

Data Path : Z:\HPCHEM1\BNA F\DATA\BF092217\
 Data File : BF098721.D
 Acq On : 23 Sep 2017 2:56
 Operator : SJ/JU
 Sample : I5308-05
 Misc :
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 220-1-(O-U)-COMP

Manual Integrations
 APPROVED

Sohil
 9/25/2017 6:21:24 PM

Quant Time: Sep 23 05:16:42 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF092117.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Sep 22 10:38:37 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.93	152	153202	20.00	ng	0.00
21) Naphthalene-d8	8.21	136	625404	20.00	ng	0.00
38) Acenaphthene-d10	9.96	164	258103	20.00	ng	0.00
63) Phenanthrene-d10	11.45	188	377262	20.00	ng	0.00
75) Chrysene-d12	14.09	240	321745	20.00	ng	0.00
86) Perylene-d12	15.59	264	273948	20.00	ng	0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.55	112	723185	71.68	ng	0.00
7) Phenol-d6	6.55	99	906025	74.16	ng	0.00
23) Nitrobenzene-d5	7.49	82	507916	55.09	ng	0.00
41) 2,4,6-Tribromophenol	10.75	330	159196	67.44	ng	0.00
44) 2-Fluorobiphenyl	9.28	172	755066	46.55	ng	0.00
78) Terphenyl-d14	13.03	244	565707	37.75	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	8.23	128	329246	11.092	ng	100
37) 2-Methylnaphthalene	8.92	142	73656	3.865	ng	99
49) Dimethylphthalate	9.67	163	87917	4.542	ng	97
51) Acenaphthene	10.00	154	158721	9.998	ng	98
54) Dibenzofuran	10.17	168	118554	5.469	ng	98
57) Fluorene	10.51	166	151750	8.710	ng	99
70) Phenanthrene	11.48	178	992534	48.498	ng	99
71) Anthracene	11.53	178	277543	13.300	ng	99
72) Carbazole	11.67	167	92523	4.538	ng	99
74) Fluoranthene	12.67	202	915303	44.878	ng	99
77) Pyrene	12.90	202	802750	33.606	ng	99
80) Benzo(a)anthracene	14.08	228	424238	21.890	ng	99
82) Chrysene	14.12	228	352620	18.841	ng	97
85) Indeno(1,2,3-cd)pyrene	17.09	276	113981	7.851	ng	95
87) Benzo(b)fluoranthene	15.14	252	359299m	22.615	ng	
88) Benzo(k)fluoranthene	15.17	252	136429m	8.593	ng	
89) Benzo(a)pyrene	15.52	252	258519	17.917	ng	97
90) Dibenzo(a,h)anthracene	17.10	278	30395m	2.491	ng	
91) Benzo(a,h,i)perylene	17.55	276	104787	8.543	ng	96

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

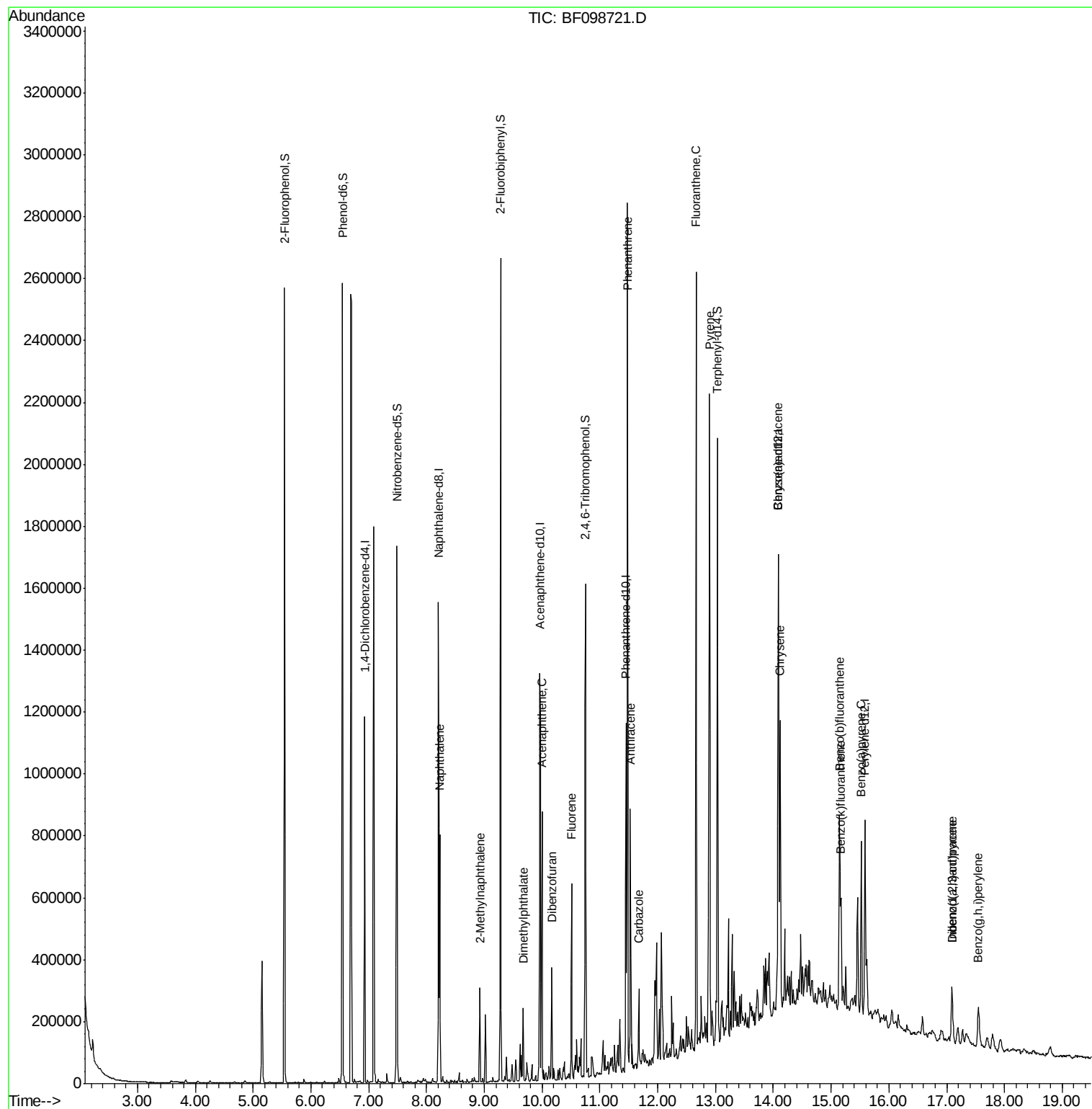
Data Path : Z:\HPCHEM1\BNA F\DATA\BF092217\
Data File : BF098721.D
Acq On : 23 Sep 2017 2:56
Operator : SJ/JU
Sample : I5308-05
Misc :
ALS Vial : 20 Sample Multiplier: 1

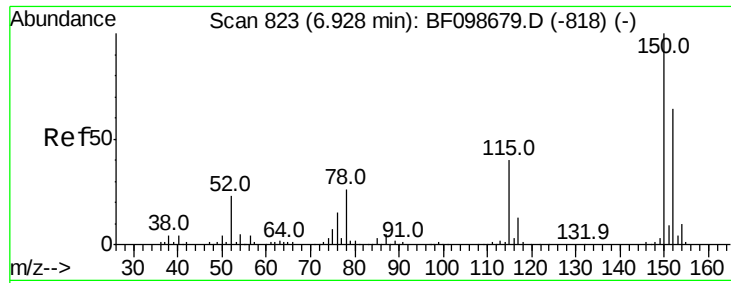
Instrument :
BNA_F
ClientSampleId :
220-1-(O-U)-COMP

Manual Integrations
APPROVED

Sohil
9/25/2017 6:21:24 PM

Quant Time: Sep 23 05:16:42 2017
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF092117.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Sep 22 10:38:37 2017
Response via : Initial Calibration





#1

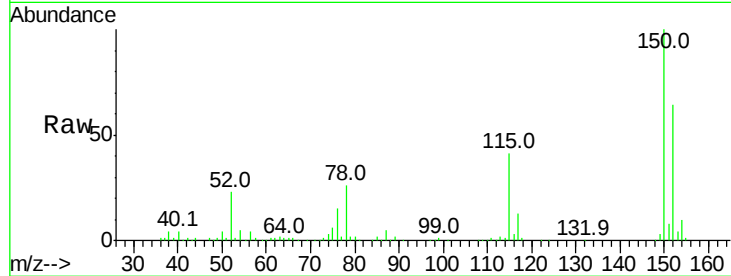
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.93 min Scan# 823
Delta R.T. -0.00 min
Lab File: BF098721.D
Acq: 23 Sep 2017 2:56

Instrument :
BNA_F
ClientSampleId :
220-1-(O-U)-COMP

Tot Ion	Ratio	Lower	Upper
152	100		
150	156.8	124.6	186.8
115	63.5	50.1	75.1

Manual Integrations
APPROVED

Sohil
9/25/2017 6:21:24 PM

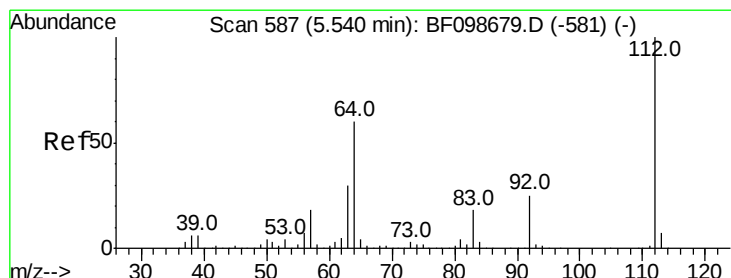
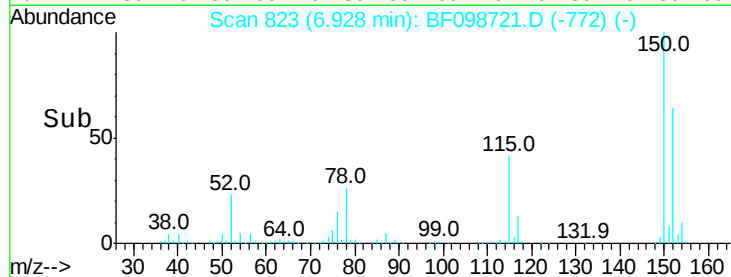
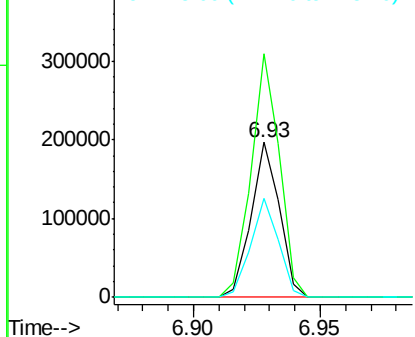


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

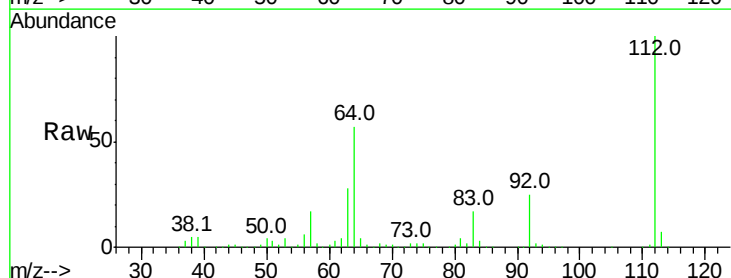
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol
Concen: 71.681 ng
RT: 5.55 min Scan# 588
Delta R.T. 0.01 min
Lab File: BF098721.D
Acq: 23 Sep 2017 2:56

Tgt Ion	Ratio	Lower	Upper
112	100		
64	57.0	47.9	71.9
63	27.8	23.7	35.5

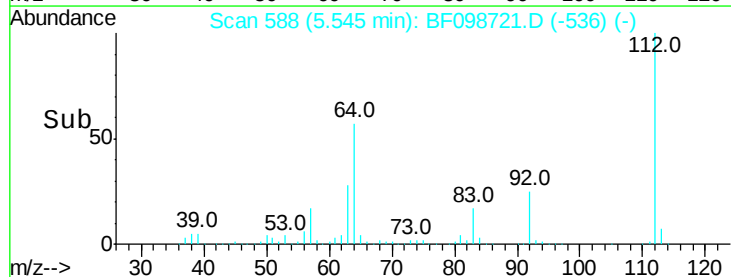
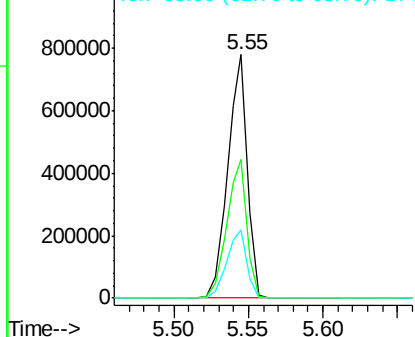


