

TEST REPORT

Product Name Qi2 2 in 1 wireless charge stand

Brand Name N/A

Model TKWC-029B

Series Model TKWC-029B-2, TKWC-029B-3

FCC ID 2AV8L-TKWC-029B

Applicant TANKYA DEVELOPING CO., LIMITED

Address : 6F, Building B, TengYao Technology Park, Gushu 2nd Road,

Xixiang Town, Bao'an District, Shenzhen, China 518126

Manufacturer : SHENZHEN SHOUERNUO TECHNOLOGY CO.,LTD

Address Room 901, Building 5, 10th Industrial Zone, Tianliao Community,

Yutang Street, Guangming District, Shenzhen, 518127,

Guangdong, China

Standard(s) : FCC CFR Title 47 Part 15 Subpart C

Date of Receipt : Aug.20, 2024

Date of Test Aug.20, 2024~ Sept.04, 2024

Issued Date Sept.04, 2024

Issued By: **Guangdong Asia Hongke Test Technology Limited**

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Reviewed by:

Leon.yi Approved by:

Note: This device has been tested and found to comply with the standard(s) listed, this test report merely corresponds to the test sample. It is not permitted to copy extracts of these test result without the written permission of the test laboratory. This report shall not be reproduced except in full, without the written approval of Guangdong Asia Hongke Test Technology Limited. If there is a need to alter or revise this document, the right belongs to Guangdong Asia Hongke Test Technology Limited, and it should give a prior written notice of the revision document. This test report must not be used by the client to claim product endorsement.



Report Revise Record

Report Version	Issued Date	Notes	
M1	Sept.04, 2024	Initial Release	



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TEST SUMMARY

1.1 Test Standards

The tests were performed according to following standards:

FCC Rules Part 15.207,15.209, 15.215(c)

ANSI C63.10: 2013: American National Standard for Testing Unlicensed Wireless Devices

1.2 Test Summary

Test Item	Section in CFR 47	Test Result
Electric Field Radiated Emissions	FCC Part 15 C (Section15.209)	PASS
20dB Bandwidth/99% Bandwidth	FCC Part 15 C (Section15.215(c))	PASS
AC Power Line Conducted Emission	FCC Part 15 C (Section15.207)	PASS
Antenna Requirement	FCC Part 15 C (Section15.203	PASS



1.3 Test Facility

Test Laboratory:

Guangdong Asia Hongke Test Technology Limited

B1/F, Building 11, Junfeng Industrial Park, Chongqing Road, Heping Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China

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

FCC-Registration No.: 251906 Designation Number: CN1376

Guangdong Asia Hongke Test 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.: 31737 CAB identifier: CN0165

The 3m Semi-anechoic chamber of Guangdong Asia Hongke Test Technology Limited has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 31737

A2LA-Lab Cert. No.: 7133.01

Guangdong Asia Hongke Test 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.

1.4 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 according 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 Guangdong Asia Hongke Test Technology Limited's quality system according 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.

Hereafter the best measurement capability for Asia Hongke laboratory is reported:

Test	Measurement Uncertainty	Notes
Power Line Conducted Emission	150KHz~30MHz ±1.20 dB	(1)
Radiated Emission	9KHz~30Hz ±3.10dB	(1)
Radiated Emission	9KHz~1GHz \pm 3.75dB	(1)
Radiated Emission	1GHz~18GHz ±3.88 dB	(1)
Radiated Emission	18GHz-40GHz ±3.88dB	(1)
RF power, conducted	30MHz~6GHz \pm 0.16dB	(1)
RF power density, conducted	\pm 0.24dB	(1)
Spurious emissions, conducted	\pm 0.21dB	(1)
Temperature	±1°C	(1)
Humidity	±3%	(1)
DC and low frequency voltages	±1.5%	(1)
Time	±2%	(1)
Duty cycle	±2%	(1)

The report uncertainty of measurement $y \pm U$, where expended uncertainty U is based on a standard uncertainty Multiplied by a coverage factor of k=2, providing a level of confidence of approximately 95%



2 GENGENERAL INFORMATION

2.1 Environmental conditions

During the measurement the environmental conditions were within the listed ranges:

