

Data Path : Z:\HPCHEM1\BNA F\DATA\BF021418\
 Data File : BF102999.D
 Acq On : 14 Feb 2018 19:40
 Operator : SJ/JU
 Sample : J1539-20
 Misc :
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 CB-1-SW(4-9)

Manual Integrations
 APPROVED

Sohil
 2/15/2018 11:06:37 AM

Quant Time: Feb 15 01:12:54 2018
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF020318.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Feb 05 00:38:27 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.87	152	170855	20.00	ng	0.00
21) Naphthalene-d8	8.16	136	678532	20.00	ng	0.00
38) Acenaphthene-d10	9.92	164	248094	20.00	ng	0.00
63) Phenanthrene-d10	11.41	188	362489	20.00	ng	0.01
75) Chrysene-d12	14.07	240	211766	20.00	ng	0.03
86) Perylene-d12	15.56	264	199820	20.00	ng	0.06

System Monitoring Compounds

5) 2-Fluorophenol	5.50	112	1027949	91.37	ng	0.01
7) Phenol-d6	6.51	99	1228267	90.67	ng	0.01
23) Nitrobenzene-d5	7.44	82	752295	76.91	ng	0.00
41) 2,4,6-Tribromophenol	10.71	330	169683	84.97	ng	0.00
44) 2-Fluorobiphenyl	9.23	172	974869	65.20	ng	0.00
78) Terphenyl-d14	13.00	244	623780	69.75	ng	0.01

Target Compounds

						Qvalue
10) Phenol	6.52	94	38558	2.656	ng	99
31) Naphthalene	8.18	128	153570	4.632	ng	99
37) 2-Methylnaphthalene	8.87	142	126471	5.827	ng	100
49) Dimethylphthalate	9.63	163	621685	32.138	ng	100
51) Acenaphthene	9.95	154	107119	7.010	ng	98
54) Dibenzofuran	10.12	168	117094	5.438	ng	# 92
57) Fluorene	10.46	166	153286	9.784	ng	97
70) Phenanthrene	11.44	178	1912556	94.736	ng	99
71) Anthracene	11.49	178	637061	31.026	ng	100
72) Carbazole	11.64	167	257083	12.780	ng	97
74) Fluoranthene	12.64	202	2244444	110.500	ng	100
77) Pyrene	12.87	202	2186343	131.662	ng	99
80) Benzo(a)anthracene	14.06	228	1212841	91.067	ng	97
82) Chrysene	14.10	228	1049764	78.193	ng	97
85) Indeno(1,2,3-cd)pyrene	17.07	276	607002	54.515	ng	94
87) Benzo(b)fluoranthene	15.13	252	1245821m	96.165	ng	
88) Benzo(k)fluoranthene	15.15	252	321586m	25.980	ng	
89) Benzo(a)pyrene	15.50	252	900575	77.229	ng	# 92
90) Dibenzo(a,h)anthracene	17.08	278	157539	16.644	ng	# 88
91) Benzo(a,h,i)perylene	17.54	276	577077	62.291	ng	97

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

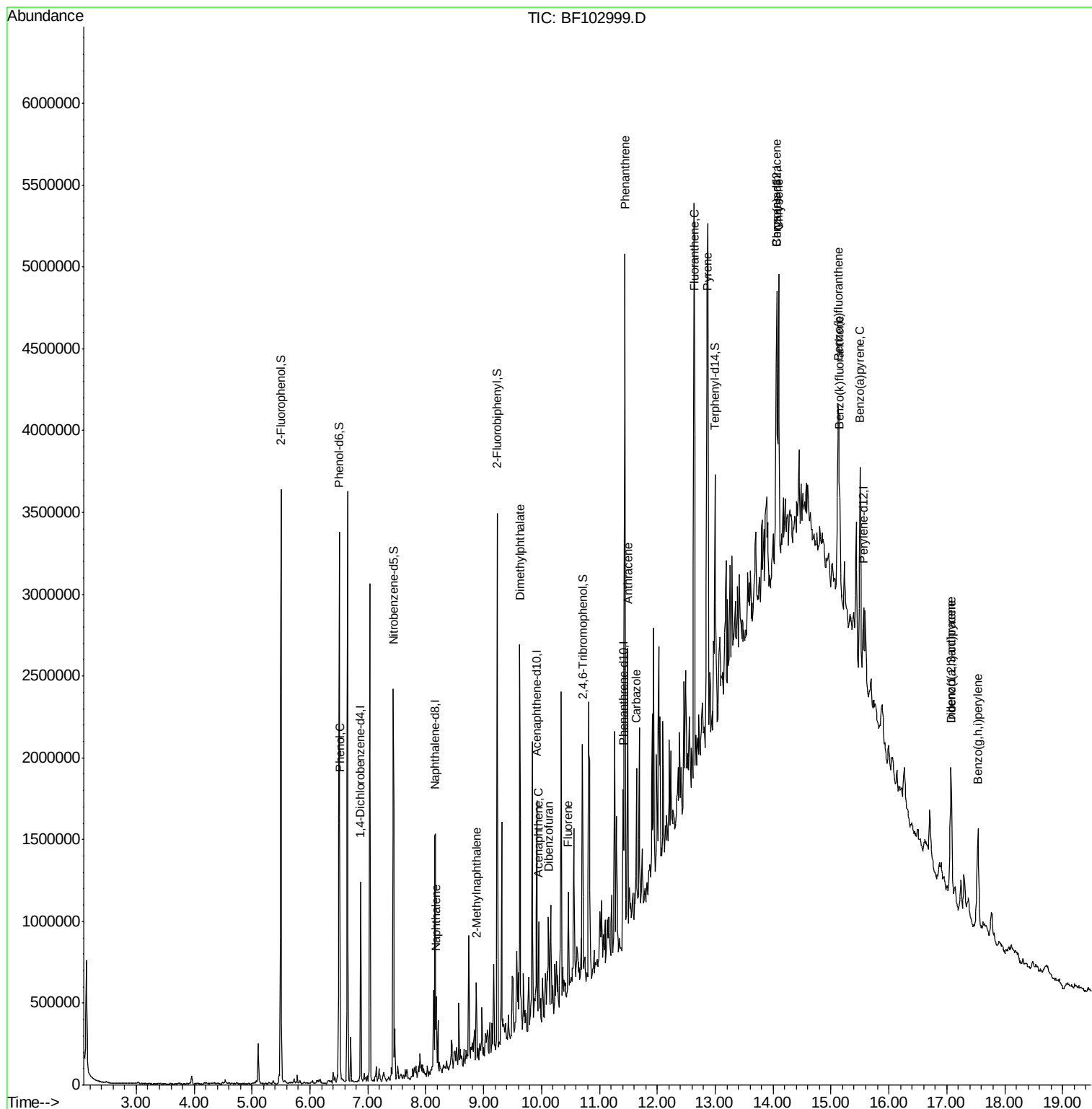
Data Path : Z:\HPCHEM1\BNA F\DATA\BF021418\
Data File : BF102999.D
Acq On : 14 Feb 2018 19:40
Operator : SJ/JU
Sample : J1539-20
Misc :
ALS Vial : 24 Sample Multiplier: 1

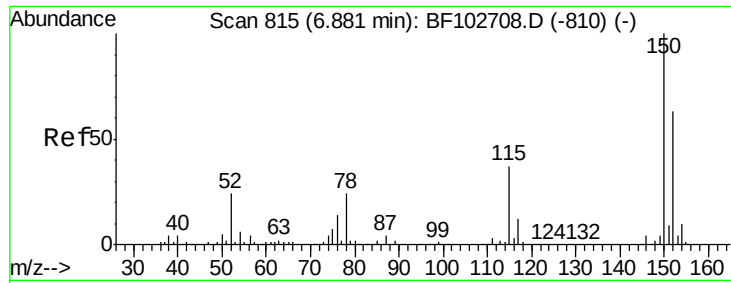
Instrument :
BNA_F
ClientSampleId :
CB-1-SW(4-9)

Manual Integrations
APPROVED

Sohil
2/15/2018 11:06:37 AM

Quant Time: Feb 15 01:12:54 2018
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF020318.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Feb 05 00:38:27 2018
Response via : Initial Calibration





#1

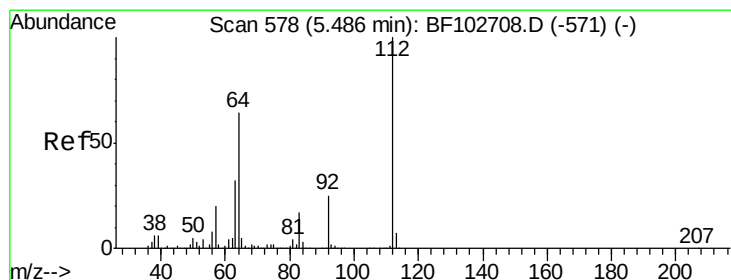
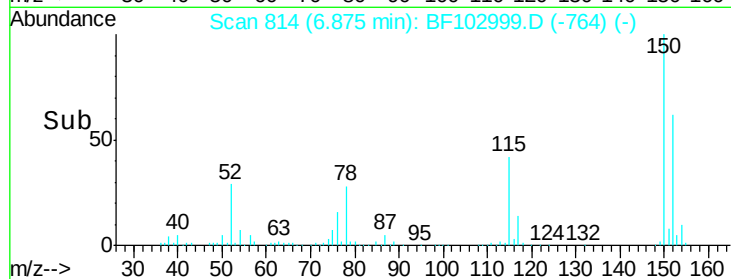
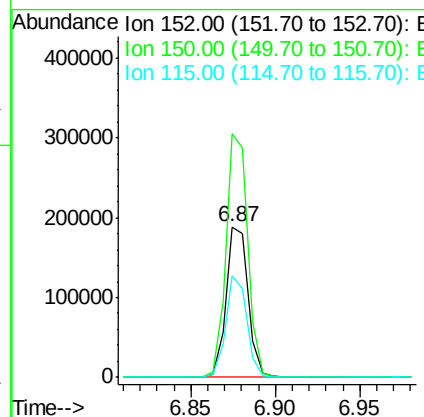
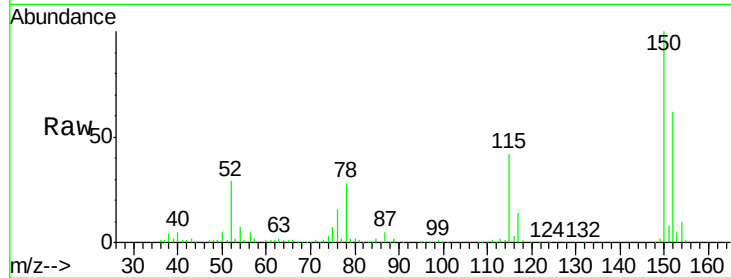
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.87 min Scan# 814
Delta R.T. -0.01 min
Lab File: BF102999.D
Acq: 14 Feb 2018 19:40

Instrument :
BNA_F
ClientSampleId :
CB-1-SW(4-9)

Tot Ion	Ratio	Lower	Upper
152	100		
150	161.8	124.6	186.8
115	67.8	50.1	75.1

Manual Integrations
APPROVED

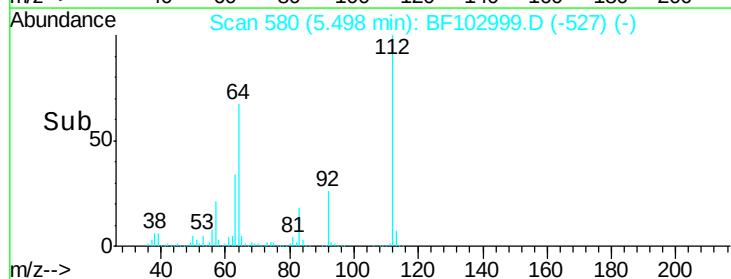
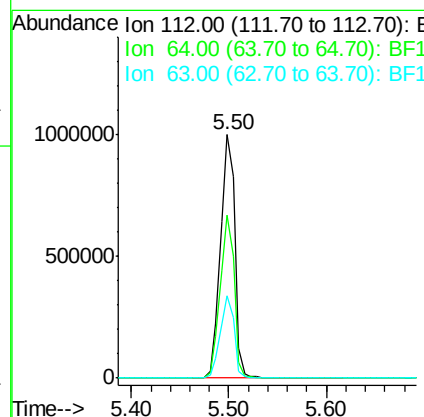
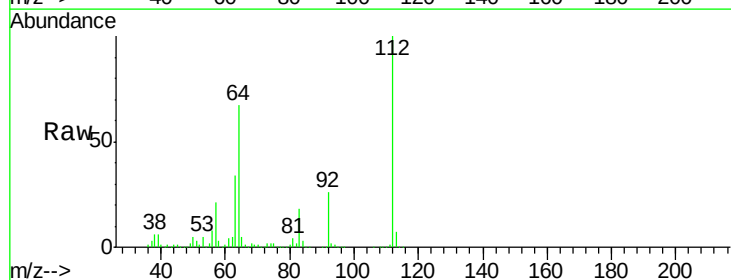
Sohil
2/15/2018 11:06:37 AM

