

Data Path : Z:\HPCHEM1\BNA F\DATA\BF120417\
 Data File : BF101094.D
 Acq On : 4 Dec 2017 13:35
 Operator : SJ/JU
 Sample : I6620-05
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SB-6(0-2)-20171128

Manual Integrations
 APPROVED

Quant Time: Dec 04 15:58:31 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) 12/5/2017 3:24:15 PM

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.85	152	47405	20.00	ng	0.00
21) Naphthalene-d8	8.13	136	183400	20.00	ng	0.00
38) Acenaphthene-d10	9.89	164	85308	20.00	ng	0.00
63) Phenanthrene-d10	11.37	188	144961	20.00	ng	0.00
75) Chrysene-d12	14.02	240	109807	20.00	ng	0.00
86) Perylene-d12	15.50	264	108172	20.00	ng	0.00

System Monitoring Compounds

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.47	112	275319	95.97	ng	0.00
7) Phenol-d6	6.48	99	324826	93.26	ng	0.00
23) Nitrobenzene-d5	7.41	82	198869	64.68	ng	0.00
41) 2,4,6-Tribromophenol	10.67	330	82702	80.70	ng	0.00
44) 2-Fluorobiphenyl	9.20	172	433772	69.57	ng	0.00
78) Terphenyl-d14	12.96	244	334633	66.66	ng	0.00

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
10) Phenol	6.49	94	11149	2.88	ng	99
48) Acenaphthylene	9.75	152	21169	2.32	ng	99
49) Dimethylphthalate	9.59	163	33791	4.91	ng	98
57) Fluorene	10.43	166	16382	2.56	ng	99
70) Phenanthrene	11.40	178	257801	32.29	ng	97
71) Anthracene	11.45	178	64662	8.00	ng	99
72) Carbazole	11.60	167	24159	3.27	ng	97
74) Fluoranthene	12.59	202	384474	43.45	ng	94
77) Pyrene	12.82	202	345677	45.62	ng	99
80) Benzo(a)anthracene	14.01	228	184741	26.65	ng	98
82) Chrysene	14.04	228	167730	26.05	ng	97
83) Bis(2-ethylhexyl)phthalate	13.98	149	11701	2.46	ng	# 92
85) Indeno(1,2,3-cd)pyrene	16.98	276	93402	16.32	ng	# 88
87) Benzo(b)fluoranthene	15.07	252	231146m	35.68	ng	
88) Benzo(k)fluoranthene	15.09	252	90332m	14.15	ng	
89) Benzo(a)pyrene	15.43	252	163087	27.69	ng	96
90) Dibenzo(a,h)anthracene	16.98	278	23342	4.49	ng	# 70
91) Benzo(g,h,i)perylene	17.43	276	85825	17.54	ng	# 92

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

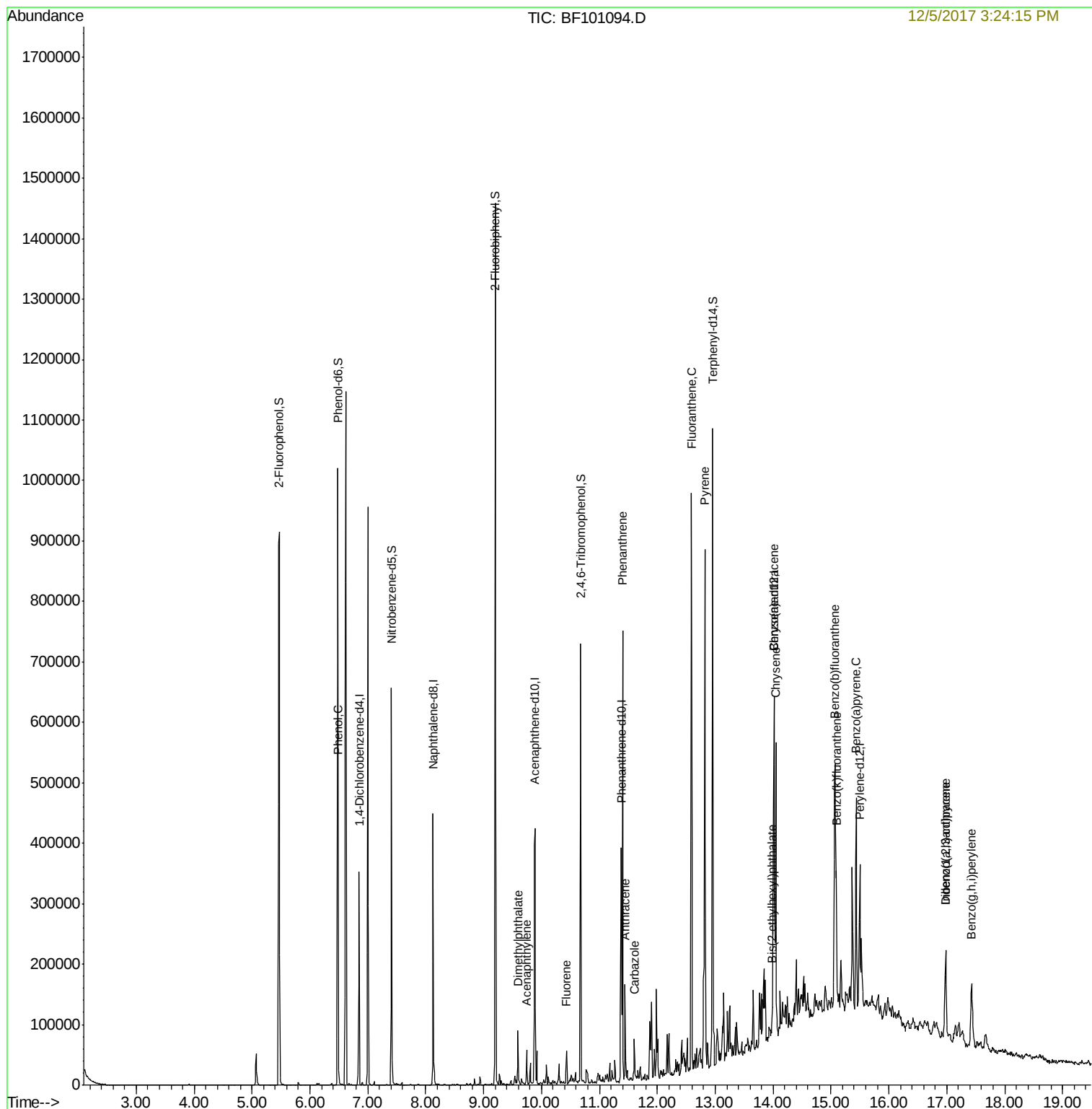
Data Path : Z:\HPCHEM1\BNA F\DATA\BF120417\
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ALS Vial : 10 Sample Multiplier: 1

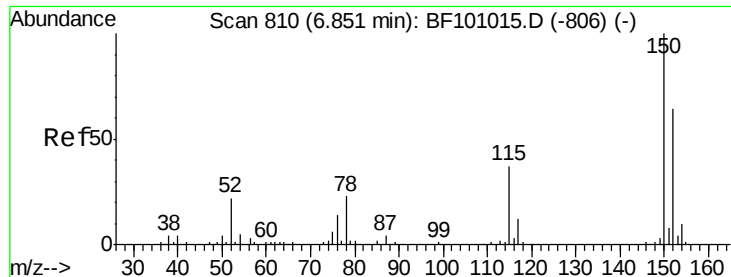
Instrument :
BNA_F
ClientSampleId :
SB-6(0-2)-20171128

Manual Integrations
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Quant Time: Dec 04 15:58:31 2017
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF113017.M
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QLast Update : Mon Dec 04 13:07:49 2017
Response via : Initial Calibration

S0111





#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.85 min Scan# 809

Delta R.T. 0.00 min

Lab File: BF101094.D

Acq: 4 Dec 2017 13:35

Instrument :

BNA_F

ClientSampleId :

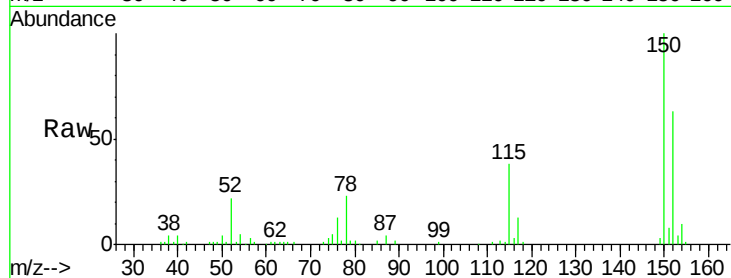
SB-6(0-2)-20171128

Tot Ion:	152	Resp:	47405
Ion Ratio	Lower	Upper	
152	100		
150	159.1	124.6	186.8
115	60.2	50.1	75.1

Manual Integrations
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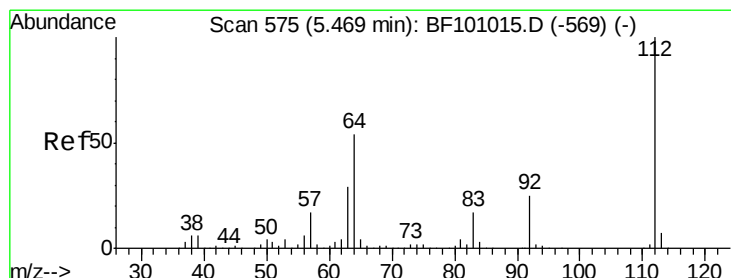
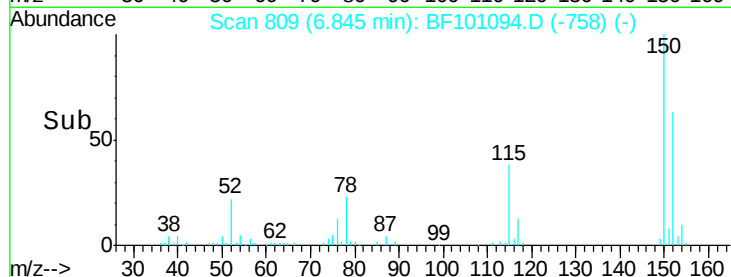
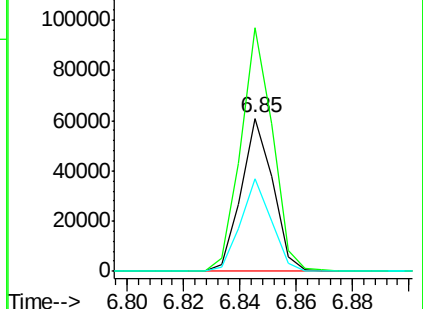
12/5/2017 3:24:15 PM



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: 95.97 ng

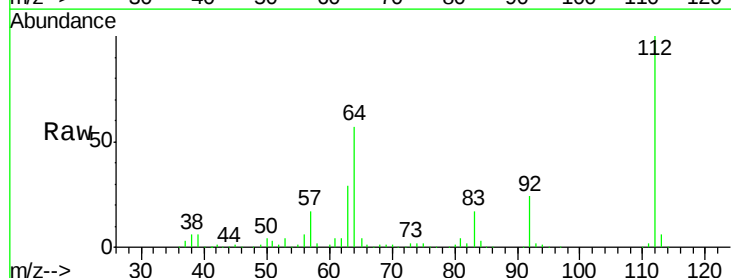
RT: 5.47 min Scan# 575

Delta R.T. 0.01 min

Lab File: BF101094.D

Acq: 4 Dec 2017 13:35

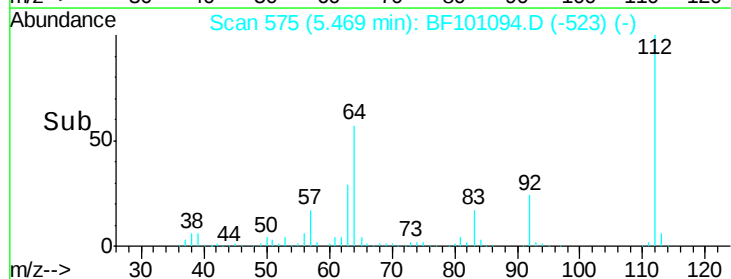
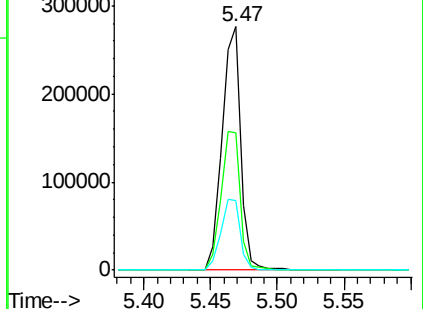
Tgt Ion:	112	Resp:	275319
Ion Ratio	Lower	Upper	
112	100		
64	56.6	47.9	71.9
63	28.6	23.7	35.5

