



FCC Test Report

APPLICANT : Motorola Mobility LLC
EQUIPMENT : Mobile Cellular Phone
BRAND NAME : Motorola
MODEL NAME : XT2535-15, XT2535-12
FCC ID : IHDT56AV8
STANDARD : 47 CFR Part 15 Subpart B
CLASSIFICATION : Certification
TEST DATE(S) : Jul. 02, 2025 ~ Jul. 23, 2025

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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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 3.73 dB at 0.159 MHz
3.2	15.109	Radiated Emission	< 15.109 limits	PASS	Under limit 9.00 dB at 139.37 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/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.



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	XT2535-15, XT2535-12
FCC ID	IHDT56AV8
EUT supports Radios application	GSM/WCDMA/LTE WLAN 2.4GHz 802.11b/g/n HT20/HT40 WLAN 5GHz 802.11a/n HT20/HT40 WLAN 5GHz 802.11ac VHT20/VHT40/VHT80 Bluetooth BR/EDR/LE NFC/GNSS/FM
IMEI Code	Conduction: 359734130002315/359734130002323 for Sample 1 355389550010811/355389550010829 for Sample 2 Radiation: 359734130002315 for Sample 1 355389550005795 for Sample 2
HW Version	DVT2
SW Version	VVOB35.52
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 between them could be referred to XT2535-15, XT2535-12_Operational Description of Product Equality Declaration which is exhibit separately. According to the differences, we chose sample 1 to perform full test and sample 2 to verify the worst cases of sample 1.



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 V: 824 MHz ~ 849 MHz LTE Band 2 : 1850 MHz ~ 1910 MHz LTE Band 5 : 824 MHz ~ 849 MHz LTE Band 7 : 2500 MHz ~ 2570 MHz LTE Band 26 : 814 MHz ~ 849 MHz LTE Band 38 : 2570 MHz ~ 2620 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 GSM1900: 1930 MHz ~ 1990 MHz WCDMA Band II: 1930 MHz ~ 1990 MHz WCDMA Band V: 869 MHz ~ 894 MHz LTE Band 2 : 1930 MHz ~ 1990 MHz LTE Band 5 : 869 MHz ~ 894 MHz LTE Band 7 : 2620 MHz ~ 2690 MHz LTE Band 26 : 859 MHz ~ 894 MHz LTE Band 38: 2570 MHz ~ 2620 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 : 88 MHz ~ 108 MHz
Antenna Type	WWAN : IFA Antenna WLAN : IFA Antenna Bluetooth : IFA Antenna GNSS: IFA 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 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) : $\pi/4$ -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. 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 03CH02-KS 10CH01-KS	CN1257	314309

1.7. Test Software

Item	Site	Manufacturer	Name	Version
1.	03CH02-KS	AUDIX	E3	6.2009-8-24a1
2.	10CH01-KS	AUDIX	E3	210616
3.	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(AOHAI)	Model Name	MC-101
AC Adapter 1(EU)	Brand Name	Motorola(AOHAI)	Model Name	MC-102
AC Adapter 1(UK)	Brand Name	Motorola(AOHAI)	Model Name	MC-103
AC Adapter 1(AR)	Brand Name	Motorola(AOHAI)	Model Name	MC-106
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(AR)	Brand Name	Motorola(Chenyang)	Model Name	MC-106
AC Adapter 2(BR)	Brand Name	Motorola(Chenyang)	Model Name	MC-107
AC Adapter 3(CHILE)	Brand Name	Motorola(SALCOMP)	Model Name	MC-109
AC Adapter 4(EU)	Brand Name	Motorola(AOHAI)	Model Name	MC-202L
AC Adapter 4(UK)	Brand Name	Motorola(AOHAI)	Model Name	MC-203L
AC Adapter 4(IN)	Brand Name	Motorola(AOHAI)	Model Name	MC-204
AC Adapter 5(EU)	Brand Name	Motorola(SALCOMP)	Model Name	MC-202L
AC Adapter 5(UK)	Brand Name	Motorola(SALCOMP)	Model Name	MC-203L
AC Adapter 6(EU)	Brand Name	Motorola(Chenyang)	Model Name	MC-202L
Battery 1	Brand Name	Motorola(SUNWODA)	Model Name	RL52
Battery 2	Brand Name	Motorola(SUNWODA)	Model Name	SL70
USB Cable 1	Brand Name	Motorola(Juwei)	Model Name	JWUB1982-ZN01H
USB Cable 2	Brand Name	Motorola(Washin)	Model Name	HX-ZN-37
USB Cable 3	Brand Name	Motorola(Juwei)	Model Name	JWUB1928-ZN01H
USB Cable 4	Brand Name	Motorola(Washin)	Model Name	HX-ZN-34
USB Cable 5	Brand Name	Motorola(Juwei)	Model Name	JWUB2002-ZN01H
USB Cable 6	Brand Name	Motorola(Washin)	Model Name	HX-ZN-39
Earphone	Brand Name	Motorola(New LEADER)	Model Name	NLD-EM313A-23SF-KD



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(Middle) + Bluetooth Idle + WLAN (2.4G) Idle + Camera(Rear) + Earphone + Battery 1 + USB Cable 1 (Charging from Adapter 1) + SIM for Sample 1
	Mode 2 : WCDMA Band V Rx(Middle) + Bluetooth Idle + WLAN (5G) Idle + Camera(Front) + Earphone + Battery 1 + USB Cable 2 (Charging from Adapter 2) + SIM for Sample 1
	Mode 3 : LTE Band 5 Rx(Low) + Bluetooth Idle + WLAN (2.4G) Idle + MPEG4(Run Color Bar) + Earphone + Battery 1 + USB Cable 2 (Charging from Adapter 3) + SIM for Sample 1
	Mode 4 : LTE Band 26 Rx(High) + Bluetooth Idle + WLAN (5G) Idle + FM Rx(98MHz) + Earphone + Battery 1 + USB Cable3 (Charging from Adapter (Lab)) + SIM for Sample 1
	Mode 5 : LTE Band 5 RX(High) + Bluetooth Idle + WLAN (2.4G) Idle + GNSS Rx + Earphone + Battery 1 + USB Cable4 (Charging from Adapter (Lab)) + SIM for Sample 1
	Mode 6 : LTE Band 5 RX(Low) + Bluetooth Idle + WLAN (5G) Idle + Camera(Front) + Earphone + Battery 1 + USB Cable 1(Data Link with Notebook) + EUT (eMMC) USB Data Link to PC/NB + SIM for Sample 1
	Mode 7 : GSM 850 Rx(Low) + Bluetooth Idle + WLAN (2.4G) Idle + Camera(Front) + Earphone + Battery 1 + USB Cable 1(Data Link with Notebook) + PC/NB USB Data Link to EUT (eMMC) + SIM for Sample 1
	Mode 8 : WCDMA Band V Rx(Middle) + Bluetooth Idle + WLAN (5G) Idle + Camera(Front) + Earphone + Battery 1 + USB Cable 1(Data Link with Notebook) + EUT (SD) USB Data Link to PC/NB + SIM for Sample 1
	Mode 9 : WCDMA Band V Rx(Middle) + Bluetooth Idle + WLAN (2.4G) Idle + Camera(Front) + Earphone + Battery 1 + USB Cable 1(Data Link with Notebook) + PC/NB USB Data Link to EUT (SD) + SIM for Sample 1
	Mode 10 : WCDMA Band V Rx(Middle) + Bluetooth Idle + WLAN (5G) Idle + Camera(Front) + Earphone + Battery 1 + USB Cable 2(Data Link with Notebook) + SIM for Sample 1
	Mode 11 : WCDMA Band V Rx(Middle) + Bluetooth Idle + WLAN (2.4G) Idle + Camera(Front) + Earphone + Battery 1 + USB Cable 3(Data Link with Notebook) + SIM for Sample 1
	Mode 12 : WCDMA Band V Rx(Middle) + Bluetooth Idle + WLAN (5G) Idle + Camera(Front) + Earphone + Battery 1 + USB Cable 4(Data Link with Notebook) + SIM for Sample 1
	Mode 13 : WCDMA Band 5 Rx(Middle) + Bluetooth Idle + WLAN (5G) Idle + Camera(Front) + Earphone + Battery 2 + USB Cable 3 (Charging from Adapter(Lab)) + SIM for Sample 2
	Mode 14 : WCDMA Band 5 Rx(Middle) + Bluetooth Idle + WLAN (5G) Idle + Camera(Front) + Earphone + Battery 2 + USB Cable 4 (Charging from Adapter(Lab)) + SIM for Sample 2

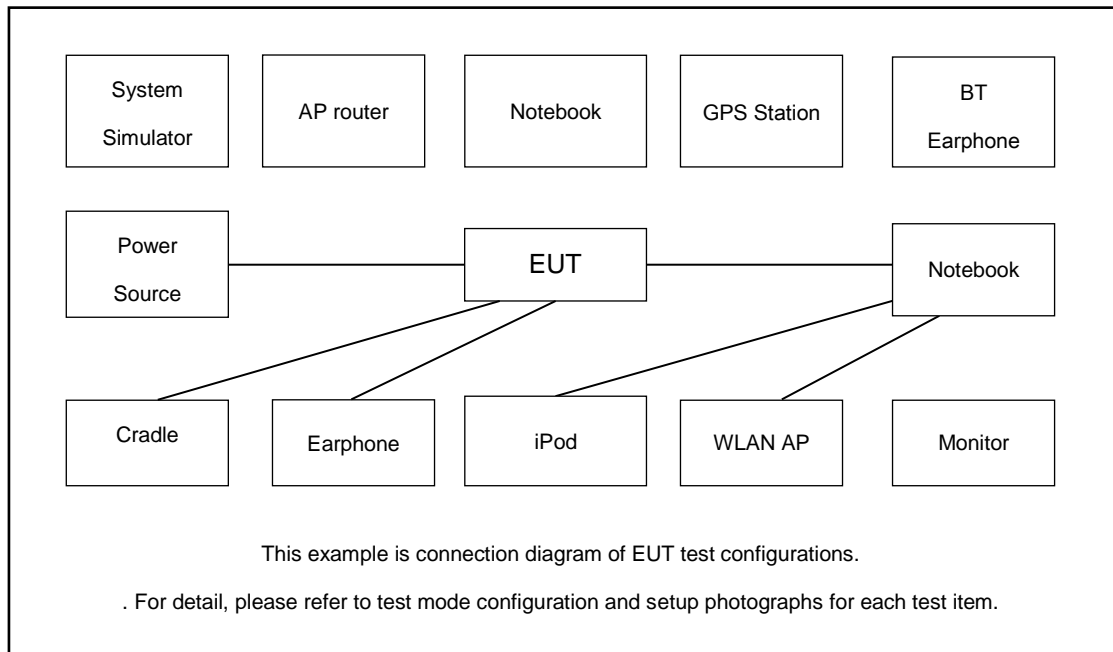


	<p>Mode 15 : WCDMA Band 5 Rx(Middle) + Bluetooth Idle + WLAN (5G) Idle + Camera(Front) + Earphone + Battery 2 + USB Cable 5 (Charging from Adapter 4) + SIM for Sample 2</p> <p>Mode 16 : WCDMA Band 5 Rx(Middle) + Bluetooth Idle + WLAN (5G) Idle + Camera(Front) + Earphone + Battery 2 + USB Cable 6 (Charging from Adapter 5) + SIM for Sample 2</p> <p>Mode 17 : WCDMA Band 5 Rx(Middle) + Bluetooth Idle + WLAN (5G) Idle + Camera(Front) + Earphone + Battery 2 + USB Cable 5 (Charging from Adapter 6) + SIM for Sample 2</p> <p>Mode 18 : WCDMA Band 5 Rx(Middle) + Bluetooth Idle + WLAN (5G) Idle + Camera(Front) + Earphone + Battery 2 + USB Cable 3 (Charging from Adapter (to lab)) + SIM for Sample 2</p> <p>Mode 19 : WCDMA Band 5 Rx(Middle) + Bluetooth Idle + WLAN (5G) Idle + Camera(Front) + Earphone + Battery 2 + USB Cable 3 (Data Link with Notebook) + EUT (eMMC) USB Data Link to PC/NB + SIM for Sample 2</p> <p>Mode 20 : WCDMA Band 5 Rx(Middle) + Bluetooth Idle + WLAN (5G) Idle + Camera(Front) + Earphone + Battery 2 + USB Cable 4 (Data Link with Notebook) + EUT (eMMC) USB Data Link to PC/NB + SIM for Sample 2</p> <p>Mode 21 : WCDMA Band 5 Rx(Middle) + Bluetooth Idle + WLAN (5G) Idle + Camera(Front) + Earphone + Battery 2 + USB Cable 5 (Data Link with Notebook) + EUT (eMMC) USB Data Link to PC/NB + SIM for Sample 2</p> <p>Mode 22 : WCDMA Band 5 Rx(Middle) + Bluetooth Idle + WLAN (5G) Idle + Camera(Front) + Earphone + Battery 2 + USB Cable 6 (Data Link with Notebook) + EUT (eMMC) USB Data Link to PC/NB + SIM for Sample 2</p>
Radiated Emissions	<p>Mode 1: GSM 850 Rx(Middle) + Bluetooth Idle + WLAN (2.4G) Idle + Camera(Rear) + Earphone + Battery 1 + USB Cable 1 (Charging from Adapter 1) + SIM for Sample 1</p> <p>Mode 2: WCDMA Band V Rx(Middle) + Bluetooth Idle + WLAN (5G) Idle + Camera(Front) + Earphone + Battery 1 + USB Cable 2 (Charging from Adapter 2) + SIM for Sample 1</p> <p>Mode 3: LTE Band 5 Rx(Low) + Bluetooth Idle + WLAN (2.4G) Idle + MPEG4(Run Color Bar) + Earphone + Battery 1 + USB Cable 2 (Charging from Adapter 3) + SIM for Sample 1</p> <p>Mode 4: LTE Band 26 Rx(High) + Bluetooth Idle + WLAN (5G) Idle + FM Rx(98MHz) + Earphone + Battery 1 + USB Cable3 (Charging from Adapter (Lab)) + SIM for Sample 1</p> <p>Mode 5: LTE Band 5 RX(High) + Bluetooth Idle + WLAN (2.4G) Idle + GNSS Rx + Earphone + Battery 1 + USB Cable4 (Charging from Adapter (Lab)) + SIM for Sample 1</p> <p>Mode 6: LTE Band 5 RX(Low) + Bluetooth Idle + WLAN (5G) Idle + Camera(Front) + Earphone + Battery 1 + USB Cable 1(Data Link with Notebook) + EUT (eMMC) USB Data Link to PC/NB+ SIM for Sample 1</p> <p>Mode 7: GSM 850 Rx(Low) + Bluetooth Idle + WLAN (2.4G) Idle + Camera(Front)+ Earphone + Battery 1 + USB Cable 1(Data Link with Notebook) + PC/NB USB Data Link to EUT (eMMC) + SIM for Sample 1</p> <p>Mode 8: LTE Band 5 RX(Low) + Bluetooth Idle + WLAN (5G) Idle + Camera(Front) + Earphone + Battery 1 + USB Cable 1(Data Link with Notebook) + EUT (SD) USB Data Link to PC/NB + SIM for Sample 1</p> <p>Mode 9: LTE Band 5 RX(Low) + Bluetooth Idle + WLAN (2.4G) Idle + Camera(Front) + Earphone + Battery 1 + USB Cable 1(Data Link with Notebook) + PC/NB USB Data Link to EUT (SD) + SIM for Sample 1</p> <p>Mode 10 : LTE Band 5 RX(Low) + Bluetooth Idle + WLAN (5G) Idle + Camera(Front) + Earphone + Battery 1 + USB Cable 2(Data Link with Notebook) + EUT (SD) USB Data Link to PC/NB + SIM for Sample 1</p> <p>Mode 11 : LTE Band 5 RX(Low) + Bluetooth Idle + WLAN (2.4G) Idle + Camera(Front) + Earphone + USB Cable 3(Data Link with Notebook) + EUT (SD) USB Data Link to PC/NB + SIM for Sample 1</p>



	<p>Mode 12 : LTE Band 5 RX(Low) + Bluetooth Idle + WLAN (5G) Idle + Camera(Front) + Earphone + USB Cable 4(Data Link with Notebook) + EUT (SD) USB Data Link to PC/NB + SIM for Sample 1</p> <p>Mode 13 : LTE Band 5 RX(Low) + Bluetooth Idle + WLAN (5G) Idle + Camera(Front) + Earphone + Battery 2 + USB Cable 3 (Charging from Adapter(Lab)) + SIM for Sample 2</p> <p>Mode 14 : LTE Band 5 RX(Low) + Bluetooth Idle + WLAN (5G) Idle + Camera(Front) + Earphone + Battery 2 + USB Cable 4 (Charging from Adapter(Lab)) + SIM for Sample 2</p> <p>Mode 15 : LTE Band 5 RX(Low) + Bluetooth Idle + WLAN (5G) Idle + Camera(Front) + Earphone + Battery 2 + USB Cable 5 (Charging from Adapter 4) + SIM for Sample 2</p> <p>Mode 16 : LTE Band 5 RX(Low) + Bluetooth Idle + WLAN (5G) Idle + Camera(Front) + Earphone + Battery 2 + USB Cable6 (Charging from Adapter 5) + SIM for Sample 2</p> <p>Mode 17 : LTE Band 5 RX(Low) + Bluetooth Idle + WLAN (5G) Idle + Camera(Front) + Earphone + Battery 2 + USB Cable 6 (Charging from Adapter 6) + SIM for Sample 2</p> <p>Mode 18 : LTE Band 5 RX(Low) + Bluetooth Idle + WLAN (5G) Idle + Camera(Front) + Earphone + Battery 2 + USB Cable 4 (Charging from Adapter(to lab)) + SIM for Sample 2</p> <p>Mode 19 : LTE Band 5 RX(Low) + Bluetooth Idle + WLAN (5G) Idle + Camera(Front) + Earphone + Battery 2 + USB Cable 3 (Data Link with Notebook) + EUT (SD) USB Data Link to PC/NB + SIM for Sample 2</p> <p>Mode 20 : LTE Band 5 RX(Low) + Bluetooth Idle + WLAN (5G) Idle + Camera(Front) + Earphone + Battery 2 + USB Cable 4 (Data Link with Notebook) + EUT (SD) USB Data Link to PC/NB + SIM for Sample 2</p> <p>Mode 21 : LTE Band 5 RX(Low) + Bluetooth Idle + WLAN (5G) Idle + Camera(Front) + Earphone + Battery 2 + USB Cable 5 (Data Link with Notebook) + EUT (SD) USB Data Link to PC/NB + SIM for Sample 2</p> <p>Mode 22 : LTE Band 5 RX(Low) + Bluetooth Idle + WLAN (5G) Idle + Camera(Front) + Earphone + Battery 2 + USB Cable 6 (Data Link with Notebook) + EUT (SD) USB Data Link to PC/NB + SIM for Sample 2</p>
Remark:	
<ol style="list-style-type: none"> 1. The worst case of AC is mode 2; only the test data of this mode is reported. 2. The worst case of RE is mode 8; 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	Anritus	MT8821C	N/A	N/A	Unshielded,1.8m
2.	Bluetooth Earphone	Lenovo	thinkplus-BH3	N/A	N/A	N/A
3.	Notebook	Lenovo	G480	QDS-BRCM1050I	N/A	shielded cable DC O/P 1.8m , Unshielded AC I/P cable 1.8m
4.	WLAN AP	D-link	DIR-655	KA21R655B1	N/A	Unshielded,1.8m
5.	Vector Signal Generator	R&S	SMBV100A	258305	N/A	N/A
6.	Hard Disk	Lenovo	F310	DoC	N/A	Shielded, 1.2m
7.	SD Card	Kingston	8GB	N/A	N/A	N/A
8.	Adapter	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 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.



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.

