

Guangdong Shiji Technology Co.,Ltd

Application For Certification

FCC ID: 2ALUJS70W720PB

Controller

Model: P70-GPS, S70W720P-D(GPS)

Brand Name: Promark, SJ R/C

2.4GHz Transmitter

Report No.: 170710037GZU-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 [10-1-15]

| Prepared and Checked by: | Approved by: |
|--------------------------|-------------------------|
| | |
| Sign on file | |
| Surel Guo | Kidd Yang |
| Engineer | Senior Project Engineer |
| | Date: July 7, 2017 |

- 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_c

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MEASUREMENT/TECHNICAL REPORT

Guangdong Shiji Technology Co.,Ltd

Model: P70-GPS

FCC ID: 2ALUJS70W720PB

| This report concerns (check | one:) | Original Grant | <u> </u> | Class II Ch | ange _ | |
|--|---|--|----------------------|---------------------|--------|-----------|
| Equipment Type: DXX - Part | | | | | | |
| Deferred grant requested pe | r 47 CFR 0.4 | 157(d)(1)(ii)? | Yes _ | | No _ | X |
| | | • | · | - | ate | |
| Company Name agrees to no | otify the Com | nmission by: | | | | |
| of the intended date of annodate. | uncement of | the product so | that the gr | date ant can be | issued | I on that |
| Transition Rules Request pe | r 15.37? | | Yes _ | | No _ | X |
| If no, assumed Part 15, St Edition] provision. | ubpart C for | intentional rac | diator – th | e new 47 | CFR [| 10-1-15 |
| Report prepared by: | | | | | | |
| Ir B C G | llock E, No.7 Caipin Road, G Guangzhou, C | ng Services She -2 Guang Dong Guangzhou Sci China 20-8213 9688/8 | Software Sence City, | Science Pa GETDD | | nch |

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|-----------------------|----------------------------|---------------------|
| 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 |
| 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 |

EXHIBIT 1 GENERAL DESCRIPTION

1.0 General Description

1.1 Product Description

The equipment under test (EUT) is a Controller with 2.4GHz wireless control function operating in 2402-2478MHz. The EUT is powered by rechargeable battery (DC 3.7V, 300mAh) which can be charged by USB port (DC 5V).For more detail information pls. refer to the user manual.

The Model: S70W720P-D(GPS) is the same as the Model: P70-GPS in hardware and electrical aspect. The difference in model number and brand name as marketing strategy. Details as below:

| Model No. | Brand name |
|-----------------|------------|
| P70-GPS | Promark |
| S70W720P-D(GPS) | SJ R/C |

Antenna type: Integral antenna

Modulation Type: GFSK

Antenna gain: 0dBi Max

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 which has 2.4GHz wireless control function, other digital functions were reported in the verification report: 170710031GZU-002. And there has Drone Quadcopter (FCC ID: 2ALUJS70W720PA) which associated with this EUT, is filed at the same time, and is subjected to report: 170710031GZU-001.

1.3 Test Methodology

Radiated emission measurement was performed according to the procedures in ANSI C63.10 (2013). Radiated emission measurement was performed in Semi-anechoic chamber. For radiated emission measurement, 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. All other measurements were made in accordance with the procedures in part 2 of CFR 47.

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1.4 Test Facility

The Semi-Anechoic chamber and shield room used to collect the radiated data and conducted data are **EMTEK** (Shenzhen) Co., Ltd. and located at Bldg. 69, Majialong Industry Zone, Nanshan District, Shenzhen, Guangdong, 518052, China. This test facility and site measurement data have been fully placed on file with File Number: 4480A.

EXHIBIT 2 SYSTEM TEST CONFIGURATION

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 C63.10 (2013).

The EUT was powered by fully charged DC 3.7 V rechargeable battery during the test.

For maximizing emissions, 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 reported in Exhibit 3.

The EUT was operated standalone and placed in the central of the styrene 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 the styrene turntable, 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 testing was designed to exercise the various system components in a manner similar to a typical use.

2.3 Special Accessories

No special accessory attached.

2.4 Equipment Modification

Any modifications installed previous to testing by Guangdong Shiji 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 Guangzhou 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

EXHIBIT 3 EMISSION RESULTS

3.0 Emission Results

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

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, 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 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 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.

