

Data Path : Z:\HPCHEM1\BNA F\DATA\BF041218\
 Data File : BF104460.D
 Acq On : 12 Apr 2018 19:23
 Operator : JU/SJ
 Sample : J2163-01 5X
 Misc :
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 PL-01-041118-A

Manual Integrations
 APPROVED

Sohil
 4/13/2018 4:44:21 PM

Quant Time: Apr 13 01:00:54 2018
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF040618.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Apr 12 17:07:03 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.81	152	134659	20.00	ng	0.00
21) Naphthalene-d8	8.09	136	536824	20.00	ng	0.00
38) Acenaphthene-d10	9.85	164	230900	20.00	ng	0.00
63) Phenanthrene-d10	11.34	188	317740	20.00	ng	0.00
75) Chrysene-d12	14.01	240	189663	20.00	ng	0.02
86) Perylene-d12	15.47	264	182579	20.00	ng	0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.41	112	216227	24.55	ng	0.00
7) Phenol-d6	6.43	99	260805	24.10	ng	-0.01
23) Nitrobenzene-d5	7.37	82	146346	17.80	ng	-0.01
41) 2,4,6-Tribromophenol	10.64	330	46255	19.31	ng	0.00
44) 2-Fluorobiphenyl	9.17	172	280175	19.17	ng	0.00
78) Terphenyl-d14	12.93	244	182459	21.93	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	8.12	128	499422	18.683	ng	99
37) 2-Methylnaphthalene	8.81	142	568795	32.896	ng	98
45) 1,1'-Biphenyl	9.27	154	135910	7.007	ng	98
48) Acenaphthylene	9.72	152	154401	6.423	ng	# 93
51) Acenaphthene	9.89	154	680974	46.429	ng	99
54) Dibenzofuran	10.06	168	419817	20.539	ng	# 93
57) Fluorene	10.41	166	1182113	79.456	ng	98
70) Phenanthrene	11.39	178	4057083	229.282	ng	99
71) Anthracene	11.44	178	1803787	100.283	ng	99
72) Carbazole	11.57	167	204349	11.626	ng	98
74) Fluoranthene	12.59	202	3193209	172.722	ng	98
77) Pyrene	12.82	202	3445367m	245.074	ng	
80) Benzo(a)anthracene	14.00	228	2150190	189.767	ng	96
82) Chrysene	14.04	228	1749442	150.317	ng	96
85) Indeno(1,2,3-cd)pyrene	16.94	276	565836m	57.233	ng	
87) Benzo(b)fluoranthene	15.06	252	1667178m	144.578	ng	
88) Benzo(k)fluoranthene	15.08	252	351390m	32.277	ng	
89) Benzo(a)pyrene	15.42	252	1223921	118.623	ng	96
90) Dibenzo(a,h)anthracene	16.94	278	180085m	21.252	ng	
91) Benzo(a,h,i)perylene	17.40	276	613614	74.741	ng	94

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

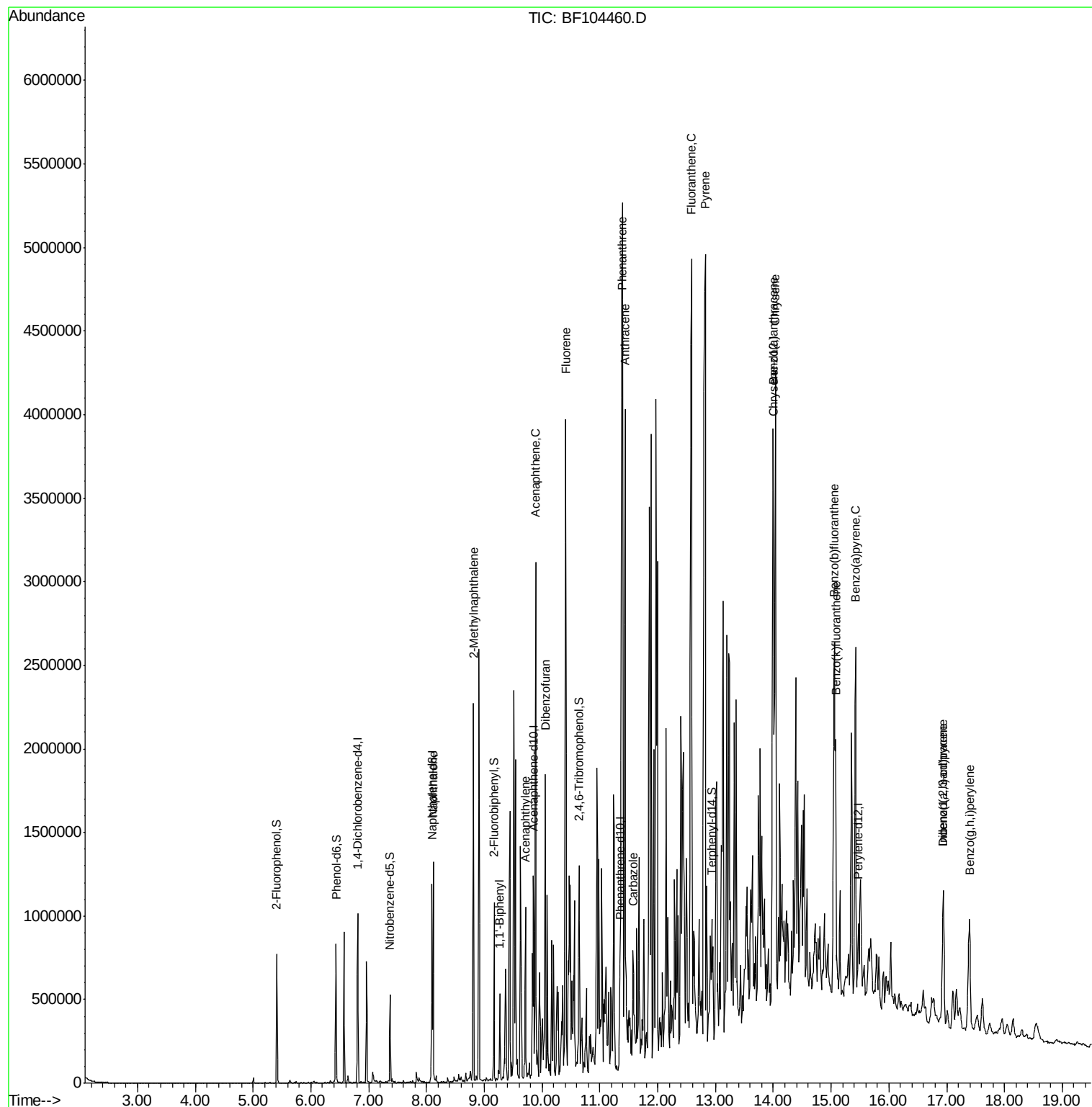
Data Path : Z:\HPCHEM1\BNA F\DATA\BF041218\
Data File : BF104460.D
Acq On : 12 Apr 2018 19:23
Operator : JU/SJ
Sample : J2163-01 5X
Misc :
ALS Vial : 16 Sample Multiplier: 1

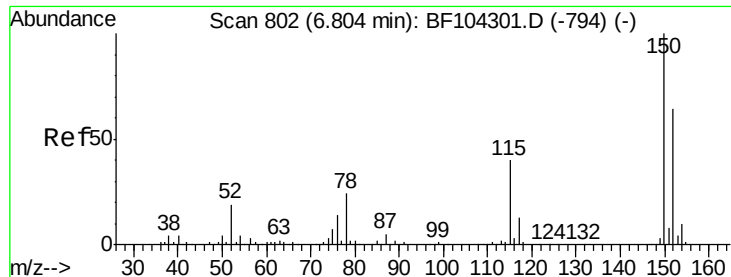
Instrument :
BNA_F
ClientSampleId :
PL-01-041118-A

Manual Integrations
APPROVED

Sohil
4/13/2018 4:44:21 PM

Quant Time: Apr 13 01:00:54 2018
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF040618.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Apr 12 17:07:03 2018
Response via : Initial Calibration





#1

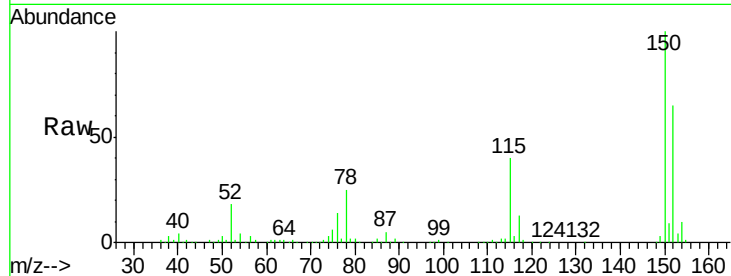
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.81 min Scan# 803
Delta R.T. -0.00 min
Lab File: BF104460.D
Acq: 12 Apr 2018 19:23

Instrument :
BNA_F
ClientSampleId :
PL-01-041118-A

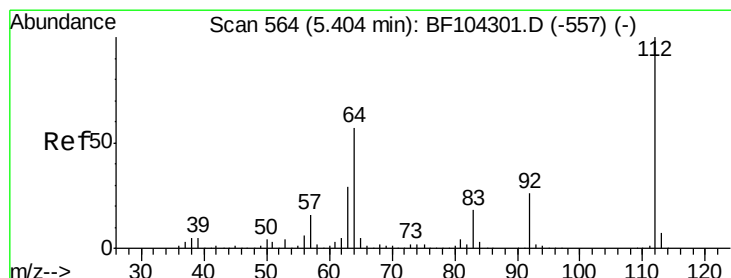
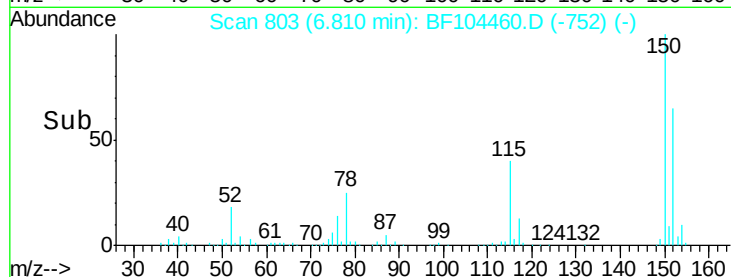
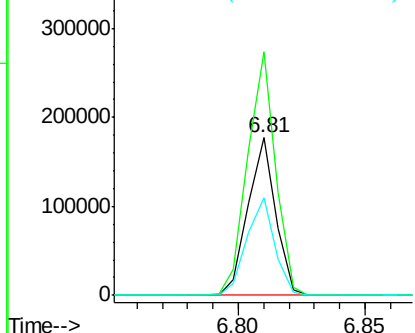
Tot Ion	Ratio	Lower	Upper
152	100		
150	154.6	124.6	186.8
115	61.7	50.1	75.1

Manual Integrations
APPROVED

Sohil
4/13/2018 4:44:21 PM



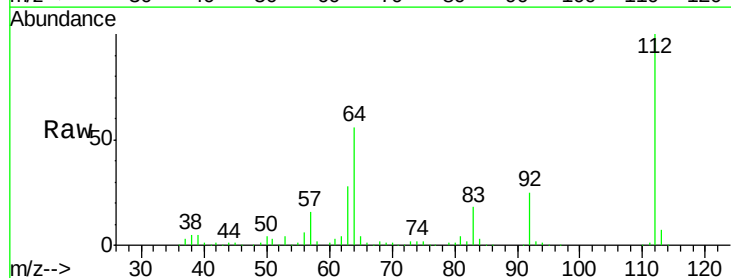
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



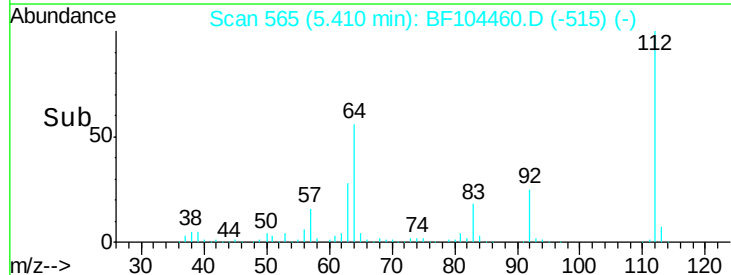
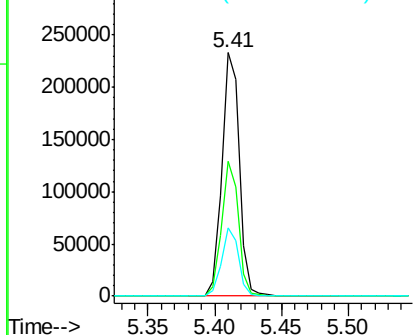
#5

