| | と 辺 UNDLOGY | | |
|----------------------------------|--|---------------------------|--------------------------|
| | TEST REPO | RT | |
| FCC ID : | 2BH9C-LMGSNSXASG | | |
| Test Report No: | TCT240819E013 | | |
| Date of issue: | Sep. 02, 2024 | | |
| Testing laboratory: : | SHENZHEN TONGCE TEST | ING LAB | |
| Testing location/ address: | 2101 & 2201, Zhenchang Fac Subdistrict, Bao'an District, SI People's Republic of China | | |
| Applicant's name: : | PRISM TECH PTE. LTD | | $\langle \zeta' \rangle$ |
| Address: | 996 BENDEMEER ROAD, #0 (339944), Singapore |)3-07 B CENTRAL, SINGA | APORE |
| Manufacturer's name : | PRISM TECH PTE. LTD | | |
| Address: | 996 BENDEMEER ROAD, #0 (339944), Singapore |)3-07 B CENTRAL, SINGA | APORE |
| Standard(s): | FCC CFR Title 47 Part 15 Sul | bpart C Section 15.225 | |
| Test item description : | Sentry | | |
| Trade Mark: | PRISM+ | · | |
| Model/Type reference : | LMGSNSXASG, LMGSNSXA LMGSNSXACG, LMGSNSXA | | |
| Rating(s): | Rechargeable Li-ion Battery | DC 7.4V | |
| Date of receipt of test item | Aug. 12, 2024 | | |
| Date (s) of performance of test: | Aug. 12, 2024 ~ Sep. 02, 202 | 24 | |
| Tested by (+signature) : | Yannie ZHONG | Yannie Zonece | L |
| Check by (+signature) : | Beryl ZHAO | BoyConger CT) | |
| Approved by (+signature): | Tomsin | Jomsnes 33 | |
| General disclaimer: | | the written approval of S | |

This report shall not be reproduced except in full, without the written approval of SHENZHEN TONGCE TESTING LAB. This document may be altered or revised by SHENZHEN TONGCE TESTING LAB personnel only, and shall be noted in the revision section of the document. The test results in the report only apply to the tested sample.

Table of Contents

TCT通测检测 TESTING CENTRE TECHNOLOGY

| 1. | General Product Information | | | |
|----|-------------------------------------|------------|-------------|----|
| | 1.1. EUT description | | | 3 |
| | 1.2. Model(s) list | | | |
| 2. | Test Result Summary | | (| |
| 3. | General Information | | | |
| | 3.1. Test Environment and Mode | | | 5 |
| | 3.2. Description of Support Units | | <u>(</u> 0) | 5 |
| 4. | Facilities and Accreditations | | | |
| | 4.1. Facilities | | | |
| | 4.2. Location | <u>(0)</u> | | |
| | 4.3. Measurement Uncertainty | | | 6 |
| 5. | Test Results and Measurement Data . | | | |
| | 5.1. Antenna Requirement | | | 7 |
| | 5.2. Conducted Emission | | | |
| | 5.3. Radiated Emission Measurement | | | |
| | 5.4. Occupied Bandwidth | | | |
| | 5.5. Frequency stability | | | 22 |
| Ар | pendix A: Photographs of Test Setup | | | |
| Ар | pendix B: Photographs of EUT | | | |

TCT通测检测 TESTING CENTRE TECHNOLOGY 1. General Product Information

Report No.: TCT240819E013

1.1.EUT description

| - | | | |
|------------------------|-------------------------------|-----------------------------|---------------------|
| Test item description: | Sentry | | |
| Model/Type reference: | LMGSNSXASG | | |
| Sample Number | TCT240819E012-0101 | | |
| Operation Frequency: | 13.56MHz | | |
| Antenna Type: | PCB Antenna | | |
| Antenna Gain: | 0dBi | $(\mathbf{c}^{\mathbf{A}})$ | (\mathcal{C}^{*}) |
| Rating(s): | Rechargeable Li-ion Battery D | DC 7.4V | |

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. | | Μ | odel No. | | | Test | ed with |
|--------------|---|----------|--------------------|---|--------|------|------------------------|
| S I | | LMG | SNSXAS | G | No. | | $\boxtimes \bigotimes$ |
| Other models | LMGSNSX | ACR, LMG | SNSXANS MGSNSXA | | SXACG, | | |
| | G is tested model, hly different on the dels. | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |



2. Test Result Summary

| Requirement | CFR 47 Section IC Paragraph | Result |
|-------------------------------------|--------------------------------|--------|
| Antenna requirement | §15.203 | PASS |
| AC Power Line Conducted Emission | §15.207 | PASS |
| Spurious emissions | §15.225/ §15.209 | PASS |
| Occupied Bandwidth | §15.215 (c) | PASS |
| Frequency stability | §15.225 | 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

| Condition | Conducted E | mission | Radiated Emission |
|--|--------------------------------|--------------------------------|------------------------------|
| Temperature: | 25.3 °C | | 24.8 °C |
| Humidity: | 52 % RH | No. | 52 % RH |
| Atmospheric Pressure: | 1010 mbar | | 1010 mbar |
| Fest Mode: | | | |
| Operation mode: | | Keep the EU with modulati | T in continuous transmitting |
| The sample was placed (0.8 plane of 3m chamber. Meas performed. During the test, o | urements in b each emission | oth horizontal was maximize | and vertical polarities were |

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(Z axis) are shown in Test Results of the following pages.

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 |
|-----------|-----------|----------------|--------|------------|
| IC Card | / | / | / | 1 |
| Adapter | EP-TA200 | R37M4PR7QD4SE3 | (3) | 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 %.

| Item | MU |
|---|--|
| Conducted Emission | ± 3.10 dB |
| RF power, conducted | ± 0.12 dB |
| Spurious emissions, conducted | ± 0.11 dB |
| All emissions, radiated(<1 GHz) | ± 4.56 dB |
| All emissions, radiated(1 GHz - 18 GHz) | 🕑 ± 4.22 dB 🌾 |
| All emissions, radiated(18 GHz- 40 GHz) | ± 4.36 dB |
| | Conducted Emission RF power, conducted Spurious emissions, conducted All emissions, radiated(<1 GHz) |

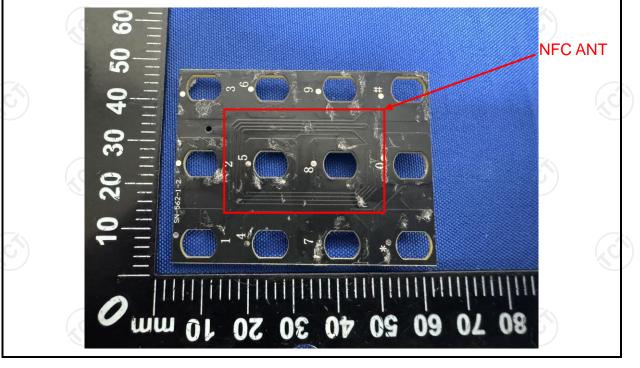


15.203 requirement:

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. This requirement does not apply to carrier current devices or to devices operated under the provisions of §15.211, §15.213, §15.217, §15.219, or §15.221. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with §15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.

E.U.T Antenna:

The NFC antenna is PCB antenna which permanently attached, and the best case gain of the antenna is 0dBi.



5.2. Conducted Emission

5.2.1. Test Specification

| Test Requirement: | FCC Part15 C Section | 15.207 | | |
|-------------------|--|--|---|---|
| Test Method: | ANSI C63.10:2013 | | | |
| Frequency Range: | 150 kHz to 30 MHz | | | |
| Receiver setup: | RBW=9 kHz, VBW=30 | kHz, Sweep time | e=auto | |
| Limits: | Frequency range (MHz) 0.15-0.5 0.5-5 5-30 | Limit (Quasi-peak 66 to 56* 56 60 | dBuV) Average 56 to 46* 46 50 | |
| | 101 | ence Plane | (,6) | |
| Test Setup: | 40cm E.U.T AC po Test table/Insulation pla Remark: E.U.T: Equipment Under Test LISN: Line Impedence Stabilizatio Test table height=0.8m | ane EMI Receiver | ilter AC power | |
| Test Mode: | Refer to section 3.1 for | details | | le le |
| Test Procedure: | The E.U.T is connerimpedance stabilization 50ohm/50uH coupled equipment. The peripheral device through a LISN through a LISN through a LISN through a gram of the test set of the sides of A.C. liminterference. In order relative positions of emust be changed | tion network (L.I ling impedance es are also conne nat provides a nm termination. (I etup and photogr ne are checked f er to find the m equipment and al | S.N.). This prov for the mea ected to the main 50ohm/50uH co Please refer to the raphs). or maximum cont naximum emissio I of the interface | ides a suring power oupling block ducted n, the cables |
| | conducted measuren | nent. | | |

