

## 9 Appendix A - General Product Information

## Radiofrequency radiation exposure evaluation

This exposure evaluation is intended for FCC ID: 2AGBO-MCSENS

According to FCC CFR 47 part1 1.1310, As specified in Table 1B of 47 CFR 1.1310 – Limits for Maximum Permissible Exposure (MPE), Limits for General Population/Uncontrolled Exposure

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm²)	Averaging time (minutes)
(B) Limits for General Population/Uncontrolled Exposure				
0.3-1.34	614	1.63	*100	30
1.34-30	824/f	2.19/f	*180/f <sup>2</sup>	30
30-300	27.5	0.073	0.2	30
300-1,500			f/1500	30
1,500-100,000			1.0	30

## MPE calculation method:

 $Pd = (P*G) / (4*Pi* R^2)$ , where

Pd = power density in mW/cm<sup>2</sup>

P = output power to antenna in mW

G = gain of antenna in linear scale

Pi = 3.1416

R= calculation distance in cm

>> The antenna gain is 3.3dBi (=2.138 in linear scale).

Manufacturer specified the separation distance is: 20cm

The power of EUT measured (2402MHz) is: 14.36dBm = 27.290mW

The power of EUT measured (2440MHz) is: 15.20dBm = 33.113mW

The power of EUT measured (2480MHz) is: 15.63dBm = 36.559mW

>> The Pd calculated of 2402MHz is 0.012mW/cm<sup>2</sup>

The Pd calculated of 2440MHz is 0.014mW/cm<sup>2</sup>

The Pd calculated of 2480MHz is 0.016mW/cm<sup>2</sup>

Which is smaller than the threshold of 1mW/cm<sup>2</sup>.

Therefore, the device is exempt from stand-alone SAR test requirements.