

Data Path : \\74.0.250.170\SV0ASRV\HPCHEM1\BNA F\DATA\BF040218\
 Data File : BF104138.D
 Acq On : 2 Apr 2018 16:34
 Operator : JU/SJ
 Sample : J2173-01
 Misc :
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 QNWP8-MW26S-GW

Manual Integrations
 APPROVED

Sohil
 4/3/2018 2:27:15 PM

Quant Time: Apr 02 17:40:38 2018
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF032818.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Apr 02 13:40:00 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.97	152	104262	20.00	ng	0.00
21) Naphthalene-d8	8.24	136	185298	20.00	ng	0.00
38) Acenaphthene-d10	10.00	164	187102	20.00	ng	0.00
63) Phenanthrene-d10	11.50	188	254501	20.00	ng	0.00
75) Chrysene-d12	14.15	240	221476	20.00	ng	0.00
86) Perylene-d12	15.70	264	239663	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.62	112	141070	21.58	ng	0.04
7) Phenol-d6	6.63	99	249135	30.97	ng	0.03
23) Nitrobenzene-d5	7.54	82	540762	178.47	ng	0.01
41) 2,4,6-Tribromophenol	10.81	330	199465	95.74	ng	0.01
44) 2-Fluorobiphenyl	9.32	172	986797	83.17	ng	0.00
78) Terphenyl-d14	13.08	244	557799	58.15	ng	0.00
Target Compounds						
2) 1,4-Dioxane	2.79	88	15047	5.336	ng	92
3) Pyridine	3.62	79	83774m	11.736	ng	
6) Aniline	6.65	93	316726	32.893	ng	# 75
17) 2-Methylphenol	7.22	107	194403	33.305	ng	93
20) 3+4-Methylphenols	7.39	107	866997	116.384	ng	94
27) 2,4-Dimethylphenol	7.95	122	1611645	671.521	ng	99
31) Naphthalene	8.30	128	18134492m	2003.270	ng	
37) 2-Methylnaphthalene	8.97	142	1779696	298.462	ng	94
45) 1,1'-Biphenyl	9.42	154	733055	45.649	ng	99
48) Acenaphthylene	9.87	152	153097	7.978	ng	# 93
49) Dimethylphthalate	9.72	163	85079	5.759	ng	96
51) Acenaphthene	10.05	154	1077066	97.021	ng	99
54) Dibenzofuran	10.22	168	1366353	84.284	ng	99
57) Fluorene	10.56	166	796640	59.573	ng	98
70) Phenanthrene	11.53	178	1067069	77.442	ng	99
71) Anthracene	11.58	178	199278	13.846	ng	98
72) Carbazole	11.74	167	768805	55.967	ng	99
74) Fluoranthene	12.73	202	111688	7.626	ng	99
77) Pyrene	12.96	202	70791	4.446	ng	98

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

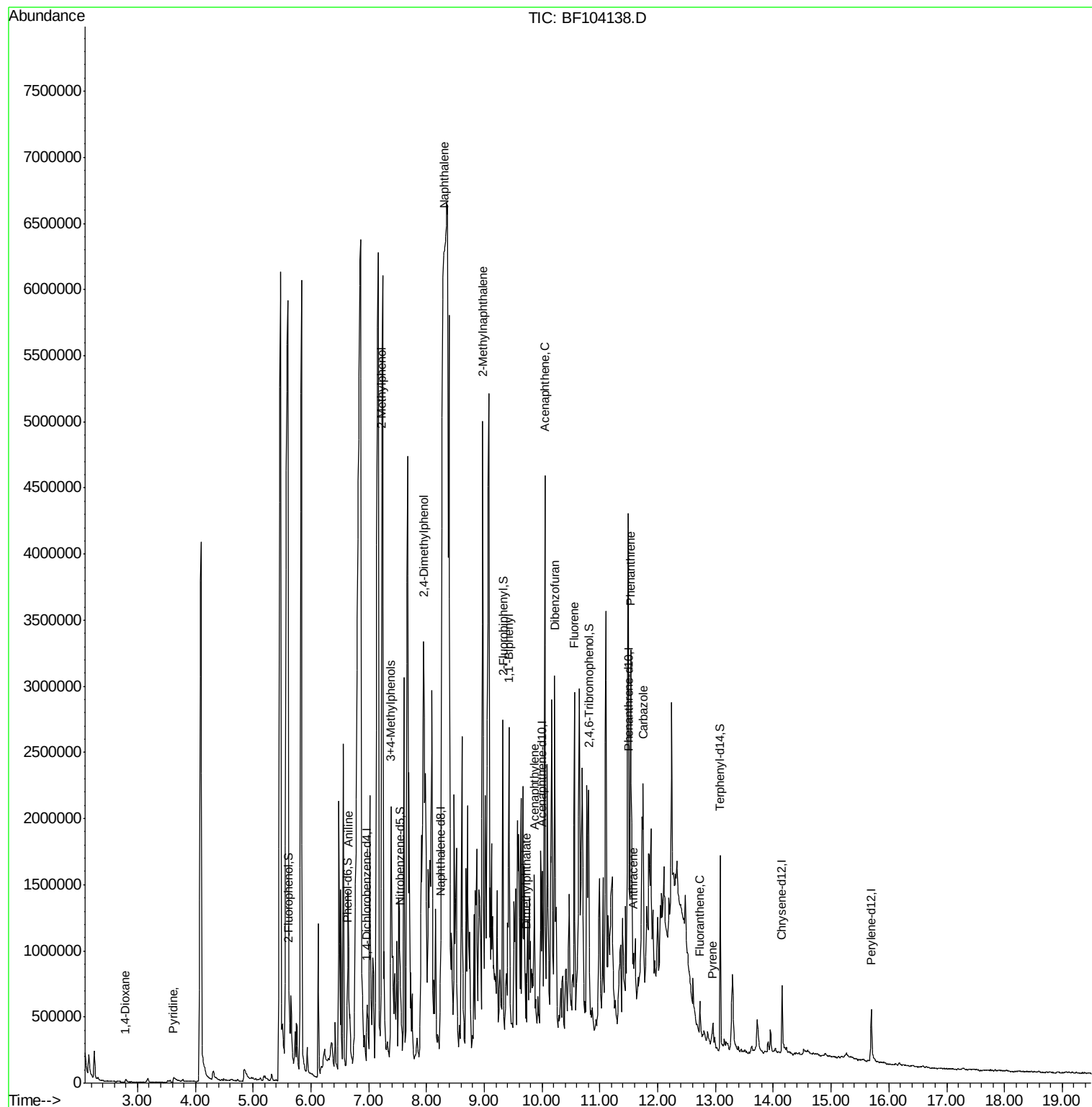
Data Path : \\74.0.250.170\SV0ASRV\HPCHEM1\BNA F\DATA\BF040218\
Data File : BF104138.D
Acq On : 2 Apr 2018 16:34
Operator : JU/SJ
Sample : J2173-01
Misc :
ALS Vial : 15 Sample Multiplier: 1

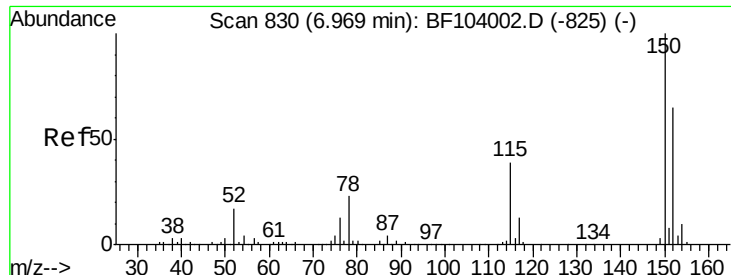
Instrument :
BNA_F
ClientSampleId :
QNWP8-MW26S-GW

Manual Integrations
APPROVED

Sohil
4/3/2018 2:27:15 PM

Quant Time: Apr 02 17:40:38 2018
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF032818.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Apr 02 13:40:00 2018
Response via : Initial Calibration





#1

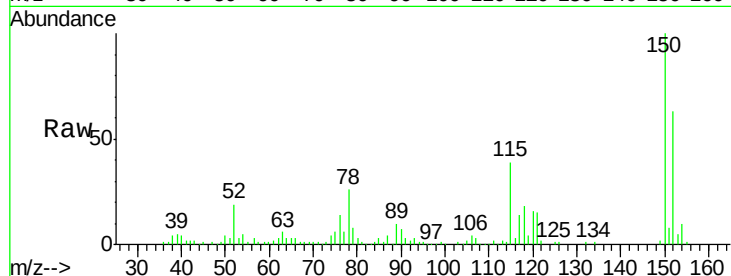
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.97 min Scan# 830
Delta R.T. 0.01 min
Lab File: BF104138.D
Acq: 2 Apr 2018 16:34

Instrument :
BNA_F
ClientSampleId :
QNWP8-MW26S-GW

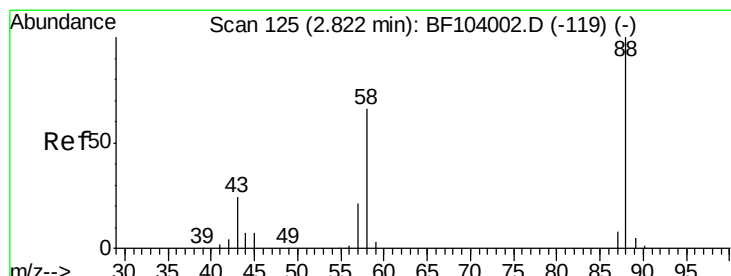
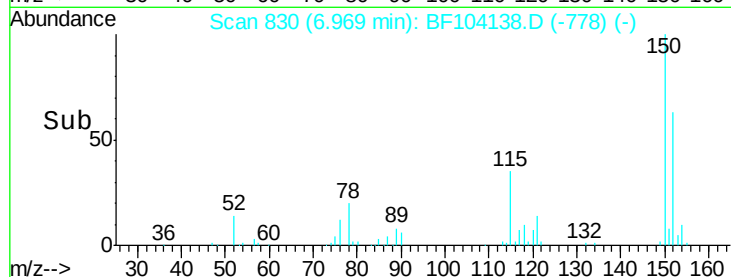
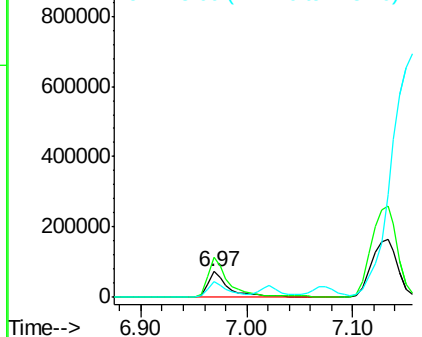
Tot Ion	Ratio	Lower	Upper
152	100		
150	157.8	124.6	186.8
115	61.7	50.1	75.1

Manual Integrations
APPROVED

Sohil
4/3/2018 2:27:15 PM



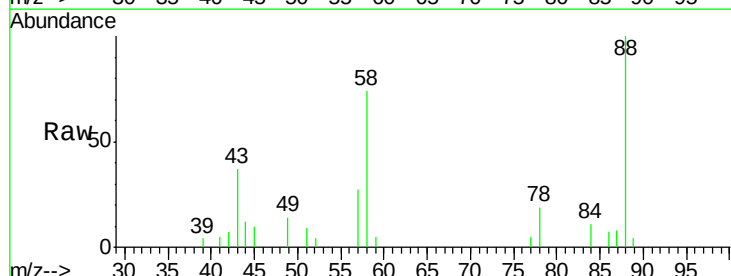
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



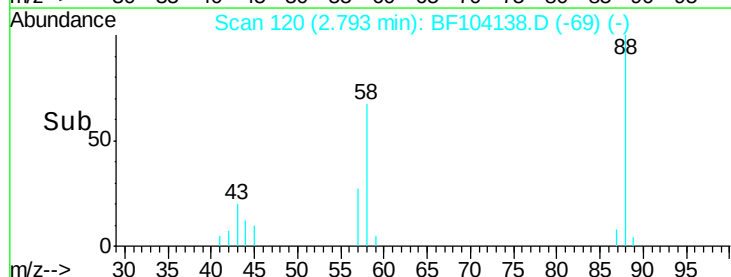
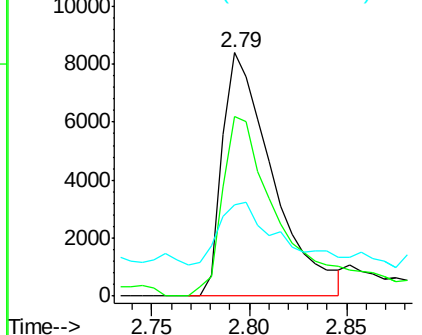
#2