 $RA = 62.0 dB\mu V$ AF = 7.4 dB

CF = 1.6 dB

 $AG = 29.0 \, dB$

PD = 0 dB

AV = -10 dB

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

Level in $\mu V/m = Common Antilogarithm [(32 dB<math>\mu V/m)/20] = 39.8 \mu V/m$

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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 54.720 MHz

Judgement: Passed by 18.0 dB

TEST PERSONNEL:

Sign on file

Surel Guo, Engineer Typed/Printed Name

June 5, 2017 Date

Date of Test: June 5, 2017

Applicant: Guangdong Shiji Technology Co.,Ltd

Model: P70-GPS Sample: 1/1

Worst Case Operating Mode: Transmitting (2402MHz)

Modulation type: GFSK

Table 1

Radiated Emissions

| Polarization | Frequency | Reading | Pre- | Antenna | Net | Limit | Margin |
|--------------|-----------|---------|------|---------|----------|----------|--------|
| | (MHz) | (dBµV) | Amp | Factor | at 3m | at 3m | (dB) |
| | | | Gain | (dB) | (dBµV/m) | (dBµV/m) | |
| | | | (dB) | | | | |
| Horizontal | 32.940 | 24.0 | 20.0 | 16.3 | 20.3 | 40.0 | -19.7 |
| Horizontal | 93.060 | 30.9 | 20.0 | 9.3 | 20.2 | 43.5 | -23.3 |
| Horizontal | 304.980 | 25.7 | 20.0 | 15.5 | 21.2 | 46.0 | -24.8 |
| Vertical | 54.720 | 33.6 | 20.0 | 8.4 | 22.0 | 40.0 | -18.0 |
| Vertical | 82.380 | 31.3 | 20.0 | 8.8 | 20.1 | 40.0 | -19.9 |
| Vertical | 92.565 | 34.1 | 20.0 | 9.3 | 23.4 | 43.5 | -20.1 |

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)

Worst Case Radiated Emission at 7434.000 MHz

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

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 6.1 dB

TEST PERSONNEL:

Sign on file

Surel Guo, Engineer
Typed/Printed Name

June 5, 2017 Date

Applicant: Guangdong Shiji Technology Co.,Ltd

Model: P70-GPS Sample: 1/1

Worst Case Operating Mode: Transmitting

Date of Test: June 5, 2017

Table 2

Radiated Emissions

(2402MHz)

| Polarization | Frequency | Reading | Pre- | Antenna | Net | Peak Limit | Margin |
|--------------|-----------|---------|------|---------|----------|------------|--------|
| | (MHz) | (dBµV) | Amp | Factor | at 3m | at 3m | (dB) |
| | | | Gain | (dB) | (dBµV/m) | (dBµV/m) | |
| | | | (dB) | | | | |
| Horizontal | 2402.000 | 106.5 | 36.7 | 28.5 | 98.3 | 114.0 | -15.7 |
| Horizontal | 4804.000 | 68.1 | 36.7 | 28.5 | 59.9 | 74.0 | -14.1 |
| Horizontal | 7206.000 | 60.3 | 36.1 | 33.1 | 57.3 | 74.0 | -16.7 |

| Polarization | Frequency | Reading | Pre- | Antenna | Average | Net | Average Limit | Margin |
|--------------|-----------|---------|------|---------|---------|----------|---------------|--------|
| | (MHz) | (dBµV) | Amp | Factor | Factor | at 3m | at 3m | (dB) |
| | | | Gain | (dB) | (-dB) | (dBµV/m) | (dBµV/m) | |
| | | | (dB) | | , , | | | |
| Horizontal | 2402.000 | 106.5 | 36.7 | 28.5 | 17.7 | 80.6 | 94.0 | -13.4 |
| Horizontal | 4804.000 | 68.1 | 36.7 | 28.5 | 17.7 | 42.2 | 54.0 | -11.8 |
| Horizontal | 7206.000 | 60.3 | 36.1 | 33.1 | 17.7 | 39.6 | 54.0 | -14.4 |

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.

