

FCC Test Report (Zigbee)

Report No.: RFBEIH-WTW-P21010437

FCC ID: P27-XBBL

Test Model: XBBL-SC

Received Date: Jan. 15, 2021

Test Date: Jan. 27 to Feb. 4, 2021

Issued Date: Feb. 5, 2021

Applicant: Sercomm Corp.

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

Lin Kou Laboratories

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FCC Registration /

Designation Number: 198487 / TW2021





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Release Control Record

| Issue No. | Description | Date Issued |
|----------------------|-------------------|--------------|
| RFBEIH-WTW-P21010437 | Original release. | Feb. 5, 2021 |



1 Certificate of Conformity

Product: Battery backup device

Brand: Xfinity

Test Model: XBBL-SC

Sample Status: Engineering sample

Applicant: Sercomm Corp.

Test Date: Jan. 27 to Feb. 4, 2021

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

ANSI C63.10: 2013

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.

Prepared by: ______, Date: ______, Feb. 5, 2021

Annie Chang / Senior Specialist

Rex Lai / Associate Technical Manager



2 **Summary of Test Results**

| 47 CFR FCC Part 15, Subpart C (Section 15.247) | | | | | |
|--|---|--------|---|--|--|
| FCC Clause | Test Item | Result | Remarks | | |
| 15.207 | 7 AC Power Conducted Emission | | Meet the requirement of limit. Minimum passing margin is -30.98dB at 0.68906MHz. | | |
| 15.205 / 15.209 / 15.247(d) | Radiated Emissions and Band Edge Measurement | Pass | Meet the requirement of limit. Minimum passing margin is -7.92dB at 2483.50MHz. | | |
| 15.247(d) | Antenna Port Emission | Pass | Meet the requirement of limit. | | |
| 15.247(a)(2) | 6dB bandwidth | Pass | Meet the requirement of limit. | | |
| 15.247(b) | Conducted power | Pass | Meet the requirement of limit. | | |
| 15.247(e) | Power Spectral Density | Pass | Meet the requirement of limit. | | |
| 15.203 | Antenna Requirement | Pass | Antenna connector is I-PEX not a standard connector. | | |

Note:

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

 2. For 2.4GHz band compliance with rule 15.247(d) of the band-edge items, the test plots were recorded in Annex A. Test Procedures refer to report 4.1.3.

Measurement Uncertainty 2.1

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

| Measurement | Frequency | Expanded Uncertainty (k=2) (±) |
|------------------------------------|----------------|--------------------------------|
| Conducted Emissions at mains ports | 150kHz ~ 30MHz | 3.00 dB |
| Conducted Emissions | 9kHz ~ 40GHz | 2.63 dB |
| Dadioted Emissions up to 1 CHz | 9kHz ~ 30MHz | 2.61 dB |
| Radiated Emissions up to 1 GHz | 30MHz ~ 1GHz | 5.43 dB |
| Radiated Emissions above 1 GHz | Above 1GHz | 5.42 dB |

2.2 **Modification Record**

There were no modifications required for compliance.



3 General Information

3.1 General Description of EUT

| Product | Battery backup device |
|---------------------|---|
| Brand | Xfinity |
| Test Model | XBBL-SC |
| Status of EUT | Engineering sample |
| Power Supply Rating | 12Vdc from adapter or 6Vdc from battery |
| Modulation Type | OQPSK |
| Transfer Rate | 250Kbps |
| Operating Frequency | 2405 ~ 2480MHz |
| Number of Channel | 16 |
| Output Power | 10.520mW |
| Antenna Type | Chip Antenna with 2dBi gain |
| Antenna Connector | I-PEX |
| Accessory Device | N/A |
| Data Cable Supplied | N/A |

Note:

1. The EUT uses following adapter or battery.

| Item | Brand | Model No. | Specification |
|--------------------------------|-----------|----------------|--|
| Adapter (Support unit only) | Xfinity | NBC56A120460VU | AC I/P: 100-120V, 1.5A, 50/60Hz DC O/P: 12V, 4.6A AC 2 Pin Non-shielded DC cable (2m) |
| Battery | Energizer | EN529 | DC 6V |

- 2. The EUT was pre-tested with the following modes:
 - ♦ Operating Mode (EUT + Battery)
 - Operating + Charging Mode (EUT + Adapter)
 The worst emission level was found when the EUT tested under Operating + Charging Mode (EUT + Adapter), therefore, only its test data was recorded in this report.
- 3. The above Antenna information is declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications, the laboratory shall not be held responsible.
- 4. 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 Description of Test Modes

16 channels are provided to this EUT:

| CHANNEL | FREQUENCY | CHANNEL | FREQUENCY |
|---------|-----------|---------|-----------|
| 11 | 2405MHz | 19 | 2445MHz |
| 12 | 2410MHz | 20 | 2450MHz |
| 13 | 2415MHz | 21 | 2455MHz |
| 14 | 2420MHz | 22 | 2460MHz |
| 15 | 2425MHz | 23 | 2465MHz |
| 16 | 2430MHz | 24 | 2470MHz |
| 17 | 2435MHz | 25 | 2475MHz |
| 18 | 2440MHz | 26 | 2480MHz |



3.2.1 Test Mode Applicability and Tested Channel Detail

| EUT Configure | gure Applicable To | | | | Description | |
|---------------|--------------------|-------|-----|------|---|--|
| Mode | RE≥1G | RE<1G | PLC | APCM | Description | |
| - | V | V | V | V | Operating + Charging Mode (EUT + Adapter) | |

Where

RE≥1G: Radiated Emission above 1GHz & Bandedge Measurement RE<1G: Radiated Emission below 1GHz

PLC: Power Line Conducted Emission APCM: Antenna Port Conducted Measurement

NOTE: The EUT had been pre-tested on the positioned of each 3 axis. The worst case was found when positioned on X-plane.

