

CERTIFICATION TEST REPORT

Report Number. : 4791253700-FR1V3

Applicant : SEGI LIMITED
15/F, Eastern Central Plaza, 3 Yiu Hing Road, Shau Kei Wan, Hong Kong
Island Hong Kong

Model : 1WG18R-AM

FCC ID : VA5REN510-1WAM

IC : 7087A-1WREN510AM

EUT Description : Keyless Entry System

Test Standard(s) : FCC Part 15.231, RSS-210 issue 10

Test Method Used : ANSI C63.10-2013

Date Of Issue:

June 14, 2024

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Revision History

| Rev. | Issue Date | Revisions | Revised By |
|------|--------------|-----------------------------------|---------------|
| V1 | May-08-2024 | Initial issue | Jaehyeok Bang |
| V2 | May-20-2024 | Updated to address TCB's question | Jaehyeok Bang |
| V3 | June-14-2024 | The address has been updated. | Jaehyeok Bang |

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1. ATTESTATION OF TEST RESULTS

COMPANY NAME: SEGI LIMITED
EUT DESCRIPTION: Keyless Entry System
MODEL NUMBER: 1WG18R-AM
SERIAL NUMBER: Identical prototype
DATE TESTED: April-19 ~ May-08-2024, May-17-2024

| APPLICABLE STANDARDS | |
|--------------------------|--------------|
| STANDARD | TEST RESULTS |
| CFR 47 Part 15 Subpart C | Pass |
| RSS-GEN / RSS-210 | |

UL Korea, Ltd. tested the above equipment in accordance with the requirements set forth in the above standards. All indications of Pass/Fail in this report are opinions expressed by UL Korea, Ltd. based on interpretations and/or observations of test results. Measurement Uncertainties were not taken into account and are published for informational purposes only. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.

Note: The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein. This document may not be altered or revised in any way unless done so by UL Korea, Ltd. and all revisions are duly noted in the revisions section. Any alteration of this document not carried out by UL Korea, Ltd. will constitute fraud and shall nullify the document. This report must not be used by the client to claim product certification, approval, or endorsement by IAS, any agency of the Federal Government, or any agency of any government.

Approved & Released For
UL Korea, Ltd. By:

Tested By:



Changmin Kim
Senior Laboratory Engineer
UL Korea, Ltd.



Jaehyeok Bang
Laboratory Test Engineer
UL Korea, Ltd.

2. TEST METHODOLOGY

1. FCC CFR 47 Part 2.
2. FCC CFR 47 Part 15.231
3. IC RSS-GEN Issue 5
4. IC RSS-210 Issue 10
5. ANSI C63.10-2013.

3. FACILITIES AND ACCREDITATION

The test sites and measurement facilities used to collect data are located at 42, Obongsandan 1-ro, Uiwang-si, Gyeonggi-do, Republic of Korea. Line conducted emissions are measured only at the 218 address. The following table identifies which facilities were utilized for radiated emission measurements documented in this report. Specific facilities are also identified in the test results sections.

| 42, Obongsandan 1-ro | |
|-------------------------------------|-----------|
| <input type="checkbox"/> | Chamber 1 |
| <input checked="" type="checkbox"/> | Chamber 2 |

Used ISED Test Site Reg.(company number): 32001
CAB Identifier: KR0161

UL Korea, Ltd. is accredited by IAS, Laboratory Code TL-1087. The full scope of accreditation can be viewed at <https://www.iasonline.org/wp-content/uploads/2022/05/TL-1087-Cert-New.pdf>

4. CALIBRATION AND UNCERTAINTY

4.1. MEASURING INSTRUMENT CALIBRATION

The measuring equipment utilized to perform the tests documented in this report has been calibrated in accordance with the manufacturer's recommendations, and is traceable to recognized national standards.

4.2. SAMPLE CALCULATION

Where relevant, the following sample calculation is provided:

$$\begin{aligned} \text{Field Strength (dBuV/m)} &= \text{Measured Voltage (dBuV)} + \text{Antenna Factor (dB/m)} + \\ &\text{Cable Loss (dB)} - \text{Preamplifier Gain (dB)} \\ 28.9 \text{ dBuV/m} &= 36.5 \text{ dBuV} + 18.7 \text{ dB/m} + 0.6 \text{ dB} - 26.9 \text{ dB} \end{aligned}$$

4.3. MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus:

| PARAMETER | UNCERTAINTY |
|---------------------------------------|-------------|
| Occupied Bandwidth | 0.07 % |
| Conducted Emissions | 2.32 dB |
| Radiated Disturbance, 9 kHz to 30 MHz | 1.66 dB |
| Radiated Disturbance, 30 MHz to 1 GHz | 3.67 dB |
| Radiated Disturbance, 1 GHz to 18 GHz | 5.39 dB |

Uncertainty figures are valid to a confidence level of 95%.

