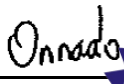




TEST REPORT

| | | |
|---|--|---|
| FCC ID..... : | 2BFEP-DBCAM4 | |
| Test Report No..... : | TCT240906E016 | |
| Date of issue..... : | Sep. 19, 2024 | |
| Testing laboratory | SHENZHEN TONGCE TESTING LAB | |
| Testing location/ address: | 2101 & 2201, Zhenchang Factory, Renshan Industrial Zone, Fuhai Subdistrict, Bao'an District, Shenzhen, Guangdong, 518103, People's Republic of China | |
| Applicant's name..... : | CONVERGE BEAUTY LIMITED | |
| Address..... : | FLAT/RM C 22/F FORD GLORY PLAZA 37 WING HONG STREET LAI CHI KOK KOWLOON HONG KONG, China | |
| Manufacturer's name ... : | EKEN INNOVATION (SHENZHEN) LIMITED | |
| Address..... : | 4F Building E, No.1 LingXia Road, FengHuang Community, FuYong Street, BaoAn District, ShenZhen, China | |
| Standard(s) | FCC CFR Title 47 Part 15 Subpart C Section 15.231 | |
| Product Name..... : | Doorbell Camera | |
| Trade Mark | N/A | |
| Model/Type reference..... : | P80, M60, M70, M80, M90, T60, T70, T80, T90, U60, U70, U80, U90, N60, N70, N80, N90, P60, P70, P90 | |
| Rating(s)..... : | Rechargeable Li-ion Battery DC 3.7V | |
| Date of receipt of test item | Sep. 06, 2024 | |
| Date (s) of performance of test..... : | Sep. 06, 2024 ~ Sep. 19, 2024 | |
| Tested by (+signature) ... : | Onnado YE |  |
| Check by (+signature).... : | Beryl ZHAO |  |
| Approved by (+signature): | Tomsin |  |

General disclaimer:

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1. General Product Information

1.1. EUT description

| | |
|-----------------------------|-------------------------------------|
| Product Name.....: | Doorbell Camera |
| Model/Type reference.....: | P80 |
| Sample Number.....: | TCT240906E007-0101 |
| Operation Frequency | 433.92MHz |
| Modulation Technology | FSK |
| Antenna Type.....: | Internal Antenna |
| Antenna Gain.....: | -1.74dBi |
| Rating(s).....: | Rechargeable Li-ion Battery DC 3.7V |

Note: The antenna gain listed in this report is provided by applicant, and the test laboratory is not responsible for this parameter.

1.2. Model(s) list

| No. | Model No. | Tested with |
|--------------|---|-------------------------------------|
| 1 | P80 | <input checked="" type="checkbox"/> |
| Other models | M60, M70, M80, M90, T60, T70, T80, T90, U60, U70, U80, U90, N60, N70, N80, N90, P60, P70, P90 | <input type="checkbox"/> |

Note: P80 is tested model, other models are derivative models. The models are identical in circuit and PCB layout, only different on the model names. So the test data of P80 can represent the remaining models.

2. Test Result Summary

| Requirement | CFR 47 Section | Result |
|--|---|--------|
| Antenna Requirement | §15.203 | PASS |
| Conduction Emission, 0.15MHz to 30MHz | §15.207 | PASS |
| Manually Activated Transmitter | §15.231(a) | PASS |
| Radiation Emission | §15.231(b), §15.205, §15.209, §15.35 | PASS |
| Occupied Bandwidth | §15.231(c) | PASS |

Note:

1. PASS: Test item meets the requirement.
2. Fail: Test item does not meet the requirement.
3. N/A: Test case does not apply to the test object.
4. The test result judgment is decided by the limit of test standard.

3. General Information

3.1. Test Environment and Mode

| Operating Environment: | | |
|--|---|-------------------|
| Condition | Conducted Emission | Radiated Emission |
| Temperature: | 23.8 °C | 22.8 °C |
| Humidity: | 53 % RH | 51 % RH |
| Test Mode: | | |
| Operation mode: | Keep the EUT in continuous transmitting with modulation | |
| <p>The sample was placed (0.8m below 1GHz, 1.5m above 1GHz) above the ground plane of 3m chamber. Measurements in both horizontal and vertical polarities were performed. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, rotating the turntable, varying antenna height from 1m to 4m in both horizontal and vertical polarizations. The emissions worst-case (Y axis) are shown in Test Results of the following pages.</p> | | |

Per-test mode.

We have verified the construction and function in typical operation, The EUT was placed on three different polar directions; i.e. X axis, Y axis, Z axis. which was shown in this test report and defined as follows:

| Axis | X | Y | Z |
|------------------------|-------|-------|-------|
| Field Strength(dBuV/m) | 52.47 | 55.31 | 52.59 |

Final Test Mode:

According to ANSI C63.10 standards, the test results are both the “worst case” and “worst setup”:
Y axis (see the test setup photo)

3.2. 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.

| Equipment | Model No. | Serial No. | FCC ID | Trade Name |
|-----------|-----------|----------------|--------|------------|
| Adapter | EP-TA200 | R37R55T6KL2SE3 | / | SAMSUNG |

Note:

1. All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.
2. Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.

4. Facilities and Accreditations

4.1. Facilities

The test facility is recognized, certified, or accredited by the following organizations:

- FCC - Registration No.: 645098

SHENZHEN TONGCE TESTING LAB.

Designation Number: CN1205

The testing lab has been registered and fully described in a report with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files.

- IC - Registration No.: 10668A

SHENZHEN TONGCE TESTING LAB

CAB identifier: CN0031

The testing lab has been registered by Innovation, Science and Economic Development Canada for radio equipment testing.

4.2. Location

SHENZHEN TONGCE TESTING LAB

Address: 2101 & 2201, Zhenchang Factory Renshan Industrial Zone, Fuhai Subdistrict, Bao'an District, Shenzhen, Guangdong, 518103, People's Republic of China