Radiated Emission Test (Above 1GHz):

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.

| EUT Configure Mode | Available Channel | Tested Channel | Modulation Type | Data Rate (Kbps) |
|---------------------------|-------------------|----------------|-----------------|------------------|
| - | 11 to 26 | 11, 18, 26 | OQPSK | 250 |

Radiated Emission Test (Below 1GHz):

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.

| EUT Configure Mode | Available Channel | Tested Channel | Modulation Type | Data Rate (Kbps) |
|---------------------------|-------------------|----------------|-----------------|------------------|
| - | 11 to 26 | 26 | OQPSK | 250 |

Power Line Conducted Emission Test:

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.

| EUT Configure Mode | Available Channel | Tested Channel | Modulation Type | Data Rate (Kbps) |
|--------------------|-------------------|----------------|-----------------|------------------|
| - | 11 to 26 | 26 | OQPSK | 250 |

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Antenna Port Conducted Measurement:

- This item includes all test value of each mode, but only includes spectrum plot of worst value of each mode.
- 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.

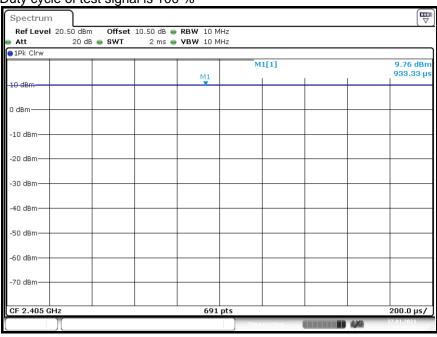
| EUT Configure Mode | Available Channel | Tested Channel | Modulation Type | Data Rate (Kbps) |
|--------------------|-------------------|----------------|-----------------|------------------|
| - | 11 to 26 | 11, 18, 26 | OQPSK | 250 |

Test Condition:

| Applicable To | Applicable To Environmental Conditions | | Tested By |
|---------------|--|------------------------|-------------|
| RE≥1G | 15deg. C, 76%RH | 120Vac, 60Hz (Adapter) | Dalen Dai |
| RE<1G | 15deg. C, 76%RH | 120Vac, 60Hz (Adapter) | Dalen Dai |
| PLC | PLC 25deg. C, 75%RH | | Dalen Dai |
| APCM | 25deg. C, 76%RH | 120Vac, 60Hz (Adapter) | Pirar Hsieh |

3.3 Duty Cycle of Test Signal

Duty cycle of test signal is 100 %





3.4 Description of Support Units

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

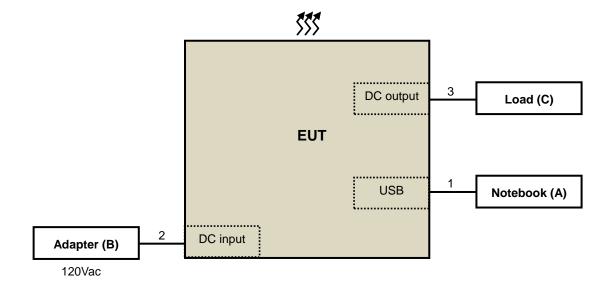
| 10 | D | Product | Brand | Model No. | Serial No. | FCC ID | Remarks |
|----|----|-------------|---------|----------------|------------|--------|--------------------|
| Α | ١. | Notebook PC | DELL | E5410 | BW33YM1 | NA | Provided by Lab |
| В | 3. | AC Adapter | Xfinity | NBC56A120460VU | N/A | N/A | Supplied by client |
| С | | DUMMY LOAD | BVADT | L19B | L2-010026 | N/A | Provided by Lab |

Note: All power cords of the above support units are non-shielded (1.8m).

| ID | Cable Descriptions | Qty. | Length (m) | Shielding (Yes/ No) | Cores (Qty.) | Remarks |
|----|--------------------|------|------------|---------------------|--------------|--------------------|
| 1. | USB cable | 1 | 0.3 | Υ | 0 | Supplied by client |
| 2. | DC cable | 1 | 2.0 | N | 0 | Supplied by client |
| 3. | DC cable | 1 | 1.8 | N | 0 | Supplied by client |

Note: The core(s) is(are) originally attached to the cable(s).

3.4.1 Configuration of System under Test



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3.5 General Description of Applied Standards and References

The EUT is a RF Product. According to the specifications of the manufacturer, it must comply with the requirements of the following standards and references:

Test standard: FCC Part 15, Subpart C (15.247) ANSI C63.10-2013

All test items have been performed and recorded as per the above standards.

References Test Guidance: KDB 558074 D01 15.247 Meas Guidance v05r02

All test items have been performed as a reference to the above KDB test guidance.



