



FCC Test Report

APPLICANT : Motorola Mobility LLC
EQUIPMENT : Qi2 wireless charger
BRAND NAME : Motorola
MODEL NAME : XT2639-1
FCC ID : IHDT6AC8
STANDARD : 47 CFR Part 15 Subpart B
CLASSIFICATION : Certification
TEST DATE(S) : Jul. 22, 2026 ~ Aug. 26, 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	5
1.5. Modification of EUT	5
1.6. Test Location	6
1.7. Test Software	6
1.8. Applicable Standards	6
2. TEST CONFIGURATION OF EQUIPMENT UNDER TEST	7
2.1. Test Mode	7
2.2. Connection Diagram of Test System	8
2.3. Support Unit used in test configuration and system.....	8
3. TEST RESULT	9
3.1. Test of AC Conducted Emission Measurement	9
3.2. Test of Radiated Emission Measurement	13
4. LIST OF MEASURING EQUIPMENT	18
5. MEASUREMENT UNCERTAINTY	19
APPENDIX A. SETUP PHOTOGRAPHS	



REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FC662204	Rev. 01	Initial issue of report	Aug. 10, 2026
FC662204	Rev. 02	Added test data for Private Protocol 30W. This report is an updated version, replacing the report issued on Aug. 10, 2026.	Sep. 01, 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 7.19 dB at 9.451 MHz
3.2	15.109	Radiated Emission	< 15.109 limits	PASS	Under limit 6.05 dB at 82.87 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	Qi2 wireless charger
Brand Name	Motorola
Model Name	XT2639-1
FCC ID	IHDT6AC8
EUT supports Radios application	WPT
SN Code	Conduction: HZS000J2 Radiation: HZS000HB
EUT Stage	Identical Prototype

Remark: The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.

1.4. Product Specification of Equipment Under Test

Standards-related Product Specification	
Tx/RX Frequency	Wireless power 15W/25W: 360kHz Wireless power 5W: 128kHz Wireless power 25W/30W:112kHz~148kHz
Antenna Type	WPT: Coil Antenna
Type of Modulation	WPT: ASK

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	CN1257	314309

1.7. Test Software

Item	Site	Manufacturer	Name	Version
1.	03CH02-KS	AUDIX	E3	6.2009-8-24a1
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

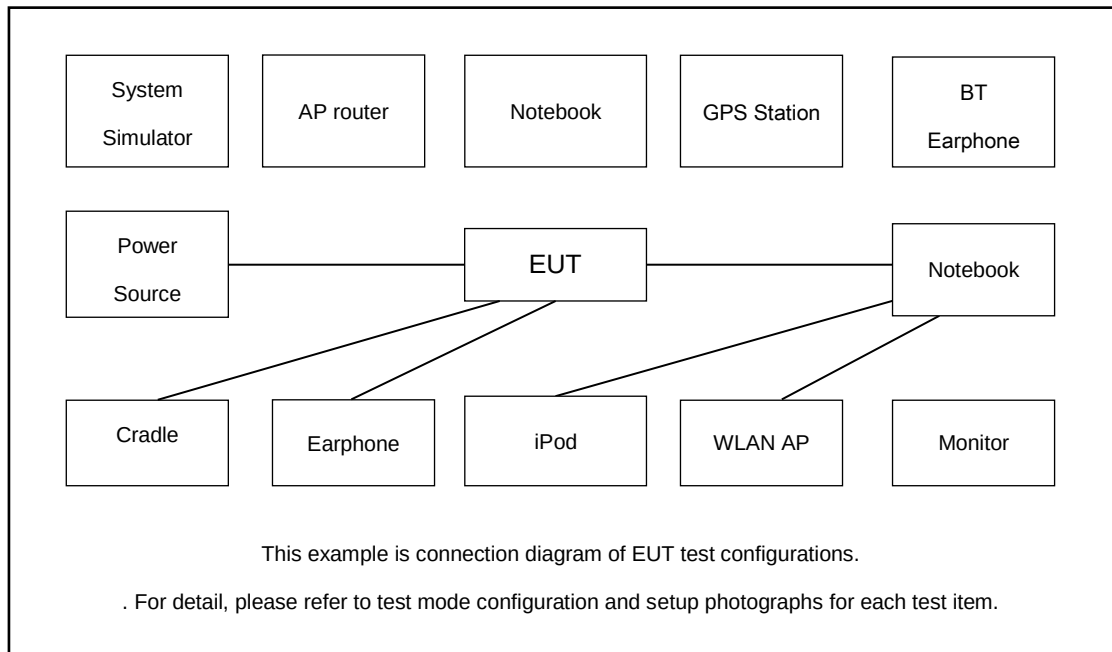
2.1. Test Mode

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: wireless charging with dummy load (112~148KHz) + Maximum output power of 25W
	Mode 2: wireless charging with dummy load (360KHz) + Maximum output power of 25W
	Mode 3: wireless charging with dummy load (112~148KHz) + Maximum output power of 30W
Radiated Emissions	Mode 1: wireless charging with dummy load (112~148KHz) + Maximum output power of 25W
	Mode 2: wireless charging with dummy load (360KHz) + Maximum output power of 25W
	Mode 3: wireless charging with dummy load (112~148KHz) + Maximum output power of 30W
Remark: 1. The worst case of AC is mode 1; only the test data of this mode is reported. 2. The worst case of RE is mode 1; only the test data of this mode is reported. 3. The device includes MPP25W and 15W (360kHz), BPP 5W (128kHz) and Private Protocol 25W (112kHz~148kHz) / 30W (112kHz~148kHz), five specifications. For EMC testing, we choice between the same frequency ranges, the specification with maximum output power to test.	

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.	dummy load	N/A	N/A	N/A	N/A	N/A
2.	Adapter	NA	NA	NA	NA	NA
3.	USB Cable	NA	NA	NA	NA	NA

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.

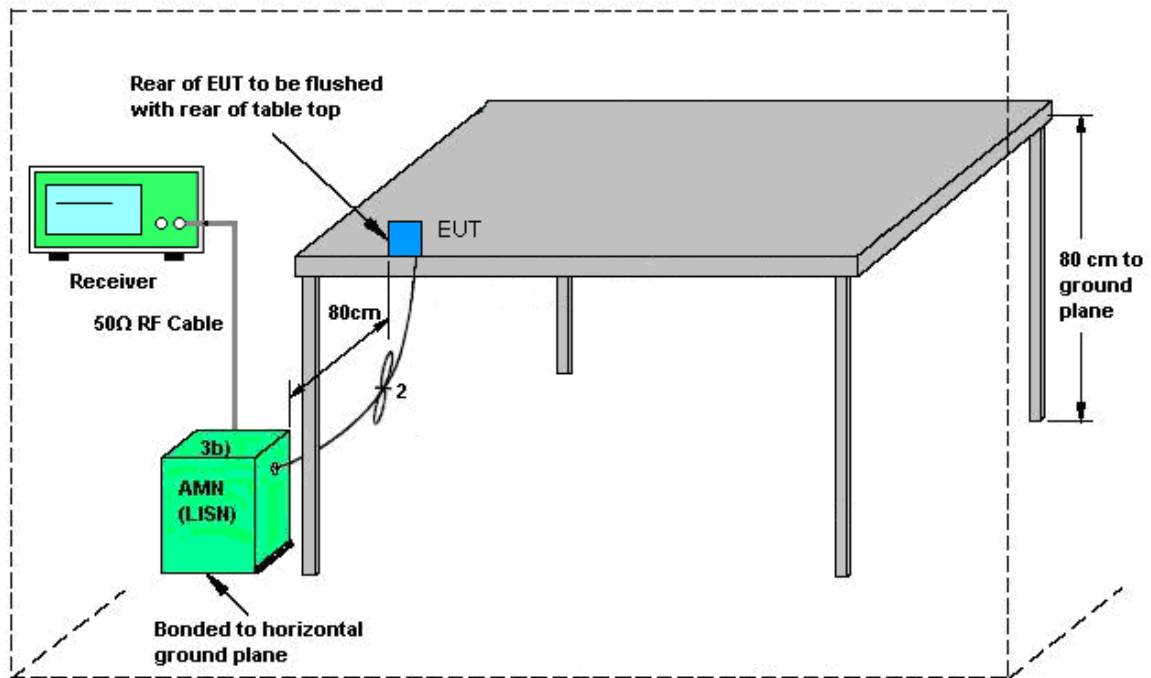
3.1.2 Measuring Instruments

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

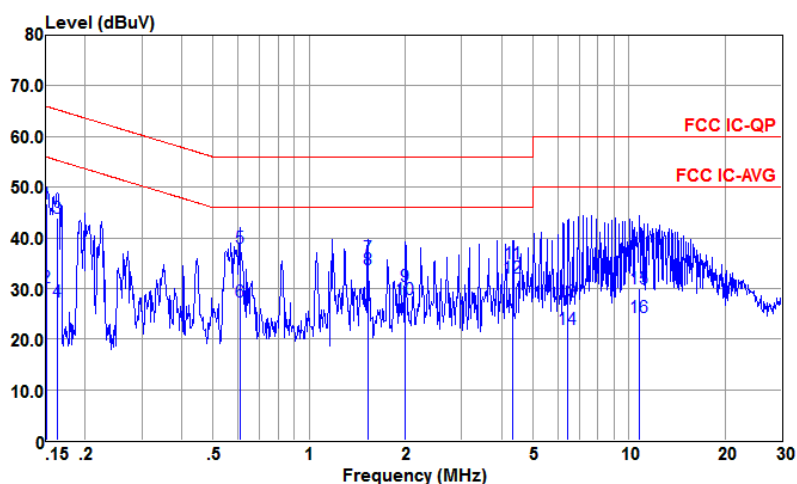


AMN = Artificial mains network (LISN)
 AE = Associated equipment
 EUT = Equipment under test
 ISN = Impedance stabilization network



3.1.5 Test Result of AC Conducted Emission

Test Engineer :	Amos	Temperature :	24.2~25.6°C
		Relative Humidity :	37~39%
Test Voltage :	120Vac / 60Hz	Phase :	Line
Remark :	All emissions not reported here are more than 10 dB below the prescribed limit.		

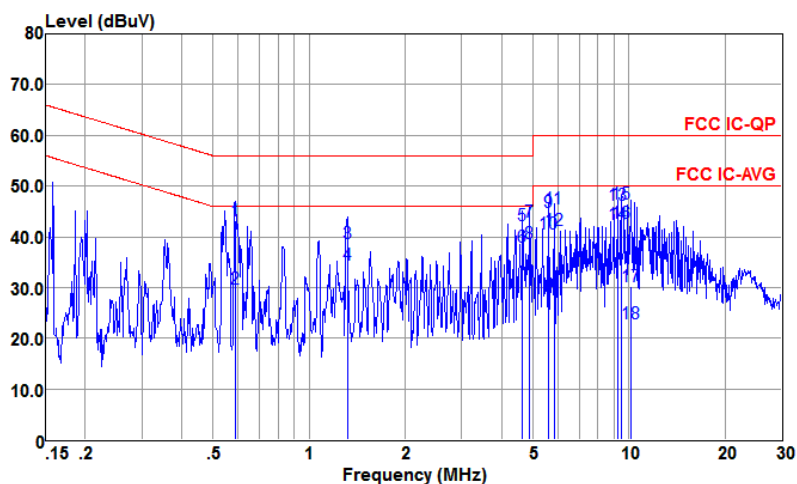


Site : CO01-KS
Condition : FCC IC-QP LISN-100334-L+CABLE LINE

	Freq	Level	Over	Limit	Read	LISN	Cable	
	MHz	dBuV	Limit	Line	Level	Factor	Loss	Remark
			dB	dBuV	dBuV	dB	dB	
1	0.152	46.62	-19.29	65.91	26.50	9.65	10.47	QP
2	0.152	30.32	-25.59	55.91	10.20	9.65	10.47	Average
3	0.163	43.92	-21.38	65.30	23.80	9.65	10.47	QP
4	0.163	27.32	-27.98	55.30	7.20	9.65	10.47	Average
5	0.608	38.02	-17.98	56.00	17.80	9.71	10.51	QP
6	0.608	27.42	-18.58	46.00	7.20	9.71	10.51	Average
7	1.527	36.10	-19.90	56.00	15.80	9.75	10.55	QP
8 *	1.527	33.80	-12.20	46.00	13.50	9.75	10.55	Average
9	2.001	30.52	-25.48	56.00	10.20	9.78	10.54	QP
10	2.001	27.92	-18.08	46.00	7.60	9.78	10.54	Average
11	4.338	35.01	-20.99	56.00	14.59	9.91	10.51	QP
12	4.338	32.21	-13.79	46.00	11.79	9.91	10.51	Average
13	6.454	27.29	-32.71	60.00	6.50	10.22	10.57	QP
14	6.454	21.99	-28.01	50.00	1.20	10.22	10.57	Average
15	10.790	30.00	-30.00	60.00	9.20	10.26	10.54	QP
16	10.790	24.30	-25.70	50.00	3.50	10.26	10.54	Average



