

Issuing Laboratory:
Intertek Testing Services Hong Kong Limited

Hong Kong Accreditation Service (HKAS) has accredited this laboratory under the Hong Kong Laboratory Accreditation Scheme (HOKLAS) for specific laboratory activities as listed in the HOKLAS directory of accredited laboratories. The results shown in this report were determined by this laboratory in accordance with its terms of accreditation.



TEST REPORT

Report Number: 14010088HKG-002

Application
for

Original Grant of 47 CFR Part 15 Certification
New Family of RSS-210 Issue 8 Equipment Certification

1.9GHz Digital Modulation Cordless Phone with Caller ID,
Speakerphone, Digital Answering Machine and Bluetooth - Base Unit
Bluetooth Portion

FCC ID: EW780-9423-00

IC: 1135B-80942300

Prepared and Checked by:

Approved by:

Handwritten signature of Yeung Yung Fai.

Yeung Yung Fai, James
Engineer

Handwritten signature of Nip Ming Fung.

Nip Ming Fung, Melvin
Assistant Manager
March 06, 2014

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Intertek Testing Services Hong Kong Ltd.

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GENERAL INFORMATION

Applicant Name (FCC):	VTech Telecommunications Ltd.
Applicant 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, 2012 Edition
FCC ID:	EW780-9423-00
FCC Model(s):	1. DS6611, DS6611-2, DS6611-3, DS6611-4, DS661Z-XY 2. DS6621, DS6621-2, DS6621-3, DS6621-4, DS662Z-XY
IC Specification Standard:	RSS-210 Issue 8, December 2010 RSS-Gen Issue 3, December 2010
IC:	1135B-80942300
IC Model(s):	1. DS6611, DS6611-2, DS6611-3, DS6611-4 2. DS6621, DS6621-2, DS6621-3, DS6621-4
Type of EUT:	Transmitter
Description of EUT:	1. 1.9GHz Digital Modulation Cordless Phone with Caller ID, Speakerphone and Bluetooth - Base Unit Bluetooth Portion 2. 1.9GHz Digital Modulation Cordless Phone with Caller ID, Speakerphone, Digital Answering Machine and Bluetooth - Base Unit Bluetooth Portion
Serial Number:	N/A
Sample Receipt Date:	December 10, 2013
Date of Test:	December 14, 2013 to January 15, 2014
Report Date:	March 06, 2014
Environmental Conditions:	Temperature: +10 to 40°C Humidity: 10 to 90%

Table of Contents

1.0 Test Results Summary & Statement of Compliance	4
1.1 Summary of Test Results	4
1.2 Statement of Compliance	4
2.0 General Description	6
2.1 Product Description	6
2.2 Test Methodology	7
2.3 Test Facility	7
3.0 System Test Configuration	9
3.1 Justification	9
3.2 EUT Exercising Software	10
3.3 Details of EUT and Description of Accessories	11
3.4 Measurement Uncertainty	11
4.0 Test Results	13
4.1 Field Strength Calculation	13
4.2 Radiated Emissions	14
4.2.1 Radiated Emission Configuration Photograph	14
4.2.2 Radiated Emission Data	14
4.2.3 Transmitter Duty Cycle Calculation	31
4.3 Radiated Emission on the Bandedge	31
4.4 AC Power Line Conducted Emission	34
4.4.1 AC Power Line Conducted Emission Configuration Photograph	34
4.4.2 AC Power Line Conducted Emission Data	34
5.0 Equipment List	44

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EXHIBIT 1
TEST RESULTS SUMMARY & STATEMENT OF COMPLIANCE

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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	7.1.2 [#]	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
AC Power Line Conducted Emission	15.207 & 15.107	7.2.4 [#]	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, 2012 Edition
RSS-210 Issue 8, December 2010
RSS-Gen Issue 3, December 2010

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EXHIBIT 2
GENERAL DESCRIPTION

2.0 General Description

2.1 Product Description

The DS6611-2 is a 1.9GHz Digital Modulation Cordless Phone with Caller ID, Speakerphone and Bluetooth - Base Unit Bluetooth Portion., while DS6621-2 is a 1.9GHz Digital Modulation Cordless Phone with Caller ID, Speakerphone, Bluetooth and Digital Answering Machine - Base Unit Bluetooth Portion. Only Base unit has Bluetooth feature and it operates at frequency range of 2402MHz-2480MHz. The Base Unit is powered by an adaptor 100-120VAC to 6VDC 400mA. 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 antennas used in base unit is integral, and the test sample is a prototype.

For FCC, base unit of Model(s): DS6611, DS6611-3, DS6611-4 and DS661Z-XY are the same as the Model: DS6611-2 in electrical designs, including software & firmware, PCB layout and construction design/physical design/enclosure. The only differences between these models are color, model number, number of handset and extra charger to be sold for marketing purpose. Base unit of Model(s): DS6621, DS6621-3, DS6621-4 and DS662Z-XY are the same as the Model: DS6621-2 in electrical designs, including software & firmware, PCB layout and construction design/physical design/enclosure. The only differences between these models are color, model number, number of handset and extra charger to be sold for marketing purpose. Suffix (X) indicates any alphanumeric character or blank is representing number of handset and extra charger. Suffix (Y) indicates any alphanumeric character or blank is representing different color of enclosure. Suffix (Z) indicates any alphanumeric character is representing different package type (material).

For IC, base unit of Model(s): DS6611, DS6611-3 and DS6611-4 are the same as the Model: DS6611-2 in electrical designs, including software & firmware, PCB layout and construction design/physical design/enclosure. The only differences between these models are color, model number, number of handset and extra charger to be sold for marketing purpose. Base unit of Model(s): DS6621, DS6621-3 and DS6621-4 are the same as the Model: DS6621-2 in electrical designs, including software & firmware, PCB layout and construction design/physical design/enclosure. The only differences between these models are color, model number, number of handset and extra charger 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.

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2.2 Test Methodology

Both AC power line-conducted and radiated emission measurements were performed according to the procedures in ANSI C63.4 (2009). Preliminary radiated scans and all radiated measurements were performed in Open Area 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 open area test site and conducted measurement facility used to collect the radiated data and conducted data are at Roof Top and 2nd Floor respectively of Intertek Testing Services Hong Kong Ltd., which is located at Garment Centre, 576 Castle Peak Road, Kowloon, Hong Kong. This test facility and site measurement data have been fully placed on file with the FCC and the Industry Canada.

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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 to 6VDC 400mA adaptor.

For the measurements, the EUT was attached to a plastic stand if necessary and placed on the wooden turntable. 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.

Radiated emission measurement was performed from the frequency 30MHz to 1GHz.

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.

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3.1 Justification (continuous)

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

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

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.

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3.3 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 to 6VDC 400mA, Model: RJ-AS060400U001, Brand: RuiJing and Model: S003GU0600040 Brand: Ten Pao) (Supplied by Client)

Description of Accessories:

- (1) Telephone Line Simulator, Model: TLS-5D-01, S/N: 151101 (Supplied by Intertek)
- (2) Nokia Mobile Phone, Model: 303, FCC ID: PPIRM-763 (Supplied by Intertek)
- (3) Handset, Model(s): DS6611-2, DS6621-2, FCC ID: EW780-9423-00 (Supplied by Client)
- (4) 3m Telephone Line (Supplied by Intertek)
- (5) 1m Telephone Line with Termination (Supplied by Intertek)

3.4 Measurement Uncertainty

When determining of the test conclusion, the Measurement Uncertainty of test has been considered.