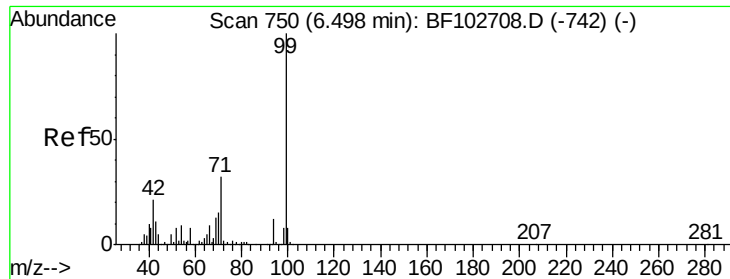


#5

2-Fluorophenol
Concen: 91.371 ng
RT: 5.50 min Scan# 580
Delta R.T. 0.01 min
Lab File: BF102999.D
Acq: 14 Feb 2018 19:40

Tgt Ion	Ratio	Lower	Upper
112	100		
64	66.8	47.9	71.9
63	33.6	23.7	35.5





#7

Phenol-d6

Concen: 90.673 ng

RT: 6.51 min Scan# 752

Delta R.T. 0.01 min

Lab File: BF102999.D

Acq: 14 Feb 2018 19:40

Instrument :

BNA_F

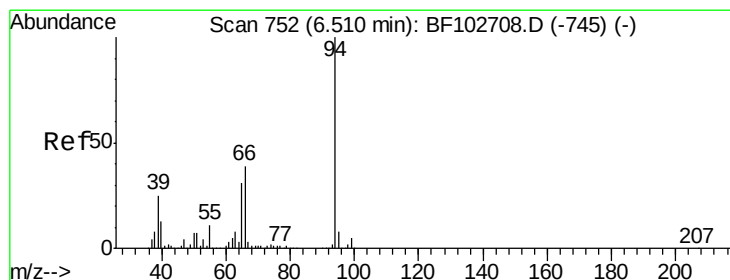
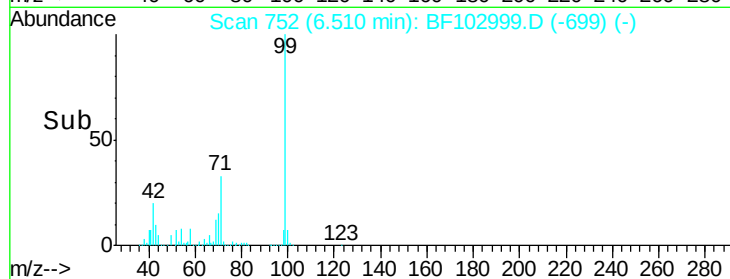
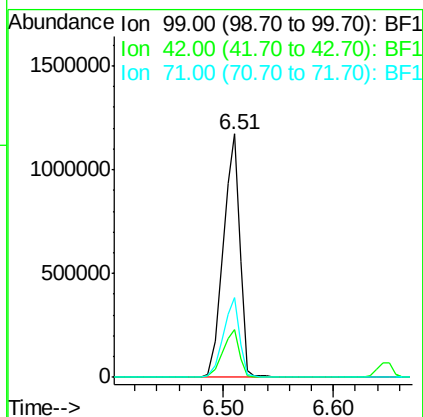
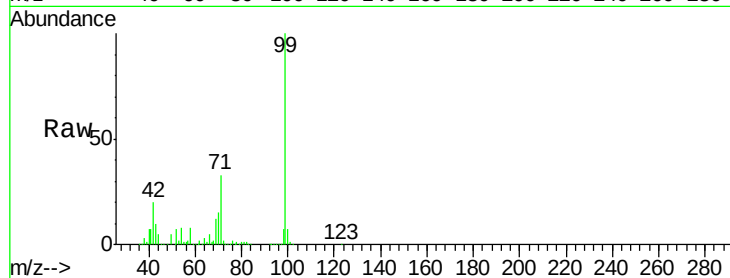
ClientSampleId :

CB-1-SW(4-9)

Tot Ion:	99	Resp:	1228267
Ion	Ratio	Lower	Upper
99	100		
42	19.6	14.5	21.7
71	32.7	25.4	38.0

Manual Integrations
APPROVED

Sohil
2/15/2018 11:06:37 AM



#10

Phenol

Concen: 2.656 ng

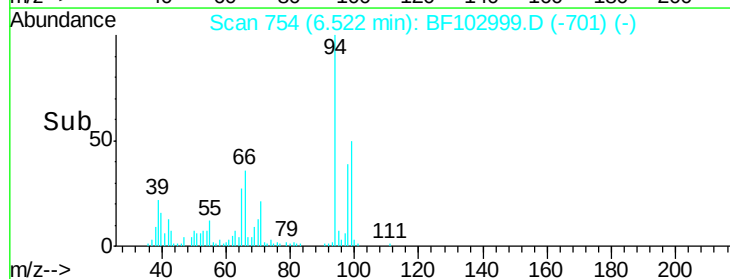
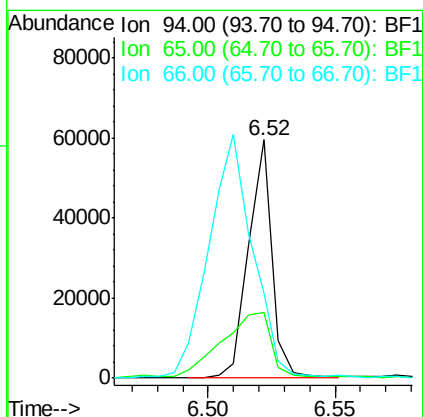
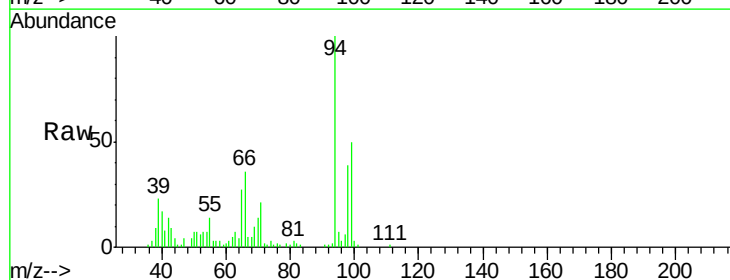
RT: 6.52 min Scan# 754

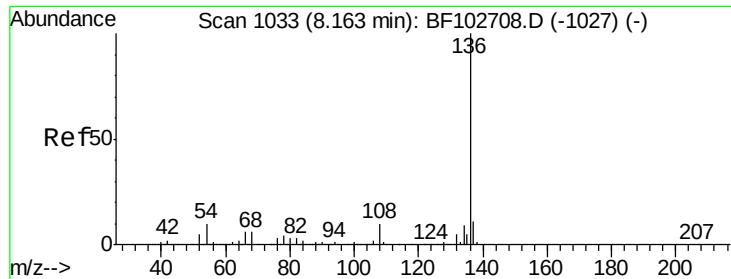
Delta R.T. 0.01 min

Lab File: BF102999.D

Acq: 14 Feb 2018 19:40

Tgt Ion:	94	Resp:	38558
Ion	Ratio	Lower	Upper
94	100		
65	27.4	7.9	47.9
66	35.7	16.2	56.2





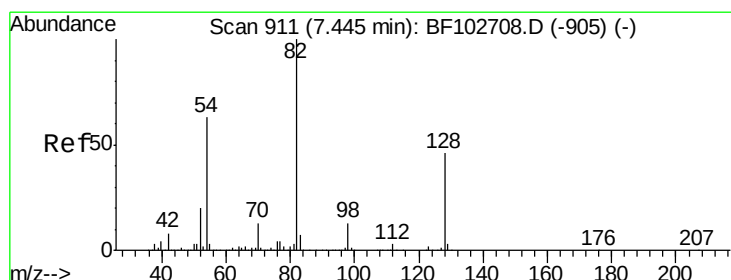
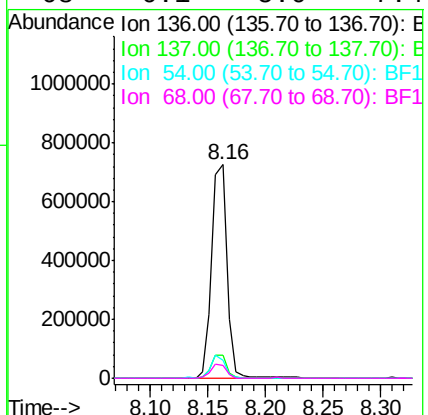
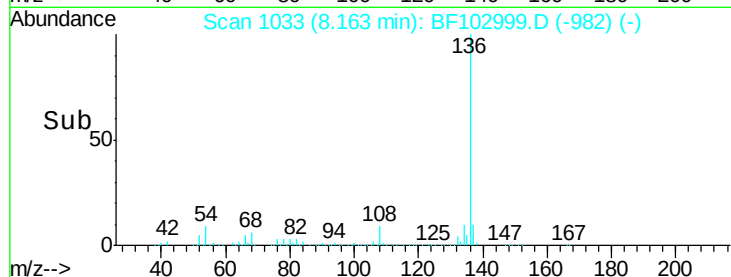
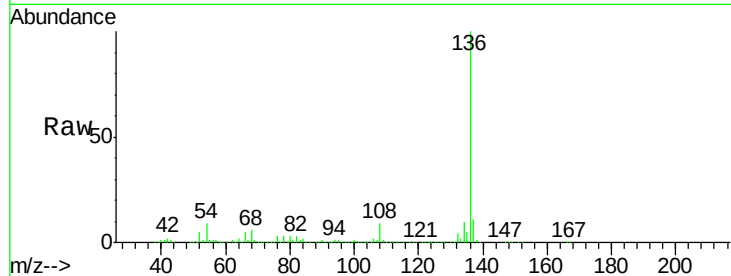
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.16 min Scan# 1033
Delta R.T. 0.00 min
Lab File: BF102999.D
Acq: 14 Feb 2018 19:40

Instrument :
BNA_F
ClientSampleId :
CB-1-SW(4-9)

Tot Ion	Ratio	Resp	Lower	Upper
136	100	678532		
137	10.5	8.9	13.3	
54	8.7	6.6	9.8	
68	6.1	5.0	7.4	

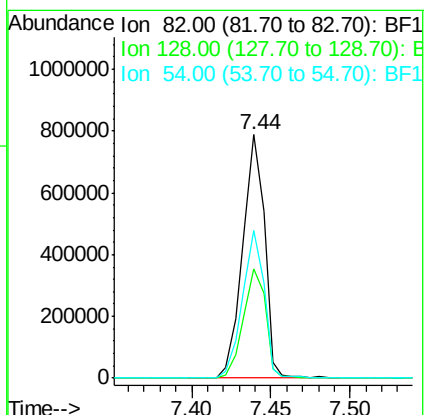
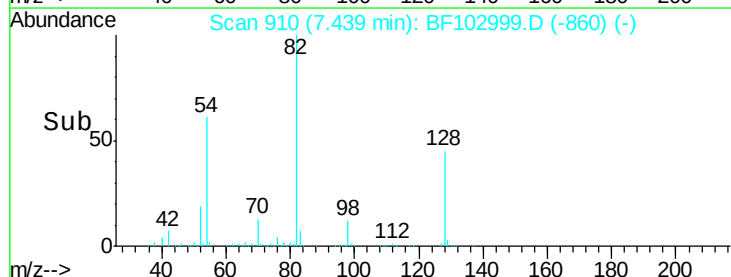
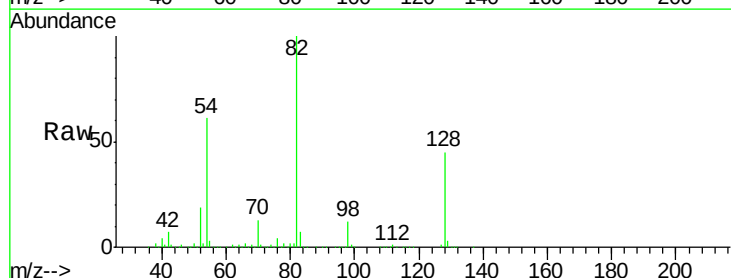
Manual Integrations
APPROVED

