

Data Path : Z:\HPCHEM1\BNA F\DATA\BF111617\
 Data File : BF100636.D
 Acq On : 16 Nov 2017 17:47
 Operator : SJ/JU
 Sample : I6305-09 2X
 Misc :
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 PL-01-111317-D

Manual Integrations
 APPROVED

SOHIL
 11/17/2017 1:25:02 PM

Quant Time: Nov 16 18:19:16 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF110817.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Nov 16 17:27:23 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.88	152	108912	20.00	ng	0.00
21) Naphthalene-d8	8.16	136	389928	20.00	ng	0.00
38) Acenaphthene-d10	9.92	164	155174	20.00	ng	0.00
63) Phenanthrene-d10	11.40	188	253963	20.00	ng	0.00
75) Chrysene-d12	14.04	240	237409	20.00	ng	0.00
86) Perylene-d12	15.53	264	249368	20.00	ng	0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.50	112	333750	49.12	ng	0.00
7) Phenol-d6	6.50	99	396684	47.35	ng	-0.01
23) Nitrobenzene-d5	7.44	82	233267	39.55	ng	-0.01
41) 2,4,6-Tribromophenol	10.70	330	60911	38.52	ng	0.00
44) 2-Fluorobiphenyl	9.23	172	363595	35.68	ng	0.00
78) Terphenyl-d14	12.99	244	263559	25.51	ng	0.00
Target Compounds						
10) Phenol	6.51	94	18836	2.142	ng	Qvalue 94
31) Naphthalene	8.19	128	123339	6.567	ng	99
37) 2-Methylnaphthalene	8.87	142	61081	4.899	ng	98
48) Acenaphthylene	9.78	152	86927	5.387	ng	99
51) Acenaphthene	9.95	154	80852	8.239	ng	99
54) Dibenzofuran	10.12	168	138217	10.049	ng	95
57) Fluorene	10.46	166	234473	23.271	ng	100
70) Phenanthrene	11.43	178	1208953	90.413	ng	99
71) Anthracene	11.48	178	383904	28.299	ng	100
72) Carbazole	11.63	167	130568	10.431	ng	97
74) Fluoranthene	12.63	202	1405968	99.213	ng	97
77) Pylene	12.86	202	1289354	76.187	ng	100
80) Benzo(a)anthracene	14.04	228	680349	47.588	ng	95
82) Chrysene	14.07	228	629760	45.488	ng	97
85) Indeno(1,2,3-cd)pyrene	17.00	276	226559m	20.232	ng	
87) Benzo(b)fluoranthene	15.09	252	686429m	46.463	ng	
88) Benzo(k)fluoranthene	15.12	252	255791m	18.324	ng	
89) Benzo(a)pyrene	15.46	252	508397	38.817	ng	97
90) Dibenzo(a,h)anthracene	17.02	278	55869	5.216	ng	# 94
91) Benzo(a,h,i)perylene	17.46	276	187963	17.927	ng	92

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

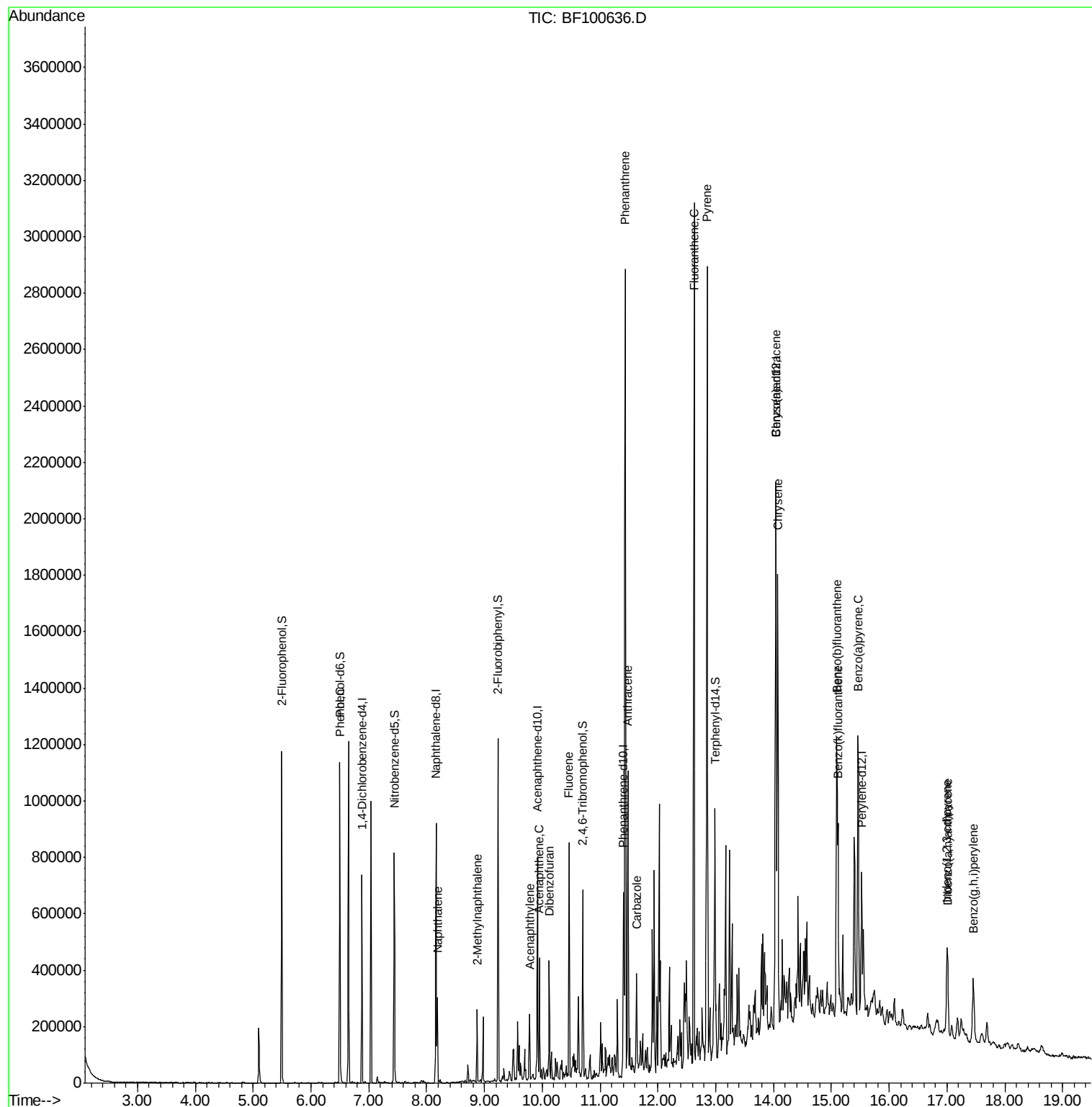
Data Path : Z:\HPCHEM1\BNA F\DATA\BF111617\
Data File : BF100636.D
Acq On : 16 Nov 2017 17:47
Operator : SJ/JU
Sample : I6305-09 2X
Misc :
ALS Vial : 20 Sample Multiplier: 1

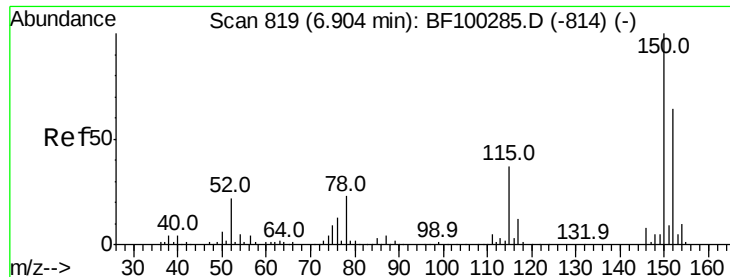
Instrument :
BNA_F
ClientSampleId :
PL-01-111317-D

Manual Integrations
APPROVED

SOHIL
11/17/2017 1:25:02 PM

Quant Time: Nov 16 18:19:16 2017
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF110817.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Nov 16 17:27:23 2017
Response via : Initial Calibration





#1

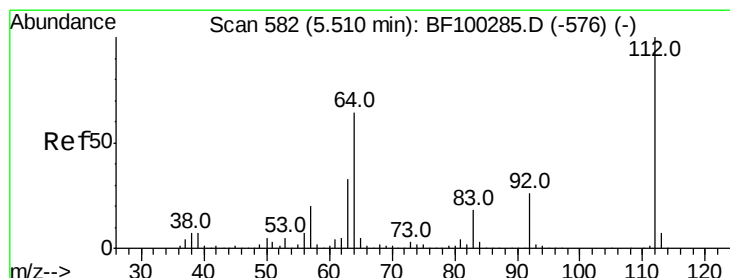
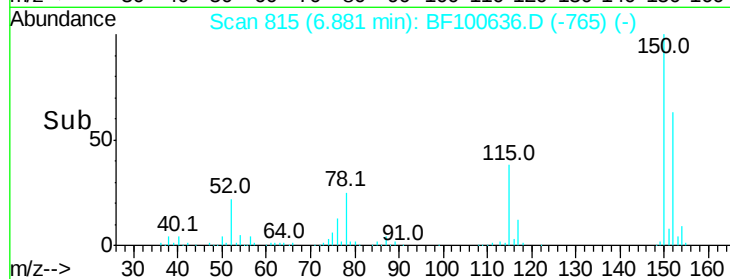
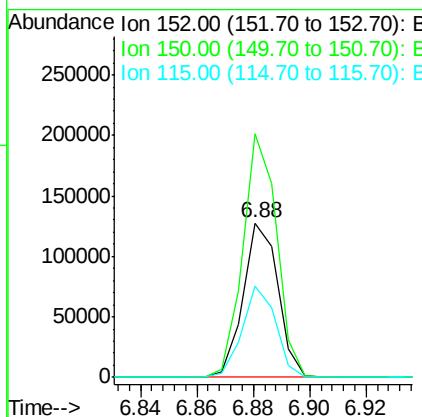
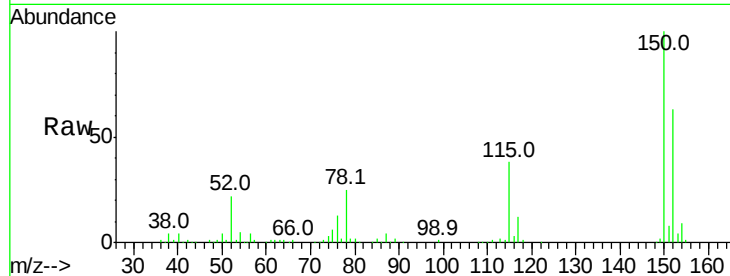
1,4-Dichlorobenzene-d4
 Concen: 20.000 ng
 RT: 6.88 min Scan# 815
 Delta R.T. -0.01 min
 Lab File: BF100636.D
 Acq: 16 Nov 2017 17:47

Instrument :
 BNA_F
 ClientSampleId :
 PL-01-111317-D

Tot Ion	Ratio	Lower	Upper
152	100		
150	157.5	124.6	186.8
115	59.1	50.1	75.1

Manual Integrations
 APPROVED

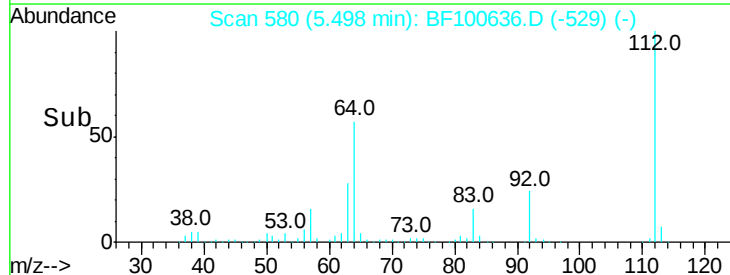
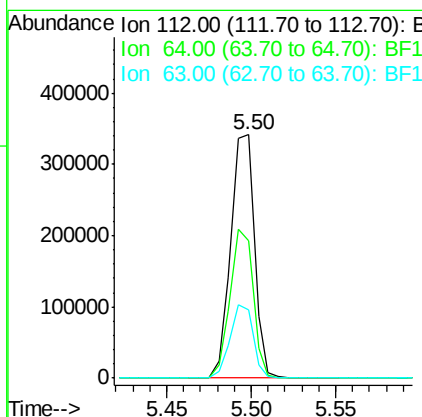
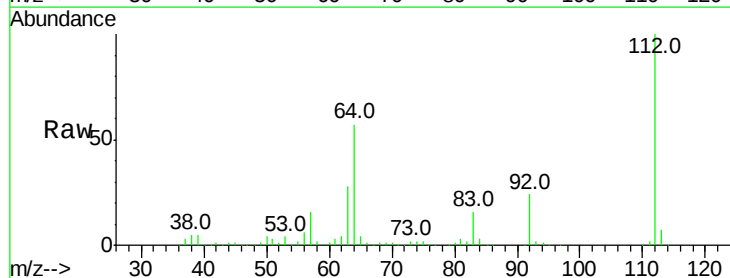
SOHIL
 11/17/2017 1:25:02 PM

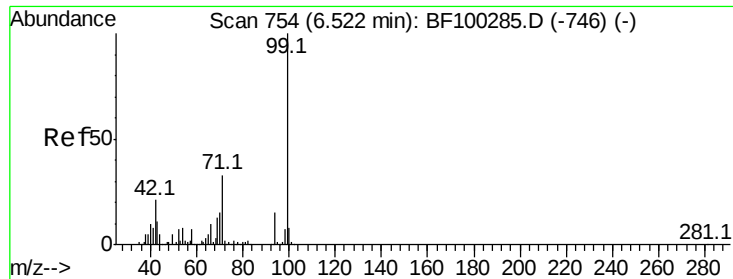


#5

2-Fluorophenol
 Concen: 49.122 ng
 RT: 5.50 min Scan# 580
 Delta R.T. -0.00 min
 Lab File: BF100636.D
 Acq: 16 Nov 2017 17:47

Tgt Ion	Ratio	Lower	Upper
112	100		
64	56.6	47.9	71.9
63	27.8	23.7	35.5





#7

Phenol-d6

Concen: 47.347 ng

RT: 6.50 min Scan# 750

Delta R.T. -0.01 min

Lab File: BF100636.D

Acq: 16 Nov 2017 17:47

Instrument :

BNA_F

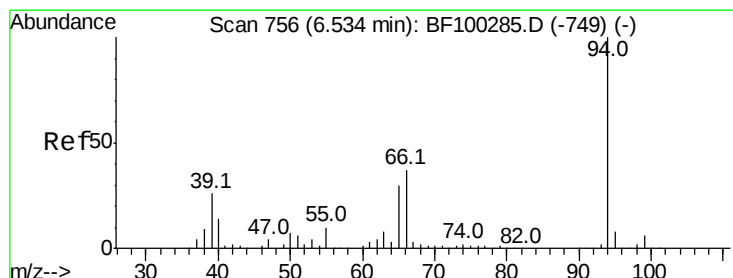
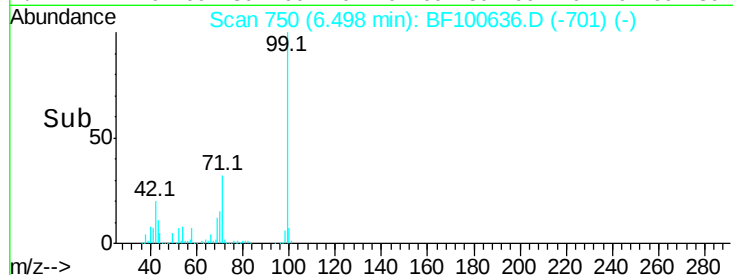
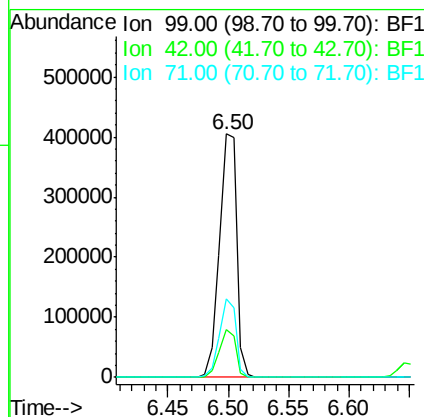
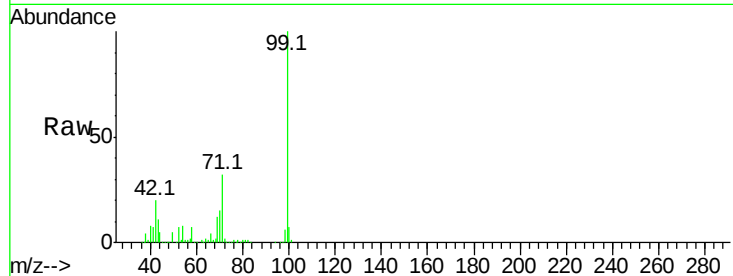
ClientSampleId :

PL-01-111317-D

Tot Ion:	99	Resp:	396684
Ion Ratio	Lower	Upper	
99	100		
42	19.5	14.5	21.7
71	32.4	25.4	38.0

Manual Integrations
APPROVED

SOHIL
11/17/2017 1:25:02 PM



#10

Phenol

Concen: 2.142 ng

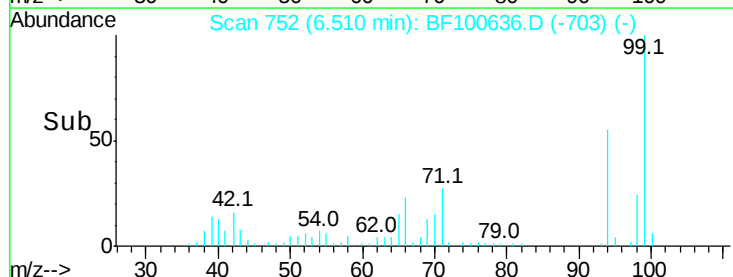
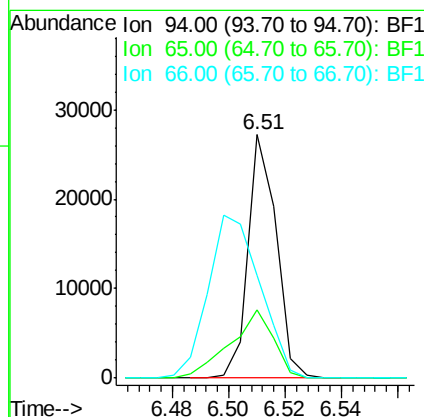
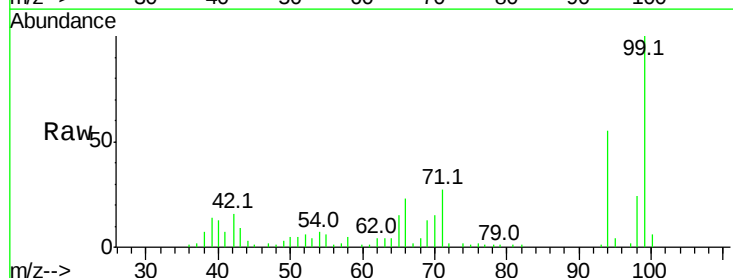
RT: 6.51 min Scan# 752

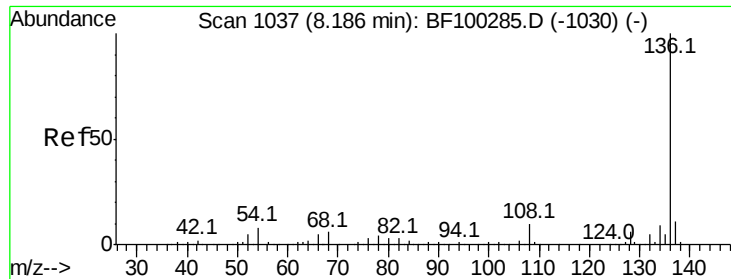
Delta R.T. -0.01 min

Lab File: BF100636.D

Acq: 16 Nov 2017 17:47

Tgt Ion:	94	Resp:	18836
Ion Ratio	Lower	Upper	
94	100		
65	28.1	7.9	47.9
66	42.2	16.2	56.2





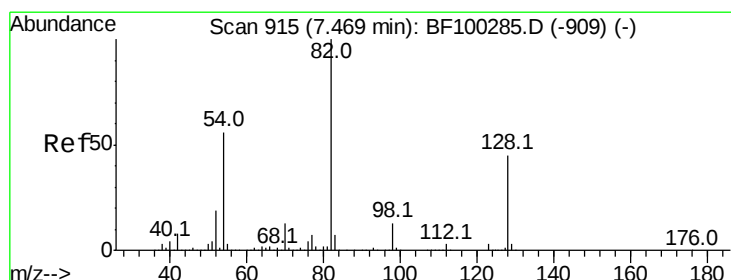
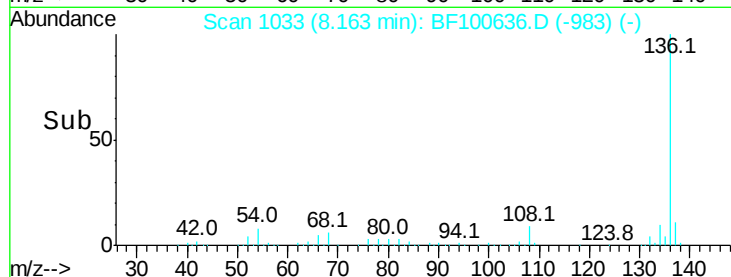
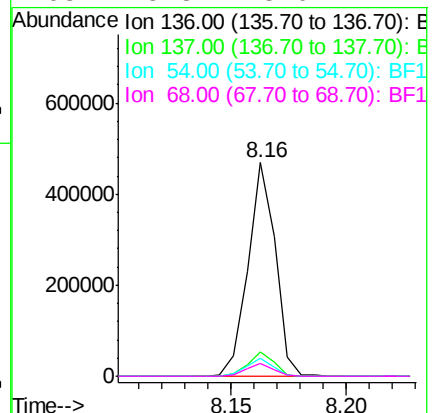
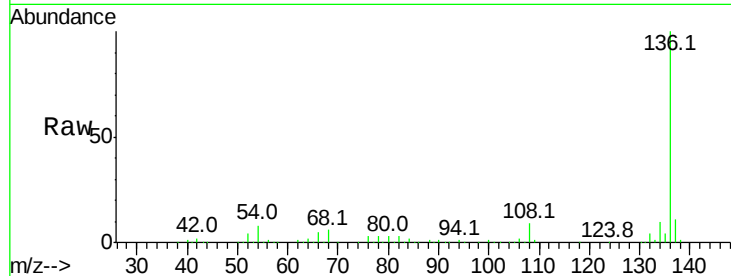
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.16 min Scan# 1033
Delta R.T. -0.01 min
Lab File: BF100636.D
Acq: 16 Nov 2017 17:47

Instrument :
BNA_F
ClientSampleId :
PL-01-111317-D

Tot Ion	Ratio	Resp Lower	Upper
136	100		
137	11.2	8.9	13.3
54	8.4	6.6	9.8
68	5.8	5.0	7.4

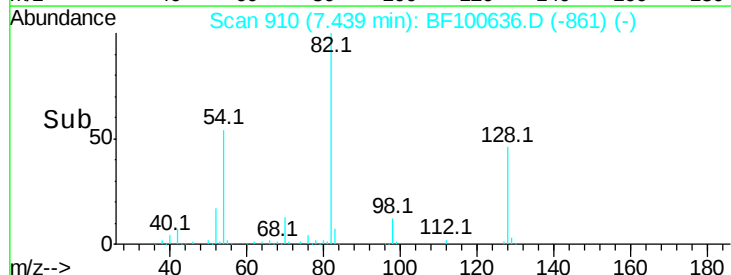
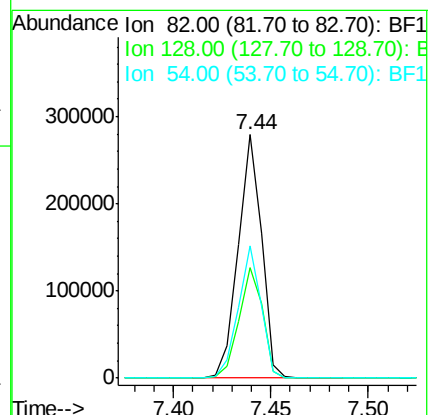
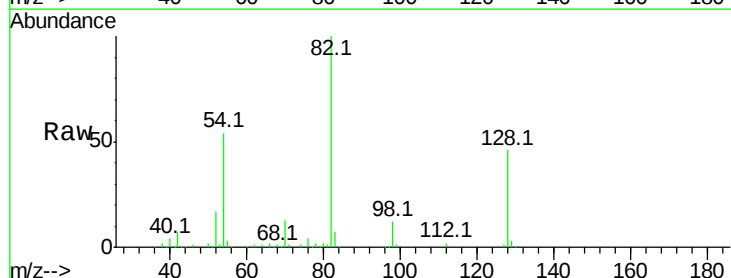
Manual Integrations
APPROVED

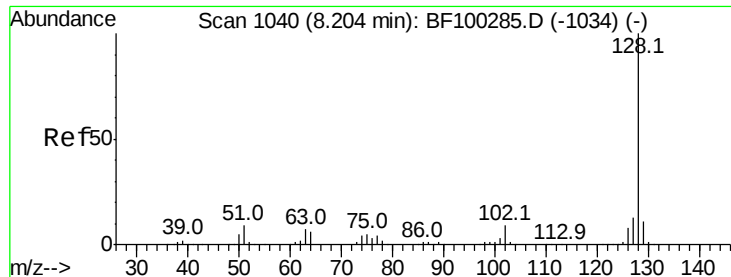
SOHIL
11/17/2017 1:25:02 PM



#23
Nitrobenzene-d5
Concen: 39.551 ng
RT: 7.44 min Scan# 910
Delta R.T. -0.01 min
Lab File: BF100636.D
Acq: 16 Nov 2017 17:47

