

FCC PART 15.255 TEST REPORT

For

SZ DJI TECHNOLOGY CO., LTD

14th floor, West Wing, Skyworth Semiconductor Design Building NO.18 Gaoxin South 4th Ave, Nanshan, Shenzhen, Guangdong, China

FCC ID: SS3-60RX1604

| Report Type: Original Report | | Product Type: SRW-60G | |
|------------------------------|-------------------------|--------------------------|--|
| Test Engineer: | Emily Wang | Emily Wang | |
| Report Number: | RDG160322007 | 08-00 | |
| Report Date: | 2016-04-21 | | |
| Reviewed By: | Dean Liu RF Engineer | Dean. Lau | |
| Test Laboratory: | No.69 Pulongci | 86858891 | |

Note: This test report is prepared for the customer shown above and for the device described herein. It may not be duplicated or used in part without prior written consent from Bay Area Compliance Laboratories Corp. (Dongguan).

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GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

The SZ DJI TECHNOLOGY CO., LTD product, model number: D-60G RX (FCC ID: SS3-60RX1604) (the "EUT") in this report was a SRW-60G, which was measured approximately: 6.5 cm (L) x 4.6 cm (W) x 1.4 cm (H), Nominal input voltage: DC 12V(Voltage range: 7.4-18V) from 4 pin port or 5V form USB port(USB host operation).

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All measurement and test data in this report was gathered from production sample serial number: 160322008 (Assigned by BACL, Dongguan). The EUT was received on 2016-03-24.

Objective

This type approval report is prepared on behalf of *SZ DJI TECHNOLOGY CO., LTD.* in accordance with Part 2-Subpart J, and Part 15-Subparts A, B and C of the Federal Communication Commissions rules.

The tests were performed in order to determine compliance with FCC Part 15, Subpart C, and section 15.203 15.205 15.207 15.209 and 15.255 rules.

Related Submittal(s)/Grant(s)

Submitted with the Part of a system with FCC ID: SS3-60TX1604

Test Methodology

All measurements contained in this report were conducted with ANSI C63.10-2013, American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices.

All emissions measurement was performed and Bay Area Compliance Laboratories Corp. (Dongguan).

Test Facility

The Test site used by Bay Area Compliance Laboratories Corp. (Dongguan) to collect test data is located on the No.69 Pulongcun, Puxinhu Industrial Zone, Tangxia, Dongguan, Guangdong, China

Test site at Bay Area Compliance Laboratories Corp. (Dongguan) has been fully described in reports submitted to the Federal Communication Commission (FCC). The details of these reports have been found to be in compliance with the requirements of Section 2.948 of the FCC Rules on February 06, 2015.

The Federal Communications Commission has the reports on file and is listed under FCC Registration No.: 273710. The test site has been approved by the FCC for public use and is listed in the FCC Public Access Link (PAL) database.

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Test Equipment List and Details

| Manufacturer | Description | Model | Serial Number | Calibration Date | Calibration Due Date |
|--------------------------|-------------------|---------------------|--------------------|---------------------|----------------------|
| R&S | EMI Test Receiver | ESCI | 100224 | 2015-08-03 | 2016-08-02 |
| Sunol Sciences | Antenna | ЈВ3 | A060611-3 | 2014-11-06 | 2017-11-05 |
| HP | Amplifier | 8447E | 2434A02181 | 2015-09-01 | 2016-09-01 |
| Agilent | Spectrum Analyzer | E4440A | SG43360054 | 2015-11-23 | 2016-11-22 |
| ETS-Lindgren | Horn Antenna | 3115 | 9808-5557 | 2015-09-06 | 2018-09-06 |
| Mini-Circuit | Amplifier | ZVA-213-S+ | 054201245 | 2016-02-19 | 2017-02-19 |
| R&S | Spectrum Analyzer | FSP 38 | 100478 | 2015-05-09 | 2016-05-09 |
| Ducommun Technolagies | Horn Antenna | ARH-4223-02 | 1007726-01 1304 | 2014-06-16 | 2017-06-15 |
| Ducommun Technolagies | Horn Antenna | ARH-2823-02 | 1007726-01 1302 | 2014-06-16 | 2017-06-15 |
| Agilent | Spectrum Analyzer | 8564E | 3943A01781 | 2015-5-10 | 2016-5-9 |
| Agilent | Harmonic Mixer | 11970U | 2332A00853 | 2015-8-16 | 2017-8-15 |
| Flann Micowave | Horn Antenna | 24245-AB | 26 | N/A | N/A |
| Agilent | Harmonic Mixer | 11970V | 2521A011767 | 2015-8-16 | 2017-8-15 |
| Alpha Industries | Horn Antenna | 861V/385 | 736 | N/A | N/A |
| Agilent | Harmonic Mixer | 11970W | 2521A00597 | 2015-8-16 | 2017-8-15 |
| Alpha Industries | Horn Antenna | 861W/387 | 355 | N/A | N/A |
| OML | Diplexer | DPL.26 | N/A | N/A | N/A |
| OML | Harmonic Mixer | HWD08 | F60313-1 | 2015-1-9 | 2017-1-8 |
| OML | Horn Antenna | M08RH | N/A | N/A | N/A |
| OML | Harmonic Mixer | HWD05 | G60106-1 | 2015-2-19 | 2017-2-18 |
| OML | Horn Antenna | M05RH | N/A | N/A | N/A |
| Quinstar | Amplifier | QLW- 18405536-JO | 15964001001 | 2015-09-06 | 2016-09-06 |
| N/A | Coaxial Cable | 14m | N/A | 2015-05-06 | 2016-05-06 |
| N/A | Coaxial Cable | 8m | N/A | 2015-05-06 | 2016-05-06 |
| Agilent | Coaxial Cable | 1m | N/A | 2015-05-06 | 2016-05-06 |
| Agilelnt | Coaxial Cable | 1m | N/A | 2015-05-06 | 2016-05-06 |

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Test Date

2016-03-24~ 2016-04-20

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^{*} Statement of Traceability: Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

SYSTEM TEST CONFIGURATION

Description of Test Configuration

The system was configured for testing in Engineering Mode, which was provided by the manufacturer.

The device can powered by DC 12V from 4 pin port (CAN port), typical used with a battery; And DC 5V from USB port, typical used with a PC or laptop. Both modes were evaluated in the test. The typical use condition was provided by the manufacturer.

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The device supports LRP mode, the operation channels list in the below table:

| Channel Number | Frequency (MHz) | Channel Number | Frequency (MHz) |
|----------------|--------------------|----------------|--------------------|
| 1 | 60163 | 6 | 62323 |
| 2 | 60321 | 7 | 62481 |
| 3 | 60480 | 8 | 62640 |
| 4 | 60639 | 9 | 62799 |
| 5 | 60797 | 10 | 62957 |

Channel 1, 5, 10 was chose for testing.

EUT Exercise Software

The software "SWAM3" was used for testing, which was provided by manufacturer. The worst condition (maximum power) was configured by system default setting.

