

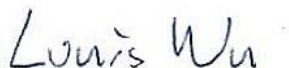


FCC RADIO TEST REPORT

FCC ID : T4522084
Equipment : TCU 2.2
Brand Name : LID Technologies
Model Name : 22084
Applicant : LID Technologies S.A.S.
3 rue GIOTTO Parc Technologique du canal,
Ramonville-Saint-Agne, France 31520
Manufacturer : LID Technologies S.A.S.
3 rue GIOTTO Parc Technologique du canal,
Ramonville-Saint-Agne, France 31520
Factory : SVI Public Company Limited
141-142 Moo 5 Bangkadi Industrial Park, Tiwanon
Road Bangkadi, Muang, Pathumthani 12000 Thailand
Standard : FCC Part 15 Subpart C §15.231

The product was received on Mar. 05, 2024, and testing was performed from Jun. 07, 2024 to Aug. 06, 2024. We, Sporton International Inc. EMC & Wireless Communications Laboratory, would like to declare that the tested sample has been evaluated in accordance with the test procedures and has been in compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of Sporton International Inc. EMC & Wireless Communications Laboratory, the test report shall not be reproduced except in full.



Approved by: Louis Wu

Sporton International Inc. EMC & Wireless Communications Laboratory
No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.)



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History of this test report

| Report No. | Version | Description | Issue Date |
|------------|---------|--|---------------|
| FR430602C | 01 | Initial issue of report | Sep. 16, 2024 |
| FR430602C | 02 | Revise Product Feature of Equipment Under Test and Product Specification of Equipment Under Test This report is an updated version, replacing the report issued on Sep. 16, 2024. | Oct. 07, 2024 |
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Summary of The Result

| Report Clause | Ref Std. Clause | Test Items | Result (PASS/FAIL) | Remark |
|---|------------------------|--|--------------------|--|
| - | 15.207 | AC Power Line Conducted Emissions | Not required | - |
| 3.1 | 15.231(a) | Types of Momentary Signals | PASS | - |
| 3.2 | 15.231(c) | 20dB and 99% Occupied Bandwidth | PASS | - |
| 3.3 | 15.231(b) 15.231(e) | Field Strength of Fundamental and Spurious Emissions | PASS | 1.38 dB Under the limit at 84.00 MHz |
| Note: The power source method of the EUT is to use Car Battery (DC power source), and there is no other AC power port, after assessing, AC Conduction Emission test is not required. | | | | |

Conformity Assessment Condition:

1. The test results (PASS/FAIL) with all measurement uncertainty excluded are presented against the regulation limits or in accordance with the requirements stipulated by the applicant/manufacture who shall bear all the risks of non-compliance that may potentially occur if measurement uncertainty is taken into account.
2. The measurement uncertainty please refer to each test result in the section "Measurement Uncertainty".

Disclaimer:

The product specifications of the EUT presented in the test report that may affect the test assessments are declared by the manufacturer who shall take full responsibility for the authenticity.

Reviewed by: Yun Huang

Report Producer: Lucy Wu

1. General Information

1.1 Product Feature of Equipment Under Test

| Product Feature | |
|---------------------------------|---|
| Equipment | TCU 2.2 |
| Brand Name | LID Technologies |
| Model Name | 22084 |
| FCC ID | T4522084 |
| Integrated WWAN Module | Brand Name: Quectel Model Name: BG95-M3, BG95-M3 MINIPCIE FCC ID: XMR201910BG95M3 |
| EUT supports Radios application | Bluetooth-LE, RFID and SRD. |
| EUT Stage | Production Unit |

Remark: The above EUT's information was declared by manufacturer.

1.2 Product Specification of Equipment Under Test

| Product Specification is subject to this standard | |
|---|----------------------------|
| Tx/Rx Frequency Range | 433.80 MHz ~ 434.01 MHz |
| Antenna Type | Helix Through-hole Antenna |
| Antenna Gain | -3 dBi |
| Type of Modulation | FSK |

Remark: The above EUT's information was declared by manufacturer. Please refer to Disclaimer in report summary.

1.3 Modification of EUT

No modifications are made to the EUT during all test items.

1.4 Testing Location

| | | |
|-----------------------|--|------------|
| Test Site | Sporton International Inc. EMC & Wireless Communications Laboratory | |
| Test Site Location | No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.) TEL: +886-3-327-3456 FAX: +886-3-328-4978 | |
| Test Site No. | Sporton Site No. | |
| | DF02-HY | 03CH07-HY |
| Test Engineer | Rebecca Li | Jesse Wang |
| Temperature (°C) | 24.4 | 24~25.2 |
| Relative Humidity (%) | 53.0 | 58.8~62.5 |

Note: The test site complies with ANSI C63.4 2014 requirement.

FCC designation No.: TW1190

1.5 Applicable Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- ♦ FCC Part 15 Subpart C §15.231
- ♦ ANSI C63.10-2013
- ♦ FCC KDB 414788 D01 Radiated Test Site v01r01

Remark:

1. All the test items were validated and recorded in accordance with the standards without any modification during the testing.
2. The TAF code is not including all the FCC KDB listed without accreditation.
3. This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B, recorded in a separate test report.

2. Test Configuration of Equipment Under Test

2.1 Descriptions of Test Mode

Investigation has been done on all the possible configurations for searching the worst cases.

