

Exhibit 14 Spurious Emissions

2.1051 MEASUREMENTS REQUIRED: SPURIOUS EMISSIONS AT ANTENNA TERMINALS.

The radio frequency voltage or powers generated within the equipment and appearing on a spurious frequency shall be checked at the equipment output terminals when properly loaded with a suitable artificial antenna. Curves or equivalent data shall show the magnitude of each harmonic and other spurious emission that can be detected when the equipment is operated under the conditions specified in § 2.1049 as appropriate. The magnitude of spurious emissions which are attenuated more than 20 dB below the permissible value need not be specified.

2.1057 FREQUENCY SPECTRUM TO BE INVESTIGATED

(a) In all the measurements set forth in §§ 2.1051 and 2.1053, the spectrum shall be investigated from the lowest radio frequency signal generated in the equipment, without going below 9 kHz, up to at least the frequency shown below:

(1) If the equipment operates below 10 GHz: to the tenth harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower.

Broadcast Electronics Response

Measurements were made with an HP 3585 Spectrum Analyzer using an RF sample obtained from a capacitive voltage divider (See 11E for the frequency response of the divider). The transmitter was operated as shown in Exhibit 11B.

See Exhibit 14A for the spectrum plots with the analyzer set at 1 MHz horizontal span.

See Exhibit 14B for the spectrum plots with the analyzer set from 0 to 10 MHz.

Note: The extension on the Exhibit number represents the number of watts. Example: 14A-2500 is for 2500 Watts.

