

Partial FCC Test Report (Spot Check)

Report No.: RFBGTL-WTW-P22020477-1

FCC ID: APYHRO00315

Received Date: Feb. 19, 2022

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Issued Date: May 30, 2022

Applicant: SHARP Corporation Mobile Communication BU

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**FCC Registration /
Designation Number:** 788550 / TW0003



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Release Control Record

| Issue No. | Description | Date Issued |
|------------------------|-------------------|--------------|
| RFBGTL-WTW-P22020477-1 | Original release. | May 30, 2022 |

1 Certificate of Conformity

Product: Smart Phone

Brand: SHARP

Sample Status: Engineering sample

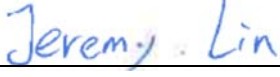
Applicant: SHARP Corporation Mobile Communication BU

Test Date: May 03 ~ May 11, 2022

Standards: 47 CFR FCC Part 15, Subpart E (Section 15.407)
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:** May 30, 2022
Polly Chien / Specialist

Approved by :  , **Date:** May 30, 2022
Jeremy Lin / Project Engineer

2 Summary of Test Results

| 47 CFR FCC Part 15, Subpart E (Section 15.407) | | | |
|--|--|--------|--|
| FCC Clause | Test Item | Result | Remarks |
| 15.407(b)(9) | AC Power Conducted Emissions | Pass | Meet the requirement of limit. Minimum passing margin is -16.50 at 0.50190MHz. |
| 15.407(b)(1/2/3/4(i/ii)/9) | Radiated Emissions & Band Edge Measurement | Pass | Meet the requirement of limit. Minimum passing margin is -10.0 at 11400.00MHz. |
| 15.407(a)(1/2/3) | Max Average Transmit Power | Pass | Meet the requirement of limit. |
| --- | Occupied Bandwidth Measurement | - | Reference only. |
| 15.407(a)(1/2/3) | Peak Power Spectral Density | N/A | Refer to Note |
| 15.407(e) | 6dB bandwidth | N/A | Refer to Note |
| 15.407(g) | Frequency Stability | N/A | Refer to Note |
| 15.203 | Antenna Requirement | Pass | Antenna connector is I-PEX not a standard connector. |

Note:

1. This report is a partial report, only spot check test items such as Radiated Emissions and Conducted Power test chosen the worst channel of original report was were performed for this report. Refer to original report for the other test data.
2. For U-NII-3 band compliance with rule part 15.407(b)(4)(i), the OOB test plots were recorded in Annex A.
3. For U-NII-1, U-NII-2A, U-NII-2C band compliance with rule 15.407(b) of the band-edge items, the test plots were recorded in Annex B. Test Procedures refer to report 4.1.3.
4. 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 | Frequency | Expanded Uncertainty (k=2) (±) |
|------------------------------------|------------------|--------------------------------|
| Conducted Emissions at mains ports | 150kHz ~ 30MHz | 2.79 dB |
| Radiated Emissions up to 1 GHz | 9kHz ~ 30MHz | 2.44 dB |
| | 30MHz ~ 200MHz | 2.93 dB |
| | 200MHz ~ 1000MHz | 2.95 dB |
| Radiated Emissions above 1 GHz | 1GHz ~ 18GHz | 2.26 dB |
| | 18GHz ~ 40GHz | 1.94 dB |

2.2 Modification Record

There were no modifications required for compliance.

3 General Information

3.1 General Description of EUT

| | |
|-----------------------|---|
| Product | Smart Phone |
| Brand | SHARP |
| Sample Status | Engineering sample |
| Power Supply Rating | 5.0Vdc (from adapter) 3.87Vdc (Battery) |
| Modulation Type | 256QAM, 64QAM, 16QAM, QPSK, BPSK for OFDM 1024QAM, 256QAM, 64QAM, 16QAM, QPSK, BPSK for OFDMA |
| Modulation Technology | OFDM, OFDMA |
| Transfer Rate | 802.11a: 54/48/36/24/18/12/9/6Mbps 802.11n: up to 300Mbps 802.11ac: up to 1733.3Mbps 802.11ax: up to 2402Mbps |
| Operating Frequency | 5180 ~ 5320MHz, 5500 ~ 5720MHz, 5745 ~ 5825MHz |
| Number of Channel | 5180 ~ 5320MHz: 802.11a, 802.11n (HT20), 802.11ac (VHT20), 802.11ax (HE20): 8 802.11n (HT40), 802.11ac (VHT40), 802.11ax (HE40): 4 802.11ac (VHT80), 802.11ax (HE80): 2 802.11ac (VHT160), 802.11ax (HE160): 1 5500 ~ 5720MHz: 802.11a, 802.11n (HT20), 802.11ac (VHT20), 802.11ax (HE20): 12 802.11n (HT40), 802.11ac (VHT40), 802.11ax (HE40): 6 802.11ac (VHT80), 802.11ax (HE80): 3 802.11ac (VHT160), 802.11ax (HE160): 1 5745 ~ 5825MHz: 802.11a, 802.11n (HT20), 802.11ac (VHT20), 802.11ax (HE20): 5 802.11n (HT40), 802.11ac (VHT40), 802.11ax (HE40): 2 802.11ac (VHT80), 802.11ax (HE80): 1 |
| Output Power | Refer to note |
| Antenna Type | Refer to note |
| Antenna Connector | Refer to note |
| Accessory Device | Refer to note |
| Cable Supplied | Refer to note |

Note:

- This report is a supplementary report to the original BV CPS report no.: RFBGTL-WTW-P22020475-1. Exhibit prepared for FCC Spot Check Verification report, the format, test items and amount of spot-check test data are decided by applicant's engineering judgment, for more details please refer to declaration letter exhibit. Radiated emission and output power verification worst test refer to original report.
- There are differences between FCC ID: APYHRO00314 & FCC ID: APYHRO00315:

| | | |
|----------|-------------|-----------------|
| FCC ID | APYHRO00314 | APYHRO00315 |
| FM Radio | Supports | Doesn't support |

- The EUT incorporates a MIMO function. Physically, the EUT provides 2 completed transmitters and 2 receivers.

| Modulation Mode | TX Function |
|-------------------|-------------|
| 802.11a | 2TX |
| 802.11n (HT20) | 2TX |
| 802.11n (HT40) | 2TX |
| 802.11ac (VHT20) | 2TX |
| 802.11ac (VHT40) | 2TX |
| 802.11ac (VHT80) | 2TX |
| 802.11ac (VHT160) | 2TX |
| 802.11ax (HE20) | 2TX |
| 802.11ax (HE40) | 2TX |
| 802.11ax (HE80) | 2TX |
| 802.11ax (HE160) | 2TX |

* The bandwidth and modulation are similar for HT20/HT40 on 802.11n mode and VHT20/VHT40 on 802.11ac mode and HE20/HE40 on 802.11ax mode. The bandwidth and modulation are similar for VHT80/VHT160 on 802.11ac mode and HE80/HE160 on 802.11ax mode. Therefore the investigated worst case is the representative mode in test report. (Final test mode refer section 3.2.1)

- The EUT contains following support units.

| Product | Brand | Model | Description |
|--------------------------|--------------|---------------|---|
| Adapter (Support unit) | Salom | XN-2QC25 | Input: 100-240Vac, 50/60Hz, 0.2A Output: 5.0Vdc, 800mA |
| Battery | - | - | 3.87Vdc, Rated 4870mAh (18.9Wh), Typ. 5000mAh (19.4Wh) |
| Headset (Support unit) | Ambibio | AB-HI02JS | - |
| USB cable (Support unit) | Luxshare-ICT | L6KU2007-CS-H | 0.95m shielded cable without core |

- The antenna used in this EUT is listed as below table:

| Ant. Type | Connector | Ant. No.: | Antenna Gain (dBi) | | | | |
|-----------|-----------|-----------|--------------------|---------------|---------------|---------------|---------------|
| | | | 2400-2472 MHz | 5150-5250 MHz | 5250-5350 MHz | 5470-5725 MHz | 5725-5850 MHz |
| PIFA | I-PEX | 4 | -2.7 | -2.5 | -3.6 | -3.8 | -1.9 |
| | | 8 | 0.0 | -2.9 | -2.4 | -1.6 | -0.9 |

6. Output Power are as below:

| Frequency (MHz) | Output Power (mW) | | | | | | |
|-----------------|-------------------|------------|--------|--------|--------|--------|--------|
| | Full RU | Partial RU | | | | | |
| | | RU26 | RU52 | RU106 | RU242 | RU486 | RU996 |
| 5180-5250 | 30.558 | 12.010 | 11.832 | 11.785 | 11.702 | 11.576 | 10.900 |
| 5250-5320 | 30.834 | 12.109 | 11.984 | 11.901 | 11.804 | 11.697 | 0.003 |
| 5500-5720 | 30.622 | 12.262 | 12.178 | 12.055 | 11.957 | 11.739 | 11.404 |
| 5745-5825 | 30.622 | 12.167 | 11.956 | 11.914 | 11.860 | 11.470 | - |

7. 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

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 | 44 | 5220 MHz |
| 40 | 5200 MHz | 48 | 5240 MHz |
| 52 | 5260 MHz | 60 | 5300 MHz |
| 56 | 5280 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 | 46 | 5230 MHz |
| 54 | 5270 MHz | 62 | 5310 MHz |

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

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

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

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

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

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

For 5745 ~ 5825MHz:

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

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

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

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

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

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

3.2.1 Test Mode Applicability and Tested Channel Detail

| EUT Configure Mode | Applicable to | | | | Description |
|--------------------|---------------|-------|-----|---|-------------|
| | RE \geq 1G | RE<1G | PLC | P | |
| - | √ | √ | √ | √ | - |

Where RE \geq 1G: Radiated Emission above 1GHz & Bandedge Measurement
 RE<1G: Radiated Emission below 1GHz
 PLC: Power Line Conducted Emission
 P: Conducted Output Power Measurement

Note:

1. The EUT had been pre-tested on the positioned of each 3 axis. The worst case was found when positioned on Y-plane.
2. Radiated emission test (below 1GHz) and power line conducted emission test items chosen the worst maximum power channel for final testing.

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 | Mode | Frequency Band (MHz) | Available Channel | Tested Channel | Modulation Technology | Data Rate (Mbps) |
|--------------------|-----------------|----------------------|-------------------|----------------|-----------------------|------------------|
| - | 802.11ax (HE20) | 5180-5250 | 36 to 48 | 40 | OFDMA | MCS0 |
| - | 802.11ax (HE20) | 5250-5320 | 52 to 64 | 52, 64 | OFDMA | MCS0 |
| - | 802.11ax (HE20) | 5500-5720 | 100 to 144 | 140 | OFDMA | MCS0 |
| - | 802.11ax (HE20) | 5745-5825 | 149 to 165 | 165 | OFDMA | MCS0 |

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 | Mode | Frequency Band (MHz) | Available Channel | Tested Channel | Modulation Technology | Data Rate (Mbps) |
|--------------------|-----------------|----------------------|-------------------|----------------|-----------------------|------------------|
| - | 802.11ax (HE20) | 5180-5250 | 36 to 48 | 165 | OFDMA | MCS0 |
| | 802.11ax (HE20) | 5250-5320 | 52 to 64 | | OFDMA | MCS0 |
| | 802.11ax (HE20) | 5500-5720 | 100 to 144 | | OFDMA | MCS0 |
| | 802.11ax (HE20) | 5745-5825 | 149 to 165 | | OFDMA | MCS0 |

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 | Mode | Frequency Band (MHz) | Available Channel | Tested Channel | Modulation Technology | Data Rate (Mbps) |
|--------------------|-----------------|----------------------|-------------------|----------------|-----------------------|------------------|
| - | 802.11ax (HE20) | 5180-5250 | 36 to 48 | 165 | OFDMA | MCS0 |
| | 802.11ax (HE20) | 5250-5320 | 52 to 64 | | OFDMA | MCS0 |
| | 802.11ax (HE20) | 5500-5720 | 100 to 144 | | OFDMA | MCS0 |
| | 802.11ax (HE20) | 5745-5825 | 149 to 165 | | OFDMA | MCS0 |

Transmit Power 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 | Mode | Frequency Band (MHz) | Available Channel | Tested Channel | Modulation Technology | Data Rate (Mbps) |
|--------------------|-------------------|----------------------|----------------------|--------------------|-----------------------|------------------|
| - | 802.11a | 5180-5250 | 36 to 48 | 36, 40, 48 | OFDM | 6.0 |
| | 802.11n (HT20) | | 36 to 48 | 36, 40, 48 | OFDM | MCS0 |
| | 802.11n (HT40) | | 38 to 46 | 38, 46 | OFDM | MCS0 |
| | 802.11ac (VHT20) | | 36 to 48 | 36, 40, 48 | OFDM | MCS0 |
| | 802.11ac (VHT40) | | 38 to 46 | 38, 46 | OFDM | MCS0 |
| | 802.11ac (VHT80) | | 42 | 42 | OFDM | MCS0 |
| | 802.11ac (VHT160) | | 50 | 50 | OFDM | MCS0 |
| | 802.11ax (HE20) | | 36 to 48 | 36, 40, 48 | OFDMA | MCS0 |
| | 802.11ax (HE40) | | 38 to 46 | 38, 46 | OFDMA | MCS0 |
| | 802.11ax (HE80) | | 42 | 42 | OFDMA | MCS0 |
| | 802.11ax (HE160) | | 50 | 50 | OFDMA | MCS0 |
| | - | | 802.11a | 5250-5320 | 52 to 64 | 52, 60, 64 |
| 802.11n (HT20) | | 52 to 64 | 52, 60, 64 | | OFDM | MCS0 |
| 802.11n (HT40) | | 54 to 62 | 54, 62 | | OFDM | MCS0 |
| 802.11ac (VHT20) | | 52 to 64 | 52, 60, 64 | | OFDM | MCS0 |
| 802.11ac (VHT40) | | 54 to 62 | 54, 62 | | OFDM | MCS0 |
| 802.11ac (VHT80) | | 58 | 58 | | OFDM | MCS0 |
| 802.11ac (VHT160) | | 50 | 50 | | OFDM | MCS0 |
| 802.11ax (HE20) | | 52 to 64 | 52, 60, 64 | | OFDMA | MCS0 |
| 802.11ax (HE40) | | 54 to 62 | 54, 62 | | OFDMA | MCS0 |
| 802.11ax (HE80) | | 58 | 58 | | OFDMA | MCS0 |
| 802.11ax (HE160) | | 50 | 50 | | OFDMA | MCS0 |
| EUT Configure Mode | | Mode | Frequency Band (MHz) | | Available Channel | Tested Channel |
| - | 802.11a | 5500-5720 | 100 to 144 | 100, 116, 140, 144 | OFDM | 6.0 |
| | 802.11n (HT20) | | 100 to 144 | 100, 116, 140, 144 | OFDM | MCS0 |
| | 802.11n (HT40) | | 102 to 142 | 102, 110, 134, 142 | OFDM | MCS0 |
| | 802.11ac (VHT20) | | 100 to 144 | 100, 116, 140, 144 | OFDM | MCS0 |
| | 802.11ac (VHT40) | | 102 to 142 | 102, 110, 134, 142 | OFDM | MCS0 |
| | 802.11ac (VHT80) | | 106 to 138 | 106, 122, 138 | OFDM | MCS0 |
| | 802.11ac (VHT160) | | 114 | 114 | OFDM | MCS0 |
| | 802.11ax (HE20) | | 100 to 144 | 100, 116, 140, 144 | OFDMA | MCS0 |
| | 802.11ax (HE40) | | 102 to 142 | 102, 110, 134, 142 | OFDMA | MCS0 |
| | 802.11ax (HE80) | | 106 to 138 | 106, 122, 138 | OFDMA | MCS0 |
| | 802.11ax (HE160) | | 114 | 114 | OFDMA | MCS0 |

| EUT Configure Mode | Mode | Frequency Band (MHz) | Available Channel | Tested Channel | Modulation Technology | Data Rate (Mbps) |
|--------------------|------------------|----------------------|-------------------|----------------|-----------------------|------------------|
| - | 802.11a | 5745-5825 | 149 to 165 | 149, 157, 165 | OFDM | 6.0 |
| | 802.11n (HT20) | | 149 to 165 | 149, 157, 165 | OFDM | MCS0 |
| | 802.11n (HT40) | | 151 to 159 | 151, 159 | OFDM | MCS0 |
| | 802.11ac (VHT20) | | 149 to 165 | 149, 157, 165 | OFDM | MCS0 |
| | 802.11ac (VHT40) | | 151 to 159 | 151, 159 | OFDM | MCS0 |
| | 802.11ac (VHT80) | | 155 | 155 | OFDM | MCS0 |
| | 802.11ax (HE20) | | 149 to 165 | 149, 157, 165 | OFDMA | MCS0 |
| | 802.11ax (HE40) | | 151 to 159 | 151, 159 | OFDMA | MCS0 |
| | 802.11ax (HE80) | | 155 | 155 | OFDMA | MCS0 |

Partial RU

| EUT Configure Mode | Mode | Frequency Band (MHz) | Available Channel | Tested Channel | Modulation Technology | Data Rate (Mbps) |
|--------------------|------------------|----------------------|-------------------|--------------------|-----------------------|------------------|
| - | 802.11ax (HE20) | 5180-5250 | 36 to 48 | 36, 40, 48 | OFDMA | MCS0 |
| | 802.11ax (HE40) | | 38 to 46 | 38, 46 | OFDMA | MCS0 |
| | 802.11ax (HE80) | | 42 | 42 | OFDMA | MCS0 |
| | 802.11ax (HE160) | | 50 | 50 | OFDMA | MCS0 |
| - | 802.11ax (HE20) | 5250-5320 | 52 to 64 | 52, 60, 64 | OFDMA | MCS0 |
| | 802.11ax (HE40) | | 54 to 62 | 54, 62 | OFDMA | MCS0 |
| | 802.11ax (HE80) | | 58 | 58 | OFDMA | MCS0 |
| | 802.11ax (HE160) | | 50 | 50 | OFDMA | MCS0 |
| - | 802.11ax (HE20) | 5500-5720 | 100 to 144 | 100, 116, 140, 144 | OFDMA | MCS0 |
| | 802.11ax (HE40) | | 102 to 142 | 102, 110, 134, 142 | OFDMA | MCS0 |
| | 802.11ax (HE80) | | 106 to 138 | 106, 122, 138 | OFDMA | MCS0 |
| | 802.11ax (HE160) | | 114 | 114 | OFDMA | MCS0 |
| - | 802.11ax (HE20) | 5745-5825 | 149 to 165 | 149, 157, 165 | OFDMA | MCS0 |
| | 802.11ax (HE40) | | 151 to 159 | 151, 159 | OFDMA | MCS0 |
| | 802.11ax (HE80) | | 155 | 155 | OFDMA | MCS0 |

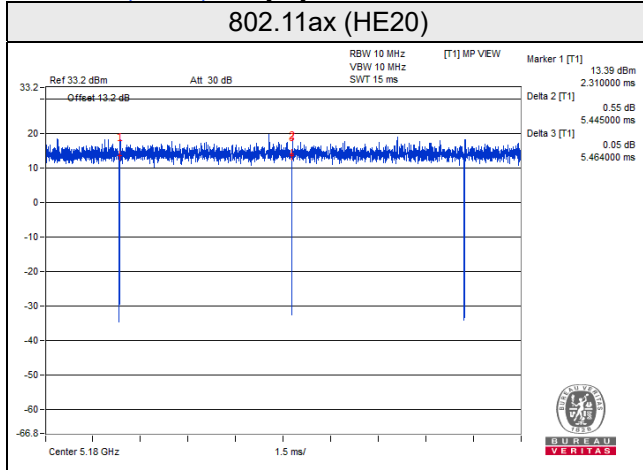
Test Condition:

| Applicable to | Environmental Conditions | Input Power | Tested by |
|-----------------------|--------------------------|--------------|--------------|
| RE _≥ 1G | 21 deg. C, 67% RH | 120Vac, 60Hz | Thomas Cheng |
| RE _{<} 1G | 21 deg. C, 67% RH | 120Vac, 60Hz | Thomas Cheng |
| PLC | 21 deg. C, 68% RH | 120Vac, 60Hz | Thomas Cheng |
| P | 25 deg. C, 60% RH | 120Vac, 60Hz | Wayne Lin |

3.3 Duty Cycle of Test Signal

Duty cycle of test signal is > 98 %, duty factor is not required.