TEL: +86-755-27673339

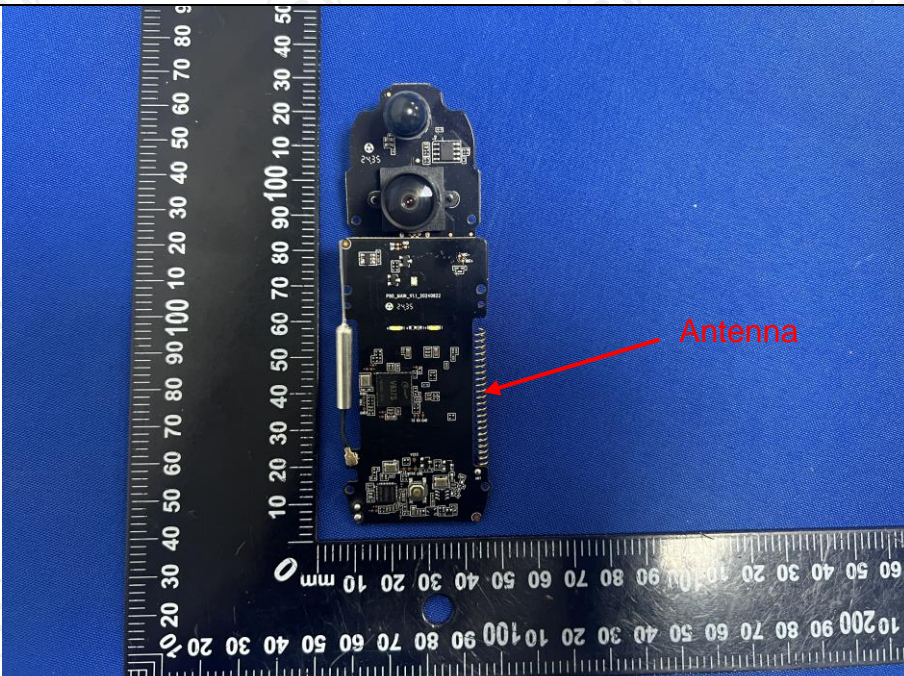
4.3. Measurement Uncertainty

The reported uncertainty of measurement $y \pm U$, where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately 95 %.

| No. | Item | MU |
|-----|---|---------------------------|
| 1 | Conducted Emission | ± 3.10 dB |
| 2 | RF power, conducted | ± 1.08 dB |
| 3 | Spurious emissions, conducted | ± 2.94 dB |
| 4 | Occupied Bandwidth | ± 0.25 KHz |
| 5 | All emissions, radiated(<1 GHz) | ± 4.56 dB |
| 6 | All emissions, radiated(1 GHz - 18 GHz) | ± 4.22 dB |
| 7 | All emissions, radiated(18 GHz- 40 GHz) | ± 4.36 dB |
| 8 | Temperature | $\pm 0.1^{\circ}\text{C}$ |
| 9 | Humidity | $\pm 1.0\%$ |

5. Test Results and Measurement Data

5.1. Antenna Requirement

| | |
|---|-----------------------------|
| Standard requirement: | FCC Part15 C Section 15.203 |
| <p>15.203 requirement: 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, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.</p> | |
| E.U.T Antenna: | |
| <p>The antenna is internal antenna which permanently attached, and the best case gain of the antenna is -1.74dBi</p> | |
|  | |

5.2. Conducted Emission

5.2.1. Test Specification

| Test Requirement: | FCC Part15 C Section 15.207 | | | | | | | | | | | | | | |
|-----------------------|--|-----------------------|--------------|--|------------|---------|----------|-----------|-----------|-------|----|----|------|----|----|
| Test Method: | ANSI C63.4:2014 | | | | | | | | | | | | | | |
| Frequency Range: | 150 kHz to 30 MHz | | | | | | | | | | | | | | |
| Receiver setup: | RBW=9 kHz, VBW=30 kHz, Sweep time=auto | | | | | | | | | | | | | | |
| Limits: | <table><tr><th rowspan="2">Frequency range (MHz)</th><th colspan="2">Limit (dBuV)</th></tr><tr><th>Quasi-peak</th><th>Average</th></tr><tr><td>0.15-0.5</td><td>66 to 56*</td><td>56 to 46*</td></tr><tr><td>0.5-5</td><td>56</td><td>46</td></tr><tr><td>5-30</td><td>60</td><td>50</td></tr></table> | Frequency range (MHz) | Limit (dBuV) | | Quasi-peak | Average | 0.15-0.5 | 66 to 56* | 56 to 46* | 0.5-5 | 56 | 46 | 5-30 | 60 | 50 |
| Frequency range (MHz) | Limit (dBuV) | | | | | | | | | | | | | | |
| | Quasi-peak | Average | | | | | | | | | | | | | |
| 0.15-0.5 | 66 to 56* | 56 to 46* | | | | | | | | | | | | | |
| 0.5-5 | 56 | 46 | | | | | | | | | | | | | |
| 5-30 | 60 | 50 | | | | | | | | | | | | | |
| Test Setup: | <div><p>Reference Plane</p><p>40cm</p><p>80cm</p><p>E.U.T.</p><p>AC power</p><p>LISN</p><p>Filter</p><p>AC power</p><p>EMI Receiver</p><p>Test table/Insulation plane</p><p>Remark: E.U.T: Equipment Under Test LISN: Line Impedance Stabilization Network Test table height=0.8m</p></div> | | | | | | | | | | | | | | |
| Test Mode: | Charging + Transmitting Mode | | | | | | | | | | | | | | |
| Test Procedure: | <ol style="list-style-type: none">1. The E.U.T and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm/50uH coupling impedance for the measuring equipment.2. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refer to the block diagram of the test setup and photographs).3. Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.4: 2014 on conducted measurement. | | | | | | | | | | | | | | |
| Test Result: | PASS | | | | | | | | | | | | | | |