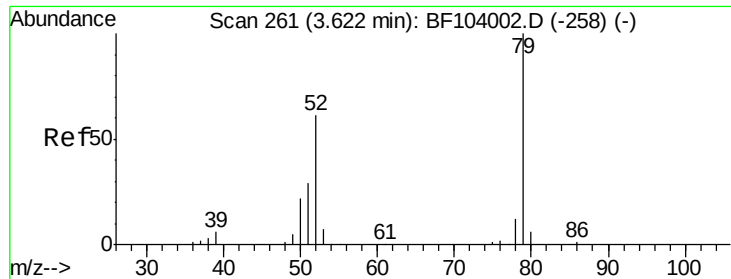
1,4-Dioxane
Concen: 5.336 ng
RT: 2.79 min Scan# 120
Delta R.T. -0.00 min
Lab File: BF104138.D
Acq: 2 Apr 2018 16:34

Tgt Ion	Ratio	Lower	Upper
88	100		
58	88.1	62.6	93.8
43	30.4	24.6	37.0



Abundance Ion 88.00 (87.70 to 88.70): BF1
Ion 58.00 (57.70 to 58.70): BF1
Ion 43.00 (42.70 to 43.70): BF1





#3

Pvridine

Concen: 11.736 ng/ml

RT: 3.62 min Scan# 261

Delta R.T. 0.02 min

Lab File: BF104138.D

Acq: 2 Apr 2018 16:34

Instrument :

BNA_F

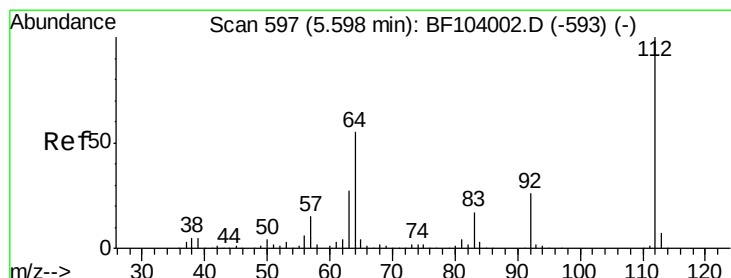
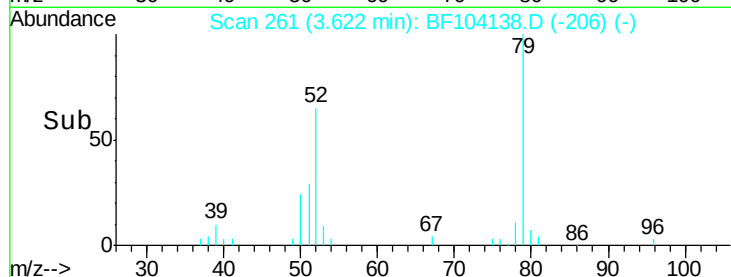
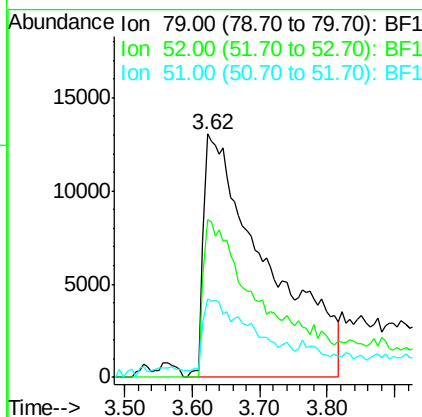
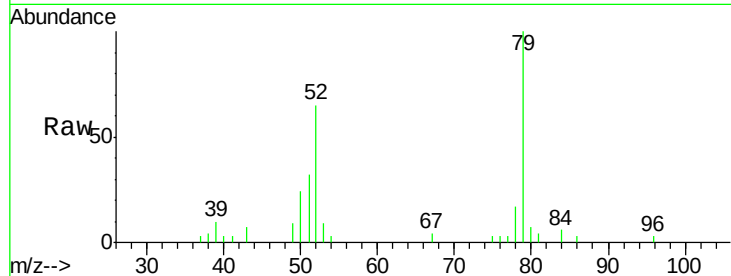
ClientSampleId :

QNWP8-MW26S-GW

Tot Ion:	79	Resp:	83774
Ion	Ratio	Lower	Upper
79	100		
52	64.9	59.8	89.6
51	32.2	29.8	44.8

Manual Integrations
APPROVED

Sohil
4/3/2018 2:27:15 PM



#5

2-Fluorophenol

Concen: 21.577 ng/ml

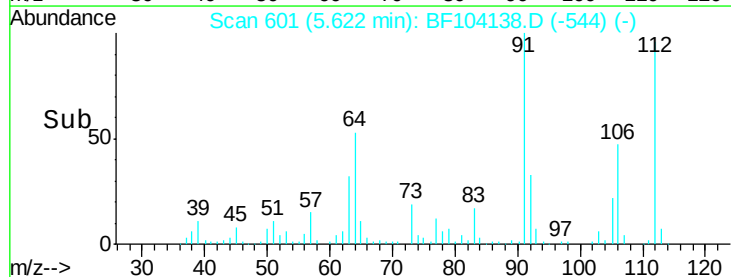
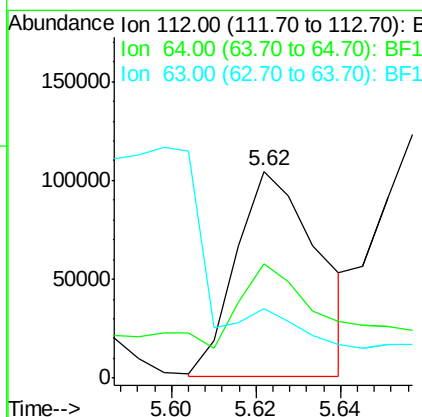
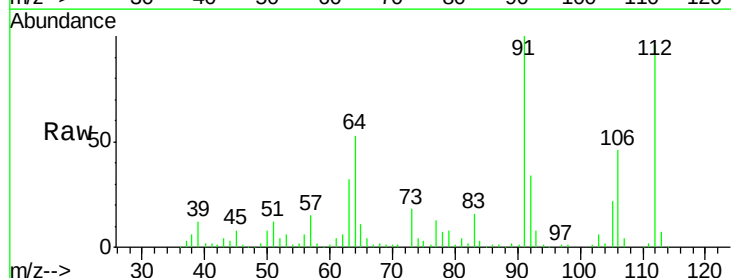
RT: 5.62 min Scan# 601

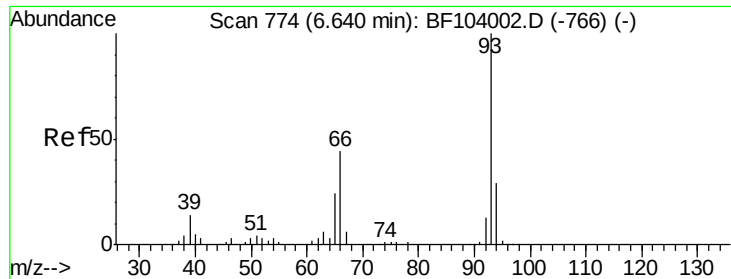
Delta R.T. 0.04 min

Lab File: BF104138.D

Acq: 2 Apr 2018 16:34

Tgt Ion:	112	Resp:	141070
Ion	Ratio	Lower	Upper
112	100		
64	55.0	47.9	71.9
63	33.3	23.7	35.5





#6

Aniline

Concen: 32.893 ng

RT: 6.65 min Scan# 776

Delta R.T. 0.02 min

Lab File: BF104138.D

Acq: 2 Apr 2018 16:34

Instrument :

BNA_F

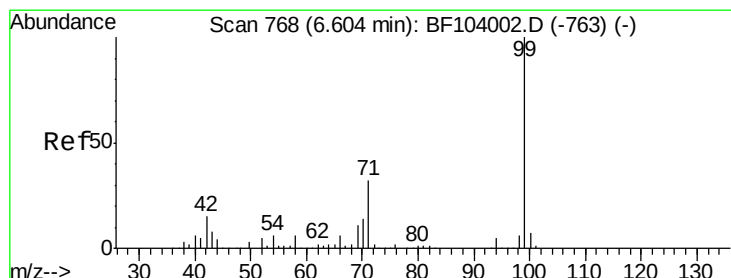
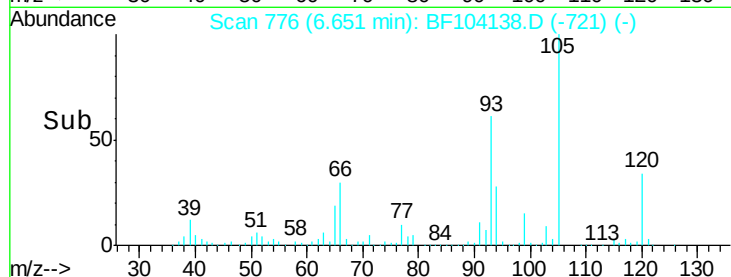
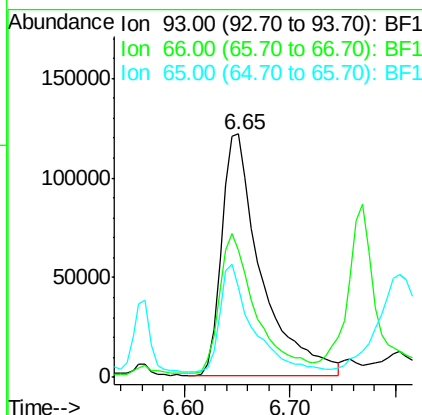
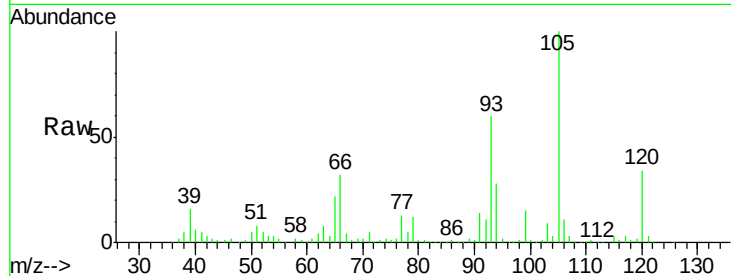
ClientSampleId :

QNWP8-MW26S-GW

Tot Ion:	93	Resp:	316726
Ion Ratio	Lower	Upper	
93	100		
66	52.5	32.2	48.2#
65	37.0	16.4	24.6#

Manual Integrations
APPROVED

Sohil
4/3/2018 2:27:15 PM



#7

Phenol-d6

Concen: 30.973 ng

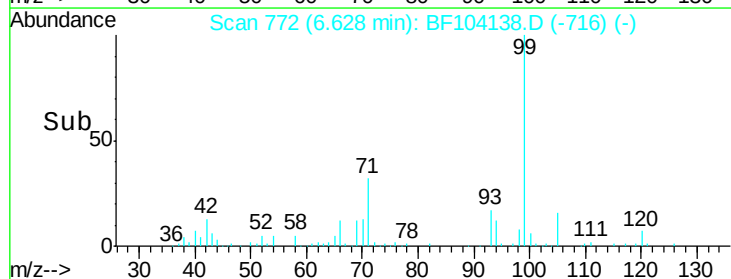
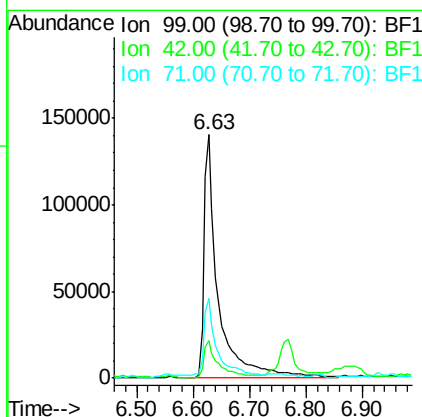
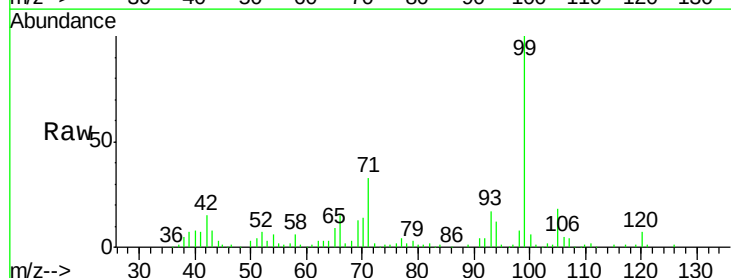
RT: 6.63 min Scan# 772