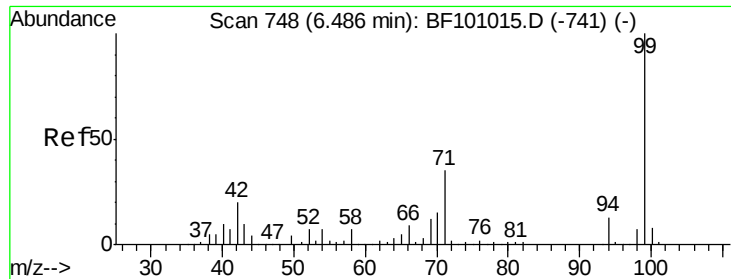


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF1

Ion 63.00 (62.70 to 63.70): BF1





#7

Phenol-d6

Concen: 93.26 ng

RT: 6.48 min Scan# 747

Delta R.T. 0.00 min

Lab File: BF101094.D

Acq: 4 Dec 2017 13:35

Instrument :

BNA_F

ClientSampleId :

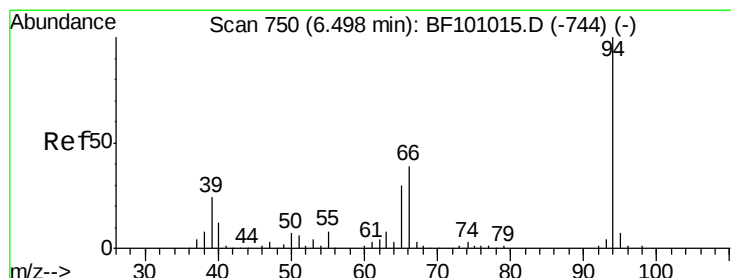
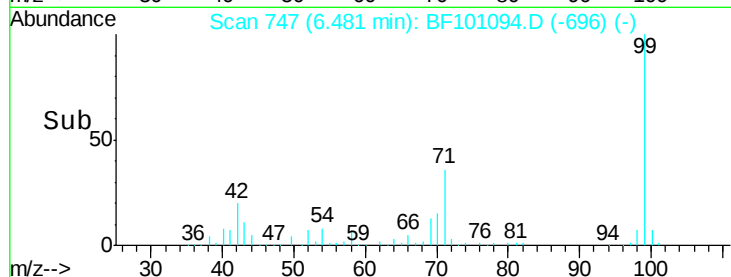
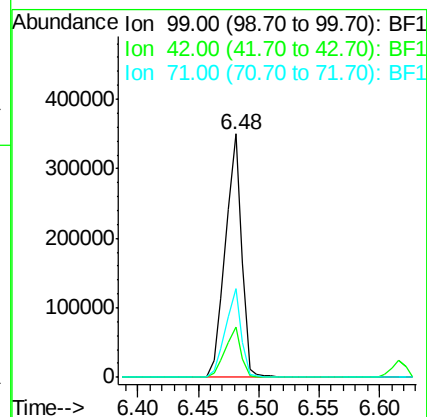
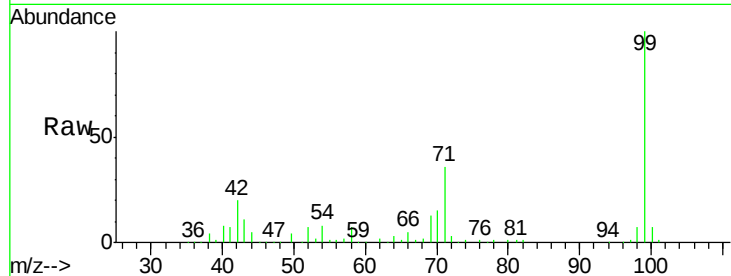
SB-6(0-2)-20171128

Tot Ion:	99	Resp:	324826
Ion Ratio	Lower	Upper	
99	100		
42	20.5	14.5	21.7
71	36.4	25.4	38.0

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#10

Phenol

Concen: 2.88 ng

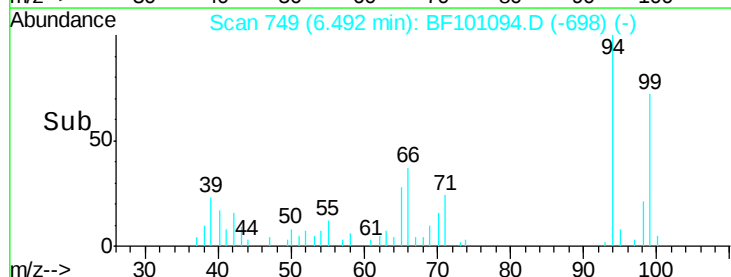
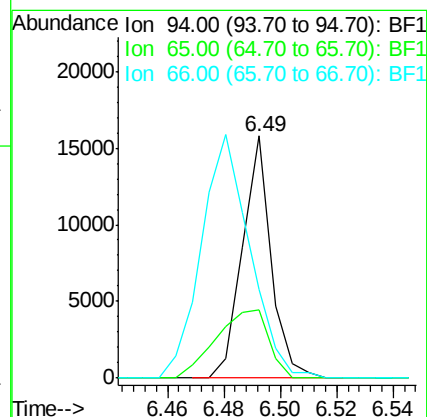
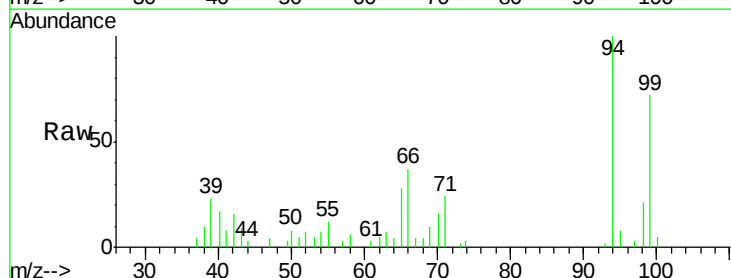
RT: 6.49 min Scan# 749

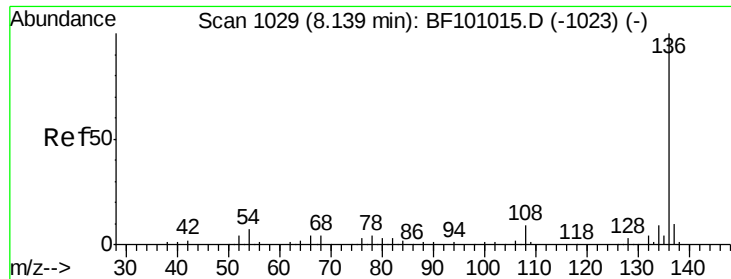
Delta R.T. 0.00 min

Lab File: BF101094.D

Acq: 4 Dec 2017 13:35

Tgt Ion:	94	Resp:	11149
Ion Ratio	Lower	Upper	
94	100		
65	28.3	7.9	47.9
66	36.9	16.2	56.2





#21
Naphthalene-d8
Concen: 20.00 ng
RT: 8.13 min Scan# 1027
Delta R.T. -0.01 min
Lab File: BF101094.D
Acq: 4 Dec 2017 13:35

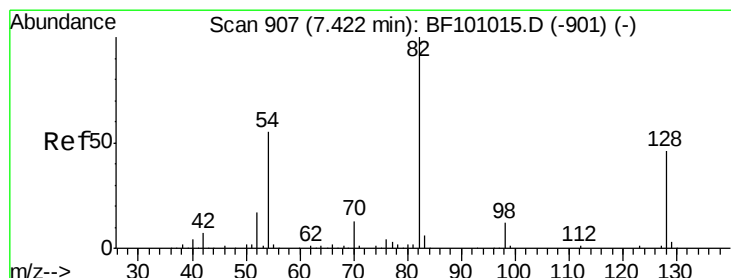
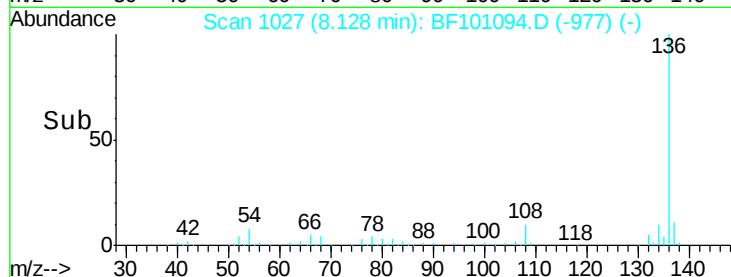
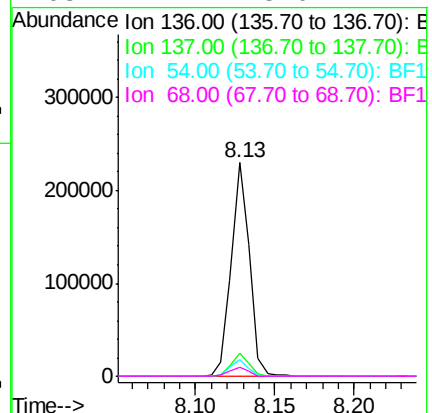
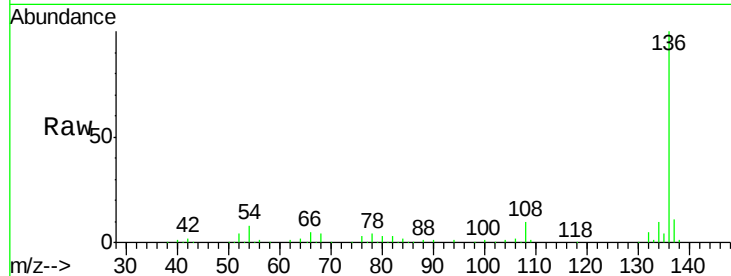
Instrument :
BNA_F
ClientSampleId :
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Tot Ion	Ion	Ratio	Resp	Lower	Upper
136	100				
137	11.0		8.9	13.3	
54	7.6		6.6	9.8	
68	4.4		5.0	7.4	

Manual Integrations
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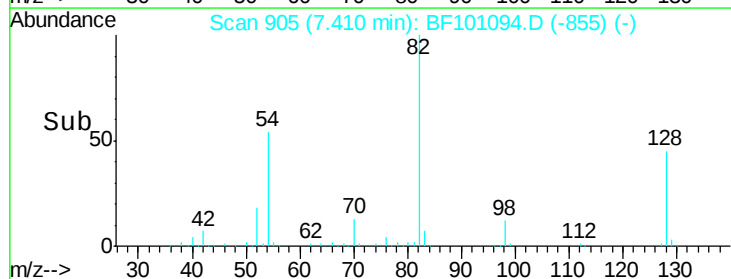
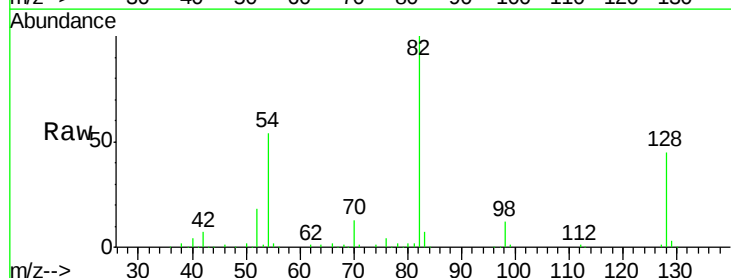
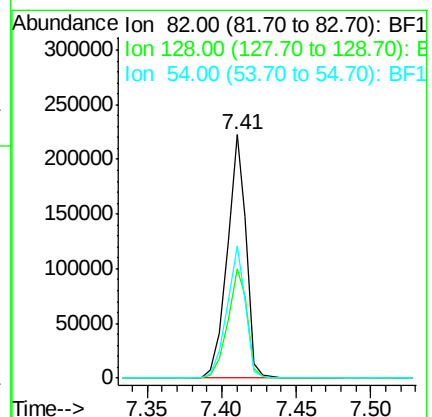
Sonali

