

TEST REPORT

CERTIFICATE OF CONFORMITY

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

Report No.: RFBGDGE-WTW-P22050591-3

FCC ID: EHTPERS2

Model No.: 6930w

Received Date: 2022/5/18

Test Date: 2022/5/31 ~ 2022/6/23

Issued Date: Jul. 08, 2022

Applicant: Mitel Networks

Address: 4000 Innovation Drive Ottawa, Canada K2K 3K1

Issued By: Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch
Lin Kou Laboratories

Lab Address: No. 47-2, 14th Ling, Chia Pau Vil., Lin Kou Dist., New Taipei City, Taiwan

Test Location: No. 19, Hwa Ya 2nd Rd., Wen Hwa Vil., Kewi Shan Dist., Taoyuan City 33383, Taiwan

FCC Registration / 788550 / TW0003

Designation Number:

Approved by: _____

Jeremy Lin

Date: _____

Jul. 08, 2022

Jeremy Lin / Project Engineer

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Prepared by : Gina Liu / Specialist



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Release Control Record

| Issue No. | Description | Date Issued |
|------------------------|-------------------|---------------|
| RFBGDG-WTW-P22050591-3 | Original release. | Jul. 08, 2022 |

1 Certificate

Product: IP Phone

Brand: Mitel

Test Model: 6930w

Sample Status: Engineering sample

Applicant: Mitel Networks

Test Date: 2022/5/31 ~ 2022/6/23

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 -7.46 dB at 19.91400 MHz |
| 15.205 / 15.209 / 15.247(d) | Unwanted Emissions below 1 GHz | Pass | Minimum passing margin is -5.17 dB at 624.61 MHz |
| 15.205 / 15.209 / 15.247(d) | Unwanted Emissions above 1 GHz | Pass | Minimum passing margin is -6.0 dB at 2483.50 MHz |
| 15.203 | Antenna Requirement | Pass | No antenna connector is used. |

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) (±) |
|---------------------------------|-----------------|-----------------------------------|
| Conducted Out of Band Emissions | 9 kHz ~ 40 GHz | 2.79 dB |
| AC Power Conducted Emissions | 9 kHz ~ 30 MHz | 2.79 dB |
| Unwanted Emissions below 1 GHz | 9 kHz ~ 30 MHz | 3 dB |
| | 30 MHz ~ 1 GHz | 3.6 dB |
| Unwanted Emissions above 1 GHz | 1 GHz ~ 18 GHz | 2.29 dB |
| | 18 GHz ~ 40 GHz | 2.29 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 | IP Phone |
| Brand | Mitel |
| Test Model | 6930w |
| FW Version | 6.3.1.49 |
| Status of EUT | Engineering sample |
| Power Supply Rating | 48Vdc from adapter 56Vdc from POE |
| Modulation Type | GFSK |
| Modulation Technology | DTS |
| Transfer Rate | Up to 2 Mbps |
| Operating Frequency | 2402 ~ 2480 MHz |
| Number of Channel | 40 |
| Output Power | 2.104 mW (3.23 dBm) |

Note:

1. The EUT uses the following devices.

| Item | Brand | Model | Specification | Remark |
|----------------------|---------|--------------|---|--------------|
| Adapter | FSP | FSP030-DFMN3 | I/P: 100-240Vac, 50-60Hz, 1.2A O/P: 48Vdc, 0.625A DC Cable: 1.78m power cable with one core attached on adapter | Support unit |
| Network Cable (RJ45) | NA | NA | 2.1m non-shielded RJ45 cable without core | Accessory |
| PoE | Phihong | POE15M-1AF | I/P: 100-240Vac, 50-60Hz, 0.8A O/P: 56Vdc, 0.275A, 15.4W | Support unit |

2. 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 No. | Gain (dBi) | | | Antenna Type | Connector Type |
|-------------|------------|------|------|--------------|----------------|
| | 2400 | 2450 | 2500 | | |
| 1 | 2.35 | 2.63 | 2.24 | Chip | N/A |

* The above Antenna information refers to the manufacturer's antenna specifications, the laboratory shall not be held responsible.

3.3 Channel List

40 channels are provided for BT-LE:

| Channel | Frequency (MHz) | Channel | Frequency (MHz) | Channel | Frequency (MHz) | Channel | Frequency (MHz) |
|---------|-----------------|---------|-----------------|---------|-----------------|---------|-----------------|
| 0 | 2402 | 10 | 2422 | 20 | 2442 | 30 | 2462 |
| 1 | 2404 | 11 | 2424 | 21 | 2444 | 31 | 2464 |
| 2 | 2406 | 12 | 2426 | 22 | 2446 | 32 | 2466 |
| 3 | 2408 | 13 | 2428 | 23 | 2448 | 33 | 2468 |
| 4 | 2410 | 14 | 2430 | 24 | 2450 | 34 | 2470 |
| 5 | 2412 | 15 | 2432 | 25 | 2452 | 35 | 2472 |
| 6 | 2414 | 16 | 2434 | 26 | 2454 | 36 | 2474 |
| 7 | 2416 | 17 | 2436 | 27 | 2456 | 37 | 2476 |
| 8 | 2418 | 18 | 2438 | 28 | 2458 | 38 | 2478 |
| 9 | 2420 | 19 | 2440 | 29 | 2460 | 39 | 2480 |

3.4 Test Mode Applicability and Tested Channel Detail

| | |
|---------------------|--|
| Pre-Scan: | EUT can be used in the following ways: X-axis / Z-axis. Pre-scan in these ways and find the worst case as a representative test condition. |
| Worst Case: | The worst case was found when positioned on X-plane. |
| EUT Configure Mode: | Mode A: EUT with Adapter Mode B: EUT with POE |

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

| EUT Configure Mode | Test Item | Mode | Tested Channel | Modulation | Data Rate Parameter |
|--------------------|--|----------|----------------|------------|---------------------|
| A, B | AC Power Conducted Emissions | BT-LE 2M | 0 | GFSK | 2Mb/s |
| A, B | Unwanted Emissions below 1 GHz | BT-LE 2M | 0 | GFSK | 2Mb/s |
| A | Unwanted Emissions above 1 GHz | BT-LE 1M | 0, 19, 39 | GFSK | 1Mb/s |
| | | BT-LE 2M | 0, 19, 39 | GFSK | 2Mb/s |
| A | RF Output Power / Power Spectral Density | BT-LE 1M | 0, 19, 39 | GFSK | 1Mb/s |
| | | BT-LE 2M | 0, 19, 39 | GFSK | 2Mb/s |
| A | 6 dB Bandwidth / Conducted Out of Band Emissions | BT-LE 1M | 0, 19, 39 | GFSK | 1Mb/s |
| | | BT-LE 2M | 0, 19, 39 | GFSK | 2Mb/s |

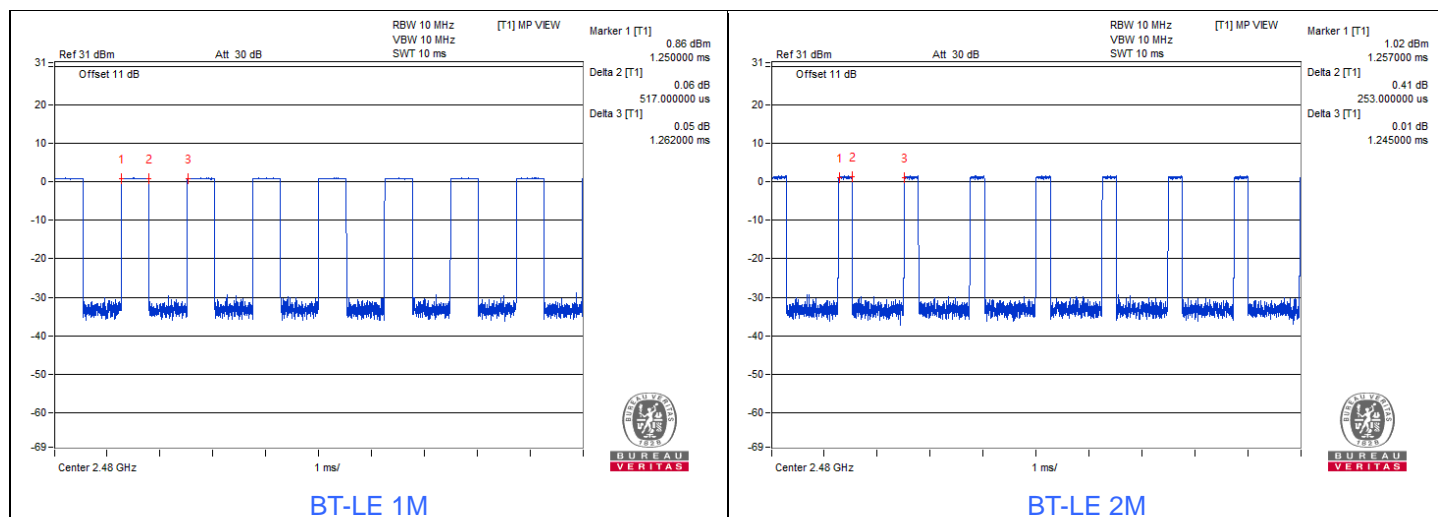
3.5 Duty Cycle of Test Signal

Duty cycle of test signal is $\geq 98\%$, duty factor is not required.

Duty cycle of test signal is $< 98\%$, duty factor shall be considered.

BT-LE 1M: Duty cycle = $0.517 \text{ ms} / 1.262 \text{ ms} \times 100\% = 41.0\%$, duty factor = $10 * \log(1/\text{Duty cycle}) = 3.88 \text{ dB}$

BT-LE 2M: Duty cycle = $0.253 \text{ ms} / 1.245 \text{ ms} \times 100\% = 20.3\%$, duty factor = $10 * \log(1/\text{Duty cycle}) = 6.92 \text{ dB}$

