

# **MPE CALCULATION**

**For HYUNDAI AUTONET Co., Ltd – ; Model: PA910CM**

**FCC ID: PINPA910CM**

|                                                                            |                                                 |
|----------------------------------------------------------------------------|-------------------------------------------------|
| <b>RF Exposure Requirements:</b>                                           | 47 CFR §1.1307(b)                               |
| <b>RF Radiation Exposure Limits:</b>                                       | 47 CFR §1.1310                                  |
| <b>RF Radiation Exposure Guidelines:</b>                                   | FCC OST/OET Bulletin Number 65 / 47 CFR §2.1091 |
| <b>EUT Frequency Band:</b>                                                 | 2402 – 2480 MHz                                 |
| <b>Limits for General Population/Uncontrolled Exposure in the band of:</b> | 1500 – 100,000 MHz                              |
| <b>Power Density Limit:</b>                                                | 1.0mW/ cm <sup>2</sup> ;                        |

**Equation:**  $S = PG / 4\pi R^2$  or  $R = \sqrt{PG / 4\pi S}$   
Where, S = Power Density  
P = Power Input to Antenna  
G = Antenna Gain  
R = distance to the center of radiated antenna

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Low Channel (2402 MHz): Power = 0.710dBm, Antenna Gain = -2.44dBi, Prediction distance 20cm

**S = 0.00013 mW/cm<sup>2</sup>**

## Result

The Above Result had shown that Device complied with 1.0 mW/cm<sup>2</sup> Power density requirement for distance of 20cm.

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