

Report Number:

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Computer Electronics Research Group

STD-302

2.9 Spurious Emissions at Antenna terminals (FCC Section 2.1051, 90.217)

Spurious emissions in the frequency range 30 MHz – 2 GHz have been measured with a spectrum analyzer by connecting the spectrum analyzer directly via a short cable to the antenna output terminals or across the antenna leads on the PCB as specified by the manufacturer. The spectrum analyzer was set for a 50 Ω impedance with the RBW = 100 kHz and VBW > RBW. Test data are found in Figures 5a through 5h Below. Limits are based upon FCC 90.217 (a). All spurious are greater than 30 dB below the unmodulated carrier.

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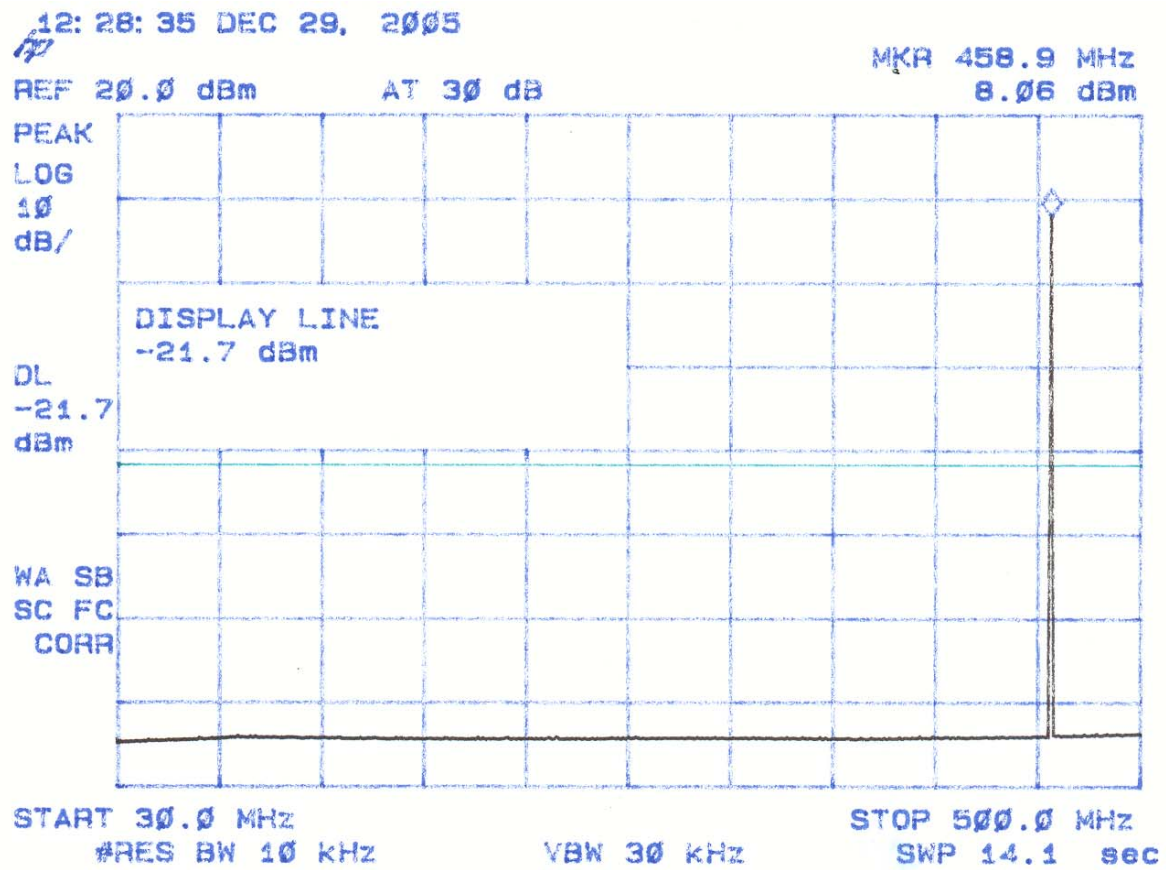


Figure 5a. Antenna Conducted Spurious Emissions, FCC 2.1051.