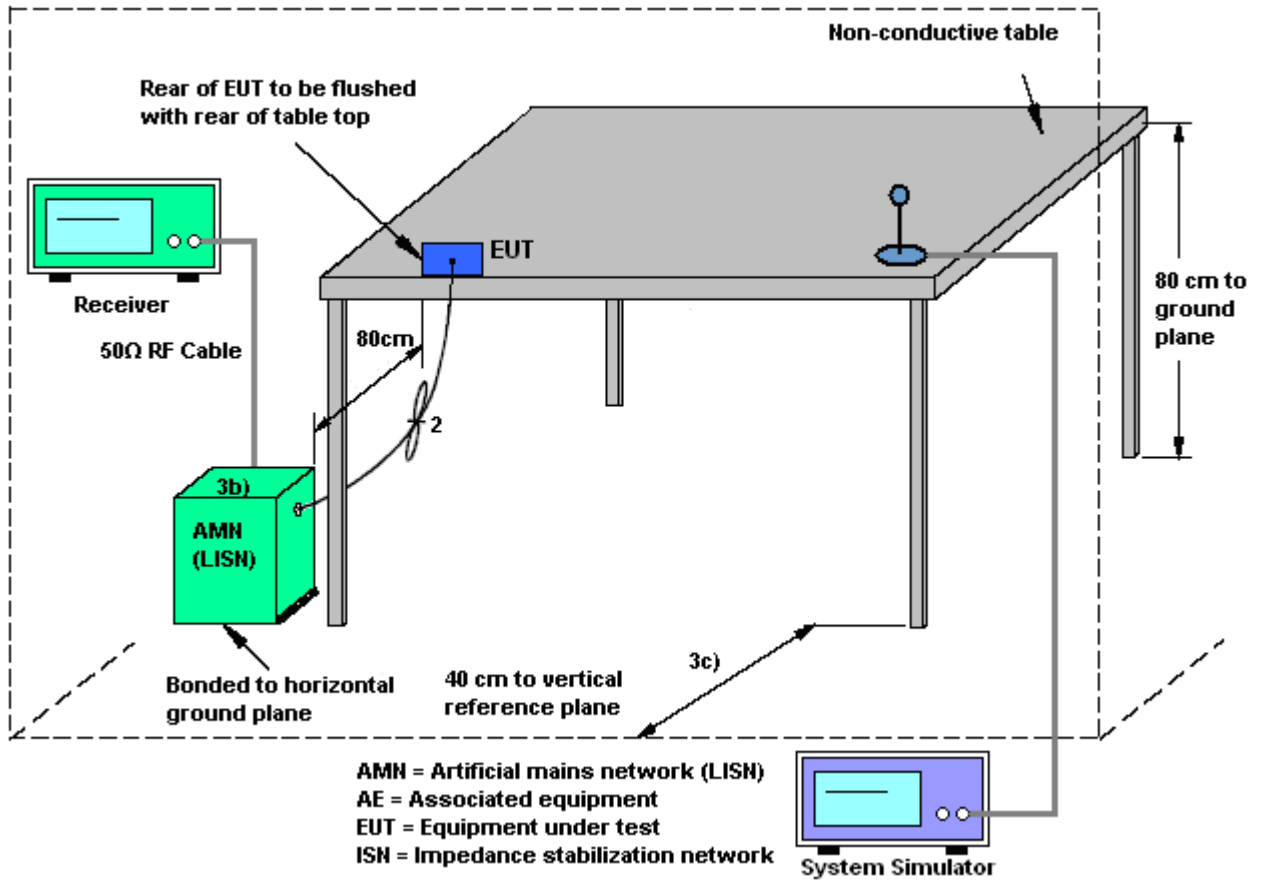
3.1.2 Measuring Instruments

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.

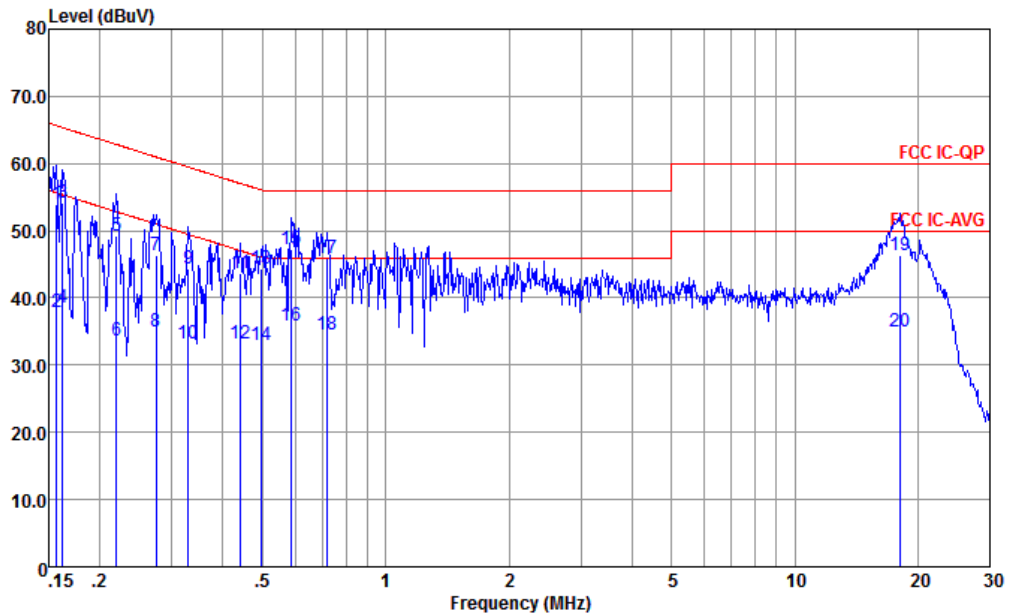
3.1.4 Test Setup





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.		

