

Data Path : Z:\HPCHEM1\BNA F\DATA\BF041318\
 Data File : BF104501.D
 Acq On : 14 Apr 2018 3:29
 Operator : JU/SJ
 Sample : J2163-03DL 10X
 Misc :
 ALS Vial : 28 Sample Multiplier: 1

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

Manual Integrations
 APPROVED

Sohil
 4/16/2018 3:10:38 PM

Quant Time: Apr 16 11:33:46 2018
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF040618.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Apr 13 17:38:31 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.81	152	124190	20.00	ng	0.00
21) Naphthalene-d8	8.09	136	485524	20.00	ng	0.00
38) Acenaphthene-d10	9.85	164	202812	20.00	ng	-0.01
63) Phenanthrene-d10	11.34	188	306908	20.00	ng	0.00
75) Chrysene-d12	13.99	240	231598	20.00	ng	0.00
86) Perylene-d12	15.46	264	178333	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.42	112	85829	10.57	ng	0.00
7) Phenol-d6	6.44	99	104686	10.49	ng	0.00
23) Nitrobenzene-d5	7.36	82	59900	8.06	ng	-0.02
41) 2,4,6-Tribromophenol	10.64	330	16289	7.74	ng	0.00
44) 2-Fluorobiphenyl	9.16	172	110344	8.59	ng	-0.01
78) Terphenyl-d14	12.92	244	80558	7.93	ng	-0.01
Target Compounds						
31) Naphthalene	8.11	128	61139	2.529	ng	98
37) 2-Methylnaphthalene	8.80	142	67361	4.307	ng	98
51) Acenaphthene	9.88	154	84666	6.572	ng	98
54) Dibenzofuran	10.05	168	54500	3.036	ng	# 95
57) Fluorene	10.40	166	170572	13.053	ng	98
70) Phenanthrene	11.36	178	874702	51.178	ng	100
71) Anthracene	11.42	178	306094	17.618	ng	98
74) Fluoranthene	12.56	202	739104	41.389	ng	97
77) Pyrene	12.79	202	852054	49.634	ng	99
80) Benzo(a)anthracene	13.97	228	409048	29.564	ng	98
82) Chrysene	14.01	228	372920	26.241	ng	99
85) Indeno(1,2,3-cd)pyrene	16.90	276	90294	7.479	ng	# 92
87) Benzo(b)fluoranthene	15.03	252	263103m	23.360	ng	
88) Benzo(k)fluoranthene	15.06	252	100260m	9.429	ng	
89) Benzo(a)pyrene	15.39	252	214406	21.275	ng	98
90) Dibenzo(a,h)anthracene	16.91	278	28501m	3.443	ng	
91) Benzo(a,h,i)perylene	17.34	276	99730	12.437	ng	97

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

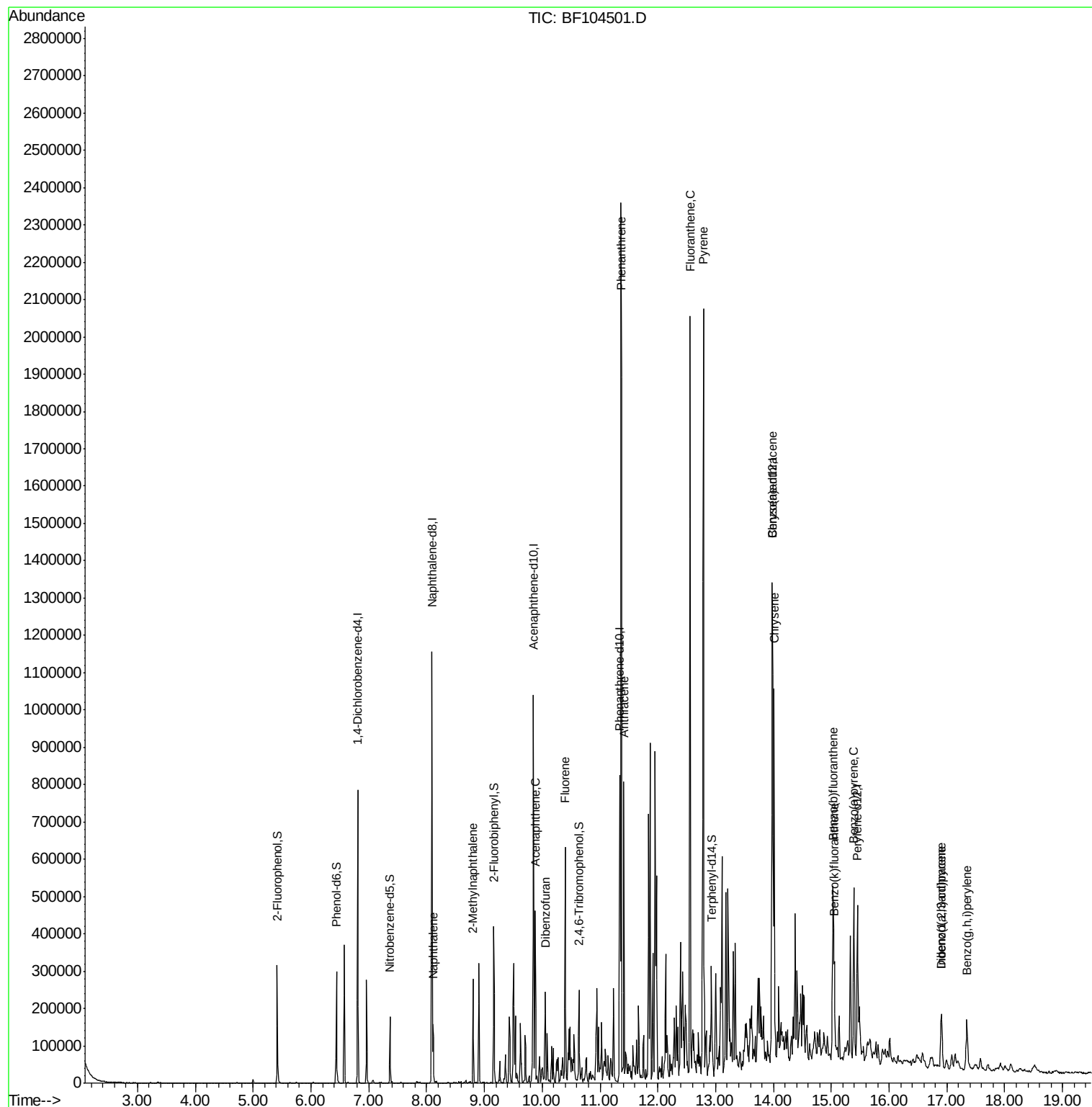
Data Path : Z:\HPCHEM1\BNA F\DATA\BF041318\
Data File : BF104501.D
Acq On : 14 Apr 2018 3:29
Operator : JU/SJ
Sample : J2163-03DL 10X
Misc :
ALS Vial : 28 Sample Multiplier: 1

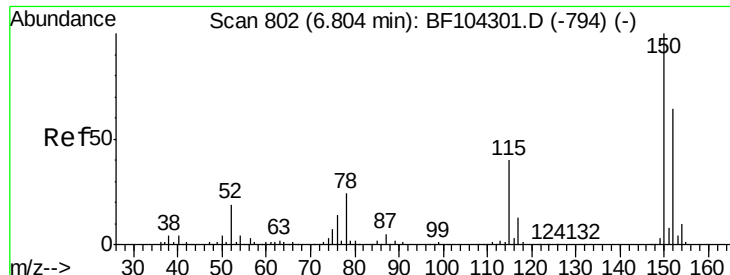
Instrument :
BNA_F
ClientSampleId :
PL-01-041118-BDL

Manual Integrations
APPROVED

Sohil
4/16/2018 3:10:38 PM

Quant Time: Apr 16 11:33:46 2018
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF040618.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Apr 13 17:38:31 2018
Response via : Initial Calibration





#1

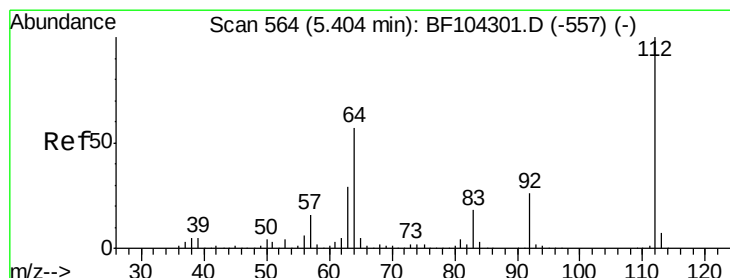
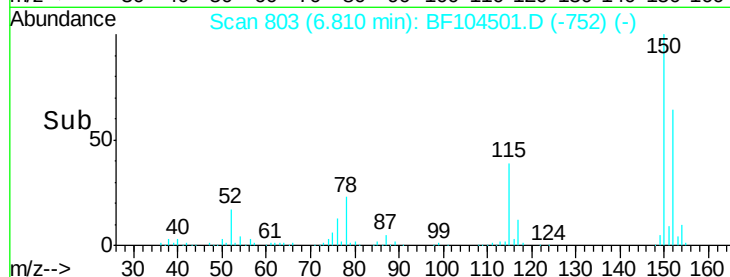
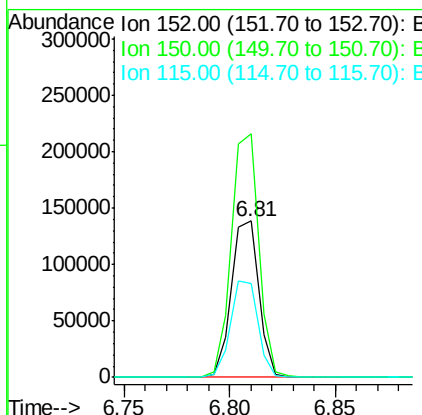
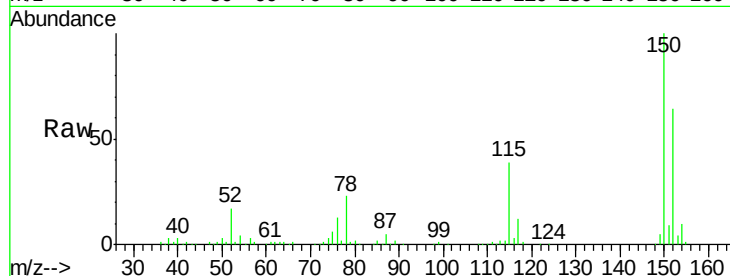
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.81 min Scan# 803
Delta R.T. 0.00 min
Lab File: BF104501.D
Acq: 14 Apr 2018 3:29

