

Data Path : Z:\HPCHEM1\BNA F\DATA\BF081717\
 Data File : BF097803.D
 Acq On : 17 Aug 2017 23:16
 Operator : SJ/JU
 Sample : I4750-02
 Misc :
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 B-15(0-10)COMP

Manual Integrations
 APPROVED

Sohil
 8/18/2017 7:02:28 PM

Quant Time: Aug 18 12:15:59 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF081517.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Aug 15 13:25:08 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.77	152	141516	20.00	ng	-0.01
21) Naphthalene-d8	8.06	136	512603	20.00	ng	-0.01
38) Acenaphthene-d10	9.81	164	186941	20.00	ng	-0.01
63) Phenanthrene-d10	11.30	188	315350	20.00	ng	0.00
75) Chrysene-d12	13.93	240	287671	20.00	ng	0.00
86) Perylene-d12	15.36	264	201425	20.00	ng	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.39	112	813168	87.40	ng	0.00
7) Phenol-d6	6.40	99	1077446	85.23	ng	0.00
23) Nitrobenzene-d5	7.34	82	616388	65.32	ng	-0.01
41) 2,4,6-Tribromophenol	10.60	330	128953	79.50	ng	-0.01
44) 2-Fluorobiphenyl	9.13	172	704402	55.36	ng	-0.01
78) Terphenyl-d14	12.88	244	535074	38.79	ng	-0.01

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
10) Phenol	6.42	94	39729	2.687	ng	98
49) Dimethylphthalate	9.53	163	113984	8.341	ng	99
51) Acenaphthene	9.85	154	37233	2.985	ng	98
57) Fluorene	10.36	166	48423	3.746	ng	97
70) Phenanthrene	11.32	178	439395	26.148	ng	100
71) Anthracene	11.37	178	123961	7.273	ng	98
74) Fluoranthene	12.51	202	462610	26.375	ng	97
77) Pyrene	12.73	202	642624	27.313	ng	98
80) Benzo(a)anthracene	13.92	228	270689	15.700	ng	97
82) Chrysene	13.96	228	287183	16.744	ng	97
85) Indeno(1,2,3-cd)pyrene	16.76	276	59689m	4.731	ng	
87) Benzo(b)fluoranthene	14.95	252	178871m	14.088	ng	
88) Benzo(k)fluoranthene	14.97	252	53891m	4.518	ng	
89) Benzo(a)pyrene	15.30	252	153397	13.648	ng	98
90) Dibenzo(a,h)anthracene	16.77	278	19122	2.090	ng	# 81
91) Benzo(g,h,i)perylene	17.17	276	62124	6.507	ng	95

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

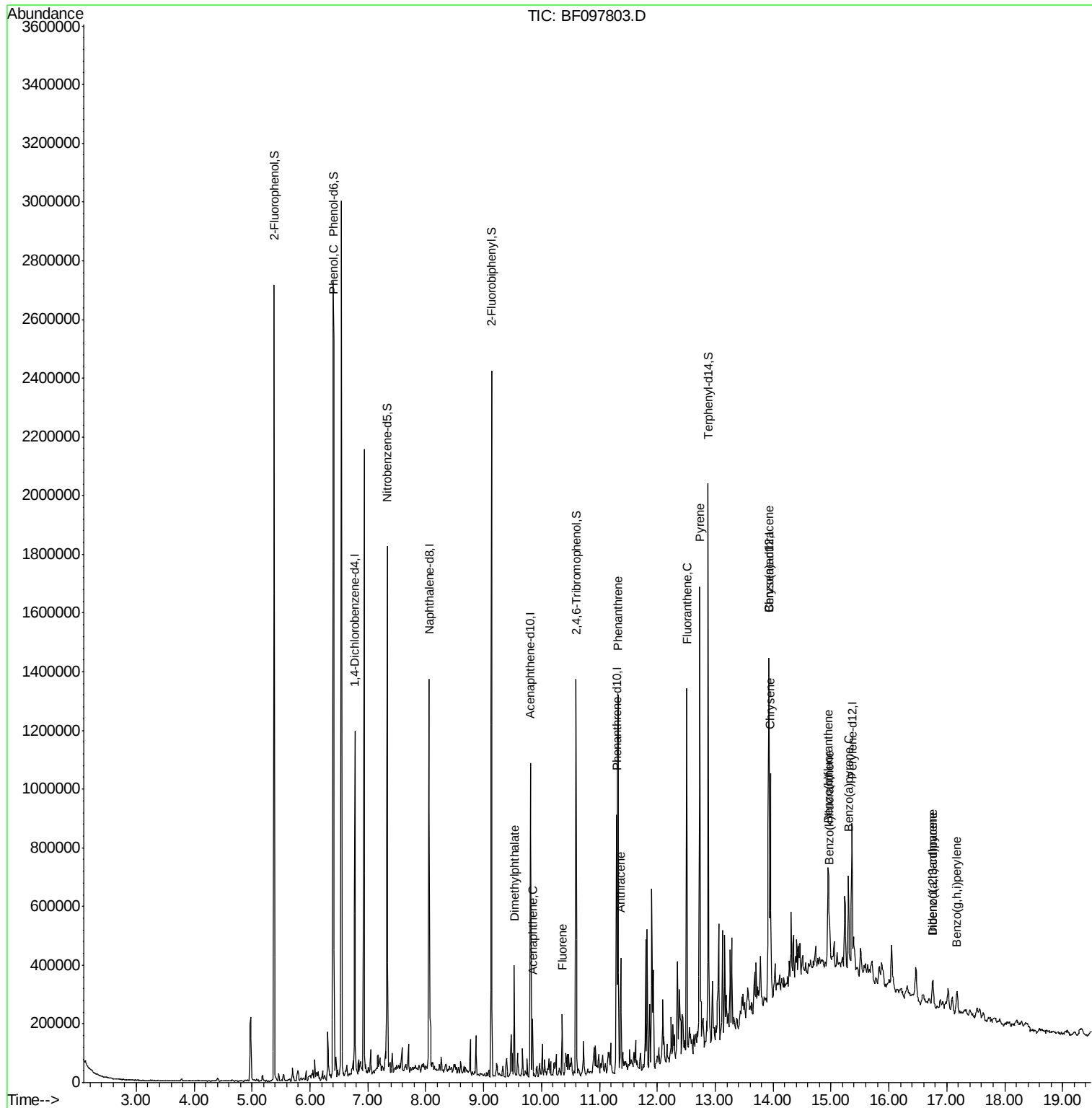
Data Path : Z:\HPCHEM1\BNA F\DATA\BF081717\
Data File : BF097803.D
Acq On : 17 Aug 2017 23:16
Operator : SJ/JU
Sample : I4750-02
Misc :
ALS Vial : 19 Sample Multiplier: 1

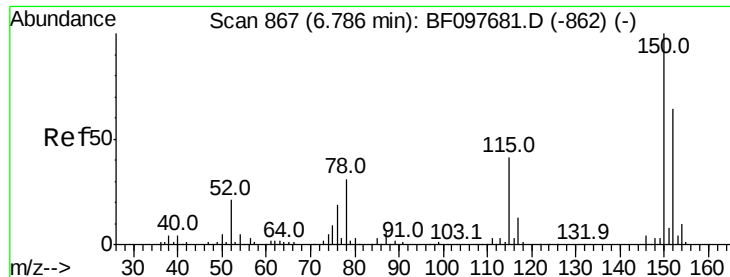
Instrument :
BNA_F
ClientSampleId :
B-15(0-10)COMP

Manual Integrations
APPROVED

Sohil
8/18/2017 7:02:28 PM

Quant Time: Aug 18 12:15:59 2017
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF081517.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Aug 15 13:25:08 2017
Response via : Initial Calibration





#1

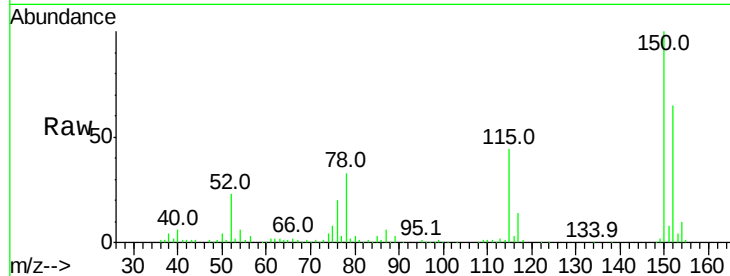
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.77 min Scan# 797
Delta R.T. -0.01 min
Lab File: BF097803.D
Acq: 17 Aug 2017 23:16

Instrument :
BNA_F
ClientSampleId :
B-15(0-10)COMP

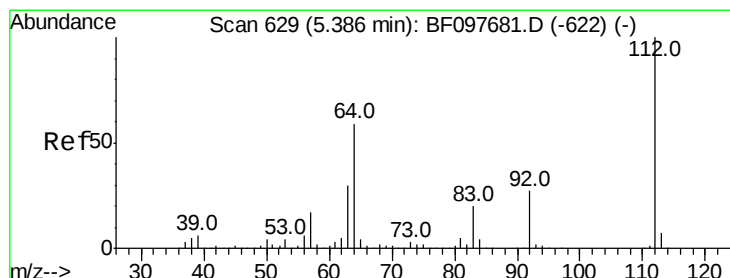
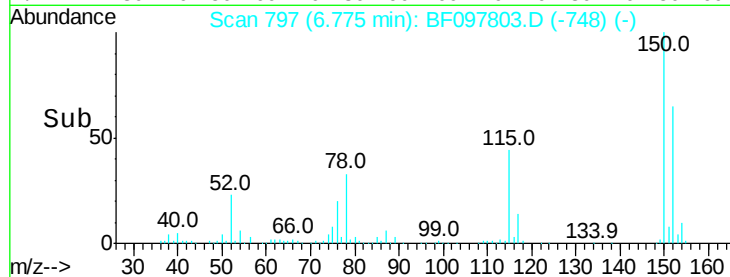
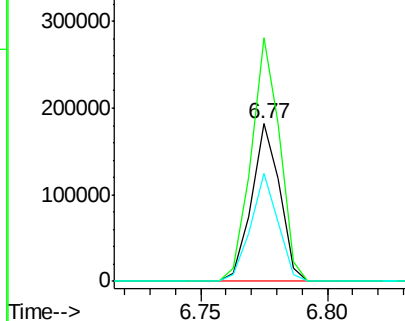
Tot Ion	Ratio	Lower	Upper
152	100		
150	154.3	126.2	189.2
115	68.1	52.2	78.2

Manual Integrations
APPROVED

Sohil
8/18/2017 7:02:28 PM



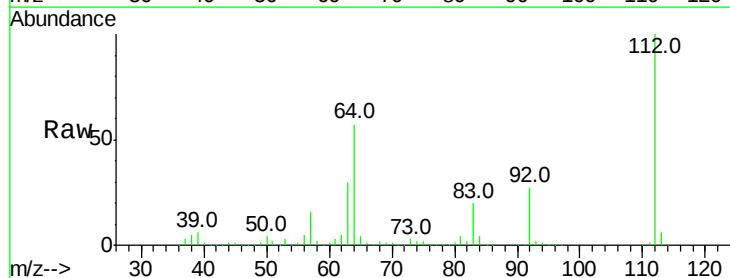
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



