

Test Report

| Report No.: | MTi240517001-01E1 |
|----------------|---------------------------------|
| Date of issue: | 2024-05-29 |
| Applicant: | Chug, Inc. |
| Product: | 3-IN-1 COMPACT WIRELESS CHARGER |
| Model(s): | ASWC91 |
| | |

FCC ID: 2A023-ASWC91

Shenzhen Microtest Co., Ltd. http://www.mtitest.cn

The test report is only used for customer scientific research, teaching, internal quality control and other purposes, and is for internal reference only.





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| Test Result Certification | | | |
|--|---|--|--|
| Applicant: | Chug, Inc. | | |
| Address: | 7157 Shady Oak Road Eden Prairie Washington, MN 55344 United States | | |
| Manufacturer: | Chug, Inc. | | |
| Address: | 7157 Shady Oak Road Eden Prairie Washington, MN 55344 United States | | |
| Factory1: | Shenzhen Aquilstar Technology Co., Ltd. | | |
| Address: | 101 of B Building, B&C Building, No.1 Plant, Lingxia Road, Fenghuang Community, Fuyong Street, Bao'an District, Shenzhen City, China | | |
| Factory2: | AQUILSTAR TECHNOLOGY (VIET NAM) CO.,LTD | | |
| Address: Hamlet Ve, Dong Tam Commune, Ninh Giang District, Hai Duong Province, Viet Nam. | | | |
| Product description | | | |
| Product name: | 3-IN-1 COMPACT WIRELESS CHARGER | | |
| Trade mark: | N/A | | |
| Model name: | ASWC91 | | |
| Series Model(s): | N/A | | |
| Standards: | 47 CFR Part 15C | | |
| Test Method: | ANSI C63.10-2013 | | |
| Date of Test | | | |
| Date of test: | 2024-05-23 to 2024-05-25 | | |
| Test result: | Pass | | |

| Test Engineer | : | Monleen Davy |
|---------------|----|---------------|
| | | (Maleah Deng) |
| Reviewed By | •• | Dowid. Cee |
| | | (David Lee) |
| Approved By | : | leon chen |
| | | (Leon Chen) |



1 General Description

1.1 Description of the EUT

| Product name: | 3-IN-1 COMPACT WIRELESS CHARGER | |
|----------------------------|---|--|
| Model name: | ASWC91 | |
| Series Model(s): | N/A | |
| Model difference: | N/A | |
| Electrical rating: | Input: DC 5V3A, 9V3A Wireless Output: Phone: 5W,7.5W,10W; Earphone: 5W; Watch: 2.5W | |
| Accessories: | Adaptor: Model: ASPD44a-P30P20 Input: 100-240V~,50/60Hz,1.0A Output: 5.0Vdc, 3.0A / 9.0Vdc, 3.0A / 12.0Vdc, 2.5A /15.0Vdc, 2.0A / 20.0Vdc, 1.5A, PSS: 3.3-11Vdc, 2.75A 30W, Max Cable: USB-C to USB-C cable 100cm | |
| Test sample(s) number: | MTi240517001-01S1001 | |
| RF specification | | |
| Operating frequency range: | Transmitter1(Phone): 112-150Khz Transmitter2(Earphone): 112-150Khz Transmitter3(Watch): 320-330Khz | |
| Modulation type: | ASK | |
| Antenna(s) type: | Coil Antenna | |
| | | |

1.2 Description of test modes

| No. | Emission test modes |
|---|--|
| Mode1 | Wireless output(5W)+Earphone(5W)+Watch(2.5W) |
| Mode2 | Wireless output(7.5W)+Earphone(5W)+Watch(2.5W) |
| Mode3 | Wireless output(10W)+Earphone(5W)+Watch(2.5W) |
| Mode4 | Wireless output(5W)+Earphone(5W) |
| Mode5 | Wireless output(7.5W)+Earphone(5W) |
| Mode6 | Wireless output(10W)+Earphone((5W) |
| Mode7 | Wireless output(5W)+Watch(2.5W) |
| Mode8 Wireless output(7.5W)+Watch(2.5W) | |
| Mode9 | Wireless output(10W)+Watch(2.5W) |
| Mode10 | Earphone(5W)+Watch(2.5W) |
| Mode11 | Wireless output(5W) |
| Mode12 | Wireless output(7.5W) |
| Mode13 | Wireless output(10W) |
| Mode14 | Watch(2.5W) |
| Mode15 | Earphone(5W) |
| Mode16 | stand by |



