Neutron Engineering Inc.

FCC RF EXPOSURE REPORT

FCC ID: N89-WU172HS

Project No.	**: 1312C191**
Equipment	**: WLAN Module**
Model	**: T77H387.00**
Applicant	**: CyberTAN Technology Inc.**
Address	**: 99 Park Avenue III, Science Park, Hsinchu 308 Taiwan, R.O.C**
According:	**: FCC Guidelines for Human Exposure IEEE C95.1**

Neutron Engineering Inc.

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MPE CALCULATION METHOD:

Calculation Method of RF Safety Distance:

$$S = \frac{PG}{4\pi r^2} = \frac{EIRP}{4\pi r^2}$$

where:
S = power density
P = power input to the antenna
G = power gain of the antenna in the direction of interest relative to an isotropic radiator
R = distance to the center of radiation of the antenna

Table for Field Antenna:

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)	Note
1	Foxconn	425.00210.005	Intergral	N/A	2.05	TX/RX
2	Foxconn	425.00210.005	Intergra	N/A	2.05	TX/RX

Note:
(1)The EUT incorporates a MIMO function. Physically, the EUT provides two completed two transmitters and two receivers (2T2R).

Operating Mode / TX Mode	1TX	2TX
802.11b	-	V (ANT 1 + ANT 2)
802.11g	-	V (ANT 1 + ANT 2)
802.11n(20MHz)	-	V (ANT 1 + ANT 2)
802.11n(40MHz)	-	V (ANT 1 + ANT 2)

TEST RESULTS

EUT：	WLAN Module	Model Name	T77H387.00
Temperature：	24 ℃	Relative Humidity：	60 %
Pressure：	1016 hPa	Test Voltage ：	AC 120V/60Hz
Test Mode ：	TX B MODE/CH01, CH06, CH11/ ANT 1 + ANT 2		

Antenna Gain (dBi)	Antenna Gain (numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm^2)	Limit of Power Density (S) (mW/cm^2)	Test Result
2.05	1.6032	22.18	165.1962	0.05271696	1	Complies
2.05	1.6032	22.21	166.3413	0.05308238	1	Complies
2.05	1.6032	22.23	167.1091	0.05332740	1	Complies

EUT：	WLAN Module	Model Name	T77H387.00
Temperature：	24 ℃	Relative Humidity：	60 %
Pressure：	1016 hPa	Test Voltage ：	AC 120V/60Hz
Test Mode ：	TX G MODE/CH01, CH06, CH11/ANT 1 + ANT 2		

Antenna Gain (dBi)	Antenna Gain (numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm^2)	Limit of Power Density (S) (mW/cm^2)	Test Result
2.05	1.6032	26.41	437.5221	0.13962088	1	Complies
2.05	1.6032	26.48	444.6313	0.14188954	1	Complies
2.05	1.6032	26.39	435.5119	0.13897938	1	Complies

EUT：	WLAN Module	Model Name	T77H387.00
Temperature：	24 ℃	Relative Humidity：	60 %
Pressure：	1016 hPa	Test Voltage ：	AC 120V/60Hz
Test Mode ：	TX N-20M MODE/CH01, CH06, CH11/ANT 1 + ANT 2		

Antenna Gain (dBi)	Antenna Gain (numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm^2)	Limit of Power Density (S) (mW/cm^2)	Test Result
2.05	1.6032	26.72	469.8941	0.14995135	1	Complies
2.05	1.6032	26.71	468.8134	0.14960647	1	Complies
2.05	1.6032	26.80	478.6301	0.15273915	1	Complies

EUT：	WLAN Module	Model Name	T77H387.00
Temperature：	24 ℃	Relative Humidity：	60 %
Pressure：	1016 hPa	Test Voltage ：	AC 120V/60Hz
Test Mode ：	TX N-40M MODE/CH01, CH06, CH09/ANT 1 + ANT 2		

Antenna Gain (dBi)	Antenna Gain (numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm^2)	Limit of Power Density (S) (mW/cm^2)	Test Result
2.05	1.6032	25.74	374.9730	0.11966038	1	Complies
2.05	1.6032	25.73	374.1106	0.11938517	1	Complies
2.05	1.6032	25.76	376.7038	0.12021270	1	Complies

Note: The calculation distance is 20 cm.