

Data Path : Z:\HPCHEM1\BNA F\DATA\BF032718\
 Data File : BF103984.D
 Acq On : 27 Mar 2018 21:40
 Operator : JU/SJ
 Sample : J2050-01
 Misc :
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 TP-2-MH-C

Manual Integrations
 APPROVED

Sohil
 3/28/2018 4:54:31 PM

Quant Time: Mar 28 05:55:50 2018
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF031518.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Mar 23 13:26:17 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.97	152	141486	20.00	ng	0.00
21) Naphthalene-d8	8.25	136	562329	20.00	ng	0.00
38) Acenaphthene-d10	10.01	164	243468	20.00	ng	-0.01
63) Phenanthrene-d10	11.50	188	381395	20.00	ng	0.00
75) Chrysene-d12	14.16	240	258837	20.00	ng	0.00
86) Perylene-d12	15.70	264	238299	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.61	112	1028549	110.57	ng	0.02
7) Phenol-d6	6.61	99	1287200	113.10	ng	0.01
23) Nitrobenzene-d5	7.54	82	776144	96.25	ng	0.00
41) 2,4,6-Tribromophenol	10.81	330	256927	122.73	ng	0.00
44) 2-Fluorobiphenyl	9.33	172	1196208	78.37	ng	0.00
78) Terphenyl-d14	13.09	244	842593	75.56	ng	0.00
Target Compounds						
10) Phenol	6.62	94	37457	3.097	ng	Qvalue # 76
31) Naphthalene	8.27	128	71920	2.532	ng	98
48) Acenaphthylene	9.87	152	102492	4.099	ng	99
49) Dimethylphthalate	9.72	163	107452	5.785	ng	99
70) Phenanthrene	11.53	178	371910	17.826	ng	98
71) Anthracene	11.58	178	113699	5.366	ng	98
74) Fluoranthene	12.73	202	881915	41.031	ng	98
77) Pyrene	12.96	202	970937	51.078	ng	100
80) Benzo(a)anthracene	14.15	228	476256m	29.068	ng	
82) Chrysene	14.19	228	461295m	29.535	ng	
85) Indeno(1,2,3-cd)pyrene	17.29	276	271273	19.889	ng	# 93
87) Benzo(b)fluoranthene	15.25	252	572482m	38.026	ng	
88) Benzo(k)fluoranthene	15.27	252	210453m	14.542	ng	
89) Benzo(a)pyrene	15.64	252	446799	32.720	ng	96
90) Dibenzo(a,h)anthracene	17.29	278	60511m	5.118	ng	
91) Benzo(g,h,i)perylene	17.77	276	273421	23.770	ng	95

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

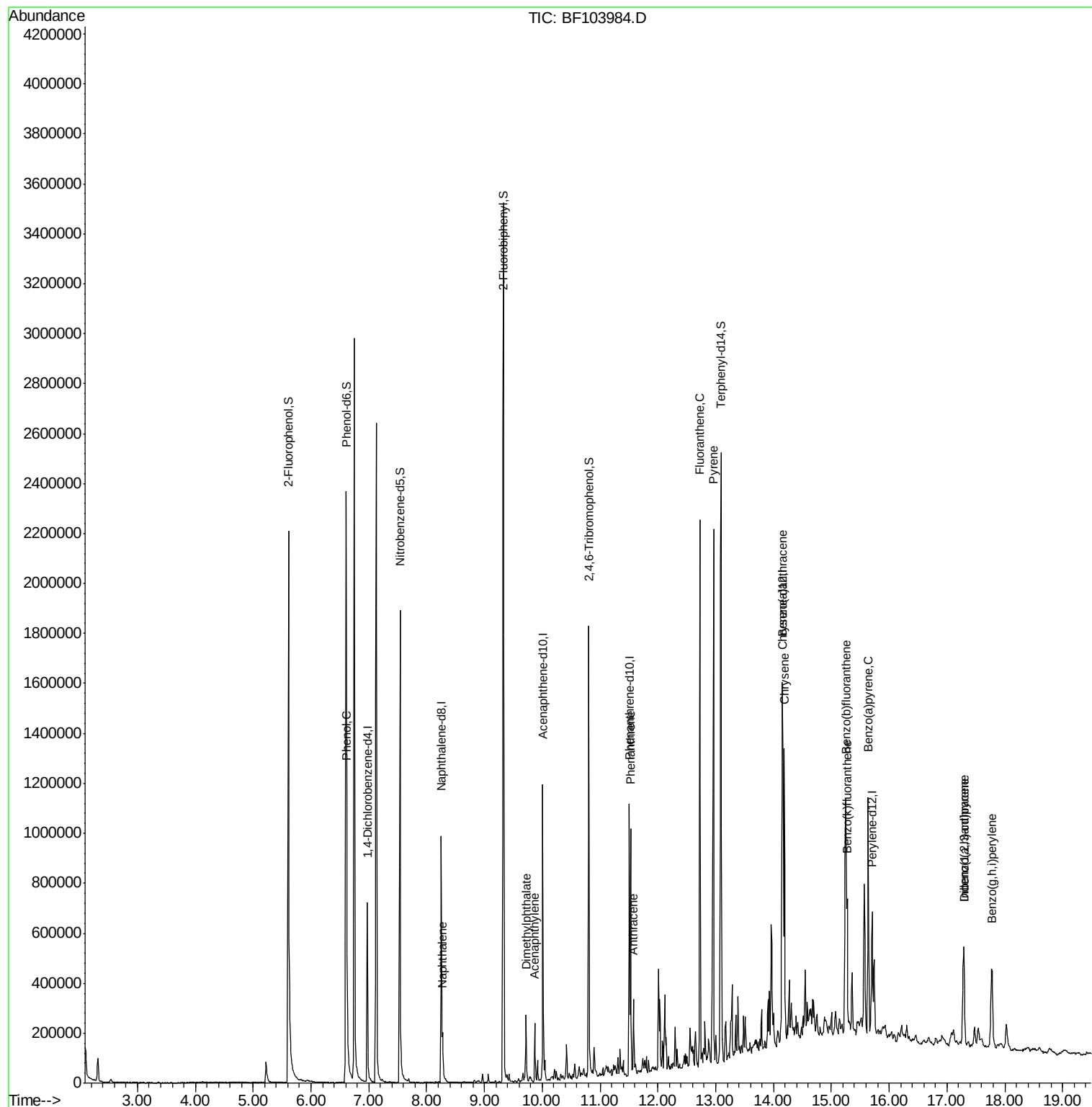
Data Path : Z:\HPCHEM1\BNA F\DATA\BF032718\
Data File : BF103984.D
Acq On : 27 Mar 2018 21:40
Operator : JU/SJ
Sample : J2050-01
Misc :
ALS Vial : 16 Sample Multiplier: 1

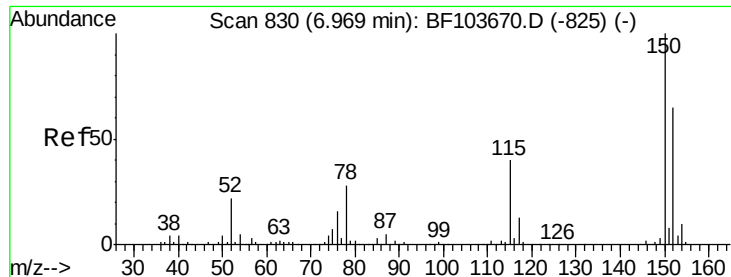
Instrument :
BNA_F
ClientSampled :
TP-2-MH-C

Manual Integrations
APPROVED

Sohil
3/28/2018 4:54:31 PM

Quant Time: Mar 28 05:55:50 2018
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF031518.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Mar 23 13:26:17 2018
Response via : Initial Calibration





#1

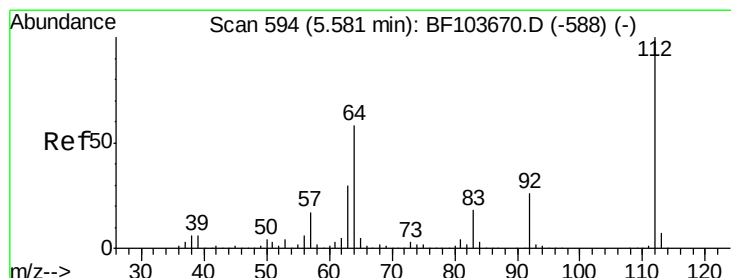
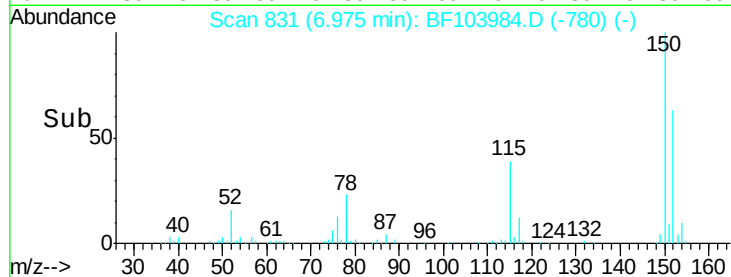
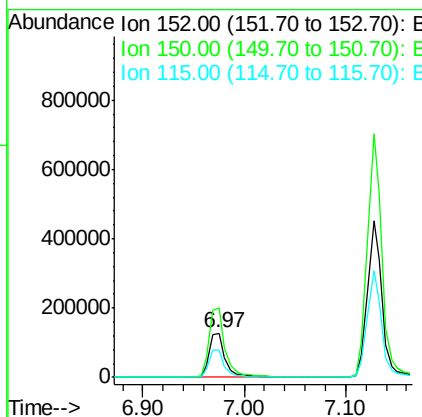
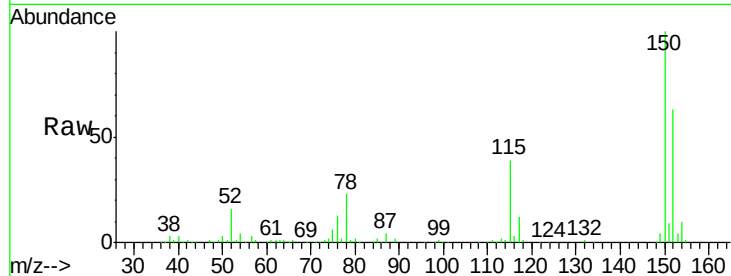
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.97 min Scan# 831
Delta R.T. -0.00 min
Lab File: BF103984.D
Acq: 27 Mar 2018 21:40

