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576 Castle Peak Road, Kowloon,
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TEST REPORT

Report No.: 17050379HKG-002

Application For Original Grant of 47 CFR Part 15 Certification

New family of RSS-210 Issue 9 Equipment Certification

DECT 6.0 Cordless Telephone with Bluetooth Function - Base unit

FCC ID: EW780-0818-00
IC: 1135B-80081800

PREPARED AND CHECKED BY:	APPROVED BY:
Signed On File Leung Chiu Kuen, Stanley Engineer	Digitally signed by Jess Tang Location: Intertek Testing Services Hong Kong Ltd. Jess Tang Lead Engineer Date: October 10, 2017

TEST REPORT

GENERAL INFORMATION

Grantee:	VTech Telecommunications Ltd.
Grantee Address:	23/F., Tai Ping Industrial Centre, Block 1, 57 Ting Kok Road, Tai Po, Hong Kong.
FCC Specification Standard:	FCC Part 15, October 1, 2016 Edition
FCC ID:	EW780-0818-00
FCC Model(s):	XLC7BT, XLC7BT BS
IC Specification Standard:	RSS-210 Issue 9, August 2016 RSS-Gen Issue 4, November 2014
IC:	1135B-80081800
HVIN	XLC7BT
PMN	Home and Cellphone Calls
Type of EUT:	Transceiver
Description of EUT:	DECT 6.0 Cordless Telephone with Bluetooth Function - Base unit
Serial Number:	N/A
Sample Receipt Date:	May 09, 2017
Date of Test:	May 12 - October 08, 2017
Report Date:	October 10, 2017
Environmental Conditions:	Temperature: +10 to 40°C Humidity: 10 to 90%

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EXHIBIT 1 TEST RESULTS SUMMARY & STATEMENT OF COMPLIANCE

1.0 Test Results Summary & Statement of Compliance

1.1 Summary of Test Results

TEST ITEMS	FCC PART 15 SECTION	RSS-210/ RSS-GEN#/ RSS-310^ SECTION	RESULTS	DETAILS SEE SECTION
Antenna Requirement	15.203	8.3#	Pass	2.1
Security Code Information	15.214(d)	2.4	Pass	2.1
Radiated Emission	15.249(a), 209, & 109	A2.9(a)	Pass	4.2
Radiated Emission on the Bandedge	15.249(d)	A2.9(b)	Pass	4.3
Radiated Emission in Restricted Bands	15.205	2.2	Pass	4.2
AC Power Line Conducted Emission	15.207 & 15.107	8.8#	Pass	4.4

Note: Pursuant to FCC Part 15 Section 15.215(c), the 20dB bandwidth of the emission was contained within the frequency band designated (mentioned as above) which the EUT operated. The effects, if any, from frequency sweeping, frequency hopping, other modulation techniques and frequency stability over expected variations in temperature and supply voltage were considered.

1.2 Statement of Compliance

The equipment under test is found to be complying with the following standards:

FCC Part 15, October 1, 2016 Edition
RSS-210 Issue 9, August 2016
RSS-Gen Issue 4, November 2014

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EXHIBIT 2 GENERAL DESCRIPTION

2.0 General Description

2.1 Product Description

The XLC7BT is a DECT 6.0 Cordless Telephone With Bluetooth Function - Base Unit. It operates at frequency range of 2402MHz to 2480MHz. The Base Unit is powered by an AC adaptor 100-120VAC 60Hz 200mA and/or 3 x Ni-MH type, “AAA” size rechargeable battery pack (1.2V, 600mAh). With Bluetooth device registered and enabled, the Base Unit allows user uses the cordless handset to make or receive cellular phone calls via the cellular network. Two Bluetooth devices can be connected at the same time.

The Bluetooth antenna used in base unit is integral, and the test sample is a prototype.

For FCC, base unit of the Model(s): XLC7BT BS is the same as the Model: XLC7BT in electrical designs including software & firmware, PCB layout and construction design/physical design/enclosure. The only differences between these models are model number and packing to be sold for marketing purpose.

The circuit description is saved with filename: descri.pdf.

Connection between the device and the telephone network is accomplished through the use of USOC RJ11C in the 2-wire loop calling central office line.

2.2 Test Methodology

Both AC power line-conducted and radiated emission measurements were performed according to the procedures in ANSI C63.10 (2013). Preliminary radiated scans and all radiated measurements were performed in Radiated Emission Test Sites. All Radiated tests were performed at an antenna to EUT distance of 3 meters, unless stated otherwise in the "**Justification Section**" of this Application.

2.3 Test Facility

The radiated emission test sites and conducted measurement facility used to collect the radiated data and conducted data are at Workshop No. 3, G/F., World-Wide Industrial Centre, 43-47 Shan Mei Street, Fo Tan, Sha Tin, N.T., Hong Kong. This test facility and site measurement data have been fully placed on file with the FCC and IC No. 2042V.

