

# MEASUREMENT REPORT

## FCC Part 15 Subpart B / ICES-003

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**Applicant:** YEALINK (XIAMEN) NETWORK TECHNOLOGY CO.,LTD

**Address:** 309,3rd Floor, No.16, Yun Ding North Road, Huli District, Xiamen City, Fujian, P.R. China

**Application Type:** Certification

**Product:** DECT IP Phone

**Model No.:** W53H


**Brand Name:** YEALINK

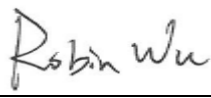
**FCC Rule Part(s):** FCC Part 15 Subpart B: 2017

**IC Rule Part(s):** ICES-003 Issue 6

**Test Procedure(s):** ANSI C63.4: 2014

**Test Date:** July 17 ~ August 07, 2018

Reviewed By :   
( Sunny Sun )

Approved By :   
( Robin Wu )



The test results relate only to the samples tested.

This equipment has been shown to be capable of compliance with the applicable technical standards as indicated in the measurement report and was tested in accordance with the measurement procedures specified in ANSI C63.4-2014. Test results reported herein relate only to the item(s) tested.

The test report shall not be reproduced except in full without the written approval of MRT Technology (Suzhou) Co., Ltd.

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### Revision History

Report No.	Version	Description	Issue Date	Note
1807RSU016-U2	Rev. 01	Initial Report	08-06-2018	Valid

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## §2.1033 General Information

<b>Applicant:</b>	YEALINK(XIAMEN)NETWORKTECHNOLOGYCO.,LTD
<b>Applicant Address:</b>	309,3rd Floor, No.16, Yun Ding North Road, Huli District, Xiamen City, Fujian, P.R. China
<b>Manufacturer:</b>	YEALINK(XIAMEN)NETWORKTECHNOLOGYCO.,LTD
<b>Manufacturer Address:</b>	309,3rd Floor, No.16, Yun Ding North Road, Huli District, Xiamen City, Fujian, P.R. China
<b>Test Site:</b>	MRT Technology (Suzhou) Co., Ltd
<b>Test Site Address:</b>	D8 Building, No.2 Tian'edang Rd., Wuzhong Economic Development Zone, Suzhou, China
<b>FCC Registration No.:</b>	893164
<b>IC Registration No.:</b>	11384A-1
<b>Test Device Serial No.:</b>	N/A <input type="checkbox"/> Production <input checked="" type="checkbox"/> Pre-Production <input type="checkbox"/> Engineering

### Test Facility / Accreditations

Measurements were performed at MRT Laboratory located in Tian'edang Rd., Suzhou, China.

- MRT facility is a FCC registered (MRT Reg. No. 893164) test facility with the site description report on file and has met all the requirements specified in ANSI C63.4-2014.
- MRT facility is an IC registered (MRT Reg. No. 11384A-1) test laboratory with the site description on file at Industry Canada.
- MRT facility is a VCCI registered (R-20025, G-20034, C-20020, T-20020) test laboratory with the site description on file at VCCI Council.
- MRT Lab is accredited to ISO 17025 by the American Association for Laboratory Accreditation (A2LA) under the American Association for Laboratory Accreditation Program (A2LA Cert. No. 3628.01) in EMC, Telecommunications, Radio and SAR testing.



## 1. INTRODUCTION

### 1.1. Scope

Measurement and determination of electromagnetic emissions (EMC) of radio frequency devices including intentional and/or unintentional radiators for compliance with the technical rules and regulations of the Federal Communications Commission and the Industry Canada Certification and Engineering Bureau.

### 1.2. MRT Test Location

The map below shows the location of the MRT LABORATORY, its proximity to the Taihu Lake. These measurement tests were conducted at the MRT Technology (Suzhou) Co., Ltd. Facility located at D8 Building, No.2 Tian'edang Rd., Wuzhong Economic Development Zone, Suzhou, China. The measurement facility compliant with the test site requirements specified in ANSI C63.4-2014.



## 2. PRODUCT INFORMATION

### 2.1. Equipment Description

Product Name:	DECT IP Phone
Model No.:	W53H
Brand Name:	YEALINK
Hardware:	61.0.0.11
Handset Firmware:	61.0.0.0
DECT Version	v6.0

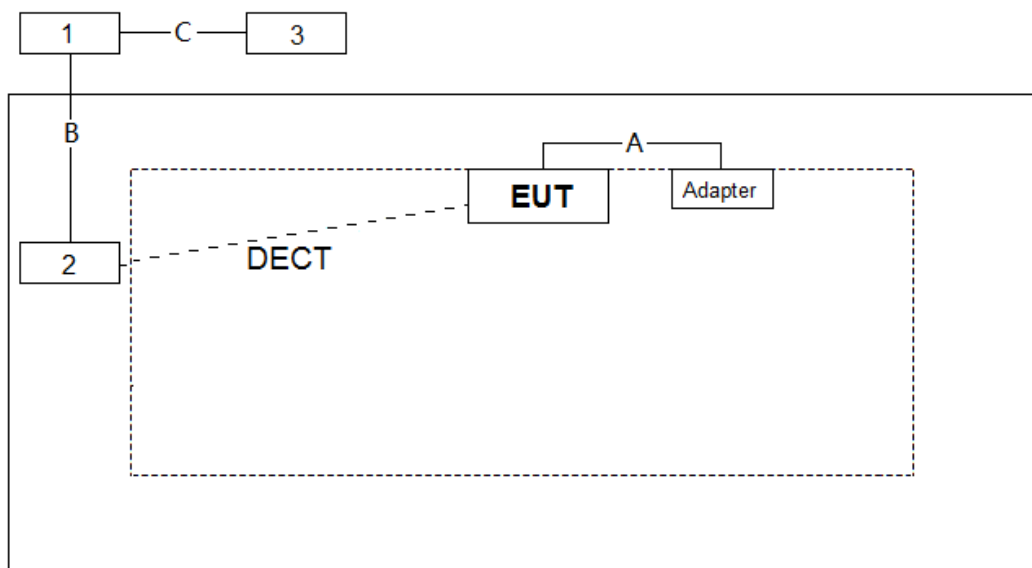
### 2.2. Test Mode

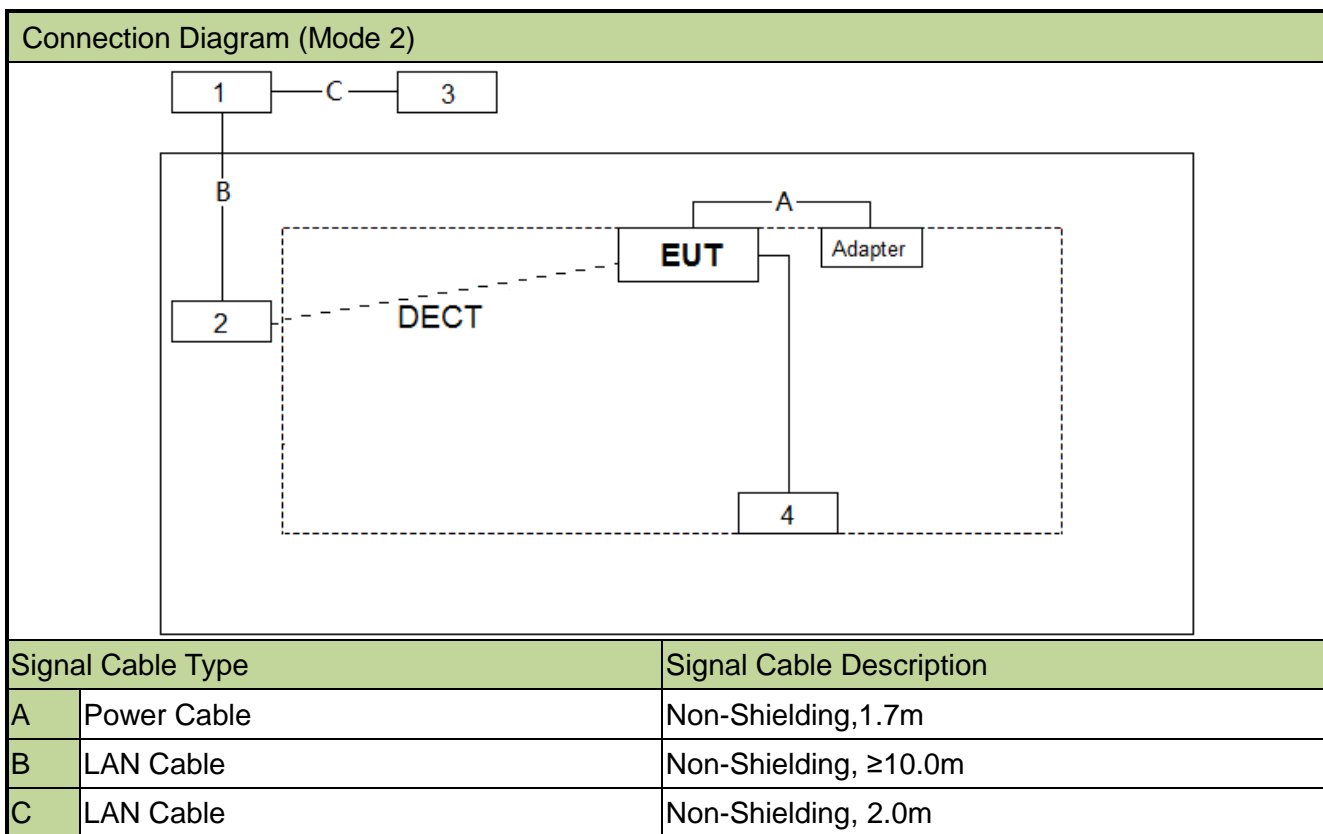
EMI Mode	Mode 1:Communicate with IP Phone by PP mode by speaker
	Mode 2:Communicate with IP Phone by PP mode by headphones