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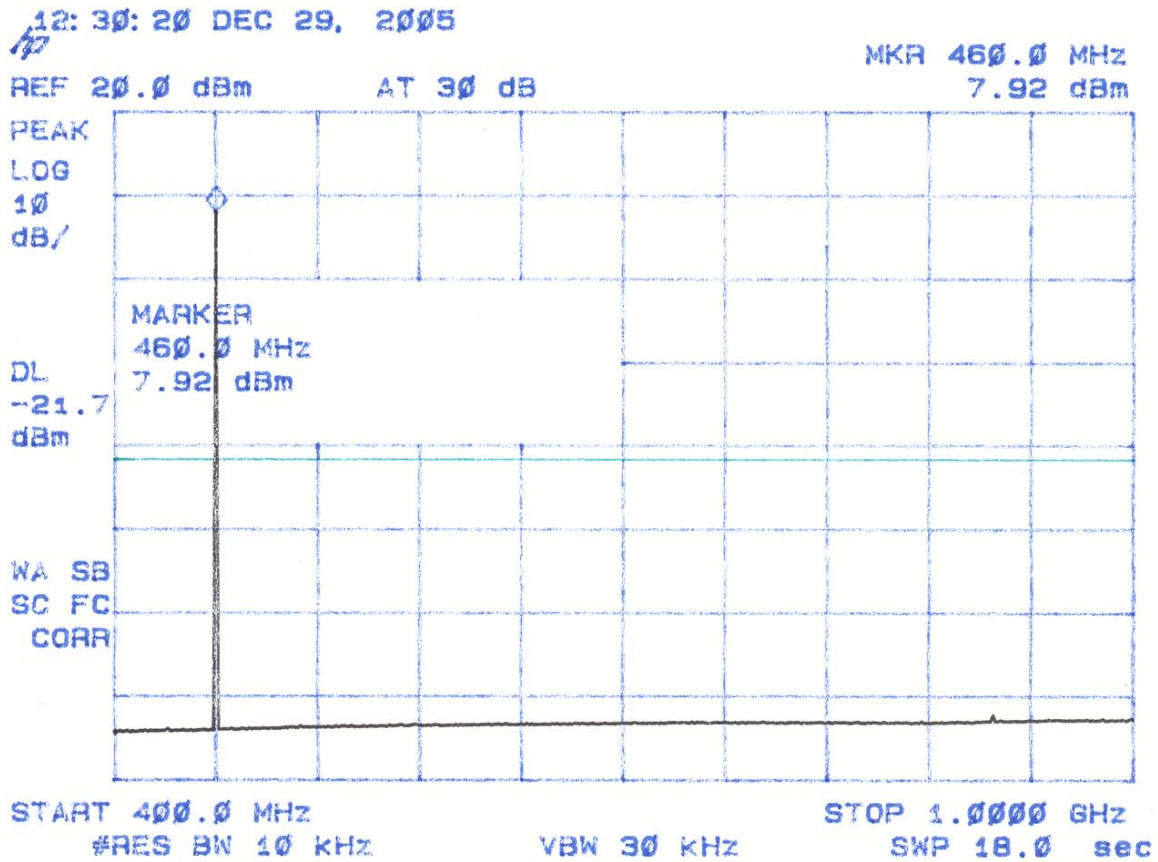


Figure 5b. Antenna Conducted Spurious Emissions, FCC 2.1051.

