

Data Path : U:\HPCHEM1\BNA F\DATA\BF011018\
 Data File : BF102003.D
 Acq On : 11 Jan 2018 2:10
 Operator : SJ/JU
 Sample : J1076-18 50X
 Misc :
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 WC-42-01

Manual Integrations
 APPROVED

Sohil
 1/11/2018 10:53:36 AM

Quant Time: Jan 11 05:15:52 2018
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF010918.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Jan 09 15:20:36 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.73	152	202957	20.00	ng	0.00
21) Naphthalene-d8	8.01	136	805033	20.00	ng	0.00
38) Acenaphthene-d10	9.76	164	328265	20.00	ng	0.00
63) Phenanthrene-d10	11.24	188	480095	20.00	ng	0.00
75) Chrysene-d12	13.87	240	335708	20.00	ng	0.00
86) Perylene-d12	15.29	264	387706	20.00	ng	0.00

System Monitoring Compounds						
5) 2-Fluorophenol	5.32	112	6426	0.45	ng	0.00
7) Phenol-d6	6.35	99	8164	0.48	ng	0.00
23) Nitrobenzene-d5	7.28	82	4495	0.33	ng	-0.01
41) 2,4,6-Tribromophenol	10.55	330	1024	0.36	ng	0.00
44) 2-Fluorobiphenyl	9.08	172	9603	0.46	ng	-0.01
78) Terphenyl-d14	12.82	244	6896	0.43	ng	-0.01

Target Compounds				Qvalue		
31) Naphthalene	8.03	128	443255	11.019	ng	99
37) 2-Methylnaphthalene	8.72	142	99485	3.757	ng	98
48) Acenaphthylene	9.62	152	135781	3.803	ng	99
54) Dibenzofuran	9.96	168	76332	2.566	ng	100
57) Fluorene	10.30	166	113409	5.515	ng	100
70) Phenanthrene	11.27	178	554358	19.767	ng	98
71) Anthracene	11.32	178	157474	5.537	ng	98
74) Fluoranthene	12.45	202	517513	18.756	ng	100
77) Pyrene	12.68	202	474628	15.994	ng	99
80) Benzo(a)anthracene	13.86	228	233376m	10.896	ng	
82) Chrysene	13.90	228	201183	9.008	ng	97
85) Indeno(1,2,3-cd)pyrene	16.66	276	137475	8.457	ng	98
87) Benzo(b)fluoranthene	14.89	252	271411m	10.736	ng	
88) Benzo(k)fluoranthene	14.91	252	96618m	3.962	ng	
89) Benzo(a)pyrene	15.23	252	230640	10.139	ng	98
91) Benzo(g,h,i)perylene	17.07	276	126091	6.895	ng	95

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

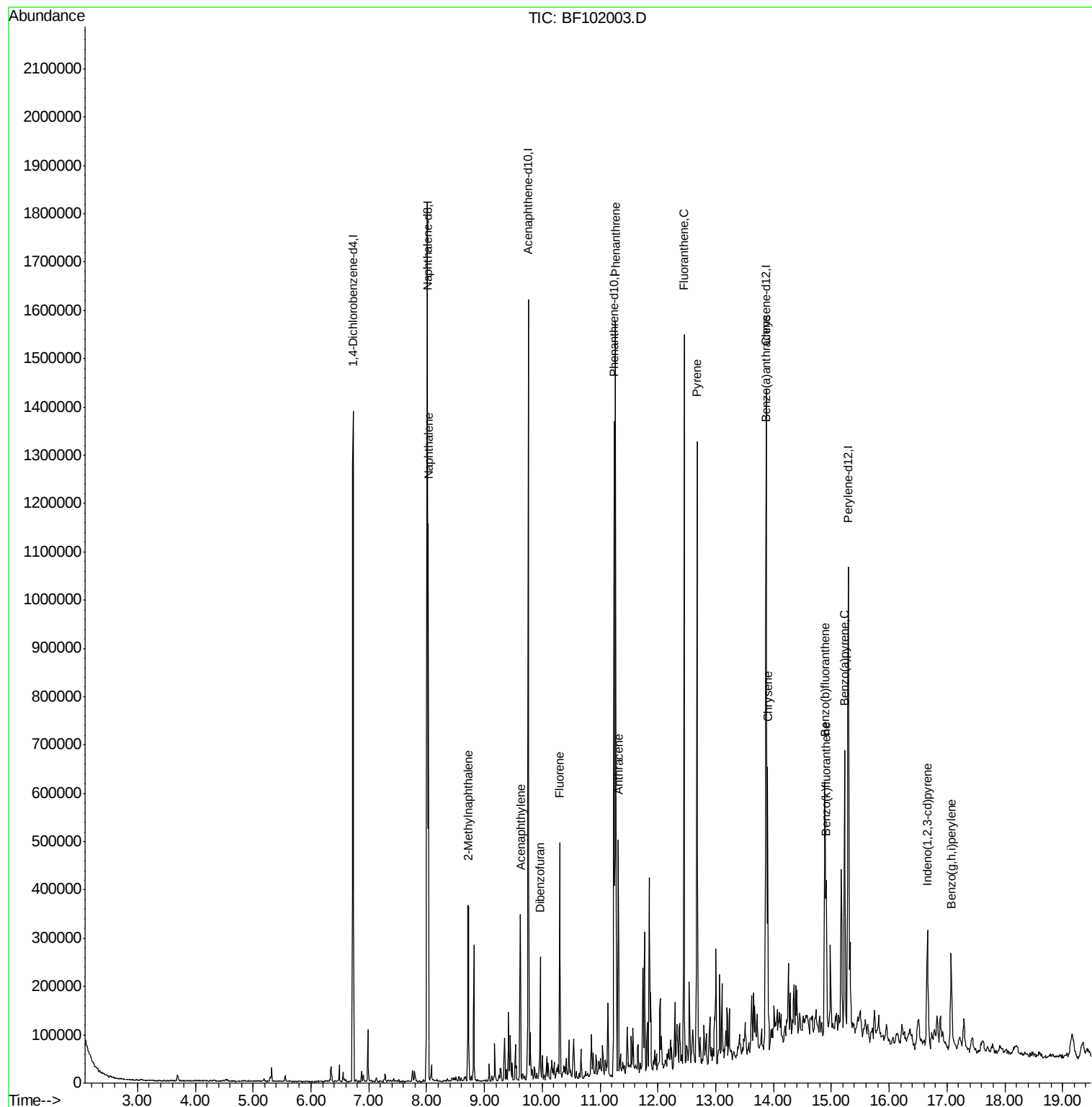
Data Path : U:\HPCHEM1\BNA F\DATA\BF011018\
Data File : BF102003.D
Acq On : 11 Jan 2018 2:10
Operator : SJ/JU
Sample : J1076-18 50X
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WC-42-01

Manual Integrations
APPROVED

Sohil
1/11/2018 10:53:36 AM

Quant Time: Jan 11 05:15:52 2018
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF010918.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jan 09 15:20:36 2018
Response via : Initial Calibration





#1

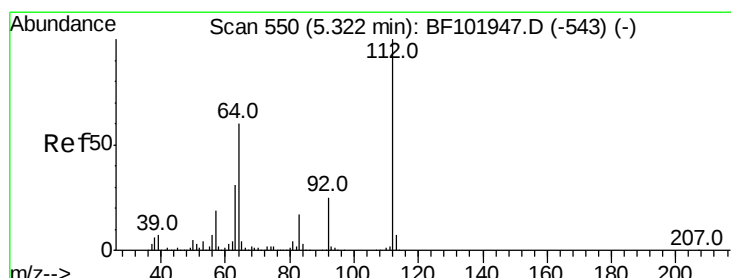
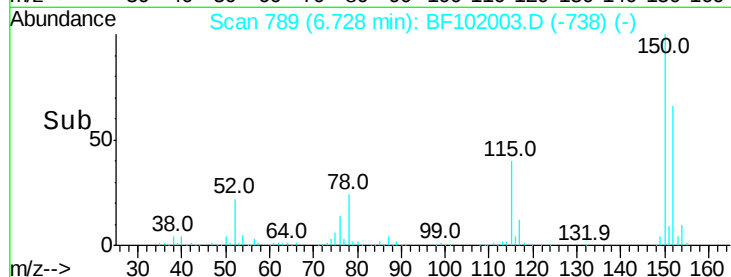
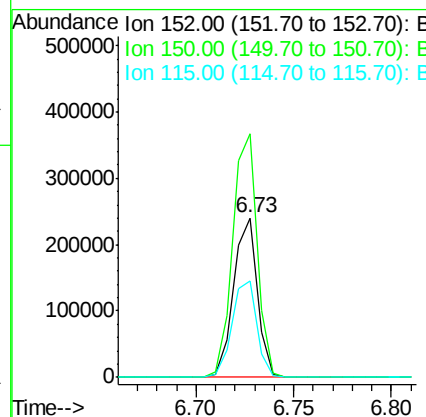
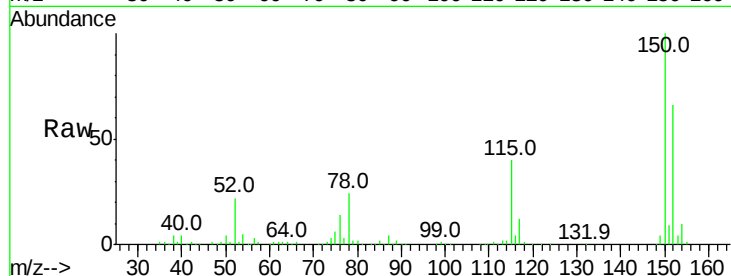
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.73 min Scan# 789
Delta R.T. -0.00 min
Lab File: BF102003.D
Acq: 11 Jan 2018 2:10

Instrument :
BNA_F
ClientSampleID :
WC-42-01

Tot Ion	Ratio	Lower	Upper
152	100		
150	152.6	124.6	186.8
115	60.6	50.1	75.1

Manual Integrations
APPROVED

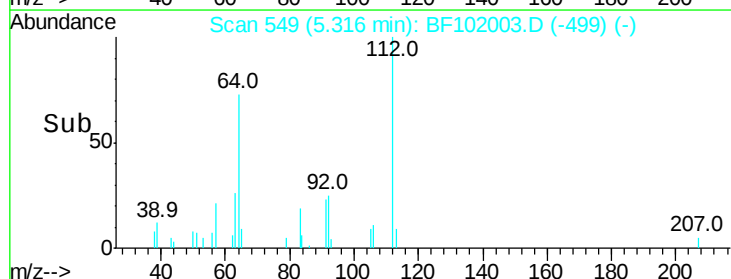
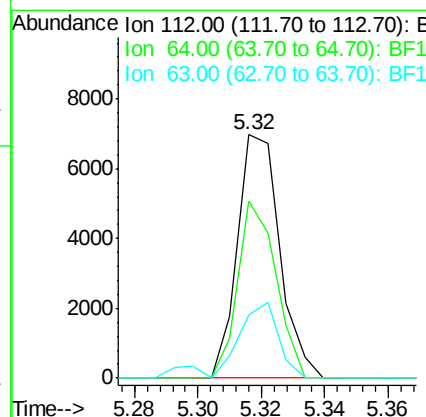
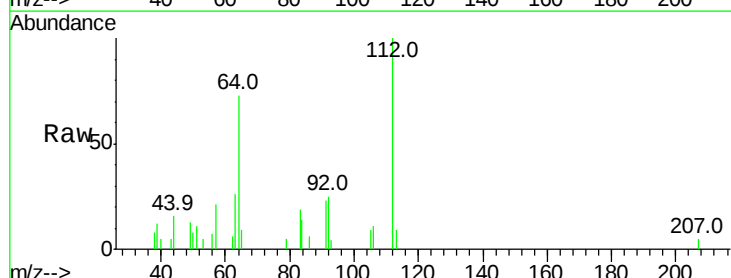
Sohil
1/11/2018 10:53:36 AM