Tgt Ion	Ratio	Resp Lower	Upper
82	100		
128	45.6	36.1	54.1
54	54.1	41.4	62.2





#31

Naphthalene

Concen: 6.567 ng

RT: 8.19 min Scan# 1037

Delta R.T. -0.01 min

Lab File: BF100636.D

Acq: 16 Nov 2017 17:47

Instrument :

BNA_F

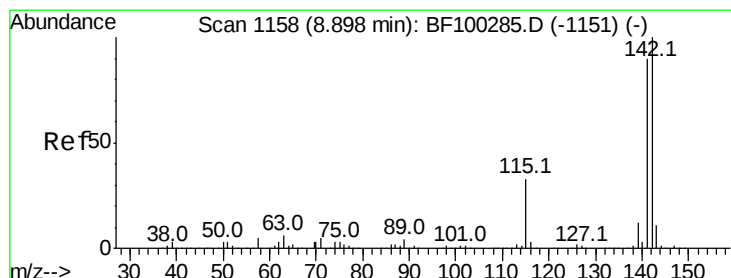
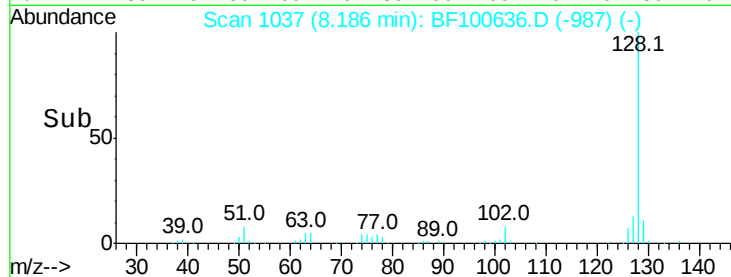
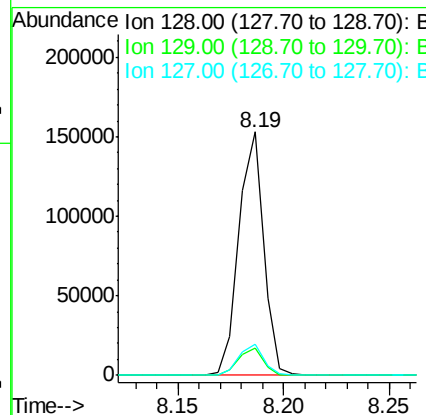
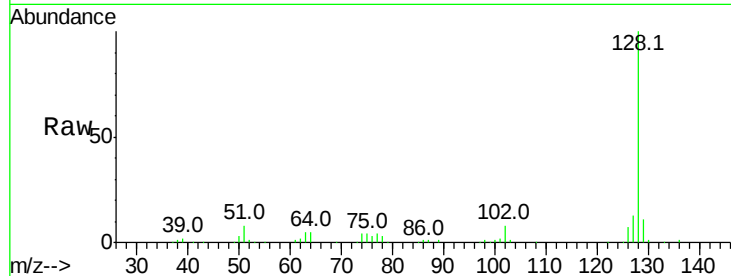
ClientSampleId :

PL-01-111317-D

Tot Ion:	128	Resp:	123339
Ion Ratio	Lower	Upper	
128	100		
129	11.0	8.8	13.2
127	12.8	10.9	16.3

Manual Integrations
APPROVED

SOHIL
11/17/2017 1:25:02 PM



#37

2-Methylnaphthalene

Concen: 4.899 ng

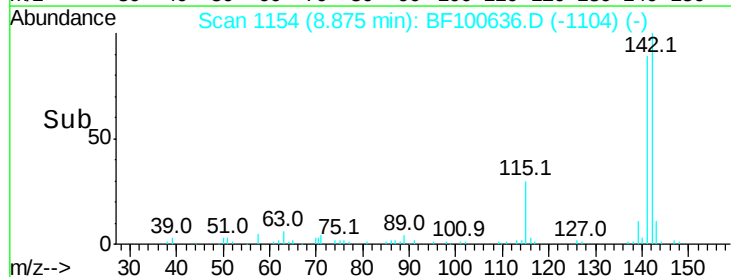
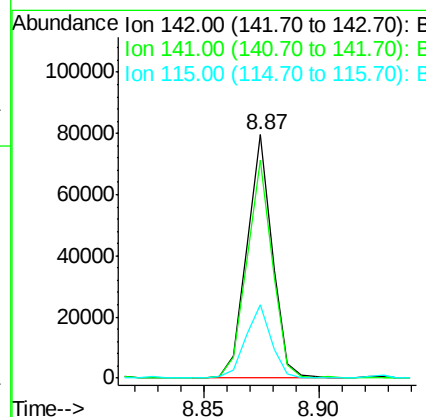
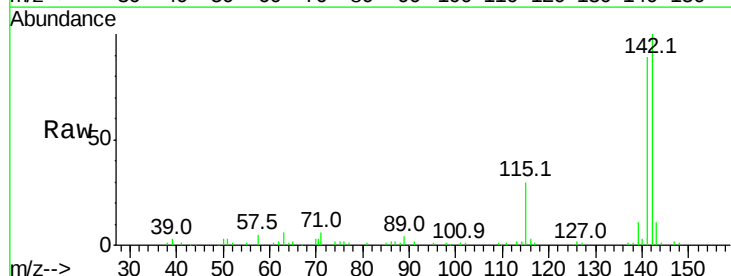
RT: 8.87 min Scan# 1154

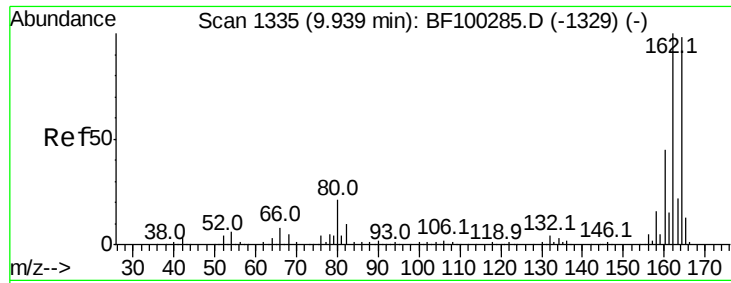
Delta R.T. -0.01 min

Lab File: BF100636.D

Acq: 16 Nov 2017 17:47

Tgt Ion:	142	Resp:	61081
Ion Ratio	Lower	Upper	
142	100		
141	89.4	70.8	106.2
115	30.4	26.1	39.1





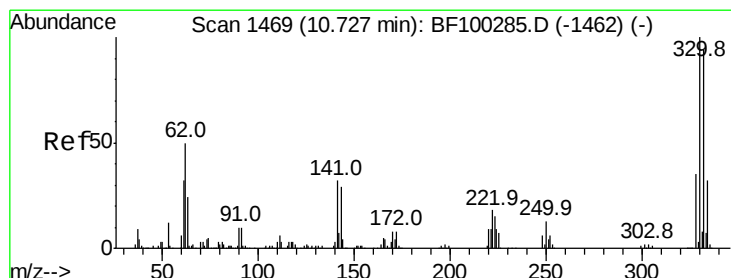
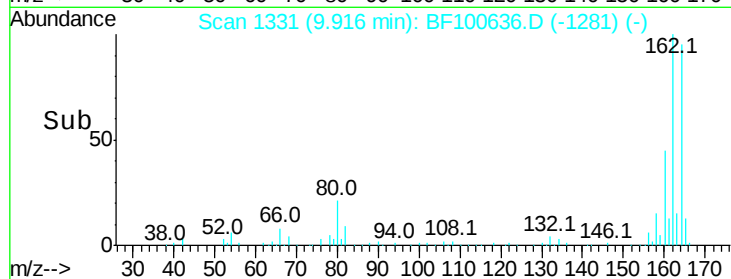
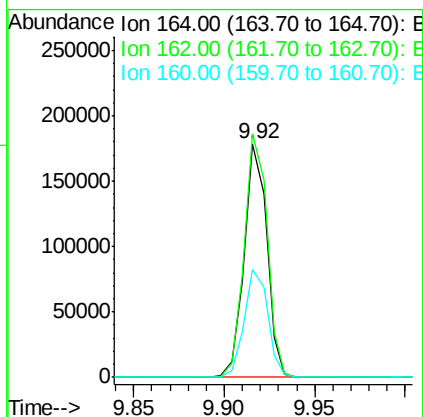
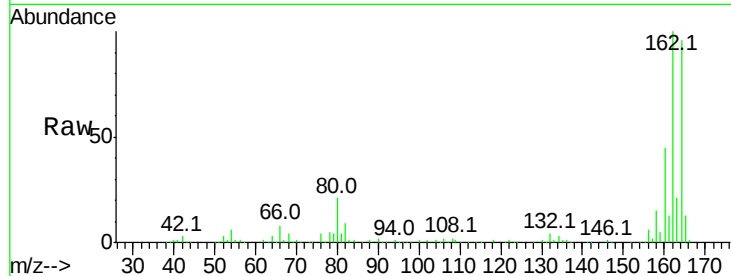
#38
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.92 min Scan# 1331
Delta R.T. -0.01 min
Lab File: BF100636.D
Acq: 16 Nov 2017 17:47

Instrument :
BNA_F
ClientSampleId :
PL-01-111317-D

Tot Ion	Ratio	Resp	Lower	Upper
164	100	155174		
162	104.0	86.1	129.1	
160	46.4	38.3	57.5	

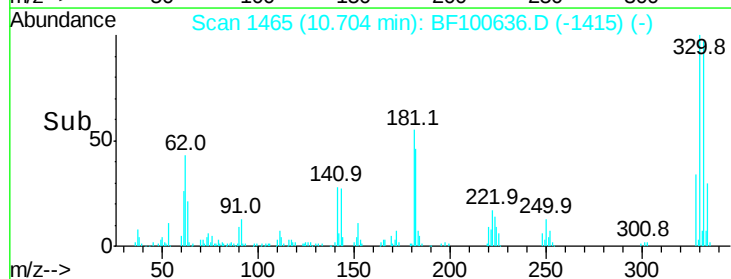
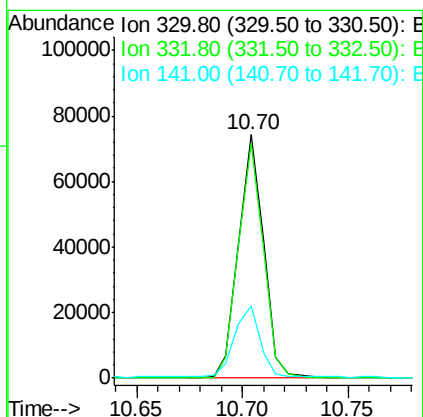
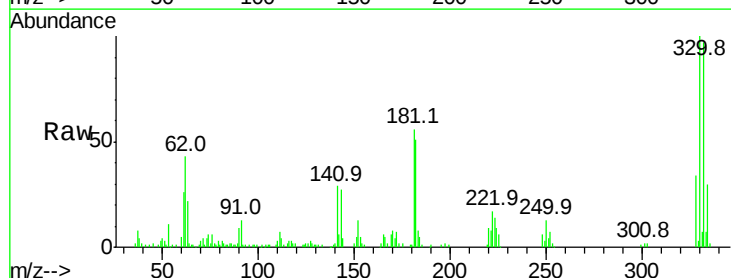
Manual Integrations
APPROVED

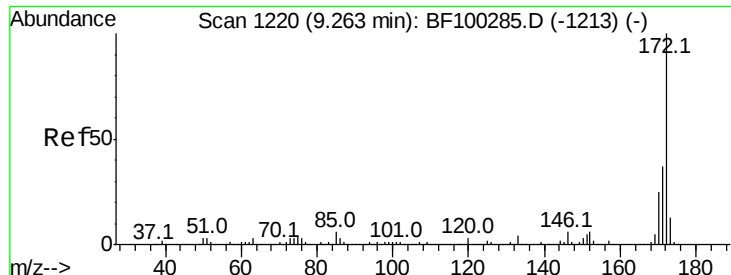
SOHIL
11/17/2017 1:25:02 PM



#41
2,4,6-Tribromophenol
Concen: 38.521 ng
RT: 10.70 min Scan# 1465
Delta R.T. -0.01 min
Lab File: BF100636.D
Acq: 16 Nov 2017 17:47

Tgt Ion	Ratio	Resp	Lower	Upper
330	100	60911		
332	96.2	77.0	115.6	
141	29.6	29.9	44.9#	