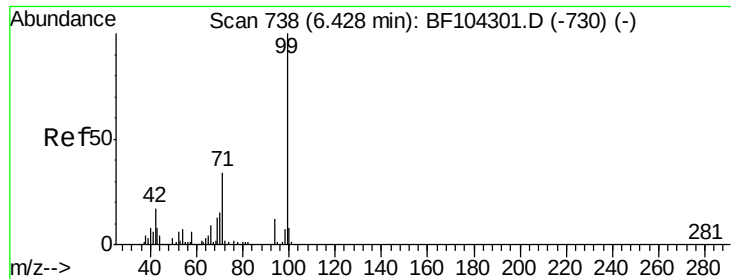
2-Fluorophenol
Concen: 24.553 ng
RT: 5.41 min Scan# 565
Delta R.T. -0.01 min
Lab File: BF104460.D
Acq: 12 Apr 2018 19:23

Tgt Ion	Ratio	Lower	Upper
112	100		
64	55.5	47.9	71.9
63	28.2	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: 24.103 ng

RT: 6.43 min Scan# 739

Delta R.T. -0.01 min

Lab File: BF104460.D

Acq: 12 Apr 2018 19:23

Instrument :

BNA_F

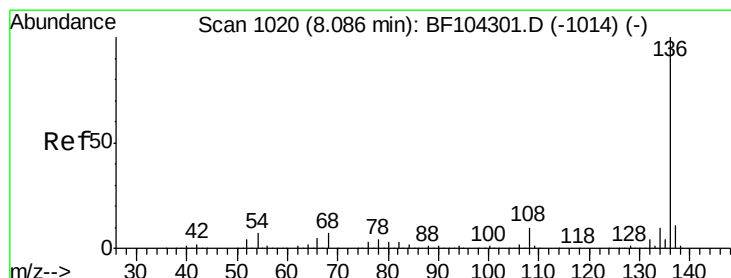
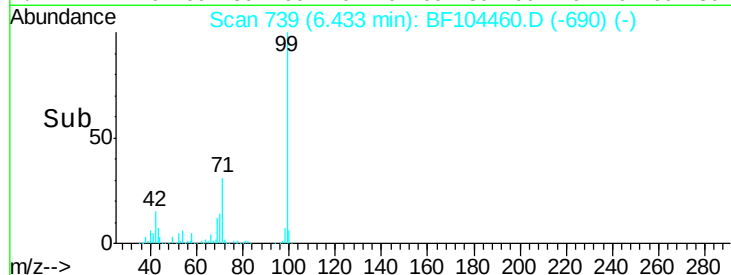
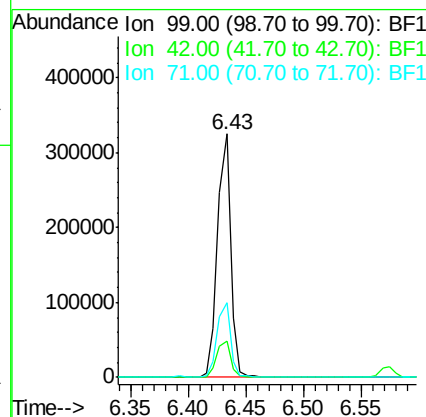
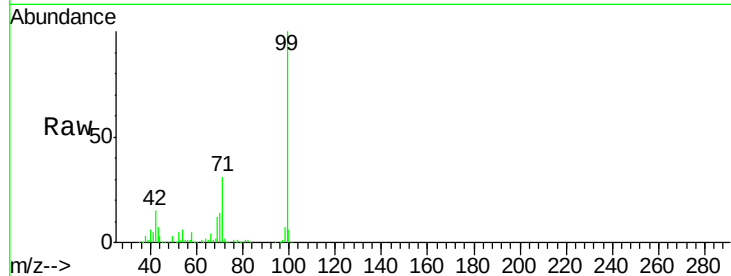
ClientSampleId :

PL-01-041118-A

Tot Ion	Ion	Ratio	Resp	Lower	Upper
99	100		260805		
42	14.8	14.5	21.7		
71	30.6	25.4	38.0		

Manual Integrations
APPROVED

Sohil
4/13/2018 4:44:21 PM



#21

Naphthalene-d8

Concen: 20.000 ng

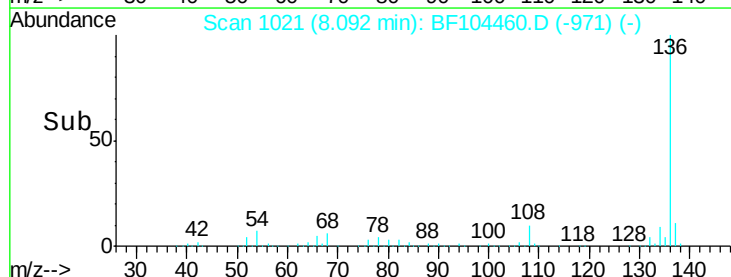
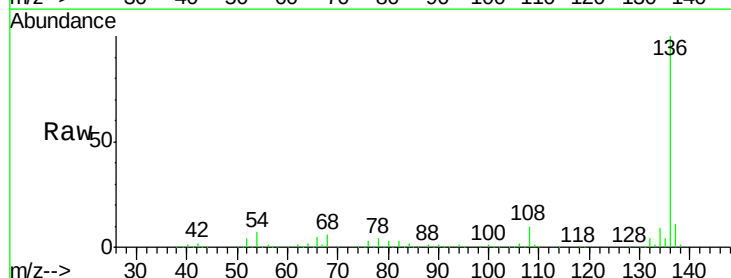
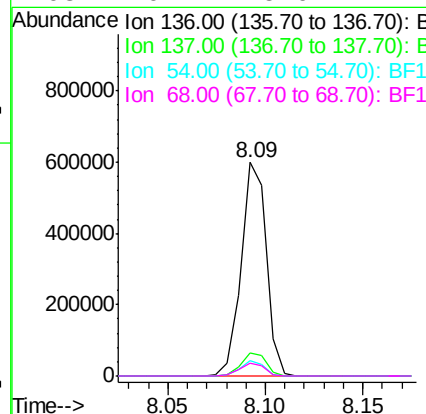
RT: 8.09 min Scan# 1021

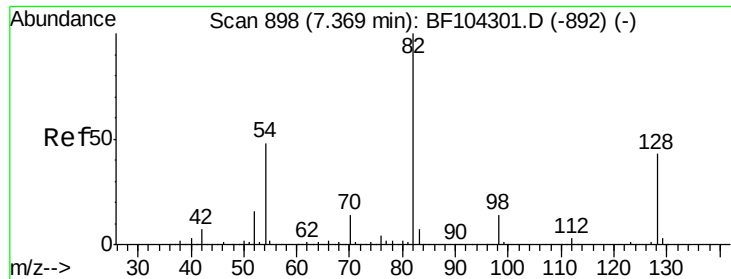
Delta R.T. -0.01 min

Lab File: BF104460.D

Acq: 12 Apr 2018 19:23

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
136	100		536824		
137	11.1	8.9	13.3		
54	7.3	6.6	9.8		
68	6.1	5.0	7.4		





#23

Nitrobenzene-d5

Concen: 17.801 ng

RT: 7.37 min Scan# 898

Delta R.T. -0.01 min

Lab File: BF104460.D

Acq: 12 Apr 2018 19:23

Instrument :

BNA_F

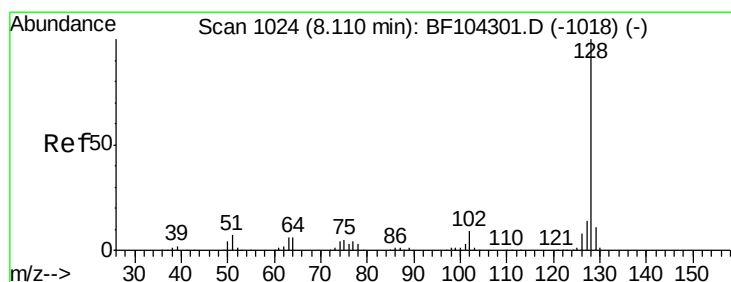
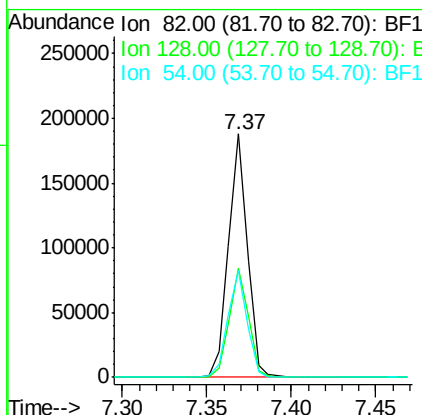
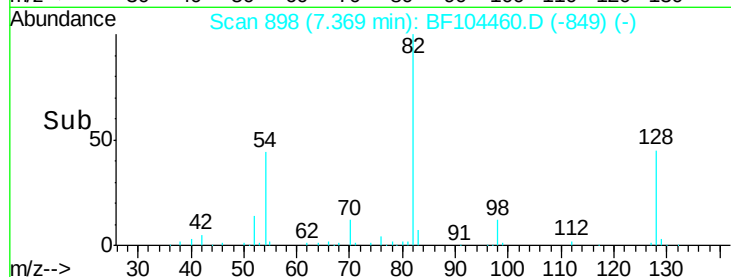
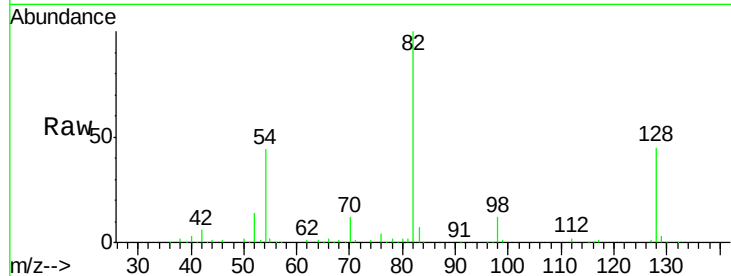
ClientSampleId :

PL-01-041118-A

Tot Ion:	82	Resp:	146346
Ion Ratio	Lower	Upper	
82	100		
128	44.9	36.1	54.1
54	43.7	41.4	62.2

Manual Integrations
APPROVED

Sohil
4/13/2018 4:44:21 PM



#31

Naphthalene

Concen: 18.683 ng

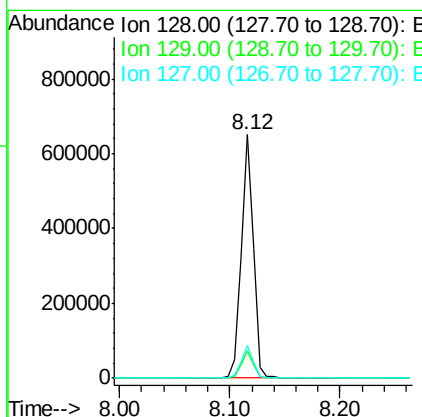
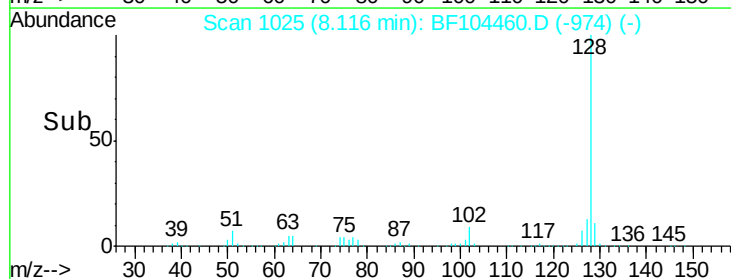
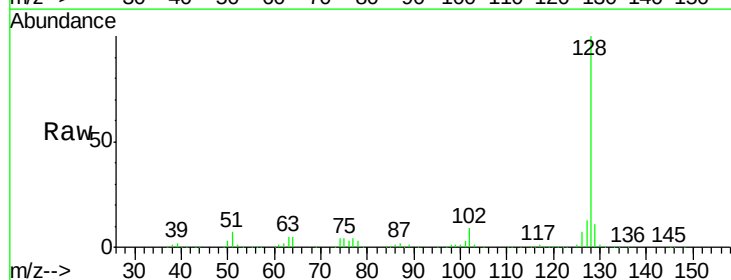
RT: 8.12 min Scan# 1025

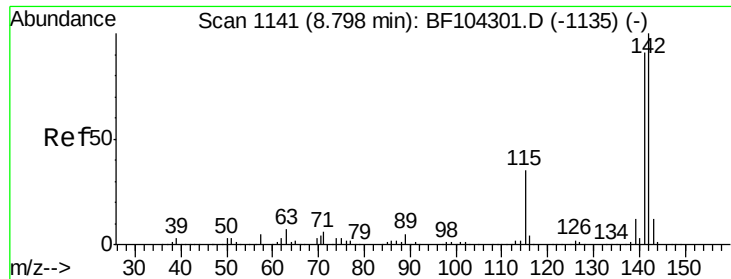
Delta R.T. -0.00 min

Lab File: BF104460.D

Acq: 12 Apr 2018 19:23

Tgt Ion:	128	Resp:	499422
Ion Ratio	Lower	Upper	
128	100		
129	11.3	8.8	13.2
127	13.3	10.9	16.3





