

RF TEST REPORT

For

Ningbo Evinom Tech Co.,Ltd
Product Name: Smart wifi thermostat
Test Model(s): BRST(US)

Report Reference No. : DACE250528017RL001

FCC ID : 2BP4E-BRST

Applicant's Name : Ningbo Evinom Tech Co.,Ltd

Address . No.3 Tongji Road, Simen Industrial Zone, Yuyao City, NingboCity,

Zhejiang Province. P.R. China

Testing Laboratory : Shenzhen DACE Testing Technology Co., Ltd.

102, Building H1, & 1/F., Building H, Hongfa Science & Technology Park,

Address : Tangtou Community, Shiyan Subdistrict, Bao'an District, Shenzhen,

Guangdong, China

Test Specification Standard : 47 CFR Part 15.247

Date of Receipt : May 28, 2025

Date of Test : May 28, 2025 to June 7, 2025

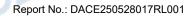
Data of Issue : June 7, 2025

Result : Pass

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Apply for company information

| Applicant's Name | : | Ningbo Evinom Tech Co.,Ltd |
|--------------------------------|---|--|
| Address | : | No.3 Tongji Road, Simen Industrial Zone, Yuyao City, NingboCity, Zhejiang Province. P.R. China |
| Product Name | : | Smart wifi thermostat |
| Test Model(s) | : | BRST(US) |
| Series Model(s) | • | BR |
| Test Specification Standard(s) | : | 47 CFR Part 15.247 |

NOTE1:

The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards.

| Compiled by: | Supervised by: | Approved by: |
|-----------------------------|-----------------------------|-------------------------|
| Keren Huang | Sen Tang | Machael Mrs |
| Keren Huang / Test Engineer | Ben Tang / Project Engineer | Machael Mo / Manager |
| June 7, 2025 | June 7, 2025 | June 7, 2025 |

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Report No.: DACE250528017RL001

Revision History Of Report

| Version Description | | n Description REPORT No. | |
|---------------------|----------|--------------------------|--------------|
| V1.0 | Original | DACE250528017RL001 | June 7, 2025 |
| | 1 | | |
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V1.0

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1 TEST SUMMARY

1.1 Test Standards

The tests were performed according to following standards:

47 CFR Part 15.247: Operation within the bands 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz

1.2 Summary of Test Result

| Item | Standard | Method | Requirement | Result |
|--|-----------------------|---|-------------------------------------|--------|
| Antenna requirement | 47 CFR Part 15.247 | | 47 CFR 15.203 | Pass |
| Conducted Emission at AC power line | 47 CFR Part 15.247 | ANSI C63.10-2020 section 6.2 | 47 CFR 15.207(a) | Pass |
| 6dB Bandwidth | 47 CFR Part 15.247 | ANSI C63.10-2020, section 11.8 KDB 558074 D01 15.247 Meas Guidance v05r02 | 47 CFR 15.247(a)(2) | Pass |
| Maximum Conducted Output Power | 47 CFR Part 15.247 | ANSI C63.10-2020 section 11.9.1 KDB 558074 D01 15.247 Meas Guidance v05r02 | 47 CFR 15.247(b)(3) | Pass |
| Power Spectral Density | 47 CFR Part 15.247 | ANSI C63.10-2020, section 11.10 KDB 558074 D01 15.247 Meas Guidance v05r02 | 47 CFR 15.247(e) | Pass |
| Emissions in non-restricted frequency bands | 47 CFR Part 15.247 | ANSI C63.10-2020 section 11.11 KDB 558074 D01 15.247 Meas Guidance v05r02 | 47 CFR 15.247(d), 15.209, 15.205 | Pass |
| Band edge emissions (Radiated) | 47 CFR Part 15.247 | ANSI C63.10-2020 section 6.10 KDB 558074 D01 15.247 Meas Guidance v05r02 | 47 CFR 15.247(d), 15.209, 15.205 | Pass |
| Emissions in frequency bands (below 1GHz) | 47 CFR Part 15.247 | ANSI C63.10-2020 section 6.6.4 KDB 558074 D01 15.247 Meas Guidance v05r02 | 47 CFR 15.247(d), 15.209, 15.205 | Pass |
| Emissions in frequency bands (above 1GHz) | 47 CFR Part 15.247 | ANSI C63.10-2020 section 6.6.4 KDB 558074 D01 15.247 Meas Guidance v05r02 | 47 CFR 15.247(d), 15.209, 15.205 | Pass |

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GENERAL INFORMATION

2.1 Client Information

Applicant's Name Ningbo Evinom Tech Co.,Ltd

Address No.3 Tongji Road, Simen Industrial Zone, Yuyao City, NingboCity, Zhejiang

Province. P.R. China

Ningbo Evinom Tech Co.,Ltd Manufacture

No.3 Tongji Road, Simen Industrial Zone, Yuyao City, NingboCity, Zhejiang **Address**

Province. P.R. China

Description of Device (EUT)

| Product Name: | Smart wifi thermostat |
|-----------------------|--|
| Model/Type reference: | BRST(US) |
| Series Model: | BR |
| Model Difference: | The product has many models, only the model name and color is different, and the other parts such as the circuit principle, pcb and electrical structure are the same. |
| Trade Mark: | N/A |
| Power Supply: | AC120V60Hz |
| Operation Frequency: | 802.11b/g/n(HT20): 2412MHz to 2462MHz; |
| Number of Channels: | 802.11b/g/n(HT20): 11 Channels; |
| Modulation Type: | 802.11b: DSSS(CCK, DQPSK, DBPSK); 802.11g: OFDM(BPSK, QPSK, 16QAM, 64QAM); 802.11n(HT20): OFDM (BPSK, QPSK, 16QAM, 64QAM) |
| Antenna Type: | PCB |
| Antenna Gain: | 2.54dBi |
| Hardware Version: | V1.0 |
| Software Version: | V1.0 |

Remark: The Antenna Gain is supplied by the customer. DACE is not responsible for this data and the related calculations associated with it

| Operation Frequency each of channel | | | | | | | V |
|-------------------------------------|-----------|---------|-----------|---------|-----------|---------|-----------|
| Channel | Frequency | Channel | Frequency | Channel | Frequency | Channel | Frequency |
| 1 | 2412MHz | 4 | 2427MHz | 7 | 2442MHz | 10 | 2457MHz |
| 2 | 2417MHz | 5 | 2432MHz | 8 | 2447MHz | 11 | 2462MHz |
| 3 | 2422MHz | 6 | 2437MHz | 9 | 2452MHz | | |

In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

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| Toot channel | Frequency (MHz) |
|-----------------|-------------------------------|
| Test channel | 802.11b/802.11g/802.11n(HT20) |
| Lowest channel | 2412MHz |
| Middle channel | 2437MHz |
| Highest channel | 2462MHz |

2.3 Description of Test Modes

| No | Title | Description | 6 |
|-----|--------------------|--|---|
| TM1 | 802.11b mode | Keep the EUT in 802.11b transmitting mode. | |
| TM2 | 802.11g mode | Keep the EUT in 802.11g transmitting mode. | |
| TM3 | 802.11n(HT20) mode | Keep the EUT in 802.11n(HT20) transmitting mode. | |

Description of Support Units

The EUT was tested as an independent device.

2.5 Equipments Used During The Test

| Conducted Emission at AC power line | | | | | | |
|-------------------------------------|--------------------|--|----------------------------|------------|--------------|--|
| Equipment | Manufacturer | Model No | Inventory No | Cal Date | Cal Due Date | |
| Power absorbing clamp | SCHWARZ BECK | MESS- ELEKTRONIK | 1 | 2025-04-23 | 2026-04-22 | |
| Electric Network | SCHWARZ BECK | CAT5 8158 | CAT5 8158#207 | 2025-04-18 | 2026-04-17 | |
| Cable | SCHWARZ BECK | Die | 1 | 2025-04-18 | 2026-04-17 | |
| Pulse Limiter | SCHWARZ BECK | VTSD 9561-F Pulse limiter 10dB Attenuation | 561-G071 | 2024-12-06 | 2025-12-05 | |
| 50ΩCoaxial Switch | Anritsu | MP59B | M20531 | 1 | / | |
| Test Receiver | Rohde & Schwarz | ESPI TEST RECEIVER | 1164.6607K03 -102109-MH | 2025-04-25 | 2026-04-24 | |
| L.I.S.N | R&S | ESH3-Z5 | 831.5518.52 | 2025-04-18 | 2026-04-17 | |
| L.I.S.N | SCHWARZ BECK | NSLK 8126 | 05055 | 2025-04-18 | 2026-04-17 | |
| Pulse Limiter | CYBERTEK | EM5010A | 10 | 2024-09-27 | 2025-09-26 | |
| EMI test software | EZ -EMC | EZ | V1.1.42 | 1 | 1 | |

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| Equipment | Manufacturer | Model No | Inventory No | Cal Date | Cal Due Date |
|-------------------------------------|--|----------|--------------|------------|--------------|
| RF Test Software | Tachoy Information Technology(she nzhen) Co.,Ltd. | RTS-01 | V1.0.0 | D) | / |
| Power divider | MIDEWEST | PWD-2533 | SMA-79 | 2025-04-18 | 2026-05-10 |
| RF Sensor Unit | Tachoy Information Technology(she nzhen) Co.,Ltd. | TR1029-2 | 000001 | / | DAG |
| Wideband radio communication tester | R&S | CMW500 | 113410 | 2025-04-25 | 2026-04-24 |
| Vector Signal Generator | Keysight | N5181A | MY50143455 | 2024-12-06 | 2025-12-05 |
| Signal Generator | Keysight | N5182A | MY48180415 | 2024-12-06 | 2025-12-05 |
| Spectrum Analyzer | Keysight | N9020A | MY53420323 | 2024-12-06 | 2025-12-05 |

| Equipment | Manufacturer | Model No | Inventory No | Cal Date | Cal Due Date |
|-------------------------------------|-------------------|------------------|----------------------------|------------|--------------|
| EMI Test software | Farad EZ -EMC | | V1.1.42 | 1 | / |
| Positioning Controller | MF | MF-7802 | , | 1 | / |
| Amplifier(18-40G) | COM-POWER | AH-1840 | 10100008-1 | 2024-04-26 | 2027-04-25 |
| Horn antenna | COM-POWER | AH-1840 (18-40G) | 10100008 | 2024-04-26 | 2027-04-25 |
| Loop antenna | ZHINAN | ZN30900C | ZN30900C | 2025-04-28 | 2026-04-27 |
| Cable(LF)#2 | Schwarzbeck | 1 | / | 2024-12-19 | 2025-12-18 |
| Cable(LF)#1 | Schwarzbeck | 1 | / | 2024-12-19 | 2025-12-18 |
| Cable(HF)#2 | Schwarzbeck | AK9515E | 96250 | 2025-04-25 | 2026-04-24 |
| Cable(HF)#1 | Schwarzbeck | SYV-50-3-1 | <u> </u> | 2025-04-25 | 2026-04-24 |
| Power amplifier(LF) | Schwarzbeck | BBV9743 | 9743-151 | 2025-04-29 | 2026-04-28 |
| Power amplifier(HF) | Schwarzbeck | BBV9718 | 9718-282 | 2025-04-29 | 2026-04-28 |
| Wideband radio communication tester | R&S | CMW500 | 113410 | 2025-04-25 | 2026-04-24 |
| Spectrum Analyzer | R&S | R&S FSP30 | | 2025-04-18 | 2026-04-17 |
| Test Receiver | Test Receiver R&S | | 1166.5950K03 -101431-Jq | 2025-04-18 | 2026-04-17 |
| Horn Antenna | Sunol Sciences | DRH-118 | A091114 | 2025-04-21 | 2026-04-20 |
| Broadband Antenna | Sunol Sciences | JB6 Antenna | A090414 | 2024-09-28 | 2026-09-27 |
| | | | | | |

2.6 Statement Of The Measurement Uncertainty

| Test Item | | Measurement Uncertainty |
|---|---|-------------------------|
| Conducted Disturbance (0.15~30MHz) | V | ±3.41dB |
| Occupied Bandwidth | | ±3.63% |
| RF conducted power | | ±0.733dB |
| RF power density | | ±0.234% |
| Conducted Spurious emissions | | ±1.98dB |
| Radiated Emission (Above 1GHz) | J | ±5.46dB |
| Radiated Emission (Below 1GHz) | | ±5.79dB |
|) / // - // - // - // - // - // - // - | | 1 1 1 1 0 0 0 0 0 |

Note: (1) This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

2.7 Identification of Testing Laboratory

| Company Name: | Shenzhen DACE Testing Technology Co., Ltd. |
|---------------|--|
| Address: | 101-102 Building H5 & 1/F., Building H, Hongfa Science & Technology Park, Tangtou, Shiyan, Bao'an District, Shenzhen, Guangdong, China |
| Phone Number: | +86-13267178997 |
| Fax Number: | 86-755-29113252 |

Identification of the Responsible Testing Location

| Company Name: | Shenzhen DACE Testing Technology Co., Ltd. |
|--------------------------------|--|
| Address: | 101-102 Building H5 & 1/F., Building H, Hongfa Science & Technology Park, Tangtou, Shiyan, Bao'an District, Shenzhen, Guangdong, China |
| Phone Number: | +86-13267178997 |
| Fax Number: | 86-755-29113252 |
| Designation Number: | CN1342 |
| Test Firm Registration Number: | 778666 |
| A2LA Certificate Number: | 6270.01 |

2.8 Announcement

- (1) The test report reference to the report template version v0.
- (2) The test report is invalid if not marked with the signatures of the persons responsible for preparing, reviewing and approving the test report.
- (3) The test report is invalid if there is any evidence and/or falsification.
- (4) This document may not be altered or revised in any way unless done so by DACE and all revisions are duly noted in the revisions section.
- (5) Content of the test report, in part or in full, cannot be used for publicity and/or promotional purposes without prior written approval from the laboratory.
- (6) The laboratory is only responsible for the data released by the laboratory, except for the part provided by the applicant.

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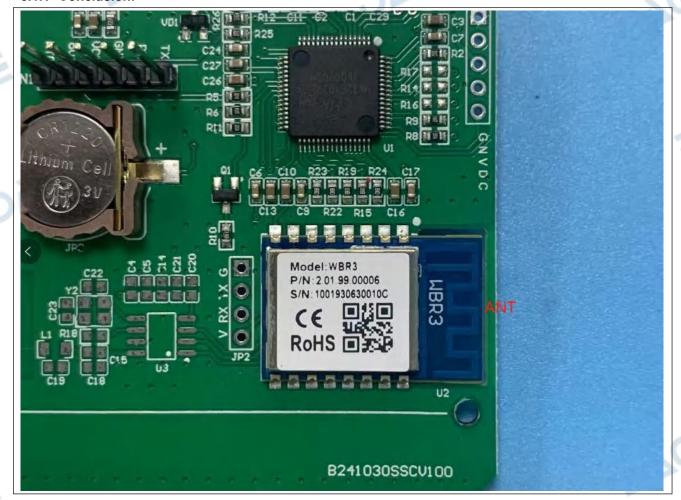
3 Evaluation Results (Evaluation)

3.1 Antenna requirement

Test Requirement:

Refer to 47 CFR Part 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section.

