

EMC TEST REPORT

Report Number: 102011503ATL-001

Project Number: G102011503

Report Issue Date: May 6, 2015

Product Designation:

Model tested: Wireless Professional

Manufacturer Declared Equivalent Product Designations:

Model not tested: SP8.0, SP6.0, Fit5.0 and Wireless USA

Standards: CFR47 FCC Part 15 Subpart C:2015 Section 15.205, 15.209, 15.215, 15.249
CFR47 FCC Part 15 Subpart B:2015 Section 15.109
Industry Canada RSS-210 Issue 8 December 2010, Annex A2.9
Industry Canada RSS-GEN Issue 4 November 2014

Tested by:
Intertek Testing Services NA, Inc.
1950 Evergreen Blvd, Suite 100
Duluth, GA 30096 USA

Client:
DJO LLC
1430 Decision Street
Vista, CA 92081
USA

Report prepared by



Mary Sampson/Senior Project Engineer

Report reviewed by



Krishna Vemuri/Senior Staff Engineer

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1 Introduction and Conclusion

The tests indicated in section 2.0 were performed on the product constructed as described in section 4.0. The remaining test sections are the verbatim text from the actual data sheets used during the investigation. These test sections include the test name, the specified test Method, a list of the actual Test Equipment Used, documentation Photos, Results and raw Data. No additions, deviations, or exclusions have been made from the standard(s) unless specifically noted.

Based on the results of our investigation, we have concluded the product tested **complies** with the requirements of the standard(s) indicated. The results obtained in this test report pertain only to the item(s) tested.

2 Test Summary

| Section | Test full name | Result |
|---------|--|--------|
| 3 | Client Information | |
| 4 | Description of Equipment Under Test | |
| 5 | System Setup and Method | |
| 6 | Fundamental Frequency Radiated Emissions (47CFR Part 15 Subpart C: 2015 Section 15.249 RSS-210 Issue 8 Dec 2010 Annex A2.9) | Pass |
| -- | AC Mains Conducted Emissions (Battery Powered Device) | N/A |
| 7 | Transmitter Spurious Radiated Emissions (47CFR Part 15 Subpart C: 2015 Section 15.249, 15.209, 15.205 RSS-210 Issue 8 Dec 2010 Annex A2.9) | Pass |
| 8 | Duty Cycle (47CFR Part 15 Subpart A: 2015 Section 15.35(c) RSS-GEN Issue 4: Nov 2014 Section 6.10) | Pass |
| 9 | 20 dB Bandwidth (47CFR Part 15 Subpart C: 2015 Section 15.215 RSS-GEN Issue 4:Nov 2014 Section 6.6) | Pass |
| 10 | Bandedge (Band Edge (47CFR FCC Part 15 Subpart C: 2015 Section 15.215(c), 15.249(d); RSS-210 Issue 8: Dec 2010 Annex A2.9) | Pass |
| 11 | Digital Parts Emissions (47CFR Part 15 Subpart B: 2015 Section 15.109 RSS-GEN Issue 4:Nov 2014 Section 6.6) | Pass |
| 12 | RF Exposure(47CFR Part 2 Subpart J:2015 Section 2.1091; RSS- 102 Issue 4 Mar 2010 Section 2.5.1) | Pass |
| 13 | Revision History | |

3 Client Information

This EUT was tested at the request of:

Client: DJO LLC
1430 Decision Street
Vista, CA 92081
USA
Contact: Mark Stavro
Telephone: (760) 734-3551
Fax: (760) 734-5694
Email: mark.stavro@djoglobal.com

4 Description of Equipment Under Test

Manufacturer: DJO LLC
1430 Decision Street
Vista, CA 92081
USA

| Equipment Under Test | | | |
|---|--------------|--------------|---------------|
| Description | Manufacturer | Model Number | Serial Number |
| Wireless Professional Remote Controller | DJO | 00300 | YNP000712 |
| | | | |
| | | | |

| | |
|---------------------|------------|
| Receive Date: | 10/15/2014 |
| Received Condition: | Good |
| Type: | Production |

Description of Equipment Under Test (provided by client)

The Wireless Professional Remote Controller is a muscle stimulator which uses wireless communication to control up to four muscle stimulators. The Wireless Pro can be used by a healthy person for the purposes of pain relief, muscle conditioning, muscle warmup and muscle recovery.

Per the client, the Compex Wireless Professional Remote Controller, SP8.0, SP6.0, Fit5.0 and Wireless USA all use the same radio board and transmitter protocol, the only difference is the color and firmware.

| Equipment Under Test Power Configuration | | | |
|--|----------------------------------|-----------------|------------------|
| Rated Voltage | Rated Current | Rated Frequency | Number of Phases |
| 3.7 Vdc | 1500 mAh Max Charging = 1.5 A | N/A | N/A |

Operating modes of the EUT:

| No. | Descriptions of EUT Exercising |
|-----|--------------------------------|
| 1 | Continuous transmission |
| 2 | Idle |

Software used by the EUT:

| No. | Descriptions of EUT Exercising |
|-----|---------------------------------|
| 1 | Firmware version: 0209x1DC5F303 |

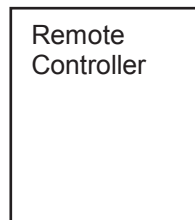
5 System Setup and Method

| Cables | | | | | |
|--------|-------------|---------------|-----------|----------|-------------|
| ID | Description | Length (m) | Shielding | Ferrites | Termination |
| None | | | | | |

| Support Equipment | | | |
|-------------------|--------------|--------------|---------------|
| Description | Manufacturer | Model Number | Serial Number |
| None | | | |

5.1 Method:

Configuration as required by CFR47 FCC Part 15 Subpart C:2015 Sections 15.205, 15.209, 15.215, 15.249, Industry Canada RSS-210 Issue 8 December 2010, Annex A2.9, Industry Canada RSS-GEN Issue 4 November 2014, and ANSI C63.10-2013.

5.2 EUT Block Diagram:

6 Fundamental Frequency Radiated Emissions

6.1 Method

Tests are performed in accordance with 47CFR Part 15 Subpart C:2015 Section 15.249, RSS-210 Issue 8 Annex A2.9, and ANSI C63.10:2013.

TEST SITE: 10m Semi-Anechoic Chamber

10 Meter Semi-Anechoic Chamber The test site for radiated emissions is located at 1950 Evergreen Blvd, Suite 100, Duluth, Georgia 30096. It is a 10 meter semi-anechoic chamber manufactured by Panashield. Embedded in the floor is a 3 meter diameter turntable.

Measurement Uncertainty

For radiated emissions, U_{lab} (3.9 dB at 3m and 3.6 dB at 10m below 1 GHz, and 4.2 dB at 3m above 1 GHz) $< U_{CISPR}$ (5.2 dB), which is the reference value in CISPR 16-4-2 Table 1, hence the compliance of the product is only based on the measured value, and no measurement uncertainty correction is required, based on CISPR 22 and CISPR 11 (for 2006 and later revisions) Clause 11.

Sample Calculation

The field strength is calculated by adding the Antenna Factor and Cable Factor, and subtracting the Amplifier Gain (if any) from the measured reading. The basic equation with a sample calculation is as follows:

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

Where

- FS = Field Strength in dB μ V/m
- RA = Receiver Amplitude (including preamplifier) in dB μ V
- CF = Cable Attenuation Factor in dB
- AF = Antenna Factor in dB
- AG = Amplifier Gain in dB

In the following table(s), the reading shown on the data table reflects the preamplifier gain. An example for the calculations in the following table is as follows.

Assume a receiver reading of 52.0 dB μ V is obtained. The antenna factor of 7.4 dB and cable factor of 1.6 dB is added. The amplifier gain of 29 dB is subtracted, giving a field strength of 32 dB μ V/m. This value in dB μ V/m was converted to its corresponding level in μ V/m.

RA = 52.0 dB μ V
 AF = 7.4 dB/m
 CF = 1.6 dB
 AG = 29.0 dB
 FS = 32 dB μ V/m

To convert from dB μ V to μ V or mV the following was used:

$$UF = 10^{(NF / 20)} \text{ where } UF = \text{Net Reading in } \mu\text{V}$$

NF = Net Reading in dB μ V

Example:

$$FS = RA + AF + CF - AG = 52.0 + 7.4 + 1.6 - 29.0 = 32.0$$

$$UF = 10^{(32 \text{ dB}\mu\text{V} / 20)} = 39.8 \mu\text{V/m}$$

6.2 Test Equipment Used:

| Asset | Description | Manufacturer | Model | Serial | Cal Date | Cal Due |
|----------|--|-----------------|---------------|-------------|------------|------------|
| 200162; | EMI Receiver (20Hz-40GHz) | Rohde & Schwarz | ESU 40 | 100314 | 03/02/2015 | 03/02/2016 |
| 211872; | Barometer, Temperature, and Humidity sensor - Network based. Also marked as iServer MicroServer. | Omega | iBTHX-W | 0240116 | 11/07/2014 | 11/07/2015 |
| 213061; | Antenna, Horn, <18 GHz | EMCO | 3115 | 9208-3919 | 07/22/2014 | 07/22/2015 |
| MP1; | Cable MP1, 18 GHz, N, 394 inches | Megaphase | G919-NKNK-310 | MP1 | 11/14/2014 | 11/14/2015 |
| MP3; | Cable MP3, 18 GHz, N, 10m | Megaphase | G919-NKNK-394 | MP3 | 05/08/2014 | 05/08/2015 |
| MP-HF-2; | Cable, 3-meters, 1-18GHz | Megaphase | EM18-N1N1-119 | 12090601002 | 08/26/2014 | 08/26/2015 |

Software Utilized:

| Name | Manufacturer | Version |
|-----------------------------------|--------------|---------|
| None (Spectrum Analyzer Firmware) | | |
| | | |

6.3 Results:

FCC Part 15 Section 15.249

| Fundamental Frequency (MHz) | Field strength of fundamental (millivolts/meter) | Field strength of harmonics (microvolts/meter) |
|-----------------------------|--|--|
| 902-928 MHz | 50 | 500 |
| 2400-2483.5 MHz | 50 | 500 |
| 5725-5875 MHz | 50 | 500 |
| 24.0-24.25 GHz | 250 | 2500 |

Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in §15.209, whichever is the lesser attenuation.

IC RSS-210 Section A2.9

| Fundamental Frequency (MHz) | Field strength (millivolts/meter) | |
|-----------------------------|-----------------------------------|-----------|
| | Fundamental | Harmonics |
| 902-928 MHz | 50 | 0.5 |
| 2400-2483.5 MHz | 50 | 0.5 |
| 5725-5875 MHz | 50 | 0.5 |

Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general field strength limits listed in RSS-Gen, whichever is less stringent.