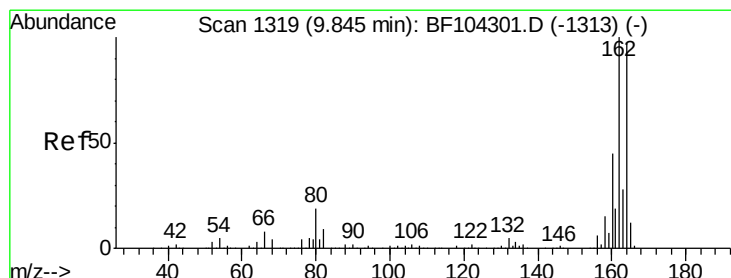
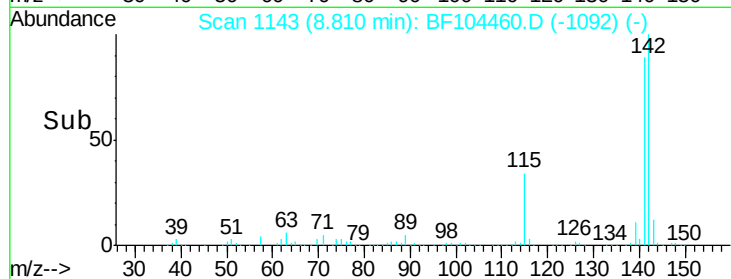
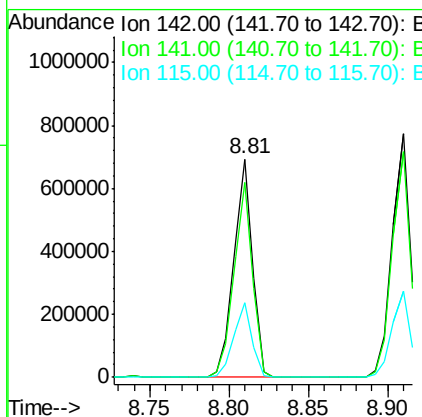
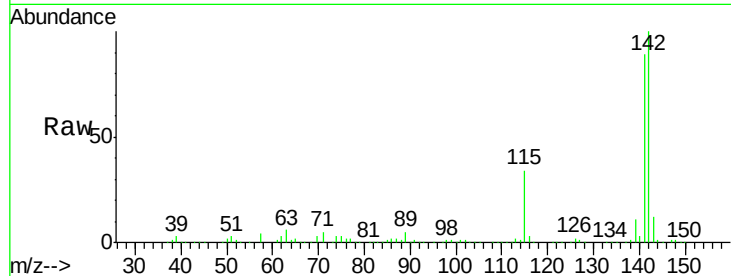
#37
 2-Methylnaphthalene
 Concen: 32.896 ng
 RT: 8.81 min Scan# 1143
 Delta R.T. -0.00 min
 Lab File: BF104460.D
 Acq: 12 Apr 2018 19:23

Instrument :
 BNA_F
 ClientSampleID :
 PL-01-041118-A

Tot Ion:	142	Resp:	568795
Ion Ratio	Lower	Upper	
142	100		
141	89.4	70.8	106.2
115	34.3	26.1	39.1

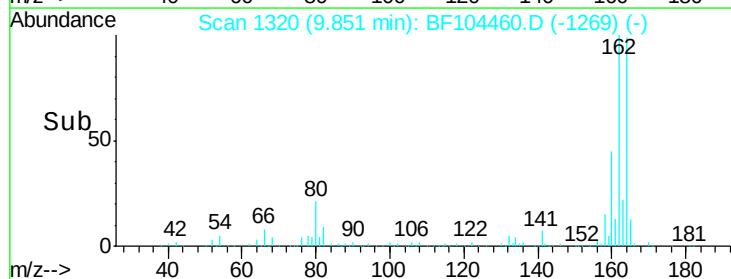
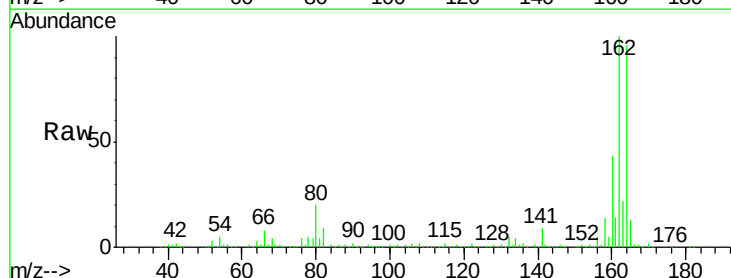
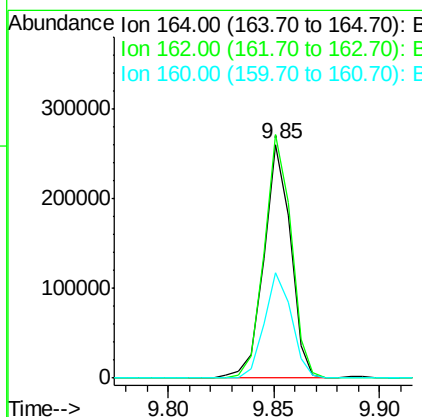
Manual Integrations
 APPROVED

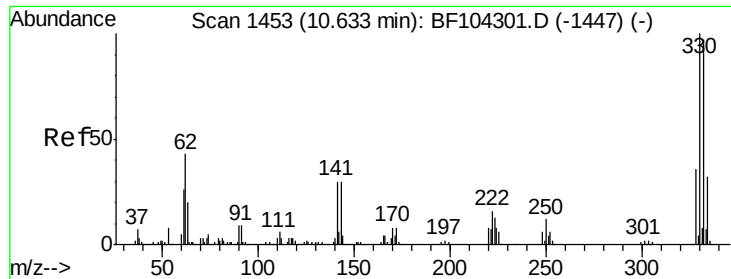
Sohil
 4/13/2018 4:44:21 PM



#38
 Acenaphthene-d10
 Concen: 20.000 ng
 RT: 9.85 min Scan# 1320
 Delta R.T. -0.00 min
 Lab File: BF104460.D
 Acq: 12 Apr 2018 19:23

Tgt Ion:	164	Resp:	230900
Ion Ratio	Lower	Upper	
164	100		
162	104.2	86.1	129.1
160	45.3	38.3	57.5





#41

2,4,6-Tribromophenol

Concen: 19.312 ng

RT: 10.64 min Scan# 1455

Delta R.T. -0.00 min

Lab File: BF104460.D

Acq: 12 Apr 2018 19:23

Instrument :

BNA_F

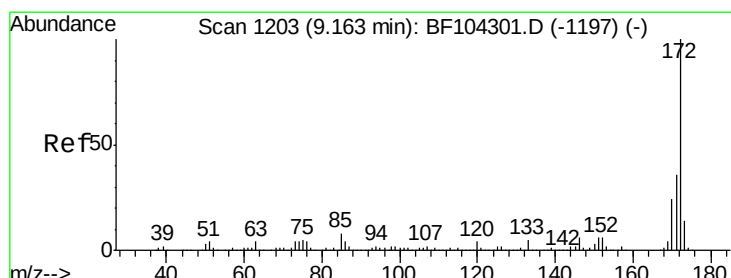
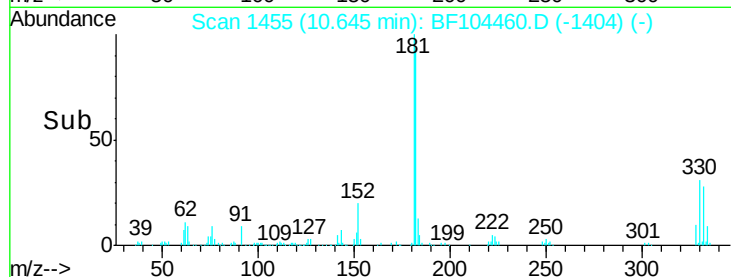
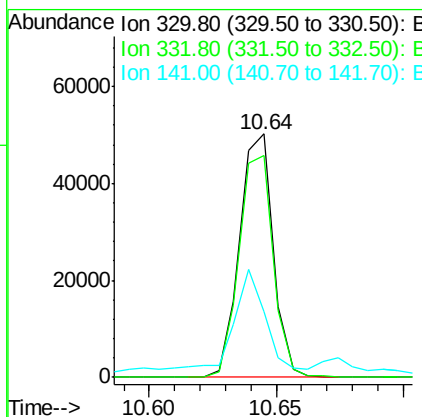
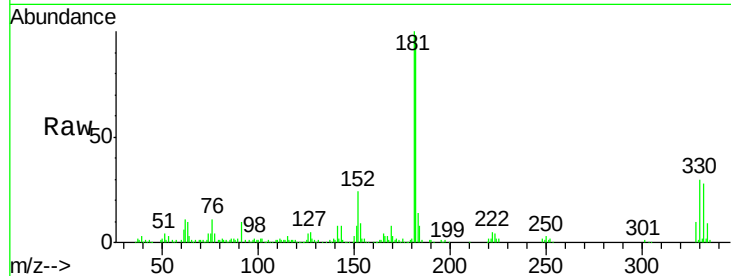
ClientSampleId :

PL-01-041118-A

Tot Ion:	330	Resp:	46255
Ion Ratio		Lower	Upper
330	100		
332	93.5	77.0	115.6
141	36.3	29.9	44.9

Manual Integrations
APPROVED

Sohil
4/13/2018 4:44:21 PM



#44

2-Fluorobiphenyl

Concen: 19.169 ng

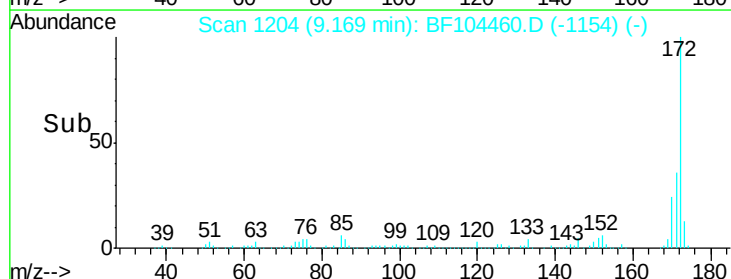
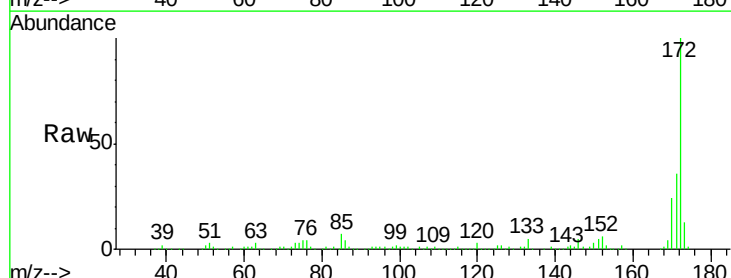
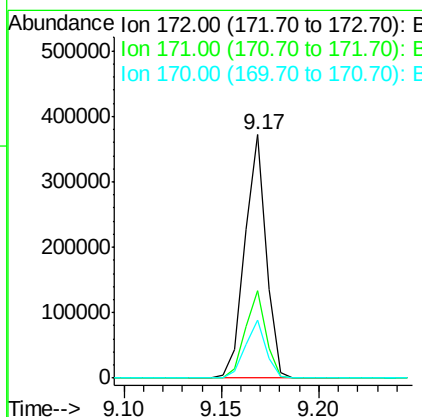
RT: 9.17 min Scan# 1204

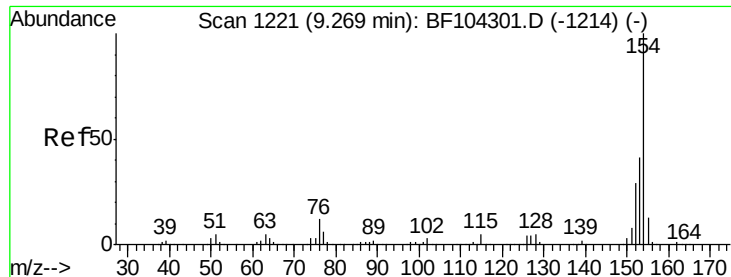
Delta R.T. -0.01 min

Lab File: BF104460.D

Acq: 12 Apr 2018 19:23

Tgt Ion:	172	Resp:	280175
Ion Ratio		Lower	Upper
172	100		
171	35.7	29.7	44.5
170	23.9	19.6	29.4