3.1.1 Conclusion:



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4 Radio Spectrum Matter Test Results (RF)

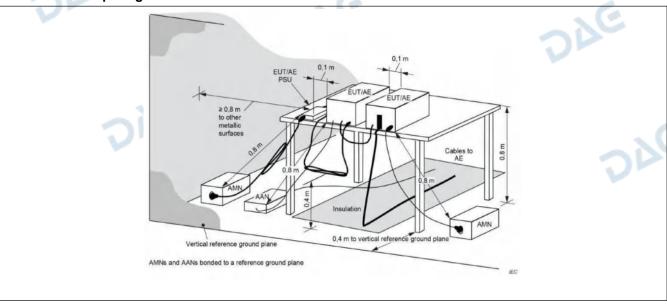
4.1 Conducted Emission at AC power line

| Test Requirement: | Refer to 47 CFR 15.207(a), Except as shown in paragraphs (b)and (c)of this section, for an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies, within the band 150 kHz to 30 MHz, shall not exceed the limits in the following table, as measured using a 50 µH/50 ohms line impedance stabilization network (LISN). | | | | | | | | |
|-------------------|--|------------|-----------|--|--|--|--|--|--|
| Test Limit: | Frequency of emission (MHz) Conducted limit (dBµV) | | | | | | | | |
| | | Quasi-peak | Average | | | | | | |
| | 0.15-0.5 | 66 to 56* | 56 to 46* | | | | | | |
| | 0.5-5 | 56 | 46 | | | | | | |
| | 5-30 | 60 | 50 | | | | | | |
| \ | *Decreases with the logarithm of the | frequency. | <u> </u> | | | | | | |
| Test Method: | ANSI C63.10-2020 section 6.2 | V | 4 | | | | | | |
| Procedure: | Refer to ANSI C63.10-2020 section 6.2, standard test method for ac power-line conducted emissions from unlicensed wireless devices | | | | | | | | |

4.1.1 E.U.T. Operation:

| Operating Environment: | | | | | | | | | |
|------------------------|---------|-----|-----------|------|-------------------------------|--|--|--|--|
| Temperature: | 22.8 °C | | Humidity: | 53 % | Atmospheric Pressure: 101 kPa | | | | |
| Pretest mode: | | TM1 | | | | | | | |
| Final test mode: | | TM1 | | | | | | | |

4.1.2 Test Setup Diagram:



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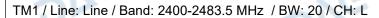
Tel: +86-755-23010613

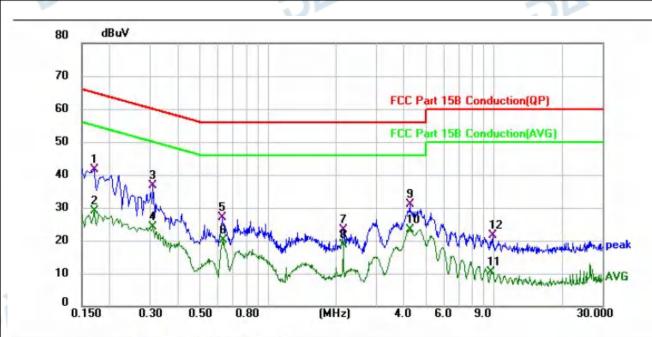
E-mail: service@dace-lab.com

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4.1.3 Test Data:





| No. Mk. | Freq. | Reading Level | Correct Factor | Measure- ment | Limit | Over | | |
|---------|--------|------------------|-------------------|------------------|-------|--------|----------|---------|
| | MHz | dBuV | dB | dBuV | dBuV | dB | Detector | Comment |
| 1 | 0.1700 | 31.53 | 10.10 | 41.63 | 64.96 | -23.33 | QP | |
| 2 | 0.1700 | 18.93 | 10.10 | 29.03 | 54.96 | -25.93 | AVG | |
| 3 | 0.3100 | 26.49 | 10.09 | 36.58 | 59.97 | -23.39 | QP | |
| 4 | 0.3100 | 13.96 | 10.09 | 24.05 | 49.97 | -25.92 | AVG | |
| 5 | 0.6260 | 16.86 | 10.07 | 26.93 | 56.00 | -29.07 | QP | |
| 6 | 0.6300 | 10.01 | 10.07 | 20.08 | 46.00 | -25.92 | AVG | |
| 7 | 2.1500 | 13.40 | 10.01 | 23.41 | 56.00 | -32.59 | QP | |
| 8 | 2.1500 | 8.58 | 10.01 | 18.59 | 46.00 | -27.41 | AVG | |
| 9 | 4.2300 | 20.85 | 10.17 | 31.02 | 56.00 | -24.98 | QP | |
| 10 * | 4.2300 | 13.08 | 10.17 | 23.25 | 46.00 | -22.75 | AVG | |
| 11 | 9.7220 | 0.19 | 10.32 | 10.51 | 50.00 | -39.49 | AVG | |
| 12 | 9.8420 | 11.23 | 10.33 | 21.56 | 60.00 | -38.44 | QP | |
| | | | | | | | | |

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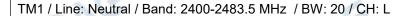
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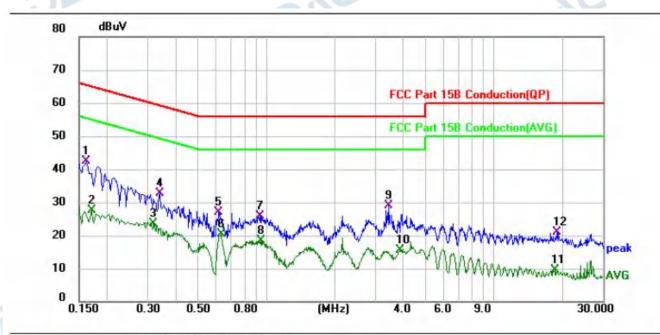
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| No. | Mk. | Freq. | Reading Level | Correct Factor | Measure- ment | Limit | Over | | |
|-----|-----|---------|------------------|-------------------|------------------|-------|--------|----------|---------|
| | | MHz | dBuV | dB | dBuV | dBuV | dB | Detector | Comment |
| 1 | * | 0.1620 | 32.29 | 10.12 | 42.41 | 65.36 | -22.95 | QP | |
| 2 | | 0.1700 | 17.52 | 10.12 | 27.64 | 54.96 | -27.32 | AVG | |
| 3 | | 0.3180 | 13.34 | 10.10 | 23.44 | 49.76 | -26.32 | AVG | |
| 4 | | 0.3379 | 22.68 | 10.10 | 32.78 | 59.25 | -26.47 | QP | |
| 5 | | 0.6180 | 17.03 | 10.08 | 27.11 | 56.00 | -28.89 | QP | |
| 6 | | 0.6300 | 10.33 | 10.09 | 20.42 | 46.00 | -25.58 | AVG | |
| 7 | | 0.9380 | 15.87 | 10.10 | 25.97 | 56.00 | -30.03 | QP | |
| 8 | | 0.9500 | 8.27 | 10.10 | 18.37 | 46.00 | -27.63 | AVG | |
| 9 | | 3.4540 | 18.89 | 10.11 | 29.00 | 56.00 | -27.00 | QP | |
| 10 | | 3.8660 | 5.32 | 10.14 | 15.46 | 46.00 | -30.54 | AVG | |
| 11 | | 18.4460 | -1.01 | 10.55 | 9.54 | 50.00 | -40.46 | AVG | |
| 12 | | 18.9060 | 10.56 | 10.56 | 21.12 | 60.00 | -38.88 | QP | |

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4.2 6dB Bandwidth

| Test Requirement: | 47 CFR 15.247(a)(2) |
|-------------------|---|
| Test Limit: | Refer to 47 CFR 15.247(a)(2), Systems using digital modulation techniques may operate in the 902-928 MHz, and 2400-2483.5 MHz bands. The minimum 6 dB bandwidth shall be at least 500 kHz. |
| Test Method: | ANSI C63.10-2020, section 11.8 KDB 558074 D01 15.247 Meas Guidance v05r02 |
| Procedure: | 11.8.1 Option 1 The steps for the first option are as follows: a) Set RBW = shall be in the range of 1% to 5% of the OBW but not less than 100 kHz. b) Set the VBW ≥ [3 × RBW]. c) Detector = peak. d) Trace mode = max-hold. e) Sweep = No faster than coupled (auto) time. f) Allow the trace to stabilize. g) Measure the maximum width of the emission by placing two markers, one at the lowest frequency and the other at the highest frequency of the envelope of the spectral display, such that each marker is at or slightly below the "-6 dB down amplitude". If a marker is below this "-6 dB down amplitude" value, then it shall be as close as possible to this value. |
| DAG | 11.8.2 Option 2 The automatic bandwidth measurement capability of an instrument may be employed using the X dB bandwidth mode with X set to 6 dB, if the functionality described in 11.8.1 (i.e., RBW = 100 kHz, VBW ≥ 3 × RBW, and peak detector with maximum hold) is implemented by the instrumentation function. When using this capability, care shall be taken so that the bandwidth measurement is not influenced by any intermediate power nulls in the fundamental emission that might be ≥ 6 dB. |

Report No.: DACE250528017RL001

4.2.1 E.U.T. Operation:

| Operating Environment: | | | | | | | | |
|------------------------|----|------|-----------|------|-----|---------------------|---------|--|
| Temperature: 22.8 °C | | | Humidity: | 53 % | Atn | nospheric Pressure: | 101 kPa | |
| Pretest mode: | | TM1, | TM2, TM3 | | | | | |
| Final test mode: | 10 | TM1, | TM2, TM3 | | | C | | |

4.2.2 Test Setup Diagram:

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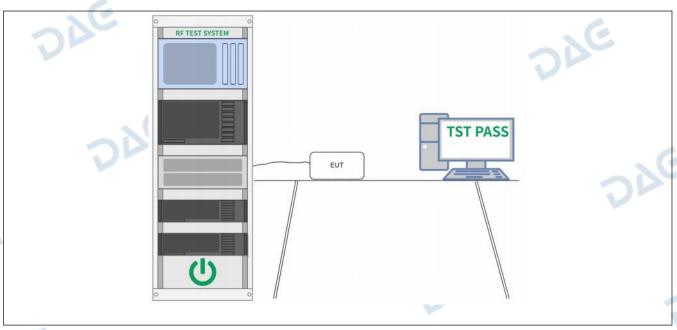
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DAG

4.2.3 Test Data:

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4.3 Maximum Conducted Output Power

| | addica Galpat i Gwoi |
|-------------------|--|
| Test Requirement: | 47 CFR 15.247(b)(3) |
| Test Limit: | Refer to 47 CFR 15.247(b)(3), For systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: 1 Watt. As an alternative to a peak power measurement, compliance with the one Watt limit can be based on a measurement of the maximum conducted output power. Maximum Conducted Output Power is defined as the total transmit power delivered to all antennas and antenna elements averaged across all symbols in the signaling alphabet when the transmitter is operating at its maximum power control level. Power must be summed across all antennas and antenna elements. The average must not include any time intervals during which the transmitter is off or is transmitting at a reduced power level. If multiple modes of operation are possible (e.g., alternative modulation methods), the maximum conducted output power is the highest total transmit power occurring in any mode. |
| Test Method: | ANSI C63.10-2020 section 11.9.1 KDB 558074 D01 15.247 Meas Guidance v05r02 |
| Procedure: | ANSI C63.10-2020, section 11.9.1 Maximum peak conducted output power Note: Per ANSI C63.10-2013, if there are two or more antnnas, the conducted powers at Core 0, Core 1,, Core i were first measured separately, as shown in the section above(this product olny have one antenna). The measured values were then summed in linear power units then converted back to dBm. Per ANSI C63.10-2013 Section 14.4.3.2.3, the directional gain is calculated using the following formula, where GN is the gain of the nth antenna and NANT, the total number of antennas used. For correlated unequal antenna gain Directional gain = 10*log[(10G1/20 + 10G2/20 + + 10GN/20)2 / NANT] dBi For completely uncorrelated unequal antenna gain Directional gain = 10*log[(10G1/10 + 10G2/10 + + 10GN/10)/ NANT] dBi Sample Multiple antennas Calculation: Core 0 + Core 1 +Core i. = MIMO/CDD (i is the number of antennas) (#VALUE! mW + mW) = #VALUE! mW = dBm Sample e.i.r.p. Calculation: e.i.r.p. (dBm) = Conducted Power (dBm) + Ant gain (dBi) |

Report No.: DACE250528017RL001

4.3.1 E.U.T. Operation:

| Operating Environment: | | | | | | | | |
|------------------------|---------|------|-----------|------|---|-----------------------|---------|------|
| Temperature: | 22.8 °C | | Humidity: | 53 % | - | Atmospheric Pressure: | 101 kPa | - 2/ |
| Pretest mode: | | TM1, | TM2, TM3 | | | | | U |
| Final test mode: | | TM1, | TM2, TM3 | | | | | |

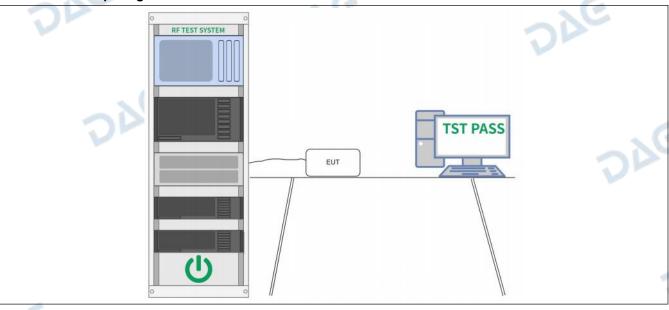
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4.3.2 Test Setup Diagram:



4.3.3 Test Data:

DAG

DAG

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DAG



4.4 Power Spectral Density

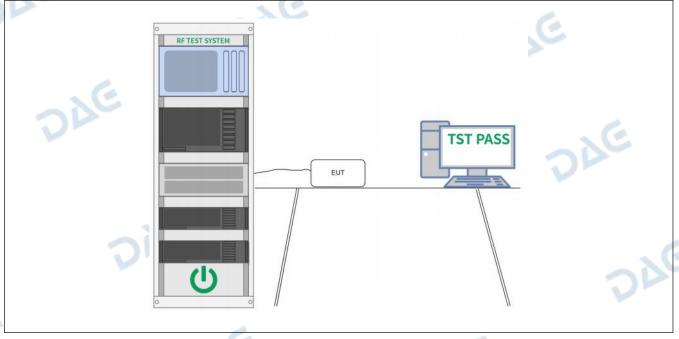
V1.0

| Test Requirement: | 47 CFR 15.247(e) |
|-------------------|---|
| Test Limit: | Refer to 47 CFR 15.247(e), For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission. This power spectral density shall be determined in accordance with the provisions of paragraph (b) of this section. The same method of determining the conducted output power shall be used to determine the power spectral density. |
| Test Method: | ANSI C63.10-2020, section 11.10 KDB 558074 D01 15.247 Meas Guidance v05r02 |
| Procedure: | ANSI C63.10-2020, section 11.10, Maximum power spectral density level in the fundamental emission |

4.4.1 E.U.T. Operation:

| Operating Environment: | | | | | | | | | | |
|------------------------|---------|----------|-----------|------|-----------------------|---------|--|--|--|--|
| Temperature: | 22.8 °C | | Humidity: | 53 % | Atmospheric Pressure: | 101 kPa | | | | |
| Pretest mode: | TM1, | TM2, TM3 | | V | • | | | | | |
| Final test mode: | | | TM2, TM3 | | | | | | | |

4.4.2 Test Setup Diagram:



4.4.3 Test Data:

Please Refer to Appendix for Details.

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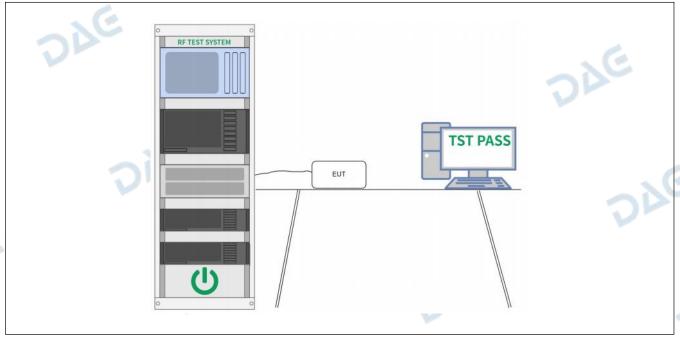
4.5 Emissions in non-restricted frequency bands

| Test Requirement: | 47 CFR 15.247(d), 15.209, 15.205 |
|-------------------|---|
| Test Limit: | Refer to 47 CFR 15.247(d), In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in § 15.209(a) is not required. |
| Test Method: | ANSI C63.10-2020 section 11.11 KDB 558074 D01 15.247 Meas Guidance v05r02 |
| Procedure: | ANSI C63.10-2020 Section 11.11.1, Section 11.11.2, Section 11.11.3 |

4.5.1 E.U.T. Operation:

| Operating Envir | Operating Environment: | | | | | | | | | | |
|--------------------------------|-----------------------------|--|-----------|------|-----------------------|---------|--|--|--|--|--|
| Temperature: | perature: 22.8 °C | | Humidity: | 53 % | Atmospheric Pressure: | 101 kPa | | | | | |
| Pretest mode: | Pretest mode: TM1, TM2, TM3 | | | | | Co | | | | | |
| Final test mode: TM1, TM2, TM3 | | | | | | | | | | | |

4.5.2 Test Setup Diagram:



4.5.3 Test Data:

Please Refer to Appendix for Details.