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 | | | | | |
|------------------------|-------------|------------|--------------|--|--|
| Description | Model | Serial No. | Manufacturer | | |
| iwatch | iwatch S7 | M0JVGQG1VP | Apple | | |
| wireless charging load | YBZ1.1 | 1 | YBZ | | |
| airpods | airpods 3 / | | apple | | |
| Support cable list | | | | | |
| Description Length (m) | | From | То | | |
| / | / | / | 1 | | |

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.



2 Summary of Test Result

| No. | Item | Standard | Requirement | Result |
|-----|--|-----------------|-----------------------|--------|
| 1 | Antenna requirement | 47 CFR Part 15C | 47 CFR Part 15.203 | Pass |
| 2 | Conducted Emission at AC power line | 47 CFR Part 15C | 47 CFR Part 15.207(a) | Pass |
| 3 | 20dB Occupied Bandwidth | 47 CFR Part 15C | 47 CFR Part 15.215(c) | Pass |
| 4 | Emissions in frequency bands (below 30MHz) | 47 CFR Part 15C | 47 CFR Part 15.209 | Pass |
| 5 | Emissions in frequency bands (30MHz - 1GHz) | 47 CFR Part 15C | 47 CFR Part 15.209 | Pass |



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 |



4 List of test equipment

| No. | Equipment | Manufacturer | Model | Serial No. | Cal. date | Cal. Due | | |
|-------------------------------------|---|--------------------|------------------|------------|------------|------------|--|--|
| Conducted Emission 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 Oc | cupied Bandwid | th | | | | |
| 1 | Wideband Radio Communication Tester | Rohde&schwarz | CMW500 | 149155 | 2024-03-20 | 2025-03-19 | | |
| 2 | ESG Series Analog Ssignal Generator | Agilent | E4421B | GB40051240 | 2024-03-21 | 2025-03-20 | | |
| 3 | PXA Signal Analyzer | Agilent | N9030A | MY51350296 | 2024-03-21 | 2025-03-20 | | |
| 4 | Synthesized Sweeper | Agilent | 83752A | 3610A01957 | 2024-03-21 | 2025-03-20 | | |
| 5 | MXA Signal Analyzer | Agilent | N9020A | MY50143483 | 2024-03-21 | 2025-03-20 | | |
| 6 | RF Control Unit | Tonscend | JS0806-1 | 19D8060152 | 2024-03-21 | 2025-03-20 | | |
| 7 | Band Reject Filter Group | Tonscend | JS0806-F | 19D8060160 | 2024-03-21 | 2025-03-20 | | |
| 8 | ESG Vector Signal Generator | Agilent | N5182A | MY50143762 | 2024-03-20 | 2025-03-19 | | |
| 9 | DC Power Supply | Agilent | E3632A | MY40027695 | 2024-03-21 | 2025-03-20 | | |
| | | Emissions in frequ | iency bands (bel | ow 30MHz) | | | | |
| 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 | 3113A06184 | 2024-03-20 | 2025-03-19 | | |
| | Emissions in frequency 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 | 3113A06184 | 2024-03-20 | 2025-03-19 | | |



5 Evaluation Results (Evaluation)

5.1 Antenna requirement

5.1.1 Conclusion:

The antenna of the EUT is permanently attached. The EUT complies with the requirement of FCC PART 15.203.



