

Data Path : Z:\HPCHEM1\BNA F\DATA\BF032818\
 Data File : BF104039.D
 Acq On : 29 Mar 2018 7:46
 Operator : JU/SJ
 Sample : J2073-01DL 2X
 Misc :
 ALS Vial : 32 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 A2 SB16 W 8DL

Manual Integrations
 APPROVED

Sohil
 3/29/2018 5:37:56 PM

Quant Time: Mar 29 12:56:39 2018
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF032818.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Mar 28 13:41:47 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.96	152	126615	20.00	ng	0.00
21) Naphthalene-d8	8.25	136	510731	20.00	ng	0.00
38) Acenaphthene-d10	10.00	164	203197	20.00	ng	0.00
63) Phenanthrene-d10	11.50	188	298132	20.00	ng	0.00
75) Chrysene-d12	14.16	240	245639	20.00	ng	0.00
86) Perylene-d12	15.70	264	179316	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.59	112	343122	43.22	ng	0.00
7) Phenol-d6	6.60	99	494911	50.67	ng	0.00
23) Nitrobenzene-d5	7.53	82	275969	33.04	ng	0.00
41) 2,4,6-Tribromophenol	10.80	330	80643	35.64	ng	0.00
44) 2-Fluorobiphenyl	9.32	172	353868	27.46	ng	0.00
78) Terphenyl-d14	13.08	244	234920	22.08	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	8.27	128	393699	15.779	ng	99
37) 2-Methylnaphthalene	8.96	142	62437	3.799	ng	97
48) Acenaphthylene	9.87	152	190673	9.149	ng	98
49) Dimethylphthalate	9.71	163	61067	3.806	ng	99
51) Acenaphthene	10.03	154	56679	4.701	ng	99
54) Dibenzofuran	10.21	168	63457	3.604	ng	97
57) Fluorene	10.56	166	87149m	6.001	ng	
70) Phenanthrene	11.53	178	572247	35.453	ng	98
71) Anthracene	11.58	178	229819	13.631	ng	99
72) Carbazole	11.74	167	39860	2.477	ng	98
74) Fluoranthene	12.73	202	857770	49.994	ng	98
77) Pyrene	12.96	202	805091	45.594	ng	99
80) Benzo(a)anthracene	14.14	228	472201	30.722	ng	97
82) Chrysene	14.19	228	422298	28.052	ng	98
85) Indeno(1,2,3-cd)pyrene	17.29	276	170708m	10.943	ng	
87) Benzo(b)fluoranthene	15.24	252	436783m	40.024	ng	
88) Benzo(k)fluoranthene	15.27	252	156114m	15.186	ng	
89) Benzo(a)pyrene	15.64	252	316250	31.272	ng	98
90) Dibenz(a,h)anthracene	17.29	278	38449	4.112	ng	# 92
91) Benzo(a,h,i)perylene	17.77	276	151261	16.151	ng	96

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

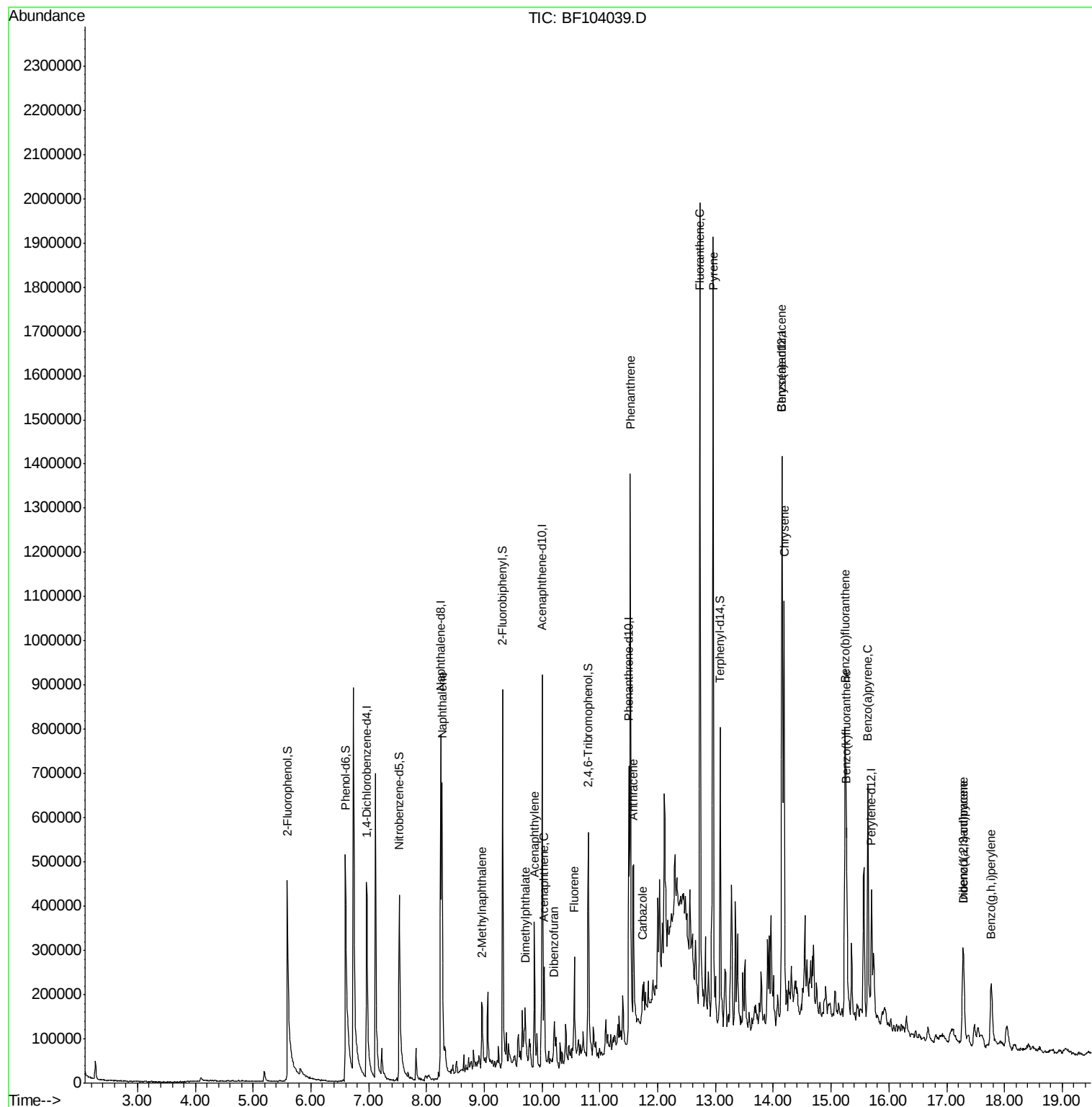
Data Path : Z:\HPCHEM1\BNA F\DATA\BF032818\
Data File : BF104039.D
Acq On : 29 Mar 2018 7:46
Operator : JU/SJ
Sample : J2073-01DL 2X
Misc :
ALS Vial : 32 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
A2 SB16 W 8DL

Manual Integrations
APPROVED

Sohil
3/29/2018 5:37:56 PM

Quant Time: Mar 29 12:56:39 2018
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF032818.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Mar 28 13:41:47 2018
Response via : Initial Calibration





#1

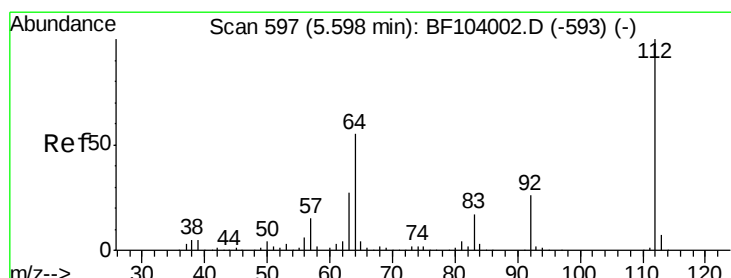
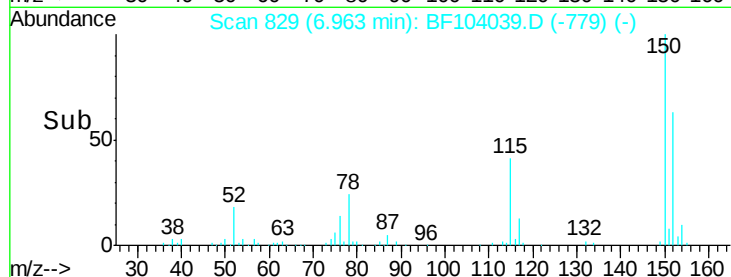
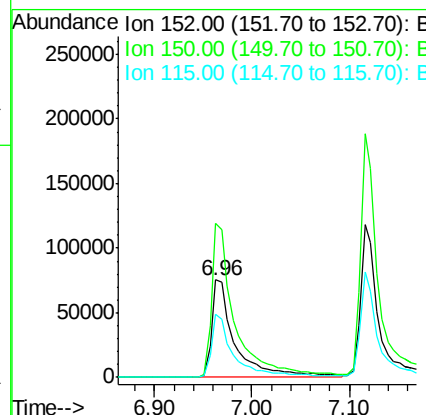
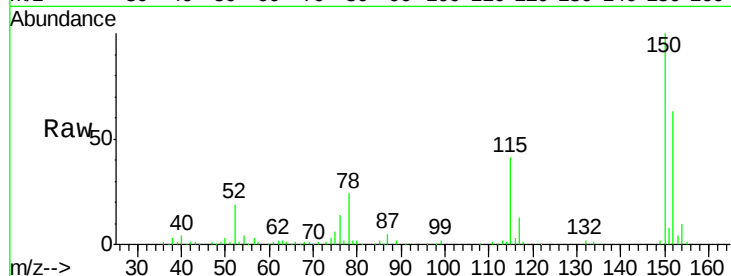
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.96 min Scan# 829
Delta R.T. -0.01 min
Lab File: BF104039.D
Acq: 29 Mar 2018 7:46

Instrument :
BNA_F
ClientSampleId :
A2_SB16_W_8DL

Tot Ion	Ratio	Lower	Upper
152	100		
150	158.7	124.6	186.8
115	65.1	50.1	75.1

Manual Integrations
APPROVED

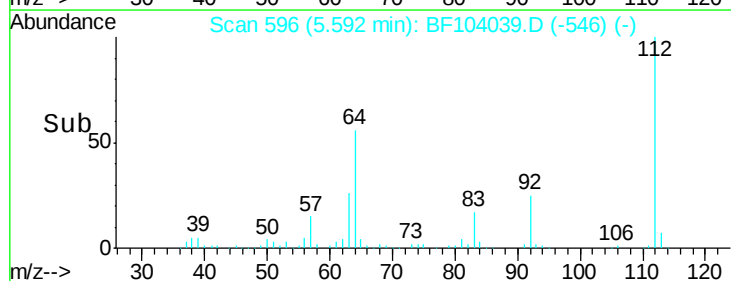
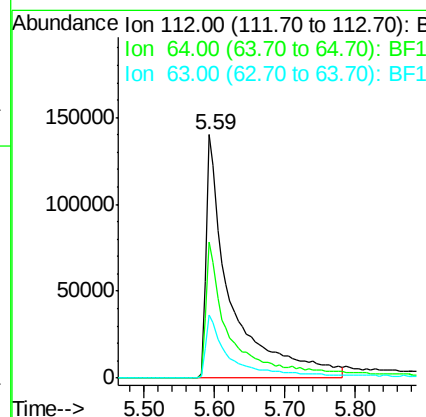
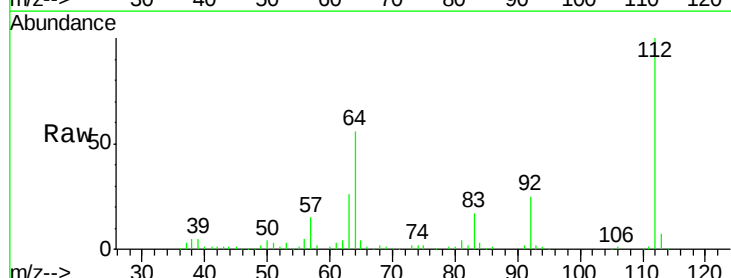
Sohil
3/29/2018 5:37:56 PM

