

EMC TEST REPORT

Report Number: 102114950ATL-001

Project Number: G102114950

Report Issue Date: June 22, 2015

Product Designation: COMPEX Module

Model tested: 001062

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

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 Module	DJO	001062	YOP013860 TX and RX mode testing
Wireless Professional Module	DJO	001062	YOP014435 RX mode testing
Wireless Professional Module	DJO	001062	YOP013793 RX mode testing
Wireless Professional Module	DJO	001062	YOP014434 RX mode testing

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

Description of Equipment Under Test (provided by client)

The Compex Wireless USA stimulation module set is composed of 4 independent stimulation modules that are controlled via the remote control by a wireless connection. Each module is composed of two "pods" (one battery "pod" and one stimulation "pod") linked by an electrical connection cable. Two proprietary Compex Standard snap gel electrodes are also needed to connect each "pod" to the body. The modules are powered by a Lithium Polymer (LiPo) rechargeable 3.7V/≥ 450 mAH battery.

Equipment Under Test Power Configuration			
Rated Voltage	Rated Current	Rated Frequency	Number of Phases
3.7 Vdc	N/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: 0301x779A712F

5 System Setup and Method

Cables					
ID	Description	Length (m)	Shielding	Ferrites	Termination
A	Electrical Connection	0.18	No	No	Battery Pod/Stimulation Pod

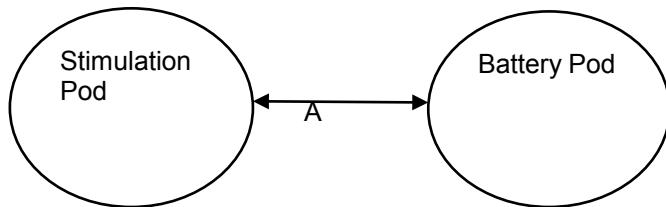
Support Equipment			
Description	Manufacturer	Model Number	Serial Number
None			

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:

For TX Mode, one module was used during testing. For RX mode, four modules were used during testing.



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 $\text{dB}\mu\text{V}/\text{m}$

RA = Receiver Amplitude (including preamplifier) in $\text{dB}\mu\text{V}$

CF = Cable Attenuation Factor in dB

AF = Antenna Factor in dB

AG = Amplifier Gain in dB

In the 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 $\text{dB}\mu\text{V}$ is obtained. The antenna factor of 7.4 dB and cable factor of 1.6 dB is added. The amplifier gain of 29 dB is subtracted, giving a field strength of 32 $\text{dB}\mu\text{V}/\text{m}$. This value in $\text{dB}\mu\text{V}/\text{m}$ was converted to its corresponding level in $\mu\text{V}/\text{m}$.

$$RA = 52.0 \text{ dB}\mu\text{V}$$

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

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

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

$$FS = 32 \text{ dB}\mu\text{V}/\text{m}$$

To convert from $\text{dB}\mu\text{V}$ to μV or mV the following was used:

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

$NF = \text{Net Reading in } \text{dB}\mu\text{V}$

Example:

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

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

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		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
E207;	RF Coax Cable	Megaphase	TM18-N1N1-120	14065201-001	05/07/2015	05/07/2016
E210;	RF Coax Cable	Megaphase	TM18-N1N1-120	14065201-004	05/07/2015	05/07/2016
200108;	Preamplifier, 20 MHz to 18 GHz, 40 dB	A.H. Systems	PAM-0118	199	12/03/2014	12/03/2015