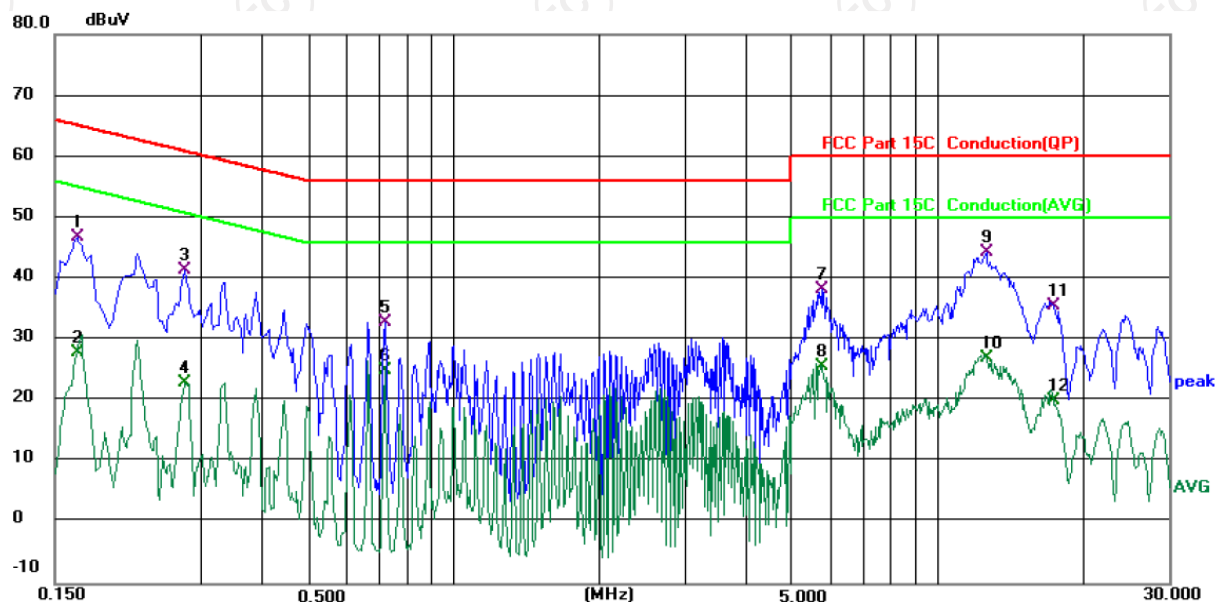
5.2.2. Test Instruments

| Conducted Emission Shielding Room Test Site (843) | | | | |
|---|--------------|-----------|---------------|-----------------|
| Equipment | Manufacturer | Model | Serial Number | Calibration Due |
| EMI Test Receiver | R&S | ESCI3 | 100898 | Jun. 26, 2025 |
| LISN | Schwarzbeck | NSLK 8126 | 8126453 | Jan. 31, 2025 |
| Attenuator | N/A | 10dB | 164080 | Jun. 26, 2025 |
| Line-5 | TCT | CE-05 | / | Jun. 26, 2025 |
| EMI Test Software | EZ_EMG | EMEC-3A1 | 1.1.4.2 | / |

5.2.1. Test data

Please refer to following diagram for individual

Conducted Emission on Line Terminal of the power line (150 kHz to 30MHz)



Site 844 Shielding Room

Phase: L1

Temperature: 23.8 (°C)

Humidity: 53 %

Limit: FCC Part 15C Conduction(QP)

Power: DC 5 V(Adapter Input AC 120 V/60 Hz)

| No. | Mk. | Freq. MHz | Reading Level dBuV | Correct Factor dB | Measure- ment dBuV | Limit dBuV | Over dB | Detector | Comment |
|-----|-----|--------------|--------------------------|-------------------------|--------------------------|---------------|------------|----------|---------|
| 1 | | 0.1660 | 37.06 | 9.66 | 46.72 | 65.16 | -18.44 | QP | |
| 2 | | 0.1660 | 18.20 | 9.66 | 27.86 | 55.16 | -27.30 | AVG | |
| 3 | | 0.2779 | 31.77 | 9.66 | 41.43 | 60.88 | -19.45 | QP | |
| 4 | | 0.2779 | 13.21 | 9.66 | 22.87 | 50.88 | -28.01 | AVG | |
| 5 | | 0.7219 | 22.42 | 10.41 | 32.83 | 56.00 | -23.17 | QP | |
| 6 | | 0.7219 | 14.52 | 10.41 | 24.93 | 46.00 | -21.07 | AVG | |
| 7 | | 5.7740 | 28.06 | 10.22 | 38.28 | 60.00 | -21.72 | QP | |
| 8 | | 5.7740 | 15.51 | 10.22 | 25.73 | 50.00 | -24.27 | AVG | |
| 9 | * | 12.5900 | 34.03 | 10.30 | 44.33 | 60.00 | -15.67 | QP | |
| 10 | | 12.5900 | 16.62 | 10.30 | 26.92 | 50.00 | -23.08 | AVG | |
| 11 | | 17.2939 | 25.22 | 10.28 | 35.50 | 60.00 | -24.50 | QP | |
| 12 | | 17.2939 | 9.66 | 10.28 | 19.94 | 50.00 | -30.06 | AVG | |

Note:

Freq. = Emission frequency in MHz

Reading level (dBuV) = Receiver reading

Corr. Factor (dB) = LISN factor + Cable loss

Measurement (dBuV) = Reading level (dBuV) + Corr. Factor (dB)

Limit (dBuV) = Limit stated in standard

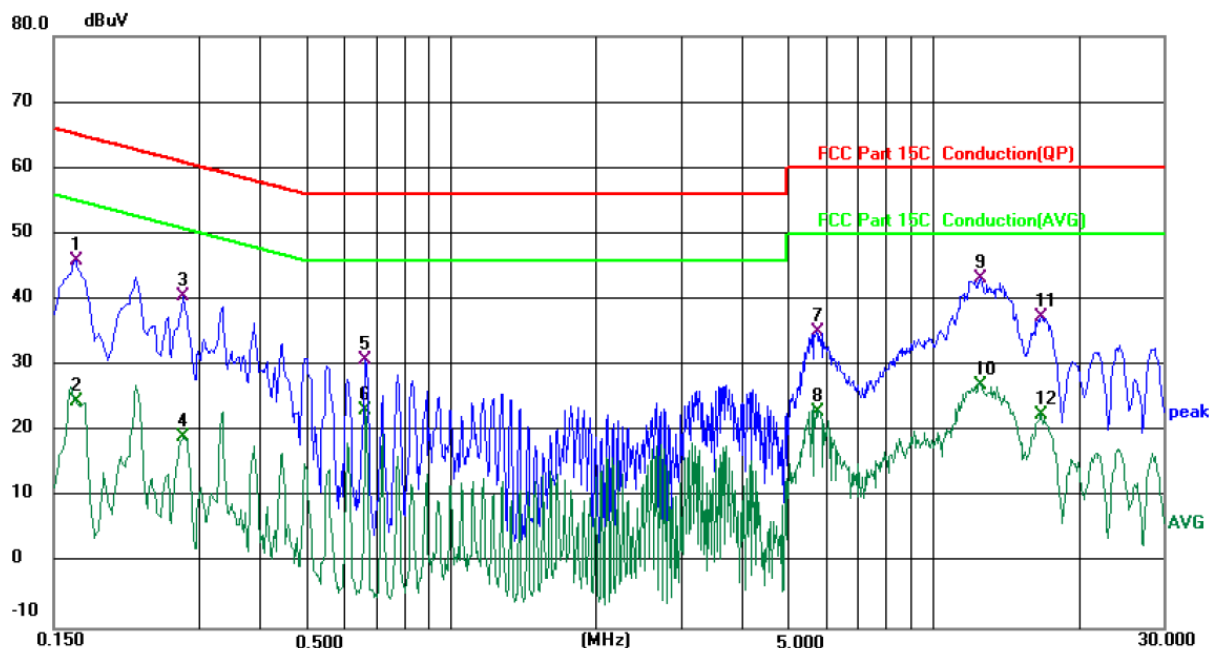
Margin (dB) = Measurement (dBuV) – Limits (dBuV)

Q.P. =Quasi-Peak

AVG =average

* is meaning the worst frequency has been tested in the frequency range 150 kHz to 30MHz

Conducted Emission on Neutral Terminal of the power line (150 kHz to 30MHz)



Site 844 Shielding Room

Phase: **N**

Temperature: 23.8 (°C)