Applicant: Guangdong Shiji Technology Co.,Ltd

Model: P70-GPS Sample: 1/1

Worst Case Operating Mode: Transmitting

Date of Test: June 5, 2017

Table 3

Radiated Emissions

(2440MHz)

| Polarization | Frequency | Reading | Pre- | Antenna | Net | Peak Limit | Margin |
|--------------|-----------|---------|------|---------|----------|------------|--------|
| | (MHz) | (dBµV) | Amp | Factor | at 3m | at 3m | (dB) |
| | | | Gain | (dB) | (dBµV/m) | (dBµV/m) | |
| | | | (dB) | | | | |
| Horizontal | 2440.000 | 111.5 | 36.7 | 28.5 | 103.3 | 114.0 | -10.7 |
| Horizontal | 4880.000 | 71.3 | 36.7 | 28.5 | 63.1 | 74.0 | -10.9 |
| Horizontal | 7320.000 | 66.5 | 36.1 | 33.1 | 63.5 | 74.0 | -10.5 |

| Polarization | Frequency | Reading | Pre- | Antenna | Average | Net | Average Limit | Margin |
|--------------|-----------|---------|------|---------|---------|----------|---------------|--------|
| | (MHz) | (dBµV) | Amp | Factor | Factor | at 3m | at 3m | (dB) |
| | | | Gain | (dB) | (-dB) | (dBµV/m) | (dBµV/m) | |
| | | | (dB) | | , , | | | |
| Horizontal | 2440.000 | 111.5 | 36.7 | 28.5 | 17.7 | 85.6 | 94.0 | -8.4 |
| Horizontal | 4880.000 | 71.3 | 36.7 | 28.5 | 17.7 | 45.4 | 54.0 | -8.6 |
| Horizontal | 7320.000 | 66.5 | 36.1 | 33.1 | 17.7 | 45.8 | 54.0 | -8.2 |

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.

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Applicant: Guangdong Shiji Technology Co.,Ltd

Model: P70-GPS Sample: 1/1

Worst Case Operating Mode: Transmitting

Date of Test: June 5, 2017

Table 4

Radiated Emissions

(2478MHz)

| Polarization | Frequency | Reading | Pre- | Antenna | Net | Limit | Margin |
|--------------|-----------|---------|------|---------|----------|----------|--------|
| | (MHz) | (dBµV) | Amp | Factor | at 3m | at 3m | (dB) |
| | | | Gain | (dB) | (dBµV/m) | (dBµV/m) | |
| | | | (dB) | | | | |
| Horizontal | 2478.000 | 108.8 | 36.7 | 28.6 | 100.7 | 114.0 | -13.3 |
| Horizontal | 4956.000 | 68.6 | 36.7 | 28.6 | 60.5 | 74.0 | -13.5 |
| Horizontal | 7434.000 | 68.3 | 36.1 | 33.4 | 65.6 | 74.0 | -8.4 |

| Polarization | Frequency | Reading | Pre- | Antenna | Average | Net | Average Limit | Margin |
|--------------|-----------|---------|------|---------|---------|----------|---------------|--------|
| | (MHz) | (dBµV) | Amp | Factor | Factor | at 3m | at 3m | (dB) |
| | | | Gain | (dB) | (-dB) | (dBµV/m) | (dBµV/m) | |
| | | | (dB) | | ` , | | | |
| Horizontal | 2478.000 | 108.8 | 36.7 | 28.6 | 17.7 | 83.0 | 94.0 | -11.0 |
| Horizontal | 4956.000 | 68.6 | 36.7 | 28.6 | 17.7 | 42.8 | 54.0 | -11.2 |
| Horizontal | 7434.000 | 68.3 | 36.1 | 33.4 | 17.7 | 47.9 | 54.0 | -6.1 |

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.

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EXHIBIT 4 EQUIPMENT PHOTOGRAPHS

4.0 **Equipment Photographs**

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

EXHIBIT 5 PRODUCT LABELLING

5.0 **Product Labelling**

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

EXHIBIT 6 TECHNICAL SPECIFICATIONS

6.0 <u>Technical Specifications</u>

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

EXHIBIT 7 INSTRUCTION MANUAL

7.0 <u>Instruction Manual</u>

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.

EXHIBIT 8

MISCELLANEOUS INFORMATION

8.0 <u>Miscellaneous Information</u>

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

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 2402MHz:

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

= $98.3 \text{ dB}\mu\text{v/m}-30.5\text{dB}$ = $67.8 \text{ dB}\mu\text{v/m}$

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

 $= 80.6 \text{ dB}\mu\text{V/m}-30.5 \text{ dB}$ = 50.1 dB $\mu\text{V/m}$

(ii) Upper channel 2478MHz:

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

= $100.7 \text{ dB}\mu\text{v/m}-34.0\text{dB}$ = $66.7 \text{ dB}\mu\text{v/m}$

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

 $= 83.0 \text{ dB}\mu\text{V/m}-34.0 \text{ dB}$ = 49.0 dB $\mu\text{V/m}$

The resultant field strength meets the general radiated emission limit in section 15.209, which does not exceed 74dBµv/m (Peak Limit) and 54dBµv/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 excepted variations in temperature and supply voltage were considered.