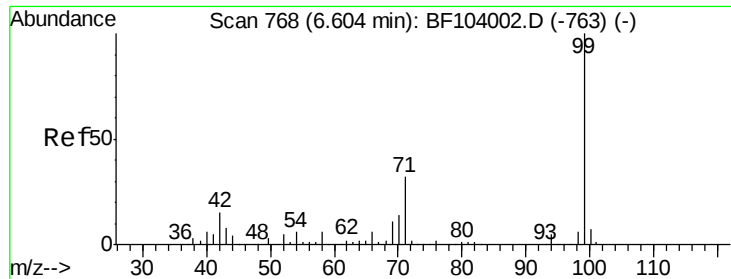


#5

2-Fluorophenol
Concen: 43.217 ng
RT: 5.59 min Scan# 596
Delta R.T. -0.01 min
Lab File: BF104039.D
Acq: 29 Mar 2018 7:46

Tgt Ion	Ratio	Lower	Upper
112	100		
64	56.1	47.9	71.9
63	25.9	23.7	35.5





#7

Phenol-d6

Concen: 50.667 ng

RT: 6.60 min Scan# 767

Delta R.T. -0.01 min

Lab File: BF104039.D

Acq: 29 Mar 2018 7:46

Instrument :

BNA_F

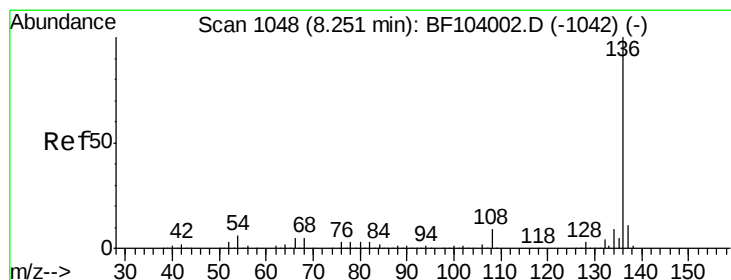
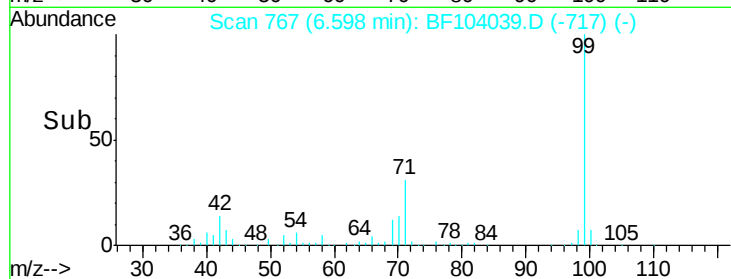
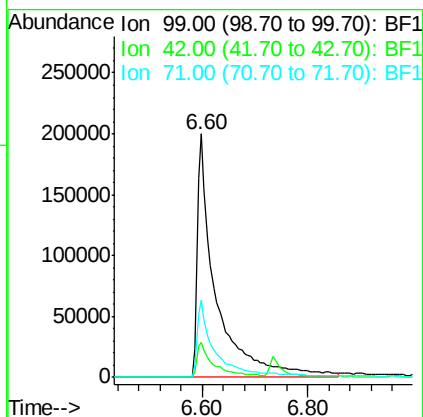
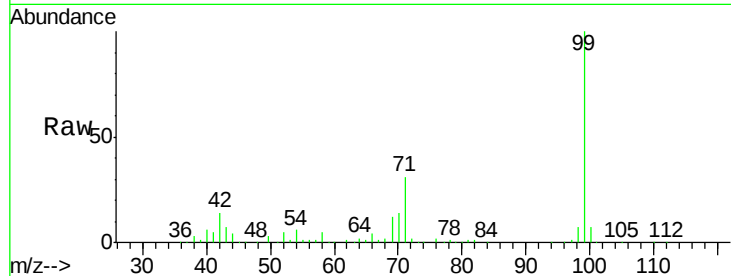
ClientSampleId :

A2_SB16_W_8DL

Tot Ion:	99	Resp:	494911
Ion Ratio	Lower	Upper	
99	100		
42	14.2	14.5	21.7#
71	31.5	25.4	38.0

Manual Integrations
APPROVED

Sohil
3/29/2018 5:37:56 PM



#21

Naphthalene-d8

Concen: 20.000 ng

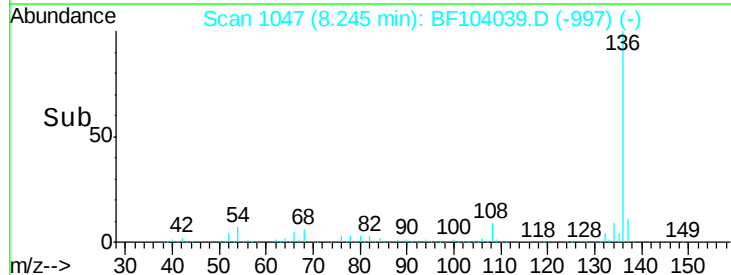
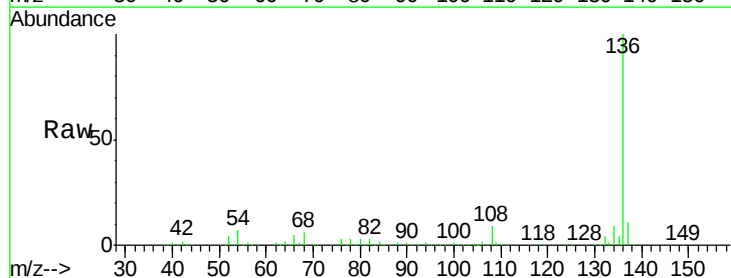
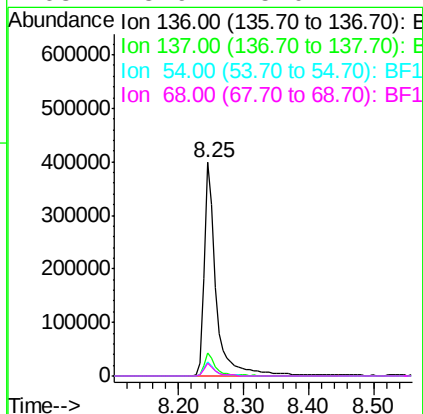
RT: 8.25 min Scan# 1047

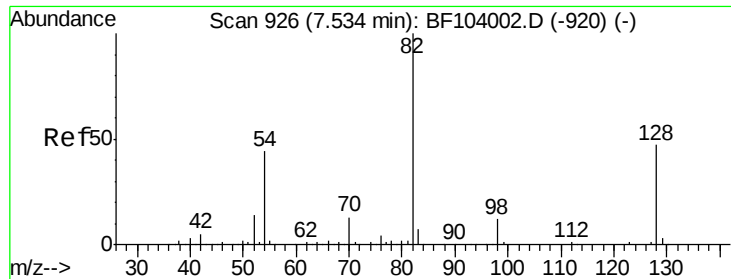
Delta R.T. -0.01 min

Lab File: BF104039.D

Acq: 29 Mar 2018 7:46

Tgt Ion:	136	Resp:	510731
Ion Ratio	Lower	Upper	
136	100		
137	11.0	8.9	13.3
54	6.8	6.6	9.8
68	5.9	5.0	7.4





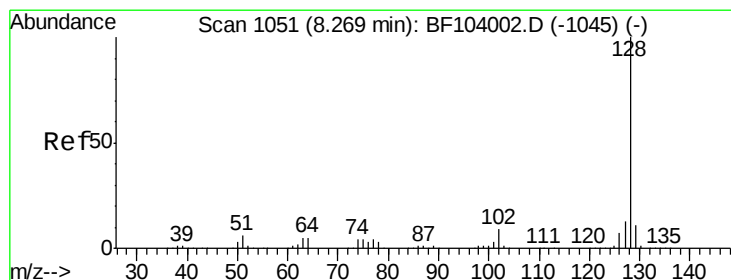
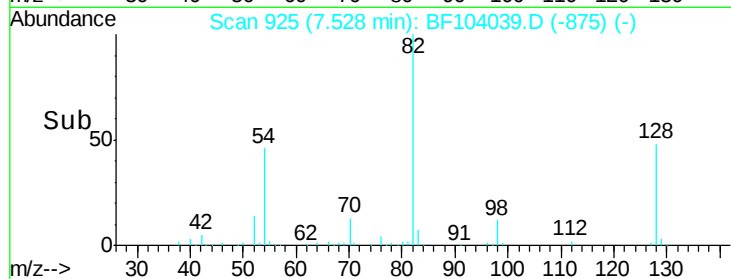
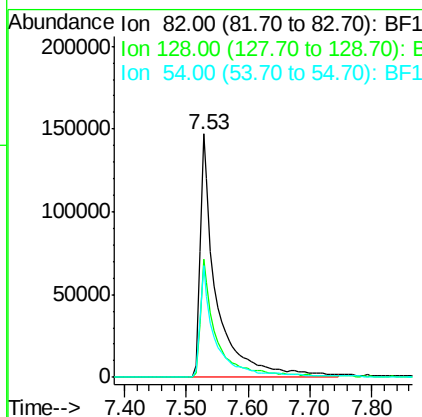
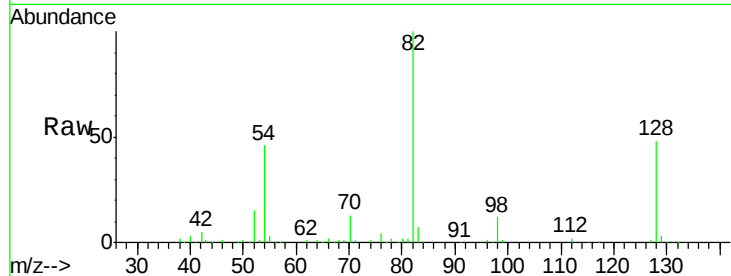
#23
Nitrobenzene-d5
Concen: 33.045 ng
RT: 7.53 min Scan# 925
Delta R.T. -0.01 min
Lab File: BF104039.D
Acq: 29 Mar 2018 7:46

Instrument :
BNA_F
ClientSampleId :
A2_SB16_W_8DL

Tot Ion	Ratio	Lower	Upper
82	100		
128	48.3	36.1	54.1
54	45.9	41.4	62.2

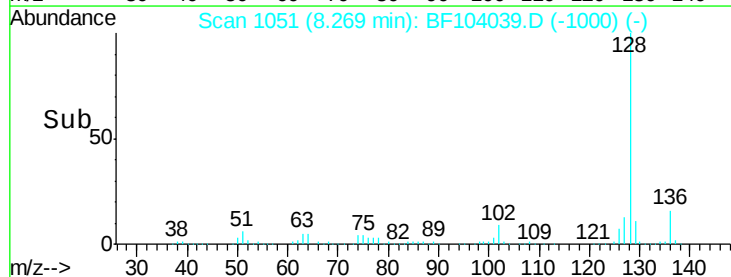
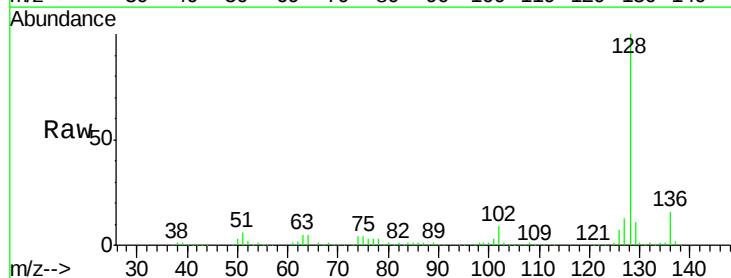
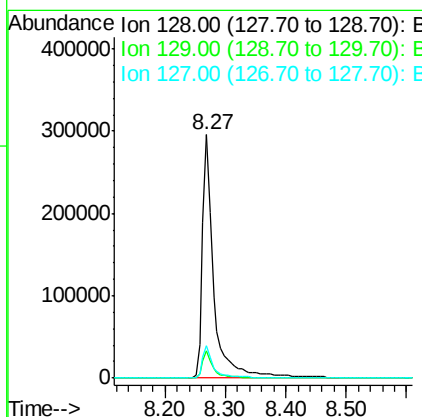
Manual Integrations
APPROVED

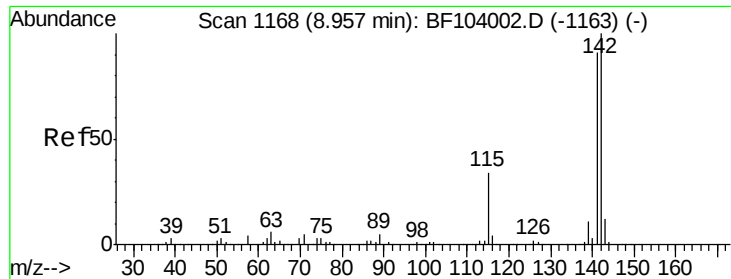
Sohil
3/29/2018 5:37:56 PM



#31
Naphthalene
Concen: 15.779 ng
RT: 8.27 min Scan# 1051
Delta R.T. -0.00 min
Lab File: BF104039.D
Acq: 29 Mar 2018 7:46

