

RF Exposure Statement: 50070395 002

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Test item: Remote Controller for Package Air Conditioner

Identification: PAR-CT01MAU-SB

FCC Requirement

According to KDB 447498 D01 v06, SAR evaluation specified in FCC 2.1093 is not required for portable equipment if the transmitter power is below the following threshold for 100MHz to 6GHz:

Highest Frequency of Transmitter Tunable Range F [GHz]	Min. Test Separation Distance D [mm]	1-g SAR Test Exclusion Threshold ($3.0 \cdot D / \sqrt{F}$) + X [mW]	10-g SAR Test Exclusion Threshold ($7.5 \cdot D / \sqrt{F}$) + X [mW]
2.480	5	9.525	23.813

Note: $X = 0$ for D (in mm) ≤ 50 mm:
 $X = (D - 50\text{mm}) \cdot (1000 \cdot F / 150)$ for D (in mm) > 50 mm and F (in GHz) in the range 0.1 to 1.5GHz
 $X = (D - 50\text{mm}) \cdot 10$ for D (in mm) > 50 mm and F (in GHz) in the range 1.5 to 6GHz

ISED Requirement

According to RSS-102 (Issue 5), clause 2.5.1, no SAR evaluation is required if the transmitter has a minimum separation distance to the user less than or equal to 20cm and has an output power (both conducted and e.i.r.p.) below the following threshold:

Equipment Use	Transmitter Frequency Range [MHz]	Separation distance [mm]	SAR Evaluation Threshold [mW]
General Public Use	2402 – 2480	≤ 5	4

Measurement Result

The maximum measured transmitter power is given in the following table:

Conducted Output Power [mW]	Maximum Antenna Gain [dBi]	EIRP Output Power [mW]
0.9772	+1.6	1.4124

Note: Antenna Gain : 1.6dBi = 1.4454 linear

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Conclusion

SAR evaluation is not required since the maximum transmitter output power (both conducted and e.i.r.p.) is below the FCC and ISED thresholds.

Note: Although the user manual of the product specifies that the equipment should be installed and operated with a minimum distance of 20 cm between the device and the user and bystanders, RF exposure evaluation was performed for portable configuration (distance < 20 cm), to cover the case where the user is touching the product when changing remote control settings.