The sample tested was found to Comply.

6.4 Setup Photographs:

Setup photographs can be found in Test Setup Photos exhibit.

6.5 Plots/Data:

| | |
|--|--|
| Client: DJO Model Number: Compex Wireless Controller Project Number: G102011503 Tested By: MTS Date: 03/31/2015 Frequency Range (MHz): Fundamental Input power: Battery | Receiver: R&S ESU40 Antenna: EMCO 3115 Cables: MP1+MP3+MP-HF-2 Preamp: Limit: FCC15 Class B-3m Test Distance (m): 3 Modifications for compliance (y/n): n |
|--|--|

Notes:

| A | B | C | D | E | F | G | H | I | J | K |
|-----------------------------|------------------|-------------------|-------------------|------------|--------------|--------------|-----------------|-------------------|--------------|------------------------|
| Ant. | | | Antenna | Cable | Pre-amp | Duty Cycle | | 3m | | Detector/ Bandwidth |
| Pol. (V/H) | Frequency MHz | Reading dB(uV) | Factor dB(1/m) | Loss dB | Factor dB | Factor dB | Net dB(uV/m) | Limit dB(uV/m) | Margin dB | |
| X-axis, low channel | | | | | | | | | | |
| H | 2403.000 | 47.7 | 28.3 | 4.1 | 0.0 | 0.0 | 80.1 | 114.0 | -33.9 | PK/1MHz |
| H | 2403.000 | 47.7 | 28.3 | 4.1 | 0.0 | 16.5 | 63.6 | 94.0 | -30.4 | AVG/1MHz |
| V | 2403.000 | 38.1 | 28.3 | 4.1 | 0.0 | 0.0 | 70.5 | 114.0 | -43.5 | PK/1MHz |
| V | 2403.000 | 38.1 | 28.3 | 4.1 | 0.0 | 16.5 | 54.0 | 94.0 | -40.0 | AVG/1MHz |
| X-axis, mid channel | | | | | | | | | | |
| H | 2440.000 | 44.7 | 28.3 | 4.2 | 0.0 | 0.0 | 77.2 | 114.0 | -36.8 | PK/1MHz |
| H | 2440.000 | 44.7 | 28.3 | 4.2 | 0.0 | 16.5 | 60.7 | 94.0 | -33.3 | AVG/1MHz |
| V | 2440.000 | 39.5 | 28.3 | 4.2 | 0.0 | 0.0 | 72.0 | 114.0 | -42.0 | PK/1MHz |
| V | 2440.000 | 39.5 | 28.3 | 4.2 | 0.0 | 16.5 | 55.5 | 94.0 | -38.5 | AVG/1MHz |
| X-axis, high channel | | | | | | | | | | |
| H | 2475.000 | 43.2 | 28.3 | 4.2 | 0.0 | 0.0 | 75.7 | 114.0 | -38.3 | PK/1MHz |
| H | 2475.000 | 43.2 | 28.3 | 4.2 | 0.0 | 16.5 | 59.2 | 94.0 | -34.8 | AVG/1MHz |
| V | 2475.000 | 32.8 | 28.3 | 4.2 | 0.0 | 0.0 | 65.2 | 114.0 | -48.8 | PK/1MHz |
| V | 2475.000 | 32.8 | 28.3 | 4.2 | 0.0 | 16.5 | 48.7 | 94.0 | -45.3 | AVG/1MHz |
| Y-axis, low channel | | | | | | | | | | |
| H | 2403.000 | 40.2 | 28.3 | 4.1 | 0.0 | 0.0 | 72.6 | 114.0 | -41.4 | PK/1MHz |
| H | 2403.000 | 40.2 | 28.3 | 4.1 | 0.0 | 16.5 | 56.1 | 94.0 | -37.9 | AVG/1MHz |
| V | 2403.000 | 43.4 | 28.3 | 4.1 | 0.0 | 0.0 | 75.8 | 114.0 | -38.2 | PK/1MHz |
| V | 2403.000 | 43.4 | 28.3 | 4.1 | 0.0 | 16.5 | 59.3 | 94.0 | -34.7 | AVG/1MHz |
| Y-axis, mid channel | | | | | | | | | | |
| H | 2440.000 | 42.9 | 28.3 | 4.2 | 0.0 | 0.0 | 75.4 | 114.0 | -38.6 | PK/1MHz |
| H | 2440.000 | 42.9 | 28.3 | 4.2 | 0.0 | 16.5 | 58.9 | 94.0 | -35.1 | AVG/1MHz |
| V | 2440.000 | 40.6 | 28.3 | 4.2 | 0.0 | 0.0 | 73.1 | 114.0 | -40.9 | PK/1MHz |
| V | 2440.000 | 40.6 | 28.3 | 4.2 | 0.0 | 16.5 | 56.6 | 94.0 | -37.4 | AVG/1MHz |
| Y-axis, high channel | | | | | | | | | | |
| H | 2475.000 | 38.9 | 28.3 | 4.2 | 0.0 | 0.0 | 71.4 | 114.0 | -42.6 | PK/1MHz |
| H | 2475.000 | 38.9 | 28.3 | 4.2 | 0.0 | 16.5 | 54.9 | 94.0 | -39.1 | AVG/1MHz |
| V | 2475.000 | 38.4 | 28.3 | 4.2 | 0.0 | 0.0 | 70.8 | 114.0 | -43.2 | PK/1MHz |
| V | 2475.000 | 38.4 | 28.3 | 4.2 | 0.0 | 16.5 | 54.3 | 94.0 | -39.7 | AVG/1MHz |
| Z-axis, low channel | | | | | | | | | | |
| H | 2403.000 | 42.5 | 28.3 | 4.1 | 0.0 | 0.0 | 74.9 | 114.0 | -39.1 | PK/1MHz |
| H | 2403.000 | 42.5 | 28.3 | 4.1 | 0.0 | 16.5 | 58.4 | 94.0 | -35.6 | AVG/1MHz |
| V | 2403.000 | 41.6 | 28.3 | 4.1 | 0.0 | 0.0 | 74.0 | 114.0 | -40.0 | PK/1MHz |
| V | 2403.000 | 41.6 | 28.3 | 4.1 | 0.0 | 16.5 | 57.5 | 94.0 | -36.5 | AVG/1MHz |
| Z-axis, mid channel | | | | | | | | | | |
| H | 2440.000 | 38.4 | 28.3 | 4.2 | 0.0 | 0.0 | 70.9 | 114.0 | -43.1 | PK/1MHz |
| H | 2440.000 | 38.4 | 28.3 | 4.2 | 0.0 | 16.5 | 54.4 | 94.0 | -39.6 | AVG/1MHz |
| V | 2440.000 | 41.4 | 28.3 | 4.2 | 0.0 | 0.0 | 73.9 | 114.0 | -40.1 | PK/1MHz |
| V | 2440.000 | 41.4 | 28.3 | 4.2 | 0.0 | 16.5 | 57.4 | 94.0 | -36.6 | AVG/1MHz |
| Z-axis, high channel | | | | | | | | | | |
| H | 2475.000 | 37.4 | 28.3 | 4.2 | 0.0 | 0.0 | 69.9 | 114.0 | -44.1 | PK/1MHz |
| H | 2475.000 | 37.4 | 28.3 | 4.2 | 0.0 | 16.5 | 53.4 | 94.0 | -40.6 | AVG/1MHz |
| V | 2475.000 | 39.2 | 28.3 | 4.2 | 0.0 | 0.0 | 71.6 | 114.0 | -42.4 | PK/1MHz |
| V | 2475.000 | 39.2 | 28.3 | 4.2 | 0.0 | 16.5 | 55.1 | 94.0 | -38.9 | AVG/1MHz |
| Calculations | | G=C+D+E-F | | | I=G-H | | | | | |

EUT was placed in the X, Y and Z orthogonal axes.

Note: PK indicates peak detection. AVG indicates the peak reading corrected by the duty cycle.

Test Personnel: Mary Sampson MTS
Supervising/Reviewing
Engineer:
(Where Applicable) _____
47CFR Part 15 Subpart C:
2015 Section 15.249, RSS-
210 Issue 8: 2010 Annex
Product Standard: A2.9
Input Voltage: Battery
Pretest Verification w/
Ambient Signals or
BB Source: BB Source

Test Date: 03/31/2015
Limit Applied: See section 6.3
Ambient Temperature: 24 °C
Relative Humidity: 34.4 %
Atmospheric Pressure: 981.7 mbars

Deviations, Additions, or Exclusions: None

7 Transmitter Spurious Radiated Emissions

7.1 Method

Tests are performed in accordance with 47CFR Part 15 Subpart C: 2015 Section 15.249, 15.209, and 15.205, RSS-210 Issue 8 Annex A2.9, and ANSI C63.10:2013.

TEST SITE: 10m Semi-Anechoic Chamber

10 Meter Semi-Anechoic Chamber The test site for radiated emissions is located at 1950 Evergreen Blvd, Suite 100, Duluth, Georgia 30096. It is a 10 meter semi-anechoic chamber manufactured by Panashield. Embedded in the floor is a 3 meter diameter turntable.

Measurement Uncertainty

For radiated emissions, U_{lab} (3.9 dB at 3m and 3.6 dB at 10m below 1 GHz, and 4.2 dB at 3m above 1 GHz) $< U_{CISPR}$ (5.2 dB), which is the reference value in CISPR 16-4-2 Table 1, hence the compliance of the product is only based on the measured value, and no measurement uncertainty correction is required, based on CISPR 22 and CISPR 11 (for 2006 and later revisions) Clause 11.

Sample Calculations

The field strength is calculated by adding the Antenna Factor and Cable Factor, and subtracting the Amplifier Gain (if any) from the measured reading. The basic equation with a sample calculation is as follows:

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

Where

- FS = Field Strength in dB μ V/m
- RA = Receiver Amplitude (including preamplifier) in dB μ V
- CF = Cable Attenuation Factor in dB
- AF = Antenna Factor in dB
- AG = Amplifier Gain in dB

In the following table(s), the reading shown on the data table reflects the preamplifier gain. An example for the calculations in the following table is as follows.

Assume a receiver reading of 52.0 dB μ V is obtained. The antenna factor of 7.4 dB and cable factor of 1.6 dB is added. The amplifier gain of 29 dB is subtracted, giving a field strength of 32 dB μ V/m. This value in dB μ V/m was converted to its corresponding level in μ V/m.