Tgt Ion	Ratio	Lower	Upper
128	100		
129	11.3	8.8	13.2
127	13.1	10.9	16.3





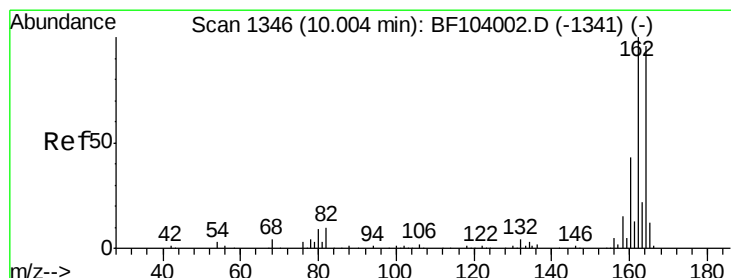
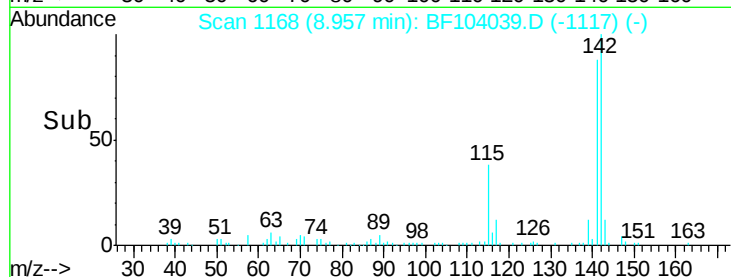
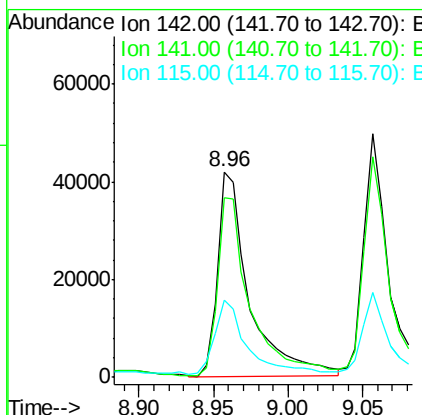
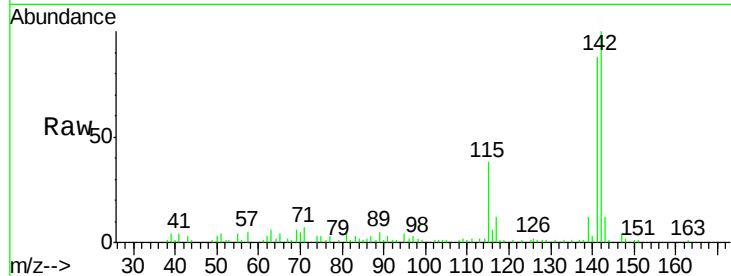
#37
2-Methylnaphthalene
Concen: 3.799 ng
RT: 8.96 min Scan# 1168
Delta R.T. -0.00 min
Lab File: BF104039.D
Acq: 29 Mar 2018 7:46

Instrument :
BNA_F
ClientSampleId :
A2_SB16_W_8DL

Tot Ion	Ratio	Lower	Upper
142	100		
141	87.5	70.8	106.2
115	37.7	26.1	39.1

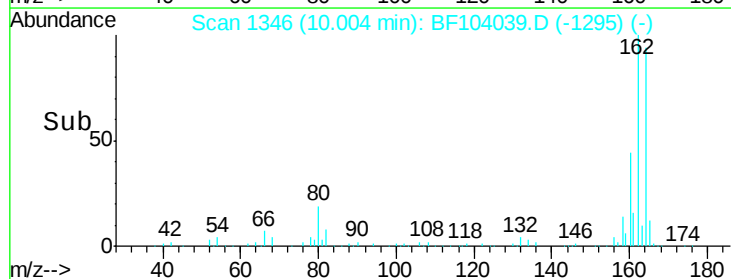
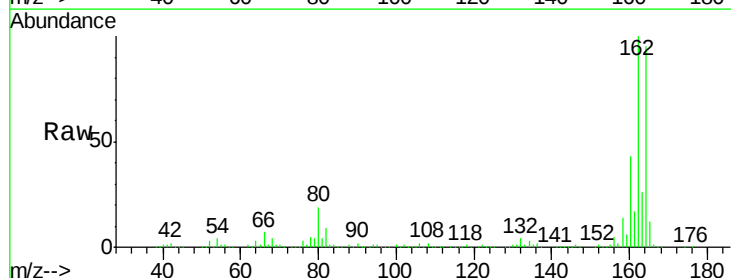
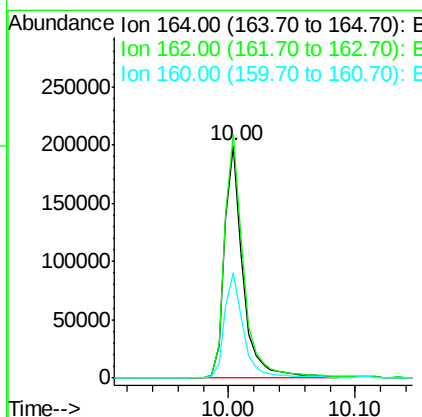
Manual Integrations
APPROVED

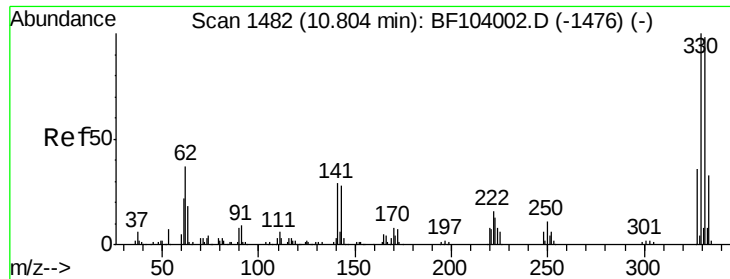
Sohil
3/29/2018 5:37:56 PM



#38
Acenaphthene-d10
Concen: 20.000 ng
RT: 10.00 min Scan# 1346
Delta R.T. -0.00 min
Lab File: BF104039.D
Acq: 29 Mar 2018 7:46

Tgt Ion	Ratio	Lower	Upper
164	100		
162	104.8	86.1	129.1
160	45.4	38.3	57.5





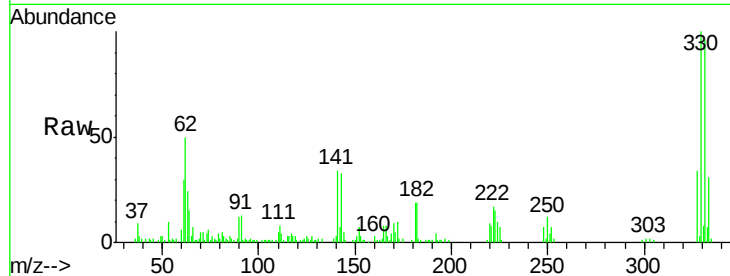
#41
 2,4,6-Tribromophenol
 Concen: 35.642 ng
 RT: 10.80 min Scan# 1481
 Delta R.T. -0.01 min
 Lab File: BF104039.D
 Acq: 29 Mar 2018 7:46

Instrument :
 BNA_F
 ClientSampleId :
 A2_SB16_W_8DL

Tot Ion	Ratio	Lower	Upper
330	100		
332	97.6	77.0	115.6
141	32.0	29.9	44.9

Manual Integrations
 APPROVED

Sohil
 3/29/2018 5:37:56 PM

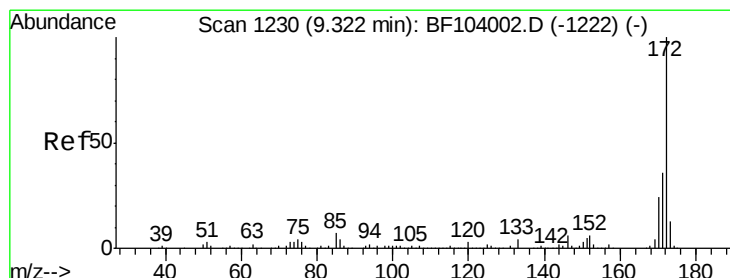
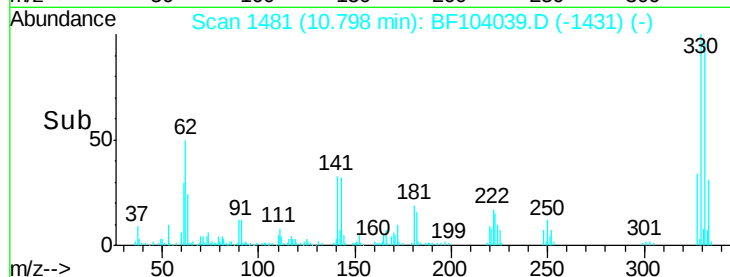
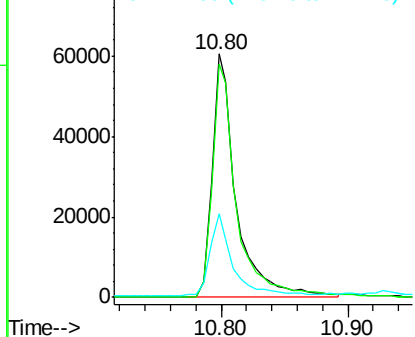


Abundance

Ion 329.80 (329.50 to 330.50): E

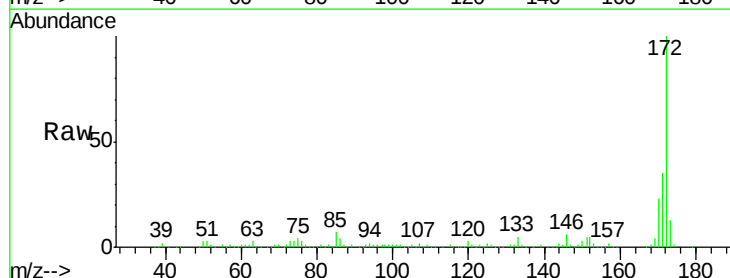
Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E



#44
 2-Fluorobiphenyl
 Concen: 27.462 ng
 RT: 9.32 min Scan# 1229
 Delta R.T. -0.01 min
 Lab File: BF104039.D
 Acq: 29 Mar 2018 7:46

Tgt Ion	Ratio	Lower	Upper
172	100		
171	34.9	29.7	44.5
170	23.1	19.6	29.4

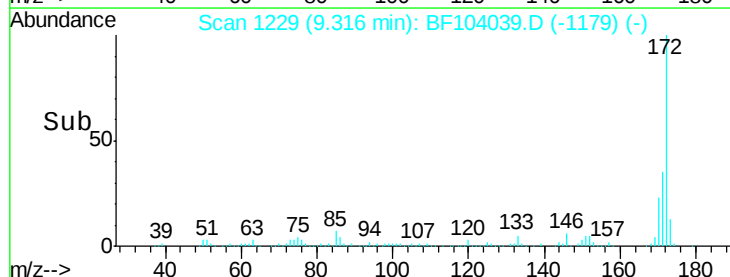
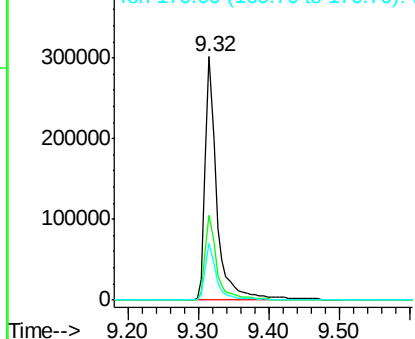


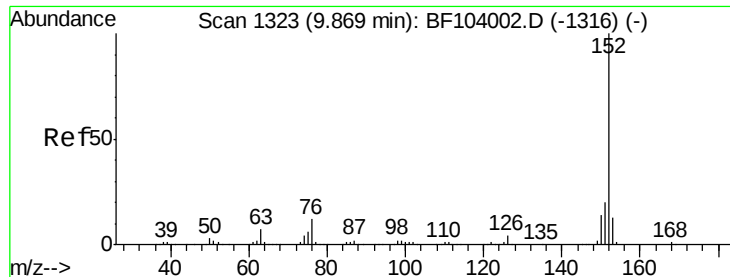
Abundance

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





#48

Acenaphthylene

Concen: 9.149 ng

RT: 9.87 min Scan# 1323

Delta R.T. -0.00 min

Lab File: BF104039.D

Acq: 29 Mar 2018 7:46

Instrument :