6 Radio Spectrum Matter Test Results (RF)

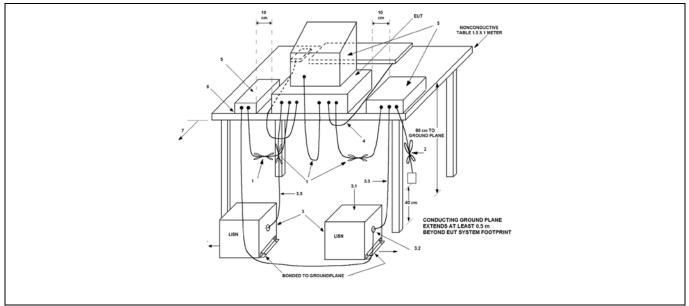
6.1 Conducted Emission at AC power line

| 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 (dBµ\ | /) | | | |
| | | 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. | | | | | |
| Test Method: | ANSI C63.10-2013 section 6.2 | | | | | |
| Procedure: | Refer to ANSI C63.10-2013 sect line conducted emissions from u | | | er- | | |

6.1.1 E.U.T. Operation:

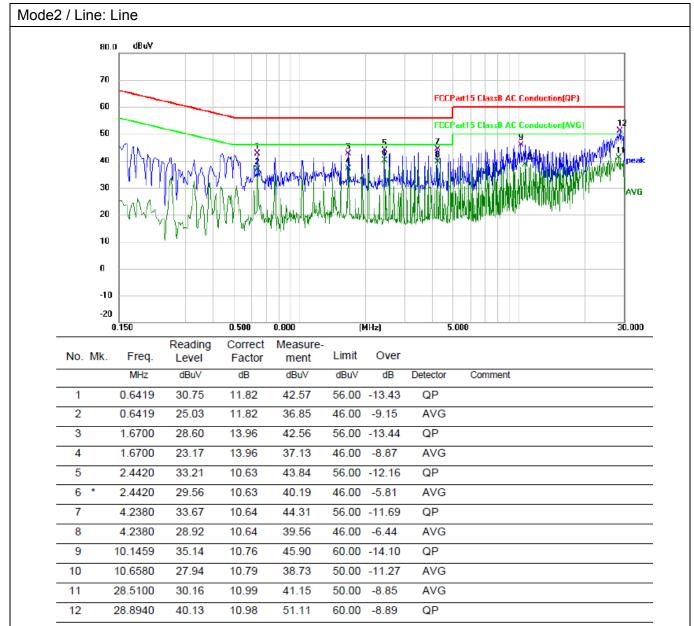
| Operating Environment: | | | | | | |
|--|---------|--|-----------|-------------------|-----------------------|---------|
| Temperature: | 25.9 °C | | Humidity: | 44 % | Atmospheric Pressure: | 101 kPa |
| Pre test mode: Mode1, Mode2, Mode3, Mode4, Mode5, Mode6, Mode7, Mode8, Mode9 Mode10, Mode11, Mode12, Mode13, Mode14, Mode15, Mode16 | | | | | | |
| Final test mode: All of the listed pre-test mode were tested, only the data of the worst mode (Mode2) is recorded in the report | | | | of the worst mode | | |

