

TEST REPORT

Model Number :		
Prepared for Address	:	Goods iQ 50 Romano Vineyard Way North Kingstown, Rhode Island, United States 02852
Prepared by Address		EMTEK (NINGBO) CO., LTD. 1F Building 4, 1177#, Lingyun Road, Ningbo National Hi-Tech Zone, Ningbo, Zhejiang, China. Tel: +86-574-27907998 Fax: +86-574-27721538
Report Number Date(s) of Tests Date of Issue		ENB2108160213W00101R August 16, 2021 to September 07, 2021 September 13, 2021

EMTEK(Ningbo) Co., Ltd.



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TEST REPORT DESCRIPTIC	N
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Applicant	:	Goods iQ
Address	:	50 Romano Vineyard Way North Kingstown, Rhode Island, United States 02852.
Manufacturer	:	NINGBO CHINYO LIGHTING APPLIANCE CO., LTD
Address	:	No. 7, Ketai Road, Wangchun Industrial Zone, Haishu District, Ningbo, Zhejiang
EUT	:	LED LAMP
Model Name	:	LED2100-QISM-S, LED2100-QISM, LED2100-QISM-BK, LED2100-QISM-WH, LED2100-QISM-WD, LED2200-QISM-BK, LED2200-QISM-WH
Trademark	:	BLACK+DECKER

We hereby certify that:

The above equipment was tested by EMTEK (NINGBO) CO., LTD. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10 (2013) and the energy emitted by the sample EUT tested as described in this report is in compliance with the requirements of FCC Rules Part 15C

The test results of this report relate only to the tested sample identified in this report.

Date of Test :	August 16, 2021 to September 07, 2021
Prepared by :	June Gao/Engineer
Reviewer :	Vinay/Supervisor
Approved & Authorized Signer :	Tony Wei Tony Wei/Manager

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Modified Information

Version	Report No.	Revision Data	Summary	
Ver.1.0 ENB2108160213W00101R		1	Original Version	





1. SUMMARY OF TEST RESULTS

EMISSION				
Description of Test Item	Standard & Limits	Results		
Conducted Emission	FCC Part 15, Subpart C- Section 15.207 ANSI C63.10-2013	Pass		
Radiated Emission	FCC Part 15, Subpart C- Section 15.209 ANSI C63.10-2013	Pass		
Note: N/A is an abbreviatior	n for Not Applicable.			



2. GENERAL INFORMATION

2.1.Description of Device (EUT)

Product:	LED LAMP		
Model Number:	LED2100-QISM-S, LED2100-QISM, LED2100-QISM-BK, LED2100-QISM-WH, LED2100-QISM-WD, LED2200-QISM-BK, LED2200-QISM-WH (Note: All models are the same except the color. We prepared model LED2100-QISM for EMC test.)		
Sample Number:	1#		
Power Supply:	DC 12V from adapter		
Modulation:	Ask		
Maximum Power Rate:	67.74 dBuV/m		
Adapter:	M/N: HP18G-1201500-AU Input: AC 100-240V, 50/60Hz, 0.5A Output: DC 12V, 1.5A		
Frequency Range:	110 kHz~205 KHz		
Antenna Type:	Integral Antenna(Induction coil)		
Antenna Gain:	0 dBi		
Operating Temperature	0°C ~ +50°C		
Date of Received:	August 16, 2021		

2.2. Input / Output Ports

Port #	Name	Type*	Cable Max. >3m	Cable Shielded	Comments		
1	DC Power Port	DC	No	N/A	None		
* Note	* Note: For the purposes of the present document, the following symbols apply:						
AC	AC Power Port						
DC	DC Power Port						
N/E	Non-Electrical						
I/O	Signal Input or Output Port (Not Involved in Process Control)						
TP	Telecommunication Ports						



2.3. Independent Operation Modes

А Wireless Charging(Full load)