BNA_F

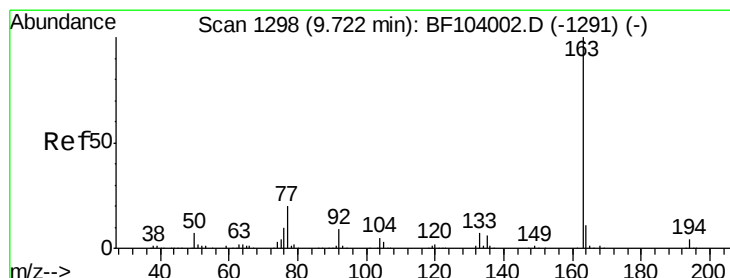
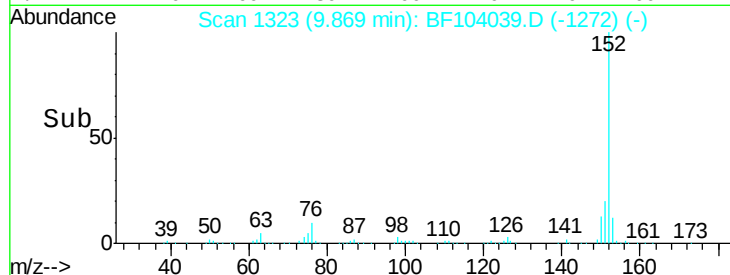
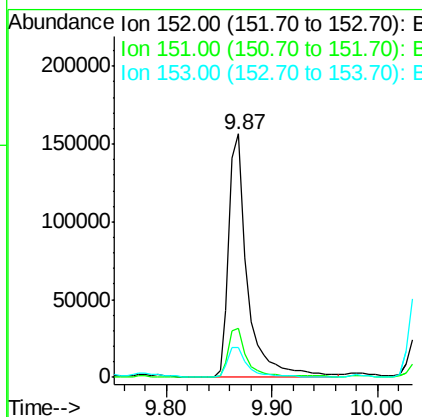
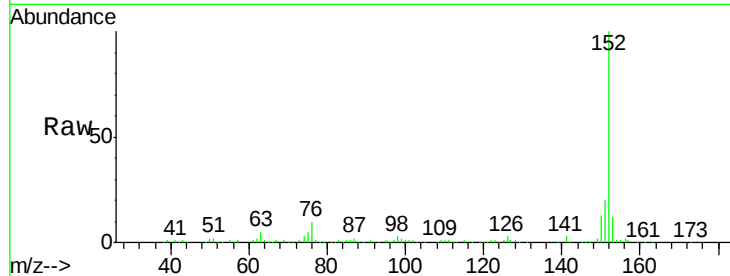
ClientSampleId :

A2_SB16_W_8DL

Tot Ion:	152	Resp:	190673
Ion Ratio		Lower	Upper
152	100		
151	20.0	16.3	24.5
153	12.3	10.7	16.1

Manual Integrations
APPROVED

Sohil
3/29/2018 5:37:56 PM



#49

Dimethylphthalate

Concen: 3.806 ng

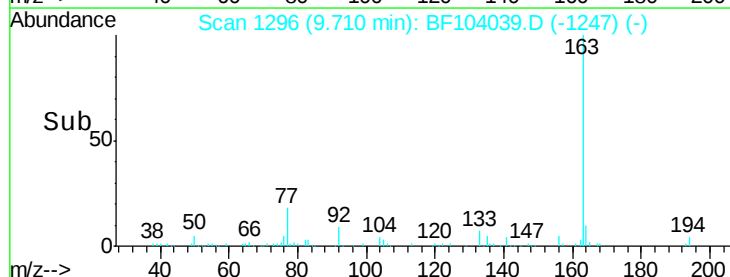
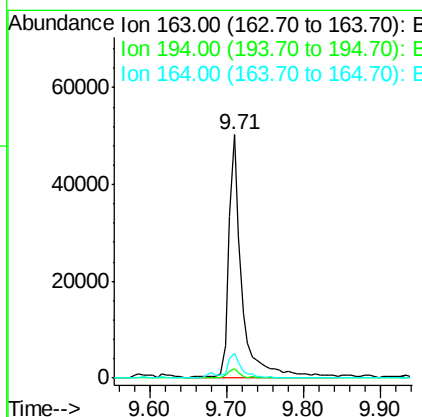
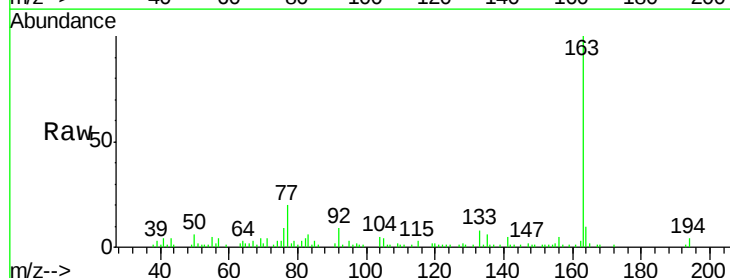
RT: 9.71 min Scan# 1296

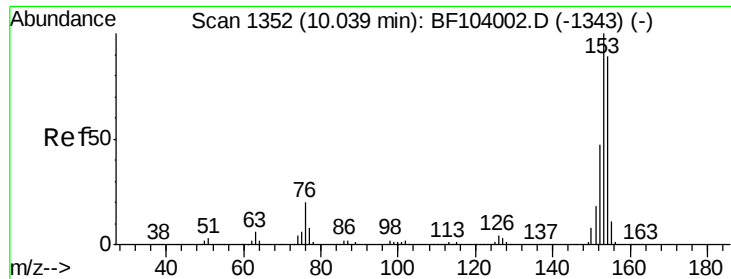
Delta R.T. -0.01 min

Lab File: BF104039.D

Acq: 29 Mar 2018 7:46

Tgt Ion:	163	Resp:	61067
Ion Ratio		Lower	Upper
163	100		
194	3.9	2.7	4.1
164	10.4	8.2	12.2





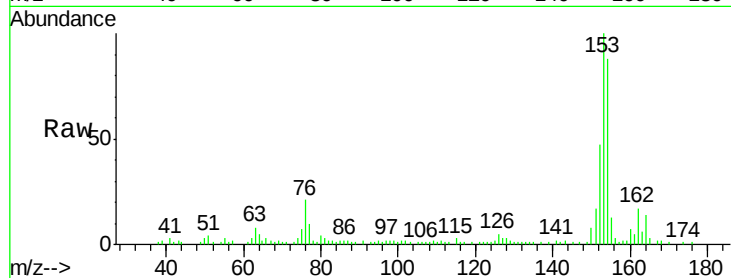
#51
Acenaphthene
Concen: 4.701 ng
RT: 10.03 min Scan# 1351
Delta R.T. -0.01 min
Lab File: BF104039.D
Acq: 29 Mar 2018 7:46

Instrument :
BNA_F
ClientSampleId :
A2_SB16_W_8DL

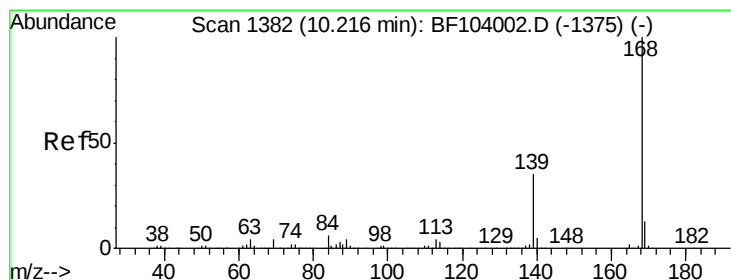
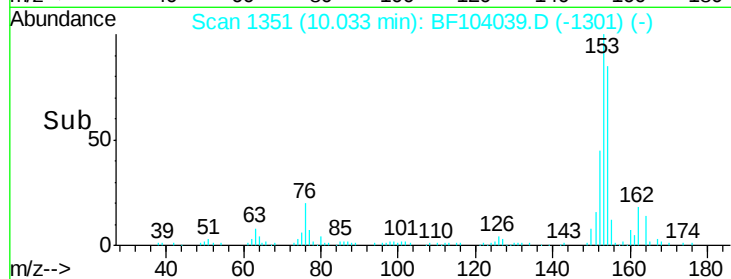
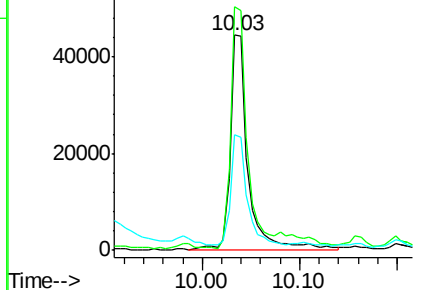
Tot Ion	Ratio	Lower	Upper
154	100		
153	113.1	91.2	136.8
152	53.5	43.8	65.8

Manual Integrations
APPROVED

Sohil
3/29/2018 5:37:56 PM

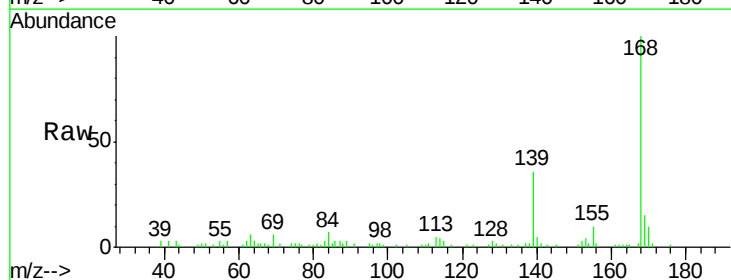


Abundance Ion 154.00 (153.70 to 154.70): E
Ion 153.00 (152.70 to 153.70): E
Ion 152.00 (151.70 to 152.70): E

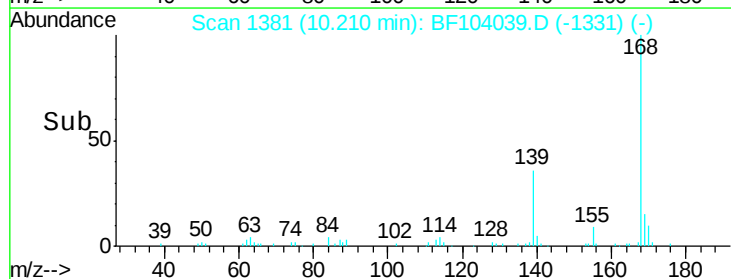
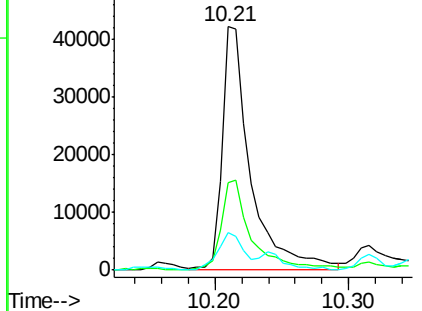


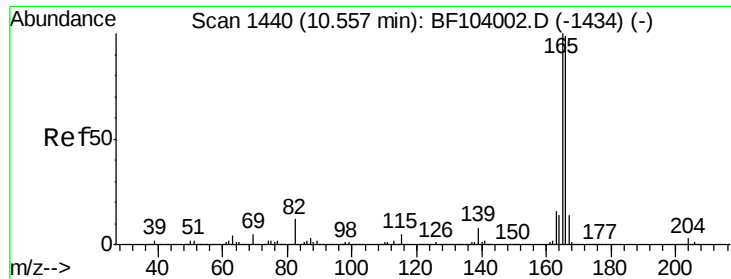
#54
Dibenzofuran
Concen: 3.604 ng
RT: 10.21 min Scan# 1381
Delta R.T. -0.01 min
Lab File: BF104039.D
Acq: 29 Mar 2018 7:46

