

12. System Check

12.1 General System Check Procedure

System check scans were performed prior to testing of each different medium used. Prior to installing a body medium, a system check scan is performed using a corresponding body medium. A validation dipole antenna was selected that roughly matched the center frequency of the band being tested. A CW sine wave with a matching frequency is then applied to the antenna from a signal generator through an amplifier for a power level of 250 mW (20 dBm). Measured data is scaled to 30 dBm to correspond with values provided by manufacturer's calibration data. System check SAR has a tolerance of $\pm 10\%$.

If testing of a particular frequency band took more than one day, a new validation scan was done prior to commencing with testing for the subsequent day.

12.2 System Check Data

Table 12-1 shows system check data for the respective days of the test program.

Table 12-1 SAR System Check Data Gobi2000 Test Program (Body TSL)

Date	Frequency (MHz)	1 g SAR (mW/g)			
		Measured	Scaled to 30 dBm	Target	Difference (%)
9/1/2009	835	0.929	9.29	9.8	-5.2%
9/1/2009	1900	4.09	40.9	39.5	+3.5%

The following pages show system check plots for the respective days of the test program.