



# FCC Test Report FCC ID:2AOAF-350

**Product:** Wireless Charger

Trade Name: -- TYLT

Model Number: QIRS15BK-T

Family Model: WD44

Report No.: S22042902503001

#### **Prepared for**

TYLT, inc.

685 Cochran St. Suite 200, Simi Valley, California 93065, United States

#### Prepared by

Shenzhen NTEK Testing Technology Co., Ltd.

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# **TEST RESULTCERTIFICATION**

Annii antia nama	TVI T in a				
Applicant's name:					
Address:	685 Cochran St. Suite 200, Simi Valley, California 93065, United States				
Manufacturer's Name	Shenzhen Goodwin Technology Co., Ltd.				
Address:	4/F, Building A, Huayuan Industrial Park, Fenghuang NO.1 Industrail Area, Fuyong, Bao'an Dist, Shenzhen, China				
Factory's Name 1:	Shenzhen Goodwin Technology Co., Ltd.				
Address:	4/F, Building A, Huayuan Industrial Park, Fenghuang NO.1 Industrail Area, Fuyong, Bao'an Dist, Shenzhen, China				
Factory's Name 2	GOLD CABLE VIET NAM COMPANY LIMITED				
Address:	Road D3, Part D, Pho Noi A Industrial Park, Lac Hong Commune, VAN LAM DISTRICT, Hung Yen				
Product description					
Product name:	Wireless Charger				
Model and/or type reference .:	QIRS15BK-T, WD44				
	FCC part 15C				
Standards	ANSI C63.10:2013				
results show that the equipment un applicable only to the tested sampl This report shall not be reproduced Technology Co., Ltd., this documen	KDB 680106 D01 RF Exposure Wireless Charging App v03r01 een tested by ShenzhenNTEK Testing Technology Co., Ltd., and the test ider test (EUT) is in compliance with the FCC requirements. And it is e identified in the report. I except in full, without the written approval of ShenzhenNTEK Testing in the may be altered or revised by Shenzhen NTEK Testing Technology Co., oted in the revision of the document.				
The test results of this report relate	only to the tested sample identified in this report.				
Date of Test	:				
Date (s) of performance of tests.	Apr. 09, 2022~ Apr. 18, 2022				
Date of Issue	: Apr. 19, 2022				
Test Result	: Pass				
Testing Engine	eer :				
Authorized Sig	1000				





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# 1. TEST SUMMARY

Test procedures according to the technical standards:

EMC Emission						
Standard	Test Item	FCC Rules	Limit	Judgment	Remark	
	Conducted Emission	§15.207	Class B	PASS		
FCC part 15C:2018 ANSI C63.10:2013	Radiated Emission	§15.209	Class B	PASS		
	20dB BANDWIDTH	§15.215	Class B	PASS		
	ANTENNA APPLICATION	§15.203	1	PASS		

#### NOTE:

- (1)'N/A' denotes test is not applicable in this Test Report
- (2) For client's request and manual description, the test will not be executed.





#### 1.1 FACILITIES AND ACCREDITATIONS

All measurement facilities used to collect the measurement data are located at

1/F, Building E, Fenda Science Park, Sanwei Community, Xixiang Street, Bao'an District, Shenzhen 518126 P.R. China.

The sites are constructed in conformance with the requirements of ANSI C63.7, ANSI C63.10 and CISPR Publication 22.

#### 1.2 LABORATORY ACCREDITATIONS AND LISTINGS

Site Description

CNAS-Lab. : The Certificate Registration Number is L5516.

IC-Registration : The Certificate Registration Number is 9270A-1.

FCC- Accredited : Test Firm Registration Number:463705.

Designation Number: CN1184

A2LA-Lab. : The Certificate Registration Number is 4298.01

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005General requirements for

the competence of testing and calibration laboratories.

This accreditation demonstratestechnical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communiqué dated 8 January 2009).

Name of Firm : Shenzhen NTEK Testing Technology Co., Ltd.

Site Location : 1/F, Building E, Fenda Science Park, Sanwei Community, Xixiang

Street, Bao'an District, Shenzhen 518126 P.R. China.

