

# TEST REPORT

## CERTIFICATE OF CONFORMITY

**Standard:** 47 CFR FCC Part 15, Subpart C (Section 15.247)  
**Report No.:** RFBARR-WTW-P24120359-4  
**FCC ID:** RAS-MT7925B14LA  
**Product:** 2TX 11be (WiFi7) BW160 + BT/BLE Combo Card  
**Brand:** MediaTek  
**Model No.:** MT7925B14LA  
**Received Date:** 2024/12/11  
**Test Date:** 2024/12/19 ~ 2025/3/25  
**Issued Date:** 2025/4/7  
**Applicant:** MediaTek Inc.  
**Address:** No. 1, Dusing 1st Rd., Hsinchu Science Park, Hsinchu City, 30078 Taiwan  
**Issued By:** Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch  
Hsin Chu Laboratory  
**Lab Address:** E-2, No.1, Li Hsin 1st Road, Hsinchu Science Park, Hsinchu City 300, Taiwan  
**Test Location:** E-2, No.1, Li Hsin 1st Road, Hsinchu Science Park, Hsinchu City 300, Taiwan  
**FCC Registration /** 723255 / TW2022  
**Designation Number:**

**Approved by:** \_\_\_\_\_, **Date:** 2025/4/7  
May Chen / Manager

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Prepared by: Vito Lung / Specialist

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## Release Control Record

| Issue No.              | Description       | Date Issued |
|------------------------|-------------------|-------------|
| RFBARR-WTW-P24120359-4 | Original release. | 2025/4/7    |

## 1 Certificate

**Product:** 2TX 11be (WiFi7) BW160 + BT/BLE Combo Card

**Brand:** MediaTek

**Test Model:** MT7925B14LA

**Sample Status:** Engineering sample

**Applicant:** MediaTek Inc.

**Test Date:** 2024/12/19 ~ 2025/3/25

**Standard:** 47 CFR FCC Part 15, Subpart C (Section 15.247)

**Measurement** ANSI C63.10-2013

**procedure:** KDB 558074 D01 15.247 Meas Guidance v05r02

The above equipment has been tested by **Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch**, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's RF characteristics under the conditions specified in this report.

## 2 Summary of Test Results

| 47 CFR FCC Part 15, Subpart C (Section 15.247) |                                 |        |                                                            |
|------------------------------------------------|---------------------------------|--------|------------------------------------------------------------|
| Standard / Clause                              | Test Item                       | Result | Remark                                                     |
| 15.247(b)                                      | RF Output Power                 | Pass   | Meet the requirement of limit.                             |
| 15.247(e)                                      | Power Spectral Density          | Pass   | Meet the requirement of limit.                             |
| 15.247(a)(2)                                   | 6 dB Bandwidth                  | Pass   | Meet the requirement of limit.                             |
| 15.247(d)                                      | Conducted Out of Band Emissions | Pass   | Meet the requirement of limit.                             |
| 15.207                                         | AC Power Conducted Emissions    | Pass   | Minimum passing margin is -8.80 dB at 0.15012 MHz          |
| 15.205 /<br>15.209 /<br>15.247(d)              | Unwanted Emissions below 1 GHz  | Pass   | Minimum passing margin is -1.5 dB at 696.03 MHz            |
| 15.205 /<br>15.209 /<br>15.247(d)              | Unwanted Emissions above 1 GHz  | Pass   | Minimum passing margin is -2.61 dB at 23800.9 MHz          |
| 15.203                                         | Antenna Requirement             | Pass   | Antenna connector is i-pex(MHF), not a standard connector. |

Note: Determining compliance based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

### 2.1 Measurement Uncertainty

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

| Measurement                     | Specification    | Expanded Uncertainty (k=2)<br>(±) |
|---------------------------------|------------------|-----------------------------------|
| RF Output Power                 | -                | 1.1 dB                            |
| Power Spectral Density          | -                | 1.3 dB                            |
| 6 dB Bandwidth                  | -                | 1050.00 Hz                        |
| Conducted Out of Band Emissions | 9 kHz ~ 40 GHz   | 2.6 dB                            |
| AC Power Conducted Emissions    | 150 kHz ~ 30 MHz | 1.9 dB                            |
| Unwanted Emissions below 1 GHz  | 9 kHz ~ 30 MHz   | 3.1 dB                            |
|                                 | 30 MHz ~ 1 GHz   | 5.5 dB                            |
| Unwanted Emissions above 1 GHz  | 1 GHz ~ 18 GHz   | 5.1 dB                            |
|                                 | 18 GHz ~ 40 GHz  | 5.3 dB                            |

The other instruments specified are routine verified to remain within the calibrated levels, no measurement uncertainty is required to be calculated.

### 2.2 Supplementary Information

There is not any deviation from the test standards for the test method, and no modifications required for compliance.

### 3 General Information

#### 3.1 General Description

|                       |                                            |
|-----------------------|--------------------------------------------|
| Product               | 2TX 11be (WiFi7) BW160 + BT/BLE Combo Card |
| Brand                 | MediaTek                                   |
| Test Model            | MT7925B14LA                                |
| Status of EUT         | Engineering sample                         |
| Power Supply Rating   | 3.3 Vdc from host equipment                |
| Modulation Type       | GFSK                                       |
| Modulation Technology | DTS                                        |
| Transfer Rate         | 125 kbps / 500 kbps / 1 Mbps / 2 Mbps      |
| Operating Frequency   | 2.402 GHz ~ 2.48 GHz                       |
| Number of Channel     | 40                                         |
| Output Power          | 17.378 mW (12.4 dBm)                       |

Note:

1. There are Bluetooth and WLAN (2.4 GHz & 5 GHz & 5.9 GHz & 6 GHz) technology used for the EUT.
2. Simultaneously transmission combination.

| Combination | Technology           |                      |
|-------------|----------------------|----------------------|
| 1           | WLAN (5 GHz) (2TX)   | Bluetooth            |
| 2           | WLAN (5.9 GHz) (2TX) | Bluetooth            |
| 3           | WLAN (6 GHz) (2TX)   | Bluetooth            |
| 4           | WLAN (2.4 GHz) (1TX) | WLAN (5 GHz) (1TX)   |
| 5           | WLAN (2.4 GHz) (1TX) | WLAN (5.9 GHz) (1TX) |
| 6           | WLAN (2.4 GHz) (1TX) | WLAN (6 GHz) (1TX)   |

Note: The emission of the simultaneous operation has been evaluated and no non-compliance was found.

3. The above EUT information is declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications or User's Manual.

### 3.2 Antenna Description of EUT

1. The antenna information is listed as below.

| Antenna Set | RF Chain NO. | Brand | Model              | Antenna Net Gain (dBi)                       | Frequency Range (GHz)                                                                            | Antenna Type | Connector Type | Cable Length (mm) |
|-------------|--------------|-------|--------------------|----------------------------------------------|--------------------------------------------------------------------------------------------------|--------------|----------------|-------------------|
| 1           | Chain0       | PSA   | RFMTA311020EMMB301 | 1.71<br>4.82<br>4.76<br>4.29<br>4.61<br>4.09 | 2.4 ~ 2.4835<br>5.15 ~ 5.895<br>5.925 ~ 6.425<br>6.425 ~ 6.525<br>6.525 ~ 6.875<br>6.875 ~ 7.125 | PIFA         | i-pex(MHF)     | 200               |
|             | Chain1       | PSA   | RFMTA311020EMMB301 | 1.71<br>4.82<br>4.76<br>4.29<br>4.61<br>4.09 | 2.4 ~ 2.4835<br>5.15 ~ 5.895<br>5.925 ~ 6.425<br>6.425 ~ 6.525<br>6.525 ~ 6.875<br>6.875 ~ 7.125 | PIFA         | i-pex(MHF)     | 200               |
| 2           | Chain0       | INPAQ | RFFPA493517EMAB901 | 6.19                                         | 2.4 ~ 2.4835                                                                                     | PIFA         | i-pex(MHF)     | 125               |
|             | Chain1       | INPAQ | RFFPA493517EMAB901 | 6.19                                         | 2.4 ~ 2.4835                                                                                     | PIFA         | i-pex(MHF)     | 125               |
| 3           | Chain0       | INPAQ | RFFPA494517EM5B901 | 8.37                                         | 5.15 ~ 5.925                                                                                     | PIFA         | i-pex(MHF)     | 125               |
|             | Chain1       | INPAQ | RFFPA494517EM5B901 | 8.37                                         | 5.15 ~ 5.925                                                                                     | PIFA         | i-pex(MHF)     | 125               |
| 4           | Chain0       | INPAQ | RFFPA494217EM6B901 | 8.37                                         | 5.925 ~ 7.125                                                                                    | PIFA         | i-pex(MHF)     | 125               |
|             | Chain1       | INPAQ | RFFPA494217EM6B901 | 8.37                                         | 5.925 ~ 7.125                                                                                    | PIFA         | i-pex(MHF)     | 125               |
| 5           | Chain0       | PSA   | RFMTA421230IMMB701 | -13.92<br>-13.91<br>-13.91<br>-14.46         | 5.925 ~ 6.425<br>6.425 ~ 6.525<br>6.525 ~ 6.875<br>6.875 ~ 7.125                                 | PIFA         | i-pex(MHF)     | 300               |
|             | Chain1       | PSA   | RFMTA421230IMMB701 | -13.92<br>-13.91<br>-13.91<br>-14.46         | 5.925 ~ 6.425<br>6.425 ~ 6.525<br>6.525 ~ 6.875<br>6.875 ~ 7.125                                 | PIFA         | i-pex(MHF)     | 300               |

\* Detail antenna specification please refer to antenna datasheet and/or antenna measurement report.

### 3.3 Channel List

40 channels are provided for BT-LE:

| RF Channel | RF Center Frequency | Channel Index | Channels Type for BT 5.x     |                                                  |
|------------|---------------------|---------------|------------------------------|--------------------------------------------------|
|            |                     |               | 2Msym/s with Data Rate 2Mbps | 1Msym/s with Data Rate 1Mbps / 500kbps / 125kbps |
| 0          | 2402 MHz            | 37            | *                            | ●                                                |
| 1          | 2404 MHz            | 0             | ●                            | ●                                                |
| 2          | 2406 MHz            | 1             | ●                            | ●                                                |
| 3          | 2408 MHz            | 2             | ●                            | ●                                                |
| 4          | 2410 MHz            | 3             | ●                            | ●                                                |
| 5          | 2412 MHz            | 4             | ●                            | ●                                                |
| 6          | 2414 MHz            | 5             | ●                            | ●                                                |
| 7          | 2416 MHz            | 6             | ●                            | ●                                                |
| 8          | 2418 MHz            | 7             | ●                            | ●                                                |
| 9          | 2420 MHz            | 8             | ●                            | ●                                                |
| 10         | 2422 MHz            | 9             | ●                            | ●                                                |
| 11         | 2424 MHz            | 10            | ●                            | ●                                                |
| 12         | 2426 MHz            | 38            | *                            | ●                                                |
| 13         | 2428 MHz            | 11            | ●                            | ●                                                |
| 14         | 2430 MHz            | 12            | ●                            | ●                                                |
| 15         | 2432 MHz            | 13            | ●                            | ●                                                |
| 16         | 2434 MHz            | 14            | ●                            | ●                                                |
| 17         | 2436 MHz            | 15            | ●                            | ●                                                |
| 18         | 2438 MHz            | 16            | ●                            | ●                                                |
| 19         | 2440 MHz            | 17            | ●                            | ●                                                |
| 20         | 2442 MHz            | 18            | ●                            | ●                                                |
| 21         | 2444 MHz            | 19            | ●                            | ●                                                |
| 22         | 2446 MHz            | 20            | ●                            | ●                                                |
| 23         | 2448 MHz            | 21            | ●                            | ●                                                |
| 24         | 2450 MHz            | 22            | ●                            | ●                                                |
| 25         | 2452 MHz            | 23            | ●                            | ●                                                |
| 26         | 2454 MHz            | 24            | ●                            | ●                                                |
| 27         | 2456 MHz            | 25            | ●                            | ●                                                |
| 28         | 2458 MHz            | 26            | ●                            | ●                                                |
| 29         | 2460 MHz            | 27            | ●                            | ●                                                |
| 30         | 2462 MHz            | 28            | ●                            | ●                                                |
| 31         | 2464 MHz            | 29            | ●                            | ●                                                |
| 32         | 2466 MHz            | 30            | ●                            | ●                                                |
| 33         | 2468 MHz            | 31            | ●                            | ●                                                |
| 34         | 2470 MHz            | 32            | ●                            | ●                                                |
| 35         | 2472 MHz            | 33            | ●                            | ●                                                |
| 36         | 2474 MHz            | 34            | ●                            | ●                                                |
| 37         | 2476 MHz            | 35            | ●                            | ●                                                |
| 38         | 2478 MHz            | 36            | ●                            | ●                                                |
| 39         | 2480 MHz            | 39            | *                            | ●                                                |

\* The channels 2402 MHz, 2426 MHz and 2480 MHz are used for primary advertising only, and these advertisement packets are never being sent over the 2Msym/s.

### 3.4 Test Mode Applicability and Tested Channel Detail

|           |                                                                                                                                                                                                          |
|-----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Pre-Scan: | 1. Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture). |
|-----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

Following channel(s) was (were) selected for the final test as listed below:

| Test Item                                        | EUT Configure Mode | Mode                                                                         | Tested Channel | Modulation | Data Rate Parameter |
|--------------------------------------------------|--------------------|------------------------------------------------------------------------------|----------------|------------|---------------------|
| RF Output Power                                  | A                  | BT-LE 125k                                                                   | 0, 19, 39      | GFSK       | 125k/s              |
|                                                  |                    | BT-LE 500k                                                                   | 0, 19, 39      | GFSK       | 500k/s              |
|                                                  |                    | BT-LE 1M                                                                     | 0, 19, 39      | GFSK       | 1Mb/s               |
|                                                  |                    | BT-LE 2M                                                                     | 1, 19, 38      | GFSK       | 2Mb/s               |
| Power Spectral Density                           | A                  | BT-LE 125k                                                                   | 0, 19, 39      | GFSK       | 125k/s              |
|                                                  |                    | BT-LE 500k                                                                   | 0, 19, 39      | GFSK       | 500k/s              |
|                                                  |                    | BT-LE 1M                                                                     | 0, 19, 39      | GFSK       | 1Mb/s               |
|                                                  |                    | BT-LE 2M                                                                     | 1, 19, 38      | GFSK       | 2Mb/s               |
| 6 dB Bandwidth / Conducted Out of Band Emissions | A                  | BT-LE 125k                                                                   | 0, 19, 39      | GFSK       | 125k/s              |
|                                                  |                    | BT-LE 500k                                                                   | 0, 19, 39      | GFSK       | 500k/s              |
|                                                  |                    | BT-LE 1M                                                                     | 0, 19, 39      | GFSK       | 1Mb/s               |
|                                                  |                    | BT-LE 2M                                                                     | 1, 19, 38      | GFSK       | 2Mb/s               |
| AC Power Conducted Emissions                     | C                  | BT-LE 2M                                                                     | 1              | GFSK       | 2Mb/s               |
| Unwanted Emissions below 1 GHz                   | A, B               | BT-LE 2M                                                                     | 1              | GFSK       | 2Mb/s               |
| Unwanted Emissions above 1 GHz                   | A, B               | BT-LE 125k                                                                   | 0, 19, 39      | GFSK       | 125k/s              |
|                                                  |                    | BT-LE 500k                                                                   | 0, 19, 39      | GFSK       | 500k/s              |
|                                                  |                    | BT-LE 1M                                                                     | 0, 19, 39      | GFSK       | 1Mb/s               |
|                                                  |                    | BT-LE 2M                                                                     | 1, 19, 38      | GFSK       | 2Mb/s               |
| EUT Configure Mode:                              | A                  | EUT only (remove 50 ohm terminator and Connect to the appropriate equipment) |                |            |                     |
|                                                  | B                  | EUT with 50 ohm terminator                                                   |                |            |                     |
|                                                  | C                  | EUT with antenna (PIFA Antenna Set 2)                                        |                |            |                     |

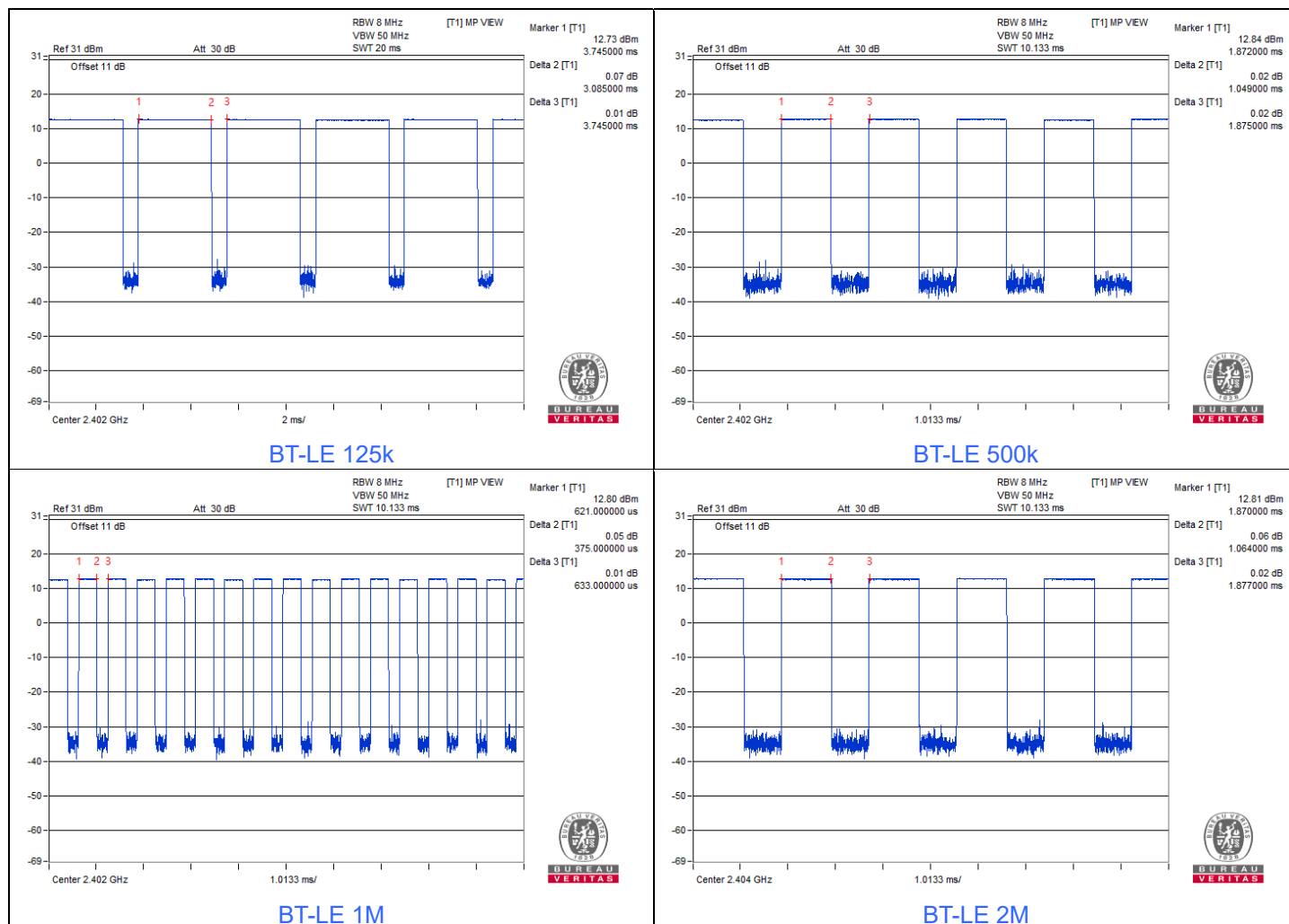
### 3.5 Duty Cycle of Test Signal

**BT-LE 125k:** Duty cycle = 3.085 ms / 3.745 ms x 100% = 82.4%, duty factor =  $10 \cdot \log(1/\text{Duty cycle}) = 0.84$  dB

**BT-LE 500k:** Duty cycle = 1.049 ms / 1.875 ms x 100% = 55.9%, duty factor =  $10 \cdot \log(1/\text{Duty cycle}) = 2.52$  dB

**BT-LE 1M:** Duty cycle = 0.375 ms / 0.633 ms x 100% = 59.2%, duty factor =  $10 \cdot \log(1/\text{Duty cycle}) = 2.27$  dB

**BT-LE 2M:** Duty cycle = 1.064 ms / 1.877 ms x 100% = 56.7%, duty factor =  $10 \cdot \log(1/\text{Duty cycle}) = 2.47$  dB

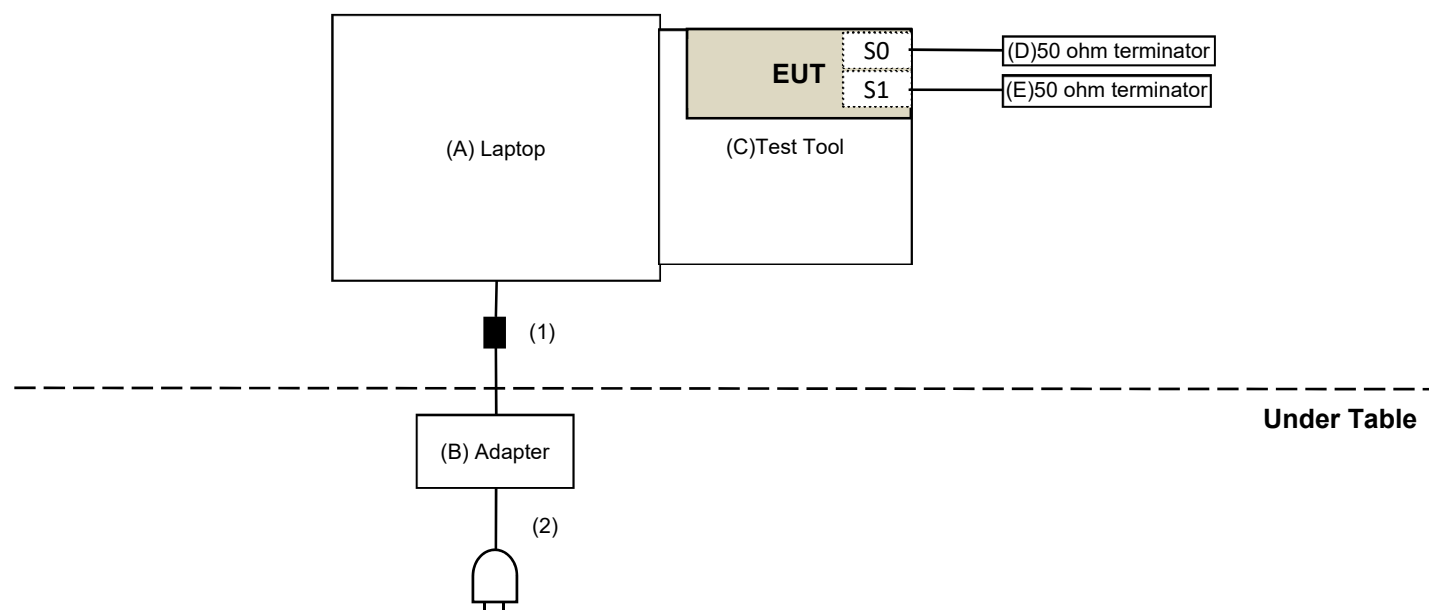


### 3.6 Test Program Used and Operation Descriptions

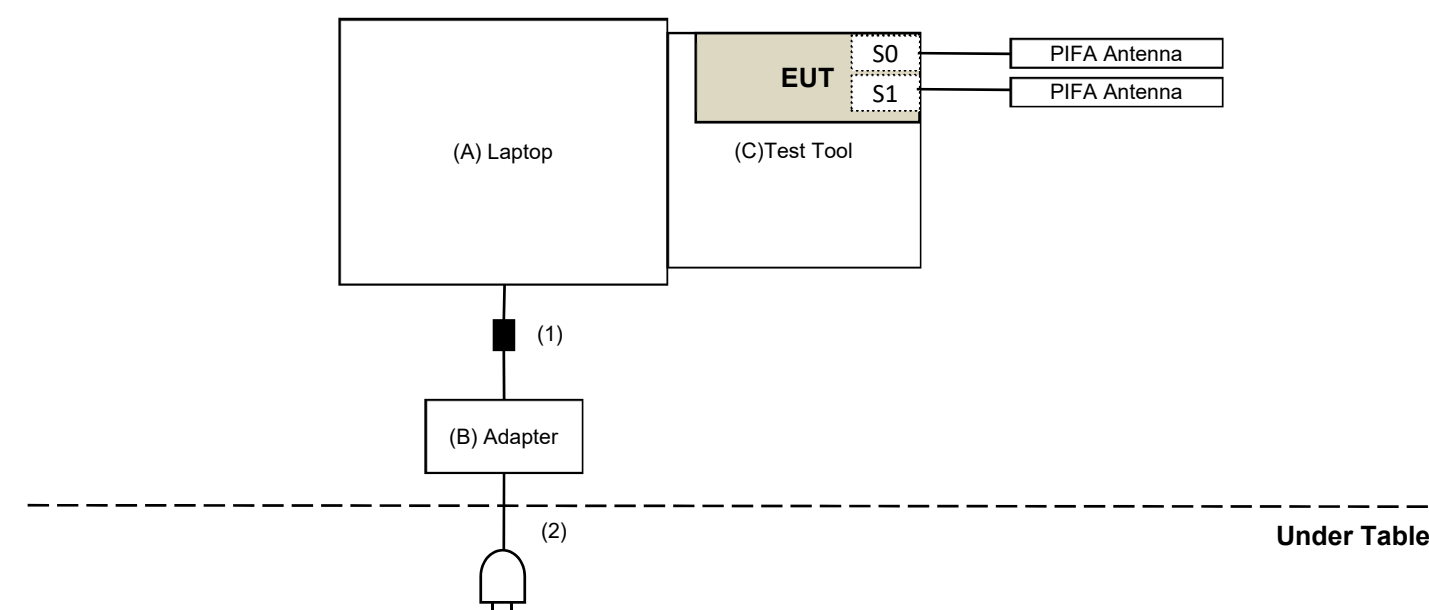
Controlling software (WCN\_Combo\_Tool) has been activated to set the EUT under transmission condition continuously at specific channel frequency.

### 3.7 Connection Diagram of EUT and Peripheral Devices

For Unwanted Emission test:



For AC Power Conducted Emission test:



### 3.8 Configuration of Peripheral Devices and Cable Connections

| ID | Product           | Brand    | Model No.   | Serial No. | FCC ID | Remarks               |
|----|-------------------|----------|-------------|------------|--------|-----------------------|
| A  | Laptop            | Lenovo   | L440        | R90FM90G   | N/A    | Provided by Lab       |
| B  | Adapter           | Lenovo   | ADLX45DLC3A | N/A        | N/A    | Provided by Lab       |
| C  | Test Tool         | Mediatek | MTK1849     | N/A        | N/A    | Supplied by applicant |
| D  | 50 Ohm terminator | WOKEN    | WTER-18S2   | N/A        | N/A    | Provided by Lab       |
| E  | 50 Ohm terminator | WOKEN    | WTER-18S2   | N/A        | N/A    | Provided by Lab       |

| ID | Cable Descriptions | Qty. | Length (m) | Shielding (Yes/No) | Cores (Qty.) | Remarks         |
|----|--------------------|------|------------|--------------------|--------------|-----------------|
| 1  | DC Cable           | 1    | 1.8        | No                 | 1            | Provided by Lab |
| 2  | AC Cable           | 1    | 1          | No                 | 0            | Provided by Lab |

## 4 Test Instruments

The calibration interval of the all test instruments are 12 months and the calibrations are traceable to NML/ROC and NIST/USA.

### 4.1 RF Output Power

| Description<br>Manufacturer   | Model No. | Serial No. | Calibrated<br>Date | Calibrated<br>Until |
|-------------------------------|-----------|------------|--------------------|---------------------|
| Pulse Power Sensor<br>Anritsu | MA2411B   | 1726434    | 2024/6/7           | 2025/6/6            |
| RF Power Meter<br>Anritsu     | ML2495A   | 1529002    | 2024/6/7           | 2025/6/6            |

Notes:

1. The test was performed in Oven room 2.
2. Tested Date: 2025/1/11

### 4.2 Power Spectral Density

| Description<br>Manufacturer     | Model No.                        | Serial No. | Calibrated<br>Date | Calibrated<br>Until |
|---------------------------------|----------------------------------|------------|--------------------|---------------------|
| PXA Signal Analyzer<br>Keysight | N9030A                           | MY55410176 | 2024/6/12          | 2025/6/11           |
| Software                        | ADT_RF Test Software<br>V7.6.5.4 | N/A        | N/A                | N/A                 |

Notes:

1. The test was performed in Oven room 2.
2. Tested Date: 2025/1/11

### 4.3 6 dB Bandwidth

Refer to section 4.2 to get the tested date and information of the instruments.

### 4.4 Conducted Out of Band Emissions

Refer to section 4.2 to get the tested date and information of the instruments.