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 LLC		Receiver: R&S ESU40					
Model Number: 001062		Antenna: RMCO 3115					
Project Number: G102114950		Cables: MPI+MP3+HS-210+HS-207					
Tested By: MTS		Preamp: PAM-0118					
Date: 05/14/2015		Limit: FCC15 Class B-3m					
Frequency Range (MHz): Fundamental		Test Distance (m): 3					
Input power: Battery		Modifications for compliance (y/n): n					
Notes: Continuous Transmission							
A	B	C	D	E	F	G	H
Ant.			Antenna	Cable	Pre-amp	Duty Cycle	
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, low channel							
H	2403.000	55.6	28.3	6.7	38.9	0.0	51.8
H	2403.000	55.6	28.3	6.7	38.9	0.0	51.8
V	2403.000	55.8	28.3	6.7	38.9	0.0	51.9
V	2403.000	55.8	28.3	6.7	38.9	0.0	51.9
X-axis, mid channel							
H	2440.000	48.1	28.3	6.8	39.0	0.0	44.3
H	2440.000	48.1	28.3	6.8	39.0	0.0	44.3
V	2440.000	47.1	28.3	6.8	39.0	0.0	43.2
V	2440.000	47.1	28.3	6.8	39.0	0.0	43.2
X-axis, high channel							
H	2475.000	45.1	28.3	6.8	38.9	0.0	41.3
H	2475.000	45.1	28.3	6.8	38.9	0.0	41.3
V	2475.000	46.3	28.3	6.8	38.9	0.0	42.4
V	2475.000	46.3	28.3	6.8	38.9	0.0	42.4
Y-axis, low channel							
H	2403.000	56.0	28.3	6.7	38.9	0.0	52.2
H	2403.000	56.0	28.3	6.7	38.9	0.0	52.2
V	2403.000	55.6	28.3	6.7	38.9	0.0	51.7
V	2403.000	55.6	28.3	6.7	38.9	0.0	51.7
Y-axis, mid channel							
H	2440.000	44.8	28.3	6.8	39.0	0.0	41.0
H	2440.000	44.8	28.3	6.8	39.0	0.0	41.0
V	2440.000	45.3	28.3	6.8	39.0	0.0	41.5
V	2440.000	45.3	28.3	6.8	39.0	0.0	41.5
Y-axis, high channel							
H	2475.000	45.7	28.3	6.8	38.9	0.0	41.8
H	2475.000	45.7	28.3	6.8	38.9	0.0	41.8
V	2475.000	44.0	28.3	6.8	38.9	0.0	40.2
V	2475.000	44.0	28.3	6.8	38.9	0.0	40.2
Z-axis, low channel							
H	2403.000	64.2	28.3	6.7	38.9	0.0	60.4
H	2403.000	64.2	28.3	6.7	38.9	0.0	60.4
V	2403.000	65.6	28.3	6.7	38.9	0.0	61.7
V	2403.000	65.6	28.3	6.7	38.9	0.0	61.7
Z-axis, mid channel							
H	2440.000	50.9	28.3	6.8	39.0	0.0	47.1
H	2440.000	50.9	28.3	6.8	39.0	0.0	47.1
V	2440.000	50.5	28.3	6.8	39.0	0.0	46.6
V	2440.000	50.5	28.3	6.8	39.0	0.0	46.6
Z-axis, high channel							
H	2475.000	46.3	28.3	6.8	38.9	0.0	42.5
H	2475.000	46.3	28.3	6.8	38.9	0.0	42.5
V	2475.000	48.0	28.3	6.8	38.9	0.0	44.2
V	2475.000	48.0	28.3	6.8	38.9	0.0	44.2
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.

Testing was done with EUT positioned at 0.8m and 1.5 m heights above ground reference plane. The test data presented represents the worst case emissions.

Test Personnel: Mary Sampson MTS
 Supervising/Reviewing
 Engineer:
 (Where Applicable)

Product Standard: A2.9
 Input Voltage: Battery, 3.7 Vdc
 Pretest Verification w/
 Ambient Signals or
 BB Source: BB Source

Test Date: 05/14/2015
 Limit Applied: See section 6.3
 Ambient Temperature: 23.6 °C
 Relative Humidity: 41.6 %
 Atmospheric Pressure: 992.2 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 $\text{dB}\mu\text{V}/\text{m}$

RA = Receiver Amplitude (including preamplifier) in $\text{dB}\mu\text{V}$

CF = Cable Attenuation Factor in dB

AF = Antenna Factor in dB

AG = Amplifier Gain in dB

In the 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 $\text{dB}\mu\text{V}$ is obtained. The antenna factor of 7.4 dB and cable factor of 1.6 dB is added. The amplifier gain of 29 dB is subtracted, giving a field strength of 32 $\text{dB}\mu\text{V}/\text{m}$. This value in $\text{dB}\mu\text{V}/\text{m}$ was converted to its corresponding level in $\mu\text{V}/\text{m}$.

$$RA = 52.0 \text{ dB}\mu\text{V}$$

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

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

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

$$FS = 32 \text{ dB}\mu\text{V}/\text{m}$$

To convert from $\text{dB}\mu\text{V}$ to μV or mV the following was used:

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

$$NF = \text{Net Reading in } \text{dB}\mu\text{V}$$

Example:

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

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

7.2 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
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
E207;	RF Coax Cable	Megaphase	TM18-N1N1-120	14065201-001	05/07/2015	05/07/2016
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
E405;	Cable E405, 40 GHz, 2.9, 2m	Megaphase	TM40 K1K1-80	E405	08/27/2014	08/27/2015
211386;	Antenna, BiLog, 20-2000MHz	Chase	CBL6112B	2622	12/18/2014	12/18/2015
200069;	Preamplifier, 10 MHz to 2000 MHz, 30 dB gain	Mini-Circuits	ZKL-2	D011105	03/31/2015	01/13/2016
E210;	RF Coax Cable	Megaphase	TM18-N1N1-120	14065201-004	05/07/2015	05/07/2016
TT6;	RF Coax Cable. Rated 9KHz to 2 GHz.	Andrews	Cable TT-6	TT6	06/18/2014	06/18/2015
MP3;	Cable MP3, 18 GHz, N, 10m	Megaphase	G919-NKNK-394	MP3	05/07/2015	05/07/2016
013662;	Multimeter	Fluke	77 II	61170590	12/08/2014	12/08/2015
None;	EMC Analyzer, 9 kHz to 26.5 GHz	Hewlett Packard	E7405A	US3915014	05/19/2015	05/19/2015

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.

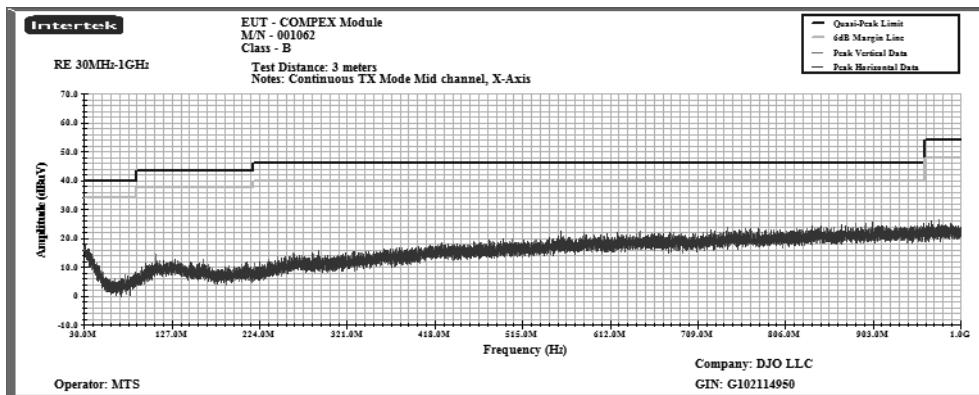
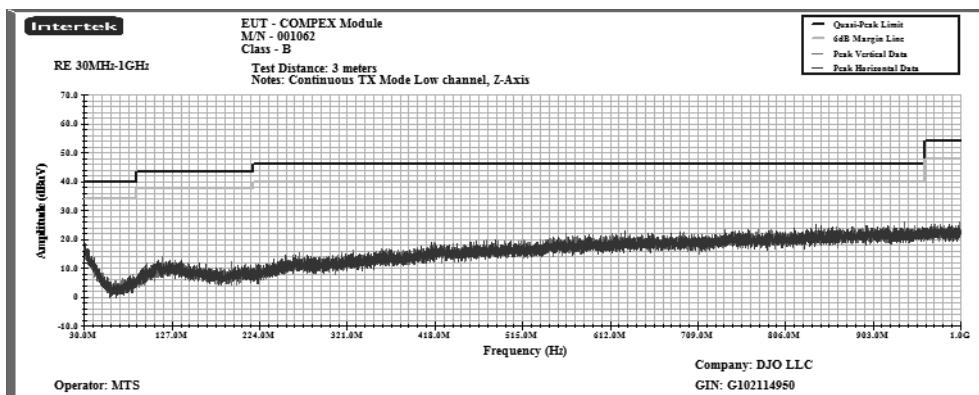
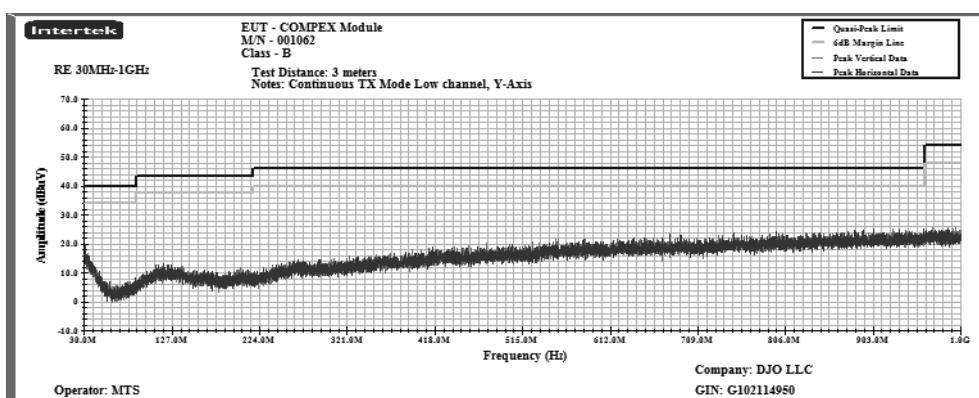
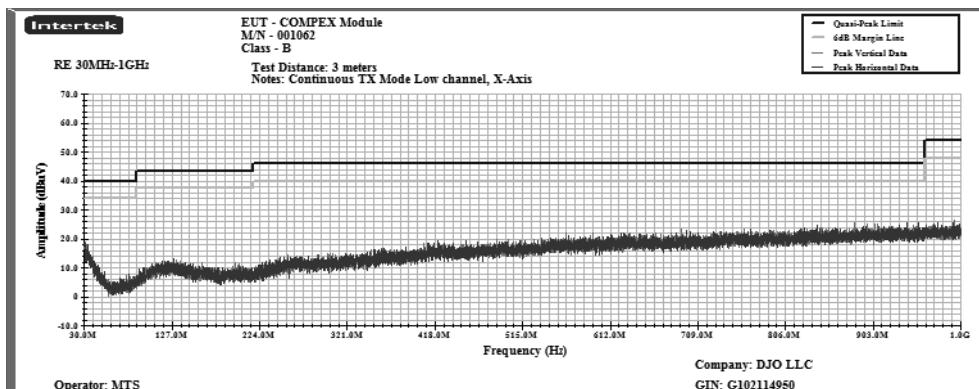
Testing was performed with EUT in X, Y, and Z axis from 30 MHz to 25 GHz. All emissions were more than 20 dB below the limit except the fundamental.

