

TEST REPORT

CERTIFICATE OF CONFORMITY

Standard: 47 CFR FCC Part 15, Subpart E (Section 15.407)

Report No.: RFBVSW-WTW-P22080967-1

FCC ID: 2A3G3-WMX720X

Product: Wi-Fi 6E BT 5.2 M.2 2230 Module, Wi-Fi 6E BT 5.2 Mini PCIe Module

Brand: EmWicon Corporation

Model No.: WMX7205, WMX7203

Series Model: WMX7203-F

Received Date: 2022/8/30

Test Date: 2022/11/24 ~ 2023/1/17

Issued Date: 2023/2/21

Applicant: EmWicon Corporation

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Issued By: Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch
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FCC Registration / 723255 / TW2022

Designation Number:

Approved by: _____, **Date:** 2023/2/21
May Chen / Manager

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Prepared by : Vivian Huang / Specialist

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Release Control Record

| Issue No. | Description | Date Issued |
|------------------------|-------------------|-------------|
| RFBVSW-WTW-P22080967-1 | Original release. | 2023/2/21 |

1 Certificate

Product: Wi-Fi 6E BT 5.2 M.2 2230 Module, Wi-Fi 6E BT 5.2 Mini PCIe Module

Brand: EmWicon Corporation

Test Model: WMX7205, WMX7203

Series Model: WMX7203-F

Sample Status: Engineering sample

Applicant: EmWicon Corporation

Test Date: 2022/11/24 ~ 2023/1/17

Standard: 47 CFR FCC Part 15, Subpart E (Section 15.407)

Measurement procedure: ANSI C63.10-2013
KDB 789033 D02 General UNII Test Procedure New Rules v02r01
KDB 662911 D01 Multiple Transmitter Output v02r01

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 E (Section 15.407) | | | |
|--|--------------------------------|--------|--|
| Clause | Test Item | Result | Remark |
| 15.407(a)(2) | 26 dB Bandwidth | NA | Refer to Note 1 below |
| | RF Output Power | NA | Refer to Note 1 below |
| | Power Spectral Density | NA | Refer to Note 1 below |
| 15.407(e) | 6 dB Bandwidth | NA | Refer to Note 1 below |
| --- | Occupied Bandwidth | NA | Refer to Note 1 below |
| 15.407(g) | Frequency Stability | NA | Refer to Note 1 below |
| 15.407(b)(9) | AC Power Conducted Emissions | NA | Refer to Note 1 below |
| 15.407(b)(9) | Unwanted Emissions below 1 GHz | Pass | Minimum passing margin is -6.2 dB at 34.87 MHz |
| | Unwanted Emissions above 1 GHz | Pass | Minimum passing margin is -0.2 dB at 5147.09 MHz |
| 15.203 | Antenna Requirement | Pass | Antenna connector is ipex & RP-SMA not a standard connector. |

Notes:

1. Unwanted Emissions Measurement were performed for this addendum. The others testing data refer to original test report. (Original FCC ID: J9C-QCNFA765, Report No.: RF201119E01-1).
2. 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) (±) |
|--------------------------------|-----------------|-----------------------------------|
| Unwanted Emissions below 1 GHz | 9 kHz ~ 30 MHz | 3.1 dB |
| | 30 MHz ~ 1 GHz | 5.5 dB |
| Unwanted Emissions above 1 GHz | 1 GHz ~ 18 GHz | 5.1 dB |
| | 18 GHz ~ 40 GHz | 5.3 dB |

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

2.2 Supplementary Information

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

3 General Information

3.1 General Description of EUT

| | |
|-----------------------|---|
| Product | Wi-Fi 6E BT 5.2 M.2 2230 Module, Wi-Fi 6E BT 5.2 Mini PCIe Module |
| Brand | EmWicon Corporation |
| Test Model | WMX7205, WMX7203 |
| Series Model | WMX7203-F |
| Status of EUT | Engineering sample |
| Power Supply Rating | 3.3Vdc from host equipment |
| Modulation Type | 64QAM, 16QAM, QPSK, BPSK for OFDM 1024QAM for OFDM in 11ac mode 4096QAM for OFDMA in 11ax mode |
| Modulation Technology | OFDM, OFDMA |
| Transfer Rate | 802.11a: up to 54Mbps 802.11n: up to 300Mbps 802.11ac: up to 2166.7Mbps 802.11ax: up to 2969.7Mbps |
| Operating Frequency | 5.18 ~ 5.32GHz, 5.5 ~ 5.72GHz, 5.745 ~ 5.825GHz |
| Number of Channel | 802.11a, 802.11n (HT20), 802.11ac (VHT20), 802.11ax (HE20): 25 802.11n (HT40), 802.11ac (VHT40), 802.11ax (HE40): 12 802.11ac (VHT80), 802.11ax (HE80): 6 802.11ac (VHT160), 802.11ax (HE160): 2 |
| Output Power | 5.18 ~ 5.25GHz: 154.489mW 5.25 ~ 5.32GHz: 153.87mW 5.5 ~ 5.72GHz: 152.442mW 5.745 ~ 5.825GHz: 151.553mW |

Note:

- This report is prepared for FCC class II permissive change. The difference compared with the original design is as the following:
 - ◆ Added two models (refer to note 3).
 - ◆ Added new antenna (refer to section 3.2).
- According to above conditions, only unwanted emissions needs to be performed. And all data are verified to meet the requirements.
- The EUT has below model names which are identical to each other in all aspects except for the following table:

Original

| Model Name | Product Name | PCB size | Interface | IPEX | Difference |
|------------|---------------------------------|---------------|------------|----------------|------------|
| WMX7205 | Wi-Fi 6E BT 5.2 M.2 2230 Module | Original size | M.2 E-Key | i-pex (MHF 4L) | - |
| | | | M.2 AE-Key | | |

Newly

| Model Name | Product Name | PCB size | Interface | IPEX | Difference |
|------------|----------------------------------|----------------------|-----------|---------------|----------------|
| WMX7203 | Wi-Fi 6E BT 5.2 Mini PCIe Module | Bigger than original | mini PCIe | i-pex (MHF 1) | Market segment |
| WMX7203-F | | Bigger than original | mini PCIe | | |

Note: From the above models, model: **WMX7205, WMX7203** was selected as representative model for the test and its data was recorded in this report.

4. This device of WLAN (2.4GHz & 5GHz U-NII-1 Band) can support hotspot mode.

5. Simultaneously transmission condition.

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

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

6. The device of WLAN (2.4GHz) and Bluetooth technology can't transmit simultaneously, it was used timely shared coexistence technology.

7. The module (Model: WMX7205) has two variant designs as following table:

| SKU No. | Description |
|---------|-----------------|
| SKU #1 | M.2 2230 E-key |
| SKU #2 | M.2 2230 AE-key |

From the above variants designs, the worst case was found in **SKU #1**. Therefore only the test data of the mode was recorded in this report.

8. The product provides option to depopulate external LNA (Low-Noise amplifier) from 5GHz/6GHz receive path. This test report covers variation of with/without external LNA and test was conducted to confirm not change in RF compliance and EMC. And worst case was found in without external LNA.

9. The above EUT information is declared by manufacturer and for more detailed features description, please refers to the manufacturer's specifications or user's manual.

