

10 Appendix A - General Product Information

Radiofrequency radiation exposure evaluation

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

According to KDB 447498 D01v06 section 4.3.1, For frequencies between 100 MHz to 6GHz and test separation distances \leq 50 mm, the Numeric threshold is determined as:

Step a)

$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}] \leq 3.0$ for 1-g SAR

>> The fundamental frequency of the EUT is 2457MHz,

the test separation distance is \leq 50mm.

(Manufacturer specified the separation distance is: 5mm)

(5mm is the worst case according to the KDB)

Step b)

>> Numeric threshold (2457MHz), mW / 5mm * $\sqrt{2.457\text{GHz}}$ \leq 3.0

Numeric threshold (2457MHz) \leq 9.569mW

>> The power (calculated power + tune up tolerance) of EUT at 2457MHz is: 1.26mW

Which is smaller than the Numeric threshold.

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

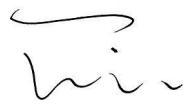
Power calculation (According to C63.10 chapter 9.5)

	Value	Unit
Field Strength Measured (E)	96.15	$\text{dB}\mu\text{V/m}$
Measurement Distance (D)	3	m
Equivalent Isotropically Radiated Power (E.I.R.P in dBm)	0.992	dBm
Equivalent Isotropically Radiated Power (E.I.R.P in mW)	1.26	mW

Remark: $\text{EIRP} = \text{E} + 20\log(\text{D}) - 104.7$

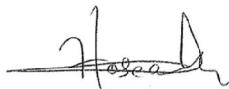
(EIRP is in dBm, E is in $\text{dB}\mu\text{V/m}$, D is in metres)

Reviewed by:



Eric LI
EMC Project Manager

Prepared by:



Hosea CHAN
EMC Project Engineer