2.4. Test Manner

Test Items	Test Voltage	Operation Modes	
Conducted Emission	AC 120V/60Hz	Mode A	
Radiated Emission	AC 120V/60Hz	Mode A	

2.5. Description of Test Facility

Accredited by CNAS
The Certificate Registration Number is L6666.
The Laboratory has been assessed and proved to be in compliance with
CNAS-CL01:2018 (identical to ISO/IEC 17025:2017)
Accredited by FCC
Designation Number: CN1302
Test Firm Registration Number: 436491
Accredited by A2LA
The certificate is valid until May 31, 2023
Accordited by Inductory Concide
Accredited by Industry Canada
The Conformity Assessment Body Identifier is CN0114
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: 1F Building 4, 1177#, Lingyun Road, Ningbo National Hi-Tech Zone,
Ningbo, Zhejiang, China.

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2.6. Description of Support Device

No.	Equipment	Trade name	Model	S/N	Power Cord
1	Wireless Load	/	5w/7.5w/9w/15w	/	/

2.7. Measurement Uncertainty

The following measurement uncertainty levels have been estimated for tests performed on the apparatus:

Parameter	Uncertainty
Radio Frequency	±1x10^-5
Conducted Emissions Test	±2.0 dB
Radiated Emission Test	±2.0 dB
Occupied Bandwidth Test	±1.0 dB
Temperature	±0.5 ℃
Humidity	±3 %

Measurement Uncertainty for a level of Confidence of 95%

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3. MEASURING DEVICE AND TEST EQUIPMENT

EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LASTCAL.	CAL. INTERVAL
Test Receiver	Rohde & Schwarz	ESCI	101108	July 08, 2021	1 Year
L.I.S.N	Rohde & Schwarz	ENV216	101193	July 08, 2021	1 Year
L.I.S.N	Schwarzbeck	NSLK 8126	8126-462	July 08, 2021	1 Year
Pulse Limiter	MTS-systemtechnik	IMP-136	2611115-001-00 33	July 08, 2021	1 Year
RF Switching unit	Compliance Direction Systems Inc.	RSU-M2	38400	July 08, 2021	1 Year

3.1. Conducted Emission Test Equipment

3.2. For 3m Radiated Emission Measurement 9K-30M

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	DUE CAL.
EMI Test Receiver	Rohde & Schwarz	ESCI	101107	July 08, 2021	1 Year
Loop Antenna	Schwarzbeck	FMZB 1519	1519-012	Dec 08, 2020	2 Year
Cable	HUBER + SUHNER	CBL3-NN-0.5M	101216-21405 00-2	July 08, 2021	1 Year
Cable	HUBER + SUHNER	CBL3-NN-3.0M	101216-21430 00-2	July 08, 2021	1 Year

3.3. For 3m Radiated Emission Measurement 30M-1G

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval	
Spectrum Analyzer	Rohde & Schwarz	ESCI	101107	July 08, 2021	1 Year	
EMI Test Receiver	Rohde & Schwarz	ESCI	101107	July 08, 2021	1 Year	
Pre-Amplifier	CD	PAP-0203	22015	July 08, 2021	1 Year	
Bilog Antenna	Schwarzbeck	VULB9163	9163-467	July 12, 2020	2 Year	
Cable	HUBER + SUHNER	CBL3-NN-0.5	101216-214050	July 08, 2021	1 Year	
Cable	HUDER + SUIINER	М	0-2	July 00, 202 I	i ieai	
Cable	HUBER + SUHNER	CBL3-NN-3.0	101216-214300	July 08, 2021	1 Year	
Cable		М	0-2	July 00, 2021	i ieai	

3.4.20dB Bandwidth

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
Spectrum Analyzer	Agilent	E4407B	MY45107013	10/10/2020	1 Year

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4. 20DB BANDWIDTH

4.1. Test Procedure

Set to the maximum power setting and enable the EUT transmit continuously Set RBW =1%-5%OBW Set the video bandwidth (VBW) =3*RBW Set Span= 1KHz Set Detector = Peak. Set Trace mode = max hold. Set Sweep = auto couple. Measure and record the results in the test report.

4.2. Test Results

Temperature:	24 ℃	Test Date:	August 30, 2021
Humidity:	53 %	Test By:	LSL

20dB Band=347.553Hz

🔆 Ag	jilent		R	T FredChannel
	·			Freq/Channel
Occupi	Ch Freq ied Bandwidth	116.962 kHz	Trig Fr	Center Freq 116.962000 kHz
Cen	nter 116.96	620000 kHz		Start From
Ref -30	0 dBm	#Atten 0 dB	Mkr1 116.962 k -44.74 dB	110.4020001012
#Peak Log 10				Stop Freq 117.462000 kHz
dB/				CF Step 100.000000 Hz <u>Auto Ma</u>
	r 117 kHz BW 10 Hz	#VBW 30	Span 1 I Hz Sweep 478 ms (401 pts	
_	cupied Ba		Occ BW % Pwr 99.00 x dB -20.00 dE	% Signal Track
	smit Freq Error Bandwidth	-24.905 Hz 347.553 Hz		Scale Type ^{Log <u>Li</u>i}

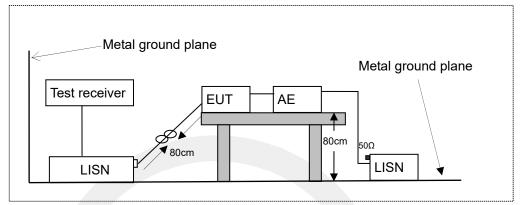
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5. POWER LINE CONDUCTED EMISSION MEASUREMENT

5.1. Block Diagram of Test Setup



LISN: Line Impedance Stabilization Network AE: Associated equipment EUT: Equipment under test

5.2. Limits

FCC Part 15.207

Frequency			Limit (dBµV)				
	(MHz)		Quasi-peak Level	Average Level			
0.15	~	0.50	66.0 ~ 56.0 *	56.0 ~ 46.0 *			
0.50	~	5.00	56.0	46.0			
5.00	~	30.00	60.0	50.0			
NOTE1-The lower limit shall apply at the transition frequencies. NOTE2-The limit decreases linearly with the logarithm of the frequency in the range 0.15MHz to							
0.50MF	17.						

5.3. Test Procedure

The EUT was placed on a desk 0.8 m height from the metal ground plane and 0.4 m from the conducting wall of the shielding room and it was kept at least 0.8 m from any other grounded conducting surface. The size of the table will nominally be 1.5 m x1.0 m.

The rear of the arrangement shall be flush with the back of the supporting tabletop unless that would not be possible or typical of normal use.

All units of equipment forming the system under test (includes the EUT as well as connected peripherals and associated equipment or devices) shall be arranged such that a nominal 0.1 m separation is achieved between the neighboring units.

Connect EUT to the power mains through a line impedance stabilization network (LISN). Where the mains cable supplied by the manufacturer is longer than 1 m, the excess should be folded at the centre into a bundle no longer than 0.4 m, so that its length is shortened to 1 m.

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All the support units are connecting to the other LISN.

The LISN provides 50 ohm coupling impedance for the measuring instrument.

Both sides of AC line were checked for maximum conducted interference.

The frequency range from 150 kHz to 30 MHz was sweep.

Set the test-receiver system to quasi peak detect function and average detect function, and to measure the conducted emissions values.

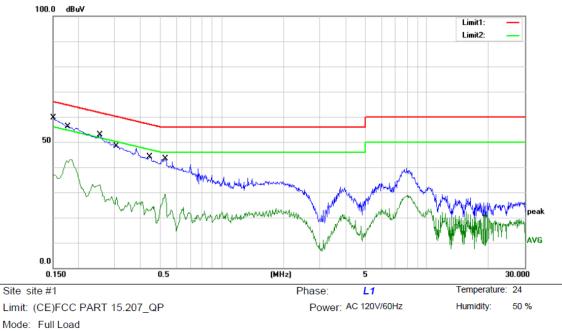
Test results were obtained from the following equation: Emission Level ($dB\mu V$) = LISN Factor (dB) + Cable Loss (dB) + Reading ($dB\mu V$) Margin (dB) = Emission Level ($dB\mu V$) - Limit ($dB\mu V$)

5.4. Measuring Results

Pass.

