

## FCC TEST REPORT

For

Shenzhen Doageas Technology Co., Ltd.

Bluetooth speaker with wireless charger

Test Model: B86

Additional Model No.: N/A

Prepared for

: Shenzhen Doageas Technology Co., Ltd.

Address

: 5/F, 4th Bldg, Hedian Industrial Park, Guanlan, Longhua, Shenzhen, Guangdong 518110, China

Prepared by

: Shenzhen LCS Compliance Testing Laboratory Ltd.

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Date of receipt of test sample

: August 10, 2020

Number of tested samples

: 2

Sample No.

: 200713165A-1, 200713165A-2

Serial number

: Prototype

Date of Test

: August 10, 2020 ~ August 14, 2020

Date of Report

: August 24, 2020

**FCC TEST REPORT**  
**FCC CFR 47 PART 18**

**Report Reference No.** ..... : LCS200713165AEB

**Date Of Issue** ..... : August 24, 2020

**Testing Laboratory Name** ..... : Shenzhen LCS Compliance Testing Laboratory Ltd.

**Address** ..... : 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Shajing Street, Baoan District, Shenzhen, China

**Testing Location/ Procedure** ..... :  Full application of Harmonised standards  Partial application of Harmonised standards  Other standard testing method

**Applicant's Name** ..... : Shenzhen Doageas Technology Co., Ltd.

**Address** ..... : 5/F, 4th Bldg, Hedian Industrial Park, Guanlan, Longhua, Shenzhen, Guangdong 518110, China

**Test Specification**

**Standard** ..... : FCC CFR 47 PART 18

**Test Report Form No.** ..... : LCSEMC-1.0

**TRF Originator** ..... : Shenzhen LCS Compliance Testing Laboratory Ltd.

**Master TRF** ..... : Dated 2011-03

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**Test Item Description** ..... : Bluetooth speaker with wireless charger

**Trade Mark** ..... : N/A

**Test Model** ..... : B86

**Power Supply** ..... : Input: DC 5V  
DC 3.7V by Rechargeable Li-ion Battery, 500mAh

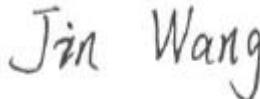
**Result** ..... : Positive

**Compiled by:**



Scent Hu/ File administrators

**Supervised by:**



Jin Wang/ Technique principal

**Approved by:**



Gavin Liang/ Manager

## FCC TEST REPORT

Test Report No. :	LCS200713165AEB	August 24, 2020 Date of issue
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Test Model.....	: B86
EUT.....	: Bluetooth speaker with wireless charger
Applicant.....	: <b>Shenzhen Doageas Technology Co., Ltd.</b>
Address.....	: 5/F, 4th Bldg, Hedian Industrial Park, Guanlan, Longhua, Shenzhen, Guangdong 518110, China
Telephone.....	: /
Fax.....	: /
Manufacturer.....	: <b>Shenzhen Doageas Technology Co., Ltd.</b>
Address.....	: 5/F, 4th Bldg, Hedian Industrial Park, Guanlan, Longhua, Shenzhen, Guangdong 518110, China
Telephone.....	: /
Fax.....	: /
Factory.....	: /
Address.....	: /
Telephone.....	: /
Fax.....	: /

Test Result	Positive
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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.

## Revision History

Revision	Issue Date	Revisions	Revised By
000	August 24, 2020	Initial Issue	Gavin Liang

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## 1. GENERAL INFORMATION

### 1.1 Description of Device (EUT)

EUT : Bluetooth speaker with wireless charger  
Test Model : B86  
Additional Model No : N/A  
Model Declaration : N/A  
Power Supply : Input: DC 5V  
: DC 3.7V by Rechargeable Li-ion Battery, 500mAh  
Hardware Version : DGLS-B86-6928B-MK-V11  
Software Version : 2.0  
Bluetooth :  
Frequency Range : 2402MHz ~ 2480MHz  
Channel Number : 79 channels for Bluetooth V5.0(DSS)  
Channel Spacing : 1MHz for Bluetooth V5.0(DSS)  
Modulation Type : GFSK,  $\pi/4$ -DQPSK for Bluetooth V5.0(DSS)  
Bluetooth Version : V5.0  
Antenna Description : PCB Antenna, -0.58dBi(Max.)  
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
Lenovo	PC	TP00094A	--	SDOC
Lenovo	ADAPTER	ADLX65YCC3A	--	SDOC
Apple	Mobile phone	iPhone X	--	SDOC

Note: The are only used test, not shipped

## 1.3 External I/O Cable

I/O Port Description	Quantity	Cable
Micro USB Port	1	USB Cable: 0.8m, unshielded

## 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
Radiation Uncertainty	9KHz~30MHz	3.10dB	(1)
	30MHz~200MHz	2.96dB	(1)
	200MHz~1000MHz	3.10dB	(1)
	1GHz~26.5GHz	3.80dB	(1)
	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:

Charging and communication mode

Modulation Type: CW (Continuous Wave)

Test Modes		
Mode 1	AC/DC Adapter (5V/1A) + EUT+ Mobile Phone (Battery Status: <1%)	Record
Mode 2	AC/DC Adapter (5V/1A) + EUT+ Mobile Phone (Battery Status: <50%)	Pre-tested
Mode 3	AC/DC Adapter (5V/1A) + EUT+ Mobile Phone (Battery Status: 100%)	Pre-tested
Mode 4	PC Charger + EUT+ Mobile Phone (Battery Status: <1%)	Pre-tested
Mode 5	PC Charger + EUT+ Mobile Phone (Battery Status: <50%)	Pre-tested
Mode 6	PC Charger + EUT+ Mobile Phone (Battery Status: 100%)	Pre-tested

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 and PC modes, recorded worst case.

## 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.

### 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	2020-06-22	2021-06-21
4	Positioning Controller	MF	MF7082	MF78020803	2020-06-22	2021-06-21
5	EMI Test Software	AUDIX	E3	/	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

Note: All equipment is calibrated through CHINA CEPREI LABORATORY and GUANGZHOU LISAI CALIBRATION AND TEST CO., LTD.

## 5. SUMMARY OF TEST RESULT

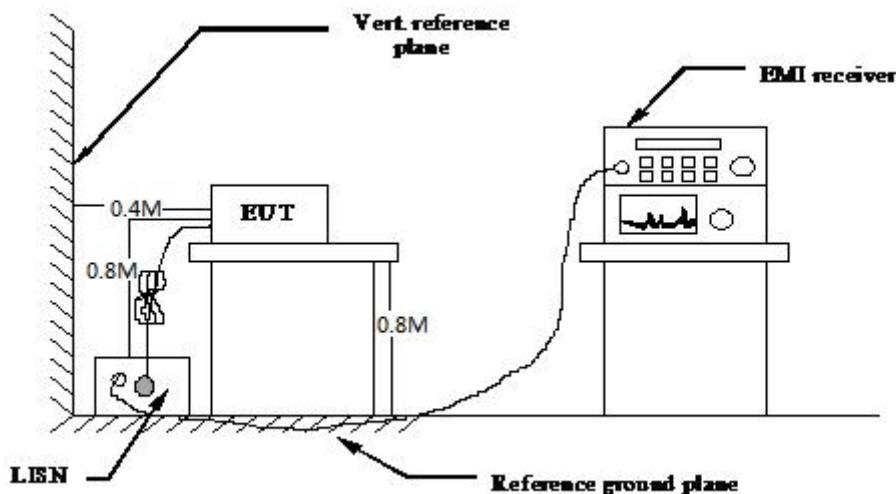
Test Item	FCC Rule No.	Temperature conditions	Power source conditions	C	NC	NA	NP	Remark
Radiated Emission	§18.305 (b)	Nominal	Nominal	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	-/-
AC conducted emission	§18.307 (a)	Nominal	Nominal	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	-/-

*Remark: The measurement uncertainty is not included in the test result.*

*N/A – Not Applicable!!!*

## 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 (MHz)	Limits (dB $\mu$ V)	
	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

