

Test Report

Report No. : MTi250219007-0803E1

Date of issue : 2025-03-25

Applicant : OXAA Corp.

Product : 4- in- 1 Foldable Wireless Charging Power Bank

Model(s) : OXWC1351, OXWC2351

FCC ID : 2BNYA-OXWC1351

Shenzhen Microtest Co., Ltd.



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| Test Result Certific | cation | | | | | |
|-------------------------|--|---|----------------------------------|--|--|--|
| Applicant | OXAA Co | rp. | | | | |
| Applicant Address | 6-3545 Oc | dyssey Dr, Mississauga, ON L5 | SM 2S4, Canada | | | |
| Manufacturer | OXAA Coi | rp. | | | | |
| Manufacturer Address | 6-3545 Odyssey Dr, Mississauga, ON L5M 2S4, Canada | | | | | |
| Factory | Shenzhen | Shenzhen Aodehong Electronic Technology Co.,Ltd. | | | | |
| Factory Address | | Elegant Industrial Park, No.8 L nggang District, Shenzhen,Chin | | | | |
| Product description | on | | | | | |
| Product name | 4- in- 1 Fc | oldable Wireless Charging Pow | er Bank | | | |
| Trademark | OXAA | | | | | |
| Model name | OXWC13 | 51 | | | | |
| Series Model(s) | OXWC23 | 51 | test | | | |
| Standards | 47 CFR P | art 15C | Mici | | | |
| Test Method | ANSI C63 | .10-2013 | | | | |
| Testing Informatio | n | A. | | | | |
| Date of test | 2025-02-2 | 25 to 2025-03-21 | | | | |
| Test result | Pass | PANCIO | | | | |
| Prepared I | oy: | Yanice.Xie | Yanice Xie | | | |
| Reviewed | by: | David Lee | David. Lee | | | |
| Approved | by: | Lewis Lian | Yanice Xie Dowid. Lee Lewis lian | | | |



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1 General Description

1.1 Description of the EUT

| 4- in- 1 Foldable Wireless Charging Power Bank OXWC1351 OXWC2351 All the models are the same circuit and module, except the model name and color. |
|--|
| OXWC2351 All the models are the same circuit and module, except the model |
| All the models are the same circuit and module, except the model |
| |
| name and color. |
| Input:QC/PD 18W Min Type-C Battery Capacity:8000mAh Output:5W/7.5W/10W(Smart Phone) Output:5W(Earbuds) Output:2W(Smart Watch) |
| Cable: Type-C to Type-C 1.2m*1 |
| 1.0 |
| 1.0 |
| MTi250219007-08-R001 |
| |
| Coil 1:115-205kHz Coil 2:115-205kHz Coil 3:300-350kHz |
| ASK |
| Coil |
| |

1.2 Description of test modes

| No. | Emission test modes | | |
|-------------------------------------|---|--|--|
| Mode1 | Wireless output(5W)+Earbuds(5W)+Watch(2W) | | |
| Mode2 | Wireless output(7.5W)+Earbuds(5W)+Watch(2W) | | |
| Mode3 | Wireless output(10W)+Earbuds(5W)+Watch(2W) | | |
| Mode4 | Charing+Wireless output(5W)+Earbuds(5W) | | |
| Mode5 | Charing+Wireless output(5W)+Watch(2W) | | |
| Mode6 | Charing+Wireless output Earbuds(5W)+Watch(2W) | | |
| Mode7 | Charing+Wireless output(5W) | | |
| Mode8 | Charing+Wireless output(7.5W) | | |
| Mode9 | Charing+Wireless output(10W) | | |
| Mode10 | Charing+Wireless Watch(2W) | | |
| Mode11 Charing+Wireless Earbuds(5W) | | | |
| Mode12 | Standby | | |



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1.3 Environmental Conditions

During the measurement the environmental conditions were within the listed ranges:

| Temperature: | 15°C ~ 35°C |
|-----------------------|------------------|
| Humidity: | 20% RH ~ 75% RH |
| Atmospheric pressure: | 98 kPa ~ 101 kPa |