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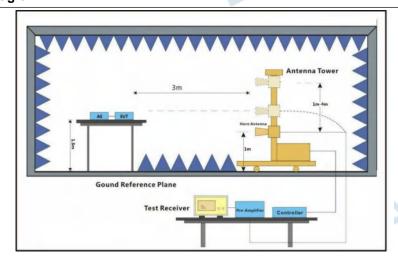
4.6 Band edge emissions (Radiated)

| Test Requirement: | restricted bands, as define |), In addition, radiated emissions w d in § 15.205(a), must also comply § 15.209(a)(see § 15.205(c)).` | | |
|-------------------|--|---|--|--|
| Test Limit: | Frequency (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 | |
| 1 | Above 960 | 500 | 3 | |
| DE . | radiators operating under 54-72 MHz, 76-88 MHz, 1 these frequency bands is and 15.241. In the emission table above The emission limits shown employing a CISPR quasi-110–490 kHz and above 1 | aragraph (g), fundamental emission this section shall not be located in the factor of | the frequency bands ever, operation within his part, e.g., §§ 15.231 and edges. heasurements ency bands 9–90 kHz, in these three bands | |
| Test Method: | ANSI C63.10-2020 section KDB 558074 D01 15.247 | | | |
| Procedure: | ANSI C63.10-2020 section | 6.10.5.2 | 1C | |

4.6.1 E.U.T. Operation:

| Operating Environment: | | | | | | | | | | |
|------------------------|------------------|--|-----------|------|-----------------------|---------|--|--|--|--|
| Temperature: | erature: 22.8 °C | | Humidity: | 53 % | Atmospheric Pressure: | 101 kPa | | | | |
| Pretest mode: | Pretest mode: TM | | | | . 6 | | | | | |
| Final test mode: TM1 | | | TM2, TM3 | | | / | | | | |

4.6.2 Test Setup Diagram:



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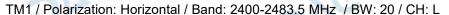
Tel: +86-755-23010613

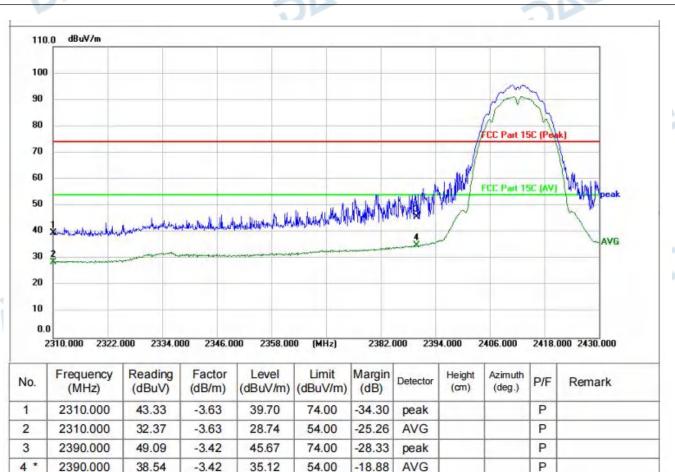
E-mail: service@dace-lab.com

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4.6.3 Test Data:



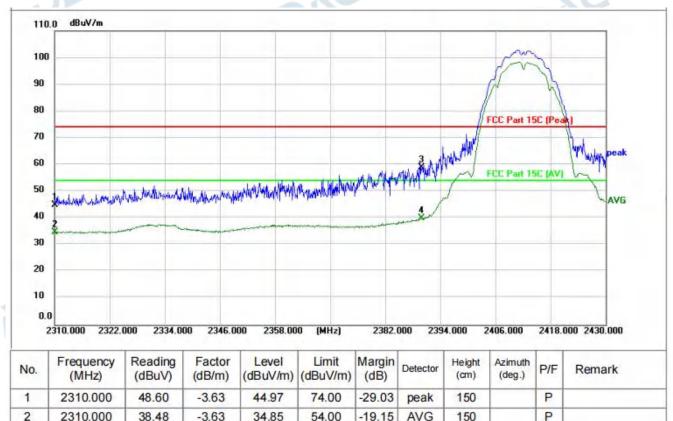


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TM1 / Polarization: Vertical / Band: 2400-2483.5 MHz / BW: 20 / CH: L



| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Azimuth (deg.) | P/F | Remark |
|-----|--------------------|-------------------|------------------|-------------------|-------------------|----------------|----------|-------------|----------------|-----|--------|
| 1 | 2310.000 | 48.60 | -3.63 | 44.97 | 74.00 | -29.03 | peak | 150 | | Р | |
| 2 | 2310.000 | 38.48 | -3.63 | 34.85 | 54.00 | -19.15 | AVG | 150 | | Р | |
| 3 | 2390.000 | 62.38 | -3.42 | 58.96 | 74.00 | -15.04 | peak | 150 | | Р | |
| 4 * | 2390.000 | 43.31 | -3.42 | 39.89 | 54.00 | -14.11 | AVG | 150 | | Р | |



TM1 / Polarization: Horizontal / Band: 2400-2483.5 MHz / BW: 20 / CH: H

4

DAG

2500.000

34.89

-3.13

31.76

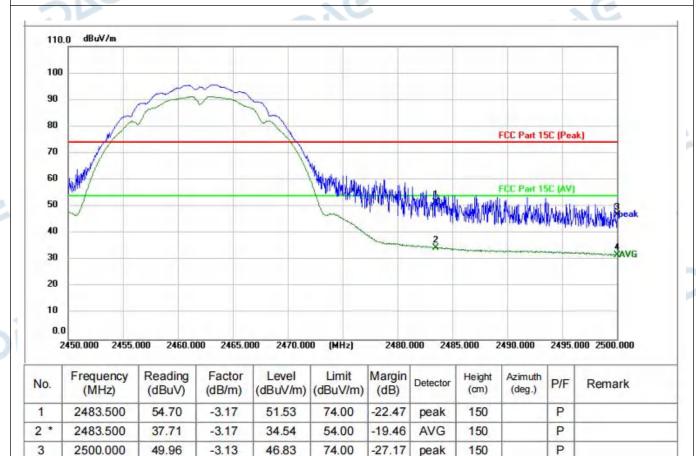
54.00

-22.24

AVG

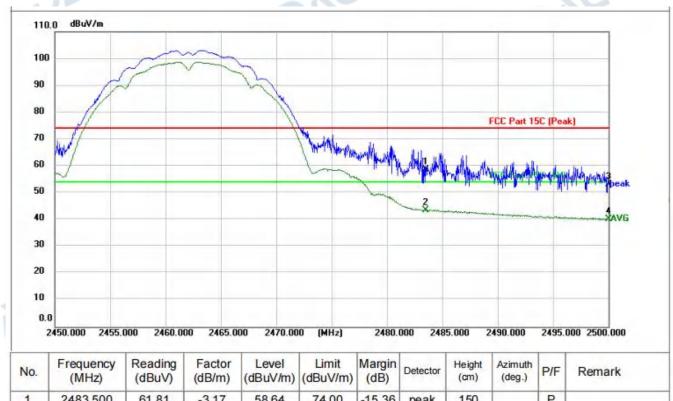
150

P





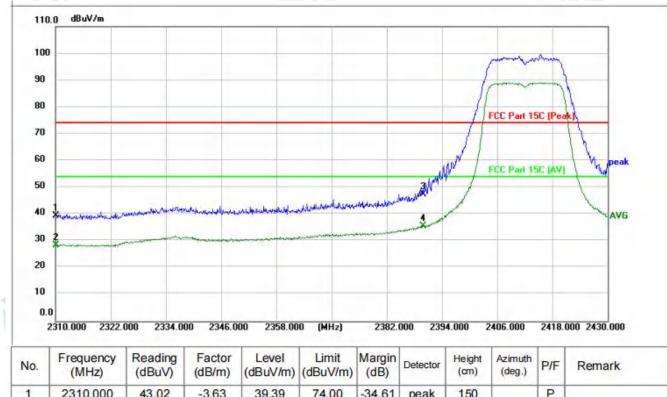
TM1 / Polarization: Vertical / Band: 2400-2483.5 MHz / BW: 20 / CH: H



| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | | Margin (dB) | Detector | Height (cm) | Azimuth (deg.) | P/F | Remark |
|-----|--------------------|----------------|------------------|-------------------|-------|----------------|----------|-------------|----------------|-----|--------|
| 1 | 2483.500 | 61.81 | -3.17 | 58.64 | 74.00 | -15.36 | peak | 150 | | Р | |
| 2 * | 2483.500 | 46.81 | -3.17 | 43.64 | 54.00 | -10.36 | AVG | 150 | | Р | |
| 3 | 2500.000 | 56.25 | -3.13 | 53.12 | 74.00 | -20.88 | peak | 150 | | Р | |
| 4 | 2500.000 | 43.32 | -3.13 | 40.19 | 54.00 | -13.81 | AVG | 150 | | Р | |



TM2 / Polarization: Horizontal / Band: 2400-2483.5 MHz / BW: 20 / CH: L



| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Azimuth (deg.) | P/F | Remark |
|-----|--------------------|-------------------|------------------|-------------------|-------------------|----------------|----------|-------------|----------------|-----|--------|
| 1 | 2310.000 | 43.02 | -3.63 | 39.39 | 74.00 | -34.61 | peak | 150 | | Р | |
| 2 | 2310.000 | 32.05 | -3.63 | 28.42 | 54.00 | -25.58 | AVG | 150 | | Р | |
| 3 | 2390.000 | 50.93 | -3.42 | 47.51 | 74.00 | -26.49 | peak | 150 | | Р | |
| 4 * | 2390.000 | 39.13 | -3.42 | 35.71 | 54.00 | -18.29 | AVG | 150 | | Р | |

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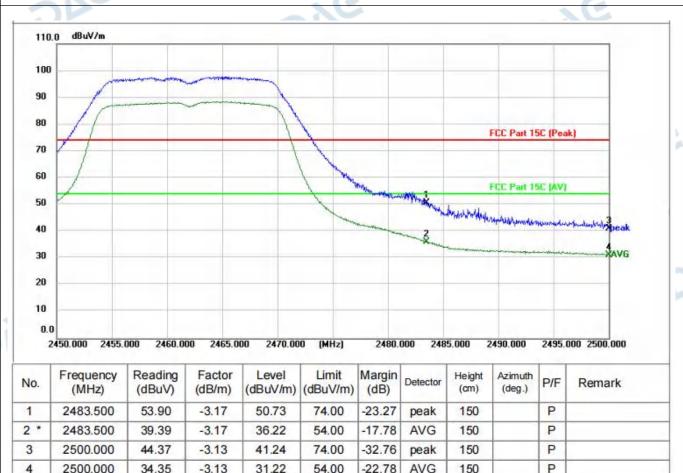


TM2 / Polarization: Vertical / Band: 2400-2483.5 MHz / BW: 20 / CH: L





TM2 / Polarization: Horizontal / Band: 2400-2483.5 MHz / BW: 20 / CH: H





P



2500.000

4

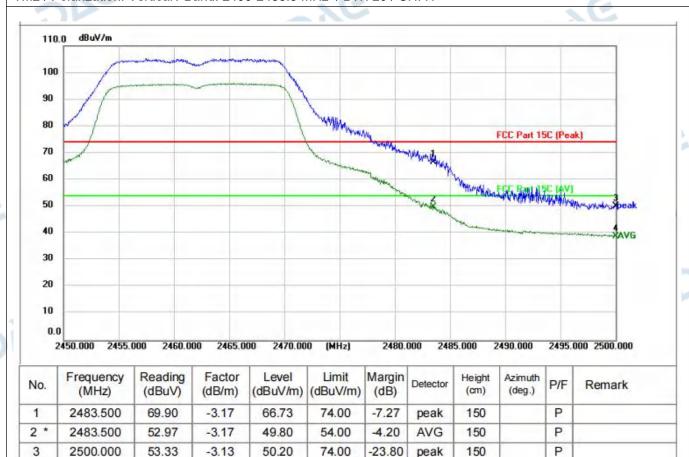
DAG

42.15

-3.13

39.02

TM2 / Polarization: Vertical / Band: 2400-2483.5 MHz / BW: 20 / CH: H



54.00

-14.98

AVG

150

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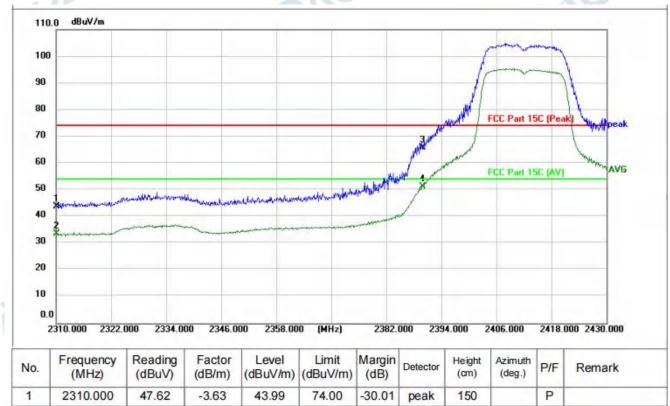
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DΔC



TM3 / Polarization: Horizontal / Band: 2400-2483.5 MHz / BW: 20 / CH: L

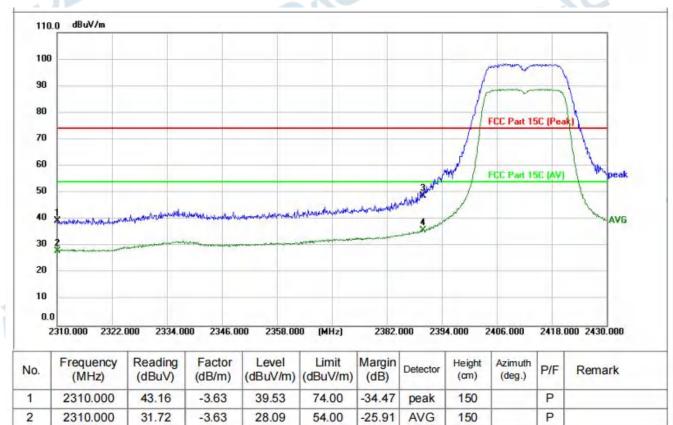


| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | | Margin (dB) | Detector | Height (cm) | Azimuth (deg.) | P/F | Remark |
|-----|--------------------|-------------------|------------------|-------------------|-------|----------------|----------|-------------|----------------|-----|--------|
| 1 | 2310.000 | 47.62 | -3.63 | 43.99 | 74.00 | -30.01 | peak | 150 | | Р | |
| 2 | 2310.000 | 37.24 | -3.63 | 33.61 | 54.00 | -20.39 | AVG | 150 | | Р | |
| 3 | 2390.000 | 69.39 | -3.42 | 65.97 | 74.00 | -8.03 | peak | 150 | | Р | |
| 4 * | 2390.000 | 54.66 | -3.42 | 51.24 | 54.00 | -2.76 | AVG | 150 | | Р | |





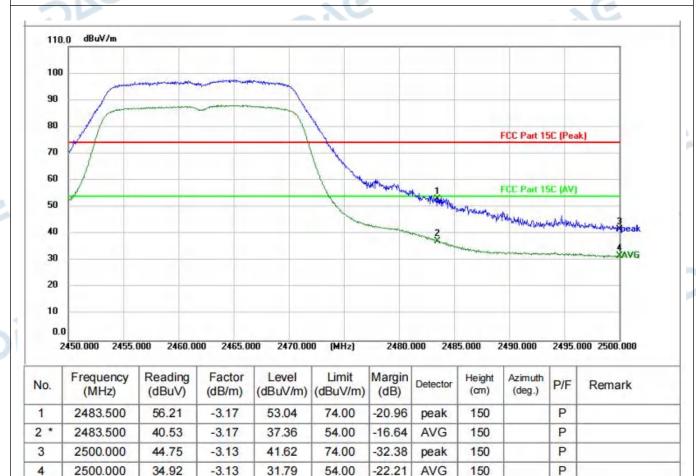
TM3 / Polarization: Vertical / Band: 2400-2483.5 MHz / BW: 20 / CH: L



DAG



TM3 / Polarization: Horizontal / Band: 2400-2483.5 MHz / BW: 20 / CH: H





P



2500,000

4

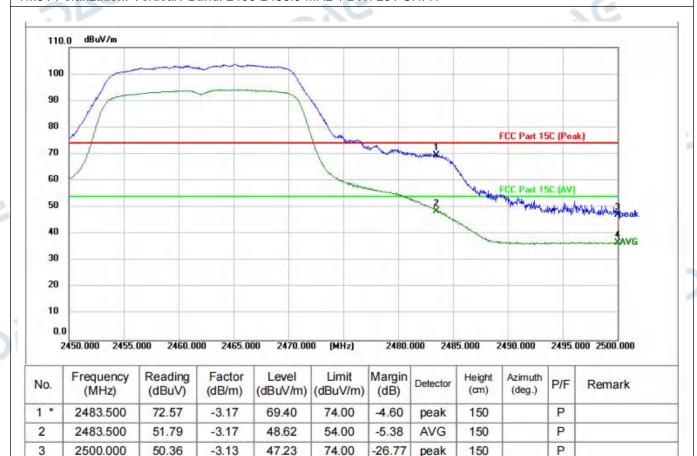
DAG

39.76

-3.13

36.63

TM3 / Polarization: Vertical / Band: 2400-2483.5 MHz / BW: 20 / CH: H



54.00

-17.37

AVG

150

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Report No.: DACE250528017RL001

4.7 Emissions in frequency bands (below 1GHz)

| Test Requirement: | | d), In addition, radiated emissions ned in § 15.205(a), must also com | |
|-------------------|--|---|---|
| | | in § 15.209(a)(see § 15.205(c)).` | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, |
| Test Limit: | Frequency (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 |
| | radiators operating under 54-72 MHz, 76-88 MHz, | paragraph (g), fundamental emiss r this section shall not be located i 174-216 MHz or 470-806 MHz. Ho s permitted under other sections o | in the frequency bands owever, operation within |
| | In the emission table about The emission limits show employing a CISPR quast 110–490 kHz and above | ove, the tighter limit applies at the on in the above table are based or si-peak detector except for the free 1000 MHz. Radiated emission lim ents employing an average detect | n measurements quency bands 9–90 kHz, nits in these three bands |
| Test Method: | ANSI C63.10-2020 section KDB 558074 D01 15.247 | | _ |
| Procedure: | above the ground at a 3 a 360 degrees to determine b. For above 1GHz, the E above the ground at a 3 degrees to determine the c. The EUT was set 3 or | EUT was placed on the top of a rot or 10 meter semi-anechoic chamble the position of the highest radiate EUT was placed on the top of a rometer fully-anechoic chamber. The position of the highest radiation. 10 meters away from the interference top of a variable-height antenna | per. The table was rotated tion. tating table 1.5 meters e table was rotated 360 ence-receiving antenna, |
| | d. The antenna height is determine the maximum polarizations of the anter e. For each suspected er the antenna was tuned to below 30MHz, the antenna was turned from 0 degree f. The test-receiver syste Bandwidth with Maximun | varied from one meter to four met value of the field strength. Both he made the measuren mission, the EUT was arranged to be heights from 1 meter to 4 meters ha was tuned to heights 1 meter) are to 360 degrees to find the max m was set to Peak Detect Function | ters above the ground to orizontal and vertical nent. its worst case and then its (for the test frequency cand the rotatable table imum reading. In and Specified |
| | specified, then testing co reported. Otherwise the entested one by one using reported in a data sheet. h. Test the EUT in the low i. The radiation measurer Transmitting mode, and for the restriction of the specific specified in the specified specified specified in the specified sp | uld be stopped and the peak valu emissions that did not have 10dB peak, quasi-peak or average meth | es of the EUT would be margin would be re- nod as specified and ther the Highest channel. is positioning for it is the worst case. |

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channel. Only the worst case is recorded in the report.

2) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows: Final Test Level =Receiver Reading + Antenna Factor + Cable Factor "C Preamplifier Factor

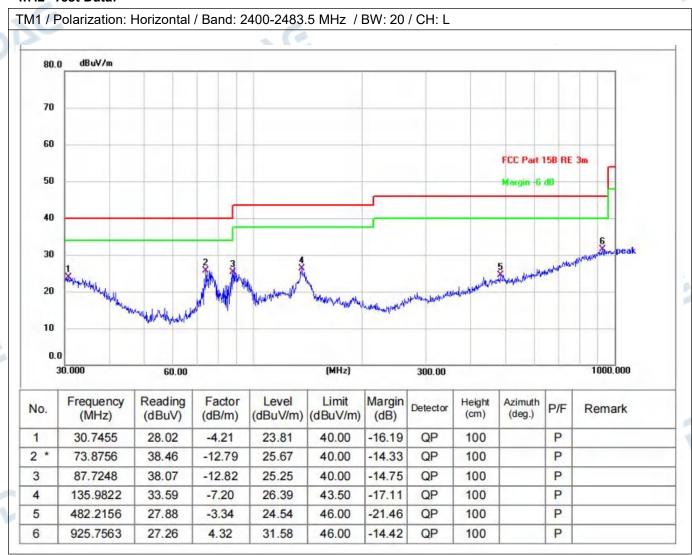
Report No.: DACE250528017RL001

3) Scan from 9kHz to 25GHz, the disturbance above 12.75GHz and below 30MHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported. Fundamental frequency is blocked by filter, and only spurious emission is shown.

4.7.1 E.U.T. Operation:

| Operating Environment: | | | | | | | | | | |
|------------------------|---------------------|------|-----------|------|-----------------------|---------|--|--|--|--|
| Temperature: | emperature: 22.8 °C | | Humidity: | 53 % | Atmospheric Pressure: | 101 kPa | | | | |
| Pretest mode: | | TM1, | TM2, TM3 | | . 6 | | | | | |
| Final test mode: | | TM1 | | | 270 | | | | | |

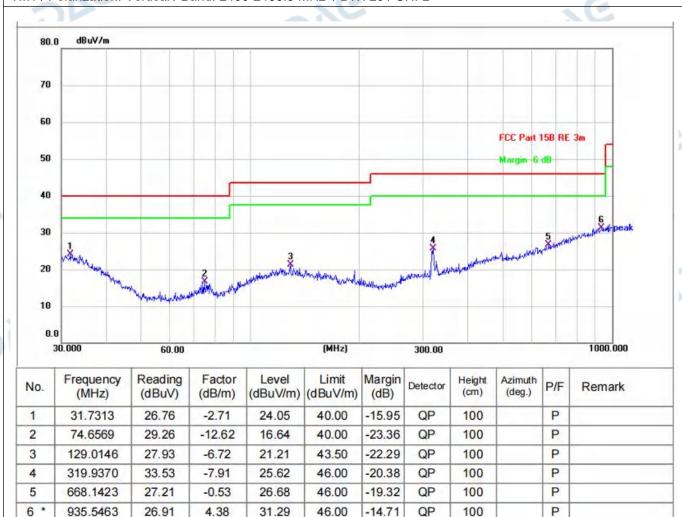
4.7.2 Test Data:



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TM1 / Polarization: Vertical / Band: 2400-2483.5 MHz / BW: 20 / CH: L





4.8 Emissions in frequency bands (above 1GHz)

| Test Requirement: | | ns which fall in the restricted ban | | | | | |
|-------------------|---|---|--|--|--|--|--|
| | 15.205(a), must also comply with the radiated emission limits specified in § 15.209(a)(see § 15.205(c)). | | | | | | |
| Test Limit: | Frequency (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 | | | | |
| | and 15.241. In the emission table above, the tighter limit applies at the band edges. The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9–90 kHz, 110–490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector. | | | | | | |
| Test Method: | ANSI C63.10-2020 section 6 KDB 558074 D01 15.247 M | 5.6.4 | | | | | |
| Procedure: | above the ground at a 3 or 3 360 degrees to determine the b. For above 1GHz, the EUT above the ground at a 3 me degrees to determine the poc. The EUT was set 3 or 10 which was mounted on the td. The antenna height is var determine the maximum val polarizations of the antenna e. For each suspected emist the antenna was tuned to he | was placed on the top of a rotation of meter semi-anechoic chamber, the position of the highest radiation was placed on the top of a rotate ter fully-anechoic chamber. The table it is it is a sition of the highest radiation, meters away from the interference op of a variable-height antenna to it is ided from one meter to four meters are set to make the measurement are set to make the measurement is ion, the EUT was arranged to its eights from 1 meters of 4 meters (for the field strength). | The table was rotated in. Ing table 1.5 meters able was rotated 360 e-receiving antenna, ower. Is above the ground to zontal and vertical int. In worst case and then or the test frequency of | | | | |
| | below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading. f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. g. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be retested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet. h. Test the EUT in the lowest channel, the middle channel, the Highest channel. i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case. j. Repeat above procedures until all frequencies measured was complete. Remark: 1) For emission below 1GHz, through pre-scan found the worst case is the lowest | | | | | | |

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channel. Only the worst case is recorded in the report.

2) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows: Final Test Level =Receiver Reading + Antenna Factor + Cable Factor "C Preamplifier Factor

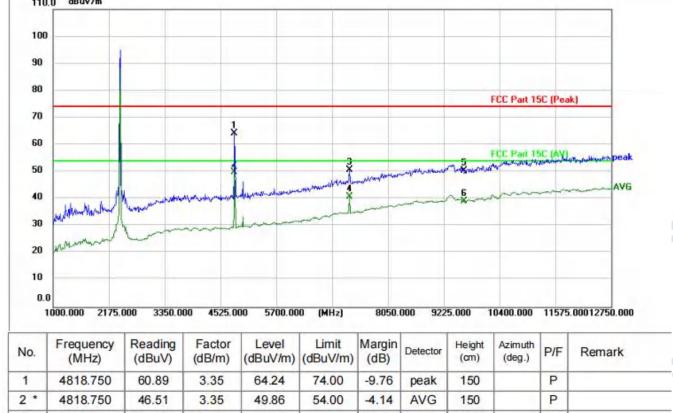
3) Scan from 9kHz to 25GHz, the disturbance above 12.75GHz and below 30MHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported. Fundamental frequency is blocked by filter, and only spurious emission is shown.

4.8.1 E.U.T. Operation:

| Operating Environment: | | | | | | | | |
|------------------------|--|--|-----------|------|---------|--|--|--|
| Temperature: 22.8 °C | | | Humidity: | 53 % | 101 kPa | | | |
| Pretest mode: TM1 | | | TM2, TM3 | | . 6 | | | |
| Final test mode: TM1 | | | | | | | | |

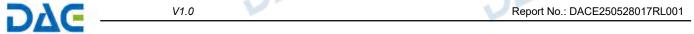
4.8.2 Test Data:

TM1 / Polarization: Horizontal / Band: 2400-2483.5 MHz / BW: 20 / CH: L



| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Azimuth (deg.) | P/F | Remark |
|-----|--------------------|-------------------|------------------|-------------------|-------------------|----------------|----------|-------------|----------------|-----|--------|
| 1 | 4818.750 | 60.89 | 3.35 | 64.24 | 74.00 | -9.76 | peak | 150 | | Р | |
| 2 * | 4818.750 | 46.51 | 3.35 | 49.86 | 54.00 | -4.14 | AVG | 150 | | Р | |
| 3 | 7239.250 | 40.22 | 10.42 | 50.64 | 74.00 | -23.36 | peak | 150 | | Р | |
| 4 | 7239.250 | 30.29 | 10.42 | 40.71 | 54.00 | -13.29 | AVG | 150 | | Р | |
| 5 | 9648.000 | 35.41 | 15.10 | 50.51 | 74.00 | -23.49 | peak | 150 | | Р | |
| 6 | 9648.000 | 24.11 | 15.10 | 39.21 | 54.00 | -14.79 | AVG | 150 | | Р | |

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TM1 / Polarization: Vertical / Band: 2400-2483.5 MHz / BW: 20 / CH: L 110.0 dBuV/m 100 90 80 FCC Part 15C (Peak) 70 60 50 40 30 20 10 0.0 10400.000 11575.00012750.000 1000.000 2175.000 3350.000 4525,000 5700.000 8050.000 9225.000

| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Azimuth (deg.) | P/F | Remark |
|-----|--------------------|----------------|------------------|-------------------|-------------------|----------------|----------|-------------|----------------|-----|--------|
| 1 | 4818.750 | 65.47 | 3.35 | 68.82 | 74.00 | -5.18 | peak | 150 | | Р | |
| 2 | 4818.750 | 46.37 | 3.35 | 49.72 | 54.00 | -4.28 | AVG | 150 | -== | Р | |
| 3 | 7239.250 | 53.09 | 10.42 | 63.51 | 74.00 | -10.49 | peak | 150 | | Р | |
| 4 * | 7239.250 | 39.83 | 10.42 | 50.25 | 54.00 | -3.75 | AVG | 150 | | Р | |
| 5 | 9648.000 | 47.22 | 15.10 | 62.32 | 74.00 | -11.68 | peak | 150 | | Р | |
| 6 | 9648.000 | 34.14 | 15.10 | 49.24 | 54.00 | -4.76 | AVG | 150 | | Р | |
| 7 | 12068.500 | 40.91 | 18.14 | 59.05 | 74.00 | -14.95 | peak | 150 | | Р | |
| 8 | 12068.500 | 30.66 | 18.14 | 48.80 | 54.00 | -5.20 | AVG | 150 | | P | |



9753.750

31.86

15.09

46.95

54.00

-7.05

AVG

150

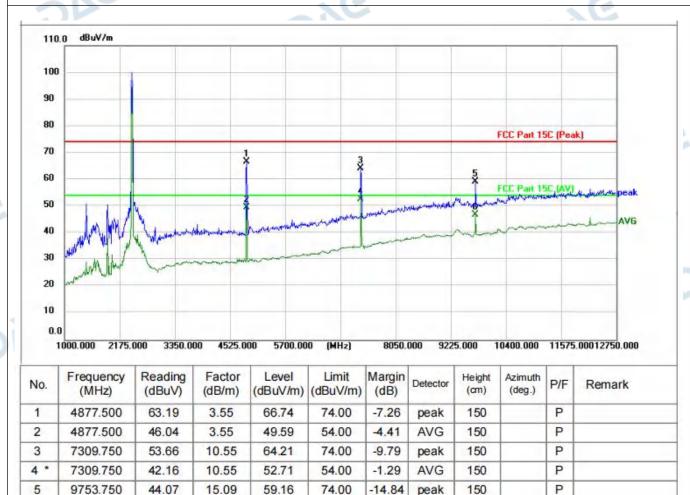
P

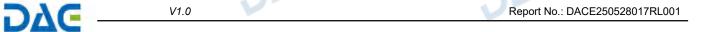
DAG

6

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TM1 / Polarization: Horizontal / Band: 2400-2483.5 MHz / BW: 20 / CH: M





TM1 / Polarization: Vertical / Band: 2400-2483.5 MHz / BW: 20 / CH: M

6

9748.000

24.57

15.10

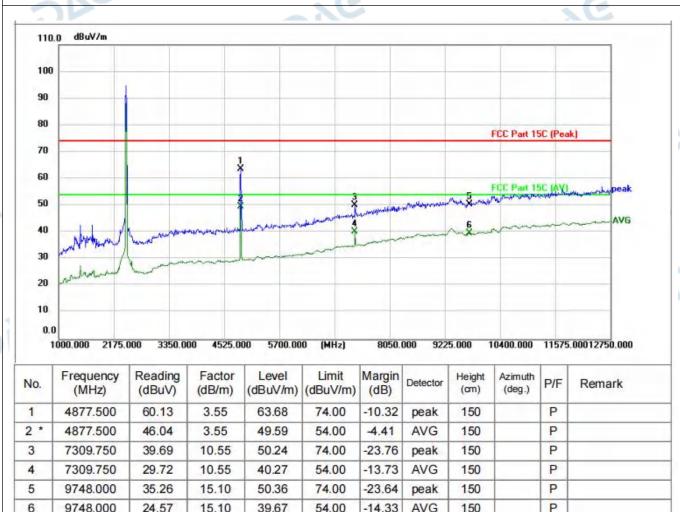
39.67

54.00

AVG

-14.33

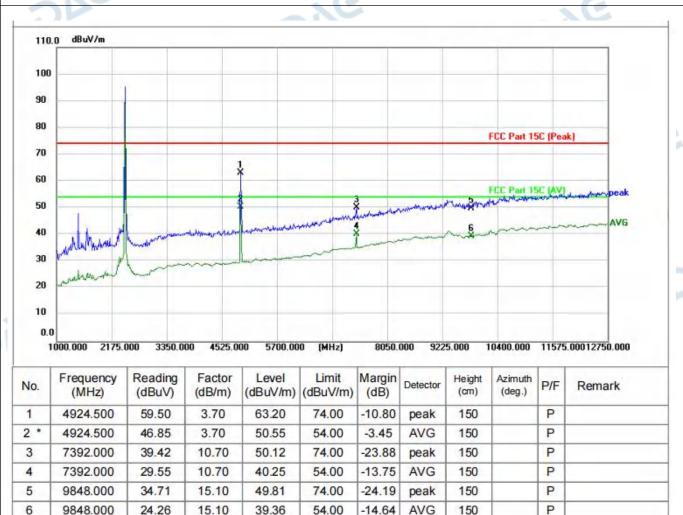
150





Report No.: DACE250528017RL001

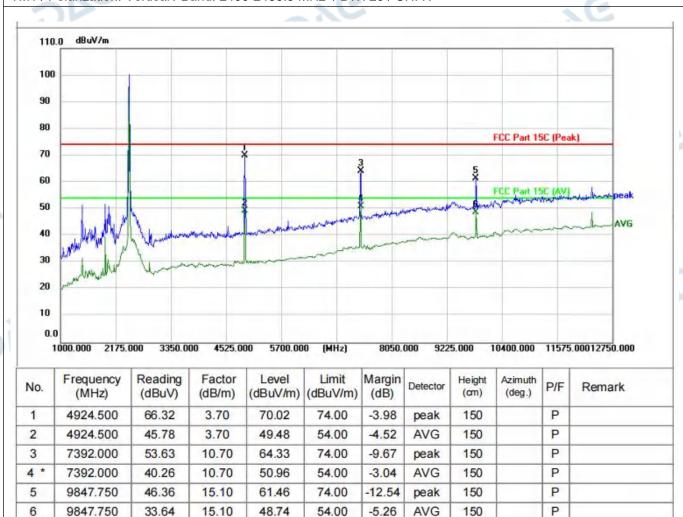
TM1 / Polarization: Horizontal / Band: 2400-2483.5 MHz / BW: 20 / CH: H