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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 $\text{dB}\mu\text{V}/\text{m}$
- RA = Receiver Amplitude (including preamplifier) in $\text{dB}\mu\text{V}$
- 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 reflect 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 $62.0 \text{ dB}\mu\text{V}$ 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 $32 \text{ dB}\mu\text{V}/\text{m}$. This value in $\text{dB}\mu\text{V}/\text{m}$ was converted to its corresponding level in $\mu\text{V}/\text{m}$.

$$\begin{aligned} RA &= 62.0 \text{ dB}\mu\text{V} \\ AF &= 7.4 \text{ dB} \\ CF &= 1.6 \text{ dB} \\ AG &= 29 \text{ dB} \\ PD &= 0 \text{ dB} \\ AV &= -10 \text{ dB} \\ FS &= 62 + 7.4 + 1.6 - 29 + 0 + (-10) = 32 \text{ dB}\mu\text{V}/\text{m} \end{aligned}$$

$$\text{Level in } \mu\text{V}/\text{m} = \text{Common Antilogarithm} [(32 \text{ dB}\mu\text{V}/\text{m})/20] = 39.8 \mu\text{V}/\text{m}$$

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04.2 Radiated Emissions

4.2.1 Radiated Emission Configuration Photograph

Worst Case Radiated Emission
at

Model DS6611-2: 55.3 MHz

Model DS6621-2: 55.3 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 1-16 list the significant emission frequencies, the limit and the margin of compliance.

Judgement -

Model DS6611-2 with Ten Pao adaptor: Passed by 6.1 dB margin

Model DS6621-2 with RuiJing and Ten Pao adaptor: Passed by 6.5 dB margin

Model: DS6611-2
AC Adaptor: RuiJing
Mode: TX-Channel 00

Table 1

Radiated Emission Data

Polarization	Frequency (MHz)	Reading (dB μ V)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Average Factor (dB)	Calculated at 3m (dB μ V/m)	Average Limit at 3m (dB μ V/m)	Margin (dB)
V	2402.000	95.1	33	29.4	24	67.5	94.0	-26.5
H	4804.000	58.5	33	34.9	24	36.4	54.0	-17.6
H	7206.000	45.7	33	37.9	24	26.6	54.0	-27.4
H	9608.000	42.8	33	40.4	24	26.2	54.0	-27.8
H	12010.000	42.0	33	40.5	24	25.5	54.0	-28.5
H	14412.000	42.3	33	40.0	24	25.3	54.0	-28.7

Polarization	Frequency (MHz)	Reading (dB μ V)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m - Peak (dB μ V/m)	Peak Limit at 3m (dB μ V/m)	Margin (dB)
V	2402.000	95.1	33	29.4	91.5	114.0	-22.5
H	4804.000	58.5	33	34.9	60.4	74.0	-13.6
H	7206.000	45.7	33	37.9	50.6	74.0	-23.4
H	9608.000	42.8	33	40.4	50.2	74.0	-23.8
H	12010.000	42.0	33	40.5	49.5	74.0	-24.5
H	14412.000	42.3	33	40.0	49.3	74.0	-24.7

- 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.

Model: DS6611-2
AC Adaptor: RuiJing
Mode: TX-Channel 39

Table 2

Radiated Emission Data

Polarization	Frequency (MHz)	Reading (dB μ V)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Average Factor (dB)	Calculated at 3m (dB μ V/m)	Average Limit at 3m (dB μ V/m)	Margin (dB)
V	2441.000	96.1	33	29.4	24	68.5	94.0	-25.5
H	4882.000	60.3	33	34.9	24	38.2	54.0	-15.8
H	7323.000	45.5	33	37.9	24	26.4	54.0	-27.6
H	9764.000	42.8	33	40.4	24	26.2	54.0	-27.8
H	12205.000	42.0	33	40.5	24	25.5	54.0	-28.5
H	14646.000	43.9	33	38.4	24	25.3	54.0	-28.7

Polarization	Frequency (MHz)	Reading (dB μ V)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m - Peak (dB μ V/m)	Peak Limit at 3m (dB μ V/m)	Margin (dB)
V	2441.000	96.1	33	29.4	92.5	114.0	-21.5
H	4882.000	60.3	33	34.9	62.2	74.0	-11.8
H	7323.000	45.5	33	37.9	50.4	74.0	-23.6
H	9764.000	42.8	33	40.4	50.2	74.0	-23.8
H	12205.000	42.3	33	40.5	49.8	74.0	-24.2
H	14646.000	43.9	33	38.4	49.3	74.0	-24.7

- 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.

Model: DS6611-2
AC Adaptor: RuiJing
Mode: TX-Channel 78

Table 3

Radiated Emission Data

Polarization	Frequency (MHz)	Reading (dB μ V)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Average Factor (dB)	Calculated at 3m (dB μ V/m)	Average Limit at 3m (dB μ V/m)	Margin (dB)
V	2480.000	98.4	33	29.4	24	70.8	94.0	-23.2
H	4960.000	60.2	33	34.9	24	38.1	54.0	-15.9
H	7440.000	45.4	33	37.9	24	26.3	54.0	-27.7
H	9920.000	42.2	33	40.4	24	25.6	54.0	-28.4
H	12400.000	41.9	33	40.5	24	25.4	54.0	-28.6
H	14880.000	43.9	33	38.4	24	25.3	54.0	-28.7

Polarization	Frequency (MHz)	Reading (dB μ V)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m - Peak (dB μ V/m)	Peak Limit at 3m (dB μ V/m)	Margin (dB)
V	2480.000	98.4	33	29.4	94.8	114.0	-19.2
H	4960.000	60.2	33	34.9	62.1	74.0	-11.9
H	7440.000	45.4	33	37.9	50.3	74.0	-23.7
H	9920.000	42.2	33	40.4	49.6	74.0	-24.4
H	12400.000	41.9	33	40.5	49.4	74.0	-24.6
H	14880.000	43.9	33	38.4	49.3	74.0	-24.7

- 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.
5. 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.

Model: DS6611-2
AC Adaptor: RuiJing
Mode: Talk with selected Bluetooth

Table 4

Radiated Emission Data

Polarization	Frequency (MHz)	Reading (dB μ V)	Pre-amp (dB)	Antenna Factor (dB)	Net at 3m (dB μ V/m)	Limit at 3m (dB μ V/m)	Margin (dB)
V	55.300	38.6	16	11.0	33.6	40.0	-6.4
V	110.600	35.8	16	14.0	33.8	43.5	-9.7
H	165.900	33.5	16	17.0	34.5	43.5	-9.0
H	268.032	30.9	16	22.0	36.9	46.0	-9.1
H	298.654	31.2	16	22.0	37.2	46.0	-8.8
H	348.597	27.2	16	24.0	35.2	46.0	-10.8

- 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. 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.