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

Tot Ion	Ratio	Lower	Upper
152	100		
150	156.0	124.6	186.8
115	60.2	50.1	75.1

Manual Integrations
APPROVED

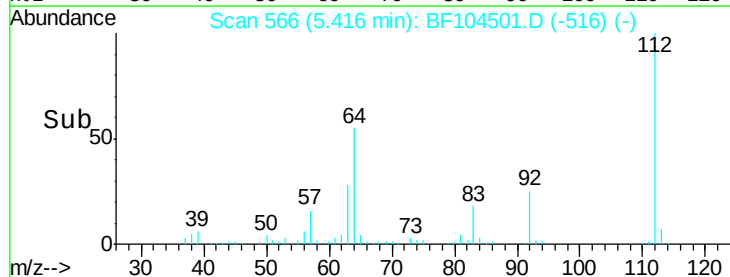
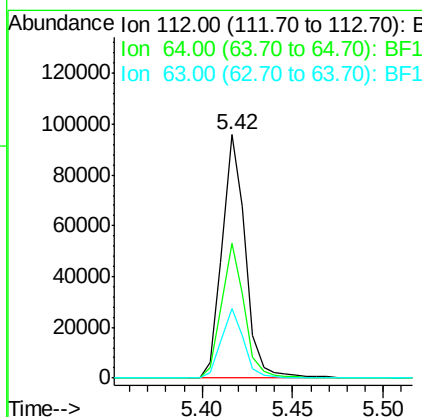
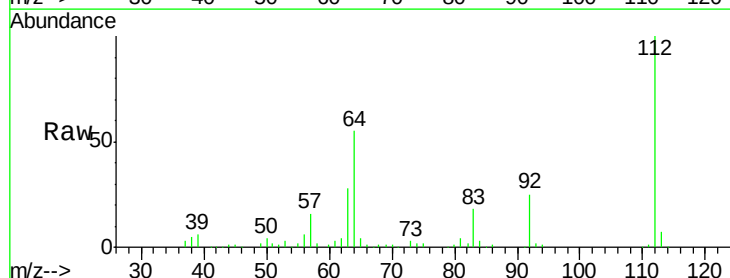
Sohil
4/16/2018 3:10:38 PM

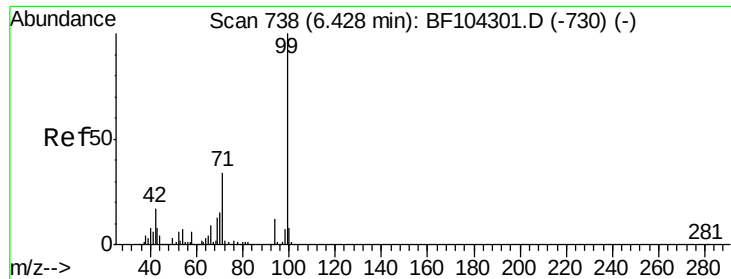


#5

2-Fluorophenol
Concen: 10.567 ng
RT: 5.42 min Scan# 566
Delta R.T. -0.01 min
Lab File: BF104501.D
Acq: 14 Apr 2018 3:29

Tgt Ion	Ratio	Lower	Upper
112	100		
64	55.4	47.9	71.9
63	28.4	23.7	35.5





#7

Phenol-d6

Concen: 10.490 ng

RT: 6.44 min Scan# 740

Delta R.T. -0.01 min

Lab File: BF104501.D

Acq: 14 Apr 2018 3:29

Instrument :

BNA_F

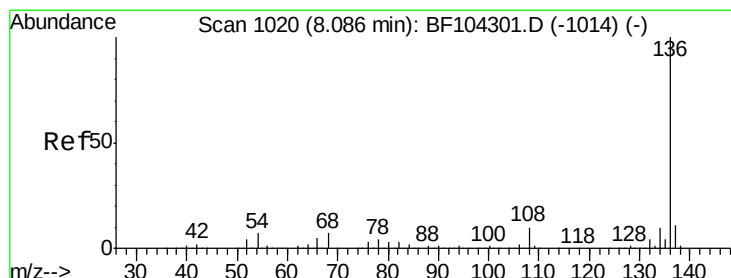
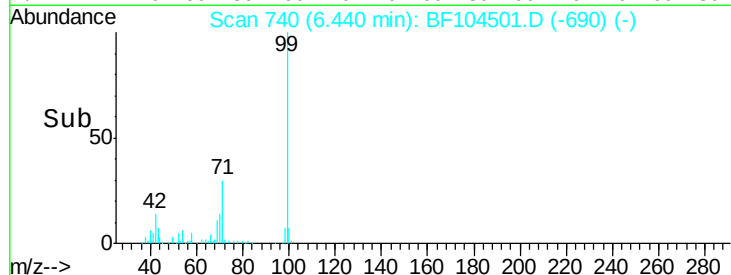
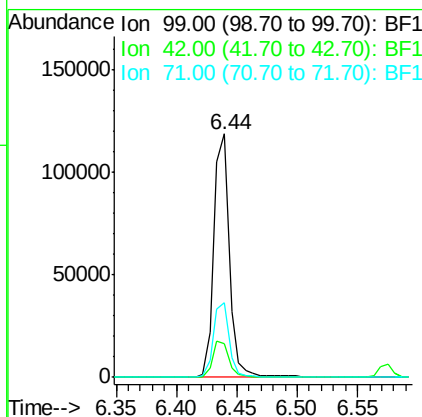
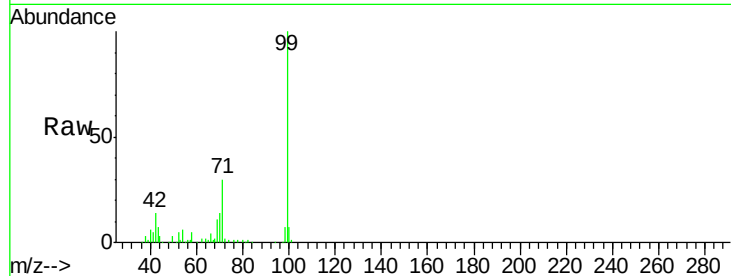
ClientSampleId :

PL-01-041118-BDL

Tot Ion	Ion	Ratio	Resp	Lower	Upper
99	100		104686		
42	13.6	14.5	21.7#		
71	30.4	25.4	38.0		

Manual Integrations
APPROVED

Sohil
4/16/2018 3:10:38 PM



#21

Naphthalene-d8

Concen: 20.000 ng

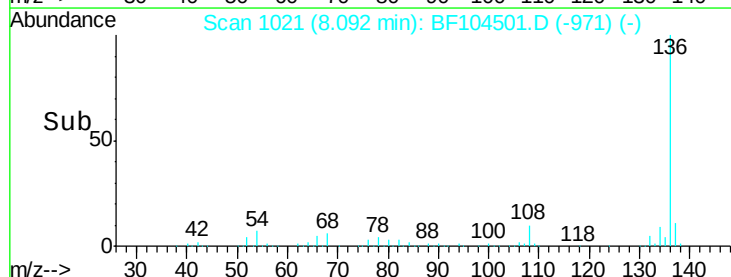
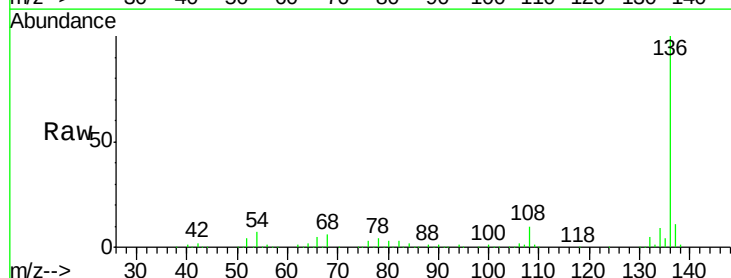
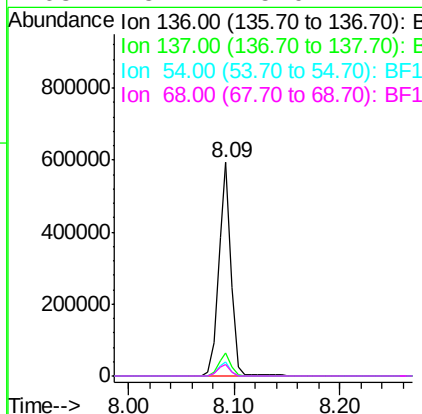
RT: 8.09 min Scan# 1021

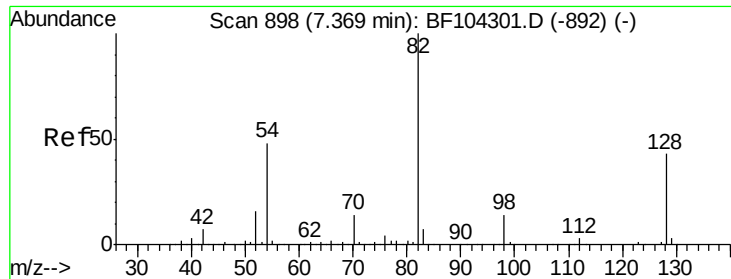
Delta R.T. -0.01 min

Lab File: BF104501.D

Acq: 14 Apr 2018 3:29

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
136	100		485524		
137	11.1	8.9	13.3		
54	6.8	6.6	9.8		
68	5.7	5.0	7.4		





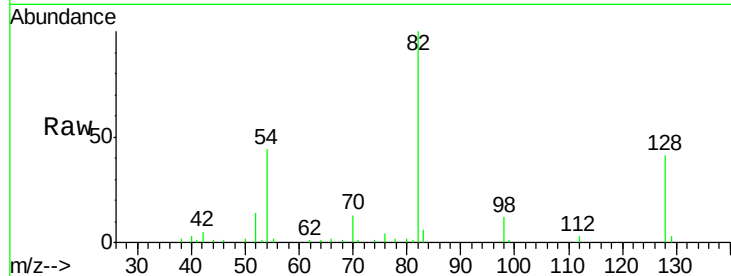
#23
Nitrobenzene-d5
Concen: 8.056 ng
RT: 7.36 min Scan# 897
Delta R.T. -0.02 min
Lab File: BF104501.D
Acq: 14 Apr 2018 3:29

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

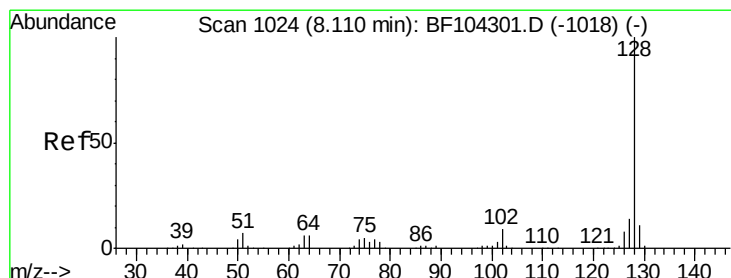
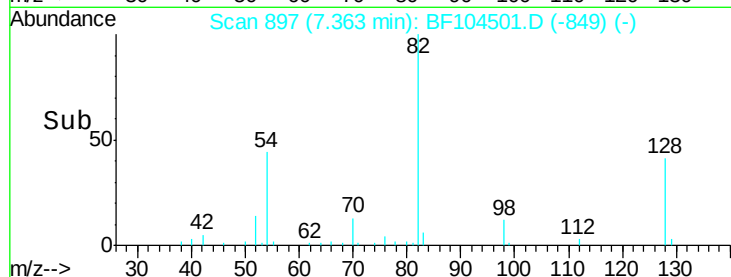
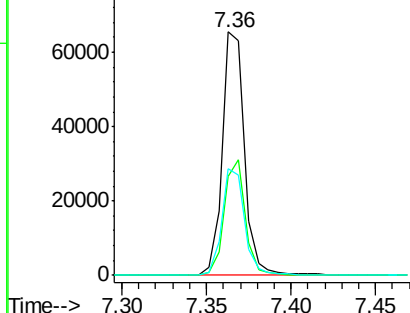
Tot Ion	Ratio	Lower	Upper
82	100		
128	40.7	36.1	54.1
54	44.0	41.4	62.2

