

Data Path : Z:\HPCHEM1\BNA F\DATA\BF011317\
 Data File : BF092267.D
 Acq On : 14 Jan 2017 3:06
 Operator : UM/SJ
 Sample : I1147-01
 Misc :
 ALS Vial : 28 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 TOD-SB-01-0-2

Manual Integrations
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Quant Time: Jan 16 03:02:03 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF122116.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Jan 16 01:02:36 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.58	152	204208	20.00	ng	-0.01
21) Naphthalene-d8	7.86	136	713532	20.00	ng	-0.02
38) Acenaphthene-d10	9.60	164	309833	20.00	ng	-0.02
63) Phenanthrene-d10	11.09	188	452161	20.00	ng	-0.01
75) Chrysene-d12	13.72	240	292898	20.00	ng	-0.01
86) Perylene-d12	15.07	264	324001	20.00	ng	-0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.17	112	1256595	102.75	ng	0.00
7) Phenol-d6	6.24	99	1749511	117.17	ng	-0.01
23) Nitrobenzene-d5	7.15	82	1005996	78.40	ng	-0.01
41) 2,4,6-Tribromophenol	10.40	330	287395	112.08	ng	-0.01
44) 2-Fluorobiphenyl	8.94	172	1244410	81.81	ng	-0.01
78) Terphenyl-d14	12.67	244	803059	66.50	ng	-0.02
Target Compounds						Qvalue
10) Phenol	6.26	94	98950	5.82	ng	# 66
31) Naphthalene	7.88	128	301482	9.23	ng	98
37) 2-Methylnaphthalene	8.58	142	71792	2.37	ng	97
49) Dimethylphthalate	9.34	163	225162	11.36	ng	99
51) Acenaphthene	9.64	154	255700	14.60	ng	98
54) Dibenzofuran	9.81	168	138526	5.86	ng	98
57) Fluorene	10.15	166	188459	10.95	ng	100
70) Phenanthrene	11.11	178	1288702	52.56	ng	98
71) Anthracene	11.16	178	406905	14.96	ng	98
72) Carbazole	11.32	167	183736	6.67	ng	99
74) Fluoranthene	12.29	202	1218645	57.74	ng	99
77) Pvrene	12.52	202	1057924	49.23	ng	99
80) Benzo(a)anthracene	13.71	228	567609	34.33	ng	99
82) Chrysene	13.74	228	459392m	27.70	ng	
85) Indeno(1,2,3-cd)pyrene	16.30	276	249901	17.39	ng	93
87) Benzo(b)fluoranthene	14.70	252	691011m	34.26	ng	
88) Benzo(k)fluoranthene	14.73	252	95515m	5.55	ng	
89) Benzo(a)pyrene	15.01	252	426541	23.82	ng	97
90) Dibenzo(a,h)anthracene	16.30	278	76388m	5.19	ng	
91) Benzo(a,h,i)perylene	16.67	276	217799	14.23	ng	97

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



#1

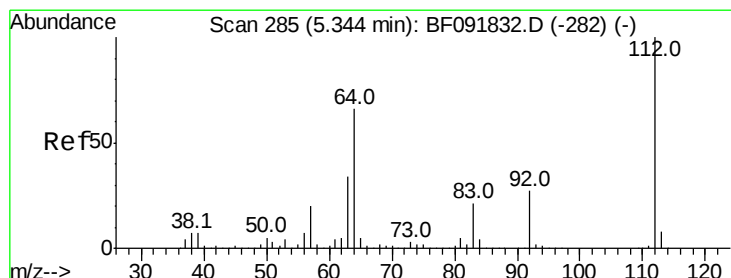
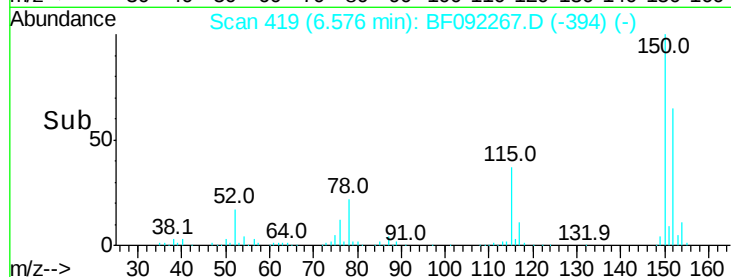
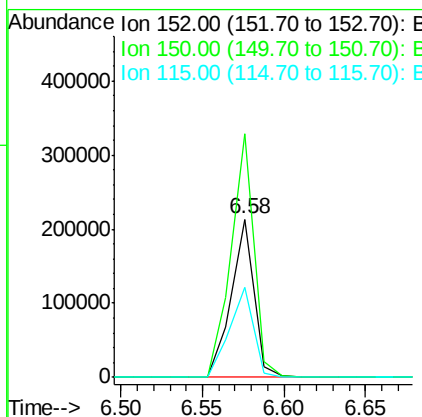
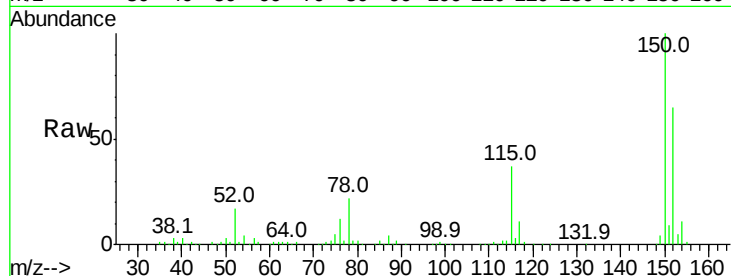
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 6.58 min Scan# 419
Delta R.T. -0.01 min
Lab File: BF092267.D
Acq: 14 Jan 2017 3:06

Instrument :
BNA_F
ClientSampleId :
TOD-SB-01-0-2

Tot Ion	Ratio	Lower	Upper
152	100		
150	154.2	124.9	187.3
115	57.0	46.0	69.0

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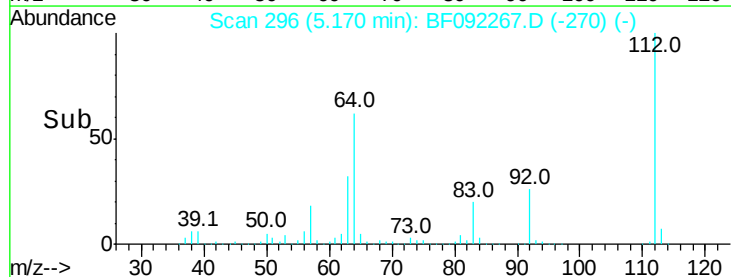
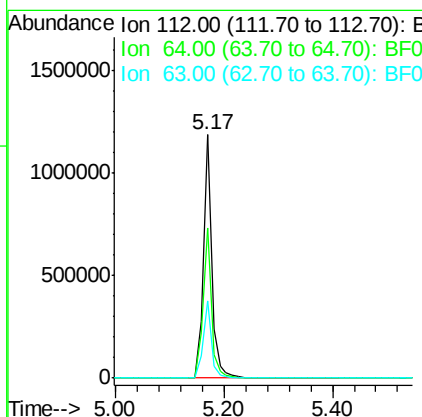
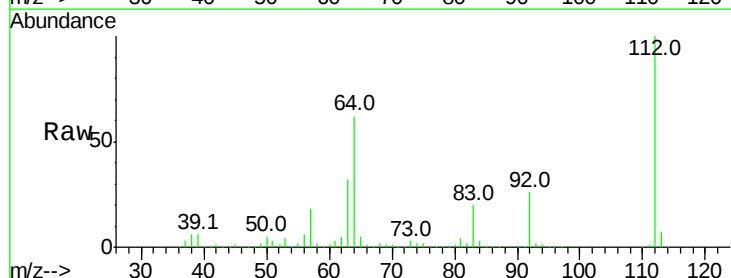
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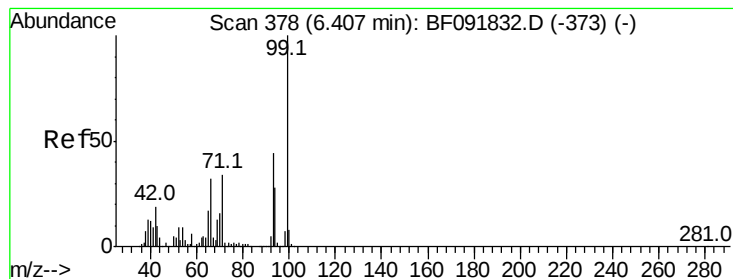


#5

2-Fluorophenol
Concen: 102.75 ng
RT: 5.17 min Scan# 296
Delta R.T. 0.00 min
Lab File: BF092267.D
Acq: 14 Jan 2017 3:06

Tgt Ion	Ratio	Lower	Upper
112	100		
64	61.8	46.1	69.1
63	31.8	23.8	35.6





#7

Phenol-d6

Concen: 117.17 ng

RT: 6.24 min Scan# 390

Delta R.T. -0.01 min

Lab File: BF092267.D

Acq: 14 Jan 2017 3:06

Instrument :

BNA_F

ClientSampleId :

TOD-SB-01-0-2

Tot Ion: 99 Resp: 1749511

Ion Ratio Lower Upper

99 100

42 18.5 15.6 23.4

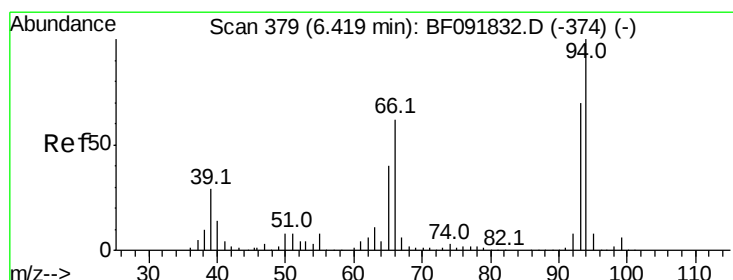
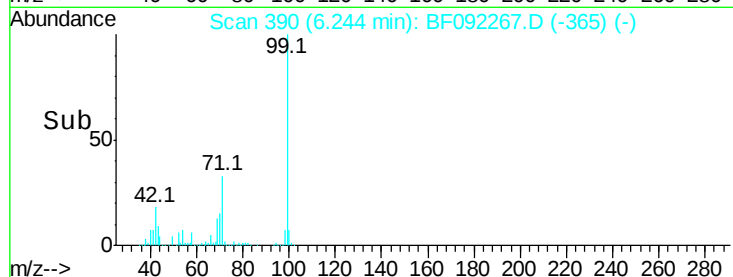
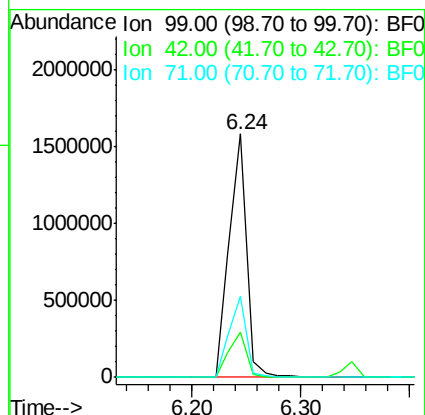
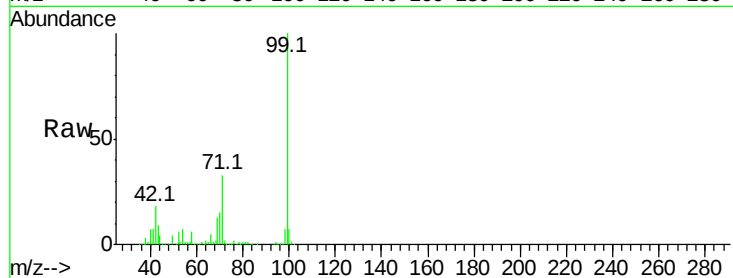
71 33.2 27.5 41.3

