

FCC RF EXPOSURE REPORT

FCC ID: ACJ-V2CA

| Project No. | : | 2009C113 |
|-----------------------|---|--|
| Equipment | : | Wireless Module |
| Brand Name | : | Panasonic |
| Test Model | : | PIOT-V2(CA) |
| Series Model | : | N/A |
| Applicant | : | Panasonic Corporation of North America |
| Address | : | Two Riverfront Plaza, 9th Floor, Newark, NJ 07102-5490 |
| Manufacturer | : | China Hualu Panasonic AVC Networks Co., Ltd. |
| Address | : | No.1, Hua Road, Qixianling High Technology Zone Dalian, Liaoning |
| | | 116023 China. |
| Factory | : | China Hualu Panasonic AVC Networks Co., Ltd. |
| Address | : | No.1, Hua Road, Qixianling High Technology Zone Dalian, Liaoning |
| | | 116023 China. |
| Date of Receipt | : | Sep. 21, 2020 |
| Date of Test | : | Sep. 21, 2020 ~ Oct. 19, 2020 |
| Issued Date | : | Nov. 11, 2020 |
| Report Version | : | R01 |
| Test Sample | : | Engineering Sample No.: DG2020091750 |
| Standard(s) | : | FCC Guidelines for Human Exposure IEEE C95.1 & FCC Part 2.1091 FCC Title 47 Part 2.1091, OET Bulletin 65 Supplement C |

The above equipment has been tested and found compliance with the requirement of the relative standards by BTL Inc.

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Certificate #5123.02

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REPORT ISSUED HISTORY

| Report Version | Description | Issued Date |
|----------------|-------------------------------------|---------------|
| R00 | Original Issue. | Oct. 22, 2020 |
| R01 | Revised report to address comments. | Nov. 11, 2020 |





1. TEST FACILITY

The test facilities used to collect the test data in this report is at the location of No.3, Jinshagang 1st Road, Shixia, Dalang Town, Dongguan, Guangdong, China. BTL's Test Firm Registration Number for FCC: 357015 BTL's Designation Number for FCC: CN1240

2. 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) |
|------|-----------|-------------|--------------|-----------|------------|
| 1 | Panasonic | PIOT-V2(CA) | Printed | N/A | -0.71 |
| 2 | Panasonic | PIOT-V2(CA) | Printed | N/A | 0.31 |

Note:

(1) Smart antenna system with two transmit/receive chains, but operating in a mode where only one transmit/receive chain is used.

(2) Ant.1 refers to main antenna, Ant.2 refers to aux antenna.

(3) Both Ant.1 and Ant.2 had been tested, but the data of Ant.2 were the worst case, so only data of Ant.2 had been recorded of the test results.



3. TEST RESULTS

| Tune up tolerance(dBm) | | | |
|------------------------|--------|--|--|
| LE | 2.4GHz | | |
| ≤8.00 | ≤26.00 | | |

For LE:

| Antenna Gain (dBi) | Antenna Gain (numeric) | Max. Peak Output Power (dBm) | Max. Peak Output Power (mW) | Power Density (S) (mW/cm ²) | Limit of Power Density (S) (mW/cm ²) | Test Result |
|-----------------------|------------------------------|------------------------------------|-----------------------------------|--|--|-------------|
| 0.31 | 1.0740 | 8.00 | 6.3096 | 0.00135 | 1 | Complies |

For 2.4GHz:

| Antenna Gain (dBi) | Antenna Gain (numeric) | Max. Peak Output Power (dBm) | Max. Peak Output Power (mW) | Power Density (S) (mW/cm ²) | Limit of Power Density (S) (mW/cm ²) | Test Result |
|-----------------------|------------------------------|------------------------------------|-----------------------------------|--|--|-------------|
| 0.31 | 1.0740 | 26.00 | 398.1072 | 0.08510 | 1 | Complies |

Note: The calculated distance is 20 cm.

Output power including tune up tolerance.

End of Test Report