Normal Temperature:	25°C		
Relative Humidity:	55 %		
Air Pressure:	101 kPa		

2.2 General Description of EUT

Product Name:	Qi2 2 in 1 wireless charge stand
Model/Type reference:	TKWC-029B
Power Supply:	Input: DC5V=3A,9V=3A Wireless output for iPhone: 5W/7.5W/10W/15W Wireless output for Airpods: 5W USB C Output: 5W
Hardware version:	N/A
Software version:	N/A
Sample(s) Status:	AiTSZ-240820002-01(Normal sample) AiTSZ-240802003-02(Engineer sample)
Wireless Charger:	
Operation frequency:	Coil1: For Phone: 110kHz-205kHz, 360kHz Coil2: For Earphone: 110kHz-205kHz
Modulation Technology:	ASK
Antenna Type:	Loop coil Antenna
Antenna gain:	0dBi

Remark:

The above DUT's information was declared by manufacturer. For more detailed features description, please refer to the manufacturer's specifications or the User's Manual.



2.3 Description of the test mode

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

Charging and communication mode

Test Mod	es:	
Mode 1	AC Adapter + EUT + Earphone+ Phone (Battery Status: < 1%)	Recorded
Mode 2	AC Adapter + EUT + Earphone+ Phone (Battery Status: < 50%)	Pre-tested
Mode 3	AC Adapter + EUT + Earphone+ Phone (Battery Status: < 99%)	Pre-tested
Mode 4	AC Adapter + EUT + Earphone	Pre-tested
Mode 5	AC Adapter + EUT+ Phone (Battery Status: < 1%)	Pre-tested
Mode 6	AC Adapter + EUT+ Phone (Battery Status: < 50%)	Pre-tested
Mode 7	AC Adapter + EUT+ Phone (Battery Status: < 99%)	Pre-tested
Mode 8	Stand-by mode.	Pre-tested
Noto: All	tost modes were pre-tosted, but we only recorded the werst case in this report	•

Note: All test modes were pre-tested, but we only recorded the worst case in this report.

2.4 Special Accessories

Follow auxiliary equipment(s) test with EUT that provided by the manufacturer or laboratory is listed as follow:

Description	Manufacturer	Model	Serial No.	Provided by	Other		
Adapter	HNT	HNT-QC530	/	Test lab	/		
Phone	OSCAL	PILOT2	/	Test lab	/		
Phone	Apple	iphone 14	/	Test lab	15W		
Earphone	PocBuds	K6	/	Test lab	/		

2.5 Equipment List for the Test

No	Test Equipment	Manufacturer	Model No	Serial No	Pre.Cal. Date	New Cal. Date	Cal. Due Date
1	Spectrum Analyzer	R&S	FSV40	101470	2023.09.08		2024.09.07
2	Spectrum Analyzer	Keysight	N9020A	MY51280643	2023.09.08	1	2024.09.07
3	EMI Measuring Receiver	R&S	ESR	101660	2023.09.08	1	2024.09.07
4	Low Noise Pre-Amplifier	HP	HP8447E	1937A01855	2023.09.08		2024.09.07
5	Low Noise Pre-Amplifier	Tsj	MLA-0120- A02-34	2648A04738	2023.09.08		2024.09.07
6	Passive Loop	ETS	6512	00165355	2022.09.04	2024.09.03	2026.09.06
7	TRILOG Super Broadband test Antenna	SCHWARZBECK	VULB9160	9160-3206	2021.08.29	2024.08.28	2027.08.27
8	Broadband Horn Antenna	SCHWARZBECK	BBHA9120D	452	2021.08.29	2024.08.28	2027.08.27
9	SHF-EHF Horn Antenna 15-40GHz	SCHWARZBECK	BBHA9170	BBHA9170367d	2021.08.29	2024.08.28	2027.08.27
10	EMI Measuring Receiver	R&S	ESR	101160	2023.09.13	1	2024.09.12
11	LISN	SCHWARZBECK	NNLK 8129	8130179	2023.10.29		2024.10.28



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12	Pulse Limiter	R&S	ESH3-Z2	102789	2023.09.13		2024.09.12
13	Pro.Temp&Humi.chamber	MENTEK	MHP-150-1C	MAA08112501	2023.09.08		2024.09.07
14	RF Automatic Test system	MVV	MW100- RFCB	21033016	2023.09.08		2024.09.07
15	Signal Generator	Agilent	N5182A	MY50143009	2023.09.08		2024.09.07
16	Wideband Radio communication tester	R&S	CMW500	1201.0002K50	2023.09.08		2024.09.07
17	RF Automatic Test system	MW	MW100- RFCB	21033016	2023.09.08		2024.09.07
18	DC power supply	ZHAOXIN	RXN-305D-2	28070002559	N/A	N/A	N/A
19	RE Software	EZ	EZ-EMC_RE	Ver.AIT-03A	N/A	N/A	N/A
20	CE Software	EZ	EZ-EMC_CE	Ver.AIT-03A	N/A	N/A	N/A
21	RF Software	MW	MTS 8310	2.0.0.0	N/A	N/A	N/A
22	temporary antenna connector(Note)	NTS	R001	N/A	N/A	N/A	N/A
Note	: The temporary antenna conne	ector is soldered on the	ne PCB board in	order to perform con	ducted tests ar	nd this	