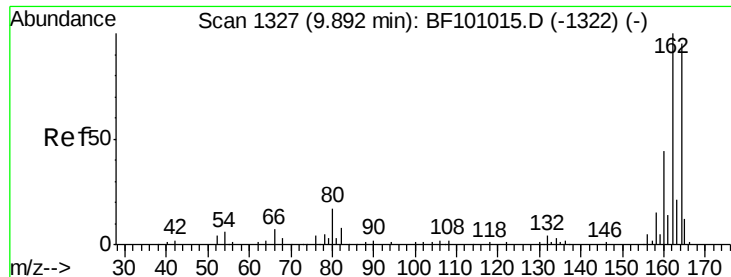
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#23
Nitrobenzene-d5
Concen: 64.68 ng
RT: 7.41 min Scan# 905
Delta R.T. -0.01 min
Lab File: BF101094.D
Acq: 4 Dec 2017 13:35

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
82	100				
128	44.7		36.1	54.1	
54	54.5		41.4	62.2	





#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 9.89 min Scan# 1326
Delta R.T. 0.00 min
Lab File: BF101094.D
Acq: 4 Dec 2017 13:35

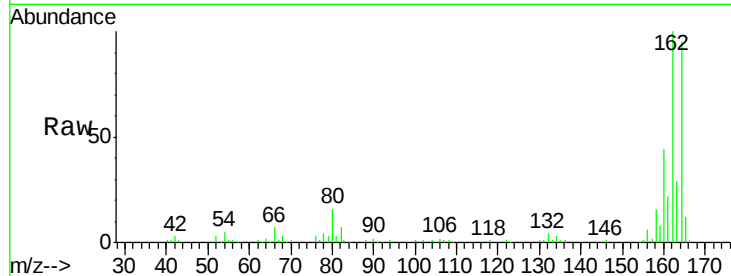
Instrument :
BNA_F
ClientSampleId :
SB-6(0-2)-20171128

Tot Ion	Ratio	Lower	Upper
164	100		
162	105.6	86.1	129.1
160	46.6	38.3	57.5

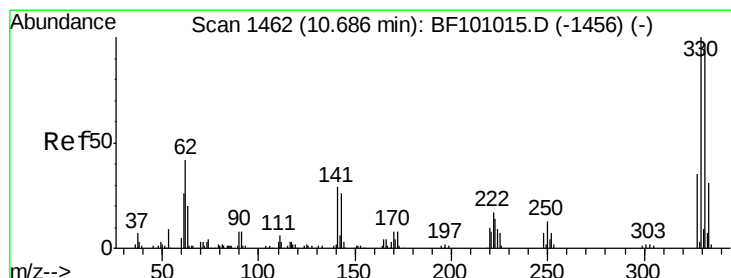
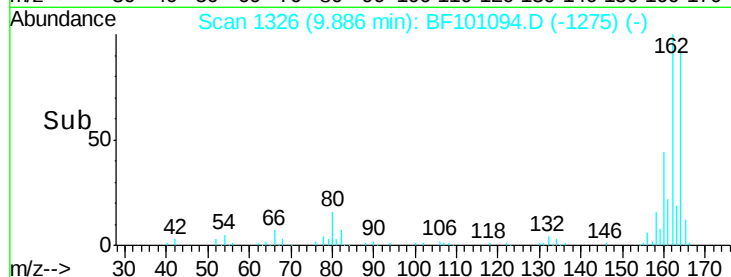
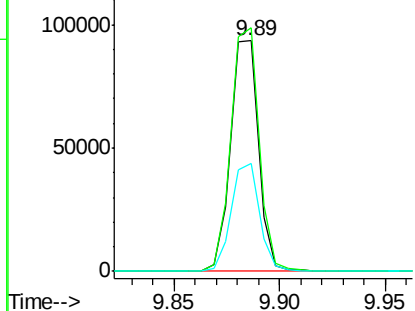
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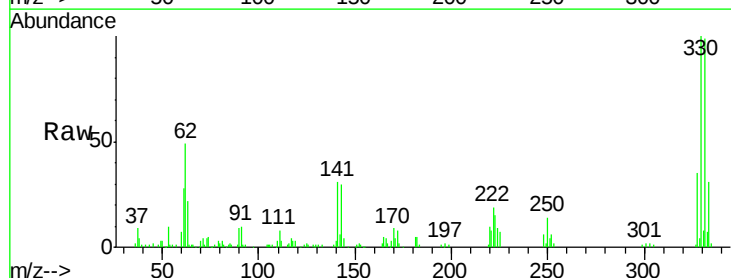


Abundance Ion 164.00 (163.70 to 164.70): E
Ion 162.00 (161.70 to 162.70): E
Ion 160.00 (159.70 to 160.70): E

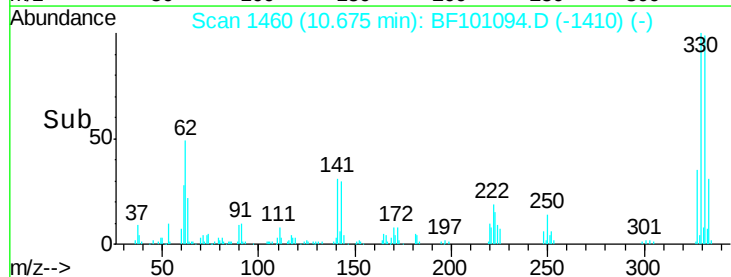
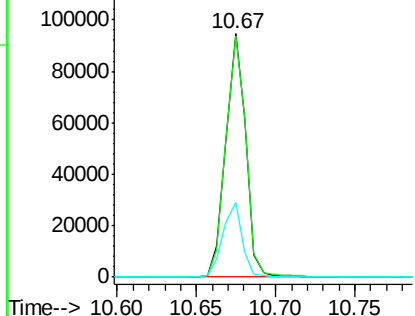


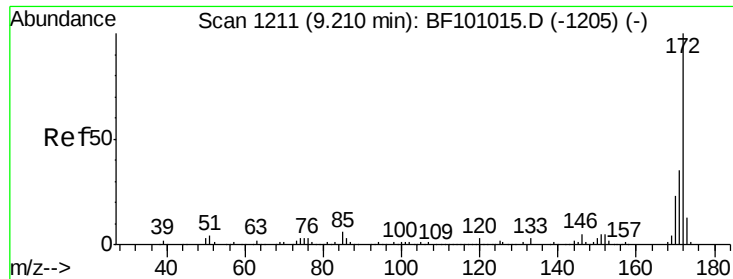
#41
2,4,6-Tribromophenol
Concen: 80.70 ng
RT: 10.67 min Scan# 1460
Delta R.T. -0.01 min
Lab File: BF101094.D
Acq: 4 Dec 2017 13:35

Tgt Ion	Ratio	Lower	Upper
330	100		
332	99.5	77.0	115.6
141	30.2	29.9	44.9



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: 69.57 ng
RT: 9.20 min Scan# 1210
Delta R.T. -0.01 min
Lab File: BF101094.D
Acq: 4 Dec 2017 13:35

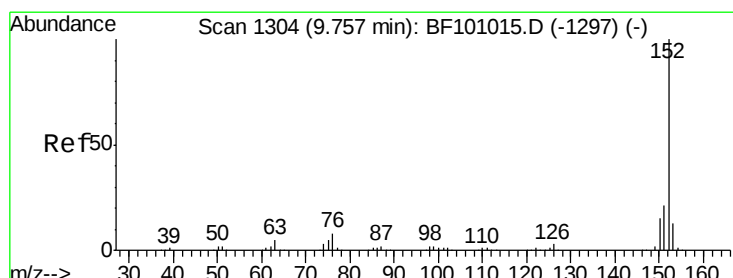
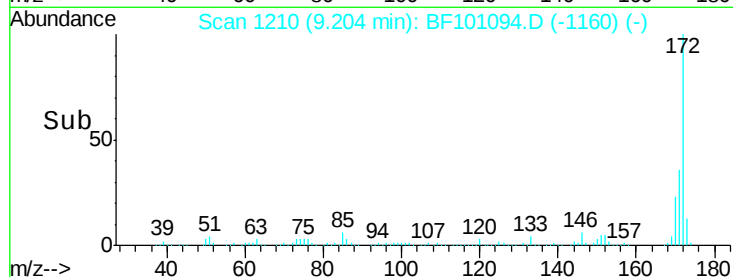
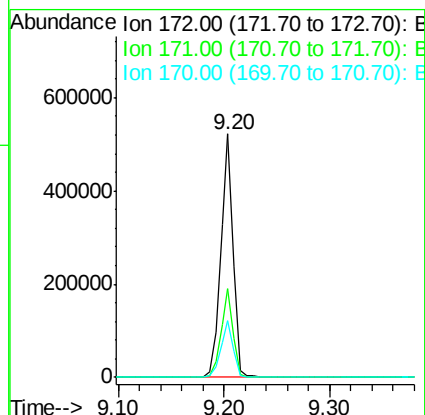
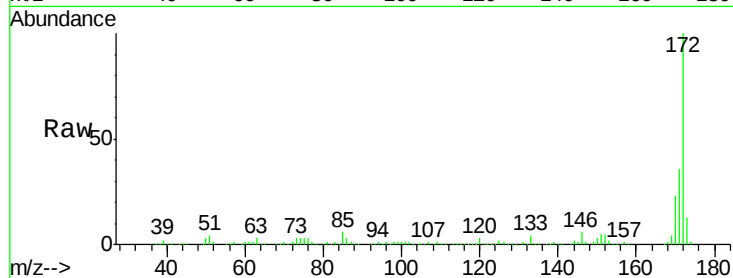
Instrument :
BNA_F
ClientSampleId :
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Tot Ion	Ratio	Lower	Upper
172	100		
171	36.2	29.7	44.5
170	23.3	19.6	29.4

Manual Integrations
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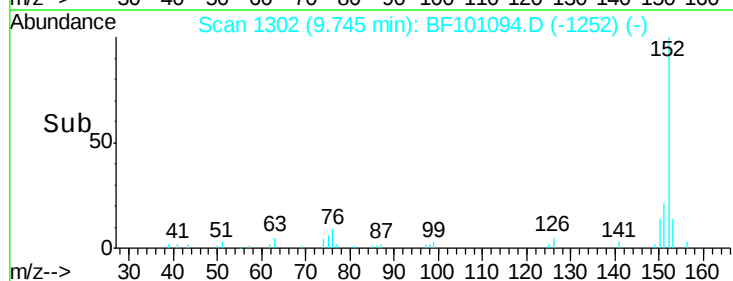
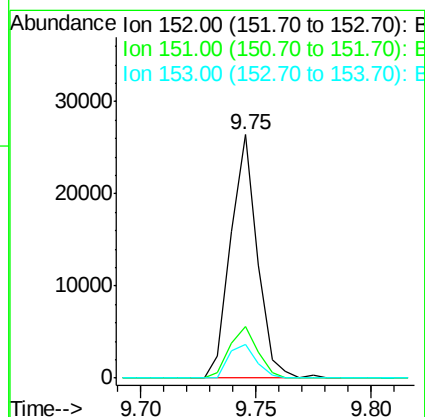
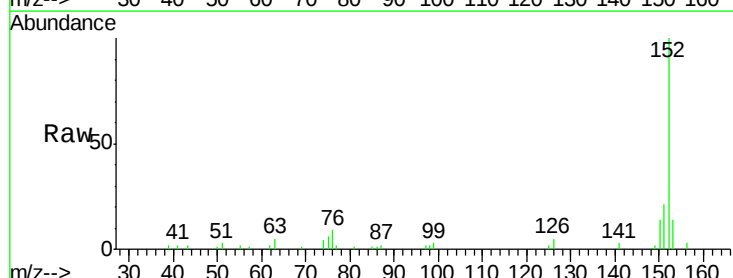
Sonali

