

**FCC Part 1.1310**  
**Part 2.1091**  
**RF Exposure Evaluation REPORT**

For

**FCC ID : TVE-FON780B**

**Model : FON-780B**

**Report Type : Original Report**

**Product Name : FortiFone 780B**

**Report Number : RXZ250213056SA01**

**Report Date : 2025-05-09**

**Prepared By : Bay Area Compliance Laboratories Corp. (New Taipei Laboratory)**

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Statement of Compliance

|                                       |                                                                                                                                                                                           |
|---------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Applicant (Certification Holder)      | Fortinet, Inc.                                                                                                                                                                            |
|                                       | 909 Kifer Road, Sunnyvale, CA 94086, USA                                                                                                                                                  |
| Brand (Trade) Name                    | FORTINET                                                                                                                                                                                  |
| Product (Equipment) Name              | FortiFone 780B                                                                                                                                                                            |
| Model Name                            | FON-780B                                                                                                                                                                                  |
| Series Model Name & Model Discrepancy | FON-780B, FON-780Bxxxxxxxxxx, FortiFone 780Bxxxxxxxxxx, FORTIFONE-780Bxxxxxxxxxx (where “x” can be used as “0-9”, or“A-Z”,or“_”, or blank for software changes or marketing purpose only) |
| EUT Received Date                     | 2025/03/24                                                                                                                                                                                |

Measurement Procedures and Standards Used:

- ☒ FCC Part 2.1091
- ☒ FCC Part 1 1.1310

The measurement results in this report were performed at Bay Area Compliance Laboratories Corp. (New Taipei Laboratory)

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Unless otherwise stated the results shown in this test report refer only to the sample(s) tested.

The determination of the test results does not require consideration of the uncertainty of the measurement, unless the assessment is required by customer agreement, regulation or standard document specification.

Bay Area Compliance Laboratories Corp. (New Taipei Laboratory) is not responsible for the authenticity of the information provided by the applicant that affects the test results.

Report Issued Date : 2025-05-09

Reviewed By : Anson Lu 

Revision History

| Revision | No.          | Report Number    | Issue Date | Description     | Author/<br>Revised by |
|----------|--------------|------------------|------------|-----------------|-----------------------|
| 0.0      | RXZ250213056 | RXZ250213056SA01 | 2025.05.09 | Original Report | Sean Chen             |