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#10

Phenol

Concen: 5.82 ng

RT: 6.26 min Scan# 391

Delta R.T. -0.01 min

Lab File: BF092267.D

Acq: 14 Jan 2017 3:06

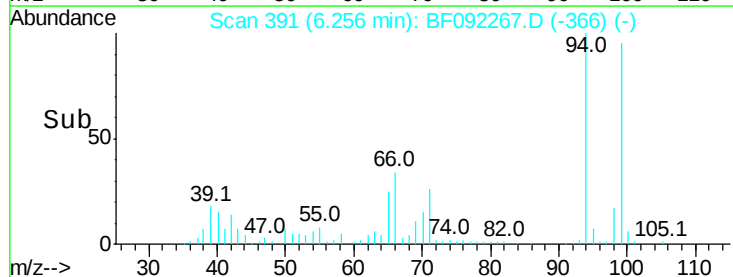
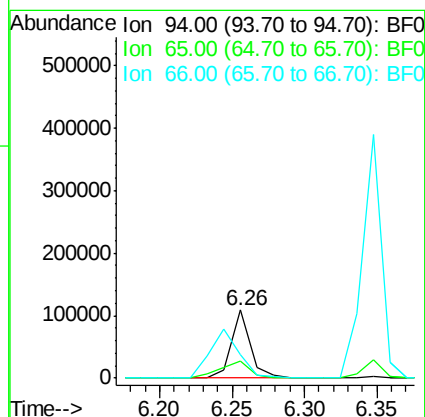
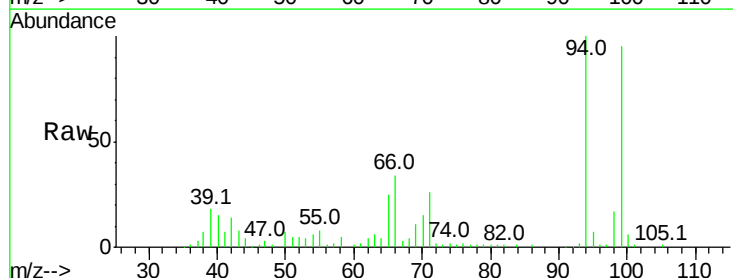
Tgt Ion: 94 Resp: 98950

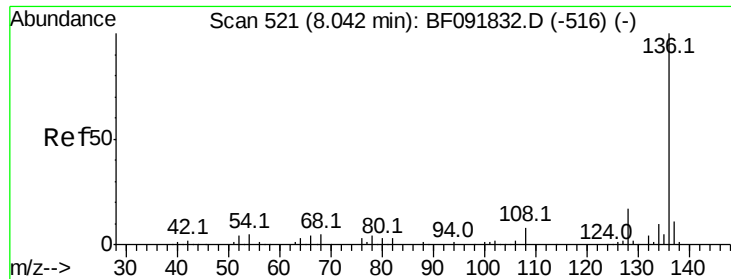
Ion Ratio Lower Upper

94 100

65 24.9 21.4 61.4

66 33.7 44.0 84.0#





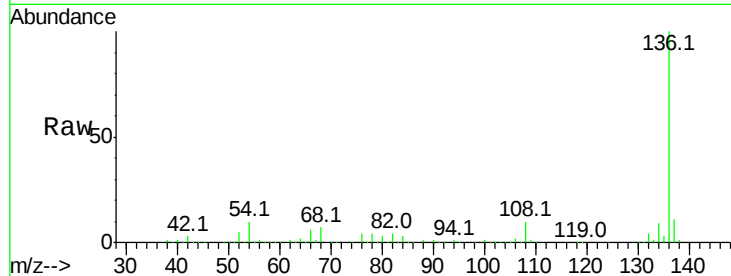
#21
Naphthalene-d8
Concen: 20.00 ng
RT: 7.86 min Scan# 531
Delta R.T. -0.02 min
Lab File: BF092267.D
Acq: 14 Jan 2017 3:06

Instrument :
BNA_F
ClientSampleId :
TOD-SB-01-0-2

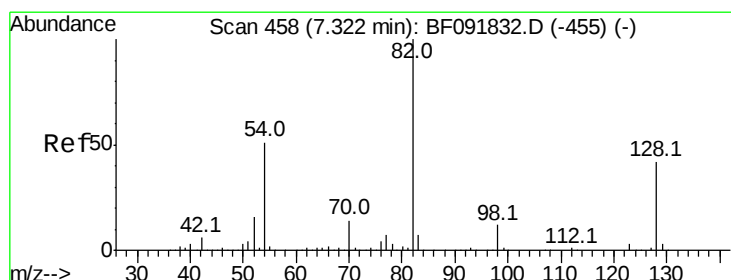
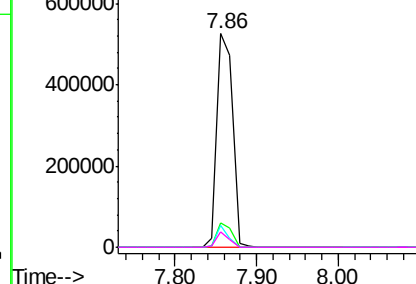
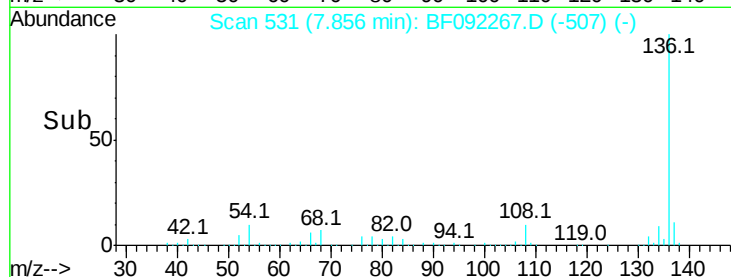
Tot Ion	Ratio	Resp	Lower	Upper
136	100	713532		
137	11.5	8.4	12.6	
54	10.0	4.5	6.7#	
68	7.4	3.6	5.4#	

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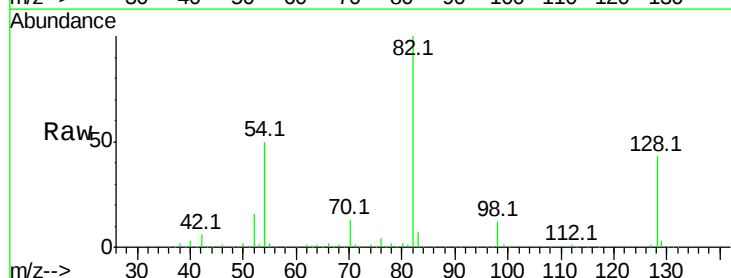


Abundance Ion 136.00 (135.70 to 136.70): E
Ion 137.00 (136.70 to 137.70): E
Ion 54.00 (53.70 to 54.70): BF0
Ion 68.00 (67.70 to 68.70): BF0

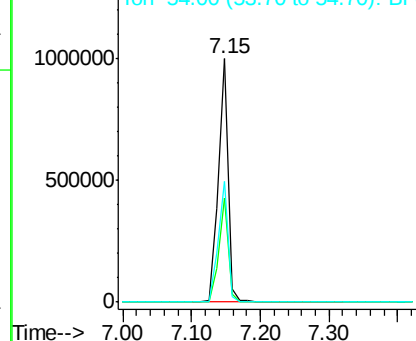
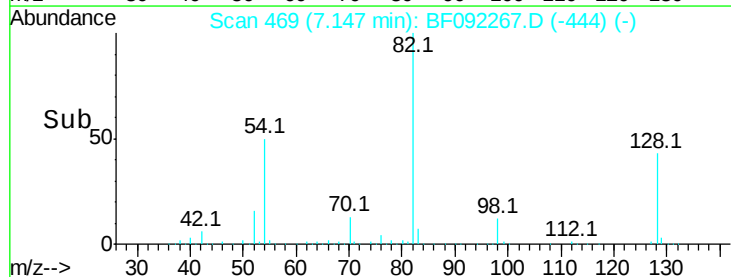


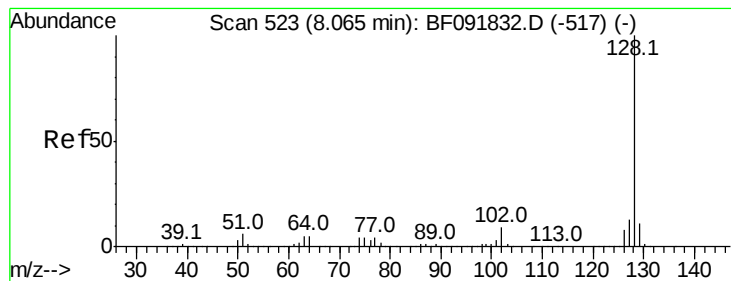
#23
Nitrobenzene-d5
Concen: 78.40 ng
RT: 7.15 min Scan# 469
Delta R.T. -0.01 min
Lab File: BF092267.D
Acq: 14 Jan 2017 3:06

Tgt Ion	Ratio	Resp	Lower	Upper
82	100	1005996		
128	42.7	34.6	52.0	
54	49.7	39.5	59.3	



Abundance Ion 82.00 (81.70 to 82.70): BF0
Ion 128.00 (127.70 to 128.70): E
Ion 54.00 (53.70 to 54.70): BF0





#31

Naphthalene

Concen: 9.23 ng

RT: 7.88 min Scan# 533

Delta R.T. -0.02 min

Lab File: BF092267.D

Acq: 14 Jan 2017 3:06

Instrument :

BNA_F

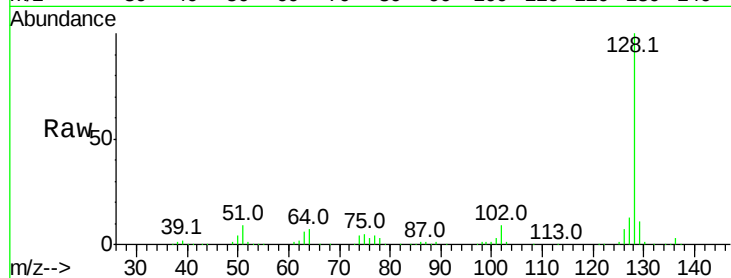
ClientSampleId :

TOD-SB-01-0-2

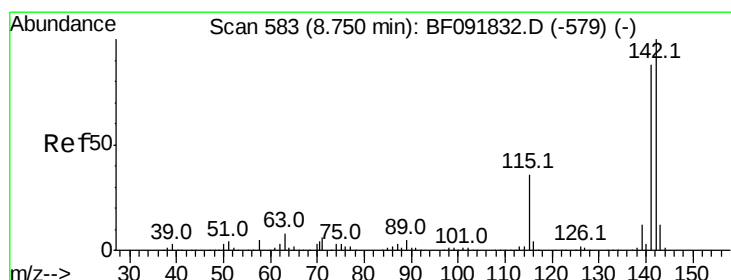
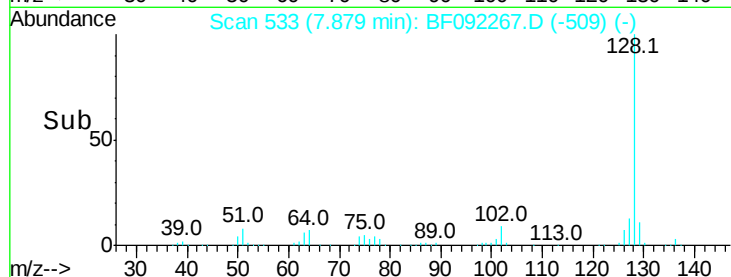
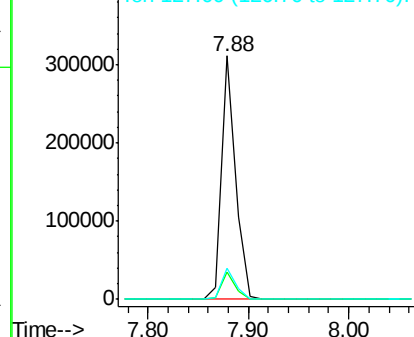
Tot Ion:	128	Resp:	301482
Ion Ratio	Lower	Upper	
128	100		
129	11.1	9.5	14.3
127	12.8	10.8	16.2