Tgt Ion	Ratio	Lower	Upper
168	100		
139	35.8	30.1	45.1
169	15.3	10.9	16.3



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





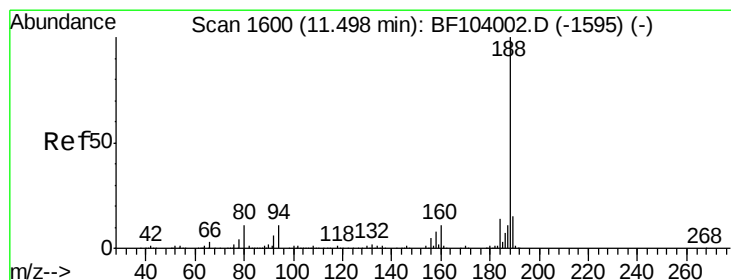
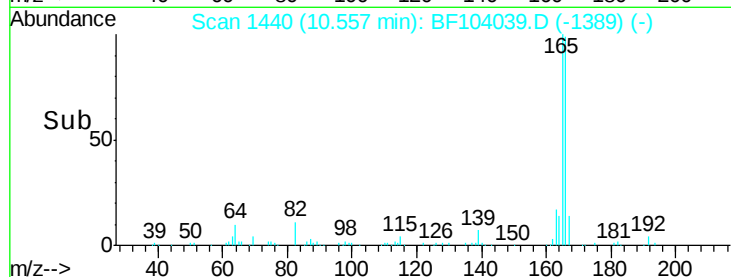
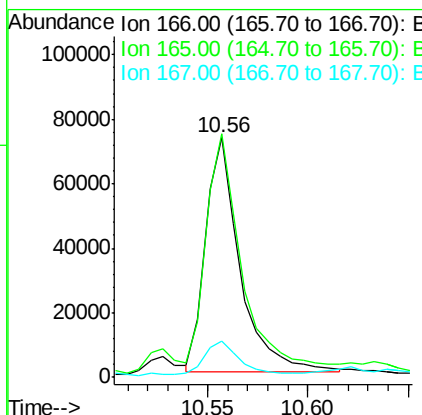
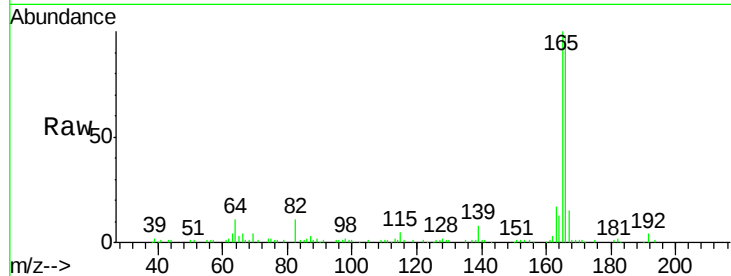
#57
Fluorene
 Concen: 6.001 ng/mL
 RT: 10.56 min Scan# 1440
 Delta R.T. -0.00 min
 Lab File: BF104039.D
 Acq: 29 Mar 2018 7:46

Instrument :
 BNA_F
 ClientSampleId :
 A2_SB16_W_8DL

Tot Ion	Ratio	Lower	Upper
166	100		
165	101.7	79.8	119.8
167	15.1	10.6	16.0

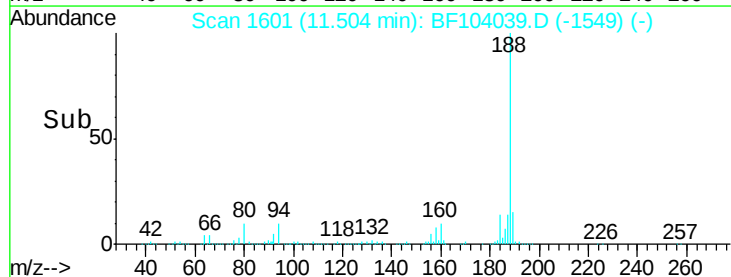
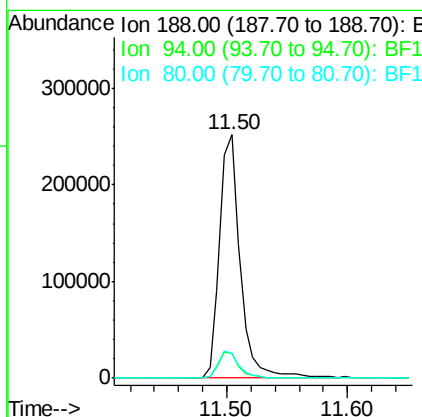
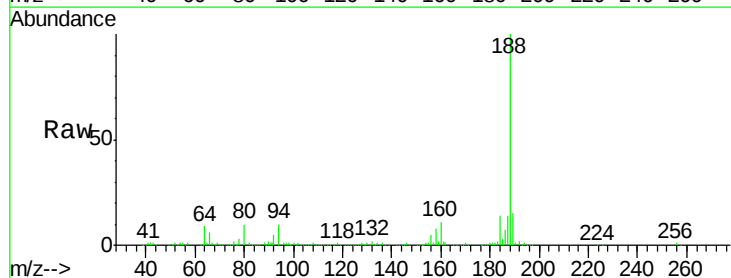
Manual Integrations
 APPROVED

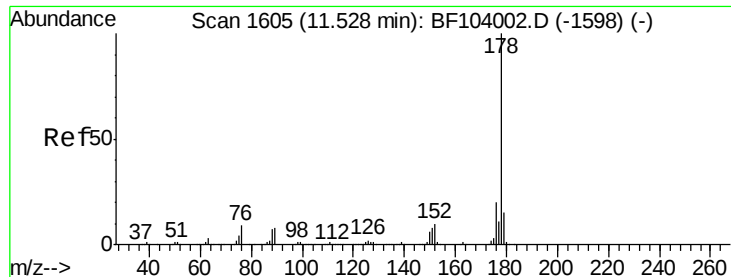
Sohil
 3/29/2018 5:37:56 PM



#63
Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.50 min Scan# 1601
 Delta R.T. 0.01 min
 Lab File: BF104039.D
 Acq: 29 Mar 2018 7:46

Tgt Ion	Ratio	Lower	Upper
188	100		
94	10.2	8.5	12.7
80	10.1	9.2	13.8





#70

Phenanthrene

Concen: 35.453 ng

RT: 11.53 min Scan# 1605

Delta R.T. -0.00 min

Lab File: BF104039.D

Acq: 29 Mar 2018 7:46

Instrument :

BNA_F

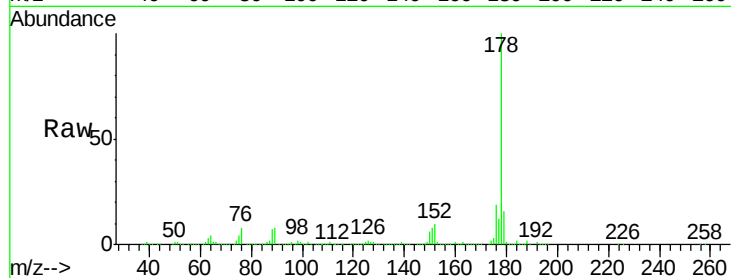
ClientSampleId :

A2_SB16_W_8DL

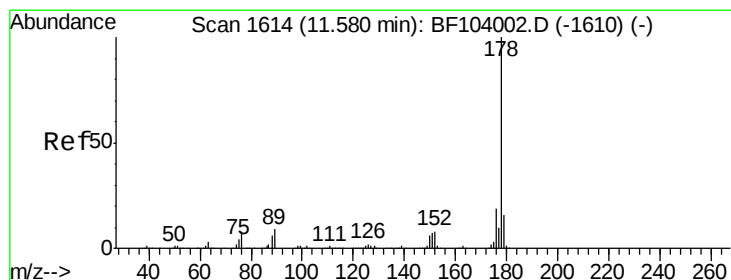
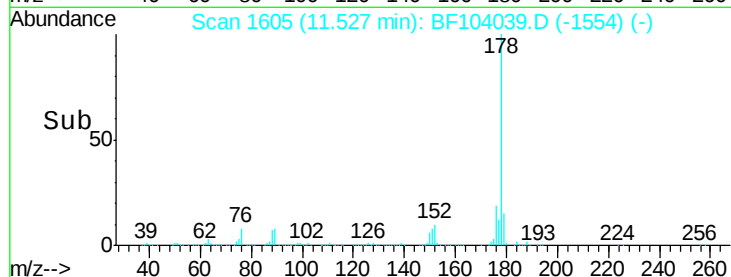
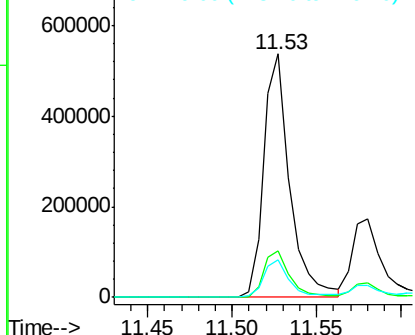
Tot Ion:178	Resp:	572247
Ion Ratio	Lower	Upper
178	100	
176	19.1	15.8 23.8
179	15.5	13.0 19.6

Manual Integrations
APPROVED

Sohil
3/29/2018 5:37:56 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



#71

Anthracene

Concen: 13.631 ng

RT: 11.58 min Scan# 1614

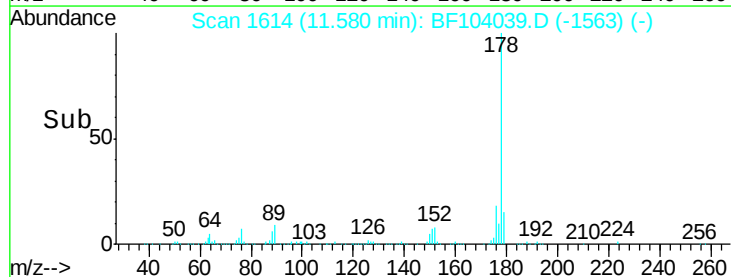
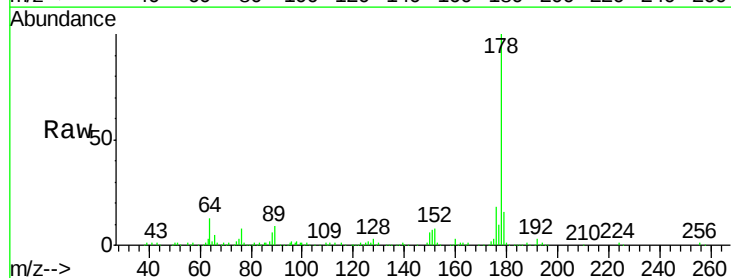
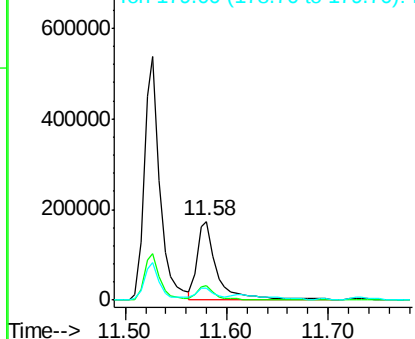
Delta R.T. -0.00 min

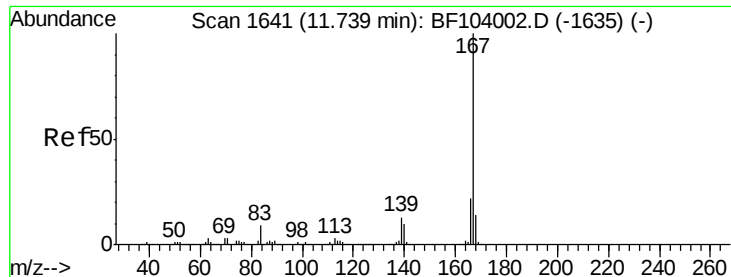
Lab File: BF104039.D

Acq: 29 Mar 2018 7:46

Tgt Ion:178	Resp:	229819
Ion Ratio	Lower	Upper
178	100	
176	18.4	15.4 23.2
179	15.7	12.6 19.0

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: 2.477 ng

RT: 11.74 min Scan# 1641

Delta R.T. -0.00 min

Lab File: BF104039.D

Acq: 29 Mar 2018 7:46

Instrument :

BNA_F

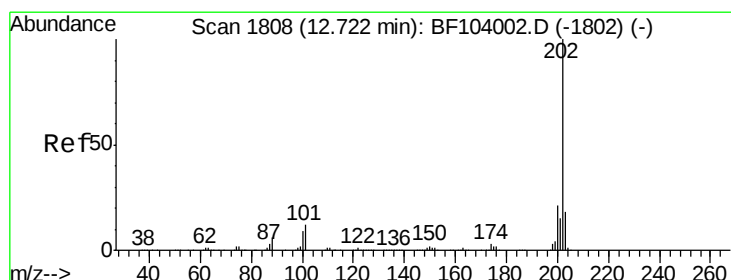
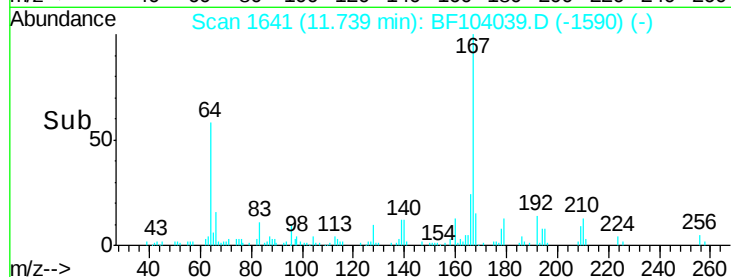
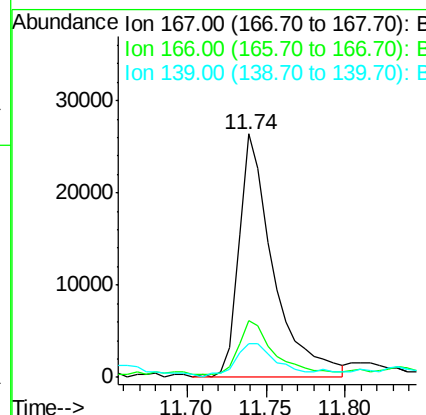
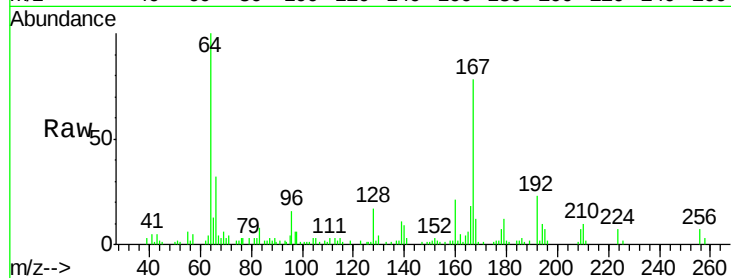
ClientSampleId :