EXHIBIT 3 SYSTEM TEST CONFIGURATION

3.0 System Test Configuration

3.1 Justification

For radiated emissions testing, the equipment under test (EUT) was setup to transmit continuously mode to simplify the measurement methodology. Care was taken to ensure proper power supply voltages during testing. During testing, all cables (if any) were manipulated to produce worst case emissions.

The Base Unit was powered by a 100-120VAC 60Hz 200mA to 6.0VDC 600mA adaptor and/or fully charged batteries.

For the measurements, the EUT was attached to a plastic stand if necessary and placed on the wooden turntable which is four feet in diameter and approximately 0.8m in height above the ground plane for emission measurement at or below 1GHz and 1.5m in height above the ground plane for emission measurement above 1GHz. If the base unit attached to peripherals, they were connected and operational to simulate typical use. The handset was remotely located as far from the antenna and the base as possible to ensure full power transmission from the base. Else, the base was wired to transmit full power.

The signal was maximized through rotation and placement in the three orthogonal axes. The antenna height and polarization were varied during the search for maximum signal level. The antenna height was varied from 1 to 4 meters. Radiated emissions were taken at three meters unless the signal level was too low for measurement at that distance. If necessary, a pre-amplifier was used and/or the test was conducted at a closer distance.

For any intentional radiator powered by AC power line, measurements of the radiated signal level of the fundamental frequency component of the emission was performed with the supply voltage varied between 85% and 115% of the nominal rated supply voltage.

For transmitter radiated measurement, the spectrum analyzer resolution bandwidth was 100 kHz for frequencies below 1000 MHz. The resolution bandwidth was 1 MHz for frequencies above 1000 MHz.

Radiated emission measurement for transmitter was performed from the lowest radio frequency signal generated in the device which is greater than 9 kHz to the tenth harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower.

Emission that are directly caused by digital circuits in the transmit path and transmitter portion were measured, and the limit are according to FCC Part 15 Section 15.209. Digital circuitry used to control additional functions other than the operation of the transmitter are subject to FCC Part 15 Section 15.109 Limits.

The DECT module was put into transmission mode when taking radiated emission data for determining worst-case spurious emission.

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3.1 Justification - Cont'd

Detector function for radiated emissions is in peak mode. Average readings, when required, are taken by measuring the duty cycle of the equipment under test and subtracting the corresponding amount in dB from the measured peak readings. A detailed description for the calculation of the average factor can be found in section 4.2.3.

Determination of pulse desensitization was made according to *Hewlett Packard Application Note 150-2, Spectrum Analysis... Pulsed RF.* The effective period (Teff) was 625µs. With the resolution bandwidth 1MHz and spectrum analyzer IF bandwidth 3dB, the pulse desensitization factor was 0dB.

For AC line conducted emission test, the EUT along with its peripherals were placed on a 1.0m(W)x1.5m(L) and 0.8m in height wooden table and the EUT was adjusted to maintain a 0.4 meter space from a vertical reference plane. The EUT was connected to power mains through a line impedance stabilization network (LISN), which provided 50ohm coupling impedance for measuring instrument. The LISN housing, measuring instrument case, reference ground plane, and vertical ground plane were bounded together. The excess power cable between the EUT and the LISN was bundled.

All connecting cables of EUT and peripherals were manipulated to find the maximum emission.

All relevant operation modes have been tested, and the worst case data was included in this report.

3.2 EUT Exercising Software

The EUT exercise program used during radiated and conducted testing was designed to exercise the various system components in a manner similar to a typical use.

3.3 Radiated Emission Test Setup

The figure below shows the test setup, which is utilized to make these measurements.