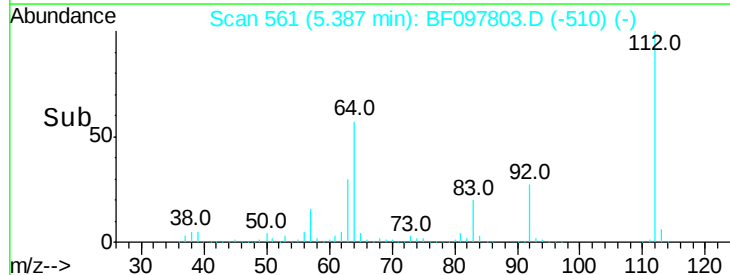
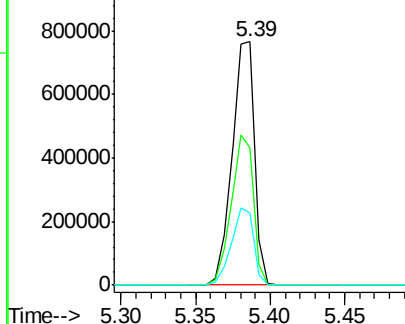
#5

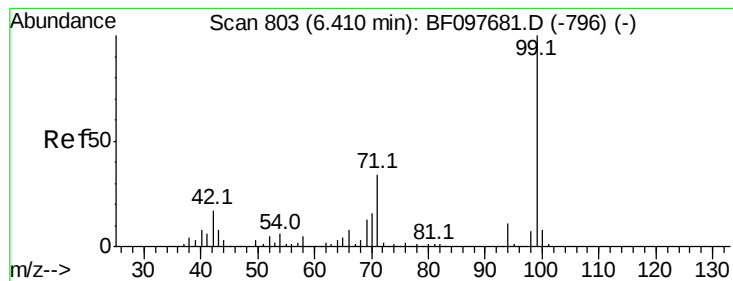
2-Fluorophenol
Concen: 87.403 ng
RT: 5.39 min Scan# 561
Delta R.T. 0.00 min
Lab File: BF097803.D
Acq: 17 Aug 2017 23:16

Tgt Ion	Ratio	Lower	Upper
112	100		
64	56.7	46.0	69.0
63	29.5	23.4	35.0



Abundance Ion 112.00 (111.70 to 112.70): E
Ion 64.00 (63.70 to 64.70): BF0
Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 85.234 ng

RT: 6.40 min Scan# 734

Delta R.T. -0.01 min

Lab File: BF097803.D

Acq: 17 Aug 2017 23:16

Instrument :

BNA_F

ClientSampleId :

B-15(0-10)COMP

Tot Ion: 99 Resp: 1077446

Ion Ratio Lower Upper

99 100

42 16.4 13.5 20.3

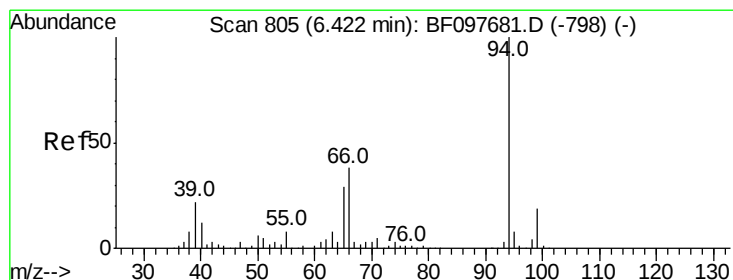
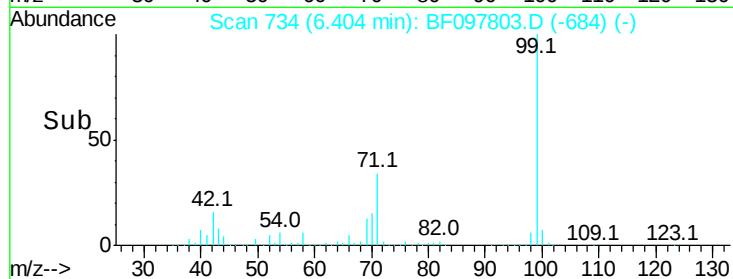
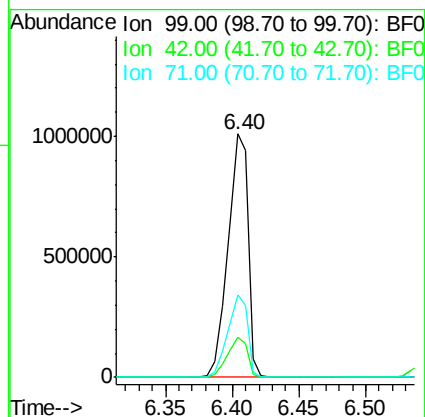
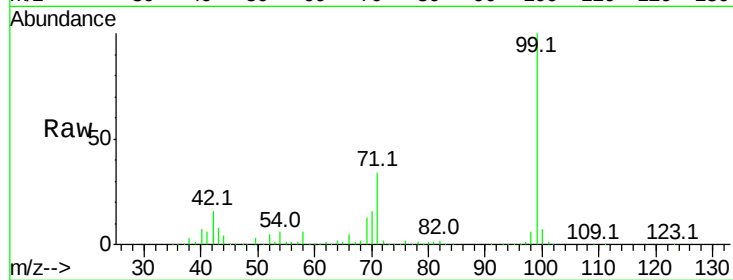
71 33.8 24.5 36.7

Manual Integrations

APPROVED

Sohil

8/18/2017 7:02:28 PM



#10

Phenol

Concen: 2.687 ng

RT: 6.42 min Scan# 736

Delta R.T. -0.01 min

Lab File: BF097803.D

Acq: 17 Aug 2017 23:16

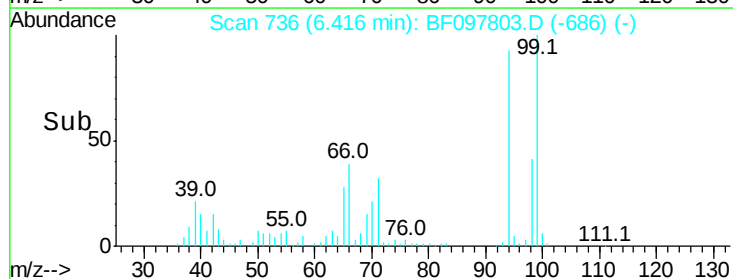
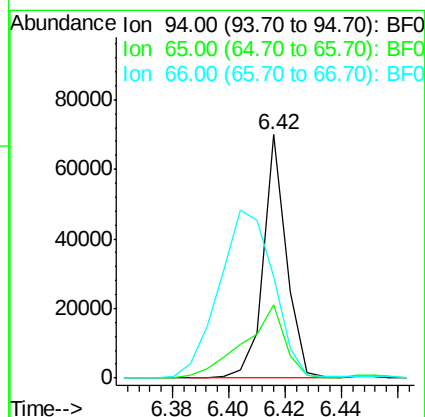
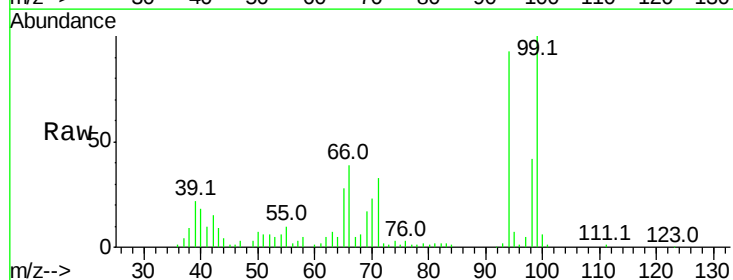
Tgt Ion: 94 Resp: 39729

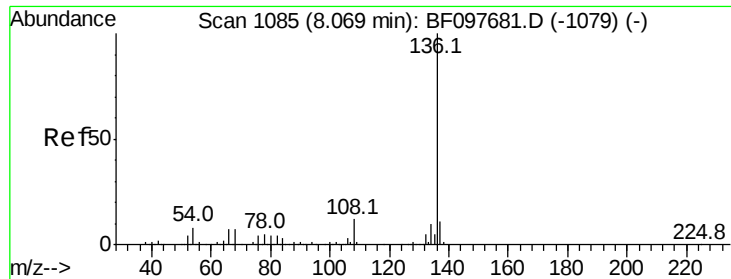
Ion Ratio Lower Upper

94 100

65 30.2 9.9 49.9

66 41.5 23.1 63.1





#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.06 min Scan# 1015

Delta R.T. -0.01 min

Lab File: BF097803.D

Acq: 17 Aug 2017 23:16

Instrument :

BNA_F

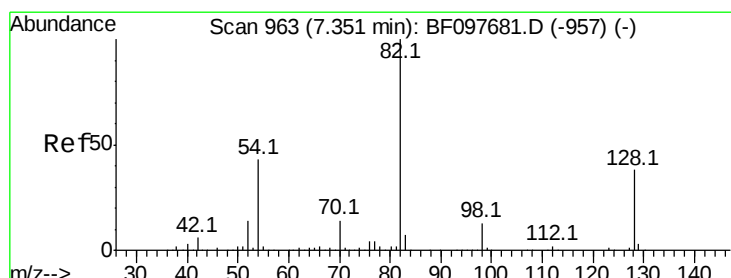
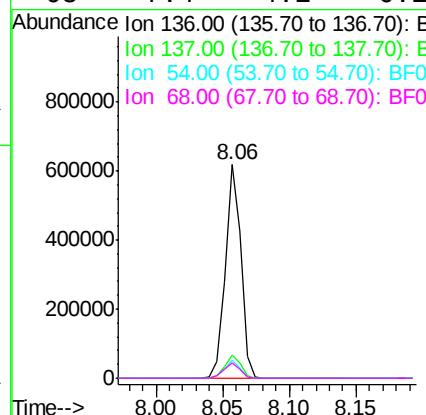
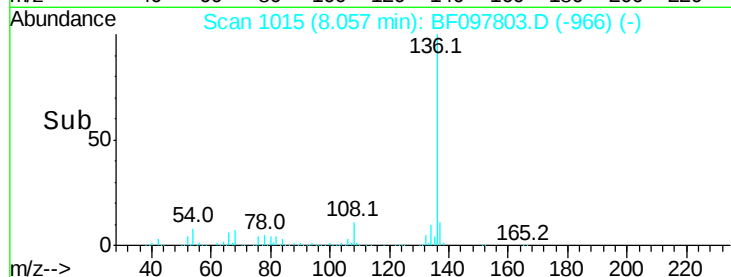
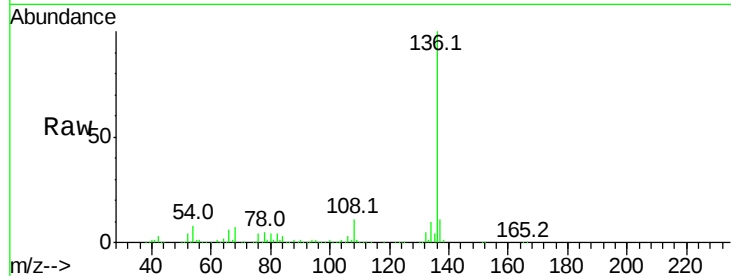
ClientSampleId :

B-15(0-10)COMP

Tot Ion	Ratio	Resp	Lower	Upper
136	100			
137	11.1	8.5	12.7	
54	8.2	4.9	7.3#	
68	7.4	4.1	6.1#	

