

Data Path : \\74.0.250.170\SV0ASRV\HPCHEM1\BNA F\DATA\BF120117\
 Data File : BF101064.D
 Acq On : 1 Dec 2017 15:44
 Operator : SJ/JU
 Sample : I6289-09DL 50X
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SU-03-112917DL

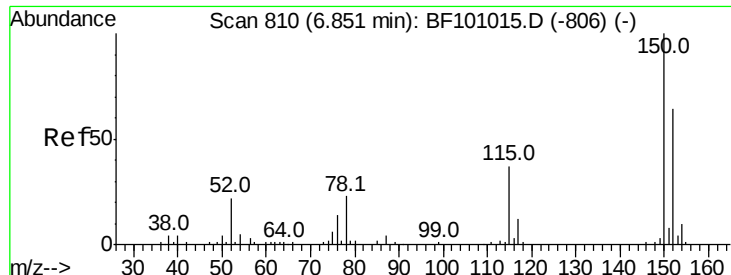
Manual Integrations
 APPROVED

Sohil
 12/4/2017 11:56:38 AM

Quant Time: Dec 04 00:26:26 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF113017.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Dec 01 15:52:19 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.85	152	43548	20.00	ng	0.00
21) Naphthalene-d8	8.13	136	172502	20.00	ng	0.00
38) Acenaphthene-d10	9.89	164	78581	20.00	ng	0.00
63) Phenanthrene-d10	11.37	188	138341	20.00	ng	0.00
75) Chrysene-d12	14.02	240	92216	20.00	ng	0.00
86) Perylene-d12	15.49	264	109077	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.46	112	5586	2.12	ng	0.00
7) Phenol-d6	6.47	99	8594	2.69	ng	0.00
23) Nitrobenzene-d5	7.40	82	5588	1.93	ng	-0.01
41) 2,4,6-Tribromophenol	10.67	330	1900	2.01	ng	0.00
44) 2-Fluorobiphenyl	9.20	172	15352	2.67	ng	-0.01
78) Terphenyl-d14	12.95	244	11589	2.75	ng	-0.01
Target Compounds						
31) Naphthalene	8.15	128	31599	3.717	ng	99
37) 2-Methylnaphthalene	8.84	142	22517	3.898	ng	99
51) Acenaphthene	9.92	154	48081	9.556	ng	96
54) Dibenzofuran	10.09	168	70819	9.767	ng	99
57) Fluorene	10.43	166	98399	16.694	ng	99
70) Phenanthrene	11.40	178	586457	76.979	ng	99
71) Anthracene	11.45	178	158968	20.617	ng	99
72) Carbazole	11.60	167	33562	4.764	ng	# 96
74) Fluoranthene	12.59	202	420333	49.774	ng	95
77) Pyrene	12.82	202	337693	53.070	ng	99
80) Benzo(a)anthracene	14.00	228	138993	23.872	ng	99
82) Chrysene	14.04	228	108116m	19.994	ng	
85) Indeno(1,2,3-cd)pyrene	16.96	276	52287	10.876	ng	# 90
87) Benzo(b)fluoranthene	15.06	252	138386m	21.181	ng	
88) Benzo(k)fluoranthene	15.08	252	45300m	7.038	ng	
89) Benzo(a)pyrene	15.43	252	108082m	18.197	ng	
90) Dibenzo(a,h)anthracene	16.96	278	14312m	2.733	ng	
91) Benzo(g,h,i)perylene	17.40	276	48910	9.911	ng	# 91

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



#1

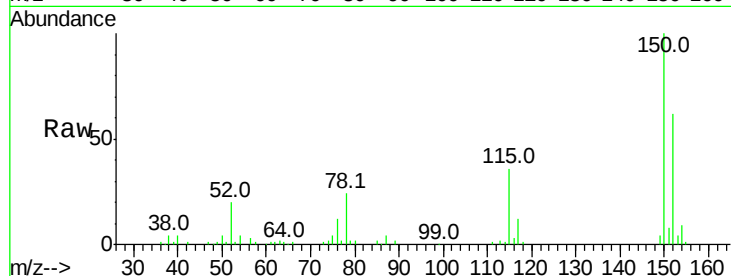
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.85 min Scan# 809
Delta R.T. 0.00 min
Lab File: BF101064.D
Acq: 1 Dec 2017 15:44

Instrument :
BNA_F
ClientSampleId :
SU-03-112917DL

Tot Ion	Ratio	Lower	Upper
152	100		
150	160.9	124.6	186.8
115	58.5	50.1	75.1

Manual Integrations
APPROVED

Sohil
12/4/2017 11:56:38 AM

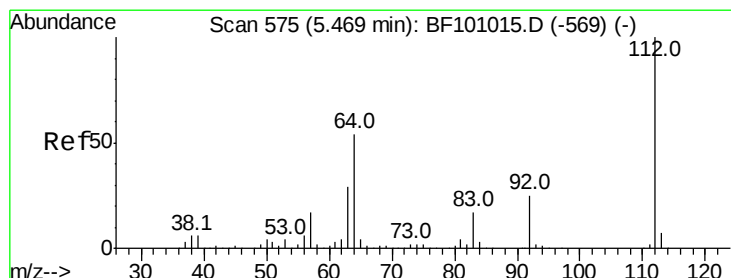
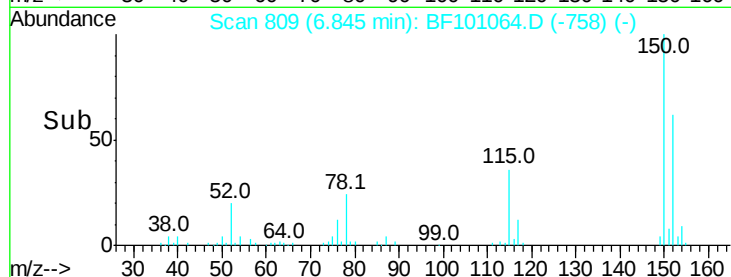
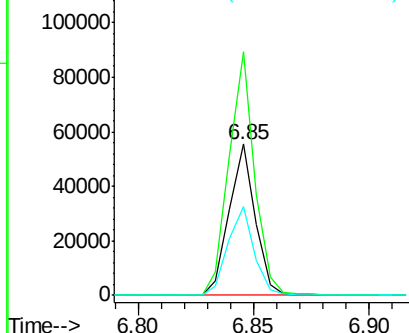


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

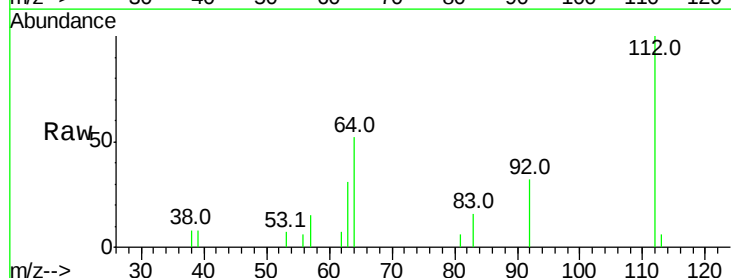
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol
Concen: 2.120 ng
RT: 5.46 min Scan# 574
Delta R.T. 0.00 min
Lab File: BF101064.D
Acq: 1 Dec 2017 15:44

Tgt Ion	Ratio	Lower	Upper
112	100		
64	51.7	47.9	71.9
63	30.6	23.7	35.5

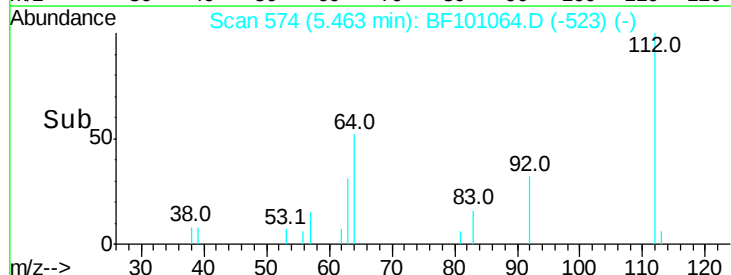
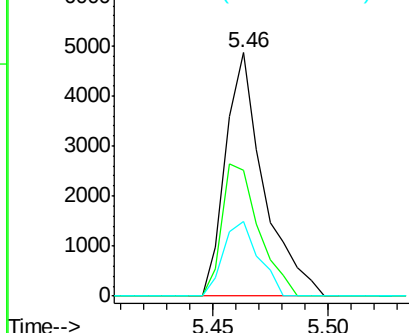


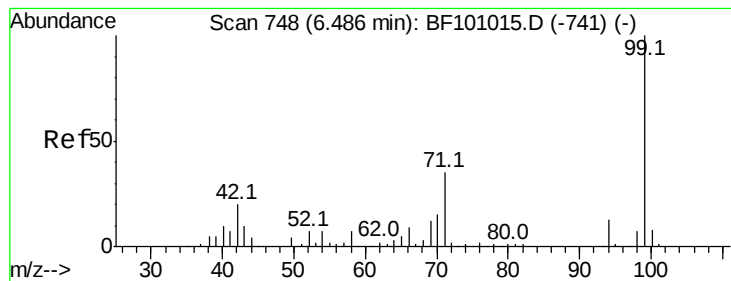
Abundance

Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF1

Ion 63.00 (62.70 to 63.70): BF1





#7

Phenol-d6

Concen: 2.686 ng

RT: 6.47 min Scan# 746

Delta R.T. -0.01 min

Lab File: BF101064.D

Acq: 1 Dec 2017 15:44

Instrument :

BNA_F

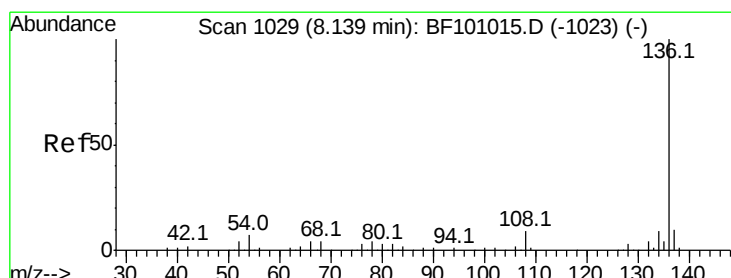
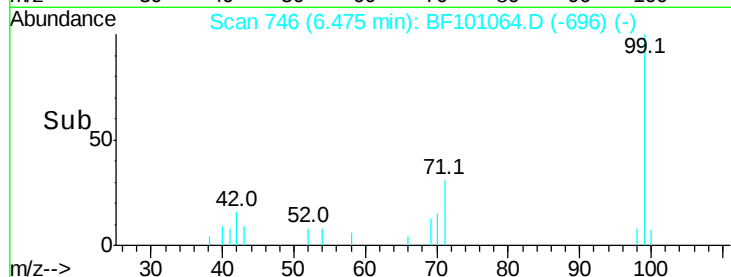
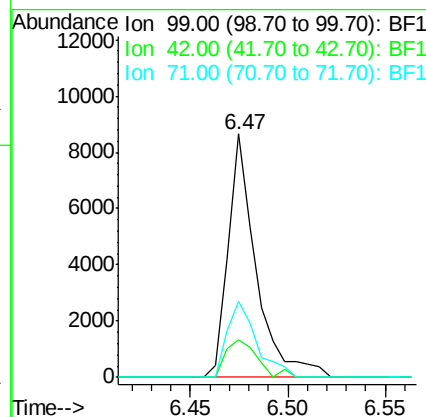
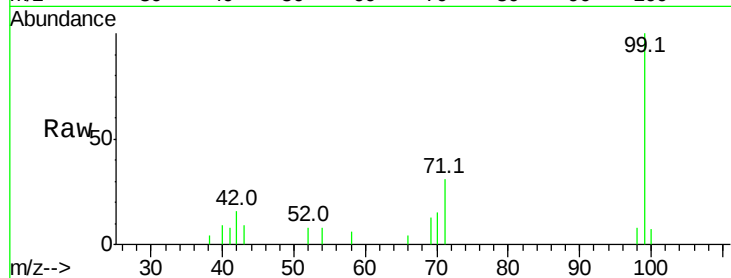
ClientSampleId :