Manual Integrations
APPROVED

Sohil
4/16/2018 3:10:38 PM



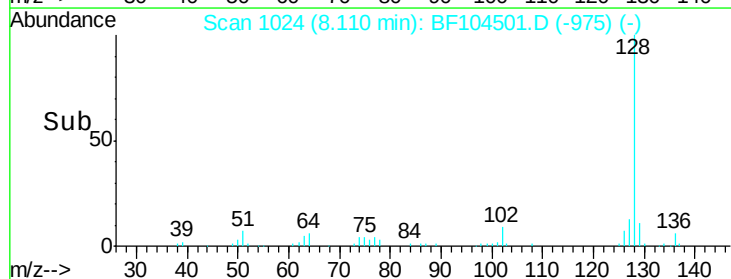
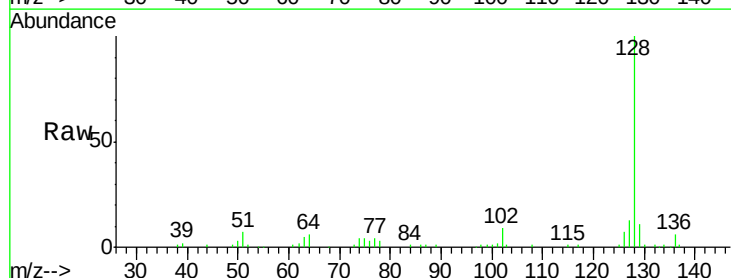
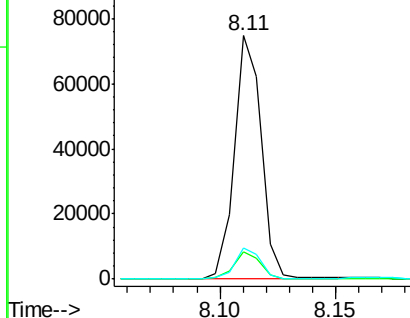
Abundance Ion 82.00 (81.70 to 82.70): BF1
Ion 128.00 (127.70 to 128.70): E
Ion 54.00 (53.70 to 54.70): BF1

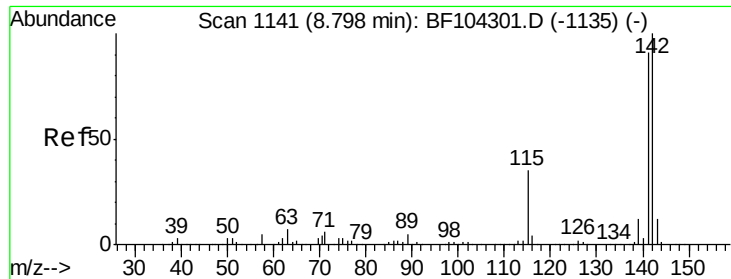


#31
Naphthalene
Concen: 2.529 ng
RT: 8.11 min Scan# 1024
Delta R.T. -0.01 min
Lab File: BF104501.D
Acq: 14 Apr 2018 3:29

Tgt Ion	Ratio	Lower	Upper
128	100		
129	11.4	8.8	13.2
127	12.7	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





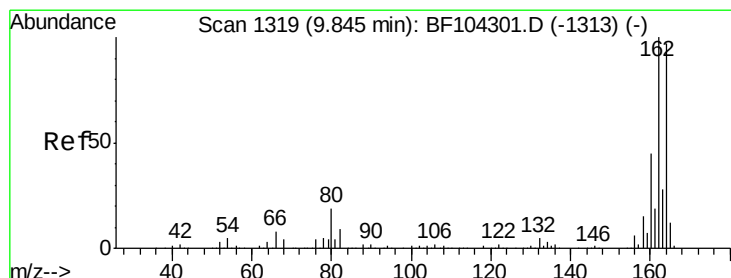
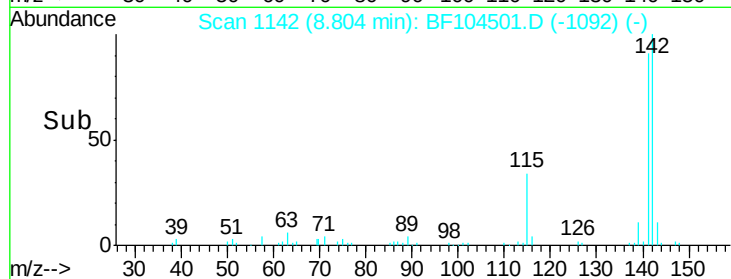
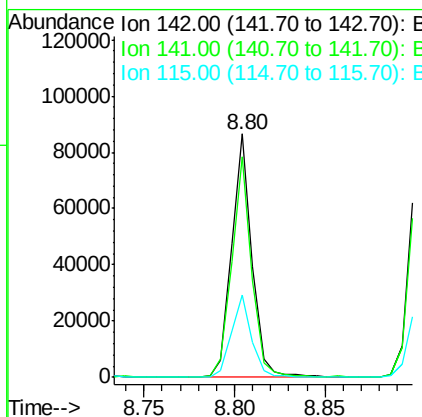
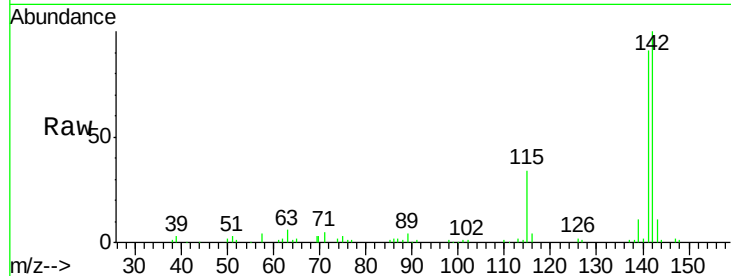
#37
2-Methylnaphthalene
Concen: 4.307 ng
RT: 8.80 min Scan# 1142
Delta R.T. -0.01 min
Lab File: BF104501.D
Acq: 14 Apr 2018 3:29

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

Tot Ion	Ratio	Lower	Upper
142	100		
141	90.7	70.8	106.2
115	33.6	26.1	39.1

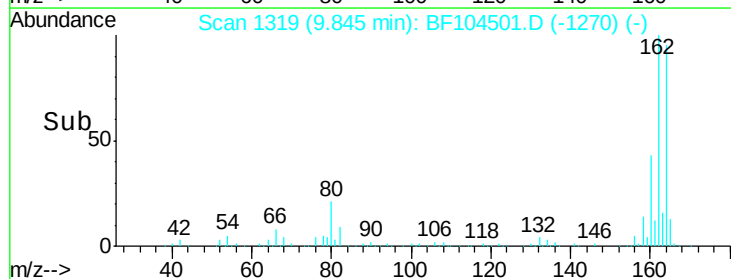
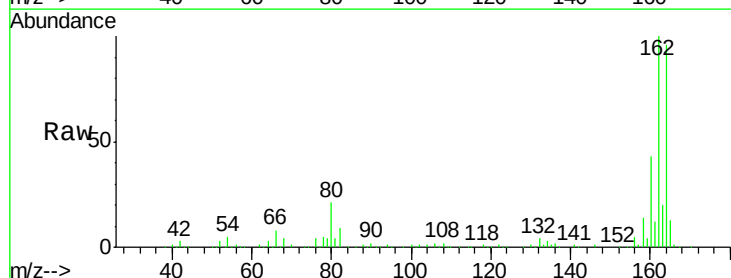
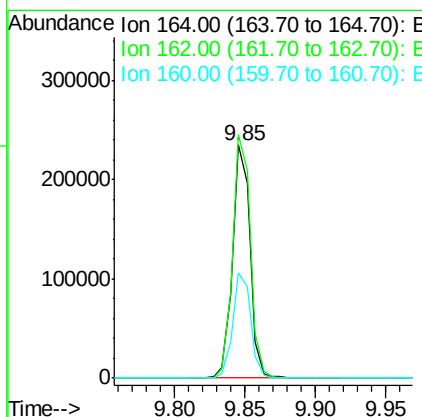
Manual Integrations
APPROVED

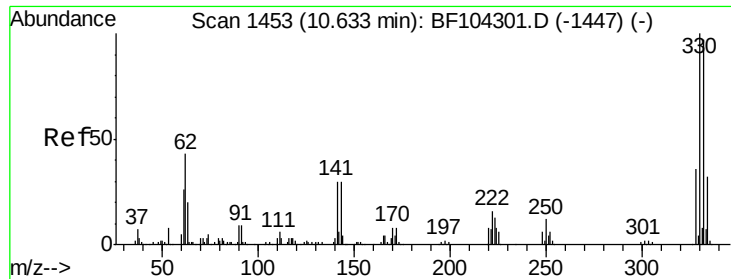
Sohil
4/16/2018 3:10:38 PM



#38
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.85 min Scan# 1319
Delta R.T. -0.01 min
Lab File: BF104501.D
Acq: 14 Apr 2018 3:29

Tgt Ion	Ratio	Lower	Upper
164	100		
162	104.4	86.1	129.1
160	44.9	38.3	57.5





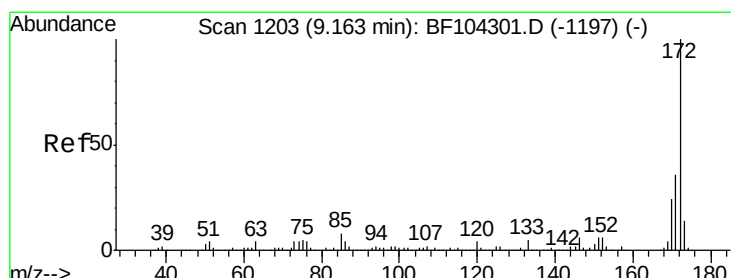
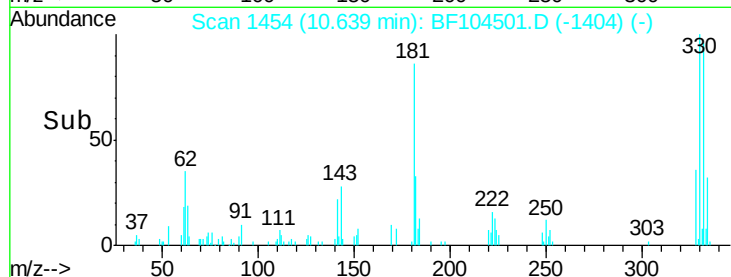
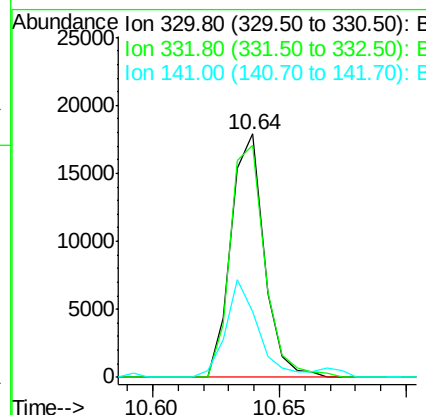
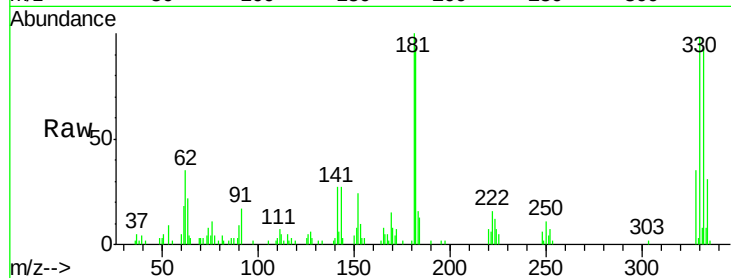
#41
 2,4,6-Tribromophenol
 Concen: 7.743 ng
 RT: 10.64 min Scan# 1454
 Delta R.T. -0.01 min
 Lab File: BF104501.D
 Acq: 14 Apr 2018 3:29

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

Tot Ion	Ratio	Resp	Lower	Upper
330	100	16289		
332	100.2	77.0	115.6	
141	39.8	29.9	44.9	