6.1.2 Test Setup Diagram:

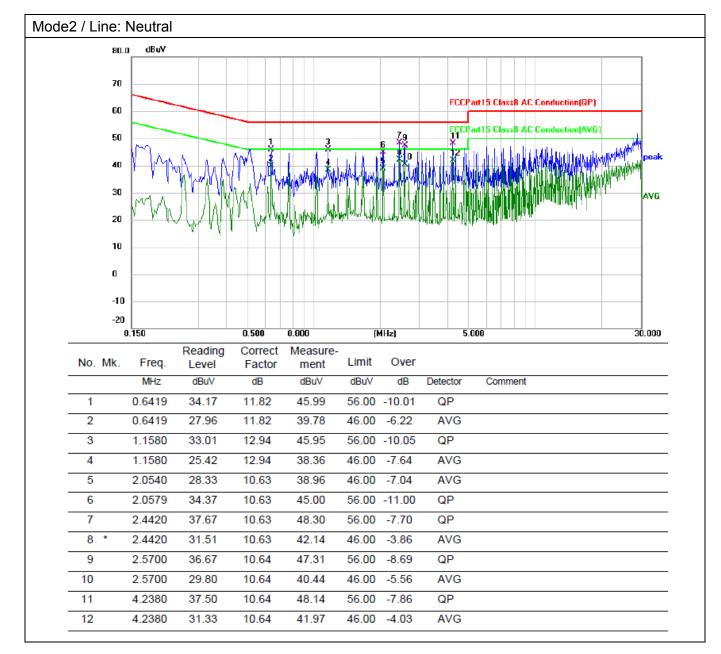




6.1.3 Test Data:









6.2 20dB Occupied Bandwidth

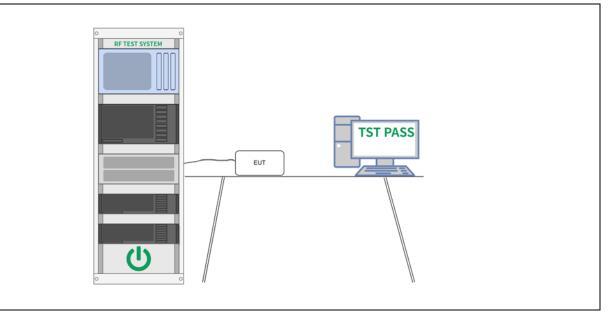
| Test Requirement: | 47 CFR Part 15.215(c) |
|-------------------|--|
| Test Limit: | Refer to 47 CFR 15.215(c), intentional radiators operating under the alternative provisions to the general emission limits, as contained in §§ 15.217 through 15.257 and in subpart E of this part, must be designed to ensure that the 20 dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equipment operates, is contained within the frequency band designated in the rule section under which the equipment is operated. |
| Test Method: | ANSI C63.10-2013, section 6.9.2 |
| Procedure: | a) The spectrum analyzer center frequency is set to the nominal EUT channel center frequency. The span range for the EMI receiver or spectrum analyzer shall be between two times and five times the OBW. b) The nominal IF filter bandwidth (3 dB RBW) shall be in the range of 1% to 5% of the OBW and video bandwidth (VBW) shall be approximately three times RBW, unless otherwise specified by the applicable requirement. c) Set the reference level of the instrument as required, keeping the signal from exceeding the maximum input mixer level for linear operation. In general, the peak of the spectral envelope shall be more than [10 log (OBW/RBW)] below the reference level. Specific guidance is given in 4.1.5.2. d) Steps a) through c) might require iteration to adjust within the specified tolerances. e) The dynamic range of the instrument at the selected RBW shall be more than 10 alb below the target "-xx dB down" requirement; that is, if the requirement calls for measuring the -20 dB OBW, the instrument noise floor at the selected RBW shall be at least 30 dB below the reference value. f) Set detection mode to peak and trace mode to max hold. g) Determine the reference value: Set the EUT to transmit an unmodulated carrier or modulated signal, as applicable. Allow the trace to stabilize. Set the spectrum analyzer marker to the highest level of the displayed trace (this is the reference value). h) Determine the "-xx dB down amplitude" using [(reference value) - xx]. Alternatively, this calculation may be made by using the marker-delta function of the instrument. i) If the reference value is determined by an unmodulated carrier, then turn the EUT modulation ON, and either clear the existing trace or stat a new trace on the spectrum analyzer marker is at or slightly below the "-xx dB down amplitude" value, then at the highest frequency of the envelope of the spectral display, such that each marker is at or slightly below the "-xx dB down amplitud |



6.2.1 E.U.T. Operation:

| Operating Environment: | | | | | | |
|--|---------|--|-----------|------|-----------------------|---------|
| Temperature: | 32.4 °C | | Humidity: | 49 % | Atmospheric Pressure: | 100 kPa |
| Pre test mode: Mode1, Mode2, Mode3, Mode4, Mode5, Mode6, Mode7, Mode8, Mode9, Mode10, Mode10, Mode11, Mode12, Mode13, Mode14, Mode15, Mode16 | | | | | | |
| Final test mode: All of the listed pre-test mode were tested, only the data of the worst mode (Mode13, Mode14, Mode15) is recorded in the report | | | | | of the worst mode | |

6.2.2 Test Setup Diagram:





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.