Instrument :
BNA_F
ClientSampleId :
TP-2-MH-C

Tot Ion	Ratio	Lower	Upper
152	100		
150	158.2	124.6	186.8
115	61.8	50.1	75.1

Manual Integrations
APPROVED

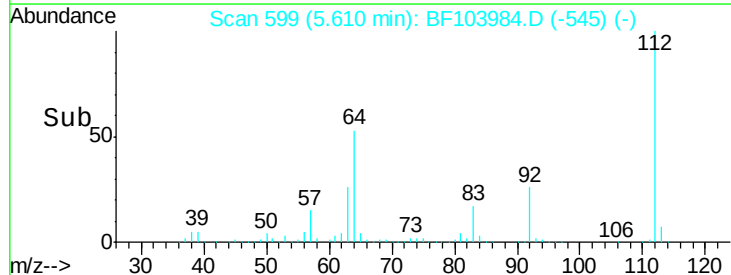
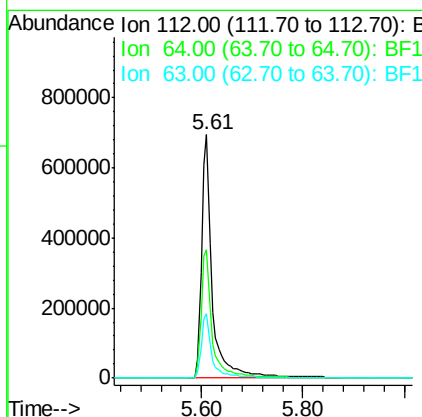
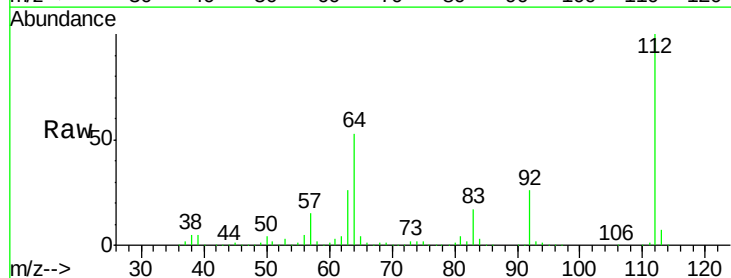
Sohil
3/28/2018 4:54:31 PM

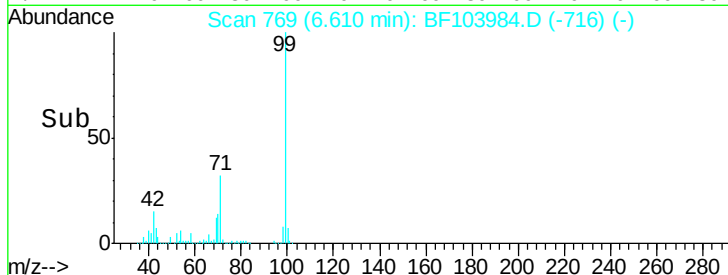
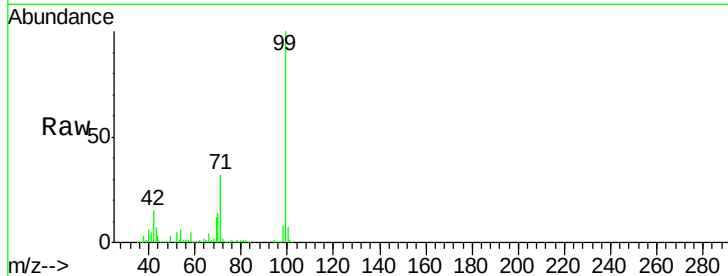
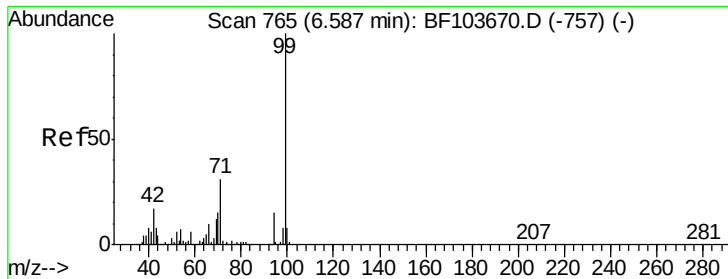


#5

2-Fluorophenol
Concen: 110.570 ng
RT: 5.61 min Scan# 599
Delta R.T. 0.02 min
Lab File: BF103984.D
Acq: 27 Mar 2018 21:40

Tgt Ion	Ratio	Lower	Upper
112	100		
64	52.8	47.9	71.9
63	26.4	23.7	35.5





#7

Phenol-d6

Concen: 113.105 ng

RT: 6.61 min Scan# 769

Delta R.T. 0.01 min

Lab File: BF103984.D

Acq: 27 Mar 2018 21:40

Tot Ion:	99	Resp:	1287200
Ion	Ratio	Lower	Upper
99	100		
42	15.0	14.5	21.7
71	31.6	25.4	38.0

Instrument :

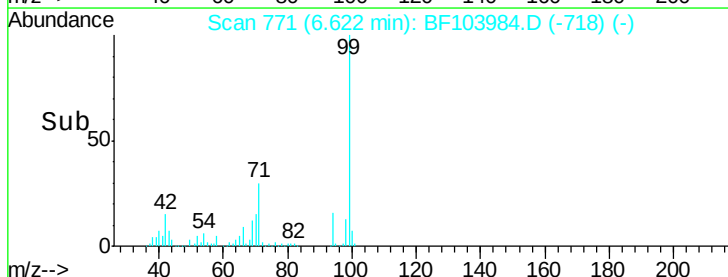
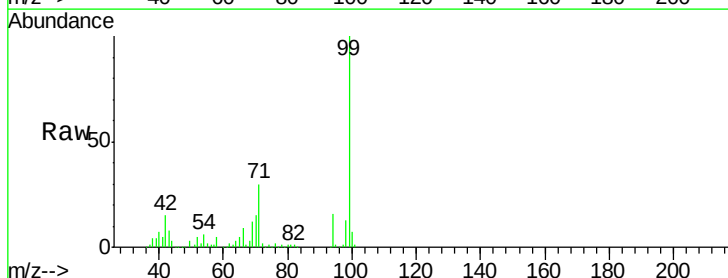
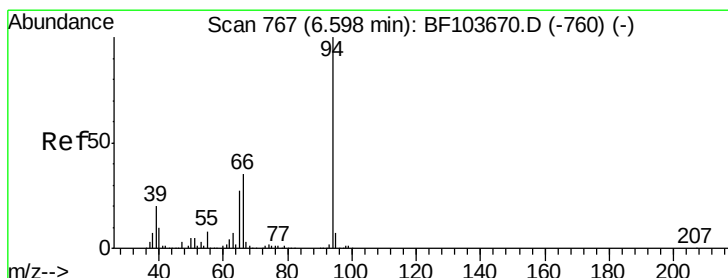
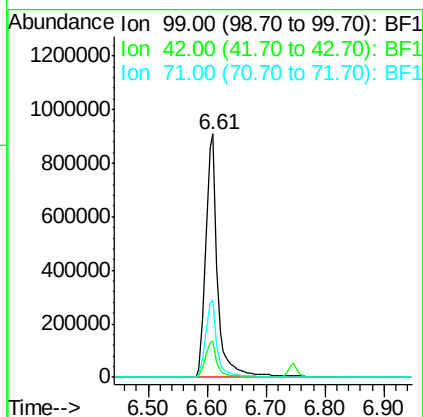
BNA_F

ClientSampleId :

TP-2-MH-C

Manual Integrations
APPROVED

Sohil
3/28/2018 4:54:31 PM



#10

Phenol

Concen: 3.097 ng

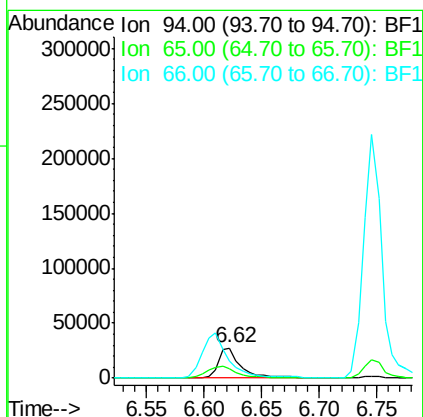
RT: 6.62 min Scan# 771

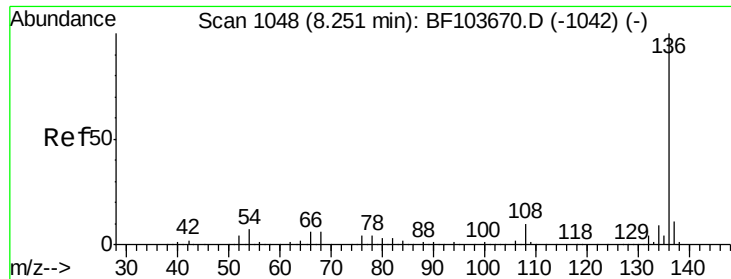
Delta R.T. 0.01 min

Lab File: BF103984.D

Acq: 27 Mar 2018 21:40

Tgt Ion:	94	Resp:	37457
Ion	Ratio	Lower	Upper
94	100		
65	32.6	7.9	47.9
66	57.2	16.2	56.2#





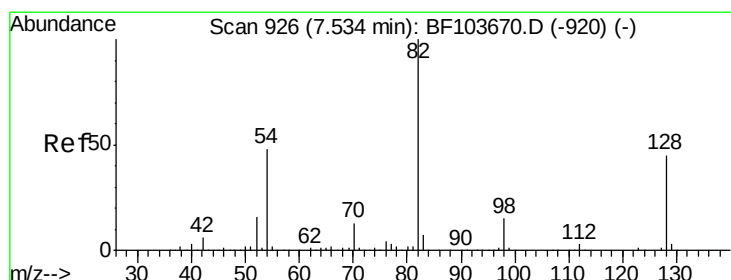
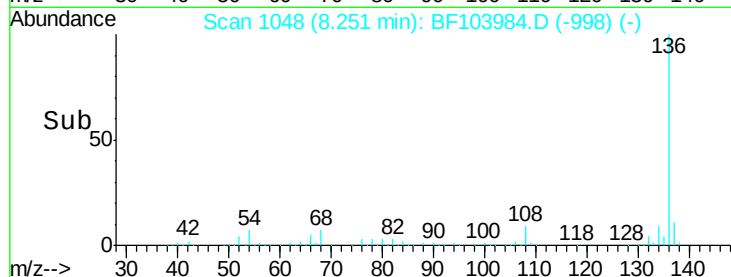
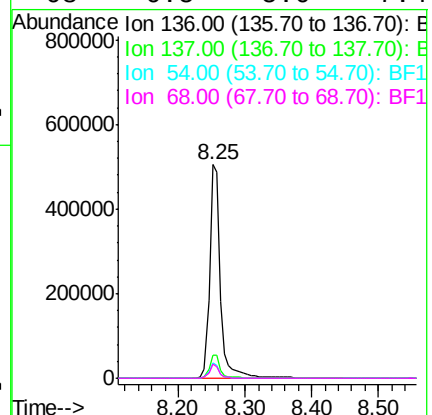
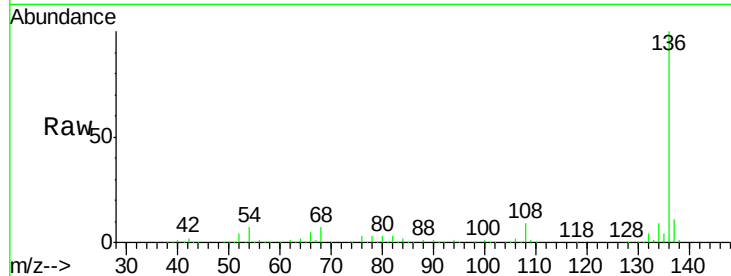
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.25 min Scan# 1048
Delta R.T. -0.01 min
Lab File: BF103984.D
Acq: 27 Mar 2018 21:40

Instrument :
BNA_F
ClientSampleId :
TP-2-MH-C

Tot Ion	Ion	Ratio	Resp	Lower	Upper
136	100		562329		
137	10.8		8.9	13.3	
54	7.1		6.6	9.8	
68	6.5		5.0	7.4	