4 Test Types and Results

4.1 Radiated Emission and Bandedge Measurement

4.1.1 Limits of Radiated Emission and Bandedge Measurement

Radiated emissions which fall in the restricted bands must comply with the radiated emission limits specified as below table. Other emissions shall be at least 20dB 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 |

NOTE:

- 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 1000MHz, 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 20dB under any condition of modulation.



4.1.2 Test Instruments

| DESCRIPTION & MANUFACTURER | MODEL NO. | SERIAL NO. | CALIBRATED DATE | CALIBRATED UNTIL |
|--|----------------------|--------------|--------------------|---------------------|
| HP Preamplifier | 8447D | 2432A03504 | Feb. 19, 2020 | Feb. 18, 2021 |
| HP Preamplifier | 8449B | 3008A01201 | Feb. 20, 2020 | Feb. 19, 2021 |
| MITEQ Preamplifier | AMF-6F-260400-33-8P | 892164 | Feb. 19, 2020 | Feb. 18, 2021 |
| Agilent TEST RECEIVER | N9038A | MY51210129 | Mar. 18, 2020 | Mar. 17, 2021 |
| Schwarzbeck Antenna | VULB 9168 | 139 | Nov. 6, 2020 | Nov. 5, 2021 |
| Schwarzbeck Antenna | VHBA 9123 | 480 | Jun. 3, 2019 | Jun. 2, 2021 |
| Schwarzbeck Horn Antenna | BBHA-9170 | 212 | Nov. 22, 2020 | Nov. 21, 2021 |
| EMCO Horn Antenna | 3115 | 00027024 | Nov. 22, 2020 | Nov.21, 2021 |
| ADT. Turn Table | TT100 | 0306 | NA | NA |
| ADT. Tower | AT100 | 0306 | NA | NA |
| Software | Radiated_V7.6.15.9.5 | NA | NA | NA |
| SUHNER RF cable With 4dB PAD | SF102 | Cable-CH6-01 | Jul. 9, 2020 | Jul. 8, 2021 |
| EMEC RF cable With 3/4dB PAD | EM102-KMKM | 01 | Aug. 21, 2020 | Aug. 20, 2021 |
| KEYSIGHT MIMO Powermeasurement Test set | U2021XA | U2021XA-001 | Jun. 16, 2020 | Jun. 15, 2021 |
| KEYSIGHT Spectrum Analyzer | N9030A | MY54490260 | Jul. 22, 2020 | Jul. 21, 2021 |
| Loop Antenna EMCI | LPA600 | 270 | Aug. 23, 2019 | Aug. 22, 2021 |
| EMCO Horn Antenna | 3115 | 00028257 | Nov. 22, 2020 | Nov. 21, 2021 |
| Highpass filter Wainwright Instruments | WHK 3.1/18G-10SS | SN 8 | NA | NA |
| ROHDE & SCHWARZ Spectrum Analyzer | FSV40 | 101042 | Sep. 8, 2020 | Sep. 7, 2021 |
| Anritsu Power Sensor | MA2411B | 0738404 | Apr. 13, 2020 | Apr. 12, 2021 |
| Anritsu Power Meter | ML2495A | 0842014 | Apr. 13, 2020 | Apr. 12, 2021 |

NOTE: 1. The calibration interval of the above test instruments is 12/24 months. And the calibrations are traceable to NML/ROC and NIST/USA.

- 2. The horn antenna and HP preamplifier (model: 8449B) are used only for the measurement of emission frequency above 1GHz if tested.
- 3. The test was performed in Chamber No. 6.



4.1.3 Test Procedures

For Radiated emission below 30MHz

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter chamber room. 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.

NOTE:

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 9kHz at frequency below 30MHz.

For Radiated emission above 30MHz

- a. The EUT was placed on the top of a rotating table 0.8 meters (for 30MHz ~ 1GHz) / 1.5 meters (for above 1GHz) 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.
- f. 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.

Note:

- The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Quasipeak detection (QP) at frequency below 1GHz.
- 2. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz for Peak detection (PK) at frequency above 1GHz.
- 3. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is ≥ 1/T (Duty cycle < 98%) or 10Hz (Duty cycle ≥ 98%) for Average detection (AV) at frequency above 1GHz. (RBW = 1MHz, VBW = 10Hz)
- 4. All modes of operation were investigated and the worst-case emissions are reported.

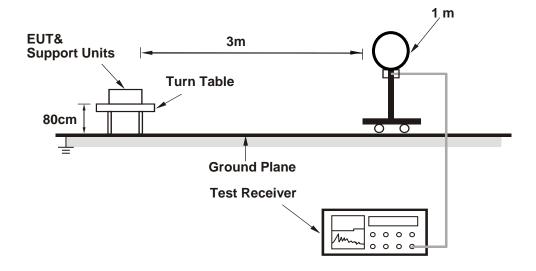
4.1.4 Deviation from Test Standard

No deviation.

