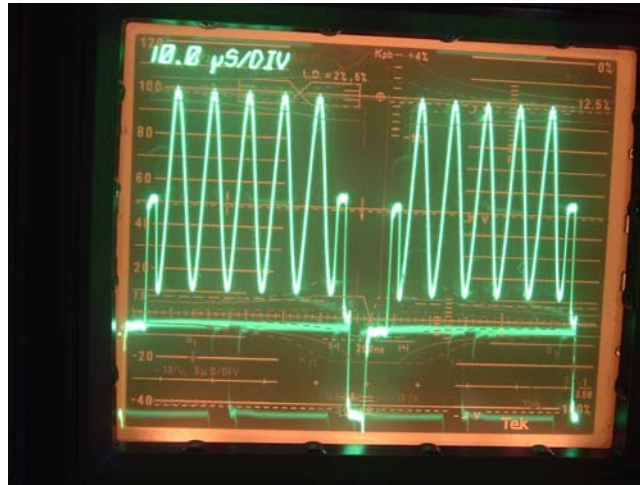


VISUAL TRANSMITTER FREQUENCY RESPONSE MEASUREMENTS

The test equipment configuration of Figure 1 was used with the 1410 video generator supplying the video input waveform. For this test, the aural carrier was left energized. A variable frequency sine wave of 90 IRE Peak-to-Peak amplitude from 200 kHz to 6.0 MHz with pedestal set at 52.5 IRE input video waveform was used. The modulation output was increased until the maximum excursion reached reference white and 10 IRE as shown in the photo below. The frequency of the variable sine wave was varied between 200 kHz to 6.0 MHz in 500 kHz steps. The RF sideband output level was measured for the sidebands below and above the visual carrier. The frequency response was plotted. The plot is displayed on the next page to confirm that the radiated envelope meets the requirements as outlined in Part 74 Rule 750.

FREQUENCY RESPONSE INPUT WAVEFORM



The sweep amplitude of 90 IRE establishes a spectrum component at -14 dB reference to peak of sync output power. The frequency response measurements are tabulated below for upper and lower sideband values at transmitter output power of 2 kW and plotted on the next page to demonstrate compliance with the frequency response Rule 74.750.

Index	Frequency of modulating sine wave	Lower Sideband level (dBc)	Upper Sideband level (dBc)
0	Visual Carrier	0dBc	0dBc
1	200kHz	-13	-14
2	500kHz	-13	-14
3	1.0MHz	-32	-14
4	1.5MHz	-39	-14
5	2.0MHZ	-39	-14
6	2.5MHz	-40	-14
7	3.0MHz	-44	-14
8	3.5MHz	-48	-14
9	4.0MHz	-55	-13
10	4.2MHz	-62	-13
11	4.5MHz	-65	-13
12	5.0MHz	-60	-14
13	5.5MHz	-64	-24
14	6.0MHz	-71	-62

PLOT OF SPECTRUM AT POWER OUTPUT =2.0 kwatts