802.11ax (HE20): Duty cycle = 5.445ms/5.464ms = 0.997



3.4 Description of Support Units

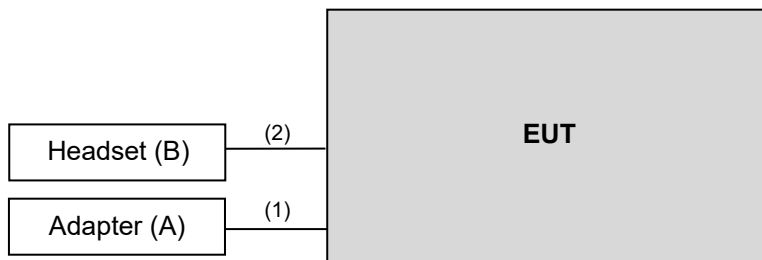
The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

| ID | Product | Brand | Model No. | Serial No. | FCC ID | Remarks |
|----|---------|---------|-----------|------------|--------|--------------------|
| A. | Adapter | Salom | XN-2QC25 | NA | NA | Provided by client |
| B. | Headset | Ambibio | AB-HI02JS | NA | NA | Provided by client |

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

| ID | Descriptions | Qty. | Length (m) | Shielding (Yes/No) | Cores (Qty.) | Remarks |
|----|--------------|------|------------|--------------------|--------------|--------------------|
| 1. | USB cable | 1 | 0.95 | Y | 0 | Provided by client |
| 2. | Audio cable | 1 | 1.1 | N | 0 | Provided by client |

3.4.1 Configuration of System under Test



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 E (15.407)

ANSI C63.10:2013

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

References Test Guidance:

KDB 789033 D02 General UNII Test Procedure New Rules v02r01

KDB 662911 D01 Multiple Transmitter Output v02r01

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.

| 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.

Limits of unwanted emission out of the restricted bands

| Applicable To | | Limit | |
|--|---|---|---|
| 789033 D02 General UNII Test Procedure New Rules v02r01 | | Field Strength at 3m | |
| | | PK: 74 (dBuV/m) | AV: 54 (dBuV/m) |
| Frequency Band | Applicable To | EIRP Limit | Equivalent Field Strength at 3m |
| 5150~5250 MHz | 15.407(b)(1) | PK: -27 (dBm/MHz) | PK: 68.2(dBuV/m) |
| 5250~5350 MHz | 15.407(b)(2) | | |
| 5470~5725 MHz | 15.407(b)(3) | | |
| 5725~5850 MHz | <input checked="" type="checkbox"/> 15.407(b)(4)(i) | PK: -27 (dBm/MHz) ^{*1} PK: 10 (dBm/MHz) ^{*2} PK: 15.6 (dBm/MHz) ^{*3} PK: 27 (dBm/MHz) ^{*4} | PK: 68.2(dBuV/m) ^{*1} PK: 105.2 (dBuV/m) ^{*2} PK: 110.8(dBuV/m) ^{*3} PK: 122.2 (dBuV/m) ^{*4} |
| | <input type="checkbox"/> 15.407(b)(4)(ii) | Emission limits in section 15.247(d) | |
| ^{*1} beyond 75 MHz or more above of the band edge. | | ^{*2} below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above. | |
| ^{*3} below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above. | | ^{*4} from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge. | |

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

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

4.1.2 Test Instruments

| Description & Manufacturer | Model No. | Serial No. | Cal. Date | Cal. Due |
|--|-------------------|---------------------------|---------------|---------------|
| Spectrum Analyzer Agilent | N9010A | MY52220314 | Dec. 03, 2021 | Dec. 02, 2022 |
| Spectrum Analyzer ROHDE & SCHWARZ | FSU43 | 101261 | Apr. 11, 2022 | Apr. 10, 2023 |
| HORN Antenna SCHWARZBECK | BBHA 9120D | 9120D-969 | Nov. 14, 2021 | Nov. 13, 2022 |
| BILOG Antenna SCHWARZBECK | VULB 9168 | 9168-472 | Oct. 28, 2021 | Oct. 27, 2022 |
| Fixed Attenuator WOKEN | MDCS18N-10 | MDCS18N-10-01 | Apr. 05, 2022 | Apr. 04, 2023 |
| Loop Antenna TESEQ | HLA 6121 | 45745 | Jul. 21, 2021 | Jul. 20, 2022 |
| Preamplifier EMCI | EMC 012645 | 980115 | Oct. 05, 2021 | Oct. 04, 2022 |
| RF Coaxial Cable EMCI | EMC104-SM-SM-8000 | 171005 | Oct. 05, 2021 | Oct. 04, 2022 |
| RF Coaxial Cable HUBER+SUHNNER | SUCOFLEX 104 | EMC104-SM-SM-1000(140807) | Oct. 05, 2021 | Oct. 04, 2022 |
| RF Coaxial Cable WOKEN | 8D-FB | Cable-Ch10-01 | Oct. 05, 2021 | Oct. 04, 2022 |
| Boresight Antenna Fixture | FBA-01 | FBA-SIP01 | NA | NA |
| Software BV ADT | E3 6.120103 | NA | NA | NA |
| Antenna Tower MF | MFA-440H | NA | NA | NA |
| Turn Table MF | MFT-201SS | NA | NA | NA |
| Antenna Tower & Turn Table Controller MF | MF-7802 | NA | NA | NA |
| Peak Power Analyzer KEYSIGHT | 8990B | MY51000485 | Jan. 18, 2022 | Jan. 17, 2023 |
| Wideband Power Sensor KEYSIGHT | N1923A | MY58020002 | Jan. 17, 2022 | Jan. 16, 2023 |

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 HwaYa Chamber 10.

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 detect 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:

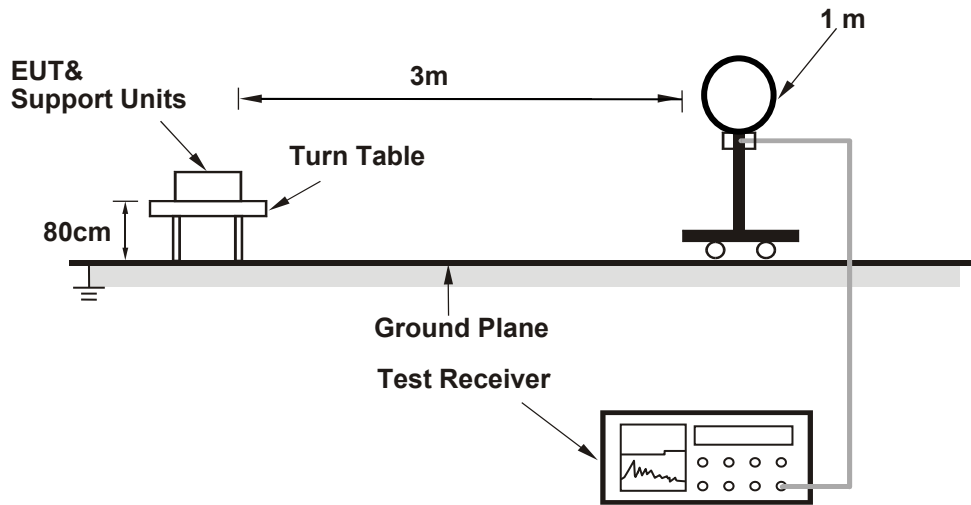
1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection (QP) at frequency below 1GHz.
2. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz for Peak detection (PK) at frequency above 1GHz.
3. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is $\geq 1/T$ (Duty cycle < 98%) or 10Hz (Duty cycle $\geq 98\%$) for Average detection (AV) at frequency above 1GHz. (802.11ax (HE20): 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

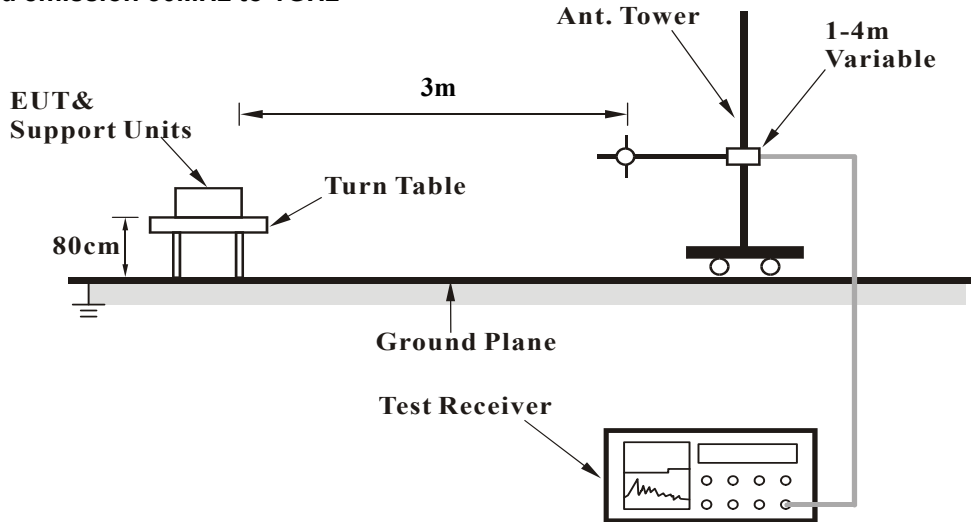
No deviation.

4.1.5 Test Setup

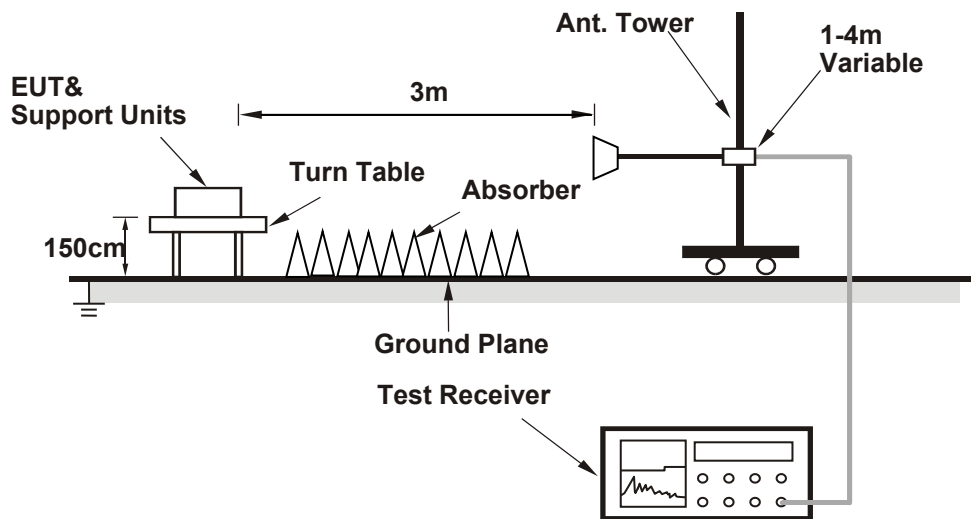
For Radiated emission below 30MHz



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

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

4.1.7 Test Results

Above 1GHz data:

| | | | |
|-----------------|--------------------|-------------------|---------------------------|
| RF Mode | TX 802.11ax (HE20) | Channel | CH 40 : 5200 MHz |
| Frequency Range | 1GHz ~ 40GHz | Detector Function | Peak (PK) 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 | *5200.00 | 100.4 PK | | | 1.01 H | 158 | 64.3 | 36.1 |
| 2 | *5200.00 | 88.9 AV | | | 1.01 H | 158 | 52.8 | 36.1 |
| 3 | #10400.00 | 52.4 PK | 68.2 | -15.8 | 2.95 H | 285 | 58.4 | -6.0 |
| 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 | *5200.00 | 103.6 PK | | | 2.77 V | 260 | 67.5 | 36.1 |
| 2 | *5200.00 | 90.4 AV | | | 2.77 V | 260 | 54.3 | 36.1 |
| 3 | #10400.00 | 52.9 PK | 68.2 | -15.3 | 2.15 V | 88 | 58.9 | -6.0 |

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

| | | | |
|-----------------|--------------------|-------------------|---------------------------|
| RF Mode | TX 802.11ax (HE20) | Channel | CH 52 : 5260 MHz |
| Frequency Range | 1GHz ~ 40GHz | Detector Function | Peak (PK) 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 | 5150.00 | 51.0 PK | 74.0 | -23.0 | 1.01 H | 160 | 67.9 | -16.9 |
| 2 | 5150.00 | 40.4 AV | 54.0 | -13.6 | 1.01 H | 160 | 57.3 | -16.9 |
| 3 | *5260.00 | 100.3 PK | | | 1.01 H | 160 | 64.4 | 35.9 |
| 4 | *5260.00 | 88.3 AV | | | 1.01 H | 160 | 52.4 | 35.9 |
| 5 | #10520.00 | 52.3 PK | 68.2 | -15.9 | 3.89 H | 190 | 58.3 | -6.0 |

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 | 5150.00 | 51.5 PK | 74.0 | -22.5 | 2.69 V | 260 | 68.4 | -16.9 |
| 2 | 5150.00 | 40.6 AV | 54.0 | -13.4 | 2.69 V | 260 | 57.5 | -16.9 |
| 3 | *5260.00 | 104.5 PK | | | 2.69 V | 260 | 68.6 | 35.9 |
| 4 | *5260.00 | 92.6 AV | | | 2.69 V | 260 | 56.7 | 35.9 |
| 5 | #10520.00 | 52.8 PK | 68.2 | -15.4 | 2.13 V | 118 | 58.8 | -6.0 |

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

| | | | |
|-----------------|--------------------|-------------------|---------------------------|
| RF Mode | TX 802.11ax (HE20) | Channel | CH 64 : 5320 MHz |
| Frequency Range | 1GHz ~ 40GHz | Detector Function | Peak (PK) 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 | *5320.00 | 100.8 PK | | | 1.00 H | 183 | 65.0 | 35.8 |
| 2 | *5320.00 | 87.6 AV | | | 1.00 H | 183 | 51.8 | 35.8 |
| 3 | 5350.00 | 50.7 PK | 74.0 | -23.3 | 1.00 H | 183 | 67.5 | -16.8 |
| 4 | 5350.00 | 40.3 AV | 54.0 | -13.7 | 1.00 H | 183 | 57.1 | -16.8 |
| 5 | 10640.00 | 52.6 PK | 74.0 | -21.4 | 3.85 H | 300 | 58.3 | -5.7 |
| 6 | 10640.00 | 42.7 AV | 54.0 | -11.3 | 3.85 H | 300 | 48.4 | -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 | *5320.00 | 104.1 PK | | | 2.70 V | 262 | 68.3 | 35.8 |
| 2 | *5320.00 | 91.0 AV | | | 2.70 V | 262 | 55.2 | 35.8 |
| 3 | 5350.00 | 51.3 PK | 74.0 | -22.7 | 2.70 V | 262 | 68.1 | -16.8 |
| 4 | 5350.00 | 40.4 AV | 54.0 | -13.6 | 2.70 V | 262 | 57.2 | -16.8 |
| 5 | 10640.00 | 52.7 PK | 74.0 | -21.3 | 1.11 V | 217 | 58.4 | -5.7 |
| 6 | 10640.00 | 43.1 AV | 54.0 | -10.9 | 1.11 V | 217 | 48.8 | -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.

| | | | |
|-----------------|--------------------|-------------------|---------------------------|
| RF Mode | TX 802.11ax (HE20) | Channel | CH 140 : 5700 MHz |
| Frequency Range | 1GHz ~ 40GHz | Detector Function | Peak (PK) 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 | *5700.00 | 95.6 PK | | | 1.00 H | 188 | 58.8 | 36.8 |
| 2 | *5700.00 | 89.6 AV | | | 1.00 H | 188 | 52.8 | 36.8 |
| 3 | #5725.00 | 52.8 PK | 68.2 | -15.4 | 1.00 H | 188 | 68.8 | -16.0 |
| 4 | 11400.00 | 53.3 PK | 74.0 | -20.7 | 2.65 H | 122 | 58.1 | -4.8 |
| 5 | 11400.00 | 43.5 AV | 54.0 | -10.5 | 2.65 H | 122 | 48.3 | -4.8 |

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 | *5700.00 | 99.2 PK | | | 2.68 V | 275 | 62.4 | 36.8 |
| 2 | *5700.00 | 91.6 AV | | | 2.68 V | 275 | 54.8 | 36.8 |
| 3 | #5725.00 | 53.7 PK | 68.2 | -14.5 | 2.68 V | 275 | 69.7 | -16.0 |
| 4 | 11400.00 | 53.9 PK | 74.0 | -20.1 | 2.06 V | 235 | 58.7 | -4.8 |
| 5 | 11400.00 | 44.0 AV | 54.0 | -10.0 | 2.06 V | 235 | 48.8 | -4.8 |

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

| | | | |
|-----------------|--------------------|-------------------|---------------------------|
| RF Mode | TX 802.11ax (HE20) | Channel | CH 165 : 5825 MHz |
| Frequency Range | 1GHz ~ 40GHz | Detector Function | Peak (PK) 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 | #5622.40 | 51.1 PK | 68.2 | -17.1 | 1.02 H | 186 | 67.3 | -16.2 |
| 2 | *5825.00 | 96.1 PK | | | 1.02 H | 186 | 59.2 | 36.9 |
| 3 | *5825.00 | 85.2 AV | | | 1.02 H | 186 | 48.3 | 36.9 |
| 4 | #5930.40 | 51.0 PK | 68.2 | -17.2 | 1.02 H | 186 | 66.7 | -15.7 |
| 5 | 11650.00 | 52.8 PK | 74.0 | -21.2 | 3.95 H | 13 | 58.3 | -5.5 |
| 6 | 11650.00 | 42.9 AV | 54.0 | -11.1 | 3.95 H | 13 | 48.4 | -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 | #5644.80 | 51.5 PK | 68.2 | -16.7 | 2.74 V | 284 | 67.7 | -16.2 |
| 2 | *5825.00 | 99.8 PK | | | 2.74 V | 284 | 62.9 | 36.9 |
| 3 | *5825.00 | 88.7 AV | | | 2.74 V | 284 | 51.8 | 36.9 |
| 4 | #5943.20 | 50.8 PK | 68.2 | -17.4 | 2.74 V | 284 | 66.5 | -15.7 |
| 5 | 11650.00 | 53.3 PK | 74.0 | -20.7 | 3.30 V | 136 | 58.8 | -5.5 |
| 6 | 11650.00 | 43.0 AV | 54.0 | -11.0 | 3.30 V | 136 | 48.5 | -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.
6. " # " : The radiated frequency is out of the restricted band.

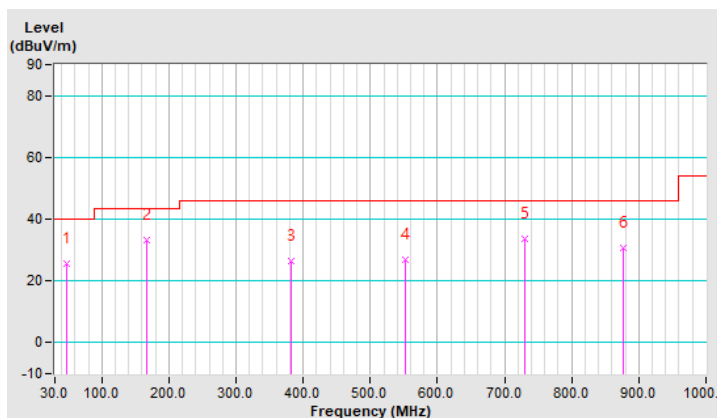
Below 1GHz Worst-Case Data:

| | | | |
|-----------------|--------------------|-------------------|-------------------|
| RF Mode | TX 802.11ax (HE20) | Channel | CH 165 : 5825 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 | 48.43 | 25.7 QP | 40.0 | -14.3 | 3.13 H | 210 | 38.2 | -12.5 |
| 2 | 167.75 | 33.1 QP | 43.5 | -10.4 | 2.25 H | 108 | 46.0 | -12.9 |
| 3 | 382.15 | 26.5 QP | 46.0 | -19.5 | 1.63 H | 148 | 36.0 | -9.5 |
| 4 | 552.88 | 26.7 QP | 46.0 | -19.3 | 3.13 H | 333 | 31.8 | -5.1 |
| 5 | 729.44 | 33.7 QP | 46.0 | -12.3 | 1.24 H | 160 | 34.9 | -1.2 |
| 6 | 875.93 | 30.7 QP | 46.0 | -15.3 | 2.70 H | 82 | 29.2 | 1.5 |

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. The other emission levels were very low against the limit of frequency range 30MHz ~ 1000MHz.
4. Margin value = Emission Level – Limit value.
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.