Report No.: DACE250528017RL001

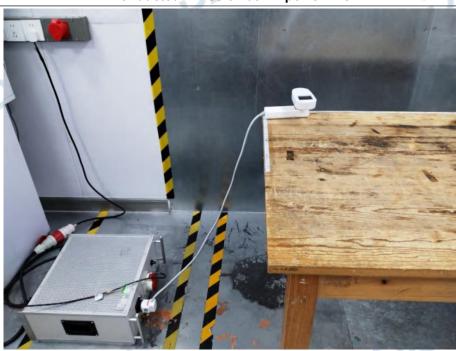
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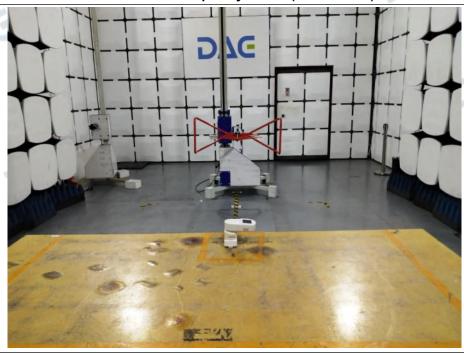


5 TEST SETUP PHOTOS

Conducted Emission at AC power line



Emissions in frequency bands (below 1GHz)



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6 PHOTOS OF THE EUT

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External





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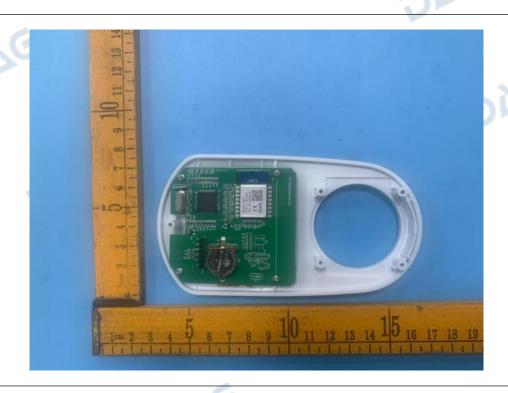
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Internal





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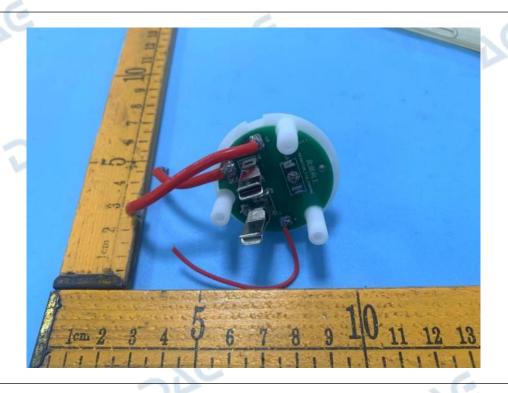
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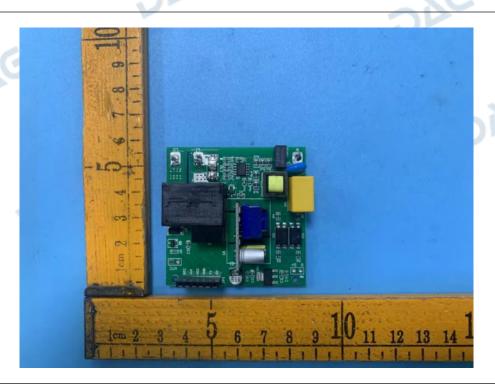
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102, Building H1, & 1/F., Building H, Hongfa Science & Technology Park, Tangtou Community, Shiyan Subdistrict, Bao'an District, Shenzhen, Guangdong, China

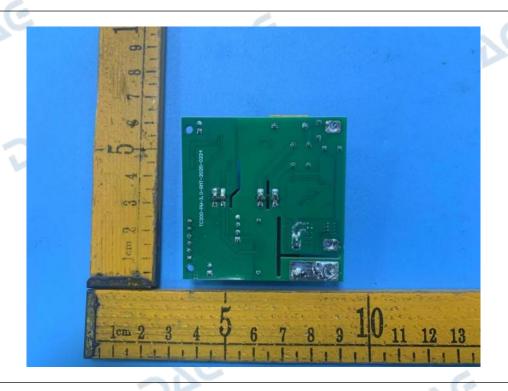
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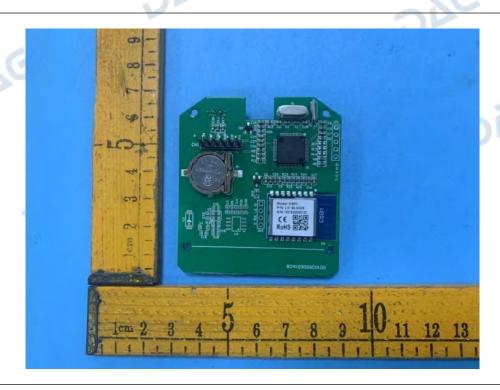
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102, Building H1, & 1/F., Building H, Hongfa Science & Technology Park, Tangtou Community, Shiyan Subdistrict, Bao'an District, Shenzhen, Guangdong, China

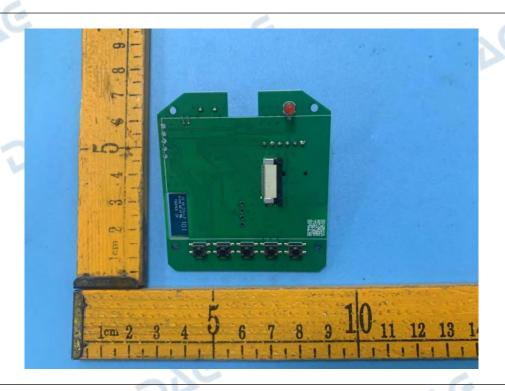
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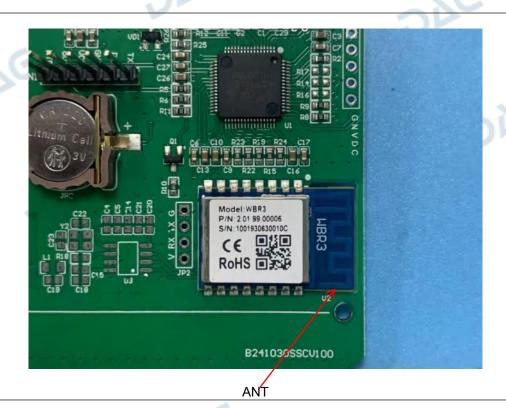
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Appendix

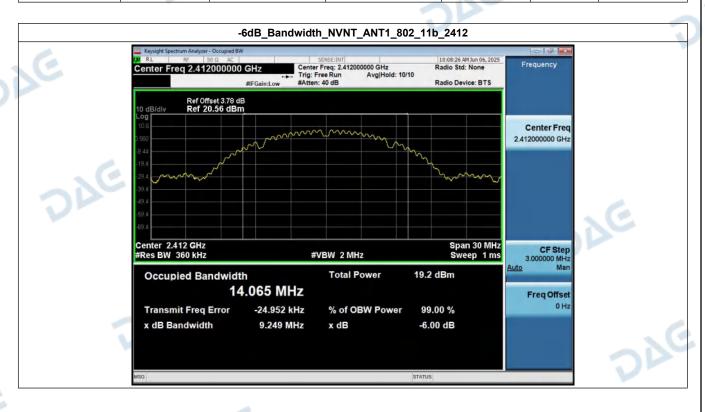
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DAG

BRST(US) FCC_2.4G_WIFI (Part15.247) Test Data

1. -6dB Bandwidth

| Condition | Antenna | Modulation | Frequency (MHz) | -6dB BW(MHz) | limit(kHz) | Result |
|-----------|---------|---------------|-----------------|--------------|------------|--------|
| NVNT | ANT1 | 802.11b | 2412.00 | 9.25 | 500 | Pass |
| NVNT | ANT1 | 802.11b | 2437.00 | 10.16 | 500 | Pass |
| NVNT | ANT1 | 802.11b | 2462.00 | 10.16 | 500 | Pass |
| NVNT | ANT1 | 802.11g | 2412.00 | 16.46 | 500 | Pass |
| NVNT | ANT1 | 802.11g | 2437.00 | 16.49 | 500 | Pass |
| NVNT | ANT1 | 802.11g | 2462.00 | 16.50 | 500 | Pass |
| NVNT | ANT1 | 802.11n(HT20) | 2412.00 | 17.60 | 500 | Pass |
| NVNT | ANT1 | 802.11n(HT20) | 2437.00 | 17.61 | 500 | Pass |
| NVNT | ANT1 | 802.11n(HT20) | 2462.00 | 17.62 | 500 | Pass |

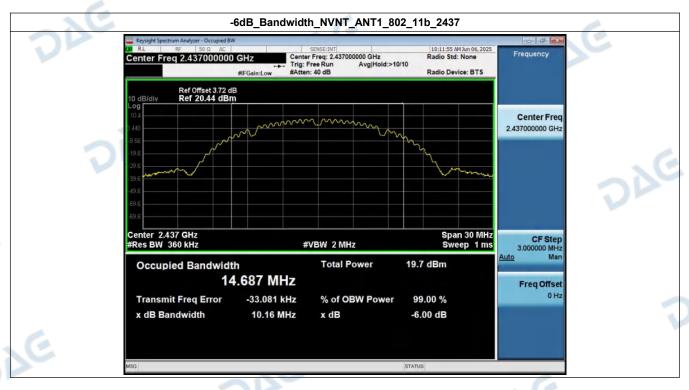


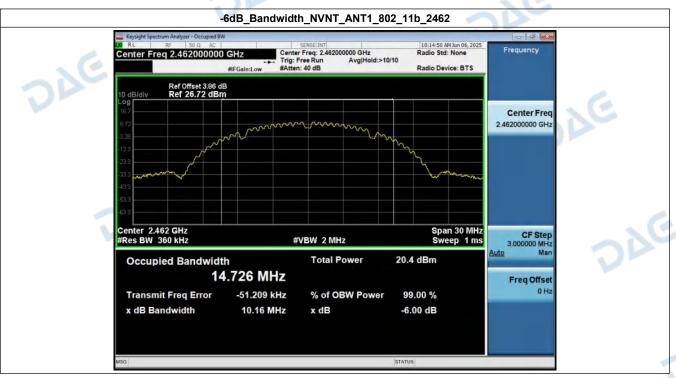
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V1.0





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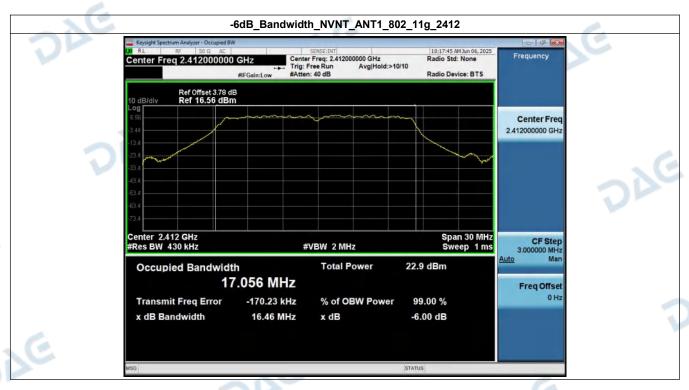
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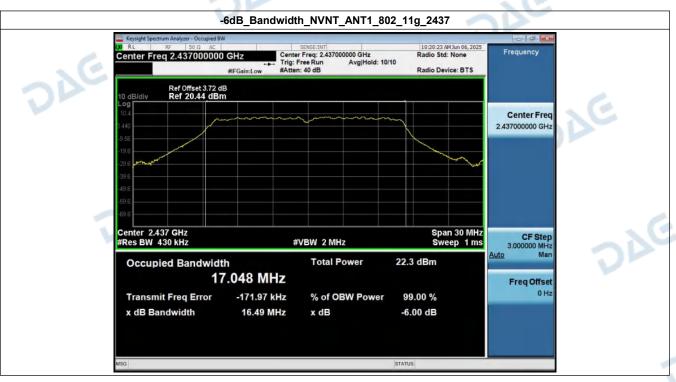
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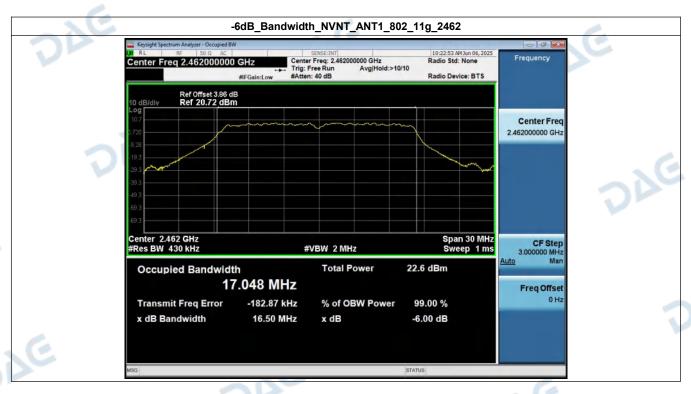


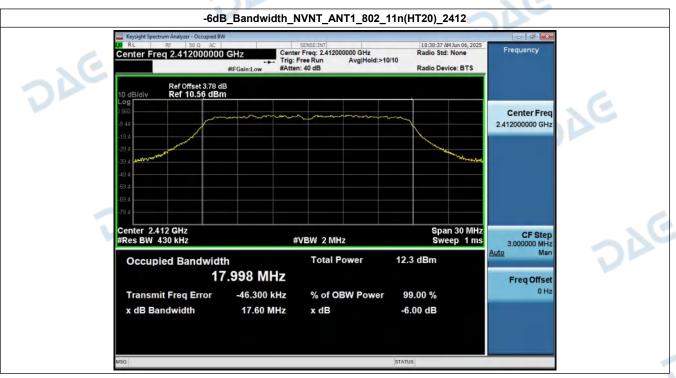




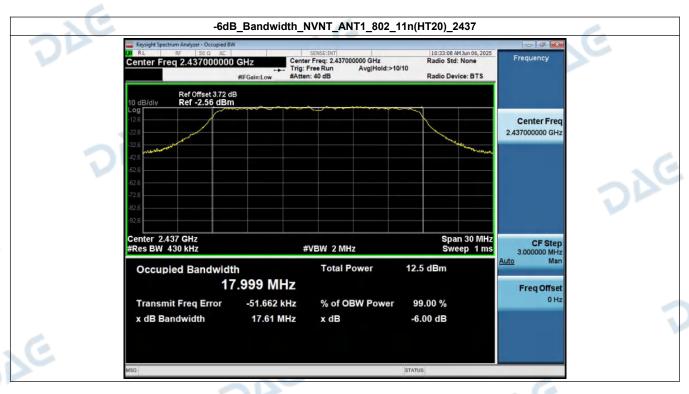
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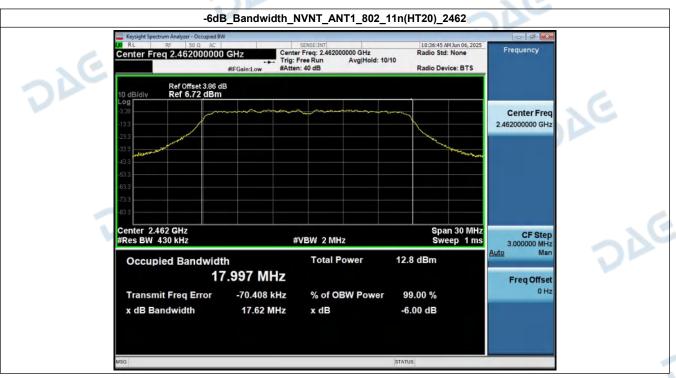


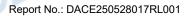








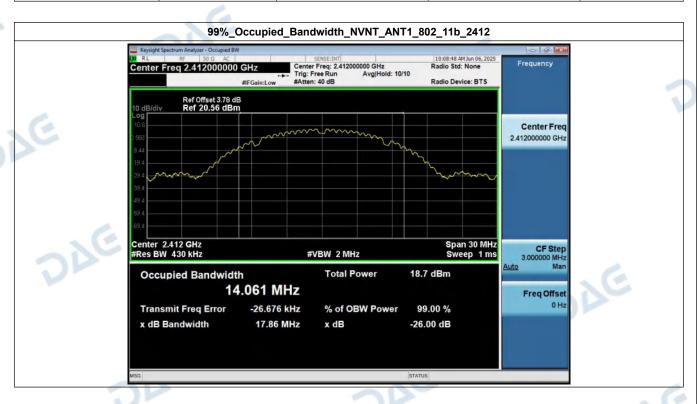






2. 99% Occupied Bandwidth

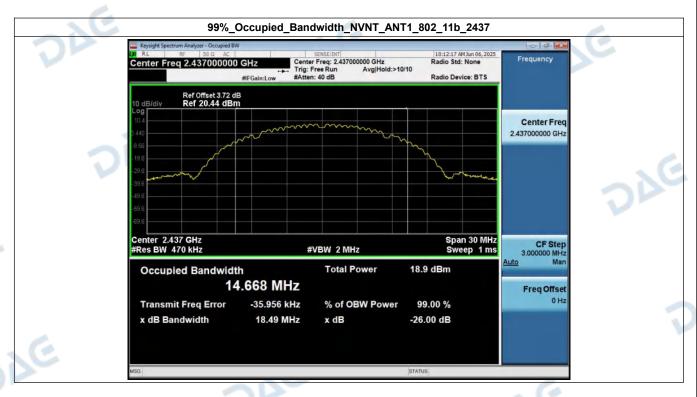
| Condition | Antenna | Modulation | Frequency (MHz) | 99%%BW(MHz) |
|-----------|---------|---------------|-----------------|-------------|
| NVNT | ANT1 | 802.11b | 2412.00 | 14.061 |
| NVNT | ANT1 | 802.11b | 2437.00 | 14.668 |
| NVNT | ANT1 | 802.11b | 2462.00 | 14.712 |
| NVNT | ANT1 | 802.11g | 2412.00 | 17.254 |
| NVNT | ANT1 | 802.11g | 2437.00 | 17.249 |
| NVNT | ANT1 | 802.11g | 2462.00 | 17.257 |
| NVNT | ANT1 | 802.11n(HT20) | 2412.00 | 18.165 |
| NVNT | ANT1 | 802.11n(HT20) | 2437.00 | 18.161 |
| NVNT | ANT1 | 802.11n(HT20) | 2462.00 | 18.145 |

