

FCC RF Exposure description

FCC ID : 2ABBPRSA4000

1. Applicable Standard

According to §1.1307(b)(5), systems operating under the provisions of this section shall be operated in a manner that ensure that the public is not exposed to radio frequency energy level in excess of the Commission's guideline. This Smart Touch Control can be used in a Portable device.

2. Maximum output power including tune-up tolerance

Frequency band (GHz)	¹⁾ Target power (dBm)	¹⁾ Tolerance (dB)	Target + Tolerance (dBm)	Target + Tolerance (mW)
2.4	5	3.0	8	6.3

Notes:

1) Target power and tolerance was declared by manufacturer.

3. SAR test exclusion thresholds

Frequency band (GHz)	¹⁾ Max.power, including tune-up tolerance (mW)	²⁾ Min. test separation distance (mm)	$\sqrt{f_{\text{(GHz)}}}$	³⁾ SAR test exclusion calculation result	⁴⁾ 1-g SAR test exclusion threshold	Result
2.4	6.3	5.0	1.5	2.0	3.0	Pass

Notes:

1) Max.Power, Including tune-up tolerance (mW) = Target power (mW) x Tolerance(mW)

2) When the antenna in the device is at close proximity to user, the test separation distance is determined by the smallest distance between the outer surface of the device and the user.

3) SAR test exclusion calculation result = [(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] · [√f(GHz)]

4) SAR Test Exclusion Thresholds at 5 mm Separation Distance were referred to Appendix A in 447498 D01 General RF Exposure Guidance v05r01. See a table for SAR Test Exclusion Thresholds for 100 MHz – 6 GHz and ≤ 50 mm in Appendix A on page 15

4. Conclusion

As the output power of RSA-4000 is below SAR test exclusion thresholds, the SAR evaluation is not required.