

FCC TEST REPORT

Client Information:

Applicant: TANKYA DEVELOPING CO., LIMITED

6F, B Building of Tengyao Technology Park, 2nd Gushu Road, Xixiang, Applicant add.:

Baoan, Shenzhen, China

Manufacturer: SHENZHEN SHOUERNUO TECHNOLOGY CO.,LTD

9F, Building 5, Hanhaida High-tech Industrial Park, Tianliao 10th Industrial Manufacturer add.:

Zone, Yutang Street, Guangming District, Shenzhen City, China

Product Information:

Product Name: Qi2 wireless charger

> Model No.: TKWC-028, TKWC-019, TKWC-021, TKWC-022, LGX-13700

Brand Name: N/A

FCC ID: 2AV8L-TKWC-028

Applicable standards: FCC CFR Title 47 Part 15 Subpart C

Prepared By:

Dongguan Yaxu (AiT) Technology Limited

No.22, Jingianling 3rd Street, Jitigang, Huangjiang, Dongguan,

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May 06, 2024 Date of Receipt: Date of Test: May 06, 2024~May 10, 2024

Date of Issue: May 11, 2024 Test Result: Pass

This device described above has been tested by Dongguan Yaxu (AiT) Technology Limited 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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Reviewed by: EMIYA LIN
Emiya Lin

Approved by: Gimba Huah



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Report Revise Record

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	1	May 11, 2024	Valid	Initial release



Test Summary

Test Item	Section in CFR 47	Result
Antenna requirement	15.203	Pass
AC Power Line Conducted Emission	15.207	Pass
Spurious Emission	15.209(a)(f)	Pass
20dB Bandwidth	15.215	Pass

Note

- 1. Test according to ANSI C63.10:2013.
- 2. The measurement uncertainty is not included in the test result.
- 3. Test results in other test report (RF Exposure Evaluation Report)

2.1 **Statement of the Measurement Uncertainty**

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report acc. To CISPR 16 – 4 "Specification for radio disturbance and immunity measuring apparatus and methods - Part 4: Uncertainty in EMC Measurements" and is documented in the AiT quality system acc. To DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

2.2 Measurement Uncertainty

Test Item	Frequency Range	Measurement Uncertainty	Notes
Radiated Emission	0.009MHz-30MHz	3.10dB	(1)
Radiated Emission	30MHz-1GHz	3.75dB	(1)
Radiated Emission	1GHz-18GHz	3.88dB	(1)
Radiated Emission	18GHz-40GHz	3.88dB	(1)
AC Power Line Conducted Emission	0.15MHz ~ 30MHz	1.20dB	(1)
Note (1): The measurement up	certainty is for coverage factor	of k=2 and a level of confidence	e of 95%

Note (1): The measurement uncertainty is for coverage factor of k=2 and a level of confidence of 95%.



3 Test Facility

The test facility is recognized, certified or accredited by the following organizations: .CNAS- Registration No: L6177

Dongguan Yaxu (AiT) technology Limited is accredited to ISO/IEC 17025:2017 general Requirements for the competence of testing and calibration laboratories (CNAS-CL01 Accreditation Criteria for the competence of testing and calibration laboratories) on April 18, 2022

FCC-Registration No.: 703111 Designation Number: CN1313

Dongguan Yaxu (AiT) technology Limited has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files.

IC —Registration No.: 6819A CAB identifier: CN0122

The 3m Semi-anechoic chamber of Dongguan Yaxu (AiT) technology Limited has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 6819A

A2LA-Lab Cert. No.: 6317.01

Dongguan Yaxu (AiT) technology Limited has been accredited by A2LA for technical competence in the field of electrical testing, and proved to be in compliance with ISO/IEC 17025: 2017 General Requirements for the Competence of Testing and Calibration Laboratories and any additional program requirements in the identified field of testing.

3.1 Deviation from standard

None

3.2 Abnormalities from standard conditions

None

3.3 Test Location

Dongguan Yaxu (AiT) Technology Limited

Address: No.22, Jinqianling 3rd Street, Jitigang, Huangjiang, Dongguan, Guangdong, China

Tel.: +86-769-8202 0499 Fax.: +86-769-8202 0495



4 General Information

EUT Name:	Qi2 wireless charger
Model No:	TKWC-028
Serial Model:	TKWC-019, TKWC-021, TKWC-022, LGX-13700
Test sample(s) ID:	24050605
Sample(s) Status:	Engineer sample
Serial No.:	N/A
Operation frequency:	113kHz-205kHz,360kHz
Modulation Technology:	ASK
Antenna Type:	loop coil Antenna
Antenna gain:	0dBi
Hardware version.:	N/A
Software version.:	N/A
Dower oupply	Input :5V3A,9V2.22A
Power supply:	Output:5W/7.5W/15W
Model different:	PCB board, structure and internal of these model(s) are the same, So no
iviouei uillerent.	additional models were tested.
Note:	For a more detailed features description, please refer to the manufacturer's
Note.	specifications or the User's Manual.