Manual Integrations
APPROVED

Sohil
8/18/2017 7:02:28 PM



#23

Nitrobenzene-d5

Concen: 65.324 ng

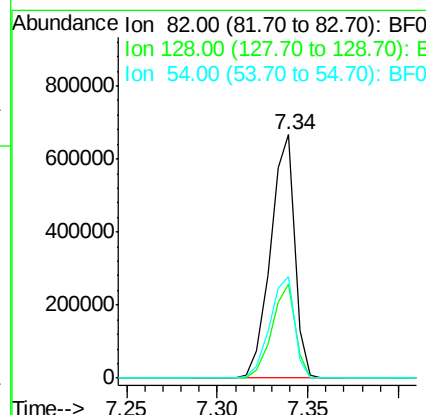
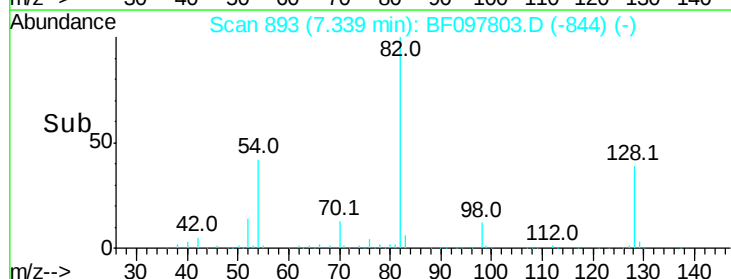
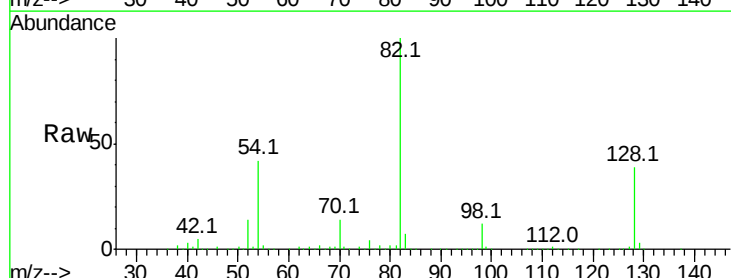
RT: 7.34 min Scan# 893

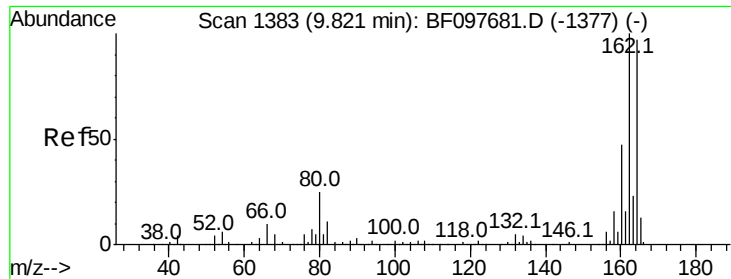
Delta R.T. -0.01 min

Lab File: BF097803.D

Acq: 17 Aug 2017 23:16

Tgt Ion	Ratio	Resp	Lower	Upper
82	100			
128	38.6	34.0	51.0	
54	41.7	42.2	63.2#	





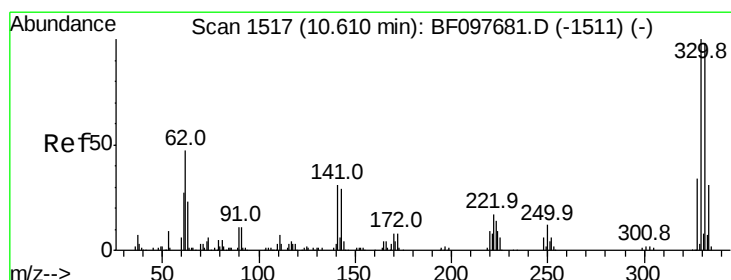
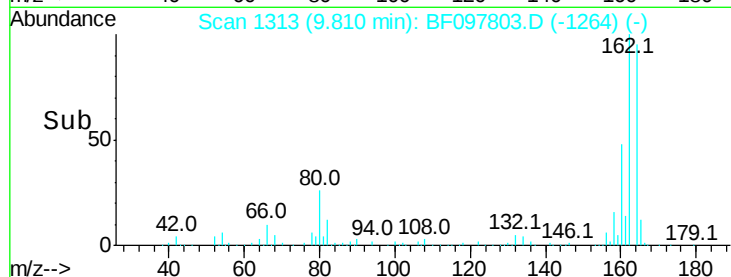
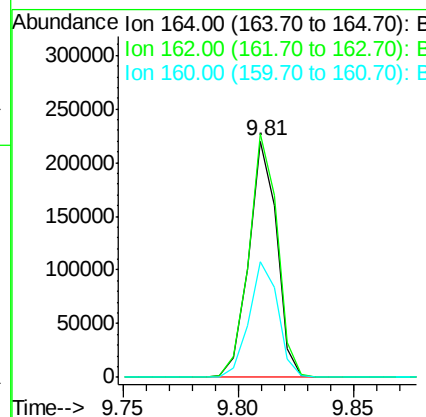
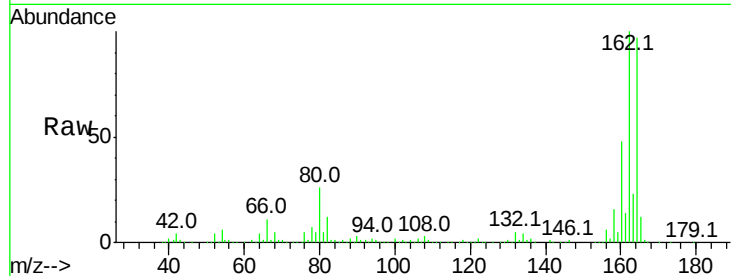
#38
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.81 min Scan# 1313
Delta R.T. -0.01 min
Lab File: BF097803.D
Acq: 17 Aug 2017 23:16

Instrument :
BNA_F
ClientSampleId :
B-15(0-10)COMP

Tot Ion	Ratio	Resp	Lower	Upper
164	100	186941		
162	103.0	82.6	123.8	
160	49.0	36.2	54.2	

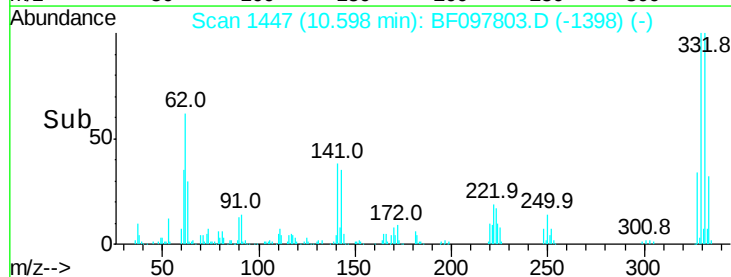
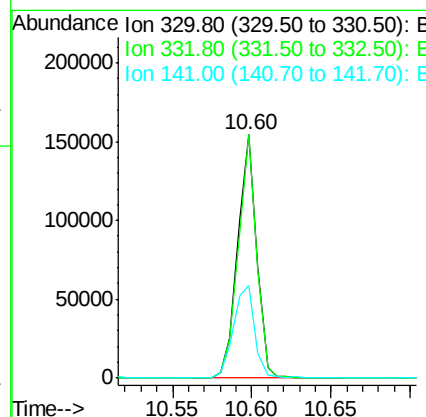
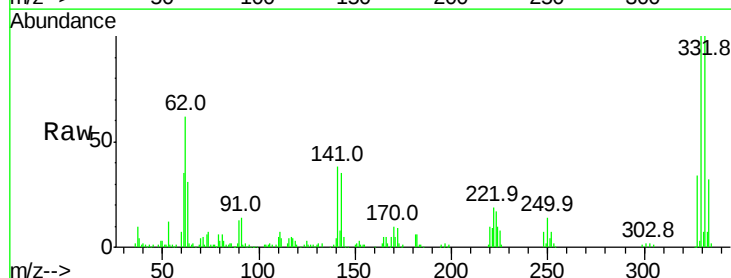
Manual Integrations
APPROVED

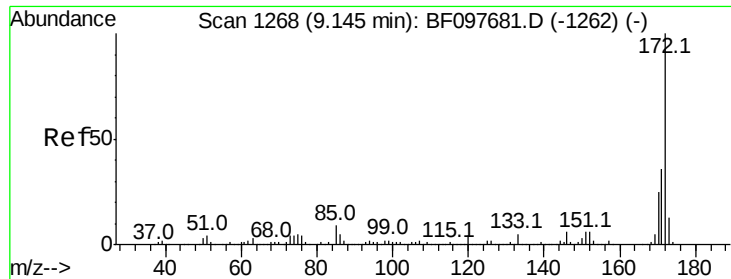
Sohil
8/18/2017 7:02:28 PM



#41
2,4,6-Tribromophenol
Concen: 79.502 ng
RT: 10.60 min Scan# 1447
Delta R.T. -0.01 min
Lab File: BF097803.D
Acq: 17 Aug 2017 23:16

Tgt Ion	Ratio	Resp	Lower	Upper
330	100	128953		
332	97.0	76.6	115.0	
141	43.2	31.4	47.2	





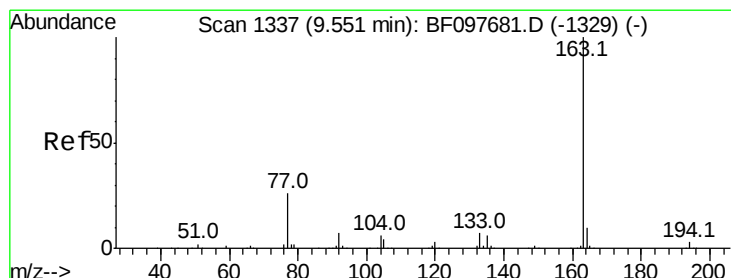
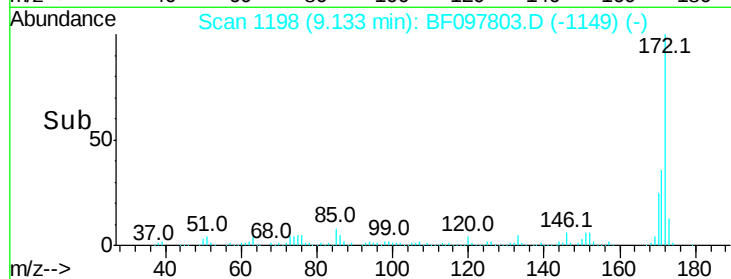
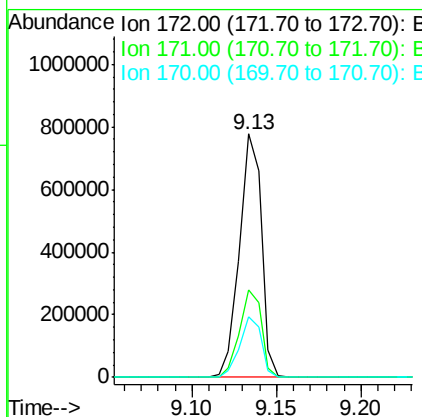
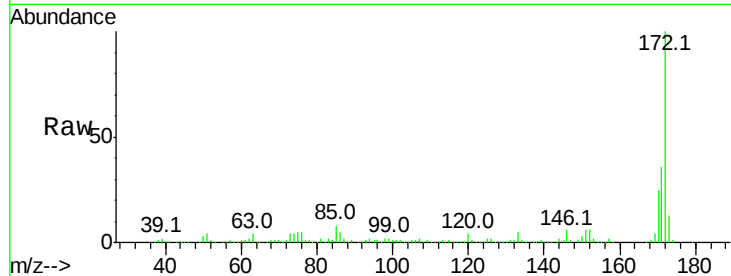
#44
2-Fluorobiphenyl
Concen: 55.360 ng
RT: 9.13 min Scan# 1198
Delta R.T. -0.01 min
Lab File: BF097803.D
Acq: 17 Aug 2017 23:16