Humidity: 53 %

Limit: FCC Part 15C Conduction(QP)

Power: DC 5 V(Adapter Input AC 120 V/60 Hz)

| No. | Mk. | Freq. MHz | Reading Level dBuV | Correct Factor dB | Measure- ment dBuV | Limit dBuV | Over dB | Detector | Comment |
|-----|-----|--------------|--------------------------|-------------------------|--------------------------|---------------|------------|----------|---------|
| 1 | | 0.1660 | 36.32 | 9.64 | 45.96 | 65.16 | -19.20 | QP | |
| 2 | | 0.1660 | 14.99 | 9.64 | 24.63 | 55.16 | -30.53 | AVG | |
| 3 | | 0.2779 | 30.96 | 9.64 | 40.60 | 60.88 | -20.28 | QP | |
| 4 | | 0.2779 | 9.53 | 9.64 | 19.17 | 50.88 | -31.71 | AVG | |
| 5 | | 0.6660 | 20.51 | 10.33 | 30.84 | 56.00 | -25.16 | QP | |
| 6 | | 0.6660 | 12.93 | 10.33 | 23.26 | 46.00 | -22.74 | AVG | |
| 7 | | 5.7180 | 24.89 | 10.15 | 35.04 | 60.00 | -24.96 | QP | |
| 8 | | 5.7180 | 12.86 | 10.15 | 23.01 | 50.00 | -26.99 | AVG | |
| 9 | * | 12.5659 | 32.83 | 10.28 | 43.11 | 60.00 | -16.89 | QP | |
| 10 | | 12.5659 | 16.67 | 10.28 | 26.95 | 50.00 | -23.05 | AVG | |
| 11 | | 16.7820 | 27.17 | 10.24 | 37.41 | 60.00 | -22.59 | QP | |
| 12 | | 16.7820 | 12.22 | 10.24 | 22.46 | 50.00 | -27.54 | AVG | |

Note:

Freq. = Emission frequency in MHz

Reading level (dBuV) = Receiver reading

Corr. Factor (dB) = LISN factor + Cable loss

Measurement (dBuV) = Reading level (dBuV) + Corr. Factor (dB)

Limit (dBuV) = Limit stated in standard

Margin (dB) = Measurement (dBuV) – Limits (dBuV)

Q.P. =Quasi-Peak

AVG =average

* is meaning the worst frequency has been tested in the frequency range 150 kHz to 30MHz.

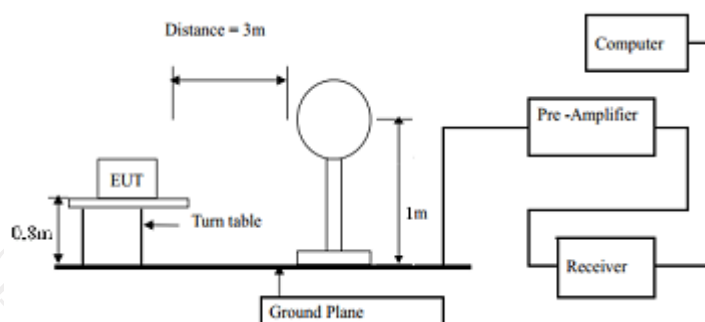
5.3. Radiated Emission Measurement

5.3.1. Test Specification

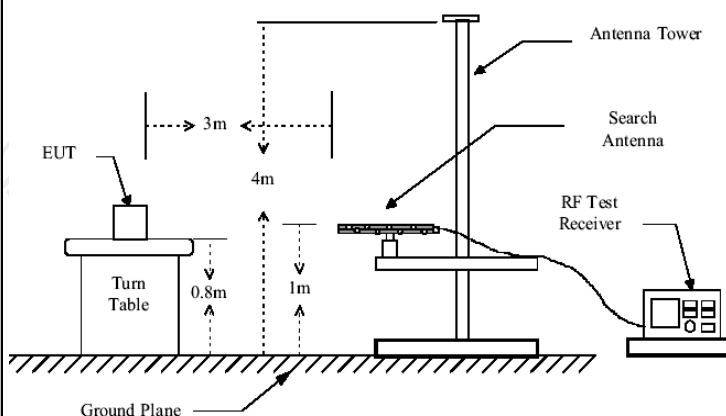
| | | | | | |
|------------------------------|---|------------|--------|--------|------------------|
| Test Requirement: | FCC Part15 C Section 15.231(a) and 15.209 | | | | |
| Test Method: | ANSI C63.4: 2014 and ANSI C63.10:2013 | | | | |
| Frequency Range: | 9 kHz to 5 GHz | | | | |
| Measurement Distance: | 3 m | | | | |
| Antenna Polarization: | Horizontal & Vertical | | | | |
| Receiver Setup: | Frequency | Detector | RBW | VBW | Remark |
| | 9kHz- 150kHz | Quasi-peak | 200Hz | 1kHz | Quasi-peak Value |
| | 150kHz- 30MHz | Quasi-peak | 9kHz | 30kHz | Quasi-peak Value |
| | 30MHz-1GHz | Quasi-peak | 120KHz | 300KHz | Quasi-peak Value |
| | Above 1GHz | Peak | 1MHz | 3MHz | Peak Value |
| | | Peak | 1MHz | 10Hz | Average Value |
| Test Procedure: | <ol style="list-style-type: none"> 1. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter camber in below 1GHz, 1.5m above the ground in above 1GHz. The table was rotated 360 degrees to determine the position of the highest radiation. 2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. 3. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement. 4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading. 5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. 6. 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 re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet. | | | | |

Test setup:

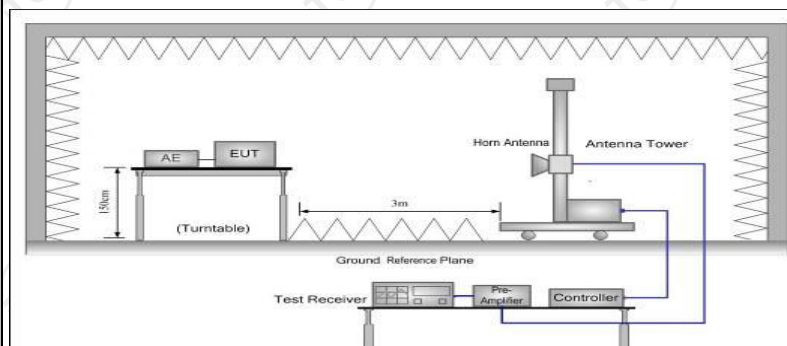
For radiated emissions below 30MHz



30MHz to 1GHz



Above 1GHz



Test Mode:

Refer to Item 3.1

Test results:

PASS

5.3.2. Limit

| Fundamental Frequency (MHz) | Filed Strength of Fundamental (microvolts/meter) | Filed Strength of Spurious Emission (microvolts/meter) |
|-----------------------------|--|--|
| 40.66-40.70 | 2250 | 225 |
| 70-130 | 1250 | 125 |
| 130-174 | 1250 to 3750* | 125 to 375* |
| 174-260 | 3750 | 375 |
| 260-470 | 3750 to 12500* | 375 to 1250* |
| Above 470 | 12500 | 1250 |
| Horn Antenna | Schwarzbeck | BBHA 9120D |

*Linear interpolations

[Where F is the frequency in MHz, the formulas for calculating the maximum permitted fundamental field strengths are as follows:

For the band 130-174 MHz, $\mu\text{V/m}$ at 3 meters = $56.81818(F) - 6136.3636$;

for the band 260-470 MHz, $\mu\text{V/m}$ at 3 meters = $41.6667(F) - 7083.3333$. The maximum permitted unwanted emission level is 20 dB below the maximum permitted fundamental level.