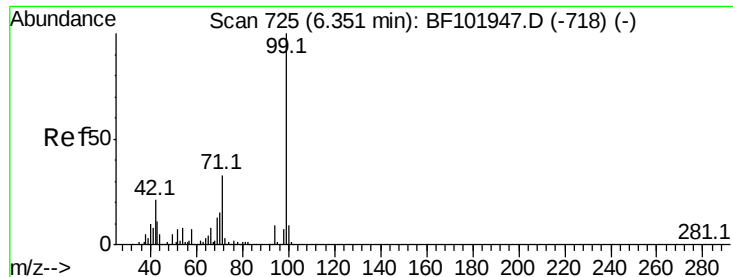


#5

2-Fluorophenol
Concen: 0.447 ng
RT: 5.32 min Scan# 549
Delta R.T. -0.01 min
Lab File: BF102003.D
Acq: 11 Jan 2018 2:10

Tgt Ion	Ratio	Lower	Upper
112	100		
64	72.5	47.9	71.9#
63	25.9	23.7	35.5





#7

Phenol-d6

Concen: 0.476 ng

RT: 6.35 min Scan# 724

Delta R.T. -0.01 min

Lab File: BF102003.D

Acq: 11 Jan 2018 2:10

Instrument :

BNA_F

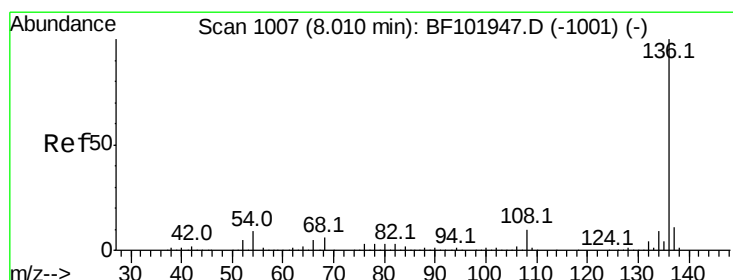
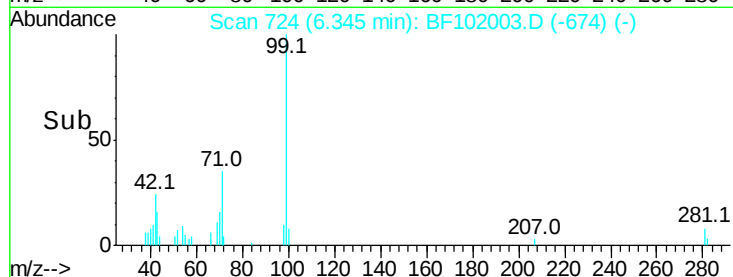
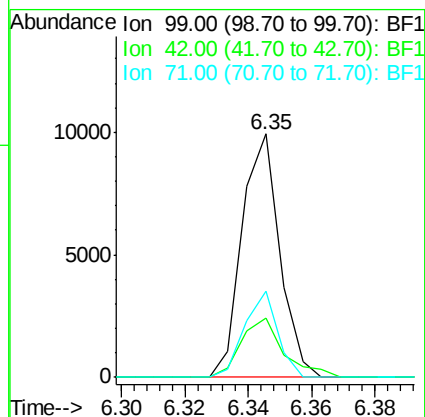
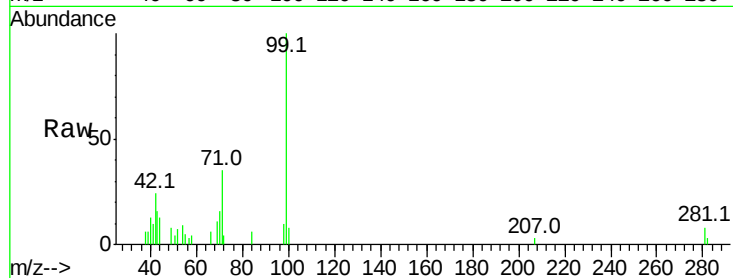
ClientSampleId :

WC-42-01

Tot Ion:	99	Resp:	8164
Ion Ratio	Lower	Upper	
99	100		
42	24.5	14.5	21.7#
71	35.5	25.4	38.0

Manual Integrations
APPROVED

Sohil
1/11/2018 10:53:36 AM



#21

Naphthalene-d8

Concen: 20.000 ng

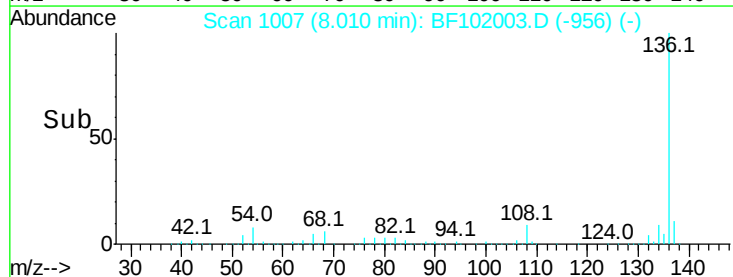
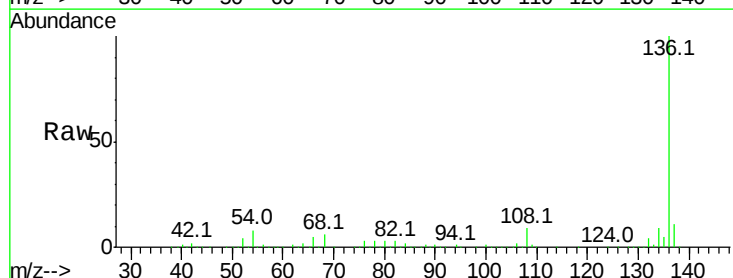
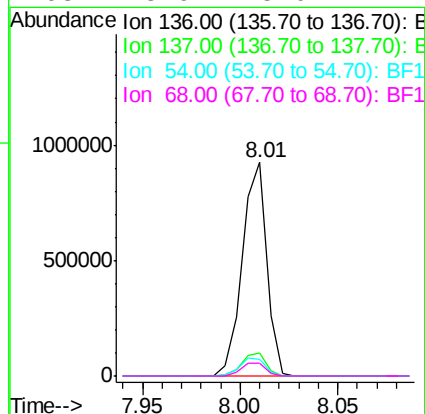
RT: 8.01 min Scan# 1007

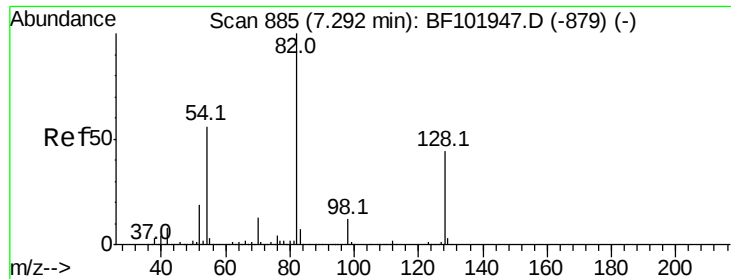
Delta R.T. -0.00 min

Lab File: BF102003.D

Acq: 11 Jan 2018 2:10

Tgt Ion:	136	Resp:	805033
Ion Ratio	Lower	Upper	
136	100		
137	10.9	8.9	13.3
54	7.8	6.6	9.8
68	5.9	5.0	7.4





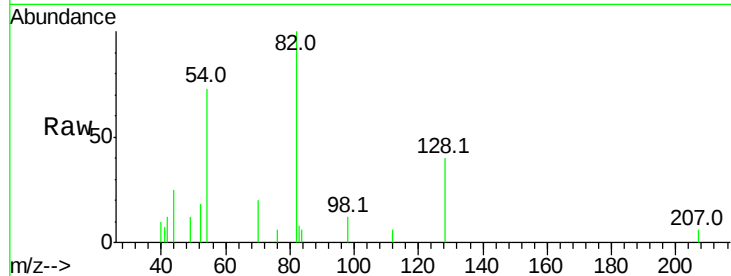
#23
Nitrobenzene-d5
Concen: 0.328 ng
RT: 7.28 min Scan# 883
Delta R.T. -0.01 min
Lab File: BF102003.D
Acq: 11 Jan 2018 2:10

Instrument :
BNA_F
ClientSampleId :
WC-42-01

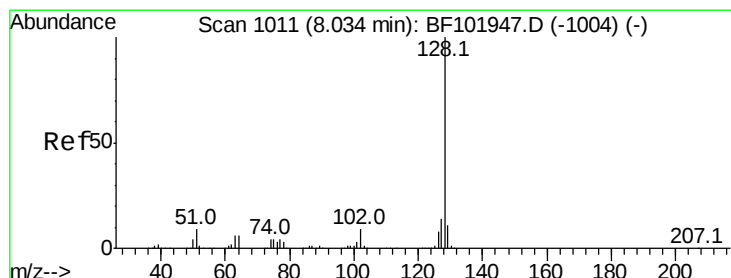
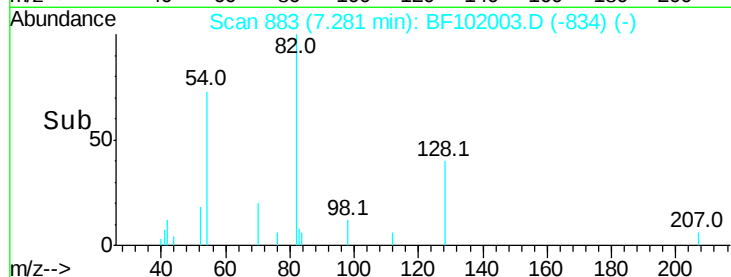
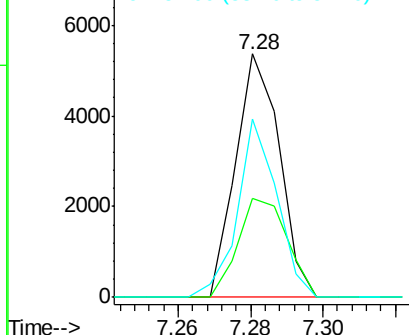
Tot Ion	Ratio	Lower	Upper
82	100		
128	40.4	36.1	54.1
54	73.0	41.4	62.2