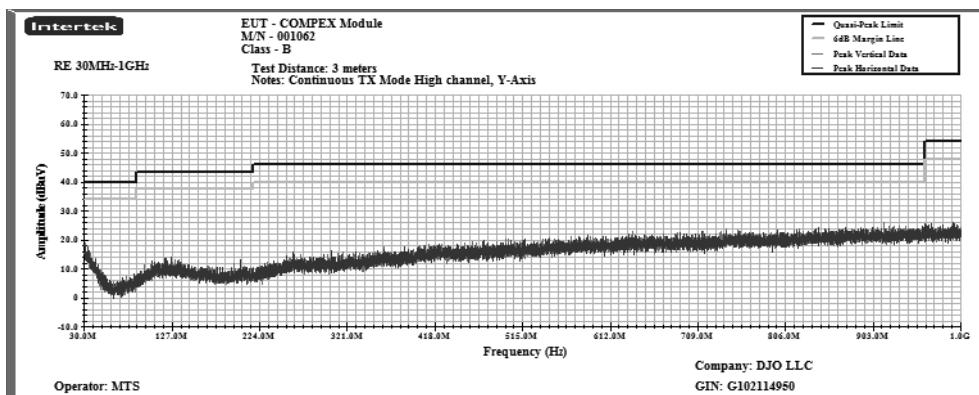
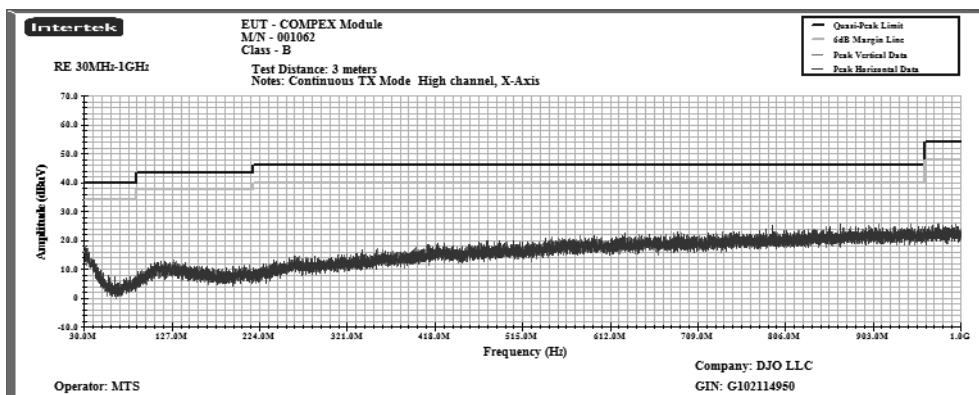
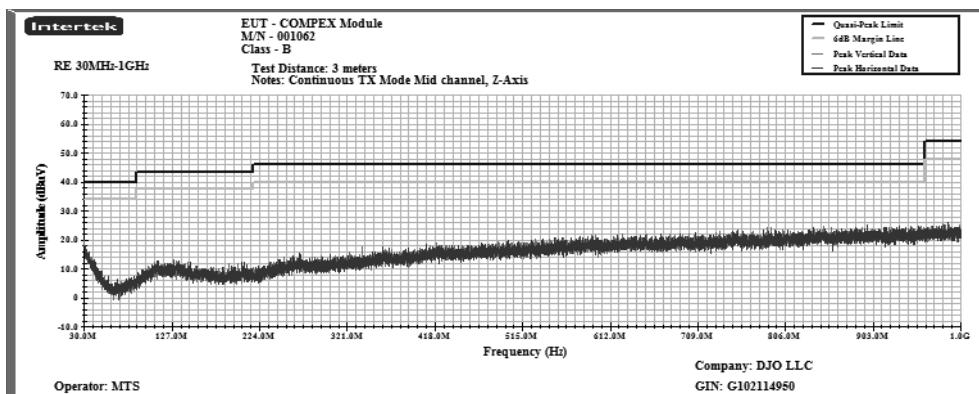
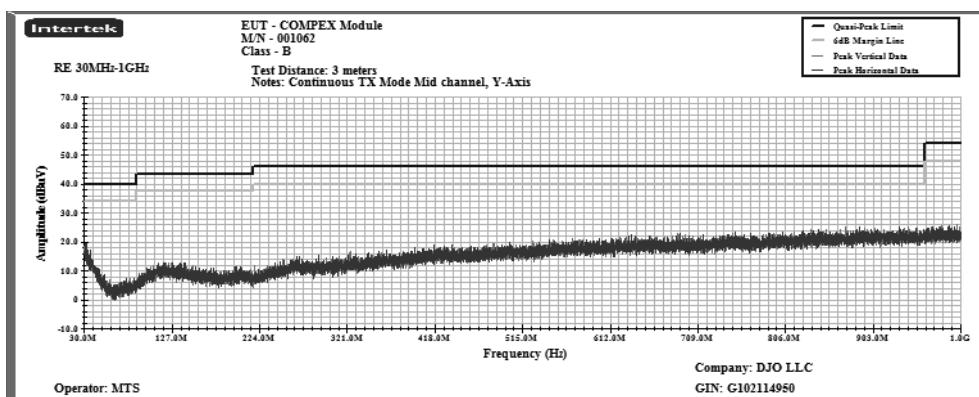
The sample tested was found to Comply.