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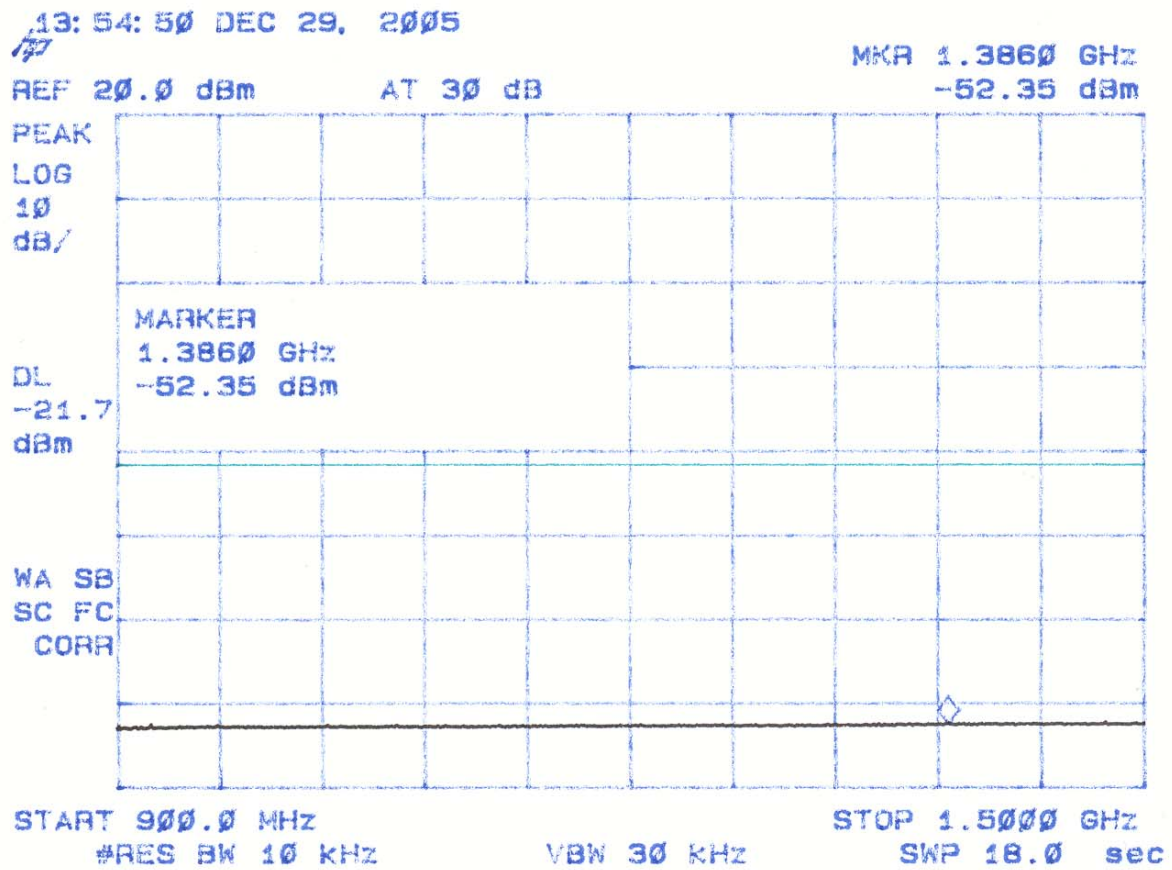


