

# Justification Letter

Date (23/09/2013)

BABT TCB  
Balfour House,  
Churchfield Road,  
Walton-on-Thames,  
Surrey,  
KT12 2TD

Dear Sir or Madam,

We,

Huawei Technologies Co., Ltd.  
Bantian, Longgang District, Shenzhen, 518129, China

hereby to do the Justification on original FCC application: LTE Wireless Gateway, B890-53, FCC ID: QISB890-53 as following:

B890-53 is a LTE Wireless Gateway, it is subscriber equipment in the WCDMA/LTE system, also supports wireless Internet accessing function, routing function, network address translation (NAT) function. The HSPA+/WCDMA frequency band is Band 2/5. The LTE frequency band includes Band 7. And the TX/RX band is 2400MHz~2483MHz for WLAN. B890-53 implements such functions as RF signal receiving/sending, WCDMA and LTE protocol processing, voice and data service etc. Externally it provides USB port interface, SIM card interface, four auto-sensing Ethernet interfaces and external antenna interface.

B890-66 (FCC ID: QISB890, Grant date: 2012-10-15) is a LTE Wireless Gateway, it is subscriber equipment in the WCDMA/LTE system, also supports wireless Internet accessing function, routing function, network address translation (NAT) function. The HSPA+/WCDMA frequency band is Band 2/4/5. The LTE frequency band includes Band 2/4/5/7/12/13/17. And the TX/RX band is 2400MHz~2483MHz for WLAN. B890-66 implements such functions as RF signal receiving/sending, WCDMA and LTE protocol processing, voice and data service etc. Externally it provides USB port interface, SIM card interface, four auto-sensing Ethernet interfaces and external antenna interface.

The difference between B890-53 and B890-66 (FCC ID: QISB890, Grant date: 2012-10-15):

The PCB layout of B890-66 and B890-53 is the same.

The difference between B890-66 and B890-53 is as follows:

1). B890-66 LTE frequency band includes Band 2/4/5/7/12/13/17.

But B890-53 has only band 7 and uses the different PA.

2.) B890-66 WCDMA band includes Band 2/4/5.

But B890-53 has only band 2/5 and uses the different PA.

The followed table is show the detailed different between the 2 Models.

	B890-66	B890-53
WCDMA band 2	Support	Support
WCDMA band 4	Support	Not support
WCDMA band 5	Support	Support
LTE Band 2	Support	Not support
LTE Band 4	Support	Not support
LTE Band 5	Support	Not support

LTE Band 7	Support	Support
LTE Band 12	Support	Not support
LTE Band 13	Support	Not support
LTE Band 17	Support	Not support
WLAN2400	Support	Support
antenna	the same	the same
Appearance	the same	the same
PCB layout	the same	the same

So in FCC application for B890-53 (FCC ID: QISB890-53),

Test data for WIFI is from report "SYBH(Z-RF)004092012-2008" in FCC application for B890-66 (FCC ID: QISB890, Grant date: 2012-10-15), and this data according to Part 15C remains valid and applicable and they are representative of the compliance of B890-53.

Test data for WCDMA/LTE is refer to new test report "SYBH(Z-RF)022082013-2001", and this data according to Part 22/24/27 are representative of the compliance of B890-53.

Test data for Part 15B Unintentional Radiator is refer to new test report "SYBH(Z-EMC)096082013-2", and this data according to Part 15B are representative of the compliance of B890-53.

New MPE report "SYBH(Z-SAR)020082013-2" demonstrate B890-53 comply with the RF exposure requirement.

Sincerely,

For and Behalf of:  
Huawei Technologies Co., Ltd.



Zhangxinghai  
EMC Laboratory Manager