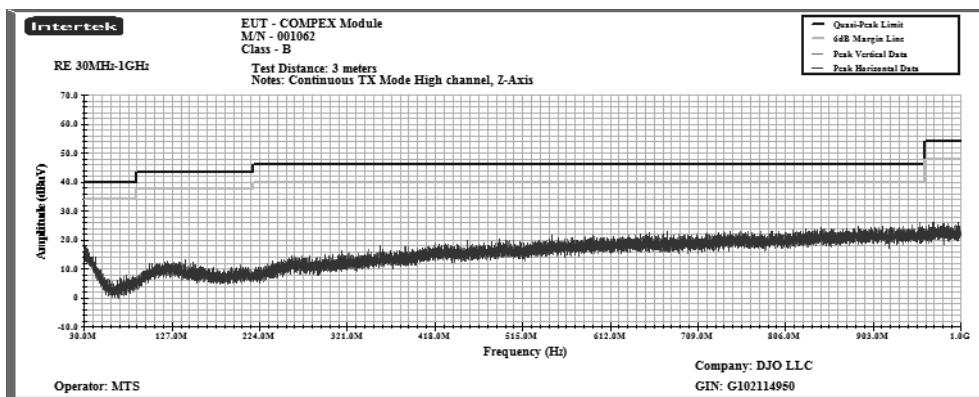
7.4 Setup Photographs:

Setup photographs can be found in Test Setup Photos exhibit.

7.5 Plots/Data:







Client: DJO LLC
Model Number: 001062
Project Number: G102114950
Tested By: MTS
Date: 05/13/2015