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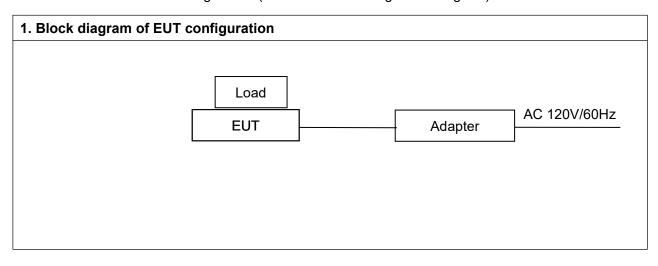
4.1 EUT Test Mode

Equipment under test was operated during the measurement under the following conditions:

	Test Mode	Description			
	Mode 1	AC Adapter + EUT+Load	Record		
	Mode 2	Test the EUT in idle mode.	Pre-tested		
١	Note: All test modes were pre-tested, but we only recorded the worst case in this report.				

4.2 Description of Test setup

EUT was tested in normal configuration (Please See following Block diagram)





4.3 Peripheral List

N	Equipment	Manufacturer	Model No.	Serial No.	Power cord	signal cable	
Ο.	qp		model ito.			orginal outro	
1	Wireless charger receiver	EESON	15W	N/A	N/A	N/A	
2	Adapter	SOY	SOY-30W-261US	N/A	N/A	N/A	

4.4 EUT Peripheral List

No.	Equipment	Manufacturer	EMC Compliance	Model No.	Serial No.	Power cord	signal cable
1	N/A	N/A	N/A	N/A	N/A	N/A	N/A



5 Equipments List for All Test Items

No	Test Equipment	Manufacturerr	Model No	Serial No	Cal. Date	Cal. Due Date
1	Spectrum Analyzer	R&S	FSV40	101470	2023.09.08	2024.09.07
2	EMI Measuring Receiver		ESR	101660	2023.09.08	2024.09.07
3	Low Noise Pre Amplifier	HP	HP8447E	1937A01855	2023.09.08	2024.09.07
4	Low Noise Pre Amplifier	Tsj	MLA-0120-A02- 34	2648A04738	2023.09.08	2024.09.07
5	Passive Loop	ETS	6512	00165355	2022.09.04	2024.09.03
6	TRILOG Super Broadband test Antenna	SCHWARZBECK	VULB9160	9160-3206	2021.08.29	2024.08.28
7	Broadband Horn Antenna	SCHWARZBECK	BBHA9120D	452	2021.08.29	2024.08.28
8	SHF-EHF Horn Antenna 15-40GHz	SCHWARZBECK	BBHA9170	BBHA917036 7d	2023.09.12	2026.09.11
9	EMI Test Receiver	R&S	ESCI	100124	2023.09.08	2024.09.07
10	LISN	Kyoritsu	KNW-242	8-837-4	2023.09.08	2024.09.07
11	LISN	R&S	ESH3-Z5	0357.8810.54- 101161-S2	2023.09.08	2024.09.07
12	Pro.Temp&Humi.chamber	MENTEK	MHP-150-1C	MAA0811250 1	2023.09.08	2024.09.07
13	RF Automatic Test system	MW	MW100-RFCB	21033016	2023.09.08	2024.09.07
14	Signal Generator	Agilent	N5182A	MY50143009	2023.09.08	2024.09.07
15	Wideband Radio communication tester	R&S	CMW500	1201.0002K5 0	2023.09.08	2024.09.07
16	RF Automatic Test system	MW	MW100-RFCB	21033016	2023.09.08	2024.09.07
17	Pulse Limiter	R&S	ESH3-Z2	03578810.54	2023.09.08	2024.09.07
18	Switch	MFJ Rhinos	MFJ-2702	CZ3457	2023.09.08	2024.09.07
19	DC power supply	ZHAOXIN	RXN-305D-2	2807000255 9	N/A	N/A
20	RE Software	EZ	EZ-EMC_RE	Ver.AIT-03A	N/A	N/A
21	CE Software	EZ	EZ-EMC_CE	Ver.AIT-03A	N/A	N/A