temporary antenna connector is listed in the equipment list.



TEST CONDITIONS AND RESULTS

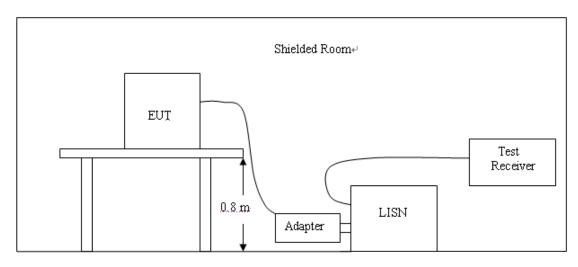
3.1 Conducted Emissions Test

LIMIT

Frequency range (MHz)	Limit (d	BuV)
Frequency range (MHZ)	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.

TEST CONFIGURATION



TEST PROCEDURE

- The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. The EUT is a tabletop system; a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per ANSI C63.10:2013.
- 2. Support equipment, if needed, was placed as per ANSI C63.10:2013.
- 3. All I/O cables were positioned to simulate typical actual usage as per ANSI C63.10:2013.
- The adapter received AC120V/60Hz power through a Line Impedance Stabilization Network (LISN) which supplied power source and was grounded to the ground plane.
- 5. All support equipments received AC power from a second LISN, if any.
- The EUT test program was started. Emissions were measured on each current carrying line of the EUT using a spectrum Analyzer / Receiver connected to the LISN powering the EUT. The LISN has two monitoring points: Line 1 (Hot Side) and Line 2 (Neutral Side). Two scans were taken: one with Line 1 connected to Analyzer / Receiver and Line 2 connected to a 50 ohm load; the second scan had Line 1 connected to a 50 ohm load and Line 2 connected to the Analyzer / Receiver.
- Analyzer / Receiver scanned from 150 KHz to 30MHz for emissions in each of the test modes. 7.
- 8. During the above scans, the emissions were maximized by cable manipulation.

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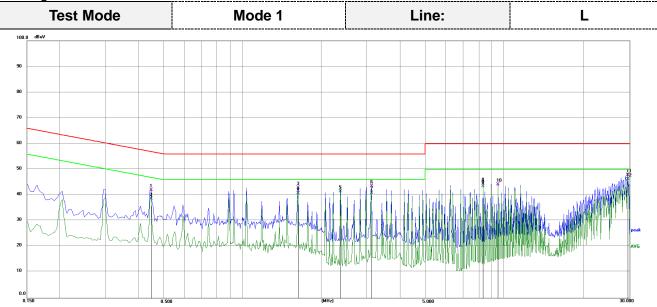
TEST RESULTS

Remark:

1. Both 120 VAC, 50/60 Hz and 240 VAC, 50/60 Hz power supply have been tested, only the worst result of 120 VAC, 60 Hz was reported as below:

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2.Test coil can be working on Non-MPP mode and MPP mode, only the worst result with phone coil working at Non-MPP mode was recorded as below:

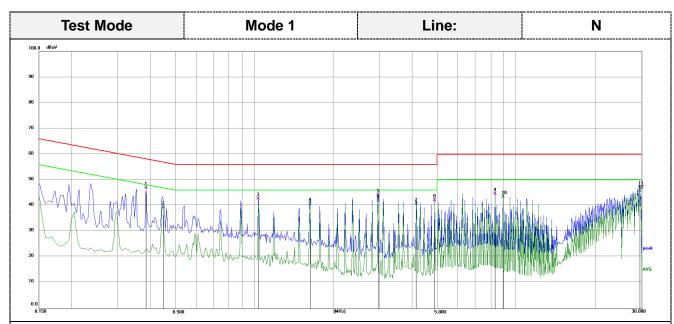


Remark: Correct Factor = Insertion loss of LISN + Cable loss + Insertion loss of Pulse Limiter; Measurement Result = Reading Level +Correct Factor;