1.4 Description of support units

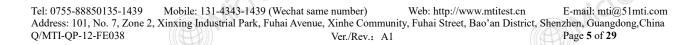
The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

| Support equipment list | | | NiCTO'S |
|-----------------------------|----------------|----------------|--------------|
| Description | Model | Serial No. | Manufacturer |
| iWatch | Apple Watch SE | FH7PP6BAG91J6 | Apple |
| HUAWEI QUICK CHARGE(65W) | HW-200200ZP1 | JN67LSN7N03451 | HUAWEI |
| wireless charging load | YBZ1.1 | rest 1 | YBZ |
| Air Pods | MQD83CH/A | | Apple |
| Support cable list | | | |
| Description | Length (m) | From | То |
| 1 | 1 | 1 | 1.05 |

1.5 Measurement uncertainty

| Measurement | Uncertainty |
|--|-------------|
| Conducted emissions (AMN 150kHz~30MHz) | ±3.1dB |
| Occupied channel bandwidth | ±3 % |
| Radiated spurious emissions (9kHz~30MHz) | ±4.3dB |
| Radiated spurious emissions (30MHz~1GHz) | ±4.7dB |
| Temperature | ±1 °C |
| Humidity | ± 5 % |

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





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2 Summary of Test Result

| No. | Item | Requirement | Result |
|-----|---|-----------------------|--------|
| 1 | Antenna requirement | 47 CFR Part 15.203 | Pass |
| 2 | Conducted Emission at AC power line | 47 CFR Part 15.207(a) | Pass |
| 3 | 20dB Occupied Bandwidth | 47 CFR Part 15.215(c) | Pass |
| 4 | Emissions in frequency bands (below 30MHz) | 47 CFR Part 15.209 | Pass |
| 5 | Emissions in frequency bands (30MHz - 1GHz) | 47 CFR Part 15.209 | Pass |



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3 Test Facilities and accreditations

3.1 Test laboratory

| Test laboratory: | Shenzhen Microtest Co., Ltd. |
|------------------------|--|
| Test site location: | 101, No.7, Zone 2, Xinxing Industrial Park, Fuhai Avenue, Xinhe Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China |
| Telephone: | (86-755)88850135 |
| Fax: | (86-755)88850136 |
| CNAS Registration No.: | CNAS L5868 |
| FCC Registration No.: | 448573 |
| IC Registration No.: | 21760 |
| CABID: | CN0093 |
| Nu. | Microtest |



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4 List of test equipment

| No. | Equipment | Manufacturer | Model | Serial No. | Cal. date | Cal. Due |
|------|--|----------------------|-----------------|----------------|----------------|----------------|
| ri C | COL | Conducted Emiss | ion at AC power | line | | |
| 1 | EMI Test Receiver | Rohde&schwarz | ESCI3 | 101368 | 2024-03- 20 | 2025-03- 19 |
| 2 | Artificial mains network | Schwarzbeck | NSLK 8127 | 183 | 2024-03- 21 | 2025-03- 20 |
| 3 | Artificial Mains Network | Rohde & Schwarz | ESH2-Z5 | 100263 | 2024-03- 20 | 2025-03- 19 |
| | | 20dB Occup | ied Bandwidth | | , K | CLO |
| 1 | Wideband Radio Communication Tester | Rohde&schwarz | CMW500 | 149155 | 2024-03- 20 | 2025-03- 19 |
| 2 | ESG Series Analog Ssignal Generator | Agilent | E4421B | GB400512 40 | 2024-03- 21 | 2025-03- 20 |
| 3 | PXA Signal Analyzer | Agilent | N9030A | MY513502 96 | 2024-03- 21 | 2025-03- 20 |
| 4 | Synthesized Sweeper | Agilent | 83752A | 3610A019 57 | 2024-03- 21 | 2025-03- 20 |
| 5 | MXA Signal Analyzer | Agilent | N9020A | MY501434 83 | 2024-03- 21 | 2025-03 20 |
| 6 | RF Control Unit | Tonscend | JS0806-1 | 19D80601 52 | 2024-03- 21 | 2025-03 20 |
| 7 | Band Reject Filter Group | Tonscend | JS0806-F | 19D80601 60 | 2024-03- 21 | 2025-03 20 |
| 8 | ESG Vector Signal Generator | Agilent | N5182A | MY501437 62 | 2024-03- 20 | 2025-03 19 |
| 9 | DC Power Supply | Agilent | E3632A | MY400276 95 | 2024-03- 21 | 2025-03 20 |
| | En En | nissions in frequenc | y bands (below | 30MHz) | 3 | |
| 1 | EMI Test Receiver | Rohde&schwarz | ESCI7 | 101166 | 2024-03- 20 | 2025-03- 19 |
| 2 | Active Loop Antenna | Schwarzbeck | FMZB 1519 B | 00066 | 2024-03- 23 | 2025-03 22 |
| 3 | Amplifier | Hewlett-Packard | 8447F | 3113A0618 4 | 2024-03- 20 | 2025-03 19 |
| | Em | issions in frequency | y bands (30MHz | - 1GHz) | | |
| 1 | EMI Test Receiver | Rohde&schwarz | ESCI7 | 101166 | 2024-03- 20 | 2025-03 19 |
| 2 | TRILOG Broadband Antenna | schwarabeck | VULB 9163 | 9163-1338 | 2023-06-11 | 2025-06 10 |
| 3 | Active Loop Antenna | Schwarzbeck | FMZB 1519 B | 00066 | 2024-03- 23 | 2025-03 22 |
| 4 | Amplifier | Hewlett-Packard | 8447F | 3113A0618 4 | 2024-03- 20 | 2025-03 19 |



