

# FCC Test Report

## FCC ID: 2AF7A-A1

**Product:** Bluetooth Speaker

**Trade Mark:** **MiFa**

**Model Number:** A1

**Serial Model:** N/A

**Report No.:** NTEK-2017NT07215036F3

**Prepared for**

Shenzhen Mercury Innovations Science and Technology Ltd  
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**Prepared by**

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### TEST RESULT CERTIFICATION

**Applicant's name** ..... Shenzhen Mercury Innovations Science and Technology Ltd  
 Address..... 3rd & 5th Floor, Building A1,XixiangTongFuYu Industrial Park,  
 Bao'an District, Shenzhen, CN

**Manufacturer's Name** ..... Shenzhen Mercury Innovations Science and Technology Ltd  
 Address..... 3rd & 5th Floor, Building A1,XixiangTongFuYu Industrial Park,  
 Bao'an District, Shenzhen, CN

**Product description**

Product name..... Bluetooth Speaker

Model and/or type

reference ..... A1

FCC Part15B

**Standards** ..... ANSI C63.4:2014

This device described above has been tested by NTEK, and the test results show that the equipment under test (EUT) is in compliance with Part 15 of FCC Rules. And it is applicable only to the tested sample identified in the report.

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**Date of Test** .....

Date (s) of performance of tests..... 21 Jul. 2017 ~14 Sep. 2017

Date of Issue ..... 14Sep. 2017

Test Result ..... **Pass**

Testing Engineer : Allen Liu  
 (Allen Liu)

Technical Manager : Jason Chen  
 (Jason Chen)

Authorized Signatory : Sam Chen  
 (Sam Chen)

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## 1. TEST SUMMARY

Test procedures according to the technical standards:

EMC Emission				
Standard	Test Item	Limit	Judgment	Remark
FCC Part15B ANSI C63.4: 2014	Conducted Emission	Class B	PASS	
	Radiated Emission	Class B	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 TEST FACILITY

Shenzhen NTEK Testing Technology Co., Ltd  
 Add. : 1/F, Building E, Fenda Science Park, Sanwei Community, Xixiang Street, Bao'an District, Shenzhen 518126 P.R. China.  
 FCC Registration Number:463705; IC Registration Number:9270A-1  
 CNAS Registration Number:L5516

### 1.2 MEASUREMENT UNCERTAINTY

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

#### A. Conducted Measurement :

Test Site	Method	Measurement Frequency Range	U, (dB)	NOTE
NTEKC01	ANSI	150 KHz ~ 30MHz	3.2	

#### B. Radiated Measurement :

Test Site	Method	Measurement Frequency Range	U, (dB)	NOTE
NTEKA01	ANSI	30MHz ~ 1000MHz	4.7	
		1GHz ~12.4GHz	5.0	

## 2. GENERAL INFORMATION

### 2.1 GENERAL DESCRIPTION OF EUT

Equipment	Bluetooth Speaker	
Trade Mark	<b>Mifa</b>	
Model Name	A1	
Serial Model	N/A	
Model Difference	N/A	
Product Description	The EUT is a Bluetooth Speaker.	
	Connecting I/O port:	USB, TFCard,Audio in
	Operation Frequency:	BT:2402~2480 MHz
	Modulation Type:	BT(1Mbps)/BLE: GFSK BT EDR(2Mbps): $\pi/4$ -DQPSK BT EDR(3Mbps): 8-DPSK
Power Source	DC 3.7V from Battery.	
Adapter	N/A	
Battery	DC 3.7V,1200mAh	
HW Version	ATS2815-V1.1	
SW Version	Mifa_A1_US2815_FT_ATT_1.6PF_17.07.26_V2.01_ZS	

### 2.1.1 DESCRIPTION OF TEST MODES

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

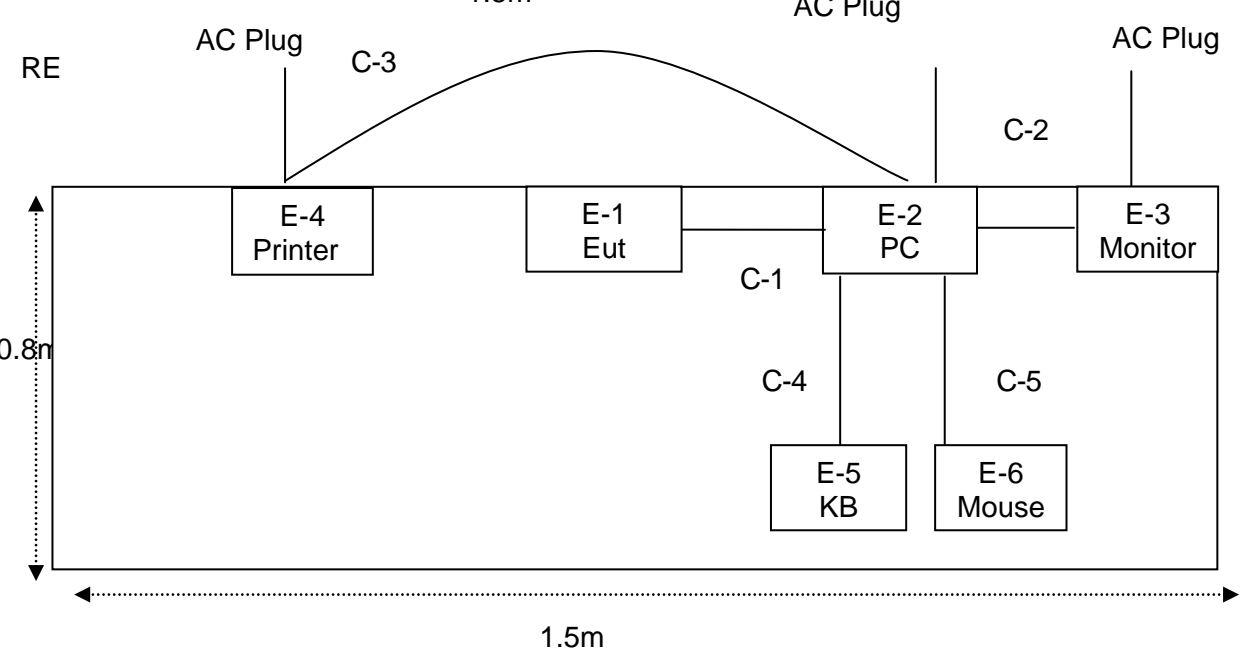
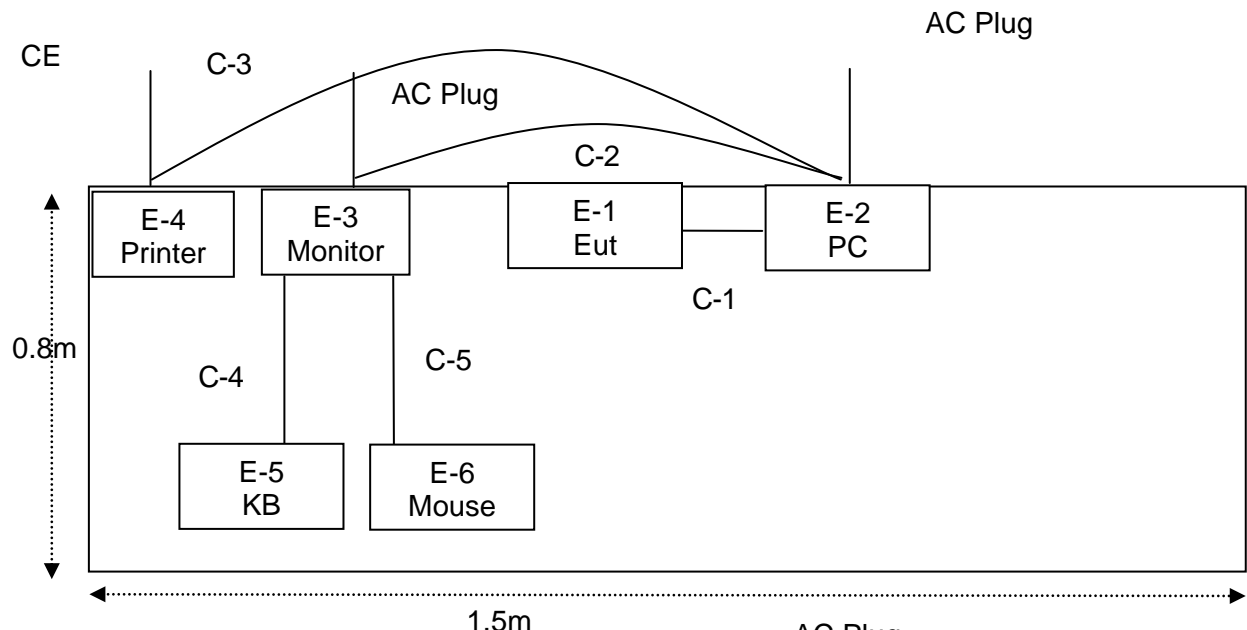
Pretest Mode	Description
Mode 1	USB Data link mode
Mode 2	Aux in playing
Mode 3	BT playing
Mode 4	TF Card playing

For Conducted Test	
Final Test Mode	Description
Mode 1	USB Data link mode
Mode 2	Aux in playing
Mode 3	BT playing
Mode 4	TF Card playing

For Radiated Test	
Final Test Mode	Description
Mode 1	USB Data link mode
Mode 2	Aux in playing
Mode 3	BT playing
Mode 4	TF Card playing

Note: Final Test Mode: Through Pre-scan, find the mode 1 is the worst case.  
Only the worst case mode is recorded in the report.

2.2 DESCRIPTION OF TEST SETUP





### 2.3 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	Brand	Model/Type No.	Series No.	Note
E-1	Bluetooth Speaker	AKASO, DragonTouch, KINGSLIM	A1	N/A	EUT
E-2	PC	DELL	FT4Y23X	34413561645	
E-3	Monitor	SHARP	LCD-32MS46A	09426089241597	Peripherals
E-4	Printer	Canon	L11121E	LBP2900	Peripherals
E-5	KB	DELL	SK-8185	OY526KUS	
E-6	Mouse	DELL	MS111-P	cn-011d3v-71581-11e-1th 7	Peripherals

Item	Cable Type	Shielded Type	Ferrite Core	Length	Note
C-1	USB Cable	NO	NO	1.2m	
C-2	HDMI Cable	NO	NO	1.0m	
C-3	USB Cable	NO	NO	1.2m	
C-4	KB Cable	NO	NO	1.2m	
C-5	Mouse Cable	NO	NO	1.2m	

**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”.

## 2.4 MEASUREMENT INSTRUMENTS LIST

### Radiation Test equipment

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibration period
1	Spectrum Analyzer	Agilent	E4407B	MY45108040	2017.06.06	2018.06.05	1 year
2	Test Receiver	R&S	ESPI	101318	2017.06.06	2018.06.05	1 year
3	Bilog Antenna	TESEQ	CBL6111D	31216	2017.04.09	2018.04.08	1 year
4	50Ω Coaxial Switch	Anritsu	MP59B	6200264416	2017.06.06	2018.06.05	1 year
5	Spectrum Analyzer	ADVANTEST	R3132	150900201	2017.06.06	2018.06.05	1 year
6	Horn Antenna	EM	EM-AH-10180	2011071402	2017.04.09	2018.04.08	1 year
7	Horn Ant	Schwarzbeck	BBHA 9170	9170-181	2017.07.06	2018.07.05	1 year
8	Amplifier	EMC	EMC051835SE	980246	2017.08.09	2018.08.08	1 year
9	Loop Antenna	ARA	PLA-1030/B	1029	2017.06.06	2018.06.05	1 year
10	Power Meter	DARE	RPR3006W	15I00041SNO84	2017.08.09	2018.08.08	1 year
11	Power Sensor	R&S	URV5-Z4	0395.1619.05	2017.07.06	2018.07.05	1 year
12	Test Cable (30MHz-1GHz)	N/A	R-02	N/A	2017.04.21	2020.04.20	3 year
13	High Test Cable(1G-40GHz)	N/A	R-03	N/A	2017.04.21	2020.04.20	3 year
14	High Test Cable(1G-40GHz)	N/A	R-04	N/A	2017.04.21	2020.04.20	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	2017.06.06	2018.06.05	1 year
2	LISN	R&S	ENV216	101313	2017.04.19	2018.04.18	1 year
3	LISN	SCHWARZBECK	NNLK 8129	8129245	2017.06.06	2018.06.05	1 year
4	50Ω Coaxial Switch	ANRITSU CORP	MP59B	6200983704	2017.06.06	2018.06.05	1 year
5	Test Cable (9KHz-30MHz)	N/A	C01	N/A	2017.04.21	2020.04.20	3 year
6	Test Cable (9KHz-30MHz)	N/A	C02	N/A	2017.04.21	2020.04.20	3 year
7	Test Cable (9KHz-30MHz)	N/A	C03	N/A	2017.04.21	2020.04.20	3 year

### 3. EMC EMISSION TEST

#### 3.1 CONDUCTED EMISSION MEASUREMENT

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

FREQUENCY (MHz)	Class A (dBuV)		Class B (dBuV)	
	Quasi-peak	Average	Quasi-peak	Average
0.15 -0.5	79.00	66.00	66 - 56 *	56 - 46 *
0.50 -5.0	73.00	60.00	56.00	46.00
5.0 -30.0	73.00	60.00	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.

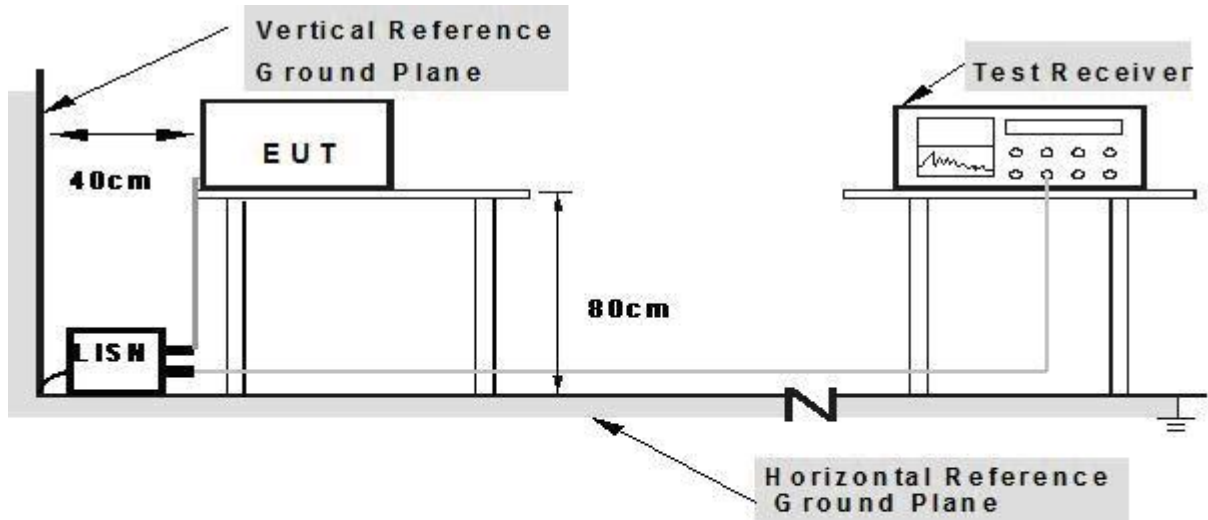
The following table is the setting of the receiver

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 cm 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.

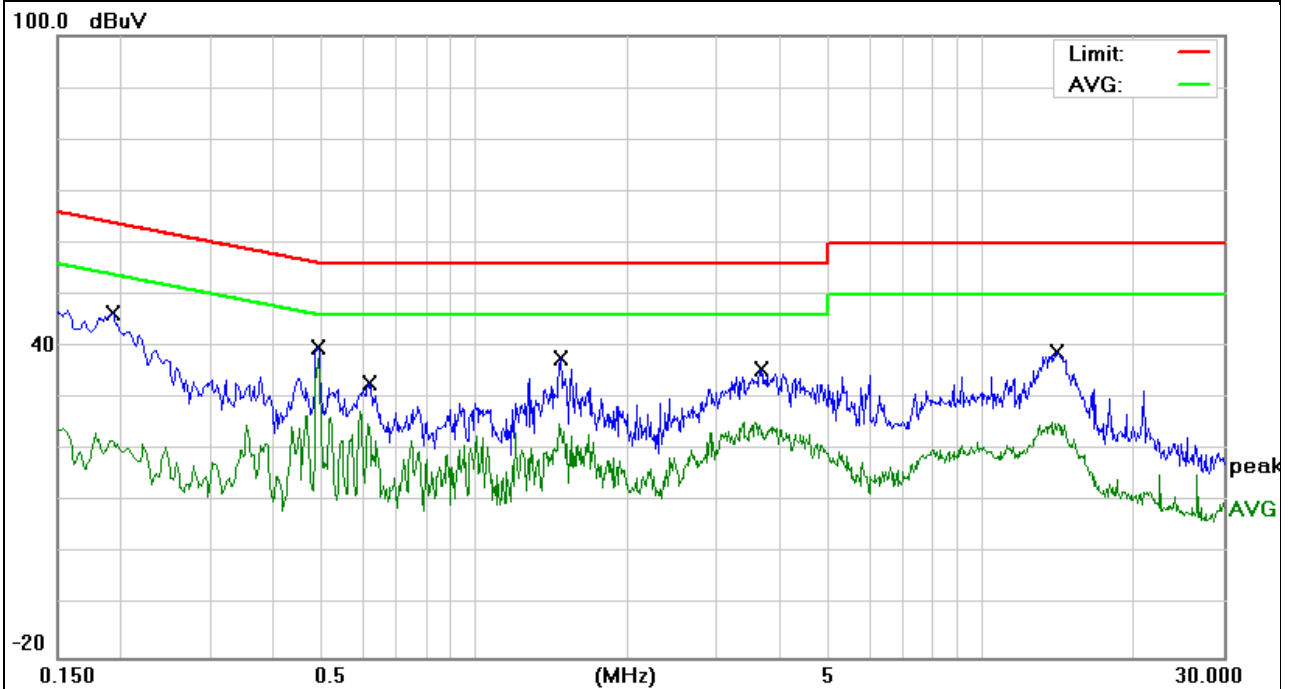
### 3.1.5 TEST RESULTS

EUT:	Bluetooth Speaker	Model Name. :	A1
Temperature:	26 °C	Relative Humidity:	54%
Pressure:	1010hPa	Test Date:	2017-7-21
Test Mode:	Mode 1	Phase :	L
Test Voltage:	DC 5V from PC AC120V/60Hz		

