



## Test Report

Date : 2017-06-22

No. : MH193439

Page 1 of 16

**Applicant** : HUIZHOU QINGTENG ELECTRON TECHNOLOGY CO., LTD  
He-Bei Village. Lilin Town, Zhongkai Hi-tech Development Zone,  
Huizhou City, Guangdong China

**Supplier / Manufacturer** : HUIZHOU QINGTENG ELECTRON TECHNOLOGY CO., LTD  
He-Bei Village. Lilin Town, Zhongkai Hi-tech Development Zone,  
Huizhou City, Guangdong China

**Description of Sample(s)** : Submitted sample(s) said to be  
Product: FM Transmitter  
Brand Name: SAKAR  
Model No.: 21388  
FCC ID: 2AAWN21388FMT

**Date Samples Received** : 2017-06-02

**Date Tested** : 2017-06-14 to 2017-06-21

**Investigation Requested** : Perform ElectroMagnetic Interference measurement in accordance with FCC 47CFR [Codes of Federal Regulations] Part 15: 2015 and ANSI C63.10:2013 for FCC Certification.

**Conclusions** : The submitted product COMPLIED with the requirements of Federal Communications Commission [FCC] Rules and Regulations Part 15. The tests were performed in accordance with the standards described above and on Section 2.2 in this Test Report.

**Remarks** : ---



Dr. LEE Kam Chuen  
Authorized Signatory

ElectroMagnetic Compatibility Department  
For and on behalf of

The Hong Kong Standards and Testing Centre Ltd.

The Hong Kong Standards and Testing Centre Limited

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Unit B, 10/F, Block 1, Tai Ping Industrial Centre, No. 57 Ting Kok Road, Tai Po, N.T., Hong Kong

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## Test Report

Date : 2017-06-22

No. : MH193439

Page 2 of 16

### CONTENT:

Cover	Page 1 of 16	
Content	Page 2 of 16	
<b><u>1.0</u></b>	<b><u>General Details</u></b>	
1.1	Test Laboratory	Page 3 of 16
1.2	Equipment Under Test [EUT] Description of EUT operation	Page 3 of 16
1.3	Date of Order	Page 3 of 16
1.4	Submitted Sample(s)	Page 3 of 16
1.5	Test Duration	Page 3 of 16
1.6	Country of Origin	Page 3 of 16
<b><u>2.0</u></b>	<b><u>Technical Details</u></b>	
2.1	Investigations Requested	Page 4 of 16
2.2	Test Standards and Results Summary	Page 4 of 16
<b><u>3.0</u></b>	<b><u>Test Results</u></b>	
3.1	Emission	Page 5-9 of 16
3.2	20dB Bandwidth of Fundamental Emission	Page 10-13 of 16
<b><u>Appendix A</u></b>		
List of Measurement Equipment		Page 14 of 16
<b><u>Appendix B</u></b>		
Ancillary Equipment		Page 14 of 16
<b><u>Appendix C</u></b>		
Photograph(s) of Product		Page 15-16 of 16

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## Test Report

Date : 2017-06-22

Page 3 of 16

No. : MH193439

### **1.0 General Details**

#### **1.1 Test Laboratory**

The Hong Kong Standards and Testing Centre Ltd.

EMC Laboratory

Head Office: 10 Dai Wang Street, Taipo Industrial Estate, Tai Po, N.T., Hong Kong

Telephone: 852 2666 1888

Fax: 852 2664 4353

#### **1.2 Equipment Under Test [EUT]**

##### **Description of Sample(s)**

Product: FM Transmitter

Manufacturer: HUIZHOU QINGTENG ELECTRON TECHNOLOGY CO., LTD

He-Bei Village. Lilin Town, Zhongkai Hi-tech Development Zone, Huizhou City, Guangdong China

Brand Name: SAKAR

Model Number: 21388

Rating: 5Vd.c (Power by USB port)

#### **1.2.1 Description of EUT Operation**

The Equipment Under Test (EUT) is a FM Transmitter. The transmitter is a manually operated transmitter. It is FM transmitter. Modulation by IC; and type is FM modulation. The maximum tuning range 88.1MHz-107.9MHz.