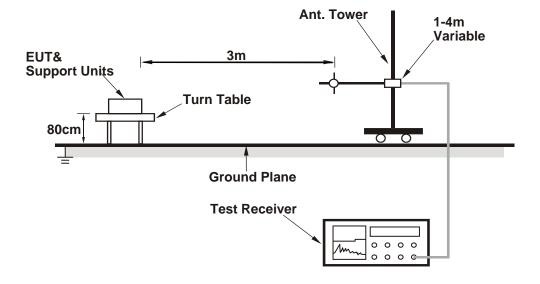


4.1.5 Test Setup

For Radiated emission below 30MHz

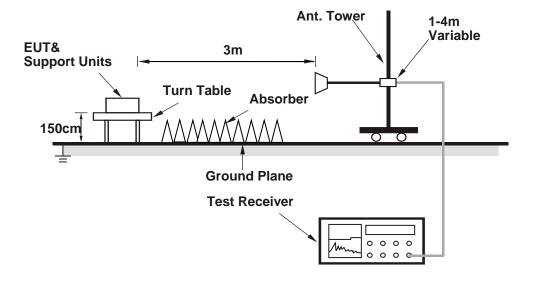


For Radiated emission 30MHz to 1GHz





For Radiated emission above 1GHz



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

4.1.6 EUT Operating Conditions

Set the EUT under transmission condition continuously at specific channel frequency.



4.1.7 Test Results

ABOVE 1GHz DATA

| RF Mode | TX Zigbee | Channel | CH 11: 2405 MHz |
|-----------------|--------------|-------------------|-----------------|
| Eroguenov Bongo | 10U- 250U- | Detector Function | Peak (PK) |
| Frequency Range | 1GHz ~ 25GHz | Detector Function | Average (AV) |

| | 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 | 46.81 PK | 74.00 | -27.19 | 1.15 H | 239 | 45.46 | 1.35 | |
| 2 | 2390.00 | 34.82 AV | 54.00 | -19.18 | 1.15 H | 239 | 33.47 | 1.35 | |
| 3 | *2405.00 | 98.19 PK | | | 1.15 H | 239 | 96.77 | 1.42 | |
| 4 | *2405.00 | 95.00 AV | | | 1.15 H | 239 | 93.58 | 1.42 | |
| 5 | 4810.00 | 50.07 PK | 74.00 | -23.93 | 1.44 H | 186 | 40.67 | 9.40 | |
| 6 | 4810.00 | 39.81 AV | 54.00 | -14.19 | 1.44 H | 186 | 30.41 | 9.40 | |
| | | Ante | enna Polarit | y & Test Di | stance : Ver | tical 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 | 51.36 PK | 74.00 | -22.64 | 2.47 V | 105 | 50.01 | 1.35 | |
| 2 | 2390.00 | 40.44 AV | 54.00 | -13.56 | 2.47 V | 105 | 39.09 | 1.35 | |
| 3 | *2405.00 | 98.40 PK | | | 2.47 V | 105 | 96.98 | 1.42 | |
| 4 | *2405.00 | 95.21 AV | | | 2.47 V | 105 | 93.79 | 1.42 | |
| 5 | 4810.00 | 50.93 PK | 74.00 | -23.07 | 1.98 V | 20 | 41.53 | 9.40 | |
| 6 | 4810.00 | 40.62 AV | 54.00 | -13.38 | 1.98 V | 20 | 31.22 | 9.40 | |

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.



| RF Mode | TX Zigbee | Channel | CH 18: 2440 MHz |
|-----------------|--------------|-------------------|-----------------|
| Fraguency Bango | 10Uz 250Uz | Detector Function | Peak (PK) |
| Frequency Range | 1GHz ~ 25GHz | Detector Function | Average (AV) |

| | 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 | 98.52 PK | | | 1.17 H | 241 | 96.97 | 1.55 | | |
| 2 | *2440.00 | 95.33 AV | | | 1.17 H | 241 | 93.78 | 1.55 | | |
| 3 | 4880.00 | 50.15 PK | 74.00 | -23.85 | 1.39 H | 192 | 40.63 | 9.52 | | |
| 4 | 4880.00 | 40.03 AV | 54.00 | -13.97 | 1.39 H | 192 | 30.51 | 9.52 | | |
| | | Ante | enna Polarit | v & Test Di | stance : Ver | tical at 3 m | | | | |

| | 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 | 98.78 PK | | | 3.60 V | 125 | 97.23 | 1.55 | | |
| 2 | *2440.00 | 95.59 AV | | | 3.60 V | 125 | 94.04 | 1.55 | | |
| 3 | 4880.00 | 50.98 PK | 74.00 | -23.02 | 2.17 V | 14 | 41.46 | 9.52 | | |
| 4 | 4880.00 | 40.71 AV | 54.00 | -13.29 | 2.17 V | 14 | 31.19 | 9.52 | | |

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.



| RF Mode | TX Zigbee | Channel | CH 26: 2480 MHz |
|-----------------|--------------|-------------------|-----------------|
| Fraguency Bango | 10Uz 250Uz | Detector Function | Peak (PK) |
| Frequency Range | 1GHz ~ 25GHz | Detector Function | Average (AV) |