2.5kw AM-2.5E
10-21-99

REF -2.6 dBm
10 dB/DIV

RANGE .0 dBm

MARKER 1 000 000.0 Hz
-2.6 dBm

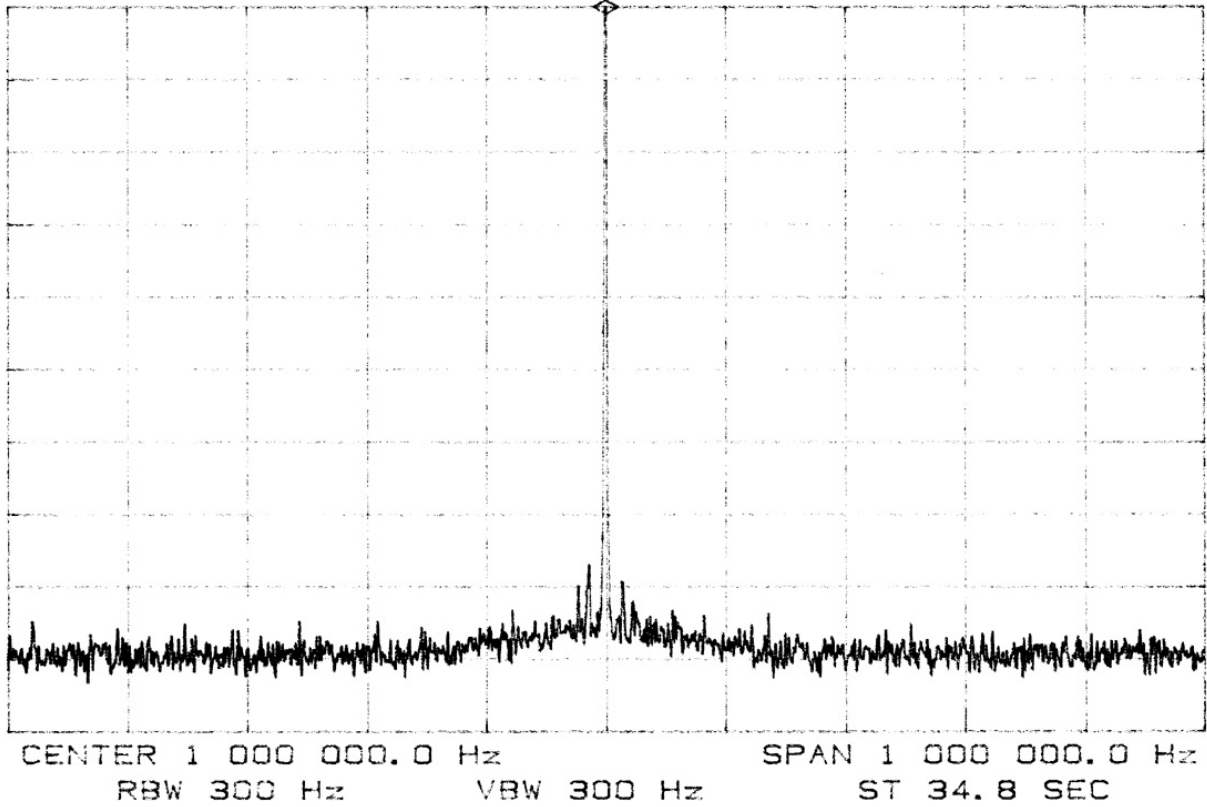


Exhibit 14A-2500

250W AM-2.5E
10-29-99

REF -12.4 dBm
10 dB/DIV

MARKER 1 000 000.0 Hz
-10.0 dBm