| Frequency | 20 dB | 20 dB occupied bandwidth | | | 99% occupied bandwid | | |
|---|--------|--------------------------|---------------------|---|----------------------------|--|--|
| kHz | | Hz | | | Hz | | |
| 130.355 | | 812 | | | 690 | | |
| Agilent Spectrum Analyzer - Occupied BW WRL RF 50 & C Center Freq 130.355 kHz #IF0 | | | Radio S d: 10/10 | 3 AM May 25, 2024 td: None evice: BTS | Frequency | | |
| 10 dB/div Ref 0.00 dBm | | | | | | | |
| Log -10.0 -20.0 -30.0 | | | | | Center Freq 130.355 kHz | | |
| -40.0 | | | | | | | |
| -60.0 | | | | | | | |
| -90.0 | | | | | | | |
| Center 130.4 kHz #Res BW 300 Hz | #V | /BW 1 kHz | | Span 5 kHz 68.07 ms | CF Step | | |
| Occupied Bandwidth | | Total Power | -12.4 dBm | Au | | | |
| | 690 Hz | | | | Freq Offset | | |
| Transmit Freq Error | -1 Hz | OBW Power | 99.00 % | | 0 Hz | | |
| x dB Bandwidth | 812 Hz | x dB | -20.00 dB | | | | |

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.

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| kHz 125.36 | Hz 815 | | | | Hz 701 |
|---|----------------------------------|------------------------------------|----------------------|--|-----------------------------|
| Agilent Spectrum Analyzer - Occupied BW RL RF 50 Ω ▲ DC Center Freq 125.360 kHz #IFG | | req: 125.360 kHz e Run Avg Hold | Radio : : 10/10 | 12 AM May 25, 2024 Std: None Device: BTS | Frequency |
| 10 dB/div Ref 0.00 dBm Log | | | | | Center Freq 125.360 kHz |
| Center 125.4 kHz #Res BW 300 Hz | #VE | 3W 1 kHz Total Power | | Span 5 kHz p 68.07 ms Au | CF Step 500 Hz to Man |
| Transmit Freq Error x dB Bandwidth | 701 Hz -7 Hz 815 Hz | OBW Power x dB | 99.00 % -20.00 dB | | Freq Offset 0 Hz |

Transmitter 2(Earphone)

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.

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| Frequency kHz | 20 dB occupied band Hz | lwidth 99% o | 99% occupied bandwidt Hz | |
|---|--|---|-----------------------------|--|
| 329.445 | 977 | | 903 | |
| Agilent Spectrum Analyzer - Occupied BW (MRL RF 50 Q ADC Center Freq 329.445 kHz #IFGa | SENSE:INT SOURCE OFF Center Freq: 329.445 kHz Trig: Free Run Avg Hol in:Low #Atten: 10 dB | ALIGNAUTO 11:04:15 AM May 25, 202 Radio Std: None d: 10/10 Radio Device: BTS | Frequency | |
| 10 dB/div Ref 0.00 dBm log | | | Center Freq 329.445 kHz | |
| Center 329.4 kHz #Res BW 300 Hz | #VBW 1 kHz Total Power | Span 5 kHz Sweep 68.07 ms -36.7 dBm | | |
| | 903 Hz | | Freq Offset | |
| Transmit Freq Error x dB Bandwidth | -22 Hz OBW Power 977 Hz x dB | 99.00 % -20.00 dB | 0 Hz | |

Transmitter 3(Watch)



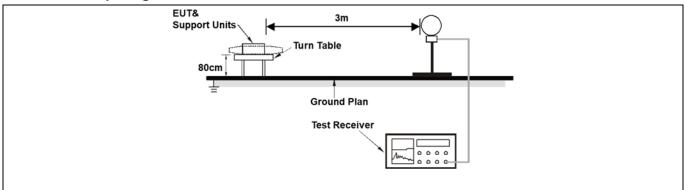
6.3 Emissions in frequency bands (below 30MHz)

| Test Requirement: | 47 CFR Part 15.209 | | | | | |
|-------------------|---|--------------------|------------|--|--|--|
| Test Limit: | Frequency (MHz) | Field strength | Measuremen | | | |
| | | (microvolts/meter) | 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 | | | |
| Test Method: | Above 9605003** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in th frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under othe sections of this part, e.g., §§ 15.231 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 measurement employing a CISPR quasi-peak detector except for the frequency bands kHz, 110–490 kHz and above 1000 MHz. Radiated emission limits in the sthree bands are based on measurements employing an average detector As shown in § 15.35(b), for frequencies above 1000 MHz, the field strengt limits in paragraphs (a)and (b)of this section are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB u any condition of modulation. For point-to-point operation under paragraph (b)of this section, the peak field strength shall not exceed 2500 millivolts/meter at 3 meters along the antenna azimuth.ANSI C63.10-2013 section 6.4 | | | | | |
| Procedure: | ANSI C63.10-2013 section | on 6.4 | | | | |