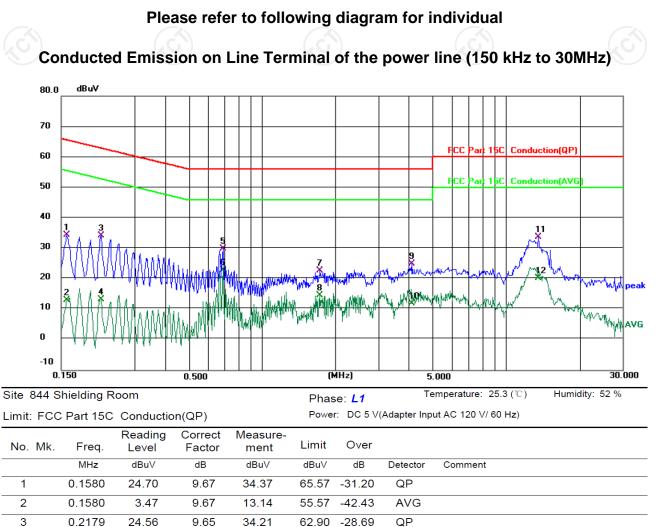
5.2.2. Test Instruments

| Cond | lucted Emission | Shielding R | oom Test Site (8 | 43) |
|-------------------|-----------------|-------------|------------------|-----------------|
| 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 | тст | CE-05 | 1 | Jun. 26, 2025 |
| EMI Test Software | EZ_EMC | EMEC-3A1 | 1.1.4.2 | 1 60 |



Hotline: 400-6611-140 Tel: 86-755-27673339 Fax: 86-755-27673332 http://www.tct-lab.com

5.2.3. Test data



| - | | 0.1000 | 0.11 | 0.01 | | 00.01 | 12.10 | | |
|----|---|---------|-------|-------|-------|-------|--------|-----|--|
| 3 | | 0.2179 | 24.56 | 9.65 | 34.21 | 62.90 | -28.69 | QP | |
| 4 | | 0.2179 | 3.68 | 9.65 | 13.33 | 52.90 | -39.57 | AVG | |
| 5 | | 0.6900 | 19.62 | 10.38 | 30.00 | 56.00 | -26.00 | QP | |
| 6 | * | 0.6900 | 12.66 | 10.38 | 23.04 | 46.00 | -22.96 | AVG | |
| 7 | | 1.7338 | 12.95 | 9.82 | 22.77 | 56.00 | -33.23 | QP | |
| 8 | | 1.7338 | 4.86 | 9.82 | 14.68 | 46.00 | -31.32 | AVG | |
| 9 | | 4.1180 | 14.84 | 10.10 | 24.94 | 56.00 | -31.06 | QP | |
| 10 | | 4.1180 | 1.73 | 10.10 | 11.83 | 46.00 | -34.17 | AVG | |
| 11 | | 13.5900 | 23.39 | 10.28 | 33.67 | 60.00 | -26.33 | QP | |
| 12 | | 13.5900 | 10.08 | 10.28 | 20.36 | 50.00 | -29.64 | AVG | |

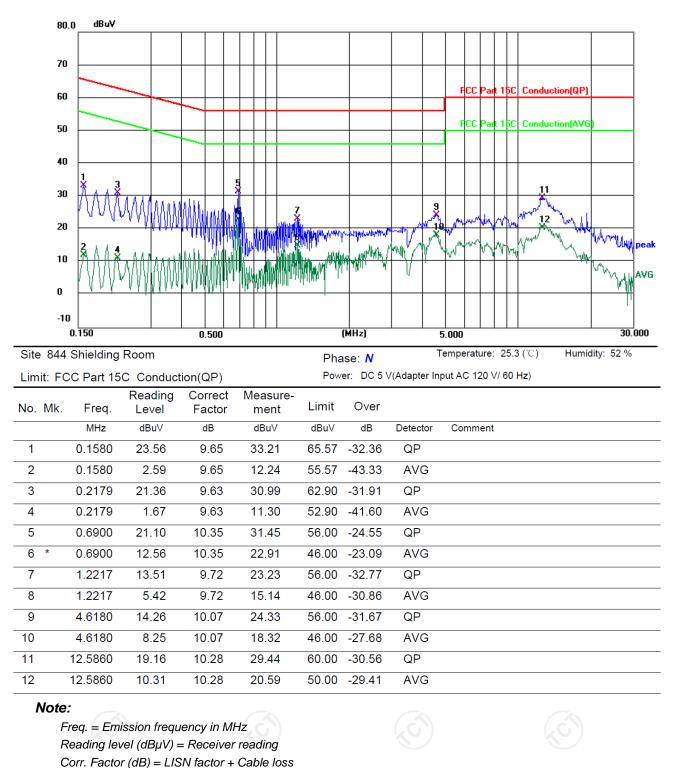
Note:

Freq. = Emission frequency in MHz Reading level $(dB\mu V)$ = Receiver reading Corr. Factor (dB) = LISN factor + Cable loss Measurement $(dB\mu V)$ = Reading level $(dB\mu V)$ + Corr. Factor (dB)Limit $(dB\mu V)$ = Limit stated in standard Margin (dB) = Measurement $(dB\mu V)$ – Limits $(dB\mu V)$ Q.P. =Quasi-Peak, AVG =average

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

Report No.: TCT240819E013

Page 11 of 26



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

Hotline: 400-6611-140 Tel: 86-755-27673339 Fax: 86-755-27673332 http://www.tct-lab.com

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

Measurement $(dB\mu V) = Reading \, level \, (dB\mu V) + Corr. Factor (dB)$

Limit $(dB\mu V) = Limit$ stated in standard

Q.P. =Quasi-Peak AVG =average

Margin (dB) = Measurement (dB μ V) – Limits (dB μ V)





5.3. Radiated Emission Measurement

5.3.1. Test Specification

| Test Requirement: | FCC Part15 | C Section | 15.22 | 25 | | |
|-----------------------|---|----------------------------|-----------------------|----------------------------------|--|--|
| Test Method: | ANSI C63.10 |): 2013 | | | | |
| Frequency Range: | 9 kHz to 100 | 0 MHz | | | | |
| Measurement Distance: | 3 m | 8 | 9 | | | No. |
| Antenna Polarization: | Horizontal & | Vertical | | | | |
| | Frequency | Detector | RB | W | VBW | Remark |
| Receiver Setup: | 9kHz- 150kHz 150kHz- 30MHz | Quasi-peak Quasi-peak | | | 1kHz 30kHz | Quasi-peak Valu Quasi-peak Valu |
| | 30MHz-1GHz | Quasi-peak | 120k | (Hz | 300kHz | Quasi-peak Valu |
| | FCC Part15 | | | | 0001112 | (.G) |
| | Frequer (MHz | ncy | Limi (uV/r @30r | it m | Limit (dBuV/n @3m) | n Detector |
| | 13.110-13 | 3.410 | 106 | | 80.5 | QP |
| | 13.410-13 | | 334 | | 90.5 | QP |
| | 13.553-13 | | 1584 | | 124.0 | QP |
| | 13.567-13.710 | | 334 | | 90.5 80.5 | QP QP |
| | Frequency Range Distan (MHz) | | :e (m) | Field | d strength | Defector |
| | | - | | (d | ΒμV/m) | Detector |
| | (MHz) 0.009-0.490 | - | | (d 2010 | _ | Detector QP |
| Limit: | | 3 | | (d 2010 (k 2010 | B µ V/m) og 2400/F | |
| Limit: | 0.009-0.490 | 3 | 3 | (d 2010 (k) 2010 (k) | B µ V/m) og 2400/F Hz) + 80 g 24000/F | QP |
| Limit: | 0.009-0.490 | 3 | 3 | (d 2010 (k) 2010 (k) | B μ V/m) og 2400/F Hz) + 80 g 24000/F Hz) + 40 | QP |
| Limit: | 0.009-0.490 0.490-1.705 1.705-30 | 3 | I) | (d 2010 (k) 2010 (k) | B µ V/m) og 2400/F Hz) + 80 g 24000/F Hz) + 40 og 30 + 40 | QP QP QP QP |
| Limit: | 0.009-0.490 0.490-1.705 1.705-30 30-88 | 3 | 3 | (d 2010 (k) 2010 (k) | B µ V/m) og 2400/F Hz) + 80 og 24000/F Hz) + 40 og 30 + 40 40.0 | QP QP QP QP QP |
| Limit: | 0.009-0.490 0.490-1.705 1.705-30 30-88 88-216 | 3 3 3 3 3 3 | 3 | (d 2010 (k) 2010 (k) | B µ V/m) og 2400/F Hz) + 80 g 24000/F Hz) + 40 og 30 + 40 40.0 43.5 | QP QP QP QP QP QP QP |