3.2 Antenna Description of EUT

1. The antenna information is listed as below.

| Original | | | | | | | | | |
|-------------|--------------|---------|-----------|------------------------|-----------------|-----------------|--------------|-----------------------------|--------------|
| Antenna Set | RF Chain No. | Brand | Model | Antenna Net Gain (dBi) | Frequency Range | Cable Loss (dB) | Antenna Type | Connector Type | Cable Length |
| 1 | Chain0/1 | HONGBO | 260-25094 | 3.53 | 2.4~2.4835 GHz | 0.76 | PIFA | ipex(MHF 4L) ipex(MHF 1) | 300mm |
| | | | | 3.06 | 5.15~5.25 GHz | 1.16 | | | |
| | | | | 3.07 | 5.25~5.35 GHz | 1.18 | | | |
| | | | | 4.81 | 5.47~5.725 GHz | 1.2 | | | |
| | | | | 4.2 | 5.725~5.850 GHz | 1.27 | | | |
| 2 | Chain0/1 | HONGBO | 260-25083 | 5.09 | 5.850~5.895 GHz | 1.29 | PIFA | ipex(MHF 4L) ipex(MHF 1) | 300mm |
| | | | | 5.14 | 5.925~6.425 GHz | 1.32 | | | |
| | | | | 5.09 | 6.425~6.525 GHz | 1.35 | | | |
| | | | | 5.16 | 6.525~6.875 GHz | 1.4 | | | |
| | | | | 5.12 | 6.875~7.125 GHz | 1.45 | | | |
| 3 | Chain0/1 | HONGBO | 260-25084 | 3.22 | 2.4~2.4835 GHz | 0.5 | Monopole | ipex(MHF 4L) ipex(MHF 1) | 200mm |
| | | | | 3.35 | 5.150~5.250 GHz | 0.76 | | | |
| | | | | 3.42 | 5.250~5.350 GHz | 0.78 | | | |
| | | | | 4.77 | 5.470~5.725 GHz | 0.81 | | | |
| | | | | 4.72 | 5.725~5.850 GHz | 0.85 | | | |
| | | | | 4.71 | 5.850~5.895 GHz | 0.86 | | | |
| | | | | 4.75 | 5.925~6.425 GHz | 0.87 | | | |
| | | | | 4.29 | 6.425~6.525 GHz | 0.91 | | | |
| | | | | 4.81 | 6.525~6.875 GHz | 0.96 | | | |
| | | | | 4.74 | 6.875~7.125 GHz | 0.98 | | | |
| Newly | | | | | | | | | |
| Antenna Set | RF Chain No. | Brand | Model | Antenna Net Gain (dBi) | Frequency Range | Cable Loss (dB) | Antenna Type | Connector Type | Cable Length |
| 4 | Chain0/1 | emwicon | ATD7351 | 2.51 | 2400 MHz | 0.64 | Monopole | RP-SMA | 0.15m |
| | | | | 2.66 | 2450 MHz | 0.64 | | | |
| | | | | 2.07 | 2500 MHz | 0.64 | | | |
| | | | | 3.21 | 5150 MHz | 1.27 | | | |
| | | | | 3.64 | 5500 MHz | 1.27 | | | |
| | | | | 3.73 | 5850 MHz | 1.27 | | | |
| | | | | 3.13 | 6125 MHz | 1.24 | | | |
| | | | | 3.54 | 6750 MHz | 1.24 | | | |
| | | | | 3.06 | 7125 MHz | 1.24 | | | |

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

2. The EUT incorporates a MIMO function:

| 5GHz Band | | |
|--|-----------------------|-----|
| MODULATION MODE | TX & RX CONFIGURATION | |
| 802.11a | 2TX | 2RX |
| 802.11n (HT20) | 2TX | 2RX |
| 802.11n (HT40) | 2TX | 2RX |
| 802.11ac (VHT20) | 2TX | 2RX |
| 802.11ac (VHT40) | 2TX | 2RX |
| 802.11ac (VHT80) | 2TX | 2RX |
| 802.11ac (VHT160) | 2TX | 2RX |
| 802.11ax (HE20) | 2TX | 2RX |
| 802.11ax (HE40) | 2TX | 2RX |
| 802.11ax (HE80) | 2TX | 2RX |
| 802.11ax (HE160) | 2TX | 2RX |
| 802.11ax (RU26/52/106/242/484/996/1992) | 2TX | 2RX |

Note:

1. The EUT support Beamforming and non-beamforming mode, therefore both mode were investigated and the worst case scenario was identified. The worst case data (CDD mode) were presented in test report.
2. The modulation and bandwidth are similar for 802.11n mode for 20MHz (40MHz), 802.11ac mode for 20MHz (40MHz, 80MHz, 160MHz) and 802.11ax mode for 20MHz (40MHz, 80MHz, 160MHz), therefore the manufacturer will control the power for 802.11n/ac mode is the same as the 802.11ax mode or more lower than it and investigated worst case to representative mode in test report.

3.3 Channel List

FOR 5180 ~ 5320MHz

8 channels are provided for 802.11a, 802.11n (HT20), 802.11ac (VHT20), 802.11ax (HE20):

| Channel | Frequency | Channel | Frequency |
|---------|-----------|---------|-----------|
| 36 | 5180 MHz | 52 | 5260 MHz |
| 40 | 5200 MHz | 56 | 5280 MHz |
| 44 | 5220 MHz | 60 | 5300 MHz |
| 48 | 5240 MHz | 64 | 5320 MHz |

4 channels are provided for 802.11n (HT40), 802.11ac (VHT40), 802.11ax (HE40):

| Channel | Frequency | Channel | Frequency |
|---------|-----------|---------|-----------|
| 38 | 5190 MHz | 54 | 5270 MHz |
| 46 | 5230 MHz | 62 | 5310 MHz |

2 channel is provided for 802.11ac (VHT80), 802.11ax (HE80):

| Channel | Frequency | Channel | Frequency |
|---------|-----------|---------|-----------|
| 42 | 5210 MHz | 58 | 5290 MHz |

1 straddle channel is provided for 802.11ac (VHT160), 802.11ax (HE160):

| Channel | Frequency |
|---------|-----------|
| 50 | 5250 MHz |

FOR 5500 ~ 5720MHz

12 channels are provided for 802.11a, 802.11n (HT20), 802.11ac (VHT20), 802.11ax (HE20):

| Channel | Frequency | Channel | Frequency |
|---------|-----------|---------|-----------|
| 100 | 5500 MHz | 124 | 5620 MHz |
| 104 | 5520 MHz | 128 | 5640 MHz |
| 108 | 5540 MHz | 132 | 5660 MHz |
| 112 | 5560 MHz | 136 | 5680 MHz |
| 116 | 5580 MHz | 140 | 5700 MHz |
| 120 | 5600 MHz | 144 | 5720 MHz |

6 channels are provided for 802.11n (HT40), 802.11ac (VHT40), 802.11ax (HE40):

| Channel | Frequency | Channel | Frequency |
|---------|-----------|---------|-----------|
| 102 | 5510 MHz | 126 | 5630 MHz |
| 110 | 5550 MHz | 134 | 5670 MHz |
| 118 | 5590 MHz | 142 | 5710 MHz |

3 channels are provided for 802.11ac (VHT80), 802.11ax (HE80):

| Channel | Frequency | Channel | Frequency |
|---------|-----------|---------|-----------|
| 106 | 5530 MHz | 138 | 5690 MHz |
| 122 | 5610 MHz | | |

1 straddle channel is provided for 802.11ac (VHT160), 802.11ax (HE160):

| Channel | Frequency |
|---------|-----------|
| 114 | 5570 MHz |

FOR 5745 ~ 5825MHz:

5 channels are provided for 802.11a, 802.11n (HT20), 802.11ac (VHT20), 802.11ax (HE20):

| Channel | Frequency | Channel | Frequency |
|---------|-----------|---------|-----------|
| 149 | 5745 MHz | 161 | 5805 MHz |
| 153 | 5765 MHz | 165 | 5825 MHz |
| 157 | 5785 MHz | | |

2 channels are provided for 802.11n (HT40), 802.11ac (VHT40), 802.11ax (HE20):

| Channel | Frequency | Channel | Frequency |
|---------|-----------|---------|-----------|
| 151 | 5755 MHz | 159 | 5795 MHz |

1 channel is provided for 802.11ac (VHT80), 802.11ax (HE80):

| Channel | Frequency |
|---------|-----------|
| 155 | 5775 MHz |

3.4 Test Mode Applicability and Tested Channel Detail

| | |
|-------------|---|
| Pre-Scan: | 1. EUT can be used in the following ways: X-axis/ Y-axis/ Z-axis. Pre-scan these ways and find the worst case as a representative test condition. |
| Worst Case: | 1. X-axis/ Y-axis/ Z-axis Worst Condition: Y-axis for Unwanted Emissions Above 1GHz of Mode A; X-axis for Unwanted Emissions Below 1GHz of Mode A; Z-axis for Unwanted Emissions Above 1GHz of Mode B; X-axis for Unwanted Emissions Below 1GHz of Mode B |

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

| Test Item | EUT Configure Mode | Mode | Tested Channel | Modulation | Data Rate Parameter |
|--------------------------------|--------------------|------------------------|----------------|------------|---------------------|
| Unwanted Emissions below 1 GHz | A | 802.11ax (HE160) | 50 | BPSK | MCS0 |
| | B | 802.11ax (HE160) | 50 | BPSK | MCS0 |
| Unwanted Emissions above 1 GHz | A | 802.11ax (HE160) | 50 | BPSK | MCS0 |
| | B | 802.11ax (HE160) | 50 | BPSK | MCS0 |
| EUT Configure Mode: | A | Old Module + Antenna 4 | | | |
| | B | New Module + Antenna 4 | | | |

Note:

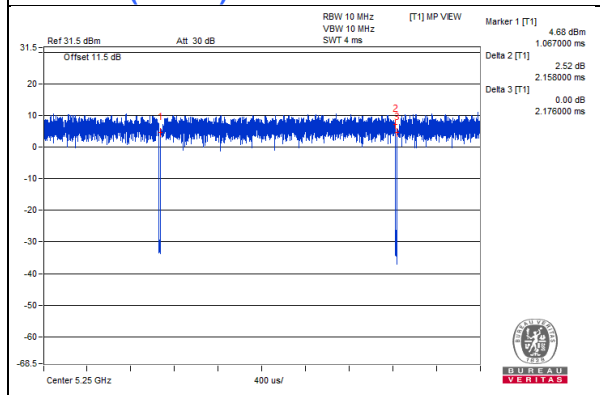
1. The EUT supports ax full RU and ax prital RU modes, so these two modes were investigated and the worst case was determined to be ax full RU mode. Worst case data are provided in the test report.
2. For the Unwanted Emission test mode, after evaluation, it is tested with the worst channel in all bandwidths, and finally tested with 11ax160 channel 50.

3.5 Duty Cycle of Test Signal

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

802.11ax (HE160): Duty cycle = $2.158 \text{ ms} / 2.176 \text{ ms} = 0.992$

802.11ax (HE160)

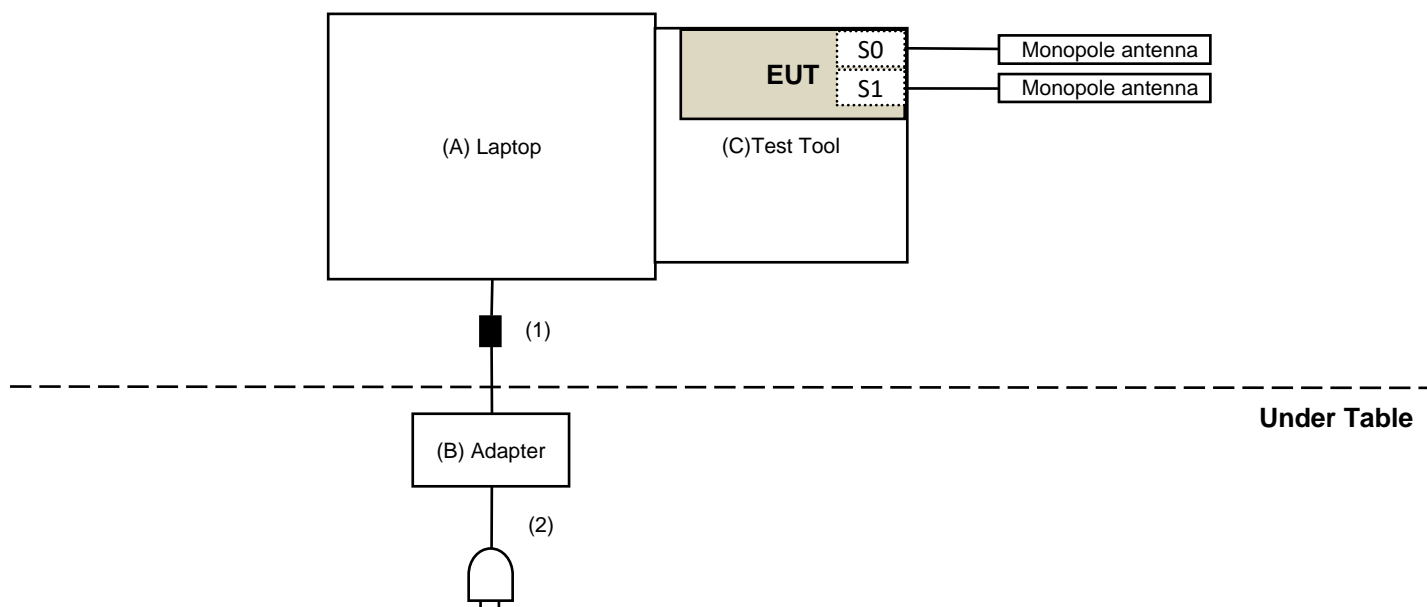


3.6 Test Program Used and Operation Descriptions

Controlling software (QRCT_v4.0-00182) has been activated to set the EUT under transmission condition continuously at specific channel frequency.