4.4. DECISION RULE

Decision rule for statement(s) of conformity is based on Clause 4.3.3 in IEC Guide 115:2023. Measurement Uncertainty is not applied when providing statements of conformity in accordance with IEC Guide 115:2023, 4.3.3

5. EQUIPMENT UNDER TEST

5.1. EUT DESCRIPTION

The EUT is a Keyless Entry System and operating under FCC Part 15.231 & RSS-210 Annex A

5.2. MAXIMUM FIELD STRENGTH

The transmitter has a maximum fundamental field strength power as follows:

| Frequency [MHz] | Maximum Fundamental field strength Power [dBuV/m] | |
|--------------------|---|---------|
| | PEAK | AVERAGE |
| 433.92 | 84.63 | 77.25 |

5.3. DESCRIPTION OF AVAILABLE ANTENNAS

An intentional radiator antenna shall be designed to ensure that no antenna other than that furnished by the responsible party can be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section.

**The internal antenna was Permanently attached.
Therefore this E.U.T Complies with the requirement of §15.203.**

The radio utilizes an internal antenna, with a maximum gain of -4.09 dBi

5.4. WORST-CASE CONFIGURATION AND MODE

Radiated emission was performed with the EUT set to transmit at the single frequency (433.92 MHz). Power line conducted emission was not performed since this device using un-rechargeable battery.

The fundamental and radiated spurious emission were investigated in three orthogonal orientations X, Y and Z. It was determined that below orientation was worst-case orientation for each antenna.

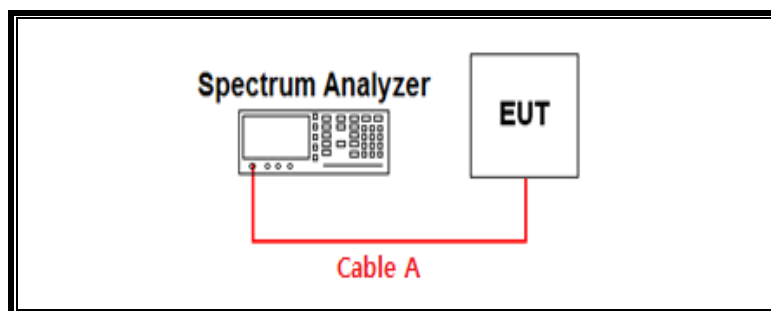
| Antenna | Worst Case | | |
|----------------------------|----------------------------|---|---|
| | X | Y | Z |
| Fundamental(433.92MHz) | O | - | - |
| Radiated spurious emission | Please see the tested data | | |

5.5. DESCRIPTION OF TEST SETUP

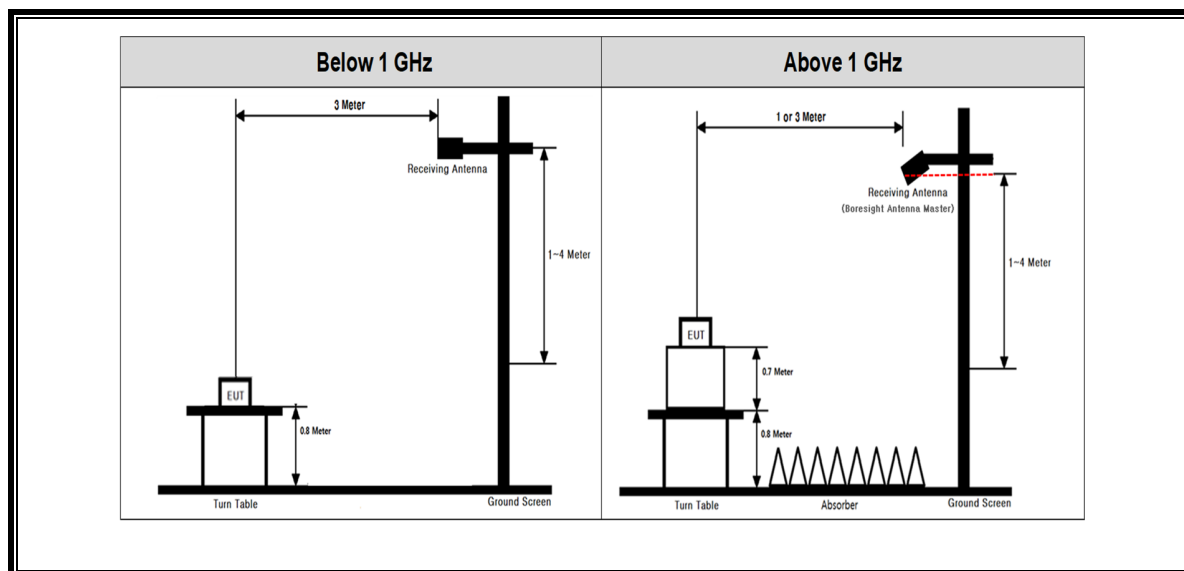
TEST SETUP

The EUT is a stand-alone unit during the tests.