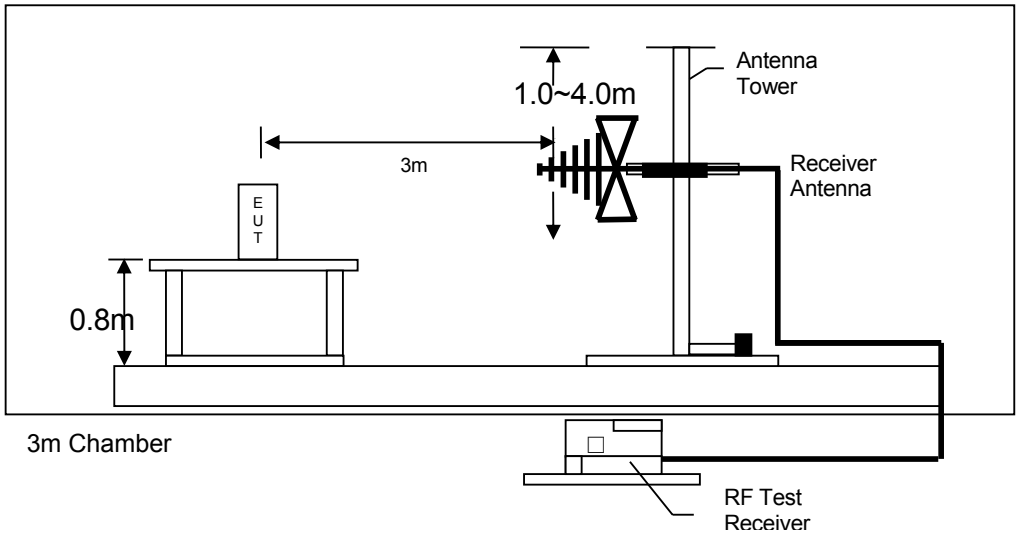

Figure 3.3.1 Test setup of radiated emissions up to 1GHz

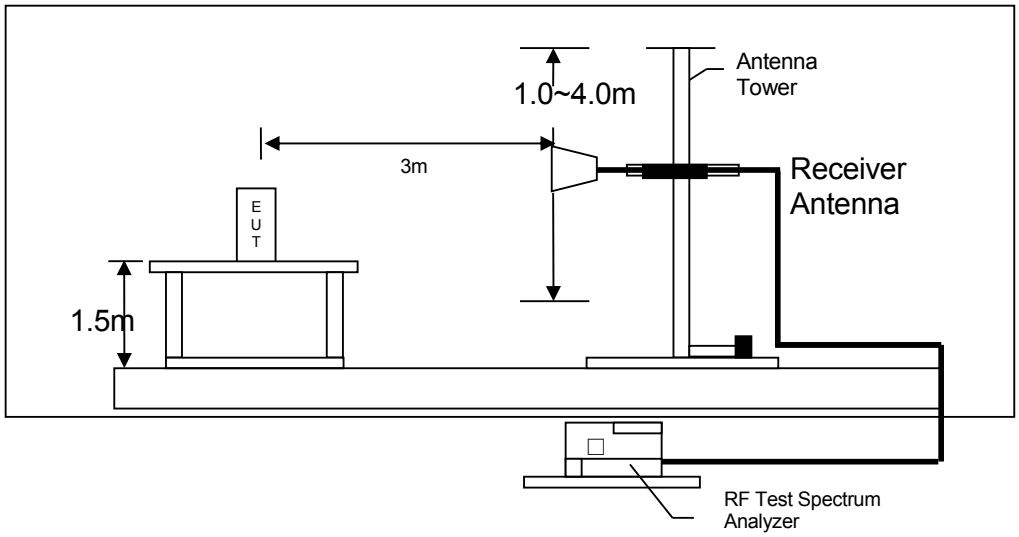

Figure 3.3.2 Test setup of radiated emissions above 1GHz

3.4 Conducted Emission Test Setup

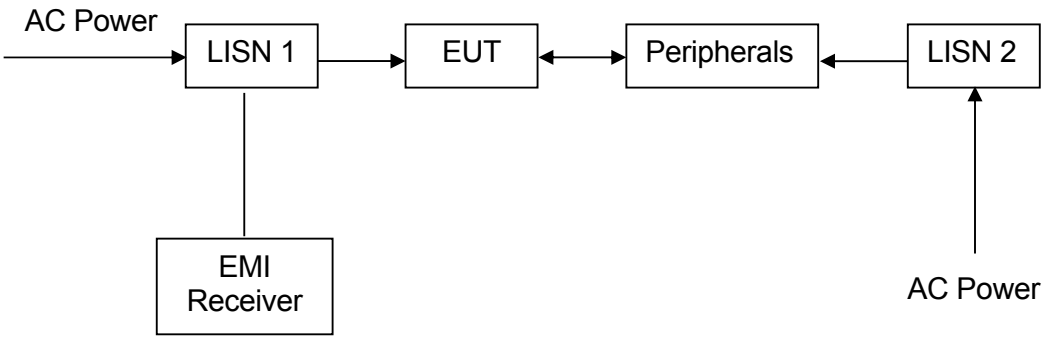

Figure 3.4.1

3.5 Details of EUT and Description of Accessories

Details of EUT:

An AC adaptor (provided with the unit) was used to power the device. Their description are listed below.

(1) An AC adaptor (100-120VAC 60Hz 200mA to 6.0VDC 600mA, Model: S006AKU0600060) (Supplied by Client)
(2) Base unit: A 3 x Ni-MH type "AAA" size rechargeable battery (1.2V 600mAh, Brand: GP) (Supplied by Client)
(3) Base unit: A 3 x Ni-MH type "AAA" size rechargeable battery (1.2V 600mAh, Brand: Corun) (Supplied by Client)

Description of Accessories:

(1) Telecommunication cable with RJ11C connectors (1m, unshielded) (Supplied by Intertek)
(2) Handset (Model: XLC7 HS, FCC ID: EW780-0358-00) (Supplied by Client)
(3) iphone 5c,: Model: A1529, FCC ID: BCG-E2694A (Supplied by Intertek)
(4) Telephone Line Simulator, Model: TLS-5D-01, S/N: 151101 (Supplied by Intertek)

3.6 Measurement Uncertainty

When determining of the test conclusion, the Measurement Uncertainty of test has been considered. The values of the Measurement uncertainty for radiated emission test, AC line conducted emission test and RF conducted test, frequency stability and timing jitter are ± 5.3dB, ± 4.2dB, ±1dB, ±23Hz, 0.1μs respectively.

Uncertainty and Compliance - Unless the standard specifically states that measured values are to be extended by the measurement uncertainty in determining compliance, all compliance determinations are based on the actual measured value.

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EXHIBIT 4 TEST RESULTS

4.0 Test Results

Data is included of the worst case configuration (the configuration which resulted in the highest emission levels). A sample calculation, configuration photographs and data tables of the emissions are included.

4.1 Field Strength Calculation

The field strength is calculated by adding the reading on the Spectrum Analyzer to the factors associated with preamplifiers (if any), antennas, cables, pulse desensitization and average factors (when specified limit is in average and measurements are made with peak detectors). A sample calculation is included below.

FS = RA + AF + CF - AG + PD + AV

where FS = Field Strength in dBμV/m
RA = Receiver Amplitude (including preamplifier) in dBμV
CF = Cable Attenuation Factor in dB
AF = Antenna Factor in dB
AG = Amplifier Gain in dB
PD = Pulse Desensitization in dB
AV = Average Factor in -dB

In the radiated emission table which follows, the reading shown on the data table may reflects the preamplifier gain. An example of the calculations, where the reading does not reflect the preamplifier gain, follows:

FS = RA + AF + CF - AG + PD +AV

Example
Assume a receiver reading of 62.0 dBμV is obtained. The antenna factor of 7.4 dB and cable factor of 1.6 dB is added. The amplifier gain of 29 dB is subtracted. The pulse desensitization factor of the spectrum analyzer was 0 dB, and the resultant average factor was -10 dB. The net field strength for comparison to the appropriate emission limit is 32 dBμV/m. This value in dBμV/m was converted to its corresponding level in μV/m.

RA = 62.0 dBμV
AF = 7.4 dB
CF = 1.6 dB
AG = 29 dB
PD = 0 dB
AV = -10 dB
FS = 62 + 7.4 +1.6 -29 +0 + (-10) = 32 dBμV/m

Level in μV/m = Common Antilogarithm [(32 dBμV/m)/20] = 39.8 μV/m

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4.2 Radiated Emissions

4.2.1 Radiated Emission Configuration Photograph

Worst Case Radiated Emission
at

729.127 MHz

The worst case radiated emission configuration photographs are saved with filename: config photos.pdf

4.2.2 Radiated Emission Data

The data in tables 1-4 list the significant emission frequencies, the limit and the margin of compliance. Test setup is shown in section 3.3 Figure 3.3.1 and 3.3.2.

Judgement -

Passed by 10.8 dB margin

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RADIATED EMISSION DATA

Mode: TX-Channel 00

Table 1

Polari-zation	Frequency (MHz)	Reading (dBµV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m - Peak (dBµV/m)	Average Factor (dB)	Calculated at 3m (dBµV/m)	Average Limit at 3m (dBµV/m)	Margin (dB)
H	2402.000	103.7	33	29.4	100.1	24	76.1	94.0	-17.9
H	**4804.000**	**59.4**	**33**	**34.9**	**61.3**	**24**	**37.3**	**54.0**	**-16.7**
V	7206.000	49.5	33	37.9	54.4	24	30.4	54.0	-23.6
H	9608.000	43.3	33	40.4	50.7	24	26.7	54.0	-27.3
H	**12010.000**	**40.3**	**33**	**40.5**	**47.8**	**24**	**23.8**	**54.0**	**-30.2**
H	14412.000	40.4	33	40.0	47.4	24	23.4	54.0	-30.6

Polari-zation	Frequency (MHz)	Reading (dBµV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m - Peak (dBµV/m)	Peak Limit at 3m (dBµV/m)	Margin (dB)
H	2402.000	103.7	33	29.4	100.1	114.0	-13.9
H	**4804.000**	**59.4**	**33**	**34.9**	**61.3**	**74.0**	**-12.7**
V	7206.000	49.5	33	37.9	54.4	74.0	-19.6
H	9608.000	43.3	33	40.4	50.7	74.0	-23.3
H	**12010.000**	**40.3**	**33**	**40.5**	**47.8**	**74.0**	**-26.2**
H	14412.000	40.4	33	40.0	47.4	74.0	-26.6

NOTES:

1. Peak detector is used for the emission measurement.

2. All measurements were made at 3 meters. Radiated emissions not detected at the 3-meter distance were measured at 0.3-meter and an inverse proportional extrapolation was performed to compare the signal level to the 3-meter limit. No other radiated emissions than those reported were detected at a test distance of 0.3-meter.

3. Negative value in the margin column shows emission below limit.

4. Horn antenna is used for the emission over 1000MHz.

5. Emission (the row indicated by ***bold italic***) within the restricted band meets the requirement of FCC Part 15 Section 15.205 / RSS-210 Section 2.2.

