

Data Path : Z:\HPCHEM1\BNA F\DATA\BF120417\
 Data File : BF101090.D
 Acq On : 4 Dec 2017 11:48
 Operator : SJ/JU
 Sample : I6620-01
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SB-1(0-2)-20171128

Manual Integrations
 APPROVED

Sohil
 12/5/2017 3:23:36 PM

Quant Time: Dec 04 15:36:15 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF113017.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Dec 04 13:07:49 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.85	152	51562	20.00	ng	0.00
21) Naphthalene-d8	8.13	136	198494	20.00	ng	0.00
38) Acenaphthene-d10	9.88	164	93389	20.00	ng	0.00
63) Phenanthrene-d10	11.37	188	180400	20.00	ng	0.00
75) Chrysene-d12	14.02	240	117701	20.00	ng	0.00
86) Perylene-d12	15.49	264	125380	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.47	112	355707	114.00	ng	0.00
7) Phenol-d6	6.48	99	433347	114.39	ng	0.00
23) Nitrobenzene-d5	7.41	82	266062	79.96	ng	0.00
41) 2,4,6-Tribromophenol	10.67	330	117904	105.10	ng	0.00
44) 2-Fluorobiphenyl	9.20	172	517869	75.87	ng	0.00
78) Terphenyl-d14	12.96	244	465063	86.42	ng	0.00
Target Compounds						Qvalue
10) Phenol	6.49	94	14425	3.42	ng	89
48) Acenaphthylene	9.75	152	25934	2.60	ng	98
49) Dimethylphthalate	9.59	163	47107	6.25	ng	100
70) Phenanthrene	11.40	178	160785	16.18	ng	97
71) Anthracene	11.44	178	44164	4.39	ng	98
72) Carbazole	11.60	167	20161	2.19	ng	# 93
74) Fluoranthene	12.59	202	326975	29.69	ng	95
77) Pyrene	12.82	202	286798	35.31	ng	99
80) Benzo(a)anthracene	14.00	228	147424	19.84	ng	97
82) Chrysene	14.04	228	136408	19.76	ng	97
85) Indeno(1,2,3-cd)pyrene	16.97	276	133871	21.82	ng	# 89
87) Benzo(b)fluoranthene	15.06	252	217065m	28.90	ng	
88) Benzo(k)fluoranthene	15.09	252	91046m	12.31	ng	
89) Benzo(a)pyrene	15.43	252	167070	24.47	ng	96
90) Dibenzo(a,h)anthracene	16.97	278	34895m	5.80	ng	
91) Benzo(g,h,i)perylene	17.42	276	124090	21.88	ng	# 90

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

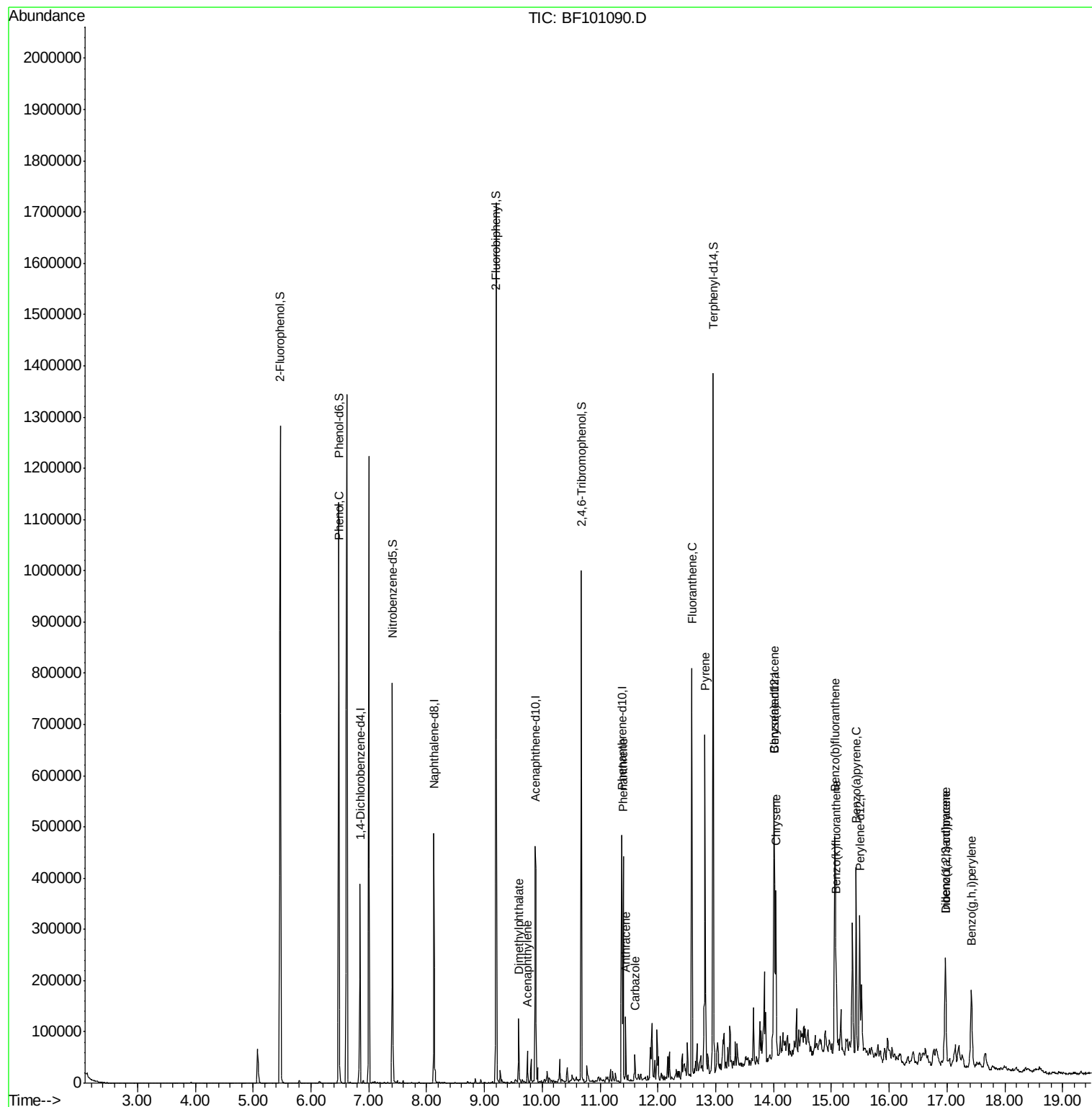
Data Path : Z:\HPCHEM1\BNA F\DATA\BF120417\
Data File : BF101090.D
Acq On : 4 Dec 2017 11:48
Operator : SJ/JU
Sample : I6620-01
Misc :
ALS Vial : 6 Sample Multiplier: 1

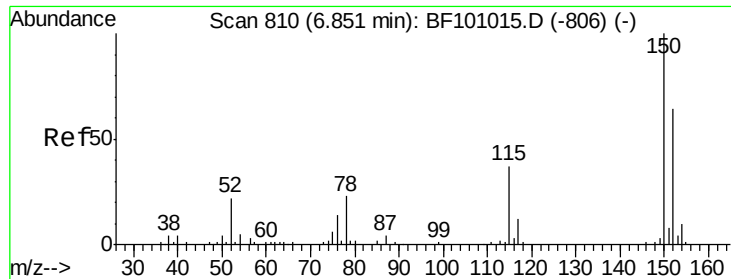
Instrument :
BNA_F
ClientSampleId :
SB-1(0-2)-20171128

Manual Integrations
APPROVED

Sohil
12/5/2017 3:23:36 PM

Quant Time: Dec 04 15:36:15 2017
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF113017.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Dec 04 13:07:49 2017
Response via : Initial Calibration





#1

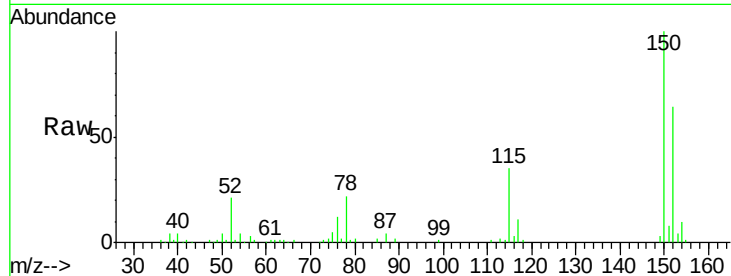
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 6.85 min Scan# 809
Delta R.T. 0.00 min
Lab File: BF101090.D
Acq: 4 Dec 2017 11:48

Instrument :
BNA_F
ClientSampleId :
SB-1(0-2)-20171128

Tot Ion	Ratio	Lower	Upper
152	100		
150	156.9	124.6	186.8
115	55.3	50.1	75.1

Manual Integrations
APPROVED

Sohil
12/5/2017 3:23:36 PM

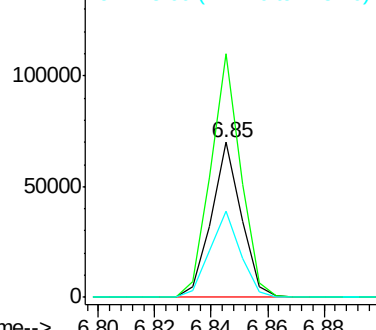


Abundance

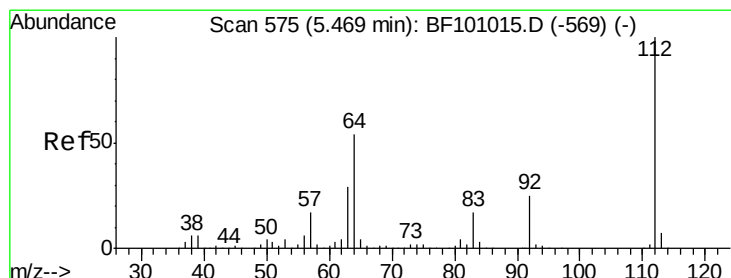
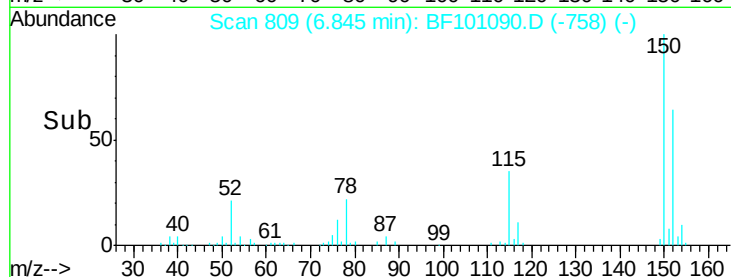
Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

Ion 115.00 (114.70 to 115.70): E



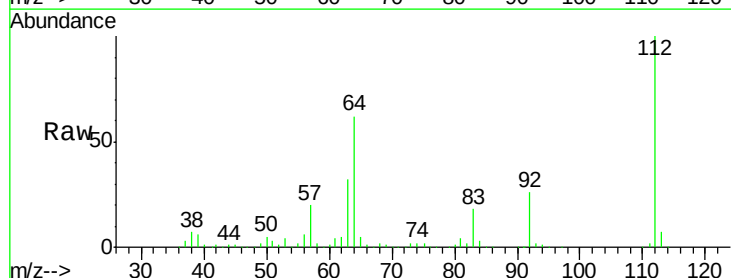
Time--> 6.80 6.82 6.84 6.86 6.88



#5

2-Fluorophenol
Concen: 114.00 ng
RT: 5.47 min Scan# 575
Delta R.T. 0.01 min
Lab File: BF101090.D
Acq: 4 Dec 2017 11:48