SETUP DIAGRAM FOR TESTS (CONDUCTED TEST SETUP)



SETUP DIAGRAM FOR TESTS (RADIATED TEST SETUP)



6. TEST AND MEASUREMENT EQUIPMENT

The following test and measurement equipment was utilized for the tests documented in this report:

| Description | Manufacturer | Model | Identifier | Cal. Due | Next Cal. Due |
|----------------------------------|-----------------|----------------------------|-----------------|------------|---------------|
| Spectrum Analyzer | Rohde & Schwarz | FSW50 | 101567 | 2023-08-08 | 2024-08-08 |
| DC Power Supply | KIKUSUI | PWR1201ML | DN002200 | 2023-07-28 | 2024-07-28 |
| Signal Generator | Rohde & Schwarz | SMB100A | 184060 | 2023-07-26 | 2024-07-26 |
| EMI test Receiver | Rohde & Schwarz | ESW44 | 103313 | 2024-01-29 | 2025-01-29 |
| Loop Antenna | TESEQ | HLA6121 | 65111 | 2024-08-01 | 2025-08-01 |
| TRILOG BROADBAND ANTENNA | Schwarzbeck | VULB9163 | 1661 | 2024-03-18 | 2026-03-18 |
| Signal Conditioning Unit | Rohde & Schwarz | SCU01F | 100316 | 2024-03-22 | 2025-03-22 |
| Double-Ridged Guide Antenna | ETS Lindgren | 3117 | 261463 | 2023-10-04 | 2024-10-04 |
| Amplifier | BNZ | BZR-01001800-231040-182020 | 28452 | 2024-04-08 | 2025-04-08 |
| High Pass Filter | Micro-Tronics | HPM50115-02 | G41 | 2024-03-22 | 2025-03-22 |
| High Pass Filter | Mini-Circuits | NHP-800+ | VUU47701636 | 2024-01-02 | 2025-01-02 |
| Humidity/Baro/Temp DATA RECORDER | Lutron | MHB-382SD | AL.92208 | 2023-10-20 | 2024-10-20 |
| Humidity/Baro/Temp DATA RECORDER | Lutron | MHB-382SD | AM.00227 | 2024-01-11 | 2025-01-11 |
| Attn Switch | Agilent | 11713A | 3748A09520 | N/A | N/A |
| Toyo EMI Software | Toyo | EP5RE | Version 6.0.130 | N/A | N/A |

7. SUMMARY TABLE

| FCC Part Section | IC Section | Test Description | Test Limit | Test Condition | Test Result |
|------------------|------------------------|--|--|----------------------|-------------------------|
| 15.231 (c) | - | 20dB bandwidth | no wider than 0.25% of the center frequency for device | Conducted | PASS |
| - | RSS-210 [A1.3] | Occupied bandwidth(99%) | no wider than 0.25% of the center frequency for device | | PASS |
| 15.231 (a)(1) | RSS-210 [A1.1] | Automatically deactivate | < 5s | | PASS |
| 15.231 (b) | RSS-210 [A1.2] | Field strength of fundamental and spurious emissions | Fundamental: < 100.82 dBuV/m(Pk) < 80.82 dBuV/m(Av) | Radiated | PASS |
| | | | Spurious emission: < 80.82 dBuV/m(Pk) < 60.82 dBuV/m(Av) | | |
| 15.205, 15.209 | RSS-GEN [8.9] & [8.10] | General field strength limits(restricted bands and radiated emission limits) | Spurious emission: < 74 dBuV/m(PK) < 54 dBuV/m(AV) | | PASS |
| 15.207 (a) | RSS-GEN [8.8] | AC Power Line conducted emissions | Section 11 | Power Line conducted | N/P ^(Note 1) |

Note 1. AC Power line conducted emission was not performed since this device using un-rechargeable battery.

8. CONDUCTED TEST RESULTS

8.1. 99% & 20 dB BANDWIDTH

LIMITS

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.

TEST PROCEDURE

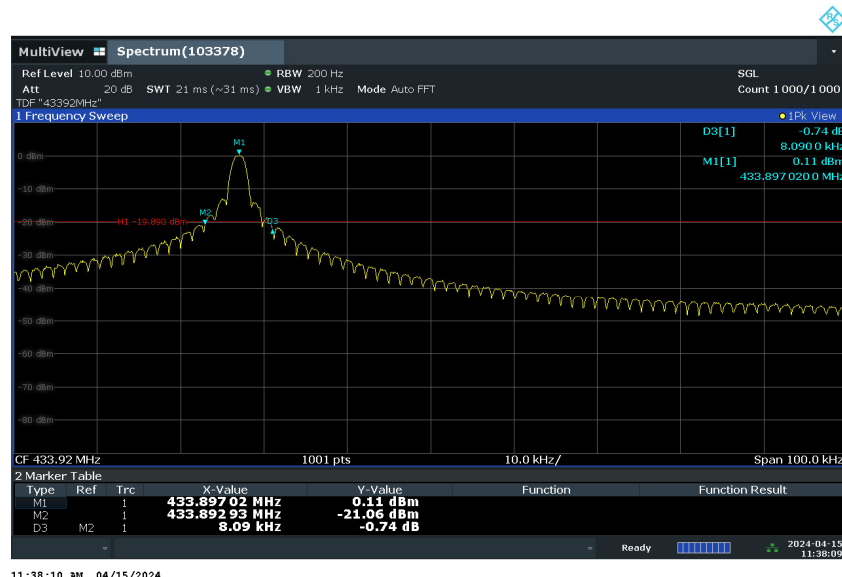
The transmitter Output is connected to the Spectrum Analyzer and used following test procedure of ANSI 63.10-2013.