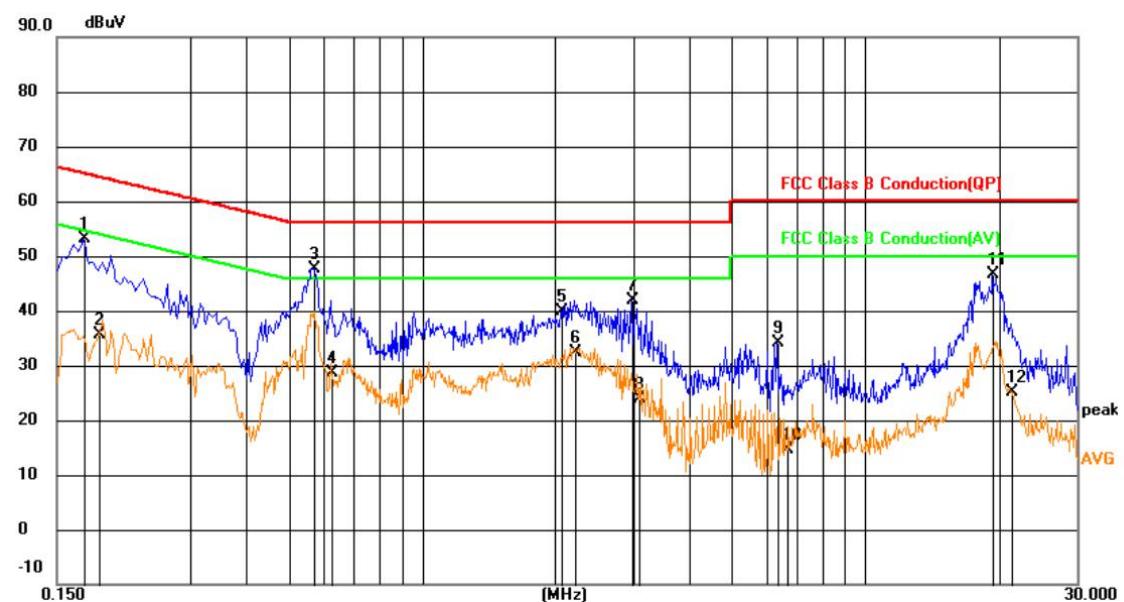
**PASS**

The test data please refer to following page.

Temperature	23.3°C	Humidity	53.7%
Test Engineer	Diamond Lu	Configurations	Transmit

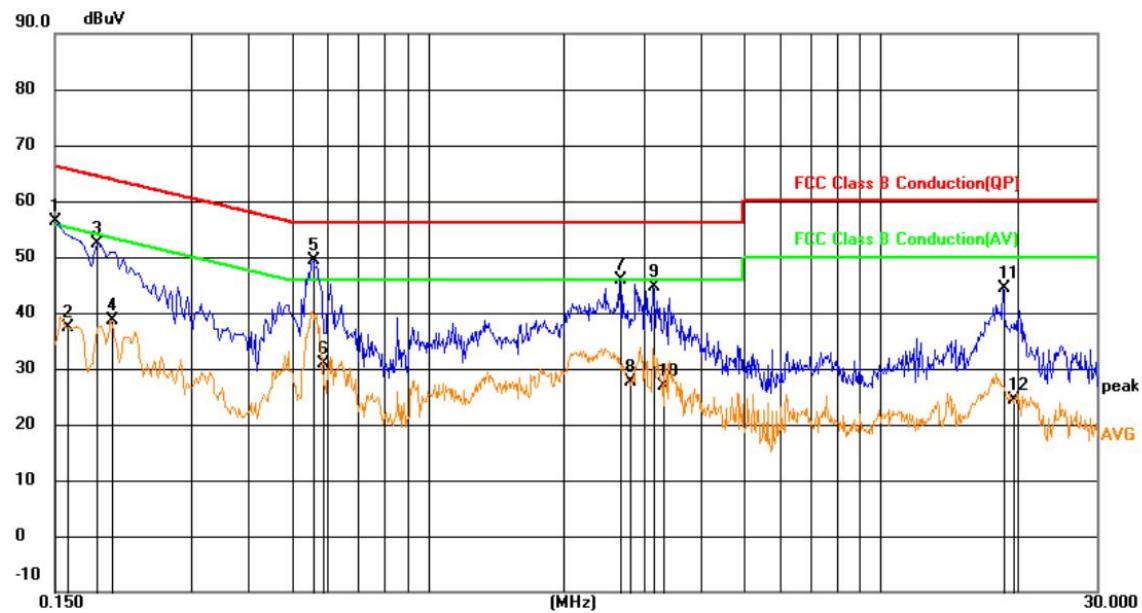
**AC Power Line Conducted Emission (Power input to PC @ AC 120V/60Hz (Worst Case))**