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# 1. General Information

## Product Description for Equipment under Test (EUT)

| <b>Product Name</b>                | FortiFone 780B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                |               |      |             |      |               |        |                |         |       |         |                |       |         |                |       |        |                |       |        |                |                |       |         |                |       |         |                |       |        |                |       |
|------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|---------------|------|-------------|------|---------------|--------|----------------|---------|-------|---------|----------------|-------|---------|----------------|-------|--------|----------------|-------|--------|----------------|----------------|-------|---------|----------------|-------|---------|----------------|-------|--------|----------------|-------|
| <b>Frequency Range</b>             | 2.4GHz :<br>802.11b : 2412 ~ 2462MHz<br>802.11g : 2412 ~ 2462MHz<br>802.11n HT20 : 2412 ~ 2462MHz<br>802.11n HT40 : 2422 ~ 2452MHz<br>BT(GFSK) : 2402 ~ 2480MHz<br>BT(p/4-DQPSK) : 2402 ~ 2480MHz<br>BT(8-DPSK) : 2402 ~ 2480MHz<br>BLE(1M) / BLE(2M) : 2402 ~ 2480MHz<br>5GHz :<br>5150 MHz ~ 5250 MHz, 5250 MHz ~ 5350 MHz<br>5470 MHz ~ 5725 MHz, 5725 MHz ~ 5850 MHz<br>Note: frequency range 5600-5650MHz can't be used in Canada                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                |               |      |             |      |               |        |                |         |       |         |                |       |         |                |       |        |                |       |        |                |                |       |         |                |       |         |                |       |        |                |       |
| <b>Maximum Tune-Up Power (dBm)</b> | 2.4GHz :<br>802.11b : 15.00 dBm<br>802.11g : 13.50 dBm<br>802.11n HT20 : 13.00 dBm<br>802.11n HT40 : 12.50 dBm<br>BT(GFSK) : 4.00 dBm<br>BT(p/4-DQPSK) : 7.50 dBm<br>BT(8-DPSK) : 7.50 dBm<br>BLE(1M) : 7.00 dBm<br>BLE(2M) : 7.00 dBm<br>5GHz : <table border="1"> <thead> <tr> <th>Band</th><th>Freq. range</th><th>Mode</th><th>Tune-Up Power</th></tr> </thead> <tbody> <tr> <td>UNII-1</td><td>5150 ~ 5250MHz</td><td rowspan="4">802.11a</td><td>13.50</td></tr> <tr> <td>UNII-2A</td><td>5250 ~ 5350MHz</td><td>13.50</td></tr> <tr> <td>UNII-2C</td><td>5470 ~ 5725MHz</td><td>13.00</td></tr> <tr> <td>UNII-3</td><td>5725 ~ 5850MHz</td><td>12.50</td></tr> <tr> <td>UNII-1</td><td>5150 ~ 5250MHz</td><td rowspan="4">802.11ac VHT20</td><td>13.00</td></tr> <tr> <td>UNII-2A</td><td>5250 ~ 5350MHz</td><td>13.50</td></tr> <tr> <td>UNII-2C</td><td>5470 ~ 5725MHz</td><td>12.50</td></tr> <tr> <td>UNII-3</td><td>5725 ~ 5850MHz</td><td>11.50</td></tr> </tbody> </table> |                |               | Band | Freq. range | Mode | Tune-Up Power | UNII-1 | 5150 ~ 5250MHz | 802.11a | 13.50 | UNII-2A | 5250 ~ 5350MHz | 13.50 | UNII-2C | 5470 ~ 5725MHz | 13.00 | UNII-3 | 5725 ~ 5850MHz | 12.50 | UNII-1 | 5150 ~ 5250MHz | 802.11ac VHT20 | 13.00 | UNII-2A | 5250 ~ 5350MHz | 13.50 | UNII-2C | 5470 ~ 5725MHz | 12.50 | UNII-3 | 5725 ~ 5850MHz | 11.50 |
| Band                               | Freq. range                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Mode           | Tune-Up Power |      |             |      |               |        |                |         |       |         |                |       |         |                |       |        |                |       |        |                |                |       |         |                |       |         |                |       |        |                |       |
| UNII-1                             | 5150 ~ 5250MHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 802.11a        | 13.50         |      |             |      |               |        |                |         |       |         |                |       |         |                |       |        |                |       |        |                |                |       |         |                |       |         |                |       |        |                |       |
| UNII-2A                            | 5250 ~ 5350MHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                | 13.50         |      |             |      |               |        |                |         |       |         |                |       |         |                |       |        |                |       |        |                |                |       |         |                |       |         |                |       |        |                |       |
| UNII-2C                            | 5470 ~ 5725MHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                | 13.00         |      |             |      |               |        |                |         |       |         |                |       |         |                |       |        |                |       |        |                |                |       |         |                |       |         |                |       |        |                |       |
| UNII-3                             | 5725 ~ 5850MHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                | 12.50         |      |             |      |               |        |                |         |       |         |                |       |         |                |       |        |                |       |        |                |                |       |         |                |       |         |                |       |        |                |       |
| UNII-1                             | 5150 ~ 5250MHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 802.11ac VHT20 | 13.00         |      |             |      |               |        |                |         |       |         |                |       |         |                |       |        |                |       |        |                |                |       |         |                |       |         |                |       |        |                |       |
| UNII-2A                            | 5250 ~ 5350MHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                | 13.50         |      |             |      |               |        |                |         |       |         |                |       |         |                |       |        |                |       |        |                |                |       |         |                |       |         |                |       |        |                |       |
| UNII-2C                            | 5470 ~ 5725MHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                | 12.50         |      |             |      |               |        |                |         |       |         |                |       |         |                |       |        |                |       |        |                |                |       |         |                |       |         |                |       |        |                |       |
| UNII-3                             | 5725 ~ 5850MHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                | 11.50         |      |             |      |               |        |                |         |       |         |                |       |         |                |       |        |                |       |        |                |                |       |         |                |       |         |                |       |        |                |       |