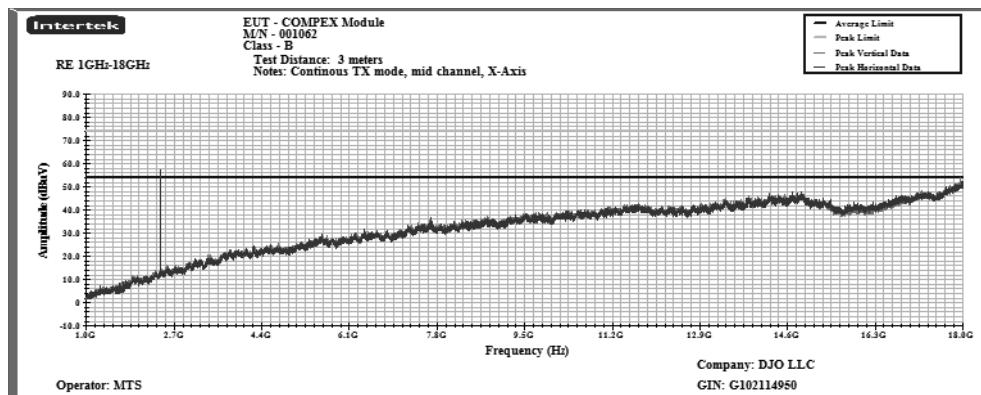
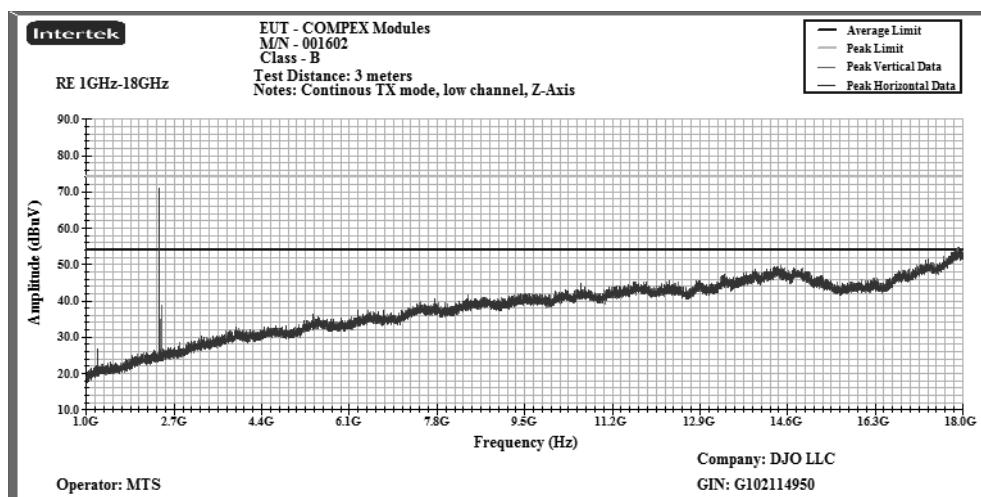
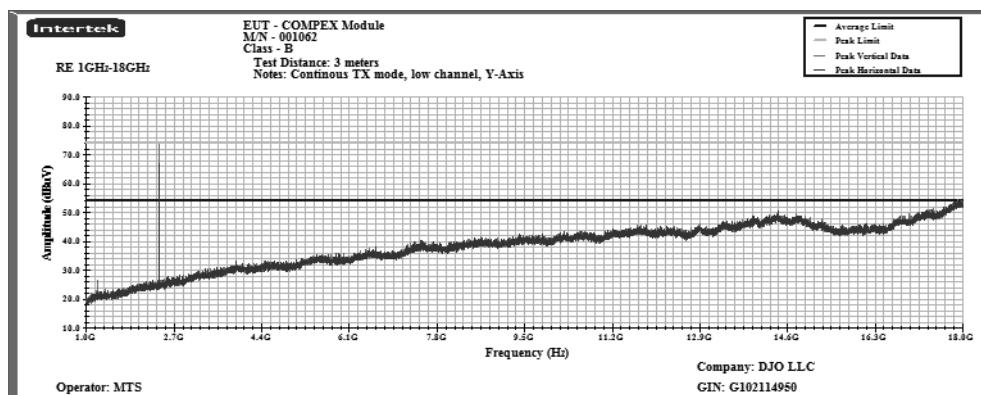
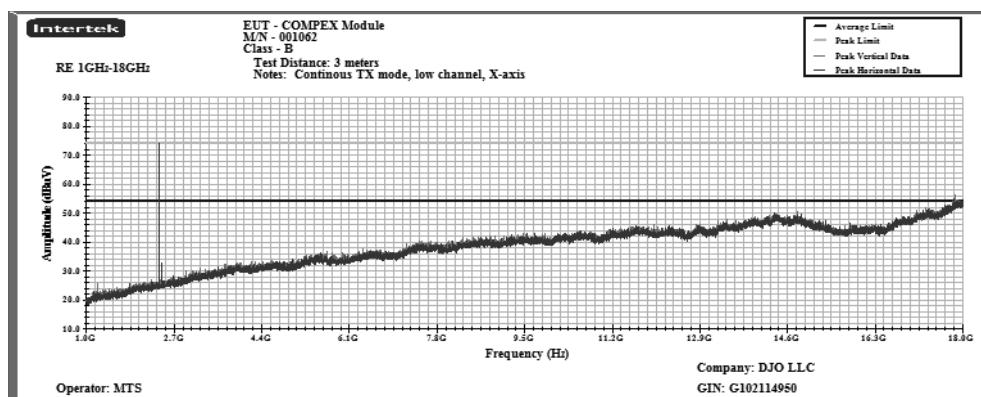
Frequency Range (MHz): 30-1000

