



FCC Test Report

APPLICANT : RealWear, Inc.
EQUIPMENT : Head Mounted Tablet
BRAND NAME : realwear
MODEL NAME : A31G
FCC ID : 2AJOR3101GAA
STANDARD : 47 CFR Part 15 Subpart B
CLASSIFICATION : Certification
TEST DATE(S) : Jun. 30, 2025 ~ Jul. 04, 2025

We, Sporton International Inc. (ShenZhen), 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. (ShenZhen), the test report shall not be reproduced except in full.

Fly Liang



Approved by: Fly Liang

Sportun International Inc. (ShenZhen)

1/F, 2/F, Bldg 5, Shiling Industrial Zone, Xinwei Village, Xili, Nanshan, Shenzhen, 518055

People's Republic of China



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REVISION HISTORY



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 4.06 dB at 0.15 MHz
3.2	15.109	Radiated Emission	< 15.109 limits	PASS	Under limit 4.07 dB at 66.86 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/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

RealWear, Inc.

600 Hatheway Road, Vancouver, WA, 98661

1.2. Manufacturer

RealWear, Inc.

600 Hatheway Road, Vancouver, WA, 98661

1.3. Product Feature of Equipment Under Test

Product Feature	
Equipment	Head Mounted Tablet
Brand Name	realwear
Model Name	A31G
FCC ID	2AJOR3101GAA
EUT supports Radios application	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
SN Code	Conduction / Radiation: D1E6R414D2563886
HW Version	A
SW Version	1.0.5-15-T.ARC3.G
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 Frequency	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
Rx Frequency	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
Antenna Type	WLAN : PIFA Antenna Bluetooth : PIFA 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) Bluetooth LE : GFSK Bluetooth (1Mbps) : GFSK Bluetooth (2Mbps) : $\pi/4$ -DQPSK Bluetooth (3Mbps) : 8-DPSK

1.5. Modification of EUT

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



1.6. Test Location

Sportun International Inc. (Shenzhen) is accredited to ISO/IEC 17025:2017 by American Association for Laboratory Accreditation with Certificate Number 5145.01.

Test Firm	Sportun International Inc. (Shenzhen)		
Test Site Location	101, 1st Floor, Block B, Building 1, No. 2, Tengfeng 4th Road, Fenghuang Community, Fuyong Street, Baoan District, Shenzhen City, Guangdong Province 518103 People's Republic of China TEL: +86-755-86066985		
Test Site No.	Sportun Site No.	FCC Designation No.	FCC Test Firm Registration No.
	CO02-SZ ; 03CH05-SZ	CN1256	421272

1.7. Test Software

Item	Site	Manufacturer	Name	Version
1.	03CH05-SZ	AUDIX	E3	6.2009-8-24
2.	CO02-SZ	AUDIX	E3	6.120613b

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

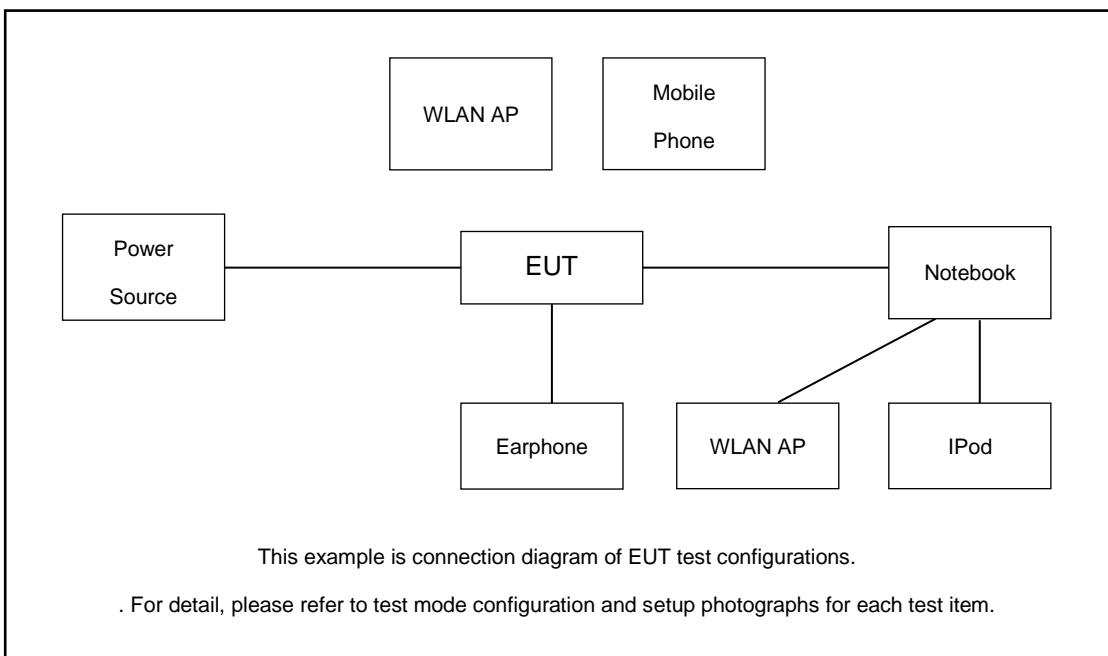
2.1. Test Mode

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 + WLAN (2.4G) Idle + Front Camera(Recording) + Battery + USB Cable (Charging from Adapter) Mode 2: Bluetooth Idle + WLAN (5G) Idle + Rear Camera(Recording) + Battery + USB Cable (NB USB Data Link to EUT (eMMC)) Mode 3: Bluetooth Idle + WLAN (2.4G) Idle + MPEG4(Run Color Bar) + Battery + USB Cable (EUT (eMMC) USB Data Link to NB)
Radiated Emissions	Mode 1: Bluetooth Idle + WLAN (2.4G) Idle + Front Camera(Recording) + Battery + USB Cable (Charging from Adapter) Mode 2: Bluetooth Idle + WLAN (5G) Idle + Rear Camera(Recording) + Battery + USB Cable (NB USB Data Link to EUT (eMMC)) Mode 3: Bluetooth Idle + WLAN (2.4G) Idle + MPEG4(Run Color Bar) + Battery + USB Cable (EUT (eMMC) USB Data Link to NB) Mode 4: Bluetooth Idle + WLAN (2.4G) Idle + MPEG4(Run Color Bar) + Earphone + Battery
Remark:	
<ol style="list-style-type: none">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 3; only the test data of this mode is reported.3. Data Link with Notebook means data application transferred mode between EUT and Notebook.	

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	ASUSTek	RT-AC66U	MSQ-RTAC66U	N/A	Unshielded, 1.8m
2.	WLAN AP	Dlink	DIR-820L	KA2IR820LA1	N/A	Unshielded, 1.8m
3.	Notebook	DELL	Latiude 3400	N/A	N/A	Unshielded, 1.8m
4.	Notebook	Thinkpad	Thinkpad E14	N/A	N/A	N/A
5.	Earphone	Beisi	NA	NA	N/A	N/A
6.	Mobile phone	Yijia	A5010	NA	N/A	Mobile phone
7.	IPod	Apple	MC525 ZP/A	Fcc DoC	Shielded, 1.0m	N/A
8.	IPod	apple	MC69029/A	N/A	N/A	N/A
9.	Adapter	realwear	N/A	N/A	N/A	N/A



2.4. EUT Operation Test Setup

The EUT was attached to the Mobile phone 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 record images.
3. Turn on MPEG4 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.

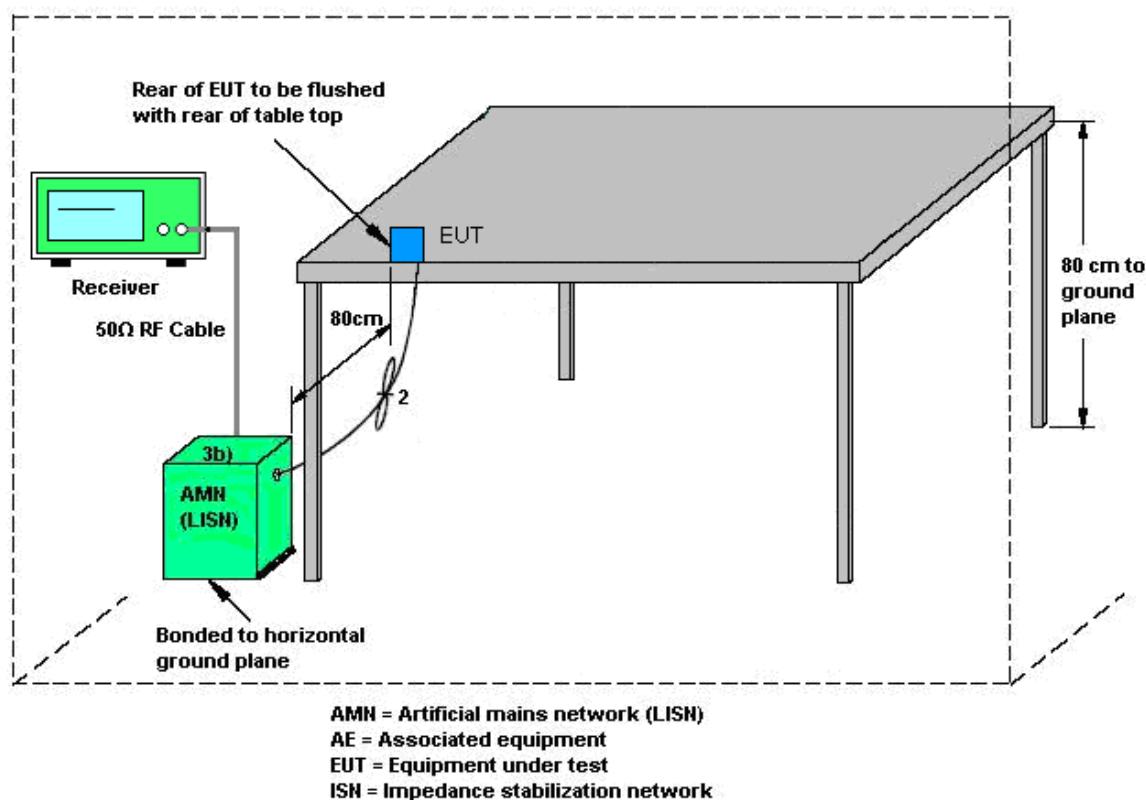
3.1.2 Measuring Instruments

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

3.1.3 Test Procedure

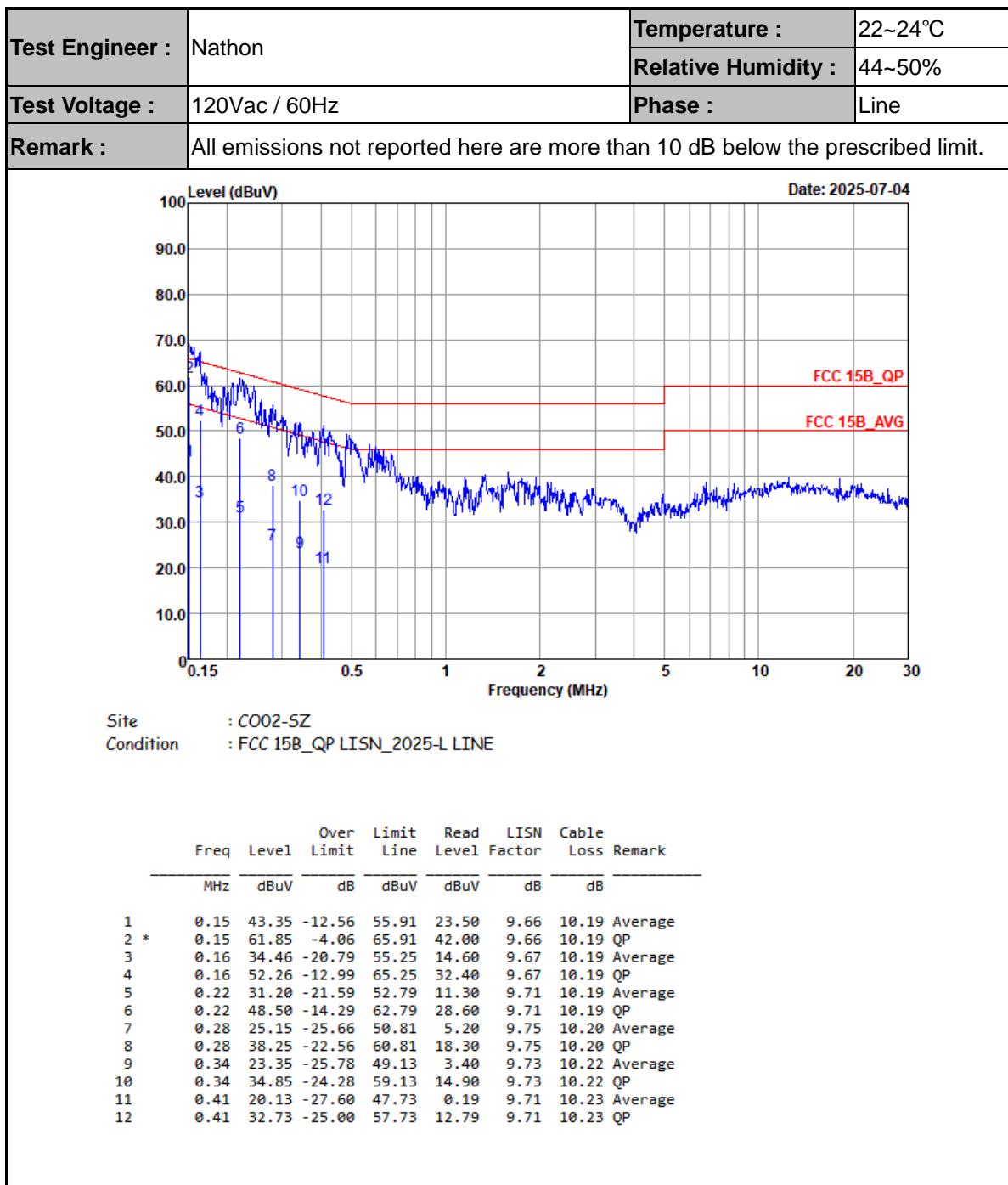
1. The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least 80 centimeters from any other grounded conducting surface.
2. Connect EUT to the power mains through a line impedance stabilization network (LISN).
3. All the support units are connecting to the other LISN.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