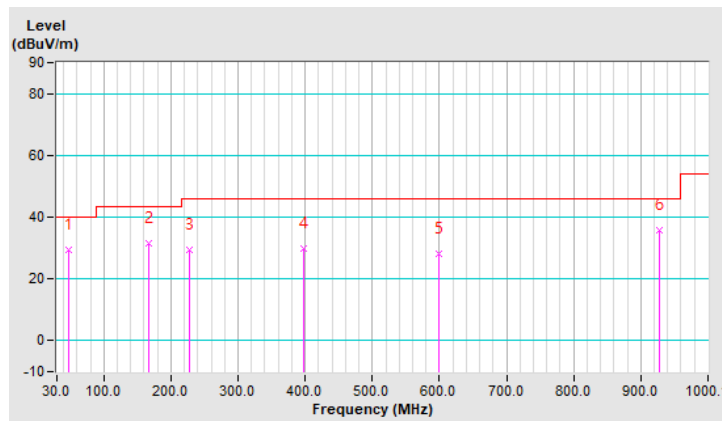


| | | | |
|-----------------|--------------------|-------------------|-------------------|
| RF Mode | TX 802.11ax (HE20) | Channel | CH 165 : 5825 MHz |
| Frequency Range | 9kHz ~ 1GHz | Detector Function | Quasi-Peak (QP) |

| 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 | 48.43 | 29.4 QP | 40.0 | -10.6 | 1.07 V | 284 | 41.9 | -12.5 |
| 2 | 167.75 | 31.7 QP | 43.5 | -11.8 | 3.85 V | 132 | 44.6 | -12.9 |
| 3 | 227.90 | 29.5 QP | 46.0 | -16.5 | 1.35 V | 307 | 45.6 | -16.1 |
| 4 | 398.64 | 29.7 QP | 46.0 | -16.3 | 2.17 V | 313 | 39.1 | -9.4 |
| 5 | 599.45 | 28.0 QP | 46.0 | -18.0 | 2.02 V | 201 | 31.6 | -3.6 |
| 6 | 928.31 | 35.8 QP | 46.0 | -10.2 | 2.67 V | 301 | 33.5 | 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. The other emission levels were very low against the limit of frequency range 30MHz ~ 1000MHz.
4. Margin value = Emission Level – Limit value.
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

| 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 |

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 |
|---|--------------------------|----------------|---------------|---------------|
| Test Receiver ROHDE & SCHWARZ | ESCI | 100613 | Dec. 03, 2021 | Dec. 02, 2022 |
| RF signal cable Woken | 5D-FB | Cable-cond1-01 | Jan. 15, 2022 | Jan. 14, 2023 |
| LISN/AMN ROHDE & SCHWARZ (EUT) | ENV216 | 101826 | Mar. 14, 2022 | Mar. 13, 2023 |
| LISN/AMN ROHDE & SCHWARZ (Peripheral) | ESH3-Z5 | 100311 | Sep. 07, 2021 | Sep. 06, 2022 |
| Software ADT | BV ADT_Cond_ V7.3.7.4 | NA | NA | NA |

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 HwaYa Shielded Room 1 (Conduction 1).

3. The VCCI Site Registration No. is C-12040.

4. Tested date: May 04, 2022

4.2.3 Test Procedures

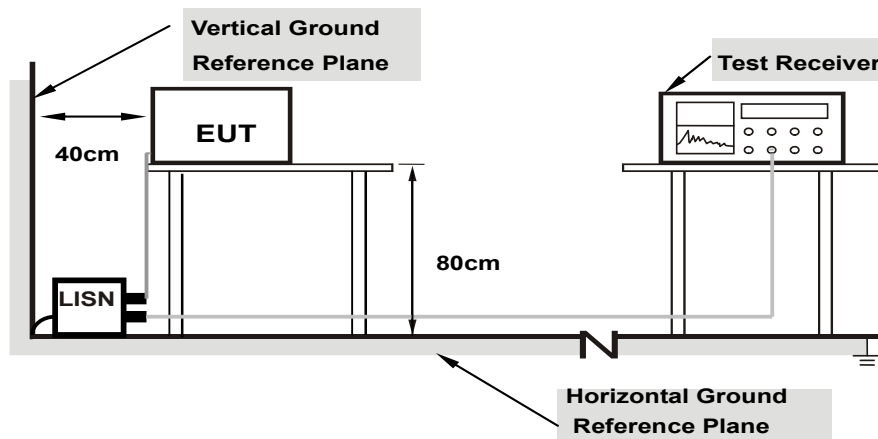
- The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/ 50uH of coupling impedance for the measuring instrument.
- 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 4.1.6.

4.2.7 Test Results

Worst-case data:

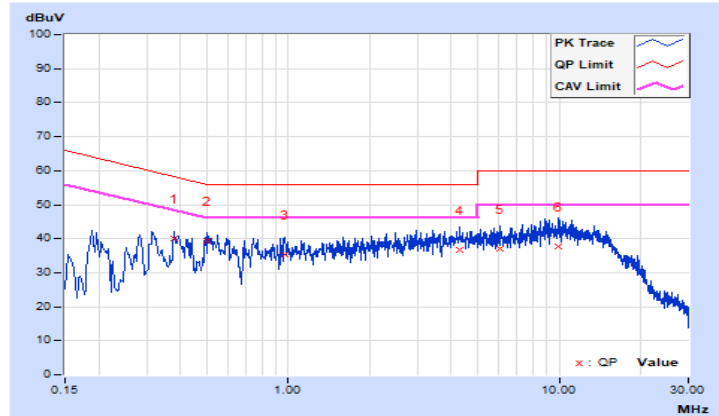
802.11ax (HE20)

| Phase | Line (L) | Detector Function | Quasi-Peak (QP) / Average (AV) |
|-------|----------|-------------------|--------------------------------|
|-------|----------|-------------------|--------------------------------|

| No | Freq. [MHz] | Corr. Factor (dB) | Reading Value [dB (uV)] | | Emission Level [dB (uV)] | | Limit [dB (uV)] | | Margin (dB) | |
|----------|----------------|-------------------------|----------------------------|--------------|-----------------------------|--------------|--------------------|--------------|----------------|---------------|
| | | | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. |
| | | | 1 | 0.38069 | 9.69 | 30.39 | 18.34 | 40.08 | 28.03 | 58.26 |
| 2 | 0.50190 | 9.69 | 29.81 | 17.50 | 39.50 | 27.19 | 56.00 | 46.00 | -16.50 | -18.81 |
| 3 | 0.97110 | 9.70 | 25.63 | 14.15 | 35.33 | 23.85 | 56.00 | 46.00 | -20.67 | -22.15 |
| 4 | 4.29460 | 9.75 | 26.79 | 17.27 | 36.54 | 27.02 | 56.00 | 46.00 | -19.46 | -18.98 |
| 5 | 6.01500 | 9.77 | 27.10 | 17.73 | 36.87 | 27.50 | 60.00 | 50.00 | -23.13 | -22.50 |
| 6 | 9.96410 | 9.81 | 27.88 | 18.42 | 37.69 | 28.23 | 60.00 | 50.00 | -22.31 | -21.77 |

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.

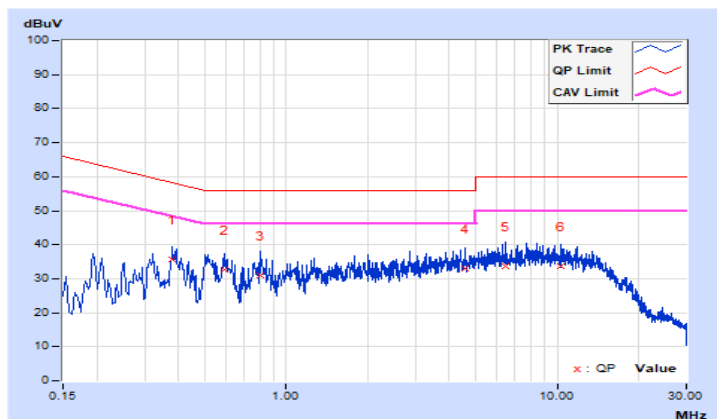


| | | | |
|-------|-------------|-------------------|--------------------------------|
| Phase | Neutral (N) | Detector Function | Quasi-Peak (QP) / Average (AV) |
|-------|-------------|-------------------|--------------------------------|

| No | Freq. [MHz] | Corr. Factor (dB) | Reading Value [dB (uV)] | | Emission Level [dB (uV)] | | Limit [dB (uV)] | | Margin (dB) | |
|----|----------------|-------------------------|----------------------------|---------|-----------------------------|-------|--------------------|-------|----------------|--------|
| | | | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. |
| | | | 1 | 0.38069 | 9.69 | 25.86 | 15.25 | 35.55 | 24.94 | 58.26 |
| 2 | 0.58792 | 9.69 | 22.88 | 12.63 | 32.57 | 22.32 | 56.00 | 46.00 | -23.43 | -23.68 |
| 3 | 0.79906 | 9.70 | 21.23 | 10.49 | 30.93 | 20.19 | 56.00 | 46.00 | -25.07 | -25.81 |
| 4 | 4.59958 | 9.76 | 23.26 | 13.97 | 33.02 | 23.73 | 56.00 | 46.00 | -22.98 | -22.27 |
| 5 | 6.47638 | 9.77 | 23.89 | 14.54 | 33.66 | 24.31 | 60.00 | 50.00 | -26.34 | -25.69 |
| 6 | 10.33555 | 9.81 | 23.95 | 14.86 | 33.76 | 24.67 | 60.00 | 50.00 | -26.24 | -25.33 |

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 Transmit Power Measurement

4.3.1 Limits of Transmit Power Measurement

| Operation Band | EUT Category | | Limit |
|----------------|--------------|-----------------------------------|---|
| U-NII-1 | | Outdoor Access Point | 1 Watt (30 dBm) (Max. e.i.r.p \leq 125mW(21 dBm) at any elevation angle above 30 degrees as measured from the horizon) |
| | | Fixed point-to-point Access Point | 1 Watt (30 dBm) |
| | | Indoor Access Point | 1 Watt (30 dBm) |
| | √ | Mobile and Portable client device | 250mW (24 dBm) |
| U-NII-2A | √ | | 250mW (24 dBm) or 11 dBm+10 log B* |
| U-NII-2C | √ | | 250mW (24 dBm) or 11 dBm+10 log B* |
| U-NII-3 | √ | | 1 Watt (30 dBm) |

*B is the 26 dB emission bandwidth in megahertz

Per KDB 662911 Method of conducted output power measurement on IEEE 802.11 devices,

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

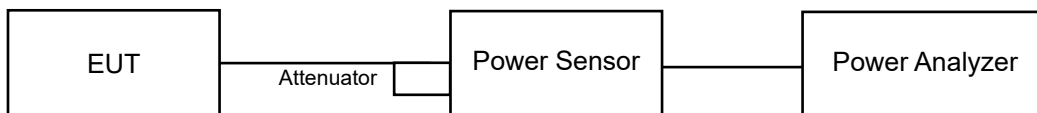
Array Gain = 0 dB (i.e., no array gain) for channel widths ≥ 40 MHz for any N_{ANT} ;

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

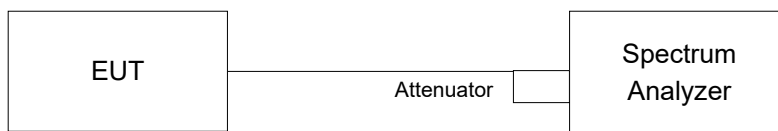
For power measurements on all other devices: Array Gain = $10 \log(N_{ANT}/N_{SS})$ dB.

4.3.2 Test Setup

For Power Output



For 26dB Bandwidth and power output of transmission above 5.725 GHz where the EBW crosses 5.725 GHz



4.3.3 Test Instruments

Refer to section 4.1.2 to get information of above instrument.

4.3.4 Test Procedure

For Average Power Measurement

Method PM is 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 and set the detector to average. Duty factor is not added to measured value.

For transmission above 5.725 GHz where the EBW crosses 5.725 GHz

For channel aggregation (channel 138, 142, 144) measurement refer to KDB 789033 D02 General UNII Test Procedures New Rules v02r01 Section III Channel Aggregation subpart C. measurement procedures 2 and section II E 2 d) method SA-2.

For 26dB Bandwidth

- a. Set RBW = approximately 1% of the emission bandwidth.
- b. Set the VBW > RBW.
- c. Detector = Peak.
- d. Trace mode = max hold.
- e. Measure the maximum width of the emission that is 26 dB down from the peak of the emission. Compare this with the RBW setting of the analyzer. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is approximately 1%.

4.3.5 Deviation from Test 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

For straddle channels, measured in accordance with FCC KDB 789033 UNII Test Procedure Method SA-2 and tested with a spectrum analyzer, if the duty cycle is less than 98%, the duty cycle factor is included in the total power. The duty cycle factor can be found in chapter 3.3 of the report.

Power Output:

802.11a

| Chan. | Freq. (MHz) | Average Power (dBm) | | Total Power (mW) | Total Power (dBm) | Power Limit (dBm) | Pass / Fail |
|-------|------------------------|---------------------|---------|------------------|-------------------|-------------------|-------------|
| | | Chain 0 | Chain 1 | | | | |
| 36 | 5180 | 11.64 | 11.74 | 29.516 | 14.70 | 24.00 | Pass |
| 40 | 5200 | 11.76 | 11.78 | 30.063 | 14.78 | 24.00 | Pass |
| 48 | 5240 | 11.74 | 11.81 | 30.098 | 14.79 | 24.00 | Pass |
| 52 | 5260 | 11.75 | 11.72 | 29.822 | 14.75 | 23.88 | Pass |
| 60 | 5300 | 11.72 | 11.80 | 29.995 | 14.77 | 23.86 | Pass |
| 64 | 5320 | 11.55 | 11.84 | 29.565 | 14.71 | 23.90 | Pass |
| 100 | 5500 | 11.77 | 11.81 | 30.202 | 14.80 | 23.93 | Pass |
| 116 | 5580 | 11.63 | 11.73 | 29.448 | 14.69 | 23.87 | Pass |
| 140 | 5700 | 11.55 | 11.95 | 29.956 | 14.76 | 23.88 | Pass |
| 144 | 5720 (For U-NII-2C) | 10.51 | 10.60 | 22.728 | 13.57 | 22.71 | Pass |
| 144 | 5720 (For U-NII-3) | 4.15 | 4.06 | 5.147 | 7.12 | 30.00 | Pass |
| 149 | 5745 | 11.68 | 11.51 | 28.881 | 14.61 | 30.00 | Pass |
| 157 | 5785 | 11.86 | 11.71 | 30.171 | 14.80 | 30.00 | Pass |
| 165 | 5825 | 11.87 | 11.71 | 30.207 | 14.80 | 30.00 | Pass |

Note:

For U-NII-2A, U-NII-2C Band:

Chain 0

- $11\text{dBm} + 10\log(19.56) = 23.91 < 24\text{dBm}$
- $11\text{dBm} + 10\log(19.55) = 23.91 < 24\text{dBm}$
- $11\text{dBm} + 10\log(19.65) = 23.93 < 24\text{dBm}$
- $11\text{dBm} + 10\log(19.73) = 23.95 < 24\text{dBm}$
- $11\text{dBm} + 10\log(19.57) = 23.91 < 24\text{dBm}$
- $11\text{dBm} + 10\log(19.53) = 23.90 < 24\text{dBm}$
- $11\text{dBm} + 10\log(5725.00 - 5709.95) = 22.77 < 24\text{dBm}$

Chain 1

- $11\text{dBm} + 10\log(19.41) = 23.88 < 24\text{dBm}$
- $11\text{dBm} + 10\log(19.35) = 23.86 < 24\text{dBm}$
- $11\text{dBm} + 10\log(19.51) = 23.90 < 24\text{dBm}$
- $11\text{dBm} + 10\log(19.65) = 23.93 < 24\text{dBm}$
- $11\text{dBm} + 10\log(19.40) = 23.87 < 24\text{dBm}$
- $11\text{dBm} + 10\log(19.42) = 23.88 < 24\text{dBm}$
- $11\text{dBm} + 10\log(5725.00 - 5710.15) = 22.71 < 24\text{dBm}$

802.11n (HT20)

| Chan. | Freq. (MHz) | Average Power (dBm) | | Total Power (mW) | Total Power (dBm) | Power Limit (dBm) | Pass / Fail |
|-------|------------------------|---------------------|---------|------------------|-------------------|-------------------|-------------|
| | | Chain 0 | Chain 1 | | | | |
| 36 | 5180 | 11.70 | 11.73 | 29.685 | 14.73 | 24.00 | Pass |
| 40 | 5200 | 11.61 | 11.71 | 29.313 | 14.67 | 24.00 | Pass |
| 48 | 5240 | 11.70 | 11.75 | 29.753 | 14.74 | 24.00 | Pass |
| 52 | 5260 | 11.66 | 11.79 | 29.756 | 14.74 | 24.00 | Pass |
| 60 | 5300 | 11.62 | 11.71 | 29.346 | 14.68 | 24.00 | Pass |
| 64 | 5320 | 11.68 | 11.81 | 29.894 | 14.76 | 24.00 | Pass |
| 100 | 5500 | 11.82 | 11.74 | 30.133 | 14.79 | 24.00 | Pass |
| 116 | 5580 | 11.72 | 11.78 | 29.925 | 14.76 | 24.00 | Pass |
| 140 | 5700 | 11.51 | 11.80 | 29.294 | 14.67 | 24.00 | Pass |
| 144 | 5720 (For U-NII-2C) | 10.41 | 10.21 | 21.485 | 13.32 | 22.98 | Pass |
| 144 | 5720 (For U-NII-3) | 4.50 | 4.32 | 5.522 | 7.42 | 30.00 | Pass |
| 149 | 5745 | 11.63 | 11.56 | 28.876 | 14.61 | 30.00 | Pass |
| 157 | 5785 | 11.81 | 11.61 | 29.658 | 14.72 | 30.00 | Pass |
| 165 | 5825 | 11.83 | 11.60 | 29.695 | 14.73 | 30.00 | Pass |

Note:

For U-NII-2A, U-NII-2C Band:

Chain 0

1. $11\text{dBm} + 10\log(21.41) = 24.30 > 24\text{dBm}$
2. $11\text{dBm} + 10\log(21.52) = 24.32 > 24\text{dBm}$
3. $11\text{dBm} + 10\log(21.22) = 24.26 > 24\text{dBm}$
4. $11\text{dBm} + 10\log(21.49) = 24.32 > 24\text{dBm}$
5. $11\text{dBm} + 10\log(21.49) = 24.32 > 24\text{dBm}$
6. $11\text{dBm} + 10\log(21.39) = 24.30 > 24\text{dBm}$
7. $11\text{dBm} + 10\log(5725.00 - 5709.20) = 22.98 < 24\text{dBm}$

Chain 1

1. $11\text{dBm} + 10\log(21.52) = 24.32 > 24\text{dBm}$
2. $11\text{dBm} + 10\log(21.62) = 24.34 > 24\text{dBm}$
3. $11\text{dBm} + 10\log(21.33) = 24.28 > 24\text{dBm}$
4. $11\text{dBm} + 10\log(21.26) = 24.27 > 24\text{dBm}$
5. $11\text{dBm} + 10\log(21.68) = 24.36 > 24\text{dBm}$
6. $11\text{dBm} + 10\log(21.27) = 24.27 > 24\text{dBm}$
7. $11\text{dBm} + 10\log(5725.00 - 5709.11) = 23.01 < 24\text{dBm}$

802.11n (HT40)

| Chan. | Freq. (MHz) | Average Power (dBm) | | Total Power (mW) | Total Power (dBm) | Power Limit (dBm) | Pass / Fail |
|-------|------------------------|---------------------|---------|------------------|-------------------|-------------------|-------------|
| | | Chain 0 | Chain 1 | | | | |
| 38 | 5190 | 11.67 | 11.74 | 29.617 | 14.72 | 24.00 | Pass |
| 46 | 5230 | 11.75 | 11.73 | 29.856 | 14.75 | 24.00 | Pass |
| 54 | 5270 | 11.75 | 11.70 | 29.753 | 14.74 | 24.00 | Pass |
| 62 | 5310 | 11.71 | 11.68 | 29.548 | 14.71 | 24.00 | Pass |
| 102 | 5510 | 11.80 | 11.73 | 30.029 | 14.78 | 24.00 | Pass |
| 110 | 5550 | 11.75 | 11.67 | 29.652 | 14.72 | 24.00 | Pass |
| 134 | 5670 | 11.51 | 11.72 | 29.017 | 14.63 | 24.00 | Pass |
| 142 | 5710 (For U-NII-2C) | 11.05 | 10.85 | 24.897 | 13.96 | 24.00 | Pass |
| 142 | 5710 (For U-NII-3) | 0.90 | 0.65 | 2.392 | 3.79 | 30.00 | Pass |
| 151 | 5755 | 11.78 | 11.69 | 29.823 | 14.75 | 30.00 | Pass |
| 159 | 5795 | 11.81 | 11.73 | 30.064 | 14.78 | 30.00 | Pass |

Note:

For U-NII-2A, U-NII-2C Band:

Chain 0

1. $11\text{dBm} + 10\log(42.37) = 27.27 > 24\text{dBm}$
2. $11\text{dBm} + 10\log(42.28) = 27.26 > 24\text{dBm}$
3. $11\text{dBm} + 10\log(42.34) = 27.26 > 24\text{dBm}$
4. $11\text{dBm} + 10\log(41.53) = 27.18 > 24\text{dBm}$
5. $11\text{dBm} + 10\log(41.97) = 27.22 > 24\text{dBm}$
6. $11\text{dBm} + 10\log(5725.00 - 5689.19) = 26.54 > 24\text{dBm}$

Chain 1

1. $11\text{dBm} + 10\log(41.69) = 27.20 > 24\text{dBm}$
2. $11\text{dBm} + 10\log(42.09) = 27.24 > 24\text{dBm}$
3. $11\text{dBm} + 10\log(42.17) = 27.25 > 24\text{dBm}$
4. $11\text{dBm} + 10\log(42.47) = 27.28 > 24\text{dBm}$
5. $11\text{dBm} + 10\log(41.89) = 27.22 > 24\text{dBm}$
6. $11\text{dBm} + 10\log(5725.00 - 5689.19) = 26.54 > 24\text{dBm}$

802.11ac (VHT20)

| Chan. | Freq. (MHz) | Average Power (dBm) | | Total Power (mW) | Total Power (dBm) | Power Limit (dBm) | Pass / Fail |
|-------|------------------------|---------------------|---------|------------------|-------------------|-------------------|-------------|
| | | Chain 0 | Chain 1 | | | | |
| 36 | 5180 | 11.72 | 11.86 | 30.206 | 14.80 | 24.00 | Pass |
| 40 | 5200 | 11.63 | 11.73 | 29.448 | 14.69 | 24.00 | Pass |
| 48 | 5240 | 11.72 | 11.77 | 29.891 | 14.76 | 24.00 | Pass |
| 52 | 5260 | 11.68 | 11.83 | 29.964 | 14.77 | 24.00 | Pass |
| 60 | 5300 | 11.65 | 11.72 | 29.481 | 14.70 | 24.00 | Pass |
| 64 | 5320 | 11.69 | 11.85 | 30.068 | 14.78 | 24.00 | Pass |
| 100 | 5500 | 11.84 | 11.79 | 30.376 | 14.83 | 24.00 | Pass |
| 116 | 5580 | 11.76 | 11.81 | 30.167 | 14.80 | 24.00 | Pass |
| 140 | 5700 | 11.52 | 11.83 | 29.431 | 14.69 | 24.00 | Pass |
| 144 | 5720 (For U-NII-2C) | 10.51 | 10.23 | 21.790 | 13.38 | 22.98 | Pass |
| 144 | 5720 (For U-NII-3) | 4.52 | 4.33 | 5.542 | 7.44 | 30.00 | Pass |
| 149 | 5745 | 11.65 | 11.58 | 29.010 | 14.63 | 30.00 | Pass |
| 157 | 5785 | 11.84 | 11.79 | 30.376 | 14.83 | 30.00 | Pass |
| 165 | 5825 | 11.86 | 11.80 | 30.482 | 14.84 | 30.00 | Pass |

Note:

For U-NII-2A, U-NII-2C Band:

Chain 0

1. $11\text{dBm} + 10\log(21.41) = 24.30 > 24\text{dBm}$
2. $11\text{dBm} + 10\log(21.52) = 24.32 > 24\text{dBm}$
3. $11\text{dBm} + 10\log(21.22) = 24.26 > 24\text{dBm}$
4. $11\text{dBm} + 10\log(21.49) = 24.32 > 24\text{dBm}$
5. $11\text{dBm} + 10\log(21.49) = 24.32 > 24\text{dBm}$
6. $11\text{dBm} + 10\log(21.39) = 24.30 > 24\text{dBm}$
7. $11\text{dBm} + 10\log(5725.00 - 5709.20) = 22.98 < 24\text{dBm}$

Chain 1

1. $11\text{dBm} + 10\log(21.52) = 24.32 > 24\text{dBm}$
2. $11\text{dBm} + 10\log(21.62) = 24.34 > 24\text{dBm}$
3. $11\text{dBm} + 10\log(21.33) = 24.28 > 24\text{dBm}$
4. $11\text{dBm} + 10\log(21.26) = 24.27 > 24\text{dBm}$
5. $11\text{dBm} + 10\log(21.68) = 24.36 > 24\text{dBm}$
6. $11\text{dBm} + 10\log(21.27) = 24.27 > 24\text{dBm}$
7. $11\text{dBm} + 10\log(5725.00 - 5709.11) = 23.01 < 24\text{dBm}$

802.11ac (VHT40)

| Chan. | Freq. (MHz) | Average Power (dBm) | | Total Power (mW) | Total Power (dBm) | Power Limit (dBm) | Pass / Fail |
|-------|------------------------|---------------------|---------|------------------|-------------------|-------------------|-------------|
| | | Chain 0 | Chain 1 | | | | |
| 38 | 5190 | 11.70 | 11.76 | 29.788 | 14.74 | 24.00 | Pass |
| 46 | 5230 | 11.78 | 11.75 | 30.028 | 14.78 | 24.00 | Pass |
| 54 | 5270 | 11.77 | 11.73 | 29.925 | 14.76 | 24.00 | Pass |
| 62 | 5310 | 11.74 | 11.70 | 29.719 | 14.73 | 24.00 | Pass |
| 102 | 5510 | 11.81 | 11.74 | 30.098 | 14.79 | 24.00 | Pass |
| 110 | 5550 | 11.76 | 11.68 | 29.720 | 14.73 | 24.00 | Pass |
| 134 | 5670 | 11.53 | 11.73 | 29.117 | 14.64 | 24.00 | Pass |
| 142 | 5710 (For U-NII-2C) | 11.11 | 10.91 | 25.243 | 14.02 | 24.00 | Pass |
| 142 | 5710 (For U-NII-3) | 0.93 | 0.67 | 2.406 | 3.81 | 30.00 | Pass |
| 151 | 5755 | 11.80 | 11.72 | 29.995 | 14.77 | 30.00 | Pass |
| 159 | 5795 | 11.84 | 11.74 | 30.204 | 14.80 | 30.00 | Pass |

Note:

For U-NII-2A, U-NII-2C Band:

Chain 0

1. $11\text{dBm} + 10\log(42.37) = 27.27 > 24\text{dBm}$
2. $11\text{dBm} + 10\log(42.28) = 27.26 > 24\text{dBm}$
3. $11\text{dBm} + 10\log(42.34) = 27.26 > 24\text{dBm}$
4. $11\text{dBm} + 10\log(41.53) = 27.18 > 24\text{dBm}$
5. $11\text{dBm} + 10\log(41.97) = 27.22 > 24\text{dBm}$
6. $11\text{dBm} + 10\log(5725.00 - 5689.19) = 26.54 > 24\text{dBm}$

Chain 1

1. $11\text{dBm} + 10\log(41.69) = 27.20 > 24\text{dBm}$
2. $11\text{dBm} + 10\log(42.09) = 27.24 > 24\text{dBm}$
3. $11\text{dBm} + 10\log(42.17) = 27.25 > 24\text{dBm}$
4. $11\text{dBm} + 10\log(42.47) = 27.28 > 24\text{dBm}$
5. $11\text{dBm} + 10\log(41.89) = 27.22 > 24\text{dBm}$
6. $11\text{dBm} + 10\log(5725.00 - 5689.19) = 26.54 > 24\text{dBm}$

802.11ac (VHT80)

| Chan. | Freq. (MHz) | Average Power (dBm) | | Total Power (mW) | Total Power (dBm) | Power Limit (dBm) | Pass / Fail |
|-------|------------------------|---------------------|---------|------------------|-------------------|-------------------|-------------|
| | | Chain 0 | Chain 1 | | | | |
| 42 | 5210 | 11.74 | 11.63 | 29.483 | 14.70 | 24.00 | Pass |
| 58 | 5290 | 11.67 | 11.83 | 29.930 | 14.76 | 24.00 | Pass |
| 106 | 5530 | 11.64 | 11.78 | 29.654 | 14.72 | 24.00 | Pass |
| 122 | 5610 | 11.50 | 11.79 | 29.226 | 14.66 | 24.00 | Pass |
| 138 | 5690 (For U-NII-2C) | 11.11 | 11.05 | 25.647 | 14.09 | 24.00 | Pass |
| 138 | 5690 (For U-NII-3) | -2.83 | -3.20 | 1.000 | 0.00 | 30.00 | Pass |
| 155 | 5775 | 11.77 | 11.66 | 29.687 | 14.73 | 30.00 | Pass |

Note:

For U-NII-2A, U-NII-2C Band:

Chain 0

1. $11\text{dBm} + 10\log(83.24) = 30.20 > 24\text{dBm}$
2. $11\text{dBm} + 10\log(83.27) = 30.20 > 24\text{dBm}$
3. $11\text{dBm} + 10\log(83.84) = 30.23 > 24\text{dBm}$
4. $11\text{dBm} + 10\log(5725.00 - 5649.07) = 29.80 > 24\text{dBm}$

Chain 1

1. $11\text{dBm} + 10\log(83.37) = 30.21 > 24\text{dBm}$
2. $11\text{dBm} + 10\log(82.97) = 30.18 > 24\text{dBm}$
3. $11\text{dBm} + 10\log(83.44) = 30.21 > 24\text{dBm}$
4. $11\text{dBm} + 10\log(5725.00 - 5648.59) = 29.83 > 24\text{dBm}$

802.11ac (VHT160)

| Chan. | Freq. (MHz) | Average Power (dBm) | | Total Power (mW) | Total Power (dBm) | Power Limit (dBm) | Pass / Fail |
|-------|-------------------------|---------------------|---------|------------------|-------------------|-------------------|-------------|
| | | Chain 0 | Chain 1 | | | | |
| *50 | 5250 (U-NII-1 Band) | 8.73 | 8.74 | 14.946 | 11.75 | 24.00 | Pass |
| *50 | 5250 (U-NII-2A Band) | 8.70 | 8.67 | 14.775 | 11.70 | 24.00 | Pass |
| 114 | 5570 | 11.89 | 11.80 | 30.588 | 14.86 | 24.00 | Pass |

Note:

For U-NII-2A Band:

Chain 0

1. $11\text{dBm} + 10\log(84.67) = 30.27 > 24\text{dBm}$
2. $11\text{dBm} + 10\log(169.33) = 33.28 > 24\text{dBm}$

Chain 1

1. $11\text{dBm} + 10\log(84.30) = 30.25 > 24\text{dBm}$
2. $11\text{dBm} + 10\log(169.69) = 33.29 > 24\text{dBm}$

Full RU

802.11ax (HE20)

| Chan. | Freq. (MHz) | Average Power (dBm) | | Total Power (mW) | Total Power (dBm) | Power Limit (dBm) | Pass / Fail |
|-------|------------------------|---------------------|---------|------------------|-------------------|-------------------|-------------|
| | | Chain 0 | Chain 1 | | | | |
| 36 | 5180 | 11.75 | 11.93 | 30.558 | 14.85 | 24.00 | Pass |
| 40 | 5200 | 11.66 | 11.75 | 29.618 | 14.72 | 24.00 | Pass |
| 48 | 5240 | 11.73 | 11.79 | 29.994 | 14.77 | 24.00 | Pass |
| 52 | 5260 | 11.70 | 11.85 | 30.102 | 14.79 | 24.00 | Pass |
| 60 | 5300 | 11.67 | 11.74 | 29.617 | 14.72 | 24.00 | Pass |
| 64 | 5320 | 11.71 | 11.88 | 30.242 | 14.81 | 24.00 | Pass |
| 100 | 5500 | 11.86 | 11.81 | 30.517 | 14.85 | 24.00 | Pass |
| 116 | 5580 | 11.78 | 11.83 | 30.307 | 14.82 | 24.00 | Pass |
| 140 | 5700 | 11.53 | 11.85 | 29.534 | 14.70 | 24.00 | Pass |
| 144 | 5720 (For U-NII-2C) | 10.58 | 10.25 | 22.021 | 13.43 | 22.98 | Pass |
| 144 | 5720 (For U-NII-3) | 4.84 | 4.57 | 5.912 | 7.72 | 30.00 | Pass |
| 149 | 5745 | 11.74 | 11.60 | 29.382 | 14.68 | 30.00 | Pass |
| 157 | 5785 | 11.86 | 11.81 | 30.517 | 14.85 | 30.00 | Pass |
| 165 | 5825 | 11.88 | 11.82 | 30.622 | 14.86 | 30.00 | Pass |

Note:

For U-NII-2A, U-NII-2C Band:

Chain 0

- $11\text{dBm} + 10\log(21.41) = 24.30 > 24\text{dBm}$
- $11\text{dBm} + 10\log(21.52) = 24.32 > 24\text{dBm}$
- $11\text{dBm} + 10\log(21.22) = 24.26 > 24\text{dBm}$
- $11\text{dBm} + 10\log(21.49) = 24.32 > 24\text{dBm}$
- $11\text{dBm} + 10\log(21.49) = 24.32 > 24\text{dBm}$
- $11\text{dBm} + 10\log(21.39) = 24.30 > 24\text{dBm}$
- $11\text{dBm} + 10\log(5725.00 - 5709.20) = 22.98 < 24\text{dBm}$

Chain 1

- $11\text{dBm} + 10\log(21.52) = 24.32 > 24\text{dBm}$
- $11\text{dBm} + 10\log(21.62) = 24.34 > 24\text{dBm}$
- $11\text{dBm} + 10\log(21.33) = 24.28 > 24\text{dBm}$
- $11\text{dBm} + 10\log(21.26) = 24.27 > 24\text{dBm}$
- $11\text{dBm} + 10\log(21.68) = 24.36 > 24\text{dBm}$
- $11\text{dBm} + 10\log(21.27) = 24.27 > 24\text{dBm}$
- $11\text{dBm} + 10\log(5725.00 - 5709.11) = 23.01 < 24\text{dBm}$

802.11ax (HE40)

| Chan. | Freq. (MHz) | Average Power (dBm) | | Total Power (mW) | Total Power (dBm) | Power Limit (dBm) | Pass / Fail |
|-------|------------------------|---------------------|---------|------------------------|-------------------------|-------------------------|----------------|
| | | Chain 0 | Chain 1 | | | | |
| 38 | 5190 | 11.73 | 11.79 | 29.994 | 14.77 | 24.00 | Pass |
| 46 | 5230 | 11.80 | 11.81 | 30.306 | 14.82 | 24.00 | Pass |
| 54 | 5270 | 11.81 | 11.76 | 30.167 | 14.80 | 24.00 | Pass |
| 62 | 5310 | 11.80 | 11.73 | 30.029 | 14.78 | 24.00 | Pass |
| 102 | 5510 | 11.84 | 11.77 | 30.307 | 14.82 | 24.00 | Pass |
| 110 | 5550 | 11.78 | 11.71 | 29.891 | 14.76 | 24.00 | Pass |
| 134 | 5670 | 11.55 | 11.79 | 29.390 | 14.68 | 24.00 | Pass |
| 142 | 5710 (For U-NII-2C) | 11.18 | 10.94 | 25.539 | 14.07 | 24.00 | Pass |
| 142 | 5710 (For U-NII-3) | 0.98 | 0.71 | 2.431 | 3.86 | 30.00 | Pass |
| 151 | 5755 | 11.81 | 11.73 | 30.064 | 14.78 | 30.00 | Pass |
| 159 | 5795 | 11.86 | 11.78 | 30.412 | 14.83 | 30.00 | Pass |

Note:

For U-NII-2A, U-NII-2C Band:

Chain 0

1. $11\text{dBm} + 10\log(42.37) = 27.27 > 24\text{dBm}$
2. $11\text{dBm} + 10\log(42.28) = 27.26 > 24\text{dBm}$
3. $11\text{dBm} + 10\log(42.34) = 27.26 > 24\text{dBm}$
4. $11\text{dBm} + 10\log(41.53) = 27.18 > 24\text{dBm}$
5. $11\text{dBm} + 10\log(41.97) = 27.22 > 24\text{dBm}$
6. $11\text{dBm} + 10\log(5725.00 - 5689.19) = 26.54 > 24\text{dBm}$

Chain 1

1. $11\text{dBm} + 10\log(41.69) = 27.20 > 24\text{dBm}$
2. $11\text{dBm} + 10\log(42.09) = 27.24 > 24\text{dBm}$
3. $11\text{dBm} + 10\log(42.17) = 27.25 > 24\text{dBm}$
4. $11\text{dBm} + 10\log(42.47) = 27.28 > 24\text{dBm}$
5. $11\text{dBm} + 10\log(41.89) = 27.22 > 24\text{dBm}$
6. $11\text{dBm} + 10\log(5725.00 - 5689.19) = 26.54 > 24\text{dBm}$

802.11ax (HE80)

| Chan. | Freq. (MHz) | Average Power (dBm) | | Total Power (mW) | Total Power (dBm) | Power Limit (dBm) | Pass / Fail |
|-------|------------------------|---------------------|---------|------------------|-------------------|-------------------|-------------|
| | | Chain 0 | Chain 1 | | | | |
| 42 | 5210 | 11.77 | 11.65 | 29.653 | 14.72 | 24.00 | Pass |
| 58 | 5290 | 11.90 | 11.86 | 30.834 | 14.89 | 24.00 | Pass |
| 106 | 5530 | 11.83 | 11.87 | 30.622 | 14.86 | 24.00 | Pass |
| 122 | 5610 | 11.52 | 11.81 | 29.361 | 14.68 | 24.00 | Pass |
| 138 | 5690 (For U-NII-2C) | 11.16 | 11.09 | 25.915 | 14.14 | 24.00 | Pass |
| 138 | 5690 (For U-NII-3) | -2.78 | -3.15 | 1.0114 | 0.05 | 30.00 | Pass |
| 155 | 5775 | 11.81 | 11.68 | 29.894 | 14.76 | 30.00 | Pass |

Note:

For U-NII-2A, U-NII-2C Band:

Chain 0

1. $11\text{dBm} + 10\log(83.24) = 30.20 > 24\text{dBm}$
2. $11\text{dBm} + 10\log(83.27) = 30.20 > 24\text{dBm}$
3. $11\text{dBm} + 10\log(83.84) = 30.23 > 24\text{dBm}$
4. $11\text{dBm} + 10\log(5725.00 - 5649.07) = 29.80 > 24\text{dBm}$

Chain 1

1. $11\text{dBm} + 10\log(83.37) = 30.21 > 24\text{dBm}$
2. $11\text{dBm} + 10\log(82.97) = 30.18 > 24\text{dBm}$
3. $11\text{dBm} + 10\log(83.44) = 30.21 > 24\text{dBm}$
4. $11\text{dBm} + 10\log(5725.00 - 5648.59) = 29.83 > 24\text{dBm}$

802.11ax (HE160)

| Chan. | Freq. (MHz) | Average Power (dBm) | | Total Power (mW) | Total Power (dBm) | Power Limit (dBm) | Pass / Fail |
|-------|-------------------------|---------------------|---------|------------------|-------------------|-------------------|-------------|
| | | Chain 0 | Chain 1 | | | | |
| *50 | 5250 (U-NII-1 Band) | 8.80 | 8.78 | 15.137 | 11.80 | 24.00 | Pass |
| *50 | 5250 (U-NII-2A Band) | 8.76 | 8.71 | 14.946 | 11.75 | 24.00 | Pass |
| 114 | 5570 | 11.91 | 11.82 | 30.729 | 14.88 | 24.00 | Pass |

Note:

For U-NII-2A Band:

Chain 0

1. $11\text{dBm} + 10\log(84.67) = 30.27 > 24\text{dBm}$
2. $11\text{dBm} + 10\log(169.33) = 33.28 > 24\text{dBm}$

Chain 1

1. $11\text{dBm} + 10\log(84.30) = 30.25 > 24\text{dBm}$
2. $11\text{dBm} + 10\log(169.69) = 33.29 > 24\text{dBm}$