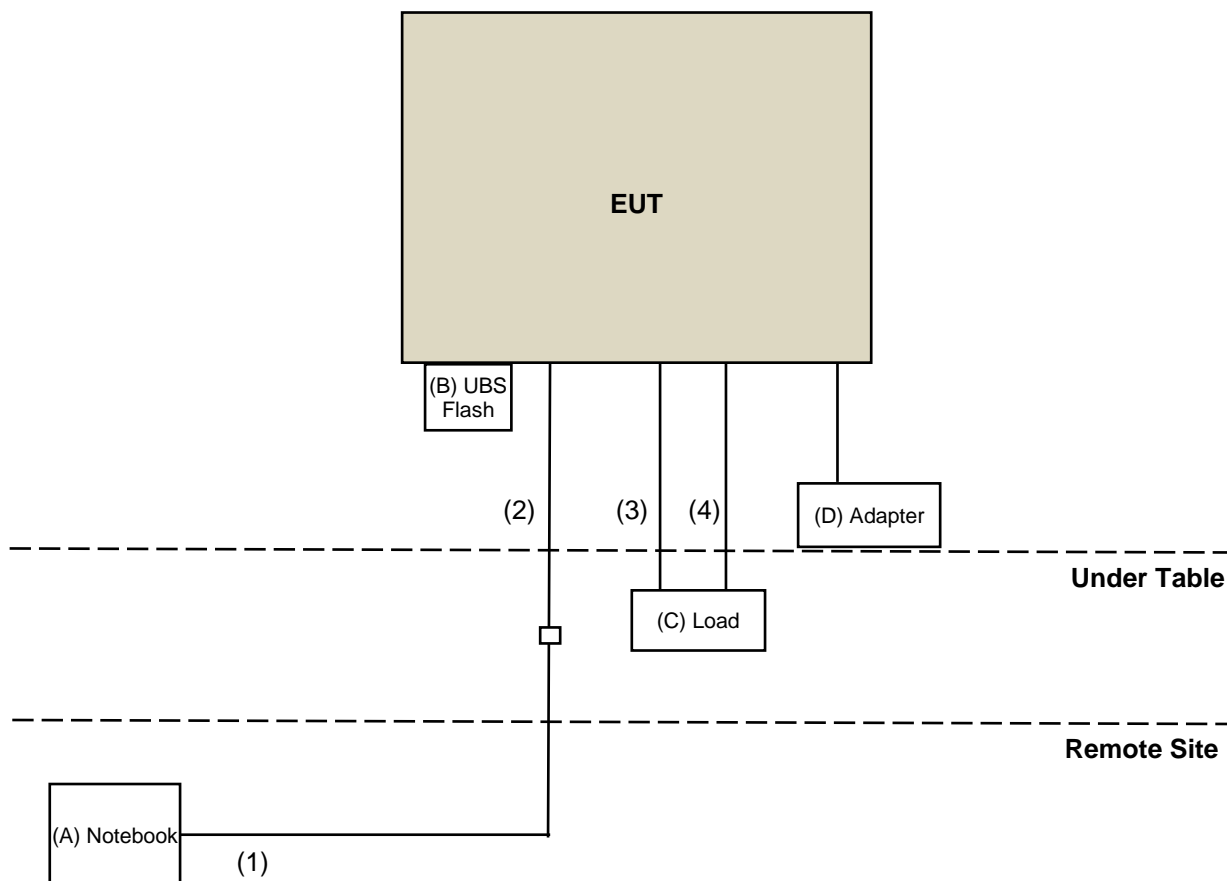


3.6 Test Program Used and Operation Descriptions

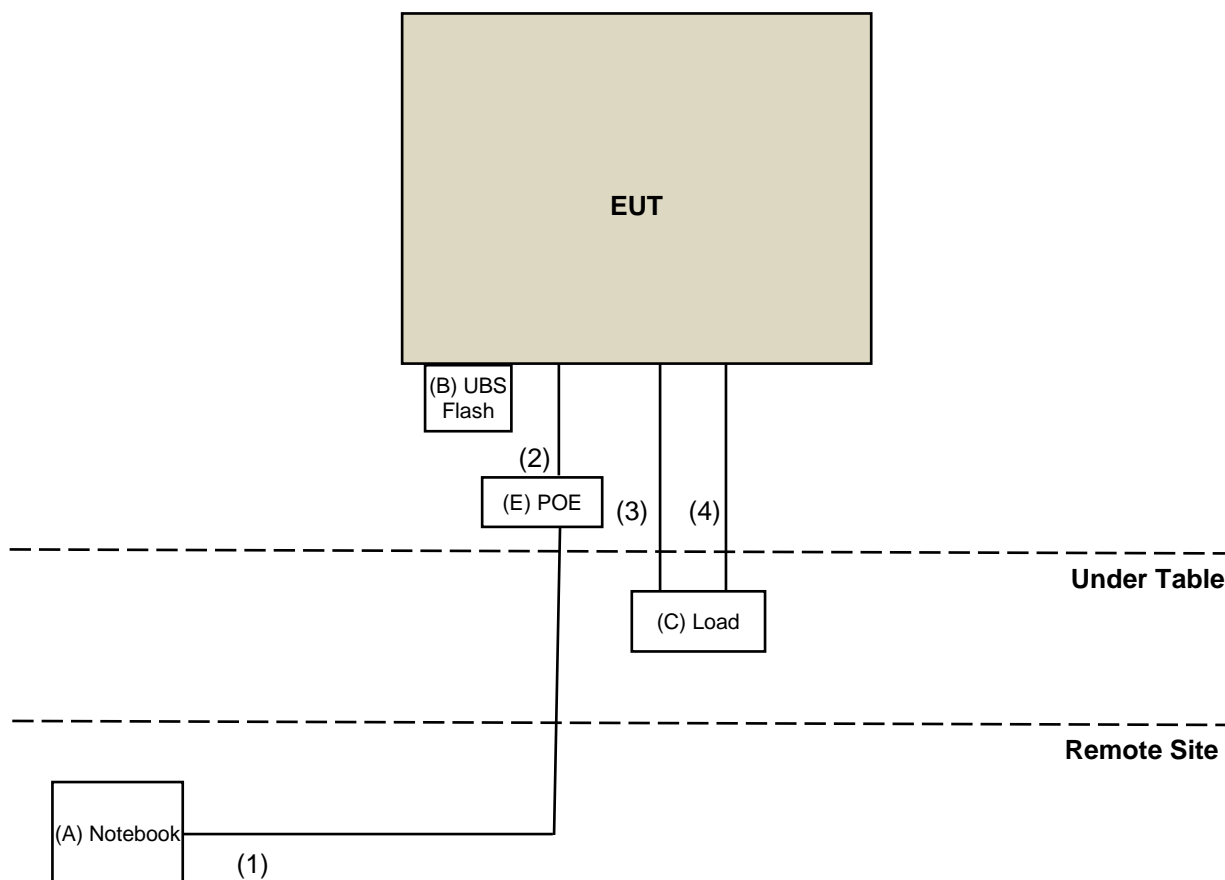
Controlling software Tera Term 4.71 has been activated to set the EUT under transmission condition continuously at specific channel frequency.

3.7 Connection Diagram of EUT and Peripheral Devices

Mode A



Mode B



3.8 Configuration of Peripheral Devices and Cable Connections

| ID | Product | Brand | Model No. | Serial No. | FCC ID | Remarks |
|----|------------|---------|--------------|------------|--------|--------------------|
| A | 14" Laptop | Lenovo | L440 | R9-0GFJJKK | N/A | Provided by Lab |
| B | UBS Flash | SanDisk | N/A | N/A | N/A | Provided by Lab |
| C | Load | N/A | N/A | N/A | N/A | Provided by Lab |
| D | Adapter | FSP | FSP030-DFMN3 | N/A | N/A | Provided by client |
| E | POE | Phihong | POE15M-1AF | N/A | N/A | Provided by client |

| ID | Cable Descriptions | Qty. | Length (m) | Shielding (Yes/No) | Cores (Qty.) | Remarks |
|----|--------------------|------|------------|--------------------|--------------|-----------------------|
| 1 | RJ-45 Cable | 1 | 6 | N | N | Provided by Lab |
| 2 | RJ-45 Cable | 1 | 2.1 | N | N | Supplied by applicant |
| 3 | RJ-45 Cable | 1 | 2.1 | N | N | Supplied by applicant |
| 4 | RJ-11 Cable | 1 | 1.5 | N | N | 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 Manufacturer | Model No. | Serial No. | Calibrated Date | Calibrated Until |
|--|-----------|---|--------------------|---------------------|
| Peak Power Analyzer KEYSIGHT | 8990B | MY51000485 | 2022/1/18 | 2023/1/17 |
| USB Wideband Power Sensor KEYSIGHT | U2021XA | MY55050005/MY55190004/MY55190007/MY55210005 | 2021/7/12 | 2022/7/11 |
| Wideband Power Sensor(N1923A) KEYSIGHT | N1923A | MY58020002 | 2022/1/17 | 2023/1/16 |

Notes:

1. The test was performed in Oven room.
2. Tested Date: 2022/6/15

4.2 Power Spectral Density

| Description Manufacturer | Model No. | Serial No. | Calibrated Date | Calibrated Until |
|-----------------------------|----------------------------------|------------|--------------------|---------------------|
| Software BV | ADT_RF Test Software V6.6.5.4 | N/A | N/A | N/A |
| Spectrum Analyzer R&S | FSV40 | 100979 | 2022/3/25 | 2023/3/24 |

Notes:

1. The test was performed in Oven room.
2. Tested Date: 2022/6/15

4.3 6 dB Bandwidth

Refer to section 4.2 to get information of the instruments.

4.4 Conducted Out of Band Emissions

Refer to section 4.2 to get information of the instruments.

4.5 AC Power Conducted Emissions

| Description Manufacturer | Model No. | Serial No. | Calibrated Date | Calibrated Until |
|---|-------------------------|----------------|--------------------|---------------------|
| DC LISN R&S | ESH3-Z6 | 100219 | 2021/7/25 | 2022/7/24 |
| | | 844950/018 | 2021/7/25 | 2022/7/24 |
| DC-LISN SCHWARZBECK MESS- ELETRONIK | NNBM 8126G | 8126G-069 | 2021/11/10 | 2022/11/9 |
| LISN R&S | ESH2-Z5 | 100100 | 2022/2/17 | 2023/2/16 |
| | ESH3-Z5 | 100312 | 2021/9/17 | 2022/9/16 |
| | ENV216 | 100071 | 2021/10/27 | 2022/10/26 |
| RF Coaxial Cable WORKEN | 5D-FB | Cable-cond2-01 | 2021/9/4 | 2022/9/3 |
| Software BVADT | BVADT_Cond_ V7.3.7.4 | N/A | N/A | N/A |
| Test Receiver R&S | ESR3 | 102783 | 2021/12/20 | 2022/12/19 |
| V-LISN Schwarzbeck | NNBL 8226-2 | 8226-142 | 2021/8/20 | 2022/8/19 |

Notes:

1. The test was performed in HY - Conduction 2.
2. Tested Date: 2022/5/31-6/23

4.6 Unwanted Emissions below 1 GHz

| Description Manufacturer | Model No. | Serial No. | Calibrated Date | Calibrated Until |
|--------------------------------------|------------------------------|---------------|--------------------|---------------------|
| Antenna Tower & Turn BV ADT | AT100 | AT93021705 | N/A | N/A |
| Bi_Log Antenna Schwarbeck | VULB9168 | 9168-160 | 2021/10/28 | 2022/10/27 |
| Loop Antenna TESEQ | HLA 6121 | 45745 | 2021/7/21 | 2022/7/20 |
| Loop Antenna EMCI | EM-6879 | 269 | 2021/9/16 | 2022/9/15 |
| Preamplifier Agilent | 8447D | 2944A10638 | 2022/5/14 | 2023/5/13 |
| Pre-amplifier EMCI | EMC001340 | 980201 | 2021/9/15 | 2022/9/14 |
| RF Coaxial Cable EMCI | 5D-NM-BM | 140903+140902 | 2022/1/15 | 2023/1/14 |
| RF Coaxial Cable WOKEN | 8D-FB | Cable-CH9-01 | 2022/5/14 | 2023/5/13 |
| Software BV ADT | ADT_Radiated_ V7.6.15.9.5 | N/A | N/A | N/A |
| Spectrum Analyzer ROHDE & SCHWARZ | FSP40 | 100040 | 2021/9/15 | 2022/9/14 |
| Test Receiver Agilent | N9038A | MY51210203 | 2021/9/22 | 2022/9/21 |
| Turn Table BV ADT | TT100 | TT93021705 | N/A | N/A |
| Turn Table Controller BV ADT | SC100 | SC93021705 | N/A | N/A |

Notes:

1. The test was performed in HY - 966 chamber 4.
2. Tested Date: 2022/5/31-6/23

4.7 Unwanted Emissions above 1 GHz

| Description Manufacturer | Model No. | Serial No. | Calibrated Date | Calibrated Until |
|---------------------------------------|-----------------------------------|---------------------------------|--------------------|---------------------|
| Antenna Tower & Turn BV ADT | AT100 | AT93021705 | N/A | N/A |
| Boresight antenna tower fixture BV | BAF-02 | 5 | N/A | N/A |
| Horn Antenna Schwarzbeck | 9120D | 9120D-1169 | 2021/11/14 | 2022/11/13 |
| | BBHA 9170 | BBHA9170241 | 2021/10/26 | 2022/10/25 |
| Pre-Amplifier EMCI | EMC 184045 | 980116 | 2021/10/5 | 2022/10/4 |
| Preamplifier Agilent | 8449B | 3008A02367 | 2022/2/16 | 2023/2/15 |
| RF Coaxial Cable HUBER+SUHNER&EMCI | SUCOFLEX 104& EMC104-SM-SM8000 | CABLE-CH9-02 (248780+171006) | 2022/1/15 | 2023/1/14 |
| RF Coaxial Cable HUBER+SUHNER | SUCOFLEX 104 | CABLE-CH9-(250795/4) | 2022/1/15 | 2023/1/14 |
| RF FLITER MICRO-TRONICS | BRM50716 | 060 | 2022/1/10 | 2023/1/9 |
| | BRM17690 | 004 | 2022/1/10 | 2023/1/9 |
| Software BV ADT | ADT_Radiated_ V7.6.15.9.5 | N/A | N/A | N/A |
| Spectrum Analyzer R&S | FSW43 | 101867 | 2022/1/7 | 2023/1/6 |
| Test Receiver Agilent | N9038A | MY51210203 | 2021/9/22 | 2022/9/21 |
| Turn Table BV ADT | TT100 | TT93021705 | N/A | N/A |
| Turn Table Controller BV ADT | SC100 | SC93021705 | N/A | N/A |

Notes:

1. The test was performed in HY - 966 chamber 4.
2. Tested Date: 2022/6/10

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)

Per KDB 662911 D01 Multiple Transmitter Output Method of conducted output power measurement on IEEE 802.11 devices,

Array Gain = 0 dB (i.e., no array gain) for $N_{ANT} \leq 4$;

Array Gain = 0 dB (i.e., no array gain) for channel widths ≥ 40 MHz for any N_{ANT} ;

Array Gain = $5 \log(N_{ANT}/N_{SS})$ dB or 3 dB, whichever is less, for 20-MHz channel widths with $N_{ANT} \geq 5$.

