



Neutron Engineering Inc.

FCC RF EXPOSURE REPORT

FCC ID: QT72012THU0001

Project No. : 1211C174
Equipment : WIFI-DISK With Power Bank
Model : THU-WIFI-S250UN;STO-WIFI-S250UN;
CUR-WIFI-S250UN; CUR-WIFI-S250UN-NC
Applicant : Power7 Technology(DongGuan) Co., Ltd.
Address : No.28 Binjiang Blvd Shishuikou Village, Qiaotou
Town, Dongguan, China

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:

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

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	Model Name	Antenna Type	Connector	Gain (dBi)	Note
1	ECS	ECM A C BX 321610 S C	Chip	N/A	2.50	

TEST RESULTS

EUT:	WIFI-DISK With Power Bank	Model Name :	THU-WIFI-S250UN
Temperature:	24 °C	Relative Humidity:	60 %
Pressure:	1016 hPa	Test Voltage :	DC 3.7V
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
2.5	1.7783	16.46	44.2588	0.015666	1	Complies
2.5	1.7783	16.84	48.3059	0.017098	1	Complies
2.5	1.7783	16.35	43.1519	0.015274	1	Complies



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EUT :	WIFI-DISK With Power Bank	Model Name :	THU-WIFI-S250UN
Temperature :	24 °C	Relative Humidity :	60 %
Pressure :	1016 hPa	Test Voltage :	DC 3.7V
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
2.5	1.7783	20.44	110.6624	0.039170	1	Complies
2.5	1.7783	20.50	112.2018	0.039715	1	Complies
2.5	1.7783	20.30	107.1519	0.037927	1	Complies

EUT :	WIFI-DISK With Power Bank	Model Name :	THU-WIFI-S250UN
Temperature :	24 °C	Relative Humidity :	60 %
Pressure :	1016 hPa	Test Voltage :	DC 3.7V
Test Mode :	TX N-20 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
2.5	1.7783	20.31	107.3989	0.038015	1	Complies
2.5	1.7783	20.25	105.9254	0.037493	1	Complies
2.5	1.7783	20.33	107.8947	0.038190	1	Complies

EUT :	WIFI-DISK With Power Bank	Model Name :	THU-WIFI-S250UN
Temperature :	24 °C	Relative Humidity :	60 %
Pressure :	1016 hPa	Test Voltage :	DC 3.7V
Test Mode :	TX N-40 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
2.5	1.7783	18.86	76.9130	0.027224	1	Complies
2.5	1.7783	19.25	84.1395	0.029782	1	Complies
2.5	1.7783	19.39	86.8960	0.030757	1	Complies