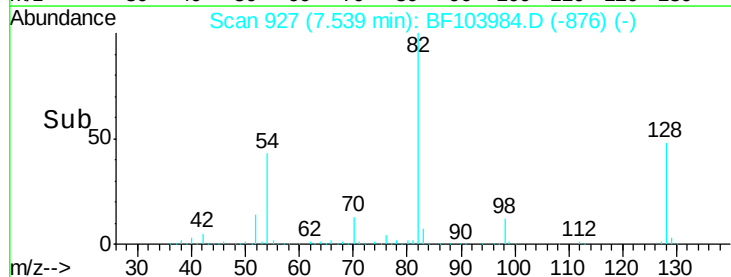
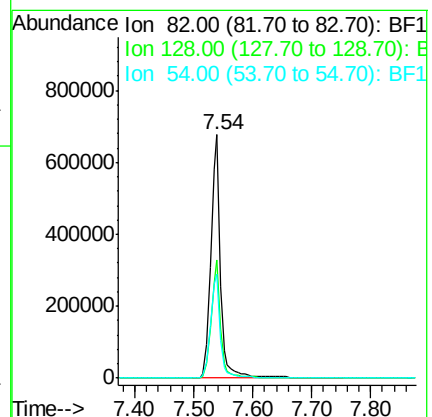
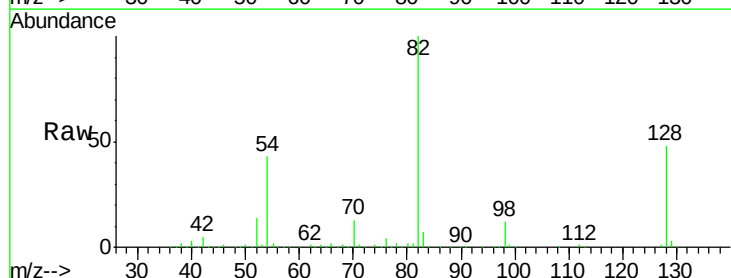
Manual Integrations
APPROVED

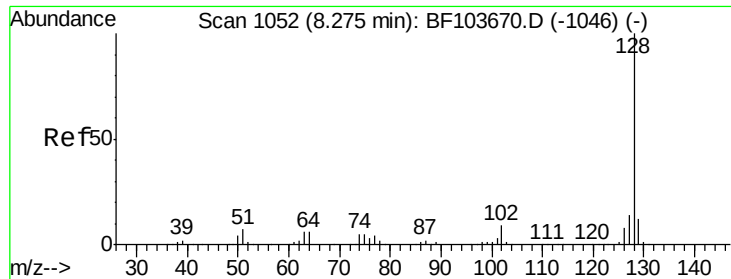
Sohil
3/28/2018 4:54:31 PM



#23
Nitrobenzene-d5
Concen: 96.252 ng
RT: 7.54 min Scan# 927
Delta R.T. -0.00 min
Lab File: BF103984.D
Acq: 27 Mar 2018 21:40

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
82	100		776144		
128	48.3		36.1	54.1	
54	42.8		41.4	62.2	





#31

Naphthalene

Concen: 2.532 ng

RT: 8.27 min Scan# 1052

Delta R.T. -0.01 min

Lab File: BF103984.D

Acq: 27 Mar 2018 21:40

Instrument :

BNA_F

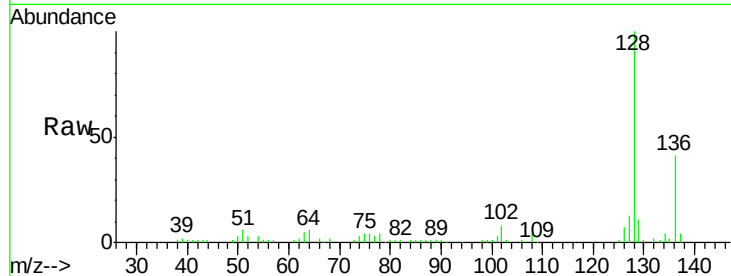
ClientSampled :

TP-2-MH-C

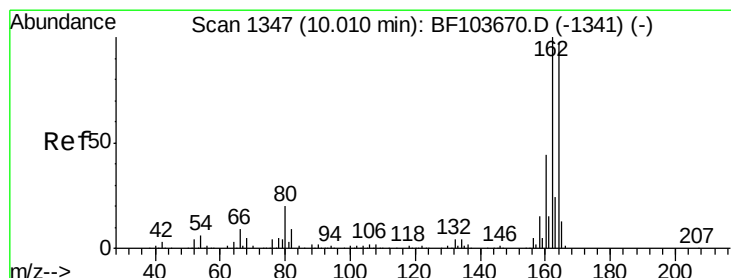
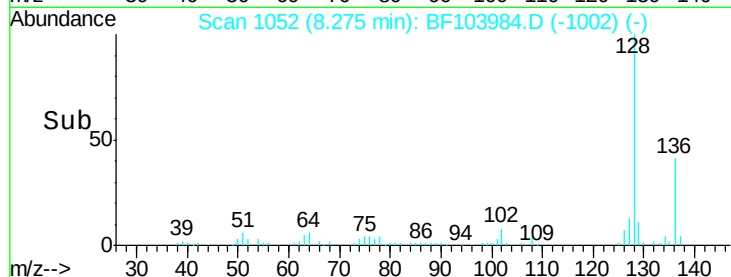
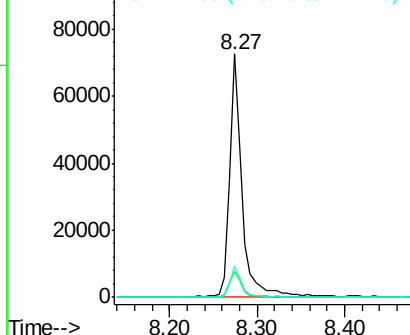
Tot Ion:	128	Resp:	71920
Ion Ratio	Lower	Upper	
128	100		
129	10.8	8.8	13.2
127	12.6	10.9	16.3

Manual Integrations
APPROVED

Sohil
3/28/2018 4:54:31 PM



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



#38

Acenaphthene-d10

Concen: 20.000 ng

RT: 10.01 min Scan# 1347

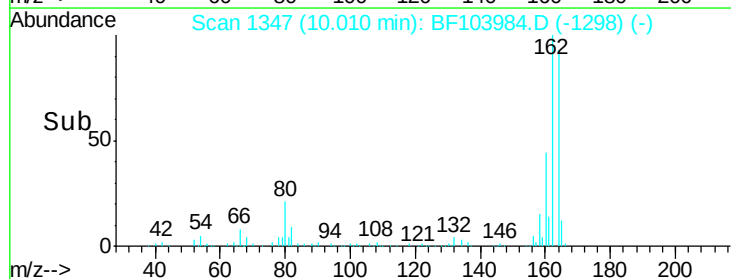
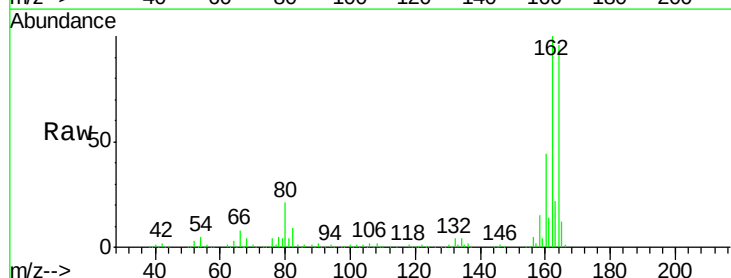
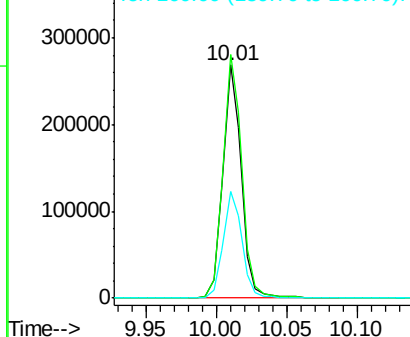
Delta R.T. -0.01 min

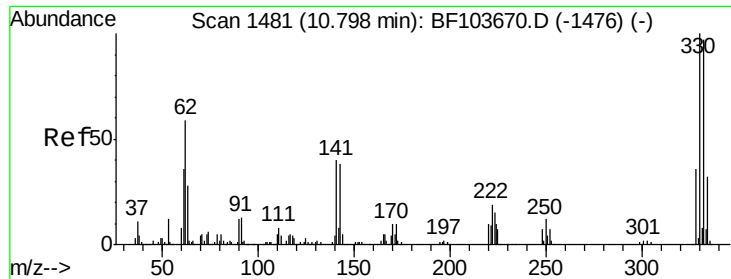
Lab File: BF103984.D

Acq: 27 Mar 2018 21:40

Tgt Ion:	164	Resp:	243468
Ion Ratio	Lower	Upper	
164	100		
162	104.5	86.1	129.1
160	45.6	38.3	57.5

Abundance Ion 164.00 (163.70 to 164.70): E
Ion 162.00 (161.70 to 162.70): E
Ion 160.00 (159.70 to 160.70): E





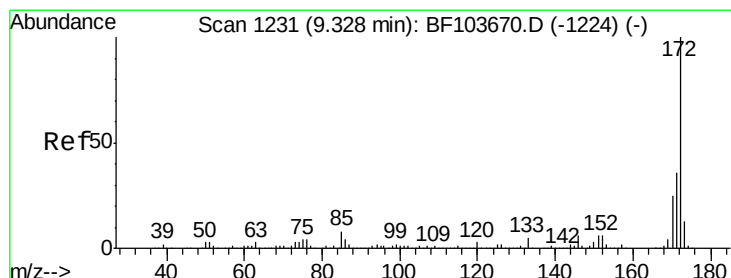
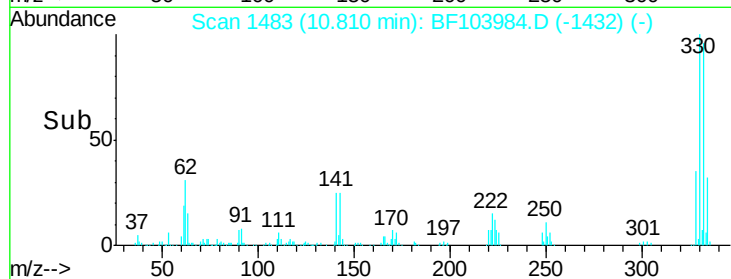
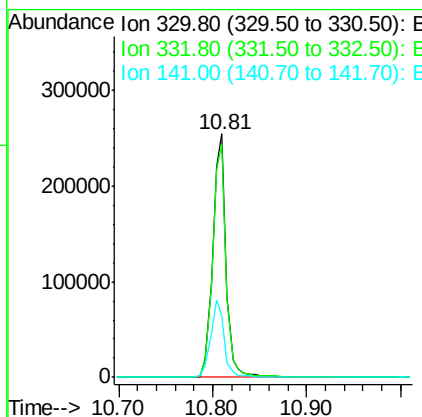
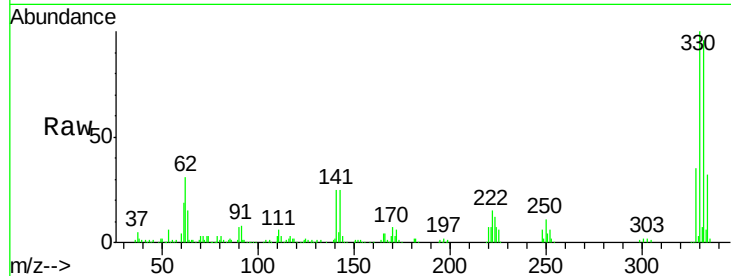
#41
 2,4,6-Tribromophenol
 Concen: 122.735 ng
 RT: 10.81 min Scan# 1483
 Delta R.T. -0.00 min
 Lab File: BF103984.D
 Acq: 27 Mar 2018 21:40