Margin = Measurement Result- Limit

No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark	
	(MHz)	(dBuV)	(dB)	(dBuV)	(dBuV)	(dB)		
1	0.4470	31.32	10.69	42.01	56.93	-14.92	QP	
2	0.4470	27.91	10.69	38.60	46.93	-8.33	AVG	
3	1.6305	32.21	10.74	42.95	56.00	-13.05	QP	
4	1.6305	30.08	10.74	40.82	46.00	-5.18	AVG	
5	2.3685	30.69	10.79	41.48	46.00	-4.52	AVG	
6	3.1110	32.84	10.80	43.64	56.00	-12.36	QP	
7	3.1110	30.17	10.80	40.97	46.00	-5.03	AVG	
8	8.2950	33.44	11.06	44.50	60.00	-15.50	QP	
9	8.2950	32.43	11.06	43.49	50.00	-6.51	AVG	
10	9.4785	33.17	10.97	44.14	60.00	-15.86	QP	
11	29.6250	36.22	11.72	47.94	60.00	-12.06	QP	
12	29.6250	34.50	11.72	46.22	50.00	-3.78	AVG	





Remark: Correct Factor = Insertion loss of LISN + Cable loss + Insertion loss of Pulse Limiter; Measurement Result = Reading Level +Correct Factor;

Margin = Measurement Result- Limit

No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV)	(dBuV)	(dB)	
1	0.3840	36.39	10.69	47.08	58.19	-11.11	QP
2	0.4470	28.62	10.69	39.31	46.93	-7.62	AVG
3	1.0363	32.15	10.64	42.79	56.00	-13.21	QP
4	1.6305	29.99	10.73	40.72	46.00	-5.28	AVG
5	2.9624	33.38	10.78	44.16	56.00	-11.84	QP
6	2.9624	31.17	10.78	41.95	46.00	-4.05	AVG
7	4.1460	29.68	11.00	40.68	46.00	-5.32	AVG
8	4.8883	31.21	11.01	42.22	56.00	-13.78	QP
9	8.2950	33.55	11.04	44.59	60.00	-15.41	QP
10	8.8890	32.40	11.07	43.47	50.00	-6.53	AVG
11	29.6250	35.62	11.61	47.23	60.00	-12.77	QP
12	29.6250	34.12	11.61	45.73	50.00	-4.27	AVG

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3.2 Radiated Emissions

<u>Limit</u>

For intentional device, according to § 15.209(a), the general requirement of field strength of radiated emission out of authorized band shall not exceed the following table at a 3 meters measurement distance.

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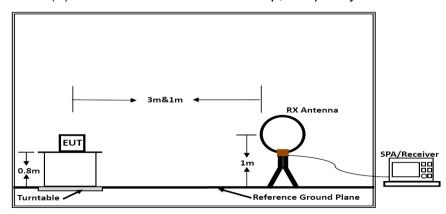
In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a)

D :: 4 I		11 14
Radiated	amiccian	limite
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Nadiated Chilosion III III							
Frequency (MHz)	Distance (Meters)	Radiated (dBµV/m)	Radiated (µV/m)				
0.009-0.49	3	20log(2400/F(KHz))+40log(300/3)	2400/F(KHz)				
0.49-1.705	3	20log(24000/F(KHz))+ 40log(30/3)	24000/F(KHz)				
1.705-30	3	20log(30)+ 40log(30/3)	30				
30-88	3	40.0	100				
88-216	3	43.5	150				
216-960	3	46.0	200				
Above 960	3	54.0	500				

