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12.11.2008
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FCC-ID : VGX 1213 / VGX 1214

Maximum Permissible Exposure calculation for W-LAN

Dear Mr. Brandhorst,

please find here our Maximum Permissible Exposure calculations for the
JLT1213 / JLT1214 device.

Best Regards



Holger Leutfeld



Maximum Permissible Exposure

(as specified in Table 1B of 47 CFR 1.1310 – Limits for Maximum Permissible Exposure (MPE), Limits for General Population/Uncontrolled Exposure)

<i>Frequency range (MHz)</i>	<i>Power density (mW/cm²)</i>
300 – 1,500	f/1500
1,500 – 100,000	1.0

Calculations 2400-2483.5 MHz band

Maximum peak output power at antenna:

28,49 dBm (706,32 mW)

Maximum peak output power (all three modules transmitting):

28,49 dBm (706,32 mW)

Prediction distance **R**: 20 cm
Prediction frequency: 2402 MHz

Prediction Antenna Gain **G**: 0.0 dBi

MPE limit **S**: 1 mW/cm²

Equation OET bulletin 65, page 18, edition 97-01: $S = P \cdot G / (4\pi R^2)$

S = power density

P = power input to the antenna

G = power gain of the antenna in the direction of interest relative to an isotropic radiator

R = distance to the centre of radiation of the antenna

Maximum permissible power density: **0.2305 mW/cm²**