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|                                      |                            |                |                |       |
|--------------------------------------|----------------------------|----------------|----------------|-------|
|                                      | UNII-1                     | 5150 ~ 5250MHz | 802.11ac VHT40 | 12.00 |
|                                      | UNII-2A                    | 5250 ~ 5350MHz |                | 12.00 |
|                                      | UNII-2C                    | 5470 ~ 5725MHz |                | 11.00 |
|                                      | UNII-3                     | 5725 ~ 5850MHz |                | 11.00 |
|                                      | UNII-1                     | 5150 ~ 5250MHz | 802.11ac VHT80 | 13.50 |
|                                      | UNII-2A                    | 5250 ~ 5350MHz |                | 13.50 |
|                                      | UNII-2C                    | 5470 ~ 5725MHz |                | 12.50 |
|                                      | UNII-3                     | 5725 ~ 5850MHz |                | 12.00 |
| <b>Modulation Technique</b>          | 2.4GHz :                   |                |                |       |
|                                      | 802.11b : DSSS             |                |                |       |
|                                      | 802.11g : OFDM             |                |                |       |
|                                      | 802.11n HT20 / HT40 : OFDM |                |                |       |
|                                      | BT(GFSK) : GFSK            |                |                |       |
|                                      | BT(p/4-DQPSK) : p/4-DQPSK  |                |                |       |
|                                      | BT(8-DPSK) : 8-DPSK        |                |                |       |
|                                      | BLE(1M) / BLE(2M) : GFSK   |                |                |       |
| 5GHz :                               |                            |                |                |       |
| 802.11a : OFDM                       |                            |                |                |       |
| 802.11n HT20 / HT40 : OFDM           |                            |                |                |       |
| 802.11acVHT20 / VHT40 / VHT80 : OFDM |                            |                |                |       |

|                              |                                          |                    |                  |
|------------------------------|------------------------------------------|--------------------|------------------|
| <b>Antenna Specification</b> | Antenna Type : FPC Antenna               |                    |                  |
|                              | 2.4GHz Antenna maximum Gain : 4.1 dBi    |                    |                  |
|                              | 5GHz Antenna maximum Gain as the table : |                    |                  |
|                              | <b>Band</b>                              | <b>Freq. range</b> | <b>Mode</b>      |
|                              | UNII-1                                   | 5150 ~ 5250MHz     | 802.11a          |
|                              | UNII-2A                                  | 5250 ~ 5350MHz     |                  |
|                              | UNII-2C                                  | 5470 ~ 5725MHz     |                  |
|                              | UNII-3                                   | 5725 ~ 5850MHz     |                  |
|                              | UNII-1                                   | 5150 ~ 5250MHz     | 802.11ac VHT20   |
|                              | UNII-2A                                  | 5250 ~ 5350MHz     |                  |
|                              | UNII-2C                                  | 5470 ~ 5725MHz     |                  |
|                              | UNII-3                                   | 5725 ~ 5850MHz     |                  |
|                              | UNII-1                                   | 5150 ~ 5250MHz     | 802.11ac VHT40   |
|                              | UNII-2A                                  | 5250 ~ 5350MHz     |                  |
|                              | UNII-2C                                  | 5470 ~ 5725MHz     |                  |
|                              | UNII-3                                   | 5725 ~ 5850MHz     |                  |
|                              | UNII-1                                   | 5150 ~ 5250MHz     | 802.11ac VHT80   |
|                              | UNII-2A                                  | 5250 ~ 5350MHz     |                  |
|                              | UNII-2C                                  | 5470 ~ 5725MHz     |                  |
|                              | UNII-3                                   | 5725 ~ 5850MHz     |                  |
|                              |                                          |                    | <b>Ant. Gain</b> |
|                              |                                          |                    | 5.2              |
|                              |                                          |                    | 4.5              |
|                              |                                          |                    | 4.0              |
|                              |                                          |                    | 4.3              |
|                              |                                          |                    | 5.2              |
|                              |                                          |                    | 4.5              |
|                              |                                          |                    | 4.0              |
|                              |                                          |                    | 4.3              |
|                              |                                          |                    | 5.2              |
|                              |                                          |                    | 4.5              |
|                              |                                          |                    | 4.0              |
|                              |                                          |                    | 4.3              |