### 4.5 AC Power Conducted Emissions

| Description<br>Manufacturer               | Model No.           | Serial No. | Calibrated<br>Date | Calibrated<br>Until |
|-------------------------------------------|---------------------|------------|--------------------|---------------------|
| 50 ohm terminal resistance<br>Telegartner | 50 ohm              | 3          | 2024/11/1          | 2025/10/31          |
| EMI Test Receiver<br>R&S                  | ESCS 30             | 100375     | 2024/5/20          | 2025/5/19           |
| Fixed Attenuator<br>STI                   | STI02-2200-10       | 005        | 2025/2/17          | 2026/2/16           |
| LISN<br>R&S                               | ESH3-Z5             | 835239/001 | 2024/4/3           | 2025/4/2            |
|                                           |                     | 848773/004 | 2024/10/7          | 2025/10/6           |
| RF Coaxial Cable<br>JYEBAO                | 5D-FB               | COCCAB-001 | 2025/2/17          | 2026/2/16           |
| Software<br>BVADT                         | BVADT_Cond_V7.3.7.4 | N/A        | N/A                | N/A                 |

Notes:

1. The test was performed in Conduction 1
2. Tested Date: 2025/3/25

#### 4.6 Unwanted Emissions below 1 GHz

##### Mode A

| Description<br>Manufacturer     | Model No.                        | Serial No. | Calibrated<br>Date | Calibrated<br>Until |
|---------------------------------|----------------------------------|------------|--------------------|---------------------|
| PXA Signal Analyzer<br>Keysight | N9030A                           | MY55410176 | 2024/6/12          | 2025/6/11           |
| Software                        | ADT_RF Test Software<br>V7.6.5.4 | N/A        | N/A                | N/A                 |

##### Notes:

1. The test was performed in Oven room 2.
2. Tested Date: 2025/3/19

##### Mode B

| Description<br>Manufacturer                         | Model No.            | Serial No.  | Calibrated<br>Date | Calibrated<br>Until |
|-----------------------------------------------------|----------------------|-------------|--------------------|---------------------|
| Bi_Log Antenna<br>Schwarzbeck                       | VULB 9168            | 9168-406    | 2024/10/8          | 2025/10/7           |
| Boresight Antenna Tower & Turn<br>Table<br>Max-Full | MF-7802BS            | MF780208530 | N/A                | N/A                 |
| Fixed Attenuator<br>Mini-Circuits                   | UNAT-5+              | PAD-ATT5-03 | 2024/2/17          | 2025/2/16           |
| Loop Antenna<br>TESEQ                               | HLA 6121             | 63620       | 2024/10/17         | 2025/10/16          |
| MXE EMI Receiver<br>Agilent                         | N9038A               | MY51210202  | 2024/7/29          | 2025/7/28           |
| Preamplifier<br>EMCI                                | EMC330N              | 980701      | 2024/2/17          | 2025/2/16           |
|                                                     | EMC001340            | 980142      | 2024/2/19          | 2025/2/18           |
| RF Coaxial Cable<br>mTJ                             | 100100-CFD400LW-200  | CFD400-200  | 2024/2/17          | 2025/2/16           |
|                                                     | 100100-CFD400LW-400  | CFD400-400  | 2024/2/17          | 2025/2/16           |
|                                                     | 100100-CFD400LW-800  | CFD400-800  | 2024/2/17          | 2025/2/16           |
| Software                                            | ADT_Radiated_V8.7.08 | N/A         | N/A                | N/A                 |

##### Notes:

1. The test was performed in 966 Chamber No. 4.
2. Tested Date: 2024/12/19

#### 4.7 Unwanted Emissions above 1 GHz

##### Mode A

| Description<br>Manufacturer     | Model No.                        | Serial No. | Calibrated<br>Date | Calibrated<br>Until |
|---------------------------------|----------------------------------|------------|--------------------|---------------------|
| PXA Signal Analyzer<br>Keysight | N9030A                           | MY55410176 | 2024/6/12          | 2025/6/11           |
| Software                        | ADT_RF Test Software<br>V7.6.5.4 | N/A        | N/A                | N/A                 |

##### Notes:

1. The test was performed in Oven room 2.
2. Tested Date: 2025/1/17 ~ 2025/1/20

##### Mode B

| Description<br>Manufacturer                | Model No.            | Serial No.  | Calibrated<br>Date | Calibrated<br>Until |
|--------------------------------------------|----------------------|-------------|--------------------|---------------------|
| Antenna Tower & Turn Table<br>Max-Full     | MF-7802              | MF780208406 | N/A                | N/A                 |
| Fix tool for Boresight antenna tower<br>BV | FBA-01               | FBA_SIP01   | N/A                | N/A                 |
| Horn Antenna<br>Schwarzbeck                | BBHA 9120D           | 9120D-406   | 2024/11/10         | 2025/11/9           |
|                                            | BBHA 9170            | 9170-739    | 2024/11/10         | 2025/11/9           |
| MXE EMI Receiver<br>Agilent                | N9038A               | MY50010156  | 2024/6/5           | 2025/6/4            |
| Preamplifier<br>EMCI                       | EMC12630SE           | 980384      | 2025/1/14          | 2026/1/13           |
|                                            | EMC184045SE          | 980387      | 2024/8/8           | 2025/8/7            |
| PXA Signal Analyzer<br>Keysight            | N9030B               | MY57141948  | 2024/5/20          | 2025/5/19           |
| RF Coaxial Cable<br>EMCI                   | EMC102-KM-KM-1200    | 160924      | 2025/1/24          | 2026/1/23           |
|                                            | EMC102-KM-KM-4000    | 200214      | 2025/1/24          | 2026/1/23           |
|                                            | EMC104-SM-SM-1500    | 180504      | 2025/1/18          | 2026/1/17           |
|                                            | EMC104-SM-SM-2000    | 180601      | 2025/1/18          | 2026/1/17           |
|                                            | EMC104-SM-SM-6000    | 210201      | 2025/1/18          | 2026/1/17           |
| Software                                   | ADT_Radiated_V8.7.08 | N/A         | N/A                | N/A                 |

##### Notes:

1. The test was performed in 966 Chamber No. 3.
2. Tested Date: 2025/3/21

## 5 Limits of Test Items

### 5.1 RF Output Power

For systems using digital modulation in the 2400–2483.5 MHz bands: 1 Watt (30 dBm)

### 5.2 Power Spectral Density

The Maximum of Power Spectral Density Measurement is 8 dBm in any 3 kHz.

### 5.3 6 dB Bandwidth

The minimum of 6 dB Bandwidth Measurement is 0.5 MHz.

### 5.4 Conducted Out of Band Emissions

Below 20 dB of the highest emission level of operating band (in 100 kHz Resolution Bandwidth).

### 5.5 AC Power Conducted Emissions

| Frequency (MHz) | Conducted Limit (dBuV) |         |
|-----------------|------------------------|---------|
|                 | Quasi-peak             | Average |
| 0.15 - 0.5      | 66 - 56                | 56 - 46 |
| 0.50 - 5.0      | 56                     | 46      |
| 5.0 - 30.0      | 60                     | 50      |

Notes:

1. The lower limit shall apply at the transition frequencies.
2. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50 MHz.

### 5.6 Unwanted Emissions below 1 GHz

Radiated emissions up to 1 GHz which fall in the restricted bands must comply with the radiated emission limits specified as below table. Other emissions shall be at least 20 dB below the highest level of the desired power:

| Frequencies (MHz) | Field Strength (microvolts/meter) | Measurement Distance (meters) |
|-------------------|-----------------------------------|-------------------------------|
| 0.009 ~ 0.490     | 2400/F(kHz)                       | 300                           |
| 0.490 ~ 1.705     | 24000/F(kHz)                      | 30                            |
| 1.705 ~ 30.0      | 30                                | 30                            |
| 30 ~ 88           | 100                               | 3                             |
| 88 ~ 216          | 150                               | 3                             |
| 216 ~ 960         | 200                               | 3                             |
| Above 960         | 500                               | 3                             |

Notes:

1. The lower limit shall apply at the transition frequencies.
2. Emission level (dBuV/m) = 20 log Emission level (uV/m).

## 5.7 Unwanted Emissions above 1 GHz

Radiated emissions above 1 GHz which fall in the restricted bands must comply with the radiated emission limits specified as below table. Other emissions shall be at least 20 dB below the highest level of the desired power:

| Frequencies<br>(MHz) | Field Strength<br>(microvolts/meter) | Measurement Distance<br>(meters) |
|----------------------|--------------------------------------|----------------------------------|
| Above 960            | 500                                  | 3                                |

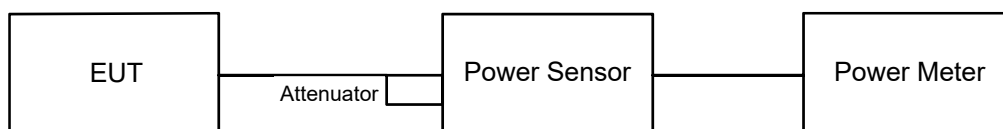
### Notes:

1. The lower limit shall apply at the transition frequencies.
2. Emission level (dBuV/m) = 20 log Emission level (uV/m).
3. For frequencies above 1000 MHz, the field strength limits are based on average detector, however, the peak field strength of any emission shall not exceed the maximum permitted average limits, specified above by more than 20 dB under any condition of modulation.

## 6 Test Arrangements

### 6.1 RF Output Power

#### 6.1.1 Test Setup



#### 6.1.2 Test Procedure

##### Peak Power:

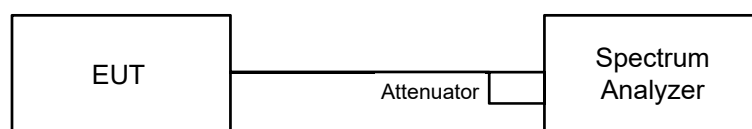
A peak power sensor was used on the output port of the EUT. A power meter was used to read the response of the peak power sensor. Record the power level.

##### Average Power:

Average power sensor was used to perform output power measurement, trigger and gating function of wide band power meter is enabled to measure max output power of TX on burst. Duty factor is not added to measured value.

### 6.2 Power Spectral Density

#### 6.2.1 Test Setup

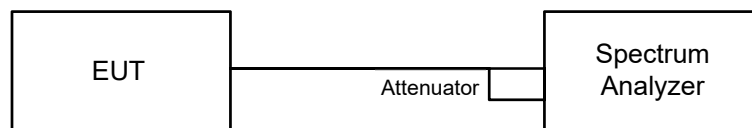


#### 6.2.2 Test Procedure

- Set analyzer center frequency to DTS channel center frequency.
- Set the span to 1.5 times the DTS bandwidth.
- Set the RBW to: 3 kHz.
- Set the VBW  $\geq 3 \times$  RBW.
- Detector = peak.
- Sweep time = auto couple.
- Trace mode = max hold.
- Allow trace to fully stabilize.
- Use the peak marker function to determine the maximum amplitude level within the RBW.

### 6.3 6 dB Bandwidth

#### 6.3.1 Test Setup

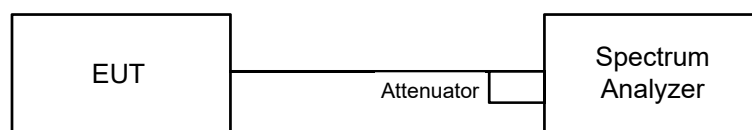


#### 6.3.2 Test Procedure

- Set resolution bandwidth (RBW) = 100 kHz.
- Set the video bandwidth (VBW)  $\geq 3 \times$  RBW, Detector = Peak.
- Trace mode = max hold.
- Sweep = auto couple.
- Measure the maximum width of the emission that is constrained by the frequencies associated with the two amplitude points (upper and lower) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

### 6.4 Conducted Out of Band Emissions

#### 6.4.1 Test Setup



#### 6.4.2 Test Procedure

##### MEASUREMENT PROCEDURE REF

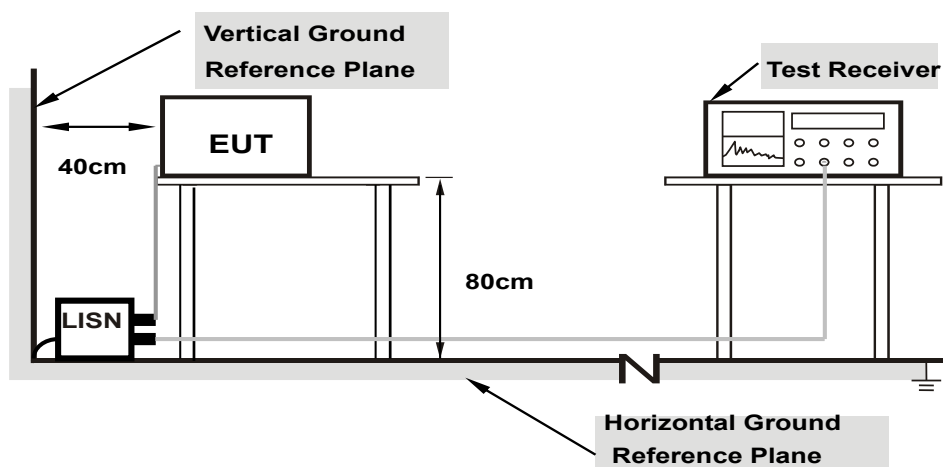
- Set the RBW = 100 kHz.
- Set the VBW  $\geq 300$  kHz.
- Detector = peak.
- Sweep time = auto couple.
- Trace mode = max hold.
- Allow trace to fully stabilize.
- Use the peak marker function to determine the maximum power level in any 100 kHz band segment within the fundamental EBW.

##### MEASUREMENT PROCEDURE OOB

- Set RBW = 100 kHz.
- Set VBW  $\geq 300$  kHz.
- Detector = peak.
- Sweep = auto couple.
- Trace Mode = max hold.
- Allow trace to fully stabilize.
- Use the peak marker function to determine the maximum amplitude level.

## 6.5 AC Power Conducted Emissions

### 6.5.1 Test Setup



**Note: 1.Support units were connected to second LISN.**

For the actual test configuration, please refer to the attached file (Test Setup Photo).

### 6.5.2 Test Procedure

- The EUT was placed on a 0.8 meter to the top of table and placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/ 50 uH of coupling impedance for the measuring instrument.
- Both lines of the power mains connected to the EUT were checked for maximum conducted interference.
- The frequency range from 150 kHz to 30 MHz was searched. Emission levels under (Limit – 20 dB) was not recorded.

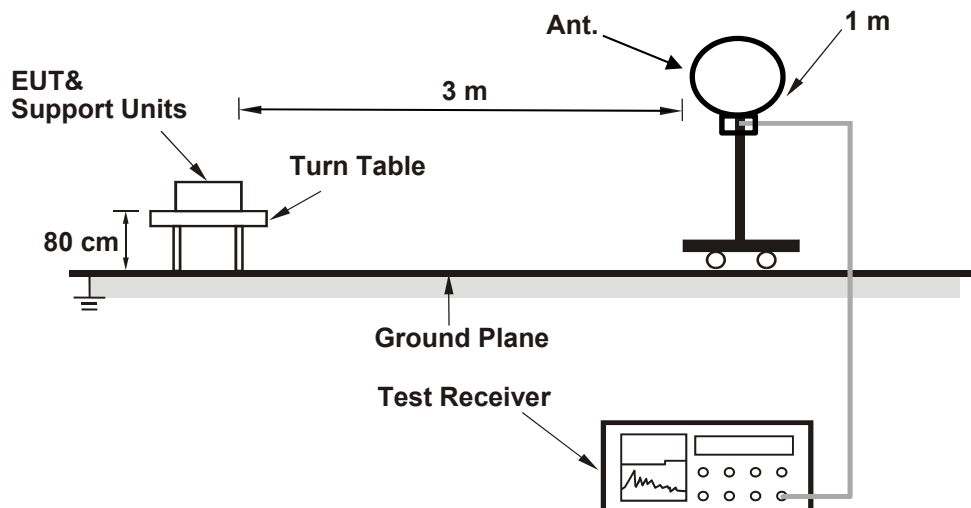
Note: The resolution bandwidth and video bandwidth of test receiver is 9 kHz for quasi-peak detection (QP) and average detection (AV) at frequency 0.15 MHz-30 MHz.

## 6.6 Unwanted Emissions below 1 GHz

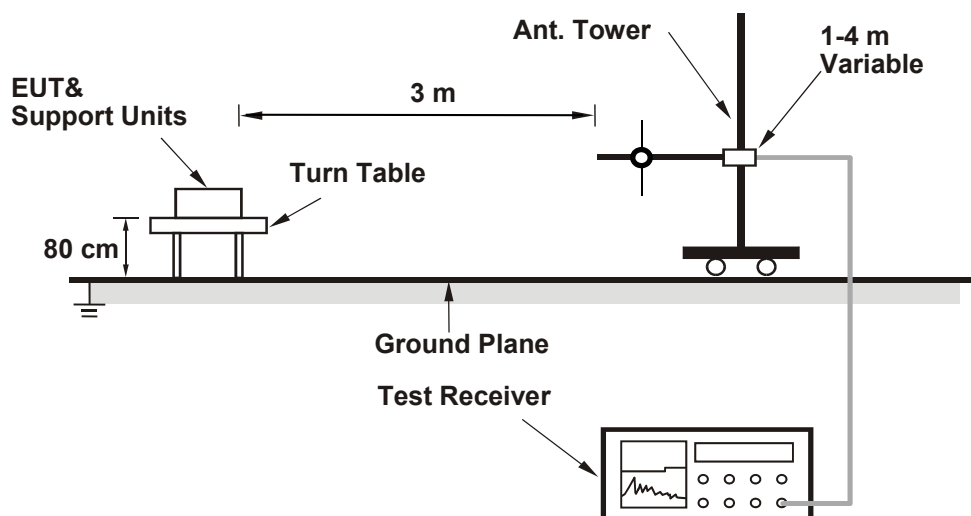
### 6.6.1 Test Setup

**For Radiated Configuration:**

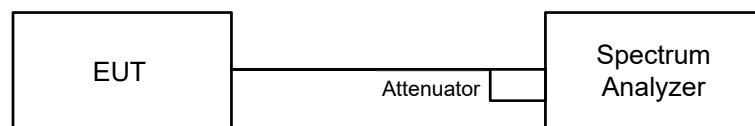
**For Radiated emission below 30 MHz**



**For Radiated emission above 30 MHz**



**For Conducted Configuration:**



For the actual test configuration, please refer to the attached file (Test Setup Photo).

## 6.6.2 Test Procedure

### Radiated versus Conducted Measurement.

The unwanted emission limits in both the restricted and non-restricted bands are based on antenna-port conducted measurements in conjunction with cabinet emissions tests are permitted to demonstrate compliance.

The following steps was performed:

- a. Cabinet emissions measurements. Radiated measurement was performed to ensure that cabinet emissions are below the emission limits. For the cabinet-emission measurements the antenna was replaced by a termination matching the nominal impedance of the antenna.
- b. Conducted tests was performed using equipment that matches the nominal impedance of the antenna assembly used with the EUT.
- c. EIRP calculation. A value representative of an upper bound on out-of-band antenna gain (in dBi) shall be added to the measured antenna-port conducted emission power to compute EIRP within the specified measurement bandwidth. (For emissions in the restricted bands, additional calculations are required to convert EIRP to field strength at the specified distance.) The upper bound on antenna gain for a device with a single RF output shall be selected as the maximum in-band gain of the antenna across all operating bands or 2 dBi, whichever is greater.
- d. EIRP adjustments for multiple outputs. (Follow the procedures specified in FCC KDB Publication 662911)
- e. For all of Radiation emission test

#### **For Radiated emission below 30 MHz**

- e-1.1. The EUT was placed on the top of a rotating table 0.8 meters above the ground at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
- e-1.2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- e-1.3. Parallel, perpendicular, and ground-parallel orientations of the antenna are set to make the measurement.
- e-1.4. For each suspected emission, the EUT was arranged to its worst case and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e-1.5. The test-receiver system was set to Quasi-Peak Detect Function and Specified Bandwidth with Maximum Hold Mode, except for the frequency band (9 kHz to 90 kHz and 110 kHz to 490 kHz) set to average detect function and peak detect function.

#### Notes:

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 200 Hz at frequency below 150 kHz.
2. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 9 kHz or 10 kHz at frequency (150 kHz to 30 MHz).
3. All modes of operation were investigated and the worst-case emissions are reported.

#### **For Radiated emission above 30 MHz**

- e-2.1. The EUT was placed on the top of a rotating table 0.8 meters above the ground at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
- e-2.2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- e-2.3. The height of antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- e-2.4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e-2.5. The test-receiver system was set to quasi-peak detect function and specified bandwidth with maximum hold mode when the test frequency is below 1 GHz.

#### Notes:

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120 kHz for Quasi-peak detection (QP) at frequency below 1 GHz.
2. All modes of operation were investigated and the worst-case emissions are reported.

### Radiated versus Conducted Measurement

For Radiated measurement:

The level of unwanted emissions was measured when radiated by the cabinet or structure of the equipment with the antenna connector(s) terminated by a specified load (cabinet radiation).

For Conducted measurement:

The level of unwanted emissions was measured as their power in a specified load (conducted spurious emissions).

### Conducted Unwanted Emission Convert Formula

- a.  $\text{Emission Level (dBuV/m)} = \text{EIRP Level (dBm)} - 20\log(d) + 104.8$   
 $d = \text{measurement distance in 3 meters.}$
- b.  $\text{EIRP Level (dBm)} = \text{Raw Value(dBm)} + \text{Correction Factor(dB)}$
- c. Correction Factor is directional gain, and the composite gain will be used when signal support the correlated signal.  
 For the out of band spurious the gain for the specific band may have been used rather than the highest gain across all bands.  
 For the band edge the gain for the specific band may have been used.

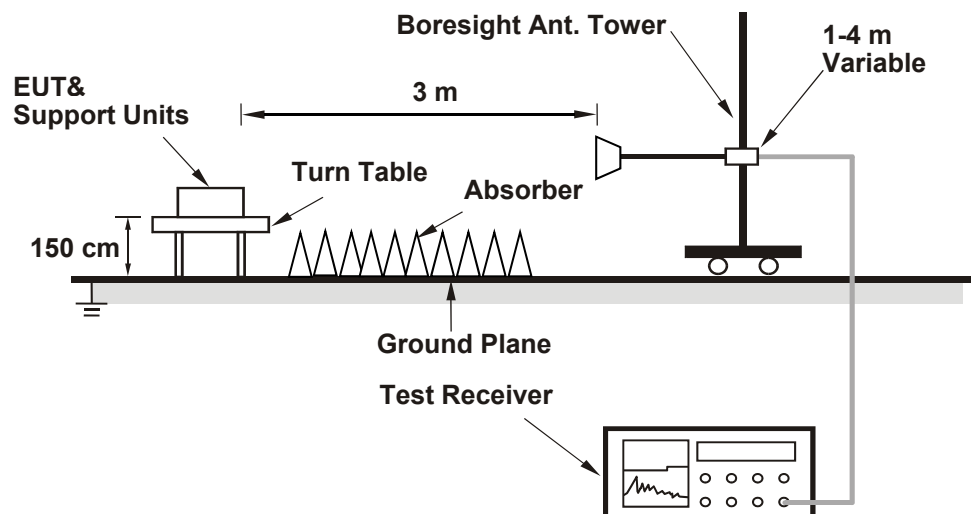
Notes:

1. In restricted bands below 1000 MHz, add upper bound on ground plane reflection:  
 For frequencies between 30 MHz and 1000 MHz, add 4.7 dB.
2. The conducted emission test was considered some factor to compute test result.

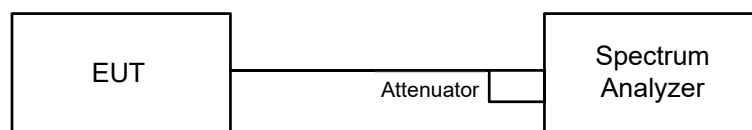
## 6.7 Unwanted Emissions above 1 GHz

### 6.7.1 Test Setup

**For Radiated Configuration:**



**For Conducted Configuration:**



For the actual test configuration, please refer to the attached file (Test Setup Photo).

## 6.7.2 Test Procedure

### Radiated versus Conducted Measurement.

The unwanted emission limits in both the restricted and non-restricted bands are based on antenna-port conducted measurements in conjunction with cabinet emissions tests are permitted to demonstrate compliance.

The following steps was performed:

- a. Cabinet emissions measurements. Radiated measurement was performed to ensure that cabinet emissions are below the emission limits. For the cabinet-emission measurements the antenna was replaced by a termination matching the nominal impedance of the antenna.
- b. Conducted tests was performed using equipment that matches the nominal impedance of the antenna assembly used with the EUT.
- c. EIRP calculation. A value representative of an upper bound on out-of-band antenna gain (in dBi) shall be added to the measured antenna-port conducted emission power to compute EIRP within the specified measurement bandwidth. (For emissions in the restricted bands, additional calculations are required to convert EIRP to field strength at the specified distance.) The upper bound on antenna gain for a device with a single RF output shall be selected as the maximum in-band gain of the antenna across all operating bands or 2 dBi, whichever is greater.
- d. EIRP adjustments for multiple outputs. (Follow the procedures specified in FCC KDB Publication 662911)
- e. For all of Radiation emission test
  - e-1. The EUT was placed on the top of a rotating table 1.5 meters above the ground at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
  - e-2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
  - e-3. The height of antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
  - e-4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
  - e-5. The test-receiver system was set to peak and average detects function and specified bandwidth with maximum hold mode when the test frequency is above 1 GHz. If the peak reading value also meets average limit, measurement with the average detector is unnecessary.

#### Notes:

1. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz for Peak detection (PK) and Average detection (AV) at frequency above 1 GHz.
2. For fundamental and harmonic signal measurement, the resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is  $\geq 1/T$  (Duty cycle  $< 98\%$ ) or 10 Hz (Duty cycle  $\geq 98\%$ ) for Average detection (AV) at frequency above 1 GHz.
3. All modes of operation were investigated and the worst-case emissions are reported.

### Radiated versus Conducted Measurement

For Radiated measurement:

The level of unwanted emissions was measured when radiated by the cabinet or structure of the equipment with the antenna connector(s) terminated by a specified load (cabinet radiation).

For Conducted measurement:

The level of unwanted emissions was measured as their power in a specified load (conducted spurious emissions).

For Verified radiated measurement:

The level of unwanted emissions was measured when radiated by the cabinet or structure of the equipment with the antenna connector(s) terminated by a specified load (cabinet radiation).

### Conducted Unwanted Emission Convert Formula

a. Emission Level (dBuV/m) = EIRP Level (dBm) – 20log(d) + 104.8

d = measurement distance in 3 meters.

b. EIRP Level (dBm) = Raw Value(dBm) + Correction Factor(dB).

c. Correction Factor is directional gain, and the composite gain will be used when signal support the correlated signal.

For the out of band spurious the gain for the specific band may have been used rather than the highest gain across all bands.

For the band edge the gain for the specific band may have been used.

Note: The conducted emission test was considered some factor to compute test result.

## 7 Test Results of Test Item

### 7.1 RF Output Power

|              |         |                           |              |            |           |
|--------------|---------|---------------------------|--------------|------------|-----------|
| Input Power: | 3.3 Vdc | Environmental Conditions: | 20°C, 60% RH | Tested By: | Henry HSU |
|--------------|---------|---------------------------|--------------|------------|-----------|

#### For Peak Power

##### BT-LE 125k

| Chan. | Chan. Freq. (MHz) | Peak Power (mW) | Peak Power (dBm) | Power Limit (dBm) | Test Result |
|-------|-------------------|-----------------|------------------|-------------------|-------------|
| 0     | 2402              | 17.179          | 12.35            | 29.81             | Pass        |
| 19    | 2440              | 16.749          | 12.24            | 29.81             | Pass        |
| 39    | 2480              | 16.293          | 12.12            | 29.81             | Pass        |

Note: The antenna gain is 6.19 dBi > 6 dBi, so the output power limit shall be reduced to  $30-(6.19-6) = 29.81$  dBm.

##### BT-LE 500k

| Chan. | Chan. Freq. (MHz) | Peak Power (mW) | Peak Power (dBm) | Power Limit (dBm) | Test Result |
|-------|-------------------|-----------------|------------------|-------------------|-------------|
| 0     | 2402              | 17.022          | 12.31            | 29.81             | Pass        |
| 19    | 2440              | 16.749          | 12.24            | 29.81             | Pass        |
| 39    | 2480              | 16.331          | 12.13            | 29.81             | Pass        |

Note: The antenna gain is 6.19 dBi > 6 dBi, so the output power limit shall be reduced to  $30-(6.19-6) = 29.81$  dBm.

##### BT-LE 1M

| Chan. | Chan. Freq. (MHz) | Peak Power (mW) | Peak Power (dBm) | Power Limit (dBm) | Test Result |
|-------|-------------------|-----------------|------------------|-------------------|-------------|
| 0     | 2402              | 16.788          | 12.25            | 29.81             | Pass        |
| 19    | 2440              | 15.668          | 11.95            | 29.81             | Pass        |
| 39    | 2480              | 15.382          | 11.87            | 29.81             | Pass        |

Note: The antenna gain is 6.19 dBi > 6 dBi, so the output power limit shall be reduced to  $30-(6.19-6) = 29.81$  dBm.

##### BT-LE 2M

| Chan. | Chan. Freq. (MHz) | Peak Power (mW) | Peak Power (dBm) | Power Limit (dBm) | Test Result |
|-------|-------------------|-----------------|------------------|-------------------|-------------|
| 1     | 2404              | 17.378          | 12.40            | 29.81             | Pass        |
| 19    | 2440              | 16.181          | 12.09            | 29.81             | Pass        |
| 38    | 2478              | 15.596          | 11.93            | 29.81             | Pass        |

Note: The antenna gain is 6.19 dBi > 6 dBi, so the output power limit shall be reduced to  $30-(6.19-6) = 29.81$  dBm.

## For Average Power

### BT-LE 125k

| Chan. | Chan. Freq.<br>(MHz) | Average Power (mW) | Average Power (dBm) |
|-------|----------------------|--------------------|---------------------|
| 0     | 2402                 | 16.444             | 12.16               |
| 19    | 2440                 | 16.144             | 12.08               |
| 39    | 2480                 | 15.704             | 11.96               |

### BT-LE 500k

| Chan. | Chan. Freq.<br>(MHz) | Average Power (mW) | Average Power (dBm) |
|-------|----------------------|--------------------|---------------------|
| 0     | 2402                 | 16.788             | 12.25               |
| 19    | 2440                 | 16.218             | 12.10               |
| 39    | 2480                 | 15.885             | 12.01               |

### BT-LE 1M

| Chan. | Chan. Freq.<br>(MHz) | Average Power (mW) | Average Power (dBm) |
|-------|----------------------|--------------------|---------------------|
| 0     | 2402                 | 16.181             | 12.09               |
| 19    | 2440                 | 15.101             | 11.79               |
| 39    | 2480                 | 14.859             | 11.72               |

### BT-LE 2M

| Chan. | Chan. Freq.<br>(MHz) | Average Power (mW) | Average Power (dBm) |
|-------|----------------------|--------------------|---------------------|
| 1     | 2404                 | 16.943             | 12.29               |
| 19    | 2440                 | 15.171             | 11.81               |
| 38    | 2478                 | 14.962             | 11.75               |

## 7.2 Power Spectral Density

|              |         |                           |              |            |           |
|--------------|---------|---------------------------|--------------|------------|-----------|
| Input Power: | 3.3 Vdc | Environmental Conditions: | 20°C, 60% RH | Tested By: | Henry HSU |
|--------------|---------|---------------------------|--------------|------------|-----------|

### BT-LE 125k

| Chan. | Chan. Freq. (MHz) | PSD (dBm/3kHz) | PSD Limit (dBm/3kHz) | Test Result |
|-------|-------------------|----------------|----------------------|-------------|
| 0     | 2402              | 6.36           | 7.81                 | Pass        |
| 19    | 2440              | 6.07           | 7.81                 | Pass        |
| 39    | 2480              | 5.96           | 7.81                 | Pass        |

Note: The antenna gain is 6.19 dBi > 6 dBi, so the power density limit shall be reduced to  $8-(6.19-6) = 7.81$  dBm/3kHz.

### BT-LE 500k

| Chan. | Chan. Freq. (MHz) | PSD (dBm/3kHz) | PSD Limit (dBm/3kHz) | Test Result |
|-------|-------------------|----------------|----------------------|-------------|
| 0     | 2402              | 6.52           | 7.81                 | Pass        |
| 19    | 2440              | 6.38           | 7.81                 | Pass        |
| 39    | 2480              | 6.13           | 7.81                 | Pass        |

Note: The antenna gain is 6.19 dBi > 6 dBi, so the power density limit shall be reduced to  $8-(6.19-6) = 7.81$  dBm/3kHz.