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



#37

2-Methylnaphthalene

Concen: 2.37 ng

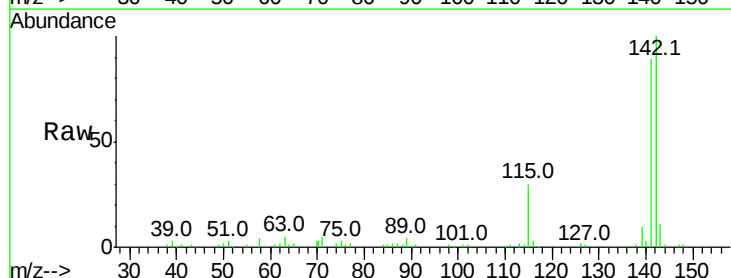
RT: 8.58 min Scan# 594

Delta R.T. -0.01 min

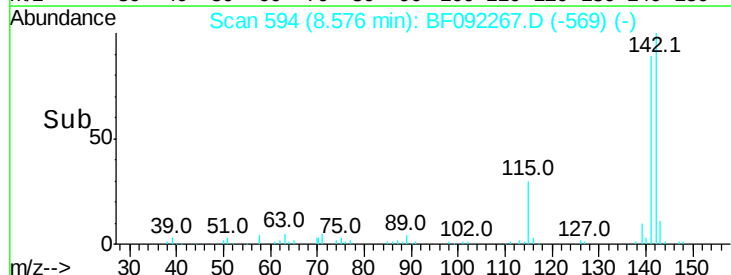
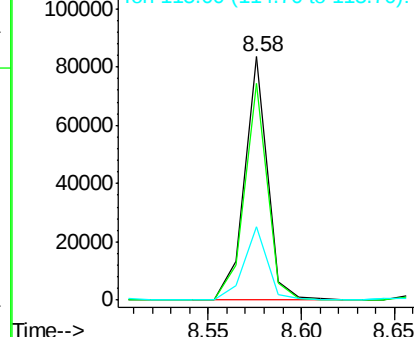
Lab File: BF092267.D

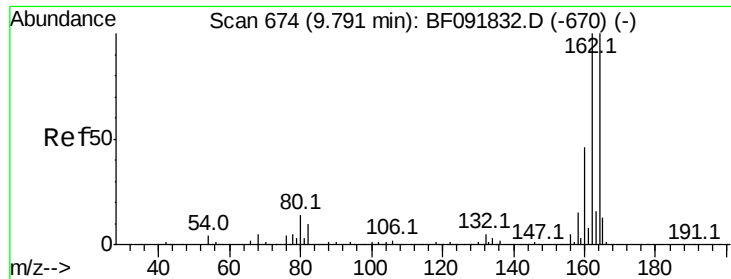
Acq: 14 Jan 2017 3:06

Tgt Ion:	142	Resp:	71792
Ion Ratio	Lower	Upper	
142	100		
141	89.1	71.0	106.6
115	30.4	28.3	42.5



Abundance Ion 142.00 (141.70 to 142.70): E
Ion 141.00 (140.70 to 141.70): E
Ion 115.00 (114.70 to 115.70): E





#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.60 min Scan# 684

Delta R.T. -0.02 min

Lab File: BF092267.D

Acq: 14 Jan 2017 3:06

Instrument :

BNA_F

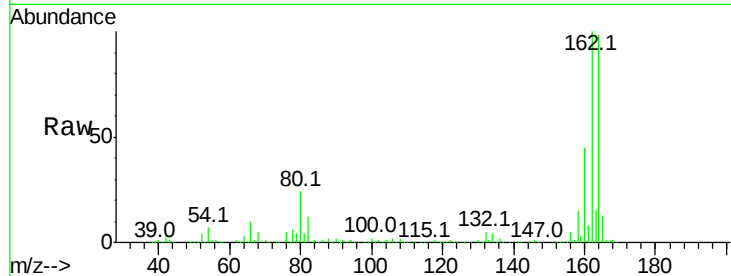
ClientSampleId :

TOD-SB-01-0-2

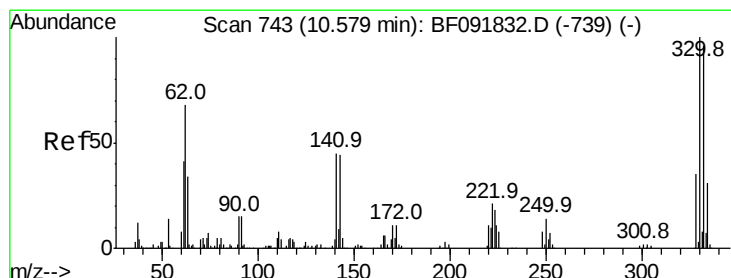
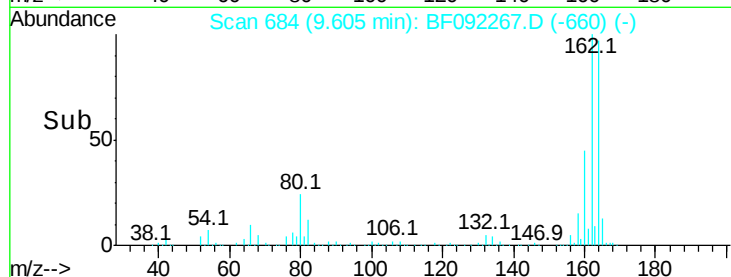
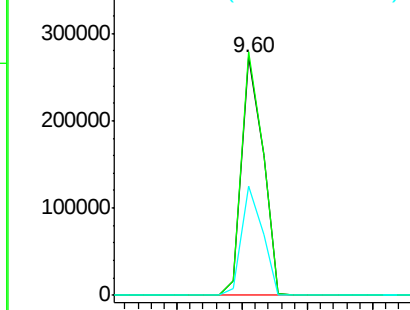
Tot Ion:	164	Resp:	309833
Ion Ratio	Lower	Upper	
164	100		
162	102.2	80.2	120.2
160	45.7	36.9	55.3

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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: 112.08 ng

RT: 10.40 min Scan# 754

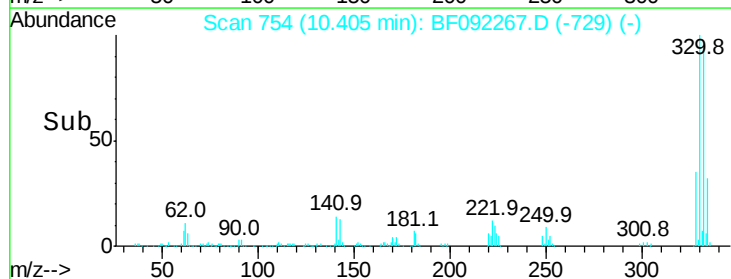
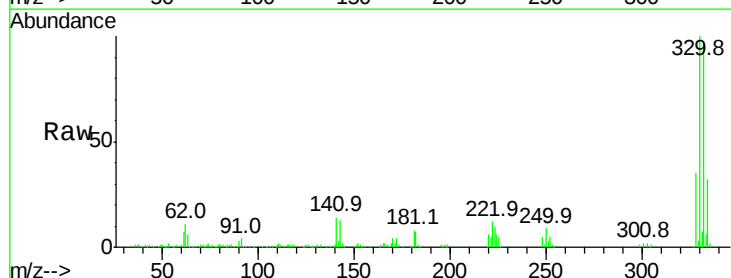
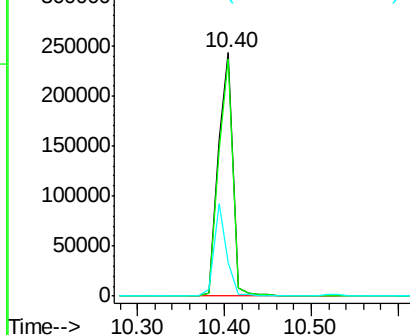
Delta R.T. -0.01 min

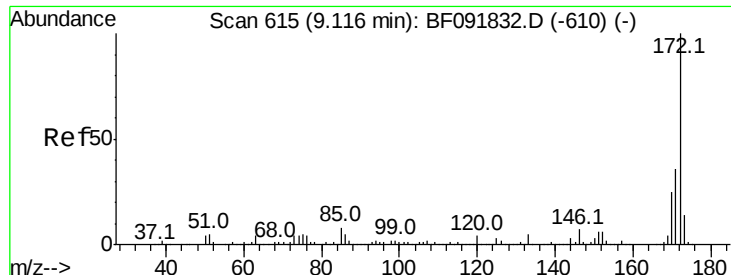
Lab File: BF092267.D

Acq: 14 Jan 2017 3:06

Tgt Ion:	330	Resp:	287395
Ion Ratio	Lower	Upper	
330	100		
332	96.2	77.4	116.2
141	33.2	34.1	51.1#

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





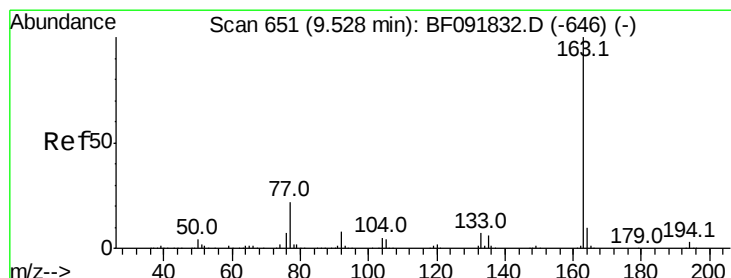
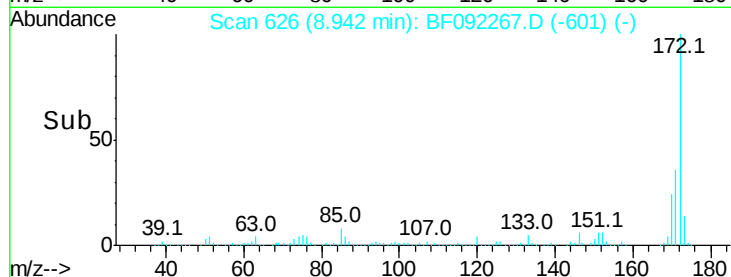
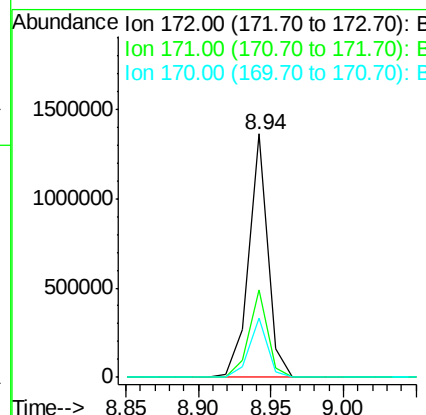
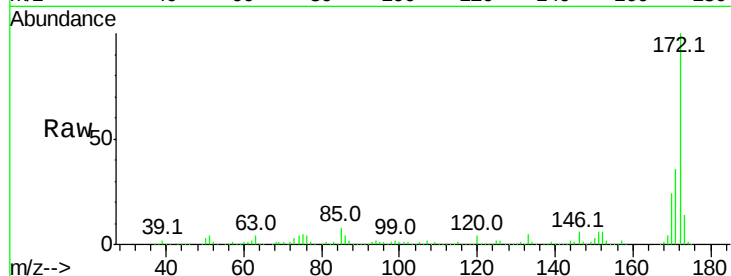
#44
2-Fluorobiphenyl
Concen: 81.81 ng
RT: 8.94 min Scan# 626
Delta R.T. -0.01 min
Lab File: BF092267.D
Acq: 14 Jan 2017 3:06

Instrument :
BNA_F
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TOD-SB-01-0-2

