

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 ratio 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-5000 is for 5000 Watts.

2-1v 2000

5kW AM-SE
No Notch Filter

REF 1.5 dBm
10 dB/DIV

OFFSET 256 000.0 Hz
RANGE 5.0 dBm

-82.7 dB

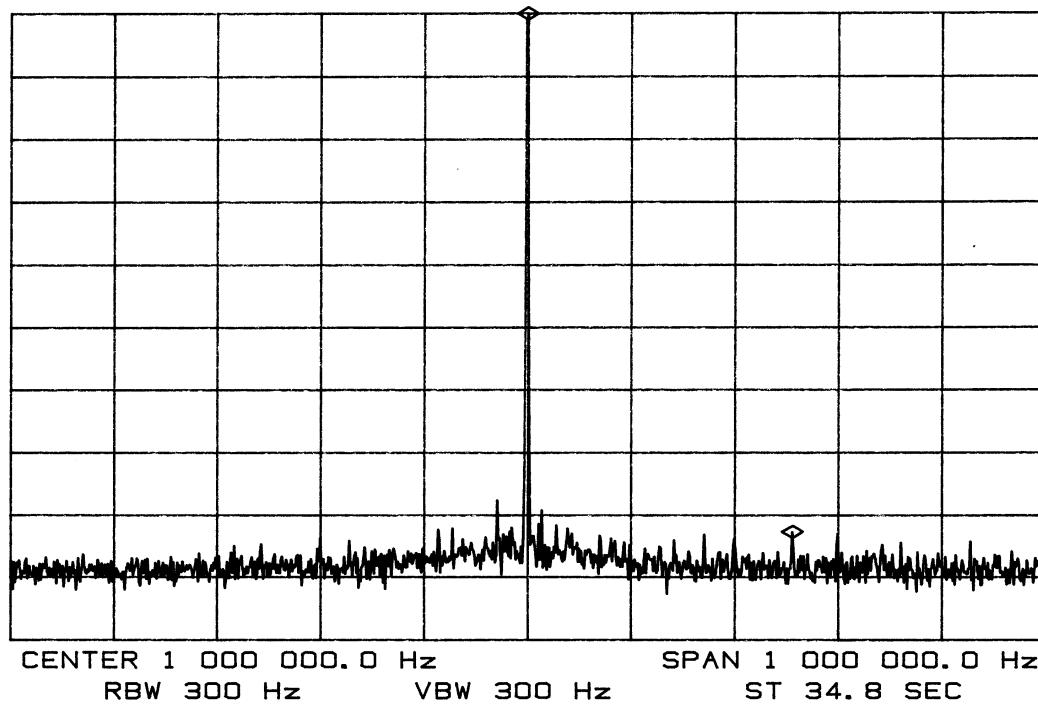