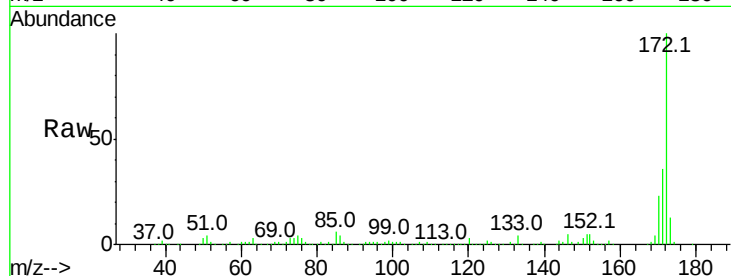
#44
2-Fluorobiphenyl
Concen: 35.679 ng
RT: 9.23 min Scan# 1215
Delta R.T. -0.01 min
Lab File: BF100636.D
Acq: 16 Nov 2017 17:47

Instrument :
BNA_F
ClientSampleId :
PL-01-111317-D

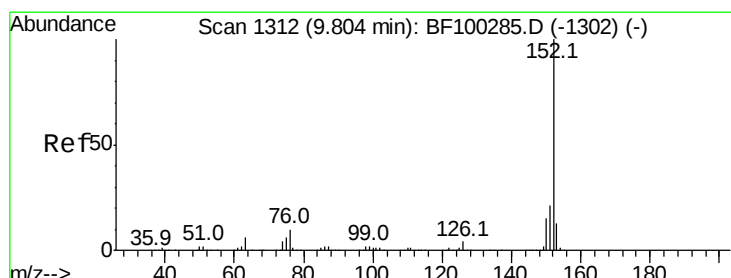
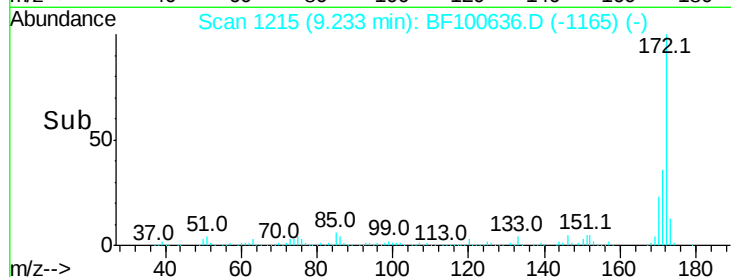
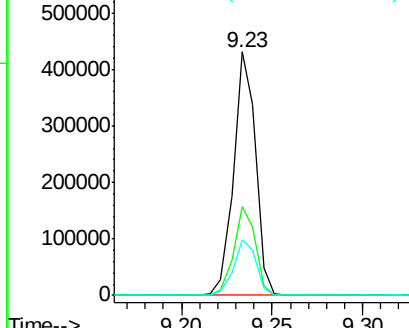
Tot Ion	Ratio	Resp	Lower	Upper
172	100	363595		
171	36.5		29.7	44.5
170	23.0		19.6	29.4

Manual Integrations
APPROVED

SOHIL
11/17/2017 1:25:02 PM

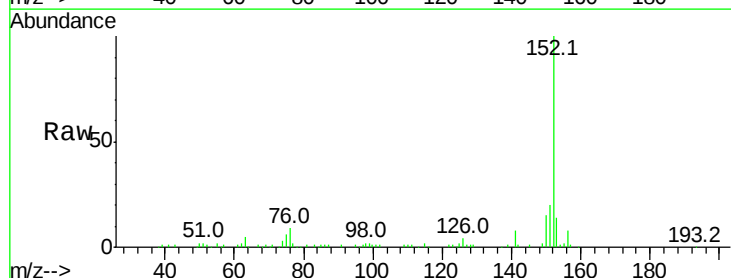


Abundance Ion 172.00 (171.70 to 172.70): E
Ion 171.00 (170.70 to 171.70): E
Ion 170.00 (169.70 to 170.70): E

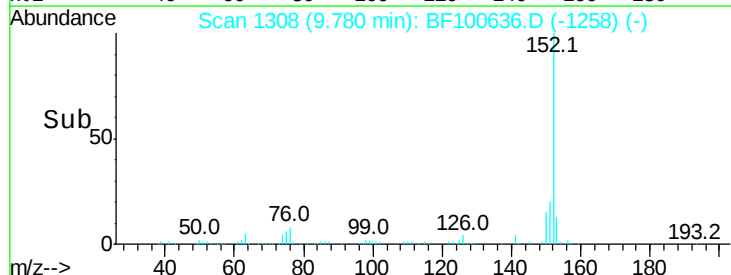
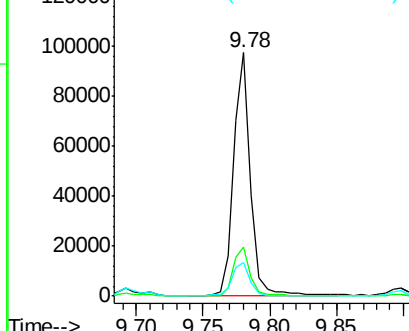


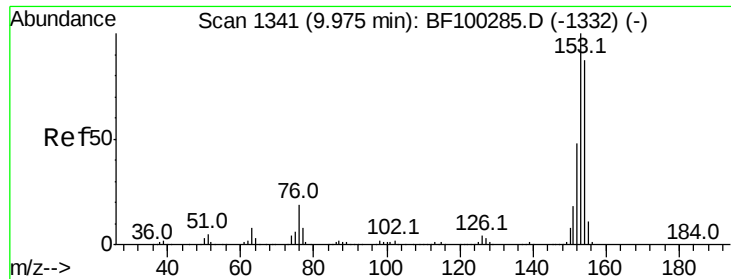
#48
Acenaphthylene
Concen: 5.387 ng
RT: 9.78 min Scan# 1308
Delta R.T. -0.01 min
Lab File: BF100636.D
Acq: 16 Nov 2017 17:47

Tgt Ion	Ratio	Resp	Lower	Upper
152	100	86927		
151	20.0		16.3	24.5
153	14.0		10.7	16.1



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





#51

Acenaphthene

Concen: 8.239 ng

RT: 9.95 min Scan# 1337

Delta R.T. -0.01 min

Lab File: BF100636.D

Acq: 16 Nov 2017 17:47

Instrument :

BNA_F

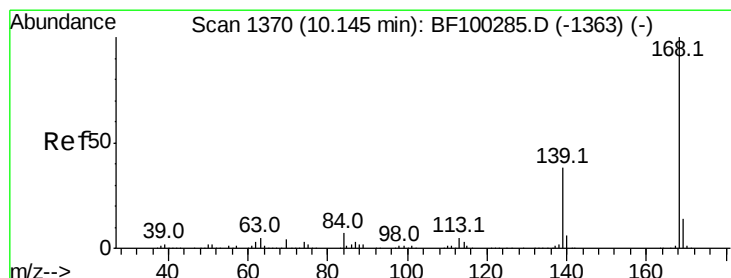
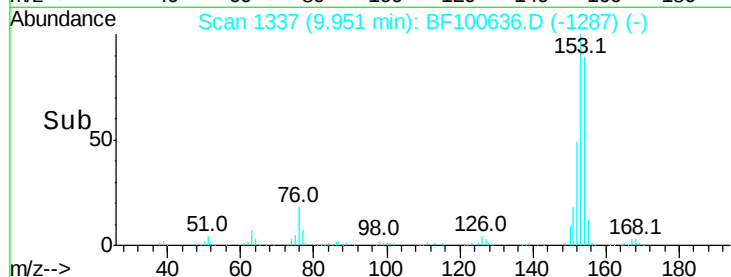
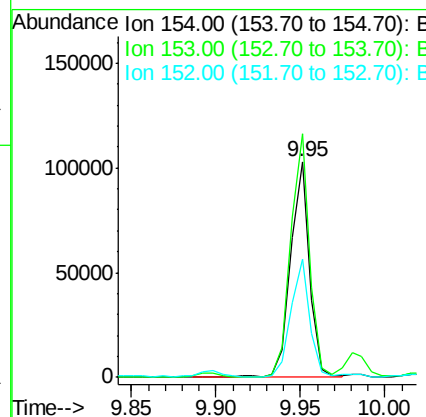
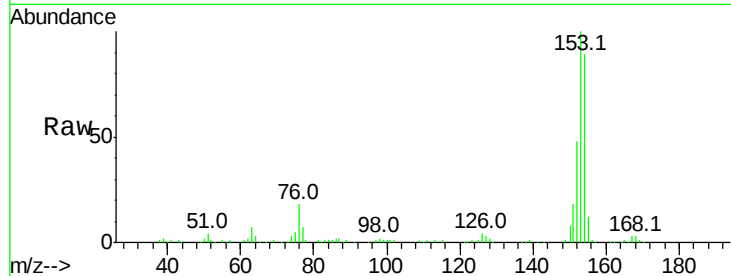
ClientSampleId :

PL-01-111317-D

Tot Ion:	154	Resp:	80852
Ion Ratio	Lower	Upper	
154	100		
153	112.9	91.2	136.8
152	54.6	43.8	65.8

Manual Integrations
APPROVED

SOHIL
11/17/2017 1:25:02 PM



#54

Dibenzofuran

Concen: 10.049 ng

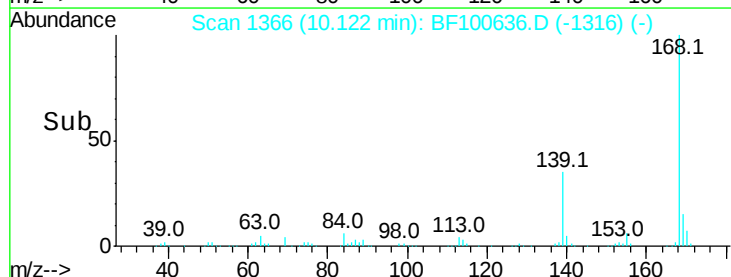
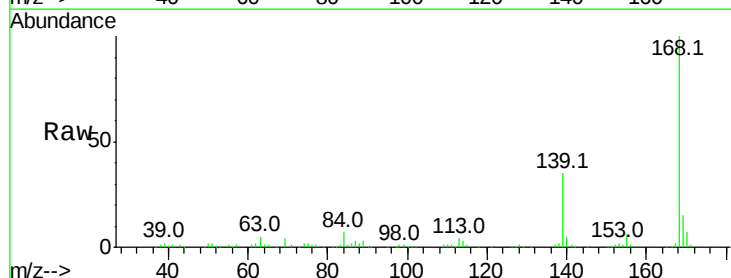
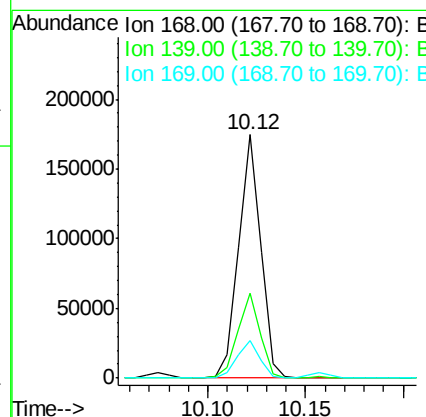
RT: 10.12 min Scan# 1366

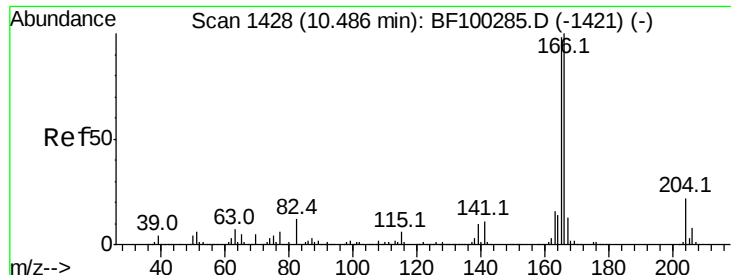
Delta R.T. -0.01 min

Lab File: BF100636.D

Acq: 16 Nov 2017 17:47

Tgt Ion:	168	Resp:	138217
Ion Ratio	Lower	Upper	
168	100		
139	34.8	30.1	45.1
169	15.5	10.9	16.3