Tgt Ion	Ratio	Lower	Upper
112	100		
64	62.0	47.9	71.9
63	31.8	23.7	35.5

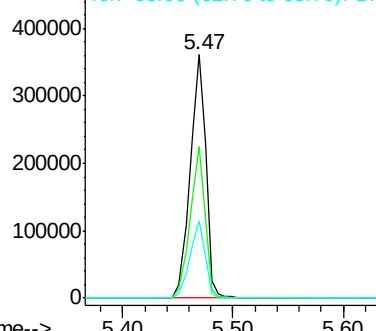


Abundance

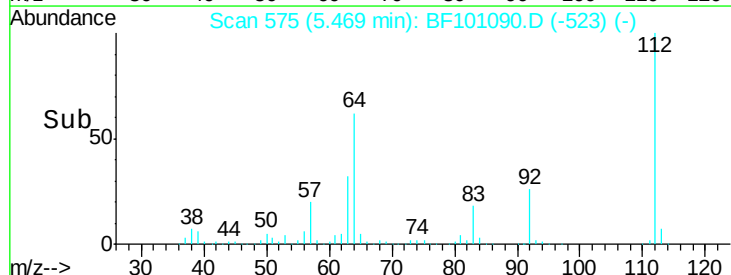
Ion 112.00 (111.70 to 112.70): E

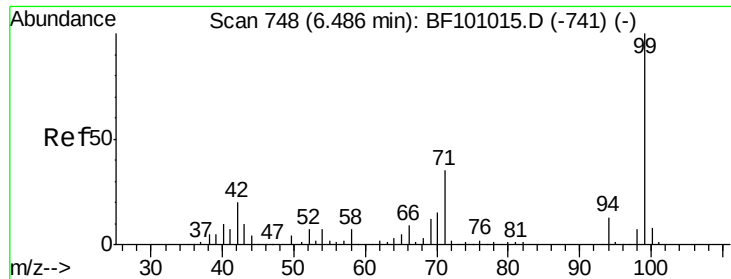
Ion 64.00 (63.70 to 64.70): BF1

Ion 63.00 (62.70 to 63.70): BF1



Time--> 5.40 5.50 5.60





#7

Phenol-d6

Concen: 114.39 ng

RT: 6.48 min Scan# 747

Delta R.T. 0.00 min

Lab File: BF101090.D

Acq: 4 Dec 2017 11:48

Instrument :

BNA_F

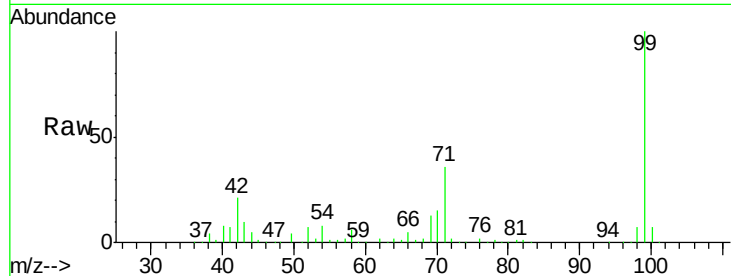
ClientSampleId :

SB-1(0-2)-20171128

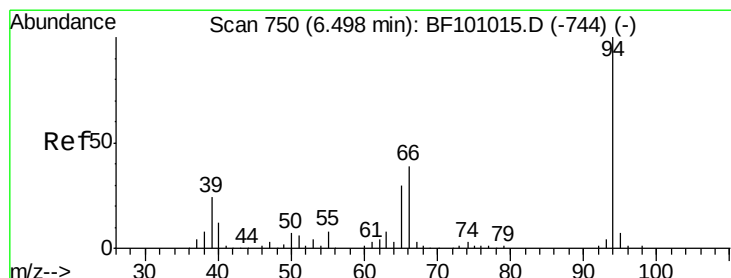
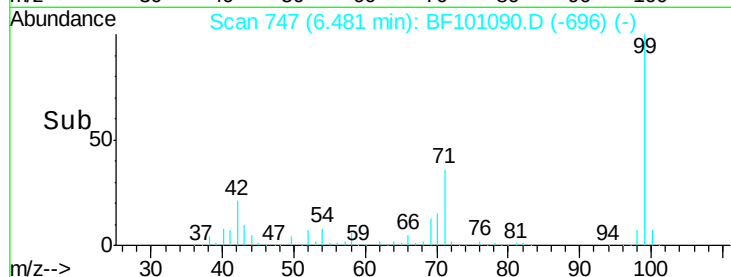
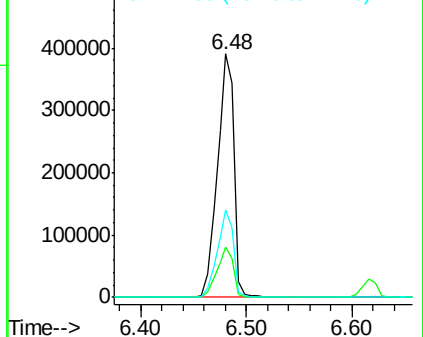
Tot Ion:	99	Resp:	433347
Ion Ratio	Lower	Upper	
99	100		
42	20.8	14.5	21.7
71	36.0	25.4	38.0

Manual Integrations
APPROVED

Sohil
12/5/2017 3:23:36 PM



Abundance Ion 99.00 (98.70 to 99.70): BF1
Ion 42.00 (41.70 to 42.70): BF1
Ion 71.00 (70.70 to 71.70): BF1



#10

Phenol

Concen: 3.42 ng

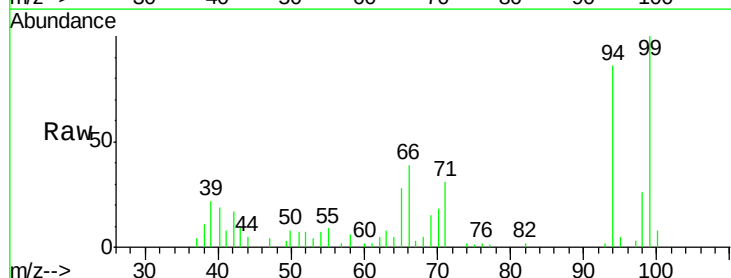
RT: 6.49 min Scan# 749

Delta R.T. 0.00 min

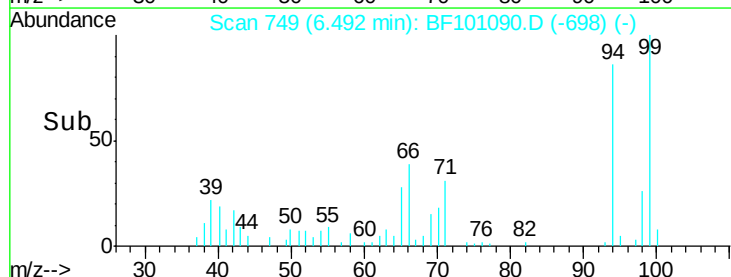
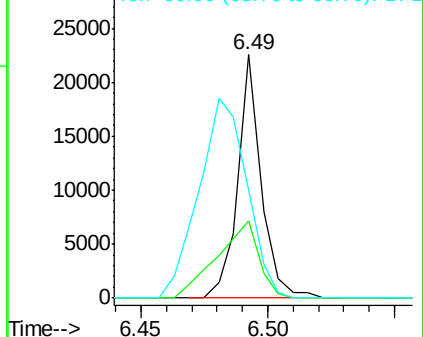
Lab File: BF101090.D

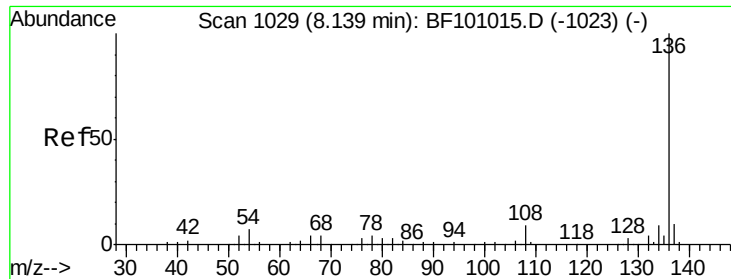
Acq: 4 Dec 2017 11:48

Tgt Ion:	94	Resp:	14425
Ion Ratio	Lower	Upper	
94	100		
65	31.9	7.9	47.9
66	44.6	16.2	56.2



Abundance Ion 94.00 (93.70 to 94.70): BF1
Ion 65.00 (64.70 to 65.70): BF1
Ion 66.00 (65.70 to 66.70): BF1





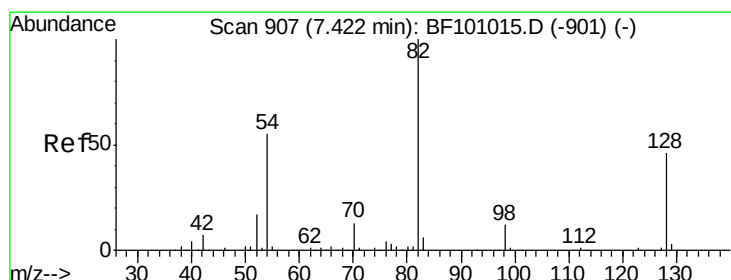
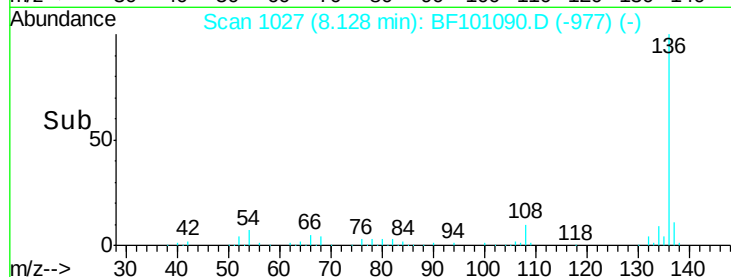
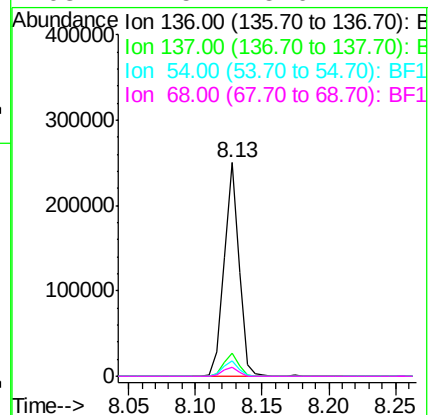
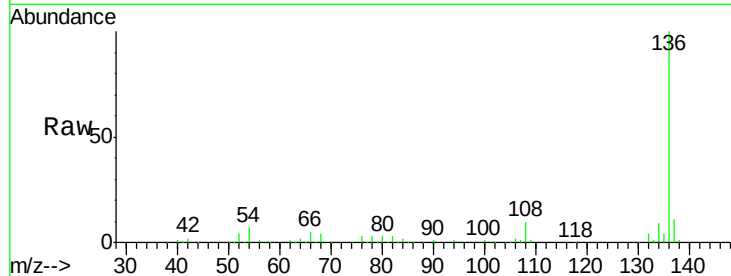
#21
Naphthalene-d8
Concen: 20.00 ng
RT: 8.13 min Scan# 1027
Delta R.T. -0.01 min
Lab File: BF101090.D
Acq: 4 Dec 2017 11:48