Figure 5c. Antenna Conducted Spurious Emissions, FCC 2.1051

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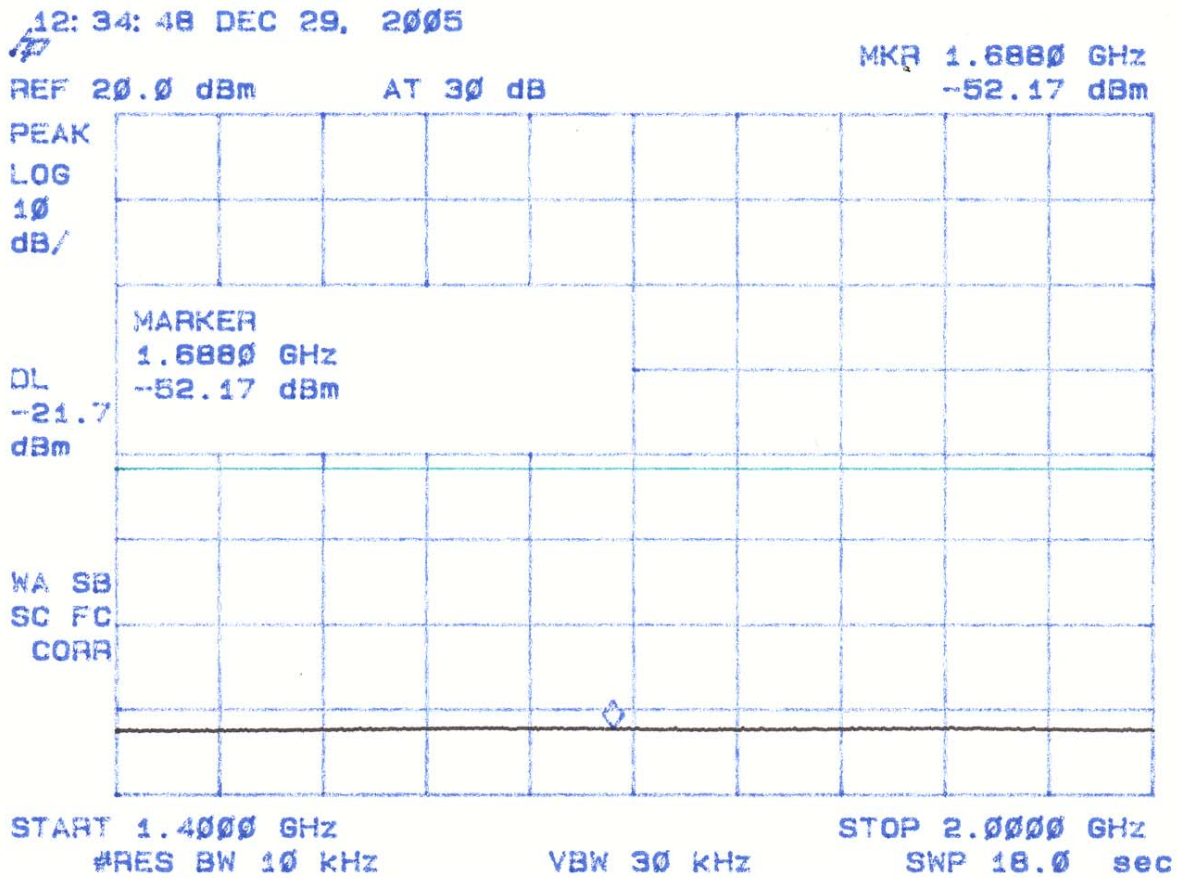


Figure 5d. Antenna Conducted Spurious Emissions, FCC 2.1051

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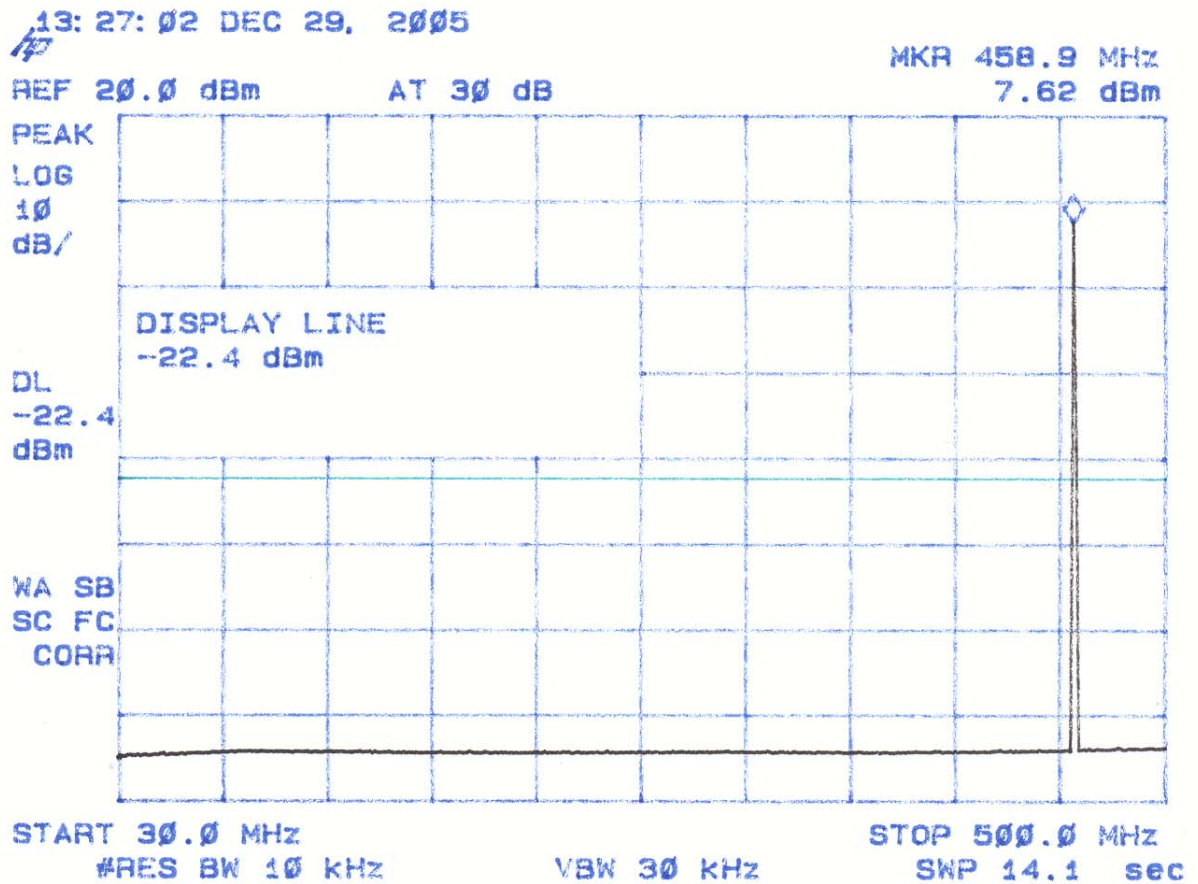