| | | Antor | na Polarity | & Tost Dist | anco : Hori | zontal at 3 n | 2 | |
|----|--------------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| No | Frequency (MHz) | Fmission | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | *2480.00 | 100.12 PK | | | 1.13 H | 240 | 98.32 | 1.80 |
| 2 | *2480.00 | 96.89 AV | | | 1.13 H | 240 | 95.09 | 1.80 |
| 3 | 2483.50 | 56.08 PK | 74.00 | -17.92 | 1.13 H | 240 | 54.25 | 1.83 |
| 4 | 2483.50 | 45.41 AV | 54.00 | -8.59 | 1.13 H | 240 | 43.58 | 1.83 |
| 5 | 4960.00 | 50.73 PK | 74.00 | -23.27 | 1.46 H | 185 | 41.17 | 9.56 |
| 6 | 4960.00 | 40.85 AV | 54.00 | -13.15 | 1.46 H | 185 | 31.29 | 9.56 |
| | | Ante | enna Polarit | y & Test Di | stance : Ver | tical 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 | 100.63 PK | | | 3.66 V | 131 | 98.83 | 1.80 |
| 2 | *2480.00 | 97.36 AV | | | 3.66 V | 131 | 95.56 | 1.80 |
| 3 | 2483.50 | 56.66 PK | 74.00 | -17.34 | 3.66 V | 131 | 54.83 | 1.83 |
| 4 | 2483.50 | 46.08 AV | 54.00 | -7.92 | 3.66 V | 131 | 44.25 | 1.83 |

Remarks:

6

4960.00

4960.00

- 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)

1.96 V

1.96 V

23

23

-22.39

-12.71

42.05

31.73

9.56

9.56

3. Margin value = Emission Level – Limit value

51.61 PK

41.29 AV

4. The other emission levels were very low against the limit.

74.00

54.00

5. " * ": Fundamental frequency.



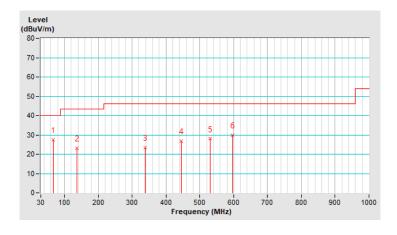
BELOW 1GHz WORST-CASE DATA

| RF Mode | TX Zigbee | Channel | CH 26: 2480 MHz |
|-----------------|-------------|--------------------------|-----------------|
| Frequency Range | 9kHz ~ 1GHz | Detector Function | Quasi-Peak (QP) |

| | 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 | 66.62 | 27.43 QP | 40.00 | -12.57 | 1.28 H | 358 | 36.04 | -8.61 | | | |
| 2 | 136.51 | 23.15 QP | 43.50 | -20.35 | 1.41 H | 29 | 30.61 | -7.46 | | | |
| 3 | 338.07 | 23.44 QP | 46.00 | -22.56 | 1.06 H | 116 | 26.80 | -3.36 | | | |
| 4 | 445.01 | 26.72 QP | 46.00 | -19.28 | 1.37 H | 53 | 27.68 | -0.96 | | | |
| 5 | 530.42 | 28.02 QP | 46.00 | -17.98 | 1.63 H | 171 | 27.58 | 0.44 | | | |
| 6 | 596.48 | 29.93 QP | 46.00 | -16.07 | 1.55 H | 327 | 27.71 | 2.22 | | | |

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 30MHz~1000MHz.
- 5. The emission levels were very low against the limit of frequency range 9kHz~30MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.



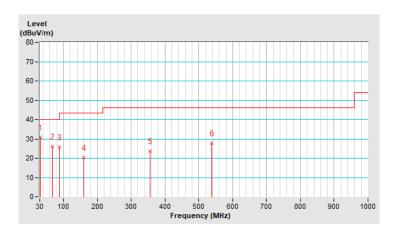


| RF Mode | TX Zigbee | Channel | CH 26: 2480 MHz |
|-----------------|-------------|--------------------------|-----------------|
| Frequency Range | 9kHz ~ 1GHz | Detector Function | Quasi-Peak (QP) |

| | 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 | 31.65 | 30.91 QP | 40.00 | -9.09 | 1.38 V | 360 | 39.99 | -9.08 | | |
| 2 | 66.42 | 26.09 QP | 40.00 | -13.91 | 1.05 V | 344 | 34.71 | -8.62 | | |
| 3 | 87.76 | 25.72 QP | 40.00 | -14.28 | 1.72 V | 225 | 38.45 | -12.73 | | |
| 4 | 160.08 | 20.30 QP | 43.50 | -23.20 | 1.44 V | 360 | 26.78 | -6.48 | | |
| 5 | 356.21 | 23.72 QP | 46.00 | -22.28 | 1.00 V | 138 | 26.99 | -3.27 | | |
| 6 | 537.70 | 27.92 QP | 46.00 | -18.08 | 1.39 V | 308 | 27.36 | 0.56 | | |

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 30MHz~1000MHz.
- 5. The emission levels were very low against the limit of frequency range 9kHz~30MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.





4.2 Conducted Emission Measurement

4.2.1 Limits of Conducted Emission Measurement

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

Note: 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 0.50MHz.

4.2.2 Test Instruments

| Description & Manufacturer | Model No. | Serial No. | Cal. Date | Cal. Due |
|--|---------------|--------------|---------------|---------------|
| ROHDE & SCHWARZ TEST RECEIVER | ESCS30 | 100276 | Apr. 16, 2020 | Apr. 15, 2021 |
| SCHWARZBECK Artificial Mains Network (for EUT) | NSLK 8128 | 8128-244 | Nov. 19, 2020 | Nov. 18, 2021 |
| LISN With Adapter (for EUT) | AD10 | C05Ada-001 | Nov. 19, 2020 | Nov. 18, 2021 |
| R&S Artificial Mains Network (for peripheral) | ESH3-Z5 | 100220 | Dec. 1, 2020 | Nov. 30, 2021 |
| Software | Cond_V7.3.7.4 | NA | NA | NA |
| RF cable (JYEBAO) With 10dB PAD | 5D-FB | Cable-C05.01 | Jan. 29, 2021 | Jan. 28, 2022 |
| LYNICS Terminator (For R&S LISN) | 0900510 | E1-01-305 | Feb. 17, 2020 | Feb. 16, 2021 |

Note: 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.

