

**AT7000
SUPPLEMENTAL DATA
PART 87.139 250% BANDWIDTH MEASUREMENT**

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REVISION HISTORY

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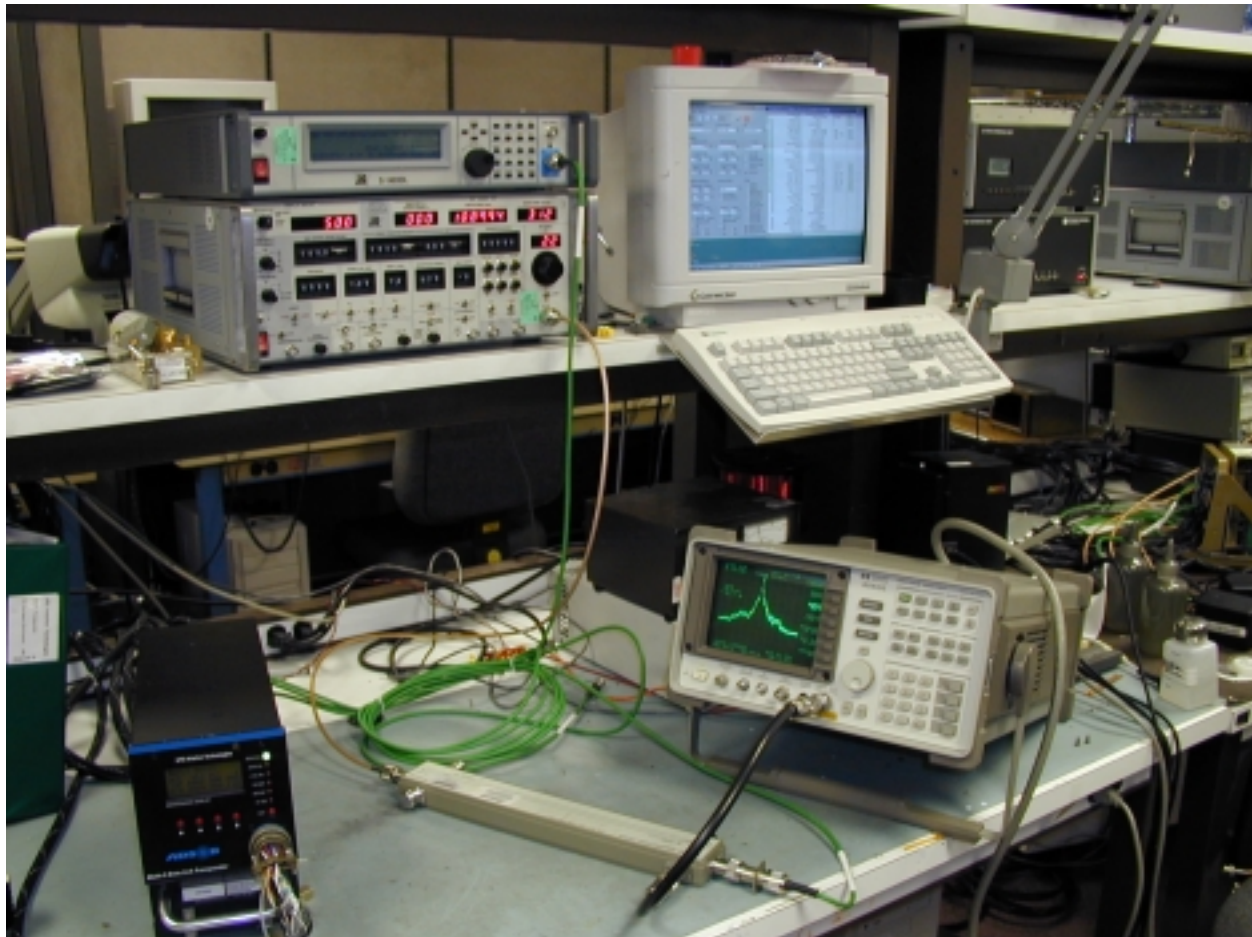
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1. INTRODUCTION

