

Shenzhen HTT Technology Co., Ltd.

Report No.: HTT202409140F03

TEST Report

Applicant: YEAHER INC.

Address of Applicant: 51 Steel Dr, Unit A, New Castle, Delaware, 19720

Manufacturer: Nimo Direct Inc.

Address of 51 Steel Dr, Unit A, New Castle, Delaware, 19720

Manufacturer:

Equipment Under Test (EUT)

Product Name: Portable Computer

Model No.: N171B

Series model: N171R, N171S, N171G

Trade Mark: N/A

FCC ID: 2BEMH-N171S

Applicable standards: FCC CFR Title 47 Part 15 Subpart C Section 15.247

Date of sample receipt: Sep. 06, 2024

Date of Test: Sep. 06, 2024 ~ Sep. 19, 2024

Date of report issued: Sep. 19, 2024

Test Result: PASS *

^{*} In the configuration tested, the EUT complied with the standards specified above.



1. Version

Version No.	Date	Description
00	Sep. 19, 2024	Original

Tested/ Prepared By	Heber He Date:	Sep. 19, 2024
	Project Engineer	
Check By:	Bruce Zhu Date:	Sep. 19, 2024
	Reviewer	
Approved By :	Kein Yang HTT Date:	Sep. 19, 2024
	Authorized Signature	



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3. Test Summary

Test Item	Section in CFR 47	Result
Antenna requirement	15.203/15.247 (c)	Pass
AC Power Line Conducted Emission	15.207	Pass
Conducted Output Power	15.247 (b)(3)	Pass
Channel Bandwidth	15.247 (a)(2)	Pass
Power Spectral Density	15.247 (e)	Pass
Band Edge	15.247(d)	Pass
Spurious Emission	15.205/15.209	Pass

Remarks:

- 1. Pass: The EUT complies with the essential requirements in the standard.
- 2. Test according to ANSI C63.10:2013

Measurement Uncertainty

Test Item	Frequency Range	Measurement Uncertainty	Notes
Radiated Emission	30~1000MHz	4.37 dB	(1)
Radiated Emission	1~18GHz	5.40 dB	(1)
Radiated Emission	18-40GHz	5.45 dB	(1)
Conducted Disturbance	0.15~30MHz	2.68 dB	(1)
Note (1): The measurement unce	ertainty is for coverage factor of ka	=2 and a level of confidence of 9	95%.



4. General Information

4.1. General Description of EUT

The Control Booth Parish of Edit				
Product Name:	Portable Computer			
Model No.:	N171B			
Series model:	N171R, N171S, N171G			
Test sample(s) ID:	HTT202409140-1(Engineer sample) HTT202409140-2(Normal sample)			
Operation frequency	2402~2480 MHz			
Number of Channels	40			
Modulation Type	GFSK			
Channel separation	2MHz			
Antenna Type:	FPC Antenna			
Antenna Gain:	4.3 dBi			
Power Supply:	DC 20.0V From External Circuit			
Adapter Information:	MODEL:A869-200325C-US1 INPUT:100-240V~ 50/60Hz 1.7A OUTPUT:5.0V-3A/ 9.0V-3A/ 12.0V-3A/ 15.0V-3A/ 20.0V-3.25A			



Channel	Frequency(MHz)	Channel	Frequency(MHz)
0	2402	20	2442
1	2404	21	2444
2	2406	22	2446
3	2408	23	2448
4	2410	24	2450
5	2412	25	2452
6	2414	26	2454
7	2416	27	2456
8	2418	28	2458
9	2420	29	2460
10	2422	30	2462
11	2424	31	2464
12	2426	32	2466
13	2428	33	2468
14	2430	34	2470
15	2432	35	2472
16	2434	36	2474
17	2436	37	2476
18	2438	38	2478
19	2440	39	2480

Note:

In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

Channel	Frequency
The lowest channel	2402MHz
The middle channel	2440MHz
The Highest channel	2480MHz



4.2. Test mode

Transmitting mode Keep the EUT in continuously transmitting mode.

Remark: During the test, the test voltage was tuned from 85% to 115% of the nominal rated supply voltage, and found that the worst case was under the nominal rated supply condition. So the report just shows that condition's data.

4.3. Description of Support Units

None.

4.4. Deviation from Standards

None.

4.5. Abnormalities from Standard Conditions

None.

4.6. Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

FCC-Registration No.: 779513 Designation Number: CN1319

Shenzhen HTT Technology Co.,Ltd. has been accredited on the US Federal Communications Commission list of test facilities recognized to perform electromagnetic emissions measurements.

A2LA-Lab Cert. No.: 6435.01

Shenzhen HTT Technology Co.,Ltd. has been listed by American Association for Laboratory Accreditation to perform electromagnetic emission measurement.

The 3m-Semi anechoic test site fulfils CISPR 16-1-4 according to ANSI C63.10 and CISPR 16-1-4:2010.

4.7. Test Location

All tests were performed at:

Shenzhen HTT Technology Co.,Ltd.