#### 1.3 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement  $\mathbf{y} \pm \mathbf{U}$ , where expended uncertainty  $\mathbf{U}$  is based on a standard uncertainty multiplied by a coverage factor of  $\mathbf{k}=2$ , providing a level of confidence of approximately  $\mathbf{95}$  %.

No.	Item	Uncertainty
1	Conducted Emission Test	±2.80dB
2	RF power, conducted	±0.16dB
3	Spurious emissions, conducted	±0.21dB
4	All emissions, radiated(30MHz~1GHz)	±2.64dB
5	All emissions, radiated(1GHz~6GHz)	±2.40dB
6	All emissions, radiated( > 6GHz)	±2.52dB
7	Temperature	±0.5°C
8	Humidity	±2%
9	All emissions, radiated(9KHz~30MHz)	±6dB





# **Revision History**

Report No.	Version	Description	Issued Date
S22042902503001	Rev.01	Initial issue of report	Apr. 19, 2022





# 2. GENERAL INFORMATION

# 2.1 GENERAL DESCRIPTION OF EUT

Product Feature and Specification			
Equipment	Wireless Charger		
Trade Name	-\-TYL7		
FCC ID	2AOAF-350		
Model No.	QIRS15BK-T		
Family Model	WD44		
Model Difference	All model's are identical except model name.		
Operating Frequency	110.5kHz~205kHz		
Modulation Technique	ASK		
Antenna Type	Induction coil		
Power Rating	Input:5V/2A;9V/1.8A;12V/1.67A Coil Output:15W(Max)		
Battery	N/A		
HW Version	N/A		
SW Version	N/A		





#### 2.2 DESCRIPTION OF TEST MODES

#### EUT Configuration

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

#### **EUT Exercise**

The Transmitter was operated in the normal operating mode. The TX frequency was fixed which was for the purpose of the measurements.

The following summary table is showing all test modes to demonstrate in compliance with the standard.

	Test Cases					
Test Item	Data Rate/ Modulation					
AC Conducted Emission	Mode 1: Max load					
Radiated Test Cases	Mode 1: Max load					

Note: Wireless output 15W full load, half load and no load mode all has been tested, 15W full load was the wors case and only

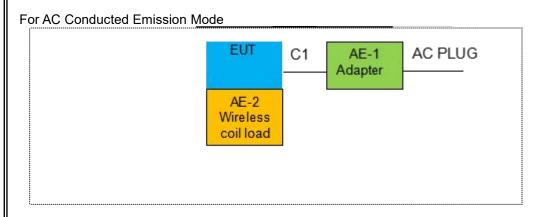
this mode was presented in this report.

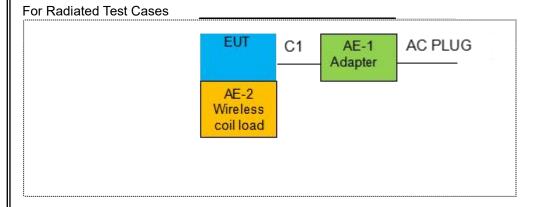
(\*)EUT can only access the specified load, can not adjust the size of the load





#### 2.3 DESCRIPTION OF TEST SETUP









#### 2.4 DESCRIPTION TEST PERIPHERAL AND EUT PERIPHERAL

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Item	Equipment	Model/Type No.	Series No.	Note
AE-1	Adapter	N/A	N/A	Peripherals
AE-2	Adjustable wireless coil load	N/A	N/A	Peripherals

Item	Cable Type	Shielded Type	Ferrite Core	Length	Note
C-1	DC cable	YES	NO	1.75m	

#### Note:

- (1) The support equipment was authorized by Declaration of Confirmation.
- (2) For detachable type I/O cable should be specified the length in cm in 『Length』 column.
- (3) "YES" means "shielded" with core"; "NO" means "unshielded" without core".