Model: DS6611-2
AC Adaptor: Ten Pao
Mode: TX-Channel 00

Table 5

Radiated Emission Data

Polarization	Frequency (MHz)	Reading (dB μ V)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Average Factor (dB)	Calculated at 3m (dB μ V/m)	Average Limit at 3m (dB μ V/m)	Margin (dB)
V	2402.000	94.5	33	29.4	24	66.9	94.0	-27.1
H	4804.000	58.7	33	34.9	24	36.6	54.0	-17.4
H	7206.000	45.7	33	37.9	24	26.6	54.0	-27.4
H	9608.000	42.9	33	40.4	24	26.3	54.0	-27.7
H	12010.000	42.0	33	40.5	24	25.5	54.0	-28.5
H	14412.000	42.4	33	40.0	24	25.4	54.0	-28.6

Polarization	Frequency (MHz)	Reading (dB μ V)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m - Peak (dB μ V/m)	Peak Limit at 3m (dB μ V/m)	Margin (dB)
V	2402.000	94.5	33	29.4	90.9	114.0	-23.1
H	4804.000	58.7	33	34.9	60.6	74.0	-13.4
H	7206.000	45.7	33	37.9	50.6	74.0	-23.4
H	9608.000	42.9	33	40.4	50.3	74.0	-23.7
H	12010.000	42.0	33	40.5	49.5	74.0	-24.5
H	14412.000	42.4	33	40.0	49.4	74.0	-24.6

- 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.

Model: DS6611-2
AC Adaptor: Ten Pao
Mode: TX-Channel 39

Table 6

Radiated Emission Data

Polarization	Frequency (MHz)	Reading (dB μ V)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Average Factor (dB)	Calculated at 3m (dB μ V/m)	Average Limit at 3m (dB μ V/m)	Margin (dB)
V	2441.000	96.2	33	29.4	24	68.6	94.0	-25.4
H	4882.000	60.3	33	34.9	24	38.2	54.0	-15.8
H	7323.000	45.5	33	37.9	24	26.4	54.0	-27.6
H	9764.000	42.8	33	40.4	24	26.2	54.0	-27.8
H	12205.000	41.7	33	40.5	24	25.2	54.0	-28.8
H	14646.000	43.8	33	38.4	24	25.2	54.0	-28.8

Polarization	Frequency (MHz)	Reading (dB μ V)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m - Peak (dB μ V/m)	Peak Limit at 3m (dB μ V/m)	Margin (dB)
V	2441.000	96.2	33	29.4	92.6	114.0	-21.4
H	4882.000	60.3	33	34.9	62.2	74.0	-11.8
H	7323.000	45.5	33	37.9	50.4	74.0	-23.6
H	9764.000	42.8	33	40.4	50.2	74.0	-23.8
H	12205.000	42.0	33	40.5	49.5	74.0	-24.5
H	14646.000	43.8	33	38.4	49.2	74.0	-24.8

- 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.

Model: DS6611-2
AC Adaptor: Ten Pao
Mode: TX-Channel 78

Table 7

Radiated Emission Data

Polarization	Frequency (MHz)	Reading (dB μ V)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Average Factor (dB)	Calculated at 3m (dB μ V/m)	Average Limit at 3m (dB μ V/m)	Margin (dB)
V	2480.000	98.9	33	29.4	24	71.3	94.0	-22.7
H	4960.000	60.2	33	34.9	24	38.1	54.0	-15.9
H	7440.000	45.4	33	37.9	24	26.3	54.0	-27.7
H	9920.000	42.4	33	40.4	24	25.8	54.0	-28.2
H	12400.000	41.9	33	40.5	24	25.4	54.0	-28.6
H	14880.000	43.9	33	38.4	24	25.3	54.0	-28.7

Polarization	Frequency (MHz)	Reading (dB μ V)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m - Peak (dB μ V/m)	Peak Limit at 3m (dB μ V/m)	Margin (dB)
V	2480.000	98.9	33	29.4	95.3	114.0	-18.7
H	4960.000	60.2	33	34.9	62.1	74.0	-11.9
H	7440.000	45.4	33	37.9	50.3	74.0	-23.7
H	9920.000	42.4	33	40.4	49.8	74.0	-24.2
H	12400.000	41.9	33	40.5	49.4	74.0	-24.6
H	14880.000	43.9	33	38.4	49.3	74.0	-24.7

- 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.

Model: DS6611-2
AC Adaptor: Ten Pao
Mode: Talk with selected Bluetooth

Table 8

Radiated Emission Data

Polarization	Frequency (MHz)	Reading (dB μ V)	Pre-amp (dB)	Antenna Factor (dB)	Net at 3m (dB μ V/m)	Limit at 3m (dB μ V/m)	Margin (dB)
V	55.300	38.9	16	11.0	33.9	40.0	-6.1
V	110.600	35.8	16	14.0	33.8	43.5	-9.7
H	165.900	33.5	16	17.0	34.5	43.5	-9.0
H	268.032	31.6	16	22.0	37.6	46.0	-8.4
H	298.654	30.6	16	22.0	36.6	46.0	-9.4
H	348.597	27.1	16	24.0	35.1	46.0	-10.9

- 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. 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.

Model: DS6621-2
AC Adaptor: RuiJing
Mode: TX-Channel 00

Table 9

Radiated Emission Data

Polarization	Frequency (MHz)	Reading (dB μ V)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Average Factor (dB)	Calculated at 3m (dB μ V/m)	Average Limit at 3m (dB μ V/m)	Margin (dB)
V	2402.000	99.1	33	29.4	24	71.5	94.0	-22.5
H	4804.000	58.3	33	34.9	24	36.2	54.0	-17.8
H	7206.000	45.7	33	37.9	24	26.6	54.0	-27.4
H	9608.000	42.8	33	40.4	24	26.2	54.0	-27.8
H	12010.000	42.0	33	40.5	24	25.5	54.0	-28.5
H	14412.000	42.3	33	40.0	24	25.3	54.0	-28.7

Polarization	Frequency (MHz)	Reading (dB μ V)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m - Peak (dB μ V/m)	Peak Limit at 3m (dB μ V/m)	Margin (dB)
V	2402.000	99.1	33	29.4	95.5	114.0	-18.5
H	4804.000	58.3	33	34.9	60.2	74.0	-13.8
H	7206.000	45.7	33	37.9	50.6	74.0	-23.4
H	9608.000	42.8	33	40.4	50.2	74.0	-23.8
H	12010.000	42.0	33	40.5	49.5	74.0	-24.5
H	14412.000	42.3	33	40.0	49.3	74.0	-24.7

- 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.

Model: DS6621-2
AC Adaptor: RuiJing
Mode: TX-Channel 39

Table 10

Radiated Emission Data

Polarization	Frequency (MHz)	Reading (dBμV)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Average Factor (dB)	Calculated at 3m (dBμV/m)	Average Limit at 3m (dBμV/m)	Margin (dB)
V	2441.000	99.1	33	29.4	24	71.5	94.0	-22.5
H	4882.000	58.1	33	34.9	24	36.0	54.0	-18.0
H	7323.000	45.5	33	37.9	24	26.4	54.0	-27.6
H	9764.000	42.8	33	40.4	24	26.2	54.0	-27.8
H	12205.000	42.3	33	40.5	24	25.8	54.0	-28.2
H	14646.000	43.9	33	38.4	24	25.3	54.0	-28.7

Polarization	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)
V	2441.000	99.1	33	29.4	95.5	114.0	-18.5
H	4882.000	58.1	33	34.9	60.0	74.0	-14.0
H	7323.000	45.5	33	37.9	50.4	74.0	-23.6
H	9764.000	42.8	33	40.4	50.2	74.0	-23.8
H	12205.000	42.3	33	40.5	49.8	74.0	-24.2
H	14646.000	43.9	33	38.4	49.3	74.0	-24.7

- 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.

Model: DS6621-2
AC Adaptor: RuiJing
Mode: TX-Channel 78

Table 11

Radiated Emission Data

Polarization	Frequency (MHz)	Reading (dB μ V)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Average Factor (dB)	Calculated at 3m (dB μ V/m)	Average Limit at 3m (dB μ V/m)	Margin (dB)
V	2480.000	99.4	33	29.4	24	71.8	94.0	-22.2
H	4960.000	58.5	33	34.9	24	36.4	54.0	-17.6
H	7440.000	45.4	33	37.9	24	26.3	54.0	-27.7
H	9920.000	42.2	33	40.4	24	25.6	54.0	-28.4
H	12400.000	41.9	33	40.5	24	25.4	54.0	-28.6
H	14880.000	43.9	33	38.4	24	25.3	54.0	-28.7

Polarization	Frequency (MHz)	Reading (dB μ V)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m - Peak (dB μ V/m)	Peak Limit at 3m (dB μ V/m)	Margin (dB)
V	2480.000	99.4	33	29.4	95.8	114.0	-18.2
H	4960.000	58.5	33	34.9	60.4	74.0	-13.6
H	7440.000	45.4	33	37.9	50.3	74.0	-23.7
H	9920.000	42.2	33	40.4	49.6	74.0	-24.4
H	12400.000	41.9	33	40.5	49.4	74.0	-24.6
H	14880.000	43.9	33	38.4	49.3	74.0	-24.7

- 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.

Model: DS6621-2
AC Adaptor: RuiJing
Mode: Talk with selected Bluetooth

Table 12

Radiated Emission Data

Polarization	Frequency (MHz)	Reading (dB μ V)	Pre-amp (dB)	Antenna Factor (dB)	Net at 3m (dB μ V/m)	Limit at 3m (dB μ V/m)	Margin (dB)
V	55.300	38.5	16	11.0	33.5	40.0	-6.5
V	110.600	35.6	16	14.0	33.6	43.5	-9.9
H	165.900	33.5	16	17.0	34.5	43.5	-9.0
H	268.032	30.8	16	22.0	36.8	46.0	-9.2
H	298.654	31.2	16	22.0	37.2	46.0	-8.8
H	348.597	27.2	16	24.0	35.2	46.0	-10.8

- 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. 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.

Model: DS6621-2
AC Adaptor: Ten Pao
Mode: TX-Channel 00

Table 13

Radiated Emission Data

Polarization	Frequency (MHz)	Reading (dB μ V)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Average Factor (dB)	Calculated at 3m (dB μ V/m)	Average Limit at 3m (dB μ V/m)	Margin (dB)
V	2402.000	99.0	33	29.4	24	71.4	94.0	-22.6
H	4804.000	58.3	33	34.9	24	36.2	54.0	-17.8
H	7206.000	45.7	33	37.9	24	26.6	54.0	-27.4
H	9608.000	42.8	33	40.4	24	26.2	54.0	-27.8
H	12010.000	42.0	33	40.5	24	25.5	54.0	-28.5
H	14412.000	42.3	33	40.0	24	25.3	54.0	-28.7

Polarization	Frequency (MHz)	Reading (dB μ V)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m - Peak (dB μ V/m)	Peak Limit at 3m (dB μ V/m)	Margin (dB)
V	2402.000	99.0	33	29.4	95.4	114.0	-18.6
H	4804.000	58.3	33	34.9	60.2	74.0	-13.8
H	7206.000	45.7	33	37.9	50.6	74.0	-23.4
H	9608.000	42.8	33	40.4	50.2	74.0	-23.8
H	12010.000	42.0	33	40.5	49.5	74.0	-24.5
H	14412.000	42.3	33	40.0	49.3	74.0	-24.7

- 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.

Model: DS6621-2
AC Adaptor: Ten Pao
Mode: TX-Channel 39

Table 14

Radiated Emission Data

Polarization	Frequency (MHz)	Reading (dB μ V)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Average Factor (dB)	Calculated at 3m (dB μ V/m)	Average Limit at 3m (dB μ V/m)	Margin (dB)
V	2441.000	99.2	33	29.4	24	71.6	94.0	-22.4
H	4882.000	58.2	33	34.9	24	36.1	54.0	-17.9
H	7323.000	45.5	33	37.9	24	26.4	54.0	-27.6
H	9764.000	42.8	33	40.4	24	26.2	54.0	-27.8
H	12205.000	42.0	33	40.5	24	25.5	54.0	-28.5
H	14646.000	43.9	33	38.4	24	25.3	54.0	-28.7

Polarization	Frequency (MHz)	Reading (dB μ V)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m - Peak (dB μ V/m)	Peak Limit at 3m (dB μ V/m)	Margin (dB)
V	2441.000	99.2	33	29.4	95.6	114.0	-18.4
H	4882.000	58.2	33	34.9	60.1	74.0	-13.9
H	7323.000	45.5	33	37.9	50.4	74.0	-23.6
H	9764.000	42.8	33	40.4	50.2	74.0	-23.8
H	12205.000	42.0	33	40.5	49.5	74.0	-24.5
H	14646.000	43.9	33	38.4	49.3	74.0	-24.7

- 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.

Model: DS6621-2
AC Adaptor: Ten Pao
Mode: TX-Channel 78

Table 15

Radiated Emission Data

Polarization	Frequency (MHz)	Reading (dB μ V)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Average Factor (dB)	Calculated at 3m (dB μ V/m)	Average Limit at 3m (dB μ V/m)	Margin (dB)
V	2480.000	99.5	33	29.4	24	71.9	94.0	-22.1
H	4960.000	58.4	33	34.9	24	36.3	54.0	-17.7
H	7440.000	45.4	33	37.9	24	26.3	54.0	-27.7
H	9920.000	42.1	33	40.4	24	25.5	54.0	-28.5
H	12400.000	41.9	33	40.5	24	25.4	54.0	-28.6
H	14880.000	43.9	33	38.4	24	25.3	54.0	-28.7

Polarization	Frequency (MHz)	Reading (dB μ V)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m - Peak (dB μ V/m)	Peak Limit at 3m (dB μ V/m)	Margin (dB)
V	2480.000	99.5	33	29.4	95.9	114.0	-18.1
H	4960.000	58.4	33	34.9	60.3	74.0	-13.7
H	7440.000	45.4	33	37.9	50.3	74.0	-23.7
H	9920.000	42.1	33	40.4	49.5	74.0	-24.5
H	12400.000	41.9	33	40.5	49.4	74.0	-24.6
H	14880.000	43.9	33	38.4	49.3	74.0	-24.7

- 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.

Model: DS6621-2
AC Adaptor: Ten Pao
Mode: Talk with selected Bluetooth

Table 16

Radiated Emission Data

Polarization	Frequency (MHz)	Reading (dB μ V)	Pre-amp (dB)	Antenna Factor (dB)	Net at 3m (dB μ V/m)	Limit at 3m (dB μ V/m)	Margin (dB)
V	55.300	38.5	16	11.0	33.5	40.0	-6.5
V	110.600	35.8	16	14.0	33.8	43.5	-9.7
H	165.900	33.5	16	17.0	34.5	43.5	-9.0
H	268.032	31.1	16	22.0	37.1	46.0	-8.9
H	298.654	30.6	16	22.0	36.6	46.0	-9.4
H	348.597	26.5	16	24.0	34.5	46.0	-11.5

- 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. 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.