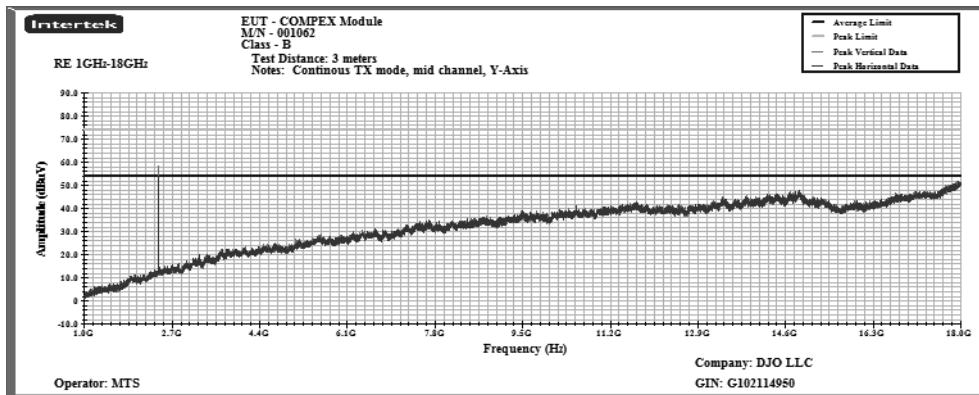
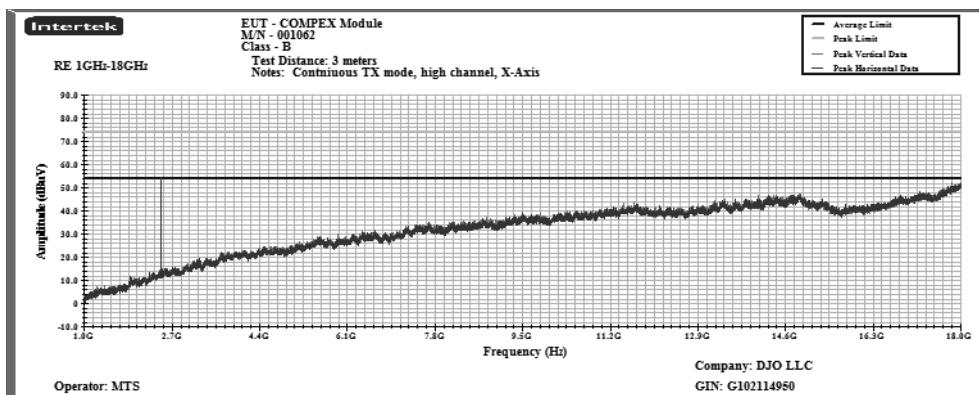
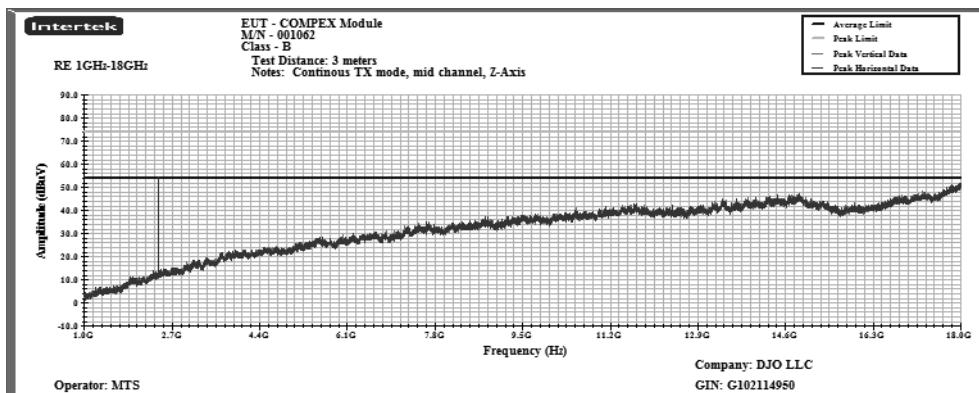
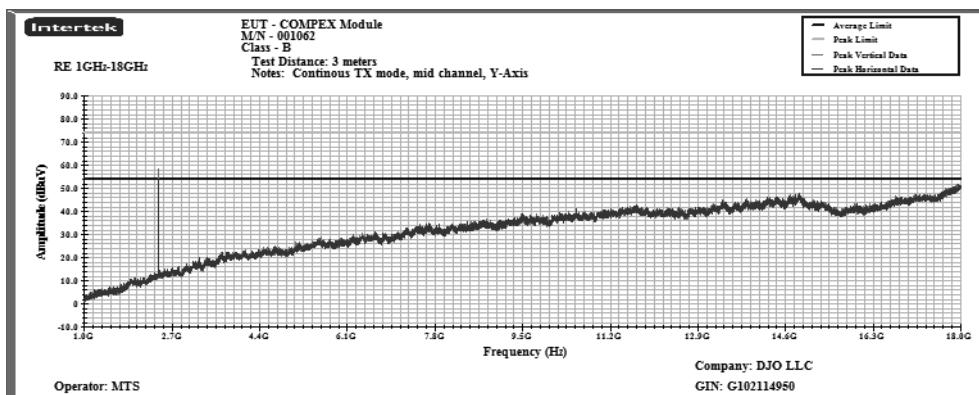
Input power: Battery