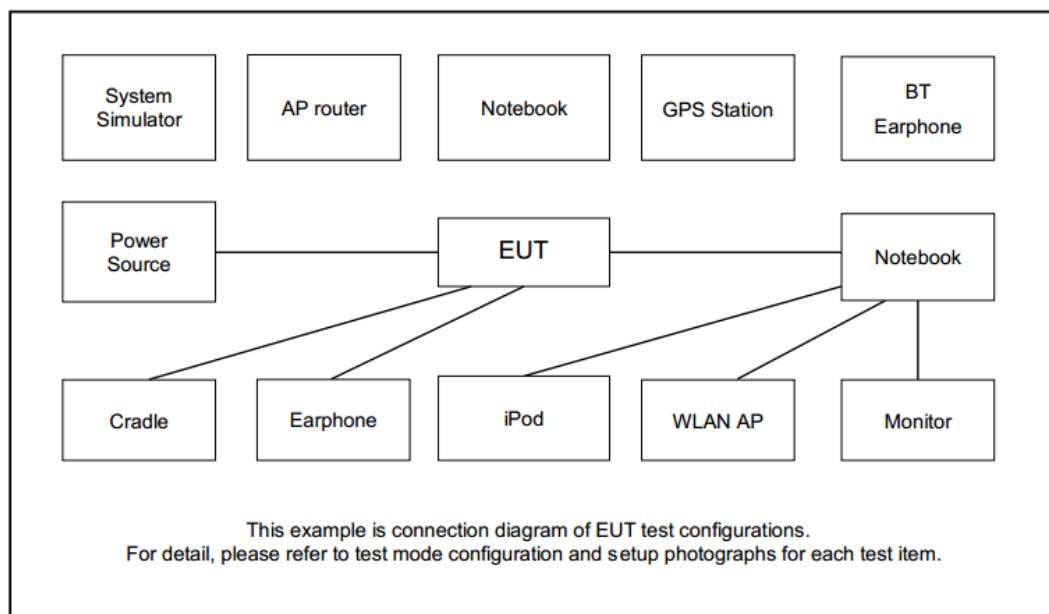
The following table is a list of the test modes shown in this test report.

The measured emission level of the EUT was maximized by rotating the EUT on a turntable, adjusting the orientation of the EUT and EUT antenna in three orthogonal axis (X: flat, Y: portrait, Z: landscape), and adjusting the measurement antenna orientation, following C63.10 exploratory test procedures and only the worst case emissions were reported in this report.

| Test Items | |
|--|--|
| Test Result of transmission time | |
| 20dB and 99% occupied bandwidth | |
| Field Strength of Fundamental and Spurious Emissions | |

| Test Configuration | |
|--------------------|-----------|
| Mode | Frequency |
| 1 | 433.92MHz |

2.2 Connection Diagram of Test System





2.3 Support Unit used in test configuration and system

| Item | Equipment | Brand Name | Model Name | FCC ID | Data Cable | Power Cord |
|------|-----------------|------------|------------|--------|------------|--|
| 1. | Notebook | Dell | E3340 | N/A | N/A | AC I/P: Unshielded, 1.2m DC O/P: Shielded, 1.8m |
| 2. | USB to RS232 | UGREEN | N/A | N/A | N/A | N/A |
| 3. | DC Power Supply | GW Instek | GPE2323 | N/A | N/A | N/A |

2.4 EUT Operation Test Setup

The RF test items, utility “Terminal v1.9b” was installed in Notebook which was programmed in order to make the EUT get into the engineering modes for continuous transmitting signals.

3. Test Results

3.1 Types of Momentarily Operated Devices

3.1.1 Limit

| | |
|-------------------------------------|---|
| <input checked="" type="checkbox"/> | §15.231 (a)(2) A transmitter activated automatically shall cease transmission within 5 seconds after activation. |
|-------------------------------------|---|

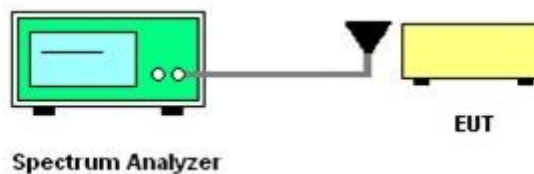
3.1.2 Measuring Instruments

See list of measuring instruments of this test report.

3.1.3 Test Procedures

1. The spectrum analyzer connected via a receive antenna placed near the EUT in peak Max hold mode.
2. The resolution bandwidth of 100 kHz and the video bandwidth of 100 kHz were used.
3. Measured the spectrum width with power higher than 20dB below carrier.
4. Measured the transmission period of EUT under specified condition.