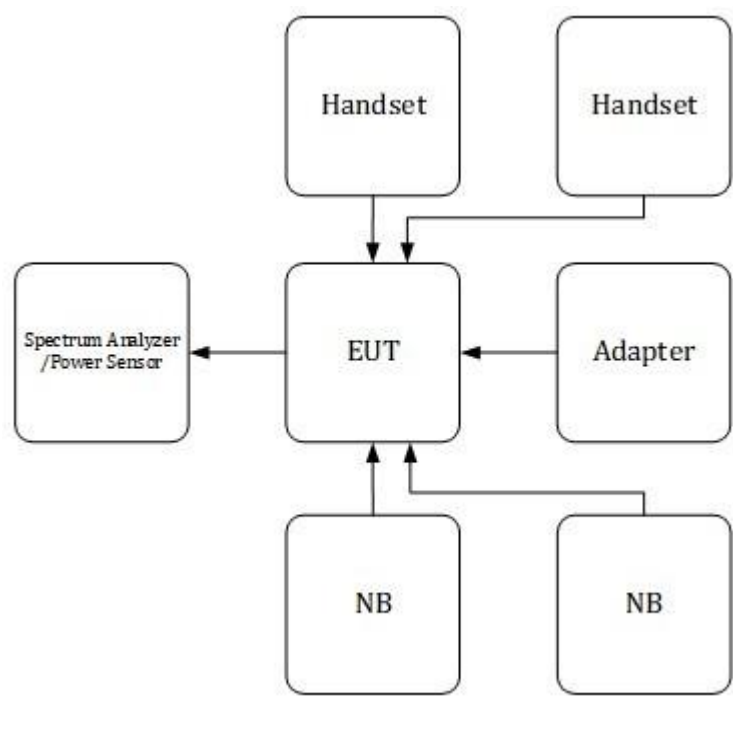
*\*All measurement and test data in this report was gathered from production sample serial number:  
RXZ250213056-1 (Assigned by BACL (New Taipei Laboratory)).*

## 2. RF Maximum Conducted Avg Power

Please refer to RF report No: RXZ250213056RF01/ RXZ250213056RF02/ RXZ250213056RF03.

| Mode       | Band    | Freq.(MHz) | Max. Conducted<br>Peak<br>Power (dBm) | Max. Conducted<br>Avg<br>Power (dBm) | Ant. Gain(dBi) |
|------------|---------|------------|---------------------------------------|--------------------------------------|----------------|
| 802.11b    | ---     | 2412       | 18.08                                 | 14.66                                | 4.1            |
| 802.11g    | ---     | 2412       | 23.14                                 | 13.28                                | 4.1            |
| 802.11n20  | ---     | 2412       | 23.35                                 | 12.79                                | 4.1            |
| 802.11n40  | ---     | 2437       | 23.04                                 | 12.37                                | 4.1            |
| 802.11a    | UNII-1  | 5200       | ---                                   | 13.47                                | 5.2            |
| 802.11a    | UNII-2A | 5320       | ---                                   | 13.46                                | 4.5            |
| 802.11a    | UNII-2C | 5500       | ---                                   | 12.69                                | 4.0            |
| 802.11a    | UNII-3  | 5745       | ---                                   | 12.14                                | 4.3            |
| 802.11ac20 | UNII-1  | 5240       | ---                                   | 12.94                                | 5.2            |
| 802.11ac20 | UNII-2A | 5320       | ---                                   | 13.14                                | 4.5            |
| 802.11ac20 | UNII-2C | 5500       | ---                                   | 12.28                                | 4.0            |
| 802.11ac20 | UNII-3  | 5745       | ---                                   | 11.49                                | 4.3            |
| 802.11ac40 | UNII-1  | 5230       | ---                                   | 11.85                                | 5.2            |
| 802.11ac40 | UNII-2A | 5310       | ---                                   | 11.98                                | 4.5            |
| 802.11ac40 | UNII-2C | 5550       | ---                                   | 10.91                                | 4.0            |
| 802.11ac40 | UNII-3  | 5755       | ---                                   | 10.69                                | 4.3            |
| 802.11ac80 | UNII-1  | 5210       | ---                                   | 13.13                                | 5.2            |
| 802.11ac80 | UNII-2A | 5290       | ---                                   | 13.22                                | 4.5            |
| 802.11ac80 | UNII-2C | 5530       | ---                                   | 12.41                                | 4.0            |
| 802.11ac80 | UNII-3  | 5775       | ---                                   | 11.58                                | 4.3            |
| BT1M       | ---     | 2402       | 3.82                                  | 3.57                                 | 4.1            |
| BT2M       | ---     | 2402       | 7.01                                  | 5.09                                 | 4.1            |
| BT3M       | ---     | 2402       | 7.04                                  | 5.13                                 | 4.1            |
| BLE(1M)    | ---     | 2402       | 6.57                                  | 6.48                                 | 4.1            |
| BLE(2M)    | ---     | 2402       | 6.71                                  | 6.58                                 | 4.1            |