Abundance

Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 74.160 ng

RT: 6.55 min Scan# 758

Delta R.T. -0.00 min

Lab File: BF098721.D

Acq: 23 Sep 2017 2:56

Instrument :

BNA_F

ClientSampleId :

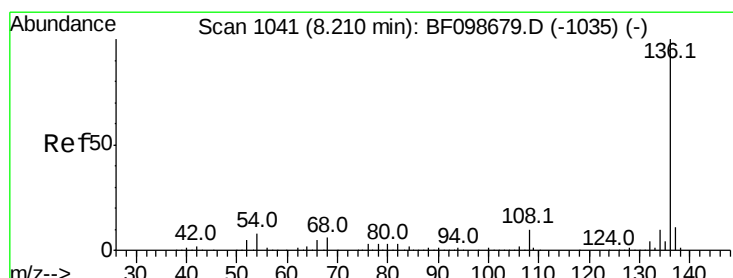
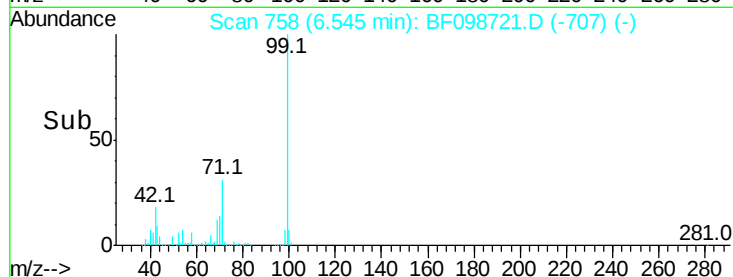
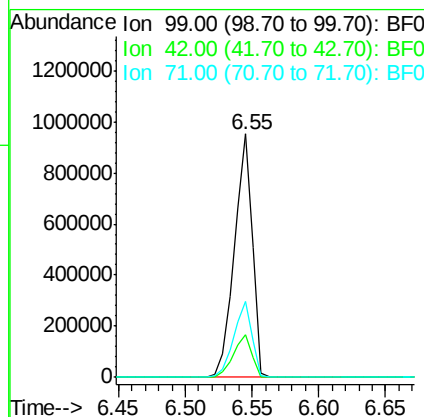
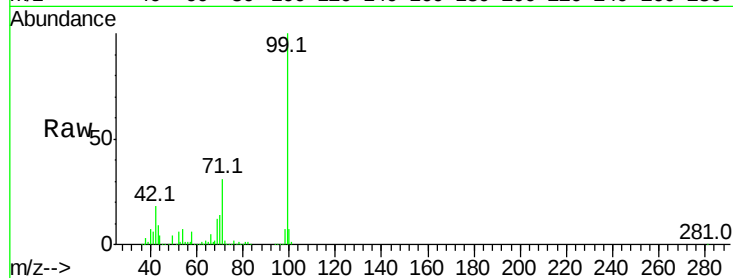
220-1-(O-U)-COMP

Tot Ion	Ion	Ratio	Resp	Lower	Upper
99	100		906025		
42	17.6	14.5	21.7		
71	31.0	25.4	38.0		

Manual Integrations
APPROVED

Sohil

9/25/2017 6:21:24 PM



#21

Naphthalene-d8

Concen: 20.000 ng

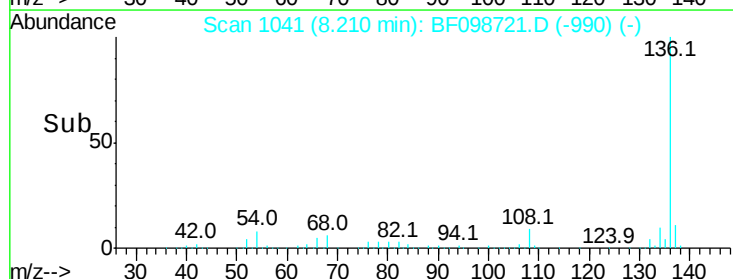
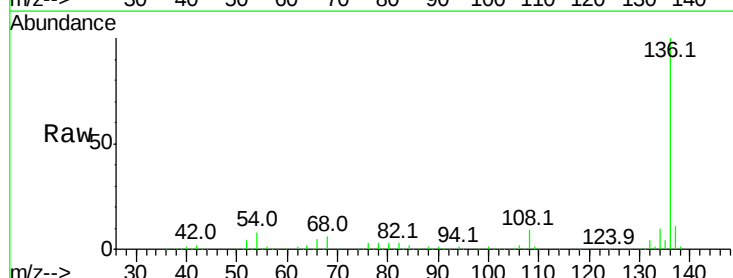
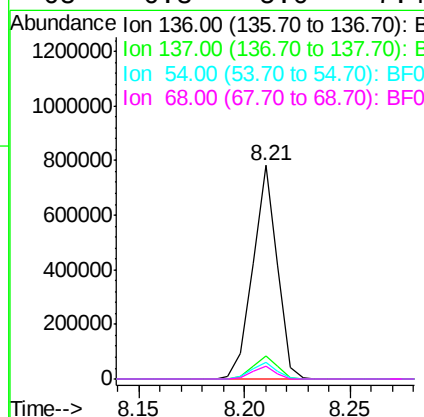
RT: 8.21 min Scan# 1041

Delta R.T. -0.00 min

Lab File: BF098721.D

Acq: 23 Sep 2017 2:56

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
136	100		625404		
137	10.9	8.9	13.3		
54	8.0	6.6	9.8		
68	6.3	5.0	7.4		





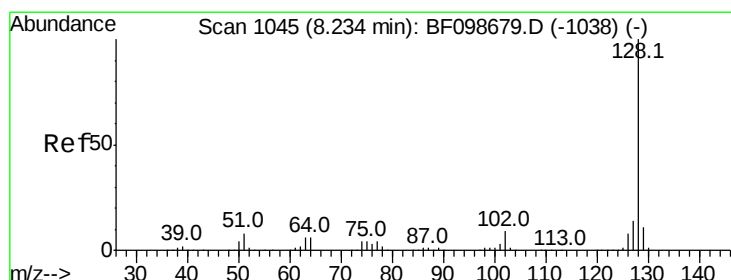
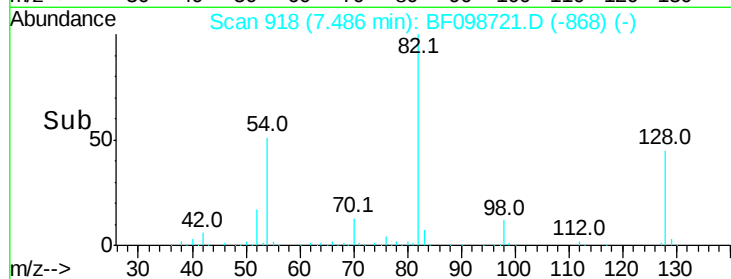
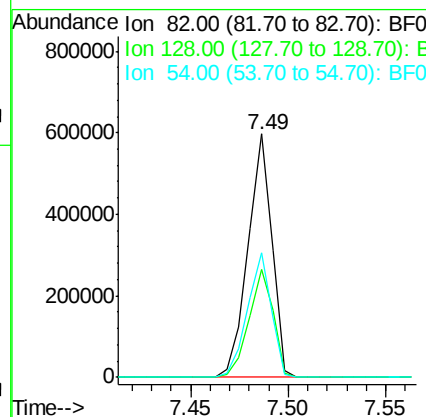
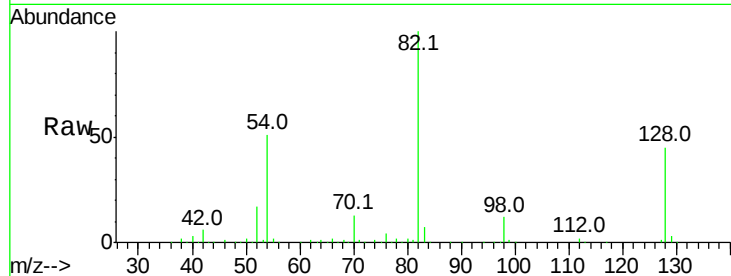
#23
Nitrobenzene-d5
Concen: 55.088 ng
RT: 7.49 min Scan# 918
Delta R.T. -0.01 min
Lab File: BF098721.D
Acq: 23 Sep 2017 2:56

Instrument :
BNA_F
ClientSampleId :
220-1-(O-U)-COMP

Tot Ion	Ratio	Resp	Lower	Upper
82	100			
128	44.6	36.1	54.1	
54	51.0	41.4	62.2	

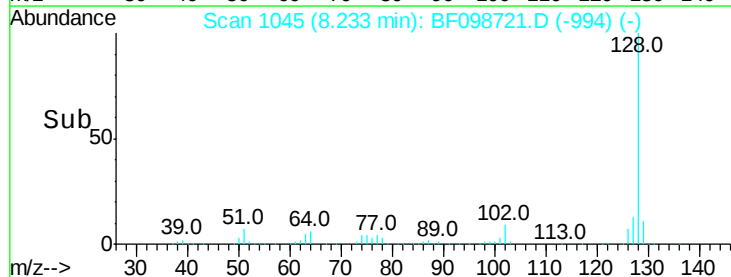
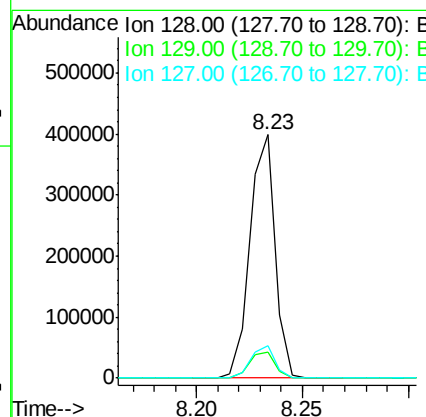
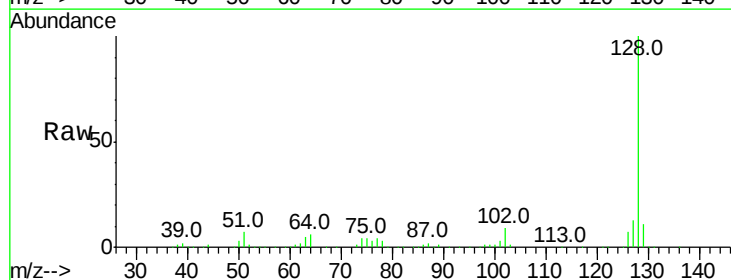
Manual Integrations
APPROVED

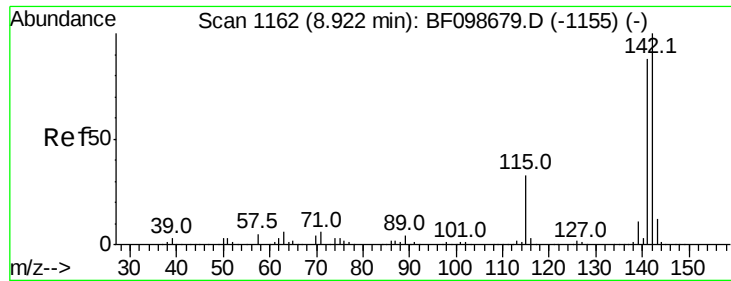
Sohil
9/25/2017 6:21:24 PM



#31
Naphthalene
Concen: 11.092 ng
RT: 8.23 min Scan# 1045
Delta R.T. -0.00 min
Lab File: BF098721.D
Acq: 23 Sep 2017 2:56