3.1.4 Test Setup

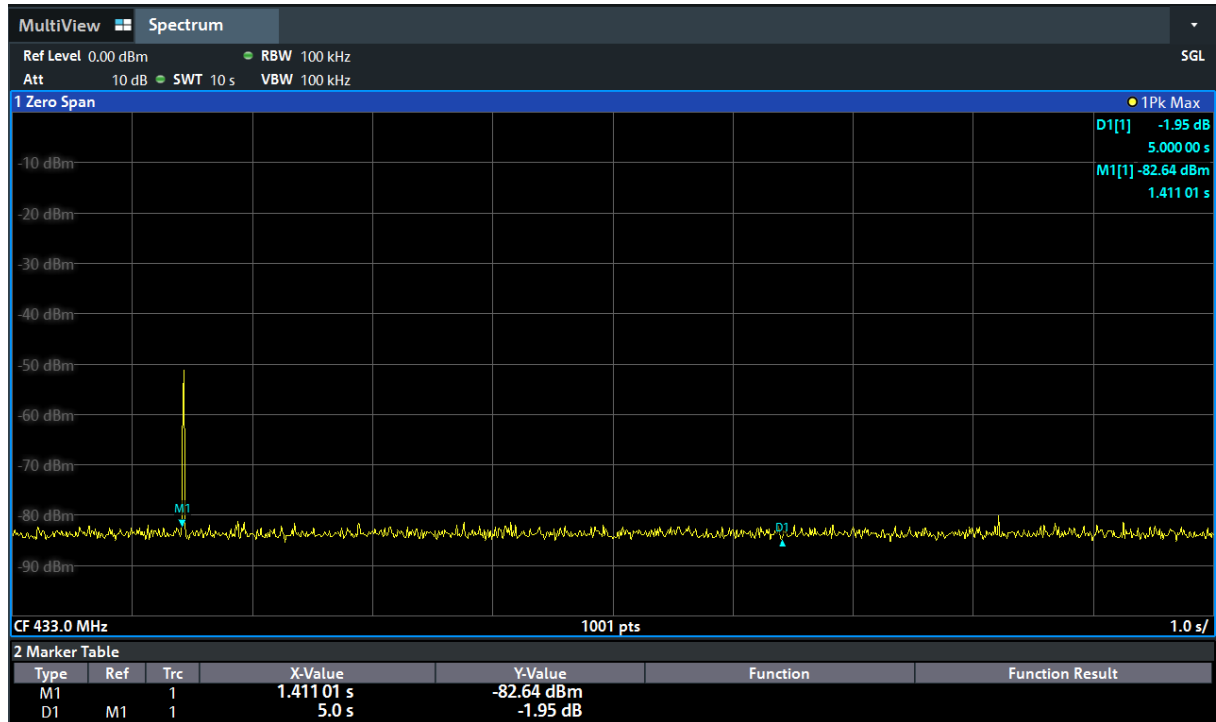


3.1.5 Test Result of transmission time



§15.231 (a)(2)

A transmitter activated automatically shall cease transmission within 5 seconds after activation.



3.2 20dB and 99% Occupied Bandwidth Measurement

3.2.1 Limit

The bandwidth of the emission shall be no wider than 0.25% of the center 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 center frequency. Bandwidth is determined at the points 20 dB down from the modulated carrier.

The 99% bandwidth of momentarily operated devices shall be less or equal to 0.25% of the centre frequency for devices operating between 70 MHz and 900 MHz. For devices operating above 900 MHz, the 99% bandwidth shall be less or equal to 0.5% of the centre frequency.

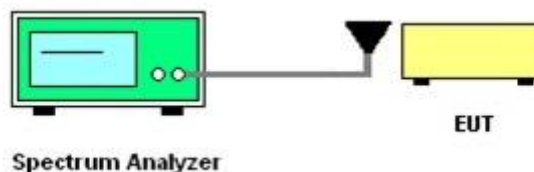
3.2.2 Measuring Instruments

See list of measuring instruments of this test report.

3.2.3 Test Procedures

1. The spectrum analyzer connected via a receive antenna placed near the EUT in peak Max hold mode.
2. The resolution bandwidth of 1 kHz and the video bandwidth of 3 kHz were used.
3. Measured the spectrum width with power higher than 20dB below carrier.
4. Measured the 99% OBW.

3.2.4 Test Setup



3.2.5 Test Result of Conducted Test Items

Please refer to Appendix A.

3.3 Field Strength of Fundamental and Spurious Emissions

3.3.1 Limit

☒

15.231(b)

In addition to the provisions of §15.205, the field strength of emissions from intentional radiators operated under this section shall not exceed the following

From 15.231(b)(3), the limits on the field strength of the spurious emissions in the above table are 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 § 15.209, whichever limit permits a higher field strength.

| Rules and specifications | FCC CFR 47 Part 15 section 15.231 | |
|------------------------------------|---|--|
| Fundamental frequency (f) (MHz) | Field strength of fundamental (µV/m) at 3m | Field strength of spurious emissions (dBµV/m) at 3m |
| 40.66 ≤ f ≤ 40.70 | 2250 | 225 |
| 70 < f ≤ 130 | 1250 | 125 |
| 130 < f ≤ 174 | 1250 to 3750* | 125 to 375* |
| 174 < f ≤ 260 | 3750 | 375 |
| 260 < f ≤ 470 | 3750 to 12500* | 375 to 1250* |
| 470 < f | 12500 | 1250 |

* Linear interpolation with frequency, f, in MHz.

3.3.2 Measuring Instruments

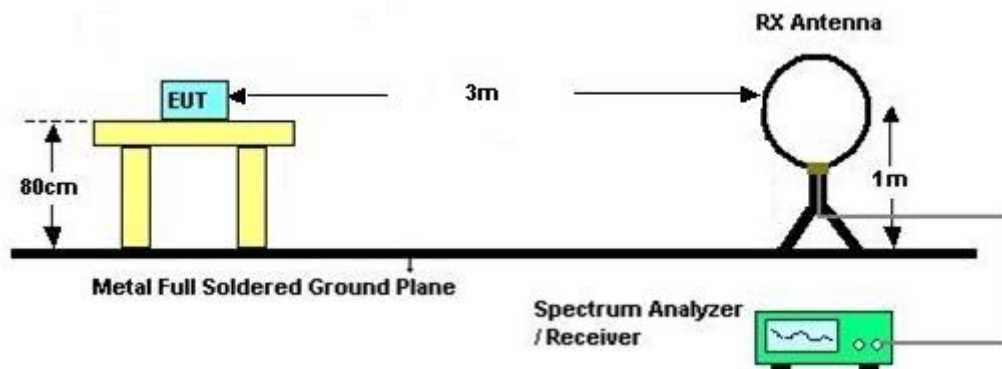
See list of measuring instruments of this test report.