SU-03-112917DL

Tot Ion:	99	Resp:	8594
Ion Ratio	Lower	Upper	
99	100		
42	15.6	14.5	21.7
71	31.3	25.4	38.0

Manual Integrations
APPROVED

Sohil
12/4/2017 11:56:38 AM



#21

Naphthalene-d8

Concen: 20.000 ng

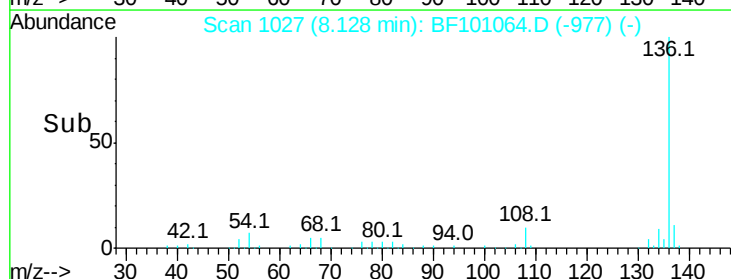
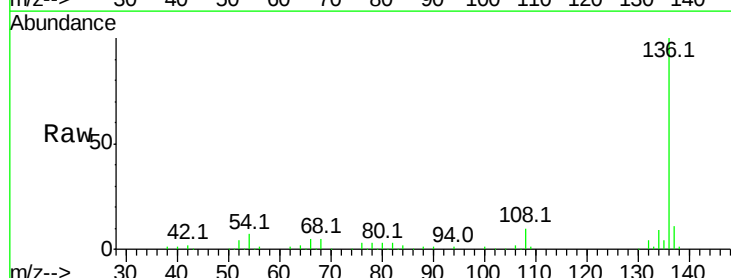
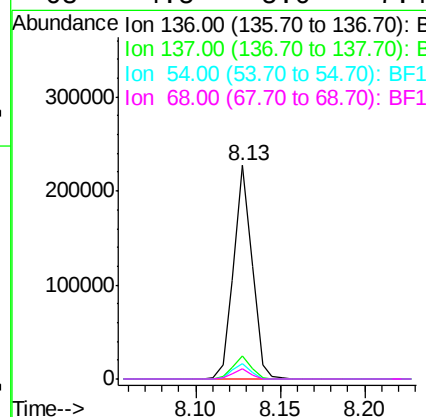
RT: 8.13 min Scan# 1027

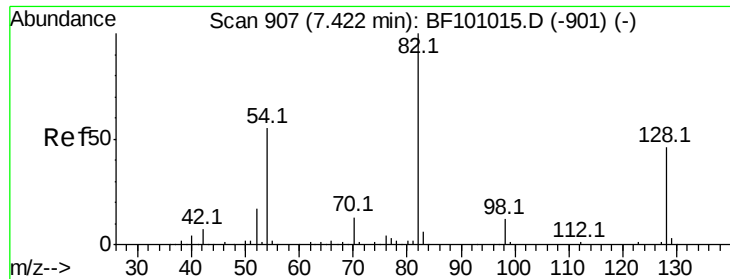
Delta R.T. -0.01 min

Lab File: BF101064.D

Acq: 1 Dec 2017 15:44

Tgt Ion:	136	Resp:	172502
Ion Ratio	Lower	Upper	
136	100		
137	10.6	8.9	13.3
54	6.9	6.6	9.8
68	4.5	5.0	7.4#





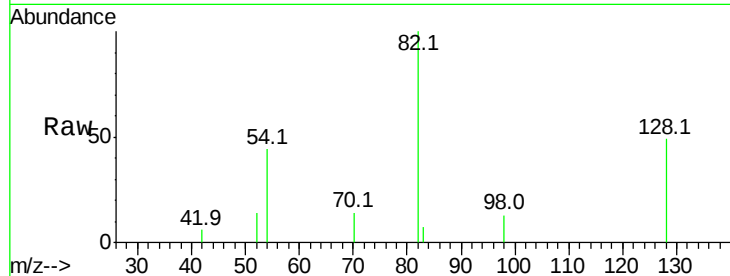
#23
 Nitrobenzene-d5
 Concen: 1.932 ng
 RT: 7.40 min Scan# 904
 Delta R.T. -0.01 min
 Lab File: BF101064.D
 Acq: 1 Dec 2017 15:44

Instrument :
 BNA_F
 ClientSampleId :
 SU-03-112917DL

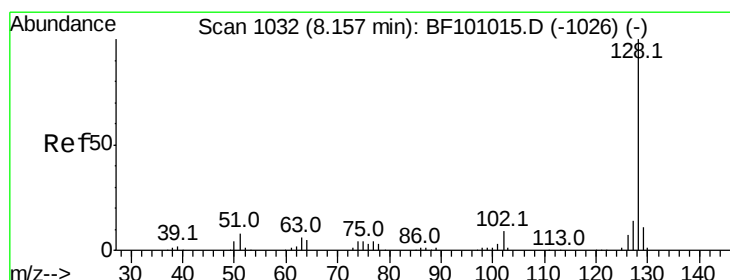
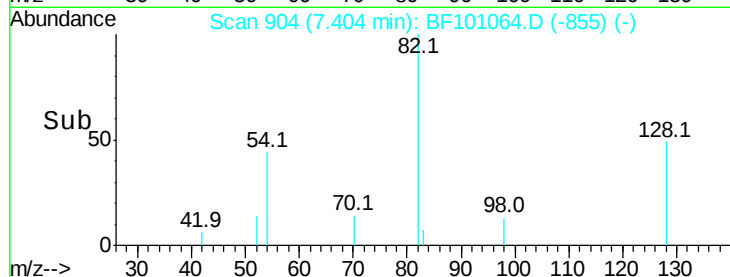
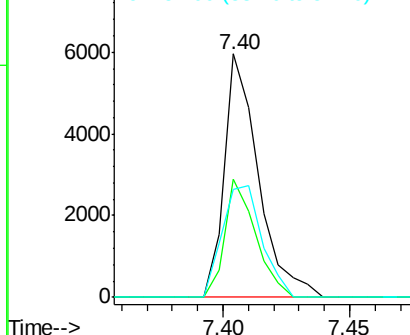
Tot Ion	Ratio	Lower	Upper
82	100		
128	48.6	36.1	54.1
54	44.3	41.4	62.2

Manual Integrations
 APPROVED

Sohil
 12/4/2017 11:56:38 AM



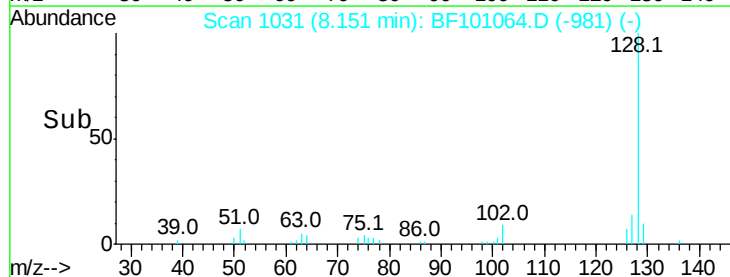
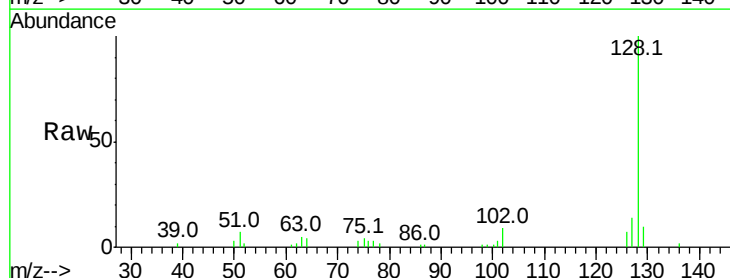
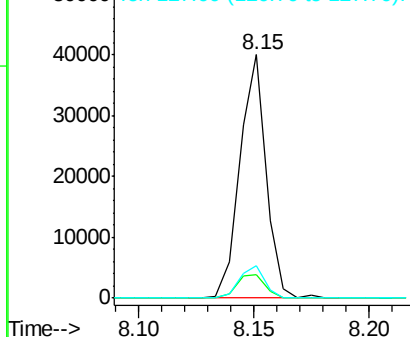
Abundance Ion 82.00 (81.70 to 82.70): BF1
 Ion 128.00 (127.70 to 128.70): E
 Ion 54.00 (53.70 to 54.70): BF1

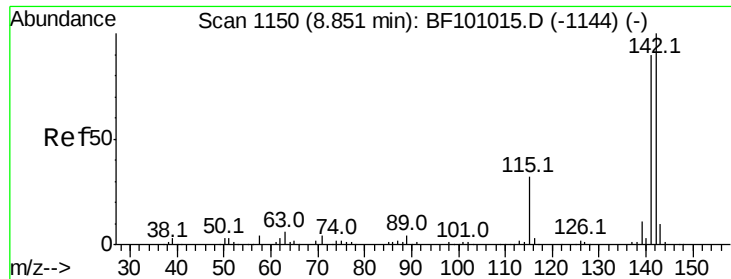


#31
 Naphthalene
 Concen: 3.717 ng
 RT: 8.15 min Scan# 1031
 Delta R.T. -0.01 min
 Lab File: BF101064.D
 Acq: 1 Dec 2017 15:44

Tgt Ion	Ratio	Lower	Upper
128	100		
129	9.8	8.8	13.2
127	13.6	10.9	16.3

Abundance Ion 128.00 (127.70 to 128.70): E
 Ion 129.00 (128.70 to 129.70): E
 Ion 127.00 (126.70 to 127.70): E





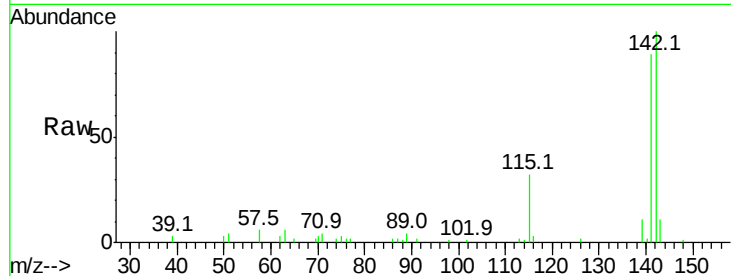
#37
2-Methylnaphthalene
Concen: 3.898 ng
RT: 8.84 min Scan# 1148
Delta R.T. -0.01 min
Lab File: BF101064.D
Acq: 1 Dec 2017 15:44

