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Date: July 22, 2013  
PCTEST TCB/CB  
Div. of PCTEST Engineering Lab., Inc.  
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Subject: Samsung Electronics Co., Ltd.  
FCC ID: A3LSMC105

To Whom it May Concern

We attest the following regarding FCC ID: A3LSMC105

1. MPR is permanently implemented for all channel BWs, modulations, frequency bands and RB sizes:  
Supported channel BWs, modulations, frequency bands:
  - a. LTE Band 5 (Channel BW 1.4, 3, 5 & 10 MHz)/QPSK & 16QAM
2. MPR is implemented per 3GPP TS 36.101. With the MPR permanently implemented, this device will never operate higher than 23.5 dBm in QPSK and 16QAM.
3. We confirm the specific MPR targets and tolerances shown below
  - 1) The LTE MPR Targets for Band 5 are:

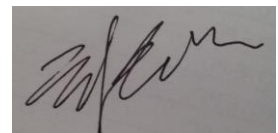
| Band       | Bandwidth [MHz] | Modulation | RB Size | RB Offset | Target MPR [dB] | Maximum MPR Allowed per 3GPP [dB] |
|------------|-----------------|------------|---------|-----------|-----------------|-----------------------------------|
| LTE Band 5 | 1.4             | QPSK       | 1       | 0         | 0               | 0                                 |
|            | 1.4             | QPSK       | 1       | 2         | 0               | 0                                 |
|            | 1.4             | QPSK       | 1       | 5         | 0               | 0                                 |
|            | 1.4             | QPSK       | 3       | 0         | 0               | 0                                 |
|            | 1.4             | QPSK       | 3       | 2         | 0               | 0                                 |
|            | 1.4             | QPSK       | 3       | 3         | 0               | 0                                 |
|            | 1.4             | QPSK       | 6       | 0         | 1               | 0-1                               |
|            | 1.4             | 16-QAM     | 1       | 0         | 1               | 0-1                               |
|            | 1.4             | 16-QAM     | 1       | 2         | 1               | 0-1                               |
|            | 1.4             | 16-QAM     | 1       | 5         | 1               | 0-1                               |
|            | 1.4             | 16-QAM     | 3       | 0         | 1               | 0-1                               |
|            | 1.4             | 16-QAM     | 3       | 2         | 1               | 0-1                               |
|            | 1.4             | 16-QAM     | 3       | 3         | 1               | 0-1                               |
|            | 1.4             | 16-QAM     | 6       | 0         | 1               | 0-1                               |
|            | 3               | QPSK       | 1       | 0         | 0               | 0                                 |
|            | 3               | QPSK       | 1       | 7         | 0               | 0                                 |
|            | 3               | QPSK       | 1       | 14        | 0               | 0                                 |
|            | 3               | QPSK       | 8       | 0         | 1               | 0-1                               |
|            | 3               | QPSK       | 8       | 4         | 1               | 0-1                               |
|            | 3               | QPSK       | 8       | 7         | 1               | 0-1                               |
|            | 3               | QPSK       | 15      | 0         | 1               | 0-1                               |

|    |        |    |    |   |     |
|----|--------|----|----|---|-----|
| 3  | 16-QAM | 1  | 0  | 1 | 0-1 |
| 3  | 16-QAM | 1  | 7  | 1 | 0-1 |
| 3  | 16-QAM | 1  | 14 | 1 | 0-1 |
| 3  | 16-QAM | 8  | 0  | 2 | 0-2 |
| 3  | 16-QAM | 8  | 4  | 2 | 0-2 |
| 3  | 16-QAM | 8  | 7  | 2 | 0-2 |
| 3  | 16-QAM | 15 | 0  | 2 | 0-2 |
| 5  | QPSK   | 1  | 0  | 0 | 0   |
| 5  | QPSK   | 1  | 12 | 0 | 0   |
| 5  | QPSK   | 1  | 24 | 0 | 0   |
| 5  | QPSK   | 12 | 0  | 1 | 0-1 |
| 5  | QPSK   | 12 | 6  | 1 | 0-1 |
| 5  | QPSK   | 12 | 13 | 1 | 0-1 |
| 5  | QPSK   | 25 | 0  | 1 | 0-1 |
| 5  | 16-QAM | 1  | 0  | 1 | 0-1 |
| 5  | 16-QAM | 1  | 12 | 1 | 0-1 |
| 5  | 16-QAM | 1  | 24 | 1 | 0-1 |
| 5  | 16-QAM | 12 | 0  | 2 | 0-2 |
| 5  | 16-QAM | 12 | 6  | 2 | 0-2 |
| 5  | 16-QAM | 12 | 13 | 2 | 0-2 |
| 5  | 16-QAM | 25 | 0  | 2 | 0-2 |
| 10 | QPSK   | 1  | 0  | 0 | 0   |
| 10 | QPSK   | 1  | 25 | 0 | 0   |
| 10 | QPSK   | 1  | 49 | 0 | 0   |
| 10 | QPSK   | 25 | 0  | 1 | 0-1 |
| 10 | QPSK   | 25 | 12 | 1 | 0-1 |
| 10 | QPSK   | 25 | 25 | 1 | 0-1 |
| 10 | QPSK   | 50 | 0  | 1 | 0-1 |
| 10 | 16-QAM | 1  | 0  | 1 | 0-1 |
| 10 | 16-QAM | 1  | 25 | 1 | 0-1 |
| 10 | 16-QAM | 1  | 49 | 1 | 0-1 |
| 10 | 16-QAM | 25 | 0  | 2 | 0-2 |
| 10 | 16-QAM | 25 | 12 | 2 | 0-2 |
| 10 | 16-QAM | 25 | 25 | 2 | 0-2 |
| 10 | 16-QAM | 50 | 0  | 2 | 0-2 |

4. A-MPR was disabled for all SAR test samples for SAR testing purposes only.
5. This device does not implement power back-off schemes for SAR compliance.
6. We attest to the Simultaneous Tx listed on Operational Description to be accurate and furthermore, any other simultaneous Tx combinations not listed on the SAR report are not supported by software/hardware design.

Should you have any questions or comments concerning the above, please contact the undersigned.

Sincerely,



**Engineer**

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