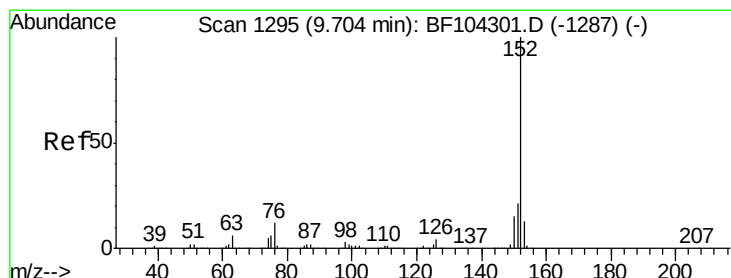
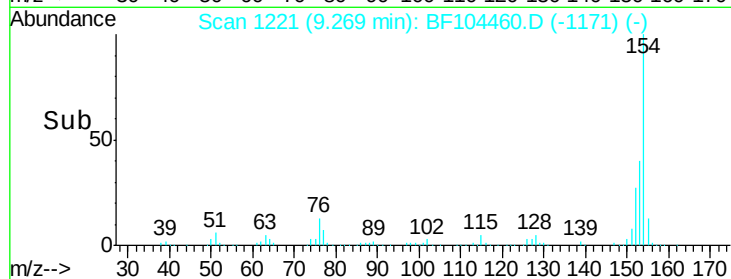
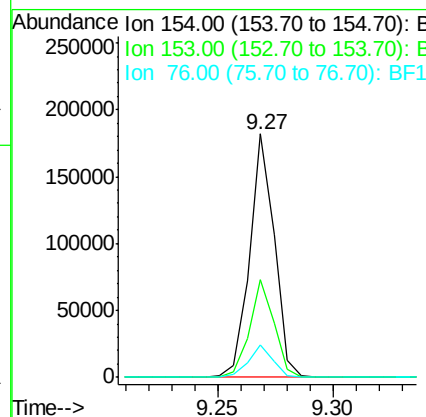
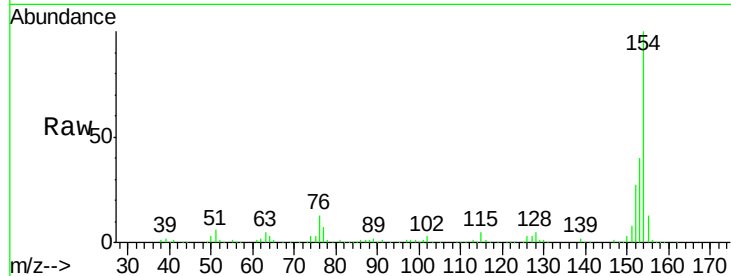
#45
 1,1'-Biphenyl
 Concen: 7.007 ng
 RT: 9.27 min Scan# 1221
 Delta R.T. -0.01 min
 Lab File: BF104460.D
 Acq: 12 Apr 2018 19:23

Instrument :
 BNA_F
 ClientSampleId :
 PL-01-041118-A

Tot Ion	Ratio	Resp	Lower	Upper
154	100			
153	40.2	21.3	61.3	
76	13.1	0.0	34.0	

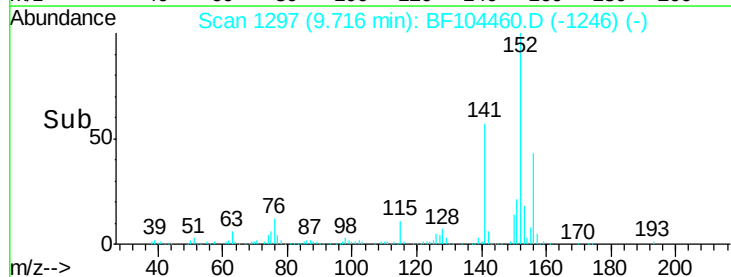
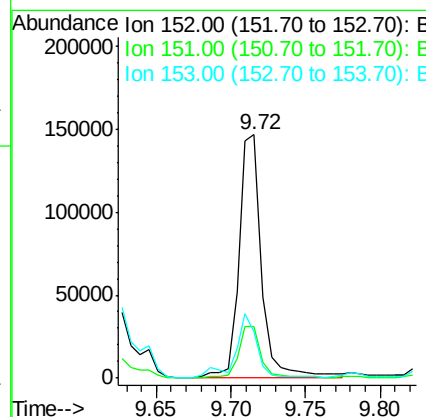
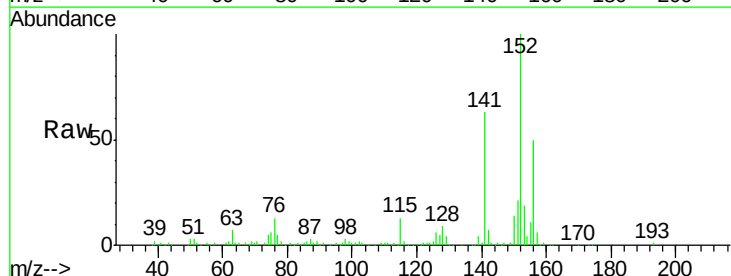
Manual Integrations
 APPROVED

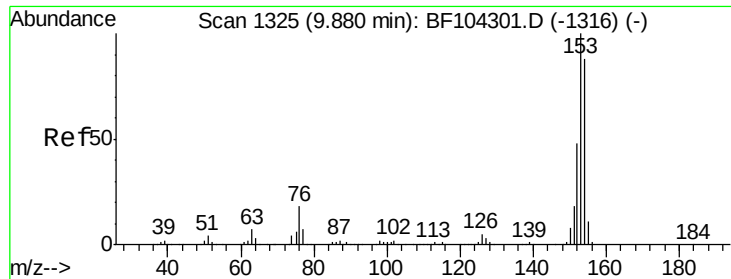
Sohil
 4/13/2018 4:44:21 PM



#48
 Acenaphthylene
 Concen: 6.423 ng
 RT: 9.72 min Scan# 1297
 Delta R.T. -0.00 min
 Lab File: BF104460.D
 Acq: 12 Apr 2018 19:23

Tgt Ion	Ratio	Resp	Lower	Upper
152	100			
151	21.4	16.3	24.5	
153	19.3	10.7	16.1	





#51

Acenaphthene

Concen: 46.429 ng

RT: 9.89 min Scan# 1327

Delta R.T. 0.01 min

Lab File: BF104460.D

Acq: 12 Apr 2018 19:23

Instrument :

BNA_F

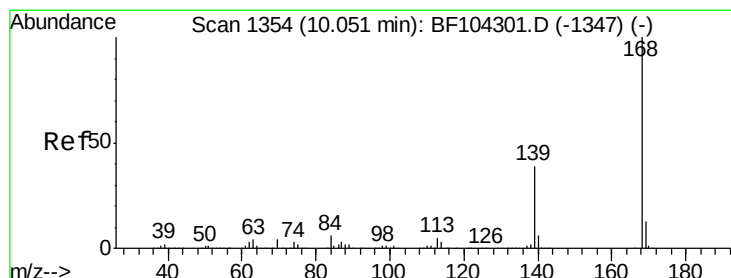
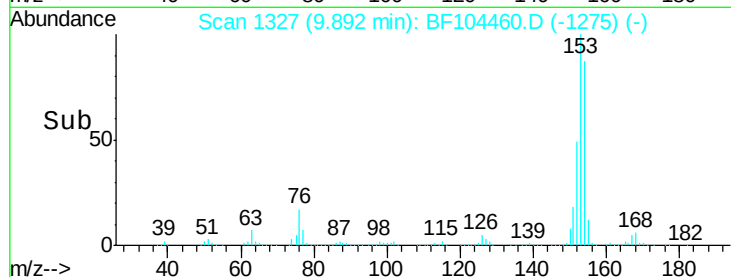
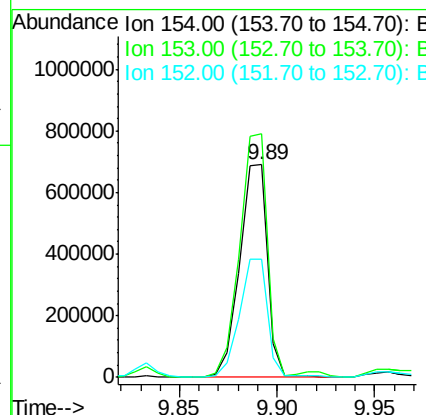
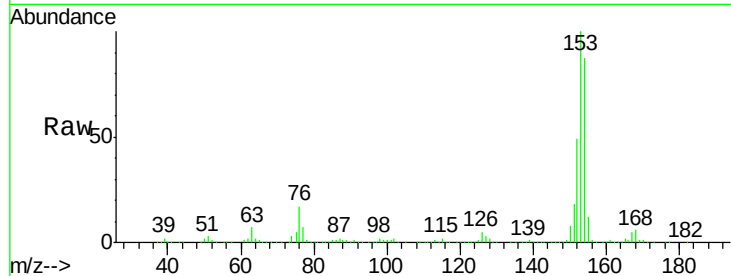
ClientSampleId :

PL-01-041118-A

Tot Ion:	154	Resp:	680974
Ion Ratio	Lower	Upper	
154	100		
153	114.7	91.2	136.8
152	55.9	43.8	65.8

Manual Integrations
APPROVED

Sohil
4/13/2018 4:44:21 PM



#54

Dibenzofuran

Concen: 20.539 ng

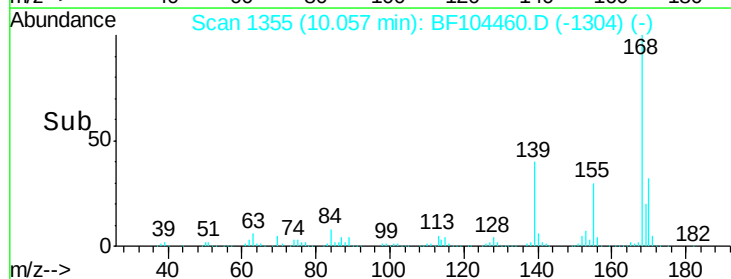
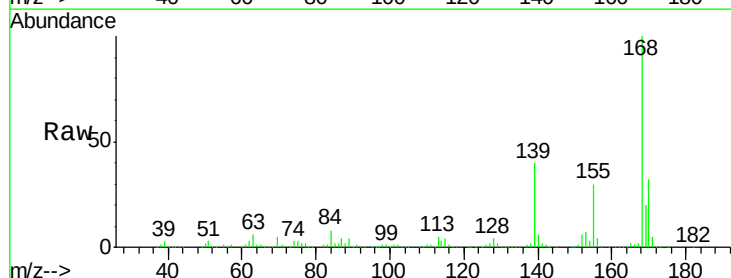
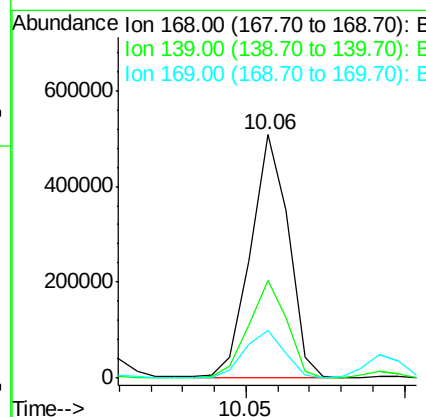
RT: 10.06 min Scan# 1355

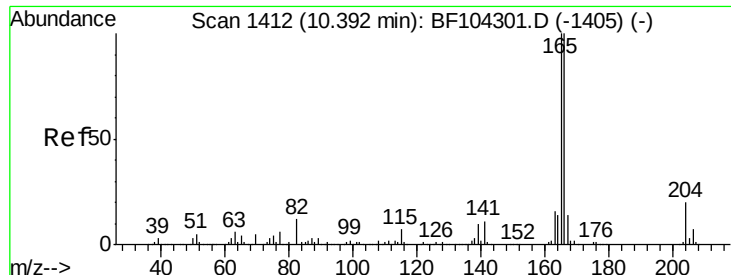
Delta R.T. -0.00 min

Lab File: BF104460.D

Acq: 12 Apr 2018 19:23

Tgt Ion:	168	Resp:	419817
Ion Ratio	Lower	Upper	
168	100		
139	40.2	30.1	45.1
169	19.8	10.9	16.3#





