FCC Test Report

APPLICANT : Motorola Mobility LLC EQUIPMENT : Mobile Cellular Phone

BRAND NAME : Motorola

MODEL NAME : XT2421-5

FCC ID : IHDT56AR3

STANDARD : 47 CFR Part 15 Subpart B

CLASSIFICATION: Certification

TEST DATE(S) : Oct. 20, 2023 ~ Nov. 13, 2023

We, Sporton International Inc. (Kunshan), would like to declare that the tested sample has been evaluated in accordance with the test procedures given in ANSI C63.4-2014 and has been in compliance with the applicable technical standards.

This report contains data that were produced under subcontract by Sporton International Inc. (ShenZhen).

The test results in this report apply exclusively to the tested model / sample. Without written approval of Sporton International Inc. (Kunshan), the test report shall not be reproduced except in full.

JasonJia

Approved by: Jason Jia





Report No. : FC381720

Sporton International Inc. (Kunshan)

No. 1098, Pengxi North Road, Kunshan Economic Development Zone Jiangsu Province 215300 People's Republic of China

Sporton International Inc. (Kunshan)

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REVISION HISTORY

| REPORT NO. | VERSION | DESCRIPTION | ISSUED DATE |
|------------|---------|-------------------------|---------------|
| FC381720 | Rev. 01 | Initial issue of report | Dec. 13, 2023 |
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SUMMARY OF TEST RESULT

| Report Section | FCC Rule | Description | Limit | Result | Remark |
|-------------------|----------|-----------------------|-----------------|--------|-------------|
| | | | | | Under limit |
| 3.1 | 15.107 | AC Conducted Emission | < 15.107 limits | PASS | 5.80 dB at |
| | | | | | 0.150 MHz |
| | | | | | Under limit |
| 3.2 | 15.109 | 9 Radiated Emission | < 15.109 limits | PASS | 7.32 dB at |
| | | | | | 250.190 MHz |

Conformity Assessment Condition:

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/manufacturer who shall bear all the risks of non-compliance that may potentially occur if measurement uncertainty is taken into account. Please refer to each test results 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.

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1. General Description

1.1. Applicant

Motorola Mobility LLC

222 W, Merchandise Mart Plaza, Chicago IL 60654 USA

1.2. Manufacturer

Motorola Mobility LLC

222 W, Merchandise Mart Plaza, Chicago IL 60654 USA

1.3. Product Feature of Equipment Under Test

| | Product Feature |
|---------------------------------|---|
| Equipment | Mobile Cellular Phone |
| Brand Name | Motorola |
| Model Name | XT2421-5 |
| FCC ID | IHDT56AR3 |
| EUT supports Radios application | GSM/WCDMA/LTE WLAN 2.4GHz 802.11b/g/n HT20 WLAN 5GHz 802.11a/n HT20 WLAN 5GHz 802.11ac VHT20 Bluetooth BR/EDR/LE GNSS/NFC/FM |
| IMEI Code | Conduction: 355031480011135/355031480011143 for sample 1 355031480002811/355031480002829 for sample 2 Radiation: 355031480002035/355031480002043 for sample 1 355031480011135/355031480011143 for sample 2 |
| HW Version | DVT2 |
| SW Version | ULA34.53 |
| EUT Stage | Identical Prototype |

Remark:

- 1. The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.
- 2. There are two types of EUT, the differences could be referred to the XT2421-5_Operational Description of Product Equality Declaration which is exhibit separately. According to the difference, we choose sample 1 to full test and the sample 2 is verified for the difference.

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1.4. Product Specification of Equipment Under Test

| Standards-related Product Specification | | | | |
|---|---|--|--|--|
| Tx Frequency | GSM850: 824 MHz ~ 849 MHz WCDMA Band V: 824 MHz ~ 849 MHz LTE Band 5: 824 MHz ~ 849 MHz LTE Band 7: 2500 MHz ~ 2570 MHz LTE Band 41: 2496 MHz ~ 2690 MHz 802.11b/g/n: 2400 MHz ~ 2483.5 MHz 802.11a/n/ac: 5150 MHz ~ 5250 MHz; 5250 MHz ~ 5350 MHz; 5470 MHz ~ 5725 MHz 5725 MHz ~ 5850 MHz Bluetooth: 2400 MHz ~ 2483.5 MHz NFC: 13.56 MHz | | | |
| Rx Frequency | GSM850: 869 MHz ~ 894 MHz WCDMA Band V: 869 MHz ~ 894 MHz LTE Band 5: 869 MHz ~ 894 MHz LTE Band 7: 2620 MHz ~ 2690 MHz LTE Band 41: 2496 MHz ~ 2690 MHz 802.11b/g/n: 2400 MHz ~ 2483.5 MHz 802.11a/n/ac: 5150 MHz ~ 5250 MHz; 5250 MHz ~ 5350 MHz; 5470 MHz ~ 5725 MHz 5725 MHz ~ 5850 MHz Bluetooth: 2400 MHz ~ 2483.5 MHz NFC: 13.56 MHz GNSS: 1559 MHz ~ 1610 MHz FM: 87.5 MHz ~ 108 MHz | | | |
| Antenna Type | WWAN: PIFA Antenna WLAN: PIFA Antenna Bluetooth: PIFA Antenna GNSS: PIFA Antenna NFC: Coil Antenna FM: External Earphone Antenna | | | |
| Type of Modulation | GSM/GPRS: GMSK EDGE(MCS 0-4): GMSK / (MCS 5-9): 8PSK WCDMA: BPSK HSPA: QPSK HSPA+: 16QAM DC-HSDPA: 64QAM LTE: QPSK / 16QAM / 64QAM 802.11b: DSSS (DBPSK / DQPSK / CCK) 802.11a/g/n: OFDM (BPSK / QPSK / 16QAM / 64QAM) 802.11ac: OFDM (BPSK / QPSK / 16QAM / 64QAM / 256QAM) Bluetooth LE: GFSK Bluetooth (1Mbps): GFSK Bluetooth (2Mbps): π/4-DQPSK Bluetooth (3Mbps): 8-DPSK GNSS: BPSK NFC: ASK FM | | | |

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1.5. Modification of EUT

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

1.6. Specification of Accessory

| Accessories Information | | | | |
|-------------------------|------------|-----------------------|------------|-----------------|
| AC Adapter 1(US) | Brand Name | Motorola (Salcomp) | Model Name | MC-101 |
| AC Adapter 1(EU) | Brand Name | Motorola (Salcomp) | Model Name | MC-102 |
| AC Adapter 1(UK) | Brand Name | Motorola (Salcomp) | Model Name | MC-103 |
| AC Adapter 1(AU) | Brand Name | Motorola (Salcomp) | Model Name | MC-105 |
| AC Adapter 1(CHILE) | Brand Name | Motorola (Salcomp) | Model Name | MC-109 |
| AC Adapter 2(US) | Brand Name | Motorola (chenyang) | Model Name | MC-101 |
| AC Adapter 2(EU) | Brand Name | Motorola (chenyang) | Model Name | MC-102 |
| AC Adapter 2(UK) | Brand Name | Motorola (chenyang) | Model Name | MC-103 |
| AC Adapter 2(AU) | Brand Name | Motorola (chenyang) | Model Name | MC-105 |
| AC Adapter 3(US) | Brand Name | Motorola (aohai) | Model Name | MC-101 |
| AC Adapter 3(EU) | Brand Name | Motorola (aohai) | Model Name | MC-102 |
| AC Adapter 3(UK) | Brand Name | Motorola (aohai) | Model Name | MC-103 |
| AC Adapter 3(AU) | Brand Name | Motorola (aohai) | Model Name | MC-105 |
| Battery 1 | Brand Name | Motorola (ATL) | Model Name | QF50 |
| Battery 2 | Brand Name | Motorola (Sunwoda) | Model Name | QF50 |
| Earphone 1 | Brand Name | Motorola (New leader) | Model Name | NLD-EM313A-20SF |
| Earphone 2 | Brand Name | Motorola (JWELL) | Model Name | JWEP1205-L20H |
| USB Cable 1 | Brand Name | Motorola (JWELL) | Model Name | JWUB1631-L20H |
| USB Cable 2 | Brand Name | Motorola (Saibao) | Model Name | SLQ-A238A |

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1.7. Test Location

Sporton International Inc. (Kunshan) is accredited to ISO/IEC 17025:2017 by American Association for Laboratory Accreditation with Certificate Number 5145.02.

| Test Firm | Sporton International Inc. (Kunshan) | | | | |
|--------------------|---|---------------------|--------------------------------|--|--|
| Test Site Location | No. 1098, Pengxi North Road, Kunshan Economic Development Zone Jiangsu Province 215300 People's Republic of China TEL: +86-512-57900158 | | | | |
| Test Site No. | Sporton Site No. | FCC Designation No. | FCC Test Firm Registration No. | | |
| | CO01-KS 03CH07-KS | CN1257 | 314309 | | |

Sporton International Inc. (Shenzhen) is accredited to ISO/IEC 17025:2017 by American Association for Laboratory Accreditation with Certificate Number 5145.01.

| Test Firm | Sporton International Inc. (Shenzhen) | | | | |
|--------------------|---|---------------------|------------------|--|--|
| | 1/F, 2/F, Bldg 5, Shiling Industrial Zone, Xinwei Village, Xili, Nanshan, | | | | |
| Test Site Location | Shenzhen, 518055 People's Republic of China | | | | |
| rest Site Location | TEL: +86-755-86379589 | | | | |
| | FAX: +86-755-86379595 | | | | |
| | 0 | FOO Design of an No | FCC Test Firm | | |
| Test Site No. | Sporton Site No. | FCC Designation No. | Registration No. | | |
| | CO01-SZ | CN1256 | 421272 | | |

Test data subcontracted: Test cases in section 3.1 of this report.

1.8. Test Software

| Item | Site | Manufacturer | Name | Version |
|------|-----------|--------------|------|-------------|
| 1. | 03CH07-KS | AUDIX | E3 | 210616 |
| 2. | CO01-KS | AUDIX | E3 | 6.2009-8-24 |
| 3. | CO01-SZ | AUDIX | E3 | 6.120613b |

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1.9. Applicable Standards

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

- 47 CFR Part 15 Subpart B
- ANSI C63.4-2014

Remark: All test items were verified and recorded according to the standards and without any deviation during the test.

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2. Test Configuration of Equipment Under Test

2.1. Test Mode

The EUT has been associated with peripherals pursuant to ANSI C63.4-2014 and configuration operated in a manner tended to maximize its emission characteristics in a typical application.

Frequency range investigated: conduction emission (150 kHz to 30 MHz), radiation emission (30MHz to the 5th harmonic of the highest frequency or to 40 GHz, whichever is lower).

| Test Items | Function Type |
|--------------|---|
| | Mode 1: GSM 850 Rx(Middle CH) + Bluetooth Idle + WLAN (2.4G) Idle + Camera(Rear) + Earphone 1 + Battery 1 + USB Cable 1(Charging from Adapter 1) + SIM 1 for Sample 1 |
| | Mode 2: WCDMA 850 Rx(Low CH) + Bluetooth Idle + WLAN (5G) Idle + Camera(Front) + Earphone 2 + Battery 1 + USB Cable 2(Charging from Adapter 2) + SIM 2 for Sample 1 |
| | Mode 3: WCDMA 850 Rx(High CH) + Bluetooth Idle + WLAN (2.4G) Idle + MPEG4(Run Color Bar) + Earphone 1 + Battery 1 + USB Cable 1(Charging from Adapter 3) + SIM 1 for Sample 1 |
| | Mode 4: LTE Band 5 Rx(High CH) + Bluetooth Idle + WLAN (5G) Idle + FM Rx(98) + Earphone 2 + Battery 1 + USB Cable 1(Data Link with Notebook) + EUT (eMMC) USB Data Link to PC/NB + SIM 2 for Sample 1 |
| AC Conducted | Mode 5: LTE Band 5 Rx(Low CH) + Bluetooth Idle + WLAN (2.4G) Idle + GNSS Rx + Earphone 2 + Battery 1 + USB Cable 1(Data Link with Notebook) + PC/NB USB Data Link to EUT (eMMC) + SIM 1 for Sample 1 |
| Emission | Mode 6: LTE Band 5 Rx(Middle CH) + Bluetooth Idle + WLAN (5G) Idle + NFC Tx + Earphone 2 + Battery 1 + USB Cable 1(Data Link with Notebook) + EUT (SD) USB Data Link to PC/NB + SIM 2 for Sample 1 |
| | Mode 7: LTE Band 5 Rx(Low CH) + Bluetooth Idle + WLAN (2.4G) Idle + GNSS Rx + Earphone 2 + Battery 1 + USB Cable 1(Data Link with Notebook) + PC/NB USB Data Link to EUT (SD) + SIM 1 for Sample 1 |
| | Mode 8: LTE Band 5 Rx(Low CH) + Bluetooth Idle + WLAN (5G) Idle + GNSS Rx + Earphone 2 + Battery 1 + USB Cable 2(Data Link with Notebook) + PC/NB USB Data Link to EUT (SD) + SIM 2 for Sample 1 |
| | Mode 9: WCDMA 850 Rx(Low CH) + Bluetooth Idle + WLAN (5G) Idle + Camera(Front) + Earphone 2 + Battery 2 + USB Cable 2(Charging from Adapter 2) + SIM 2 for Sample 2 |
| | Mode 10 : LTE Band 5 Rx(Low CH) + Bluetooth Idle + WLAN (5G) Idle + GNSS Rx + Earphone 2 + Battery 1 + USB Cable 2(Data Link with Notebook) + PC/NB USB Data Link to EUT (SD) + SIM 2 for Sample 2 |

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Radiated **Emissions**

Mode 1: GSM 850 Rx(Middle CH) + Bluetooth Idle + WLAN (2.4G) Idle -Camera(Rear) + Earphone 1 + Battery 1 + USB Cable 1(Charging from Adapter 1) + SIM 1 for Sample 1 Mode 2: WCDMA 850 Rx(Low CH) + Bluetooth Idle + WLAN (5G) Idle + Camera(Front) + Earphone 2 + Battery 1 + USB Cable 2(Charging from Adapter 2) + SIM 2 for Sample 1 Mode 3: WCDMA 850 Rx(High CH) + Bluetooth Idle + WLAN (2.4G) Idle + MPEG4(Run Color Bar) + Earphone 1 + Battery 1 + USB Cable 1(Charging from Adapter 3) + SIM 1 for Sample 1

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Mode 4: LTE Band 5 Rx(High CH) + Bluetooth Idle + WLAN (5G) Idle + FM Rx(88) + Earphone 2 + Battery 1 + USB Cable 1(Data Link with Notebook) + EUT (eMMC) USB Data Link to PC/NB + SIM 2 for Sample 1

Mode 5: LTE Band 5 Rx(Low CH) + Bluetooth Idle + WLAN (2.4G) Idle + GNSS Rx + Earphone 1 + Battery 1 + USB Cable 1(Data Link with Notebook) + PC/NB USB Data Link to EUT (eMMC) + SIM 1 for Sample 1

Mode 6: LTE Band 5 Rx(Middle CH) + Bluetooth Idle + WLAN (5G) Idle + NFC on +

Earphone 1 + Battery 1 + USB Cable 1(Data Link with Notebook) + EUT (SD) USB Data Link to PC/NB + SIM 2 for Sample 1

Mode 7: LTE Band 5 Rx(Middle CH) + Bluetooth Idle + WLAN (2.4G) Idle + NFC On + Earphone 1 + Battery 1 + USB Cable 1(Data Link with Notebook) + PC/NB USB Data Link to EUT (SD) + SIM 1 for Sample 1

Mode 8: LTE Band 5 Rx(Middle CH) + Bluetooth Idle + WLAN (5G) Idle + NFC On + Earphone 1 + Battery 1 + USB Cable 2(Data Link with Notebook) + PC/NB USB Data Link to EUT (SD) + SIM 2 for Sample 1

Mode 9: GSM 850 Rx(Middle CH) + Bluetooth Idle + WLAN (2.4G) Idle + Camera(Rear) + Earphone 1 + Battery 2 + USB Cable 1(Charging from Adapter 1) + SIM 1 for Sample 2

Mode 10: LTE Band 5 Rx(Middle CH) + Bluetooth Idle + WLAN (2.4G) Idle + NFC On + Earphone 1 + Battery 2 + USB Cable 1(Data Link with Notebook) + PC/NB USB Data Link to EUT (SD) + SIM 1 for Sample 2

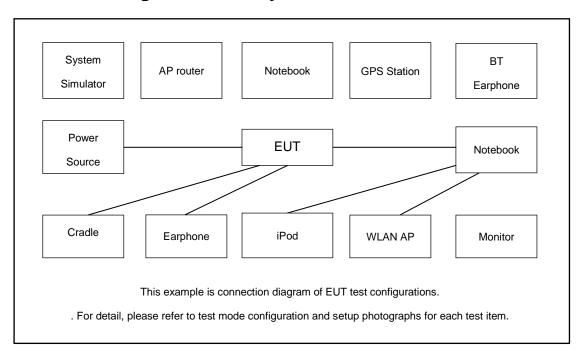
Remark:

- The worst case of AC is mode 8; only the test data of this mode is reported.
- 2. The worst case of RE is mode 10; only the test data of this mode is reported.
- 3. Data Link with Notebook means data application transferred mode between EUT and
- Pre-scanned Low/Middle/High channel for GSM 850/WCDMA Band V / LTE Band 5 and FM Rx, the worst channel was recorded in this report.

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2.2.Connection Diagram of Test System



The EUT has been associated with peripherals pursuant to ANSI C63.4-2014 and configuration operated in a manner tended to maximize its emission characteristics in a typical application

2.3. Support Unit used in test configuration and system

| Item | Equipment | Trade Name | Model Name | FCC ID | Data Cable | Power Cord |
|------|-------------------------|------------|---------------|--------------|---------------|--|
| 1. | Base Station | Anritsu | MT8821C | N/A | N/A | Unshielded,1.8m |
| 2. | Base Station | Anritsu | MT8820C | N/A | N/A | Unshielded,1.8m |
| 3. | GNSS Station | Labsat | RLLS03-2P | N/A | N/A | Unshielded,1.8m |
| 4. | WLAN AP | D-Link | DIR-655 | KA21R655B1 | N/A | Unshielded,1.8m |
| 5. | WLAN AP | D-Link | DIR-820L | KA2IR820LA1 | N/A | Unshielded,1.8m |
| 6. | Bluetooth Earphone | Samsung | EO-MG900 | N/A | N/A | N/A |
| 7. | Bluetooth Earphone | Lenovo | thinkplus-BH3 | N/A | N/A | N/A |
| 8. | Notebook | Lenovo | E540 | FCC DoC | N/A | AC I/P : Unshielded, 1.2m DC O/P : Shielded, 1.8m |
| 9. | Notebook | Lenovo | G480 | QDS-BRCM1050 | N/A | shielded cable DC O/P 1.8m , Unshielded AC I/P cable 1.8m |
| 10. | Vector Signal Generator | R&S | SMBV100A | N/A | N/A | Unshielded,1.8m |
| 11. | SD Card | Kingston | 8GB | N/A | N/A | N/A |
| 12. | Hard Disk | Lenovo | F310 | N/A | Shielded,1.2m | N/A |
| 13. | lopd | apple | MC69029/A | N/A | Shielded,1.2m | N/A |
| 14. | NFC Card | N/A | N/A | N/A | N/A | N/A |

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2.4. EUT Operation Test Setup

The EUT was in GSM or WCDMA or LTE idle mode during the testing. The EUT was synchronized to the BCCH, and is in continuous receiving mode by setting system simulator's paging reorganization.

At the same time, the EUT was attached to the Bluetooth earphone or WLAN AP, and the following programs installed in the EUT were programmed during the test.

- 1. Data application is transferred between notebook and EUT via USB cable.
- 2. Turn on camera to capture images.
- 3. Turn on MPEG4 function.
- 4. Turn on FM function to make the EUT receive continuous signals from FM station.
- 5. Turn on GNSS function to make the EUT receive continuous signals from GNSS station.
- 6. Turn on NFC function

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3. Test Result

3.1. Test of AC Conducted Emission Measurement

3.1.1 Limits of AC Conducted Emission

For equipment 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.

<Class B Limit>

| Frequency of emission | Conducted limit (dBuV) | | |
|-----------------------|------------------------|-----------|--|
| (MHz) | 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.

3.1.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

3.1.3 Test Procedure

- 1. The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least 80 centimeters from any other grounded conducting surface.
- 2. Connect EUT to the power mains through a line impedance stabilization network (LISN).
- 3. All the support units are connecting to the other LISN.
- 4. The LISN provides 50 ohm coupling impedance for the measuring instrument.
- 5. The FCC states that a 50 ohm, 50 microhenry LISN should be used.
- 6. Both sides of AC line were checked for maximum conducted interference.
- 7. The frequency range from 150 kHz to 30 MHz was searched.
- 8. Set the test-receiver system to Peak Detect Function and specified bandwidth (IF Bandwidth = 9kHz) with Maximum Hold Mode. Then measurement is also conducted by Average Detector and Quasi-Peak Detector Function respectively.

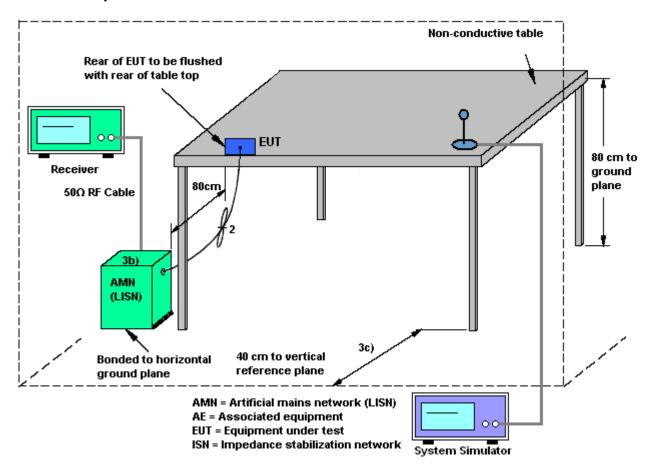
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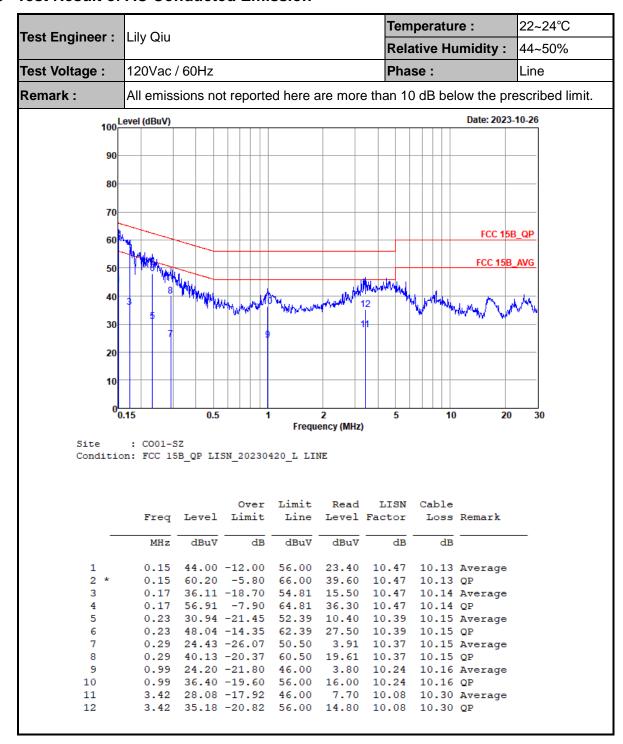
3.1.4 Test Setup



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3.1.5 Test Result of AC Conducted Emission



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| Foot Engineer | Lily Oir | | | | | Tem | peratur | e : | 22~24°C |
|--------------------|---|-----------------|------------|------------------|------------|----------------|------------------|------------|-----------------|
| Test Engineer : | Liiy Qiu | | | | | Rela | ative Hu | midity: | 44~50% |
| Гest Voltage : | 120Vac / | 60Hz | | | | Pha | se: | | Neutral |
| Remark : | All emissions not reported here are more than 10 dB below | | | | | | | | escribed limit. |
| | | | | | | | | Date: 2023 | |
| 100 | evel (dBuV) | | | | | Date. 2023 | 10-20 | | |
| 90 | | | | | | | | | |
| | | | | | | | | | |
| 80— | | | | | | | | | |
| 70 | | | | | | | | | |
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| 50 | | | | | | | | FCC 15B | _AVG |
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| 20 | | | | | | | | | |
| 10 | | | | | | | | | |
| | | | | | | | | | |
| 0 <mark>0</mark> . | .15 | 0.5 | 1 | | 2 | 5 | 10 | 20 | 30 |
| | | | | Frequ | ency (MHz) |) | | | |
| Site Conditio | : CO01-S n: FCC 15 | | N 20230 | 420 N NE | UTRAT. | | | | |
| 331112323 | | | | | | | | | |
| | | | | | | | | | |
| | _ | | Over | | Read | LISN | Cable | | |
| | Freq | Level | Limit | Line | Level | Factor | Loss | Remark | |
| _ | MHz | dBuV | dB | dBu₹ | dBuV | dB | dB | | |
| 1 | 0.15 | 44.29 | -11.71 | 56.00 | 23.70 | 10.46 | 10.13 | Average | |
| 2 * | | | | | | 10.46 | | | |
| 3 | 0.18 | | | 54.50 | 8.41 | | | Average | |
| 4 5 | | | | | | 10.40 10.34 | | | |
| 6 | | | | | | 10.34 | | | |
| 7 | | | | | | | | Average | |
| 8 | 0.28 | 39.77 | -21.04 | 60.81 | 19.31 | 10.31 | 10.15 | QP | |
| | 1.04 | | | | | | | Average | |
| 9 | _ | 26 24 | -19.79 | 56.00 | 15.80 | 10.25 | 10.16 | QP | |
| 10 | | | | | | | 10 00 | - | |
| | 3.29 | 27.35 | -18.65 | 46.00 | 6.90 | 10.15 10.15 | | | |

Note:

- 1. Level(dB μ V) = Read Level(dB μ V) + LISN Factor(dB) + Cable Loss(dB)
- 2. Over Limit(dB) = Level(dB μ V) Limit Line(dB μ V)

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3.2. Test of Radiated Emission Measurement

3.2.1. Limit of Radiated Emission

The emissions from an unintentional radiator shall not exceed the field strength levels specified in the following table:

<Class B Limit>

| Frequency | Field Strength | Measurement Distance |
|-----------|--------------------|----------------------|
| (MHz) | (microvolts/meter) | (meters) |
| 30 – 88 | 100 | 3 |
| 88 – 216 | 150 | 3 |
| 216 - 960 | 200 | 3 |
| Above 960 | 500 | 3 |

3.2.2. Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

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3.2.3. Test Procedures

- 1. The EUT was placed on a turntable with 0.8 meter above ground.
- 2. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
- 3. The table was rotated 360 degrees to determine the position of the highest radiation.
- 4. The antenna is a Bi-Log antenna and its height is adjusted between one to four meters above ground to find the maximum value of the field strength for both horizontal polarization and vertical polarization of the antenna.
- 5. For each suspected emission, the EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading.
- 6. Set the test-receiver system to Peak Detect Function and specified bandwidth with Maximum Hold Mode (RBW=120kHz/VBW=300kHz for frequency below 1GHz; RBW=1MHz VBW=3MHz (Peak), RBW=1MHz/VBW=10Hz (Average) for frequency above 1GHz).
- 7. If the emission level of the EUT in peak mode was 3 dB lower than the limit specified, peak values of EUT will be reported. Otherwise, the emission will be repeated by using the quasi-peak method and reported.
- 8. Emission level (dB μ V/m) = 20 log Emission level (μ V/m)
- 9. Corrected Reading: Antenna Factor + Cable Loss + Read Level Preamp Factor = Level
- 10. Exploratory radiated emissions testing of handheld and/or body-worn devices shall include rotation of the EUT through three orthogonal axes (X/Y/Z Plane) to determine the orientation (attitude) that maximizes the emissions.

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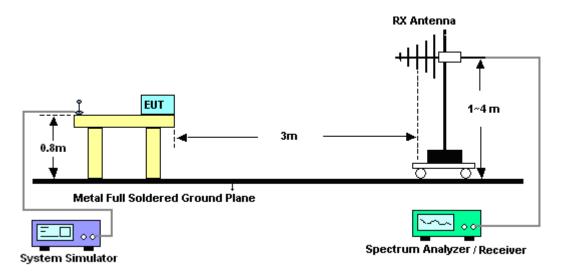
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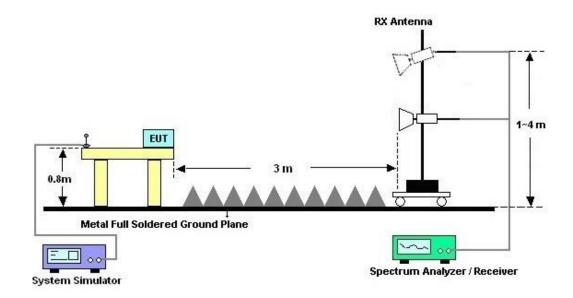
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3.2.4. Test Setup of Radiated Emission

For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz

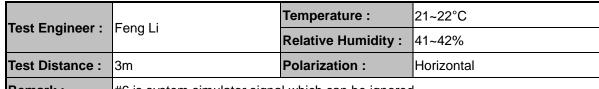


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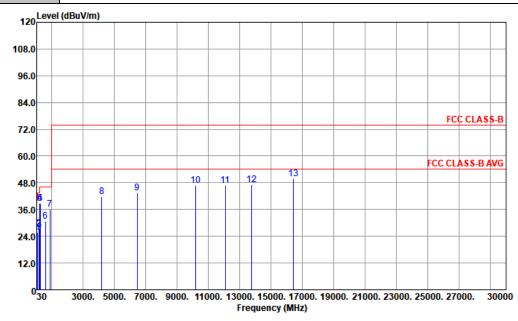
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3.2.5. Test Result of Radiated Emission



Remark: #6 is system simulator signal which can be ignored.



Site : 03CH07-K5

Condition : FCC CLASS-B 3m 3117 SN00240138 HORIZONTAL

| | Freq | Level | Over Limit | Limit Line | | Antenna Factor | | | | T/Pos | Remark |
|-----|----------|--------|---------------|---------------|-------|-------------------|-------|-------|----|-------|--------|
| | MHz | dBuV/m | dB | dBuV/m | dBuV | dB/m | dB | dB | cm | deg | |
| 1 | 87.23 | 25.89 | -14.11 | 40.00 | 42.46 | 14.22 | 1.28 | 32.07 | | | Peak |
| 2 | 162.89 | 27.56 | -15.94 | 43.50 | 41.90 | 15.90 | 1.85 | 32.09 | | | Peak |
| 3 | 198.78 | 27.23 | -16.27 | 43.50 | 42.65 | 14.71 | 2.06 | 32.19 | | | Peak |
| 4 | 234.67 | 38.61 | -7.39 | 46.00 | 51.90 | 16.57 | 2.23 | 32.09 | | | Peak |
| 5 p | 250.19 | 38.68 | -7.32 | 46.00 | 49.98 | 18.45 | 2.30 | 32.05 | | | Peak |
| 6 | 584.84 | 30.84 | | | 33.72 | 25.96 | 3.52 | 32.36 | | | Peak |
| 7 | 881.66 | 36.01 | -9.99 | 46.00 | 34.13 | 28.94 | 4.32 | 31.38 | | | Peak |
| 8 | 4179.00 | 41.71 | -32.29 | 74.00 | 63.20 | 33.53 | 9.62 | 64.64 | | | Peak |
| 9 | 6457.00 | 43.54 | -30.46 | 74.00 | 60.70 | 35.37 | 11.95 | 64.48 | | | Peak |
| 10 | 10163.00 | 46.63 | -27.37 | 74.00 | 57.10 | 37.17 | 15.45 | 63.09 | | | Peak |
| 11 | 12084.00 | 46.73 | -27.27 | 74.00 | 53.62 | 38.83 | 16.47 | 62.19 | | | Peak |
| 12 | 13750.00 | 47.02 | -26.98 | 74.00 | 54.04 | 38.75 | 17.81 | 63.58 | | | Peak |
| 13 | 16436.00 | 49.70 | -24.30 | 74.00 | 54.58 | 41.49 | 19.31 | 65.68 | | | Peak |

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| est Engineer : | Feng | Li | | | 1 | Гетре | rature |): | 21~ | ·22°C | | |
|--|---|---|--|---|---|--|---|--|-------------|--------|--|-----------|
| est Engineer: | l eng | | | | F | Relativ | e Hur | nidity | : 41~ | 41~42% | | |
| Test Distance : | 3m | Polarization : Vertical | | | | | | | | | | |
| Remark : | #7 is | syste | m sim | ulator | signal | which | can b | e ignor | ed. | | | |
| 120 Lev | el (dBuV/n | n) | | | | | | | | | | |
| 400.0 | | | | | | | | | | | | |
| 108.0 | | | | | | | | | | | | |
| 96.0 | | | | | | | | | | | | |
| 84.0 | | | | | | | | | | | | |
| 72.0 | | | | | | | | | | | FC | C CLASS-B |
| 72.0 | | | | | | | | | | | | |
| 60.0 | | | | | | | | | | | FCC CL | ASS-BAVG |
| 48.0 | | 8 | 9 1 | 0 11 | 12 | | 13 | | | | | |
| 36.0 | | | | | | | | | | | | |
| a.5 | | | | | | | | | | | | |
| 24.0 | | | | | | | | | | | | |
| 12.0 | | | | | | | | | | _ | | |
| 030 | | | | | | | | | | | | |
| 30 | 3000 | . 5000 | . 7000. | 9000. 1 | 1000. 13 | 3000. 150 Frequen | | | . 21000. | 23000. | 25000. 27 | 000. 3000 |
| Site | | : 03 <i>C</i> I | 407-KS | ; | | | | | | | | |
| Condition | on | • FCC | CI ASS | -B 3m 3 | 117 SN | 100240 | 138 VE | RTICAL | | | | |
| | ••• | ., | CEMOO | | | | | | | | | |
| | | 1100 | CENTOO | | | | | | | | | |
| | | .,, | CENSS | | | | | | | | | |
| | | 1700 | CLNOS | | | | | | | | | |
| | | | 0ver | Limit | | | | Preamp Factor | A/Pos | T/Pos | Remark | |
| | Freq | Level | Over Limit | Line | Level | Factor | Loss | Factor | | | Remark | |
| _ | Freq MHz c | Level dBuV/m | Over Limit ——————————————————————————————————— | Line dBuV/m | Level dBuV | Factor dB/m | Loss | Factor dB | A/Pos cm | deg | | _ |
| 1 2 | Freq MHz 0 | Level dBuV/m 24.18 | Over Limit dB | Line | dBuV 38.25 | Factor dB/m | Loss dB 0.68 | Factor | | deg | Remark ———————————————————————————————————— | |
| 1 2 3 | Freq MHz c 43.58 86.26 198.78 | Level dBuV/m 24.18 21.21 24.17 | Over Limit dB -15.82 -18.79 -19.33 | dBuV/m 40.00 40.00 43.50 | dBuV 38.25 37.90 39.59 | Factor dB/m 17.36 14.10 14.71 | dB 0.68 1.27 2.06 | 32.11 32.06 32.19 | Cm | deg | Peak Peak Peak | |
| 1 2 3 4 | Freq MHz 6 43.58 86.26 198.78 268.62 | Level dBuV/m 24.18 21.21 24.17 23.75 | Over Limit dB -15.82 -18.79 -19.33 -22.25 | Line dBuV/m 40.00 40.00 43.50 46.00 | dBuV 38.25 37.90 39.59 34.19 | Factor dB/m 17.36 14.10 14.71 19.23 | 0.68 1.27 2.06 2.39 | 32.11 32.06 32.19 32.06 | Cm | deg | Peak Peak Peak Peak | |
| 1 2 3 4 5 | Freq MHz 6 43.58 86.26 198.78 268.62 480.08 | Level dBuV/m 24.18 21.21 24.17 23.75 26.84 | Over Limit dB -15.82 -18.79 -19.33 -22.25 -19.16 | Line dBuV/m 40.00 40.00 43.50 46.00 46.00 | dBuV 38.25 37.90 39.59 34.19 32.53 | 17.36 14.10 14.71 19.23 23.32 | 0.68 1.27 2.06 2.39 3.19 | 32.11 32.06 32.19 32.06 32.20 | Cm | deg | Peak Peak Peak Peak Peak | |
| 1 2 3 4 | Freq MHz 43.58 86.26 198.78 268.62 480.08 881.66 | Level dBuV/m 24.18 21.21 24.17 23.75 26.84 | Over Limit dB -15.82 -18.79 -19.33 -22.25 -19.16 | Line dBuV/m 40.00 40.00 43.50 46.00 46.00 | dBuV 38.25 37.90 39.59 34.19 32.53 34.69 | Factor dB/m 17.36 14.10 14.71 19.23 | 0.68 1.27 2.06 2.39 3.19 4.32 | 32.11 32.06 32.19 32.06 | | deg | Peak Peak Peak Peak | |
| 1 2 3 4 5 6 p 7 | Freq MHz 6 43.58 86.26 198.78 268.62 480.08 881.66 941.80 4825.00 | Level dBuV/m 24.18 21.21 24.17 23.75 26.84 36.57 31.69 45.62 | Over Limit dB -15.82 -18.79 -19.33 -22.25 -19.16 -9.43 -28.38 | Line dBuV/m 40.00 40.00 43.50 46.00 46.00 74.00 | dBuV 38.25 37.90 39.59 34.19 32.53 34.69 28.22 66.08 | Tactor dB/m 17.36 14.10 14.71 19.23 23.32 28.94 30.02 33.98 | Loss dB 0.68 1.27 2.06 2.39 3.19 4.32 4.46 10.31 | 32.11 32.06 32.19 32.06 32.20 31.38 31.01 64.75 | | deg | Peak Peak Peak Peak Peak Peak | |
| 1 2 3 4 5 6 7 7 8 | Freq MHz 6 43.58 86.26 198.78 268.62 480.08 881.66 941.80 4825.00 6984.00 | Level 24.18 21.21 24.17 23.75 26.84 36.57 31.69 45.62 44.14 | Over Limit dB -15.82 -18.79 -19.33 -22.25 -19.16 -9.43 -28.38 -29.86 | Line dBuV/m 40.00 40.00 43.50 46.00 46.00 74.00 74.00 | dBuV 38.25 37.90 39.59 34.19 32.53 34.69 28.22 66.08 59.58 | 17.36 14.10 14.71 19.23 23.32 28.94 30.02 33.98 35.59 | d8 0.68 1.27 2.06 2.39 3.19 4.32 4.46 10.31 12.58 | 32.11 32.06 32.19 32.06 32.20 31.38 31.01 64.75 63.61 | | deg | Peak Peak Peak Peak Peak Peak Peak Peak | |
| 1 2 3 4 5 6 p 7 8 9 6 | Freq MHz 6 43.58 86.26 198.78 268.62 480.08 881.66 941.80 4825.00 6984.00 7987.00 | 24.18 24.17 23.75 26.84 36.57 31.69 45.62 44.14 | Over Limit dB -15.82 -18.79 -19.33 -22.25 -19.16 -9.43 -28.38 -29.86 -29.15 | Line dBuV/m 40.00 40.00 43.50 46.00 46.00 74.00 74.00 74.00 | dBuV 38.25 37.90 39.59 34.19 32.53 34.69 28.22 66.08 59.58 59.62 | 17.36 14.10 14.71 19.23 23.32 28.94 30.02 33.98 35.59 35.79 | d8 0.68 1.27 2.06 2.39 3.19 4.32 4.46 10.31 12.58 13.46 | 32.11 32.06 32.19 32.06 32.20 31.38 31.01 64.75 63.61 64.02 | | deg | Peak Peak Peak Peak Peak Peak Peak Peak | |
| 1 2 3 4 5 6 p 7 8 4 9 10 | Freq MHz 6 43.58 86.26 198.78 268.62 480.08 881.66 941.80 4825.00 6984.00 | Level dBuV/m 24.18 21.21 24.17 23.75 26.84 36.57 31.69 45.64 44.85 45.64 | Over Limit dB -15.82 -18.79 -19.33 -22.25 -19.16 -9.43 -28.38 -29.86 -29.15 -28.36 | Line 40.00 40.00 43.50 46.00 46.00 74.00 74.00 74.00 74.00 | 38.25 37.90 39.59 34.19 32.53 34.69 28.22 66.08 59.58 59.62 56.08 | 17.36 14.10 14.71 19.23 23.32 28.94 30.02 33.98 35.59 | dB 0.68 1.27 2.06 2.39 3.19 4.32 4.46 10.31 12.58 13.46 15.46 | 32.11 32.06 32.19 32.06 32.20 31.38 31.01 64.75 63.61 | | deg | Peak Peak Peak Peak Peak Peak Peak Peak | |

Note:

- 1. Level($dB\mu V/m$) = Read Level($dB\mu V$) + Antenna Factor(dB/m) + Cable Loss(dB) Preamp Factor(dB)
- 2. Over Limit(dB) = Level(dB μ V/m) Limit Line(dB μ V/m)