Maximum conducted Avg power setup photo :



Maximum conducted Avg power Equipment List :

| Description                 | Manufacturer         | Model     | Serial Number | Calibration Date | Calibration Due Date |
|-----------------------------|----------------------|-----------|---------------|------------------|----------------------|
| Conducted Room              |                      |           |               |                  |                      |
| Spectrum Analyzer           | Rohde & Schwarz(R&S) | FSV40     | 101204        | 2024/5/30        | 2025/5/30            |
| Cable                       | UTIFLEX              | UFA210A   | 9435          | 2024/10/1        | 2025/10/1            |
| Real-Time Peak Power Sensor | Boonton              | RTP5006   | 11037         | 2024/5/21        | 2025/5/21            |
| Attenuator                  | MCL                  | BW-S10W5+ | 1419          | 2025/3/6         | 2026/3/6             |

### 3. FCC §1.1310 - RF Exposure

#### Applicable Standard

According to subpart §1.1310 (a) Specific absorption rate (SAR) shall be used to evaluate the environmental impact of human exposure to radiofrequency (RF) radiation as specified in §1.1307(b) of this part within the frequency range of 100 kHz to 6 GHz (inclusive).

§1.1310 (d)(2) For operations within the frequency range of 300 kHz and 6 GHz (inclusive), the limits for maximum permissible exposure (MPE), derived from whole-body SAR limits and listed in Table 1 in paragraph (e)(1) of this section, may be used instead of whole-body SAR limits as set forth in paragraphs (a) through (c) of this section to evaluate the environmental impact of human exposure to RF radiation as specified in §1.1307(b) of this part, except for portable devices as defined in §2.1093 of this chapter as these evaluations shall be performed according to the SAR provisions in §2.1093.

§1.1310 (d)(3) At operating frequencies above 6 GHz, the MPE limits listed in Table 1 in paragraph (e)(1) of this section shall be used in all cases to evaluate the environmental impact of human exposure to RF radiation as specified in §1.1307(b) of this part.

For single RF sources (*i.e.*, any single fixed RF source, mobile device, or portable device, as defined in paragraph (b)(2) of this section): A single RF source is exempt if:

(A) The available maximum time-averaged power is no more than 1 mW, regardless of separation distance. This exemption may not be used in conjunction with other exemption criteria other than those in paragraph (b)(3)(ii)(A) of this section.

