10 Appendix A - General Product Information

Radiofrequency radiation exposure evaluation

This exposure evaluation is intended for **FCC ID: HS9-RPLW400A-2**

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

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

>> The fundamental frequency of the EUT is 916.8MHz,
the test separation distance is ≤ 50mm.
(Manufacturer specified the separation distance is: 5mm)
(5mm is the worst case according to the KDB)

Step b)
>> Numeric threshold (916.8MHz), mW / 5mm * $\sqrt{0.9168GHz}$ ≤ 3.0
Numeric threshold (916.8MHz) ≤ 15.67mW

>> The power (calculated power + tune up tolerance) of EUT at 916.8MHz is: 0.19mW
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)

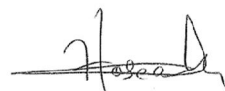|	Value	Unit
Field Strength Measured (E)	87.91	dBµV/m
Measurement Distance (D)	3	m
Equivalent Isotropically Radiated Power (E.I.R.P in dBm)	-7.25	dBm
Equivalent Isotropically Radiated Power (E.I.R.P in mW)	0.19	mW

Remark: EIRP = E + 20log(D) −104.7
(EIRP is in dBm, E is in dBµV/m, D is in metres)

Reviewed by: Prepared by:

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