



# FCC TEST REPORT FCC ID: 2AHB5-NOWA-1020

Prepared for				
Report No.	:	PTC20021100104E-FC01		
Brand Name	:	Hanshow		
Model Name	:	Nowa-1020R-E31 TI,Nowa-1020-NMC,Nowa-1020R-NMC,Nowa-1020Y-NMC,Nowa-1020-NC,Nowa-1020R-NC,Nowa-1020Y-NC,Nowa-1020-NM,Nowa-1020R-NM,Nowa-1020Y-NM,Nowa-1020Y-N,Nowa-1020Y-N,Nowa-1020-NMP,Nowa-1020R-NMP,Nowa-1020Y-NMP,Nowa-1020-NP,Nowa-1020R-NP,Nowa-1020Y-NP		
Product Name	:	Electronic shelf label		

Zhejiang Hanshow Technology Co., Ltd.

Bld. 33, No. 966 xiuyuan Rd., BeiKeJian Innovation Park, XiuZhou District, Jiaxing, Zhejiang, China

# Prepared by

Dongguan Precise Testing & Certification Corp., Ltd.

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# **1TEST RESULT CERTIFICATION**

Applicant's name : Zhejiang Hanshow Technology Co., Ltd.

Address : Bld. 33, No. 966 xiuyuan Rd., BeiKeJian Innovation Park, XiuZhou

District, Jiaxing, Zheijang, China

Manufacture's name : Zhejiang Hanshow Technology Co., Ltd.

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District, Jiaxing, Zhejiang, China

Product name : Electronic shelf label

Model name : Nowa-1020R-E31 TI,Nowa-1020-NMC,Nowa-1020R-NMC,Nowa-

1020Y-NMC,Nowa-1020-NC,Nowa-1020R-NC,Nowa-1020Y-NC,Nowa-1020-NM,Nowa-1020R-NM,Nowa-1020Y-NM,Nowa-1020-N,Nowa-1020R-N,Nowa-1020Y-N,Nowa-1020-NMP,Nowa-1020R-NMP,Nowa-1020Y-NP

Brand Name : Hanshow

Standards : FCC CFR47 Part 15 Section 15.249

Test procedure : ANSI C63.10:2013

Test Date : Feb. 19, 2020 to Feb. 27, 2020

Date of Issue : Feb. 28, 2020

Test Result : Pass

This device described above has been tested by PTC, and the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report.

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Engineer:	

Leo Yang / Engineer

Leo Yang

**Technical Manager:** 

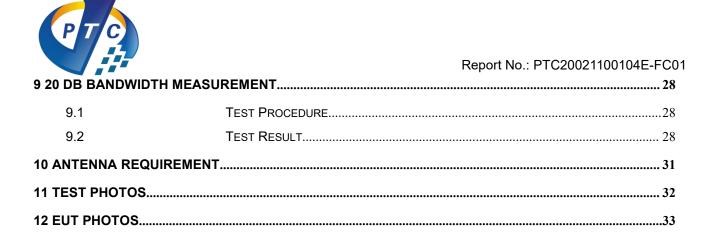
Chris Du / Manager

Cho(n)





		Page
1TEST RESULT CERTIF	FICATION	2
2 TEST SUMMARY		5
3 TEST FACILITY		6
4 GENERAL INFORMAT	FION	7
4.1	GENERAL DESCRIPTION OF E.U.T	7
4.2	Test Mode	8
5 EQUIPMENT DURING	TEST	9
5.1	EQUIPMENTS LIST	9
5.2	MEASUREMENT UNCERTAINTY	
5.3	DESCRIPTION OF SUPPORT UNITS	12
6 CONDUCTED EMISSI	ON	13
6.1	E.U.T. OPERATION	13
6.2	EUT SETUP	13
6.3	TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)	14
6.4	MEASUREMENT PROCEDURE:	14
6.5	CONDUCTED EMISSION LIMIT	14
6.6	MEASUREMENT DESCRIPTION	14
6.7	CONDUCTED EMISSION TEST RESULT	14
7 FIELD STRENGTH OF	FUNDAMENTAL EMISSION AND RADIATED SPURIOUS EMISSIONS	315
7.1	EUT OPERATION	16
7.2	TEST SETUP	16
7.3	SPECTRUM ANALYZER SETUP	18
7.4	TEST PROCEDURE	19
7.5	SUMMARY OF TEST RESULTS	20
8 BAND EDGE EMISSIC	DN	26
8.1	TEST PROCEDURE	26
8.2	TEST SETUP	26
8.3	TEST RESULTS	27