# 2.5 MEASUREMENT INSTRUMENTS LIST

RadiationTest equipment

	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibrati on period
1	Spectrum Analyzer	Aglient	E4407B	MY45108040	2021.04.27	2022.04.26	1 year
2	Spectrum Analyzer	Agilent	N9020A	MY49100060	2021.07.01	2022.06.30	1 year
4	Test Receiver	R&S	ESPI7	101318	2021.04.27	2022.04.26	1 year
5	Bilog Antenna	TESEQ	CBL6111D	31216	2022.03.29	2023.03.28	1 year
6	50Ω Coaxial Switch	Anritsu	MP59B	6200983705	2020.05.11	2023.05.10	3 year
7	Amplifier	EMC	EMC051835 SE	980246	2021.07.01	2022.06.30	1 year
8	Amplifier	MITEQ	TTA1840-35- HG	177156	2021.07.01	2022.06.30	1 year
9	Loop Antenna	ARA	PLA-1030/B	1029	2021.06.22	2022.06.21	1 year
10	Test Cable (9KHz-30MHz)	N/A	R-01	N/A	2019.08.6	2022.08.05	3 year
11	Test Cable (30MHz-1GHz)	N/A	R-02	N/A	2019.08.6	2022.08.05	3 year

# Conduction Test equipment

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibration period
1	Test Receiver	R&S	ESCI	101160	2021.04.27	2022.04.26	1 year
2	LISN	R&S	ENV216	101313	2021.04.27	2022.04.26	1 year
3	LISN	SCHWARZBE CK	NNLK 8129	8129245	2021.04.27	2022.04.26	1 year
4	50ΩCoaxial Switch	ANRITSU CORP	MP59B	6200983704	2020.05.11	2023.05.10	3 year
5	Test Cable (9KHz-30MH z)	N/A	C01	N/A	2020.05.11	2023.05.10	3 year
6	Test Cable (9KHz-30MH z)	N/A	C02	N/A	2020.05.11	2023.05.10	3 year
7	Test Cable (9KHz-30MH z)	N/A	C03	N/A	2020.05.11	2023.05.10	3 year





# 3. EMC EMISSION TEST

#### 3.1 CONDUCTED EMISSION MEASUREMENT

# 3.1.1 POWER LINE CONDUCTED EMISSION (Frequency Range 150KHz-30MHz)

EDEOLIENCY (MHz)	li	mit
FREQUENCY (MHz)	Quasi-peak	Average
0.15 -0.5	66 - 56 *	56 - 46 *
0.50 -5.0	56.00	46.00
5.0 -30.0	60.00	50.00

#### Note:

- (1) The tighter limit applies at the band edges.
- (2) The limit of " \* " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

The following table is the setting of the receiver

The following table is the setting of the receiver	
Receiver Parameters	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 kHz

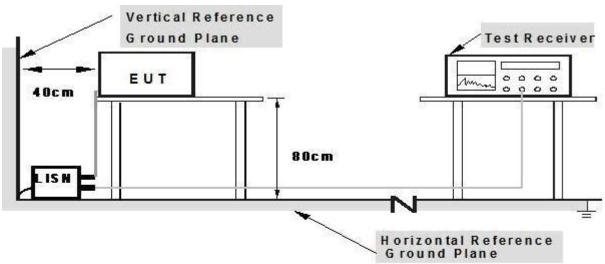




#### 3.1.2 TEST PROCEDURE

- 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.

#### 3.1.3 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

#### 3.1.4 EUT OPERATING CONDITIONS

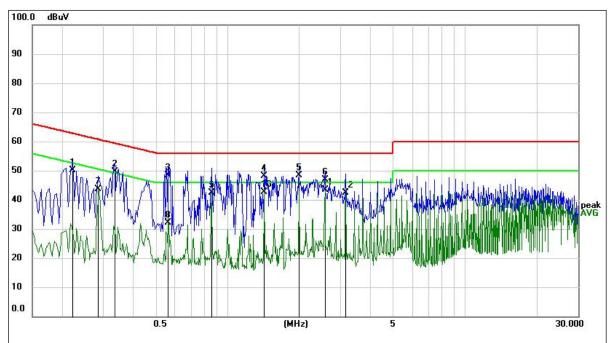
The EUT tested system was configured as the statements of **2.3** Unless otherwise a special operating condition is specified in the follows during the testing.