Exhibit 14A-5000

2-1-2000

500W AM-SE
No Notch Filter

REF -8.6 dBm
10 dB/DIV

OFFSET .0 Hz
RANGE -5.0 dBm .1 dB

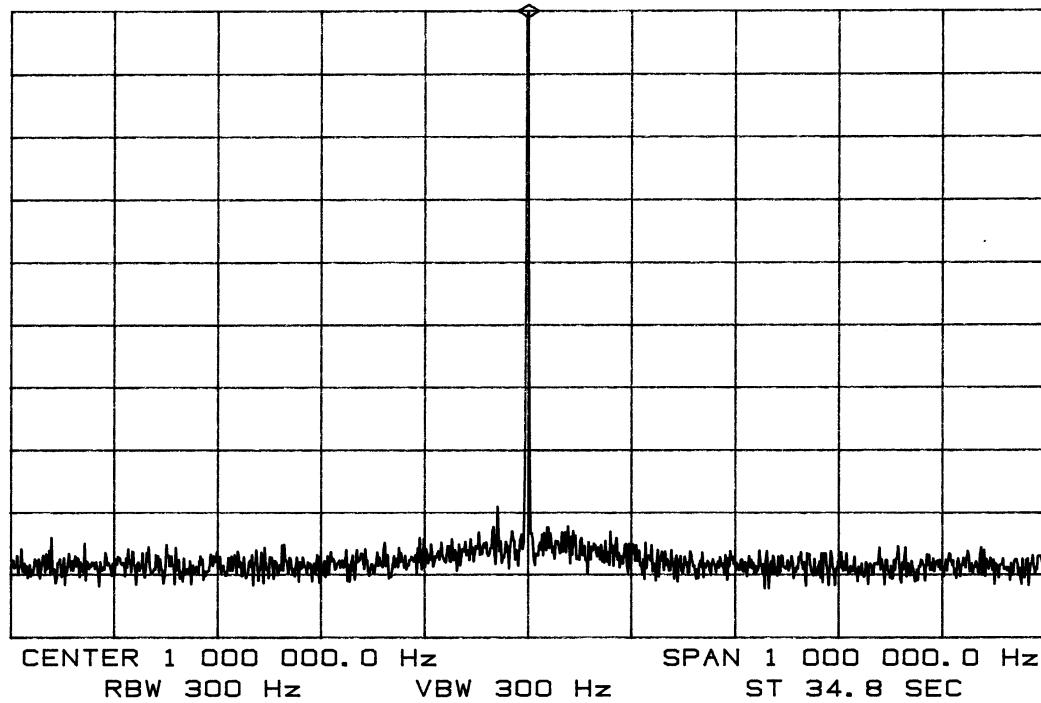


Exhibit 14A-500

2 - 1~2000

25W AM-SE
No Notch Filter

REF -21.7 dBm
10 dB/DIV

OFFSET 342 000.0 Hz