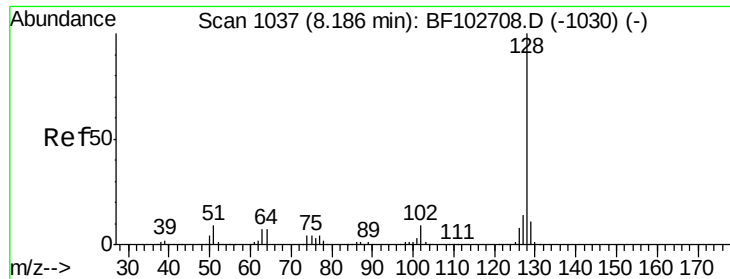
Sohil
2/15/2018 11:06:37 AM



#23
Nitrobenzene-d5
Concen: 76.912 ng
RT: 7.44 min Scan# 910
Delta R.T. -0.01 min
Lab File: BF102999.D
Acq: 14 Feb 2018 19:40

Tgt Ion	Ratio	Resp	Lower	Upper
82	100	752295		
128	45.0	36.1	54.1	
54	60.9	41.4	62.2	





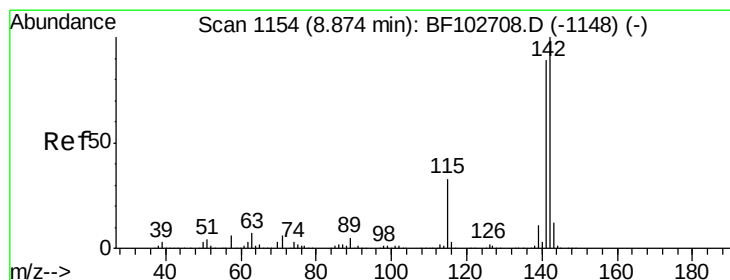
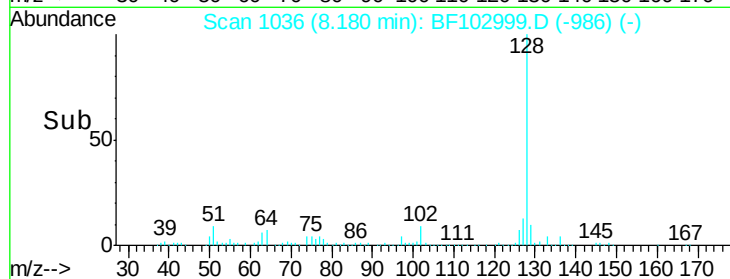
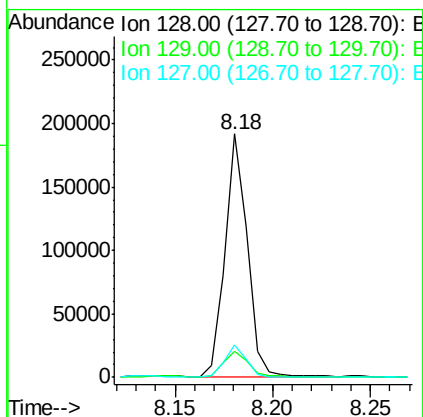
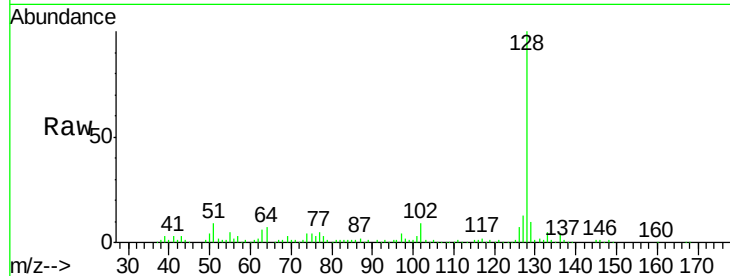
#31
Naphthalene
Concen: 4.632 ng
RT: 8.18 min Scan# 1036
Delta R.T. -0.01 min
Lab File: BF102999.D
Acq: 14 Feb 2018 19:40

Instrument :
BNA_F
ClientSampleId :
CB-1-SW(4-9)

Tot Ion	Ratio	Lower	Upper
128	100		
129	10.4	8.8	13.2
127	13.1	10.9	16.3

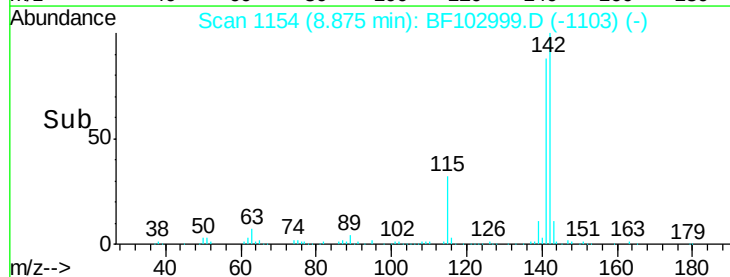
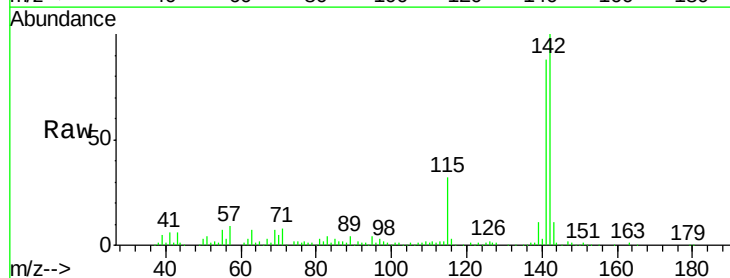
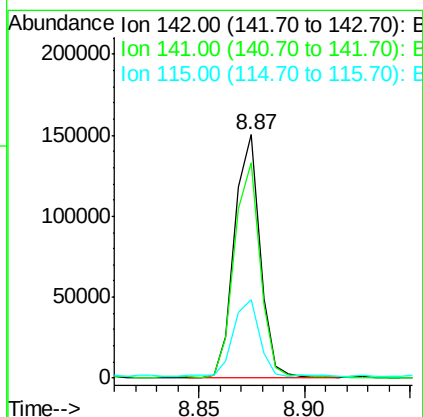
Manual Integrations
APPROVED

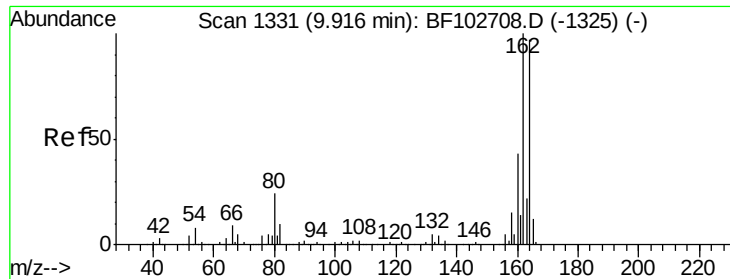
Sohil
2/15/2018 11:06:37 AM



#37
2-Methylnaphthalene
Concen: 5.827 ng
RT: 8.87 min Scan# 1154
Delta R.T. 0.00 min
Lab File: BF102999.D
Acq: 14 Feb 2018 19:40

Tgt Ion	Ratio	Lower	Upper
142	100		
141	88.3	70.8	106.2
115	32.1	26.1	39.1





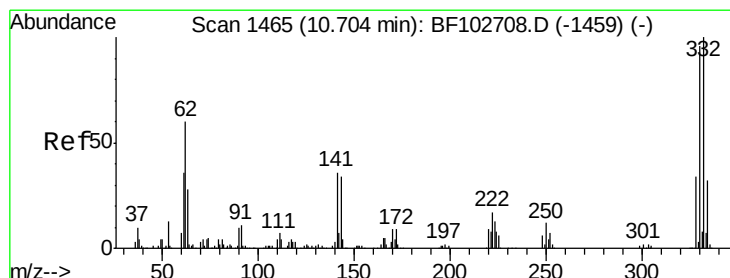
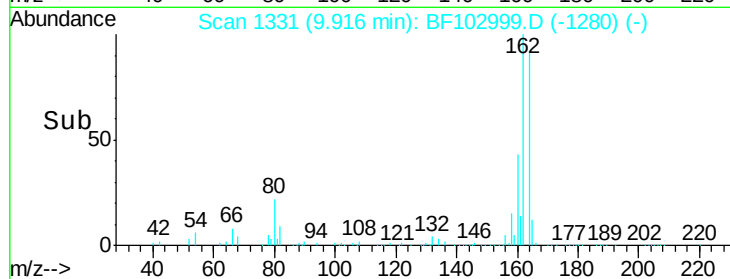
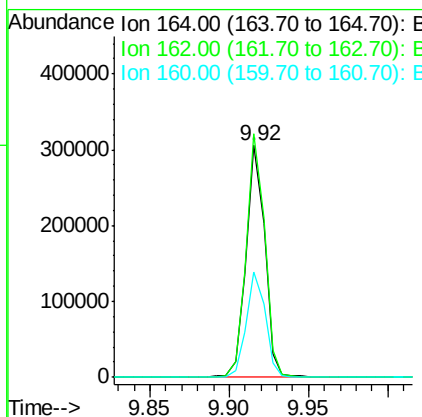
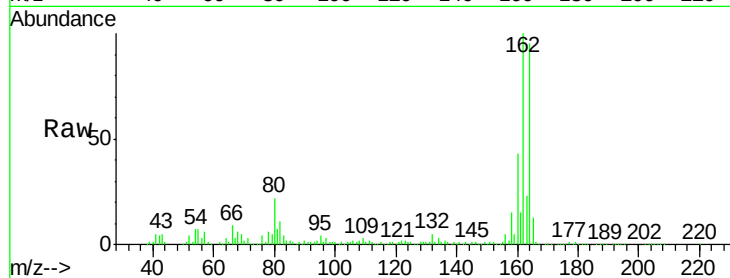
#38
 Acenaphthene-d10
 Concen: 20.000 ng
 RT: 9.92 min Scan# 1331
 Delta R.T. 0.00 min
 Lab File: BF102999.D
 Acq: 14 Feb 2018 19:40

Instrument :
 BNA_F
 ClientSampleId :
 CB-1-SW(4-9)

Tot Ion	Ratio	Resp	Lower	Upper
164	100			
162	105.2	86.1	129.1	
160	45.3	38.3	57.5	

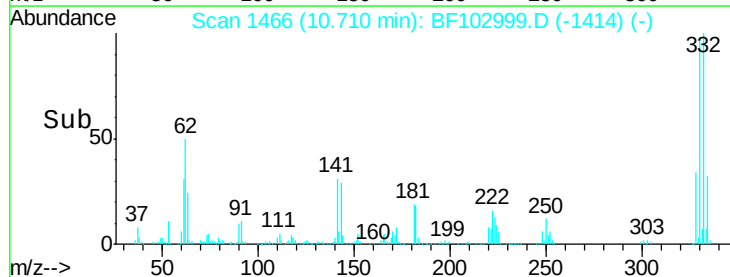
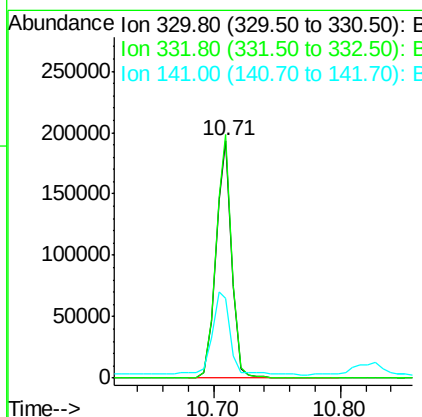
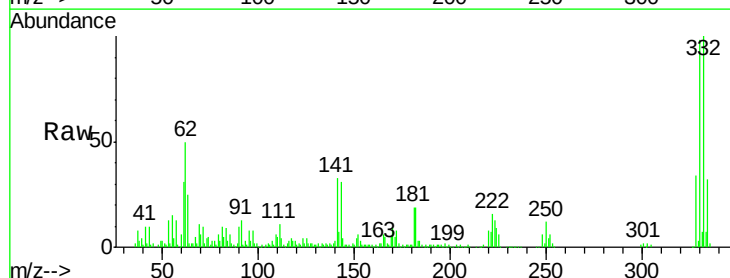
Manual Integrations
 APPROVED

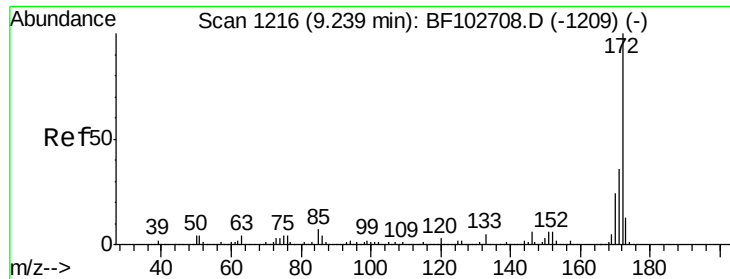
Sohil
 2/15/2018 11:06:37 AM



#41
 2,4,6-Tribromophenol
 Concen: 84.975 ng
 RT: 10.71 min Scan# 1466
 Delta R.T. 0.01 min
 Lab File: BF102999.D
 Acq: 14 Feb 2018 19:40

Tgt Ion	Ratio	Resp	Lower	Upper
330	100			
332	101.7	77.0	115.6	
141	38.3	29.9	44.9	