Instrument :
BNA_F
ClientSampleId :
SB-1(0-2)-20171128

Tot Ion	Ratio	Resp	Lower	Upper
136	100	198494		
137	10.6	8.9	13.3	
54	7.4	6.6	9.8	
68	4.5	5.0	7.4#	

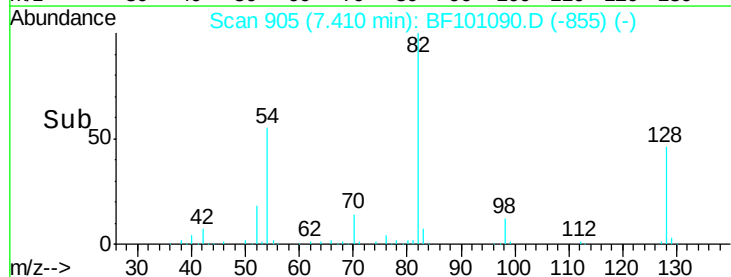
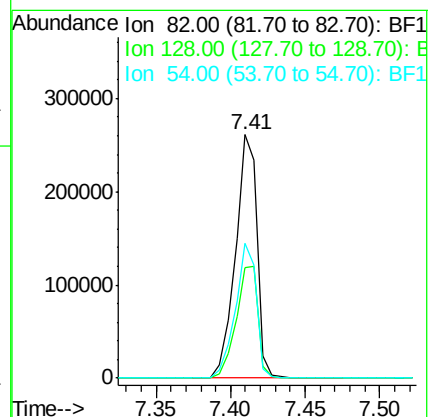
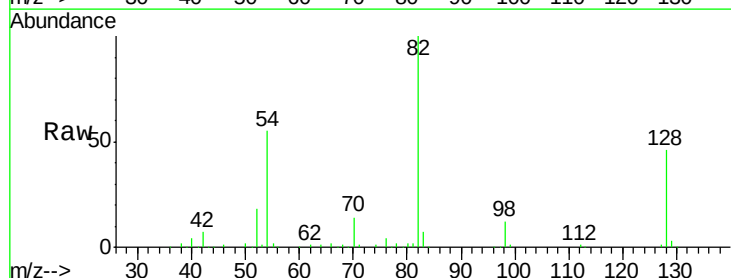
Manual Integrations
APPROVED

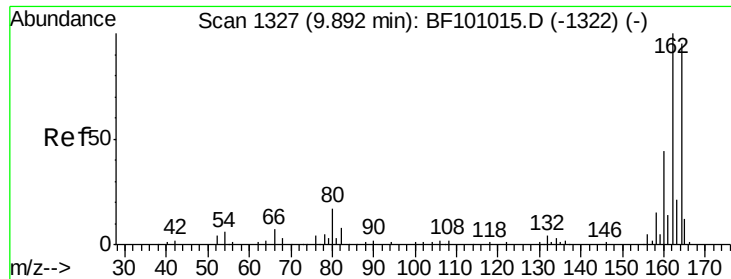
Sohil
12/5/2017 3:23:36 PM



#23
Nitrobenzene-d5
Concen: 79.96 ng
RT: 7.41 min Scan# 905
Delta R.T. -0.01 min
Lab File: BF101090.D
Acq: 4 Dec 2017 11:48

Tgt Ion	Ratio	Resp	Lower	Upper
82	100	266062		
128	45.6	36.1	54.1	
54	55.4	41.4	62.2	





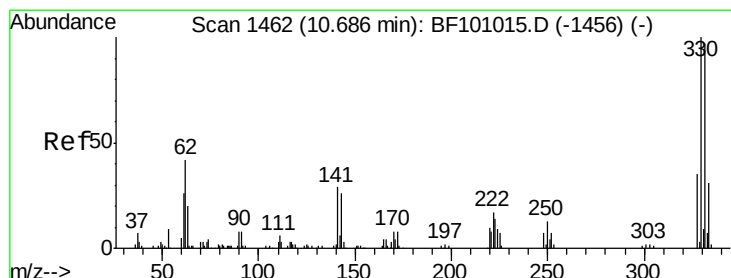
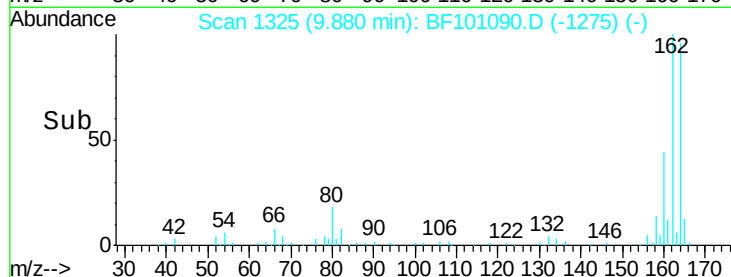
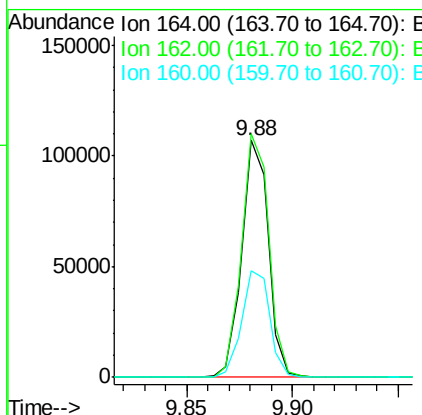
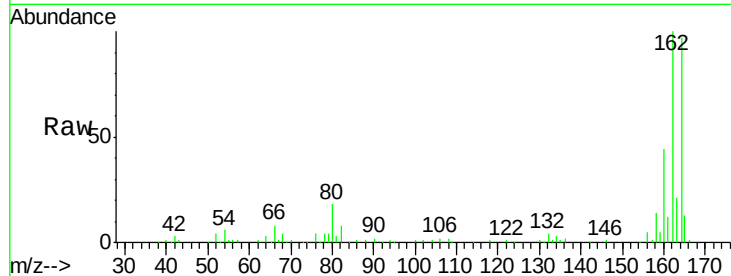
#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 9.88 min Scan# 1325
Delta R.T. -0.01 min
Lab File: BF101090.D
Acq: 4 Dec 2017 11:48

Instrument :
BNA_F
ClientSampleId :
SB-1(0-2)-20171128

Tot Ion	Ratio	Lower	Upper
164	100		
162	102.7	86.1	129.1
160	45.1	38.3	57.5

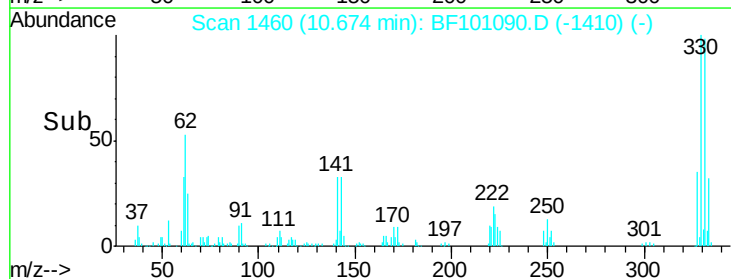
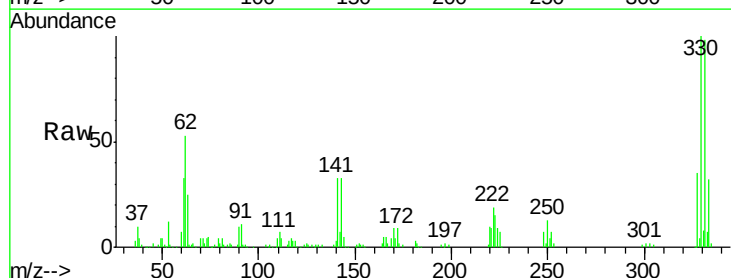
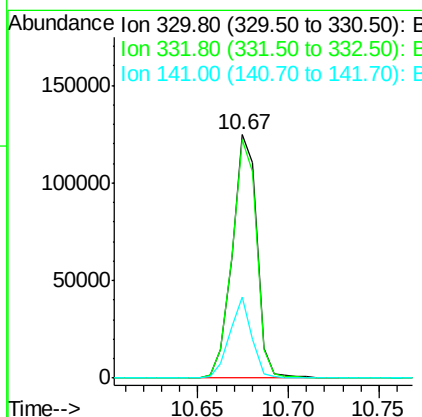
Manual Integrations
APPROVED

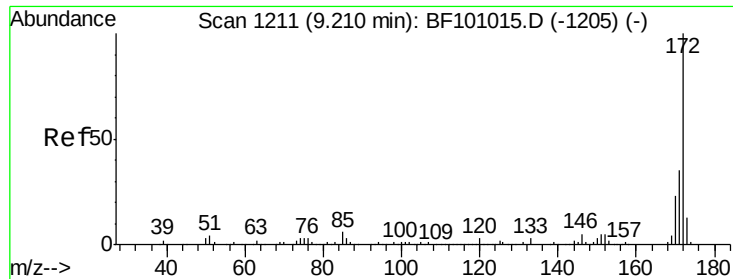
Sohil
12/5/2017 3:23:36 PM



#41
2,4,6-Tribromophenol
Concen: 105.10 ng
RT: 10.67 min Scan# 1460
Delta R.T. -0.01 min
Lab File: BF101090.D
Acq: 4 Dec 2017 11:48

Tgt Ion	Ratio	Lower	Upper
330	100		
332	97.9	77.0	115.6
141	29.9	29.9	44.9#





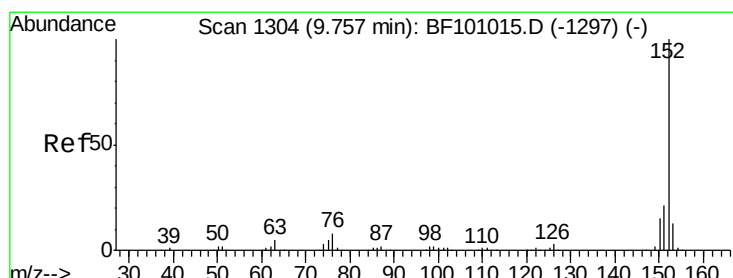
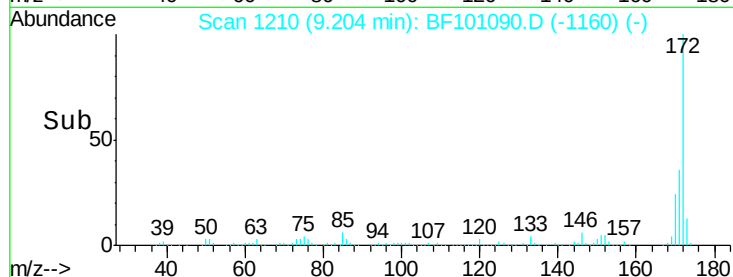
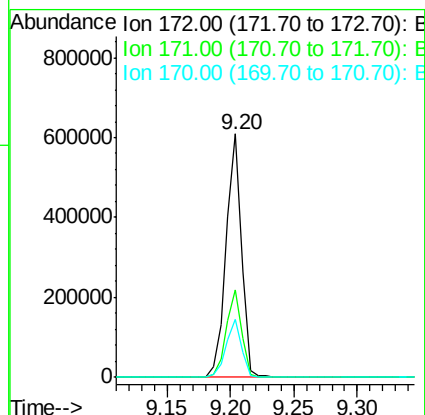
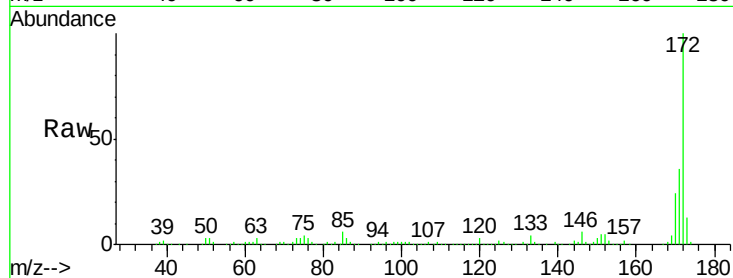
#44
2-Fluorobiphenyl
Concen: 75.87 ng
RT: 9.20 min Scan# 1210
Delta R.T. -0.01 min
Lab File: BF101090.D
Acq: 4 Dec 2017 11:48

