**APPLICANT: Lucent Technologies** **FCC ID: AS5CMP-32**

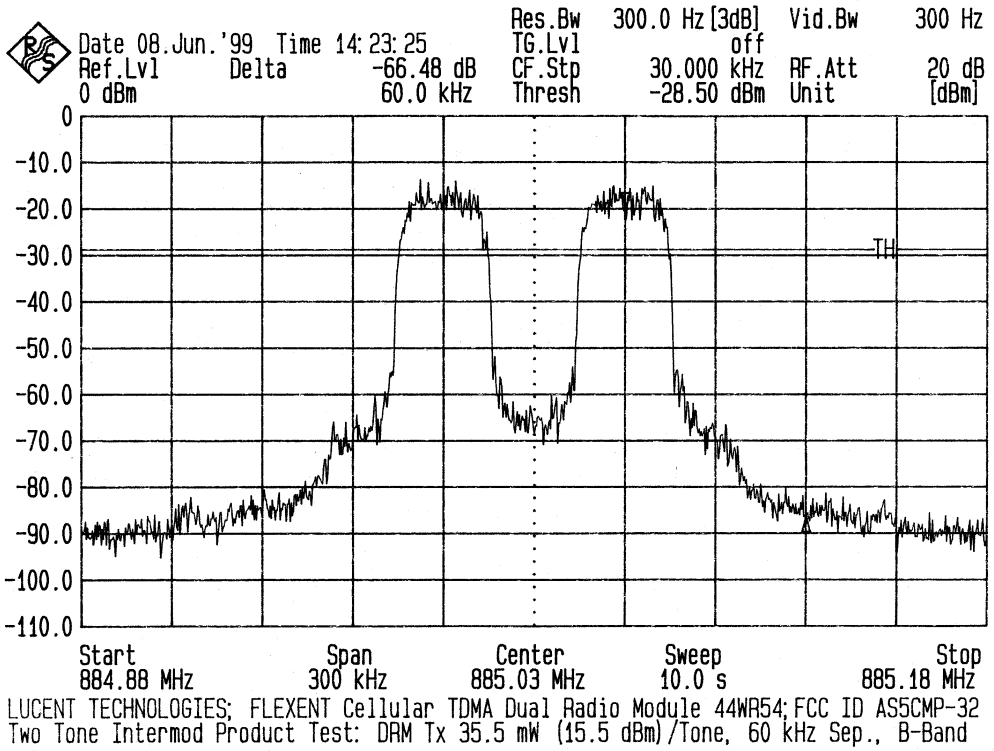
**EXHIBIT 20**

**Special Test: Measurements Required: Two-Tone Intermodulation Product Suppression**

The two-tone intermodulation product test is typically a test of the linearity of an amplifier circuit. Since the Cellular TDMA Dual Radio Module (CDRM), 44WR54, is able to transmit two independently controlled and tuned carriers, it is appropriate to demonstrate that they do not generate intermodulation products. The intermod limitation is determined from 43 + 10 log (Power in Watts) attenuation below the carrier. Measurement was made at the CDRM output terminal from the backplane with both carriers equally set to approximately +15.5 dBm (36 mW) each; the required attenuation is then 28.5 dBc. The tests were performed with the 2 carriers tuned to mid B-Block, first with 60 kHz separation and then with 600 kHz separation. The test procedure was the same as used for the occupied bandwidth measurement.

**RESULTS:**

The 2 data plots attached show no intermodulation products for 60 kHz separation and intermodulation products attenuated 56 dB below the required limitation of 28.5 dBc for 600 kHz separation, which is not reportable (i.e., >20 dB below the required limit). The CDRM is in full compliance with the requirements of Part 22.917.




Two tones with 60 kHz separation: Channel 500, 885.00 MHz and Channel 502, 885.06 MHz
Cellular TDMA Dual Radio Module output power: +15.5 dBm (36 mW) per carrier.

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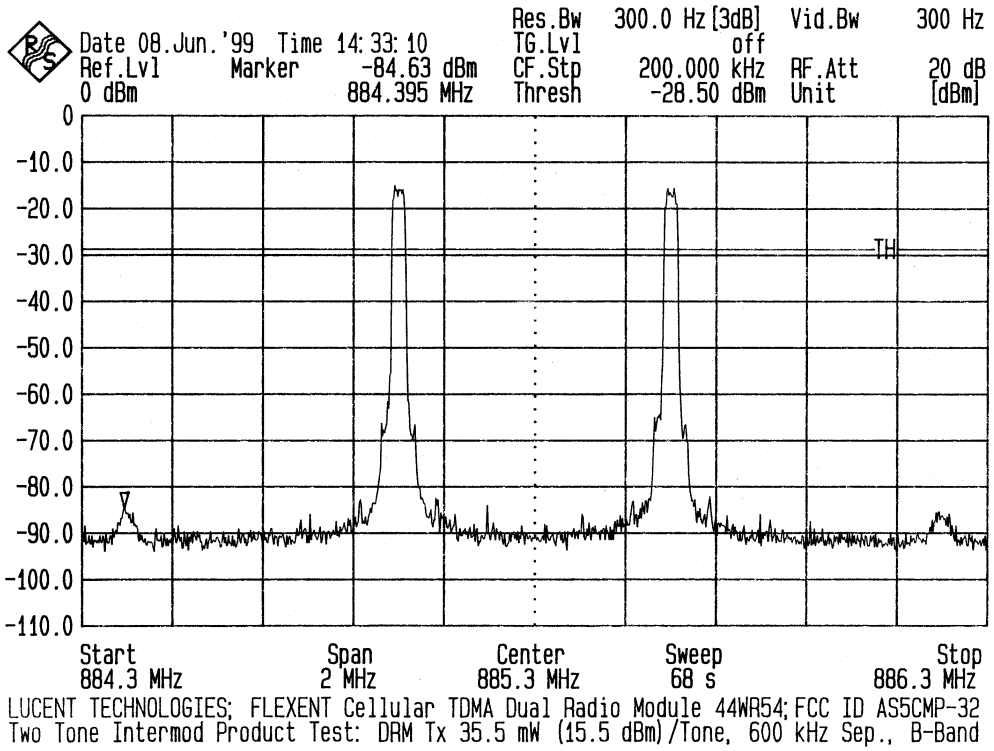


Two tones with 600 kHz separation: Channel 500, 885.00 MHz and Channel 520, 885.60 MHz
Cellular TDMA Dual Radio Module output power: +15.5 dBm (36 mW) per carrier.