For power measurements on all other devices: Array Gain = $10 \log(N_{ANT}/N_{SS})$ dB.

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 30 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 30 dB below the highest level of the desired power:

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

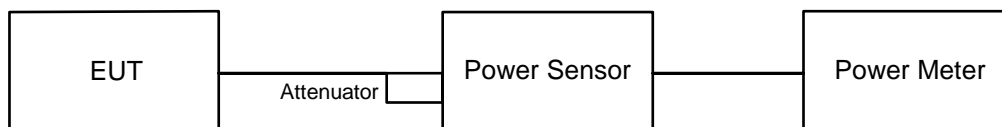
Notes:

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:

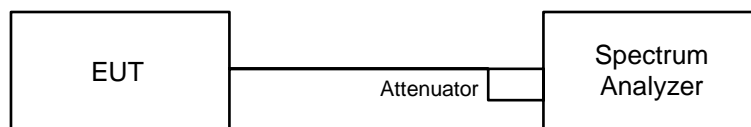
A peak power sensor was used on the output port of the EUT. A power meter was used to read the response of the peak power sensor. Record the power level.

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

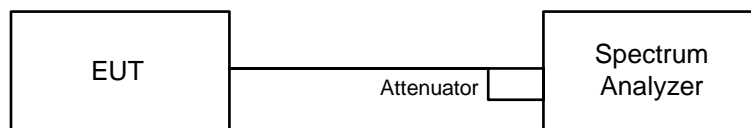


6.2.2 Test Procedure

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

6.3 6 dB Bandwidth

6.3.1 Test Setup

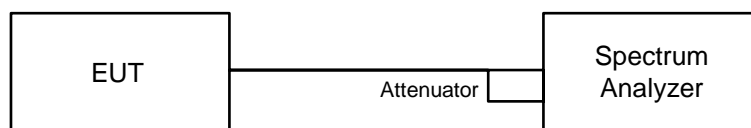


6.3.2 Test Procedure

- 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

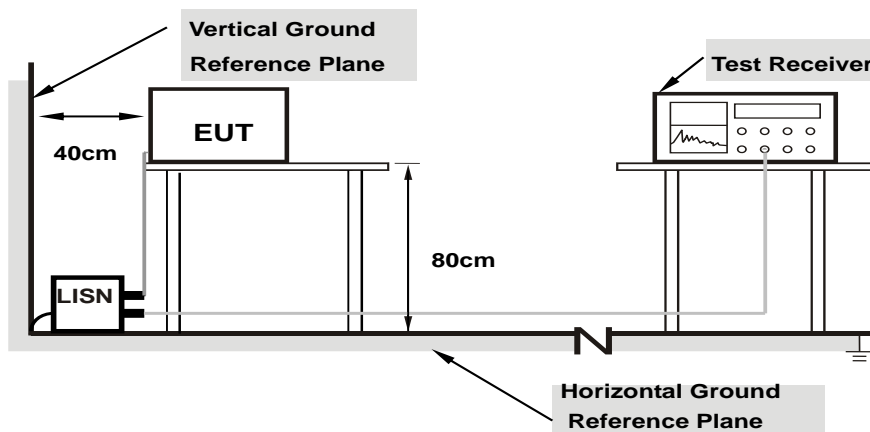
- Set the RBW = 100 kHz.
- Set the VBW ≥ 300 kHz.
- Detector = peak.
- Sweep time = auto couple.
- Trace mode = max hold.
- Allow trace to fully stabilize.
- Use the peak marker function to determine the maximum power level in any 100 kHz band segment within the fundamental EBW.

MEASUREMENT PROCEDURE OOB

- Set RBW = 100 kHz.
- Set VBW ≥ 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 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.

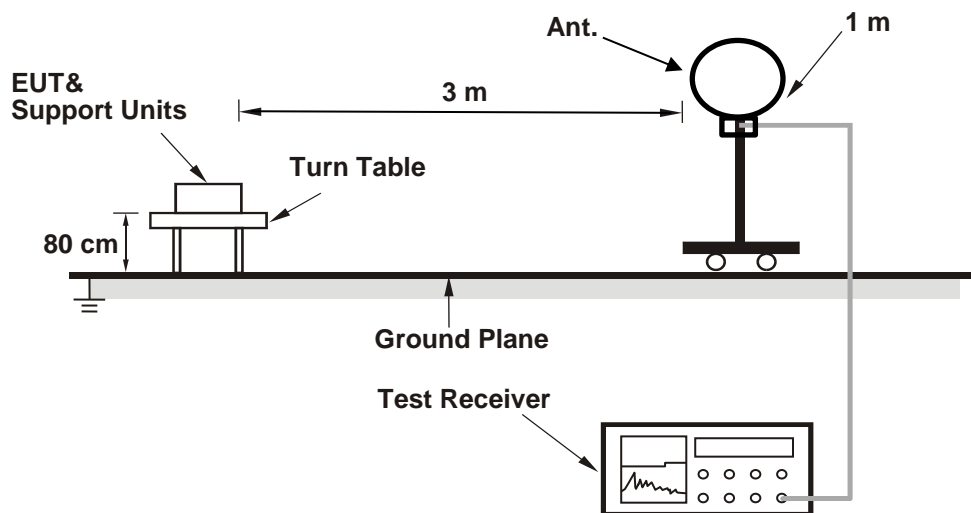
Note:

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.

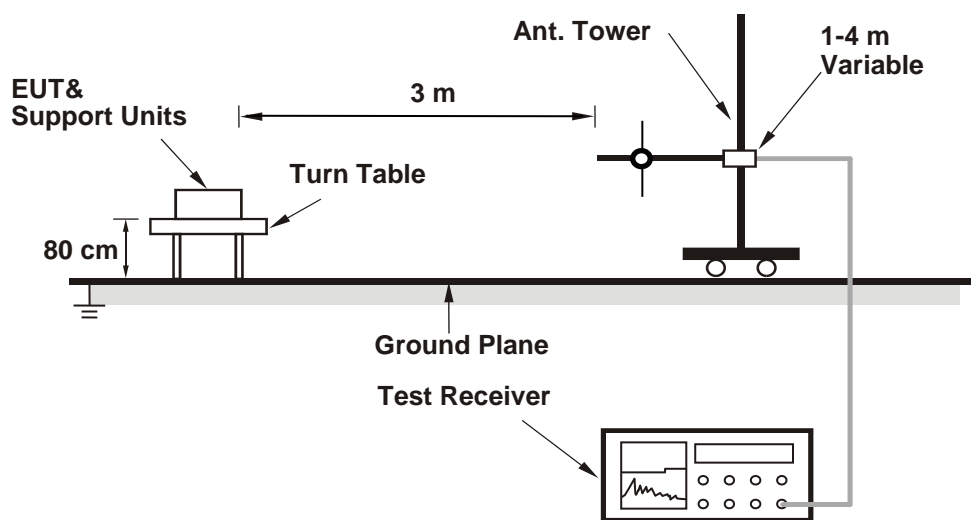
6.6 Unwanted Emissions below 1 GHz

6.6.1 Test Setup

For Radiated emission below 30 MHz



For Radiated emission above 30 MHz



6.6.2 Test Procedure

For Radiated emission below 30 MHz

- a. 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.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. Parallel, perpendicular, and ground-parallel orientations of the antenna are set to make the measurement.
- d. 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. The test-receiver system was set to Quasi-Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

Notes:

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 9 kHz at frequency below 30 MHz.
2. All modes of operation were investigated and the worst-case emissions are reported.

For Radiated emission above 30 MHz

- a. 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.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. 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.
- d. 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. 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.

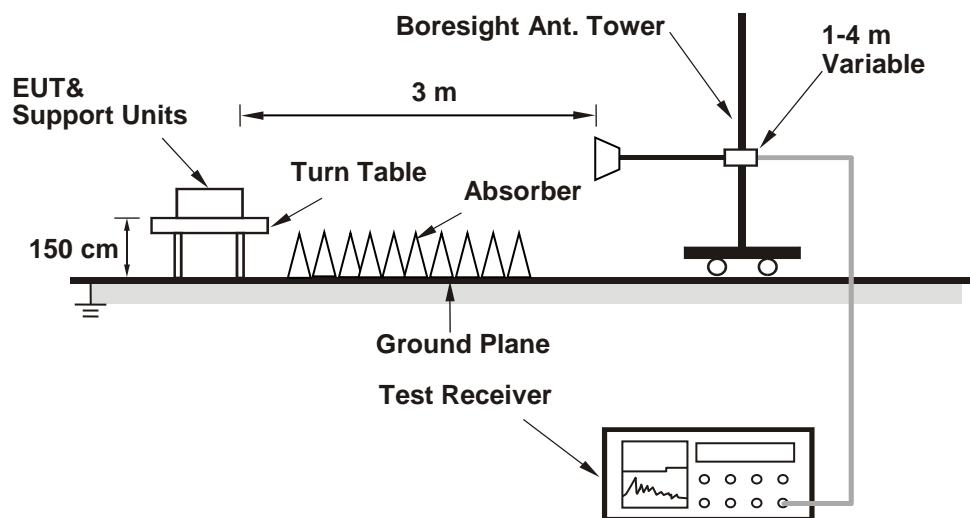
Notes:

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.

6.7 Unwanted Emissions above 1 GHz

6.7.1 Test Setup

For Radiated emission above 1 GHz



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

6.7.2 Test Procedure

- 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.
- The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- 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.
- 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.
- 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:

- 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.
- 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.
- All modes of operation were investigated and the worst-case emissions are reported.

7 Test Results of Test Item

7.1 RF Output Power

| | | | | | |
|--------------|----------------|---------------------------|--------------|------------|--------------|
| Input Power: | 120 Vac, 60 Hz | Environmental Conditions: | 25°C, 60% RH | Tested By: | Jisyong Wang |
|--------------|----------------|---------------------------|--------------|------------|--------------|

For Peak Power

BT-LE 1M

| Chan. | Chan. Freq. (MHz) | Peak Power (mW) | Peak Power (dBm) | Power Limit (dBm) | Test Result |
|-------|-------------------|-----------------|------------------|-------------------|-------------|
| 0 | 2402 | 1.807 | 2.57 | 30 | Pass |
| 19 | 2440 | 1.652 | 2.18 | 30 | Pass |
| 39 | 2480 | 1.514 | 1.80 | 30 | Pass |

Note: The antenna gain is 2.63 dBi < 6 dBi, so the output power limit shall not be reduced.

BT-LE 2M

| Chan. | Chan. Freq. (MHz) | Peak Power (mW) | Peak Power (dBm) | Power Limit (dBm) | Test Result |
|-------|-------------------|-----------------|------------------|-------------------|-------------|
| 0 | 2402 | 2.104 | 3.23 | 30 | Pass |
| 19 | 2440 | 1.897 | 2.78 | 30 | Pass |
| 39 | 2480 | 1.734 | 2.39 | 30 | Pass |

Note: The antenna gain is 2.63 dBi < 6 dBi, so the output power limit shall not be reduced.