#### **1.3 Date of Order**

2017-06-02

#### **1.4 Submitted Sample(s):**

1 Sample

#### **1.5 Test Duration**

2017-06-14 to 2017-06-21

#### **1.6 Country of Origin**

China

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## Test Report

Date : 2017-06-22

Page 4 of 16

No. : MH193439

### 2.0 Technical Details

#### **2.1 Investigations Requested**

Perform ElectroMagnetic Interference measurement in accordance with FCC 47CFR [Codes of Federal Regulations] Part 15: 2015 and ANSI C63.10: 2013 for FCC Certification.

#### **2.2 Test Standards and Results Summary Tables**

<b>EMISSION Results Summary</b>						
Test Condition	Test Requirement	Test Method	Class / Severity	Test Result		
				Pass	Failed	N/A
Field Strength of Fundamental Emissions & Spurious Emissions	FCC 47CFR 15.239	ANSI C63.10: 2013	N/A	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
20dB Bandwidth of Fundamental Emission	FCC 47CFR 15.239	ANSI C63.10: 2013	N/A	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Radiated Emissions	FCC 47CFR 15.209	ANSI C63.10: 2013	N/A	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Note: N/A - Not Applicable

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## Test Report

Date : 2017-06-22

No. : MH193439

Page 5 of 16

### 3.0 Test Results

#### 3.1 Emission

##### 3.1.1 Radiated Emissions

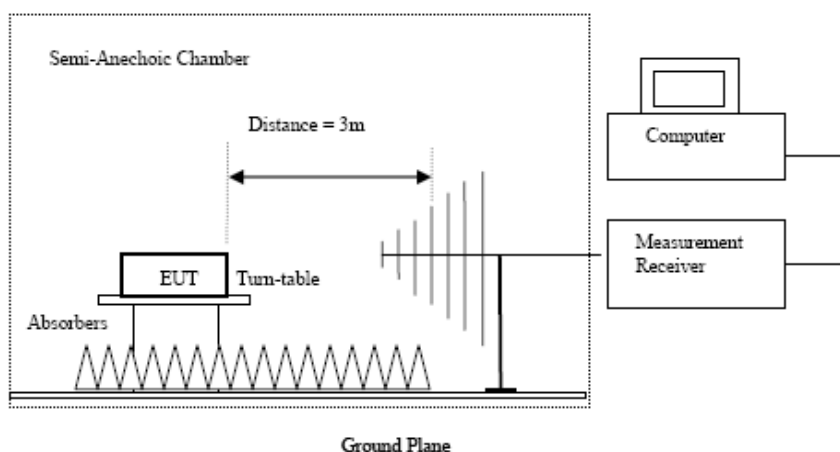
Test Requirement:	FCC 47CFR 15.239
Test Method:	ANSI C63.10:2013
Test Date:	2017-06-14
Mode of Operation:	Tx mode

#### **Test Method:**

For emission measurements at or below 1 GHz, the sample was placed 0.8m above the ground plane of semi-anechoic Chamber\*. For emission measurements above 1 GHz, the sample was placed 1.5m above the ground plane of semi-anechoic Chamber\*. Measurements in both horizontal and vertical polarities were performed. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, rotating turntable, varying antenna height from 1m to 4m in both horizontal and vertical polarizations. The emissions worst-case are shown in Test Results of the following pages.

\* Semi-Anechoic chamber located on the G/F of The Hong Kong Standards and Testing Centre Ltd. with a metal ground plane filed with the FCC pursuant to section 2.948 of the FCC rules, with Registration Number: 607756.

#### **Test Setup:**



- Absorbers placed on top of the ground plane are for measurements above 1000MHz only.
- Measurements between 30MHz to 1000MHz made with Bi-log antennas, above 1000MHz horn antennas are used, 9kHz to 30MHz loop antennas are used.