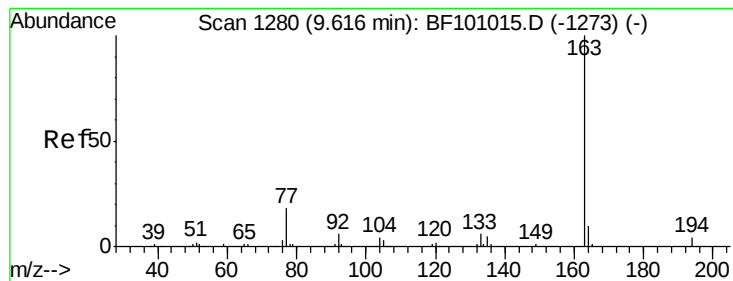
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#48
Acenaphthylene
Concen: 2.32 ng
RT: 9.75 min Scan# 1302
Delta R.T. -0.01 min
Lab File: BF101094.D
Acq: 4 Dec 2017 13:35

Tgt Ion	Ratio	Lower	Upper
152	100		
151	21.1	16.3	24.5
153	14.0	10.7	16.1





#49

Dimethylphthalate

Concen: 4.91 ng

RT: 9.59 min Scan# 1276

Delta R.T. -0.02 min

Lab File: BF101094.D

Acq: 4 Dec 2017 13:35

Instrument :

BNA_F

ClientSampleId :

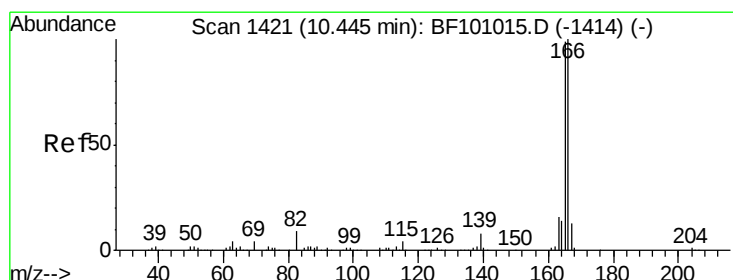
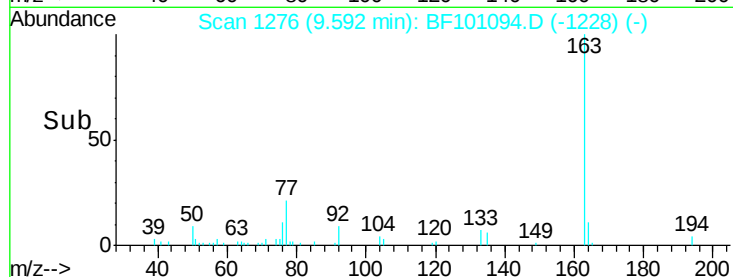
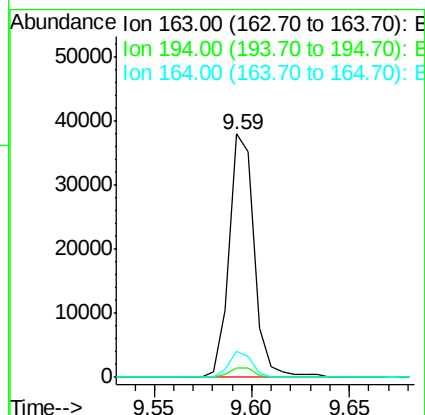
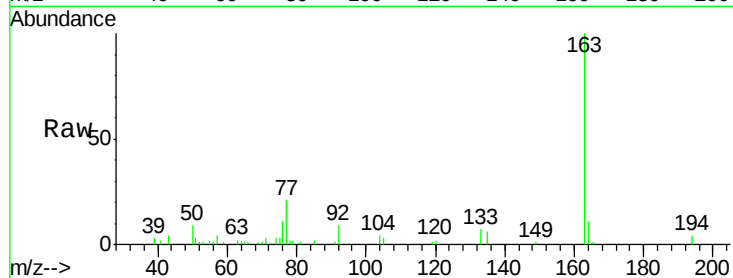
SB-6(0-2)-20171128

Tot Ion:	163	Resp:	33791
Ion Ratio	Lower	Upper	
163	100		
194	3.9	2.7	4.1
164	10.9	8.2	12.2

Manual Integrations
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#57

Fluorene

Concen: 2.56 ng

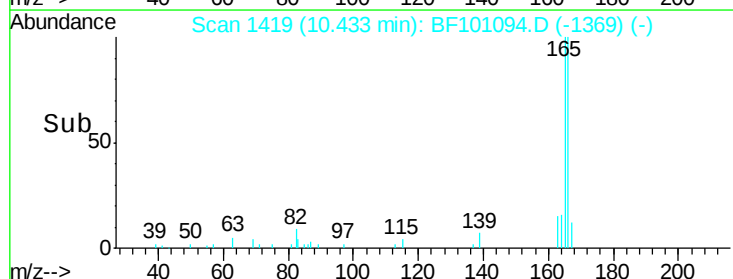
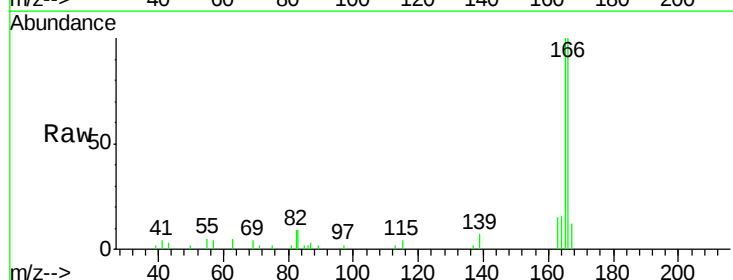
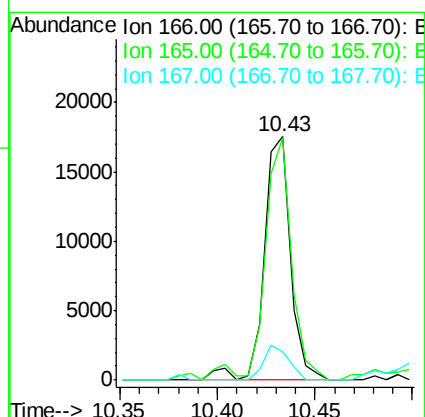
RT: 10.43 min Scan# 1419

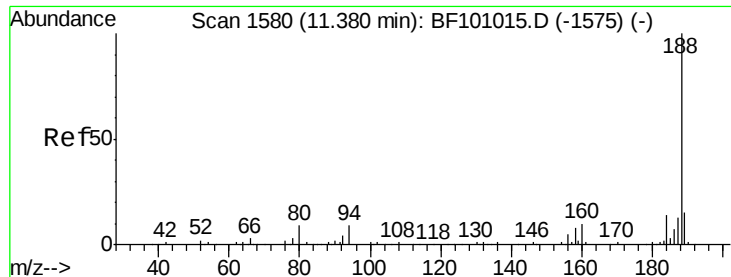
Delta R.T. -0.01 min

Lab File: BF101094.D

Acq: 4 Dec 2017 13:35

Tgt Ion:	166	Resp:	16382
Ion Ratio	Lower	Upper	
166	100		
165	99.8	79.8	119.8
167	11.6	10.6	16.0





#63

Phenanthrene-d10

Concen: 20.00 ng

RT: 11.37 min Scan# 1579

Delta R.T. 0.00 min

Lab File: BF101094.D

Acq: 4 Dec 2017 13:35

Instrument :

BNA_F

ClientSampleId :

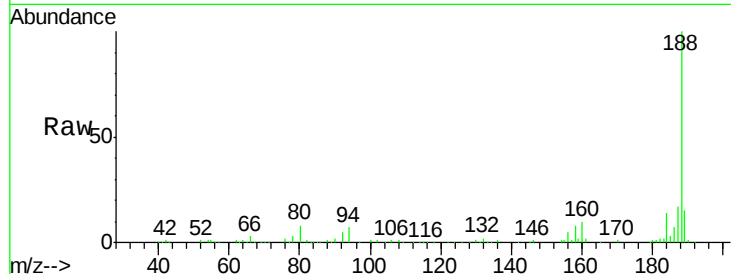
SB-6(0-2)-20171128

Tot Ion:	188	Resp:	144961
Ion Ratio	Lower	Upper	
188	100		
94	7.4	8.5	12.7#
80	8.4	9.2	13.8#

Manual Integrations
APPROVED

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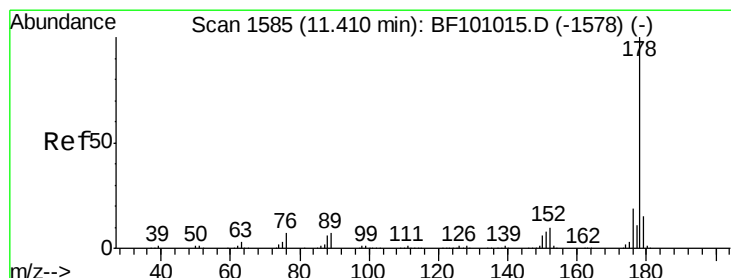
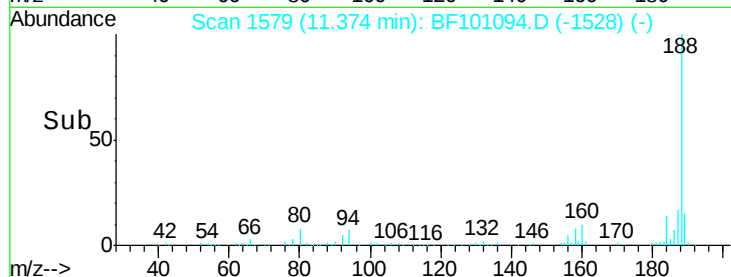
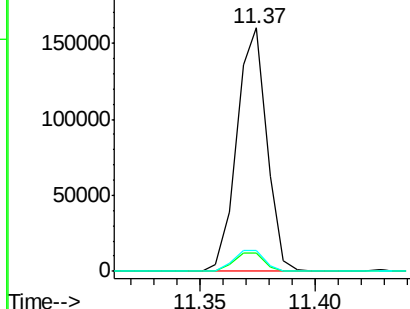
12/5/2017 3:24:15 PM



Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF1

Ion 80.00 (79.70 to 80.70): BF1



#70

Phenanthrene

Concen: 32.29 ng

RT: 11.40 min Scan# 1583

Delta R.T. -0.01 min

Lab File: BF101094.D

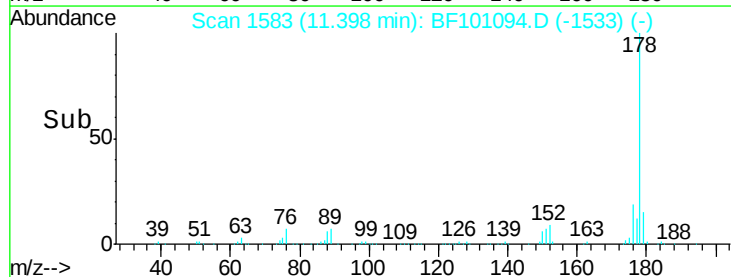
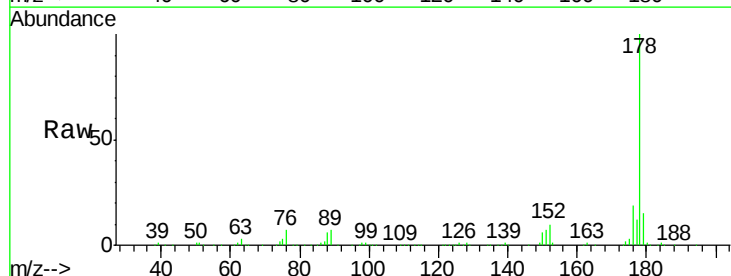
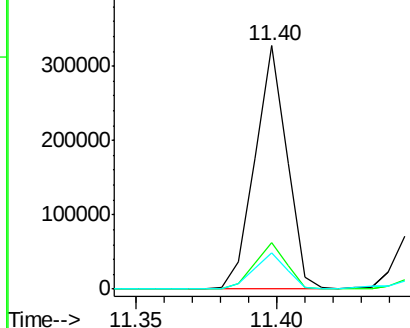
Acq: 4 Dec 2017 13:35