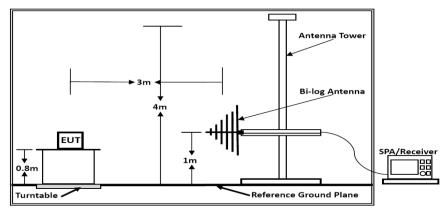
TEST CONFIGURATION

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



Below 30MHz

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

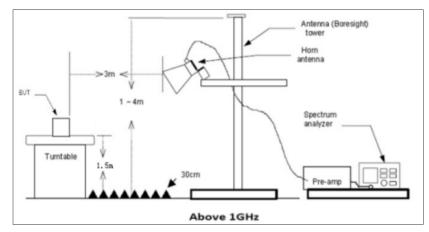


Below 1GHz



(C) Radiated Emission Test Set-Up, Frequency above 1000MHz

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Test Procedure

- 1. Below 1GHz measurement the EUT is placed on a turntable which is 0.8m above ground plane, and above 1GHz measurement EUT was placed on a low permittivity and low loss tangent turn table which is 1.5m above ground plane.
- Maximum procedure was performed by raising the receiving antenna from 1m to 4m and rotating the turn table from 0°C to 360°C to acquire the highest emissions from EUT
- And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
- Repeat above procedures until all frequency measurements have been completed. 4.
- Radiated emission test frequency band from 9KHz to 1000MHz. 5.
- The distance between test antenna and EUT as following table states: 6.

Test Frequency range	Test Antenna Type	Test Distance
9KHz-30MHz	Active Loop Antenna	3
30MHz-1GHz	Bilog Antenna	3

Setting test receiver/spectrum as following table states:

Test Frequency	Test Receiver/Spectrum Setting	Detector
range		
9KHz-150KHz	RBW=200Hz/VBW=3KHz,Sweep time=Auto	QP
150KHz-30MHz	RBW=9KHz/VBW=100KHz,Sweep time=Auto	QP
30MHz-1GHz	RBW=120KHz/VBW=1000KHz,Sweep time=Auto	QP

TEST RESULTS

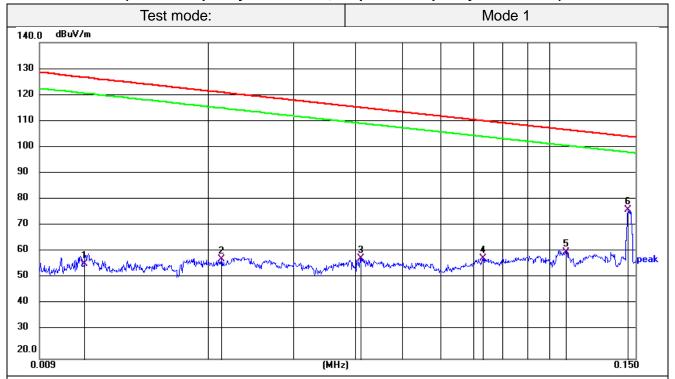
Remark:

- 1. All test modes descripted in section 2.3 has been tested, only the worst result of Mode 1 is recorded as below:
- 2. Test result for 30MHz -1GHz only show the worst case of phone coil working on Non_MPP mode.



For 9KHz-150KHz

(Phone Frequency:110-205KHz, Earphone Frequency:110-205KHz)



Remark:

Emission Level = Reading + Factor;

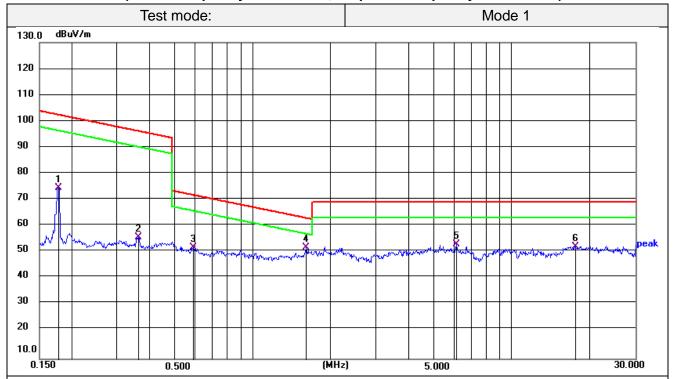
Factor = Antenna Factor + Cable Loss;

Margii	Margin = Emission Ecver - Eimit.						
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	0.0111	34.75	21.36	56.11	126.70	-70.59	QP
2	0.0212	36.89	20.87	57.76	121.08	-63.32	QP
3	0.0410	36.08	22.06	58.14	115.35	-57.21	QP
4	0.0730	35.56	22.68	58.24	110.34	-52.10	QP
5	0.1082	38.16	22.32	60.48	106.92	-46.44	QP
6	0.1450	54.53	21.95	76.48	104.38	-27.90	QP



For 150KHz-30MHz

(Phone Frequency:110-205KHz, Earphone Frequency:110-205KHz)



Remark:

Emission Level = Reading + Factor;

