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

Maximum Public Exposure to RF (MPE) CFR 15.247 (i), CFR 1.1310 (e) & RSS-102, 2.5.2

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:

2.4 GHz WiFi:

Peak Power (dBm) = 17.21 dBm Peak Power (Watts) = 0.053 W Gain of Transmit Antenna = 2.8 dB_i = 1.9, numeric d = Distance = 20 cm = 0.2 m

> **S** = (PG/ $4\pi d^2$) = EIRP/4A = 0.053(1.9)/4* π *0.2*0.2 =0.1007/0.5030 = 0.2002 w/m² = (0.2002 W/m²) (1m²/W) (0.1 mW/cm²) = 0.02002 mW/cm²

which is << less than 1 mW/cm²

RSS-102, 2.5.2 Compliance for 2.4 GHz WiFi:

At or above 300 MHz and below 6 GHz and the source-based, time-averaged maximum e.i.r.p. of the device is equal to or less than $1.31 \times 10^{-2} f^{0.6834}$ W (adjusted for tune-up tolerance), where *f* is in MHz;

 $1.31 * 10^{-2*} 2440^{0.6834}$ = 2.7 W EUT max EIRP = 17.2 dBm + (2.8 dBi) = 20.0 dBm EIRP = 0.100 W Which is << than 2.7 W US Tech FCC ID: IC: Test Report Number: Issue Date: Customer: Model: FCC Part 15/IC RSS Certification 2ADCB-ACWIFI001 6715A-ACWIFI001 16-0139 September 23, 2016 Acuity Brands ACWIFI001

Maximum Public Exposure to RF (MPE) CFR 1.1310 (e)

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:

5 GHz WiFi:

Peak Power (dBm) = 17.25 dBm Peak Power (Watts) = 0.053 W Gain of Transmit Antenna = 3.38 dB_i = 2.18, numeric d = Distance = 20 cm = 0.2 m

> $S = (PG/ 4\pi d^2) = EIRP/4A = 0.053(2.18)/4^*\pi^*0.2^*0.2$ =0.1155/0.5030 = 0.2297 w/m² = (0.2297 W/m²) (1m²/W) (0.1 mW/cm²) = 0.02297 mW/cm²

which is << less than 1 mW/cm²

RSS-102, 2.5.2 Compliance for 5 GHz WiFi:

At or above 300 MHz and below 6 GHz and the source-based, time-averaged maximum e.i.r.p. of the device is equal to or less than $1.31 \times 10^{-2} f^{0.6834}$ W (adjusted for tune-up tolerance), where *f* is in MHz;

 $1.31 * 10^{-2*} 5180^{0.6834}$ = 4.5 W EUT max EIRP = 17.5 dBm + (3.38 dBi) = 20.88 dBm EIRP = 0.122 W Which is << than 4.5 W

All calculations performed by: Date: 12/8/2016 Test Engineer: George Yang

Signature: