



FCC Test Report

APPLICANT : Motorola Mobility LLC
EQUIPMENT : Mobile Cellular Phone
BRAND NAME : Motorola
MODEL NAME : XT2651-1, XT2651-2, XT2651-3
FCC ID : IHDT56AW3
STANDARD : 47 CFR Part 15 Subpart B
CLASSIFICATION : Certification
TEST DATE(S) : Jan. 09, 2026 ~ Jan. 15, 2026

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.

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.

Jason Jia

Approved by: Jason Jia



Sporton International Inc. (Kunshan)

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



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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FC5N1310	Rev. 01	Initial issue of report	Feb. 11, 2026

SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
3.1	15.107	AC Conducted Emission	< 15.107 limits	PASS	Under limit 5.96 dB at 4.454 MHz
3.2	15.109	Radiated Emission	< 15.109 limits	PASS	Under limit 3.47 dB at 480.08 MHz for Quasi-Peak

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/manufacture 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.



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	XT2651-1, XT2651-2, XT2651-3
FCC ID	IHDT56AW3
EUT supports Radios application	GSM/WCDMA/LTE/5G NR WLAN 2.4GHz 802.11b/g/n HT20/HT40 WLAN 2.4GHz 802.11ax HE20/HE40 WLAN 2.4GHz 802.11be EHT20/ EHT40 WLAN 5GHz 802.11a/n HT20/HT40 WLAN 5GHz 802.11ac VHT20/VHT40/VHT80/VHT160 WLAN 5GHz 802.11ax HE20/HE40/HE80/HE160 WLAN 5GHz 802.11be EHT20/EHT40/EHT80/EHT160 WLAN 6GHz 802.11a/ax HE20/HE40/HE80/HE160 WLAN 6GHz 802.11be EHT20/EHT40/EHT80/EHT160/EHT320 Bluetooth BR/EDR/LE GNSS/NFC/WPT/UWB
IMEI Code	Conduction: 351108230030815/351108230030823 Radiation: 351108230030799/351108230030807
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 kinds of EUT, sample 1(XT2651-2, XT2651-3) and sample 2(XT2651-1), the difference could be referred to the XT2651-1, XT2651-2, XT2651-3_Operational Description of Product Equality Declaration which is exhibit separately. According to the difference, we choose sample 1 to full test.
3. The different model name is different for market purpose.



1.4. Product Specification of Equipment Under Test

Standards-related Product Specification	
Tx Frequency	GSM850: 824 MHz ~ 849 MHz GSM1900: 1850MHz ~ 1910MHz WCDMA Band II: 1850 MHz ~ 1910 MHz WCDMA Band IV : 1710 MHz ~ 1755 MHz WCDMA Band V: 824 MHz ~ 849 MHz LTE Band 2 : 1850 MHz ~ 1910 MHz LTE Band 4 : 1710 MHz ~ 1755 MHz LTE Band 5 : 824 MHz ~ 849 MHz LTE Band 7 : 2500 MHz ~ 2570 MHz LTE Band 12 : 699 MHz ~ 716 MHz LTE Band 13 : 777 MHz ~ 787 MHz LTE Band 14 : 788 MHz ~ 798 MHz LTE Band 17 : 704 MHz ~ 716 MHz LTE Band 25 : 1850 MHz ~ 1915 MHz LTE Band 26 : 814 MHz ~ 849 MHz LTE Band 30 : 2305 MHz ~ 2315 MHz LTE Band 38 : 2570 MHz ~ 2620 MHz LTE Band 41 : 2496 MHz ~ 2690 MHz LTE Band 42 : 3450 MHz ~ 3550 MHz LTE Band 43 : 3600 MHz ~ 3700 MHz LTE Band 48 : 3550 MHz ~ 3700 MHz LTE Band 66 : 1710 MHz ~ 1780 MHz LTE Band 71: 663 MHz ~ 698 MHz 5G NR n2 : 1850 MHz ~ 1910 MHz 5G NR n5 : 824 MHz ~ 849 MHz 5G NR n7 : 2500 MHz ~ 2570 MHz 5G NR n12 : 699 MHz ~ 716 MHz 5G NR n13 : 777 MHz ~ 787 MHz 5G NR n14 : 788 MHz ~ 798 MHz 5G NR n25 : 1850 MHz ~ 1915 MHz 5G NR n26 : 814 MHz ~ 849 MHz 5G NR n30 : 2305 MHz ~ 2315 MHz 5G NR n38 : 2570 MHz ~ 2620 MHz 5G NR n41 : 2496 MHz ~ 2690 MHz 5G NR n48 : 3550 MHz ~ 3700 MHz 5G NR n66 : 1710 MHz ~ 1780 MHz 5G NR n70 : 1695 MHz ~ 1710 MHz 5G NR n71 : 663 MHz ~ 698 MHz 5G NR n77 : 3450 MHz ~ 3550 MHz; 3700 MHz ~ 3980 MHz; 5G NR n78 : 3450 MHz ~ 3550 MHz; 3700 MHz ~ 3800 MHz; 802.11b/g/n/ax/be: 2400 MHz ~ 2483.5 MHz 802.11a/n/ac/ax/be: 5150 MHz ~ 5250 MHz; 5250 MHz ~ 5350 MHz; 5470 MHz ~ 5725 MHz 5725 MHz ~ 5850 MHz 802.11a/ax/be: 5925 MHz ~ 7125 MHz Bluetooth: 2400 MHz ~ 2483.5 MHz NFC : 13.56 MHz WPT: 110kHz~ 145 kHz UWB: 6489.6 MHz & 7987.2 MHz

**Rx Frequency**

GSM850: 869 MHz ~ 894 MHz
GSM1900: 1930 MHz ~ 1990 MHz
WCDMA Band II: 1930 MHz ~ 1990 MHz
WCDMA Band IV : 2110 MHz ~ 2155 MHz
WCDMA Band V: 869 MHz ~ 894 MHz
LTE Band 2 : 1930 MHz ~ 1990 MHz
LTE Band 4 : 2110 MHz ~ 2155 MHz
LTE Band 5 : 869 MHz ~ 894 MHz
LTE Band 7 : 2620 MHz ~ 2690 MHz
LTE Band 12 : 729 MHz ~ 746 MHz
LTE Band 13 : 746 MHz ~ 756 MHz
LTE Band 14 : 758 MHz ~ 768 MHz
LTE Band 17 : 734 MHz ~ 746 MHz
LTE Band 25 : 1930 MHz ~ 1995 MHz
LTE Band 26 : 859 MHz ~ 894 MHz
LTE Band 29 : 717 MHz ~ 728 MHz
LTE Band 30 : 2350 MHz ~ 2360 MHz
LTE Band 38: 2570 MHz ~ 2620 MHz
LTE Band 41 : 2496 MHz ~ 2690 MHz
LTE Band 42 : 3450 MHz ~ 3550 MHz
LTE Band 43 : 3600 MHz ~ 3700 MHz
LTE Band 48 : 3550 MHz ~ 3700 MHz
LTE Band 66 : 2110 MHz~ 2200 MHz
LTE Band 71 : 617 MHz ~ 652 MHz
5G NR n2 : 1930 MHz ~ 1990 MHz
5G NR n5 : 869 MHz ~ 894 MHz
5G NR n7 : 2620 MHz ~ 2690 MHz
5G NR n12 : 729 MHz ~ 746 MHz
5G NR n13 : 746 MHz ~ 756 MHz
5G NR n14 : 758 MHz ~ 768 MHz
5G NR n25 : 1930 MHz ~ 1995 MHz
5G NR n26 : 859 MHz ~ 894 MHz
5G NR n29 : 717 MHz ~ 728 MHz
5G NR n30 : 2350 MHz ~ 2360 MHz
5G NR n38: 2570 MHz ~ 2620 MHz
5G NR n41 : 2496 MHz ~ 2690 MHz
5G NR n48 : 3550 MHz ~ 3700 MHz
5G NR n66 : 2110 MHz~ 2200 MHz
5G NR n70 : 1995 MHz ~ 2020 MHz
5G NR n71 : 617 MHz ~ 652 MHz
5G NR n77 : 3450 MHz ~ 3550 MHz; 3700 MHz ~ 3980 MHz;
5G NR n78 : 3450 MHz ~ 3550 MHz; 3700 MHz ~ 3800 MHz;
802.11b/g/n/ax/be: 2400 MHz ~ 2483.5 MHz
802.11a/n/ac/ax/be: 5150 MHz ~ 5250 MHz;
5250 MHz ~ 5350 MHz;
5470 MHz ~ 5725 MHz
5725 MHz ~ 5850 MHz
802.11a/ax/be: 5925 MHz ~ 7125 MHz
Bluetooth: 2400 MHz ~ 2483.5 MHz
NFC : 13.56 MHz
GNSS : 1559 MHz ~ 1610 MHz, 1164 MHz ~ 1215 MHz
WPT: 100kHz~ 148 kHz
UWB: 6489.6 MHz & 7987.2 MHz

Antenna Type	<Ant 0/2/3/4/5>WWAN : IFA Antenna <Ant 1> WWAN/WLAN 5G/6G : IFA Antenna <Ant 6> WWAN/WLAN 5G/6G/GNSS : IFA Antenna <Ant 7> Bluetooth/WLAN 2.4G/GNSS : IFA Antenna <Ant 8>WWAN/UWB : Loop Antenna <Ant 10>WWAN/UWB : PIFA Antenna <Ant 11> Bluetooth/WLAN 2.4G : IFA Antenna NFC: Coil Antenna WPT: Coil Antenna
Type of Modulation	GSM/GPRS: GMSK EDGE(MCS 0-4): GMSK / (MCS 5-9): 8PSK WCDMA : BPSK HSPA : QPSK HSPA+ : 16QAM(16QAM not support uplink) DC-HSDPA : 64QAM LTE: QPSK / 16QAM / 64QAM / 256QAM 5G NR: DFT-s-OFDM (PI/2 BPSK / QPSK / 16QAM / 64QAM / 256QAM) CP-OFDM (QPSK / 16QAM / 64QAM / 256QAM) 802.11b: DSSS (DBPSK / DQPSK / CCK) 802.11a/g/n: OFDM (BPSK / QPSK / 16QAM / 64QAM) 802.11ac: OFDM (BPSK / QPSK / 16QAM / 64QAM / 256QAM) 802.11ax: OFDM (BPSK / QPSK / 16QAM / 64QAM / 256QAM / 1024QAM) 802.11be: OFDM (BPSK / QPSK / 16QAM / 64QAM / 256QAM / 1024QAM / 4096QAM) Bluetooth LE : GFSK/ASK Bluetooth (1Mbps) : GFSK Bluetooth (2Mbps) : $\pi/4$ -DQPSK Bluetooth (3Mbps) : 8-DPSK GNSS : BPSK NFC: ASK WPT: ASK UWB: BPM-BPSK

1.5. Modification of EUT

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

1.6. 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

1.7. Test Software

Item	Site	Manufacturer	Name	Version
1.	03CH07-KS	AUDIX	E3	210616
2.	CO01-KS	AUDIX	E3	6.2009-8-24

1.8. 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.

1.9. Specification of Accessory

Specification of Accessory				
AC Adapter 1(US)	Brand Name	Motorola(Salcomp)	Model Name	MC-901
AC Adapter 1(EU)	Brand Name	Motorola(Salcomp)	Model Name	MC-902
AC Adapter 1(UK)	Brand Name	Motorola(Salcomp)	Model Name	MC-903
AC Adapter 1(AU)	Brand Name	Motorola(Salcomp)	Model Name	MC-905
AC Adapter 1(AR)	Brand Name	Motorola(Salcomp)	Model Name	MC-906
AC Adapter 1(BR)	Brand Name	Motorola(Salcomp)	Model Name	MC-907
AC Adapter 1(Chile)	Brand Name	Motorola(Salcomp)	Model Name	MC-909
AC Adapter 2(IN)	Brand Name	Motorola(Salcomp)	Model Name	MC-904
AC Adapter 2(IN Local)	Brand Name	Motorola(Salcomp)	Model Name	MC-904
AC Adapter 3(US)	Brand Name	Motorola(AOHAI)	Model Name	MC-901
AC Adapter 3(EU)	Brand Name	Motorola(AOHAI)	Model Name	MC-902
AC Adapter 3(UK)	Brand Name	Motorola(AOHAI)	Model Name	MC-903
AC Adapter 3(AR)	Brand Name	Motorola(AOHAI)	Model Name	MC-906
AC Adapter 3(BR)	Brand Name	Motorola(AOHAI)	Model Name	MC-907
AC Adapter 3(Chile)	Brand Name	Motorola(AOHAI)	Model Name	MC-909
AC Adapter 4(IN)	Brand Name	Motorola(AOHAI)	Model Name	MC-904
AC Adapter 4(IN Local)	Brand Name	Motorola(AOHAI)	Model Name	MC-904
Battery 1	Brand Name	Motorola(ATL)	Model Name	SH29
Battery 2	Brand Name	Motorola(ATL)	Model Name	SH31
USB Cable 1	Brand Name	Motorola(SAIBAO)	Model Name	SC18D71644
USB Cable 2	Brand Name	Motorola(Luxshare)	Model Name	SC18E08104
USB Cable 3	Brand Name	Motorola(SAIBAO)	Model Name	SC18D86731
USB Cable 4	Brand Name	Motorola(Luxshare)	Model Name	SC18E08103
USB Cable 5	Brand Name	Motorola(SAIBAO)	Model Name	SC18E46326
USB Cable 6	Brand Name	Motorola(SAIBAO)	Model Name	SC18E59082
Stylus	Brand Name	Motorola(Maxeye)	Model Name	XT2604-1

2. Test Configuration of Equipment Under Test

2.1. Test Mode

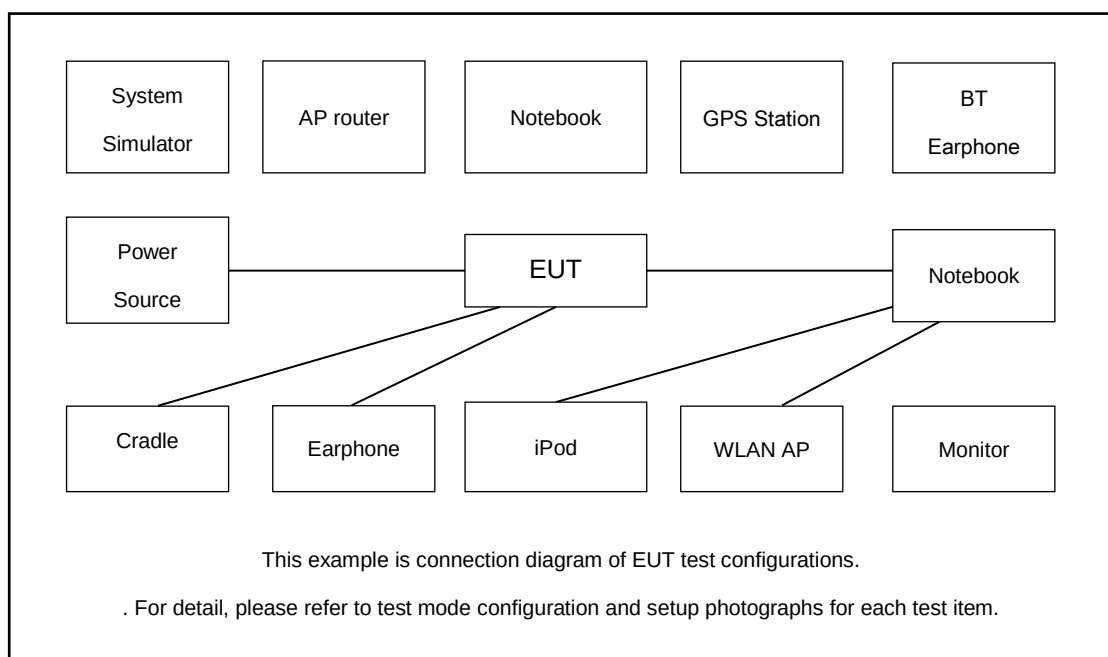
The EUT has been associated with peripherals pursuant to ANSI C63.4-2014 and configuration operated in a manner tended to maximize its emission characteristics in a typical application.

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
AC Conducted Emission	Mode 1: GSM 850 Rx(Low) + Bluetooth Idle + WLAN (2.4G) Idle + Open Mode + Camera(Rear) + Battery + UWB Idle +SIM 1 + USB Cable 1(Charging from Adapter1)
	Mode 2: WCDMA Band V Rx(Middle) + Bluetooth Idle + WLAN (5G) Idle + Open Mode + Camera(Front) + Battery + UWB Link + SIM 2 + USB Cable 2(Charging from Adapter2)
	Mode 3: LTE Band 5 Rx(High) + Bluetooth Idle + WLAN (6G) Idle + Open Mode + NFC On + Battery + UWB Idle + SIM 1 + USB Cable3(Charging from Adapter3)
	Mode 4: LTE Band 12 Rx(High) + Bluetooth Idle + WLAN (2.4G) Idle + Open Mode + MPEG4(Run Color Bar) + Battery + UWB Idle + SIM 1 + USB Cable4(Charging from Adapter4)
	Mode 5: LTE Band 13 Rx(High) + Bluetooth Idle + WLAN (5G) Idle + Open Mode + GNSS Rx + Battery + UWB Link + SIM 1 + USB Cable5 (Charging from Adapter1)
	Mode 6: LTE Band 26 Rx(Low) + Bluetooth Idle + WLAN (6G) Idle + Open Mode + Camera(Rear) + Battery + UWB Idle + SIM 1 + USB Cable 1(Data Link with Notebook) + EUT (eMMC) USB Data Link to PC/NB
	Mode 7: LTE Band 12 Rx(Middle) + Bluetooth Idle + WLAN (2.4G) Idle + Open Mode + Camera(Rear) + Battery + UWB Idle + SIM 1 + USB Cable 1(Data Link with Notebook) + PC/NB USB Data Link to EUT (eMMC)
	Mode 8: LTE Band 71 Rx(Middle) + Bluetooth Idle + WLAN (5G) Idle + Open Mode + Camera(Rear) + Battery + UWB Link + SIM 1 + USB Cable 2 (Data Link with Notebook) + EUT (eMMC) USB Data Link to PC/NB
	Mode 9: SA N5 Rx(Low) Idle + Bluetooth Idle + WLAN (6G) Idle + Open Mode + Camera(Rear) + Battery + UWB Idle +SIM 1 + USB Cable 3(Data Link with Notebook) + EUT (eMMC) USB Data Link to PC/NB
	Mode 10 : SA N26 Rx(Low) Idle + Bluetooth Idle + WLAN (2.4G) Idle + Open Mode +Camera(Rear) + Battery + UWB Idle + SIM 1 + USB Cable 4(Data Link with Notebook) + EUT (eMMC) USB Data Link to PC/NB
	Mode 11 : SA N26 Rx(High) Idle + Bluetooth Idle + WLAN (5G) Idle + Open Mode + Camera(Rear) + Battery + UWB Link + SIM 1 + USB Cable 5(Data Link with Notebook) + EUT (eMMC) USB Data Link to PC/NB
	Mode 12 : SA N71 Rx(Middle) Idle + Bluetooth Idle + WLAN (6G) Idle + Open Mode + Camera(Rear) + Battery + UWB Idle + Earphone +SIM 1 + USB Cable5 (EUT Charging from Wireless charger) + Adapter 1 Connect to Wireless charger
	Mode 13 : SA N29 Rx(Low) Idle + Bluetooth Idle + WLAN (2.4G) Idle + Open Mode + Camera(Rear) + Battery + UWB Idle + SIM 1 + USB Cable1(Charging from Adapter1) + EUT Wireless Charging to other phones
	Mode 14 : SA N71 Rx(Middle) Idle + Bluetooth Idle + WLAN (5G) Idle + Open Mode + Camera(Rear) + Battery + UWB Link + SIM 1 + USB Cable1(Charging from Adapter1) + EUT Wireless Charging to Pen
	Mode 15 : SA N71 Rx(Middle) Idle + Bluetooth Idle + WLAN (6G) Idle + Close Mode + Camera(Rear) + Battery + UWB Idle + Earphone +SIM 1 + USB Cable5 (EUT Charging from Wireless charger) + Adapter 1Connect to Wireless charger

Radiated Emissions	Mode 1: GSM 850 Rx(Low) + Bluetooth Idle + WLAN (2.4G) Idle + Open Mode + Camera(Rear) + Battery + UWB Idle +SIM 1 + USB Cable 1 (Charging from Adapter1) Mode 2: WCDMA Band V Rx(Middle) + Bluetooth Idle + WLAN (5G) Idle + Open Mode + Camera(Front) + Battery + UWB Link + SIM 2 + USB Cable 2 (Charging from Adapter2) Mode 3: LTE Band 5 Rx(High) + Bluetooth Idle + WLAN (6G) Idle + Open Mode + NFC On + Battery + UWB Idle + SIM 1 + USB Cable 3 (Charging from Adapter3) Mode 4: LTE Band 12 Rx(High) + Bluetooth Idle + WLAN (2.4G) Idle + Open Mode + MPEG4(Run Color Bar) + Battery + UWB Idle +SIM 1+ USB Cable 4 (Charging from Adapter4) Mode 5: LTE Band 13 Rx(High) + Bluetooth Idle + WLAN (5G) Idle + Open Mode + GNSS Rx + Battery + UWB Link + SIM 1 + USB Cable 5 (Charging from Adapter 1) Mode 6: LTE Band 26 Rx(Low) + Bluetooth Idle + WLAN (6G) Idle + Open Mode + GNSS Rx + Battery + UWB Idle + SIM 1 + USB Cable 1 (Data Link with Notebook) + EUT (eMMC) USB Data Link to PC/NB Mode 7: LTE Band 12 Rx(Middle) + Bluetooth Idle + WLAN (2.4G) Idle + Open Mode + GNSS Rx + Battery + UWB Idle +SIM 1 + USB Cable 1 (Data Link with Notebook) + PC/NB USB Data Link to EUT (eMMC) Mode 8: LTE Band 71 Rx(Middle) + Bluetooth Idle + WLAN (5G) Idle + Open Mode +GNSS Rx + Battery + UWB Link + SIM 1 + USB Cable 2 (Data Link with Notebook) + EUT (eMMC) USB Data Link to PC/NB Mode 9: SA N5 Rx(Low) Idle + Bluetooth Idle + WLAN (6G) Idle + Open Mode + GNSS Rx + Battery + UWB Idle +SIM 1 + USB Cable 3 (Data Link with Notebook) + EUT (eMMC) USB Data Link to PC/NB Mode 10 : SA N26 Rx(Low) Idle + Bluetooth Idle + WLAN (2.4G) Idle + Open Mode + GNSS Rx + Battery + UWB Idle + SIM 1 + USB Cable 4 (Data Link with Notebook) + EUT (eMMC) USB Data Link to PC/NB Mode 11 : SA N26 Rx(High) Idle + Bluetooth Idle + WLAN (5G) Idle + Open Mode + GNSS Rx + Battery + UWB Link + SIM 1 + USB Cable 5 (Data Link with Notebook) + EUT (eMMC) USB Data Link to PC/NB Mode 12 : SA N71 Rx(Middle) Idle + Bluetooth Idle + WLAN (6G) Idle + Open Mode + GNSS Rx + Battery + UWB Idle + Earphone + SIM 1 + USB Cable 3 (EUT Charging from Wireless charger) + Adapter 2 Connect to Wireless charger Mode 13 : SA N29 Rx(Low) Idle + Bluetooth Idle + WLAN (2.4G) Idle + Open Mode + GNSS Rx + Battery + UWB Idle + SIM 1 + USB Cable3 (Charging from Adapter1) + EUT Wireless Charging to other phones Mode 14 : LTE Band 13 Rx(High) + Bluetooth Idle + WLAN (5G) Idle + Open Mode + GNSS Rx + Battery + UWB Link + SIM 1 + USB Cable3 (Charging from Adapter1) + EUT Wireless Charging to Pen Mode 15 : SA N5 Rx(Low) Idle + Bluetooth Idle + WLAN (6G) Idle + Close Mode + GNSS Rx + Battery + UWB Idle +SIM 1 + USB Cable 3 (Data Link with Notebook) + EUT (eMMC) USB Data Link to PC/NB
Remark:	1. The worst case of AC is mode 12; only the test data of this mode is reported. 2. The worst case of RE is mode 9; only the test data of this mode is reported. 3. Data Link with Notebook / PC means data application transferred mode between EUT and Notebook / PC. 4. Pre-scanned Low/Middle/High channel, the worst channel was recorded in this report.

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.	LTE Base Station	Anritsu	MT8821C	N/A	N/A	Unshielded,1.8m
2.	5GNR Base Station	Anritsu	MT8000A	N/A	N/A	Unshielded,1.8m
3.	System Simulator	Anritsu	MT8820C	N/A	N/A	Unshielded,1.8m
4.	Bluetooth Earphone	Lenovo	thinkplus-BH3	N/A	N/A	N/A
5.	LABSAT GPS Simulator	RACELOGIC	RLLS03-2RP	N/A	N/A	Unshielded,1.8m
6.	GPS Station	ADIVIC	MP9000	N/A	N/A	Unshielded,1.8m
7.	GNSS Station	R&S	SMBV100A	N/A	N/A	Unshielded, 1.8m
8.	Notebook	Lenovo	G480	QDS-BRCM1050I	N/A	shielded cable DC O/P 1.8m , Unshielded AC I/P cable 1.8m
9.	WLAN AP	D-link	DIR-655	KA21R655B1	N/A	Unshielded,1.8m
10.	Hard disk	KINGSHARE	KSP6120G	N/A	N/A	N/A
11.	Earphone	N/A	N/A	N/A	N/A	N/A
12.	Wireless charger	N/A	N/A	N/A	N/A	N/A

2.4. EUT Operation Test Setup

The EUT was in GSM or WCDMA or LTE or 5G NR 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 GNSS function to make the EUT receive continuous signals from GNSS station.
5. Turn on NFC function
6. Turn on UWB function

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 (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.

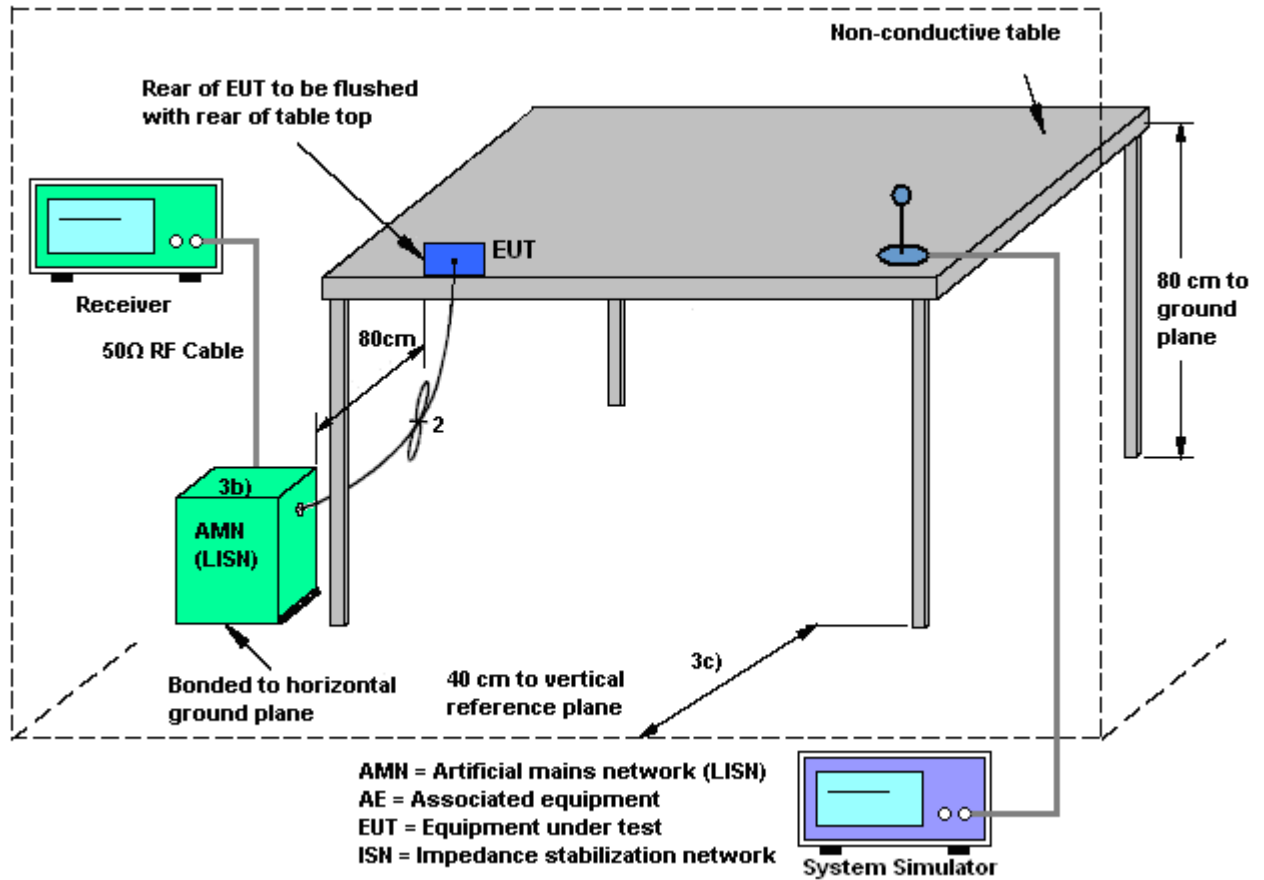
3.1.2 Measuring Instruments

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.

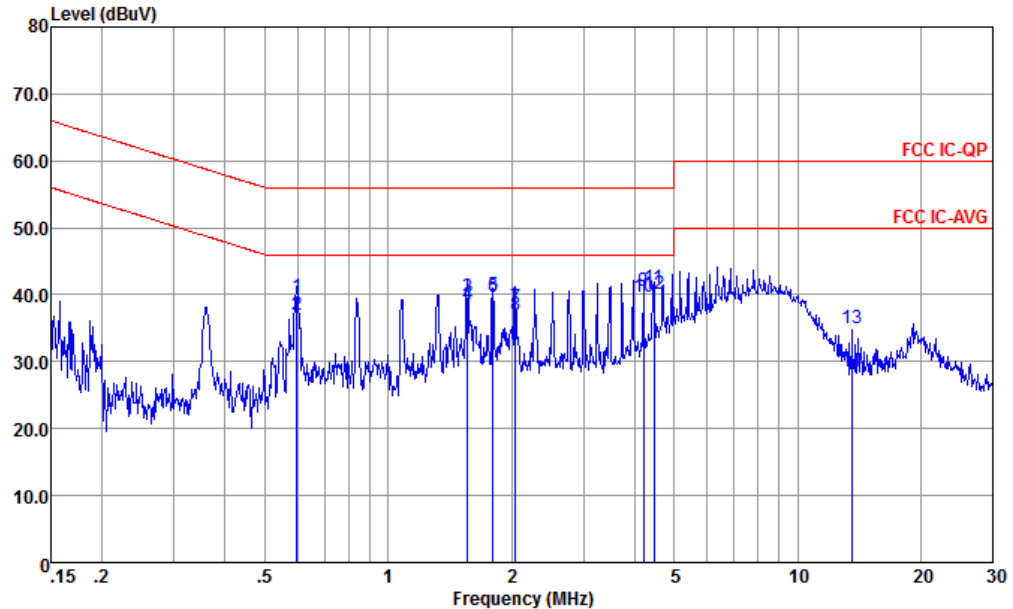
3.1.4 Test Setup





3.1.5 Test Result of AC Conducted Emission

Test Engineer :	Amos	Temperature :	25.3~26.2°C
		Relative Humidity :	38~40%
Test Voltage :	120Vac / 60Hz	Phase :	Line
Remark :	All emissions not reported here are more than 10 dB below the prescribed limit.		

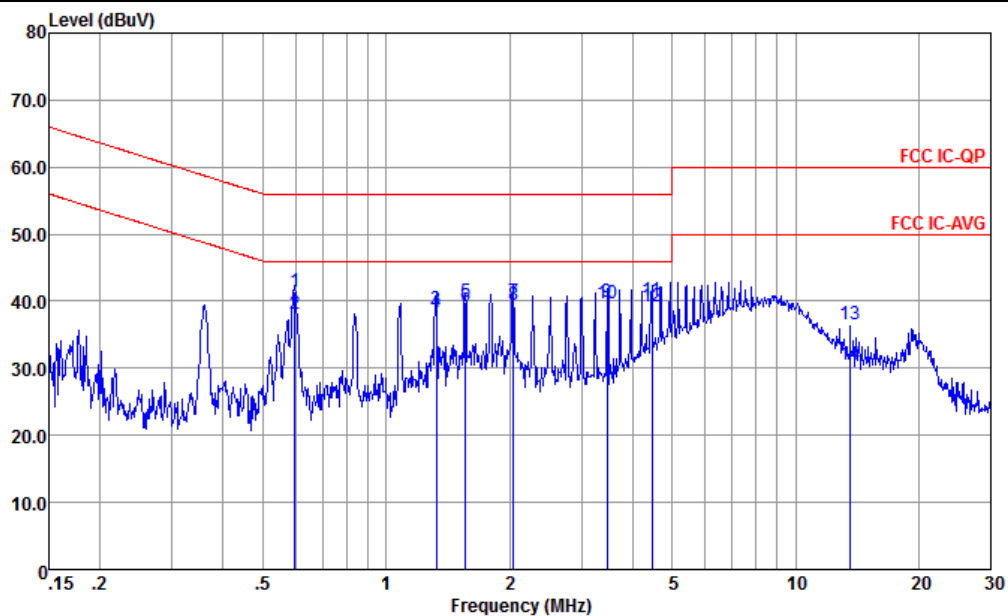


Site : CO01-KS
Condition : FCC IC-QP LISN-100334-L 2025 LINE
Project : (FC) 5N1310

	Freq	Level	Limit	Line	Level	Factor	Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.598	39.60	-16.40	56.00	19.50	9.59	10.51	QP
2	0.598	37.00	-9.00	46.00	16.90	9.59	10.51	Average
3	1.560	39.65	-16.35	56.00	19.50	9.60	10.55	QP
4	1.560	38.65	-7.35	46.00	18.50	9.60	10.55	Average
5	1.800	39.94	-16.06	56.00	19.80	9.60	10.54	QP
6	1.800	39.64	-6.36	46.00	19.50	9.60	10.54	Average
7	2.044	38.04	-17.96	56.00	17.90	9.60	10.54	QP
8	2.044	36.94	-9.06	46.00	16.80	9.60	10.54	Average
9	4.202	40.63	-15.37	56.00	20.50	9.62	10.51	QP
10	4.202	39.73	-6.27	46.00	19.60	9.62	10.51	Average
11	4.454	40.94	-15.06	56.00	20.80	9.63	10.51	QP
12 *	4.454	40.04	-5.96	46.00	19.90	9.63	10.51	Average
13	13.560	34.93	-25.07	60.00	14.50	9.86	10.57	QP
14	13.560	28.63	-21.37	50.00	8.20	9.86	10.57	Average



Test Engineer :	Amos	Temperature :	25.3~26.2°C
		Relative Humidity :	38~40%
Test Voltage :	120Vac / 60Hz	Phase :	Neutral
Remark :	All emissions not reported here are more than 10 dB below the prescribed limit.		



Site : CO01-KS
Condition : FCC IC-QP LISM-100334-N 2025 NEUTRAL

	Freq	Level	Over	Limit	Read	LISM	Cable	Remark
	MHz	dBuV	Limit	Line	Level	Factor	Loss	
			dB	dBuV	dBuV	dB	dB	
1	0.598	41.49	-14.51	56.00	21.20	9.78	10.51	QP
2	0.598	38.09	-7.91	46.00	17.80	9.78	10.51	Average
3	1.324	38.77	-17.23	56.00	18.30	9.91	10.56	QP
4	1.324	38.37	-7.63	46.00	17.90	9.91	10.56	Average
5	1.560	39.92	-16.08	56.00	19.50	9.87	10.55	QP
6	1.560	39.32	-6.68	46.00	18.90	9.87	10.55	Average
7	2.044	39.95	-16.05	56.00	19.60	9.81	10.54	QP
8	2.044	39.45	-6.55	46.00	19.10	9.81	10.54	Average
9	3.472	39.87	-16.13	56.00	19.70	9.65	10.52	QP
10 *	3.472	39.57	-6.43	46.00	19.40	9.65	10.52	Average
11	4.454	40.22	-15.78	56.00	20.09	9.62	10.51	QP
12	4.454	39.22	-6.78	46.00	19.09	9.62	10.51	Average
13	13.560	36.50	-23.50	60.00	16.20	9.73	10.57	QP
14	13.560	30.50	-19.50	50.00	10.20	9.73	10.57	Average

Note:

- Level(dBuV) = Read Level(dBuV) + LISM Factor(dB) + Cable Loss(dB)
- Over Limit(dB) = Level(dBuV) – Limit Line(dBuV)

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

3.2.2. Measuring Instruments

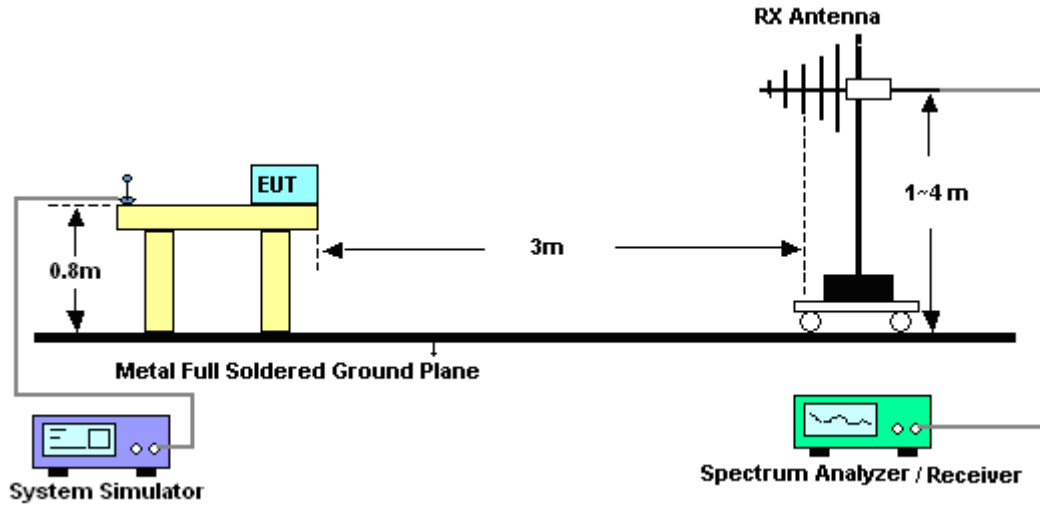
The measuring equipment is listed in the section 4 of this test report.

3.2.3. Test Procedures

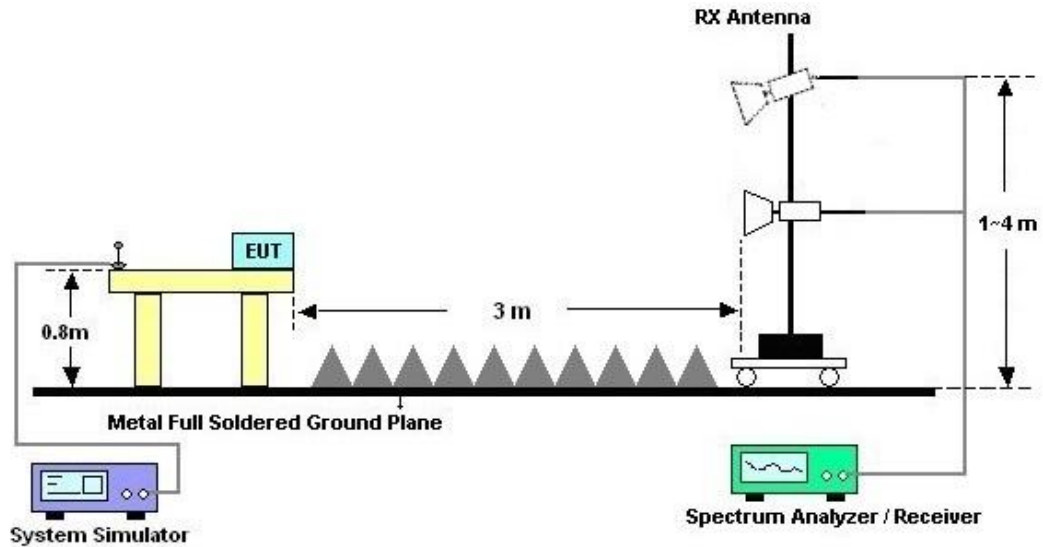
1. The EUT was placed on a turntable with 0.8 meter above ground.
2. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
3. The table was rotated 360 degrees to determine the position of the highest radiation.
4. The antenna 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 (dBμV/m) = 20 log Emission level (μV/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.

3.2.4. Test Setup of Radiated Emission

For radiated emissions from 30MHz to 1GHz

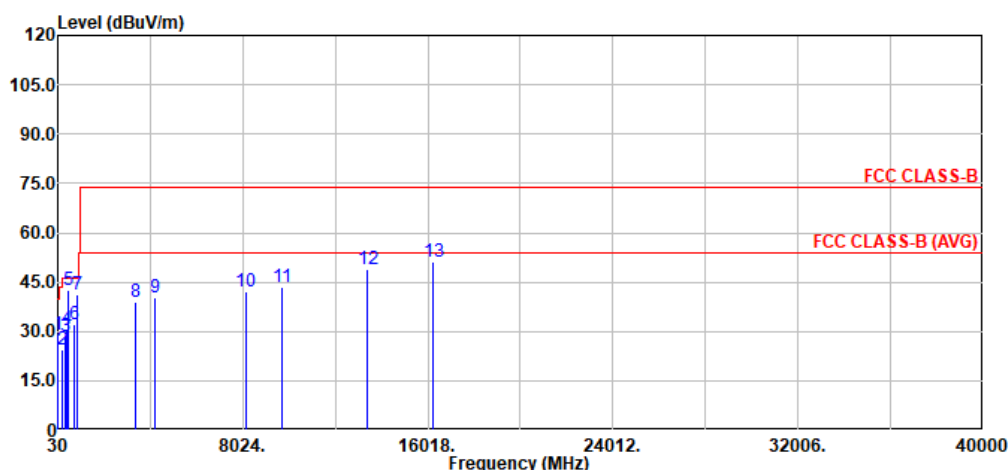


For radiated emissions above 1GHz



3.2.5. Test Result of Radiated Emission

Test Engineer :	Levi Zhuo	Temperature :	21~22°C
		Relative Humidity :	41~42%
Test Distance :	3m	Polarization :	Horizontal
Remark :	#7 is system simulator signal which can be ignored.		

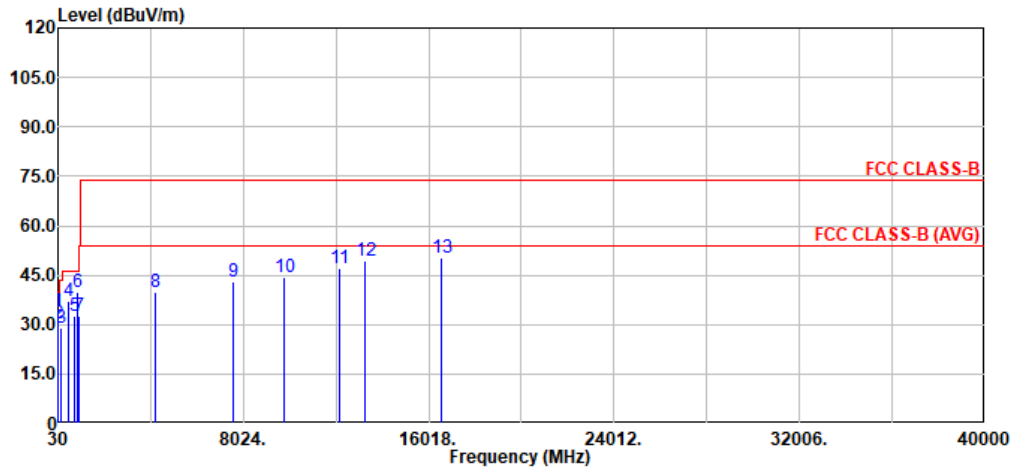


Site : 03CH07-K5
Condition: FCC CLASS-B 3m 3117-00240132 Horizontal

	Freq	Level	Limit	Over	Read	Ant	Cable	Preamp	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg	
1	58.37	29.03	40.00	-10.97	48.15	12.08	0.86	32.06	---	---	Peak
2	196.60	24.53	43.50	-18.97	39.79	14.84	1.97	32.07	---	---	Peak
3	335.79	28.53	46.00	-17.47	38.21	19.85	2.58	32.11	---	---	Peak
4	398.84	30.84	46.00	-15.16	38.29	21.86	2.83	32.14	---	---	Peak
5	480.08	42.53	46.00	-3.47	48.07	23.60	3.09	32.23	100	215	QP
6	753.86	31.94	46.00	-14.06	31.93	28.32	3.87	32.18	---	---	Peak
7	869.05	41.01			39.00	29.41	4.17	31.57	---	---	Peak
8	3366.40	39.02	74.00	-34.98	63.01	33.00	8.41	65.40	---	---	Peak
9	4204.50	40.17	74.00	-33.83	61.98	34.92	9.27	66.00	---	---	Peak
10	8138.30	42.28	74.00	-31.72	60.31	36.80	13.18	68.01	---	---	Peak
11	9692.10	43.56	74.00	-30.44	59.69	37.18	14.77	68.08	---	---	Peak
12	13381.10	48.73	74.00	-25.27	55.98	39.50	17.84	64.59	---	---	Peak
13	16221.80	51.34	74.00	-22.66	56.81	41.32	19.61	66.40	---	---	Peak