The transmitter output is connected to the spectrum analyzer. The RBW is set to 1% to 5% of the 99 % bandwidth and to 1% of the span. The VBW is set to 3 times the RBW. The sweep time is coupled. The spectrum analyzer internal 99% bandwidth function is utilized.

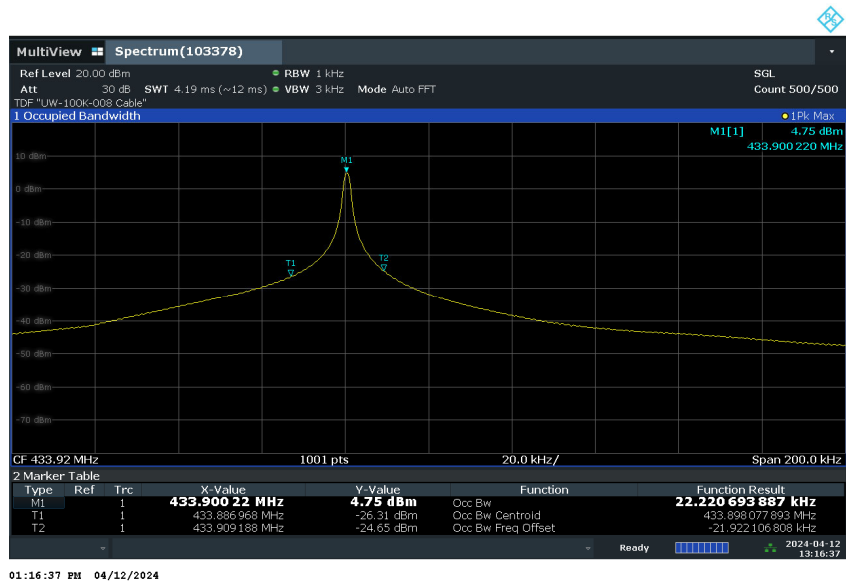
RESULTS

| Channel | Frequency [MHz] | 20 dB Bandwidth [kHz] | 99 % Bandwidth [kHz] | Limit [kHz] |
|----------------|-----------------|-----------------------|----------------------|-------------|
| Single channel | 433.92 | 8.09 | 22.22 | 1084.80 |

20 dB BANDWIDTH PLOTS



99% BANDWIDTH PLOTS



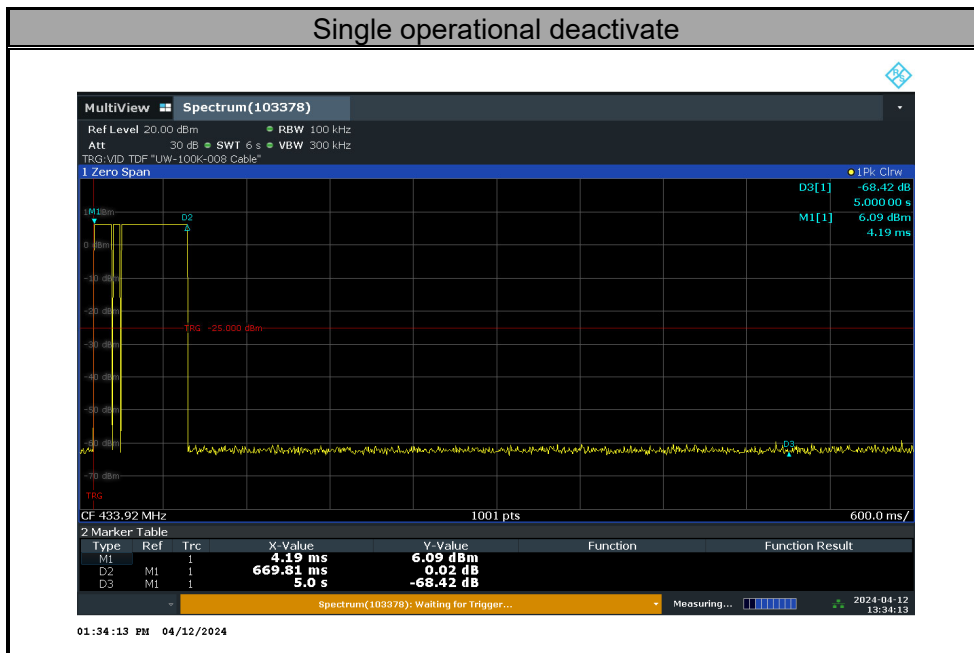
8.2. AUTOMATICALLY DEACTIVATE

LIMITS

FCC §15.231 (a) & RSS-210 Annex A.1.1

A manually operated transmitter shall employ a switch that will automatically deactivate the transmitter within not more than 5 seconds of being released.

