



Appendix A

Transmitter Output Power According to FCC Part 2.1046 & Part 22.913



Conducted Power of Transmitter

TEST CONDITIONS	RF Output Power (Conducted)		
	Channel128(L)	Channel192(M)	Channel251(H)
	824.2MHz	837.0MHz	848.8MHz
	dBm	dBm	dBm
T_{nom} / V_{nom}	Measured	Measured	Measured
TM1	32.48	32.53	32.49
TM2	25.94	25.79	25.56



Effective Radiated Power of Transmitter (ERP)

Test Mode	Freq. [MHz]	Meas. Level [dBm]	Substitution Antenna Type	SGP [dBm]	Substitution Gain [dBd]	Cable Loss [dB]	Substitution Level (ERP)	FCC limit [dBm]	Result
							[dBm]		
TM1	824.2	31.53	Dipole Ant.	34.90	-2.75	0.6	31.55	38.5	Pass
TM1	837.0	31.58	Dipole Ant.	35.03	-2.87	0.6	31.56	38.5	Pass
TM1	848.8	31.54	Dipole Ant.	34.97	-2.85	0.6	31.52	38.5	Pass
TM2	824.2	24.99	Dipole Ant.	28.32	-2.75	0.6	24.97	38.5	Pass
TM2	837.0	24.84	Dipole Ant.	28.30	-2.87	0.6	24.83	38.5	Pass
TM2	848.8	24.61	Dipole Ant.	28.07	-2.85	0.6	24.62	38.5	Pass

Note: a, For getting the ERP (Efficient Radiated Power) in substitution method, the following formula should be taken to calculate it,

$$\text{ERP [dBm]} = \text{SGP [dBm]} - \text{Cable Loss [dB]} + \text{Gain [dBd]}$$

b, SGP=Signal Generator Level

-----The END-----