A2_SB16_W_8DL

Tot Ion:	167	Resp:	39860
Ion Ratio	Lower	Upper	
167	100		
166	23.3	17.6	26.4
139	14.0	10.9	16.3

Manual Integrations
APPROVED

Sohil
3/29/2018 5:37:56 PM



#74

Fluoranthene

Concen: 49.994 ng

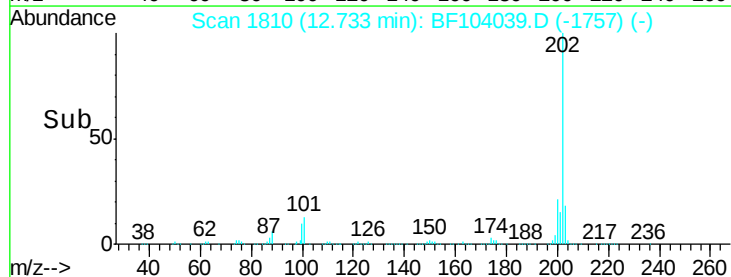
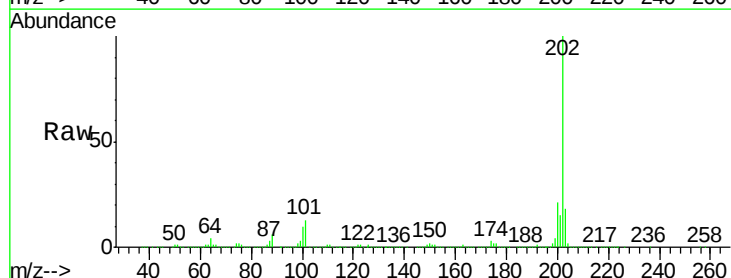
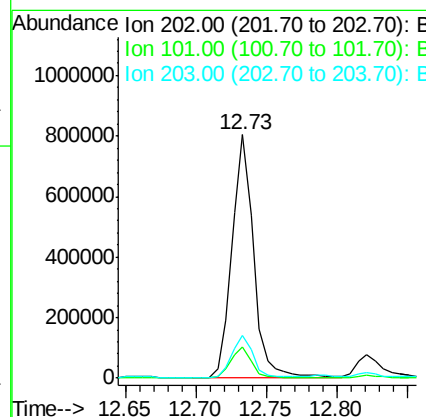
RT: 12.73 min Scan# 1810

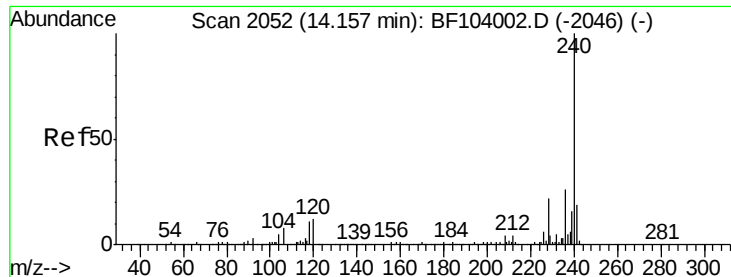
Delta R.T. 0.01 min

Lab File: BF104039.D

Acq: 29 Mar 2018 7:46

Tgt Ion:	202	Resp:	857770
Ion Ratio	Lower	Upper	
202	100		
101	12.9	0.0	34.1
203	17.8	0.0	38.1





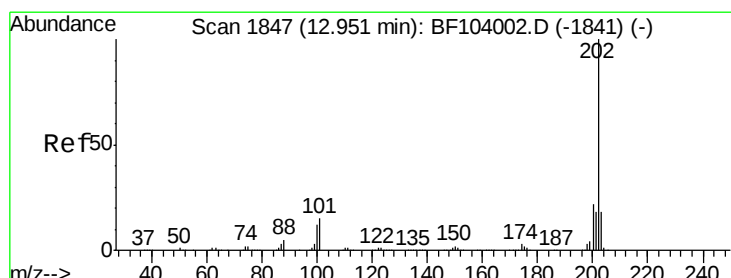
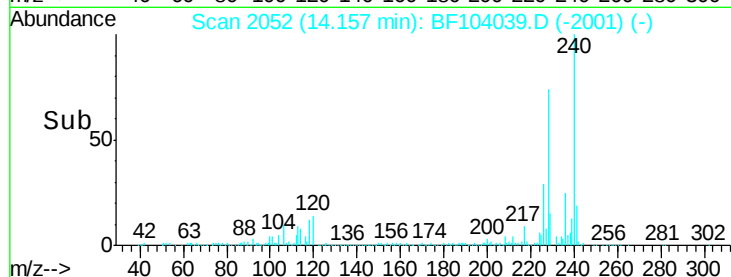
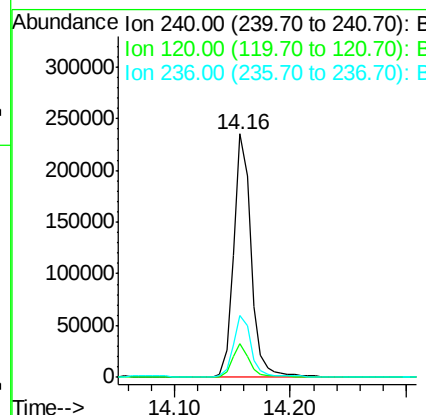
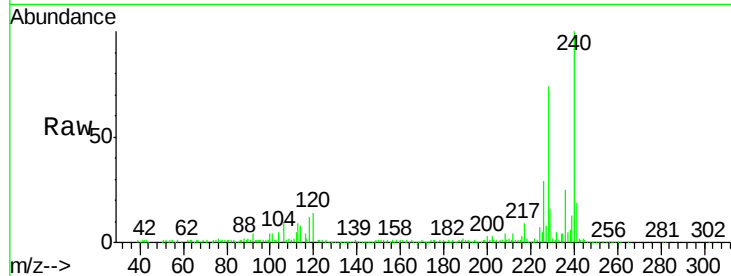
#75
Chrysene-d12
Concen: 20.000 ng
RT: 14.16 min Scan# 2052
Delta R.T. -0.00 min
Lab File: BF104039.D
Acq: 29 Mar 2018 7:46

Instrument :
BNA_F
ClientSampleId :
A2_SB16_W_8DL

Tot Ion	Ratio	Lower	Upper
240	100		
120	14.0	9.5	14.3
236	25.4	20.7	31.1

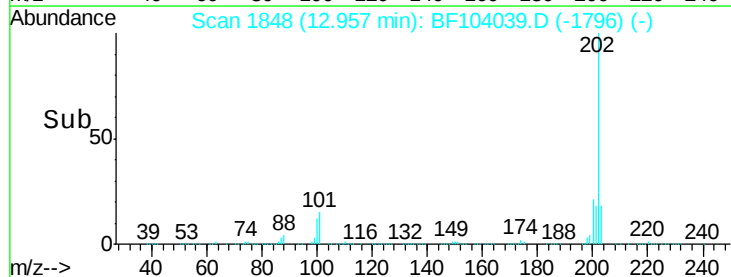
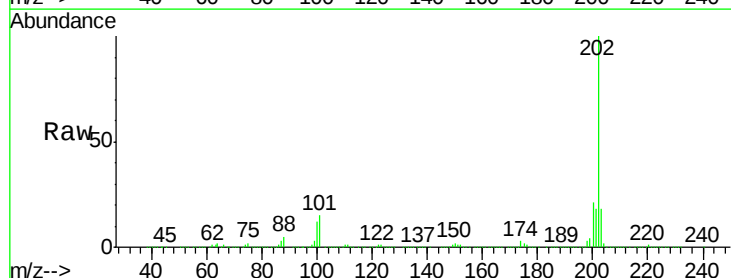
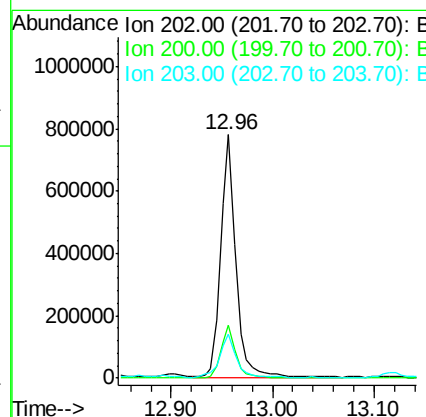
Manual Integrations
APPROVED

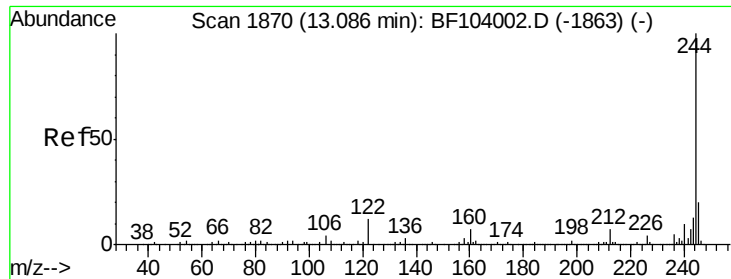
Sohil
3/29/2018 5:37:56 PM



#77
Pyrene
Concen: 45.594 ng
RT: 12.96 min Scan# 1848
Delta R.T. 0.01 min
Lab File: BF104039.D
Acq: 29 Mar 2018 7:46

Tgt Ion	Ratio	Lower	Upper
202	100		
200	21.5	17.4	26.2
203	18.2	14.3	21.5





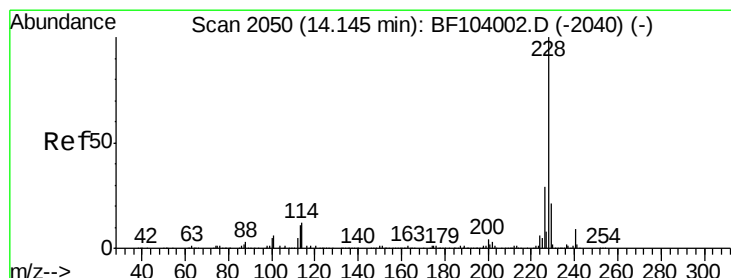
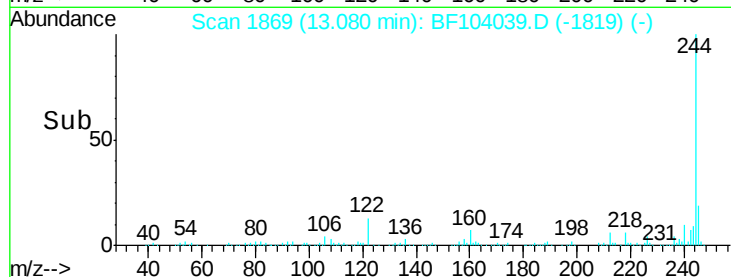
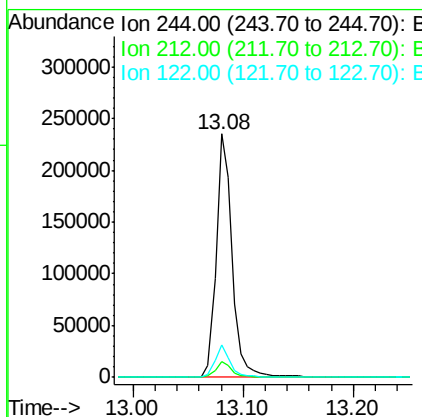
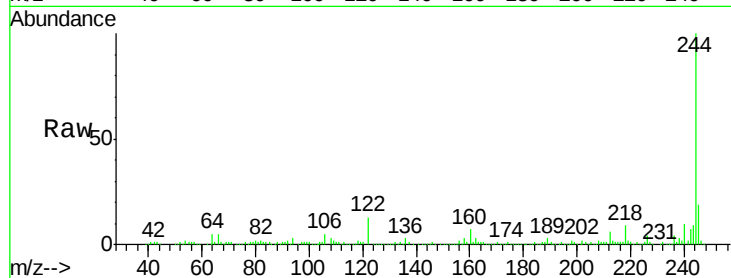
#78
 Terphenyl-d14
 Concen: 22.082 ng
 RT: 13.08 min Scan# 1869
 Delta R.T. -0.01 min
 Lab File: BF104039.D
 Acq: 29 Mar 2018 7:46