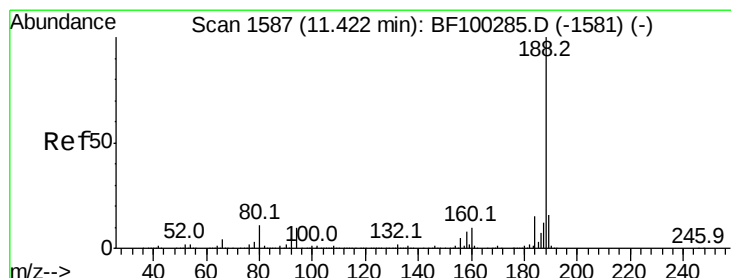
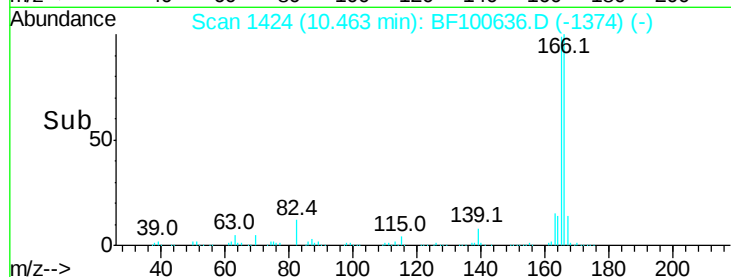
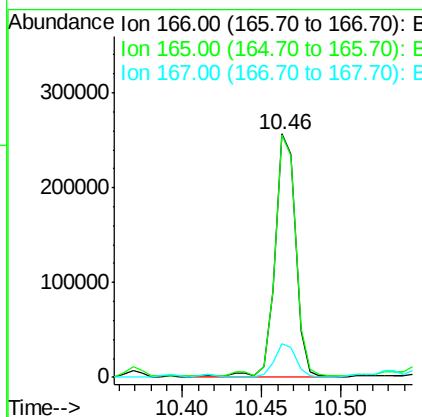
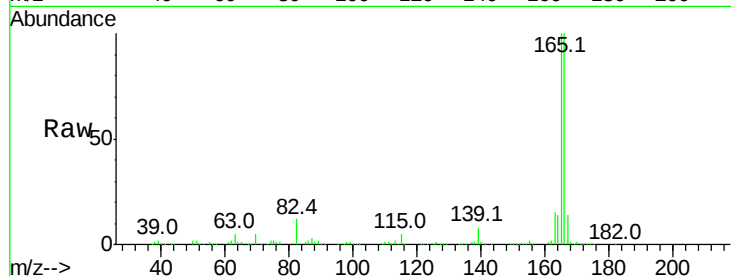
#57
Fluorene
 Concen: 23.271 ng
 RT: 10.46 min Scan# 1424
 Delta R.T. -0.01 min
 Lab File: BF100636.D
 Acq: 16 Nov 2017 17:47

Instrument :
 BNA_F
 ClientSampleId :
 PL-01-111317-D

Tot Ion	Ratio	Lower	Upper
166	100		
165	99.7	79.8	119.8
167	14.0	10.6	16.0

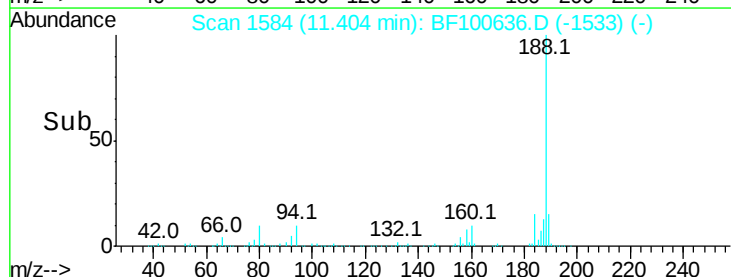
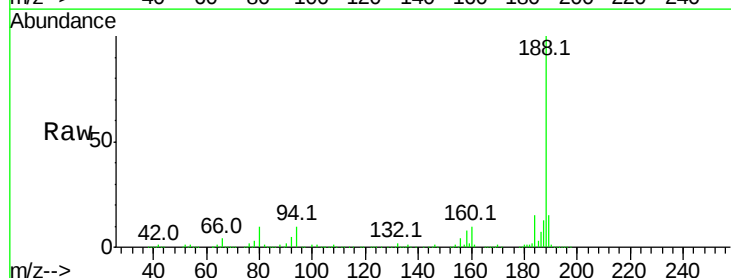
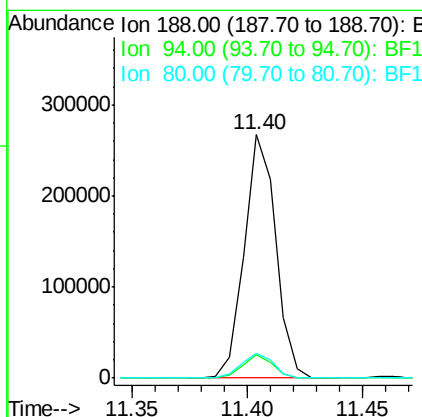
Manual Integrations
 APPROVED

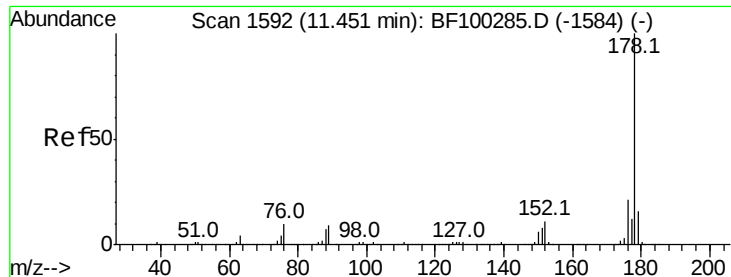
SOHIL
 11/17/2017 1:25:02 PM



#63
Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.40 min Scan# 1584
 Delta R.T. -0.00 min
 Lab File: BF100636.D
 Acq: 16 Nov 2017 17:47

Tgt Ion	Ratio	Lower	Upper
188	100		
94	9.7	8.5	12.7
80	10.0	9.2	13.8





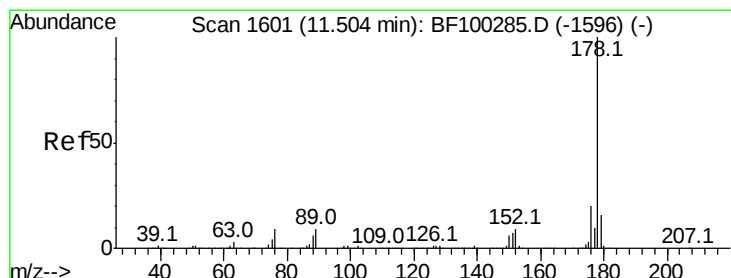
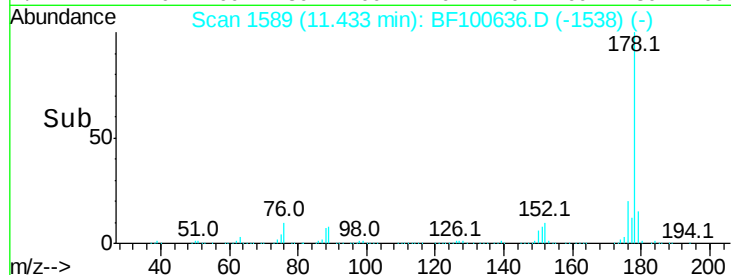
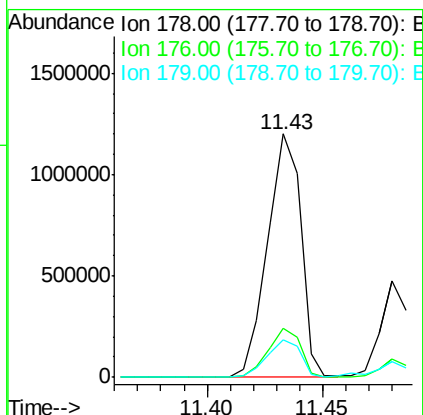
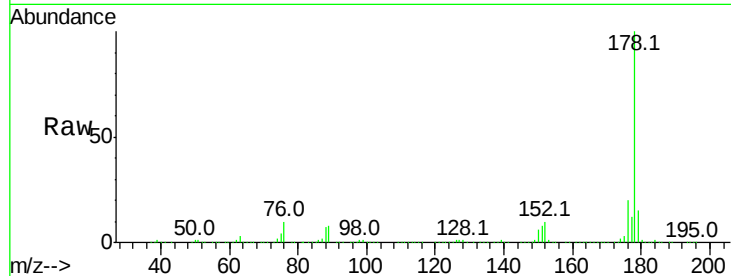
#70
Phenanthrene
Concen: 90.413 ng
RT: 11.43 min Scan# 1589
Delta R.T. -0.00 min
Lab File: BF100636.D
Acq: 16 Nov 2017 17:47

Instrument :
BNA_F
ClientSampleId :
PL-01-111317-D

Tot Ion:178 Resp: 1208953
Ion Ratio Lower Upper
178 100
176 20.1 15.8 23.8
179 15.3 13.0 19.6

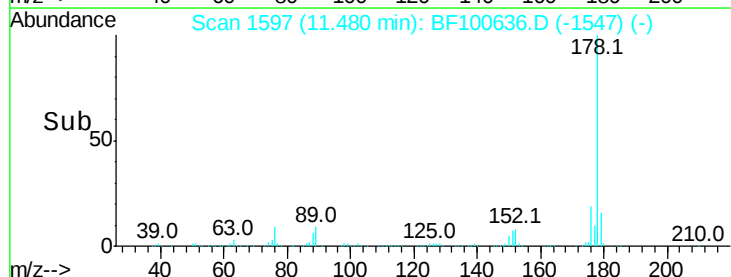
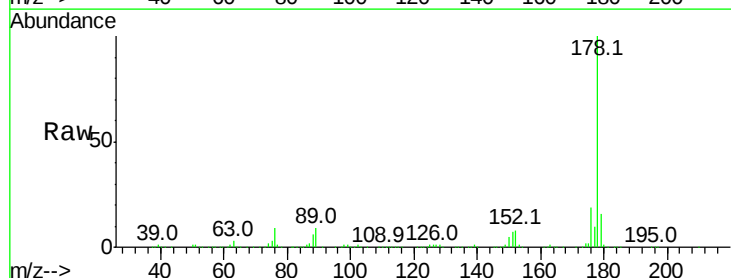
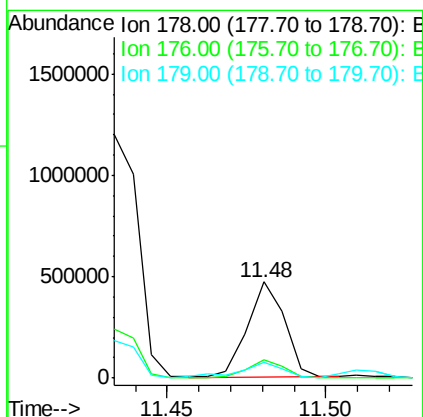
Manual Integrations
APPROVED

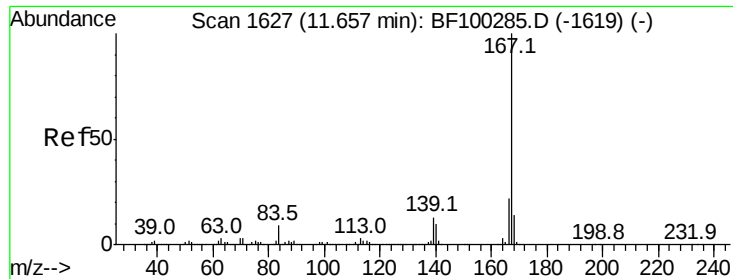
SOHIL
11/17/2017 1:25:02 PM



#71
Anthracene
Concen: 28.299 ng
RT: 11.48 min Scan# 1597
Delta R.T. -0.01 min
Lab File: BF100636.D
Acq: 16 Nov 2017 17:47

Tgt Ion:178 Resp: 383904
Ion Ratio Lower Upper
178 100
176 19.1 15.4 23.2
179 15.8 12.6 19.0