Mode: TX-Channel 39

Table 2

Polari-zation	Frequency (MHz)	Reading (dBµV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m - Peak (dBµV/m)	Average Factor (dB)	Calculated at 3m (dBµV/m)	Average Limit at 3m (dBµV/m)	Margin (dB)
H	2440.000	104.1	33	29.4	100.5	24	76.5	94.0	-17.5
H	**4880.000**	**59.3**	**33**	**34.9**	**61.2**	**24**	**37.2**	**54.0**	**-16.8**
V	**7320.000**	**49.7**	**33**	**37.9**	**54.6**	**24**	**30.6**	**54.0**	**-23.4**
H	9760.000	42.9	33	40.4	50.3	24	26.3	54.0	-27.7
H	**12200.000**	**40.3**	**33**	**40.5**	**47.8**	**24**	**23.8**	**54.0**	**-30.2**
H	14640.000	41.7	33	38.4	47.1	24	23.1	54.0	-30.9

Polari-zation	Frequency (MHz)	Reading (dBµV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m - Peak (dBµV/m)	Peak Limit at 3m (dBµV/m)	Margin (dB)
H	2440.000	104.1	33	29.4	100.5	114.0	-13.5
H	**4880.000**	**59.3**	**33**	**34.9**	**61.2**	**74.0**	**-12.8**
V	**7320.000**	**49.7**	**33**	**37.9**	**54.6**	**74.0**	**-19.4**
H	9760.000	42.9	33	40.4	50.3	74.0	-23.7
H	**12200.000**	**40.3**	**33**	**40.5**	**47.8**	**74.0**	**-26.2**
H	14640.000	41.7	33	38.4	47.1	74.0	-26.9

NOTES:

1. Peak detector is used for the emission measurement.

2. All measurements were made at 3 meters. Radiated emissions not detected at the 3-meter distance were measured at 0.3-meter and an inverse proportional extrapolation was performed to compare the signal level to the 3-meter limit. No other radiated emissions than those reported were detected at a test distance of 0.3-meter.

3. Negative value in the margin column shows emission below limit.

4. Horn antenna is used for the emission over 1000MHz.

5. Emission (the row indicated by ***bold italic***) within the restricted band meets the requirement of FCC Part 15 Section 15.205 / RSS-210 Section 2.2.

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Mode: TX-Channel 78

Table 3

Polari-zation	Frequency (MHz)	Reading (dBµV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m - Peak (dBµV/m)	Average Factor (dB)	Calculated at 3m (dBµV/m)	Average Limit at 3m (dBµV/m)	Margin (dB)
H	2480.000	104.2	33	29.4	100.6	24	76.6	94.0	-17.4
H	**4960.000**	**59.9**	**33**	**34.9**	**61.8**	**24**	**37.8**	**54.0**	**-16.2**
V	**7440.000**	**49.4**	**33**	**37.9**	**54.3**	**24**	**30.3**	**54.0**	**-23.7**
H	9920.000	43.2	33	40.4	50.6	24	26.6	54.0	-27.4
H	**12400.000**	**39.7**	**33**	**40.5**	**47.2**	**24**	**23.2**	**54.0**	**-30.8**
H	14880.000	41.7	33	38.4	47.1	24	23.1	54.0	-30.9

Polari-zation	Frequency (MHz)	Reading (dBµV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m - Peak (dBµV/m)	Peak Limit at 3m (dBµV/m)	Margin (dB)
H	2480.000	104.2	33	29.4	100.6	114.0	-13.4
H	**4960.000**	**59.9**	**33**	**34.9**	**61.8**	**74.0**	**-12.2**
V	**7440.000**	**49.4**	**33**	**37.9**	**54.3**	**74.0**	**-19.7**
H	9920.000	43.2	33	40.4	50.6	74.0	-23.4
H	**12400.000**	**39.7**	**33**	**40.5**	**47.2**	**74.0**	**-26.8**
H	14880.000	41.7	33	38.4	47.1	74.0	-26.9

NOTES:

1. Peak detector is used for the emission measurement.

2. All measurements were made at 3 meters. Radiated emissions not detected at the 3-meter distance were measured at 0.3-meter and an inverse proportional extrapolation was performed to compare the signal level to the 3-meter limit. No other radiated emissions than those reported were detected at a test distance of 0.3-meter.

3. Negative value in the margin column shows emission below limit.

4. Horn antenna is used for the emission over 1000MHz.

5. Emission (the row indicated by ***bold italic***) within the restricted band meets the requirement of FCC Part 15 Section 15.205 / RSS-210 Section 2.2.

