

RF TEST REPORT

Test Equipment : Smart Card Reader

Model Name

: SR10D

FCC ID

: OYUSR10D

Date of receipt : 2023-10-27

Test Duration

: 2024-01-03 ~ 2024-01-26

Date of issue : 2024-02-16

Applicant

: IDTECK CO., Ltd.

4F, 61, Samjak-ro 171beon-gil, Bucheon-si

Gyeonggi-do, Repubilc of Korea

Test Laboratory : Lab-T, Inc.

2182-42 Baegok-daero, Mohyeon-eup, Cheoin-gu Yongin-si, Gyeonggi-do 17036, Republic of Korea

Test Specification : FCC Part 15 Subpart C 15.225

Test Result

Pass

The above equipment was tested by Lab-T Testing Laboratory for compliance with the requirements of FCC Rules and Regulations. The test results presented in this test report are limited only to the sample supplied by applicant and the use of this test report is inhibited other than its purpose. This test report shall not be reproduced except in full, without the written approval of Lab-T, Inc

Tested by:

Reviewed by:

Engineer

NamHyoung Kwon

Technical Manager SangHoon Yu



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| | | 40 |



1. Revision History

| Test Report No. | Date | Description |
|-----------------|------------|---------------|
| TRRFCC24-0005 | 2024-02-16 | Initial issue |
| | | |





2. Information

2.1 Applicant Information

| Applicant Name | IDTECK CO., Ltd. | | |
|---|---|--|--|
| Address 4F, 61, Samjak-ro 171beon-gil, Bucheon-si, Gyeonggi-do, Repubilc of Korea | | | |
| Telephone No. +82-2-2659-0055 | | | |
| Person in charge Byung-Dong Kang / Private Sector, Corporation | | | |
| Manufacturer IDTECK CO., Ltd. | | | |
| Address | 4F, 61, Samjak-ro 171beon-gil, Bucheon-si, Gyeonggi-do, Repubilc of Korea | | |

2.2 Test Laboratory Information

| 2.2 Test Laboratory information | | | |
|---------------------------------|--|--|--|
| Corporate Name | Lab-T, Inc. | | |
| Representative | Duke (JongYoung) Kim | | |
| Address | 2182-42 Baegok-daero, Mohyeon-eup, Cheoin-gu, Yongin-si, Gyeonggi-do 17036 Republic of Korea | | |
| Telephone | +82-31-322-6767 | | |
| Fax | +82-31-322-6768 | | |
| E-mail | info@lab-t.net | | |
| FCC Designation No. | KR0159 | | |
| FCC Registration No. | 133186 | | |
| IC Site Registration No. | 22000 | | |

2.3 Test Site

| Test Site | Used | Address |
|------------|-------------|---|
| Building L | \boxtimes | 2182-40 Baegok-daero, Mohyeon-eup, Cheoin-gu, Yongin-si, Gyeonggi-do 17036, Republic of Korea |
| Building T | \boxtimes | 2182-42 Baegok-daero, Mohyeon-eup, Cheoin-gu, Yongin-si, Gyeonggi-do 17036, Republic of Korea |
| Building A | | 2182-44 Baegok-daero, Mohyeon-eup, Cheoin-gu, Yongin-si, Gyeonggi-do 17036, Republic of Korea |



3. Information about Test Equipment

3.1 Equipment Information

| or Equipment information | | |
|--------------------------|-------------------|--|
| Equipment Type | Smart Card Reader | |
| Model Name | SR10D | |
| Frequency Range | 13.56 MHz | |
| Modulation Type | ASK | |
| Power Supply | DC 12 V | |
| S/W Version | 0.1.0. | |
| H/W Version | 0.1.0. | |

Note 1 : The above EUT information was declared by the manufacturer.

3.2 Antenna Information

| Туре | Model No. | Gain | Note. |
|--------------|------------|------|-------|
| Loop antenna | DM_Ant_V10 | - | - |

3.3 Test Frequency

| Test Mode | Test Frequency[MHz] |
|-----------|---------------------|
| ASK | 13.56 |

3.4 Tested Companion Device Information

| Туре | Manufacturer | Model | Note. |
|------|--------------|-------|-------|
| - | - | - | - |



