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21 February 2011

Attention: Application Examiner/Reviewing Engineer

Re: 5.8 GHz DTS application (composite application)
Applicant: Alvarion Ltd.
FCC IDs: LKT-EXTR-50

To whom it may concern,

The referenced application is for a 5.8 GHz DTS base station using the 802.16e – based WiMAX protocol. This application completes a two-part 5.4 GHz U-NII and 5.8 GHz DTS composite application. The U-NII application was submitted in April 17, 2009 (EA373213). Operation in the different frequency ranges is achieved by software settings only.

This radio's hardware is 100% identical to that of previously granted radio FCC ID: LKT-EXTR-58. The U-NII band is software enabled, no other changes are made. Test reports for LKT-EXTR-58 are representative and applicable to the DTS portion of LKT-EXTR-50, and are being presented as evidence of compliance to the test requirements, in accordance with the provisions in KDB publication 996369.

For DTS operation, emission bandwidths of 5MHz, 10 MHz, and 20 MHz are supported.

For 5 MHz channel bandwidth operation:

Maximum total power in MIMO mode: 0.944 watts (29.75 dBm)
Maximum total power in SISO mode: 0.487 watts (26.9 dBm)

For 10 MHz channel bandwidth operation:

Maximum total power in MIMO mode: 0.926 watts (29.67 dBm)
Maximum total power in SISO mode: 0.458 watts (26.61 dBm)

For 20 MHz channel bandwidth operation:

Maximum total power in MIMO mode: 0.663 watts (28.22 dBm),
Maximum total power in SISO mode: 0.386 watts (25.86 dBm).

Three antennas are currently supported:

8 dBi external omni antenna, 15.5 dBi internal slant antenna, 17dBi external panel antenna

The radio system is professionally installed. RF power to antennas is adjusted to keep eirp levels under the maximum values calculated for each emission bandwidth.

If you have questions or need further information, please contact the undersigned.
Sincerely,



THOMAS N. COKENIAS
EMC Consultant/Agent for Alvarion Ltd.