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

RF Exposure

The Maximum Exposure level to the Public (MPE) 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:

Measured maximum output power: 19.62 dBm Highest Gain Antenna (Dipole antenna) = 2.0 dBi

Peak Power (Watts) = .092 (measured highest output power) Gain of Transmit Antenna = 2 dB_i = 1.58, numeric (from Table 4 of Test

Report)

 $d = Distance = 20 cm = 0.2 m \\ S = (PG/ 4\pi d^2) = EIRP/4A = (.092*1.58)/4*\pi*0.2*0.2 \\ = .1453/.5027 = .2891 W/m^2 \\ = (W/m^2) (1m^2/W) (0.1 mW/cm^2) \\ = .02891 mW/cm^2 \\ which is < less than 1.0 mW/cm^2$

RSS-102 (2.5.2)

The maximum exposure level to the public from the RF power of the EUT shall not exceed a source-based, time-averaged maximum EIRP based on the calculation below at a distance of 20 cm from the EUT:

Measured maximum output power of EUT: 19.62 dBm Highest Gain Antenna (Dipole antenna) = 2 dBi

EIRP= 21.62 dBm = 145.21 mW (worst case)

The RF Exposure Limit per RSS-102 (2.5.2) is calculated below:

 $(1.31^{10^{-2}}) \times ((2440 \text{MHz})^{0.6834}) = 2.7 \text{ W at} > 20 \text{ cm}$

The measured EIRP is less than the RF Exposure limit.

145.21 mW << 2.7 W

Test Date: July 18, 2016

Calculation B Name: George Yang Signature: