Issuing Laboratory:
Intertek Testing Services Hong Kong Limited

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TEST REPORT

Report Number: 14080083HKG-002

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

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

FCC ID: EW780-9665-00

IC: 1135B-80966500

Prepared and Checked by:

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Approved by:

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Assistant Manager
October 10, 2014

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GENERAL INFORMATION

Applicant Name:	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:	EW780-9665-00
FCC Model(s):	BT914
IC Specification Standard:	RSS-210 Issue 8, December 2010 RSS-Gen Issue 3, December 2010
IC:	1135B-80966500
IC Model(s):	BT914
Type of EUT:	Transmitter
Description of EUT:	1.9GHz Digital Modulation Cordless Phone with Caller ID, Digital Answering Machine and Bluetooth- Base Unit Bluetooth Portion
Serial Number:	N/A
Sample Receipt Date:	August 04, 2014
Date of Test:	September 17- October 7 , 2014
Report Date:	October 10, 2014
Environmental Conditions:	Temperature: +10 to 40°C Humidity: 10 to 90%

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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 Radiated Emission on the Bandedge	15.249(a), 209, & 109 15.249(d)	A2.9(a) A2.9(b)	Pass Pass	4.2 4.3
Radiated Emission in Restricted Bands	15.205	2.2	Pass	4.2
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

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2.0 General Description

2.1 Product Description

The BT914 is a 1.9GHz Digital Modulation Cordless Phone with Caller ID, Digital Answering Machine and Bluetooth-Base Unit Bluetooth Portion. It operates at frequency range of 2402MHz to 2480MHz. The Base Unit is powered by an adaptor 100-240VAC to 6VDC 450mA .

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

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 C63.4 (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 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 the Industry Canada.

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EXHIBIT 3
SYSTEM TEST CONFIGURATION

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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 100-240VAC to 6VDC 450mA 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.

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.

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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 (100-240VAC to 6VDC 450mA, Model: S003IU0600045, Brand: Ten Pao) (Supplied by Client)
(2) An AC adaptor (100-240VAC to 6VDC 450mA, Model: RJ-AS060450U501, Brand: Ruijing) (Supplied by Client)

Description of Accessories:

(1) Telecommunication cable with RJ11C connectors (1m, unshielded), terminated (Supplied by Intertek)
(2) 3m Telephone Line (Supplied by Intertek)
(3) Nokia Mobile Phone: Model: 5300, FCC ID: PPIRM-146 (Supplied by Intertek)
(4) Telephone Line Simulator, Model: TLS-5D-01, S/N: 151101 (Supplied by Intertek)
(5) The handset of BT914, FCC ID: EW780-9665-00 (Supplied by Client)

3.4 Measurement Uncertainty

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

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

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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

206.345 MHz with adaptor Ruijing

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

4.2.2 Radiated Emission Data

The data in tables 1-8 list the significant emission frequencies, the limit and the margin of compliance.

Judgement -

Passed by 0.7 dB margin

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Mode: TX-Channel 00 with adaptor Ruijing

Table 1, Base Unit

Radiated Emission Data

Polari-zation	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)
H	2402.000	104.7	33	29.4	24	77.1	94.0	-16.9
V	***4804.000***	***62.5***	***33***	***34.9***	***24***	***40.4***	***54.0***	***-13.6***
V	7206.000	48.1	33	37.9	24	29.0	54.0	-25.0
V	9608.000	49.5	33	40.4	24	32.9	54.0	-21.1
V	***12010.000***	***52.5***	***33***	***40.5***	***24***	***36.0***	***54.0***	***-18.0***
V	14412.000	54.6	33	40.0	24	37.6	54.0	-16.4

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	104.7	33	29.4	101.1	114.0	-12.9
V	***4804.000***	***62.5***	***33***	***34.9***	***64.4***	***74.0***	***-9.6***
V	7206.000	48.1	33	37.9	53.0	74.0	-21.0
V	9608.000	49.5	33	40.4	56.9	74.0	-17.1
V	***12010.000***	***52.5***	***33***	***40.5***	***60.0***	***74.0***	***-14.0***
V	14412.000	54.6	33	40.0	61.6	74.0	-12.4

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 39 with adaptor Ruijing

Table 2, Base Unit

Radiated Emission Data

Polari-zation	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)
H	2441.000	102.4	33	29.4	24	74.8	94.0	-19.2
V	***4882.000***	***62.6***	***33***	***34.9***	***24***	***40.5***	***54.0***	***-13.5***
V	***7323.000***	***47.6***	***33***	***37.9***	***24***	***28.5***	***54.0***	***-25.5***
V	9764.000	49.1	33	40.4	24	32.5	54.0	-21.5
V	***12205.000***	***52.9***	***33***	***40.5***	***24***	***36.4***	***54.0***	***-17.6***
V	14646.000	56.4	33	38.4	24	37.8	54.0	-16.2

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	2441.000	102.4	33	29.4	98.8	114.0	-15.2
V	***4882.000***	***62.6***	***33***	***34.9***	***64.5***	***74.0***	***-9.5***
V	***7323.000***	***47.6***	***33***	***37.9***	***52.5***	***74.0***	***-21.5***
V	9764.000	49.1	33	40.4	56.5	74.0	-17.5
V	***12205.000***	***52.9***	***33***	***40.5***	***60.4***	***74.0***	***-13.6***
V	14646.000	56.4	33	38.4	61.8	74.0	-12.2

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 with adaptor Ruijing

Table 3, Base Unit

Radiated Emission Data

Polari-zation	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)
H	2480.000	100.1	33	29.4	24	72.5	94.0	-21.5
V	***4960.000***	***61.6***	***33***	***34.9***	***24***	***39.5***	***54.0***	***-14.5***
V	***7440.000***	***47.7***	***33***	***37.9***	***24***	***28.6***	***54.0***	***-25.4***
V	9920.000	49.4	33	40.4	24	32.8	54.0	-21.2
V	***12400.000***	***53.3***	***33***	***40.5***	***24***	***36.8***	***54.0***	***-17.2***
V	14880.000	56.5	33	38.4	24	37.9	54.0	-16.1

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	100.1	33	29.4	96.5	114.0	-17.5
V	***4960.000***	***61.6***	***33***	***34.9***	***63.5***	***74.0***	***-10.5***
V	***7440.000***	***47.7***	***33***	***37.9***	***52.6***	***74.0***	***-21.4***
V	9920.000	49.4	33	40.4	56.8	74.0	-17.2
V	***12400.000***	***53.3***	***33***	***40.5***	***60.8***	***74.0***	***-13.2***
V	14880.000	56.5	33	38.4	61.9	74.0	-12.1

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 adaptor Ruijing

Table 4, Base unit

Radiated Emission Data

Polarization	Frequency (MHz)	Reading (dBµV)	Pre-amp (dB)	Antenna Factor (dB)	Net at 3m (dBµV/m)	Limit at 3m (dBµV/m)	Margin (dB)
V	52.345	38.7	16	11.0	33.7	40.0	-6.3
V	***128.233***	***31.6***	***16***	***14.0***	***29.6***	***43.5***	***-13.9***
V	206.345	41.8	16	17.0	42.8	43.5	-0.7
H	290.345	34.0	16	22.0	40.0	46.0	-6.0
H	312.876	37.1	16	23.0	44.1	46.0	-1.9
H	336.234	33.9	16	24.0	41.9	46.0	-4.1
H	414.567	31.3	16	25.0	40.3	46.0	-5.7
V	518.568	29.5	16	27.0	40.5	46.0	-5.5
V	726.234	29.7	16	30.0	43.7	46.0	-2.3
H	782.144	27.9	16	31.0	42.9	46.0	-3.1

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.

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Mode: TX-Channel 00 with adaptor Ten Pao

Table 5

Radiated Emission Data

Polari-zation	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)
H	2402.000	105.1	33	29.4	24	77.5	94.0	-16.5
V	***4804.000***	***62.3***	***33***	***34.9***	***24***	***40.2***	***54.0***	***-13.8***
V	7206.000	48.5	33	37.9	24	29.4	54.0	-24.6
V	9608.000	49.1	33	40.4	24	32.5	54.0	-21.5
V	***12010.000***	***53.3***	***33***	***40.5***	***24***	***36.8***	***54.0***	***-17.2***
V	14412.000	54.2	33	40.0	24	37.2	54.0	-16.8

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	105.1	33	29.4	101.5	114.0	-12.5
V	***4804.000***	***62.3***	***33***	***34.9***	***64.2***	***74.0***	***-9.8***
V	7206.000	48.5	33	37.9	53.4	74.0	-20.6
V	9608.000	49.1	33	40.4	56.5	74.0	-17.5
V	***12010.000***	***53.3***	***33***	***40.5***	***60.8***	***74.0***	***-13.2***
V	14412.000	54.2	33	40.0	61.2	74.0	-12.8

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.

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Mode: TX-Channel 39 with adaptor Ten Pao

Table 6

Radiated Emission Data

Polari-zation	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)
H	2441.000	102.0	33	29.4	24	74.4	94.0	-19.6
V	***4882.000***	***62.6***	***33***	***34.9***	***24***	***40.5***	***54.0***	***-13.5***
V	***7323.000***	***47.4***	***33***	***37.9***	***24***	***28.3***	***54.0***	***-25.7***
V	9764.000	48.9	33	40.4	24	32.3	54.0	-21.7
V	***12205.000***	***53.4***	***33***	***40.5***	***24***	***36.9***	***54.0***	***-17.1***
V	14646.000	56.1	33	38.4	24	37.5	54.0	-16.5

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	2441.000	102.0	33	29.4	98.4	114.0	-15.6
V	***4882.000***	***62.6***	***33***	***34.9***	***64.5***	***74.0***	***-9.5***
V	***7323.000***	***47.4***	***33***	***37.9***	***52.3***	***74.0***	***-21.7***
V	9764.000	48.9	33	40.4	56.3	74.0	-17.7
V	***12205.000***	***53.4***	***33***	***40.5***	***60.9***	***74.0***	***-13.1***
V	14646.000	56.1	33	38.4	61.5	74.0	-12.5

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. 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 79 with adaptor Ten Pao

Table 7

Radiated Emission Data

Polari-zation	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)
H	2480.000	100.5	33	29.4	24	72.9	94.0	-21.1
V	***4960.000***	***61.3***	***33***	***34.9***	***24***	***39.2***	***54.0***	***-14.8***
V	***7440.000***	***47.8***	***33***	***37.9***	***24***	***28.7***	***54.0***	***-25.3***
V	9920.000	48.8	33	40.4	24	32.2	54.0	-21.8
V	***12400.000***	***53.4***	***33***	***40.5***	***24***	***36.9***	***54.0***	***-17.1***
V	14880.000	56.0	33	38.4	24	37.4	54.0	-16.6

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	2480.000	100.5	33	29.4	96.9	114.0	-17.1
V	***4960.000***	***61.3***	***33***	***34.9***	***63.2***	***74.0***	***-10.8***
V	***7440.000***	***47.8***	***33***	***37.9***	***52.7***	***74.0***	***-21.3***
V	9920.000	48.8	33	40.4	56.2	74.0	-17.8
V	***12400.000***	***53.4***	***33***	***40.5***	***60.9***	***74.0***	***-13.1***
V	14880.000	56.0	33	38.4	61.4	74.0	-12.6

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.

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Mode: Talk with adaptor Ten Pao

Table 8

Radiated Emission Data

Polarization	Frequency (MHz)	Reading (dBµV)	Pre-amp (dB)	Antenna Factor (dB)	Net at 3m (dBµV/m)	Limit at 3m (dBµV/m)	Margin (dB)
V	52.345	36.1	16	11.0	31.1	40.0	-8.9
V	***128.233***	***31.8***	***16***	***14.0***	***29.8***	***43.5***	***-13.7***
V	206.345	41.1	16	17.0	42.1	43.5	-1.4
H	290.345	32.8	16	22.0	38.8	46.0	-7.2
H	312.876	37.2	16	23.0	44.2	46.0	-1.8
H	336.234	32.9	16	24.0	40.9	46.0	-5.1
H	414.567	32.9	16	25.0	41.9	46.0	-4.1
V	518.568	31.3	16	27.0	42.3	46.0	-3.7
V	726.234	29.1	16	30.0	43.1	46.0	-2.9
H	782.144	27.2	16	31.0	42.2	46.0	-3.8

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.

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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

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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.

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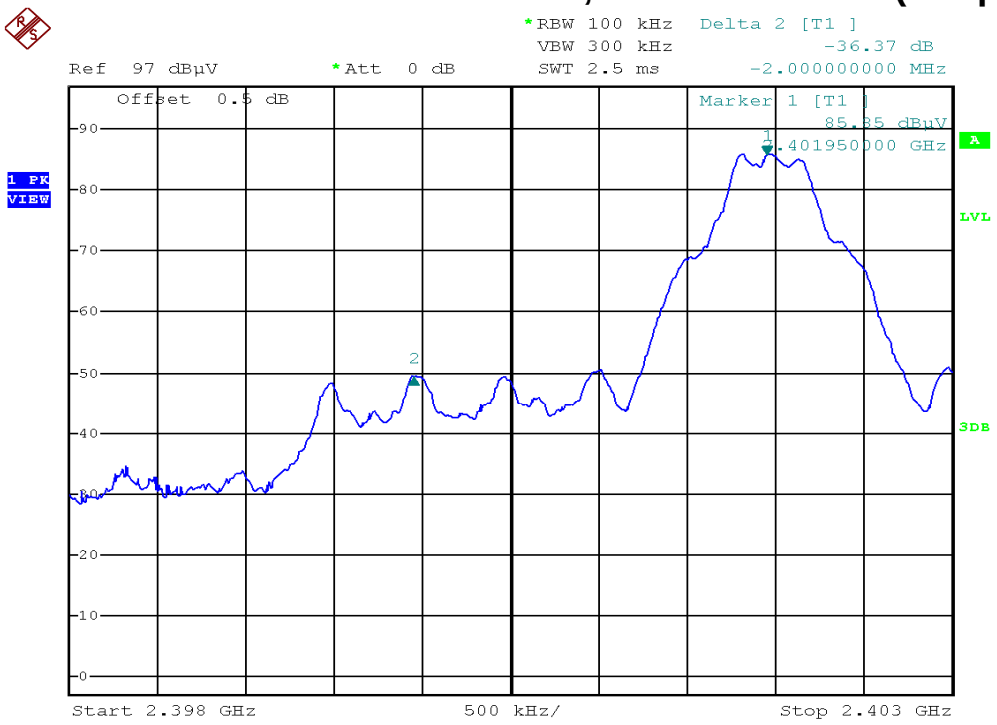
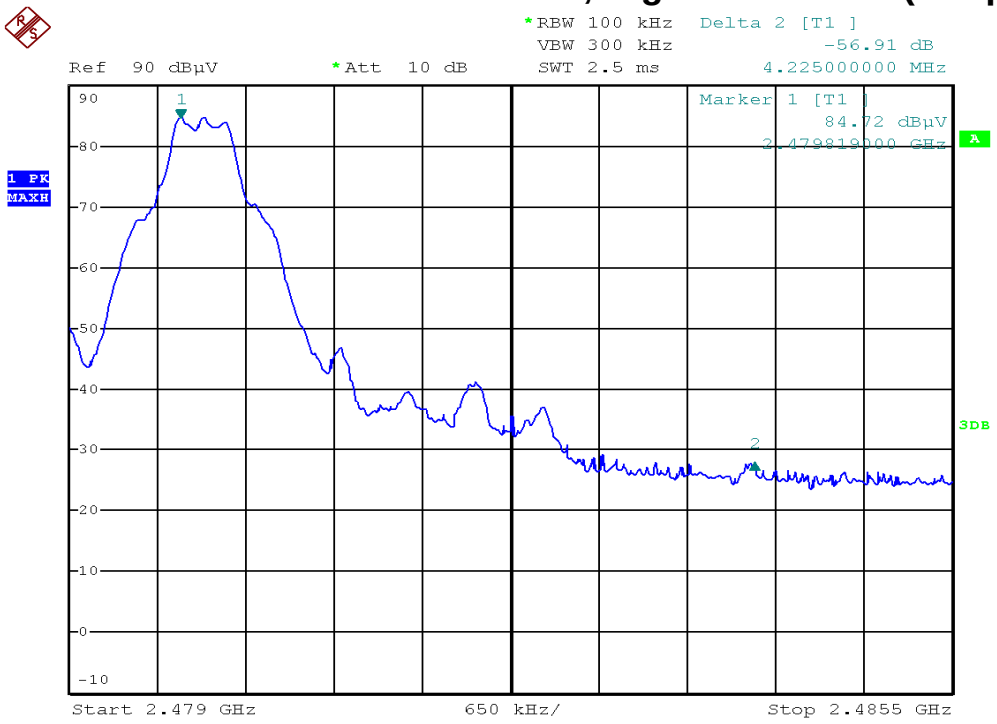
Base unit with Bluetooth Portion, Lowest channel (Adaptor Ruijing)



Base unit with Bluetooth Portion, Highest channel (Adaptor Ruijing)



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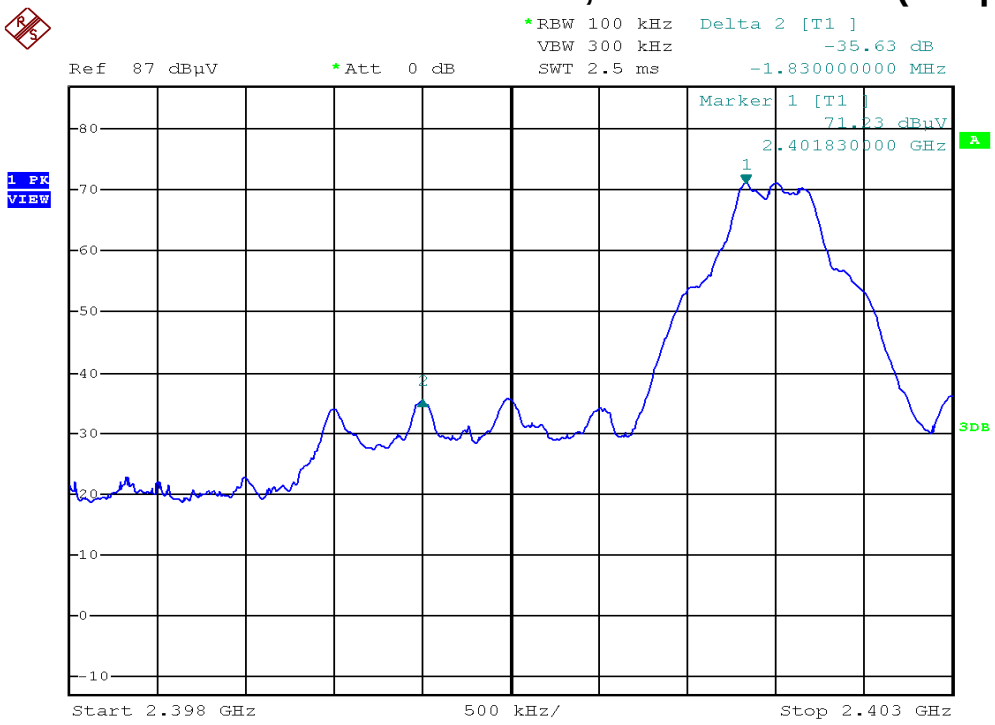
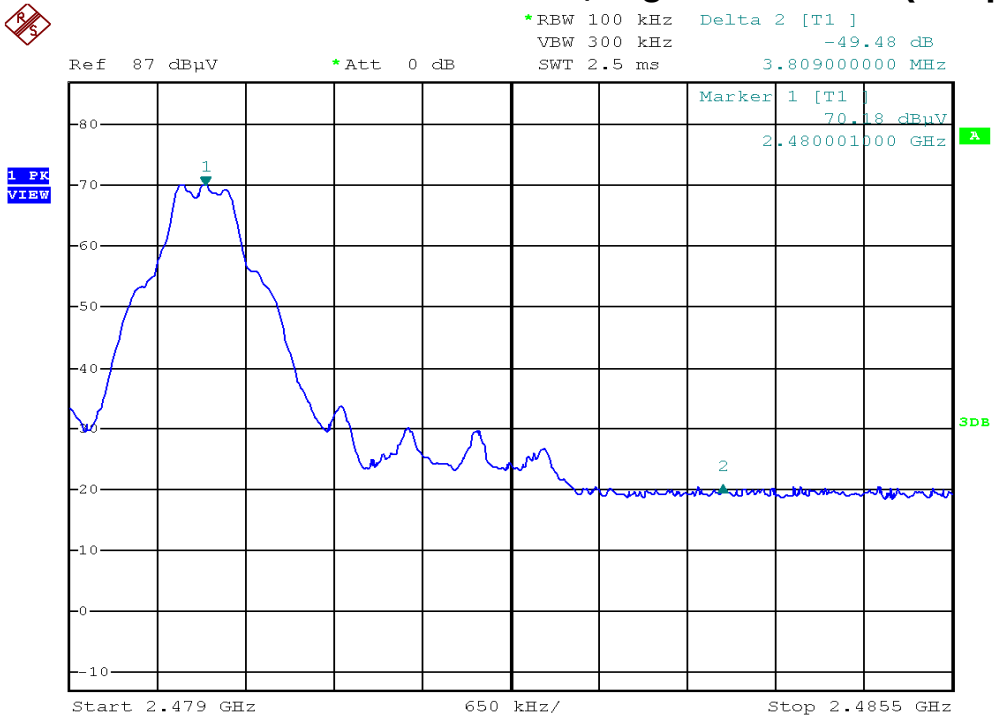
Base unit with Bluetooth Portion, Lowest channel (Adaptor Ten Pao)



Base unit with Bluetooth Portion, Highest channel (Adaptor Ten Pao)



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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:

Channel	Fundamental Emission (dBµV/m)	Delta from the Plot (dB)	Resultant Field Strength (dBµV/m)	Average Limit (dBµV/m)	Margin (dB)
Lowest(Ruijing)	77.1	36.37	40.73	54	-13.27
Highest(Ruijing)	72.5	56.91	15.59	54	-38.41
Lowest(TenPao)	77.5	35.63	41.87	54	-12.13
Highest(TenPao)	72.9	49.48	23.42	54	-30.58

Channel	Fundamental Emission (dBµV/m)	Delta from the Plot (dB)	Resultant Field Strength (dBµV/m)	Peak Limit (dBµV/m)	Margin (dB)
Lowest(Ruijing)	101.1	36.37	64.73	74	-9.27
Highest(Ruijing)	96.5	56.91	39.59	74	-34.41
Lowest(TenPao)	101.5	35.63	65.87	74	-8.13
Highest(TenPao)	96.9	49.48	47.42	74	-26.58

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.

4.4.1 AC Power Line Conducted Emission Configuration Photograph

Worst Case Line-Conducted Configuration
at

0.375 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.

Adaptor Ruijing: Passed by 4.13 dB margin compared with average limit

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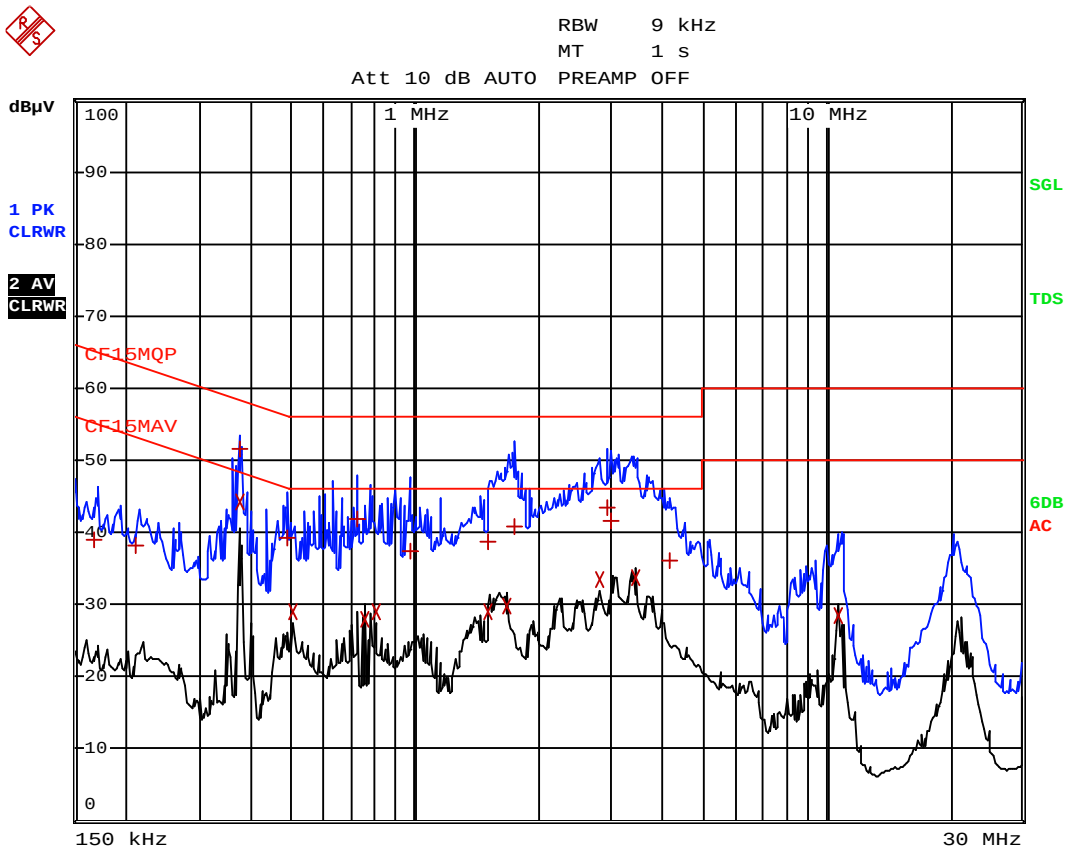
Worst Case: Talk with adaptor Ruijing



Date: 17.SEP.2014 05:47:25

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Worst Case: Talk with adaptor Ruijing

EDIT PEAK LIST (Final Measurement Results)

Trace1: CF15MQP
Trace2: CF15MAV
Trace3: ---

	TRACE	FREQUENCY	LEVEL dBµV		DELTA LIMIT dB
1	Quasi Peak	168 kHz	39.05	N	-26.00
1	Quasi Peak	213 kHz	38.08	N	-25.00
1	Quasi Peak	375 kHz	51.62	N	-6.76
2	CISPR Average	375 kHz	44.25	N	-4.13
1	Quasi Peak	487.5 kHz	39.11	N	-17.09
2	CISPR Average	505.5 kHz	29.01	N	-16.98
1	Quasi Peak	721.5 kHz	41.96	N	-14.03
2	CISPR Average	753 kHz	28.01	N	-17.98
2	CISPR Average	802.5 kHz	29.12	N	-16.87
1	Quasi Peak	973.5 kHz	37.40	N	-18.59
2	CISPR Average	1.5 MHz	29.12	N	-16.87
1	Quasi Peak	1.5045 MHz	38.71	L1	-17.28
2	CISPR Average	1.6755 MHz	29.74	N	-16.25
1	Quasi Peak	1.743 MHz	40.80	N	-15.19
2	CISPR Average	2.814 MHz	33.33	N	-12.66
1	Quasi Peak	2.9535 MHz	43.53	N	-12.47
1	Quasi Peak	2.994 MHz	41.69	N	-14.30
2	CISPR Average	3.4395 MHz	33.85	L1	-12.14
1	Quasi Peak	4.164 MHz	35.96	N	-20.03
2	CISPR Average	10.6935 MHz	28.59	N	-21.40

Date: 17.SEP.2014 05:47:45

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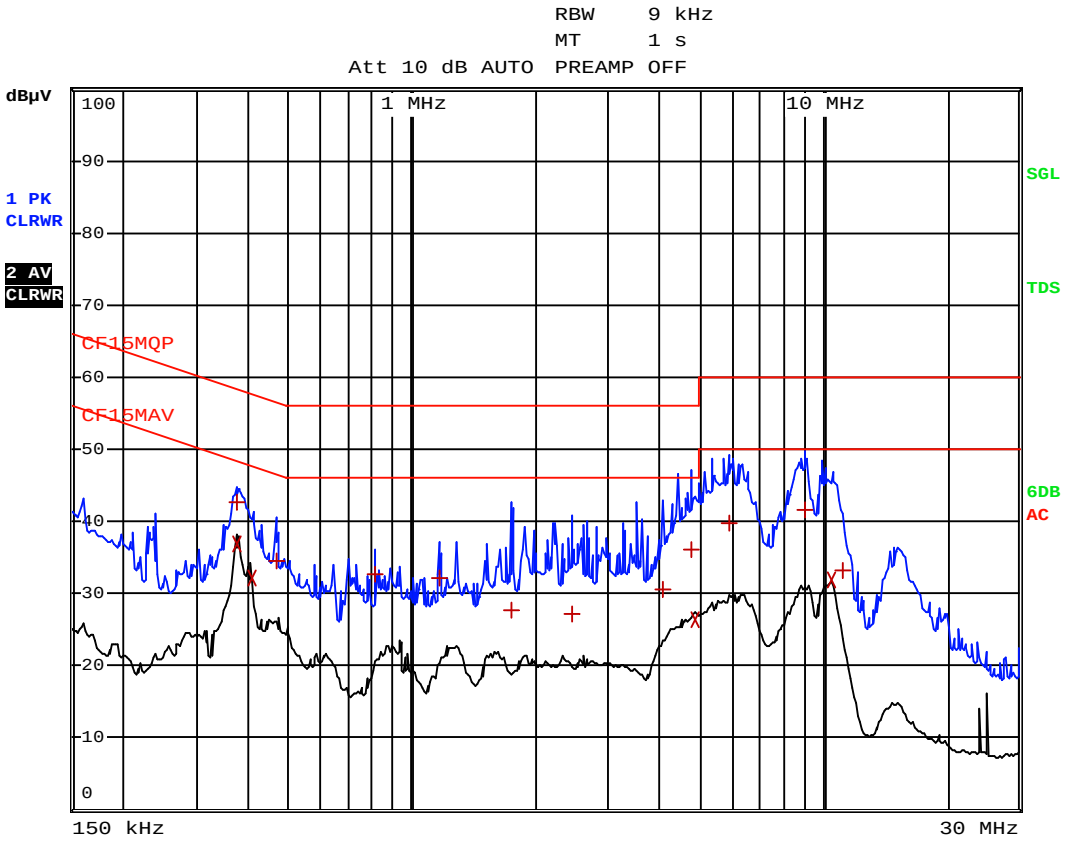
Worst Case: Talk with adaptor Ten Pao



Date: 17.SEP.2014 05:39:29

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Worst Case: Talk with adaptor Ten Pao

EDIT PEAK LIST (Final Measurement Results)

Trace1: CF15MQP
Trace2: CF15MAV
Trace3: ---

	TRACE	FREQUENCY	LEVEL dBµV		DELTA LIMIT dB
1	Quasi Peak	375 kHz	42.67	L1	-15.71
2	CISPR Average	375 kHz	36.77	L1	-11.61
2	CISPR Average	406.5 kHz	32.27	L1	-15.44
1	Quasi Peak	465 kHz	34.46	L1	-22.14
1	Quasi Peak	816 kHz	32.78	N	-23.21
1	Quasi Peak	1.167 MHz	32.19	N	-23.80
1	Quasi Peak	1.7565 MHz	27.69	N	-28.30
1	Quasi Peak	2.4675 MHz	27.15	L1	-28.84
1	Quasi Peak	4.101 MHz	30.49	L1	-25.50
1	Quasi Peak	4.794 MHz	36.18	L1	-19.81
2	CISPR Average	4.902 MHz	26.29	L1	-19.70
1	Quasi Peak	5.9415 MHz	39.87	L1	-20.12
1	Quasi Peak	9.06 MHz	41.50	L1	-18.49
2	CISPR Average	10.536 MHz	31.78	N	-18.21
1	Quasi Peak	11.1345 MHz	33.23	N	-26.76

Date: 17.SEP.2014 05:40:01

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EXHIBIT 5
EQUIPMENT LIST

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5.0 **Equipment List**

1) Radiated Emissions Test

Equipment	Biconical Antenna	Log Periodic Antenna	Spectrum Analyzer
Registration No.	EW-0571	EW-0446	EW-2188
Manufacturer	EMCO	EMCO	AGILENTTECH
Model No.	3104C	3146	E4407B
Calibration Date	Nov. 01, 2013	Apr. 30, 2013	Apr. 16, 2014
Calibration Due Date	May 01, 2015	Oct. 30, 2014	Apr. 16, 2015

Equipment	EMI Test Receiver	Broad-Band Horn Antenna	Double Ridged Guide Antenna (1GHz - 18GHz)
Registration No.	EW-2666	EW-1679	EW-1133
Manufacturer	R&S	SCHWARZBECK	EMCO
Model No.	ESCI7	BBHA9170	3115
Calibration Date	Jun. 20, 2013	Jun. 05, 2014	Apr. 30, 2014
Calibration Due Date	Dec. 20, 2014	Jun. 05, 2015	Oct. 30, 2015

2) Conducted Emissions Test

Equipment	EMI Test Receiver	LISN
Registration No.	EW-2251	EW-2501
Manufacturer	R&S	R&S
Model No.	ESCI	ENV-216
Calibration Date	Nov. 20, 2013	Dec. 25, 2013
Calibration Due Date	Nov. 20, 2014	Nov. 30, 2014

3) Bandedge Measurement Test

Equipment	Spectrum Analyzer
Registration No.	EW-2253
Manufacturer	R&S
Model No.	FSP40
Calibration Date	May. 08, 2014
Calibration Due Date	May. 08, 2015

END OF TEST REPORT

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