Test Items	Test Requirement	Result
AC Power Conducted Emission	15.207	N/A
20dB Bandwidth	15.215(c)	PASS
Band edge	15.249 15.205	PASS
Field Strength of Fundamental Emissions	15.249(a)	PASS
Radiated Spurious Emissions	15.205(a) 15.249(a) (d)	PASS
Antenna Requirement	15.203	PASS

Remark:

N/A: Not Applicable



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China

FCC Registration Number: 790290



# 4.1 General Description of E.U.T.

**Product Name** : Electronic shelf label

> Nowa-1020R-E31 TI,Nowa-1020-NMC,Nowa-1020R-NMC,Nowa-1020Y-NMC, Nowa-1020-NC, Nowa-1020R-NC, Nowa-1020Y-NC, Nowa-1020-NM, Nowa-1020R-NM, Nowa-1020Y-NM, Nowa-1020-N, Nowa-1020R-N,Nowa-1020Y-N,Nowa-1020-NMP,Nowa-1020R-NMP,Nowa-

Model Name

1020Y-NMP,Nowa-1020-NP,Nowa-1020R-NP,Nowa-1020Y-NP(The differences are when product at work of EPD Screen color, Appearance color and name for commmercial purpose, this repot performs the model Nowa-

1020R-E31 TI)

Operating frequency : 2.402-2.480GHZ

**Numbers of Channel** 157

**Channel Space** 0.5MHz

Antenna Type: **FPC Antenna** 

Antenna Gain: 1dBi

Type of Modulation **GFSK** 

DC 3V Power supply



For Radiated: The EUT's antenna was pre-tested under the following modes:

Test Mode	Description
Mode A	X-Y axis
Mode B	Y-Z axis
Mode C	X-Z axis

From the above modes, the worst case was found in Mode A, Therefore only the test data of the mode was recorded in this report.

# Channel List:

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
1	2402	16	2409.5				
2	2402.5						
3	2403						
4	2403.5						
5	2404						
6	2404.5						
7	2405						
8	2405.5	79	2441				
9	2406						
10	2406.5						
11	2407					153	2478
12	2407.5					154	2478.5
13	2408					155	2479
14	2408.5					156	2479.5
15	2409					157	2480

The 3 channels of lower, middle and higher were chosen for test.

Channel	Frequency(MHz)
1	2402
79	2441
157	2480



**5 Equipment During Test** 

# **5.1 Equipments List**

RF Conducted Test

Name of Equipment	Manufacturer	Model	Serial No.	Characteristics	Calibration Due
MXG Signal Analyzer	Agilent	N9020A	SER MY5111038	10Hz-30GHz	Aug. 21, 2020
Coaxial Cable	CDS	79254	46107086	10Hz-30GHz	Aug. 21, 2020
Power Meter	Anritsu	ML2495A	0949003	300MHz-40GHz	Aug. 28, 2020
Power Sensor	Anritsu	MA2411B	0917017	300MHz-40GHz	Aug. 28, 2020

Report No.: PTC20021100104E-FC01

Remark: The temporary antenna connector is soldered on the PCB board in order to perform conducted tests and this temporary antenna connector is listed in the equipment list.

