



FCC Test Report

APPLICANT : Datalogic S.r.l.
EQUIPMENT : MOBILE COMPUTER/BARCODE READER
BRAND NAME : DATALOGIC
MODEL NAME : CMFSNR
FCC ID : U4G-CMFSNR
STANDARD : 47 CFR Part 15 Subpart B
CLASSIFICATION : Certification
TEST DATE(S) : Feb. 28, 2026 ~ Mar. 21, 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**



TABLE OF CONTENTS

REVISION HISTORY	3
SUMMARY OF TEST RESULT	4
1. GENERAL DESCRIPTION	5
1.1. Applicant.....	5
1.2. Manufacturer	5
1.3. Product Feature of Equipment Under Test	5
1.4. Product Specification of Equipment Under Test	6
1.5. Modification of EUT	8
1.6. Test Location	8
1.7. Test Software	8
1.8. Applicable Standards	9
2. TEST CONFIGURATION OF EQUIPMENT UNDER TEST	10
2.1. Test Mode	10
2.2. Connection Diagram of Test System	14
2.3. Support Unit used in test configuration and system.....	14
2.4. EUT Operation Test Setup	15
3. TEST RESULT	16
3.1. Test of AC Conducted Emission Measurement	16
3.2. Test of Radiated Emission Measurement	20
4. LIST OF MEASURING EQUIPMENT	25
5. MEASUREMENT UNCERTAINTY	26
APPENDIX A. SETUP PHOTOGRAPHS	



REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FC5O1606	Rev. 01	Initial issue of report	Apr. 13, 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 3.47 dB at 15.552 MHz
3.2	15.109	Radiated Emission	< 15.109 limits	PASS	Under limit 3.04 dB at 600.00 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

Datalogic S.r.l.

Via San Vitalino 13,CALDERARA DI RENO, BO 40012 Italy

1.2. Manufacturer

Datalogic S.r.l.

Via San Vitalino 13,CALDERARA DI RENO, BO 40012 Italy

1.3. Product Feature of Equipment Under Test

Product Feature	
Equipment	MOBILE COMPUTER/BARCODE READER
Brand Name	DATALOGIC
Model Name	CMFSNR
FCC ID	U4G-CMFSNR
EUT supports Radios application	WCDMA/LTE/5G NR WLAN 2.4GHz 802.11b/g/n HT20/HT40 WLAN 2.4GHz 802.11ac VHT20/VHT40 WLAN 2.4GHz 802.11ax HE20/HE40 WLAN 5GHz 802.11a/n HT20/HT40 WLAN 5GHz 802.11ac VHT20/VHT40/VHT80/VHT160 WLAN 5GHz 802.11ax HE20/HE40/HE80/HE160 WLAN 6GHz 802.11a/ax HE20/HE40/HE80/HE160 Bluetooth BR/EDR/LE GNSS/NFC/WPT
IMEI / SN Code	Conduction: 354106690009839/354106690009847 for Sample 1 354106690007718/354106690007726 for Sample 2 354106690007874/354106690007882 for Sample 3 354106690011678/354106690011686 for Sample 4 354106690007510/354106690007528 for Sample 5 354106690007254/354106690007262 for Sample 6 Radiation: MEHBG06000926 for Sample 1 MEHBG06001053 for Sample 2 MEHBG06001293 for Sample 3 MEHBG0106001356 for Sample 4 MEHBG0106001334 for Sample 5 MEHBG0106001414 for Sample 6
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 six types of EUT, for the differences please refer the product equality declaration exhibit submitted. According to the difference, we choose sample 3 to full test and the sample 1/2/4/5/6 is verified for the difference.

1.4. Product Specification of Equipment Under Test

Standards-related Product Specification	
Tx Frequency	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 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 ~ 3600 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 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 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/ac/ax: 2400 MHz ~ 2483.5 MHz 802.11a/n/ac/ax: 5150 MHz ~ 5250 MHz; 5250 MHz ~ 5350 MHz; 5470 MHz ~ 5725 MHz 5725 MHz ~ 5850 MHz 802.11a/ax: 5925 MHz ~ 7125 MHz Bluetooth: 2400 MHz ~ 2483.5 MHz



	NFC : 13.56 MHz
Rx Frequency	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 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 ~ 3600 MHz LTE Band 43 : 3600 MHz ~ 3700 MHz LTE Band 48 : 3550 MHz ~ 3700 MHz LTE Band 66 : 2110 MHz~ 2180 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 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 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/ac/ax: 2400 MHz ~ 2483.5 MHz 802.11a/n/ac/ax: 5150 MHz ~ 5250 MHz; 5250 MHz ~ 5350 MHz; 5470 MHz ~ 5725 MHz 5725 MHz ~ 5850 MHz 802.11a/ax: 5925 MHz ~ 7125 MHz Bluetooth: 2400 MHz ~ 2483.5 MHz NFC : 13.56 MHz GNSS : 1559 MHz ~ 1610 MHz, 1164 MHz ~ 1215 MHz WPT: 110kHz~ 205 kHz
Antenna Type	WWAN : LDS Antenna WLAN : LDS Antenna Bluetooth : LDS Antenna GNSS: LDS Antenna NFC: FPC Antenna WPT: Coil Antenna

Type of Modulation	WCDMA : BPSK HSPA : QPSK HSPA+ : 16QAM 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) Bluetooth LE : GFSK Bluetooth (1Mbps) : GFSK Bluetooth (2Mbps) : $\pi/4$ -DQPSK Bluetooth (3Mbps) : 8-DPSK GNSS : BPSK NFC: ASK WPT: ASK
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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.

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: PHONE(WCDMA BAND V) LINK + BT LINK + WIFI24 LINK + MIC + RCAM + BATLC + SIM 1 + CHGUSB + CHGAPWR1 + GLO for Sample 3
	Mode 2: PHONE(LTE Band 12)LINK + BT LINK + WIFI5 LINK + DISPLAY+ RUN COLOR BAR + CHGAPWR1+ CHGUSB + BATLC+ E-SIM + GLO for Sample 3
	Mode 3: PHONE(LTE Band 17)IDL+ BT LINK + WIFI5 IDL+ DISPLAY + RUN COLOR BAR + BTHS + BATLC + E-SIM + CHGUSB+ CHGAPWR1 + GLO for Sample 3
	Mode 4: PHONE(LTE Band 26) LINK + BT LINK + WIFI5 LINK + DISPLAY + RUN COLOR BAR + SPEAKER+ BATLC + USBDATA + EMCC TO NB + SIM + GLO for Sample 3
	Mode 5: PHONE(N13)IDL+ BT LINK + WIFI6 LINK + SCANA + GPSIDL + BATLC + USBDATA + NB TO EMCC + SIM + GLO for Sample 3
	Mode 6: PHONE(N71) IDL + BTIDL + WIDL + SCANA + GNSSONR + BATLC + USBDATE + SD TO NB + SIM + GLO for Sample 3
	Mode 7: BT LINK + WIFI5 LINK + PHONE(N12) IDL + NFCIDL + USBDATE + NB TO SD + GLO for Sample 3
	Mode 8: BT LINK + WIFI5 LINK + PHONE(N5) IDL+ NFC RADING + CHGWLC-1+ GLO for Sample 3
	Mode 9: BT LINK + WIFI5 LINK + PHONE(N5)IDL+ NFC RADING + CHGWLC-1+ (REMOVE GLO) for Sample 3
	Mode 10 : BT LINK + WIFI5 LINK + PHONE(N5)IDL+ ETH PORT1 (LOAD) + ETH PORT2 (MAX RATE) + CHGUSB + CHGPP1 CRADLE + SCANA + KEYBOARD for Sample 1
	Mode 11 : BT LINK + WIFI5 LINK + PHONE(N5) IDL+ ETH PORT1 (MAX RATE) + ETH PORT2 (LOAD) + CHGUSB + CHGPP1 CRADLE + SCANA + KEYBOARD for Sample 1
	Mode 12 : BT LINK + WIFI5 LINK + PHONE(N5) IDL+ CHGUSB+CHGPP1 CRADLE + SCANX for Sample 4
	Mode 13 : BT LINK + WIFI5 LINK + PHONE(N5)IDL + CHGUSB + CHGPP1 CRADLE + SCANA + KEYBOARD for Sample 5
	Mode 14 : BT LINK + WIFI5 LINK + PHONE(N5) IDL+ CHGUSB + CHGPP1 CRADLE+ KEYBOARD for Sample 6



AC Conducted Emission	Mode 15 : BT LINK + WIFI5 LINK + PHONE(N5)IDL+ SCANA + CHGWLC-1+ GLO for Sample 2 Mode 16 : BT LINK + WIFI5 LINK + PHONE(N5)IDL + CHGPP2 CRADLE + CHGAPWR3 + BATLC for Sample 3 Mode 17 : BT LINK + WIFI5 LINK + PHONE(N5)IDL+CHGAPWR 2 + CHGWLC-2 for Sample 3 Mode 18 : BT LINK + WIFI5 LINK + PHONE(N5) IDL+ CHGPP2 CRADLE + CHGAPWR2 + BATLC +USBDATA + EMCC TO NB for Sample 3 Mode 19 : BT LINK + WIFI5 LINK + PHONE(N5) IDL + CHGPP2 CRADLE + CHGAPWR2 + BATLC + USBDATA + NB TO EMCC for Sample 3 Mode 20 : BT LINK + WIFI5 LINK + PHONE(N5) IDL+ CHGPP2 CRADLE + CHGAPWR2 + BATLC + USBDATA + NB TO SD for Sample 3 Mode 21 : BT LINK + WIFI5 LINK + PHONE(N5) IDL+ CHGPP2 CRADLE + CHGAPWR2 + BATLC + USBDATA + SD TO NB for Sample 3
Radiated Emissions	Mode 1: PHONE(WCDMA BAND V) LINK + BT LINK + WIFI24 LINK + MIC + RCAM + BATLC+ SIM 1+ CHGUSB + CHGAPWR1+ GLO for Sample 3 Mode 2: PHONE(LTE Band 12) LINK + BT LINK + WIFI5 LINK +DISPLAY+ RUN COLOR BAR + EARPHONE + BATLC + E-SIM + GLO for Sample 3 Mode 3: PHONE(LTE Band 17)IDL+ BT LINK + WIFI5 IDL + DISPLAY + RUN COLOR BAR + BTHS + BATLC + E-SIM + CHGUSB + CHGAPWR1 + GLO for Sample 3 Mode 4: PHONE(LTE Band 26)LINK + BT LINK + WIFI5 LINK + DISPLAY + RUN COLOR BAR + SPEAKER + BATLC + USBDATA + EMCC TO NB + SIM + GLO for Sample 3 Mode 5: PHONE(N13)IDL+ BT LINK + WIFI6 LINK + SCANA + GPSIDL + BATLC + USBDATA + NB TO EMCC + SIM + GLO for Sample 3 Mode 6: PHONE(N71) IDL + BTIDL + WIDL + SCANA + GNSSONR + BATLC + USBDATA + SD TO NB + SIM+ GLO + IRDA for Sample 3 Mode 7: PHONE(N12)IDL+BT LINK + WIFI5 LINK + NFCIDL + BATLC + E-SIM + CHGUSB + USBDATA + NB TO SD + GLO for Sample 3 Mode 8: PHONE(N5)IDL+ NFC RADING + CHGWLC-1 + GLO for Sample 3 Mode 9: PHONE(N12)IDL+ BT LINK + WIFI5 LINK + NFCIDL + BATLC + E-SIM + CHGUSB+USBDATA + NB TO SD + (REMOVE GLO) for Sample 3 Mode 10 : STAND ALONE MODE for Sample 3 Mode 11 : PHONE(N12)IDL+BT LINK + WIFI5 LINK + NFCIDL+BATLC + E-SIM + ETH PORT1(LOAD)+ ETH PORT2(MAX RATE)+ CHGUSB + CHGPP1 CRADLE + SCANA + KEYBOARD for Sample 1 Mode 12 : PHONE(N12)IDL+BT LINK + WIFI5 LINK + NFCIDL+BATLC + E-SIM+ETH PORT1 (MAX RATE) + ETH PORT2 (LOAD) + CHGUSB+CHGPP1 CRADLE + SCANA + KEYBOARD for Sample 1 Mode 13 : PHONE(N12)IDL+BT LINK + WIFI5 LINK + NFCIDL + BATLC + E-SIM + ETH PORT1(LOAD)+ ETH PORT2(MAX RATE)+ CHGUSB+CHGPP1 CRADLE + SCANA + KEYBOARD for Sample 4

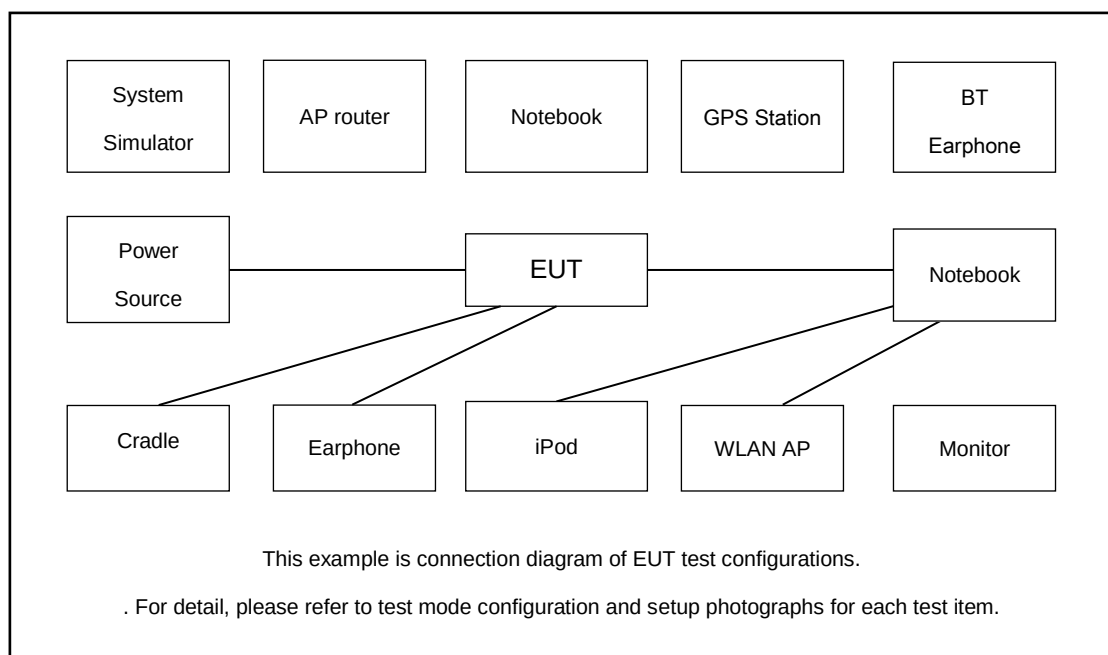
Radiated Emissions	Mode 14 : PHONE(N12)IDL+BT LINK + WIFI5 LINK + NFCIDL+BATLC + E-SIM+ETH PORT1(LOAD) + ETH PORT2(MAX RATE)+ CHGUSB + CHGPP1 CRADLE + CHGUSB + CHGPP1 CRADLE + SCANX for Sample 5 Mode 15 : PHONE(N12) IDL+BT LINK + WIFI5 LINK + NFCIDL+BATLC + E-SIM+ETH PORT1(LOAD) + ETH PORT2(MAX RATE)+ CHGUSB + CHGPP1 CRADLE + SCANA + KEYBOARD for Sample 6 Mode 16 : PHONE(N12)IDL+ BT LINK + WIFI5 LINK + NFCIDL+BATLC + E-SIM + CHGUSB+USBDATA + NB TO SD + SCANAfor Sample 2 Mode 17 : PHONE(N12)IDL + BT LINK + WIFI5 LINK + NFCIDL + BATLC + E-SIM + CHGUSB+USBDATA+ NB TO SD +(REMOVE GLO)+ Protective Case for Sample 3 Mode 18 : PHONE(N12)IDL+BT LINK + WIFI5 LINK + NFCIDL + BATLC + E-SIM + CHGPP2 CRADLE + CHGAPWR3 + BATLC for Sample 6 Mode 19 : PHONE(N12)IDL+ BT LINK + WIFI5 LINK + NFCIDL + BATLC + E-SIM + CHGAPWR3) + CHGWLC-2 for Sample 3 Mode 20 : PHONE(N12)IDL+BT LINK + WIFI5 LINK + NFCIDL+BATLC + E-SIM + CHGPP2 CRADLE + CHGAPWR3 + BATLC + USBDATA + EMCC TO NB for Sample 6 Mode 21 : PHONE(N12)IDL+BT LINK + WIFI5 LINK + NFCIDL + BATLC + E-SIM + CHGPP2 CRADLE + CHGAPWR3 + BATLC + USBDATA + NB TO EMCC for Sample 6 Mode 22 : PHONE(N12)IDL+BT LINK + WIFI5 LINK + NFCIDL + BATLC + E-SIM + CHGPP2 CRADLE + CHGAPWR3 + BATLC + USBDATA + NB TO SD for Sample 6 Mode 23 : PHONE(N12)IDL+BT LINK + WIFI5 LINK + NFCIDL+BATLC + E-SIM+ CHGPP2 CRADLE+ CHGAPWR3 + BATLC + USBDATA + SD TO NB for Sample 6
Remark: 1. 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 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 for WCDMA Band V/LTE Band 12/17/26 and 5G NR n5/n12/n13/n71/, the worst channel was recorded in this report.	



Glossary of Terms:

Abbreviations by applicant	Full form	Abbreviations in the test mode
WF24IDL	wifi 2,4 IDLE	WIFI24 IDL
WF5IDL	wifi 5 IDLE	WIFI5 IDL
WF6IDL	wifi 6 IDLE	WIFI6 IDL
BTIDL	Bluetooth IDLE	BTIDL
LTETX	LTE on - transmission /call	LTE Link
LTEIDL	LTE IDLE	LTE IDL
GNSSONR	GNSS On - Reception	GNSSONR-GNSS
RCAM	REAR camera on	RCAM-Camera
FCAM	front camera on	FCAM-Camera
DISPL	display	DISPLAY-Color Bar/Run Color Bar
PHONE	call is working	PHONE
USBDATA	usb. Exchange data via usb cable	USBDATE
SPEAK	speacker	Speaker
NFC	reading cards	NFCIDL/NFC RADING
WIFI24	wifi 2,4 is working. Connection	WIFI24 Link
WIFI5	wifi 5 is working- connection	WIFI5Link
WIFI6	wifi 6e is working- connection	WIFI6 Link
KEYS	keys	KEYBOARD
ETH	eth connection	ETH PORT(MAX RATE)
CHGWLC	charge via wlc (Accessory)	CHGWLC
CHGPPN	charge via pogo pin (Accessory)	CHGPP Cradle-Pogo
CHGUSB	charge via USB (for example using a PC)	CHGUSB-USB
SCAN	device is scanning/able to scan	SCANX /SCANX
CHGAPWR	charging via adapter	CHGAPWR
GLO	glove mode	GLO
BTIDL	BT in idle state	BTIDL
GPSIDL	GSP in idle state	GPSIDL-GNSS
SKU 1	MOBILE COMPUTER/BARCODE READER	Sample 1
SKU 2	MOBILE COMPUTER/BARCODE READER	Sample 2
SKU 3	MOBILE COMPUTER/BARCODE READER	Sample 3
CHGAPWR1 (91ACC0048)	adapter	CHGAPWR1
CHGAPWR2 (EA10951C-120)	adapter	CHGAPWR2
CHGAPWR3 (EA10681U-120)	adapter	CHGAPWR3
CHGWLC-1(94A150108)	SKORPIO X5 3 SLOT DOCK WIRELESS CHARGING	CHGWLC-1
CHGWLC-2(94A150106)	SKORPIO X5 SINGLE DOCK WIRELESS CHARGING	CHGWLC-2
CHGPP1 CRADLE (94A150110)	SKORPIO X5 3 SLOT DOCK WITH CONTACTS	CHGPP1 CRADLE
CHGPP2 CRADLE (94A150107)	SKORPIO X5 SINGLE DOCK WITH CONTACTS	CHGPP2 CRADLE

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.	Bluetooth Earphone	Lenovo	thinkplus-BH3	N/A	N/A	N/A
2.	LTE Base Station	Anritus	MT8821C	N/A	N/A	Unshielded,1.8m
3.	5GNR Base Station	Anritus	MT8000A	N/A	N/A	Unshielded,1.8m
4.	Notebook	Lenovo	V130-15IKB005	N/A	N/A	shielded cable DC O/P 1.8m Unshielded AC I/P cable 1.8m
5.	WLAN AP	D-link	DIR-655	KA21R655B1	N/A	Unshielded,1.8m
6.	Vector Signal Generator	R&S	SMBV100A	258305	N/A	N/A
7.	SD Card	Kingston	8GB	N/A	N/A	N/A
8.	NFC Card	N/A	N/A	N/A	N/A	N/A
9.	Hard DISK	WD	C6B	N/A	N/A	N/A
10.	Wireless charger cradle	N/A	CHGWLC-1/ CHGWLC-2	N/A	N/A	N/A

2.4. EUT Operation Test Setup

The EUT was in 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 GNSS function to make the EUT receive continuous signals from GNSS station.
3. Turn on NFC 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.

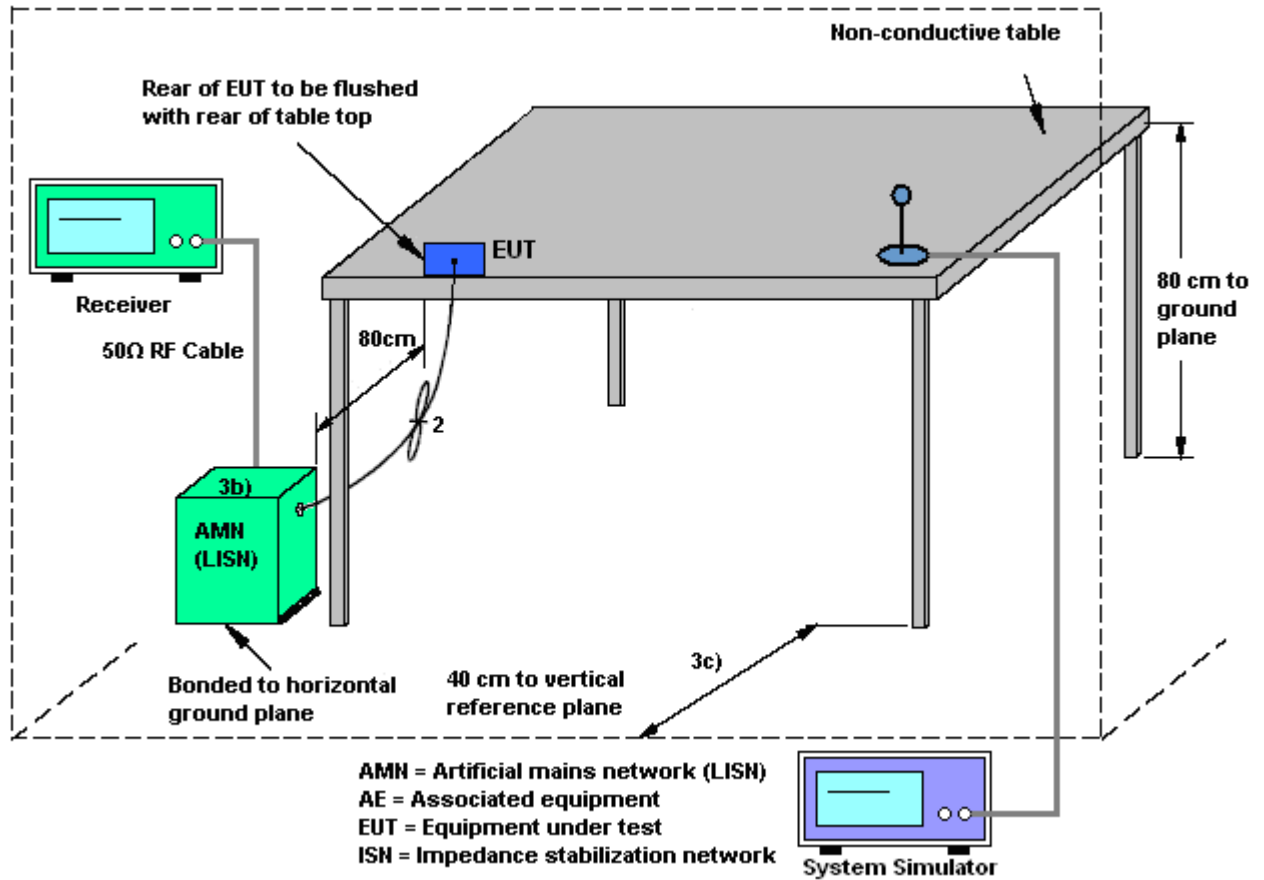
3.1.2 Measuring Instruments

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

3.1.3 Test Procedure

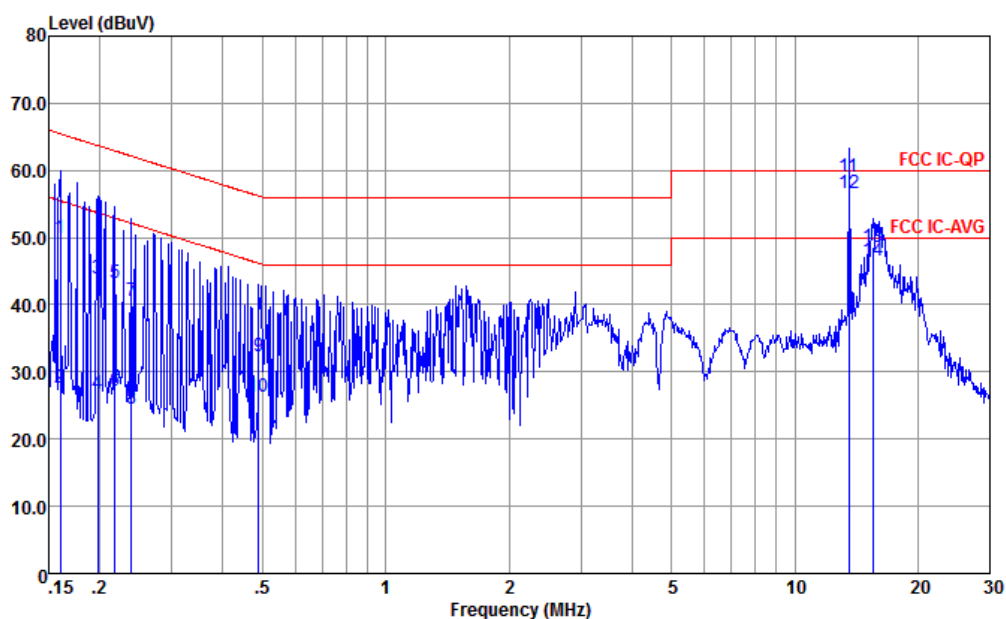
1. The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least 80 centimeters from any other grounded conducting surface.
2. Connect EUT to the power mains through a line impedance stabilization network (LISN).
3. All the support units are connecting to the other LISN.
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 Zhang	Temperature :	24.2~25.6°C
		Relative Humidity :	37~39%
Test Voltage :	120Vac / 60Hz	Phase :	Line
Remark :	13.56MHz is NFC RF signal which can be ignored.		

