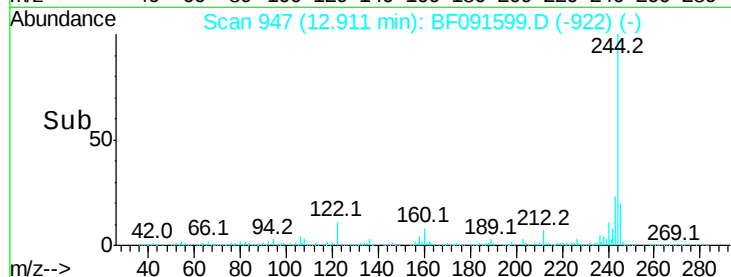
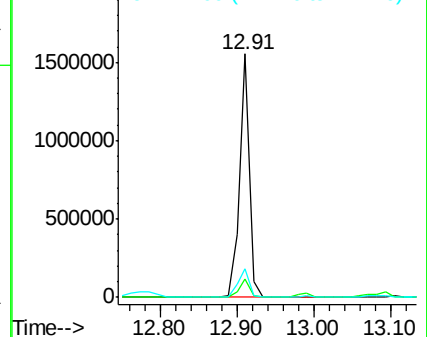
122 11.5 9.5 14.3

Manual Integrations
APPROVED

sohil
12/15/2016 5:40:41 PM



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: 327.47 ng

RT: 13.97 min Scan# 1040

Delta R.T. 0.02 min

Lab File: BF091599.D

Acq: 14 Dec 2016 22:08

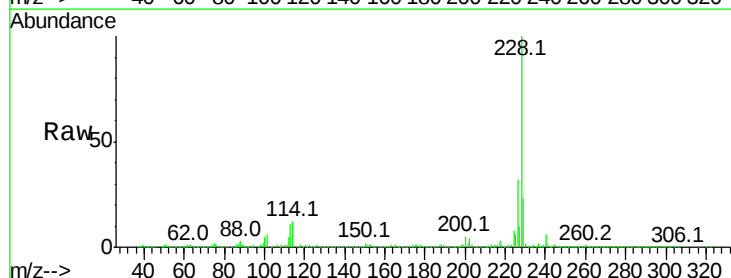
Tgt Ion:228 Resp: 7079571

Ion Ratio Lower Upper

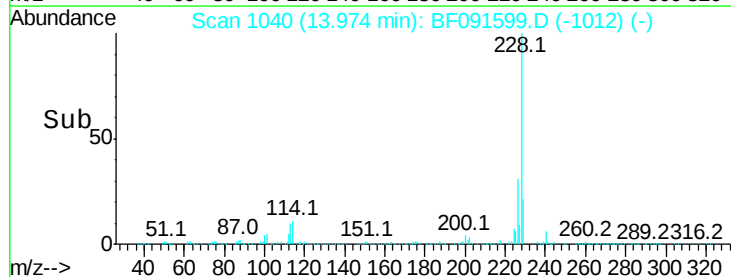
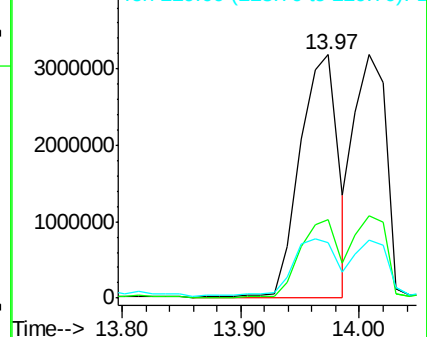
228 100

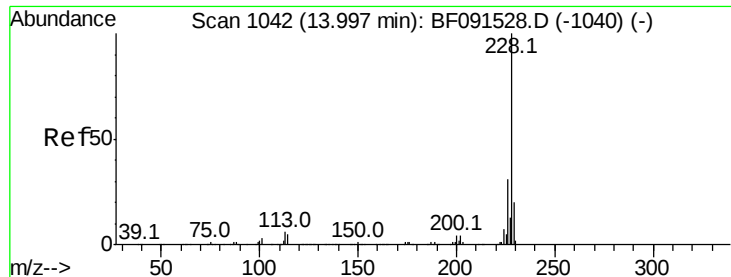
226 32.0 22.5 33.7

229 22.7 16.4 24.6



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: 258.12 ng

RT: 14.01 min Scan# 1043

Delta R.T. 0.01 min

Lab File: BF091599.D

Acq: 14 Dec 2016 22:08

Instrument :

BNA_F

ClientSampleId :