Tot Ion	Ratio	Lower	Upper
172	100		
171	35.9	29.4	44.0
170	24.2	20.2	30.4

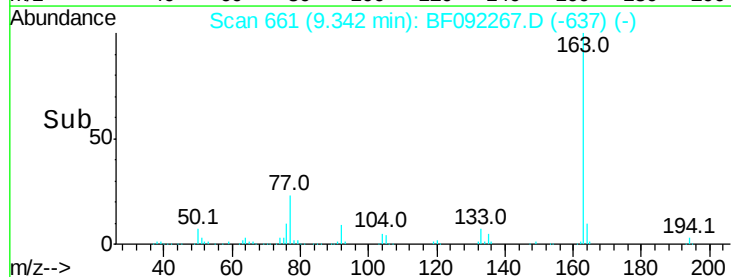
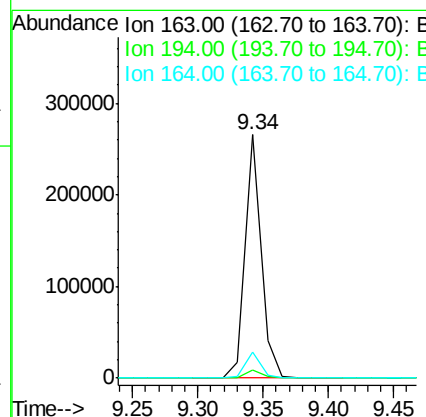
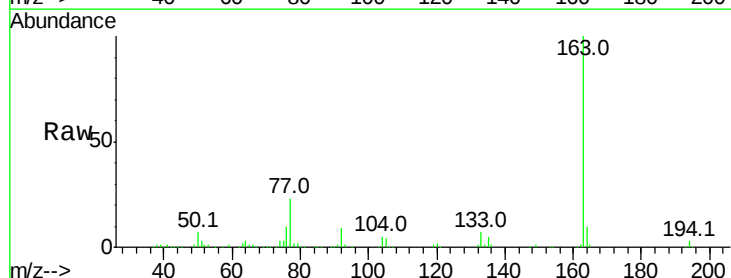
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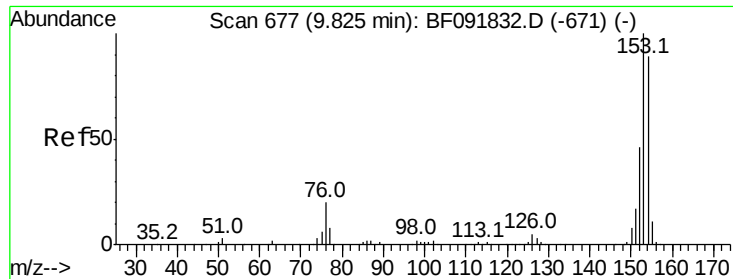
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#49
Dimethylphthalate
Concen: 11.36 ng
RT: 9.34 min Scan# 661
Delta R.T. -0.02 min
Lab File: BF092267.D
Acq: 14 Jan 2017 3:06

Tgt Ion	Ratio	Lower	Upper
163	100		
194	3.1	3.0	4.4
164	10.5	8.0	12.0





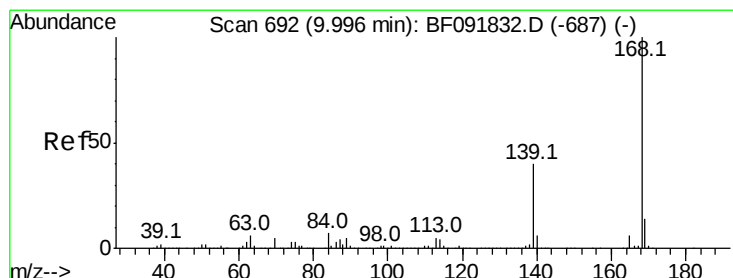
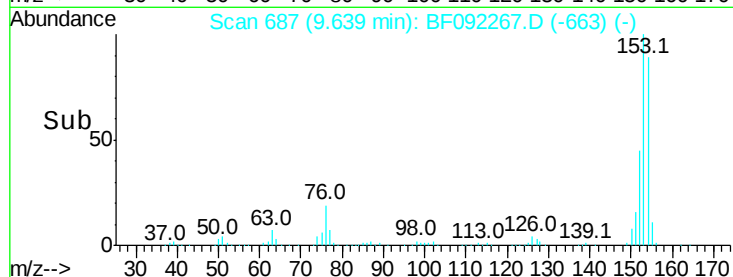
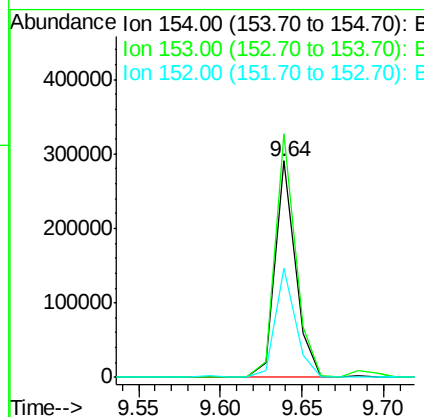
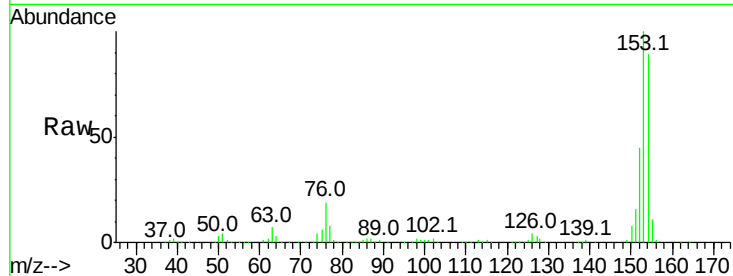
#51
Acenaphthene
Concen: 14.60 ng
RT: 9.64 min Scan# 687
Delta R.T. -0.02 min
Lab File: BF092267.D
Acq: 14 Jan 2017 3:06

Instrument :
BNA_F
ClientSampleId :
TOD-SB-01-0-2

Tot Ion	Ratio	Lower	Upper
154	100		
153	112.7	88.6	133.0
152	50.8	41.6	62.4

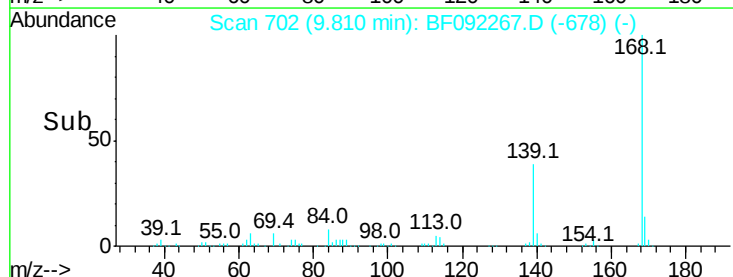
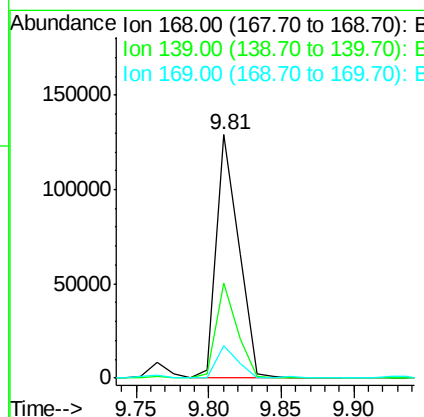
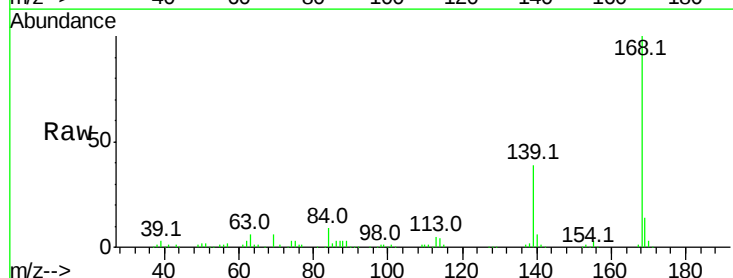
Manual Integrations
APPROVED

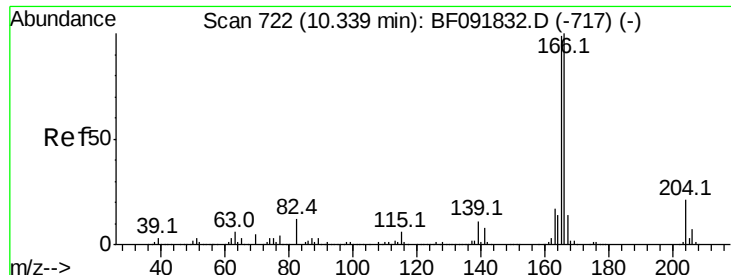
Sohil
1/16/2017 8:39:24 AM



#54
Dibenzofuran
Concen: 5.86 ng
RT: 9.81 min Scan# 702
Delta R.T. -0.02 min
Lab File: BF092267.D
Acq: 14 Jan 2017 3:06

Tgt Ion	Ratio	Lower	Upper
168	100		
139	39.3	32.6	49.0
169	13.5	11.3	16.9





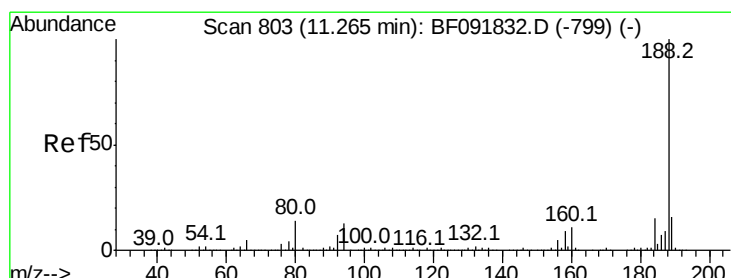
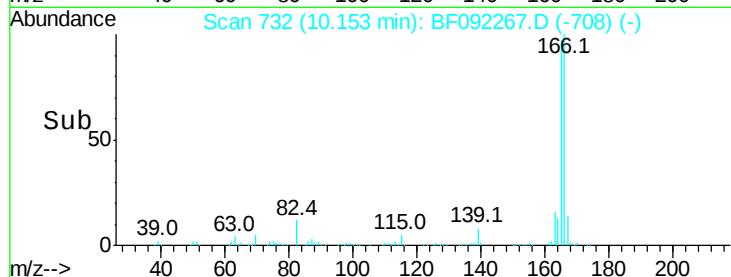
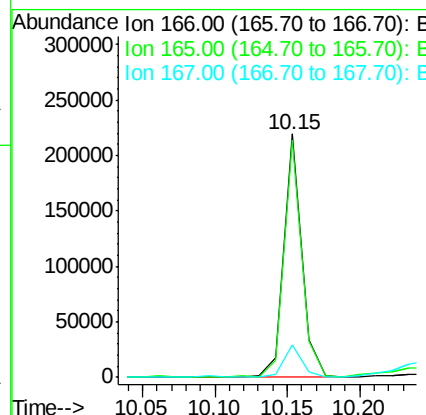
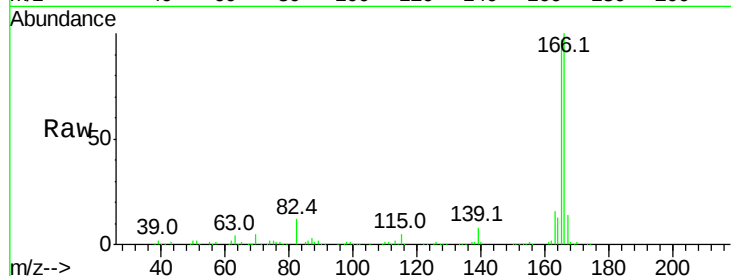
#57
Fluorene
 Concen: 10.95 ng
 RT: 10.15 min Scan# 732
 Delta R.T. -0.02 min
 Lab File: BF092267.D
 Acq: 14 Jan 2017 3:06

Instrument :
 BNA_F
 ClientSampleId :
 TOD-SB-01-0-2

Tot Ion	Ratio	Resp	Lower	Upper
166	100	188459		
165	97.3		77.8	116.8
167	13.6		10.8	16.2