For EUT

| Fundamental Frequency (MHz) | Filed Strength of Fundamental (dB $\mu\text{V/m}$) | Filed Strength of Spurious Emission (dB $\mu\text{V/m}$) |
|-----------------------------|---|---|
| 433.92 | 80.83 | 60.83 |

Note:

1. Intentional radiators operating under the provisions of this Section shall demonstrate compliance with the limits on the field strength of emissions, as shown in the above table, based on the average value of the measured emissions.
2. According to 15.35, on any frequency or frequencies below or equal to 1000 MHz, the limits Shown are based on measuring equipment employing a CISPR quasi-peak detector function and related measurement bandwidths, unless otherwise specified the limit on peak radio frequency emissions is 20dB above the maximum permitted average emission limit applicable to the equipment under test.
3. According to 15.231(b), The limits on the field strength of the spurious emissions in the above table is based on the fundamental frequency of the intentional radiator. Spurious emissions shall be attenuated to the average (or, alternatively, CISPR quasi-peak) limits shown in this table or to the general limits shown in Section 15.209, whichever limit permits one higher field strength.

Frequencies in restricted band are complied to limit on Paragraph 15.209

| Frequency Range (MHz) | Distance (m) | Field strength (dBμV/m) |
|-----------------------|--------------|-------------------------------------|
| 0.009-0.490 | 3 | $20\log 2400/F \text{ (kHz)} + 80$ |
| 0.490-1.705 | 3 | $20\log 24000/F \text{ (kHz)} + 40$ |
| 1.705-30 | 3 | $20\log 30 + 40$ |
| 30-88 | 3 | 40.0 |
| 88-216 | 3 | 43.5 |
| 216-960 | 3 | 46.0 |
| Above 960 | 3 | 54.0 |

Note:

1. RF Voltage (dBuV) = $20 \log \text{ RF Voltage (uV)}$
2. In the Above Table, the tighter limit applies at the band edges.
3. Distance refers to the distance in meters between the measuring instrument antenna and the EUT
4. The radiated emissions should be tested under 3-axes position (Lying, Side, and Stand), After pre-test. It was found that the worse radiated emission was get at the lying position.
5. If measurement is made at 3m distance, then F.S Limitation at 3m distance is adjusted by using the formula $Ld1 = Ld2 * (d2/d1)$

5.3.3. Test Instruments

| Radiated Emission Test Site (966) | | | | |
|-----------------------------------|--------------|---------------|----------------|-----------------|
| Name of Equipment | Manufacturer | Model | Serial Number | Calibration Due |
| EMI Test Receiver | R&S | ESCI7 | 100529 | Jan. 31, 2025 |
| Spectrum Analyzer | R&S | FSQ40 | 200061 | Jun. 26, 2025 |
| Pre-amplifier | HP | 8447D | 2727A05017 | Jun. 26, 2025 |
| Pre-amplifier | SKET | LNPA_0118G-45 | SK2021012102 | Jan. 31, 2025 |
| Pre-amplifier | SKET | LNPA_1840G-50 | SK202109203500 | Jan. 31, 2025 |
| Loop antenna | Schwarzbeck | FMZB1519B | 00191 | Jun. 26, 2025 |
| Broadband Antenna | Schwarzbeck | VULB9163 | 340 | Jun. 28, 2025 |
| Horn Antenna | Schwarzbeck | BBHA 9120D | 631 | Jun. 28, 2025 |
| Horn Antenna | Schwarzbeck | BBHA 9170 | 00956 | Feb. 02, 2025 |
| Coaxial cable | SKET | RE-03-D | / | Jun. 26, 2025 |
| Coaxial cable | SKET | RE-03-M | / | Jun. 26, 2025 |
| Coaxial cable | SKET | RE-03-L | / | Jun. 26, 2025 |
| Coaxial cable | SKET | RE-04-D | / | Jun. 26, 2025 |
| Coaxial cable | SKET | RE-04-M | / | Jun. 26, 2025 |
| Coaxial cable | SKET | RE-04-L | / | Jun. 26, 2025 |
| Antenna Mast | Keleto | RE-AM | / | / |
| EMI Test Software | EZ EMC | FA-03A2 RE+ | 1.1.4.2 | / |