#### **Radiated Emissions**

Name of Equipment	Manufacturer	Model	Serial No.	Characteristics	Calibration Due
EMI Test Receiver	Rohde&Schwarz	ESCI	101417	9KHz-3GHz	Aug. 28, 2020
Loop Antenna	Schwarzbeck	FMZB 1519	012	9 KHz -30MHz	Aug. 28, 2020
Bilog Antenna	SCHWARZBECK	VULB9160	9160-3355	25MHz-2GHz	Aug. 22, 2020
Preamplifier (low frequency)	SCHWARZBECK	BBV 9475	9745-0013	1MHz-1GHz	Aug. 21, 2020
Cable	Schwarzbeck	PLF-100	549489	9KHz-3GHz	Aug. 21, 2020
Spectrum Analyzer	Agilent	E4407B	MY45109572	9KHz-40GHz	Aug. 28, 2020
Horn Antenna	SCHWARZBECK	9120D	9120D-1246	1GHz-18GHz	Apr. 13, 2020
Power Amplifier	LUNAR EM	LNA1G18-40	J10100000081	1GHz-26.5GHz	Aug. 21, 2020
Horn Antenna	SCHWARZBECK	BBHA 9170	9170-181	14GHz-40GHz	Apr. 13, 2020
Amplifier	SCHWARZBECK	BBV 9721	9721-205	18GHz-40GHz	Aug. 21, 2020
Cable	H+S	CBL-26	N/A	1GHz-26.5GHz	Aug. 21, 2020



 Report No.: PTC20021100104E-FC01

 RF Cable
 R&S
 R204
 R21X
 1GHz-40GHz
 Aug. 21, 2020

# Conducted Emissions

Name of Equipment	Manufacturer	Model	Serial No.	Characteristics	Calibration Due
EMI Test Receiver	Rohde&Schwarz	ESCI	101417	9KHz-3GHz	Aug. 28, 2020
Artificial Mains Network	Rohde&Schwarz	ENV216	102453	9KHz-300MHz	Aug. 21, 2020
Artificial Mains Network	Rohde&Schwarz	ENV216	101342	9KHz-300MHz	Aug. 21, 2020



Parameter	Uncertainty
RF output power, conducted	±1.0dB
Power Spectral Density, conducted	±2.2dB
Radio Frequency	± 1 x 10 <sup>-6</sup>
Bandwidth	± 1.5 x 10 <sup>-6</sup>
Time	±2%
Duty Cycle	±2%
Temperature	±1°C
Humidity	±5%
DC and low frequency voltages	±3%
Conducted Emissions (150kHz~30MHz)	±3.64dB
Radiated Emission(30MHz~1GHz)	±5.03dB
Radiated Emission(1GHz~25GHz)	±4.74dB
Remark: The coverage Factor (k=2), and measured	ment Uncertainty for a level of Confidence of 95%



Equipment	Model No.	Series No.
Adapter	N/A	N/A

Test Requirement: : FCC CFR 47 Part 15 Section 15.207

Test Method: : ANSI C63.10:2013

Test Result: : PASS

Frequency Range: : 150kHz to 30MHz

Class/Severity: : Class B

Detector: : Peak for pre-scan (9kHz Resolution Bandwidth)

# 6.1 E.U.T. Operation

Operating Environment:

Temperature: : 25.5 °C

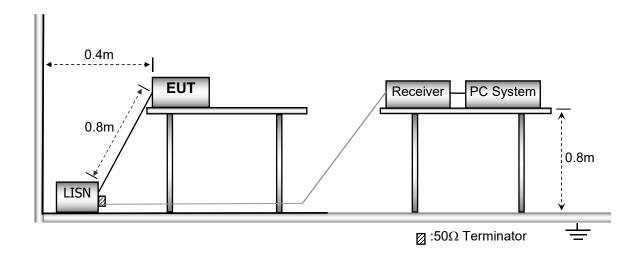
Humidity: : 51 % RH

Atmospheric Pressure: : 101.2kPa

Test Voltage : DC 3V

# 6.2 EUT Setup

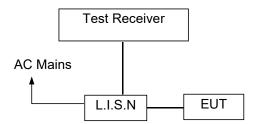
The conducted emission tests were performed using the setup accordance with the ANSI C63.10: 2013





6.3 Test SET-UP (Block Diagram of Configuration)

Report No.: PTC20021100104E-FC01



#### **6.4** Measurement Procedure:

- 1. The EUT was placed on a table, which is 0.8m above ground plane.
- 2. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
- 3. Repeat above procedures until all frequency measured was complete.

#### 6.5 Conducted Emission Limit

#### **Conducted Emission**

Frequency(MHz)	Quasi-peak	Average
0.15-0.5	66-56	56-46
0.5-5.0	56	46
5.0-30.0	60	50

#### Note:

- 1. The lower limit shall apply at the transition frequencies
- 2. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.