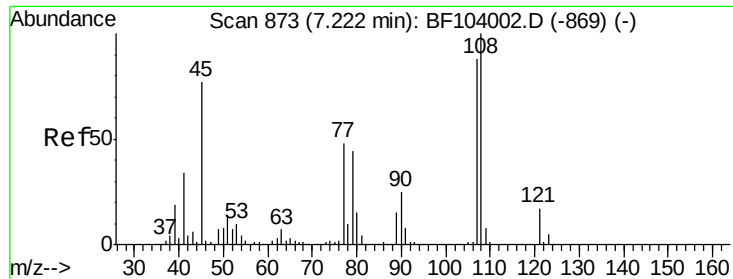
Delta R.T. 0.03 min

Lab File: BF104138.D

Acq: 2 Apr 2018 16:34

Tgt Ion:	99	Resp:	249135
Ion Ratio	Lower	Upper	
99	100		
42	15.5	14.5	21.7
71	32.9	25.4	38.0





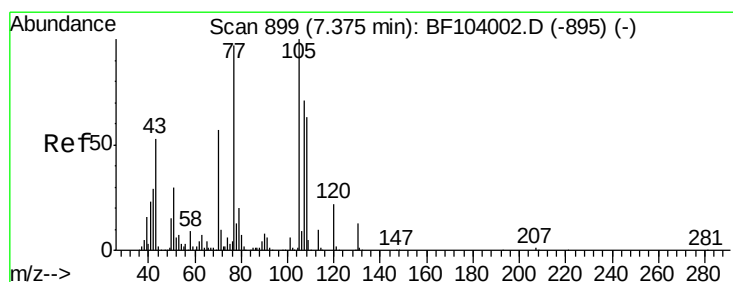
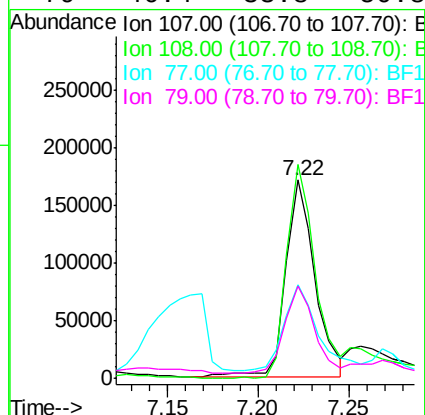
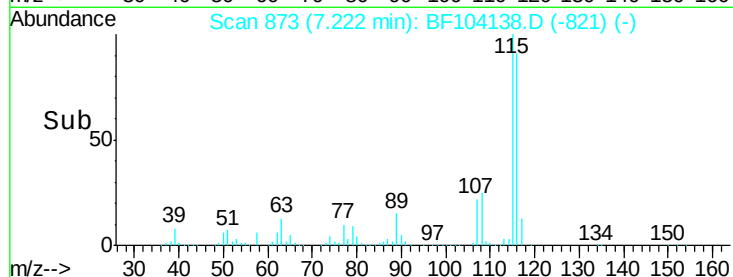
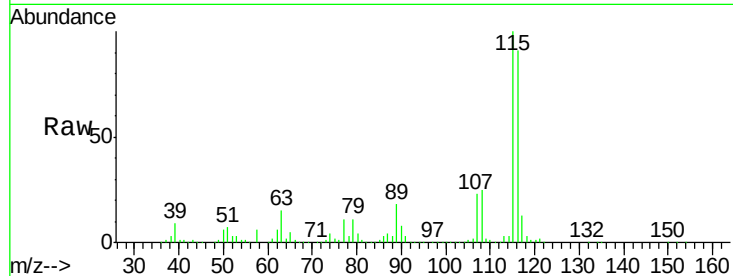
#17
2-Methylphenol
Concen: 33.305 ng
RT: 7.22 min Scan# 873
Delta R.T. 0.01 min
Lab File: BF104138.D
Acq: 2 Apr 2018 16:34

Instrument :
BNA_F
ClientSampleId :
QNWP8-MW26S-GW

Tot Ion:	107	Resp:	194403
Ion	Ratio	Lower	Upper
107	100		
108	107.7	91.7	137.5
77	47.2	33.8	50.8
79	46.4	33.8	50.8

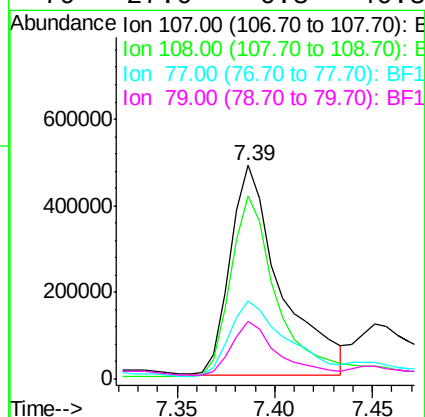
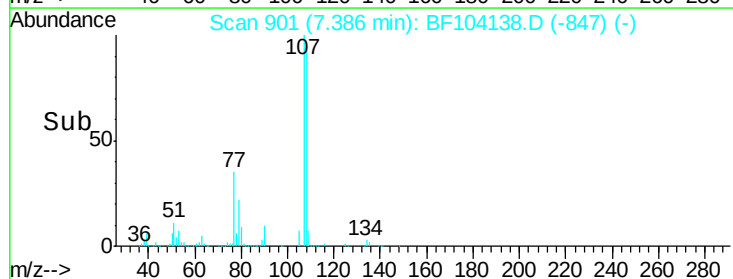
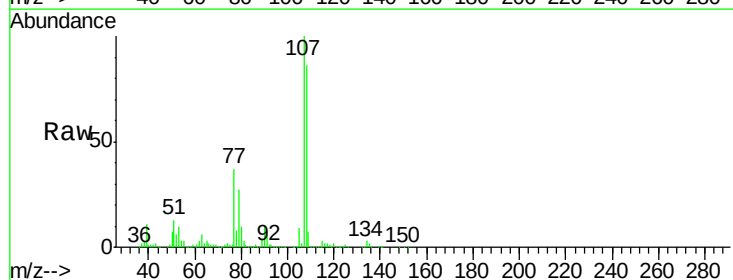
Manual Integrations
APPROVED

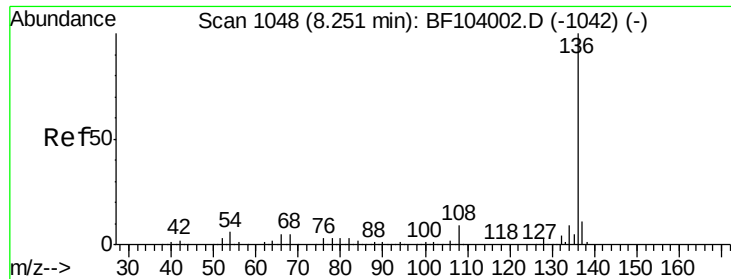
Sohil
4/3/2018 2:27:15 PM



#20
3+4-Methylphenols
Concen: 116.384 ng
RT: 7.39 min Scan# 901
Delta R.T. 0.02 min
Lab File: BF104138.D
Acq: 2 Apr 2018 16:34

Tgt Ion:	107	Resp:	866997
Ion	Ratio	Lower	Upper
107	100		
108	85.5	68.2	108.2
77	36.8	26.7	66.7
79	27.0	6.3	46.3





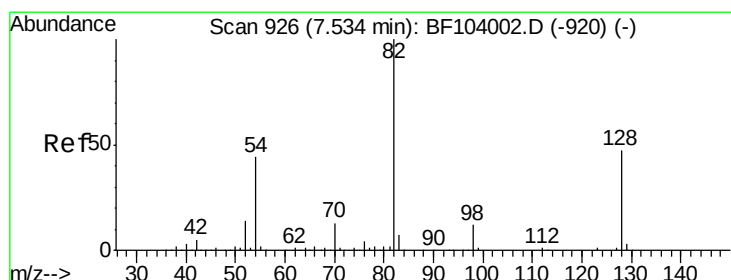
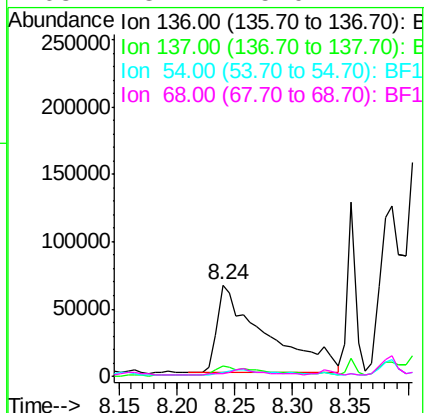
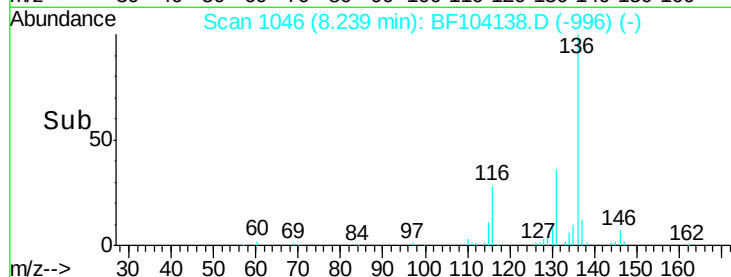
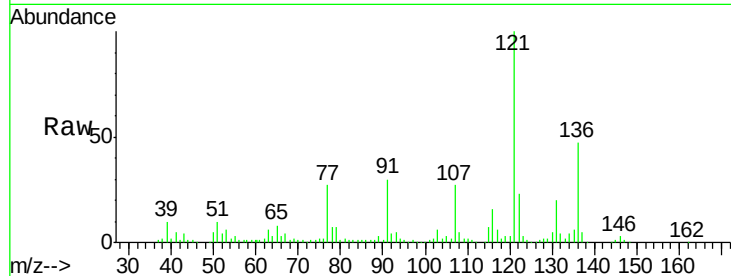
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.24 min Scan# 1046
Delta R.T. -0.01 min
Lab File: BF104138.D
Acq: 2 Apr 2018 16:34

Instrument :
BNA_F
ClientSampleId :
QNWP8-MW26S-GW

Tot Ion	Ion	Ratio	Resp	Lower	Upper
136	100				
137	11.6	8.9	13.3		
54	3.7	6.6	9.8#		
68	3.1	5.0	7.4#		

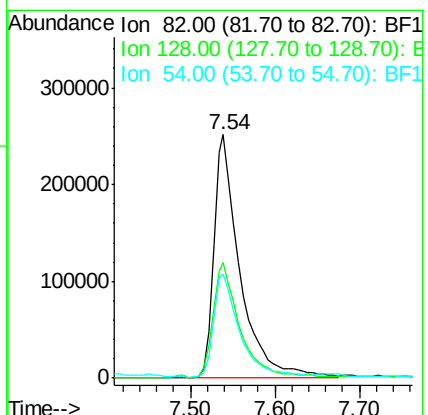
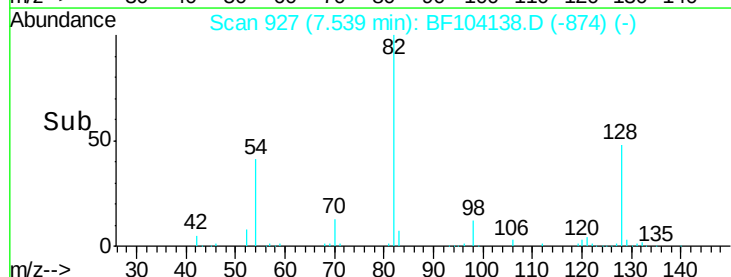
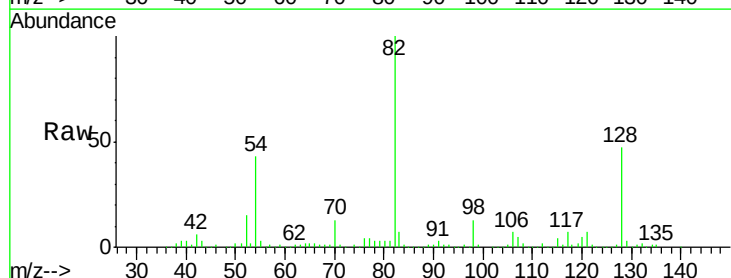
Manual Integrations
APPROVED

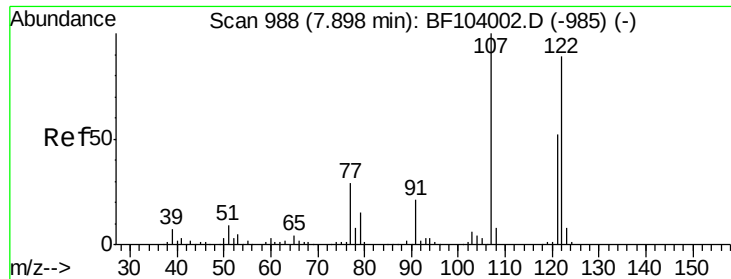
Sohil
4/3/2018 2:27:15 PM



#23
Nitrobenzene-d5
Concen: 178.472 ng
RT: 7.54 min Scan# 927
Delta R.T. 0.01 min
Lab File: BF104138.D
Acq: 2 Apr 2018 16:34

