



June 29, 2009

Kiss Communications Technology Co., Ltd.
Room 13A20, 14F, New Asia International Digital Center,
No.55 Xi Di Er Road, Li Wan District,
Guangzhou, Guangdong, China.

Dear KK Lee:

Enclosed you will find your file copy of a Part 15 Certification (FCC ID: TJ7BTK-308).

For your reference, TCB will normally take another 20 days for reviewing the report. Approval will then be granted when no query is sorted.

Please contact me if you have any questions regarding the enclosed material.

Sincerely,

A handwritten signature in black ink, appearing to read "Shawn Xing", written in a cursive style.

Shawn Xing
Assistant Manager

Enclosure


Kiss Communications Technology Co., Ltd.

Application
For
Certification
(FCC ID: TJ7BTK-308)

Stereo Bluetooth Headset

BTK-308

2.4GHz Transceiver



SZ09060075-1

Louisa Lu

June 29, 2009

- The test results reported in this test report shall refer only to the sample actually tested and shall not refer or be deemed to refer to bulk from which such a sample may be said to have been obtained.
- This report is for the exclusive use of Intertek's Client and is provided pursuant to the agreement between Intertek and its Client. Intertek's responsibility and liability are limited to the terms and conditions of the agreement. Intertek assumes no liability to any party, other than to the Client in accordance with the agreement, for any loss, expense or damage occasioned by the use of this report. Only the Client is authorized to copy or distribute this report. Any use of the Intertek name or one of its marks for the sale or advertisement of the tested material, product or service must first be approved in writing by Intertek. The observations and test results referenced from this report are relevant only to the sample tested. This report by itself does not imply that the material, product, or service is or has ever been under an Intertek certification program.
- For Terms And Conditions of the services, it can be provided upon request.
- The evaluation data of the report will be kept for 3 years from the date of issuance.

TRF no.: FCC 15C_TXa

FCC ID: TJ7BTK-308

Intertek Testing Services Shenzhen Ltd. Kejiyuan Branch

6F, D Block, Huahan Building, Langshan Road, Nanshan District, Shenzhen, P. R. China

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INTERTEK TESTING SERVICES

LIST OF EXHIBITS

INTRODUCTION

<i>EXHIBIT 1:</i>	General Description
<i>EXHIBIT 2:</i>	System Test Configuration
<i>EXHIBIT 3:</i>	Emission Results
<i>EXHIBIT 4:</i>	Equipment Photographs
<i>EXHIBIT 5:</i>	Product Labelling
<i>EXHIBIT 6:</i>	Technical Specifications
<i>EXHIBIT 7:</i>	Instruction Manual
<i>EXHIBIT 8:</i>	Miscellaneous Information
<i>EXHIBIT 9:</i>	Confidentiality Request
<i>EXHIBIT 10:</i>	Test Equipment List

INTERTEK TESTING SERVICES

MEASUREMENT/TECHNICAL REPORT

**Kiss Communications Technology Co., Ltd. - MODEL: BTK-308
ADDITIONAL MODEL: BTK-309 / BTK-317 / BTK-318 / BTK-319 / K1 / K2 /
K3 / K5 / K6 / K7 / K8 / K9 / K10**

FCC ID: TJ7BTK-308

June 29, 2009

This report concerns (check one:) Original Grant Class II Change

Equipment Type: DXX - Part 15 Low Power Communication Device Transmitter

Deferred grant requested per 47 CFR 0.457(d)(1)(ii)? Yes No

If yes, defer until: _____
date

Company Name agrees to notify the Commission by: _____
date

of the intended date of announcement of the product so that the grant can be issued on that date.

Transition Rules Request per 15.37? Yes No

If no, assumed Part 15, Subpart C for intentional radiator – the new 47 CFR [10-01-08 Edition] provision.

Report prepared by:



Shawn Xing
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Kejiyuan Branch
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INTERTEK TESTING SERVICES

Table of Contents

1.0 <u>General Description</u>	2
1.1 Product Description	2
1.2 Related Submittal(s) Grants	2
1.3 Test Methodology	3
1.4 Test Facility	3
2.0 <u>System Test Configuration</u>	5
2.1 Justification	5
2.2 EUT Exercising Software	5
2.3 Special Accessories	5
2.4 Equipment Modification	5
2.5 Measurement Uncertainty	6
2.6 Support Equipment List and Description	6
3.0 <u>Emission Results</u>	8
3.1 Field Strength Calculation	9
3.2 Radiated Emission Configuration Photograph	10
3.3 Radiated Emission Data	11
4.0 <u>Equipment Photographs</u>	16
5.0 <u>Product Labelling</u>	18
6.0 <u>Technical Specifications</u>	20
7.0 <u>Instruction Manual</u>	22
8.0 <u>Miscellaneous Information</u>	24
8.1 Measured Bandwidth	25
8.2 Bandedge Plot	26
8.3 Discussion of Pulse Desensitization	27
8.4 Calculation of Average Factor	28
8.5 Emissions Test Procedures	29
9.0 <u>Confidentiality Request</u>	32
10.0 <u>Test Equipment List</u>	34

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List of attached file

Exhibit type	File Description	Filename
Test Report	Test Report	report.pdf
Test Report	20dB BW Plot	bw.pdf
Test Report	Bandedge Plot	bandedge.pdf
Test Setup Photo	Radiated Emission	radiated photos.pdf
External Photo	External Photo	external photos.pdf
Internal Photo	Internal Photo	internal photos.pdf
Block Diagram	Block Diagram	block.pdf
Schematics	Circuit Diagram	circuit.pdf
Operation Description	Technical Description	descri.pdf
ID Label/Location	Label Artwork and Location	label.pdf
User Manual	User Manual	manual.pdf
Cover Letter	Letter of Agency	agency.pdf
Cover Letter	Confidentiality Request	confidentiality.pdf
Equipment List	Test Equipment List	equipment list.pdf

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EXHIBIT 1

GENERAL DESCRIPTION

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1.0 General Description

1.1 Product Description

The Equipment Under Test (EUT) is a 2.4GHz Stereo Bluetooth Headset with 79 channels operate at 2402MHz to 2480MHz and the channel separation is 1MHz. The EUT can communicate with other Bluetooth devices such as mobile phone. It's powered by a 3.7Vdc rechargeable battery.

The Models BTK-309 / BTK-317 / BTK-318 / BTK-319 / K1 / K2 / K3 / K5 / K6 / K7 / K8 / K9 / K10 are the same as the tested Model: BTK-308 in hardware and software aspect. The only differences are the packing accessories and model no. for trading purpose.

Antenna Type: Integral PCB Antenna

For electronic filing, the brief circuit description is saved with filename: descri.pdf.

1.2 Related Submittal(s) Grants

The receiver for this transmitter is exempted from the Part 15 technical rules per 15.101(b)

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1.3 Test Methodology

Radiated emission measurements were performed according to the procedures in ANSI C63.4 (2003). Radiated emission measurement was performed in semi-anechoic chamber. Preliminary scans were performed in the semi-anechoic chamber only to determine the worst case modes. All radiated tests were performed at an antenna to EUT distance of 3 meters, unless stated otherwise in the "**Justification Section**" of this Application.

1.4 Test Facility

The Semi-Anechoic chamber used to collect the radiated data is **Intertek Testing Services Shenzhen Ltd. Kejiyuan Branch** and located at 6F, Block D, Huahan Building, Langshan Road, Nanshan District, Shenzhen, P. R. China. This test facility and site measurement data have been fully placed on file with the FCC.

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EXHIBIT 2
SYSTEM TEST CONFIGURATION

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2.0 System Test Configuration

2.1 Justification

The system was configured for testing in a typical fashion (as a customer would normally use it), and in the confines as outlined in ANSI C63.4 (2003).

The EUT was powered by a 3.7Vdc rechargeable battery during test.

For maximizing emissions below 30 MHz, the EUT was rotated through 360°, the centre of the loop antenna was placed 1 meter above the ground, and the antenna polarization was changed. For maximizing emission at and above 30 MHz, the EUT was rotated through 360°, the antenna height was varied from 1 meter to 4 meters above the ground plane, and the antenna polarization was changed. This step by step procedure for maximizing emissions led to the data report in Exhibit 3.0.

The unit was operated standalone and placed in the centre of the turntable.

The equipment under test (EUT) was configured for testing in a typical fashion (as a customer would normally use it). The EUT was placed on a turn table, which enabled the engineer to maximize emissions through its placement in the three orthogonal axes.

2.2 EUT Exercising Software

The EUT exercise program (provided by client) used during radiated testing was designed to exercise the various system components in a manner similar to a typical use.

The parameters of test software setting:

During the test, Channel and power controlling software provided by the applicant was used to control the operating channel as well as the output power level.

2.3 Special Accessories

No special accessories used.

2.4 Equipment Modification

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Any modifications installed previous to testing by Kiss Communications Technology Co., Ltd. will be incorporated in each production model sold / leased in the United States.

No modifications were installed by Intertek Testing Services Shenzhen Ltd. Kejiyuan Branch.

2.5 Measurement Uncertainty

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

2.6 Support Equipment List and Description

This product was tested in the following configuration:

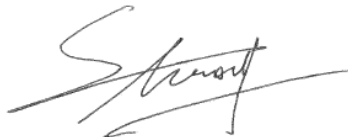
Refer List:

Description	Manufacturer	Model No.
Earphone	---	Length 120cm

All the items listed under section 2.0 of this report are

Confirmed by:

Shawn Xing
Assistant Manager
Intertek Testing Services Shenzhen Ltd. Kejiyuan Branch
Agent for Kiss Communications Technology Co., Ltd.



Signature

June 29, 2009

Date

INTERTEK TESTING SERVICES

EXHIBIT 3
EMISSION RESULTS

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3.0 Emission Results

Data is included 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.

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3.1 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 dB μ V/m
- RA = Receiver Amplitude (including preamplifier) in dB μ 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:

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

Assume a receiver reading of 62.0 dB μ 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 dB μ V/m. This value in dB μ V/m was converted to its corresponding level in μ V/m.

RA = 62.0 dB μ V
AF = 7.4 dB
CF = 1.6 dB
AG = 29.0 dB
PD = 0 dB

AV = -10 dB

$$FS = 62 + 7.4 + 1.6 - 29 + 0 + (-10) = 32 \text{ dB}\mu\text{V/m}$$

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

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3.2 Radiated Emission Configuration Photograph

Worst Case Radiated Emission
at
4804.000 MHz

For electronic filing, the worst case radiated emission configuration photograph is saved with filename: radiated photos. pdf.

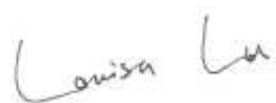
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3.3 Radiated Emission Data

The data on the following page lists the significant emission frequencies, the limit and the margin of compliance. Numbers with a minus sign are below the limit.

Judgement: Passed by 10.2 dB

TEST PERSONNEL:



Signature

Louisa Lu, Engineer

Typed/Printed Name

June 29, 2009

Date

INTERTEK TESTING SERVICES

Company: Kiss Communications Technology Co., Ltd.
 Date of Test: June 29, 2009
 Model: BTK-308
 Worst Case Operating Mode: Transmit

Table 1-2
Radiated Emissions

(2402MHz)

Polarization	Frequency (MHz)	Reading (dB μ V)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Average Factor (-dB)	Net at 3m (dB μ V/m)	Limit at 3m (dB μ V/m)	Margin (dB)
Vertical	2402.000	105.3	36.7	28.5	0.0	97.1	114.0	-16.9
Horizontal	2402.000	105.9	36.7	28.5	0.0	97.7	114.0	-16.3
Vertical	4804.000	66.8	36.1	33.1	0.0	63.8	74.0	-10.2
Horizontal	4804.000	62.2	36.1	33.1	0.0	59.2	74.0	-14.8
Vertical	7206.000	40.7	36.2	37.8	0.0	42.3	74.0	-31.7

Polarization	Frequency (MHz)	Reading (dB μ V)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Average Factor (-dB)	Net at 3m (dB μ V/m)	Limit at 3m (dB μ V/m)	Margin (dB)
Vertical	2402.000	105.3	36.7	28.5	43.9	53.2	94.0	-40.8
Horizontal	2402.000	105.9	36.7	28.5	43.9	53.8	94.0	-40.2
Vertical	4804.000	66.8	36.1	33.1	43.9	19.9	54.0	-34.1
Horizontal	4804.000	62.2	36.1	33.1	43.9	15.3	54.0	-38.7

- Notes: 1. Peak Detector Data unless otherwise stated.
2. All measurements were made at 3 meter. Harmonic 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 harmonic 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.

Test Engineer: Louisa Lu

INTERTEK TESTING SERVICES

Company: Kiss Communications Technology Co., Ltd.

Date of Test: June 29, 2009

Model: BTK-308

Worst Case Operating Mode: Transmit

Table 3-4
Radiated Emissions

(2441MHz)

Polarization	Frequency (MHz)	Reading (dB μ V)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Average Factor (-dB)	Net at 3m (dB μ V/m)	Limit at 3m (dB μ V/m)	Margin (dB)
Vertical	2441.000	104.9	36.7	28.5	0.0	96.7	114.0	-17.3
Horizontal	2441.000	105.8	36.7	28.5	0.0	97.6	114.0	-16.4
Vertical	4882.000	66.7	36.1	33.1	0.0	63.7	74.0	-10.3
Horizontal	4882.000	61.9	36.1	33.1	0.0	58.9	74.0	-15.1

Polarization	Frequency (MHz)	Reading (dB μ V)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Average Factor (-dB)	Net at 3m (dB μ V/m)	Limit at 3m (dB μ V/m)	Margin (dB)
Vertical	2441.000	104.9	36.7	28.5	43.9	52.8	94.0	-41.2
Horizontal	2441.000	105.8	36.7	28.5	43.9	53.7	94.0	-40.3
Vertical	4882.000	66.7	36.1	33.1	43.9	19.8	54.0	-34.2
Horizontal	4882.000	61.9	36.1	33.1	43.9	15.0	54.0	-39.0

- Notes: 1. Peak Detector Data unless otherwise stated.
2. All measurements were made at 3 meter. Harmonic 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 harmonic 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.

Test Engineer: Louisa Lu

INTERTEK TESTING SERVICES

Company: Kiss Communications Technology Co., Ltd.
 Date of Test: June 29, 2009
 Model: BTK-308
 Worst Case Operating Mode: Transmit

Table 5-6
Radiated Emissions

(2480MHz)

Polarization	Frequency (MHz)	Reading (dB μ V)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Average Factor (-dB)	Net at 3m (dB μ V/m)	Limit at 3m (dB μ V/m)	Margin (dB)
Vertical	2480.000	101.8	36.7	28.6	0.0	93.7	114.0	-20.3
Horizontal	2480.000	104.1	36.7	28.6	0.0	96.0	114.0	-18.0
Vertical	4960.000	64.5	36.1	33.4	0.0	61.8	74.0	-12.2
Horizontal	4960.000	62.4	36.1	33.4	0.0	59.7	74.0	-14.3

Polarization	Frequency (MHz)	Reading (dB μ V)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Average Factor (-dB)	Net at 3m (dB μ V/m)	Limit at 3m (dB μ V/m)	Margin (dB)
Vertical	2480.000	101.8	36.7	28.6	43.9	49.8	94.0	-44.2
Horizontal	2480.000	104.1	36.7	28.6	43.9	52.1	94.0	-41.9
Vertical	4960.000	64.5	36.1	33.4	43.9	17.9	54.0	-36.1
Horizontal	4960.000	62.4	36.1	33.4	43.9	15.8	54.0	-38.2

- Notes:
1. Peak Detector Data unless otherwise stated.
 2. All measurements were made at 3 meter. Harmonic 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 harmonic 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.

Test Engineer: Louisa Lu

TRF no.: FCC 15C_TXa
 FCC ID: TJ7BTK-308

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EXHIBIT 4
EQUIPMENT PHOTOGRAPHS

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4.0 Equipment Photographs

For electronic filing, the photographs of the tested EUT are saved with filename: external photos.pdf & internal photos.pdf.

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EXHIBIT 5
PRODUCT LABELLING

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5.0 **Product Labelling**

For electronic filing, the label artwork and the label location are saved with filename: label.pdf.

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EXHIBIT 6

TECHNICAL SPECIFICATIONS

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6.0 Technical Specifications

For electronic filing, the block diagram and schematics of the tested EUT are saved with filename: block.pdf and circuit.pdf respectively.

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EXHIBIT 7
INSTRUCTION MANUAL

INTERTEK TESTING SERVICES

7.0 **Instruction Manual**

For electronic filing, a preliminary copy of the Instruction Manual is saved with filename: manual.pdf.

This manual will be provided to the end-user with each unit sold/leased in the United States.

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EXHIBIT 8

MISCELLANEOUS INFORMATION

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8.0 **Miscellaneous Information**

This miscellaneous information includes details of the measured bandwidth, bandedge, the test procedure and calculation of factor such as pulse desensitization and averaging factor.

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8.1 Measured Bandwidth

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

Figure 8.1 Bandwidth

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8.2 Bandedge Plot

For electronic filing, the plot shows the fundamental emission when modulated is saved with filename: be.pdf. From the plot, the field strength of any emissions outside of the specified frequency band are attenuated to the general radiated emission limits in section 15.209. It fulfil the requirement of 15.249(d).