# 6.6 Measurement Description

The maximised peak emissions from the EUT was scanned and measured for both the Live and Neutral Lines. Quasi-peak & average measurements were performed if peak emissions were within 6dB of the average limit line.

#### 6.7 Conducted Emission Test Result

N/A

N/A: Not Applicable



# 7 Field Strength of Fundamental Emission and Radiated Spurious Emissions

Test Requirement: : FCC CFR47 Part 15 Section 15.209 & 15.249

Test Method: : ANSI C63.10:2013

Test Result: : PASS
Measurement Distance: : 3m

Limit: : See the follow table

	Field Strer	ngth	Field Strength Limit at 3m Measurement Dist		
Frequency (MHz)	uV/m	Distance (m)	uV/m	dBuV/m	
0.009 ~ 0.490	2400/F(kHz)	300	10000 * 2400/F(kHz)	20log <sup>(2400/F(kHz))</sup> + 80	
0.490 ~ 1.705	24000/F(kHz)	30	100 * 24000/F(kHz)	20log <sup>(24000/F(kHz))</sup> + 40	
1.705 ~ 30	30	30	100 * 30	20log <sup>(30)</sup> + 40	
30 ~ 88	100	3	100	20log <sup>(100)</sup>	
88 ~ 216	150	3	150	20log <sup>(150)</sup>	
216 ~ 960	200	3	200	20log <sup>(200)</sup>	
Above 960	500	3	500	20log <sup>(500)</sup>	

Note: 1. Emission level in dBuV/m=20 log (uV/m)

2. Measurement was performed at an antenna to the closed point of EUT distance of meters.

The field strength of emission from intentional radiators operated within these frequency bands shall comply with the following:

Frequency(MHz)		trength of ental(at 3m)	Filed Strength of Harmonics(at 3m)		
	PEAK	AVERÁGE	PEAK	AVERAGE	
902-928	114	94	74.0	54.0	
2400-2483.5	114	94	74.0	54.0	
5725-5875	114	94	74.0	54.0	
24000-24250	128	108	88.0	68.0	



Operating Environment:

Temperature: : 23.5 °C

Humidity: : 51.1 % RH

Atmospheric Pressure: : 101.2kPa

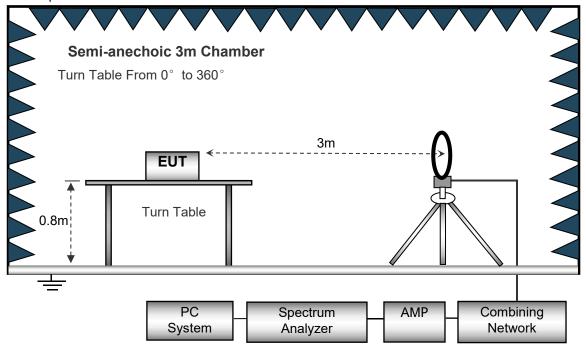
EUT Operation : : Running

Test Voltage : DC 3V

# 7.2 Test Setup

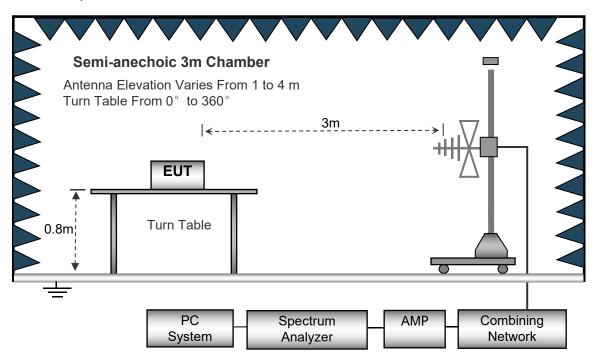
The radiated emission tests were performed in the 3m Semi- Anechoic Chamber test site

The test setup for emission measurement below 30MHz.

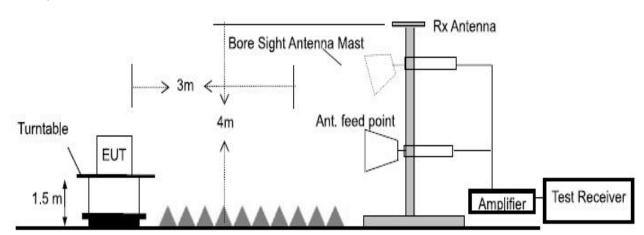




The test setup for emission measurement from 30 MHz to 1 GHz.



