## FCC TEST REPORT

## For

# Guangdong Bekey Technology Co., Ltd.

## Atomi cell Phone UV sanitizer(Qi Charger)

## Test Model: AT1502

## Additional Model No.: Please Refer to Page 6

Prepared for Address	:	Guangdong Bekey Technology Co., Ltd. R building, Dong Yuan Reservoir Region Immigration base, Butterfly Lodge Ind District, Dongyuan, Heyuan city, GuangDong, China
Prepared by Address Tel Fax Web Mail		Shenzhen LCS Compliance Testing Laboratory Ltd. 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Shajing Street, Baoan District, Shenzhen, China (+86)755-82591330 (+86)755-82591332 www.LCS-cert.com webmaster@LCS-cert.com
Date of receipt of test sample Number of tested samples Sample number Serial number Date of Test Date of Report		July 03, 2020 1 200630107A Prototype July 03, 2020 ~ July 10, 2020 July 13, 2020

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Report No.: LCS200630107AEA

	FCC TEST R FCC CFR 47	-		
Report Reference No	: LCS200630107	<b>\EA</b>		
Date Of Issue	: July 13, 2020			
Testing Laboratory Name	: Shenzhen LCS	Compliance Test	ng Laboratory Ltd.	
Address	. 101, 201 Bldg A Baoan District, S	101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Shajing Street, Baoan District, Shenzhen, China		
	Full application of	of Harmonised star	idards ∎	
Testing Location/ Procedure	Partial applicatio	n of Harmonised s	tandards	
	Other standard to	esting method $\Box$		
Applicant's Name	: Guangdong Be	key Technology C	co., Ltd.	
Address			egion Immigration base, ıan, Heyuan city, GuangDong	
Test Specification				
Standard	: FCC CFR 47 PA	RT 18		
Test Report Form No	: LCSEMC-1.0	LCSEMC-1.0		
TRF Originator	: Shenzhen LCS (	Shenzhen LCS Compliance Testing Laboratory Ltd.		
Master TRF	: Dated 2011-03			
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Trade Mark			enargery	
Test Model				
Power Supply		Page 6		
Result		U U		
	0	ed bv:	Approved by:	
Compiled by:	Supervis			
Compiled by: Inder Me	Jin V	Vang	Grino Linoz	

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|--|

**Test Report No. :** 

## **FCC TEST REPORT**

LCS200630107AEA

Test Model	: AT1502
EUT	: Atomi cell Phone UV sanitizer(Qi Charger)
Applicant	: Guangdong Bekey Technology Co., Ltd. R building, Dong Yuan Reservoir Region Immigration base,
Address	: Butterfly Lodge Ind District, Dongyuan, Heyuan city, GuangDong, China
Telephone	: /
Fax	
Manufacturer	
	R building, Dong Yuan Reservoir Region Immigration base,
Address	: Butterfly Lodge Ind District, Dongyuan, Heyuan city, GuangDong, China
Telephone	: /
Fax	: /
Factory	: Guangdong Bekey Technology Co., Ltd. R building, Dong Yuan Reservoir Region Immigration base,
Address	<ul> <li>Butterfly Lodge Ind District, Dongyuan, Heyuan city, GuangDong, China</li> </ul>
Telephone	
Fax	: /

Test Result Positive
----------------------

The 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.

July 13, 2020

Date of issue

## **Revision History**

Revision	Issue Date	Revisions	Revised By
000	July 13, 2020	Initial Issue	Gavin Liang

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FCC ID: 2AVCH-AT1502

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## **1. GENERAL INFORMATION**

1.1 Description of Device (EUT)			
EUT	: Atomi cell Phone UV sanitizer(Qi Charger)		
Test Model	: AT1502		
Additional Model No	: AT1524, AT1531		
Model Declaration	PCB Board (For Wireless Charging), structure and internal of these model(s) are the same, So no additional models were tested		
Power Supply	Input: 5Vdc/3A, 9Vdc/2A, 12Vdc/1.5A; USB Output: 5Vdc/1A; Wireless Charge Pad :10W; Total Output: 15W Max		
Hardware Version	: /		
Software Version	: /		
Wireless Charging	:		
Operating Frequency	: 110.0~205.0KHz		
Modulation Type	: Continuous Wave		
Antenna Type	: Coil Antenna		

## 1.2 Support equipment List

Manufacturer	Description	Model	Serial Number	Certificate
atomi <sup>TM</sup>	Adapter	AT1251		SDOC
MIUI	Mobile Phone	MI9	MIUI	SDOC

Note: The mobile phone is only used test, not shipped

### 1.3 External I/O Cable

I/O Port Description	Quantity	Cable
USB Port	1	N/A
Type-C USB Port	1	USB Cable: 0.8m, unshielded

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1.4 Description of Test Facility

NVLAP Accreditation Code is 600167-0.