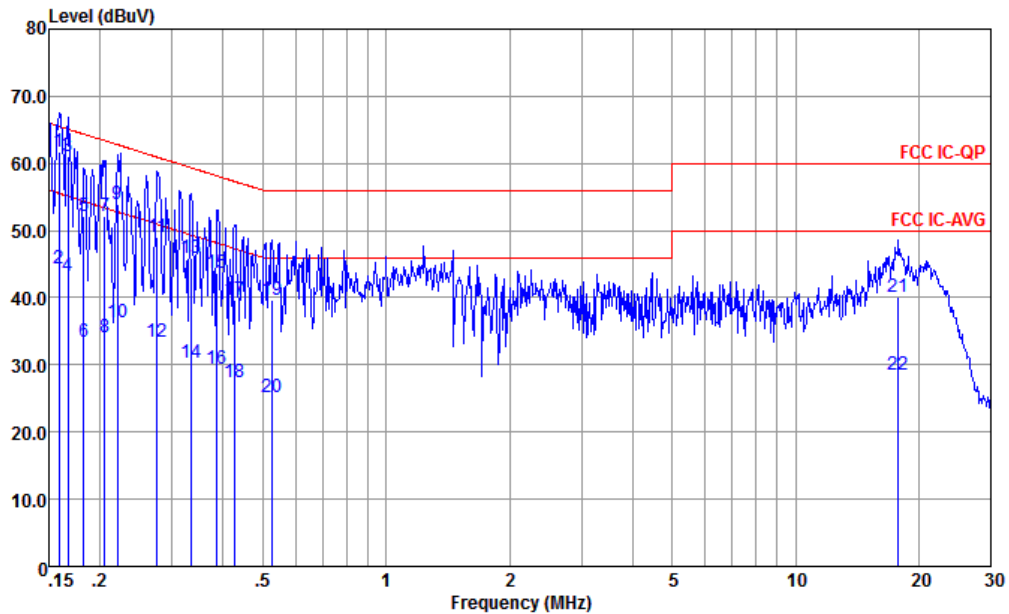


Site : CO01-KS
 Condition : FCC IC-QP LISN-060105-L 24+80 LINE

	Freq	Level	Over	Limit	Read	LISN	Cable	Remark
	MHz	dBuV	Limit	Line	Level	Factor	Loss	
			dB	dBuV	dBuV	dB	dB	
1	0.156	53.99	-11.66	65.65	43.30	0.24	10.45	QP
2	0.156	37.79	-17.86	55.65	27.10	0.24	10.45	Average
3	0.162	54.20	-11.14	65.34	43.51	0.24	10.45	QP
4	0.162	38.50	-16.84	55.34	27.81	0.24	10.45	Average
5	0.220	49.33	-13.50	62.83	38.61	0.26	10.46	QP
6	0.220	33.63	-19.20	52.83	22.91	0.26	10.46	Average
7	0.274	46.27	-14.71	60.98	35.50	0.30	10.47	QP
8	0.274	35.07	-15.91	50.98	24.30	0.30	10.47	Average
9	0.329	44.41	-15.08	59.49	33.60	0.33	10.48	QP
10	0.329	33.11	-16.38	49.49	22.30	0.33	10.48	Average
11	0.442	43.71	-13.31	57.02	32.91	0.35	10.45	QP
12	0.442	33.11	-13.91	47.02	22.31	0.35	10.45	Average
13	0.497	44.37	-11.68	56.05	33.60	0.36	10.41	QP
14	0.497	33.07	-12.98	46.05	22.30	0.36	10.41	Average
15 *	0.589	47.34	-8.66	56.00	36.59	0.37	10.38	QP
16	0.589	35.94	-10.06	46.00	25.19	0.37	10.38	Average
17	0.716	45.92	-10.08	56.00	35.21	0.38	10.33	QP
18	0.716	34.52	-11.48	46.00	23.81	0.38	10.33	Average
19	18.039	46.42	-13.58	60.00	35.10	1.03	10.29	QP
20	18.039	34.92	-15.08	50.00	23.60	1.03	10.29	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 LISN-060105-N 24+80 NEUTRAL

	Freq	Level	Over	Limit	Read	LISN	Cable	Remark
	MHz	dBuV	Limit	Line	Level	Factor	Loss	
			dB	dBuV	dBuV	dB	dB	
1 *	0.159	61.79	-3.73	65.52	51.10	0.24	10.45	QP
2	0.159	44.29	-11.23	55.52	33.60	0.24	10.45	Average
3	0.167	61.10	-4.02	65.12	50.40	0.25	10.45	QP
4	0.167	43.30	-11.82	55.12	32.60	0.25	10.45	Average
5	0.182	52.20	-12.17	64.37	41.49	0.25	10.46	QP
6	0.182	33.50	-20.87	54.37	22.79	0.25	10.46	Average
7	0.205	52.20	-11.20	63.40	41.50	0.24	10.46	QP
8	0.205	34.00	-19.40	53.40	23.30	0.24	10.46	Average
9	0.221	54.02	-8.77	62.79	43.31	0.25	10.46	QP
10	0.221	36.32	-16.47	52.79	25.61	0.25	10.46	Average
11	0.276	48.95	-11.99	60.94	38.20	0.28	10.47	QP
12	0.276	33.35	-17.59	50.94	22.60	0.28	10.47	Average
13	0.334	45.99	-13.36	59.35	35.21	0.30	10.48	QP
14	0.334	30.39	-18.96	49.35	19.61	0.30	10.48	Average
15	0.385	43.63	-14.54	58.17	32.80	0.34	10.49	QP
16	0.385	29.33	-18.84	48.17	18.50	0.34	10.49	Average
17	0.426	39.61	-17.72	57.33	28.79	0.35	10.47	QP
18	0.426	27.41	-19.92	47.33	16.59	0.35	10.47	Average
19	0.527	39.64	-16.36	56.00	28.89	0.35	10.40	QP
20	0.527	25.24	-20.76	46.00	14.49	0.35	10.40	Average
21	17.849	40.12	-19.88	60.00	28.81	1.02	10.29	QP
22	17.849	28.52	-21.48	50.00	17.21	1.02	10.29	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

Note: Measurement below 1GHz follows the CISPR 22 limit line as below :

15.109 (g) As an alternative to the radiated emission limits shown in paragraphs (a) and (b) of this section, digital devices may be shown to comply with the standards contained in Third Edition of the International Special Committee on Radio Interference (CISPR), Pub. 22, "Information Technology Equipment - Radio Disturbance Characteristics - Limits and Methods of Measurement"

<CISPR 22 Class B Limit>

Frequency (MHz)	Field Strength (dBuV/meter)	Measurement Distance (meters)
30 – 230	30	10
230 – 1000	37	10