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Mode: Talk with selected Bluetooth

Table 4

Polarization	Frequency (MHz)	Reading (dBµV)	Pre-amp (dB)	Antenna Factor (dB)	Net at 3m (dBµV/m)	Limit at 3m (dBµV/m)	Margin (dB)
V	48.308	28.0	16	11.0	23.0	40.0	-17.0
V	54.613	28.9	16	11.0	23.9	40.0	-16.1
V	143.368	30.8	16	14.0	28.8	43.5	-14.7
V	159.373	27.7	16	16.0	27.7	43.5	-15.8
V	211.511	26.3	16	17.0	27.3	43.5	-16.2
H	304.510	23.2	16	22.0	29.2	46.0	-16.8
H	**322.576**	**23.0**	**16**	**23.0**	**30.0**	**46.0**	**-16.0**
V	729.127	21.2	16	30.0	35.2	46.0	-10.8

NOTES:
1. Peak Detector Data unless otherwise stated.
2. All measurements were made at 3 meters. Harmonic emissions not detected at the 3-meter distances were measured at 0.3-meter and an inverse proportional extrapolation was performed to compare the signal level to the 3-meter limit. No other harmonic emissions than those reported were detected at a test distance of 0.3-meter.
3. Negative sign in the column shows value below limit.
4. Horn antenna is used for the emission over 1000MHz.
5. Emission (the row indicated by ***bold italic***) within the restricted band meets the requirement of FCC Part 15 Section 15.205 / RSS-210 Section 2.2.
6. Measurement Uncertainty is ±5.3dB at a level of confidence of 95%.

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4.2.3 Transmitter Duty Cycle Calculation

Based on the Bluetooth Specification Version 2.0 / 2.1 + EDR, the transmitter ON time for each timeslot of Bluetooth is 625µs. DH5 has the maximum duty cycle, which consists of 5 continuous Tx slots and 1 Rx slot. Therefore one hopset take (5+1) x 625µs = 3.75ms. For one period for a pseudo-random hopping through at least 20 RF channels in adaptive mode (worst case), it take: 20 x 3.75ms = 75ms.

The dwell time for DH5 is 5 x 625us = 3.125ms

For the worst case calculation, there are two transmissions might occur in 100ms.

Therefore,

Duty Cycle (DC) = Maximum On time in 100ms/100ms
= 3.125ms x 2 /100ms
= 0.0625

Average Factor (AF) of Bluetooth in dB = $20 \log_{10} (0.0625)$
= -24.0dB

4.3 Radiated Emission on the Bandedge

From the following plots, they show that the fundamental emissions are confined in the specified band (2400MHz and 2483.5MHz). In case of emissions up to two standard bandwidths away from the bandedge, the delta measurement technique is used for determining bandedge compliance. Standard bandwidth is the bandwidth specified by ANSI C63.4 (2014) for frequency being measured.

Emissions radiated outside of the specified frequency bands, except harmonics, are attenuated by 50 dB below the level of the fundamental or to the general radiated emission limits in FCC Part 15 Section 15.209 / Table 4 of RSS-Gen, whichever is the lesser attenuation, which meet the requirement of FCC Part 15 Section 15.249(d) / RSS-210 A2.9(b).

The plots of radiated emission on the bandedge are saved as below.

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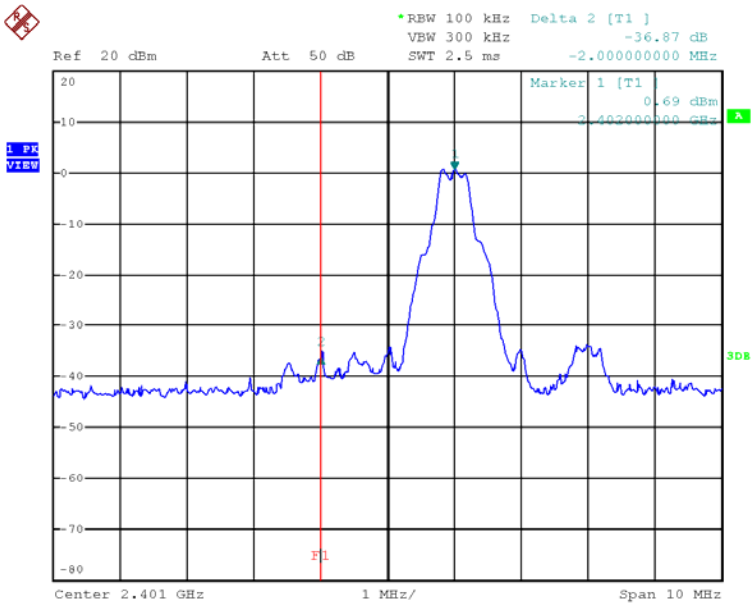
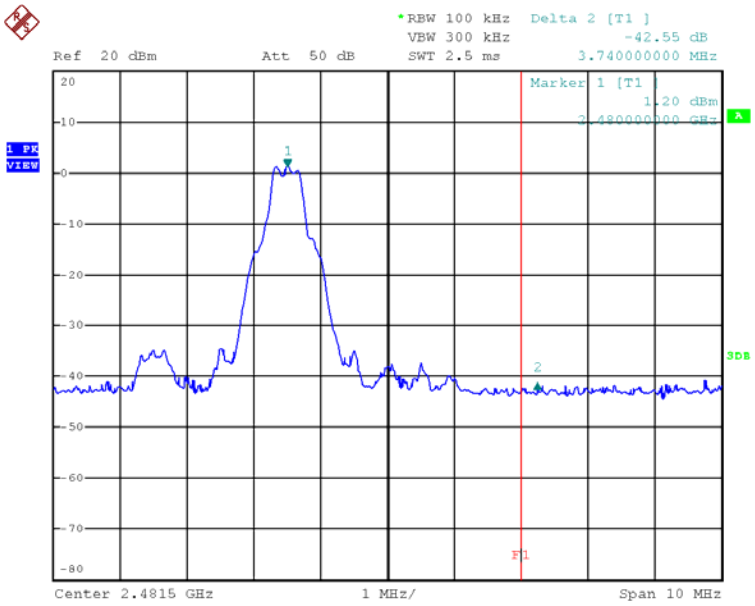
BASE UNIT WITH BLUETOOTH PORTION, LOWEST CHANNEL



