

FIELD STRENGTH OF SPURIOUS RADIATION

Test Date: January 18, 1999
 UST Project: 98-280
 Customer: RELM Communications
 Model: S Series (Models SRU50A, SRU50B, & SRU50C)

12.5 kHz Channel Bandwidth

FCC Minimum Standard: $50 + 10 \log (58.6) = 67.6 \text{ dB}$

Fundamental = Corrected Reading in Far Field (30m) = 17.2 dBm

FREQ (MHz)	MEASUREMENT @ 3 m (dBm)*	CORRECTION AF + CL + AMP GAIN	CORRECTED MEASUREMENT @ 30 m (dBm)	ATTENUATED LEVEL BELOW CARRIER POWER (dB)
900.0	-76.0	30.5	-65.5	82.7
1350.0	-33.4	-6.1	-59.5	76.7
1800.0	-49.6	-3.8	-73.4	90.6
2250.0	-29.7	-1.2	-50.9	68.1
2700.0	-45.1	0.6	-64.5	81.7
3150.0	-43.6	1.4	-62.2	79.4
3600.0	-48.2	3.0	-65.2	82.4
4050.0	-57.8	4.7	-74.8	92.0
4500.0	-61.3	4.3	-77.0	94.2

SAMPLE CALCULATION:

Results dBm @ 30 m:

$$-76.0 + 30.5 - 20 = -65.5$$

CONVERSION FROM 3 METERS TO 30 METERS = 20 dB

* = Measurements were made with a 50Ω termination connected to the antenna port.

Results

Reviewed By: _____ Name: Tim R. Johnson