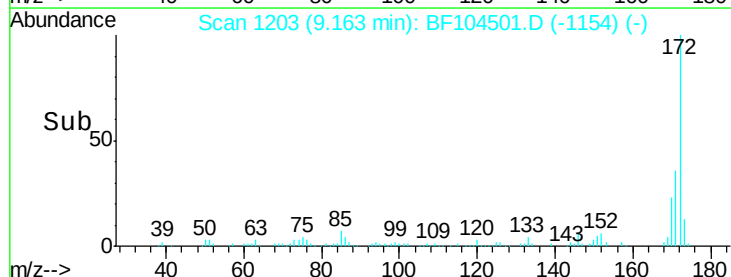
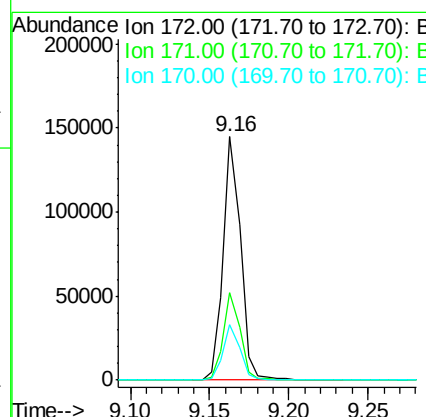
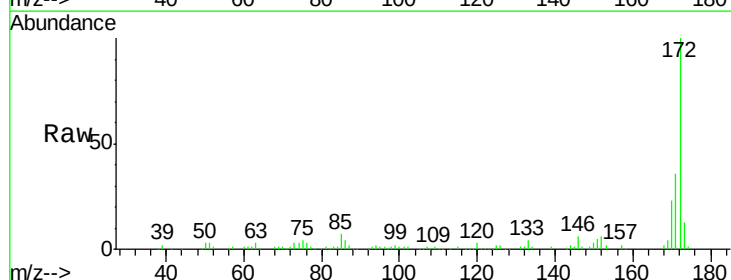
Manual Integrations
 APPROVED

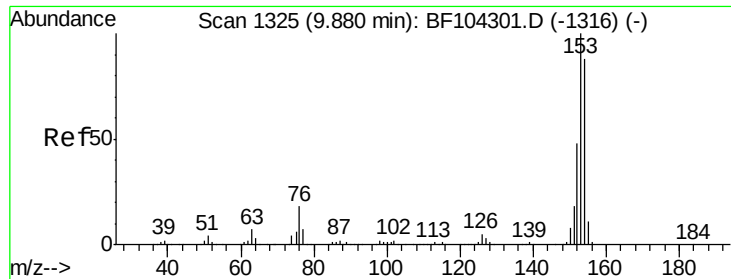
Sohil
 4/16/2018 3:10:38 PM



#44
 2-Fluorobiphenyl
 Concen: 8.595 ng
 RT: 9.16 min Scan# 1203
 Delta R.T. -0.01 min
 Lab File: BF104501.D
 Acq: 14 Apr 2018 3:29

Tgt Ion	Ratio	Resp	Lower	Upper
172	100	110344		
171	36.1	29.7	44.5	
170	22.9	19.6	29.4	





#51

Acenaphthene

Concen: 6.572 ng

RT: 9.88 min Scan# 1325

Delta R.T. -0.01 min

Lab File: BF104501.D

Acq: 14 Apr 2018 3:29

Instrument :

BNA_F

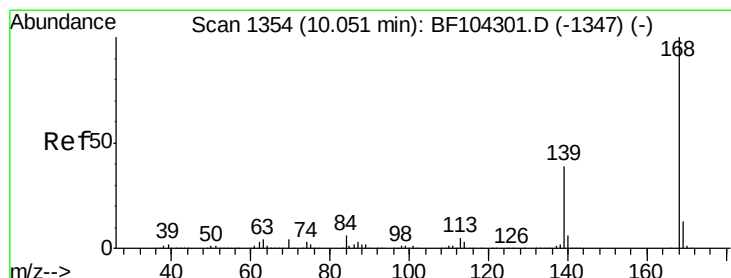
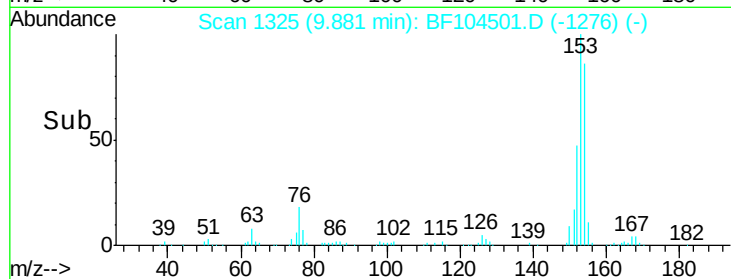
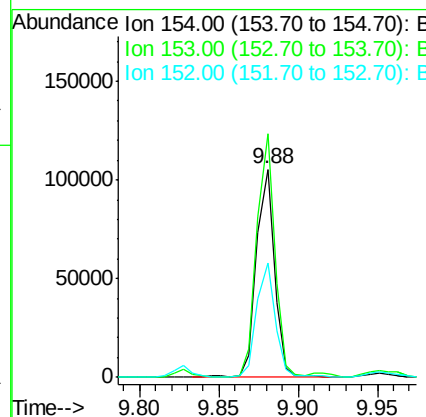
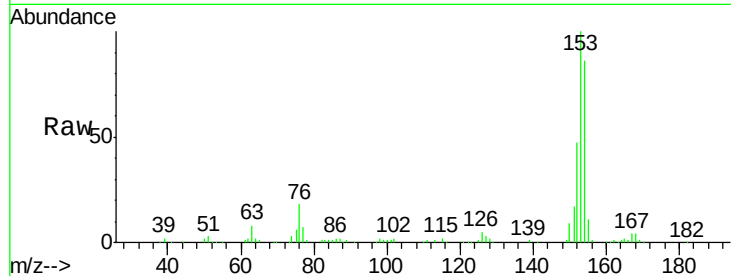
ClientSampleId :

PL-01-041118-BDL

Tot Ion:	154	Resp:	84666
Ion Ratio	Lower	Upper	
154	100		
153	117.0	91.2	136.8
152	55.0	43.8	65.8

Manual Integrations
APPROVED

Sohil
4/16/2018 3:10:38 PM



#54

Dibenzofuran

Concen: 3.036 ng

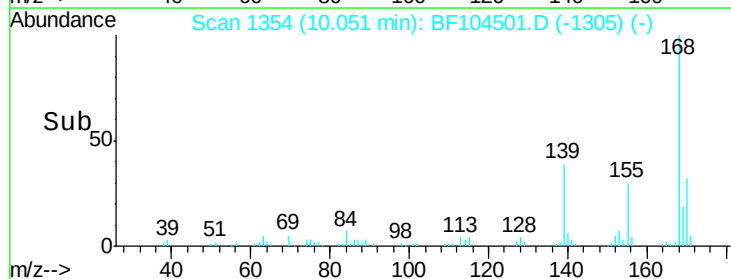
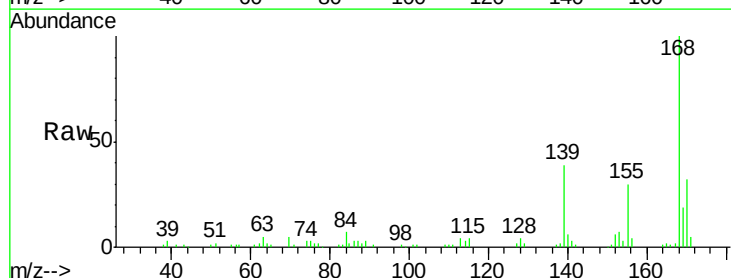
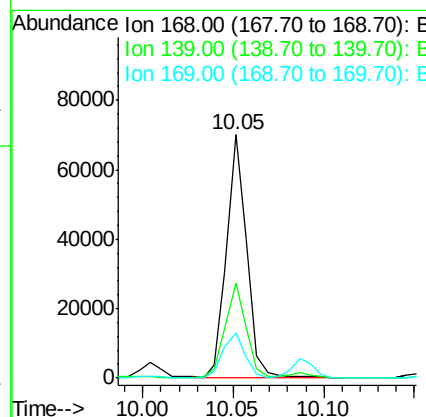
RT: 10.05 min Scan# 1354

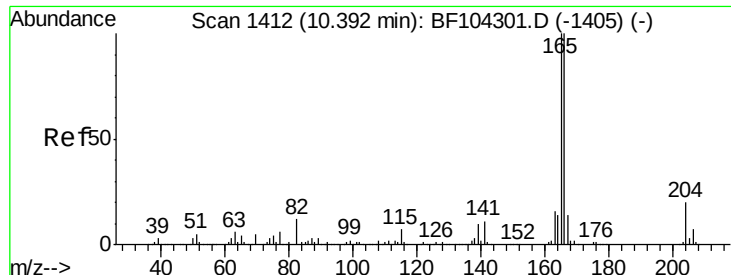
Delta R.T. -0.01 min

Lab File: BF104501.D

Acq: 14 Apr 2018 3:29

Tgt Ion:	168	Resp:	54500
Ion Ratio	Lower	Upper	
168	100		
139	39.2	30.1	45.1
169	18.7	10.9	16.3#





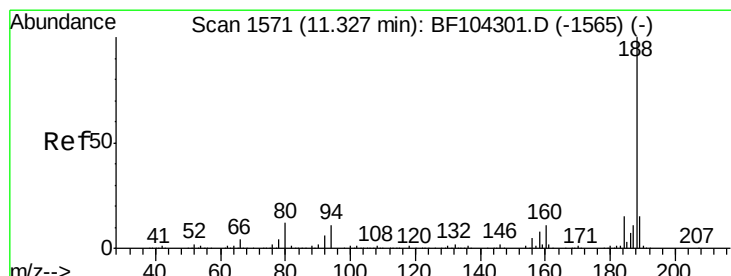
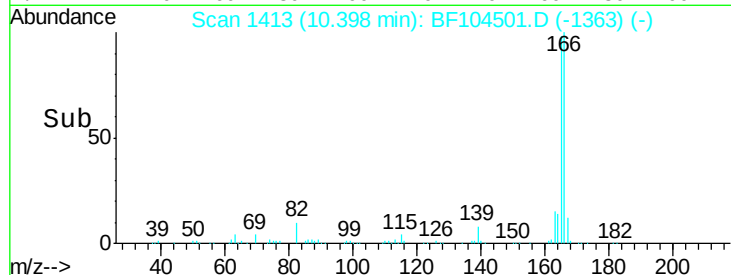
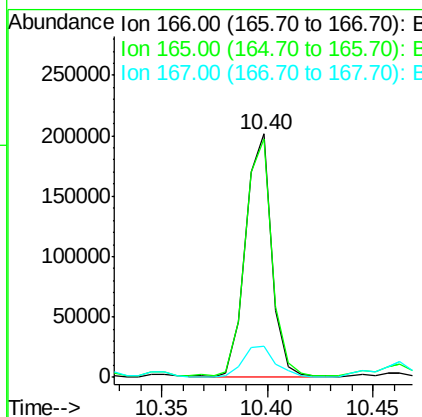
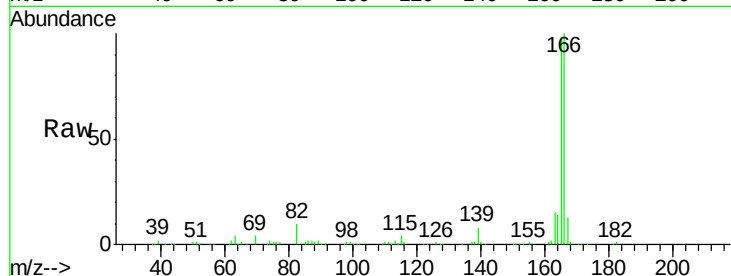
#57
 Fluorene
 Concen: 13.053 ng
 RT: 10.40 min Scan# 1413
 Delta R.T. -0.01 min
 Lab File: BF104501.D
 Acq: 14 Apr 2018 3:29