Instrument :
BNA_F
ClientSampleId :
SU-03-112917DL

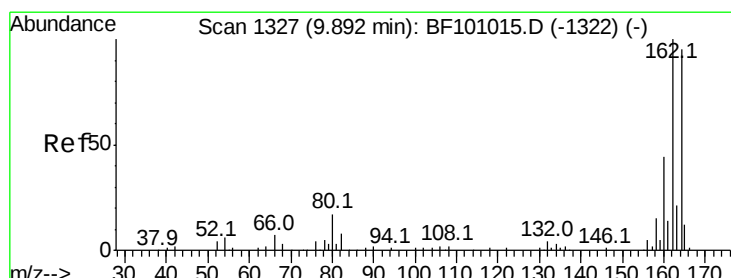
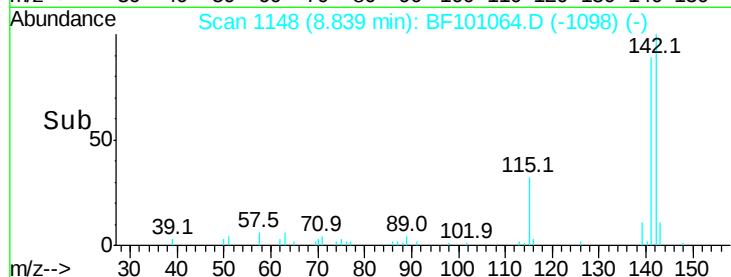
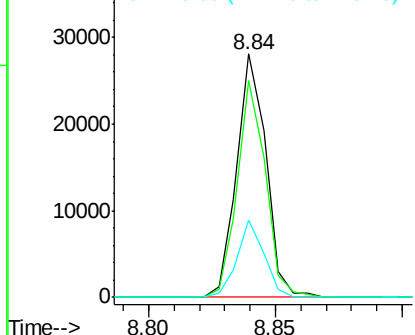
Tot Ion	Ratio	Lower	Upper
142	100		
141	88.9	70.8	106.2
115	31.6	26.1	39.1

Manual Integrations
APPROVED

Sohil
12/4/2017 11:56:38 AM



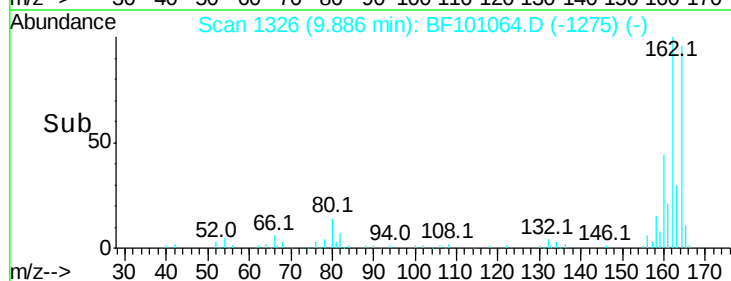
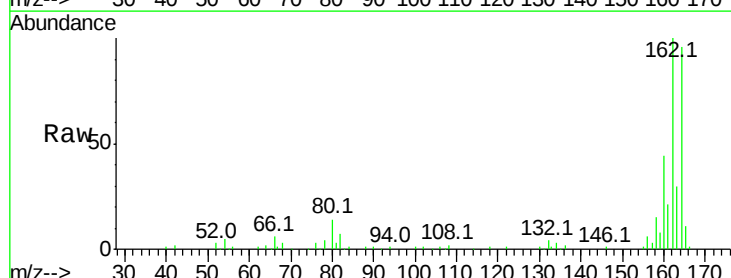
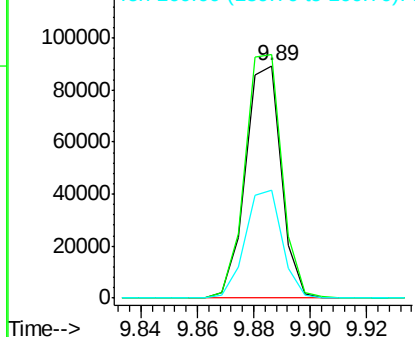
Abundance Ion 142.00 (141.70 to 142.70): E
Ion 141.00 (140.70 to 141.70): E
Ion 115.00 (114.70 to 115.70): E



#38
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.89 min Scan# 1326
Delta R.T. 0.00 min
Lab File: BF101064.D
Acq: 1 Dec 2017 15:44

Tgt Ion	Ratio	Lower	Upper
164	100		
162	104.6	86.1	129.1
160	46.5	38.3	57.5

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





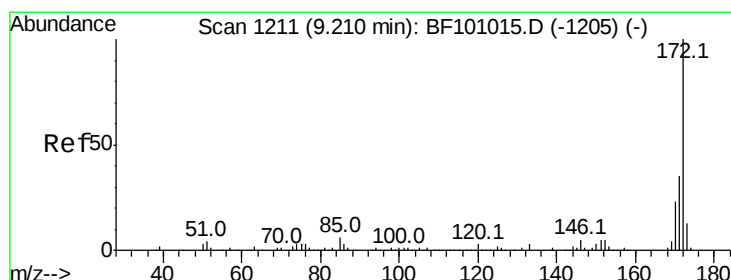
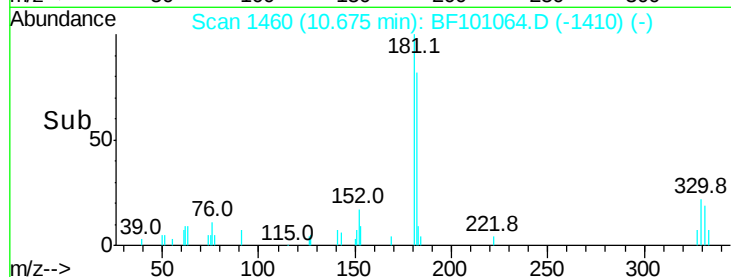
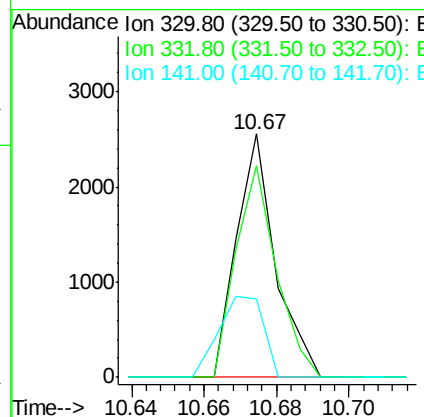
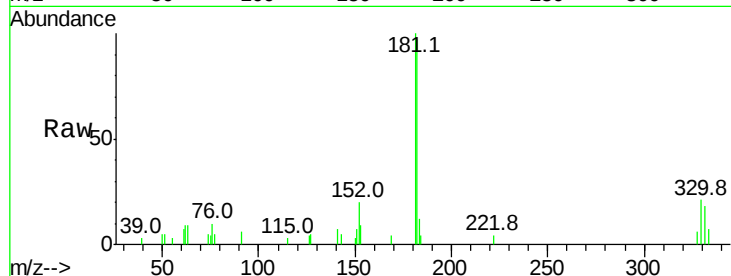
#41
 2,4,6-Tribromophenol
 Concen: 2.013 ng
 RT: 10.67 min Scan# 1460
 Delta R.T. -0.01 min
 Lab File: BF101064.D
 Acq: 1 Dec 2017 15:44

Instrument :
 BNA_F
 ClientSampleId :
 SU-03-112917DL

Tot Ion	Ratio	Lower	Upper
330	100		
332	90.7	77.0	115.6
141	38.3	29.9	44.9

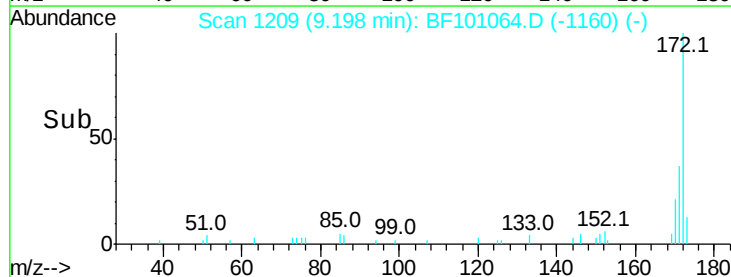
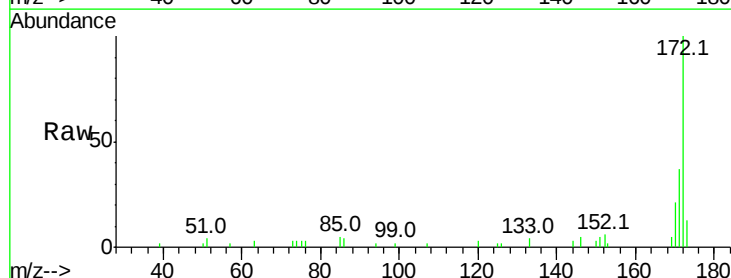
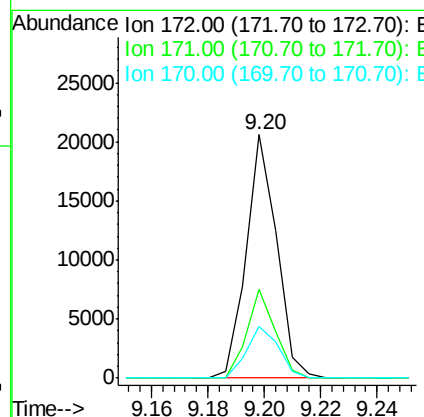
Manual Integrations
 APPROVED

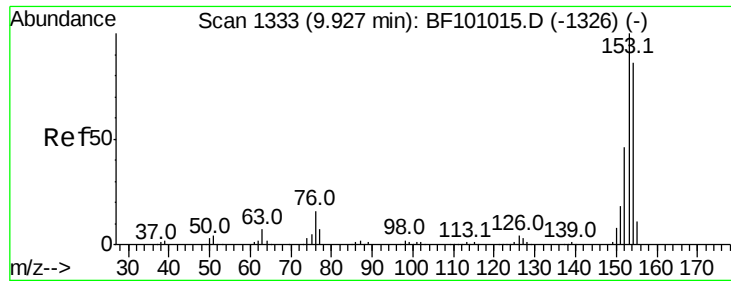
Sohil
 12/4/2017 11:56:38 AM



#44
 2-Fluorobiphenyl
 Concen: 2.673 ng
 RT: 9.20 min Scan# 1209
 Delta R.T. -0.01 min
 Lab File: BF101064.D
 Acq: 1 Dec 2017 15:44

Tgt Ion	Ratio	Lower	Upper
172	100		
171	36.6	29.7	44.5
170	21.0	19.6	29.4





#51

Acenaphthene

Concen: 9.556 ng

RT: 9.92 min Scan# 1331

Delta R.T. -0.01 min

Lab File: BF101064.D

Acq: 1 Dec 2017 15:44

Instrument :

