



Neutron Engineering Inc.

FCC RF EXPOSURE REPORT

FCC ID: QT72013SPA0001

Project No. : 1306C128
Equipment : WIFI dongle for USB storage and Power Bank
Model : SPA-WIFI-USB
Applicant : Power7 Technology(Dong Guan) Co., Ltd.
**Address : No.28 BinJiang Street. ShiShuikou Village,
QiaoTou Town, DongGuan, GuangDong
Province P.R. China**

According: : FCC Guidelines for Human Exposure IEEE C95.1

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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 Filed Antenna

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)	Note
1	JOHANSON	2450AT18A100	Chip	N/A	0.5	

TEST RESULTS

EUT:	WIFI dongle for USB storage and Power Bank	Model Name :	SPA-WIFI-USB
Temperature:	25 °C	Relative Humidity:	58 %
Pressure:	1009 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
0.5	1.1220	18.12	64.8634	0.01448606	1	Complies
0.5	1.1220	18.04	63.6796	0.01422166	1	Complies
0.5	1.1220	17.43	55.3350	0.01235806	1	Complies



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EUT:	WIFI dongle for USB storage and Power Bank	Model Name :	SPA-WIFI-USB
Temperature:	25 °C	Relative Humidity:	58 %
Pressure:	1009 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
0.5	1.1220	21.45	139.6368	0.03118533	1	Complies
0.5	1.1220	21.35	136.4583	0.03047547	1	Complies
0.5	1.1220	20.72	118.0321	0.02636030	1	Complies

EUT:	WIFI dongle for USB storage and Power Bank	Model Name :	SPA-WIFI-USB
Temperature:	25 °C	Relative Humidity:	58 %
Pressure:	1009 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX N-20M 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
0.5	1.1220	21.36	136.7729	0.03054572	1	Complies
0.5	1.1220	20.94	124.1652	0.02773003	1	Complies
0.5	1.1220	19.81	95.7194	0.02137718	1	Complies

EUT:	WIFI dongle for USB storage and Power Bank	Model Name :	SPA-WIFI-USB
Temperature:	25 °C	Relative Humidity:	58 %
Pressure:	1009 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX N-40M 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
0.5	1.1220	21.25	133.3521	0.02978176	1	Complies
0.5	1.1220	21.33	135.8313	0.03033544	1	Complies
0.5	1.1220	20.54	113.2400	0.02529009	1	Complies