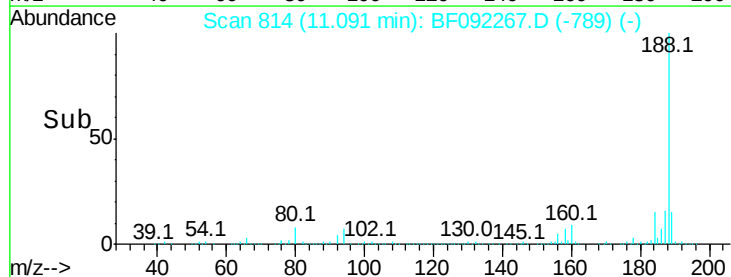
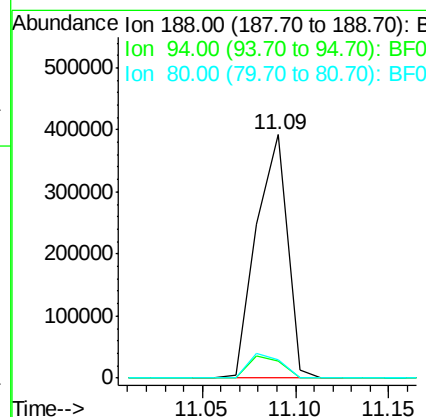
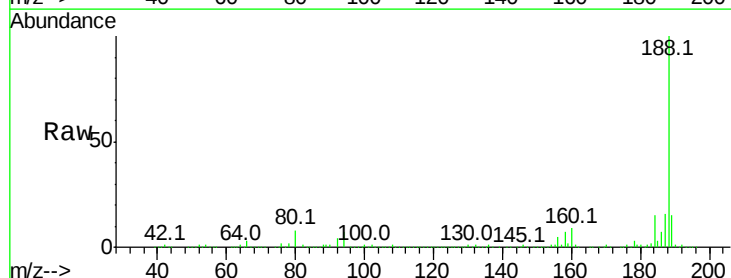
Manual Integrations
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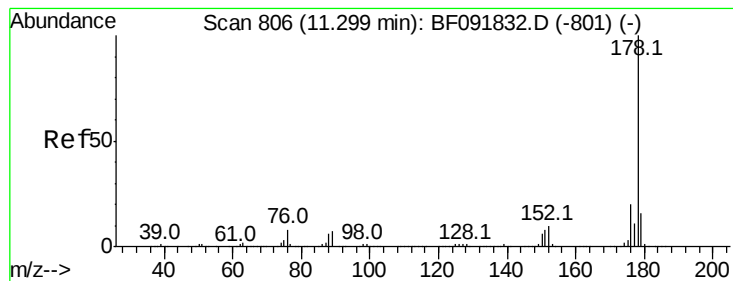
Sohil
 1/16/2017 8:39:24 AM



#63
Phenanthrene-d10
 Concen: 20.00 ng
 RT: 11.09 min Scan# 814
 Delta R.T. -0.01 min
 Lab File: BF092267.D
 Acq: 14 Jan 2017 3:06

Tgt Ion	Ratio	Resp	Lower	Upper
188	100	452161		
94	7.2		10.0	15.0#
80	7.5		11.2	16.8#





#70

Phenanthrene

Concen: 52.56 ng

RT: 11.11 min Scan# 816

Delta R.T. -0.01 min

Lab File: BF092267.D

Acq: 14 Jan 2017 3:06

Instrument :

BNA_F

ClientSampleId :

TOD-SB-01-0-2

Tot Ion:178 Resp: 1288702

Ion Ratio Lower Upper

178 100

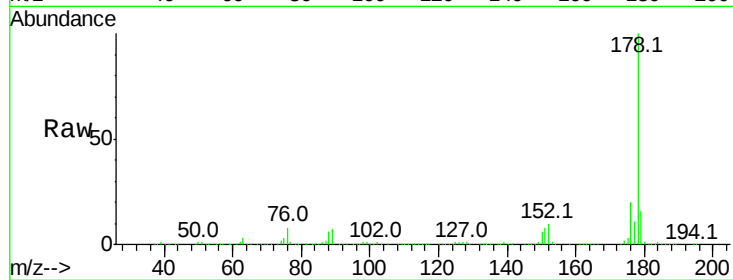
176 19.8 16.6 25.0

179 15.6 12.8 19.2

Manual Integrations
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Sohil

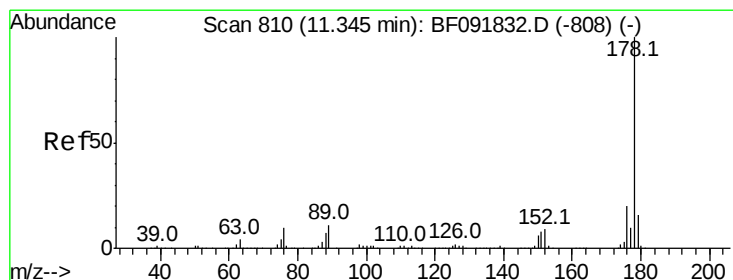
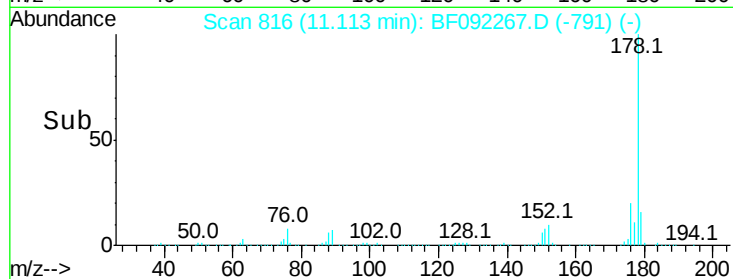
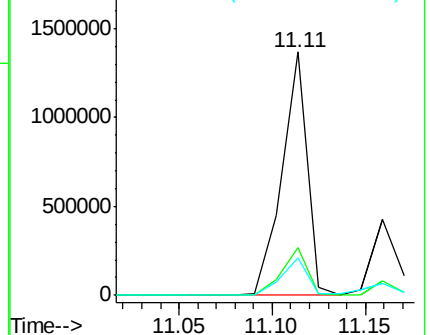
1/16/2017 8:39:24 AM



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: 14.96 ng

RT: 11.16 min Scan# 820

Delta R.T. -0.02 min

Lab File: BF092267.D

Acq: 14 Jan 2017 3:06

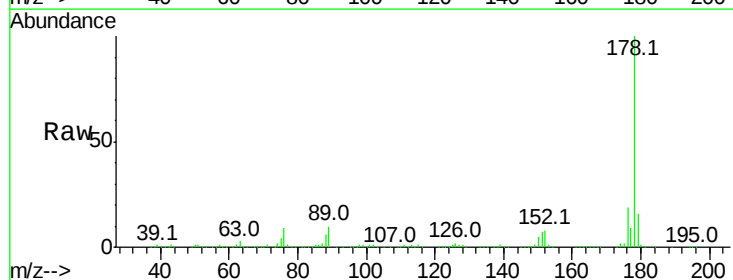
Tgt Ion:178 Resp: 406905

Ion Ratio Lower Upper

178 100

176 18.8 15.9 23.9

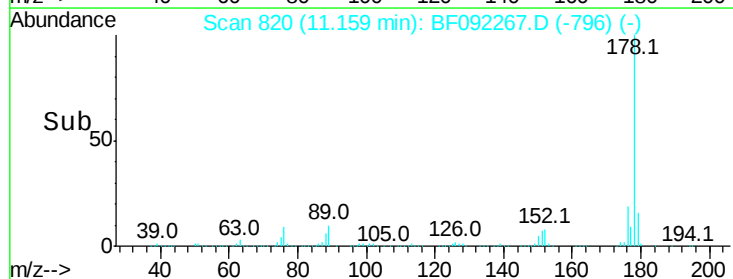
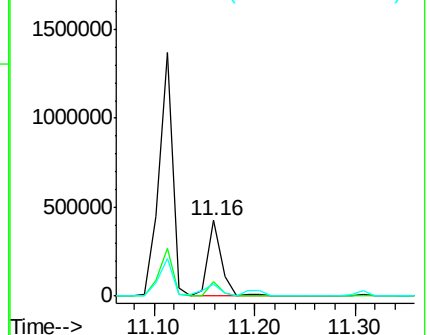
179 15.7 13.2 19.8

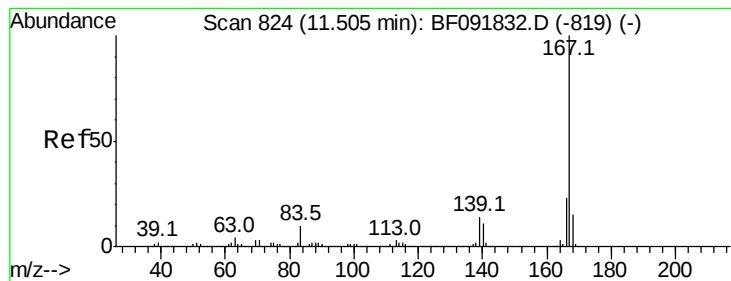


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#72

Carbazole

Concen: 6.67 ng

RT: 11.32 min Scan# 834

Delta R.T. -0.02 min

Lab File: BF092267.D

Acq: 14 Jan 2017 3:06

Instrument :

BNA_F

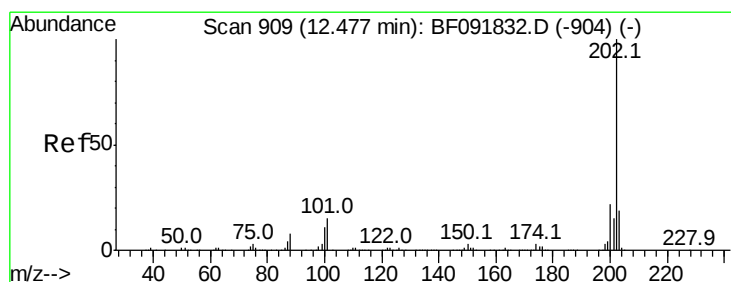
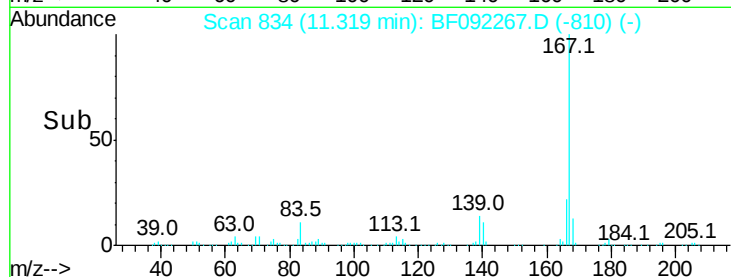
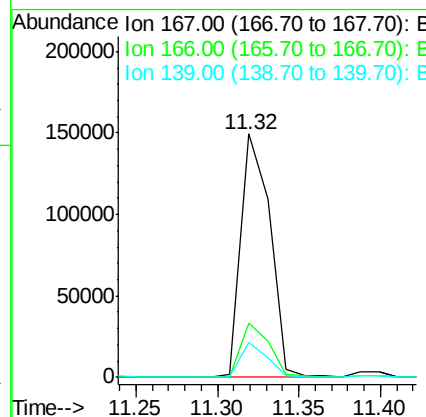
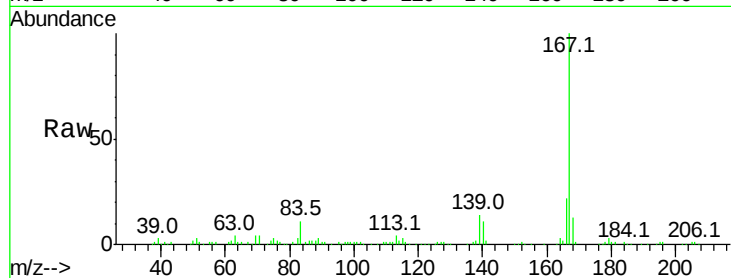
ClientSampleId :

TOD-SB-01-0-2

Tot Ion:	167	Resp:	183736
Ion Ratio	Lower	Upper	
167	100		
166	22.0	18.2	27.2
139	14.4	11.4	17.2