Equipment Modifications

No modifications were made to the EUT.

Support Equipment List and Details

| Manufacturer | Description | Model | Serial Number |
|--------------|---------------------------|-------|---------------|
| DJI | LIGHTBRIDGE (Terminal) | N/A | N/A |
| N/A | battery | N/A | N/A |
| Lenovo | Laptop | G510 | HY1482 |

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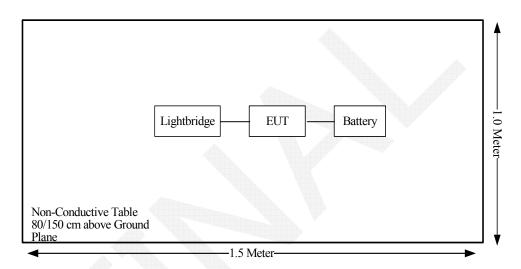
External I/O Cable

| Cable Description | Shielding Type | Ferrite Core | Length (m) | From Port | То |
|-------------------|-------------------|--------------|------------|-----------|-------------|
| HDMI cable | yes | yes | 0.43 | EUT | LIGHTBRIDGE |
| DC Cable | Yes | yes | 1.0 | adapter | Laptop |
| USB Cable | Yes | Yes | 1.0 | Laptop | EUT |

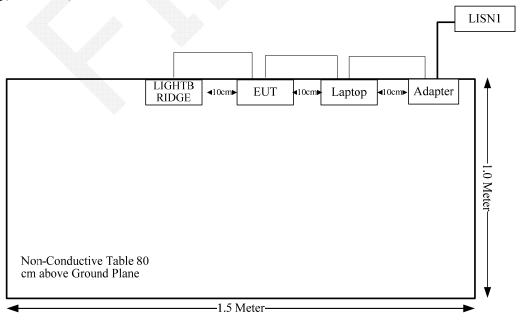
Report No.: RDG160322008-00

Block Diagram of Test Setup

Battery operating(Radiation):

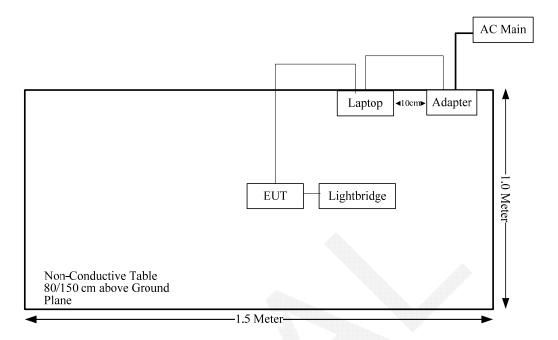


USB Operating(Conduction):



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USB Operating(Radiation):



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SUMMARY OF TEST RESULTS

| FCC Rules | Description of Test | Result |
|-----------------|--|------------|
| §1.1310&§2.1091 | Maximum Permissible Compliance Exposure | |
| §15.203 | Antenna Requirement | Compliance |
| §15.207 (a) | AC Line Conducted Emissions | Compliance |
| § 15.255 (e) | Occupied Bandwidth | Compliance |
| §15.255 (b) | EIRP Power | Compliance |
| §15.255 (e) | Peak Conducted Output Power | Compliance |
| §15.255 (c) | Spurious Emissions | Compliance |
| §15.255 (f) | Frequency Stability Compliance | |
| §15.255 (d) | Publicly-Accessible Coordination Channel Compliance | |
| §15.255 (a)(h) | Operation Restriction And Group Installation | Compliance |

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FCC§1.1310 & §2.1091- MAXIMUM PERMISSIBLE EXPOSURE (MPE)

Applicable Standard

According to subpart §1.1310, systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess of the Commission's guidelines.

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Limits for Maximum Permissible Exposure (MPE) (§1.1310, §2.1091)

| (B) Limits for General Population/Uncontrolled Exposure | | | | |
|---|----------------------------------|----------------------------------|------------------------|--------------------------|
| Frequency Range (MHz) | Electric Field Strength (V/m) | Magnetic Field Strength (A/m) | Power Density (mW/cm²) | Averaging Time (minutes) |
| 0.3-1.34 | 614 | 1.63 | *(100) | 30 |
| 1.34–30 | 824/f | 2.19/f | *(180/f²) | 30 |
| 30–300 | 27.5 | 0.073 | 0.2 | 30 |
| 300-1500 | / | / | f/1500 | 30 |
| 1500-100,000 | / | / | 1.0 | 30 |

f = frequency in MHz; * = Plane-wave equivalent power density;

According to §1.1310 and §2.1091 RF exposure is calculated.

Calculated Formulary:

Predication of MPE limit at a given distance

 $S = PG/4\pi R^2 = power density (in appropriate units, e.g. mW/cm^2);$

P = power input to the antenna (in appropriate units, e.g., mW);

G = power gain of the antenna in the direction of interest relative to an isotropic radiator, the power gain factor, is normally numeric gain; R = distance to the center of radiation of the antenna (appropriate units, e.g., cm);

Calculated Data:

| Frequency | E.I.R.P | | Evaluation | Power | MPE Limit |
|-------------------|---------|------|------------------|-------------------------------|-----------------------|
| (GHz) | (dBm) | (mW) | Distance (cm) | Density (mW/cm ²) | (mW/cm ²) |
| 60.163- 62.957 | 30 | 1000 | 20.00 | 0.20 | 1.0 |

Note: The tune-up power is 30dBm(E.I.R.P).

Result: The device meet FCC MPE at 20 cm distance

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FCC§15.203 - ANTENNA REQUIREMENT

Applicable Standard

For intentional device, according to §15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used.

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Antenna Connector Construction

The EUT has one integral antenna on chip, which antenna gain is 16 dBi, fulfill the requirement of this section. Please refer to the EUT photos.

Result: Compliant.

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FCC §15.207 – AC LINE CONDUCTED EMISSION

Measurement Uncertainty

Compliance or non- compliance with a disturbance limit shall be determined in the following manner:

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If U_{lab} is less than or equal to U_{cispr} of Table 1, then:

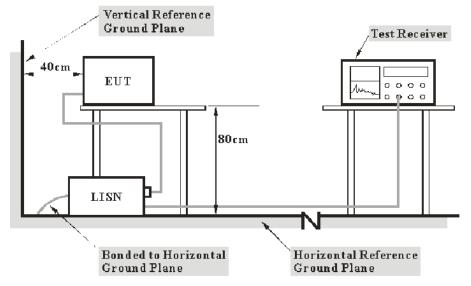
- compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit;
- non compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit. If U_{lab} is greater than U_{cispr} of Table 1, then:
- compliance is deemed to occur if no measured disturbance level, increased by $(U_{lab} U_{cispr})$, exceeds the disturbance limit;
- non compliance is deemed to occur if any measured disturbance level, increased by $(U_{\text{lab}} U_{\text{cispr}})$, exceeds the disturbance limit.

Based on CISPR 16-4-2-2011, measurement uncertainty of conducted disturbance at mains port using AMN at Bay Area Compliance Laboratories Corp. (Dongguan) is 3.12 dB (150 kHz to 30 MHz).

Table 1 – Values of U_{cispr}

| | A 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 |
|---|---|
| Measurement | $U_{ m cispr}$ |
| Conducted disturbance at mains port using AMN (9 kHz to 150 kHz) | 3.8 dB |
| (150 kHz to 30 MHz) | 3.4 dB |
| Conducted disturbance at mains port using voltage probe (9 kHz to 30 MHz) | 2.9 dB |
| Conducted disturbance at telecommunication port using AAN (150 kHz to 30 MHz) | 5.0 dB |
| Conducted disturbance at telecommunication port using CVP (150 kHz to 30 MHz) | 3.9 dB |
| Conducted disturbance at telecommunication port using CP (150 kHz to 30 MHz) | 2.9 dB |

EUT Setup



Note: 1. Support units were connected to second LISN.

2. Both of LISNs (AMN) 80 cm from EUT and at the least 80 cm from other units and other metal planes support units.

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The setup of EUT is according with per ANSI C63.10-2013 measurement procedure. The specification used was with the FCC Part 15.207.

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The external I/O cables were draped along the test table and formed a bundle 30 to 40 cm long in the middle.

The spacing between the peripherals was 10 cm.

The adapter was connected to a 120 VAC/60 Hz power source.

EMI Test Receiver Setup

The EMI test receiver was set to investigate the spectrum from 150 kHz to 30 MHz.

During the conducted emission test, the EMI test receiver was set with the following configurations:

| Frequency Range | IF B/W |
|------------------|--------|
| 150 kHz – 30 MHz | 9 kHz |

Test Equipment List and Details

| | | Toolookook | ,61515157 \distribution | 10h | |
|--------------|--------------------|------------|-------------------------|---------------------|-------------------------|
| Manufacturer | Description | Model | Serial Number | Calibration Date | Calibration Due Date |
| R&S | EMI Test Receiver | ESCS 30 | 830245/006 | 2015-12-10 | 2016-12-09 |
| R&S | L.I.S.N | ESH2-Z5 | 892107/021 | 2015-07-16 | 2016-07-15 |
| R&S | Two-line V-network | ENV 216 | 3560.6550.12 | 2015-11-26 | 2016-11-25 |
| TESEQ | ISN | Т8 | 34379 | 2016-04-07 | 2017-04-06 |
| BACL | Test Software | EMC32 | Version8.53.0 | N/A | N/A |

^{*} Statement of Traceability: Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Test Procedure

During the conducted emission test, the adapter was connected to the outlet of the LISN.

Maximizing procedure was performed on the six (6) highest emissions of the EUT.

All data was recorded in the Quasi-peak and average detection mode.

According FCC publication number 174176, for a device with a permanent antenna operating at or below 30 MHz, the measurements done with a suitable dummy load, in lieu of the permanent antenna under the following conditions: (1) perform the AC line conducted tests with the permanent antenna to determine compliance with the Section 15.207 limits outside the transmitter's fundamental emission band; (2) retest with a dummy load in lieu of the permanent antenna to determine compliance with the Section 15.207 limits within the transmitter's fundamental emission band.

Corrected Amplitude & Margin Calculation

The basic equation is as follows:

$$V_C = V_R + A_C + VDF$$

Herein,

 V_C : corrected voltage amplitude V_R : reading voltage amplitude

A_c: attenuation caused by cable loss

VDF: voltage division factor of AMN or ISN

The "Margin" column of the following data tables indicates the degree of compliance within the applicable limit. For example, a margin of 7dB means the emission is 7dB below the maximum limit. The equation for margin calculation is as follows:

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Margin = Limit – Corrected Amplitude

Test Results Summary

According to the recorded data in following table, the EUT complied with the <u>FCC Part 15.207</u>, with the worst margin reading of:

13.50 dB at 0.150000 MHz in the Line conducted mode

Test Data

Environmental Conditions

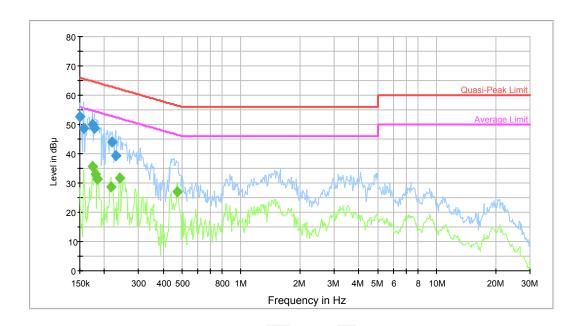
| Temperature: | 25.9°C |
|--------------------|-----------|
| Relative Humidity: | 52 % |
| ATM Pressure: | 100.8 kPa |

The testing was performed by Emily Wang on 2016-04-20.

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Test Mode: Transmitting (USB operating)

AC 120V, 60 Hz, Line:



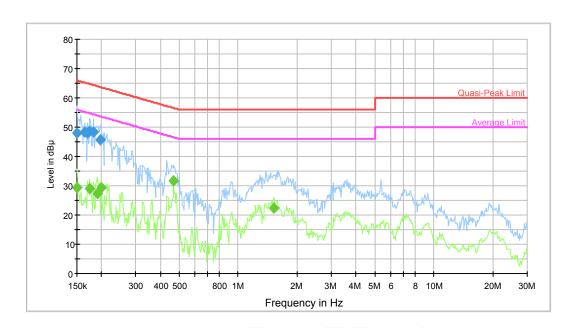
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| Frequency (MHz) | Quasi Peak (dBµV) | Bandwidth (kHz) | Line | Corr. (dB) | Margin (dB) | Limit (dBµV) | Comment |
|--------------------|----------------------|--------------------|------|------------|----------------|--------------|------------|
| 0.150000 | 52.5 | 9.000 | L1 | 9.8 | 13.5 | 66.0 | Compliance |
| 0.157346 | 48.5 | 9.000 | L1 | 9.7 | 17.1 | 65.6 | Compliance |
| 0.173134 | 50.1 | 9.000 | L1 | 9.7 | 14.7 | 64.8 | Compliance |
| 0.177322 | 48.5 | 9.000 | L1 | 9.7 | 16.1 | 64.6 | Compliance |
| 0.219886 | 44.1 | 9.000 | L1 | 9.7 | 18.7 | 62.8 | Compliance |
| 0.228823 | 39.3 | 9.000 | L1 | 9.7 | 23.2 | 62.5 | Compliance |

| Frequency (MHz) | Average (dBμV) | Bandwidth (kHz) | Line | Corr. (dB) | Margin (dB) | Limit (dBµV) | Comment |
|--------------------|-------------------|--------------------|------|------------|-------------|--------------|------------|
| 0.173134 | 35.7 | 9.000 | L1 | 9.7 | 19.1 | 54.8 | Compliance |
| 0.180171 | 32.9 | 9.000 | L1 | 9.7 | 21.6 | 54.5 | Compliance |
| 0.184529 | 31.3 | 9.000 | L1 | 9.7 | 23.0 | 54.3 | Compliance |
| 0.216409 | 28.6 | 9.000 | L1 | 9.7 | 24.4 | 53.0 | Compliance |
| 0.240029 | 31.6 | 9.000 | L1 | 9.7 | 20.5 | 52.1 | Compliance |
| 0.472507 | 27.1 | 9.000 | L1 | 9.8 | 19.4 | 46.5 | Compliance |

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AC120 V, 60 Hz, Neutral:



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| Frequency (MHz) | Quasi Peak (dBμV) | Bandwidth (kHz) | Line | Corr. (dB) | Margin (dB) | Limit (dBµV) | Comment |
|--------------------|----------------------|--------------------|------|------------|-------------|--------------|------------|
| 0.150000 | 48.1 | 9.000 | N | 9.7 | 17.9 | 66.0 | Compliance |
| 0.165051 | 48.4 | 9.000 | N | 9.7 | 16.8 | 65.2 | Compliance |
| 0.170396 | 48.1 | 9.000 | N | 9.7 | 16.8 | 64.9 | Compliance |
| 0.174519 | 48.7 | 9.000 | N | 9.7 | 16.0 | 64.7 | Compliance |
| 0.183065 | 48.2 | 9.000 | N | 9.7 | 16.1 | 64.3 | Compliance |
| 0.196675 | 45.7 | 9.000 | N | 9.7 | 18.0 | 63.7 | Compliance |

| Frequency (MHz) | Average (dBµV) | Bandwidth (kHz) | Line | Corr. (dB) | Margin (dB) | Limit (dBµV) | Comment |
|--------------------|-------------------|-----------------|------|------------|-------------|--------------|------------|
| 0.150000 | 29.3 | 9.000 | N | 9.7 | 26.7 | 56.0 | Compliance |
| 0.174519 | 29.1 | 9.000 | N | 9.7 | 25.6 | 54.7 | Compliance |
| 0.190505 | 27.3 | 9.000 | N | 9.7 | 26.7 | 54.0 | Compliance |
| 0.199835 | 29.5 | 9.000 | N | 9.7 | 24.1 | 53.6 | Compliance |
| 0.468757 | 31.5 | 9.000 | N | 9.7 | 15.0 | 46.5 | Compliance |
| 1.524426 | 22.4 | 9.000 | N | 9.8 | 23.6 | 46.0 | Compliance |

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FCC§15.255(b) - Equivalent Isotropically Radiated Power (EIRP)

Applicable Standard

(b) Within the 57-64 GHz band, emission levels shall not exceed the following equivalent isotropically radiated power (EIRP):

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- (1) Products other than fixed field disturbance sensors shall comply with one of the following emission limits, as measured during the transmit interval:
- (i) Except as indicated in paragraph (b)(1)(ii) of this section, the average power of any emission shall not exceed 40 dBm and the peak power of any emission shall not exceed 43 dBm.
- (ii) For transmitters located outdoors, the average power of any emission shall not exceed 82 dBm minus 2 dB for every dB that the antenna gain is less than 51 dBi. The peak power of any emission shall not exceed 85 dBm minus 2 dB for every dB that the antenna gain is less than 51 dBi. The provisions of §15.204(c)(2) and (c)(4) of this part that permit the use of different antennas of the same type and of equal or less directional gain do not apply to intentional radiator systems operating under this provision. In lieu thereof, intentional radiator systems shall be certified using the specific antenna(s) with which the system will be marketed and operated. Compliance testing shall be performed using the highest gain and the lowest gain antennas for which certification is sought and with the intentional radiator operated at its maximum available output power level. The responsible party, as defined in §2.909 of this chapter, shall supply a list of acceptable antennas with the application for certification.
- (2) For fixed field disturbance sensors that occupy 500 MHz or less of bandwidth and that are contained wholly within the frequency band 61.0-61.5 GHz, the average power of any emission, measured during the transmit interval, shall not exceed 40 dBm, and the peak power of any emission shall not exceed 43 dBm. In addition, the average power of any emission outside of the 61.0-61.5 GHz band, measured during the transmit interval, but still within the 57-64 GHz band, shall not exceed 10 dBm, and the peak power of any emission shall not exceed 13 dBm.
- (3) For fixed field disturbance sensors other than those operating under the provisions of paragraph (b)(2) of this section, the peak transmitter conducted output power shall not exceed -10 dBm and the peak EIRP level shall not exceed 10 dBm.
- (4) The peak power shall be measured with an RF detector that has a detection bandwidth that encompasses the 57-64 GHz band and has a video bandwidth of at least 10 MHz. The average emission levels shall be calculated based on the measured peak levels, over the actual time period during which transmission occurs. Measurement procedures that have been found to be acceptable to the Commission in accordance with §2.947 of this chapter may be used to demonstrate compliance.

Test Procedure

Refer to ANSI C63.10-2013 Clause 9.10

Maximizing procedure was performed on the highest emissions to ensure that the EUT complied with all installation combinations.

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Data was recorded in peak and Average detection modes for frequencies above 1 GHz.

Environmental Conditions

| Temperature: | 21.8 °C |
|---------------------------|-----------|
| Relative Humidity: | 45 % |
| ATM Pressure: | 101.4 kPa |

Test Data

Please refer to the following table:

Test Mode: Transmitting

| Frequency | Re Reading | ceiver Detector | Rx A | Rx Antenna Polar Factor | | EIPR Power | Limit |
|-----------|------------|--------------------|------|-------------------------|-----------|---------------|-------|
| GHz | | | H/V | 1 | Amplitude | dBm | dBm |
| GHZ | dΒμV | PK/QP/AV | П/ V | dB(1/m) | dBμV/m | abiii | abin |
| 60.163 | 90.92 | PK | Н | 42.62 | 133.54 | 28.84 | 43.00 |
| 60.163 | 77.00 | AV | Н | 42.62 | 119.62 | 14.92 | 40.00 |
| 60.797 | 90.72 | PK | Н | 42.74 | 133.46 | 28.76 | 43.00 |
| 60.797 | 76.54 | AV | Н | 42.74 | 119.28 | 14.58 | 40.00 |
| 62.957 | 91.52 | PK | Н | 43.15 | 134.67 | 29.97 | 43.00 |
| 62.957 | 77.67 | AV | Н | 43.15 | 120.82 | 16.12 | 40.00 |

Note 1:

EIRP = E-meas +20log(d-meas)-104.7

where:

EIRP: is the equivalent isotopically radiated power, in dBm

E-meas. : is the field strength of the emission at the measurement distance, in dBµV/m

d-meas. : is the measurement distance, in m

Note 2:The test distance is 1.0 m.

Note 3:Corrected Amplitude = Meter Reading + Antenna Factor

Note 4: The Mixers and it's RF cables is compose a system for calibration, the conversion factor was added into the test Spectrum Analyzer in testing.

Note 5: the test data recorded was the maximum polarization.