Instrument :
 BNA_F
 ClientSampleId :
 TP-2-MH-C

Tot Ion	Ratio	Lower	Upper
330	100		
332	96.6	77.0	115.6
141	32.6	29.9	44.9

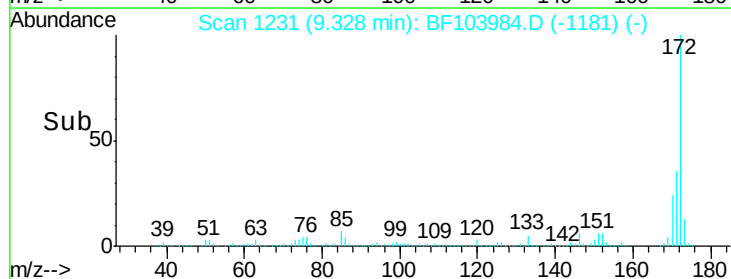
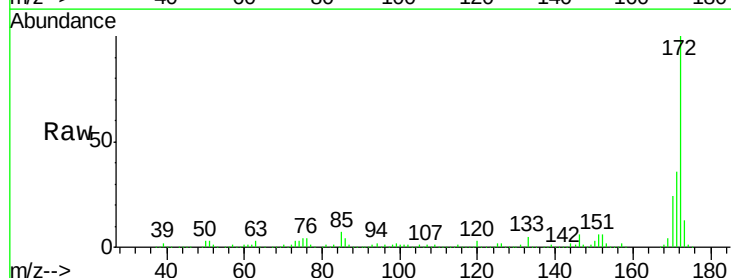
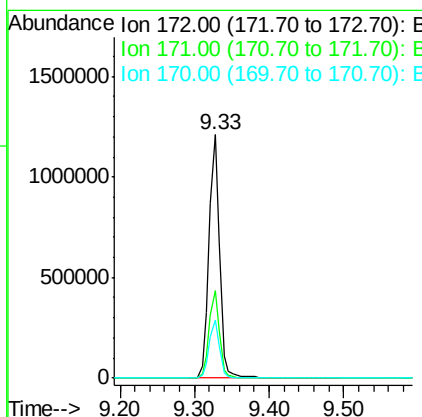
Manual Integrations
 APPROVED

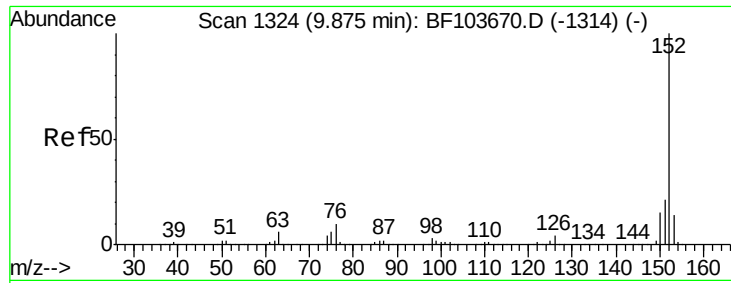
Sohil
 3/28/2018 4:54:31 PM



#44
 2-Fluorobiphenyl
 Concen: 78.373 ng
 RT: 9.33 min Scan# 1231
 Delta R.T. -0.01 min
 Lab File: BF103984.D
 Acq: 27 Mar 2018 21:40

Tgt Ion	Ratio	Lower	Upper
172	100		
171	36.2	29.7	44.5
170	24.0	19.6	29.4





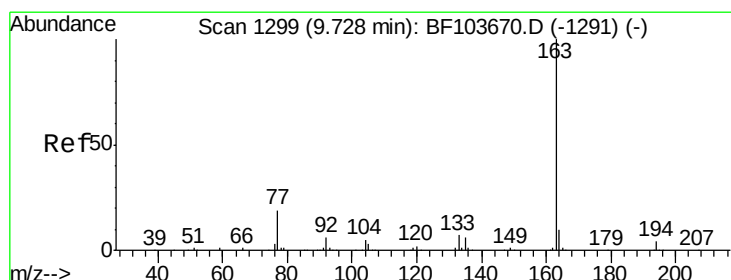
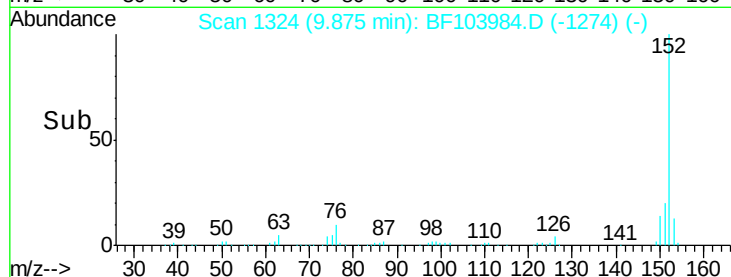
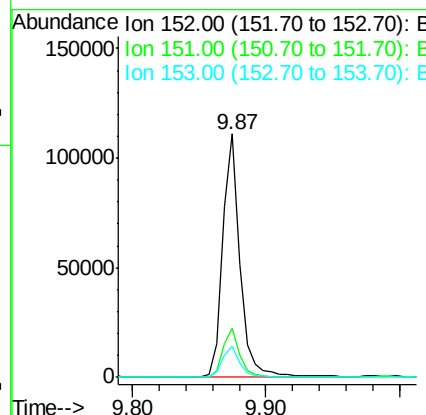
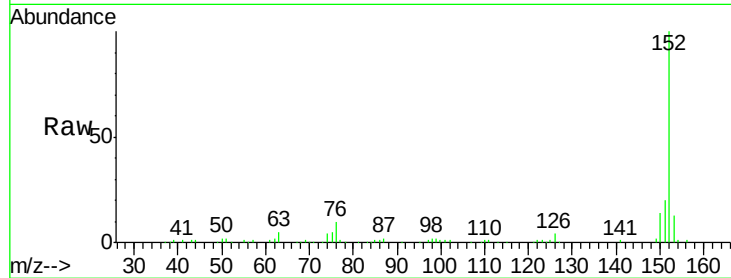
#48
Acenaphthylene
Concen: 4.099 ng
RT: 9.87 min Scan# 1324
Delta R.T. -0.01 min
Lab File: BF103984.D
Acq: 27 Mar 2018 21:40

Instrument :
BNA_F
ClientSampled :
TP-2-MH-C

Tot Ion:	152	Resp:	102492
Ion Ratio	Lower	Upper	
152	100		
151	19.9	16.3	24.5
153	12.8	10.7	16.1

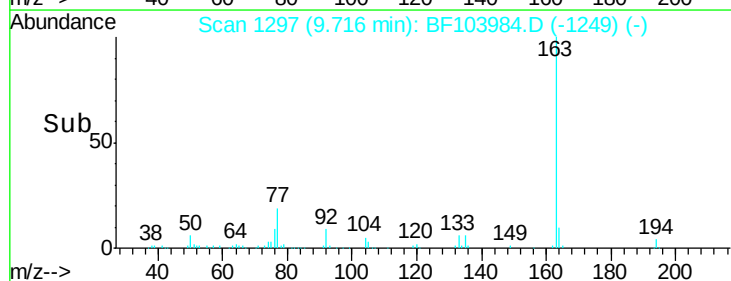
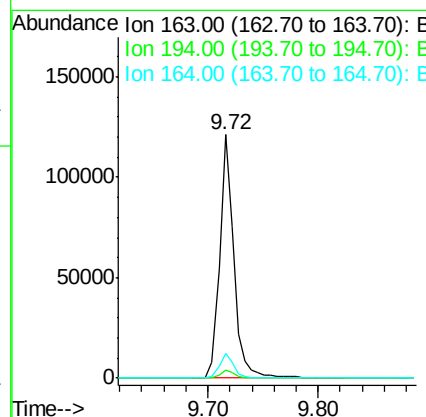
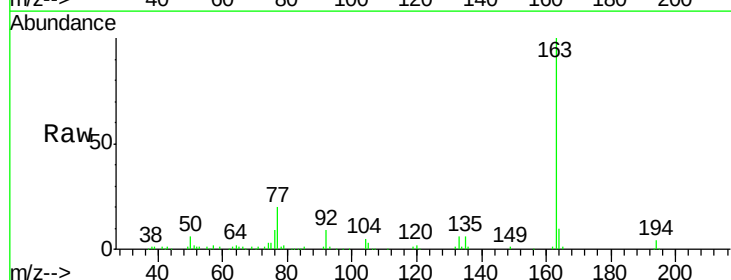
Manual Integrations
APPROVED

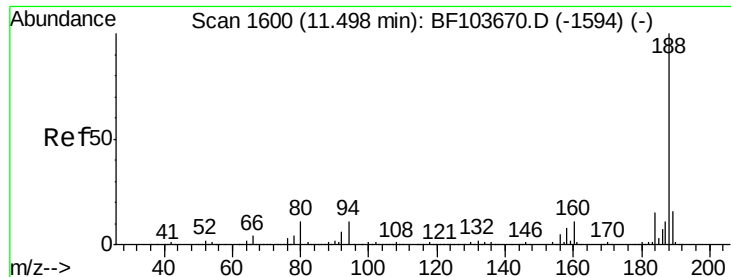
Sohil
3/28/2018 4:54:31 PM



#49
Dimethylphthalate
Concen: 5.785 ng
RT: 9.72 min Scan# 1297
Delta R.T. -0.02 min
Lab File: BF103984.D
Acq: 27 Mar 2018 21:40

Tgt Ion:	163	Resp:	107452
Ion Ratio	Lower	Upper	
163	100		
194	3.6	2.7	4.1
164	10.4	8.2	12.2





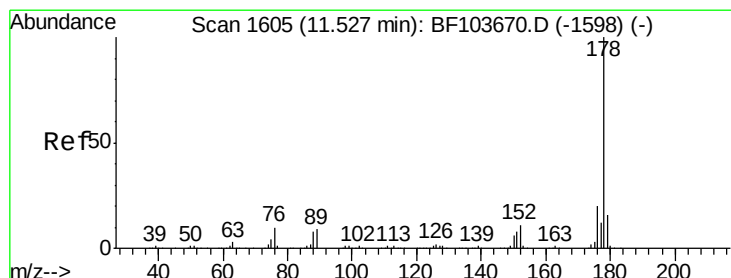
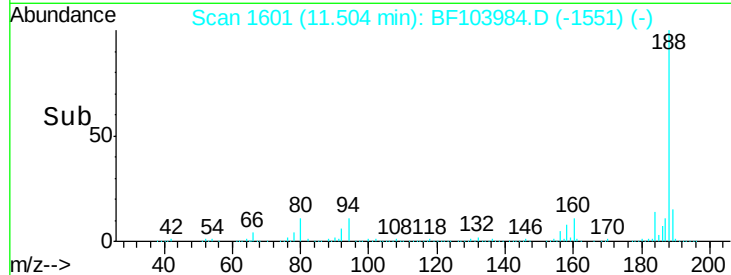
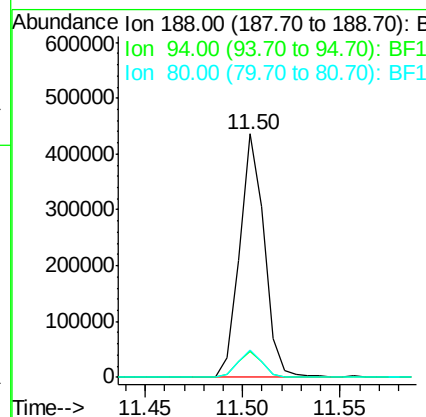
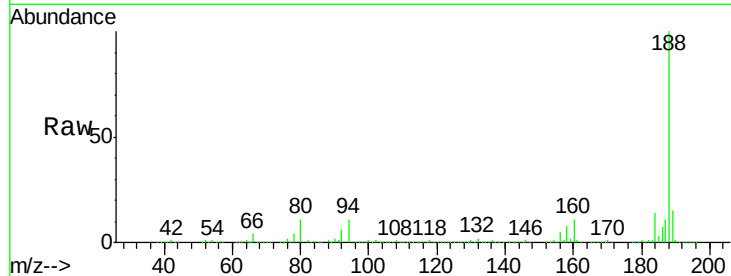
#63
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.50 min Scan# 1601
Delta R.T. -0.01 min
Lab File: BF103984.D
Acq: 27 Mar 2018 21:40