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 625 μ s. DH5 has the maximum duty cycle, which consists of 5 continuous Tx slots and 1 Rx slot. Therefore one hopset take $(5+1) \times 625\mu\text{s} = 3.75\text{ms}$. For one period for a pseudo-random hopping through all 79 RF channels, it take: $79 \times 3.75\text{ms} = 296.25\text{ms}$.

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

Therefore,

$$\begin{aligned}\text{Duty Cycle (DC)} &= \text{Maximum On time in 100ms}/100\text{ms} \\ &= 3.125\text{ms} \times 2 / 100\text{ms} \\ &= 0.0625\end{aligned}$$

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

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 (2009) 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 5 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.

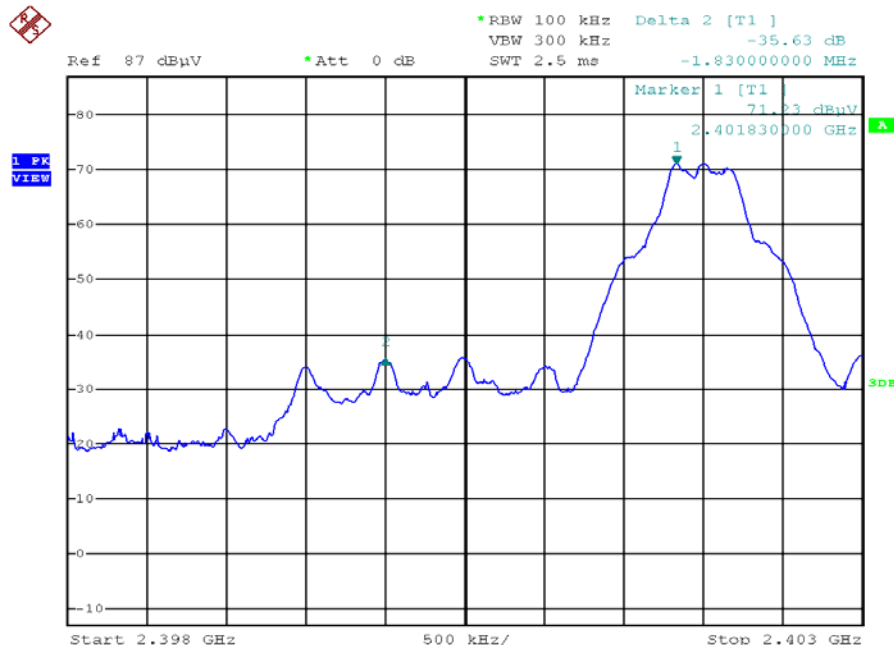
Issuing Laboratory:
Intertek Testing Services Hong Kong Limited

Hong Kong Accreditation Service (HKAS) has accredited this laboratory under the Hong Kong Laboratory Accreditation Scheme (HOKLAS) for specific laboratory activities as listed in the HOKLAS directory of accredited laboratories. The results shown in this report were determined by this laboratory in accordance with its terms of accreditation.

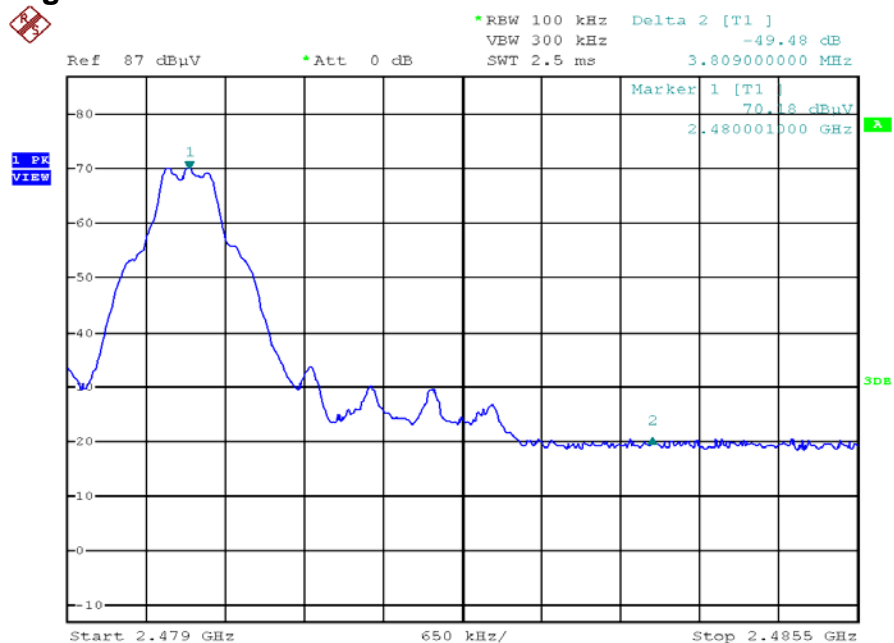


Plots of radiated emission on the bandedge

Lowest channel



Highest channel



Issuing Laboratory:
Intertek Testing Services Hong Kong Limited

Hong Kong Accreditation Service (HKAS) has accredited this laboratory under the Hong Kong Laboratory Accreditation Scheme (HOKLAS) for specific laboratory activities as listed in the HOKLAS directory of accredited laboratories. The results shown in this report were determined by this laboratory in accordance with its terms of accreditation.



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)
RuiJing	Lowest	67.5	35.63	31.87	54	-22.13
	Highest	70.8	49.48	21.32	54	-32.68
Ten Pao	Lowest	66.9	35.63	31.27	54	-22.73
	Highest	71.3	49.48	21.82	54	-32.18

Ac adaptor	Channel	Fundamental Emission (dBµV/m)	Delta from the Plot (dB)	Resultant Field Strength (dBµV/m)	Peak Limit (dBµV/m)	Margin (dB)
RuiJing	Lowest	91.5	35.63	55.87	74	-18.13
	Highest	94.8	49.48	45.32	74	-28.68
Ten Pao	Lowest	90.9	35.63	55.27	74	-18.73
	Highest	95.3	49.48	45.82	74	-28.18

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.

Issuing Laboratory:
Intertek Testing Services Hong Kong Limited

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4.4 AC Power Line Conducted Emission

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

4.4.1 AC Power Line Conducted Emission Configuration Photograph

Worst Case Line-Conducted Configuration
at

Model DS6611-2 with Ten Pao adaptor: 9.645 MHz

Model DS6621-2 with Ten Pao adaptor: 357 kHz

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.