Peak Measurement

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

(For 2400MHz)

$$\begin{aligned}\text{Resultant field strength} &= \text{Fundamental emissions (peak value)} - \text{delta from the} \\ &\quad \text{bandedge plot} \\ &= 97.7\text{dB}\mu\text{v/m} - 44.1\text{dB} \\ &= 53.6\text{dB}\mu\text{v/m}\end{aligned}$$

(For 2483.5MHz)

$$\begin{aligned}\text{Resultant field strength} &= \text{Fundamental emissions (peak value)} - \text{delta from} \\ &\quad \text{the bandedge plot} \\ &= 96.0\text{dB}\mu\text{v/m} - 54.9\text{dB} \\ &= 41.1\text{dB}\mu\text{v/m}\end{aligned}$$

The resultant field strength meets the general radiated emission limit in section 15.209, which does not exceed 74 dB μ v/m (Peak Limit) and 54dB μ v/m (Average Limit).

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8.3 Discussion of Pulse Desensitization

The determination of pulse desensitivity was made in accordance with Hewlett Packard Application Note 150-2, *Spectrum Analysis ... Pulsed RF*.

The effective period (T_{eff}) was approximately 625 μs for a digital "1" bit based on the Bluetooth specification. With a resolution bandwidth (3 dB) of 1MHz, the pulse desensitivity factor was 0 dB.

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8.4 Calculation of Average Factor

Based on the Bluetooth Specification Version 2.0 + EDR, transmitter ON time is independent of the packet type (DH1, DH3 and DH5) and packet length (single-slot and multi-slot). The maximum transmitter ON time for the Bluetooth is 625 μ s.

Each TX and RX time slot is 625 μ s in length. A TDD scheme is used where master and slave alternately transmit. For one period for a pseudo-random hopping through all 79 RF channels, it takes: $79 \times (0.625 \times 2) \text{ ms} = 98.75 \text{ ms}$.

Therefore,

$$\begin{aligned}\text{Average Factor (AF) of Bluetooth in dB} &= 20 \log_{10} (0.625/98.75) \text{ dB} \\ &= 20 \log_{10} (0.00633) \text{ dB} \\ &= - 43.9 \text{ dB}\end{aligned}$$

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8.5 Emissions Test Procedures

The following is a description of the test procedure used by Intertek Testing Services in the measurements of transmitters operating under Part 15, Subpart C rules.

The test set-up and procedures described below are designed to meet the requirements of ANSI C63.4 - 2003.

The transmitting equipment under test (EUT) is placed on a wooden turntable which is four feet in diameter and approximately one meter in height above the ground plane. During the radiated emissions test, the turntable is rotated and any cables leaving the EUT are manipulated to find the configuration resulting in maximum emissions. The EUT is adjusted through all three orthogonal axes to obtain maximum emission levels. The antenna height and polarization are varied during the testing to search for maximum signal levels.

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.

The frequency range scanned is 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 40 GHz, whichever is lower. For line conducted emissions, the range scanned is 150 kHz to 30 MHz.

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8.5 Emissions Test Procedures (cont'd)

The EUT is warmed up for 15 minutes prior to the test.

AC power to the unit is varied from 85% to 115% nominal and variation in the fundamental emission field strength is recorded. If battery powered, a new, fully charged battery is used.

Conducted measurements are made as described in ANSI C63.4 - 2003.

The IF bandwidth used for measurement of radiated signal strength was 10 kHz for emission below 30 MHz and 120 kHz for emission from 30 MHz to 1000 MHz. Where pulsed transmissions of short enough pulse duration warrant, a greater bandwidth is selected according to the recommendations of Hewlett Packard Application Note 150-2. Above 1000 MHz, a resolution bandwidth of 1 MHz is used.

Transmitter measurements are normally conducted at a measurement distance of three meters. However, to assure low enough noise floor in the restricted bands and above 1 GHz, signals are acquired at a distance of one meter or less. All measurements are extrapolated to three meters using inverse scaling, but those measurements taken at a closer distance are so marked.

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EXHIBIT 9

CONFIDENTIALITY REQUEST

INTERTEK TESTING SERVICES

9.0 **Confidentiality Request**

For electronic filing, the confidentiality request of the tested EUT is saved with filename: confidentiality.pdf.

INTERTEK TESTING SERVICES

EXHIBIT 10

TEST EQUIPMENT LIST

INTERTEK TESTING SERVICES

10.0 Test Equipment List

For electronic filing, the test equipment list of the tested EUT is saved with filename: equipment list.pdf.