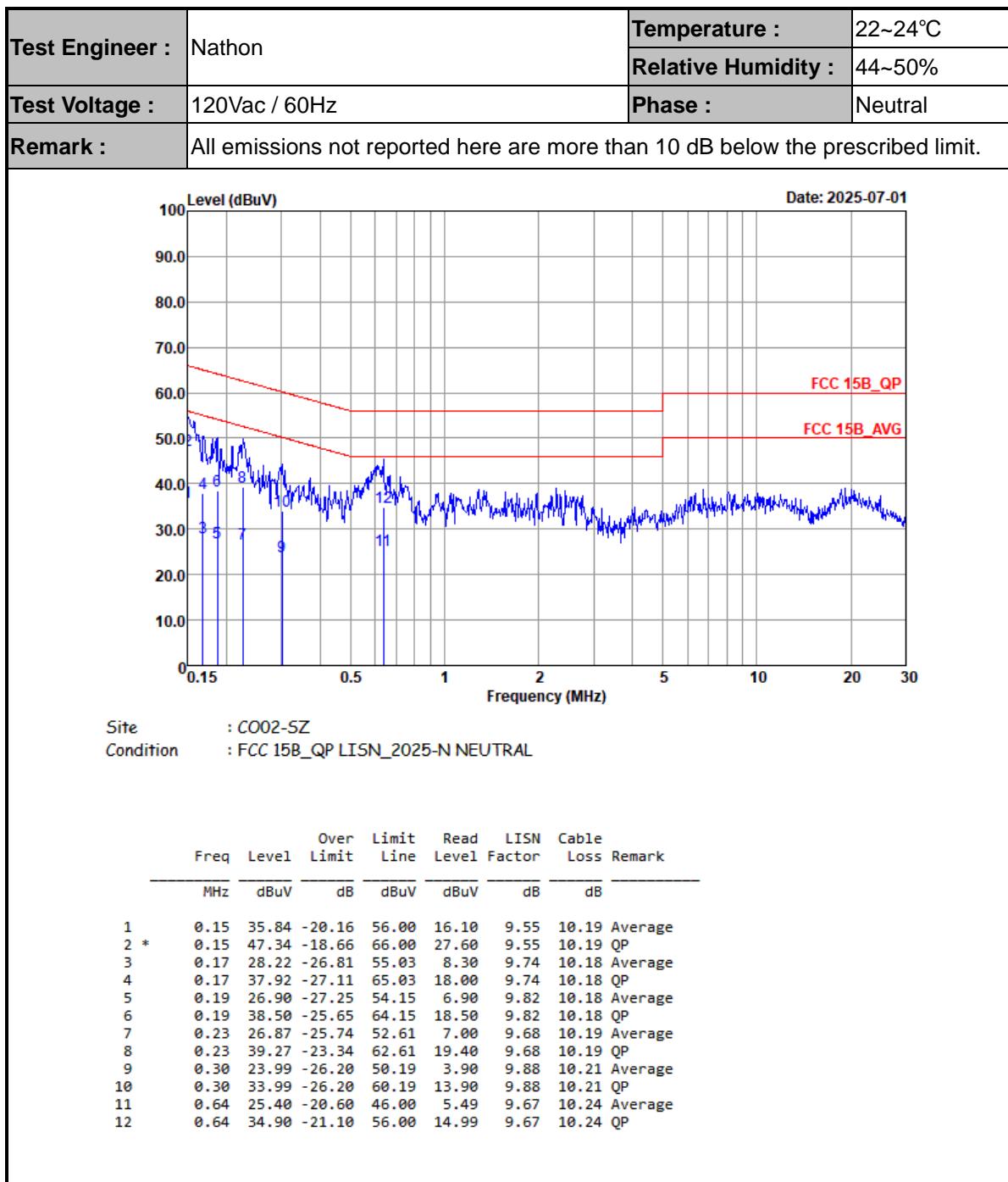
3.1.4 Test Setup





3.1.5 Test Result of AC Conducted Emission





Note:

1. Level(dB μ V) = Read Level(dB μ V) + LISN Factor(dB) + Cable Loss(dB)
2. Over Limit(dB) = Level(dB μ V) – Limit Line(dB μ 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.

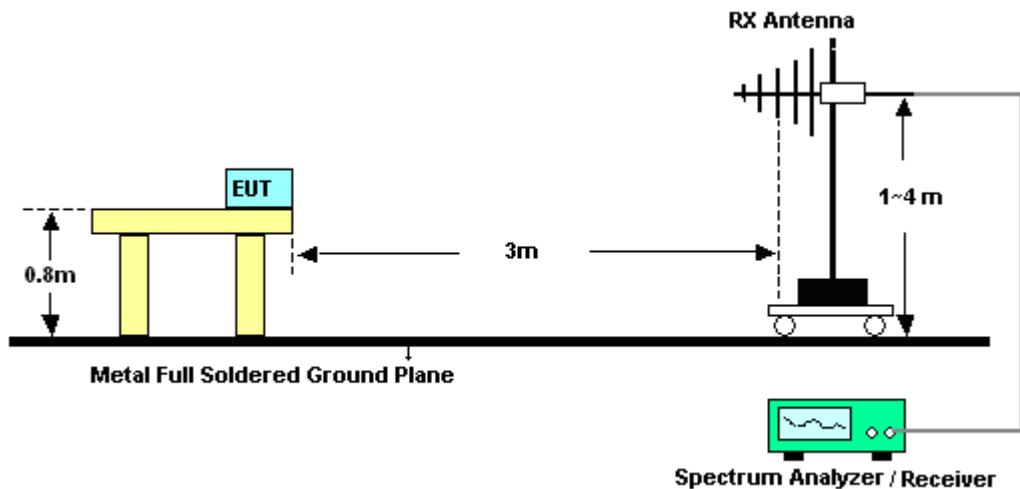


3.2.3. Test Procedures

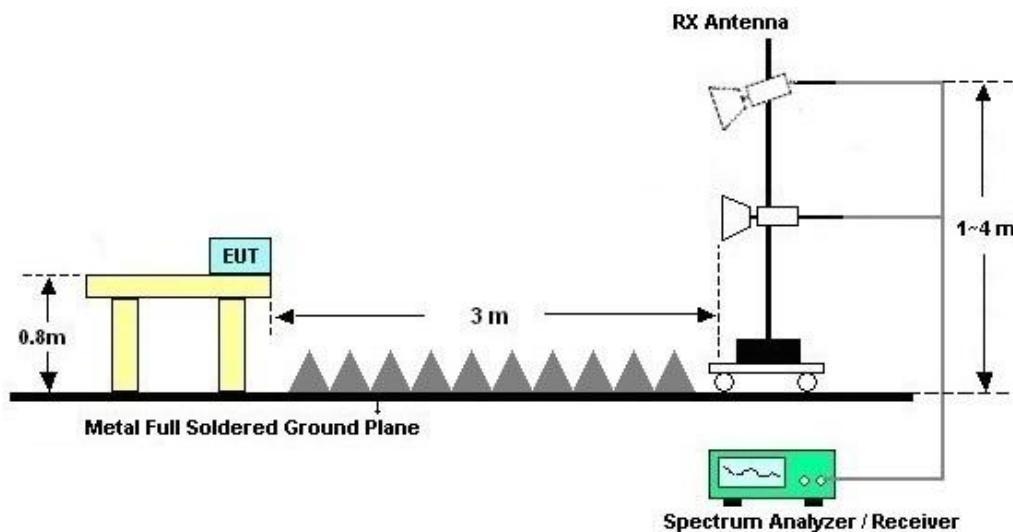
1. The EUT was placed on a turntable with 0.8 meter above ground.
2. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
3. The table was rotated 360 degrees to determine the position of the highest radiation.
4. The antenna 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 :	TaoZhang	Temperature :	24~25°C																																					
		Relative Humidity :	48~49%																																					
Test Distance :	3m	Polarization :	Horizontal																																					
Remark :	#8 is RF signal which comes from WLAN Access Point used to connect the EUT, and which can be ignored.																																							
Site : 03CH05-SZ Condition : FCC CLASS-B 3m VULB9168-01001 HORIZONTAL																																								
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		Limit	Line	Level	Factor	Loss	Factor																																	
MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg																															
1	66.86	32.93	-7.07	40.00	48.14	17.90	1.82	34.93	---	--- Peak																														
2	161.92	25.09	-18.41	43.50	39.15	18.45	2.39	34.90	---	--- Peak																														
3	256.98	29.91	-16.09	46.00	43.68	17.98	3.04	34.79	---	--- Peak																														
4	399.57	27.73	-18.27	46.00	37.50	21.62	3.31	34.70	---	--- Peak																														
5	576.11	27.70	-18.30	46.00	33.30	25.30	3.55	34.45	---	--- Peak																														
6	799.21	32.73	-13.27	46.00	33.49	28.96	4.38	34.10	---	--- Peak																														
7	1968.00	42.64	-31.36	74.00	57.63	31.26	6.87	53.12	---	--- Peak																														
8 *	2437.00	67.00			80.47	32.67	7.22	53.36	---	--- Peak																														
9	4248.00	45.41	-28.59	74.00	54.36	34.50	9.65	53.10	---	--- Peak																														
10	7936.00	45.88	-28.12	74.00	50.36	36.67	11.45	52.60	---	--- Peak																														
11	9351.00	46.83	-27.17	74.00	48.31	37.40	12.59	51.47	---	--- Peak																														
12	13068.00	46.65	-27.35	74.00	45.09	39.64	14.17	52.25	---	--- Peak																														
13	17172.00	46.87	-27.13	74.00	42.36	42.40	15.24	53.13	---	--- Peak																														

 | | | | | | | | | |



Test Engineer :	TaoZhang	Temperature :		24~25°C																																																																																																																																																																																			
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2	161.92	28.00	-15.50	43.50	42.06	18.45	2.39	34.90	---	---	Peak																																																																																																																																																																												
3	239.52	29.66	-16.34	46.00	44.17	17.35	2.96	34.82	---	---	Peak																																																																																																																																																																												
4	399.57	30.42	-15.58	46.00	40.19	21.62	3.31	34.70	---	---	Peak																																																																																																																																																																												
5	699.30	30.23	-15.77	46.00	33.45	27.44	3.74	34.40	---	---	Peak																																																																																																																																																																												
6	800.18	35.05	-10.95	46.00	35.79	28.97	4.39	34.10	---	---	Peak																																																																																																																																																																												
7	2016.00	43.72	-30.28	74.00	57.94	31.93	6.96	53.11	---	---	Peak																																																																																																																																																																												
8	2437.00	64.84			78.31	32.67	7.22	53.36	---	---	Peak																																																																																																																																																																												
9	5120.00	44.55	-29.45	74.00	52.41	35.46	9.46	52.78	---	---	Peak																																																																																																																																																																												
10	8560.00	46.28	-27.72	74.00	49.29	36.78	12.23	52.02	---	---	Peak																																																																																																																																																																												
11	9945.00	46.96	-27.04	74.00	47.42	38.10	13.38	51.94	---	---	Peak																																																																																																																																																																												
12	12960.00	45.20	-28.80	74.00	43.82	39.50	14.13	52.25	---	---	Peak																																																																																																																																																																												
13	17901.00	47.17	-26.83	74.00	41.81	43.60	15.28	53.52	---	---	Peak																																																																																																																																																																												