Figure 5e. Antenna Conducted Spurious Emissions, FCC 2.1051

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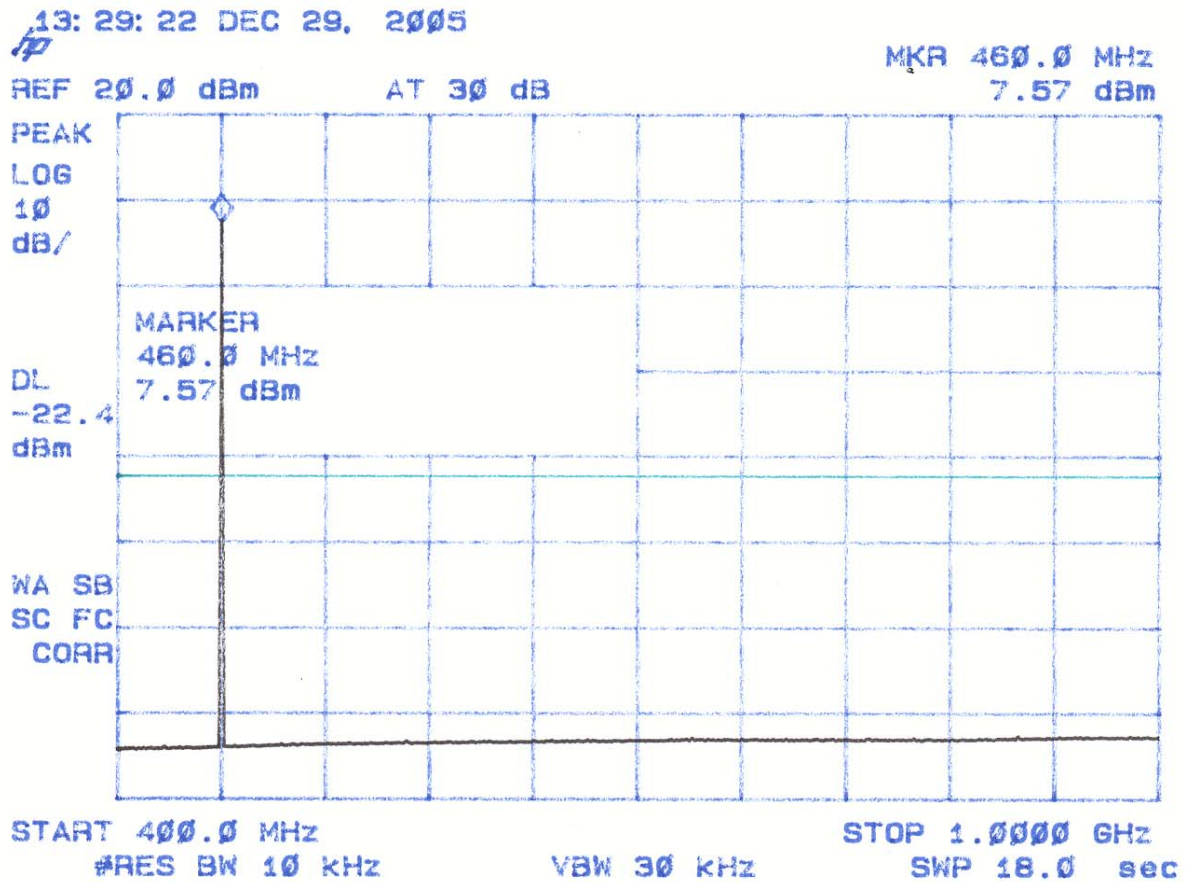