| No. | Equipment | Manufacturer | Model | Serial No. | Cal. date | Cal. Du |
|-----|--|----------------------|-----------------|----------------|----------------|---------------|
| | rest | Conducted Emiss | ion at AC power | line | | |
| 10 | EMI Test Receiver | Rohde&schwarz | ESCI3 | 101368 | 2025-03- 14 | 2026-03 13 |
| 2 | Artificial mains network | Schwarzbeck | NSLK 8127 | 183 | 2025-03- 18 | 2026-03 17 |
| 3 | Artificial Mains Network | Rohde & Schwarz | ESH2-Z5 | 100263 | 2025-03- 18 | 2026-03 17 |
| | | 20dB Occup | ied Bandwidth | | | |
| 1 | Wideband Radio Communication Tester | Rohde&schwarz | CMW500 | 149155 | 2025-03- 18 | 2026-03 17 |
| 2 | ESG Series Analog Ssignal Generator | Agilent | E4421B | GB400512 40 | 2025-03- 14 | 2026-03 13 |
| 3 | PXA Signal Analyzer | Agilent | N9030A | MY513502 96 | 2025-03- 14 | 2026-0 13 |
| 4 | Synthesized Sweeper | Agilent | 83752A | 3610A019 57 | 2025-03- 14 | 2026-0 13 |
| 5 | MXA Signal Analyzer | Agilent | N9020A | MY501434 83 | 2025-03- 14 | 2026-0 13 |
| 6 | RF Control Unit | Tonscend | JS0806-1 | 19D80601 52 | 2025-03- 18 | 2026-0 17 |
| 7 | Band Reject Filter Group | Tonscend | JS0806-F | 19D80601 60 | 2025-03- 14 | 2026-0 13 |
| 8 | ESG Vector Signal Generator | Agilent | N5182A | MY501437 62 | 2025-03- 14 | 2026-0 13 |
| 9 | DC Power Supply | Agilent | E3632A | MY400276 95 | 2025-03- 18 | 2026-0 17 |
| | En | nissions in frequenc | y bands (below | 30MHz) | "CLO | |
| 1 | EMI Test Receiver | Rohde&schwarz | ESCI7 | 101166 | 2025-03- 14 | 2026-0 13 |
| 2 | Active Loop Antenna | Schwarzbeck | FMZB 1519 B | 00066 | 2024-03- 23 | 2026-0 22 |
| 3 | Amplifier | Hewlett-Packard | 8447F | 3113A0618 4 | 2025-03- 18 | 2026-0 17 |
| | Em | issions in frequency | y bands (30MHz | - 1GHz) | | |
| 1 | EMI Test Receiver | Rohde&schwarz | ESCI7 | 101166 | 2025-03- 14 | 2026-0 13 |
| 2 | TRILOG Broadband Antenna | schwarabeck | VULB 9163 | 9163-1338 | 2025-05- 23 | 2027-0 22 |
| 3 | Active Loop Antenna | Schwarzbeck | FMZB 1519 B | 00066 | 2024-03- 23 | 2026-0 22 |
| 4 | Amplifier | Hewlett-Packard | 8447F | 3113A0618 4 | 2025-03- 18 | 2026-0 17 |
| Mic | Milphile | | | | | |



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5 Evaluation Results (Evaluation)

5.1 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.