Instrument :
BNA_F
ClientSampleId :
SB-1(0-2)-20171128

Tot Ion	Ratio	Resp	Lower	Upper
172	100	517869		
171	35.9		29.7	44.5
170	23.6		19.6	29.4

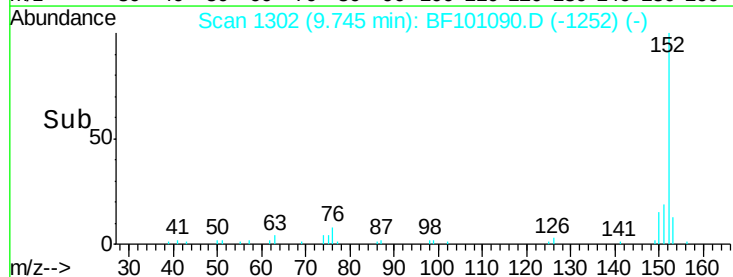
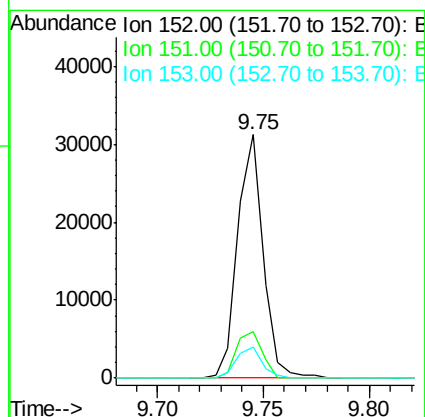
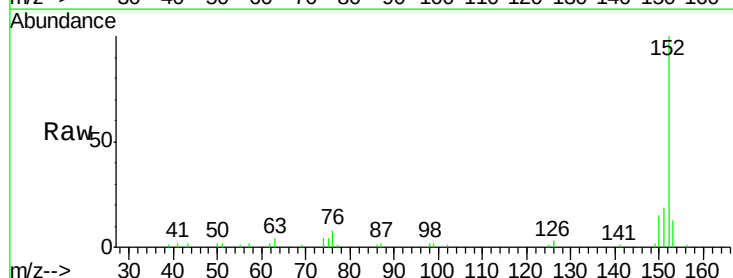
Manual Integrations
APPROVED

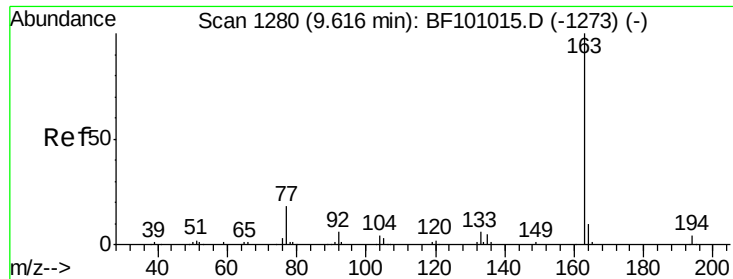
Sohil
12/5/2017 3:23:36 PM



#48
Acenaphthylene
Concen: 2.60 ng
RT: 9.75 min Scan# 1302
Delta R.T. -0.01 min
Lab File: BF101090.D
Acq: 4 Dec 2017 11:48

Tgt Ion	Ratio	Resp	Lower	Upper
152	100	25934		
151	19.1		16.3	24.5
153	12.8		10.7	16.1





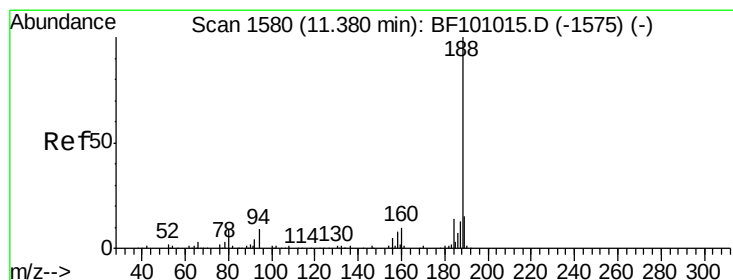
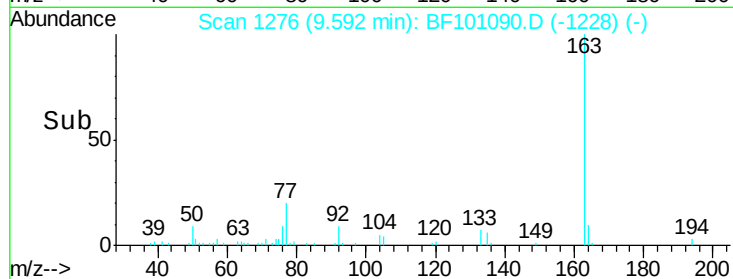
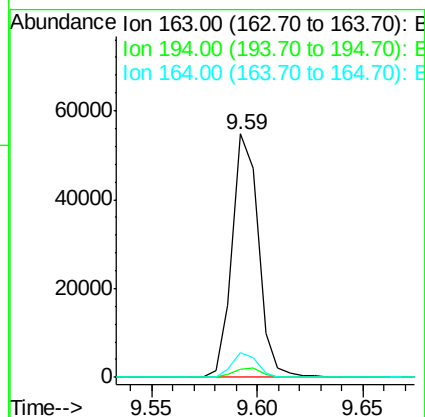
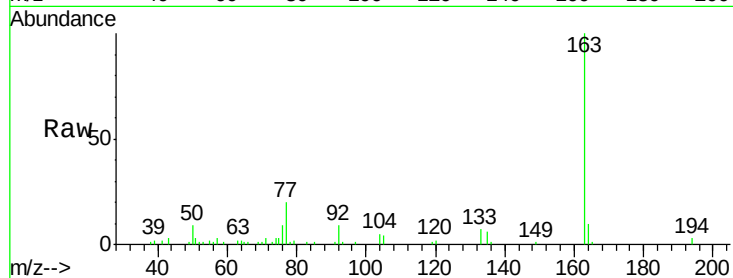
#49
Dimethylphthalate
Concen: 6.25 ng
RT: 9.59 min Scan# 1276
Delta R.T. -0.02 min
Lab File: BF101090.D
Acq: 4 Dec 2017 11:48

Instrument :
BNA_F
ClientSampleId :
SB-1(0-2)-20171128

Tot Ion	Ratio	Lower	Upper
163	100		
194	3.5	2.7	4.1
164	10.3	8.2	12.2

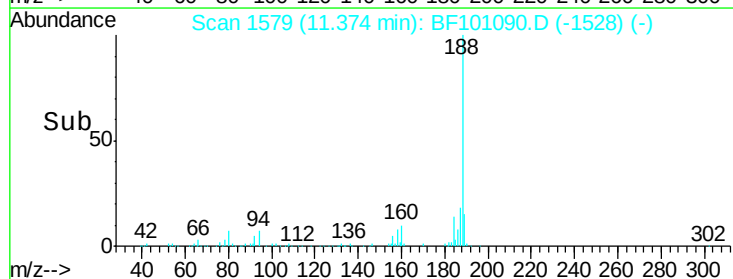
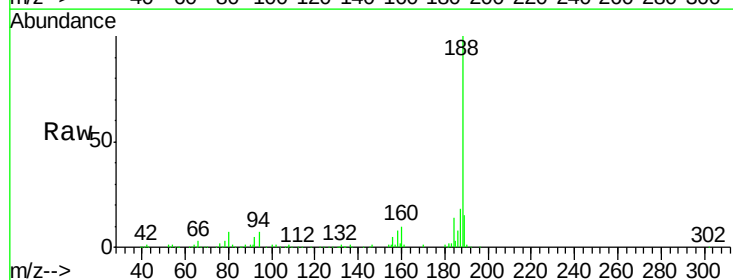
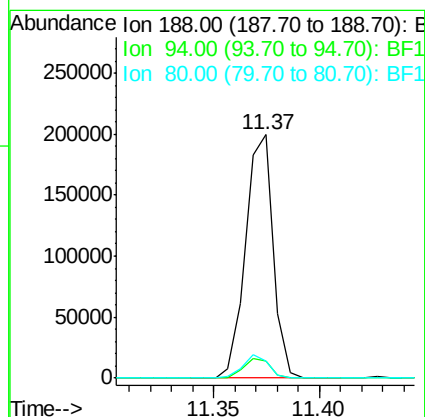
Manual Integrations
APPROVED

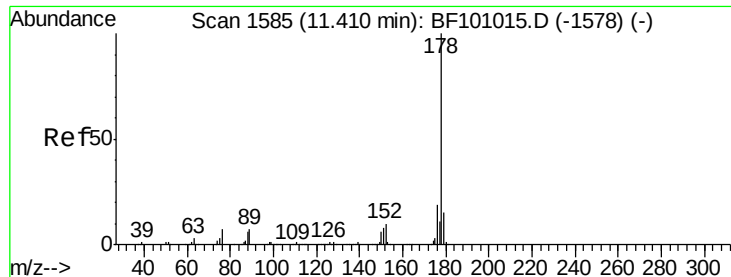
Sohil
12/5/2017 3:23:36 PM



#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 11.37 min Scan# 1579
Delta R.T. 0.00 min
Lab File: BF101090.D
Acq: 4 Dec 2017 11:48