RESULTS



| Single operational time[s] | Limit[s] |
|----------------------------|----------|
| 0.669 | 5 |

9. RADIATED TEST RESULTS

LIMITS

FCC §15.205 and §15.209, §15.231 (b), RSS-210 Annex A1.2

| Limits for radiated disturbance of an intentional radiator | | |
|--|-----------------|--------------------------|
| Frequency range (MHz) | Limits (µV/m) | Measurement Distance (m) |
| 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 |

** 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 other sections of this part, e.g. §§ 15.231 and 15.241.

FCC Part 15.205 (a) : Only spurious emissions are permitted in any of the frequency bands listed below :

| MHz | MHz | MHz | MHz | GHz | GHz |
|-------------------|---------------------|-------------------|-----------------|--------------|---------------|
| 0.009 ~ 0.110 | 8.41425 ~ 8.41475 | 108 ~ 121.94 | 1300 ~ 1427 | 4.5 ~ 5.15 | 14.47 ~ 14.5 |
| 0.495 ~ 0.505 | 12.29 ~ 12.293 | 123 ~ 138 | 1435 ~ 1626.5 | 5.35 ~ 5.46 | 15.35 ~ 16.2 |
| 2.1735 ~ 2.1905 | 12.51975 ~ 12.52025 | 149.9 ~ 150.05 | 1645.5 ~ 1646.5 | 7.25 ~ 7.75 | 17.7 ~ 21.4 |
| 4.125 ~ 4.128 | 12.57675 ~ 12.57725 | 156.52475 ~ | 1660 ~ 1710 | 8.025 ~ 8.5 | 22.01 ~ 23.12 |
| 4.17725 ~ 4.17775 | 13.36 ~ 13.41 | 156.52525 | 1718.8 ~ 1722.2 | 9.0 ~ 9.2 | 23.6 ~ 24.0 |
| 4.20725 ~ 4.20775 | 16.42 ~ 16.423 | 156.7 ~ 156.9 | 2200 ~ 2300 | 9.3 ~ 9.5 | 31.2 ~ 31.8 |
| 6.215 ~ 6.218 | 16.69475 ~ 16.69525 | 162.0125 ~ 167.17 | 2310 ~ 2390 | 10.6 ~ 12.7 | 36.43 ~ 36.5 |
| 6.26775 ~ 6.26825 | 16.80425 ~ 16.80475 | 167.72 ~ 173.2 | 2483.5 ~ 2500 | 13.25 ~ 13.4 | Above 38.6 |
| 6.31175 ~ 6.31225 | 25.5 ~ 25.67 | 240 ~ 285 | 2655 ~ 2900 | | |
| 8.291 ~ 8.294 | 37.5 ~ 38.25 | 322 ~ 335.4 | 3260 ~ 3267 | | |
| 8.362 ~ 8.366 | 73 ~ 74.6 | 399.90 ~ 410 | 3332 ~ 3339 | | |
| 8.37625 ~ 8.38675 | 74.8 ~ 75.2 | 608 ~ 614 | 3345.8 ~ 3358 | | |
| | | 960 ~ 1240 | 3600 ~ 4400 | | |

▪ FCC Part 15.205(b) : The field strength of emissions appearing within these frequency bands shall not exceed the limits shown in §15.209. At frequencies equal to or less than 1000 MHz, compliance with the limits in §15.209 shall be demonstrated using measurement instrumentation employing a CISPR quasi-peak detector. Above 1000 MHz, compliance with the emission limits in §15.209 shall be demonstrated based on the average value of the measured emissions. The provisions in §15.35 apply to these measurements.

| FCC §15.231 & RSS-210 Annex A1.2 | | | |
|----------------------------------|-----------------|--------------------------------------|---|
| Fundamental Frequency (MHz) | | Field strength of fundamental (μV/m) | Field strength of spurious Emissions (μV/m) |
| For FCC | For IC(RSS-Gen) | | |
| 40.66-40.70 | - | 2,250 | 225 |
| 70-130 | 70-130 | 1,250 | 125 |
| 130-174 | 130-174 | 1,250 to 3,750* | 125 to 375 |
| 174-260 | 174-260 | 3,750 | 375 |
| 260-470 | 260-470 | 3,750 to 12,500* | 375 to 1,250 |
| Above 470 | Above 470 | 12,500 | 1,250 |

* Linear interpolation with Frequency, f, in MHz;

- For 130-174 MHz: field Strength (uV/m) = (56.82 x f)-6136
- For 260-470 MHz: field Strength (uV/m) = (41.67 x f)-7083

TEST PROCEDURE

The EUT is placed on a non-conducting table 80 cm above the ground plane for below 1 GHz and 150 cm for above 1 GHz. The antenna to EUT distance is 3 meters. The EUT is configured in accordance with ANSI C63.10. The EUT is set to transmit in a continuous mode.