### BT-LE 1M

| Chan. | Chan. Freq. (MHz) | PSD (dBm/3kHz) | PSD Limit (dBm/3kHz) | Test Result |
|-------|-------------------|----------------|----------------------|-------------|
| 0     | 2402              | -1.25          | 7.81                 | Pass        |
| 19    | 2440              | -1.43          | 7.81                 | Pass        |
| 39    | 2480              | -1.68          | 7.81                 | Pass        |

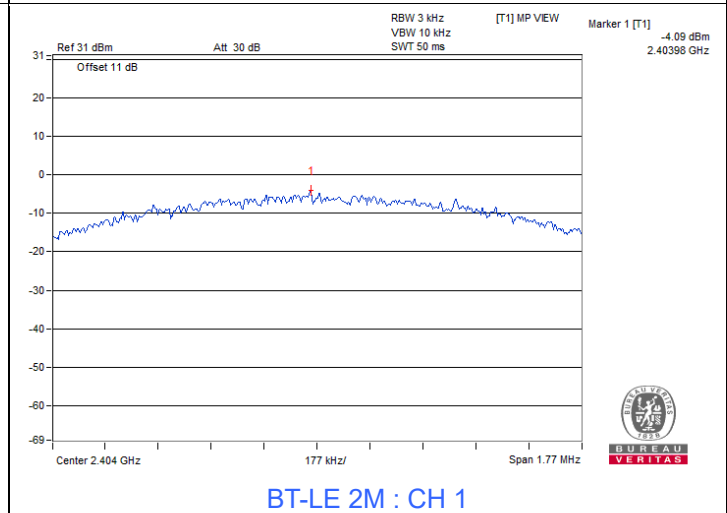
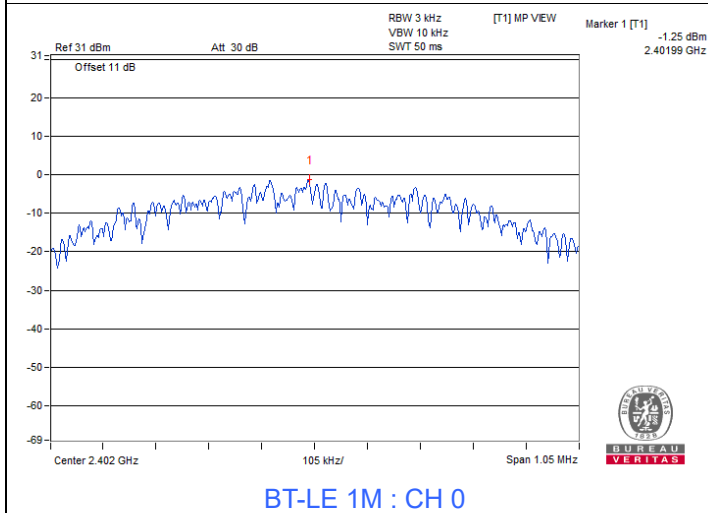
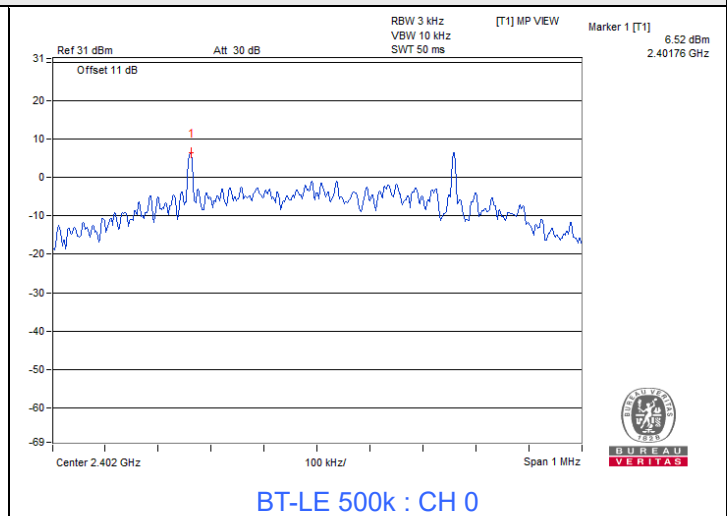
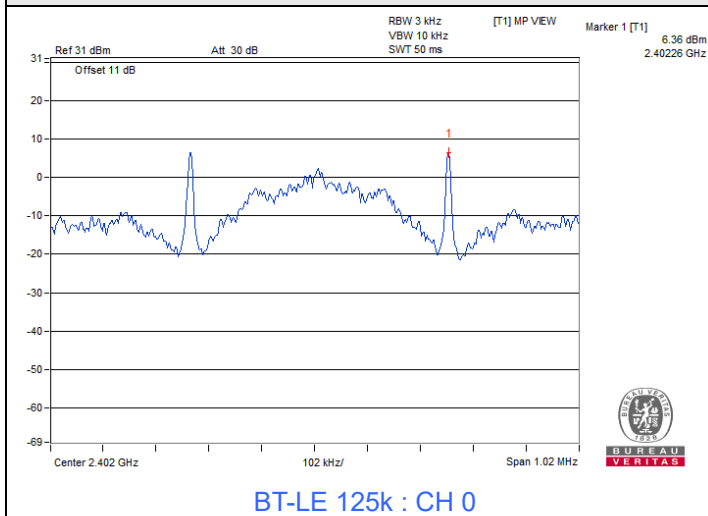
Note: The antenna gain is 6.19 dBi > 6 dBi, so the power density limit shall be reduced to  $8-(6.19-6) = 7.81$  dBm/3kHz.

### BT-LE 2M

| Chan. | Chan. Freq. (MHz) | PSD (dBm/3kHz) | PSD Limit (dBm/3kHz) | Test Result |
|-------|-------------------|----------------|----------------------|-------------|
| 1     | 2404              | -4.09          | 7.81                 | Pass        |
| 19    | 2440              | -4.29          | 7.81                 | Pass        |
| 38    | 2478              | -4.42          | 7.81                 | Pass        |

Note: The antenna gain is 6.19 dBi > 6 dBi, so the power density limit shall be reduced to  $8-(6.19-6) = 7.81$  dBm/3kHz.

## Spectrum Plot of Maximum Value



### 7.3 6 dB Bandwidth

|              |         |                           |              |            |           |
|--------------|---------|---------------------------|--------------|------------|-----------|
| Input Power: | 3.3 Vdc | Environmental Conditions: | 20°C, 60% RH | Tested By: | Henry HSU |
|--------------|---------|---------------------------|--------------|------------|-----------|

#### BT-LE 125k

| Channel | Frequency (MHz) | 6 dB Bandwidth (MHz) | Minimum Limit (MHz) | Test Result |
|---------|-----------------|----------------------|---------------------|-------------|
| 0       | 2402            | 0.68                 | 0.5                 | Pass        |
| 19      | 2440            | 0.68                 | 0.5                 | Pass        |
| 39      | 2480            | 0.68                 | 0.5                 | Pass        |

#### BT-LE 500k

| Channel | Frequency (MHz) | 6 dB Bandwidth (MHz) | Minimum Limit (MHz) | Test Result |
|---------|-----------------|----------------------|---------------------|-------------|
| 0       | 2402            | 0.67                 | 0.5                 | Pass        |
| 19      | 2440            | 0.67                 | 0.5                 | Pass        |
| 39      | 2480            | 0.67                 | 0.5                 | Pass        |

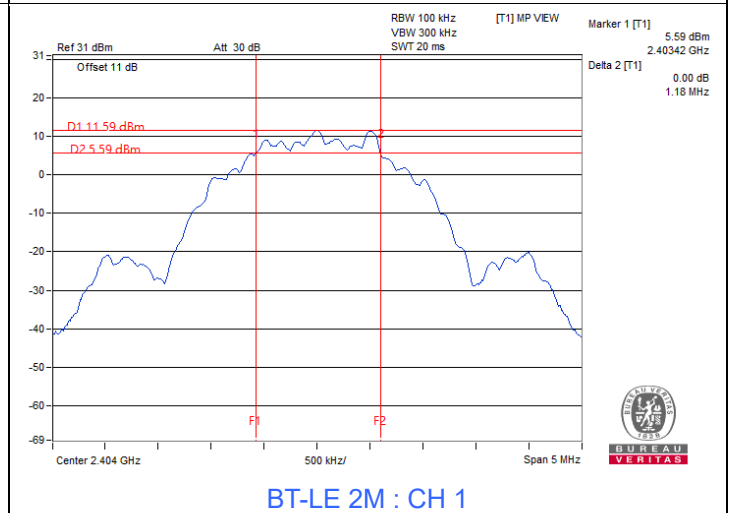
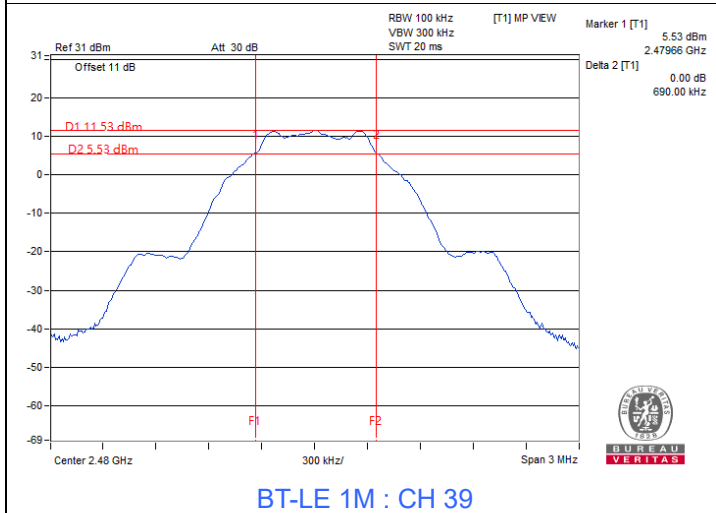
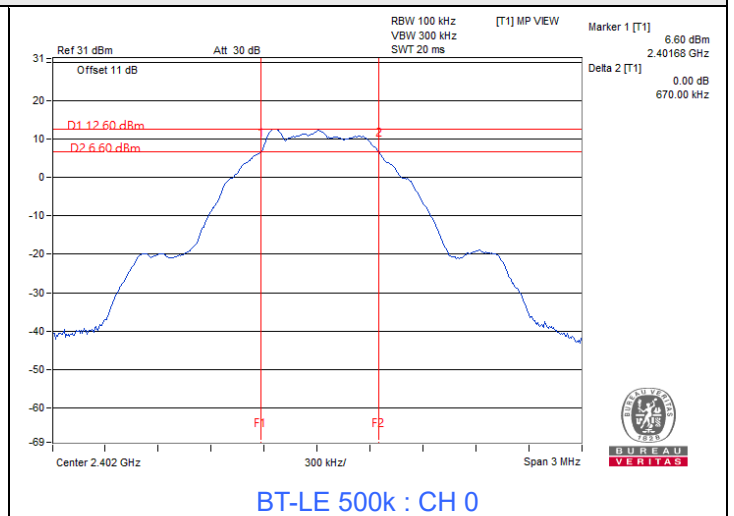
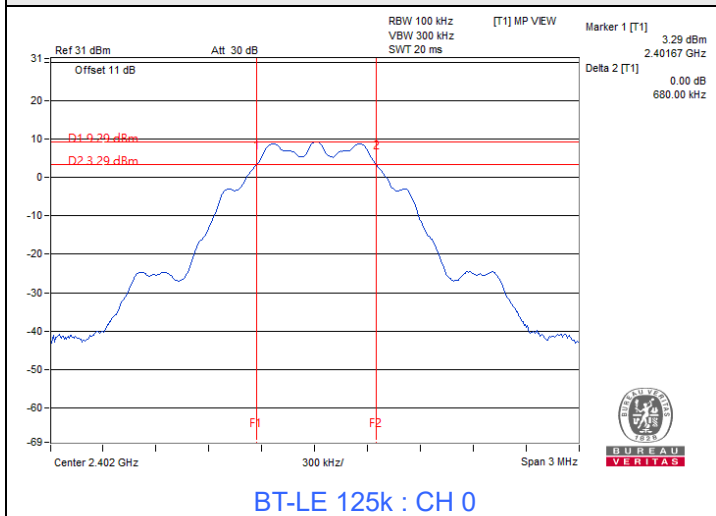
#### BT-LE 1M

| Channel | Frequency (MHz) | 6 dB Bandwidth (MHz) | Minimum Limit (MHz) | Test Result |
|---------|-----------------|----------------------|---------------------|-------------|
| 0       | 2402            | 0.7                  | 0.5                 | Pass        |
| 19      | 2440            | 0.7                  | 0.5                 | Pass        |
| 39      | 2480            | 0.69                 | 0.5                 | Pass        |

#### BT-LE 2M

| Channel | Frequency (MHz) | 6 dB Bandwidth (MHz) | Minimum Limit (MHz) | Test Result |
|---------|-----------------|----------------------|---------------------|-------------|
| 1       | 2404            | 1.18                 | 0.5                 | Pass        |
| 19      | 2440            | 1.18                 | 0.5                 | Pass        |
| 38      | 2478            | 1.18                 | 0.5                 | Pass        |

## Spectrum Plot of Minimum Value



## 7.4 Conducted Out of Band Emissions

|              |         |                           |              |            |           |
|--------------|---------|---------------------------|--------------|------------|-----------|
| Input Power: | 3.3 Vdc | Environmental Conditions: | 20°C, 60% RH | Tested By: | Henry HSU |
|--------------|---------|---------------------------|--------------|------------|-----------|

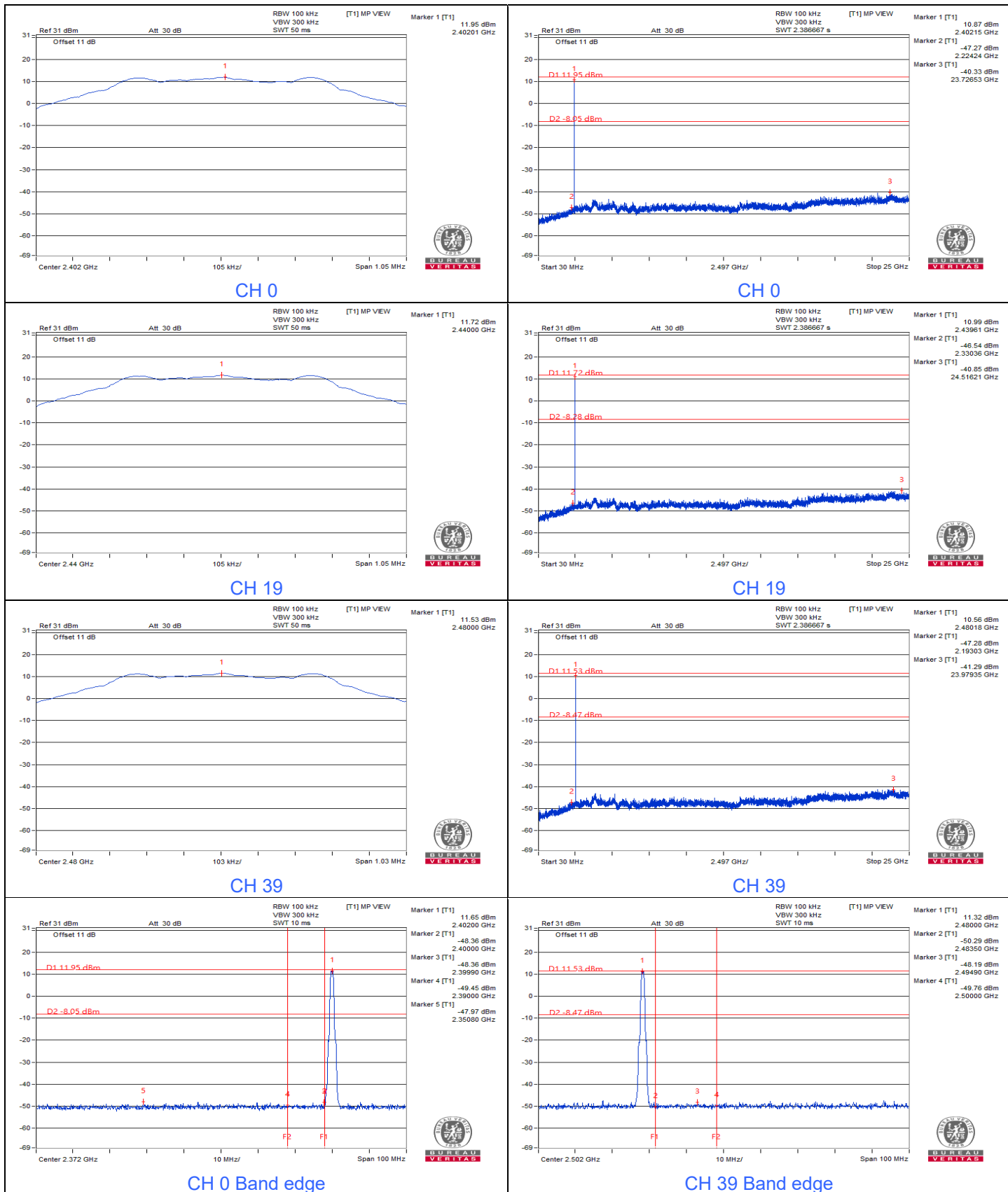
### BT-LE 125k



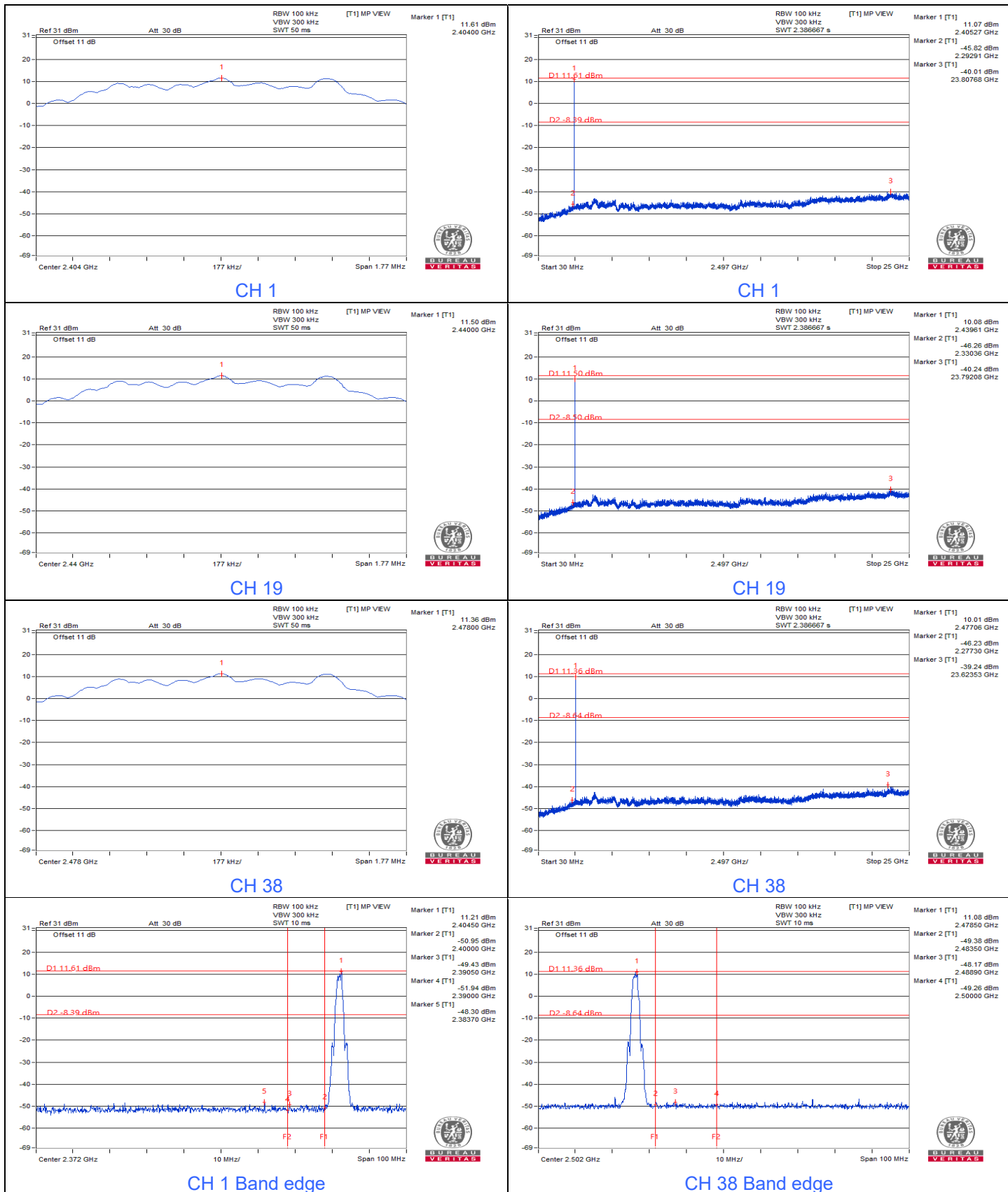
# BT-LE 500k



# BT-LE 1M



# BT-LE 2M



## 7.5 AC Power Conducted Emissions

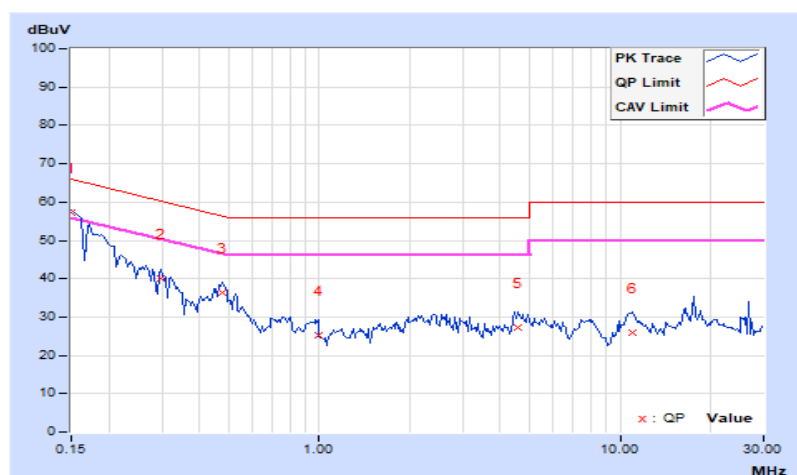
### Mode C

|                      |                  |                                          |                                       |
|----------------------|------------------|------------------------------------------|---------------------------------------|
| RF Mode              | BT-LE 2M         | Channel                                  | CH 1 : 2404 MHz                       |
| Frequency Range      | 150 kHz ~ 30 MHz | Detector Function & Resolution Bandwidth | Quasi-Peak (QP) / Average (AV), 9 kHz |
| Input Power (System) | 120 Vac, 60 Hz   | Environmental Conditions                 | 25 °C, 75 % RH                        |
| Tested By            | Willy Lin        |                                          |                                       |

| Phase Of Power : Line (L) |                 |                        |                      |       |                       |       |              |       |             |        |
|---------------------------|-----------------|------------------------|----------------------|-------|-----------------------|-------|--------------|-------|-------------|--------|
| No                        | Frequency (MHz) | Correction Factor (dB) | Reading Value (dBuV) |       | Emission Level (dBuV) |       | Limit (dBuV) |       | Margin (dB) |        |
|                           |                 |                        | Q.P.                 | AV.   | Q.P.                  | AV.   | Q.P.         | AV.   | Q.P.        | AV.    |
| 1                         | 0.15012         | 10.02                  | 47.17                | 32.53 | 57.19                 | 42.55 | 65.99        | 55.99 | -8.80       | -13.44 |
| 2                         | 0.29833         | 10.02                  | 30.04                | 17.36 | 40.06                 | 27.38 | 60.29        | 50.29 | -20.23      | -22.91 |
| 3                         | 0.47804         | 10.03                  | 26.41                | 17.07 | 36.44                 | 27.10 | 56.37        | 46.37 | -19.93      | -19.27 |
| 4                         | 0.99674         | 10.06                  | 15.04                | 7.16  | 25.10                 | 17.22 | 56.00        | 46.00 | -30.90      | -28.78 |
| 5                         | 4.59351         | 10.23                  | 17.08                | 9.23  | 27.31                 | 19.46 | 56.00        | 46.00 | -28.69      | -26.54 |
| 6                         | 11.00316        | 10.57                  | 15.31                | 9.22  | 25.88                 | 19.79 | 60.00        | 50.00 | -34.12      | -30.21 |

#### Remarks:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level – Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value

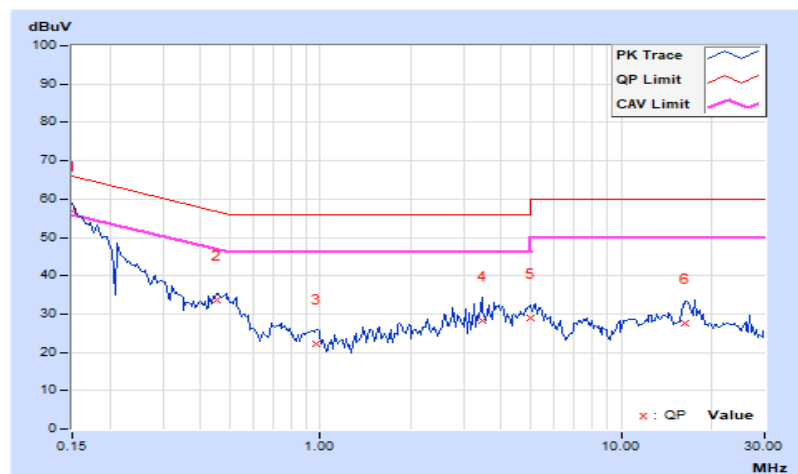


|                      |                  |                                          |                                       |
|----------------------|------------------|------------------------------------------|---------------------------------------|
| RF Mode              | BT-LE 2M         | Channel                                  | CH 1 : 2404 MHz                       |
| Frequency Range      | 150 kHz ~ 30 MHz | Detector Function & Resolution Bandwidth | Quasi-Peak (QP) / Average (AV), 9 kHz |
| Input Power (System) | 120 Vac, 60 Hz   | Environmental Conditions                 | 25 °C, 75 % RH                        |
| Tested By            | Willy Lin        |                                          |                                       |

| Phase Of Power : Neutral (N) |                 |                        |                      |       |                       |       |              |       |             |        |
|------------------------------|-----------------|------------------------|----------------------|-------|-----------------------|-------|--------------|-------|-------------|--------|
| No                           | Frequency (MHz) | Correction Factor (dB) | Reading Value (dBuV) |       | Emission Level (dBuV) |       | Limit (dBuV) |       | Margin (dB) |        |
|                              |                 |                        | Q.P.                 | AV.   | Q.P.                  | AV.   | Q.P.         | AV.   | Q.P.        | AV.    |
| 1                            | 0.15022         | 10.01                  | 46.88                | 32.51 | 56.89                 | 42.52 | 65.99        | 55.99 | -9.10       | -13.47 |
| 2                            | 0.45055         | 10.01                  | 23.52                | 13.22 | 33.53                 | 23.23 | 56.86        | 46.86 | -23.33      | -23.63 |
| 3                            | 0.97021         | 10.04                  | 12.13                | 5.01  | 22.17                 | 15.05 | 56.00        | 46.00 | -33.83      | -30.95 |
| 4                            | 3.45259         | 10.14                  | 18.22                | 7.41  | 28.36                 | 17.55 | 56.00        | 46.00 | -27.64      | -28.45 |
| 5                            | 4.97558         | 10.20                  | 18.87                | 11.55 | 29.07                 | 21.75 | 56.00        | 46.00 | -26.93      | -24.25 |
| 6                            | 16.31577        | 10.65                  | 16.95                | 9.35  | 27.60                 | 20.00 | 60.00        | 50.00 | -32.40      | -30.00 |

#### Remarks:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level – Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value



## 7.6 Unwanted Emissions below 1 GHz

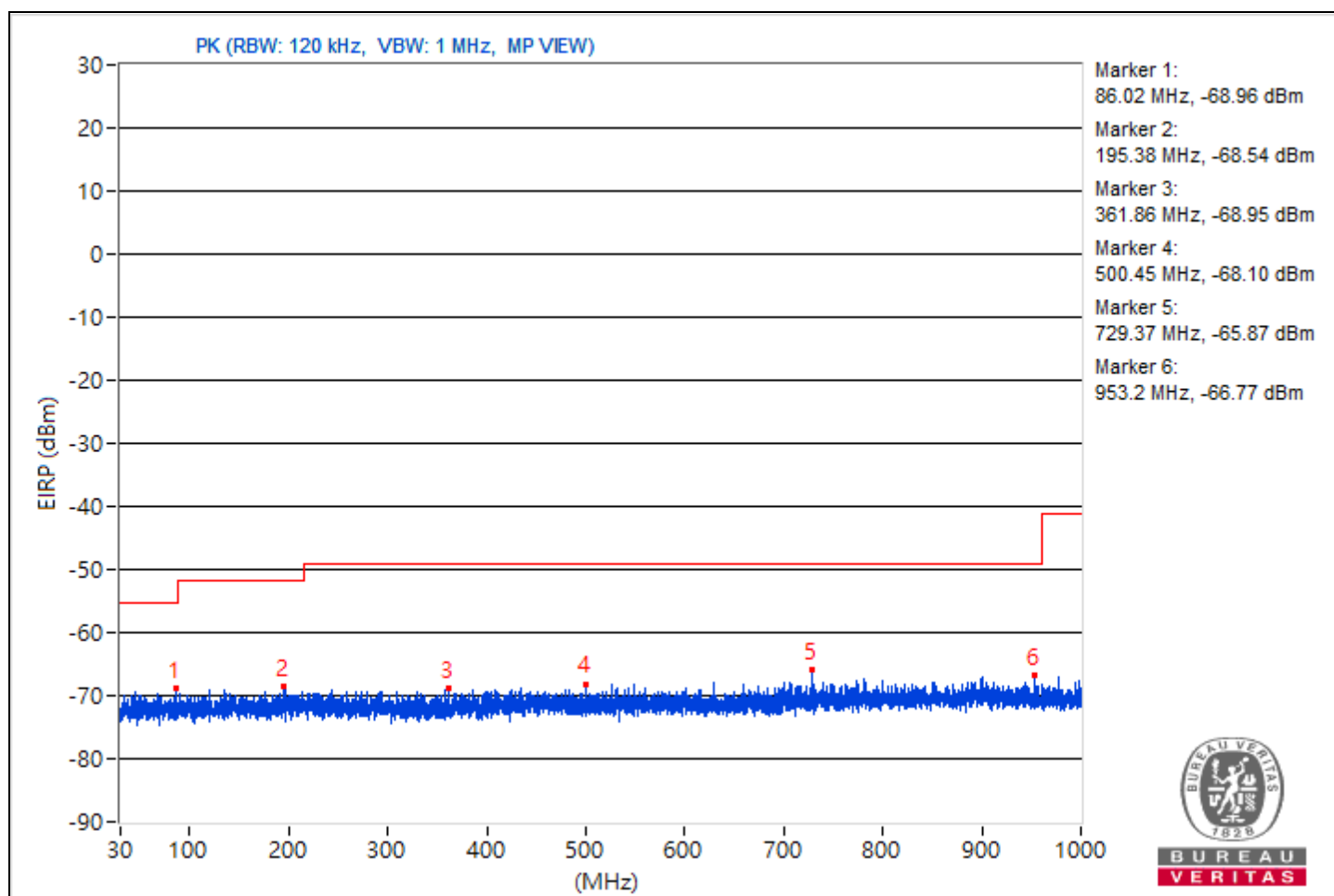
### Mode A

|                 |                |                          |                 |
|-----------------|----------------|--------------------------|-----------------|
| RF Mode         | BT-LE 2M       | Channel                  | CH 1 : 2404 MHz |
| Frequency Range | 30 MHz ~ 1 GHz | Environmental Conditions | 22°C, 60% RH    |
| Tested By       | Henry          |                          |                 |

| Conducted Unwanted Emissions |                 |                         |                |             |                         |                        |                  |
|------------------------------|-----------------|-------------------------|----------------|-------------|-------------------------|------------------------|------------------|
| No.                          | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Raw Value Chain 0 (dBm) | Correction Factor (dB) | EIRP Level (dBm) |
| 1                            | 86.02           | 26.3 PK                 | 40             | -13.7       | -82.03                  | 13.07                  | -68.96           |
| 2                            | 195.38          | 26.72 PK                | 43.5           | -16.78      | -81.61                  | 13.07                  | -68.54           |
| 3                            | 361.86          | 26.31 PK                | 46             | -19.69      | -82.02                  | 13.07                  | -68.95           |
| 4                            | 500.45          | 27.16 PK                | 46             | -18.84      | -81.17                  | 13.07                  | -68.1            |
| 5                            | 729.37          | 29.39 PK                | 46             | -16.61      | -78.94                  | 13.07                  | -65.87           |
| 6                            | 953.2           | 28.49 PK                | 46             | -17.51      | -79.84                  | 13.07                  | -66.77           |

#### Notes:

1. Margin value = Emission Level - Limit value
2. The frequency range 9 kHz ~ 30 MHz: all emissions are more than 20 dB below the limit, therefore do not be recorded in this report.