For Average Power

BT-LE 1M

| Chan. | Chan. Freq. (MHz) | Average Power (mW) | Average Power (dBm) |
|-------|-------------------|--------------------|---------------------|
| 0 | 2402 | 1.742 | 2.41 |
| 19 | 2440 | 1.563 | 1.94 |
| 39 | 2480 | 1.452 | 1.62 |

BT-LE 2M

| Chan. | Chan. Freq. (MHz) | Average Power (mW) | Average Power (dBm) |
|-------|-------------------|--------------------|---------------------|
| 0 | 2402 | 1.774 | 2.49 |
| 19 | 2440 | 1.581 | 1.99 |
| 39 | 2480 | 1.466 | 1.66 |

7.2 Power Spectral Density

| | | | | | |
|--------------|----------------|---------------------------|--------------|------------|--------------|
| Input Power: | 120 Vac, 60 Hz | Environmental Conditions: | 25°C, 60% RH | Tested By: | Jisyong Wang |
|--------------|----------------|---------------------------|--------------|------------|--------------|

BT-LE 1M

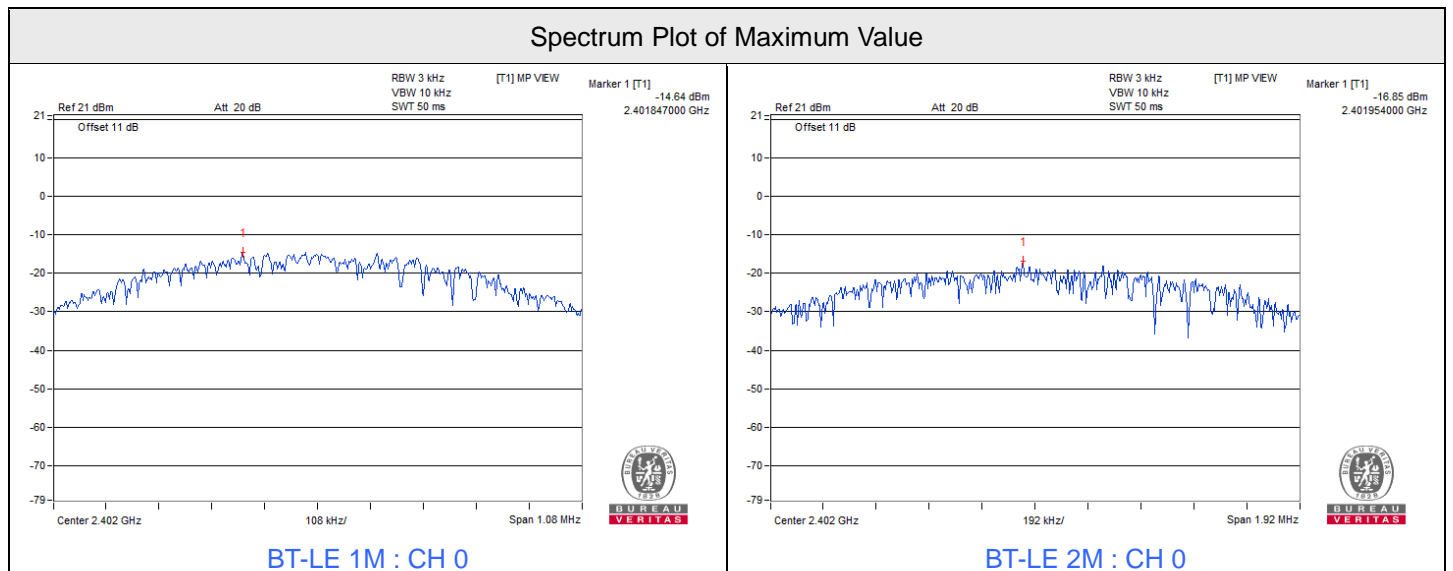
| Chan. | Chan. Freq. (MHz) | PSD (dBm/3kHz) | PSD Limit (dBm/3kHz) | Test Result |
|-------|-------------------|----------------|----------------------|-------------|
| 0 | 2402 | -14.64 | 8.00 | Pass |
| 19 | 2440 | -15.15 | 8.00 | Pass |
| 39 | 2480 | -15.75 | 8.00 | Pass |

Note: The antenna gain is 2.63 dBi < 6 dBi, so the power density limit shall not be reduced.

BT-LE 2M

| Chan. | Chan. Freq. (MHz) | PSD (dBm/3kHz) | PSD Limit (dBm/3kHz) | Test Result |
|-------|-------------------|----------------|----------------------|-------------|
| 0 | 2402 | -16.85 | 8.00 | Pass |
| 19 | 2440 | -17.46 | 8.00 | Pass |
| 39 | 2480 | -17.62 | 8.00 | Pass |

Note: The antenna gain is 2.63 dBi < 6 dBi, so the power density limit shall not be reduced.



7.3 6 dB Bandwidth

| | | | | | |
|--------------|----------------|---------------------------|--------------|------------|--------------|
| Input Power: | 120 Vac, 60 Hz | Environmental Conditions: | 25°C, 60% RH | Tested By: | Jisyong Wang |
|--------------|----------------|---------------------------|--------------|------------|--------------|

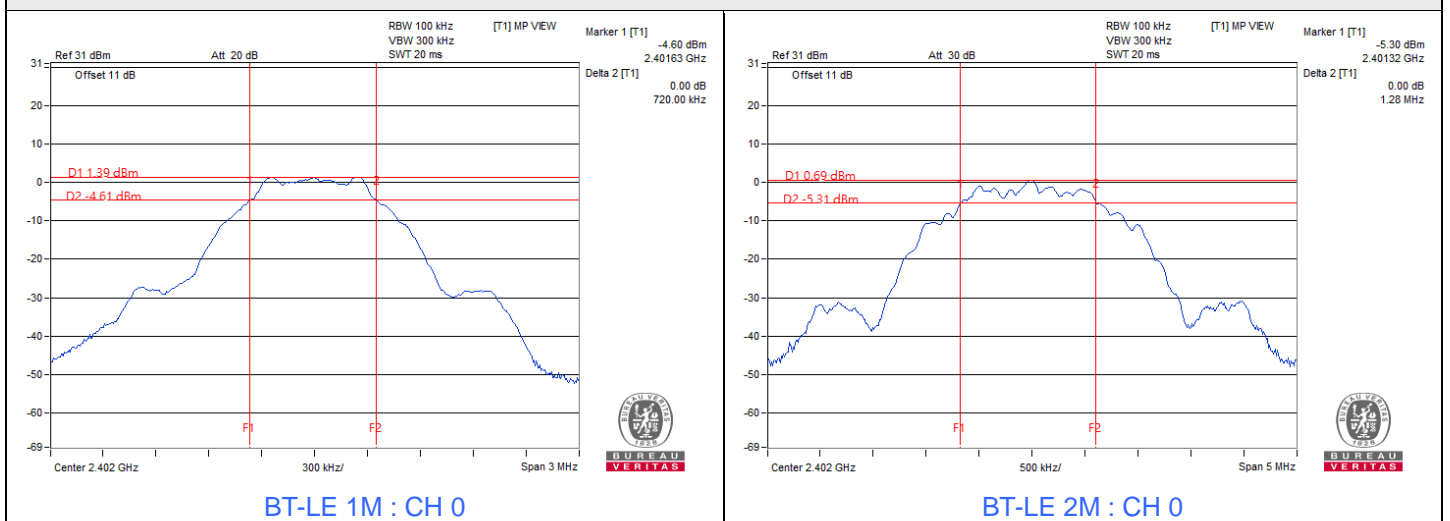
BT-LE 1M

| Channel | Frequency (MHz) | 6dB Bandwidth (MHz) | Minimum Limit (MHz) | Test Result |
|---------|-----------------|---------------------|---------------------|-------------|
| 0 | 2402 | 0.72 | 0.5 | Pass |
| 19 | 2440 | 0.72 | 0.5 | Pass |
| 39 | 2480 | 0.72 | 0.5 | Pass |

BT-LE 2M

| Channel | Frequency (MHz) | 6dB Bandwidth (MHz) | Minimum Limit (MHz) | Test Result |
|---------|-----------------|---------------------|---------------------|-------------|
| 0 | 2402 | 1.28 | 0.5 | Pass |
| 19 | 2440 | 1.28 | 0.5 | Pass |
| 39 | 2480 | 1.28 | 0.5 | Pass |