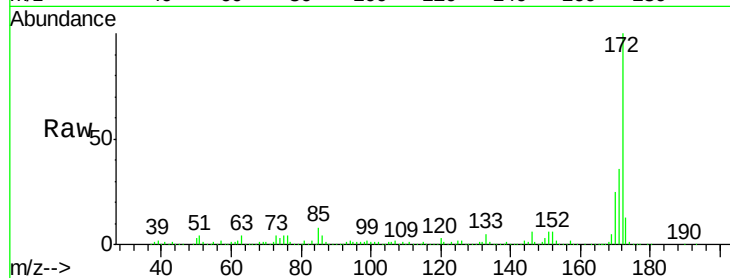
#44
2-Fluorobiphenyl
Concen: 65.203 ng
RT: 9.23 min Scan# 1215
Delta R.T. -0.01 min
Lab File: BF102999.D
Acq: 14 Feb 2018 19:40

Instrument :
BNA_F
ClientSampleId :
CB-1-SW(4-9)

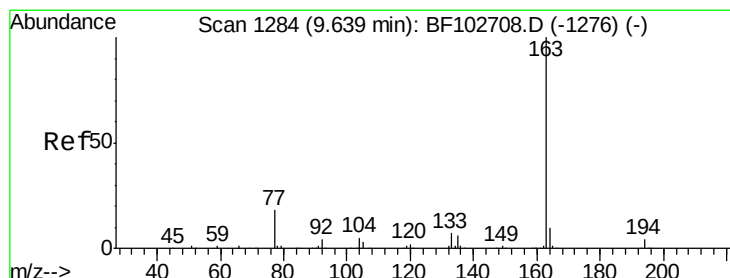
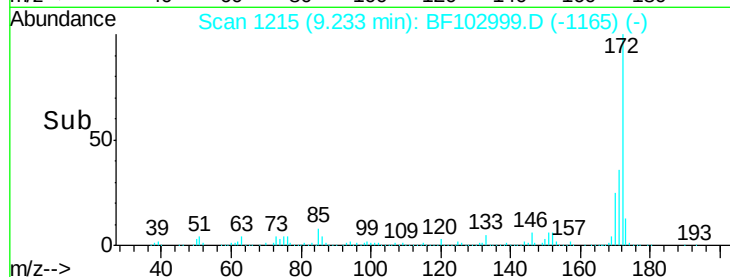
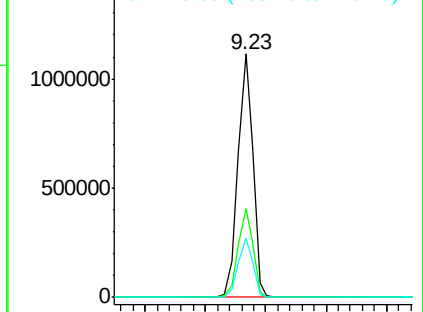
Tot Ion:	172	Resp:	974869
Ion Ratio	Lower	Upper	
172	100		
171	36.4	29.7	44.5
170	24.5	19.6	29.4

Manual Integrations
APPROVED

Sohil
2/15/2018 11:06:37 AM

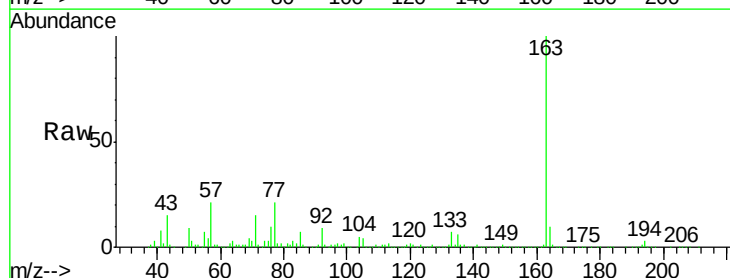


Abundance Ion 172.00 (171.70 to 172.70): E
Ion 171.00 (170.70 to 171.70): E
Ion 170.00 (169.70 to 170.70): E

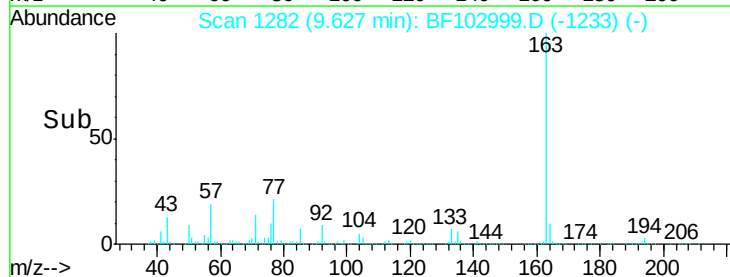
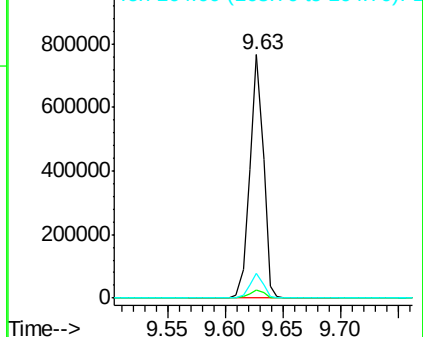


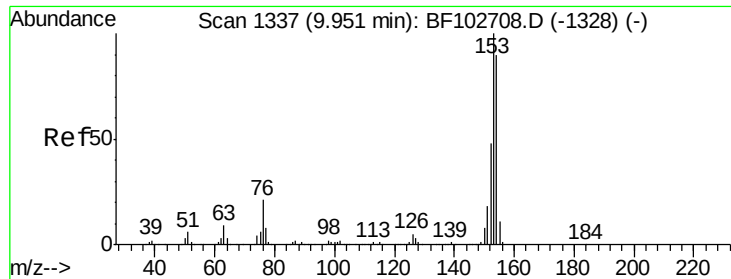
#49
Dimethylphthalate
Concen: 32.138 ng
RT: 9.63 min Scan# 1282
Delta R.T. -0.01 min
Lab File: BF102999.D
Acq: 14 Feb 2018 19:40

Tgt Ion:	163	Resp:	621685
Ion Ratio	Lower	Upper	
163	100		
194	3.4	2.7	4.1
164	10.3	8.2	12.2



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: 7.010 ng

RT: 9.95 min Scan# 1337

Delta R.T. 0.00 min

Lab File: BF102999.D

Acq: 14 Feb 2018 19:40

Instrument :

BNA_F

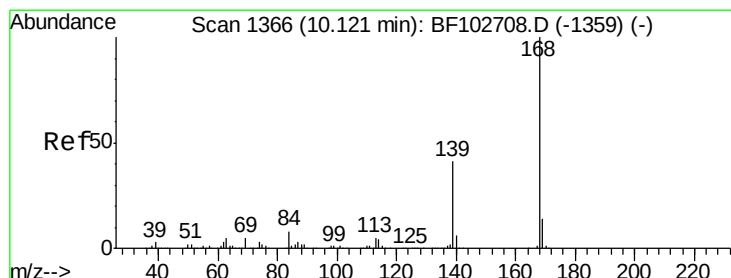
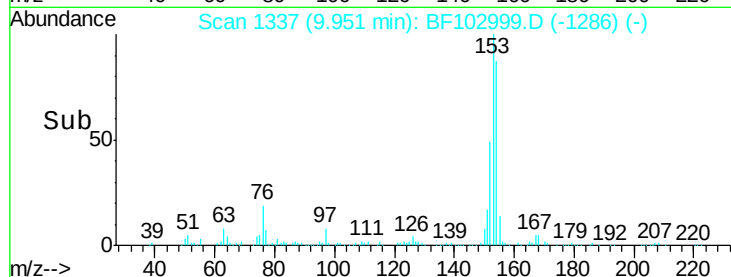
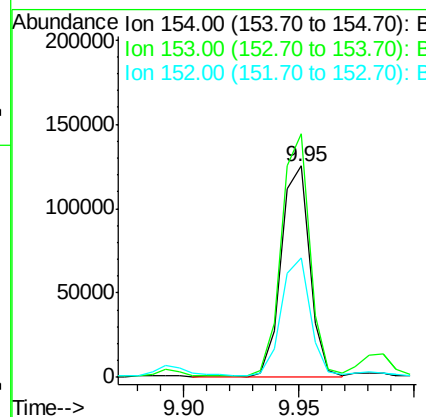
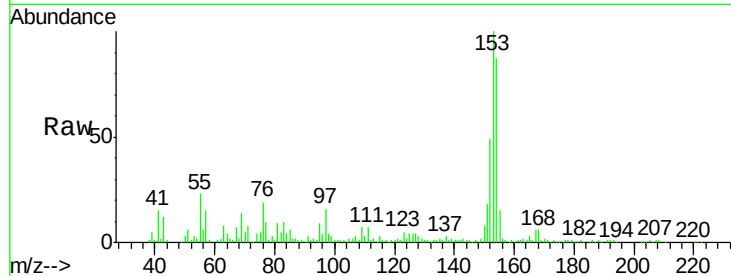
ClientSampleId :

CB-1-SW(4-9)

Tot Ion:	154	Resp:	107119
Ion Ratio	Lower	Upper	
154	100		
153	115.2	91.2	136.8
152	56.6	43.8	65.8

Manual Integrations
APPROVED

Sohil
2/15/2018 11:06:37 AM



#54

Dibenzofuran

Concen: 5.438 ng

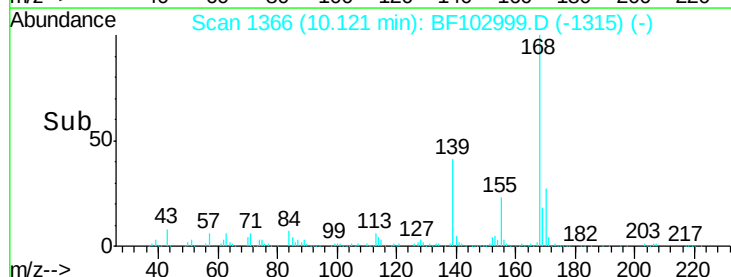
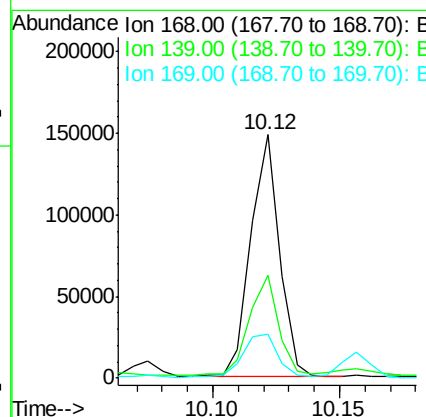
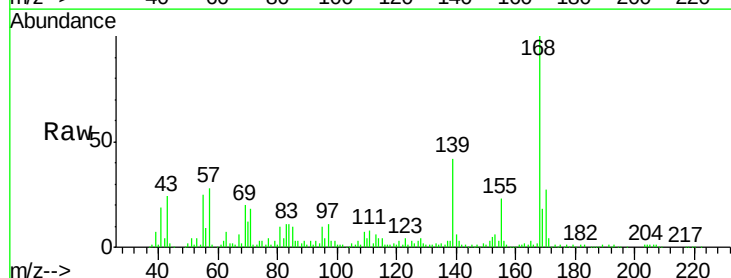
RT: 10.12 min Scan# 1366

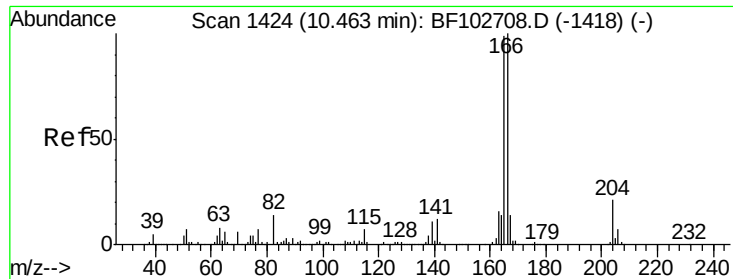
Delta R.T. 0.00 min

Lab File: BF102999.D

Acq: 14 Feb 2018 19:40

Tgt Ion:	168	Resp:	117094
Ion Ratio	Lower	Upper	
168	100		
139	42.1	30.1	45.1
169	18.1	10.9	16.3#