The test setup for emission measurement above 1 GHz.





Spectrum Parameter	Setting
Attenuation	Auto
Start Frequency	1000 MHz
Stop Frequency	10th carrier harmonic
RB / VB (emission in restricted band)	1 MHz / 1 MHz for Peak, 1 MHz / 10Hz for Average

Receiver Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9kHz~150kHz / RB 200Hz for QP
Start ~ Stop Frequency	150kHz~30MHz / RB 9kHz for QP
Start ~ Stop Frequency	30MHz~1000MHz / RB 120kHz for QP



- 1. The testing follows the guidelines in Spurious Radiated Emissions of ANSI C63.10-2013.
- 2. Below 1000MHz, The EUT was placed on a turn table which is 0.8m above ground plane. And above 1000MHz, The EUT was placed on a styrofoam table which is 1.5m above ground plane.
- 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. For each suspected emission, the EUT was arranged to its worst case and then tune the Antenna tower (From 1m to 4m) and turntable (from 0 degree to 360 degree) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level to comply with the guidelines.
- 5. Set to the maximum power setting and enable the EUT transmit continuously.
- 6. Final measurement (Above 1GHz): The frequency range will be divided into different sub ranges depending of the frequency range of the used horn antenna. The EMI Receiver set to peak and average mode and a resolution bandwidth of 1MHz. The measurement will be performed in horizontal and vertical polarization of the measuring antenna and while rotating the EUT in its vertical axis in the range of 0 degree to 360 degree in order to have the antenna inside the cone of radiation.
- 7. Test Procedure of measurement (For Above 1GHz):
- 1) Monitor the frequency range at horizontal polarization and move the antenna over all sides of the EUT(if necessary move the EUT to another orthogonal axis).
- 2) Change the antenna polarization and repeat 1) with vertical polarization.
- 3) Make a hardcopy of the spectrum.
- 4) Measure the frequency of the detected emissions with a lower span and resolution bandwidth to increase the accuracy and note the frequency value.
- 5) Change the analyser mode to Clear/ Write and found the cone of emission.
- 6) Rotate and move the EUT, so that the measuring distance can be enlarged to 3m and the antenna will be still inside the cone of emission.
- 7) Measure the level of the detected frequency with the correct resolution bandwidth, with the antenna polarization and azimuth and the peak and average detector, which causes the maximum emission.
- 8) Repeat steps 1) to 7) for the next antenna spot if the EUT is larger than the antenna beamwidth.
- 7. The radiation measurements are tested under 3-axes(X,Y,Z) position(X denotes lying on the table, Y denotes side stand and Z denotes vertical stand), After pre-test, It was found that the worse radiation emission was get at the X position. So the data shown was the X position only.

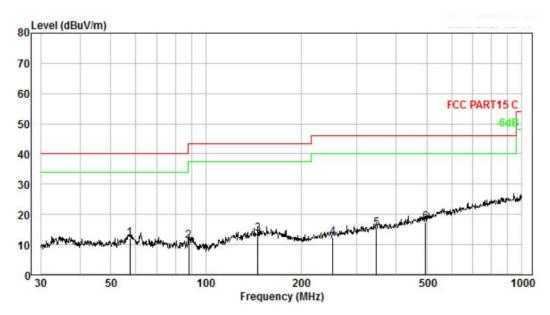


The measurements were more than 20 dB below the limit and not reported.

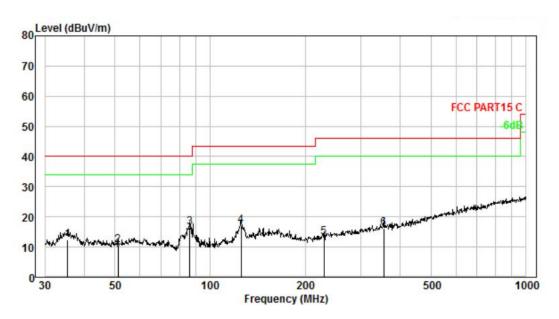
The low frequency, which started from 9KHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line per 15.31(o) was not reported.