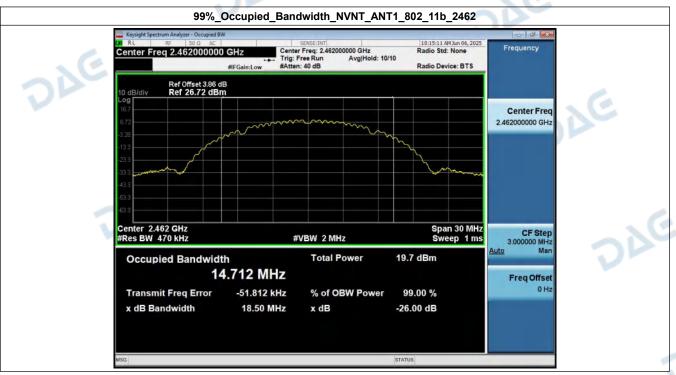


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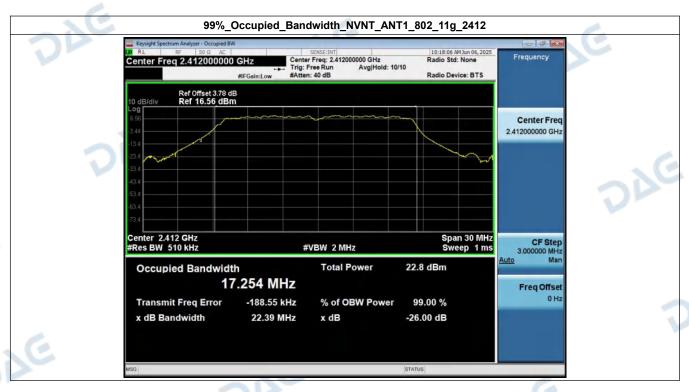


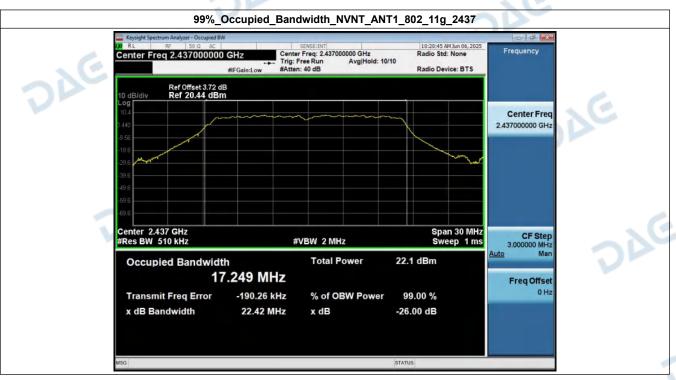




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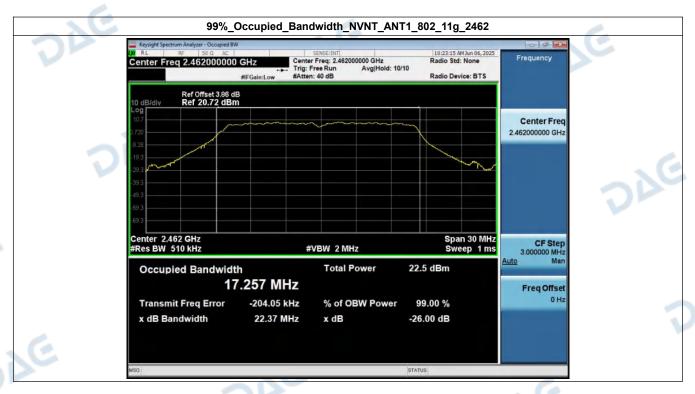


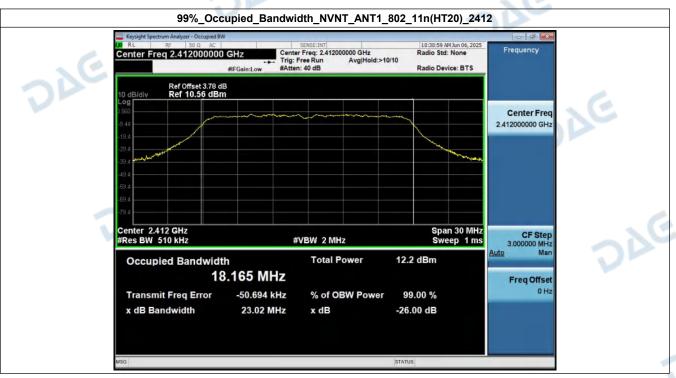




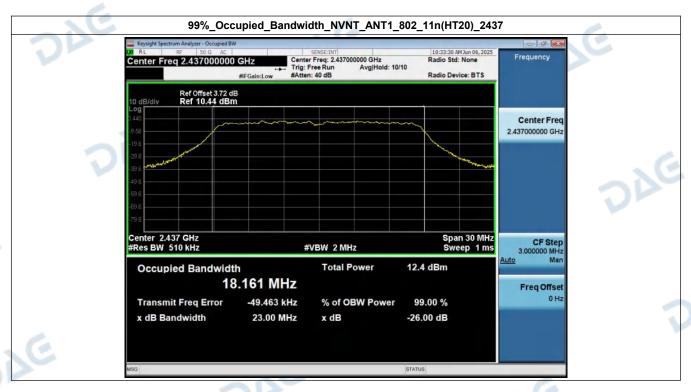
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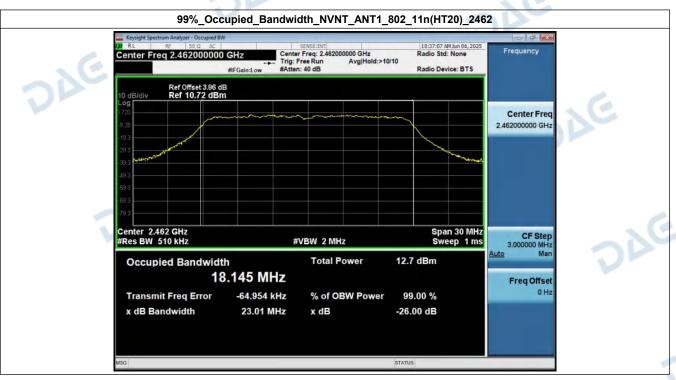




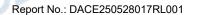








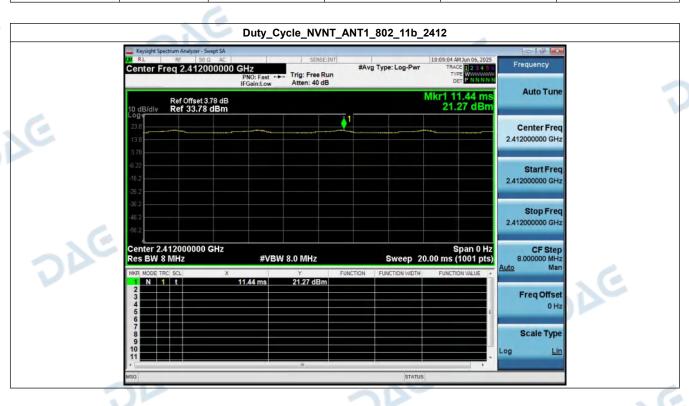
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3. Duty Cycle

| Condition | ondition Antenna M | | Frequency (MHz) | Duty cycle(%) | Duty factor(dB) |
|-----------|--------------------|---------------|-----------------|---------------|-----------------|
| NVNT | ANT1 | 802.11b | 2412.00 | 100 | 0.00 |
| NVNT | ANT1 | 802.11b | 2437.00 | 100 | 0.00 |
| NVNT | ANT1 | 802.11b | 2462.00 | 100 | 0.00 |
| NVNT | ANT1 | 802.11g | 2412.00 | 100 | 0.00 |
| NVNT | ANT1 | 802.11g | 2437.00 | 100 | 0.00 |
| NVNT | ANT1 | 802.11g | 2462.00 | 100 | 0.00 |
| NVNT | ANT1 | 802.11n(HT20) | 2412.00 | 100 | 0.00 |
| NVNT | ANT1 | 802.11n(HT20) | 2437.00 | 100 | 0.00 |
| NVNT | ANT1 | 802.11n(HT20) | 2462.00 | 100 | 0.00 |

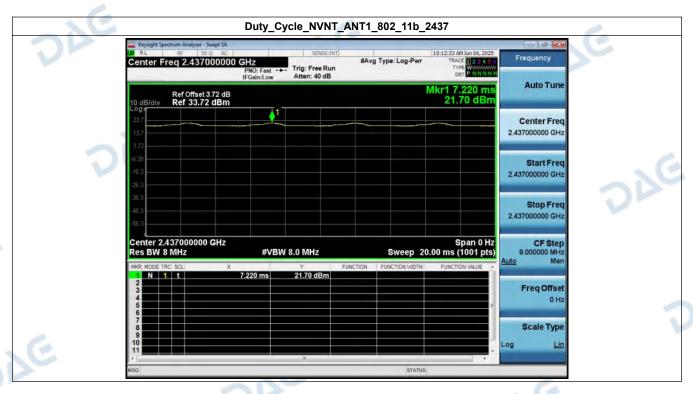


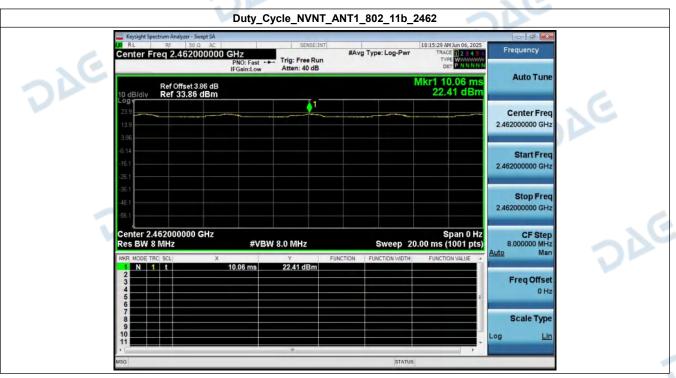
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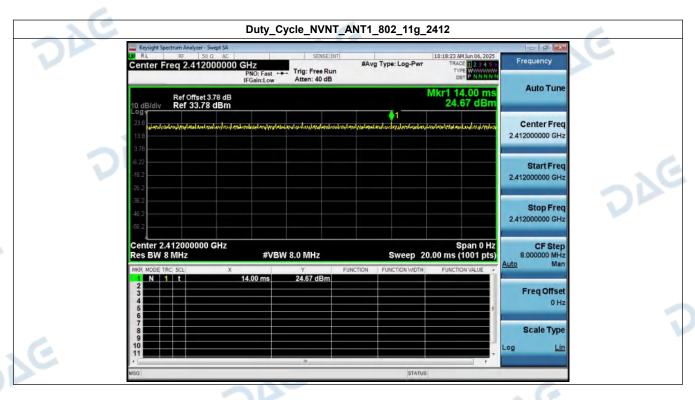


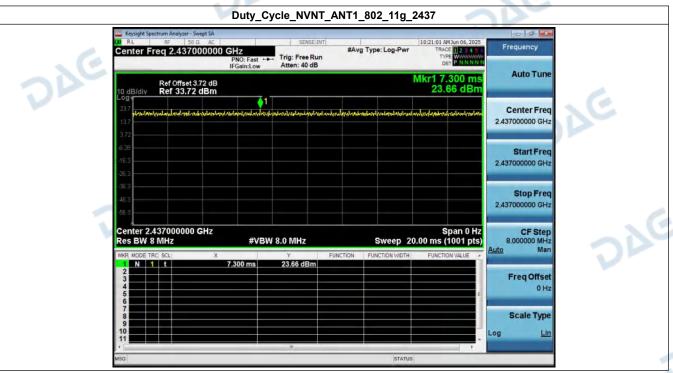




DAG

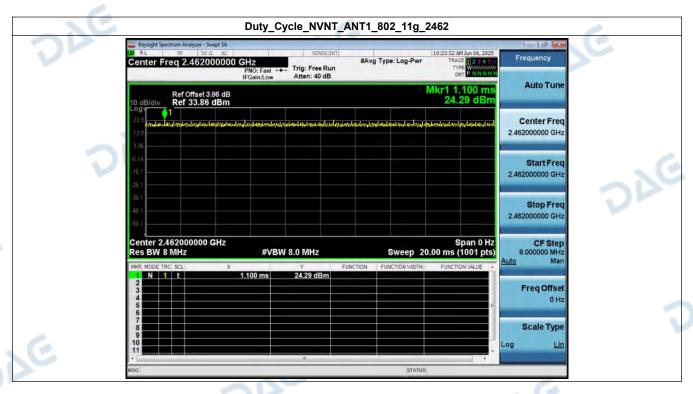
V1.0

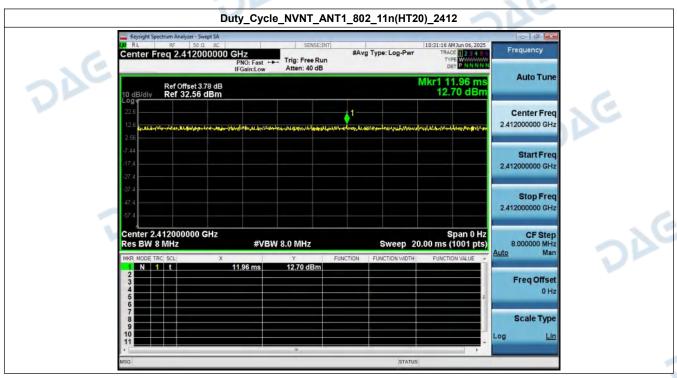




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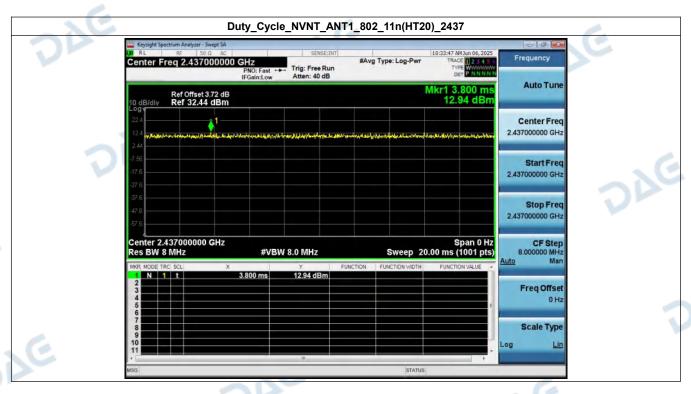
E-mail: service@dace-lab.com

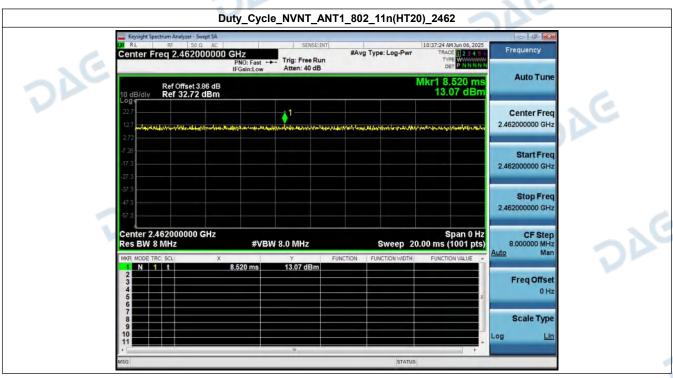
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DAG