3.7 Connection Diagram of EUT and Peripheral Devices

For Unwanted Emission test (Monopole)



3.8 Configuration of Peripheral Devices and Cable Connections

| ID | Product | Brand | Model No. | Serial No. | FCC ID | Remarks |
|----|-----------|---------|-----------|------------|--------|-----------------------|
| A | Laptop | DELL | E6320 | N/A | N/A | Supplied by applicant |
| B | Adapter | DELL | DA90PM111 | N/A | N/A | Supplied by applicant |
| C | Test Tool | Phiyo | N/A | N/A | N/A | Supplied by applicant |
| D | Test Tool | EmWicon | N/A | N/A | N/A | Supplied by applicant |

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

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 Unwanted Emissions below 1 GHz

| Description Manufacturer | Model No. | Serial No. | Calibrated Date | Calibrated Until |
|---|----------------------|-------------|-------------------------|------------------------|
| Boresight Antenna Tower & Turn Table Max-Full | MF-7802BS | MF780208530 | N/A | N/A |
| Fixed attenuator Mini-Circuits | UNAT-5+ | PAD-ATT5-03 | 2022/1/10 2022/12/28 | 2023/1/9 2023/12/27 |
| LOOP ANTENNA Electro-Metrics | EM-6879 | 264 | 2022/3/18 | 2023/3/17 |
| Pre_Amplifier Agilent | 8447D | 2944A10636 | 2022/3/19 | 2023/3/18 |
| Pre_Amplifier EMCI | EMC330N | 980701 | 2022/3/8 | 2023/3/7 |
| RF Coaxial Cable COMMATE/PEWC | 8D | 966-4-1 | 2022/3/8 | 2023/3/7 |
| | | 966-4-2 | 2022/3/8 | 2023/3/7 |
| | | 966-4-3 | 2022/3/8 | 2023/3/7 |
| RF Coaxial Cable JYEBO | 5D-FB | LOOPCAB-001 | 2022/1/6 2022/12/19 | 2023/1/5 2023/12/18 |
| | | LOOPCAB-002 | 2022/1/6 2022/12/19 | 2023/1/5 2023/12/18 |
| Software | ADT_Radiated_V8.7.08 | N/A | N/A | N/A |
| Spectrum Analyzer KEYSIGHT | N9030B | MY57142938 | 2022/4/26 | 2023/4/25 |
| Trilog Broadband Antenna Schwarzbeck | VULB 9168 | 9168-406 | 2022/10/21 | 2023/10/20 |

Notes:

1. The test was performed in 966 Chamber No. 4.
2. Tested Date: 2022/11/24 ~ 2023/1/17

4.2 Unwanted Emissions above 1 GHz

| Description Manufacturer | Model No. | Serial No. | Calibrated Date | Calibrated Until |
|---|----------------------|-------------|--------------------------|--------------------------|
| Boresight Antenna Tower & Turn Table Max-Full | MF-7802BS | MF780208530 | N/A | N/A |
| Horn Antenna Schwarzbeck | BBHA 9120D | 9120D-783 | 2022/11/13 | 2023/11/12 |
| | BBHA 9170 | 9170-739 | 2022/11/13 | 2023/11/12 |
| Pre_Amplifier EMCI | EMC12630SE | 980688 | 2022/10/4 | 2023/10/3 |
| | EMC184045SE | 980387 | 2022/1/10 2022/12/28 | 2023/1/9 2023/12/27 |
| RF Cable-Frequency Range : 1- 26.5GHz EMCI | EMC104-SM-SM-1200 | 160922 | 2021/12/24 2022/12/15 | 2022/12/23 2023/12/14 |
| RF Cable-Frequency range: 1- 40GHz EMCI | EMC102-KM-KM-1200 | 160924 | 2022/1/10 2022/12/28 | 2023/1/9 2023/12/27 |
| RF Coaxial Cable EMCI | EMC-KM-KM-4000 | 200214 | 2022/3/8 | 2023/3/7 |
| | EMC104-SM-SM-2000 | 180502 | 2022/4/25 | 2023/4/24 |
| | EMC104-SM-SM-6000 | 210704 | 2022/11/4 | 2023/11/3 |
| Software | ADT_Radiated_V8.7.08 | N/A | N/A | N/A |
| Spectrum Analyzer Keysight | N9020B | MY60112410 | 2022/3/13 | 2023/3/12 |
| Spectrum Analyzer KEYSIGHT | N9030B | MY57142938 | 2022/4/26 | 2023/4/25 |

Notes:

1. The test was performed in 966 Chamber No. 4.
2. Tested Date: 2022/11/24 ~ 2023/1/17

5 Limits of Test Items

5.1 Unwanted Emissions below 1 GHz

Radiated emissions which fall in the restricted bands must comply with the radiated emission limits specified as below table.

| 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).

5.2 Unwanted Emissions above 1 GHz

Radiated emissions which fall in the restricted bands must comply with the radiated emission limits specified as below table.

| 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.

Limits of unwanted emission out of the restricted bands

| Applicable To | Limit | |
|--|-----------------------|-----------------|
| 789033 D02 General UNII Test Procedure New Rules v02r01 | Field Strength at 3 m | |
| | PK: 74 (dBuV/m) | AV: 54 (dBuV/m) |

Note: The following formula is used to convert the equipment isotropic radiated power (eirp) to field strength:

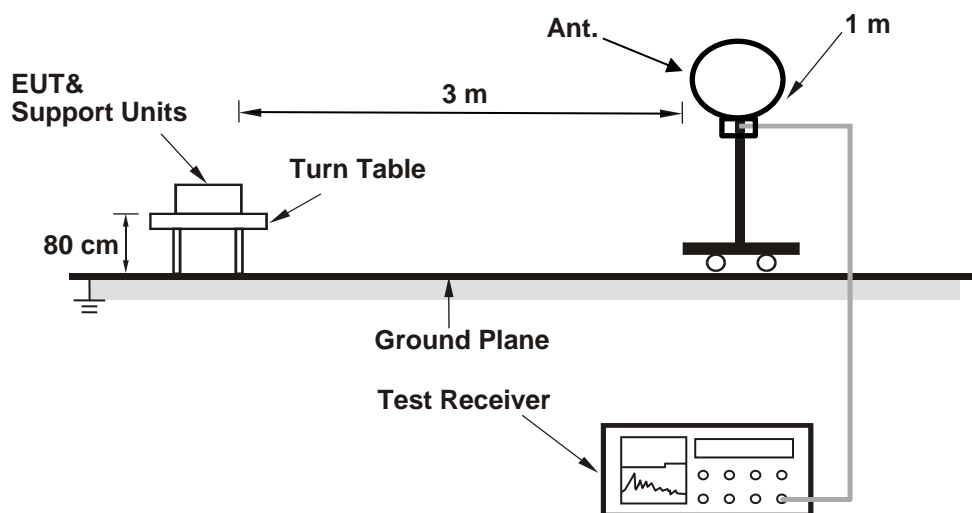
$$E = \frac{1000000\sqrt{30P}}{3} \quad \mu\text{V/m, where } P \text{ is the eirp (Watts).}$$

6 Test Arrangements

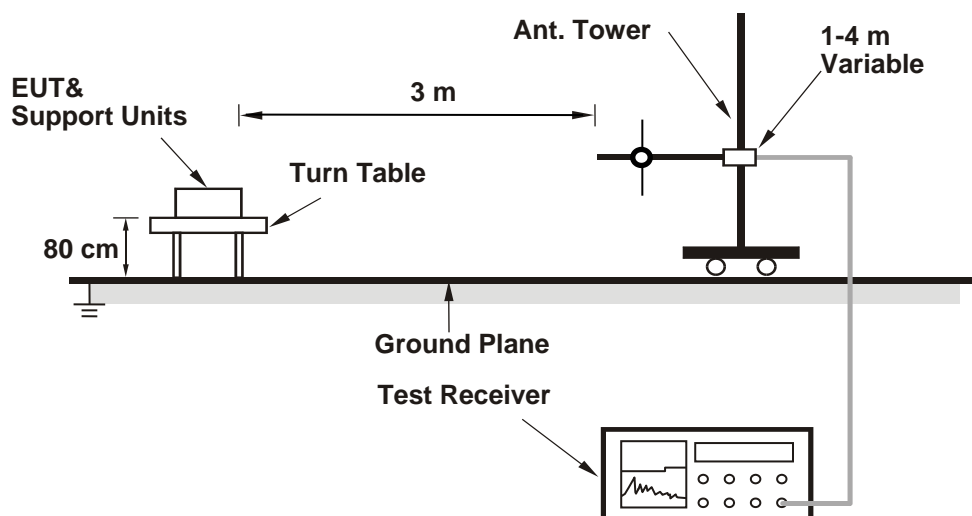
6.1 Unwanted Emissions below 1 GHz

6.1.1 Test Setup

For Radiated emission below 30 MHz



For Radiated emission above 30 MHz



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

6.1.2 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, except for the frequency band (9 kHz to 90 kHz and 110 kHz to 490 kHz) set to average detect function and peak detect function.