Tgt Ion	Ratio	Lower	Upper
188	100		
94	6.9	8.5	12.7#
80	7.2	9.2	13.8#





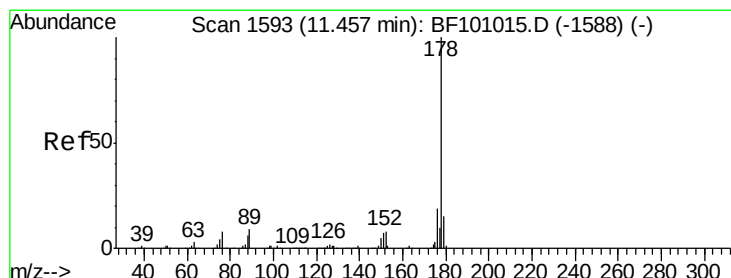
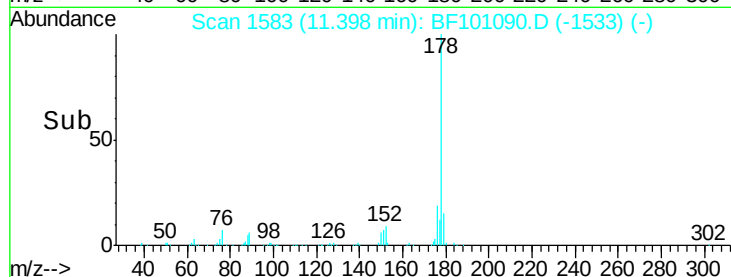
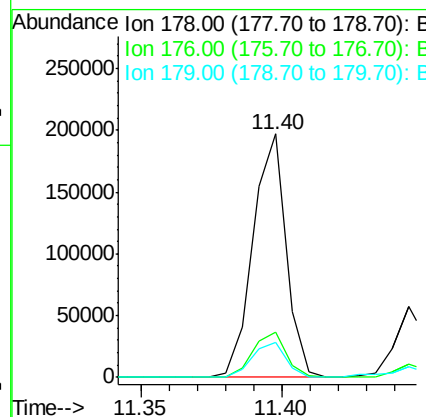
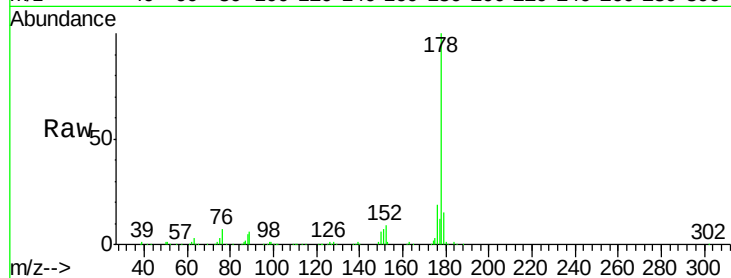
#70
Phenanthrene
Concen: 16.18 ng
RT: 11.40 min Scan# 1583
Delta R.T. -0.01 min
Lab File: BF101090.D
Acq: 4 Dec 2017 11:48

Instrument :
BNA_F
ClientSampleId :
SB-1(0-2)-20171128

Tot Ion	Ratio	Lower	Upper
178	100		
176	18.6	15.8	23.8
179	14.6	13.0	19.6

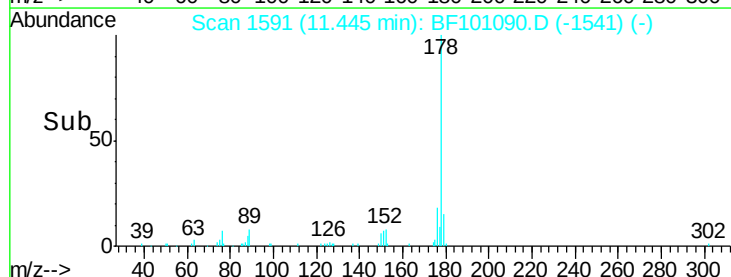
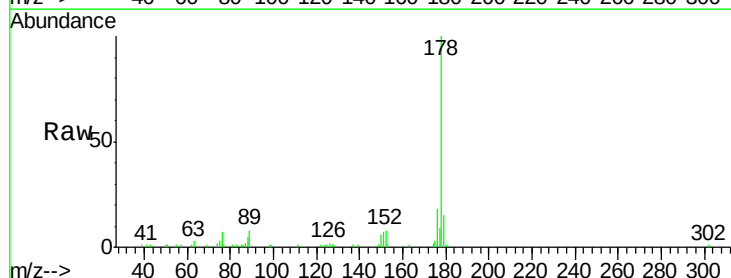
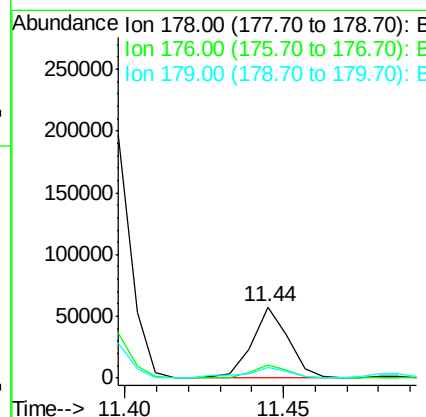
Manual Integrations
APPROVED

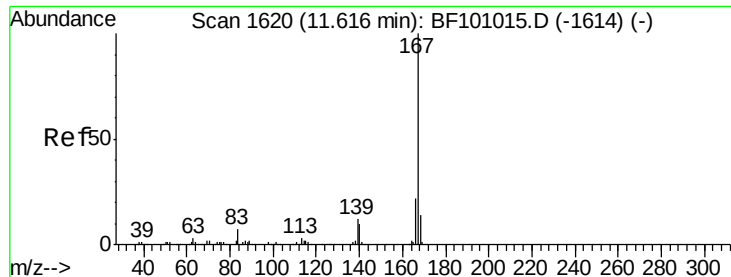
Sohil
12/5/2017 3:23:36 PM



#71
Anthracene
Concen: 4.39 ng
RT: 11.44 min Scan# 1591
Delta R.T. -0.01 min
Lab File: BF101090.D
Acq: 4 Dec 2017 11:48

Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.1	15.4	23.2
179	15.2	12.6	19.0





#72

Carbazole

Concen: 2.19 ng

RT: 11.60 min Scan# 1618

Delta R.T. -0.01 min

Lab File: BF101090.D

Acq: 4 Dec 2017 11:48

Instrument :

BNA_F

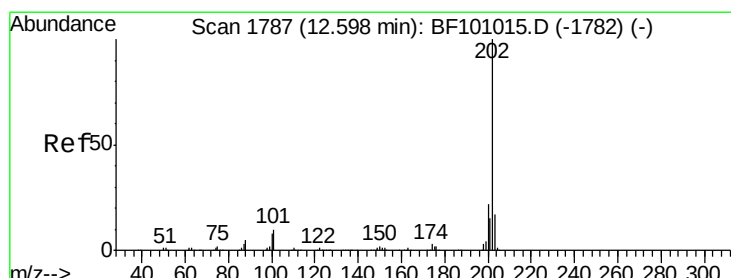
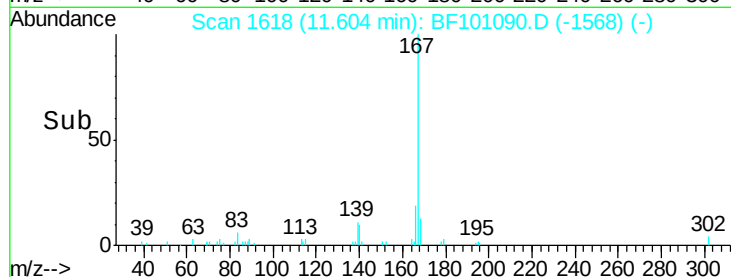
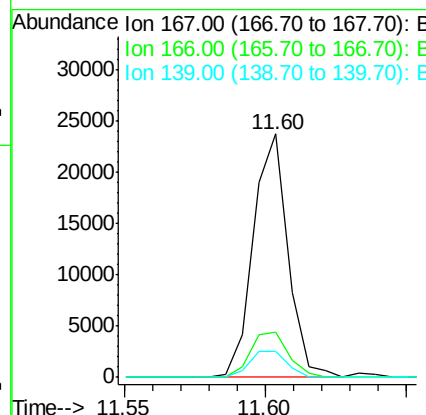
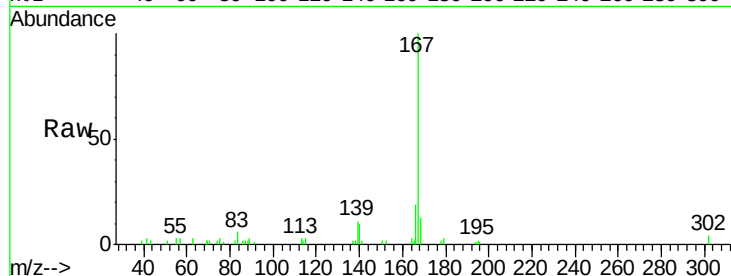
ClientSampleId :

SB-1(0-2)-20171128

Tot Ion:	167	Resp:	20161
Ion Ratio	Lower	Upper	
167	100		
166	18.6	17.6	26.4
139	10.8	10.9	16.3#

Manual Integrations
APPROVED

Sohil
12/5/2017 3:23:36 PM



#74

Fluoranthene

Concen: 29.69 ng

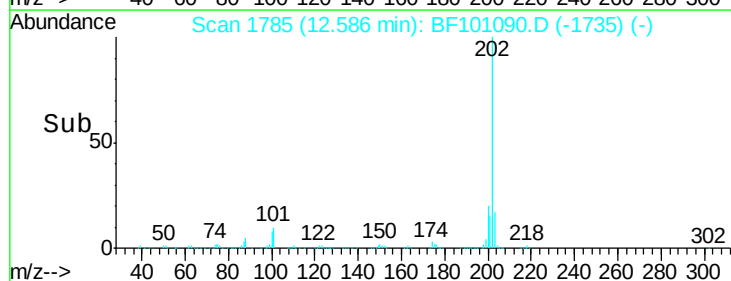
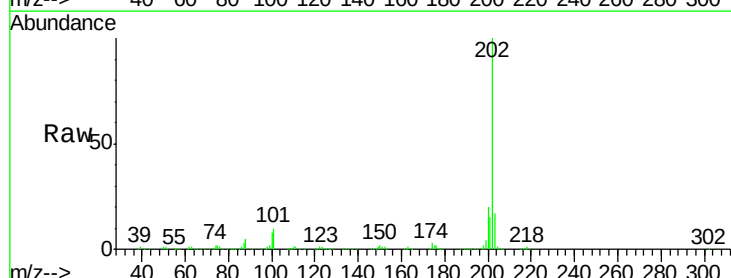
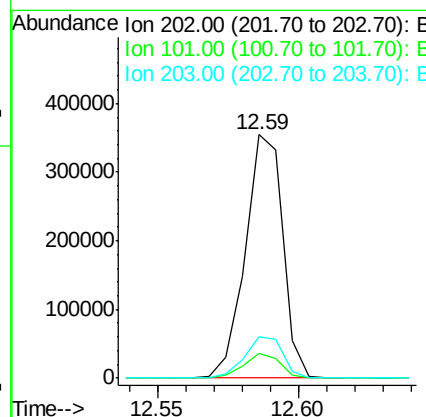
RT: 12.59 min Scan# 1785

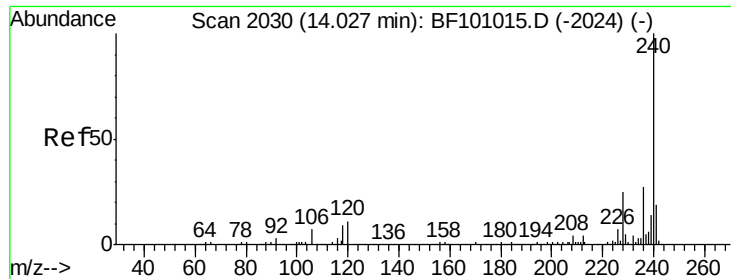
Delta R.T. -0.01 min

Lab File: BF101090.D

Acq: 4 Dec 2017 11:48

Tgt Ion:	202	Resp:	326975
Ion Ratio	Lower	Upper	
202	100		
101	10.4	0.0	34.1
203	17.2	0.0	38.1





#75

Chrysene-d12

Concen: 20.00 ng

RT: 14.02 min Scan# 2028

Delta R.T. -0.01 min

Lab File: BF101090.D

Acq: 4 Dec 2017 11:48

Instrument :

