



Certification Exhibit

FCC ID: 2AIGWFB004

FCC Rule Part: 47 CFR Part 2.1091

Project Number: 72185560

Manufacturer: Murata Electronics North America
Model Name/Number: PAC-USWHS002-WF-2

RF Exposure

General Information:

Applicant: Mitsubishi HVAC US
Device Category: Mobile
Environment: General Population/Uncontrolled Exposure

Technical Information (BLE) – “Device 1”:

Frequency Range (MHz): 2402 - 2480
Antenna Type: PCB Antenna
Antenna Gains: 3.3 dBi
Maximum Transmitter Conducted Power: 7.71dBm, 5.90mW
Maximum System EIRP: 11.01dBm, 12.62mW
Exposure Conditions: 20 centimeters

Technical Information (Wi-Fi 2.4 GHz IEEE 802.11 b/g/n) – “Device 2”:

Frequency Range (MHz): 2412 - 2462
Antenna Type: PCB Antenna
Antenna Gains: 3.3 dBi
Maximum Transmitter Conducted Power: 24.21dBm, 263.63mW
Maximum System EIRP: 27.51dBm, 563.64mW
Exposure Conditions: 20 centimeters

Note: The device does not support simultaneous transmissions

RF Exposure Calculation

Table 1: Device Characteristics

Technical Parameters	Device 1	Device 2
Frequency Range (GHz)	2.402 – 2.480	2.412 – 2.462
Frequency Range (MHz)	2402 - 2480	2412 - 2462
Separation Distance (cm)	20.00	20.0
Separation Distance (m)	0.2000	0.200
Antenna Gain (dBi)	3.30	3.30
ERP Easily Determined	YES	YES
Conducted Power (dBm)	7.71	24.21
Conducted Power (mW)	5.90	263.63
Duty Factor (Source-Based) %	100.0	100.0
Maximum (Source-Based) Time-Averaged Conducted Power (mW)	5.90	263.63
Maximum (Source-Based) Time-Averaged ERP (mW)	7.69	343.68
Maximum (Source-Based) Time-Averaged EIRP (mW)	12.62	563.64
Maximum Output (mW)	7.69	343.68

Table 2: 47 CFR 1.1307(b)(3)(i)(C) MPE-Based Exemption ERP (W)

Technical Parameters	Device 1	Device 2
$\lambda / 2\pi$ (m)	0.019	0.019
$R \geq \lambda / 2\pi$	YES	YES
Maximum (Source-Based) Time-Averaged ERP (W)	0.0077	0.3437
ERP Threshold (W)	0.7680	0.7680
Exemption	YES	YES