Line



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Margin	Detector	Comment
			Level	Factor	ment				
		MHz	dBuV	dB	dBuV	dBuV	dB		
1		0.1725	37.93	15.16	53.09	64.84	-11.75	QP	
2		0.1864	20.43	15.17	35.60	54.20	-18.60	AVG	
3 *		0.5730	32.40	15.30	47.70	56.00	-8.30	QP	
4		0.6270	13.32	15.25	28.57	46.00	-17.43	AVG	
5		2.0625	24.47	15.41	39.88	56.00	-16.12	QP	
6		2.2155	17.03	15.43	32.46	46.00	-13.54	AVG	
7		2.9670	26.40	15.47	41.87	56.00	-14.13	QP	
8		3.0885	8.42	15.47	23.89	46.00	-22.11	AVG	
9		6.3195	18.59	15.56	34.15	60.00	-25.85	QP	
10		6.6705	-0.93	15.56	14.63	50.00	-35.37	AVG	
11		19.4100	30.34	16.30	46.64	60.00	-13.36	QP	
12		21.3540	8.94	16.29	25.23	50.00	-24.77	AVG	

## Neutral

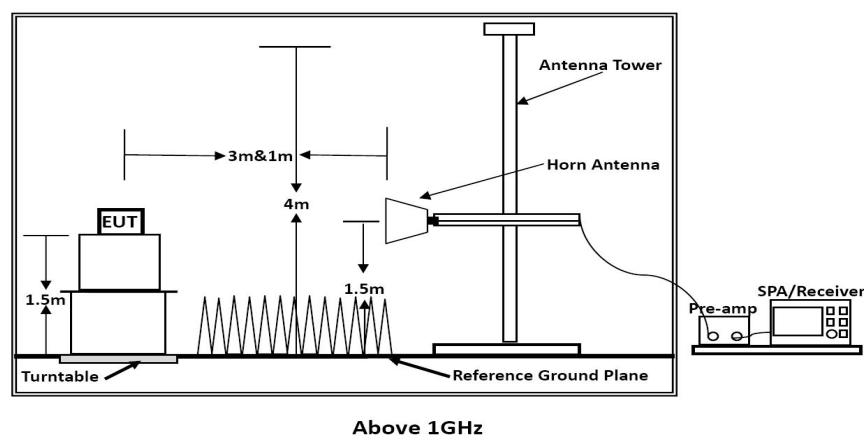
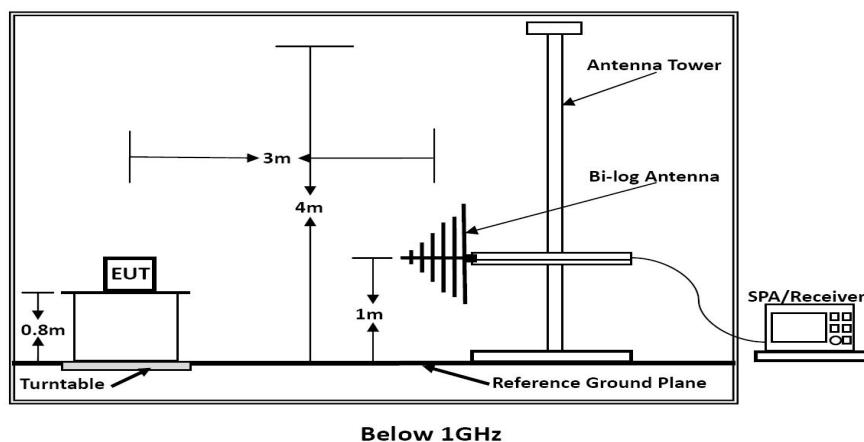
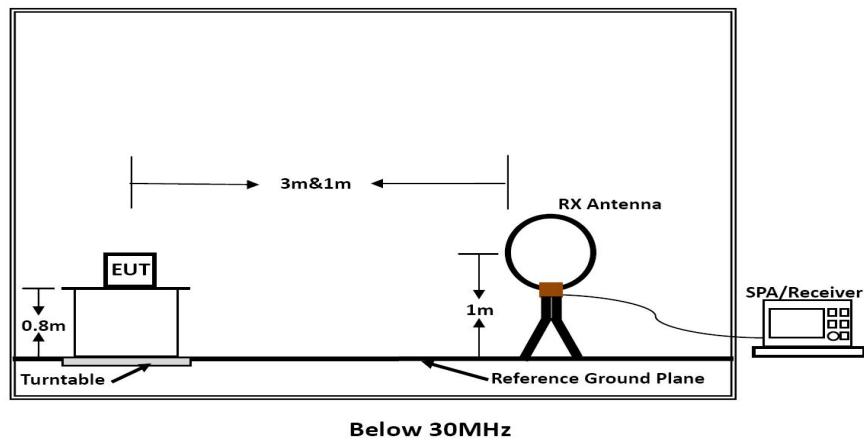


