

FCC Test Report

APPLICANT : Honeywell International Inc
EQUIPMENT : mobile computer
BRAND NAME : Honeywell
MODEL NAME : CT37X0N
FCC ID : HD5-CT37X0N
STANDARD : 47 CFR Part 15 Subpart B
CLASSIFICATION : Certification
TEST DATE(S) : Jul. 18, 2024 ~ Jul. 21, 2024

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
FC461913	Rev. 01	Initial issue of report	Jul. 26, 2024

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 10.79 dB at 11.080 MHz
3.2	15.109	Radiated Emission	< 15.109 limits	PASS	Under limit 3.32 dB at 480.08 MHz

Conformity Assessment Condition:

The test results (PASS/FAIL) with all measurement uncertainty excluded are presented against the regulation limits or in accordance with the requirements stipulated by the applicant/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

Honeywell International Inc
9680 Old Bailes Rd, Fort Mill, SC 29707

1.2. Manufacturer

Honeywell International Inc
9680 Old Bailes Rd, Fort Mill, SC 29707

1.3. Product Feature of Equipment Under Test

Product Feature	
Equipment	mobile computer
Brand Name	Honeywell
Model Name	CT37X0N
FCC ID	HD5-CT37X0N
EUT supports Radios application	WLAN 2.4GHz 802.11b/g/n HT20/HT40 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 WLAN 6GHz 802.11ax (HE20/ HE40/ HE80/ HE160) Bluetooth BR/EDR/LE NFC
IMEI / SN Code	Conduction: 24173001C4 Sample 1 2417300239 Sample 2 241730003C Sample 3 2417300220 Sample 4 24173002B1 Sample 5 Radiation: 24173001C4 for Sample 1 2417300239 for Sample 2 241730003C for Sample 3 241730021E for Sample 4 24173002BF for Sample 5
HW Version	V1.0
SW Version	514.03.00.0273-N-DEBUG-FIMG
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 five types of EUT, the differences could be referred to the CT37X0N_Operational

Description of Product Equality Declaration which is exhibit separately. According to the difference, we choose sample 1 to full test and the sample 2/3/4/5 is verified for the difference

1.4. Product Specification of Equipment Under Test

Standards-related Product Specification	
Tx Frequency	802.11b/g/n/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	802.11b/g/n/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
Antenna Type	<Ant 6> : WLAN : LDS Antenna <Ant 7> : WLAN : LDS Antenna Bluetooth module 1: LDS Antenna Bluetooth module 2: FPC Antenna NFC: FPC Antenna
Type of Modulation	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 NFC: 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

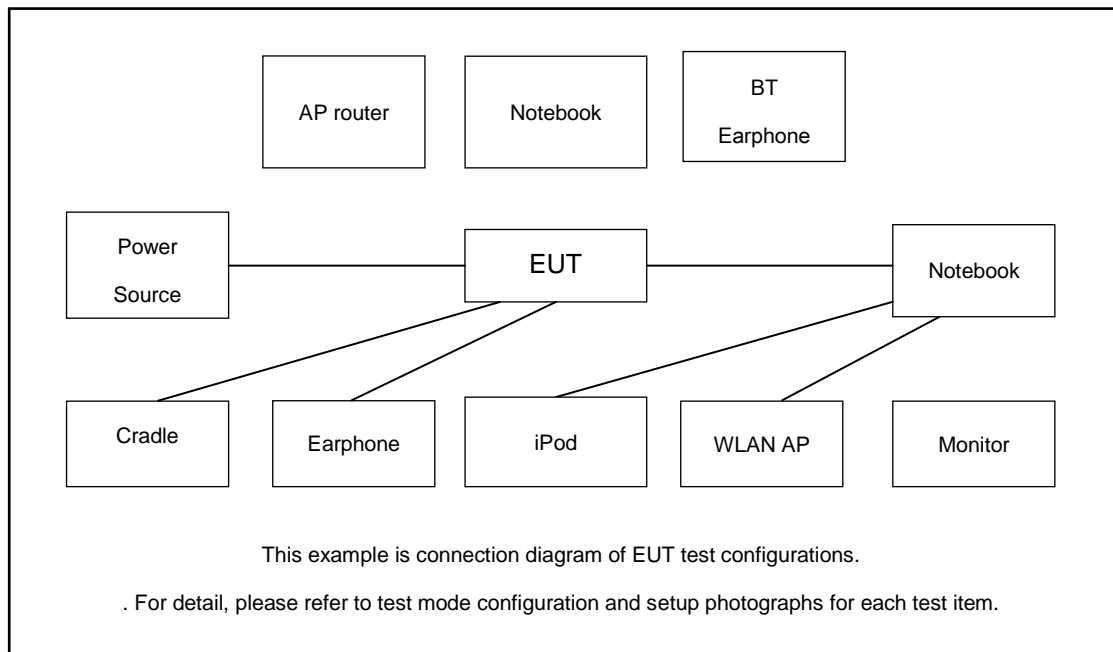
The EUT has been associated with peripherals pursuant to ANSI C63.4-2014 and configuration operated in a manner tended to maximize its emission characteristics in a typical application.

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: Bluetooth Idle 1 + WLAN (2.4G) Idle + Camera(Rear) + Battery + USB Cable (Charging from Adapter) + Lanyard for Sample 1
	Mode 2: Bluetooth Idle 1 + WLAN (5G) Idle + Camera(Front) + Battery + USB Cable (Charging from Adapter) + Lanyard for Sample 1
	Mode 3: Bluetooth Idle 1 + WLAN 6E Idle + MPEG4(Run Color Bar) + Battery + USB Cable (Data Link with Notebook) + EUT (eMMC) USB Data Link to PC/NB + Lanyard for Sample 1
	Mode 4: Bluetooth Idle 1 + WLAN (2.4G) Idle + NFC On + Battery + USB Cable (Data Link with Notebook) + PC/NB USB Data Link to EUT (eMMC) + Lanyard for Sample 1
	Mode 5: Bluetooth Idle 1 + WLAN (5G) Idle + scanning + Battery + USB Cable (Data Link with Notebook) + EUT (SD) USB Data Link to PC/NB + Lanyard for Sample 1
	Mode 6: Bluetooth Idle 1 + WLAN 6E Idle + MPEG4(Run Color Bar) + Battery + USB Cable (Data Link with Notebook) + PC/NB USB Data Link to EUT (SD) + Lanyard for Sample 1
	Mode 7: Bluetooth Idle 1 + WLAN (2.4G) Idle + MPEG4(Run Color Bar) + Battery + USB Cable (Data Link with Notebook) + EUT ((IPSM CARD) USB Data Link to PC/NB + Lanyard for Sample 1
	Mode 8: Bluetooth Idle 1 + WLAN (5G) Idle + MPEG4(Run Color Bar) + Battery + USB Cable (Data Link with Notebook) + PC/NB USB Data Link to EUT (IPSM CARD) + Lanyard for Sample 1
	Mode 9: Bluetooth Idle 1 + WLAN (5G) Idle + MPEG4(Run Color Bar) + Battery + Charging from cradle+ Lanyard for Sample 1
	Mode 10: Bluetooth Idle 1 + WLAN (5G) Idle + MPEG4(Run Color Bar) + Battery + Charging from cradle+ Lanyard for Sample 2
	Mode 11: Bluetooth Idle 1 + WLAN 6E Idle+ scanning + Battery + USB Cable (Data Link with Notebook)+ EUT (eMMC) USB Data Link to PC/NB + Lanyard for Sample 3
	Mode 12: Bluetooth Idle 1 + WLAN 6E Idle+ MPEG4(Run Color Bar) + Battery + USB Cable (Data Link with Notebook)+ EUT (eMMC) USB Data Link to PC/NB + Lanyard for Sample 4
	Mode 13: Bluetooth Idle 1 + WLAN (5G) Idle+ scanning + Battery + Charging from cradle + Lanyard for Sample 5
	Mode 14: Bluetooth Idle 1 + WLAN (5G) Idle+ MPEG4(Run Color Bar) + Battery + Stock With scanning + Lanyard for Sample 1

Radiated Emissions	<p>Mode 1: Bluetooth Idle 1 + WLAN (2.4G) Idle + Camera(Rear) + Battery1 + USB Cable (Charging from Adapter) + Lanyard for Sample 1</p> <p>Mode 2: Bluetooth Idle 1 + WLAN (5G) Idle + Camera(Front) + Earphone + Battery + Lanyard for Sample 1</p> <p>Mode 3: Bluetooth Idle 1 + WLAN 6E Idle + MPEG4(Run Color Bar) + Battery + USB Cable (Data Link with Notebook) + EUT (eMMC) USB Data Link to PC/NB + Lanyard for Sample 1</p> <p>Mode 4: Bluetooth Idle 1 + WLAN (2.4G) Idle + NFC On + Battery + USB Cable (Data Link with Notebook) + PC/NB USB Data Link to EUT (eMMC) + Lanyard for Sample 1</p> <p>Mode 5: Bluetooth Idle 1 + WLAN (5G) Idle + scanning + Battery + USB Cable (Data Link with Notebook) + EUT (SD) USB Data Link to PC/NB + Lanyard for Sample 1</p> <p>Mode 6: Bluetooth Idle 1 + WLAN 6E Idle + MPEG4(Run Color Bar) + Battery + USB Cable (Data Link with Notebook) + PC/NB USB Data Link to EUT (SD) + Lanyard for Sample 1</p> <p>Mode 7: Bluetooth Idle 1 + WLAN (2.4G) Idle + MPEG4(Run Color Bar) + Battery + USB Cable (Data Link with Notebook) + EUT ((IPSM CARD) USB Data Link to PC/NB + Lanyard for Sample 1</p> <p>Mode 8: Bluetooth Idle 1 + WLAN 6E Idle + MPEG4(Run Color Bar) + Battery + USB Cable (Data Link with Notebook) + PC/NB USB Data Link to EUT (IPSM CARD) + Lanyard for Sample 1</p> <p>Mode 9: Bluetooth Idle 2 + Phone turn-off + Stand Alone + Lanyard for Sample 1</p> <p>Mode 10: Bluetooth Link 1 + WLAN (5G) Link + MPEG4(Run Color Bar) + Charging from cradle + Lanyard for Sample1</p> <p>Mode 11: Bluetooth Idle 1 + WLAN 6E Idle + MPEG4(Run Color Bar) + Battery + USB Cable (Data Link with Notebook) + PC/NB USB Data Link to EUT (SD) + Lanyard for Sample2</p> <p>Mode 12: Bluetooth Idle 1 + WLAN 6E Idle + scanning + Battery + USB Cable (Data Link with Notebook) + EUT (eMMC) USB Data Link to PC/NB + Lanyard for Sample3</p> <p>Mode 13: Bluetooth Idle 1 + WLAN 6E Idle + scanning + Battery + USB Cable (Data Link with Notebook) + EUT (eMMC) USB Data Link to PC/NB + Lanyard for Sample4</p> <p>Mode 14: Bluetooth Idle 1 + WLAN 6E Idle + scanning + Battery + USB Cable (Data Link with Notebook) + EUT (eMMC) USB Data Link to PC/NB + Lanyard for Sample5</p> <p>Mode 15: Bluetooth Idle 1 + WLAN 6E Idle + Stock With scanning + Battery + USB Cable (Data Link with Notebook) + EUT (eMMC) USB Data Link to PC/NB + Lanyard for Sample3</p>
<p>Remark:</p> <ol style="list-style-type: none"> 1. The worst case of AC is mode 9; only the test data of this mode is reported. 2. The worst case of RE is mode 12; 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. Bluetooth Idle 1 is a Bluetooth module 1 which could normal idle 5. Bluetooth Idle 2 is a Bluetooth module 2 which could work in switch OFF state 	

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.	WLAN AP	D-link	DIR-655	KA21R655B1	N/A	Unshielded,1.8m
2.	WLAN AP	TP-Link	TL-WDR5600	N/A	N/A	Unshielded,1.8m
3.	Bluetooth Earphone	Lenovo	thinkplus-BH3	N/A	N/A	N/A
4.	Earphone	moto	LYEJ02LM	N/A	N/A	N/A
5.	Notebook	Lenovo	G480	QDS-BRCM1050I	N/A	shielded cable DC O/P 1.8m , Unshielded AC I/P cable 1.8m
6.	Notebook	Lenovo	V130-14IKB001	N/A	N/A	N/A
7.	SD Card	SanDisk	Uitra	N/A	N/A	N/A
8.	SD Card	Kingston	8GB	N/A	N/A	N/A
9.	Hard Disk	Lenovo	F310	DoC	N/A	Shielded, 1.2m
10.	Hard disk	Ultra	WD	N/A	N/A	N/A
11.	USB Cable	N/A	N/A	N/A	N/A	N/A
12.	Adapter	N/A	N/A	N/A	N/A	N/A
13.	Cradle	N/A	N/A	N/A	N/A	N/A
14.	NFC Card	N/A	N/A	N/A	N/A	N/A
15.	Adapter for Cradle	N/A	N/A	N/A	N/A	N/A

2.4. EUT Operation Test Setup

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 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.

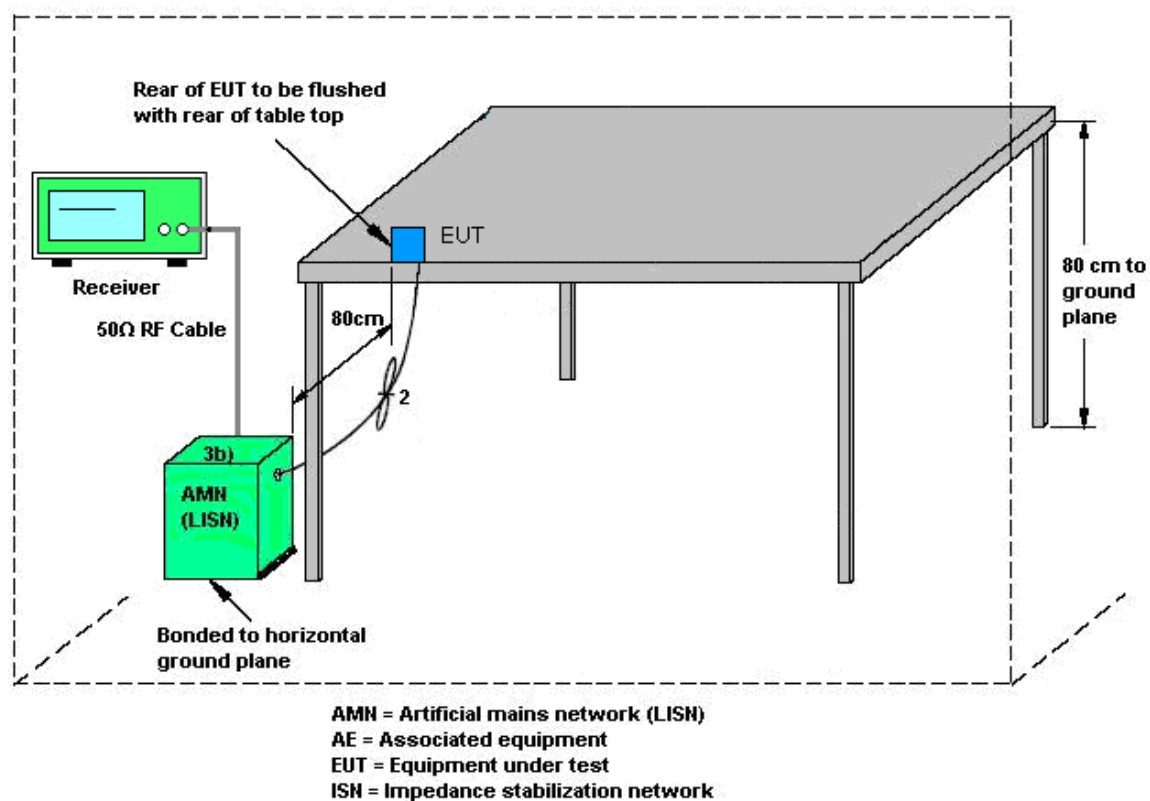
3.1.2 Measuring Instruments

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

3.1.3 Test Procedure

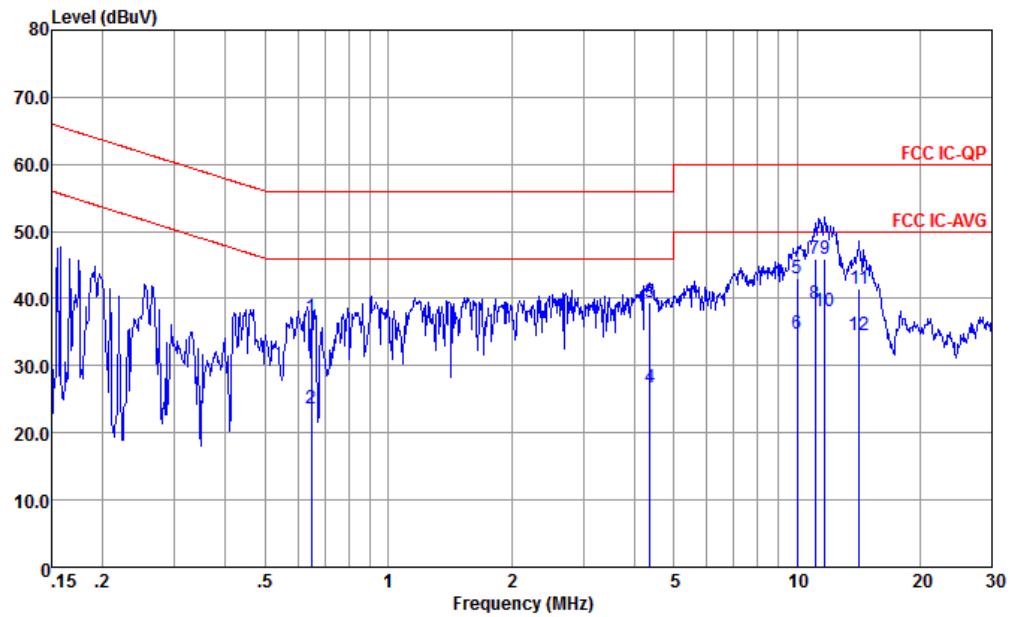
1. The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least 80 centimeters from any other grounded conducting surface.
2. Connect EUT to the power mains through a line impedance stabilization network (LISN).
3. All the support units are connecting to the other LISN.
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	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.		

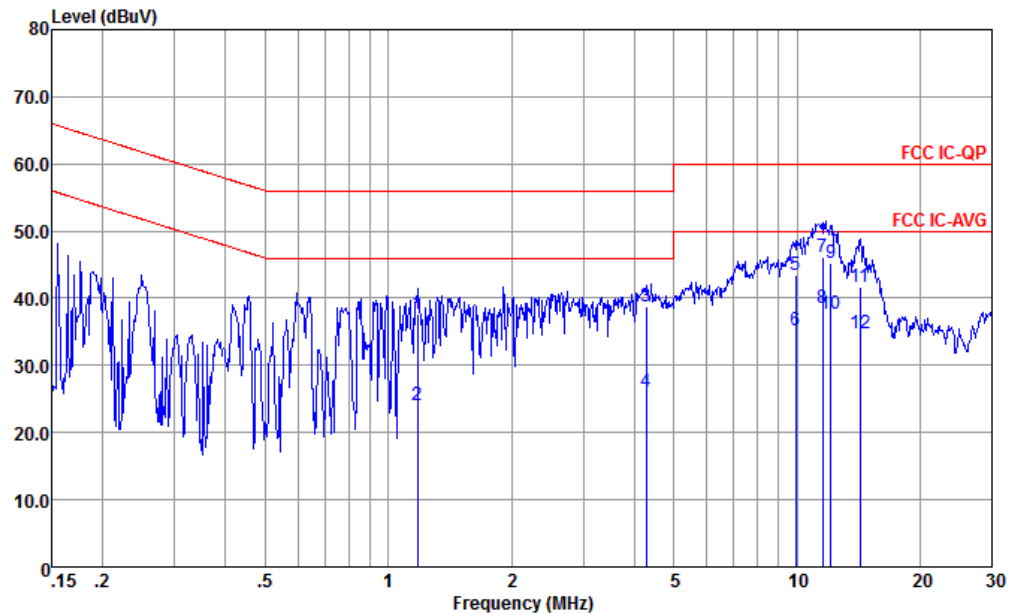


Site : CO01-KS
Condition : FCC IC-QP LISN-060105-L 2024 LINE

	Freq	Level	Over	Limit	Read	LISN	Cable	Remark
	MHz	dBuV	Limit	Line	Level	Factor	Loss	
			dB	dBuV	dBuV	dB	dB	
1	0.647	37.22	-18.78	56.00	27.20	-0.14	10.16	QP
2	0.647	23.52	-22.48	46.00	13.50	-0.14	10.16	Average
3	4.361	39.46	-16.54	56.00	29.60	-0.20	10.06	QP
4	4.361	26.76	-19.24	46.00	16.90	-0.20	10.06	Average
5	10.019	42.91	-17.09	60.00	32.50	-0.24	10.65	QP
6	10.019	34.71	-15.29	50.00	24.30	-0.24	10.65	Average
7	11.080	45.81	-14.19	60.00	35.20	-0.23	10.84	QP
8 *	11.080	39.21	-10.79	50.00	28.60	-0.23	10.84	Average
9	11.683	45.92	-14.08	60.00	35.20	-0.22	10.94	QP
10	11.683	38.02	-11.98	50.00	27.30	-0.22	10.94	Average
11	14.213	41.47	-18.53	60.00	30.50	-0.19	11.16	QP
12	14.213	34.57	-15.43	50.00	23.60	-0.19	11.16	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 2024 NEUTRAL

	Freq	Level	Over	Limit	Read	LISN	Cable	Remark
	MHz	dBuV	Limit	Line	Level	Factor	Loss	
			dB	dBuV	dBuV	dB	dB	
1	1.178	37.70	-18.30	56.00	27.79	-0.18	10.09	QP
2	1.178	24.10	-21.90	46.00	14.19	-0.18	10.09	Average
3	4.269	38.75	-17.25	56.00	28.90	-0.21	10.06	QP
4	4.269	26.15	-19.85	46.00	16.30	-0.21	10.06	Average
5	9.913	43.56	-16.44	60.00	33.20	-0.28	10.64	QP
6	9.913	35.16	-14.84	50.00	24.80	-0.28	10.64	Average
7	11.559	46.17	-13.83	60.00	35.50	-0.25	10.92	QP
8 *	11.559	38.47	-11.53	50.00	27.80	-0.25	10.92	Average
9	12.124	45.27	-14.73	60.00	34.50	-0.23	11.00	QP
10	12.124	37.67	-12.33	50.00	26.90	-0.23	11.00	Average
11	14.288	41.77	-18.23	60.00	30.80	-0.19	11.16	QP
12	14.288	34.87	-15.13	50.00	23.90	-0.19	11.16	Average

Note:

1. $\text{Level(dB}\mu\text{V)} = \text{Read Level(dB}\mu\text{V)} + \text{LISN Factor(dB)} + \text{Cable Loss(dB)}$
2. $\text{Over Limit(dB)} = \text{Level(dB}\mu\text{V)} - \text{Limit Line(dB}\mu\text{V)}$

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

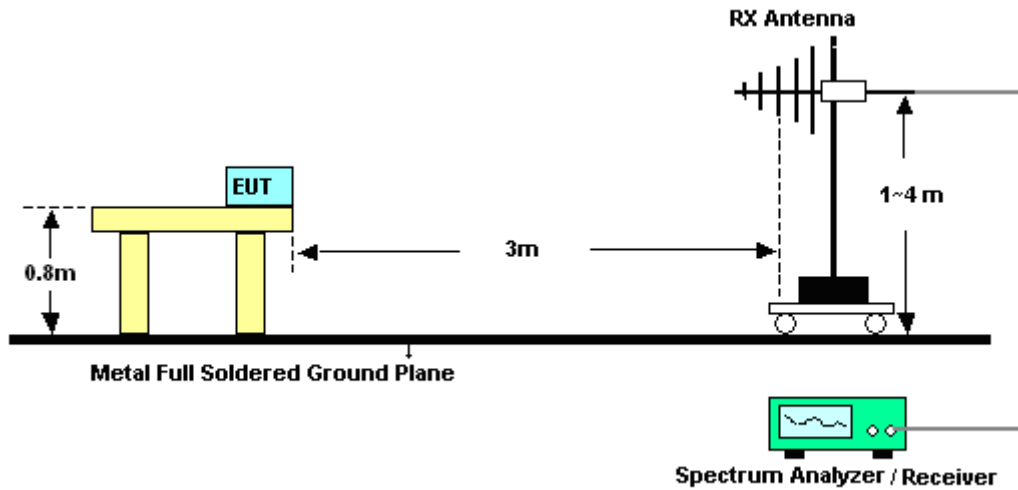
The measuring equipment is listed in the section 4 of this test report.

3.2.3. Test Procedures

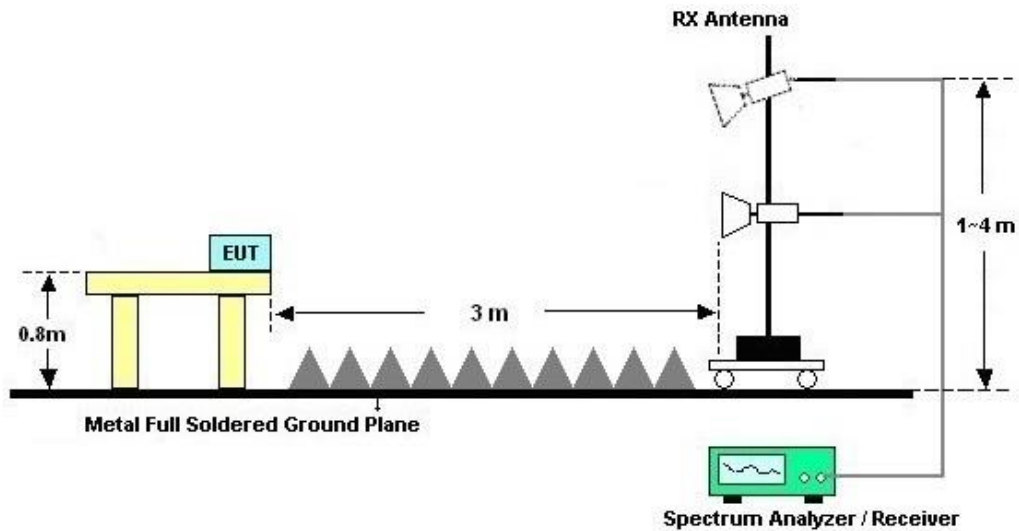
1. The EUT was placed on a turntable with 0.8 meter above ground.
2. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
3. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
4. The table was rotated 360 degrees to determine the position of the highest radiation.
5. 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.
6. 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.
7. 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).
8. 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.
9. Emission level (dBμV/m) = 20 log Emission level (μV/m)
10. Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level
11. 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.

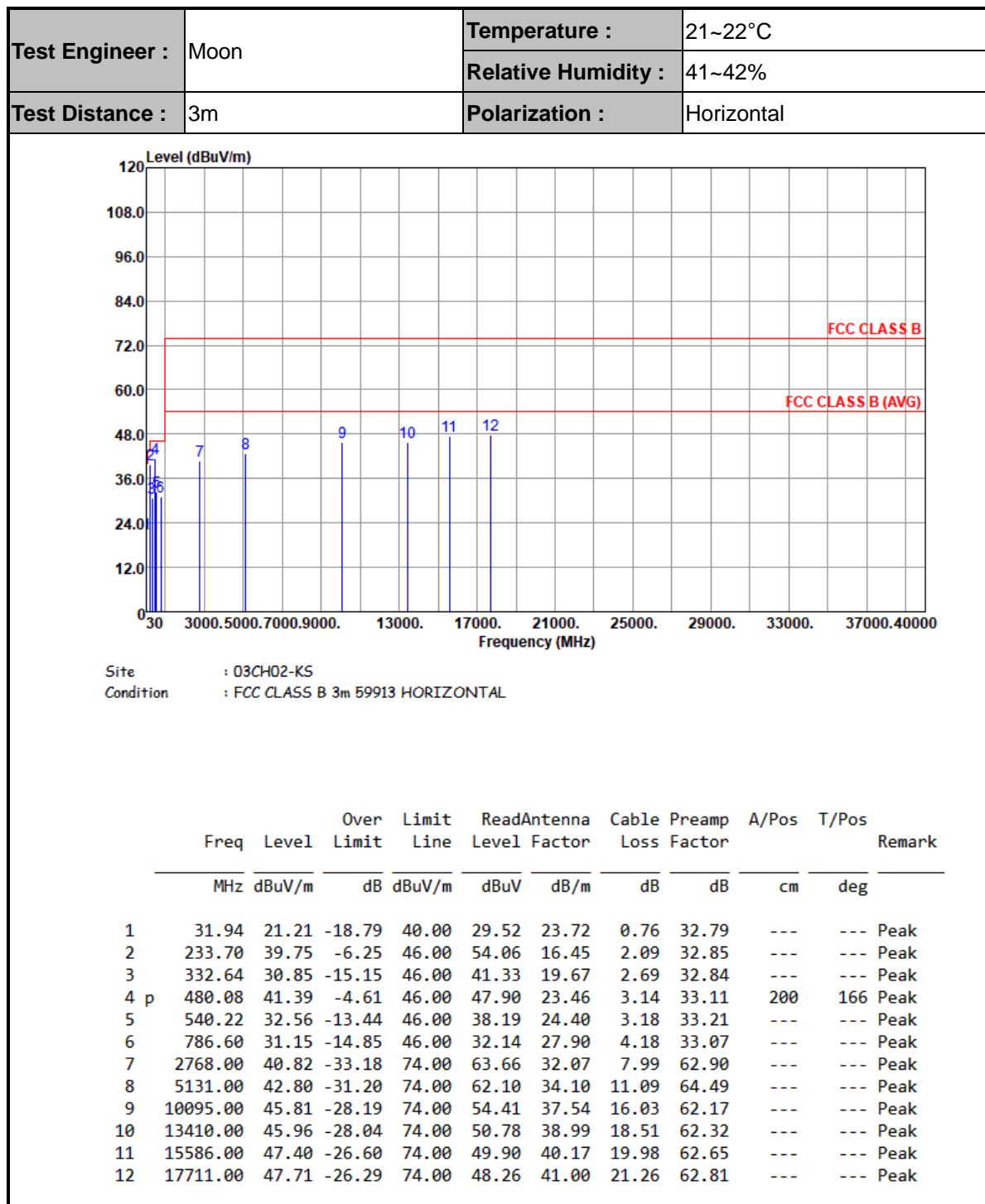
3.2.4. Test Setup of Radiated Emission

For radiated emissions from 30MHz to 1GHz



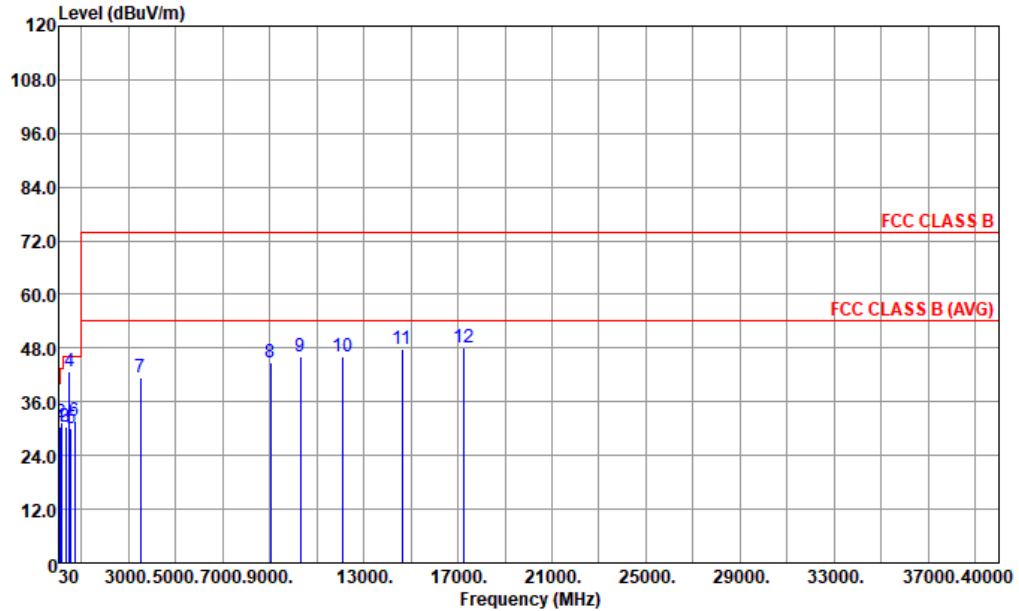
For radiated emissions above 1GHz



3.2.5. Test Result of Radiated Emission




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



	Freq	Level	Over Limit	Limit Line	ReadAntenna Level Factor	Cable Loss	Preamp Factor	A/Pos	T/Pos	Remark	
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	100.81	30.52	-12.98	43.50	45.63	16.06	1.48	32.65	---	---	Peak
2	134.76	31.30	-12.20	43.50	44.75	17.53	1.71	32.69	---	---	Peak
3	326.82	30.56	-15.44	46.00	41.23	19.51	2.66	32.84	---	---	Peak
4 p	480.08	42.68	-3.32	46.00	49.19	23.46	3.14	33.11	100	112	Peak
5	556.71	30.20	-15.80	46.00	34.14	26.04	3.25	33.23	---	---	Peak
6	726.46	31.84	-14.16	46.00	33.58	27.46	4.02	33.22	---	---	Peak
7	3499.00	41.50	-32.50	74.00	63.22	32.70	9.03	63.45	---	---	Peak
8	9024.00	44.87	-29.13	74.00	56.96	36.20	14.89	63.18	---	---	Peak
9	10316.00	46.06	-27.94	74.00	54.33	37.63	16.17	62.07	---	---	Peak
10	12084.00	46.11	-27.89	74.00	50.47	38.83	17.64	60.83	---	---	Peak
11	14617.00	47.64	-26.36	74.00	51.09	39.55	19.29	62.29	---	---	Peak
12	17269.00	48.30	-25.70	74.00	48.91	41.05	21.12	62.78	---	---	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	R&S	ESR7	101403	9kHz~7GHz;Max 30dBm	Oct. 11, 2023	Jul. 18, 2024	Oct. 10, 2024	Radiation (03CH02-KS)
EXA Spectrum Analyzer	Keysight	N9010A	MY55370528	10Hz~44G,MAX 30dB	Oct. 11, 2023	Jul. 18, 2024	Oct. 10, 2024	Radiation (03CH02-KS)
Bilog Antenna	TeseQ	CBL6111D	44483	30MHz~1GHz	Dec. 06, 2023	Jul. 18, 2024	Dec. 05, 2024	Radiation (03CH02-KS)
Double Ridge Horn Antenna	ETS-Lindgren	3117	75957	1GHz~18GHz	Oct. 23, 2023	Jul. 18, 2024	Oct. 22, 2024	Radiation (03CH02-KS)
SHF-EHF Horn	Com-power	AH-840	101070	18GHz~40GHz	Jan. 27, 2024	Jul. 18, 2024	Jan. 26, 2025	Radiation (03CH02-KS)
Amplifier	EM	EM18G40GGA	060852	18~40GHz	Jan. 02, 2024	Jul. 18, 2024	Jan. 01, 2025	Radiation (03CH02-KS)
Amplifier	SONOMA	310N	413740	9KHz~1GHz	Jan. 03, 2024	Jul. 18, 2024	Jan. 02, 2025	Radiation (03CH02-KS)
Amplifier	EM	EM01G18G	060806	1GHz~18GHz	Oct. 11, 2023	Jul. 18, 2024	Oct. 10, 2024	Radiation (03CH02-KS)
AC Power Source	Chroma	61601	616010002473	N/A	NCR	Jul. 18, 2024	NCR	Radiation (03CH02-KS)
Turn Table	MF	MF7802	N/A	0~360 degree	NCR	Jul. 18, 2024	NCR	Radiation (03CH02-KS)
Antenna Mast	MF	MF7802	N/A	1 m~4 m	NCR	Jul. 18, 2024	NCR	Radiation (03CH02-KS)
EMI Receiver	R&S	ESCI7	100768	9kHz~7GHz;	Apr. 18, 2024	Jul. 21, 2024	Apr. 17, 2025	Conduction (CO01-KS)
AC LISN (for auxiliary equipment)	MessTec	AN3016	060103	9kHz~30MHz	Oct. 11, 2023	Jul. 21, 2024	Oct. 10, 2024	Conduction (CO01-KS)
AC LISN	MessTec	AN3016	060105	9kHz~30MHz	Apr. 18, 2024	Jul. 21, 2024	Apr. 17, 2025	Conduction (CO01-KS)
AC Power Source	Chroma	61602	ABP000000811	AC 0V~300V, 45Hz~1000Hz	Oct. 11, 2023	Jul. 21, 2024	Oct. 10, 2024	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 (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	6.04 dB
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Uncertainty of Radiated Emission Measurement (1000 MHz ~ 18000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.12 dB
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Uncertainty of Radiated Emission Measurement (18000 MHz ~ 40000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.30 dB
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