Partial RU
RU26
802.11ax (HE20)

| Chan. | Freq. (MHz) | Average Power (dBm) | | Total Power (mW) | Total Power (dBm) | Power Limit (dBm) | Pass / Fail |
|-------|------------------------|---------------------|---------|------------------|-------------------|-------------------|-------------|
| | | Chain 0 | Chain 1 | | | | |
| 36 | 5180 | 7.54 | 7.87 | 11.799 | 10.72 | 24.00 | Pass |
| 40 | 5200 | 7.56 | 7.77 | 11.686 | 10.68 | 24.00 | Pass |
| 48 | 5240 | 7.74 | 7.83 | 12.010 | 10.80 | 24.00 | Pass |
| 52 | 5260 | 7.56 | 7.85 | 11.797 | 10.72 | 24.00 | Pass |
| 60 | 5300 | 7.75 | 7.84 | 12.038 | 10.81 | 24.00 | Pass |
| 64 | 5320 | 7.73 | 7.91 | 12.109 | 10.83 | 24.00 | Pass |
| 100 | 5500 | 7.65 | 7.80 | 11.847 | 10.74 | 24.00 | Pass |
| 116 | 5580 | 7.67 | 7.88 | 11.986 | 10.79 | 24.00 | Pass |
| 140 | 5700 | 7.81 | 7.94 | 12.262 | 10.89 | 24.00 | Pass |
| 144 | 5720 (For U-NII-2C) | -20.04 | -19.78 | 0.020 | -16.90 | 22.60 | Pass |
| 144 | 5720 (For U-NII-3) | 7.48 | 7.55 | 11.286 | 10.53 | 30.00 | Pass |
| 149 | 5745 | 7.66 | 7.85 | 11.930 | 10.77 | 30.00 | Pass |
| 157 | 5785 | 7.57 | 7.91 | 11.895 | 10.75 | 30.00 | Pass |
| 165 | 5825 | 7.73 | 7.95 | 12.167 | 10.85 | 30.00 | Pass |

Note:

For U-NII-2A, U-NII-2C Band:

Chain 0

1. $11\text{dBm} + 10\log(21.11) = 24.24 > 24\text{dBm}$
2. $11\text{dBm} + 10\log(21.06) = 24.23 > 24\text{dBm}$
3. $11\text{dBm} + 10\log(20.74) = 24.16 > 24\text{dBm}$
4. $11\text{dBm} + 10\log(21.04) = 24.23 > 24\text{dBm}$
5. $11\text{dBm} + 10\log(21.19) = 24.26 > 24\text{dBm}$
6. $11\text{dBm} + 10\log(21.31) = 24.28 > 24\text{dBm}$
7. $11\text{dBm} + 10\log(5725.00 - 5710.36) = 22.65 < 24\text{dBm}$

Chain 1

1. $11\text{dBm} + 10\log(20.82) = 24.18 > 24\text{dBm}$
2. $11\text{dBm} + 10\log(21.23) = 24.26 > 24\text{dBm}$
3. $11\text{dBm} + 10\log(20.88) = 24.19 > 24\text{dBm}$
4. $11\text{dBm} + 10\log(21.00) = 24.22 > 24\text{dBm}$
5. $11\text{dBm} + 10\log(20.87) = 24.19 > 24\text{dBm}$
6. $11\text{dBm} + 10\log(20.97) = 24.21 > 24\text{dBm}$
7. $11\text{dBm} + 10\log(5725.00 - 5710.53) = 22.60 < 24\text{dBm}$

802.11ax (HE40)

| Chan. | Freq. (MHz) | Average Power (dBm) | | Total Power (mW) | Total Power (dBm) | Power Limit (dBm) | Pass / Fail |
|-------|------------------------|---------------------|---------|------------------|-------------------|-------------------|-------------|
| | | Chain 0 | Chain 1 | | | | |
| 38 | 5190 | 7.56 | 7.88 | 11.839 | 10.73 | 24.00 | Pass |
| 46 | 5230 | 7.67 | 7.72 | 11.764 | 10.71 | 24.00 | Pass |
| 54 | 5270 | 7.65 | 7.89 | 11.973 | 10.78 | 24.00 | Pass |
| 62 | 5310 | 7.71 | 7.78 | 11.900 | 10.76 | 24.00 | Pass |
| 102 | 5510 | 7.69 | 7.79 | 11.887 | 10.75 | 24.00 | Pass |
| 110 | 5550 | 7.63 | 7.83 | 11.862 | 10.74 | 24.00 | Pass |
| 134 | 5670 | 7.71 | 7.93 | 12.111 | 10.83 | 24.00 | Pass |
| 142 | 5710 (For U-NII-2C) | -25.74 | -26.17 | 0.005 | -22.94 | 24.00 | Pass |
| 142 | 5710 (For U-NII-3) | 7.27 | 7.55 | 11.022 | 10.42 | 30.00 | Pass |
| 151 | 5755 | 7.63 | 7.79 | 11.806 | 10.72 | 30.00 | Pass |
| 159 | 5795 | 7.73 | 7.88 | 12.067 | 10.82 | 30.00 | Pass |

Note:

For U-NII-2A, U-NII-2C Band:

Chain 0

1. $11\text{dBm} + 10\log(42.37) = 27.27 > 24\text{dBm}$
2. $11\text{dBm} + 10\log(42.28) = 27.26 > 24\text{dBm}$
3. $11\text{dBm} + 10\log(42.34) = 27.26 > 24\text{dBm}$
4. $11\text{dBm} + 10\log(41.53) = 27.18 > 24\text{dBm}$
5. $11\text{dBm} + 10\log(41.97) = 27.22 > 24\text{dBm}$
6. $11\text{dBm} + 10\log(5725.00 - 5690.12) = 26.42 > 24\text{dBm}$

Chain 1

1. $11\text{dBm} + 10\log(41.69) = 27.20 > 24\text{dBm}$
2. $11\text{dBm} + 10\log(42.09) = 27.24 > 24\text{dBm}$
3. $11\text{dBm} + 10\log(42.17) = 27.25 > 24\text{dBm}$
4. $11\text{dBm} + 10\log(42.47) = 27.28 > 24\text{dBm}$
5. $11\text{dBm} + 10\log(41.89) = 27.22 > 24\text{dBm}$
6. $11\text{dBm} + 10\log(5725.00 - 5690.20) = 26.41 > 24\text{dBm}$

802.11ax (HE80)

| Chan. | Freq. (MHz) | Average Power (dBm) | | Total Power (mW) | Total Power (dBm) | Power Limit (dBm) | Pass / Fail |
|-------|------------------------|---------------------|---------|------------------|-------------------|-------------------|-------------|
| | | Chain 0 | Chain 1 | | | | |
| 42 | 5210 | 7.65 | 7.72 | 11.737 | 10.70 | 24.00 | Pass |
| 58 | 5290 | 7.66 | 7.78 | 11.832 | 10.73 | 24.00 | Pass |
| 106 | 5530 | 7.71 | 7.85 | 11.997 | 10.79 | 24.00 | Pass |
| 122 | 5610 | 7.72 | 7.90 | 12.082 | 10.82 | 24.00 | Pass |
| 138 | 5690 (For U-NII-2C) | -24.50 | -24.48 | 0.007 | -21.48 | 24.00 | Pass |
| 138 | 5690 (For U-NII-3) | 7.49 | 7.54 | 11.286 | 10.53 | 30.00 | Pass |
| 155 | 5775 | 7.67 | 7.78 | 11.846 | 10.74 | 30.00 | Pass |

Note:

For U-NII-2A, U-NII-2C Band:

Chain 0

- $11\text{dBm} + 10\log(83.24) = 30.20 > 24\text{dBm}$
- $11\text{dBm} + 10\log(83.27) = 30.20 > 24\text{dBm}$
- $11\text{dBm} + 10\log(83.84) = 30.23 > 24\text{dBm}$
- $11\text{dBm} + 10\log(5725.00 - 5650.51) = 29.72 > 24\text{dBm}$

Chain 1

- $11\text{dBm} + 10\log(83.37) = 30.21 > 24\text{dBm}$
- $11\text{dBm} + 10\log(82.97) = 30.18 > 24\text{dBm}$
- $11\text{dBm} + 10\log(83.44) = 30.21 > 24\text{dBm}$
- $11\text{dBm} + 10\log(5725.00 - 5650.46) = 29.72 > 24\text{dBm}$

802.11ax (HE160)

| Chan. | Freq. (MHz) | Average Power (dBm) | | Total Power (mW) | Total Power (dBm) | Power Limit (dBm) | Pass / Fail |
|-------|-------------------------|---------------------|---------|------------------|-------------------|-------------------|-------------|
| | | Chain 0 | Chain 1 | | | | |
| *50 | 5250 (U-NII-1 Band) | 7.28 | 7.60 | 11.100 | 10.45 | 24.00 | Pass |
| *50 | 5250 (U-NII-2A Band) | -32.50 | -32.88 | 0.001 | -29.68 | 24.00 | Pass |
| 114 | 5570 | 7.73 | 7.57 | 11.644 | 10.66 | 24.00 | Pass |

Note:

For U-NII-2A Band:

Chain 0

- $11\text{dBm} + 10\log(88.18) = 30.45 > 24\text{dBm}$
- $11\text{dBm} + 10\log(169.33) = 33.28 > 24\text{dBm}$

Chain 1

- $11\text{dBm} + 10\log(88.52) = 30.47 > 24\text{dBm}$
- $11\text{dBm} + 10\log(169.69) = 33.29 > 24\text{dBm}$

RU52

802.11ax (HE20)

| Chan. | Freq. (MHz) | Average Power (dBm) | | Total Power (mW) | Total Power (dBm) | Power Limit (dBm) | Pass / Fail |
|-------|------------------------|---------------------|---------|------------------------|-------------------------|-------------------------|----------------|
| | | Chain 0 | Chain 1 | | | | |
| 36 | 5180 | 7.52 | 7.84 | 11.731 | 10.69 | 24.00 | Pass |
| 40 | 5200 | 7.54 | 7.72 | 11.591 | 10.64 | 24.00 | Pass |
| 48 | 5240 | 7.67 | 7.77 | 11.832 | 10.73 | 24.00 | Pass |
| 52 | 5260 | 7.54 | 7.82 | 11.729 | 10.69 | 24.00 | Pass |
| 60 | 5300 | 7.71 | 7.77 | 11.886 | 10.75 | 24.00 | Pass |
| 64 | 5320 | 7.70 | 7.85 | 11.984 | 10.79 | 24.00 | Pass |
| 100 | 5500 | 7.63 | 7.78 | 11.792 | 10.72 | 24.00 | Pass |
| 116 | 5580 | 7.62 | 7.78 | 11.779 | 10.71 | 24.00 | Pass |
| 140 | 5700 | 7.79 | 7.90 | 12.178 | 10.86 | 24.00 | Pass |
| 144 | 5720 (For U-NII-2C) | -13.67 | -13.08 | 0.092 | -10.35 | 22.63 | Pass |
| 144 | 5720 (For U-NII-3) | 7.32 | 7.55 | 11.084 | 10.45 | 30.00 | Pass |
| 149 | 5745 | 7.55 | 7.81 | 11.728 | 10.69 | 30.00 | Pass |
| 157 | 5785 | 7.54 | 7.87 | 11.799 | 10.72 | 30.00 | Pass |
| 165 | 5825 | 7.64 | 7.88 | 11.945 | 10.77 | 30.00 | Pass |

Note:

For U-NII-2A, U-NII-2C Band:

Chain 0

1. $11\text{dBm} + 10\log(22.02) = 24.42 > 24\text{dBm}$
2. $11\text{dBm} + 10\log(21.64) = 24.35 > 24\text{dBm}$
3. $11\text{dBm} + 10\log(21.31) = 24.28 > 24\text{dBm}$
4. $11\text{dBm} + 10\log(21.41) = 24.30 > 24\text{dBm}$
5. $11\text{dBm} + 10\log(21.70) = 24.36 > 24\text{dBm}$
6. $11\text{dBm} + 10\log(21.56) = 24.33 > 24\text{dBm}$
7. $11\text{dBm} + 10\log(5725.00 - 5710.05) = 22.74 < 24\text{dBm}$

Chain 1

1. $11\text{dBm} + 10\log(21.45) = 24.31 > 24\text{dBm}$
2. $11\text{dBm} + 10\log(20.98) = 24.21 > 24\text{dBm}$
3. $11\text{dBm} + 10\log(20.91) = 24.20 > 24\text{dBm}$
4. $11\text{dBm} + 10\log(21.38) = 24.30 > 24\text{dBm}$
5. $11\text{dBm} + 10\log(21.42) = 24.30 > 24\text{dBm}$
6. $11\text{dBm} + 10\log(21.13) = 24.24 > 24\text{dBm}$
7. $11\text{dBm} + 10\log(5725.00 - 5710.42) = 22.63 < 24\text{dBm}$

802.11ax (HE40)

| Chan. | Freq. (MHz) | Average Power (dBm) | | Total Power (mW) | Total Power (dBm) | Power Limit (dBm) | Pass / Fail |
|-------|------------------------|---------------------|---------|------------------|-------------------|-------------------|-------------|
| | | Chain 0 | Chain 1 | | | | |
| 38 | 5190 | 7.55 | 7.87 | 11.812 | 10.72 | 24.00 | Pass |
| 46 | 5230 | 7.66 | 7.71 | 11.736 | 10.70 | 24.00 | Pass |
| 54 | 5270 | 7.63 | 7.84 | 11.876 | 10.75 | 24.00 | Pass |
| 62 | 5310 | 7.70 | 7.77 | 11.873 | 10.75 | 24.00 | Pass |
| 102 | 5510 | 7.67 | 7.78 | 11.846 | 10.74 | 24.00 | Pass |
| 110 | 5550 | 7.61 | 7.82 | 11.821 | 10.73 | 24.00 | Pass |
| 134 | 5670 | 7.70 | 7.92 | 12.083 | 10.82 | 24.00 | Pass |
| 142 | 5710 (For U-NII-2C) | -6.22 | -7.55 | 0.415 | -3.82 | 24.00 | Pass |
| 142 | 5710 (For U-NII-3) | 7.42 | 7.54 | 11.196 | 10.49 | 30.00 | Pass |
| 151 | 5755 | 7.62 | 7.73 | 11.710 | 10.69 | 30.00 | Pass |
| 159 | 5795 | 7.70 | 7.83 | 11.956 | 10.78 | 30.00 | Pass |

Note:

For U-NII-2A, U-NII-2C Band:

Chain 0

1. $11\text{dBm} + 10\log(42.37) = 27.27 > 24\text{dBm}$
2. $11\text{dBm} + 10\log(42.28) = 27.26 > 24\text{dBm}$
3. $11\text{dBm} + 10\log(42.34) = 27.26 > 24\text{dBm}$
4. $11\text{dBm} + 10\log(41.53) = 27.18 > 24\text{dBm}$
5. $11\text{dBm} + 10\log(41.97) = 27.22 > 24\text{dBm}$
6. $11\text{dBm} + 10\log(5725.00 - 5690.12) = 26.42 > 24\text{dBm}$

Chain 1

1. $11\text{dBm} + 10\log(41.69) = 27.20 > 24\text{dBm}$
2. $11\text{dBm} + 10\log(42.09) = 27.24 > 24\text{dBm}$
3. $11\text{dBm} + 10\log(42.17) = 27.25 > 24\text{dBm}$
4. $11\text{dBm} + 10\log(42.47) = 27.28 > 24\text{dBm}$
5. $11\text{dBm} + 10\log(41.89) = 27.22 > 24\text{dBm}$
6. $11\text{dBm} + 10\log(5725.00 - 5690.20) = 26.41 > 24\text{dBm}$

802.11ax (HE80)

| Chan. | Freq. (MHz) | Average Power (dBm) | | Total Power (mW) | Total Power (dBm) | Power Limit (dBm) | Pass / Fail |
|-------|------------------------|---------------------|---------|------------------|-------------------|-------------------|-------------|
| | | Chain 0 | Chain 1 | | | | |
| 42 | 5210 | 7.61 | 7.70 | 11.656 | 10.67 | 24.00 | Pass |
| 58 | 5290 | 7.63 | 7.77 | 11.778 | 10.71 | 24.00 | Pass |
| 106 | 5530 | 7.70 | 7.81 | 11.928 | 10.77 | 24.00 | Pass |
| 122 | 5610 | 7.67 | 7.87 | 11.971 | 10.78 | 24.00 | Pass |
| 138 | 5690 (For U-NII-2C) | 7.73 | 7.82 | 11.983 | 10.79 | 24.00 | Pass |
| 138 | 5690 (For U-NII-3) | 7.62 | 7.74 | 11.724 | 10.69 | 30.00 | Pass |
| 155 | 5775 | 7.61 | 7.70 | 11.656 | 10.67 | 30.00 | Pass |

Note:

For U-NII-2A, U-NII-2C Band:

Chain 0

- $11\text{dBm} + 10\log(83.24) = 30.20 > 24\text{dBm}$
- $11\text{dBm} + 10\log(83.27) = 30.20 > 24\text{dBm}$
- $11\text{dBm} + 10\log(83.84) = 30.23 > 24\text{dBm}$
- $11\text{dBm} + 10\log(5725.00 - 5650.51) = 29.72 > 24\text{dBm}$

Chain 1

- $11\text{dBm} + 10\log(83.37) = 30.21 > 24\text{dBm}$
- $11\text{dBm} + 10\log(82.97) = 30.18 > 24\text{dBm}$
- $11\text{dBm} + 10\log(83.44) = 30.21 > 24\text{dBm}$
- $11\text{dBm} + 10\log(5725.00 - 5650.46) = 29.72 > 24\text{dBm}$

802.11ax (HE160)

| Chan. | Freq. (MHz) | Average Power (dBm) | | Total Power (mW) | Total Power (dBm) | Power Limit (dBm) | Pass / Fail |
|-------|-------------------------|---------------------|---------|------------------|-------------------|-------------------|-------------|
| | | Chain 0 | Chain 1 | | | | |
| *50 | 5250 (U-NII-1 Band) | 7.12 | 7.74 | 11.095 | 10.45 | 24.00 | Pass |
| *50 | 5250 (U-NII-2A Band) | -33.17 | -33.48 | 0.001 | -30.31 | 24.00 | Pass |
| 114 | 5570 | 7.71 | 7.56 | 11.604 | 10.65 | 24.00 | Pass |

Note:

For U-NII-2A Band:

Chain 0

- $11\text{dBm} + 10\log(88.61) = 30.47 > 24\text{dBm}$
- $11\text{dBm} + 10\log(169.33) = 33.28 > 24\text{dBm}$

Chain 1

- $11\text{dBm} + 10\log(87.37) = 30.41 > 24\text{dBm}$
- $11\text{dBm} + 10\log(169.69) = 33.29 > 24\text{dBm}$

RU106

802.11ax (HE20)

| Chan. | Freq. (MHz) | Average Power (dBm) | | Total Power (mW) | Total Power (dBm) | Power Limit (dBm) | Pass / Fail |
|-------|------------------------|---------------------|---------|------------------|-------------------|-------------------|-------------|
| | | Chain 0 | Chain 1 | | | | |
| 36 | 5180 | 7.51 | 7.82 | 11.690 | 10.68 | 24.00 | Pass |
| 40 | 5200 | 7.52 | 7.70 | 11.538 | 10.62 | 24.00 | Pass |
| 48 | 5240 | 7.64 | 7.74 | 11.751 | 10.70 | 24.00 | Pass |
| 52 | 5260 | 7.52 | 7.80 | 11.675 | 10.67 | 24.00 | Pass |
| 60 | 5300 | 7.64 | 7.73 | 11.737 | 10.70 | 24.00 | Pass |
| 64 | 5320 | 7.67 | 7.82 | 11.901 | 10.76 | 24.00 | Pass |
| 100 | 5500 | 7.61 | 7.76 | 11.738 | 10.70 | 24.00 | Pass |
| 116 | 5580 | 7.60 | 7.77 | 11.739 | 10.70 | 24.00 | Pass |
| 140 | 5700 | 7.71 | 7.84 | 11.983 | 10.79 | 24.00 | Pass |
| 144 | 5720 (For U-NII-2C) | 4.22 | 4.35 | 5.365 | 7.30 | 22.73 | Pass |
| 144 | 5720 (For U-NII-3) | 4.81 | 5.09 | 6.255 | 7.96 | 30.00 | Pass |
| 149 | 5745 | 7.53 | 7.79 | 11.674 | 10.67 | 30.00 | Pass |
| 157 | 5785 | 7.51 | 7.84 | 11.718 | 10.69 | 30.00 | Pass |
| 165 | 5825 | 7.62 | 7.86 | 11.890 | 10.75 | 30.00 | Pass |

Note:

For U-NII-2A, U-NII-2C Band:

Chain 0

- $11\text{dBm} + 10\log(22.38) = 24.49 > 24\text{dBm}$
- $11\text{dBm} + 10\log(22.19) = 24.46 > 24\text{dBm}$
- $11\text{dBm} + 10\log(21.75) = 24.37 > 24\text{dBm}$
- $11\text{dBm} + 10\log(22.65) = 24.55 > 24\text{dBm}$
- $11\text{dBm} + 10\log(22.15) = 24.45 > 24\text{dBm}$
- $11\text{dBm} + 10\log(22.22) = 24.46 > 24\text{dBm}$
- $11\text{dBm} + 10\log(5725.00 - 5709.53) = 22.89 < 24\text{dBm}$