WC-1-0-5

Tot Ion:228 Resp: 5838301

Ion Ratio Lower Upper

228 100

226 33.9 25.0 37.4

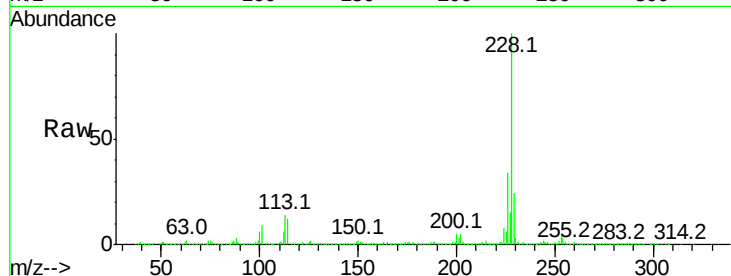
229 23.8 16.0 24.0

Manual Integrations

APPROVED

sohil

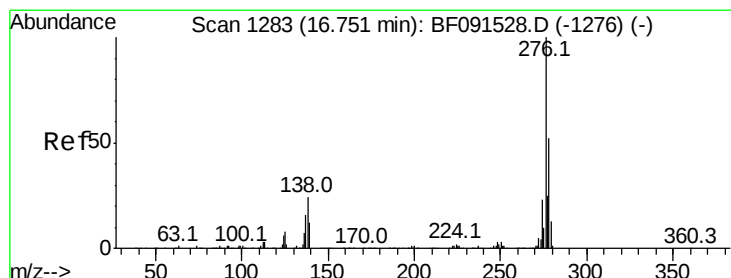
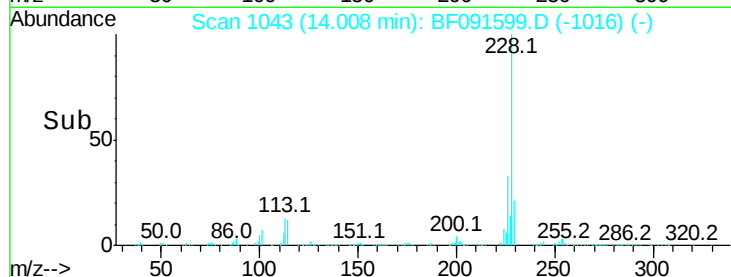
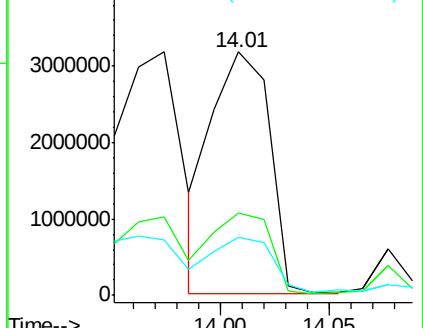
12/15/2016 5:40:41 PM



Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#85

Indeno(1,2,3-cd)pyrene

Concen: 233.92 ng

RT: 16.82 min Scan# 1289

Delta R.T. 0.07 min

Lab File: BF091599.D

Acq: 14 Dec 2016 22:08

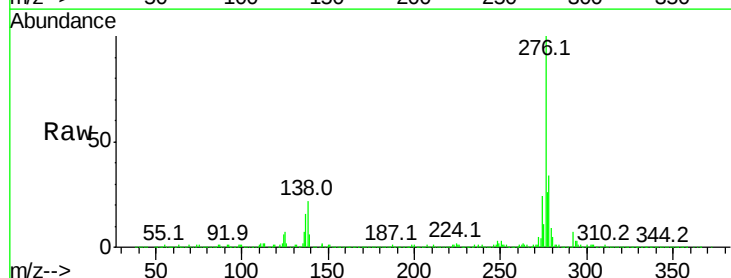
Tgt Ion:276 Resp: 4761245

Ion Ratio Lower Upper

276 100

138 24.4 21.0 31.4

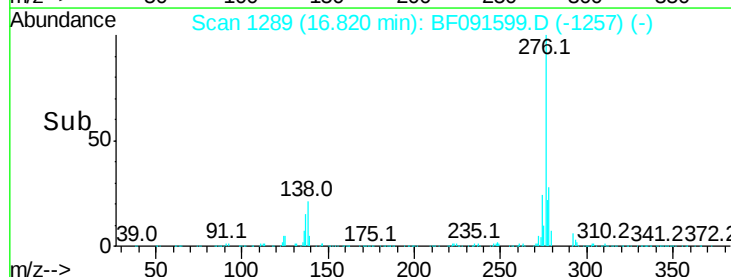
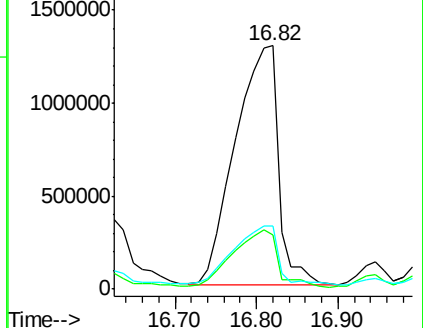
277 25.1 20.2 30.2