BASE UNIT WITH BLUETOOTH PORTION, HIGHEST CHANNEL



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Bandedge compliance is determined by applying marker-delta method, i.e.

Resultant Field Strength = Fundamental Emissions - Delta from the plot

Resultant field strength for the lowest and/or highest channel(s), with corresponding average values are calculated as follows:

AC adaptor	Channel	Fundamental Emission (dBµV/m)	Delta from the Plot (dB)	Resultant Field Strength (dBµV/m)	Average Limit (dBµV/m)	Margin (dB)
Ten Pao	Lowest	76.1	36.87	39.23	54	-14.77
	Highest	76.6	42.55	34.05	54	-19.95

Ac adaptor	Channel	Fundamental Emission (dBµV/m)	Delta from the Plot (dB)	Resultant Field Strength (dBµV/m)	Peak Limit (dBµV/m)	Margin (dB)
Ten Pao	Lowest	100.1	36.87	63.23	74	-10.77
	Highest	100.6	42.55	58.05	74	-15.95

The resultant field strength meets the general radiated emission limit in FCC Part 15 Section 15.209 / Table 5 of RSS-Gen, which does not exceed 74dBµV/m for peak limit and also 54dBµV/m for average limit.

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4.4 AC Power Line Conducted Emission

[ ] Not applicable – EUT is only powered by battery for operation.

[x] EUT connects to AC power line. Emission Data is listed in following pages.

[ ] Base Unit connects to AC power line and has transmission. Handset connects to AC power line but has no transmission. Emission Data of Base Unit is listed in following pages.

Test setup is shown in section 3.4 Figure 3.4.1.

4.4.1 AC Power Line Conducted Emission Configuration Photograph

Worst Case Line-Conducted Configuration
at

316.5 MHz

The worst case line conducted configuration photographs are saved with filename: config photos.pdf.

4.4.2 AC Power Line Conducted Emission Data

The plot(s) and data in the following pages list the significant emission frequencies, the limit and the margin of compliance.

Passed by 14.41 dB margin compared with CISPR average limit

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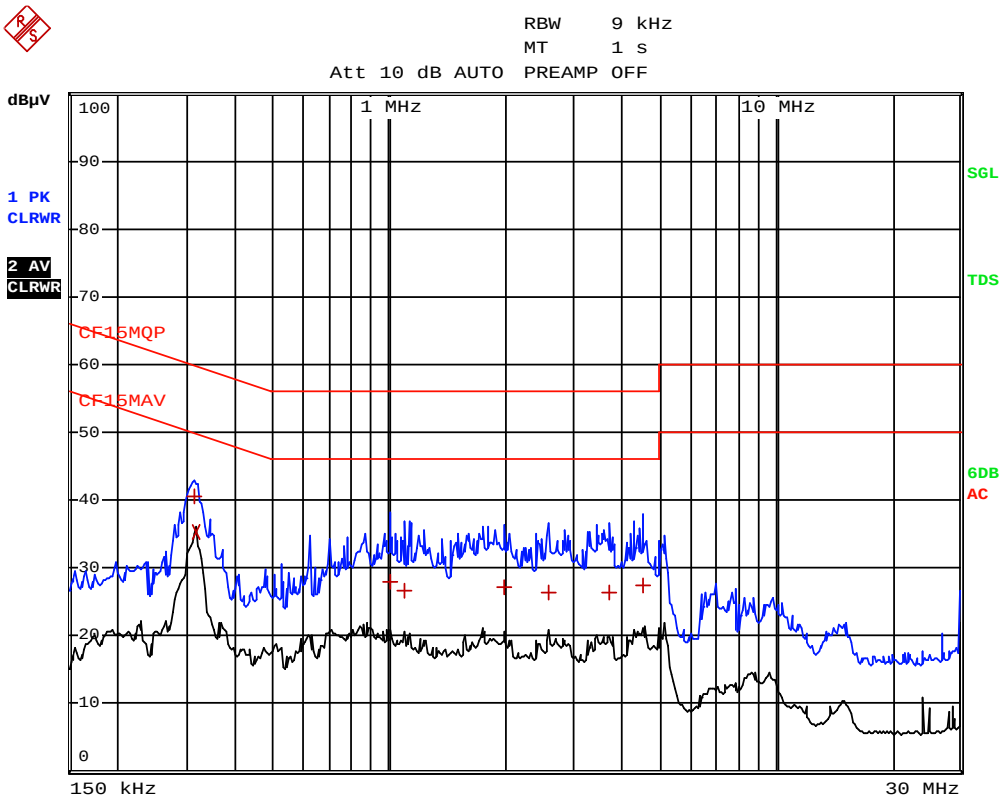
CONDUCTED EMISSION DATA