6.3.1 E.U.T. Operation:

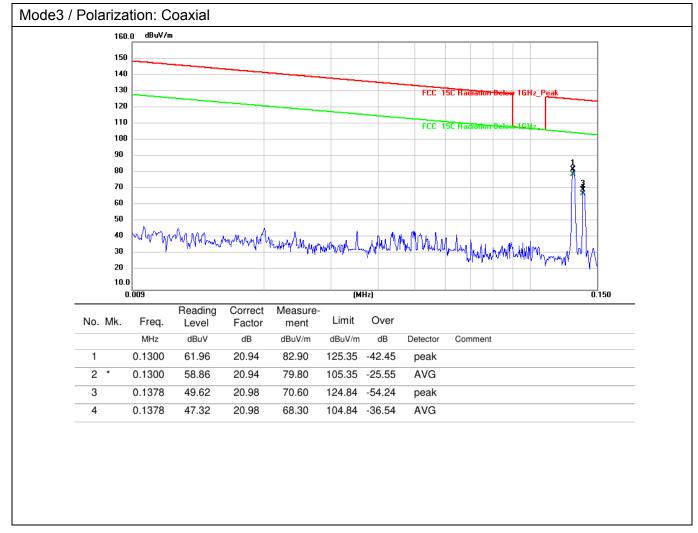
| Operating Environment: | | | | | |
|--|----------------|-----------------------|---------|--|--|
| Temperature: 22.5 °C | Humidity: 43 % | Atmospheric Pressure: | 101 kPa | | |
| Pre test mode: Mode1, Mode2, Mode3, Mode4, Mode5, Mode6, Mode7, Mode8, Mode9, Mode10, Mode10, Mode12, Mode13, Mode14, Mode15, Mode16 | | | | | |
| 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 | | | | | |

6.3.2 Test Setup Diagram:

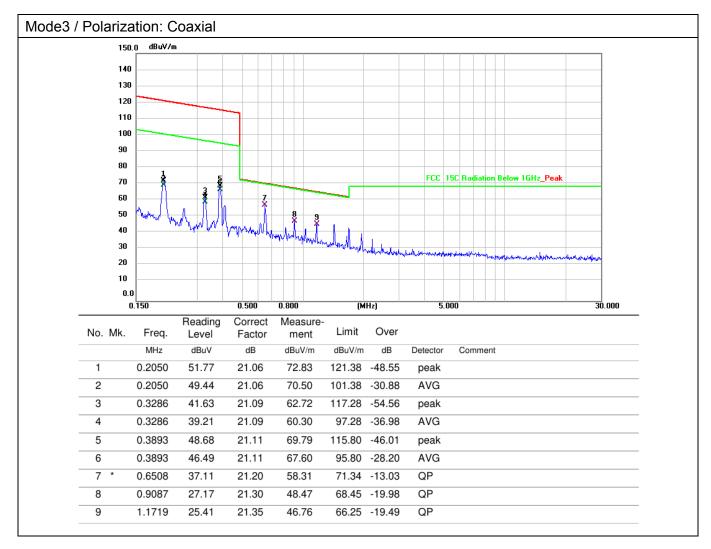




6.3.3 Test Data:









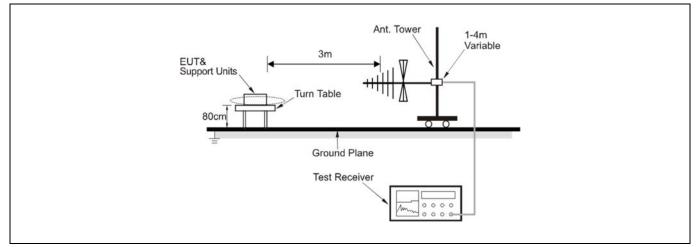
6.4 Emissions in frequency bands (30MHz - 1GHz)