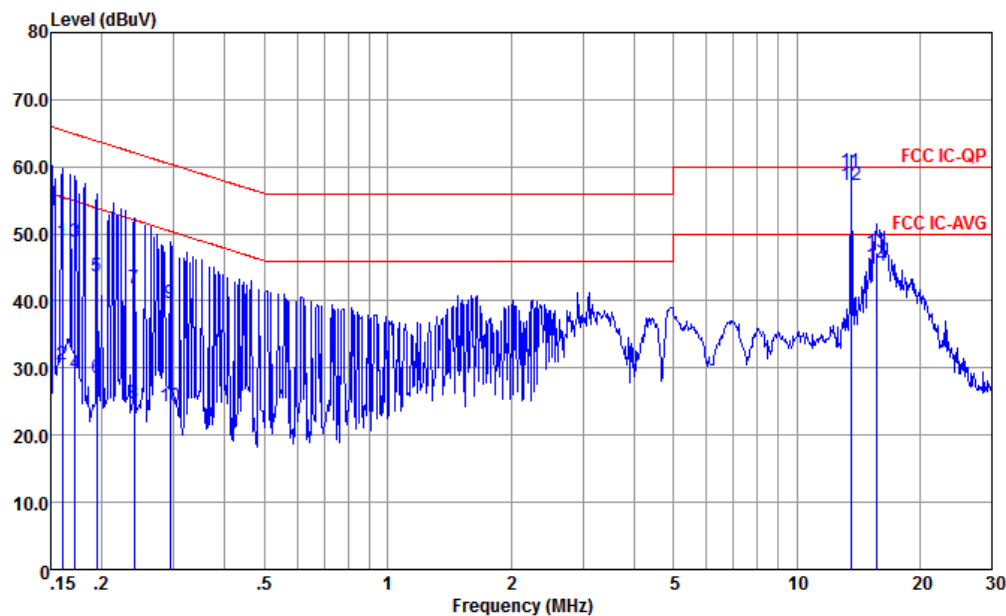


Site : CO01-KS
Condition : FCC IC-QP LISN-100334-L 2025 LINE

	Freq	Level	Over	Limit	Read	LISN	Cable	Remark
	MHz	dBuV	Limit	Line	Level	Factor	Loss	
			dB	dBuV	dBuV	dB	dB	
1	0.160	49.82	-15.65	65.47	29.80	9.55	10.47	QP
2	0.160	27.52	-27.95	55.47	7.50	9.55	10.47	Average
3	0.198	43.93	-19.78	63.71	23.90	9.55	10.48	QP
4	0.198	26.63	-27.08	53.71	6.60	9.55	10.48	Average
5	0.217	43.26	-19.66	62.92	23.20	9.58	10.48	QP
6	0.217	27.26	-25.66	52.92	7.20	9.58	10.48	Average
7	0.239	40.60	-21.53	62.13	20.51	9.61	10.48	QP
8	0.239	24.60	-27.53	52.13	4.51	9.61	10.48	Average
9	0.489	32.30	-23.89	56.19	12.20	9.59	10.51	QP
10	0.489	26.30	-19.89	46.19	6.20	9.59	10.51	Average
11	13.560	59.03			38.60	9.86	10.57	QP
12 *	13.560	56.53			36.10	9.86	10.57	Average
13	15.552	48.53	-11.47	60.00	28.10	9.86	10.57	QP
14	15.552	46.53	-3.47	50.00	26.10	9.86	10.57	Average



Test Engineer :	Amos Zhang	Temperature :	24.2~25.6°C
		Relative Humidity :	37~39%
Test Voltage :	120Vac / 60Hz	Phase :	Neutral
Remark :	13.56MHz is NFC RF signal which can be ignored.		



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

	Freq	Level	Over	Limit	Read	LISN	Cable	Remark
	MHz	dBuV	Limit	Line	Level	Factor	Loss	
			dB	dBuV	dBuV	dB	dB	
1	0.160	48.82	-16.65	65.47	28.80	9.55	10.47	QP
2	0.160	30.52	-24.95	55.47	10.50	9.55	10.47	Average
3	0.172	48.82	-16.04	64.86	28.80	9.55	10.47	QP
4	0.172	29.22	-25.64	54.86	9.20	9.55	10.47	Average
5	0.194	43.67	-20.17	63.84	23.60	9.59	10.48	QP
6	0.194	28.67	-25.27	53.84	8.50	9.59	10.48	Average
7	0.240	41.93	-20.15	62.08	21.80	9.65	10.48	QP
8	0.240	24.63	-27.45	52.08	4.50	9.65	10.48	Average
9	0.294	39.60	-20.81	60.41	19.50	9.61	10.49	QP
10	0.294	24.40	-26.01	50.41	4.30	9.61	10.49	Average
11	13.560	59.20	--	--	38.90	9.73	10.57	QP
12 *	13.560	57.20	--	--	36.90	9.73	10.57	Average
13	15.635	47.22	-12.78	60.00	26.90	9.75	10.57	QP
14	15.635	45.22	-4.78	50.00	24.90	9.75	10.57	Average

Note:

- Level(dBμV) = Read Level(dBμV) + LISN Factor(dB) + Cable Loss(dB)
- Over Limit(dB) = Level(dBμV) – Limit Line(dBμV)

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

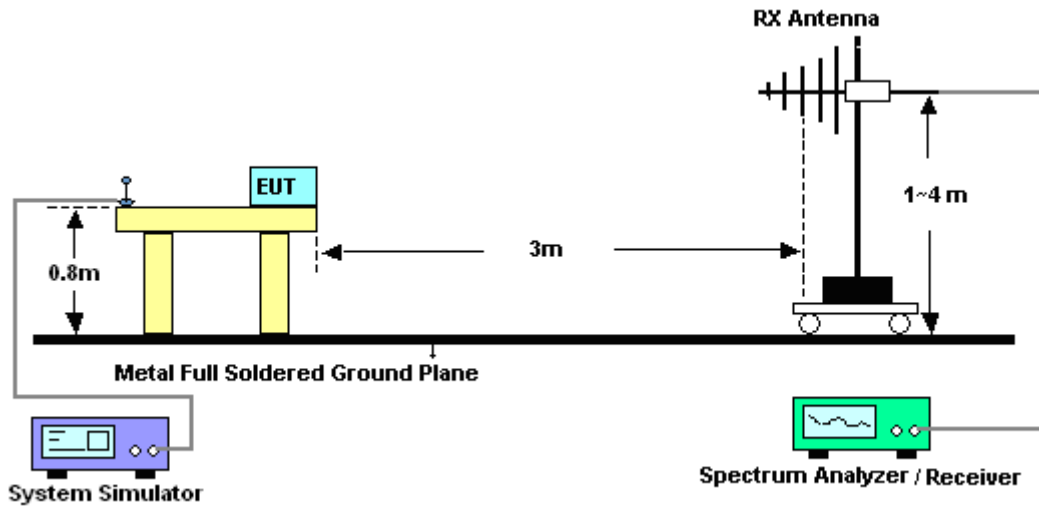
The measuring equipment is listed in the section 4 of this test report.