For measurements below 1 GHz the resolution bandwidth is set to 100 kHz for peak detection measurements or 120 kHz for quasi-peak detection measurements. Peak detection is used unless otherwise noted as quasi-peak.






For measurements above 1 GHz the resolution bandwidth is set to 1 MHz; the video bandwidth is set to 3 MHz for peak measurements and add duty cycle factor for average calculations.

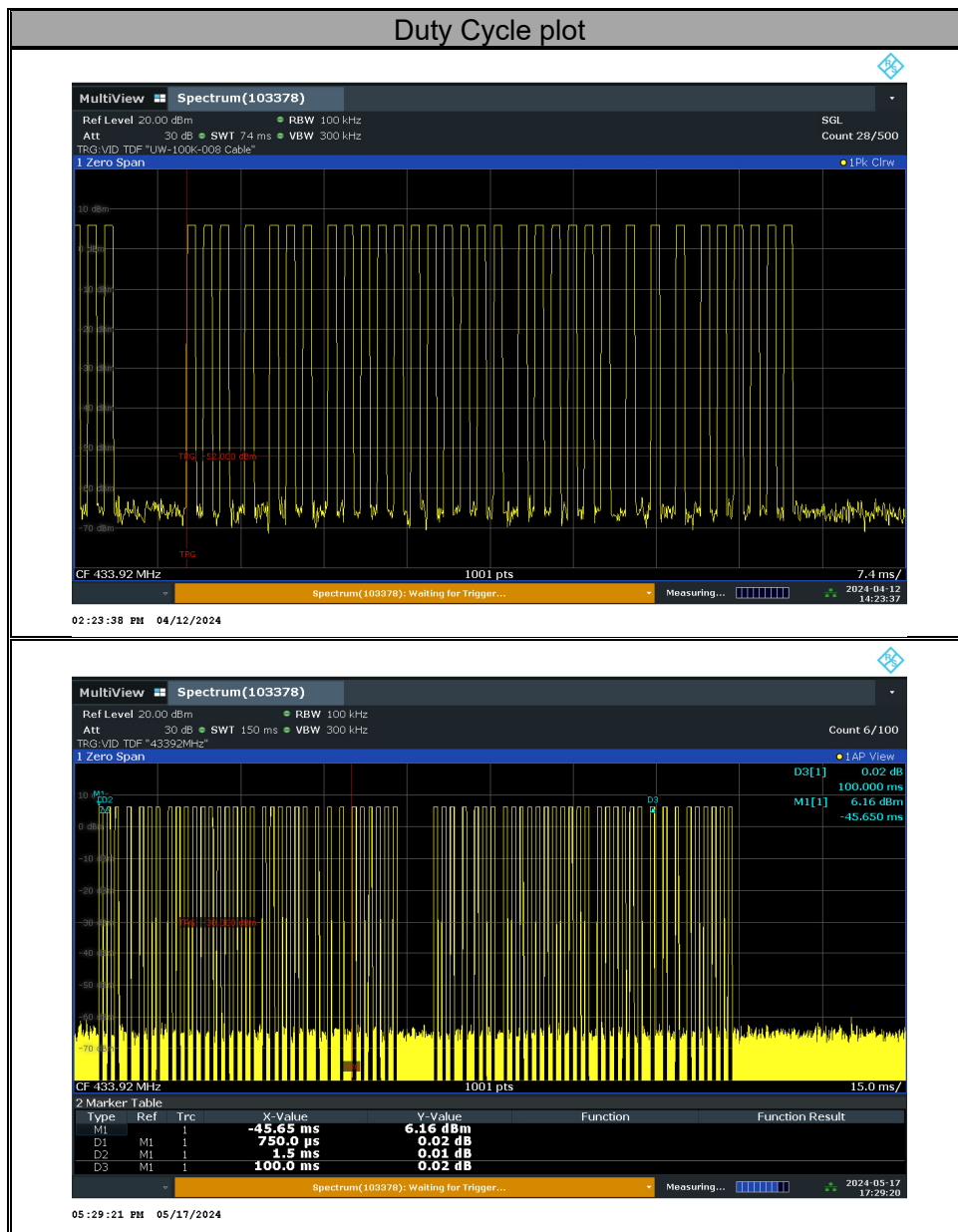
$$\text{Total Average Factor} = 20 \log \frac{42.75}{100} \text{ dB} \\ = -7.38 \text{ dB}$$