-12.4 dBm

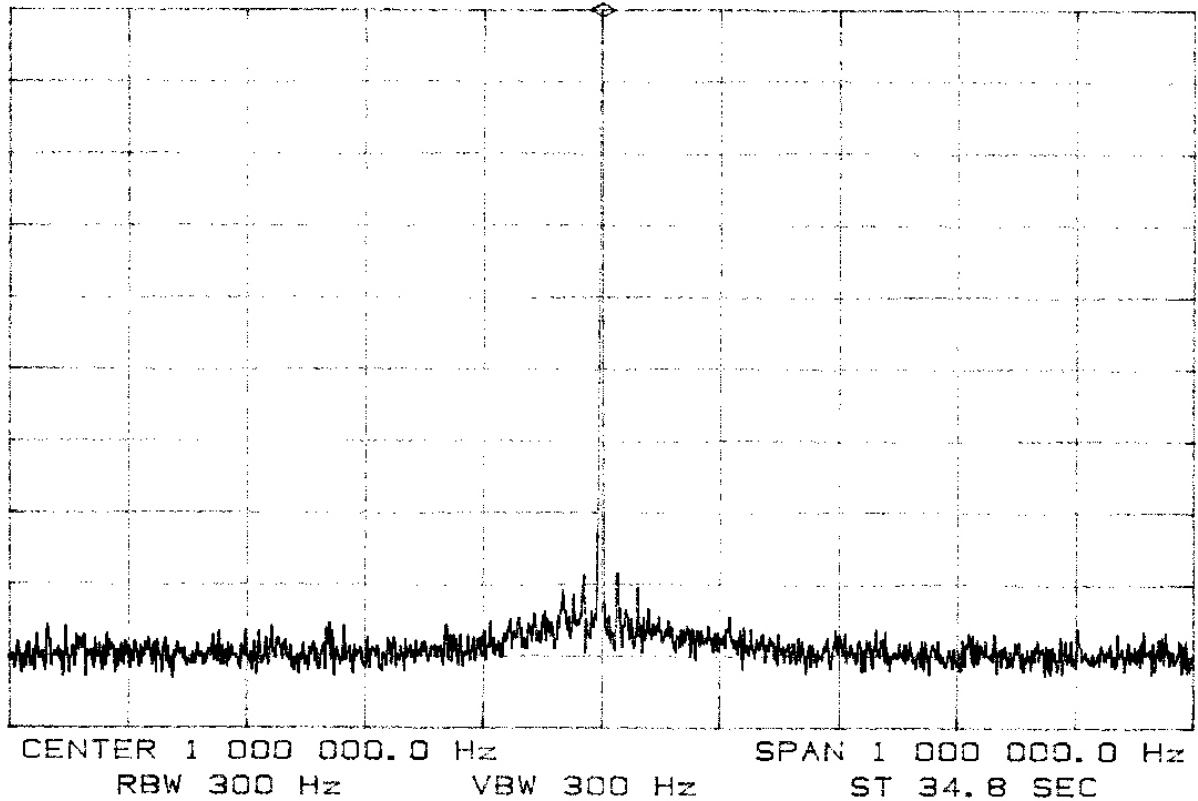


Exhibit 14A-250

12.5W A1-2.5E
10-29-99

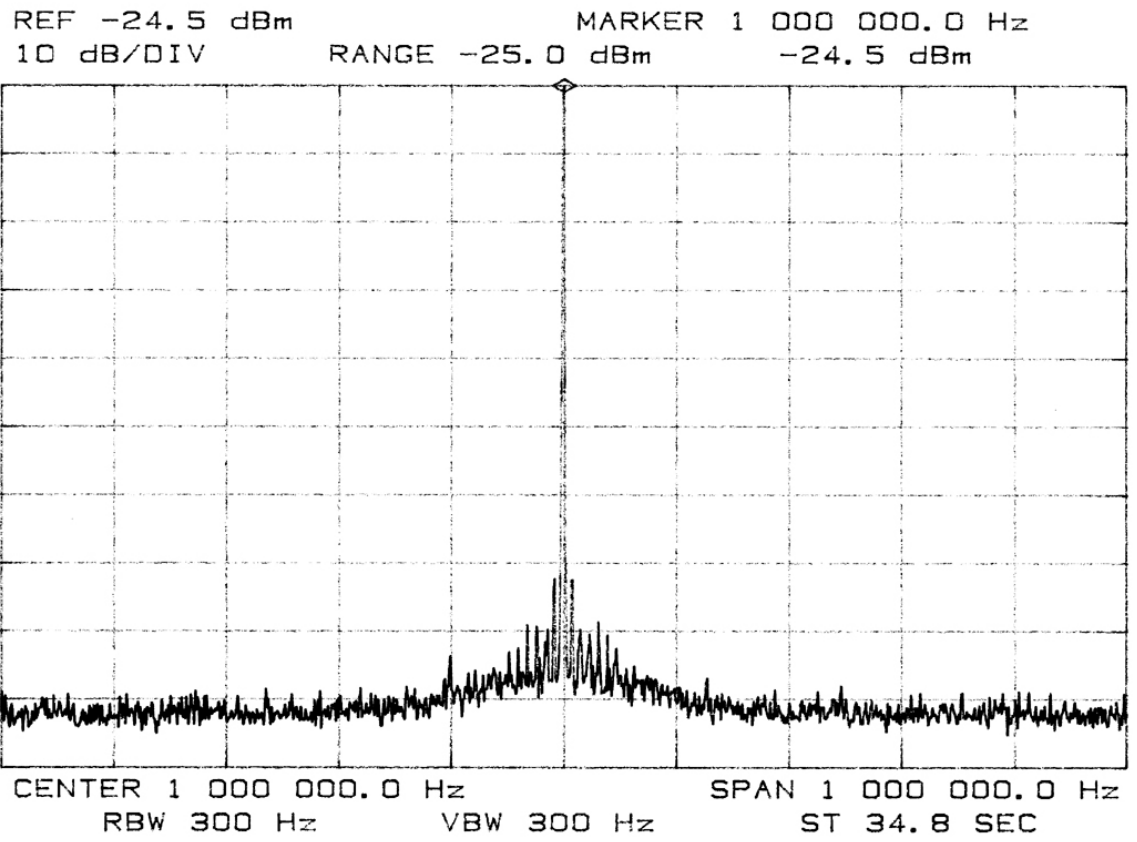


Exhibit 14A-12.5

Exhibit 14B-2500

250W AM-2.5E
10-29-99

REF -12.5 dBm
10 dB/DIV

MARKER 1 000 000.0 Hz