Medical implant devices may only use this exemption and that in paragraph (b)(3)(ii)(A);

(B) Or the available maximum time-averaged power or effective radiated power (ERP), whichever is greater, is less than or equal to the threshold  $P_{th}$  (mW) described in the following formula. This method shall only be used at separation distances (cm) from 0.5 centimeters to 40 centimeters and at frequencies from 0.3 GHz to 6 GHz (inclusive).  $P_{th}$  is given by:

$$P_{th} \text{ (mW)} = \begin{cases} ERP_{20 \text{ cm}} (d/20 \text{ cm})^x & d \leq 20 \text{ cm} \\ ERP_{20 \text{ cm}} & 20 \text{ cm} < d \leq 40 \text{ cm} \end{cases}$$

Where

$$x = -\log_{10} \left( \frac{60}{ERP_{20 \text{ cm}} \sqrt{f}} \right) \text{ and } f \text{ is in GHz;}$$

and

$$ERP_{20 \text{ cm}} \text{ (mW)} = \begin{cases} 2040f & 0.3 \text{ GHz} \leq f < 1.5 \text{ GHz} \\ 3060 & 1.5 \text{ GHz} \leq f \leq 6 \text{ GHz} \end{cases}$$

(C) Or using Table 1 and the minimum separation distance (R in meters) from the body of a nearby person for the frequency (f in MHz) at which the source operates, the ERP (watts) is no more than the calculated value prescribed for that frequency. For the exemption in Table 1 to apply, R must be at least  $\lambda/2\pi$ , where  $\lambda$  is the free-space operating wavelength in meters. If the ERP of a single RF source is not easily obtained, then the available maximum time-averaged power may be

used in lieu of ERP if the physical dimensions of the radiating structure(s) do not exceed the electrical length of  $\lambda/4$  or if the antenna gain is less than that of a half-wave dipole (1.64 linear value).

Table 1 to § 1.1307(b)(3)(i)(C) - Single RF Sources Subject to Routine Environmental Evaluation

| RF Source frequency (MHz) | Threshold ERP (watts) |
|---------------------------|-----------------------|
| 0.3-1.34                  | $1,920 R^2$ .         |
| 1.34-30                   | $3,450 R^2/f^2$ .     |
| 30-300                    | $3.83 R^2$ .          |
| 300-1,500                 | $0.0128 R^2f$ .       |
| 1,500-100,000             | $19.2R^2$ .           |