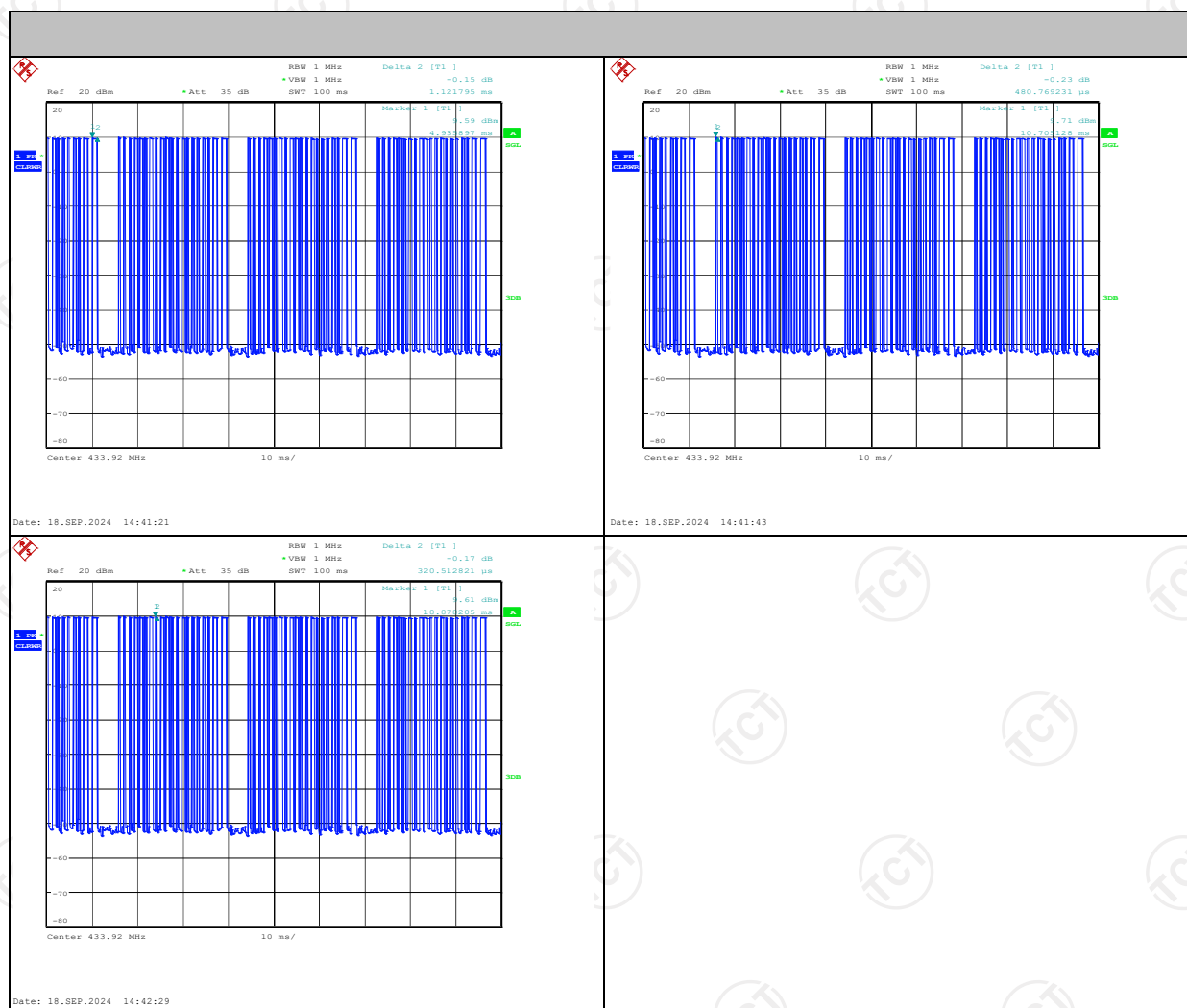
5.3.4. Test Data

Duty Cycle Test Data

433.92MHz:

| Total time (ms) | Effective time (ms) | Duty Cycle | AV Factor(dB) |
|-----------------|---------------------|------------|---------------|
| 100 | 47.84 | 0.48 | -6.38 |

Note:
 Effective time= $1.12*27+0.48*26+0.32*16=47.84\text{ms}$
 Duty Cycle= $\text{Effective time} / \text{Total time}=0.48$
 AV Factor = $20 \log(\text{Duty Cycle})= -6.38$



Field Strength of Fundamental

| Frequency (MHz) | Emission PK (dBuV/m) | Horizontal /Vertical | Limits PK (dBuV/m) | Margin (dB) |
|-----------------|----------------------|----------------------|--------------------|-------------|
| 433.92 | 68.48 | H | 100.83 | -32.35 |
| 433.92 | 67.34 | V | 100.83 | -33.49 |

| Frequency (MHz) | Emission PK (dBuV/m) | AV Factor(dB) | Horizontal /Vertical | Emission AVG (dBuV/m) | Limits AV (dBuV/m) | Margin (dB) |
|-----------------|----------------------|---------------|----------------------|-----------------------|--------------------|-------------|
| 433.92 | 68.48 | -6.38 | H | 62.10 | 80.83 | -18.73 |
| 433.92 | 67.34 | -6.38 | V | 60.96 | 80.83 | -19.87 |

Harmonics and Spurious Emissions

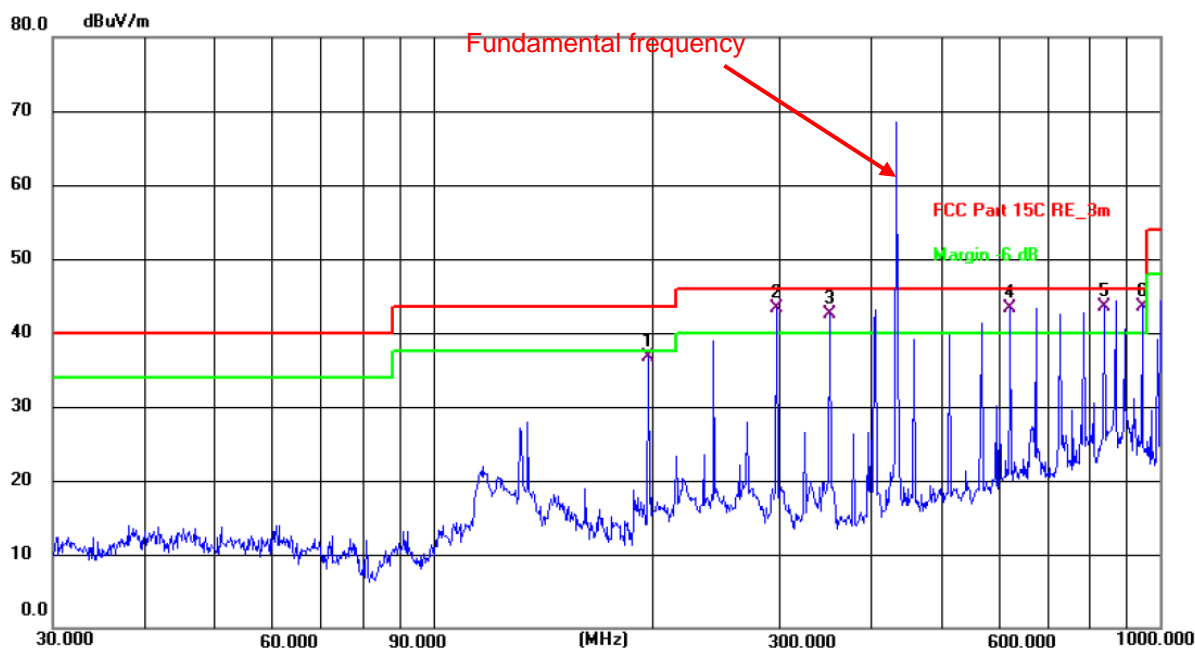
Frequency Range (9 kHz-30MHz)

| Frequency (MHz) | Level@3m (dBuV/m) | Limit@3m (dBuV/m) |
|-----------------|-------------------|-------------------|
| -- | -- | -- |
| -- | -- | -- |
| -- | -- | -- |
| -- | -- | -- |

Note: 1. Emission Level=Reading+ Cable loss-Antenna factor-Amp factor

2. The emission levels are 20 dB below the limit value, which are not reported. It is deemed to comply with the requirement