RA = 52.0 dB μ V
 AF = 7.4 dB/m
 CF = 1.6 dB
 AG = 29.0 dB
 FS = 32 dB μ V/m

To convert from dB μ V to μ V or mV the following was used:

$$UF = 10^{(NF / 20)} \text{ where } UF = \text{Net Reading in } \mu\text{V}$$

NF = Net Reading in dB μ V

Example:

$$FS = RA + AF + CF - AG = 52.0 + 7.4 + 1.6 - 29.0 = 32.0$$

$$UF = 10^{(32 \text{ dB}\mu\text{V} / 20)} = 39.8 \mu\text{V/m}$$

7.2 Test Equipment Used:

| Asset | Description | Manufacturer | Model | Serial | Cal Date | Cal Due |
|----------|---------------------------------------|--------------------|--------------------|--------------|------------|------------|
| 213061; | Antenna, Horn, <18 GHz | EMCO | 3115 | 9208-3919 | 07/22/2014 | 07/22/2015 |
| MP3; | Cable MP3, 18 GHz, N, 10m | Megaphase | G919-NKNK-394 | MP3 | 05/08/2014 | 05/08/2015 |
| MP-HF-;2 | Cable, 3-meters, 1-18GHz | Megaphase | EM18-N1N1-119 | 12090601002 | 08/26/2014 | 08/26/2015 |
| ST-5; | 7m Cable, 0.01-18GHz | Storm Products Co. | A81-0303-275.6 | 121-07-002 | 08/14/2014 | 08/14/2015 |
| 200108; | Preamplifier, 20 MHz to 18 GHz, 40 dB | A.H. Systems | PAM-0118 | 199 | 12/03/2014 | 12/03/2015 |
| 200162; | EMI Receiver (20Hz-40GHz) | Rohde & Schwarz | ESU 40 | 100314 | 03/02/2015 | 03/02/2016 |
| 213023; | Antenna, Horn, 18-40 GHz | EMCO | 3116 | 9310-2222 | 10/09/2014 | 10/09/2015 |
| 200080; | Preamplifier, 18-40GHz, 29 dB Gain | Miteq | JS41800400-30-5P-S | 818197 | 08/27/2014 | 08/27/2015 |
| E404; | Cable E404, 40 GHz, 2.9, 2m | Megaphase | TM40 K1K1 80 | E404 | 08/27/2014 | 08/27/2015 |
| 211386; | Antenna, BiLog, 20-2000MHz | | | | | |
| 200082; | Preamplifier, 20MHz to 2GHz, 30 dB | A.H. Systems | PAM-0202 | 203 | 10/02/2014 | 10/02/2015 |
| E210; | RF Coax Cable | Megaphase | TM18-N1N1-120 | 14065201-003 | 05/08/2014 | 05/08/2015 |
| E209; | RF Coax Cable | Megaphase | TM18-N1N1-120 | 14065201-003 | 05/08/2014 | 05/08/2015 |
| TT6; | RF Coax Cable. Rated 9KHz to 2 GHz. | Andrews | Cable TT-6 | TT6 | 06/18/2014 | 06/18/2015 |
| TW2 | | | | | | |
| 211411; | Cable TW2 | Andrews | Cable TW2 | TW2 | 05/08/2014 | 05/08/2015 |
| 015762; | EMI Receiver, Preselector section | Hewlett Packard | 85460A | 3330A00158 | 04/09/2014 | 04/09/2015 |
| 211505; | EMI Receiver | Hewlett Packard | 8546A | 3650A00362 | 04/09/2014 | 04/09/2015 |

Software Utilized:

| Name | Manufacturer | Version |
|---------------------------------------|----------------|----------|
| None (Spectrum Analyzer Firmware)Tile | Quantum Change | 3.4.K.22 |

7.3 Results:**FCC 15.249**

| Fundamental Frequency (MHz) | Field strength of fundamental (millivolts/meter) | Field strength of harmonics (microvolts/meter) |
|-----------------------------|--|--|
| 902-928 MHz | 50 | 500 |
| 2400-2483.5 MHz | 50 | 500 |
| 5725-5875 MHz | 50 | 500 |
| 24.0-24.25 GHz | 250 | 2500 |

Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in §15.209, whichever is the lesser attenuation.

FCC 15.209

| Fundamental Frequency (MHz) | Field strength (microvolts/meter) | Measurement distance (meters) |
|--|-----------------------------------|-------------------------------|
| 0.009-0.490 | 2400/F(kHz) | 300 |
| 0.490-1.705 | 24000/F(kHz) | 30 |
| 1.705-30.0 | 30 | 30 |
| 30-88 | 100** | 3 |
| 88-216 | 150** | 3 |
| 216-960 | 200** | 3 |
| Above 960 | 500 | 3 |
| **Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this part, e.g., §§ 15.231 and 15.241. | | |

IC RSS-210 Section A2.9

| Fundamental Frequency (MHz) | Field strength (millivolts/meter) | |
|--------------------------------|--------------------------------------|-----------|
| | Fundamental | Harmonics |
| 902-928 MHz | 50 | 0.5 |
| 2400-2483.5 MHz | 50 | 0.5 |
| 5725-5875 MHz | 50 | 0.5 |

Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general field strength limits listed in RSS-Gen, whichever is less stringent.

IC RSS-Gen Section 8.3

| Fundamental Frequency (MHz) | Field strength (μ V/m at 3 metres) |
|-----------------------------------|--|
| 30–88 | 100 |
| 88–216 | 150 |
| 216–960 | 200 |
| Above 960 | 500* |

(*)Unless otherwise specified, for all frequencies greater than 1 GHz, the radiated emission limits for licence-exempt radio apparatus stated in applicable RSSs (including RSS-Gen) are based on measurements using a linear average detector function having a minimum resolution bandwidth of 1 MHz. If an average limit is specified for the EUT, then the peak emission shall also be measured with instrumentation properly adjusted for such factors as pulse desensitization to ensure the peak emission is less than 20 dB above the average limit.

Testing was performed with EUT in X, Y, and Z axis from 30 MHz to 25 GHz. Hand scan was performed from 18 to 25 GHz, no significant emissions were detected.

The sample tested was found to Comply.

7.4 Setup Photographs:

Setup photographs can be found in Test Setup Photos exhibit.

7.5 Plots/Data:**Client:** DJO Global**Receiver:** HP 8546A**Model Number:** Remote Controller REF 6522040**Antenna:** Chase 2622**Project Number:** Q500558693**Cables:** E-205+E-209+TT-6+TW2**Tested By:** LEM**Preamplifier:** ZKL-2 200069**Date:** 11/6/14**Frequency Range (MHz):** 30-1000**Test Distance (m):****Input power:** Battery**Limit:** CISPR Class A-10m**Modifications for compliance (y/n):** n

| A | B | C | D | E | F | G | H | I | J |
|---------------------|---------------|----------------|------------------------|---------------|-------------------|--------------|--------------------|-----------|------------------------------------|
| Ant. Pol. (V/H) | Frequency MHz | Reading dB(uV) | Antenna Factor dB(1/m) | Cable Loss dB | Pre-amp Factor dB | Net dB(uV/m) | 10m Limit dB(uV/m) | Margin dB | Detectors / Bandwidths Det/RBW/VBW |
| H | 32.480 | 34.6 | 16.5 | 0.9 | 31.6 | 20.3 | 40.0 | -19.7 | 120KHz |
| H | 36.232 | 34.3 | 13.6 | 0.9 | 31.6 | 17.3 | 40.0 | -22.7 | 120KHz |
| H | 39.944 | 34.0 | 12.0 | 1.0 | 31.6 | 15.4 | 40.0 | -24.6 | 120KHz |
| H | 112.072 | 31.2 | 11.4 | 2.0 | 31.4 | 13.2 | 40.0 | -26.8 | 120KHz |
| V | 36.217 | 34.3 | 15.4 | 0.9 | 31.6 | 19.0 | 40.0 | -21.0 | 120KHz |
| V | 40.000 | 34.2 | 13.6 | 1.0 | 31.6 | 17.2 | 40.0 | -22.8 | 120KHz |
| Calculations | | G=C+D+E-F | | I=G-H | | | | | |

Client: DJO
 Model Number: Compex Wireless Controller
 Project Number: G102011503
 Tested By: MTS
 Date: 04/07/2015
 Frequency Range (MHz): 1000-18000
 Input power: Battery

Receiver: R&S ESU40
 Antenna: EMCO 3115
 Cables: ST-5+MP3+MP-HF-2
 Preamp: PAM-0118
 Limit: FCC15 Class B-3m