Instrument :
BNA_F
ClientSampled :
TP-2-MH-C

Tot Ion	Ratio	Resp Lower	Upper
188	100		
94	10.6	8.5	12.7
80	11.2	9.2	13.8

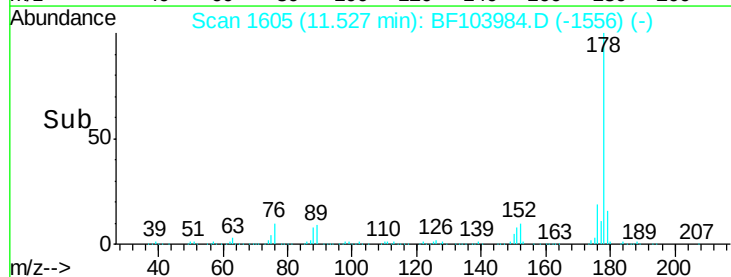
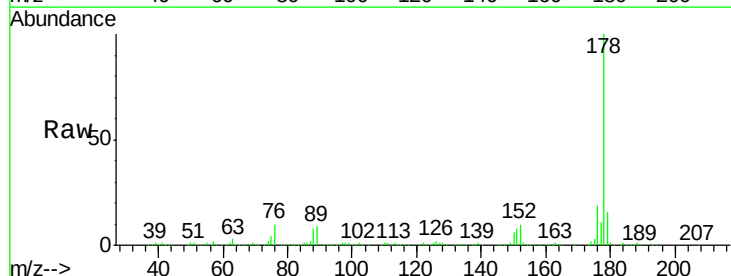
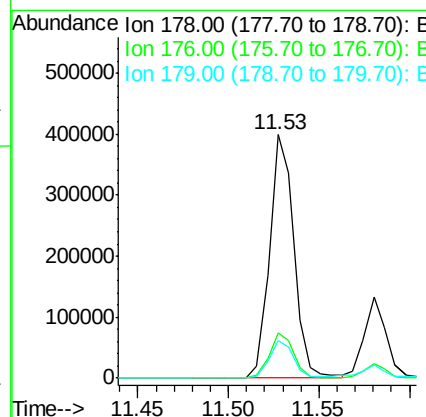
Manual Integrations
APPROVED

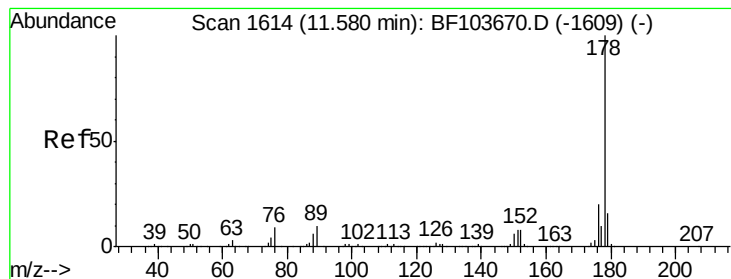
Sohil
3/28/2018 4:54:31 PM



#70
Phenanthrene
Concen: 17.826 ng
RT: 11.53 min Scan# 1605
Delta R.T. -0.01 min
Lab File: BF103984.D
Acq: 27 Mar 2018 21:40

Tgt Ion	Ratio	Resp Lower	Upper
178	100		
176	18.7	15.8	23.8
179	15.7	13.0	19.6





#71

Anthracene

Concen: 5.366 ng

RT: 11.58 min Scan# 1614

Delta R.T. -0.01 min

Lab File: BF103984.D

Acq: 27 Mar 2018 21:40

Instrument :

BNA_F

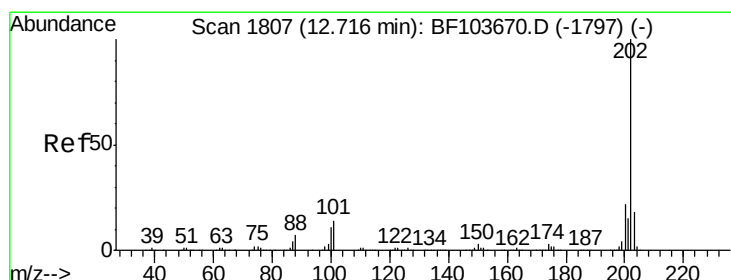
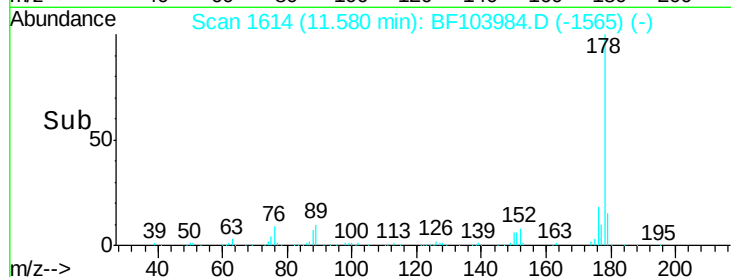
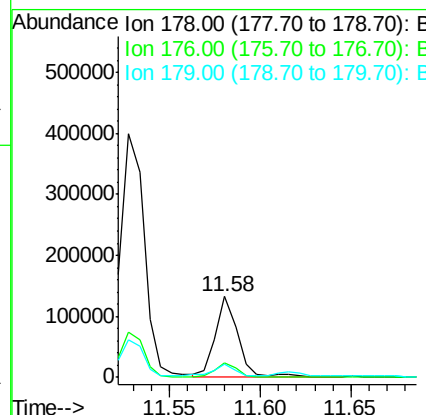
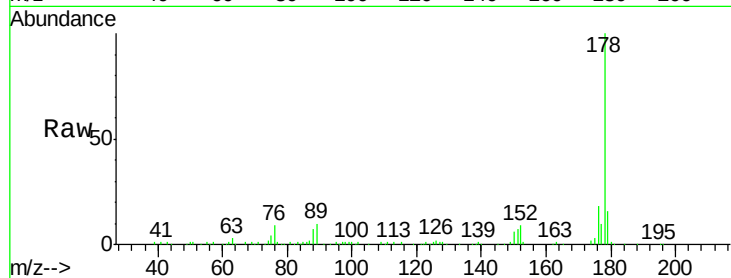
ClientSampled :

TP-2-MH-C

Tot Ion:	178	Resp:	113699
Ion Ratio	Lower	Upper	
178	100		
176	18.1	15.4	23.2
179	15.7	12.6	19.0

Manual Integrations
APPROVED

Sohil
3/28/2018 4:54:31 PM



#74

Fluoranthene

Concen: 41.031 ng

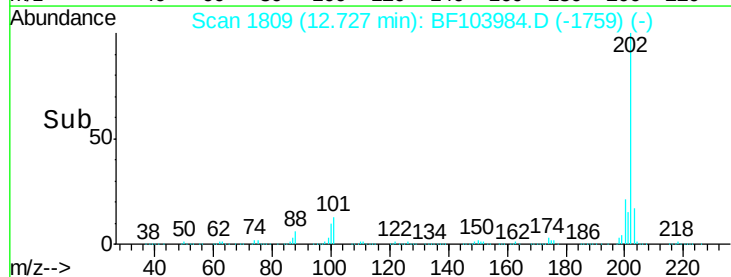
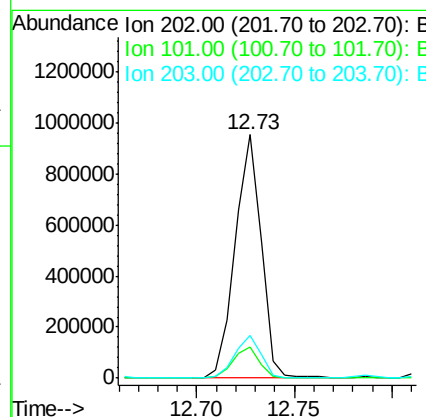
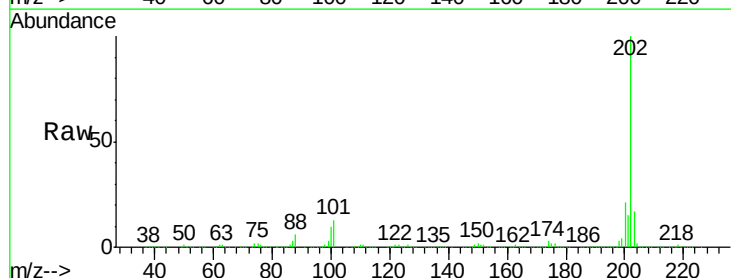
RT: 12.73 min Scan# 1809

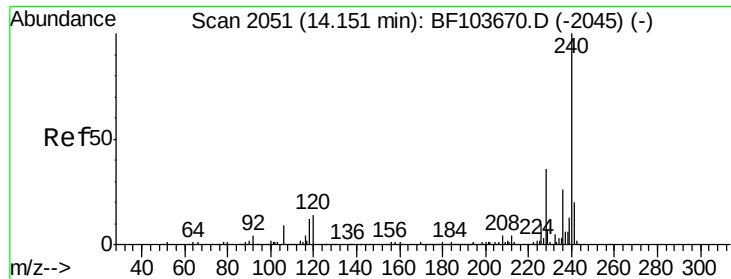
Delta R.T. -0.01 min

Lab File: BF103984.D

Acq: 27 Mar 2018 21:40

Tgt Ion:	202	Resp:	881915
Ion Ratio	Lower	Upper	
202	100		
101	12.6	0.0	34.1
203	17.5	0.0	38.1





#75

Chrysene-d12

Concen: 20.000 ng

RT: 14.16 min Scan# 2053

Delta R.T. -0.01 min

Lab File: BF103984.D

Acq: 27 Mar 2018 21:40

Instrument :

BNA_F

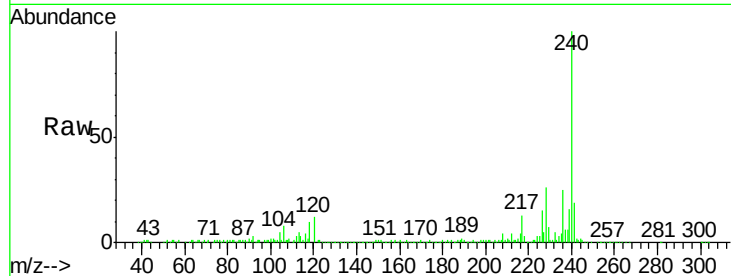
ClientSampled :