BNA_F

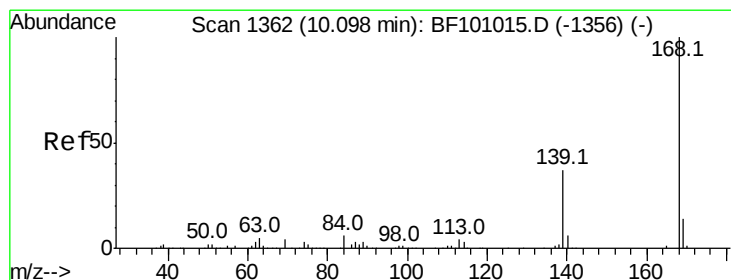
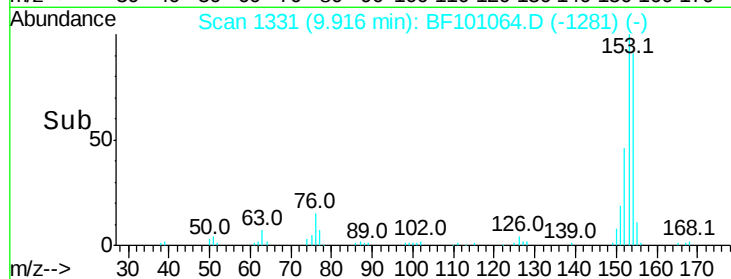
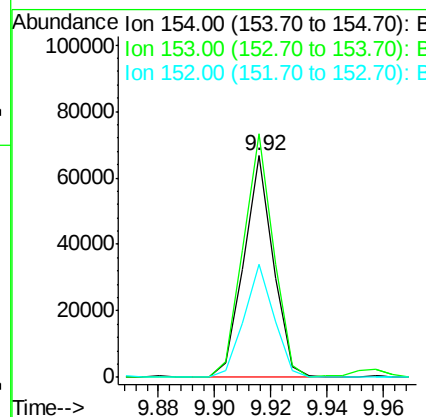
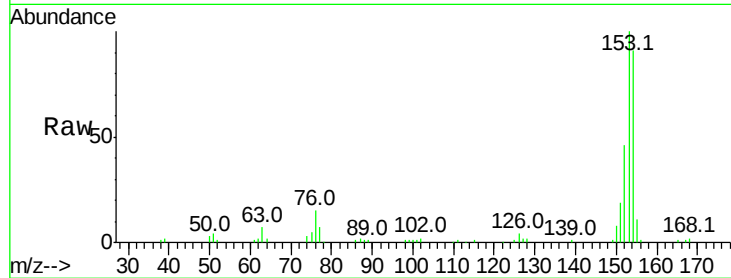
ClientSampleId :

SU-03-112917DL

Tot Ion:	154	Resp:	48081
Ion Ratio	Lower	Upper	
154	100		
153	110.0	91.2	136.8
152	51.0	43.8	65.8

Manual Integrations
APPROVED

Sohil
12/4/2017 11:56:38 AM



#54

Dibenzofuran

Concen: 9.767 ng

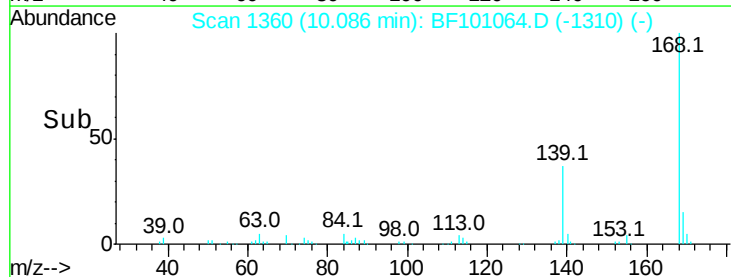
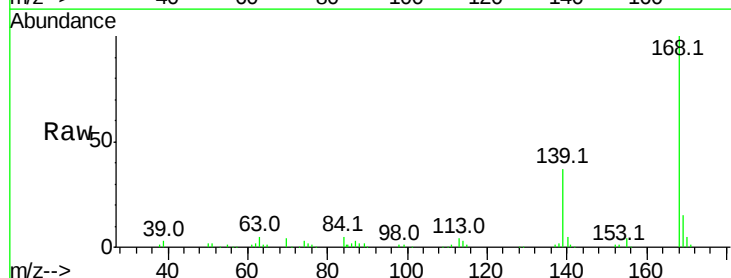
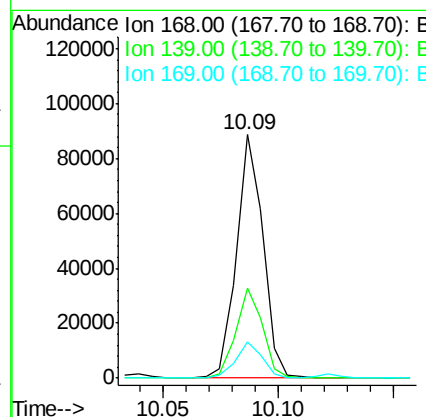
RT: 10.09 min Scan# 1360

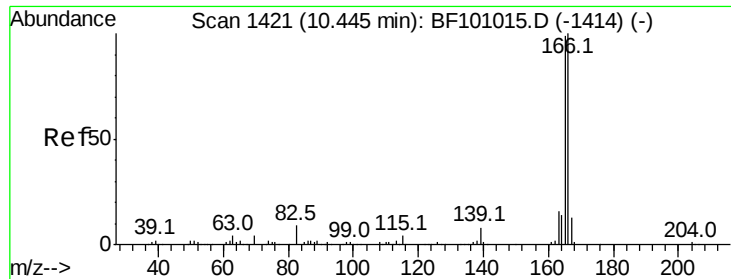
Delta R.T. -0.01 min

Lab File: BF101064.D

Acq: 1 Dec 2017 15:44

Tgt Ion:	168	Resp:	70819
Ion Ratio	Lower	Upper	
168	100		
139	37.1	30.1	45.1
169	14.6	10.9	16.3





#57

Fluorene

Concen: 16.694 ng

RT: 10.43 min Scan# 1419

Delta R.T. -0.01 min

Lab File: BF101064.D

Acq: 1 Dec 2017 15:44

Instrument :

BNA_F

ClientSampleId :

SU-03-112917DL

Tot Ion:166 Resp: 98399

Ion Ratio Lower Upper

166 100

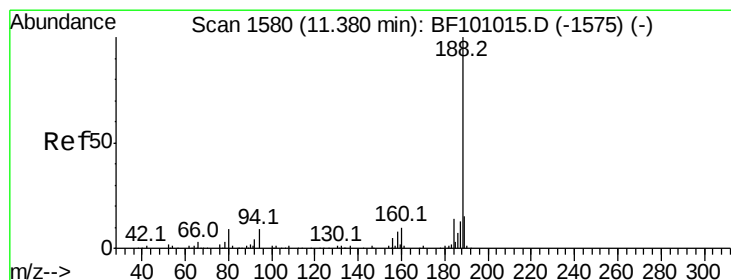
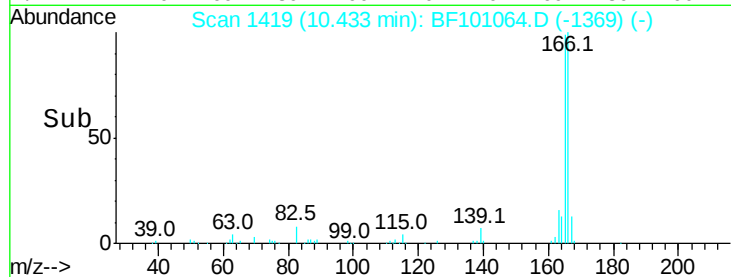
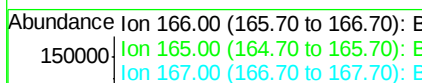
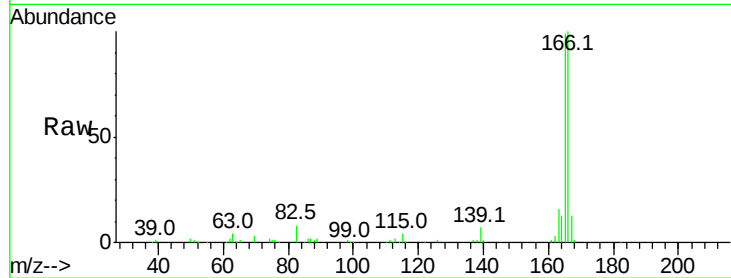
165 98.7 79.8 119.8

167 12.8 10.6 16.0

Manual Integrations
APPROVED

Sohil

12/4/2017 11:56:38 AM



#63

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.37 min Scan# 1579

Delta R.T. 0.00 min

Lab File: BF101064.D

Acq: 1 Dec 2017 15:44

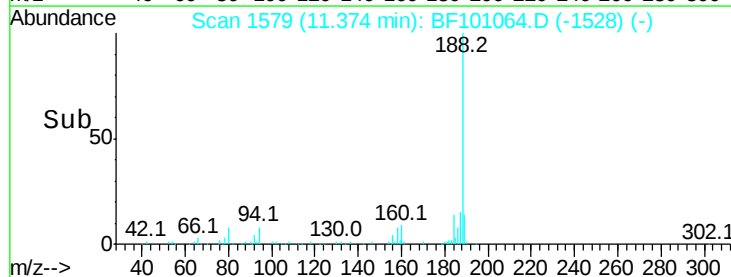
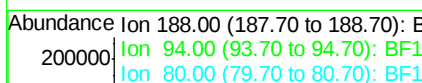
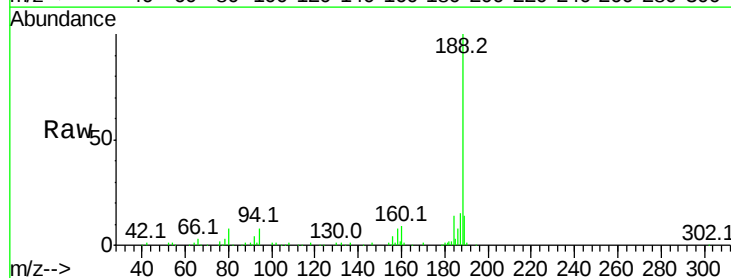
Tgt Ion:188 Resp: 138341

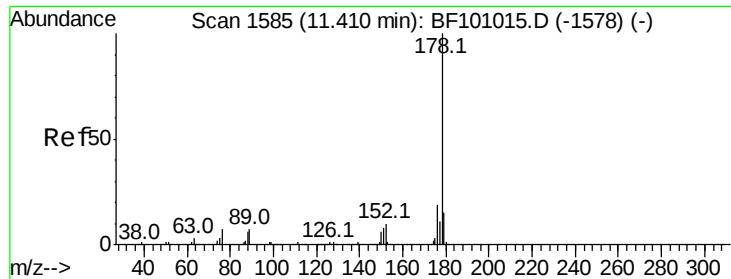
Ion Ratio Lower Upper

188 100

94 7.5 8.5 12.7#

80 8.1 9.2 13.8#





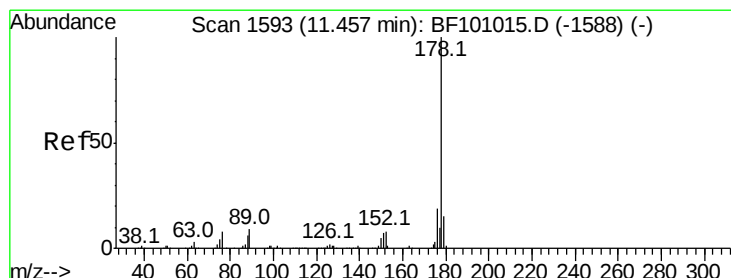
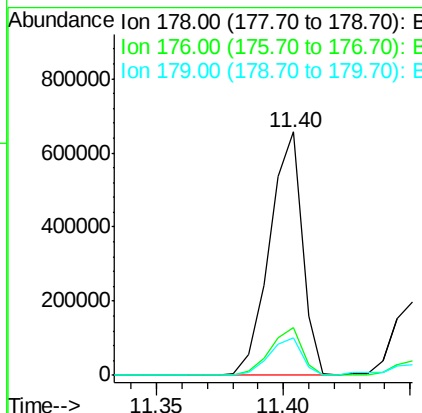
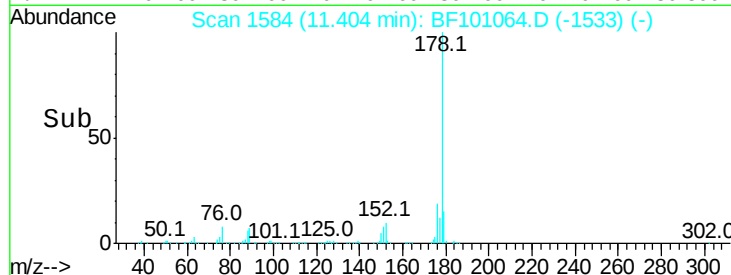
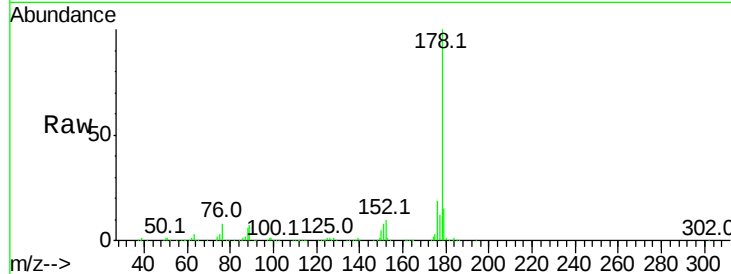
#70
Phenanthrene
Concen: 76.979 ng
RT: 11.40 min Scan# 1584
Delta R.T. 0.00 min
Lab File: BF101064.D
Acq: 1 Dec 2017 15:44