Test Distance (m): 3

Modifications for compliance (y/n): n

Notes: Continuous transmission, low channel

| A | B | C | D | E | F | G | H | I | J | K |
|---------------------|------------------|-------------------|-------------------|------------|--------------|--------------|-----------------|-------------------|--------------|------------------------|
| Ant. | | | Antenna | Cable | Pre-amp | Duty Cycle | | 3m | | |
| Pol. (V/H) | Frequency MHz | Reading dB(uV) | Factor dB(1/m) | Loss dB | Factor dB | Factor dB | Net dB(uV/m) | Limit dB(uV/m) | Margin dB | Detector/ Bandwidth |
| X-Axis | | | | | | | | | | |
| V | 4806.000 | 45.2 | 32.8 | 3.5 | 39.5 | 0.0 | 42.0 | 74.0 | -32.0 | PK/1MHz |
| V | 4806.000 | 45.2 | 32.8 | 3.5 | 39.5 | 16.5 | 25.5 | 54.0 | -28.5 | AVG/1MHz |
| H | 4806.000 | 47.1 | 32.8 | 3.5 | 39.5 | 0.0 | 43.9 | 74.0 | -30.1 | PK/1MHz |
| H | 4806.000 | 47.1 | 32.8 | 3.5 | 39.5 | 16.5 | 27.4 | 54.0 | -26.6 | AVG/1MHz |
| V | 7209.000 | 44.5 | 35.8 | 4.7 | 38.9 | 0.0 | 46.0 | 74.0 | -28.0 | PK/1MHz |
| V | 7209.000 | 44.5 | 35.8 | 4.7 | 38.9 | 16.5 | 29.5 | 54.0 | -24.5 | AVG/1MHz |
| H | 7209.000 | 44.6 | 35.8 | 4.7 | 38.9 | 0.0 | 46.1 | 74.0 | -27.9 | PK/1MHz |
| H | 7209.000 | 44.6 | 35.8 | 4.7 | 38.9 | 16.5 | 29.6 | 54.0 | -24.4 | AVG/1MHz |
| V | 9612.000 | 43.0 | 37.6 | 5.4 | 37.1 | 0.0 | 49.0 | 74.0 | -25.0 | PK/1MHz |
| V | 9612.000 | 43.0 | 37.6 | 5.4 | 37.1 | 16.5 | 32.5 | 54.0 | -21.5 | AVG/1MHz |
| H | 9612.000 | 42.8 | 37.6 | 5.4 | 37.1 | 16.5 | 32.2 | 74.0 | -41.8 | PK/1MHz |
| H | 9612.000 | 42.8 | 37.6 | 5.4 | 37.1 | 16.5 | 32.2 | 54.0 | -21.8 | AVG/1MHz |
| Y-Axis | | | | | | | | | | |
| V | 4806.000 | 46.3 | 32.8 | 3.5 | 39.5 | 0.0 | 43.1 | 74.0 | -30.9 | PK/1MHz |
| V | 4806.000 | 46.3 | 32.8 | 3.5 | 39.5 | 16.5 | 26.6 | 54.0 | -27.4 | AVG/1MHz |
| H | 4806.000 | 46.5 | 32.8 | 3.5 | 39.5 | 0.0 | 43.3 | 74.0 | -30.7 | PK/1MHz |
| H | 4806.000 | 46.5 | 32.8 | 3.5 | 39.5 | 16.5 | 26.8 | 54.0 | -27.2 | AVG/1MHz |
| V | 7209.000 | 44.6 | 35.8 | 4.7 | 38.9 | 0.0 | 46.1 | 74.0 | -27.9 | PK/1MHz |
| V | 7209.000 | 44.6 | 35.8 | 4.7 | 38.9 | 16.5 | 29.6 | 54.0 | -24.4 | AVG/1MHz |
| H | 7209.000 | 44.9 | 35.8 | 4.7 | 38.9 | 0.0 | 46.4 | 74.0 | -27.6 | PK/1MHz |
| H | 7209.000 | 44.9 | 35.8 | 4.7 | 38.9 | 16.5 | 29.9 | 54.0 | -24.1 | AVG/1MHz |
| V | 9612.000 | 42.8 | 37.6 | 5.4 | 37.1 | 0.0 | 48.8 | 74.0 | -25.2 | PK/1MHz |
| V | 9612.000 | 42.8 | 37.6 | 5.4 | 37.1 | 16.5 | 32.3 | 54.0 | -21.7 | AVG/1MHz |
| H | 9612.000 | 42.6 | 37.6 | 5.4 | 37.1 | 0.0 | 48.5 | 74.0 | -25.5 | PK/1MHz |
| H | 9612.000 | 42.6 | 37.6 | 5.4 | 37.1 | 16.5 | 32.0 | 54.0 | -22.0 | AVG/1MHz |
| Z-Axis | | | | | | | | | | |
| V | 4806.000 | 45.5 | 32.8 | 3.5 | 39.5 | 0.0 | 42.3 | 74.0 | -31.7 | PK/1MHz |
| V | 4806.000 | 45.5 | 32.8 | 3.5 | 39.5 | 16.5 | 25.8 | 54.0 | -28.2 | AVG/1MHz |
| H | 4806.000 | 45.4 | 32.8 | 3.5 | 39.5 | 0.0 | 42.2 | 74.0 | -31.8 | PK/1MHz |
| H | 4806.000 | 45.4 | 32.8 | 3.5 | 39.5 | 16.5 | 25.7 | 54.0 | -28.3 | AVG/1MHz |
| V | 7209.000 | 44.8 | 35.8 | 4.7 | 38.9 | 0.0 | 46.4 | 74.0 | -27.6 | PK/1MHz |
| V | 7209.000 | 44.8 | 35.8 | 4.7 | 38.9 | 16.5 | 29.9 | 54.0 | -24.1 | AVG/1MHz |
| H | 7209.000 | 45.1 | 35.8 | 4.7 | 38.9 | 0.0 | 46.7 | 74.0 | -27.3 | PK/1MHz |
| H | 7209.000 | 45.1 | 35.8 | 4.7 | 38.9 | 16.5 | 30.2 | 54.0 | -23.8 | AVG/1MHz |
| V | 9612.000 | 43.6 | 37.6 | 5.4 | 37.1 | 0.0 | 49.6 | 74.0 | -24.4 | PK/1MHz |
| V | 9612.000 | 43.6 | 37.6 | 5.4 | 37.1 | 16.5 | 33.1 | 54.0 | -20.9 | AVG/1MHz |
| H | 9612.000 | 43.3 | 37.6 | 5.4 | 37.1 | 0.0 | 49.2 | 74.0 | -24.8 | PK/1MHz |
| H | 9612.000 | 43.3 | 37.6 | 5.4 | 37.1 | 16.5 | 32.7 | 54.0 | -21.3 | AVG/1MHz |
| Calculations | | G=C+D+E-F | | | I=G-H | | | | | |

Note: PK indicates peak detection. AVG indicates the peak reading corrected by the duty cycle.

Client: DJO
Model Number: Compex Wireless Controller
Project Number: G102011503

Receiver: R&S ESU40
Antenna: EMCO 3115
Cables: ST-5+MP3+MP-HF-2
Preamp: PAM-0118
Limit: FCC15 Class B-3m

Tested By: MTS
Date: 04/07/2015
Frequency Range (MHz): 1000-18000

Test Distance (m): 3

Input power: Battery

Modifications for compliance (y/n): n

Notes: Continuous transmission, mid channel

| A | B | C | D | E | F | G | H | I | J | K |
|---------------------|-----------|-----------|---------|-------|---------|------------|----------|----------|--------|-----------|
| Ant. | Frequency | Reading | Antenna | Cable | Pre-amp | Duty Cycle | | 3m | | Detector/ |
| Pol. | Frequency | Reading | Factor | Loss | Factor | Factor | Net | Limit | Margin | Bandwidth |
| (V/H) | MHz | dB(uV) | dB(1/m) | dB | dB | dB | dB(uV/m) | dB(uV/m) | dB | |
| X-Axis | | | | | | | | | | |
| V | 4880.000 | 44.9 | 32.8 | 3.5 | 39.5 | 0.0 | 41.6 | 74.0 | -32.4 | PK/1MHz |
| V | 4880.000 | 44.9 | 32.8 | 3.5 | 39.5 | 16.5 | 25.1 | 54.0 | -28.9 | AVG/1MHz |
| H | 4880.000 | 44.7 | 32.8 | 3.5 | 39.5 | 0.0 | 41.4 | 74.0 | -32.6 | PK/1MHz |
| H | 4880.000 | 44.7 | 32.8 | 3.5 | 39.5 | 16.5 | 24.9 | 54.0 | -29.1 | AVG/1MHz |
| V | 7320.000 | 44.0 | 36.2 | 4.7 | 38.9 | 0.0 | 45.9 | 74.0 | -28.1 | PK/1MHz |
| V | 7320.000 | 44.0 | 36.2 | 4.7 | 38.9 | 16.5 | 29.4 | 54.0 | -24.6 | AVG/1MHz |
| H | 7320.000 | 44.0 | 36.3 | 4.7 | 38.9 | 0.0 | 46.0 | 74.0 | -28.0 | PK/1MHz |
| H | 7320.000 | 44.0 | 36.3 | 4.7 | 38.9 | 16.5 | 29.5 | 54.0 | -24.5 | AVG/1MHz |
| V | 9760.000 | 39.7 | 37.6 | 5.4 | 37.1 | 0.0 | 45.6 | 74.0 | -28.4 | PK/1MHz |
| V | 9760.000 | 39.7 | 37.6 | 5.4 | 37.1 | 16.5 | 29.1 | 54.0 | -24.9 | AVG/1MHz |
| H | 9760.000 | 40.0 | 37.6 | 5.4 | 37.1 | 16.5 | 29.4 | 74.0 | -44.6 | PK/1MHz |
| H | 9760.000 | 40.0 | 37.6 | 5.4 | 37.1 | 16.5 | 29.4 | 54.0 | -24.6 | AVG/1MHz |
| Y-Axis | | | | | | | | | | |
| V | 4880.000 | 45.1 | 32.8 | 3.5 | 39.5 | 0.0 | 41.9 | 74.0 | -32.1 | PK/1MHz |
| V | 4880.000 | 45.1 | 32.8 | 3.5 | 39.5 | 16.5 | 25.4 | 54.0 | -28.6 | AVG/1MHz |
| H | 4880.000 | 45.1 | 32.8 | 3.5 | 39.5 | 0.0 | 41.8 | 74.0 | -32.2 | PK/1MHz |
| H | 4880.000 | 45.1 | 32.8 | 3.5 | 39.5 | 16.5 | 25.3 | 54.0 | -28.7 | AVG/1MHz |
| V | 7320.000 | 44.1 | 36.2 | 4.7 | 38.9 | 0.0 | 46.0 | 74.0 | -28.0 | PK/1MHz |
| V | 7320.000 | 44.1 | 36.2 | 4.7 | 38.9 | 16.5 | 29.5 | 54.0 | -24.5 | AVG/1MHz |
| H | 7320.000 | 44.7 | 36.3 | 4.7 | 38.9 | 0.0 | 46.7 | 74.0 | -27.3 | PK/1MHz |
| H | 7320.000 | 44.7 | 36.3 | 4.7 | 38.9 | 16.5 | 30.2 | 54.0 | -23.8 | AVG/1MHz |
| V | 9760.000 | 40.4 | 37.6 | 5.4 | 37.1 | 0.0 | 46.3 | 74.0 | -27.8 | PK/1MHz |
| V | 9760.000 | 40.4 | 37.6 | 5.4 | 37.1 | 16.5 | 29.8 | 54.0 | -24.3 | AVG/1MHz |
| H | 9760.000 | 40.4 | 37.6 | 5.4 | 37.1 | 0.0 | 46.3 | 74.0 | -27.8 | PK/1MHz |
| H | 9760.000 | 40.4 | 37.6 | 5.4 | 37.1 | 16.5 | 29.8 | 54.0 | -24.2 | AVG/1MHz |
| Z-Axis | | | | | | | | | | |
| V | 4880.000 | 45.8 | 32.8 | 3.5 | 39.5 | 0.0 | 42.5 | 74.0 | -31.5 | PK/1MHz |
| V | 4880.000 | 45.8 | 32.8 | 3.5 | 39.5 | 16.5 | 26.0 | 54.0 | -28.0 | AVG/1MHz |
| H | 4880.000 | 45.3 | 32.8 | 3.5 | 39.5 | 0.0 | 42.1 | 74.0 | -31.9 | PK/1MHz |
| H | 4880.000 | 45.3 | 32.8 | 3.5 | 39.5 | 16.5 | 25.6 | 54.0 | -28.4 | AVG/1MHz |
| V | 7320.000 | 44.6 | 36.2 | 4.7 | 38.9 | 0.0 | 46.6 | 74.0 | -27.4 | PK/1MHz |
| V | 7320.000 | 44.6 | 36.2 | 4.7 | 38.9 | 16.5 | 30.1 | 54.0 | -23.9 | AVG/1MHz |
| H | 7320.000 | 44.5 | 36.3 | 4.7 | 38.9 | 0.0 | 46.5 | 74.0 | -27.5 | PK/1MHz |
| H | 7320.000 | 44.5 | 36.3 | 4.7 | 38.9 | 16.5 | 30.0 | 54.0 | -24.0 | AVG/1MHz |
| V | 9760.000 | 40.2 | 37.6 | 5.4 | 37.1 | 0.0 | 46.1 | 74.0 | -27.9 | PK/1MHz |
| V | 9760.000 | 40.2 | 37.6 | 5.4 | 37.1 | 16.5 | 29.6 | 54.0 | -24.4 | AVG/1MHz |
| H | 9760.000 | 39.9 | 37.6 | 5.4 | 37.1 | 0.0 | 45.7 | 74.0 | -28.3 | PK/1MHz |
| H | 9760.000 | 39.9 | 37.6 | 5.4 | 37.1 | 16.5 | 29.2 | 54.0 | -24.8 | AVG/1MHz |
| Calculations | | G=C+D+E-F | | | I=G-H | | | | | |

