Appendix A

Transmitter Output Power
According to FCC Part 2.1046 &Part22.913

Report No:
SYBH(Z-RF)024032011-2003

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Page1, Total3

Conducted Power of Transmitter

Table 1 Measurement Results

TEST CONDITIONS		RF Output Power (Conducted)					
		Channel128(B) 824.2MHz		Channel192(M) 837.0MHz		Channel251(T) 848.8MHz	
		dBm		dBm		dBm	
T_{nom} / V_{nom}		Measured	Limit	Measured	Limit	Measured	Limit
TM1		31.85	38.5	31.62	38.5	31.41	38.5
TM2		25.91	38.5	25.85	38.5	25.71	38.5

TEST CONDITIONS		Channel4132(B) 826.4MHz		Channel4182(M) 836.4MHz		Channel4233(T) 846.6MHz	
		dBm		dBm		dBm	
T_{nom} / V_{nom}		Measured	Limit	Measured	Limit	Measured	Limit
TM3		21.85	38.5	221.71	38.5	21.75	38.5
TM4	Case1	21.55	38.5	21.45	38.5	21.52	38.5
	Case2	21.24	38.5	21.13	38.5	21.22	38.5
	Case3	20.67	38.5	20.66	38.5	20.68	38.5
	Case4	20.62	38.5	20.61	38.5	20.60	38.5
TM5	Case1	21.19	38.5	21.14	38.5	21.22	38.5
	Case2	19.51	38.5	19.62	38.5	19.65	38.5
	Case3	19.71	38.5	19.83	38.5	19.32	38.5
	Case4	19.41	38.5	19.72	38.5	19.71	38.5
	Case5	20.72	38.5	20.56	38.5	20.61	38.5

Report No:
SYBH(Z-RF)024032011-2003

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Page2, Total3

Effective Radiated Power of Transmitter (ERP)

Table 2 Substitution Results

Test Mode	Freq. [MHz]	Meas. Level [dBm]	Substitution Antenna Type	SGP [dBm]	Substitution Gain [dBd]	Cable Loss [dB]	Substitution Level (ERP) [dBm]	FCC limit [dBm]	Result
TM1	824.2	31.36	Dipole Ant.	36.06	-2.75	0.6	32.71	38.5	Pass
TM1	837.0	31.13	Dipole Ant.	35.6	-2.87	0.6	32.13	38.5	Pass
TM1	848.8	30.92	Dipole Ant.	35.8	-2.85	0.6	32.35	38.5	Pass
TM2	824.2	25.42	Dipole Ant.	30.49	-2.75	0.6	27.14	38.5	Pass
TM2	837.0	25.36	Dipole Ant.	30.43	-2.87	0.6	26.96	38.5	Pass
TM2	848.8	25.22	Dipole Ant.	28.57	-2.85	0.6	25.12	38.5	Pass
TM3	826.4	21.36	Dipole Ant.	26.2	-2.75	0.6	22.85	38.5	Pass
TM3	836.4	21.22	Dipole Ant.	26.78	-2.87	0.6	23.31	38.5	Pass
TM3	846.6	21.26	Dipole Ant.	26.66	-2.85	0.6	23.21	38.5	Pass

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

ERP [dBm] = SGP [dBm] – Cable Loss [dB] + Gain [dBd]

b, SGP=Signal Generator Level

The END

Report No:
SYBH(Z-RF)024032011-2003

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Page3, Total3