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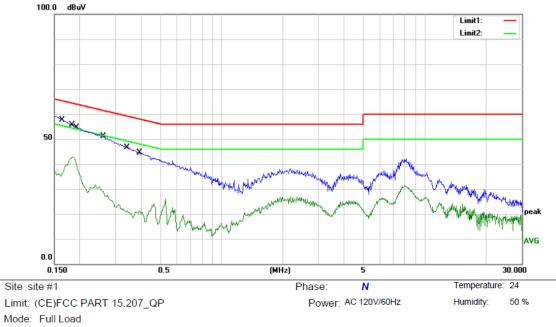




Note:

No. M	k. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1 *	0.1500	49.60	10.10	59.70	66.00	-6.30	QP	
2	0.1500	27.00	10.10	37.10	56.00	-18.90	AVG	
3	0.1796	45.70	10.09	55.79	64.50	-8.71	QP	
4	0.1796	32.40	10.09	42.49	54.50	-12.01	AVG	
5	0.2540	42.70	10.09	52.79	61.63	-8.84	QP	
6	0.2540	22.90	10.09	32.99	51.63	-18.64	AVG	
7	0.3067	38.20	10.08	48.28	60.06	-11.78	QP	
8	0.3067	17.40	10.08	27.48	50.06	-22.58	AVG	
9	0.4460	34.00	10.07	44.07	56.95	-12.88	QP	
10	0.4460	12.70	10.07	22.77	46.95	-24.18	AVG	
11	0.5300	33.20	10.07	43.27	56.00	-12.73	QP	
12	0.5300	18.90	10.07	28.97	46.00	-17.03	AVG	





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Note:
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No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1 *	0.1660	47.30	10.08	57.38	65.16	-7.78	QP	
2	0.1660	26.90	10.08	36.98	55.16	-18.18	AVG	
3	0.1860	45.20	10.08	55.28	64.21	-8.93	QP	
4	0.1860	32.80	10.08	42.88	54.21	-11.33	AVG	
5	0.1955	44.30	10.08	54.38	63.80	-9.42	QP	
6	0.1955	27.70	10.08	37.78	53.80	-16.02	AVG	
7	0.2620	40.90	10.09	50.99	61.37	-10.38	QP	
8	0.2620	18.60	10.09	28.69	51.37	-22.68	AVG	
9	0.3420	36.60	10.09	46.69	59.15	-12.46	QP	
10	0.3420	11.20	10.09	21.29	49.15	-27.86	AVG	
11	0.3955	34.10	10.10	44.20	57.95	-13.75	QP	
12	0.3955	11.00	10.10	21.10	47.95	-26.85	AVG	



6. RADIATED EMISSION TEST

6.1.Measurement Procedure

- 1. The EUT was placed on a turn table which is 0.8m above ground plane.
- 2. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.

3. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.

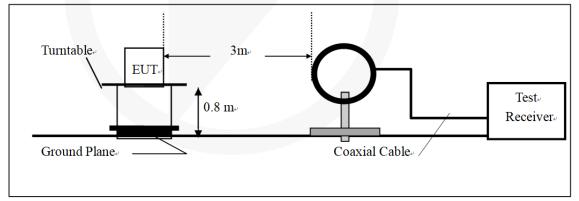
4. Repeat above procedures until all frequency measured were complete.

