



COMPANY NAME: COM NET ERICSSON.
 EUT: UHF-M SPLIT 450-488 MHz PANTHER 300M
 CLIENT REFERENCE NUMBER: QRTL00-257
 WORK ORDER NUMBER: 2000279
 FCC ID: OWDTR-0005-A

4.0 FCC Rules and Regulations Part 2 §2.1053 (a): Field strength of spurious radiation

4.1 Test Procedure

ANSI/TIA/EIA-603-1992, section 2.2.12

The transmitter is terminated with a 50 Ω load and is modulated with a 2,500 Hz sine wave at an input level 16 dB greater than that required to produce 50% of the rated system deviation at 1000 Hz.

Refer to section “Radiated Measurement” in this report for further information.

4.2 Test Data

4.2.1 CFR 47 Part 90.210 Requirements

The worst-case emissions test data are shown. The magnitude of emissions attenuated more than 20 dB below the FCC limit need not be recorded.

40 W 25 kHz						
Radiated Emissions (Channel 3 at 487.975MHz)						
Substitution Method						
Frequency	S/G level (dBm)	Cable Loss*	Difference in gain (ref. To 1/2 wave dipole)	Emission level (dBm)	Limit (dBm) Mask B	Margin
975.95	-30.7	0.84	1.35	-32.9	-13	-19.9
1463.925	-39.6	1.16	-6.45	-34.3	-13	-21.3
1951.9	-41.1	1.16	-4.8	-37.5	-13	-24.5
2439.875	-35.2	1.33	-5.1	-31.4	-13	-18.4
2927.85	-43.7	1.83	-6.1	-39.4	-13	-26.4
3415.825	-41.4	2.5	-6.1	-37.8	-13	-24.8
3903.8	-31.3	3.34	-5.9	-28.7	-13	-15.7
4391.775	-36.7	3.84	-6.8	-33.7	-13	-20.7
4879.75	-38.5	4	-7	-35.5	-13	-22.5



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20W 12.5kHz						
Radiated Emissions (Channel 6 at 487.975MHz) Substitution Method						
Frequency	ERP S/G level (dBm)	Cable Loss*	Difference in gain (ref. to 1/2 wave dipole)	Emission level (dBm)	Limit (dBm) Mask D	Margin
975.95	-36.2	0.84	1.35	-38.4	-20	-18.4
1463.925	-44.3	1.16	-6.45	-39.0	-20	-19.0
1951.9	-38.2	1.16	-4.8	-34.6	-20	-14.6
2439.875	-38.9	1.33	-5.1	-35.1	-20	-15.1
2927.85	-46.5	1.83	-6.1	-42.2	-20	-22.2
3415.825	-43.1	2.5	-6.1	-39.5	-20	-19.5
3903.8	-36	3.34	-5.9	-33.4	-20	-13.4
4391.775	-39.9	3.84	-6.8	-36.9	-20	-16.9
4879.75	-45.9	4	-7	-42.9	-20	-22.9

*This insertion loss corresponds to the cable connecting the RF Signal Generator to the ½ wave dipole antenna.

4.2.2 IC RSS-119 Requirements

30W Panther 300M Spurious Radiated measurements

Channel 2

Frequency (MHz)	Spectrum Analyzer Level (dBuV)	Signal Generator level (dBm)	TX Antenna Gain (dBi)	Corrected to ½ wave dipole	Cable Loss* (dB)	Corrected S/G level (dBm)	Limit (dBm)	Margin (dB)
939.94	58.9	-30.4	-0.02	-2.17	1.4	-35.0	-13	-22.0
1409.925	101.5	-42	6.98	4.83	0.2	-37.4	-13	-24.4
1879.94	112.33	-27.9	6.38	4.23	0.3	-24.0	-13	-11.0
2349.925	101.17	-45.3	7.91	5.76	0.4	-39.9	-13	-26.9
2819.91	110.33	-36.9	8.81	6.66	0.3	-30.5	-13	-17.5
3289.895	102.33	-39	9.18	7.03	0.2	-32.2	-13	-19.2
3759.88	105.5	-33.6	9.21	7.06	0.4	-26.9	-13	-13.9
4229.865	86.5	-45.2	9.69	7.54	0.4	-38.1	-13	-25.1
4699.85	95	-38.8	10.35	8.2	0.7	-31.3	-13	-18.3



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Channel 5

Frequency (MHz)	Spectrum Analyzer Level (dBuV)	Signal Generator level (dBm)	TX Antenna Gain (dBi)	Corrected to ½ wave dipole	Cable Loss* (dB)	Corrected S/G level (dBm)	Limit (dBm)	Margin (dB)
939.943	58.7	-30.7	-0.02	-2.17	1.4	-34.3	-20	-14.3
1409.925	102.67	-40.8	6.98	4.83	0.2	-36.2	-20	-16.2
1879.94	110.17	-29.9	6.38	4.23	0.3	-26.0	-20	-6.0
2349.925	105.17	-41.3	7.91	5.76	0.4	-35.9	-20	-15.9
2819.91	108.33	-35.7	8.81	6.66	0.3	-29.3	-20	-9.3
3289.895	104	-37.4	9.18	7.03	0.2	-30.6	-20	-10.6
3759.88	106.677	-32.5	9.21	7.06	0.4	-25.8	-20	-5.8
4229.865	83	-49.3	9.69	7.54	0.4	-42.2	-20	-22.2
4699.85	93.67	-40.2	10.35	8.2	0.7	-32.7	-20	-12.7

*This insertion loss corresponds to the cable connecting the RF Signal Generator to the ½ wave dipole antenna.

4.3 Test Equipment

Antenna: CHASE CBL6112 s/n 2099
 Amplifier: HP8449B s/n 3008A00505
 Spectrum analyzer: HP8564E s/n 3943A01719
 RF Signal Generator HP8648C s/n 3537A01741
 Synthesized Sweeper HP83752A s/n 3610A00846