

SHANTOU CHENGHAI GUANHUA IMPORT AND EXPORT TRADE CO., LTD**Application For Certification
FCC ID: 2ACUT-482015017-M68****Aircraft Series / UFO Series****Model: 482015017
Additional models: See Page 2****Brand Name: N/A****2.4GHz Transmitter****Report No.: GZHH00176566-001**

We hereby certify that the sample of the above item is considered to comply with the requirements of FCC Part 15, Subpart C for Intentional Radiator, mention 47 CFR [10-1-14]

Prepared and Checked by:**Approved by:****Sign on file**

Abel Zhou
Assistant Engineer

Andy Yan
Senior Project Engineer
Date: July 29, 2015

- 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.
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- 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_TX_b

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INTERTEK TESTING SERVICES

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MEASUREMENT/TECHNICAL REPORT

SHANTOU CHENGHAI GUANHUA IMPORT AND EXPORT TRADE CO., LTD

Model: 482015017

FCC ID: 2ACUT-482015017-M68

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

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

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 [10-1-14 Edition] provision.

Report prepared by:

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List of attached file

Exhibit type	File Description	Filename
Test Report	Test Report	report.pdf
Test Setup Photo	Radiated Emission	radiated photos.pdf
Test Report	Bandedge Plot	bandedge.pdf
Test Report	20dB BW Plot	bw.pdf
Test Report	Timing Plot	af.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	Confidentiality Letter	request.pdf
Cover Letter	Letter of Agency	agency.pdf

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EXHIBIT 1

GENERAL DESCRIPTION

TRF No.: FCC 15C_TX_b
FCC ID: 2ACUT-482015017-M68
Report No.: GZHH00176566-001

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1.0 General Description

1.1 Product Description

The Equipment under Test (EUT) is a Control unit for the Aircraft Series / UFO Series model: 482015017 operating at 2.4GHz band. It is powered by DC 6V (4 x 1.5V AA batteries).

The Models, 05077124, 482015003, 507227, M19, M10N, M12, M2, M3, M5, M6, M7, M9, M10, M11, M12, M32, M63, M68, M80, MH6072002, MH6072003, MH6072004, MH6072007, 339, 340, 342, 350, 360, 362, 365, 388, 389, 6010, 6021, 6015, 6023, 6032, MH4514035, MH4514060, MH4514063, MH4514089, MH4514078, MH4556089, MH4556060 are the same as the Model: 482015017 in hardware and electronic aspect. The difference in appearance and model number serves as marketing strategy.

Antenna Type: Integral antenna

Type of modulation: GFSK modulation

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

1.2 Related Submittal(s) Grants

This is an application for certification of a Controller unit, and corresponding receiver unit associated with this EUT is exempted from the certification.

1.3 Test Methodology

Radiated emission measurements were performed according to the procedures in ANSI C63.4(2009). Radiated Emission measurement was performed in a Semi-anechoic chamber. Preliminary scans were performed in the Semi-anechoic chamber only to determine worst case modes. For each scan, the procedure for maximizing emissions in Appendices D and E were followed. 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 facility used to collect the radiated data is Intertek Testing Services Shenzhen Ltd. Kejiyuan Branch and located at 6F, D Block, 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 (Registration Number: 242492).

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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(2009).

The EUT was powered by new DC 6.0V (4 x 1.5V AA batteries). Only the worst case data was reported.

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 mounted to a plastic stand if necessary and placed on the wooden turntable, which enabled the engineer to maximize emissions through its placement in the three orthogonal axes.

2.2 EUT Exercising Software

There was no special software to exercise the device.

2.3 Special Accessories

No special accessories used.

2.4 Equipment Modification

Any modifications installed previous to testing by SHANTOU CHENGHAI GUANHUA IMPORT AND EXPORT TRADE 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

N/A

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EXHIBIT 3

EMISSION RESULTS

TRF No.: FCC 15C_TX_b
FCC ID: 2ACUT-482015017-M68
Report No.: GZHH00176566-001

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3.0 Emission Results

Data is included worst-case configuration (the configuration which resulted in the highest emission levels).

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3.1 **Radiated Test Results**

A sample calculation, configuration photographs and data tables of the emissions are included.

3.1.1 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 (when specified limit is in average and measurements are made with peak detectors). A sample calculation is included below.

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

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

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:

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

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 net field strength for comparison to the appropriate emission limit is 42 $\text{dB}\mu\text{V}/\text{m}$. This value in $\text{dB}\mu\text{V}/\text{m}$ was converted to its corresponding level in $\mu\text{V}/\text{m}$.

$$RA = 62.0 \text{ dB}\mu\text{V}$$

$$AF = 7.4 \text{ dB}$$

$$CF = 1.6 \text{ dB}$$

$$AG = 29.0 \text{ dB}$$

$$FS = 62 + 7.4 + 1.6 - 29 = 42 \text{ dB}\mu\text{V}/\text{m}$$

$$\text{Level in } \mu\text{V}/\text{m} = \text{Common Antilogarithm } [(42 \text{ dB}\mu\text{V}/\text{m})/20] = 125.9 \mu\text{V}/\text{m}$$

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3.1.2 Radiated Emission Configuration Photograph

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

3.1.3 Radiated Emissions

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.

Worst Case Radiated Emission
at
32.230 MHz

Judgement: Passed by 16.9 dB

TEST PERSONNEL:

Sign on file

Abel Zhou, Assistant Engineer
Typed/Printed Name

July 15, 2015

Date

INTERTEK TESTING SERVICES

Applicant: SHANTOU CHENGHAI GUANHUA IMPORT AND EXPORT TRADE CO., LTD

Date of Test: July 15, 2015

Model: 482015017

Sample: 1/1

Worst Case Operating Mode: Transmit

Table 1

Radiated Emissions

Polarization	Frequency (MHz)	Reading (dB μ V)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dB μ V/m)	Limit at 3m (dB μ V/m)	Margin (dB)
Horizontal	32.230	25.2	20.0	17.9	23.1	40.0	-16.9
Horizontal	254.660	26.0	20.0	16.0	22.0	46.0	-24.0
Horizontal	300.220	20.5	20.0	23.6	24.1	46.0	-21.9
Vertical	30.990	25.3	20.0	17.6	22.9	40.0	-17.1
Vertical	268.055	28.8	20.0	17.2	26.0	46.0	-20.0
Vertical	500.230	31.7	20.0	15.4	27.1	46.0	-18.9

NOTES: 1. Quasi-Peak detector is used except for others stated.
2. All measurements were made at 3 meters. Harmonic emissions not detected at the 3-meter distances were measured at 0.3-meter and an inverse proportional extrapolation was performed to compare the signal level to the 3-meter limit. No other harmonic emissions than those reported were detected at a test distance of 0.3-meter.
3. Negative value in the margin column shows emission below limit.
4. All emissions are below the QP limit.

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3.1.4 Transmitter Spurious Emissions (Radiated)

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.

Worst Case Radiated Emission
at
7335.000 MHz

Judgement: Passed by 1.1 dB

TEST PERSONNEL:

Sign on file

Abel Zhou, Assistant Engineer
Typed/Printed Name

July 15, 2015

Date

INTERTEK TESTING SERVICES

Applicant: SHANTOU CHENGHAI GUANHUA IMPORT AND EXPORT TRADE CO., LTD

Date of Test: July 15, 2015

Model: 482015017

Sample: 1/1

Worst Case Operating Mode: Transmit

Table 2

Radiated Emissions

(2413.000MHz)

Polarization	Frequency (MHz)	Reading (dB μ V)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dB μ V/m)	Peak Limit at 3m (dB μ V/m)	Margin (dB)
Vertical	2413.000	99.5	36.7	28.5	91.3	114.0	-22.7
Vertical	4826.000	64.3	36.7	34.6	62.2	74.0	-11.8
Vertical	7239.000	65.8	36.1	33.1	62.8	74.0	-11.2

Polarization	Frequency (MHz)	Reading (dB μ V)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Average Factor (-dB)	Net at 3m (dB μ V/m)	Average Limit at 3m (dB μ V/m)	Margin (dB)
Vertical	2413.000	99.5	36.7	28.5	10.0	81.3	94.0	-12.7
Vertical	4826.000	64.3	36.7	34.6	10.0	52.2	54.0	-1.8
Vertical	7239.000	65.8	36.1	33.1	10.0	52.8	54.0	-1.2

Notes:

1. Peak detector Data unless otherwise stated. Above 1000 MHz, RBW=1MHz, VBW=3MHz is used for Peak measurement, RBW 3MHz used for fundamental emission.
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: Abel Zhou

INTERTEK TESTING SERVICES

Applicant: SHANTOU CHENGHAI GUANHUA IMPORT AND EXPORT TRADE CO., LTD

Date of Test: July 15, 2015

Model: 482015017

Sample: 1/1

Worst Case Operating Mode: Transmit

Table 3

Radiated Emissions

(2445.000MHz)

Polarization	Frequency (MHz)	Reading (dB μ V)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dB μ V/m)	Peak Limit at 3m (dB μ V/m)	Margin (dB)
Vertical	2445.000	99.7	36.7	28.6	91.6	114.0	-22.4
Vertical	4890.000	63.9	36.7	35.2	62.4	74.0	-11.6
Vertical	7335.000	65.9	36.1	33.1	62.9	74.0	-11.1

Polarization	Frequency (MHz)	Reading (dB μ V)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Average Factor (-dB)	Net at 3m (dB μ V/m)	Average Limit at 3m (dB μ V/m)	Margin (dB)
Vertical	2445.000	99.7	36.7	28.6	10.0	81.6	94.0	-12.4
Vertical	4890.000	63.9	36.7	35.2	10.0	52.4	54.0	-1.6
Vertical	7335.000	65.9	36.1	33.1	10.0	52.9	54.0	-1.1

Notes: 1. Peak detector Data unless otherwise stated. Above 1000 MHz, RBW=1MHz, VBW=3MHz is used for Peak measurement, RBW 3MHz used for fundamental emission.

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: Abel Zhou

INTERTEK TESTING SERVICES

Applicant: SHANTOU CHENGHAI GUANHUA IMPORT AND EXPORT TRADE CO., LTD

Date of Test: July 15, 2015

Model: 482015017

Sample: 1/1

Worst Case Operating Mode: Transmit

Table 4

Radiated Emissions

(2461.000MHz)

Polarization	Frequency (MHz)	Reading (dB μ V)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Net at 3m (dB μ V/m)	Peak Limit at 3m (dB μ V/m)	Margin (dB)
Vertical	2461.000	99.2	36.7	28.9	91.4	114.0	-22.6
Vertical	4922.000	63.9	36.7	35.6	62.8	74.0	-11.2
Vertical	7383.000	65.8	36.1	33.1	62.8	74.0	-11.2

Polarization	Frequency (MHz)	Reading (dB μ V)	Pre-Amp Gain (dB)	Antenna Factor (dB)	Average Factor (-dB)	Net at 3m (dB μ V/m)	Average Limit at 3m (dB μ V/m)	Margin (dB)
Vertical	2461.000	99.2	36.7	28.9	10.0	81.4	94.0	-12.6
Vertical	4922.000	63.9	36.7	35.6	10.0	52.8	54.0	-1.2
Vertical	7383.000	65.8	36.1	33.1	10.0	52.8	54.0	-1.2

Notes: 1. Peak detector Data unless otherwise stated. Above 1000 MHz, RBW=1MHz, VBW=3MHz is used for Peak measurement, RBW 3MHz used for fundamental emission.

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: Abel Zhou

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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

TRF No.: FCC 15C_TX_b
FCC ID: 2ACUT-482015017-M68
Report No.: GZHH00176566-001

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5.0 Product Labelling

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

TRF No.: FCC 15C_TX_b
FCC ID: 2ACUT-482015017-M68
Report No.: GZHH00176566-001

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EXHIBIT 6

TECHNICAL SPECIFICATIONS

TRF No.: FCC 15C_TX_b
FCC ID: 2ACUT-482015017-M68
Report No.: GZHH00176566-001

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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

TRF No.: FCC 15C_TX_b
FCC ID: 2ACUT-482015017-M68
Report No.: GZHH00176566-001

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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

TRF No.: FCC 15C_TX_b
FCC ID: 2ACUT-482015017-M68
Report No.: GZHH00176566-001

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8.0 Miscellaneous Information

This miscellaneous information includes details of the measured bandedge and the test procedure.

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8.1 Bandedge Plot

For electronic filing, the plot shows the fundamental emission when modulated is saved with filename: bandedge.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 fulfils the requirement of 15.249(d).

Peak Measurement

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

(i) Lower channel 2413.000MHz:

Peak Resultant field strength = Fundamental emissions (peak value) – delta from the bandedge plot

$$\begin{aligned} &= 91.3 \text{ dB}\mu\text{v/m} - 47.4 \text{ dB} \\ &= 43.9 \text{ dB}\mu\text{v/m} \end{aligned}$$

(ii) Upper channel 2461.000MHz:

Peak Resultant field strength = Fundamental emissions (peak value) – delta from the bandedge plot

$$\begin{aligned} &= 91.4 \text{ dB}\mu\text{v/m} - 43.7 \text{ dB} \\ &= 47.7 \text{ dB}\mu\text{v/m} \end{aligned}$$

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

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8.1 Bandedge Plot (cont'd)

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.

Figure 8.1 Bandwidth

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8.2 Discussion of Pulse Desensitization

Pulse desensitivity is not applicable for this device. The effective period (T_{eff}) is approximately 1.9275ms for a digital "1" bit, as shown in the plots of Exhibit 8.3. With a resolution bandwidth (3 dB) of 100 kHz, the pulse desensitivity factor was 0 dB.

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8.3 Calculation of Average Factor

Averaging factor in dB = $20 \log (\text{duty cycle})$

The specification for output field strengths in accordance with the FCC rules specify measurements with an average detector. During testing, a spectrum analyzer incorporating a peak detector was used. Therefore, a reduction factor can be applied to the resultant peak signal level and compared to the limit for measurement instrumentation incorporating an average detector.

The time period over which the duty cycle is measured is 100 milliseconds, or the repetition cycle, whichever is a shorter time frame. The worst case (highest percentage on) duty cycle is used for the calculation. The duty cycle is measured by placing the spectrum analyzer in zero scan (receiver mode) and linear mode at maximum bandwidth (3 MHz at 3 dB down) and viewing the resulting time domain signal output from the analyzer on a Tektronix oscilloscope. The oscilloscope is used because of its superior time base and triggering facilities.

A plot of the worst-case duty cycle as detected in this manner are saved with filename: af.pdf

The duty cycle is simply the on-time divided by the period:

The duration of one cycle = 6.1014ms

Effective period of the cycle = $1.9275\text{ms} \times 1 = 1.9275\text{ms}$

$DC = 1.9275\text{ms} / 6.1014\text{ms} = 0.3159$ or 31.59%

Therefore, the averaging factor is found by $20 \log_{10} 0.3159 = -10.0 \text{ dB}$

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8.4 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- 2009.

The transmitting equipment under test (EUT) is placed on a polyethylene 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. A detailed description for the calculation of the average factor can be found in Exhibit 8.3.

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.

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8.4 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- 2009.

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. A discussion of whether pulse desensitivity is applicable to this unit is included in this report (See Exhibit 8.2). Above 1000 MHz, a resolution bandwidth of 1 MHz is used (RBW 3MHz used for fundamental emission).

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.

INTERTEK TESTING SERVICES

EXHIBIT 9

CONFIDENTIALITY REQUEST

TRF No.: FCC 15C_TX_b
FCC ID: 2ACUT-482015017-M68
Report No.: GZHH00176566-001

INTERTEK TESTING SERVICES

9.0 Confidentiality Request

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

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EXHIBIT 10

TEST EQUIPMENT LIST

TRF No.: FCC 15C_TX_b
FCC ID: 2ACUT-482015017-M68
Report No.: GZHH00176566-001

INTERTEK TESTING SERVICES

10.0 Test Equipment List

Equipment No.	Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Due Date
SZ061-03	BiConiLog Antenna	ETS	3142C	00066460	14-Jun-15	14-Jun-16
SZ185-01	EMI Receiver	R&S	ESCI	100547	7-Feb-15	7-Feb-16
SZ061-07	Pyramidal Horn Antenna	ETS	3160-09	00083067	3-Sep-14	3-Sep-15
SZ061-08	Horn Antenna	ETS	3115	00092346	19-Oct-14	19-Oct-15
SZ061-06	Active Loop Antenna	Electro-Metrics	EM-6876	217	29-Apr-15	29-Apr-16
SZ056-03	Spectrum Analyzer	R&S	FSP 30	101148	8-Jun-15	8-Jun-16
SZ181-04	Preamplifier	Agilent	8449B	3008A02474	7-Feb-15	7-Feb-16
SZ188-01	Anechoic Chamber	ETS	RFD-F/A-100	4102	19-Aug-14	19-Aug-16
SZ062-02	RF Cable	RADIALL	RG 213U	--	27-Jun-15	3-Dec-15
SZ062-06	RF Cable	RADIALL	0.04-26.5GHz	--	7-Apr-15	7-Oct-15
SZ062-12	RF Cable	RADIALL	0.04-26.5GHz	--	7-Apr-15	7-Oct-15
SZ067-04	Notch Filter	Micro-Tronics	BRM5070 2-02	--	20-May-15	20-May-16

TRF No.: FCC 15C_TX_b
FCC ID: 2ACUT-482015017-M68
Report No.: GZHH00176566-001