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4. List of Measuring Equipment

| Instrument | Manufacturer | Model No. | Serial No. | Characteristics | Calibration Date | Test Date | Due Date | Remark |
|-----------------------------------|--------------|----------------|--------------|----------------------------|---------------------|---------------------------------|---------------|--------------------------|
| EMI Test Receiver | R&S | ESR7 | 101403 | 9kHz~7GHz;Ma x 30dBm | Oct. 10, 2023 | Oct. 20, 2023 ~Nov. 08, 2023 | Oct. 09, 2024 | Radiation (03CH07-KS) |
| EXA Spectrum Analyzer | Keysight | N9010A | MY55370528 | 10Hz-44G,MAX 30dB | Oct. 10, 2023 | Oct. 20, 2023 ~Nov. 08, 2023 | Oct. 09, 2024 | Radiation (03CH07-KS) |
| Bilog Antenna | TeseQ | CBL6111D | 59913 | 30MHz-1GHz | Aug. 12, 2023 | Oct. 20, 2023 ~Nov. 08, 2023 | Aug. 11, 2024 | Radiation (03CH07-KS) |
| Double Ridge Horn Antenna | ETS-Lindgren | 3117 | 00218642 | 1GHz~18GHz | Apr. 06, 2023 | Oct. 20, 2023 ~Nov. 08, 2023 | Apr. 05, 2024 | Radiation (03CH07-KS) |
| SHF-EHF Horn | Com-power | AH-840 | 101115 | 18GHz~40GHz | Oct. 16, 2023 | Oct. 20, 2023 ~Nov. 08, 2023 | Oct. 15, 2024 | Radiation (03CH07-KS) |
| Amplifier | EM | EM18G40G GA | 060851 | 18~40GHz | Jan. 05, 2023 | Oct. 20, 2023 ~Nov. 08, 2023 | Jan. 04, 2024 | Radiation (03CH07-KS) |
| Amplifier | SONOMA | 310N | 413741 | 9KHz-1GHz | Jan. 05, 2023 | Oct. 20, 2023 ~Nov. 08, 2023 | Jan. 04, 2024 | Radiation (03CH07-KS) |
| Amplifier | EM | EM01G18GA | 060834 | 1Ghz-18Ghz | Oct. 10, 2023 | Oct. 20, 2023 ~Nov. 08, 2023 | Oct. 09, 2024 | Radiation (03CH07-KS) |
| AC Power Source | Chroma | 61601 | 616010002473 | N/A | NCR | Oct. 20, 2023 ~Nov. 08, 2023 | NCR | Radiation (03CH07-KS) |
| Turn Table | EM | EM 1000-T | N/A | 0~360 degree | NCR | Oct. 20, 2023 ~Nov. 08, 2023 | NCR | Radiation (03CH07-KS) |
| Antenna Mast | EM | EM 1000-A | N/A | 1 m~4 m | NCR | Oct. 20, 2023 ~Nov. 08, 2023 | NCR | Radiation (03CH07-KS) |
| EMI Receiver | R&S | ESCI7 | 100768 | 9kHz~7GHz; | May 16, 2023 | Nov. 13, 2023 | May 15, 2024 | Conduction (CO01-KS) |
| AC LISN (for auxiliary equipment) | MessTec | AN3016 | 060103 | 9kHz~30MHz | Oct. 11, 2023 | Nov. 13, 2023 | Oct. 10, 2024 | Conduction (CO01-KS) |
| AC LISN | MessTec | AN3016 | 060105 | 9kHz~30MHz | May 16, 2023 | Nov. 13, 2023 | May 15, 2024 | Conduction (CO01-KS) |
| AC Power Source | Chroma | 61602 | ABP000000811 | AC 0V~300V, 45Hz~1000Hz | Oct. 11, 2023 | Nov. 13, 2023 | Oct. 10, 2024 | Conduction (CO01-KS) |
| EMI Receiver | R&S | ESR7 | 101630 | 9kHz~7GHz; | Jul. 06, 2023 | Oct. 26, 2023 | Jul. 05, 2024 | Conduction (CO01-SZ) |
| AC LISN | R&S | ENV216 | 100063 | 9kHz~30MHz | Aug. 21, 2023 | Oct. 26, 2023 | Aug. 20, 2024 | Conduction (CO01-SZ) |
| AC LISN (for auxiliary equipment) | EMCO | 3816/2SH | 00103892 | 9kHz~30MHz | Oct. 16, 2023 | Oct. 26, 2023 | Oct. 15, 2024 | Conduction (CO01-SZ) |
| AC Power Source | Chroma | 61602 | 616020000891 | 100Vac~250Vac | Jul. 07, 2023 | Oct. 26, 2023 | Jul. 06, 2024 | Conduction (CO01-SZ) |

NCR: No Calibration Required

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5. Measurement Uncertainty

Uncertainty of Conducted Emission Measurement (150 kHz ~ 30 MHz)_CO01-KS

| Measuring Uncertainty for a Level of Confidence | 0.04 ID |
|---|---------|
| of 95% (U = 2Uc(y)) | 2.94dB |

Uncertainty of Conducted Emission Measurement (150 kHz ~ 30 MHz)_CO01-SZ

| Measuring Uncertainty for a Level of Confidence | 2.70dB |
|---|--------|
| of 95% (U = 2Uc(y)) | 2.7008 |

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

| Measuring Uncertainty for a Level of Confidence | 6.20dB |
|---|--------|
| of 95% (U = 2Uc(y)) | 0.20UB |

Uncertainty of Radiated Emission Measurement (1000 MHz ~ 18000 MHz)

| Measuring Uncertainty for a Level of Confidence | |
|---|--------|
| of 95% (U = 2Uc(y)) | 4.86dB |

Uncertainty of Radiated Emission Measurement (18000 MHz ~ 40000 MHz)

| Measuring Uncertainty for a Level of Confidence | 5.24dB |
|---|--------|
| of 95% (U = 2Uc(y)) | J.24ub |

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