5.1.1 Conclusion:

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The antenna of the EUT is permanently attached.

The EUT complies with the requirement of FCC PART 15.203.



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6 Radio Spectrum Matter Test Results (RF)

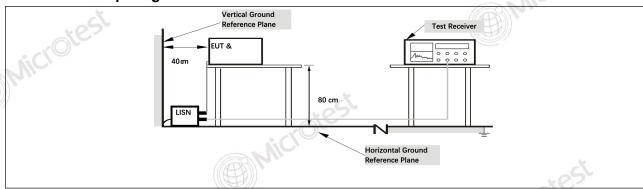
6.1 Conducted Emission at AC power line

| Test Requirement: | 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 | | | |
| · est | *Decreases with the logarithm of | the frequency. | | | | |
| Test Method: | ANSI C63.10-2013 section 6.2 | | | | | |
| Procedure: | Refer to ANSI C63.10-2013 section 6.2, standard test method for ac power-line conducted emissions from unlicensed wireless devices | | | | | |

6.1.1 E.U.T. Operation:

| Operating Environment: | | | | | | | |
|------------------------|--|--|-----------|------------------------------|---------------------------------------|--------------|--|
| Temperature: | e: 22.3 °C | | Humidity: | 55 % | Atmospheric Pressure: | 100 kPa | |
| Pre test mode: | Mode4, Mode5, Mode6, Mode7, Mode8, Mode9, Mode10, Mode11, Mode12 | | | | | | |
| Final test mode. | | | | pre-test mode is recorded in | were tested, only the data the report | of the worst | |

6.1.2 Test Setup Diagram:



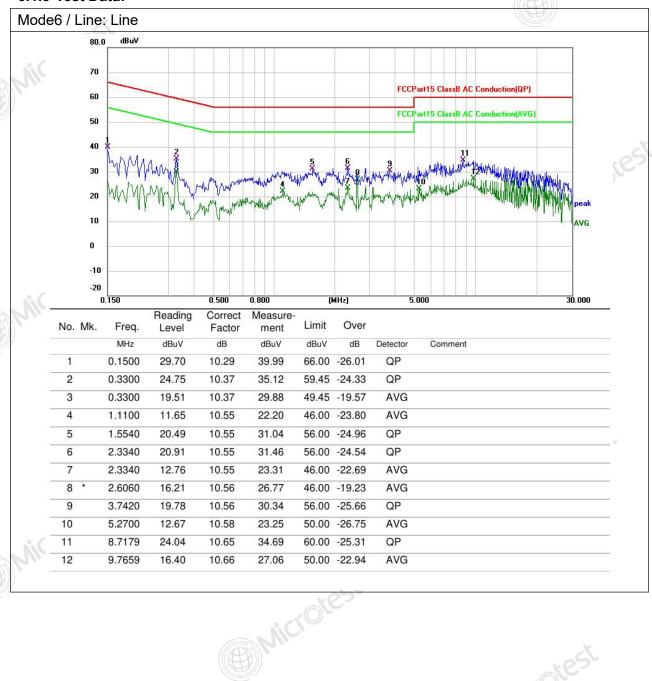


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6.1.3 Test Data:

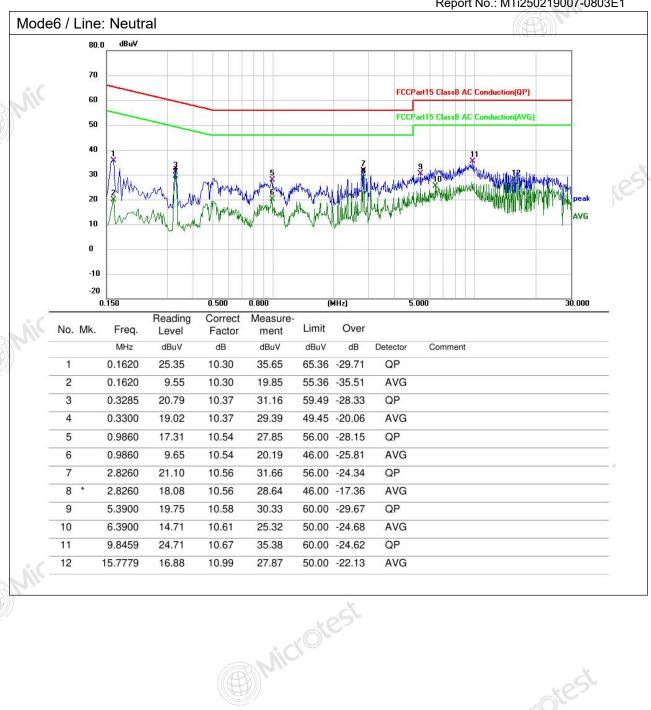




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6.2 20dB Occupied Bandwidth

| 6.2 20dB Occupie | | |
|-------------------|---|--|
| Test Requirement: | 47 CFR Part 15.215(c) | |
| Test Limit: | Refer to 47 CFR 15.215(c), intentior alternative provisions to the general 15.217 through 15.257 and in subpate to ensure that the 20 dB bandwidth bandwidth may otherwise be specific which the equipment operates, is codesignated in the rule section under | emission limits, as contained in §§ art E of this part, must be designed of the emission, or whatever ed in the specific rule section under ontained within the frequency band |
| Test Method: | ANSI C63.10-2013, section 6.9.2 | Le te |
| Procedure: | a) The spectrum analyzer center frechannel center frequency. The span spectrum analyzer shall be between b) The nominal IF filter bandwidth (3 1% to 5% of the OBW and video bar approximately three times RBW, unlapplicable requirement. | range for the EMI receiver or two times and five times the OBW. 3 dB RBW) shall be in the range of indwidth (VBW) shall be less otherwise specified by the |
| Micr | c) Set the reference level of the instraignal from exceeding the maximum operation. In general, the peak of the than [10 log (OBW/RBW)] below the is given in 4.1.5.2. d) Steps a) through c) might require specified tolerances. | n input mixer level for linear e spectral envelope shall be more e reference level. Specific guidance |
| Microtest | e) The dynamic range of the instrummore than 10 dB below the target "— the requirement calls for measuring noise floor at the selected RBW shareference value. f) Set detection mode to peak and trg) Determine the reference value: Sunmodulated carrier or modulated sit to stabilize. Set the spectrum analyzed displayed trace (this is the reference h) Determine the "—xx dB down amp xx]. Alternatively, this calculation madelta function of the instrument. i) If the reference value is determine turn the EUT modulation ON, and einew trace on the spectrum analyzer Otherwise, the trace from step g) sh | exx dB down" requirement; that is, if the -20 dB OBW, the instrument all be at least 30 dB below the exace mode to max hold. The extra to transmit an ignal, as applicable. Allow the trace exer marker to the highest level of the exalue). Solitude" using [(reference value) - by be made by using the marker- extra the device of the existing trace or start at and allow the new trace to stabilize. The allow used for step j). |
| Microtest | marker is at or slightly below the "-xx step h). If a marker is below this "-xx shall be as close as possible to this the frequency difference between th marker at the lowest frequency of th such that the marker is at or slightly determined in step h). Reset the ma | f the spectral display, such that each x dB down amplitude" determined in x dB down amplitude" value, then it value. The occupied bandwidth is e two markers. Alternatively, set a e envelope of the spectral display, below the "-xx dB down amplitude" rker-delta function and move the sion until the delta marker amplitude |



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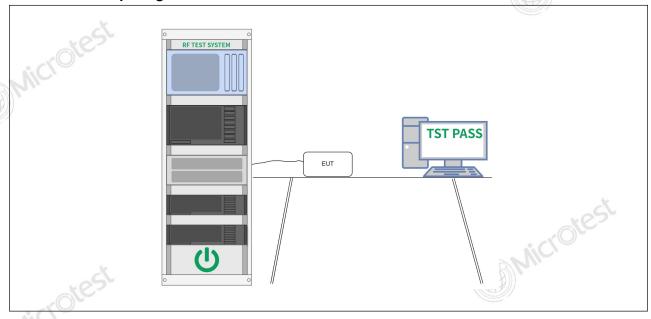
delta frequency reading at this point is the specified emission bandwidth. k) The occupied bandwidth shall be reported by providing plot(s) of the measuring instrument display; the plot axes and the scale units per division shall be clearly labeled. Tabular data may be reported in addition to the plot(s).

