



Worst case measurement of cabinet radiation measured just outside channel (left photo) and at 2nd harmonic area (right photo). Levels are tabulated below. All other levels were calculated below –80 dB relative to peak sync power and thus not tabulated.

Output Power = 1100 watts peak sync

Spectral Frequency	Displayed Value	Corrected value*
514.75 MHz (Fv - 4.5)	-49 dBm	-63 dB
1.038GHz (Fv x 2)	-60 dBm	-68 dB
1.047 GHz (Fa x 2)	-60 dBm	-68 dB
1.03 GHz (2xFv-9)	-64 dBm	-72 dB
1.056 Ghz (2xFv+18)	-68 dBm	-76 dB

*Corrected for cable loss, antenna gain, path loss and notch filters at visual and aural carriers and compared to Peak Sync power.

Final Amplifier Voltage and Current Measurements

Final amplifier voltage and current measurements were made with the translator operating at 1100 watts power output and at 250 watts output power. A video input signal of sync and 0 IRE “setup” level was used. Voltage measurements were made using a Fluke 77 meter and current measurements were made using the same meter with a FW Bell model C6-100A current probe.

Peak Output Power = 1100 Watts

Voltage = 27.8 volts

Current = 88.0 amps

Final amplifier power input = 2446 watts

Peak Output Power = 250 Watts

Voltage = 27.9 volts

Current = 47 amps

Final amplifier power input = 1311 watts

Equipment List

The following test equipment was used in the various test equipment configurations or to create calibration of equipment at various frequencies. All equipment was known to be in good working order and the supplier of the equipment stipulated the equipment was within the calibration period.

EQUIPMENT MODEL	SERIAL NUMBER
Cadco M-369 TV modulator	K2579
Cadco 375 demodulator	C5013
HP 8585E Spectrum Analyzer	3523A01399
HP 435B Power Meter	2702A14412
HP 3525A Signal Generator	2846A01312
HP 200 CD Audio Generator	0960A86012
Tektronix TSG90 Video signal generator	B022622
Tektronix 1750 Waveform Monitor	B033351
ETS 3147 Log Periodic Antenna	9811-1332
Fluke 77 meter	AA00173889
Wavetek 8003 Scalar Analyzer	1813961
Bird 8329-300 Attenuator	506
Narda 3022 Directional coupler	70226