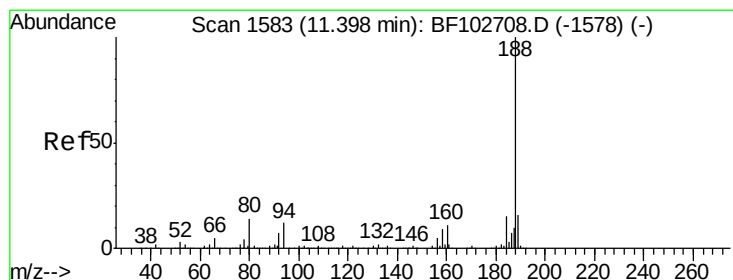
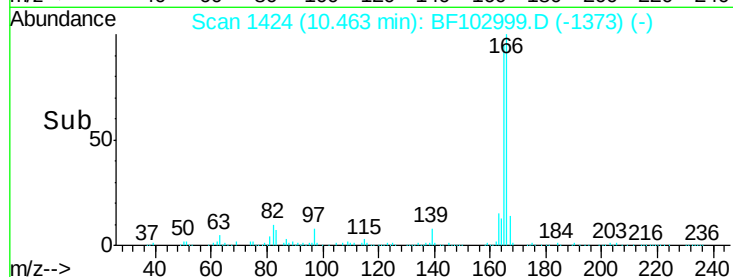
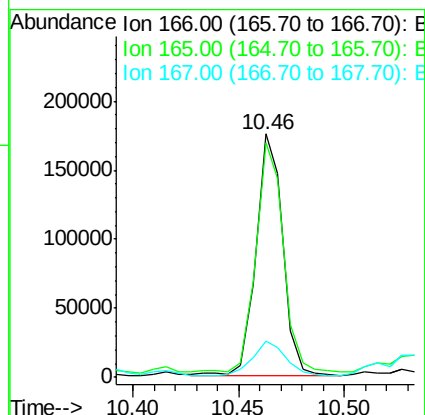
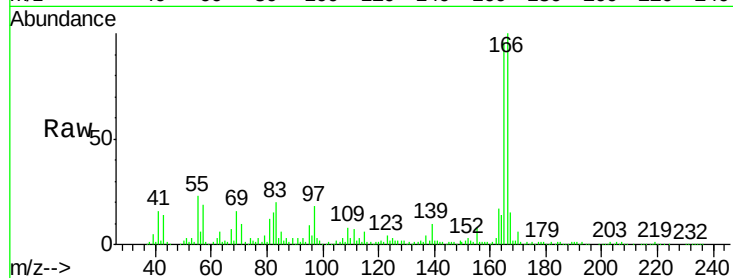
#57
Fluorene
Concen: 9.784 ng
RT: 10.46 min Scan# 1424
Delta R.T. 0.00 min
Lab File: BF102999.D
Acq: 14 Feb 2018 19:40

Instrument :
BNA_F
ClientSampleId :
CB-1-SW(4-9)

Tot Ion	Ratio	Lower	Upper
166	100		
165	96.4	79.8	119.8
167	14.9	10.6	16.0

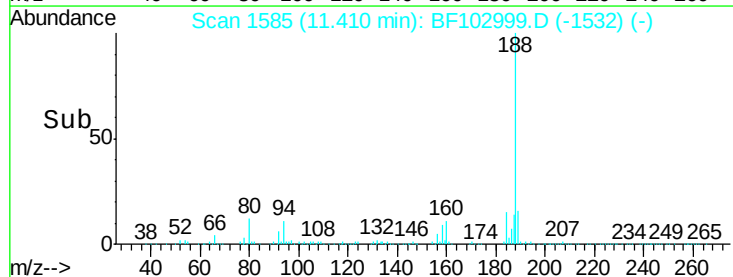
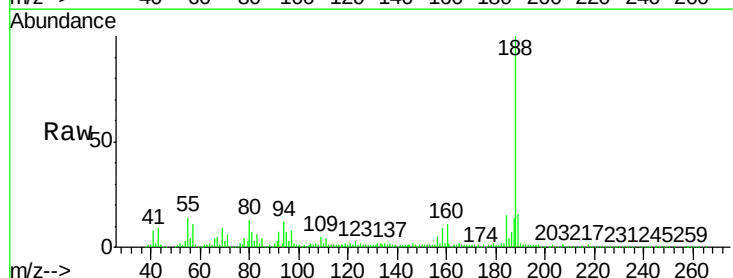
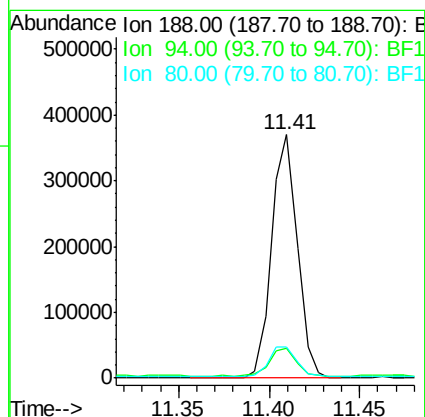
Manual Integrations
APPROVED

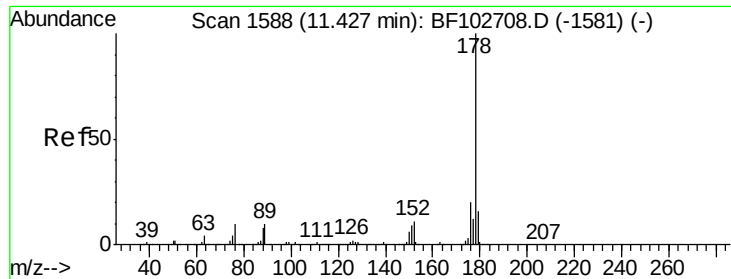
Sohil
2/15/2018 11:06:37 AM



#63
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.41 min Scan# 1585
Delta R.T. 0.01 min
Lab File: BF102999.D
Acq: 14 Feb 2018 19:40

Tgt Ion	Ratio	Lower	Upper
188	100		
94	12.1	8.5	12.7
80	12.8	9.2	13.8





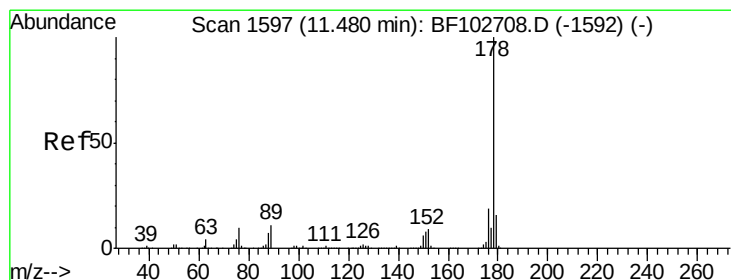
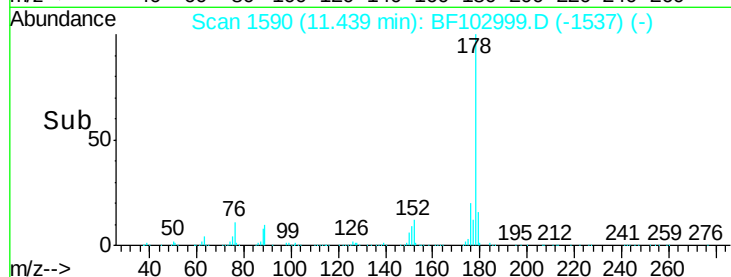
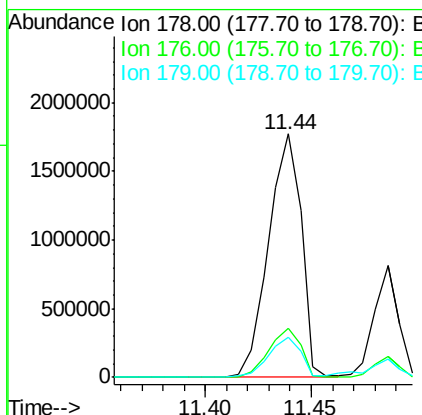
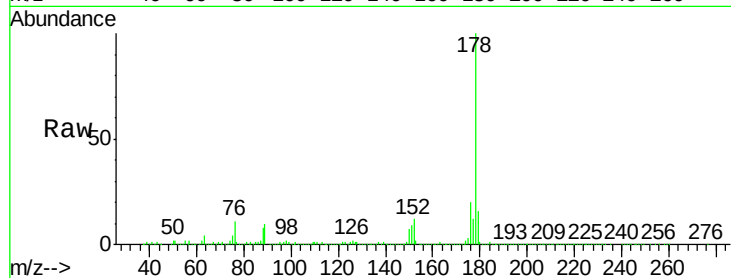
#70
Phenanthrene
Concen: 94.736 ng
RT: 11.44 min Scan# 1590
Delta R.T. 0.01 min
Lab File: BF102999.D
Acq: 14 Feb 2018 19:40

Instrument :
BNA_F
ClientSampleId :
CB-1-SW(4-9)

Tot Ion:178 Resp: 1912556
Ion Ratio Lower Upper
178 100
176 20.4 15.8 23.8
179 16.5 13.0 19.6

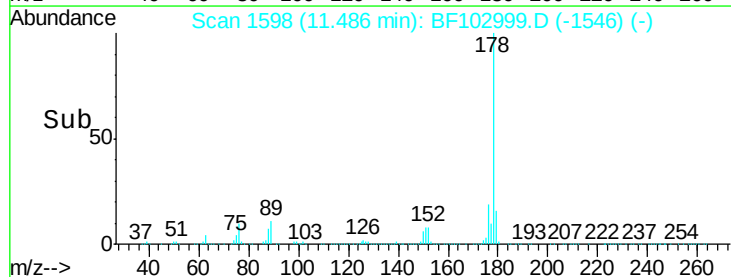
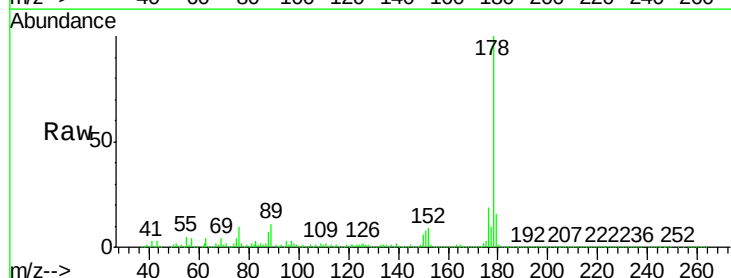
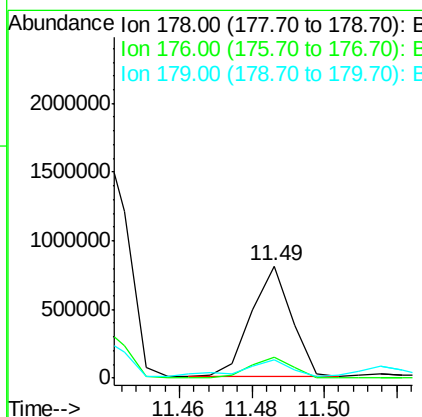
Manual Integrations
APPROVED

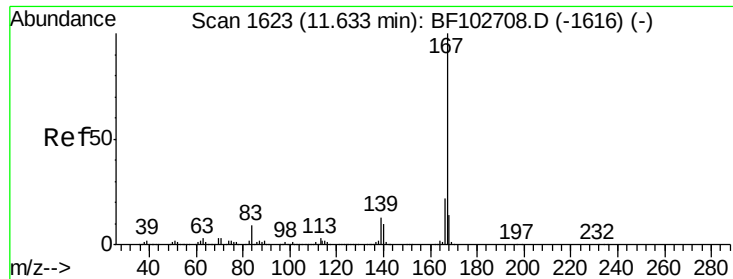
Sohil
2/15/2018 11:06:37 AM



#71
Anthracene
Concen: 31.026 ng
RT: 11.49 min Scan# 1598
Delta R.T. 0.01 min
Lab File: BF102999.D
Acq: 14 Feb 2018 19:40

Tgt Ion:178 Resp: 637061
Ion Ratio Lower Upper
178 100
176 19.1 15.4 23.2
179 16.0 12.6 19.0





#72

Carbazole

Concen: 12.780 ng

RT: 11.64 min Scan# 1624

Delta R.T. 0.01 min

Lab File: BF102999.D

Acq: 14 Feb 2018 19:40

Instrument :