- 5. Use the following receiver/spectrum analyzer settings:
- Span = wide enough to fully capture the emission being measured

RBW=200Hz for 9KHz to 150KHz,

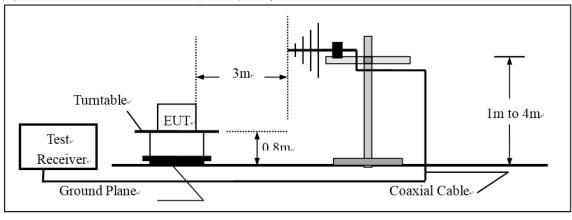
RBW=9kHz for 150KHz to 30MHz, RBW=120KHz for 30MHz to 1GHz VBW \ge 3*RBW Sweep = auto Detector function = QP Trace = max hold

6.2.Test SET-UP (Block Diagram of Configuration)



(A)Radiated Emission Test Set-Up, Frequency Below 30MHz

(B) Radiated Emission Test Set-Up, Frequency Below 1000MHz



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6.3. Radiated Emission Limit

The emissions from an intentional radiator shall not exceed the field strength levels specified in the following table 15.209(a):

FCC Part 15.209							
	Field Streng	gth	Field Strength Limitation Frequency tion at 3m				
Frequency	Limitation		Meas	urement Dist			
(MHz)	(uV/m)	Dist	(uV/m)	(dBuV/m)			
0.009 - 0.490	2400 / F(KHz)	300m	10000 * 2400/F(KHz)	20log 2400/F(KHz) + 80			
0.490 – 1.705	24000 / F(KHz)	30m	100 * 24000/F(KHz)	20log 24000/F(KHz) + 40			
1.705 – 30.00	30	30m	100* 30	20log 30 + 40			
30.0 - 88.0	100	3m	100	20log 100			
88.0 – 216.0	150	3m	150	20log 150			
216.0 - 960.0	200	3m	200	20log 200			
Above 960.0	500	3m	500	20log 500			

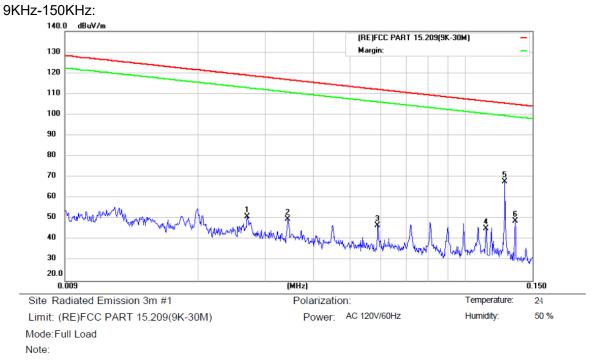
15.205 Restricted bands of operation

MHz	MHz	MHz	GHz
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
10.495-0.505	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7
6.26775-6.26825	123-138	2200-2300	14.47-14.5
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4
8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
12.57675-12.57725	322-335.4	3600-4400	(2)
13.36-13.41			

Remark: 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. 3. Only spurious frequency is permitted to locate within the Restricted Bands specified in provision of ξ 15.205, and the emissions located in restricted bands also comply with 15.209 limit.

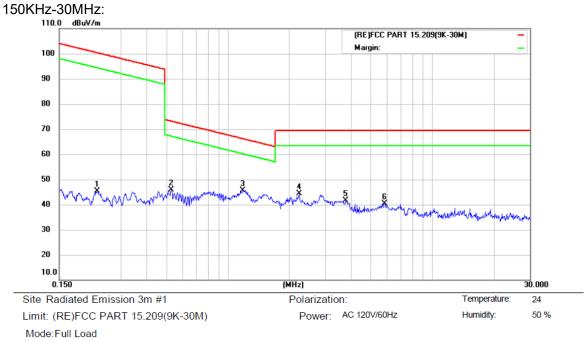




6.4. Measurement Result

No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1	0.0269	30.37	20.59	50.96	118.85	-67.89	peak			
2	0.0343	29.25	20.63	49.88	116.76	-66.88	peak			
3	0.0589	25.99	20.75	46.74	112.09	-65.35	peak			
4	0.1135	24.54	20.70	45.24	106.43	-61.19	peak			
5 *	0.1270	47.37	20.37	67.74	105.46	-37.72	peak			
6	0.1350	28.53	20.29	48.82	104.93	-56.11	peak			