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





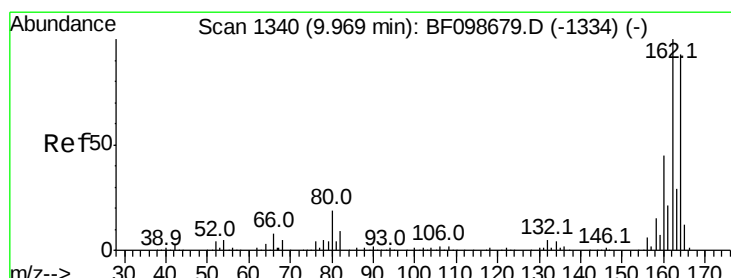
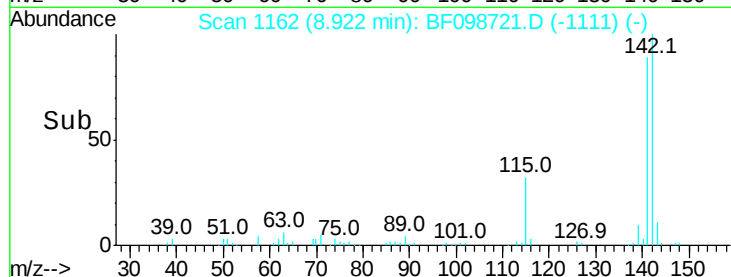
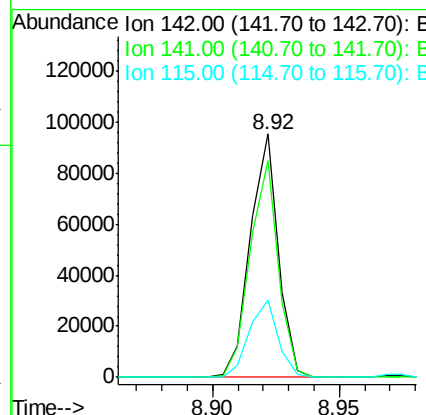
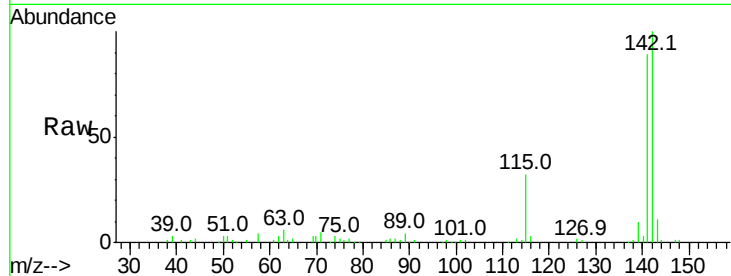
#37
 2-Methylnaphthalene
 Concen: 3.865 ng
 RT: 8.92 min Scan# 1162
 Delta R.T. -0.00 min
 Lab File: BF098721.D
 Acq: 23 Sep 2017 2:56

Instrument :
 BNA_F
 ClientSampleId :
 220-1-(O-U)-COMP

Tot Ion	Ratio	Lower	Upper
142	100		
141	88.9	70.8	106.2
115	31.9	26.1	39.1

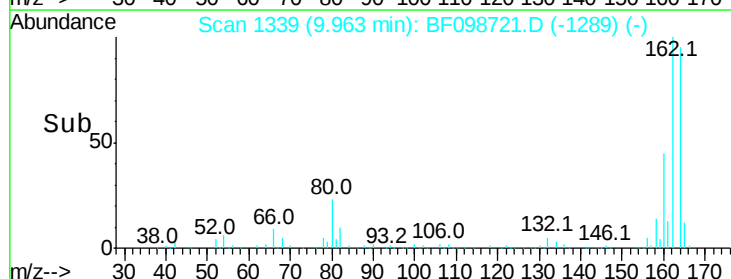
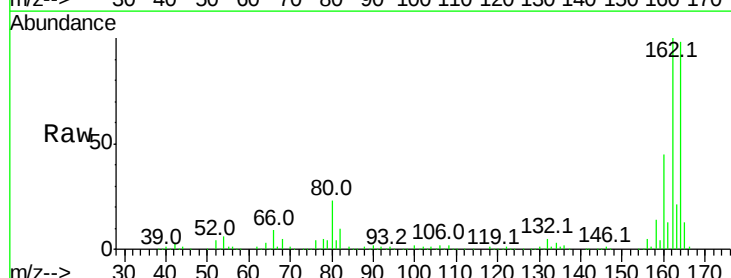
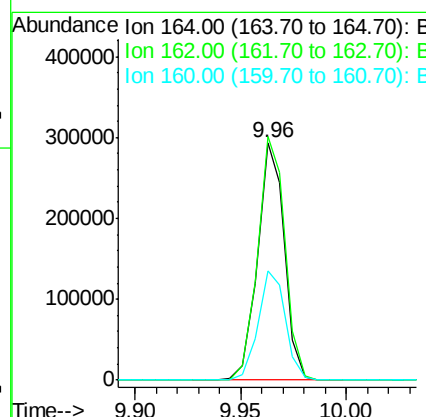
Manual Integrations
 APPROVED

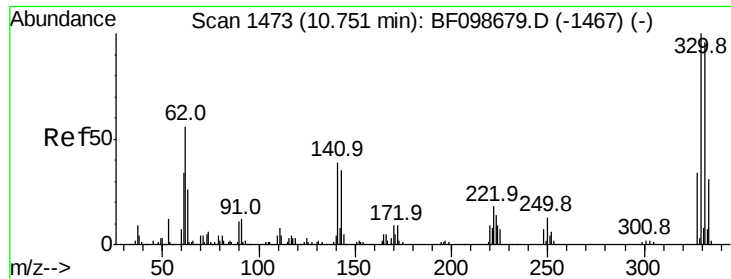
Sohil
 9/25/2017 6:21:24 PM



#38
 Acenaphthene-d10
 Concen: 20.000 ng
 RT: 9.96 min Scan# 1339
 Delta R.T. -0.01 min
 Lab File: BF098721.D
 Acq: 23 Sep 2017 2:56

Tgt Ion	Ratio	Lower	Upper
164	100		
162	102.5	86.1	129.1
160	45.8	38.3	57.5





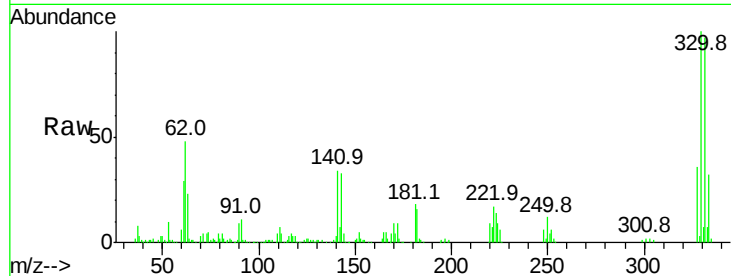
#41
 2,4,6-Tribromophenol
 Concen: 67.444 ng
 RT: 10.75 min Scan# 1473
 Delta R.T. -0.00 min
 Lab File: BF098721.D
 Acq: 23 Sep 2017 2:56

Instrument :
 BNA_F
 ClientSampleId :
 220-1-(O-U)-COMP

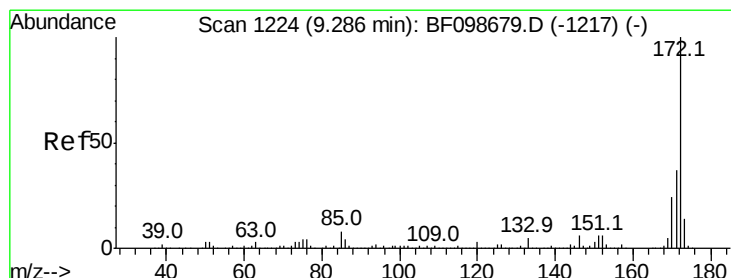
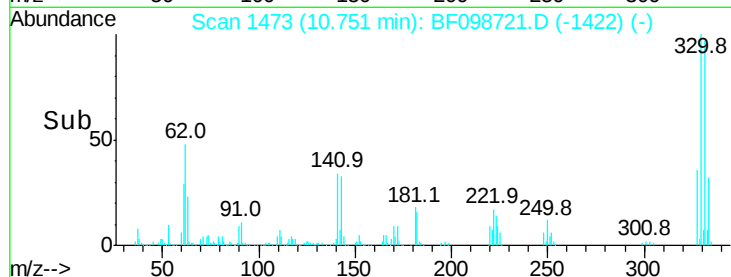
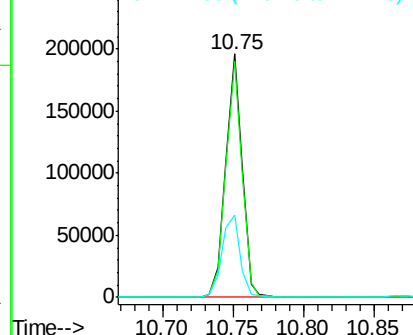
Tot Ion	Ratio	Resp	Lower	Upper
330	100	159196		
332	96.1	77.0	115.6	
141	38.4	29.9	44.9	

Manual Integrations
 APPROVED

Sohil
 9/25/2017 6:21:24 PM



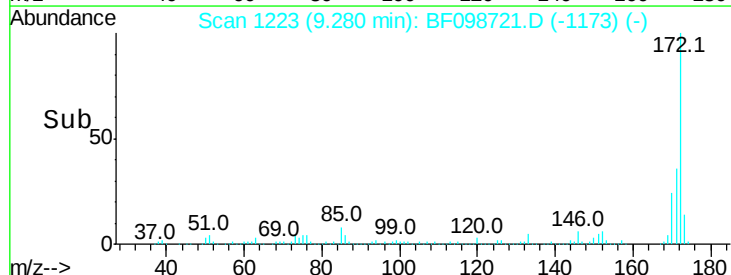
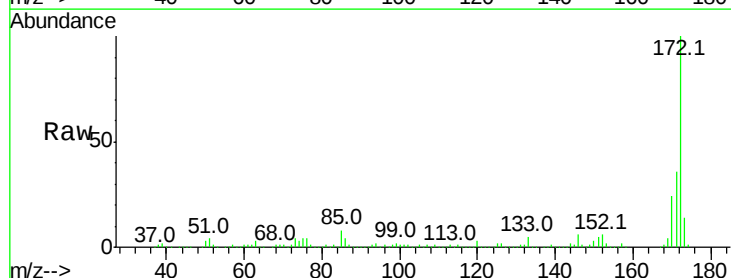
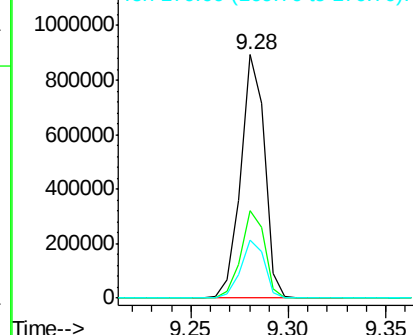
Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

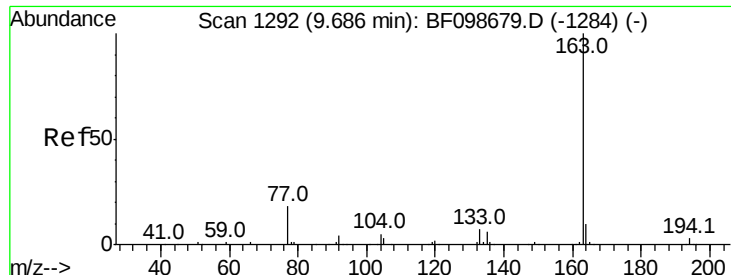


#44
 2-Fluorobiphenyl
 Concen: 46.552 ng
 RT: 9.28 min Scan# 1223
 Delta R.T. -0.01 min
 Lab File: BF098721.D
 Acq: 23 Sep 2017 2:56

Tgt Ion	Ratio	Resp	Lower	Upper
172	100	755066		
171	36.0	29.7	44.5	
170	23.6	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





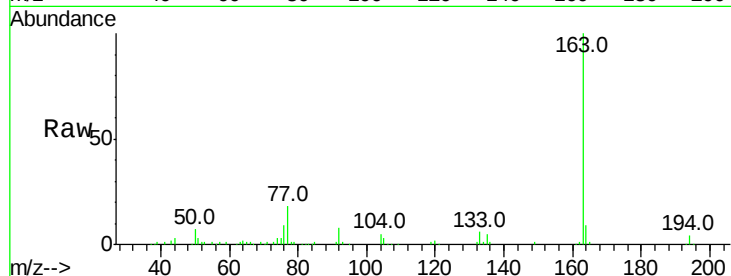
#49
Dimethylphthalate
Concen: 4.542 ng
RT: 9.67 min Scan# 1290
Delta R.T. -0.01 min
Lab File: BF098721.D
Acq: 23 Sep 2017 2:56