| TCT通测检测 TCT通测检测 | |
|---------------------------|--|
| TESTING CENTRE TECHNOLOGY | Report No.: TCT240819E013 |
| Test Procedure: | 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. The table was rotated 360 degrees to determine the position of the highest radiation. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. 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. 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. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. 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 |
| | Antenna Tower EUT Amtenna RF Test Receiver Turm 0.8m Im Ground Plane |
| Test Mode: | Refer to section 3.1 for details |

通测检测 TESTING CENTRE TECHNOLOGY

Report No.: TCT240819E013

Test results:

 C^{1}

PASS

5.3.2. Test Instruments

| Name of | Manufacturer | nission Test Site | Serial | Calibration Due |
|-------------------|---------------|-------------------|--------------------|-----------------|
| Equipment | Manufacturer | woder | Number | Calibration Due |
| EMI Test Receiver | R&S | ESCI7 | 100529 | Jan. 31, 2025 |
| Spectrum Analyzer | R&S | FSQ40 | 200061 | Jun. 26, 2025 |
| Pre-amplifier | SKET | LNPA_0118G- 45 | SK2021012 102 | Jan. 31, 2025 |
| Pre-amplifier | SKET | LNPA_1840G- 50 | SK2021092 03500 | Jan. 31, 2025 |
| Pre-amplifier | HPC | 8447D | 2727A05017 | Jun. 26, 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 | 1 | / |
| EMI Test Software | EZ_EMC | FA-03A2 RE+ | 1.1.4.2 | / |
| 5) (k | \mathcal{G} | (C) | (\mathbf{C}) | |







5.3.3. Test Data

Field Strength of Fundamental

| (| Frequency (MHz) | Emission (dBuV/m) | Limits (dBuV/m) | Detector | Margin (dB) |
|---|--------------------|----------------------|--------------------|----------|----------------|
| | 13.56 | 58.29 | 124.0 | QP | -65.71 |

Field Strength Within the bands 13.410-13.553 MHz and 13.567-13.710 MHz

| Frequency (MHz) | Emission Level dBuV/m@3m | Emission Level dBuV/m@30m | Limits dBuV/m@30m | Result |
|--------------------|-----------------------------|------------------------------|----------------------|--------|
| 13.434 | 48.18 | 8.18 | 50.47 | PASS 🤍 |
| 13.651 | 49.32 | 9.32 | 50.47 | PASS |

Field Strength Within the bands 13.110-13.410 MHz and 13.710-14.010

| (| Frequency (MHz) | Emission Level dBuV/m@3m | Emission Level dBuV/m@30m | Limits dBuV/m@30m | Result |
|---|--------------------|-----------------------------|------------------------------|----------------------|--------|
| | 13.256 | 45.86 | 5.86 | 40.50 | PASS |
| | 13.985 | 47.09 | 7.09 | 40.50 | PASS |
| | | | | | |

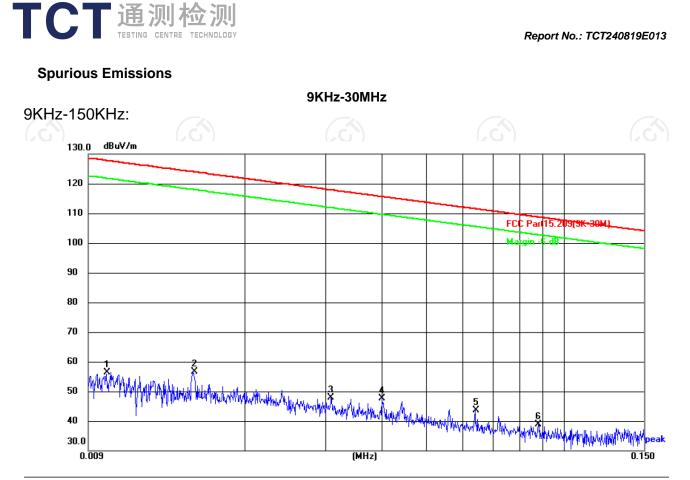












Site: 3m Anechoic Chamber Polarization: *Horizontal* Temperature: 24.8(°C)