Test Frequency: 30MHz ~ 1GHz

Remark: only the worst data were reported.



No.	Freq MHz	Cable Loss dB	ANT Factor dB/m	Receiver Reading dBuV	Preamp Factor dB	Emission Level dBuV/m	Limit dBuV/m	Over Limit dB	Remark
1.	57.392	2.31	11.90	27.76	29.93	12.04	40.00	-27.96	QP
2.	88.342	3.06	9.04	29.24	29.98	11.36	43.50	-32.14	QP
3.	145.861	3.92	13.55	26.12	30.02	13.57	43.50	-29.93	QP
4.	252.063	4.86	12.53	25.06	30.20	12.25	46.00	-33.75	QP
5.	346.809	5.41	14.33	26.20	30.51	15.43	46.00	-30.57	QP
6.	495.934	6.03	17.01	25.36	30.89	17.51	46.00	-28.49	QP



No.	Freq MHz	Cable Loss dB	ANT Factor dB/m	Receiver Reading dBuV	Preamp Factor dB	Emission Level dBuV/m	Limit dBuV/m	Over Limit dB	Remark
1.	35.375	1.49	12.19	28.55	29.90	12.33	40.00	-27.67	QP
2.	51.121	2.12	12.10	26.43	29.92	10.73	40.00	-29.27	QP
3.	86.200	3.02	8.82	34.53	29.98	16.39	40.00	-23.61	QP
4.	125.446	3.66	12.37	31.20	30.01	17.22	43.50	-26.28	QP
5.	229.293	4.70	11.92	26.71	30.13	13.20	46.00	-32.80	QP
6.	354.183	5.45	14.44	27.03	30.54	16.38	46.00	-29.62	QP



# Above 1000MHz-10<sup>th</sup> Harmonics:

Operation Mode: GFSK (CH1: 2402MHz)

Freq.	Ant. Pol.	Emission Le	vel(dBuV/m)	Limit 3m(dBuV/m)		Margin(dB)	
(MHz)	H/V	PK	AV	PK	AV	PK	AV
2402(F)	V	90.56	85.43	114	94	-23.44	-8.57
4804	V	56.89	43.32	74	54	-17.11	-10.68
7206	V	55.51	42.07	74	54	-18.49	-11.93
9608	V	56.18	42.42	74	54	-17.82	-11.58
12010	V	56.62	42.58	74	54	-17.38	-11.42
14412	V	56.16	42.21	74	54	-17.84	-11.79
16821	V	56.34	42.37	74	54	-17.66	-11.63
2402(F)	Н	88.59	83.14	114	94	-25.41	-10.86
4804	Н	56.91	43.06	74	54	-17.09	-10.94
7206	Н	55.42	42.37	74	54	-18.58	-11.63
9608	Н	56.19	42.25	74	54	-17.81	-11.75
12010	Н	56.64	42.44	74	54	-17.36	-11.56
14412	Н	56.71	42.52	74	54	-17.29	-11.48
16814	Н	56.23	42.05	74	54	-17.77	-11.95



Operation Mode: GFSK (CH79: 2441MHz)

Freq.	Ant. Pol.	Emission Le	vel(dBuV/m)	Limit 3m(dBuV/m)		Margin(dB)	
(MHz)	H/V	PK	AV	PK	AV	PK	AV
2441(F)	V	90.06	84.88	114	94	-23.94	-9.12
4882	V	56.83	43.14	74	54	-17.17	-10.86
7323	V	55.72	42.68	74	54	-18.28	-11.32
9764	V	56.33	42.52	74	54	-17.67	-11. <b>4</b> 8
12205	V	56.15	42.34	74	54	-17.85	-11.66
14646	V	56.71	42.15	74	54	-17.29	-11.85
17087	V	56.32	42.44	74	54	-17.68	-11.56
2441(F)	Н	89.31	84.06	114	94	-24.69	-9.94
4882	Н	56.53	43.11	74	54	-17.47	-10.89
7323	Н	55.39	42.27	74	54	-18.61	-11.73
9764	Н	56.81	42.64	74	54	-17.19	-11.36
12205	Н	56.15	42.42	74	54	-17.85	-11.58
14646	Н	56.76	42.08	74	54	-17.24	-11.92
17087	Н	56.28	42.17	74	54	-17.72	-11.83