Report No.: AIT24050605FW1 Page 11 of 24 22 RF Software MW MTS 8310 2.0.0.0 N/A N/A temporary antenna 23 NTS R001 N/A N/A N/A connector(Note)



6 CONDUCTED EMISSION TEST

6.1 CONDUCTED EMISSION MEASUREMENT

Test Requirement:	FCC Part15 C Section 15.207
Test Method:	ANSI C63.10:2013
Test Frequency Range:	150KHz to 30MHz
Receiver setup:	RBW=9KHz, VBW=30KHz, Sweep time=auto

6.2 POWER LINE CONDUCTED EMISSION Limits

FREQUENCY (MHz)	Limit (d	Standard	
PREQUENCY (MIDZ)	Quas-peak	Average	Standard
0.15 -0.5	66 - 56 *	56 - 46 *	FCC
0.50 -5.0	56.00	46.00	FCC
5.0 -30.0	60.00	50.00	FCC

Note:

(1) *Decreases with the logarithm of the frequency.

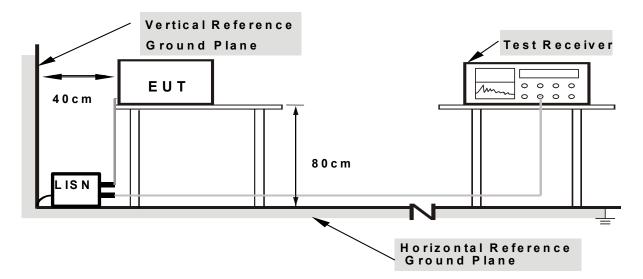
6.3 TEST PROCEDURE

- a. The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- b. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- c. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- d. LISN at least 80 cm from nearest part of EUT chassis.
- e. For the actual test configuration, please refer to the related Item -EUT Test Photos.

6.4 DEVIATION FROM TEST STANDARD

No deviation

6.5 TEST SETUP



Note: 1.Support units were connected to second LISN.

2.Both of LISNs (AMN) are 80 cm from EUT and at least 80 from other units and other metal planes

6.6 EUT OPERATING CONDITIONS

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.

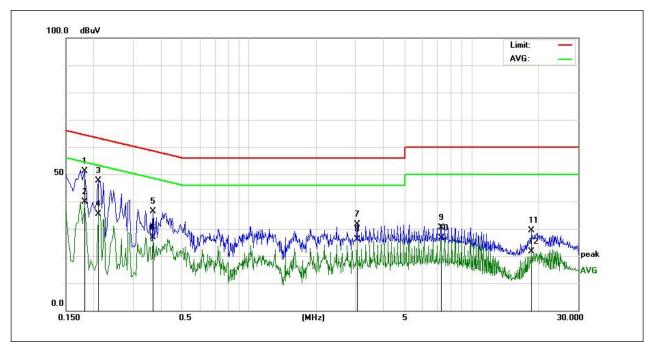
We pretest AC 120V and AC 230V, the worst voltage was AC 120V and the data recording in the report.



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6.7 Test Result

Temperature:	25.5℃	Relative Humidity:	52.3%
Pressure:	101kPa	Phase :	L
Test Voltage:	AC 120V/60Hz		



Remark: Factor =insertion loss of LISN + Cable loss +insertion loss of Pulse Limiter +insertion loss of Switch.

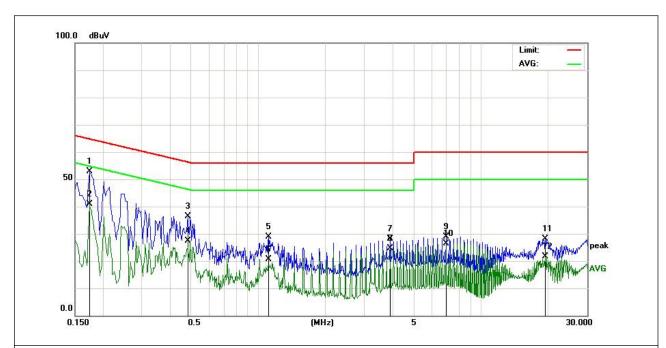
Measurement Result=Reading Level +Correct Factor;

Over Limit= Measurement Result- Limit;

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB	dBu∀	dBu∀	dB	Detector
1	*	0.1819	39.76	11.36	51.12	64.39	-13.27	QP
2		0.1819	28.56	11.36	39.92	54.39	-14.47	AVG
3		0.2100	36.63	11.06	47.69	63.20	-15.51	QP
4		0.2100	24.29	11.06	35.35	53.20	-17.85	AVG
5		0.3700	26.26	10.12	36.38	58.50	-22.12	QP
6		0.3700	16.65	10.12	26.77	48.50	-21.73	AVG
7		3.0460	21.70	9.98	31.68	56.00	-24.32	QP
8		3.0460	16.27	9.98	26.25	46.00	-19.75	AVG
9		7.2540	20.27	10.11	30.38	60.00	-29.62	QP
10		7.2540	16.55	10.11	26.66	50.00	-23.34	AVG
11		18.5620	27.71	1.56	29.27	60.00	-30.73	QP
12	- 1	18.5620	20.07	1.56	21.63	50.00	-28.37	AVG



Temperature:	25.5℃	Relative Humidity:	52.3%
Pressure:	101kPa	Phase :	N
Test Voltage:	AC 120V/60Hz		



Remark: Factor =insertion loss of LISN + Cable loss +insertion loss of Pulse Limiter +insertion loss of Switch.

Measurement Result=Reading Level +Correct Factor;

Over Limit= Measurement Result- Limit;

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB	dBu∀	dBu∀	dB	Detector
1	*	0.1740	41.28	11.48	52.76	64.76	-12.00	QP
2		0.1740	29.29	11.48	40.77	54.76	-13.99	AVG
3		0.4820	26.46	10.00	36.46	56.30	-19.84	QP
4		0.4820	17.42	10.00	27.42	46.30	-18.88	AVG
5		1.1140	18.93	9.90	28.83	56.00	-27.17	QP
6		1.1140	10.70	9.90	20.60	46.00	-25.40	AVG
7		3.9140	18.02	10.00	28.02	56.00	-27.98	QP
8		3.9140	14.60	10.00	24.60	46.00	-21.40	AVG
9		6.9620	18.82	10.11	28.93	60.00	-31.07	QP
10		6.9620	16.16	10.11	26.27	50.00	-23.73	AVG
11		19.4340	26.59	1.63	28.22	60.00	-31.78	QP
12	1 9	19.4340	20.02	1.63	21.65	50.00	-28.35	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.



7 RADIATED EMISSION MEASUREMENT

FCC Part15 C Section 15.209											
ANSI C63.10:2013	ANSI C63.10:2013										
9kHz to 1GHz	9kHz to 1GHz										
Measurement Dista	Measurement Distance: 3m										
Frequency	Detector	RBW	VBW	Value							
9KHz-150KHz	Quasi-peak	200Hz	600Hz	Quasi-peak							
150KHz-30MHz	Quasi-peak	9KHz	30KHz	Quasi-peak							
30MHz-1GHz	Quasi-peak	100KHz	300KHz	Quasi-peak							
Above 10Hz	Peak	1MHz	3MHz	Peak							
Above IGHZ	Peak	1MHz	10Hz	Average							
	ANSI C63.10:2013 9kHz to 1GHz Measurement Dista Frequency 9KHz-150KHz 150KHz-30MHz	ANSI C63.10:2013 9kHz to 1GHz Measurement Distance: 3m Frequency Detector 9KHz-150KHz Quasi-peak 150KHz-30MHz Quasi-peak 30MHz-1GHz Quasi-peak Above 1GHz	ANSI C63.10:2013 9kHz to 1GHz Measurement Distance: 3m Frequency Detector RBW VBW Value 9KHz-150KHz Quasi-peak 200Hz 600Hz Quasi-peak 150KHz-30MHz Quasi-peak 9KHz 30KHz Quasi-peak 30MHz-1GHz Quasi-peak 100KHz 300KHz Quasi-peak Peak 1MHz 3MHz Peak								

7.1 Radiated Emission Limits

Limits for frequency below 30MHz

Frequency	Limit (uV/m)	Measurement Distance(m)	Remark
0.009-0.490	2400/F(kHz)	300	Quasi-peak Value
0.490-1.705	24000/F(kHz)	30	Quasi-peak Value
1.705-30	30	30	Quasi-peak Value