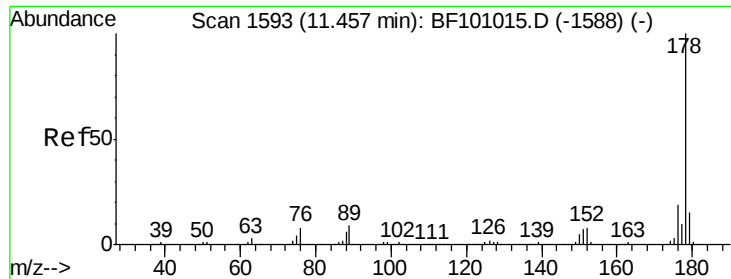
Tgt Ion:	178	Resp:	257801
Ion Ratio	Lower	Upper	
178	100		
176	18.9	15.8	23.8
179	14.8	13.0	19.6

Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#71
 Anthracene
 Concen: 8.00 ng
 RT: 11.45 min Scan# 1591
 Delta R.T. -0.01 min
 Lab File: BF101094.D
 Acq: 4 Dec 2017 13:35

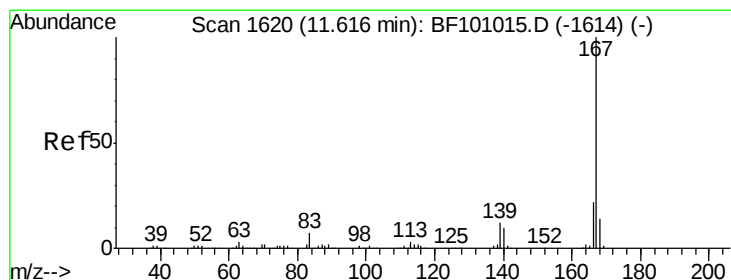
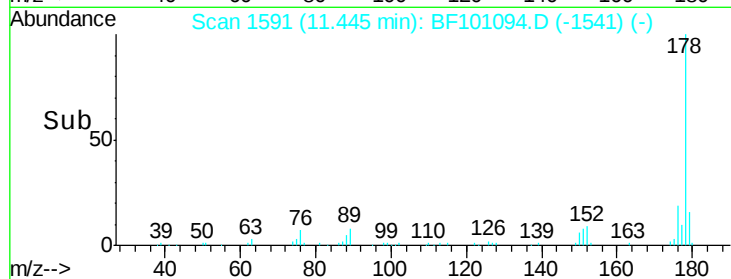
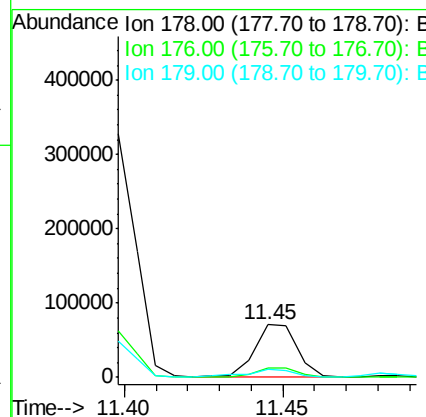
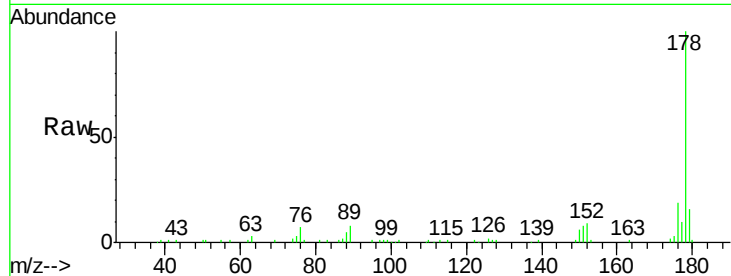
Instrument :
 BNA_F
 ClientSampleId :
 SB-6(0-2)-20171128

Tot Ion	Ratio	Lower	Upper
178	100		
176	18.9	15.4	23.2
179	16.2	12.6	19.0

Manual Integrations
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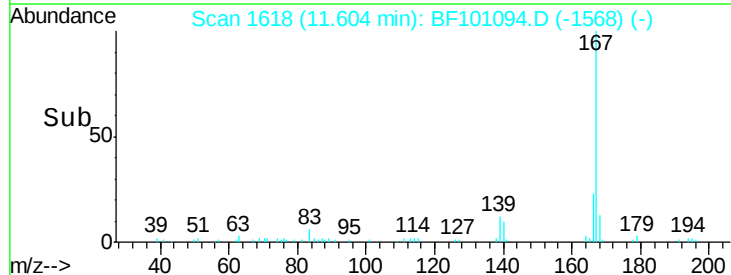
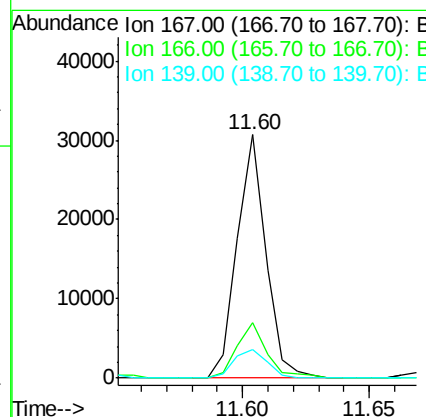
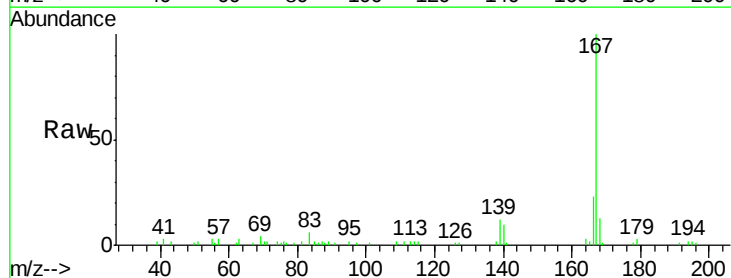
Sonali

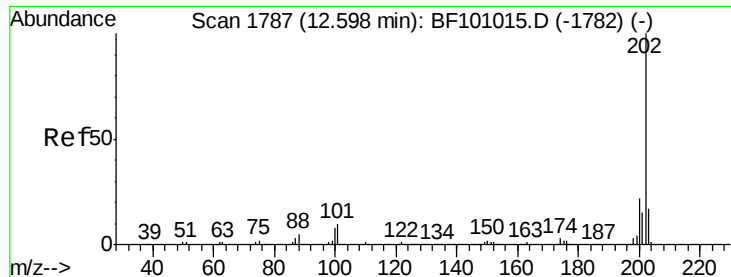
12/5/2017 3:24:15 PM



#72
 Carbazole
 Concen: 3.27 ng
 RT: 11.60 min Scan# 1618
 Delta R.T. -0.01 min
 Lab File: BF101094.D
 Acq: 4 Dec 2017 13:35

Tgt Ion	Ratio	Lower	Upper
167	100		
166	22.7	17.6	26.4
139	11.7	10.9	16.3





#74

Fluoranthene

Concen: 43.45 ng

RT: 12.59 min Scan# 1786

Delta R.T. 0.00 min

Lab File: BF101094.D

Acq: 4 Dec 2017 13:35

Instrument :

BNA_F

ClientSampleId :

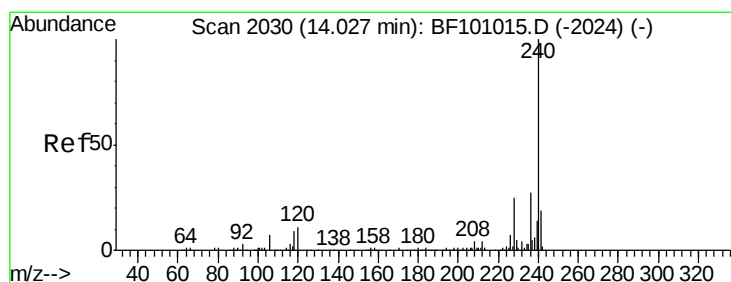
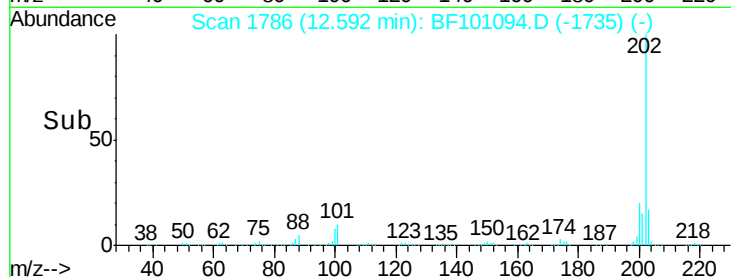
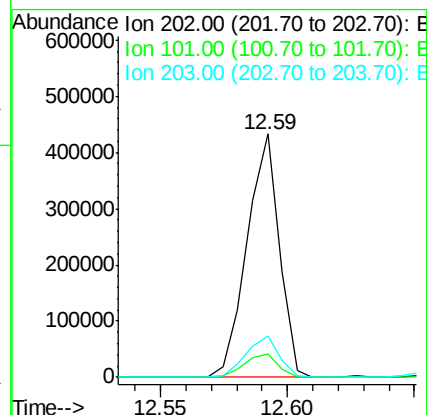
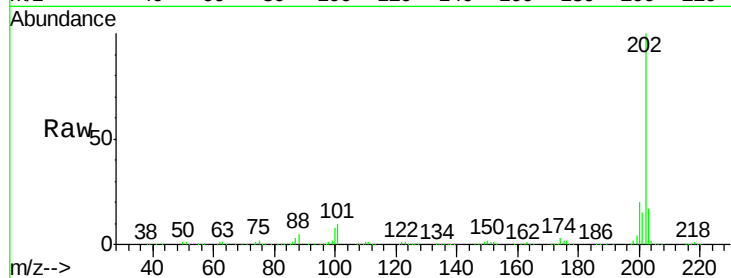
SB-6(0-2)-20171128

Tot Ion	Ion	Ratio	Resp	Lower	Upper
202	100		384474		
101	9.7	0.0	34.1		
203	17.0	0.0	38.1		

Manual Integrations
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Sonali

12/5/2017 3:24:15 PM



#75

Chrysene-d12

Concen: 20.00 ng

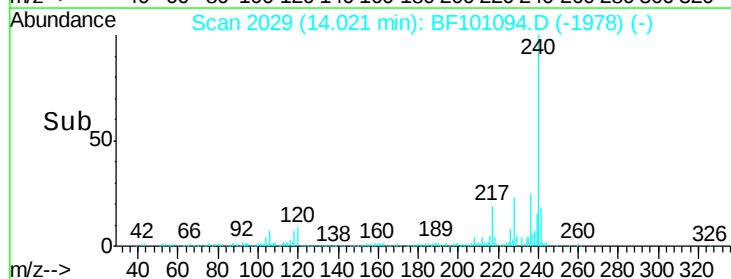
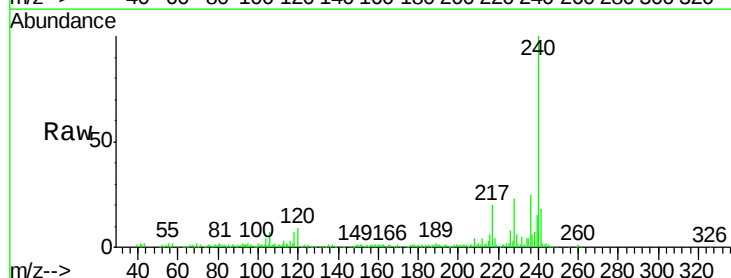
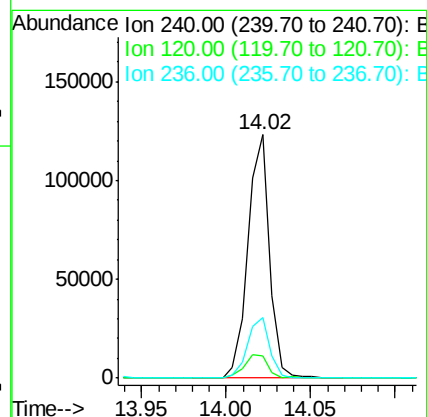
RT: 14.02 min Scan# 2029