Spectrum Plot of Minimum Value

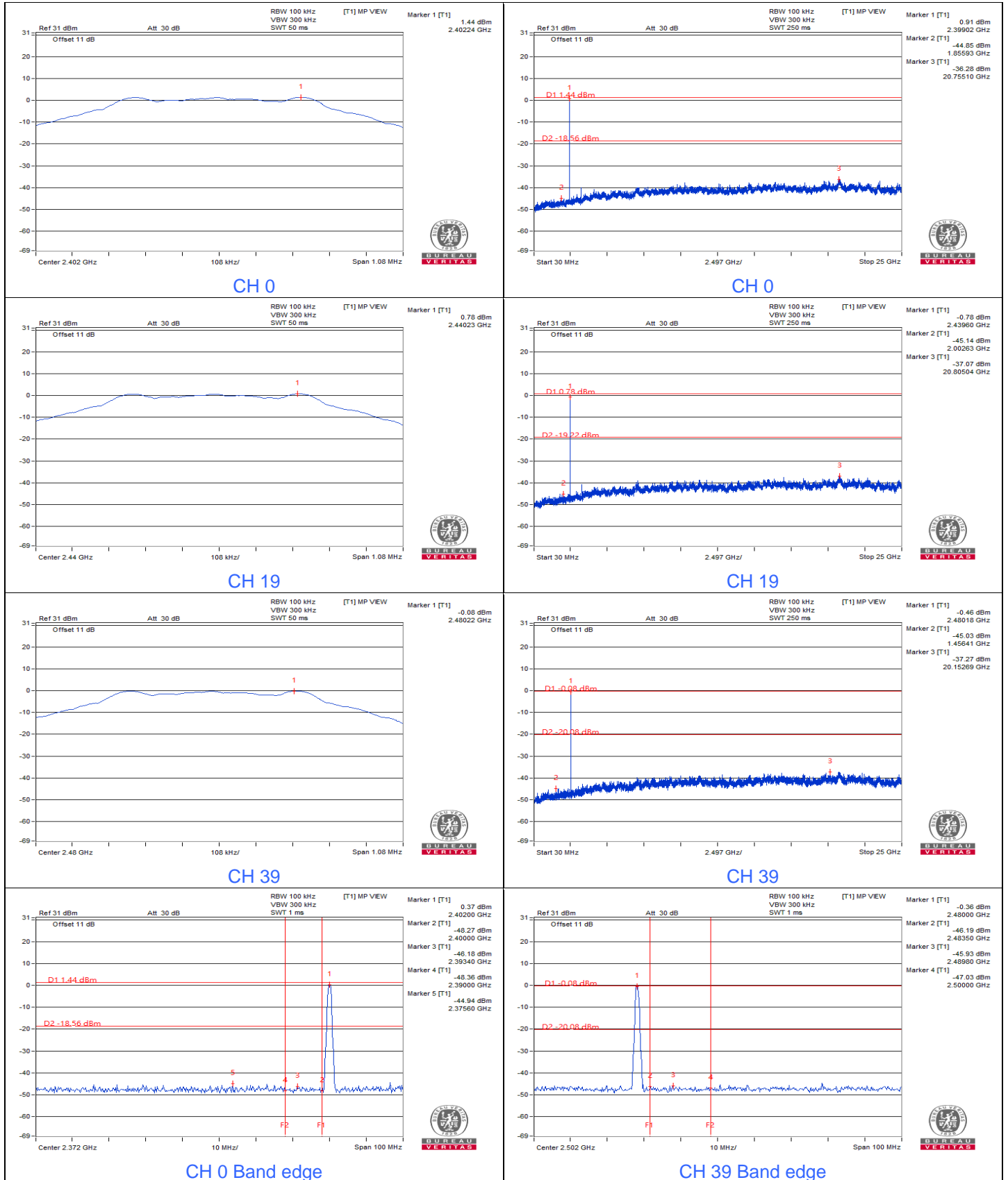




7.4 Conducted Out of Band Emissions

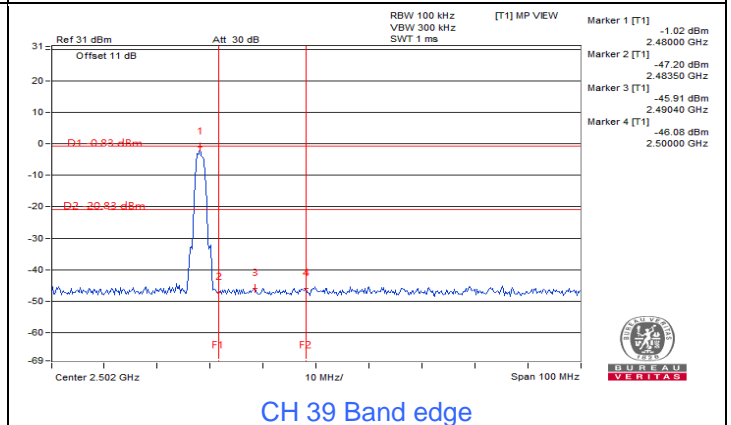
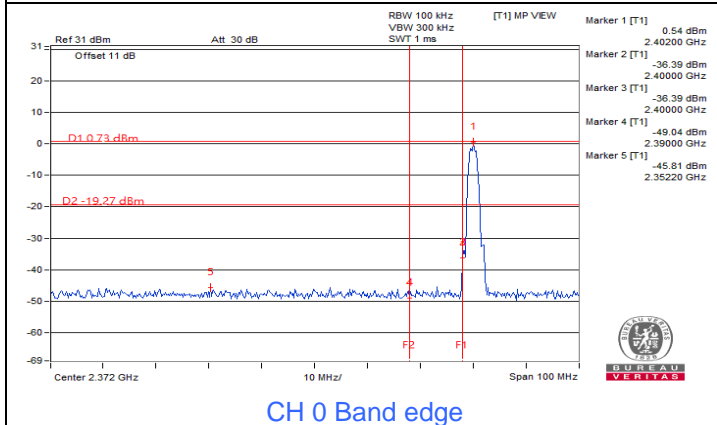
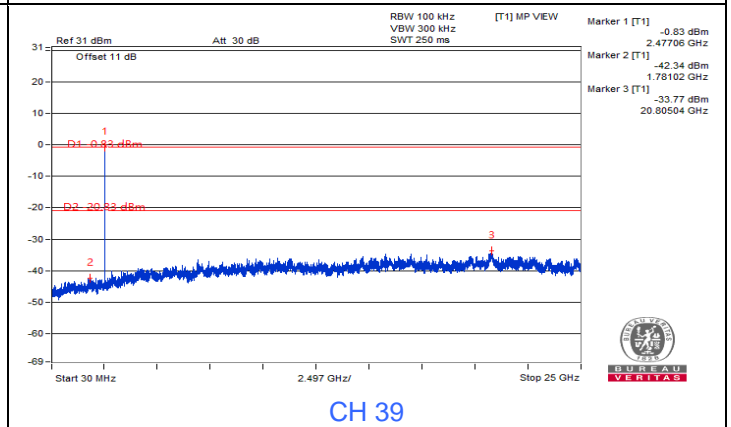
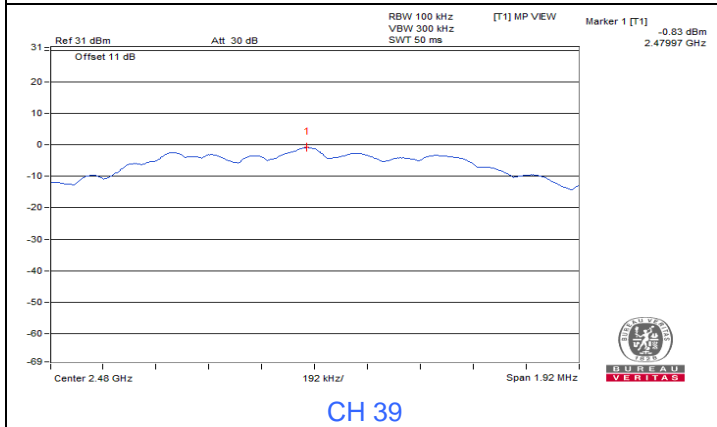
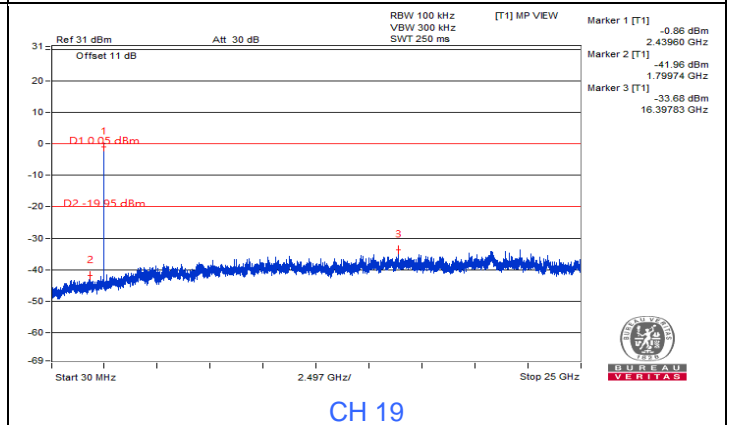
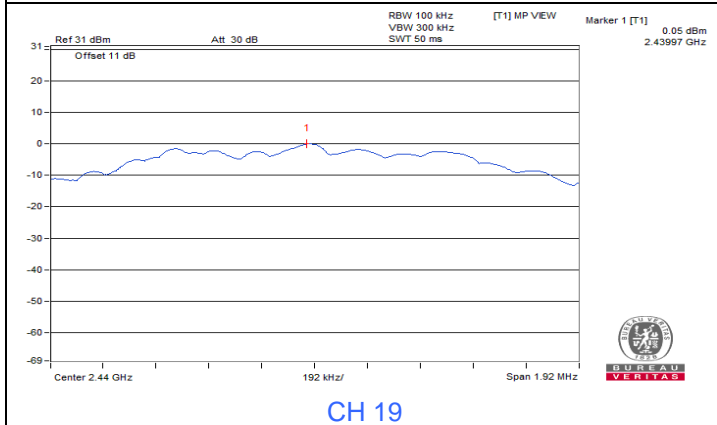
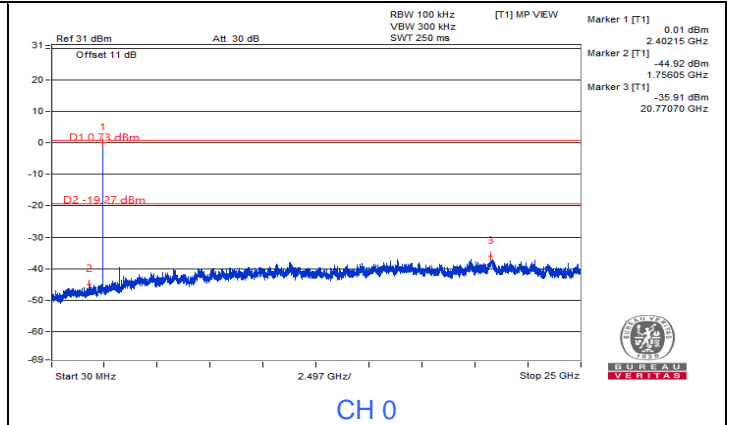
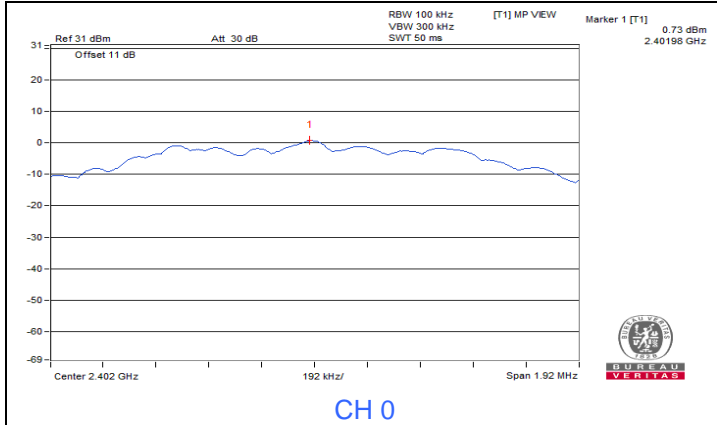
| | | | | | |
|--------------|----------------|---------------------------|--------------|------------|--------------|
| Input Power: | 120 Vac, 60 Hz | Environmental Conditions: | 25°C, 60% RH | Tested By: | Jisyong Wang |
|--------------|----------------|---------------------------|--------------|------------|--------------|

BT-LE 1M





BT-LE 2M



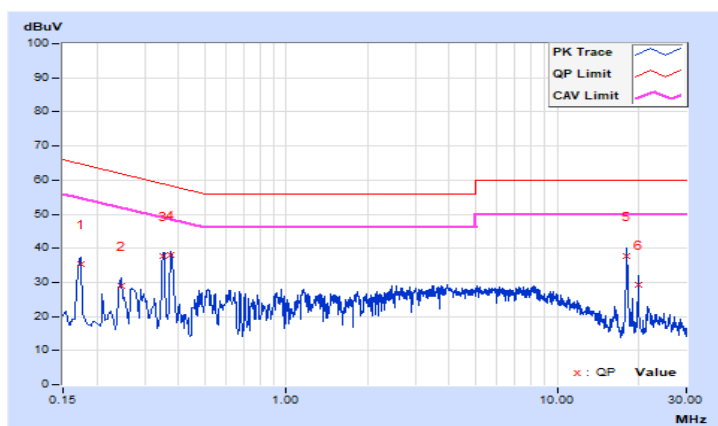
7.5 AC Power Conducted Emissions

| | | | |
|------------------------|------------------|---|---------------------------------------|
| RF Mode | TX BT-LE 2M | Channel | CH 0 : 2402 MHz |
| Frequency Range | 150 kHz ~ 30 MHz | Detector Function & Resolution Bandwidth | Quasi-Peak (QP) / Average (AV), 9 kHz |
| Input Power | 120 Vac, 60 Hz | Environmental Conditions | 25°C, 75% RH |
| Tested By | Rex Wang | Test Mode | A |

| 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 | 0.17384 | 10.14 | 25.08 | 8.31 | 35.22 | 18.45 | 64.77 | 54.77 | -29.55 | -36.32 |
| 2 | 0.24600 | 10.18 | 18.89 | 11.03 | 29.07 | 21.21 | 61.89 | 51.89 | -32.82 | -30.68 |
| 3 | 0.35035 | 10.22 | 27.65 | 26.75 | 37.87 | 36.97 | 58.95 | 48.95 | -21.08 | -11.98 |
| 4 | 0.37400 | 10.23 | 27.96 | 23.57 | 38.19 | 33.80 | 58.41 | 48.41 | -20.22 | -14.61 |
| 5 | 18.10200 | 10.58 | 27.08 | 21.21 | 37.66 | 31.79 | 60.00 | 50.00 | -22.34 | -18.21 |
| 6 | 19.91800 | 10.61 | 18.74 | 13.05 | 29.35 | 23.66 | 60.00 | 50.00 | -30.65 | -26.34 |

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

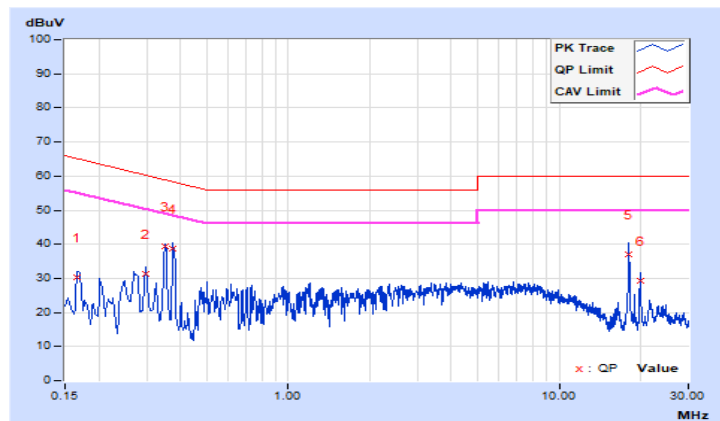


| | | | |
|-----------------|------------------|--|---------------------------------------|
| RF Mode | TX BT-LE 2M | Channel | CH 0 : 2402 MHz |
| Frequency Range | 150 kHz ~ 30 MHz | Detector Function & Resolution Bandwidth | Quasi-Peak (QP) / Average (AV), 9 kHz |
| Input Power | 120 Vac, 60 Hz | Environmental Conditions | 25°C, 75% RH |
| Tested By | Rex Wang | Test Mode | A |

| 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 | 0.16600 | 10.16 | 20.21 | 6.19 | 30.37 | 16.35 | 65.16 | 55.16 | -34.79 | -38.81 |
| 2 | 0.29800 | 10.22 | 20.99 | 17.15 | 31.21 | 27.37 | 60.30 | 50.30 | -29.09 | -22.93 |
| 3 | 0.35000 | 10.24 | 29.32 | 28.82 | 39.56 | 39.06 | 58.96 | 48.96 | -19.40 | -9.90 |
| 4 | 0.37400 | 10.25 | 28.55 | 25.53 | 38.80 | 35.78 | 58.41 | 48.41 | -19.61 | -12.63 |
| 5 | 18.09400 | 10.70 | 26.33 | 20.42 | 37.03 | 31.12 | 60.00 | 50.00 | -22.97 | -18.88 |
| 6 | 19.91800 | 10.75 | 18.62 | 12.87 | 29.37 | 23.62 | 60.00 | 50.00 | -30.63 | -26.38 |