Note:

1. Level(dB μ V/m) = Read Level(dB μ V) + Antenna Factor(dB/m) + Cable Loss(dB) - Preamp Factor(dB)
2. Over Limit(dB) = Level(dB μ V/m) - Limit Line(dB μ V/m)



4. List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
EMI Receiver	R&S	ESR7	102297	9kHz~7GHz;	Jul. 03, 2024	Jul. 01, 2025~ Jul. 04, 2025	Jul. 02, 2025	Conduction (CO02-SZ)
					Jul. 02, 2025		Jul. 01, 2026	
AC LISN	R&S	ENV216	101499	9kHz~30MHz	Jul. 03, 2024	Jul. 01, 2025~ Jul. 04, 2025	Jul. 02, 2025	Conduction (CO02-SZ)
					Jul. 02, 2025		Jul. 01, 2026	
AC Power Source	CHROMA	61601	616010002470	100Vac~250Vac	Dec.25, 2024	Jul. 01, 2025~ Jul. 04, 2025	Dec. 24, 2025	Conduction (CO02-SZ)
EMI Test Receiver	R&S	ESR7	102261	9kHz~7GHz	Apr. 02, 2025	Jun. 30, 2025	Apr. 01, 2026	Radiation (03CH05-SZ)
EXA Spectrum Analyzer	KEYSIGHT	N9010B	MY59071191	10Hz~44GHz	Apr. 02, 2025	Jun. 30, 2025	Apr. 01, 2026	Radiation (03CH05-SZ)
Log-periodic Antenna	SCHWARZBECK	VULB 9168	01001	20MHz~1.5GHz	Jul. 08, 2024	Jun. 30, 2025	Jul. 07, 2025	Radiation (03CH05-SZ)
Amplifier	EM Electronics	EM330	060756	0.01Hz~3000MHz	Apr. 02, 2025	Jun. 30, 2025	Apr. 01, 2026	Radiation (03CH05-SZ)
Double Ridge Horn Antenna	ETS-Lindgren	3117	00119436	1GHz~18GHz	Jul. 04, 2024	Jun. 30, 2025	Jul. 03, 2025	Radiation (03CH05-SZ)
HF Amplifier	EM Electronics	EM01G18GA	060779	1GHz~18GHz	Dec. 25, 2024	Jun. 30, 2025	Dec. 24, 2025	Radiation (03CH05-SZ)
HF Amplifier	EM Electronics	EM18G40G	060778	18GHz~40GHz	Apr. 03, 2025	Jun. 30, 2025	Apr. 02, 2026	Radiation (03CH05-SZ)
Horn Antenna	SCHWARZBECK	BBHA9170	00983	15GHz~40GHz	Apr. 03, 2025	Jun. 30, 2025	Apr. 02, 2027	Radiation (03CH05-SZ)
AC Power Source	APC	AFV-S-600	F119050013	N/A	Oct. 14, 2024	Jun. 30, 2025	Oct. 13, 2025	Radiation (03CH05-SZ)
Turn Table	EMEC	T-200-S-1	060925-T	0~360 degree	NCR	Jun. 30, 2025	NCR	Radiation (03CH05-SZ)
Antenna Mast	EMEC	MBS-400-1	060927	1 m~4 m	NCR	Jun. 30, 2025	NCR	Radiation (03CH05-SZ)

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))	2.5 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))	4.2 dB
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Uncertainty of Radiated Emission Measurement (1000 MHz ~ 18000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	5.1 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))	4.1 dB
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