3.2.3. Test Procedures

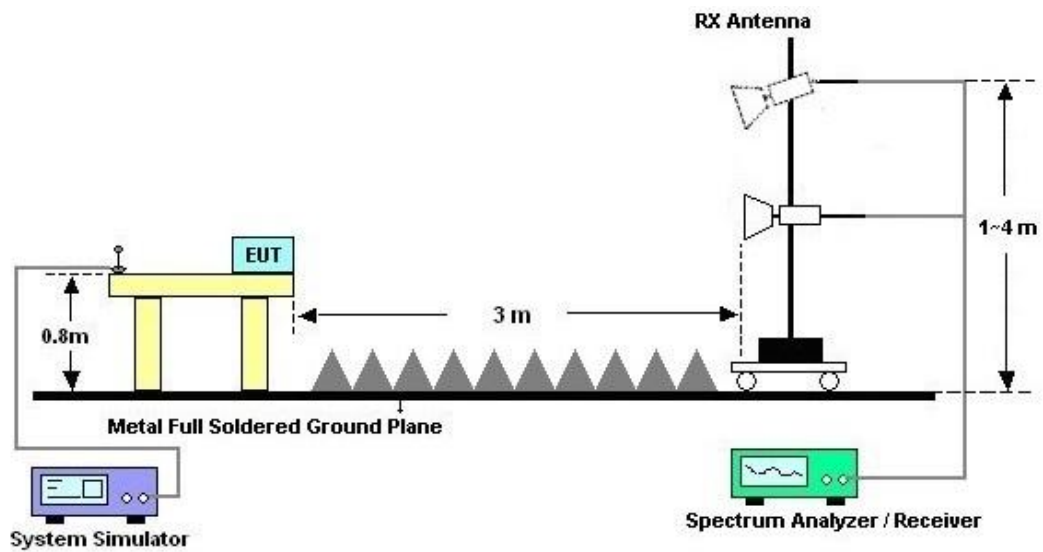
1. The EUT was placed on a turntable with 0.8 meter above ground.
2. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
3. The table was rotated 360 degrees to determine the position of the highest radiation.
4. The antenna 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

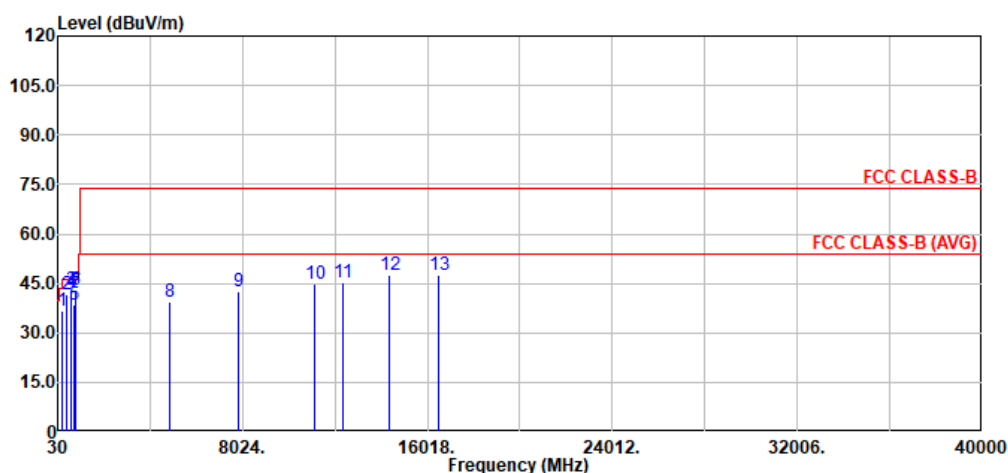


For radiated emissions above 1GHz



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 :	#5 is system simulator signal which can be ignored.		

