

POWER OUTPUT

§ 22.913(a) / § 24.232 (b)

Summary:

During the process of testing, the EUT was controlled via Rhode & Schwarz Universal Radio Communication tester (CMU 200) to ensure max. power transmission and proper modulation.

This paragraph contains average output power, peak output power, EIRP & ERP measurements for the EUT. In all cases, the peak output power is within the specified limits.

Method of Measurements:

The EUT was set up for the max. Output power with pseudo random data modulation.

The power was measured with R&S Spectrum Analyzer ESIB 40 (peak)

These measurements were done at 3 frequencies,

824.2 MHz, 836.6 MHz and 848.8 MHz (bottom, middle and top of operational frequency range) for GSM-850

1850.2 MHz, 1880.0 MHz and 1909.8 MHz (bottom, middle and top of operational frequency range) for PCS-1900

Conducted (GSM-850)**Limits:**

Power Step	Nominal Peak Output Power	Tolerance (dB)
5	$\leq 33\text{dBm (2W)*}$	± 2

*GSM Specification – ETSI EN 300 910 V8.5.0 (2000-07) Section 4.1 {GSM05.05 Version 8.5.0 Release 1999}

Power Measurements:

Frequency (MHz)	Peak Power during burst (dBm)
824.2	32.38
836.6	32.63
848.8	32.78

Conducted (PCS-1900)**Limits:**

Power Step	Nominal Peak Output Power	Tolerance (dB)
0	$\leq 30\text{dBm (1W)*}$	± 2

*GSM Specification – ETSI EN 300 910 V8.5.0 (2000-07) Section 4.1 {GSM05.05 Version 8.5.0 Release 1999}

Power Measurements:

Frequency (MHz)	Peak Power during burst (dBm)
1850.2	29.24
1880.0	29.60
1909.8	29.58