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ETCB

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RE: LXE Inc. SAR test report

FCC ID: KDZLXE4831P
IC UPN: 1995B-4831

Attention: Mark Briggs

SAR Report – Correlation of Powers

	Powers Measured During EMC Testing		Power in SAR report	Power in SAR report	Power in SAR report	Power in SAR report
	Reported	2 nd Power	(main/aux) (MX7)	(main/aux) (MX3X)	(main/aux) (MX8)	(main/aux) (HX2)
802.11b	23.8	14.9	15.3/14.9	15.3/15.1	15.6/14.8	15.6/14.8
802.11g	24.1	10.9	11.2/11.1	11.2/11.2	11.5/11.3	11.5/11.3
5.2 GHz 802.11a	13.9	12.8	11.5/12.9	11.5/12.9	11.3/12.9	11.3/12.9
5.7 GHz 802.11a	15.6	7.5	6.5/7.5	6.5/7.5	6.5/7.5	6.5/7.5

The powers listed in the table above are in dBm. The values detailed in the EMC report (“Reported” column) were taken using a combination of the UNII power measurement methods. There is a notation below the power tables in the test data that detail the particular method used. These measurements were peak in nature.

In addition, power was measured during EMC testing on the aux power port using an average power meter, and that measurement is indicated by the 2nd power measurement. The discrepancy between the two is due to the different measurement techniques (peak versus average).

This average power meter measurement was used during SAR testing to match powers with the EMC test report (during SAR testing, an average power meter was used to measure output power). The power measured during SAR testing was within 0.5dB of the average power measured during EMC testing.

SAR Report – Grid Size For Final measurements

For \leq 3.0 GHz, the x&y lateral steps must be between 5-8mm per OET Bulletin 65 Supp. C page 49.

For \geq 4.5 GHz, the x&y lateral steps must be \leq 4.0 mm per FCC OET Guideline "SAR Measurement Requirements for 3 - 6 GHz."

On page 6 of all four SAR reports, the last paragraph describes the volume size for the zoom scan. To get the step distance, you take the x&y distance and divide by the number of steps. For the 2.45 GHz band, the distance is 32 mm divided by 5 which gives a step of **6.4 mm**. For the 5 GHz bands, you would take the distance of 24 mm and divide by 7 to get **3.43 mm**. Both lateral steps are within the specifications of the FCC for the frequency band tested.

SAR Report – Cover Page

The cover pages incorrectly include the frequency range 5260 – 5320 MHz for the transmitter ... this band is not supported and was not tested.

Regards,



Mark Hill
EMC Staff Engineer