BNA_F

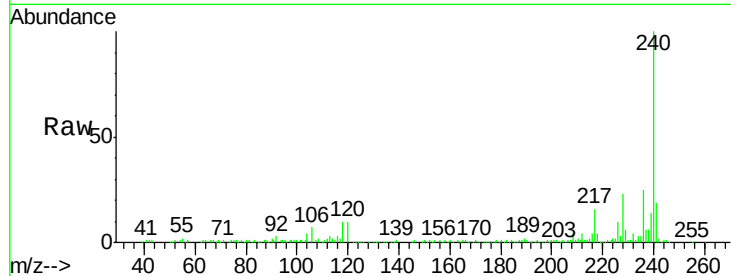
ClientSampleId :

SB-1(0-2)-20171128

Tot Ion:	240	Resp:	117701
Ion Ratio	Lower	Upper	
240	100		
120	10.1	9.5	14.3
236	24.9	20.7	31.1

Manual Integrations
APPROVED

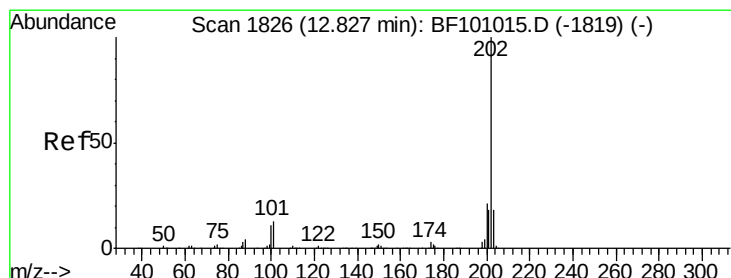
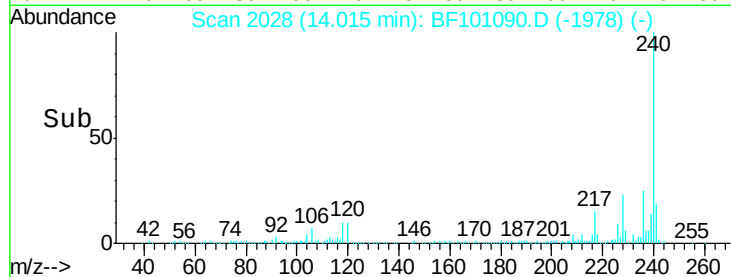
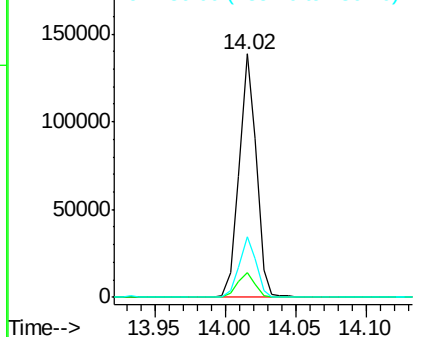
Sohil
12/5/2017 3:23:36 PM



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: 35.31 ng

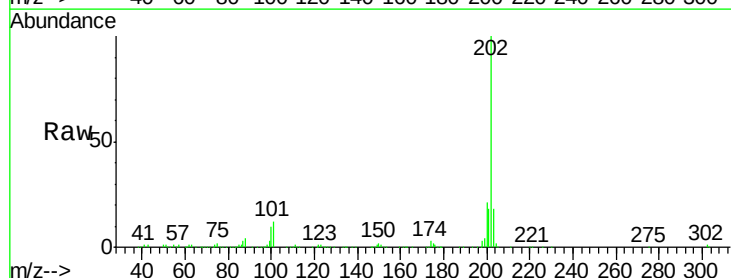
RT: 12.82 min Scan# 1824

Delta R.T. -0.01 min

Lab File: BF101090.D

Acq: 4 Dec 2017 11:48

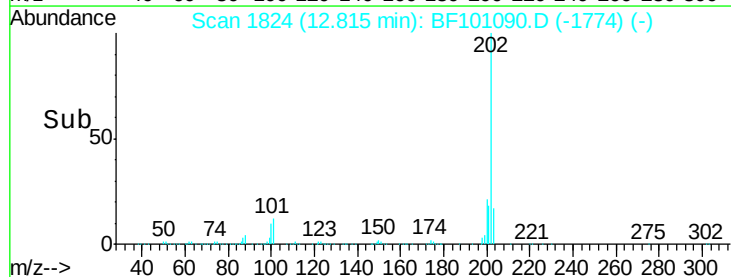
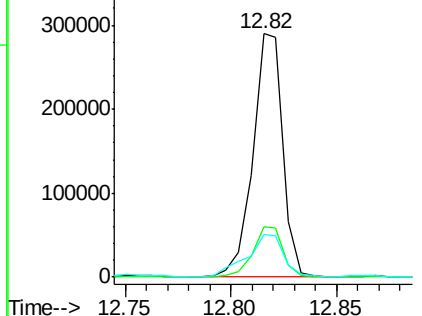
Tgt Ion:	202	Resp:	286798
Ion Ratio	Lower	Upper	
202	100		
200	20.6	17.4	26.2
203	17.8	14.3	21.5

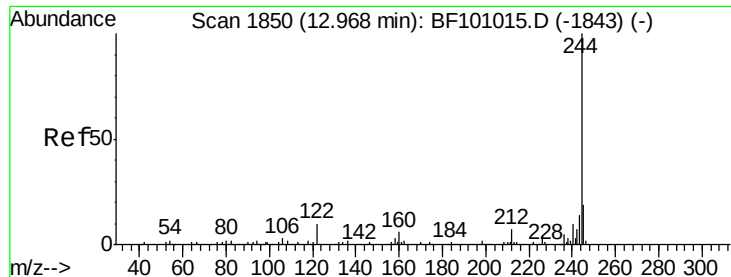


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#78

Terphenyl-d14

Concen: 86.42 ng

RT: 12.96 min Scan# 1848

Delta R.T. -0.01 min

Lab File: BF101090.D

Acq: 4 Dec 2017 11:48

Instrument :

BNA_F

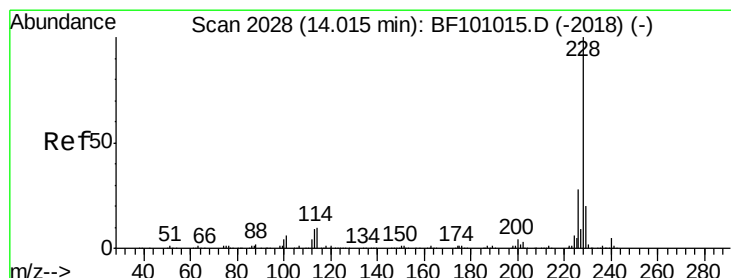
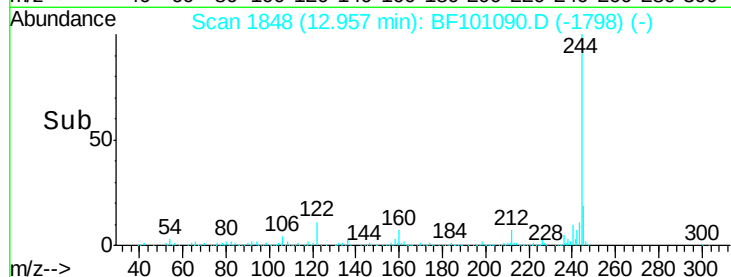
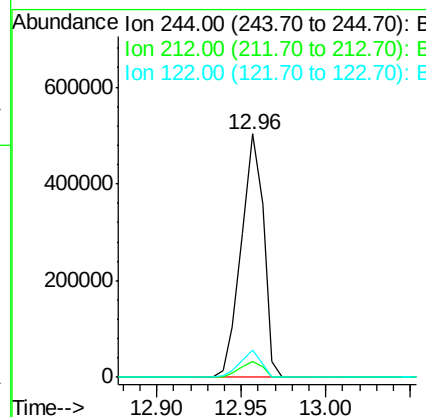
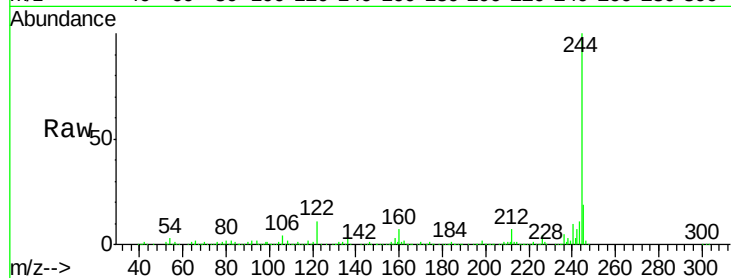
ClientSampleId :

SB-1(0-2)-20171128

Tot Ion:	244	Resp:	465063
Ion Ratio	Lower	Upper	
244	100		
212	6.7	5.4	8.0
122	11.1	11.0	16.4

Manual Integrations
APPROVED

Sohil
12/5/2017 3:23:36 PM



#80

Benzo(a)anthracene

Concen: 19.84 ng

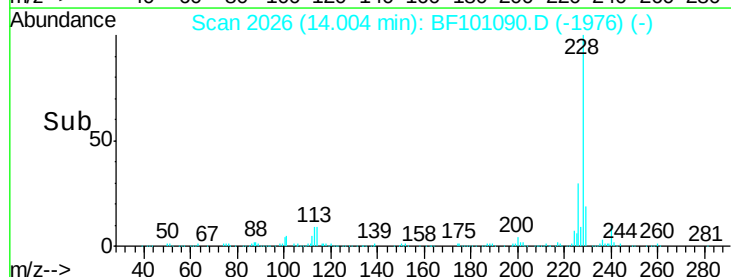
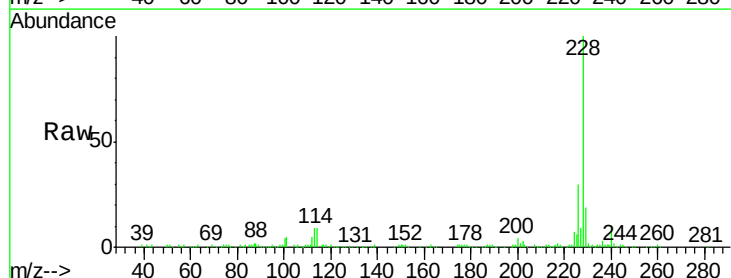
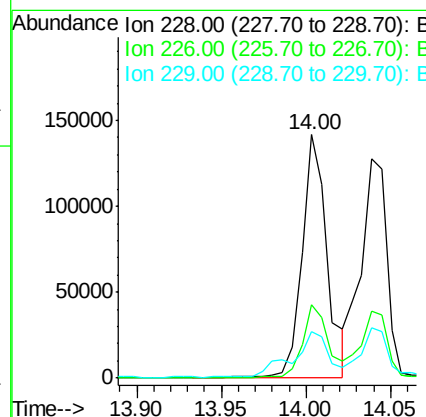
RT: 14.00 min Scan# 2026