Test Engineer :	Amos	Temperature :	24.2~25.6°C
		Relative Humidity :	37~39%
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-100334-N+CABLE NEUTRAL

	Freq	Level	Over	Limit	Read	LISN	Cable	
	MHz	dBuV	Limit	Line	Level	Factor	Loss	Remark
			dB	dBuV	dBuV	dB	dB	
1	0.589	43.11	-12.89	56.00	22.90	9.70	10.51	QP
2	0.589	29.71	-16.29	46.00	9.50	9.70	10.51	Average
3	1.317	38.78	-17.22	56.00	18.50	9.72	10.56	QP
4	1.317	34.38	-11.62	46.00	14.10	9.72	10.56	Average
5	4.647	42.35	-13.65	56.00	21.90	9.95	10.50	QP
6	4.647	37.95	-8.05	46.00	17.50	9.95	10.50	Average
7	4.900	42.87	-13.13	56.00	22.41	9.96	10.50	QP
8	4.900	38.67	-7.33	46.00	18.21	9.96	10.50	Average
9	5.623	44.95	-15.05	60.00	24.30	10.10	10.55	QP
10	5.623	40.55	-9.45	50.00	19.90	10.10	10.55	Average
11	5.836	45.60	-14.40	60.00	24.90	10.13	10.57	QP
12	5.836	41.40	-8.60	50.00	20.70	10.13	10.57	Average
13	9.204	46.22	-13.78	60.00	25.40	10.28	10.54	QP
14	9.204	42.42	-7.58	50.00	21.60	10.28	10.54	Average
15	9.451	46.51	-13.49	60.00	25.69	10.28	10.54	QP
16 *	9.451	42.81	-7.19	50.00	21.99	10.28	10.54	Average
17	10.125	30.30	-29.70	60.00	9.50	10.27	10.53	QP
18	10.125	22.90	-27.10	50.00	2.10	10.27	10.53	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

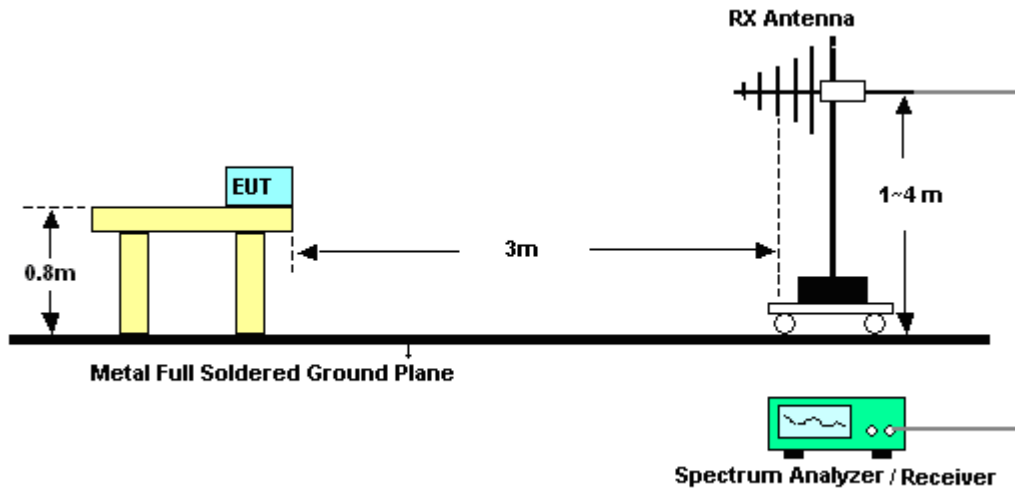
The measuring equipment is listed in the section 4 of this test report.