# 3.1.5 TEST RESULTS

EUT:	Wireless Charger	Model Name. :	QIRS15BK-T
Temperature:	26℃	Relative Humidity:	55%
Pressure:	1010hPa	Phase :	L
Test Mode:	Mode 1	LIDEL MULISIDE.	DC 12V from Adapter Input AC 120V/60Hz



No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over			
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment	
1	0.2220	40.32	9.90	50.22	62.74	-12.52	QP		
2	0.3345	39.68	9.92	49.60	59.34	-9.74	QP		
3	0.5637	38.55	9.93	48.48	56.00	-7.52	QP		
4	1.4277	38.15	10.00	48.15	56.00	-7.85	QP		
5	1.9994	38.32	10.03	48.35	56.00	-7.65	QP		
6	2.5710	36.79	10.08	46.87	56.00	-9.13	QP		
7	0.2847	33.70	9.92	43.62	50.68	-7.06	AVG		
8	0.5637	22.32	9.93	32.25	46.00	-13.75	AVG		
9	0.8564	32.40	9.97	42.37	46.00	-3.63	AVG		
10	1.4277	32.64	10.00	42.64	46.00	-3.36	AVG		
11 *	2.5710	33.18	10.08	43.26	46.00	-2.74	AVG		
12	3.1425	32.18	10.12	42.30	46.00	-3.70	AVG		

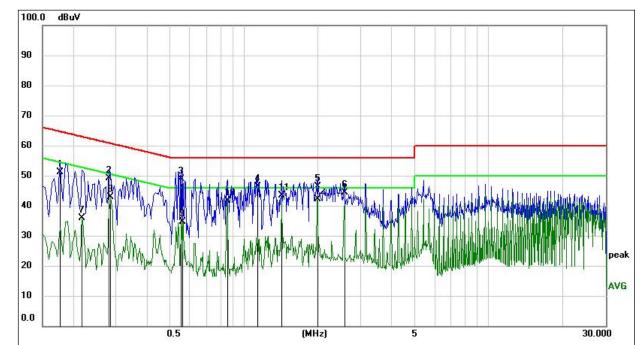
#### Remark:

- 1. All readings are Quasi-Peak and Average values.
- 2. Factor = Insertion Loss + Cable Loss.





EUT:	Wireless Charger	Model Name. :	QIRS15BK-T
Temperature:	<b>26</b> ℃	Relative Humidity:	55%
Pressure:	1010hPa	Phase :	N
Test Mode:	Mode 1	Heet Muliade.	DC 12V from Adapter Input AC 120V/60Hz



No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	0.1768	41.19	9.91	51.10	64.63	-13.53	QP	
2	0.2805	39.28	9.92	49.20	60.80	-11.60	QP	
3	0.5547	38.96	9.94	48.90	56.00	-7.10	QP	
4	1.1400	36.41	9.98	46.39	56.00	-9.61	QP	
5	1.9994	36.33	10.03	46.36	56.00	-9.64	QP	
6	2.5710	34.24	10.08	44.32	56.00	-11.68	QP	
7	0.2174	26.00	9.90	35.90	52.92	-17.02	AVG	
8	0.2847	33.02	9.92	42.94	50.68	-7.74	AVG	
9	0.5637	24.68	9.94	34.62	46.00	-11.38	AVG	
10	0.8564	31.73	9.97	41.70	46.00	-4.30	AVG	
11 *	1.4277	33.40	10.00	43.40	46.00	-2.60	AVG	
12	1.9994	32.13	10.03	42.16	46.00	-3.84	AVG	
0.000	0.000.000.000.000	COMMON PROPERTY.		VII. VII. VII. VII. VII. VII. VII. VII.			Maria de la compania del compania del compania de la compania del la compania de la compania della compania del	

#### Remark:

- 1. All readings are Quasi-Peak and Average values.
- 2. Factor = Insertion Loss + Cable Loss.