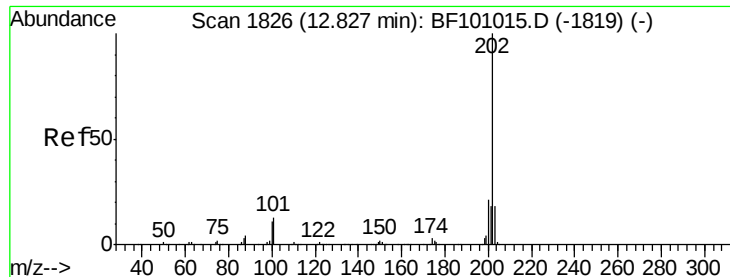
Delta R.T. 0.00 min

Lab File: BF101094.D

Acq: 4 Dec 2017 13:35

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
240	100		109807		
120	9.3	9.5	14.3#		
236	24.9	20.7	31.1		





#77

Pvrene

Concen: 45.62 ng

RT: 12.82 min Scan# 1825

Delta R.T. 0.00 min

Lab File: BF101094.D

Acq: 4 Dec 2017 13:35

Instrument :

BNA_F

ClientSampleId :

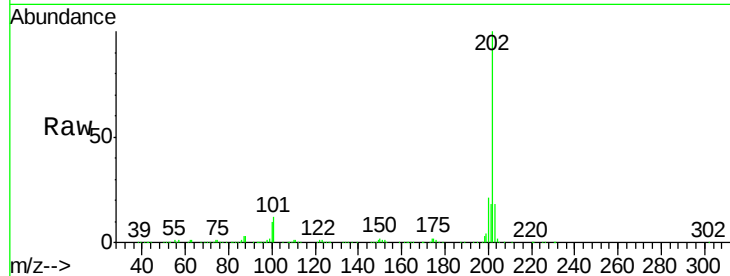
SB-6(0-2)-20171128

Tot Ion:	202	Resp:	345677
Ion Ratio		Lower	Upper
202	100		
200	21.1	17.4	26.2
203	17.5	14.3	21.5

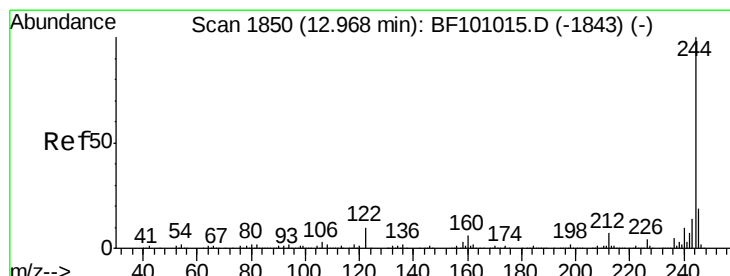
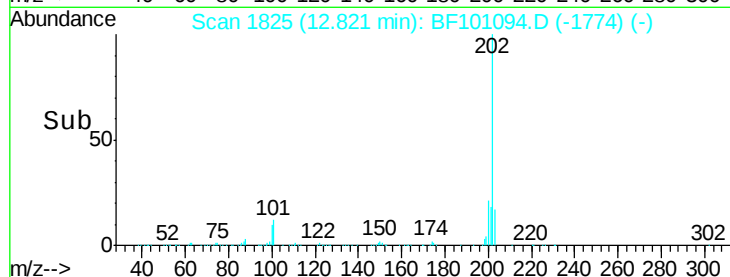
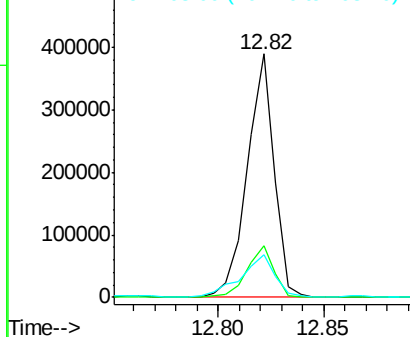
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Abundance Ion 202.00 (201.70 to 202.70): E
Ion 200.00 (199.70 to 200.70): E
Ion 203.00 (202.70 to 203.70): E



#78

Terphenyl-d14

Concen: 66.66 ng

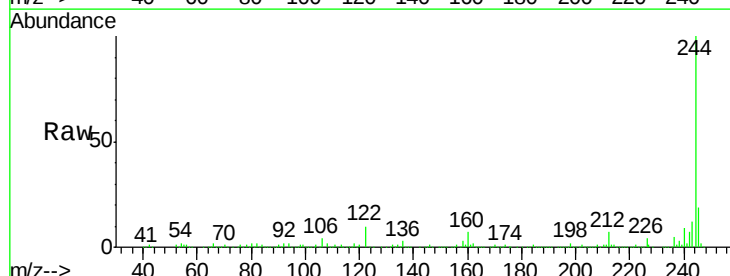
RT: 12.96 min Scan# 1848

Delta R.T. -0.01 min

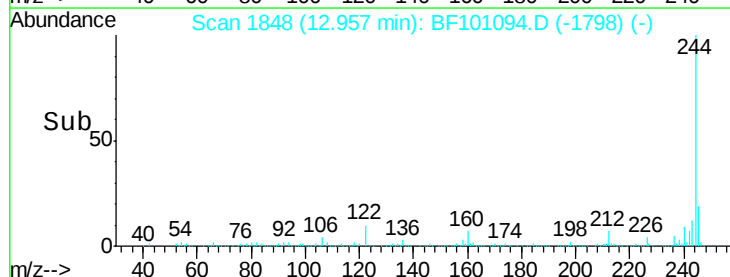
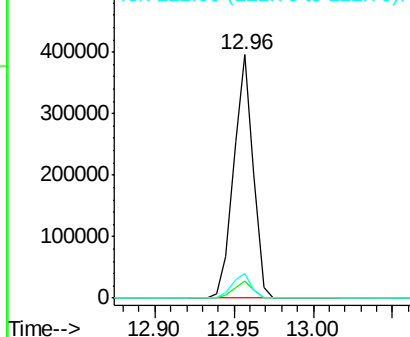
Lab File: BF101094.D

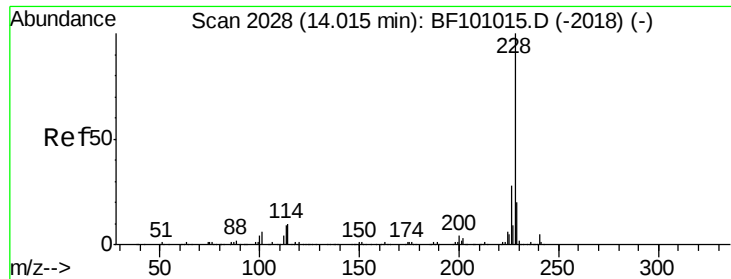
Acq: 4 Dec 2017 13:35

Tgt Ion:	244	Resp:	334633
Ion Ratio		Lower	Upper
244	100		
212	7.2	5.4	8.0
122	10.2	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: 26.65 ng
RT: 14.01 min Scan# 2027
Delta R.T. 0.00 min
Lab File: BF101094.D
Acq: 4 Dec 2017 13:35

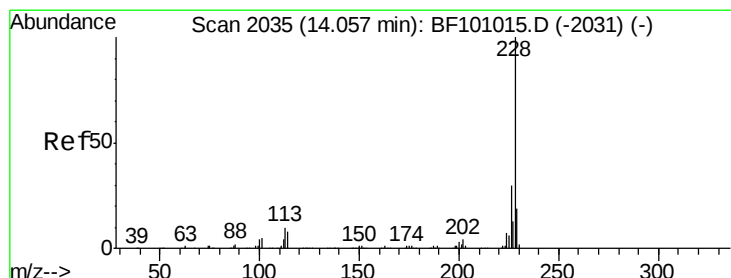
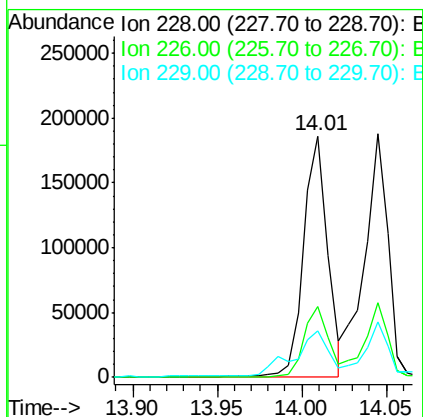
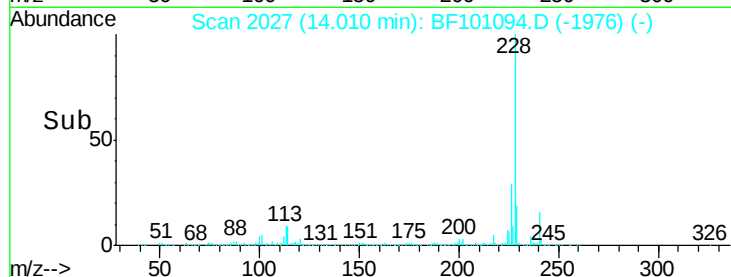
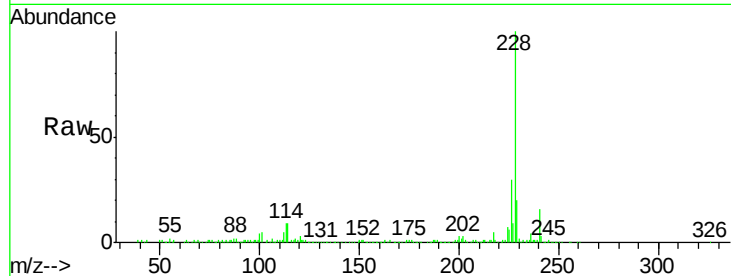
Instrument :
BNA_F
ClientSampleId :
SB-6(0-2)-20171128

Tot Ion:	228	Resp:	184741
Ion Ratio	Lower	Upper	
228	100		
226	29.5	22.6	33.8
229	19.5	15.8	23.6

Manual Integrations
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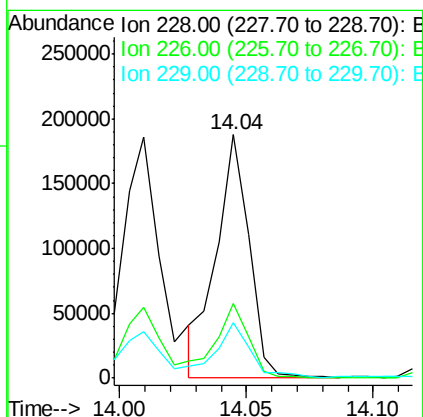
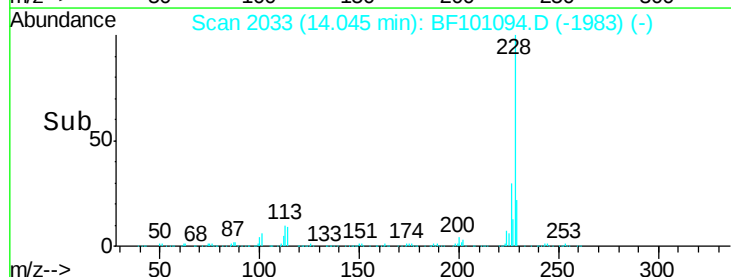
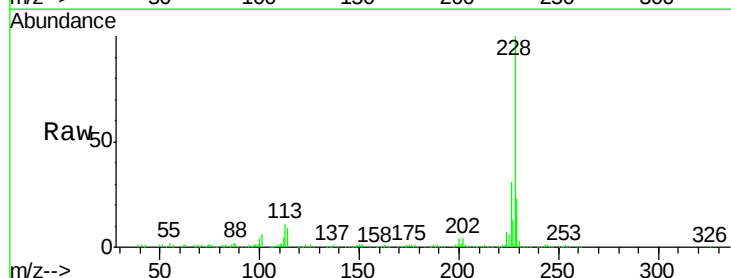
Sonali