3.2.2. Measuring Instruments

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

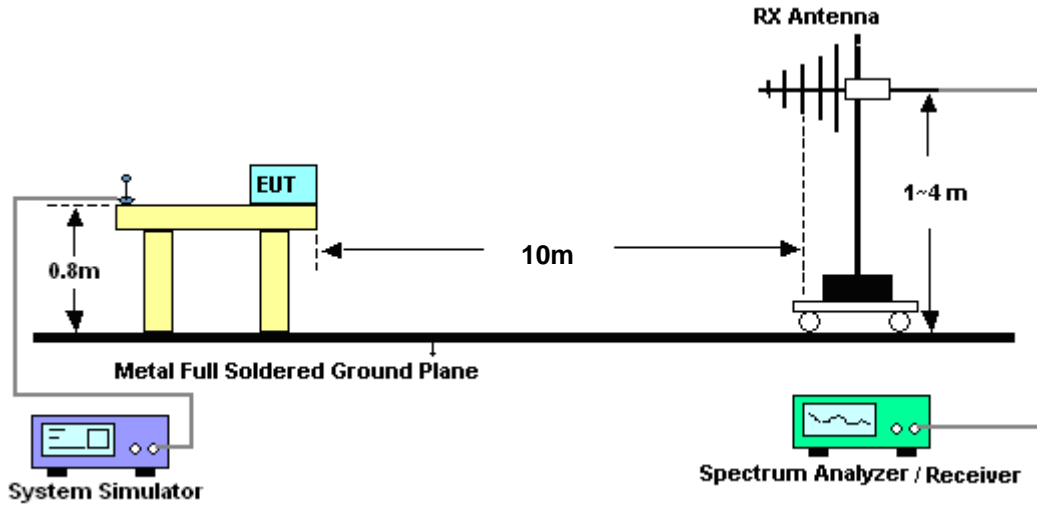


3.2.3. Test Procedures

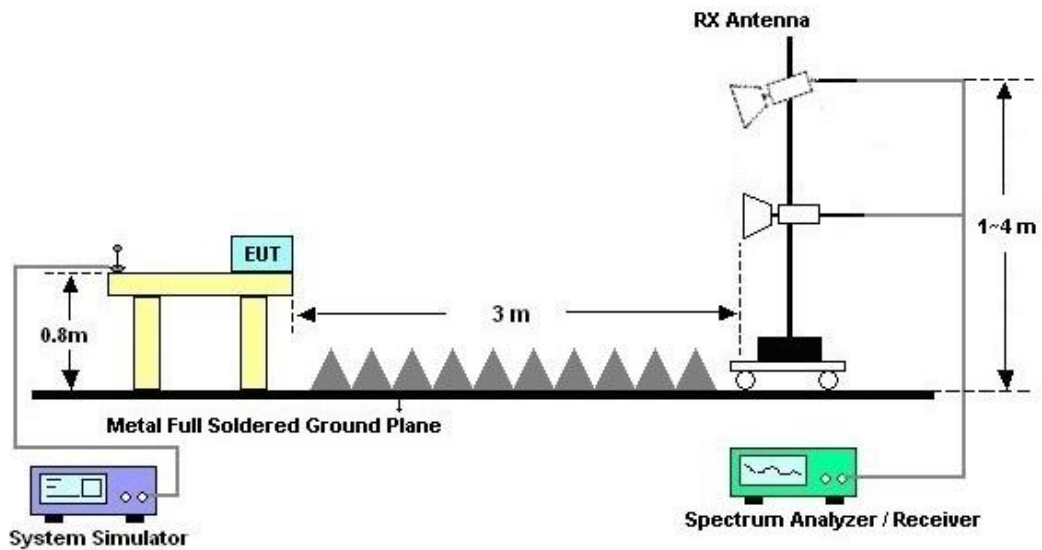
1. The EUT was placed on a turntable with 0.8 meter above ground.
2. The EUT was set 10 meters (30M~1G) and 3 meters (1G~ 30G) from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
3. The table was rotated 360 degrees to determine the position of the 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.