BNA_F

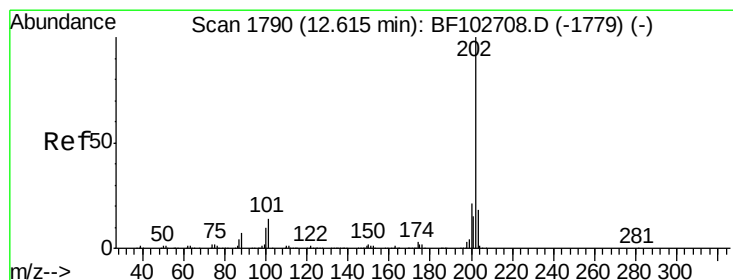
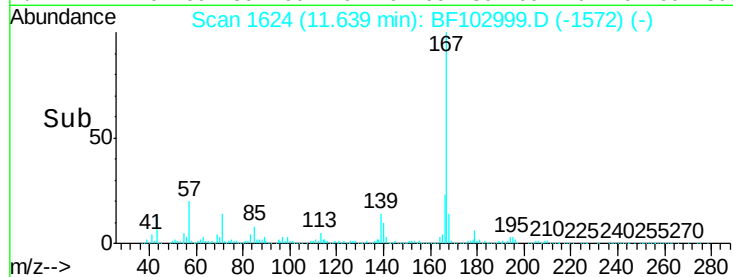
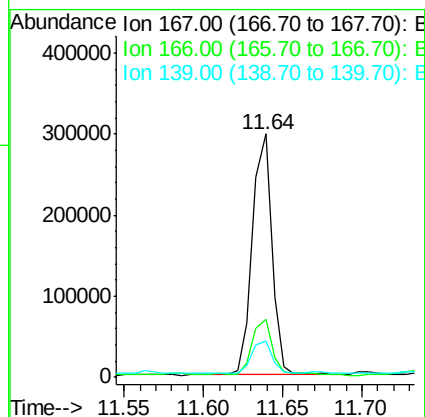
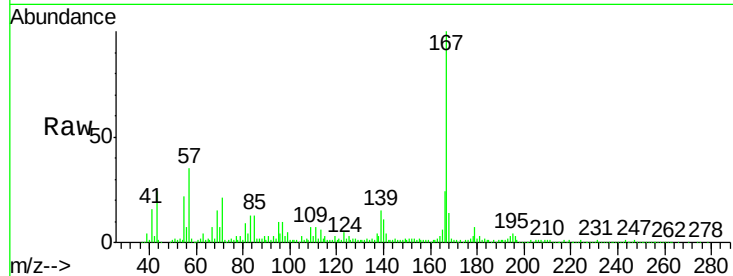
ClientSampleId :

CB-1-SW(4-9)

Tot Ion:	167	Resp:	257083
Ion Ratio	Lower	Upper	
167	100		
166	23.8	17.6	26.4
139	14.7	10.9	16.3

Manual Integrations
APPROVED

Sohil
2/15/2018 11:06:37 AM



#74

Fluoranthene

Concen: 110.500 ng

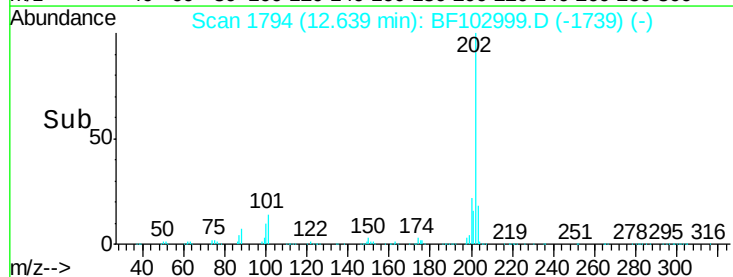
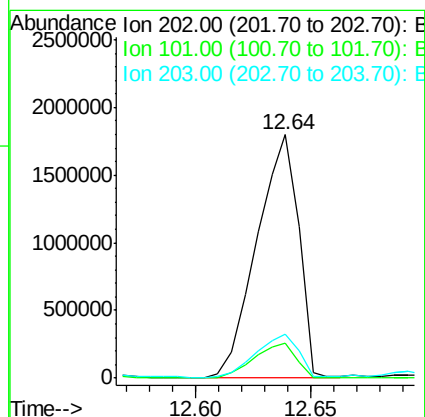
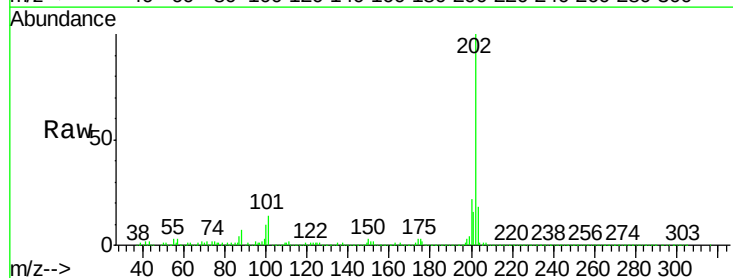
RT: 12.64 min Scan# 1794

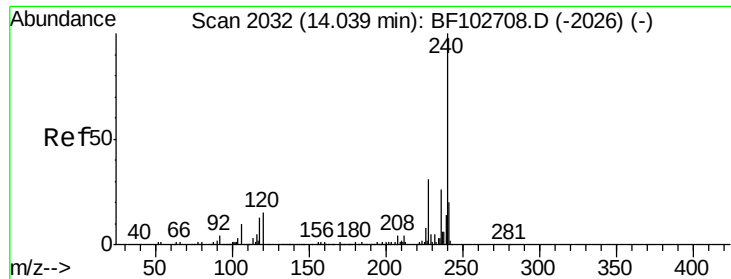
Delta R.T. 0.02 min

Lab File: BF102999.D

Acq: 14 Feb 2018 19:40

Tgt Ion:	202	Resp:	2244444
Ion Ratio	Lower	Upper	
202	100		
101	14.4	0.0	34.1
203	18.2	0.0	38.1





#75

Chrysene-d12

Concen: 20.000 ng

RT: 14.07 min Scan# 2037

Delta R.T. 0.03 min

Lab File: BF102999.D

Acq: 14 Feb 2018 19:40

Instrument :

BNA_F

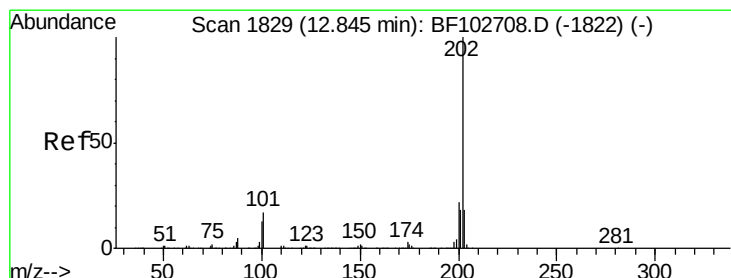
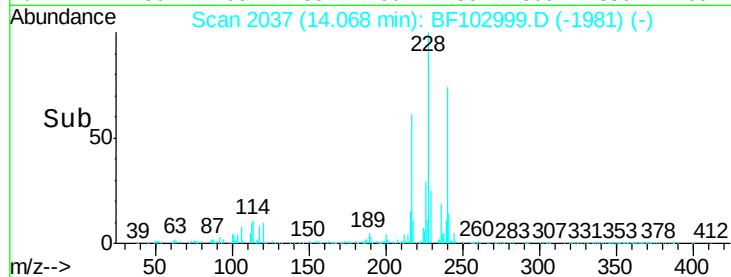
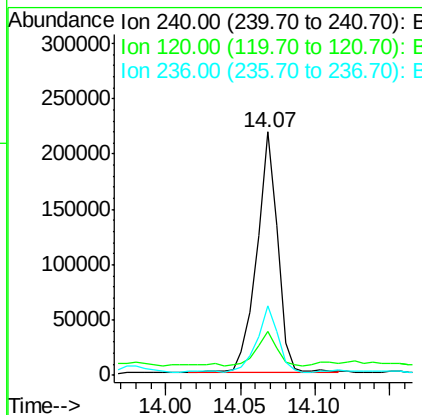
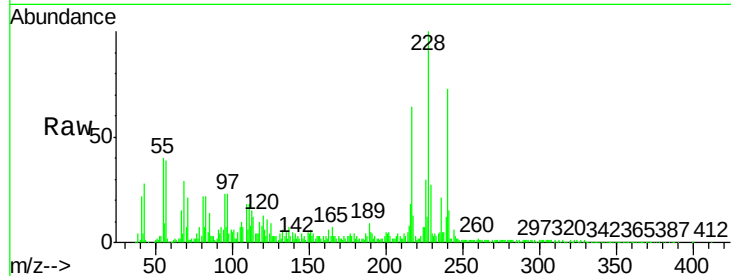
ClientSampleId :

CB-1-SW(4-9)

Tot Ion	Ratio	Lower	Upper
240	100		
120	17.8	9.5	14.3
236	28.6	20.7	31.1

Manual Integrations
APPROVED

Sohil
2/15/2018 11:06:37 AM



#77

Pyrene

Concen: 131.662 ng

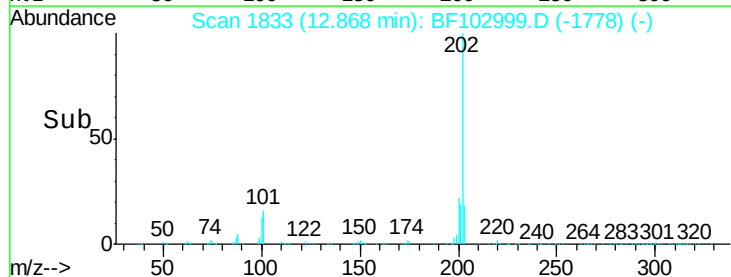
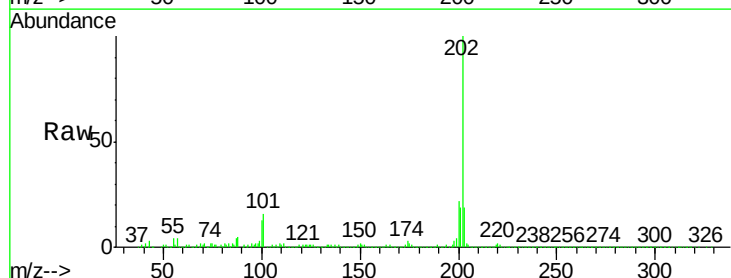
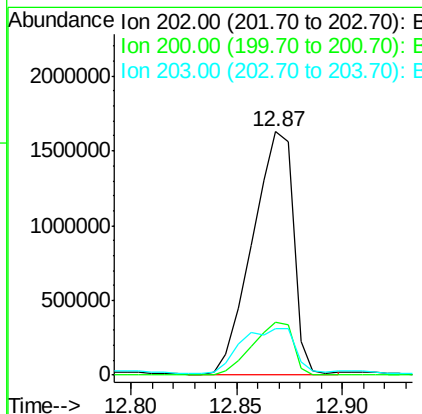
RT: 12.87 min Scan# 1833

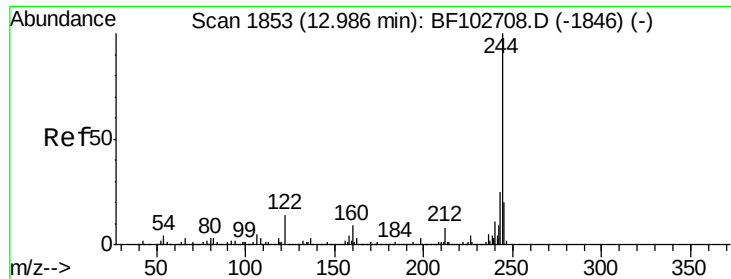
Delta R.T. 0.02 min

Lab File: BF102999.D

Acq: 14 Feb 2018 19:40

Tgt Ion	Ratio	Lower	Upper
202	100		
200	21.6	17.4	26.2
203	18.9	14.3	21.5





#78

Terphenyl-d14

Concen: 69.745 ng

RT: 13.00 min Scan# 1855

Delta R.T. 0.01 min

Lab File: BF102999.D

Acq: 14 Feb 2018 19:40

Instrument :

BNA_F

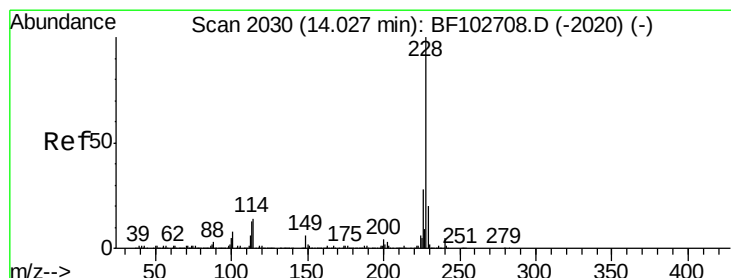
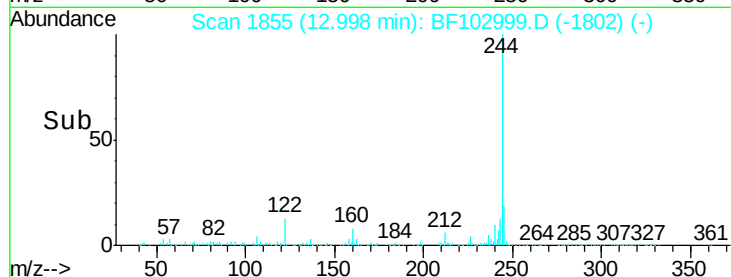
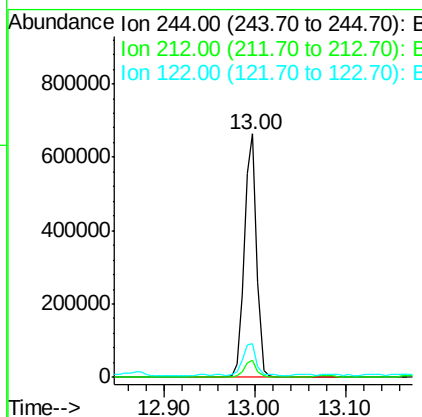
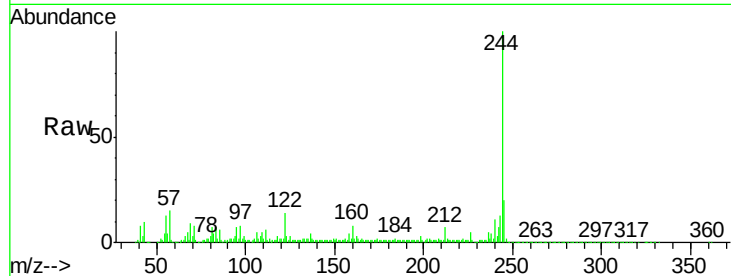
ClientSampleId :