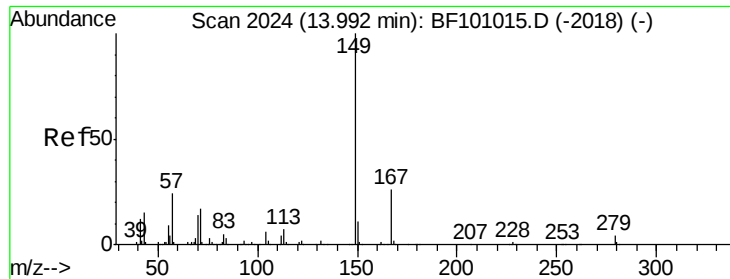
12/5/2017 3:24:15 PM



#82
Chrysene
Concen: 26.05 ng
RT: 14.04 min Scan# 2033
Delta R.T. -0.01 min
Lab File: BF101094.D
Acq: 4 Dec 2017 13:35

Tgt Ion:	228	Resp:	167730
Ion Ratio	Lower	Upper	
228	100		
226	30.7	25.0	37.6
229	22.7	16.2	24.4





#83
Bis(2-ethylhexyl)phthalate
Concen: 2.46 ng
RT: 13.98 min Scan# 2022
Delta R.T. -0.01 min
Lab File: BF101094.D
Acq: 4 Dec 2017 13:35

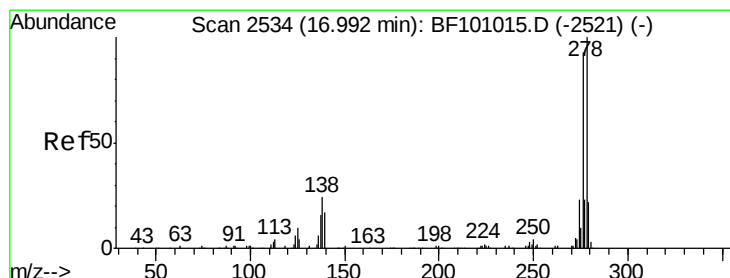
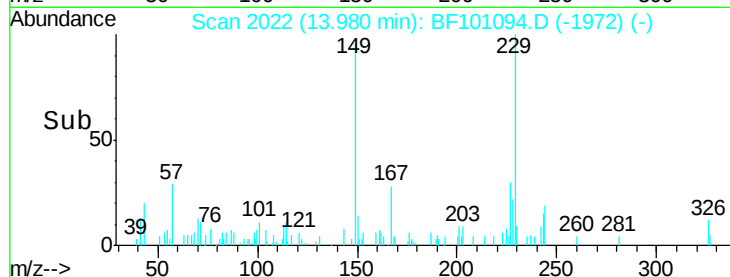
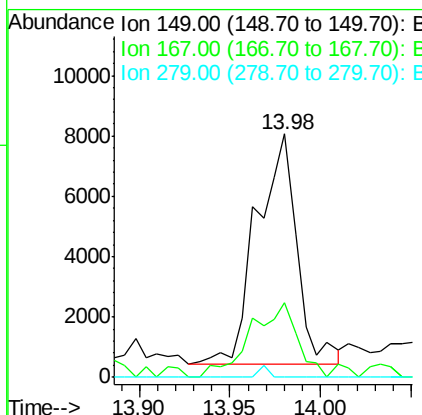
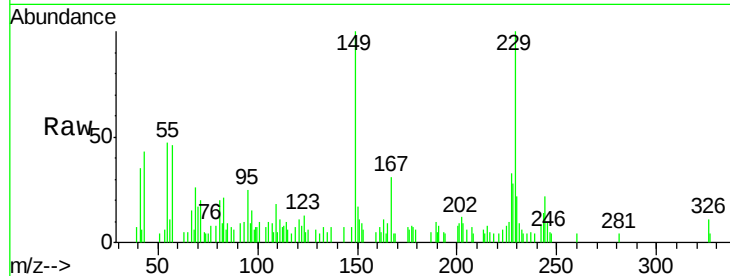
Instrument :
BNA_F
ClientSampleId :
SB-6(0-2)-20171128

Tot Ion	Ratio	Lower	Upper
149	100		
167	30.7	21.3	31.9
279	0.0	3.0	4.4

Manual Integrations
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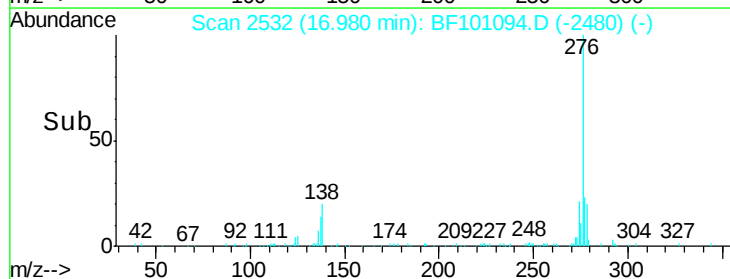
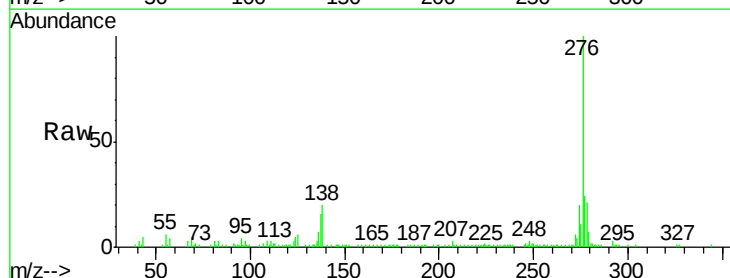
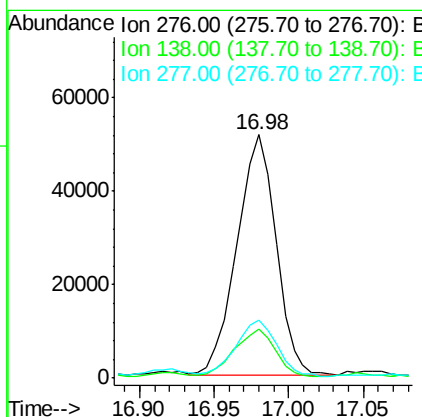
Sonali

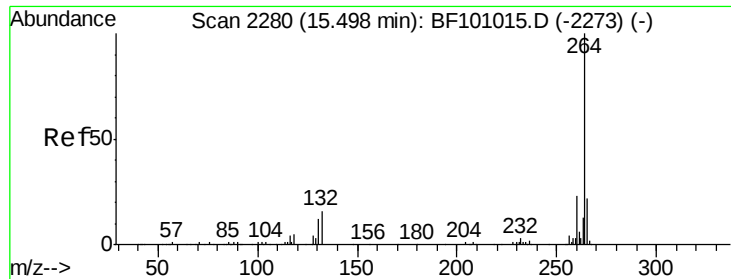
12/5/2017 3:24:15 PM



#85
Indeno(1,2,3-cd)pyrene
Concen: 16.32 ng
RT: 16.98 min Scan# 2532
Delta R.T. 0.01 min
Lab File: BF101094.D
Acq: 4 Dec 2017 13:35

Tgt Ion	Ratio	Lower	Upper
276	100		
138	20.3	25.0	37.6
277	24.2	20.1	30.1





#86
Pervlene-d12
Concen: 20.00 ng
RT: 15.50 min Scan# 2280
Delta R.T. 0.01 min
Lab File: BF101094.D
Acq: 4 Dec 2017 13:35

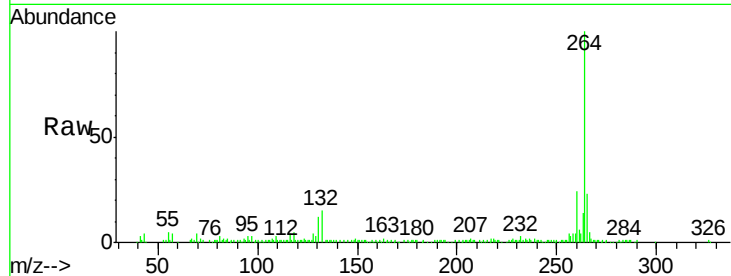
Instrument :
BNA_F
ClientSampleId :
SB-6(0-2)-20171128

Tot Ion:	264	Resp:	108172
Ion Ratio		Lower	Upper
264	100		
260	23.9	19.2	28.8
265	23.3	17.5	26.3

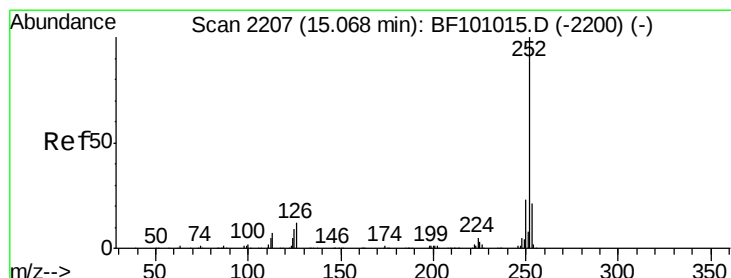
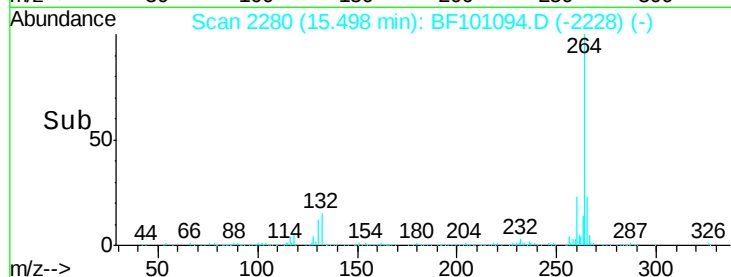
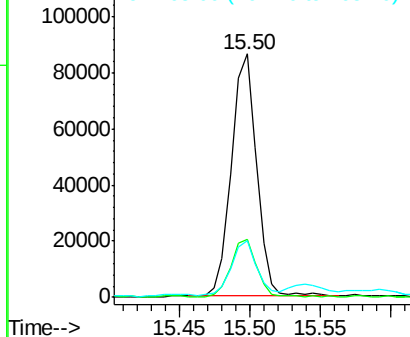
Manual Integrations
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12/5/2017 3:24:15 PM

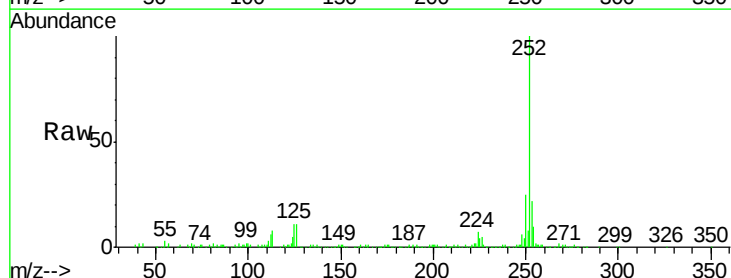


Abundance Ion 264.00 (263.70 to 264.70): E
Ion 260.00 (259.70 to 260.70): E
Ion 265.00 (264.70 to 265.70): E