#### 3.2 RADIATED EMISSION MEASUREMENT

#### 3.2.1 LIMITS OF RADIATED EMISSION MEASUREMENT

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

Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100**	3
88-21 <mark>6</mark>	150**	3
216-960	200**	3
Above 960	500	3

#### 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
<sup>1</sup> 0.495-0.505	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	108-121.94	1718.8-1722.2	13.25-13.4
6.31175-6.31225	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	( <sup>2</sup> )
13.36-13.41			

# Notes

- (1) Measurement was performed at an antenna to the closed point of EUT distance ofmeters.
- (2) Emission level (dBuV/m)=20log Emission level (uV/m).
- (3) Only spurious frequency is permitted to locate within the Restricted Bands specified in provision of 15.205, and the emissions located in restricted bands also comply with 15.209limit.
- (4) The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90 kHz, 110-490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector





#### 3.2.2 TEST PROCEDURE

#### Test Arrangement for Radiated Emissions up to 1 GHz

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at an accredited testfacility. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the topof a variable-height antenna tower.
- c. The antenna is a broadband antenna(Blow 30M, use loop antenna), and its 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.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned toheights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to findthe maximum reading.

Note: The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz forquasi-peak detection (QP) at frequency below 1GHz.

During the radiated emission test, the Spectrum Analyzer was set with the following configurations:

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

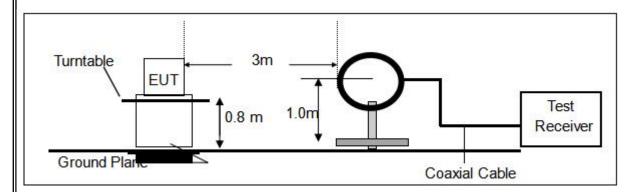
VBW ≥ 3\*RBW Sweep = auto Detector function = QP Trace = max hold



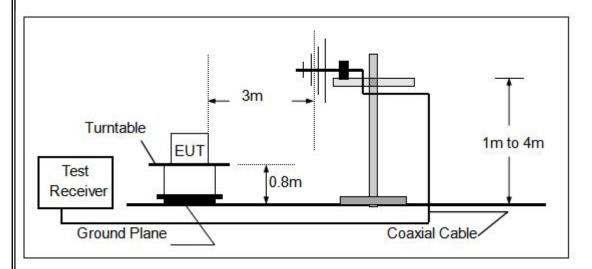


#### 3.2.3 TEST SETUP

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



b) For Radiated Emission 30~1000MHz







# 3.2.4 TEST RESULTS

### TEST RESULTS(9KHz~30MHz)

EUT:	Wireless Charger	Model Name. :	QIRS15BK-T
Temperature:	<b>25</b> ℃	Relative Humidity:	55%
Pressure:	1010 hPa	LIAST DOWAR .	DC 12V from Adapter Input AC 120V/60Hz
Test Mode :	Low frequency/Mode 1	Polarization:	X

Frequency	Ant.Pol.	Emission Level	Limits	Margin	Remark
(MHz)		(dBuV/m)	(dBuV/m)	(dB)	
0.054	Х	52.57	112.96	-60.39	Avg
0.122	Х	58.33	105.88	-47.55	Avg(fundamental frequency)
0.512	Х	40.56	73.42	-32.86	QP
0.921	Х	39.98	68.32	-28.34	QP
1.013	Х	37.11	67.49	-30.38	QP
14.840	Х	45.38	69.54	-24.16	QP

#### Note:

Below 30MHz, Pre-test the X, Y, Z axis to find X axis is worst case, so only record X axis test data.

- X: Field strength which this device generates since the position of the charging coil and loop antenna differ by 0 degrees.
- Y: Field strength which this device generates since the position of the charging coil and loop antenna differ by 90 degrees.
- Z: Field strength which this device generates since the position of the charging coil and loop antenna differ by 180 degrees.





EUT:	Wireless Charger	Model Name. :	QIRS15BK-T
Temperature:	25℃	Relative Humidity:	55%
Pressure:	1010 hPa	LIACT DOWAR .	DC 12V from Adapter Input AC 120V/60Hz
Test Mode :	Mid frequency/Mode 1	Polarization:	X

Frequency	Ant.Pol.	Emission Level	Limits	Margin	Remark
(MHz)		(dBuV/m)	(dBuV/m)	(dB)	
0.031	Х	52.41	117.78	-65.37	Avg
0.176	X	57.19	102.69	-45.50	Avg(fundamental
0.170	Λ	07.10	102.00	-40.00	frequency)
0.533	X	50.43	73.07	-22.64	QP
0.682	Х	49.96	70.93	-20.97	QP
1.186	Х	30.12	66.12	-36.00	QP
28.327	Х	48.25	69.54	-21.29	QP

#### Note:

Below 30MHz, Pre-test the X, Y, Z axis to find X axis is worst case, so only record X axis test data.

