

# **MPE CALCULATION**

**For** *HYUNDAI AUTONET Co., Ltd* – ; **Model:** PA910JBLSB

**FCC ID:** PINPA910JBLSB

|                                                                     |                                                 |
|---------------------------------------------------------------------|-------------------------------------------------|
| RF Exposure Requirements:                                           | 47 CFR §1.1307(b)                               |
| RF Radiation Exposure Limits:                                       | 47 CFR §1.1310                                  |
| RF Radiation Exposure Guidelines:                                   | FCC OST/OET Bulletin Number 65 / 47 CFR §2.1091 |
| EUT Frequency Band:                                                 | 2402 – 2480 MHz                                 |
| Limits for General Population/Uncontrolled Exposure in the band of: | 1500 – 100,000 MHz                              |
| Power Density Limit:                                                | 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 = 2.26dBm, Antenna Gain = -2.12dBi, Prediction distance 20cm

**S = 0.00021 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.

Completed By : Hyo Sun Kwak

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