EXHIBIT 10

GENERAL MEASUREMENT INFORMATION

This exhibit describes the equipment used to perform the measurements required to obtain a Certification grant of equipment authorization, presents a general measurement set-up, and discusses the amplitude calibration performed to ensure accurate results, for measurements of RF output power, occupied bandwidth, conducted spurious emissions, and frequency stability. A description of the measurement of field strength of radiated emissions and equipment used is detailed in Exhibit 14.

The primary equipment used for all but measurements of field strength of radiated emissions is described in the following list, while a tabular summary of all equipment, including serial numbers and calibration dates, is presented in Table E10.1:

- HP437B Average Power Meter with HP8481A Power Sensor (for calibrations)
- HP83752A Signal Generator (for calibrations)
- HP8563E Spectrum Analyzer, with High Stability Time Base and Frequency Counter Options
- Rhode & Schwarz CMD55 Digital Radio Communications Tester
- Personal Computer (Dell) to acquire (using HP VEE), process and present results

Table E10.1. Test equipment used to perform required measurements.

Make	Model	Serial Number	Asset	Last Cal	Cal Due
HP	438A	3048U02523	A00043	31MAR99	31MAR00
HP	8481A	3318A98544	A01592	31MAR99	31MAR00
HP	8563E	3626A05388	A01569	31MAR99	31MAR01
HP	83752A	3610A00851	A00679	25MAY98	25MAY99
FLUKE	79	61200710	A00160	30MAR99	30MAR00
FLUKE	DAU	6623500	A01689	31MAR99	31MAR00
R & S	CMD55	DE11400	A01276	22APR99	22APR00
HANSE	TVC9	NA	A01334	NA	NA
HANSE	TEMP	NA	A01333	NA	NA
INMET	18S100W-20	20 dB ATTEN	NA	NA	NA
LAMBDA	LLS7040	DC SUPPLY	A00167	NA	NA

General Measurement Set-up

A composite equipment set-up used during measurements of RF output power, occupied bandwidth, conducted spurious emissions (and emissions bandwidth), and frequency stability is presented as Figure E10.1. The RF port of the RM is connected to either an HP8563E Spectrum Analyzer or a Rhode & Schwarz CMD55 Digital Radio Communications Tester. The 20 dB pad prevents the RF output from the RM from overloading the front-ends of either the HP8563E Spectrum Analyzer or Rhode & Schwarz CMD 55.

Measurements of RF output power, occupied and emissions bandwidth, and conducted emissions were performed using the HP8563E. A second PC was used to configure and control the RM for all measurements (to select transmit channel, RF output power level, operating modes, and so forth). Also during frequency stability measurements a Lambda DC supply is used for variations in DC input to the RM.

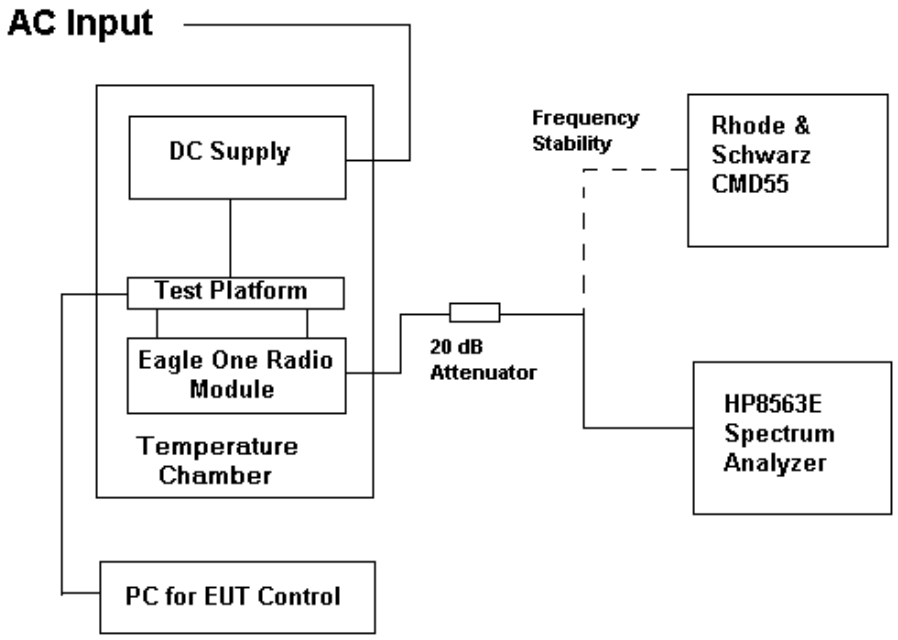

Figure E10.1. General Measurement Set-up (for all but radiated spurious emissions).

Amplitude Calibration of the Measurement System

Because measurements of peak output power (§ 2.1046) and conducted spurious emissions (§ 2.1051) are made absolutely, characterization of diagnostic system signal path (cables, attenuator) loss between the RF output connector of the RM and the input port of the HP8563E Spectrum Analyzer is necessary prior to making these measurements. For output power measurements, this loss was characterized at the center frequency of each channel at which these measurements were made. In the case of conducted spurious emissions, losses were measured at the center of each span throughout the frequency ranges given in Table E10.2. Separate calibrations were performed for correcting measurements made beyond the lower and upper edge of each of the six PCS license blocks (A – F). Measured path loss data was stored and used to correct all subsequent output power and conducted spurious emissions measurements.

Table E10.2. Diagnostic system loss measurements—frequency ranges and spans.

Frequency Range	Span
10 MHz – 1810 MHz	300 MHz
1810 MHz – 5 MHz below license lower edge	35 to 95 MHz (block dependent)
5 MHz below to 5 MHz beyond license edge	1 MHz
5 MHz beyond license edge – 2000 MHz	130 – 85 MHz (block dependent)
2000 MHz – 20 GHz	300 MHz

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