FCC Designation Number is CN5024.

CAB identifier is CN0071.

CNAS Registration Number is L4595.

The 3m-Semi anechoic test site fulfils CISPR 16-1-4 according to ANSI C63.4:2014 and CISPR 16-1-4:2010 SVSWR requirement for radiated emission above 1GHz.

#### 1.5 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 LCS 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.

1.6 Measurement Uncertainty

Test Item		Frequency Range	Uncertainty	Note
		9KHz~30MHz	3.10dB	(1)
	F	30MHz~200MHz	2.96dB	(1)
Radiation Uncertainty	:	200MHz~1000MHz	3.10dB	(1)
	Γ	1GHz~26.5GHz	3.80dB	(1)
	Γ	26.5GHz~40GHz	3.90dB	(1)
Conduction Uncertainty	:	150kHz~30MHz	1.63dB	(1)
Power disturbance	:	30MHz~300MHz	1.60dB	(1)

(1). This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

### 1.7 Description of Test Modes

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

 $\boxtimes$  Charging and communication mode

Modulation Type: CW (Continuous Wave)

Test Mo	Test Modes				
Mode 1	AC/DC Adapter (5V/3A) + EUT+ Mobile Phone (Battery Status: <1%)	Record			
Mode 2	AC/DC Adapter (5V/3A) + EUT+ Mobile Phone (Battery Status: <50%)	Pre-tested			
Mode 3	AC/DC Adapter (5V/3A) + EUT+ Mobile Phone (Battery Status: 100%)	Pre-tested			
Mode 4	AC/DC Adapter (9V/2A) + EUT+ Mobile Phone (Battery Status: <1%)	Pre-tested			
Mode 5	AC/DC Adapter (9V/2A) + EUT+ Mobile Phone (Battery Status: <50%)	Pre-tested			
Mode 6	AC/DC Adapter (9V/2A) + EUT+ Mobile Phone (Battery Status: 100%)	Pre-tested			
Mode 7	AC/DC Adapter (12V/1.5A) + EUT+ Mobile Phone (Battery Status: <1%)	Pre-tested			
Mode 8	AC/DC Adapter (12V/1.5A) + EUT+ Mobile Phone (Battery Status: <50%)	Pre-tested			
Mode 9	AC/DC Adapter (12V/1.5A) + EUT+ Mobile Phone (Battery Status: 100%)	Pre-tested			
Note: Al	Note: All test modes were pre-tested, but we only recorded the worst case in this report.				

For AC conducted emission, pre-test at both AC 120V/60Hz and AC 240V/50Hz, recorded worst case; For AC conducted emission, pre-test at both AC charge from power adapter, recorded worst case.

#### FCC ID: 2AVCH-AT1502

# 2. TEST METHODOLOGY

The tests documented in this report were performed in accordance with MP-5, and FCC CFR PART 18.

### 2.1 EUT Configuration

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

#### 2.2 EUT Exercise

The EUT was operated in the charging and compunction mode to fix the TX frequency that was for the purpose of the measurements.

According to its specifications, the EUT must comply with the requirements of the Section 18.305 and 18.307 under the FCC Rules Part 18.

#### 2.3 General Test Procedures

#### 2.3.1 Conducted Emissions

The EUT is placed on the turntable, which is 0.8 m above ground plane. According to the requirements in FCC MP-5 for Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz using Quasi-peak and average detector modes.

#### 2.3.2 Radiated Emissions

The EUT is placed on a turn table, which is 0.8 m above ground plane. The turntable shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna, which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the maximum emissions, exploratory radiated emission measurements were made according to the requirements in FCC MP-5 for radiated emission.

SHENZHEN LCS COMPLIANCE TESTING LABORATORY LTD. FCC

#### FCC ID: 2AVCH-AT1502

Report No.: LCS200630107AEA

# **3. SYSTEM TEST CONFIGURATION**

### 3.1 Justification

The system was configured for testing in a normal condition.

### 3.2 EUT Exercise Software

N/A.