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
82	100				
128	47.3	36.1	54.1		
54	42.8	41.4	62.2		





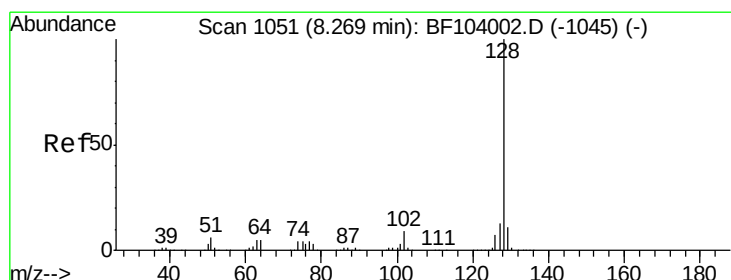
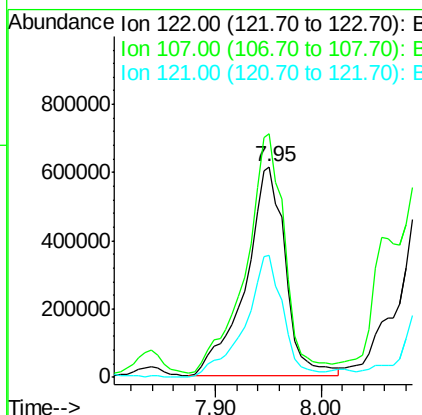
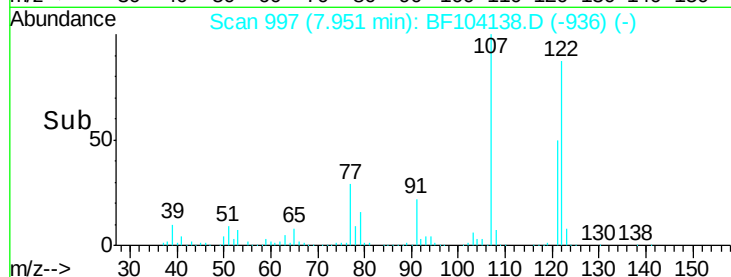
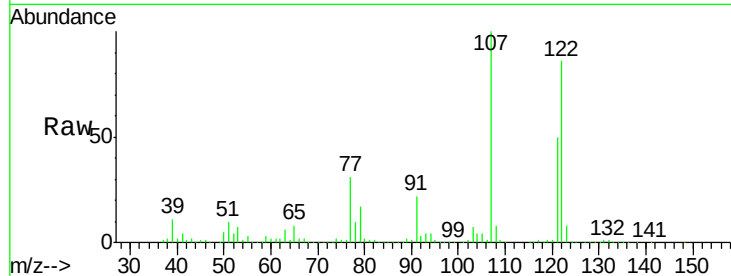
#27
2,4-Dimethylphenol
Concen: 671.521 ng
RT: 7.95 min Scan# 997
Delta R.T. 0.06 min
Lab File: BF104138.D
Acq: 2 Apr 2018 16:34

Instrument :
BNA_F
ClientSampleId :
QNWP8-MW26S-GW

Tot Ion:122 Resp: 1611645
Ion Ratio Lower Upper
122 100
107 115.8 91.2 136.8
121 58.1 47.2 70.8

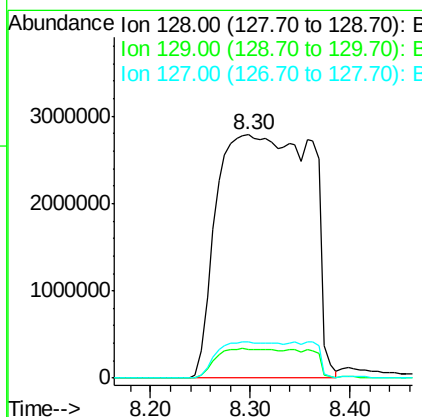
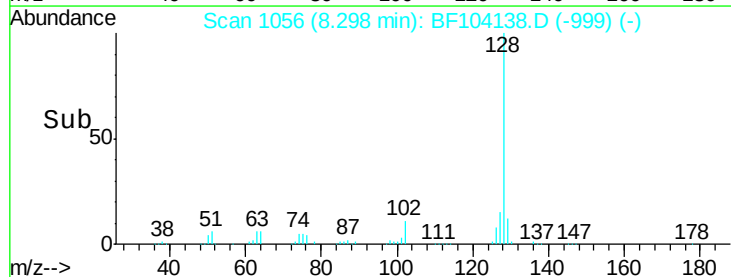
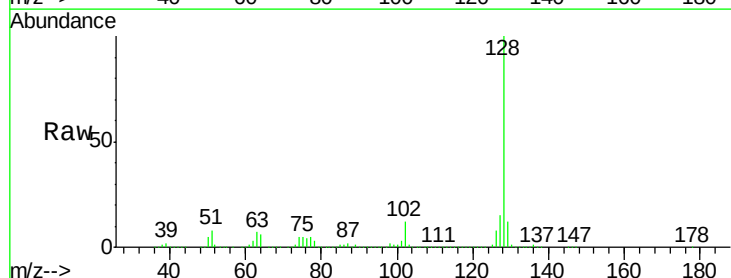
Manual Integrations
APPROVED

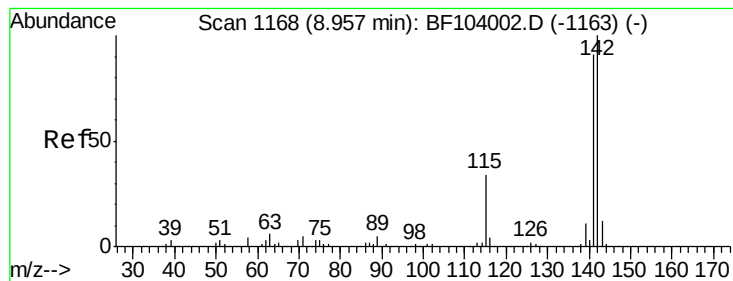
Sohil
4/3/2018 2:27:15 PM



#31
Naphthalene
Concen: 2003.270 ng m
RT: 8.30 min Scan# 1056
Delta R.T. 0.04 min
Lab File: BF104138.D
Acq: 2 Apr 2018 16:34

Tgt Ion:128 Resp:18134492
Ion Ratio Lower Upper
128 100
129 12.0 8.8 13.2
127 14.7 10.9 16.3





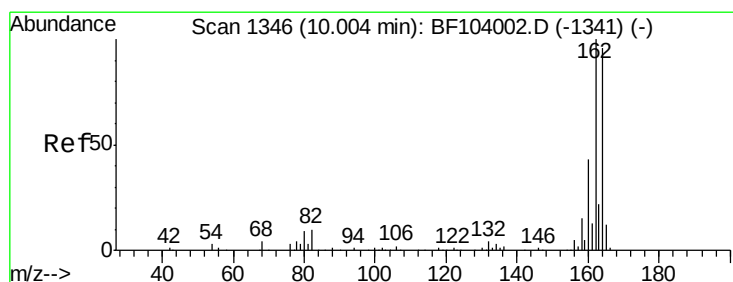
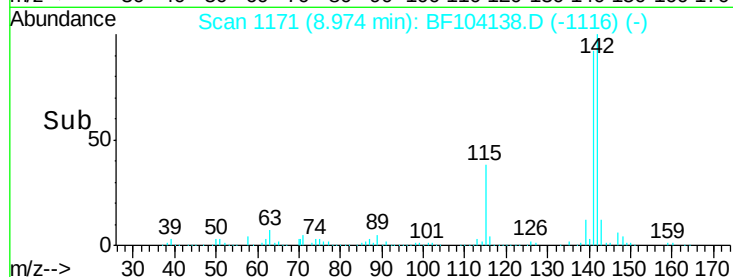
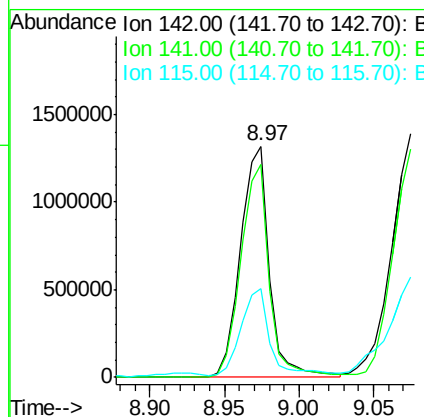
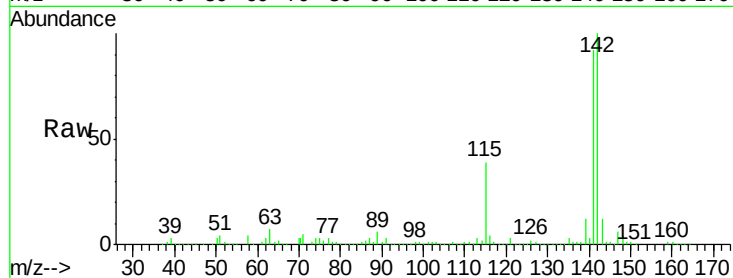
#37
2-Methylnaphthalene
Concen: 298.462 ng
RT: 8.97 min Scan# 1171
Delta R.T. 0.02 min
Lab File: BF104138.D
Acq: 2 Apr 2018 16:34

Instrument :
BNA_F
ClientSampleId :
QNWP8-MW26S-GW

Tot Ion:142 Resp: 1779696
Ion Ratio Lower Upper
142 100
141 92.0 70.8 106.2
115 38.6 26.1 39.1

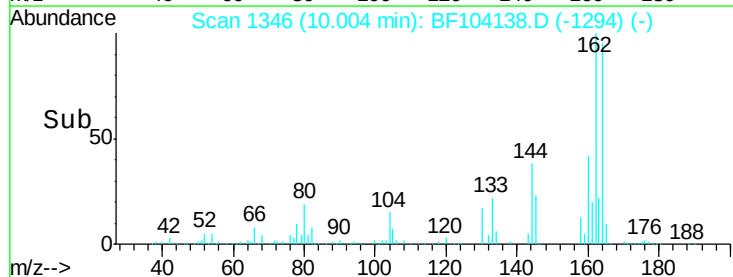
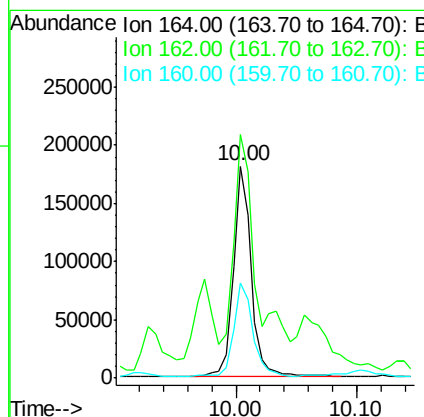
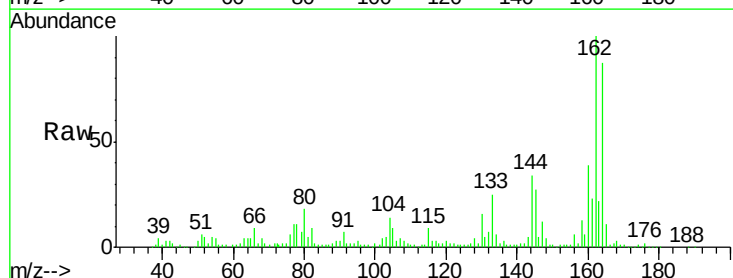
Manual Integrations
APPROVED

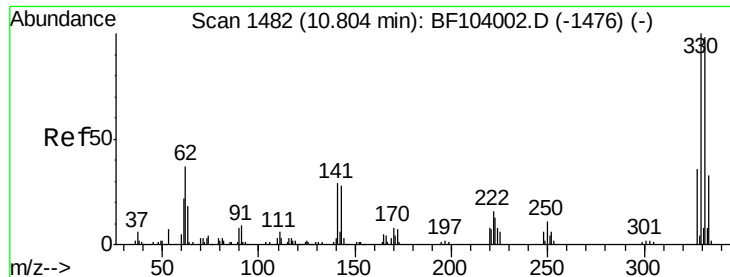
Sohil
4/3/2018 2:27:15 PM



#38
Acenaphthene-d10
Concen: 20.000 ng
RT: 10.00 min Scan# 1346
Delta R.T. 0.01 min
Lab File: BF104138.D
Acq: 2 Apr 2018 16:34

Tgt Ion:164 Resp: 187102
Ion Ratio Lower Upper
164 100
162 115.0 86.1 129.1
160 45.2 38.3 57.5