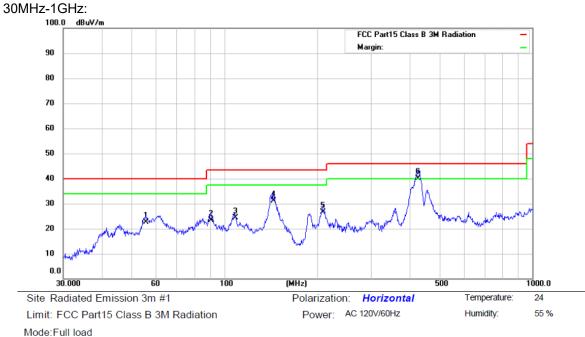




Note:

No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1	0.2290	24.96	20.45	45.41	100.37	-54.96	peak			
2	0.5292	24.82	21.01	45.83	73.13	-27.30	QP			
3 *	1.1842	24.61	21.06	45.67	66.16	-20.49	QP			
4	2.2366	23.46	20.81	44.27	69.50	-25.23	QP			
5	3.7793	20.96	20.60	41.56	69.50	-27.94	QP			
6	5.8357	19.91	20.57	40.48	69.50	-29.02	QP			

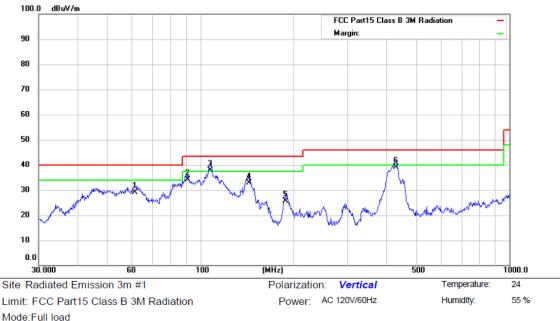




Note:

No.	Mk	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		55.6094	44.00	-21.40	22.60	40.00	-17.40	QP			
2		90.2205	48.24	-24.74	23.50	43.50	-20.00	QP			
3		108.2667	47.64	-23.14	24.50	43.50	-19.00	QP			
4		144.3348	58.77	-27.57	31.20	43.50	-12.30	QP			
5		209.3129	50.51	-23.91	26.60	43.50	-16.90	QP			
6	*	426.5210	58.25	-18.15	40.10	46.00	-5.90	QP			





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Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		61.3463	52.64	-23.54	29.10	40.00	-10.90	QP			
2		90.8554	58.94	-24.74	34.20	43.50	-9.30	QP			
3	*	107.8877	61.00	-23.10	37.90	43.50	-5.60	QP			
4		143.3261	60.49	-27.59	32.90	43.50	-10.60	QP			
5		189.0743	49.47	-23.87	25.60	43.50	-17.90	QP			
6		428.0193	57.29	-18.19	39.10	46.00	-6.90	QP			



7. ANNTENNA APPLICATION

7.1. Antenna Requirement

Standard	Requirement
FCC CRF Part 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 shall be considered sufficient to comply with the provisions of this section. 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. This requirement does not apply to carrier current devices or to devices operated under the provisions of §15.211, §15.213, §15.217, §15.219, or §15.221. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with §15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.

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.

7.2. Result

Pass

Note: The EUT has 1 antenna: The internal antenna gain is 0 dBi;

Antenna use a permanently attached antenna which is not replaceable.

Not using a standard antenna jack or electrical connector for antenna replacement

The antenna has to be professionally installed (please provide method of installation)

which in accordance to section 15.203, please refer to the internal photos.

*** End of Report ***

EMTEK(Ningbo) Co., Ltd.



声明

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