Figure 8.1 Bandwidth

8.2 Discussion of Pulse Desensitization

Pulse desensitivity is not applicable for this device. The effective period (T_{eff}) is approximately 1.1594 ms for a digital "1" bit, as shown in the plots of Exhibit 8.3. With a resolution bandwidth (3dB) of 1MHz, so the pulse desensitivity factor is 0dB.

8.3 Transmitter Duty Cycle Calculation, FCC Rule 15.35(b, c)

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

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 3dB 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 = 17.8261 ms Effective period of the cycle = 1.1594*2 ms=2.3188 ms

DC = 2.3188 ms / 17.8261 ms = 0.1301 or 13.01%

Therefore, the averaging factor is found by $20\log_{10}0.1301 = -17.7$ 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 C63.10 - 2013.

The transmitting equipment under test (EUT) is placed on a styrene turntable which is four feet in diameter, up to 1GHz 0.8m and above 1GHz 1.5m 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 adjusting 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.

Detector function for conducted emissions is in QP & AV mode and IFBW setting is 9 kHz from the frequency band 150 kHz to 30MHz.

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 C63.10 - 2013.

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 (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.

EXHIBIT9

TEST EQUIPMENT LIST

9.0 <u>Test Equipment List</u>

| Equipment No. | Equipment | Manufacturer | Model No. | Serial No. | Cal. Date | Due Date |
|---------------|----------------------|--------------------|------------------------|-------------------------------------|-------------|-------------|
| EE089 | EMI Test Receiver | Rohde & Schwarz | ESU | 1302.6005 .26 | 17-May-2017 | 17-May-2018 |
| EE040 | Pre-Amplifier | HP | 8447F | 2944A079 99 | 17-May-2017 | 17-May-2018 |
| EE043 | Bilog Antenna | Schwarzbeck | VULB9163 | 142 | 17-May-2017 | 17-May-2018 |
| EE049 | Power meter | Anritsu | ML2487A | 6K000036 13 | 28-May-2017 | 28-May-2018 |
| EE050 | Power sensor | Anritsu | MA2491A | 32263 | 28-May-2017 | 28-May-2018 |
| EE147 | Cable | Schwarzbeck | AK9513 | ACRX1 | 17-May-2017 | 17-May-2018 |
| EE169 | Cable | Rosenberger | N/A | FP2RX2 | 17-May-2017 | 17-May-2018 |
| EE168 | Cable | Schwarzbeck | AK9513 | CRPX1 | 29-May-2017 | 29-May-2018 |
| EE170 | Cable | Schwarzbeck | AK9513 | CRRX2 | 29-May-2017 | 29-May-2018 |
| EE096 | Pre-Amplifier | A.H. | PAM-0126 | 1415261 | 17-May-2017 | 17-May-2018 |
| EE094 | Horn Antenna | Schwarzbeck | BBHA 9120 | 707 | 29-May-2017 | 29-May-2018 |
| EE097 | Cable | H+B | 0.5M SF104- 26.5 | 289147/4 | 29-May-2017 | 29-May-2018 |
| EE100 | Cable | H+B | 3M SF104- 26.5 | 295838/4 | 29-May-2017 | 29-May-2018 |
| EE101 | Cable | H+B | 6M SF104- 26.5 | 295840/4 | 29-May-2017 | 29-May-2018 |
| EE095 | Horn Antenna | Schwarzbeck | BBHA 9170 | BBHA9170 399 | 17-May-2017 | 17-May-2018 |
| EE343 | EMI Test Receiver | Rohde & Schwarz | FSV40 | 132.1- 3008K39- 100967- AP | 29-May-2017 | 29-May-2018 |
| EE240 | Pre-Amplifier | Lunar EM | LNA26G40 -40 | J10131310 28001 | 17-May-2017 | 17-May-2018 |
| EE234 | Horn Antenna | AHS/USA | SAS-573 | 184 | 17-May-2017 | 17-May-2018 |
| EE312 | Cable | A.H | SAC-40G- 1 | 414 | 17-May-2017 | 17-May-2018 |
| EE313 | Cable | A.H | SAC-40G- 1 | 413 | 17-May-2017 | 17-May-2018 |