MPE CALCULATION (FCC ID: 2ARO6INV-CC1312R1)

RF Exposure Requirements:RF Radiation Exposure Limits:RF Radiation Exposure Guidelines:EUT Frequency Band:Limits for General Population/Uncontrolled Exposure in the band of:Power Density Limit:Equation: $S = PG / 4\pi R^2$ or $R = \sqrt{PG} / 4\pi S$
Where, S = Power Density

R = distance to the center of radiated antenna

P = Power Input to Antenna

G = Antenna Gain

47 CFR §1.1310 FCC OST/OET Bulletin Number 65 902-928MHz 300 - 1500 MHz f/1500 mW/cm2 (0.601 mW/cm2 at 902MHz)

47 CFR §1.1307(b)

Prediction distance 20 cm

EUT: Sub-GHz RF Module Radio product

External antenna version

Power = 13.907 dBm, Internal PIFA antenna gain = 2 dBi, Power density = 0.0078 mW/cm² Maximum MPE is 0.0078 mW/cm², which is less than 0.601 mW/cm². The above results show that the device complies with the MPE requirement.

Internal antenna version

Power = 13.907 dBm, antenna gain = 3.03 dBi, Power density = 0.0098 mW/cm² Maximum MPE is 0.0098 mW/cm², which is less than 0.601 mW/cm². The above results show that the device complies with the MPE requirement.

Completed By: David Zhang Vista Laboratories, Inc. 1261 Puerta Del Sol, San Clemente, CA 92673 Date: Nov 14th, 2018