

1. Test Result and Data

1.1. Test Result of Radiated Emission

Test Mode: X axis

Test Date: Nov. 10, 2004 Temperature: 26 Humidity: 59% Atmospheric Pressure: 991 mbar

a) Emission frequencies below 1 GHz

Frequency (MHz)	Ant-Pol H/V	Meter Reading (dBuV)	Corrected Factor (dB)	Result@3m (dBuV/m)	Limit@3m (dBuV/m)	Margin (dB)	Remark	Table Deg.	Ant High (m)
*434.20	H	85.69	-8.23	77.46	100.8	-23.34	Peak	290	1.0
*434.20	H	72.54	-8.23	64.31	80.8	-16.48	Ave	290	1.0
867.80	H	38.33	1.85	40.18	80.8	-40.62	Peak	70	1.0
867.80	H	25.18	1.85	27.03	60.8	-33.77	Ave	70	1.0
*434.40	V	79.90	-8.23	71.67	100.8	-29.13	Peak	272	1.5
*434.40	V	66.75	-8.23	58.52	80.8	-21.48	Ave	272	1.5
867.70	V	33.39	1.85	35.24	80.8	-45.56	Peak	85	1.5
867.70	V	20.24	1.85	22.09	60.8	-38.71	Ave	85	1.5

b) Emission frequencies above 1 GHz

Frequency (MHz)	Ant-Pol H/V	Meter Reading (dBuV)	Corrected Factor (dB)	Result@3m (dBuV/m)	Limit@3m (dBuV/m)	Margin (dB)	Remark	Table Deg.	Ant High (m)
1724.5	H	52.88	-3.56	49.32	74	-24.68	Peak	166	1.5
1301.0	V	56.27	-6.39	49.89	74	-24.11	Peak	120	1.5
1735.0	V	57.56	-4.09	53.47	74	-20.53	Peak	145	1.0
2169.0	V	52.59	-2.05	50.55	74	-23.45	Peak	130	1.0
2603.0	V	51.17	-0.53	50.65	74	-23.35	Peak	180	1.0

NOTE:

- (1) Result@3m (dBuV/m)= Meter Reading (dBuV) + Correction Factor(dB)
- (2) Correction Factor(dB) = Antenna Factor (dB) + Cable Factor (dB) – Amplifier (dB)
- (3) The other emission levels were very low against the limit.
- (4) Margin = Result@3m – Limit value.
- (5) “*” = Fundamental frequency
- (6) The average value of fundamental frequency is: Average = Peak value + 20log(Duty cycle)

Where the duty factor is calculated from following formula:

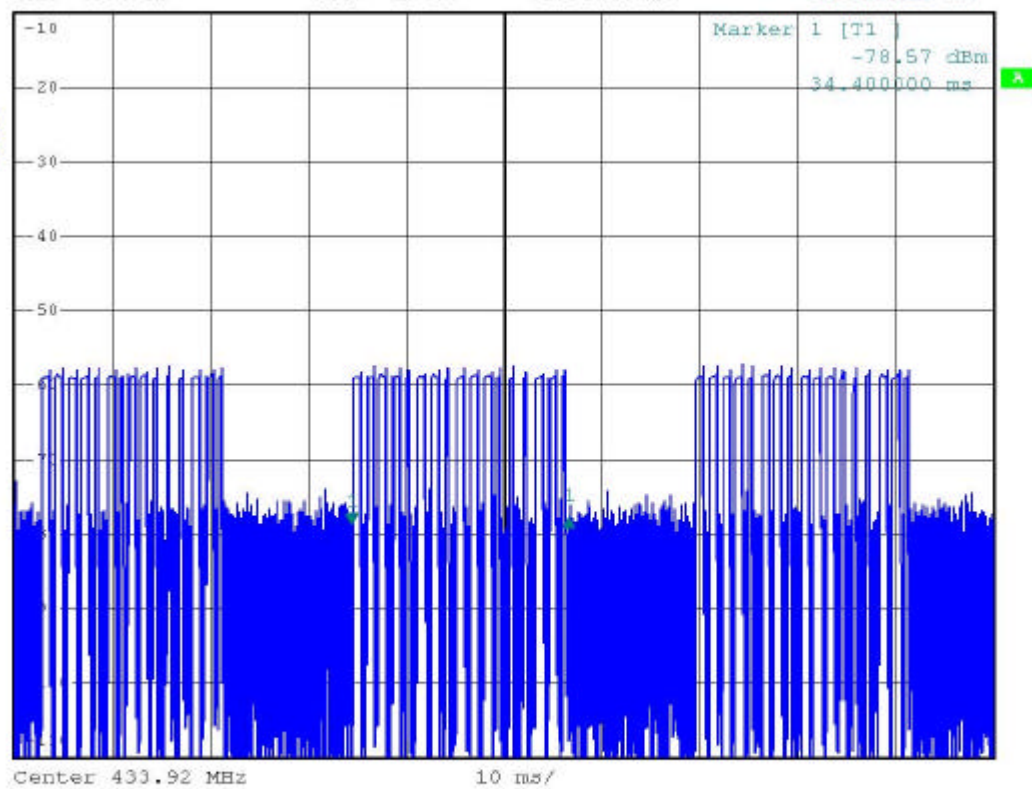
$$20\log (\text{Duty cycle}) = 20\log \frac{22\text{ms}}{100\text{ms}} = -13.15\text{dB}$$

please see next page.



RBW 100 kHz Delta 1 [T1]
*VBW 1 MHz 0.82 dB
Ref -10 dBm *Att 20 dB SWT 100 ms 22.200000 ms

1 X
VIEW



Date: 10.NOV.2004 07:31:41