Chain 1

- $11\text{dBm} + 10\log(21.63) = 24.35 > 24\text{dBm}$
- $11\text{dBm} + 10\log(21.53) = 24.33 > 24\text{dBm}$
- $11\text{dBm} + 10\log(21.71) = 24.36 > 24\text{dBm}$
- $11\text{dBm} + 10\log(22.05) = 24.43 > 24\text{dBm}$
- $11\text{dBm} + 10\log(21.81) = 24.38 > 24\text{dBm}$
- $11\text{dBm} + 10\log(21.60) = 24.34 > 24\text{dBm}$
- $11\text{dBm} + 10\log(5725.00 - 5710.09) = 22.73 < 24\text{dBm}$

802.11ax (HE40)

| Chan. | Freq. (MHz) | Average Power (dBm) | | Total Power (mW) | Total Power (dBm) | Power Limit (dBm) | Pass / Fail |
|-------|------------------------|---------------------|---------|------------------|-------------------|-------------------|-------------|
| | | Chain 0 | Chain 1 | | | | |
| 38 | 5190 | 7.54 | 7.86 | 11.785 | 10.71 | 24.00 | Pass |
| 46 | 5230 | 7.65 | 7.70 | 11.709 | 10.69 | 24.00 | Pass |
| 54 | 5270 | 7.62 | 7.81 | 11.820 | 10.73 | 24.00 | Pass |
| 62 | 5310 | 7.69 | 7.76 | 11.845 | 10.74 | 24.00 | Pass |
| 102 | 5510 | 7.66 | 7.77 | 11.819 | 10.73 | 24.00 | Pass |
| 110 | 5550 | 7.60 | 7.80 | 11.780 | 10.71 | 24.00 | Pass |
| 134 | 5670 | 7.69 | 7.91 | 12.055 | 10.81 | 24.00 | Pass |
| 142 | 5710 (For U-NII-2C) | 4.48 | 4.45 | 5.592 | 7.48 | 24.00 | Pass |
| 142 | 5710 (For U-NII-3) | 4.22 | 4.33 | 5.353 | 7.29 | 30.00 | Pass |
| 151 | 5755 | 7.60 | 7.71 | 11.656 | 10.67 | 30.00 | Pass |
| 159 | 5795 | 7.69 | 7.81 | 11.914 | 10.76 | 30.00 | Pass |

Note:

For U-NII-2A, U-NII-2C Band:

Chain 0

1. $11\text{dBm} + 10\log(42.37) = 27.27 > 24\text{dBm}$
2. $11\text{dBm} + 10\log(42.28) = 27.26 > 24\text{dBm}$
3. $11\text{dBm} + 10\log(42.34) = 27.26 > 24\text{dBm}$
4. $11\text{dBm} + 10\log(41.53) = 27.18 > 24\text{dBm}$
5. $11\text{dBm} + 10\log(41.97) = 27.22 > 24\text{dBm}$
6. $11\text{dBm} + 10\log(5725.00 - 5690.12) = 26.42 > 24\text{dBm}$

Chain 1

1. $11\text{dBm} + 10\log(41.69) = 27.20 > 24\text{dBm}$
2. $11\text{dBm} + 10\log(42.09) = 27.24 > 24\text{dBm}$
3. $11\text{dBm} + 10\log(42.17) = 27.25 > 24\text{dBm}$
4. $11\text{dBm} + 10\log(42.47) = 27.28 > 24\text{dBm}$
5. $11\text{dBm} + 10\log(41.89) = 27.22 > 24\text{dBm}$
6. $11\text{dBm} + 10\log(5725.00 - 5690.20) = 26.41 > 24\text{dBm}$

802.11ax (HE80)

| Chan. | Freq. (MHz) | Average Power (dBm) | | Total Power (mW) | Total Power (dBm) | Power Limit (dBm) | Pass / Fail |
|-------|------------------------|---------------------|---------|------------------|-------------------|-------------------|-------------|
| | | Chain 0 | Chain 1 | | | | |
| 42 | 5210 | 7.60 | 7.69 | 11.629 | 10.66 | 24.00 | Pass |
| 58 | 5290 | 7.62 | 7.76 | 11.751 | 10.70 | 24.00 | Pass |
| 106 | 5530 | 7.69 | 7.80 | 11.900 | 10.76 | 24.00 | Pass |
| 122 | 5610 | 7.62 | 7.81 | 11.820 | 10.73 | 24.00 | Pass |
| 138 | 5690 (For U-NII-2C) | 4.90 | 4.70 | 6.042 | 7.81 | 24.00 | Pass |
| 138 | 5690 (For U-NII-3) | 4.42 | 4.43 | 5.540 | 7.44 | 30.00 | Pass |
| 155 | 5775 | 7.58 | 7.73 | 11.657 | 10.67 | 30.00 | Pass |

Note:

For U-NII-2A, U-NII-2C Band:

Chain 0

- $11\text{dBm} + 10\log(83.24) = 30.20 > 24\text{dBm}$
- $11\text{dBm} + 10\log(83.27) = 30.20 > 24\text{dBm}$
- $11\text{dBm} + 10\log(83.84) = 30.23 > 24\text{dBm}$
- $11\text{dBm} + 10\log(5725.00 - 5650.51) = 29.72 > 24\text{dBm}$

Chain 1

- $11\text{dBm} + 10\log(83.37) = 30.21 > 24\text{dBm}$
- $11\text{dBm} + 10\log(82.97) = 30.18 > 24\text{dBm}$
- $11\text{dBm} + 10\log(83.44) = 30.21 > 24\text{dBm}$
- $11\text{dBm} + 10\log(5725.00 - 5650.46) = 29.72 > 24\text{dBm}$

802.11ax (HE160)

| Chan. | Freq. (MHz) | Average Power (dBm) | | Total Power (mW) | Total Power (dBm) | Power Limit (dBm) | Pass / Fail |
|-------|-------------------------|---------------------|---------|------------------|-------------------|-------------------|-------------|
| | | Chain 0 | Chain 1 | | | | |
| *50 | 5250 (U-NII-1 Band) | 7.23 | 7.54 | 10.960 | 10.40 | 24.00 | Pass |
| *50 | 5250 (U-NII-2A Band) | -34.48 | -34.25 | 0.001 | -31.35 | 24.00 | Pass |
| 114 | 5570 | 7.68 | 7.55 | 11.550 | 10.63 | 24.00 | Pass |

Note:

For U-NII-2A Band:

Chain 0

- $11\text{dBm} + 10\log(89.32) = 30.50 > 24\text{dBm}$
- $11\text{dBm} + 10\log(169.33) = 33.28 > 24\text{dBm}$

Chain 1

- $11\text{dBm} + 10\log(90.31) = 30.55 > 24\text{dBm}$
- $11\text{dBm} + 10\log(169.69) = 33.29 > 24\text{dBm}$

RU242

802.11ax (HE40)

| Chan. | Freq. (MHz) | Average Power (dBm) | | Total Power (mW) | Total Power (dBm) | Power Limit (dBm) | Pass / Fail |
|-------|------------------------|---------------------|---------|------------------|-------------------|-------------------|-------------|
| | | Chain 0 | Chain 1 | | | | |
| 38 | 5190 | 7.53 | 7.81 | 11.702 | 10.68 | 24.00 | Pass |
| 46 | 5230 | 7.64 | 7.68 | 11.669 | 10.67 | 24.00 | Pass |
| 54 | 5270 | 7.61 | 7.79 | 11.779 | 10.71 | 24.00 | Pass |
| 62 | 5310 | 7.68 | 7.74 | 11.804 | 10.72 | 24.00 | Pass |
| 102 | 5510 | 7.62 | 7.75 | 11.738 | 10.70 | 24.00 | Pass |
| 110 | 5550 | 7.59 | 7.79 | 11.753 | 10.70 | 24.00 | Pass |
| 134 | 5670 | 7.68 | 7.85 | 11.957 | 10.78 | 24.00 | Pass |
| 142 | 5710 (For U-NII-2C) | 6.33 | 6.47 | 8.731 | 9.41 | 24.00 | Pass |
| 142 | 5710 (For U-NII-3) | 0.74 | 1.01 | 2.448 | 3.89 | 30.00 | Pass |
| 151 | 5755 | 7.59 | 7.69 | 11.616 | 10.65 | 30.00 | Pass |
| 159 | 5795 | 7.67 | 7.79 | 11.860 | 10.74 | 30.00 | Pass |

Note:

For U-NII-2A, U-NII-2C Band:

Chain 0

1. $11\text{dBm} + 10\log(42.37) = 27.27 > 24\text{dBm}$
2. $11\text{dBm} + 10\log(42.28) = 27.26 > 24\text{dBm}$
3. $11\text{dBm} + 10\log(42.34) = 27.26 > 24\text{dBm}$
4. $11\text{dBm} + 10\log(41.53) = 27.18 > 24\text{dBm}$
5. $11\text{dBm} + 10\log(41.97) = 27.22 > 24\text{dBm}$
6. $11\text{dBm} + 10\log(5725.00 - 5690.12) = 26.42 > 24\text{dBm}$

Chain 1

1. $11\text{dBm} + 10\log(41.69) = 27.20 > 24\text{dBm}$
2. $11\text{dBm} + 10\log(42.09) = 27.24 > 24\text{dBm}$
3. $11\text{dBm} + 10\log(42.17) = 27.25 > 24\text{dBm}$
4. $11\text{dBm} + 10\log(42.47) = 27.28 > 24\text{dBm}$
5. $11\text{dBm} + 10\log(41.89) = 27.22 > 24\text{dBm}$
6. $11\text{dBm} + 10\log(5725.00 - 5690.20) = 26.41 > 24\text{dBm}$

802.11ax (HE80)

| Chan. | Freq. (MHz) | Average Power (dBm) | | Total Power (mW) | Total Power (dBm) | Power Limit (dBm) | Pass / Fail |
|-------|------------------------|---------------------|---------|------------------|-------------------|-------------------|-------------|
| | | Chain 0 | Chain 1 | | | | |
| 42 | 5210 | 7.58 | 7.67 | 11.576 | 10.64 | 24.00 | Pass |
| 58 | 5290 | 7.60 | 7.74 | 11.697 | 10.68 | 24.00 | Pass |
| 106 | 5530 | 7.60 | 7.77 | 11.739 | 10.70 | 24.00 | Pass |
| 122 | 5610 | 7.58 | 7.71 | 11.630 | 10.66 | 24.00 | Pass |
| 138 | 5690 (For U-NII-2C) | 6.88 | 7.11 | 10.016 | 10.01 | 24.00 | Pass |
| 138 | 5690 (For U-NII-3) | -2.38 | -2.24 | 1.175 | 0.70 | 30.00 | Pass |
| 155 | 5775 | 7.53 | 7.57 | 11.377 | 10.56 | 30.00 | Pass |

Note:

For U-NII-2A, U-NII-2C Band:

Chain 0

- $11\text{dBm} + 10\log(83.24) = 30.20 > 24\text{dBm}$
- $11\text{dBm} + 10\log(83.27) = 30.20 > 24\text{dBm}$
- $11\text{dBm} + 10\log(83.84) = 30.23 > 24\text{dBm}$
- $11\text{dBm} + 10\log(5725.00 - 5650.51) = 29.72 > 24\text{dBm}$

Chain 1

- $11\text{dBm} + 10\log(83.37) = 30.21 > 24\text{dBm}$
- $11\text{dBm} + 10\log(82.97) = 30.18 > 24\text{dBm}$
- $11\text{dBm} + 10\log(83.44) = 30.21 > 24\text{dBm}$
- $11\text{dBm} + 10\log(5725.00 - 5650.46) = 29.72 > 24\text{dBm}$

802.11ax (HE160)

| Chan. | Freq. (MHz) | Average Power (dBm) | | Total Power (mW) | Total Power (dBm) | Power Limit (dBm) | Pass / Fail |
|-------|-------------------------|---------------------|---------|------------------|-------------------|-------------------|-------------|
| | | Chain 0 | Chain 1 | | | | |
| *50 | 5250 (U-NII-1 Band) | 7.18 | 7.44 | 10.770 | 10.32 | 24.00 | Pass |
| *50 | 5250 (U-NII-2A Band) | -33.36 | -33.35 | 0.001 | -30.34 | 24.00 | Pass |
| 114 | 5570 | 7.64 | 7.53 | 11.470 | 10.60 | 24.00 | Pass |

Note:

For U-NII-2A Band:

Chain 0

- $11\text{dBm} + 10\log(89.17) = 30.50 > 24\text{dBm}$
- $11\text{dBm} + 10\log(169.33) = 33.28 > 24\text{dBm}$

Chain 1

- $11\text{dBm} + 10\log(89.64) = 30.52 > 24\text{dBm}$
- $11\text{dBm} + 10\log(169.69) = 33.29 > 24\text{dBm}$

RU484

802.11ax (HE80)

| Chan. | Freq. (MHz) | Average Power (dBm) | | Total Power (mW) | Total Power (dBm) | Power Limit (dBm) | Pass / Fail |
|-------|------------------------|---------------------|---------|------------------|-------------------|-------------------|-------------|
| | | Chain 0 | Chain 1 | | | | |
| 42 | 5210 | 7.58 | 7.67 | 11.576 | 10.64 | 24.00 | Pass |
| 58 | 5290 | 7.60 | 7.74 | 11.697 | 10.68 | 24.00 | Pass |
| 106 | 5530 | 7.60 | 7.77 | 11.739 | 10.70 | 24.00 | Pass |
| 122 | 5610 | 7.58 | 7.71 | 11.630 | 10.66 | 24.00 | Pass |
| 138 | 5690 (For U-NII-2C) | 6.88 | 7.11 | 10.016 | 10.01 | 24.00 | Pass |
| 138 | 5690 (For U-NII-3) | -2.38 | -2.24 | 1.175 | 0.70 | 30.00 | Pass |
| 155 | 5775 | 7.53 | 7.57 | 11.377 | 10.56 | 30.00 | Pass |

Note:

For U-NII-2A, U-NII-2C Band:

Chain 0

- $11\text{dBm} + 10\log(83.24) = 30.20 > 24\text{dBm}$
- $11\text{dBm} + 10\log(83.27) = 30.20 > 24\text{dBm}$
- $11\text{dBm} + 10\log(83.84) = 30.23 > 24\text{dBm}$
- $11\text{dBm} + 10\log(5725.00 - 5650.51) = 29.72 > 24\text{dBm}$

Chain 1

- $11\text{dBm} + 10\log(83.37) = 30.21 > 24\text{dBm}$
- $11\text{dBm} + 10\log(82.97) = 30.18 > 24\text{dBm}$
- $11\text{dBm} + 10\log(83.44) = 30.21 > 24\text{dBm}$
- $11\text{dBm} + 10\log(5725.00 - 5650.46) = 29.72 > 24\text{dBm}$

802.11ax (HE160)

| Chan. | Freq. (MHz) | Average Power (dBm) | | Total Power (mW) | Total Power (dBm) | Power Limit (dBm) | Pass / Fail |
|-------|-------------------------|---------------------|---------|------------------|-------------------|-------------------|-------------|
| | | Chain 0 | Chain 1 | | | | |
| *50 | 5250 (U-NII-1 Band) | 7.18 | 7.44 | 10.770 | 10.32 | 24.00 | Pass |
| *50 | 5250 (U-NII-2A Band) | -33.36 | -33.35 | 0.001 | -30.34 | 24.00 | Pass |
| 114 | 5570 | 7.64 | 7.53 | 11.470 | 10.60 | 24.00 | Pass |

Note:

For U-NII-2A Band:

Chain 0

- $11\text{dBm} + 10\log(89.17) = 30.50 > 24\text{dBm}$
- $11\text{dBm} + 10\log(169.33) = 33.28 > 24\text{dBm}$

Chain 1

- $11\text{dBm} + 10\log(89.64) = 30.52 > 24\text{dBm}$
- $11\text{dBm} + 10\log(169.69) = 33.29 > 24\text{dBm}$

RU996

802.11ax (HE160)

| Chan. | Freq. (MHz) | Average Power (dBm) | | Total Power (mW) | Total Power (dBm) | Power Limit (dBm) | Pass / Fail |
|-------|-------------------------|---------------------|---------|------------------------|-------------------------|-------------------------|----------------|
| | | Chain 0 | Chain 1 | | | | |
| *50 | 5250 (U-NII-1 Band) | 7.17 | 7.55 | 10.900 | 10.37 | 24.00 | Pass |
| *50 | 5250 (U-NII-2A Band) | -28.63 | -28.26 | 0.003 | -25.43 | 24.00 | Pass |
| 114 | 5570 | 7.61 | 7.51 | 11.404 | 10.57 | 24.00 | Pass |

Note:

For U-NII-2A Band:

Chain 0

1. $11\text{dBm} + 10\log(88.15) = 30.45 > 24\text{dBm}$
2. $11\text{dBm} + 10\log(169.33) = 33.28 > 24\text{dBm}$

Chain 1

1. $11\text{dBm} + 10\log(88.11) = 30.45 > 24\text{dBm}$
2. $11\text{dBm} + 10\log(169.69) = 33.29 > 24\text{dBm}$

26dB Bandwidth:
802.11a

| Chan. | Freq. (MHz) | 26dBc Bandwidth (MHz) | |
|-------|------------------------|-----------------------|---------|
| | | Chain 0 | Chain 1 |
| 52 | 5260 | 19.56 | 19.41 |
| 60 | 5300 | 19.55 | 19.35 |
| 64 | 5320 | 19.65 | 19.51 |
| 100 | 5500 | 19.73 | 19.65 |
| 116 | 5580 | 19.57 | 19.40 |
| 140 | 5700 | 19.53 | 19.42 |
| 144 | 5720 (For U-NII-2C) | 15.05 | 14.85 |

For CH144 (U-NII-2C Band): The 26dBc bandwidth below 5725MHz = 5725MHz - Marker 1

Full RU

802.11ax (HE20)

| Chan. | Freq. (MHz) | 26dBc Bandwidth (MHz) | |
|-------|------------------------|-----------------------|---------|
| | | Chain 0 | Chain 1 |
| 52 | 5260 | 21.41 | 21.52 |
| 60 | 5300 | 21.52 | 21.62 |
| 64 | 5320 | 21.22 | 21.33 |
| 100 | 5500 | 21.49 | 21.26 |
| 116 | 5580 | 21.49 | 21.68 |
| 140 | 5700 | 21.39 | 21.27 |
| 144 | 5720 (For U-NII-2C) | 15.80 | 15.89 |

For CH144 (U-NII-2C Band): The 26dBc bandwidth below 5725MHz = 5725MHz - Marker 1

802.11ax (HE40)

| Chan. | Freq. (MHz) | 26dBc Bandwidth (MHz) | |
|-------|------------------------|-----------------------|---------|
| | | Chain 0 | Chain 1 |
| 54 | 5270 | 42.37 | 41.69 |
| 62 | 5310 | 42.28 | 42.09 |
| 102 | 5510 | 42.34 | 42.17 |
| 110 | 5550 | 41.53 | 42.47 |
| 134 | 5670 | 41.97 | 41.89 |
| 142 | 5710 (For U-NII-2C) | 35.81 | 35.81 |

For CH142 (U-NII-2C Band): The 26dBc bandwidth below 5725MHz = 5725MHz - Marker 1

802.11ax (HE80)

| Chan. | Freq. (MHz) | 26dBc Bandwidth (MHz) | |
|-------|------------------------|-----------------------|---------|
| | | Chain 0 | Chain 1 |
| 58 | 5290 | 83.24 | 83.37 |
| 106 | 5530 | 83.27 | 82.97 |
| 122 | 5610 | 83.84 | 83.44 |
| 138 | 5690 (For U-NII-2C) | 75.93 | 76.41 |

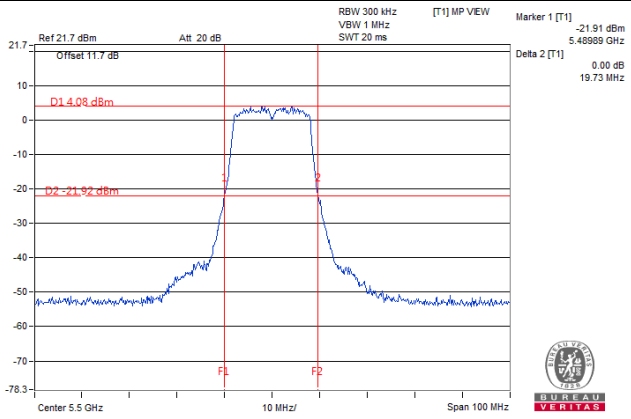
For CH138 (U-NII-2C Band): The 26dBc bandwidth below 5725MHz = 5725MHz - Marker 1

802.11ax (HE160)