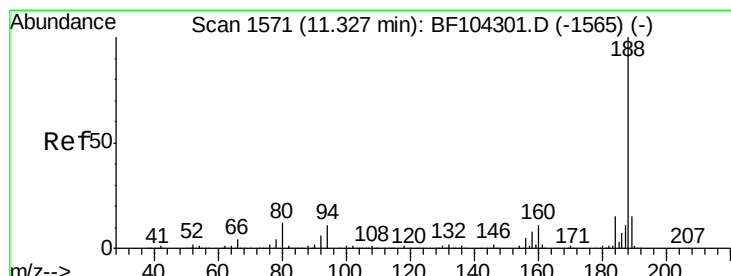
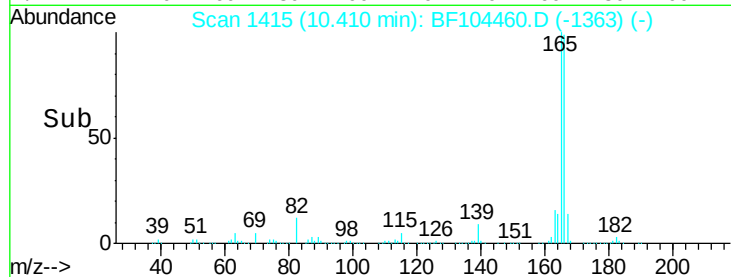
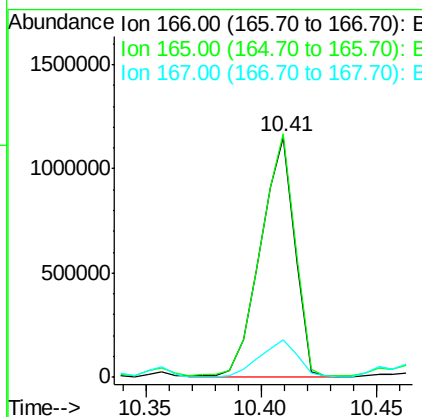
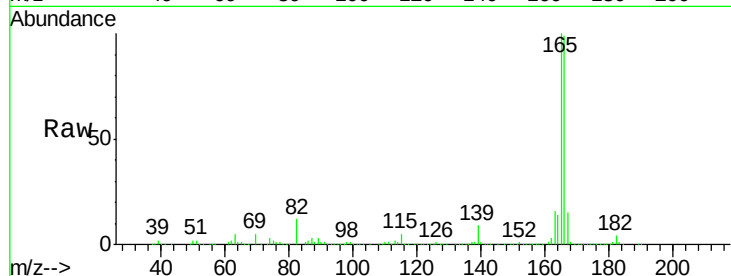
#57
Fluorene
 Concen: 79.456 ng
 RT: 10.41 min Scan# 1415
 Delta R.T. 0.01 min
 Lab File: BF104460.D
 Acq: 12 Apr 2018 19:23

Instrument :
 BNA_F
 ClientSampleId :
 PL-01-041118-A

Tot Ion	Ratio	Lower	Upper
166	100		
165	101.5	79.8	119.8
167	15.4	10.6	16.0

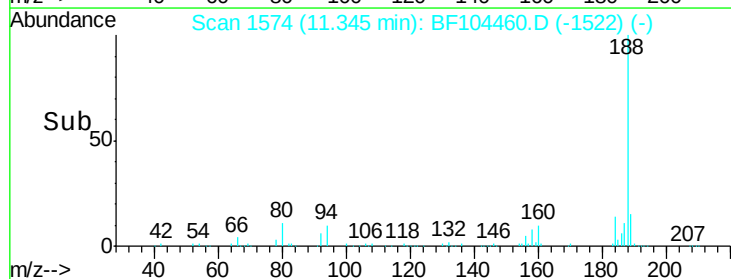
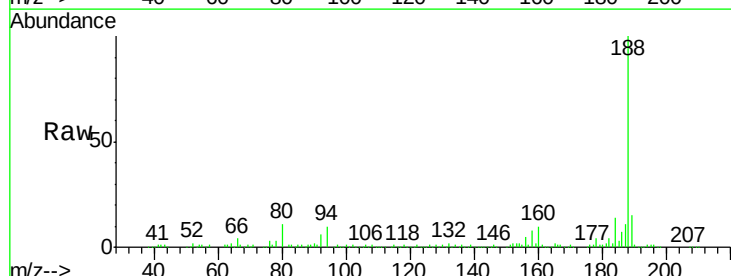
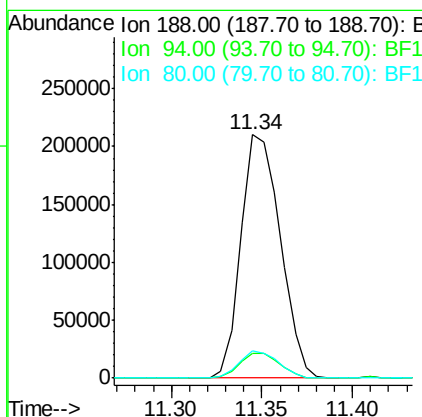
Manual Integrations
 APPROVED

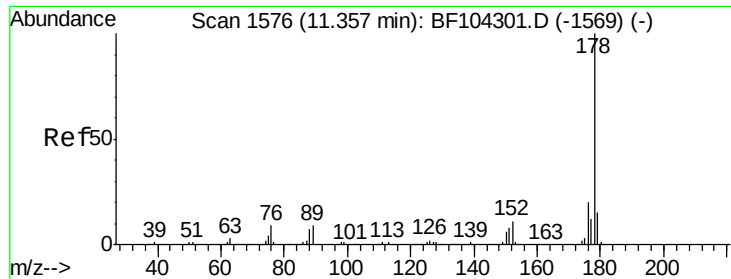
Sohil
 4/13/2018 4:44:21 PM



#63
Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.34 min Scan# 1574
 Delta R.T. 0.01 min
 Lab File: BF104460.D
 Acq: 12 Apr 2018 19:23

Tgt Ion	Ratio	Lower	Upper
188	100		
94	9.9	8.5	12.7
80	11.4	9.2	13.8





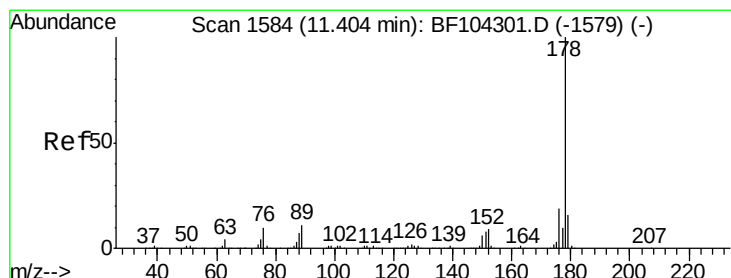
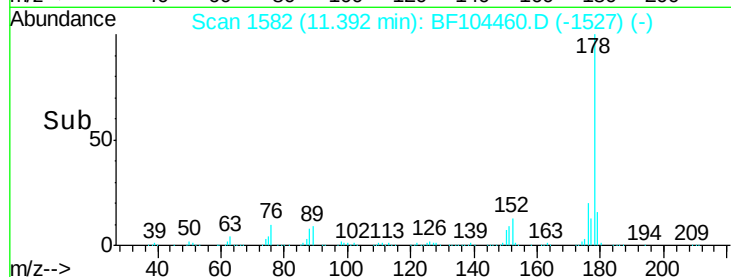
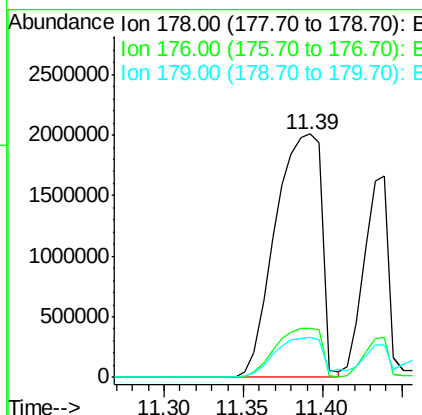
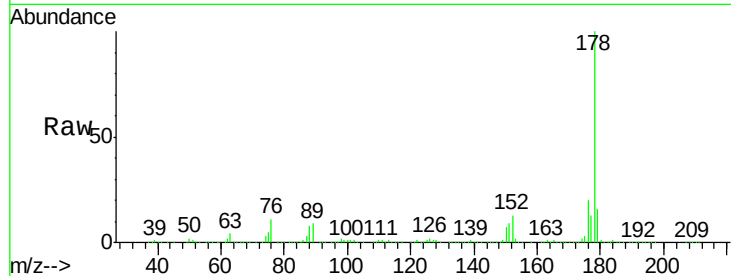
#70
Phenanthrene
Concen: 229.282 ng
RT: 11.39 min Scan# 1582
Delta R.T. 0.02 min
Lab File: BF104460.D
Acq: 12 Apr 2018 19:23

Instrument :
BNA_F
ClientSampleId :
PL-01-041118-A

Tot Ion:178 Resp: 4057083
Ion Ratio Lower Upper
178 100
176 20.3 15.8 23.8
179 16.3 13.0 19.6

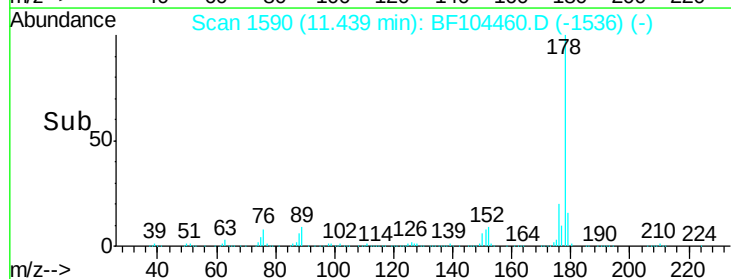
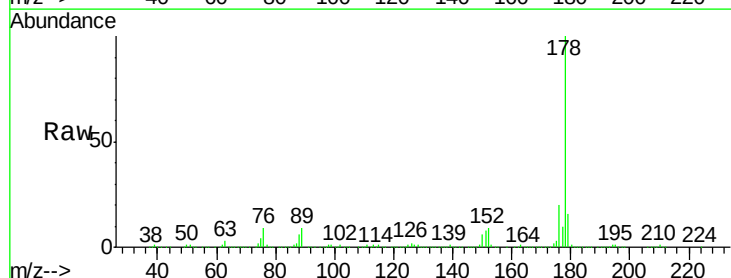
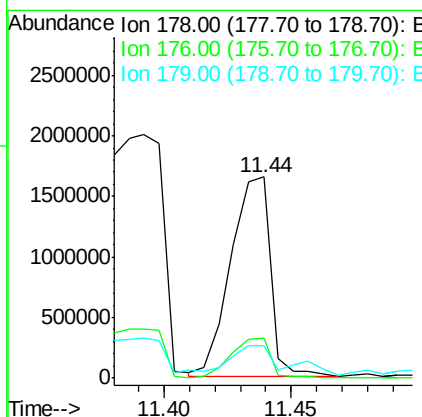
Manual Integrations
APPROVED

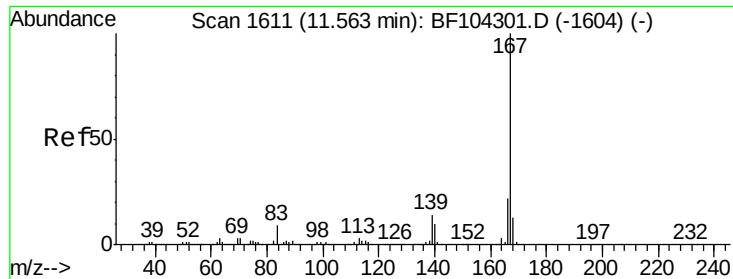
Sohil
4/13/2018 4:44:21 PM



#71
Anthracene
Concen: 100.283 ng
RT: 11.44 min Scan# 1590
Delta R.T. 0.02 min
Lab File: BF104460.D
Acq: 12 Apr 2018 19:23

Tgt Ion:178 Resp: 1803787
Ion Ratio Lower Upper
178 100
176 19.9 15.4 23.2
179 16.2 12.6 19.0





#72

Carbazole

Concen: 11.626 ng

RT: 11.57 min Scan# 1613

Delta R.T. -0.00 min

Lab File: BF104460.D

Acq: 12 Apr 2018 19:23

Instrument :