Below 1GHz



Site 3m Anechoic Chamber2

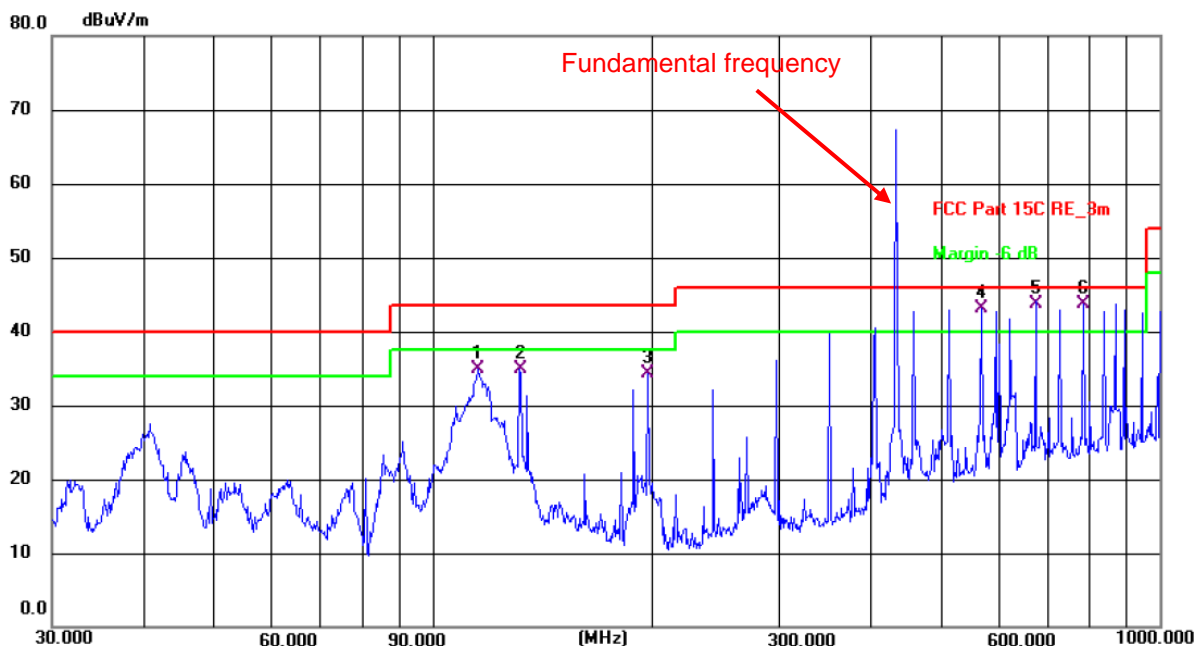
Polarization: **Horizontal**

Temperature: 22.8(C) Humidity: 51 %

Limit: FCC Part 15C RE_3m

Power: DC 3.7 V

| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | P/F | Remark |
|-----|-----------------|----------------|---------------|----------------|----------------|-------------|----------|-----|--------|
| 1 | 197.8925 | 58.17 | -21.52 | 36.65 | 43.50 | -6.85 | QP | P | |
| 2 ! | 297.2238 | 60.97 | -17.65 | 43.32 | 46.00 | -2.68 | QP | P | |
| 3 ! | 351.7078 | 59.11 | -16.64 | 42.47 | 46.00 | -3.53 | QP | P | |
| 4 ! | 622.8900 | 52.63 | -9.31 | 43.32 | 46.00 | -2.68 | QP | P | |
| 5 ! | 839.1816 | 50.22 | -6.69 | 43.53 | 46.00 | -2.47 | QP | P | |
| 6 * | 945.4400 | 48.86 | -5.26 | 43.60 | 46.00 | -2.40 | QP | P | |



Site 3m Anechoic Chamber2

Polarization: **Vertical**

Temperature: 22.8(C) Humidity: 51 %

Limit: FCC Part 15C RE_3m

Power: DC 3.7 V

| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | P/F | Remark |
|-----|-----------------|----------------|---------------|----------------|----------------|-------------|----------|-----|--------|
| 1 | 115.3204 | 54.84 | -19.93 | 34.91 | 43.50 | -8.59 | QP | P | |
| 2 | 131.7573 | 53.25 | -18.38 | 34.87 | 43.50 | -8.63 | QP | P | |
| 3 | 197.8925 | 55.85 | -21.52 | 34.33 | 43.50 | -9.17 | QP | P | |
| 4 ! | 568.6126 | 54.06 | -10.89 | 43.17 | 46.00 | -2.83 | QP | P | |
| 5 ! | 675.2078 | 51.87 | -8.25 | 43.62 | 46.00 | -2.38 | QP | P | |
| 6 * | 785.0932 | 50.84 | -7.11 | 43.73 | 46.00 | -2.27 | QP | P | |

Note: 1. The low frequency, which started from 9KHz~30MHz, was pre-scanned and the result which was 20dB lower than the limit line per 15.31(o) was not reported

2. Freq. = Emission frequency in MHz

Measurement (dBuV/m) = Reading level (dBuV) + Corr. Factor (dB)

Correction Factor= Antenna Factor + Cable loss – Pre-amplifier

Limit (dBuV/m) = Limit stated in standard

Margin (dB) = Measurement (dBuV/m) – Limits (dBuV/m)

Any value more than 10dB below limit have not been specifically reported

* is meaning the worst frequency has been tested in the test frequency range second harmonic

3. The limit value of the fundamental frequency is 100.83dBuV/m.

The limit value of the Second Harmonic frequency is 60.83dBuV/m.

Above 1GHz (PK value)


| Frequency PK Value (MHz) | Read Level PK (dBuV) | Correction Factor (dB/m) | Level PK (dBuV/m) | Limit Line PK (dBuV/m) | Over Limit (dB) | Polarization |
|--------------------------------|-------------------------|-----------------------------|----------------------|------------------------------|--------------------|--------------|
| 1301.76 | 62.88 | -18.59 | 44.29 | 80.83 | -36.54 | Vertical |
| 1735.68 | 54.17 | -18.14 | 36.03 | 80.83 | -44.80 | Vertical |
| 2169.60 | 52.80 | -17.61 | 35.19 | 80.83 | -45.64 | Vertical |
| 2603.52 | 49.38 | -16.45 | 32.93 | 80.83 | -47.90 | Vertical |
| 3037.44 | 48.56 | -14.84 | 33.72 | 80.83 | -47.11 | Vertical |
| 3471.36 | 46.63 | -14.17 | 32.46 | 80.83 | -48.37 | Vertical |
| 1301.76 | 60.30 | -18.59 | 41.71 | 80.83 | -39.12 | Horizontal |
| 1735.68 | 56.97 | -18.14 | 38.83 | 80.83 | -42.00 | Horizontal |
| 2169.60 | 54.46 | -17.61 | 36.85 | 80.83 | -43.98 | Horizontal |
| 2603.52 | 54.05 | -16.45 | 37.60 | 80.83 | -43.23 | Horizontal |
| 3037.44 | 53.93 | -14.84 | 39.09 | 80.83 | -41.74 | Horizontal |
| 3471.36 | 51.49 | -14.17 | 37.32 | 80.83 | -43.51 | Horizontal |

Note:

1. Emission Level=Peak Reading + Correction Factor; Correction Factor= Antenna Factor + Cable loss – Pre-amplifier
2. Margin (dB) = Emission Level (dBuV/m)- limit (dBuV/m)
3. The emission levels of other frequencies are very lower than the limit and not show in test report.
4. Measurements were conducted from 1 GHz to the 10th harmonic of highest fundamental frequency.
5. Data of measurement shown “*” in the above table mean that the reading of emissions is attenuated more than 20 dB below the limits or the field strength is too small to be measured.