Instrument :
BNA_F
ClientSampleId :
B-15(0-10)COMP

Tot Ion	Ratio	Resp	Lower	Upper
172	100	704402		
171	35.7		29.6	44.4
170	24.6		19.8	29.8

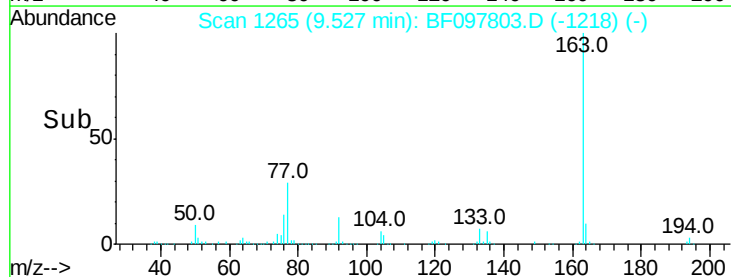
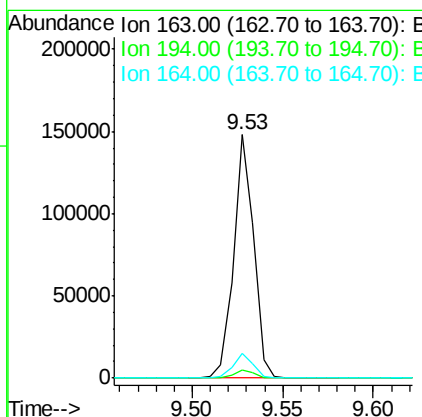
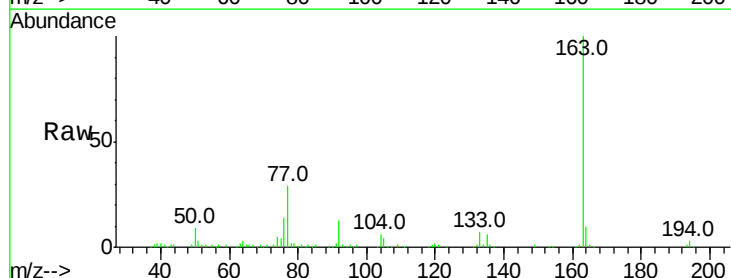
Manual Integrations
APPROVED

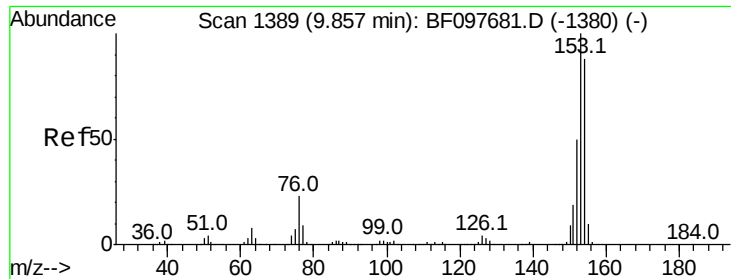
Sohil
8/18/2017 7:02:28 PM



#49
Dimethylphthalate
Concen: 8.341 ng
RT: 9.53 min Scan# 1265
Delta R.T. -0.02 min
Lab File: BF097803.D
Acq: 17 Aug 2017 23:16

Tgt Ion	Ratio	Resp	Lower	Upper
163	100	113984		
194	3.4		2.6	4.0
164	10.2		8.4	12.6





#51

Acenaphthene

Concen: 2.985 ng

RT: 9.85 min Scan# 1319

Delta R.T. -0.01 min

Lab File: BF097803.D

Acq: 17 Aug 2017 23:16

Instrument :

BNA_F

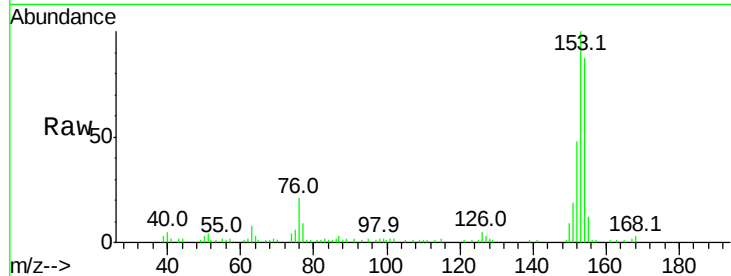
ClientSampleId :

B-15(0-10)COMP

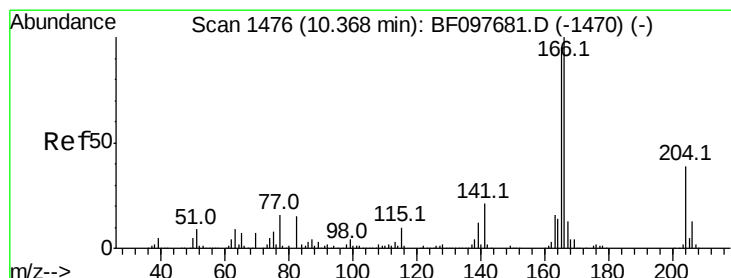
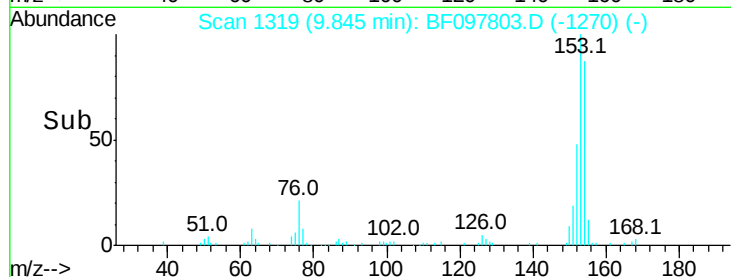
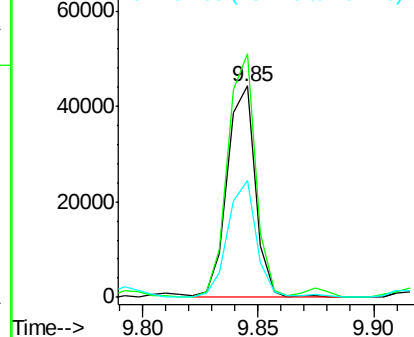
Tot Ion:	154	Resp:	37233
Ion Ratio	Lower	Upper	
154	100		
153	115.1	90.5	135.7
152	55.3	43.6	65.4

Manual Integrations
APPROVED

Sohil
8/18/2017 7:02:28 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



#57

Fluorene

Concen: 3.746 ng

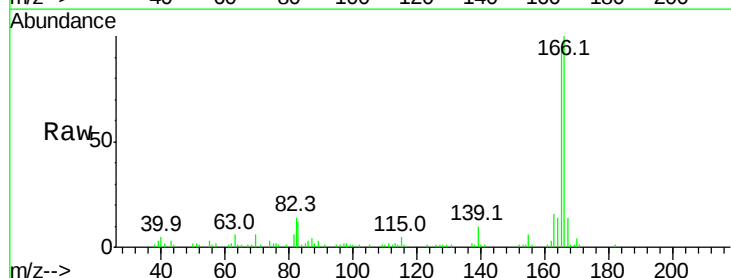
RT: 10.36 min Scan# 1406

Delta R.T. -0.01 min

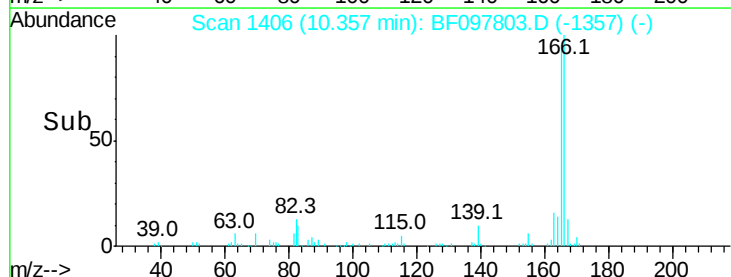
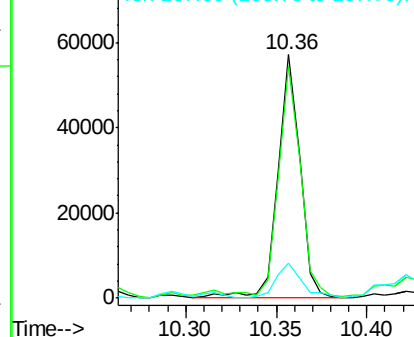
Lab File: BF097803.D

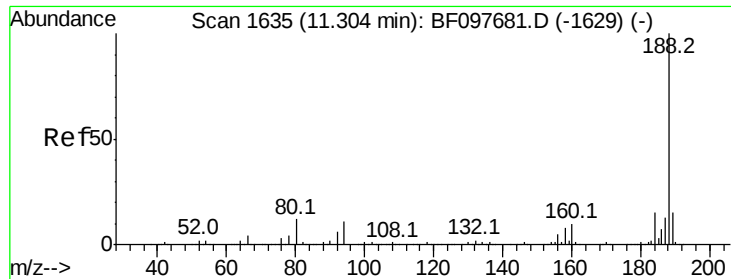
Acq: 17 Aug 2017 23:16

Tgt Ion:	166	Resp:	48423
Ion Ratio	Lower	Upper	
166	100		
165	95.2	78.8	118.2
167	14.2	10.6	16.0



Abundance Ion 166.00 (165.70 to 166.70): E
Ion 165.00 (164.70 to 165.70): E
Ion 167.00 (166.70 to 167.70): E