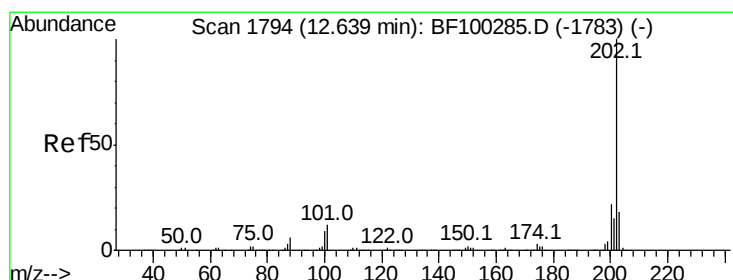
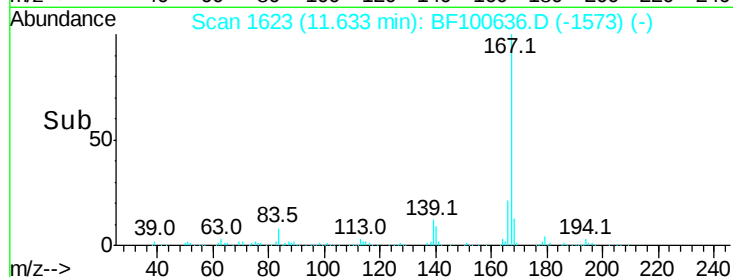
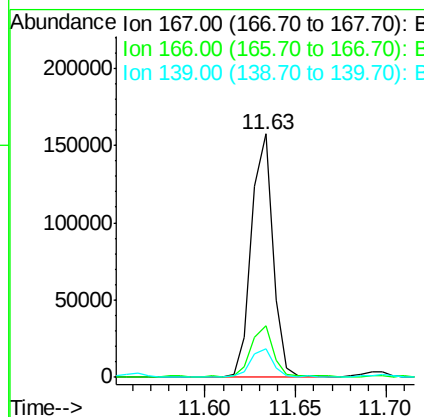
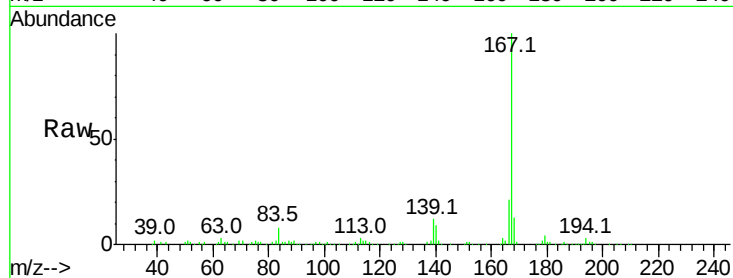
#72
 Carbazole
 Concen: 10.431 ng
 RT: 11.63 min Scan# 1623
 Delta R.T. -0.01 min
 Lab File: BF100636.D
 Acq: 16 Nov 2017 17:47

Instrument :
 BNA_F
 ClientSampleId :
 PL-01-111317-D

Tot Ion	Ratio	Lower	Upper
167	100		
166	21.2	17.6	26.4
139	11.8	10.9	16.3

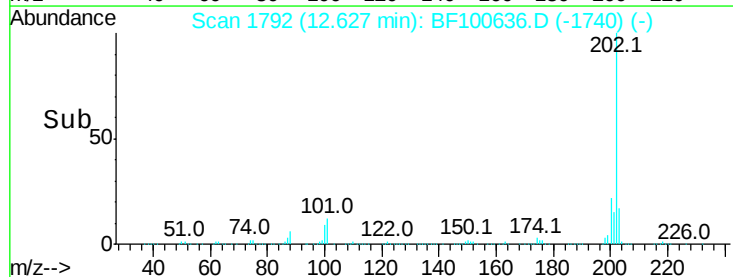
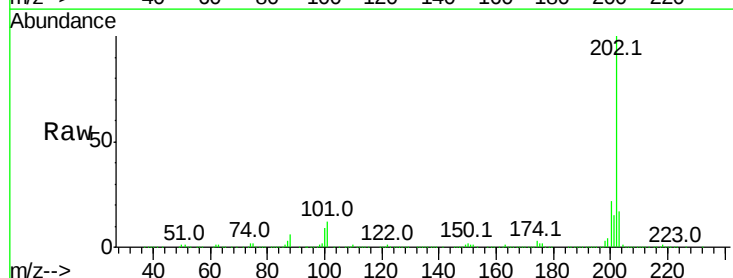
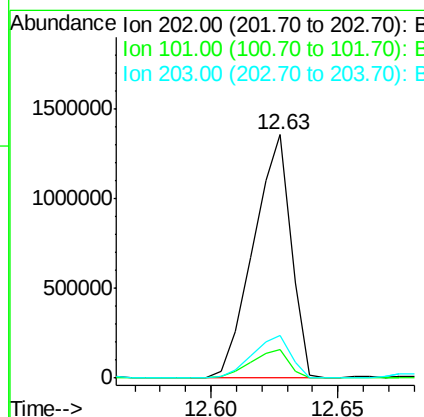
Manual Integrations
 APPROVED

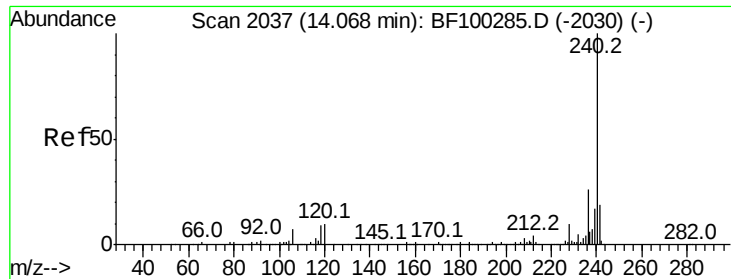
SOHIL
 11/17/2017 1:25:02 PM



#74
 Fluoranthene
 Concen: 99.213 ng
 RT: 12.63 min Scan# 1792
 Delta R.T. 0.01 min
 Lab File: BF100636.D
 Acq: 16 Nov 2017 17:47

Tgt Ion	Ratio	Lower	Upper
202	100		
101	11.9	0.0	34.1
203	17.5	0.0	38.1





#75

Chrysene-d12

Concen: 20.000 ng

RT: 14.04 min Scan# 2033

Delta R.T. -0.00 min

Lab File: BF100636.D

Acq: 16 Nov 2017 17:47

Instrument :

BNA_F

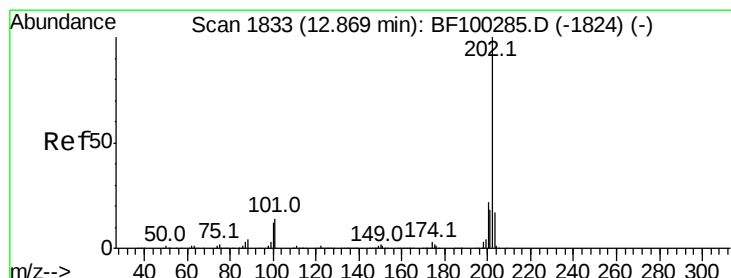
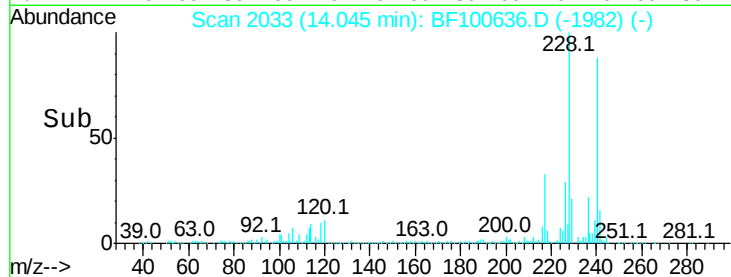
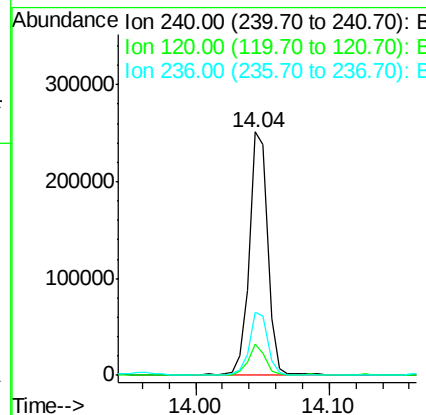
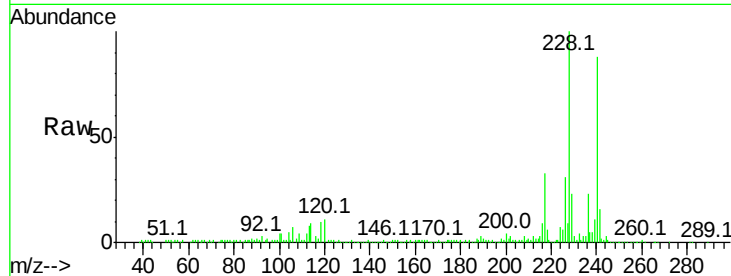
ClientSampleId :

PL-01-111317-D

Tot Ion	Ratio	Lower	Upper
240	100		
120	12.7	9.5	14.3
236	25.7	20.7	31.1

Manual Integrations
APPROVED

SOHIL
11/17/2017 1:25:02 PM



#77

Pyrene

Concen: 76.187 ng

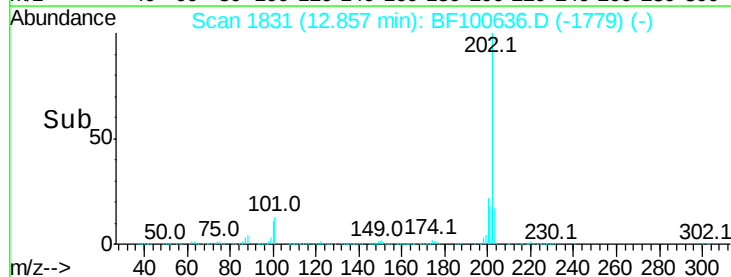
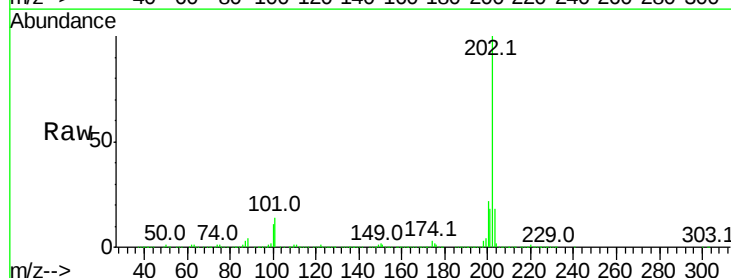
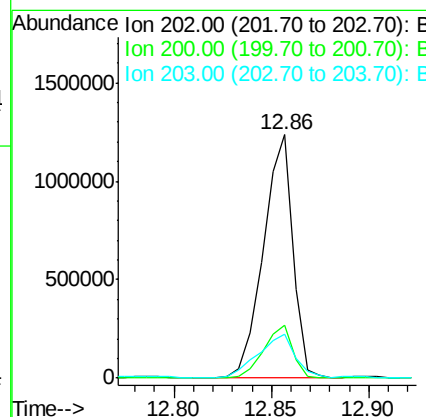
RT: 12.86 min Scan# 1831

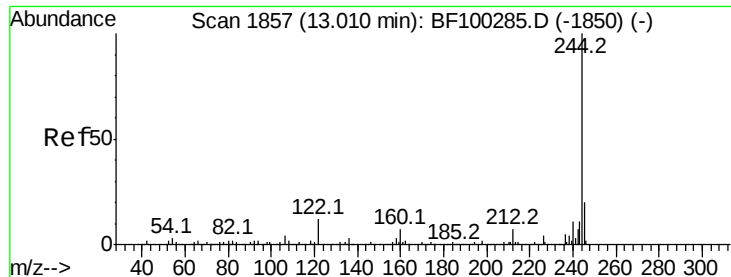
Delta R.T. 0.01 min

Lab File: BF100636.D

Acq: 16 Nov 2017 17:47

Tgt Ion	Ratio	Lower	Upper
202	100		
200	21.6	17.4	26.2
203	18.1	14.3	21.5





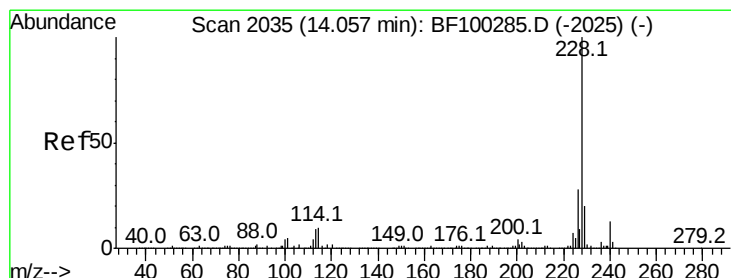
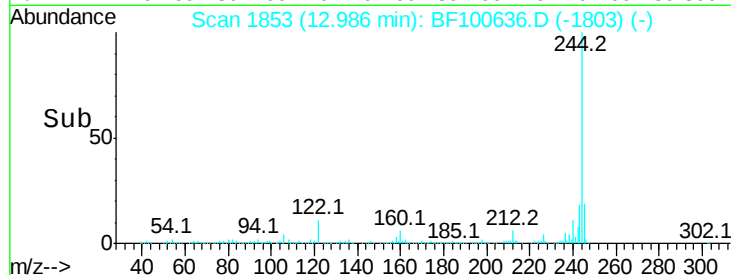
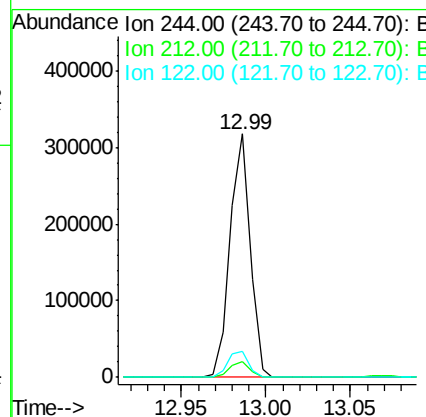
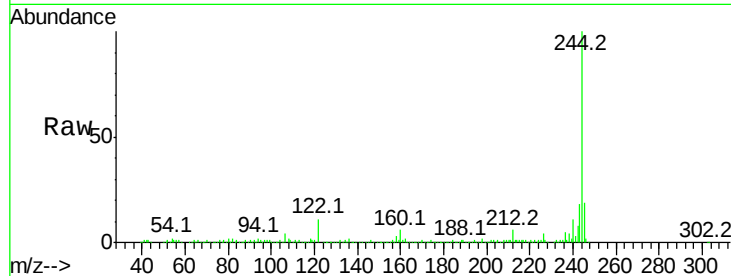
#78
 Terphenyl-d14
 Concen: 25.508 ng
 RT: 12.99 min Scan# 1853
 Delta R.T. -0.01 min
 Lab File: BF100636.D
 Acq: 16 Nov 2017 17:47