## 3.3 Special Accessories

N/A.

3.4 Block Diagram/Schematics

Please refer to the related document.

### 3.5 Equipment Modifications

Shenzhen LCS Compliance Testing Laboratory Ltd. has not done any modification on the EUT.

3.6 Test Setup

Please refer to the test setup photo.

# 4. SUMMARY OF TEST EQUIPMENT

Item	Equipment	Manufacturer	Model No.	Serial No.	Cal Date	Due Date	
1	MXA Signal Analyzer Agilent		N9020A	MY49100040	2020-06-22	2021-06-21	
2	SPECTRUM ANALYZER	R&S	FSP40	100503	2019-11-14	2020-11-13	
3	3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH03-HY	2020-04-03	2023-04-02	
4	Positioning Controller	MF	MF7082	MF78020803	2020-06-22	2021-06-21	
5	EMI Test Software	EZ	EZ-EMC	/	N/A	N/A	
6	EMI Test Receiver	R&S	ESR 7	101181	2020-06-22	2021-06-21	
7	Active Loop Antenna	SCHWARZBECK	FMZB 1519B	00005	2018-07-26	2021-07-25	
8	By-log Antenna	SCHWARZBECK	VULB9163	9163-470	2018-07-26	2021-07-25	
9	Horn Antenna	SCHWARZBECK	BBHA 9120D	9120D-1925	2018-07-02	2021-07-01	
10	RF Cable-R03m	Jye Bao	RG142	CB021	2020-06-22	2021-06-21	
11	RF Cable-HIGH	SUHNER	SUCOFLEX 106	03CH03-HY	2020-06-22	2021-06-21	
12	EMI Test Receiver	R&S	ESPI	101840	2020-06-22	2021-06-21	
13	Artificial Mains	R&S	ENV216	101288	2020-06-22	2021-06-21	
14	10dB Attenuator	SCHWARZBECK	MTS-IMP-136	261115-001-0032	2020-06-22	2021-06-21	
15	6dB Attenuator	/	100W/6dB	1172040	2020-06-22	2021-06-21	
16	3dB Attenuator	/	2N-3dB	/	2020-06-22	2021-06-21	
17	Broadband Preamplifier	SCHWARZBECK	BBV9745	9719-025	2020-06-22	2021-06-21	

## **5. SUMMARY OF TEST RESULT**

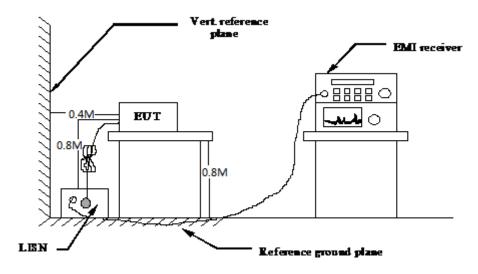
Test Item	FCC Rule No.	Temperature conditions	Power source conditions	С	NC	NA	NP	Remark
Radiated Emission	§18.305 (b)	Nominal	Nominal	$\boxtimes$				-/-
AC conducted emission	§18.307 (a)	Nominal	Nominal	$\boxtimes$				-/-

Remark: The measurement uncertainty is not included in the test result. N/A – Not Applicable!!!

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# 6. POWER LINE CONDUCTED MEASUREMENT

## 6.1. Block Diagram of Test Setup



### 6.2. Standard Applicable

According to §18.307 (b): For all other part 18 consumer devices which is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed 250 microvolts (The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz). The limits at specific frequency range are listed as follows:

Frequency Range	Limits (dBµV)				
(MHz)	Quasi-peak	Average			
0.15 to 0.50	66 to 56	56 to 46			
0.50 to 5	56	46			
5 to 30	60	50			

\* Decreasing linearly with the logarithm of the frequency

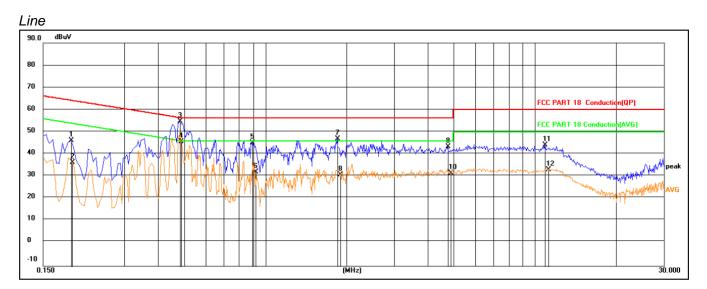
## 6.3 Test Results

## PASS

The test data please refer to following page.

Temperature	23.4°C	Humidity	53.6%
Test Engineer	Li Huan	Configurations	Transmit

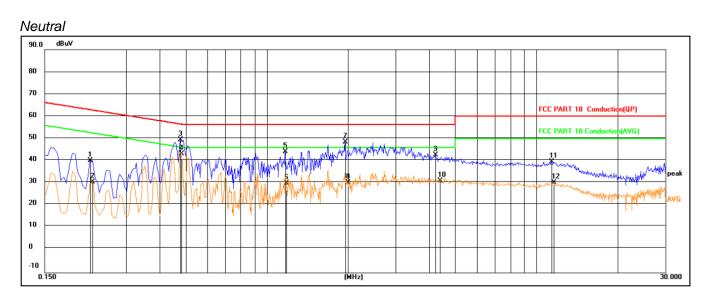
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### AC Power Line Conducted Emission (Power input to Adapter @ AC 120V/60Hz (Worst Case))

No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV)	(dBuV)	(dB)	
1	0.1905	31.22	15.17	46.39	64.01	-17.62	QP
2	0.1924	21.24	15.17	36.41	53.93	-17.52	AVG
3	0.4830	39.60	15.32	54.92	56.29	-1.37	QP
4	0.4875	30.37	15.32	45.69	46.21	-0.52	AVG
5	0.8925	29.91	15.30	45.21	56.00	-10.79	QP
6	0.9195	16.95	15.29	32.24	46.00	-13.76	AVG
7	1.8555	31.68	15.39	47.07	56.00	-8.93	QP
8	1.8915	15.51	15.39	30.90	46.00	-15.10	AVG
9	4.7715	27.92	15.49	43.41	56.00	-12.59	QP
10	4.8570	16.30	15.49	31.79	46.00	-14.21	AVG
11	10.8645	28.58	15.77	44.35	60.00	-15.65	QP
12	11.1975	17.36	15.80	33.16	50.00	-16.84	AVG

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No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV)	(dBuV)	(dB)	
1	0.2220	25.13	15.20	40.33	62.74	-22.41	QP
2	0.2244	15.36	15.20	30.56	52.65	-22.09	AVG
3	0.4785	34.27	15.32	49.59	56.37	-6.78	QP
4	0.4837	27.87	15.32	43.19	46.28	-3.09	AVG
5	1.1715	28.99	15.28	44.27	56.00	-11.73	QP
6	1.1805	15.01	15.29	30.30	46.00	-15.70	AVG
7	1.9545	33.29	15.40	48.69	56.00	-7.31	QP
8	1.9950	15.12	15.41	30.53	46.00	-15.47	AVG
9	4.2135	27.30	15.47	42.77	56.00	-13.23	QP
10	4.3755	15.75	15.47	31.22	46.00	-14.78	AVG
11	11.3280	24.06	15.81	39.87	60.00	-20.13	QP
12	11.5935	14.61	15.82	30.43	50.00	-19.57	AVG

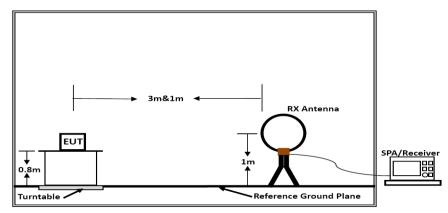
\*\*\*Note: Pre-scan all modes and recorded the worst case results in this report. Margin= Reading level + Correct factor - Limit

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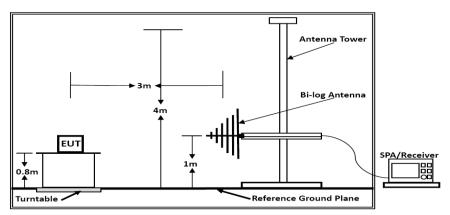
Report No.: LCS200630107AEA

## 7. RADIATED EMISSION MEASUREMENT

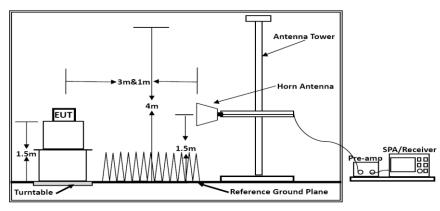




Below 30MHz



Below 1GHz



Above 1GHz

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### 7.2. Radiated Emission Limit

Except as provided elsewhere in this Subpart 18.305 (b), the field strength levels of emissions which lie outside the bands specified in §18.301, unless otherwise indicated, shall not exceed the following table:

Frequency	Distance	Field Strengths Limit		
MHz	Meters	dBµV/m	Remark	
0.009~30MHz	3	103.5	Quasi-peak	

Remark:

(1) Emission level dB $\mu$ V/m for 0.009~30MHz = 20log (15) + 40log (300/3) dB $\mu$ V/m;

(2) Calculated according FCC 18.305.