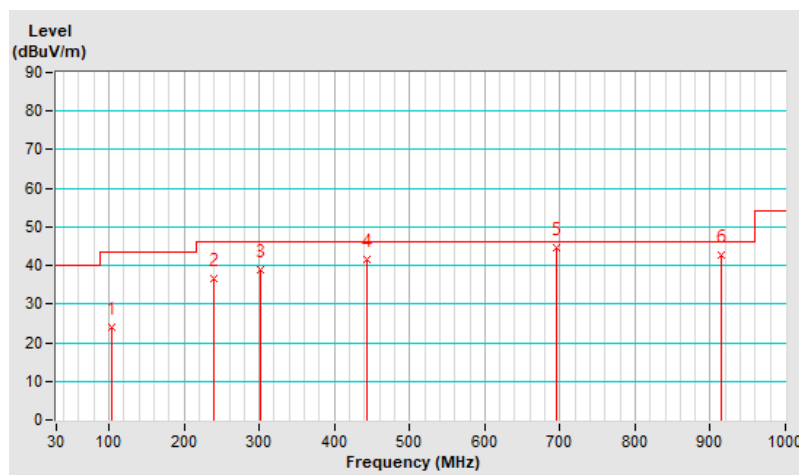
## Mode B

|                      |                |                               |                               |
|----------------------|----------------|-------------------------------|-------------------------------|
| RF Mode              | BT-LE 2M       | Channel                       | CH 1 : 2404 MHz               |
| Frequency Range      | 30 MHz ~ 1 GHz | Detector Function & Bandwidth | QP: RB=120kHz, DET=Quasi-Peak |
| Input Power (System) | 120 Vac, 60 Hz | Environmental Conditions      | 22 °C, 65 % RH                |
| Tested By            | Willy Lin      |                               |                               |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |                         |                |             |                    |                      |                  |                          |
|------------------------------------------------------|-----------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 104.33          | 24.0 QP                 | 43.5           | -19.5       | 1.50 H             | 299                  | 40.2             | -16.2                    |
| 2                                                    | 238.99          | 36.6 QP                 | 46.0           | -9.4        | 2.00 H             | 258                  | 51.1             | -14.5                    |
| 3                                                    | 302.15          | 38.8 QP                 | 46.0           | -7.2        | 1.50 H             | 283                  | 51.1             | -12.3                    |
| 4                                                    | 442.50          | 41.4 QP                 | 46.0           | -4.6        | 2.00 H             | 301                  | 49.8             | -8.4                     |
| 5                                                    | 696.03          | 44.5 QP                 | 46.0           | -1.5        | 1.50 H             | 240                  | 48.0             | -3.5                     |
| 6                                                    | 914.35          | 42.8 QP                 | 46.0           | -3.2        | 1.00 H             | 218                  | 42.7             | 0.1                      |

### Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The frequency range 9 kHz ~ 30 MHz: all emissions are more than 20 dB below the limit, therefore do not be recorded in this report.

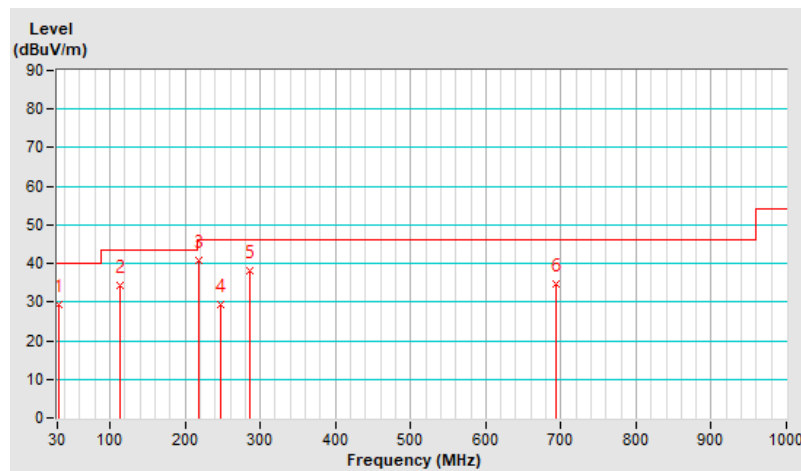


|                      |                |                               |                               |
|----------------------|----------------|-------------------------------|-------------------------------|
| RF Mode              | BT-LE 2M       | Channel                       | CH 1 : 2404 MHz               |
| Frequency Range      | 30 MHz ~ 1 GHz | Detector Function & Bandwidth | QP: RB=120kHz, DET=Quasi-Peak |
| Input Power (System) | 120 Vac, 60 Hz | Environmental Conditions      | 22 °C, 65 % RH                |
| Tested By            | Willy Lin      |                               |                               |

| Antenna Polarity & Test Distance : Vertical at 3 m |                 |                         |                |             |                    |                      |                  |                          |
|----------------------------------------------------|-----------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                 | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                  | 31.55           | 29.5 QP                 | 40.0           | -10.5       | 1.50 V             | 256                  | 43.3             | -13.8                    |
| 2                                                  | 112.93          | 34.3 QP                 | 43.5           | -9.2        | 1.50 V             | 346                  | 49.7             | -15.4                    |
| 3                                                  | 218.91          | 40.7 QP                 | 46.0           | -5.3        | 3.00 V             | 180                  | 57.2             | -16.5                    |
| 4                                                  | 246.34          | 29.3 QP                 | 46.0           | -16.7       | 2.00 V             | 53                   | 43.5             | -14.2                    |
| 5                                                  | 286.71          | 38.0 QP                 | 46.0           | -8.0        | 2.00 V             | 273                  | 50.7             | -12.7                    |
| 6                                                  | 693.83          | 34.8 QP                 | 46.0           | -11.2       | 1.50 V             | 48                   | 38.3             | -3.5                     |

#### Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The frequency range 9 kHz ~ 30 MHz: all emissions are more than 20 dB below the limit, therefore do not be recorded in this report.



## 7.7 Unwanted Emissions above 1 GHz

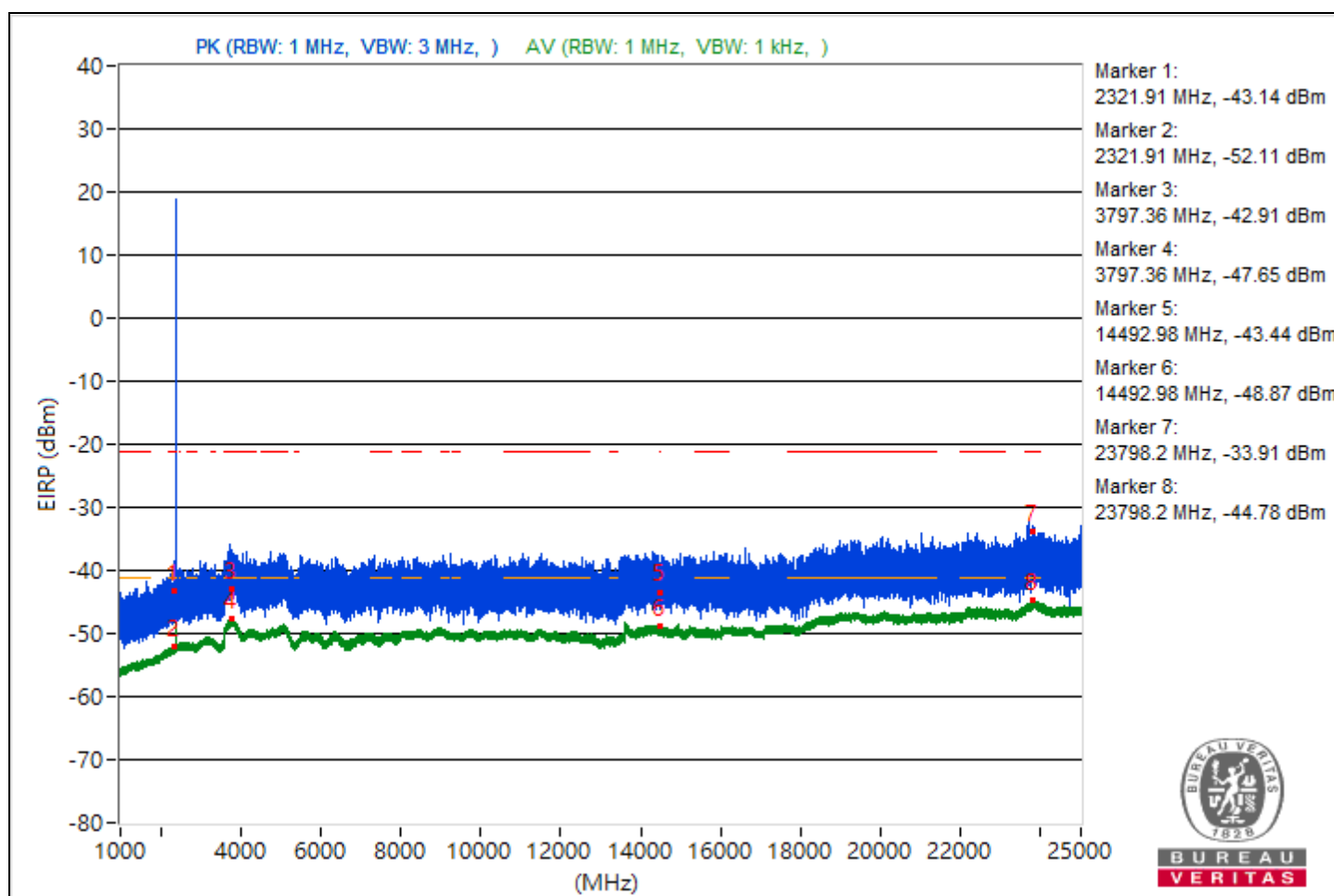
### Mode A

#### Conducted Unwanted Emissions

|                 |                |                          |                 |
|-----------------|----------------|--------------------------|-----------------|
| RF Mode         | BT-LE 125k     | Channel                  | CH 0 : 2402 MHz |
| Frequency Range | 1 GHz ~ 25 GHz | Environmental Conditions | 20°C, 60% RH    |
| Tested By       | Henry          |                          |                 |

| Conducted Unwanted Emissions |                 |                         |                |             |                         |                        |                  |
|------------------------------|-----------------|-------------------------|----------------|-------------|-------------------------|------------------------|------------------|
| No.                          | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Raw Value Chain 0 (dBm) | Correction Factor (dB) | EIRP Level (dBm) |
| 1                            | 2321.91         | 52.12 PK                | 74             | -21.88      | -51.51                  | 8.37                   | -43.14           |
| 2                            | 2321.91         | 43.15 AV                | 54             | -10.85      | -60.48                  | 8.37                   | -52.11           |
| 3                            | 3797.36         | 52.35 PK                | 74             | -21.65      | -51.28                  | 8.37                   | -42.91           |
| 4                            | 3797.36         | 47.61 AV                | 54             | -6.39       | -56.02                  | 8.37                   | -47.65           |
| 5                            | 14492.98        | 51.82 PK                | 74             | -22.18      | -51.81                  | 8.37                   | -43.44           |
| 6                            | 14492.98        | 46.39 AV                | 54             | -7.61       | -57.24                  | 8.37                   | -48.87           |
| 7                            | 23798.2         | 61.35 PK                | 74             | -12.65      | -42.28                  | 8.37                   | -33.91           |
| 8                            | 23798.2         | 50.48 AV                | 54             | -3.52       | -53.15                  | 8.37                   | -44.78           |

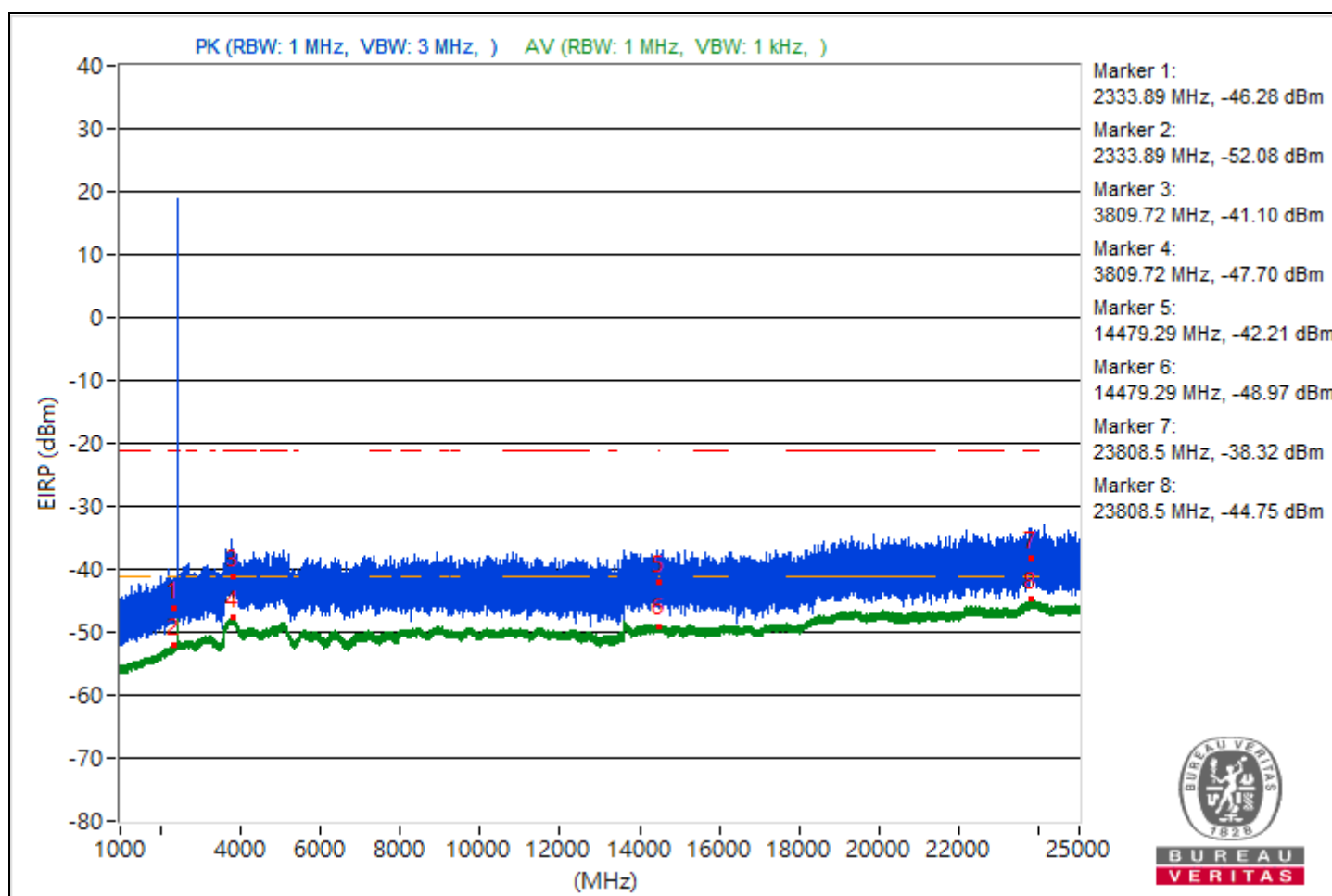
Note: Margin value = Emission Level - Limit value



|                 |                |                          |                  |
|-----------------|----------------|--------------------------|------------------|
| RF Mode         | BT-LE 125k     | Channel                  | CH 19 : 2440 MHz |
| Frequency Range | 1 GHz ~ 25 GHz | Environmental Conditions | 20°C, 60% RH     |
| Tested By       | Henry          |                          |                  |

| Conducted Unwanted Emissions |                 |                         |                |             |                         |                        |                  |
|------------------------------|-----------------|-------------------------|----------------|-------------|-------------------------|------------------------|------------------|
| No.                          | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Raw Value Chain 0 (dBm) | Correction Factor (dB) | EIRP Level (dBm) |
| 1                            | 2333.89         | 48.98 PK                | 74             | -25.02      | -54.65                  | 8.37                   | -46.28           |
| 2                            | 2333.89         | 43.18 AV                | 54             | -10.82      | -60.45                  | 8.37                   | -52.08           |
| 3                            | 3809.72         | 54.16 PK                | 74             | -19.84      | -49.47                  | 8.37                   | -41.1            |
| 4                            | 3809.72         | 47.56 AV                | 54             | -6.44       | -56.07                  | 8.37                   | -47.7            |
| 5                            | 14479.29        | 53.05 PK                | 74             | -20.95      | -50.58                  | 8.37                   | -42.21           |
| 6                            | 14479.29        | 46.29 AV                | 54             | -7.71       | -57.34                  | 8.37                   | -48.97           |
| 7                            | 23808.5         | 56.94 PK                | 74             | -17.06      | -46.69                  | 8.37                   | -38.32           |
| 8                            | 23808.5         | 50.51 AV                | 54             | -3.49       | -53.12                  | 8.37                   | -44.75           |

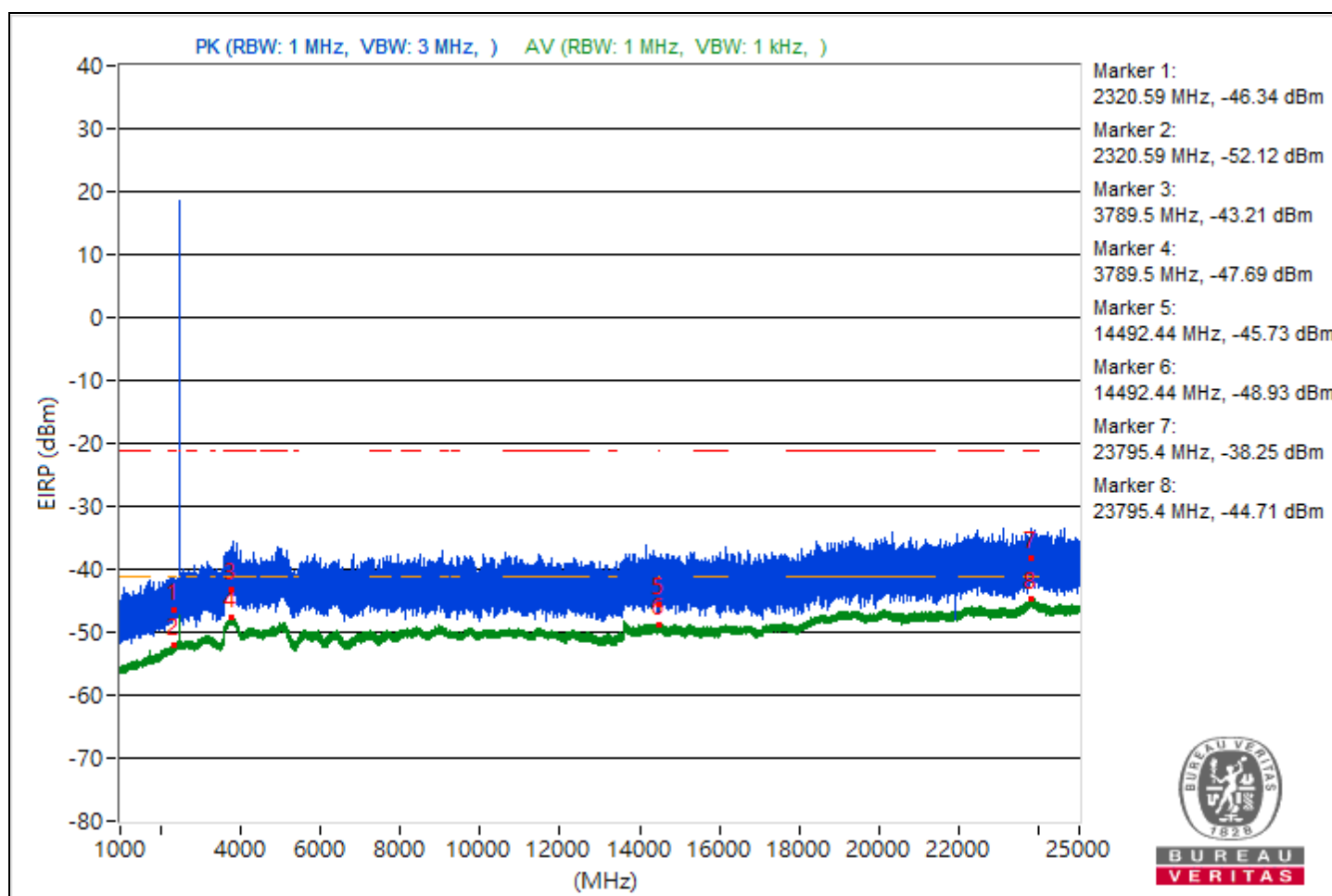
Note: Margin value = Emission Level - Limit value



|                 |                |                          |                  |
|-----------------|----------------|--------------------------|------------------|
| RF Mode         | BT-LE 125k     | Channel                  | CH 39 : 2480 MHz |
| Frequency Range | 1 GHz ~ 25 GHz | Environmental Conditions | 20°C, 60% RH     |
| Tested By       | Henry          |                          |                  |

| Conducted Unwanted Emissions |                 |                         |                |             |                         |                        |                  |
|------------------------------|-----------------|-------------------------|----------------|-------------|-------------------------|------------------------|------------------|
| No.                          | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Raw Value Chain 0 (dBm) | Correction Factor (dB) | EIRP Level (dBm) |
| 1                            | 2320.59         | 48.92 PK                | 74             | -25.08      | -54.71                  | 8.37                   | -46.34           |
| 2                            | 2320.59         | 43.14 AV                | 54             | -10.86      | -60.49                  | 8.37                   | -52.12           |
| 3                            | 3789.5          | 52.05 PK                | 74             | -21.95      | -51.58                  | 8.37                   | -43.21           |
| 4                            | 3789.5          | 47.57 AV                | 54             | -6.43       | -56.06                  | 8.37                   | -47.69           |
| 5                            | 14492.44        | 49.53 PK                | 74             | -24.47      | -54.1                   | 8.37                   | -45.73           |
| 6                            | 14492.44        | 46.33 AV                | 54             | -7.67       | -57.3                   | 8.37                   | -48.93           |
| 7                            | 23795.4         | 57.01 PK                | 74             | -16.99      | -46.62                  | 8.37                   | -38.25           |
| 8                            | 23795.4         | 50.55 AV                | 54             | -3.45       | -53.08                  | 8.37                   | -44.71           |

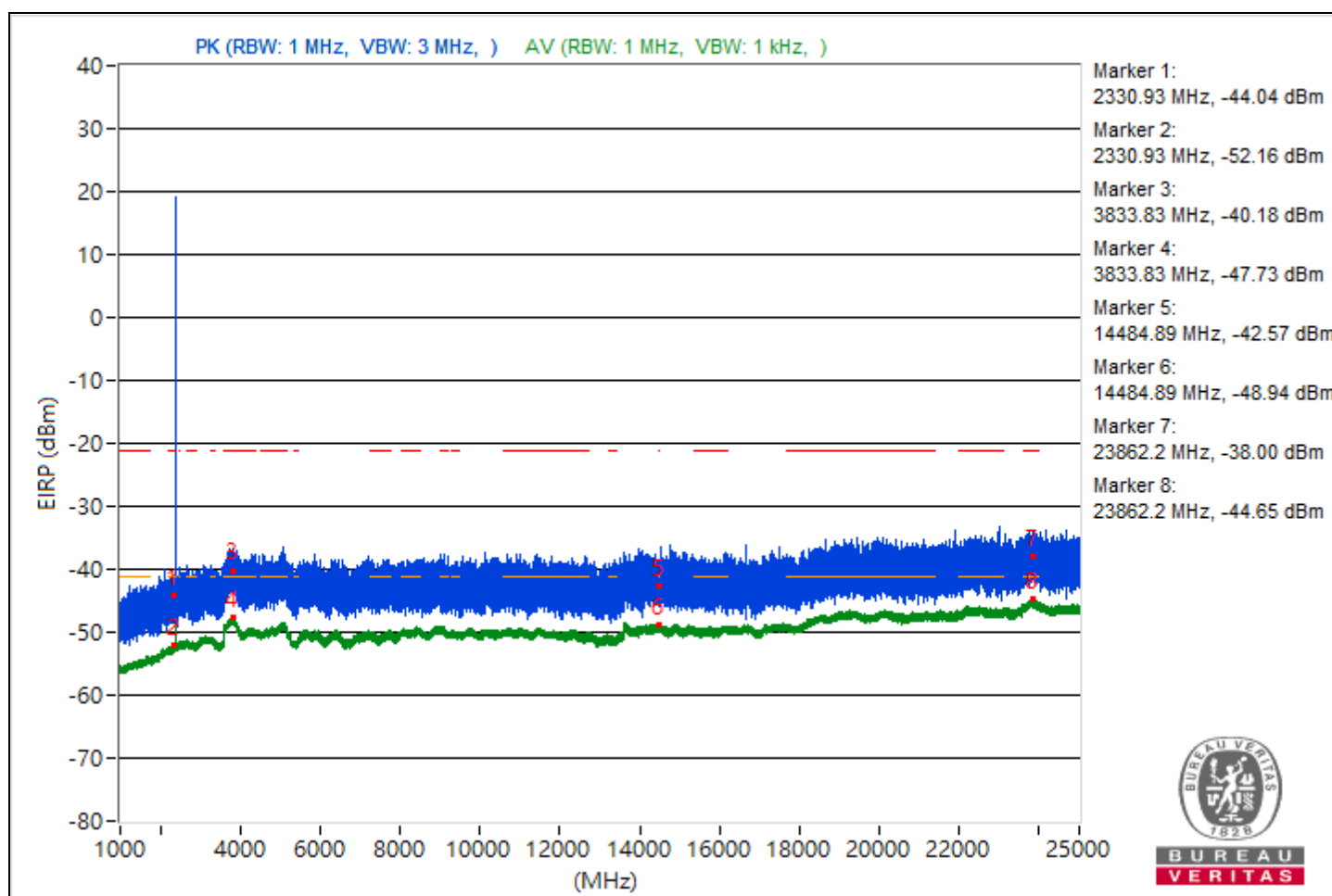
Note: Margin value = Emission Level - Limit value



|                 |                |                          |                 |
|-----------------|----------------|--------------------------|-----------------|
| RF Mode         | BT-LE 500k     | Channel                  | CH 0 : 2402 MHz |
| Frequency Range | 1 GHz ~ 25 GHz | Environmental Conditions | 20°C, 60% RH    |
| Tested By       | Henry          |                          |                 |

| Conducted Unwanted Emissions |                 |                         |                |             |                         |                        |                  |
|------------------------------|-----------------|-------------------------|----------------|-------------|-------------------------|------------------------|------------------|
| No.                          | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Raw Value Chain 0 (dBm) | Correction Factor (dB) | EIRP Level (dBm) |
| 1                            | 2330.93         | 51.22 PK                | 74             | -22.78      | -52.41                  | 8.37                   | -44.04           |
| 2                            | 2330.93         | 43.1 AV                 | 54             | -10.9       | -60.53                  | 8.37                   | -52.16           |
| 3                            | 3833.83         | 55.08 PK                | 74             | -18.92      | -48.55                  | 8.37                   | -40.18           |
| 4                            | 3833.83         | 47.53 AV                | 54             | -6.47       | -56.1                   | 8.37                   | -47.73           |
| 5                            | 14484.89        | 52.69 PK                | 74             | -21.31      | -50.94                  | 8.37                   | -42.57           |
| 6                            | 14484.89        | 46.32 AV                | 54             | -7.68       | -57.31                  | 8.37                   | -48.94           |
| 7                            | 23862.2         | 57.26 PK                | 74             | -16.74      | -46.37                  | 8.37                   | -38              |
| 8                            | 23862.2         | 50.61 AV                | 54             | -3.39       | -53.02                  | 8.37                   | -44.65           |

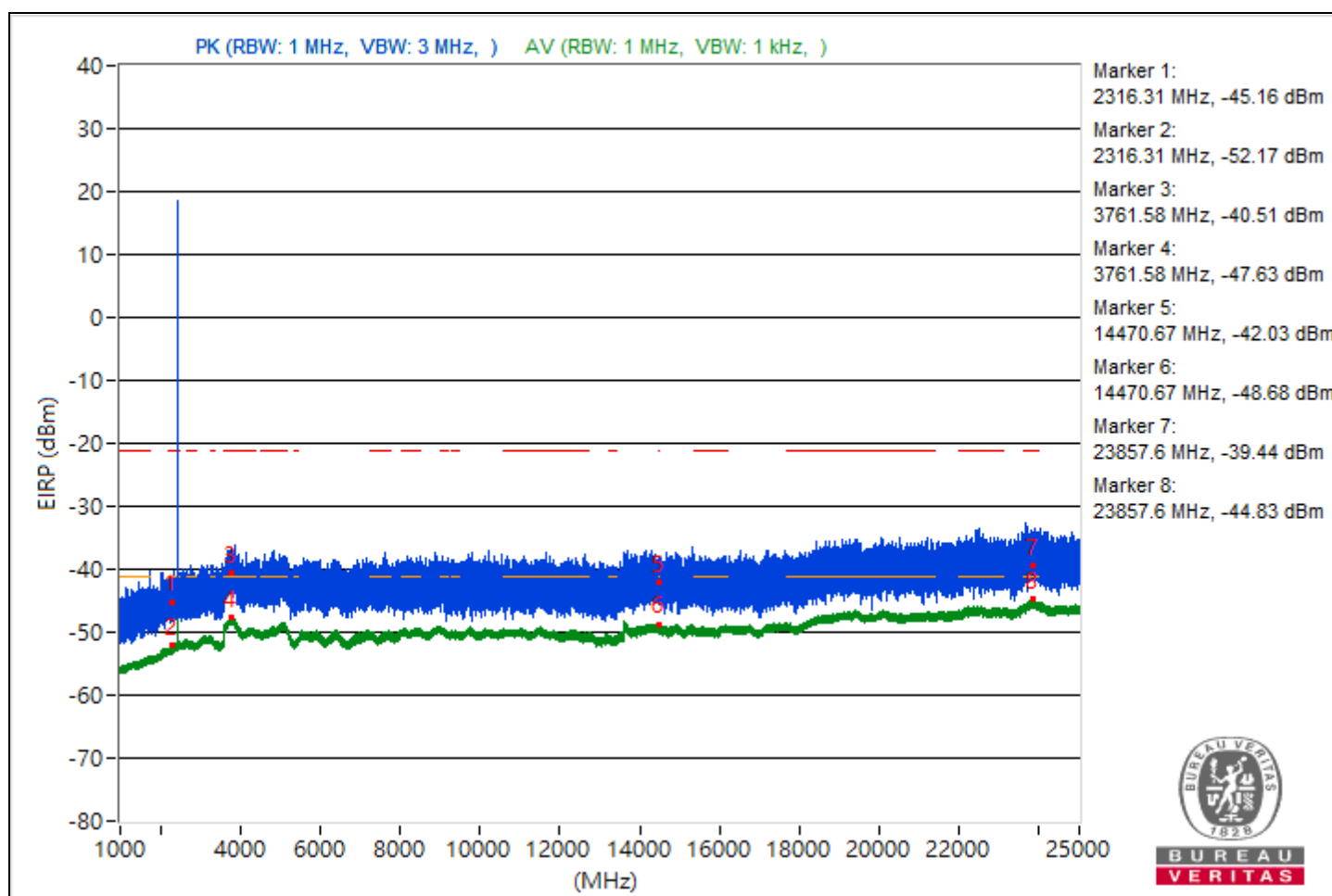
Note: Margin value = Emission Level - Limit value



|                 |                |                          |                  |
|-----------------|----------------|--------------------------|------------------|
| RF Mode         | BT-LE 500k     | Channel                  | CH 19 : 2440 MHz |
| Frequency Range | 1 GHz ~ 25 GHz | Environmental Conditions | 20°C, 60% RH     |
| Tested By       | Henry          |                          |                  |

| Conducted Unwanted Emissions |                 |                         |                |             |                         |                        |                  |
|------------------------------|-----------------|-------------------------|----------------|-------------|-------------------------|------------------------|------------------|
| No.                          | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Raw Value Chain 0 (dBm) | Correction Factor (dB) | EIRP Level (dBm) |
| 1                            | 2316.31         | 50.1 PK                 | 74             | -23.9       | -53.53                  | 8.37                   | -45.16           |
| 2                            | 2316.31         | 43.09 AV                | 54             | -10.91      | -60.54                  | 8.37                   | -52.17           |
| 3                            | 3761.58         | 54.75 PK                | 74             | -19.25      | -48.88                  | 8.37                   | -40.51           |
| 4                            | 3761.58         | 47.63 AV                | 54             | -6.37       | -56                     | 8.37                   | -47.63           |
| 5                            | 14470.67        | 53.23 PK                | 74             | -20.77      | -50.4                   | 8.37                   | -42.03           |
| 6                            | 14470.67        | 46.58 AV                | 54             | -7.42       | -57.05                  | 8.37                   | -48.68           |
| 7                            | 23857.6         | 55.82 PK                | 74             | -18.18      | -47.81                  | 8.37                   | -39.44           |
| 8                            | 23857.6         | 50.43 AV                | 54             | -3.57       | -53.2                   | 8.37                   | -44.83           |