Notes:

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

For Radiated emission above 30 MHz

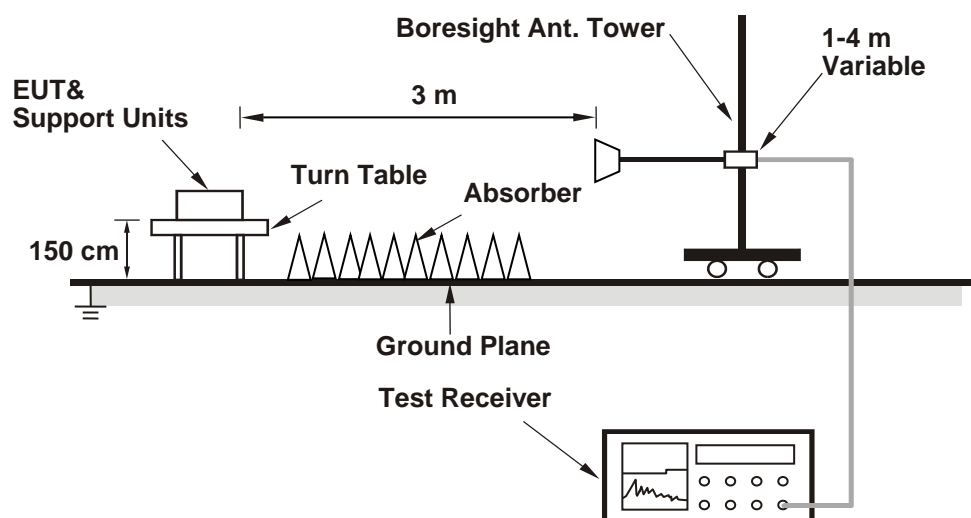
- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the 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.

6.2 Unwanted Emissions above 1 GHz

6.2.1 Test Setup



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

6.2.2 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 Unwanted Emissions below 1 GHz

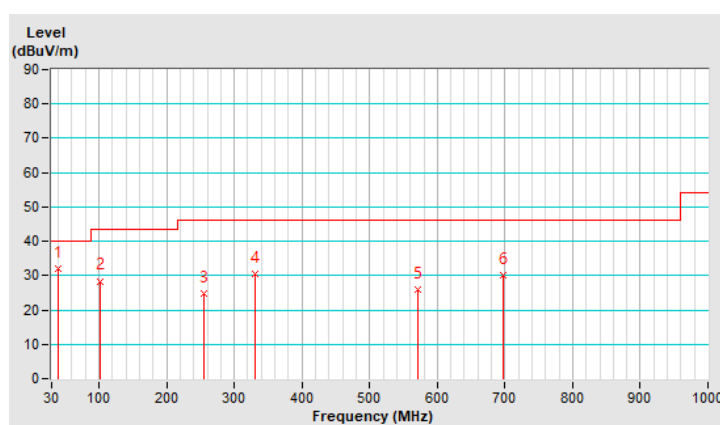
Mode A

| | | | |
|----------------------|------------------|-------------------------------|------------------|
| RF Mode | 802.11ax (HE160) | Channel | CH 50 : 5250 MHz |
| Frequency Range | 30 MHz ~ 1 GHz | Detector Function & Bandwidth | (QP) RB = 120kHz |
| Input Power (System) | 120 Vac, 60Hz | Environmental Conditions | 25°C, 68% RH |
| Tested By | Tom Yang | | |

| 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 | 39.27 | 31.9 QP | 40.0 | -8.1 | 1.50 H | 69 | 45.0 | -13.1 |
| 2 | 101.04 | 28.4 QP | 43.5 | -15.1 | 2.00 H | 308 | 44.8 | -16.4 |
| 3 | 255.51 | 24.8 QP | 46.0 | -21.2 | 1.00 H | 191 | 37.4 | -12.6 |
| 4 | 331.36 | 30.6 QP | 46.0 | -15.4 | 1.00 H | 32 | 40.4 | -9.8 |
| 5 | 571.44 | 25.9 QP | 46.0 | -20.1 | 2.00 H | 239 | 29.4 | -3.5 |
| 6 | 697.95 | 30.1 QP | 46.0 | -15.9 | 1.00 H | 353 | 30.8 | -0.7 |

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 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.

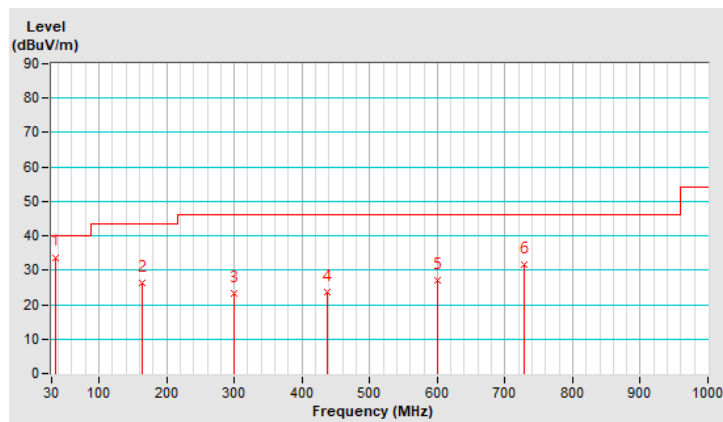


| | | | |
|----------------------|------------------|-------------------------------|------------------|
| RF Mode | 802.11ax (HE160) | Channel | CH 50 : 5250 MHz |
| Frequency Range | 30 MHz ~ 1 GHz | Detector Function & Bandwidth | (QP) RB = 120kHz |
| Input Power (System) | 120 Vac, 60Hz | Environmental Conditions | 25°C, 68% RH |
| Tested By | Tom Yang | | |

| 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 | 34.87 | 33.8 QP | 40.0 | -6.2 | 1.00 V | 148 | 47.5 | -13.7 |
| 2 | 163.18 | 26.3 QP | 43.5 | -17.2 | 2.00 V | 360 | 38.4 | -12.1 |
| 3 | 299.29 | 23.2 QP | 46.0 | -22.8 | 1.50 V | 225 | 33.9 | -10.7 |
| 4 | 437.96 | 23.6 QP | 46.0 | -22.4 | 2.00 V | 6 | 30.0 | -6.4 |
| 5 | 600.34 | 27.0 QP | 46.0 | -19.0 | 1.50 V | 90 | 29.4 | -2.4 |
| 6 | 728.07 | 31.8 QP | 46.0 | -14.2 | 1.50 V | 171 | 31.9 | -0.1 |

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The 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.