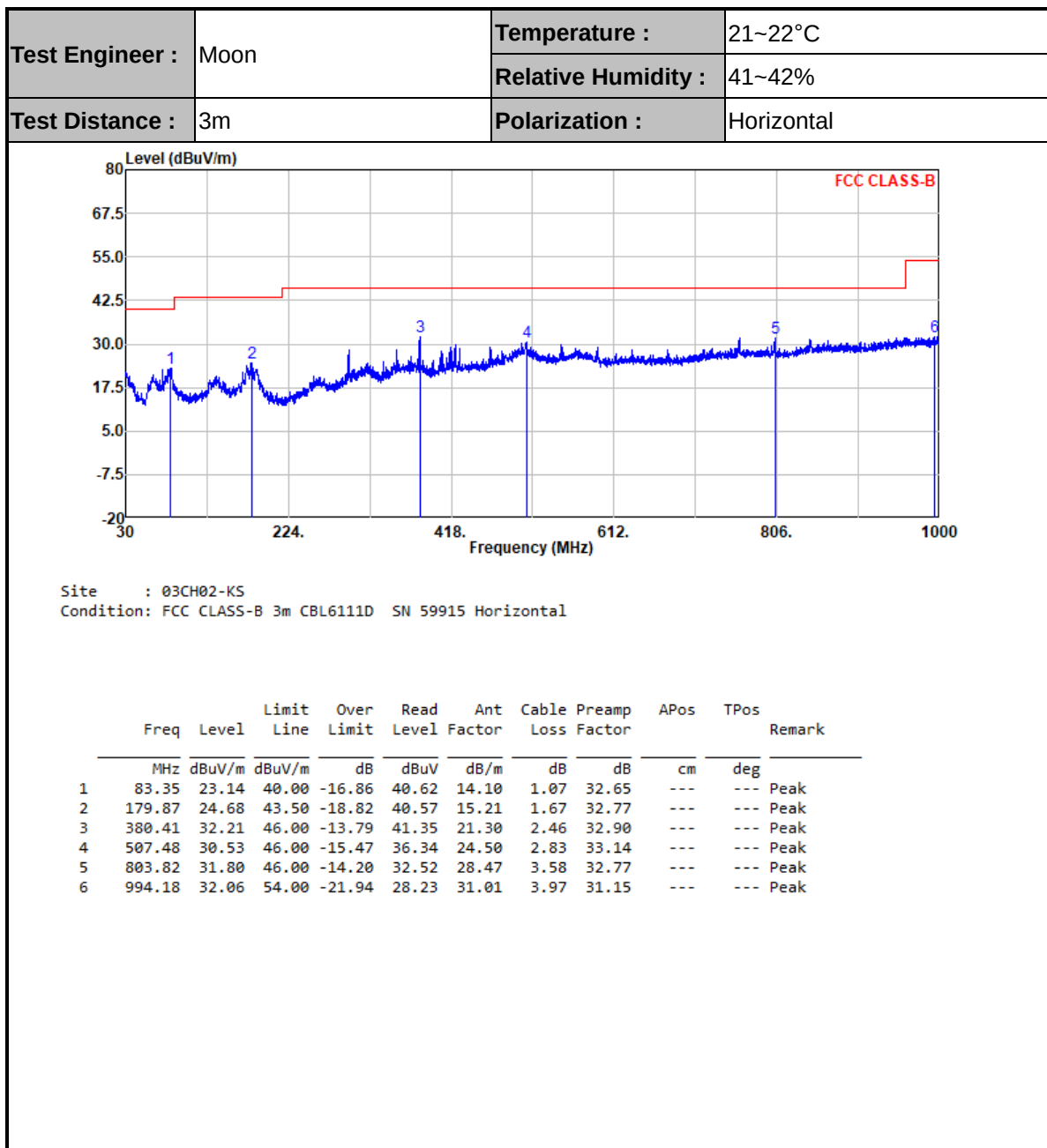
3.2.3. Test Procedures

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

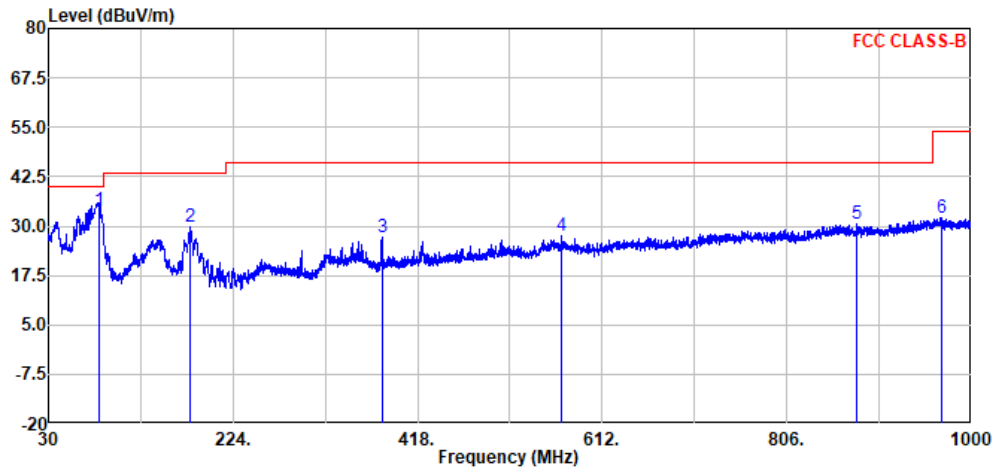
For radiated emissions from 30MHz to 1GHz