4. Test Report

4.1 Summary

| FCC Part 15 | | | | |
|---|---|---|--|--|
| Parameter | Clause | Status | | |
| Requirements | | | | |
| Antenna Requirement | 5.8 | С | | |
| 20 dB Bandwidth | 6.9.2 | С | | |
| Frequency Tolerance of Carrier Signal | 6.8 | С | | |
| In-band Fundamental Emission, In-band and Out-band Spurious Emission | 6.3 6.4 6.5 | С | | |
| Conducted Emissions | 6.2 | N/A ^{Note 2} | | |
| | Requirements Antenna Requirement 20 dB Bandwidth Frequency Tolerance of Carrier Signal In-band Fundamental Emission, In-band and Out-band Spurious Emission | Parameter Clause Requirements Antenna Requirement 5.8 20 dB Bandwidth 6.9.2 Frequency Tolerance of Carrier Signal 6.8 In-band Fundamental Emission, 6.3 In-band and Out-band Spurious Emission 6.5 | | |

Note 1: C = Comply N/C = Not Comply N/T = Not Tested N/A = Not Applicable Note 2: The device only uses DC power, so it was not tested

4.2 Measurement Uncertainty

| Mesurement Items | Expanded Uncertainty | | |
|--|--|---|--|
| 99% Occupied Bandwidth | 6.80 kHz (The confidence level is about 95 %, <i>k</i> =2) | | |
| Frequency Error | 5.81 kHz (The confidence level is about 95 %, <i>k</i> =2) | | |
| Radiated Spurious Emissions (30 MHz under) | 4.06 dB | (The confidence level is about 95 %, k=2) | |
| Radiated Spurious Emissions (30 MHz ~ 1 GHz) | 4.84 dB | (The confidence level is about 95 %, k=2) | |
| Conducted Emission | 2.52 dB | (The confidence level is about 95 %, k=2) | |

^{*} The general test methods used to test this device is ANSI C63.10:2020





4.3 Transmitter Requirements

4.3.1 20 dB Bandwidth

4.3.1.1 Regulation

Accoding to §15.215(c) Intentional radiators operating under the alternative provisions to the general emission limits, as contained in §§15.217 through 15.257 and in subpart E of this part, must be designed to ensure that the 20 dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equipment operates, is contained within the frequency band designated in the rule section under which the equipment is operated. In the case of intentional radiators operating under the provisions of subpart E, the emission bandwidth may span across multiple contiguous frequency bands identified in that subpart. The requirement to contain the designated bandwidth of the emission within the specified frequency band includes the effects from frequency sweeping, frequency hopping and other modulation techniques that may be employed as well as the frequency stability of the transmitter over expected variations in temperature and supply voltage. If a frequency stability is not specified in the regulations, it is recommended that the fundamental emission be kept within at least the central 80% of the permitted band in order to minimize the possibility of out-of-band operation.

4.3.1.2 Measurement Procedure

These test measurement settings are specified in section 6.9.2 of ANSI C63.10-2020

4.3.1.3 Result

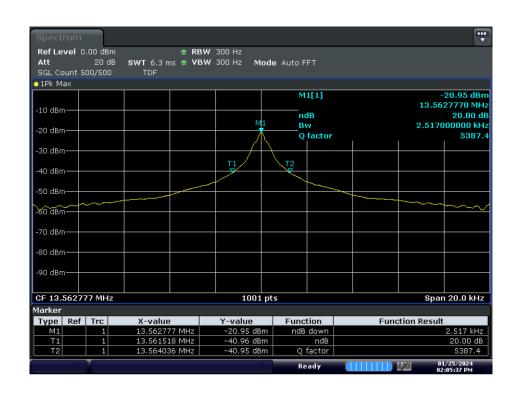
Comply (Measurement data: Refer to the next page)



4.3.1.4 Measurement Data

Test mode : ASK

| Frequency | Result | Lowest Frequency | Highest Frequency |
|-----------|---------|------------------|-------------------|
| [MHz] | [kHz] | [MHz] | [MHz] |
| 13.56 | 2.517 0 | 13.561 5 | 13.564 0 |





4.3.2 Frequency Tolerance of Carrier Signal

4.3.2.1 Regulation

According to §15.225(e) The frequency tolerance of the carrier signal shall be maintained within $\pm 0.01\%$ of the operating frequency over a temperature variation of -20 degrees to +50 degrees C at normal supply voltage, and for a variation in the primary supply voltage from 85% to 115% of the rated supply voltage at a temperature of 20 degrees C. For battery operated equipment, the equipment tests shall be performed using a new battery.

4.3.2.2 Measurement Procedure

These test measurement settings are specified in section 6.8.1 and 6.8.2 of ANSI C63.10-2020

4.3.2.3 Result

Comply (Measurement data: Refer to the next page)



4.3.2.4 Measurement Data

Test mode: 0 min

| Nominal Frequency ^{Note 1} [MHz] | Temp [°C] | Lowest Frequency [MHz] | Highest Frequency [MHz] | Center Frequency [Hz] | Tolerance [%] |
|---|--------------|------------------------------|-------------------------------|-----------------------------|------------------|
| | -20 | 13.561 641 | 13.564 218 | 13 562 930 | 0.000 955 |
| | -10 | 13.561 681 | 13.564 199 | 13 562 940 | 0.001 032 |
| | 0 | 13.561 741 | 13.564 119 | 13 562 930 | 0.000 959 |
| | 10 | 13.561 681 | 13.564 139 | 13 562 910 | 0.000 811 |
| | 20 | 13.561 601 | 13.564 099 | 13 562 850 | 0.000 369 |
| 13.562 8 | 30 | 13.561 681 | 13.563 999 | 13 562 840 | 0.000 295 |
| | 40 | 13.561 581 | 13.563 979 | 13 562 780 | -0.000 147 |
| | 50 | 13.561 501 | 13.564 039 | 13 562 770 | -0.000 221 |
| | Voltage[%] | Note 2 | | | |
| | 85 | 13.561 581 | 13.564 119 | 13 562 850 | 0.000 369 |
| | 115 | 13.561 601 | 13.564 099 | 13 562 850 | 0.000 369 |

Note 1 : The center frequency measured at room temperature and rated voltage was declared as the Nominal frequency, and then the frequency stability was tested.

Note 2 : This test was measured at room temperature of +20 degrees

Test mode: 2 min

| Nominal Frequency ^{Note 1} [MHz] | Temp [°C] | Lowest Frequency [MHz] | Highest Frequency [MHz] | Center Frequency [Hz] | Tolerance [%] |
|---|--------------|------------------------------|-------------------------------|-----------------------------|------------------|
| | -20 | 13.561 641 | 13.564 224 | 13 562 933 | 0.000 977 |
| | -10 | 13.561 689 | 13.564 196 | 13 562 943 | 0.001 051 |
| | 0 | 13.561 738 | 13.564 116 | 13 562 927 | 0.000 936 |
| 12 562 9 | 10 | 13.561 682 | 13.564 136 | 13 562 909 | 0.000 804 |
| 13.562 8 | 20 | 13.561 624 | 13.564 102 | 13 562 863 | 0.000 465 |
| | 30 | 13.561 688 | 13.563 997 | 13 562 843 | 0.000 313 |
| | 40 | 13.561 576 | 13.563 975 | 13 562 776 | -0.000 181 |
| | 50 | 13.561 504 | 13.564 035 | 13 562 770 | -0.000 225 |

Note 1 : The center frequency measured at room temperature and rated voltage was declared as the Nominal frequency, and then the frequency stability was tested.



Test mode: 5 min

| Nominal Frequency ^{Note 1} [MHz] | Temp [°C] | Lowest Frequency [MHz] | Highest Frequency [MHz] | Center Frequency [Hz] | Tolerance [%] |
|---|--------------|------------------------------|-------------------------------|-----------------------------|------------------|
| | -20 | 13.561 640 | 13.564 221 | 13 562 931 | 0.000 962 |
| | -10 | 13.561 641 | 13.564 218 | 13 562 930 | 0.000 955 |
| | 0 | 13.561 740 | 13.564 120 | 13 562 930 | 0.000 959 |
| 13.562 8 | 10 | 13.561 678 | 13.564 135 | 13 562 907 | 0.000 785 |
| 13.302 6 | 20 | 13.561 627 | 13.564 111 | 13 562 869 | 0.000 509 |
| | 30 | 13.561 691 | 13.563 999 | 13 562 845 | 0.000 332 |
| | 40 | 13.561 584 | 13.563 976 | 13 562 780 | -0.000 147 |
| | 50 | 13.561 507 | 13.564 039 | 13 562 773 | -0.000 199 |

Note 1 : The center frequency measured at room temperature and rated voltage was declared as the Nominal frequency, and then the frequency stability was tested.

Test mode: 10 min

| Nominal Frequency ^{Note 1} [MHz] | Temp [°C] | Lowest Frequency [MHz] | Highest Frequency [MHz] | Center Frequency [Hz] | Tolerance [%] |
|---|--------------|------------------------------|-------------------------------|-----------------------------|------------------|
| | -20 | 13.561 644 | 13.564 210 | 13 562 927 | 0.000 936 |
| | -10 | 13.561 687 | 13.564 184 | 13 562 936 | 0.000 999 |
| | 0 | 13.561 742 | 13.564 118 | 13 562 930 | 0.000 959 |
| 13.562 8 | 10 | 13.561 675 | 13.564 137 | 13 562 906 | 0.000 782 |
| 13.302 6 | 20 | 13.561 631 | 13.564 108 | 13 562 870 | 0.000 512 |
| | 30 | 13.561 695 | 13.563 993 | 13 562 844 | 0.000 324 |
| | 40 | 13.561 588 | 13.563 978 | 13 562 783 | -0.000 125 |
| | 50 | 13.561 513 | 13.564 041 | 13 562 777 | -0.000 170 |

Note 1 : The center frequency measured at room temperature and rated voltage was declared as the Nominal frequency, and then the frequency stability was tested.



4.3.3 In-band Fundamental Emission, In-band and Out-band Spurious Emission

4.3.3.1 Regulation

According to §15.225(a),(b),(c),(d) (a) The field strength of any emissions within the band 13.553-13.567 MHz shall not exceed 15,848 microvolts/meter at 30 meters.

- (b) Within the bands 13.410-13.553 MHz and 13.567-13.710 MHz, the field strength of any emissions shall not exceed 334 microvolts/meter at 30 meters.
- (c) Within the bands 13.110-13.410 MHz and 13.710-14.010 MHz the field strength of any emissions shall not exceed 106 microvolts/meter at 30 meters.
- (d) The field strength of any emissions appearing outside of the 13.110-14.010 MHz band shall not exceed the general radiated emission limits in §15.209.

According to §15.209(a) Except as provided elsewhere in this subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

| Frequency [MHz] | Field Strength [microvolts/meter] | Measurement Distance [meters] |
|--------------------|--------------------------------------|----------------------------------|
| 0.009 - 0.490 | 2 400/F[kHz] | 300 |
| 0.490 - 1.705 | 24 000/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 shallnot 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.



4.3.3.2 Measurement Procedure

- 1) The preliminary and final rdiated measurements were performed to determine the frequency producing the maximum emissions in at a 10m anechoic chamber. The EUT was tested at a distance 3 meters.
- 2) The EUT was placed on the top of the 0.8-meter height, 1 \times 1.5 meter non-metallic table. To find the maximum emission levels, the height of a measuring antenna was changed and the turntable was rotated 360°.
- 3) The antenna polarization was also changed from vertical to horizontal. The spectrum was scanned from 9 kHz to 30 MHz using the loop antenna, and from 30 to 1 000 MHz using the TRILOG broadband antenna.
- 4) Each frequency found during preliminary measurements was re-examined and investigated. The test-receiver system was set up to average, peak, and quasi-peak detector function with specified bandwidth.
- Note 1: The resolution bandwidth of test receiver/spectrum analyzer is 200 Hz for Quasi-peak detection (QP) at frequency below 150 kHz.
- Note 2: The resolution bandwidth of test receiver/spectrum analyzer is 9 kHz for Quasi-peak detection (QP) at frequency 150 kHz to 30 MHz
- Note 3: The resolution bandwidth of test receiver/spectrum analyzer is 120 kHz for Quasi-peak detection (QP) at frequency below 1 GHz.
- Note 4: The video bandwidth of test receiver/spectrum analyzer is three times as much as resolution bandwidth

4.3.3.3 Result

Comply (Measurement data: Refer to the next page)





4.3.3.4 Measurement Data

Test mode: 9 kHz ~ 30 MHz

| Frequency [MHz] | Detector | Note 1 | Pol. [V/H] | Reading [dBµV] | Ant Factor [dB] | Cable Loss [dB] | Result at 3m [dBµV/m] | Result at 30m [dBµV/m] | Limit at 30m [dBµV/m] | Margin [dB] |
|--------------------|-----------------|-----------|---------------|-------------------|-----------------------|-----------------------|-----------------------------|------------------------------|-----------------------------|----------------|
| 13.562 8 | QP | F | Н | 63.40 | 10.70 | 0.70 | 74.80 | 34.80 | 84.00 | 70.10 |
| 13.562 8 | QP | F | V | 56.10 | 10.70 | 0.70 | 67.50 | 27.50 | 84.00 | 66.10 |
| Spurious | Not detected | S | - | - | - | - | - | - | - | - |

| Frequency [MHz] | Detector | Note 1 | Pol. [V/H] | Reading [dBµV] | Ant Factor [dB] | Cable Loss [dB] | Result at 3m [dBµV/m] | Result at 300m [dBµV/m] | Limit at 300m [dBµV/m] | Margin [dB] |
|--------------------|-----------------|-----------|---------------|-------------------|-----------------------|-----------------------|-----------------------------|-------------------------------|------------------------------|----------------|
| Spurious | Not detected | S | 1 | - | - | - | - | - | - | - |