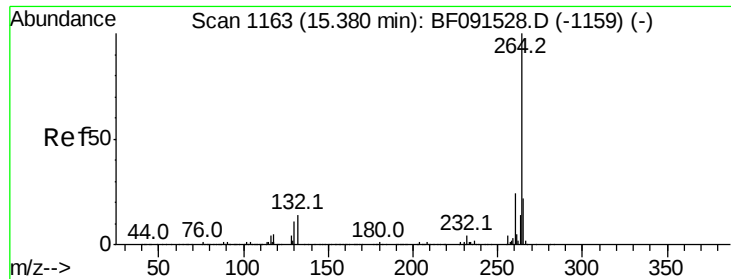


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E





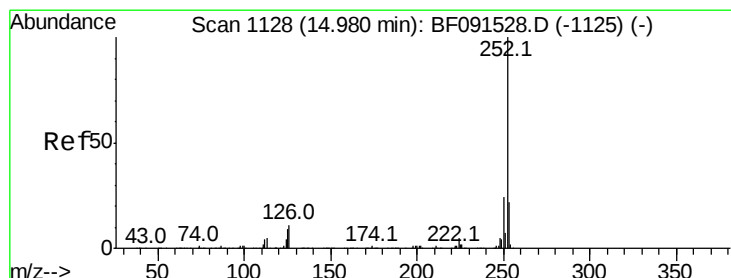
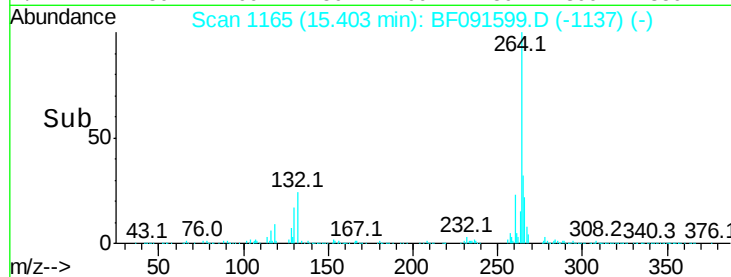
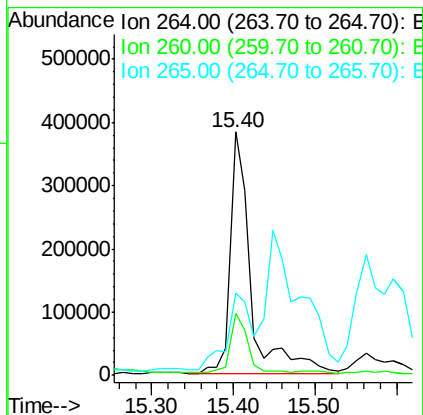
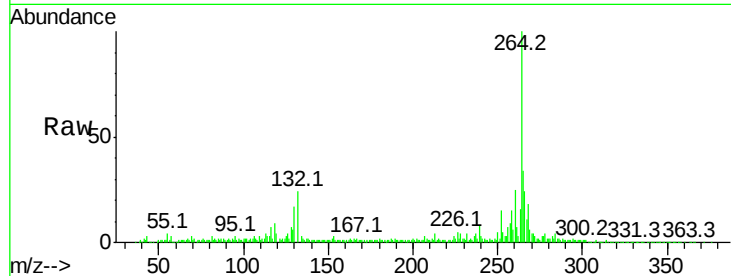
#86
Pervlene-d12
Concen: 20.00 ng
RT: 15.40 min Scan# 1165
Delta R.T. 0.02 min
Lab File: BF091599.D
Acq: 14 Dec 2016 22:08