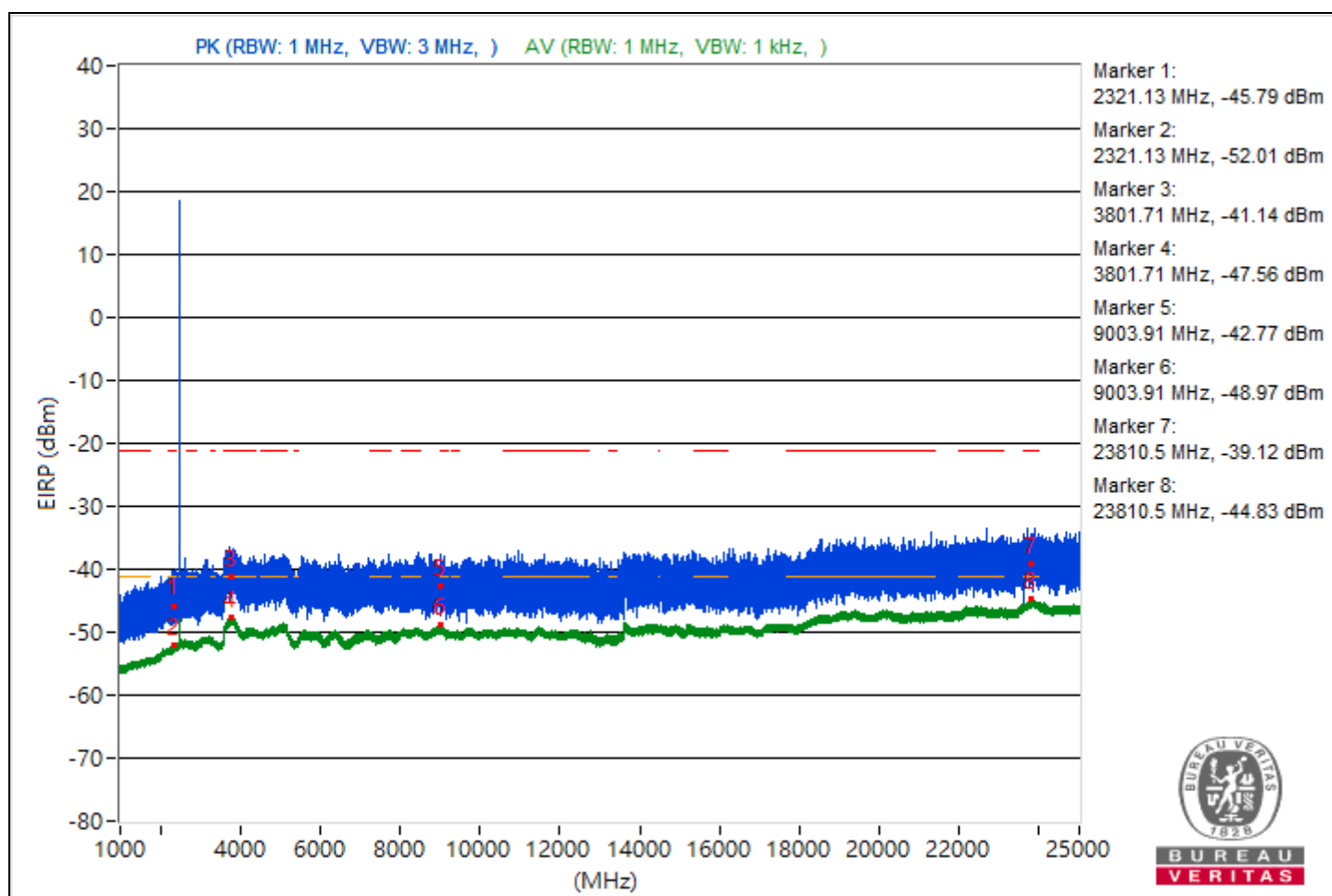
Note: Margin value = Emission Level - Limit value



|                 |                |                          |                  |
|-----------------|----------------|--------------------------|------------------|
| RF Mode         | BT-LE 500k     | Channel                  | CH 39 : 2480 MHz |
| Frequency Range | 1 GHz ~ 25 GHz | Environmental Conditions | 20°C, 60% RH     |
| Tested By       | Henry          |                          |                  |

| Conducted Unwanted Emissions |                 |                         |                |             |                         |                        |                  |
|------------------------------|-----------------|-------------------------|----------------|-------------|-------------------------|------------------------|------------------|
| No.                          | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Raw Value Chain 0 (dBm) | Correction Factor (dB) | EIRP Level (dBm) |
| 1                            | 2321.13         | 49.47 PK                | 74             | -24.53      | -54.16                  | 8.37                   | -45.79           |
| 2                            | 2321.13         | 43.25 AV                | 54             | -10.75      | -60.38                  | 8.37                   | -52.01           |
| 3                            | 3801.71         | 54.12 PK                | 74             | -19.88      | -49.51                  | 8.37                   | -41.14           |
| 4                            | 3801.71         | 47.7 AV                 | 54             | -6.3        | -55.93                  | 8.37                   | -47.56           |
| 5                            | 9003.91         | 52.49 PK                | 74             | -21.51      | -51.14                  | 8.37                   | -42.77           |
| 6                            | 9003.91         | 46.29 AV                | 54             | -7.71       | -57.34                  | 8.37                   | -48.97           |
| 7                            | 23810.5         | 56.14 PK                | 74             | -17.86      | -47.49                  | 8.37                   | -39.12           |
| 8                            | 23810.5         | 50.43 AV                | 54             | -3.57       | -53.2                   | 8.37                   | -44.83           |

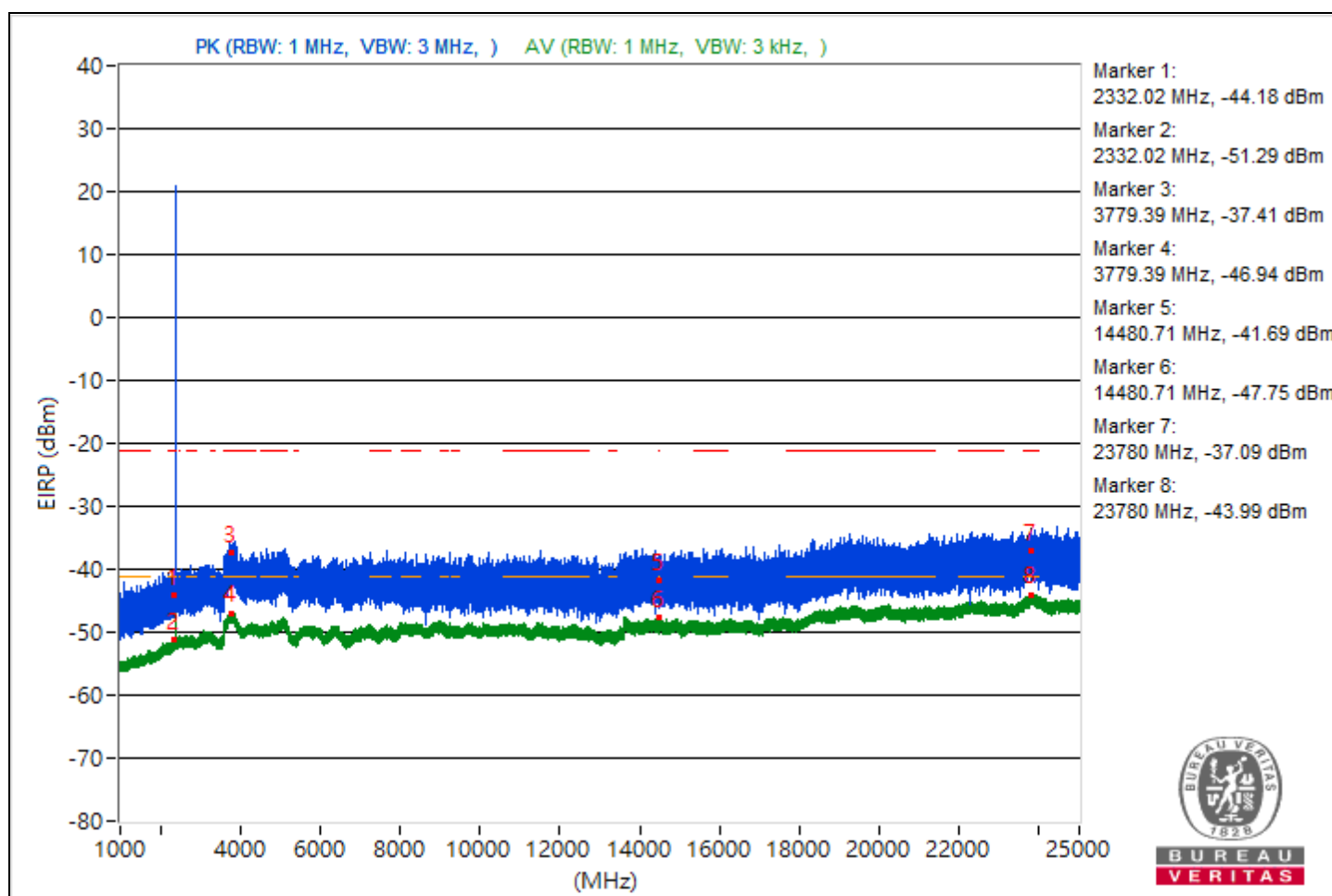
Note: Margin value = Emission Level - Limit value



|                 |                |                          |                 |
|-----------------|----------------|--------------------------|-----------------|
| RF Mode         | BT-LE 1M       | Channel                  | CH 0 : 2402 MHz |
| Frequency Range | 1 GHz ~ 25 GHz | Environmental Conditions | 20°C, 40% RH    |
| Tested By       | Henry          |                          |                 |

| Conducted Unwanted Emissions |                 |                         |                |             |                         |                        |                  |
|------------------------------|-----------------|-------------------------|----------------|-------------|-------------------------|------------------------|------------------|
| No.                          | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Raw Value Chain 0 (dBm) | Correction Factor (dB) | EIRP Level (dBm) |
| 1                            | 2332.02         | 51.08 PK                | 74             | -22.92      | -52.55                  | 8.37                   | -44.18           |
| 2                            | 2332.02         | 43.97 AV                | 54             | -10.03      | -59.66                  | 8.37                   | -51.29           |
| 3                            | 3779.39         | 57.85 PK                | 74             | -16.15      | -45.78                  | 8.37                   | -37.41           |
| 4                            | 3779.39         | 48.32 AV                | 54             | -5.68       | -55.31                  | 8.37                   | -46.94           |
| 5                            | 14480.71        | 53.57 PK                | 74             | -20.43      | -50.06                  | 8.37                   | -41.69           |
| 6                            | 14480.71        | 47.51 AV                | 54             | -6.49       | -56.12                  | 8.37                   | -47.75           |
| 7                            | 23780           | 58.17 PK                | 74             | -15.83      | -45.46                  | 8.37                   | -37.09           |
| 8                            | 23780           | 51.27 AV                | 54             | -2.73       | -52.36                  | 8.37                   | -43.99           |

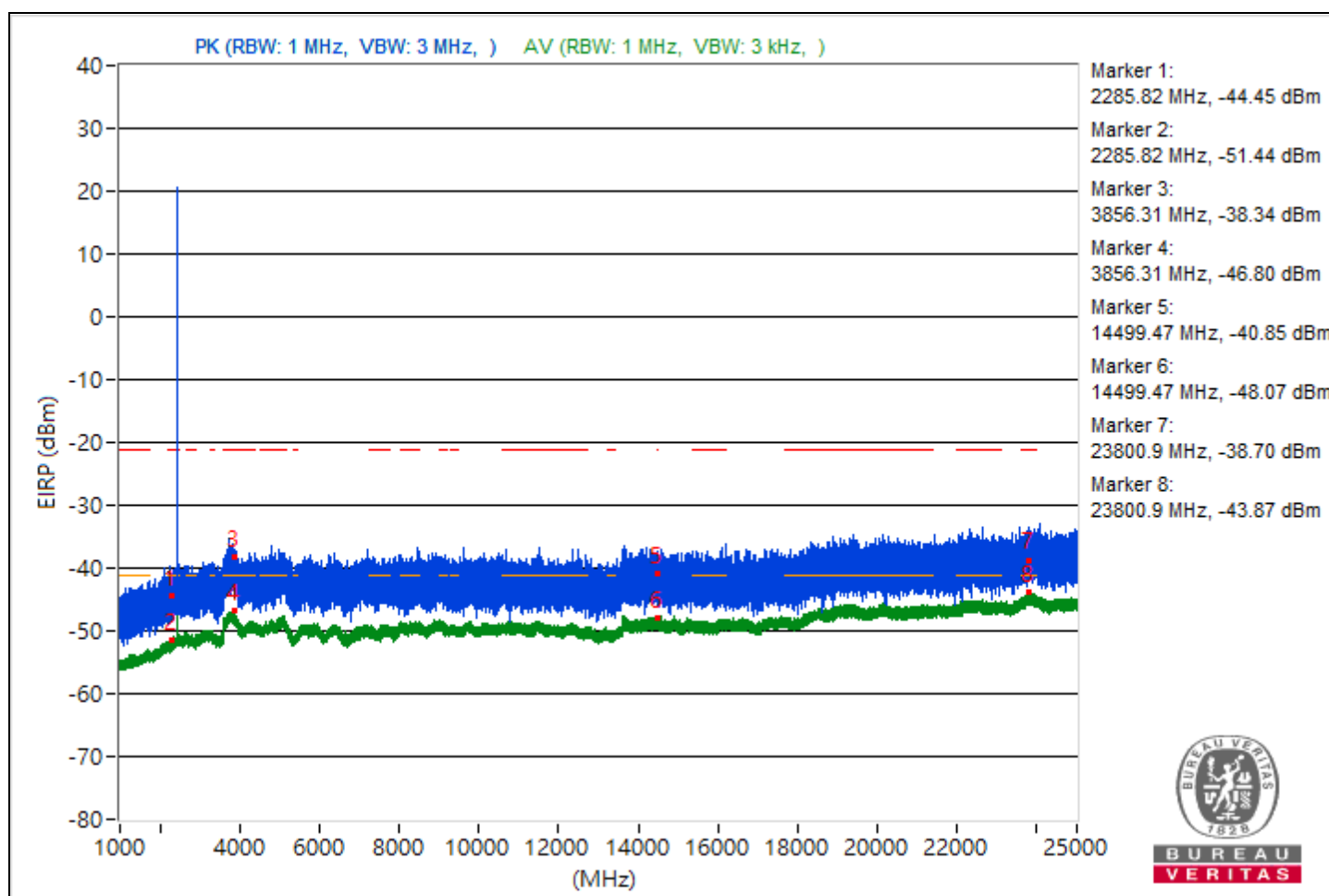
Note: Margin value = Emission Level - Limit value



|                 |                |                          |                  |
|-----------------|----------------|--------------------------|------------------|
| RF Mode         | BT-LE 1M       | Channel                  | CH 19 : 2440 MHz |
| Frequency Range | 1 GHz ~ 25 GHz | Environmental Conditions | 20°C, 40% RH     |
| Tested By       | Henry          |                          |                  |

| Conducted Unwanted Emissions |                 |                         |                |              |                         |                        |                  |
|------------------------------|-----------------|-------------------------|----------------|--------------|-------------------------|------------------------|------------------|
| No.                          | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB)  | Raw Value Chain 0 (dBm) | Correction Factor (dB) | EIRP Level (dBm) |
| 1                            | 2285.82         | 50.81 PK                | 74             | -23.19       | -52.82                  | 8.37                   | -44.45           |
| 2                            | 2285.82         | 43.82 AV                | 54             | -10.18       | -59.81                  | 8.37                   | -51.44           |
| 3                            | 3856.31         | 56.92 PK                | 74             | -17.08       | -46.71                  | 8.37                   | -38.34           |
| 4                            | 3856.31         | 48.46 AV                | 54             | -5.54        | -55.17                  | 8.37                   | -46.8            |
| 5                            | 14499.47        | 54.41 PK                | 74             | -19.59       | -49.22                  | 8.37                   | -40.85           |
| 6                            | 14499.47        | 47.19 AV                | 54             | -6.81        | -56.44                  | 8.37                   | -48.07           |
| 7                            | 23800.9         | 56.56 PK                | 74             | -17.44       | -47.07                  | 8.37                   | -38.7            |
| 8                            | <b>23800.9</b>  | <b>51.39 AV</b>         | <b>54</b>      | <b>-2.61</b> | <b>-52.24</b>           | <b>8.37</b>            | <b>-43.87</b>    |

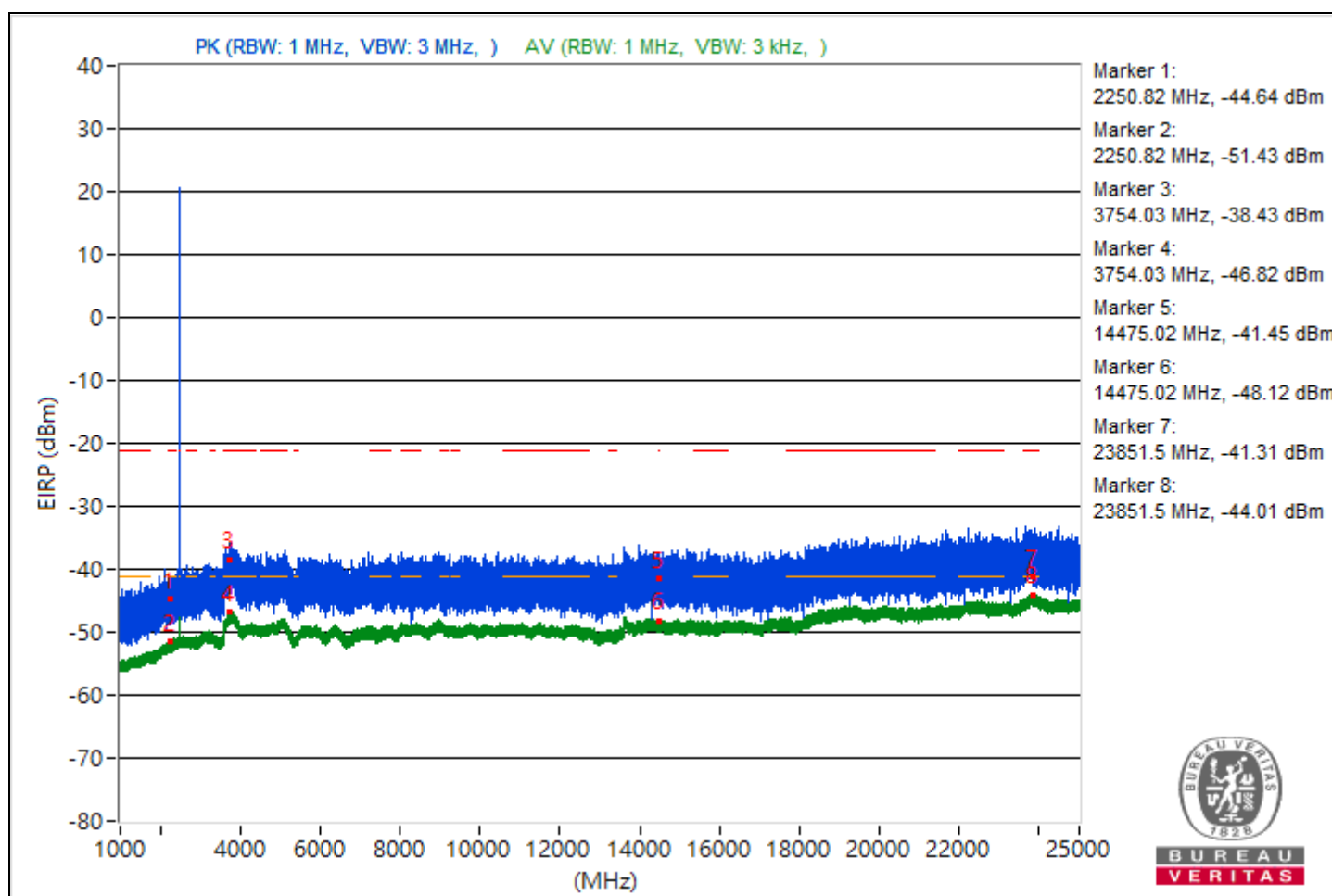
Note: Margin value = Emission Level - Limit value



|                 |                |                          |                  |
|-----------------|----------------|--------------------------|------------------|
| RF Mode         | BT-LE 1M       | Channel                  | CH 39 : 2480 MHz |
| Frequency Range | 1 GHz ~ 25 GHz | Environmental Conditions | 20°C, 40% RH     |
| Tested By       | Henry          |                          |                  |

| Conducted Unwanted Emissions |                 |                         |                |             |                         |                        |                  |
|------------------------------|-----------------|-------------------------|----------------|-------------|-------------------------|------------------------|------------------|
| No.                          | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Raw Value Chain 0 (dBm) | Correction Factor (dB) | EIRP Level (dBm) |
| 1                            | 2250.82         | 50.62 PK                | 74             | -23.38      | -53.01                  | 8.37                   | -44.64           |
| 2                            | 2250.82         | 43.83 AV                | 54             | -10.17      | -59.8                   | 8.37                   | -51.43           |
| 3                            | 3754.03         | 56.83 PK                | 74             | -17.17      | -46.8                   | 8.37                   | -38.43           |
| 4                            | 3754.03         | 48.44 AV                | 54             | -5.56       | -55.19                  | 8.37                   | -46.82           |
| 5                            | 14475.02        | 53.81 PK                | 74             | -20.19      | -49.82                  | 8.37                   | -41.45           |
| 6                            | 14475.02        | 47.14 AV                | 54             | -6.86       | -56.49                  | 8.37                   | -48.12           |
| 7                            | 23851.5         | 53.95 PK                | 74             | -20.05      | -49.68                  | 8.37                   | -41.31           |
| 8                            | 23851.5         | 51.25 AV                | 54             | -2.75       | -52.38                  | 8.37                   | -44.01           |

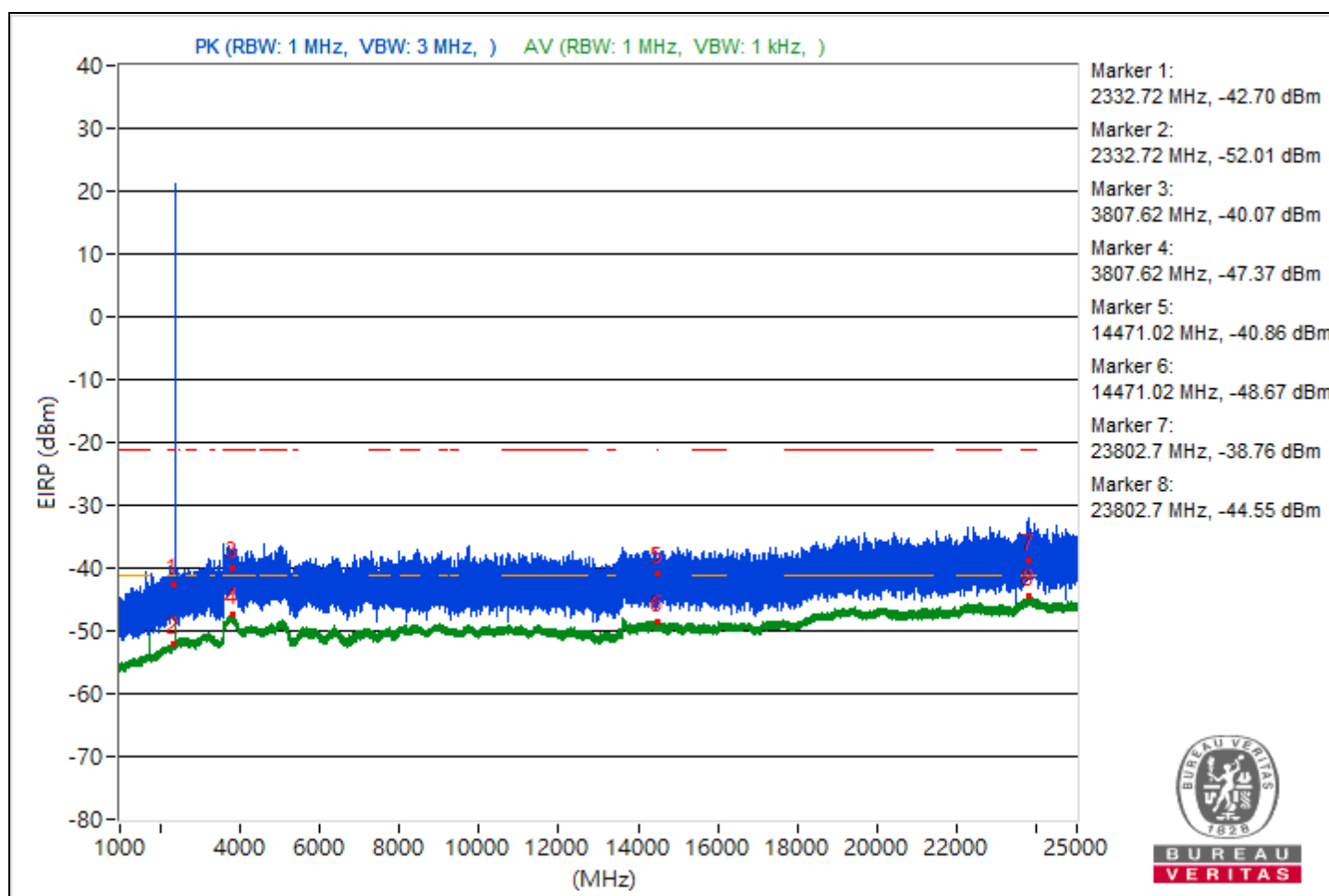
Note: Margin value = Emission Level - Limit value



|                 |                |                          |                 |
|-----------------|----------------|--------------------------|-----------------|
| RF Mode         | BT-LE 2M       | Channel                  | CH 1 : 2404 MHz |
| Frequency Range | 1 GHz ~ 25 GHz | Environmental Conditions | 20°C, 40% RH    |
| Tested By       | Henry          |                          |                 |

| Conducted Unwanted Emissions |                 |                         |                |             |                         |                        |                  |
|------------------------------|-----------------|-------------------------|----------------|-------------|-------------------------|------------------------|------------------|
| No.                          | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Raw Value Chain 0 (dBm) | Correction Factor (dB) | EIRP Level (dBm) |
| 1                            | 2332.72         | 52.56 PK                | 74             | -21.44      | -51.07                  | 8.37                   | -42.7            |
| 2                            | 2332.72         | 43.25 AV                | 54             | -10.75      | -60.38                  | 8.37                   | -52.01           |
| 3                            | 3807.62         | 55.19 PK                | 74             | -18.81      | -48.44                  | 8.37                   | -40.07           |
| 4                            | 3807.62         | 47.89 AV                | 54             | -6.11       | -55.74                  | 8.37                   | -47.37           |
| 5                            | 14471.02        | 54.4 PK                 | 74             | -19.6       | -49.23                  | 8.37                   | -40.86           |
| 6                            | 14471.02        | 46.59 AV                | 54             | -7.41       | -57.04                  | 8.37                   | -48.67           |
| 7                            | 23802.7         | 56.5 PK                 | 74             | -17.5       | -47.13                  | 8.37                   | -38.76           |
| 8                            | 23802.7         | 50.71 AV                | 54             | -3.29       | -52.92                  | 8.37                   | -44.55           |

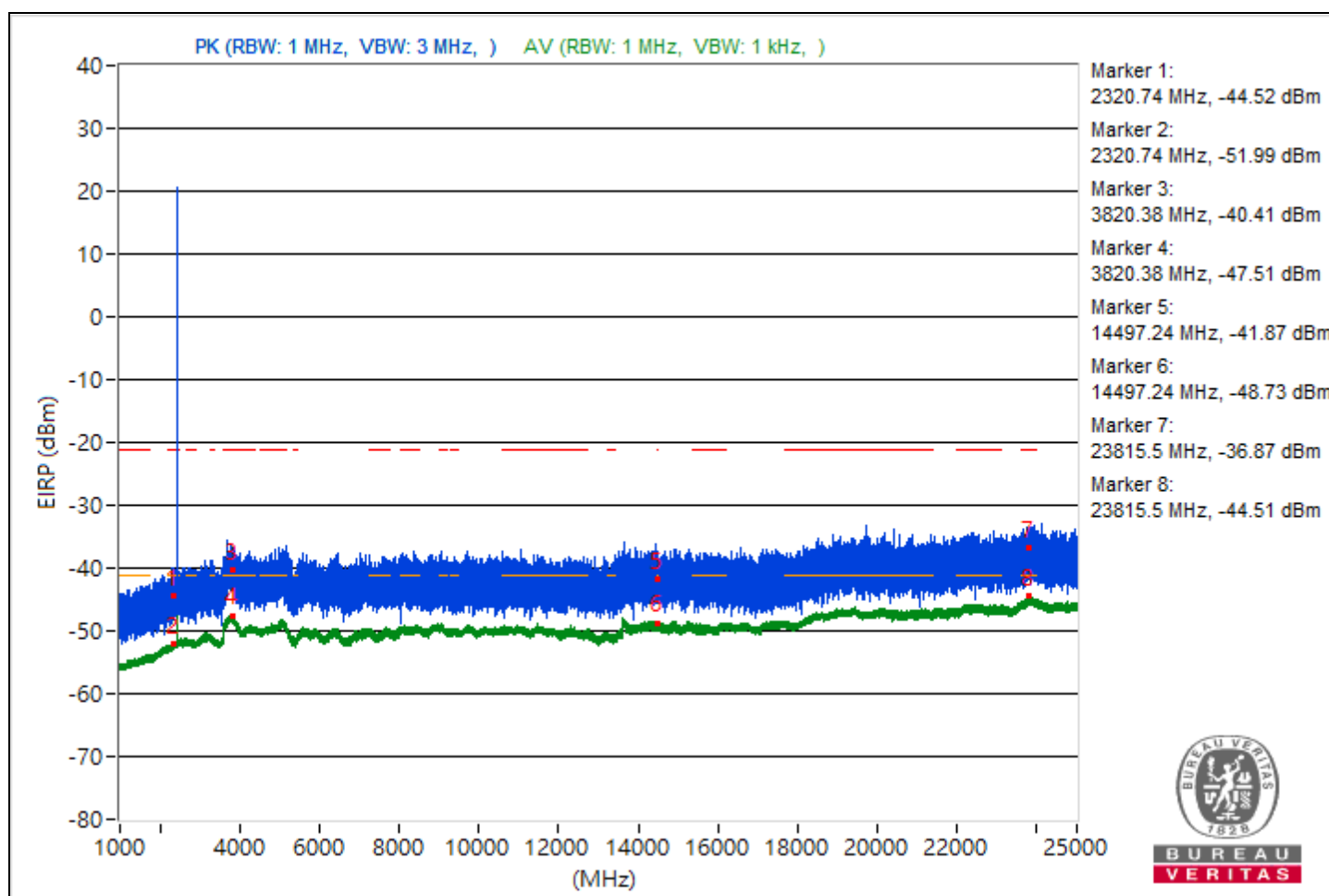
Note: Margin value = Emission Level - Limit value



|                 |                |                          |                  |
|-----------------|----------------|--------------------------|------------------|
| RF Mode         | BT-LE 2M       | Channel                  | CH 19 : 2440 MHz |
| Frequency Range | 1 GHz ~ 25 GHz | Environmental Conditions | 20°C, 40% RH     |
| Tested By       | Henry          |                          |                  |

| Conducted Unwanted Emissions |                 |                         |                |             |                         |                        |                  |
|------------------------------|-----------------|-------------------------|----------------|-------------|-------------------------|------------------------|------------------|
| No.                          | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Raw Value Chain 0 (dBm) | Correction Factor (dB) | EIRP Level (dBm) |
| 1                            | 2320.74         | 50.74 PK                | 74             | -23.26      | -52.89                  | 8.37                   | -44.52           |
| 2                            | 2320.74         | 43.27 AV                | 54             | -10.73      | -60.36                  | 8.37                   | -51.99           |
| 3                            | 3820.38         | 54.85 PK                | 74             | -19.15      | -48.78                  | 8.37                   | -40.41           |
| 4                            | 3820.38         | 47.75 AV                | 54             | -6.25       | -55.88                  | 8.37                   | -47.51           |
| 5                            | 14497.24        | 53.39 PK                | 74             | -20.61      | -50.24                  | 8.37                   | -41.87           |
| 6                            | 14497.24        | 46.53 AV                | 54             | -7.47       | -57.1                   | 8.37                   | -48.73           |
| 7                            | 23815.5         | 58.39 PK                | 74             | -15.61      | -45.24                  | 8.37                   | -36.87           |
| 8                            | 23815.5         | 50.75 AV                | 54             | -3.25       | -52.88                  | 8.37                   | -44.51           |