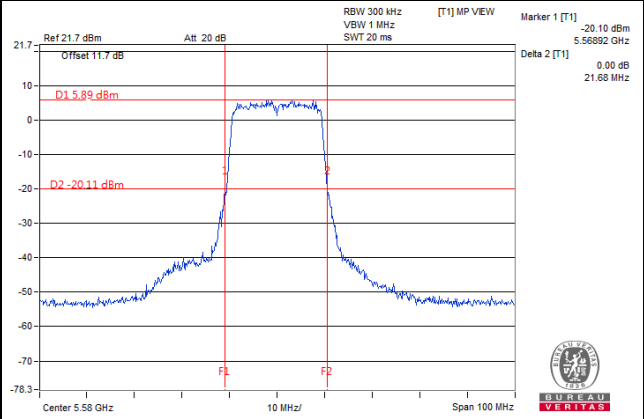
| Chan. | Freq. (MHz) | 26dBc Bandwidth (MHz) | |
|-------|-------------------------|-----------------------|---------|
| | | Chain 0 | Chain 1 |
| 50 | 5250 (U-NII-2A Band) | 84.67 | 84.30 |
| 114 | 5570 | 169.33 | 169.69 |

Spectrum Plot of Worst Value

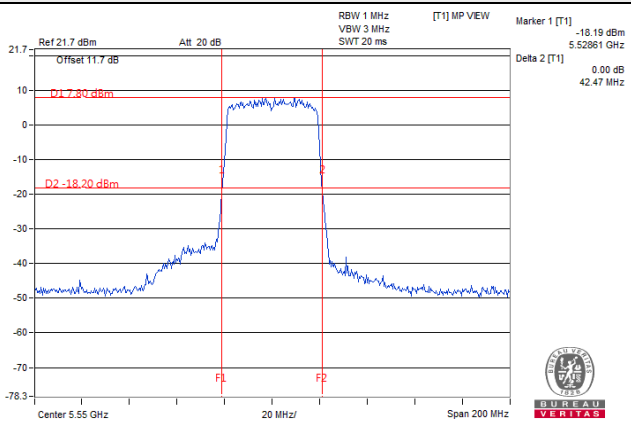
802.11a



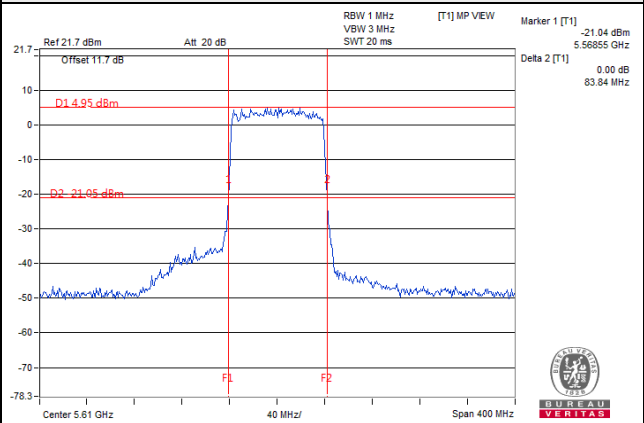
802.11ax (HE20)



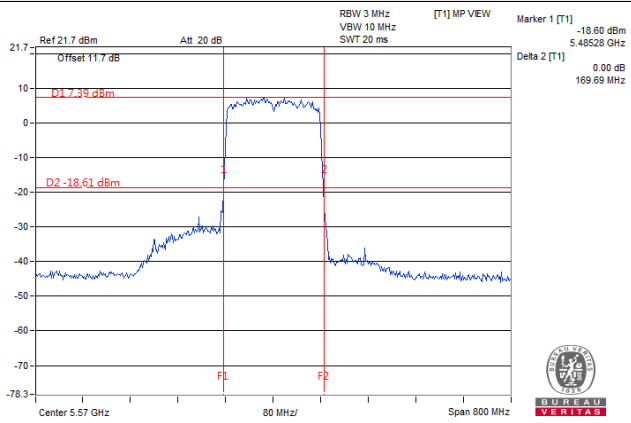
802.11ax (HE40)



802.11ax (HE80)



802.11ax (HE160)



**Partial RU
RU26**

802.11ax (HE20)

| Chan. | Freq. (MHz) | 26dBc Bandwidth (MHz) | |
|-------|------------------------|-----------------------|---------|
| | | Chain 0 | Chain 1 |
| 52 | 5260 | 21.11 | 20.82 |
| 60 | 5300 | 21.06 | 21.23 |
| 64 | 5320 | 20.74 | 20.88 |
| 100 | 5500 | 21.04 | 21.00 |
| 116 | 5580 | 21.19 | 20.87 |
| 140 | 5700 | 21.31 | 20.97 |
| 144 | 5720 (For U-NII-2C) | 14.64 | 14.47 |

For CH144 (U-NII-2C Band): The 26dBc bandwidth below 5725MHz = 5725MHz - Marker 1

802.11ax (HE40)

| Chan. | Freq. (MHz) | 26dBc Bandwidth (MHz) | |
|-------|------------------------|-----------------------|---------|
| | | Chain 0 | Chain 1 |
| 54 | 5270 | 42.37 | 41.69 |
| 62 | 5310 | 42.28 | 42.09 |
| 102 | 5510 | 42.34 | 42.17 |
| 110 | 5550 | 41.53 | 42.47 |
| 134 | 5670 | 41.97 | 41.89 |
| 142 | 5710 (For U-NII-2C) | 34.88 | 34.80 |

For CH142 (U-NII-2C Band): The 26dBc bandwidth below 5725MHz = 5725MHz - Marker 1

802.11ax (HE80)

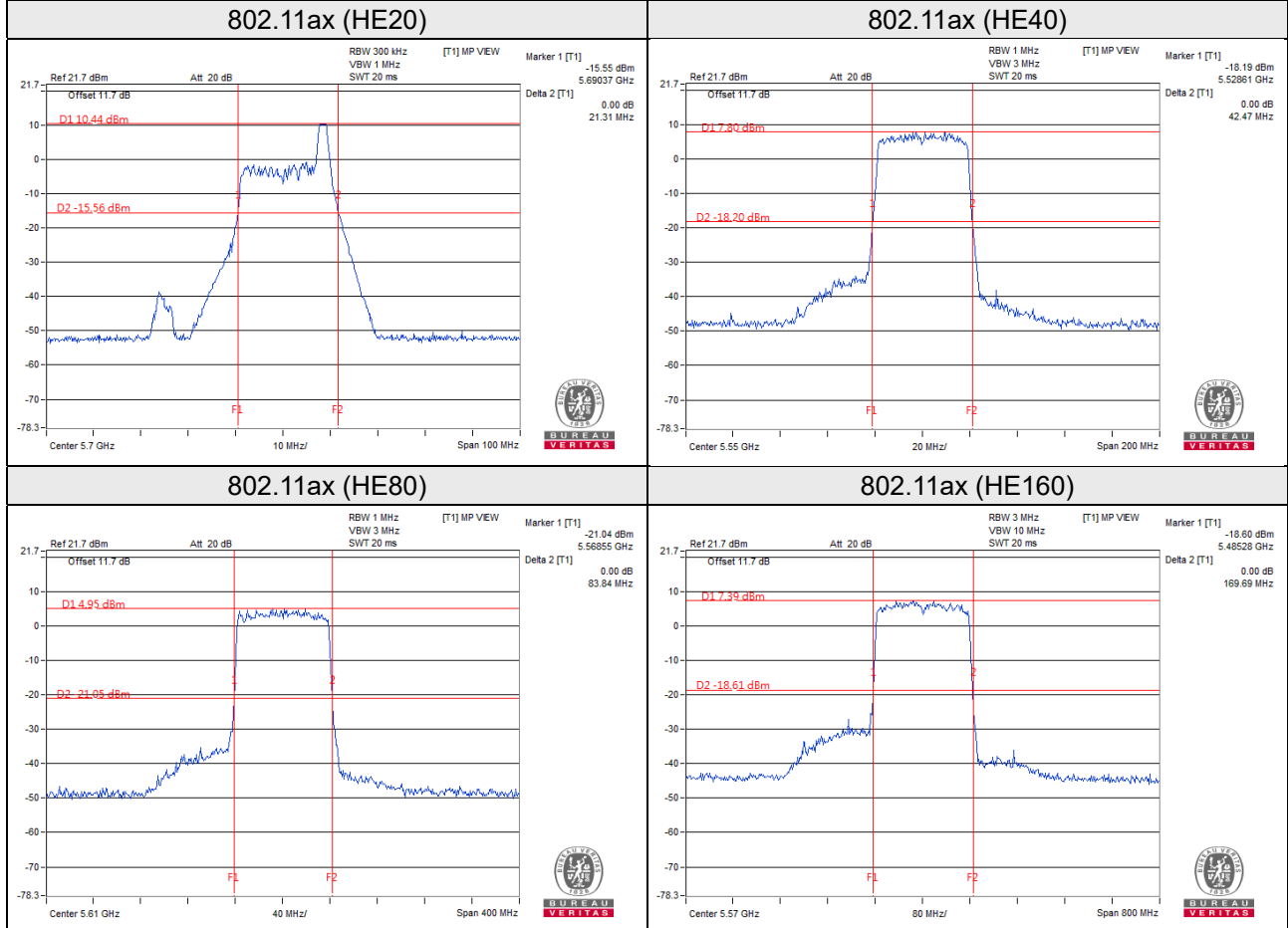
| Chan. | Freq. (MHz) | 26dBc Bandwidth (MHz) | |
|-------|------------------------|-----------------------|---------|
| | | Chain 0 | Chain 1 |
| 58 | 5290 | 83.24 | 83.37 |
| 106 | 5530 | 83.27 | 82.97 |
| 122 | 5610 | 83.84 | 83.44 |
| 138 | 5690 (For U-NII-2C) | 74.49 | 74.54 |

For CH138 (U-NII-2C Band): The 26dBc bandwidth below 5725MHz = 5725MHz - Marker 1

802.11ax (HE160)

| Chan. | Freq. (MHz) | 26dBc Bandwidth (MHz) | |
|-------|-------------------------|-----------------------|---------|
| | | Chain 0 | Chain 1 |
| 50 | 5250 (U-NII-2A Band) | 88.18 | 88.52 |
| 114 | 5570 | 169.33 | 169.69 |

Spectrum Plot of Worst Value



RU52

802.11ax (HE20)

| Chan. | Freq. (MHz) | 26dBc Bandwidth (MHz) | |
|-------|------------------------|-----------------------|---------|
| | | Chain 0 | Chain 1 |
| 52 | 5260 | 22.02 | 21.45 |
| 60 | 5300 | 21.64 | 20.98 |
| 64 | 5320 | 21.31 | 20.91 |
| 100 | 5500 | 21.41 | 21.38 |
| 116 | 5580 | 21.70 | 21.42 |
| 140 | 5700 | 21.56 | 21.13 |
| 144 | 5720 (For U-NII-2C) | 14.95 | 14.58 |

For CH144 (U-NII-2C Band): The 26dBc bandwidth below 5725MHz = 5725MHz - Marker 1

802.11ax (HE40)

| Chan. | Freq. (MHz) | 26dBc Bandwidth (MHz) | |
|-------|------------------------|-----------------------|---------|
| | | Chain 0 | Chain 1 |
| 54 | 5270 | 42.37 | 41.69 |
| 62 | 5310 | 42.28 | 42.09 |
| 102 | 5510 | 42.34 | 42.17 |
| 110 | 5550 | 41.53 | 42.47 |
| 134 | 5670 | 41.97 | 41.89 |
| 142 | 5710 (For U-NII-2C) | 34.88 | 34.80 |

For CH142 (U-NII-2C Band): The 26dBc bandwidth below 5725MHz = 5725MHz - Marker 1

802.11ax (HE80)

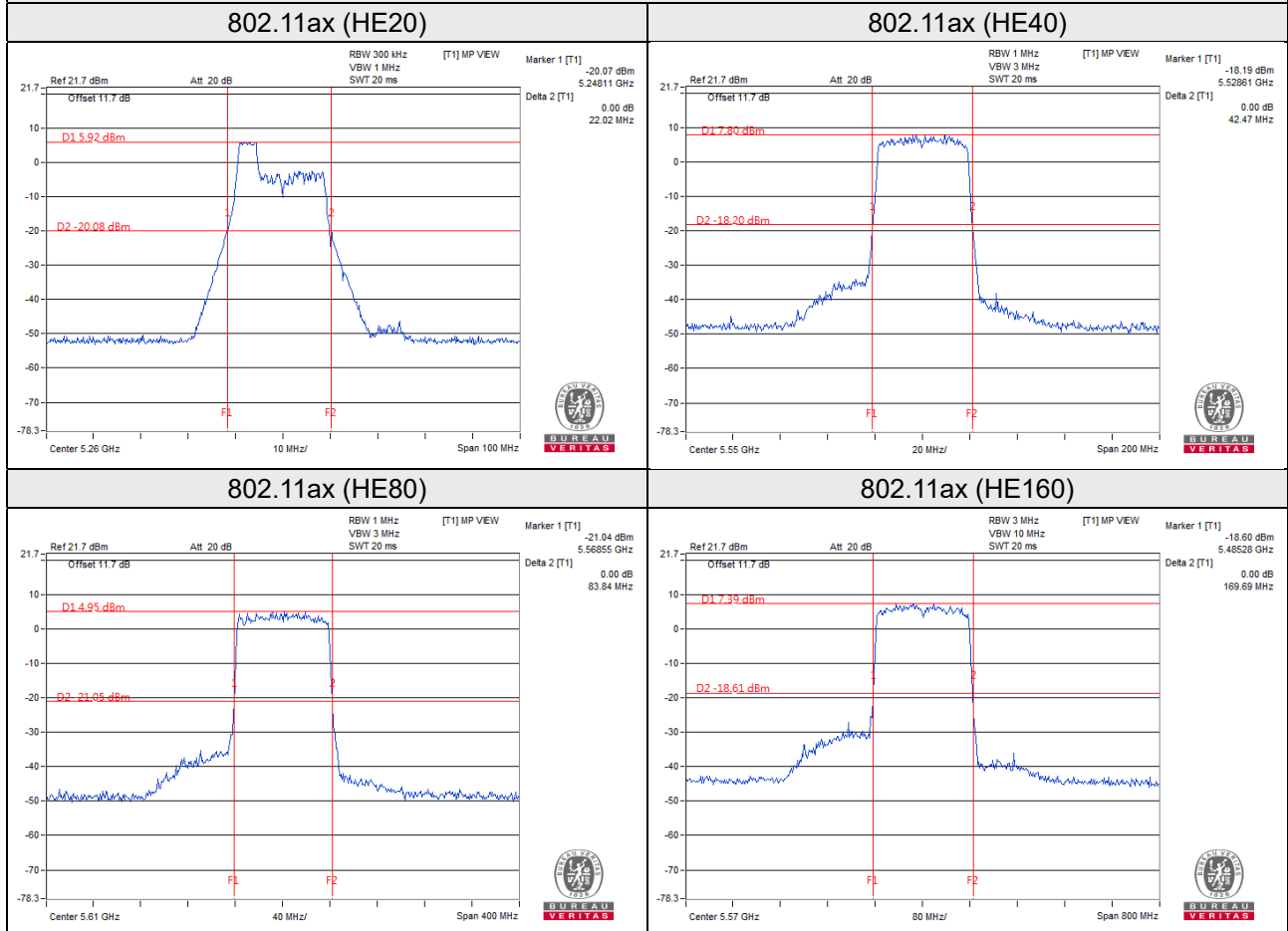
| Chan. | Freq. (MHz) | 26dBc Bandwidth (MHz) | |
|-------|------------------------|-----------------------|---------|
| | | Chain 0 | Chain 1 |
| 58 | 5290 | 83.24 | 83.37 |
| 106 | 5530 | 83.27 | 82.97 |
| 122 | 5610 | 83.84 | 83.44 |
| 138 | 5690 (For U-NII-2C) | 74.49 | 74.54 |

For CH138 (U-NII-2C Band): The 26dBc bandwidth below 5725MHz = 5725MHz - Marker 1

802.11ax (HE160)

| Chan. | Freq. (MHz) | 26dBc Bandwidth (MHz) | |
|-------|-------------------------|-----------------------|---------|
| | | Chain 0 | Chain 1 |
| 50 | 5250 (U-NII-2A Band) | 88.61 | 87.37 |
| 114 | 5570 | 169.33 | 169.69 |

Spectrum Plot of Worst Value



RU106

802.11ax (HE20)

| Chan. | Freq. (MHz) | 26dBc Bandwidth (MHz) | |
|-------|------------------------|-----------------------|---------|
| | | Chain 0 | Chain 1 |
| 52 | 5260 | 22.38 | 21.63 |
| 60 | 5300 | 22.19 | 21.53 |
| 64 | 5320 | 21.75 | 21.71 |
| 100 | 5500 | 22.65 | 22.05 |
| 116 | 5580 | 22.15 | 21.81 |
| 140 | 5700 | 22.22 | 21.60 |
| 144 | 5720 (For U-NII-2C) | 15.47 | 14.91 |

For CH144 (U-NII-2C Band): The 26dBc bandwidth below 5725MHz = 5725MHz - Marker 1

802.11ax (HE40)

| Chan. | Freq. (MHz) | 26dBc Bandwidth (MHz) | |
|-------|------------------------|-----------------------|---------|
| | | Chain 0 | Chain 1 |
| 54 | 5270 | 42.37 | 41.69 |
| 62 | 5310 | 42.28 | 42.09 |
| 102 | 5510 | 42.34 | 42.17 |
| 110 | 5550 | 41.53 | 42.47 |
| 134 | 5670 | 41.97 | 41.89 |
| 142 | 5710 (For U-NII-2C) | 34.88 | 34.80 |

For CH142 (U-NII-2C Band): The 26dBc bandwidth below 5725MHz = 5725MHz - Marker 1

802.11ax (HE80)

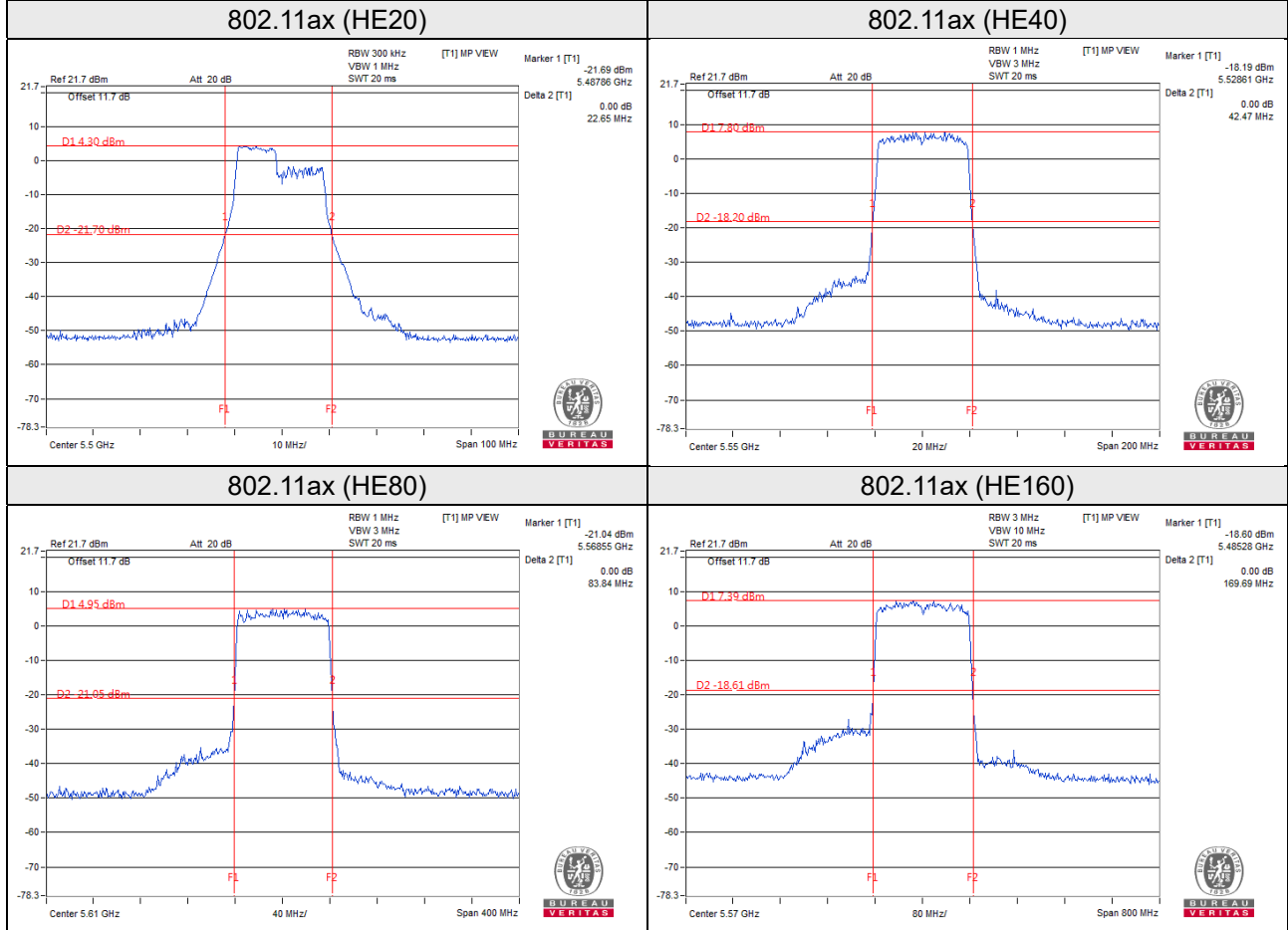
| Chan. | Freq. (MHz) | 26dBc Bandwidth (MHz) | |
|-------|------------------------|-----------------------|---------|
| | | Chain 0 | Chain 1 |
| 58 | 5290 | 83.24 | 83.37 |
| 106 | 5530 | 83.27 | 82.97 |
| 122 | 5610 | 83.84 | 83.44 |
| 138 | 5690 (For U-NII-2C) | 74.49 | 74.54 |