Test Engineer :	Levi Zhuo	Temperature :	21~22°C
		Relative Humidity :	41~42%
Test Distance :	3m	Polarization :	Vertical
Remark :	#6 is system simulator signal which can be ignored.		



Site : 03CH07-KS
Condition: FCC CLASS-B 3m 3117-00240132 Vertical

	Freq	Level	Limit	Over	Read	Ant	Cable	Preamp	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg	
1	30.73	34.12	40.00	-5.88	41.17	24.54	0.48	32.07	---	---	Peak
2	57.89	30.47	40.00	-9.53	49.53	12.14	0.86	32.06	---	---	Peak
3	144.46	28.85	43.50	-14.65	41.92	17.29	1.67	32.03	---	---	Peak
4	480.08	37.36	46.00	-8.64	42.90	23.60	3.09	32.23	---	---	Peak
5	717.49	32.45	46.00	-13.55	33.80	27.16	3.78	32.29	---	---	Peak
6	869.05	39.76			37.75	29.41	4.17	31.57	---	---	Peak
7	950.53	32.59	46.00	-13.41	28.36	30.76	4.36	30.89	---	---	Peak
8	4202.80	39.76	74.00	-34.24	61.55	34.95	9.26	66.00	---	---	Peak
9	7594.30	42.82	74.00	-31.18	61.32	36.50	12.74	67.74	---	---	Peak
10	9772.00	44.34	74.00	-29.66	60.48	37.24	14.66	68.04	---	---	Peak
11	12140.10	47.18	74.00	-26.82	57.61	39.14	16.34	65.91	---	---	Peak
12	13255.30	49.24	74.00	-24.76	56.90	39.41	17.72	64.79	---	---	Peak
13	16592.40	50.31	74.00	-23.69	55.17	41.98	19.69	66.53	---	---	Peak

Note:

- Level(dBμV/m) = Read Level(dBμV) + Antenna Factor(dB/m) + Cable Loss(dB) - Preamp Factor(dB)
- Over Limit(dB) = Level(dBμV/m) – Limit Line(dBμV/m)



4. List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
MXE EMI Receiver	Keysight	N9038A	MY57290151	3Hz~8.4GHz	Jul. 02, 2025	Jan. 09, 2026	Jul. 01, 2026	Radiation (03CH07-KS)
EXA Spectrum Analyzer	Keysight	N9010A	MY55370528	10Hz~44G,MAX 30dB	Oct. 10, 2025	Jan. 09, 2026	Oct. 09, 2026	Radiation (03CH07-KS)
Active loop antenna	R&S	HFH2-Z2E	101125	9kHz~30MHz	Aug. 10, 2025	Jan. 09, 2026	Aug. 09, 2026	Radiation (03CH07-KS)
Bilog Antenna	TESEQ	CBL 6111D	49921	30MHz~1GHz	Mar. 24, 2025	Jan. 09, 2026	Mar 23 2026	Radiation (03CH07-KS)
Double Ridge Horn Antenna	ETS-Lindgren	3117	00240132	1GHz~18GHz	Jun. 26, 2025	Jan. 09, 2026	Jun. 25, 2026	Radiation (03CH07-KS)
high gain Amplifier	EM	EM01G18GA	060839	1Ghz~18Ghz	Sep. 19, 2025	Jan. 09, 2026	Sep. 18, 2026	Radiation (03CH07-KS)
SHF-EHF Horn	Com-power	AH-840	101115	18GHz~40GHz	Oct. 18, 2025	Jan. 09, 2026	Oct. 17, 2026	Radiation (03CH07-KS)
Amplifier	SONOMA	310N	380826	9KHz~1GHz	Jul. 02, 2025	Jan. 09, 2026	Jul. 01, 2026	Radiation (03CH07-KS)
Amplifier	EM	EM18G40GA	060737	18~40GHz	Dec. 26, 2025	Jan. 09, 2026	Dec. 25, 2026	Radiation (03CH07-KS)
Amplifier	Keysight	83017A	MY57280106	0.5GHz~26.5GHz	Apr. 18, 2025	Jan. 09, 2026	Apr. 17, 2026	Radiation (03CH07-KS)
AC Power Source	Chroma	61601	616010002473	N/A	NCR	Jan. 09, 2026	NCR	Radiation (03CH07-KS)
Turn Table	EM	EM 1000-T	N/A	0~360 degree	NCR	Jan. 09, 2026	NCR	Radiation (03CH07-KS)
Antenna Mast	EM	EM 1000-A	N/A	1 m~4 m	NCR	Jan. 09, 2026	NCR	Radiation (03CH07-KS)
EMI Receiver	R&S	ESC17	100768	9kHz~7GHz;	Apr 16, 2025	Jan. 15, 2026	Apr 15, 2026	Conduction (CO01-KS)
AC LISN (for auxiliary equipment)	MessTec	AN3016	060103	9kHz~30MHz	Jul. 03, 2025	Jan. 15, 2026	Jul. 02, 2026	Conduction (CO01-KS)
AC LISN	MessTec	AN3016	060105	9kHz~30MHz	Dec. 24, 2025	Jan. 15, 2026	Dec. 23, 2026	Conduction (CO01-KS)
AC Power Source	Ouhan	APW-130NYT	202201040060	AC 0V~300V,45Hz~1000Hz	Apr. 16, 2025	Jan. 15, 2026	Apr. 15, 2026	Conduction (CO01-KS)

NCR: No Calibration Required

5. Measurement Uncertainty

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

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2U_c(y)$)	2.84 dB
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Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2U_c(y)$)	6.20 dB
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Uncertainty of Radiated Emission Measurement (1000 MHz ~ 18000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2U_c(y)$)	4.88 dB
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Uncertainty of Radiated Emission Measurement (18000 MHz ~ 40000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2U_c(y)$)	5.34 dB
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