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

Tot Ion	Ratio	Lower	Upper
166	100		
165	97.9	79.8	119.8
167	12.7	10.6	16.0

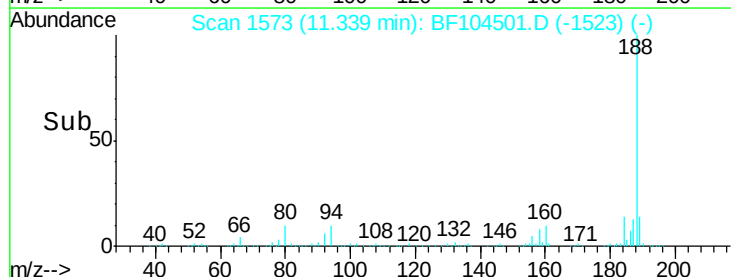
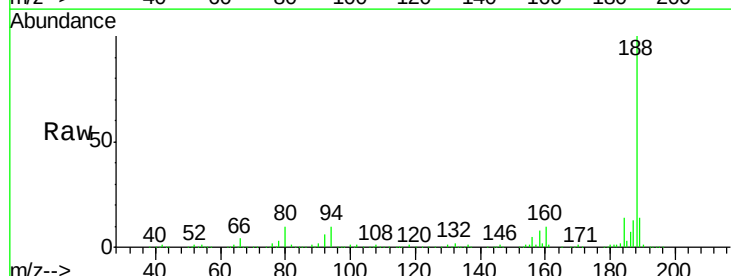
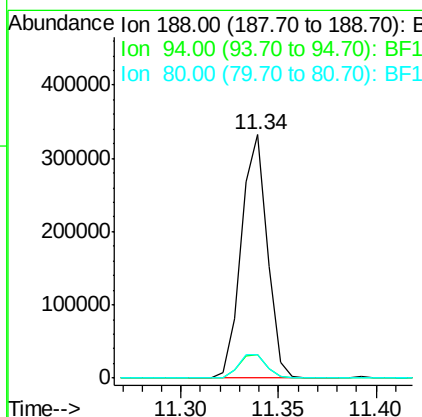
Manual Integrations
 APPROVED

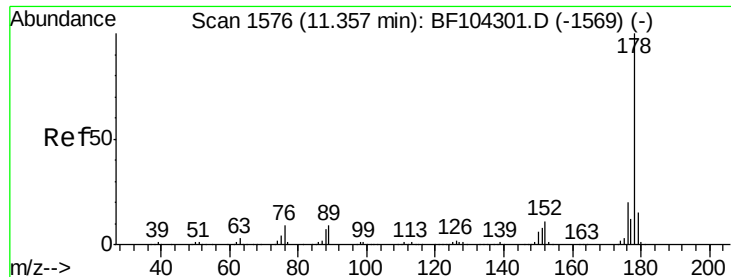
Sohil
 4/16/2018 3:10:38 PM



#63
 Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.34 min Scan# 1573
 Delta R.T. -0.01 min
 Lab File: BF104501.D
 Acq: 14 Apr 2018 3:29

Tgt Ion	Ratio	Lower	Upper
188	100		
94	9.6	8.5	12.7
80	9.7	9.2	13.8





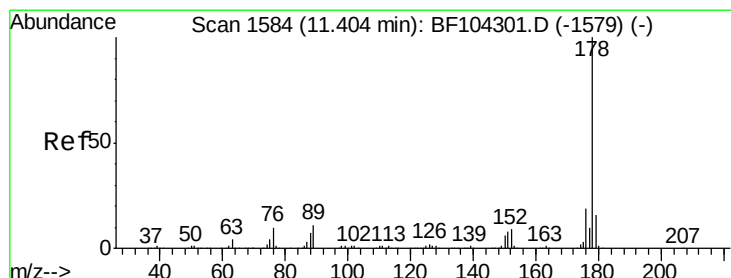
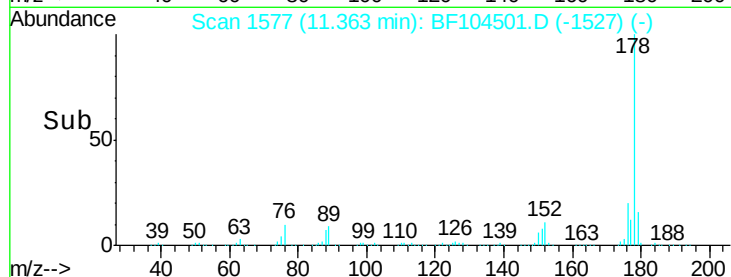
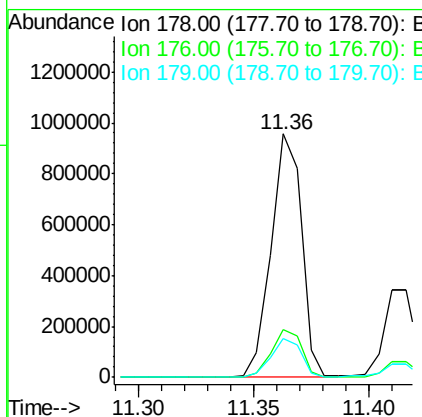
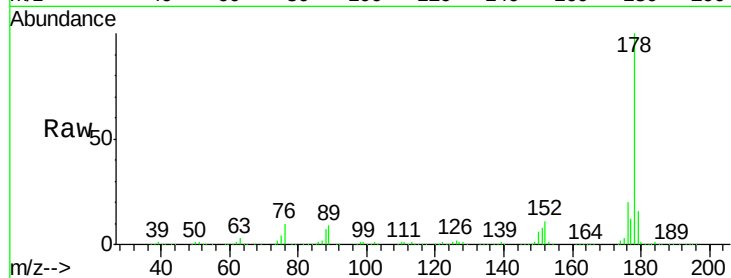
#70
Phenanthrene
Concen: 51.178 ng
RT: 11.36 min Scan# 1577
Delta R.T. -0.01 min
Lab File: BF104501.D
Acq: 14 Apr 2018 3:29

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

Tot Ion	Ratio	Lower	Upper
178	100		
176	19.7	15.8	23.8
179	16.1	13.0	19.6

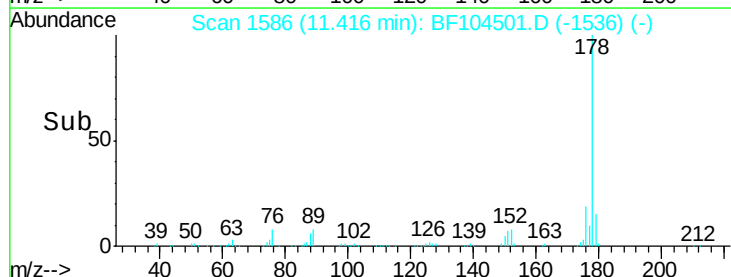
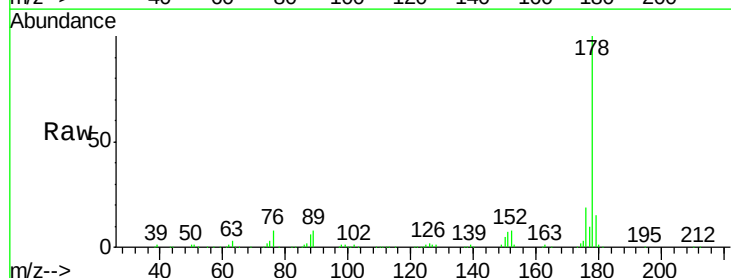
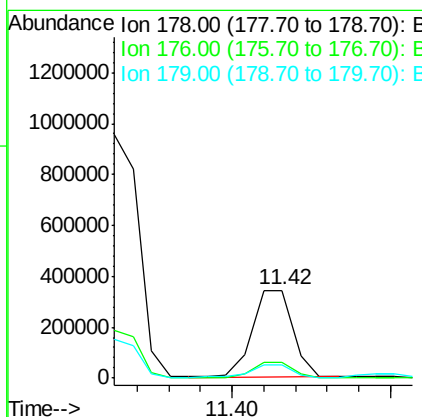
Manual Integrations
APPROVED

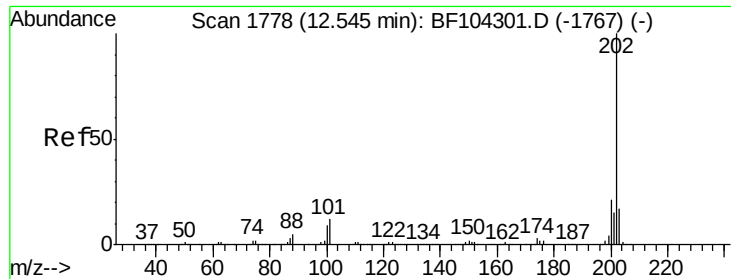
Sohil
4/16/2018 3:10:38 PM



#71
Anthracene
Concen: 17.618 ng
RT: 11.42 min Scan# 1586
Delta R.T. -0.01 min
Lab File: BF104501.D
Acq: 14 Apr 2018 3:29

Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.5	15.4	23.2
179	15.1	12.6	19.0





#74

Fluoranthene

Concen: 41.389 ng

RT: 12.56 min Scan# 1780

Delta R.T. 0.00 min

Lab File: BF104501.D

Acq: 14 Apr 2018 3:29

Instrument :

BNA_F

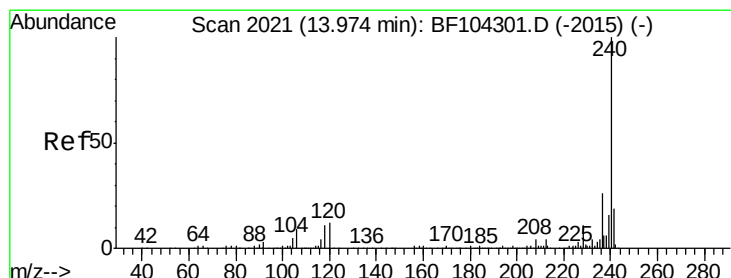
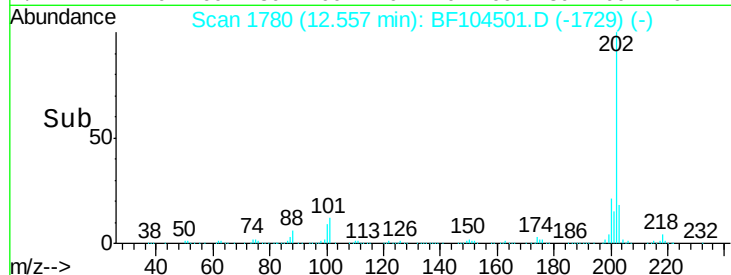
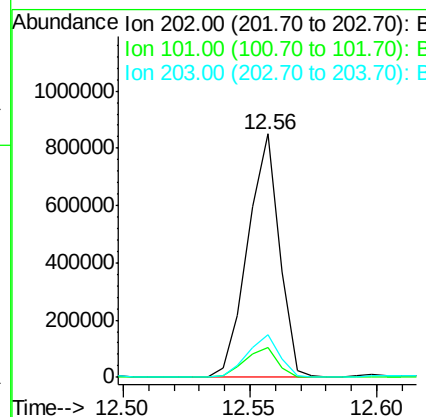
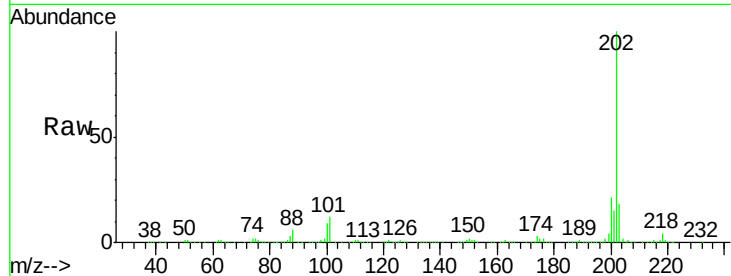
ClientSampleId :