Model DS6611-2 with Ten Pao adaptor :
Passed by 9.61 dB margin compared with quasi-peak limit

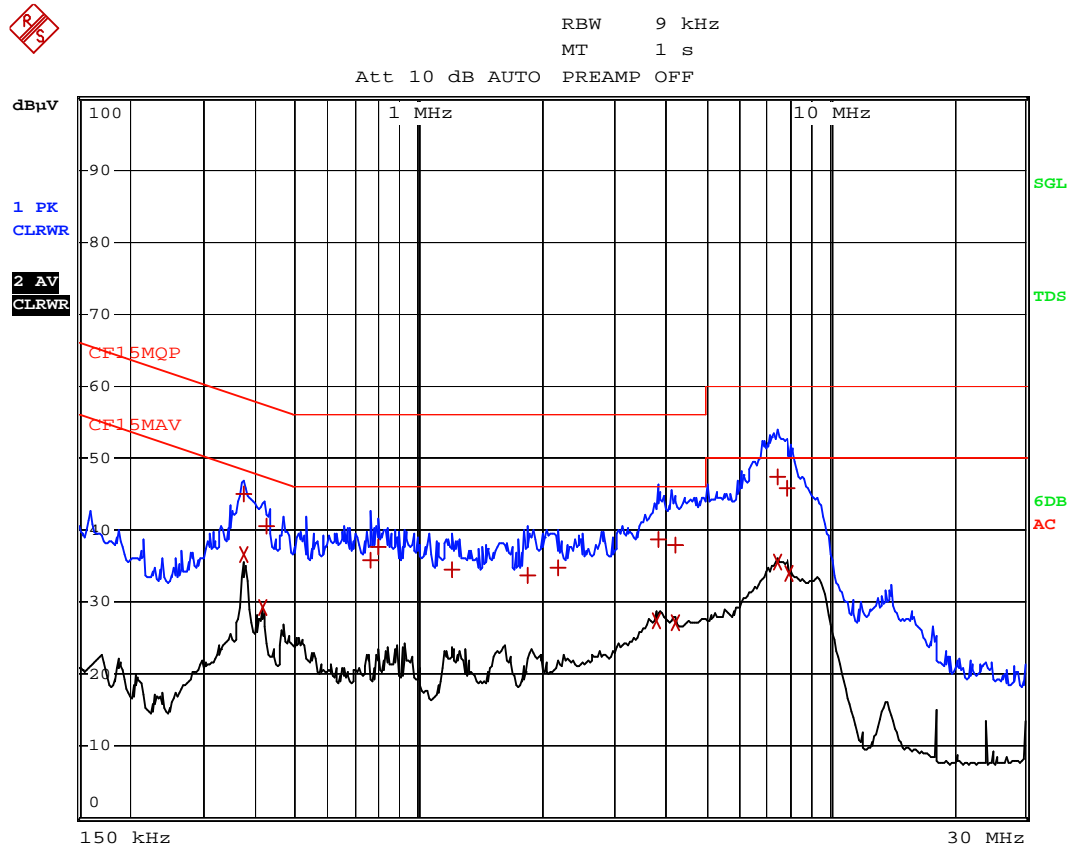
Model DS6621-2 with Ten Pao adaptor :
Passed by 10.99 dB margin compared with average limit

Issuing Laboratory:
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Model: DS6611-2
AC Adaptor: RuiJing
Worst Case: Talk with selected Bluetooth



Date: 17.DEC.2013 20:33:39

Issuing Laboratory:
Intertek Testing Services Hong Kong Limited

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Model: DS6611-2
AC Adaptor: RuiJing
Worst Case: Talk with selected Bluetooth

EDIT PEAK LIST (Final Measurement Results)				
Trace1:	CF15MQP			
Trace2:	CF15MAV			
Trace3:	---			
TRACE	FREQUENCY	LEVEL dBµV		DELTA LIMIT dB
1 Quasi Peak	375 kHz	45.09	L1 gnd	-13.29
2 CISPR Average	375 kHz	36.62	L1 gnd	-11.76
2 CISPR Average	415.5 kHz	29.29	L1 gnd	-18.24
1 Quasi Peak	424.5 kHz	40.65	N gnd	-16.70
1 Quasi Peak	762 kHz	35.85	L1 gnd	-20.14
1 Quasi Peak	793.5 kHz	37.67	L1 gnd	-18.32
1 Quasi Peak	1.2075 MHz	34.59	N gnd	-21.40
1 Quasi Peak	1.842 MHz	33.67	L1 gnd	-22.32
1 Quasi Peak	2.1795 MHz	34.71	L1 gnd	-21.29
2 CISPR Average	3.7905 MHz	27.44	L1 gnd	-18.55
1 Quasi Peak	3.8445 MHz	38.75	L1 gnd	-17.24
2 CISPR Average	4.2 MHz	27.20	L1 gnd	-18.79
1 Quasi Peak	4.218 MHz	37.99	L1 gnd	-18.00
2 CISPR Average	7.4805 MHz	35.48	L1 gnd	-14.51
1 Quasi Peak	7.5165 MHz	47.48	L1 gnd	-12.51
1 Quasi Peak	7.9935 MHz	45.87	L1 gnd	-14.12
2 CISPR Average	7.9935 MHz	34.08	L1 gnd	-15.91

Date: 17.DEC.2013 20:33:19

Issuing Laboratory:
Intertek Testing Services Hong Kong Limited

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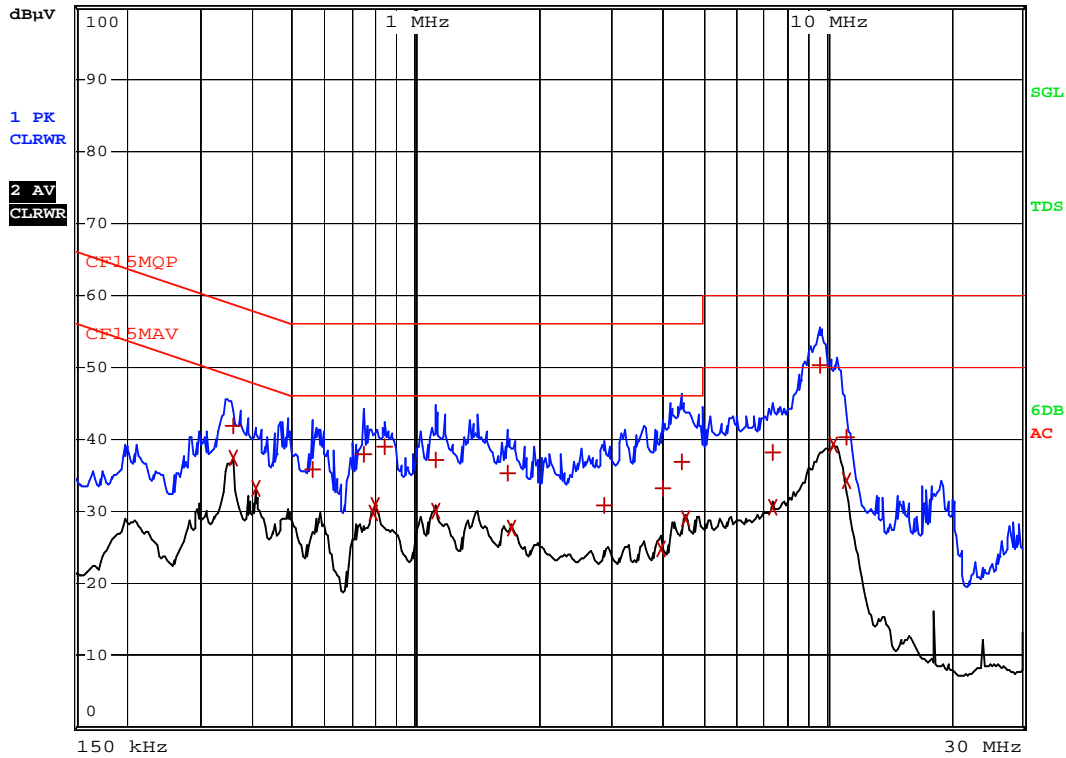