#41

2,4,6-Tribromophenol

Concen: 95.741 ng

RT: 10.81 min Scan# 1483

Delta R.T. 0.01 min

Lab File: BF104138.D

Acq: 2 Apr 2018 16:34

Instrument :

BNA_F

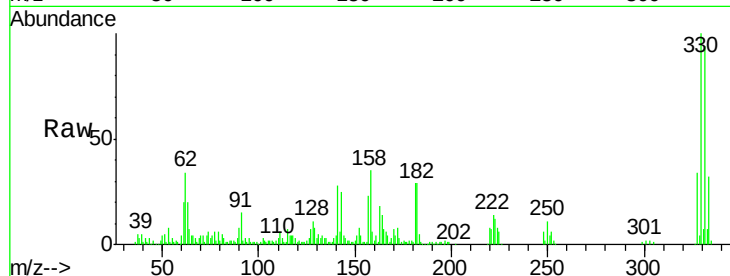
ClientSampleId :

QNWP8-MW26S-GW

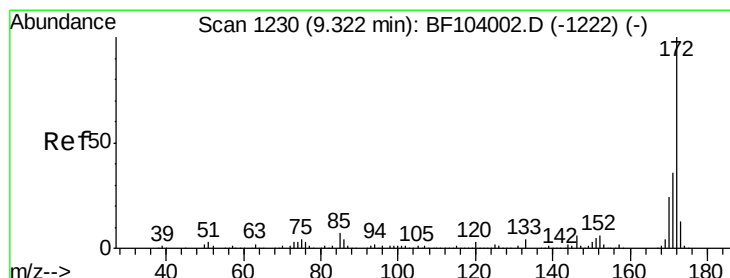
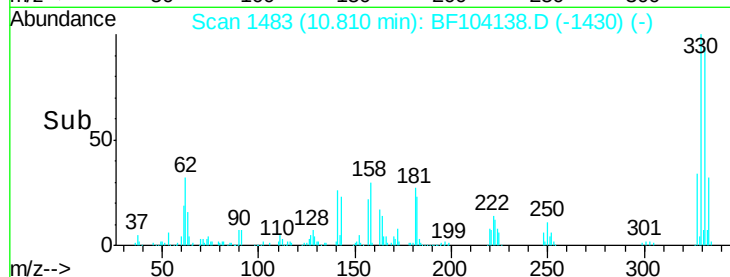
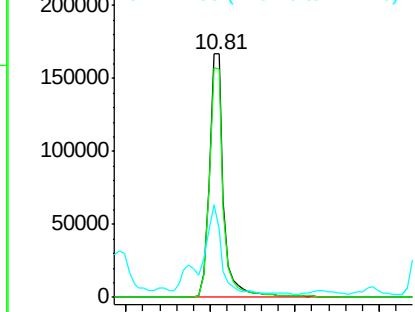
Tot Ion:	330	Resp:	199465
Ion Ratio	Lower	Upper	
330	100		
332	93.5	77.0	115.6
141	38.1	29.9	44.9

Manual Integrations
APPROVED

Sohil
4/3/2018 2:27:15 PM



Abundance Ion 329.80 (329.50 to 330.50): E
Ion 331.80 (331.50 to 332.50): E
Ion 141.00 (140.70 to 141.70): E



#44

2-Fluorobiphenyl

Concen: 83.168 ng

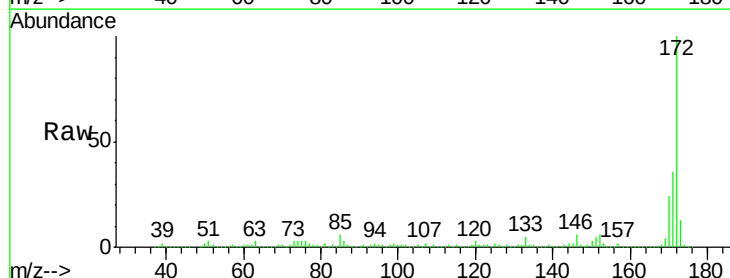
RT: 9.32 min Scan# 1230

Delta R.T. 0.01 min

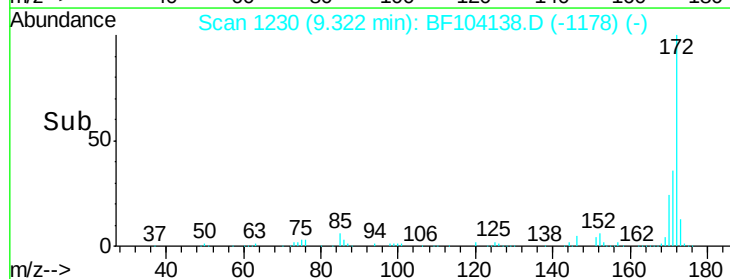
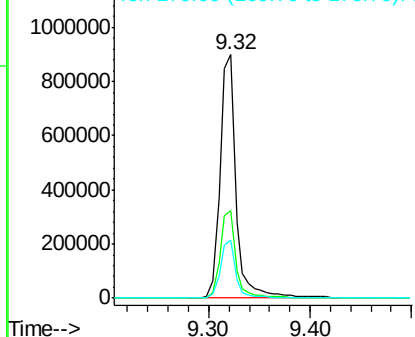
Lab File: BF104138.D

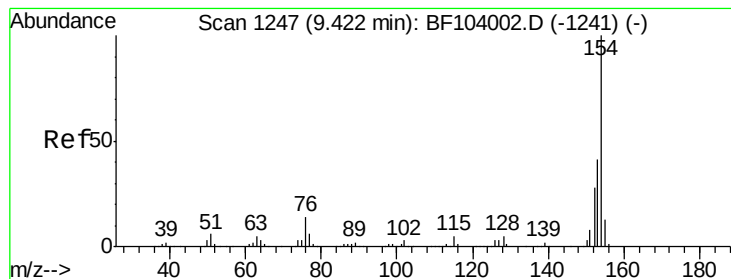
Acq: 2 Apr 2018 16:34

Tgt Ion:	172	Resp:	986797
Ion Ratio	Lower	Upper	
172	100		
171	36.0	29.7	44.5
170	23.8	19.6	29.4



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





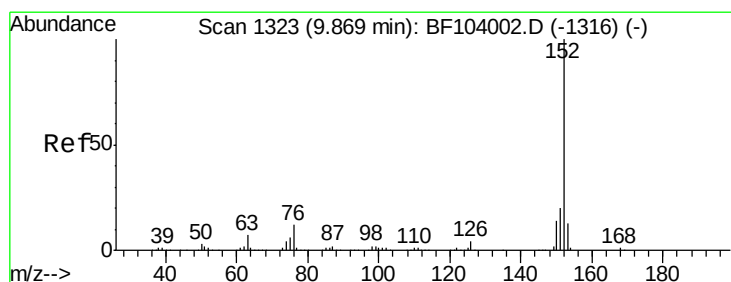
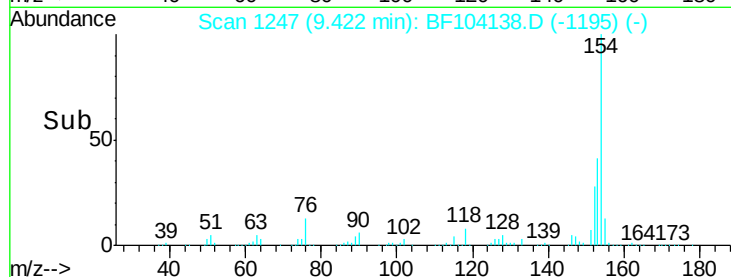
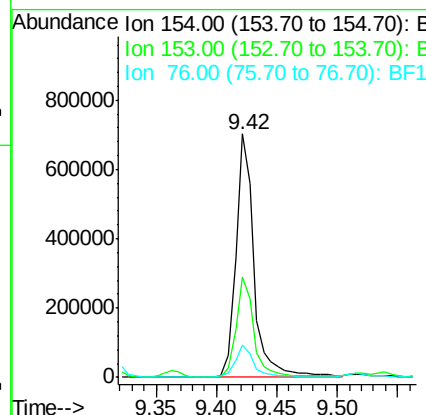
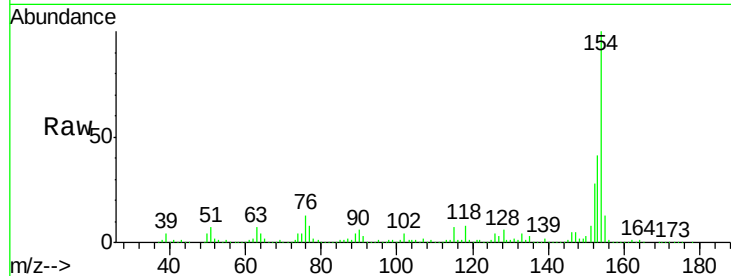
#45
 1,1'-Biphenyl
 Concen: 45.649 ng
 RT: 9.42 min Scan# 1247
 Delta R.T. 0.01 min
 Lab File: BF104138.D
 Acq: 2 Apr 2018 16:34

Instrument :
 BNA_F
 ClientSampleId :
 QNWP8-MW26S-GW

Tot Ion:	154	Resp:	733055
Ion Ratio	Lower	Upper	
154	100		
153	41.1	21.3	61.3
76	13.4	0.0	34.0

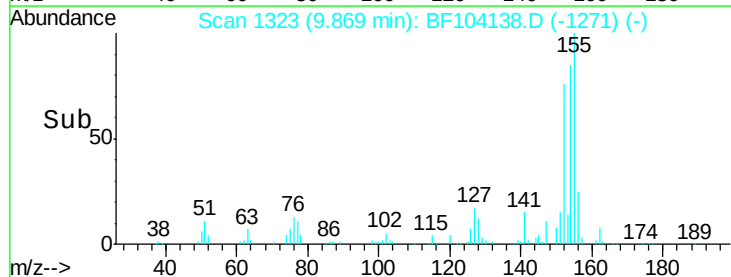
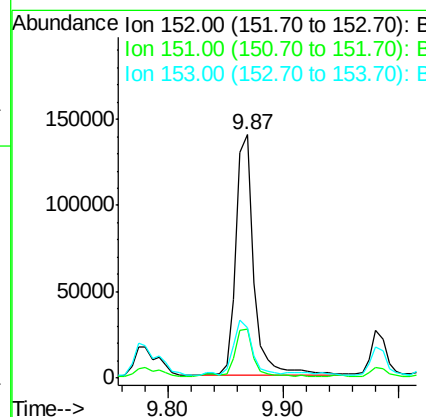
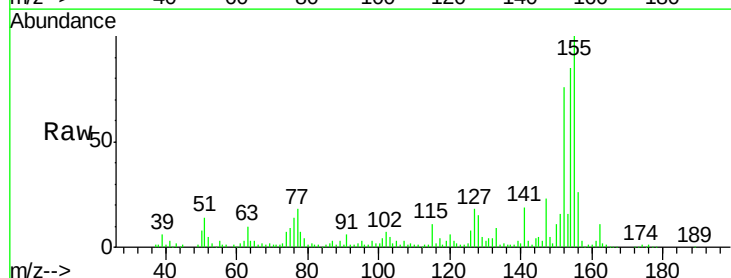
Manual Integrations
 APPROVED

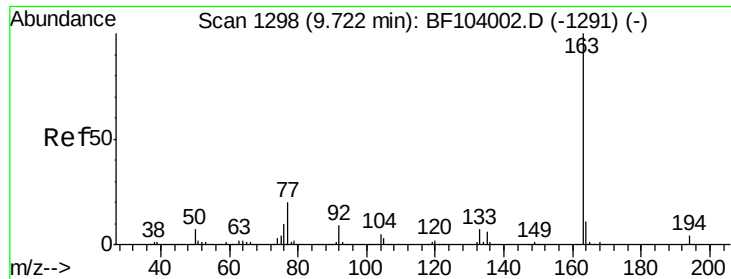
Sohil
 4/3/2018 2:27:15 PM



#48
 Acenaphthylene
 Concen: 7.978 ng
 RT: 9.87 min Scan# 1323
 Delta R.T. 0.01 min
 Lab File: BF104138.D
 Acq: 2 Apr 2018 16:34

Tgt Ion:	152	Resp:	153097
Ion Ratio	Lower	Upper	
152	100		
151	20.4	16.3	24.5
153	20.9	10.7	16.1#