(3) The smaller limit shall apply at the cross point between two frequency bands.

(4) Distance is the distance in meters between the measuring instrument, antenna and the closest point of any part of the device or system.

#### 7.3. EUT Configuration on Measurement

The following equipment are installed on Radiated Emission Measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

### 7.4. Operating Condition of EUT

(1) Setup the EUT as shown in Section 4.1.

(2) Let the EUT work in worst test mode (Mode 1) and measure it.

#### 7.5. Measuring Setting

The following table is the setting of spectrum analyzer and receiver.

Receiver Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9kHz~150kHz / RB 200Hz for QP/Average
Start ~ Stop Frequency	150kHz~30MHz / RB 9kHz for QP/Average
Start ~ Stop Frequency	30MHz~1000MHz / RB 100kHz for QP

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#### 7.6. Test Procedure

#### 1) Sequence of testing 9 kHz to 30 MHz

#### Setup:

--- The equipment was set up to simulate a typical usage like described in the user manual or described by manufacturer.

--- If the EUT is a tabletop system, a rotatable table with 0.8 m height is used.

--- If the EUT is a floor standing device, it is placed on the ground.

--- Auxiliary equipment and cables were positioned to simulate normal operation conditions.

--- The AC power port of the EUT (if available) is connected to a power outlet below the turntable.

--- The measurement distance is 3 meter.

--- The EUT was set into operation.

#### Premeasurement:

--- The turntable rotates from 0° to 315° using 45° steps.

--- The antenna height is 0.8 meter.

--- At each turntable position the analyzer sweeps with peak detection to find the maximum of all emissions

#### Final measurement:

--- Identified emissions during the premeasurement the software maximizes by rotating the turntable position (0° to 360°) and by rotating the elevation axes (0° to 360°).

--- The final measurement will be done in the position (turntable and elevation) causing the highest emissions with QPK detector.

--- The final levels, frequency, measuring time, bandwidth, turntable position, correction factor, margin to the limit and limit will be recorded. Also a plot with the graph of the premeasurement and the limit will be stored.

#### 2) Sequence of testing 30 MHz to 1 GHz

#### Setup:

--- The equipment was set up to simulate a typical usage like described in the user manual or described by manufacturer.

--- If the EUT is a tabletop system, a table with 0.8 m height is used, which is placed on the ground plane.

--- If the EUT is a floor standing device, it is placed on the ground plane with insulation between both.

- --- Auxiliary equipment and cables were positioned to simulate normal operation conditions
- --- The AC power port of the EUT (if available) is connected to a power outlet below the turntable.
- --- The measurement distance is 3 meter.

--- The EUT was set into operation.

#### Premeasurement:

--- The turntable rotates from 0° to 315° using 45° steps.

--- The antenna is polarized vertical and horizontal.

--- The antenna height changes from 1 to 3 meter.

--- At each turntable position, antenna polarization and height the analyzer sweeps three times in peak to find the maximum of all emissions.

#### **Final measurement:**

--- The final measurement will be performed with minimum the six highest peaks.

--- According to the maximum antenna and turntable positions of premeasurement the software maximize the peaks by changing turntable position ( $\pm$  45°) and antenna movement between 1 and 4 meter.

--- The final measurement will be done with QP detector with an EMI receiver.

--- The final levels, frequency, measuring time, bandwidth, antenna height, antenna polarization, turntable angle, correction factor, margin to the limit and limit will be recorded. Also a plot with the graph of the premeasurement with marked maximum final measurements and the limit will be stored.

### 7.7. Test Results

PASS.