Instrument :
BNA_F
ClientSampleId :
220-1-(O-U)-COMP

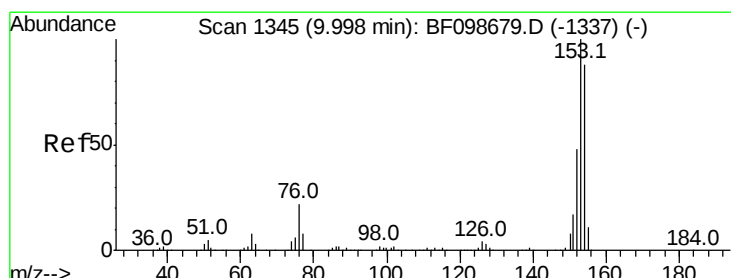
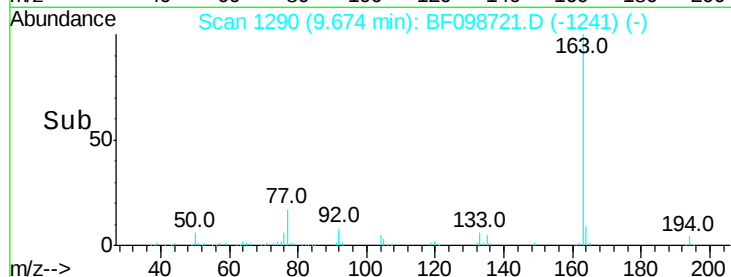
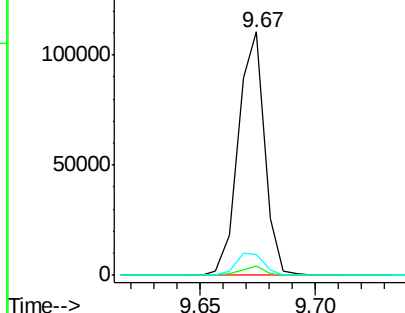
Tot Ion:	163	Resp:	87917
Ion Ratio	Lower	Upper	
163	100		
194	3.6	2.7	4.1
164	8.8	8.2	12.2

Manual Integrations
APPROVED

Sohil
9/25/2017 6:21:24 PM

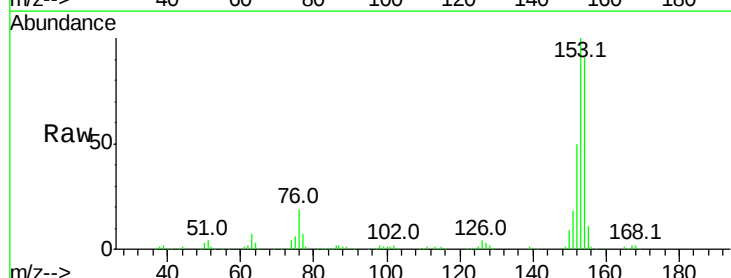


Abundance Ion 163.00 (162.70 to 163.70): E
Ion 194.00 (193.70 to 194.70): E
Ion 164.00 (163.70 to 164.70): E

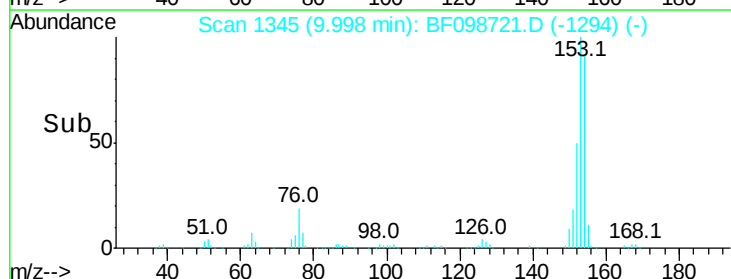
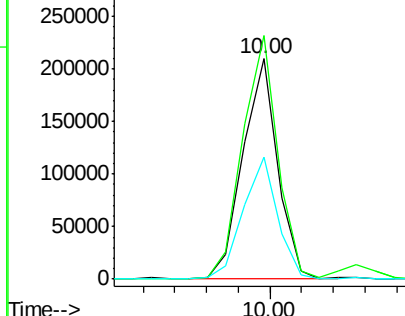


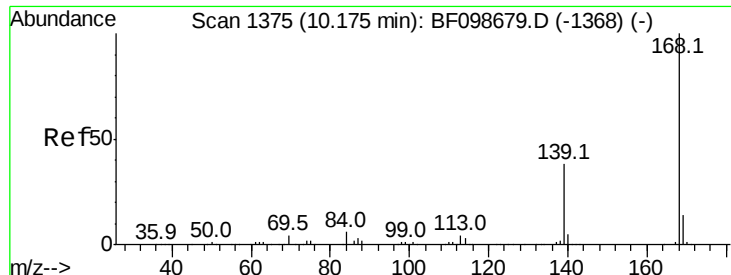
#51
Acenaphthene
Concen: 9.998 ng
RT: 10.00 min Scan# 1345
Delta R.T. -0.00 min
Lab File: BF098721.D
Acq: 23 Sep 2017 2:56

Tgt Ion:	154	Resp:	158721
Ion Ratio	Lower	Upper	
154	100		
153	110.4	91.2	136.8
152	55.3	43.8	65.8



Abundance Ion 154.00 (153.70 to 154.70): E
Ion 153.00 (152.70 to 153.70): E
Ion 152.00 (151.70 to 152.70): E





#54

Dibenzenofuran

Concen: 5.469 ng

RT: 10.17 min Scan# 1374

Delta R.T. -0.01 min

Lab File: BF098721.D

Acq: 23 Sep 2017 2:56

Instrument :

BNA_F

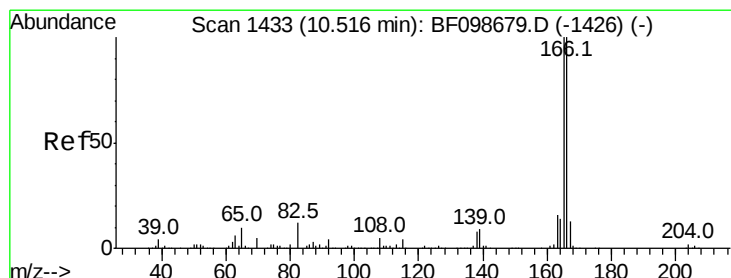
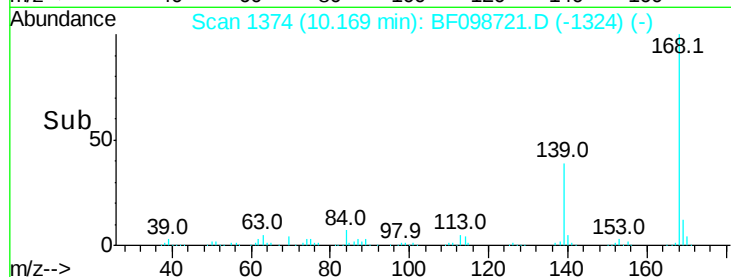
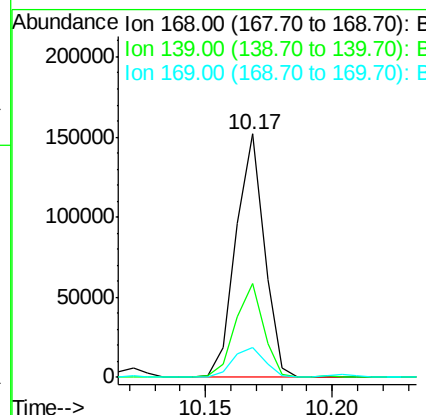
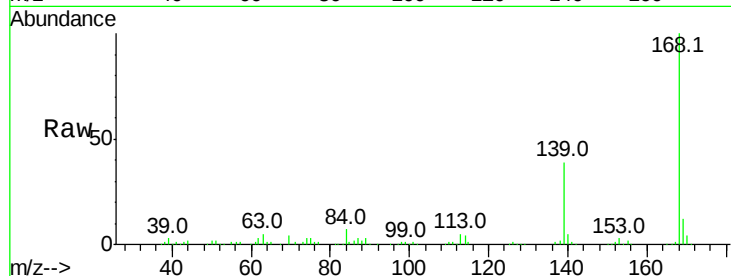
ClientSampleId :

220-1-(O-U)-COMP

Tot Ion:	168	Resp:	118554
Ion Ratio	Lower	Upper	
168	100		
139	38.7	30.1	45.1
169	12.2	10.9	16.3

Manual Integrations
APPROVED

Sohil
9/25/2017 6:21:24 PM



#57

Fluorene

Concen: 8.710 ng

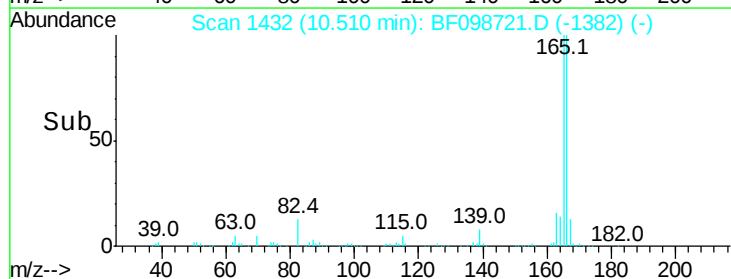
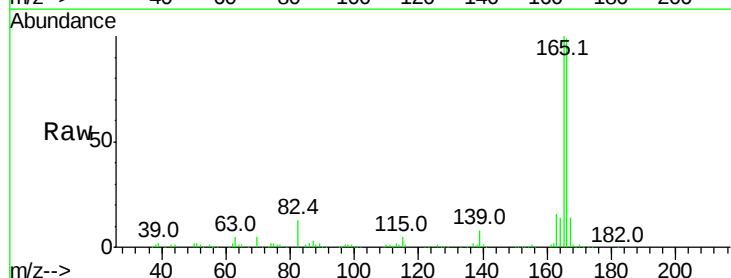
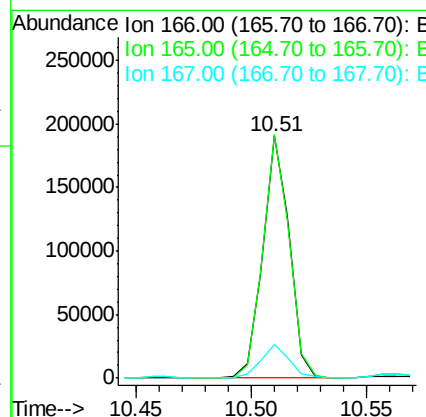
RT: 10.51 min Scan# 1432

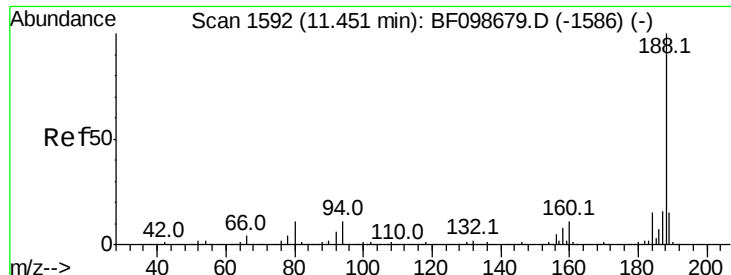
Delta R.T. -0.01 min

Lab File: BF098721.D

Acq: 23 Sep 2017 2:56

Tgt Ion:	166	Resp:	151750
Ion Ratio	Lower	Upper	
166	100		
165	100.6	79.8	119.8
167	13.7	10.6	16.0





