

APPLICANT: Lucent Technologies

FCC ID: AS5CMP-33

EXHIBIT 13

Section 2.1046 Measurements Required: RF Power Output

This test procedure is a measurement of the single channel RF power transmitted to the antenna terminal as shown in the accompanying test set-up diagram. In accordance with TIA/EIA/IS-138-A (July 1996): TDMA Cellular/PCS – Radio Interface – Minimum Performance Standards for Base Stations, Section 3.2, the power level shall be maintained within +1 to –3 dB of the nominal rated single channel value across the Cellular Frequency Band 869.04 – 893.97 MHz. Under this Class II Permissive Change request, a single unmodulated carrier, using software control, was set to tune from Channel 991 to Channel 799, in approximately 50 channel steps. At each channel, the Analog Cellular Dual Radio Module (CDRM), previously authorized under AS5CMP-32, transceiver power output was set to automatically tune to approximately the maximum rated single carrier power level, to provide approximately +30.8 dBm (1.2 Watts) at the transmit (Tx) antenna terminal. Measurements were made first with the A-Band simplex transmit filter: Ch 991 (869.04 MHz) to Ch 716 (891.48 MHz), and then with the B-Band simplex filter: Ch 334 (880.02 MHz) to Ch 799 (893.97 MHz). The single unmodulated carrier RF power measurements are tabulated below.

Single Unmodulated Carrier Operation

Cellular Channel Number	Carrier Frequency MHz	Cellular A-Band dBm	Cellular B-Band dBm
991	869.04	30.46	xxx
1023	870.00	30.48	xxx
50	871.50	30.69	xxx
100	873.00	30.92	xxx
150	874.50	30.88	xxx
200	876.00	30.87	xxx
250	877.50	30.87	xxx
300	879.00	30.98	xxx
334	880.02	31.04	30.33
350	880.50	31.03	30.17
400	882.00	30.86	30.08
450	883.50	30.96	30.70
500	885.00	31.15	30.21
550	886.50	30.91	30.13
600	888.00	30.57	30.85
650	889.50	30.80	30.41
700	891.00	30.60	30.08
716	891.48	30.24	30.20
750	892.50	xxx	30.44
799	893.97	xxx	29.46

Results:

Power measurements were made with a Hewlett-Packard HP437B Power Meter and an HP 8482A Power Sensor. All measurements are within the required +1 to –3 dB of the rated +30.8 dBm maximum single channel power output at the transmit antenna terminal.

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Test set-up for measuring the power output from the Cellular TDMA/Analog Multi Carrier Linear Amplifier at the Microcell transmit antenna terminal.

FLEXENT™ Cellular TDMA/Analog Microcell J41698B-1

TOM: TDMA Oscillator Module
 TRC: TDMA Radio Controller
 PCU: Power Conversion Unit
 CDRM: Cellular TDMA/Analog Dual Radio Module