- 2. The test was performed in Shielded Room No. 5. (Conduction 5)
- 3. The VCCI Site Registration No. C-11093.
- 4. The Industry Canada Reference No. IC 3789-5.



4.2.3 Test Procedures

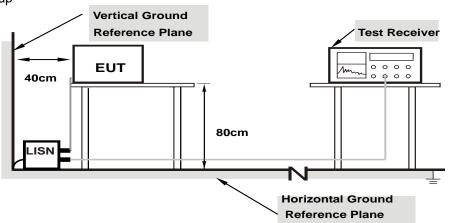
- a. The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/ 50uH of coupling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

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

4.2.4 Deviation from Test Standard

No deviation.

4.2.5 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).

4.2.6 EUT Operating Conditions

Same as Item 4.1.6.



4.2.7 Test Results

| Eroquoney Pango | 150kHz ~ 30MHz | Detector Function & | Quasi-Peak (QP) / |
|-----------------|--------------------|----------------------|--------------------|
| Frequency Range | 130KI IZ ~ 30WI IZ | Resolution Bandwidth | Average (AV), 9kHz |

| | Phase Of Power : Line (L) | | | | | | | | | |
|----|---|-------|-----------------|------|----------------|-------|-------|-------|--------|--------|
| No | Frequency Correction Reading Value Emission Level (dBuV) (dBuV) | | Limit (dBuV) | | Margin (dB) | | | | | |
| | (MHz) | (dB) | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. |
| 1 | 0.16172 | 9.89 | 14.24 | 6.10 | 24.13 | 15.99 | 65.38 | 55.38 | -41.25 | -39.39 |
| 2 | 0.24375 | 9.89 | 10.66 | 4.97 | 20.55 | 14.86 | 61.97 | 51.97 | -41.42 | -37.11 |
| 3 | 0.44297 | 9.91 | 10.47 | 4.73 | 20.38 | 14.64 | 57.01 | 47.01 | -36.63 | -32.37 |
| 4 | 0.71325 | 9.93 | 10.91 | 4.34 | 20.84 | 14.27 | 56.00 | 46.00 | -35.16 | -31.73 |
| 5 | 2.90234 | 9.99 | 8.53 | 0.13 | 18.52 | 10.12 | 56.00 | 46.00 | -37.48 | -35.88 |
| 6 | 7.82422 | 10.11 | 9.47 | 1.34 | 19.58 | 11.45 | 60.00 | 50.00 | -40.42 | -38.55 |

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





| Eroguanov Banga | 150kHz ~ 30MHz | Detector Function & | Quasi-Peak (QP) / |
|-----------------|------------------|--------------------------------|--------------------|
| Frequency Range | 150KHZ ~ 30IVIHZ | Resolution Bandwidth | Average (AV), 9kHz |

| | Phase Of Power : Neutral (N) | | | | | | | | | |
|----|------------------------------|---|-------|------|-------|-------|------------|-------|--------|--------|
| No | Frequency | Frequency Correction Reading Value Emission Level (dBuV) (dBuV) | | , , | | | Mar (dl | _ | | |
| | (MHz) | (dB) | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. |
| 1 | 0.15781 | 9.90 | 14.28 | 6.07 | 24.18 | 15.97 | 65.58 | 55.58 | -41.40 | -39.61 |
| 2 | 0.25938 | 9.91 | 11.38 | 4.28 | 21.29 | 14.19 | 61.45 | 51.45 | -40.16 | -37.26 |
| 3 | 0.44688 | 9.92 | 10.61 | 3.12 | 20.53 | 13.04 | 56.93 | 46.93 | -36.40 | -33.89 |
| 4 | 0.68906 | 9.93 | 11.16 | 5.09 | 21.09 | 15.02 | 56.00 | 46.00 | -34.91 | -30.98 |
| 5 | 3.29297 | 10.01 | 8.43 | 0.87 | 18.44 | 10.88 | 56.00 | 46.00 | -37.56 | -35.12 |
| 6 | 22.42969 | 10.48 | 9.59 | 1.30 | 20.07 | 11.78 | 60.00 | 50.00 | -39.93 | -38.22 |

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



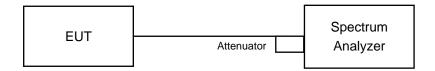


4.3 6dB Bandwidth Measurement

4.3.1 Limits of 6dB Bandwidth Measurement

The minimum of 6dB Bandwidth Measurement is 0.5 MHz.

4.3.2 Test Setup



4.3.3 Test Instruments

Refer to section 4.1.2 to get information of above instrument.