- X: Field strength which this device generates since the position of the charging coil and loop antenna differ by 0 degrees.
- Y: Field strength which this device generates since the position of the charging coil and loop antenna differ by 90 degrees.
- Z: Field strength which this device generates since the position of the charging coil and loop antenna differ by 180 degrees.





EUT:	Wireless Charger	Model Name. :	QIRS15BK-T
Temperature:	25℃	Relative Humidity:	55%
Pressure:	1010 hPa	LIACT DOWAR :	DC 12V from Adapter Input AC 120V/60Hz
Test Mode :	High frequency/Mode 1	Polarization:	X

Frequency	Ant.Pol.	Emission Limits		Margin	Remark	
(MHz)		(dBuV/m)	(dBuV/m)	(dB)		
0.057	Х	45.36	112.49	-67.13	Avg	
0.190	Х	49.19	102.03	-52.84	Avg(fundamental frequency)	
0.531	Х	46.47	73.10	-26.63	QP	
0.757	Х	40.04	70.02	-29.98	QP	
1.649	Х	34.39	63.26	-28.87	QP	
11.838	Х	45.55	69.54	-23.99	QP	

#### Note:

Below 30MHz, Pre-test the X, Y, Z axis to find X axis is worst case, so only record X axis test data.

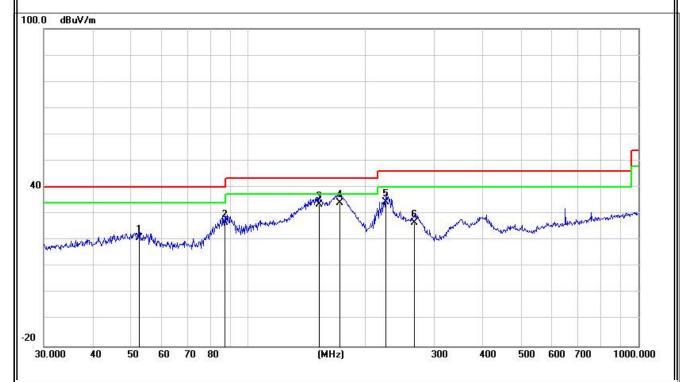
- X: Field strength which this device generates since the position of the charging coil and loop antenna differ by 0 degrees.
- Y: Field strength which this device generates since the position of the charging coil and loop antenna differ by 90 degrees.
- Z: Field strength which this device generates since the position of the charging coil and loop antenna differ by 180 degrees.





# TEST RESULTS(30MHz ~1000MHz)

EUT:	Wireless Charger	Model Name. :	QIRS15BK-T
Temperature:	23℃	Relative Humidity:	56%
Pressure:	1010 hPa	LIDEL DUMAL:	DC 12V from Adapter Input AC 120V/60Hz
Test Mode :	High frequency/Mode 1	Polarization:	Horizontal



No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
	MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector	cm	degree	Comment
1	52.7600	29.17	-8.31	20.86	40.00	-19.14	QP			
2	87.4176	38.84	-12.11	26.73	40.00	-13.27	QP			
3	152.1297	40.60	-7.09	33.51	43.50	-9.99	QP			
4 *	171.9945	42.49	-8.29	34.20	43.50	-9.30	QP			
5	225.3079	44.63	-10.04	34.59	46.00	-11.41	QP			
6	266.6089	35.52	-8.89	26.63	46.00	-19.37	QP			