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## Test Report

Date : 2017-06-22

Page 6 of 16

No. : MH193439

**Limits for Field Strength of Fundamental Emissions [FCC 47CFR 15.239]:**

Frequency Range of Fundamental [MHz]	Field Strength of Fundamental Emission [Average] [μV/m]
88-108	250

The field strength of any emissions within the permitted 200 kHz band shall not exceed 250 microvolts/meter at 3 meters. The emission limit in this paragraph is based on measurement instrumentation employing an average detector. The provisions in §15.35 for limiting peak emissions apply

**Results of Tx mode(88.1MHz): PASS**

Field Strength of Fundamental Emissions Peak Value						
Frequency MHz	Measured Level @3m dBμV	Correction Factor dB/m	Field Strength dBμV/m	Field Strength μV/m	Limit @3m μV/m	E-Field Polarity
88.10	33.0	10.1	43.1	142.9	2,500.0	Vertical
88.10	39.5	10.0	49.5	298.5	2,500.0	Horizontal

Field Strength of Fundamental Emissions Average Value						
Frequency MHz	Average Value Level @3m dBμV	Duty Cycle Factor dB	Field Strength dBμV/m	Field Strength μV/m	Limit @3m μV/m	E-Field Polarity
88.10	30.6	10.1	40.7	108.4	250.0	Vertical
88.10	36.5	10.0	46.5	211.3	250.0	Horizontal

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## Test Report

Date : 2017-06-22

Page 7 of 16

No. : MH193439

**Results of Tx mode(98.1MHz): PASS**

<b>Field Strength of Fundamental Emissions</b>						
<b>Peak Value</b>						
Frequency MHz	Measured Level @3m dBμV	Correction Factor dB/m	Field Strength dBμV/m	Field Strength μV/m	Limit @3m μV/m	E-Field Polarity
98.10	25.7	12.2	37.9	78.5	2,500.0	Vertical
98.10	35.4	12.8	48.2	257.0	2,500.0	Horizontal

<b>Field Strength of Fundamental Emissions</b>						
<b>Average Value</b>						
Frequency MHz	Average Value Level @3m dBμV	Duty Cycle Factor dB	Field Strength dBμV/m	Field Strength μV/m	Limit @3m μV/m	E-Field Polarity
98.10	23.2	12.2	35.4	58.9	250.0	Vertical
98.10	32.5	12.8	45.3	184.1	250.0	Horizontal

**Results of Tx mode(107.9MHz): PASS**

<b>Field Strength of Fundamental Emissions</b>						
<b>Peak Value</b>						
Frequency MHz	Measured Level @3m dBμV	Correction Factor dB/m	Field Strength dBμV/m	Field Strength μV/m	Limit @3m μV/m	E-Field Polarity
107.90	21.9	13.3	35.2	57.5	2,500.0	Vertical
107.90	34.9	13.5	48.4	263.0	2,500.0	Horizontal

<b>Field Strength of Fundamental Emissions</b>						
<b>Average Value</b>						
Frequency MHz	Average Value Level @3m dBμV	Duty Cycle Factor dB	Field Strength dBμV/m	Field Strength μV/m	Limit @3m μV/m	E-Field Polarity
107.90	19.4	13.3	32.7	43.2	250.0	Vertical
107.90	31.6	13.5	45.1	179.9	250.0	Horizontal

**Remarks:**

Correction Factor includes Antenna Factor and Cable Attenuation.

Calculated measurement uncertainty (30MHz – 1GHz): 4.6dB

Emissions in the vertical and horizontal polarizations have been investigated and the worst-case test results are recorded in this report.

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## Test Report

Date : 2017-06-22

Page 8 of 16

No. : MH193439

**Limits for Radiated Emissions FCC 47 CFR 15.209 Class B]:**

Frequency Range [MHz]	Quasi-Peak Limits [μV/m]
0.009-0.490	2400/F (kHz)
0.490-1.705	24000/F (kHz)
1.705-30	30
30-88	100
88-216	150
216-960	200
Above960	500

The emission limits shown in the above table are based on measurement employing a CISPR quasi-peak detector and above 1000MHz are based on measurements employing an average detector.

