

10 Appendix A - General Product Information

Radiofrequency radiation exposure evaluation

This exposure evaluation is intended for **FCC ID: 2AX6LQTMEAP10**

According to FCC CFR 47 part1 §1.1310, Part 2 §2.1091, and KDB447498 D01 General RF Exposure Guidance v06, 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:

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

Pd = power density in mW/cm²

P = output power to antenna in mW

G = gain of antenna in linear scale

π = 3.1416

R = calculation distance in cm

>> The limit of Power density in 2402-2480MHz band is 1 mW/cm²

>> The antenna gain is 3.2dBi (=2.09 in linear scale).

Manufacturer specified the separation distance is: 20cm

The max. power (calculated power + tune up tolerance) of EUT in 2402-2483.5MHz band is: 2.21mW

>> The calculated Pd for the EUT in 2402-2480MHz band is 0.00092mW/cm²

>> So, the calculated Pd is smaller than the threshold of the limit.

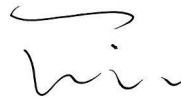
Therefore, the device is exempt from stand-alone SAR test requirements.

Appendix A

Calculated Data

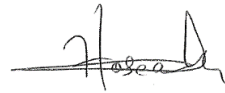
| | |
|---|---------|
| Maximum peak output power at antenna input terminal (dBm): | 3.44 |
| Maximum peak output power at antenna input terminal (mW): | 2.21 |
| Prediction distance (cm): | 20 |
| Maximum Antenna Gain, typical (dBi): | 3.2 |
| Maximum Antenna Gain (numeric): | 2.09 |
| The worst case is power density at predication frequency at 20 cm (mW/cm2): | 0.00092 |

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