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FCC§15.255(e)- Occupied Bandwidth

Applicable Standard

For the purposes of this paragraph (e)(1), emission bandwidth is defined as the instantaneous frequency range occupied by a steady state radiated signal with modulation, outside which the radiated power spectral density never exceeds 6 dB below the maximum radiated power spectral density in the band, as measured with a 100 kHz resolution bandwidth spectrum analyzer. The center frequency must be stationary during the measurement interval, even if not stationary during normal operation (e.g., for frequency hopping devices).

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Test Procedure

Refer to ANSI C63.10-2013 Clause 6.9 & 9.3

Environmental Conditions

| Temperature: | 21.8 °C |
|--------------------|-----------|
| Relative Humidity: | 45 % |
| ATM Pressure: | 101.4 kPa |

Test Data

Please refer to the following tables and plots:

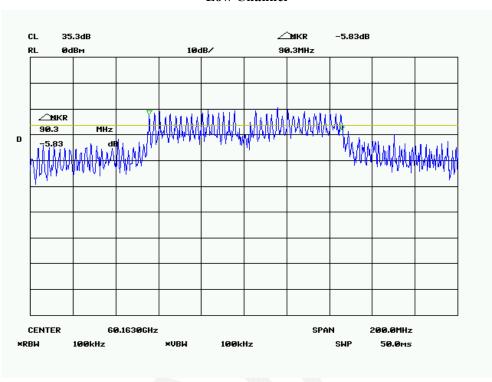
Test Mode: Transmitting

| Channel | Frequency | 6 dB Bandwidth | 99% Bandwidth | |
|---------|-----------|-------------------|------------------|--|
| | (MHz) | (MHz) | (MHz) | |
| Low | 60163 | 90.30 | 259.20 | |
| Middle | 60797 | 91.00 | 270.00 | |
| High | 62957 | 90.00 | 276.70 | |

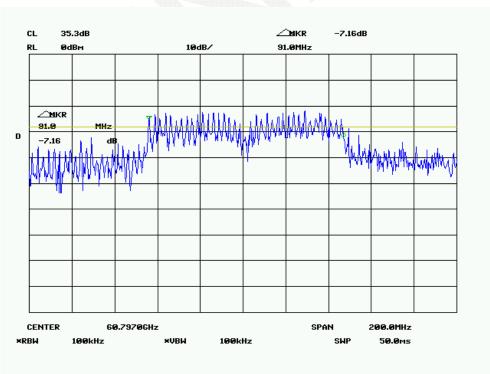
6dB Bandwidth

Low Channel

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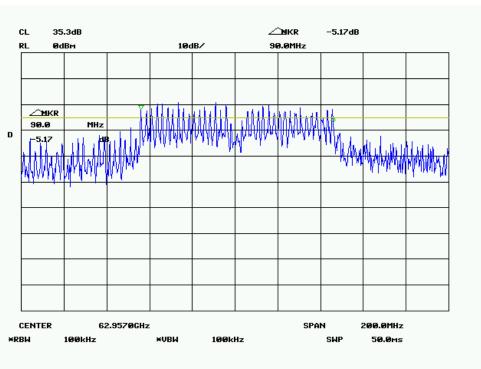
Middle Channel



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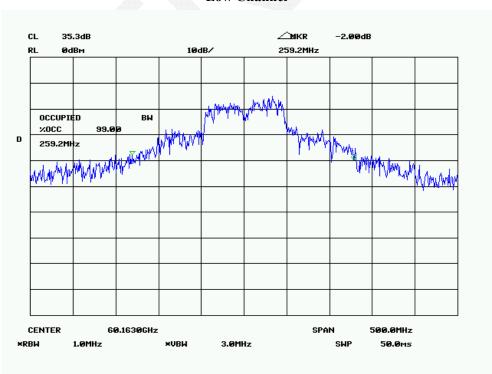
High Channel

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99% Bandwidth

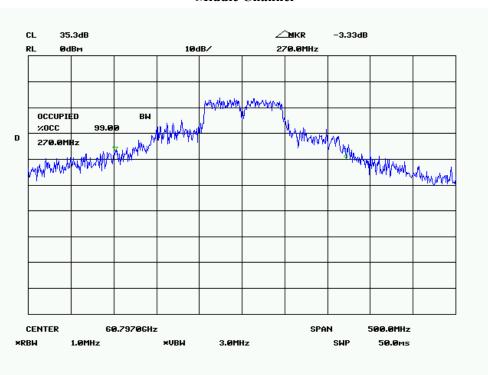
Low Channel



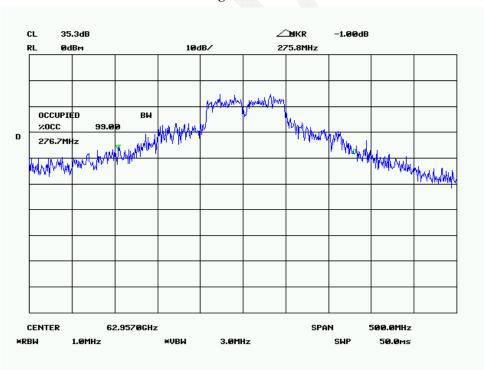
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Middle Channel

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High Channel



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FCC§15.255(e) –PEAK CONDUCTED OUTPUT POWER

Applicable Standard

Except as specified paragraph (e)(1) of this section, the peak transmitter conducted output power shall not exceed 500 mW. Depending on the gain of the antenna, it may be necessary to operate the intentional radiator using a lower peak transmitter output power in order to comply with the EIRP limits specified in paragraph (b) of this section.

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- (1) Transmitters with an emission bandwidth of less than 100 MHz must limit their peak transmitter conducted output power to the product of 500 mW times their emission bandwidth divided by 100 MHz. For the purposes of this paragraph, emission bandwidth is defined as the instantaneous frequency range occupied by a steady state radiated signal with modulation, outside which the radiated power spectral density never exceeds 6 dB below the maximum radiated power spectral density in the band, as measured with a 100 kHz resolution bandwidth spectrum analyzer. The center frequency must be stationary during the measurement interval, even if not stationary during normal operation (e.g., for frequency hopping devices).
- (2) Peak transmitter conducted output power shall be measured with an RF detector that has a detection bandwidth that encompasses the 57-64 GHz band and that has a video bandwidth of at least 10 MHz. Measurement procedures that have been found to be acceptable to the Commission in accordance with §2.947 of this chapter may be used to demonstrate compliance.
- (3) For purposes of demonstrating compliance with this paragraph, corrections to the transmitter conducted output power may be made due to the antenna and circuit loss.

Test Procedure

Refer to ANSI C63.10-2013 Clause 9.7: equation to calculate power output.