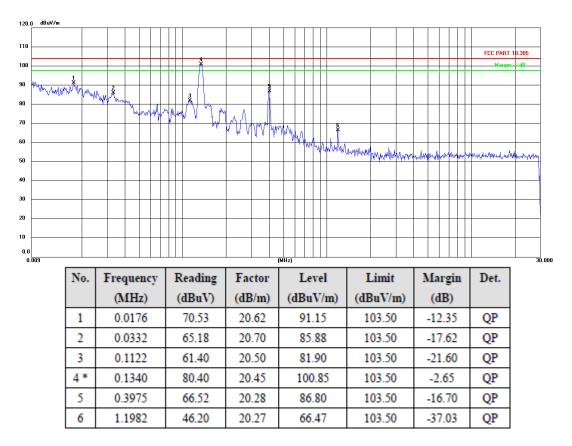
Only report the worst test data (Mode 1) in test report;

The test data please refer to following page:

Temperature	24.6°C	Humidity	54.1%
Test Engineer	Li Huan	Configurations	Transmit

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#### 0.009 MHz - 30 MHz

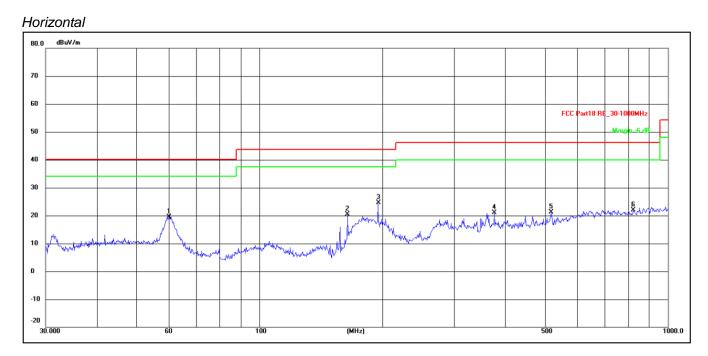


Remark: Measured at antenna position 0 degree and 90 degree, recorded worst case at 0 degree. Margin= Reading level + Correct factor - Limit

SHENZHEN LCS COMPLIANCE TESTING LABORATORY LTD.	FCC ID: 2AVCH-AT1502	Report No.: LCS200630107AEA

Temperature	24.6°C	Humidity	54.1%
Test Engineer	Li Huan	Configurations	Transmit

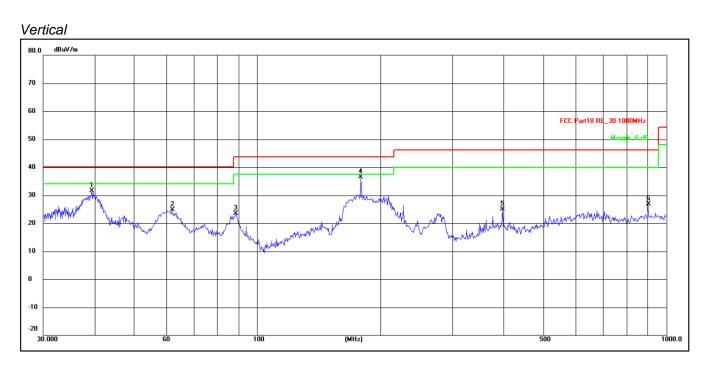
### Below 1GHz



No.	Frequency	Reading	Factor	Level	Limit	Margin	Det.
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	60.0691	36.44	-16.82	19.62	40.00	-20.38	QP
2	164.3301	40.80	-20.28	20.52	43.50	-22.98	QP
3 *	195.1365	42.45	-17.77	24.68	43.50	-18.82	QP
4	375.9385	33.85	-12.78	21.07	46.00	-24.93	QP
5	519.0649	31.62	-10.48	21.14	46.00	-24.86	QP
6	824.5968	28.71	-6.76	21.95	46.00	-24.05	QP

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No.	Frequency	Reading	Factor	Level	Limit	Margin	Det.
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
1	39.4371	47.72	-16.19	31.53	40.00	-8.47	QP
2	61.9951	42.15	-17.40	24.75	40.00	-15.25	QP
3	88.6524	43.06	-19.55	23.51	43.50	-19.99	QP
4 *	179.3863	56.07	-19.59	36.48	43.50	-7.02	QP
5	397.6334	37.25	-12.25	25.00	46.00	-21.00	QP
6	903.3094	32.63	-5.75	26.88	46.00	-19.12	QP

Note: Margin= Reading level + Correct factor - Limit

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## 8. PHOTOGRAPHS OF TEST SETUP

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

# 9. EXTERNAL PHOTOGRAPHS OF THE EUT

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

# **10. INTERNAL PHOTOGRAPHS OF THE EUT**

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

-----THE END OF REPORT------

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