### 2.3. Configuration of Tested System

The device was tested per the guidance FCC Part 15 Subpart B: 2017, and ANSI C63.4: 2014 was used to reference the appropriate EUT setup for radiated spurious emissions testing and AC line conducted testing.

Connection Diagram (Mode 1)





## 2.4. Test System Details

The types for all equipments, plus descriptions of all cables used in the tested system (including inserted cards) are:

Product	Manufacturer	Model No.	Serial No.	Power Cord
1 Router	NETGEAR	R6300v2	04A1510EF839	Non-Shielded, 1.8m
2 DECT IP Base Station	Yealink	W60B	N/A	Non-Shielded, 1.8m
3 Gigabit SIP IP Phone	Yealink	ZIP-48G	N/A	Non-Shielded, 1.8m
4 Headset	Logitech	H111	N/A	N/A

## 2.5. Test Procedure

1	Setup the EUT and simulators as shown on above.
2	Making EUT communicate with IP Phone by DECT
3	Start to test

## 2.6. EMI Suppression Device(s)/Modifications

No EMI suppression device(s) were added and/or no modifications were made during testing.



### 3. DESCRIPTION OF TEST

#### 3.1. Evaluation Procedure

The measurement procedures described in the American National Standard for Methods of Measurement of Radio-Noise Emission from Low-Voltage Electrical Equipment in the Range of 9kHz to 18GHz (ANSI C63.4-2014) was used in the measurement.

**Deviation from measurement procedure.....None**

#### 3.2. AC Line Conducted Emissions

The line-conducted facility is located inside an 8'x4'x4' shielded enclosure. A 1m x 2m wooden table 80cm high is placed 40cm away from the vertical wall and 80cm away from the sidewall of the shielded room. Two 10kHz-30MHz, 50Ω/50uH Line-Impedance Stabilization Networks (LISNs) are bonded to the shielded room floor. Power to the LISNs is filtered by external high-current high-insertion loss power line filters. These filters attenuate ambient signal noise from entering the measurement lines. These filters are also bonded to the shielded enclosure.

The EUT is powered from one LISN and the support equipment is powered from the second LISN. If the EUT is a DC-powered device, power will be derived from the source power supply it normally will be powered from and this supply line(s) will be connected to the second LISN. All interconnecting cables more than 1 meter were shortened to a 1 meter length by non-inductive bundling (serpentine fashion) and draped over the back edge of the test table. All cables were at least 40cm above the horizontal reference ground-plane. Power cables for support equipment were routed down to the second LISN while ensuring that that cables were not draped over the second LISN.

Sufficient time for the EUT, support equipment, and test equipment was allowed in order for them to warm up to their normal operating condition. The RF output of the LISN was connected to the receiver and exploratory measurements were made to determine the frequencies producing the maximum emission from the EUT. The receiver was scanned from 150 kHz to 30 MHz. The detector function was set to peak mode for exploratory measurements while the bandwidth of the analyzer was set to 9 kHz. The EUT, support equipment, and interconnecting cables were arranged and manipulated to maximize each emission. Each emission was also maximized by varying: power lines, the mode of operation or resolution, clock or data exchange speed, scrolling H pattern to the EUT and/or support equipment whichever determined the worst-case emission. Once the worst case emissions have been identified, the one EUT cable configuration/arrangement and mode of operation that produced these emissions are used for final measurements on the same test site.



### 3.3. Radiated Emissions

The radiated test facilities consisted of an indoor 3 meter semi-anechoic chamber used for final measurements and exploratory measurements, when necessary. The measurement area is contained within the semi-anechoic chamber which is shielded from any ambient interference. For measurements above 1GHz absorbers are arranged on the floor between the turn table and the antenna mast in such a way so as to maximize the reduction of reflections. For measurements below 1GHz, the absorbers are removed. An MF Model 210SS turntable is used for radiated measurement. It is a continuously rotatable, remote controlled, metallic turntable and 2 meters (6.56 ft.) in diameter. The turn table is flush with the raised floor of the chamber in order to maintain its function as a ground plane. An 80cm high PVC support structure is placed on top of the turntable.

For all measurements, the spectrum was scanned through all EUT azimuths and from 1 to 4 meter receive antenna height using a broadband antenna from 30 MHz up to the upper frequency shown in 15.33(b)(1) depending on the highest frequency generated or used in the device or on which the device operates or tunes. For frequencies above 1GHz, linearly polarized double ridge horn antennas were used. For frequencies below 30 MHz, a calibrated loop antenna was used. When exploratory measurements were necessary, they were performed at 1 meter test distance inside the semi-anechoic chamber using broadband antennas, broadband amplifiers, and spectrum analyzers to determine the frequencies and modes producing the maximum emissions. Sufficient time for the EUT, support equipment, and test equipment was allowed in order for them to warm up to their normal operating condition. The test set-up was placed on top of the 0.8 meter high, 1 x 1.5 meter table. The EUT, support equipment, and interconnecting cables were arranged and manipulated to maximize each emission. Appropriate precaution was taken to ensure that all emissions from the EUT were maximized and investigated. The system configuration, mode of operation, if applicable, turntable azimuth, and receive antenna height was noted for each frequency found.

Final measurements were made in the semi-anechoic chamber using calibrated, linearly polarized broadband and horn antennas. The test setup was configured to the setup that produced the worst case emissions. The spectrum analyzer was set to investigate all frequencies required for testing to compare the highest radiated disturbances with respect to the specified limits. The turntable containing the EUT was rotated through 360 degrees and the height of the receive antenna was varied 1 to 4 meters and stopped at the azimuth and height producing the maximum emission. Each emission was maximized by changing the orientation of the EUT through three orthogonal planes and changing the polarity of the receive antenna, whichever produced the worst-case emissions. According to 3dB beam-width of horn antenna, the horn antenna should be always directed to the EUT when rising height.

#### 4. TEST EQUIPMENT CALIBRATION DATE

##### Conducted Emissions - SR2

Instrument	Manufacturer	Type No.	Asset No.	Cali. Interval	Cali. Due Date
EMI Test Receiver	R&S	ESR3	MRTSUE06185	1 year	2018/08/18
Two-Line V-Network	R&S	ENV216	MRTSUE06002	1 year	2019/06/15
Two-Line V-Network	R&S	ENV216	MRTSUE06003	1 year	2019/06/15
Temperature/Humidity Meter	testo	608-H1	MRTSUE06404	1 year	2018/08/14
Shielding Anechoic Chamber	Mikebang	Chamber-SR2	MRTSUE06214	N/A	N/A

##### Radiated Emissions - AC2

Instrument	Manufacturer	Type No.	Asset No.	Cali. Interval	Cali. Due Date
MXE EMI Receiver	Agilent	N9038A	MRTSUE06125	1 year	2018/08/18
Broadband Coaxial Preamplifier	Schwarzbeck	BBV 9718	MRTSUE06176	1 year	2018/11/17
Bilog Period Antenna	Schwarzbeck	VULB 9162	MRTSUE06022	1 year	2018/10/21
Broad Band Horn Antenna	Schwarzbeck	BBHA 9120D	MRTSUE06171	1 year	2018/11/18
Broad Band Horn Antenna	Schwarzbeck	BBHA 9170	MRTSUE06024	1 year	2018/12/14
Digital Thermometer & Hygrometer	Minggao	ETH529	MRTSUE06170	1 year	2018/12/12
Anechoic Chamber	RIKEN	Chamber-AC2	MRTSUE06213	1 year	2019/05/02

Software	Version	Function
e3	V8.3.5	EMI Test Software

## 5. MEASUREMENT UNCERTAINTY

Where relevant, the following test uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of  $k = 2$ .