For CH138 (U-NII-2C Band): The 26dBc bandwidth below 5725MHz = 5725MHz - Marker 1

802.11ax (HE160)

| Chan. | Freq. (MHz) | 26dBc Bandwidth (MHz) | |
|-------|-------------------------|-----------------------|---------|
| | | Chain 0 | Chain 1 |
| 50 | 5250 (U-NII-2A Band) | 89.32 | 90.31 |
| 114 | 5570 | 169.33 | 169.69 |

Spectrum Plot of Worst Value



RU242

802.11ax (HE40)

| Chan. | Freq. (MHz) | 26dBc Bandwidth (MHz) | |
|-------|------------------------|-----------------------|---------|
| | | Chain 0 | Chain 1 |
| 54 | 5270 | 42.37 | 41.69 |
| 62 | 5310 | 42.28 | 42.09 |
| 102 | 5510 | 42.34 | 42.17 |
| 110 | 5550 | 41.53 | 42.47 |
| 134 | 5670 | 41.97 | 41.89 |
| 142 | 5710 (For U-NII-2C) | 34.88 | 34.80 |

For CH142 (U-NII-2C Band): The 26dBc bandwidth below 5725MHz = 5725MHz - Marker 1

802.11ax (HE80)

| Chan. | Freq. (MHz) | 26dBc Bandwidth (MHz) | |
|-------|------------------------|-----------------------|---------|
| | | Chain 0 | Chain 1 |
| 58 | 5290 | 83.24 | 83.37 |
| 106 | 5530 | 83.27 | 82.97 |
| 122 | 5610 | 83.84 | 83.44 |
| 138 | 5690 (For U-NII-2C) | 74.49 | 74.54 |

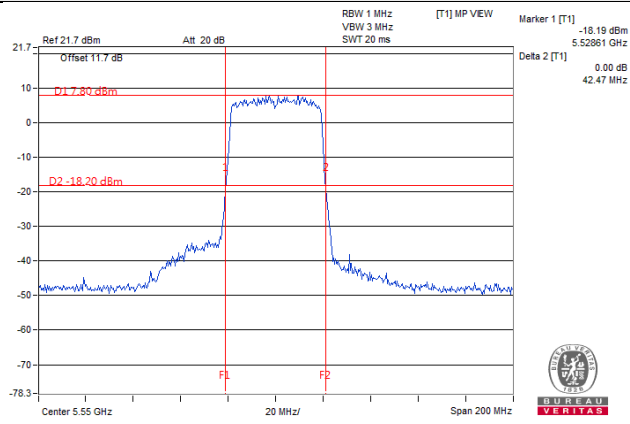
For CH138 (U-NII-2C Band): The 26dBc bandwidth below 5725MHz = 5725MHz - Marker 1

802.11ax (HE160)

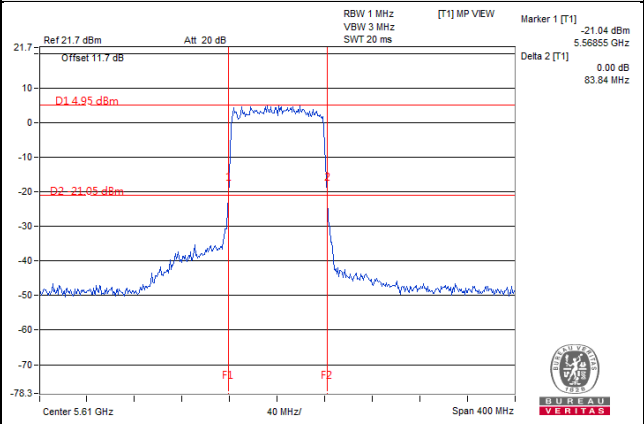
| Chan. | Freq. (MHz) | 26dBc Bandwidth (MHz) | |
|-------|-------------------------|-----------------------|---------|
| | | Chain 0 | Chain 1 |
| 50 | 5250 (U-NII-2A Band) | 89.17 | 89.64 |
| 114 | 5570 | 169.33 | 169.69 |

Spectrum Plot of Worst Value

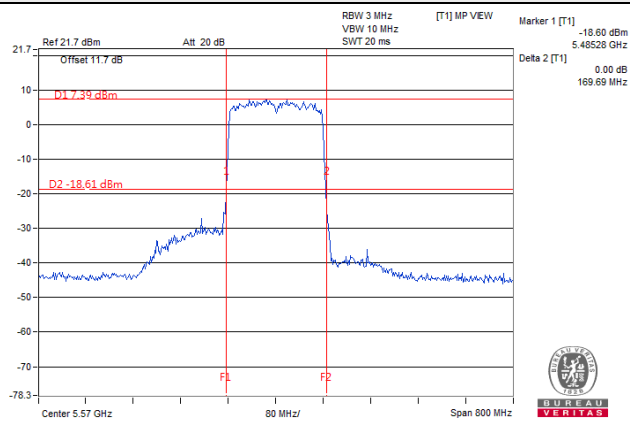
802.11ax (HE40)



802.11ax (HE80)



802.11ax (HE160)



RU484

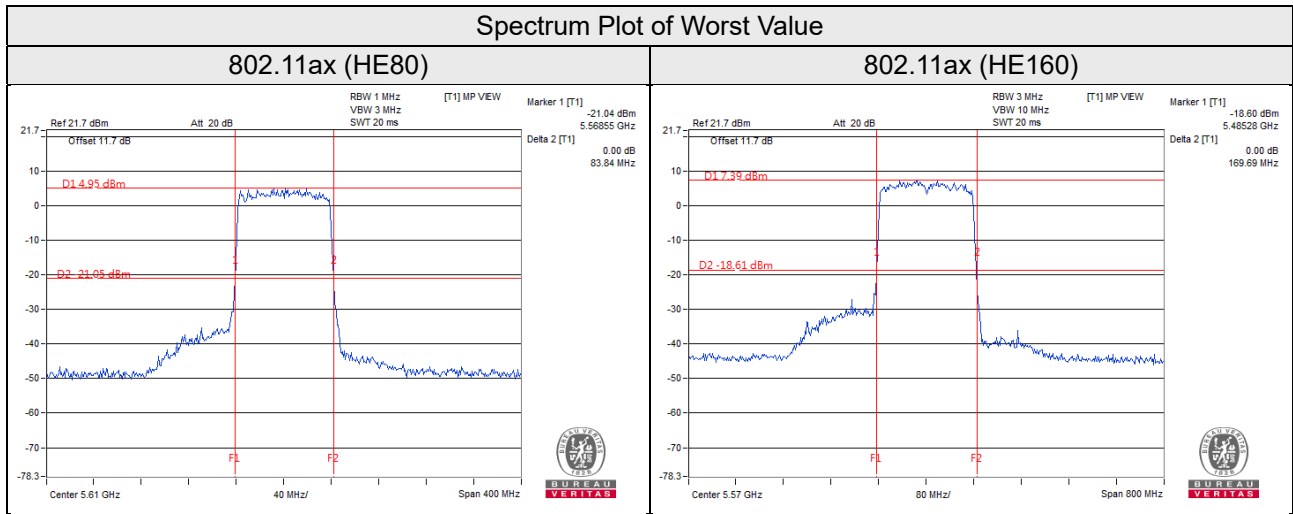
802.11ax (HE80)

| Chan. | Freq. (MHz) | 26dBc Bandwidth (MHz) | |
|-------|------------------------|-----------------------|---------|
| | | Chain 0 | Chain 1 |
| 58 | 5290 | 83.24 | 83.37 |
| 106 | 5530 | 83.27 | 82.97 |
| 122 | 5610 | 83.84 | 83.44 |
| 138 | 5690 (For U-NII-2C) | 74.49 | 74.54 |

For CH138 (U-NII-2C Band): The 26dBc bandwidth below 5725MHz = 5725MHz - Marker 1

802.11ax (HE160)

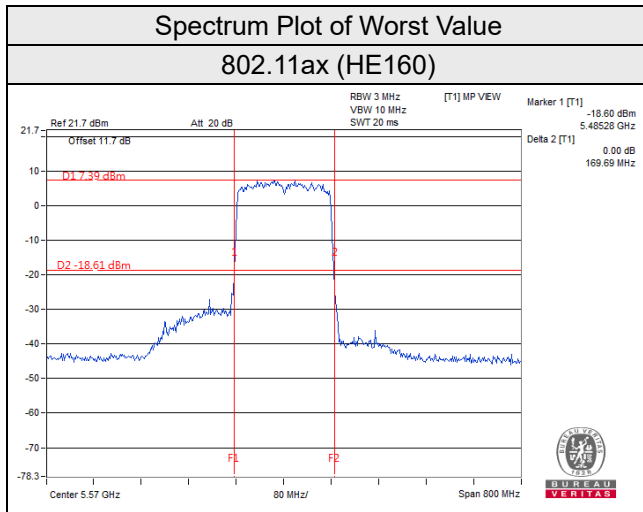
| Chan. | Freq. (MHz) | 26dBc Bandwidth (MHz) | |
|-------|-------------------------|-----------------------|---------|
| | | Chain 0 | Chain 1 |
| 50 | 5250 (U-NII-2A Band) | 89.17 | 89.64 |
| 114 | 5570 | 169.33 | 169.69 |



RU996

802.11ax (HE160)

| Chan. | Freq. (MHz) | 26dBc Bandwidth (MHz) | |
|-------|-------------------------|-----------------------|---------|
| | | Chain 0 | Chain 1 |
| 50 | 5250 (U-NII-2A Band) | 88.15 | 88.11 |
| 114 | 5570 | 169.33 | 169.69 |



EUT Average Power

802.11a

| Frequency Band (MHz) | Max. Power | |
|----------------------|-------------------|--------------------|
| | Output Power (mW) | Output Power (dBm) |
| 5250~5350 | 29.995 | 14.77 |
| 5470~5725 | 30.202 | 14.80 |

802.11n (HT20)

| Frequency Band (MHz) | Max. Power | |
|----------------------|-------------------|--------------------|
| | Output Power (mW) | Output Power (dBm) |
| 5250~5350 | 29.894 | 14.76 |
| 5470~5725 | 30.133 | 14.79 |

802.11n (HT40)

| Frequency Band (MHz) | Max. Power | |
|----------------------|-------------------|--------------------|
| | Output Power (mW) | Output Power (dBm) |
| 5250~5350 | 29.753 | 14.74 |
| 5470~5725 | 30.029 | 14.78 |

802.11ac (VHT20)

| Frequency Band (MHz) | Max. Power | |
|----------------------|-------------------|--------------------|
| | Output Power (mW) | Output Power (dBm) |
| 5250~5350 | 30.068 | 14.78 |
| 5470~5725 | 30.376 | 14.83 |

802.11ac (VHT40)

| Frequency Band (MHz) | Max. Power | |
|----------------------|-------------------|--------------------|
| | Output Power (mW) | Output Power (dBm) |
| 5250~5350 | 29.925 | 14.76 |
| 5470~5725 | 30.098 | 14.79 |

802.11ac (VHT80)

| Frequency Band (MHz) | Max. Power | |
|----------------------|-------------------|--------------------|
| | Output Power (mW) | Output Power (dBm) |
| 5250~5350 | 29.930 | 14.76 |
| 5470~5725 | 30.032 | 14.78 |

802.11ac (VHT160)

| Frequency Band (MHz) | Max. Power | |
|----------------------|-------------------|--------------------|
| | Output Power (mW) | Output Power (dBm) |
| 5250~5350 | 14.775 | 11.70 |
| 5470~5725 | 30.588 | 14.86 |

802.11ax (HE20)

| Frequency Band (MHz) | Max. Power | |
|----------------------|-------------------|--------------------|
| | Output Power (mW) | Output Power (dBm) |
| 5250~5350 | 30.242 | 14.81 |
| 5470~5725 | 30.517 | 14.85 |

802.11ax (HE40)

| Frequency Band (MHz) | Max. Power | |
|----------------------|-------------------|--------------------|
| | Output Power (mW) | Output Power (dBm) |
| 5250~5350 | 30.167 | 14.80 |
| 5470~5725 | 30.307 | 14.82 |

802.11ax (HE80)

| Frequency Band (MHz) | Max. Power | |
|----------------------|-------------------|--------------------|
| | Output Power (mW) | Output Power (dBm) |
| 5250~5350 | 30.834 | 14.89 |
| 5470~5725 | 30.622 | 14.86 |

802.11ax (HE160)

| Frequency Band (MHz) | Max. Power | |
|----------------------|-------------------|--------------------|
| | Output Power (mW) | Output Power (dBm) |
| 5250~5350 | 14.946 | 11.75 |
| 5470~5725 | 30.729 | 14.88 |

5 Pictures of Test Arrangements

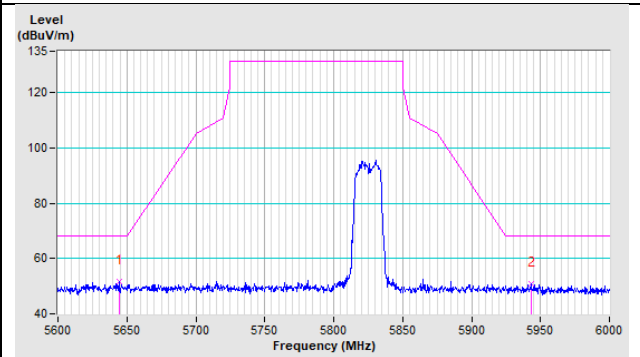
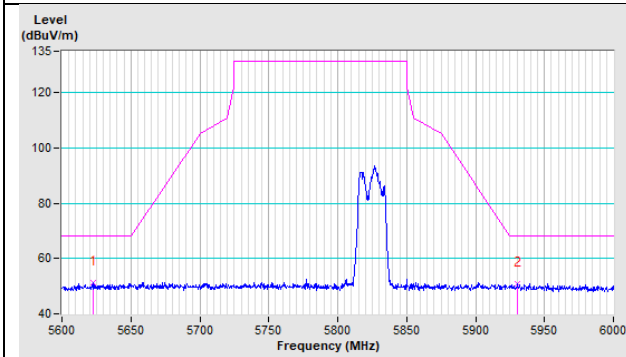
Please refer to the attached file (Test Setup Photo).

Annex A - Radiated Out of Band Emission (OOBE) Measurement (For U-NII-3 band)

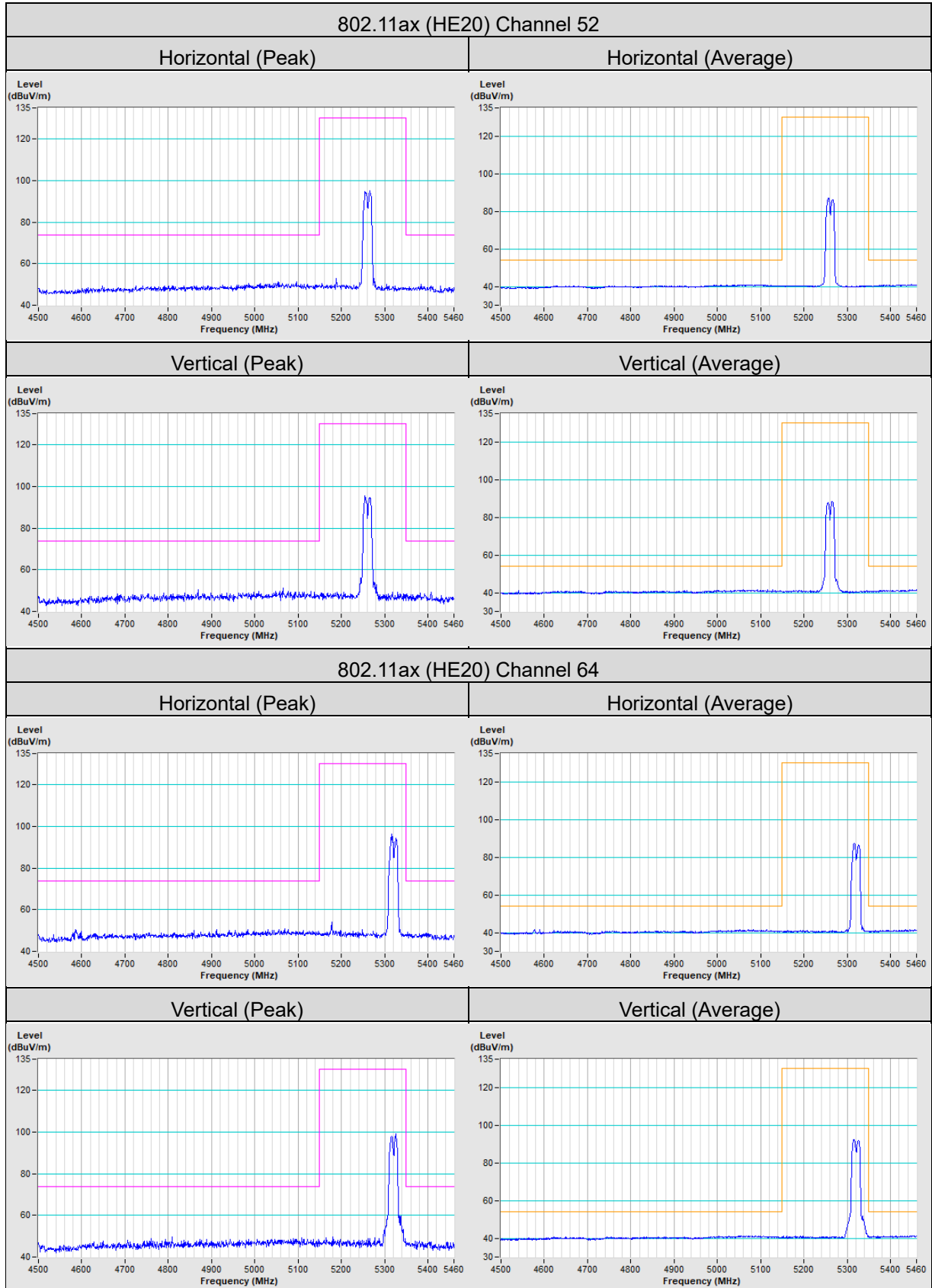
802.11ax (HE20) CH 165 : 5825 MHz

Horizontal

Vertical



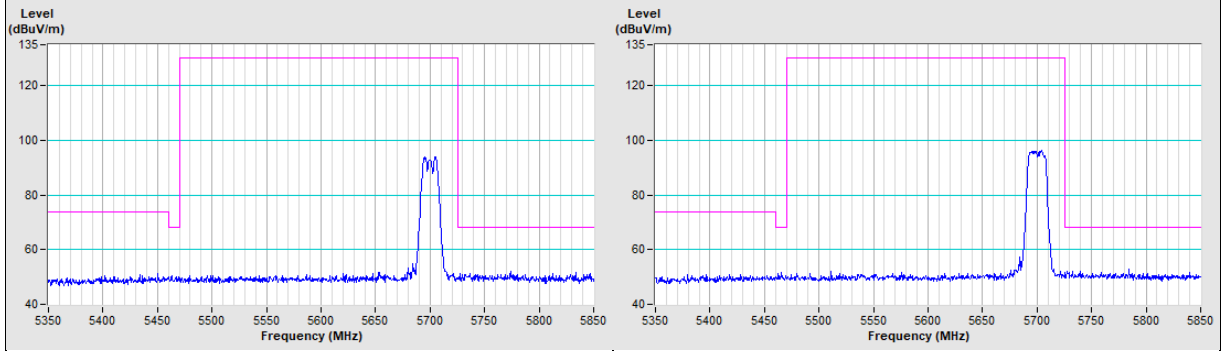
Annex B - Band Edge Measurement



802.11ax (HE20) Channel 140

Horizontal (Peak)

Vertical (Peak)



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 and approved according to ISO/IEC 17025.

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

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Email: service.adt@tw.bureauveritas.com

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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