V1.0



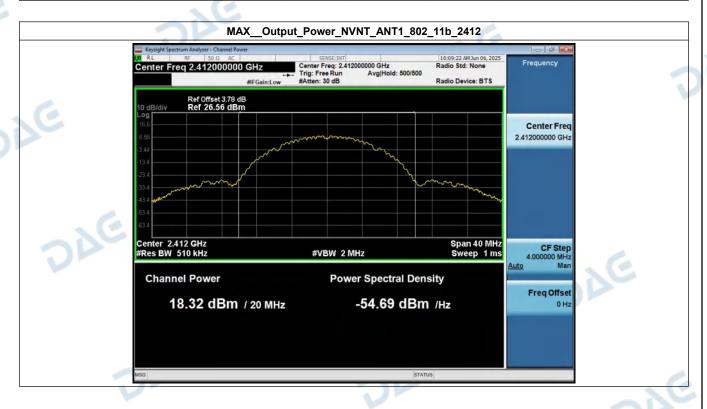




4. MAX. Output Power

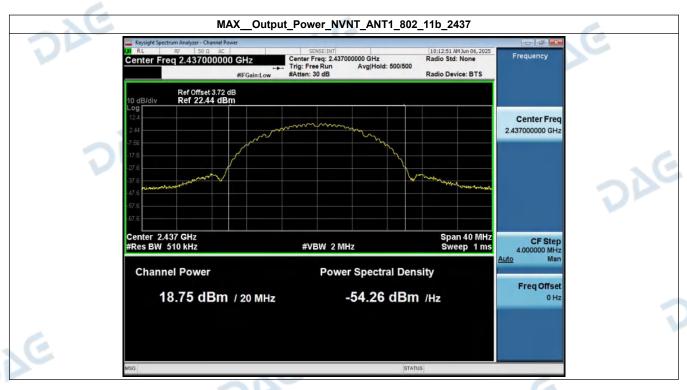
| | | 1 | | - | | | 1 | | |
|-----------|---------|---------------|--------------------|----------|-------------------------|--------------------|---------------------|------------|--------|
| Condition | Antenna | Modulation | Frequency (MHz) | Detector | Conducted Power(dBm) | Duty factor(dB) | Total Power(dBm) | limit(dBm) | Result |
| NVNT | ANT1 | 802.11b | 2412.00 | Peak | 18.32 | N/A | 18.32 | 30 | Pass |
| NVNT | ANT1 | 802.11b | 2437.00 | Peak | 18.75 | N/A | 18.75 | 30 | Pass |
| NVNT | ANT1 | 802.11b | 2462.00 | Peak | 19.57 | N/A | 19.57 | 30 | Pass |
| NVNT | ANT1 | 802.11g | 2412.00 | Peak | 22.70 | N/A | 22.70 | 30 | Pass |
| NVNT | ANT1 | 802.11g | 2437.00 | Peak | 21.96 | N/A | 21.96 | 30 | Pass |
| NVNT | ANT1 | 802.11g | 2462.00 | Peak | 22.34 | N/A | 22.34 | 30 | Pass |
| NVNT | ANT1 | 802.11n(HT20) | 2412.00 | Peak | 11.93 | N/A | 11.93 | 30 | Pass |
| NVNT | ANT1 | 802.11n(HT20) | 2437.00 | Peak | 12.14 | N/A | 12.14 | 30 | Pass |
| NVNT | ANT1 | 802.11n(HT20) | 2462.00 | Peak | 12.43 | N/A | 12.43 | 30 | Pass |

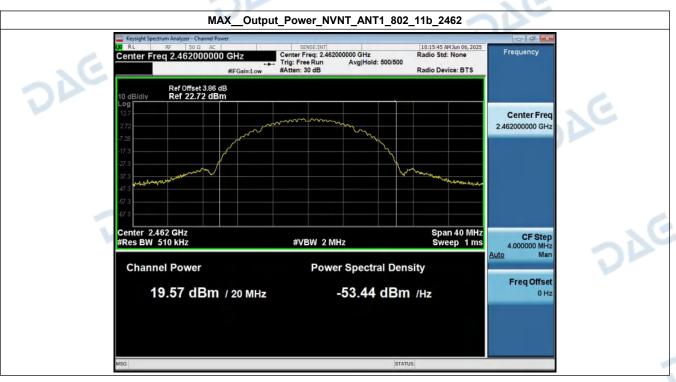
Report No.: DACE250528017RL001



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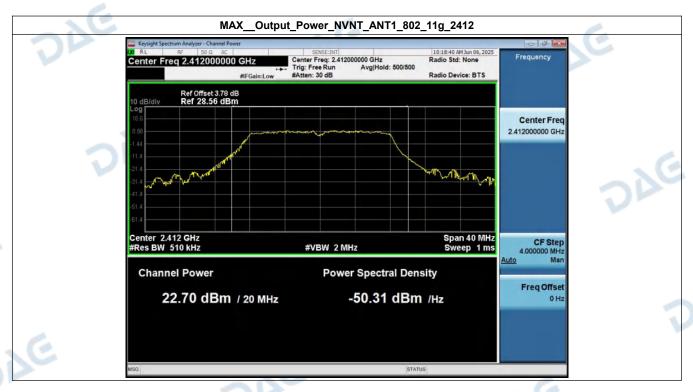


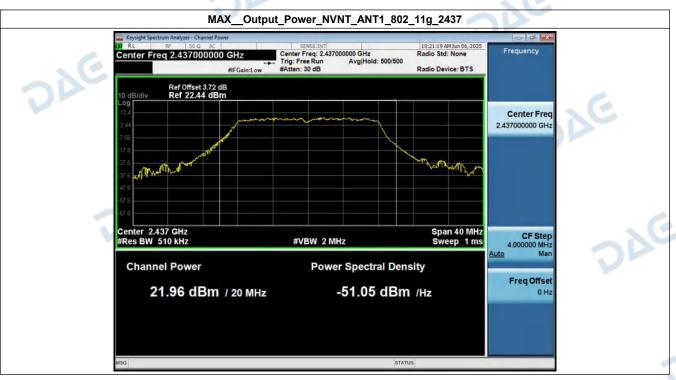




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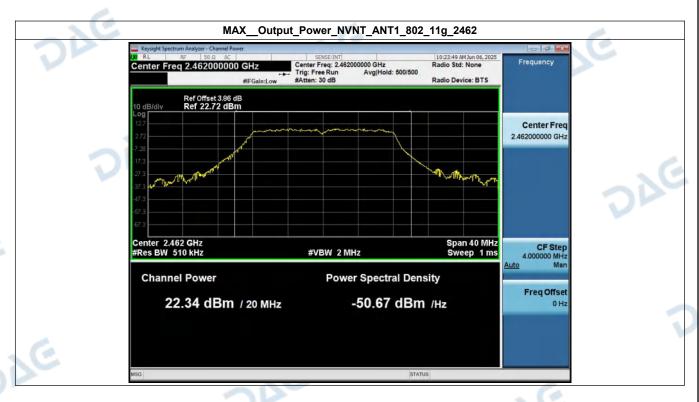


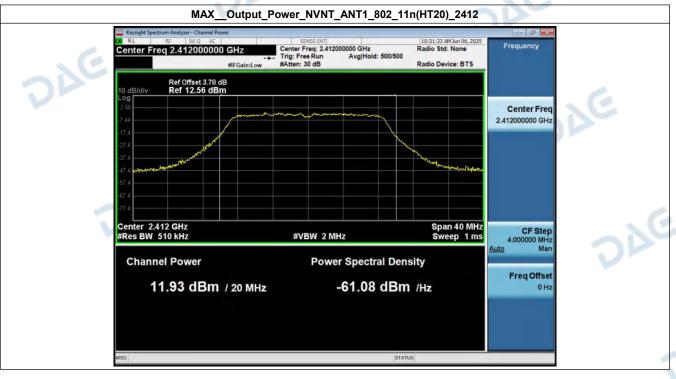




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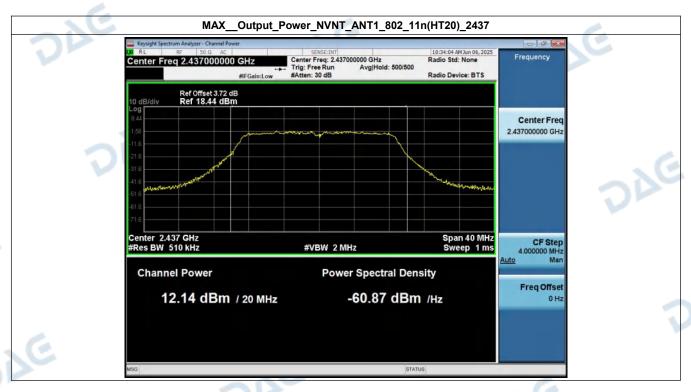


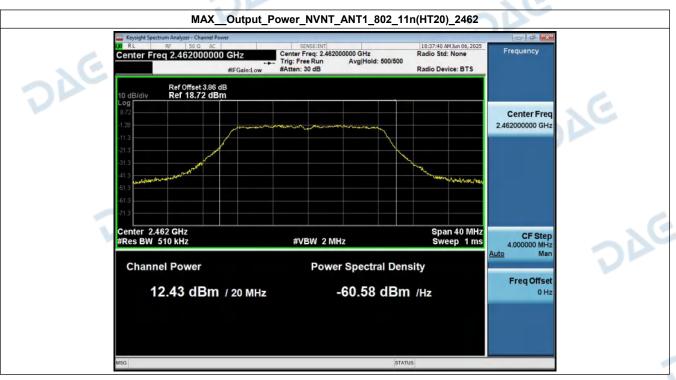


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V1.0





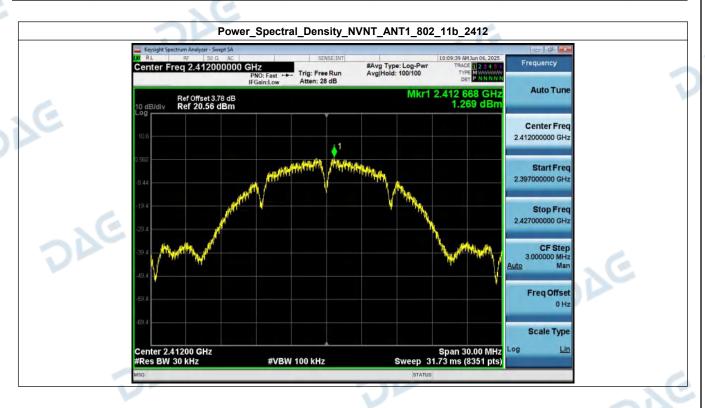
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5. Power Spectral Density

| Condition | Antenna | Modulation | Frequency (MHz) | PSD(dBm/3kHz) | limit(dBm/3kHz) | Result |
|-----------|---------|---------------|--------------------|---------------|-----------------|--------|
| NVNT | ANT1 | 802.11b | 2412.00 | -8.73 | 8 | Pass |
| NVNT | ANT1 | 802.11b | 2437.00 | -8.61 | 8 | Pass |
| NVNT | ANT1 | 802.11b | 2462.00 | -7.82 | 8 | Pass |
| NVNT | ANT1 | 802.11g | 2412.00 | -11.00 | 8 | Pass |
| NVNT | ANT1 | 802.11g | 2437.00 | -11.69 | 8 | Pass |
| NVNT | ANT1 | 802.11g | 2462.00 | -11.33 | 8 | Pass |
| NVNT | ANT1 | 802.11n(HT20) | 2412.00 | -21.37 | 8 | Pass |
| NVNT | ANT1 | 802.11n(HT20) | 2437.00 | -20.90 | 8 | Pass |
| NVNT | ANT1 | 802.11n(HT20) | 2462.00 | -20.71 | 8 | Pass |

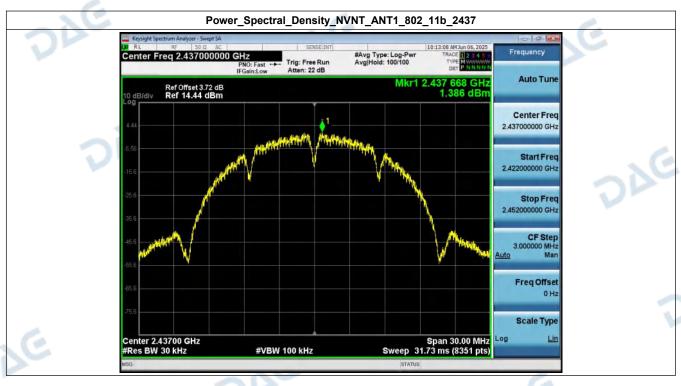
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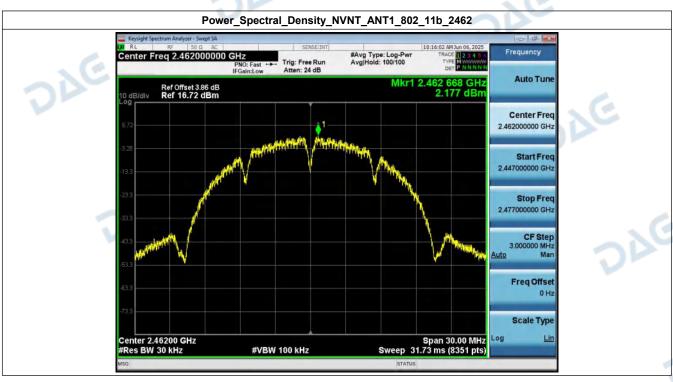


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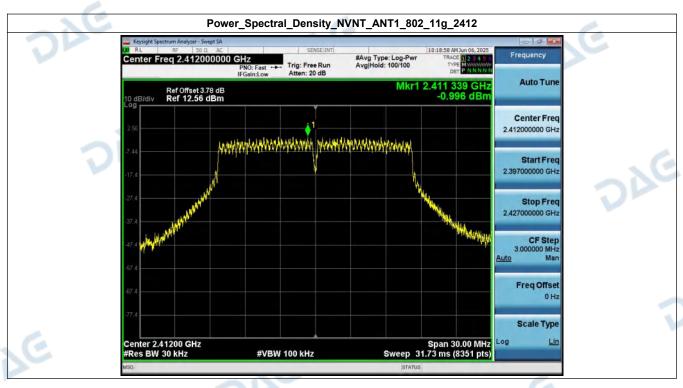


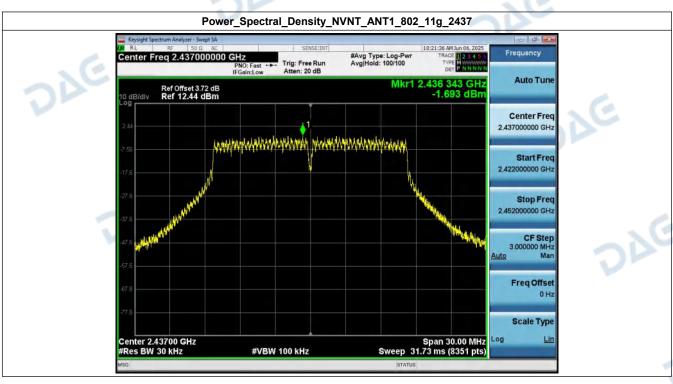
DAG





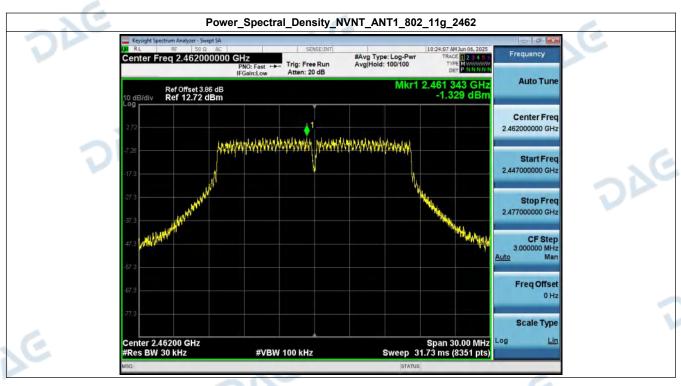


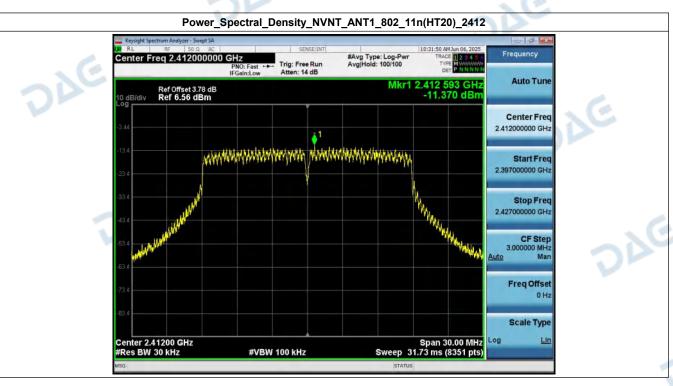




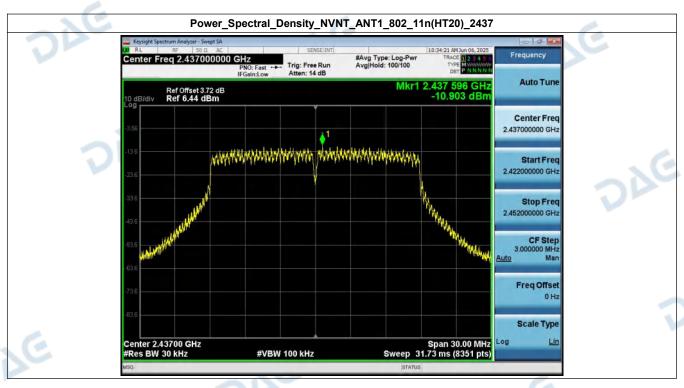


DIE













V1.0

6. Bandedge

| Condition | Antenna | Modulation | TX_Frequency (MHz) | Max. Mark_freq(MHz) | Ref_level(dBm) | Spurious level(dBm) | limit(dBm) | Result |
|-----------|---------|---------------|-----------------------|------------------------|----------------|------------------------|------------|--------|
| NVNT | ANT1 | 802.11b | 2412.00 | 2399.936 | 6.321 | -29.495 | -13.679 | Pass |
| NVNT | ANT1 | 802.11b | 2462.00 | 2488.720 | 7.271 | -47.197 | -12.729 | Pass |
| NVNT | ANT1 | 802.11g | 2412.00 | 2399.824 | 1.785 | -32.211 | -18.215 | Pass |
| NVNT | ANT1 | 802.11g | 2462.00 | 2483.728 | 1.760 | -44.543 | -18.240 | Pass |
| NVNT | ANT1 | 802.11n(HT20) | 2412.00 | 2399.824 | -8.826 | -44.159 | -28.826 | Pass |
| NVNT | ANT1 | 802.11n(HT20) | 2462.00 | 2484.160 | -8.300 | -57.609 | -28.300 | Pass |



