

MT279 EIRP Justification

FCC ID: BGBMT279XG01A

Purpose

To measure radiated power(EIRP) using antenna substitution method

Test Setup for antenna substitution method

This procedure was provided by Intertek Testing Service

The EUT is placed on a support of non-metallic material, the height of which is 1 m above the ground plane. Measurements are made by the substitution method with the antenna having both horizontal and vertical polarizations and the turntable with the EUT is rotated. The highest level of radiation is noted at each measuring frequency. The EUT is replaced by a transmitting antenna supplied by a standard generator and having the same characteristics of the receiving antenna. For each measuring frequency the output level of the generator is adjusted in order to give the same reference indication on the measuring set. The level of available power of the generator, increased by the radiating antenna gain above the half-wave dipole, is taken as the level of the radiated power of the EUT at the considered frequency.

Data

Measured EIRP from antenna substitution method

Please find a worksheet titled, "Data."

Type Antenna	Mode	Channel	Max. FS*	Measure P _{radiated} **	
			(dBuV/m)	(dBm)	(W)
Retractable	Up	Low	126.90	26.2	0.41
		Mid	126.70	28.5	0.71
		High	126.70	27.9	0.61
Fixed	Fixed	Low	127.40	27.84	0.61
		Mid	128.20	30.06	1.01
		High	128.50	29.71	0.94

* Maximum FS refers to the highest field strength measured earlier from Part 24 - radiate spurious emission measu

** Measured P_{radiated} refers to EIRP measured from antenna substitution method.

Conclusion

Thus, the maximum EIRP measured = 30.06 dBm or 1.01 Watt EIRP

The SAR was done about 1 watts(856 mW conducted + antenna gain).

The EIRP we are requesting is 1 Watt.