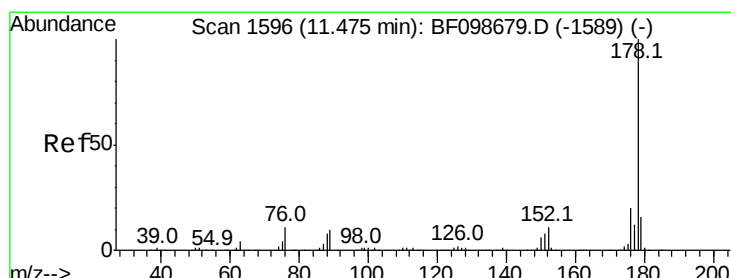
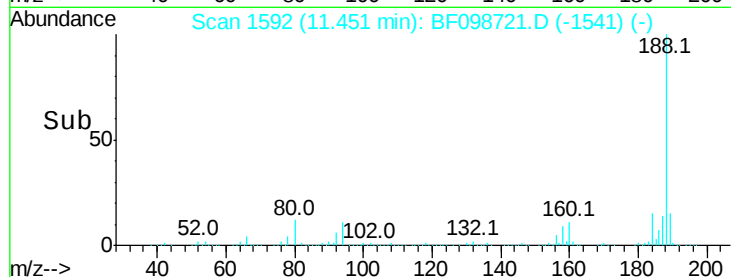
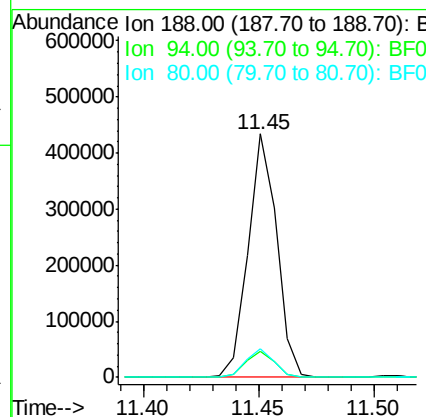
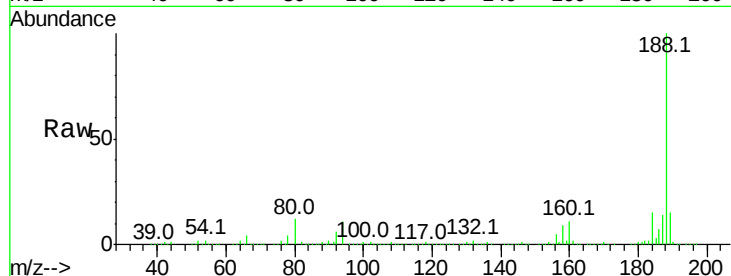
#63
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.45 min Scan# 1592
Delta R.T. -0.00 min
Lab File: BF098721.D
Acq: 23 Sep 2017 2:56

Instrument :
BNA_F
ClientSampleId :
220-1-(O-U)-COMP

Tot Ion	Ratio	Resp Lower	Upper
188	100		
94	10.8	8.5	12.7
80	11.8	9.2	13.8

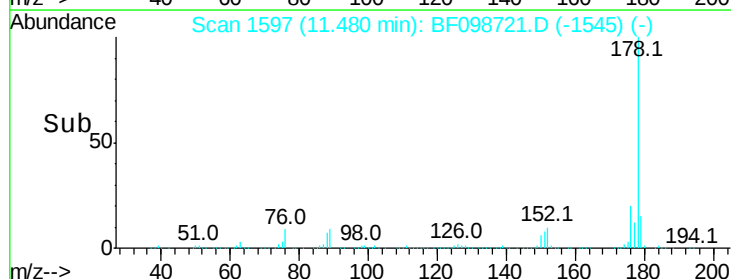
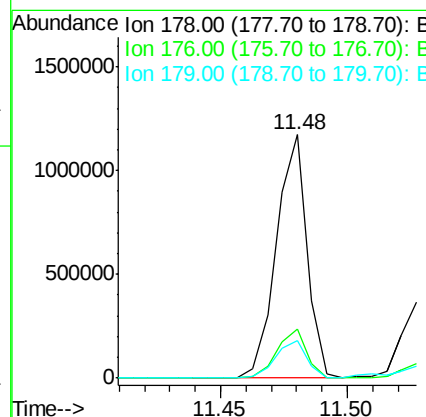
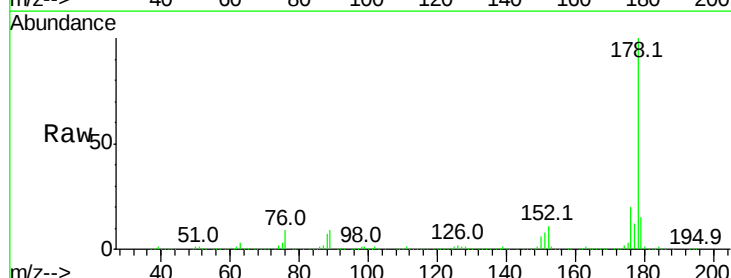
Manual Integrations
APPROVED

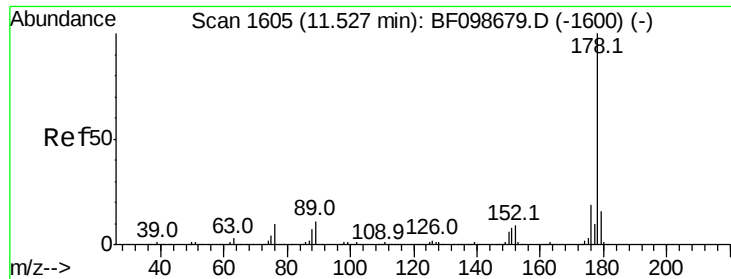
Sohil
9/25/2017 6:21:24 PM



#70
Phenanthrene
Concen: 48.498 ng
RT: 11.48 min Scan# 1597
Delta R.T. 0.01 min
Lab File: BF098721.D
Acq: 23 Sep 2017 2:56

Tgt Ion	Ratio	Resp Lower	Upper
178	100		
176	20.0	15.8	23.8
179	15.5	13.0	19.6





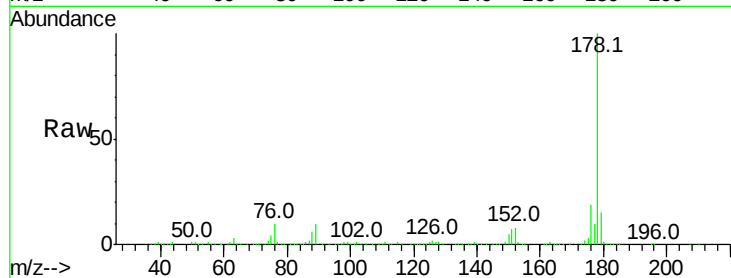
#71
 Anthracene
 Concen: 13.300 ng
 RT: 11.53 min Scan# 1605
 Delta R.T. -0.00 min
 Lab File: BF098721.D
 Acq: 23 Sep 2017 2:56

Instrument :
 BNA_F
 ClientSampleId :
 220-1-(O-U)-COMP

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

Manual Integrations
 APPROVED

Sohil
 9/25/2017 6:21:24 PM

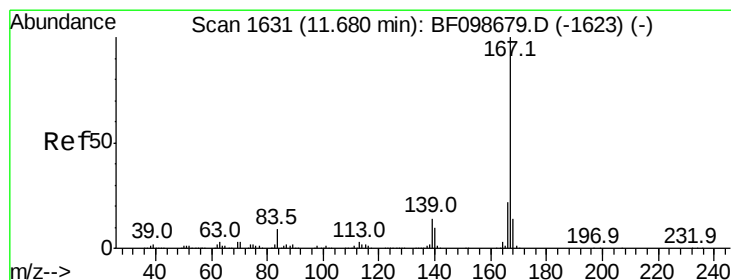
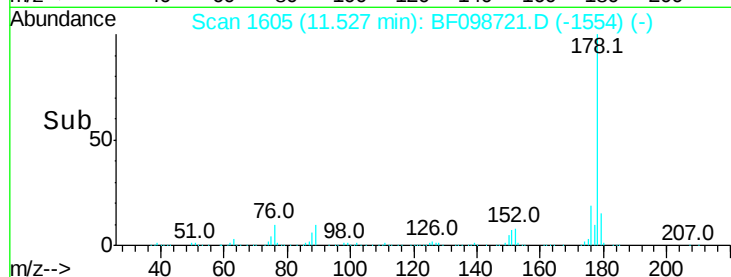
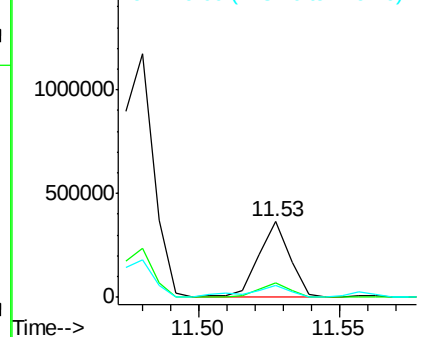


Abundance

Ion 178.00 (177.70 to 178.70): E

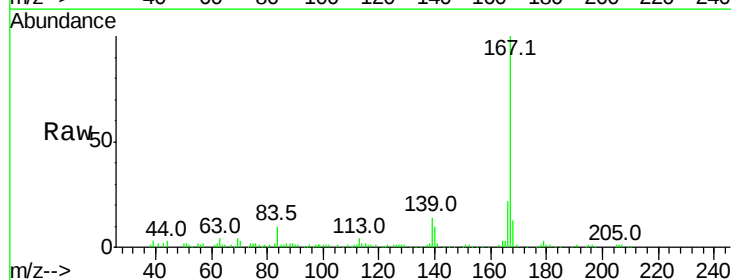
Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#72
 Carbazole
 Concen: 4.538 ng
 RT: 11.67 min Scan# 1630
 Delta R.T. -0.01 min
 Lab File: BF098721.D
 Acq: 23 Sep 2017 2:56

Tgt Ion	Ratio	Lower	Upper
167	100		
166	21.5	17.6	26.4
139	13.8	10.9	16.3

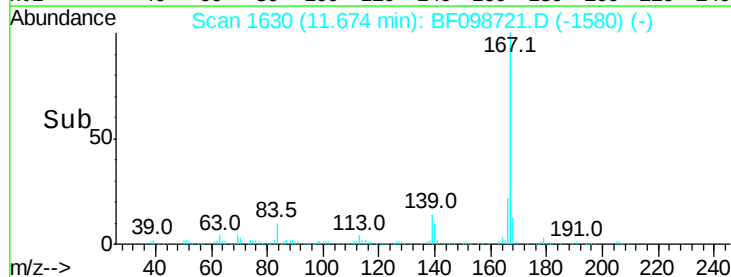
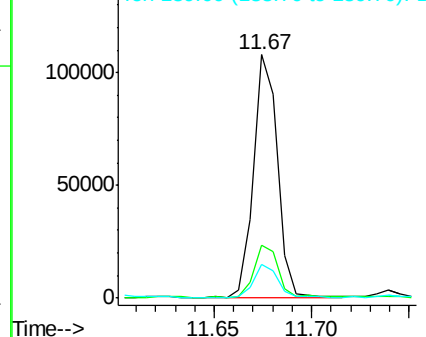


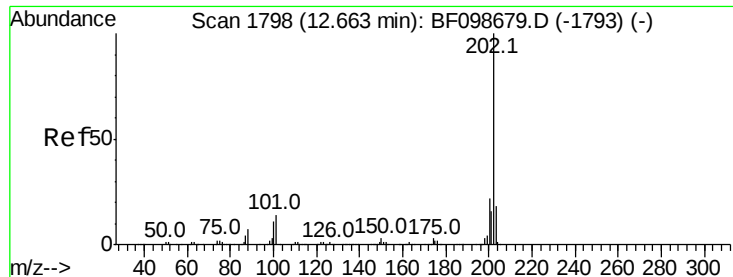
Abundance

Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E





#74

Fluoranthene

Concen: 44.878 ng

RT: 12.67 min Scan# 1799

Delta R.T. 0.01 min

Lab File: BF098721.D

Acq: 23 Sep 2017 2:56

Instrument :