5.4. Manually Activated Transmitter

5.4.1. Test Specification

| | |
|--------------------------|--|
| Test Requirement: | FCC Part15 C Section 15.231(a)(1) |
| Test Method: | ANSI C63.10: 2013 |
| Limit: | According to 15.231(a), A manually operated transmitter shall employ a switch that will automatically deactivate the transmitter within not more than 5 seconds of being released. |
| Test Procedure: | <ol style="list-style-type: none"> 1. According to the follow Test-setup, keep the relative position between the artificial antenna and the EUT. 2. Set to the maximum power setting and enable the EUT transmit continuously. 3. Use the following spectrum analyzer settings. RBW = 100KHz, VBW\geqRBW; Span = 0; Sweep Time > T(on)+5S; Detector function = peak; 4. Measure and record the results in the test report. |
| Test setup: |  <p>The diagram illustrates the test setup. On the left is a green Spectrum Analyzer with a screen and two knobs. A cable connects it to a yellow rectangular box on the right labeled 'EUT'.</p> |
| Test Mode: | Refer to Item 3.1 |
| Test results: | PASS |

5.4.2. Test Instruments

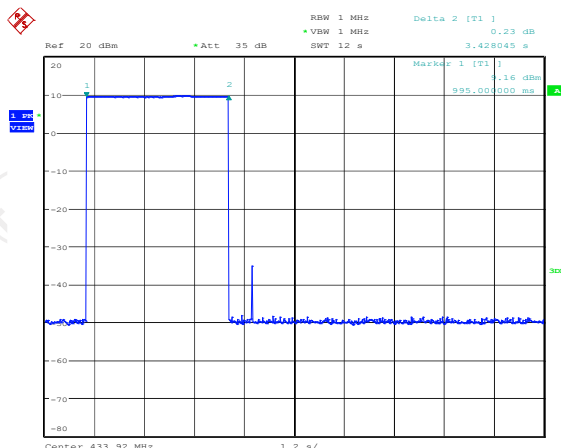
| RF Test Room | | | | |
|-------------------|--------------|-------|---------------|-----------------|
| Equipment | Manufacturer | Model | Serial Number | Calibration Due |
| Spectrum Analyzer | R&S | FSU | 200054 | Jun. 26, 2025 |

5.4.3. Test data

| Test Channel (MHz) | Manually Activated Transmitter (s) | Limit (s) | Conclusion |
|--------------------|------------------------------------|-----------|------------|
| 433.92 | 3.43 | 5 | PASS |

Test plots as follows:


433.92MHz



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5.5. Occupied Bandwidth

5.5.1. Test Specification

| | |
|--------------------------|--|
| Test Requirement: | FCC Part15 C Section 15.231C |
| Test Method: | ANSI C63.10: 2013 |
| Limit: | According to 15.231(c), The bandwidth of the emission shall be no wider than 0.25% of the centre frequency for devices operating above 70 MHz and below 900 MHz. For devices operating above 900 MHz, the emission shall be no wider than 0.5% of the centre frequency. Bandwidth is determined at the points 20 dB down from the modulated carrier. |
| Test Procedure: | <ol style="list-style-type: none"> 1. According to the follow Test-setup, keep the relative position between the artificial antenna and the EUT. 2. Set to the maximum power setting and enable the EUT transmit continuously. 3. Use the following spectrum analyzer settings for 20dB Bandwidth measurement. Span = 50KHz, centered on a hopping channel; RBW = 3KHz; VBW = 10KHz; Sweep = auto; Detector function = peak; Trace = max hold. 4. Measure and record the results in the test report. |
| Test setup: |  <p>The diagram illustrates the test setup. On the left is a Spectrum Analyzer, represented by a green rectangle with a blue screen and two small circles. A black cable connects the Spectrum Analyzer to the EUT (Equipment Under Test), which is represented by a yellow rectangle on the right. Below the Spectrum Analyzer is the label 'Spectrum Analyzer' and below the EUT is the label 'EUT'.</p> |
| Test Mode: | Refer to Item 3.1 |
| Test results: | PASS |

5.5.2. Test Instruments

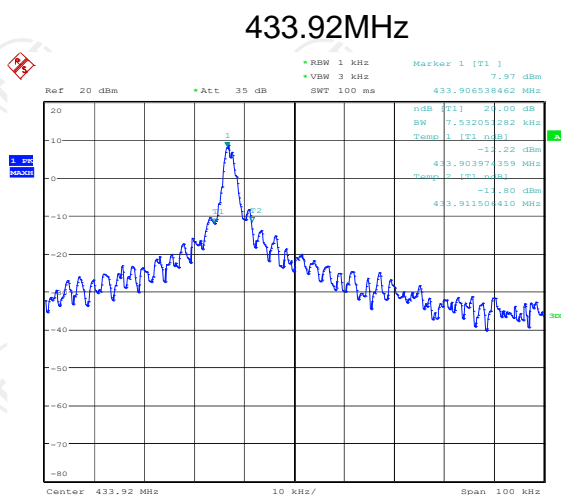
| RF Test Room | | | | |
|-------------------|--------------|-------|---------------|-----------------|
| Equipment | Manufacturer | Model | Serial Number | Calibration Due |
| Spectrum Analyzer | R&S | FSU | 200054 | Jun. 26, 2025 |

5.5.3. Test data

| Test Channel (MHz) | 20dB Occupy Bandwidth (kHz) | Limit (kHz) | Conclusion |
|--------------------|-----------------------------|-------------|------------|
| 433.92 | 7.53 | 1084.80 | PASS |

Note: Limit = 433.92MHz * 0.25% = 1084.80 kHz

Test plots as follows:



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Appendix A: Photographs of Test Setup

Please refer to document Appendix No.: TCT240906E007-A

Appendix B: Photographs of EUT

Please refer to document Appendix No.: TCT240906E007-B & TCT240906E007-C

*******END OF REPORT*******