PL-01-041118-BDL

Tot Ion	Ratio	Resp	Lower	Upper
202	100	739104		
101	12.0	0.0	34.1	
203	17.7	0.0	38.1	

Manual Integrations
APPROVED

Sohil
4/16/2018 3:10:38 PM



#75

Chrysene-d12

Concen: 20.000 ng

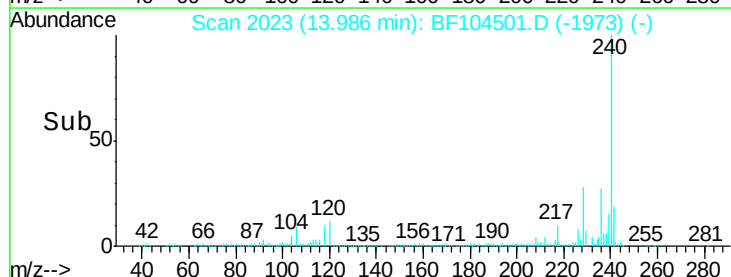
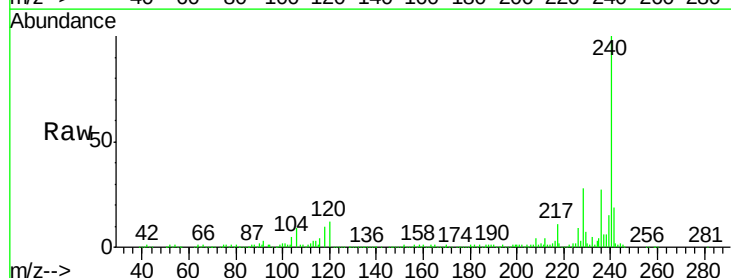
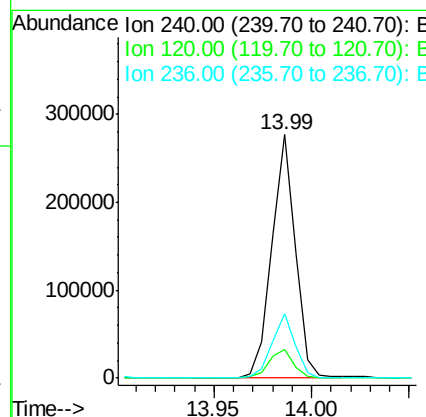
RT: 13.99 min Scan# 2023

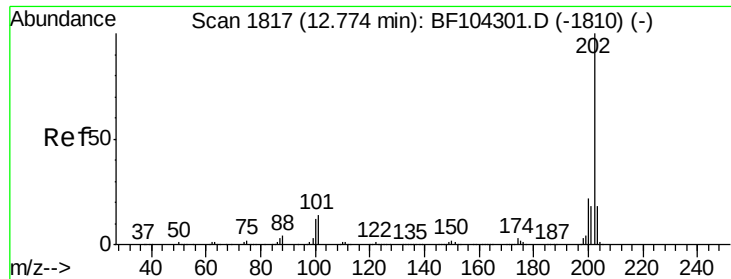
Delta R.T. -0.01 min

Lab File: BF104501.D

Acq: 14 Apr 2018 3:29

Tgt Ion	Ratio	Resp	Lower	Upper
240	100	231598		
120	11.7	9.5	14.3	
236	26.6	20.7	31.1	





#77

Pvrene

Concen: 49.634 ng

RT: 12.79 min Scan# 1819

Delta R.T. -0.01 min

Lab File: BF104501.D

Acq: 14 Apr 2018 3:29

Instrument :

BNA_F

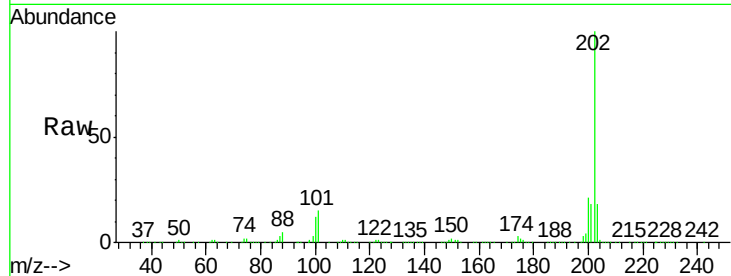
ClientSampleId :

PL-01-041118-BDL

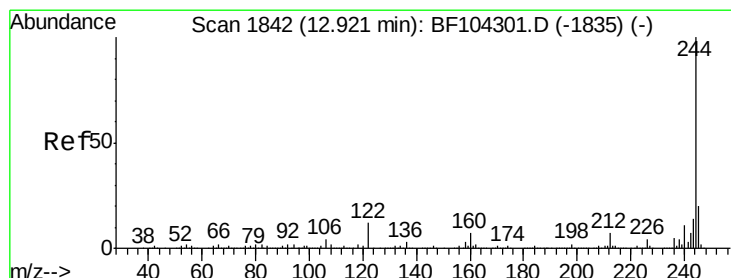
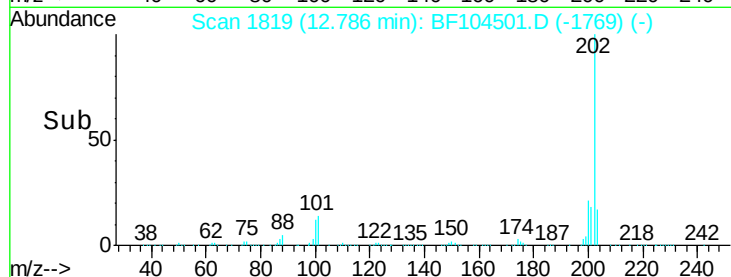
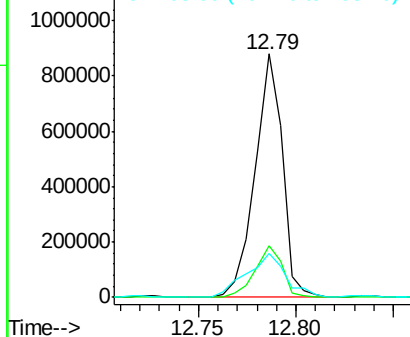
Tot Ion:	202	Resp:	852054
Ion Ratio	Lower	Upper	
202	100		
200	21.3	17.4	26.2
203	17.9	14.3	21.5

Manual Integrations
APPROVED

Sohil
4/16/2018 3:10:38 PM



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



#78

Terphenyl-d14

Concen: 7.930 ng

RT: 12.92 min Scan# 1842

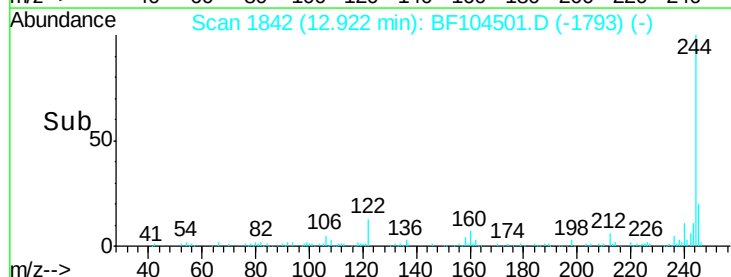
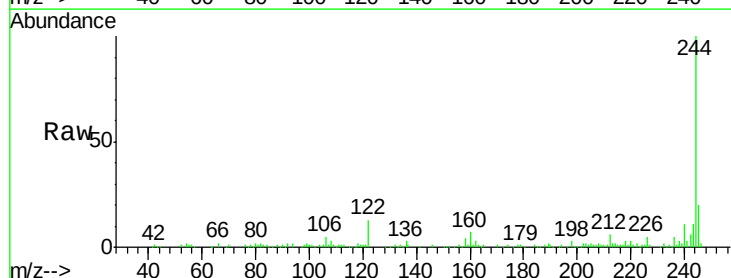
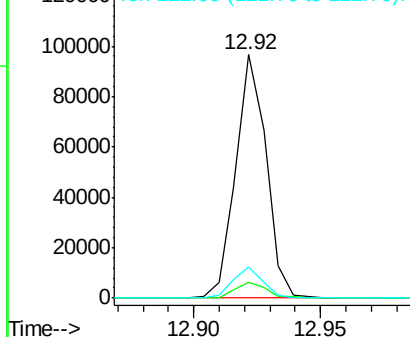
Delta R.T. -0.01 min

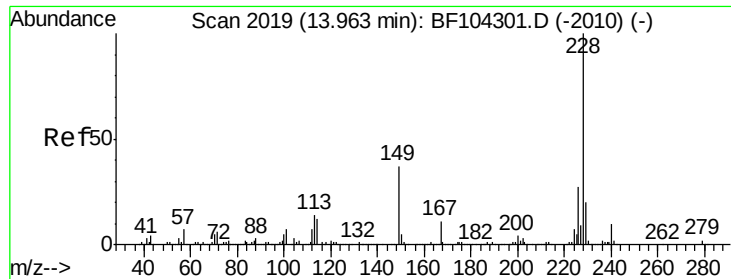
Lab File: BF104501.D

Acq: 14 Apr 2018 3:29

Tgt Ion:	244	Resp:	80558
Ion Ratio	Lower	Upper	
244	100		
212	6.4	5.4	8.0
122	12.9	11.0	16.4

Abundance Ion 244.00 (243.70 to 244.70): E
Ion 212.00 (211.70 to 212.70): E
Ion 122.00 (121.70 to 122.70): E