Environmental Conditions

| Temperature: | 21.8 °C |
|---------------------------|-----------|
| Relative Humidity: | 45 % |
| ATM Pressure: | 101.4 kPa |

Test Data

Please refer to the following table:

Test Mode: Transmitting

| Frequency | Peak EIPR Power | Antenna Gain | Peak conducted power | 6dB OBW | Limit | Margin |
|-----------|-----------------------|-----------------|----------------------------|------------|-------|--------|
| GHz | dBm | dBi | dBm | MHz | dBm | dB |
| 60.163 | 28.84 | 16 | 12.84 | 90.3 | 26.55 | 13.71 |
| 60.797 | 28.76 | 16 | 12.76 | 91 | 26.58 | 13.82 |
| 62.957 | 29.97 | 16 | 12.97 | 90 | 26.53 | 13.56 |

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Note 1: The EUT used for integral antenna without temporary RF connector provided, so Peak conducted power is equal to Peak EIRP Power substract the antenna gain.

Note 2: EIRP Power refer to §15.255 (b)

Note3: For radiated emissions measurements, calculated transmitter conducted output power P(con) = EIRP-Antenna gain(dBi)

Note4: EUT operating in LRP mode with an emission bandwidth of less than 100 MHz, therefore the limit of its peak transmitter conducted output power is: 10*lg(500*(BW/100)) dBm Here, BW is 6 dB OBW.

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FCC§15.205, §15.209&§15.255(c)- TRANSMITTER SPURIOUS EMISSIONS

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Applicable Standard

- (c) Limits on spurious emissions:
- (1) The power density of any emissions outside the 57-64 GHz band shall consist solely of spurious emissions.
- (2) Radiated emissions below 40 GHz shall not exceed the general limits in §15.209.
- (3) Between 40 GHz and 200 GHz, the level of these emissions shall not exceed 90 pW/cm² at a distance of 3 meters.
- (4) The levels of the spurious emissions shall not exceed the level of the fundamental emission.

Measurement Uncertainty

Compliance or non- compliance with a disturbance limit shall be determined in the following manner:

If U_{lab} is less than or equal to U_{cispr} of Table 1, then:

- compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit;
- non compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit. If U_{lab} is greater than U_{cispr} of Table 1, then:
- compliance is deemed to occur if no measured disturbance level, increased by $(U_{lab} U_{cispr})$, exceeds the disturbance limit;
- non compliance is deemed to occur if any measured disturbance level, increased by $(U_{\text{lab}} U_{\text{cispr}})$, exceeds the disturbance limit.

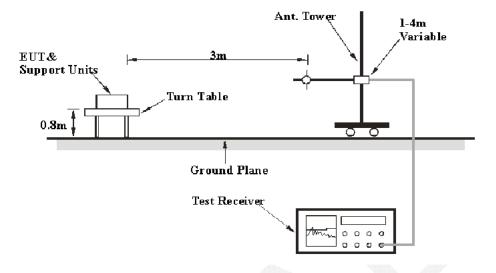
Based on CISPR 16-4-2: 2011, measurement uncertainty of radiated emission at a distance of 3m at Bay Area Compliance Laboratories Corp. (Dongguan) is: 30M~200MHz: 4.58 dB for Horizontal, 4.59 dB for Vertical; 200M~1GHz: 4.83 dB for Horizontal, 5.85 dB for Vertical; 1G~6GHz: 4.45 dB, 6G~18GHz: 5.23 dB

Table 1 – Values of U_{cispr}

| Measurement | | | | | | |
|--|--------|--|--|--|--|--|
| Radiated disturbance (electric field strength at an OATS or in a SAC) (30 MHz to 1000 MHz) | 6.3 dB | | | | | |
| Radiated disturbance (electric field strength in a FAR) (1 GHz to 6 GHz) | 5.2 dB | | | | | |
| Radiated disturbance (electric field strength in a FAR) (6 GHz to 18 GHz) | 5.5 dB | | | | | |

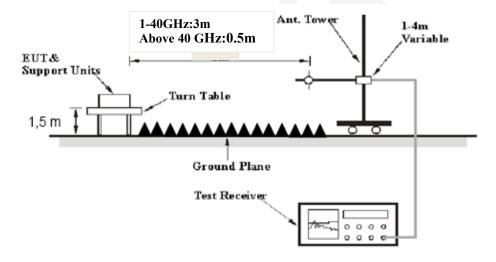
EUT Setup

Below 1 GHz:



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Above 1 GHz:



The radiated emission and out of band emission tests were performed in the 3 meters chamber test site, using the setup accordance with the ANSI C63.10-2013 The specification used was the FCC 15.209/15.205 and FCC 15.255 limits.

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Test Equipment Setup

The system was investigated from 30 MHz to 200 GHz.

During the radiated emission test, the EMI test receiver & Spectrum Analyzer Setup were set with the following configurations:

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| Frequency Range | RBW | Video B/W | IF B/W | Detector |
|-------------------|---------|-----------|---------|----------|
| 30 MHz – 1000 MHz | 120 kHz | 300 kHz | 120 kHz | QP |
| 1 40 CH | 1MHz | 3 MHz | / | PK |
| 1-40 GHz | 1MHz | 10 Hz | / | Ave |
| 40 GHz – 200 GHz | 1MHz | 3 MHz | / | PK |

Test Procedure

Refer to ANSI C63.10-2013 Clause 9.9&9.12&9.13

Maximizing procedure was performed on the highest emissions to ensure that the EUT complied with all installation combinations.

All data was recorded in the Quasi-peak detection mode from 30 MHz to 1GHz, peak and average detection mode above 1 GHz to 40 GHz, peak detection mode from 40GHz-200GHz.

Environmental Conditions

| Temperature: | 21.3 °C |
|--------------------|-----------|
| Relative Humidity: | 52% |
| ATM Pressure: | 101.4 kPa |

Test Data

Please refer to the following table:

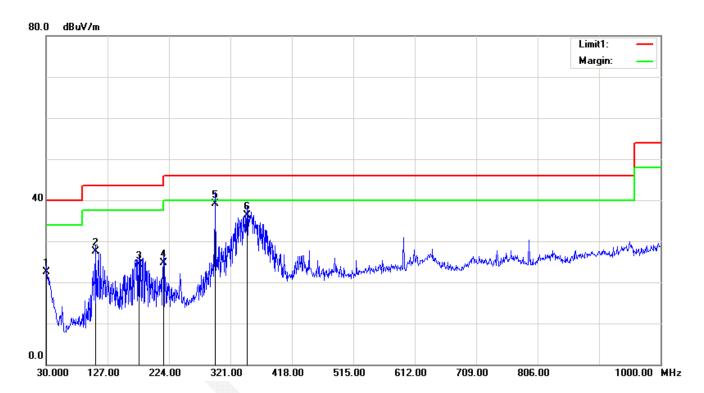
Test Mode: Transmitting(USB operating mode is the worst case)

30MHz-1GHz(Middle Channel)