Instrument :
BNA_F
ClientSampleId :
SU-03-112917DL

Tot Ion	Ratio	Lower	Upper
178	100		
176	19.4	15.8	23.8
179	15.5	13.0	19.6

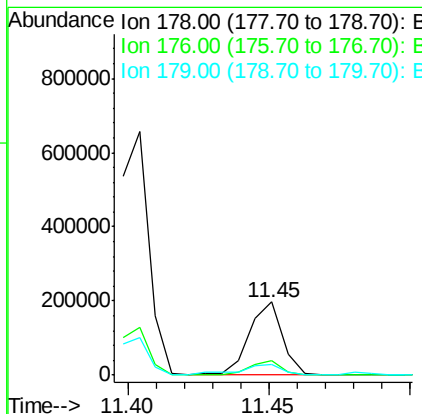
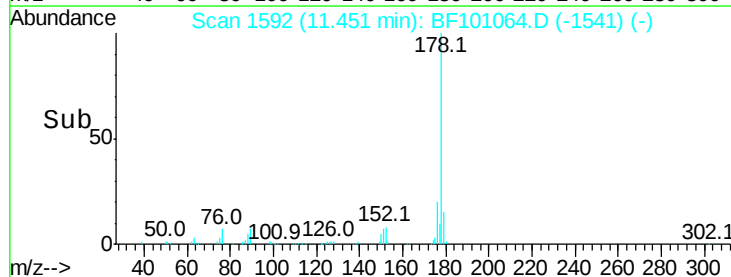
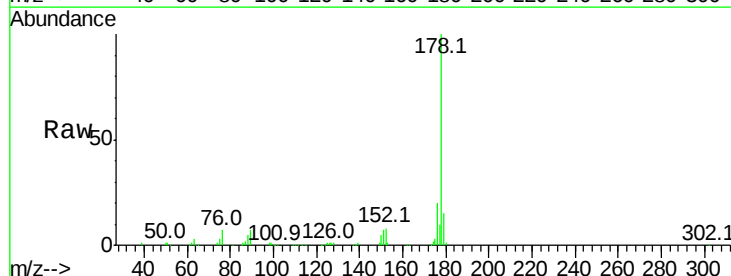
Manual Integrations
APPROVED

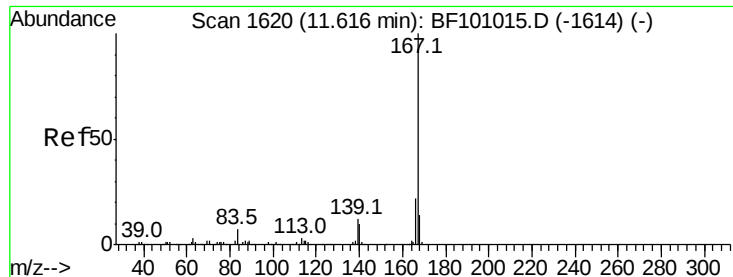
Sohil
12/4/2017 11:56:38 AM



#71
Anthracene
Concen: 20.617 ng
RT: 11.45 min Scan# 1592
Delta R.T. 0.00 min
Lab File: BF101064.D
Acq: 1 Dec 2017 15:44

Tgt Ion	Ratio	Lower	Upper
178	100		
176	19.6	15.4	23.2
179	15.3	12.6	19.0





#72

Carbazole

Concen: 4.764 ng

RT: 11.60 min Scan# 1618

Delta R.T. -0.01 min

Lab File: BF101064.D

Acq: 1 Dec 2017 15:44

Instrument :

BNA_F

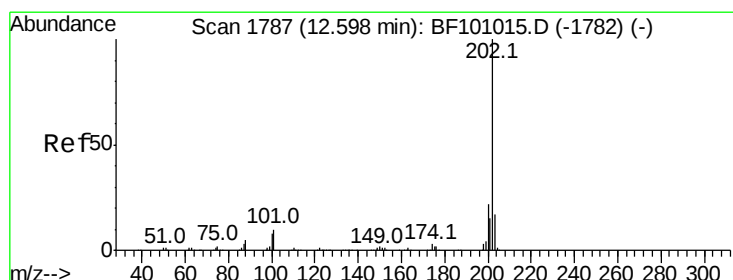
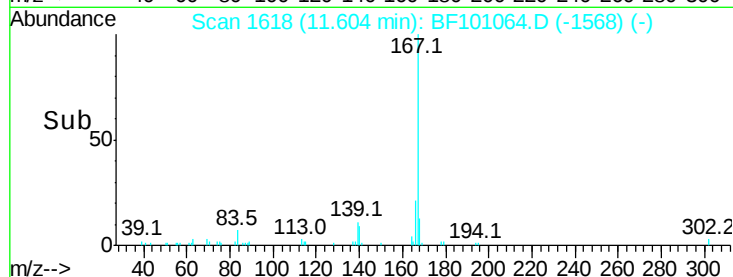
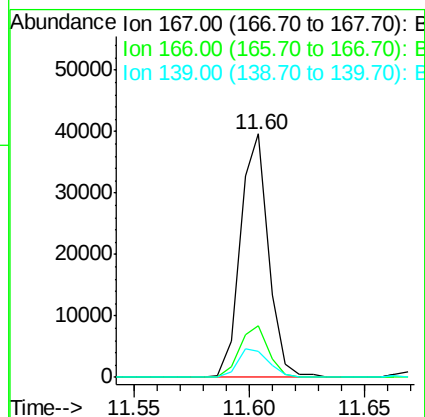
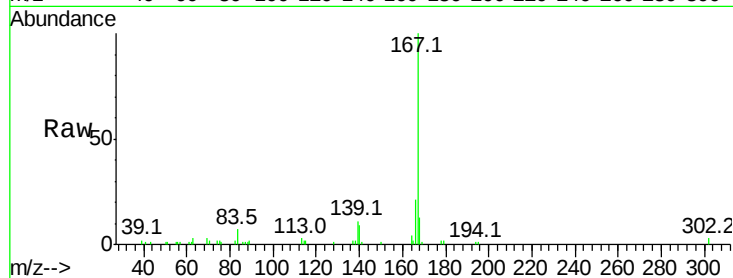
ClientSampleId :

SU-03-112917DL

Tot Ion:	167	Resp:	33562
Ion Ratio	Lower	Upper	
167	100		
166	21.3	17.6	26.4
139	10.8	10.9	16.3#

Manual Integrations
APPROVED

Sohil
12/4/2017 11:56:38 AM



#74

Fluoranthene

Concen: 49.774 ng

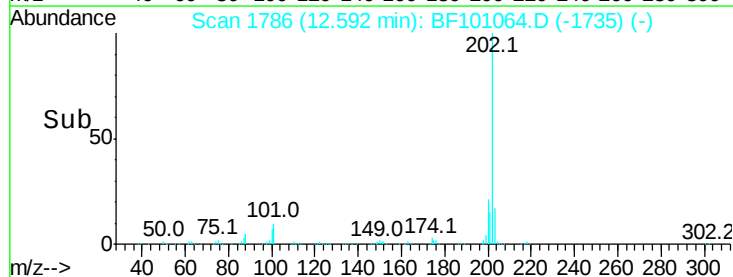
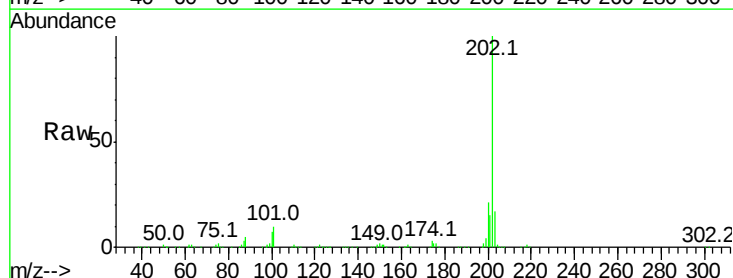
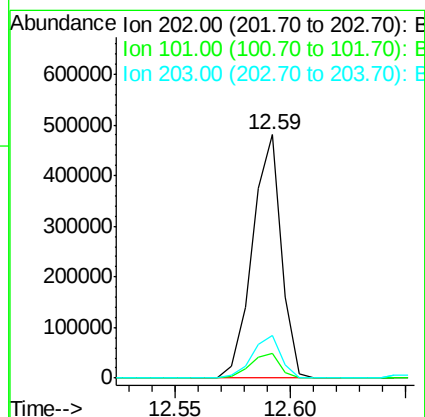
RT: 12.59 min Scan# 1786

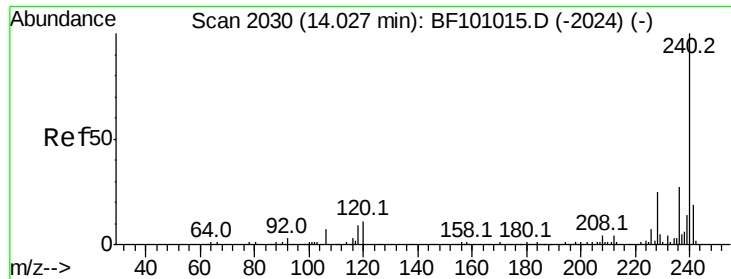
Delta R.T. 0.00 min

Lab File: BF101064.D

Acq: 1 Dec 2017 15:44

Tgt Ion:	202	Resp:	420333
Ion Ratio	Lower	Upper	
202	100		
101	10.0	0.0	34.1
203	17.3	0.0	38.1





#75

Chrysene-d12

Concen: 20.000 ng

RT: 14.02 min Scan# 2028

Delta R.T. -0.01 min

Lab File: BF101064.D

Acq: 1 Dec 2017 15:44

Instrument :