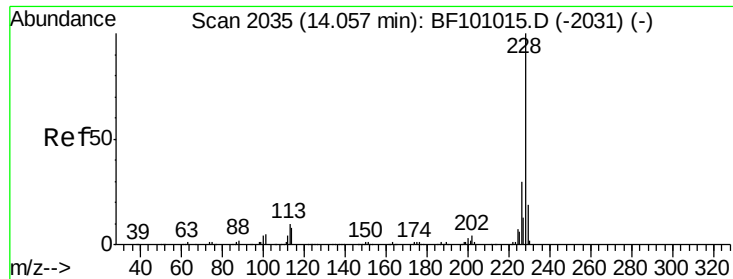
Delta R.T. -0.01 min

Lab File: BF101090.D

Acq: 4 Dec 2017 11:48

Tgt Ion:	228	Resp:	147424
Ion Ratio	Lower	Upper	
228	100		
226	30.3	22.6	33.8
229	19.3	15.8	23.6





#82

Chrysene

Concen: 19.76 ng

RT: 14.04 min Scan# 2032

Delta R.T. -0.01 min

Lab File: BF101090.D

Acq: 4 Dec 2017 11:48

Instrument :

BNA_F

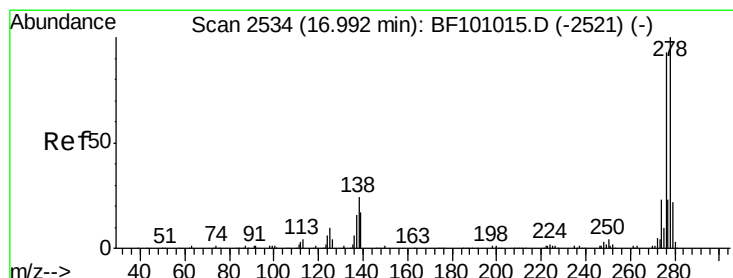
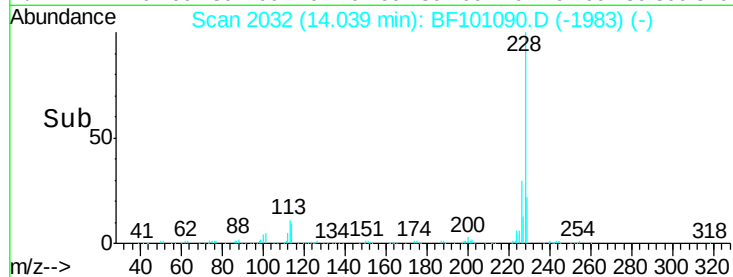
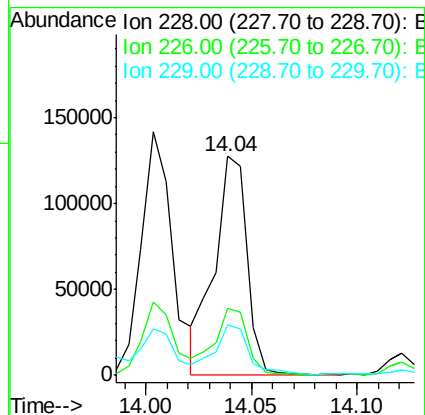
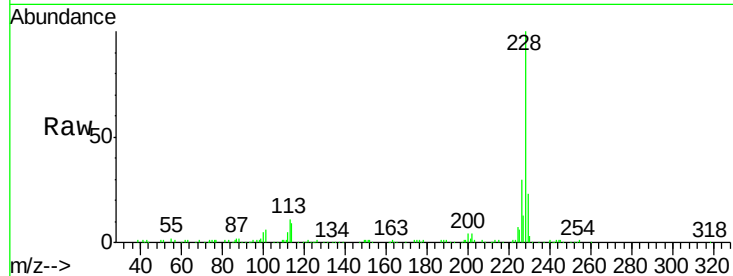
ClientSampleId :

SB-1(0-2)-20171128

Tot Ion:	228	Resp:	136408
Ion Ratio	Lower	Upper	
228	100		
226	30.4	25.0	37.6
229	22.9	16.2	24.4

Manual Integrations
APPROVED

Sohil
12/5/2017 3:23:36 PM



#85

Indeno(1,2,3-cd)pyrene

Concen: 21.82 ng

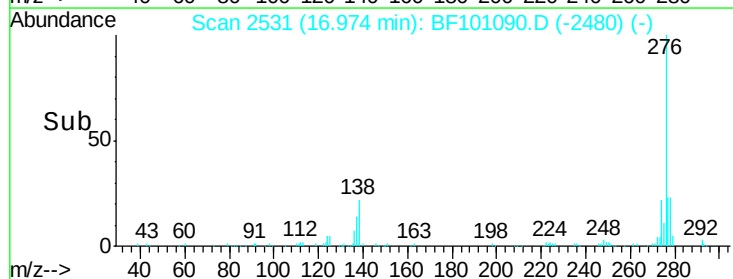
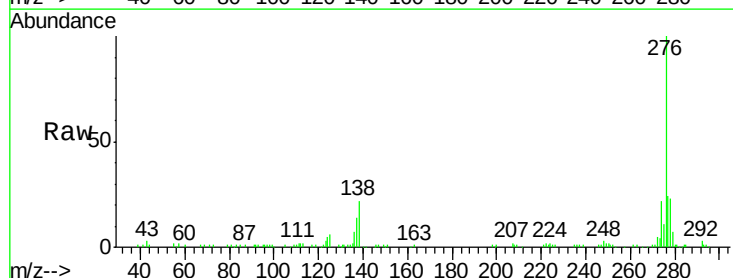
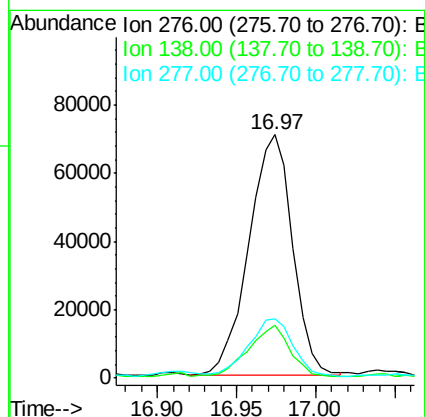
RT: 16.97 min Scan# 2531

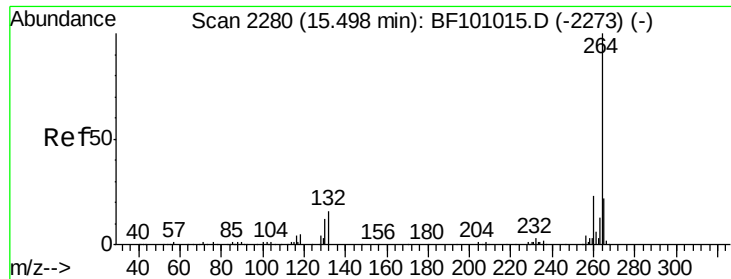
Delta R.T. 0.00 min

Lab File: BF101090.D

Acq: 4 Dec 2017 11:48

Tgt Ion:	276	Resp:	133871
Ion Ratio	Lower	Upper	
276	100		
138	20.9	25.0	37.6#
277	24.3	20.1	30.1





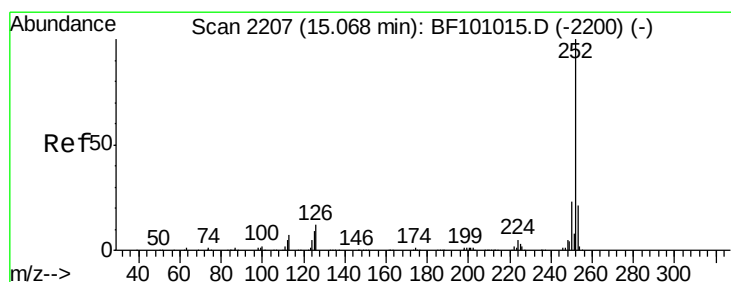
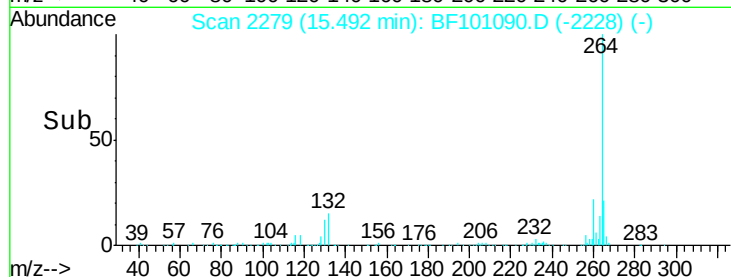
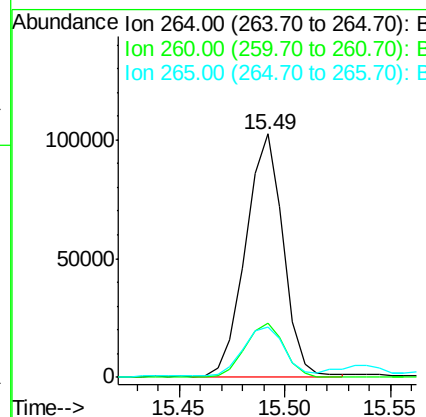
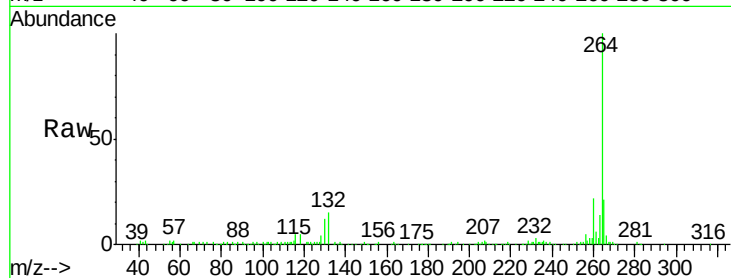
#86
Pervlene-d12
Concen: 20.00 ng
RT: 15.49 min Scan# 2279
Delta R.T. 0.00 min
Lab File: BF101090.D
Acq: 4 Dec 2017 11:48

Instrument :
BNA_F
ClientSampleId :
SB-1(0-2)-20171128

Tot Ion:	264	Resp:	125380
Ion Ratio		Lower	Upper
264	100		
260	22.4	19.2	28.8
265	20.8	17.5	26.3

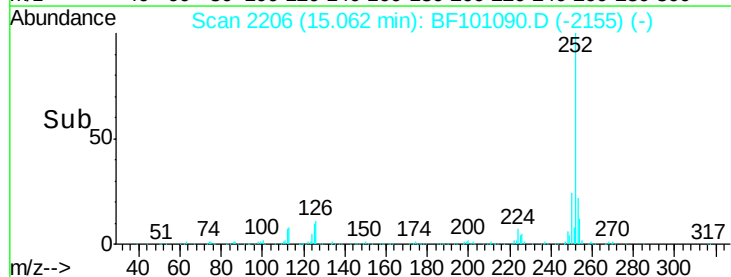
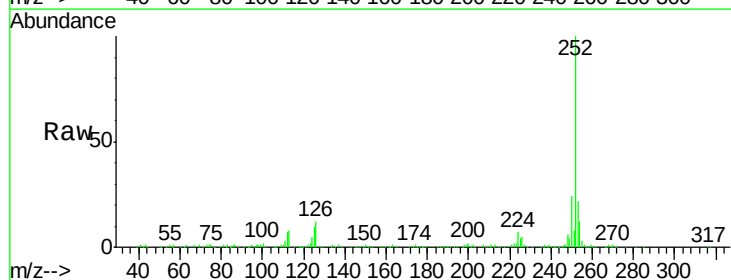
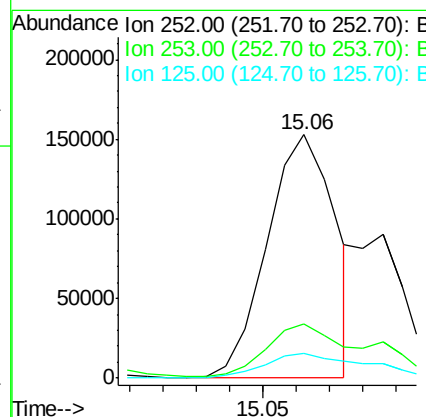
Manual Integrations
APPROVED