CB-1-SW(4-9)

Tot Ion:	244	Resp:	623780
Ion Ratio	Lower	Upper	
244	100		
212	6.8	5.4	8.0
122	13.8	11.0	16.4

Manual Integrations
APPROVED

Sohil
2/15/2018 11:06:37 AM



#80

Benzo(a)anthracene

Concen: 91.067 ng

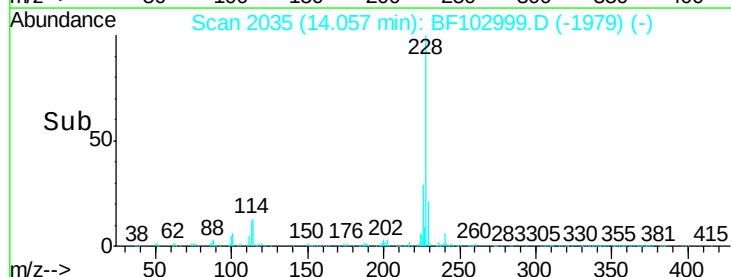
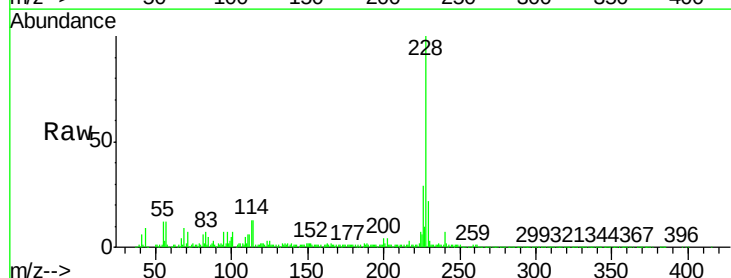
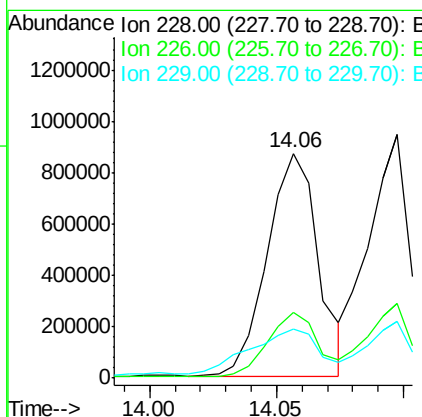
RT: 14.06 min Scan# 2035

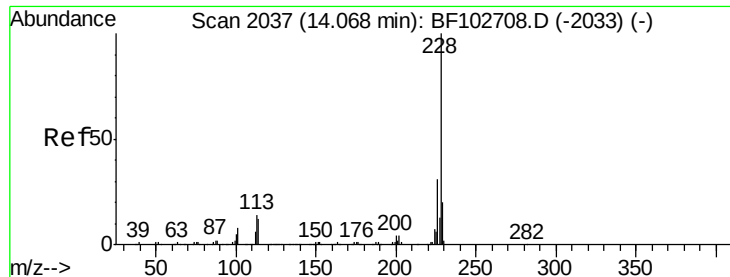
Delta R.T. 0.03 min

Lab File: BF102999.D

Acq: 14 Feb 2018 19:40

Tgt Ion:	228	Resp:	1212841
Ion Ratio	Lower	Upper	
228	100		
226	29.3	22.6	33.8
229	21.7	15.8	23.6





#82

Chrysene

Concen: 78.193 ng

RT: 14.10 min Scan# 2042

Delta R.T. 0.03 min

Lab File: BF102999.D

Acq: 14 Feb 2018 19:40

Instrument :

BNA_F

ClientSampleId :

CB-1-SW(4-9)

Tot Ion:228 Resp: 1049764

Ion Ratio Lower Upper

228 100

226 30.8 25.0 37.6

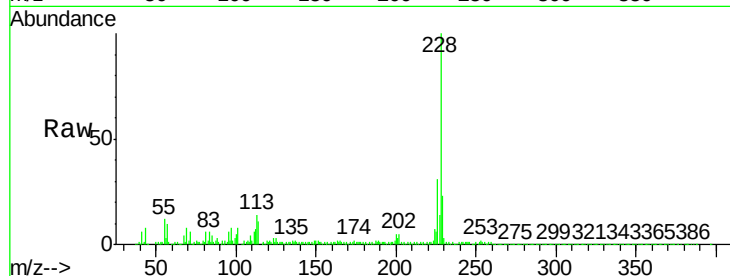
229 23.2 16.2 24.4

Manual Integrations

APPROVED

Sohil

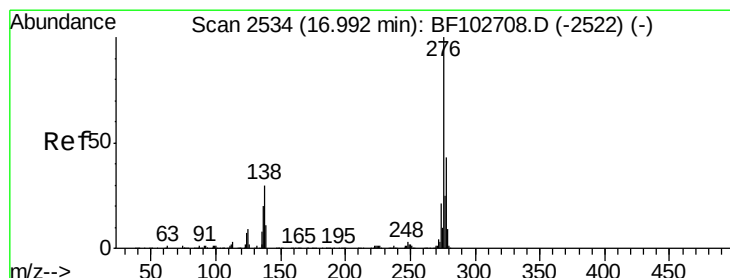
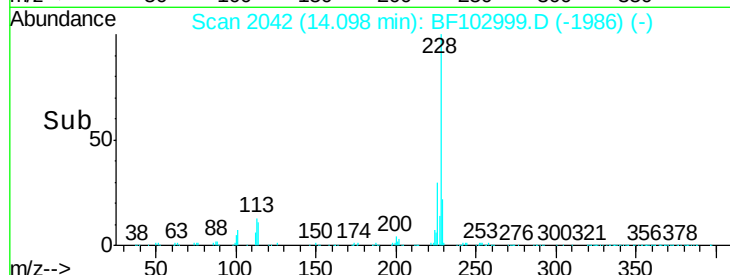
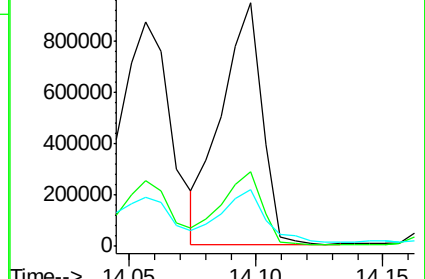
2/15/2018 11:06:37 AM



Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#85

Indeno(1,2,3-cd)pyrene

Concen: 54.515 ng

RT: 17.07 min Scan# 2548

Delta R.T. 0.08 min

Lab File: BF102999.D

Acq: 14 Feb 2018 19:40

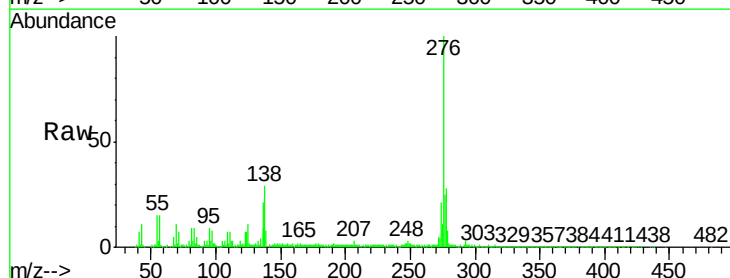
Tgt Ion:276 Resp: 607002

Ion Ratio Lower Upper

276 100

138 26.7 25.0 37.6

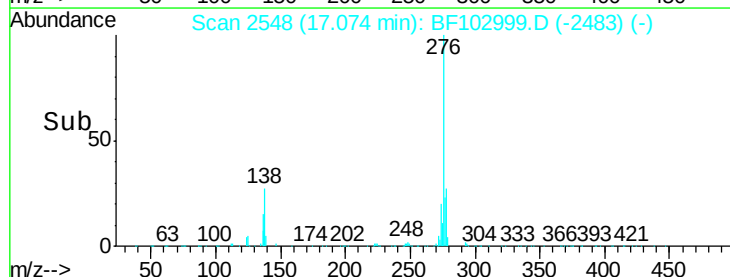
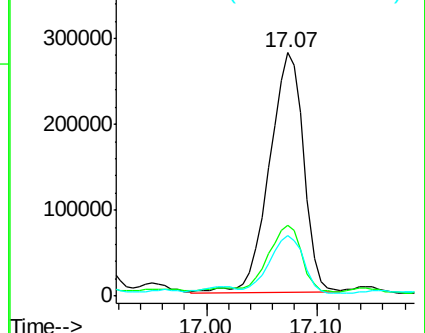
277 23.7 20.1 30.1

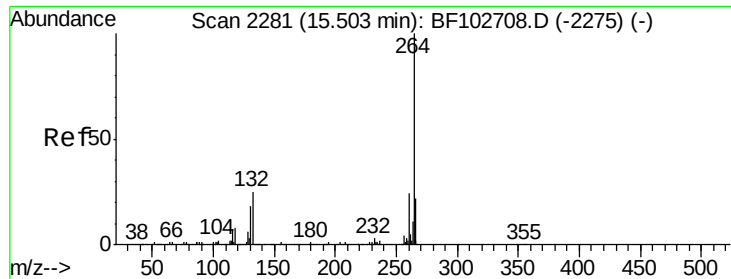


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E





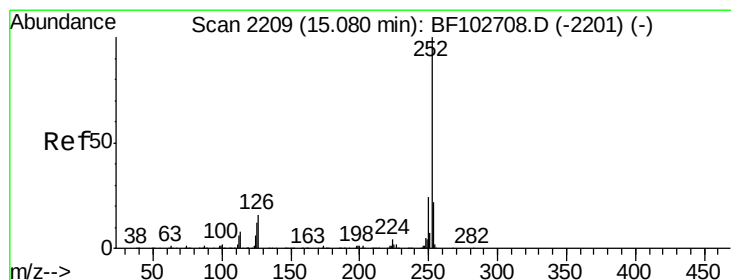
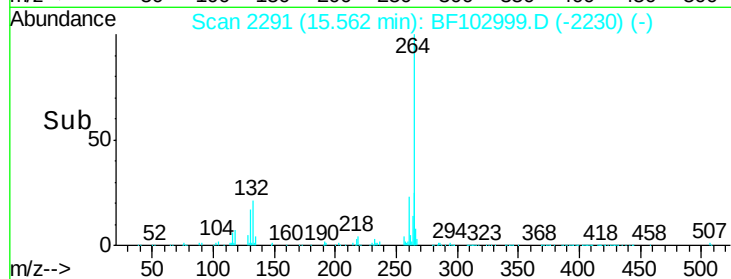
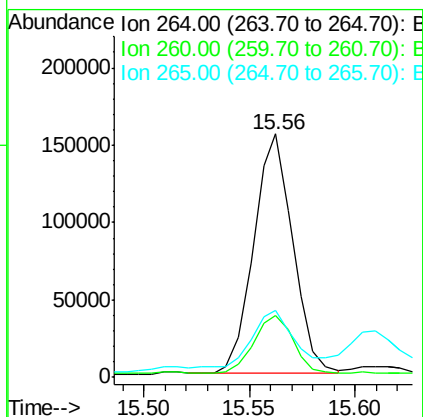
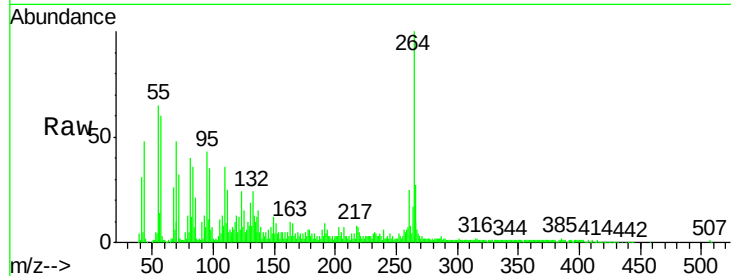
#86
Pervlene-d12
Concen: 20.000 ng
RT: 15.56 min Scan# 2291
Delta R.T. 0.06 min
Lab File: BF102999.D
Acq: 14 Feb 2018 19:40