AC Conducted Emission Measurement - SR2	
Measuring Uncertainty for a Level of Confidence of 95% ( $U=2U_c(y)$ ):	
150kHz~30MHz: 2.42dB	
Radiated Emission Measurement - AC2	
Measuring Uncertainty for a Level of Confidence of 95% ( $U=2U_c(y)$ ):	
Horizontal:	30MHz~300MHz: $\pm 4.07$ dB
	300MHz~1GHz: $\pm 3.63$ dB
	1GHz~18GHz: $\pm 4.16$ dB
Vertical:	30MHz~300MHz: $\pm 4.18$ dB
	300MHz~1GHz: $\pm 3.60$ dB
	1GHz~18GHz: $\pm 4.76$ dB

## 6. TEST RESULT

### 6.1. Summary

**Product Name:** DECT IP Phone

**Applicant:** YEALINK

FCC Part Section(s)	IC Part Section(s)	Test Description	Test Result
15.107	ICES-003 Issue 6 - 6.1	Conducted Emissions	Pass
15.109	ICES-003 Issue 6 - 6.2	Radiated Emissions	Pass

## 6.2. Conducted Emission Measurement

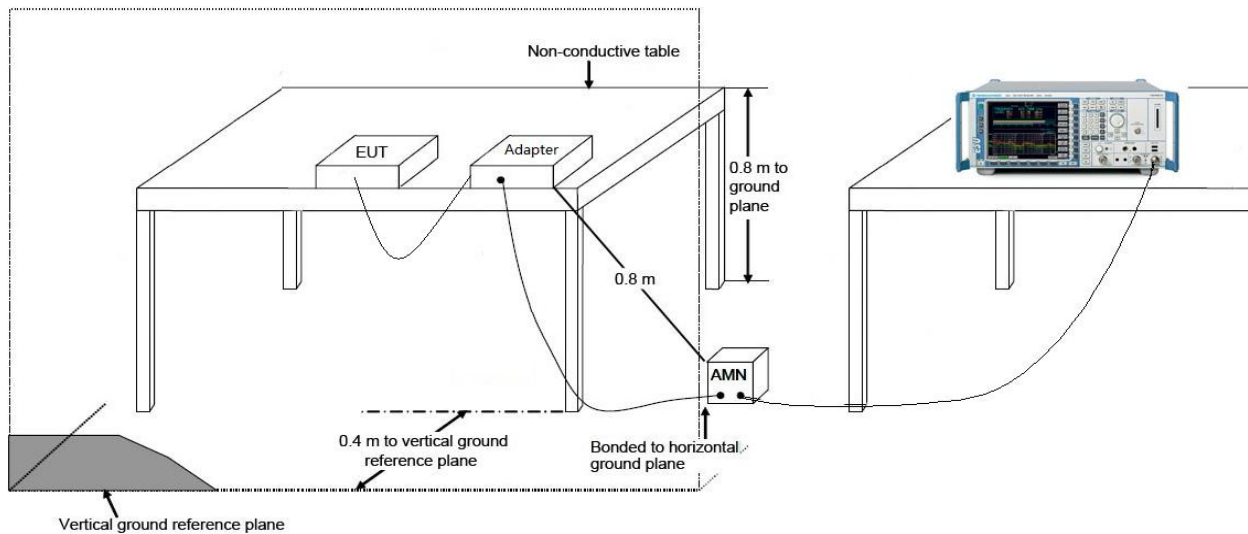
### 6.2.1. Test Limit

FCC Part 15.107 Limits		
Frequency (MHz)	QP (dB $\mu$ V)	AV (dB $\mu$ V)
0.15 to 0.50	66 to 56	56 to 46
0.50 to 5	56	46
5 to 30	60	50

Note 1: The lower limit shall apply at the transition frequencies.

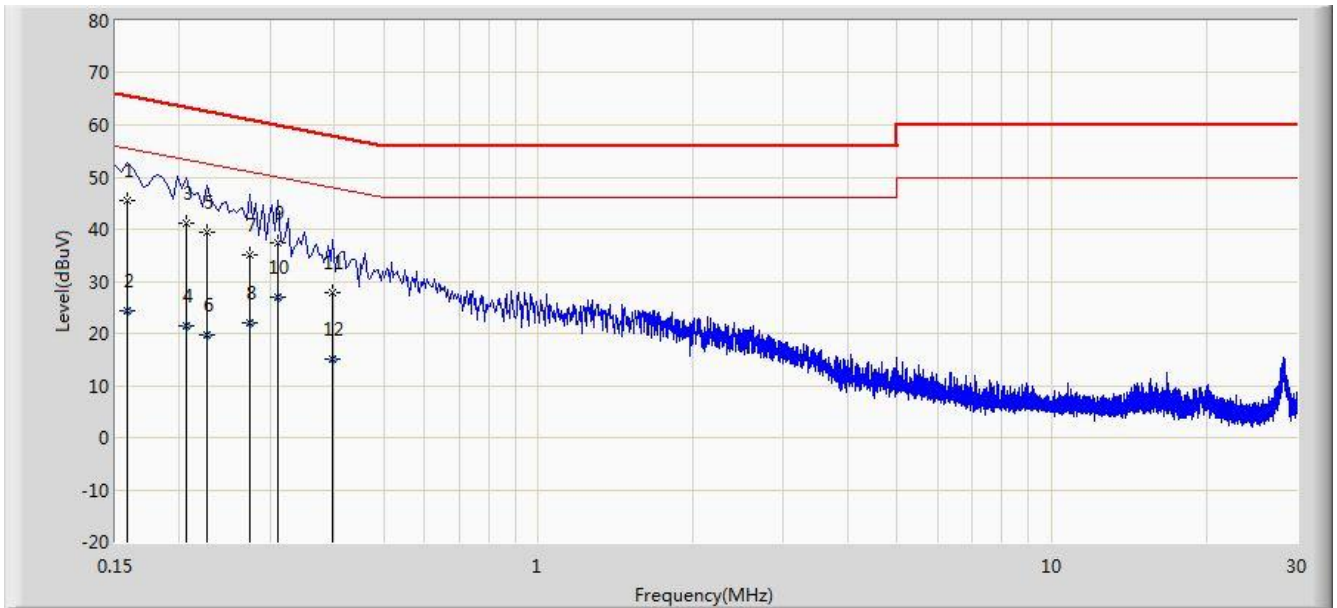
Note 2: The limit decreases linearly with the logarithm of the frequency in the range 0.15MHz to 0.50MHz.

### 6.2.2. Test Setup



### 6.2.3. Test Result of Conducted Emissions

Site: SR2	Time: 2018/07/24 - 02:00
Limit: FCC_Part15.107_Class B	Engineer: Cat Hu
Probe: ENV216_101683_Filter On	Polarity: Line
EUT: DECT IP Phone	Power: AC 120V/60Hz
Test Mode 1	

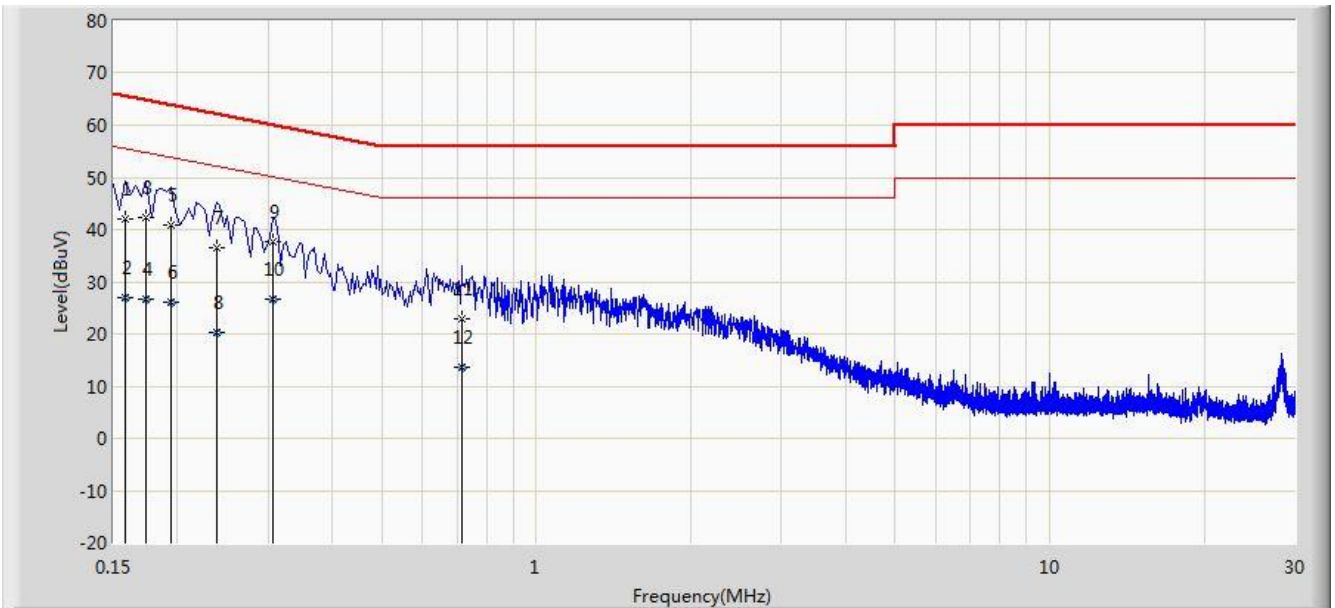


No	Flag	Mark	Frequency (MHz)	Measure Level (dBμV)	Reading Level (dBμV)	Over Limit (dB)	Limit (dBμV)	Factor (dB)	Type
1		*	0.158	45.616	35.305	-19.952	65.568	10.311	QP
2			0.158	24.225	13.914	-31.344	55.568	10.311	AV
3			0.206	41.030	31.049	-22.335	63.365	9.981	QP
4			0.206	21.577	11.596	-31.788	53.365	9.981	AV
5			0.226	39.420	29.475	-23.176	62.595	9.944	QP
6			0.226	19.819	9.875	-32.777	52.595	9.944	AV
7			0.274	34.947	24.963	-26.049	60.996	9.983	QP
8			0.274	21.979	11.996	-29.017	50.996	9.983	AV
9			0.310	37.527	27.515	-22.443	59.970	10.012	QP
10			0.310	27.053	17.041	-22.917	49.970	10.012	AV
11			0.398	27.971	17.888	-29.924	57.895	10.084	QP
12			0.398	15.213	5.130	-32.682	47.895	10.084	AV

Note: Measure Level (dBμV) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + LISN Factor (dB)

Site: SR2	Time: 2018/07/24 - 02:05
Limit: FCC_Part15.107_Class B	Engineer: Cat Hu
Probe: ENV216_101683_Filter On	Polarity: Neutral
EUT: DECT IP Phone	Power: AC 120V/60Hz
Test Mode 1	



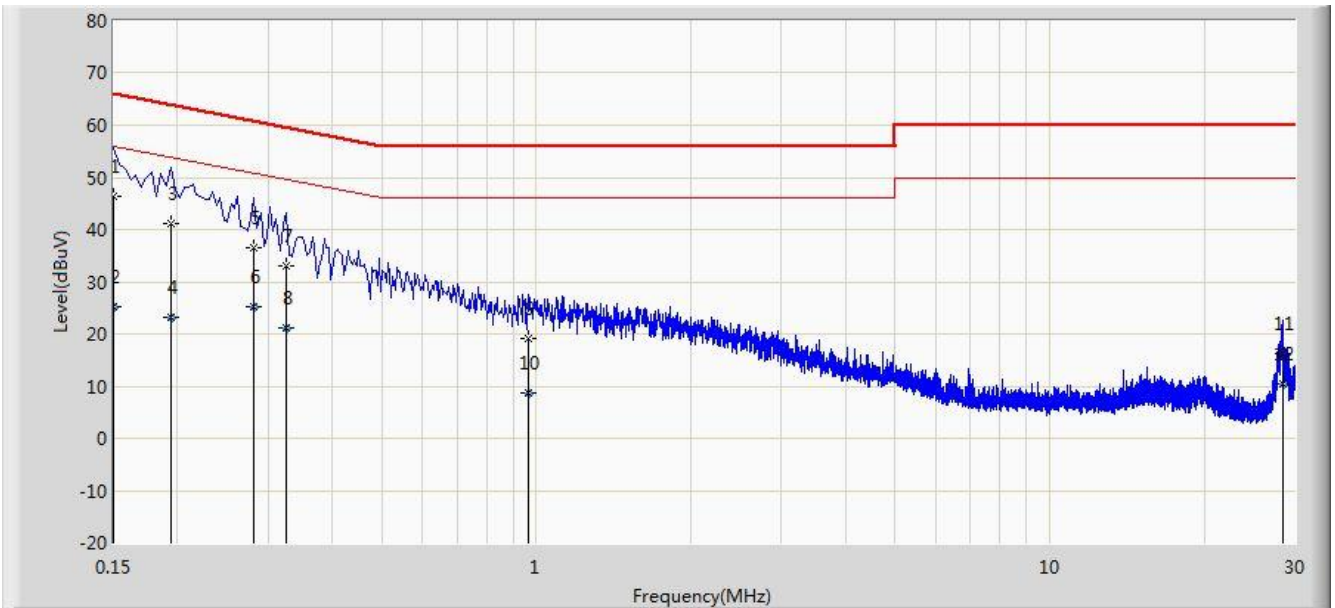
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV)	Factor (dB)	Type
1			0.158	42.105	31.815	-23.463	65.568	10.290	QP
2			0.158	27.097	16.807	-28.472	55.568	10.290	AV
3			0.174	42.179	32.123	-22.588	64.767	10.057	QP
4			0.174	26.580	16.524	-28.187	54.767	10.057	AV
5			0.194	40.824	30.803	-23.039	63.864	10.021	QP
6			0.194	26.032	16.011	-27.832	53.864	10.021	AV
7			0.238	36.606	26.614	-25.560	62.166	9.992	QP
8			0.238	20.182	10.190	-31.984	52.166	9.992	AV
9		*	0.306	37.560	27.517	-22.519	60.078	10.042	QP
10			0.306	26.675	16.632	-23.404	50.078	10.042	AV
11			0.714	22.960	12.893	-33.040	56.000	10.067	QP
12			0.714	13.675	3.608	-32.325	46.000	10.067	AV

Note: Measure Level (dBμV) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + LISN Factor (dB)



Site: SR2	Time: 2018/07/24 - 01:52
Limit: FCC_Part15.107_Class B	Engineer: Cat Hu
Probe: ENV216_101683_Filter On	Polarity: Line
EUT: DECT IP Phone	Power: AC 120V/60Hz
Test Mode 2	

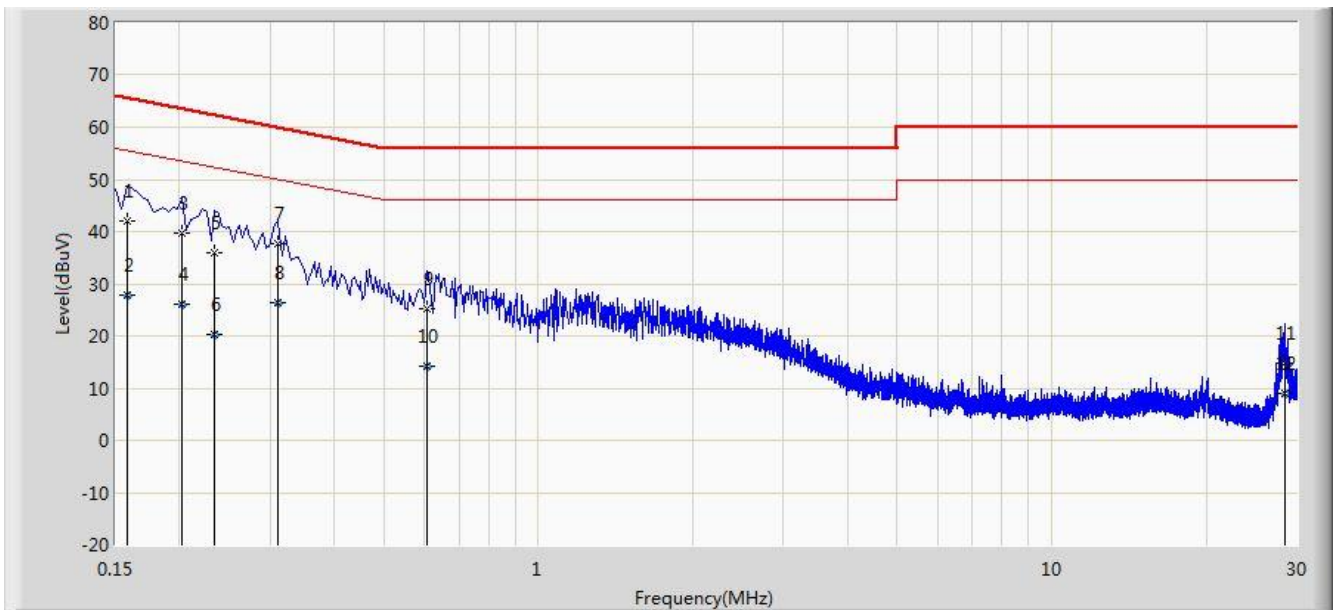


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV)	Factor (dB)	Type
1		*	0.150	46.433	35.265	-19.567	66.000	11.168	QP
2			0.150	25.091	13.923	-30.909	56.000	11.168	AV
3			0.194	41.285	31.268	-22.579	63.864	10.017	QP
4			0.194	23.046	13.029	-30.818	53.864	10.017	AV
5			0.282	36.479	26.489	-24.278	60.757	9.990	QP
6			0.282	25.276	15.286	-25.481	50.757	9.990	AV
7			0.326	33.067	23.043	-26.485	59.552	10.025	QP
8			0.326	21.124	11.099	-28.429	49.552	10.025	AV
9			0.962	19.130	9.202	-36.870	56.000	9.928	QP
10			0.962	8.692	-1.236	-37.308	46.000	9.928	AV
11			28.438	16.132	5.871	-43.868	60.000	10.262	QP
12			28.438	10.428	0.166	-39.572	50.000	10.262	AV