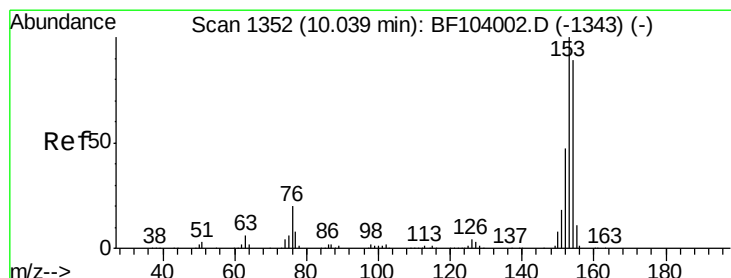
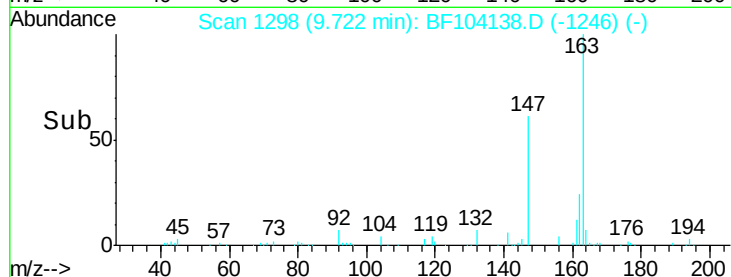
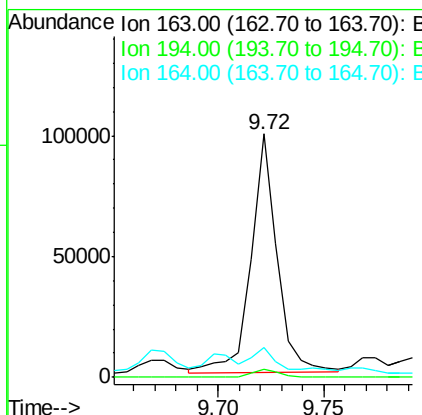
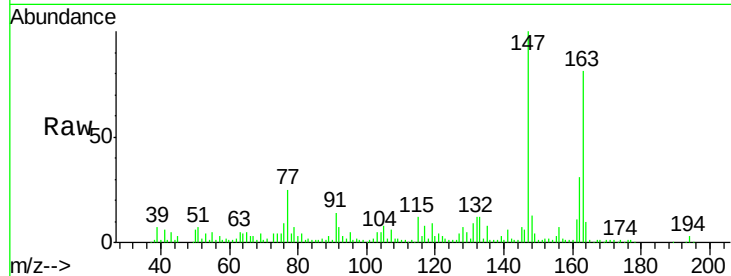
#49
 Dimethylphthalate
 Concen: 5.759 ng
 RT: 9.72 min Scan# 1298
 Delta R.T. 0.01 min
 Lab File: BF104138.D
 Acq: 2 Apr 2018 16:34

Instrument :
 BNA_F
 ClientSampleId :
 QNWP8-MW26S-GW

Tot Ion:	163	Resp:	85079
Ion Ratio	Lower	Upper	
163	100		
194	3.3	2.7	4.1
164	12.1	8.2	12.2

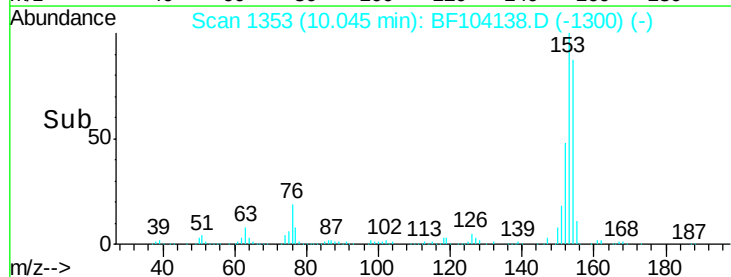
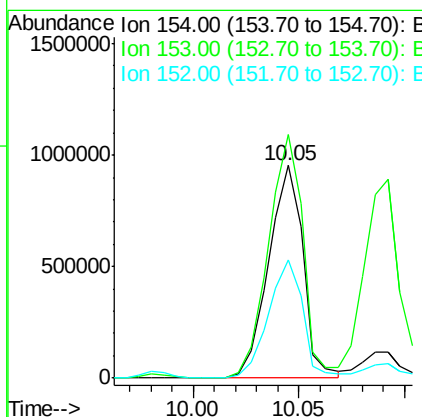
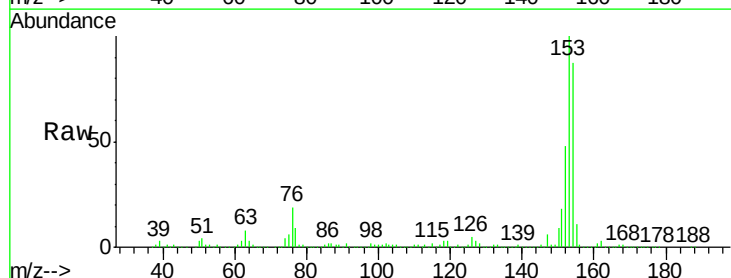
Manual Integrations
 APPROVED

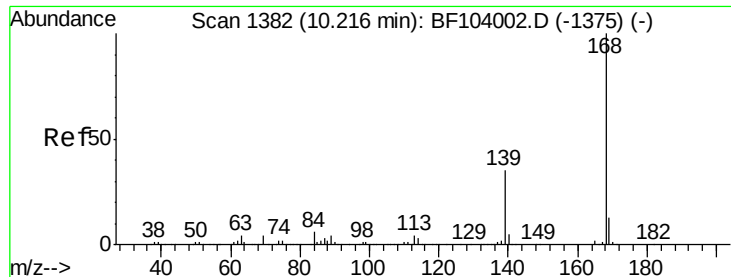
Sohil
 4/3/2018 2:27:15 PM



#51
 Acenaphthene
 Concen: 97.021 ng
 RT: 10.05 min Scan# 1353
 Delta R.T. 0.01 min
 Lab File: BF104138.D
 Acq: 2 Apr 2018 16:34

Tgt Ion:	154	Resp:	1077066
Ion Ratio	Lower	Upper	
154	100		
153	114.6	91.2	136.8
152	55.5	43.8	65.8





#54

Dibenzofuran

Concen: 84.284 ng

RT: 10.22 min Scan# 1383

Delta R.T. 0.01 min

Lab File: BF104138.D

Acq: 2 Apr 2018 16:34

Instrument :

BNA_F

ClientSampleId :

QNWP8-MW26S-GW

Tot Ion:168 Resp: 1366353

Ion Ratio Lower Upper

168 100

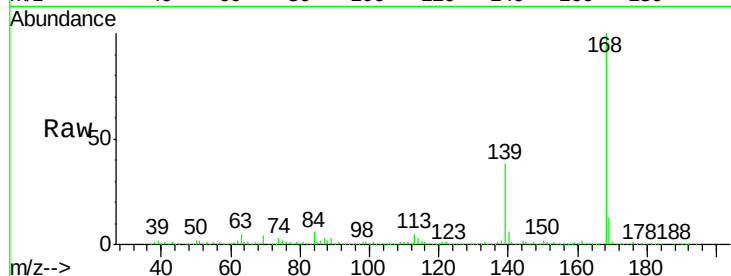
139 38.4 30.1 45.1

169 13.3 10.9 16.3

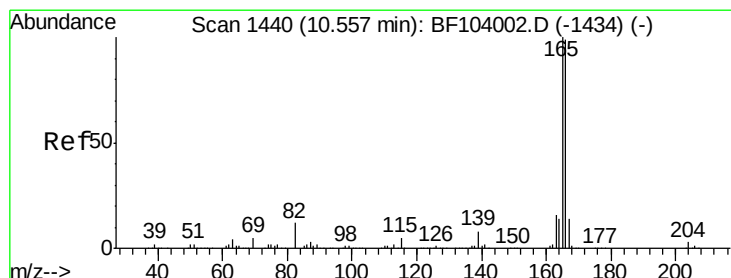
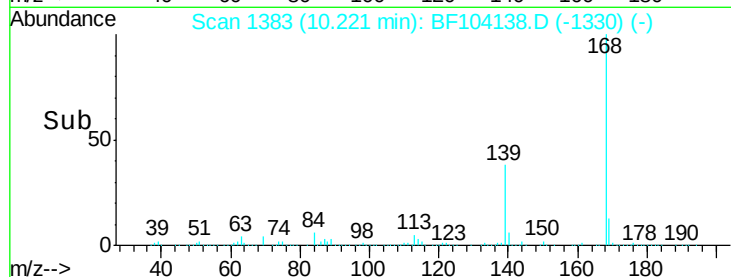
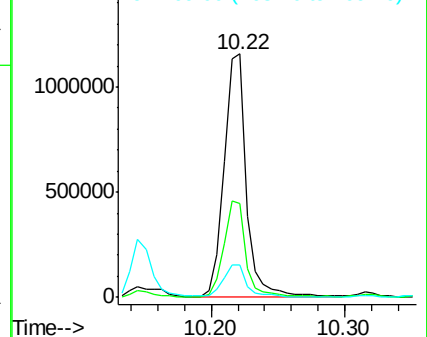
Manual Integrations
APPROVED

Sohil

4/3/2018 2:27:15 PM



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



#57

Fluorene

Concen: 59.573 ng

RT: 10.56 min Scan# 1440

Delta R.T. 0.01 min

Lab File: BF104138.D

Acq: 2 Apr 2018 16:34

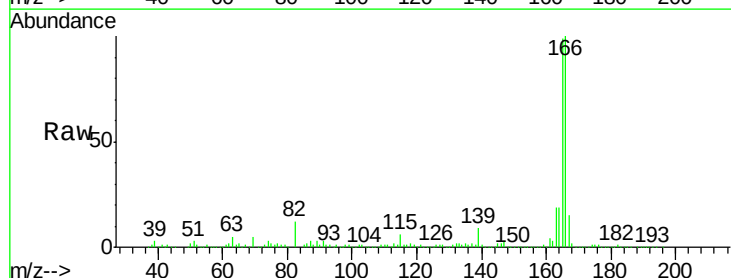
Tgt Ion:166 Resp: 796640

Ion Ratio Lower Upper

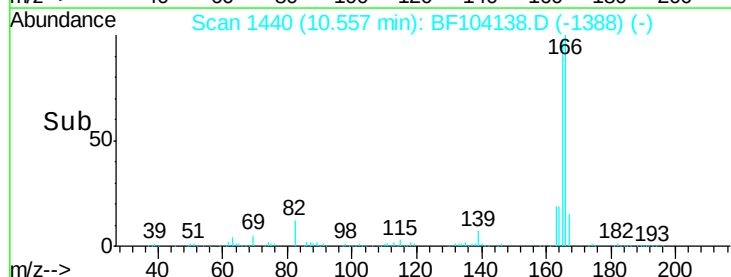
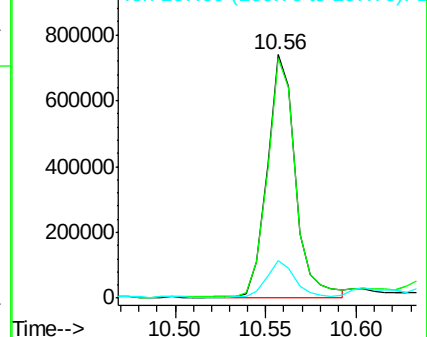
166 100

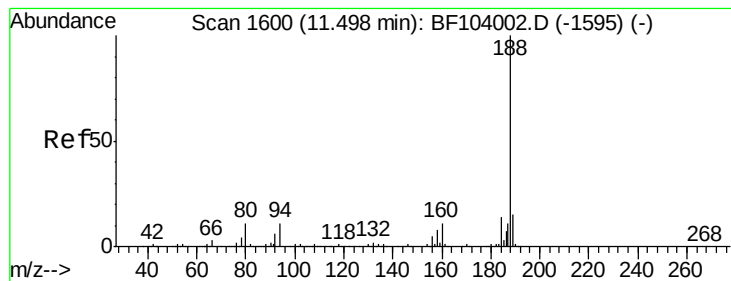
165 98.5 79.8 119.8

167 15.3 10.6 16.0



Abundance Ion 166.00 (165.70 to 166.70): E
Ion 165.00 (164.70 to 165.70): E
Ion 167.00 (166.70 to 167.70): E





#63

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.50 min Scan# 1601

Delta R.T. 0.01 min

Lab File: BF104138.D

Acq: 2 Apr 2018 16:34

Instrument :

BNA_F

ClientSampleId :