BNA_F

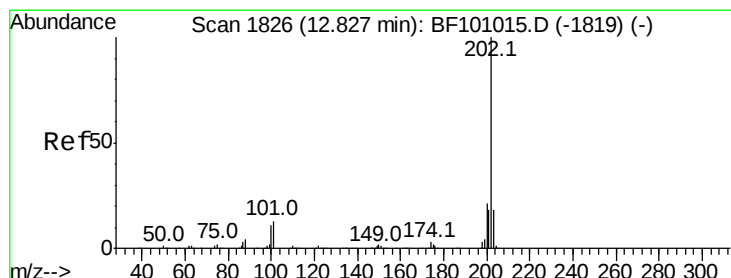
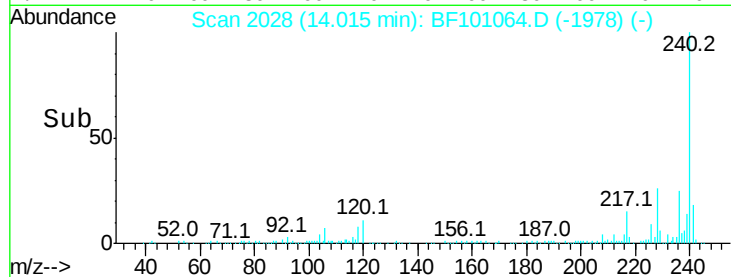
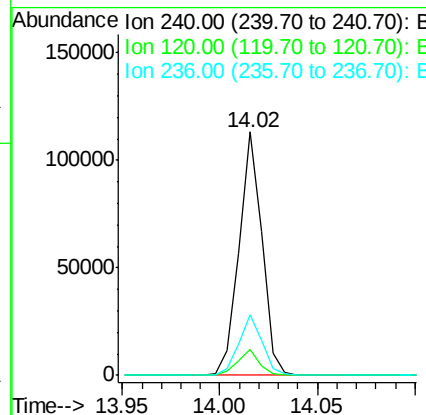
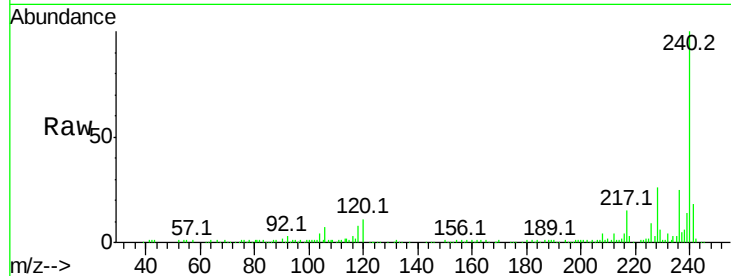
ClientSampleId :

SU-03-112917DL

Tot Ion:	240	Resp:	92216
Ion Ratio	Lower	Upper	
240	100		
120	10.6	9.5	14.3
236	25.0	20.7	31.1

Manual Integrations
APPROVED

Sohil
12/4/2017 11:56:38 AM



#77

Pyrene

Concen: 53.070 ng

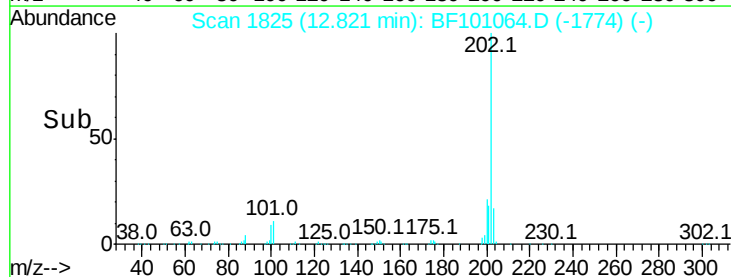
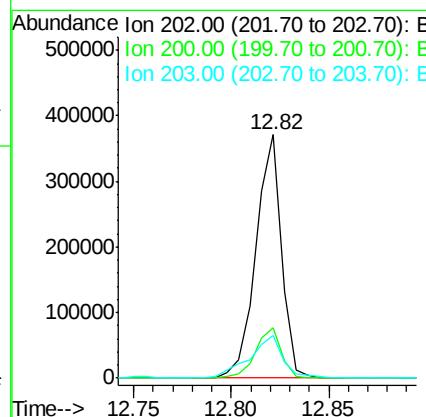
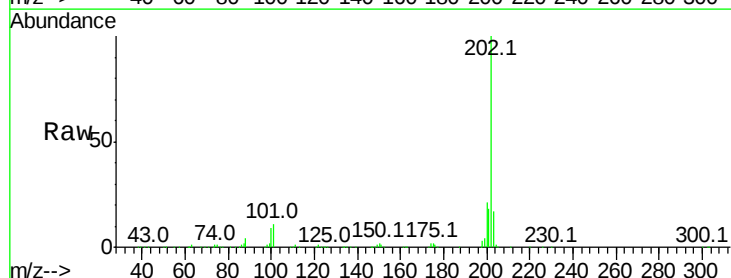
RT: 12.82 min Scan# 1825

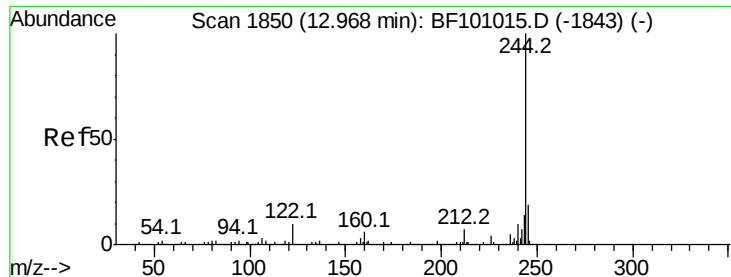
Delta R.T. 0.00 min

Lab File: BF101064.D

Acq: 1 Dec 2017 15:44

Tgt Ion:	202	Resp:	337693
Ion Ratio	Lower	Upper	
202	100		
200	20.9	17.4	26.2
203	17.4	14.3	21.5





#78

Terphenyl-d14

Concen: 2.749 ng

RT: 12.95 min Scan# 1847

Delta R.T. -0.01 min

Lab File: BF101064.D

Acq: 1 Dec 2017 15:44

Instrument :

BNA_F

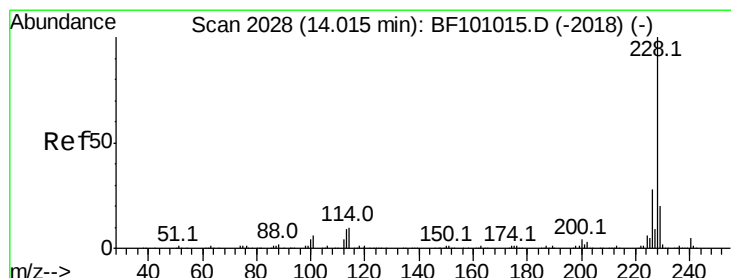
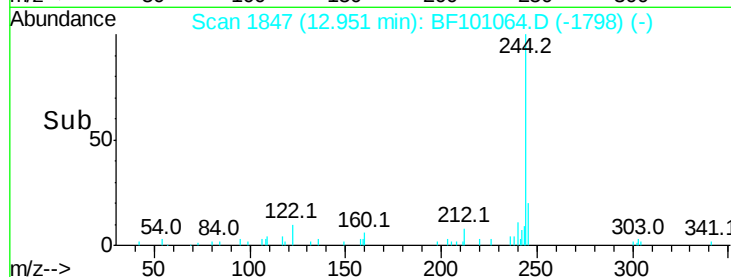
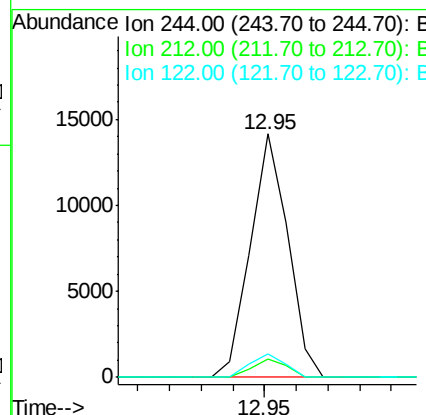
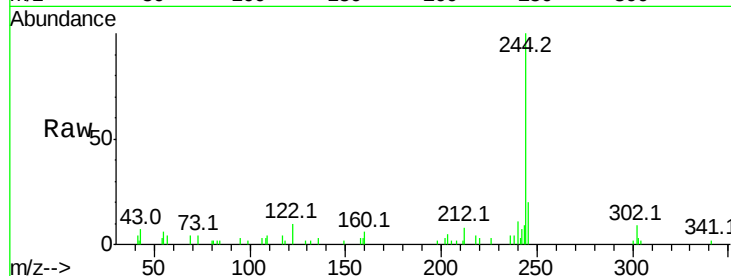
ClientSampleId :

SU-03-112917DL

Tot Ion	Ratio	Lower	Upper
244	100		
212	7.6	5.4	8.0
122	9.7	11.0	16.4

Manual Integrations
APPROVED

Sohil
12/4/2017 11:56:38 AM



#80

Benzo(a)anthracene

Concen: 23.872 ng

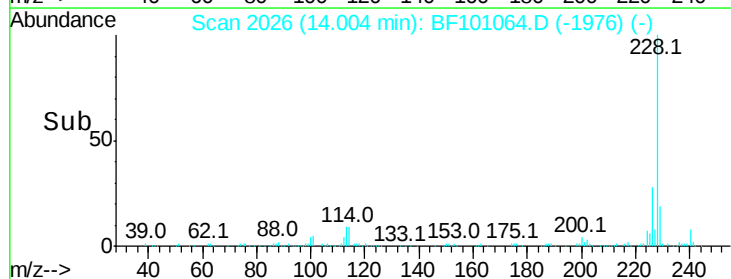
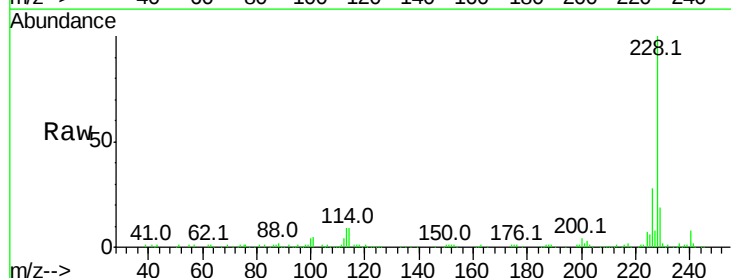
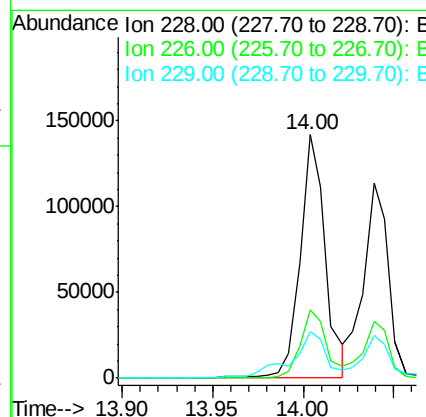
RT: 14.00 min Scan# 2026

