



ELECTRONICS

SAMSUNG ELECTRONICS AMERICA, INC.
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Date: November 18, 2011

PCTEST TCB/CB
 Div. of PCTEST Engineering Lab., Inc.
 6660-B Dobbin Road
 Columbia, MD 21045

SUBJECT: Samsung Electronics Co., Ltd.
FCC ID: A3LSCHR920

To Whom It May Concern:

We attest to the following for this application:

1. MPR is permanently implemented for all channel BWs, modulations, frequency bands and RB sizes:
 Supported channel BWs, modulations, frequency bands:
 a. LTE Band 2 & 4(Channel BW 1.4 & 3 & 5 MHz)/QPSK & 16QAM
2. MPR is implemented per 3GPP TS 36.101. With the MPR permanently implemented, this device will never operate at 23.5dBm or higher in QPSK and at 22.5dBm or higher in 16QAM.
3. We confirm the specific MPR targets and tolerances shown below

LTE Band 2 (PCS)								
Frequency [MHz]	Uplink Channel Number	BW [MHz]	Modulation	RB Size	RB Offset	Target Power [dBm]	MPR Target	MPR Allowed by 3GPP
Low 1850.7 Mid 1880.0 High 1909.3	Low 18607 Mid 18900 High 19193	1.4	QPSK	1	0	23+0.5	0	0
				1	5	23+0.5	0	0
				3	2	23+0.5	0	0
				6	0	22+0.5	1	0-1
			16-QAM	1	0	22+0.5	1	0-1
				1	5	22+0.5	1	0-1
				3	2	22+0.5	1	0-1
				6	0	21+0.5	2	0-2
Low 1851.5 Mid 1880.0 High 1908.5	Low 18615 Mid 18900 High 19185	3	QPSK	1	0	23+0.5	0	0
				1	14	23+0.5	0	0
				8	4	22+0.5	1	0-1
				15	0	22+0.5	1	0-1
			16-QAM	1	0	22+0.5	1	0-1
				1	14	22+0.5	1	0-1
				8	4	21+0.5	2	0-2
				15	0	21+0.5	2	0-2
Low 1852.5 Mid 1880.0 High 1907.5	Low 18625 Mid 18900 High 19175	5	QPSK	1	0	23+0.5	0	0
				1	24	23+0.5	0	0
				12	6	22+0.5	1	0-1
				25	0	22+0.5	1	0-1
			16-QAM	1	0	22+0.5	1	0-1
				1	24	22+0.5	1	0-1
				12	6	21+0.5	2	0-2
				25	0	21+0.5	2	0-2

LTE Band 4 (AWS)								
Frequency [MHz]	Uplink Channel Number	BW [MHz]	Modulation	RB Size	RB Offset	Target Power [dBm]	MPR Target	MPR Allowed by 3GPP
Low 1710.7 Mid 1732.5 High 1754.3	Low 19957 Mid 20175 High 20393	1.4	QPSK	1	0	23+0.5	0	0
				1	5	23+0.5	0	0
				3	2	23+0.5	0	0
				6	0	22+0.5	1	0-1
			16-QAM	1	0	22+0.5	1	0-1
				1	5	22+0.5	1	0-1
				3	2	22+0.5	1	0-1
Low 1711.5 Mid 1732.5 High 1753.5	Low 19965 Mid 20175 High 20385	3	QPSK	6	0	21+0.5	2	0-2
				1	0	23+0.5	0	0
				1	14	23+0.5	0	0
				8	4	22+0.5	1	0-1
			16-QAM	15	0	22+0.5	1	0-1
				1	0	22+0.5	1	0-1
				1	14	22+0.5	1	0-1
Low 1712.5 Mid 1732.5 High 1752.5	Low 19975 Mid 20175 High 20375	5	QPSK	8	4	21+0.5	2	0-2
				15	0	21+0.5	2	0-2
				1	0	23+0.5	0	0
				1	24	23+0.5	0	0
			16-QAM	12	6	22+0.5	1	0-1
				25	0	22+0.5	1	0-1
				1	0	22+0.5	1	0-1
			QPSK	1	24	22+0.5	1	0-1
				12	6	21+0.5	2	0-2
				25	0	21+0.5	2	0-2
			16-QAM	1	0	23+0.5	0	0
				1	24	23+0.5	0	0
				12	6	22+0.5	1	0-1
				25	0	21+0.5	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,



Taekkyun Choi, Senior Engineer
Samsung Electronics,.