Manual Integrations
APPROVED

Sohil
1/11/2018 10:53:36 AM



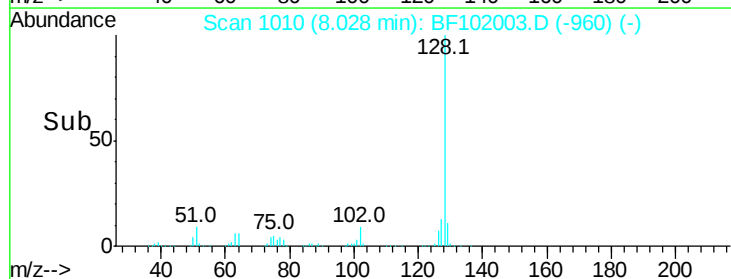
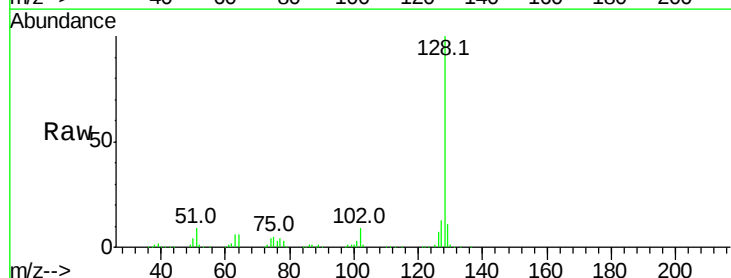
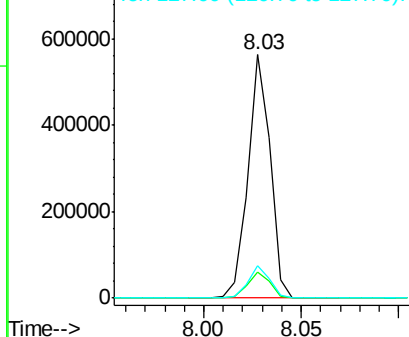
Abundance Ion 82.00 (81.70 to 82.70): BF1
Ion 128.00 (127.70 to 128.70): E
Ion 54.00 (53.70 to 54.70): BF1

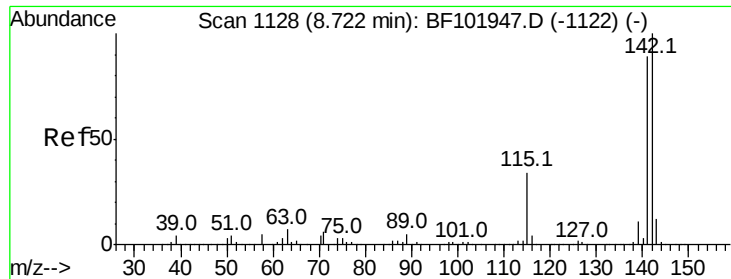


#31
Naphthalene
Concen: 11.019 ng
RT: 8.03 min Scan# 1010
Delta R.T. -0.01 min
Lab File: BF102003.D
Acq: 11 Jan 2018 2:10

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

Abundance Ion 128.00 (127.70 to 128.70): E
Ion 129.00 (128.70 to 129.70): E
Ion 127.00 (126.70 to 127.70): E





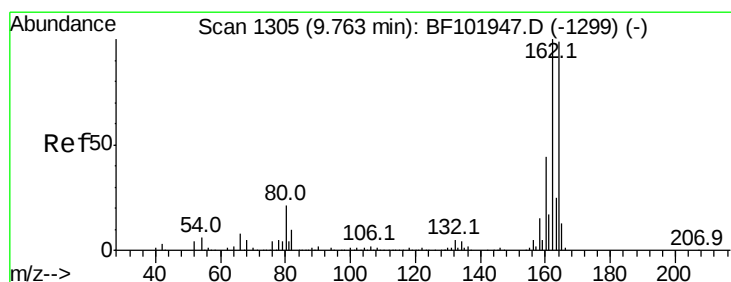
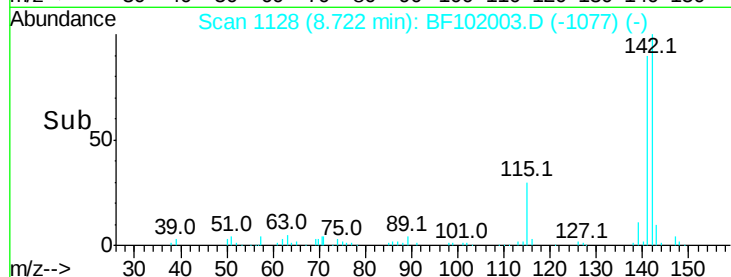
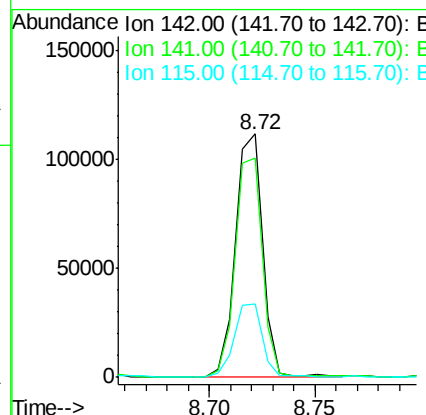
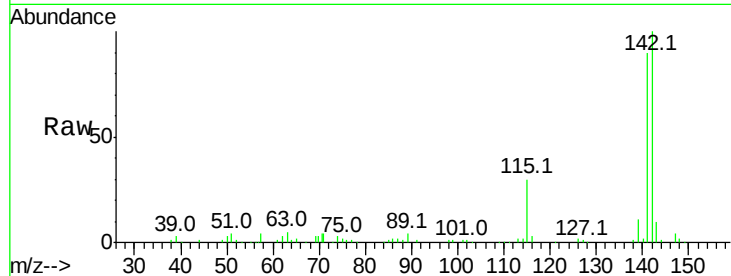
#37
2-Methylnaphthalene
Concen: 3.757 ng
RT: 8.72 min Scan# 1128
Delta R.T. -0.00 min
Lab File: BF102003.D
Acq: 11 Jan 2018 2:10

Instrument :
BNA_F
ClientSampleId :
WC-42-01

Tot Ion	Ratio	Lower	Upper
142	100		
141	89.8	70.8	106.2
115	29.9	26.1	39.1

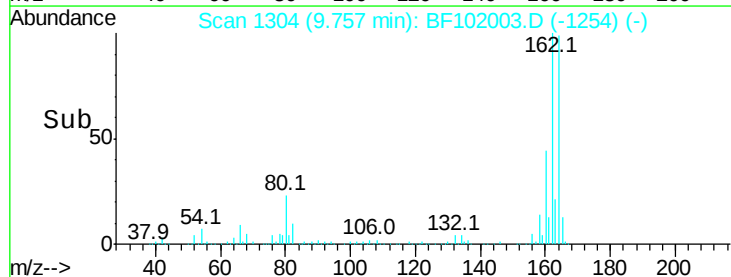
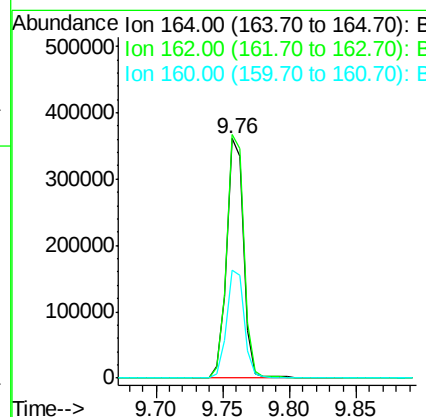
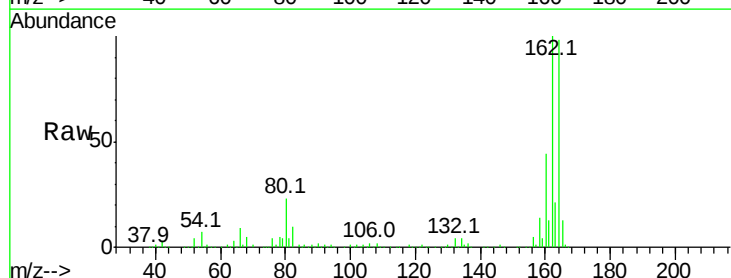
Manual Integrations
APPROVED

Sohil
1/11/2018 10:53:36 AM



#38
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.76 min Scan# 1304
Delta R.T. -0.01 min
Lab File: BF102003.D
Acq: 11 Jan 2018 2:10

Tgt Ion	Ratio	Lower	Upper
164	100		
162	101.6	86.1	129.1
160	44.9	38.3	57.5





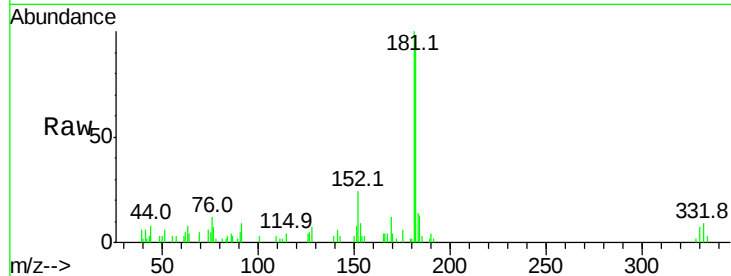
#41
 2,4,6-Tribromophenol
 Concen: 0.357 ng
 RT: 10.55 min Scan# 1438
 Delta R.T. -0.01 min
 Lab File: BF102003.D
 Acq: 11 Jan 2018 2:10

Instrument :
 BNA_F
 ClientSampleId :
 WC-42-01

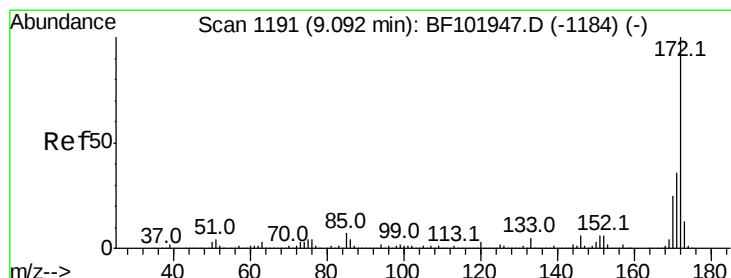
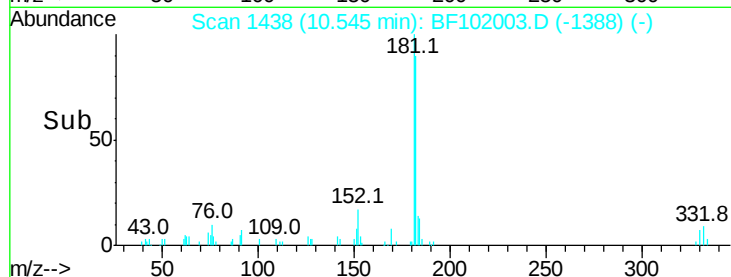
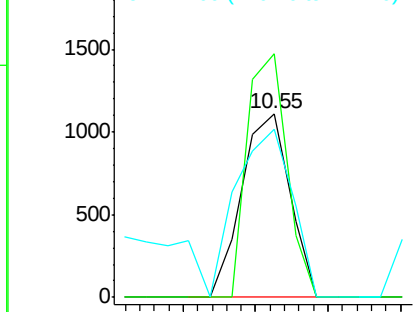
Tot Ion	Ratio	Lower	Upper
330	100		
332	109.1	77.0	115.6
141	106.4	29.9	44.9

