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Date: July 13, 2012  
PCTEST TCB/CB  
Div. of PCTEST Engineering Lab., Inc.  
660-B Dobbin Road  
Columbia, MD 21045

Subject: Samsung Electronics Co., Ltd.  
FCC ID: A3LSGHI547

To Whom it May Concern

We attest the following regarding FCC ID: A3LSGHI547

1. MPR is permanently implemented for all channel bandwidths, modulations, frequency bands and RB sizes:  
Supported channel bandwidths, modulations, frequency bands:
  - a. LTE Band 2 (Channel BW 5, 10 MHz)/QPSK & 16AM
  - b. LTE Band 4 (Channel BW 5, 10, 15 MHz)/QPSK & 16AM
  - c. LTE Band 5 (Channel BW 5, 10 MHz)/QPSK & 16AM
  - d. LTE Band 17 (Channel BW 5, 10 MHz)/QPSK & 16AM
2. MPR is implemented per 3GPP TS 36.101. With MPR permanently implemented, this device will never operate in QPSK and 16QAM at a higher power than listed in the corresponding tune-up procedure.
3. We confirm the specific MPR targets and tolerances shown below:
  - 1) The LTE MPR Targets for Band 2 (PCS) are:

| Bandwidth [MHz] | Modulation | RB Size | RB Offset | Target MPR [dB] | Maximum MPR Allowed per 3GPP [dB] |
|-----------------|------------|---------|-----------|-----------------|-----------------------------------|
| 5               | QPSK       | 1       | 0         | 0               | 0                                 |
| 5               | QPSK       | 1       | 24        | 0               | 0                                 |
| 5               | QPSK       | 12      | 6         | 1               | 0-1                               |
| 5               | QPSK       | 25      | 0         | 1               | 0-1                               |
| 5               | 16-QAM     | 1       | 0         | 1               | 0-1                               |
| 5               | 16-QAM     | 1       | 24        | 1               | 0-1                               |
| 5               | 16-QAM     | 12      | 6         | 2               | 0-2                               |
| 5               | 16-QAM     | 25      | 0         | 2               | 0-2                               |
| 10              | QPSK       | 1       | 0         | 0               | 0                                 |
| 10              | QPSK       | 1       | 49        | 0               | 0                                 |
| 10              | QPSK       | 25      | 12        | 1               | 0-1                               |
| 10              | QPSK       | 50      | 0         | 1               | 0-1                               |
| 10              | 16QAM      | 1       | 0         | 1               | 0-1                               |
| 10              | 16QAM      | 1       | 49        | 1               | 0-1                               |
| 10              | 16QAM      | 25      | 12        | 2               | 0-2                               |
| 10              | 16QAM      | 50      | 0         | 2               | 0-2                               |

2) The LTE MPR Targets for Band 4 (AWS) are:

| Bandwidth [MHz] | Modulation | RB Size | RB Offset | Target MPR [dB] | Maximum MPR Allowed per 3GPP [dB] |
|-----------------|------------|---------|-----------|-----------------|-----------------------------------|
| 5               | QPSK       | 1       | 0         | 0               | 0                                 |
| 5               | QPSK       | 1       | 24        | 0               | 0                                 |
| 5               | QPSK       | 12      | 6         | 1               | 0-1                               |
| 5               | QPSK       | 25      | 0         | 1               | 0-1                               |
| 5               | 16-QAM     | 1       | 0         | 1               | 0-1                               |
| 5               | 16-QAM     | 1       | 24        | 1               | 0-1                               |
| 5               | 16-QAM     | 12      | 6         | 2               | 0-2                               |
| 5               | 16-QAM     | 25      | 0         | 2               | 0-2                               |
| 10              | QPSK       | 1       | 0         | 0               | 0                                 |
| 10              | QPSK       | 1       | 49        | 0               | 0                                 |
| 10              | QPSK       | 25      | 12        | 1               | 0-1                               |
| 10              | QPSK       | 50      | 0         | 1               | 0-1                               |
| 10              | 16QAM      | 1       | 0         | 1               | 0-1                               |
| 10              | 16QAM      | 1       | 49        | 1               | 0-1                               |
| 10              | 16QAM      | 25      | 12        | 2               | 0-2                               |
| 10              | 16QAM      | 50      | 0         | 2               | 0-2                               |
| 15              | QPSK       | 1       | 0         | 0               | 0                                 |
| 15              | QPSK       | 1       | 74        | 0               | 0                                 |
| 15              | QPSK       | 36      | 18        | 1               | 0-1                               |
| 15              | QPSK       | 75      | 0         | 1               | 0-1                               |
| 15              | 16QAM      | 1       | 0         | 1               | 0-1                               |
| 15              | 16QAM      | 1       | 74        | 1               | 0-1                               |
| 15              | 16QAM      | 36      | 18        | 2               | 0-2                               |
| 15              | 16QAM      | 75      | 0         | 2               | 0-2                               |