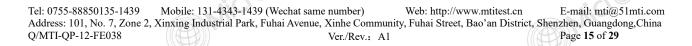
6.2.1 E.U.T. Operation:

| | Operating Environment: | | | | | | | |
|------------------|------------------------|---------|--|---|------|--|---------|--|
| | Temperature: | 22.5 °C | | Humidity: | 57 % | Atmospheric Pressure: | 101 kPa | |
| | Pre test mode: | | | Mode1, Mode2, Mode3, Mode4, Mode5, Mode6, Mode7, Mode8, Mode9, Mode10, Mode11, Mode12 | | | | |
| Final test mode: | | | | | | were tested, only the data e11) is recorded in the repo | | |

6.2.2 Test Setup Diagram:

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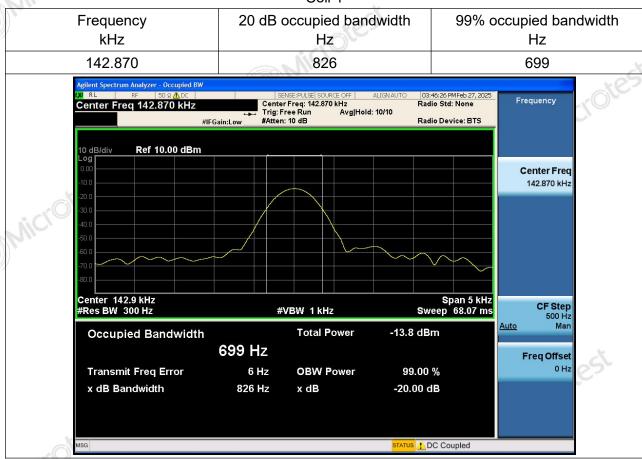
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6.2.3 Test Data:

Note: Because the measured signal is CW-like, adjusting the RBW per C63.10 would not be practical since measurement bandwidth will always follow the RBW. The RBW is set to 300 Hz to perform the occupied bandwidth test.

Coil 1





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Note: Because the measured signal is CW-like, adjusting the RBW per C63.10 would not be practical since measurement bandwidth will always follow the RBW. The RBW is set to 300 Hz to perform the occupied bandwidth test.

Coil 3



1 DC Coupled

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Note: Because the measured signal is CW-like, adjusting the RBW per C63.10 would not be practical since measurement bandwidth will always follow the RBW. The RBW is set to 300 Hz to perform the occupied bandwidth test.

Coil 2



! DC Coupled

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6.3 Emissions in frequency bands (below 30MHz)

| Test Requirement: | 47 CFR Part 15.209 | | |
|-------------------|--|--|---|
| Test Limit: | Frequency (MHz) | Field strength (microvolts/meter) | Measuremen t 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 |
| Microtest | In the emission table at The emission limits sho | this part, e.g., §§ 15.231 and pove, the tighter limit applies wn in the above table are based on the control of the control o | at the band edges. |
| atest | frequency bands 9–90 I Radiated emission limit measurements employi As shown in § 15.35(b) strength limits in paragr average limits. Howeve not exceed the maximu more than 20 dB under operation under paragra | ng a CISPR quasi-peak detector, 110–490 kHz and aboves in these three bands are bing an average detector. For frequencies above 1000 aphs (a) and (b) of this section, the peak field strength of a minimal permitted average limits any condition of modulation aph (b) of this section, the penillivolts/meter at 3 meters a | e 1000 MHz. ased on MHz, the field on are based on any emission shall specified above by . For point-to-point ask field strength |
| Test Method: | frequency bands 9–90 I Radiated emission limit measurements employi As shown in § 15.35(b) strength limits in paragr average limits. Howeve not exceed the maximu more than 20 dB under operation under paragra shall not exceed 2500 r | kHz, 110–490 kHz and aboves in these three bands are bing an average detector. For frequencies above 1000 aphs (a) and (b) of this section, the peak field strength of a minimum permitted average limits any condition of modulation aph (b) of this section, the pemillivolts/meter at 3 meters a | e 1000 MHz. ased on MHz, the field on are based on any emission shall specified above by . For point-to-point ask field strength |

6.3.1 E.U.T. Operation:

| Operating Environment: | | | | | | |
|------------------------|--|--|------|-----------------------|---------|--|
| Temperature: 22.5 °C | | Humidity: | 43 % | Atmospheric Pressure: | 101 kPa | |
| Pre test mode: | | Mode1, Mode2, Mode3, Mode4, Mode5, Mode6, Mode7, Mode8, Mode9, Mode10, Mode11, Mode12 | | | | |
| Final test mode: | | All of the listed pre-test mode were tested, only the data of the worst mode (Mode3) is recorded in the report | | | | |