"F" : Fundamental, "S" : Spurious Note 1:

Note 2: Result: Reading + Ant factor + Cable loss

Note 3:

According to §15.31 (f)(2); Result at $30m[dB\mu V/m] = Result$ at $3m[dB\mu V/m] - 40*log(30/3)[dB\mu V/m]$ Result at $300m[dB\mu V/m] = Result$ at $3m[dB\mu V/m] - 40*log(300/3)[dB\mu V/m]$ Not detected means peak measurement did not take place because it is more than 20dB difference in the limit

Note 4:

Test mode: 30 MHz ~ 1 GHz

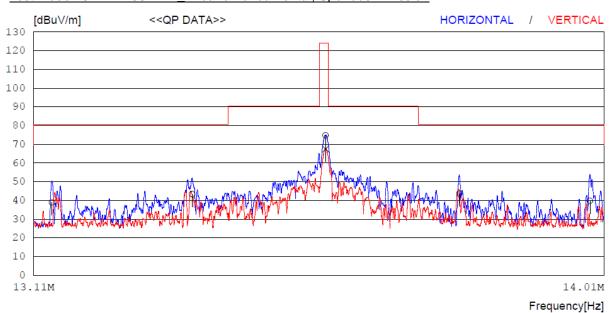
| Frequency [MHz] | Detector | Note 1 | Pol. [V/H] | Reading [dBµV] | Ant Factor [dB] | Loss [dB] | Result [dBµV/m] | Limit [dBµV/m] | Margin [dB] |
|--------------------|----------|-----------|---------------|-------------------|-----------------------|--------------|--------------------|-------------------|----------------|
| 40.663 | QP | S | ٧ | 45.20 | 19.40 | -29.40 | 35.20 | 40.00 | 4.80 |
| 135.622 | QP | S | Н | 47.30 | 18.50 | -28.00 | 37.80 | 43.50 | 5.70 |
| 189.855 | QP | S | ٧ | 45.40 | 16.80 | -27.70 | 34.50 | 43.50 | 9.00 |
| 189.880 | QP | S | Н | 49.30 | 16.80 | -27.70 | 38.40 | 43.50 | 5.10 |
| 569.700 | QP | S | ٧ | 35.20 | 24.80 | -26.30 | 33.70 | 46.00 | 12.30 |

Note 1: Loss : Cable loss - Amp gain Result : Reading + Ant factor + Loss Note 2:

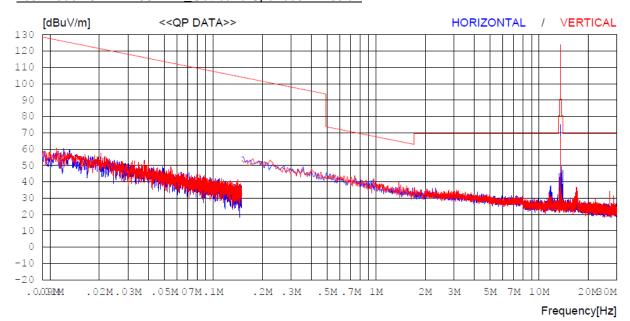


4.3.3.5 Measurement Plot

Test mode: 9 kHz ~ 30 MHz_In-band Fundamental, Spurious Emission

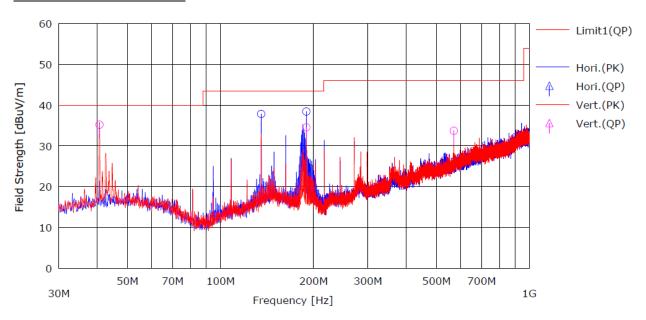


Test mode: 9 kHz ~ 30 MHz_Out-band Spurious Emission





Test mode : 30 MHz ~ 1 GHz





4.3.4 Conducted Emission

4.3.4.1 Regulation

According to §15.207(a), for an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies, within the band 150 kHz to 30 MHz, shall not exceed the limits in the following table, as measured using a 50 $\mu\text{H}/50~\Omega$ line impedance stabilization network (LISN).

