



May 9, 2012

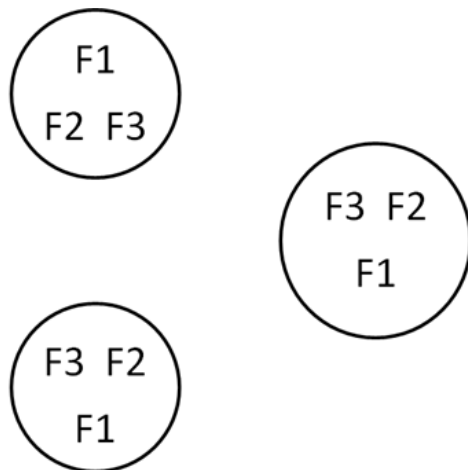
Federal Communication Commission
Office of Engineering and Technology
USA

RE: FCC ID:LKTCOMPACT3X
Form 731 CN: EA542527
Subject: CRN 41766

Dear Mr. Chen,

Please find attached our response according to your questions.

1) You asked to coexist with similar systems. Our system may work properly with different BSs in the same coverage area by using frequency reuse 3 and directional antennas. An example of frequency 3 distribution is shown in the following. As you know we have 5 frequencies of 5 MHz each in arrange of 3.65 – 3.675 GHz.



2) The maximum power supported by the hardware is up to 27 dBm, but it is limited by the software to the maximum values stated in section 7.2 of the test report and not available to the end user.

The system uses 4 receive antennas and up to 2 transmit antennas. Both Tx channels transmit uncorrelated information. Two transmit antennas are cross polarized and based on 662911 D02 MIMO with Cross-Polarized Antennas v01, EIRP and EIRP power density limits are calculated as the single output power with addition of antenna gain- no further corrections required as appears in section 7.2 of the test report.

MPE is calculated as the total output power with addition of antenna gain, 3 dB higher than the single RF chain Tx power as orthogonal polarizations cause superposition of fields within human body and cause higher exposure/heating that should be taken into account. Adjusted file “RF_Env_evaluation_22854_rev1” uploaded on May 9, 2012.

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