Manual Integrations
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#74

Fluoranthene

Concen: 57.74 ng

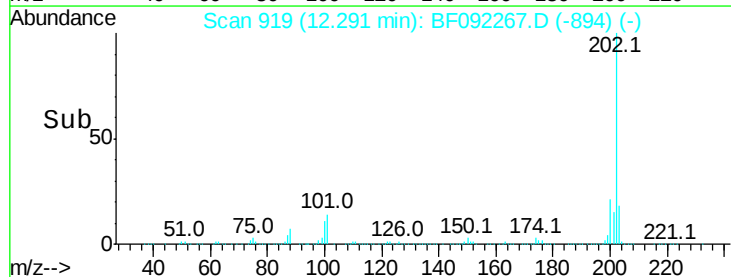
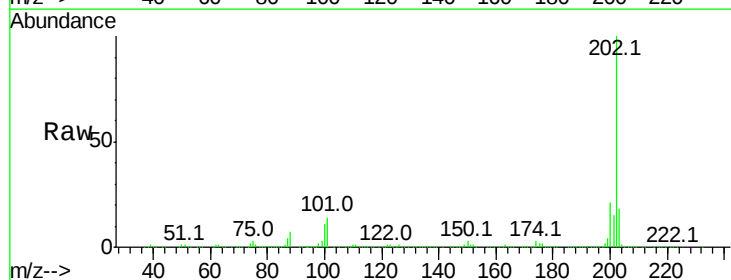
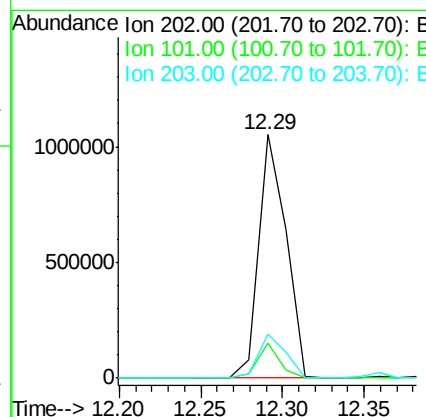
RT: 12.29 min Scan# 919

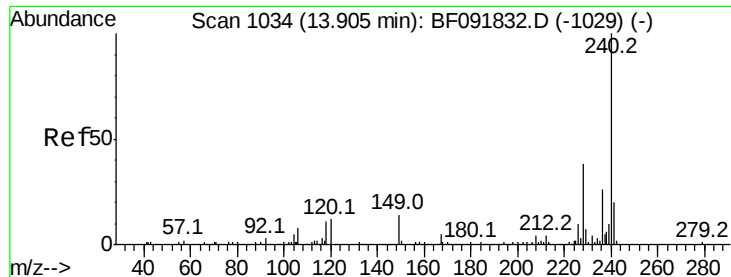
Delta R.T. -0.01 min

Lab File: BF092267.D

Acq: 14 Jan 2017 3:06

Tgt Ion:	202	Resp:	1218645
Ion Ratio	Lower	Upper	
202	100		
101	14.4	0.0	34.6
203	18.2	0.0	38.7





#75

Chrysene-d12

Concen: 20.00 ng

RT: 13.72 min Scan# 1044

Delta R.T. -0.01 min

Lab File: BF092267.D

Acq: 14 Jan 2017 3:06

Instrument :

BNA_F

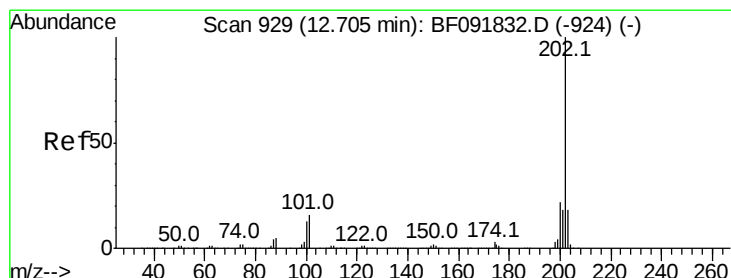
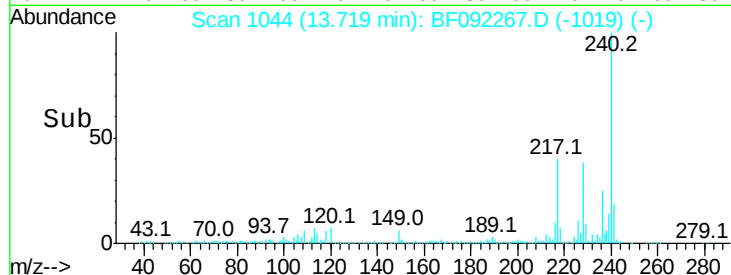
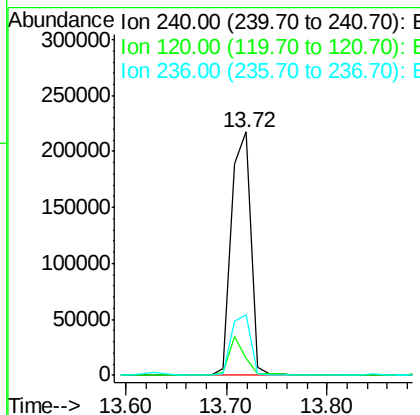
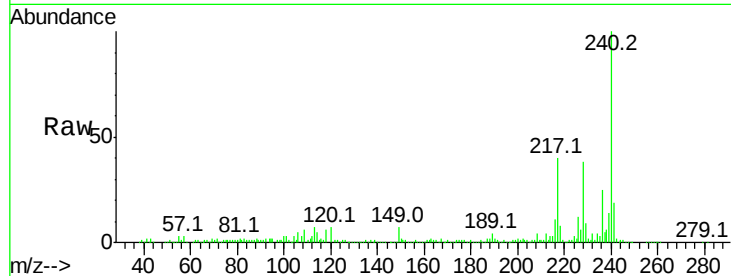
ClientSampleId :

TOD-SB-01-0-2

Tot Ion	Ratio	Lower	Upper
240	100		
120	7.0	12.9	19.3#
236	25.0	20.9	31.3

Manual Integrations
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#77

Pyrene

Concen: 49.23 ng

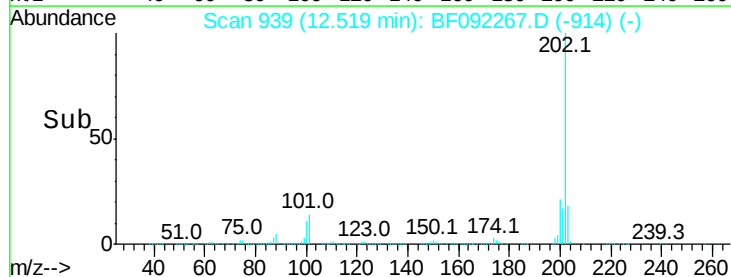
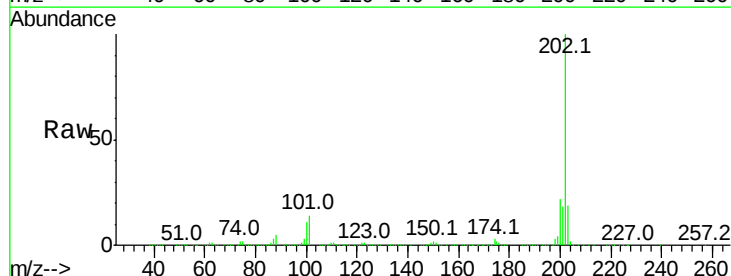
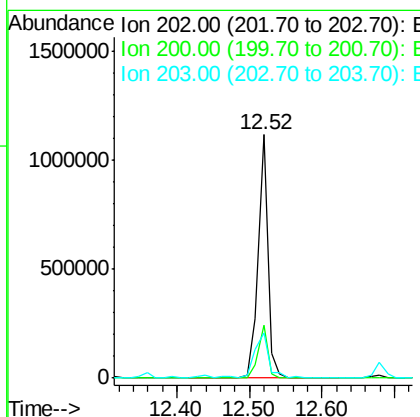
RT: 12.52 min Scan# 939

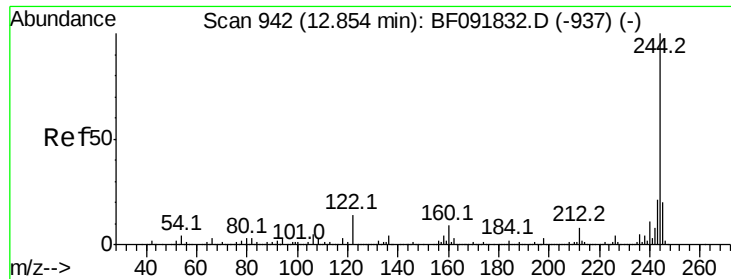
Delta R.T. -0.01 min

Lab File: BF092267.D

Acq: 14 Jan 2017 3:06

Tgt Ion	Ratio	Lower	Upper
202	100		
200	21.5	17.7	26.5
203	18.5	14.7	22.1





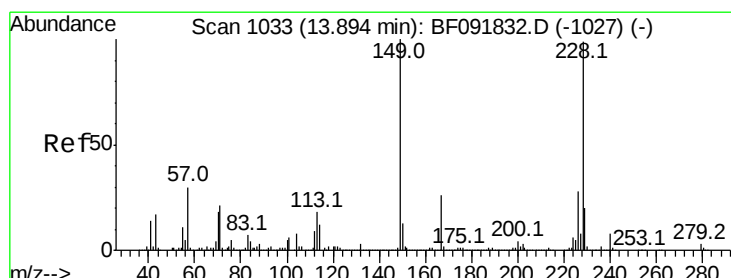
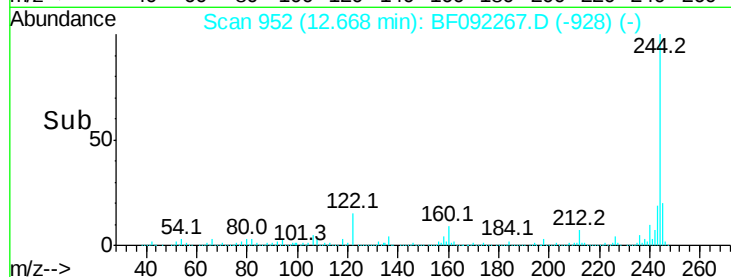
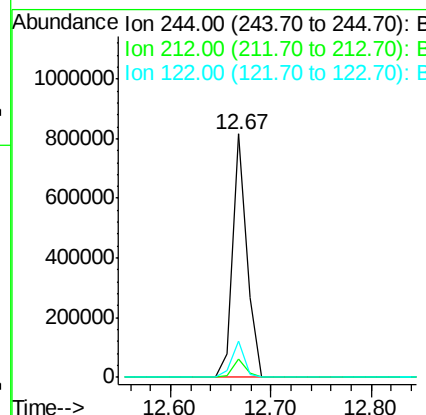
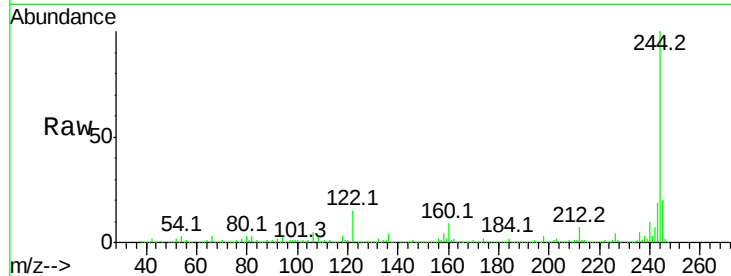
#78
 Terphenyl-d14
 Concen: 66.50 ng
 RT: 12.67 min Scan# 952
 Delta R.T. -0.02 min
 Lab File: BF092267.D
 Acq: 14 Jan 2017 3:06