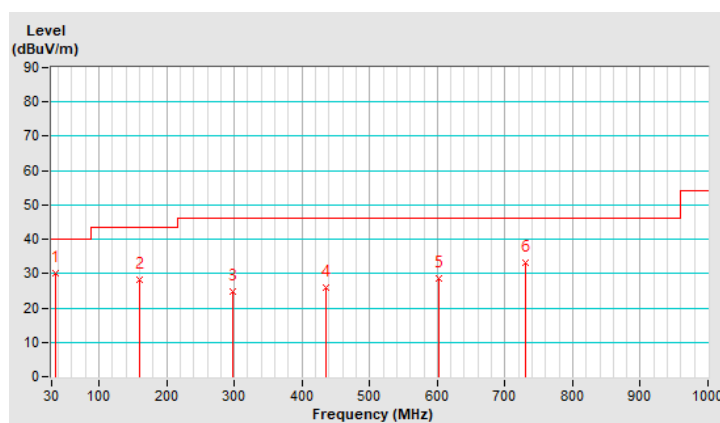
Mode B

| | | | |
|----------------------|------------------|-------------------------------|------------------|
| RF Mode | 802.11ax (HE160) | Channel | CH 50 : 5250 MHz |
| Frequency Range | 30 MHz ~ 1 GHz | Detector Function & Bandwidth | (QP) RB = 120kHz |
| Input Power (System) | 120 Vac, 60Hz | Environmental Conditions | 25°C, 68% RH |
| Tested By | Tom Yang | | |

| 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 | 35.28 | 30.0 QP | 40.0 | -10.0 | 2.00 H | 68 | 43.6 | -13.6 |
| 2 | 160.36 | 28.2 QP | 43.5 | -15.3 | 1.50 H | 70 | 40.2 | -12.0 |
| 3 | 297.06 | 24.8 QP | 46.0 | -21.2 | 1.50 H | 196 | 35.6 | -10.8 |
| 4 | 435.84 | 25.8 QP | 46.0 | -20.2 | 2.00 H | 267 | 32.2 | -6.4 |
| 5 | 601.57 | 28.6 QP | 46.0 | -17.4 | 2.00 H | 197 | 31.0 | -2.4 |
| 6 | 729.73 | 33.1 QP | 46.0 | -12.9 | 1.00 H | 75 | 33.1 | 0.0 |

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.

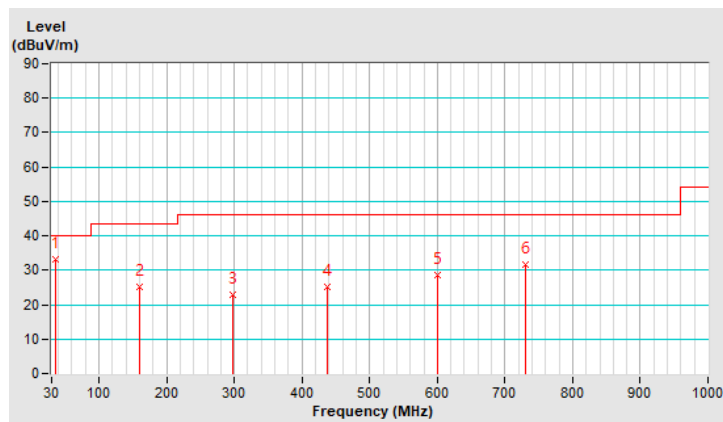


| | | | |
|----------------------|------------------|-------------------------------|------------------|
| RF Mode | 802.11ax (HE160) | Channel | CH 50 : 5250 MHz |
| Frequency Range | 30 MHz ~ 1 GHz | Detector Function & Bandwidth | (QP) RB = 120kHz |
| Input Power (System) | 120 Vac, 60Hz | Environmental Conditions | 25°C, 68% RH |
| Tested By | Tom Yang | | |

| 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 | 36.50 | 33.1 QP | 40.0 | -6.9 | 1.50 V | 160 | 46.5 | -13.4 |
| 2 | 160.72 | 25.0 QP | 43.5 | -18.5 | 2.00 V | 320 | 37.0 | -12.0 |
| 3 | 296.88 | 22.8 QP | 46.0 | -23.2 | 1.50 V | 182 | 33.6 | -10.8 |
| 4 | 437.04 | 25.3 QP | 46.0 | -20.7 | 1.00 V | 36 | 31.7 | -6.4 |
| 5 | 600.39 | 28.7 QP | 46.0 | -17.3 | 1.50 V | 14 | 31.1 | -2.4 |
| 6 | 730.02 | 31.5 QP | 46.0 | -14.5 | 1.00 V | 199 | 31.5 | 0.0 |

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.



7.2 Unwanted Emissions above 1 GHz

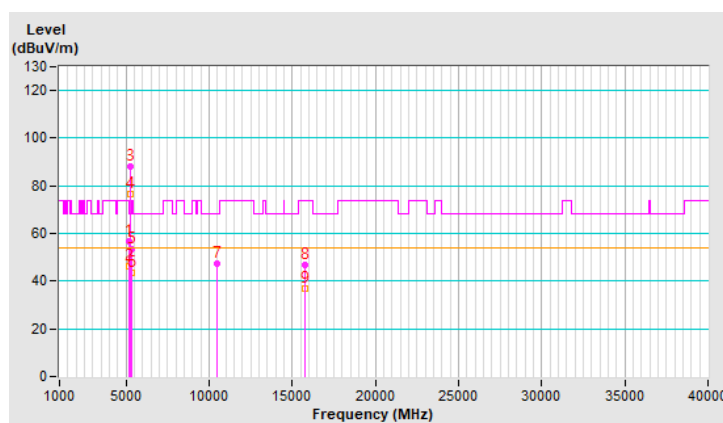
Mode A

| | | | |
|----------------------|------------------|-------------------------------|--|
| RF Mode | 802.11ax (HE160) | Channel | CH 50 : 5250 MHz |
| Frequency Range | 1 GHz ~ 40 GHz | Detector Function & Bandwidth | (PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz |
| Input Power (System) | 120 Vac, 60Hz | Environmental Conditions | 25°C, 66% RH |
| Tested By | Tom Yang | | |

| 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 | 5146.90 | 56.5 PK | 74.0 | -17.5 | 1.37 H | 115 | 52.0 | 4.5 |
| 2 | 5146.90 | 46.5 AV | 54.0 | -7.5 | 1.37 H | 115 | 42.0 | 4.5 |
| 3 | *5250.00 | 88.0 PK | | | 1.37 H | 115 | 84.0 | 4.0 |
| 4 | *5250.00 | 76.4 AV | | | 1.37 H | 115 | 72.4 | 4.0 |
| 5 | 5356.42 | 53.4 PK | 74.0 | -20.6 | 1.37 H | 115 | 49.1 | 4.3 |
| 6 | 5356.42 | 43.4 AV | 54.0 | -10.6 | 1.37 H | 115 | 39.1 | 4.3 |
| 7 | #10500.00 | 47.5 PK | 68.2 | -20.7 | 2.70 H | 57 | 33.2 | 14.3 |
| 8 | 15750.00 | 46.8 PK | 74.0 | -27.2 | 2.18 H | 317 | 32.6 | 14.2 |
| 9 | 15750.00 | 36.8 AV | 54.0 | -17.2 | 2.18 H | 317 | 22.6 | 14.2 |

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.
6. " # " : The radiated frequency is out of the restricted band.