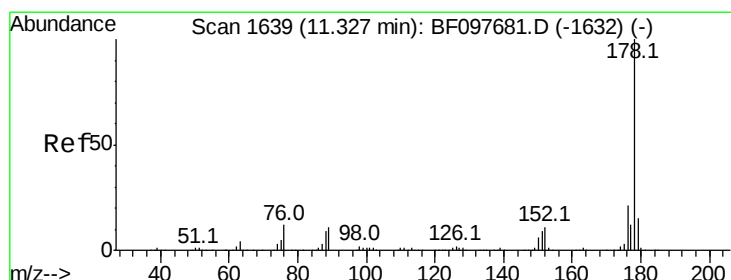
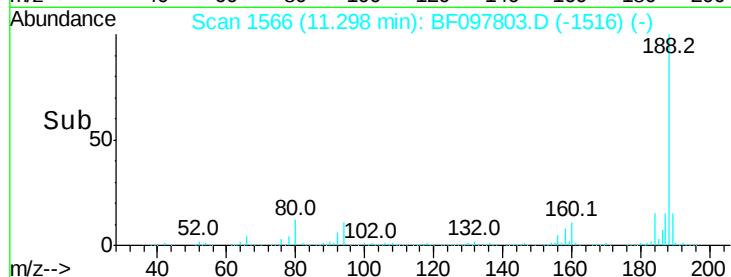
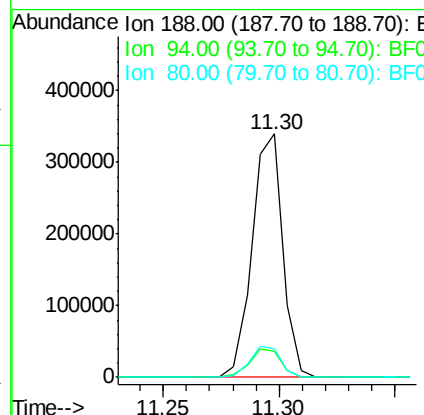
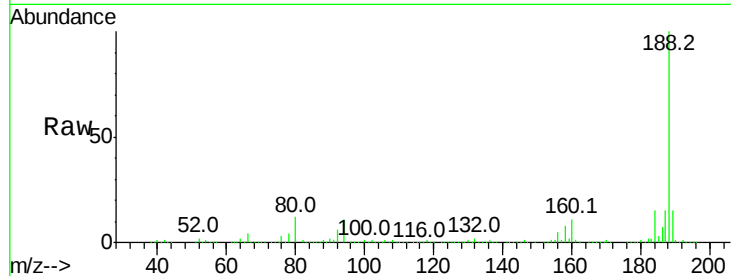
#63
 Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.30 min Scan# 1566
 Delta R.T. -0.01 min
 Lab File: BF097803.D
 Acq: 17 Aug 2017 23:16

Instrument :
 BNA_F
 ClientSampleId :
 B-15(0-10)COMP

Tot Ion	Ratio	Resp Lower	Resp Upper
188	100		
94	10.8	9.4	14.2
80	11.6	10.2	15.2

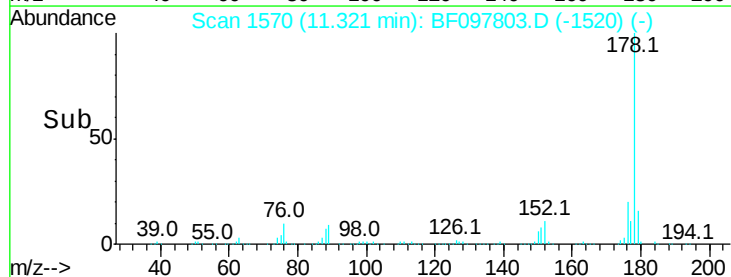
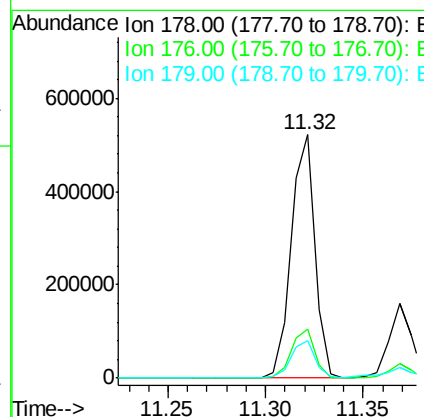
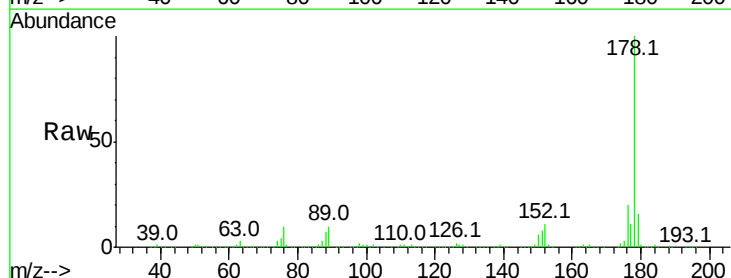
Manual Integrations
 APPROVED

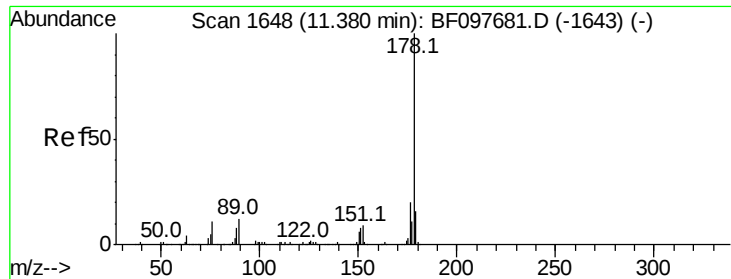
Sohil
 8/18/2017 7:02:28 PM



#70
 Phenanthrene
 Concen: 26.148 ng
 RT: 11.32 min Scan# 1570
 Delta R.T. -0.01 min
 Lab File: BF097803.D
 Acq: 17 Aug 2017 23:16

Tgt Ion	Ratio	Resp Lower	Resp Upper
178	100		
176	20.2	16.2	24.4
179	15.6	12.6	19.0





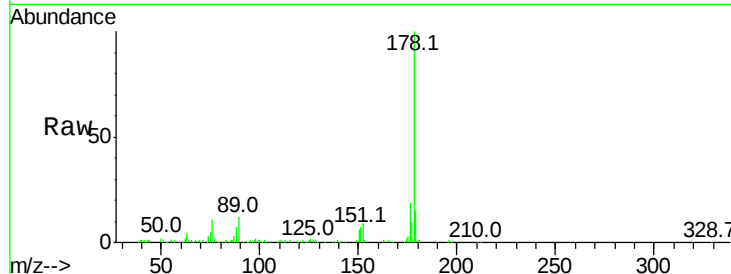
#71
 Anthracene
 Concen: 7.273 ng
 RT: 11.37 min Scan# 1578
 Delta R.T. -0.01 min
 Lab File: BF097803.D
 Acq: 17 Aug 2017 23:16

Instrument :
 BNA_F
 ClientSampleId :
 B-15(0-10)COMP

Tot Ion	Ratio	Lower	Upper
178	100		
176	18.9	15.8	23.8
179	15.1	12.7	19.1

Manual Integrations
 APPROVED

Sohil
 8/18/2017 7:02:28 PM

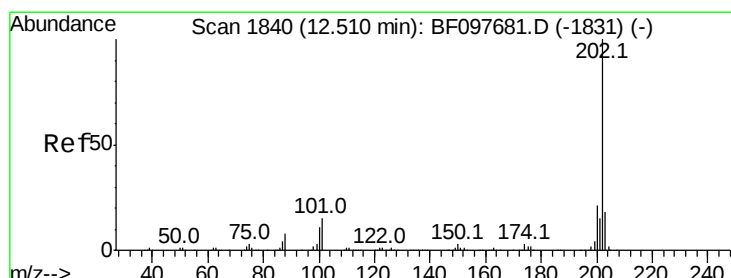
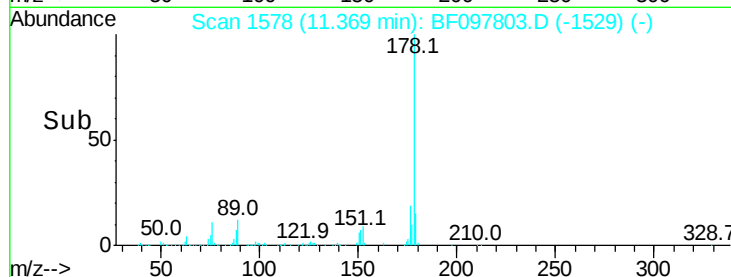
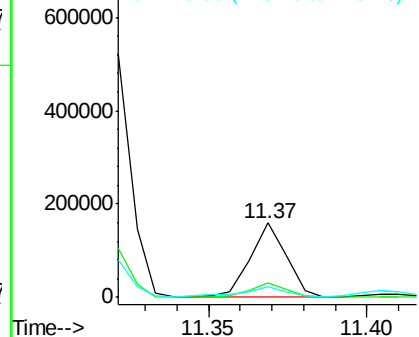


Abundance

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



#74
 Fluoranthene
 Concen: 26.375 ng
 RT: 12.51 min Scan# 1772
 Delta R.T. 0.00 min
 Lab File: BF097803.D
 Acq: 17 Aug 2017 23:16

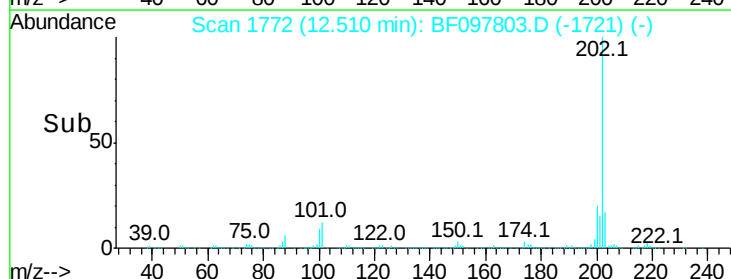
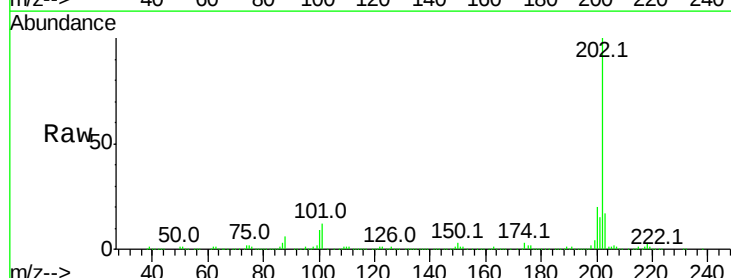
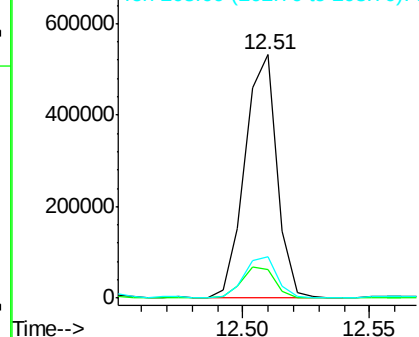
Tgt Ion	Ratio	Lower	Upper
202	100		
101	11.8	0.0	33.2
203	17.1	0.0	38.1

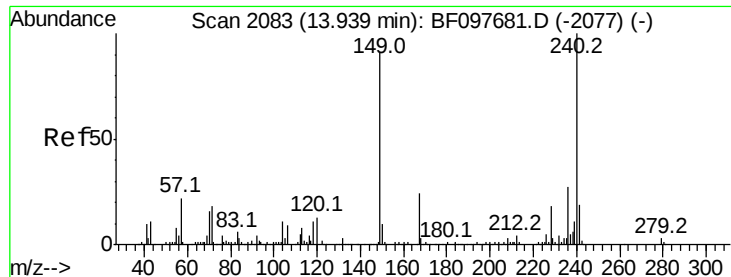
Abundance

Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E





#75

Chrysene-d12

Concen: 20.000 ng

RT: 13.93 min Scan# 2014

Delta R.T. -0.01 min

Lab File: BF097803.D

Acq: 17 Aug 2017 23:16

Instrument :

BNA_F

ClientSampleId :