Horizontal

| No | Frequency | Reading | Detector | Corrected | Result | Limit | Margin |
|-----|-----------|----------|----------|-----------|----------|----------|--------|
| No. | (MHz) | (dBuV/m) | Detector | dB/m | (dBuV/m) | (dBuV/m) | (dB) |
| 1 | 30.0000 | 19.12 | QP | 3.38 | 22.50 | 40.00 | 17.50 |
| 2 | 108.5700 | 35.19 | QP | -7.59 | 27.60 | 43.50 | 15.90 |
| 3 | 176.4700 | 32.64 | QP | -8.34 | 24.30 | 43.50 | 19.20 |
| 4 | 215.2700 | 33.84 | QP | -9.04 | 24.80 | 43.50 | 18.70 |
| 5 | 296.7500 | 45.19 | QP | -5.99 | 39.20 | 46.00 | 6.80 |
| 6 | 347.1900 | 41.46 | QP | -5.06 | 36.40 | 46.00 | 9.60 |

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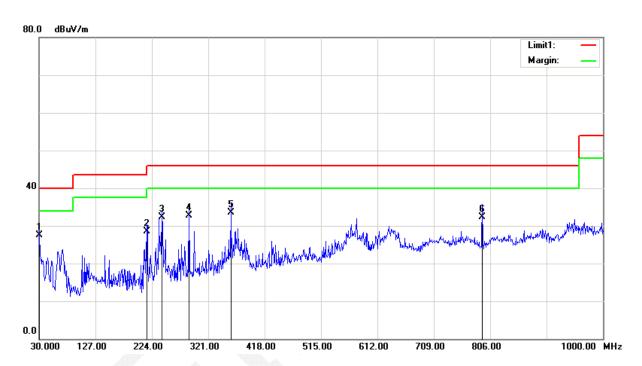


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Vertical:

| NI. | Frequency | Reading | D-44 | Corrected | Result | Limit | Margin |
|-----|-----------|----------|----------|-----------|----------|----------|--------|
| No. | (MHz) | (dBuV/m) | Detector | dB/m | (dBuV/m) | (dBuV/m) | (dB) |
| 1 | 30.0000 | 24.12 | QP | 3.38 | 27.50 | 40.00 | 12.50 |
| 2 | 215.2700 | 37.64 | QP | -9.04 | 28.60 | 43.50 | 14.90 |
| 3 | 241.4600 | 40.23 | QP | -7.93 | 32.30 | 46.00 | 13.70 |
| 4 | 288.0200 | 38.80 | QP | -6.10 | 32.70 | 46.00 | 13.30 |
| 5 | 359.8000 | 38.12 | QP | -4.52 | 33.60 | 46.00 | 12.40 |
| 6 | 792.4200 | 30.29 | QP | 2.11 | 32.40 | 46.00 | 13.60 |

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1GHz~40GHz:

| | Reco | eiver | Rx | Antenna | Cable | Amplifier | Corrected | | |
|--------------------|----------------|----------|----------------|------------------|--------------|--------------|--------------------|-------------------|----------------|
| Frequency (MHz) | Reading (dBµV) | Detector | Polar (H/V) | Factor (dB(1/m)) | loss (dB) | Gain (dB) | Amplitude (dBµV/m) | Limit (dBµV/m) | Margin (dB) |
| | | | | Frequency: | 60163 N | MHz | | | |
| 1782 | 46.7 | PK | Н | 26.89 | 2.61 | 27.56 | 48.64 | 74.00 | 25.36 |
| 1782 | 34.55 | AV | Н | 26.89 | 2.61 | 27.56 | 36.49 | 54.00 | 17.51 |
| 2079.5 | 42.39 | PK | Н | 27.69 | 3.30 | 27.40 | 45.98 | 74.00 | 28.02 |
| 2079.5 | 30.12 | AV | Н | 27.69 | 3.30 | 27.40 | 33.71 | 54.00 | 20.29 |
| 2963.5 | 38.05 | PK | Н | 30.65 | 6.66 | 27.54 | 47.82 | 74.00 | 26.18 |
| 2963.5 | 25.87 | AV | Н | 30.65 | 6.66 | 27.54 | 35.64 | 54.00 | 18.36 |
| 24920 | 42.33 | PK | Н | 35.68 | 14.98 | 36.72 | 56.27 | 74.00 | 17.73 |
| 24920 | 30.18 | AV | Н | 35.68 | 14.98 | 36.72 | 44.12 | 54.00 | 9.88 |
| 24130 | 41.83 | PK | Н | 35.40 | 14.01 | 37.08 | 54.16 | 74.00 | 19.84 |
| 24130 | 29.62 | AV | Н | 35.40 | 14.01 | 37.08 | 41.95 | 54.00 | 12.05 |
| | | | | Frequency: | 60797N | MHz | | | |
| 1782 | 46.5 | PK | Н | 26.89 | 2.61 | 27.56 | 48.44 | 74.00 | 25.56 |
| 1782 | 34.26 | AV | Н | 26.89 | 2.61 | 27.56 | 36.20 | 54.00 | 17.80 |
| 2079.5 | 42.11 | PK | Н | 27.69 | 3.30 | 27.40 | 45.70 | 74.00 | 28.30 |
| 2079.5 | 30.25 | AV | Н | 27.69 | 3.30 | 27.40 | 33.84 | 54.00 | 20.16 |
| 2963.5 | 37.24 | PK | Н | 30.65 | 6.66 | 27.54 | 47.01 | 74.00 | 26.99 |
| 2963.5 | 24.19 | AV | Н | 30.65 | 6.66 | 27.54 | 33.96 | 54.00 | 20.04 |
| 24920 | 43.22 | PK | Н | 35.68 | 14.98 | 36.72 | 57.16 | 74.00 | 16.84 |
| 24920 | 31.29 | AV | Н | 35.68 | 14.98 | 36.72 | 45.23 | 54.00 | 8.77 |
| 24130 | 42.26 | PK | Н | 35.40 | 14.01 | 37.08 | 54.59 | 74.00 | 19.41 |
| 24130 | 28.72 | AV | H | 35.40 | 14.01 | 37.08 | 41.05 | 54.00 | 12.95 |
| | | | | Frequency: | 62957N | | | | |
| 1782 | 45.22 | PK | Н | 26.89 | 2.61 | 27.56 | 47.16 | 74.00 | 26.84 |
| 1782 | 36.02 | AV | H | 26.89 | 2.61 | 27.56 | 37.96 | 54.00 | 16.04 |
| 2079.5 | 41.97 | PK | Н | 27.69 | 3.30 | 27.40 | 45.56 | 74.00 | 28.44 |
| 2079.5 | 30.58 | AV | Н | 27.69 | 3.30 | 27.40 | 34.17 | 54.00 | 19.83 |
| 2963.5 | 34.26 | PK | Н | 30.65 | 6.66 | 27.54 | 44.03 | 74.00 | 29.97 |
| 2963.5 | 26.94 | AV | Н | 30.65 | 6.66 | 27.54 | 36.71 | 54.00 | 17.29 |
| 24920 | 42.1 | PK | Н | 35.68 | 14.98 | 36.72 | 56.04 | 74.00 | 17.96 |
| 24920 | 29.59 | AV | Н | 35.68 | 14.98 | 36.72 | 43.53 | 54.00 | 10.47 |
| 24130 | 41.26 | PK | Н | 35.40 | 14.01 | 37.08 | 53.59 | 74.00 | 20.41 |
| 24130 | 29.41 | AV | Н | 35.40 | 14.01 | 37.08 | 41.74 | 54.00 | 12.26 |