Note: PK indicates peak detection. AVG indicates the peak reading corrected by the duty cycle.

Client: DJO
Model Number: Comex Wireless Controller
Project Number: G102011503
Tested By: MTS
Date: 04/07/2015
Frequency Range (MHz): 1000-18000
Input power: Battery
Receiver: R&S ESU40
Antenna: EMCO 3115
Cables: ST-5+MP3+MP-HF-2
Preamplifier: PAM-0118
Limit: FCC15 Class B-3m
Test Distance (m): 3
Modifications for compliance (y/n): n

Notes: Continuous transmission, high channel

| A | B | C | D | E | F | G | H | I | J | K |
|---------------------|------------------|-------------------|-------------------|-------------|--------------|--------------|-----------------|-------------------|--------------|------------------------|
| Ant. | | | Antenna | Cable | Pre-amp | Duty Cycle | | 3m | | |
| Pol. (V/H) | Frequency MHz | Reading dB(uV) | Factor dB(1/m) | Loss dB | Factor dB | Factor dB | Net dB(uV/m) | Limit dB(uV/m) | Margin dB | Detector/ Bandwidth |
| X-Axis | | | | | | | | | | |
| V | 4950.000 | 44.8 | 33.0 | 3.5 | 39.6 | 0.0 | 41.7 | 74.0 | -32.3 | PK/1MHz |
| V | 4950.000 | 44.8 | 33.0 | 3.5 | 39.6 | 16.5 | 25.2 | 54.0 | -28.8 | AVG/1MHz |
| H | 4950.000 | 45.3 | 33.0 | 3.5 | 39.6 | 0.0 | 42.1 | 74.0 | -31.9 | PK/1MHz |
| H | 4950.000 | 45.3 | 33.0 | 3.5 | 39.6 | 16.5 | 25.7 | 54.0 | -28.3 | AVG/1MHz |
| V | 7425.000 | 45.0 | 36.5 | 4.7 | 38.8 | 0.0 | 47.4 | 74.0 | -26.6 | PK/1MHz |
| V | 7425.000 | 45.0 | 36.5 | 4.7 | 38.8 | 16.5 | 30.9 | 54.0 | -23.1 | AVG/1MHz |
| H | 7425.000 | 44.9 | 36.5 | 4.7 | 38.8 | 0.0 | 47.3 | 74.0 | -26.7 | PK/1MHz |
| H | 7425.000 | 44.9 | 36.5 | 4.7 | 38.8 | 16.5 | 30.8 | 54.0 | -23.2 | AVG/1MHz |
| V | 9900.000 | 41.1 | 38.0 | 5.4 | 37.0 | 0.0 | 47.6 | 74.0 | -26.4 | PK/1MHz |
| V | 9900.000 | 41.1 | 38.0 | 5.4 | 37.0 | 16.5 | 31.1 | 54.0 | -22.9 | AVG/1MHz |
| H | 9900.000 | 41.2 | 38.0 | 5.4 | 37.0 | 0.0 | 47.6 | 74.0 | -26.4 | PK/1MHz |
| H | 9900.000 | 41.2 | 38.0 | 5.4 | 37.0 | 16.5 | 31.1 | 54.0 | -22.9 | AVG/1MHz |
| Y-Axis | | | | | | | | | | |
| V | 4950.000 | 44.3 | 33.0 | 3.5 | 39.6 | 0.0 | 41.2 | 74.0 | -32.8 | PK/1MHz |
| V | 4950.000 | 44.3 | 33.0 | 3.5 | 39.6 | 16.5 | 24.7 | 54.0 | -29.3 | AVG/1MHz |
| H | 4950.000 | 44.1 | 33.0 | 3.5 | 39.6 | 0.0 | 40.9 | 74.0 | -33.1 | PK/1MHz |
| H | 4950.000 | 44.1 | 33.0 | 3.5 | 39.6 | 16.5 | 24.4 | 54.0 | -29.6 | AVG/1MHz |
| V | 7425.000 | 45.4 | 36.5 | 4.7 | 38.8 | 0.0 | 47.8 | 74.0 | -26.2 | PK/1MHz |
| V | 7425.000 | 45.4 | 36.5 | 4.7 | 38.8 | 16.5 | 31.3 | 54.0 | -22.7 | AVG/1MHz |
| H | 7425.000 | 44.9 | 36.5 | 4.7 | 38.8 | 0.0 | 47.2 | 74.0 | -26.8 | PK/1MHz |
| H | 7425.000 | 44.9 | 36.5 | 4.7 | 38.8 | 16.5 | 30.7 | 54.0 | -23.3 | AVG/1MHz |
| V | 9900.000 | 41.4 | 38.0 | 5.4 | 37.0 | 0.0 | 47.8 | 74.0 | -26.2 | PK/1MHz |
| V | 9900.000 | 41.4 | 38.0 | 5.4 | 37.0 | 16.5 | 31.3 | 54.0 | -22.7 | AVG/1MHz |
| H | 9900.000 | 41.5 | 38.0 | 5.4 | 37.0 | 0.0 | 48.0 | 74.0 | -26.0 | PK/1MHz |
| H | 9900.000 | 41.5 | 38.0 | 5.4 | 37.0 | 16.5 | 31.5 | 54.0 | -22.5 | AVG/1MHz |
| Z-Axis | | | | | | | | | | |
| V | 4950.000 | 45.1 | 33.0 | 3.5 | 39.6 | 0.0 | 42.1 | 74.0 | -31.9 | PK/1MHz |
| V | 4950.000 | 45.1 | 33.0 | 3.5 | 39.6 | 16.5 | 25.6 | 54.0 | -28.4 | AVG/1MHz |
| H | 4950.000 | 44.9 | 33.0 | 3.5 | 39.6 | 0.0 | 41.7 | 74.0 | -32.3 | PK/1MHz |
| H | 4950.000 | 44.9 | 33.0 | 3.5 | 39.6 | 16.5 | 25.2 | 54.0 | -28.8 | AVG/1MHz |
| V | 7425.000 | 45.2 | 36.5 | 4.7 | 38.8 | 0.0 | 47.6 | 74.0 | -26.4 | PK/1MHz |
| V | 7425.000 | 45.2 | 36.5 | 4.7 | 38.8 | 16.5 | 31.1 | 54.0 | -22.9 | AVG/1MHz |
| H | 7425.000 | 45.6 | 36.5 | 4.7 | 38.8 | 0.0 | 48.0 | 74.0 | -26.0 | PK/1MHz |
| H | 7425.000 | 45.6 | 36.5 | 4.7 | 38.8 | 16.5 | 31.5 | 54.0 | -22.5 | AVG/1MHz |
| V | 9900.000 | 41.0 | 38.0 | 5.4 | 37.0 | 0.0 | 47.5 | 74.0 | -26.6 | PK/1MHz |
| V | 9900.000 | 41.0 | 38.0 | 5.4 | 37.0 | 16.5 | 31.0 | 54.0 | -23.1 | AVG/1MHz |
| H | 9900.000 | 41.1 | 38.0 | 5.4 | 37.0 | 0.0 | 47.6 | 74.0 | -26.4 | PK/1MHz |
| H | 9900.000 | 41.1 | 38.0 | 5.4 | 37.0 | 16.5 | 31.1 | 54.0 | -22.9 | AVG/1MHz |
| Calculations | | G=C+D+BF | | I=GH | | | | | | |

Note: PK indicates peak detection. AVG indicates the peak reading corrected by the duty cycle.

Test Personnel: Larry Miller
 Supervising/Reviewing Engineer: Mary Sampson MTS
 (Where Applicable)
 Product Standard: 47CFR Part 15 Subpart C: 2015 Section 15.249, 15.209, and 15.205, RSS-210 Issue 8: 2010 Annex A2.9, and RSS-Gen Issue 4: 2014 Section 8.3
 Input Voltage: 3 Vdc
 Pretest Verification w/ Ambient Signals or BB Source: BB

Test Date: 11/6/2014
04/07/2015

Limit Applied: See section 7.3

Ambient Temperature: Nov: 22 °C
Apr: 23.9 °C
 Relative Humidity: Nov: 40 %
Apr: 40.5 %
 Atmospheric Pressure: Nov: 983 mbars
Feb: 988.5 mbars

Deviations, Additions, or Exclusions: None

8 Duty Cycle

8.1 Method

Tests are performed in accordance with 47CFR Part 15 Subpart A: 2015 Section 15.35(c), RSS-Gen Issue 4:Nov 2014 Section 6.10, and ANSI C63.10:2013.

TEST SITE: EMC Lab

The EMC Lab has one Semi-anechoic Chamber and one Shielded Chamber. AC Mains Power is available at 120, 230, and 277 Single Phase; 208, 400, and 480 3-Phase. Large reference ground-planes are installed in the general lab area to facilitate EMC work not requiring a shielded environment.