Model: DS6611-2
AC Adaptor: Ten Pao
Worst Case: Talk with selected Bluetooth



RBW 9 kHz
MT 1 s

Att 10 dB AUTO PREAMP OFF



Date: 17.DEC.2013 19:23:44

Issuing Laboratory:
Intertek Testing Services Hong Kong Limited

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Model: DS6611-2
AC Adaptor: Ten Pao
Worst Case: Talk with selected Bluetooth

EDIT PEAK LIST (Final Measurement Results)					
TRACE		FREQUENCY	LEVEL dBµV		DELTA LIMIT dB
Trace1:	CF15MQP				
Trace2:	CF15MAV				
Trace3:	---				
1	Quasi Peak	357 kHz	41.76	L1 gnd	-17.03
2	CISPR Average	357 kHz	37.36	L1 gnd	-11.43
2	CISPR Average	406.5 kHz	33.09	L1 gnd	-14.62
1	Quasi Peak	559.5 kHz	35.90	L1 gnd	-20.09
1	Quasi Peak	744 kHz	37.98	N gnd	-18.01
2	CISPR Average	784.5 kHz	29.91	L1 gnd	-16.08
2	CISPR Average	798 kHz	30.73	L1 gnd	-15.26
1	Quasi Peak	838.5 kHz	38.98	N gnd	-17.01
1	Quasi Peak	1.113 MHz	37.02	N gnd	-18.97
2	CISPR Average	1.122 MHz	29.96	L1 gnd	-16.03
1	Quasi Peak	1.671 MHz	35.40	N gnd	-20.59
2	CISPR Average	1.707 MHz	27.71	L1 gnd	-18.28
1	Quasi Peak	2.8905 MHz	30.83	N gnd	-25.16
2	CISPR Average	3.939 MHz	24.93	L1 gnd	-21.06
1	Quasi Peak	4.011 MHz	33.16	N gnd	-22.83
1	Quasi Peak	4.4385 MHz	36.83	N gnd	-19.16
2	CISPR Average	4.5285 MHz	28.95	L1 gnd	-17.04
1	Quasi Peak	7.4265 MHz	38.31	N gnd	-21.68
2	CISPR Average	7.4265 MHz	30.67	N gnd	-19.32
1	Quasi Peak	9.645 MHz	50.38	N gnd	-9.61

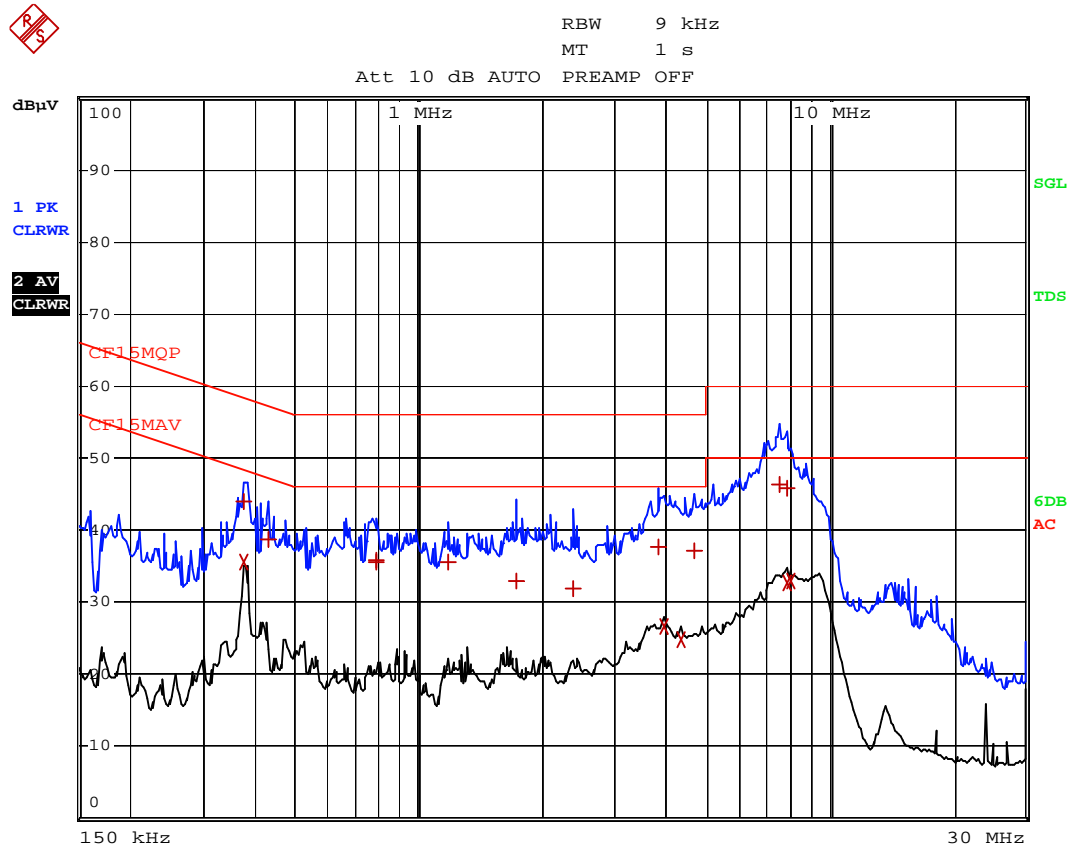
Date: 17.DEC.2013 19:23:26

Issuing Laboratory:
Intertek Testing Services Hong Kong Limited

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Model: DS6621-2
AC Adaptor: RuiJing
Worst Case: Talk with selected Bluetooth



Date: 24.DEC.2013 12:57:05

Issuing Laboratory:
Intertek Testing Services Hong Kong Limited

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Model: DS6621-2
AC Adaptor: RuiJing
Worst Case: Talk with selected Bluetooth

EDIT PEAK LIST (Final Measurement Results)					
Trace1: CF15MQP					
Trace2: CF15MAV					
Trace3: ---					
	TRACE	FREQUENCY	LEVEL dB μ V		DELTA LIMIT dB
1	Quasi Peak	379.5 kHz	43.87	L1 gnd	-14.41
2	CISPR Average	379.5 kHz	35.43	L1 gnd	-12.85
1	Quasi Peak	429 kHz	38.67	L1 gnd	-18.60
1	Quasi Peak	784.5 kHz	35.45	L1 gnd	-20.54
1	Quasi Peak	789 kHz	35.93	L1 gnd	-20.06
1	Quasi Peak	1.1805 MHz	35.53	N gnd	-20.46
1	Quasi Peak	1.725 MHz	33.02	N gnd	-22.98
1	Quasi Peak	2.3865 MHz	32.01	L1 gnd	-23.98
1	Quasi Peak	3.849 MHz	37.62	L1 gnd	-18.38
2	CISPR Average	3.9615 MHz	26.70	L1 gnd	-19.29
2	CISPR Average	4.371 MHz	24.86	L1 gnd	-21.13
1	Quasi Peak	4.704 MHz	37.10	L1 gnd	-18.89
1	Quasi Peak	7.5255 MHz	46.45	L1 gnd	-13.54
2	CISPR Average	7.962 MHz	32.60	L1 gnd	-17.39
1	Quasi Peak	7.98 MHz	45.84	L1 gnd	-14.15
2	CISPR Average	8.016 MHz	32.96	L1 gnd	-17.03