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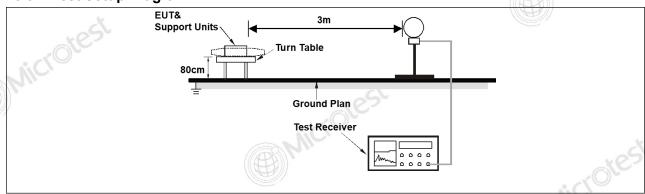
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6.3.2 Test Setup Diagram:





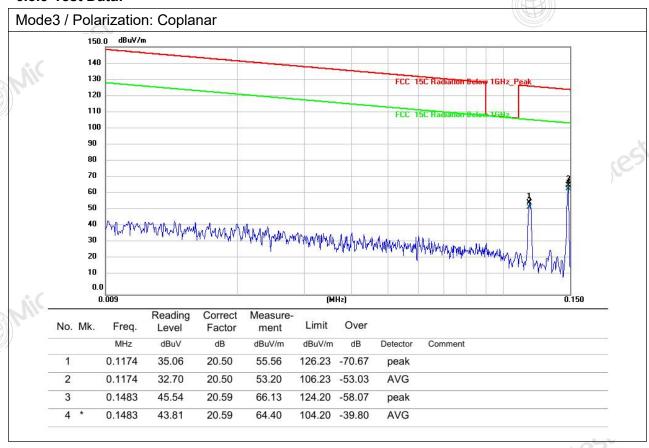
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6.3.3 Test Data:

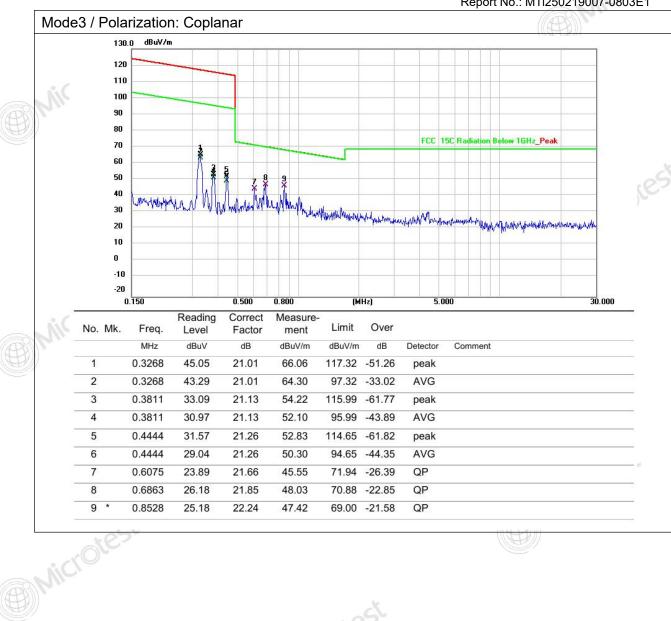




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6.4 Emissions in frequency bands (30MHz - 1GHz)

| Test Requirement: | 47 CFR Part 15.209 | | (Arrival) |
|-------------------|---|--|---|
| Test Limit: | Frequency (MHz) | Field strength (microvolts/meter) | Measuremen t 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 |
| Microtest | In the emission table a The emission limits sho measurements employ frequency bands 9–90 Radiated emission limi measurements employ As shown in § 15.35(b) strength limits in parag | this part, e.g., §§ 15.231 and bove, the tighter limit applies own in the above table are baing a CISPR quasi-peak detector, 110–490 kHz and abovets in these three bands are baing an average detector. If or frequencies above 1000 raphs (a) and (b) of this section | at the band edges. ased on ector except for the e 1000 MHz. ased on |
| atest | not exceed the maximumore than 20 dB under operation under paragr | er, the peak field strength of a um permitted average limits s any condition of modulation aph (b)of this section, the pe millivolts/meter at 3 meters a | any emission shall specified above by . For point-to-point ak field strength |
| Test Method: | not exceed the maximumore than 20 dB under operation under paragraball not exceed 2500 | er, the peak field strength of a um permitted average limits s any condition of modulation aph (b)of this section, the pe millivolts/meter at 3 meters a | any emission shall specified above by . For point-to-point ak field strength |