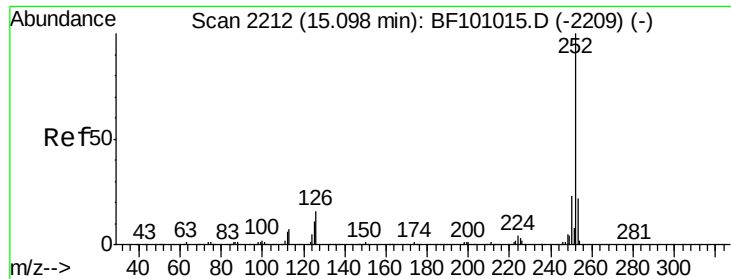
Sohil
12/5/2017 3:23:36 PM



#87
Benzo(b)fluoranthene
Concen: 28.90 ng m
RT: 15.06 min Scan# 2206
Delta R.T. 0.00 min
Lab File: BF101090.D
Acq: 4 Dec 2017 11:48

Tgt Ion:	252	Resp:	217065
Ion Ratio		Lower	Upper
252	100		
253	22.4	17.0	25.6
125	10.2	9.0	13.6





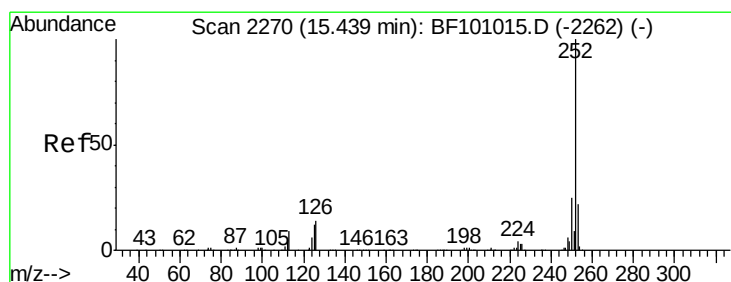
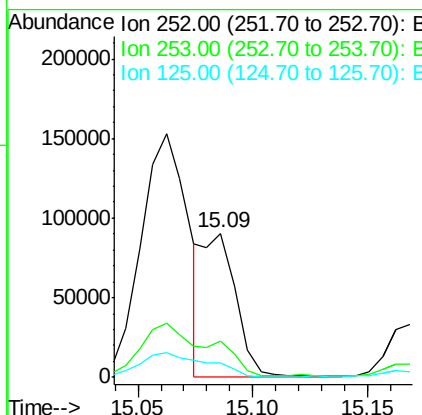
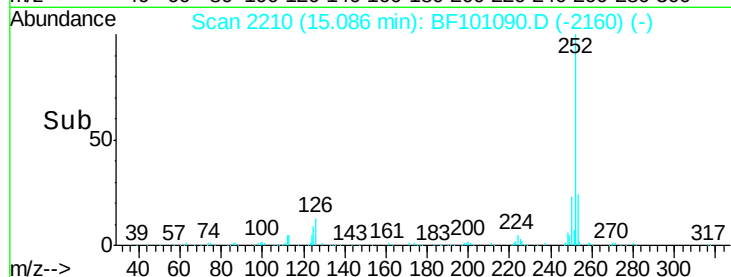
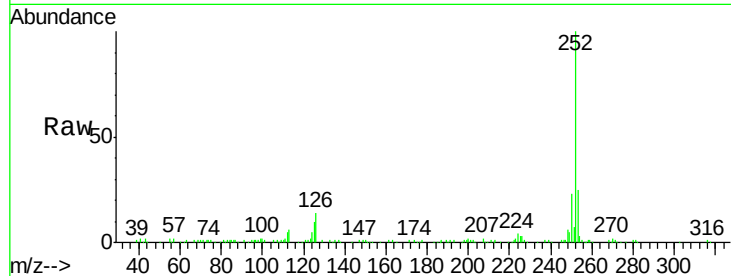
#88
Benzo(k)fluoranthene
Concen: 12.31 ng m
RT: 15.09 min Scan# 2210
Delta R.T. -0.01 min
Lab File: BF101090.D
Acq: 4 Dec 2017 11:48

Instrument :
BNA_F
ClientSampleId :
SB-1(0-2)-20171128

Tot Ion	Ratio	Lower	Upper
252	100		
253	24.9	17.9	26.9
125	9.9	10.2	15.2

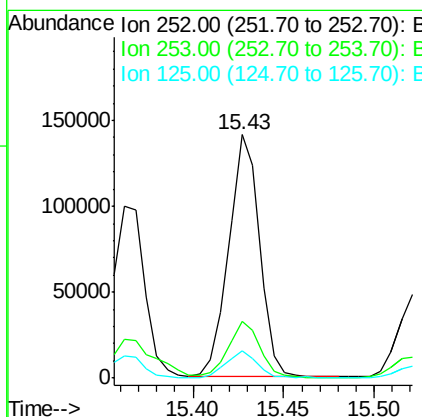
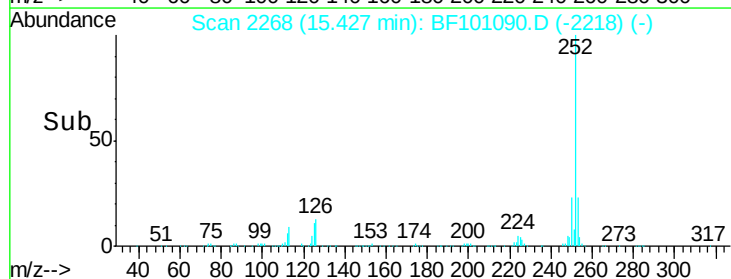
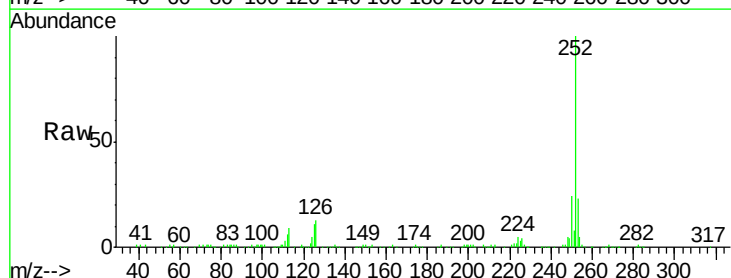
Manual Integrations
APPROVED

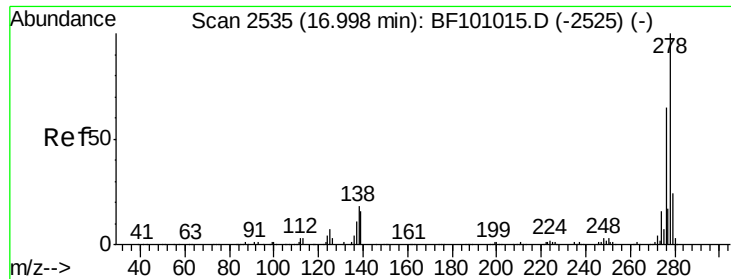
Sohil
12/5/2017 3:23:36 PM



#89
Benzo(a)pyrene
Concen: 24.47 ng
RT: 15.43 min Scan# 2268
Delta R.T. -0.01 min
Lab File: BF101090.D
Acq: 4 Dec 2017 11:48

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.3	17.1	25.7
125	11.0	9.8	14.6





#90

Dibenzo(a,h)anthracene

Concen: 5.80 ng/mL

RT: 16.97 min Scan# 2531

Delta R.T. -0.01 min

Lab File: BF101090.D

Acq: 4 Dec 2017 11:48

Instrument :

BNA_F

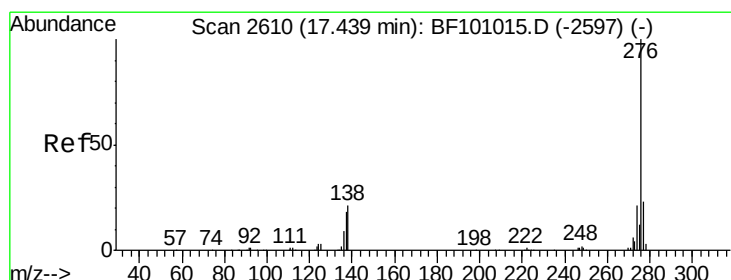
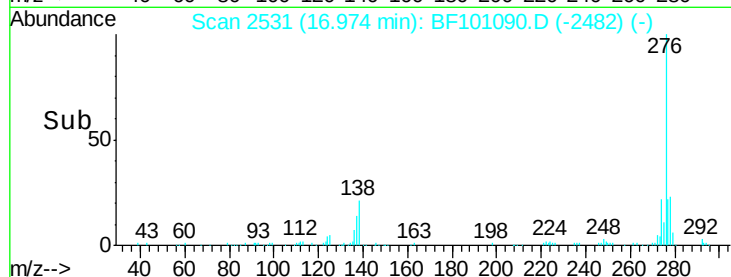
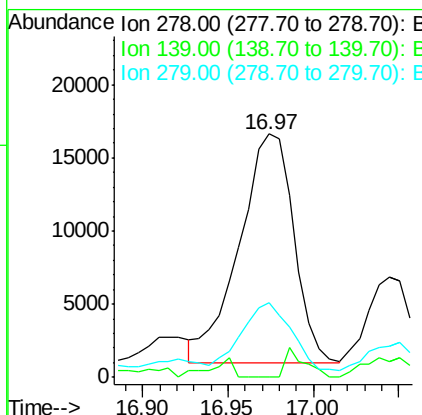
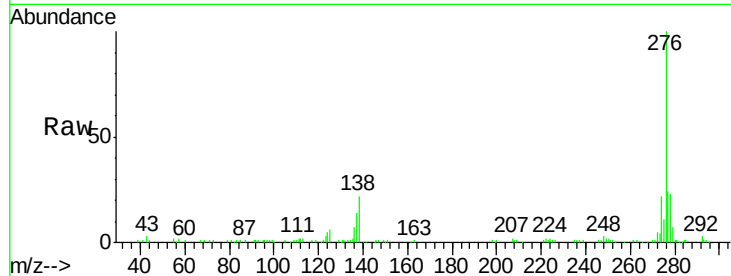
ClientSampleId :

SB-1(0-2)-20171128

Tot Ion:	278	Resp:	34895
Ion Ratio	Lower	Upper	
278	100		
139	0.0	15.9	23.9#
279	30.7	19.0	28.4#

Manual Integrations
APPROVED

Sohil
12/5/2017 3:23:36 PM



#91

Benzo(g,h,i)perylene

Concen: 21.88 ng/mL

RT: 17.42 min Scan# 2607

Delta R.T. -0.01 min

Lab File: BF101090.D

Acq: 4 Dec 2017 11:48

Tgt Ion:	276	Resp:	124090
Ion Ratio	Lower	Upper	
276	100		
277	25.2	17.9	26.9
138	20.1	21.8	32.8#

