

UNWANTED RADIATION

2.1051

Not Applicable, no antenna terminal allowed.

2.1053

UNWANTED RADIATION:

95.635(b)(7)

REQUIREMENTS:

Emissions must be attenuated by at least the following below the output of the transmitter.

$$43 + 10\log(TP) = 43 + 10\log(0.5) = 40.00\text{dB}$$

TEST DATA:

| EMISSION FREQ. MHz | METER READING @ 3m dBuV | COAX LOSS dB | FIELD | | | |
|--------------------------|-------------------------------|--------------------|-----------|-------------------|----------------|--------------|
| | | | ACF dB | STRNGTH dBuV/m | ATT. dBuV/m | MARGIN dB |
| 462.70 | 104.20 | 1.60 | 18.44 | 124.24 | 0.0 | 0.17 |
| 925.40 | 47.60 | 2.90 | 24.10 | 74.60 | 49.64 | 9.64 |
| 1388.10 | 34.60 | 1.00 | 25.55 | 61.15 | 63.09 | 23.09 |
| 1850.80 | 36.10 | 1.01 | 27.40 | 64.51 | 59.73 | 19.73 |
| 2313.50 | 24.50 | 1.08 | 28.78 | 54.36 | 69.88 | 29.88 |
| 2776.20 | 11.00 | 1.15 | 29.94 | 42.09 | 82.15 | 42.15 |
| 3238.90 | 21.70 | 1.22 | 31.10 | 54.01 | 70.23 | 30.23 |
| 3701.70 | 10.20 | 1.29 | 32.25 | 43.74 | 80.50 | 40.50 |
| 4164.30R | 8.80 | 1.35 | 33.18 | 43.33 | 80.91 | 40.91 |
| 4627.10R | <5.50 | 1.42 | 33.71 | 40.63 | 83.61 | 43.61 |

$$\text{MARGIN} = (\text{Field strength of Fund} - 40\text{dB}) - \text{FS OF EMISSION}$$

METHOD OF MEASUREMENT: The procedure used was C63.4-1992 for intentional radiators. The spectrum was scanned from 30 to at least the tenth harmonic of the fundamental using a HP model 8566B spectrum analyzer, an Eaton model 94455-1 Biconical Antenna, ElectroMetrics antennas models TDA, TDS-25-1, TDS-25-2 and RGA-180. Measurements were made at the open field test site of TIMCO ENGINEERING INC. located at 849 N.W. State Road 45, Newberry, FL 32669.

APPLICANT: WOOIL TELCOM CO., LTD.

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