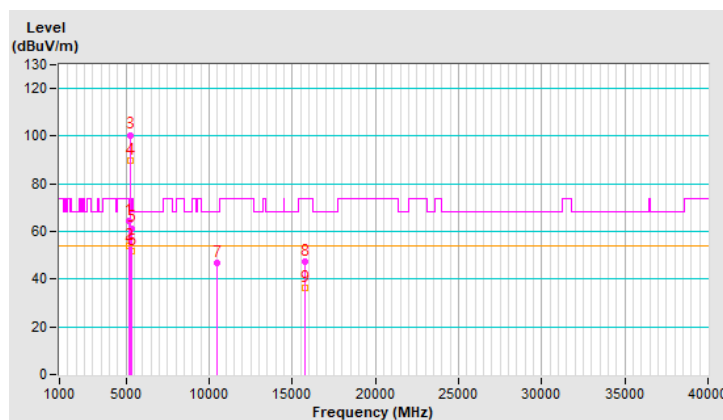


| | | | |
|----------------------|------------------|-------------------------------|--|
| RF Mode | 802.11ax (HE160) | Channel | CH 50 : 5250 MHz |
| Frequency Range | 1 GHz ~ 40 GHz | Detector Function & Bandwidth | (PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz |
| Input Power (System) | 120 Vac, 60Hz | Environmental Conditions | 25°C, 66% RH |
| Tested By | Tom Yang | | |

| 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 | 5147.09 | 64.6 PK | 74.0 | -9.4 | 2.08 V | 273 | 60.1 | 4.5 |
| 2 | 5147.09 | 53.8 AV | 54.0 | -0.2 | 2.08 V | 273 | 49.3 | 4.5 |
| 3 | *5250.00 | 100.5 PK | | | 2.08 V | 273 | 96.5 | 4.0 |
| 4 | *5250.00 | 89.7 AV | | | 2.08 V | 273 | 85.7 | 4.0 |
| 5 | 5357.66 | 61.4 PK | 74.0 | -12.6 | 2.08 V | 273 | 57.1 | 4.3 |
| 6 | 5357.66 | 51.6 AV | 54.0 | -2.4 | 2.08 V | 273 | 47.3 | 4.3 |
| 7 | #10500.00 | 46.8 PK | 68.2 | -21.4 | 1.78 V | 267 | 32.5 | 14.3 |
| 8 | 15750.00 | 47.6 PK | 74.0 | -26.4 | 1.97 V | 180 | 33.4 | 14.2 |
| 9 | 15750.00 | 36.3 AV | 54.0 | -17.7 | 1.97 V | 180 | 22.1 | 14.2 |

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.
6. " # " : The radiated frequency is out of the restricted band.



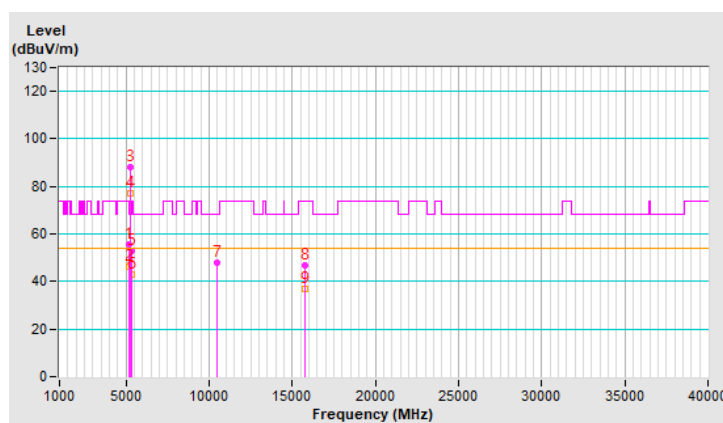
Mode B

| | | | |
|-----------------------------|------------------|--|--|
| RF Mode | 802.11ax (HE160) | Channel | CH 50 : 5250 MHz |
| Frequency Range | 1 GHz ~ 40 GHz | Detector Function & Bandwidth | (PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz |
| Input Power (System) | 120 Vac, 60Hz | Environmental Conditions | 25°C, 67% RH |
| Tested By | Tom Yang | | |

| 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 | 5146.79 | 55.8 PK | 74.0 | -18.2 | 1.28 H | 90 | 51.3 | 4.5 |
| 2 | 5146.79 | 46.1 AV | 54.0 | -7.9 | 1.28 H | 90 | 41.6 | 4.5 |
| 3 | *5250.00 | 88.1 PK | | | 1.28 H | 90 | 84.1 | 4.0 |
| 4 | *5250.00 | 77.0 AV | | | 1.28 H | 90 | 73.0 | 4.0 |
| 5 | 5356.28 | 52.9 PK | 74.0 | -21.1 | 1.28 H | 90 | 48.6 | 4.3 |
| 6 | 5356.28 | 42.9 AV | 54.0 | -11.1 | 1.28 H | 90 | 38.6 | 4.3 |
| 7 | #10500.00 | 47.9 PK | 68.2 | -20.3 | 2.68 H | 45 | 33.6 | 14.3 |
| 8 | 15750.00 | 46.8 PK | 74.0 | -27.2 | 2.18 H | 301 | 32.6 | 14.2 |
| 9 | 15750.00 | 37.0 AV | 54.0 | -17.0 | 2.18 H | 301 | 22.8 | 14.2 |

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.
6. " # ": The radiated frequency is out of the restricted band.

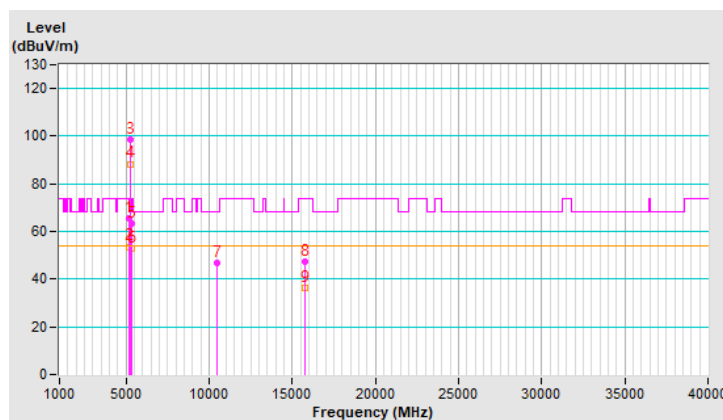


| | | | |
|----------------------|------------------|-------------------------------|--|
| RF Mode | 802.11ax (HE160) | Channel | CH 50 : 5250 MHz |
| Frequency Range | 1 GHz ~ 40 GHz | Detector Function & Bandwidth | (PK) RB = 1 MHz, VB = 3 MHz (AV) RB = 1 MHz, VB = 10 Hz |
| Input Power (System) | 120 Vac, 60Hz | Environmental Conditions | 25°C, 67% RH |
| Tested By | Tom Yang | | |