Instrument :
 BNA_F
 ClientSampleId :
 PL-01-111317-D

Tot Ion	Ratio	Resp	Lower	Upper
244	100	263559		
212	6.4		5.4	8.0
122	10.7		11.0	16.4

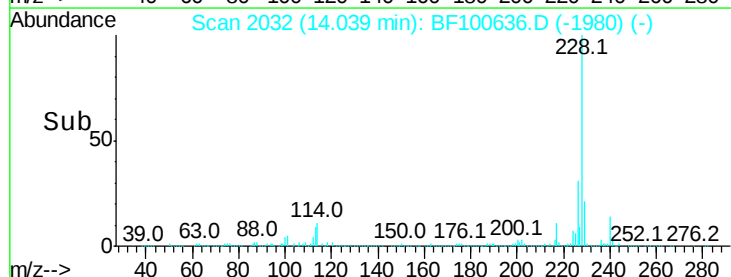
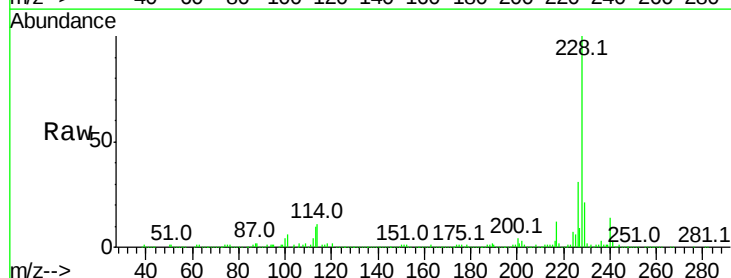
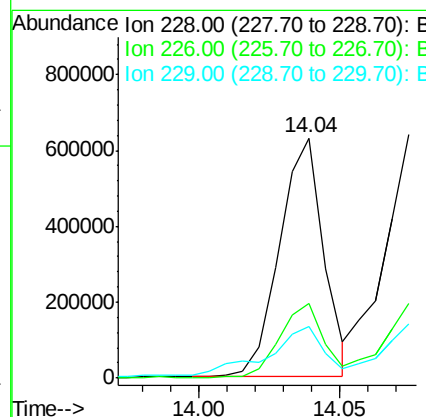
Manual Integrations
 APPROVED

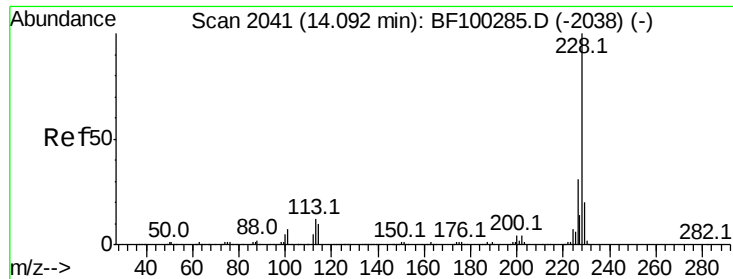
SOHIL
 11/17/2017 1:25:02 PM



#80
 Benzo(a)anthracene
 Concen: 47.588 ng
 RT: 14.04 min Scan# 2032
 Delta R.T. 0.01 min
 Lab File: BF100636.D
 Acq: 16 Nov 2017 17:47

Tgt Ion	Ratio	Resp	Lower	Upper
228	100	680349		
226	31.2		22.6	33.8
229	21.3		15.8	23.6





#82

Chrysene

Concen: 45.488 ng

RT: 14.07 min Scan# 2038

Delta R.T. -0.00 min

Lab File: BF100636.D

Acq: 16 Nov 2017 17:47

Instrument :

BNA_F

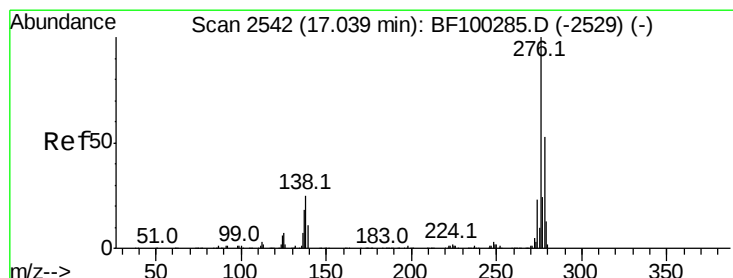
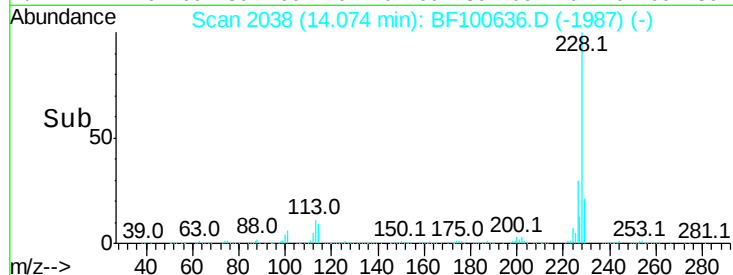
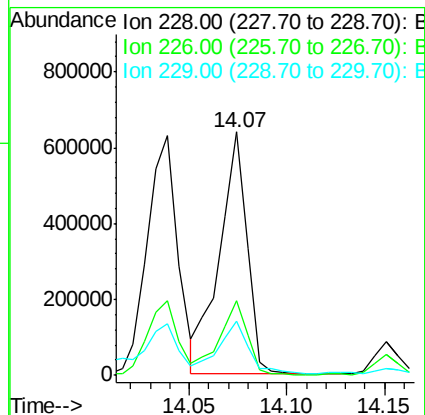
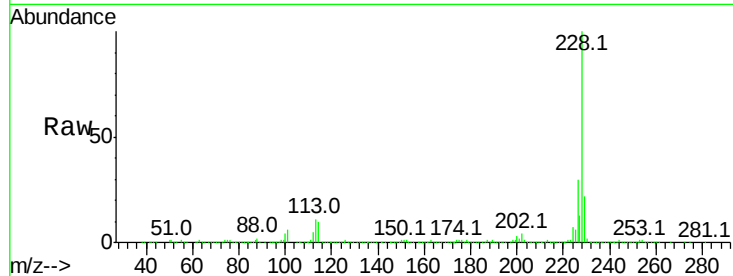
ClientSampleId :

PL-01-111317-D

Tot Ion:	228	Resp:	629760
Ion Ratio	Lower	Upper	
228	100		
226	30.5	25.0	37.6
229	22.2	16.2	24.4

Manual Integrations
APPROVED

SOHIL
11/17/2017 1:25:02 PM



#85

Indeno(1,2,3-cd)pyrene

Concen: 20.232 ng m

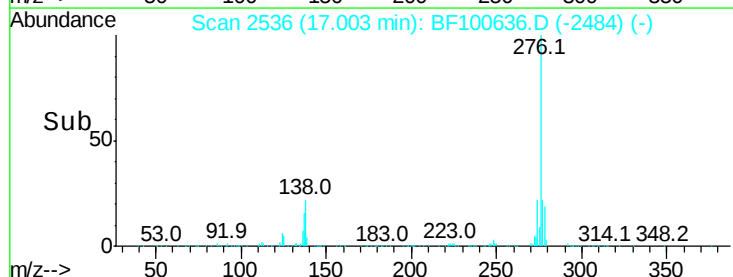
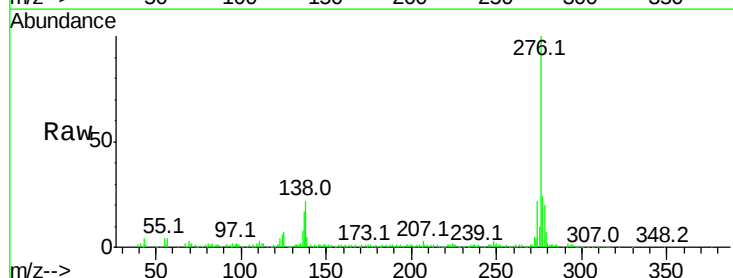
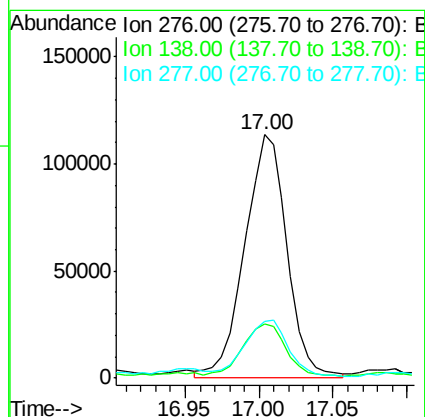
RT: 17.00 min Scan# 2536

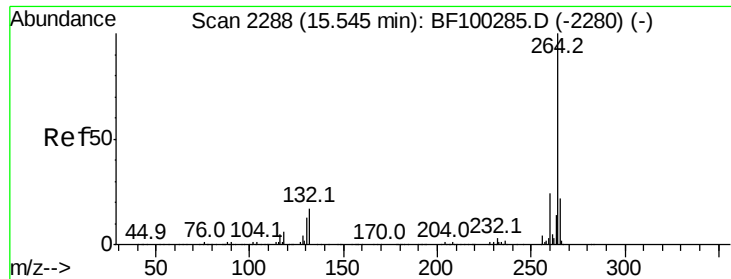
Delta R.T. 0.01 min

Lab File: BF100636.D

Acq: 16 Nov 2017 17:47

Tgt Ion:	276	Resp:	226559
Ion Ratio	Lower	Upper	
276	100		
138	4.8	25.0	37.6#
277	4.7	20.1	30.1#





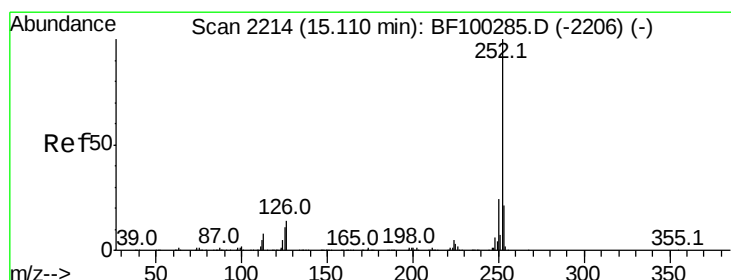
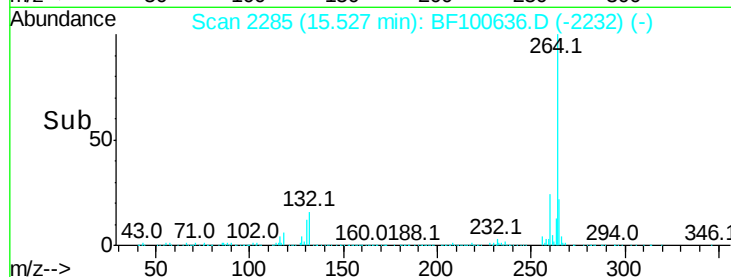
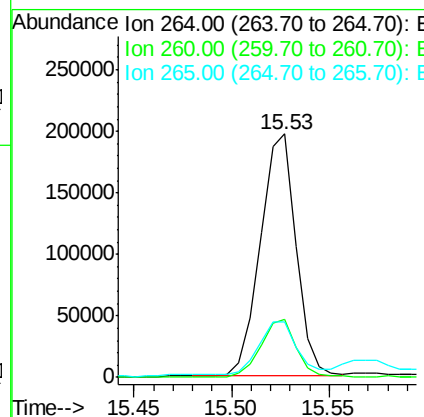
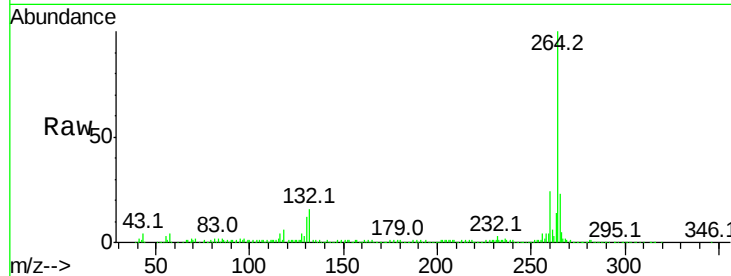
#86
Pervlene-d12
Concen: 20.000 ng
RT: 15.53 min Scan# 2285
Delta R.T. 0.01 min
Lab File: BF100636.D
Acq: 16 Nov 2017 17:47