B-15(0-10)COMP

Tot Ion:240 Resp: 287671

Ion Ratio Lower Upper

240 100

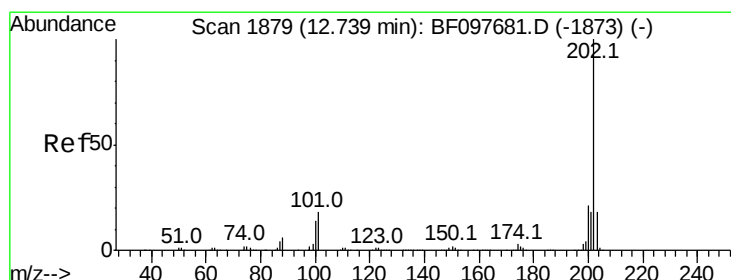
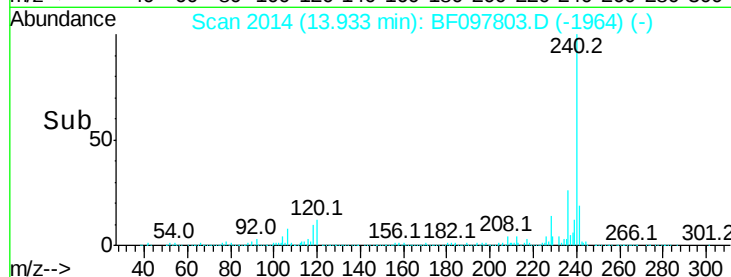
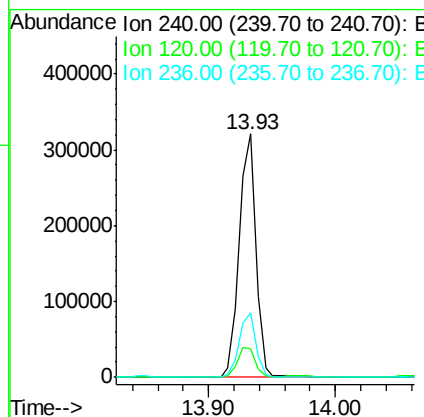
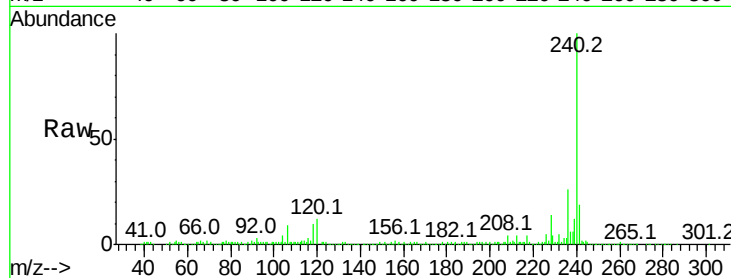
120 11.8 5.8 8.8#

236 26.3 20.5 30.7

Manual Integrations
APPROVED

Sohil

8/18/2017 7:02:28 PM



#77

Pyrene

Concen: 27.313 ng

RT: 12.73 min Scan# 1810

Delta R.T. -0.01 min

Lab File: BF097803.D

Acq: 17 Aug 2017 23:16

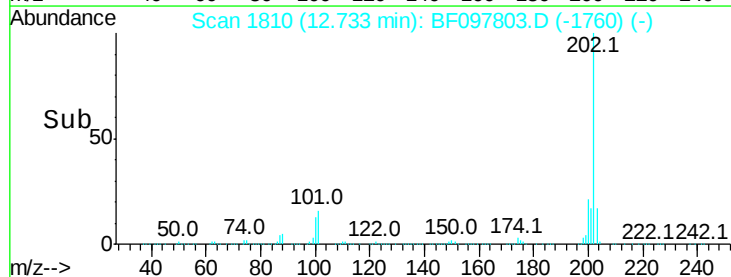
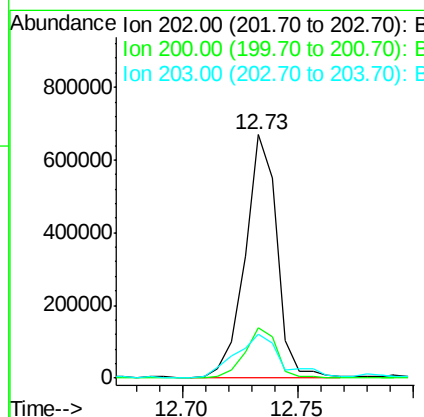
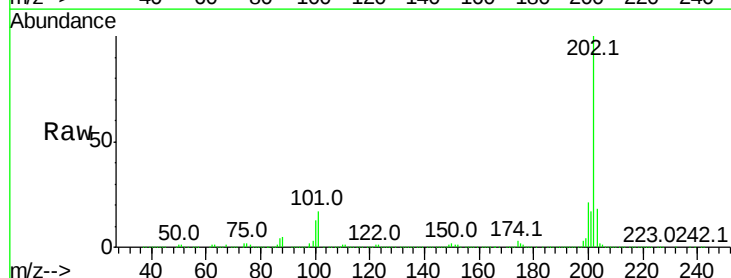
Tgt Ion:202 Resp: 642624

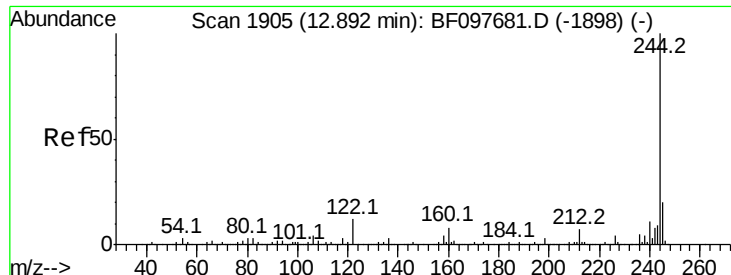
Ion Ratio Lower Upper

202 100

200 20.7 17.6 26.4

203 18.1 14.4 21.6





#78

Terphenyl-d14

Concen: 38.788 ng

RT: 12.88 min Scan# 1835

Delta R.T. -0.01 min

Lab File: BF097803.D

Acq: 17 Aug 2017 23:16

Instrument :

BNA_F

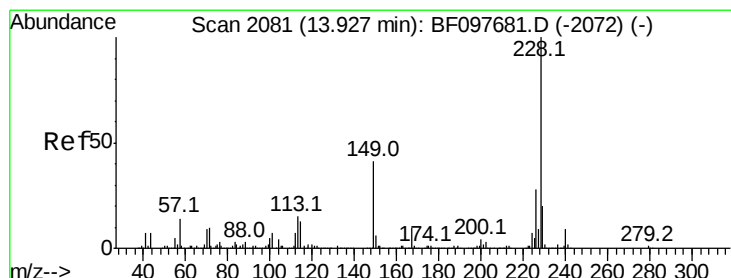
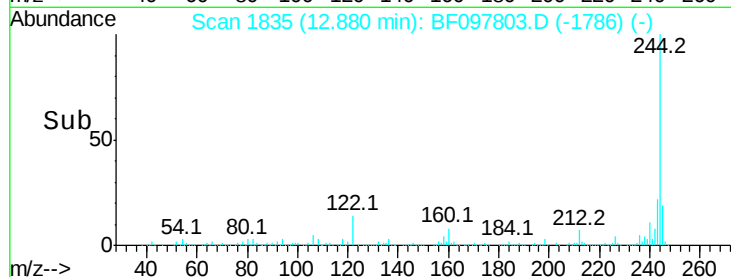
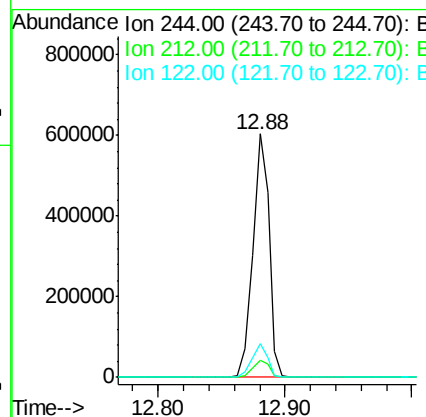
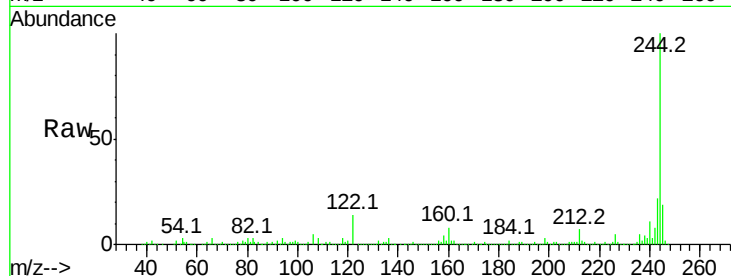
ClientSampleId :

B-15(0-10)COMP

Tot Ion:	244	Resp:	535074
Ion Ratio	Lower	Upper	
244	100		
212	7.2	6.0	9.0
122	14.0	10.3	15.5

Manual Integrations
APPROVED

Sohil
8/18/2017 7:02:28 PM



#80

Benzo(a)anthracene

Concen: 15.700 ng

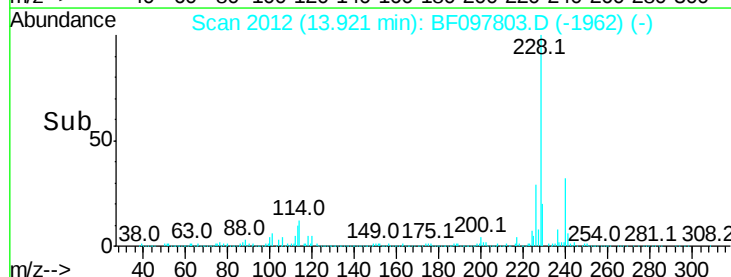
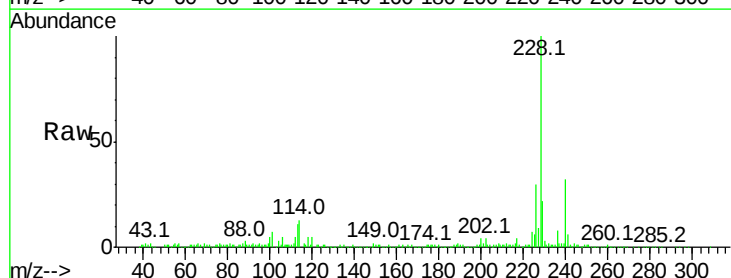
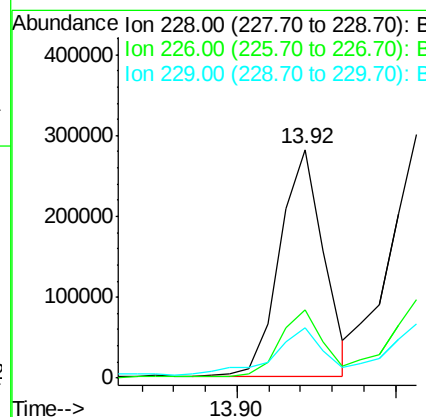
RT: 13.92 min Scan# 2012

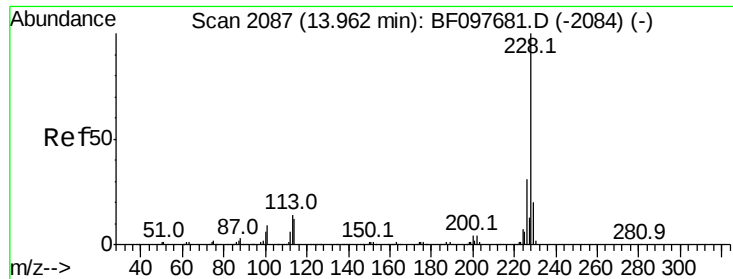
Delta R.T. -0.01 min

Lab File: BF097803.D

Acq: 17 Aug 2017 23:16

Tgt Ion:	228	Resp:	270689
Ion Ratio	Lower	Upper	
228	100		
226	29.8	22.6	33.8
229	21.9	16.3	24.5