8.2 Test Equipment Used:

| Asset | Description | Manufacturer | Model | Serial | Cal Date | Cal Due |
|----------|---------------------------|-------------------|--------|--------|------------|------------|
| T006217; | THDX | Oregon Scientific | BA888 | NSN | 12/11/2013 | 12/11/2014 |
| 200162; | EMI Receiver (20Hz-40GHz) | Rohde & Schwarz | ESU 40 | 100314 | 11/21/2013 | 11/21/2014 |

Software Utilized:

| Name | Manufacturer | Version |
|-----------------------------------|--------------|---------|
| None (Spectrum Analyzer Firmware) | | |

8.3 Results:

47CFR Part 15 Subpart A: 2015 Section 15.35(c)

Unless otherwise specified, e.g., §§15.255(b), and 15.256(l)(5), when the radiated emission limits are expressed in terms of the average value of the emission, and pulsed operation is employed, the measurement field strength shall be determined by averaging over one complete pulse train, including blanking intervals, as long as the pulse train does not exceed 0.1 seconds. As an alternative (provided the transmitter operates for longer than 0.1 seconds) or in cases where the pulse train exceeds 0.1 seconds, the measured field strength shall be determined from the average absolute voltage during a 0.1 second interval during which the field strength is at its maximum value. The exact method of calculating the average field strength shall be submitted with any application for certification or shall be retained in the measurement data file for equipment subject to notification or verification.

IC RSS-210 Section 6.10 Pulsed Operation

When the field strength (or envelope power) is not constant or it is in pulses, and an average detector is specified to be used, the value of field strength or power shall be determined by averaging over one complete pulse train, including blanking intervals within the pulse train, as long as the pulse train does not exceed 0.1 second. In cases where the pulse train exceeds 0.1 second, the average value of field strength or output power shall be determined during a 0.1 second interval during which the field strength or power is at its maximum value.

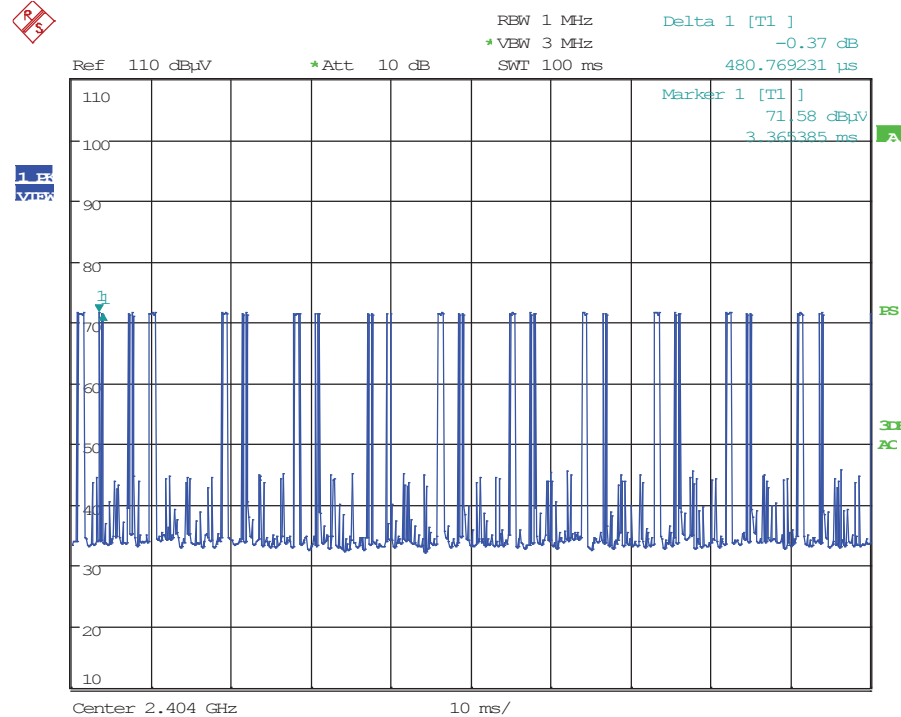
The exact method of calculating the average field strength shall be submitted with the application for certification or shall be retained in the measurement data file for equipment subject to notification or verification.

The sample tested was found to Comply.

8.4 Setup Photographs:

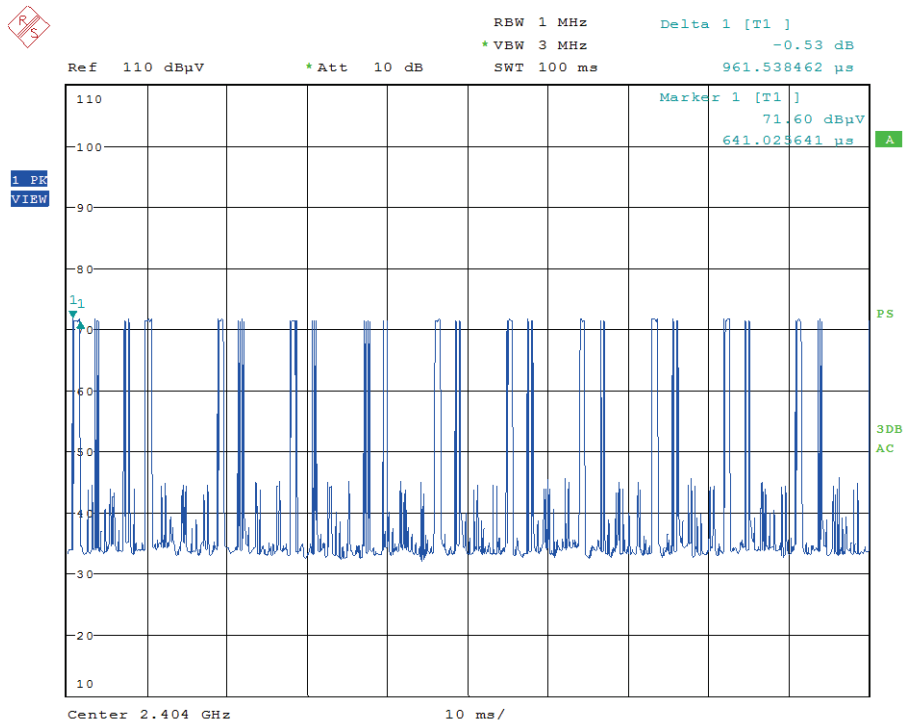
Setup photographs can be found in Test Setup Photos exhibit.

8.5 Plots/Data:



Date: 13.NOV.2014 15:23:31

11 pulses at 480.769231 μs = 5.288461541 ms



Date: 13.NOV.2014 15:24:12

10 pulses at 961.538462 μ s = 9.61538462 ms

Duty cycle correction factor

= 11 pulses at 480.769231 μ s = 5.288461541 ms + 10 pulses at 961.538462 μ s = 9.61538462 ms

= 5.288461541 ms + 9.61538462 ms/100 ms = 0.14903846161 ms

Duty correction factor = 20 log (0.14903846161) = -16.5 dB

| | |
|---|--|
| Test Personnel: <u>Mary Sampson</u> <i>MTS</i> | Test Date: <u>11/13/2014</u> |
| Supervising/Reviewing Engineer: _____ | |
| (Where Applicable) _____ | |
| 47CFR Part 15 Subpart A:2015 Section 15.35(c), RSS-GEN Issue 4:Nov 2014, Section 6.10, and ANSI C63.10:2013 | Limit Applied: <u>See section 8.3</u> |
| Product Standard: <u>C63.10:2013</u> | |
| Input Voltage: <u>Battery</u> | |
| | Ambient Temperature: <u>21.5 °C</u> |
| | Relative Humidity: <u>34 %</u> |
| | Atmospheric Pressure: <u>983 mbars</u> |

Deviations, Additions, or Exclusions: None

9 20 dB Bandwidth

9.1 Method

Tests are performed in accordance with 47CFR Part 15 Subpart C Section 15.215(c), RSS-GEN Issue 4 Nov 2014 Section 6.6, and ANSI C63.10:2013.

TEST SITE: EMC Lab

The EMC Lab has two Semi-anechoic Chambers and one Shielded Chamber. AC Mains Power is available at 120, 230, and 277 Single Phase; 208, 400, and 480 3-Phase. Large reference ground-planes are installed in the general lab area to facilitate EMC work not requiring a shielded environment.

9.2 Test Equipment Used:

| Asset | Description | Manufacturer | Model | Serial | Cal Date | Cal Due |
|----------|---------------------------|-------------------|--------|--------|------------|------------|
| T006217; | THDX | Oregon Scientific | BA888 | NSN | 12/11/2013 | 12/11/2014 |
| 200162; | EMI Receiver (20Hz-40GHz) | Rohde & Schwarz | ESU 40 | 100314 | 11/21/2013 | 11/21/2014 |

Software Utilized:

| Name | Manufacturer | Version |
|-----------------------------------|--------------|---------|
| None (Spectrum Analyzer Firmware) | | |

9.3 Results:

47CFR Part 15 Subpart C Section 15.215(c)

(c) Intentional radiators operating under the alternative provisions to the general emission limits, as contained in §§15.217 through 15.257 and in subpart E of this part, must be designed to ensure that the 20 dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equipment operates, is contained within the frequency band designated in the rule section under which the equipment is operated. In the case of intentional radiators operating under the provisions of subpart E, the emission bandwidth may span across multiple contiguous frequency bands identified in that subpart. The requirement to contain the designated bandwidth of the emission within the specified frequency band includes the effects from frequency sweeping, frequency hopping and other modulation techniques that may be employed as well as the frequency stability of the transmitter over expected variations in temperature and supply voltage. If a frequency stability is not specified in the regulations, it is recommended that the fundamental emission be kept within at least the central 80% of the permitted band in order to minimize the possibility of out-of-band operation.