Frequency (MHz)	Reading Level (dBμV)	Correct Factor (dB)	Measure-ment (dBμV)	Limits (dBμV)	Margin (dB)	Remark
0.1922	36.8	9.7	46.50	63.94	-17.44	QP
0.1922	16.6	9.7	26.30	53.94	-27.64	AVG
0.4899	30.23	9.71	39.94	56.17	-16.23	QP
0.4899	15.43	9.71	25.14	46.17	-21.03	AVG
0.6179	23.34	9.71	33.05	56.00	-22.95	QP
0.6179	15.62	9.71	25.33	46.00	-20.67	AVG
1.4737	28.11	9.77	37.88	56.00	-18.12	QP
1.4737	14.38	9.77	24.15	46.00	-21.85	AVG
3.6619	25.65	9.96	35.61	56.00	-20.39	QP
3.6619	16.4	9.96	26.36	46.00	-19.64	AVG
14.0739	28.75	10.1	38.85	60.00	-21.15	QP
14.0739	15.35	10.1	25.45	50.00	-24.55	AVG

Remark:

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

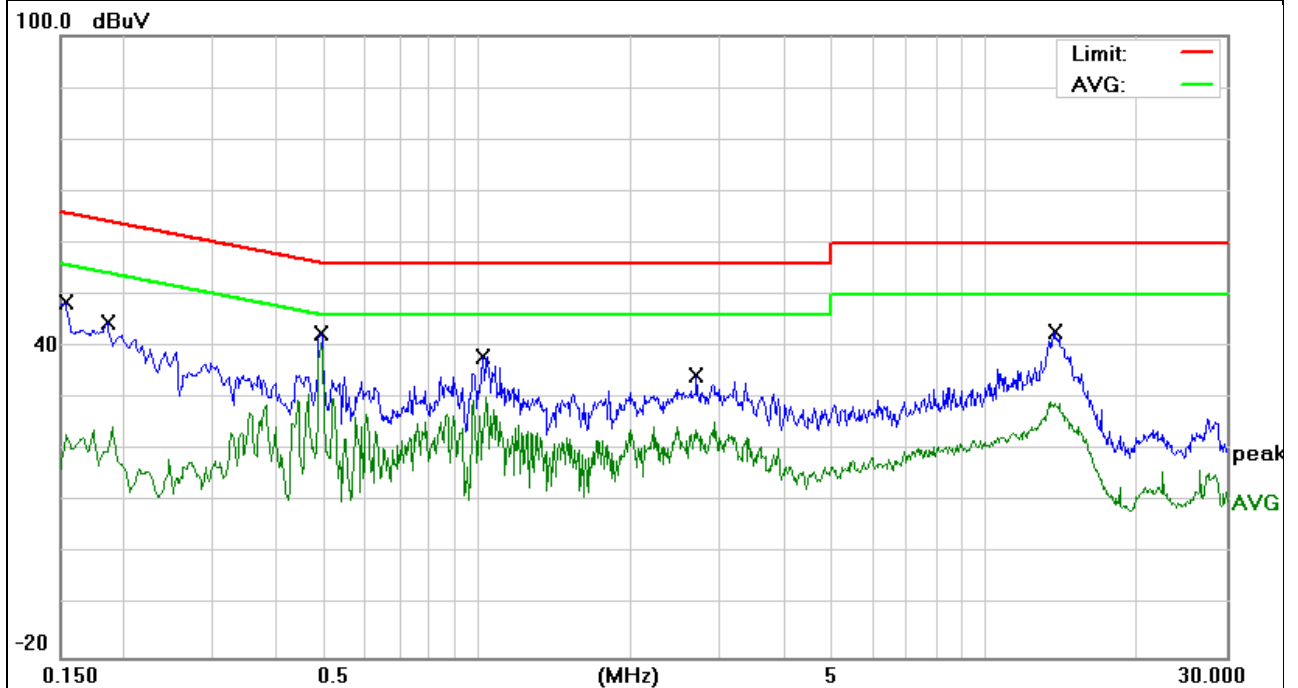


EUT:	Bluetooth Speaker	Model Name. :	A1
Temperature:	26 °C	Relative Humidity:	54%
Pressure:	1010hPa	Test Date:	2017-7-21
Test Mode:	Mode 1	Phase :	N
Test Voltage:	DC 5V from PC AC120V/60Hz		

Frequency (MHz)	Reading Level (dB $\mu$ V)	Correct Factor (dB)	Measure-ment (dB $\mu$ V)	Limits (dB $\mu$ V)	Margin (dB)	Remark
0.1539	38.66	9.80	48.46	65.78	-17.32	QP
0.1539	16.56	9.80	26.36	55.78	-29.42	AVG
0.1859	34.89	9.80	44.69	64.21	-19.52	QP
0.1859	15.65	9.80	25.45	54.21	-28.76	AVG
0.4899	32.86	9.81	42.67	56.17	-13.5	QP
0.4899	16.55	9.81	26.36	46.17	-19.81	AVG
1.0260	28.17	9.82	37.99	56.00	-18.01	QP
1.0260	15.63	9.82	25.45	46.00	-20.55	AVG
2.6939	24.64	9.84	34.48	56.00	-21.52	QP
2.6939	14.74	9.84	24.58	46.00	-21.42	AVG
13.7459	32.65	10.13	42.78	60.00	-17.22	QP
13.7459	16.56	10.13	26.69	50.00	-23.31	AVG

Remark:

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

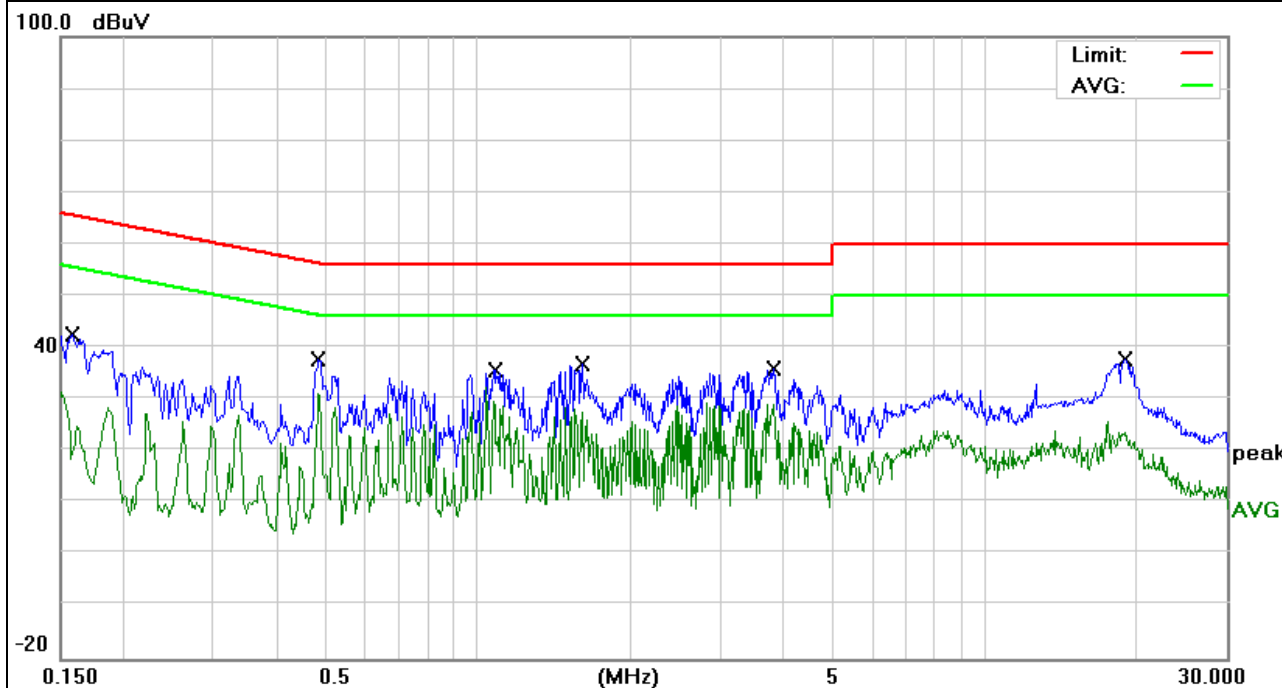


EUT:	Bluetooth Speaker	Model Name. :	A1
Temperature:	26 °C	Relative Humidity:	54%
Pressure:	1010hPa	Test Date:	2017-7-21
Test Mode:	Mode 1	Phase :	L
Test Voltage:	DC 5V from PC AC240V/60Hz		

Frequency (MHz)	Reading Level (dBμV)	Correct Factor (dB)	Measure-ment (dBμV)	Limits (dBμV)	Margin (dB)	Remark
0.158	32.86	9.7	42.56	65.56	-23	QP
0.158	16.63	9.7	26.33	55.56	-29.23	AVG
0.4858	27.95	9.71	37.66	56.24	-18.58	QP
0.4858	14.44	9.71	24.15	46.24	-22.09	AVG
1.0820	25.9	9.81	35.71	56.00	-20.29	QP
1.0820	15.52	9.81	25.33	46.00	-20.67	AVG
1.6019	26.96	9.77	36.73	56.00	-19.27	QP
1.6019	16.67	9.77	26.44	46.00	-19.56	AVG
3.8380	25.96	9.96	35.92	56.00	-20.08	QP
3.8380	14.29	9.96	24.25	46.00	-21.75	AVG
18.8216	27.68	10.17	37.85	60.00	-22.15	QP
18.8216	11.28	10.17	21.45	50.00	-28.55	AVG

Remark:

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

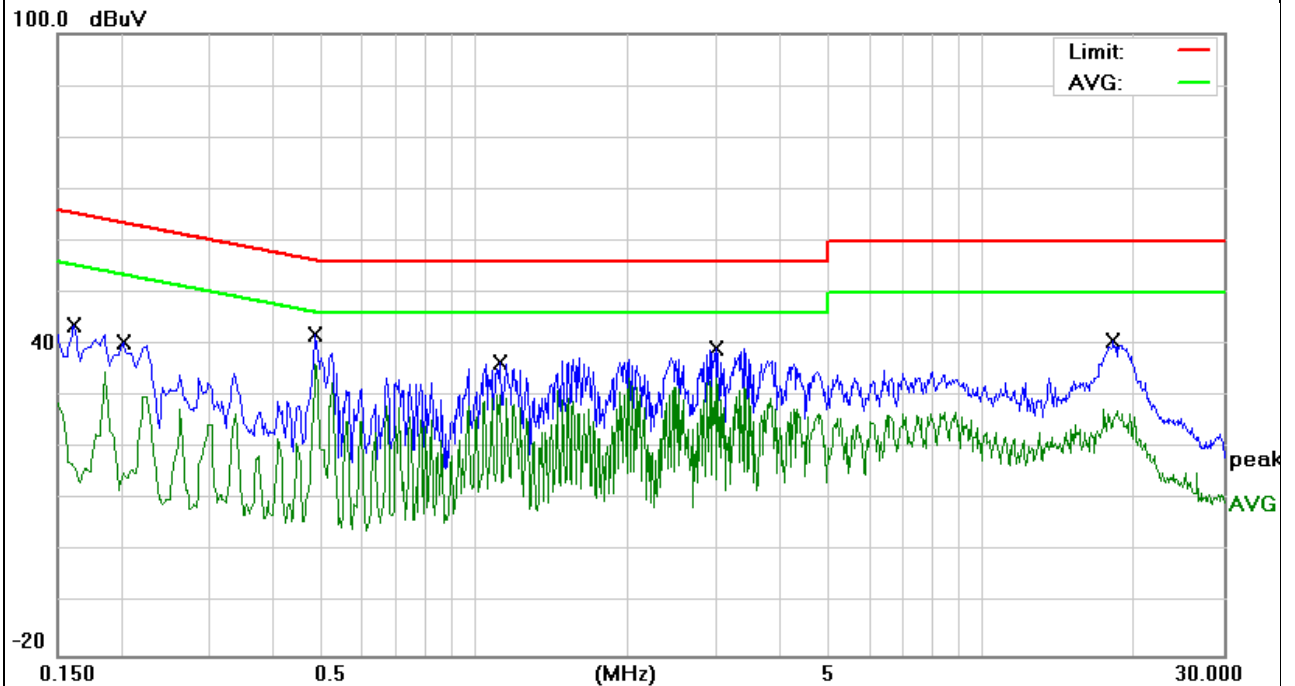


EUT:	Bluetooth Speaker	Model Name. :	A1
Temperature:	26 °C	Relative Humidity:	54%
Pressure:	1010hPa	Test Date:	2017-7-21
Test Mode:	Mode 1	Phase :	N
Test Voltage:	DC 5V from PC AC240V/60Hz		

Frequency (MHz)	Reading Level (dBμV)	Correct Factor (dB)	Measure-ment (dBμV)	Limits (dBμV)	Margin (dB)	Remark
0.162	34.1	9.80	43.9	65.36	-21.46	QP
0.162	13.56	9.80	23.36	55.36	-32.00	AVG
0.202	30.75	9.80	40.55	63.52	-22.97	QP
0.202	15.32	9.80	25.12	53.52	-28.40	AVG
0.4858	32.17	9.81	41.98	56.24	-14.26	QP
0.4858	14.34	9.81	24.15	46.24	-22.09	AVG
1.1180	26.62	9.82	36.44	56.00	-19.56	QP
1.1180	16.54	9.82	26.36	46.00	-19.64	AVG
2.982	29.41	9.85	39.26	56.00	-16.74	QP
2.982	12.40	9.85	22.25	46.00	-23.75	AVG
18.2015	30.59	10.18	40.77	60.00	-19.23	QP
18.2015	11.27	10.18	21.45	50.00	-28.55	AVG

## 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

FREQUENCY (MHz)	Class A (at 10m)	Class B (at 3m)
	dBuV/m	dBuV/m
30 ~ 88	39.0	40.0
88 ~ 216	43.5	43.5
216 ~ 960	46.5	46.0
Above 960	49.5	54.0

Notes:

- (1) The limit for radiated test was performed according to as following:  
FCC PART 15B /ICES-003.
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m)=20log Emission level (uV/m).

#### 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 test facility. 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 top of a variable-height antenna tower.
- c. The antenna is a broadband 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 to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.

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

##### Test Arrangement for Radiated Emissions above 1 GHz.

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at an accredited chamber room. 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 top of a variable-height antenna tower.
- c. The height of antenna can be varied from one meter to four meters, the height of adjustment depends on the EUT height and the antenna 3dB beamwidth both, to detect 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 to heights and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.

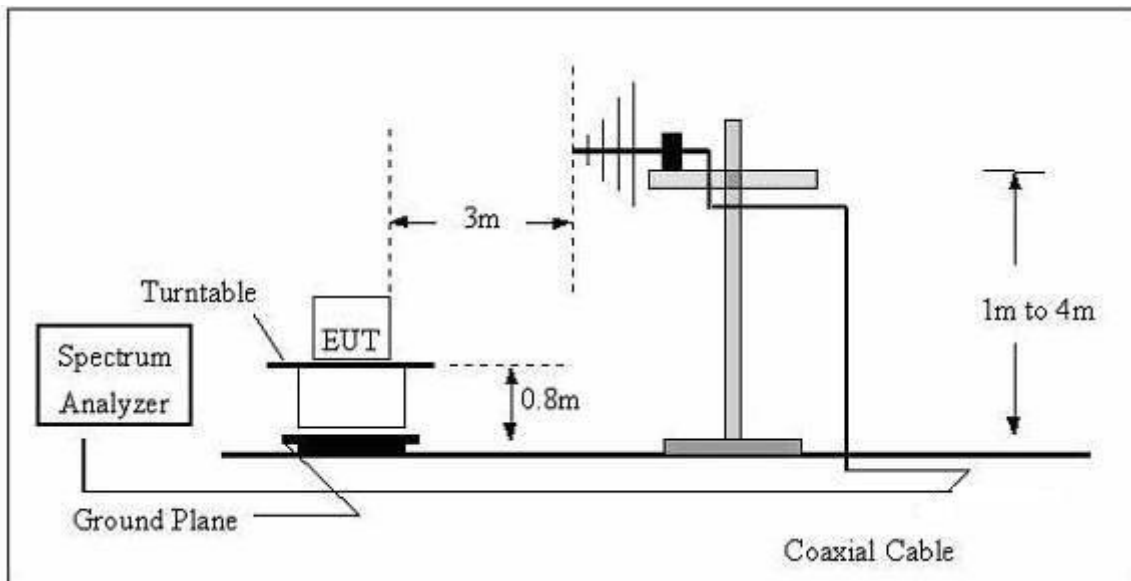
Note: For the hand-held device, the EUT should be measured for all 3 axes and only the worst

case is recorded in the report  
 During the radiated emission test, the Spectrum Analyzer was set with the following configurations:

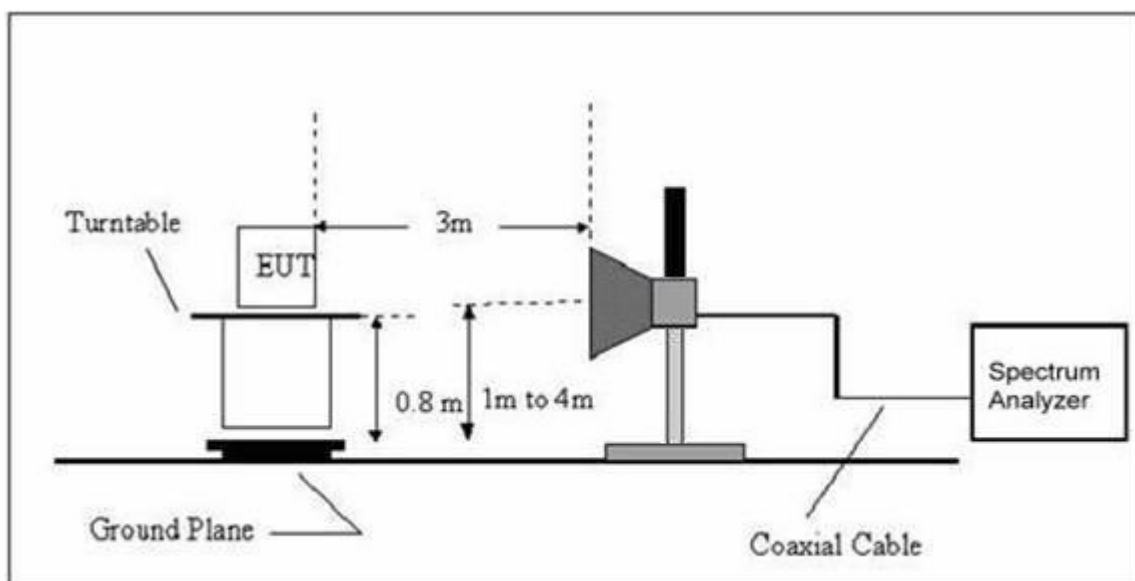
Frequency Band (MHz)	Function	Resolution bandwidth	Video Bandwidth
30 to 1000	QP	120 kHz	300 kHz
Above 1000	Peak	1 MHz	1 MHz
	Avg	1 MHz	10 Hz

**3.2.3 TEST SETUP**

For Radiated Emission 30~1000MHz



(B) Radiated Emission Test Set-Up Frequency Above 1GHz



### 3.2.4 TEST RESULTS

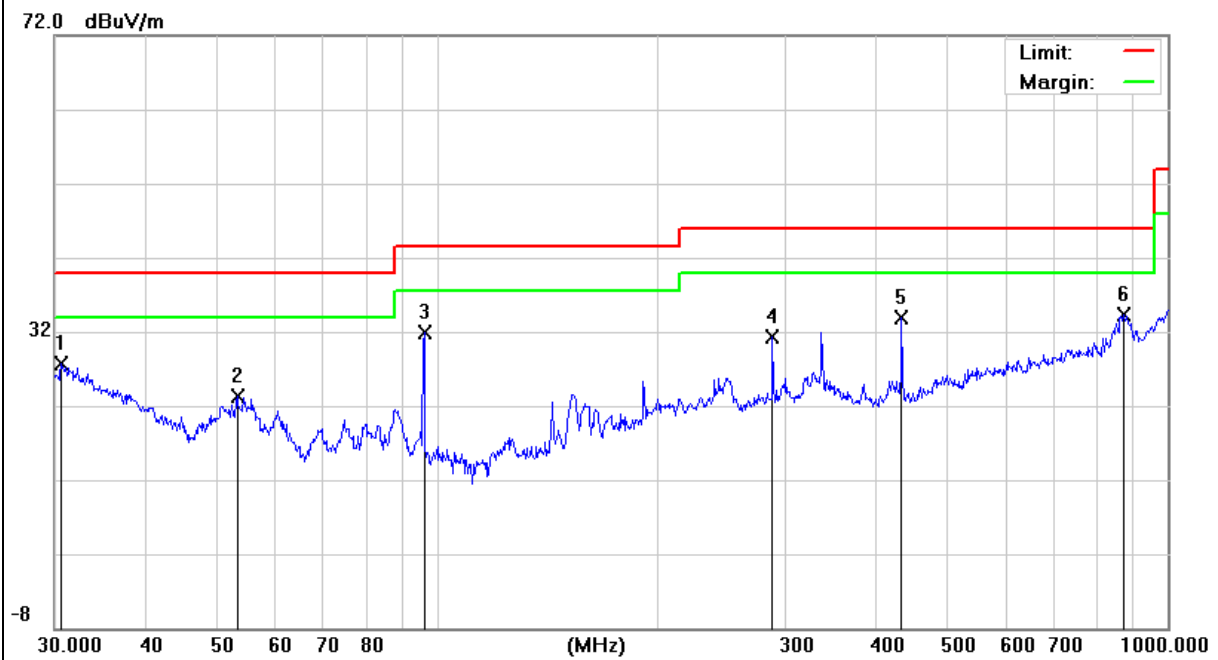
#### TEST RESULTS (30~1000 MHz)

EUT:	Bluetooth Speaker	Model Name:	A1
Temperature:	24 °C	Relative Humidity:	54%
Pressure:	1010 hPa	Test Date :	2017-7-21
Test Mode :	Mode 1	Polarization :	Horizontal
Test Power :	DC 5V from PC AC120V/60Hz		

Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
H	30.6372	6.71	20.93	27.64	40	-12.36	QP
H	53.3179	10.76	12.62	23.38	40	-16.62	QP
H	96.0986	19.99	11.98	31.97	43.5	-11.53	QP
H	287.9904	17.32	14.05	31.37	46	-14.63	QP
H	432.5457	17.44	16.47	33.91	46	-12.09	QP
H	869.1299	8.45	25.93	34.38	46	-11.62	QP

Remark:

Factor = Antenna Factor + Cable Loss - Amplifier.

