Neutron Engineering Inc.

FCC RF EXPOSURE REPORT

FCC ID: 2AANL-WL811

Project No.	**: 1310C016**
Equipment	**: WIFI Module**
Model	**: WL811**
Applicant	**: Long Ben(Dong Guan)Elec. Tech. Co., Ltd.**
Address	**: No.19, Jian She Road, Shi Ma Village, Tang Xia Town, Dong Guan, China**
According:	**: FCC Guidelines for Human Exposure IEEE C95.05.1**

Neutron Engineering Inc.

No.3, Jinshagang 1st Road, ShiXia, Dalang Town, Dong Guan, China.

TEL : (0769) 8318-3000 FAX : (0769) 8319-6000

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 Filed Antenna

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)	Note
1	N/A	N/A	Printed	N/A	1.61	

TEST RESULTS

EUT：	WIFI Module	Model Name ：	WL811
Temperature：	24 ℃	Relative Humidity：	60 %
Pressure：	1016 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
1.61	1.4488	19.63	91.8333	0.02648197	1	Complies
1.61	1.4488	19.81	95.7194	0.02760262	1	Complies
1.61	1.4488	19.53	89.7429	0.02587917	1	Complies

EUT：	WIFI Module	Model Name ：	WL811
Temperature：	24 ℃	Relative Humidity：	60 %
Pressure：	1016 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
1.61	1.4488	24.16	260.6154	0.07515370	1	Complies
1.61	1.4488	24.00	251.1886	0.07243532	1	Complies
1.61	1.4488	24.29	268.5344	0.07743733	1	Complies

EUT：	WIFI Module	Model Name ：	WL811
Temperature：	24 ℃	Relative Humidity：	60 %
Pressure：	1016 hPa	Test Voltage ：	AC 120V/60Hz
Test Mode ：	TX N20MHz 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
1.61	1.4488	23.86	243.2204	0.07013751	1	Complies
1.61	1.4488	24.04	253.5129	0.07310555	1	Complies
1.61	1.4488	23.79	239.3316	0.06901609	1	Complies

EUT：	WIFI Module	Model Name ：	WL811
Temperature：	24 ℃	Relative Humidity：	60 %
Pressure：	1016 hPa	Test Voltage ：	AC 120V/60Hz
Test Mode ：	TX N40MHz MODE CH03/CH06/CH09		

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
1.61	1.4488	22.04	159.9558	0.04612649	1	Complies
1.61	1.4488	22.01	158.8547	0.04580895	1	Complies
1.61	1.4488	22.48	177.0109	0.05104467	1	Complies

Note: the calculation distance is 20cm.