1F, Building B, Huafeng International Robotics Industrial Park, Hangcheng Road, Nanchang Community, Xixiang Street, Bao'an District, Shenzhen, Guangdong, China

Tel: 0755-23595200 Fax: 0755-23595201

4.8. Additional Instructions

Test Software	Special AT test command provided by manufacturer to Keep the EUT in continuously transmitting mode and hopping mode
Power level setup	Default



5. Test Instruments list

		Tank Familian and		Inventory	Cal.Date	Cal.Due date
Item	Test Equipment	Manufacturer	Model No.	No.	(mm-dd-yy)	(mm-dd-yy)
1	3m Semi- Anechoic Chamber	Shenzhen C.R.T technology co., LTD	9*6*6	HTT-E028	Aug. 10 2024	Aug. 09 2027
2	Control Room	Shenzhen C.R.T technology co., LTD	4.8*3.5*3.0	HTT-E030	Aug. 10 2024	Aug. 09 2027
3	EMI Test Receiver	Rohde&Schwar	ESCI7	HTT-E022	Apr. 26 2024	Apr. 25 2025
4	Spectrum Analyzer	Rohde&Schwar	FSP	HTT-E037	Apr. 26 2024	Apr. 25 2025
5	Coaxial Cable	ZDecl	ZT26-NJ-NJ-0.6M	HTT-E018	Apr. 26 2024	Apr. 25 2025
6	Coaxial Cable	ZDecl	ZT26-NJ-SMAJ-2M	HTT-E019	Apr. 26 2024	Apr. 25 2025
7	Coaxial Cable	ZDecl	ZT26-NJ-SMAJ-0.6M	HTT-E020	Apr. 26 2024	Apr. 25 2025
8	Coaxial Cable	ZDecl	ZT26-NJ-SMAJ-8.5M	HTT-E021	Apr. 26 2024	Apr. 25 2025
9	Composite logarithmic antenna	Schwarzbeck	VULB 9168	HTT-E017	May. 21 2024	May. 20 2025
10	Horn Antenna	Schwarzbeck	BBHA9120D	HTT-E016	May. 20 2024	May. 19 2025
11	Loop Antenna	Zhinan	ZN30900C	HTT-E039	Apr. 26 2024	Apr. 25 2025
12	Horn Antenna	Beijing Hangwei Dayang	OBH100400	HTT-E040	Apr. 26 2024	Apr. 25 2025
13	low frequency Amplifier	Sonoma Instrument	310	HTT-E015	Apr. 26 2024	Apr. 25 2025
14	high-frequency Amplifier	HP	8449B	HTT-E014	Apr. 26 2024	Apr. 25 2025
15	Variable frequency power supply	Shenzhen Anbiao Instrument Co., Ltd	ANB-10VA	HTT-082	Apr. 26 2024	Apr. 25 2025
16	EMI Test Receiver	Rohde & Schwarz	ESCS30	HTT-E004	Apr. 26 2024	Apr. 25 2025
17	Artificial Mains	Rohde & Schwarz	ESH3-Z5	HTT-E006	May. 23 2024	May. 22 2025
18	Artificial Mains	Rohde & Schwarz	ENV-216	HTT-E038	May. 23 2024	May. 22 2025
19	Cable Line	Robinson	Z302S-NJ-BNCJ-1.5M	HTT-E001	Apr. 26 2024	Apr. 25 2025
20	Attenuator	Robinson	6810.17A	HTT-E007	Apr. 26 2024	Apr. 25 2025
21	Variable frequency power supply	Shenzhen Yanghong Electric Co., Ltd	YF-650 (5KVA)	HTT-E032	Apr. 26 2024	Apr. 25 2025
22	Control Room	Shenzhen C.R.T technology co., LTD	8*4*3.5	HTT-E029	Aug. 10 2024	Aug. 09 2027
23	DC power supply	Agilent	E3632A	HTT-E023	Apr. 26 2024	Apr. 25 2025
24	EMI Test Receiver	Agilent	N9020A	HTT-E024	Apr. 26 2024	Apr. 25 2025
25	Analog signal generator	Agilent	N5181A	HTT-E025	Apr. 26 2024	Apr. 25 2025
26	Vector signal generator	Agilent	N5182A	HTT-E026	Apr. 26 2024	Apr. 25 2025
27	Power sensor	Keysight	U2021XA	HTT-E027	Apr. 26 2024	Apr. 25 2025
28	Temperature and humidity meter	Shenzhen Anbiao Instrument Co., Ltd	TH10R	HTT-074	Apr. 28 2024	Apr. 27 2025
29	Radiated Emission Test Software	Farad	EZ-EMC	N/A	N/A	N/A
30	Conducted Emission Test Software	Farad	EZ-EMC	N/A	N/A	N/A
31	RF Test Software	panshanrf	TST	N/A	N/A	N/A