TP-2-MH-C

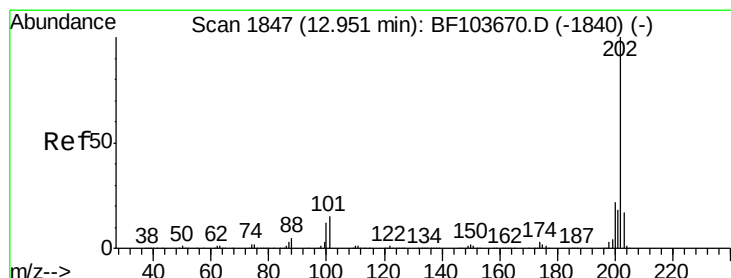
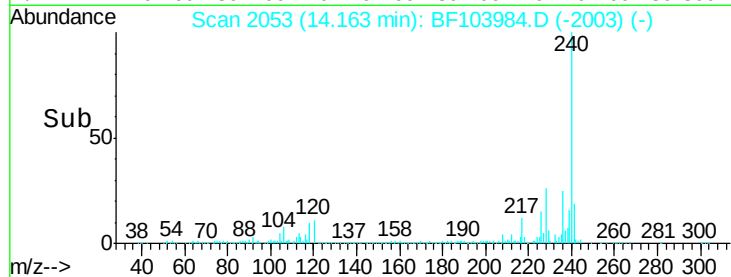
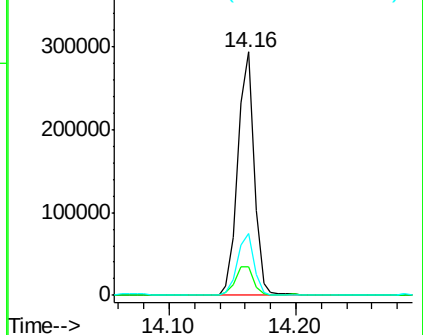
Tot Ion:	240	Resp:	258837
Ion Ratio	Lower	Upper	
240	100		
120	11.6	9.5	14.3
236	25.4	20.7	31.1

Manual Integrations
APPROVED

Sohil
3/28/2018 4:54:31 PM



Abundance Ion 240.00 (239.70 to 240.70): E
Ion 120.00 (119.70 to 120.70): E
Ion 236.00 (235.70 to 236.70): E



#77

Pyrene

Concen: 51.078 ng

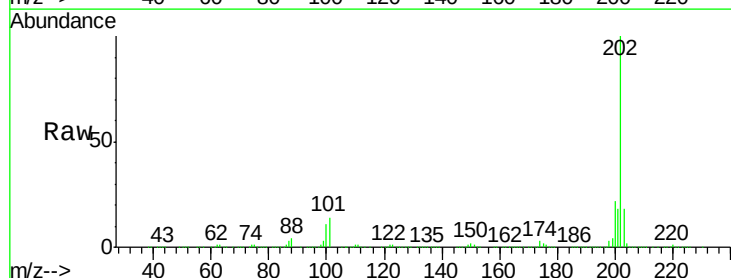
RT: 12.96 min Scan# 1849

Delta R.T. -0.00 min

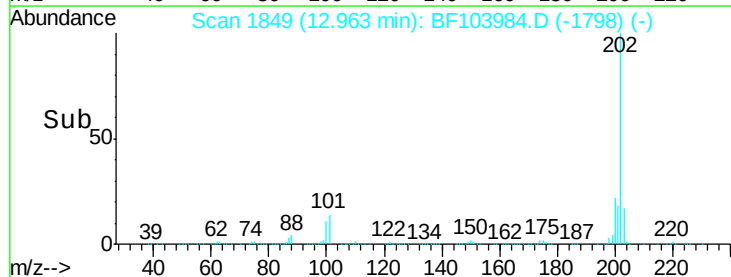
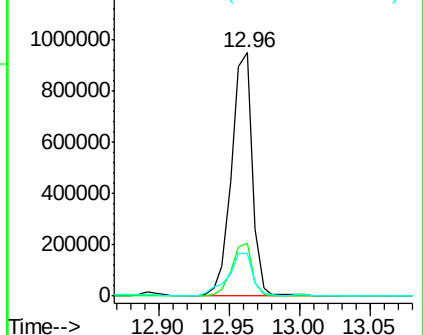
Lab File: BF103984.D

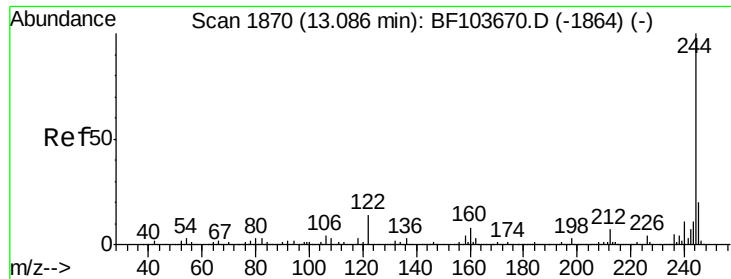
Acq: 27 Mar 2018 21:40

Tgt Ion:	202	Resp:	970937
Ion Ratio	Lower	Upper	
202	100		
200	21.7	17.4	26.2
203	17.7	14.3	21.5



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





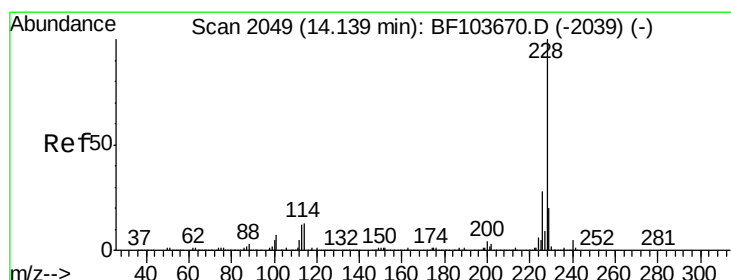
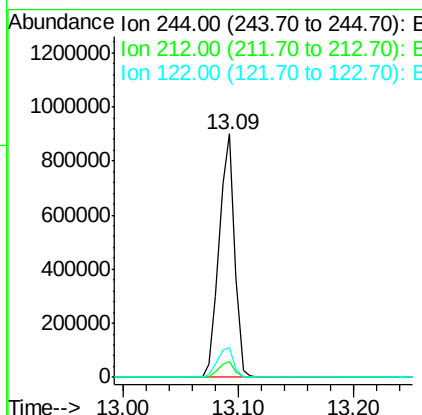
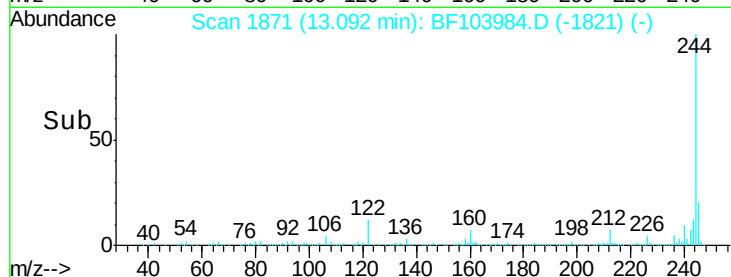
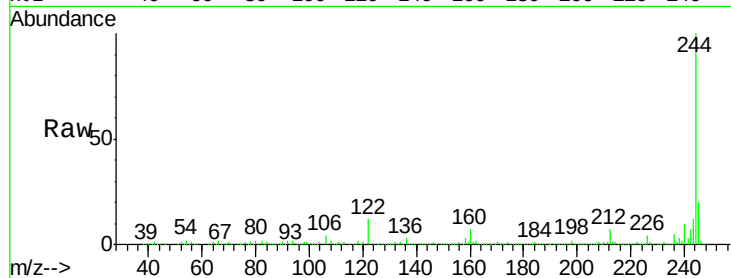
#78
 Terphenyl-d14
 Concen: 75.560 ng
 RT: 13.09 min Scan# 1871
 Delta R.T. -0.01 min
 Lab File: BF103984.D
 Acq: 27 Mar 2018 21:40

Instrument :
 BNA_F
 ClientSampleId :
 TP-2-MH-C

Tot Ion	Ratio	Lower	Upper
244	100		
212	6.5	5.4	8.0
122	12.4	11.0	16.4

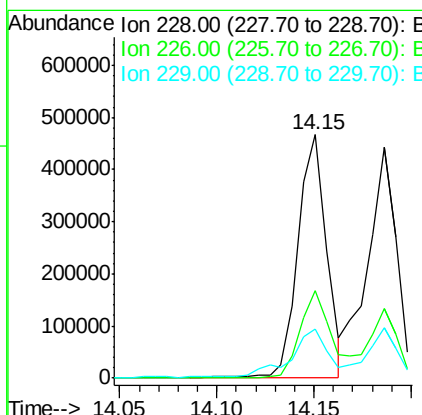
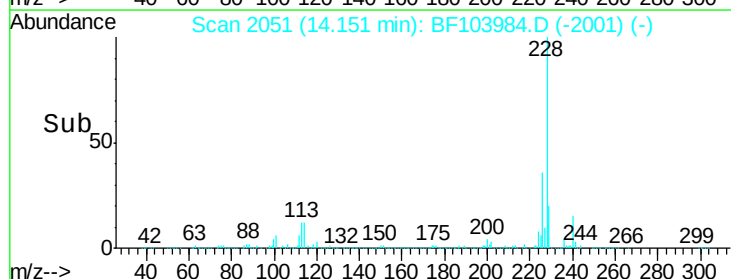
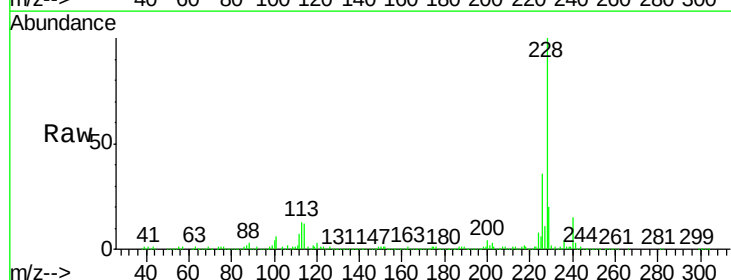
Manual Integrations
 APPROVED

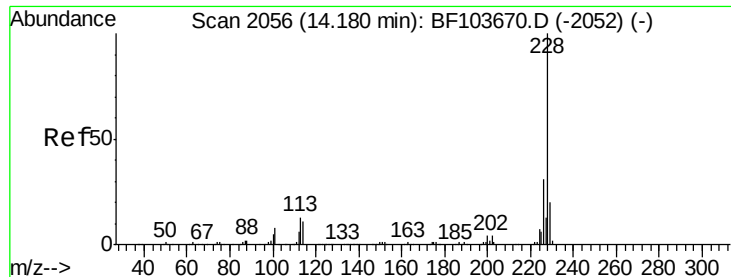
Sohil
 3/28/2018 4:54:31 PM



#80
 Benzo(a)anthracene
 Concen: 29.068 ng m
 RT: 14.15 min Scan# 2051
 Delta R.T. -0.01 min
 Lab File: BF103984.D
 Acq: 27 Mar 2018 21:40