RANGE -20.0 dBm -87.4 dB

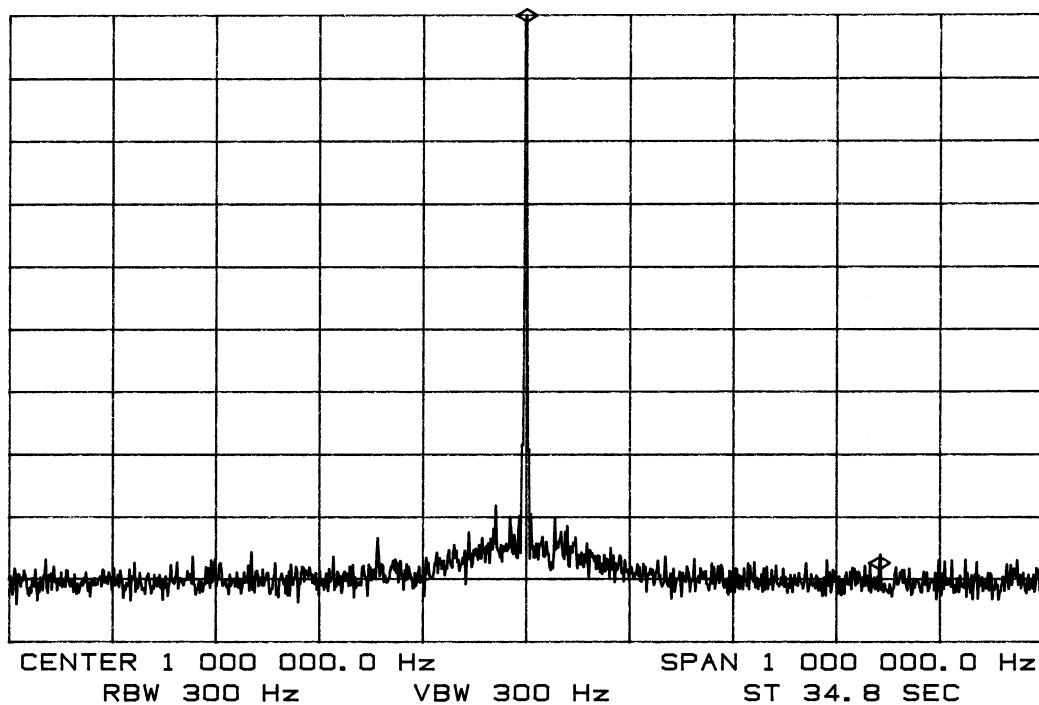


Exhibit 14A-25

2-1-2000

5 KW AM-SE
No Notch Filter

REF 1.3 dBm
10 dB/DIV

OFFSET .0 Hz
RANGE 5.0 dBm .0 dB

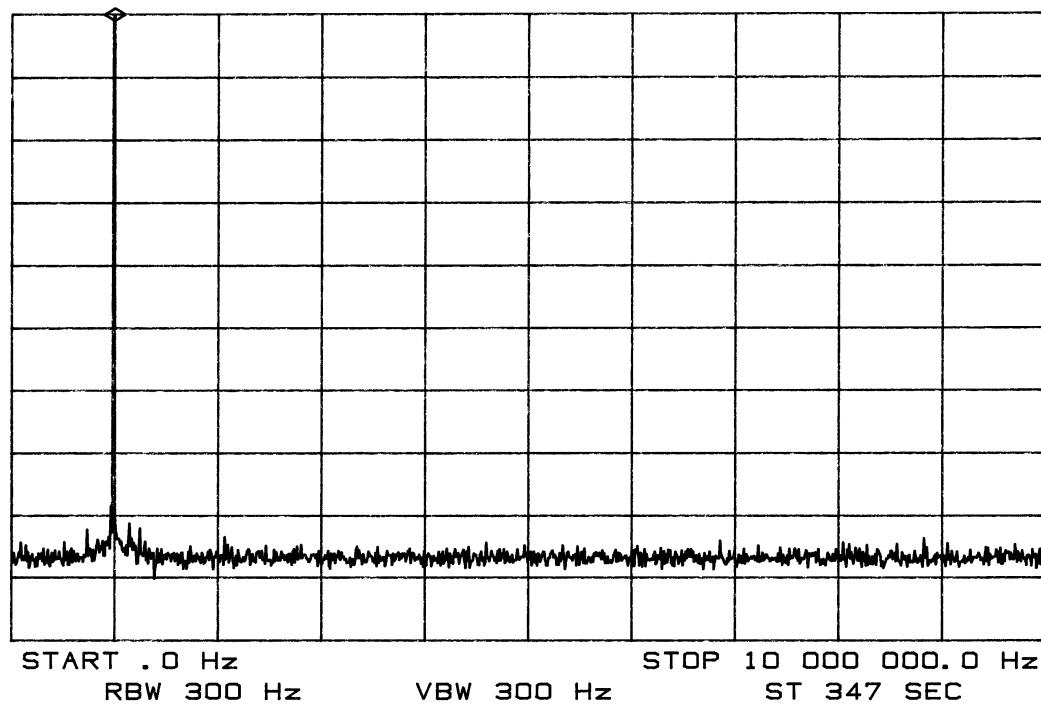


Exhibit 14B-5000

2-1-2000

500W AM-5E
No Notch Filter

REF -8.8 dBm