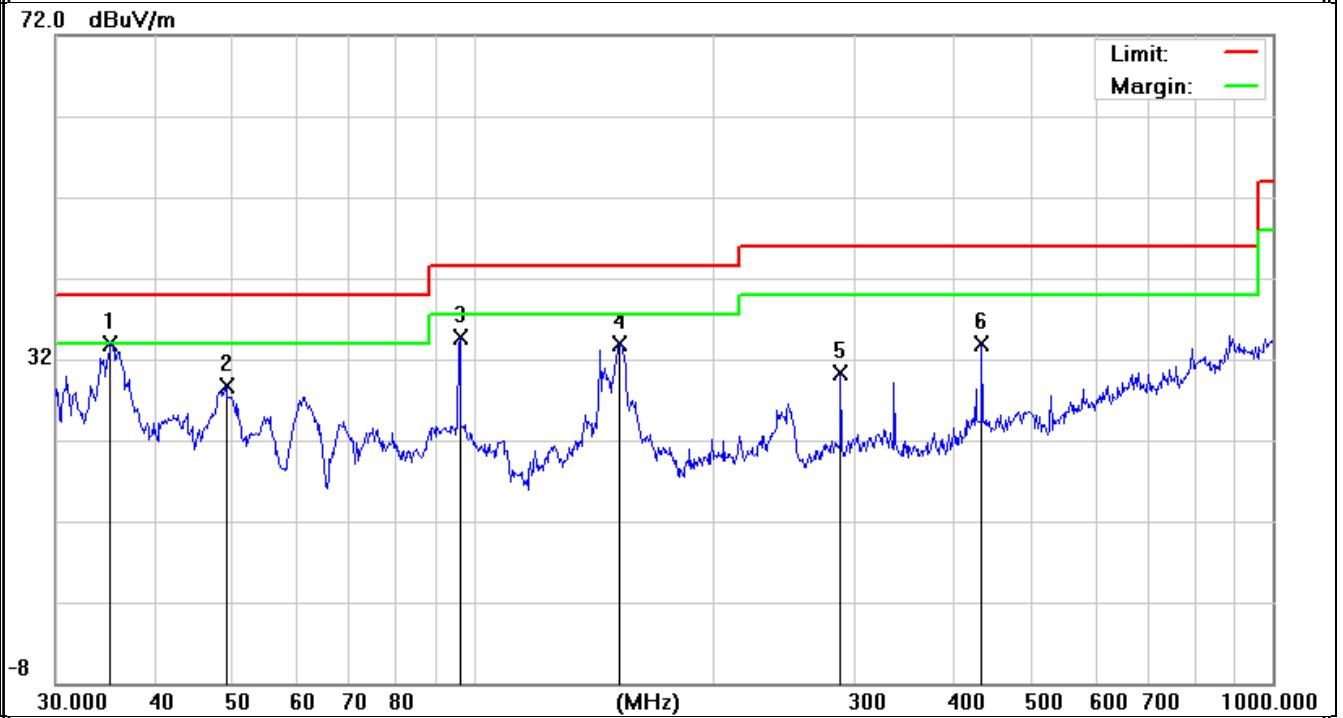


EUT:	Bluetooth Speaker	Model Name :	A1
Temperature:	24 °C	Relative Humidity:	54%
Pressure:	1010 hPa	Test Date :	2017-7-21
Test Mode :	Mode 1	Polarization :	Vertical
Test Power :	DC 5V from PCAC120V/60Hz		

Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
V	35.1278	15.12	18.86	33.98	40	-6.02	QP
V	49.0144	15.31	13.35	28.66	40	-11.34	QP
V	96.0986	22.72	11.98	34.7	43.5	-8.8	QP
V	152.1297	22.62	11.21	33.83	43.5	-9.67	QP
V	287.9904	16.25	14.05	30.3	46	-15.7	QP
V	432.5457	17.48	16.47	33.95	46	-12.05	QP

Remark:

Factor = Antenna Factor + Cable Loss - Amplifier.



## 3.2.5 TEST RESULTS(1000~6000MHz)

EUT:	Bluetooth Speaker	Model Name :	A1
Temperature:	24 °C	Relative Humidity:	54%
Pressure:	1010 hPa	Test Date :	2017-7-21
Test Mode :	Mode 1		
Test Power :	DC 5V from PC AC120V/60Hz		

All the modulation modes have been tested, and the worst result was report as below:

Polar (H/V)	Frequency	Reading	Correct	Result	Limit	Over Limit	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
V	1520.85	39.79	-8.49	31.3	74	-42.7	Pk
V	1520.85	28.81	-8.49	20.32	54	-33.68	AV
V	1783.79	42.88	-8.37	34.51	74	-39.49	Pk
V	1783.79	29.39	-8.37	21.02	54	-32.98	AV
V	2149.17	39.86	-5.97	33.89	74	-40.11	Pk
V	2149.17	28.32	-5.97	22.35	54	-31.65	AV
V	2722.62	38.08	-5.27	32.81	74	-41.19	Pk
V	2722.62	26.72	-5.27	21.45	54	-32.55	AV
V	3945.15	37.76	-0.55	37.21	74	-36.79	Pk
V	3945.15	23.9	-0.55	23.35	54	-30.65	AV
V	4736.26	36.94	4.43	41.37	74	-32.63	Pk
V	4736.26	20.09	4.43	24.52	54	-29.48	AV
H	1512.7	39.51	-8.42	31.09	74	-42.91	Pk
H	1512.7	28.62	-8.42	20.2	54	-33.8	AV
H	2118.58	38.83	-6.07	32.76	74	-41.24	Pk
H	2118.58	29.09	-6.07	23.02	54	-30.98	AV
H	2872.97	37.7	-5.22	32.48	74	-41.52	Pk
H	2872.97	26.74	-5.22	21.52	54	-32.48	AV
H	3233.62	38.84	-3.99	34.85	74	-39.15	Pk
H	3233.62	23.32	-3.99	19.33	54	-34.67	AV
H	3916.98	37.98	-0.58	37.4	74	-36.6	Pk
H	3916.98	25.6	-0.58	25.02	54	-28.98	AV
H	4710.87	35.8	4.4	40.2	74	-33.8	Pk
H	4710.87	19.05	4.4	23.45	54	-30.55	AV

Remark:

Absolute Level= ReadingLevel+ Factor, Margin= Absolute Level - Limit

Note: Only the worst results data points are reported in the report.