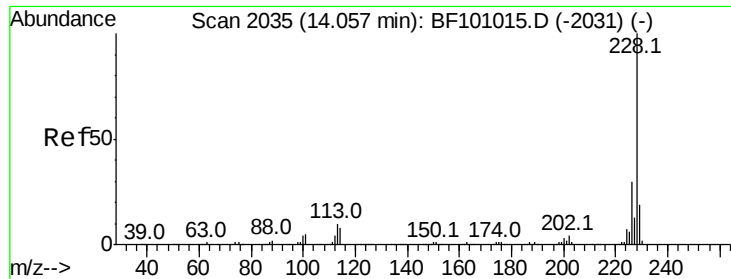
Delta R.T. -0.01 min

Lab File: BF101064.D

Acq: 1 Dec 2017 15:44

Tgt Ion	Ratio	Lower	Upper
228	100		
226	28.0	22.6	33.8
229	19.1	15.8	23.6





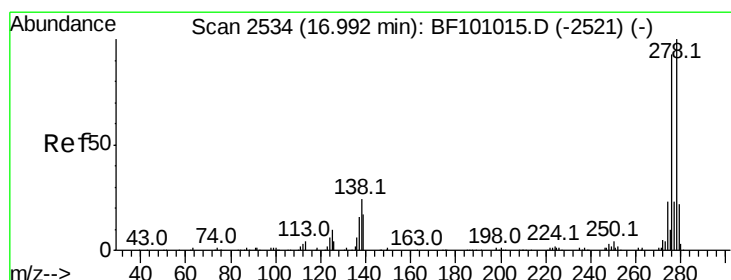
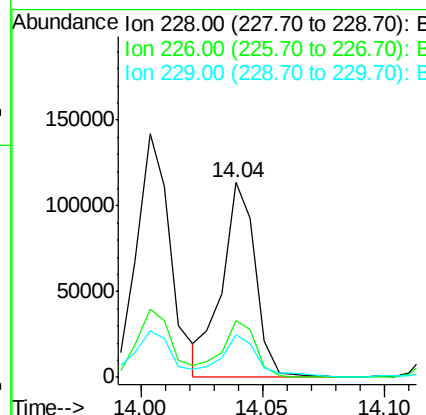
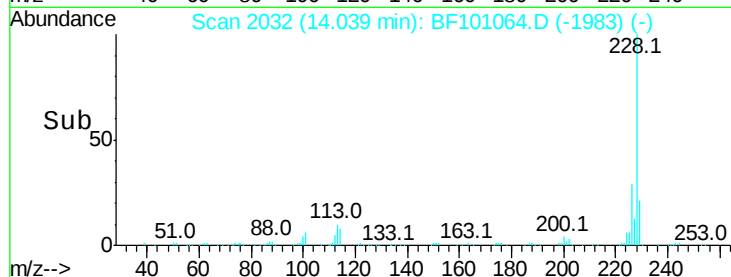
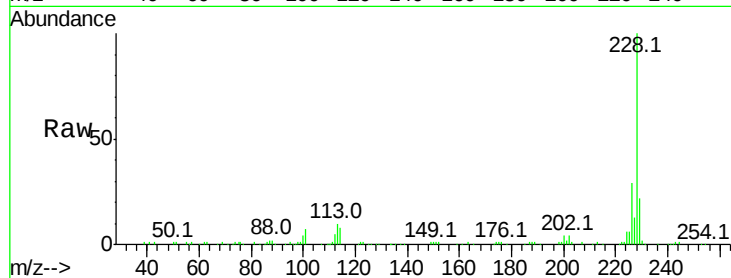
#82
Chrysene
Concen: 19.994 ng/mL
RT: 14.04 min Scan# 2032
Delta R.T. -0.01 min
Lab File: BF101064.D
Acq: 1 Dec 2017 15:44

Instrument :
BNA_F
ClientSampleID :
SU-03-112917DL

Tot Ion:	228	Resp:	108116
Ion Ratio	Lower	Upper	
228	100		
226	29.3	25.0	37.6
229	21.9	16.2	24.4

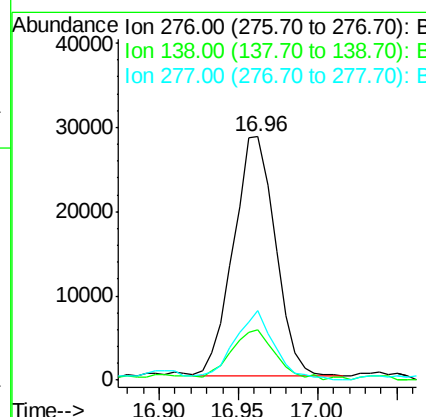
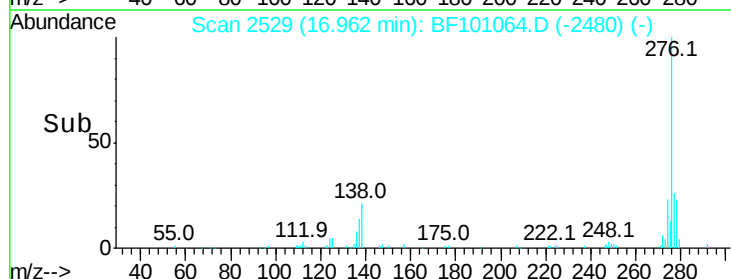
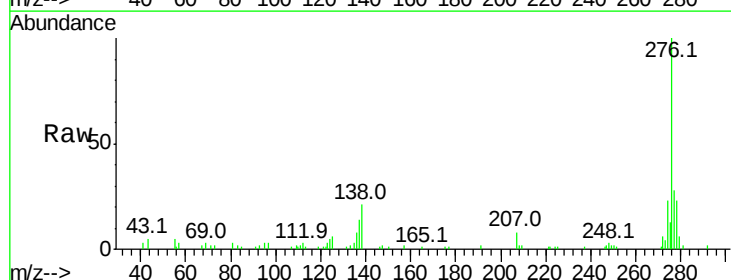
Manual Integrations
APPROVED

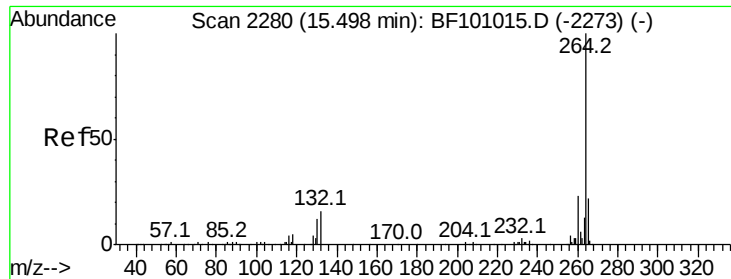
Sohil
12/4/2017 11:56:38 AM



#85
Indeno(1,2,3-cd)pyrene
Concen: 10.876 ng
RT: 16.96 min Scan# 2529
Delta R.T. -0.01 min
Lab File: BF101064.D
Acq: 1 Dec 2017 15:44

Tgt Ion:	276	Resp:	52287
Ion Ratio	Lower	Upper	
276	100		
138	23.3	25.0	37.6#
277	27.8	20.1	30.1





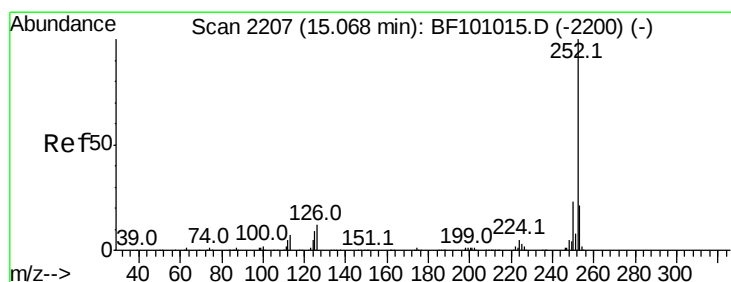
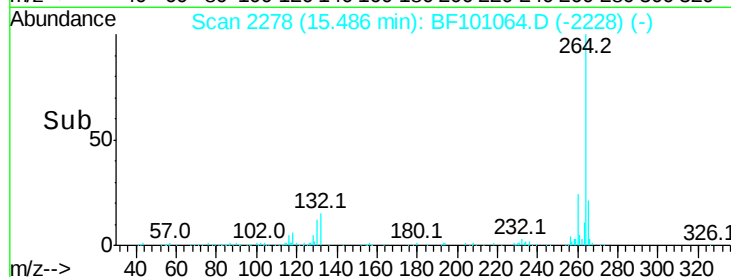
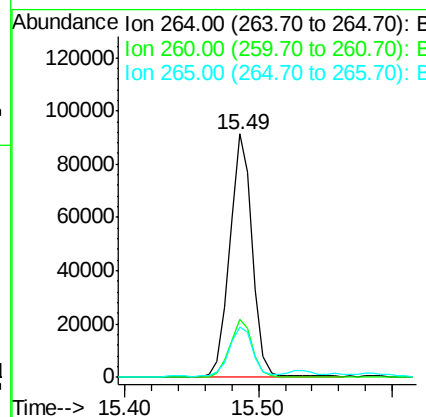
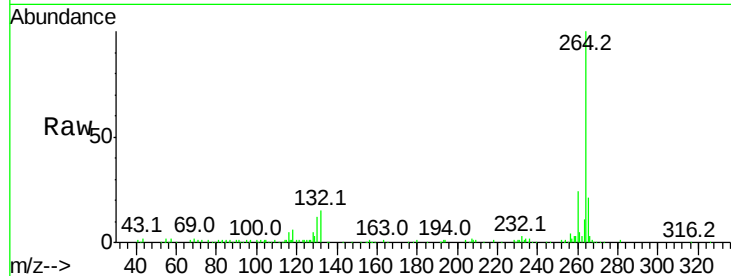
#86
Pervlene-d12
Concen: 20.000 ng
RT: 15.49 min Scan# 2278
Delta R.T. -0.01 min
Lab File: BF101064.D
Acq: 1 Dec 2017 15:44

Instrument :
BNA_F
ClientSampleId :
SU-03-112917DL

Tot Ion	Ratio	Lower	Upper
264	100		
260	24.1	19.2	28.8
265	20.7	17.5	26.3

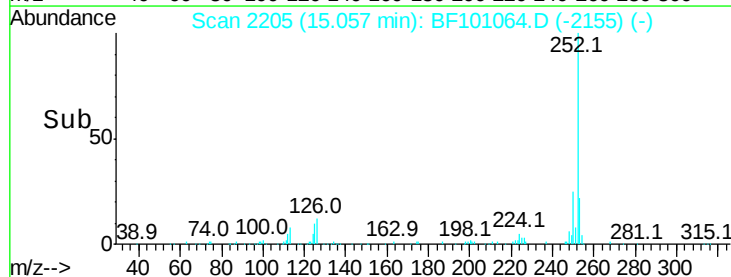
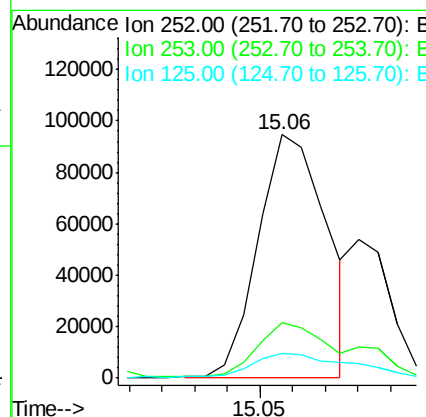
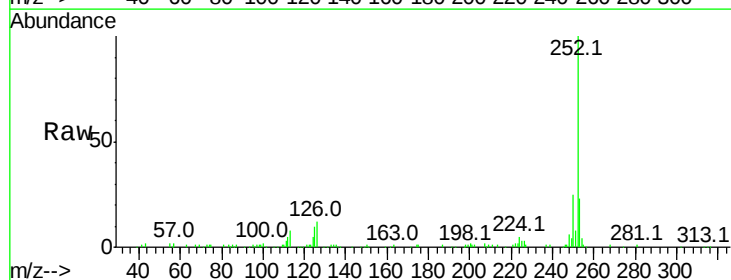
Manual Integrations
APPROVED