$$42.75 \text{ ms} = \text{Worst on time}(0.750 \text{ us}) * \text{Number of on times within 100ms (57 ea)}$$

$$\text{Total Average Factor} = -7.38 \text{ dB}$$

Declared Worst Data Format of 1 Word

| Transmission Data Format | |
|--------------------------|---|
| Data Format | SYNC  740 usec / 6680 usec |
| | Low Bit  740 usec / 740 usec |
| | High Bit  740 usec / 1480 usec |
| | End  740 usec |
| 1Word Data Format |  |
| Content | <ul style="list-style-type: none"> - Total Number Of Data : 33 EA - 1 Word Data Time Length : 54.76 msec ~ 77.70 msec - At One time press button to transmit data of 11 words - 11 Words Data Time Length : 602.36 msec ~ 854.70 msec |





Pre-scans to detect harmonic and spurious emissions, the resolution bandwidth is set to 1 MHz; the video bandwidth is set to 3 MHz for peak measurements.

The spectrum from 30MHz to 1GHz is investigated with the transmitter set to 433.92 MHz. (From 1 GHz to 5 GHz, test was performed with the EUT set to transmit at the position with highest output power)

The frequency range of interest is monitored at a fixed antenna height and EUT azimuth. The EUT is rotated through 360 degrees to maximize emissions received. The antenna is scanned from 1 to 4 meters above the ground plane to further maximize the emission. Measurements are made with the antenna polarized in both the vertical and the horizontal positions.

Note : Emission was pre-scanned from 9 kHz to 30 MHz; No emissions were detected which was at least 20dB below the specification limit (consider distance correction factor). Per FCC part 15.31(o), test results were not reported.

Although these tests were performed other than open field test site, adequate comparison measurements were confirmed against 30 m open field test site. Therefore sufficient tests were made to demonstrate that the alternative site produces results that correlate with the one of tests made in an open field based on KDB 414788.

9.1. Field strength of fundamental and spurious emissions

Radiated Emissions data

Note 1. The result of Average measurement was calculated using PK result and duty cycle reduction factor.

Note 2. * is fundamental frequency. And # is spurious emission at restricted band.

The spurious emission was confirmed to be related to the fundamental emissions.

Note 3. No other spurious and harmonic emissions were reported greater than listed emissions above table.

Note 4. Sample calculation

$T.F = AF + CL - AG$ / $\text{Field Strength} = \text{Reading} + T.F + DCF$

Margin = Limit – Field Strength

Where, T.F = Total Factor, AF= Antenna Factor, CL = Cable Loss, AG = Amplifier Gain

DCF = Duty cycle reduction factor

| Frequency [MHz] | Detector Mode | EUT Position | ANT Pol | Reading [dBuV] | T.F [dB/m] | DCF [dB] | Field Strength [dBuV/m] | Limit [dBuV/m] | Margin [dB] |
|-----------------|---------------|--------------|---------|----------------|------------|----------|-------------------------|----------------|-------------|
| 433.96* | PK | X | H | 60.00 | 24.63 | N/A | 84.63 | 100.82 | 16.19 |
| 433.96* | AV | X | H | 60.00 | 24.63 | -7.38 | 77.25 | 80.82 | 3.57 |
| 867.91 | PK | X | H | 45.02 | 3.93 | N/A | 48.95 | 80.82 | 31.87 |
| 867.91 | AV | X | H | 45.02 | 3.93 | -7.38 | 41.57 | 60.82 | 19.25 |
| 1 301.84# | PK | X | H | 50.77 | -9.78 | N/A | 40.99 | 74.00 | 33.01 |
| 1 301.84# | AV | X | H | 50.77 | -9.78 | -7.38 | 33.61 | 54.00 | 20.39 |
| 1 735.82 | PK | Z | V | 52.30 | -7.78 | N/A | 44.52 | 80.82 | 36.30 |
| 1 735.82 | AV | Z | V | 52.30 | -7.78 | -7.38 | 37.14 | 60.82 | 23.68 |
| 2 169.78 | PK | Y | H | 53.80 | -5.41 | N/A | 48.39 | 80.82 | 32.43 |
| 2 169.78 | AV | Y | H | 53.80 | -5.41 | -7.38 | 41.01 | 60.82 | 19.81 |
| 2 603.73 | PK | Z | H | 62.08 | -3.92 | N/A | 58.16 | 80.82 | 22.66 |
| 2 603.73 | AV | Z | H | 62.08 | -3.92 | -7.38 | 50.78 | 60.82 | 10.04 |
| 3 037.64 | PK | X | H | 62.05 | -2.68 | N/A | 59.37 | 80.82 | 21.45 |
| 3 037.64 | AV | X | H | 62.05 | -2.68 | -7.38 | 51.99 | 60.82 | 8.83 |
| 3 471.61 | PK | Z | H | 49.48 | -2.09 | N/A | 47.39 | 80.82 | 33.43 |
| 3 471.61 | AV | Z | H | 49.48 | -2.09 | -7.38 | 40.01 | 60.82 | 20.81 |
| 4 339.48# | PK | Z | H | 47.94 | 1.19 | N/A | 49.13 | 74.00 | 24.87 |
| 4 339.48# | AV | Z | H | 47.94 | 1.19 | -7.38 | 41.75 | 54.00 | 12.25 |

