



America

Certification Exhibit

FCC ID: 2AIGCWFB003

FCC Rule Part: 47 CFR Part 2.1091

ACS Project Number: 72137771

Manufacturer: Murata Electronics
Model: PAC-USWHS002-WF-2

RF Exposure

General Information:

Applicant: Murata Electronics
 Device Category: Mobile
 Environment: General Population/Uncontrolled Exposure

Technical Information:

Antenna Type: Inverted-F Antenna
 Antenna Gain: 3.3 dBi
 Maximum Transmitter Conducted Power: 24.71 dBm, 295.8 mW
 Maximum System EIRP: 28.01 dBm, 632.41 mW
 Exposure Conditions: 20 centimeters or greater

MPE Calculation

The Power Density (mW/cm²) is calculated as follows:

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

Where:

S = power density (in appropriate units, e.g. mW/cm²)

P = power input to the antenna (in appropriate units, e.g., mW)

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 (appropriate units, e.g., cm)

Table 1: MPE Calculation

| Transmit Frequency (MHz) | Radio Power (dBm) | Power Density Limit (mW/Cm2) | Radio Power (mW) | Antenna Gain (dBi) | Antenna Gain (mW eq.) | Distance (cm) | Power Density (mW/cm^2) |
|--------------------------|-------------------|------------------------------|------------------|--------------------|-----------------------|---------------|-------------------------|
| 2412 | 24.71 | 1.00 | 295.80 | 3.3 | 2.138 | 20 | 0.126 |