6. Test results and Measurement Data

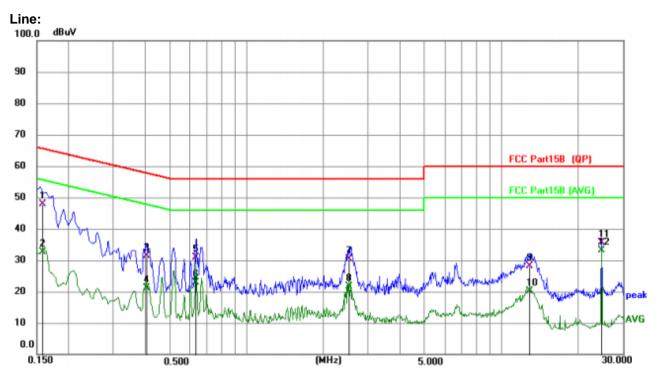
6.1. Conducted Emissions

 Oondacted Ennissions					
Test Requirement:	FCC Part15 C Section 15.207				
Test Method:	ANSI C63.10:2013				
Test Frequency Range:	150KHz to 30MHz				
Class / Severity:	Class B				
Receiver setup:	RBW=9KHz, VBW=	=30KHz, Sv	weep time=auto		
Limit:	Frequency range	o (MHz)	Lim	it (dBuV)	
	Frequency range (MHz)		Quasi-peak		rage
	0.15-0.5		66 to 56*		0 46*
	0.5-5 5-30		56 60		6
	* Decreases with th	e logarithm		0	0
Test setup:		erence Plane	ror the frequency.		
Test procedure:	LISN AUX Equipment Test table/Insulation plane Remark E.U.T. Equipment Under Test LISN Line impedence Stabilization Network Test table height=0.8m 1. The E.U.T and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm/50uH coupling impedance for the measuring equipment. 2. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm				s a lent. er through a 50ohm
	termination. (Please refer to the block diagram of the test setup and photographs). 3. Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10:2013 on conducted measurement.				
Test Instruments:	Refer to section 6.0	for details			
Test mode:	Refer to section 5.2	for details			
Test environment:	Temp.: 25 °C	Hum	nid.: 52%	Press.:	1012mbar
Test voltage:	AC 120V, 60Hz				
Test results:	PASS				

Remark: Both high and low voltages have been tested to show only the worst low voltage test data.

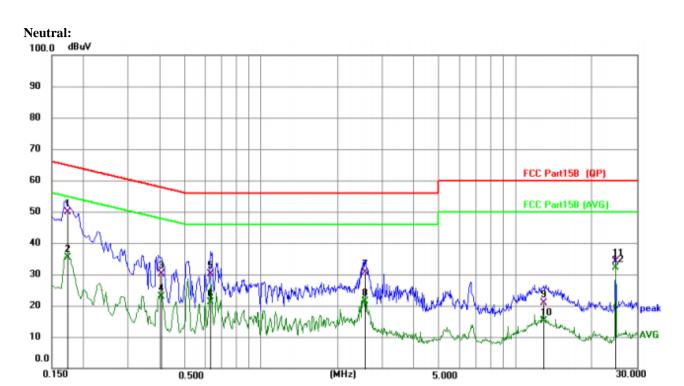


Measurement data:



No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
	MHz		dB	dBuV	dBuV	dB	Detector
1	0.1582	37.71	10.16	47.87	65.56	-17.69	QP
2	0.1582	22.47	10.16	32.63	55.56	-22.93	AVG
3	0.4040	21.08	10.26	31.34	57.77	-26.43	QP
4	0.4040	10.82	10.26	21.08	47.77	-26.69	AVG
5	0.6305	20.67	10.32	30.99	56.00	-25.01	QP
6	0.6305	12.45	10.32	22.77	46.00	-23.23	AVG
7	2.5133	19.92	10.45	30.37	56.00	-25.63	QP
8	2.5133	11.18	10.45	21.63	46.00	-24.37	AVG
9	12.8516	17.13	10.91	28.04	60.00	-31.96	QP
10	12.8516	9.23	10.91	20.14	50.00	-29.86	AVG
11	24.6594	24.40	11.35	35.75	60.00	-24.25	QP
12 *	24.6594	21.70	11.35	33.05	50.00	-16.95	AVG





No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz		dB	dBuV	dBuV	dB	Detector
1	*	0.1724	39.69	10.18	49.87	64.84	-14.97	QP
2		0.1724	25.21	10.18	35.39	54.84	-19.45	AVG
3		0.4020	19.75	10.26	30.01	57.81	-27.80	QP
4		0.4020	12.61	10.26	22.87	47.81	-24.94	AVG
5		0.6314	19.80	10.35	30.15	56.00	-25.85	QP
6		0.6314	10.72	10.35	21.07	46.00	-24.93	AVG
7		2.5636	20.29	10.43	30.72	56.00	-25.28	QP
8		2.5636	11.02	10.43	21.45	46.00	-24.55	AVG
9		12.9091	9.81	11.05	20.86	60.00	-39.14	QP
10		12.9091	4.19	11.05	15.24	50.00	-34.76	AVG
11		24.7071	22.73	11.37	34.10	60.00	-25.90	QP
12		24.7071	20.85	11.37	32.22	50.00	-17.78	AVG