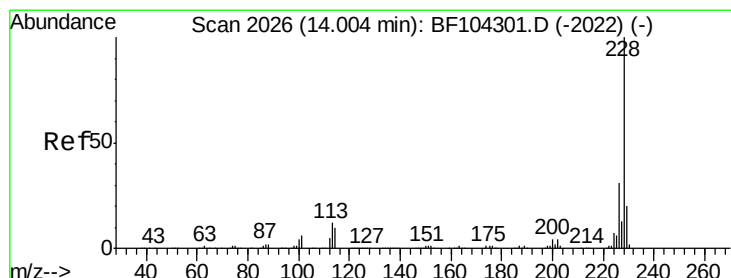
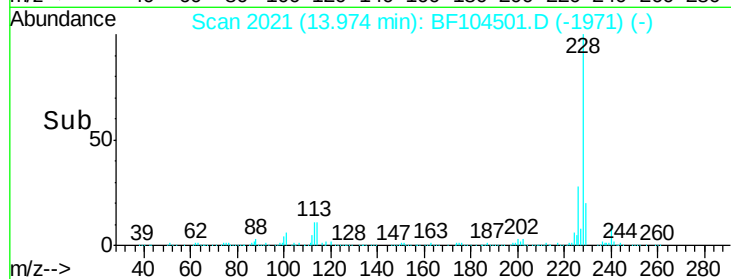
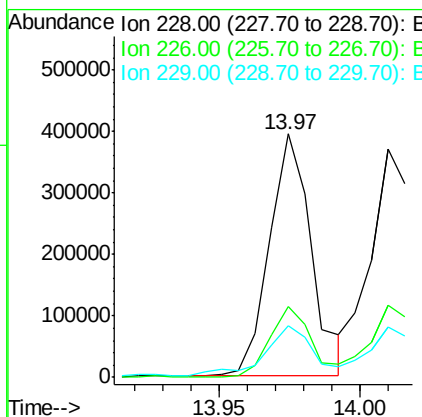
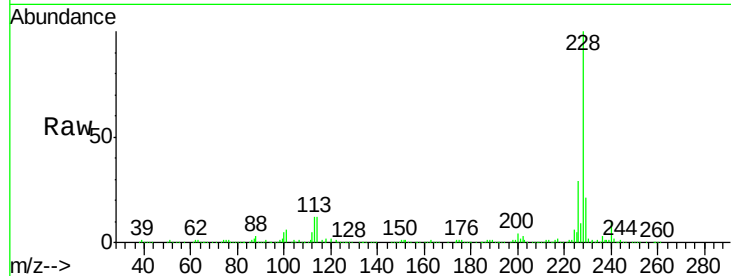
#80
Benzo(a)anthracene
Concen: 29.564 ng
RT: 13.97 min Scan# 2021
Delta R.T. -0.01 min
Lab File: BF104501.D
Acq: 14 Apr 2018 3:29

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

Tot Ion	Ratio	Lower	Upper
228	100		
226	29.0	22.6	33.8
229	21.3	15.8	23.6

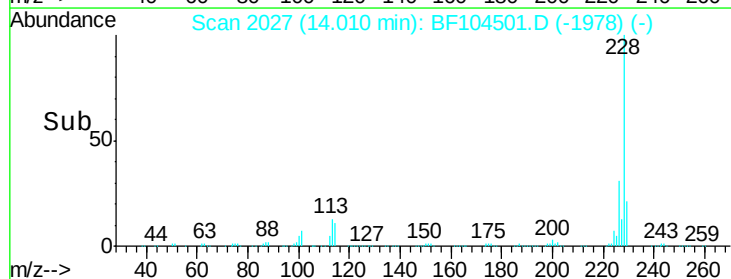
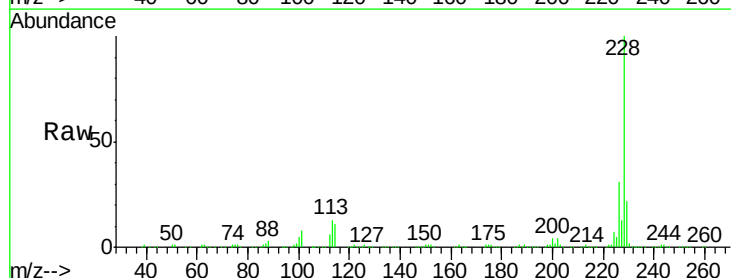
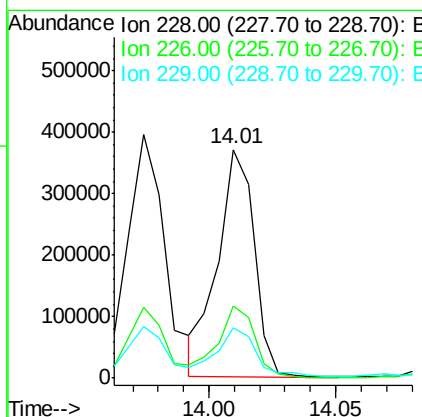
Manual Integrations
APPROVED

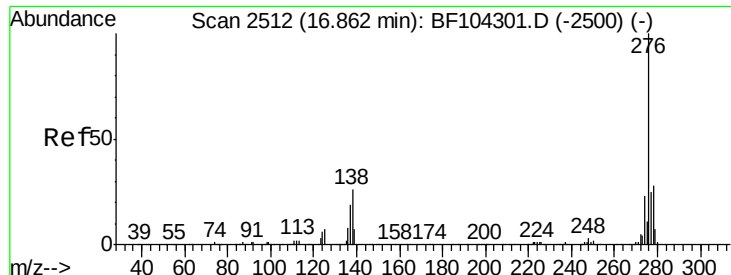
Sohil
4/16/2018 3:10:38 PM



#82
Chrysene
Concen: 26.241 ng
RT: 14.01 min Scan# 2027
Delta R.T. -0.01 min
Lab File: BF104501.D
Acq: 14 Apr 2018 3:29

Tgt Ion	Ratio	Lower	Upper
228	100		
226	31.3	25.0	37.6
229	22.0	16.2	24.4





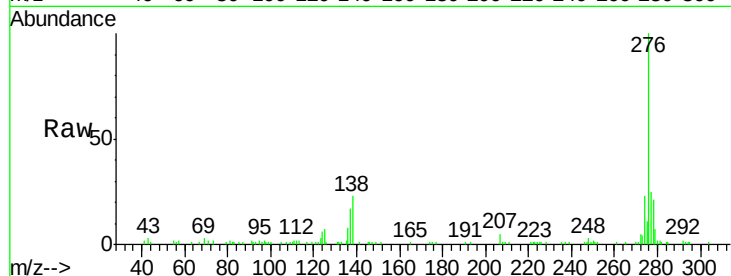
#85
Indeno(1,2,3-cd)pyrene
Concen: 7.479 ng
RT: 16.90 min Scan# 2519
Delta R.T. -0.02 min
Lab File: BF104501.D
Acq: 14 Apr 2018 3:29

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

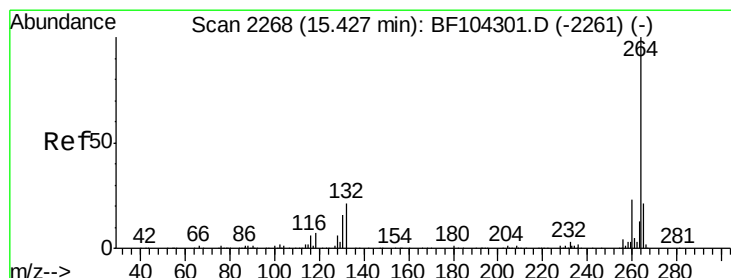
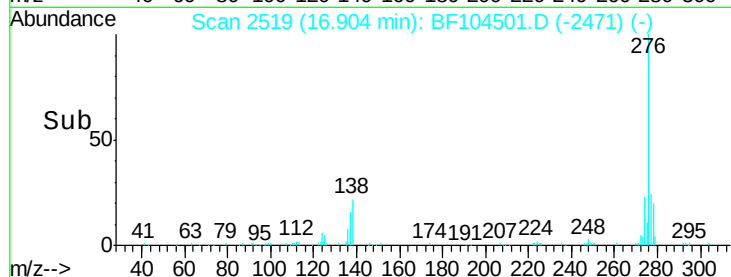
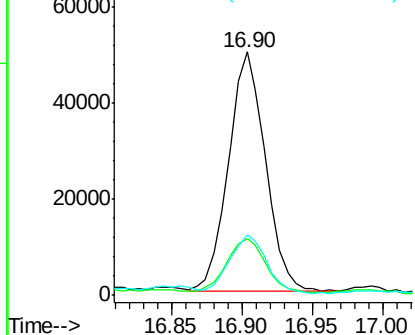
Tot Ion	Ratio	Lower	Upper
276	100		
138	23.9	25.0	37.6#
277	24.6	20.1	30.1

Manual Integrations
APPROVED

Sohil
4/16/2018 3:10:38 PM

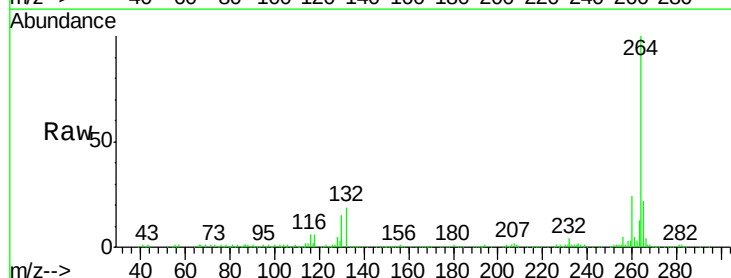


Abundance Ion 276.00 (275.70 to 276.70): E
Ion 138.00 (137.70 to 138.70): E
Ion 277.00 (276.70 to 277.70): E

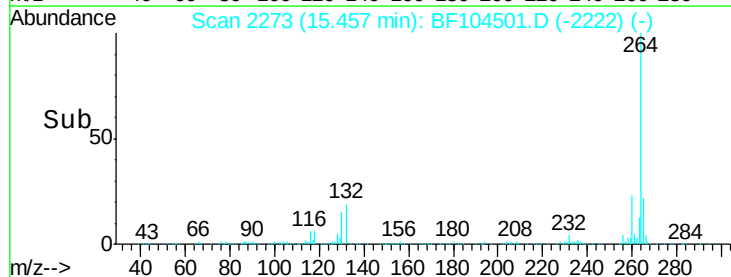
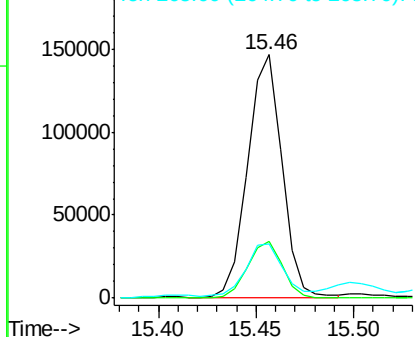


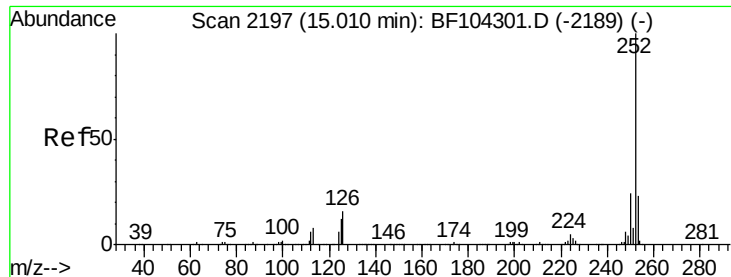
#86
Perylene-d12
Concen: 20.000 ng
RT: 15.46 min Scan# 2273
Delta R.T. 0.00 min
Lab File: BF104501.D
Acq: 14 Apr 2018 3:29

Tgt Ion	Ratio	Lower	Upper
264	100		
260	23.5	19.2	28.8
265	22.3	17.5	26.3



Abundance Ion 264.00 (263.70 to 264.70): E
Ion 260.00 (259.70 to 260.70): E
Ion 265.00 (264.70 to 265.70): E