Limit: FCC Part15.209(9K-30M)

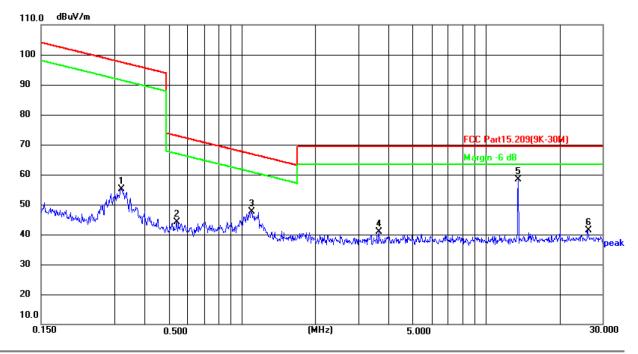
Power:DC 7.4 V

| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | | Margin (dB) | Detector | P/F | Remark |
|-----|--------------------|-------------------|------------------|-------------------|--------|----------------|----------|-----|--------|
| 1 | 0.0100 | 35.73 | 20.53 | 56.26 | 127.60 | -71.34 | peak | Ρ | |
| 2 * | 0.0152 | 36.07 | 20.55 | <u>56.62</u> | 123.97 | -67.35 | peak | Ρ | |
| 3 | 0.0308 | 27.40 | 20.57 | 47.97 | 117.83 | -69.86 | peak | Ρ | |
| 4 | 0.0398 | 27.28 | 20.45 | 47.73 | 115.61 | -67.88 | peak | Ρ | |
| 5 | 0.0639 | 23.38 | 20.27 | 43.65 | 111.49 | -67.84 | peak | Ρ | |
| 6 | 0.0879 | 18.55 | 20.40 | 38.95 | 108.72 | -69.77 | peak | Ρ | |

Page 16 of 26

Humidity: 51 %

150KHz-30MHz:



Site: 3m Anechoic ChamberPolarization: HorizontalTemperature: 24.8(°C)Humidity: 51 %

Limit: FCC Part15.209(9K-30M)

Power:DC 7.4 V

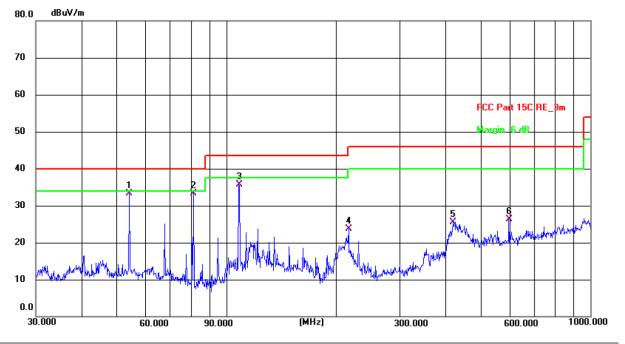
| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | P/F | Remark |
|-----|--------------------|-------------------|------------------|-------------------|-------------------|----------------|----------|-----|--------|
| 1 | 0.3191 | 34.10 | 21.03 | 55.13 | 97.53 | -42.40 | peak | Ρ | |
| 2 | 0.5410 | 22.81 | 21.43 | 44.24 | 72.94 | -28.70 | peak | Ρ | |
| 3 | 1.0945 | 25.16 | 22.54 | 47.70 | 66.84 | -19.14 | peak | Р | |
| 4 | 3.6562 | 12.97 | 27.83 | 40.80 | 69.50 | -28.70 | peak | Р | |
| 5 * | 13.5710 | 37.84 | 20.45 | 58.29 | 69.50 | -11.21 | peak | Ρ | |
| 6 | 26.1393 | 21.36 | 20.05 | 41.41 | 69.50 | -28.09 | peak | Р | |

Note : 1) Emission Level=Peak Reading + Correction Factor; Correction Factor= Antenna Factor + Cable loss – Pre-amplifier

Page 17 of 26

Report No.: TCT240819E013

Horizontal:



Site 3m Anechoic Chamber2Polarization:HorizontalTemperature: 24.8(C)Humidity: 52 %Limit: FCC Part 15C RE 3mPower: DC 7.4 V

| Ţ | | 001 411 1001 | | | | | | | | |
|---|-----|--------------------|-------------------|------------------|-------------------|-------------------|----------------|----------|-----|--------|
| | No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | P/F | Remark |
| | 1 | 54.2608 | 52.26 | -19.01 | 33.25 | 40.00 | -6.75 | QP | Р | |
| ſ | 2 * | 81.2116 | 55.86 | -22.56 | 33.30 | 40.00 | -6.70 | QP | Р | |
| Γ | 3 | 108.2665 | 56.28 | -20.63 | 35.65 | 43.50 | -7.85 | QP | Р | |
| Γ | 4 | 216.7828 | 44.44 | -20.69 | 23.75 | 46.00 | -22.25 | QP | Р | |
| | 5 | 419.1080 | 39.85 | -14.28 | 25.57 | 46.00 | -20.43 | QP | Р | |
| | 6 | 597.2233 | 36.40 | -10.00 | 26.40 | 46.00 | -19.60 | QP | Р | |

(C)





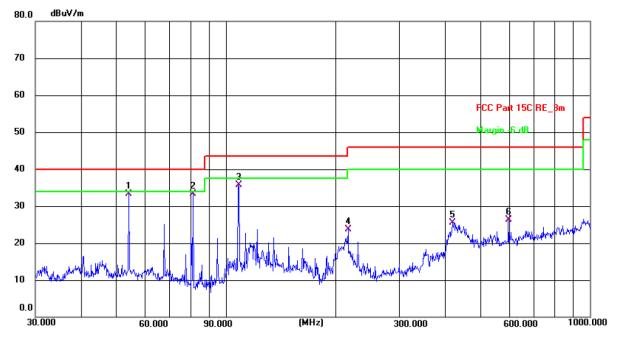


Report No.: TCT240819E013



Page 18 of 26

Vertical:



Site 3m Anechoic Chamber2Polarization:VerticalTemperature: 24.8(C)Humidity: 52 %

Limit: FCC Part 15C RE_3m

Power: DC 7.4 V

| - | | | | | | | | | | |
|---|-----|--------------------|-------------------|------------------|-------------------|-------------------|----------------|----------|-----|--------|
| | No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | P/F | Remark |
| Γ | 1 | 54.2608 | 52.26 | -19.01 | 33.25 | 40.00 | -6.75 | QP | Ρ | |
| Γ | 2 * | 81.2116 | 55.86 | -22.56 | 33.30 | 40.00 | -6.70 | QP | Ρ | |
| Γ | 3 | 108.2665 | 56.28 | -20.63 | 35.65 | 43.50 | -7.85 | QP | Ρ | |
| Γ | 4 | 216.7828 | 44.44 | -20.69 | 23.75 | 46.00 | -22.25 | QP | Ρ | |
| Γ | 5 | 419.1080 | 39.85 | -14.28 | 25.57 | 46.00 | -20.43 | QP | Ρ | |
| | 6 | 597.2233 | 36.40 | -10.00 | 26.40 | 46.00 | -19.60 | QP | Ρ | |

Note : 1) Emission Level=Peak Reading + Correction Factor; Correction Factor= Antenna Factor + Cable loss – Pre-amplifier

- D -

Page 19 of 26

Report No.: TCT240819E013

5.4. Occupied Bandwidth

5.4.1. Test Specification

| Test Requirement: | FCC Part15 C Section 15.215(c) |
|-------------------|--|
| Test Method: | ANSI C63.10: 2013 |
| Limit: | N/A |
| Test Procedure: | According to the follow Test-setup, keep the relative position between the artificial antenna and the EUT. Set to the maximum power setting and enable the EUT transmit continuously. Use the following spectrum analyzer settings for 20dB Bandwidth measurement. Span = approximately 2 to 3 times the 20 dB bandwidth, centered on a hopping channel; RBW≥1% of the 20 dB bandwidth; VBW≥RBW; Sweep = auto; Detector function = peak; Trace = max hold. Measure and record the results in the test report. |
| Test setup: | Spectrum Analyzer EUT |
| Test Mode: | Refer to section 3.1 for details |
| Test results: | PASS |