QNWP8-MW26S-GW

Tot Ion:188 Resp: 254501

Ion Ratio Lower Upper

188 100

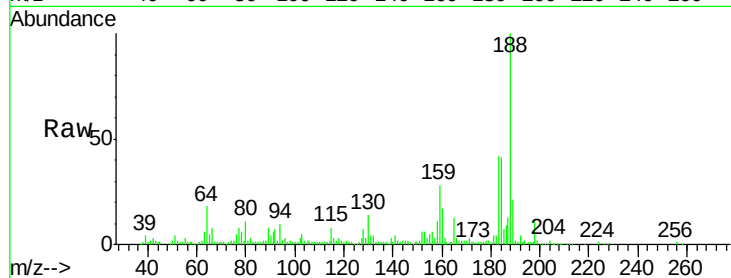
94 9.7 8.5 12.7

80 10.7 9.2 13.8

Manual Integrations
APPROVED

Sohil

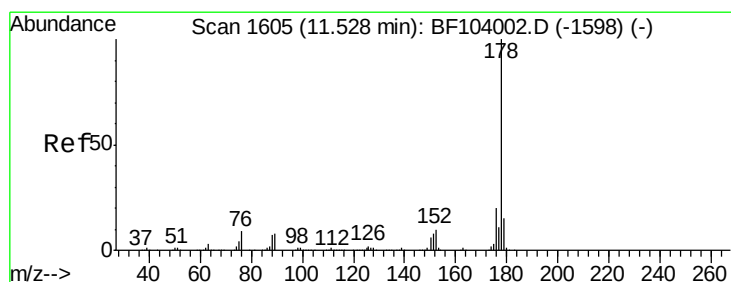
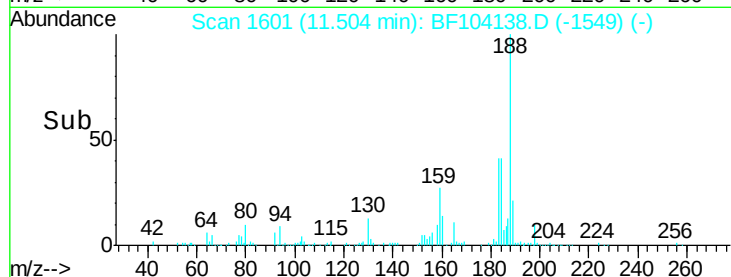
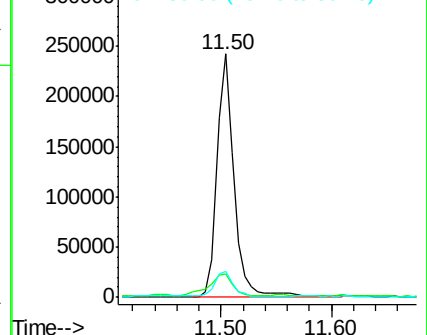
4/3/2018 2:27:15 PM



Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF1

Ion 80.00 (79.70 to 80.70): BF1



#70

Phenanthrene

Concen: 77.442 ng

RT: 11.53 min Scan# 1606

Delta R.T. 0.01 min

Lab File: BF104138.D

Acq: 2 Apr 2018 16:34

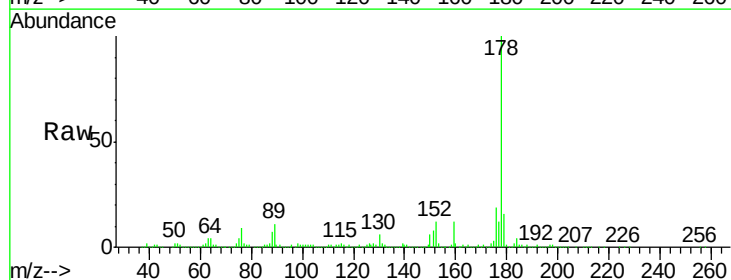
Tgt Ion:178 Resp: 1067069

Ion Ratio Lower Upper

178 100

176 19.3 15.8 23.8

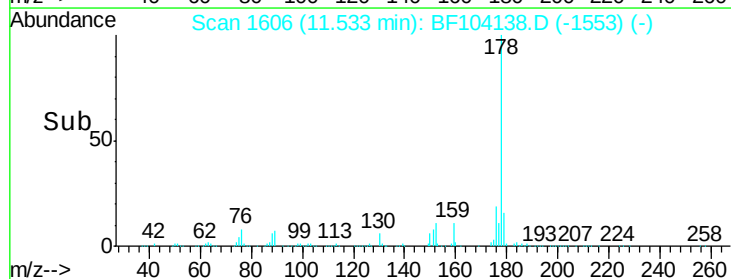
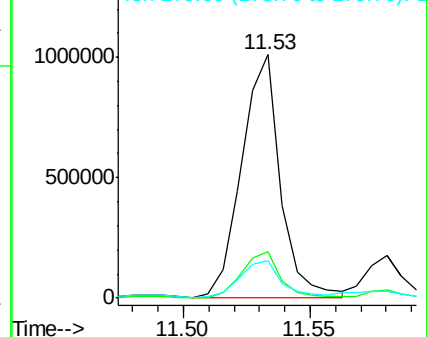
179 15.7 13.0 19.6

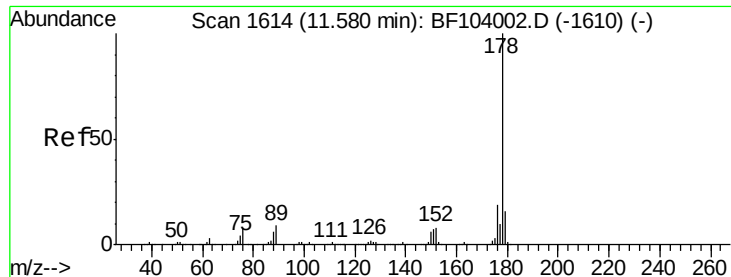


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





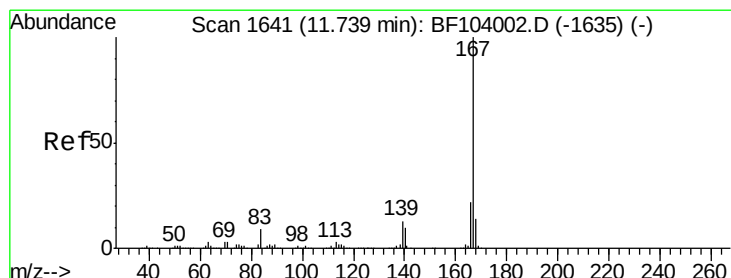
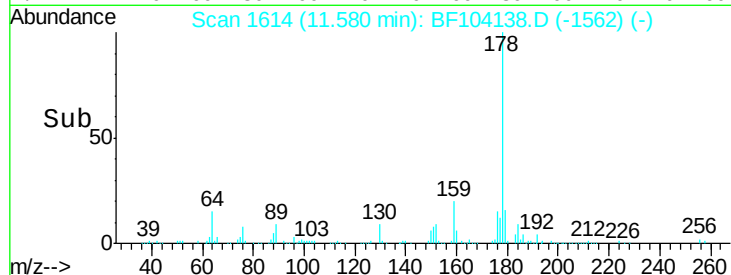
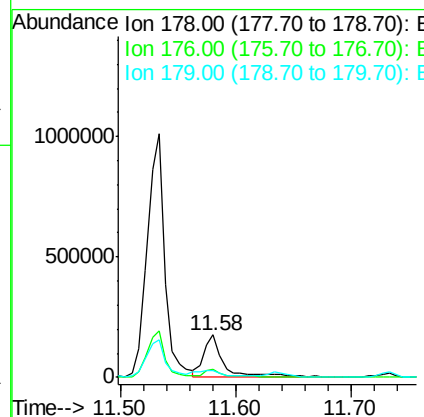
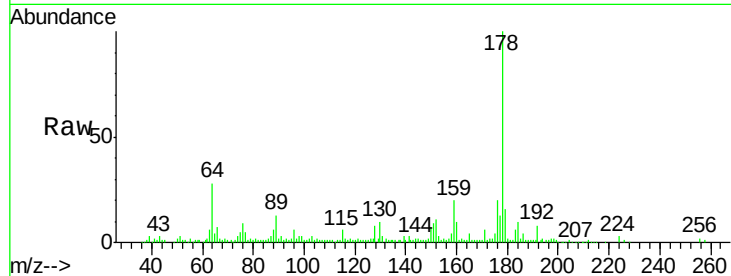
#71
 Anthracene
 Concen: 13.846 ng
 RT: 11.58 min Scan# 1614
 Delta R.T. 0.01 min
 Lab File: BF104138.D
 Acq: 2 Apr 2018 16:34

Instrument :
 BNA_F
 ClientSampleId :
 QNWP8-MW26S-GW

Tot Ion	Ratio	Lower	Upper
178	100		
176	20.1	15.4	23.2
179	16.5	12.6	19.0

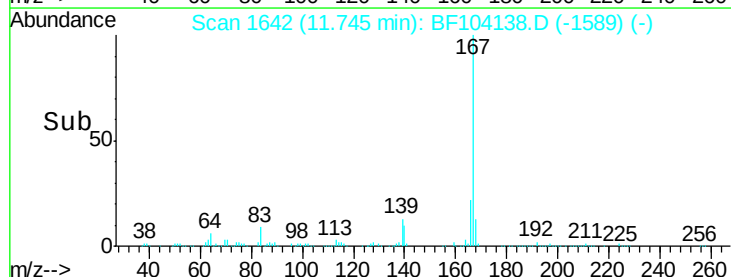
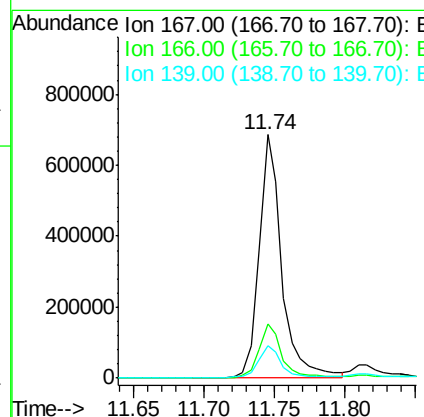
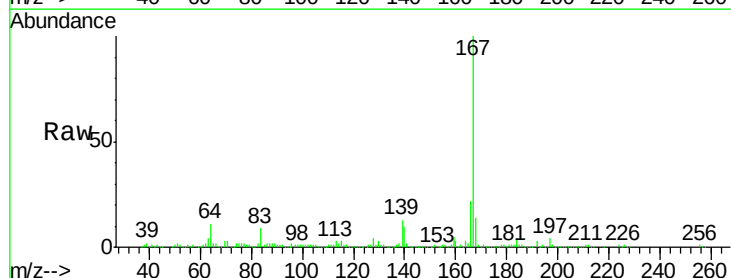
Manual Integrations
 APPROVED

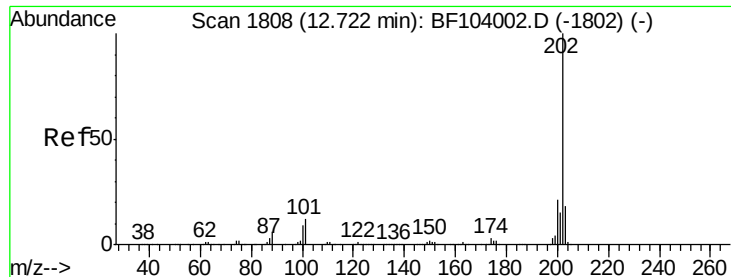
Sohil
 4/3/2018 2:27:15 PM



#72
 Carbazole
 Concen: 55.967 ng
 RT: 11.74 min Scan# 1642
 Delta R.T. 0.01 min
 Lab File: BF104138.D
 Acq: 2 Apr 2018 16:34

Tgt Ion	Ratio	Lower	Upper
167	100		
166	22.3	17.6	26.4
139	13.4	10.9	16.3





#74

Fluoranthene

Concen: 7.626 ng

RT: 12.73 min Scan# 1810

Delta R.T. 0.02 min

Lab File: BF104138.D

Acq: 2 Apr 2018 16:34

Instrument :