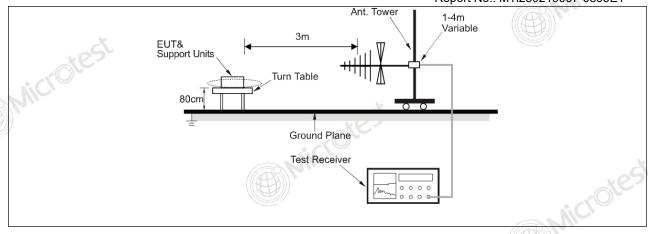
6.4.1 E.U.T. Operation:

| Operating Environment: | | | | | | |
|------------------------|--|--|-----------|------|-----------------------|---------|
| Temperature: 23 °C | | H | lumidity: | 34 % | Atmospheric Pressure: | 101 kPa |
| Pre test mode: | | Mode1, Mode2, Mode3, Mode4, Mode5, Mode6, Mode7, Mode8, Mode9, Mode10, Mode11, Mode12 | | | | |
| | | All of the listed pre-test mode were tested, only the data of the worst mode (Mode6) is recorded in the report | | | | |

6.4.2 Test Setup Diagram:



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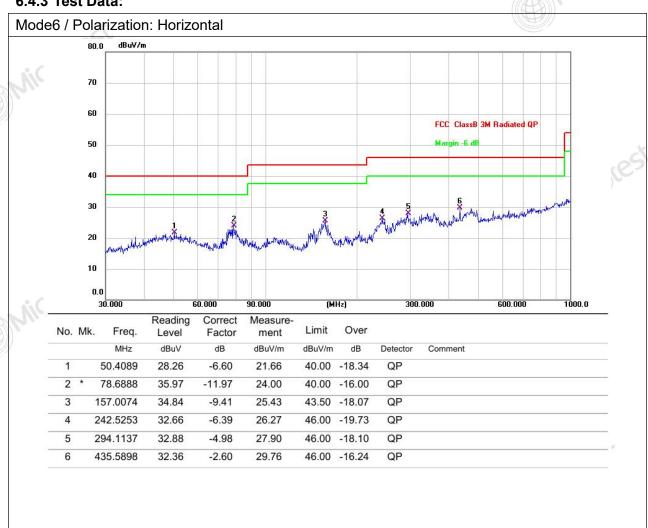


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6.4.3 Test Data:

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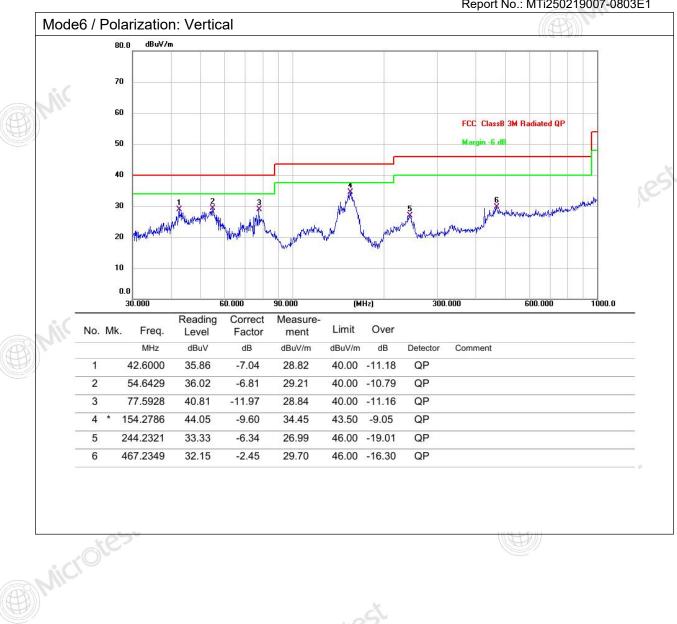


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Photographs of the test setup

Refer to Appendix - Test Setup Photos

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Photographs of the EUT

Refer to Appendix - EUT Photos

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- 2. The test results of this report are only responsible for the samples submitted. Client shall be responsible for representativeness of the sample and authenticity of the material.
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- 6. Any objection to this report shall be submitted to the laboratory within 15 days from the date of receipt of the report.