Worst Case: Talk mode with Bluetooth



TEST REPORT

Worst Case: Talk mode with Bluetooth

EDIT PEAK LIST (Final Measurement Results)

Trace1: CF15MQP
Trace2: CF15MAV
Trace3: ---

	TRACE	FREQUENCY	LEVEL dBµV		DELTA LIMIT dB
1	Quasi Peak	312 kHz	40.65	N	-19.25
2	CISPR Average	316.5 kHz	35.38	L1	-14.41
1	Quasi Peak	1.0095 MHz	27.84	L1	-28.15
1	Quasi Peak	1.095 MHz	26.67	N	-29.32
1	Quasi Peak	1.9995 MHz	27.20	L1	-28.79
1	Quasi Peak	2.598 MHz	26.47	N	-29.52
1	Quasi Peak	3.696 MHz	26.48	L1	-29.51
1	Quasi Peak	4.5645 MHz	27.33	L1	-28.66

EXHIBIT 5 EQUIPMENT LIST

5.0 Equipment List

1) Radiated Emissions Test

Equipment	Biconical Antenna	EMI Test Receiver (9kHz to 26.5GHz)	Double Ridged Guide Antenna
Registration No.	EW-0571	EW-3156	EW-0194
Manufacturer	EMCO	ROHDESCHWARZ	EMCO
Model No.	3104C	ESR26	3115
Calibration Date	May. 18, 2016	Dec. 06. 2016	Aug. 10, 2016
Calibration Due Date	Nov. 18, 2017	Dec. 06, 2017	Feb. 10, 2018

Equipment	Log Periodic Antenna	Pyramidal Horn Antenna	Pyramidal Horn Antenna
Registration No.	EW-0447	EW-0905	EW-0905
Manufacturer	EMCO	EMCO	EMCO
Model No.	3146	3160-09	3160-09
Calibration Date	May. 18, 2016	Feb. 12, 2016	Aug. 18, 2017
Calibration Due Date	Nov. 18, 2017	Aug. 12, 2017	Feb. 18, 2019

Equipment	Notch Filter (cutoff frequency 2.4GHz to 2.5GHz)	RF Cable 9kHz to 1000MHz	RF Cable (up to 40GHz)
Registration No.	EW-3155	EW-3170	EW-3155
Manufacturer	MICROTRONICS	N/A	N/A
Model No.	BRM50701-02	9kHz to 1000MHz	1-40 GHz
Calibration Date	May. 26, 2017	Mar. 20, 2017	Dec. 05, 2016
Calibration Due Date	May. 26, 2018	Mar. 20, 2018	Dec. 05, 2017

Equipment	Solid State Low Noise Preamplifier Assembly (1 - 18)GHz	Spectrum Analyzer	RF Pre-amplifier 3 pcs (9kHz to 40GHz)
Registration No.	EW-3229	EW-2249	EW-3006
Manufacturer	BONN ELEKTRO	R&S	SCHWARZBECK
Model No.	BLMA 0118-5G	FSP30	BBV 9744
Calibration Date	Oct. 24, 2016	Dec. 23, 2016	Mar. 23, 2017
Calibration Due Date	Oct. 24, 2017	Nov, 27. 2017	Mar. 23, 2018

2) Conducted Emissions Test

Equipment	EMI Test Receiver	RF Cable 9kHz to 1000MHz	LISN
Registration No.	EW-3156	EW-3170	EW-2874
Manufacturer	ROHDESCHWARZ	N/A	R&S
Model No.	ESR26	9kHz to 1000MHz	ENV-216
Calibration Date	Dec. 06. 2016	Mar. 20, 2017	Mar. 16, 2017
Calibration Due Date	Dec. 06, 2017	Mar. 20, 2018	Mar. 16, 2018

3) Conductive Measurement Test

Equipment	Temperature & Humidity Chamber	Spectrum Analyzer	Digital Multimeter
Registration No.	EW-2134	EW-2466	EW-1021
Manufacturer	GIANT FORCE	R&S	FLUKE
Model No.	GTH-750-40-CP-SD	FSP30	87-IV
Calibration Date	Sep. 26, 2016	Oct. 03, 2016	Oct. 31, 2016
Calibration Due Date	Sep. 4, 2017	Aug. 20, 2017	Nov. 29, 2017

END OF TEST REPORT