**Result of Tx mode (9kHz - 30MHz): PASS**

Emissions detected are more than 20 dB below the limit line(s).

**Results of Tx mode (88.1GHz): PASS**

<b>Radiated Emissions Quasi-Peak</b>					
Emission Frequency MHz	E-Field Polarity	Level @3m dBμV/m	Limit @3m dBμV/m	Level @3m μV/m	Limit @3m μV/m
76.2	Vertical	23.7	40.0	15.3	100
30.7	Horizontal	31.5	40.0	37.6	100
324.7	Horizontal	31.2	46.0	36.3	200
87.9	Horizontal	38.1	40.0	80.4	100

**Results of Tx mode (98.1GHz): PASS**

<b>Radiated Emissions Quasi-Peak</b>					
Emission Frequency MHz	E-Field Polarity	Level @3m dBμV/m	Limit @3m dBμV/m	Level @3m μV/m	Limit @3m μV/m
347.1	Vertical	31.1	46.0	35.9	200
30.4	Horizontal	32.3	40.0	41.2	100
86.6	Horizontal	24.9	40.0	17.6	100

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## Test Report

Date : 2017-06-22

Page 9 of 16

No. : MH193439

### Results of Tx mode (107.9GHz): PASS

Radiated Emissions Quasi-Peak					
Emission Frequency MHz	E-Field Polarity	Level @3m dB $\mu$ V/m	Limit @3m dB $\mu$ V/m	Level @3m $\mu$ V/m	Limit @3m $\mu$ V/m
39.8	Vertical	25.6	40.0	19.1	100
519.0	Vertical	38.6	46.0	85.1	200
41.3	Horizontal	22.1	40.0	12.7	100
216.0	Horizontal	29.1	43.5	28.5	150
108.1	Horizontal	39.0	43.5	89.1	150

#### Remarks:

Correction Factor includes Antenna Factor and Cable Attenuation.

Calculated measurement uncertainty (30MHz – 1GHz): 4.6dB

Emissions in the vertical and horizontal polarizations have been investigated and the worst-case test results are recorded in this report.

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## Test Report

Date : 2017-06-22

No. : MH193439

Page 10 of 16

### 3.2 20dB Bandwidth of Fundamental Emission

Test Requirement:	FCC 47 CFR 15.239
Test Method:	ANSI C63.10:2013
Test Date:	2017-06-21
Mode of Operation:	Tx mode

#### Test Method:

The bandwidth is measured at an amplitude level reduced from the reference level by a specified ratio. The reference level is the level of the highest amplitude signal observed from the transmitter at the fundamental frequency. Once the reference level is established, the equipment is conditioned with typical modulating signal to produce the worst-case (i.e. the widest) bandwidth.

#### The Requirement For Section 15.239(a)

Emissions from the intentional radiator shall be confined within a band 200 kHz wide centered on the operating frequency. The 200 kHz band shall lie wholly within the frequency range of 88-108 MHz

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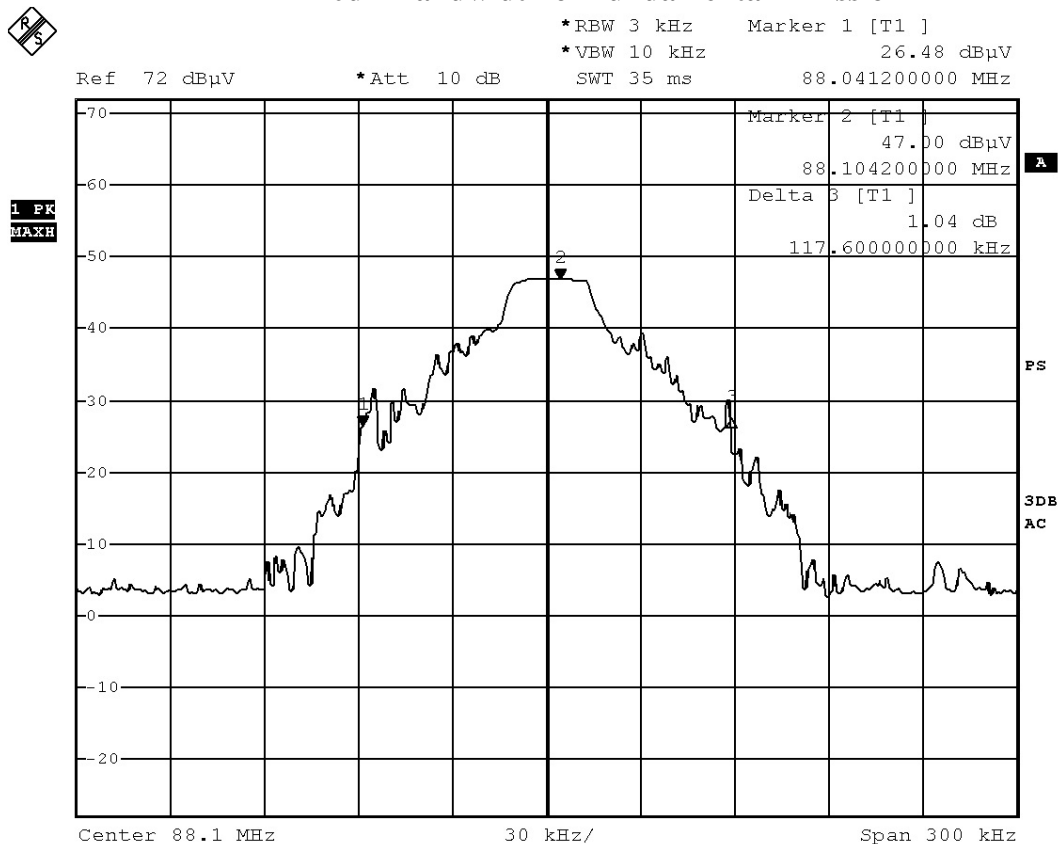
Page 11 of 16