BNA_F

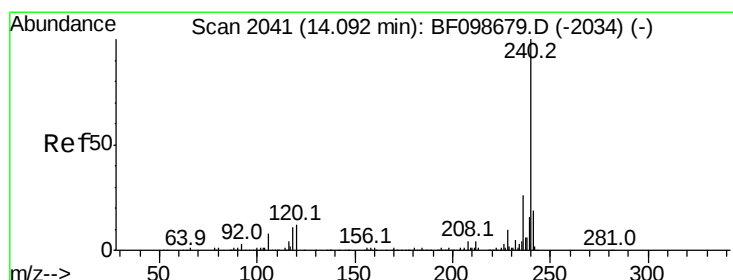
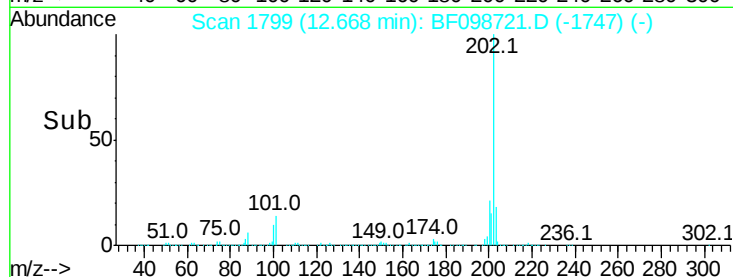
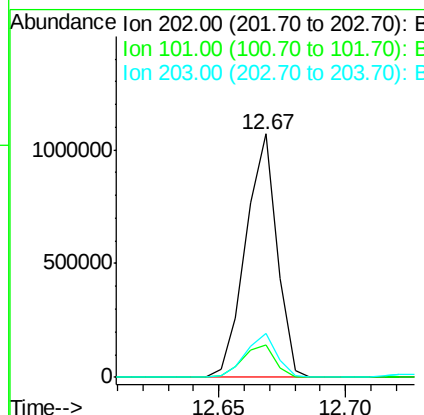
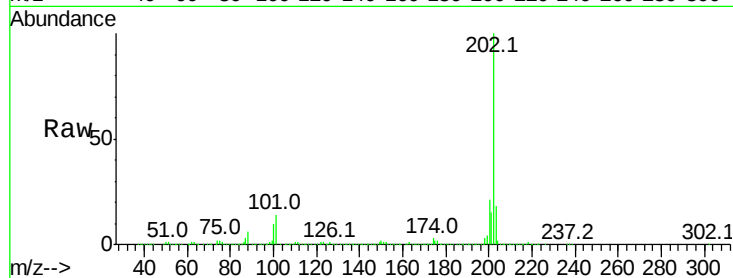
ClientSampled :

220-1-(O-U)-COMP

Tot Ion	Ratio	Resp Lower	Upper
202	100		
101	13.5	0.0	34.1
203	18.0	0.0	38.1

Manual Integrations
APPROVED

Sohil
9/25/2017 6:21:24 PM



#75

Chrysene-d12

Concen: 20.000 ng

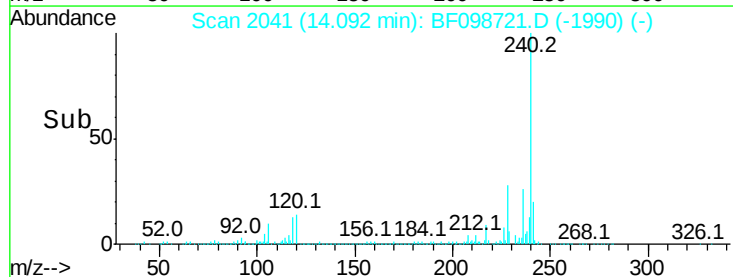
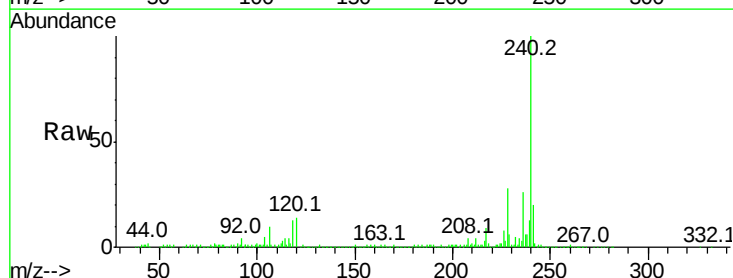
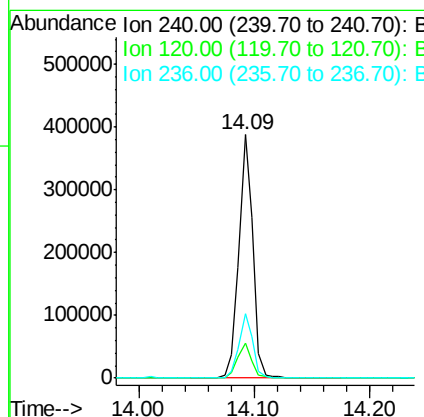
RT: 14.09 min Scan# 2041

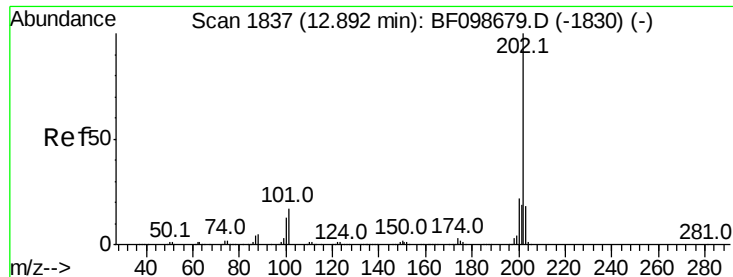
Delta R.T. -0.00 min

Lab File: BF098721.D

Acq: 23 Sep 2017 2:56

Tgt Ion	Ratio	Resp Lower	Upper
240	100		
120	14.4	9.5	14.3#
236	26.4	20.7	31.1





#77

Pvrene

Concen: 33.606 ng

RT: 12.90 min Scan# 1838

Delta R.T. 0.01 min

Lab File: BF098721.D

Acq: 23 Sep 2017 2:56

Instrument :

BNA_F

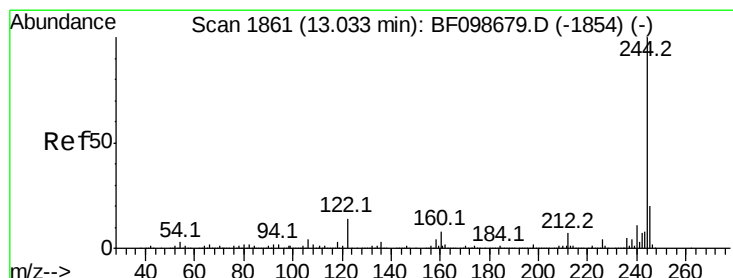
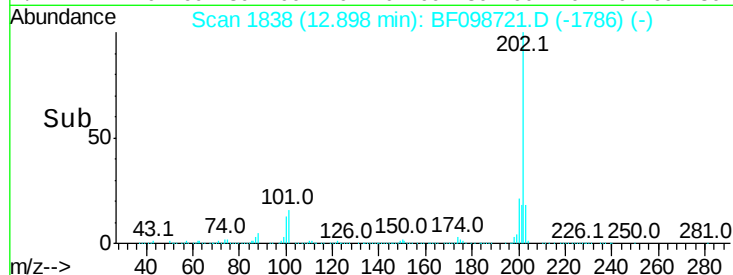
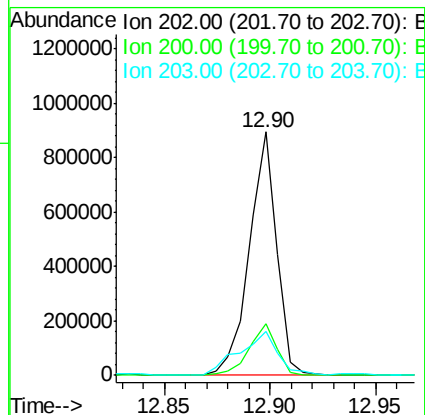
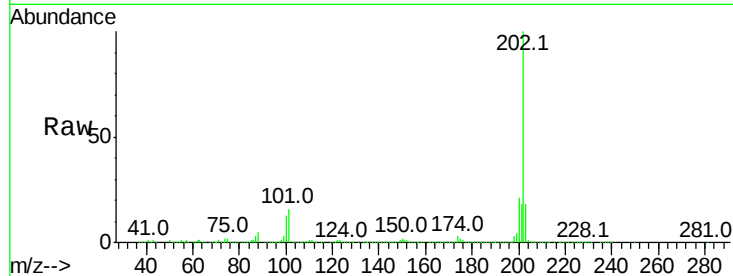
ClientSampleId :

220-1-(O-U)-COMP

Tot Ion:	202	Resp:	802750
Ion Ratio		Lower	Upper
202	100		
200	21.4	17.4	26.2
203	17.9	14.3	21.5

Manual Integrations
APPROVED

Sohil
9/25/2017 6:21:24 PM



#78

Terphenyl-d14

Concen: 37.753 ng

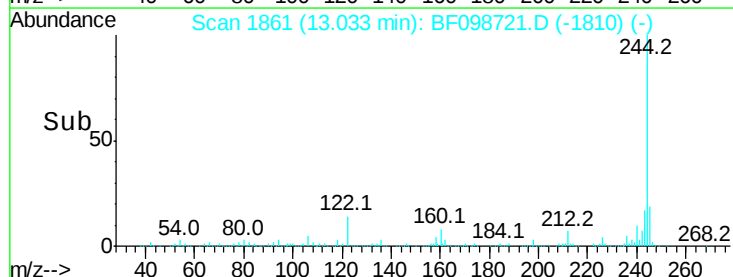
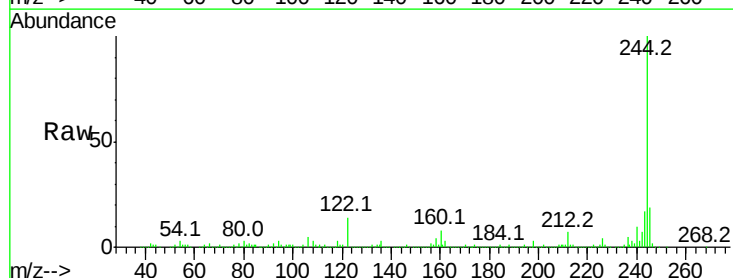
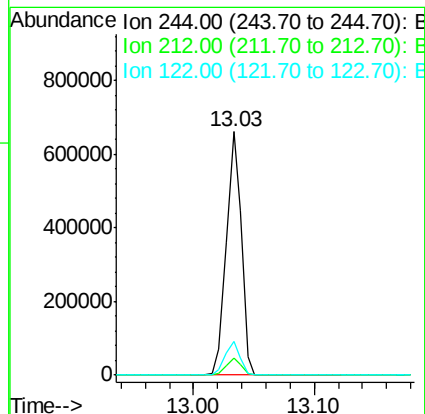
RT: 13.03 min Scan# 1861

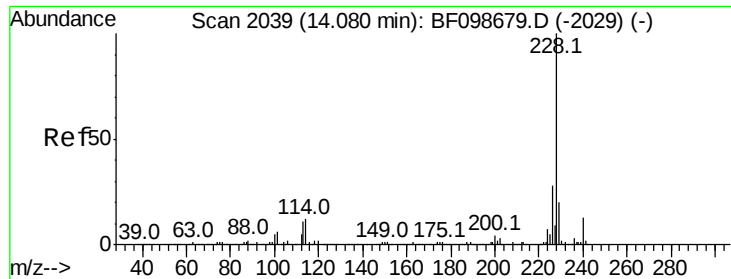
Delta R.T. -0.00 min

Lab File: BF098721.D

Acq: 23 Sep 2017 2:56

Tgt Ion:	244	Resp:	565707
Ion Ratio		Lower	Upper
244	100		
212	7.0	5.4	8.0
122	13.8	11.0	16.4





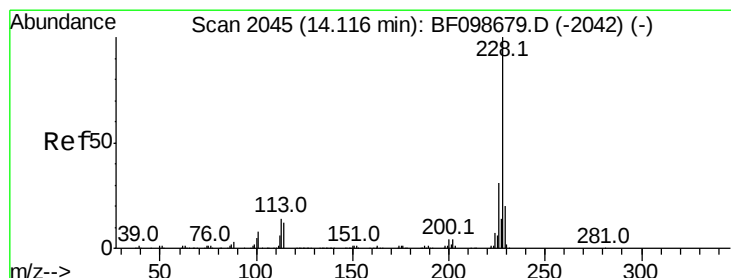
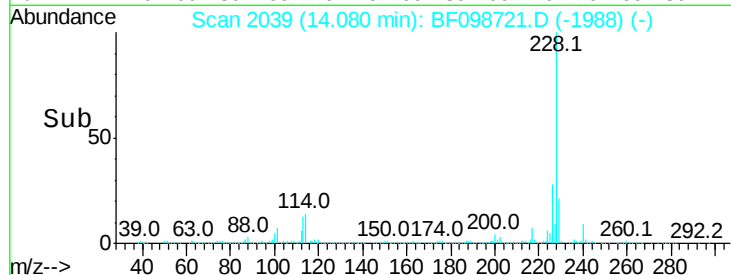
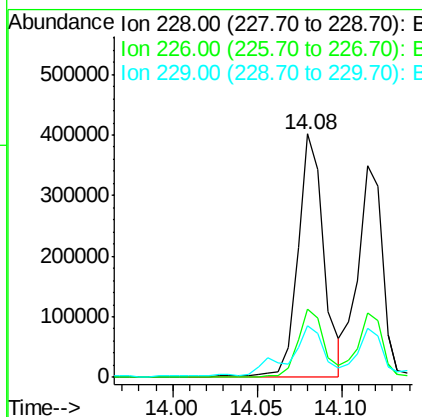
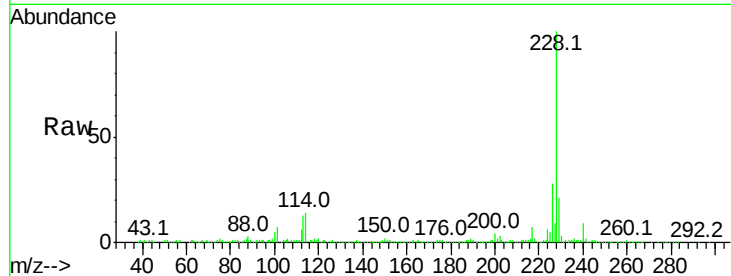
#80
Benzo(a)anthracene
Concen: 21.890 ng
RT: 14.08 min Scan# 2039
Delta R.T. -0.00 min
Lab File: BF098721.D
Acq: 23 Sep 2017 2:56