Instrument :
BNA_F
ClientSampleId :
CB-1-SW(4-9)

Tot Ion	Ratio	Lower	Upper
264	100		
260	25.4	19.2	28.8
265	27.3	17.5	26.3

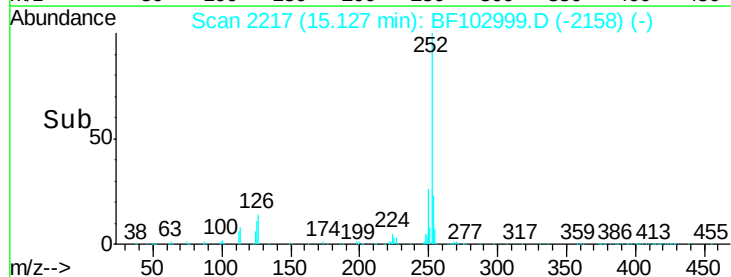
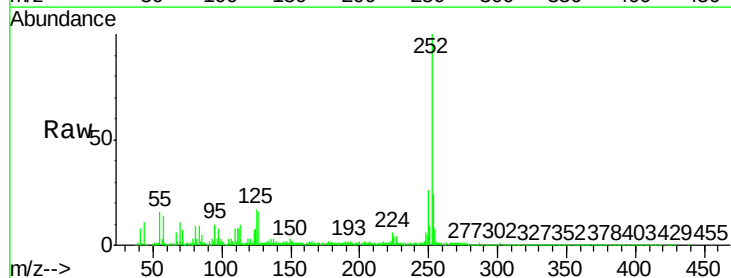
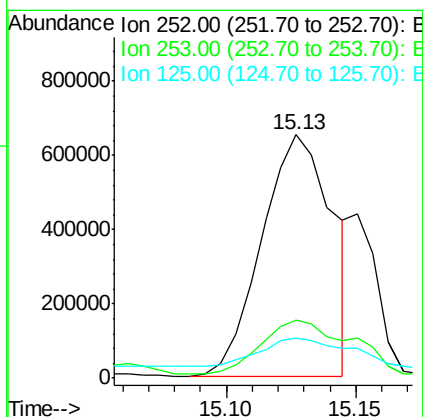
Manual Integrations
APPROVED

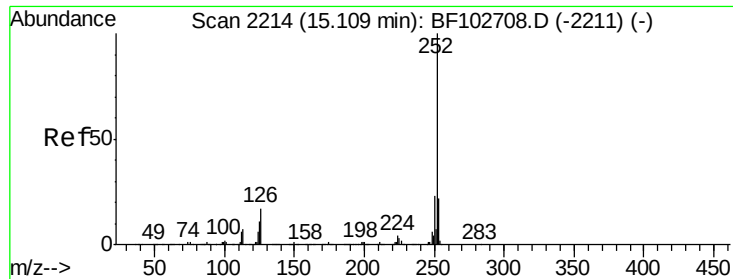
Sohil
2/15/2018 11:06:37 AM



#87
Benzo(b)fluoranthene
Concen: 96.165 ng m
RT: 15.13 min Scan# 2217
Delta R.T. 0.05 min
Lab File: BF102999.D
Acq: 14 Feb 2018 19:40

Tgt Ion	Ratio	Lower	Upper
252	100		
253	24.0	17.0	25.6
125	16.7	9.0	13.6





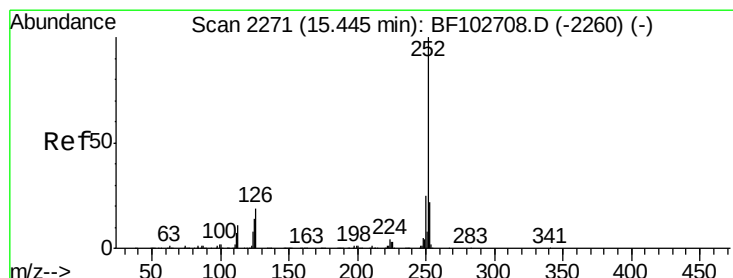
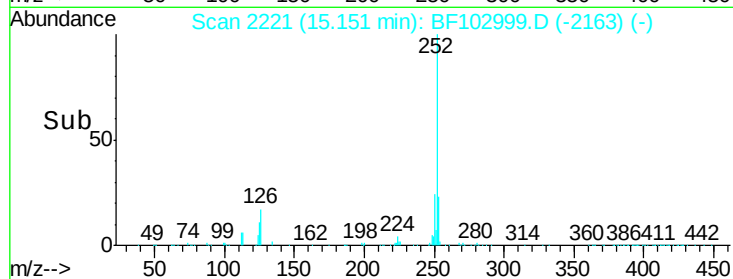
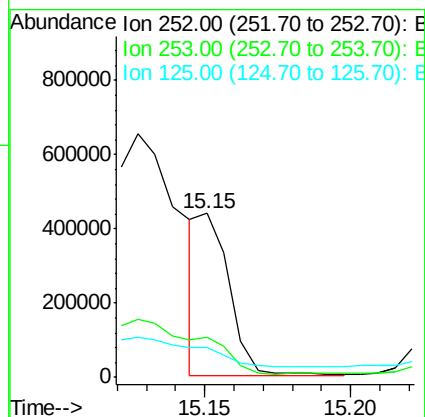
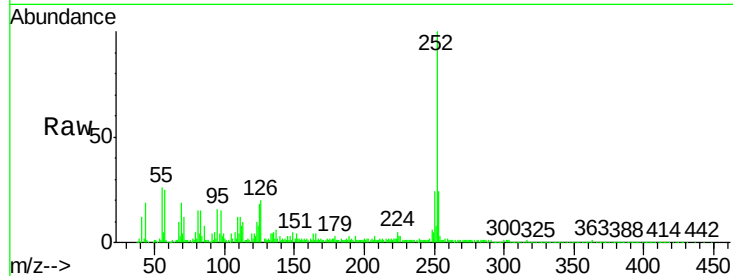
#88
Benzo(k)fluoranthene
Concen: 25.980 ng m
RT: 15.15 min Scan# 2221
Delta R.T. 0.04 min
Lab File: BF102999.D
Acq: 14 Feb 2018 19:40

Instrument :
BNA_F
ClientSampleId :
CB-1-SW(4-9)

Tot Ion	Ratio	Lower	Upper
252	100		
253	24.2	17.9	26.9
125	18.2	10.2	15.2

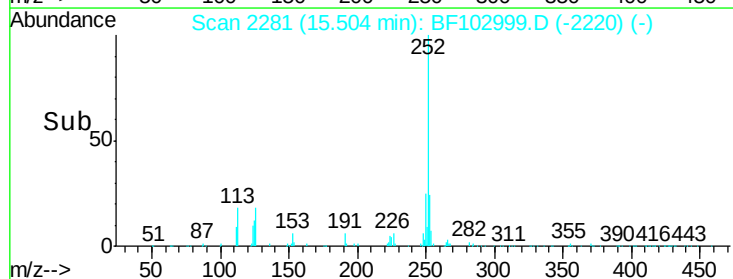
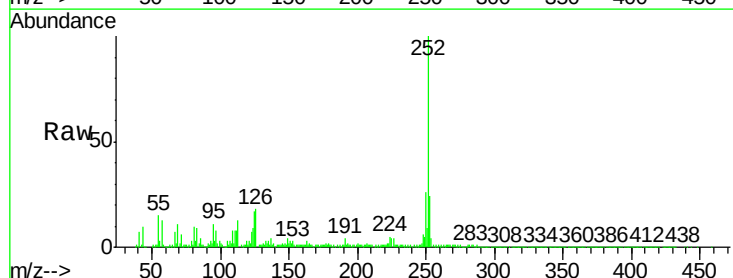
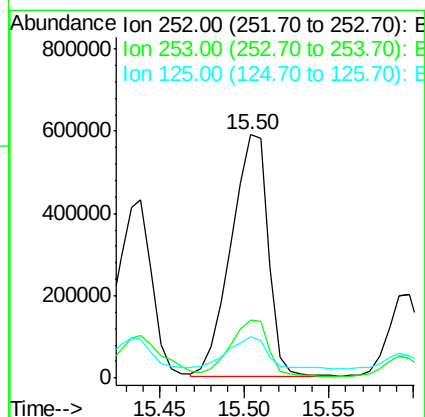
Manual Integrations
APPROVED

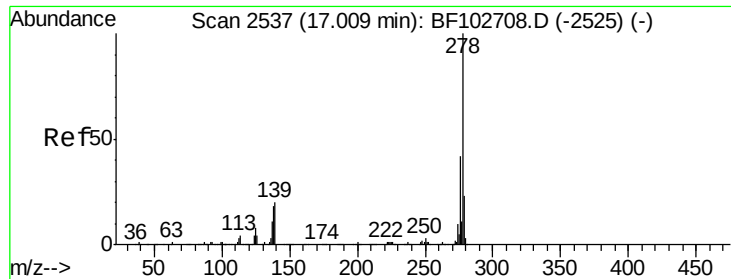
Sohil
2/15/2018 11:06:37 AM



#89
Benzo(a)pyrene
Concen: 77.229 ng
RT: 15.50 min Scan# 2281
Delta R.T. 0.06 min
Lab File: BF102999.D
Acq: 14 Feb 2018 19:40

Tgt Ion	Ratio	Lower	Upper
252	100		
253	24.1	17.1	25.7
125	17.1	9.8	14.6





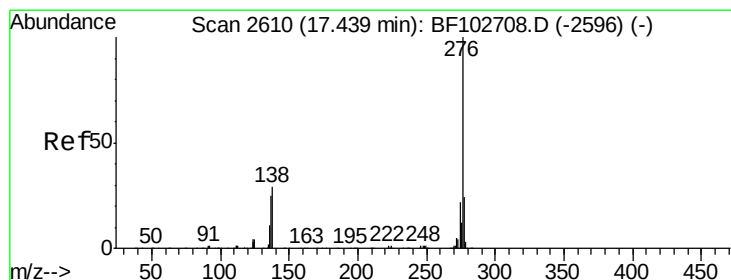
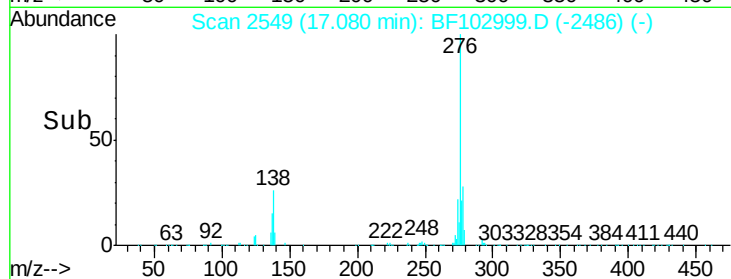
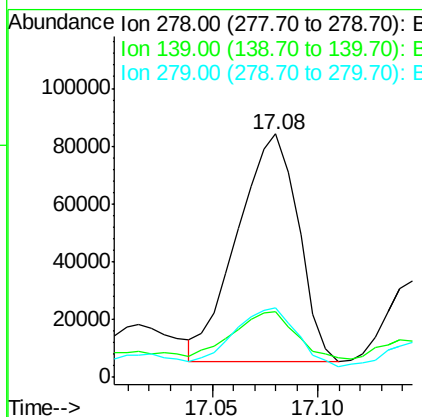
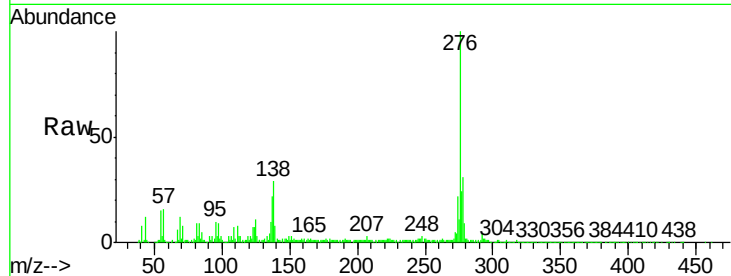
#90
Dibenzo(a,h)anthracene
Concen: 16.644 ng
RT: 17.08 min Scan# 2549
Delta R.T. 0.07 min
Lab File: BF102999.D
Acq: 14 Feb 2018 19:40

Instrument :
BNA_F
ClientSampleId :
CB-1-SW(4-9)

Tot Ion	Ratio	Lower	Upper
278	100		
139	26.8	15.9	23.9#
279	28.7	19.0	28.4#

Manual Integrations
APPROVED

Sohil
2/15/2018 11:06:37 AM



#91
Benzo(g,h,i)perylene
Concen: 62.291 ng
RT: 17.54 min Scan# 2627
Delta R.T. 0.10 min
Lab File: BF102999.D
Acq: 14 Feb 2018 19:40

Tgt Ion	Ratio	Lower	Upper
276	100		
277	24.3	17.9	26.9
138	28.4	21.8	32.8