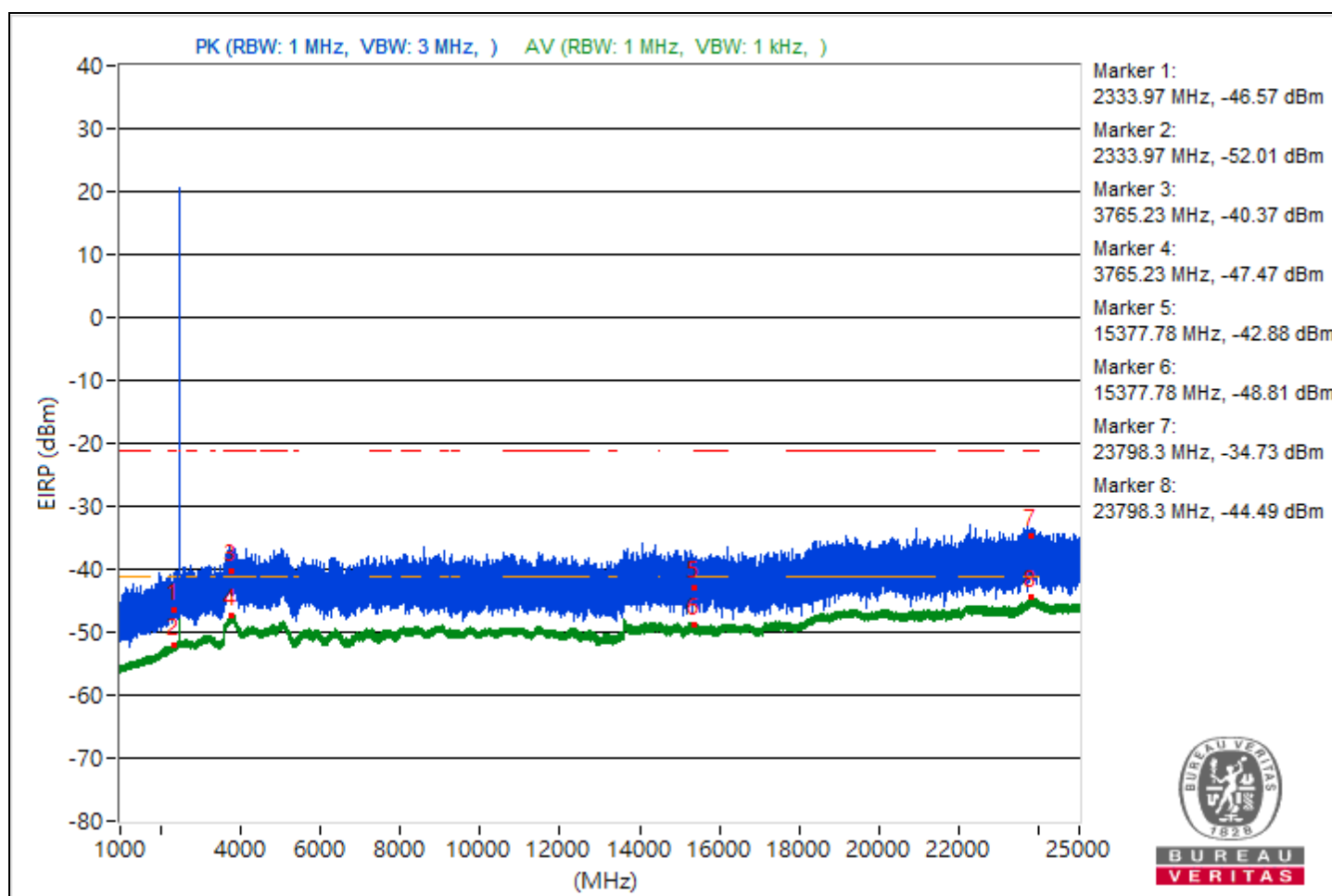
Note: Margin value = Emission Level - Limit value



|                 |                |                          |                  |
|-----------------|----------------|--------------------------|------------------|
| RF Mode         | BT-LE 2M       | Channel                  | CH 38 : 2478 MHz |
| Frequency Range | 1 GHz ~ 25 GHz | Environmental Conditions | 20°C, 40% RH     |
| Tested By       | Henry          |                          |                  |

| Conducted Unwanted Emissions |                 |                         |                |             |                         |                        |                  |
|------------------------------|-----------------|-------------------------|----------------|-------------|-------------------------|------------------------|------------------|
| No.                          | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Raw Value Chain 0 (dBm) | Correction Factor (dB) | EIRP Level (dBm) |
| 1                            | 2333.97         | 48.69 PK                | 74             | -25.31      | -54.94                  | 8.37                   | -46.57           |
| 2                            | 2333.97         | 43.25 AV                | 54             | -10.75      | -60.38                  | 8.37                   | -52.01           |
| 3                            | 3765.23         | 54.89 PK                | 74             | -19.11      | -48.74                  | 8.37                   | -40.37           |
| 4                            | 3765.23         | 47.79 AV                | 54             | -6.21       | -55.84                  | 8.37                   | -47.47           |
| 5                            | 15377.78        | 52.38 PK                | 74             | -21.62      | -51.25                  | 8.37                   | -42.88           |
| 6                            | 15377.78        | 46.45 AV                | 54             | -7.55       | -57.18                  | 8.37                   | -48.81           |
| 7                            | 23798.3         | 60.53 PK                | 74             | -13.47      | -43.1                   | 8.37                   | -34.73           |
| 8                            | 23798.3         | 50.77 AV                | 54             | -3.23       | -52.86                  | 8.37                   | -44.49           |

Note: Margin value = Emission Level - Limit value



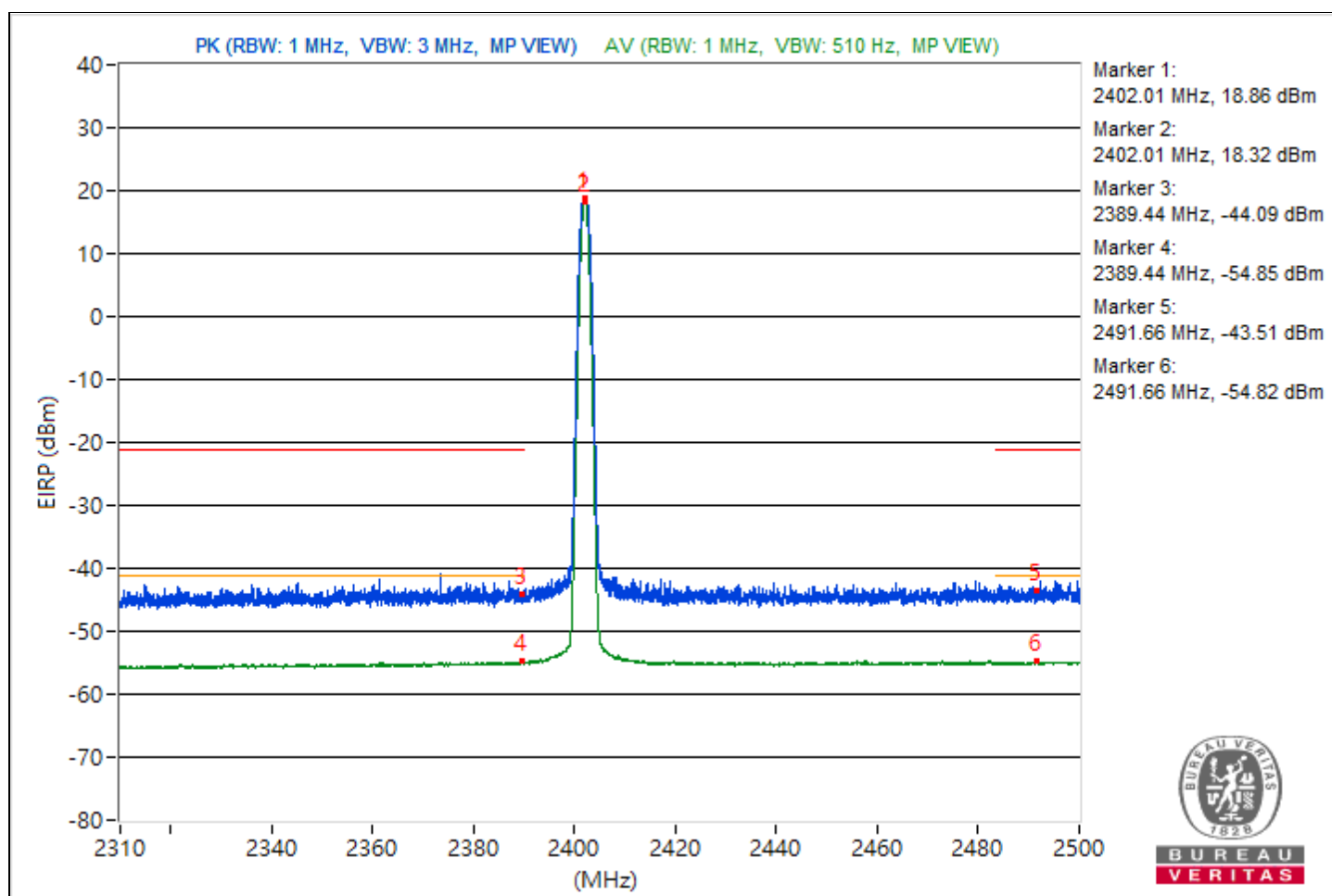
## Conducted Band Edges

|                 |                    |                          |                 |
|-----------------|--------------------|--------------------------|-----------------|
| RF Mode         | BT-LE 125k         | Channel                  | CH 0 : 2402 MHz |
| Frequency Range | 2.31 GHz ~ 2.5 GHz | Environmental Conditions | 20°C, 40% RH    |
| Tested By       | Henry              |                          |                 |

| Conducted Band Edge |                 |                         |                |             |                         |                        |                  |
|---------------------|-----------------|-------------------------|----------------|-------------|-------------------------|------------------------|------------------|
| No.                 | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Raw Value Chain 0 (dBm) | Correction Factor (dB) | EIRP Level (dBm) |
| 1                   | *2402.01        | 114.12 PK               |                |             | 12.67                   | 6.19                   | 18.86            |
| 2                   | *2402.01        | 113.58 AV               |                |             | 12.13                   | 6.19                   | 18.32            |
| 3                   | 2389.44         | 51.17 PK                | 74             | -22.83      | -50.28                  | 6.19                   | -44.09           |
| 4                   | 2389.44         | 40.41 AV                | 54             | -13.59      | -61.04                  | 6.19                   | -54.85           |
| 5                   | 2491.66         | 51.75 PK                | 74             | -22.25      | -49.7                   | 6.19                   | -43.51           |
| 6                   | 2491.66         | 40.44 AV                | 54             | -13.56      | -61.01                  | 6.19                   | -54.82           |

### Notes:

1. Margin value = Emission Level - Limit value
2. " \* " : Fundamental frequency, the limit was restricted at the RF Output Power.

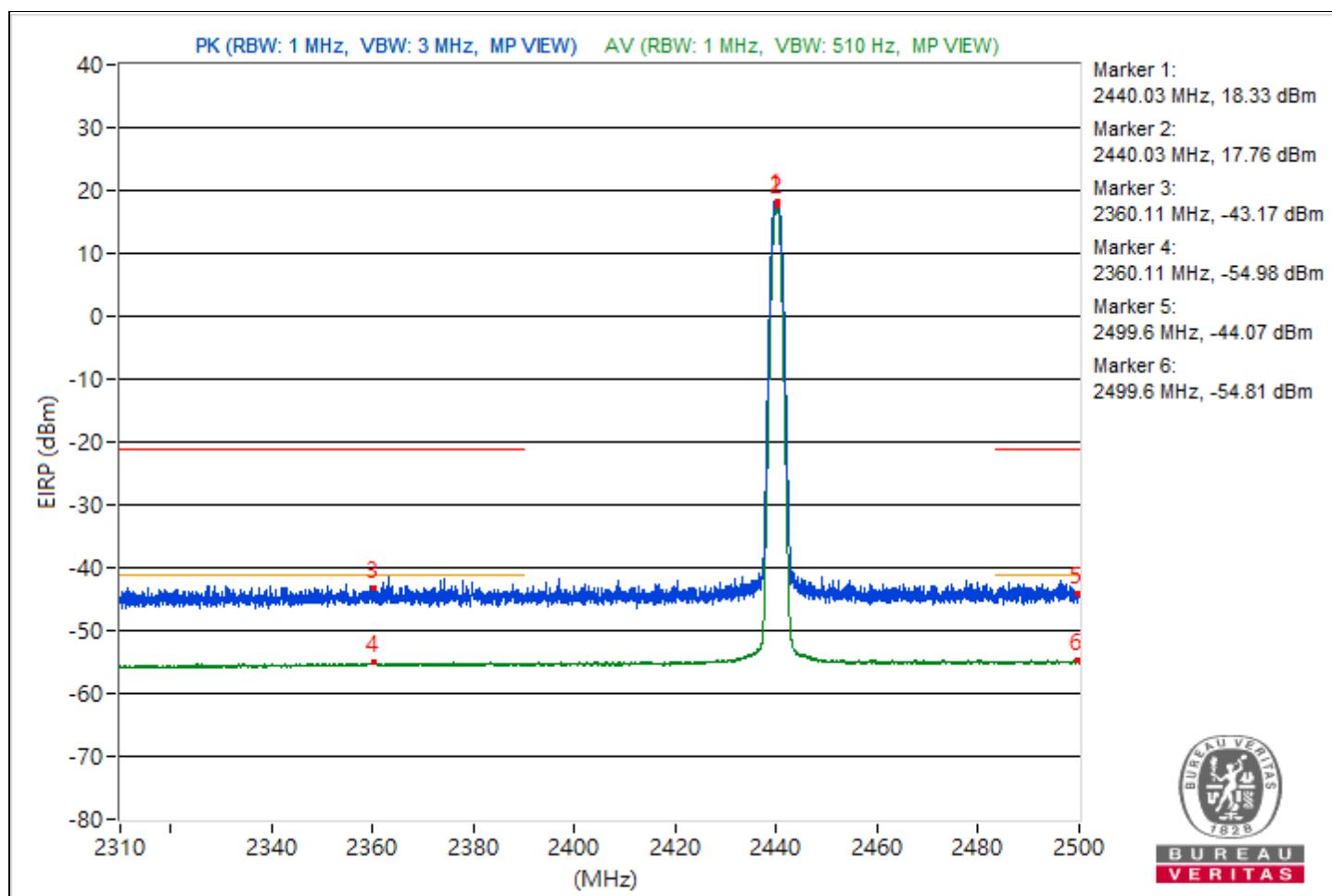


|                 |                    |                          |                  |
|-----------------|--------------------|--------------------------|------------------|
| RF Mode         | BT-LE 125k         | Channel                  | CH 19 : 2440 MHz |
| Frequency Range | 2.31 GHz ~ 2.5 GHz | Environmental Conditions | 20°C, 40% RH     |
| Tested By       | Henry              |                          |                  |

| Conducted Band Edge |                 |                         |                |             |                         |                        |                  |
|---------------------|-----------------|-------------------------|----------------|-------------|-------------------------|------------------------|------------------|
| No.                 | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Raw Value Chain 0 (dBm) | Correction Factor (dB) | EIRP Level (dBm) |
| 1                   | *2440.03        | 113.59 PK               |                |             | 12.14                   | 6.19                   | 18.33            |
| 2                   | *2440.03        | 113.02 AV               |                |             | 11.57                   | 6.19                   | 17.76            |
| 3                   | 2360.11         | 52.09 PK                | 74             | -21.91      | -49.36                  | 6.19                   | -43.17           |
| 4                   | 2360.11         | 40.28 AV                | 54             | -13.72      | -61.17                  | 6.19                   | -54.98           |
| 5                   | 2499.6          | 51.19 PK                | 74             | -22.81      | -50.26                  | 6.19                   | -44.07           |
| 6                   | 2499.6          | 40.45 AV                | 54             | -13.55      | -61                     | 6.19                   | -54.81           |

Notes:

1. Margin value = Emission Level - Limit value
2. " \* " : Fundamental frequency, the limit was restricted at the RF Output Power.

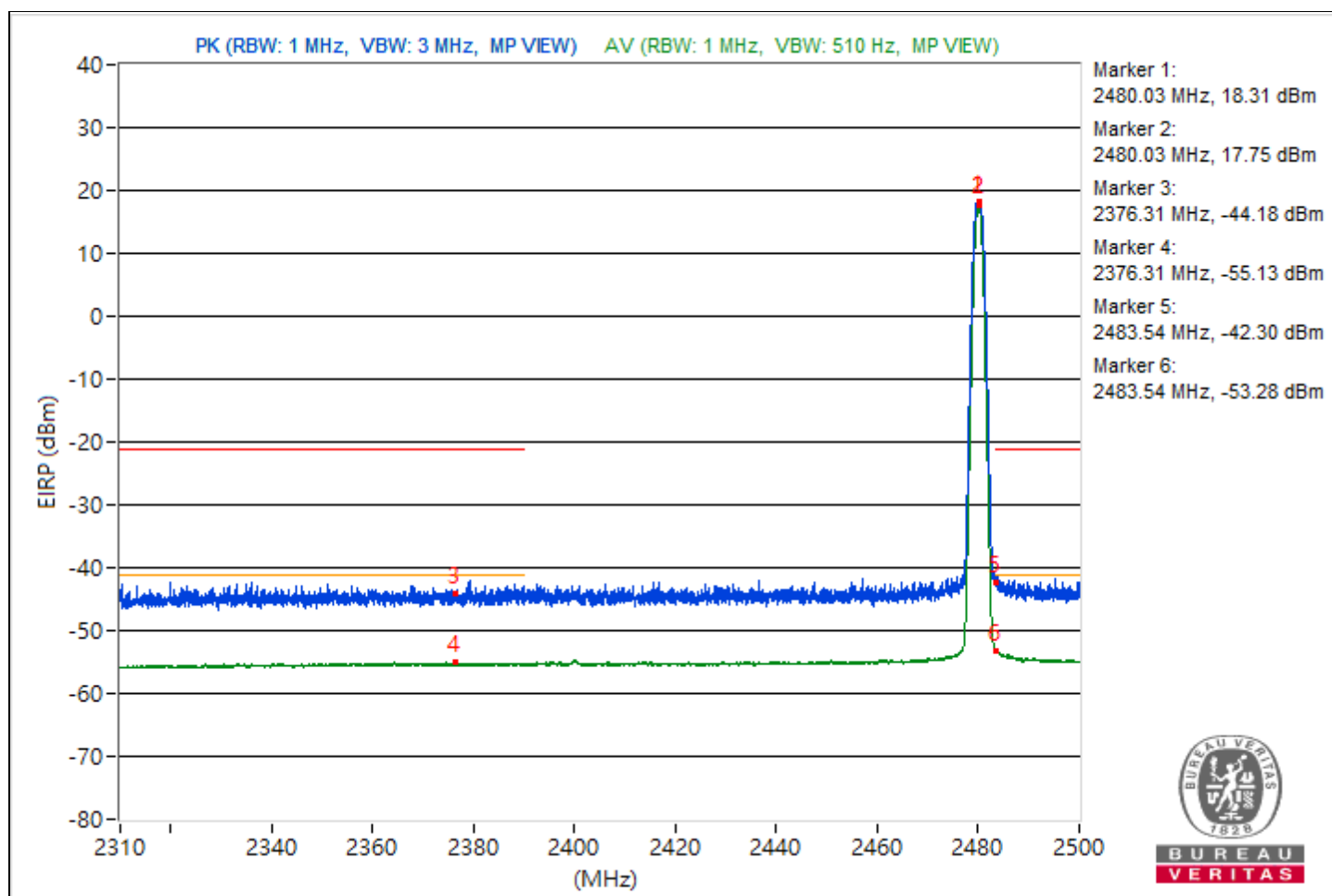


|                 |                    |                          |                  |
|-----------------|--------------------|--------------------------|------------------|
| RF Mode         | BT-LE 125k         | Channel                  | CH 39 : 2480 MHz |
| Frequency Range | 2.31 GHz ~ 2.5 GHz | Environmental Conditions | 20°C, 40% RH     |
| Tested By       | Henry              |                          |                  |

| Conducted Band Edge |                 |                         |                |             |                         |                        |                  |
|---------------------|-----------------|-------------------------|----------------|-------------|-------------------------|------------------------|------------------|
| No.                 | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Raw Value Chain 0 (dBm) | Correction Factor (dB) | EIRP Level (dBm) |
| 1                   | *2480.03        | 113.57 PK               |                |             | 12.12                   | 6.19                   | 18.31            |
| 2                   | *2480.03        | 113.01 AV               |                |             | 11.56                   | 6.19                   | 17.75            |
| 3                   | 2376.31         | 51.08 PK                | 74             | -22.92      | -50.37                  | 6.19                   | -44.18           |
| 4                   | 2376.31         | 40.13 AV                | 54             | -13.87      | -61.32                  | 6.19                   | -55.13           |
| 5                   | 2483.54         | 52.96 PK                | 74             | -21.04      | -48.49                  | 6.19                   | -42.3            |
| 6                   | 2483.54         | 41.98 AV                | 54             | -12.02      | -59.47                  | 6.19                   | -53.28           |

Notes:

1. Margin value = Emission Level - Limit value
2. " \* " : Fundamental frequency, the limit was restricted at the RF Output Power.

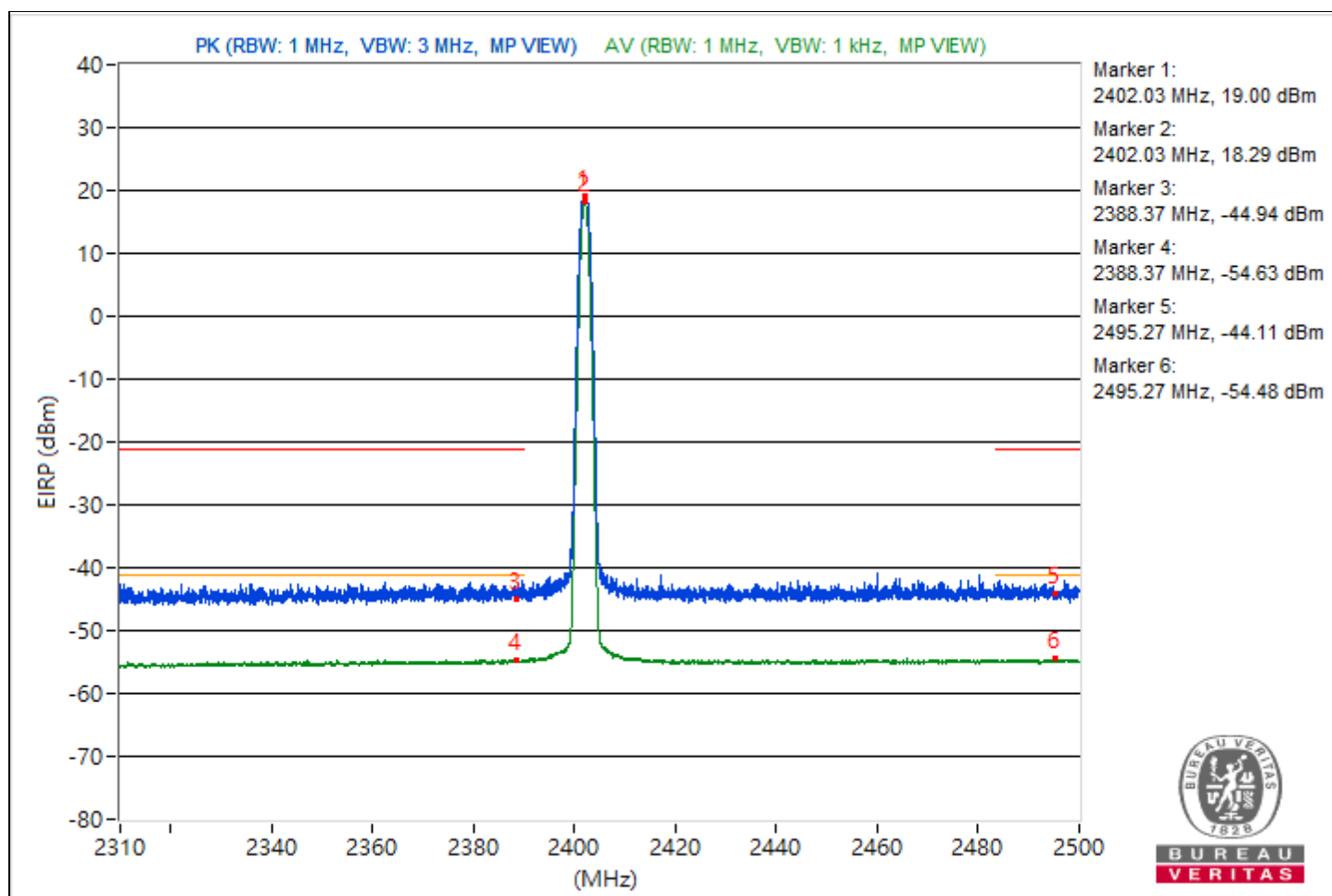


|                 |                    |                          |                 |
|-----------------|--------------------|--------------------------|-----------------|
| RF Mode         | BT-LE 500k         | Channel                  | CH 0 : 2402 MHz |
| Frequency Range | 2.31 GHz ~ 2.5 GHz | Environmental Conditions | 20°C, 40% RH    |
| Tested By       | Henry              |                          |                 |

| Conducted Band Edge |                 |                         |                |             |                         |                        |                  |
|---------------------|-----------------|-------------------------|----------------|-------------|-------------------------|------------------------|------------------|
| No.                 | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Raw Value Chain 0 (dBm) | Correction Factor (dB) | EIRP Level (dBm) |
| 1                   | *2402.03        | 114.26 PK               |                |             | 12.81                   | 6.19                   | 19               |
| 2                   | *2402.03        | 113.55 AV               |                |             | 12.1                    | 6.19                   | 18.29            |
| 3                   | 2388.37         | 50.32 PK                | 74             | -23.68      | -51.13                  | 6.19                   | -44.94           |
| 4                   | 2388.37         | 40.63 AV                | 54             | -13.37      | -60.82                  | 6.19                   | -54.63           |
| 5                   | 2495.27         | 51.15 PK                | 74             | -22.85      | -50.3                   | 6.19                   | -44.11           |
| 6                   | 2495.27         | 40.78 AV                | 54             | -13.22      | -60.67                  | 6.19                   | -54.48           |

Notes:

1. Margin value = Emission Level - Limit value
2. " \* " : Fundamental frequency, the limit was restricted at the RF Output Power.

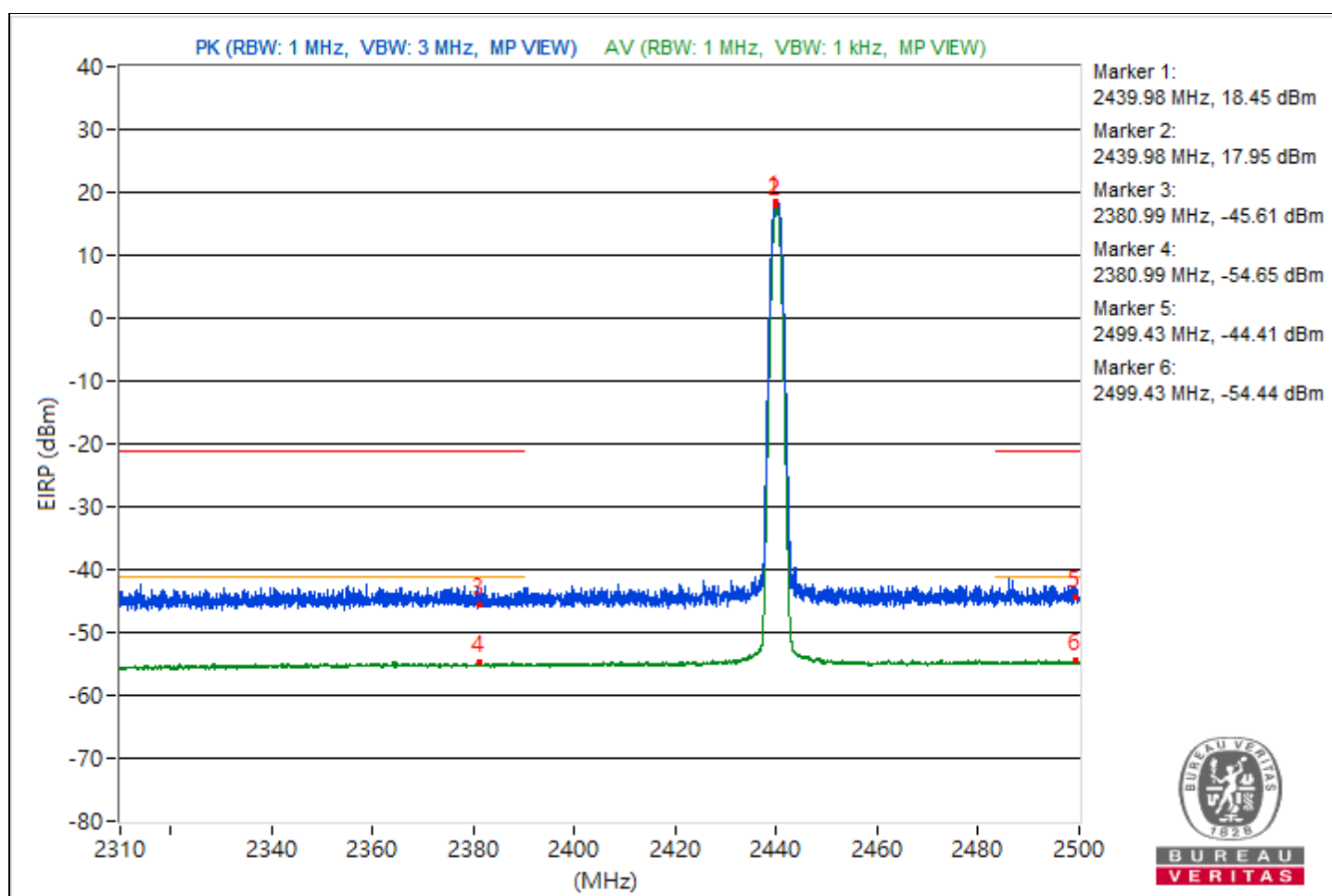


|                 |                    |                          |                  |
|-----------------|--------------------|--------------------------|------------------|
| RF Mode         | BT-LE 500k         | Channel                  | CH 19 : 2440 MHz |
| Frequency Range | 2.31 GHz ~ 2.5 GHz | Environmental Conditions | 20°C, 40% RH     |
| Tested By       | Henry              |                          |                  |

| Conducted Band Edge |                 |                         |                |             |                         |                        |                  |
|---------------------|-----------------|-------------------------|----------------|-------------|-------------------------|------------------------|------------------|
| No.                 | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Raw Value Chain 0 (dBm) | Correction Factor (dB) | EIRP Level (dBm) |
| 1                   | *2439.98        | 113.71 PK               |                |             | 12.26                   | 6.19                   | 18.45            |
| 2                   | *2439.98        | 113.21 AV               |                |             | 11.76                   | 6.19                   | 17.95            |
| 3                   | 2380.99         | 49.65 PK                | 74             | -24.35      | -51.8                   | 6.19                   | -45.61           |
| 4                   | 2380.99         | 40.61 AV                | 54             | -13.39      | -60.84                  | 6.19                   | -54.65           |
| 5                   | 2499.43         | 50.85 PK                | 74             | -23.15      | -50.6                   | 6.19                   | -44.41           |
| 6                   | 2499.43         | 40.82 AV                | 54             | -13.18      | -60.63                  | 6.19                   | -54.44           |

Notes:

1. Margin value = Emission Level - Limit value
2. " \* " : Fundamental frequency, the limit was restricted at the RF Output Power.

