



Appendix A

Transmitter Output Power According to FCC Part 2.1046 & Part24.232



Conducted Power of Transmitter

TEST CONDITIONS		Channel9262(B)		Channel9400(M)		Channel9538(T)	
		1852.4MHz		1880.0MHz		1907.6MHz	
		dBm		dBm		dBm	
T _{nom} / V _{nom}		Measured	Limit	Measured	Limit	Measured	Limit
TM1		22.26	33	22.16	33	23.13	33
TM2	Case1	21.97	33	21.95	33	22.43	33
	Case2	21.71	33	21.66	33	22.24	33
	Case3	21.11	33	21.01	33	21.58	33
	Case4	20.82	33	20.86	33	21.66	33
TM3	Case1	21.35	33	21.23	33	21.42	33
	Case2	19.87	33	20.02	33	20.67	33
	Case3	20.36	33	20.65	33	21.08	33
	Case4	20.38	33	20.21	33	21.04	33
	Case5	21.19	33	21.21	33	21.53	33



Effective Isotropic Radiated Power of Transmitter (EIRP)

Test Mode	Freq. [MHz]	Meas. Level [dBm]	Substitution Antenna Type	SGP [dBm]	Substitution Gain [dBi]	Cable Loss [dB]	Substitution Level (EIRP)	FCC limit [dBm]	Result
							[dBm]		
TM1	1852.4	25.71	Horn Ant.	22.28	4.5	1	25.78	33	Pass
TM1	1880.0	25.61	Horn Ant.	22.23	4.5	1	25.73	33	Pass
TM1	1907.6	26.58	Horn Ant.	22.85	4.8	1	26.65	33	Pass

Note: a, For getting the EIRP (Efficient Isotropic Radiated Power) in substitution method, the following formula should take to calculate it,

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

b, SGP=Signal Generator Level

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