

**Class 2 permissive change justification Letter**

Date (10/11/2017)

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 class 2 permissive change application justification on FCC application: Smart Phone, LON-L29, FCC ID: QISLON-L29, granted data: 11/15/2016 as following:

LON-L29 is subscriber equipment in the LTE/ WCDMA/GSM system. The LTE frequency band is Band I, Band II, Band III, Band IV, Band V, Band VII, Band VIII, Band IX, Band XII, Band XVII, Band XVIII ,Band XIX, Band XX, Band XXVI, Band XXVIII, Band XXIX, Band XXXVIII, Band XXXIX, Band XL and Band XLI. But only Band I, Band III, Band VII, Band VIII, Band XX, Band XXXVIII and Band XL test data included in this report. The HSUPA/HSDPA/UMTS frequency band is Band I, Band II, Band IV, Band V, Band VI, Band VIII and Band XIX, The GSM/GPRS/EDGE frequency band includes GSM850 and GSM900 and DCS1800 and PCS1900, The Mobile Phone implements such functions as RF signal receiving/transmitting, LTE/UMTS/GSM protocol processing, voice, video, MMS service, GPS, AGPS,NFC and WIFI etc. Externally it provides earphone port (to provide voice service) and dual USIM card interfaces. It also provides Bluetooth module to synchronize data between a PC and the phone, or to use the built-in modem of the phone to access the Internet with a PC, or to exchange data with other Bluetooth devices. There three changed points:

The detailed change information of C2PC application as below:

- 1 ) PA models changed, new model modified the power Bias, the overall performance of the product does not affect. This change only effect LTE band 2/4/7

Before	After	influencing Brands
Model : SKY78117-14  Description : RF Multi-functional Component, HB PAMID(w/ B7 DUP), 2300~2690MHz, LGA	Model : SKY78117-14A  Description : RF Multi-functional Component, HB PAMID(w/ B7 DUP) w/ B7 Gain improvement, 2300~2690MHz, LGA	LTE band7
Model : SKY78114-14  Description : RF Multi-functional Component, MB PAMID(w/ B1/2/3/4 Dup),1710~2025 MHz, LGA, Terminal Dedicated	Model : SKY78114-21  Description : RF Multi-functional Component, MB PAMID(w/ B1/2/3/4 Dup),1710~2025 MHz, LGA, Terminal Dedicated, but this change only affects B2/3/4.	LTE band 2/4/7

The change of PA fulfill below requirements of KDB178919 D01 III requirement

- 1) The new chip component is pin-for-pin compatible.

- 2) The new chip has the same basic function as the old chip, from an external perspective (internal circuitry may differ).
  - 3) No change in radio parameters has occurred.
  - 4) The same conditions apply when a small area (approximately the same area as the chip) of the PCB is replaced with an equivalent chip.
- 2 ) Adjust a capacitor of antenna, but the antenna gain is same as original, this change only effect GSM 850, but the maximum ERP/EIRP rules are not increase.

Change point	Influencing Bands
Adjust a capacitor of antenna, PCB and other components do not change	GSM 850

3 ) Just for SAR report. Delete one kind of optional battery ( Manufacture: Desay )

Name	Manufacture
Rechargeable Li-ion	SCUD
HB396689ECW	Sunwoda

Detailed description of the change please refer to below document:

So below new documents were submitted

- Tune-up Procedure
- Part List
- EMC test report
- RF test report for LTE band 2/4/7
- SAR test report
- SAR test setup photos
- EMC test setup photos
- RF test setup photos

So in this C2PC FCC application for Smart Phone, LON-L29, FCC ID: QISLON-L29

New Test report SZEM170600616801 for FCC Part 15B have been submitted, and this report according to Part 15B is valid and applicable and it is representative of the compliance of this change of the product.

New test report SYBH(Z-RF)011062017-2001 for LTE band 2/4/7 was submitted, the test data of LTE band 2/4/7 are new test data, the radiated spurious emission of other GSM/UMTS/LTE bands was retested, and the test result didn't worse than original test report.

New SAR test report SYBH(Z-SAR)013062017-2 had been submitted in this applicable, in this test report:

- 1) For LTE band 2/4/7 (main antenna and second antenna), new full SAR test is performed
  - 2) For other GSM/UMTS/LTE bands, SAR was repeated based on the worst case of original report SYBH(Z-SAR)004082016-2 for each frequency band and RF exposure condition.
- Other test data refer from original test report SYBH(Z-SAR)018112016-2, and this data remains valid and it is representative of the compliance of this change of the product.

Sincerely,

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



Zhangxinghai  
EMC Laboratory Manager