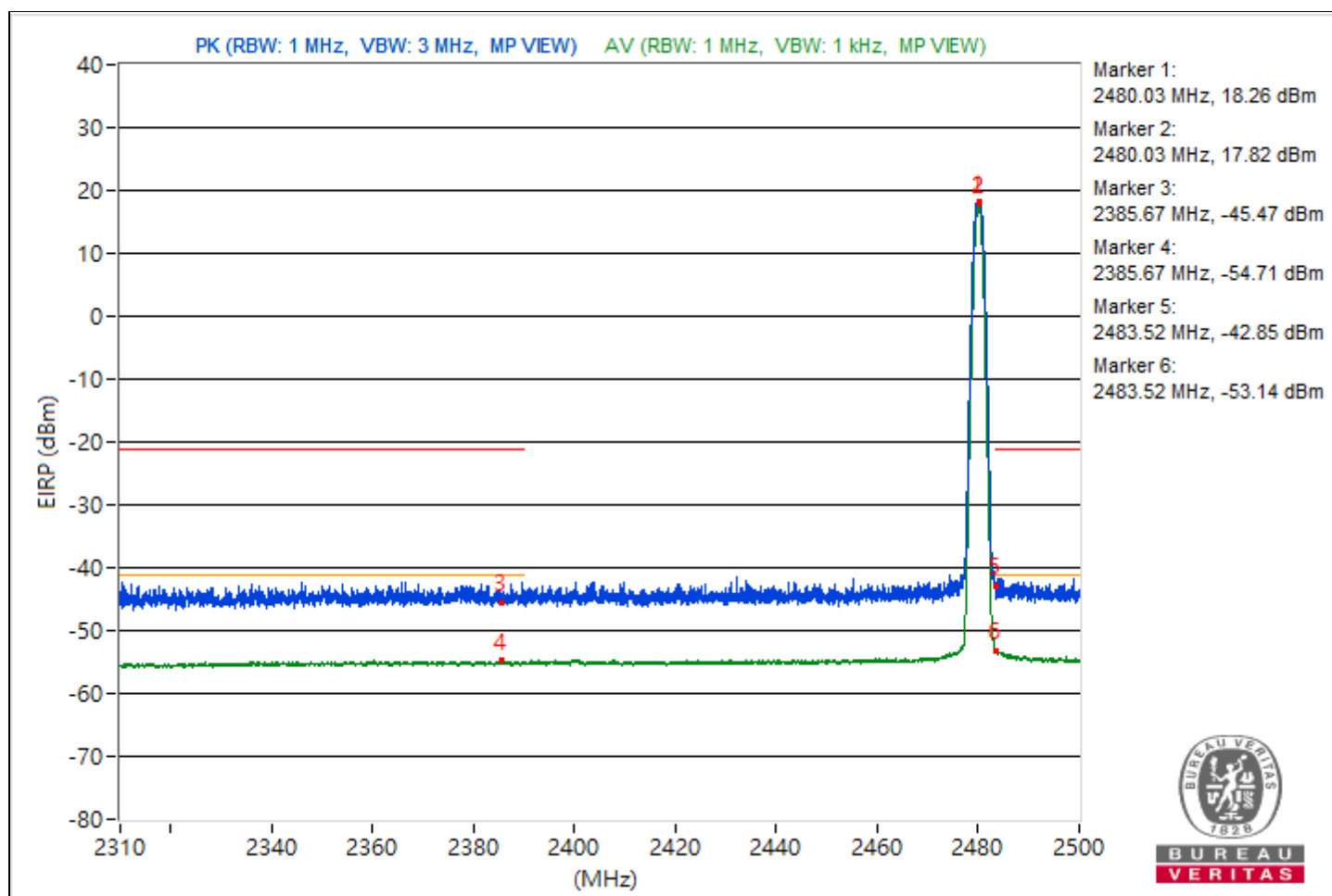


|                 |                    |                          |                  |
|-----------------|--------------------|--------------------------|------------------|
| RF Mode         | BT-LE 500k         | Channel                  | CH 39 : 2480 MHz |
| Frequency Range | 2.31 GHz ~ 2.5 GHz | Environmental Conditions | 20°C, 40% RH     |
| Tested By       | Henry              |                          |                  |

| Conducted Band Edge |                 |                         |                |             |                         |                        |                  |
|---------------------|-----------------|-------------------------|----------------|-------------|-------------------------|------------------------|------------------|
| No.                 | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Raw Value Chain 0 (dBm) | Correction Factor (dB) | EIRP Level (dBm) |
| 1                   | *2480.03        | 113.52 PK               |                |             | 12.07                   | 6.19                   | 18.26            |
| 2                   | *2480.03        | 113.08 AV               |                |             | 11.63                   | 6.19                   | 17.82            |
| 3                   | 2385.67         | 49.79 PK                | 74             | -24.21      | -51.66                  | 6.19                   | -45.47           |
| 4                   | 2385.67         | 40.55 AV                | 54             | -13.45      | -60.9                   | 6.19                   | -54.71           |
| 5                   | 2483.52         | 52.41 PK                | 74             | -21.59      | -49.04                  | 6.19                   | -42.85           |
| 6                   | 2483.52         | 42.12 AV                | 54             | -11.88      | -59.33                  | 6.19                   | -53.14           |

Notes:

1. Margin value = Emission Level - Limit value
2. " \* " : Fundamental frequency, the limit was restricted at the RF Output Power.

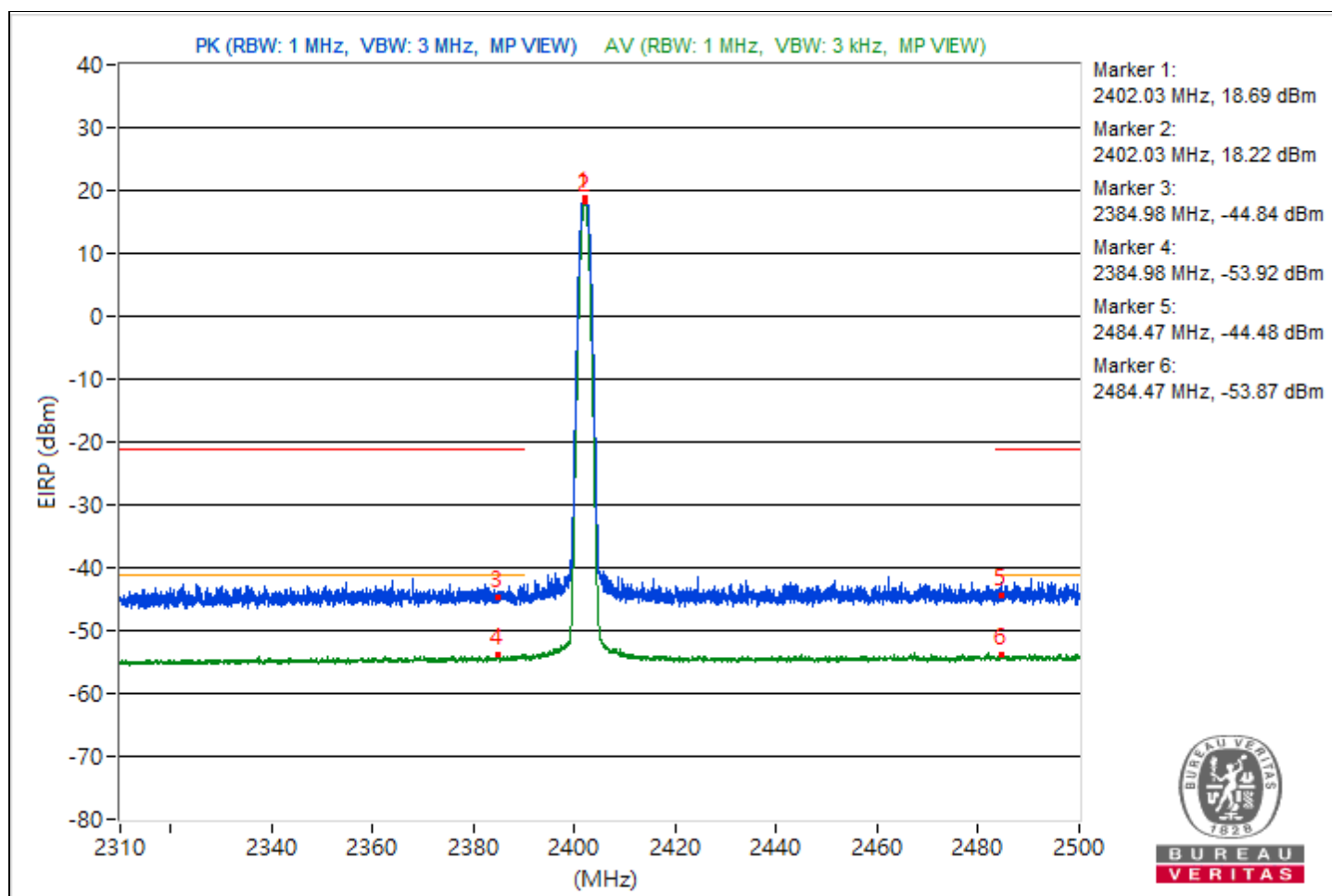


|                 |                    |                          |                 |
|-----------------|--------------------|--------------------------|-----------------|
| RF Mode         | BT-LE 1M           | Channel                  | CH 0 : 2402 MHz |
| Frequency Range | 2.31 GHz ~ 2.5 GHz | Environmental Conditions | 20°C, 40% RH    |
| Tested By       | Henry              |                          |                 |

| Conducted Band Edge |                 |                         |                |             |                         |                        |                  |
|---------------------|-----------------|-------------------------|----------------|-------------|-------------------------|------------------------|------------------|
| No.                 | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Raw Value Chain 0 (dBm) | Correction Factor (dB) | EIRP Level (dBm) |
| 1                   | *2402.03        | 113.95 PK               |                |             | 12.5                    | 6.19                   | 18.69            |
| 2                   | *2402.03        | 113.48 AV               |                |             | 12.03                   | 6.19                   | 18.22            |
| 3                   | 2384.98         | 50.42 PK                | 74             | -23.58      | -51.03                  | 6.19                   | -44.84           |
| 4                   | 2384.98         | 41.34 AV                | 54             | -12.66      | -60.11                  | 6.19                   | -53.92           |
| 5                   | 2484.47         | 50.78 PK                | 74             | -23.22      | -50.67                  | 6.19                   | -44.48           |
| 6                   | 2484.47         | 41.39 AV                | 54             | -12.61      | -60.06                  | 6.19                   | -53.87           |

Notes:

1. Margin value = Emission Level - Limit value
2. " \* " : Fundamental frequency, the limit was restricted at the RF Output Power.

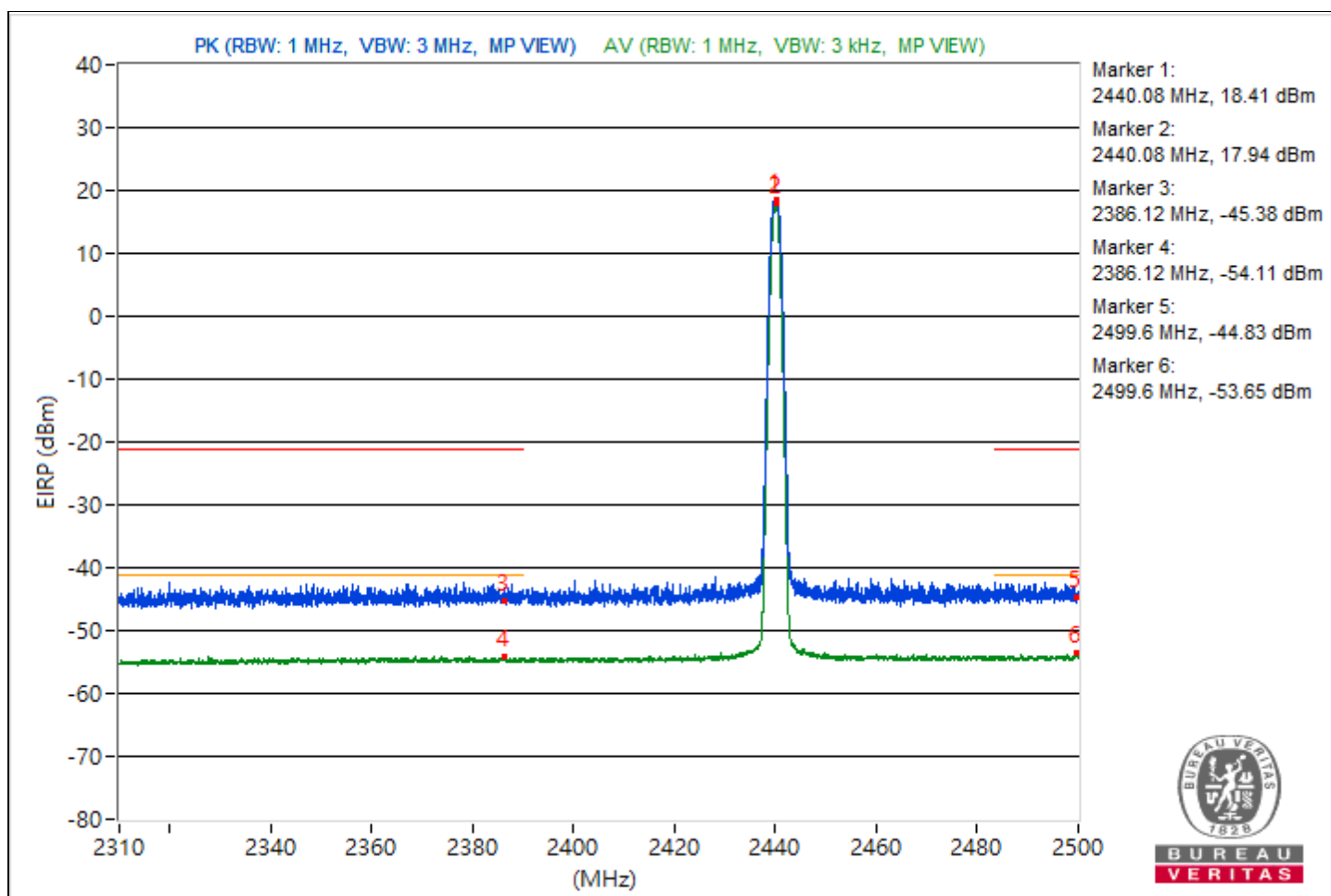


|                 |                    |                          |                  |
|-----------------|--------------------|--------------------------|------------------|
| RF Mode         | BT-LE 1M           | Channel                  | CH 19 : 2440 MHz |
| Frequency Range | 2.31 GHz ~ 2.5 GHz | Environmental Conditions | 20°C, 40% RH     |
| Tested By       | Henry              |                          |                  |

| Conducted Band Edge |                 |                         |                |             |                         |                        |                  |
|---------------------|-----------------|-------------------------|----------------|-------------|-------------------------|------------------------|------------------|
| No.                 | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Raw Value Chain 0 (dBm) | Correction Factor (dB) | EIRP Level (dBm) |
| 1                   | *2440.08        | 113.67 PK               |                |             | 12.22                   | 6.19                   | 18.41            |
| 2                   | *2440.08        | 113.2 AV                |                |             | 11.75                   | 6.19                   | 17.94            |
| 3                   | 2386.12         | 49.88 PK                | 74             | -24.12      | -51.57                  | 6.19                   | -45.38           |
| 4                   | 2386.12         | 41.15 AV                | 54             | -12.85      | -60.3                   | 6.19                   | -54.11           |
| 5                   | 2499.6          | 50.43 PK                | 74             | -23.57      | -51.02                  | 6.19                   | -44.83           |
| 6                   | 2499.6          | 41.61 AV                | 54             | -12.39      | -59.84                  | 6.19                   | -53.65           |

Notes:

1. Margin value = Emission Level - Limit value
2. " \* " : Fundamental frequency, the limit was restricted at the RF Output Power.

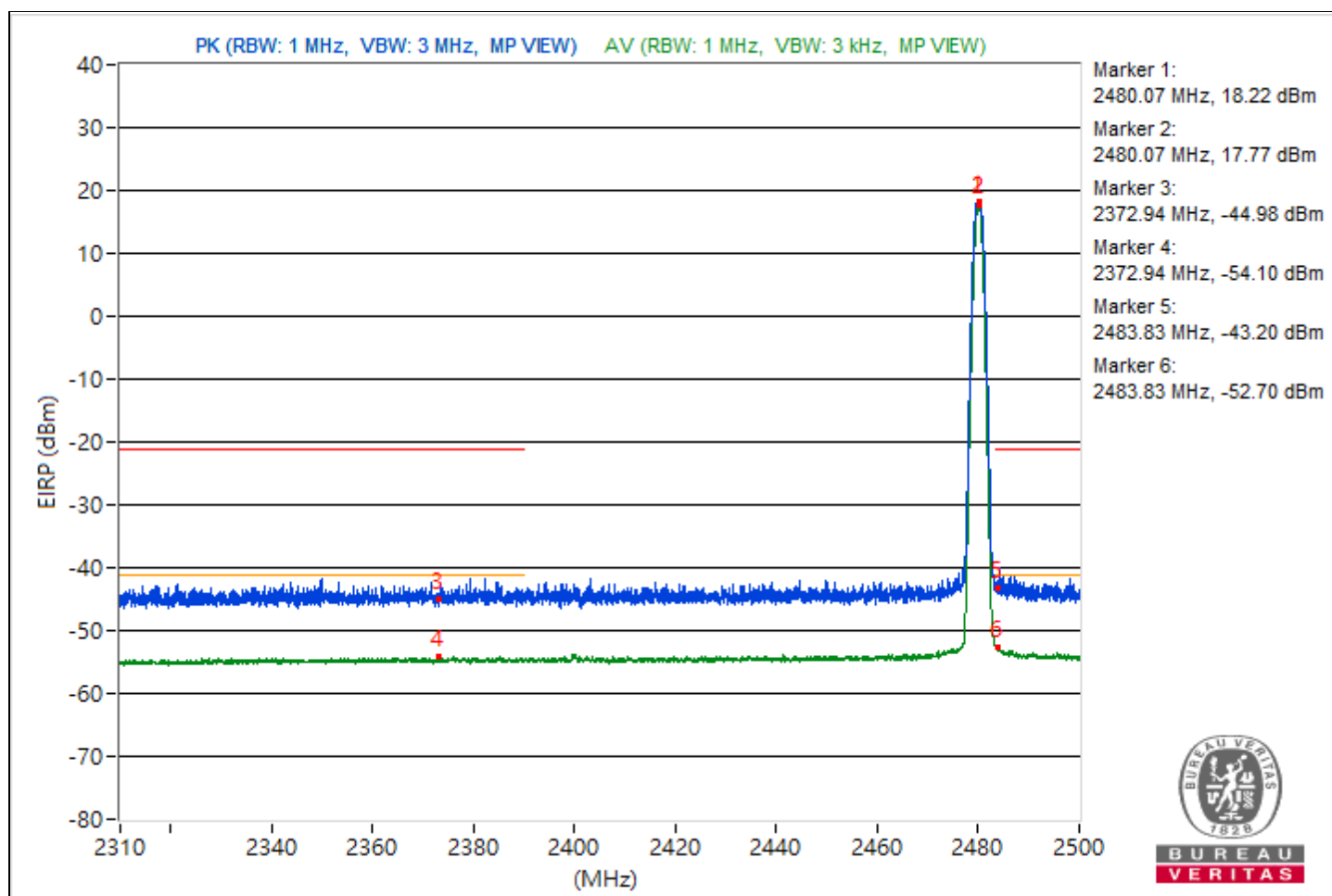


|                 |                    |                          |                  |
|-----------------|--------------------|--------------------------|------------------|
| RF Mode         | BT-LE 1M           | Channel                  | CH 39 : 2480 MHz |
| Frequency Range | 2.31 GHz ~ 2.5 GHz | Environmental Conditions | 20°C, 40% RH     |
| Tested By       | Henry              |                          |                  |

| Conducted Band Edge |                 |                         |                |             |                         |                        |                  |
|---------------------|-----------------|-------------------------|----------------|-------------|-------------------------|------------------------|------------------|
| No.                 | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Raw Value Chain 0 (dBm) | Correction Factor (dB) | EIRP Level (dBm) |
| 1                   | *2480.07        | 113.48 PK               |                |             | 12.03                   | 6.19                   | 18.22            |
| 2                   | *2480.07        | 113.03 AV               |                |             | 11.58                   | 6.19                   | 17.77            |
| 3                   | 2372.94         | 50.28 PK                | 74             | -23.72      | -51.17                  | 6.19                   | -44.98           |
| 4                   | 2372.94         | 41.16 AV                | 54             | -12.84      | -60.29                  | 6.19                   | -54.1            |
| 5                   | 2483.83         | 52.06 PK                | 74             | -21.94      | -49.39                  | 6.19                   | -43.2            |
| 6                   | 2483.83         | 42.56 AV                | 54             | -11.44      | -58.89                  | 6.19                   | -52.7            |

Notes:

1. Margin value = Emission Level - Limit value
2. " \* " : Fundamental frequency, the limit was restricted at the RF Output Power.

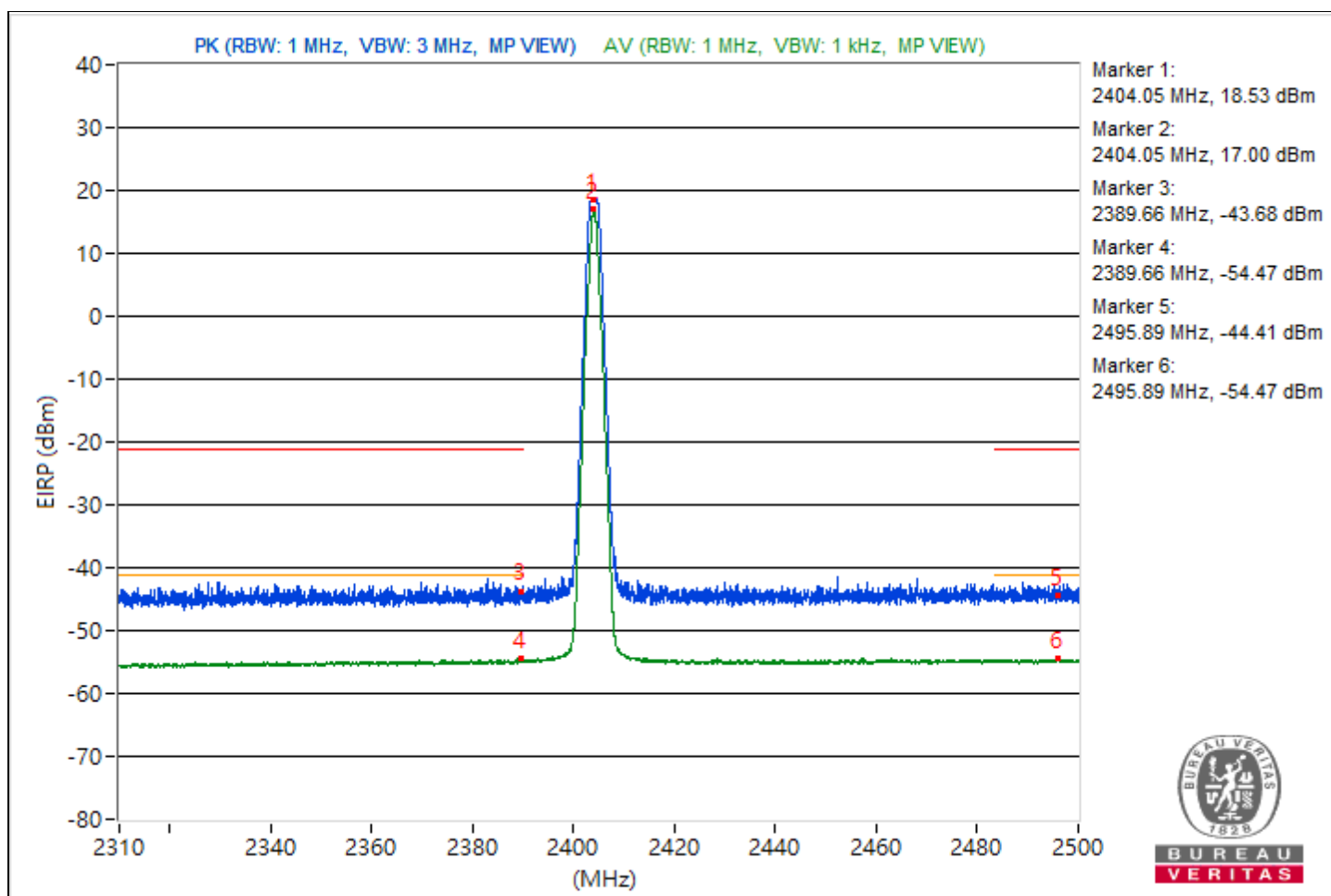


|                 |                    |                          |                 |
|-----------------|--------------------|--------------------------|-----------------|
| RF Mode         | BT-LE 2M           | Channel                  | CH 1 : 2404 MHz |
| Frequency Range | 2.31 GHz ~ 2.5 GHz | Environmental Conditions | 20°C, 40% RH    |
| Tested By       | Henry              |                          |                 |

| Conducted Band Edge |                 |                         |                |             |                         |                        |                  |
|---------------------|-----------------|-------------------------|----------------|-------------|-------------------------|------------------------|------------------|
| No.                 | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Raw Value Chain 0 (dBm) | Correction Factor (dB) | EIRP Level (dBm) |
| 1                   | *2404.05        | 113.79 PK               |                |             | 12.34                   | 6.19                   | 18.53            |
| 2                   | *2404.05        | 112.26 AV               |                |             | 10.81                   | 6.19                   | 17               |
| 3                   | 2389.66         | 51.58 PK                | 74             | -22.42      | -49.87                  | 6.19                   | -43.68           |
| 4                   | 2389.66         | 40.79 AV                | 54             | -13.21      | -60.66                  | 6.19                   | -54.47           |
| 5                   | 2495.89         | 50.85 PK                | 74             | -23.15      | -50.6                   | 6.19                   | -44.41           |
| 6                   | 2495.89         | 40.79 AV                | 54             | -13.21      | -60.66                  | 6.19                   | -54.47           |

Notes:

1. Margin value = Emission Level - Limit value
2. " \* " : Fundamental frequency, the limit was restricted at the RF Output Power.

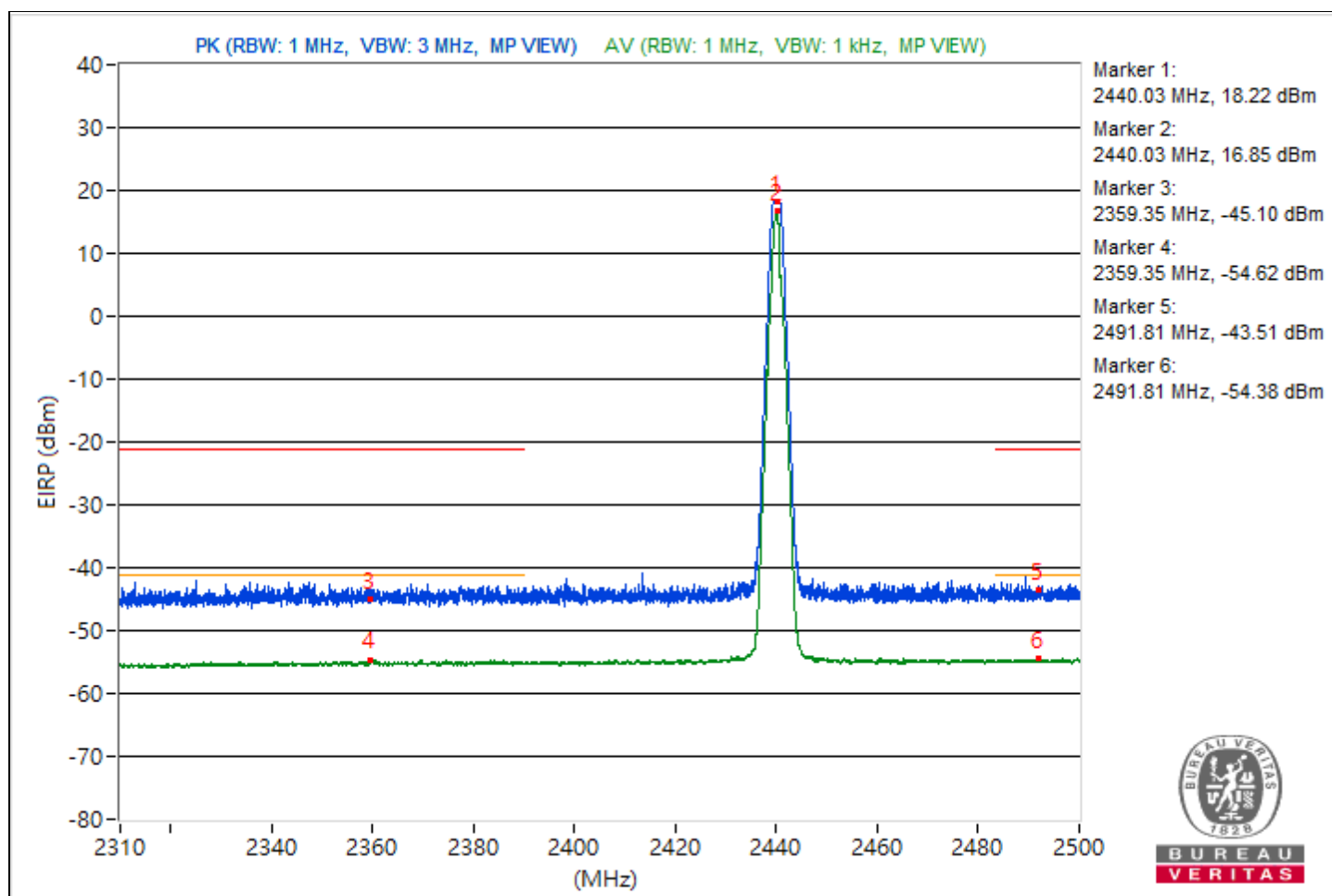


|                 |                    |                          |                  |
|-----------------|--------------------|--------------------------|------------------|
| RF Mode         | BT-LE 2M           | Channel                  | CH 19 : 2440 MHz |
| Frequency Range | 2.31 GHz ~ 2.5 GHz | Environmental Conditions | 20°C, 40% RH     |
| Tested By       | Henry              |                          |                  |

| Conducted Band Edge |                 |                         |                |             |                         |                        |                  |
|---------------------|-----------------|-------------------------|----------------|-------------|-------------------------|------------------------|------------------|
| No.                 | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Raw Value Chain 0 (dBm) | Correction Factor (dB) | EIRP Level (dBm) |
| 1                   | *2440.03        | 113.48 PK               |                |             | 12.03                   | 6.19                   | 18.22            |
| 2                   | *2440.03        | 112.11 AV               |                |             | 10.66                   | 6.19                   | 16.85            |
| 3                   | 2359.35         | 50.16 PK                | 74             | -23.84      | -51.29                  | 6.19                   | -45.1            |
| 4                   | 2359.35         | 40.64 AV                | 54             | -13.36      | -60.81                  | 6.19                   | -54.62           |
| 5                   | 2491.81         | 51.75 PK                | 74             | -22.25      | -49.7                   | 6.19                   | -43.51           |
| 6                   | 2491.81         | 40.88 AV                | 54             | -13.12      | -60.57                  | 6.19                   | -54.38           |

Notes:

1. Margin value = Emission Level - Limit value
2. " \* " : Fundamental frequency, the limit was restricted at the RF Output Power.

