

9 Appendix A - General Product Information

Radiofrequency radiation exposure evaluation

This exposure evaluation is intended for **FCC ID: 2ASWP-254B1**.

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/cm ²)	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 ²	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:

$P_d = (P \cdot G) / (4 \cdot \pi \cdot R^2)$, where

P_d = power density in mW/cm²

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 0dBi (=1 in linear scale).

Manufacturer specified the separation distance is: 20cm

The power of EUT measured (2402MHz) is: -3.49dBm = 0.448mW

The power of EUT measured (2440MHz) is: -3.46dBm = 0.451mW

The power of EUT measured (2480MHz) is: -3.12dBm = 0.488mW

>> The P_d calculated of 2402MHz is 0.00009mW/cm²

The P_d calculated of 2440MHz is 0.00009mW/cm²

The P_d calculated of 2480MHz is 0.00010mW/cm²

Which is smaller than the threshold of 1mW/cm².

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