Note: Measure Level (dBμV) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + LISN Factor (dB)

Site: SR2	Time: 2018/07/24 - 01:56
Limit: FCC_Part15.107_Class B	Engineer: Cat Hu
Probe: ENV216_101683_Filter On	Polarity: Neutral
EUT: DECT IP Phone	Power: AC 120V/60Hz
Test Mode 2	



No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV)	Factor (dB)	Type
1			0.158	41.902	31.591	-23.666	65.568	10.311	QP
2			0.158	27.911	17.600	-27.657	55.568	10.311	AV
3			0.202	39.600	29.592	-23.928	63.528	10.008	QP
4			0.202	26.058	16.051	-27.469	53.528	10.008	AV
5			0.234	35.840	25.851	-26.466	62.307	9.989	QP
6			0.234	20.232	10.243	-32.075	52.307	9.989	AV
7		*	0.310	37.569	27.524	-22.402	59.970	10.045	QP
8			0.310	26.361	16.316	-23.609	49.970	10.045	AV
9			0.606	25.155	15.027	-30.845	56.000	10.128	QP
10			0.606	14.205	4.077	-31.795	46.000	10.128	AV
11			28.378	14.893	4.489	-45.107	60.000	10.404	QP
12			28.378	9.029	-1.375	-40.971	50.000	10.404	AV

Note: Measure Level (dBμV) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + LISN Factor (dB)

### 6.3. Radiated Emission Measurement

#### 6.3.1. Test Limit

FCC Part 15.109 Limits / ICES-003 Issue 6 - 6.2 Limit		
Frequency (MHz)	Distance (m)	Level (dB $\mu$ V/m)
30 - 88	3	40
88 - 216	3	43.5
216 - 960	3	46
Above 960	3	54

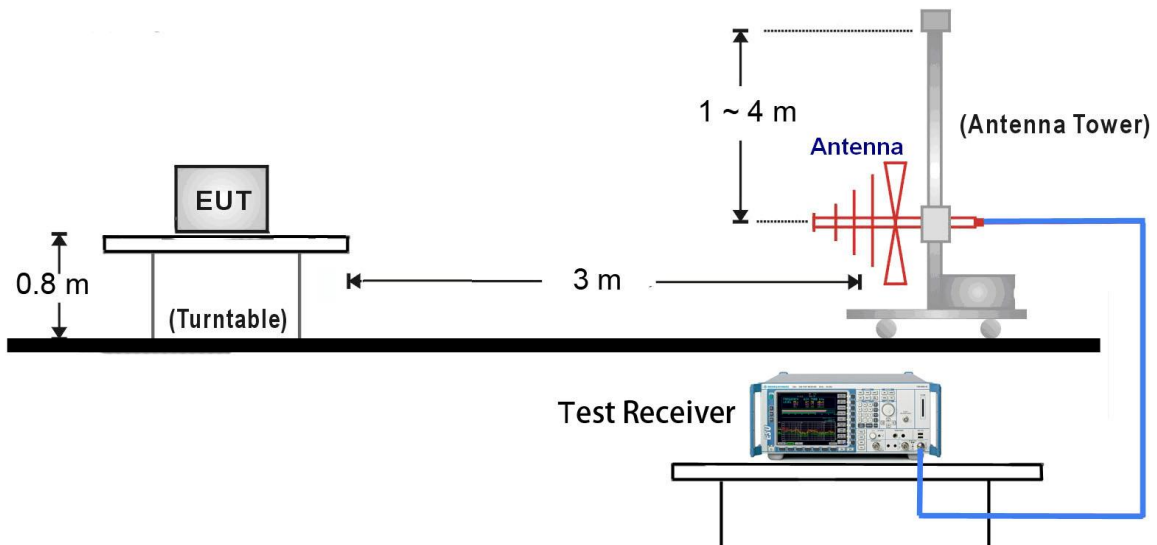
Note 1: The lower limit shall apply at the transition frequency.

Note 2: Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.

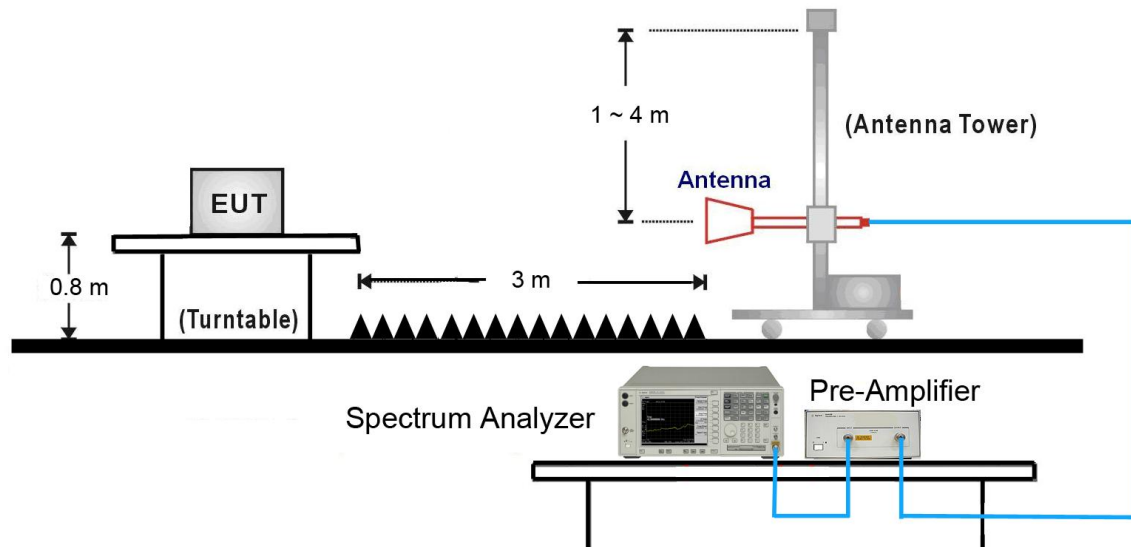
Note 3: E field strength (dB $\mu$ V/m) = 20 log E field strength (uV/m)

#### 6.3.2. Test Setup

30MHz ~ 1GHz Test Setup:

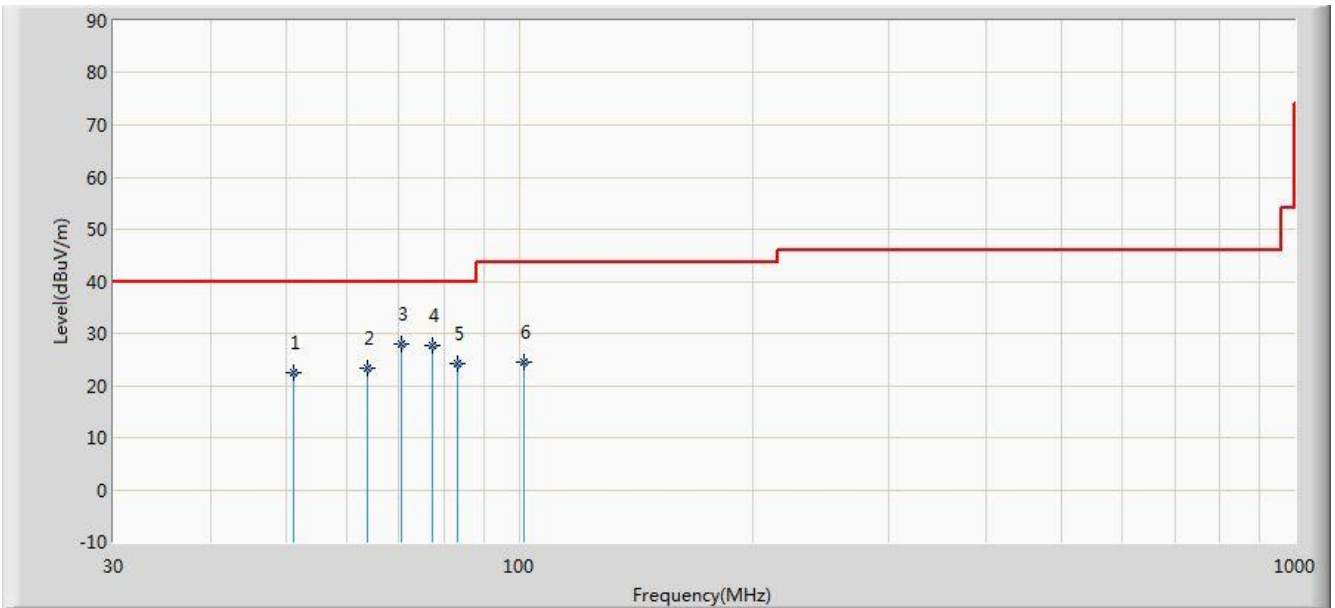


### 1GHz ~18GHz Test Setup:



### 6.3.3.Test Result of Radiated Emissions

Site: AC2	Time: 2018/07/24 - 11:03
Limit: FCC_Part15.109_RE(3m)_Class B	Engineer: Messiah Li
Probe: VULB9162_0.03-8GHz	Polarity: Horizontal
EUT: DECT IP Phone	Power: AC 120V/60Hz
Test Mode 1	

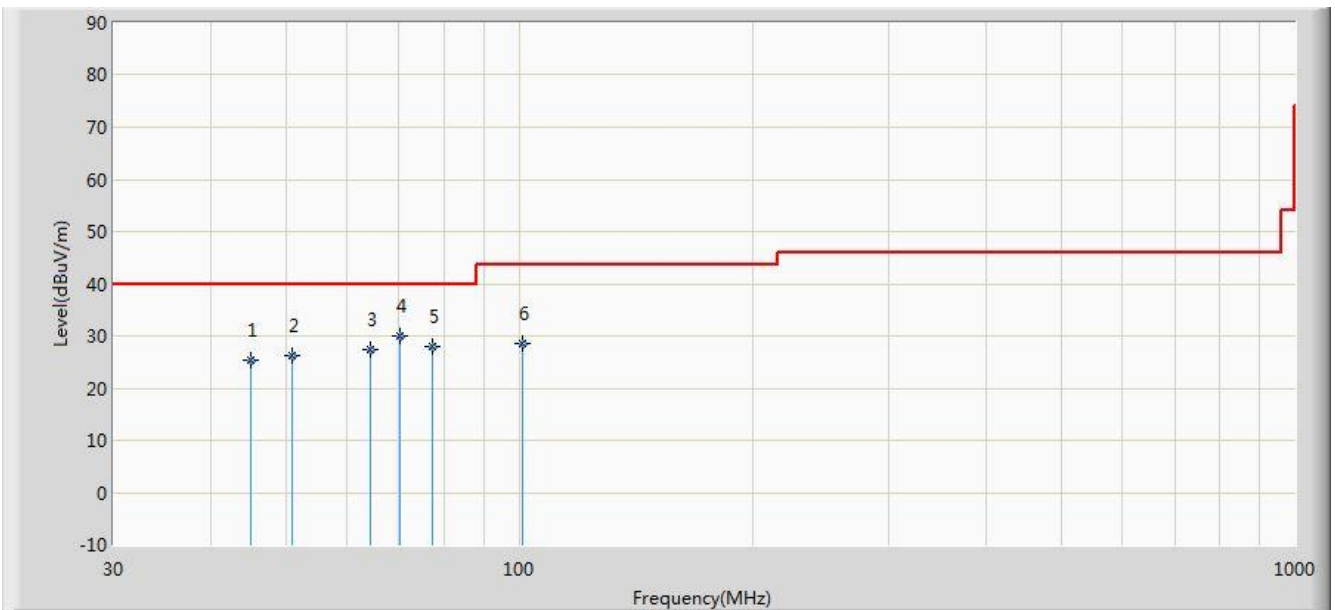


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			51.263	22.380	7.350	-17.620	40.000	15.029	QP
2			63.891	23.306	10.263	-16.694	40.000	13.043	QP
3		*	70.412	27.899	16.956	-12.101	40.000	10.943	QP
4			77.211	27.609	18.236	-12.391	40.000	9.374	QP
5			83.145	24.236	14.256	-15.764	40.000	9.980	QP
6			101.369	24.578	11.249	-18.922	43.500	13.329	QP

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m).

Site: AC2	Time: 2018/07/24 - 11:03
Limit: FCC_Part15.109_RE(3m)_Class B	Engineer: Messiah Li
Probe: VULB9162_0.03-8GHz	Polarity: Vertical
EUT: DECT IP Phone	Power: AC 120V/60Hz
Test Mode 1	

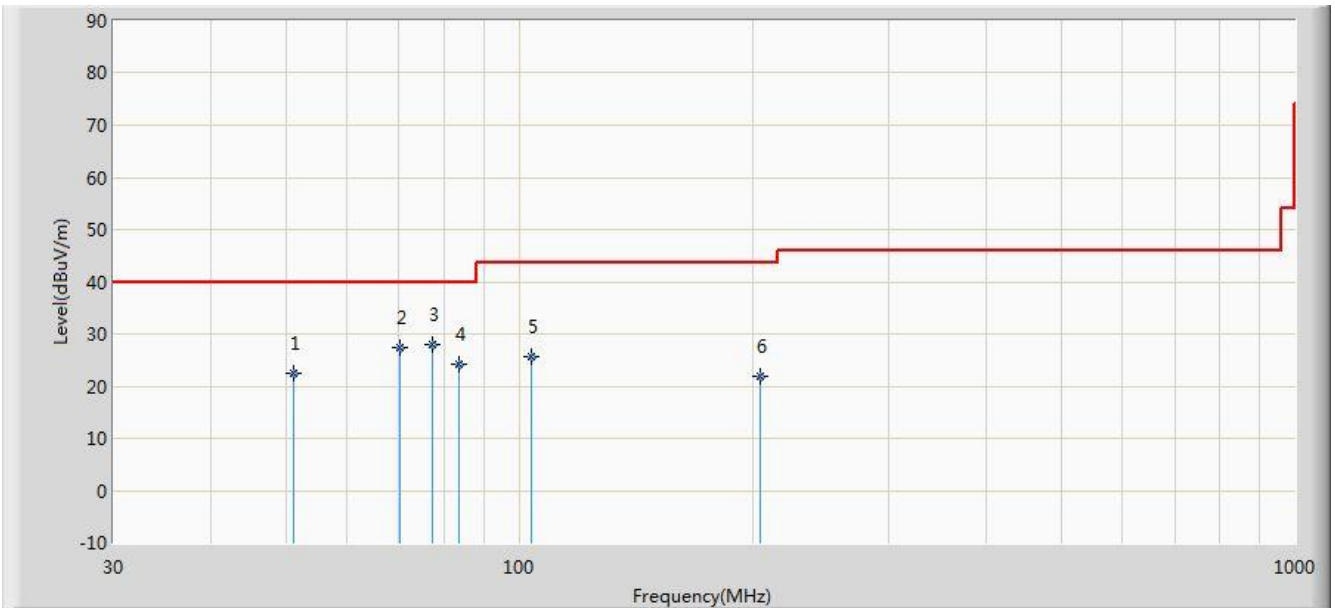


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			45.025	25.291	10.356	-14.709	40.000	14.935	QP
2			50.946	26.287	11.253	-13.713	40.000	15.034	QP
3			64.256	27.368	14.446	-12.632	40.000	12.923	QP
4		*	70.253	30.095	19.116	-9.905	40.000	10.979	QP
5			77.213	27.929	18.556	-12.071	40.000	9.373	QP
6			100.986	28.503	15.223	-14.997	43.500	13.280	QP

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m).