3.3.3 Test Procedures

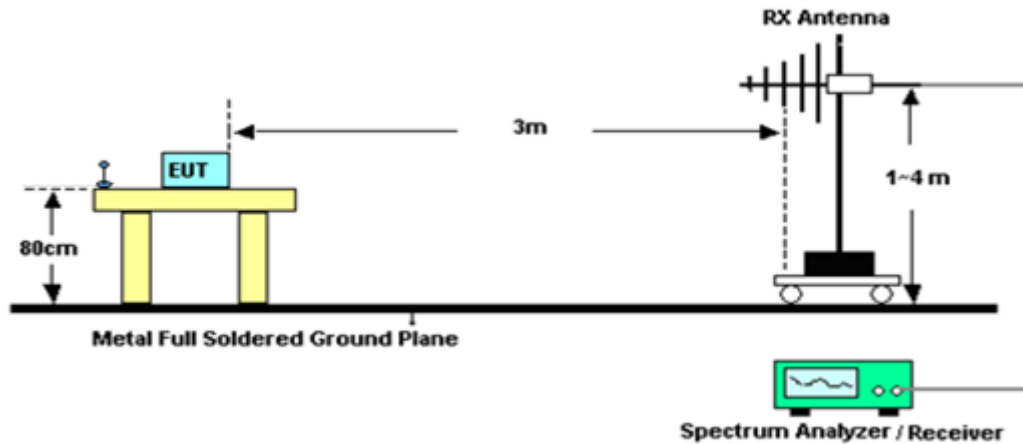
1. Configure the EUT according to ANSI C63.10. The EUT was placed on the top of the turntable 0.8 meter above ground. The phase center of the loop receiving antenna mounted antenna tower was placed 3 meters far away from the turntable.
2. Power on the EUT and all the supporting units. The turntable was rotated by 360 degrees to determine the position of the highest radiation.
3. The height of the receiving antenna was fixed at one meter above ground to find the maximum emissions field strength.
4. For Fundamental emissions, use the receiver to measure Average reading.
5. For average measurement: use duty cycle correction factor method per 15.35(c).
 Duty cycle = On time/100 milliseconds
 On time = $N1*L1+N2*L2+...+Nn-1*LNn-1+Nn*Ln$
 Where N1 is number of type 1 pulses, L1 is length of type 1 pulses, etc.
 Average Emission Level = Peak Emission Level + $20*\log(\text{Duty cycle})$
6. Radiated testing below 1 GHz is performed by adjusting the antenna tower from 1 m to 4 m and by rotating the turn table from 0 degree to 360 degrees to find the peak maximum hold reading. When there is no suspected emission found and the emission level is with at least 6 dB margin against QP limit line, the position is marked as “-”.
7. Radiated testing above 1 GHz is performed by adjusting the antenna tower from 1 m to 4 m and by rotating the turn table from 0 degree to 360 degrees to find the peak maximum hold reading for scanning all frequencies. When there is no suspected emission found and the harmonic emission level is with at least 6 dB margin against average limit line, the position is marked as “-”.