Operation Mode: GFSK (CH157: 2480MHz)

Freq.	Ant. Pol.	Emission Le	vel(dBuV/m)	Limit 3m(dBuV/m)		Margin(dB)	
(MHz)	H/V	PK	AV	PK	AV	PK	AV
2480(F)	V	89.35	84.24	114	94	-24.65	-9.76
4960	V	56.58	43.07	74	54	-17.42	-10.93
7440	V	55.08	42.41	74	54	-18.92	-11.59
9920	V	56.34	42.26	74	54	-17.66	-11.74
12400	V	56.51	42.42	74	54	-17.49	-11.58
14880	V	56.65	42.08	74	54	-17.35	-11.92
17360	V	56.34	42.11	74	54	-17.66	-11.89
2480(F)	Н	88.72	83.15	114	94	-25.28	-10.85
4960	Н	56.42	42.85	74	54	-17.58	-11.15
7440	Н	55.91	42.24	74	54	-18.09	-11.76
9920	Н	56.05	42.31	74	54	-17.95	-11.69
12400	Н	56.29	41.76	74	54	-17.71	-12.24
14880	Н	56.38	42.01	74	54	-17.62	-11.99
17360	Н	56.53	42.28	74	54	-17.47	-11.72

#### 8.1 TEST PROCEDURE

The EUT was placed on a styrofoam table which is 1.5m above ground plane.

The measurement procedure at the ban edges was simplified by performing the measurement in just one plot. Both, the in-band-emission and the unwanted emission were be encompassed by the span. After trace stabilization, the maximum peak was be determined by a peak detector and the value was marked by an appropriate limit line. The second limit line, which is 20dB below the first, marks the limit for the emissions in the unrestricted band. A maximum-peak-detector marks the highest emission in the unrestricted band next to the band edge.

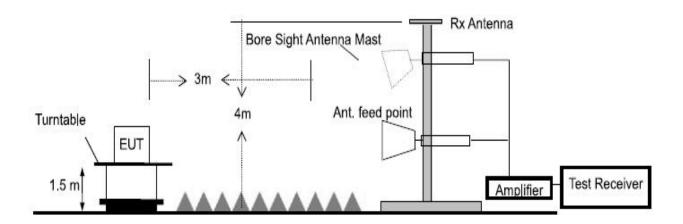
The measurements were performed at the lower end of the 2.4GHz band.

Use the following spectrum analyzer settings:

When spectrum scanned above 1GHz setting resolution bandwidth 1MHz, video bandwidth 3MHz:

EMI Test Receiver	Setting
Attenuation	Auto
RBW	1MHz
VBW	3MHz
Detector	Peak
Trace	Max hold

#### 8.2 TEST SETUP





Frequency (MHz)	Antenna polarization	Emission (dBuV/m)		Band edge Limit (dBuV/m)		Margin (dB)	
	(H/V)	PK	AV	PK	AV	PK	AV
2400	Н	44.96	36.25	74	54	-29.04	-17.75
2400	V	44.03	35.74	74	54	-29.97	-18.26
2483.5	Н	44.16	35.05	74	54	-29.84	-18.95
2483.5	V	44.22	34.59	74	54	-29.78	-19.41

Test Requirement : FCC Part 15C Section 15.215(c)/Part 2 J Section 2.1049

Test Method : ANSI C63.10:2013

Test Mode : Running

# 9.1 Test Procedure

1. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum;

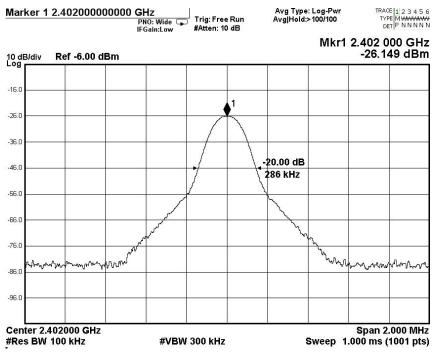
2. Set the spectrum analyzer: RBW = 100kHz, VBW = 300kHz