#### Remark:

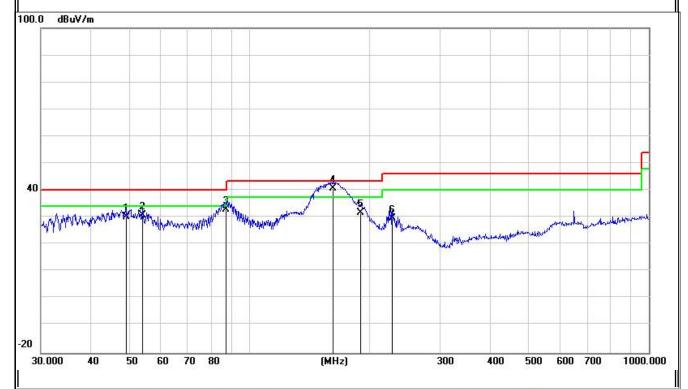
Emission Level= Meter Reading+ Factor, Margin= Emission Level- Limit.





Report No.:S22042902503001

EUT:	Wireless Charger	Model Name. :	QIRS15BK-T
Temperature:	23℃	Relative Humidity:	56%
Pressure:	1010 hPa	LIACT DOWAR:	DC 12V from Adapter Input AC 120V/60Hz
Test Mode :	High frequency/Mode 1	Polarization:	Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBu∀	dB	dBuV/m	dB/m	dB	Detector	cm	degree	Comment
1		49.0144	38.48	-8.08	30.40	40.00	-9.60	QP			
2		53.8817	39.22	-8.40	30.82	40.00	-9.18	QP			18
3		87.4175	44.98	-12.11	32.87	40.00	-7.13	QP			
4	*	161.4738	48.01	-7.21	40.80	43.50	-2.70	QP			
5		189.7384	42.43	-10.60	31.83	43.50	-11.67	QP			3
6		227.6904	39.42	-9.90	29.52	46.00	-16.48	QP			

Remark:

Emission Level= Meter Reading+ Factor, Margin= Emission Level- Limit.





#### 4. BANDWIDTH TEST

#### **4.1TEST PROCEDURE**

- 1). The transmitter output (antenna port) was connected to the spectrum analyzer in peak mode.
- 2). 20dB Bandwidth the resolution bandwidth of 300 Hz and the video bandwidth of 1 kHz were used.
- 3). Measured the spectrum width with power higher than 20dB below carrier.
- **4.2TEST SETUP**

EUT	SPECTRUM
5475997171254 X	ANALYZER

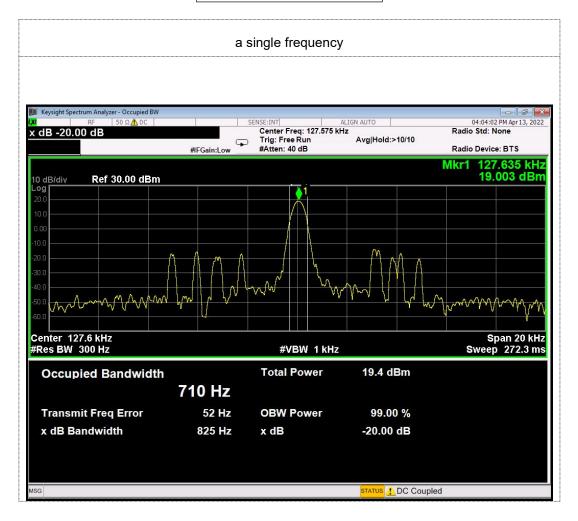




#### 4.3 TEST RESULT

EUT:	Wireless Charger	Model Name. :	QIRS15BK-T
Temperature:	<b>24</b> ℃	Relative Humidity:	56%
Pressure:	1010 hPa	Test Mode :	Mode 1
Test Power:	DC 12V from Adapter Input AC	120V/60Hz	_

-20dB Bandwidth-a single frequency(Hz) 825







# 5 ΔΝΤΕΝΝΔ ΔΡΡΙΙΟΔΤΙΟΝ

O. AIT EITHA AIT EIGATION
<b>5.1 Antenna Requirement</b> 15.203 requirement: For intentional device, according to 15.203: an intentional radiator shallbe designed to ensure that no antenna other than that furnished by the responsible partyshall be used with the device. <b>5.2 Result</b>
The EUT antenna ispermanent attached antenna. It comply with the standard requirement.
END REPORT