Manual Integrations
 APPROVED

Sohil
 1/11/2018 10:53:36 AM

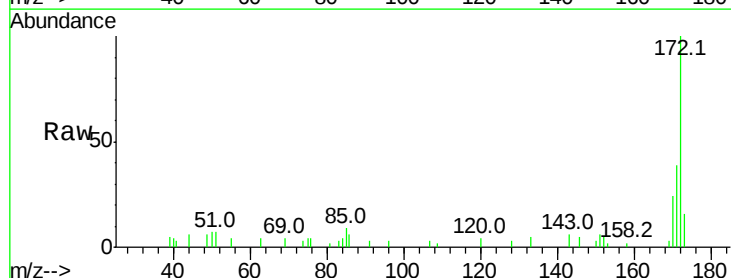


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

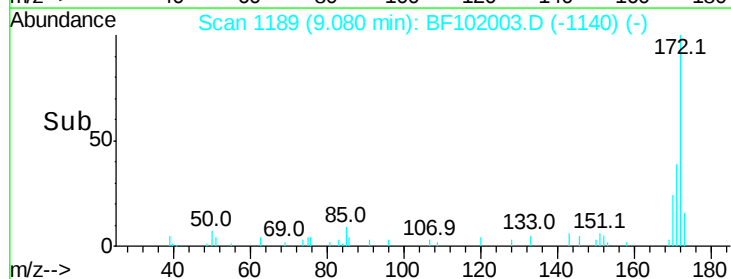
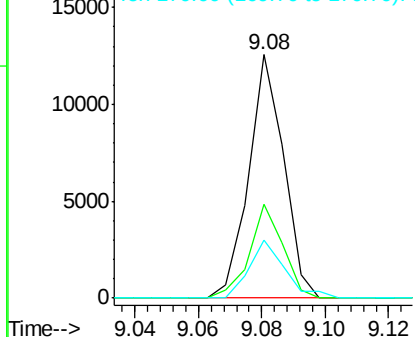


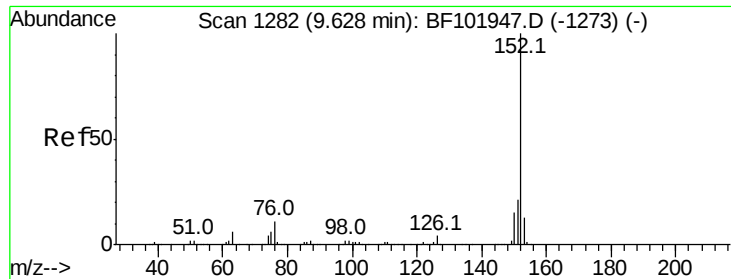
#44
 2-Fluorobiphenyl
 Concen: 0.457 ng
 RT: 9.08 min Scan# 1189
 Delta R.T. -0.01 min
 Lab File: BF102003.D
 Acq: 11 Jan 2018 2:10

Tgt Ion	Ratio	Lower	Upper
172	100		
171	38.7	29.7	44.5
170	23.8	19.6	29.4



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





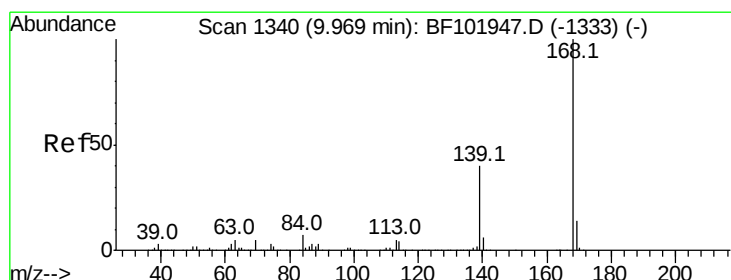
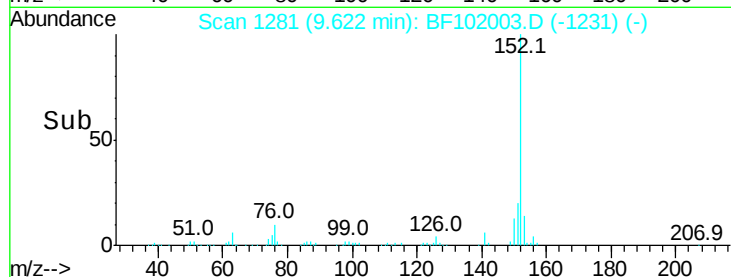
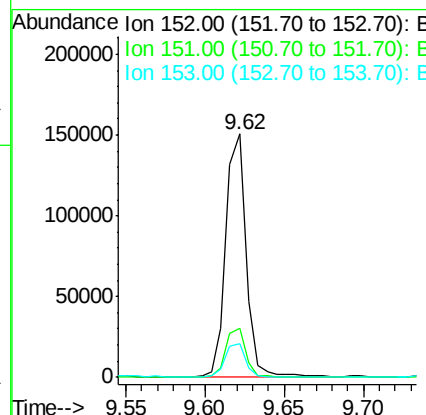
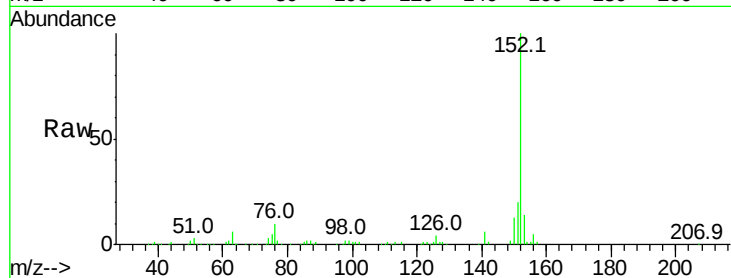
#48
Acenaphthylene
Concen: 3.803 ng
RT: 9.62 min Scan# 1281
Delta R.T. -0.01 min
Lab File: BF102003.D
Acq: 11 Jan 2018 2:10

Instrument :
BNA_F
ClientSampleId :
WC-42-01

Tot Ion	Ratio	Lower	Upper
152	100		
151	20.1	16.3	24.5
153	13.6	10.7	16.1

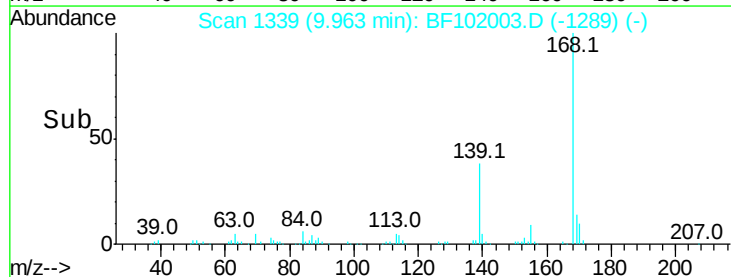
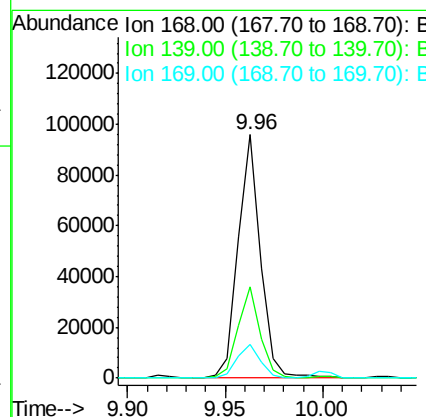
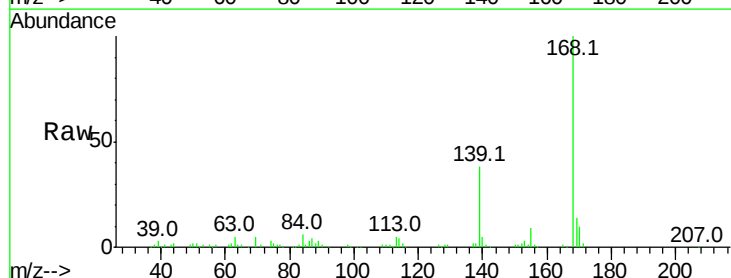
Manual Integrations
APPROVED

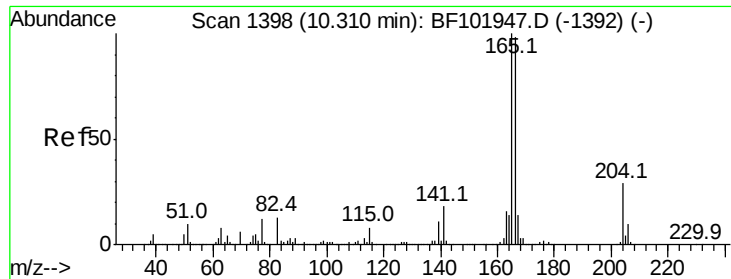
Sohil
1/11/2018 10:53:36 AM



#54
Dibenzofuran
Concen: 2.566 ng
RT: 9.96 min Scan# 1339
Delta R.T. -0.01 min
Lab File: BF102003.D
Acq: 11 Jan 2018 2:10

Tgt Ion	Ratio	Lower	Upper
168	100		
139	37.6	30.1	45.1
169	13.9	10.9	16.3





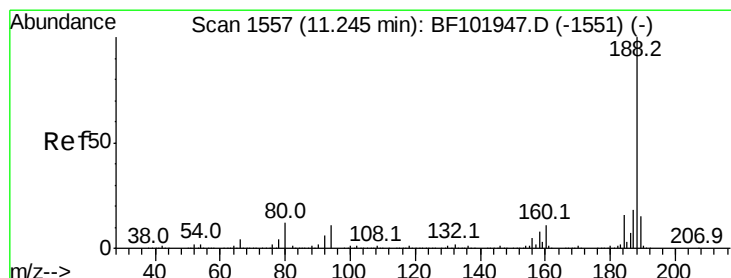
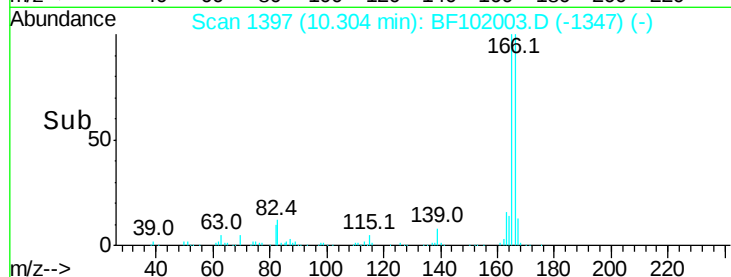
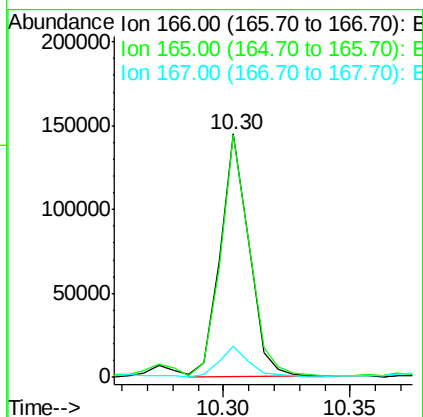
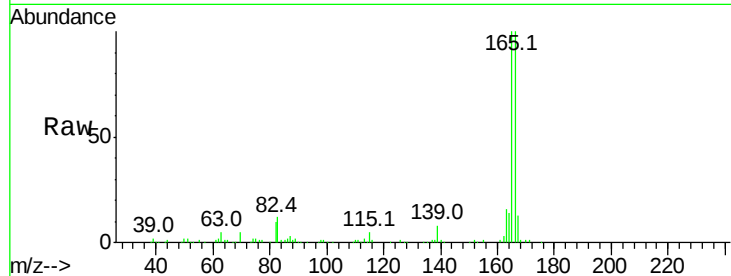
#57
Fluorene
 Concen: 5.515 ng
 RT: 10.30 min Scan# 1397
 Delta R.T. -0.01 min
 Lab File: BF102003.D
 Acq: 11 Jan 2018 2:10