4.3.4 Test Procedure

- a. Set resolution bandwidth (RBW) = 100kHz
- b. Set the video bandwidth (VBW) \geq 3 x RBW, Detector = Peak.
- c. Trace mode = max hold.
- d. Sweep = auto couple.
- e. 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

4.3.5 Deviation fromTest Standard

No deviation.

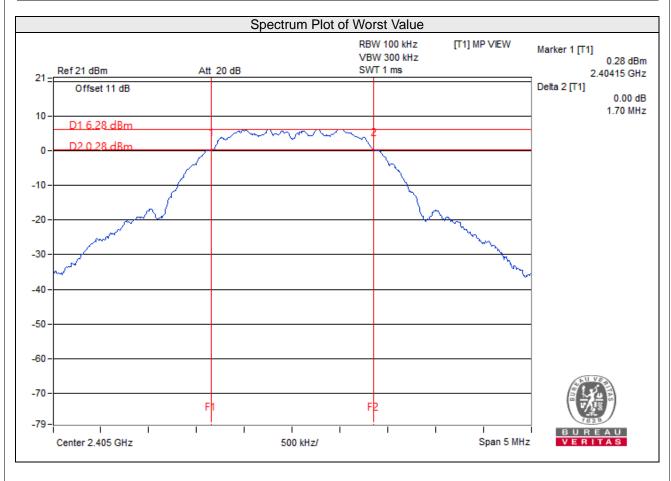
4.3.6 EUT Operating Conditions

The software provided by client to enable the EUT under transmission condition continuously at lowest, middle and highest channel frequencies individually.



4.3.7 Test Result

| Channel | Frequency (MHz) | 6dB Bandwidth (MHz) | Minimum Limit (MHz) | Pass / Fail |
|---------|-----------------|------------------------|------------------------|-------------|
| 11 | 2405 | 1.7 | 0.5 | Pass |
| 18 | 2440 | 1.7 | 0.5 | Pass |
| 26 | 2480 | 1.7 | 0.5 | Pass |



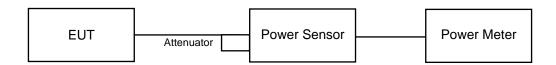


4.4 Conducted Output Power Measurement

4.4.1 Limits of Conducted Output Power Measurement

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

4.4.2 Test Setup



4.4.3 Test Instruments

Refer to section 4.1.2 to get information of above instrument.

4.4.4 Test Procedures

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 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.

4.4.5 Deviation from Test Standard

No deviation.

4.4.6 EUT Operating Conditions

Same as Item 4.3.6.



4.4.7 Test Results

FOR PEAK POWER

| Channel | Frequency (MHz) | Peak Power (mW) | Peak Power (dBm) | Limit (dBm) | Pass/Fail |
|---------|-----------------|--------------------|---------------------|-------------|-----------|
| 11 | 2405 | 10.520 | 10.22 | 30 | Pass |
| 18 | 2440 | 9.594 | 9.82 | 30 | Pass |
| 26 | 2480 | 8.933 | 9.51 | 30 | Pass |

FOR AVERAGE POWER

| Channel | Frequency (MHz) | Average Power (mW) | Average Power (dBm) |
|---------|-----------------|--------------------|------------------------|
| 11 | 2405 | 10.423 | 10.18 |
| 18 | 2440 | 9.506 | 9.78 |
| 26 | 2480 | 8.730 | 9.41 |

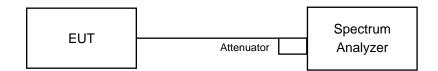


4.5 Power Spectral Density Measurement

4.5.1 Limits of Power Spectral Density Measurement

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

4.5.2 Test Setup



4.5.3 Test Instruments

Refer to section 4.1.2 to get information of above instrument.

4.5.4 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: $3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$.
- d. Set the VBW \geq 3 × 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.

4.5.5 Deviation from Test Standard

No deviation.

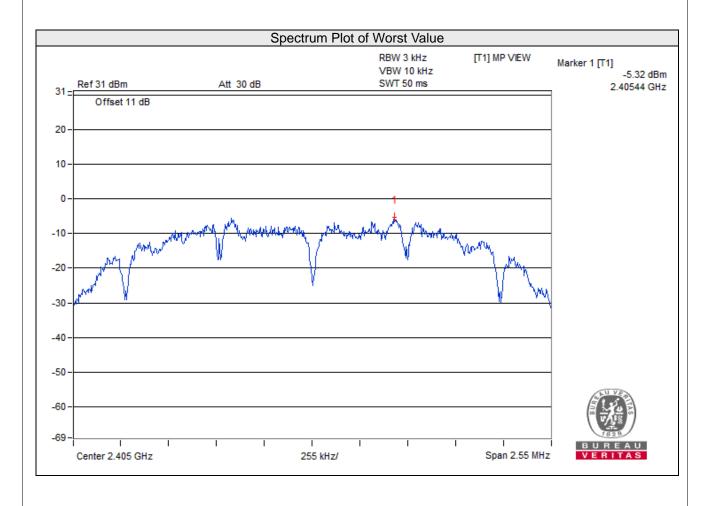
4.5.6 EUT Operating Condition

Same as Item 4.3.6



4.5.7 Test Results

| Channel | Freq. (MHz) | PSD (dBm/3kHz) | Limit (dBm/3kHz) | Pass /Fail |
|---------|----------------|-------------------|---------------------|---------------|
| 11 | 2405 | -5.32 | 8 | Pass |
| 18 | 2440 | -5.98 | 8 | Pass |
| 26 | 2480 | -5.44 | 8 | Pass |





4.6 Conducted Out of Band Emission Measurement

4.6.1 Limits of Conducted Out of Band Emission Measurement

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

4.6.2 Test Setup



4.6.3 Test Instruments

Refer to section 4.1.2 to get information of above instrument.