3.2.4. Test Setup of Radiated Emission

For radiated emissions from 30MHz to 1GHz

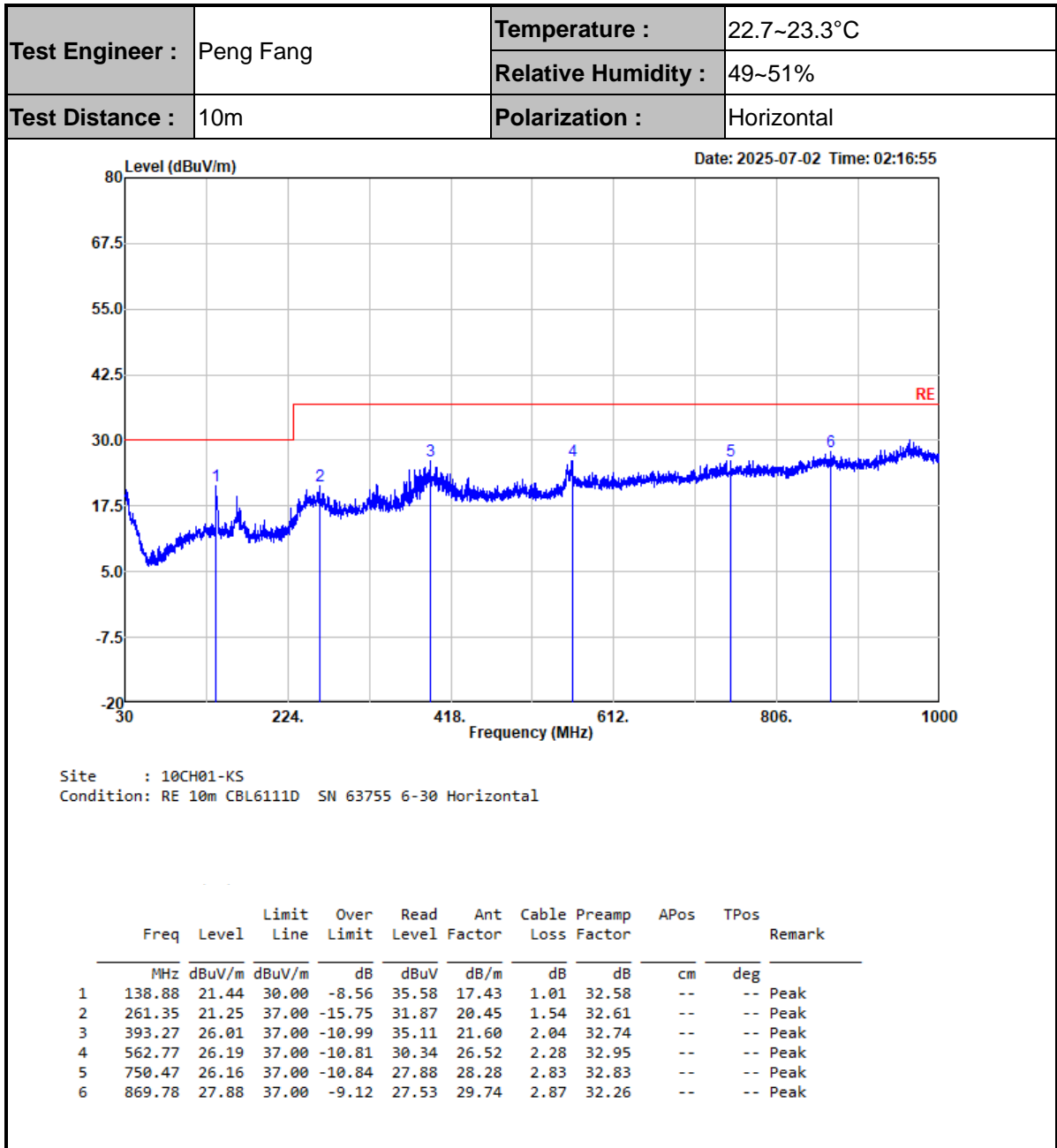


For radiated emissions above 1GHz



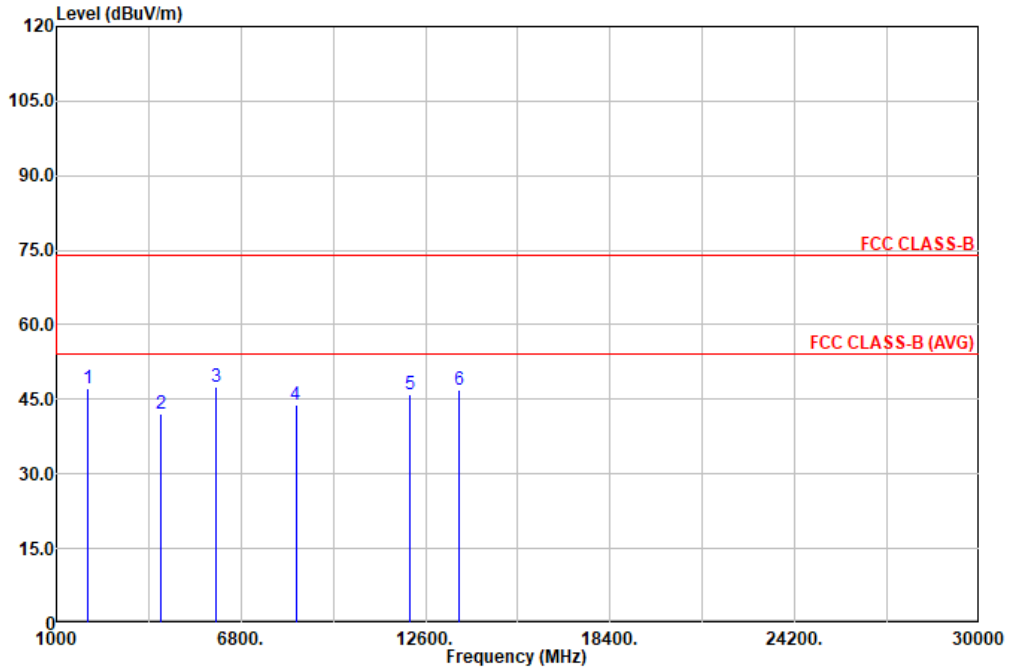


3.2.5. Test Result of Radiated Emission





Test Engineer :	Peng Fang	Temperature :	22.7~23.3°C
		Relative Humidity :	49~51%
Test Distance :	3m	Polarization :	Horizontal

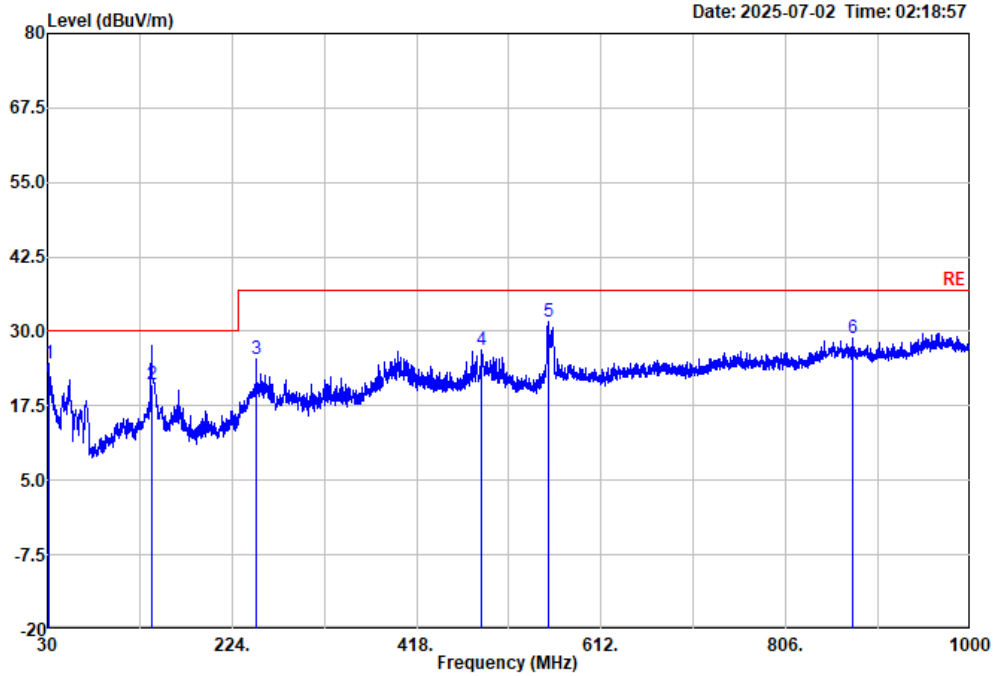


Site : 03CH02-KS
 Condition: FCC CLASS-B 3m 3117 SN 00251694 Horizontal

	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	1994.50	47.35	74.00	-26.65	73.64	31.52	4.69	62.50	---	---	Peak
2	4300.13	41.96	74.00	-32.04	64.78	34.10	6.97	63.89	---	---	Peak
3	6000.13	47.40	74.00	-26.60	68.25	35.20	8.20	64.25	---	---	Peak
4	8520.38	44.04	74.00	-29.96	61.87	35.74	9.83	63.40	---	---	Peak
5	12115.88	45.87	74.00	-28.13	55.83	38.65	12.25	60.86	---	---	Peak
6	13645.88	46.79	74.00	-27.21	56.57	38.87	13.24	61.89	---	---	Peak



Test Engineer :	Peng Fang	Temperature :	22.7~23.3°C
		Relative Humidity :	49~51%
Test Distance :	10m	Polarization :	Vertical

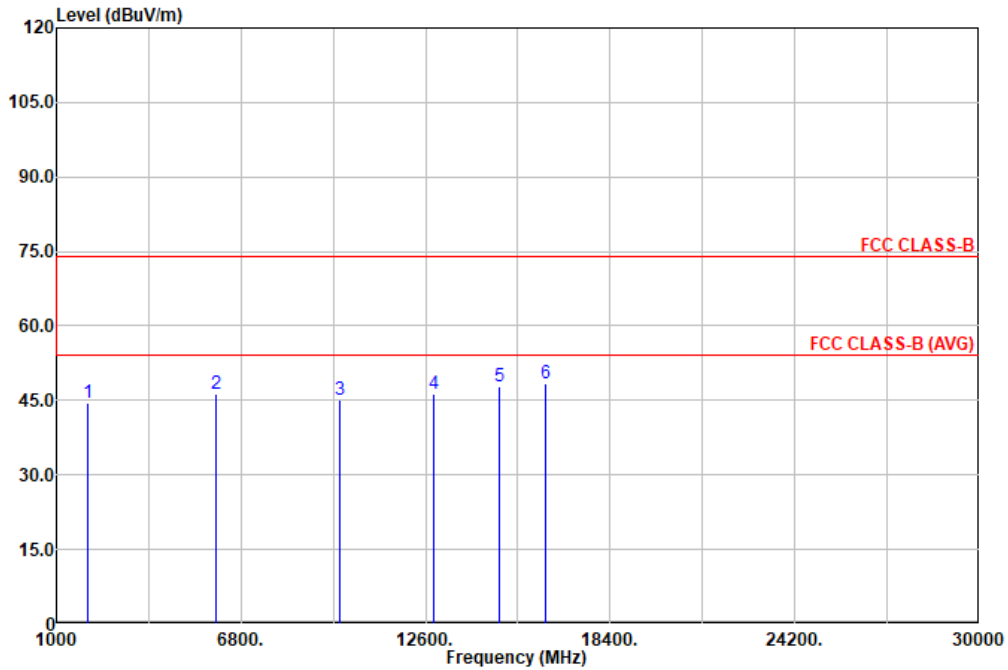


Site : 10CH01-KS
 Condition: RE 10m CBL6111D SN 63161 6-30 Vertical

	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	30.97	24.64	30.00	-5.36	32.27	24.68	0.32	32.63	--	--	Peak
2	139.37	21.00	30.00	-9.00	34.99	17.57	1.03	32.59	100	92	QP
3	248.98	25.42	37.00	-11.58	38.00	18.53	1.51	32.62	--	--	Peak
4	486.14	26.97	37.00	-10.03	33.69	23.93	2.20	32.85	--	--	Peak
5	555.98	31.72	37.00	-5.28	36.22	26.15	2.31	32.96	--	--	Peak
6	875.84	28.78	37.00	-8.22	28.53	29.50	2.95	32.20	--	--	Peak