Compliance with the provisions of this paragraph shall be based on the measurement of the radio frequency voltage between each power line and ground at the power terminal. The lower limit applies at the boundary between the frequency ranges.

| Frequency of emission | Conducted Limit[dBµV] | | | | |
|-----------------------|-----------------------|------------|--|--|--|
| [MHz] | Qausi-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.

According to §15.107(a), for unintentional device, except for Class A digital devices, line conducted emission limits are the same as the above table.

4.3.4.2 Measurement Procedure

- 1) The EUT was placed on a wooden table of size, 1 m by 1.5 m, raised 80 cm in which is located 40 cm away from the vertical wall and 1.5 m away from the side wall of the shielded room.
- 2) Each current-carrying conductor of the EUT power cord was individually connected through a 50 Ω /50 μ H LISN, which is an input transducer to a Spectrum Analyzer or an EMI/Field Intensity Meter, to the input power source.
- 3) Exploratory measurements were made to identify the frequency of the emission that had the highest amplitude relative to the limit by operating the EUT in a range of typical modes of operation, cable position, and with a typical system equipment configuration and arrangement. Based on the exploratory tests of the EUT, the one EUT cable configuration and arrangement and mode of operation that had produced the emission with the highest amplitude relative to the limit was selected for the final measurement.
- 4) The final test on all current-carrying conductors of all of the power cords to the equipment that comprises the EUT (but not the cords associated with other non-EUT equipment is the system) was then performed over the frequency range of 0.15 MHz to 30 MHz.
- 5) The measurements were made with the detector set to PEAK amplitude within a bandwidth of 10 kHz or to QUASIPEAK and AVERAGE within a bandwidth of 9 kHz. The EUT was in transmitting mode during the measurements.

4.3.4.3 Result

Not Applicable (The device only uses DC power, so it was not tested)



APPENDIX I

TEST EQUIPMENT USED FOR TESTS



To facilitate inclusion on each page of the test equipment used for related tests, each item of test equipment.

| | · - | | | | Ι |
|--------------------------------|----------------|----------------------|------------|-------------------------|--------------------------|
| Equipment | Manufacturer | Model | Serial No. | Cal. Date (yy.mm.dd) | Next Cal.Date (yy.mm.dd) |
| FSV Signal Analyzer | ROHDE&SCHWARZ | FSV40 | 101010 | 2023-04-13 | 2024-04-13 |
| DC POWER SUPPLY | KIKUSUI | PWX1500L | SM002050 | 2023-08-16 | 2024-08-16 |
| HUMIDITY/TEMP DATA RECORDER | LUTRON | MHB-382SD | 79735 | 2023-04-19 | 2024-04-19 |
| Digital MultiMeter | HP | 34401A | US36025428 | 2024-01-04 | 2025-01-04 |
| Signal Generator | ROHDE&SCHWARZ | SMB100A | 178384 | 2023-10-11 | 2024-10-11 |
| Temp & Humi Test Chamber | SJ SCIENCE | SJ-TH-S50 | 170719 | 2023-04-13 | 2024-04-13 |
| EMI Test Receiver | ROHDE&SCHWARZ | ESU40 | 100445 | 2023-09-05 | 2024-09-05 |
| Active Loop H-Field | ETS | 6502 | 00150598 | 2023-06-27 | 2025-06-27 |
| BiLog Antenna | Schwarzbeck | VULB9168 | 00821 | 2023-03-29 | 2024-03-29 |
| Attenuator | JFW | 50F-006 | 6 dB-3 | 2023-04-13 | 2024-04-13 |
| PREAMPLIFIER | TSJ | MLA-10k01- b01-27 | 1870367 | 2023-04-13 | 2024-04-13 |
| Antenna Mast | Innco | MA4640- XPET-0800 | 578 | - | - |
| Controller | TOKIN | 5909L | 141909L-1 | - | - |
| Controller | Innco | CO3000 | 40040217 | - | - |
| Turn Table | TOKIN | 5983-1.5 | - | - | - |