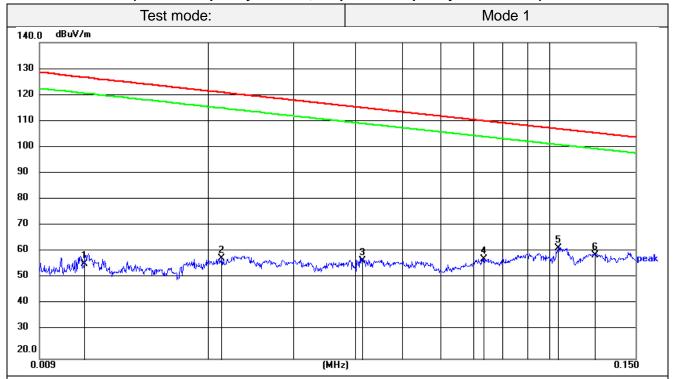
Factor = Antenna Factor + Cable Loss;

iviai giri-	vialgin Emission Level - Limit.						
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	0.1785	53.22	21.76	74.98	102.57	-27.59	QP
2	0.3613	34.50	21.58	56.08	96.45	-40.37	QP
3	0.5885	30.15	22.05	52.20	72.21	-20.01	QP
4	1.6104	29.82	22.48	52.30	63.47	-11.17	QP
5	6.1208	30.25	23.14	53.39	69.54	-16.15	QP
6	17.5670	29.13	23.50	52.63	69.54	-16.91	QP



For 9KHz-150KHz

(Phone Frequency:360KHz, Earphone Frequency:110-205KHz)

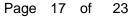


Remark:

Emission Level = Reading + Factor;

Factor = Antenna Factor + Cable Loss;

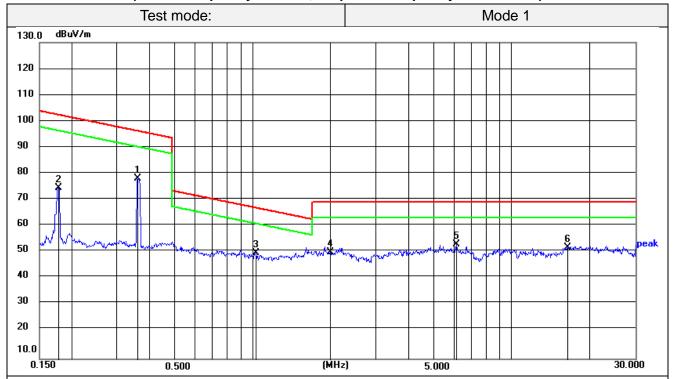
Margin.	Margin = Emission Level - Emit.						
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	0.0111	34.75	21.36	56.11	126.70	-70.59	QP
2	0.0212	37.39	20.87	58.26	121.08	-62.82	QP
3	0.0413	35.33	22.08	57.41	115.29	-57.88	QP
4	0.0734	35.12	22.68	57.80	110.29	-52.49	QP
5	0.1043	39.61	22.36	61.97	107.24	-45.27	QP
6	0.1237	37.29	22.16	59.45	105.76	-46.31	QP





For 150KHz-30MHz

(Phone Frequency:360KHz, Earphone Frequency:113-205KHz)



Remark:

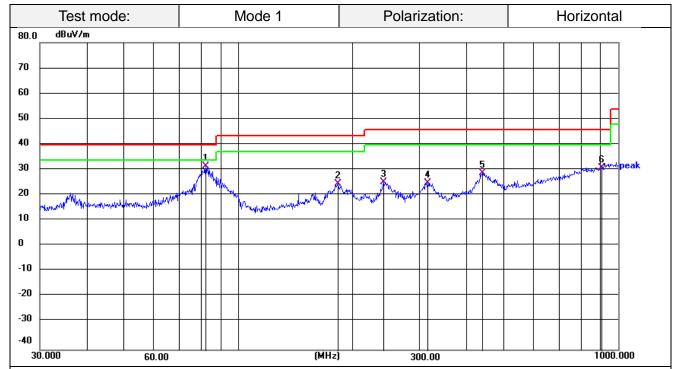
Emission Level = Reading + Factor;

Factor = Antenna Factor + Cable Loss;

Margin	wargin Emission Level - Limit.						
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	0.3600	57.00	21.58	78.58	96.48	-17.90	QP
2	0.1785	53.22	21.76	74.98	102.57	-27.59	QP
3	1.0262	27.70	22.59	50.29	67.38	-17.09	QP
4	1.9900	28.14	22.40	50.54	69.54	-19.00	QP
5	6.1208	30.25	23.14	53.39	69.54	-16.15	QP
6	16.3980	28.87	23.54	52.41	69.54	-17.13	QP