No. : MH193439

**Tx mode (88.1MHz) Emission Bandwidth:**

Frequency Range [MHz]	20dB Bandwidth [kHz]	FCC Limits [kHz]
88-108	117.6	200

### 20dB Bandwidth of Fundamental Emission



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Date : 2017-06-22

Page 12 of 16

No. : MH193439

**Tx mode (98.1MHz) Emission Bandwidth:**

Frequency Range [MHz]	20dB Bandwidth [kHz]	FCC Limits [kHz]
88-108	94.2	200

### 20dB Bandwidth of Fundamental Emission

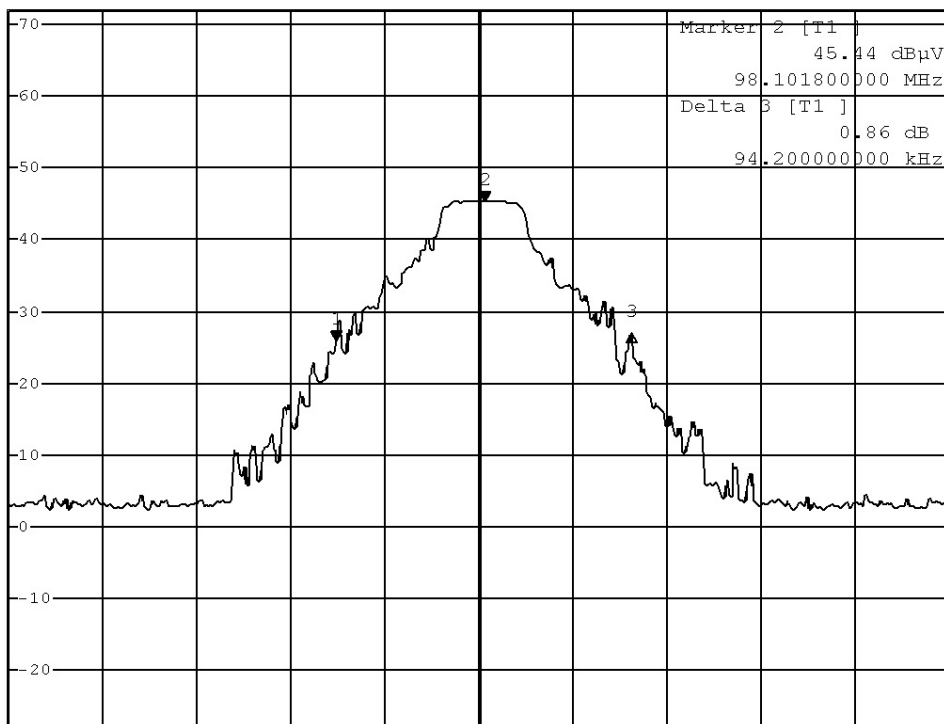


\*RBW 3 kHz      Marker 1 [T1 ]  
 \*VBW 10 kHz      26.01 dBμV  
 SWT 35 ms      98.054400000 MHz

Ref 72 dBμV

\*Att 10 dB

1 PK  
MAXH



Center 98.1 MHz

30 kHz/

Span 300 kHz

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## Test Report

Date : 2017-06-22

Page 13 of 16

No. : MH193439

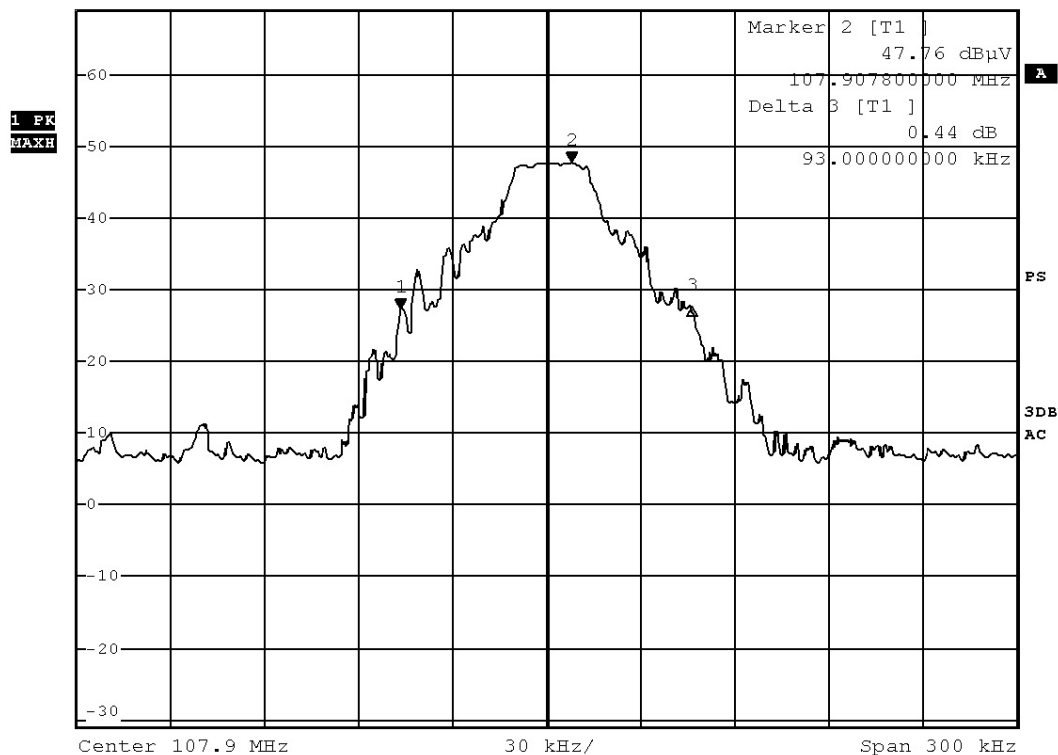
**Tx mode (107.9MHz) Emission Bandwidth:**