| Test Requirement: | 47 CFR Part 15.209 | | | | | |
|-------------------|--|--------------------|------------|--|--|--|
| Test Limit: | Frequency (MHz) | Field strength | Measuremen | | | |
| | | (microvolts/meter) | 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 | | | |
| Test Method: | ** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under othe sections of this part, e.g., §§ 15.231 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 measurement employing a CISPR quasi-peak detector except for the frequency bands kHz, 110–490 kHz and above 1000 MHz. Radiated emission limits in the three bands are based on measurements employing an average detector As shown in § 15.35(b), for frequencies above 1000 MHz, the field strengt limits in paragraphs (a)and (b)of this section are based on average limits However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB of this section, the peak field strength shall not exceed 2500 millivolts/meter at 3 meters along the antenna azimuth. | | | | | |
| Procedure: | ANSI C63.10-2013 sec ANSI C63.10-2013 sec | | | | | |
| | ANSI C03. 10-2013 Sec | | | | | |

6.4.1 E.U.T. Operation:

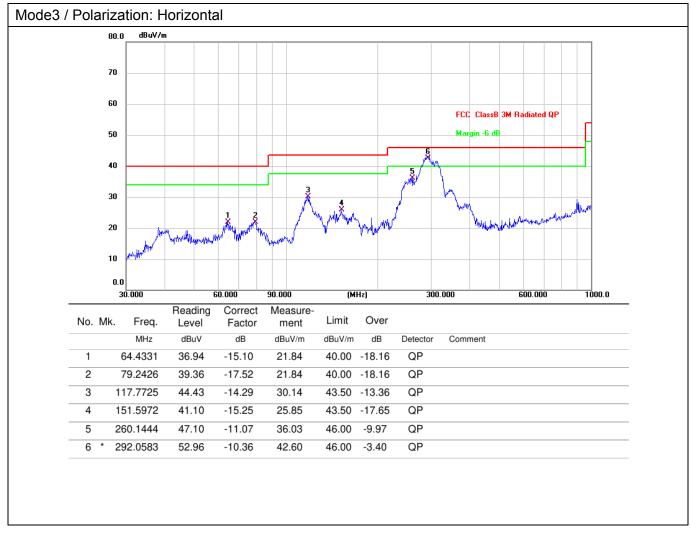
| Operating Environment: | | | | | | |
|--|---------|--|-----------|-------------------|-----------------------|---------|
| Temperature: | 22.5 °C | | Humidity: | 43 % | Atmospheric Pressure: | 101 kPa |
| Pre test mode: Mode1, Mode2, Mode3, Mode4, Mode5, Mode6, Mode7, Mode8, Mode9, Mode10, Mode10, Mode11, Mode12, Mode13, Mode14, Mode15, Mode16 | | | | | | |
| 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 | | | | of the worst mode | | |

6.4.2 Test Setup Diagram:

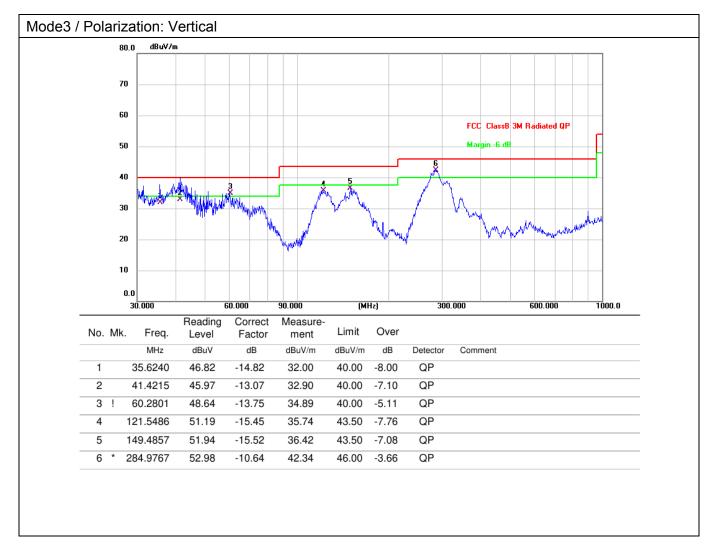




6.4.3 Test Data:









Photographs of the test setup

Refer to Appendix - Test Setup Photos



Photographs of the EUT

Refer to Appendix - EUT Photos

----End of Report----