Notes:

- 1. An initial pre-scan was performed on the line and neutral lines with peak detector.
- 2. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
- 3. Final Level =Receiver Read level + LISN Factor + Cable Los



6.2. Conducted Output Power

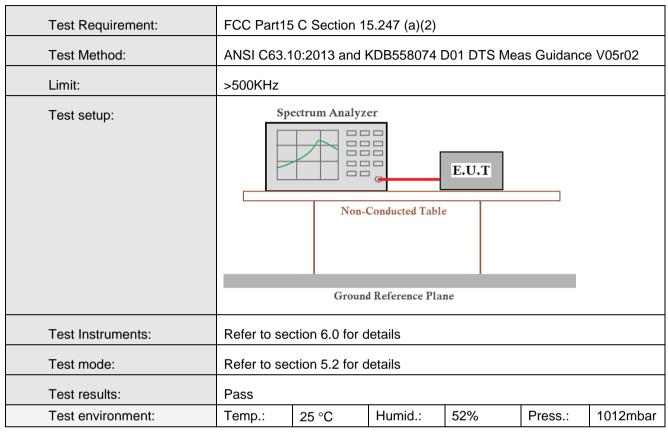
Test Requirement: Test Method:		FCC Part15 C Section 15.247 (b)(3) ANSI C63.10:2013 and KDB558074 D01 DTS Meas Guidance V05r02								
rest Method.	ANSI COS. I	0.2013 and r	100000741	DOT DTS ME	as Guidarice	9 000102				
Limit:	30dBm									
Test setup:	Power Meter E.U.T Non-Conducted Table Ground Reference Plane									
Test Instruments:	Refer to sec	ction 6.0 for d	letails							
Test mode:	Refer to sec	ction 5.2 for d	letails							
Test results:	Pass									
Test environment:	Temp.:	Temp.: 25 °C Humid.: 52% Press.: 1012mbar								

Measurement Data

Test channel	Test channel Peak Output Power (dBm)		Result		
Lowest	1.57				
Middle	0.92	30.00	Pass		
Highest	-0.45				



6.3. Channel Bandwidth

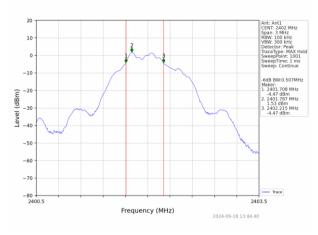


Measurement Data

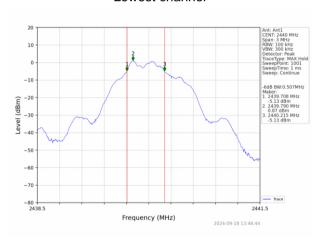
Test channel	Channel Bandwidth (MHz)	Limit(KHz)	Result	
Lowest	0.507			
Middle	0.507	>500	Pass	
Highest	0.510			



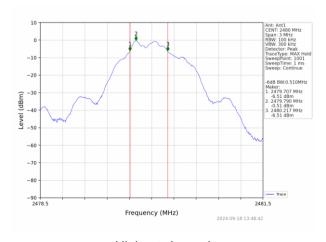
Test plot as follows:



Lowest channel



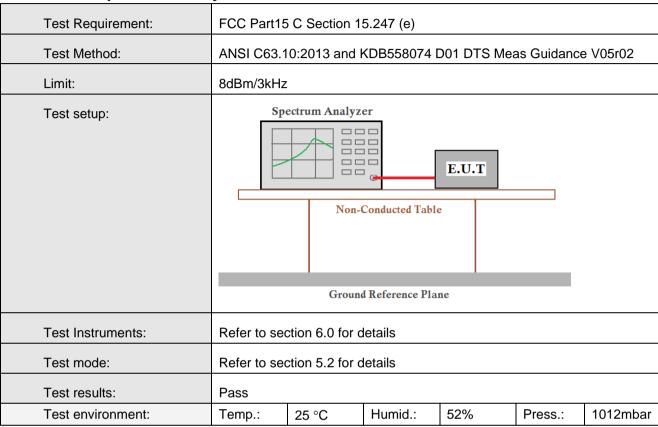
Middle channel



Highest channel



6.4. Power Spectral Density

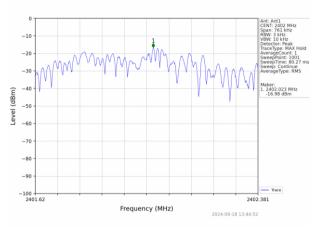


Measurement Data

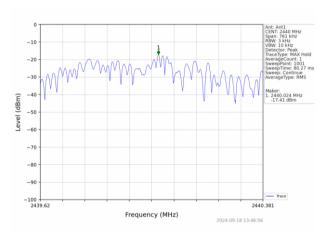
Test channel	Power Spectral Density (dBm/3kHz)	Limit(dBm/3kHz)	Result	
Lowest	-16.98			
Middle	-17.41	8.00	Pass	
Highest	-18.43			