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1		0.1500	41.19	15.14	56.33	66.00	-9.67	QP	
2		0.1598	22.26	15.15	37.41	55.47	-18.06	AVG	
3		0.1860	37.27	15.17	52.44	64.21	-11.77	QP	
4		0.1997	23.36	15.18	38.54	53.62	-15.08	AVG	
5	*	0.5595	34.18	15.31	49.49	56.00	-6.51	QP	
6		0.5865	15.52	15.29	30.81	46.00	-15.19	AVG	
7		2.6565	30.32	15.44	45.76	56.00	-10.24	QP	
8		2.7915	12.24	15.45	27.69	46.00	-18.31	AVG	
9		3.1560	29.12	15.46	44.58	56.00	-11.42	QP	
10		3.3000	11.50	15.46	26.96	46.00	-19.04	AVG	
11		18.6585	28.37	16.11	44.48	60.00	-15.52	QP	
12		19.5360	8.24	16.07	24.31	50.00	-25.69	AVG	

\*\*\*Note: Pre-scan all modes and recorded the worst case results in this report.

## 7. RADIATED EMISSION MEASUREMENT

### 7.1. Block Diagram of Test Setup



## 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 MHz	Distance Meters	Field Strengths Limit	
		dB $\mu$ V/m	Remark
0.009~30MHz	3	103.5	Quasi-peak

Remark:

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

## 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 ( $\pm 45^\circ$ ) 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

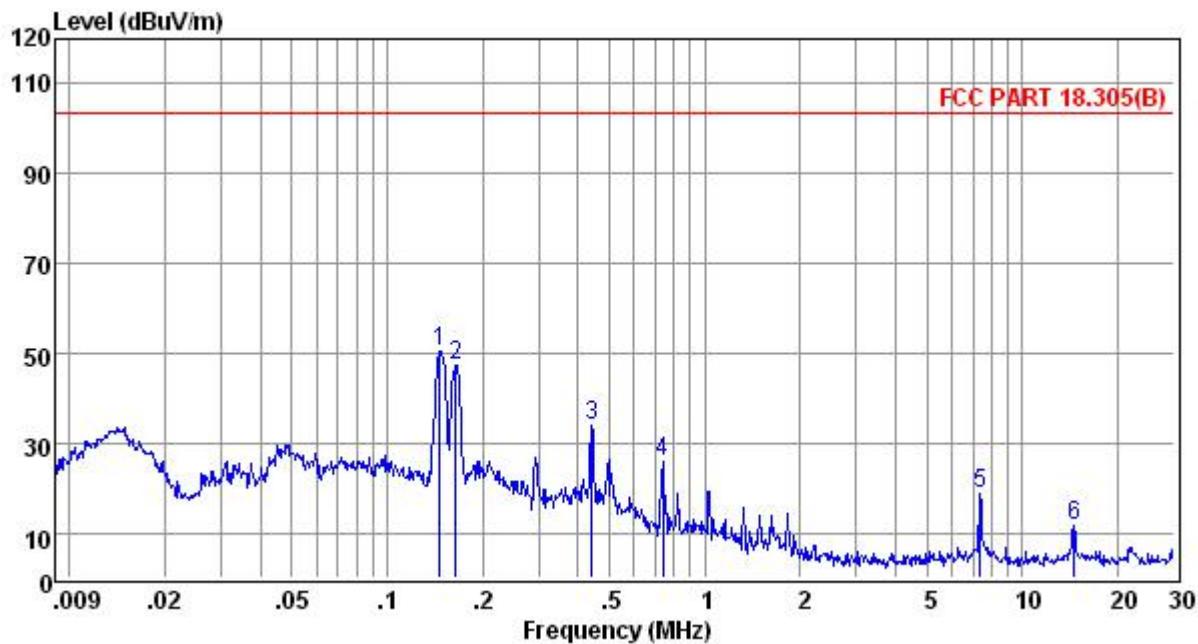
PASS.