BNA_F

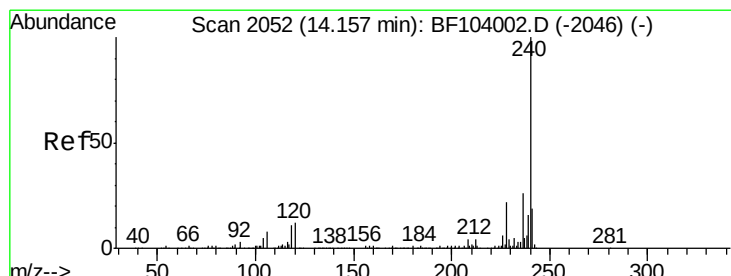
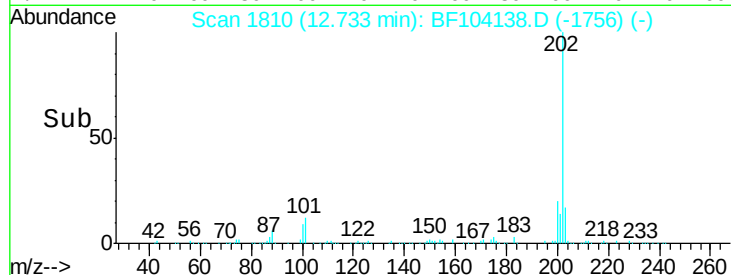
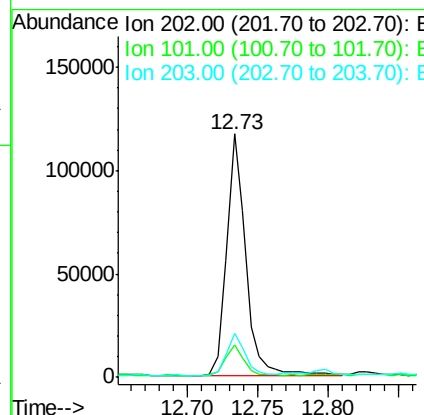
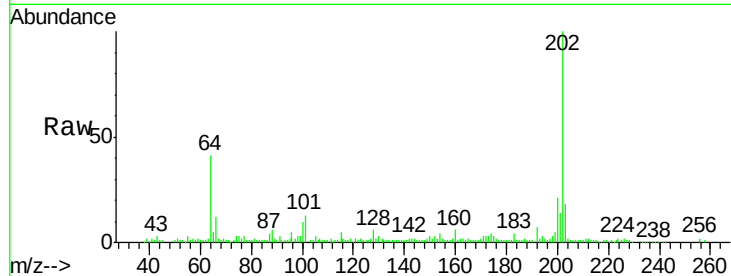
ClientSampleId :

QNWP8-MW26S-GW

Tot Ion	Ion	Ratio	Resp	Lower	Upper
202	100				
101	13.1	0.0	34.1		
203	17.8	0.0	38.1		

Manual Integrations
APPROVED

Sohil
4/3/2018 2:27:15 PM



#75

Chrysene-d12

Concen: 20.000 ng

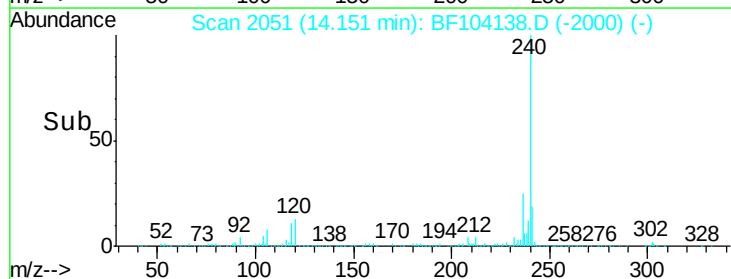
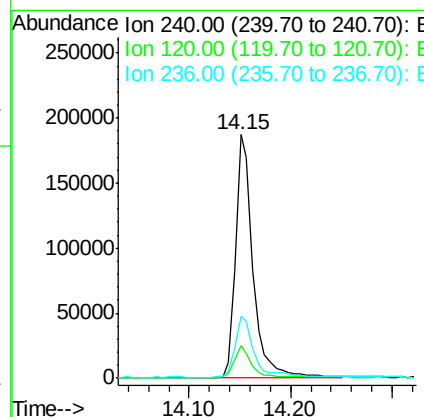
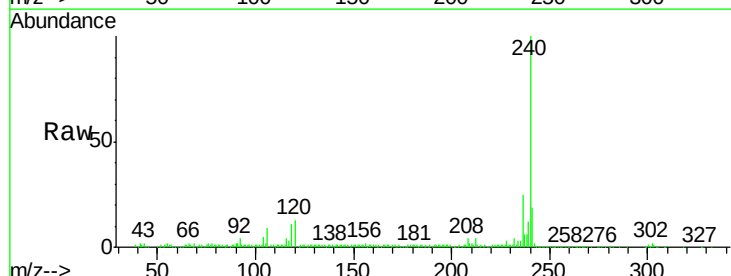
RT: 14.15 min Scan# 2051

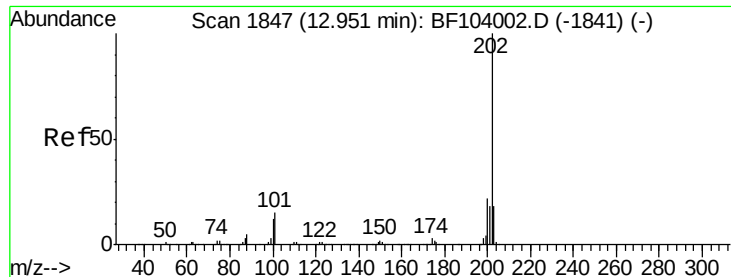
Delta R.T. -0.00 min

Lab File: BF104138.D

Acq: 2 Apr 2018 16:34

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
240	100				
120	13.2	9.5	14.3		
236	25.4	20.7	31.1		





#77

Pvrene

Concen: 4.446 ng

RT: 12.96 min Scan# 1848

Delta R.T. 0.01 min

Lab File: BF104138.D

Acq: 2 Apr 2018 16:34

Instrument :

BNA_F

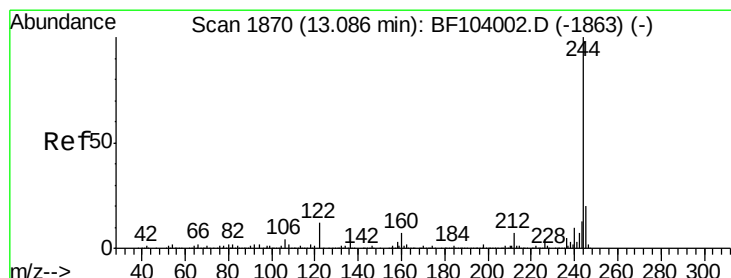
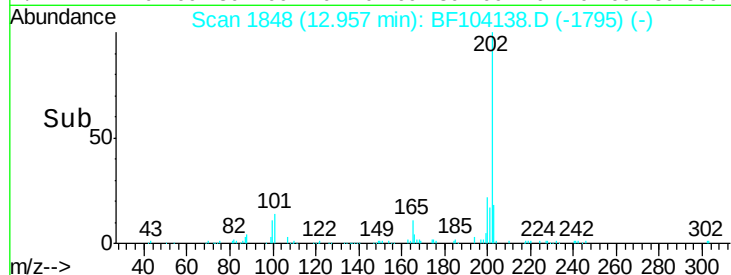
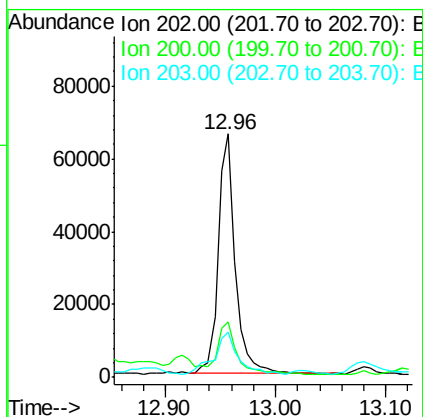
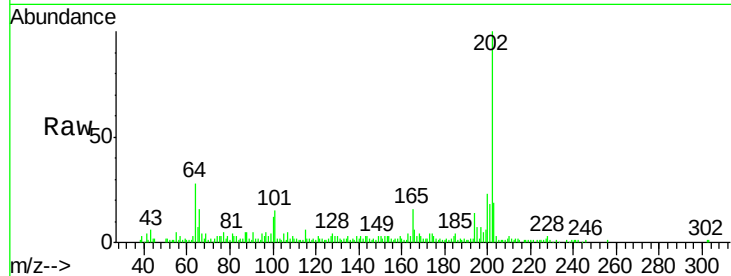
ClientSampleId :

QNWP8-MW26S-GW

Tot Ion:	202	Resp:	70791
Ion Ratio	Lower	Upper	
202	100		
200	22.9	17.4	26.2
203	18.7	14.3	21.5

Manual Integrations
APPROVED

Sohil
4/3/2018 2:27:15 PM



#78

Terphenyl-d14

Concen: 58.152 ng

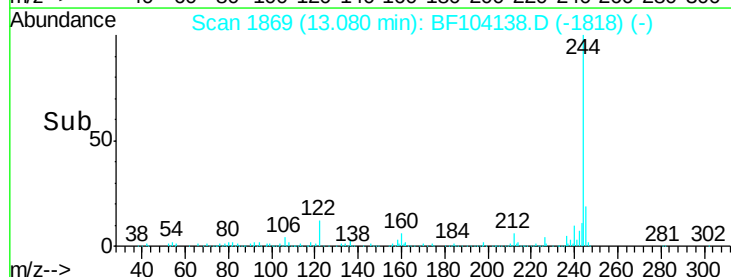
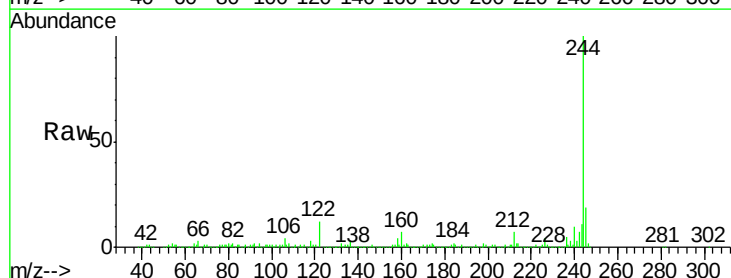
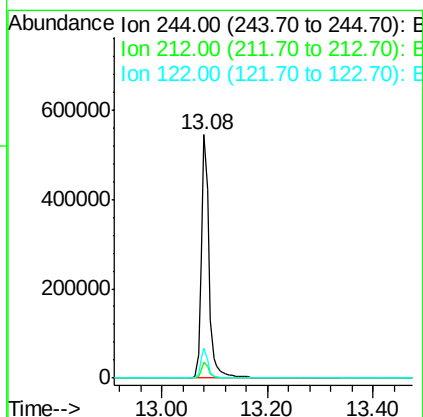
RT: 13.08 min Scan# 1869

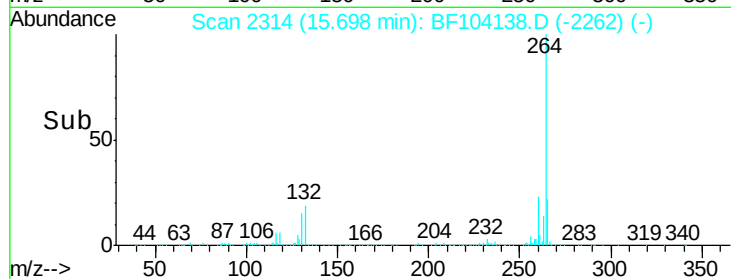
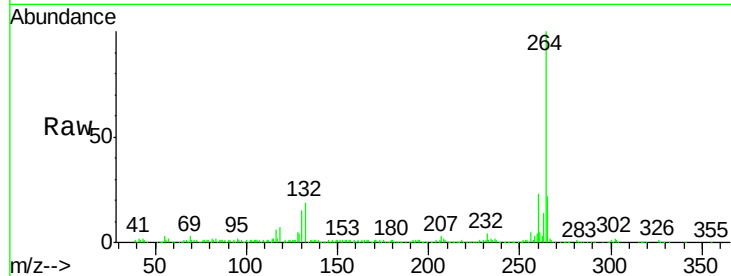
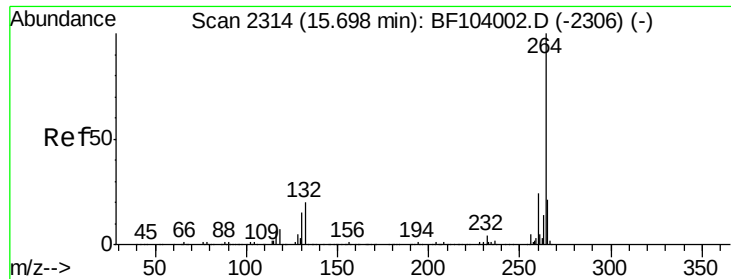
Delta R.T. -0.00 min

Lab File: BF104138.D

Acq: 2 Apr 2018 16:34

Tgt Ion:	244	Resp:	557799
Ion Ratio	Lower	Upper	
244	100		
212	6.7	5.4	8.0
122	12.5	11.0	16.4





#86
Pervlene-d12
Concen: 20.000 ng
RT: 15.70 min Scan# 2314
Delta R.T. 0.01 min
Lab File: BF104138.D
Acq: 2 Apr 2018 16:34

Instrument :
BNA_F
ClientSampleId :
QNWP8-MW26S-GW

Tot Ion	Ratio	Resp Lower	Upper
264	100		
260	23.5	19.2	28.8
265	22.4	17.5	26.3

Manual Integrations
APPROVED

Sohil
4/3/2018 2:27:15 PM