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

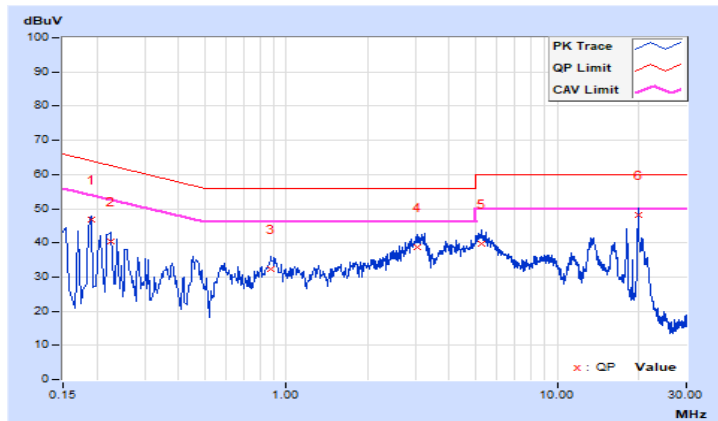


| | | | |
|------------------------|------------------|---|---------------------------------------|
| RF Mode | TX BT-LE 2M | Channel | CH 0 : 2402 MHz |
| Frequency Range | 150 kHz ~ 30 MHz | Detector Function & Resolution Bandwidth | Quasi-Peak (QP) / Average (AV), 9 kHz |
| Input Power | 120 Vac, 60 Hz | Environmental Conditions | 22°C, 72% RH |
| Tested By | Rex Wang | Test Mode | B |

| 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 | 0.19000 | 10.14 | 36.71 | 19.25 | 46.85 | 29.39 | 64.04 | 54.04 | -17.19 | -24.65 |
| 2 | 0.22446 | 10.14 | 30.23 | 14.19 | 40.37 | 24.33 | 62.65 | 52.65 | -22.28 | -28.32 |
| 3 | 0.87800 | 10.18 | 22.02 | 16.20 | 32.20 | 26.38 | 56.00 | 46.00 | -23.80 | -19.62 |
| 4 | 3.03800 | 10.24 | 28.64 | 19.41 | 38.88 | 29.65 | 56.00 | 46.00 | -17.12 | -16.35 |
| 5 | 5.25000 | 10.26 | 29.48 | 24.19 | 39.74 | 34.45 | 60.00 | 50.00 | -20.26 | -15.55 |
| 6 | 19.91400 | 10.40 | 37.87 | 32.14 | 48.27 | 42.54 | 60.00 | 50.00 | -11.73 | -7.46 |

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

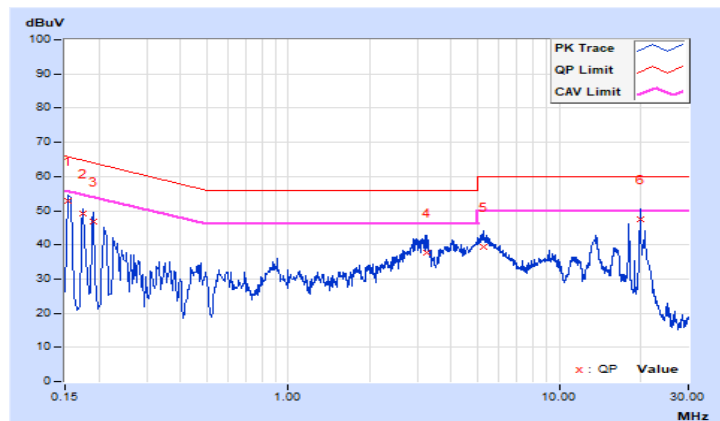


| | | | |
|------------------------|------------------|---|---------------------------------------|
| RF Mode | TX BT-LE 2M | Channel | CH 0 : 2402 MHz |
| Frequency Range | 150 kHz ~ 30 MHz | Detector Function & Resolution Bandwidth | Quasi-Peak (QP) / Average (AV), 9 kHz |
| Input Power | 120 Vac, 60 Hz | Environmental Conditions | 22°C, 72% RH |
| Tested By | Rex Wang | Test Mode | B |

| 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 | 0.15400 | 10.14 | 42.68 | 25.09 | 52.82 | 35.23 | 65.78 | 55.78 | -12.96 | -20.55 |
| 2 | 0.17400 | 10.14 | 39.01 | 21.21 | 49.15 | 31.35 | 64.77 | 54.77 | -15.62 | -23.42 |
| 3 | 0.19000 | 10.15 | 36.66 | 18.89 | 46.81 | 29.04 | 64.04 | 54.04 | -17.23 | -25.00 |
| 4 | 3.25800 | 10.26 | 27.53 | 17.32 | 37.79 | 27.58 | 56.00 | 46.00 | -18.21 | -18.42 |
| 5 | 5.24200 | 10.29 | 29.23 | 23.84 | 39.52 | 34.13 | 60.00 | 50.00 | -20.48 | -15.87 |
| 6 | 19.90600 | 10.55 | 36.95 | 31.19 | 47.50 | 41.74 | 60.00 | 50.00 | -12.50 | -8.26 |

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



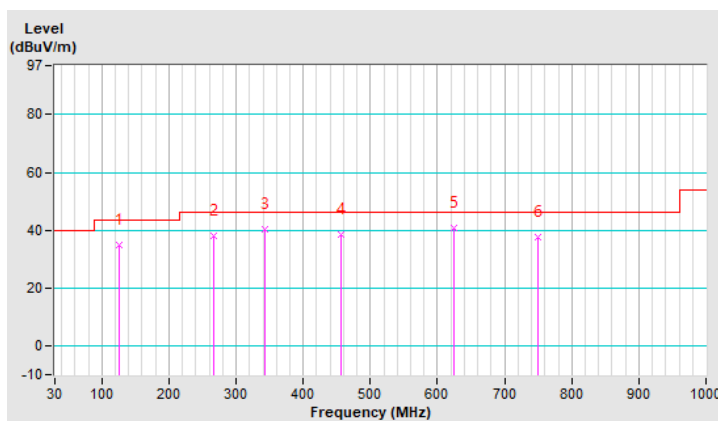
7.6 Unwanted Emissions below 1 GHz

| | | | |
|------------------------|----------------|--|------------------|
| RF Mode | TX BT-LE 2M | Channel | CH 0 : 2402 MHz |
| Frequency Range | 9 kHz ~ 1 GHz | Detector Function & Bandwidth | (QP) RB = 120kHz |
| Input Power | 120 Vac, 60 Hz | Environmental Conditions | 23°C, 67% RH |
| Tested By | Adair Peng | Test Mode | A |

| 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 | 125.06 | 35.1 QP | 43.5 | -8.4 | 1.99 H | 284 | 45.8 | -10.7 |
| 2 | 265.71 | 38.1 QP | 46.0 | -7.9 | 1.00 H | 207 | 46.3 | -8.2 |
| 3 | 343.31 | 40.5 QP | 46.0 | -5.5 | 1.00 H | 184 | 46.6 | -6.1 |
| 4 | 455.83 | 38.4 QP | 46.0 | -7.6 | 1.99 H | 158 | 41.7 | -3.3 |
| 5 | 624.61 | 40.8 QP | 46.0 | -5.2 | 1.99 H | 18 | 40.8 | 0.0 |
| 6 | 749.74 | 37.6 QP | 46.0 | -8.4 | 1.00 H | 74 | 35.3 | 2.3 |

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 emission levels were very low against the limit of frequency range 9 kHz ~ 30 MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.

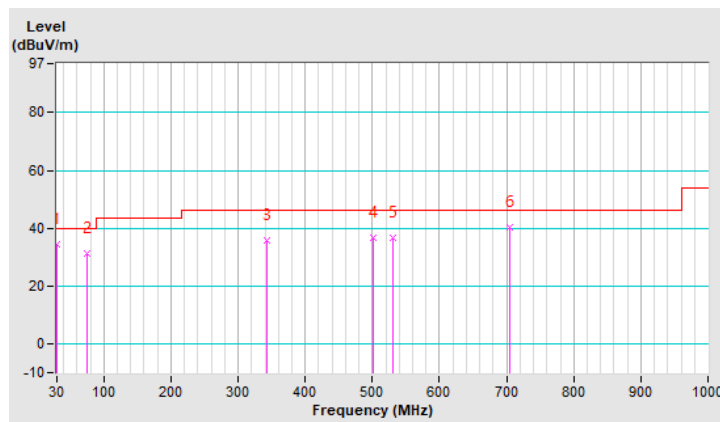


| | | | |
|------------------------|----------------|--|------------------|
| RF Mode | TX BT-LE 2M | Channel | CH 0 : 2402 MHz |
| Frequency Range | 9 kHz ~ 1 GHz | Detector Function & Bandwidth | (QP) RB = 120kHz |
| Input Power | 120 Vac, 60 Hz | Environmental Conditions | 23°C, 67% RH |
| Tested By | Adair Peng | Test Mode | A |

| 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 | 30.00 | 34.3 QP | 40.0 | -5.7 | 1.01 V | 282 | 44.5 | -10.2 |
| 2 | 74.62 | 31.3 QP | 40.0 | -8.7 | 1.01 V | 328 | 43.5 | -12.2 |
| 3 | 343.31 | 36.0 QP | 46.0 | -10.0 | 2.00 V | 99 | 42.1 | -6.1 |
| 4 | 500.45 | 36.8 QP | 46.0 | -9.2 | 1.01 V | 269 | 39.3 | -2.5 |
| 5 | 530.52 | 36.5 QP | 46.0 | -9.5 | 1.01 V | 18 | 38.4 | -1.9 |
| 6 | 705.12 | 40.4 QP | 46.0 | -5.6 | 1.01 V | 189 | 39.4 | 1.0 |

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 emission levels were very low against the limit of frequency range 9 kHz ~ 30 MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.

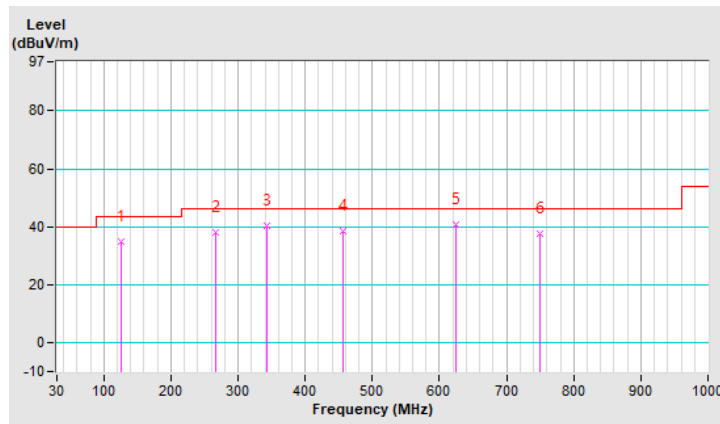


| | | | |
|------------------------|----------------|--|------------------|
| RF Mode | TX BT-LE 2M | Channel | CH 0 : 2402 MHz |
| Frequency Range | 9 kHz ~ 1 GHz | Detector Function & Bandwidth | (QP) RB = 120kHz |
| Input Power | 120 Vac, 60 Hz | Environmental Conditions | 23°C, 72% RH |
| Tested By | Vincent Chen | Test Mode | B |

| 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 | 125.06 | 35.05 QP | 43.50 | -8.45 | 1.99 H | 284 | 48.96 | -13.91 |
| 2 | 265.71 | 38.08 QP | 46.00 | -7.92 | 1.00 H | 207 | 51.87 | -13.79 |
| 3 | 343.31 | 40.52 QP | 46.00 | -5.48 | 1.00 H | 184 | 51.05 | -10.53 |
| 4 | 455.83 | 38.38 QP | 46.00 | -7.62 | 1.99 H | 158 | 45.54 | -7.16 |
| 5 | 624.61 | 40.83 QP | 46.00 | -5.17 | 1.99 H | 18 | 43.69 | -2.86 |
| 6 | 749.74 | 37.62 QP | 46.00 | -8.38 | 1.00 H | 74 | 38.12 | -0.50 |

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 emission levels were very low against the limit of frequency range 9 kHz ~ 30 MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.