2_Bandedge_NVNT_ANT1_802_11b_2412



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V1.0





2_Bandedge_NVNT_ANT1_802_11b_2462



Report No.: DACE250528017RL001

1_Reference_Level_NVNT_ANT1_802_11g_2412



2_Bandedge_NVNT_ANT1_802_11g_2412



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1_Reference_Level_NVNT_ANT1_802_11g_2462



2_Bandedge_NVNT_ANT1_802_11g_2462



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V1.0



4



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2_Bandedge_NVNT_ANT1_802_11n(HT20)_2412

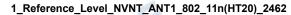


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V1.0



4



Report No.: DACE250528017RL001



2_Bandedge_NVNT_ANT1_802_11n(HT20)_2462



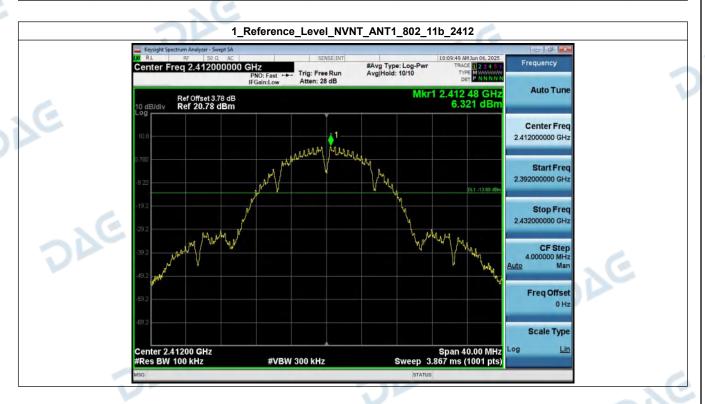
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7. Spurious Emission

| Condition | Antenna | Modulation | TX_Frequency (MHz) | Max. Mark_freq(MHz) | Ref_level(dBm) | Spurious level(dBm) | limit(dBm) | Result |
|-----------|---------|---------------|-----------------------|------------------------|----------------|------------------------|------------|--------|
| NVNT | ANT1 | 802.11b | 2412.00 | 24977.527 | 6.321 | -42.034 | -13.679 | Pass |
| NVNT | ANT1 | 802.11b | 2437.00 | 24962.545 | 6.315 | -41.446 | -13.685 | Pass |
| NVNT | ANT1 | 802.11b | 2462.00 | 24980.024 | 7.271 | -35.829 | -12.729 | Pass |
| NVNT | ANT1 | 802.11g | 2412.00 | 24950.060 | 1.785 | -45.228 | -18.215 | Pass |
| NVNT | ANT1 | 802.11g | 2437.00 | 24965.042 | 1.124 | -41.367 | -18.876 | Pass |
| NVNT | ANT1 | 802.11g | 2462.00 | 24985.018 | 1.760 | -41.803 | -18.240 | Pass |
| NVNT | ANT1 | 802.11n(HT20) | 2412.00 | 24957.551 | -8.826 | -58.060 | -28.826 | Pass |
| NVNT | ANT1 | 802.11n(HT20) | 2437.00 | 24942.569 | -8.272 | -51.900 | -28.272 | Pass |
| NVNT | ANT1 | 802.11n(HT20) | 2462.00 | 24528.067 | -8.300 | -52.134 | -28.300 | Pass |

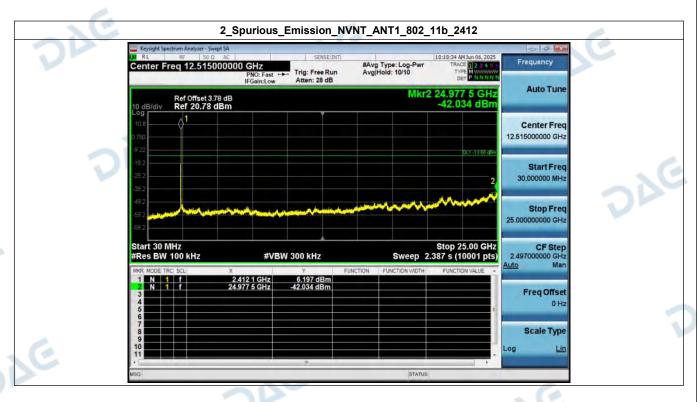
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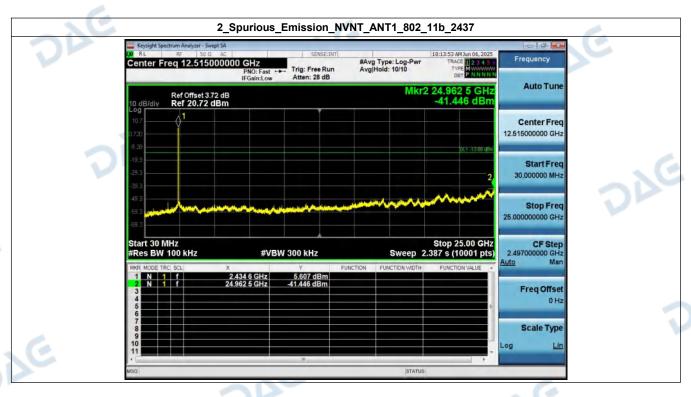


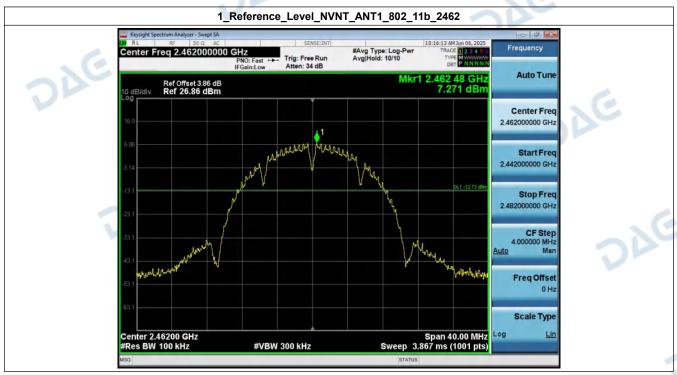




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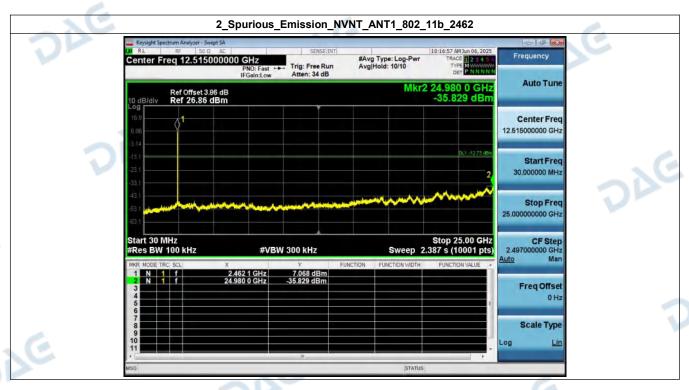




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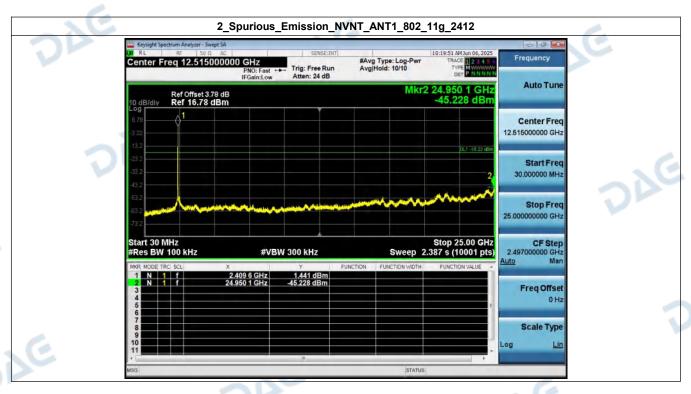
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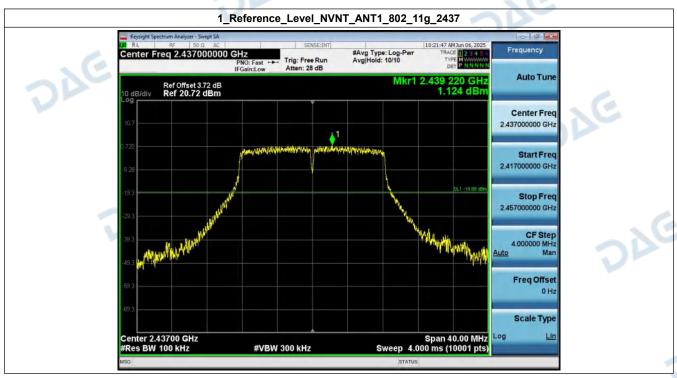






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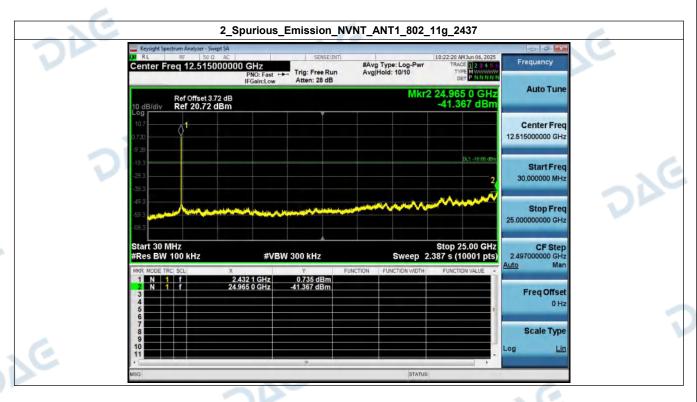






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V1.0

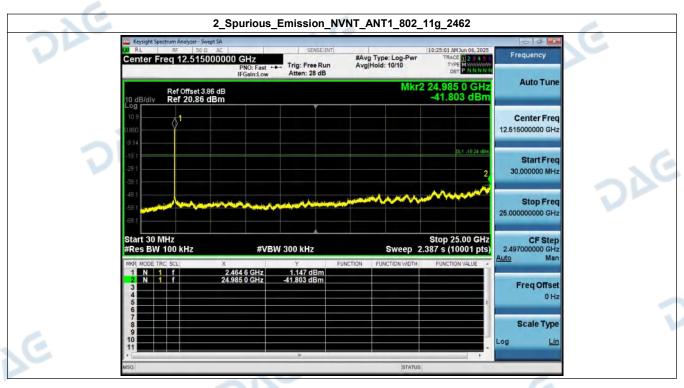


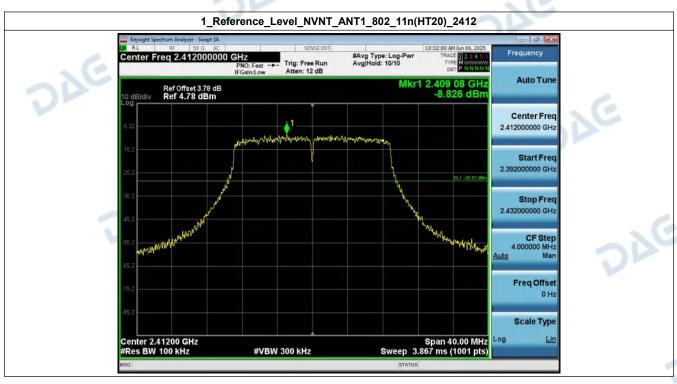


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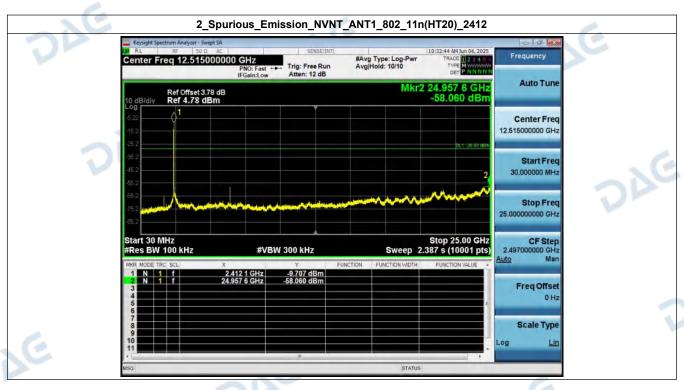
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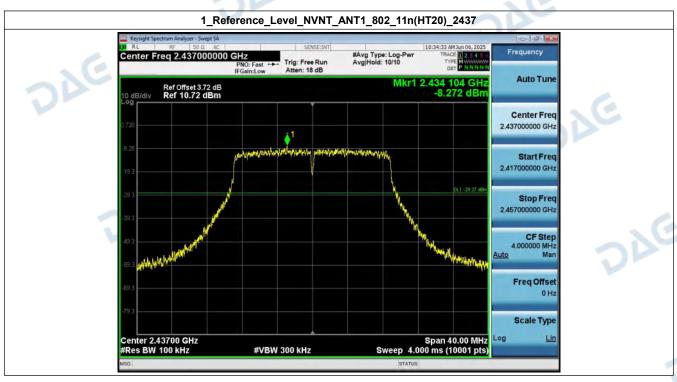






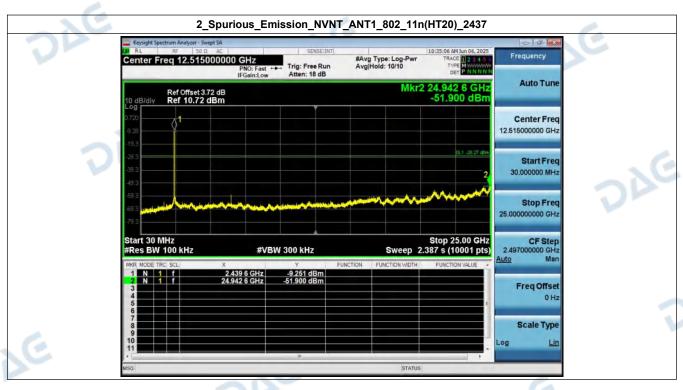
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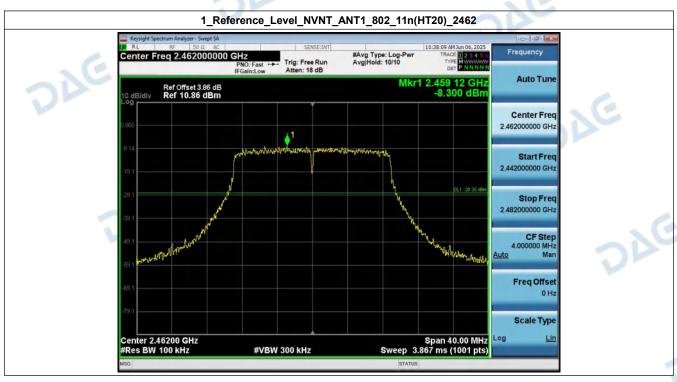






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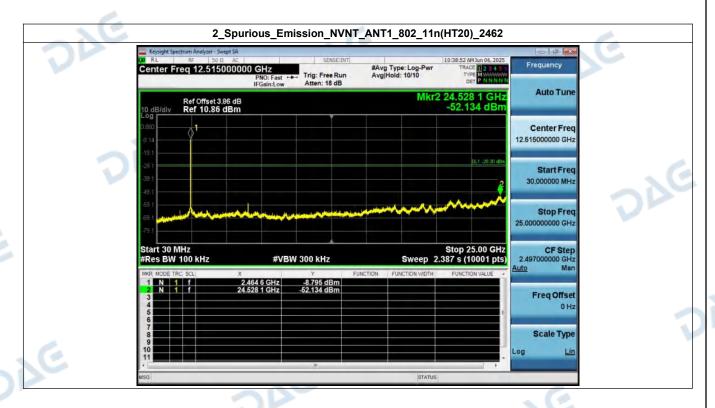
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