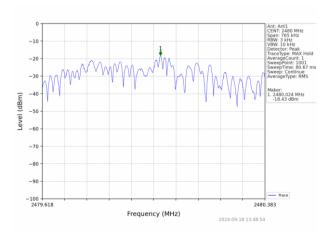
Test plot as follows:



Lowest channel



Middle channel



Highest channel

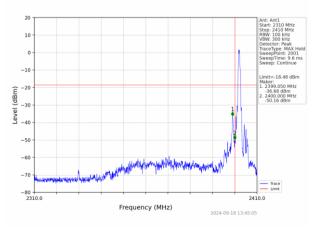


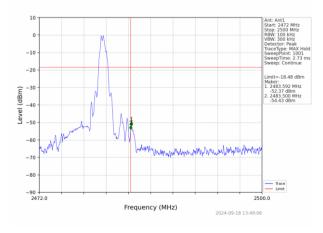
6.5. Band edges

6.5.1 Conducted Emission Method

0.5.1 Conducted Emission Metrica										
Test Requirement:	FCC Part15	C Section 1	5.247 (d)							
Test Method:	ANSI C63.1	10:2013 and I	KDB558074 [D01 DTS Me	as Guidanc	e V05r02				
Limit:	spread spe power that below that i highest leve	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.								
Test setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane									
Test Instruments:	Refer to see	ction 6.0 for c	letails							
Test mode:	Refer to see	ction 5.2 for c	letails							
Test results:	Pass									
Test environment:	Temp.:	Temp.: 25 °C Humid.: 52% Press.: 1012mbar								

Test plot as follows:





Lowest channel

Highest channel



6.5.2 Radiated Emission Method

Test Requirement:	FCC Part15 C Section 15.209 and 15.205								
Test Method:	ANSI C63.10	0:2013							
Test Frequency Range:	All of the res 2500MHz) da			ed, only	the wor	st band's (2	2310MHz to		
Test site:	Measuremer	nt Distance:	3m						
Receiver setup:	Frequency	ncy Detector		RBW VBV		/ \	/alue		
	Above 1GF	Pea	ık ′	1MHz	3MH	z F	Peak		
	Above 1GI	' ^L RM	S '	1MHz	3MH:	z Av	rerage		
Limit:	Free	quency	Limi	t (dBuV		, ,	/alue		
	Abov	e 1GHz		54.0 74.0			rerage Peak		
Test setup:	Tum Tables < 1m 4m >> Total Antennas < 150cm >= Total Antennas Test Antennas Test Antennas Test Antennas								
Test Procedure:	 The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasipeak or average method as specified and then reported in a data sheet. The radiation measurements are performed in X, Y, Z axis positioning. 								
Test Instruments:	worst case mode is recorded in the report. Refer to section 6.0 for details								
Test mode:	Refer to section 5.2 for details								
Test mode. Test results:	Pass								
	1	25.00	Humid :	520/	<u>.</u>	Droce :	1012mbor		
Test environment:	Temp.:	25 °C	Humid.:	52%	0	Press.:	1012mbar		



Measurement Data

Operation Mode: GFSK

Freque	ncy(MHz)	:	24	02	Pola	arity:	Н	IORIZONTA	\L
Frequency (MHz)	Emis Le (dBu	vel	Limit (dBuV/m)	Margin (dB)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre- amplifier (dB)	Correction Factor (dB/m)
2390.00	60.32	PK	74	13.68	61.71	27.2	4.31	32.9	-1.39
2390.00	44.53	AV	54	9.47	45.92	27.2	4.31	32.9	-1.39
Freque	Frequency(MHz):			02	Pola	arity:		VERTICAL	
Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre- amplifier (dB)	Correction Factor (dB/m)
2390.00	59.43	PK	74	14.57	60.82	27.2	4.31	32.9	-1.39
2390.00	45.75	AV	54	8.25	47.14	27.2	4.31	32.9	-1.39
Freque	ncy(MHz)	:	24	80	P ola	arity:	н	IORIZONTA	۸L
Frequency (MHz)	Emis Le (dBu	vel	Limit (dBuV/m)	Margin (dB)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre- amplifier (dB)	Correction Factor (dB/m)
2483.50	57.06	PK	74	16.94	57.99	27.4	4.47	32.8	-0.93
2483.50	45.70	AV	54	8.30	46.63	27.4	4.47	32.8	-0.93
Freque	ncy(MHz)	:	24	80	Pola	arity:		VERTICAL	
Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre- amplifier (dB)	Correction Factor (dB/m)
2483.50	55.11	PK	74	18.89	56.04	27.4	4.47	32.8	-0.93
2483.50	44.96	AV	54	9.04	45.89	27.4	4.47	32.8	-0.93