BNA_F

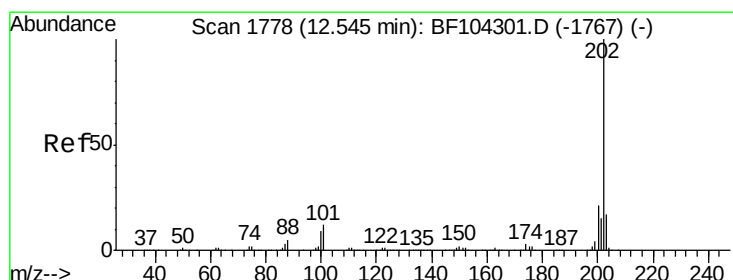
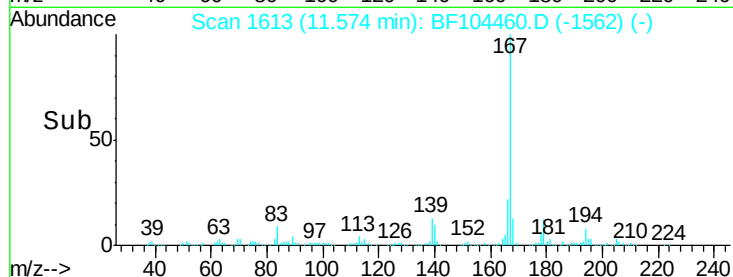
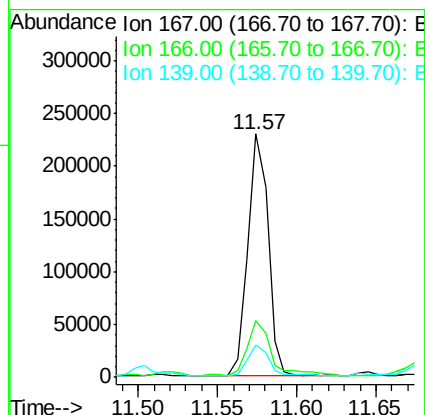
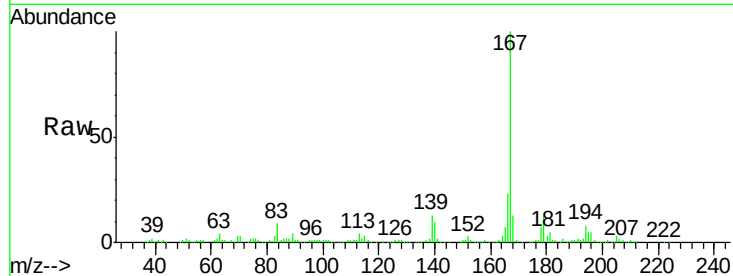
ClientSampleId :

PL-01-041118-A

Tot Ion:	167	Resp:	204349
Ion Ratio	Lower	Upper	
167	100		
166	23.2	17.6	26.4
139	13.3	10.9	16.3

Manual Integrations
APPROVED

Sohil
4/13/2018 4:44:21 PM



#74

Fluoranthene

Concen: 172.722 ng

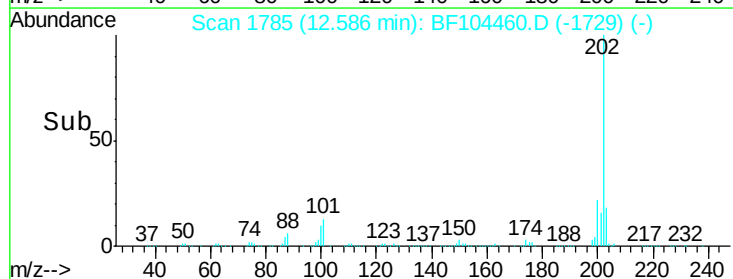
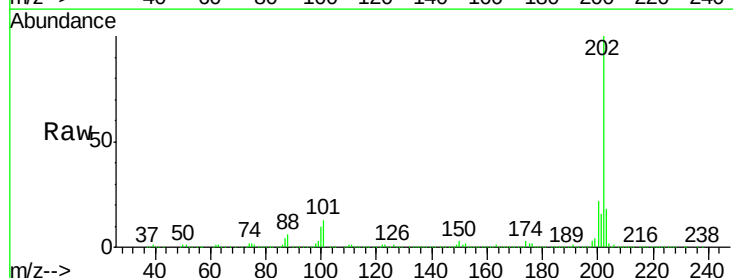
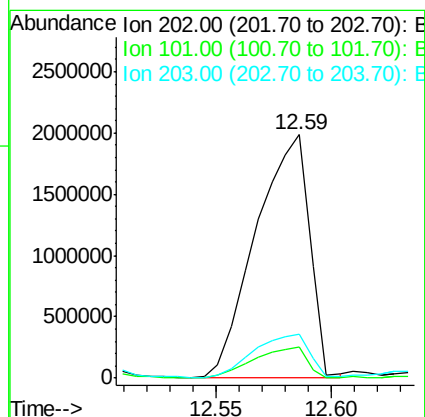
RT: 12.59 min Scan# 1785

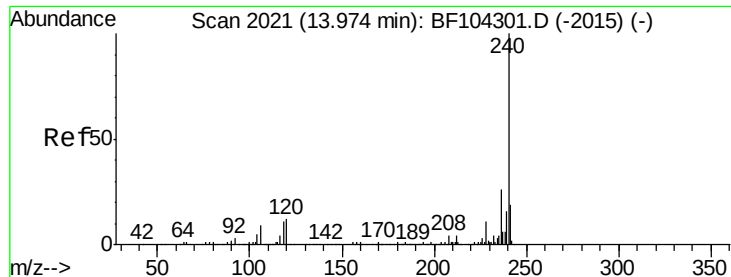
Delta R.T. 0.03 min

Lab File: BF104460.D

Acq: 12 Apr 2018 19:23

Tgt Ion:	202	Resp:	3193209
Ion Ratio	Lower	Upper	
202	100		
101	12.8	0.0	34.1
203	18.3	0.0	38.1





#75

Chrysene-d12

Concen: 20.000 ng

RT: 14.01 min Scan# 2027

Delta R.T. 0.02 min

Lab File: BF104460.D

Acq: 12 Apr 2018 19:23

Instrument :

BNA_F

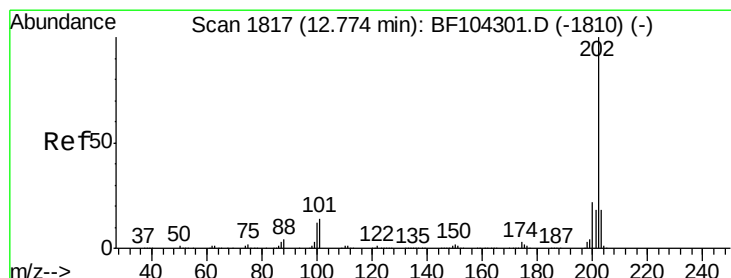
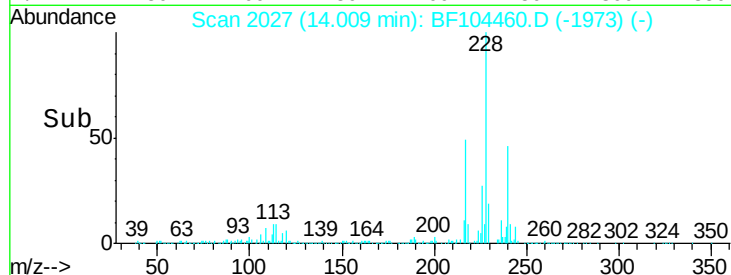
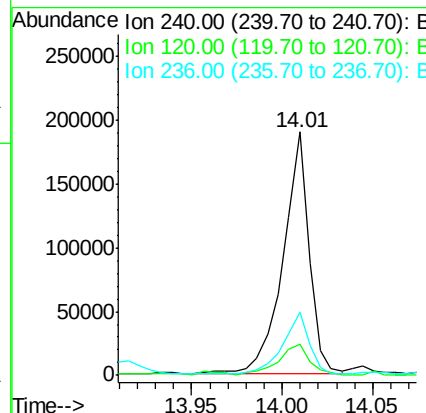
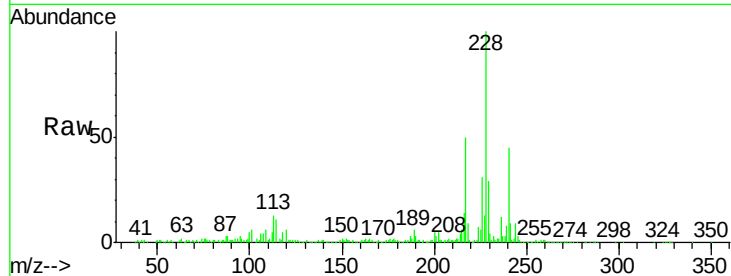
ClientSampleID :

PL-01-041118-A

Tot Ion:	240	Resp:	189663
Ion Ratio	Lower	Upper	
240	100		
120	13.0	9.5	14.3
236	26.2	20.7	31.1

Manual Integrations
APPROVED

Sohil
4/13/2018 4:44:21 PM



#77

Pyrene

Concen: 245.074 ng m

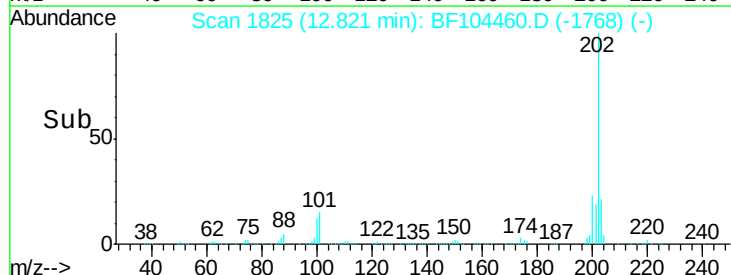
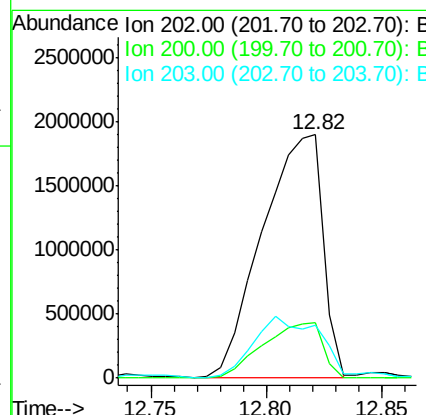
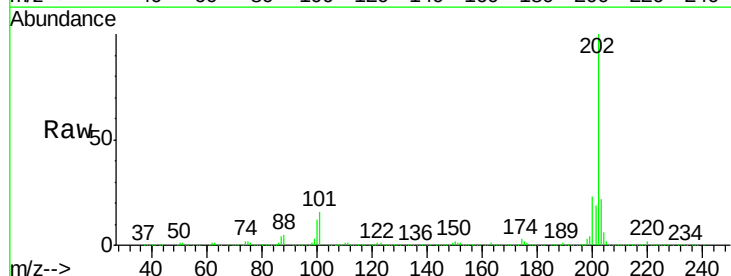
RT: 12.82 min Scan# 1825

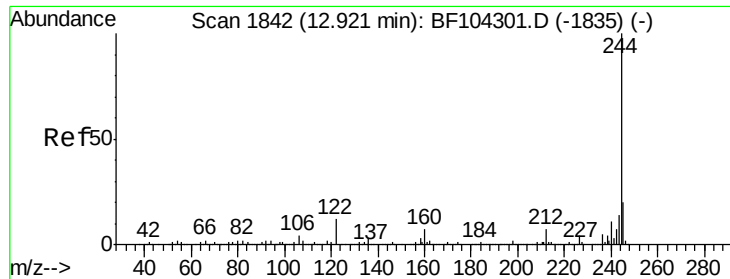
Delta R.T. 0.04 min

Lab File: BF104460.D

Acq: 12 Apr 2018 19:23

Tgt Ion:	202	Resp:	3445367
Ion Ratio	Lower	Upper	
202	100		
200	22.9	17.4	26.2
203	21.9	14.3	21.5#





#78

Terphenyl-d14

Concen: 21.932 ng

RT: 12.93 min Scan# 1844

Delta R.T. -0.00 min

Lab File: BF104460.D

Acq: 12 Apr 2018 19:23

Instrument :

BNA_F

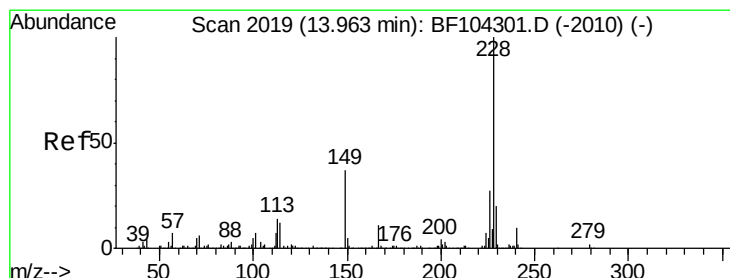
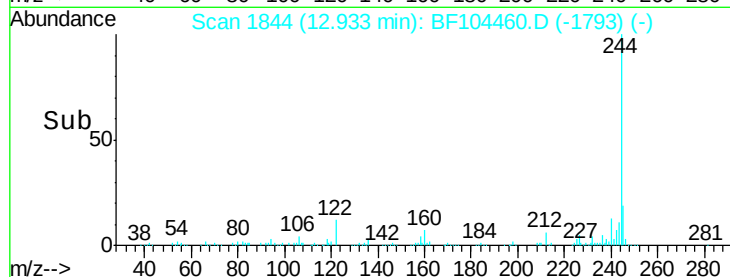
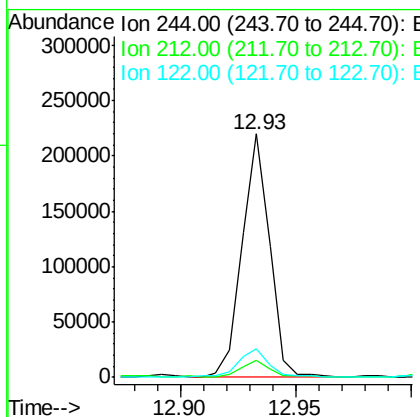
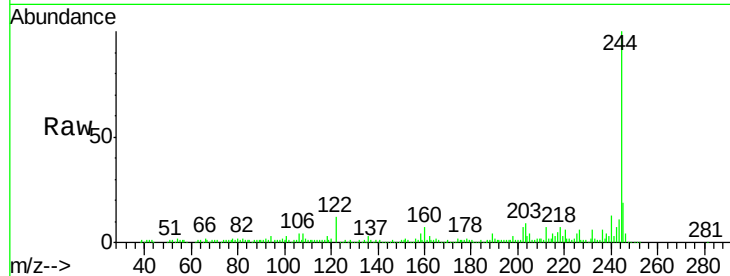
ClientSampleId :