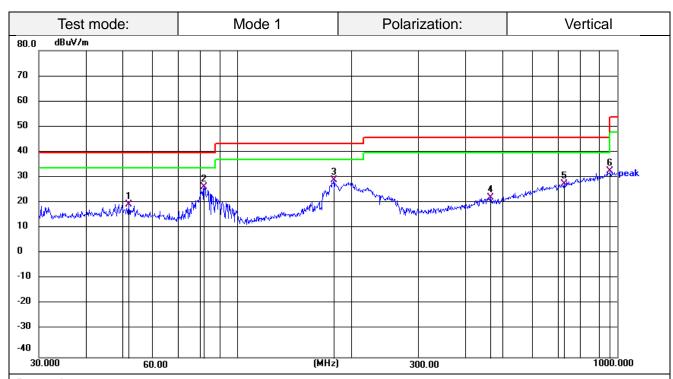
Remark:

Emission Level = Reading + Factor;

Factor = Antenna Factor + Cable Loss - Pre-amplifier;

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	82.0706	52.54	-20.95	31.59	40.00	-8.41	QP
2	183.2005	43.48	-18.68	24.80	43.50	-18.70	QP
3	240.8304	44.42	-18.84	25.58	46.00	-20.42	QP
4	315.4808	41.69	-16.49	25.20	46.00	-20.80	QP
5	438.6554	42.65	-13.53	29.12	46.00	-16.88	QP
6	906.4824	35.84	-4.65	31.19	46.00	-14.81	QP





Remark:

Emission Level = Reading + Factor;

Factor = Antenna Factor + Cable Loss - Pre-amplifier;

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	51.8430	36.71	-16.75	19.96	40.00	-20.04	QP
2	81.7833	47.78	-20.95	26.83	40.00	-13.17	QP
3	179.3863	47.48	-18.23	29.25	43.50	-14.25	QP
4	463.9696	35.46	-13.02	22.44	46.00	-23.56	QP
5	726.8052	35.38	-7.51	27.87	46.00	-18.13	QP
6	958.7943	36.37	-3.48	32.89	46.00	-13.11	QP



3.3 20dB Bandwidth

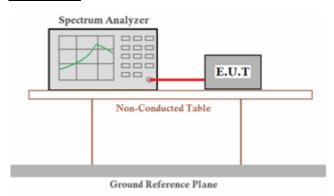
<u>Limit</u>

The 20dB bandwidth shall be less than 80% of the permitted frequency band.

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.

Test setup

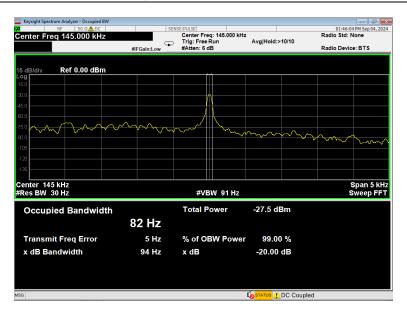


Test Results

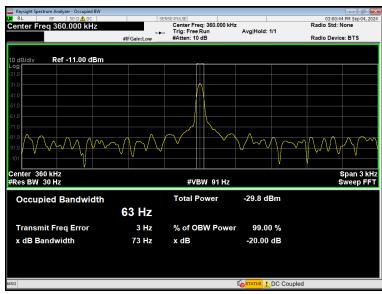
Coil	Frequency (KHz)	equency (KHz) 20dB bandwidth (KHz) 99% bandwidth (KHz)		Result
Dhono	145.0	0.094	-	Pass
Phone	360.0	0.073	-	Pass
Earphone	178.5	0.094	-	Pass

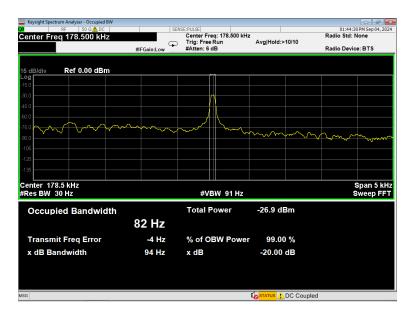
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3.4 Antenna Requirement

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

Confirmation

The EUT's antenna is an Inductive Loop coil Antenna, the best case gain of the antenna is 0dBi.





Test Setup Photographs of EUT

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

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External Photographs of EUT

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

Internal Photographs of EUT

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