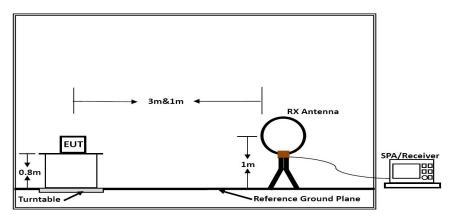
Limits for frequency Above 30MHz

Frequency	Limit (dBuV/m @3m)	Remark
30MHz-88MHz	40.00	Quasi-peak Value
88MHz-216MHz	43.50	Quasi-peak Value
216MHz-960MHz	46.00	Quasi-peak Value
960MHz-1GHz	54.00	Quasi-peak Value
	54.00	Average Value
Above 1GHz	74.00	Peak Value



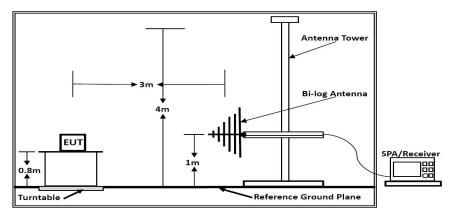
7.2 Anechoic Chamber Test Setup Diagram

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



Below 30MHz

(B) Radiated Emission Test-Up Frequency 30MHz~1GHz



Below 1GHz

The radiated emission tests were performed in the 3 meters chamber test site, using the setup accordance with the ANSI C63.10-2013. The specification used was the FCC 15.209 and FCC 15.205 limits.

7.3 Test Procedure

The EUT is placed on a turn table which is 0.8 meter above ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level. The EUT is set 3 meters away from the receiving antenna which is mounted on a antenna tower. The antenna can move up and down between 1 to 4 meters to find out the maximum emission level. Broadband antenna (calibrated by dipole antenna) are used as a receiving antenna. Both horizontal and vertical polarization of the antenna are set on measurement.

7.4 DEVIATION FROM TEST STANDARD

No deviation



7.5 Test Result

We pretest AC 120V and AC 230V in full load, half load and no load, the worst voltage was AC 120V in full load and the data recording in the report.

Measurement data:

Note: Limit dBuV/m @3m = Limit dBuV/m @300m+ 80

Limit dBuV/m @3m = Limit dBuV/m @30m + 40

Mode1:

9 kHz~30 MHz

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB/m)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
0.0417	-8.65	55.25	46.60	115.08	-68.48	Quasi-Peak
0.1272	40.58	40.68	81.26	105.45	-24.19	Peak
0.1272	27.43	40.68	68.11	105.45	-37.34	Average
0.6209	17.51	29.69	47.20	71.75	-24.55	Quasi-Peak
2.1141	21.35	21.65	43.00	69.50	-26.50	Quasi-Peak
4.0784	25.75	16.45	42.20	69.50	-27.30	Quasi-Peak
16.4599	23.16	13.54	36.70	69.50	-32.80	Quasi-Peak

Note:

Pre-scan in the all of mode, the worst case in of was recorded.

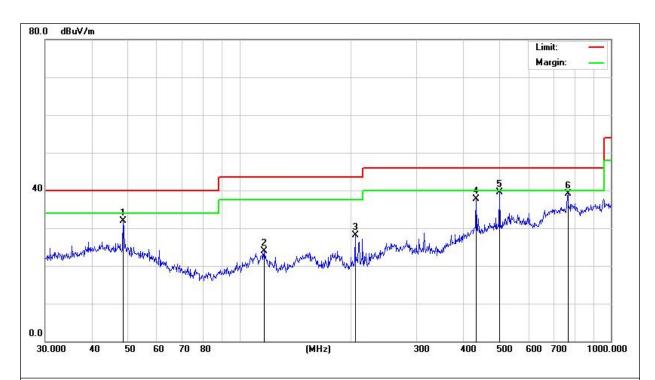
Factor = antenna factor + cable loss – pre-amplifier.

Margin = Emission Level- Limit.



30MHz-1GHz

Temperature:	25.5℃	Relative Humidity:	52.3%
Pressure:	101 kPa	Polarization:	Horizontal
Test Voltage:	AC 120V/60Hz		



Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.