3.3.4 Test Setup

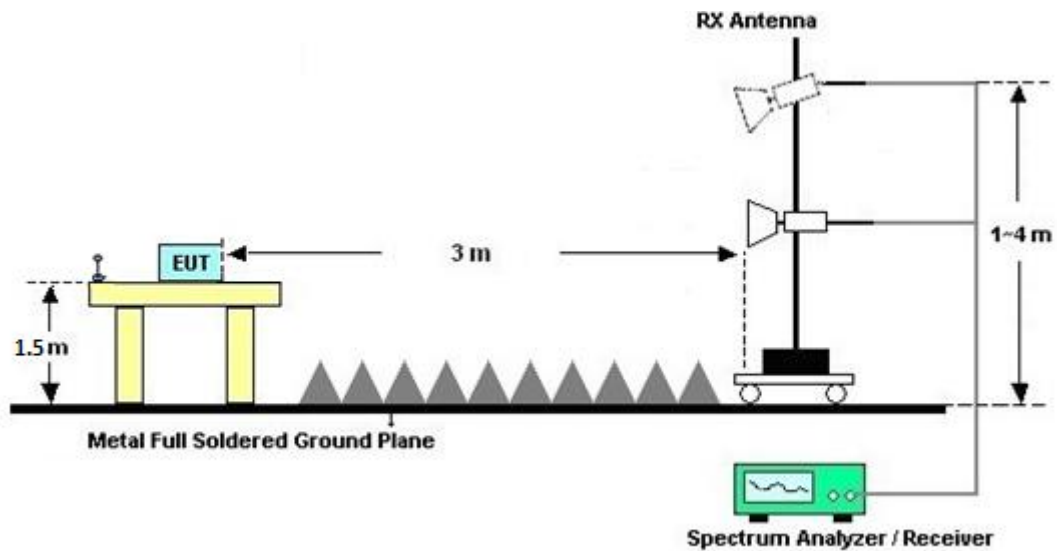
For radiated emissions below 30MHz



For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz



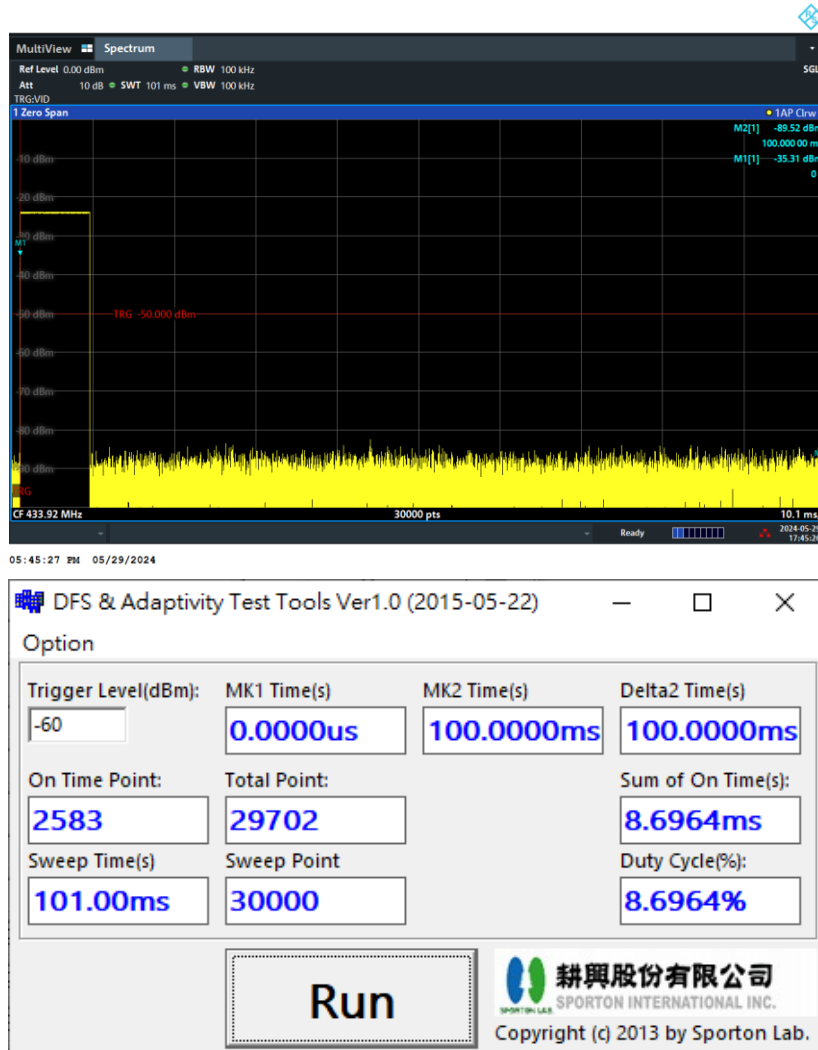
3.3.5 Test Results of Radiated Spurious Emissions (9 kHz ~ 30 MHz)

The low frequency, which starts from 9 kHz to 30 MHz, is pre-scanned and the result which is 20 dB lower than the limit line is not reported.

There is adequate comparison measurement of both open-field test site and alternative test site - semi-Anechoic chamber according to 414788 D01 Radiated Test Site v01r01, and the result comes out very similar.

3.3.6 Duty Cycle

433.92MHz on time Plot



Note:

1. Worst case Duty cycle = on time/100 milliseconds = 8.6964 %
2. Worst case Duty cycle correction factor = $20 \cdot \log(\text{Duty cycle}) = -21.21 \text{ dB}$

3.3.7 Test Result of Fundamental and Spurious Emissions

Please refer to Appendix B.



4. List of Measuring Equipment

| Instrument | Brand Name | Model No. | Serial No. | Characteristics | Calibration Date | Test Date | Due Date | Remark |
|---------------------------|--------------------|----------------------------|-------------------------------------|-------------------------|------------------|---------------------------------|---------------|--------------------------|
| Double Ridge Horn Antenna | ETS-Lindgren | 3117 | 00075962 | 1GHz ~ 18GHz | Nov. 27, 2023 | Jun. 07, 2024~ Aug. 06, 2024 | Nov. 26, 2024 | Radiation (03CH07-HY) |
| Preamplifier | MITEQ | AMF-7D-0010 1800-30-10P | 1590075 | 1GHz~18GHz | Apr. 19, 2024 | Jun. 07, 2024~ Aug. 06, 2024 | Apr. 18, 2025 | Radiation (03CH07-HY) |
| Preamplifier | Agilent | 8449B | 3008A02362 | 1GHz~26.5GHz | Mar. 23, 2024 | Jun. 07, 2024~ Aug. 06, 2024 | Mar. 22, 2025 | Radiation (03CH07-HY) |
| Spectrum Analyzer | Agilent | N9030A | MY52350276 | 3Hz~44GHz | Mar. 26, 2024 | Jun. 07, 2024~ Aug. 06, 2024 | Mar. 25, 2025 | Radiation (03CH07-HY) |
| RF Cable | HUBER + SUHNER | SUCOFLEX 104 | MY28655/4 MY24971/4 MY15682/4 | 30MHz to 18GHz | Feb. 21, 2024 | Jun. 07, 2024~ Aug. 06, 2024 | Feb. 20, 2025 | Radiation (03CH07-HY) |
| RF Cable | HUBER + SUHNER | SUCOFLEX 104 | MY28655/4 MY24971/4 | 9kHz to 30MHz | Feb. 21, 2024 | Jun. 07, 2024~ Aug. 06, 2024 | Feb. 20, 2025 | Radiation (03CH07-HY) |
| RF Cable | HUBER + SUHNER | SUCOFLEX 126 | 532078/126E | 30MHz~18GHz | Sep. 15, 2023 | Jun. 07, 2024~ Aug. 06, 2024 | Sep. 14, 2024 | Radiation (03CH07-HY) |
| RF Cable | HUBER + SUHNER | SUCOFLEX 102 | 801606/2 | 9KHz ~ 40GHz | Apr. 22, 2024 | Jun. 07, 2024~ Aug. 06, 2024 | Apr. 21, 2025 | Radiation (03CH07-HY) |
| Controller | EMEC | EM1000 | N/A | Control Ant Mast | N/A | Jun. 07, 2024~ Aug. 06, 2024 | N/A | Radiation (03CH07-HY) |
| Controller | MF | MF-7802 | N/A | Control Turn table | N/A | Jun. 07, 2024~ Aug. 06, 2024 | N/A | Radiation (03CH07-HY) |
| Antenna Mast | EMEC | AM-BS-4500E | N/A | Boresight mast 1M~4M | N/A | Jun. 07, 2024~ Aug. 06, 2024 | N/A | Radiation (03CH07-HY) |
| Turn Table | ChainTek | Chaintek 3000 | N/A | 0~360 Degree | N/A | Jun. 07, 2024~ Aug. 06, 2024 | N/A | Radiation (03CH07-HY) |
| Software | Audix | E3 | N/A | N/A | N/A | Jun. 07, 2024~ Aug. 06, 2024 | N/A | Radiation (03CH07-HY) |
| USB Data Logger | TECPEL | TR-32 | HE17XB2495 | N/A | Mar. 01, 2024 | Jun. 07, 2024~ Aug. 06, 2024 | Feb. 28, 2025 | Radiation (03CH07-HY) |
| Spectrum Analyzer | Rohde & Schwarz | FSV3044 | 101356 | 10Hz~44GHz | Aug. 02, 2023 | Jul. 30, 2024 | Aug. 01, 2024 | Duty Cycle (DF02-HY) |