10 dB/DIV

OFFSET .0 Hz
RANGE -5.0 dBm -10.1 dB

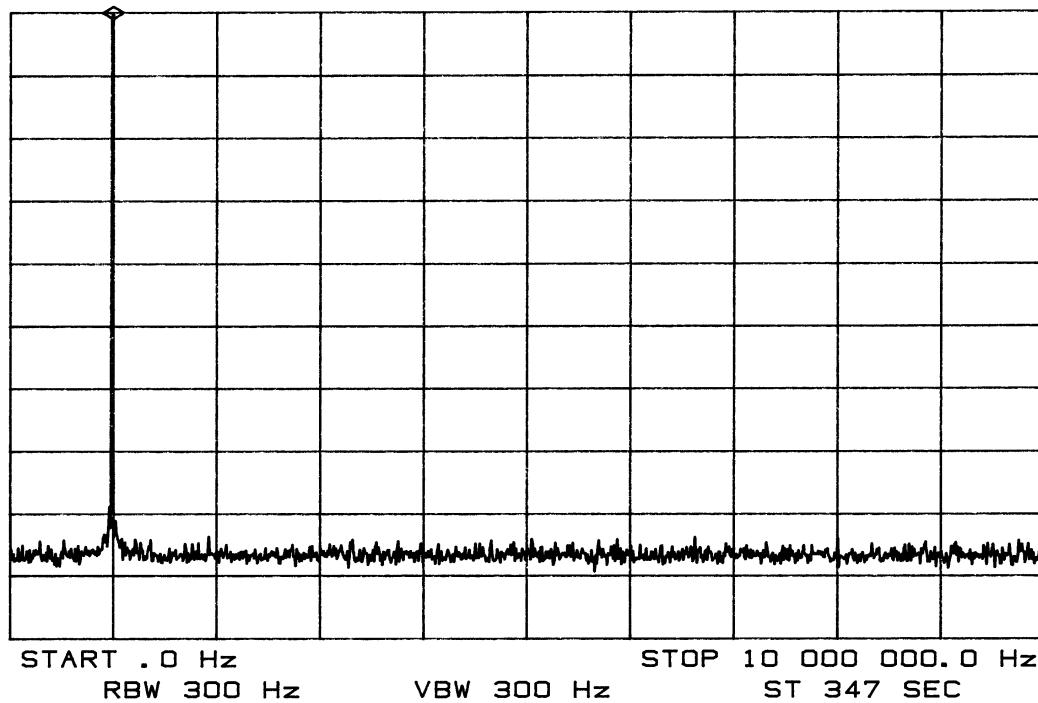


Exhibit 14B-500

2-1-2000

25W AM-5E
No Notch Filter

REF -21.8 dBm
10 dB/DIV

OFFSET 1 000 000.0 Hz
RANGE -20.0 dBm -77.0 dB

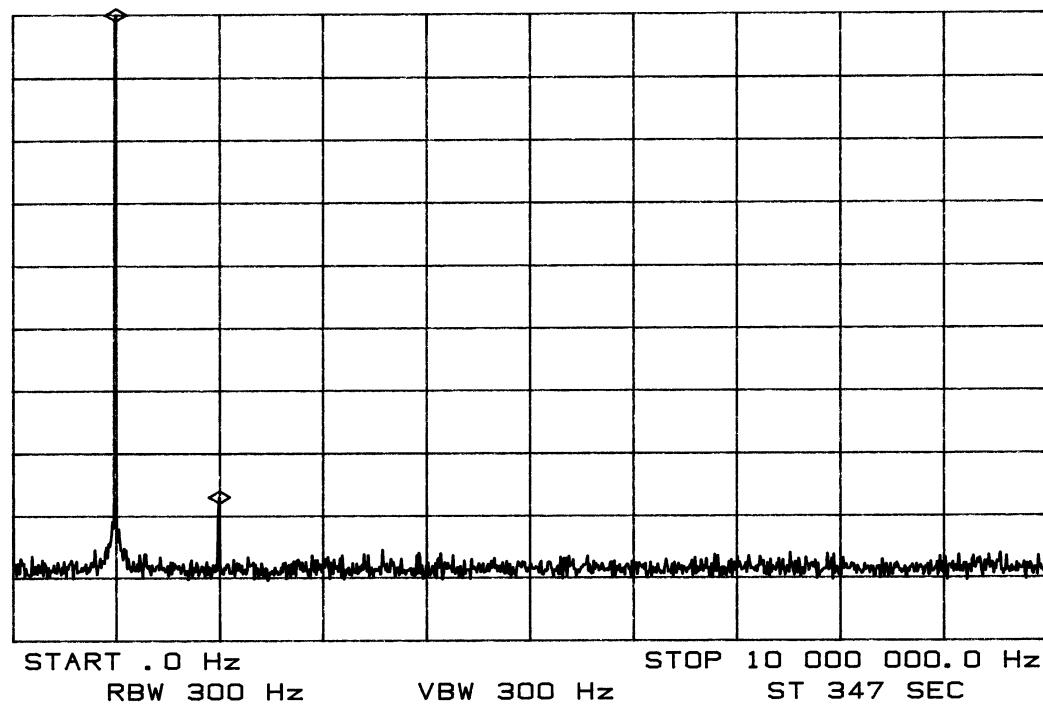


Exhibit 14B-25