PL-01-041118-A

Tot Ion:	244	Resp:	182459
Ion Ratio	Lower	Upper	
244	100		
212	7.1	5.4	8.0
122	11.8	11.0	16.4

Manual Integrations
APPROVED

Sohil
4/13/2018 4:44:21 PM



#80

Benzo(a)anthracene

Concen: 189.767 ng

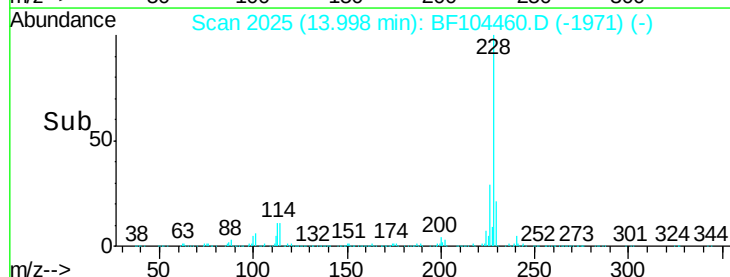
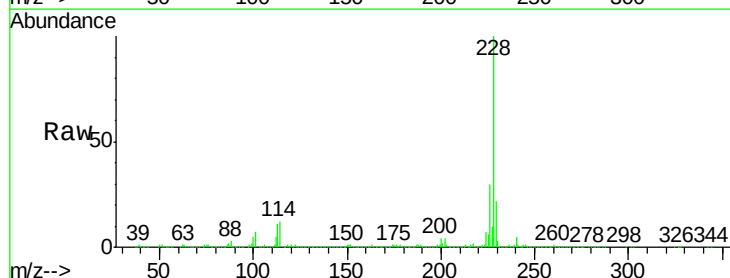
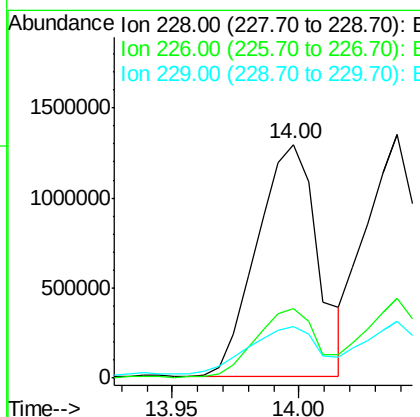
RT: 14.00 min Scan# 2025

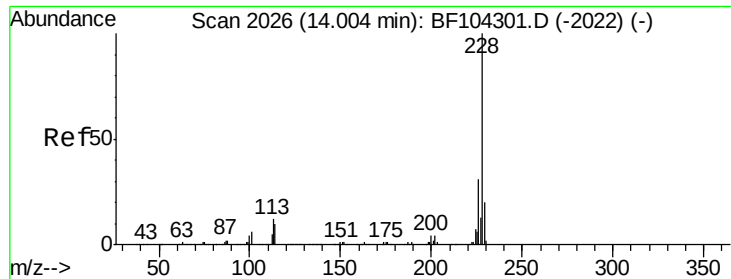
Delta R.T. 0.02 min

Lab File: BF104460.D

Acq: 12 Apr 2018 19:23

Tgt Ion:	228	Resp:	2150190
Ion Ratio	Lower	Upper	
228	100		
226	29.5	22.6	33.8
229	22.3	15.8	23.6





#82

Chrysene

Concen: 150.317 ng

RT: 14.04 min Scan# 2032

Delta R.T. 0.02 min

Lab File: BF104460.D

Acq: 12 Apr 2018 19:23

Instrument :

BNA_F

ClientSampleId :

PL-01-041118-A

Tot Ion:228 Resp: 1749442

Ion Ratio Lower Upper

228 100

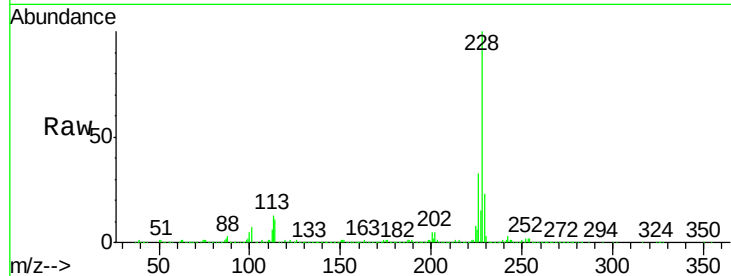
226 32.7 25.0 37.6

229 23.2 16.2 24.4

Manual Integrations
APPROVED

Sohil

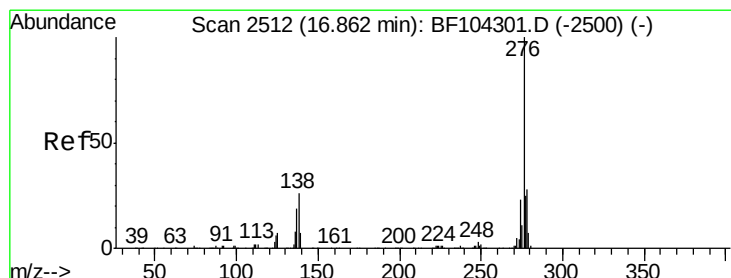
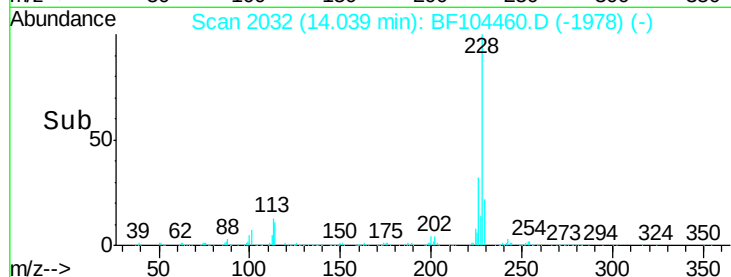
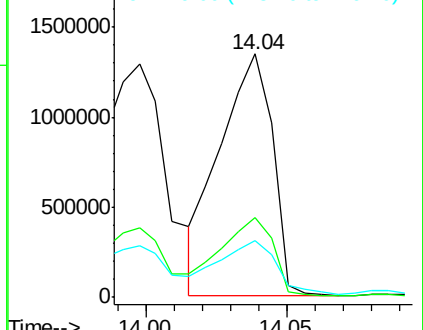
4/13/2018 4:44:21 PM



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: 57.233 ng m

RT: 16.94 min Scan# 2526

Delta R.T. 0.03 min

Lab File: BF104460.D

Acq: 12 Apr 2018 19:23

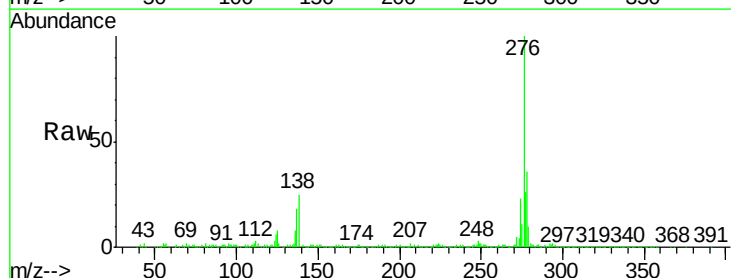
Tgt Ion:276 Resp: 565836

Ion Ratio Lower Upper

276 100

138 5.8 25.0 37.6#

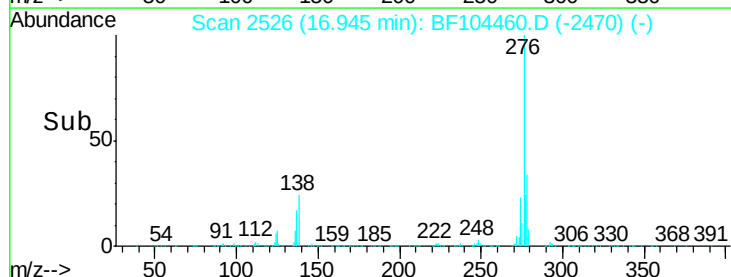
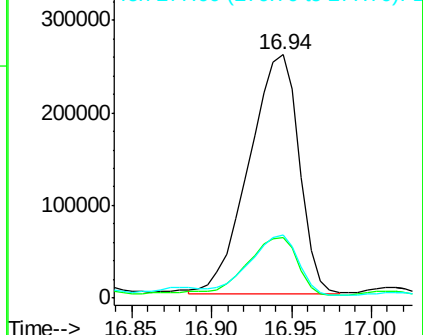
277 5.3 20.1 30.1#

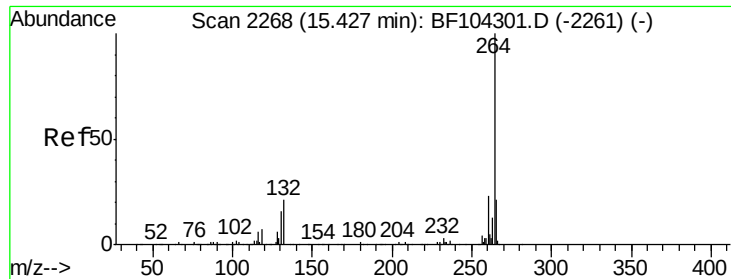


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E





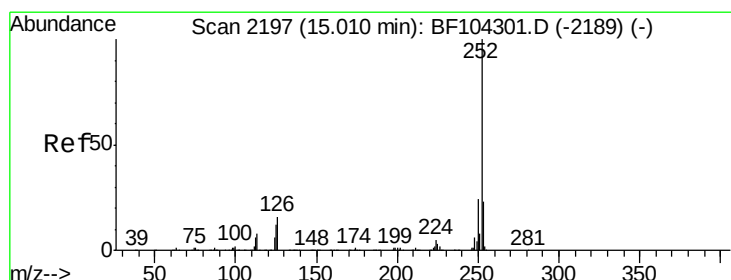
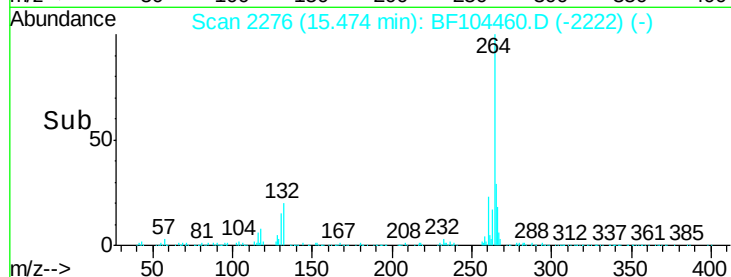
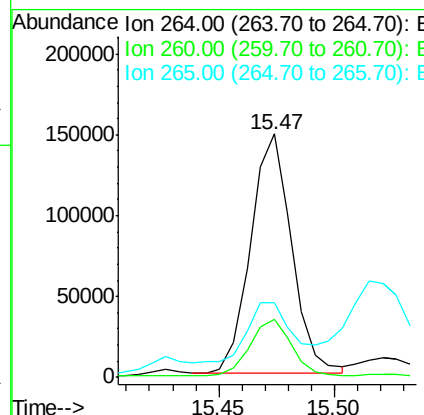
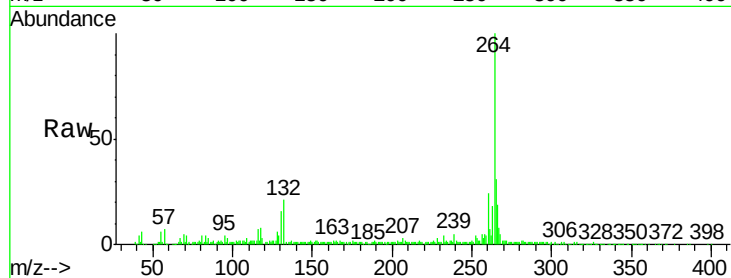
#86
Pervlene-d12
Concen: 20.000 ng
RT: 15.47 min Scan# 2276
Delta R.T. 0.02 min
Lab File: BF104460.D
Acq: 12 Apr 2018 19:23