5. Measurement Uncertainty

Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

| | |
|---|--------|
| Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$) | 6.3 dB |
|---|--------|

Uncertainty of Radiated Emission Measurement (1000 MHz ~ 6000 MHz)

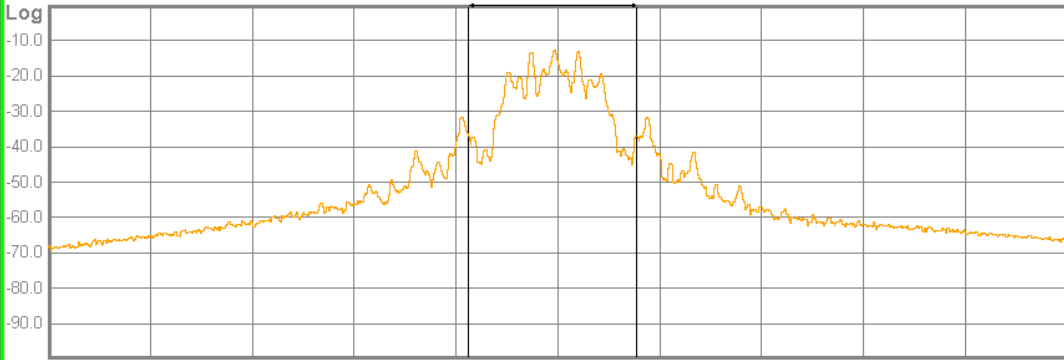
| | |
|---|--------|
| Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$) | 4.6 dB |
|---|--------|

Uncertainty of Radiated Emission Measurement (6000 MHz ~ 18000 MHz)

| | |
|---|--------|
| Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$) | 4.3 dB |
|---|--------|



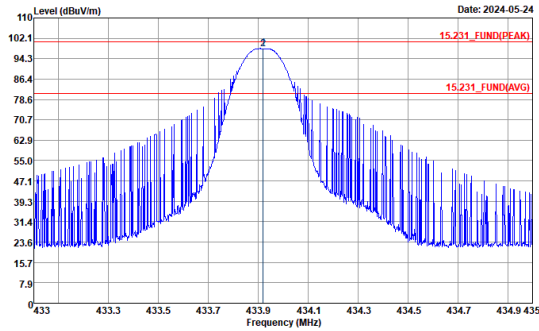
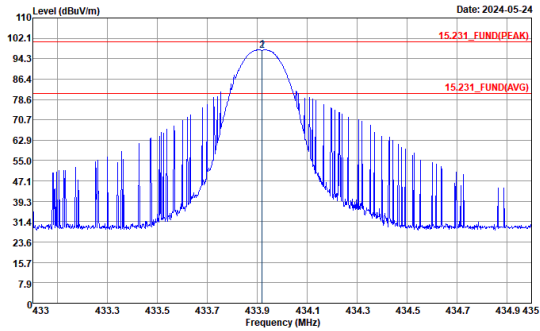
Appendix A. Test Results of Conducted Test Items

| | | | |
|--|---------------------------------------|----------------------|--------------|
| Test Mode | Mode 1 | Test Frequency (MHz) | 433.92MHz Tx |
| 20dB Bandwidth (kHz) | 92.37 | 99% Occupied BW(kHz) | 80.866 |
| <div><div><div>10 dB/div Log -10.0 -20.0 -30.0 -40.0 -50.0 -60.0 -70.0 -80.0 -90.0</div><div>Ref 0.00 dBm</div><div>Center 433.9 MHz #Res BW 1 kHz</div><div>#VBW 3 kHz</div><div>Span 500 kHz #Sweep 200 ms</div></div><div><div>Occupied Bandwidth</div><div>80.866 kHz</div><div>Total Power</div><div>-1.73 dBm</div><div>Transmit Freq Error</div><div>-2.144 kHz</div><div>OBW Power</div><div>99.00 %</div><div>x dB Bandwidth</div><div>92.37 kHz</div><div>x dB</div><div>-20.00 dB</div></div></div> | | | |
| <div>Clear Write</div> <div>Average</div> <div>Max Hold</div> <div>Min Hold</div> <div>Detector Peak▶ Auto Man</div> | | | |
| Bandwidth Limit | Shall be less than 0.25% of 433.92MHz | | |
| | < 1084.8kHz | | |
| Test Result | Complies | | |

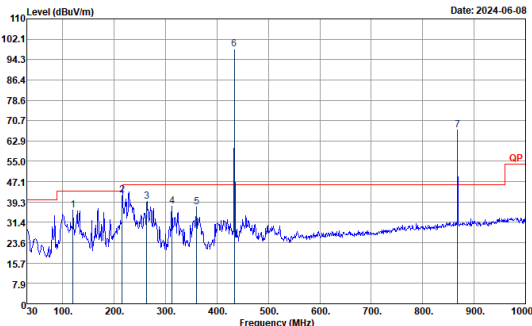
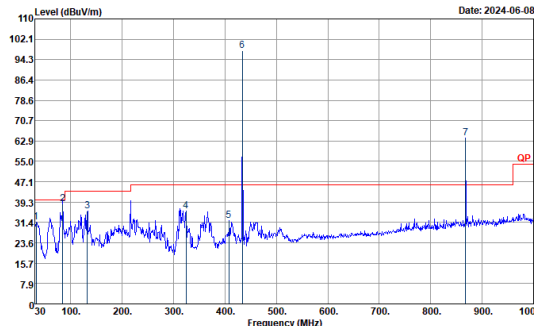