Instrument :
 BNA_F
 ClientSampled :
 TOD-SB-01-0-2

Tot Ion	Ratio	Lower	Upper
244	100		
212	7.4	6.2	9.2
122	14.6	11.4	17.2

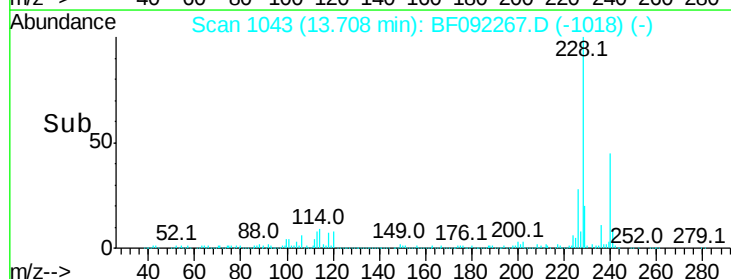
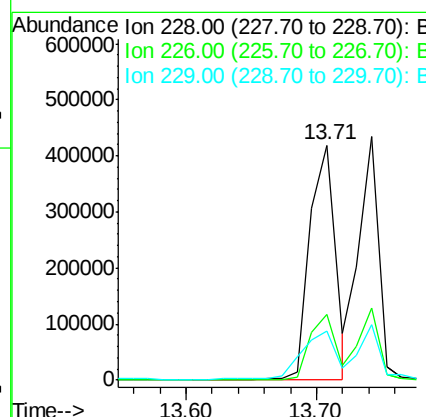
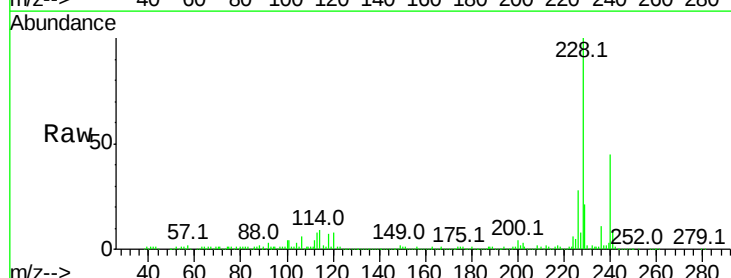
Manual Integrations
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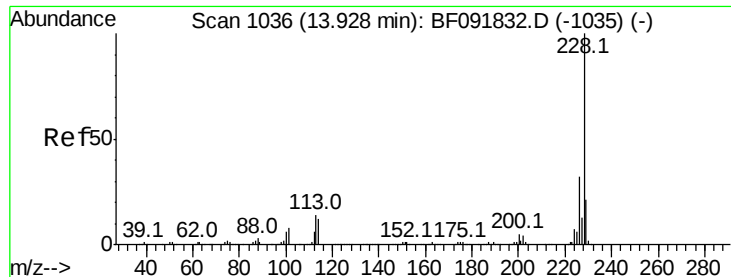
Sohil
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#80
 Benzo(a)anthracene
 Concen: 34.33 ng
 RT: 13.71 min Scan# 1043
 Delta R.T. -0.01 min
 Lab File: BF092267.D
 Acq: 14 Jan 2017 3:06

Tgt Ion	Ratio	Lower	Upper
228	100		
226	27.9	22.4	33.6
229	20.8	16.2	24.4





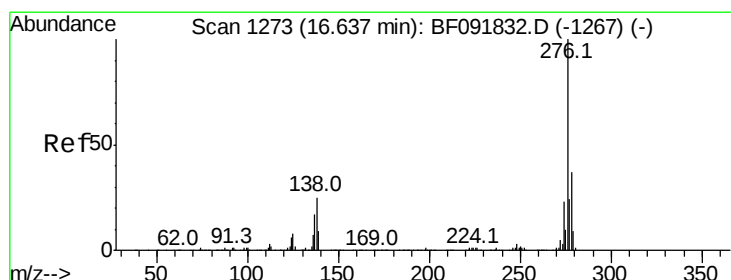
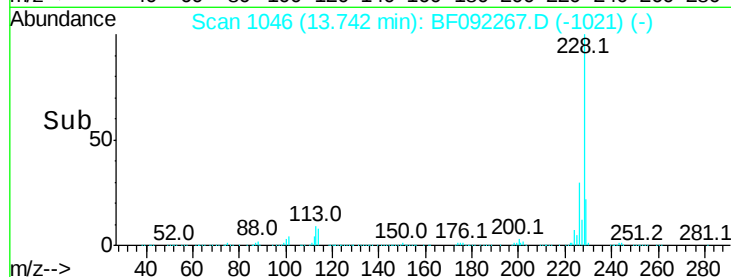
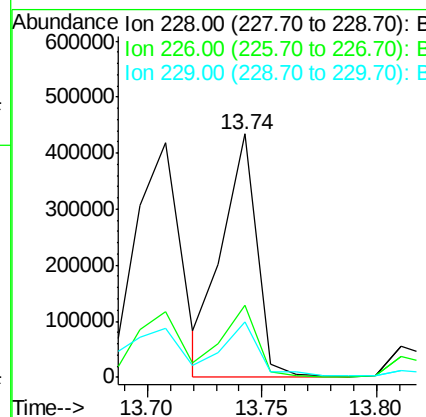
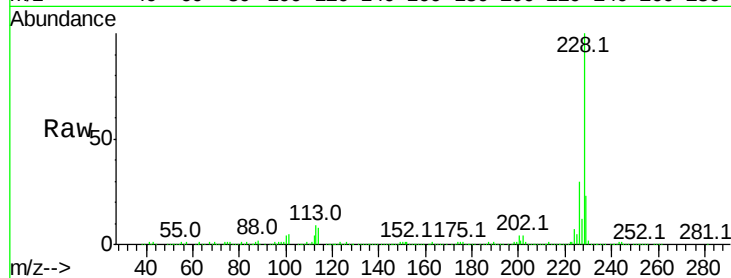
#82
Chrysene
Concen: 27.70 ng/ml
RT: 13.74 min Scan# 1046
Delta R.T. -0.01 min
Lab File: BF092267.D
Acq: 14 Jan 2017 3:06

Instrument :
BNA_F
ClientSampleId :
TOD-SB-01-0-2

Tot Ion:	228	Resp:	459392
Ion Ratio	Lower	Upper	
228	100		
226	29.7	25.4	38.0
229	22.8	16.2	24.2

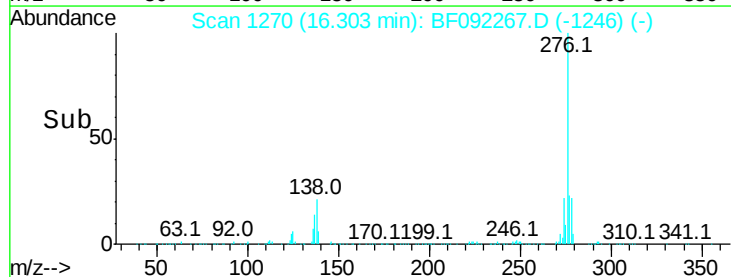
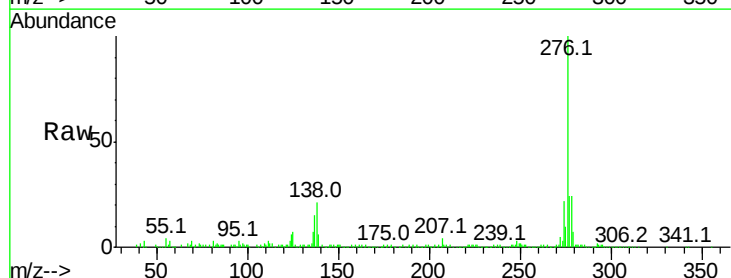
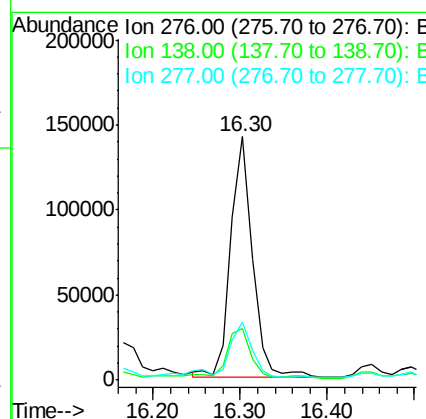
Manual Integrations
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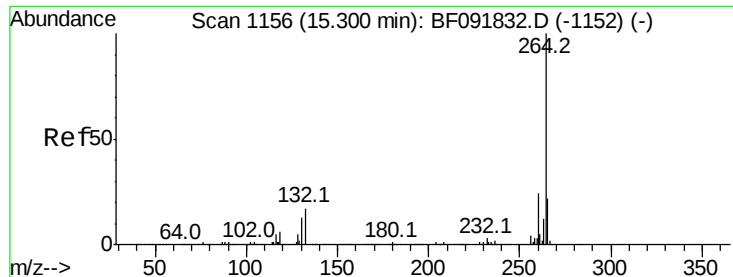
Sohil
1/16/2017 8:39:24 AM



#85
Indeno(1,2,3-cd)pyrene
Concen: 17.39 ng/ml
RT: 16.30 min Scan# 1270
Delta R.T. -0.02 min
Lab File: BF092267.D
Acq: 14 Jan 2017 3:06

Tgt Ion:	276	Resp:	249901
Ion Ratio	Lower	Upper	
276	100		
138	22.1	21.8	32.6
277	27.4	20.2	30.4





#86

Pervlene-d12

Concen: 20.00 ng

RT: 15.07 min Scan# 1162

Delta R.T. -0.02 min

Lab File: BF092267.D

Acq: 14 Jan 2017 3:06

Instrument :

BNA_F

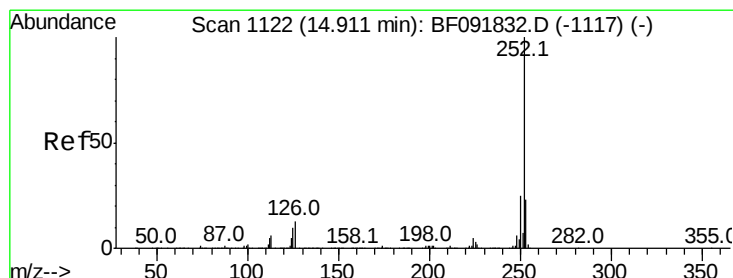
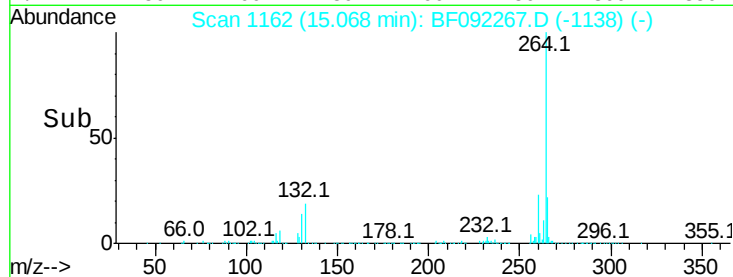
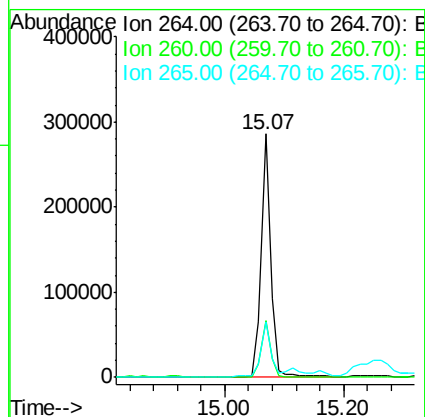
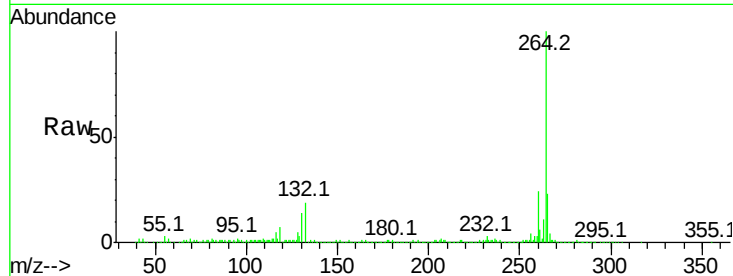
ClientSampleId :

TOD-SB-01-0-2

Tot Ion:	264	Resp:	324001
Ion Ratio	Lower	Upper	
264	100		
260	23.5	19.2	28.8
265	22.7	17.4	26.0