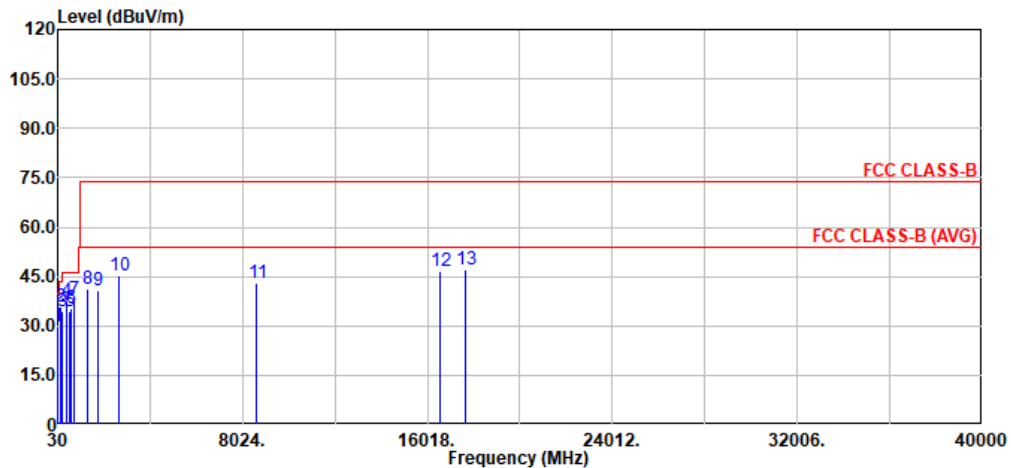


Site : 03CH07-KS
Condition: FCC CLASS-B 3m 3117-00240132 Horizontal

	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	201.57	36.80	43.50	-6.70	51.89	14.98	2.00	32.07	---	---	Peak
2	403.45	41.73	46.00	-4.27	48.99	22.04	2.84	32.14	---	---	Peak
3	600.00	42.96	46.00	-3.04	46.14	25.65	3.45	32.28	198	178	QP
4	605.33	42.41	46.00	-3.59	45.55	25.68	3.46	32.28	189	154	QP
5	737.49	38.64			38.93	28.12	3.83	32.24	---	---	Peak
6	799.82	42.96	46.00	-3.04	42.78	28.15	3.99	31.96	---	---	Peak
7	806.97	42.61	46.00	-3.39	42.54	27.98	4.01	31.92	100	29	QP
8	4856.88	39.61	74.00	-34.39	60.71	34.90	10.01	66.01	---	---	Peak
9	7825.50	42.49	74.00	-31.51	60.54	36.65	13.13	67.83	---	---	Peak
10	11151.13	44.65	74.00	-29.35	57.76	38.15	15.51	66.77	---	---	Peak
11	12370.88	45.17	74.00	-28.83	55.53	39.10	16.64	66.10	---	---	Peak
12	14368.38	47.72	74.00	-26.28	54.67	39.70	18.52	65.17	---	---	Peak
13	16472.13	47.44	74.00	-26.56	52.54	41.64	19.66	66.40	---	---	Peak



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



	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	53.28	29.94	40.00	-10.06	48.05	13.17	0.79	32.07	---	---	Peak
2	139.13	35.75	43.50	-7.75	48.68	17.46	1.64	32.03	---	---	Peak
3	201.57	34.31	43.50	-9.19	49.40	14.98	2.00	32.07	---	---	Peak
4	403.33	37.50	46.00	-8.50	44.76	22.04	2.84	32.14	---	---	Peak
5	561.08	34.32	46.00	-11.68	37.09	26.21	3.33	32.31	---	---	Peak
6	604.97	35.36	46.00	-10.64	38.51	25.67	3.46	32.28	---	---	Peak
7	737.49	38.22			38.51	28.12	3.83	32.24	---	---	Peak
8	1331.50	41.07	74.00	-32.93	71.84	29.05	5.18	65.00	---	---	Peak
9	1748.00	40.81	74.00	-33.19	69.76	29.59	5.99	64.53	---	---	Peak
10	2657.50	45.45	74.00	-28.55	70.32	32.92	7.41	65.20	---	---	Peak
11	8637.25	42.87	74.00	-31.13	61.00	36.50	13.62	68.25	---	---	Peak
12	16546.50	46.57	74.00	-27.43	51.52	41.84	19.68	66.47	---	---	Peak
13	17685.50	46.88	74.00	-27.12	52.23	41.69	20.01	67.05	---	---	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	Feb. 28, 2026	Jul. 01, 2026	Radiation (03CH07-KS)
EXA Spectrum Analyzer	Keysight	N9010A	MY55370528	10Hz-44G,MAX 30dB	Oct. 10, 2025	Feb. 28, 2026	Oct. 09, 2026	Radiation (03CH07-KS)
Active loop antenna	R&S	HFH2-Z2E	101125	9kHz~30MHz	Aug. 10, 2025	Feb. 28, 2026	Aug. 09, 2026	Radiation (03CH07-KS)
Bilog Antenna	TESEQ	CBL 6111D	49921	30MHz-1GHz	Mar. 24, 2025	Feb. 28, 2026	Mar. 23, 2026	Radiation (03CH07-KS)
Double Ridge Horn Antenna	ETS-Lindgren	3117	00240132	1GHz~18GHz	Jun. 26, 2025	Feb. 28, 2026	Jun. 25, 2026	Radiation (03CH07-KS)
high gain Amplifier	EM	EM01G18GA	060839	1Ghz-18Ghz	Sep. 19, 2025	Feb. 28, 2026	Sep. 18, 2026	Radiation (03CH07-KS)
SHF-EHF Horn	Com-power	AH-840	101115	18GHz~40GHz	Oct. 18, 2025	Feb. 28, 2026	Oct. 17, 2026	Radiation (03CH07-KS)
Amplifier	SONOMA	310N	380826	9KHz-1GHz	Jul. 02, 2025	Feb. 28, 2026	Jul. 01, 2026	Radiation (03CH07-KS)
Amplifier	EM	EM18G40GA	060737	18~40GHz	Dec. 26, 2025	Feb. 28, 2026	Dec. 25, 2026	Radiation (03CH07-KS)
Amplifier	Keysight	83017A	MY57280106	0.5GHz-26.5GHz	Apr. 18, 2025	Feb. 28, 2026	Apr. 17, 2026	Radiation (03CH07-KS)
AC Power Source	Chroma	61601	616010002473	N/A	NCR	Feb. 28, 2026	NCR	Radiation (03CH07-KS)
Turn Table	EM	EM 1000-T	N/A	0~360 degree	NCR	Feb. 28, 2026	NCR	Radiation (03CH07-KS)
Antenna Mast	EM	EM 1000-A	N/A	1 m~4 m	NCR	Feb. 28, 2026	NCR	Radiation (03CH07-KS)
EMI Receiver	R&S	ESC17	100768	9kHz~7GHz;	Apr 16, 2025	Mar. 21, 2026	Apr 15, 2026	Conduction (CO01-KS)
AC LISN (for auxiliary equipment)	MessTec	AN3016	060103	9kHz~30MHz	Jul. 03, 2025	Mar. 21, 2026	Jul. 02, 2026	Conduction (CO01-KS)
AC LISN	MessTec	AN3016	060105	9kHz~30MHz	Dec. 24, 2025	Mar. 21, 2026	Dec. 23, 2026	Conduction (CO01-KS)
AC Power Source	Ouhan	APW-130NYT	202201040060	AC 0V~300V,45Hz~1000Hz	Apr. 16, 2025	Mar. 21, 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% ($U = 2U_c(y)$)	6.2 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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