### 3.1 RF Exposure Evaluation

| Mode       | Band    | Freq.<br>(MHz) | Max.<br>Conducted<br>Avg Power<br>(dBm)  | Tune-Up<br>Power<br>(dBm) | Antenna<br>Gain<br>(dBi) | Distance<br>(mm) | Tune-Up<br>Power<br>(mW) | Tune-Up<br>ERP<br>(dBm) | Tune-Up<br>ERP<br>(mW) |
|------------|---------|----------------|------------------------------------------|---------------------------|--------------------------|------------------|--------------------------|-------------------------|------------------------|
| 802.11b    | ---     | 2412           | 14.66                                    | 15.00                     | 4.1                      | 200              | 31.62                    | 16.95                   | 49.55                  |
| 802.11g    | ---     | 2412           | 13.28                                    | 13.50                     | 4.1                      | 200              | 22.39                    | 15.45                   | 35.08                  |
| 802.11n20  | ---     | 2412           | 12.79                                    | 13.00                     | 4.1                      | 200              | 19.95                    | 14.95                   | 31.26                  |
| 802.11n40  | ---     | 2437           | 12.37                                    | 12.50                     | 4.1                      | 200              | 17.78                    | 14.45                   | 27.86                  |
| 802.11a    | UNII-1  | 5200           | 13.47                                    | 13.50                     | 5.2                      | 200              | 22.39                    | 16.55                   | 45.19                  |
| 802.11a    | UNII-2A | 5320           | 13.46                                    | 13.50                     | 4.5                      | 200              | 22.39                    | 15.85                   | 38.46                  |
| 802.11a    | UNII-2C | 5500           | 12.69                                    | 13.00                     | 4.0                      | 200              | 19.95                    | 14.85                   | 30.55                  |
| 802.11a    | UNII-3  | 5745           | 12.14                                    | 12.50                     | 4.3                      | 200              | 17.78                    | 14.65                   | 29.17                  |
| 802.11ac20 | UNII-1  | 5240           | 12.94                                    | 13.00                     | 5.2                      | 200              | 19.95                    | 16.05                   | 40.27                  |
| 802.11ac20 | UNII-2A | 5320           | 13.14                                    | 13.50                     | 4.5                      | 200              | 22.39                    | 15.85                   | 38.46                  |
| 802.11ac20 | UNII-2C | 5500           | 12.28                                    | 12.50                     | 4.0                      | 200              | 17.78                    | 14.35                   | 27.23                  |
| 802.11ac20 | UNII-3  | 5745           | 11.49                                    | 11.50                     | 4.3                      | 200              | 14.13                    | 13.65                   | 23.17                  |
| 802.11ac40 | UNII-1  | 5230           | 11.85                                    | 12.00                     | 5.2                      | 200              | 15.85                    | 15.05                   | 31.99                  |
| 802.11ac40 | UNII-2A | 5310           | 11.98                                    | 12.00                     | 4.5                      | 200              | 15.85                    | 14.35                   | 27.23                  |
| 802.11ac40 | UNII-2C | 5550           | 10.91                                    | 11.00                     | 4.0                      | 200              | 12.59                    | 12.85                   | 19.28                  |
| 802.11ac40 | UNII-3  | 5755           | 10.69                                    | 11.00                     | 4.3                      | 200              | 12.59                    | 13.15                   | 20.65                  |
| 802.11ac80 | UNII-1  | 5210           | 13.13                                    | 13.50                     | 5.2                      | 200              | 22.39                    | 16.55                   | 45.19                  |
| 802.11ac80 | UNII-2A | 5290           | 13.22                                    | 13.50                     | 4.5                      | 200              | 22.39                    | 15.85                   | 38.46                  |
| 802.11ac80 | UNII-2C | 5530           | 12.41                                    | 12.50                     | 4.0                      | 200              | 17.78                    | 14.35                   | 27.23                  |
| 802.11ac80 | UNII-3  | 5775           | 11.58                                    | 12.00                     | 4.3                      | 200              | 15.85                    | 14.15                   | 26.00                  |
| BLE(1M)    | ---     | 2402           | 6.48                                     | 7.00                      | 4.1                      | 200              | 5.01                     | 8.95                    | 7.85                   |
| BLE(2M)    | ---     | 2402           | 6.58                                     | 7.00                      | 4.1                      | 200              | 5.01                     | 8.95                    | 7.85                   |
| Mode       | Band    | Freq.<br>(MHz) | Max.<br>Conducted<br>Peak Power<br>(dBm) | Tune-Up<br>Power<br>(dBm) | Antenna<br>Gain<br>(dBi) | Distance<br>(mm) | Tune-Up<br>Power<br>(mW) | Tune-Up<br>ERP<br>(dBm) | Tune-Up<br>ERP<br>(mW) |
| BT1M       | ---     | 2402           | 3.82                                     | 4.00                      | 4.1                      | 200              | 2.51                     | 5.95                    | 3.94                   |
| BT2M       | ---     | 2402           | 7.01                                     | 7.50                      | 4.1                      | 200              | 5.62                     | 9.45                    | 8.81                   |
| BT3M       | ---     | 2402           | 7.05                                     | 7.50                      | 4.1                      | 200              | 5.62                     | 9.45                    | 8.81                   |

**Note :** Distance 200mm is the minimum distance between the radiating structure of the RF source and the body of the user or nearby persons.