3.2.5. Test Result of Radiated Emission




Test Engineer :	Moon	Temperature :	21~22°C
		Relative Humidity :	41~42%
Test Distance :	3m	Polarization :	Vertical



Site : 03CH02-KS
Condition: FCC CLASS-B 3m CBL6111D SN 59915 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	82.87	33.95	40.00	-6.05	51.50	14.04	1.06	32.65	100	311	QP
2	179.14	29.94	43.50	-13.56	45.79	15.25	1.67	32.77	---	---	Peak
3	380.90	27.26	46.00	-18.74	36.39	21.31	2.46	32.90	---	---	Peak
4	569.32	27.46	46.00	-18.54	31.17	26.48	3.01	33.20	---	---	Peak
5	878.99	30.72	46.00	-15.28	29.49	29.77	3.73	32.27	---	---	Peak
6	967.99	32.09	54.00	-21.91	28.34	31.27	3.92	31.44	---	---	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
EMI Test Receiver	Keysight	N9038A	MY56400004	3Hz~8.5GHz;Max 30dBm	Oct. 10, 2025	Jul. 22, 2026~ Aug. 23, 2026	Oct. 09, 2026	Radiation (03CH02-KS)
EXA Spectrum Analyzer	Keysight	N9010A	MY55370528	10Hz~44G,MAX 30dB	Oct. 10, 2025	Jul. 22, 2026~ Aug. 23, 2026	Oct. 09, 2026	Radiation (03CH02-KS)
Bilog Antenna	TeseQ	CBL6111D	59915	30MHz~1GHz	Aug. 12, 2025	Jul. 22, 2026~ Aug. 23, 2026	Aug. 11, 2026	Radiation (03CH02-KS)
Bilog Antenna	TeseQ	CBL6111D	59915	30MHz~1GHz	Aug. 11, 2026		Aug. 10, 2027	Radiation (03CH02-KS)
Amplifier	SONOMA	310N	413740	9KHz~1GHz	Dec. 25, 2025	Jul. 22, 2026~ Aug. 23, 2026	Dec. 24, 2026	Radiation (03CH02-KS)
AC Power Source	Chroma	61601	616010002473	N/A	NCR	Jul. 22, 2026~ Aug. 23, 2026	NCR	Radiation (03CH02-KS)
Turn Table	MF	MF7802	N/A	0~360 degree	NCR	Jul. 22, 2026~ Aug. 23, 2026	NCR	Radiation (03CH02-KS)
Antenna Mast	MF	MF7802	N/A	1 m~4 m	NCR	Jul. 22, 2026~ Aug. 23, 2026	NCR	Radiation (03CH02-KS)
EMI Receiver	R&S	ESCI7	100768	9kHz~7GHz;	Apr. 08, 2026	Aug. 03, 2026~ Aug. 26, 2026	Apr. 07, 2027	Conduction (CO01-KS)
AC LISN (for auxiliary equipment)	MessTec	AN3016	060103	9kHz~30MHz	Jul. 03, 2026	Aug. 03, 2026~ Aug. 26, 2026	Jul. 02, 2027	Conduction (CO01-KS)
AC LISN	R&S	ENV216	100334	9kHz~30MHz	Apr. 08, 2026	Aug. 03, 2026~ Aug. 26, 2026	Apr. 07, 2027	Conduction (CO01-KS)
AC Power Source	Ouhan	APW-130NYT	202201040060	AC 0V~300V,45Hz~1000Hz	Apr. 08, 2026	Aug. 03, 2026~ Aug. 26, 2026	Apr. 07, 2027	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% ($U = 2U_c(y)$)	3.09 dB
---	---------

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

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2U_c(y)$)	6.26 dB
---	---------

----- THE END -----