RSS-GEN Issue 4 Nov 2014, Section 6.6

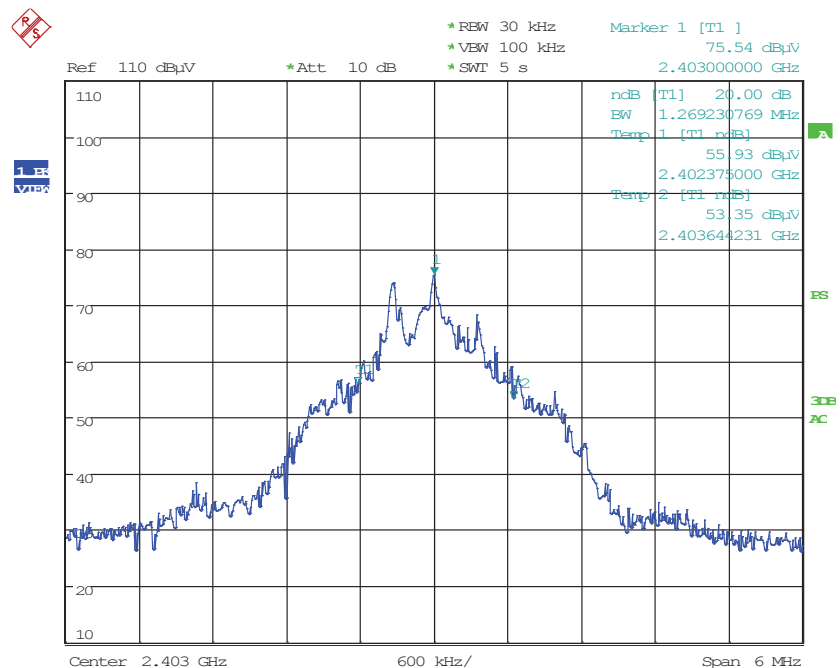
The emission bandwidth (x dB) is defined as the frequency range between two points, one above and one below the carrier frequency, at which the spectral density of the emission is attenuated x dB below the maximum in-band spectral density of the modulated signal. Spectral density (power per unit bandwidth) is to be measured with a detector of resolution bandwidth in the range of 1% to 5% of the anticipated emission bandwidth, and a video bandwidth at least 3x the resolution bandwidth. When the occupied bandwidth limit is not stated in the applicable RSS or reference measurement method, the transmitted signal bandwidth shall be reported as the 99% emission bandwidth, as calculated or measured.

The sample tested was found to Comply.

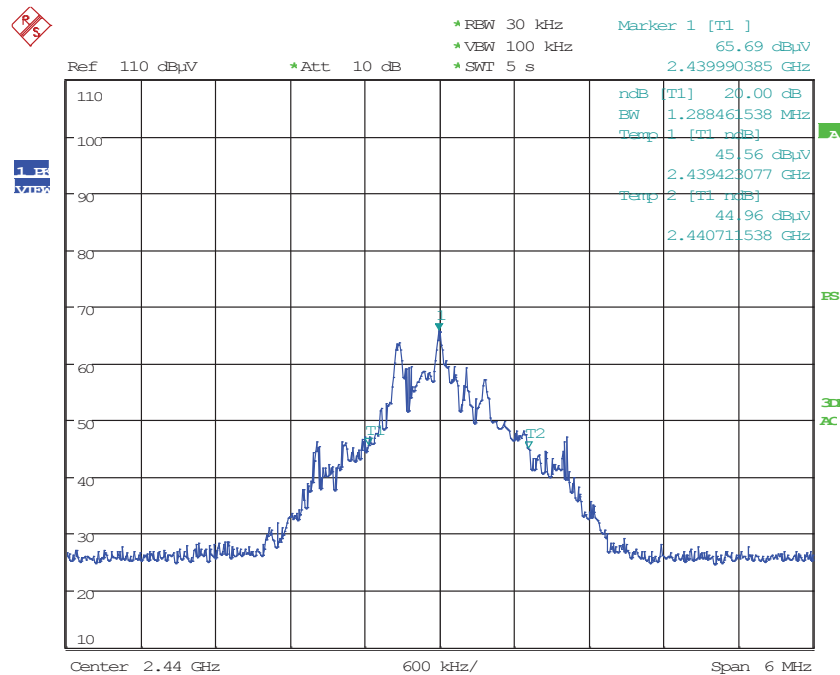
9.4 Setup Photographs:

Setup photographs can be found in Test Setup Photos exhibit.

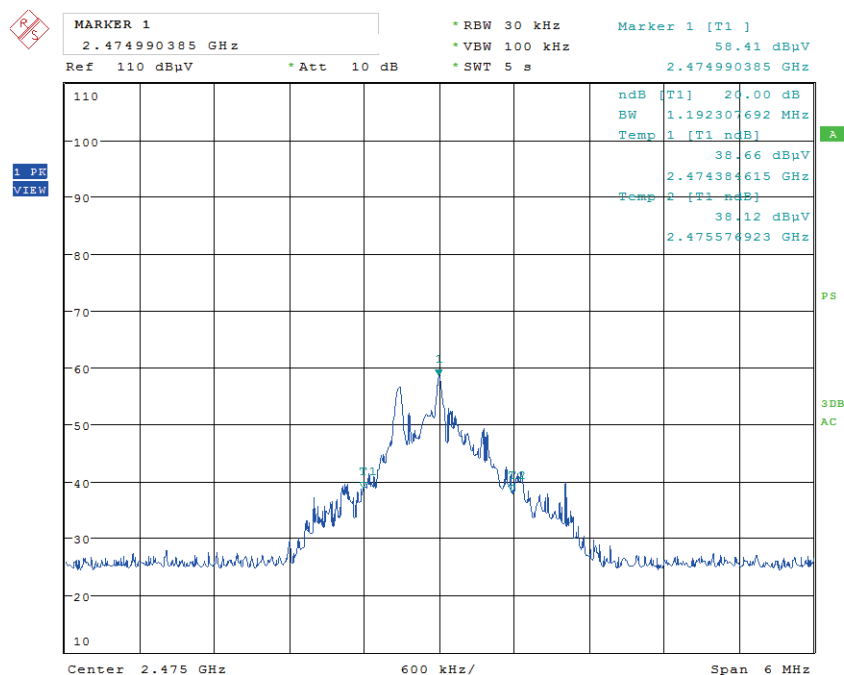
9.5 Plots/Data:



Date: 13.NOV.2014 15:33:36



Date: 13.NOV.2014 15:50:12



Date: 13.NOV.2014 15:40:38

Test Personnel: Mary Sampson *MTS*
Supervising/Reviewing
Engineer:
(Where Applicable)
Product Standard: 47CFR Part 15 Subpart
A:2015 Section 15.215(c),
RSS-GEN Issue 4:Nov 2014,
Input Voltage: Section 6.6
Battery

Test Date: 11/13/2014

Limit Applied: See section 9.3

Ambient Temperature: 21.5 °C

Relative Humidity: 34 %

Atmospheric Pressure: 983 mbars

Deviations, Additions, or Exclusions: None

10 Bandedge**10.1 Method**

Tests are performed in accordance with 47CFR Part 15 Subpart C Section 15.215(c), RSS-210 Issue 8 Dec 2010 Section A2.9(b), and ANSI C63.10:2013.

TEST SITE: EMC Lab

The EMC Lab has two Semi-anechoic Chambers and one Shielded Chamber. AC Mains Power is available at 120, 230, and 277 Single Phase; 208, 400, and 480 3-Phase. Large reference ground-planes are installed in the general lab area to facilitate EMC work not requiring a shielded environment.

10.2 Test Equipment Used:

| Asset | Description | Manufacturer | Model | Serial | Cal Date | Cal Due |
|----------|--|--------------|---------------|-------------|------------|------------|
| 211872; | Barometer, Temperature, and Humidity sensor - Network based. Also marked as iServer MicroServer. | Omega | IBTHX-W | 0240116 | 11/07/2014 | 11/07/2015 |
| 031690; | EMC Analyzer | Agilent | E7405A | US40240205 | 07/31/2014 | 07/31/2015 |
| 213061; | Antenna, Horn, <18 GHz | EMCO | 3115 | 9208-3919 | 07/22/2014 | 07/22/2015 |
| MP1; | Cable MP1, 18 GHz, N, 394 inches | Megaphase | G919-NKNK-310 | MP1 | 11/14/2014 | 11/14/2015 |
| MP3; | Cable MP3, 18 GHz, N, 10m | Megaphase | G919-NKNK-394 | MP3 | 05/08/2014 | 05/08/2015 |
| MP-HF-1; | Cable, 3-meters, 1-18GHz | Megaphase | EM18-N1N1-119 | 12090601001 | 08/26/2014 | 08/26/2015 |

Software Utilized:

| Name | Manufacturer | Version |
|------------------------------------|--------------|---------|
| None (/Spectrum Analyzer Firmware) | | |

10.3 Results:**47CFR Part 15 Subpart C Section 15.215(c)**

(c) Intentional radiators operating under the alternative provisions to the general emission limits, as contained in §§15.217 through 15.257 and in subpart E of this part, must be designed to ensure that the 20 dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equipment operates, is contained within the frequency band designated in the rule section under which the equipment is operated. In the case of intentional radiators operating under the provisions of subpart E, the emission bandwidth may span across multiple contiguous frequency bands identified in that subpart. The requirement to contain the designated bandwidth of the emission within the specified frequency band includes the effects from frequency sweeping, frequency hopping and other modulation techniques that may be employed as well as the frequency stability of the transmitter over expected variations in temperature and supply voltage. If a frequency stability is not specified in the regulations, it is recommended that the fundamental emission be kept within at least the central 80% of the permitted band in order to minimize the possibility of out-of-band operation.

RSS-210 Issue 8 Dec 2010 Section A2.9(b)

(b) Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general field strength limits listed in RSS-Gen, whichever is less stringent.

The sample tested was found to Comply.

10.4 Setup Photographs:

Setup photographs can be found in Test Setup Photos exhibit.

10.5 Plots/Data:

Client: DJO **Receiver:** R&S ESU40
Model Number: Compex Wireless Controller **Antenna:** EMCO 3115
Project Number: G102011503 **Cables:** MPI+MP3+MP-HF-2
Tested By: MTS **Preamp:**
Date: 02/27/2015 **Limit:** FCC15 Class B-3m
Frequency Range (MHz): Bandedge **Test Distance (m):** 3
Input power: Battery **Modifications for compliance (y/n):** n

Notes:

| A | B | C | D | E | F | G | H | I | J | K |
|---------------------|------------------|-------------------|-------------------|------------|--------------|--------------|-----------------|-------------------|--------------|------------------------|
| Ant. | | | Antenna | Cable | Pre-amp | Duty Cycle | | 3m | | |
| Pol. (V/H) | Frequency MHz | Reading dB(uV) | Factor dB(1/m) | Loss dB | Factor dB | Factor dB | Net dB(uV/m) | Limit dB(uV/m) | Margin dB | Detector/ Bandwidth |
| Low channel | | | | | | | | | | |
| H | 2390.000 | 35.4 | 27.9 | 4.1 | 0.0 | 0.0 | 67.4 | 74.0 | -6.6 | PK/1MHz |
| H | 2390.000 | 35.4 | 27.9 | 4.1 | 0.0 | 16.5 | 50.9 | 54.0 | -3.1 | AVG/1MHz |
| High channel | | | | | | | | | | |
| H | 2483.500 | 35.2 | 28.3 | 4.2 | 0.0 | 0.0 | 67.7 | 74.0 | -6.3 | PK/1MHz |
| H | 2483.500 | 35.2 | 28.3 | 4.2 | 0.0 | 16.5 | 51.2 | 54.0 | -2.8 | AVG/1MHz |

EUT was placed in the X, Y and Z orthogonal axes.