Appendix B. Test Results of Radiated Test Items

B1. Test Result of Field Strength of Fundamental Emissions

| Test Mode | | Mode 1 | | | | Test Frequency (MHz) | | 433.92MHz Tx | | | |
|---|----------------|-------------|---------------------|-------------------|-----------------------|--|--------------------|--------------|-----------------|-----------------|------------|
| Polarization: H | | | | | | Polarization: V | | | | | |
|  <p>Site : 03CH07-HY Condition : 15.231_FUND(PEAK) 3m LF-ANT-35419(6)_H HORIZONTAL Detector : Peak Project : 430602 Mode : 1</p> | | | | | |  <p>Site : 03CH07-HY Condition : 15.231_FUND(PEAK) 3m LF-ANT-35419(6)_H VERTICAL Detector : Peak Project : 430602 Mode : 1</p> | | | | | |
| Frequency (MHz) | Level (dBμV/m) | Margin (dB) | Limit Line (dBμV/m) | Read Level (dBμV) | Antenna Factor (dB/m) | Path Loss (dB) | Preamp Factor (dB) | Ant Pos (cm) | Table Pos (deg) | Peak Avg. (P/A) | Pol. (H/V) |
| 433.92 | 98.21 | -2.62 | 100.83 | 101.98 | 22.27 | 3.74 | 29.78 | 201 | 256 | P | H |
| 433.92 | 77.00 | -3.83 | 80.83 | - | - | - | - | - | - | A | H |
| 433.92 | 97.63 | -3.20 | 100.83 | 101.4 | 22.27 | 3.74 | 29.78 | 112 | 40 | P | V |
| 433.92 | 76.42 | -4.41 | 80.83 | - | - | - | - | - | - | A | V |
| Note: <ul style="list-style-type: none">• Path Loss (dB) = Cable Loss (dB) + Filter Loss (dB) + Attenuator Loss (dB)• Level (dBuV/m) = Antenna Factor (dB/m) + Path Loss (dB) + Read Level (dBuV) - Preamp Factor (dB)• Margin (dB) = Level (dBuV/m) – Limit Line (dBuV/m) | | | | | | | | | | | |

B2. Test Result of Radiated Spurious Emissions (30MHz~1GHz)

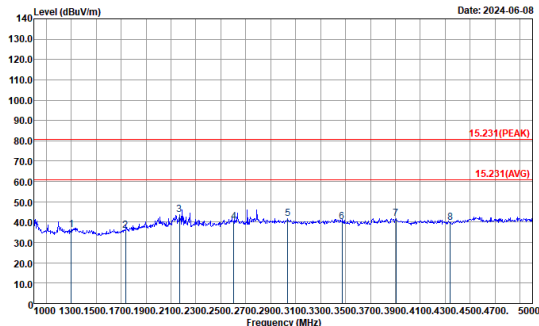
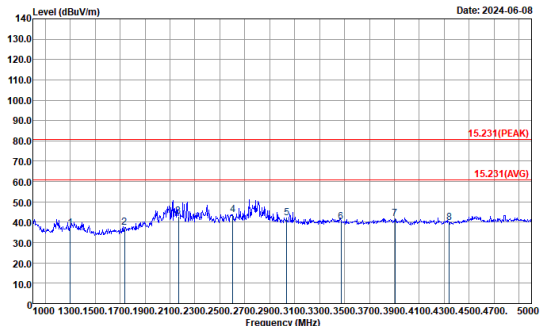
| Test Mode | | Mode 1 | | | | | Test Frequency (MHz) | | 433.92MHz Tx | | | | |
|--|----------------|-------------|---------------------|-------------------|-----------------------|----------------|---|--------------|-----------------|-----------------|------------|--|--|
| Polarization: H | | | | | | | Polarization: V | | | | | | |
| <div><p>Site : 03CH07-HY Condition : QP 3m LF-ANT-35419(6)_H HORIZONTAL Detector : Peak Project : 430602 Mode : 1</p></div> | | | | | | | <div><p>Site : 03CH07-HY Condition : QP 3m LF-ANT-35419(6)_H VERTICAL Detector : Peak Project : 430602 Mode : 1</p></div> | | | | | | |
| Frequency (MHz) | Level (dBµV/m) | Margin (dB) | Limit Line (dBµV/m) | Read Level (dBµV) | Antenna Factor (dB/m) | Path Loss (dB) | Preamp Factor (dB) | Ant Pos (cm) | Table Pos (deg) | Peak Avg. (P/A) | Pol. (H/V) | | |
| 120.18 | 36.03 | -7.47 | 43.5 | 46.62 | 17.24 | 2.05 | 29.88 | - | - | P | H | | |
| 215.76 | 42.09 | -1.41 | 43.5 | 54.28 | 14.93 | 2.71 | 29.83 | 100 | 43 | QP | H | | |
| 263.55 | 39.51 | -6.49 | 46 | 46.66 | 19.68 | 2.99 | 29.82 | - | - | P | H | | |
| 312.6 | 37.72 | -8.28 | 46 | 45.05 | 19.27 | 3.21 | 29.81 | - | - | P | H | | |
| 360.2 | 37.36 | -8.64 | 46 | 43.33 | 20.43 | 3.41 | 29.81 | - | - | P | H | | |
| * | 433.92 | - | - | 101.98 | 22.27 | 3.74 | 29.78 | - | - | P | H | | |
| 867.84 | 67.11 | -13.72 | 80.83 | 62.83 | 28.09 | 5.24 | 29.05 | - | - | P | H | | |
| 867.84 | 45.90 | -14.93 | 60.83 | - | - | - | - | - | - | A | H | | |
| 32.97 | 31.47 | -8.53 | 40 | 37.06 | 23.22 | 1.12 | 29.93 | - | - | P | V | | |
| 84.00 | 38.62 | -1.38 | 40 | 52.86 | 13.9 | 1.76 | 29.9 | 100 | 213 | QP | V | | |
| 132.06 | 35.88 | -7.62 | 43.5 | 46.16 | 17.43 | 2.15 | 29.86 | - | - | P | V | | |
| 323.8 | 35.76 | -10.24 | 46 | 42.99 | 19.32 | 3.26 | 29.81 | - | - | P | V | | |
| 407.8 | 32.2 | -13.8 | 46 | 36.77 | 21.65 | 3.6 | 29.82 | - | - | P | V | | |
| * | 433.92 | - | - | 101.4 | 22.27 | 3.74 | 29.78 | - | - | P | V | | |
| 867.84 | 64.05 | -16.78 | 80.83 | 59.77 | 28.09 | 5.24 | 29.05 | - | - | P | V | | |
| 867.84 | 42.84 | -17.99 | 60.83 | - | - | - | - | - | - | A | V | | |