Instrument :
 BNA_F
 ClientSampleId :
 WC-42-01

Tot Ion	Ratio	Resp	Lower	Upper
166	100	113409		
165	99.5	79.8	119.8	
167	12.9	10.6	16.0	

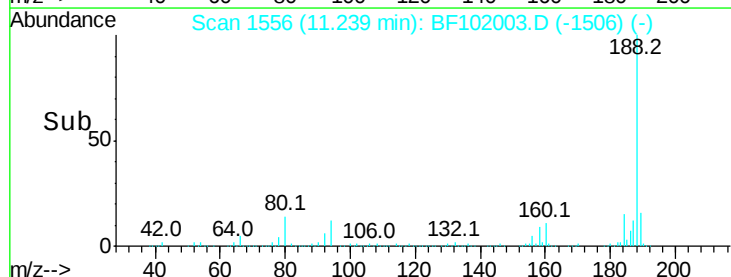
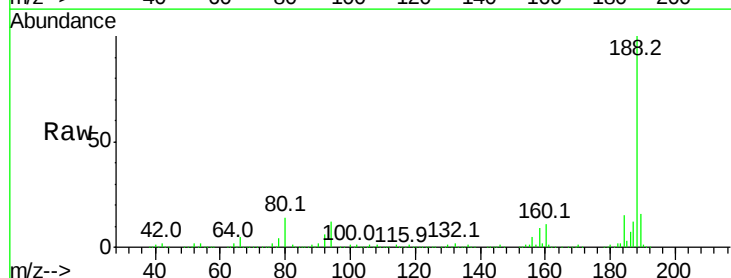
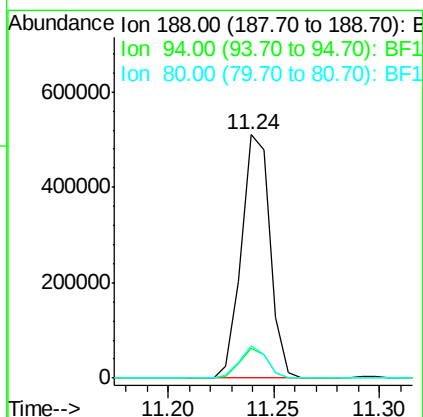
Manual Integrations
 APPROVED

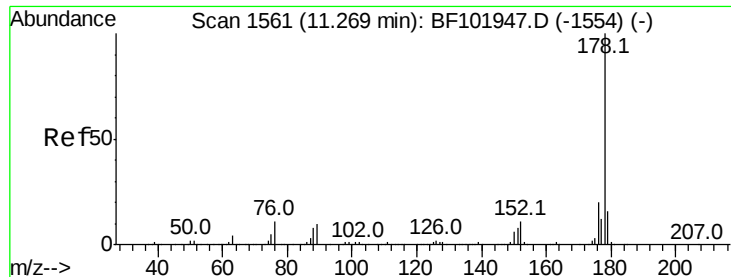
Sohil
 1/11/2018 10:53:36 AM



#63
Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.24 min Scan# 1556
 Delta R.T. -0.01 min
 Lab File: BF102003.D
 Acq: 11 Jan 2018 2:10

Tgt Ion	Ratio	Resp	Lower	Upper
188	100	480095		
94	12.2	8.5	12.7	
80	13.6	9.2	13.8	





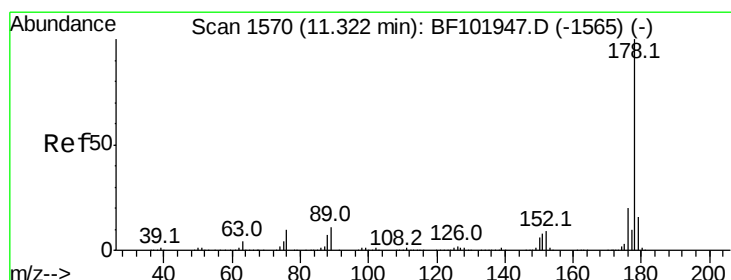
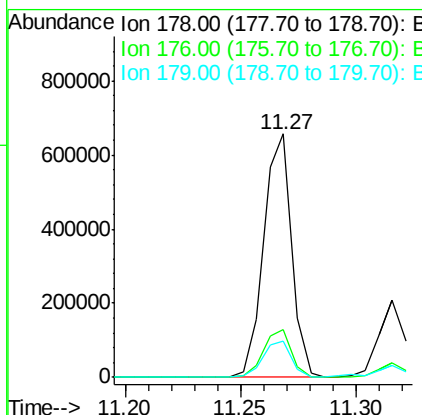
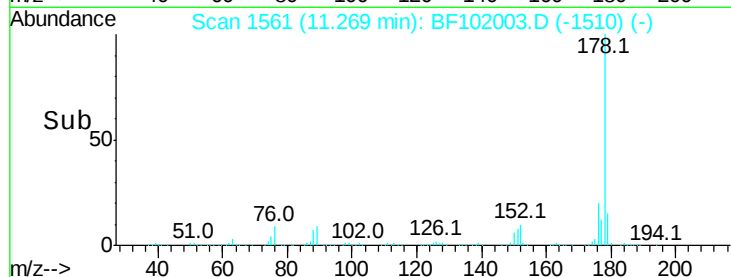
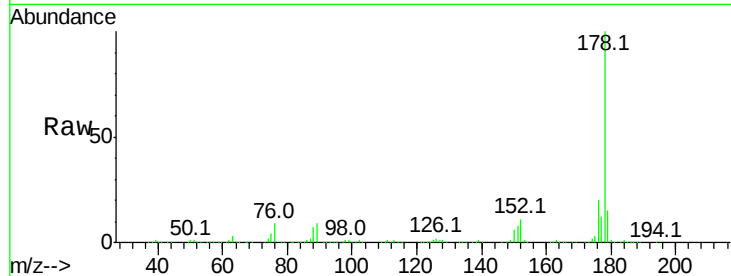
#70
Phenanthrene
Concen: 19.767 ng
RT: 11.27 min Scan# 1561
Delta R.T. -0.00 min
Lab File: BF102003.D
Acq: 11 Jan 2018 2:10

Instrument :
BNA_F
ClientSampleId :
WC-42-01

Tot Ion	Ratio	Resp	Lower	Upper
178	100	554358		
176	19.8	15.8	23.8	
179	14.8	13.0	19.6	

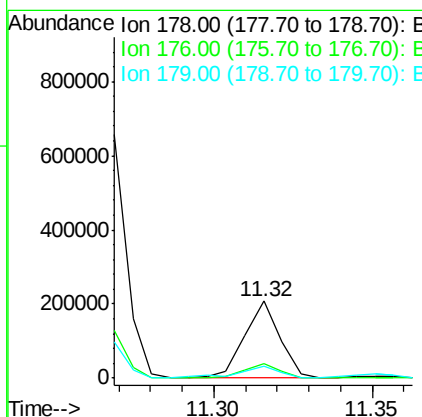
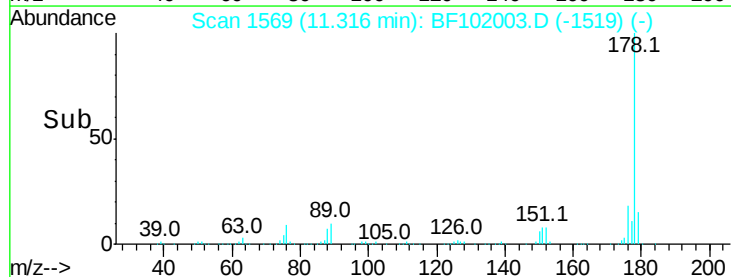
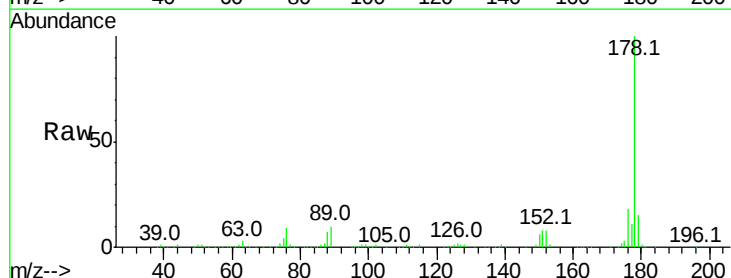
Manual Integrations
APPROVED

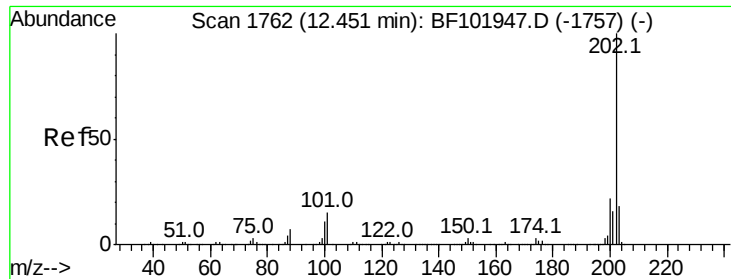
Sohil
1/11/2018 10:53:36 AM



#71
Anthracene
Concen: 5.537 ng
RT: 11.32 min Scan# 1569
Delta R.T. -0.01 min
Lab File: BF102003.D
Acq: 11 Jan 2018 2:10

Tgt Ion	Ratio	Resp	Lower	Upper
178	100	157474		
176	18.2	15.4	23.2	
179	15.5	12.6	19.0	





#74

Fluoranthene

Concen: 18.756 ng

RT: 12.45 min Scan# 1762

Delta R.T. -0.00 min

Lab File: BF102003.D

Acq: 11 Jan 2018 2:10

Instrument :

