



Neutron Engineering Inc.

FCC RF EXPOSURE REPORT

FCC ID: T58WF2416R

Project No. : 1310C094
Equipment : 150Mbps Wireless N Portable Router
Model : WF2416
Applicant : NETIS SYSTEMS CO., LTD
**Address : 9F,B Block, Tsinghua Information Park,
High-tech Industrial Park, Nanshan, Shenzhen,
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:

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

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 | Model Name | Antenna Type | Connector | Gain (dBi) |
|------|----------------|-------------|--------------|-----------|------------|
| 1 | <i>RF link</i> | RF11C00011A | FPC Antenna | N/A | 1.64 |

TEST RESULTS

| | | | |
|--------------|------------------------------------|--------------------|--------------|
| EUT: | 150Mbps Wireless N Portable Router | Model Name : | WF2416 |
| Temperature: | 24 °C | 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 |
|--------------------|------------------------|-------------------------|------------------------|---|--|-------------|
| 1.64 | 1.4588 | 15.5800 | 36.1410 | 0.01049422 | 1 | Complies |
| 1.64 | 1.4588 | 15.3600 | 34.3558 | 0.00997586 | 1 | Complies |
| 1.64 | 1.4588 | 15.2600 | 33.5738 | 0.00974878 | 1 | Complies |



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|--------------|------------------------------------|--------------------|--------------|
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| Temperature: | 24 °C | 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 |
|--------------------|------------------------|-------------------------|------------------------|---|--|-------------|
| 1.64 | 1.4588 | 22.1200 | 162.9296 | 0.04730972 | 1 | Complies |
| 1.64 | 1.4588 | 22.1100 | 162.5549 | 0.04720091 | 1 | Complies |
| 1.64 | 1.4588 | 22.1900 | 165.5770 | 0.04807844 | 1 | Complies |

| | | | |
|--------------|------------------------------------|--------------------|--------------|
| EUT: | 150Mbps Wireless N Portable Router | Model Name : | WF2416 |
| Temperature: | 24 °C | Relative Humidity: | 60 % |
| Pressure: | 1016 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 |
|--------------------|------------------------|-------------------------|------------------------|---|--|-------------|
| 1.64 | 1.4588 | 22.7800 | 189.6706 | 0.05507448 | 1 | Complies |
| 1.64 | 1.4588 | 22.4700 | 176.6038 | 0.05128028 | 1 | Complies |
| 1.64 | 1.4588 | 22.5500 | 179.8871 | 0.05223365 | 1 | Complies |

| | | | |
|--------------|------------------------------------|--------------------|--------------|
| EUT: | 150Mbps Wireless N Portable Router | Model Name : | WF2416 |
| Temperature: | 24 °C | Relative Humidity: | 60 % |
| Pressure: | 1016 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 |
|--------------------|------------------------|-------------------------|------------------------|---|--|-------------|
| 1.64 | 1.4588 | 20.4200 | 110.1539 | 0.03198530 | 1 | Complies |
| 1.64 | 1.4588 | 20.2500 | 105.9254 | 0.03075745 | 1 | Complies |
| 1.64 | 1.4588 | 20.2200 | 105.1962 | 0.03054572 | 1 | Complies |