Manual Integrations
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#87

Benzo(b)fluoranthene

Concen: 34.26 ng m

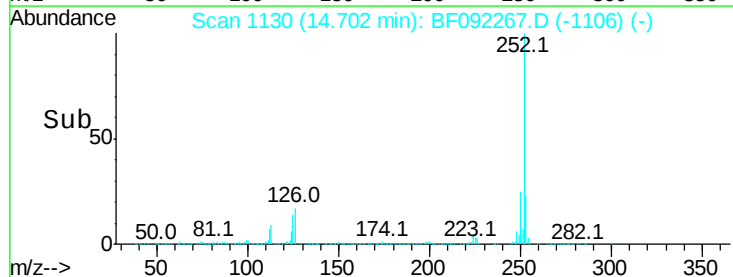
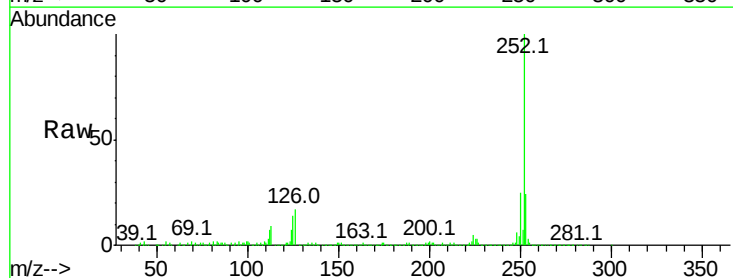
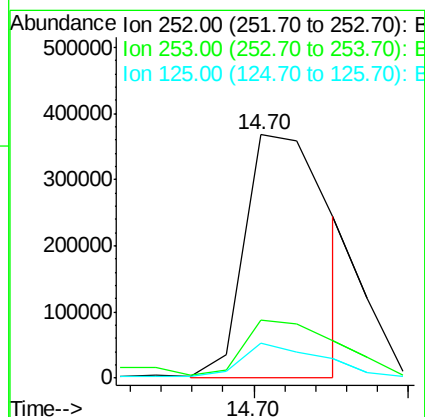
RT: 14.70 min Scan# 1130

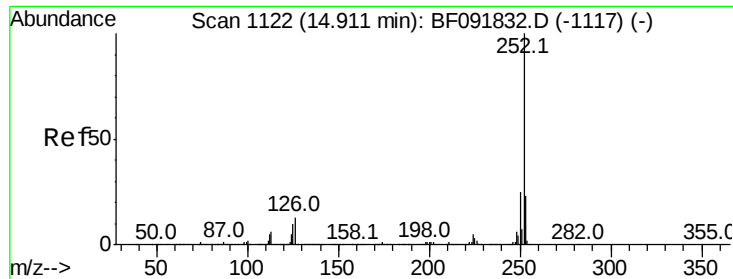
Delta R.T. -0.02 min

Lab File: BF092267.D

Acq: 14 Jan 2017 3:06

Tgt Ion:	252	Resp:	691011
Ion Ratio	Lower	Upper	
252	100		
253	23.8	18.2	27.4
125	14.2	9.8	14.6





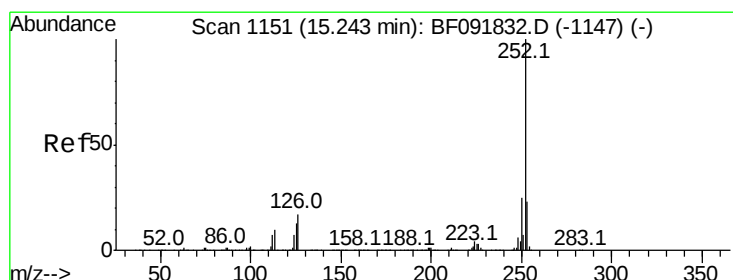
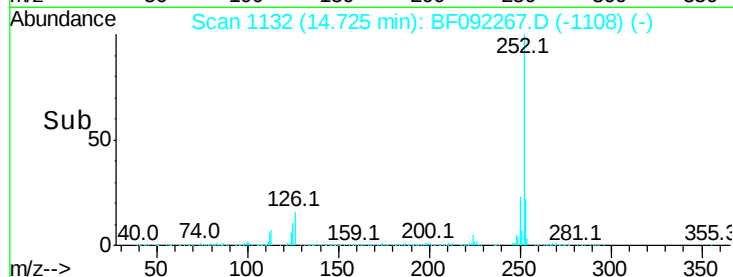
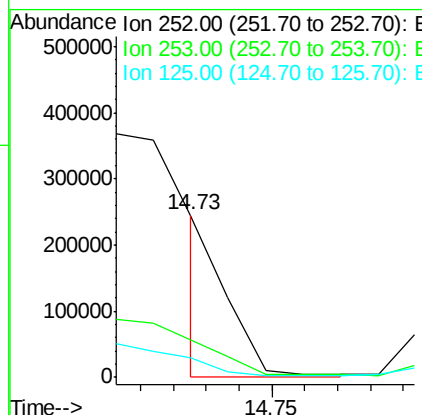
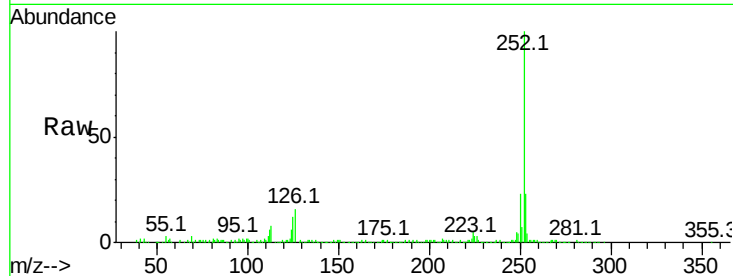
#88
Benzo(k)fluoranthene
Concen: 5.55 ng m
RT: 14.73 min Scan# 1132
Delta R.T. -0.02 min
Lab File: BF092267.D
Acq: 14 Jan 2017 3:06

Instrument :
BNA_F
ClientSampleId :
TOD-SB-01-0-2

Tot Ion	Ratio	Resp Lower	Upper
252	100		
253	22.9	18.5	27.7
125	11.9	8.9	13.3

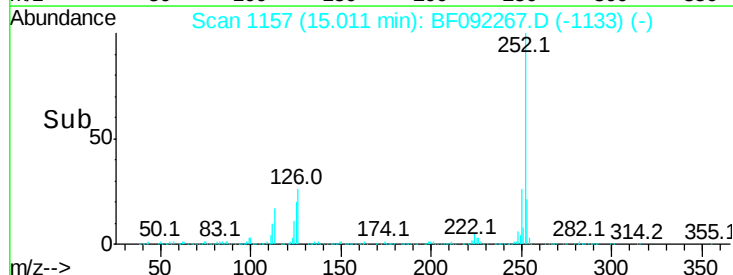
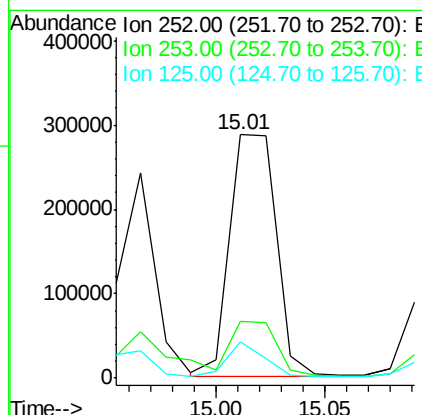
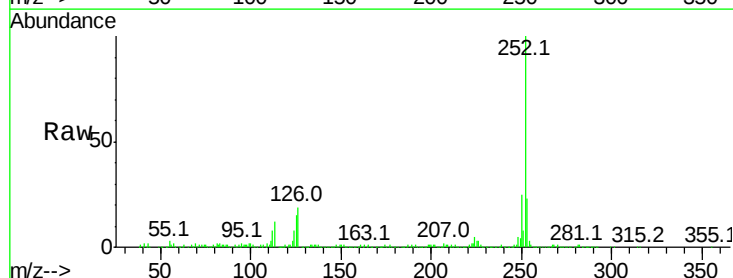
Manual Integrations
APPROVED

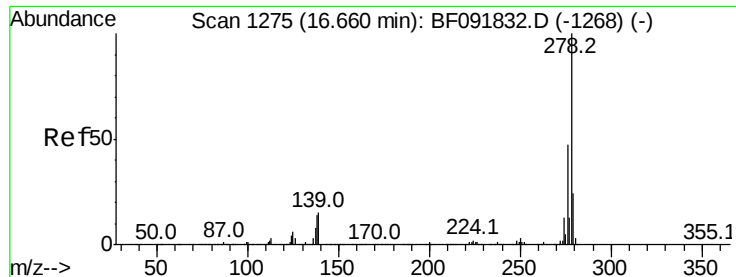
Sohil
1/16/2017 8:39:24 AM



#89
Benzo(a)pyrene
Concen: 23.82 ng
RT: 15.01 min Scan# 1157
Delta R.T. -0.02 min
Lab File: BF092267.D
Acq: 14 Jan 2017 3:06

Tgt Ion	Ratio	Resp Lower	Upper
252	100		
253	23.2	18.2	27.2
125	15.0	10.0	15.0





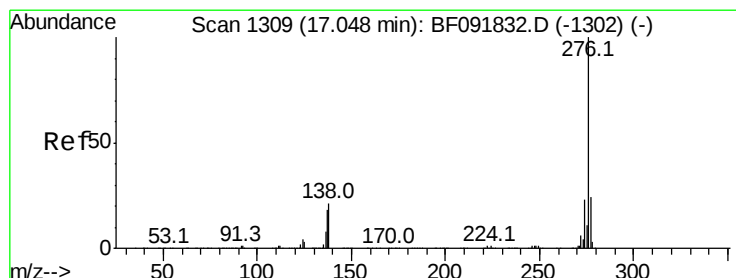
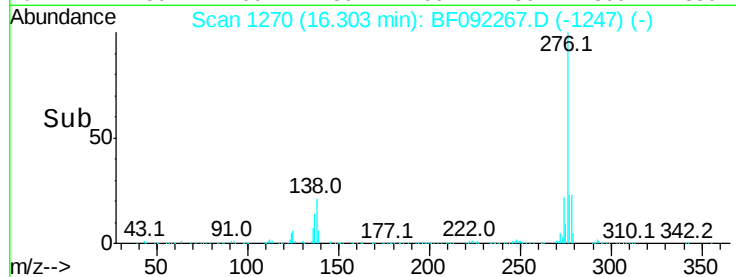
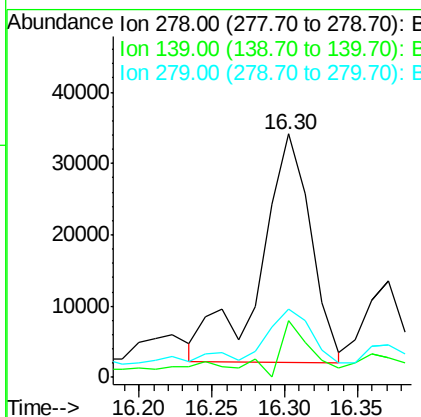
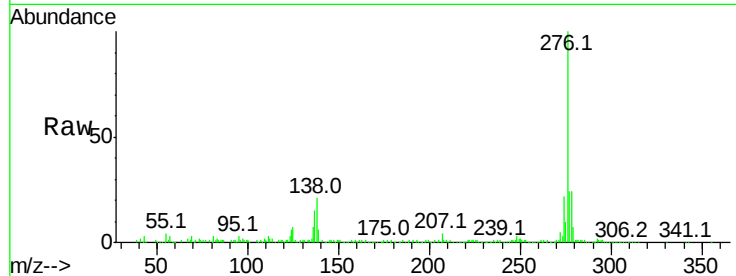
#90
Dibenzo(a,h)anthracene
Concen: 5.19 ng/mL
RT: 16.30 min Scan# 1270
Delta R.T. -0.03 min
Lab File: BF092267.D
Acq: 14 Jan 2017 3:06

Instrument :
BNA_F
ClientSampleId :
TOD-SB-01-0-2

Tot Ion	Ratio	Lower	Upper
278	100		
139	23.2	14.8	22.2#
279	28.1	19.8	29.6

Manual Integrations
APPROVED

Sohil
1/16/2017 8:39:24 AM



#91
Benzo(g,h,i)perylene
Concen: 14.23 ng/mL
RT: 16.67 min Scan# 1302
Delta R.T. -0.03 min
Lab File: BF092267.D
Acq: 14 Jan 2017 3:06

Tgt Ion	Ratio	Lower	Upper
276	100		
277	24.5	19.2	28.8
138	22.9	16.0	24.0