Instrument :
BNA_F
ClientSampleId :
WC-1-0-5

Tot Ion	Ratio	Lower	Upper
264	100		
260	25.4	18.8	28.2
265	34.1	17.0	25.6

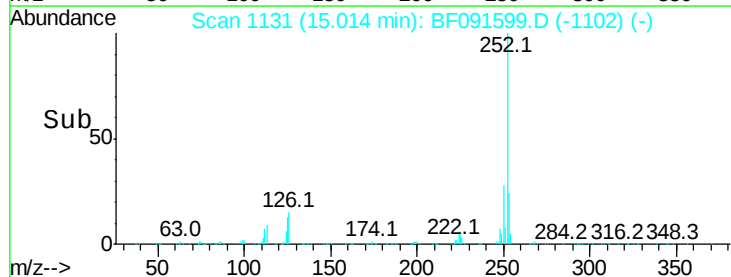
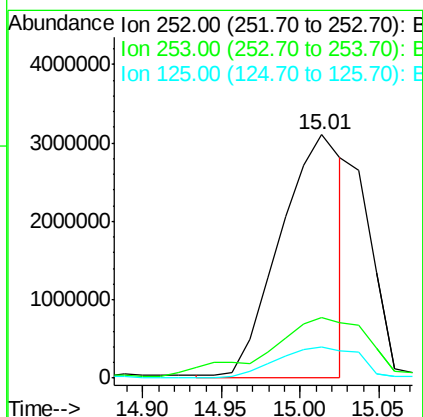
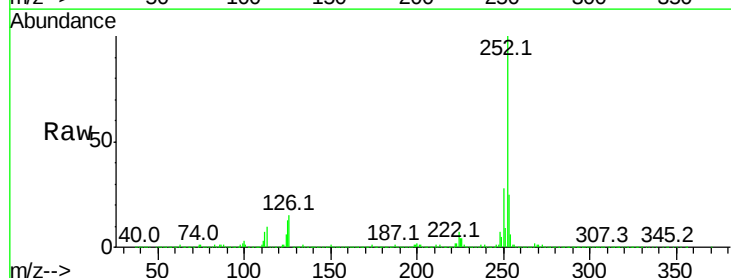
Manual Integrations
APPROVED

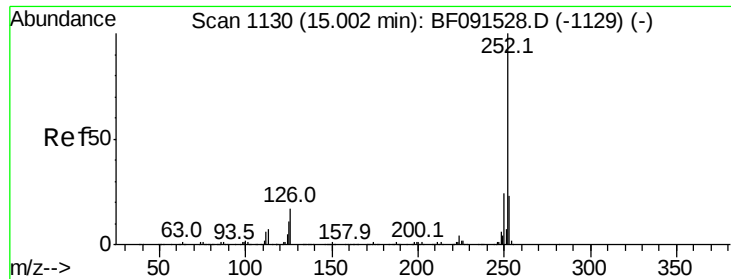
sohil
12/15/2016 5:40:41 PM



#87
Benzo(b)fluoranthene
Concen: 217.43 ng m
RT: 15.01 min Scan# 1131
Delta R.T. 0.03 min
Lab File: BF091599.D
Acq: 14 Dec 2016 22:08

Tgt Ion	Ratio	Lower	Upper
252	100		
253	24.8	18.2	27.2
125	12.9	8.6	13.0





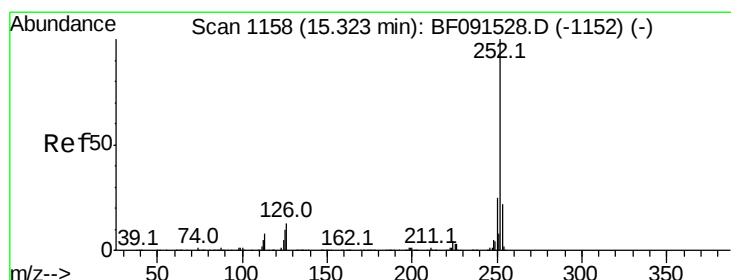
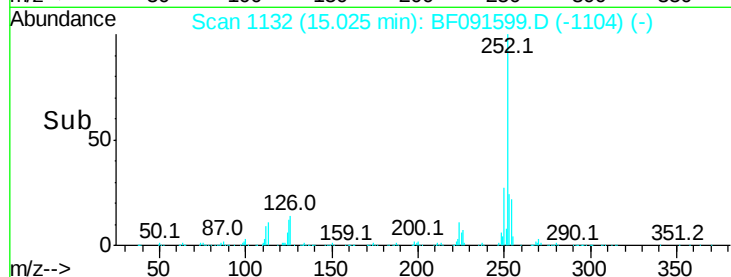
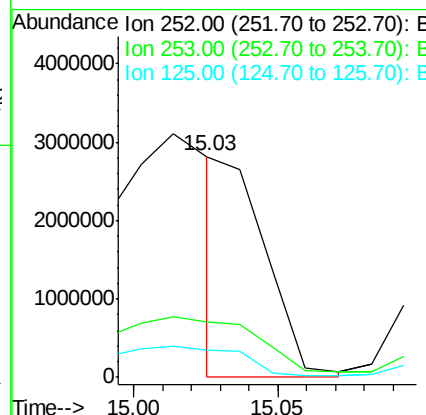
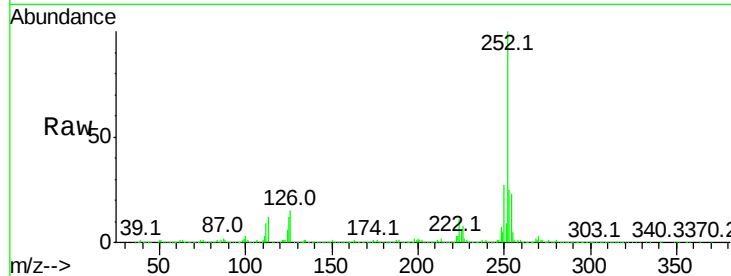
#88
Benzo(k)fluoranthene
Concen: 82.37 ng m
RT: 15.03 min Scan# 1132
Delta R.T. 0.02 min
Lab File: BF091599.D
Acq: 14 Dec 2016 22:08