Tgt Ion	Ratio	Lower	Upper
228	100		
226	36.0	22.6	33.8#
229	20.4	15.8	23.6





#82

Chrysene

Concen: 29.535 ng/mL

RT: 14.19 min Scan# 2057

Delta R.T. -0.01 min

Lab File: BF103984.D

Acq: 27 Mar 2018 21:40

Instrument :

BNA_F

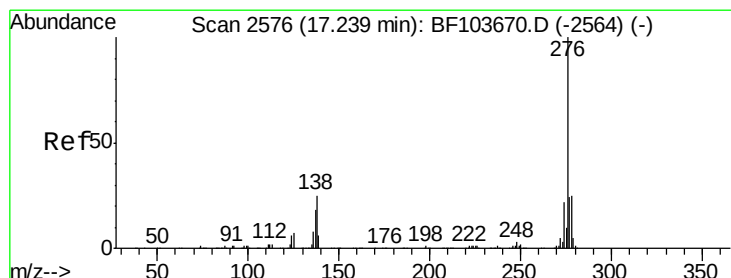
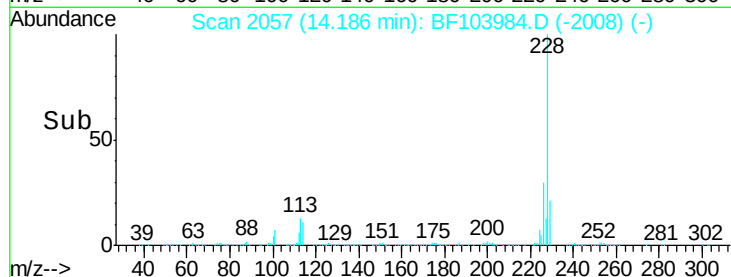
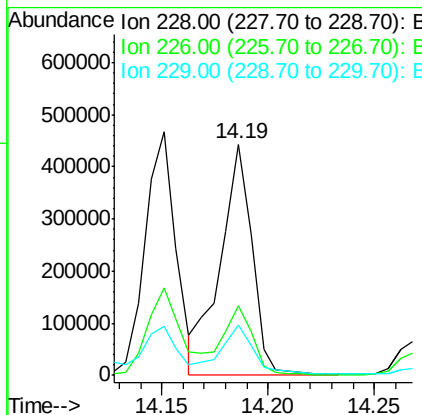
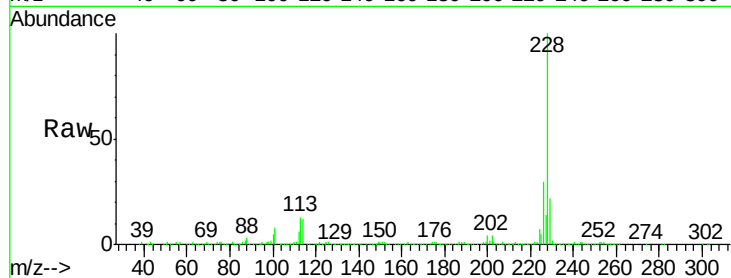
ClientSampleId :

TP-2-MH-C

Tot Ion:	228	Resp:	461295
Ion Ratio	Lower	Upper	
228	100		
226	30.3	25.0	37.6
229	21.6	16.2	24.4

Manual Integrations
APPROVED

Sohil
3/28/2018 4:54:31 PM



#85

Indeno(1,2,3-cd)pyrene

Concen: 19.889 ng/mL

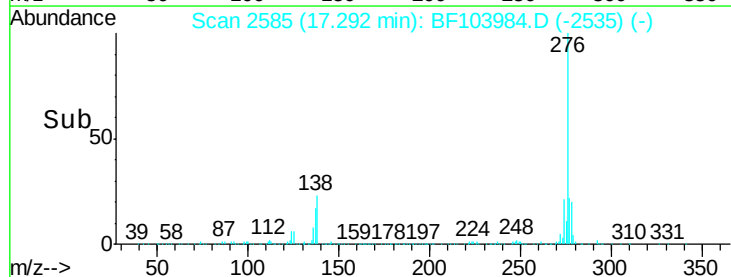
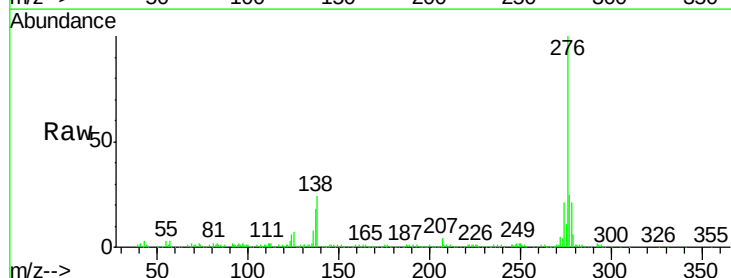
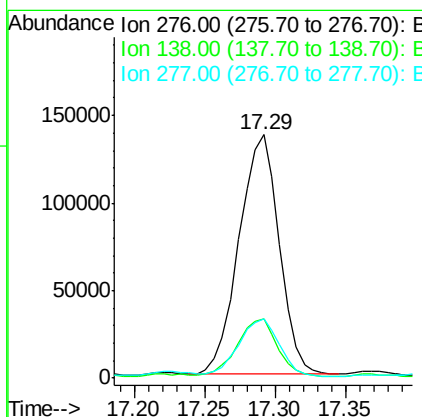
RT: 17.29 min Scan# 2585

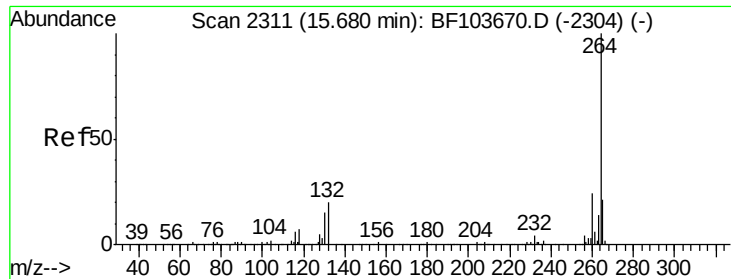
Delta R.T. -0.01 min

Lab File: BF103984.D

Acq: 27 Mar 2018 21:40

Tgt Ion:	276	Resp:	271273
Ion Ratio	Lower	Upper	
276	100		
138	24.4	25.0	37.6#
277	24.5	20.1	30.1





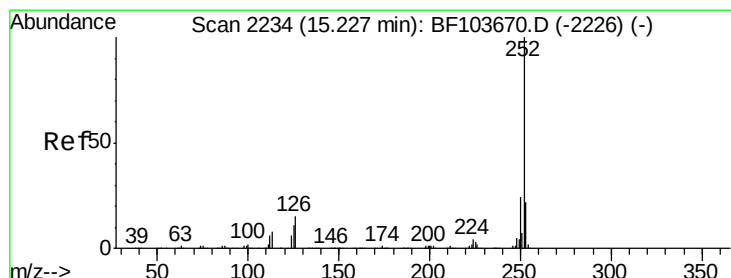
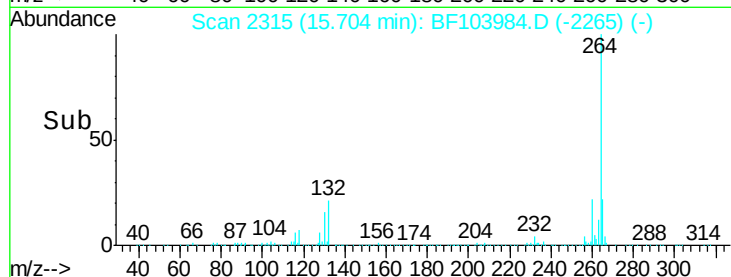
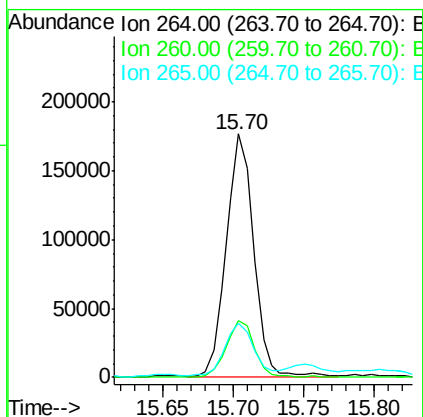
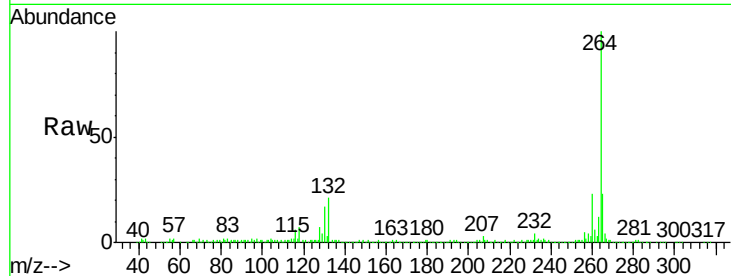
#86
Pervlene-d12
Concen: 20.000 ng
RT: 15.70 min Scan# 2315
Delta R.T. -0.01 min
Lab File: BF103984.D
Acq: 27 Mar 2018 21:40

Instrument :
BNA_F
ClientSampleId :
TP-2-MH-C

Tot Ion	Ratio	Lower	Upper
264	100		
260	23.1	19.2	28.8
265	22.5	17.5	26.3

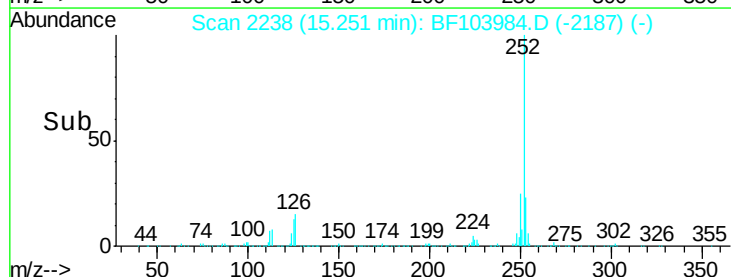
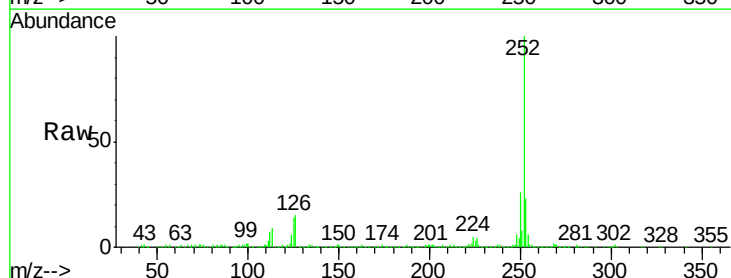
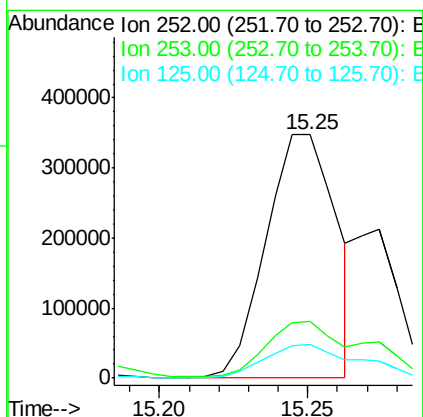
Manual Integrations
APPROVED