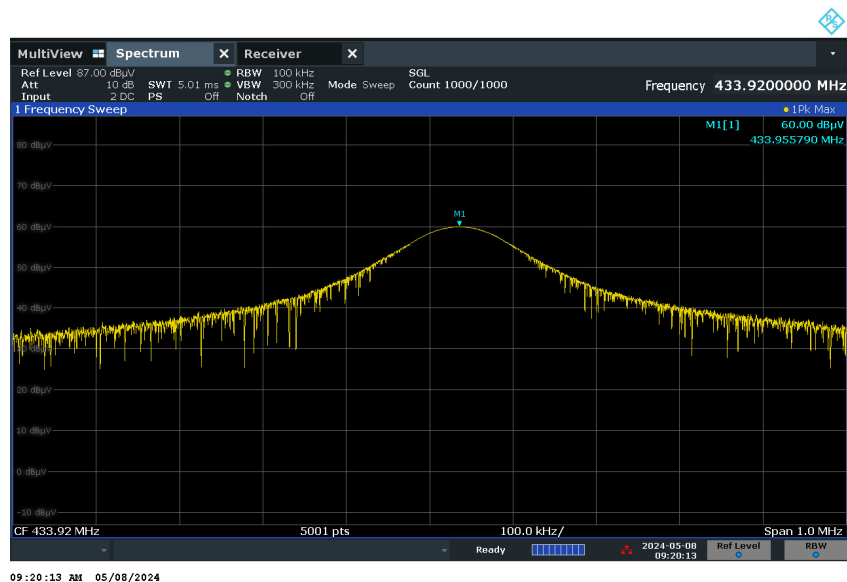
Worst data plot of radiated test

Note: The offset was not include in test plot(Reading value).
The results refer to the Section 9.1

Field strength of fundamental

X axis & Hor

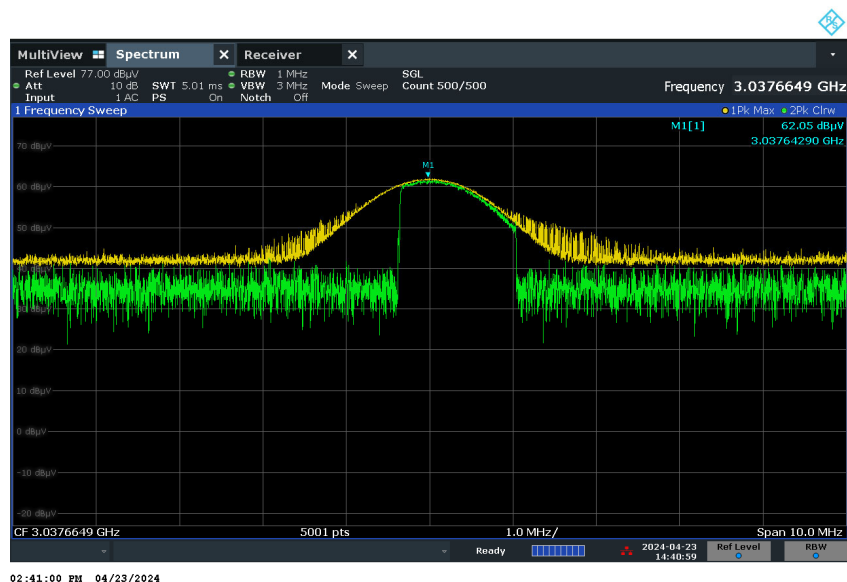
Detector Mode : PK



Spurious emission

X axis & Hor

Detector Mode : PK



10. AC POWER LINE CONDUCTED EMISSIONS

LIMITS

FCC §15.207 (a) & RSS-GEN[8.8]

| Frequency of Emission (MHz) | Conducted Limit (dBuV) | |
|-----------------------------|------------------------|-----------------------|
| | 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 PROCEDURE

The EUT is placed on a non-conducting table 40 cm from the vertical ground plane and 80 cm above the horizontal ground plane. The EUT is configured in accordance with ANSI C63.10.

The receiver is set to a resolution bandwidth of 9 kHz. Peak detection is used unless otherwise noted as quasi-peak or average.

Line conducted data is recorded for both NEUTRAL and HOT lines.

RESULTS: N/P

Note. EUT use Non-rechargeable battery.

END OF TEST REPORT