BNA_F

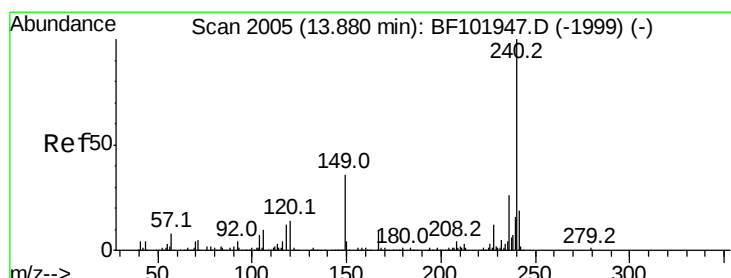
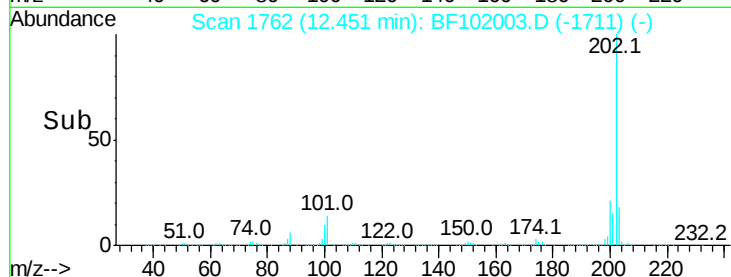
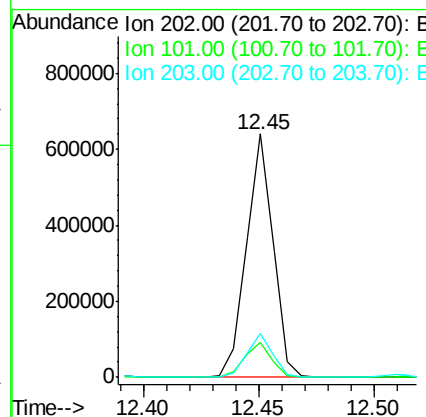
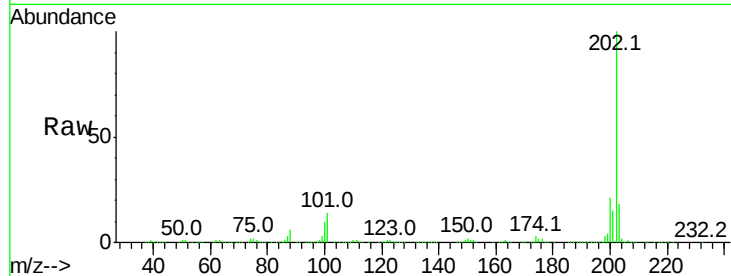
ClientSampleId :

WC-42-01

Tot Ion	Ratio	Resp Lower	Upper
202	100		
101	14.1	0.0	34.1
203	18.2	0.0	38.1

Manual Integrations
APPROVED

Sohil
1/11/2018 10:53:36 AM



#75

Chrysene-d12

Concen: 20.000 ng

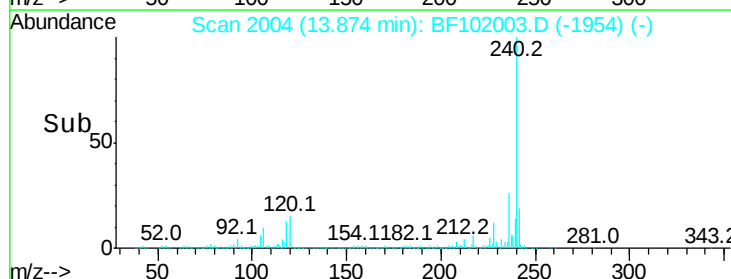
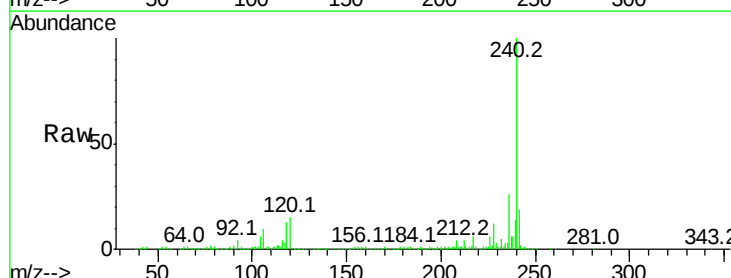
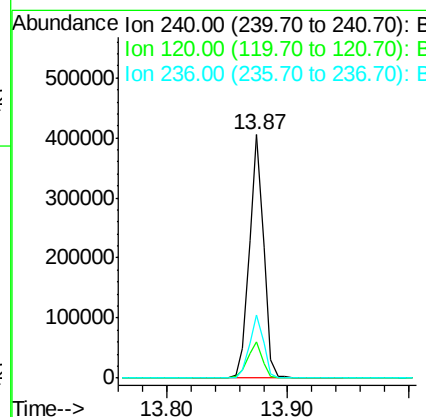
RT: 13.87 min Scan# 2004

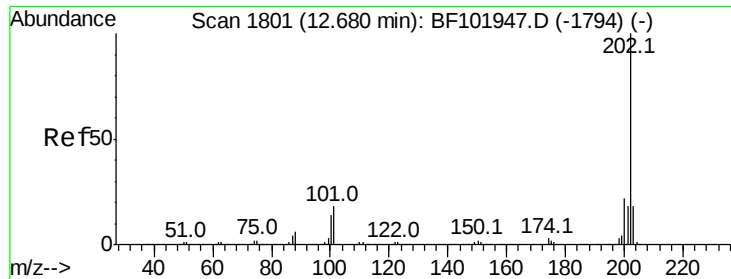
Delta R.T. -0.01 min

Lab File: BF102003.D

Acq: 11 Jan 2018 2:10

Tgt Ion	Ratio	Resp Lower	Upper
240	100		
120	14.9	9.5	14.3#
236	26.1	20.7	31.1





#77

Pvrene

Concen: 15.994 ng

RT: 12.68 min Scan# 1801

Delta R.T. -0.00 min

Lab File: BF102003.D

Acq: 11 Jan 2018 2:10

Instrument :

BNA_F

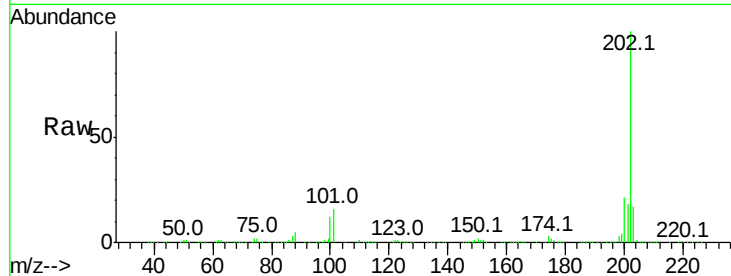
ClientSampleId :

WC-42-01

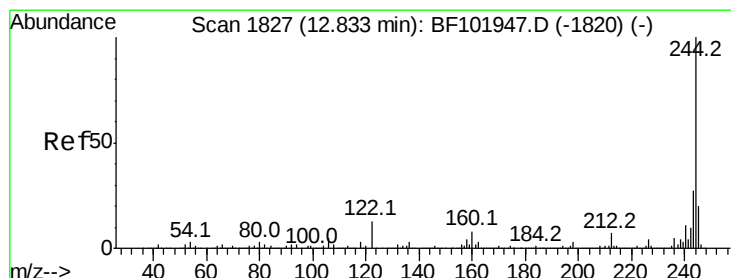
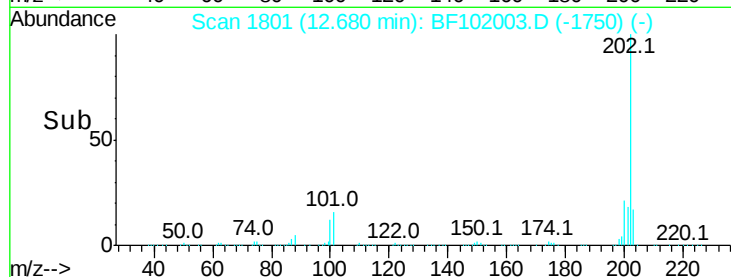
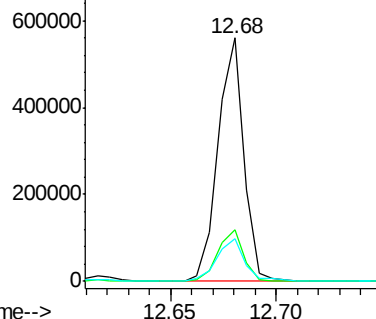
Tot Ion:	202	Resp:	474628
Ion Ratio	Lower	Upper	
202	100		
200	21.2	17.4	26.2
203	17.5	14.3	21.5

Manual Integrations
APPROVED

Sohil
1/11/2018 10:53:36 AM



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



#78

Terphenyl-d14

Concen: 0.426 ng

RT: 12.82 min Scan# 1825

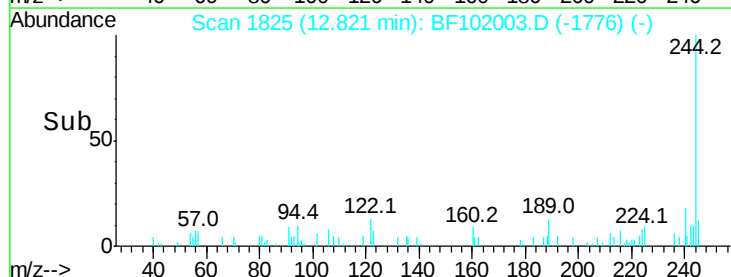
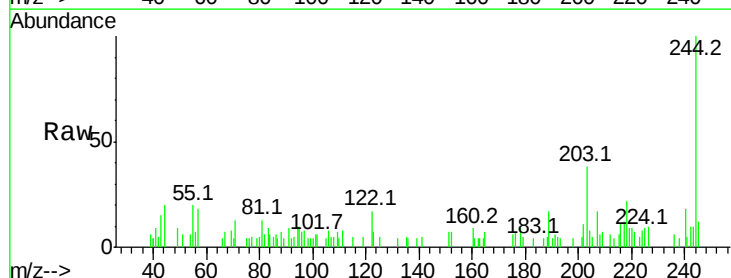
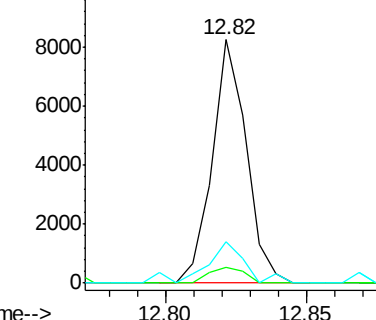
Delta R.T. -0.01 min

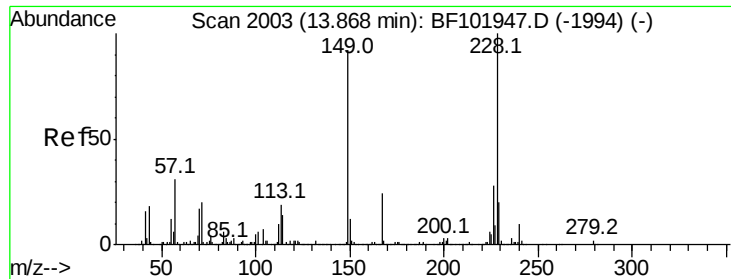
Lab File: BF102003.D

Acq: 11 Jan 2018 2:10

Tgt Ion:	244	Resp:	6896
Ion Ratio	Lower	Upper	
244	100		
212	6.3	5.4	8.0
122	17.1	11.0	16.4#