Instrument :
BNA_F
ClientSampleId :
WC-1-0-5

Tot Ion:252 Resp: 2873967
Ion Ratio Lower Upper
252 100
253 24.9 17.8 26.8
125 12.2 9.6 14.4

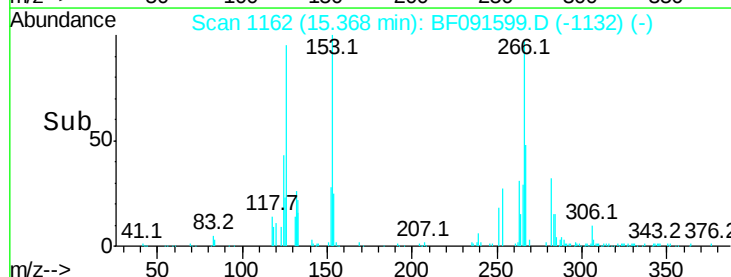
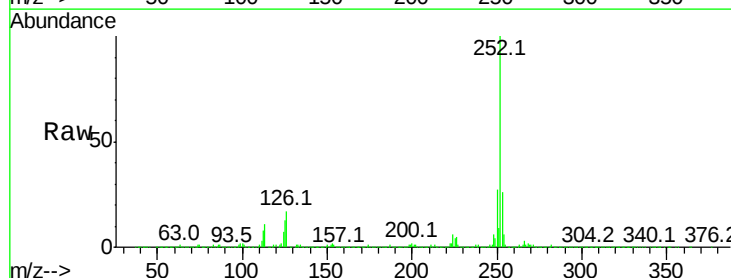
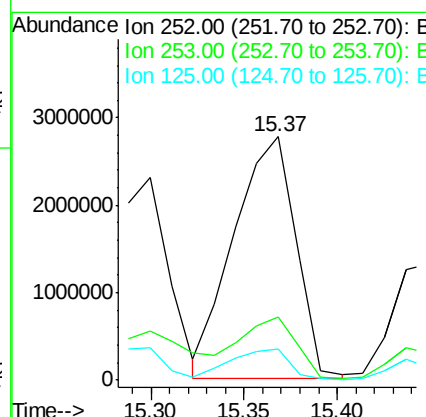
Manual Integrations
APPROVED

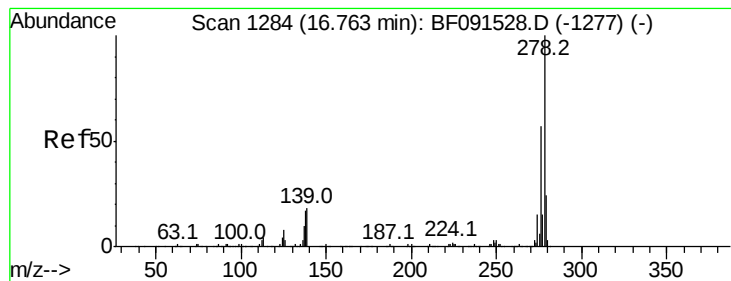
sohil
12/15/2016 5:40:41 PM



#89
Benzo(a)pyrene
Concen: 178.12 ng
RT: 15.37 min Scan# 1162
Delta R.T. 0.05 min
Lab File: BF091599.D
Acq: 14 Dec 2016 22:08

