

10.MPE ESTIMATION

10.1.Limit for General Population/ Uncontrolled Exposures

Frequency	Power density (mW/ cm ²)	Averaging time(minutes)
300MHz----1.5GHz	F/1500	30
1.5GHz---100GHz	1.0	30

Frequency(MHz)	Power density (mW/ cm ²)	Averaging time(minutes)
2412	1	30
2437	1	30
2462	1	30

Note: F= Frequency in MHz Estimation Result

EUT: 300Mbps Wireless N Gigabit ADSL2+ Modem Router		
M/N:TD-W8970		
Test date: 2014-07-26	Pressure: 101.5±1.0 kpa	Humidity: 50.2±3.0%
Tested by: Eric_lv	Test site: RF site	Temperature:20.1±0.6

Cable loss: 1 dB		Attenuator loss: 20 dB				Antenna Gain: 5dBi	
Test Mode	CH	Frequency (MHz)	Peak Output Power (dBm)	Output Power (mW)	Antenna Gain (dBi)	Antenna Gain (Linear)	MPE
11b	CH1	2412	18.56	71.78	5	3.16	0.0143
	CH6	2437	16.31	42.76	5	3.16	0.0085
	CH11	2462	18.42	69.50	5	3.16	0.0138
11g	CH1	2412	23.14	206.06	5	3.16	0.0410
	CH6	2437	24.35	272.27	5	3.16	0.0542
	CH11	2462	22.42	174.58	5	3.16	0.0347
11n HT20	CH1	2412	23.62	230.14	5	3.16	0.0458
	CH6	2437	25.75	375.84	5	3.16	0.0748
	CH11	2462	19.66	92.47	5	3.16	0.0184
11n HT40	CH1	2422	23.22	209.89	5	3.16	0.0418
	CH4	2437	24.72	296.48	5	3.16	0.0590
	CH7	2452	22.8	190.55	5	3.16	0.0379

Antenna No.		Total	1	2
Tx Status			On	On
Frequency	MHz		850	2437
MPE Limit	mW/cm ²		0.57	1.00
Max % MPE	%	109.7	88.4	23.7
Power	(W)	2.376	2.000	0.376
Antenna Gain	dBi		1.00	5.00
EIRP	(W)	3.71	2.518	1.189
X	(cm)		-3.0	-9.0
Y	(cm)		16.0	11.0
Sector			FALSE	FALSE
Arc			FALSE	FALSE
θ_1	degs	input	-120	-120
θ_2			60	60
θ_1		actual	-120	-120
θ_2			60	60