3) The LTE MPR Targets for Band 5 (Cell) are:

| Bandwidth [MHz] | Modulation | RB Size | RB Offset | Target MPR [dB] | Maximum MPR Allowed per 3GPP [dB] |
|-----------------|------------|---------|-----------|-----------------|-----------------------------------|
| 5               | QPSK       | 1       | 0         | 0               | 0                                 |
| 5               | QPSK       | 1       | 24        | 0               | 0                                 |
| 5               | QPSK       | 12      | 6         | 1               | 0-1                               |
| 5               | QPSK       | 25      | 0         | 1               | 0-1                               |
| 5               | 16-QAM     | 1       | 0         | 1               | 0-1                               |
| 5               | 16-QAM     | 1       | 24        | 1               | 0-1                               |
| 5               | 16-QAM     | 12      | 6         | 2               | 0-2                               |
| 5               | 16-QAM     | 25      | 0         | 2               | 0-2                               |
| 10              | QPSK       | 1       | 0         | 0               | 0                                 |
| 10              | QPSK       | 1       | 49        | 0               | 0                                 |
| 10              | QPSK       | 25      | 12        | 1               | 0-1                               |
| 10              | QPSK       | 50      | 0         | 1               | 0-1                               |
| 10              | 16QAM      | 1       | 0         | 1               | 0-1                               |
| 10              | 16QAM      | 1       | 49        | 1               | 0-1                               |
| 10              | 16QAM      | 25      | 12        | 2               | 0-2                               |
| 10              | 16QAM      | 50      | 0         | 2               | 0-2                               |

4) The LTE MPR Targets for Band 17 are:

| Bandwidth<br>[MHz] | Modulation | RB Size | RB Offset | Target MPR<br>[dB] | Maximum<br>MPR Allowed<br>per 3GPP [dB] |
|--------------------|------------|---------|-----------|--------------------|-----------------------------------------|
| 5                  | QPSK       | 1       | 0         | 0                  | 0                                       |
| 5                  | QPSK       | 1       | 24        | 0                  | 0                                       |
| 5                  | QPSK       | 12      | 6         | 1                  | 0-1                                     |
| 5                  | QPSK       | 25      | 0         | 1                  | 0-1                                     |
| 5                  | 16-QAM     | 1       | 0         | 1                  | 0-1                                     |
| 5                  | 16-QAM     | 1       | 24        | 1                  | 0-1                                     |
| 5                  | 16-QAM     | 12      | 6         | 2                  | 0-2                                     |
| 5                  | 16-QAM     | 25      | 0         | 2                  | 0-2                                     |
| 10                 | QPSK       | 1       | 0         | 0                  | 0                                       |
| 10                 | QPSK       | 1       | 49        | 0                  | 0                                       |
| 10                 | QPSK       | 25      | 12        | 1                  | 0-1                                     |
| 10                 | QPSK       | 50      | 0         | 1                  | 0-1                                     |
| 10                 | 16QAM      | 1       | 0         | 1                  | 0-1                                     |
| 10                 | 16QAM      | 1       | 49        | 1                  | 0-1                                     |
| 10                 | 16QAM      | 25      | 12        | 2                  | 0-2                                     |
| 10                 | 16QAM      | 50      | 0         | 2                  | 0-2                                     |

4. A-MPR was disabled for all SAR test samples for SAR testing purposed only.

5. We attest to the simultaneous Tx listed on the 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,



JAHEYOUNG JIN

Engineer

Samsung Electronics Co., Ltd.