Test Engineer :	Peng Fang	Temperature :	22.7~23.3°C
		Relative Humidity :	49~51%
Test Distance :	3m	Polarization :	Vertical



Site : 03CH02-KS
 Condition: FCC CLASS-B 3m 3117 SN 00251694 Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	Ant Factor	Cable Loss	Preamp Factor	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg	
1	1996.63	44.57	74.00	-29.43	70.86	31.51	4.70	62.50	---	---	Peak
2	6000.13	46.41	74.00	-27.59	67.26	35.20	8.20	64.25	---	---	Peak
3	9918.63	45.00	74.00	-29.00	58.99	37.28	11.02	62.29	---	---	Peak
4	12872.38	46.36	74.00	-27.64	56.14	38.95	12.99	61.72	---	---	Peak
5	14910.25	47.92	74.00	-26.08	57.03	39.71	13.66	62.48	---	---	Peak
6	16389.25	48.53	74.00	-25.47	56.53	40.73	14.02	62.75	---	---	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
EXA Spectrum Analyzer	Keysight	N9010A	MY55370528	10Hz-44G,MAX 30dB	Dec. 03, 2024	Jul. 02, 2025	Dec. 02, 2025	Radiation (03CH02-KS)
Bilog Antenna	TeseQ	CBL6111D	59915	30MHz-1GHz	Aug. 18, 2024	Jul. 02, 2025	Aug. 17, 2025	Radiation (03CH02-KS)
Double Ridge Horn Antenna	ETS-Lindgren	3117	75959	1GHz~18GHz	Mar. 05, 2025	Jul. 02, 2025	Mar. 04, 2026	Radiation (03CH02-KS)
SHF-EHF Horn	Com-power	AH-840	101115	18GHz~40GHz	Oct. 22, 2024	Jul. 02, 2025	Oct. 21, 2025	Radiation (03CH02-KS)
Amplifier	EM	EM18G40GA	060852	18~40GHz	Jan. 03, 2025	Jul. 02, 2025	Jan. 02, 2026	Radiation (03CH02-KS)
Amplifier	EM	EM01G18G	060840	1Ghz-18Ghz	Oct. 09, 2024	Jul. 02, 2025	Oct. 08, 2025	Radiation (03CH02-KS)
AC Power Source	Chroma	61601	616010002473	N/A	NCR	Jul. 02, 2025	NCR	Radiation (03CH02-KS)
Turn Table	MF	MF7802	N/A	0~360 degree	NCR	Jul. 02, 2025	NCR	Radiation (03CH02-KS)
Antenna Mast	MF	MF7802	N/A	1 m~4 m	NCR	Jul. 02, 2025	NCR	Radiation (03CH02-KS)
Bilog Antenna	TESEQ	CBL6111D	63161	30MHz~1GHz	Oct. 25, 2024	Jul. 02, 2025	Oct. 24, 2025	Radiation (10CH01-KS)
Bilog Antenna	TESEQ	CBL6111D	63755	30MHz~1GHz	Oct. 25, 2024	Jul. 02, 2025	Oct. 24, 2025	Radiation (10CH01-KS)
EMI test receiver	R&S	ESR7	102630	9KHz~7GHz	Oct. 09, 2024	Jul. 02, 2025	Oct. 08, 2025	Radiation (10CH01-KS)
EMI test receive	R&S	ESR7	102631	9KHz~7GHz	Oct. 09, 2024	Jul. 02, 2025	Oct. 08, 2025	Radiation (10CH01-KS)
Amplifier	SONOMA	310N	422544	9KHz ~1GHZ	Oct. 09, 2024	Jul. 02, 2025	Oct. 08, 2025	Radiation (10CH01-KS)
Amplifier	SONOMA	310N	422545	9KHz ~1GHZ	Oct. 09, 2024	Jul. 02, 2025	Oct. 08, 2025	Radiation (10CH01-KS)
EXA Spectrum Analyzer	Keysight	N9010B	MY60242126	10Hz-44G,MAX 30dB	Oct. 10, 2024	Jul. 02, 2025	Oct. 09, 2025	Radiation (10CH01-KS)
Radio communication analyzer	Anritsu	MT8821C	6261806798	2G/3G/LTEband 1-46 ,48,65-70	Jul, 04, 2024	Jul. 02, 2025	Jul, 03, 2025	Radiation (10CH01-KS)
Loop Antenna	R&S	HFH2-Z2E	101125	9kHz~30MHz	Sep. 08, 2024	Jul. 02, 2025	Sep. 07, 2025	Radiation (10CH01-KS)
Bore-site Antenna Mast	EM	MBD-400-1	NA	1 m~4 m	NCR	Jul. 02, 2025	NCR	Radiation (10CH01-KS)
Antenna Mast	EM	MBD-400-1	NA	1 m~4 m	NCR	Jul. 02, 2025	NCR	Radiation (10CH01-KS)
Controller	EM	3000-1	NA	NA	NCR	Jul. 02, 2025	NCR	Radiation (10CH01-KS)
Turn Table	EM	T-300-1	NA	0~360 degree	NCR	Jul. 02, 2025	NCR	Radiation (10CH01-KS)
EMI Receiver	R&S	ESCI7	100768	9kHz~7GHz;	Apr 16, 2025	Jul. 23, 2025	Apr 15, 2026	Conduction (CO01-KS)
AC LISN (for auxiliary equipment)	MessTec	AN3016	060103	9kHz~30MHz	Aug. 20, 2024	Jul. 23, 2025	Aug. 19, 2025	Conduction (CO01-KS)
AC LISN	MessTec	AN3016	060105	9kHz~30MHz	Dec. 24, 2024	Jul. 23, 2025	Dec. 23, 2025	Conduction (CO01-KS)
AC Power Source	Chroma	61602	ABP000000811	AC 0V~300V, 45Hz~1000Hz	Oct. 09, 2024	Jul. 23, 2025	Oct. 08, 2025	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 = 2Uc(y))	2.84 dB
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Uncertainty of Radiated Emission Measurement (1000 MHz ~ 18000 MHz)-03CH02-KS

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	4.90 dB
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Uncertainty of Radiated Emission Measurement (18000 MHz ~ 40000 MHz)-03CH02-KS

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	5.30 dB
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Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz) - 10CH01-KS(Horizontal)

Measuring Uncertainty for a Level of Confidence of 95% (U=2Uc(y))	5.04 dB
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Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz) - 10CH01-KS(Vertical)

Measuring Uncertainty for a Level of Confidence of 95% (U=2Uc(y))	5.04 dB
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----- THE END -----