Note:

- 433.92MHz is fundamental signal which can be ignored
- Path Loss (dB) = Cable Loss (dB) + Filter Loss (dB) + Attenuator Loss (dB)
- Level (dBuV/m) = Antenna Factor (dB/m) + Path Loss (dB) + Read Level (dBuV) - Preamp Factor (dB)
- Margin (dB) = Level (dBuV/m) – Limit Line (dBuV/m)
- The emission position marked as “-” means no suspected emission found and emission level has at least 6dB margin against limit or emission is noise floor only.



B3. Test Result of Field Radiated Spurious Emissions (1GHz~5GHz)

| Test Mode | | Mode 1 | | | | | Test Frequency (MHz) | | 433.92MHz Tx | | | | |
|--|-----------------|----------------|-------------|---------------------|-------------------|-----------------------|--|--------------------|--------------|-----------------|-----------------|------------|--|
| Polarization: H | | | | | | | Polarization: V | | | | | | |
| <div><p>Date: 2024-06-08</p><p>Site : 03CH07-HY Condition : 15.231(PEAK) 3m HF_ANT_00075962 HORIZONTAL Detector : Peak Project : 430602 Mode : 1</p></div> | | | | | | | <div><p>Date: 2024-06-08</p><p>Site : 03CH07-HY Condition : 15.231(PEAK) 3m HF_ANT_00075962 VERTICAL Detector : Peak Project : 430602 Mode : 1</p></div> | | | | | | |
| | Frequency (MHz) | Level (dBμV/m) | Margin (dB) | Limit Line (dBμV/m) | Read Level (dBμV) | Antenna Factor (dB/m) | Path Loss (dB) | Preamp Factor (dB) | Ant Pos (cm) | Table Pos (deg) | Peak Avg. (P/A) | Pol. (H/V) | |
| | 1301.76 | 36.18 | -37.82 | 74 | 59.54 | 29.3 | 7.09 | 59.75 | - | - | P | H | |
| | 1735.68 | 35.97 | -38.03 | 74 | 58.32 | 29.36 | 7.71 | 59.42 | - | - | P | H | |
| | 2169.6 | 43.71 | -30.29 | 74 | 62.66 | 31.8 | 8.52 | 59.27 | - | - | P | H | |
| | 2603.52 | 40.31 | -33.69 | 74 | 57.28 | 32.8 | 9.35 | 59.12 | - | - | P | H | |
| | 3037.44 | 41.77 | -32.23 | 74 | 57.69 | 33.13 | 10.01 | 59.06 | - | - | P | H | |
| | 3471.36 | 40.14 | -33.86 | 74 | 55.93 | 32.97 | 10.65 | 59.41 | - | - | P | H | |
| | 3905.28 | 41.54 | -32.46 | 74 | 56.73 | 33.39 | 11.26 | 59.84 | - | - | P | H | |
| | 4339.2 | 39.63 | -34.37 | 74 | 53.77 | 33.8 | 11.95 | 59.89 | - | - | P | H | |
| | 1301.76 | 37.15 | -36.85 | 74 | 60.51 | 29.3 | 7.09 | 59.75 | - | - | P | V | |
| | 1735.68 | 37.43 | -36.57 | 74 | 59.78 | 29.36 | 7.71 | 59.42 | - | - | P | V | |
| | 2169.6 | 42.97 | -31.03 | 74 | 61.92 | 31.8 | 8.52 | 59.27 | - | - | P | V | |
| | 2603.52 | 43.64 | -30.36 | 74 | 60.61 | 32.8 | 9.35 | 59.12 | - | - | P | V | |
| | 3037.44 | 42.26 | -31.74 | 74 | 58.18 | 33.13 | 10.01 | 59.06 | - | - | P | V | |
| | 3471.36 | 40.14 | -33.86 | 74 | 55.93 | 32.97 | 10.65 | 59.41 | - | - | P | V | |
| | 3905.28 | 41.9 | -32.1 | 74 | 57.09 | 33.39 | 11.26 | 59.84 | - | - | P | V | |
| | 4339.2 | 39.74 | -34.26 | 74 | 53.88 | 33.8 | 11.95 | 59.89 | - | - | P | V | |
| Note: <ul style="list-style-type: none">Path Loss (dB) = Cable Loss (dB) + Filter Loss (dB) + Attenuator Loss (dB)Level (dBuV/m) = Antenna Factor (dB/m) + Path Loss (dB) + Read Level (dBuV) - Preamp Factor (dB)Margin (dB) = Level (dBuV/m) – Limit Line (dBuV/m)The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only. | | | | | | | | | | | | | |