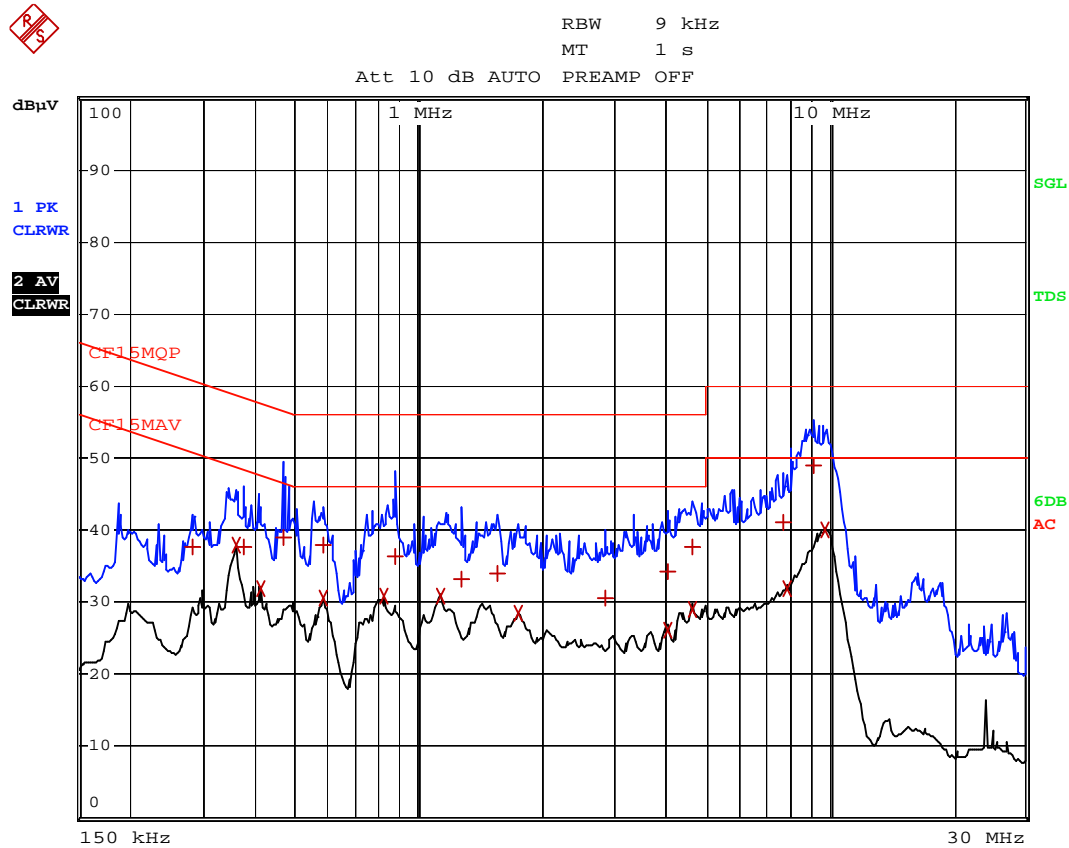
Date: 24.DEC.2013 12:56:37

Issuing Laboratory:
Intertek Testing Services Hong Kong Limited

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Model: DS6621-2
AC Adaptor: Ten Pao
Worst Case: Talk with selected Bluetooth



Date: 24.DEC.2013 12:31:09

Issuing Laboratory:
Intertek Testing Services Hong Kong Limited

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Model: DS6611-2
AC Adaptor: Ten Pao
Worst Case: Talk with selected Bluetooth

EDIT PEAK LIST (Final Measurement Results)					
TRACE		FREQUENCY	LEVEL dBµV		DELTA LIMIT dB
Trace1:	CF15MQP				
Trace2:	CF15MAV				
Trace3:	---				
1	Quasi Peak	280.5 kHz	37.65	L1 gnd	-23.14
2	CISPR Average	357 kHz	37.80	L1 gnd	-10.99
1	Quasi Peak	375 kHz	37.69	L1 gnd	-20.69
2	CISPR Average	411 kHz	31.96	L1 gnd	-15.66
1	Quasi Peak	465 kHz	38.85	L1 gnd	-17.74
1	Quasi Peak	586.5 kHz	37.88	L1 gnd	-18.12
2	CISPR Average	586.5 kHz	30.59	L1 gnd	-15.40
2	CISPR Average	820.5 kHz	30.77	L1 gnd	-15.22
1	Quasi Peak	879 kHz	36.28	L1 gnd	-19.71
2	CISPR Average	1.1265 MHz	30.81	L1 gnd	-15.18
1	Quasi Peak	1.266 MHz	33.24	L1 gnd	-22.75
1	Quasi Peak	1.5585 MHz	34.01	L1 gnd	-21.98
2	CISPR Average	1.7565 MHz	28.55	L1 gnd	-17.44
1	Quasi Peak	2.8365 MHz	30.54	L1 gnd	-25.45
2	CISPR Average	4.0245 MHz	26.10	L1 gnd	-19.89
1	Quasi Peak	4.029 MHz	34.27	N gnd	-21.72
2	CISPR Average	4.632 MHz	29.01	L1 gnd	-16.98
1	Quasi Peak	4.6545 MHz	37.69	N gnd	-18.30
1	Quasi Peak	7.7595 MHz	40.95	N gnd	-19.04
2	CISPR Average	7.971 MHz	31.86	N gnd	-18.13

Date: 24.DEC.2013 12:30:46

Issuing Laboratory:
Intertek Testing Services Hong Kong Limited

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**EXHIBIT 5
EQUIPMENT LIST**

Issuing Laboratory:
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5.0 Equipment List

1) Radiated Emissions Test

Equipment	EMI Test Receiver	Spectrum Analyzer	Broad-Band Horn Antenna
Registration No.	EW-2500	EW-2188	EW-1679
Manufacturer	R&S	AGILENTTECH	SCHWARZBECK
Model No.	ESCI	E4407B	BBHA9170
Calibration Date	Mar. 22, 2013	Nov. 5, 2012	Apr. 01. 2013
Calibration Due Date	Feb. 28, 2014	Feb. 5, 2014	Apr. 01. 2014

Equipment	Biconical Antenna	Log Periodic Antenna	Double Ridged Guide Antenna
Registration No.	EW-0954	EW-0447	EW-1015
Manufacturer	EMCO	EMCO	EMCO
Model No.	3104C	3148	3115
Calibration Date	Apr. 30, 2013	Aug. 19, 2013	Mar. 5, 2013
Calibration Due Date	Oct. 30, 2014	Feb. 19, 2015	Sep. 5, 2014

Equipment	Biconical Antenna	Log Periodic Antenna	Double Ridged Guide Antenna
Registration No.	EW-2512	EW-0446	EW-1133
Manufacturer	EMCO	EMCO	EMCO
Model No.	3104C	3146	3115
Calibration Date	Jun 25, 2013	Apr. 30, 2013	Oct. 5, 2012
Calibration Due Date	Dec 25, 2014	Oct. 30, 2014	Apr. 5, 2014

2) Conducted Emissions Test

Equipment	EMI Test Receiver	LISN	Pulse Limiter
Registration No.	EW-2500	EW-0192	EW-0700
Manufacturer	R&S	R&S	R&S
Model No.	ESCI	ESH3-Z5	ESH3-Z2
Calibration Date	Mar. 22, 2013	May 15, 2013	Jul. 30, 2012
Calibration Due Date	Feb. 28, 2014	Apr. 15, 2014	Jan. 30, 2014

END OF TEST REPORT