Frequency Range [MHz]	20dB Bandwidth [kHz]	FCC Limits [kHz]
88-108	93.0	200

### 20dB Bandwidth of Fundamental Emission



\*RBW 3 kHz      Marker 1 [T1 ]  
 \*VBW 10 kHz      27.29 dBμV  
 \*Att 15 dB      SWT 35 ms      107.853200000 MHz



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## Test Report

Date : 2017-06-22

Page 14 of 16

No. : MH193439

### Appendix A

#### List of Measurement Equipment

##### Radiated Emission

EQP NO.	DESCRIPTION	MANUFACTURER	MODEL NO.	SERIAL NO.	LAST CAL	DUE CAL
EM299	Double-Ridged Waveguide Horn Antenna	ETS-Lindgren	3115	00114120	2016/04/27	2018/04/27
EM300	Pyramidal Standard Gain Horn Antenna	ETS-Lindgren	3160-09	00130130	2016/05/13	2018/05/13
EM301	Pyramidal Standard Gain Horn Antenna	ETS-Lindgren	3160-10	00130988	2016/05/13	2018/05/13
EM215	MULTIDEVICE CONTROLLER	EMCO	2090	00024676	N/A	N/A
EM216	MINI MAST SYSTEM	EMCO	2075	00026842	N/A	N/A
EM217	ELECTRIC POWERED TURNTABLE	EMCO	2088	00029144	N/A	N/A
EM218	ANECHOIC CHAMBER	ETS-LINDGREN	FACT-3	--	2017/04/20	2018/04/20
EM355	Biconilog Antenna	ETS-Lindgren	3143B	00094856	2016/03/03	2018/03/03
EM353	LOOP ANTENNA	ETS_LINDGREN	6502	00206533	2016/03/16	2018/03/16
EM293	Spectrum Analyzer	Agilent Technologies	N9020A	MY50510152	2016/08/22	2017/08/22

##### Line Conducted

EQP NO.	DESCRIPTION	MANUFACTURER	MODEL NO.	SERIAL NO.	LAST CAL	DUE CAL
EM119	LISN	R & S	ESH3-Z5	0831.5518.52	2016/11/29	2017/11/29
EM145	EMI TEST RECEIVER	R & S	ESCS 30	830245/021	2017/06/01	2018/06/01
EM179	IMPULSE LIMITER	ROHDE & SCHWARZ	ESH3-Z2	357-8810.52/54	2017/01/11	2018/01/11
EM154	SHIELDING ROOM	SIEMENS MATSUSHITA COMPONENTS	N/A	803-740-057-99A	2017/02/02	2022/02/02