Measurement Result=Reading Level +Correct Factor;

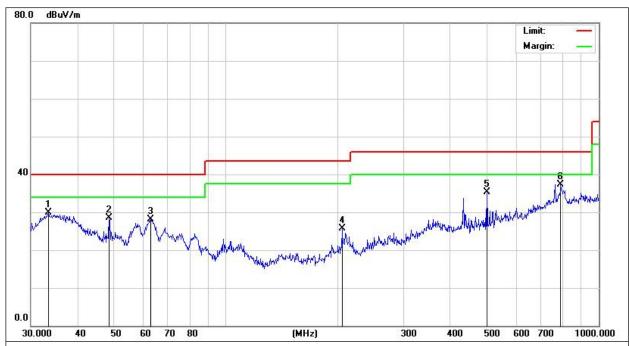
Over Limit= Measurement Result- Limit;

No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBu∀	dB	dBuV/m	dBuV/m	dB	Detector
1		48.6719	29.21	2.75	31.96	40.00	-8.04	QP
2		116.5401	25.43	-1.58	23.85	43.50	-19.65	QP
3		204.9551	29.31	-1.27	28.04	43.50	-15.46	QP
4	1	434.0651	30.24	7.41	37.65	46.00	-8.35	QP
5	*	501.1790	31.02	8.44	39.46	46.00	-6.54	QP
6		766.0571	26.79	12.39	39.18	46.00	-6.82	QP



Temperature:	25.5℃	Relative Humidity:	52.3%
Pressure:	101kPa	Polarization:	Vertical
Test Voltage:	AC 120V/60Hz		

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Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.

Measurement Result=Reading Level +Correct Factor;

Over Limit= Measurement Result- Limit;

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBu∀	dB	dBuV/m	dBuV/m	dB	Detector
1		33.4449	28.85	0.98	29.83	40.00	-10.17	QP
2		48.6719	28.26	0.17	28.43	40.00	-11.57	QP
3		62.8708	30.37	-2.32	28.05	40.00	-11.95	QP
4		204.9551	25.11	0.52	25.63	43.50	-17.87	QP
5		501.1790	30.49	4.89	35.38	46.00	-10.62	QP
6	*	790.6188	24.40	12.87	37.27	46.00	-8.73	QP

Remarks:

1. The emission levels of other frequencies are very lower than the limit and not show in test report.

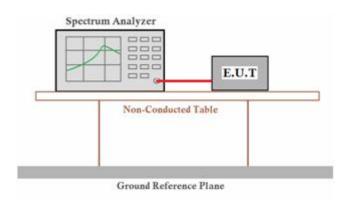


8 BANDWIDTH TEST

8.1 Test Procedure

- 1. Set RBW = 30Hz.
- 2. Set the video bandwidth (VBW) \geq 3 x RBW.
- 3. Detector = Peak.
- 4. Trace mode = max hold.
- 5. Sweep = auto couple.
- 6. Allow the trace to stabilize.
- 7. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 20 dB relative to the maximum level measured in the fundamental emission.

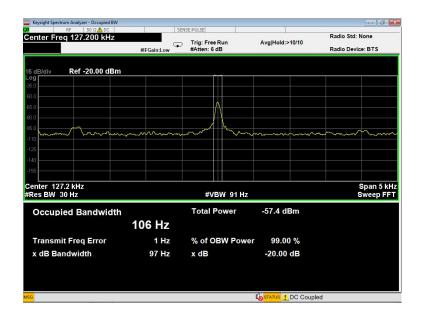
8.2 Test setup

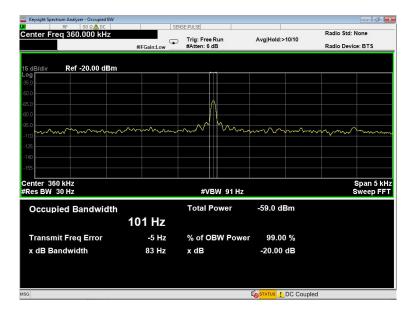




Temperature:	20 ℃	Relative Humidity:	44%
Pressure:	101kPa		

Frequency (KHz)	20dB bandwidth (KHz)	99% bandwidth (KHz)	Result
127.2	0.097	-	Pass
360.0	0.083	-	Pass







9 ANTENNA REQUIREMENT:

Standard requirement: FCC Part15 C 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.

EUT Antenna:

The antenna is Inductive loop coil Antenna, the best case gain of the antenna is 0dBi, reference to the appendix for details.



10 Test Setup Photographs of EUT

Please refer to separated files for Test Setup Photos of the EUT.

11 External Photographs of EUT

Please refer to separated files for External Photos of the EUT.

12 Internal Photographs of EUT

Please refer to separated files for Internal Photos of the EUT.

** End of report **