Note: PK indicates peak detection. AVG indicates the peak reading corrected by the duty cycle.

Test Personnel: Mary Sampson MTS
 Supervising/Reviewing Engineer:
 (Where Applicable) _____
 47CFR Part 15 Subpart C
 Section 15.215(c), RSS-210
 Issue 8 Dec 2010 Section
 Product Standard: A2.9(b)
 Input Voltage: Battery
 Pretest Verification w/
 Artifact: BB source

Test Date: 02/27/2015Limit Applied: See section 10.3Ambient Temperature: 22.6 °CRelative Humidity: 25.9 %Atmospheric Pressure: 992.7 mbars

Deviations, Additions, or Exclusions: None

11 Digital Parts Emissions

11.1 Method

Tests are performed in accordance with 47CFR Part 15 Subpart C: 2015 Section 15.109, RSS-Gen Issue 4 Nov 2014 Section 7.1.2, and ANSI C63.4:2014.

TEST SITE: 10m Semi-Anechoic Chamber

10 Meter Semi-Anechoic Chamber The test site for radiated emissions is located at 1950 Evergreen Blvd, Suite 100, Duluth, Georgia 30096. It is a 10 meter semi-anechoic chamber manufactured by Panashield. Embedded in the floor is a 3 meter diameter turntable.

Measurement Uncertainty

For radiated emissions, U_{lab} (3.9 dB at 3m and 3.6 dB at 10m below 1 GHz, and 4.2 dB at 3m above 1 GHz) $< U_{CISPR}$ (5.2 dB), which is the reference value in CISPR 16-4-2 Table 1, hence the compliance of the product is only based on the measured value, and no measurement uncertainty correction is required, based on CISPR 22 and CISPR 11 (for 2006 and later revisions) Clause 11.

Sample Calculations

The field strength is calculated by adding the Antenna Factor and Cable Factor, and subtracting the Amplifier Gain (if any) from the measured reading. The basic equation with a sample calculation is as follows:

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

Where

- FS = Field Strength in dB μ V/m
- RA = Receiver Amplitude (including preamplifier) in dB μ V
- CF = Cable Attenuation Factor in dB
- AF = Antenna Factor in dB
- AG = Amplifier Gain in dB

In the following table(s), the reading shown on the data table reflects the preamplifier gain. An example for the calculations in the following table is as follows.

Assume a receiver reading of 52.0 dB μ V is obtained. The antenna factor of 7.4 dB and cable factor of 1.6 dB is added. The amplifier gain of 29 dB is subtracted, giving a field strength of 32 dB μ V/m. This value in dB μ V/m was converted to its corresponding level in μ V/m.

RA = 52.0 dB μ V
 AF = 7.4 dB/m
 CF = 1.6 dB
 AG = 29.0 dB
 FS = 32 dB μ V/m

To convert from dB μ V to μ V or mV the following was used:

$$UF = 10^{(NF / 20)} \text{ where } UF = \text{Net Reading in } \mu\text{V}$$

NF = Net Reading in dB μ V

Example:

$$FS = RA + AF + CF - AG = 52.0 + 7.4 + 1.6 - 29.0 = 32.0$$

$$UF = 10^{(32 \text{ dB}\mu\text{V} / 20)} = 39.8 \mu\text{V/m}$$

11.2 Test Equipment Used:

| Asset | Description | Manufacturer | Model | Serial | Cal Date | Cal Due |
|----------------|-------------------------------------|-------------------|---------------|--------------|------------|------------|
| 211386; | Antenna, BiLog, 20-2000MHz | Chase | CBL6112B | 2622 | 12/18/2014 | 12/18/2015 |
| 200082; | Preamplifier, 20MHz to 2GHz, 30 dB | A.H. Systems | PAM-0202 | 203 | 10/02/2014 | 10/02/2015 |
| E210; | RF Coax Cable | Megaphase | TM18-N1N1-120 | 14065201-003 | 05/08/2014 | 05/08/2015 |
| E209; | RF Coax Cable | Megaphase | TM18-N1N1-120 | 14065201-003 | 05/08/2014 | 05/08/2015 |
| TT6; | RF Coax Cable. Rated 9KHz to 2 GHz. | Andrews | Cable TT-6 | TT6 | 06/18/2014 | 06/18/2015 |
| TW2 211411; | Cable TW2 | Andrews | Cable TW2 | TW2 | 05/08/2014 | 05/08/2015 |
| 015762; | EMI Receiver, Preselector section | Hewlett Packard | 85460A | 3330A00158 | 04/09/2014 | 04/09/2015 |
| 211505; | EMI Receiver | Hewlett Packard | 8546A | 3650A00362 | 04/09/2014 | 04/09/2015 |
| T006217 | THDX | Oregon Scientific | BA888 | NSN | 12/11/2013 | 12/11/2014 |

Software Utilized:

| Name | Manufacturer | Version |
|------|----------------|----------|
| Tile | Quantum Change | 3.4.K.22 |

11.3 Results:**47CFR Part 15 Subpart C: 2015 Section 15.109**

(a) Except for Class A digital devices, the field strength of radiated emissions from unintentional radiators at a distance of 3 meters shall not exceed the following values:

| Frequency of emission (MHz) | Field strength (microvolts/meter) |
|-----------------------------|-----------------------------------|
| 30–88 | 100 |
| 88–216 | 150 |
| 216–960 | 200 |
| Above 960 | 500 |

RSS-Gen Issue 4 Nov 2014 Section 7.1.2

| Frequency (MHz) | Field Strength ($\mu\text{V}/\text{m}$ at 3 metres)* |
|---|---|
| 30–88 | 100 |
| 88–216 | 150 |
| 216–960 | 200 |
| Above 960 | 500 |
| * Measurements for compliance with limits in the above table may be performed at distances other than 3 metres, in accordance with Section 6.5. | |

The sample tested was found to Comply.

11.4 Setup Photographs:

Setup photographs can be found in Test Setup Photos exhibit.

11.5 Plots/Data:

Client: DJO Global
 Model Number: Remote Controller REF 6522040
 Project Number: Q500558693
 Tested By: LEM
 Date: 11/6/14
 Frequency Range (MHz): 30-1000
 Input power: Battery
 Receiver: HP 8546A
 Antenna: Chase 2622
 Cables: E-205+E-209+TT-6+TW2
 Preamp: ZKL-2 200069
 Test Distance (m):
 Limit: CISPR Class A-10m

| IDLE Mode | | | Modifications for compliance (y/n): n | | | | | | |
|-----------------|---------------|----------------|---------------------------------------|---------------|-------------------|--------------|--------------------|-----------|------------------------------------|
| A | B | C | D | E | F | G | H | I | J |
| Ant. Pol. (V/H) | Frequency MHz | Reading dB(uV) | Antenna Factor dB(1/m) | Cable Loss dB | Pre-amp Factor dB | Net dB(uV/m) | 10m Limit dB(uV/m) | Margin dB | Detectors / Bandwidths Det/RBW/VBW |
| V | 31.899 | 34.3 | 17.7 | 0.9 | 31.6 | 21.2 | 40.0 | -18.8 | 120KHz |
| V | 39.919 | 33.8 | 13.6 | 1.0 | 31.6 | 16.8 | 40.0 | -23.2 | 120KHz |
| V | 108.472 | 31.0 | 11.9 | 2.0 | 31.4 | 13.5 | 40.0 | -26.5 | 120KHz |
| V | 88.141 | 30.7 | 8.8 | 1.8 | 31.5 | 9.9 | 40.0 | -30.1 | 120KHz |
| H | 32.418 | 34.4 | 16.5 | 0.9 | 31.6 | 20.2 | 40.0 | -19.8 | 120KHz |
| H | 36.112 | 34.0 | 13.7 | 0.9 | 31.6 | 17.0 | 40.0 | -23.0 | 120KHz |
| Calculations | | G=C+D+E-F | | I=G-H | | | | | |

| | |
|--|--|
| Test Personnel: <u>Larry Miller</u> | Test Date: <u>11/6/2014</u> |
| Supervising/Reviewing Engineer: (Where Applicable) <u>47CFR Part 15 Subpart C: 2015 Section 15.109, RSS- Gen Issue 4 Nov 2014 Section 7.1.2</u> | Limit Applied: <u>See section 7.3</u> |
| Product Standard: <u>Battery</u> | |
| Input Voltage: <u>Battery</u> | |
| Pretest Verification w/ Ambient Signals or BB Source: <u>BB Source</u> | Ambient Temperature: <u>22°C</u> |
| | Relative Humidity: <u>40 %</u> |
| | Atmospheric Pressure: <u>983 mbars</u> |

Deviations, Additions, or Exclusions: None

12 RF Exposure

SAR test exclusion threshold formula according to FCC KDB 447898 D01 v05r02 is

$$P \cdot \sqrt{f/d} < 3$$

where

P is max. power of channel, including tune-up tolerance, mW

f is operating frequency in GHz

d is min. test separation distance, mm

The maximum measured radiated power is 0.03 mW (-15.13 dBm). The antenna gain, G is 1.0 dBi. Therefore, the conducted power (P) is 0.03 mW.

At 5mm distance the condition for SAR exclusion threshold is

$$0.03 \times \sqrt{0.2403 \div 5} = 0.02 \text{ which is less than } 3.$$

Therefore, SAR testing is not required as the SAR Test Exclusion Threshold condition is satisfied.

Therefore, SAR testing is not required as the SAR Test Exclusion Threshold condition is satisfied.

SAR Exemption limit according to IC RSS-102 Issue 5, at 5 mm separation distance = 4 mW

Routine evaluation is not required since the higher of the maximum conducted or equivalent isotropically radiated power (e.i.r.p.) source-based, time averaged output power is below the exemption limit.

13 Revision History

| Revision Level | Date | Report Number | Prepared By | Reviewed By | Notes |
|----------------|------------|------------------|----------------|-------------|----------------|
| 0 | 05/06/2015 | 102011503ATL-001 | MTS <i>MTS</i> | KV | Original Issue |
| | | | | | |
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