5.4.2. Test Instruments

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



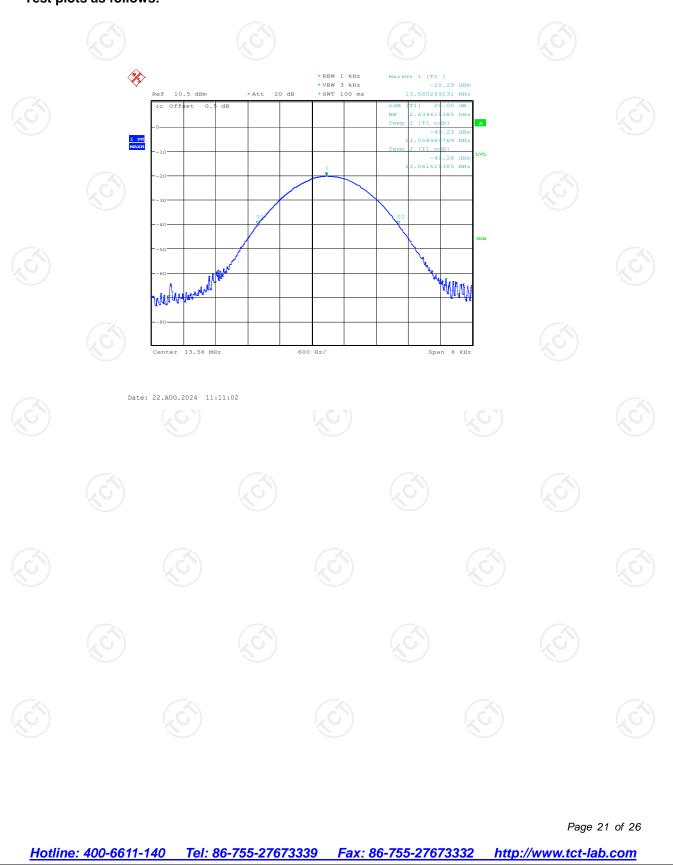
Report No.: TCT240819E013

Page 20 of 26

5.4.3. Test data

| Report No.: TCT240819E013 |
|---------------------------|
|---------------------------|

| Frequency(MHz |) 20dB Occupy Bandwidth (kHz) | Limit (kHz) | Conclusion |
|-----------------------|----------------------------------|-------------|------------|
| 13.56 | 2.63 | 5) (| PASS |
| Test plots as follows | · | | |
| | | | |



5.5. Frequency stability

5.5.1. Test Specification

| Test Requirement: | FCC Part15 C Section 15.225 | | | |
|-------------------|--|--|--|--|
| Test Method: | ANSI C63.10 : 2013 | | | |
| Operation mode: | Refer to item 3.1 | | | |
| Limit: | +/-0.01% | | | |
| Test Setup: | Spectrum Analyzer Thermal Chamber | | | |
| Test Procedure: | The equipment under test was connected to an external DC power supply and input rated voltage. RF output was connected to a spectrum analyzer. The EUT was placed inside the temperature chamber Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and measure EUT 20°C operating frequency as reference frequency. Turn EUT off and set the chamber temperature to -20°C. After the temperature stabilized for approximately 30 minutes recorded the frequency. Repeat step measure with 10°C increased per stage until the highest temperature of +55°C reached. Repeat step measure with a variation in the primary supply voltage from 85% to 115% of the rated supply | | | |
| Test Result: | voltage at a temperature of 20 degrees C 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 | | |
| DC power supply | Kingrang | KR3005K | () 1 | Jun. 26, 2025 | | |

5.5.3. Test Data

| Voltage (Vdc) | Temperature (℃) | Frequency (MHz) | Deviation (%) | Limit (%) |
|------------------|--------------------|--------------------|------------------|--------------------------|
| 7.4 | -20 | 13.559769 | -0.00170 | |
| 7.4 | -10 | 13.559764 | -0.00174 | |
| 7.4 | 0 | 13.559769 | -0.00170 | |
| 7.4 | 10 | 13.559755 | -0.00181 | |
| 7.4 | 20 | 13.559768 | -0.00171 | $(\mathbf{x}\mathbf{G})$ |
| 7.4 | 30 | 13.559753 | -0.00182 | +/-0.01% |
| 7.4 | 40 | 13.559759 | -0.00178 | |
| 7.4 | 50 | 13.559751 | -0.00184 | |
| 7.4 | 55 | 13.559758 | -0.00178 | |
| 8.51 | 20 | 13.559760 | -0.00177 | |
| 6.29 | 20 | 13.559751 | -0.00184 | |
| | | | | |

Page 23 of 26

Report No.: TCT240819E013

Hotline: 400-6611-140 Tel: 86-755-27673339 Fax: 86-755-27673332 http://www.tct-lab.com