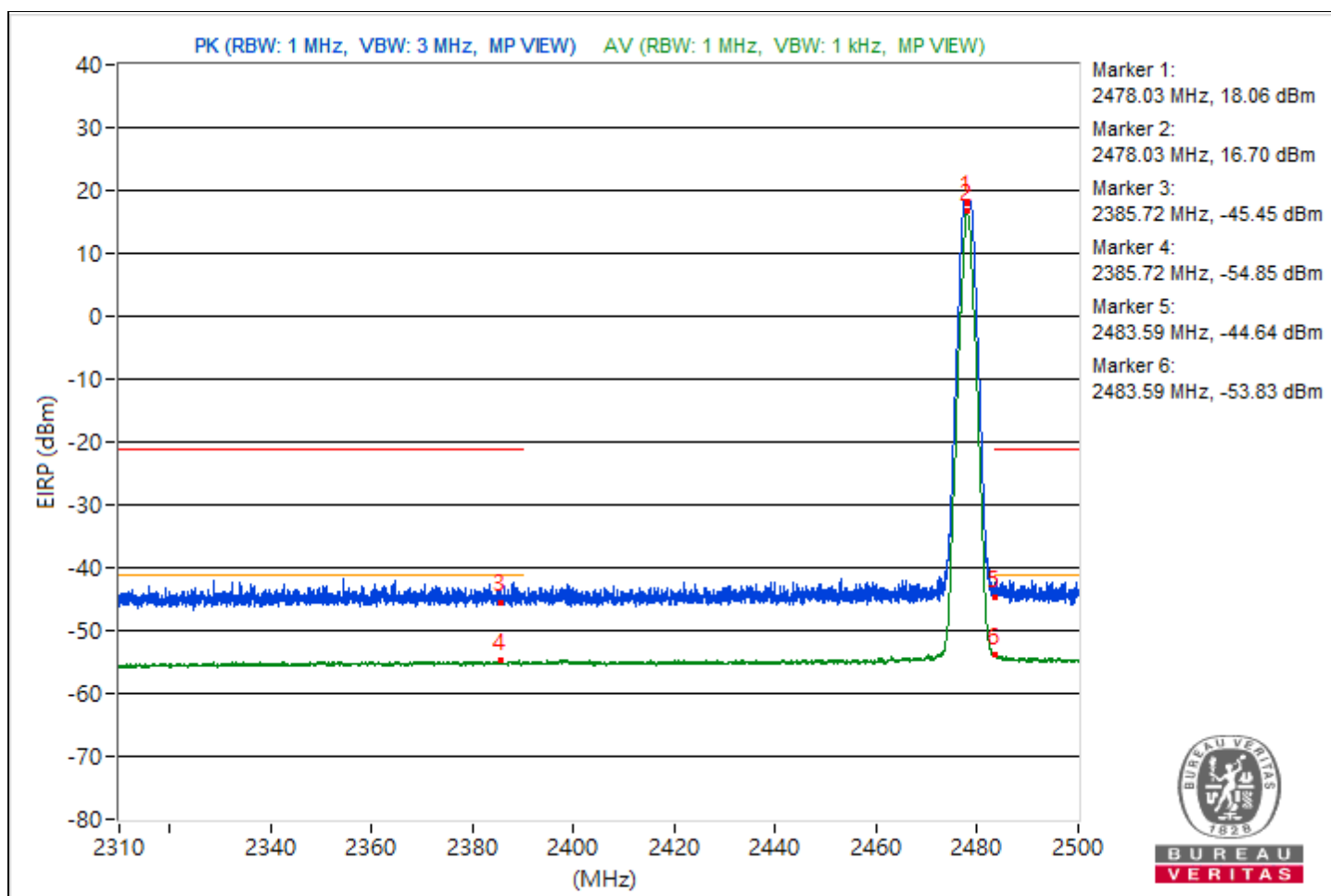


|                 |                    |                          |                  |
|-----------------|--------------------|--------------------------|------------------|
| RF Mode         | BT-LE 2M           | Channel                  | CH 38 : 2478 MHz |
| Frequency Range | 2.31 GHz ~ 2.5 GHz | Environmental Conditions | 20°C, 40% RH     |
| Tested By       | Henry              |                          |                  |

| Conducted Band Edge |                 |                         |                |             |                         |                        |                  |
|---------------------|-----------------|-------------------------|----------------|-------------|-------------------------|------------------------|------------------|
| No.                 | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Raw Value Chain 0 (dBm) | Correction Factor (dB) | EIRP Level (dBm) |
| 1                   | *2478.03        | 113.32 PK               |                |             | 11.87                   | 6.19                   | 18.06            |
| 2                   | *2478.03        | 111.96 AV               |                |             | 10.51                   | 6.19                   | 16.7             |
| 3                   | 2385.72         | 49.81 PK                | 74             | -24.19      | -51.64                  | 6.19                   | -45.45           |
| 4                   | 2385.72         | 40.41 AV                | 54             | -13.59      | -61.04                  | 6.19                   | -54.85           |
| 5                   | 2483.59         | 50.62 PK                | 74             | -23.38      | -50.83                  | 6.19                   | -44.64           |
| 6                   | 2483.59         | 41.43 AV                | 54             | -12.57      | -60.02                  | 6.19                   | -53.83           |

Notes:

1. Margin value = Emission Level - Limit value
2. " \* " : Fundamental frequency, the limit was restricted at the RF Output Power.



## Mode B

|                             |                |                                          |                                                                        |
|-----------------------------|----------------|------------------------------------------|------------------------------------------------------------------------|
| <b>RF Mode</b>              | BT-LE 125k     | <b>Channel</b>                           | CH 0 : 2402 MHz                                                        |
| <b>Frequency Range</b>      | 1 GHz ~ 25 GHz | <b>Detector Function &amp; Bandwidth</b> | PK: RB=1 MHz, VB=3 MHz, DET=Peak<br>AV: RB=1 MHz, VB=510 kHz, DET=Peak |
| <b>Input Power (System)</b> | 120 Vac, 60 Hz | <b>Environmental Conditions</b>          | 23 °C, 73 % RH                                                         |
| <b>Tested By</b>            | Willy Lin      |                                          |                                                                        |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |                         |                |             |                    |                      |                  |                          |
|------------------------------------------------------|-----------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 4804.00         | 41.8 PK                 | 74.0           | -32.2       | 1.52 H             | 233                  | 40.1             | 1.7                      |
| 2                                                    | 4804.00         | 30.8 AV                 | 54.0           | -23.2       | 1.52 H             | 233                  | 29.1             | 1.7                      |
| Antenna Polarity & Test Distance : Vertical at 3 m   |                 |                         |                |             |                    |                      |                  |                          |
| No                                                   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 4804.00         | 40.3 PK                 | 74.0           | -33.7       | 2.37 V             | 77                   | 38.6             | 1.7                      |
| 2                                                    | 4804.00         | 29.6 AV                 | 54.0           | -24.4       | 2.37 V             | 77                   | 27.9             | 1.7                      |

### Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.

|                             |                |                                          |                                                                        |
|-----------------------------|----------------|------------------------------------------|------------------------------------------------------------------------|
| <b>RF Mode</b>              | BT-LE 125k     | <b>Channel</b>                           | CH 19 : 2440 MHz                                                       |
| <b>Frequency Range</b>      | 1 GHz ~ 25 GHz | <b>Detector Function &amp; Bandwidth</b> | PK: RB=1 MHz, VB=3 MHz, DET=Peak<br>AV: RB=1 MHz, VB=510 kHz, DET=Peak |
| <b>Input Power (System)</b> | 120 Vac, 60 Hz | <b>Environmental Conditions</b>          | 23 °C, 73 % RH                                                         |
| <b>Tested By</b>            | Willy Lin      |                                          |                                                                        |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |                         |                |             |                    |                      |                  |                          |
|------------------------------------------------------|-----------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 4880.00         | 42.0 PK                 | 74.0           | -32.0       | 1.47 H             | 238                  | 40.3             | 1.7                      |
| 2                                                    | 4880.00         | 31.0 AV                 | 54.0           | -23.0       | 1.47 H             | 238                  | 29.3             | 1.7                      |
| 3                                                    | 7320.00         | 46.3 PK                 | 74.0           | -27.7       | 1.13 H             | 155                  | 39.5             | 6.8                      |
| 4                                                    | 7320.00         | 35.4 AV                 | 54.0           | -18.6       | 1.13 H             | 155                  | 28.6             | 6.8                      |
| Antenna Polarity & Test Distance : Vertical at 3 m   |                 |                         |                |             |                    |                      |                  |                          |
| No                                                   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 4880.00         | 40.7 PK                 | 74.0           | -33.3       | 2.30 V             | 58                   | 39.0             | 1.7                      |
| 2                                                    | 4880.00         | 29.9 AV                 | 54.0           | -24.1       | 2.30 V             | 58                   | 28.2             | 1.7                      |
| 3                                                    | 7320.00         | 45.7 PK                 | 74.0           | -28.3       | 3.61 V             | 0                    | 38.9             | 6.8                      |
| 4                                                    | 7320.00         | 36.9 AV                 | 54.0           | -17.1       | 3.61 V             | 0                    | 30.1             | 6.8                      |

**Remarks:**

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.

|                             |                |                                          |                                                                        |
|-----------------------------|----------------|------------------------------------------|------------------------------------------------------------------------|
| <b>RF Mode</b>              | BT-LE 125k     | <b>Channel</b>                           | CH 39 : 2480 MHz                                                       |
| <b>Frequency Range</b>      | 1 GHz ~ 25 GHz | <b>Detector Function &amp; Bandwidth</b> | PK: RB=1 MHz, VB=3 MHz, DET=Peak<br>AV: RB=1 MHz, VB=510 kHz, DET=Peak |
| <b>Input Power (System)</b> | 120 Vac, 60 Hz | <b>Environmental Conditions</b>          | 23 °C, 73 % RH                                                         |
| <b>Tested By</b>            | Willy Lin      |                                          |                                                                        |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |                         |                |             |                    |                      |                  |                          |
|------------------------------------------------------|-----------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 4960.00         | 42.2 PK                 | 74.0           | -31.8       | 1.51 H             | 227                  | 40.3             | 1.9                      |
| 2                                                    | 4960.00         | 31.2 AV                 | 54.0           | -22.8       | 1.51 H             | 227                  | 29.3             | 1.9                      |
| 3                                                    | 7440.00         | 46.4 PK                 | 74.0           | -27.6       | 1.10 H             | 160                  | 39.0             | 7.4                      |
| 4                                                    | 7440.00         | 35.5 AV                 | 54.0           | -18.5       | 1.10 H             | 160                  | 28.1             | 7.4                      |
| Antenna Polarity & Test Distance : Vertical at 3 m   |                 |                         |                |             |                    |                      |                  |                          |
| No                                                   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 4960.00         | 41.5 PK                 | 74.0           | -32.5       | 2.34 V             | 61                   | 39.6             | 1.9                      |
| 2                                                    | 4960.00         | 30.5 AV                 | 54.0           | -23.5       | 2.34 V             | 61                   | 28.6             | 1.9                      |
| 3                                                    | 7440.00         | 45.4 PK                 | 74.0           | -28.6       | 3.70 V             | 0                    | 38.0             | 7.4                      |
| 4                                                    | 7440.00         | 36.6 AV                 | 54.0           | -17.4       | 3.70 V             | 0                    | 29.2             | 7.4                      |

**Remarks:**

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.

|                             |                |                                          |                                                                      |
|-----------------------------|----------------|------------------------------------------|----------------------------------------------------------------------|
| <b>RF Mode</b>              | BT-LE 500k     | <b>Channel</b>                           | CH 0 : 2402 MHz                                                      |
| <b>Frequency Range</b>      | 1 GHz ~ 25 GHz | <b>Detector Function &amp; Bandwidth</b> | PK: RB=1 MHz, VB=3 MHz, DET=Peak<br>AV: RB=1 MHz, VB=1 kHz, DET=Peak |
| <b>Input Power (System)</b> | 120 Vac, 60 Hz | <b>Environmental Conditions</b>          | 23 °C, 73 % RH                                                       |
| <b>Tested By</b>            | Willy Lin      |                                          |                                                                      |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |                         |                |             |                    |                      |                  |                          |
|------------------------------------------------------|-----------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 4804.00         | 42.1 PK                 | 74.0           | -31.9       | 1.57 H             | 216                  | 40.4             | 1.7                      |
| 2                                                    | 4804.00         | 30.9 AV                 | 54.0           | -23.1       | 1.57 H             | 216                  | 29.2             | 1.7                      |
| Antenna Polarity & Test Distance : Vertical at 3 m   |                 |                         |                |             |                    |                      |                  |                          |
| No                                                   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 4804.00         | 40.7 PK                 | 74.0           | -33.3       | 2.35 V             | 75                   | 39.0             | 1.7                      |
| 2                                                    | 4804.00         | 29.9 AV                 | 54.0           | -24.1       | 2.35 V             | 75                   | 28.2             | 1.7                      |

**Remarks:**

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.

|                             |                |                                          |                                                                      |
|-----------------------------|----------------|------------------------------------------|----------------------------------------------------------------------|
| <b>RF Mode</b>              | BT-LE 500k     | <b>Channel</b>                           | CH 19 : 2440 MHz                                                     |
| <b>Frequency Range</b>      | 1 GHz ~ 25 GHz | <b>Detector Function &amp; Bandwidth</b> | PK: RB=1 MHz, VB=3 MHz, DET=Peak<br>AV: RB=1 MHz, VB=1 kHz, DET=Peak |
| <b>Input Power (System)</b> | 120 Vac, 60 Hz | <b>Environmental Conditions</b>          | 23 °C, 73 % RH                                                       |
| <b>Tested By</b>            | Willy Lin      |                                          |                                                                      |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |                         |                |             |                    |                      |                  |                          |
|------------------------------------------------------|-----------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 4880.00         | 42.7 PK                 | 74.0           | -31.3       | 1.53 H             | 229                  | 41.0             | 1.7                      |
| 2                                                    | 4880.00         | 31.5 AV                 | 54.0           | -22.5       | 1.53 H             | 229                  | 29.8             | 1.7                      |
| 3                                                    | 7320.00         | 46.0 PK                 | 74.0           | -28.0       | 1.11 H             | 170                  | 39.2             | 6.8                      |
| 4                                                    | 7320.00         | 35.1 AV                 | 54.0           | -18.9       | 1.11 H             | 170                  | 28.3             | 6.8                      |
| Antenna Polarity & Test Distance : Vertical at 3 m   |                 |                         |                |             |                    |                      |                  |                          |
| No                                                   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 4880.00         | 41.3 PK                 | 74.0           | -32.7       | 2.27 V             | 73                   | 39.6             | 1.7                      |
| 2                                                    | 4880.00         | 30.2 AV                 | 54.0           | -23.8       | 2.27 V             | 73                   | 28.5             | 1.7                      |
| 3                                                    | 7320.00         | 45.5 PK                 | 74.0           | -28.5       | 3.65 V             | 12                   | 38.7             | 6.8                      |
| 4                                                    | 7320.00         | 36.2 AV                 | 54.0           | -17.8       | 3.65 V             | 12                   | 29.4             | 6.8                      |

**Remarks:**

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.

|                             |                |                                          |                                                                      |
|-----------------------------|----------------|------------------------------------------|----------------------------------------------------------------------|
| <b>RF Mode</b>              | BT-LE 500k     | <b>Channel</b>                           | CH 39 : 2480 MHz                                                     |
| <b>Frequency Range</b>      | 1 GHz ~ 25 GHz | <b>Detector Function &amp; Bandwidth</b> | PK: RB=1 MHz, VB=3 MHz, DET=Peak<br>AV: RB=1 MHz, VB=1 kHz, DET=Peak |
| <b>Input Power (System)</b> | 120 Vac, 60 Hz | <b>Environmental Conditions</b>          | 23 °C, 73 % RH                                                       |
| <b>Tested By</b>            | Willy Lin      |                                          |                                                                      |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |                         |                |             |                    |                      |                  |                          |
|------------------------------------------------------|-----------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 4960.00         | 42.1 PK                 | 74.0           | -31.9       | 1.49 H             | 235                  | 40.2             | 1.9                      |
| 2                                                    | 4960.00         | 30.9 AV                 | 54.0           | -23.1       | 1.49 H             | 235                  | 29.0             | 1.9                      |
| 3                                                    | 7440.00         | 46.4 PK                 | 74.0           | -27.6       | 1.09 H             | 163                  | 39.0             | 7.4                      |
| 4                                                    | 7440.00         | 35.2 AV                 | 54.0           | -18.8       | 1.09 H             | 163                  | 27.8             | 7.4                      |
| Antenna Polarity & Test Distance : Vertical at 3 m   |                 |                         |                |             |                    |                      |                  |                          |
| No                                                   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 4960.00         | 40.6 PK                 | 74.0           | -33.4       | 2.36 V             | 77                   | 38.7             | 1.9                      |
| 2                                                    | 4960.00         | 30.0 AV                 | 54.0           | -24.0       | 2.36 V             | 77                   | 28.1             | 1.9                      |
| 3                                                    | 7440.00         | 46.0 PK                 | 74.0           | -28.0       | 3.68 V             | 17                   | 38.6             | 7.4                      |
| 4                                                    | 7440.00         | 37.0 AV                 | 54.0           | -17.0       | 3.68 V             | 17                   | 29.6             | 7.4                      |

**Remarks:**

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.

|                             |                |                                          |                                                                      |
|-----------------------------|----------------|------------------------------------------|----------------------------------------------------------------------|
| <b>RF Mode</b>              | BT-LE 1M       | <b>Channel</b>                           | CH 0 : 2402 MHz                                                      |
| <b>Frequency Range</b>      | 1 GHz ~ 25 GHz | <b>Detector Function &amp; Bandwidth</b> | PK: RB=1 MHz, VB=3 MHz, DET=Peak<br>AV: RB=1 MHz, VB=3 kHz, DET=Peak |
| <b>Input Power (System)</b> | 120 Vac, 60 Hz | <b>Environmental Conditions</b>          | 23 °C, 73 % RH                                                       |
| <b>Tested By</b>            | Willy Lin      |                                          |                                                                      |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |                         |                |             |                    |                      |                  |                          |
|------------------------------------------------------|-----------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 4804.00         | 41.9 PK                 | 74.0           | -32.1       | 1.47 H             | 234                  | 40.2             | 1.7                      |
| 2                                                    | 4804.00         | 31.2 AV                 | 54.0           | -22.8       | 1.47 H             | 234                  | 29.5             | 1.7                      |
| Antenna Polarity & Test Distance : Vertical at 3 m   |                 |                         |                |             |                    |                      |                  |                          |
| No                                                   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 4804.00         | 40.2 PK                 | 74.0           | -33.8       | 2.42 V             | 72                   | 38.5             | 1.7                      |
| 2                                                    | 4804.00         | 29.8 AV                 | 54.0           | -24.2       | 2.42 V             | 72                   | 28.1             | 1.7                      |

**Remarks:**

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.

|                             |                |                                          |                                                                      |
|-----------------------------|----------------|------------------------------------------|----------------------------------------------------------------------|
| <b>RF Mode</b>              | BT-LE 1M       | <b>Channel</b>                           | CH 19 : 2440 MHz                                                     |
| <b>Frequency Range</b>      | 1 GHz ~ 25 GHz | <b>Detector Function &amp; Bandwidth</b> | PK: RB=1 MHz, VB=3 MHz, DET=Peak<br>AV: RB=1 MHz, VB=3 kHz, DET=Peak |
| <b>Input Power (System)</b> | 120 Vac, 60 Hz | <b>Environmental Conditions</b>          | 23 °C, 73 % RH                                                       |
| <b>Tested By</b>            | Willy Lin      |                                          |                                                                      |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |                         |                |             |                    |                      |                  |                          |
|------------------------------------------------------|-----------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 4880.00         | 42.6 PK                 | 74.0           | -31.4       | 1.47 H             | 215                  | 40.9             | 1.7                      |
| 2                                                    | 4880.00         | 31.6 AV                 | 54.0           | -22.4       | 1.47 H             | 215                  | 29.9             | 1.7                      |
| 3                                                    | 7320.00         | 46.4 PK                 | 74.0           | -27.6       | 1.09 H             | 168                  | 39.6             | 6.8                      |
| 4                                                    | 7320.00         | 35.5 AV                 | 54.0           | -18.5       | 1.09 H             | 168                  | 28.7             | 6.8                      |
| Antenna Polarity & Test Distance : Vertical at 3 m   |                 |                         |                |             |                    |                      |                  |                          |
| No                                                   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 4880.00         | 40.7 PK                 | 74.0           | -33.3       | 2.30 V             | 76                   | 39.0             | 1.7                      |
| 2                                                    | 4880.00         | 30.3 AV                 | 54.0           | -23.7       | 2.30 V             | 76                   | 28.6             | 1.7                      |
| 3                                                    | 7320.00         | 45.8 PK                 | 74.0           | -28.2       | 3.70 V             | 19                   | 39.0             | 6.8                      |
| 4                                                    | 7320.00         | 36.8 AV                 | 54.0           | -17.2       | 3.70 V             | 19                   | 30.0             | 6.8                      |

**Remarks:**

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.

|                             |                |                                          |                                                                      |
|-----------------------------|----------------|------------------------------------------|----------------------------------------------------------------------|
| <b>RF Mode</b>              | BT-LE 1M       | <b>Channel</b>                           | CH 39 : 2480 MHz                                                     |
| <b>Frequency Range</b>      | 1 GHz ~ 25 GHz | <b>Detector Function &amp; Bandwidth</b> | PK: RB=1 MHz, VB=3 MHz, DET=Peak<br>AV: RB=1 MHz, VB=3 kHz, DET=Peak |
| <b>Input Power (System)</b> | 120 Vac, 60 Hz | <b>Environmental Conditions</b>          | 23 °C, 73 % RH                                                       |
| <b>Tested By</b>            | Willy Lin      |                                          |                                                                      |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |                         |                |             |                    |                      |                  |                          |
|------------------------------------------------------|-----------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 4960.00         | 42.3 PK                 | 74.0           | -31.7       | 1.47 H             | 230                  | 40.4             | 1.9                      |
| 2                                                    | 4960.00         | 31.1 AV                 | 54.0           | -22.9       | 1.47 H             | 230                  | 29.2             | 1.9                      |
| 3                                                    | 7440.00         | 46.4 PK                 | 74.0           | -27.6       | 1.09 H             | 143                  | 39.0             | 7.4                      |
| 4                                                    | 7440.00         | 35.5 AV                 | 54.0           | -18.5       | 1.09 H             | 143                  | 28.1             | 7.4                      |
| Antenna Polarity & Test Distance : Vertical at 3 m   |                 |                         |                |             |                    |                      |                  |                          |
| No                                                   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 4960.00         | 41.0 PK                 | 74.0           | -33.0       | 2.42 V             | 70                   | 39.1             | 1.9                      |
| 2                                                    | 4960.00         | 30.3 AV                 | 54.0           | -23.7       | 2.42 V             | 70                   | 28.4             | 1.9                      |
| 3                                                    | 7440.00         | 46.3 PK                 | 74.0           | -27.7       | 3.62 V             | 30                   | 38.9             | 7.4                      |
| 4                                                    | 7440.00         | 37.3 AV                 | 54.0           | -16.7       | 3.62 V             | 30                   | 29.9             | 7.4                      |

**Remarks:**

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.

|                             |                |                                          |                                                                      |
|-----------------------------|----------------|------------------------------------------|----------------------------------------------------------------------|
| <b>RF Mode</b>              | BT-LE 2M       | <b>Channel</b>                           | CH 1 : 2404 MHz                                                      |
| <b>Frequency Range</b>      | 1 GHz ~ 25 GHz | <b>Detector Function &amp; Bandwidth</b> | PK: RB=1 MHz, VB=3 MHz, DET=Peak<br>AV: RB=1 MHz, VB=1 kHz, DET=Peak |
| <b>Input Power (System)</b> | 120 Vac, 60 Hz | <b>Environmental Conditions</b>          | 23 °C, 73 % RH                                                       |
| <b>Tested By</b>            | Willy Lin      |                                          |                                                                      |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |                         |                |             |                    |                      |                  |                          |
|------------------------------------------------------|-----------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 4808.00         | 42.4 PK                 | 74.0           | -31.6       | 1.50 H             | 241                  | 40.7             | 1.7                      |
| 2                                                    | 4808.00         | 31.3 AV                 | 54.0           | -22.7       | 1.50 H             | 241                  | 29.6             | 1.7                      |
| Antenna Polarity & Test Distance : Vertical at 3 m   |                 |                         |                |             |                    |                      |                  |                          |
| No                                                   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 4808.00         | 40.5 PK                 | 74.0           | -33.5       | 2.35 V             | 74                   | 38.8             | 1.7                      |
| 2                                                    | 4808.00         | 30.0 AV                 | 54.0           | -24.0       | 2.35 V             | 74                   | 28.3             | 1.7                      |

**Remarks:**

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.

|                             |                |                                          |                                                                      |
|-----------------------------|----------------|------------------------------------------|----------------------------------------------------------------------|
| <b>RF Mode</b>              | BT-LE 2M       | <b>Channel</b>                           | CH 19 : 2440 MHz                                                     |
| <b>Frequency Range</b>      | 1 GHz ~ 25 GHz | <b>Detector Function &amp; Bandwidth</b> | PK: RB=1 MHz, VB=3 MHz, DET=Peak<br>AV: RB=1 MHz, VB=1 kHz, DET=Peak |
| <b>Input Power (System)</b> | 120 Vac, 60 Hz | <b>Environmental Conditions</b>          | 23 °C, 73 % RH                                                       |
| <b>Tested By</b>            | Willy Lin      |                                          |                                                                      |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |                         |                |             |                    |                      |                  |                          |
|------------------------------------------------------|-----------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 4880.00         | 42.5 PK                 | 74.0           | -31.5       | 1.47 H             | 235                  | 40.8             | 1.7                      |
| 2                                                    | 4880.00         | 31.6 AV                 | 54.0           | -22.4       | 1.47 H             | 235                  | 29.9             | 1.7                      |
| 3                                                    | 7320.00         | 47.1 PK                 | 74.0           | -26.9       | 1.14 H             | 161                  | 40.3             | 6.8                      |
| 4                                                    | 7320.00         | 35.9 AV                 | 54.0           | -18.1       | 1.14 H             | 161                  | 29.1             | 6.8                      |
| Antenna Polarity & Test Distance : Vertical at 3 m   |                 |                         |                |             |                    |                      |                  |                          |
| No                                                   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 4880.00         | 40.5 PK                 | 74.0           | -33.5       | 2.31 V             | 92                   | 38.8             | 1.7                      |
| 2                                                    | 4880.00         | 29.6 AV                 | 54.0           | -24.4       | 2.31 V             | 92                   | 27.9             | 1.7                      |
| 3                                                    | 7320.00         | 45.4 PK                 | 74.0           | -28.6       | 3.67 V             | 33                   | 38.6             | 6.8                      |
| 4                                                    | 7320.00         | 36.7 AV                 | 54.0           | -17.3       | 3.67 V             | 33                   | 29.9             | 6.8                      |

**Remarks:**

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.

|                             |                |                                          |                                                                      |
|-----------------------------|----------------|------------------------------------------|----------------------------------------------------------------------|
| <b>RF Mode</b>              | BT-LE 2M       | <b>Channel</b>                           | CH 38 : 2478 MHz                                                     |
| <b>Frequency Range</b>      | 1 GHz ~ 25 GHz | <b>Detector Function &amp; Bandwidth</b> | PK: RB=1 MHz, VB=3 MHz, DET=Peak<br>AV: RB=1 MHz, VB=1 kHz, DET=Peak |
| <b>Input Power (System)</b> | 120 Vac, 60 Hz | <b>Environmental Conditions</b>          | 23 °C, 73 % RH                                                       |
| <b>Tested By</b>            | Willy Lin      |                                          |                                                                      |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |                         |                |             |                    |                      |                  |                          |
|------------------------------------------------------|-----------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 4956.00         | 42.4 PK                 | 74.0           | -31.6       | 1.48 H             | 241                  | 40.5             | 1.9                      |
| 2                                                    | 4956.00         | 31.5 AV                 | 54.0           | -22.5       | 1.48 H             | 241                  | 29.6             | 1.9                      |
| 3                                                    | 7434.00         | 46.4 PK                 | 74.0           | -27.6       | 1.09 H             | 142                  | 39.0             | 7.4                      |
| 4                                                    | 7434.00         | 35.2 AV                 | 54.0           | -18.8       | 1.09 H             | 142                  | 27.8             | 7.4                      |
| Antenna Polarity & Test Distance : Vertical at 3 m   |                 |                         |                |             |                    |                      |                  |                          |
| No                                                   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 4956.00         | 40.1 PK                 | 74.0           | -33.9       | 2.32 V             | 77                   | 38.2             | 1.9                      |
| 2                                                    | 4956.00         | 29.8 AV                 | 54.0           | -24.2       | 2.32 V             | 77                   | 27.9             | 1.9                      |
| 3                                                    | 7434.00         | 45.9 PK                 | 74.0           | -28.1       | 3.70 V             | 22                   | 38.5             | 7.4                      |
| 4                                                    | 7434.00         | 36.8 AV                 | 54.0           | -17.2       | 3.70 V             | 22                   | 29.4             | 7.4                      |

**Remarks:**

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.

## 8 Pictures of Test Arrangements

Please refer to the attached file (Test Setup Photo)

## 9 Information of the Testing Laboratories

We, Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch, were founded in 1988 to provide our best service in EMC, Radio, Telecom and Safety consultation. Our laboratories are FCC recognized accredited test firms and accredited according to ISO/IEC 17025.

If you have any comments, please feel free to contact us at the following:

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The address and road map of all our labs can be found in our web site also.

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