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Note 1:The Corrected Amplitude is calculated by adding the Antenna Factor and Cable Loss, and subtracting the Amplifier Gain from the Meter Reading. The basic equation is as follows:

 $Corrected\ Amplitude = Meter\ Reading + Antenna\ Factor + Cable\ Loss-Amplifier\ Gain$

Note 2:The "Margin" column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of 7dB means the emission is 7dB below the limit. The equation for margin calculation is as follows:

Margin = Limit -Corrected Amplitude

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40GHz~200GHz:

| Frequency | Receiver | | Rx Antenna | | Corrected | EIPR | Power | Limit | |
|-----------|----------------------|----------|------------|------------|-----------|--------|-------------|---------|--|
| 1 0 | Reading | Detector | Polar | Factor | Amplitude | Power | wer Density | | |
| GHz | dΒμV | PK/QP/AV | H/V | dB(1/m) | dBμV/m | dBm | pW/cm^2 | pW/cm^2 | |
| | Frequency: 60163 MHz | | | | | | | | |
| 50.8 | 40.65 | PK | Н | 40.88 | 81.53 | -29.19 | 1.0659 | 90.00 | |
| 88.94 | 51.57 | PK | Н | 48.00 | 99.57 | -11.15 | 67.8747 | 90.00 | |
| | | | Freque | ency: 6079 | 7MHz | | | | |
| 50.8 | 40.55 | PK | Н | 40.88 | 81.43 | -29.29 | 1.0416 | 90.00 | |
| 88.94 | 51.29 | PK | Н | 48.00 | 99.29 | -11.43 | 63.6367 | 90.00 | |
| | Frequency: 62957MHz | | | | | | | | |
| 50.8 | 40.21 | PK | Н | 40.88 | 81.09 | -29.63 | 0.9632 | 90.00 | |
| 88.94 | 52.28 | PK | Н | 48.00 | 100.28 | -10.44 | 79.9296 | 90.00 | |

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Note 1:

EIRP = E-meas +20log(d-meas)-104.7

where:

EIRP: is the equivalent isotopically radiated power, in dBm

E-meas. : is the field strength of the emission at the measurement distance, in dBµV/m

d-meas. : is the measurement distance, in m

Note 2:The test distance is 0.5 m.

Note 3: Corrected Amplitude = Meter Reading + Antenna Factor

Note 4: The Mixers and it's RF cables is compose a system for calibration, the conversion factor was added into the test Spectrum Analyzer in testing.

Note 5:

$$PD = \frac{EIRP_{Linear}}{4\pi d^2}$$

where

PD is the power density at the distance specified by the limit, in W/m²

EIRP_{Linear} is the equivalent isotropically radiated power, in watts

d is the distance at which the power density limit is specified, in m

The Specified distance is 3m.

FCC§15.255(f) - FREQUENCY STABILITY

Applicable Standard

Fundamental emissions must be contained within the frequency bands specified in this section during all conditions of operation. Equipment is presumed to operate over the temperature range –20 to +50 degrees Celsius with an input voltage variation of 85% to 115% of rated input voltage, unless justification is presented to demonstrate otherwise.

Report No.: RDG160322008-00

Test Procedure

Refer to ANSI C63.10-2013 Clause 9.14

Environmental Conditions

| Temperature: | 21.6°C |
|--------------------|-----------|
| Relative Humidity: | 48 % |
| ATM Pressure: | 101.4 kPa |

Test Data

Please refer to the following table:

| Temperature | Voltage | Frequency (MHz) | | | | | | |
|-------------|-----------------|----------------------------------|-----------------------------------|-------------------------|-------------------------|--|--|--|
| c | V _{DC} | f _L at Low Channel | f _H at High Channel | f _L Limit | f _H Limit | | | |
| -20 | 12 | 60118 | 63005 | 57000 | 64000 | | | |
| -10 | 12 | 60117 | 63004 | 57000 | 64000 | | | |
| 0 | 12 | 60120 | 63002 | 57000 | 64000 | | | |
| 10 | 12 | 60116 | 63006 | 57000 | 64000 | | | |
| 20 | 12 | 60118 | 63007 | 57000 | 64000 | | | |
| 30 | 12 | 60119 | 63001 | 57000 | 64000 | | | |
| 40 | 12 | 60121 | 63009 | 57000 | 64000 | | | |
| 50 | 12 | 60118 | 63003 | 57000 | 64000 | | | |
| 25 | 7.4 | 60117 | 63005 | 57000 | 64000 | | | |
| 25 | 18 | 60115 | 63004 | 57000 | 64000 | | | |

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FCC§15.255(d) – PUBLICLY-ACCESSIBLE COORDINATION CHANNEL

Report No.: RDG160322008-00

Applicable Standard

Only spurious emissions and transmissions related to a publicly-accessible coordination channel, whose purpose is to coordinate operation between diverse transmitters with a view towards reducing the probability of interference throughout the 57-64 GHz band, are permitted in the 57-57.05 GHz band.

Note to paragraph (d): The 57-57.05 GHz is reserved exclusively for a publicly-accessible coordination channel. The development of standards for this channel shall be performed pursuant to authorizations issued under part 5 of this chapter.

Test Procedure

Refer to ANSI C63.10-2013 Clause 9.12

Test result

NO emission was detected within 57-57.05GHz band.

§15.255(a) (h)- OPERATION RESTRICTION AND GROUP INSTALLTION

Report No.: RDG160322008-00

Applicable Standard

§15.255 (a) Operation under the provisions of this section is not permitted for the following products:

(1) Equipment used on aircraft or satellites.

(2) Field disturbance sensors, including vehicle radar systems, unless the field disturbance sensors are employed for fixed operation. For the purposes of this section, the reference to fixed operation includes field disturbance sensors installed in fixed equipment, even if the sensor itself moves within the equipment.

§15.255 (h) Any transmitter that has received the necessary FCC equipment authorization under the rules of this chapter may be mounted in a group installation for simultaneous operation with one or more other transmitter(s) that have received the necessary FCC equipment authorization, without any additional equipment authorization. However, no transmitter operating under the provisions of this section may be equipped with external phase-locking inputs that permit beam-forming arrays to be realized.

Result of Operation Restriction

Manufacturer declares that EUT will not been used on aircraft or satellites. Then user manual will include a statement to caution EUT is not permitted for used on aircraft or satellites. EUT is a wireless video area network (WVAN) for the connection of consumer electronic (CE) audio and video devices.

Result of Group installation

The frequency, amplitude and phase of the transmit sign al are set within the EUT. There are no external phase-locking inputs or any other means of combining two or more units together to realize a beamforming array

***** END OF REPORT *****

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