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





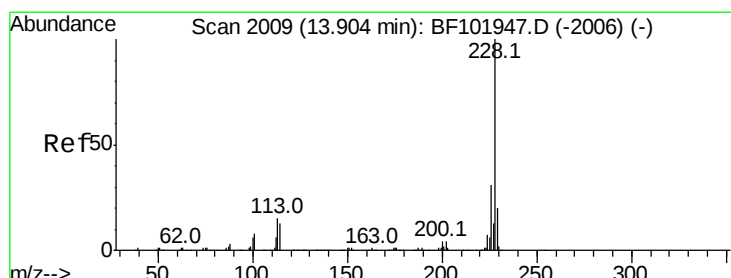
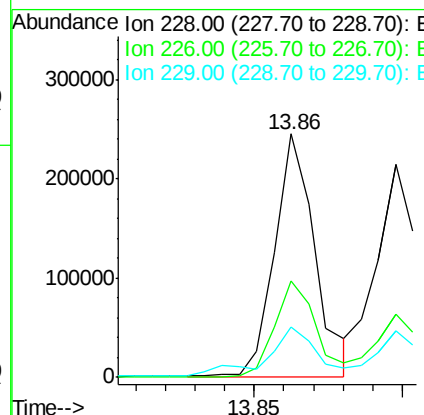
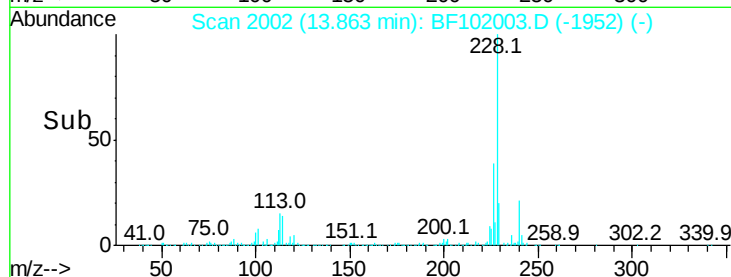
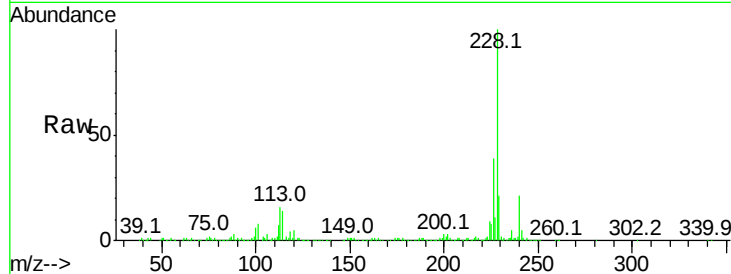
#80
Benzo(a)anthracene
Concen: 10.896 ng m
RT: 13.86 min Scan# 2002
Delta R.T. -0.01 min
Lab File: BF102003.D
Acq: 11 Jan 2018 2:10

Instrument :
BNA_F
ClientSampleId :
WC-42-01

Tot Ion	Ratio	Lower	Upper
228	100		
226	39.4	22.6	33.8#
229	20.9	15.8	23.6

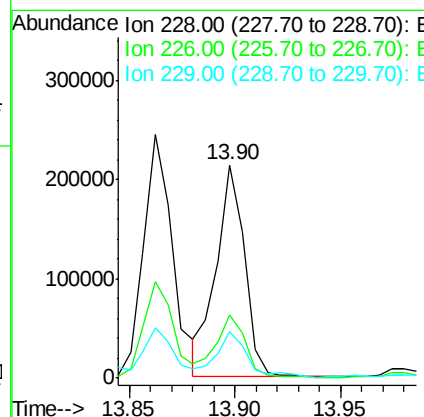
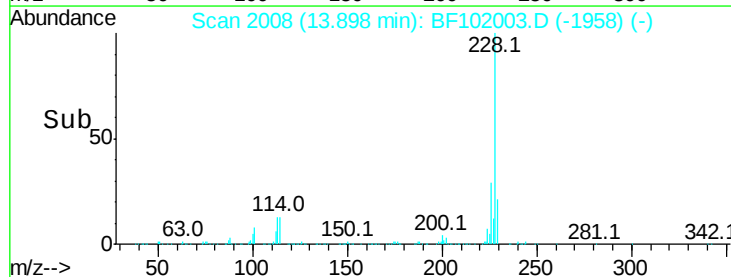
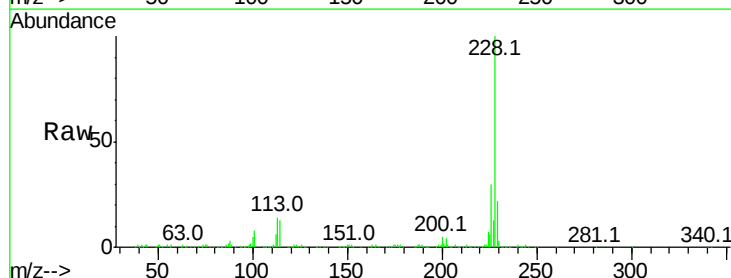
Manual Integrations
APPROVED

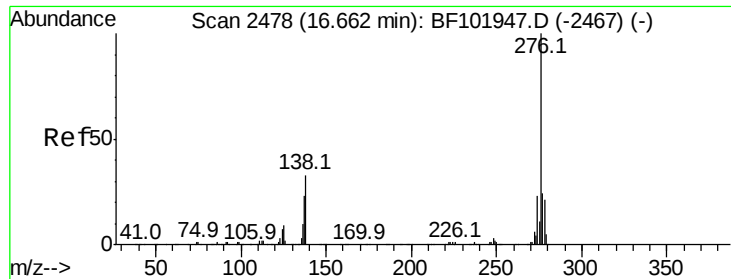
Sohil
1/11/2018 10:53:36 AM



#82
Chrysene
Concen: 9.008 ng
RT: 13.90 min Scan# 2008
Delta R.T. -0.01 min
Lab File: BF102003.D
Acq: 11 Jan 2018 2:10

Tgt Ion	Ratio	Lower	Upper
228	100		
226	29.8	25.0	37.6
229	22.1	16.2	24.4





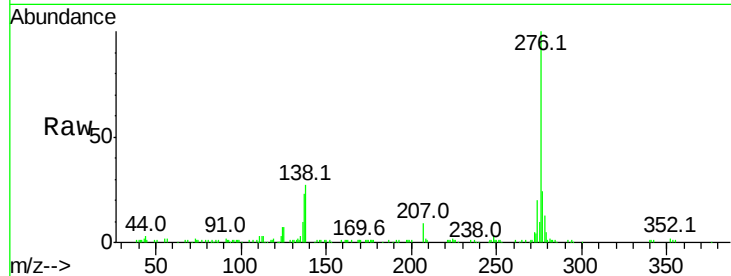
#85
Indeno(1,2,3-cd)pyrene
Concen: 8.457 ng
RT: 16.66 min Scan# 2477
Delta R.T. -0.01 min
Lab File: BF102003.D
Acq: 11 Jan 2018 2:10

Instrument :
BNA_F
ClientSampleId :
WC-42-01

Tot Ion	Ratio	Lower	Upper
276	100		
138	29.8	25.0	37.6
277	24.5	20.1	30.1

Manual Integrations
APPROVED

Sohil
1/11/2018 10:53:36 AM

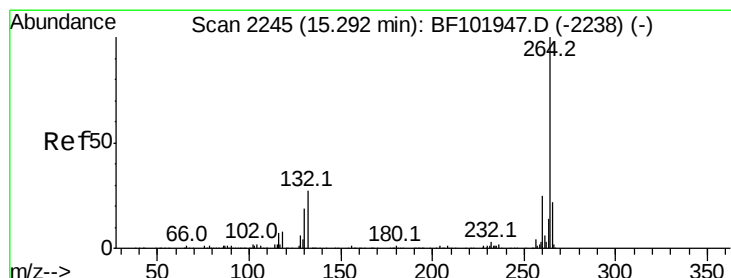
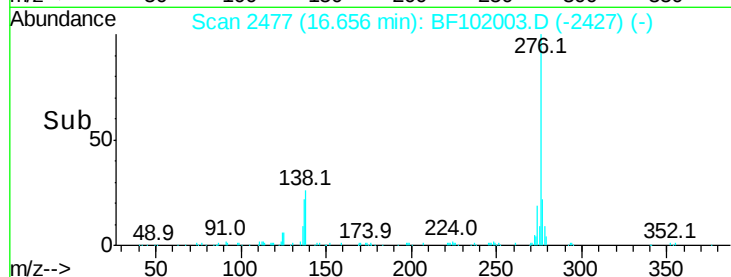
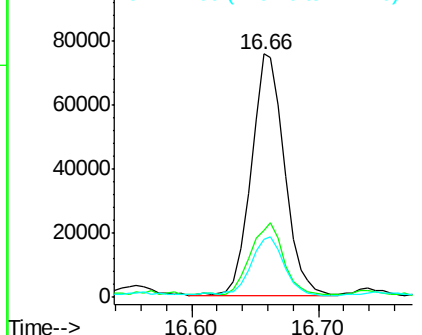


Abundance

Ion 276.00 (275.70 to 276.70): E

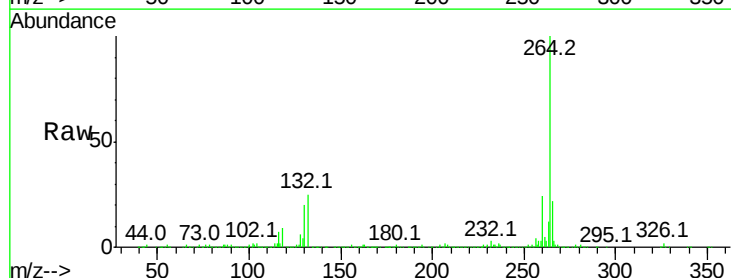
Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E



#86
Perylene-d12
Concen: 20.000 ng
RT: 15.29 min Scan# 2245
Delta R.T. -0.00 min
Lab File: BF102003.D
Acq: 11 Jan 2018 2:10