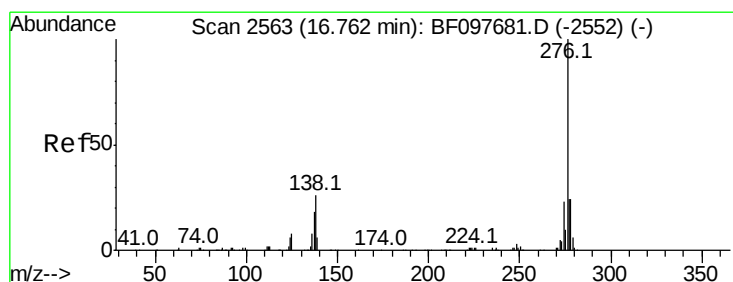
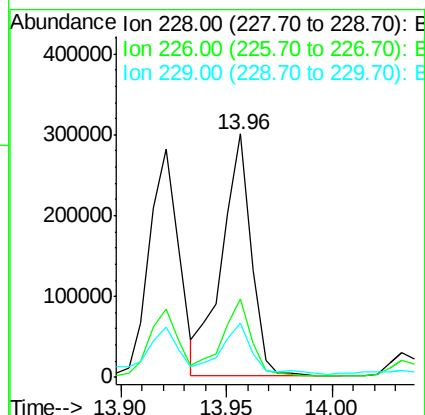
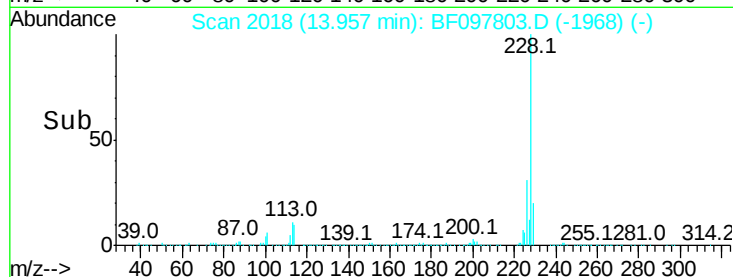
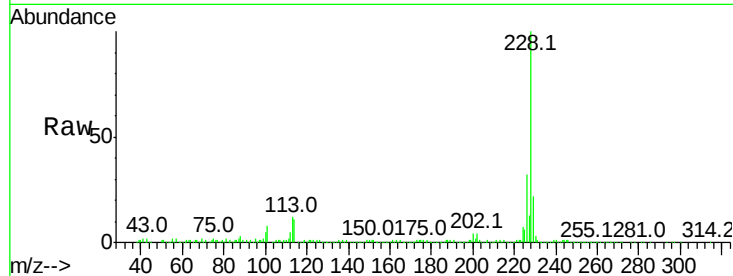
#82
Chrysene
Concen: 16.744 ng
RT: 13.96 min Scan# 2018
Delta R.T. -0.01 min
Lab File: BF097803.D
Acq: 17 Aug 2017 23:16

Instrument :
BNA_F
ClientSampleId :
B-15(0-10)COMP

Tot Ion	Ratio	Lower	Upper
228	100		
226	32.2	24.9	37.3
229	22.2	15.8	23.6

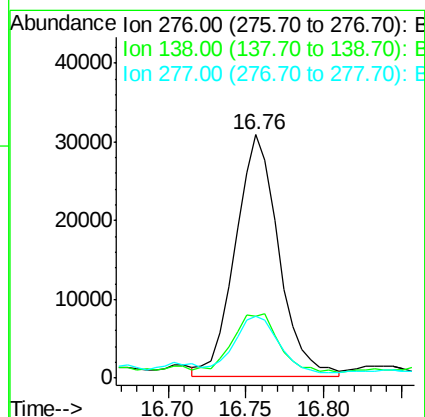
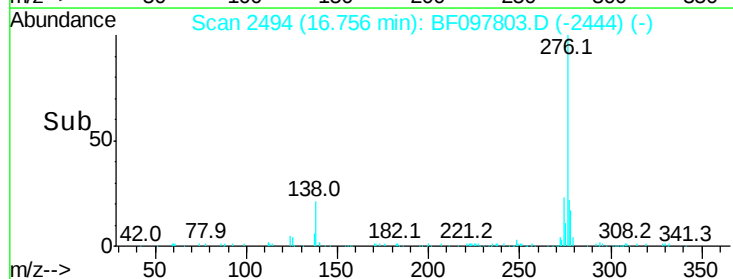
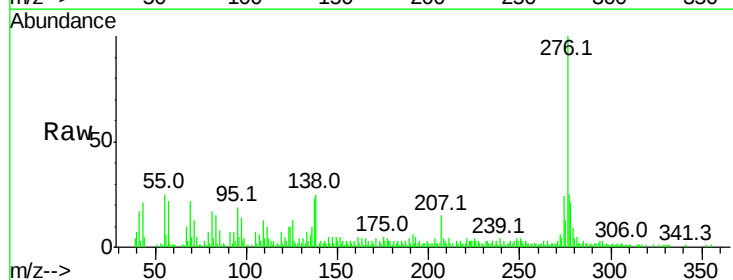
Manual Integrations
APPROVED

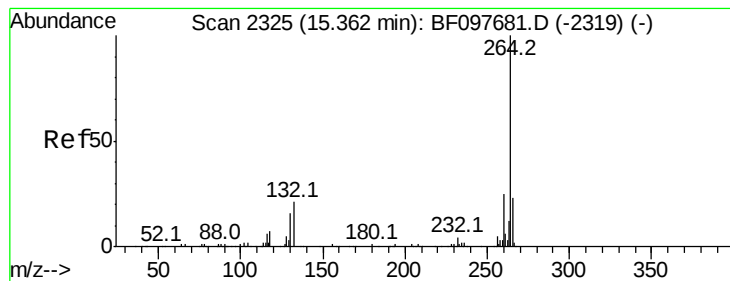
Sohil
8/18/2017 7:02:28 PM



#85
Indeno(1,2,3-cd)pyrene
Concen: 4.731 ng m
RT: 16.76 min Scan# 2494
Delta R.T. -0.01 min
Lab File: BF097803.D
Acq: 17 Aug 2017 23:16

Tgt Ion	Ratio	Lower	Upper
276	100		
138	7.2	27.8	41.6#
277	5.5	20.2	30.4#





#86

Pervlene-d12

Concen: 20.000 ng

RT: 15.36 min Scan# 2257

Delta R.T. 0.00 min

Lab File: BF097803.D

Acq: 17 Aug 2017 23:16

Instrument :

BNA_F

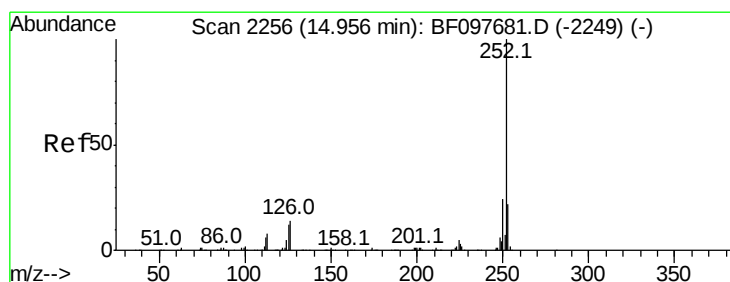
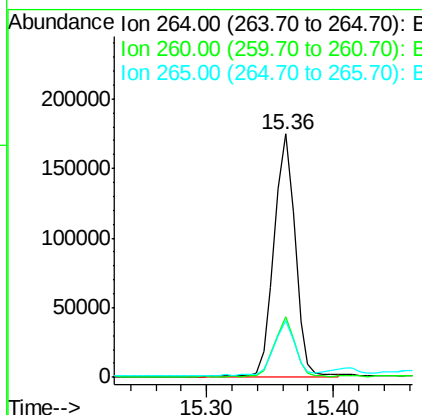
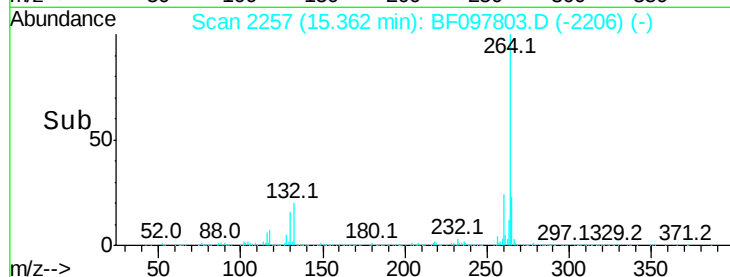
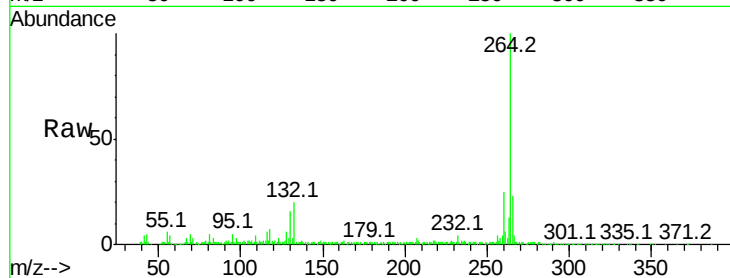
ClientSampleId :

B-15(0-10)COMP

Tot Ion:	264	Resp:	201425
Ion Ratio	Lower	Upper	
264	100		
260	24.7	19.5	29.3
265	23.5	17.2	25.8

Manual Integrations
APPROVED

Sohil
8/18/2017 7:02:28 PM



#87

Benzo(b)fluoranthene

Concen: 14.088 ng m

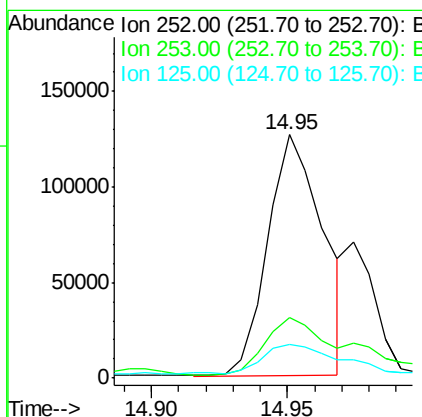
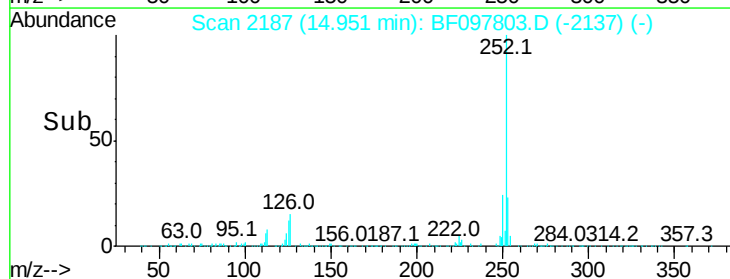
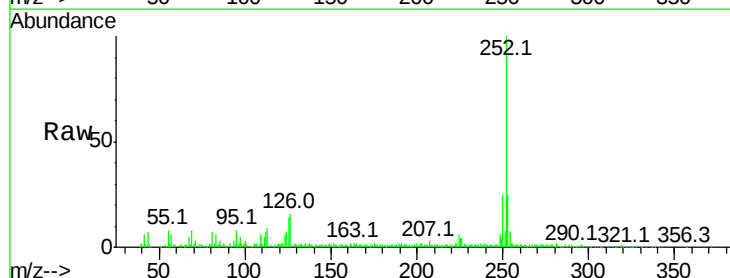
RT: 14.95 min Scan# 2187