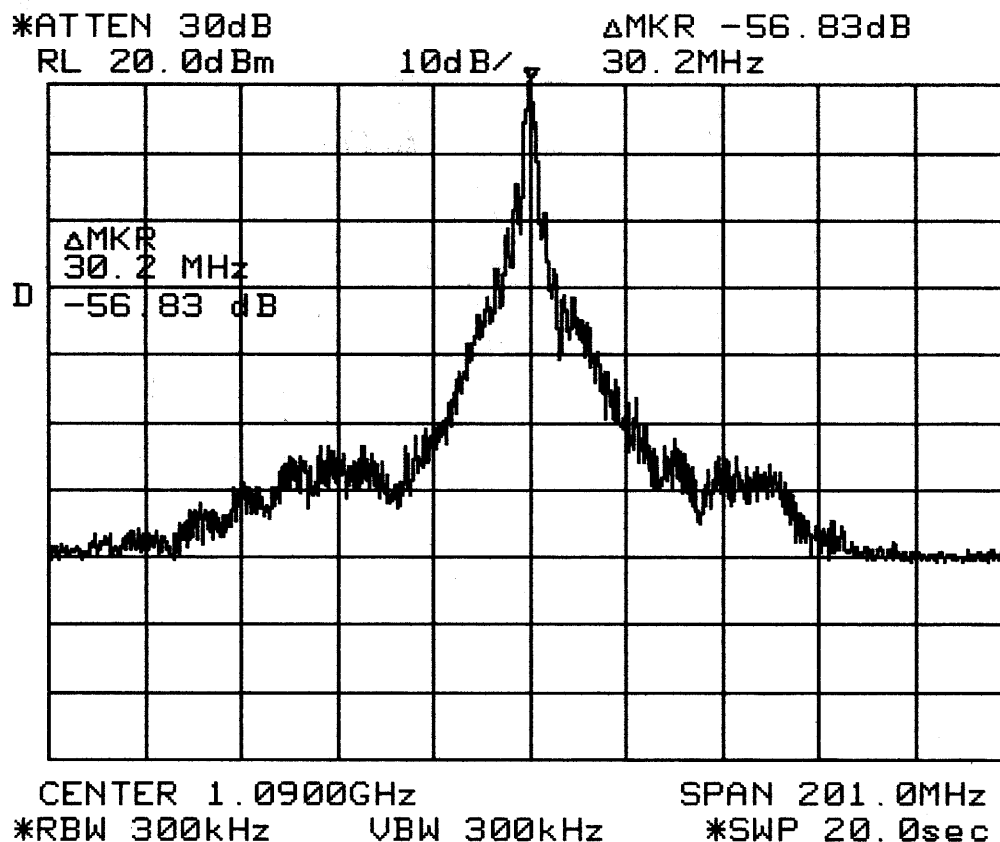
This report augments the Spurious Emissions at Antenna Measurement required by FCC part 87.139 and conducted at on September 5, 2001 as described in CKC Laboratories report number FC01-059 pages 24 through 29. The measurement that is shown on page 28 was re-done with a lower resolution bandwidth setting on the spectrum analyzer. Set up, outlined in section 2, is identical to the top picture on page 29 except that the 10-dB pad was taken out of the directional coupler incident path. This further improved the spectrum analyzer's noise figure. The test equipment that was used to perform the test is listed. Where applicable, equipment serial numbers and calibration dates are also recorded. Results are shown below in section 3.

2. SYSTEMS OVERVIEW

Model	Description	S/N	Cal Date / Due	Calibrated By
HP8563E	Spectrum Analyzer	3420A00312	1-25-01 1-25-02	TPC
HP 778D	Directional Coupler – 20 dB coupling			
IFR S-1403DL		6558	01-02-2002 01-02-2003	IFR
IFR ATC-1400A		6626	01-02-2002 01-02-2003	IFR
Computer	Used only instead of a transponder control panel.			



3. RESULTS



The measurement above was made in response to a request by the FAA's spectrum office after reviewing the submittal data. The marker is set to 30 MHz, which is the 250% BW point for 12 MHz authorized BW. Since we are requesting a 14 MHz authorized BW, the limit is actually 35 MHz. The measurement was therefore repeated and annotated accordingly as shown on the next page.

The measurement below, taken on Friday January 18, 2002, is identical to the above measurement except annotations were added to reflect the spec limits at the 250% BW that corresponds to a 14 MHz authorized bandwidth.