Instrument :
BNA_F
ClientSampleId :
220-1-(O-U)-COMP

Tot Ion	Ratio	Lower	Upper
228	100		
226	28.1	22.6	33.8
229	21.2	15.8	23.6

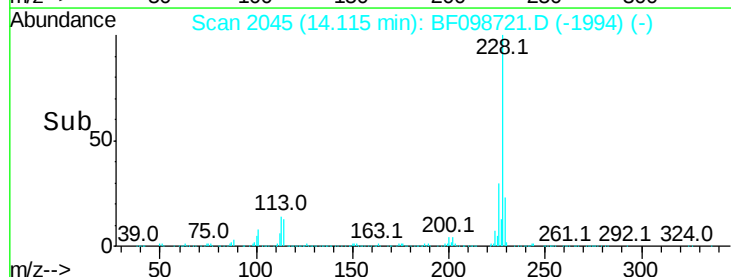
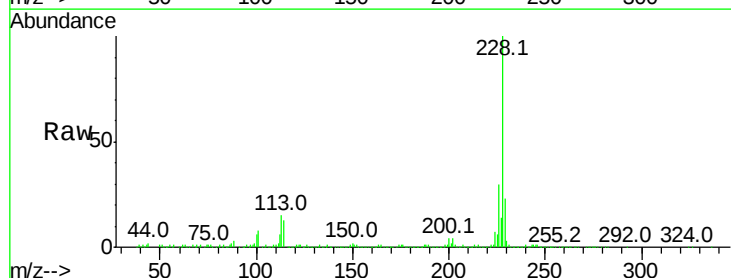
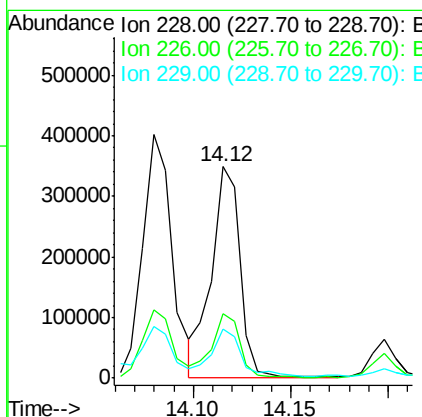
Manual Integrations
APPROVED

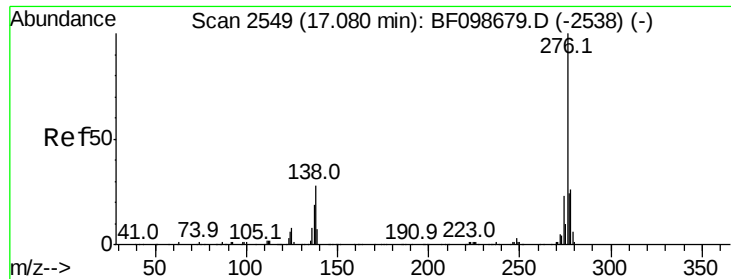
Sohil
9/25/2017 6:21:24 PM



#82
Chrysene
Concen: 18.841 ng
RT: 14.12 min Scan# 2045
Delta R.T. -0.00 min
Lab File: BF098721.D
Acq: 23 Sep 2017 2:56

Tgt Ion	Ratio	Lower	Upper
228	100		
226	30.3	25.0	37.6
229	23.1	16.2	24.4





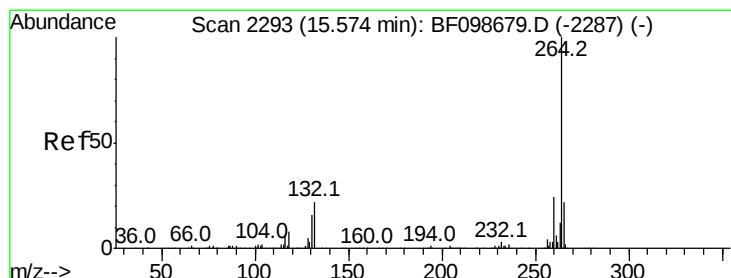
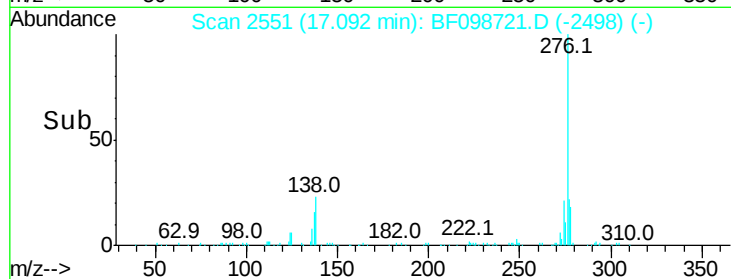
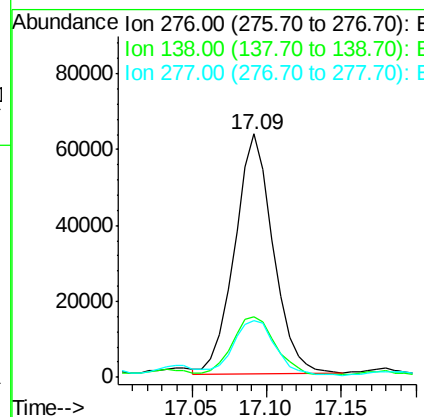
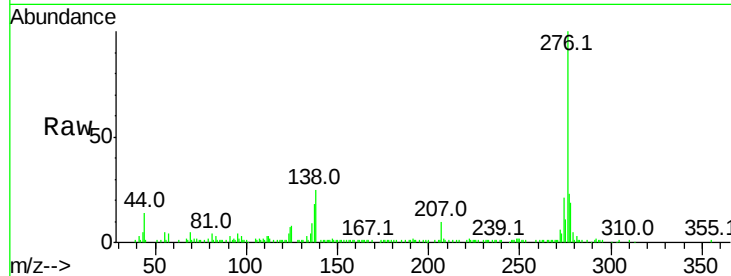
#85
Indeno(1,2,3-cd)pyrene
Concen: 7.851 ng
RT: 17.09 min Scan# 2551
Delta R.T. 0.01 min
Lab File: BF098721.D
Acq: 23 Sep 2017 2:56

Instrument :
BNA_F
ClientSampleId :
220-1-(O-U)-COMP

Tot Ion	Ratio	Lower	Upper
276	100		
138	26.4	25.0	37.6
277	24.9	20.1	30.1

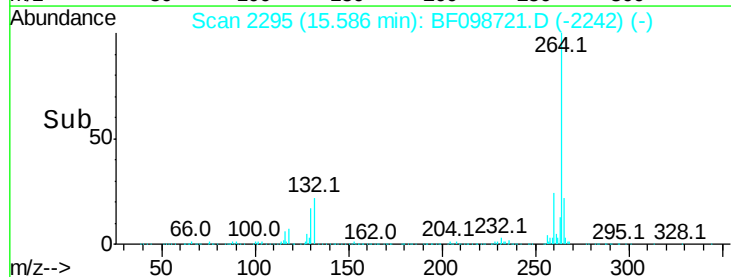
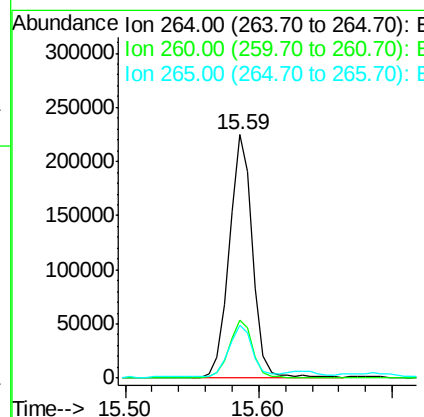
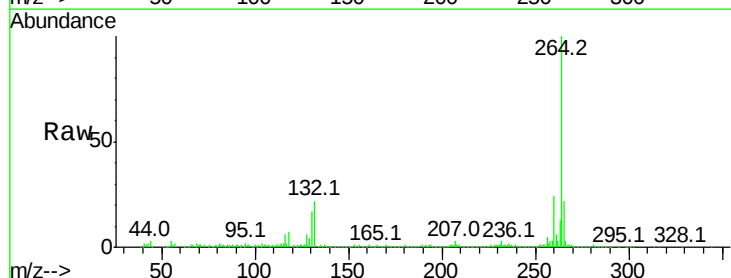
Manual Integrations
APPROVED

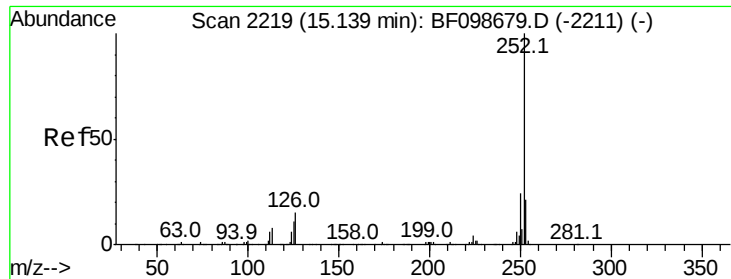
Sohil
9/25/2017 6:21:24 PM



#86
Perylene-d12
Concen: 20.000 ng
RT: 15.59 min Scan# 2295
Delta R.T. 0.01 min
Lab File: BF098721.D
Acq: 23 Sep 2017 2:56

Tgt Ion	Ratio	Lower	Upper
264	100		
260	24.1	19.2	28.8
265	22.0	17.5	26.3





#87

Benzo(b)fluoranthene

Concen: 22.615 ng m

RT: 15.14 min Scan# 2220

Delta R.T. 0.01 min

Lab File: BF098721.D

Acq: 23 Sep 2017 2:56

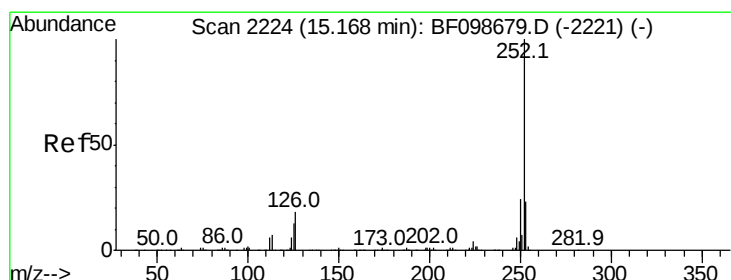
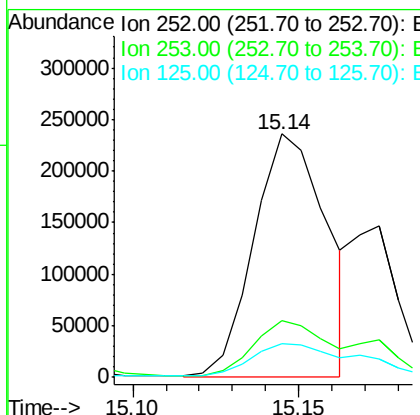
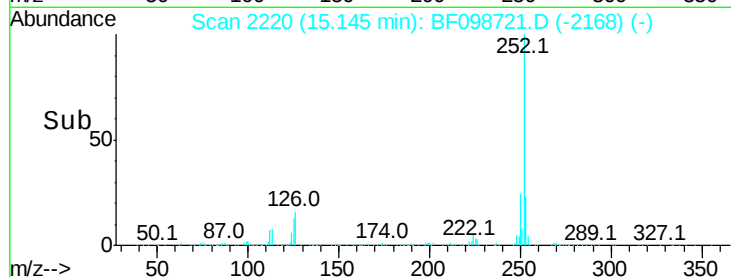
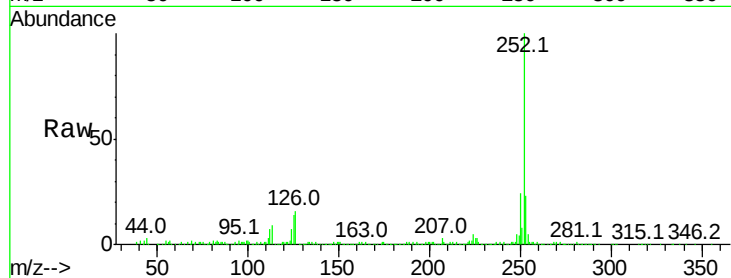
Instrument :
BNA_F