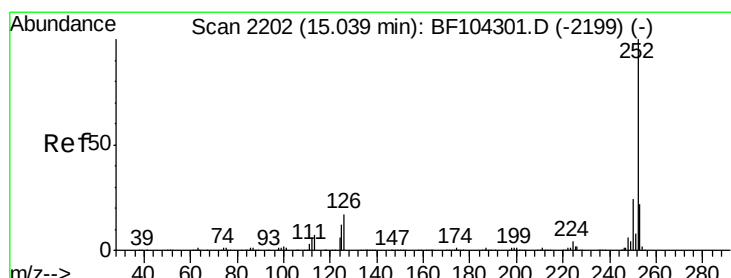
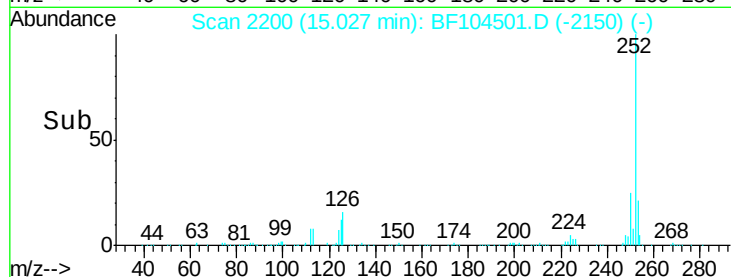
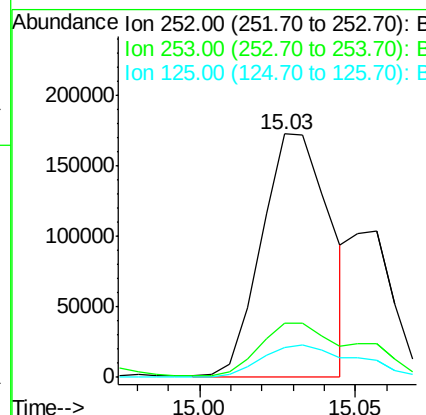
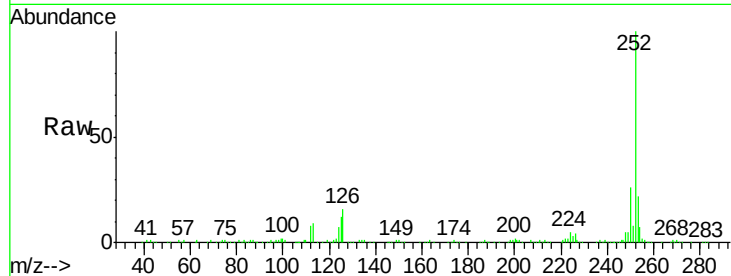
#87
Benzo(b)fluoranthene
Concen: 23.360 ng m
RT: 15.03 min Scan# 2200
Delta R.T. -0.01 min
Lab File: BF104501.D
Acq: 14 Apr 2018 3:29

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

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.1	17.0	25.6
125	12.4	9.0	13.6

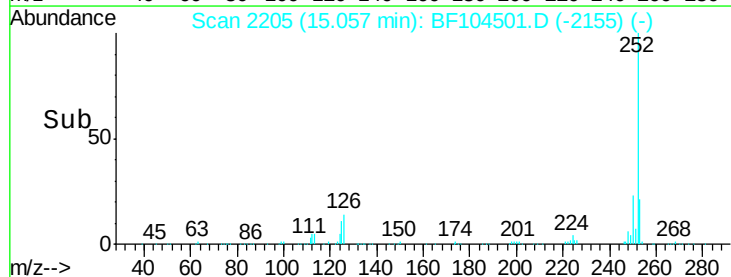
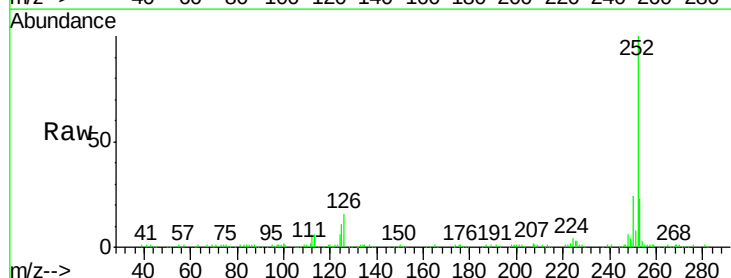
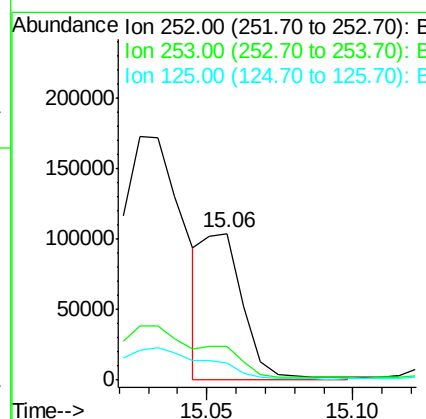
Manual Integrations
APPROVED

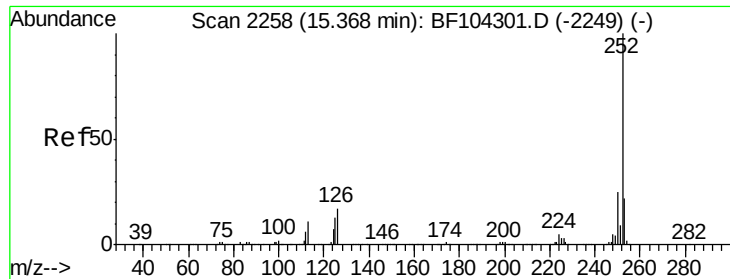
Sohil
4/16/2018 3:10:38 PM



#88
Benzo(k)fluoranthene
Concen: 9.429 ng m
RT: 15.06 min Scan# 2205
Delta R.T. -0.01 min
Lab File: BF104501.D
Acq: 14 Apr 2018 3:29

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.9	17.9	26.9
125	11.3	10.2	15.2





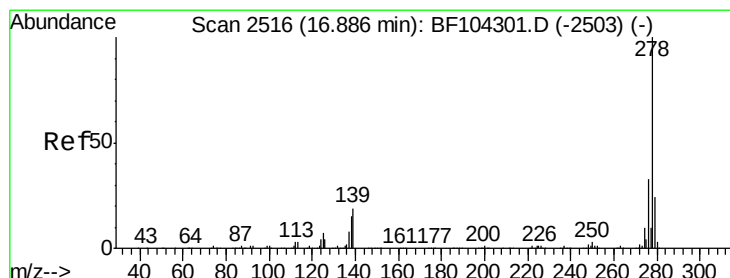
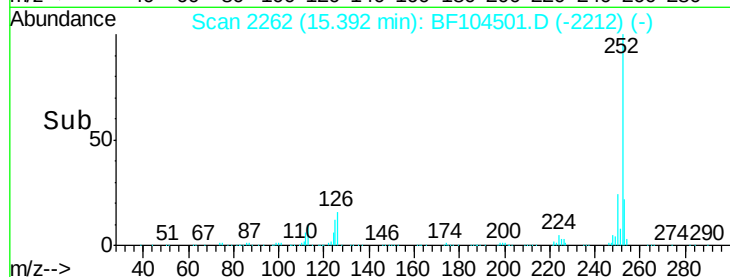
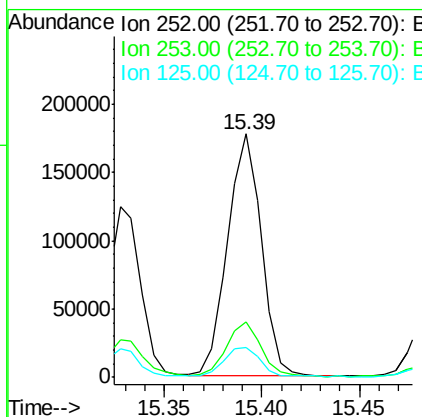
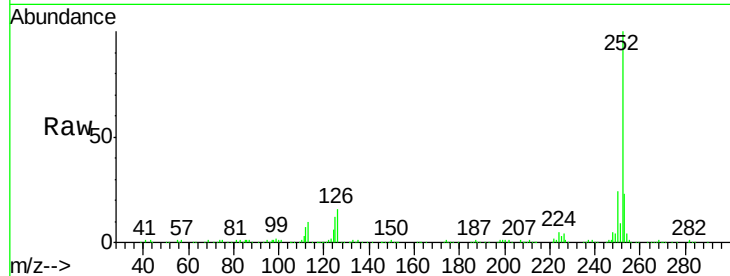
#89
Benzo(a)pyrene
Concen: 21.275 ng
RT: 15.39 min Scan# 2262
Delta R.T. -0.01 min
Lab File: BF104501.D
Acq: 14 Apr 2018 3:29

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

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.6	17.1	25.7
125	12.3	9.8	14.6

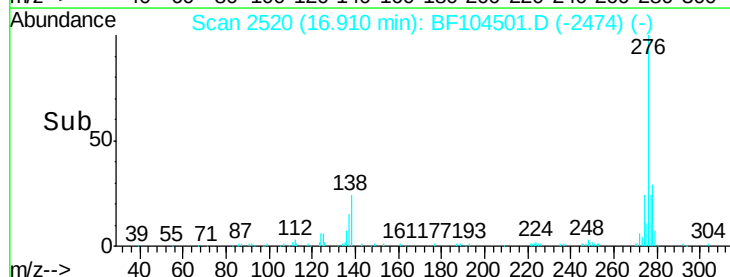
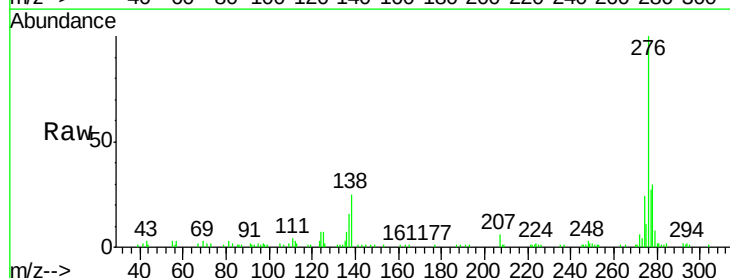
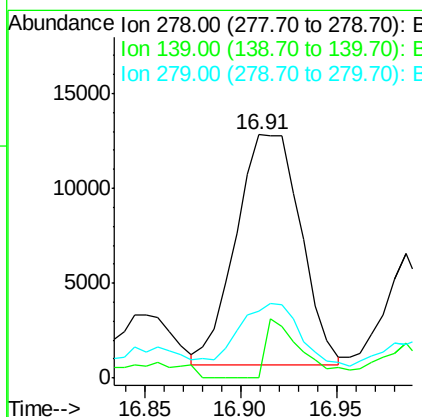
Manual Integrations
APPROVED

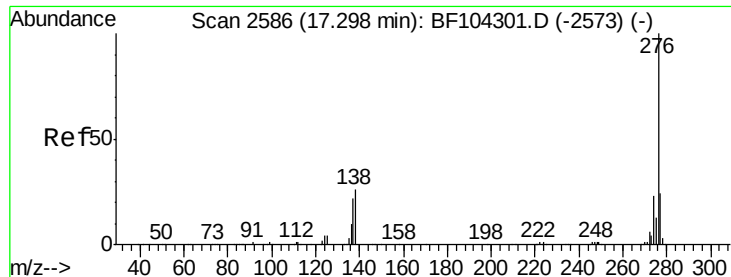
Sohil
4/16/2018 3:10:38 PM



#90
Dibenzo(a,h)anthracene
Concen: 3.443 ng m
RT: 16.91 min Scan# 2520
Delta R.T. -0.03 min
Lab File: BF104501.D
Acq: 14 Apr 2018 3:29

Tgt Ion	Ratio	Lower	Upper
278	100		
139	0.0	15.9	23.9#
279	27.4	19.0	28.4





#91
 Benzo(a,h,i)perylene
 Concen: 12.437 ng
 RT: 17.34 min Scan# 2594
 Delta R.T. -0.02 min
 Lab File: BF104501.D
 Acq: 14 Apr 2018 3:29

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

Tot Ion	Ratio	Lower	Upper
276	100		
277	22.7	17.9	26.9
138	24.5	21.8	32.8

Manual Integrations
 APPROVED

Sohil
 4/16/2018 3:10:38 PM