4.6.4 Test Procedure

MEASUREMENT PROCEDURE REF

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

MEASUREMENT PROCEDURE OOBE

- 1. Set RBW = 100 kHz.
- 2. Set VBW ≥ 300 kHz.
- 3. Detector = peak.
- 4. Sweep = auto couple.
- 5. Trace Mode = max hold.
- 6. Allow trace to fully stabilize.
- 7. Use the peak marker function to determine the maximum amplitude level.

4.6.5 Deviation from Test Standard

No deviation.

4.6.6 EUT Operating Condition

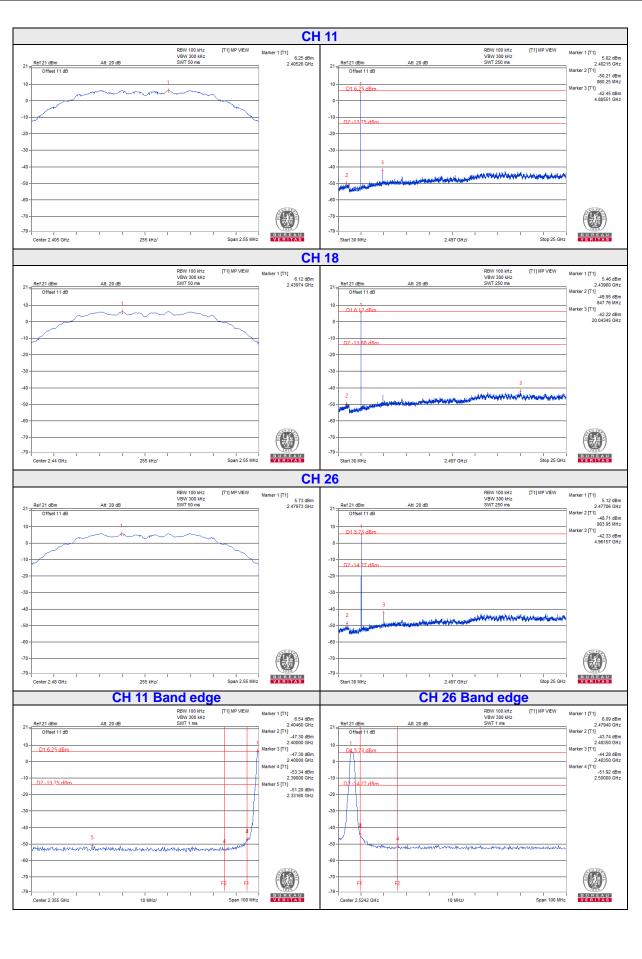
Same as Item 4.3.6

4.6.7 Test Results

The spectrum plots are attached on the following pages. D1 line indicates the highest level, and D2 line indicates the 20dB offset below D1. It shows compliance with the requirement.

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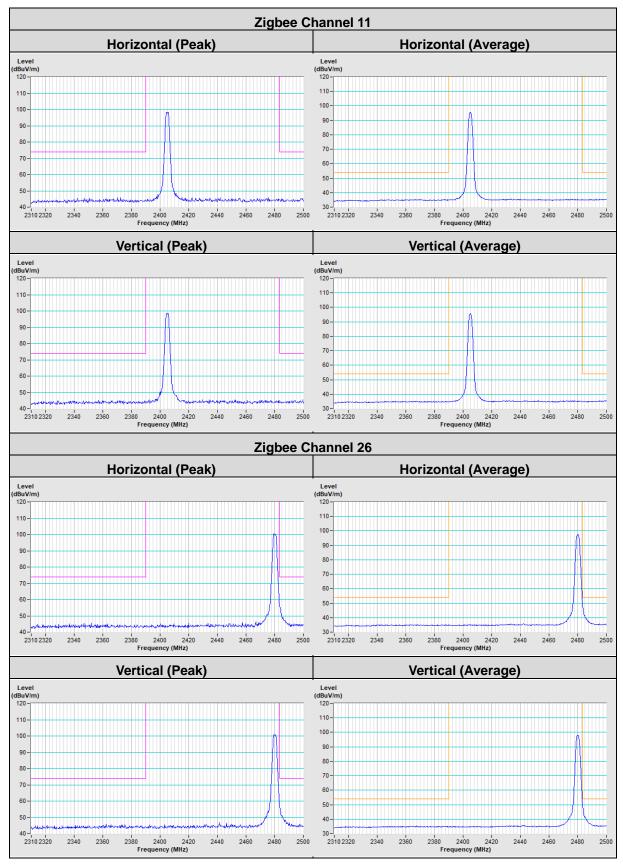


| 5 Pictures of Test Arrangements | | | | |
|---|--|--|--|--|
| Please refer to the attached file (Test Setup Photo). | | | | |
| | | | | |
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Annex A - Band Edge Measurement





Appendix - 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

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Web Site: www.bureauveritas-adt.com

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

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