Tgt Ion	Ratio	Lower	Upper
264	100		
260	24.1	19.2	28.8
265	21.7	17.5	26.3

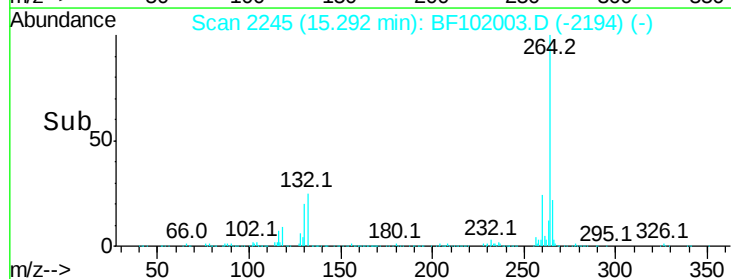
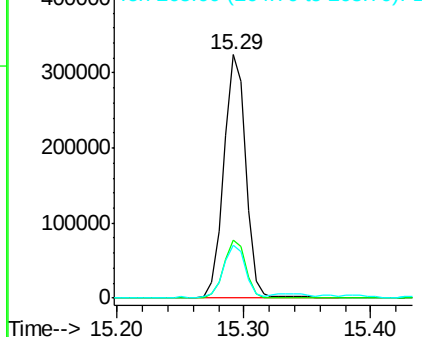


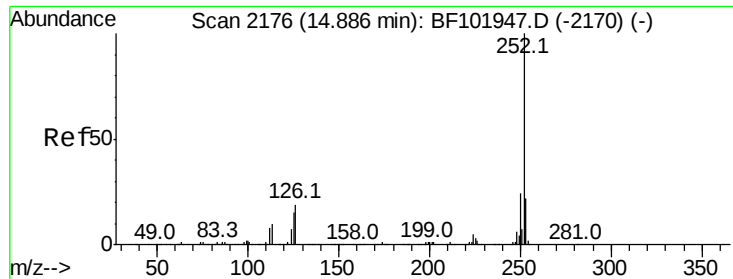
Abundance

Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E





#87

Benzo(b)fluoranthene

Concen: 10.736 ng m

RT: 14.89 min Scan# 2176

Delta R.T. -0.00 min

Lab File: BF102003.D

Acq: 11 Jan 2018 2:10

Instrument :

BNA_F

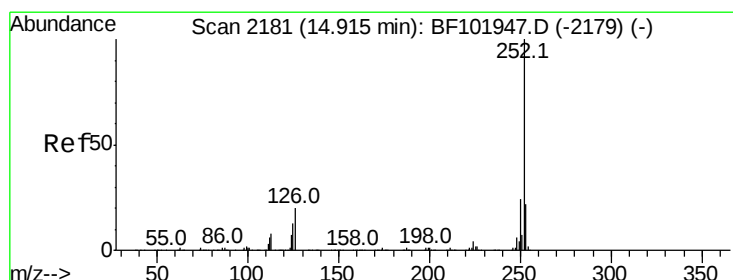
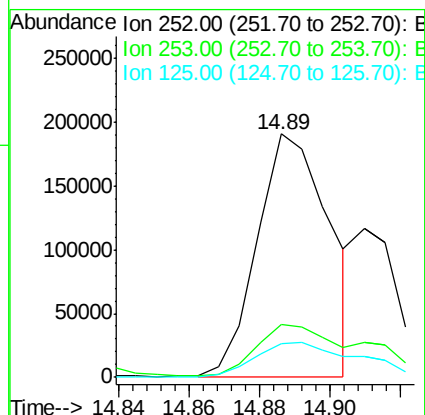
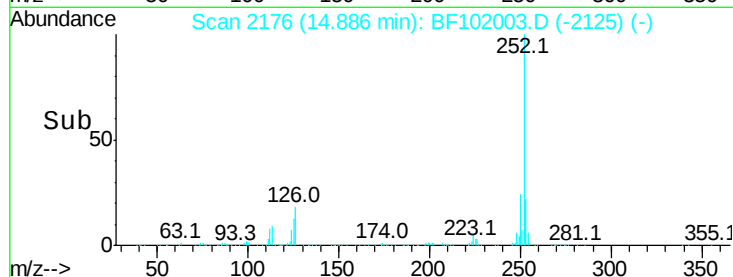
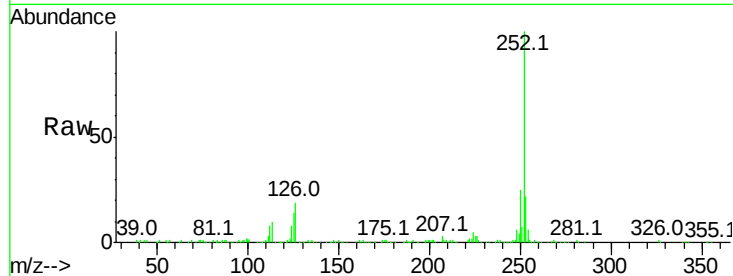
ClientSampled :

WC-42-01

Tot Ion:	252	Resp:	271411
Ion Ratio	Lower	Upper	
252	100		
253	21.9	17.0	25.6
125	13.8	9.0	13.6

Manual Integrations
APPROVED

Sohil
1/11/2018 10:53:36 AM



#88

Benzo(k)fluoranthene

Concen: 3.962 ng m

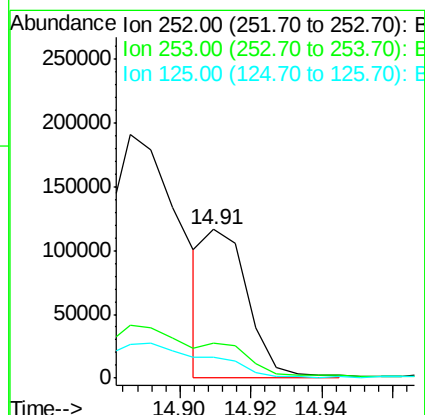
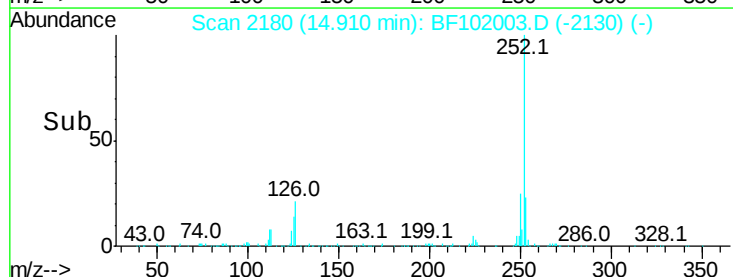
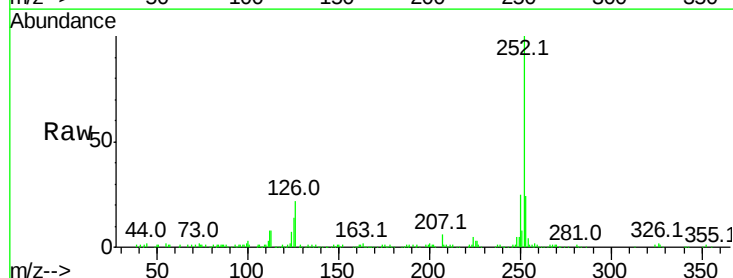
RT: 14.91 min Scan# 2180

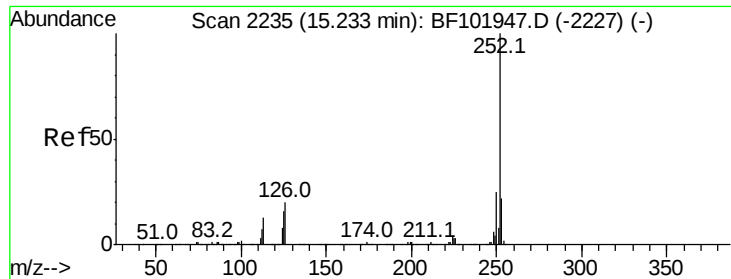
Delta R.T. -0.01 min

Lab File: BF102003.D

Acq: 11 Jan 2018 2:10

Tgt Ion:	252	Resp:	96618
Ion Ratio	Lower	Upper	
252	100		
253	23.8	17.9	26.9
125	14.2	10.2	15.2





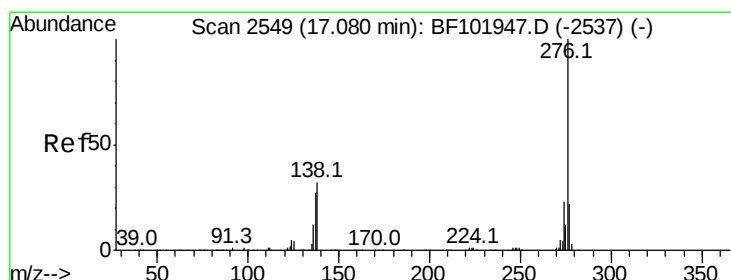
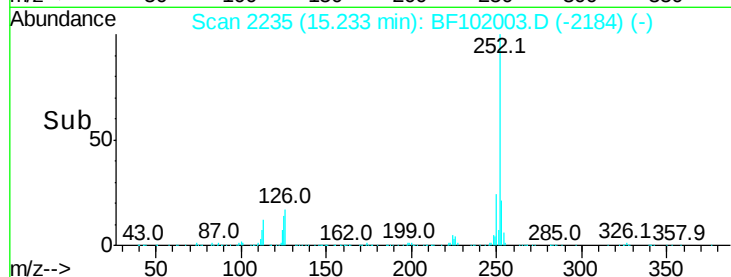
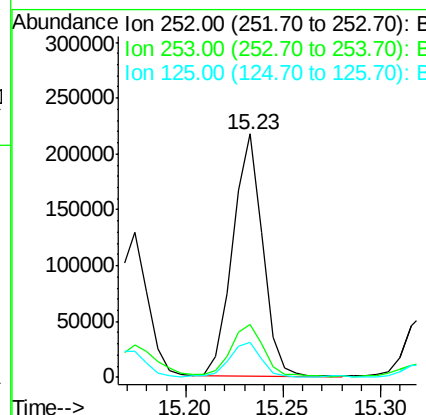
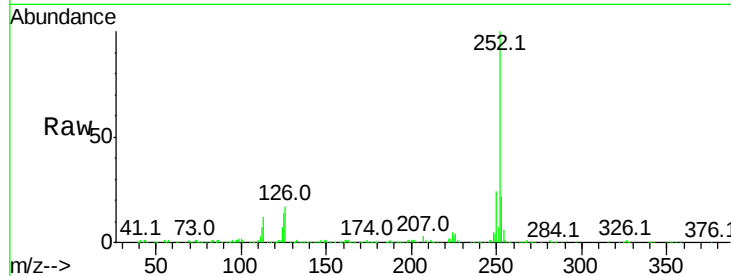
#89
Benzo(a)pyrene
Concen: 10.139 ng
RT: 15.23 min Scan# 2235
Delta R.T. -0.00 min
Lab File: BF102003.D
Acq: 11 Jan 2018 2:10

Instrument :
BNA_F
ClientSampleId :
WC-42-01

Tot Ion	Ratio	Lower	Upper
252	100		
253	21.7	17.1	25.7
125	14.1	9.8	14.6

Manual Integrations
APPROVED

Sohil
1/11/2018 10:53:36 AM



#91
Benzo(g,h,i)perylene
Concen: 6.895 ng
RT: 17.07 min Scan# 2548
Delta R.T. -0.01 min
Lab File: BF102003.D
Acq: 11 Jan 2018 2:10

Tgt Ion	Ratio	Lower	Upper
276	100		
277	23.4	17.9	26.9
138	31.0	21.8	32.8