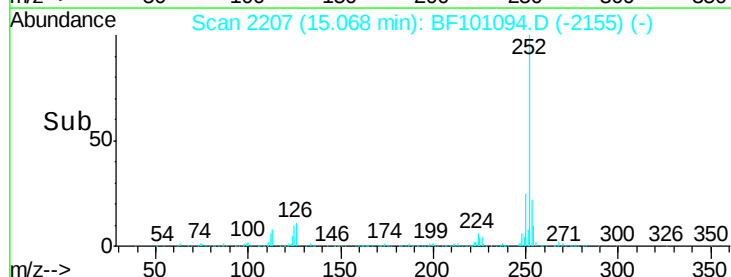
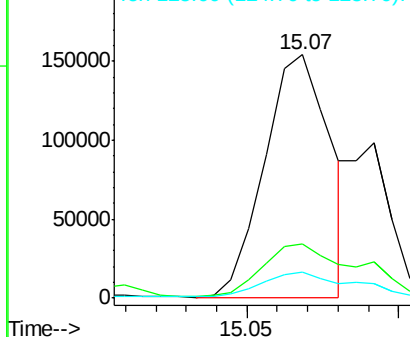


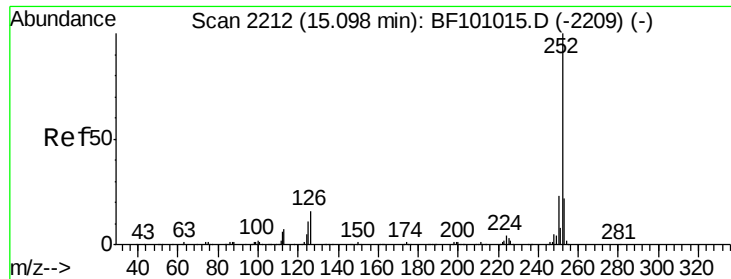
#87
Benzo(b)fluoranthene
Concen: 35.68 ng m
RT: 15.07 min Scan# 2207
Delta R.T. 0.01 min
Lab File: BF101094.D
Acq: 4 Dec 2017 13:35

Tgt Ion:	252	Resp:	231146
Ion Ratio		Lower	Upper
252	100		
253	22.2	17.0	25.6
125	10.7	9.0	13.6



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





#88
Benzo(k)fluoranthene
Concen: 14.15 ng m
RT: 15.09 min Scan# 2211
Delta R.T. 0.00 min
Lab File: BF101094.D
Acq: 4 Dec 2017 13:35

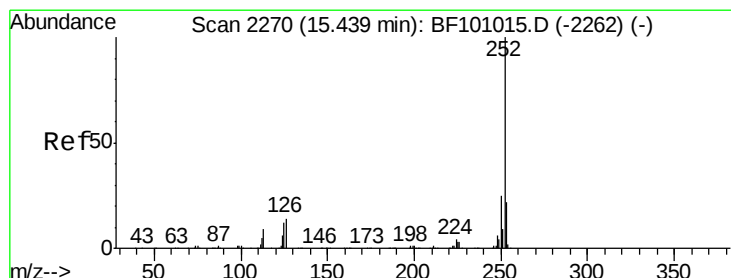
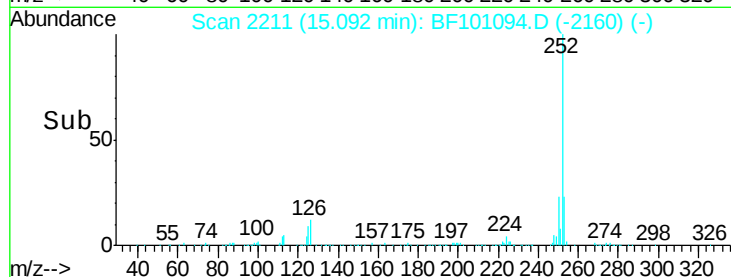
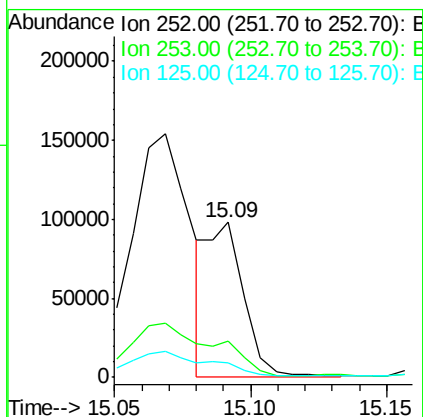
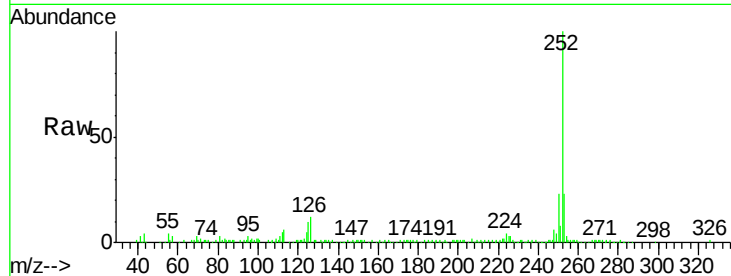
Instrument :
BNA_F
ClientSampleId :
SB-6(0-2)-20171128

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.4	17.9	26.9
125	9.7	10.2	15.2

Manual Integrations
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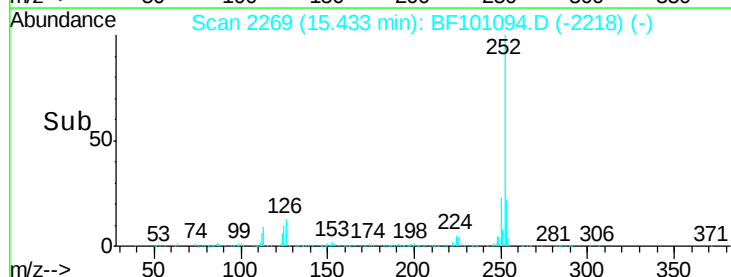
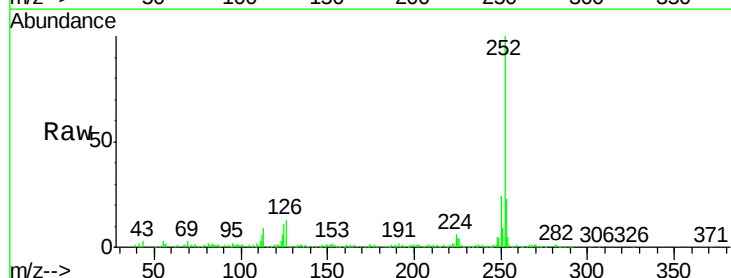
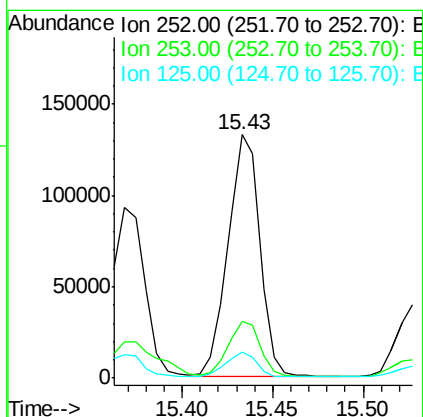
Sonali

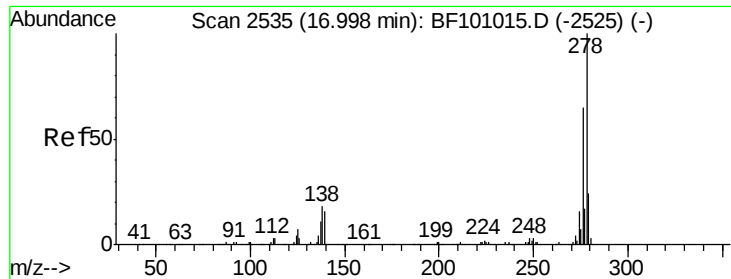
12/5/2017 3:24:15 PM



#89
Benzo(a)pyrene
Concen: 27.69 ng
RT: 15.43 min Scan# 2269
Delta R.T. 0.00 min
Lab File: BF101094.D
Acq: 4 Dec 2017 13:35

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.3	17.1	25.7
125	10.6	9.8	14.6





#90

Dibenzo(a,h)anthracene

Concen: 4.49 ng

RT: 16.98 min Scan# 2532

Delta R.T. -0.01 min

Lab File: BF101094.D

Acq: 4 Dec 2017 13:35

Instrument :

BNA_F

ClientSampleId :

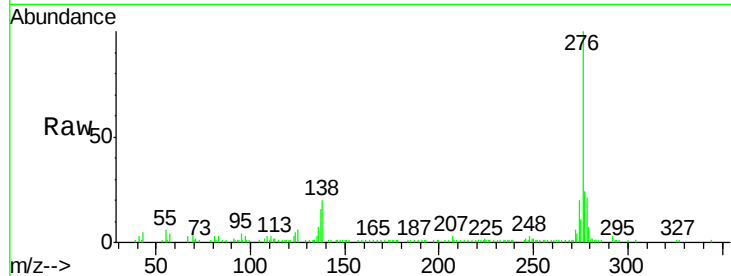
SB-6(0-2)-20171128

Tot Ion:	278	Resp:	23342
Ion Ratio	Lower	Upper	
278	100		
139	0.0	15.9	23.9#
279	32.5	19.0	28.4#

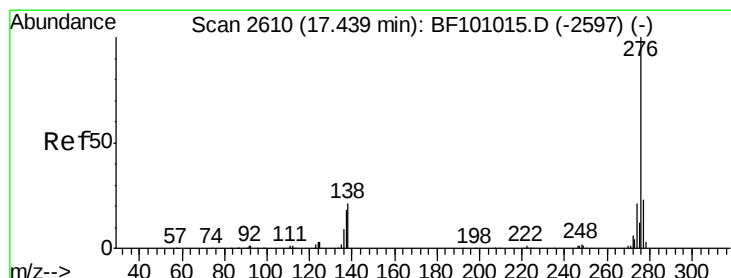
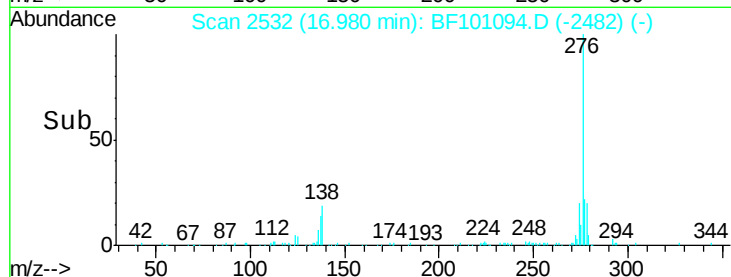
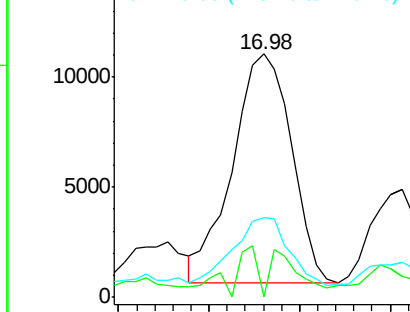
Manual Integrations
APPROVED

Sonali

12/5/2017 3:24:15 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: 17.54 ng

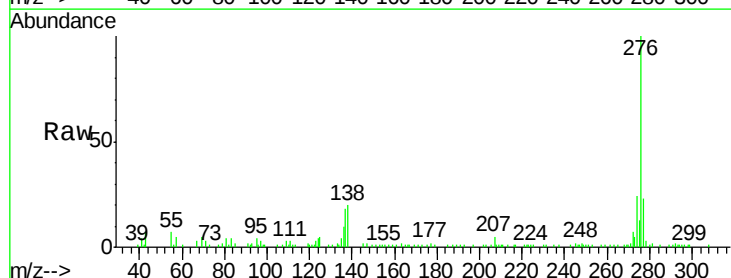
RT: 17.43 min Scan# 2608

Delta R.T. 0.00 min

Lab File: BF101094.D

Acq: 4 Dec 2017 13:35

Tgt Ion:	276	Resp:	85825
Ion Ratio	Lower	Upper	
276	100		
277	23.4	17.9	26.9
138	20.5	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

