US Tech FCC ID: Test Report Number: Issue Date: Customer:

Model:

FCC Part 15.247 UJX-ROAMMOD0001 12-0300 July 25, 2012 Acuity Brands ROAMMOD0001

Maximum Public Exposure to RF (MPE) CFR 15.247 (i)

The maximum exposure level to the public from the RF power of the EUT shall not exceed a power density, **S**, of 1 mW/cm² at a distance, d, of 20 cm from the EUT.

Therefore, for:

Antenna 1- MICA/PCB

Peak Power (Watts) = 0.094 (from Table 13 of Test Report) Gain of Transmit Antenna = $1.9 \text{ dB}_i = 1.549$, numeric (from Table 4 of Test Report)

d = Distance = 20 cm = 0.2 m

S = (PG/ $4\pi d^2$) = EIRP/4A = 0.094 (1.549)/4* π *0.2*0.2 = 0.1456/0.503 = 0.2895 w/m² = (0.2895 W/m²) (1m²/W) (0.1 mW/cm²) = 0.02895 mW/cm²

which is << less than 1 mW/cm²

Antenna 2- Monopole

Peak Power (Watts) = 0.094 (from Table 13 of Test Report) Gain of Transmit Antenna = $5.0 \text{ dB}_i = 3.162$, numeric (from Table 4 of Test Report)

d = Distance = 20 cm = 0.2 m

 $\begin{array}{l} \textbf{S} = (PG/\ 4\pi d^2) = EIRP/4A = 0.094\ (3.162)/4^*\pi^*0.2^*0.2\\ = 0.2972/0.503 = 0.5909\ w/m^2\\ = (0.5909\ W/m^2)\ (1m^2/W)\ (0.1\ mW/cm^2)\\ = 0.05909\ mW/cm^2 \end{array}$

which is << less than 1 mW/cm²

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Antenna 3-Integral Dipole

Peak Power (Watts) = 0.094 (from Table 13 of Test Report) Gain of Transmit Antenna = $2.0 \text{ dB}_i = 1.585$, numeric (from Table 4 of Test Report)

d = Distance = 20 cm = 0.2 m

 $\mathbf{S} = (PG/4\pi d^2) = EIRP/4A = 0.094 (1.585)/4*\pi*0.2*0.2$ =0.1490/0.503 = 0.2962 w/m² = (0.2960 W/m²) (1m²/W) (0.1 mW/cm²) = 0.02960 mW/cm²

which is << less than 1 mW/cm²