Client Sample Id :
220-1-(O-U)-COMP

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.3	17.0	25.6
125	13.9	9.0	13.6

Manual Integrations
APPROVED

Sohil
9/25/2017 6:21:24 PM



#88

Benzo(k)fluoranthene

Concen: 8.593 ng m

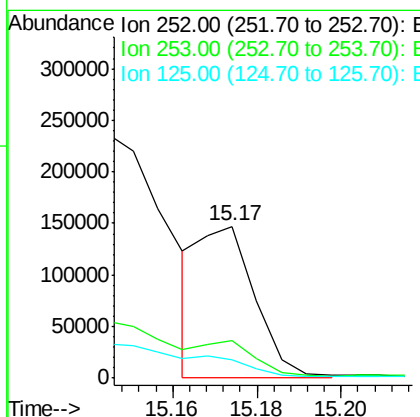
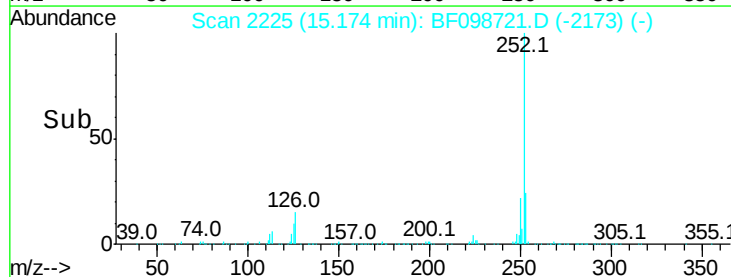
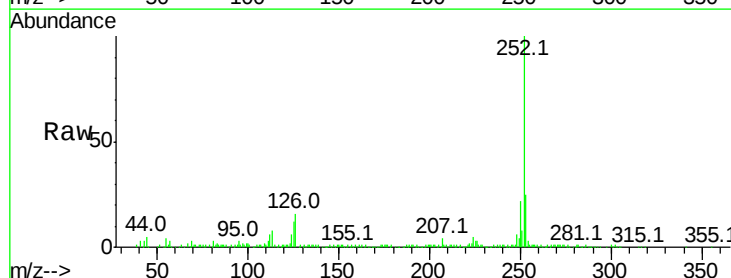
RT: 15.17 min Scan# 2225

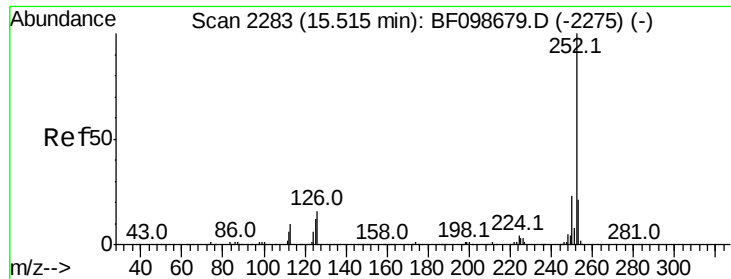
Delta R.T. 0.01 min

Lab File: BF098721.D

Acq: 23 Sep 2017 2:56

Tgt Ion	Ratio	Lower	Upper
252	100		
253	24.8	17.9	26.9
125	11.8	10.2	15.2





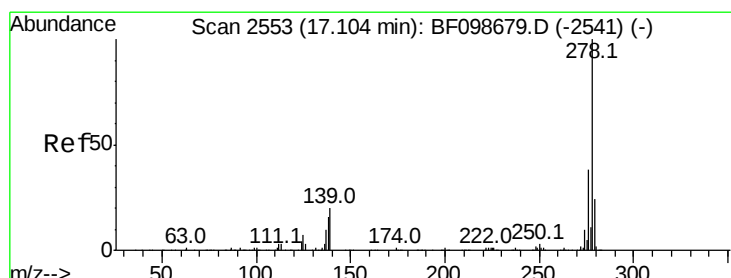
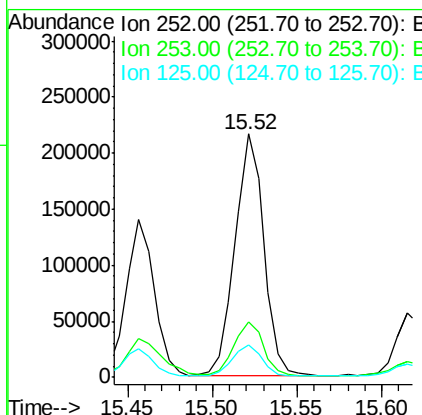
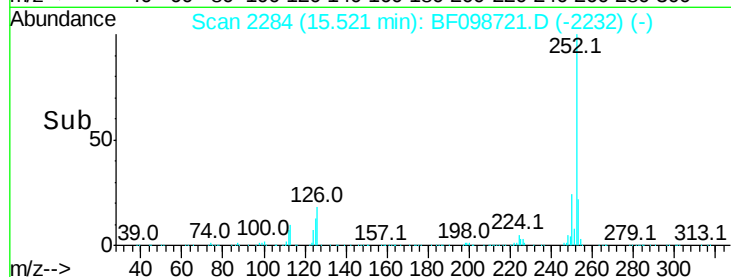
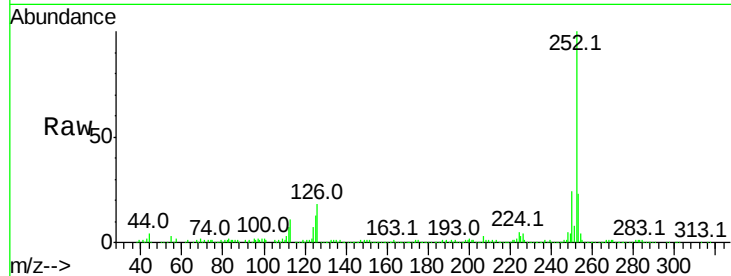
#89
Benzo(a)pyrene
Concen: 17.917 ng
RT: 15.52 min Scan# 2284
Delta R.T. 0.01 min
Lab File: BF098721.D
Acq: 23 Sep 2017 2:56

Instrument :
BNA_F
ClientSampleId :
220-1-(O-U)-COMP

Tot Ion:	252	Resp:	258519
Ion Ratio	Lower	Upper	
252	100		
253	22.6	17.1	25.7
125	13.4	9.8	14.6

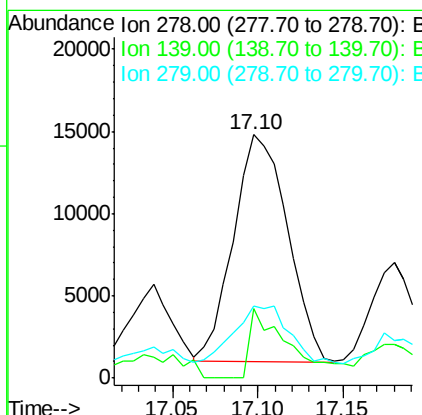
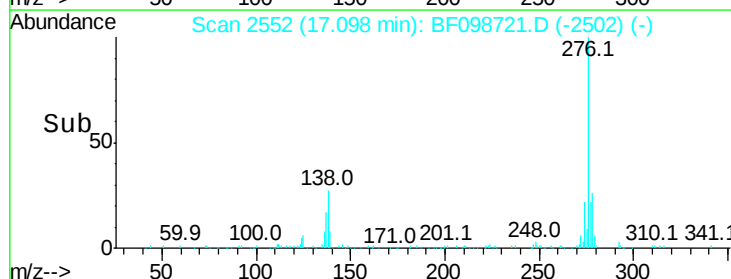
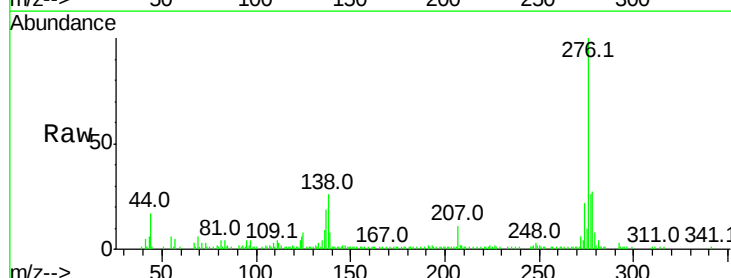
Manual Integrations
APPROVED

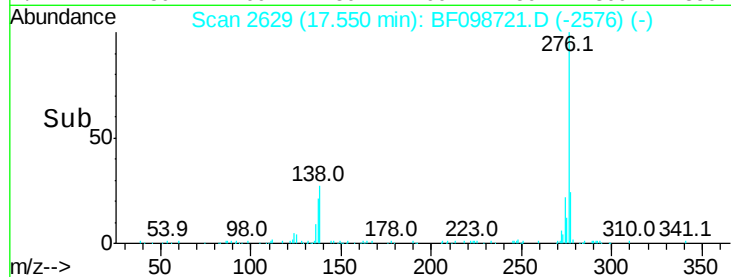
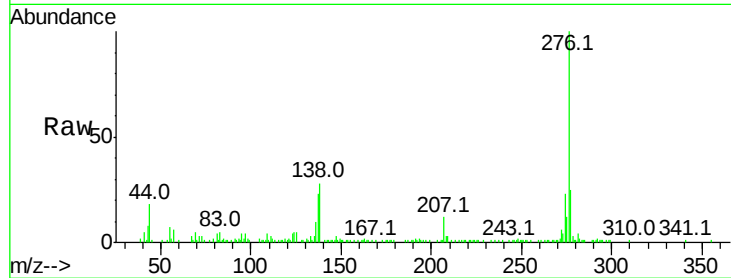
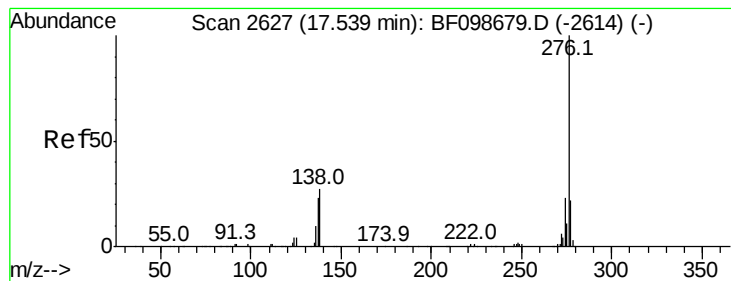
Sohil
9/25/2017 6:21:24 PM



#90
Dibenzo(a,h)anthracene
Concen: 2.491 ng m
RT: 17.10 min Scan# 2552
Delta R.T. -0.01 min
Lab File: BF098721.D
Acq: 23 Sep 2017 2:56

Tgt Ion:	278	Resp:	30395
Ion Ratio	Lower	Upper	
278	100		
139	28.4	15.9	23.9#
279	29.9	19.0	28.4#





#91

Benzo(a,h,i)perylene

Concen: 8.543 ng

RT: 17.55 min Scan# 2629

Delta R.T. 0.01 min

Lab File: BF098721.D

Acq: 23 Sep 2017 2:56

Instrument :

BNA_F

ClientSampleId :

220-1-(O-U)-COMP

Tot Ion:	276	Resp:	104787
Ion Ratio	Lower	Upper	
276	100		
277	25.5	17.9	26.9
138	28.3	21.8	32.8

Manual Integrations
APPROVED

Sohil
9/25/2017 6:21:24 PM