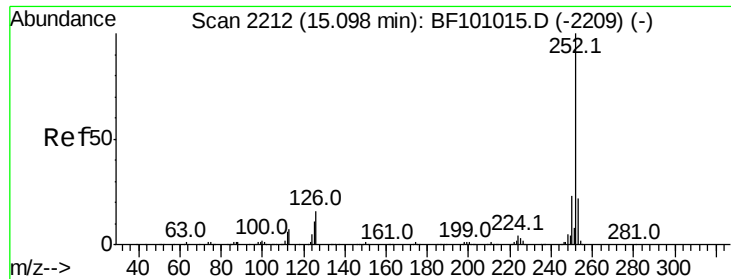
Sohil
12/4/2017 11:56:38 AM



#87
Benzo(b)fluoranthene
Concen: 21.181 ng m
RT: 15.06 min Scan# 2205
Delta R.T. -0.01 min
Lab File: BF101064.D
Acq: 1 Dec 2017 15:44

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.7	17.0	25.6
125	10.2	9.0	13.6





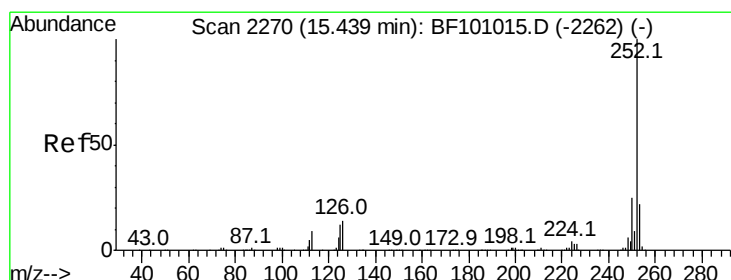
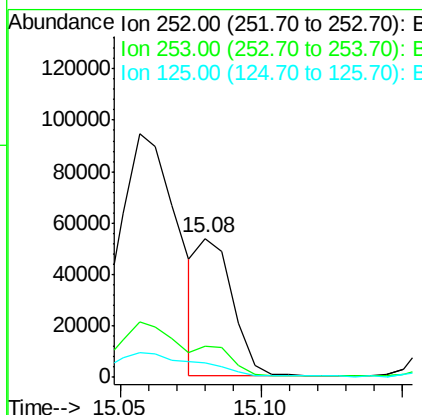
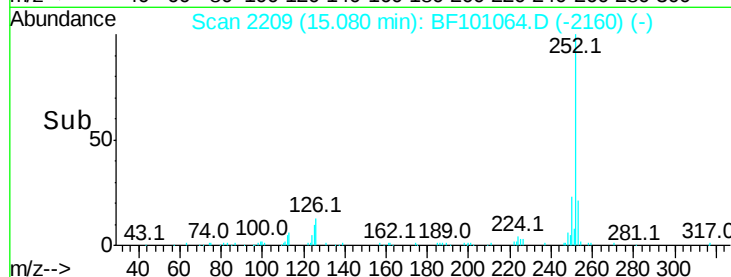
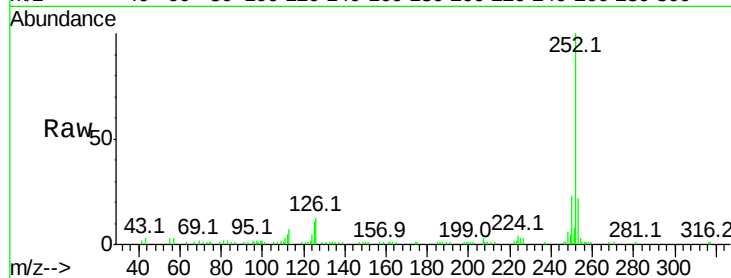
#88
Benzo(k)fluoranthene
Concen: 7.038 ng m
RT: 15.08 min Scan# 2209
Delta R.T. -0.01 min
Lab File: BF101064.D
Acq: 1 Dec 2017 15:44

Instrument :
BNA_F
ClientSampleId :
SU-03-112917DL

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.1	17.9	26.9
125	10.6	10.2	15.2

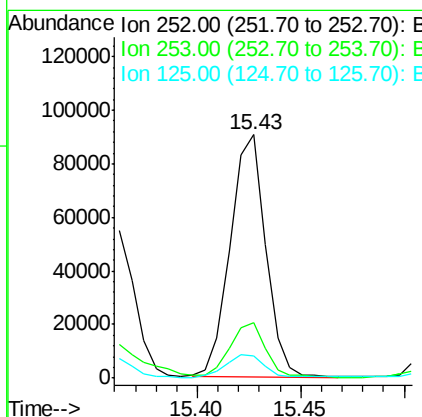
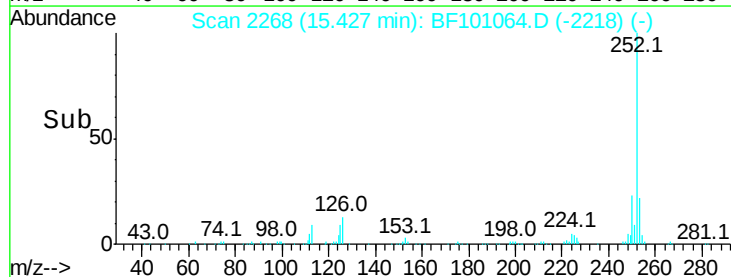
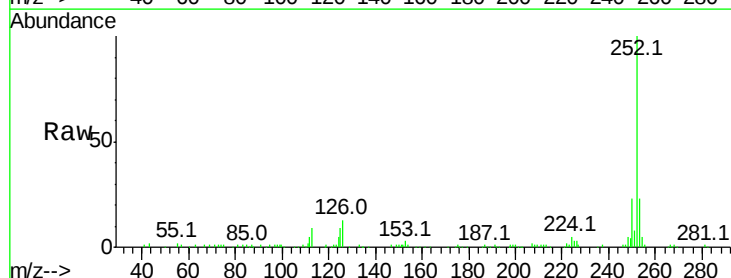
Manual Integrations
APPROVED

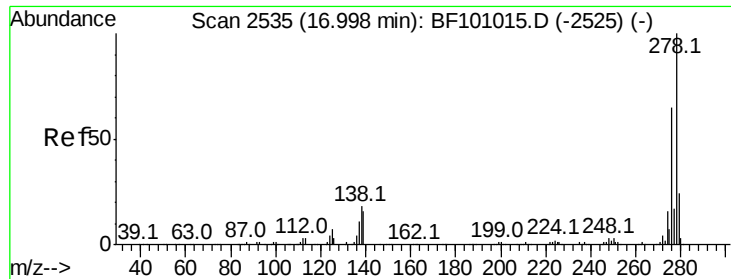
Sohil
12/4/2017 11:56:38 AM



#89
Benzo(a)pyrene
Concen: 18.197 ng m
RT: 15.43 min Scan# 2268
Delta R.T. -0.01 min
Lab File: BF101064.D
Acq: 1 Dec 2017 15:44

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.8	17.1	25.7
125	9.0	9.8	14.6





#90

Dibenzo(a,h)anthracene

Concen: 2.733 ng m

RT: 16.96 min Scan# 2529

Delta R.T. -0.02 min

Lab File: BF101064.D

Acq: 1 Dec 2017 15:44

Instrument :

BNA_F

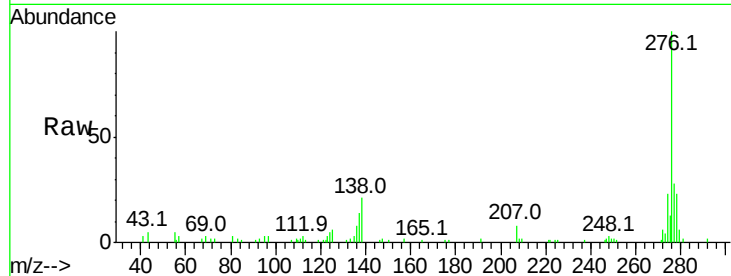
ClientSampleId :

SU-03-112917DL

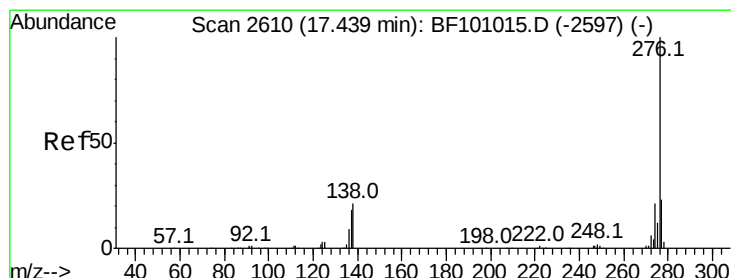
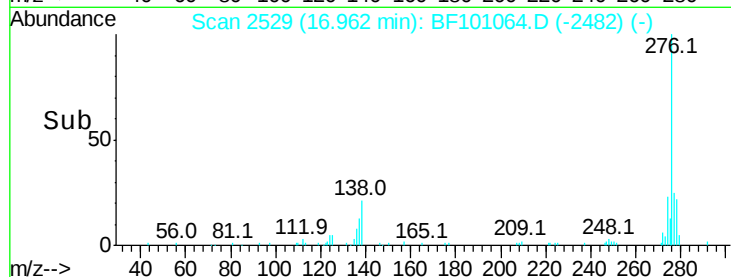
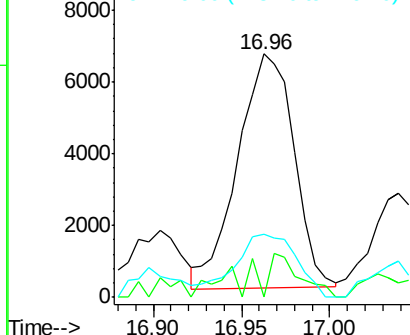
Tot Ion:	278	Resp:	14312
Ion Ratio	Lower	Upper	
278	100		
139	0.0	15.9	23.9#
279	26.1	19.0	28.4

Manual Integrations
APPROVED

Sohil
12/4/2017 11:56:38 AM



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: 9.911 ng

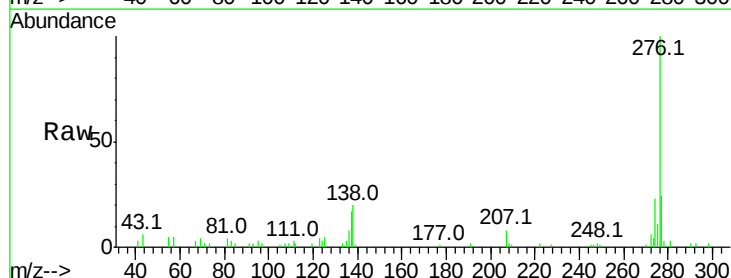
RT: 17.40 min Scan# 2604

Delta R.T. -0.02 min

Lab File: BF101064.D

Acq: 1 Dec 2017 15:44

Tgt Ion:	276	Resp:	48910
Ion Ratio	Lower	Upper	
276	100		
277	24.3	17.9	26.9
138	20.0	21.8	32.8#



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