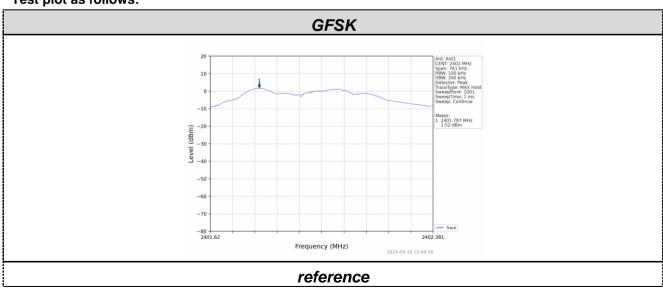


6.6. Spurious Emission

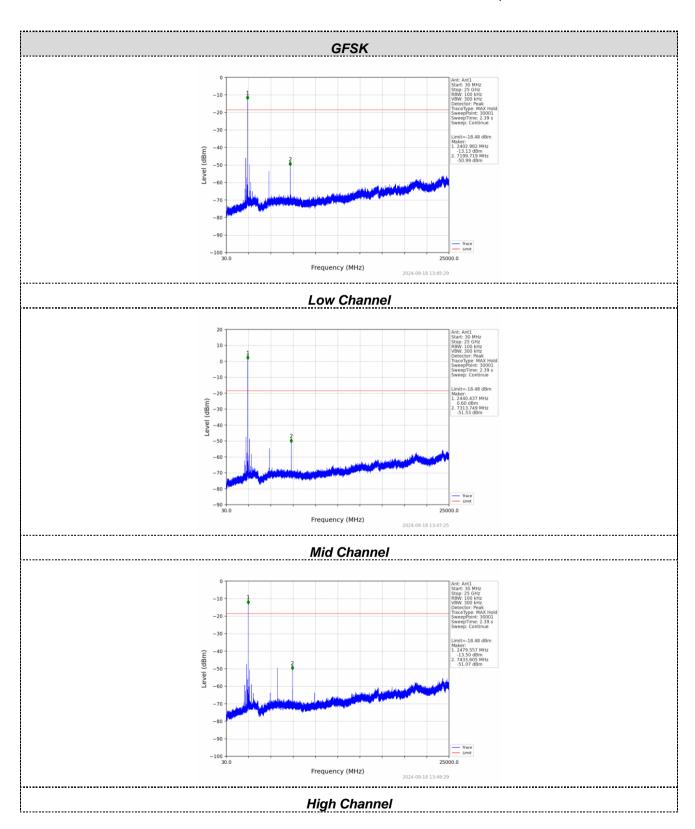
6.6.1 Conducted Emission Method

0.0.1 Conducted Linission Method										
Test Requirement:	FCC Part15	C Section 1	5.247 (d)							
Test Method:	ANSI C63.1	10:2013 and I	KDB558074 [D01 DTS Mea	as Guidanc	e V05r02				
Limit:	spread sper power that below that in highest lever	kHz bandwidt ctrum intentic is produced b n the 100 kH: el of the desir easurement.	nal radiator in y the intention z bandwidth w	s operating, to nal radiator swithin the bar	the radio fre shall be at le and that cont	quency east 20 dB ains the				
Test setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane									
Test Instruments:	Refer to see	ction 6.0 for d	etails							
Test mode:	Refer to see	ction 5.2 for d	etails							
Test results:	Pass									
Test environment:	Temp.:	Temp.: 25 °C Humid.: 52% Press.: 1012mbar								

Test plot as follows:





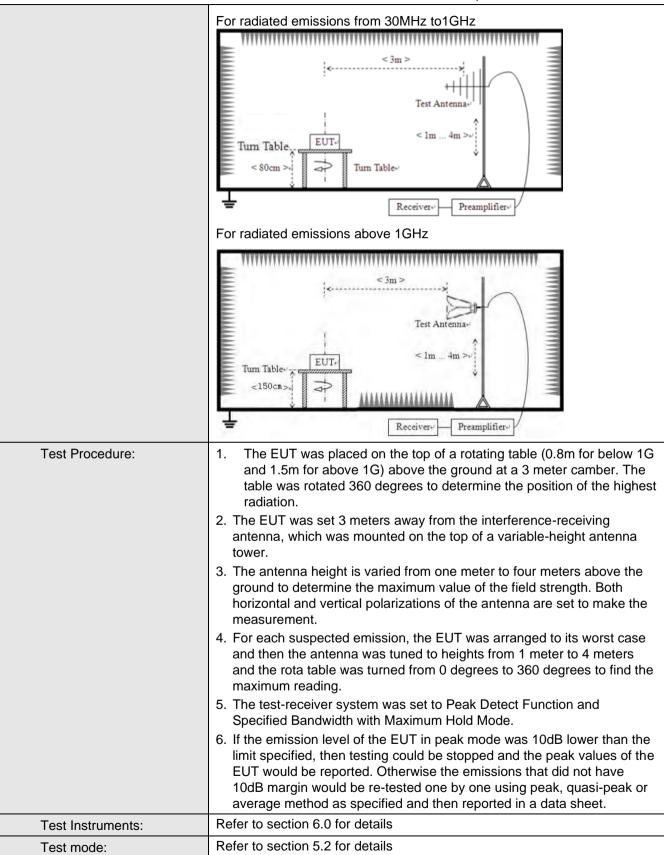




6.6.2 Radiated Emission Method

Test Requirement:	FCC Part15 C Section 15.209							
Test Method:	ANSI C63.10:2013							
Test Frequency Range:	9kHz to 25GHz							
Test site:	Measurement Distar	nce: 3	3m					
Receiver setup:	Frequency		Detector RBV		W VBW		Valu	е
	9KHz-150KHz	Qι	ıasi-peak	200	Hz	600Hz	z Quasi-p	oeak
	150KHz-30MHz	Qι	ıasi-peak	9KF	Ηz	30KHz	z Quasi-p	oeak
	30MHz-1GHz Quasi-		ıasi-peak	120k	Ήz	300KH	Iz Quasi-p	oeak
	Above 1GHz		Peak	1MF	Ηz	3MHz	z Pea	k
	Above IGHZ		Peak	1MH	Ηz	10Hz	Avera	ige
Limit:	Frequency	Limit (u\	//m)	>	'alue	Measurem Distanc		
	0.009MHz-0.490M	lHz	2400/F(k	(Hz)		QP	300m	
	0.490MHz-1.705M	lHz	24000/F(KHz)		QP		30m	
	1.705MHz-30MH	lz	30		QP		30m	
	30MHz-88MHz		100			QP		
	88MHz-216MHz		150			QP		
	216MHz-960MH		200		QP		3m	
	960MHz-1GHz		500		QP		•	
	Above 1GHz		500		Average			
			5000		Peak			
Test setup:	For radiated emissions from 9kHz to 30MHz Tum Table Receiver							







Test environment:	Temp.:	25 °C	Humid.:	52%	Press.:	1012mbar
Test voltage:	AC 120V, 60Hz					
Test results:	Pass					

Measurement data:

Remark:

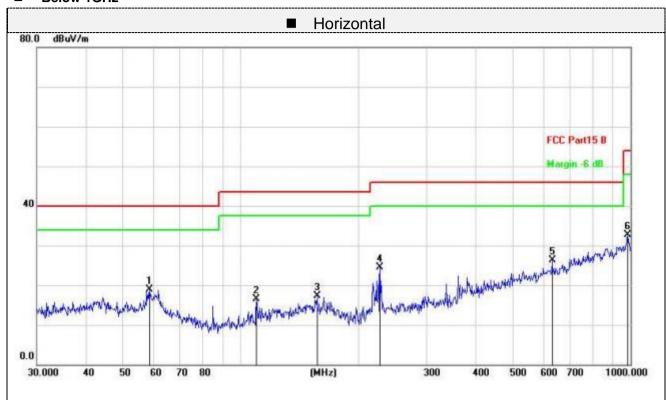
Pre-scan all kind of the place mode (X-axis, Y-axis, Z-axis), and found the Y-axis which it is worse case.

■ 9kHz~30MHz

The low frequency, which started from 9 kHz to 30 MHz, was pre-scanned and the result which was 20 dB lower than the limit line per 15.31(o) was not reported.

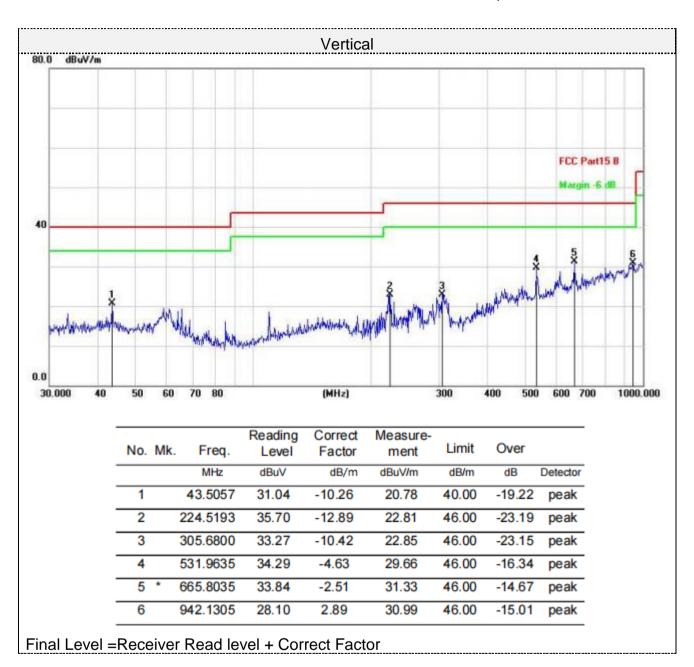


■ Below 1GHz



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dB/m	dB	Detector
1		58.4074	30.43	-11.60	18.83	40.00	-21.17	peak
2		109.7960	30.62	-14.09	16.53	43.50	-26.97	peak
3		157.0074	27.84	-10.59	17.25	43.50	-26.25	peak
4		227.6906	37.23	-12.66	24.57	46.00	-21.43	peak
5	*	629.4772	29.43	-3.11	26.32	46.00	-19.68	peak
6		982.6200	29.15	3.46	32.61	54.00	-21.39	peak