Remarks:-

CM Corrective Maintenance

N/A Not Applicable

TBD To Be Determined

### Appendix B

#### Ancillary Equipment

ITEM NO.	DESCRIPTION	MODEL NO.	FCC ID	REMARK
1	iPod Touch	A1367	BCG-E2407	N/A

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## Test Report

Date : 2017-06-22  
No. : MH193439

Page 15 of 16

### Appendix C

#### Photographs of EUT

**Front View of the product**



**Rear View of the product**



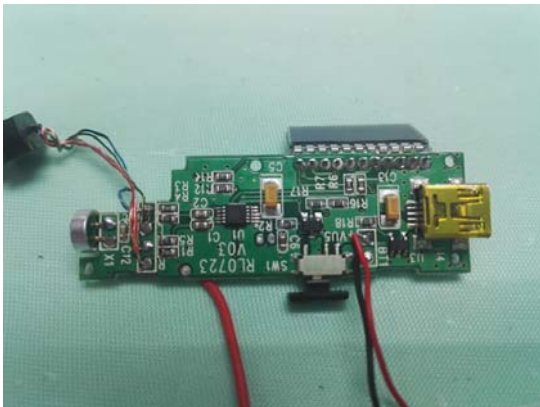
**Inside View of the product**



**Inner Circuit Top View**



**Inner Circuit Bottom View**



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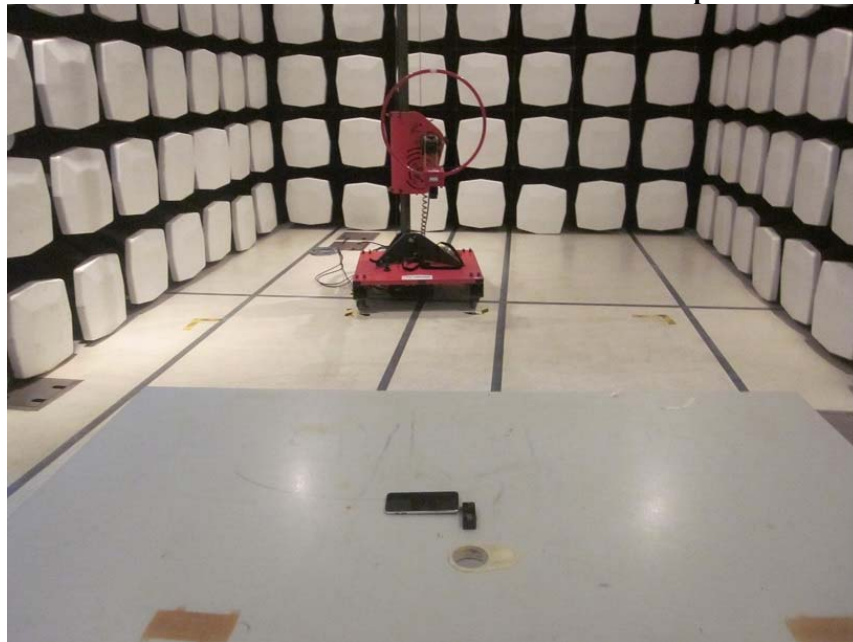
Date : 2017-06-22

Page 16 of 16

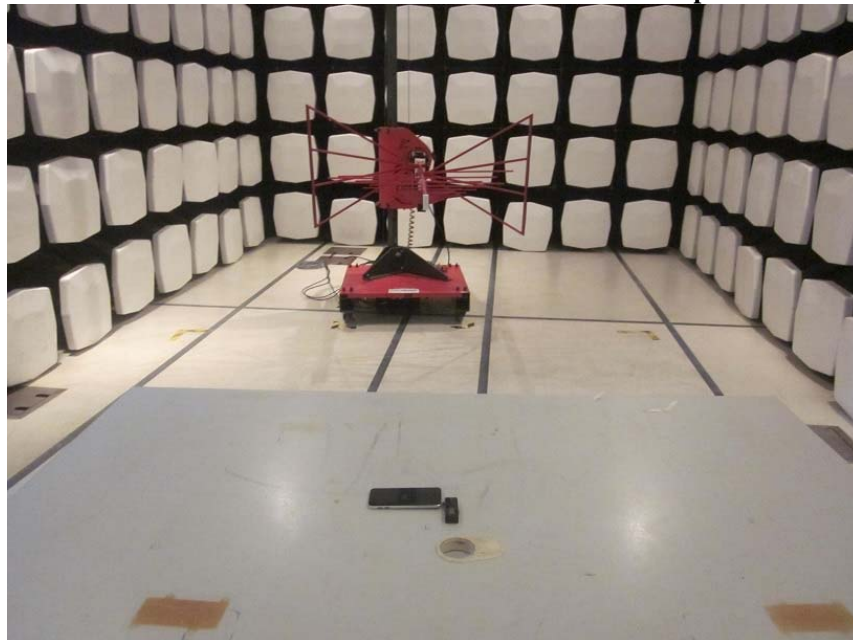
No. : MH193439

### Photographs of EUT

**Measurement of Radiated Emission Test Set Up**



**Measurement of Radiated Emission Test Set Up**



**\*\*\*\*\* End of Test Report \*\*\*\*\***



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