-12.3 dBm
RANGE -10.0 dBm

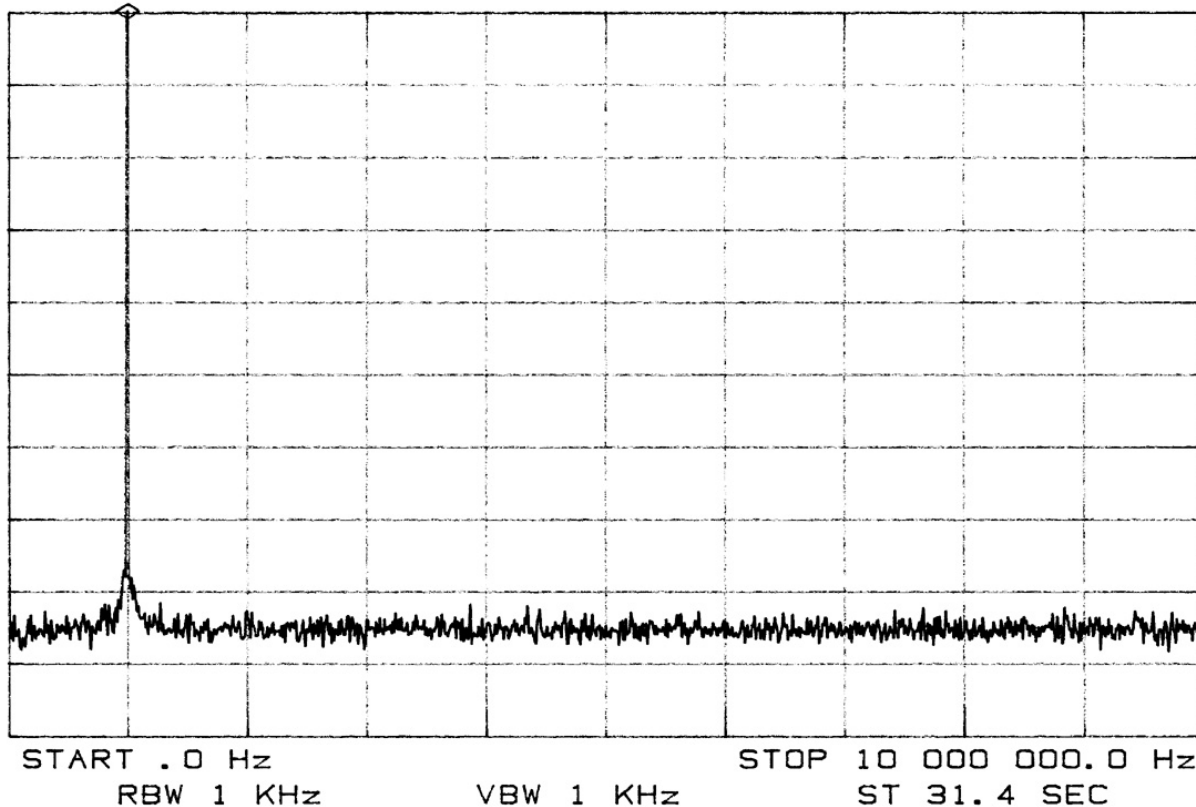


Exhibit 14B-250

12.5W AM-2.5E
10-29-99

REF -24.6 dBm
10 dB/DIV

MARKER 1 000 000.0 Hz
-24.6 dBm
RANGE -25.0 dBm

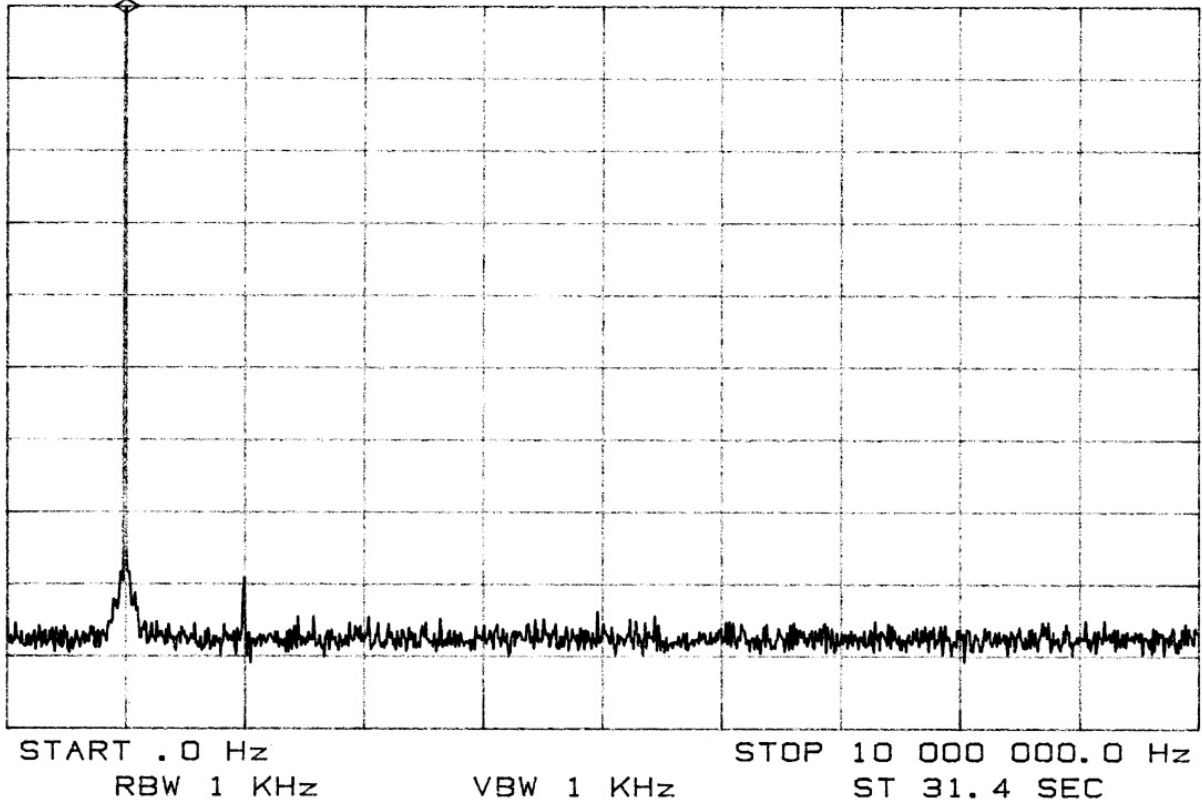


Exhibit 14B-12.5