■ Above 1-25GHz

Frequency(MHz):			2402		Polarity:		HORIZONTAL		
Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre- amplifier (dB)	Correction Factor (dB/m)
4804.00	59.67	PK	74	14.33	53.97	31	6.5	31.8	5.7
4804.00	42.72	AV	54	11.28	37.02	31	6.5	31.8	5.7
7206.00	53.01	PK	74	20.99	40.36	36	8.15	31.5	12.65
7206.00	44.80	AV	54	9.20	32.15	36	8.15	31.5	12.65

Frequency(MHz):			2402		Polarity:		VERTICAL		
Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre- amplifier (dB)	Correction Factor (dB/m)
4804.00	58.53	PK	74	15.47	52.83	31	6.5	31.8	5.7
4804.00	43.15	AV	54	10.85	37.45	31	6.5	31.8	5.7
7206.00	53.47	PK	74	20.53	40.82	36	8.15	31.5	12.65
7206.00	44.03	AV	54	9.97	31.38	36	8.15	31.5	12.65

Frequency(MHz):			2440		Polarity:		HORIZONTAL		
Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre- amplifier (dB)	Correction Factor (dB/m)
4880.00	60.93	PK	74	13.07	54.77	31.2	6.61	31.65	6.16
4880.00	43.33	AV	54	10.67	37.17	31.2	6.61	31.65	6.16
7320.00	52.09	PK	74	21.91	39.14	36.2	8.23	31.48	12.95
7320.00	43.01	AV	54	10.99	30.06	36.2	8.23	31.48	12.95



Frequency(MHz):			2440		Polarity:		VERTICAL		
Frequency (MHz)	Emission Level (dBuV/m)			Margin (dB)	Raw Value	Antenna Factor	Cable Factor	Pre- amplifier	Correction Factor
(1011 12)				(ub)	(dBuV)	(dB/m)	(dB)	(dB)	(dB/m)
4880.00	61.68	PK	74	12.32	55.52	31.2	6.61	31.65	6.16
4880.00	43.50	AV	54	10.50	37.34	31.2	6.61	31.65	6.16
7320.00	52.47	PK	74	21.53	39.52	36.2	8.23	31.48	12.95
7320.00	44.15	AV	54	9.85	31.20	36.2	8.23	31.48	12.95

Frequency(MHz):			2480		Polarity:		HORIZONTAL		
Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre- amplifier (dB)	Correction Factor (dB/m)
4960.00	62.29	PK	74	11.71	55.63	31.4	6.76	31.5	6.66
4960.00	42.03	AV	54	11.97	35.37	31.4	6.76	31.5	6.66
7440.00	54.65	PK	74	19.35	41.35	36.4	8.35	31.45	13.3
7440.00	45.32	AV	54	8.68	32.02	36.4	8.35	31.45	13.3

Frequency(MHz):			2480		Polarity:		VERTICAL		
Frequency (MHz)	Emission Level (dBuV/m)		Limit (dBuV/m)	Margin (dB)	Raw Value (dBuV)	Antenna Factor (dB/m)	Cable Factor (dB)	Pre- amplifier (dB)	Correction Factor (dB/m)
4960.00	62.89	PK	74	11.11	56.23	31.4	6.76	31.5	6.66
4960.00	43.85	AV	54	10.15	37.19	31.4	6.76	31.5	6.66
7440.00	54.28	PK	74	19.72	40.98	36.4	8.35	31.45	13.3
7440.00	44.75	AV	54	9.25	31.45	36.4	8.35	31.45	13.3

Remark:

⁽¹⁾ Data of measurement within this frequency range shown "--- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

⁽²⁾ When the test results of Peak Detected below the limits of Average Detected, the Average Detected is not need completed.



6.7. Antenna Requirement

Standard Applicable

For intentional device, according to FCC 47 CFR Section 15.203:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited

FCC CFR Title 47 Part 15 Subpart C Section 15.247(c) (1) (I):

(i) Systems operating in the 2400-2483.5 MHz band that is used exclusively for fixed. Point-to-point operations may employ transmitting antennas with directional gain greater than 6dBi provided the maximum conducted output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6dBi.

Antenna Connected Construction

The maximum gain of antenna was 4.3 dBi.

Remark: The antenna gain is provided by the customer, if the data provided by the customer is not accurate, Shenzhen HTT Technology Co., Ltd. does not assume any responsibility.



7. Test Setup Photo

Reference to the appendix I for details.

8. EUT Constructional Details

Reference to the appendix II for details.

