Neutron Engineering Inc.

FCC RF EXPOSURE REPORT

FCC ID: W8UWF21

Project No.	**:** 1304C117
Equipment	**:** WIFI Module
Model	**:** WF21RL2510A
Applicant	**:** TTE Technology Inc.
Address	**:** 555 S. Promenade Ave., Suite 103, Corona, CA 92879, U.S.A.
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

Ant.	Brand name	Model Name	Antenna Type	Connector	Gain (dBi)
0	HUADECHANG	N/A	PIFA	N/A	2dBi
1	HUADECHANG	N/A	PIFA	N/A	2dBi

Operating Mode / TX Mode	1TX	2TX
802.11b	V (ANT1)	-
802.11g	V (ANT1)	-
802.11n(20MHz)	-	V (ANT0 & ANT1)
802.11n(40MHz)	-	V (ANT0 & ANT1)

TEST RESULTS

EUT：	WIFI Module	Model Name ：	WF21RL2510A
Temperature：	25 ℃	Relative Humidity：	60 %
Pressure：	1012 hPa	Test Voltage ：	AC 120V/60Hz
Test Mode ：	TX B MODE /CH01, CH06, CH11		

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	1.5849	17.35	54.3250	0.01713761	1	Complies
2	**1.5849**	**17.43**	**55.3350**	**0.01745623**	**1**	**Complies**
2	1.5849	17.24	52.9663	0.01670900	1	Complies

EUT：	WIFI Module	Model Name ：	WF21RL2510A
Temperature：	25 ℃	Relative Humidity：	60 %
Pressure：	1012 hPa	Test Voltage ：	AC 120V/60Hz
Test Mode ：	TX G MODE /CH01, CH06, CH11		

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	1.5849	21.21	132.1296	0.04168217	1	Complies
2	**1.5849**	**21.23**	**132.7394**	**0.04187457**	**1**	**Complies**
2	1.5849	21.18	131.2200	0.04139524	1	Complies

EUT：	WIFI Module	Model Name ：	WF21RL2510A
Temperature：	25 ℃	Relative Humidity：	60 %
Pressure：	1012 hPa	Test Voltage ：	AC 120V/60Hz
Test Mode ：	TX N-20M MODE /CH01, CH06, CH11 ANT0+ANT1		

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	1.5849	20.72	118.0321	0.03723492	1	Complies
2	1.5849	21.13	129.7179	0.04092139	1	Complies
2	**1.5849**	**21.43**	**138.9953**	**0.04384806**	**1**	**Complies**

EUT：	WIFI Module	Model Name ：	WF21RL2510A
Temperature：	25 ℃	Relative Humidity：	60 %
Pressure：	1012 hPa	Test Voltage ：	AC 120V/60Hz
Test Mode ：	TX N-40M MODE /CH03, CH06, CH09 ANT0+ANT1		

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	1.5849	20.43	110.4079	0.03482975	1	Complies
2	1.5849	20.35	108.3927	0.03419404	1	Complies
2	**1.5849**	**20.80**	**120.2264**	**0.03792716**	**1**	**Complies**