Tgt Ion:252 Resp: 6367893
Ion Ratio Lower Upper
252 100
253 25.8 18.2 27.4
125 12.8 10.4 15.6





#90

Dibenzo(a,h)anthracene

Concen: 40.65 ng m

RT: 16.81 min Scan# 1288

Delta R.T. 0.05 min

Lab File: BF091599.D

Acq: 14 Dec 2016 22:08

Instrument :

BNA_F

ClientSampleId :

WC-1-0-5

Tot Ion:278 Resp: 1301941

Ion Ratio Lower Upper

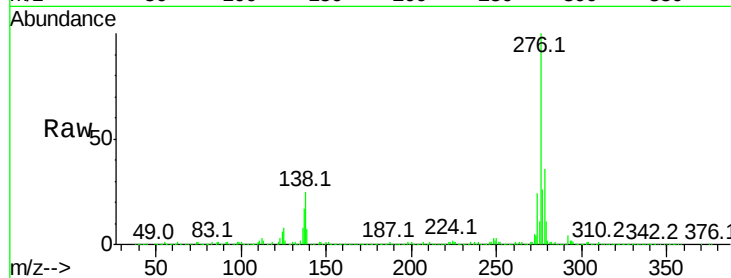
278 100

139 19.5 15.1 22.7

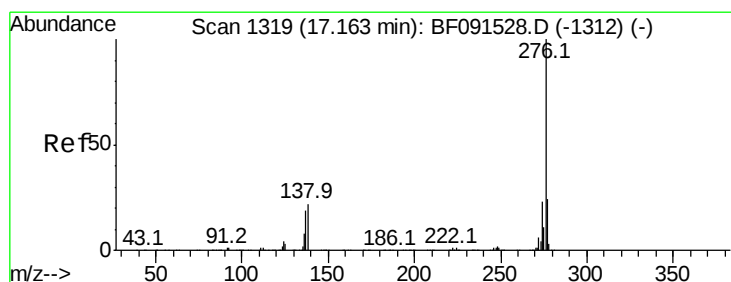
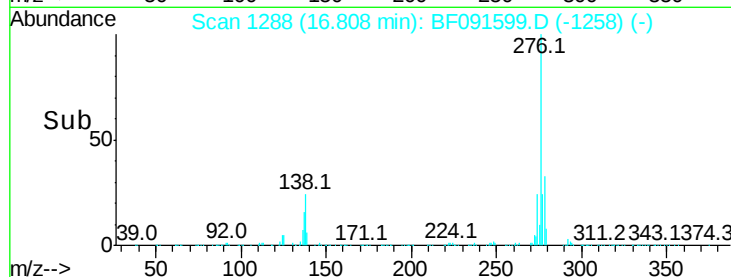
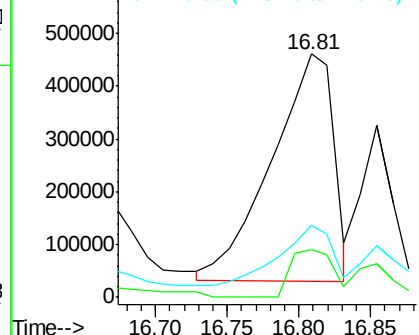
279 29.8 19.0 28.6#

Manual Integrations
APPROVED

sohil
12/15/2016 5:40:41 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: 134.85 ng

RT: 17.23 min Scan# 1325

Delta R.T. 0.07 min

Lab File: BF091599.D

Acq: 14 Dec 2016 22:08

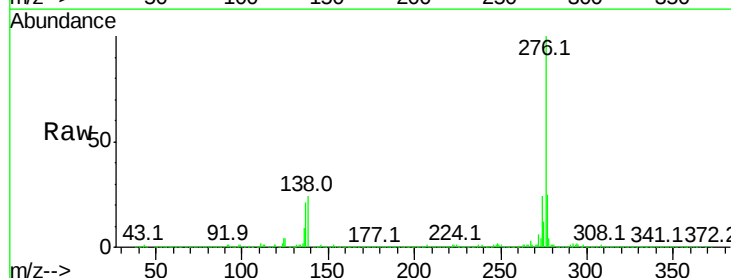
Tgt Ion:276 Resp: 4395393

Ion Ratio Lower Upper

276 100

277 25.0 19.0 28.4

138 24.3 15.4 23.0#



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