Site: AC2	Time: 2018/07/24 - 11:03
Limit: FCC_Part15.109_RE(3m)_Class B	Engineer: Messiah Li
Probe: VULB9162_0.03-8GHz	Polarity: Horizontal
EUT: DECT IP Phone	Power: AC 120V/60Hz
Test Mode 2	



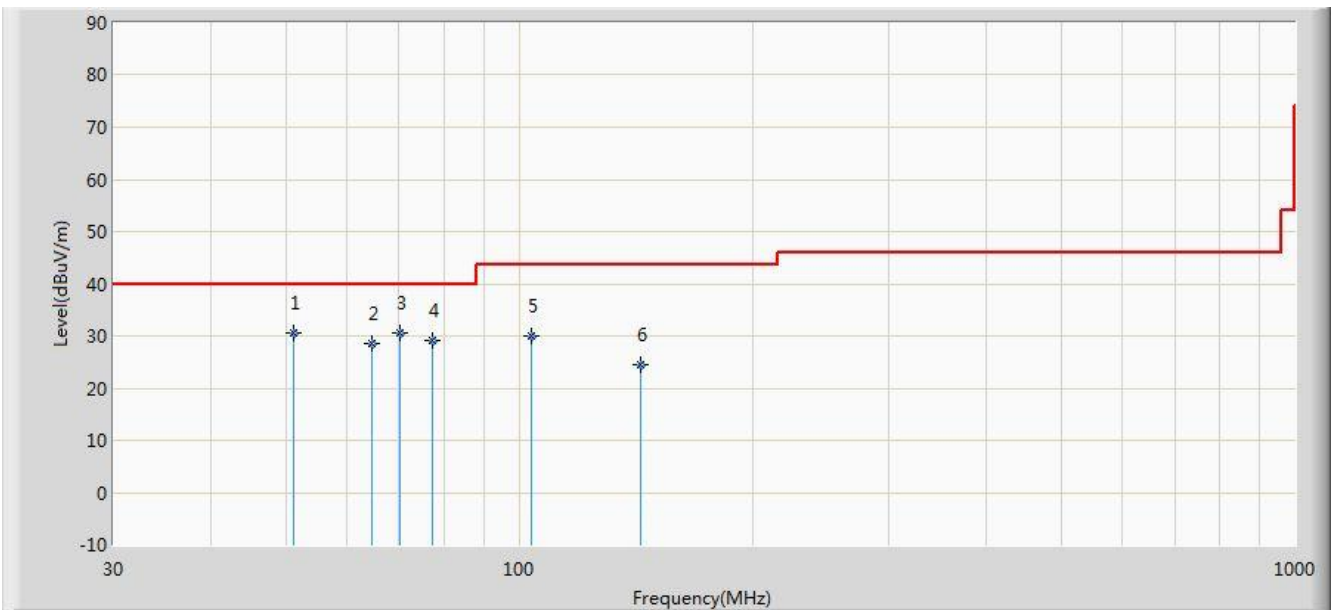
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			51.211	22.365	7.334	-17.635	40.000	15.031	QP
2			70.246	27.414	16.433	-12.586	40.000	10.981	QP
3		*	77.158	27.832	18.446	-12.168	40.000	9.385	QP
4			83.499	24.262	14.233	-15.738	40.000	10.029	QP
5			103.596	25.765	12.447	-17.735	43.500	13.319	QP
6			204.366	21.818	9.226	-21.682	43.500	12.592	QP

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m).



Site: AC2	Time: 2018/07/24 - 11:03
Limit: FCC_Part15.109_RE(3m)_Class B	Engineer: Messiah Li
Probe: VULB9162_0.03-8GHz	Polarity: Vertical
EUT: DECT IP Phone	Power: AC 120V/60Hz
Test Mode 2	

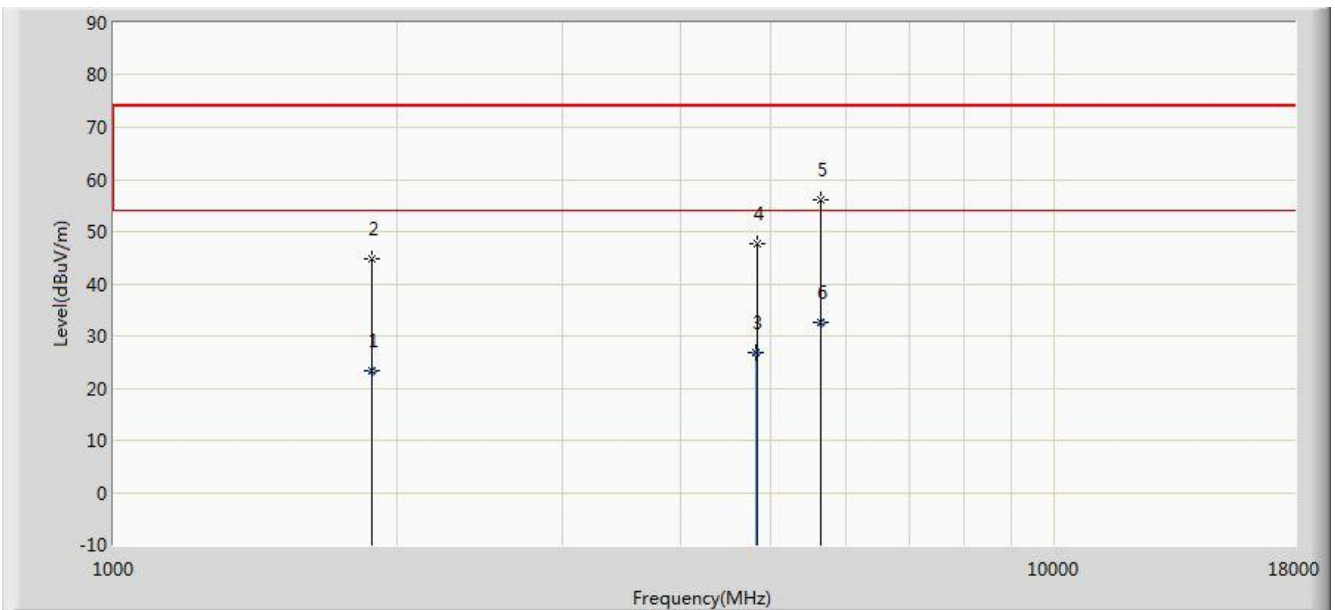


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	51.233	30.474	15.444	-9.526	40.000	15.030	QP
2			64.554	28.600	15.776	-11.400	40.000	12.824	QP
3			70.156	30.468	19.467	-9.532	40.000	11.001	QP
4			77.198	29.044	19.668	-10.956	40.000	9.377	QP
5			103.562	29.867	16.548	-13.633	43.500	13.319	QP
6			143.550	24.540	14.889	-18.960	43.500	9.651	QP

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m).

Site: AC2	Time: 2018/07/24 - 11:03
Limit: FCC_Part15.109_RE(3m)_Class B	Engineer: Messiah Li
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: DECT IP Phone	Power: AC 120V/60Hz
Test Mode 1	

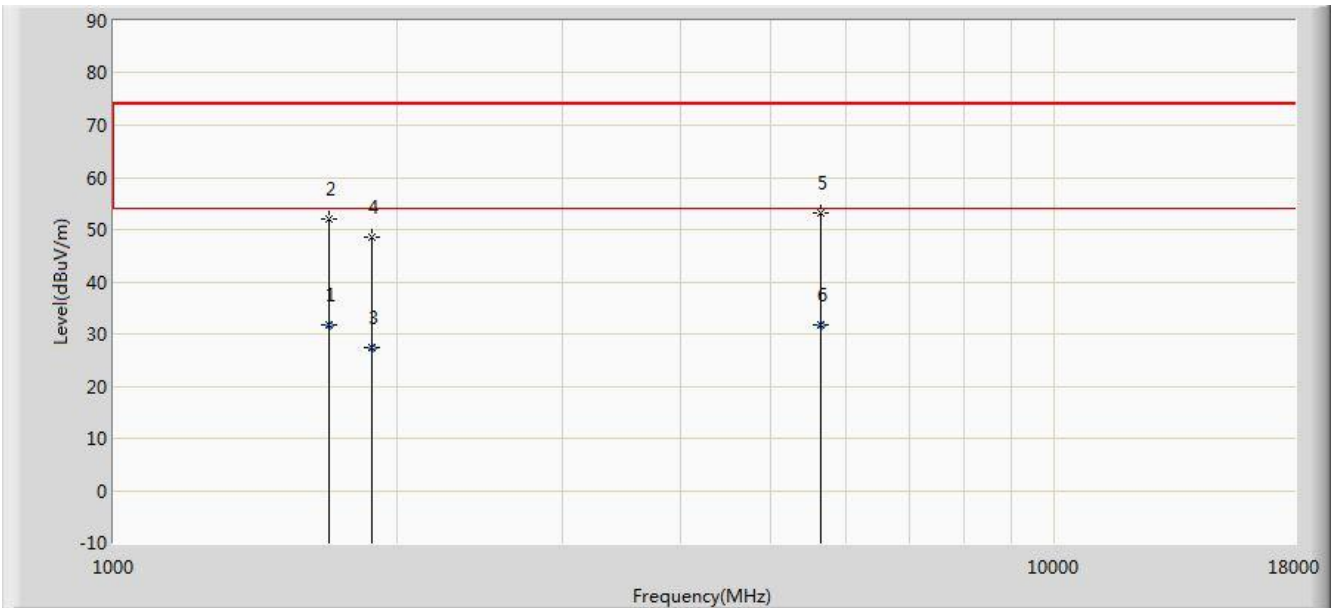


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			1881.356	23.422	26.157	-30.578	54.000	-2.734	AV
2			1884.000	44.847	47.567	-29.153	74.000	-2.720	PK
3			4822.168	26.899	21.336	-27.101	54.000	5.562	AV
4			4825.000	47.658	42.087	-26.342	74.000	5.571	PK
5		*	5649.500	56.044	49.063	-17.956	74.000	6.981	PK
6			5651.540	32.643	25.650	-21.357	54.000	6.993	AV

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB).