Instrument :
 BNA_F
 ClientSampleId :
 A2_SB16_W_8DL

Tot Ion	Ratio	Lower	Upper
244	100		
212	6.3	5.4	8.0
122	13.1	11.0	16.4

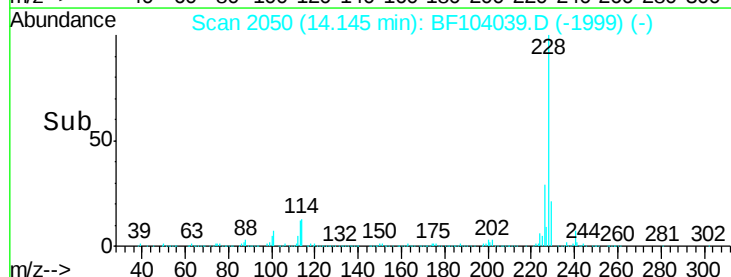
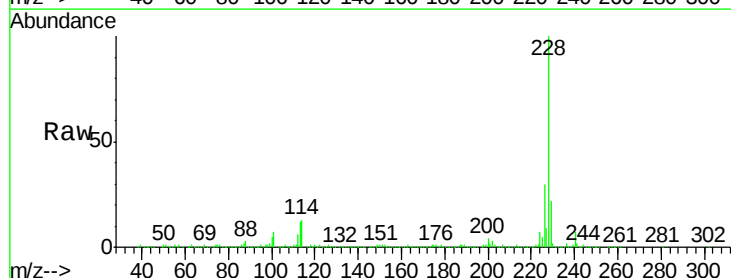
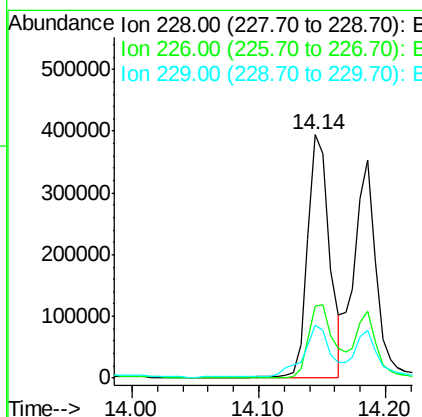
Manual Integrations
 APPROVED

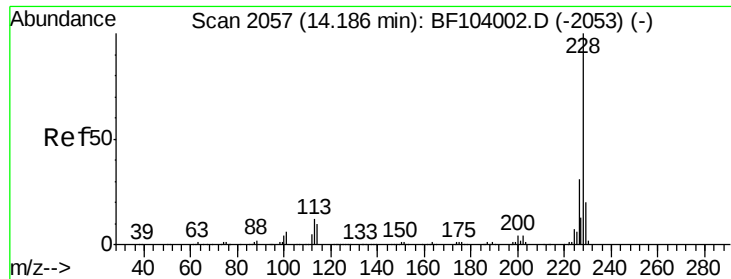
Sohil
 3/29/2018 5:37:56 PM



#80
 Benzo(a)anthracene
 Concen: 30.722 ng
 RT: 14.14 min Scan# 2050
 Delta R.T. -0.00 min
 Lab File: BF104039.D
 Acq: 29 Mar 2018 7:46

Tgt Ion	Ratio	Lower	Upper
228	100		
226	29.5	22.6	33.8
229	21.5	15.8	23.6





#82

Chrysene

Concen: 28.052 ng

RT: 14.19 min Scan# 2057

Delta R.T. -0.00 min

Lab File: BF104039.D

Acq: 29 Mar 2018 7:46

Instrument :

BNA_F

ClientSampleId :

A2_SB16_W_8DL

Tot Ion:228 Resp: 422298

Ion Ratio Lower Upper

228 100

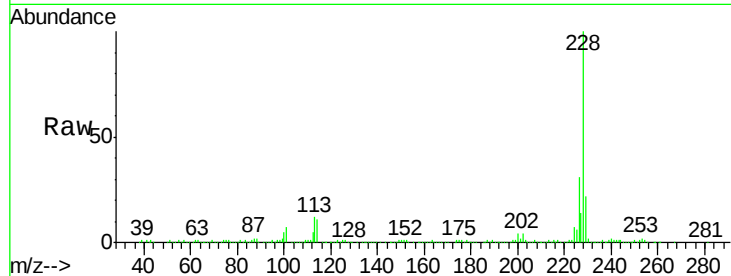
226 30.7 25.0 37.6

229 21.7 16.2 24.4

Manual Integrations
APPROVED

Sohil

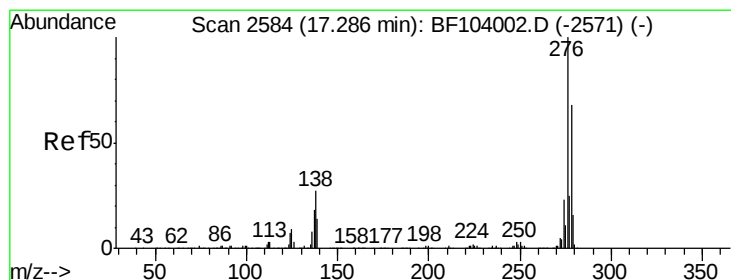
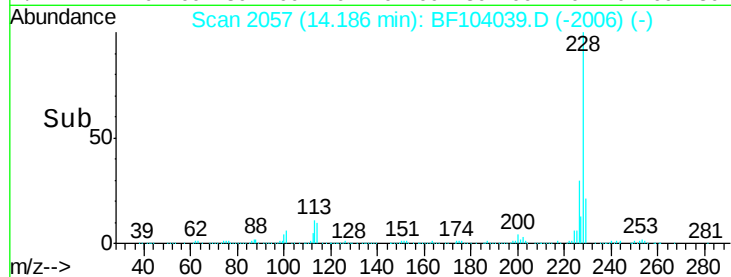
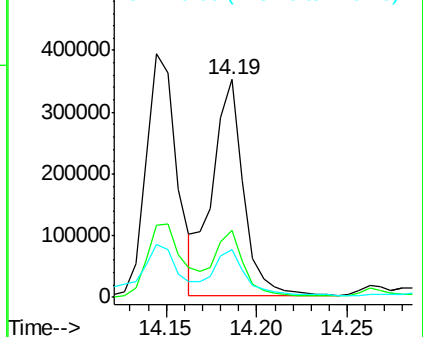
3/29/2018 5:37:56 PM



Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#85

Indeno(1,2,3-cd)pyrene

Concen: 10.943 ng m

RT: 17.29 min Scan# 2584

Delta R.T. -0.00 min

Lab File: BF104039.D

Acq: 29 Mar 2018 7:46

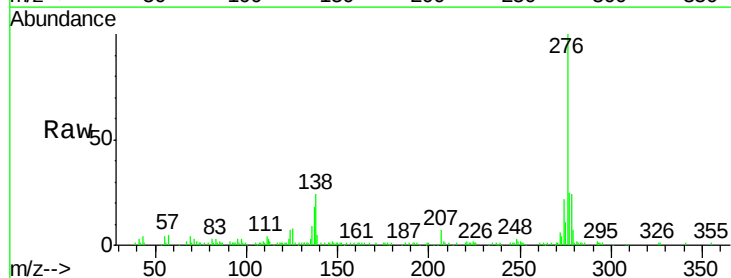
Tgt Ion:276 Resp: 170708

Ion Ratio Lower Upper

276 100

138 4.6 25.0 37.6#

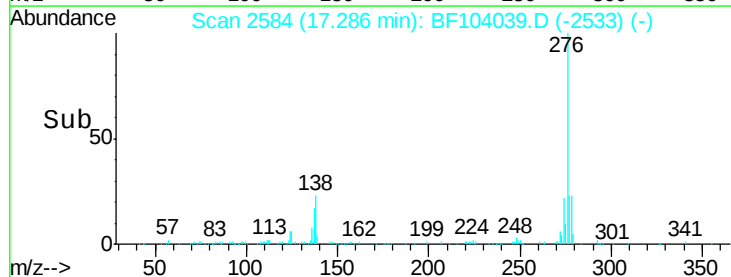
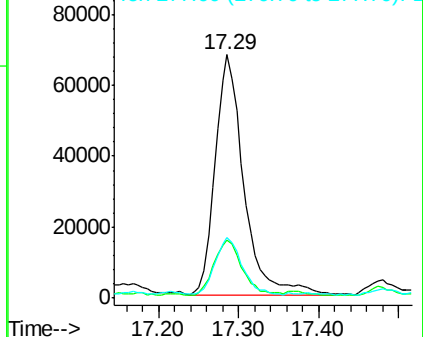
277 4.6 20.1 30.1#

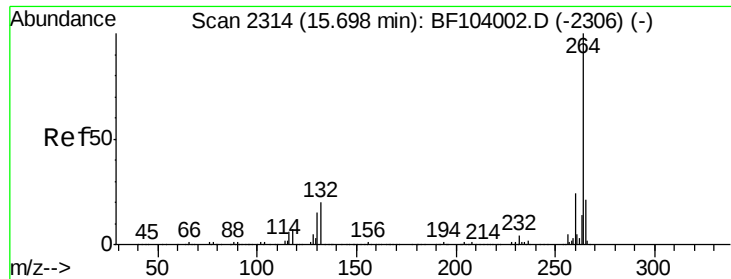


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E





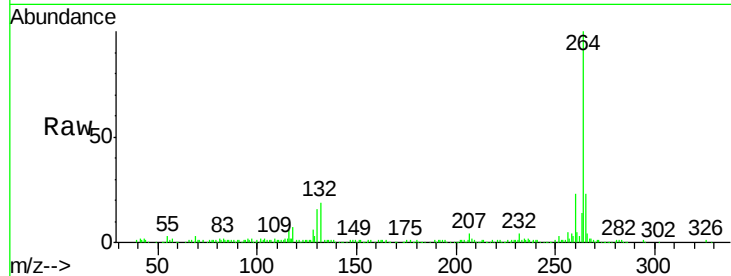
#86
Pervlene-d12
Concen: 20.000 ng
RT: 15.70 min Scan# 2315
Delta R.T. 0.01 min
Lab File: BF104039.D
Acq: 29 Mar 2018 7:46

Instrument :
BNA_F
ClientSampleId :
A2_SB16_W_8DL

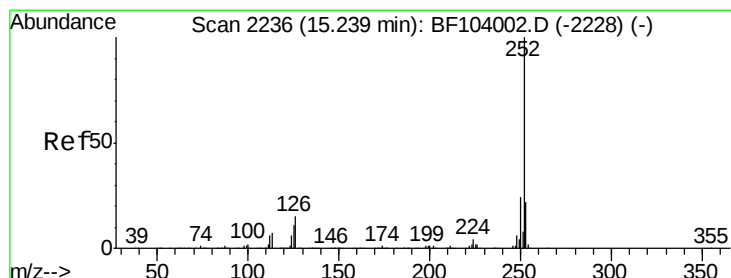
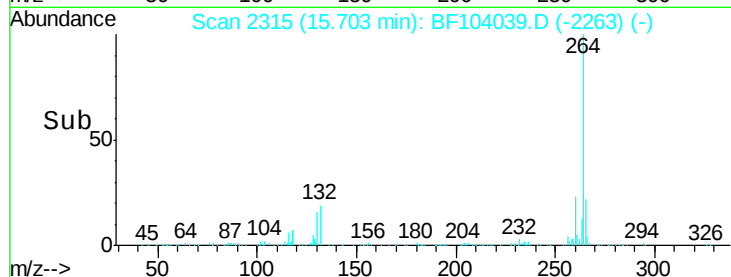
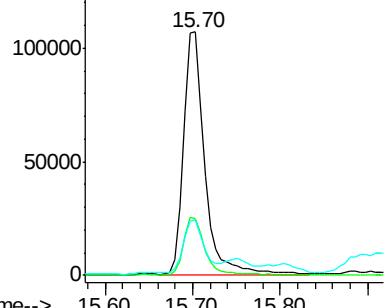
Tot Ion	Ratio	Lower	Upper
264	100		
260	23.4	19.2	28.8
265	22.6	17.5	26.3