Figure 5f. Antenna Conducted Spurious Emissions, FCC 2.1051

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13: 51: 23 DEC 29, 2005

17

REF 20.0 dBm

AT 30 dB

MKR 1.5000 GHz

-52.36 dBm

PEAK

LOG

10

dB/

DL

-22.4

dBm

WA SB

SC FC

CORR

START 900.0 MHz

#RES BW 10 kHz

VBW 30 kHz

STOP 1.5000 GHz

SWP 18.0 sec

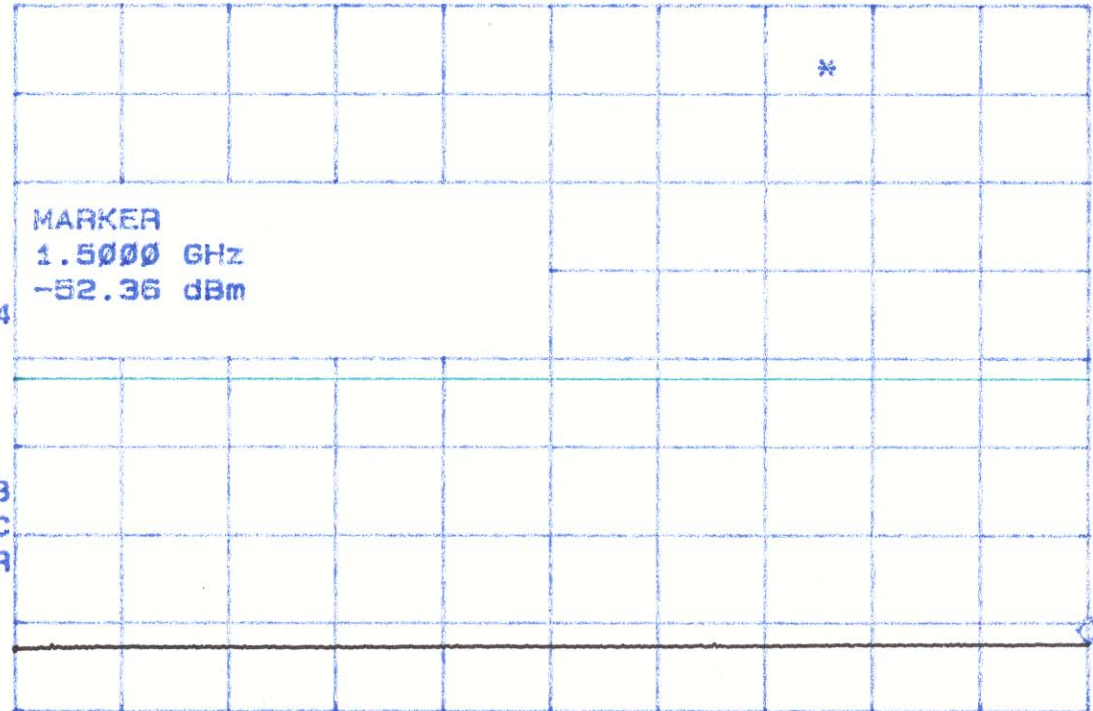


Figure 5g. Antenna Conducted Spurious Emissions, FCC 2.1051