Site: AC2	Time: 2018/07/24 - 11:03
Limit: FCC_Part15.109_RE(3m)_Class B	Engineer: Messiah Li
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: DECT IP Phone	Power: AC 120V/60Hz
Test Mode 1	

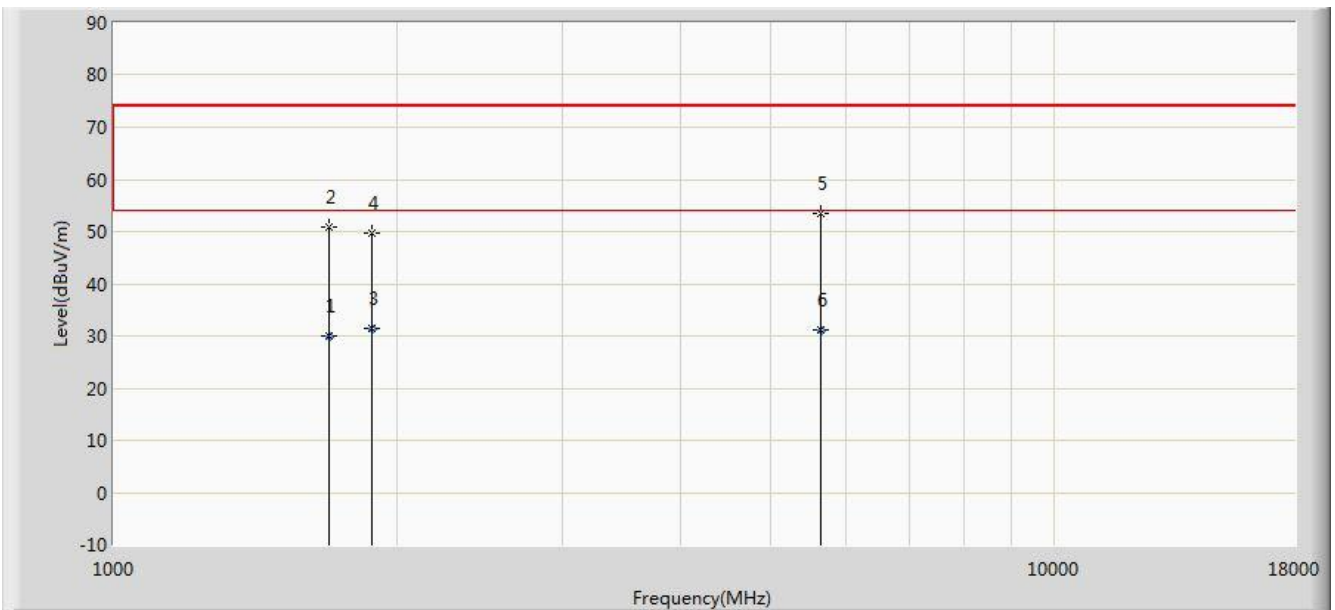


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			1694.890	31.726	35.260	-22.274	54.000	-3.534	AV
2			1697.000	52.047	55.576	-21.953	74.000	-3.529	PK
3			1880.360	27.474	30.214	-26.526	54.000	-2.740	AV
4			1884.000	48.686	51.406	-25.314	74.000	-2.720	PK
5		*	5649.500	53.108	46.128	-20.892	74.000	6.981	PK
6			5651.320	31.851	24.860	-22.149	54.000	6.990	AV

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB).

Site: AC2	Time: 2018/07/24 - 11:03
Limit: FCC_Part15.109_RE(3m)_Class B	Engineer: Messiah Li
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: DECT IP Phone	Power: AC 120V/60Hz
Test Mode 2	

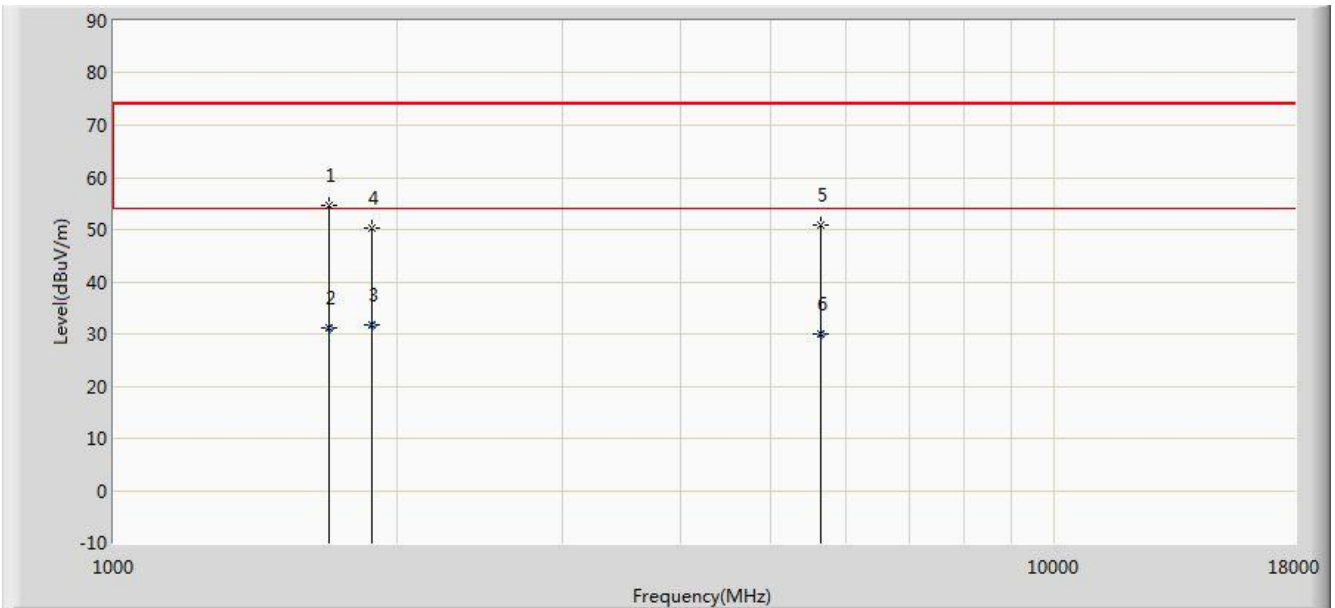


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			1694.326	29.911	33.446	-24.089	54.000	-3.535	AV
2			1697.000	50.935	54.464	-23.065	74.000	-3.529	PK
3			1880.300	31.485	34.225	-22.515	54.000	-2.740	AV
4			1884.000	49.755	52.475	-24.245	74.000	-2.720	PK
5		*	5649.500	53.619	46.639	-20.381	74.000	6.981	PK
6			5651.340	31.251	24.260	-22.749	54.000	6.991	AV

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB).

Site: AC2	Time: 2018/07/24 - 11:03
Limit: FCC_Part15.109_RE(3m)_Class B	Engineer: Messiah Li
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: DECT IP Phone	Power: AC 120V/60Hz
Test Mode 2	



No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	1697.000	54.714	58.243	-19.286	74.000	-3.529	PK
2			1697.620	31.152	34.680	-22.848	54.000	-3.528	AV
3			1882.146	31.604	34.334	-22.396	54.000	-2.730	AV
4			1884.000	50.373	53.093	-23.627	74.000	-2.720	PK
5			5649.500	50.968	43.988	-23.032	74.000	6.981	PK
6			5651.340	30.131	23.140	-23.869	54.000	6.991	AV

Note: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB).

## **7. CONCLUSION**

The data collected relate only the item(s) tested and show that the device has been tested to comply with the requirements specified in FCC Rules and ISED Rules.

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The End