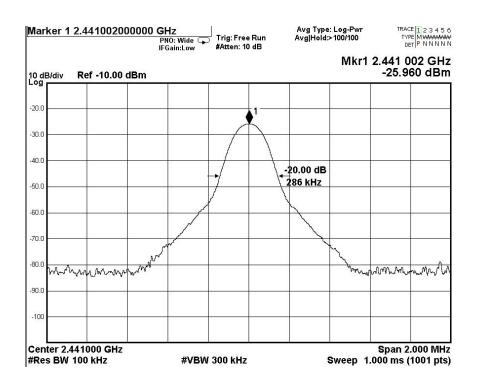
#### 9.2 Test Result

Test Mode: Low / Middle / High Mode

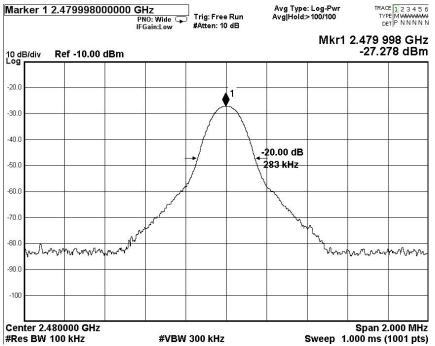
Channel number	Channel frequency (MHz)	20dB Down BW(kHz)
Low	2402	286
Middle	2441	286
High	2480	283













According to the FCC part15.203, a transmitter can only be sold or operated with antennas with which it was approved. This product has an internal FPC Antenna,max gain is 1dBi, it meet the requirement of this section.

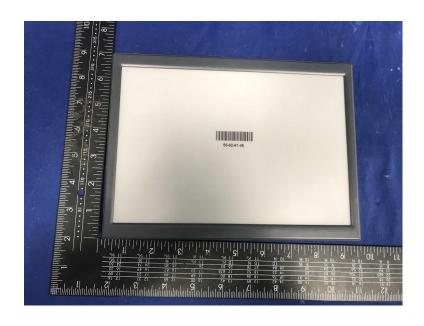


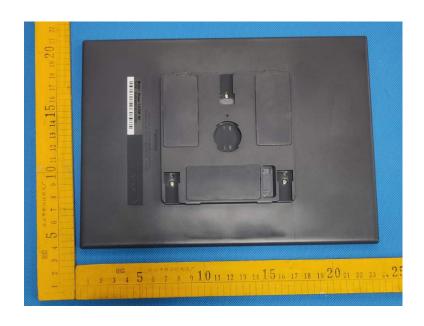








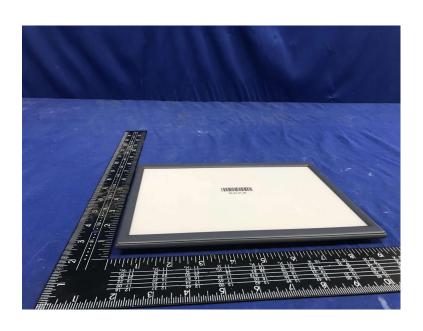
















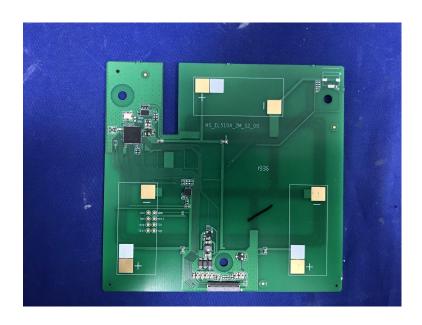
ı

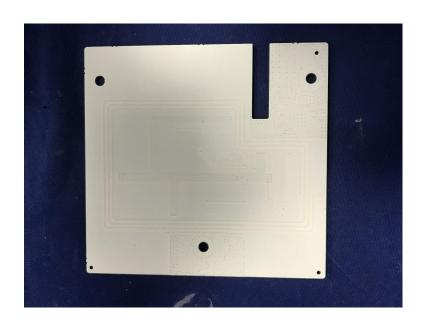




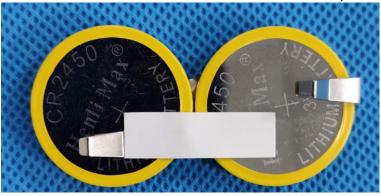












\*\*\*\*\*\*THE END REPORT\*\*\*\*\*