### 3.2 RF Exposure Evaluation Result

| Mode       | Band    | Freq. (MHz) | Max. Conducted Avg Power (dBm)  | Tune-Up Power (dBm) | Antenna Gain (dBi) | Tune-Up Power (mW) | Tune-Up ERP (dBm) | Tune-Up ERP (mW) |
|------------|---------|-------------|---------------------------------|---------------------|--------------------|--------------------|-------------------|------------------|
| 802.11b    | ---     | 2412        | 14.66                           | 15.00               | 4.1                | 31.62              | 16.95             | 49.55            |
| 802.11g    | ---     | 2412        | 13.28                           | 13.50               | 4.1                | 22.39              | 15.45             | 35.08            |
| 802.11n20  | ---     | 2412        | 12.79                           | 13.00               | 4.1                | 19.95              | 14.95             | 31.26            |
| 802.11n40  | ---     | 2437        | 12.37                           | 12.50               | 4.1                | 17.78              | 14.45             | 27.86            |
| 802.11a    | UNII-1  | 5200        | 13.47                           | 13.50               | 5.2                | 22.39              | 16.55             | 45.19            |
| 802.11ac20 | UNII-2A | 5320        | 13.14                           | 13.50               | 4.5                | 22.39              | 15.85             | 38.46            |
| 802.11ac40 | UNII-2A | 5310        | 11.98                           | 12.00               | 4.5                | 15.85              | 14.35             | 27.23            |
| 802.11ac80 | UNII-2A | 5290        | 13.22                           | 13.50               | 4.5                | 22.39              | 15.85             | 38.46            |
| BLE(1M)    | ---     | 2402        | 6.48                            | 7.00                | 4.1                | 5.01               | 8.95              | 7.85             |
| BLE(2M)    | ---     | 2402        | 6.58                            | 7.00                | 4.1                | 5.01               | 8.95              | 7.85             |
| Mode       | Band    | Freq. (MHz) | Max. Conducted Peak Power (dBm) | Tune-Up Power (dBm) | Antenna Gain (dBi) | Tune-Up Power (mW) | Tune-Up ERP (dBm) | Tune-Up ERP (mW) |
| BT1M       | ---     | 2402        | 3.82                            | 4.00                | 4.1                | 2.51               | 5.95              | 3.94             |
| BT2M       | ---     | 2402        | 7.01                            | 7.50                | 4.1                | 5.62               | 9.45              | 8.81             |
| BT3M       | ---     | 2402        | 7.05                            | 7.50                | 4.1                | 5.62               | 9.45              | 8.81             |

**Note :** The mode selection is to choose the worst case of each band.

§ 1.1307(b)(3)(i)(A) method is not applicable.

§ 1.1307(b)(3)(i)(C)

| Mode       | Freq.(MHz) | $\lambda/2\pi$ (mm) | Distance applies | ERP Limit (mW) | Result |
|------------|------------|---------------------|------------------|----------------|--------|
| 802.11b    | 2412       | 19.8                | apply            | 768.00         | exempt |
| 802.11g    | 2412       | 19.8                | apply            | 768.00         | exempt |
| 802.11n20  | 2412       | 19.8                | apply            | 768.00         | exempt |
| 802.11n40  | 2437       | 19.59               | apply            | 768.00         | exempt |
| 802.11a    | 5200       | 9.18                | apply            | 768.00         | exempt |
| 802.11ac20 | 5320       | 8.97                | apply            | 768.00         | exempt |
| 802.11ac40 | 5310       | 8.99                | apply            | 768.00         | exempt |
| 802.11ac80 | 5290       | 9.03                | apply            | 768.00         | exempt |
| BLE(1M)    | 2402       | 19.88               | apply            | 768.00         | exempt |
| BLE(2M)    | 2402       | 19.88               | apply            | 768.00         | exempt |
| BT1M       | 2402       | 19.56               | apply            | 768.00         | exempt |

Note: It may not be duplicated or used in part without prior written consent from Bay Area Compliance Laboratories Corp. (New Taipei Laboratory)

|      |      |       |       |        |        |
|------|------|-------|-------|--------|--------|
| BT2M | 2402 | 19.88 | apply | 768.00 | exempt |
| BT3M | 2402 | 19.88 | apply | 768.00 | exempt |

The minimum separation distance (R in meters) from the body of a nearby person for the frequency (f in MHz) at which the source operates

ERP (watts) is no more than the calculated value prescribed for that frequency

R must be at least  $\lambda / 2\pi$

$\lambda$  is the free-space operating wavelength in meters

**Note:**

The Tune-up output power was declared by the Applicant.

The WIFI 2.4GHz and WIFI 5GHz(or Bluetooth or BLE) cannot transmit simultaneously.

**Result: Compliance.**

**\*\*\*\*\* END OF REPORT \*\*\*\*\***