Manual Integrations
APPROVED

Sohil
3/29/2018 5:37:56 PM



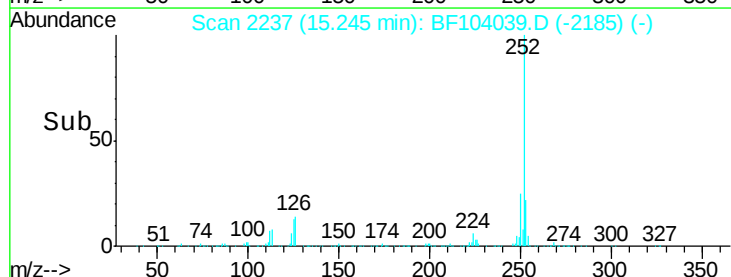
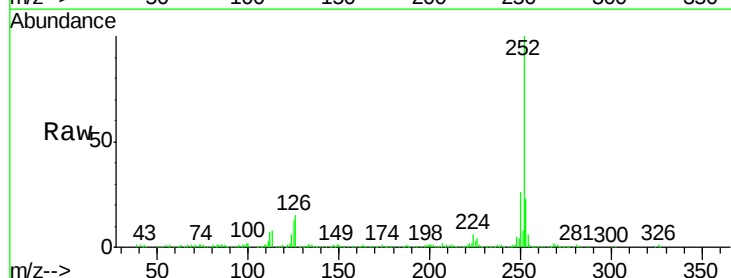
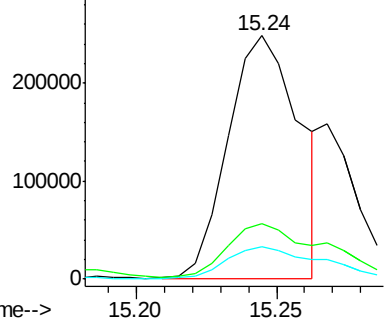
Abundance Ion 264.00 (263.70 to 264.70): E
Ion 260.00 (259.70 to 260.70): E
Ion 265.00 (264.70 to 265.70): E

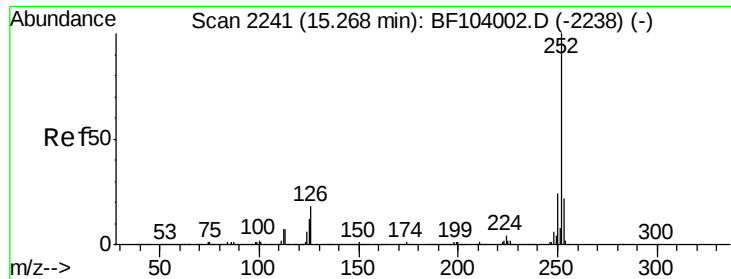


#87
Benzo(b)fluoranthene
Concen: 40.024 ng m
RT: 15.24 min Scan# 2237
Delta R.T. 0.01 min
Lab File: BF104039.D
Acq: 29 Mar 2018 7:46

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.6	17.0	25.6
125	13.4	9.0	13.6

Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E





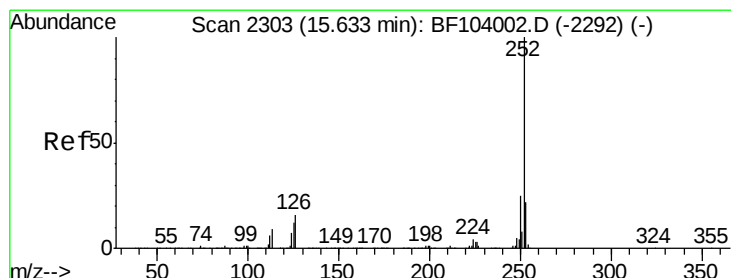
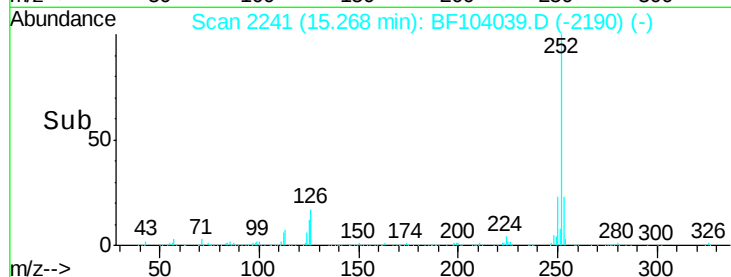
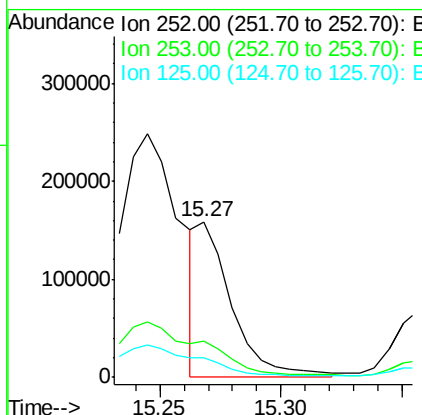
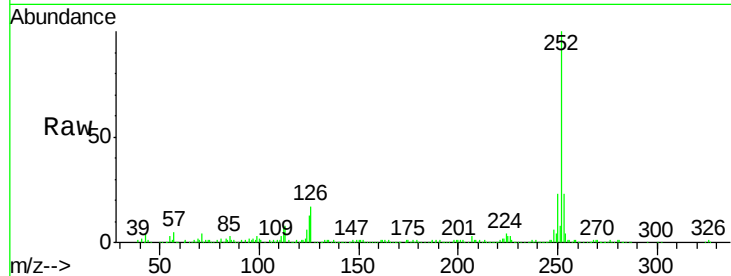
#88
Benzo(k)fluoranthene
Concen: 15.186 ng m
RT: 15.27 min Scan# 2241
Delta R.T. -0.00 min
Lab File: BF104039.D
Acq: 29 Mar 2018 7:46

Instrument :
BNA_F
ClientSampleId :
A2_SB16_W_8DL

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.5	17.9	26.9
125	12.6	10.2	15.2

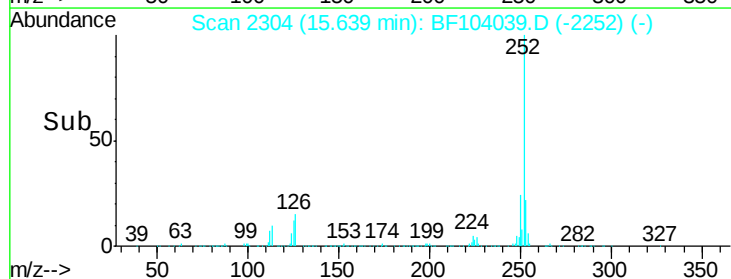
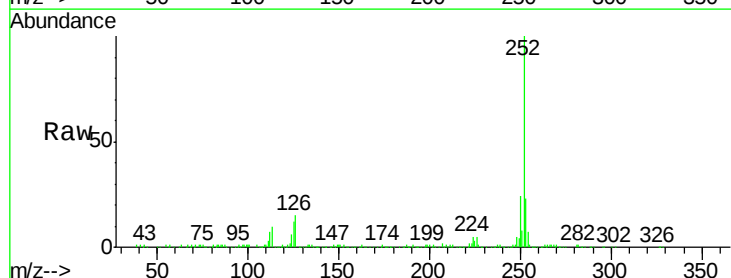
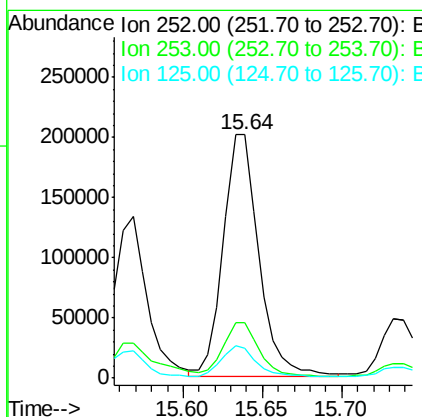
Manual Integrations
APPROVED

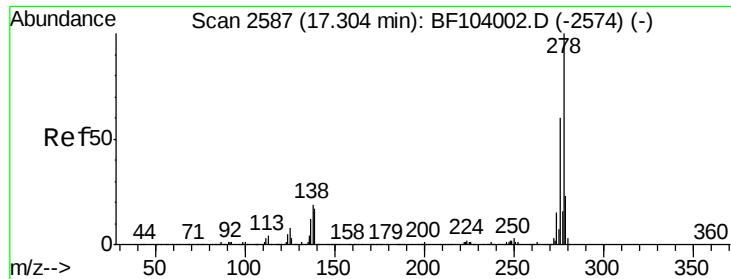
Sohil
3/29/2018 5:37:56 PM



#89
Benzo(a)pyrene
Concen: 31.272 ng
RT: 15.64 min Scan# 2304
Delta R.T. 0.01 min
Lab File: BF104039.D
Acq: 29 Mar 2018 7:46

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.9	17.1	25.7
125	12.5	9.8	14.6





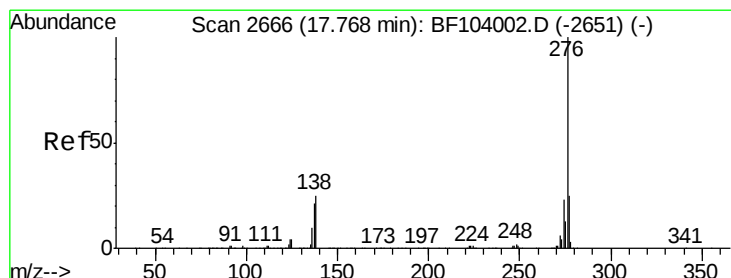
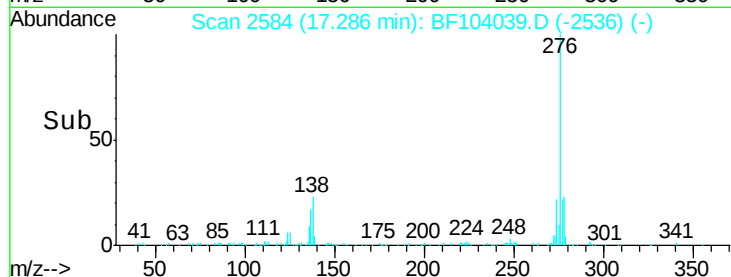
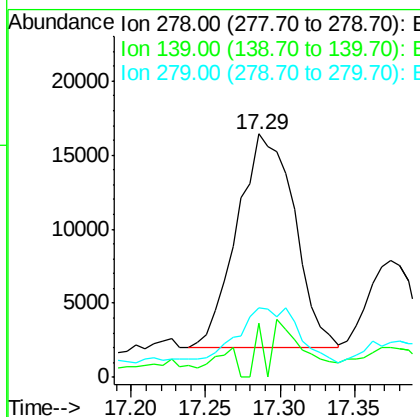
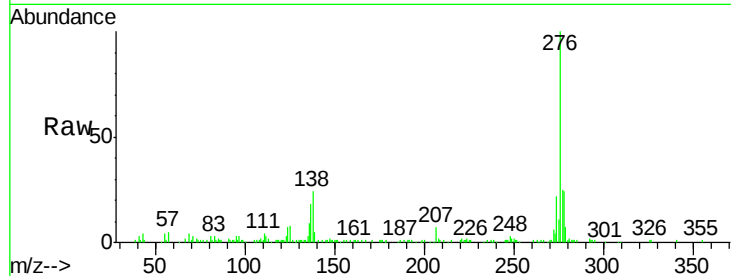
#90
Dibenzo(a,h)anthracene
Concen: 4.112 ng
RT: 17.29 min Scan# 2584
Delta R.T. -0.02 min
Lab File: BF104039.D
Acq: 29 Mar 2018 7:46

Instrument :
BNA_F
ClientSampleId :
A2_SB16_W_8DL

Tot Ion	Ratio	Lower	Upper
278	100		
139	22.3	15.9	23.9
279	28.5	19.0	28.4

Manual Integrations
APPROVED

Sohil
3/29/2018 5:37:56 PM



#91
Benzo(g,h,i)perylene
Concen: 16.151 ng
RT: 17.77 min Scan# 2666
Delta R.T. -0.00 min
Lab File: BF104039.D
Acq: 29 Mar 2018 7:46

Tgt Ion	Ratio	Lower	Upper
276	100		
277	24.2	17.9	26.9
138	24.8	21.8	32.8

