Chris Harvey

From: Jolin [zhanglin01609@huawei.com]
Sent: Thursday, October 29, 2009 8:40 AM
To: charvey-tcb@ccsemc.com; chris.harvey@ccsemc.com
Cc: claire.hoque@ccsemc.com; lucy.tsai@ccsemc.com; lcliu@huawei.com; kangying@huawei.com
Subject: Re: Huawei Technologies Co., Ltd, FCC ID: QISG6600, Assessment NO.: AN09T9710, AN09T9711 & AN09T9728, Notice#1
Importance: High
Attachments: G6600 FCC-modify.part1.rar

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Warning: Your file, G6600 FCC-modify.part1.rar/G6600 FCC-modify/HUAWEI G6600 FCC EMC/Test setup photos.pdf, is password-protected. It was not scanned by InterScan MSS.
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Hello Chris,

We had modified them, please check the attached or download on our service later.

Total:6 parts

1)----please check the" KDB 450824"
2)----please check the "HUAWEI G6600 FCC SAR"
3)----please check the "External Authorization Letter for FCC application(new Jan 72008) (2)"
4)----please check the "HUAWEI G6600 FCC EMC"
5)----please check the"bluetooth technology description" and "HUAWEI G6600 Declaration"
6)7)8)----please check the "HUAWEI G6600 FCC Bluetooth"

Thank you very much.

BR Jolin

> ----- Original Message -----
> **From:** charvey-tcb@ccsemc.com
> **To:** zhanglin01609@huawei.com
> **Cc:** chris.harvey@ccsemc.com ; claire.hoque@ccsemc.com ; lucy.tsai@ccsemc.com
> **Sent:** Wednesday, October 28, 2009 8:33 PM
> **Subject:** Huawei Technologies Co., Ltd, FCC ID: QISG6600, Assessment NO.: AN09T9710, AN09T9711 & AN09T9728, Notice#1
>
> Dear Jolin Zhang,
>
> You are listed as the Technical Contact for the above referenced TCB application. The following item(s) need(s) to be resolved before the review can be continued:

1. FCC has a KDB entry (#450824) regarding SAR PROBE CALIBRATION which states:
b) At 300 MHz to 3 GHz, DUT measurements should be within +/- 100 MHz of the probe calibration frequency. (however)

c) Measurements exceeding 50 % of these intervals, I.E.,
+/- 25 MHz, DUT f less than 300 MHz, OR
+/- 50 MHz, DUT f greater than or equal to 300 MHz,
SHALL APPLY THE FOLLOWING additional steps:
1) When the actual tissue dielectric parameters used for probe calibration are available (careful about some probe manuf. list only nominal or range on calib. cert.), the differences for relative permittivity and conductivity between probe calibration and routine measurements should each be less than or equal to 5 % while also satisfying the required +/- 5 % tolerances in target dielectric parameters.
2) When nominal tissue dielectric parameters are PROVIDED in the probe calibration data, the tissue dielectric parameters measured for routine measurements should be less than the target relative permittivity and higher than the target conductivity values, to minimize SAR underestimations. Otherwise, a thorough analysis of the effective frequency interval supported by the probe calibration and dielectric medium should be included in the SAR report to substantiate the test results - SEE ITEM d).
Alternatively, the measured 1-g SAR may be compensated with respect to +5 % tolerances in relative permittivity and
-5 % tolerances in conductivity, computed according to valid SAR sensitivity data, to reduce SAR underestimation and maintain conservativeness.

d) When thorough analysis is required for the additional steps, the following SHALL ALSO BE ADDRESSED BY THE DUT TEST LAB.
These other items can contribute to additional SAR differences, especially when the probe calibration, tissue dielectric parameters and device test frequencies are misaligned.
1) The probe conversion factor and its frequency response, with respect to the tissue dielectric media used during probe calibration and routine measurements, should be examined to determine if the effective frequency interval is adequate for the intended measurements to satisfy protocol requirements.
2) Measurements within the required frequency interval should satisfy an expanded probe calibration uncertainty
(k=2) less than or equal to 15 % for all measurement conditions.
3) When SAR is reported within 10 % of the SAR limit, differences in field conditions and effects of output power levels on signal modulation between probe calibration and routine measurements should be examined to determine probe calibration validity.
4) Probe isotropy should also be assessed by rotating the probe in 15 degree increments at the peak SAR location of the zoom scan and accounted for in the measurement uncertainty.

Because the Huawei probe Head and Body calibrations are performed at 1750MHz and 1950 MHz and the measurements are performed at 1850-1910 MHz, for the measurements

performed at 1850.2 MHz and 1880 MHz, additional steps described above are required for FCC compliance. Please submit this additional required calibration evaluation.

2. For a GPRS Class 12 transmission (near body) the duty cycle should be listed as 1:2.075 (not 1:2). Please revise the SAR report to address this correction of Duty Cycle.

3. Please provide an updated Letter of Authorization using the CCS EMC format.

4. The EMC Report for the Computer Peripheral portion application (equipment Class JBP) shows test setup with the phone tested by itself, and not connected into a minimum computer system required by ANSI C63.4:2003. Please submit a test report for the JBP application for testing this USB connected device as a Computer Peripheral.

5. The Bluetooth Operational Description indicates compliance with the pseudo-Random frequency requirement, but not with several other requirements of FCC 15.247. Please determine compliance with the following 15.247 required items and provide a declaration of compliance:
Is each channel used equally on average, based on the technical description?
Does the associated system receiver have a compliant input bandwidth, based on the measured 20 dB emission bandwidth?
Does the associated system receiver have the ability to hop in synchronization with the transmitter, based on the technical description?
Does the design of the frequency hopping system allow it to comply with all pertinent requirements when presented with a lengthy data stream?
Does the frequency hopping system comply with the non-coordination requirement?

6. The Bluetooth reports indicate that many of the tests of the Bluetooth transmitter were measured in accordance with the ANSI/TIA-603-C standard, which is not the appropriate standard for Bluetooth transmitters. Please ensure that this Bluetooth device was in fact tested in accordance with the required ANSI C63.4:2003 and revise the test report accordingly. (Please note that ANSI/TIA-603-C standard applies to licensed transmitters, such as the part 22/24 transmitter in this same handset device).

7. The Bluetooth report Appendix A through J do not seem to show data for the EDR operation. Please update these exhibits to include the plots and data for the EDR mode of operation.

8. Bluetooth report Appendix C shows one plot showing all (79) hopping channels. Please provide several plots showing sections of the span so that each hopping channel can be resolved. Also, please ensure that you provide data for the EDR mode and any other modes that may use different numbers of channels to ensure compliance in all modes of operation.

The items indicated above must be submitted before processing can continue on the above referenced application. Failure to provide the requested information within

30 days of the original e-mail date may result in application dismissal and forfeiture of the filing fee. Also, please note that partial responses increase processing time and should not be submitted. Any questions about the content of this correspondence should be directed to the e-mail address listed below the name of the sender.

Best regards,

Chris Harvey
Charvey-tcb@ccsemc.com