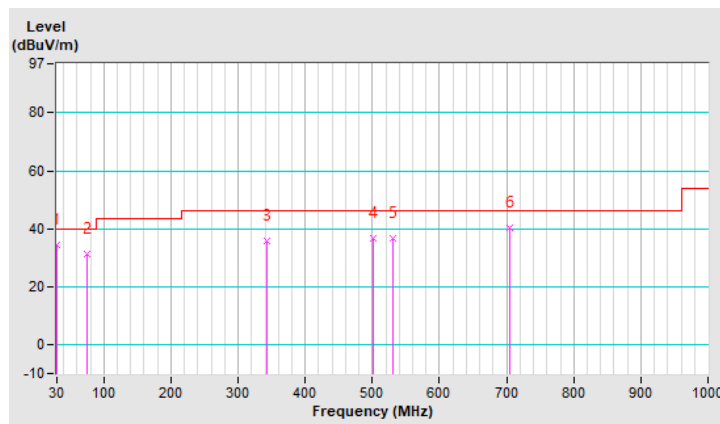


| | | | |
|------------------------|----------------|--|------------------|
| RF Mode | TX BT-LE 2M | Channel | CH 0 : 2402 MHz |
| Frequency Range | 9 kHz ~ 1 GHz | Detector Function & Bandwidth | (QP) RB = 120kHz |
| Input Power | 120 Vac, 60 Hz | Environmental Conditions | 23°C, 72% RH |
| Tested By | Vincent Chen | Test Mode | B |

| 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 | 30.00 | 34.29 QP | 40.00 | -5.71 | 1.01 V | 282 | 48.27 | -13.98 |
| 2 | 74.62 | 31.27 QP | 40.00 | -8.73 | 1.01 V | 328 | 47.31 | -16.04 |
| 3 | 343.31 | 35.98 QP | 46.00 | -10.02 | 2.00 V | 99 | 46.51 | -10.53 |
| 4 | 500.45 | 36.82 QP | 46.00 | -9.18 | 1.01 V | 269 | 42.90 | -6.08 |
| 5 | 530.52 | 36.52 QP | 46.00 | -9.48 | 1.01 V | 18 | 42.17 | -5.65 |
| 6 | 705.12 | 40.42 QP | 46.00 | -5.58 | 1.01 V | 189 | 42.28 | -1.86 |

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 emission levels were very low against the limit of frequency range 9 kHz ~ 30 MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.



7.7 Unwanted Emissions above 1 GHz

| | | | |
|------------------------|----------------|--|--|
| RF Mode | TX BT-LE 1M | Channel | CH 0 : 2402 MHz |
| Frequency Range | 1 GHz ~ 25 GHz | Detector Function & Bandwidth | (PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 1 kHz |
| Input Power | 120 Vac, 60 Hz | Environmental Conditions | 23°C, 67% RH |
| Tested By | Adair Peng | | |

| 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 | 2390.00 | 58.2 PK | 74.0 | -15.8 | 2.08 H | 156 | 25.4 | 32.8 |
| 2 | 2390.00 | 45.3 AV | 54.0 | -8.7 | 2.08 H | 156 | 12.5 | 32.8 |
| 3 | *2402.00 | 101.4 PK | | | 2.08 H | 156 | 68.6 | 32.8 |
| 4 | *2402.00 | 100.3 AV | | | 2.08 H | 156 | 67.5 | 32.8 |
| 5 | 4804.00 | 48.3 PK | 74.0 | -25.7 | 2.23 H | 149 | 42.5 | 5.8 |
| 6 | 4804.00 | 36.8 AV | 54.0 | -17.2 | 2.23 H | 149 | 31.0 | 5.8 |
| 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 | 2390.00 | 58.0 PK | 74.0 | -16.0 | 3.13 V | 86 | 25.2 | 32.8 |
| 2 | 2390.00 | 45.2 AV | 54.0 | -8.8 | 3.13 V | 86 | 12.4 | 32.8 |
| 3 | *2402.00 | 98.5 PK | | | 3.13 V | 86 | 65.7 | 32.8 |
| 4 | *2402.00 | 97.4 AV | | | 3.13 V | 86 | 64.6 | 32.8 |
| 5 | 4804.00 | 46.9 PK | 74.0 | -27.1 | 3.08 V | 80 | 41.1 | 5.8 |
| 6 | 4804.00 | 36.3 AV | 54.0 | -17.7 | 3.08 V | 80 | 30.5 | 5.8 |

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.
5. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.



| | | | |
|------------------------|----------------|--|--|
| RF Mode | TX BT-LE 1M | Channel | CH 19 : 2440 MHz |
| Frequency Range | 1 GHz ~ 25 GHz | Detector Function & Bandwidth | (PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 1 kHz |
| Input Power | 120 Vac, 60 Hz | Environmental Conditions | 23°C, 67% RH |
| Tested By | Adair Peng | | |

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 | *2440.00 | 100.8 PK | | | 1.78 H | 149 | 68.0 | 32.8 |
| 2 | *2440.00 | 99.9 AV | | | 1.78 H | 149 | 67.1 | 32.8 |
| 3 | 4880.00 | 47.5 PK | 74.0 | -26.5 | 2.02 H | 153 | 42.0 | 5.5 |
| 4 | 4880.00 | 36.2 AV | 54.0 | -17.8 | 2.02 H | 153 | 30.7 | 5.5 |

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 | *2440.00 | 98.1 PK | | | 3.16 V | 86 | 65.3 | 32.8 |
| 2 | *2440.00 | 97.2 AV | | | 3.16 V | 86 | 64.4 | 32.8 |
| 3 | 4880.00 | 47.2 PK | 74.0 | -26.8 | 3.00 V | 80 | 41.7 | 5.5 |
| 4 | 4880.00 | 35.7 AV | 54.0 | -18.3 | 3.00 V | 80 | 30.2 | 5.5 |

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.
5. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.



| | | | |
|------------------------|----------------|--|--|
| RF Mode | TX BT-LE 1M | Channel | CH 39 : 2480 MHz |
| Frequency Range | 1 GHz ~ 25 GHz | Detector Function & Bandwidth | (PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 1 kHz |
| Input Power | 120 Vac, 60 Hz | Environmental Conditions | 23°C, 67% RH |
| Tested By | Adair Peng | | |

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 | *2480.00 | 101.1 PK | | | 2.88 H | 147 | 68.2 | 32.9 |
| 2 | *2480.00 | 100.2 AV | | | 2.88 H | 147 | 67.3 | 32.9 |
| 3 | 2483.50 | 57.6 PK | 74.0 | -16.4 | 2.88 H | 147 | 24.7 | 32.9 |
| 4 | 2483.50 | 47.5 AV | 54.0 | -6.5 | 2.88 H | 147 | 14.6 | 32.9 |
| 5 | 4960.00 | 47.9 PK | 74.0 | -26.1 | 2.50 H | 152 | 42.2 | 5.7 |
| 6 | 4960.00 | 36.5 AV | 54.0 | -17.5 | 2.50 H | 152 | 30.8 | 5.7 |

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 | *2480.00 | 98.4 PK | | | 3.12 V | 88 | 65.5 | 32.9 |
| 2 | *2480.00 | 97.3 AV | | | 3.12 V | 88 | 64.4 | 32.9 |
| 3 | 2483.50 | 57.4 PK | 74.0 | -16.6 | 3.12 V | 88 | 24.5 | 32.9 |
| 4 | 2483.50 | 47.4 AV | 54.0 | -6.6 | 3.12 V | 88 | 14.5 | 32.9 |
| 5 | 4960.00 | 46.9 PK | 74.0 | -27.1 | 3.00 V | 80 | 41.2 | 5.7 |
| 6 | 4960.00 | 35.8 AV | 54.0 | -18.2 | 3.00 V | 80 | 30.1 | 5.7 |

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.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.



| | | | |
|------------------------|----------------|--|--|
| RF Mode | TX BT-LE 2M | Channel | CH 0 : 2402 MHz |
| Frequency Range | 1 GHz ~ 25 GHz | Detector Function & Bandwidth | (PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 5 kHz |
| Input Power | 120 Vac, 60 Hz | Environmental Conditions | 23°C, 67% RH |
| Tested By | Adair Peng | | |

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 | 2390.00 | 57.8 PK | 74.0 | -16.2 | 2.22 H | 142 | 25.0 | 32.8 |
| 2 | 2390.00 | 46.1 AV | 54.0 | -7.9 | 2.22 H | 142 | 13.3 | 32.8 |
| 3 | *2402.00 | 100.7 PK | | | 2.22 H | 142 | 67.9 | 32.8 |
| 4 | *2402.00 | 97.8 AV | | | 2.22 H | 142 | 65.0 | 32.8 |
| 5 | 4804.00 | 47.9 PK | 74.0 | -26.1 | 2.42 H | 150 | 42.1 | 5.8 |
| 6 | 4804.00 | 36.0 AV | 54.0 | -18.0 | 2.42 H | 150 | 30.2 | 5.8 |

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 | 2390.00 | 57.6 PK | 74.0 | -16.4 | 3.18 V | 88 | 24.8 | 32.8 |
| 2 | 2390.00 | 46.0 AV | 54.0 | -8.0 | 3.18 V | 88 | 13.2 | 32.8 |
| 3 | *2402.00 | 98.0 PK | | | 3.18 V | 88 | 65.2 | 32.8 |
| 4 | *2402.00 | 95.0 AV | | | 3.18 V | 88 | 62.2 | 32.8 |
| 5 | 4804.00 | 47.4 PK | 74.0 | -26.6 | 3.07 V | 80 | 41.6 | 5.8 |
| 6 | 4804.00 | 35.3 AV | 54.0 | -18.7 | 3.07 V | 80 | 29.5 | 5.8 |

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.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.



| | | | |
|------------------------|----------------|--|--|
| RF Mode | TX BT-LE 2M | Channel | CH 19 : 2440 MHz |
| Frequency Range | 1 GHz ~ 25 GHz | Detector Function & Bandwidth | (PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 5 kHz |
| Input Power | 120 Vac, 60 Hz | Environmental Conditions | 23°C, 67% RH |
| Tested By | Adair Peng | | |

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 | *2440.00 | 101.1 PK | | | 1.76 H | 152 | 68.3 | 32.8 |
| 2 | *2440.00 | 98.2 AV | | | 1.76 H | 152 | 65.4 | 32.8 |
| 3 | 4880.00 | 47.8 PK | 74.0 | -26.2 | 2.00 H | 148 | 42.3 | 5.5 |
| 4 | 4880.00 | 35.9 AV | 54.0 | -18.1 | 2.00 H | 148 | 30.4 | 5.5 |

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 | *2440.00 | 98.3 PK | | | 3.05 V | 82 | 65.5 | 32.8 |
| 2 | *2440.00 | 93.4 AV | | | 3.05 V | 82 | 60.6 | 32.8 |
| 3 | 4880.00 | 47.1 PK | 74.0 | -26.9 | 2.97 V | 80 | 41.6 | 5.5 |
| 4 | 4880.00 | 35.3 AV | 54.0 | -18.7 | 2.97 V | 80 | 29.8 | 5.5 |

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.
5. " * " : Fundamental frequency, the limit was restricted at the RF Output Power.

| | | | |
|------------------------|----------------|--|--|
| RF Mode | TX BT-LE 2M | Channel | CH 39 : 2480 MHz |
| Frequency Range | 1 GHz ~ 25 GHz | Detector Function & Bandwidth | (PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 5 kHz |
| Input Power | 120 Vac, 60 Hz | Environmental Conditions | 23°C, 67% RH |
| Tested By | Adair Peng | | |