Instrument :
BNA_F
ClientSampleId :
PL-01-041118-A

Tot Ion	Ratio	Lower	Upper
264	100		
260	23.7	19.2	28.8
265	30.5	17.5	26.3

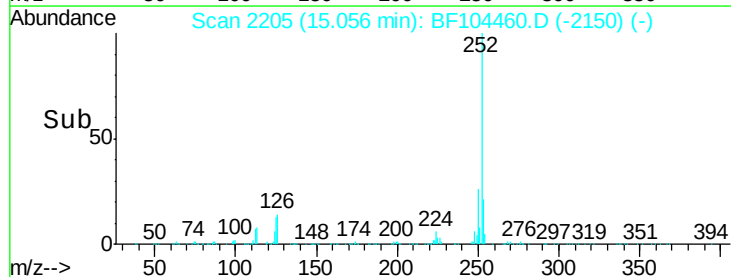
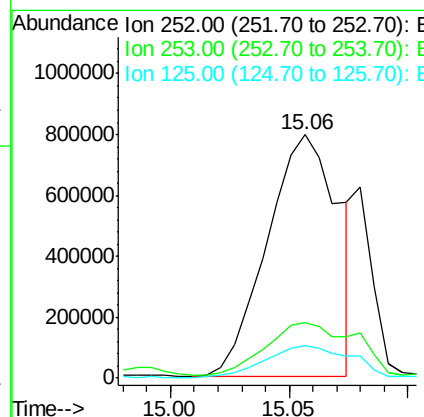
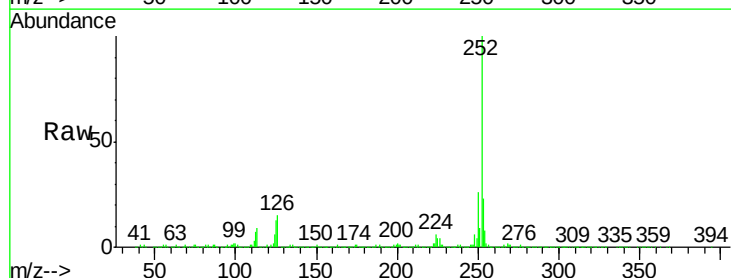
Manual Integrations
APPROVED

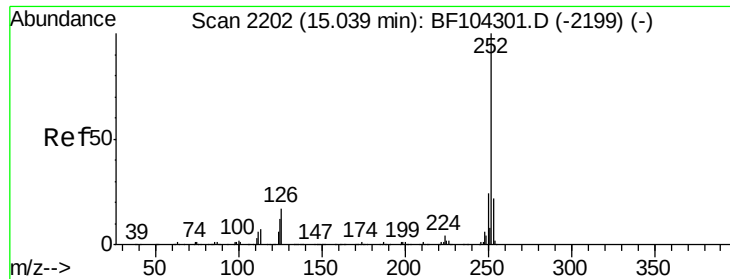
Sohil
4/13/2018 4:44:21 PM



#87
Benzo(b)fluoranthene
Concen: 144.578 ng m
RT: 15.06 min Scan# 2205
Delta R.T. 0.02 min
Lab File: BF104460.D
Acq: 12 Apr 2018 19:23

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.0	17.0	25.6
125	13.4	9.0	13.6





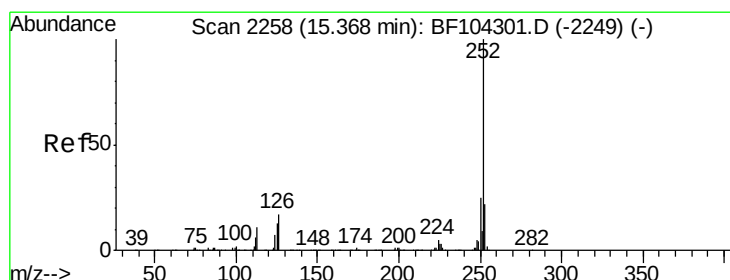
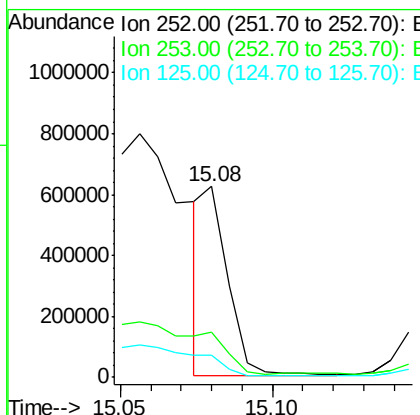
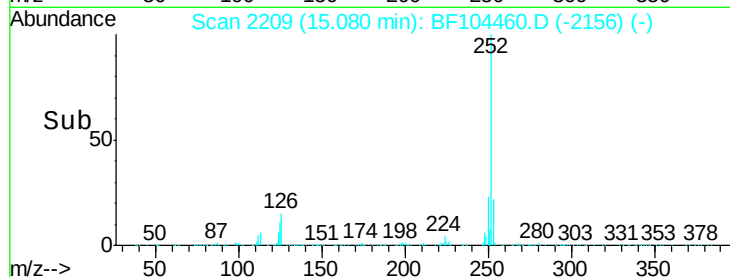
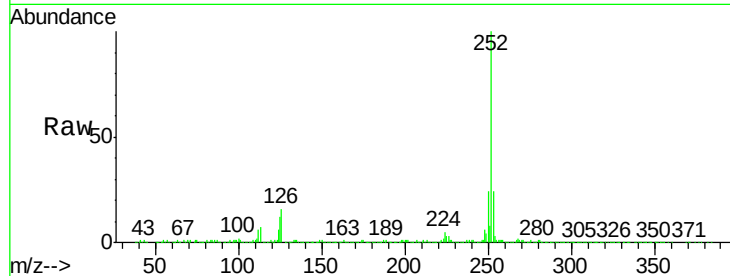
#88
Benzo(k)fluoranthene
Concen: 32.277 ng/mL
RT: 15.08 min Scan# 2209
Delta R.T. 0.01 min
Lab File: BF104460.D
Acq: 12 Apr 2018 19:23

Instrument :
BNA_F
ClientSampleID :
PL-01-041118-A

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.7	17.9	26.9
125	11.6	10.2	15.2

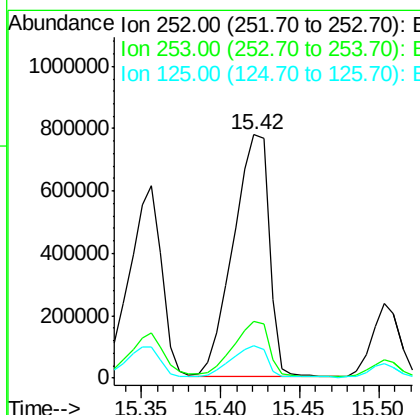
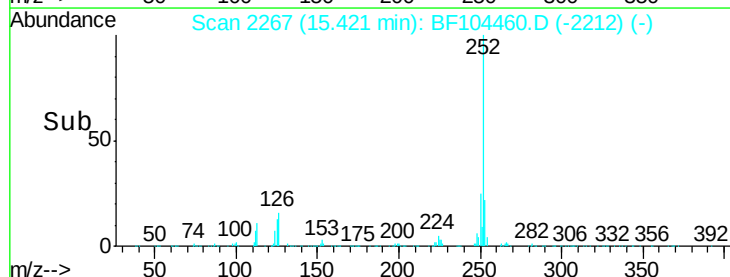
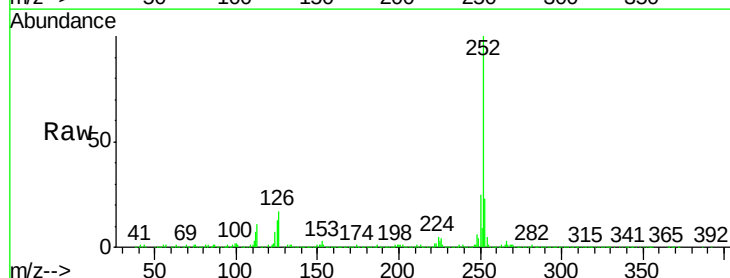
Manual Integrations
APPROVED

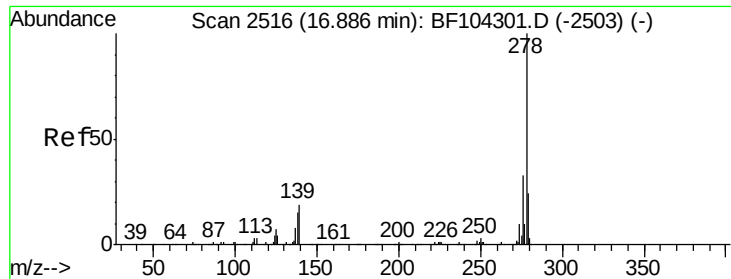
Sohil
4/13/2018 4:44:21 PM



#89
Benzo(a)pyrene
Concen: 118.623 ng/mL
RT: 15.42 min Scan# 2267
Delta R.T. 0.02 min
Lab File: BF104460.D
Acq: 12 Apr 2018 19:23

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.3	17.1	25.7
125	13.4	9.8	14.6





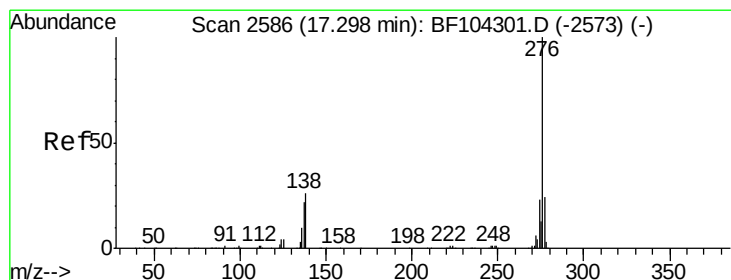
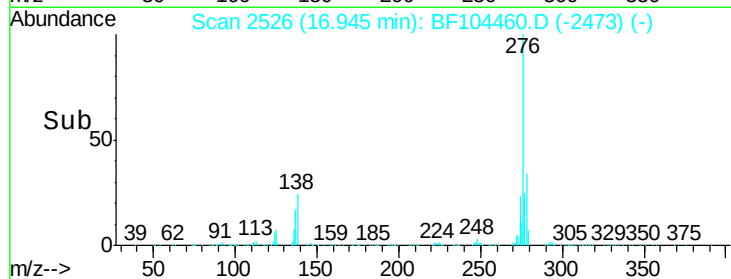
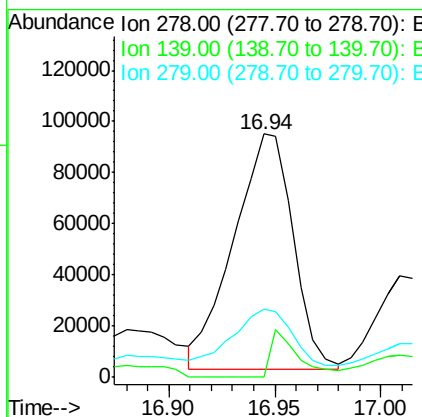
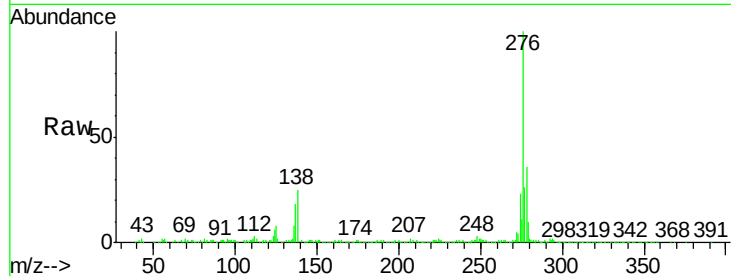
#90
Dibenzo(a,h)anthracene
Concen: 21.252 ng
RT: 16.94 min Scan# 2526
Delta R.T. 0.01 min
Lab File: BF104460.D
Acq: 12 Apr 2018 19:23

Instrument :
BNA_F
ClientSampleId :
PL-01-041118-A

Tot Ion	Ratio	Lower	Upper
278	100		
139	0.0	15.9	23.9#
279	28.1	19.0	28.4

Manual Integrations
APPROVED

Sohil
4/13/2018 4:44:21 PM



#91
Benzo(g,h,i)perylene
Concen: 74.741 ng
RT: 17.40 min Scan# 2603
Delta R.T. 0.04 min
Lab File: BF104460.D
Acq: 12 Apr 2018 19:23

Tgt Ion	Ratio	Lower	Upper
276	100		
277	23.9	17.9	26.9
138	22.8	21.8	32.8