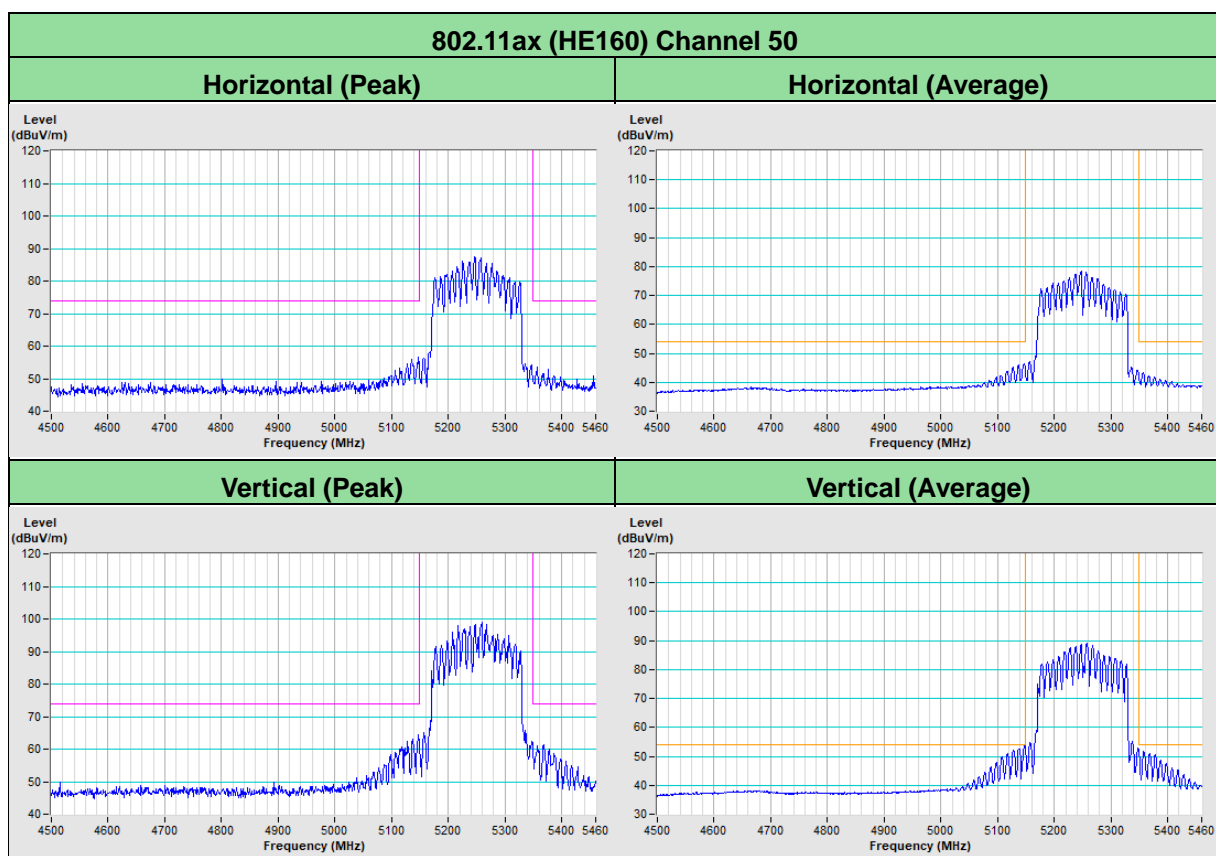
| Antenna Polarity & Test Distance : Vertical at 3 m | | | | | | | | |
|--|-----------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1 | 5147.15 | 65.7 PK | 74.0 | -8.3 | 2.20 V | 252 | 61.2 | 4.5 |
| 2 | 5147.15 | 53.7 AV | 54.0 | -0.3 | 2.20 V | 252 | 49.2 | 4.5 |
| 3 | *5250.00 | 98.8 PK | | | 2.20 V | 252 | 94.8 | 4.0 |
| 4 | *5250.00 | 88.4 AV | | | 2.20 V | 252 | 84.4 | 4.0 |
| 5 | 5356.98 | 63.2 PK | 74.0 | -10.8 | 2.20 V | 252 | 58.9 | 4.3 |
| 6 | 5356.98 | 53.1 AV | 54.0 | -0.9 | 2.20 V | 252 | 48.8 | 4.3 |
| 7 | #10500.00 | 47.0 PK | 68.2 | -21.2 | 1.72 V | 251 | 32.7 | 14.3 |
| 8 | 15750.00 | 47.6 PK | 74.0 | -26.4 | 1.99 V | 193 | 33.4 | 14.2 |
| 9 | 15750.00 | 36.1 AV | 54.0 | -17.9 | 1.99 V | 193 | 21.9 | 14.2 |

Remarks:

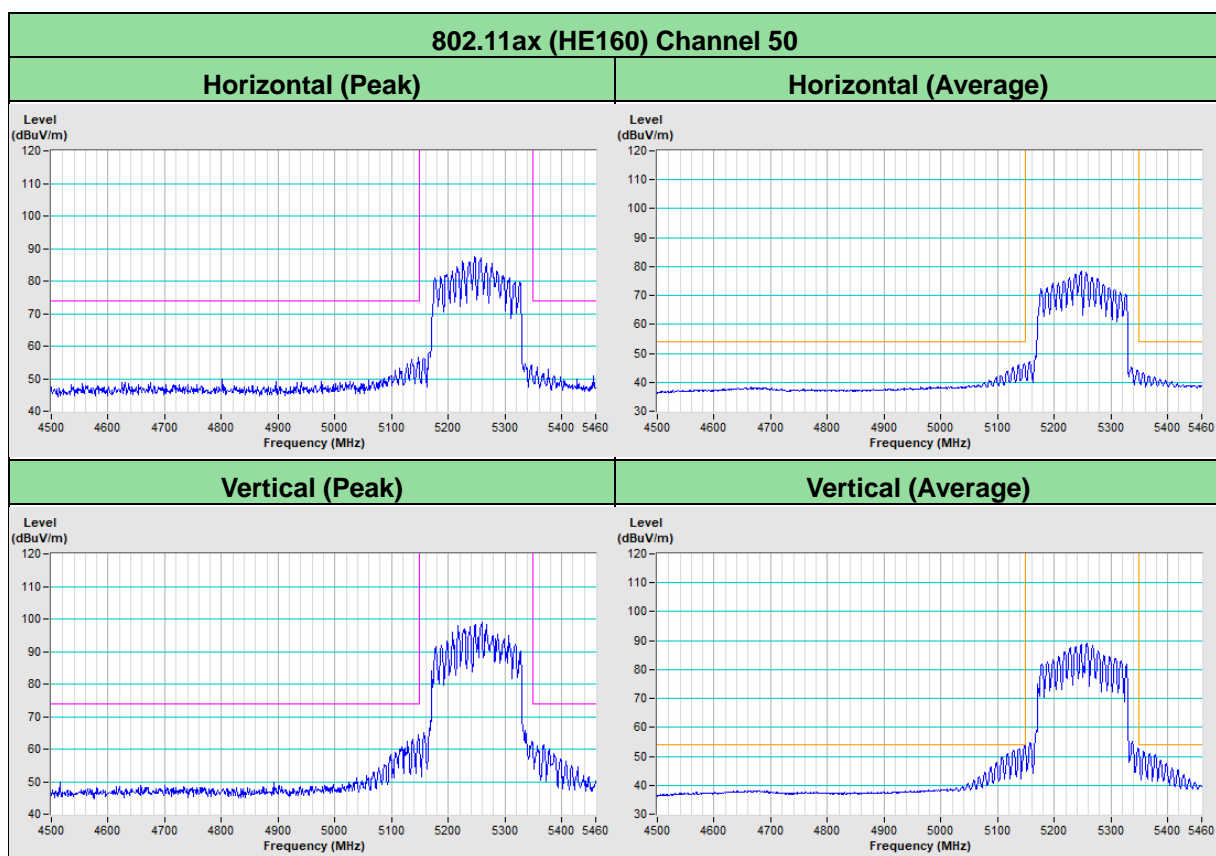
1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " * " : Fundamental frequency,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



Plot of Band Edge Mode A



Plot of Band Edge Mode B



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.

--- END ---