*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	Diamond Lu	Configurations	Transmit

0.009 MHz – 30 MHz



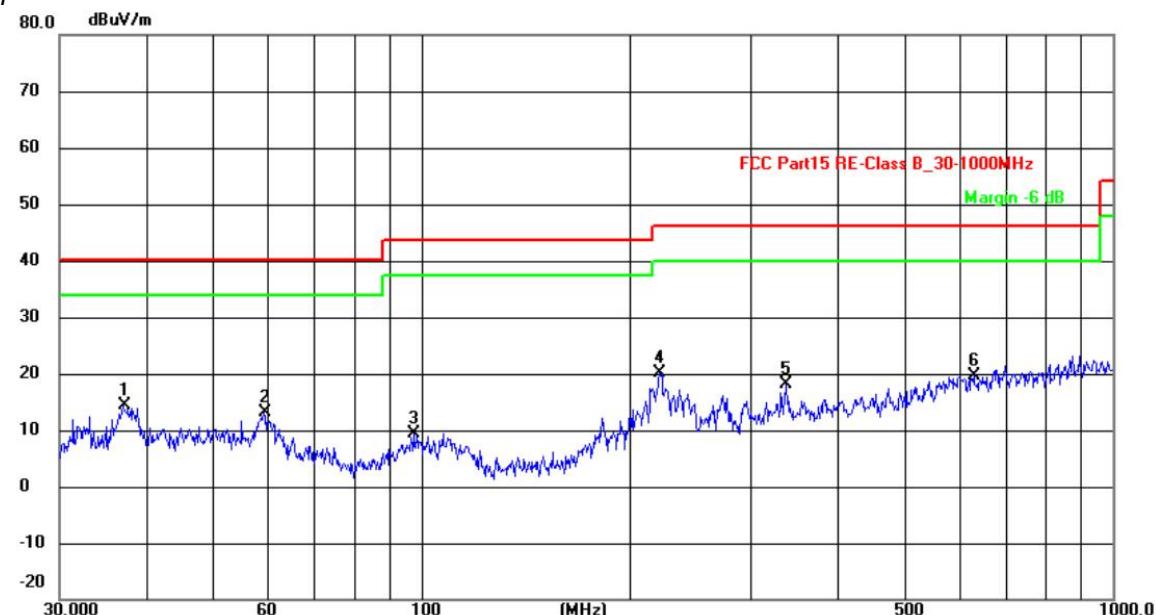
Frequency (MHz)	Meter Reading @3m (dBuV/m)	Polarity	Antenna Factor (dB/m)	Cable loss (dB)	Emission Levels @3m (dBuV/m)	Limit @3m (dBuV/m)	Detector Mode (QP)	Test Result
0.15	26.64	Horizontal	23.36	0.30	50.30	103.50	QP	Pass
0.16	24.02	Horizontal	23.17	0.30	47.49	103.50	QP	Pass
0.55	12.55	Horizontal	21.23	0.30	34.08	103.50	QP	Pass
0.74	4.36	Horizontal	21.07	0.30	25.73	103.50	QP	Pass
7.37	-4.33	Horizontal	22.69	0.30	18.66	103.50	QP	Pass
14.57	-14.01	Horizontal	25.10	0.30	11.39	103.50	QP	Pass

Remark: Measured at antenna position 0 degree and 90 degree, recorded worst case at 0 degree.

**Below 1GHz***Horizontal*

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	39.0245	30.76	-16.32	14.44	40.00	-25.56	QP
2	58.8185	29.95	-16.61	13.34	40.00	-26.66	QP
3	107.1337	26.55	-17.23	9.32	43.50	-34.18	QP
4	183.2005	38.78	-19.19	19.59	43.50	-23.91	QP
5	221.3921	42.99	-16.51	26.48	46.00	-19.52	QP
6	337.2155	33.06	-13.71	19.35	46.00	-26.65	QP

Vertical



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	37.1550	31.34	-16.91	14.43	40.00	-25.57	QP
2	59.2325	29.82	-16.68	13.14	40.00	-26.86	QP
3	97.4560	27.16	-17.79	9.37	43.50	-34.13	QP
4	221.3921	36.57	-16.51	20.06	46.00	-25.94	QP
5	337.2155	31.76	-13.71	18.05	46.00	-27.95	QP
6	629.4772	27.65	-8.02	19.63	46.00	-26.37	QP

## 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.

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