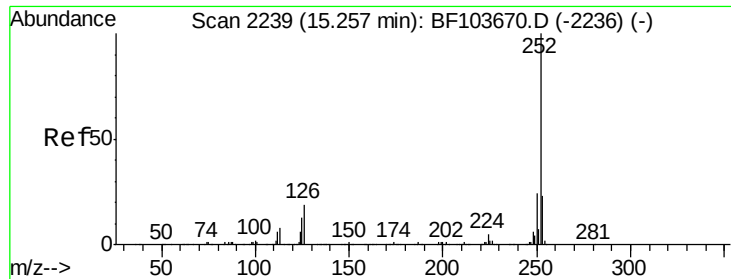
Sohil
3/28/2018 4:54:31 PM



#87
Benzo(b)fluoranthene
Concen: 38.026 ng m
RT: 15.25 min Scan# 2238
Delta R.T. -0.00 min
Lab File: BF103984.D
Acq: 27 Mar 2018 21:40

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.2	17.0	25.6
125	13.8	9.0	13.6#





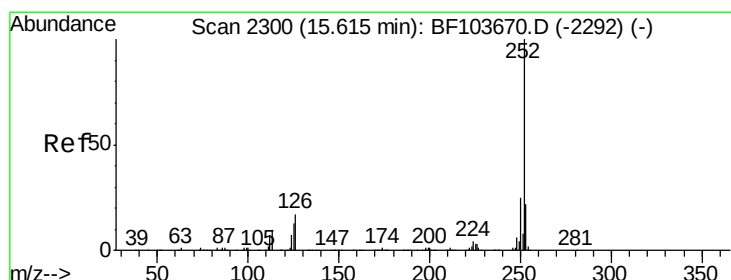
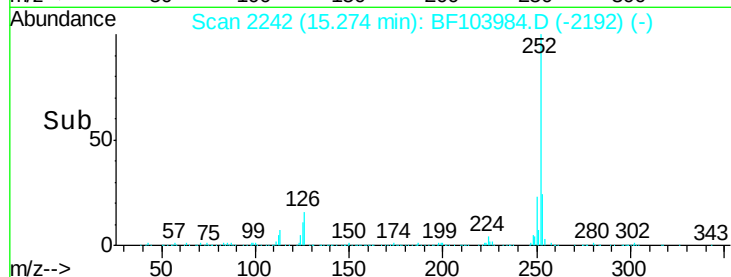
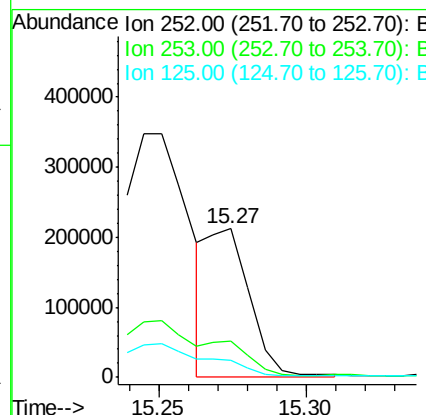
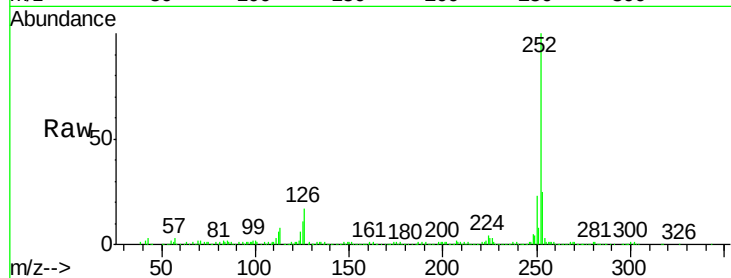
#88
Benzo(k)fluoranthene
Concen: 14.542 ng m
RT: 15.27 min Scan# 2242
Delta R.T. -0.01 min
Lab File: BF103984.D
Acq: 27 Mar 2018 21:40

Instrument :
BNA_F
ClientSampleId :
TP-2-MH-C

Tot Ion	Ratio	Lower	Upper
252	100		
253	24.6	17.9	26.9
125	11.4	10.2	15.2

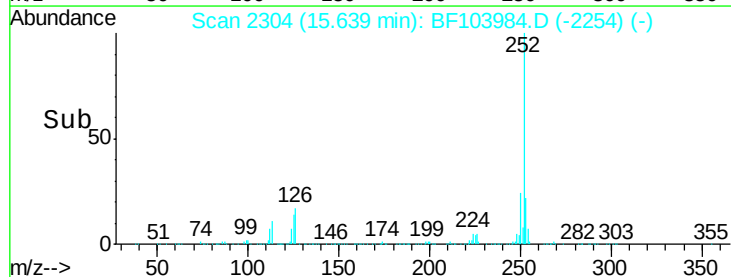
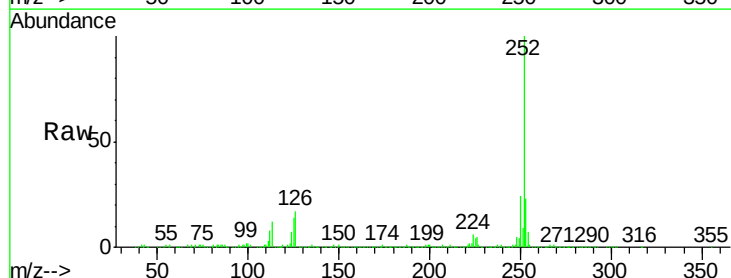
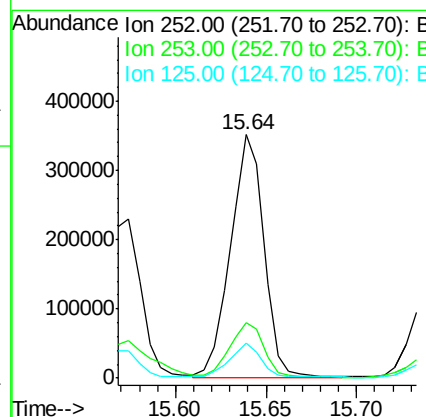
Manual Integrations
APPROVED

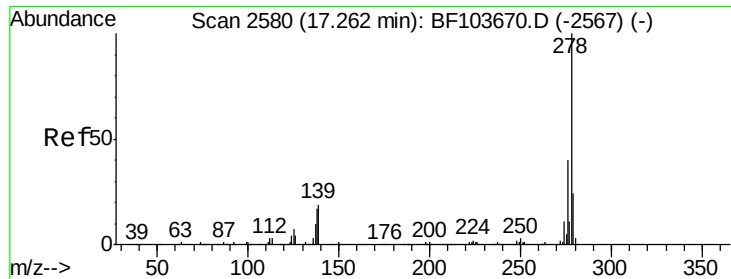
Sohil
3/28/2018 4:54:31 PM



#89
Benzo(a)pyrene
Concen: 32.720 ng
RT: 15.64 min Scan# 2304
Delta R.T. -0.01 min
Lab File: BF103984.D
Acq: 27 Mar 2018 21:40

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.0	17.1	25.7
125	14.3	9.8	14.6





#90

Dibenzo(a,h)anthracene

Concen: 5.118 ng/mL

RT: 17.29 min Scan# 2585

Delta R.T. -0.02 min

Lab File: BF103984.D

Acq: 27 Mar 2018 21:40

Instrument :

BNA_F

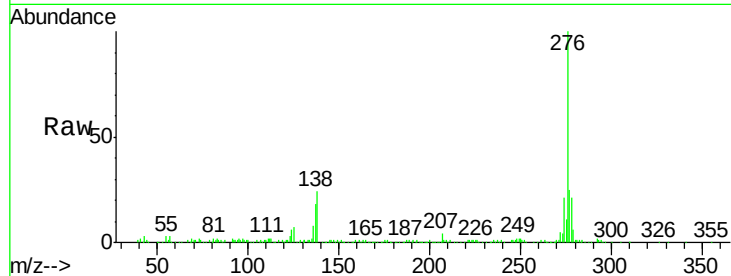
ClientSampleId :

TP-2-MH-C

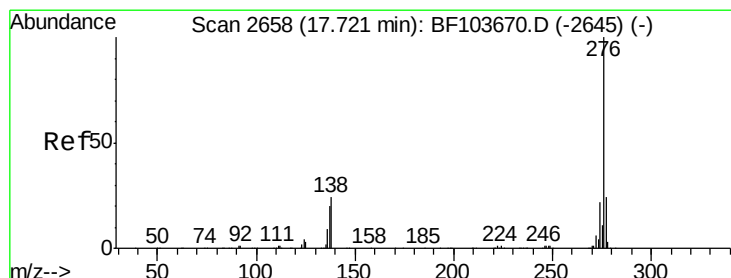
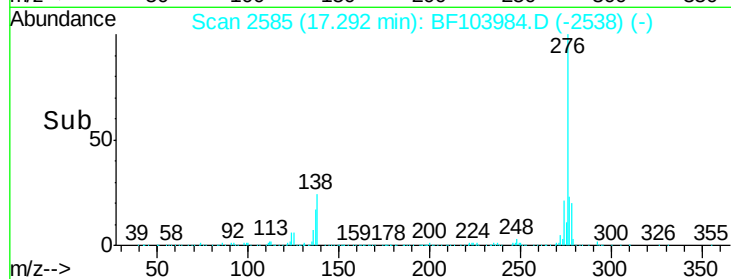
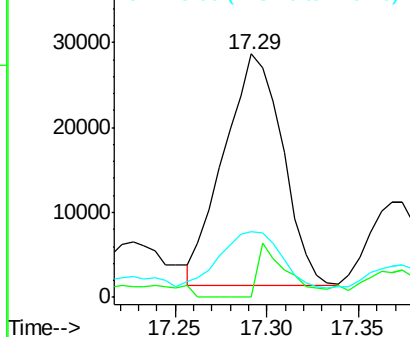
Tot Ion:278	Resp:	60511
Ion Ratio	Lower	Upper
278	100	
139	0.0	15.9 23.9#
279	27.1	19.0 28.4

Manual Integrations
APPROVED

Sohil
3/28/2018 4:54:31 PM



Abundance Ion 278.00 (277.70 to 278.70): E
Ion 139.00 (138.70 to 139.70): E
Ion 279.00 (278.70 to 279.70): E



#91

Benzo(g,h,i)perylene

Concen: 23.770 ng/mL

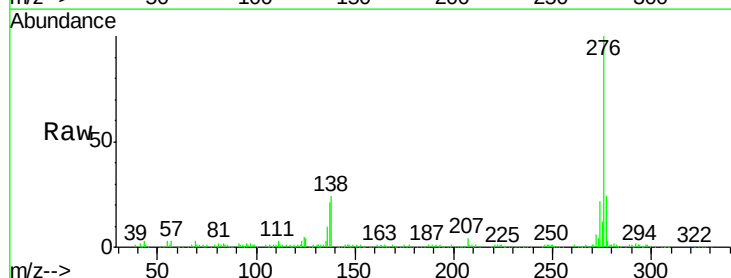
RT: 17.77 min Scan# 2667

Delta R.T. -0.01 min

Lab File: BF103984.D

Acq: 27 Mar 2018 21:40

Tgt Ion:276	Resp:	273421
Ion Ratio	Lower	Upper
276	100	
277	23.8	17.9 26.9
138	24.1	21.8 32.8



Abundance Ion 276.00 (275.70 to 276.70): E
Ion 277.00 (276.70 to 277.70): E
Ion 138.00 (137.70 to 138.70): E