Instrument :
BNA_F
ClientSampleId :
PL-01-111317-D

Tot Ion	Ratio	Lower	Upper
264	100		
260	24.0	19.2	28.8
265	22.7	17.5	26.3

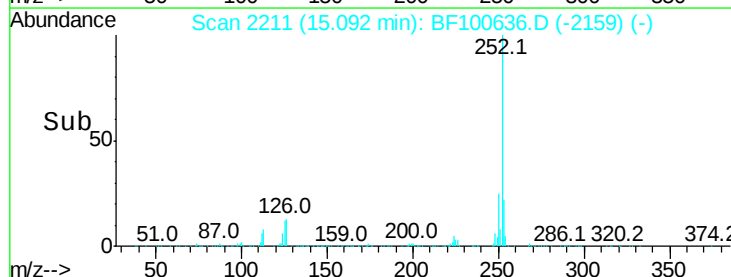
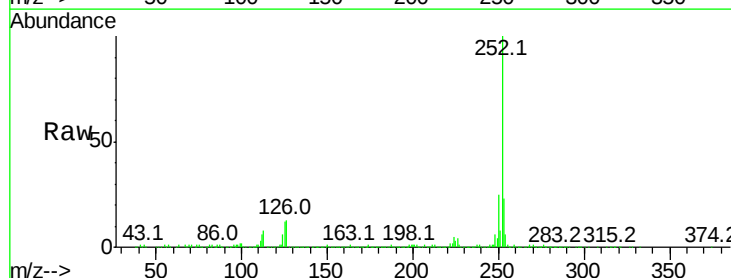
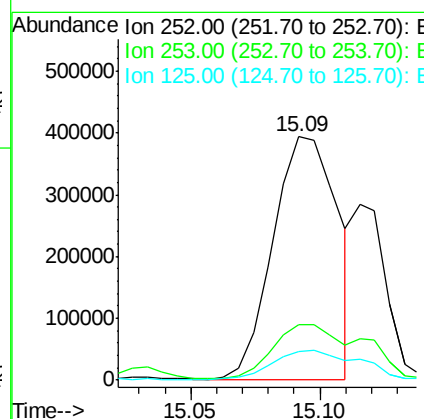
Manual Integrations
APPROVED

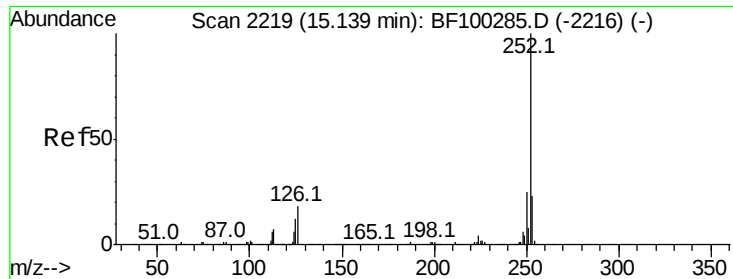
SOHIL
11/17/2017 1:25:02 PM



#87
Benzo(b)fluoranthene
Concen: 46.463 ng m
RT: 15.09 min Scan# 2211
Delta R.T. 0.01 min
Lab File: BF100636.D
Acq: 16 Nov 2017 17:47

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.7	17.0	25.6
125	11.9	9.0	13.6





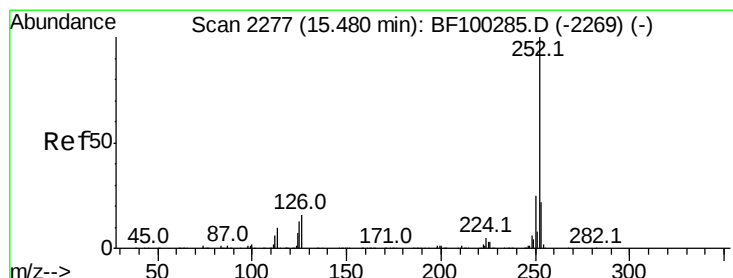
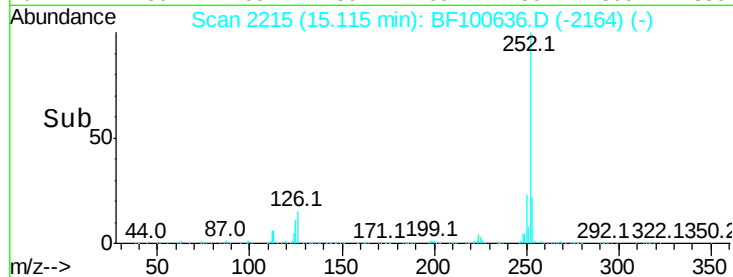
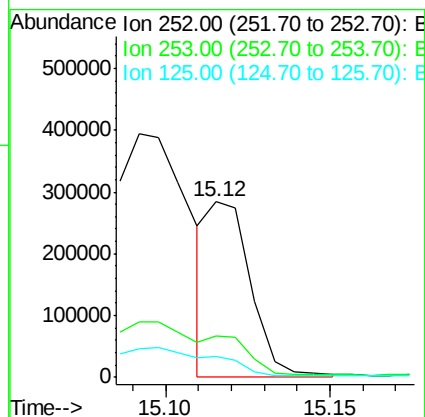
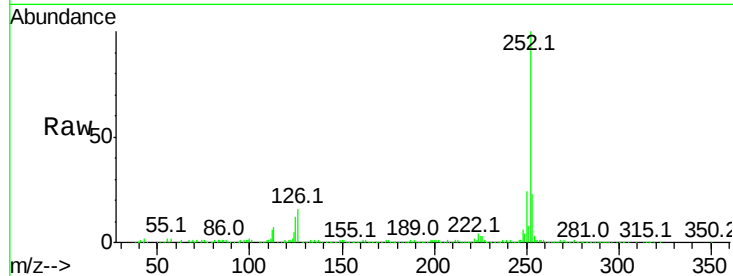
#88
Benzo(k)fluoranthene
Concen: 18.324 ng m
RT: 15.12 min Scan# 2215
Delta R.T. -0.00 min
Lab File: BF100636.D
Acq: 16 Nov 2017 17:47

Instrument :
BNA_F
ClientSampled :
PL-01-111317-D

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.3	17.9	26.9
125	11.8	10.2	15.2

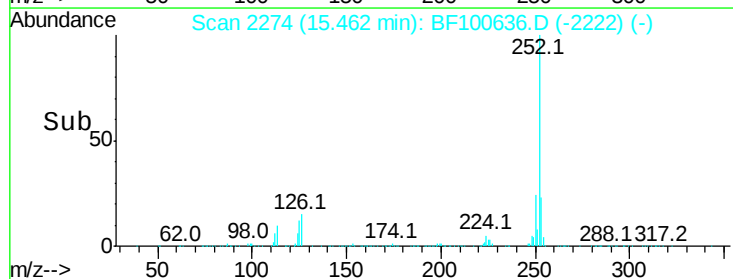
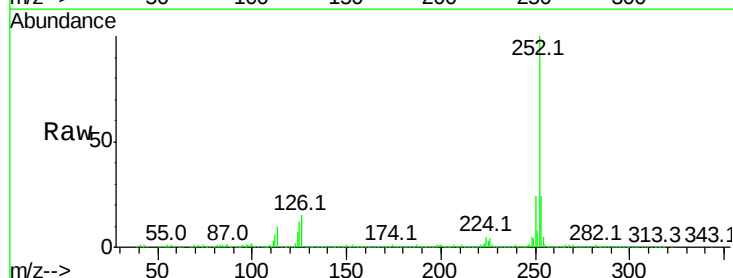
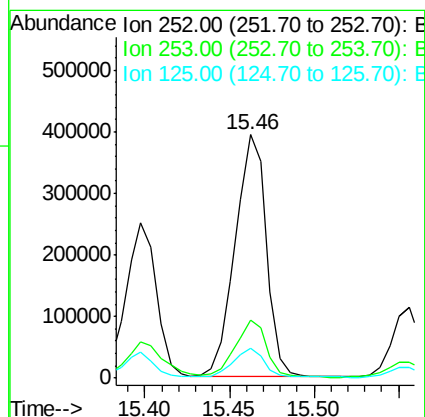
Manual Integrations
APPROVED

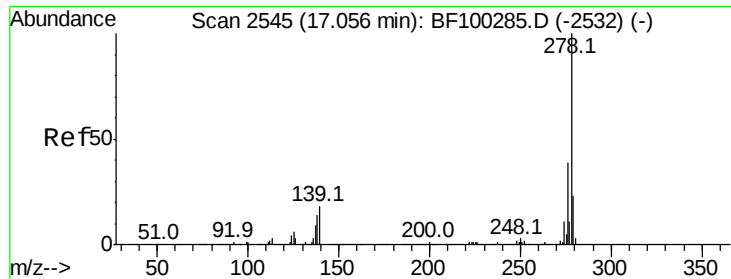
SOHIL
11/17/2017 1:25:02 PM



#89
Benzo(a)pyrene
Concen: 38.817 ng
RT: 15.46 min Scan# 2274
Delta R.T. 0.01 min
Lab File: BF100636.D
Acq: 16 Nov 2017 17:47

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.9	17.1	25.7
125	12.2	9.8	14.6





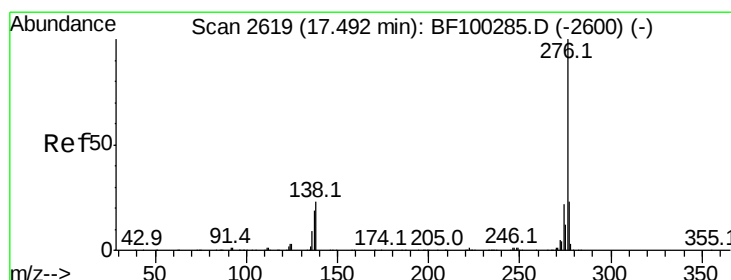
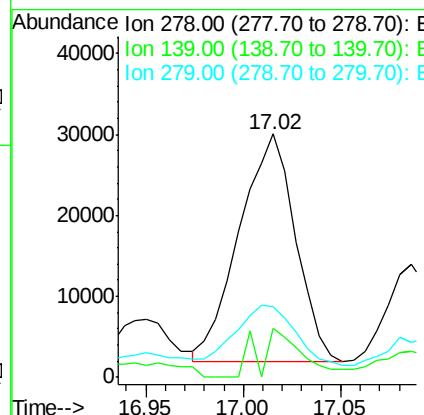
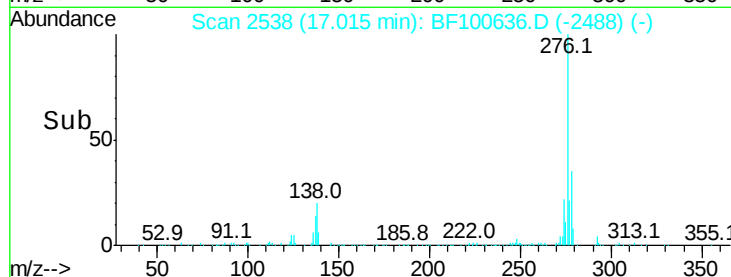
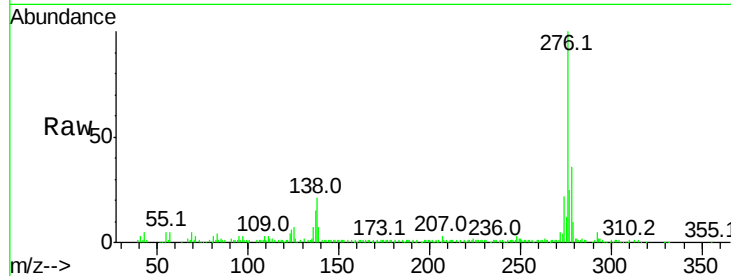
#90
Dibenzo(a,h)anthracene
Concen: 5.216 ng
RT: 17.02 min Scan# 2538
Delta R.T. -0.01 min
Lab File: BF100636.D
Acq: 16 Nov 2017 17:47

Instrument :
BNA_F
ClientSampleId :
PL-01-111317-D

Tot Ion	Ratio	Lower	Upper
278	100		
139	19.9	15.9	23.9
279	29.2	19.0	28.4

Manual Integrations
APPROVED

SOHIL
11/17/2017 1:25:02 PM



#91
Benzo(g,h,i)perylene
Concen: 17.927 ng
RT: 17.46 min Scan# 2613
Delta R.T. 0.01 min
Lab File: BF100636.D
Acq: 16 Nov 2017 17:47

Tgt Ion	Ratio	Lower	Upper
276	100		
277	25.0	17.9	26.9
138	22.5	21.8	32.8