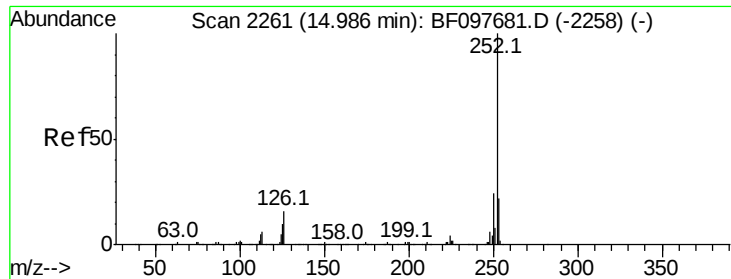
Delta R.T. -0.01 min

Lab File: BF097803.D

Acq: 17 Aug 2017 23:16

Tgt Ion:	252	Resp:	178871
Ion Ratio	Lower	Upper	
252	100		
253	25.1	18.1	27.1
125	13.7	9.8	14.8





#88

Benzo(k)fluoranthene

Concen: 4.518 ng/mL

RT: 14.97 min Scan# 2191

Delta R.T. -0.01 min

Lab File: BF097803.D

Acq: 17 Aug 2017 23:16

Instrument :

BNA_F

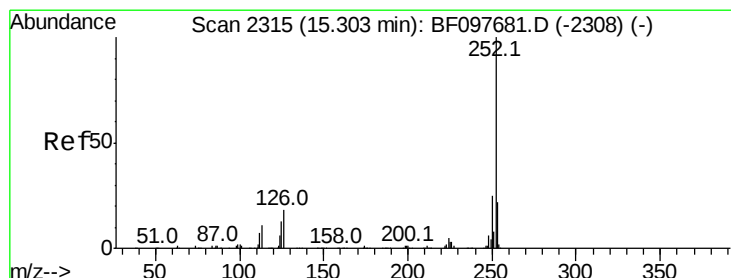
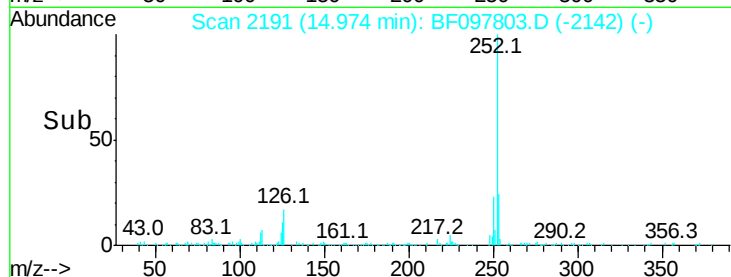
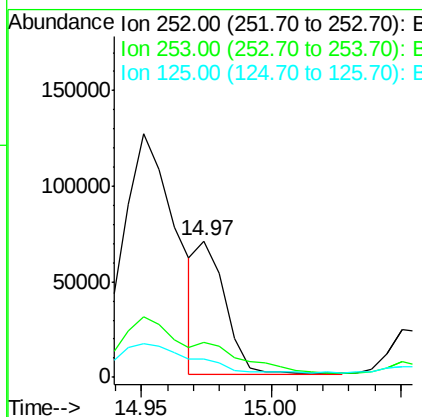
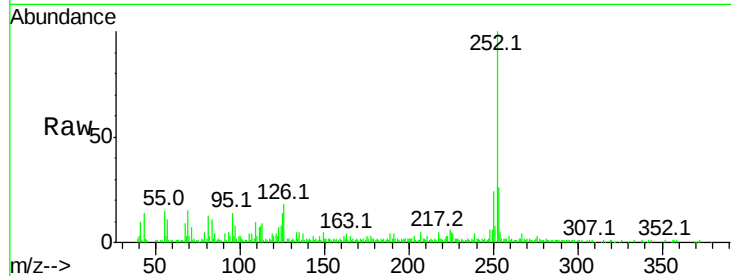
ClientSampleId :

B-15(0-10)COMP

Tot Ion:	252	Resp:	53891
Ion Ratio	Lower	Upper	
252	100		
253	25.6	18.4	27.6
125	13.8	13.1	19.7

Manual Integrations
APPROVED

Sohil
8/18/2017 7:02:28 PM



#89

Benzo(a)pyrene

Concen: 13.648 ng/mL

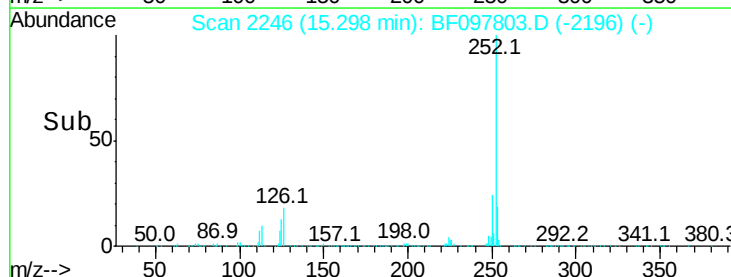
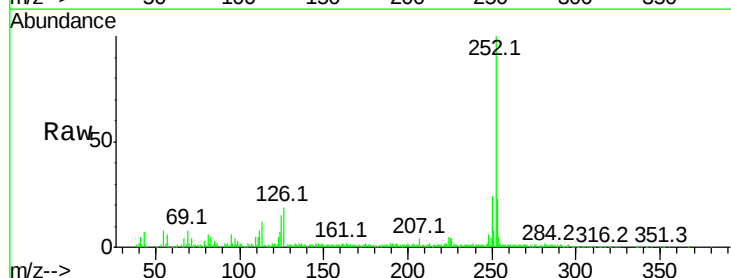
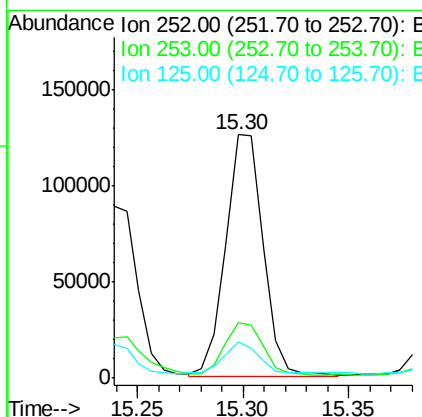
RT: 15.30 min Scan# 2246

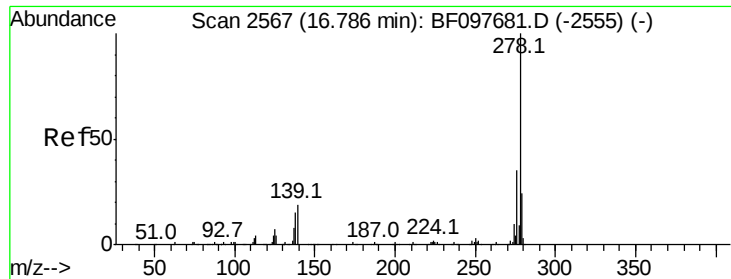
Delta R.T. -0.01 min

Lab File: BF097803.D

Acq: 17 Aug 2017 23:16

Tgt Ion:	252	Resp:	153397
Ion Ratio	Lower	Upper	
252	100		
253	22.8	17.5	26.3
125	15.0	11.0	16.4





#90

Dibenzo(a,h)anthracene

Concen: 2.090 ng

RT: 16.77 min Scan# 2496

Delta R.T. -0.02 min

Lab File: BF097803.D

Acq: 17 Aug 2017 23:16

Instrument :

BNA_F

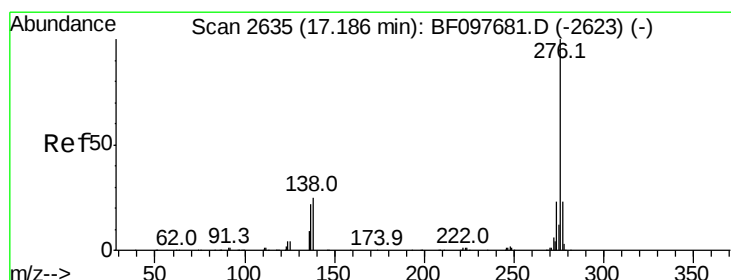
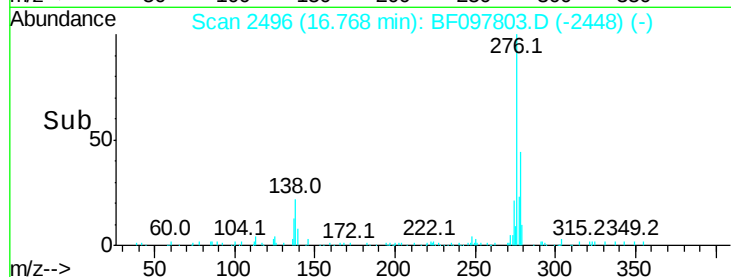
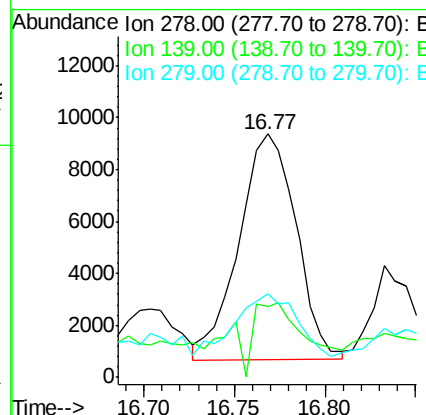
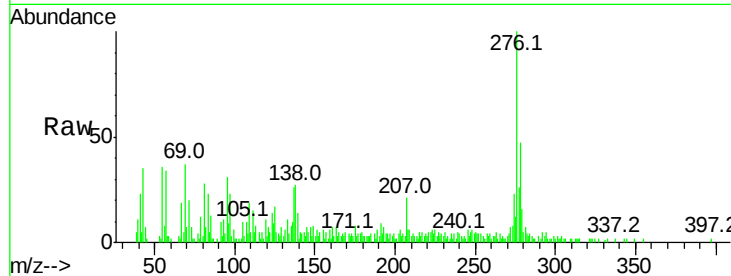
ClientSampleId :

B-15(0-10)COMP

Tot Ion:	278	Resp:	19122
Ion Ratio	Lower	Upper	
278	100		
139	28.9	16.6	24.8#
279	34.4	19.3	28.9#

Manual Integrations
APPROVED

Sohil
8/18/2017 7:02:28 PM



#91

Benzo(g,h,i)perylene

Concen: 6.507 ng

RT: 17.17 min Scan# 2565

Delta R.T. -0.01 min

Lab File: BF097803.D

Acq: 17 Aug 2017 23:16

Tgt Ion:	276	Resp:	62124
Ion Ratio	Lower	Upper	
276	100		
277	25.1	18.6	28.0
138	28.5	25.4	38.0

