



ELECTRONICS

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Date: February 9, 2012
PCTEST TCB/CB
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Subject: Samsung Electronics Co., Ltd.
FCC ID: A3LSCHLC11R

To Whom it May Concern

We attest the following regarding FCC ID: A3LSCHLC11R

1. MPR is permanently implemented for all channel BWs, modulations , frequency bands and RB sizes
- Supported channel BWs, modulations, frequency bands:
 - a. LTE Band 12(Channel BW 5, 10 MHz)/QPSK & 16QAM
 - b. LTE Band 5(Channel BW 1.4, 3, 5 MHz)/QPSK & 16QAM
 - c. LTE Band 4(Channel BW 5, 10 MHz)/QPSK & 16QAM
 - d. LTE Band 2(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 higher than 23dBm in QPSK and 22dBm in 16QAM for LTE.
3. A-MPR was disabled for all SAR test samples for SAR testing purposes only.

1) The LTE MPR Targets for Band 12 are:

Band	Bandwidth [MHz]	Modulation	RB Size	RB Offset	Target MPR [dB]	Maximum MPR Allowed per 3GPP [dB]
LTE Band 12	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	16-QAM	1	0	1	0-1
	10	16-QAM	1	49	1	0-1
	10	16-QAM	25	12	2	0-2
	10	16-QAM	50	0	2	0-2

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

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

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

Band	Bandwidth [MHz]	Modulation	RB Size	RB Offset	Target MPR [dB]	Maximum MPR Allowed per 3GPP [dB]
LTE Band 4	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	16-QAM	1	0	1	0-1
	10	16-QAM	1	49	1	0-1
	10	16-QAM	25	12	2	0-2
	10	16-QAM	50	0	2	0-2

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

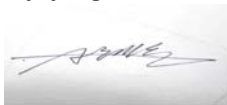
Band	Bandwidth [MHz]	Modulation	RB Size	RB Offset	Target MPR [dB]	Maximum MPR Allowed per 3GPP [dB]
Band 2	1.4	QPSK	1	0	0	0
	1.4	QPSK	1	5	0	0
	1.4	QPSK	3	2	0	0
	1.4	QPSK	6	0	1	0-1
	1.4	16-QAM	1	0	1	0-1
	1.4	16-QAM	1	5	1	0-1
	1.4	16-QAM	3	2	1	0-1
	1.4	16-QAM	6	0	2	0-2
	3	QPSK	1	0	0	0
	3	QPSK	1	14	0	0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

5) The Simultaneous Transmission Scenarios are described in the following table:

No.	Capable Transmit Configurations	Hot Spot	Note
		FCC KDB 941225 D06 edges/sides	
1	Cell/PCS CDMA/EVDO Data + WiFi 2.4GHz	Yes	Hotspot
2	LTE Band 2/4/5/12 Data + WIFI 2.4 GHz	Yes	4G Hotspot
3	Cell/PCS CDMA/EVDO Data + LTE Band 2/4/5/12 Data	No	N/S by Hardware
4	Cell/PCS CDMA/EVDO Data + LTE Band 2/4/5/12 Data + 2.4 GHz WIFI	No	N/S by Hardware

Sincerely,

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