Antenna Polarity & Test Distance : Horizontal at 3 m

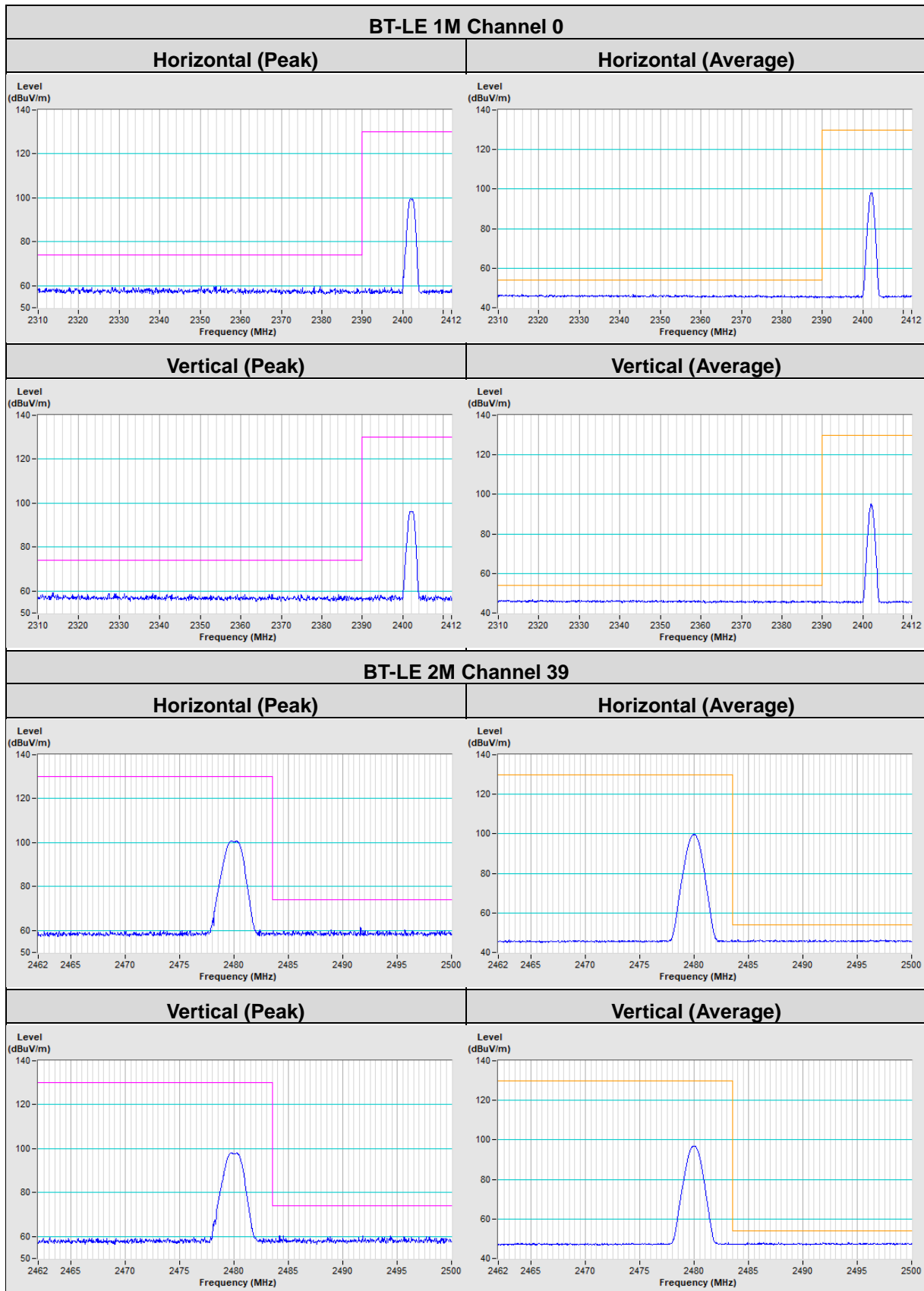
| No | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
|----------|-----------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| 1 | *2480.00 | 100.4 PK | | | 2.16 H | 149 | 67.5 | 32.9 |
| 2 | *2480.00 | 97.7 AV | | | 2.16 H | 149 | 64.8 | 32.9 |
| 3 | 2483.50 | 58.2 PK | 74.0 | -15.8 | 2.16 H | 149 | 25.3 | 32.9 |
| 4 | 2483.50 | 48.0 AV | 54.0 | -6.0 | 2.16 H | 149 | 15.1 | 32.9 |
| 5 | 4960.00 | 47.8 PK | 74.0 | -26.2 | 2.28 H | 153 | 42.1 | 5.7 |
| 6 | 4960.00 | 36.0 AV | 54.0 | -18.0 | 2.28 H | 153 | 30.3 | 5.7 |

Antenna Polarity & Test Distance : Vertical at 3 m

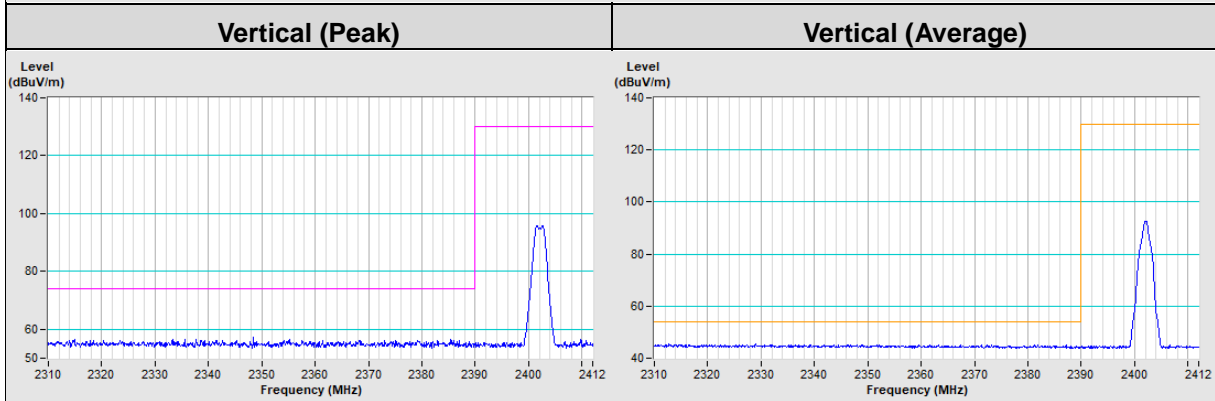
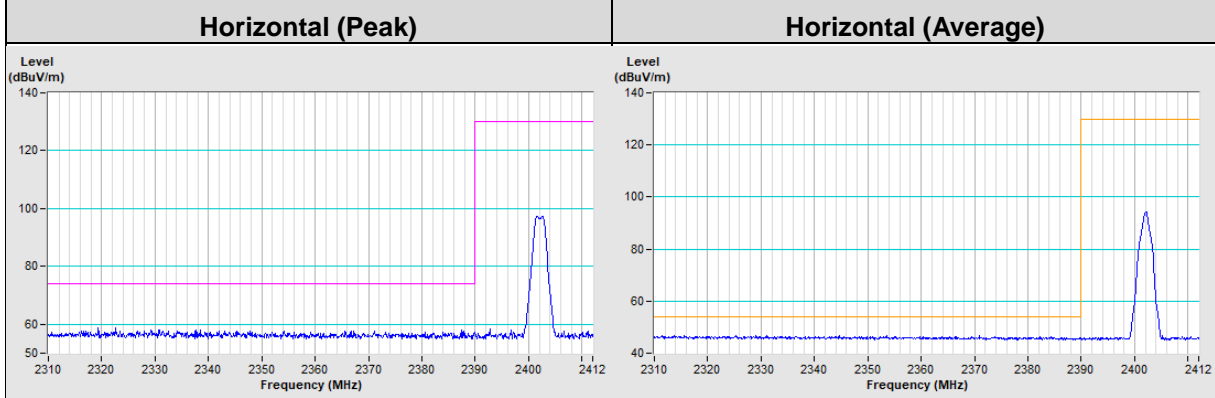
| No | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
|----|-----------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| 1 | *2480.00 | 97.0 PK | | | 3.13 V | 89 | 64.1 | 32.9 |
| 2 | *2480.00 | 95.0 AV | | | 3.13 V | 89 | 62.1 | 32.9 |
| 3 | 2483.50 | 58.1 PK | 74.0 | -15.9 | 3.13 V | 89 | 25.2 | 32.9 |
| 4 | 2483.50 | 47.9 AV | 54.0 | -6.1 | 3.13 V | 89 | 15.0 | 32.9 |
| 5 | 4960.00 | 47.2 PK | 74.0 | -26.8 | 2.94 V | 80 | 41.5 | 5.7 |
| 6 | 4960.00 | 35.4 AV | 54.0 | -18.6 | 2.94 V | 80 | 29.7 | 5.7 |

Remarks:

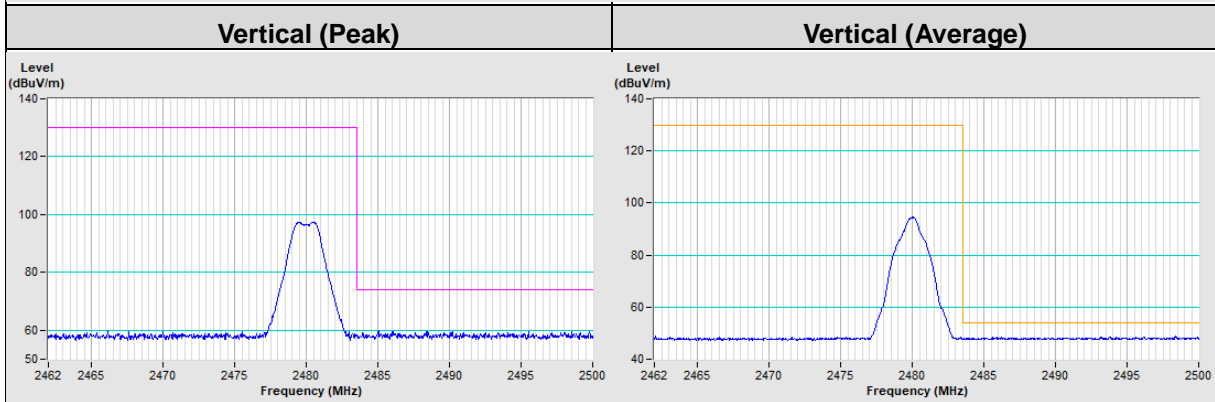
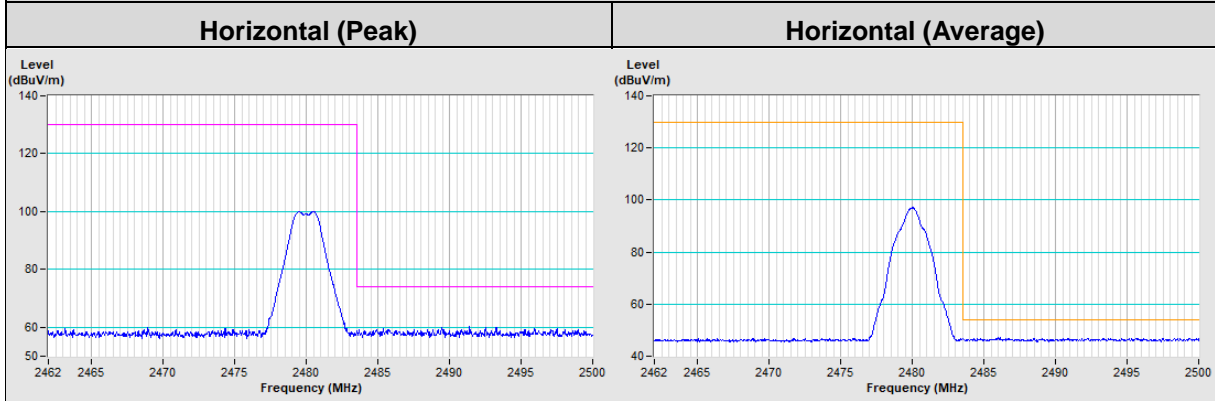
1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * ": Fundamental frequency, the limit was restricted at the RF Output Power.



BT-LE 2M Channel 0



BT-LE 2M Channel 39



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:

Lin Kou EMC/RF Lab

Tel: 886-2-26052180

Fax: 886-2-26051924

Hsin Chu EMC/RF/Telecom Lab

Tel: 886-3-6668565

Fax: 886-3-6668323

Hwa Ya EMC/RF/Safety Lab

Tel: 886-3-3183232

Fax: 886-3-3270892

Email: service.adt@bureauveritas.com

Web Site: <http://ee.bureauveritas.com.tw>

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

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