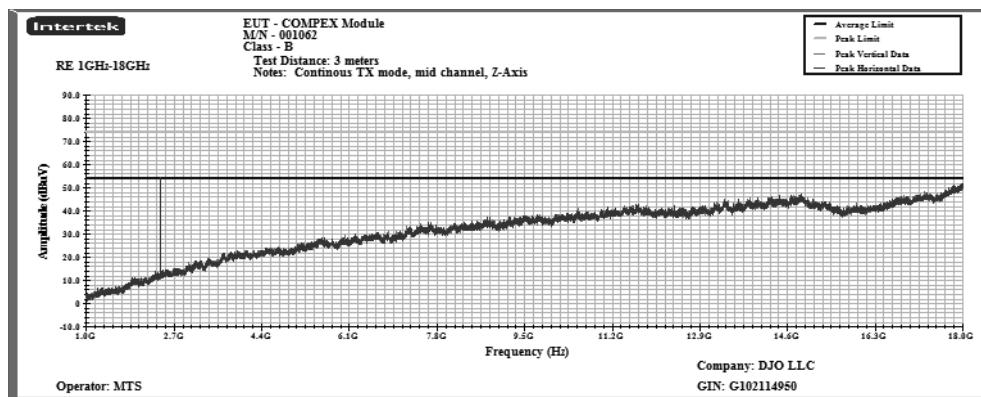
Receiver: R&S ESU40
Antenna: Chase 2622
Cables: TT-6+MP3+E-210+E-207
Preamp: ZKL-2 200069

Test Distance (m): 3
Limit: FCC15 Class B-3m

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)	3m Limit dB(uV/m)	Margin dB	Detectors / Bandwidths Det/RBW
Continuous TX Low channel, 2403 MHz, X-Axis									
V	993.307	32.1	22.5	6.7	40.9	20.4	54.0	-33.6	QP/120kHz
Continuous TX Low channel, 2403 MHz, Y-Axis									
V	993.695	32.1	22.5	6.7	40.9	20.4	54.0	-33.6	QP/120kHz
Continuous TX Low channel, 2403 MHz, Z-Axis									
V	937.047	32.0	22.0	6.5	40.7	19.7	46.0	-26.3	QP/120kHz
Continuous TX Mid channel, 2440 MHz, X-Axis									
H	902.321	31.8	20.7	6.3	40.7	18.1	46.0	-27.9	QP/120kHz
V	975.944	31.9	22.4	6.6	40.8	20.1	54.0	-33.9	QP/120kHz
Continuous TX Mid channel, 2440 MHz, Y-Axis									
H	31.843	33.2	17.3	1.1	40.4	11.3	40.0	-28.7	QP/120kHz
Continuous TX Mid channel, 2440 MHz, Z-Axis									
H	985.644	31.9	21.2	6.6	40.8	18.9	54.0	-35.1	QP/120kHz
Continuous TX High channel, 2475 MHz, X-Axis									
H	791.838	31.8	20.2	5.9	40.5	17.3	46.0	-28.7	QP/120kHz
Continuous TX High channel, 2475 MHz, Y-Axis									
V	915.125	31.9	21.8	6.4	40.7	19.4	46.0	-26.6	QP/120kHz
Continuous TX High channel, 2475 MHz, Z-Axis									
H	997.187	32.1	21.2	6.7	40.9	19.1	54.0	-34.9	QP/120kHz
Calculations	G=C+D+E-F			I=G-H					







Testing was done with EUT positioned at 0.8 and 1.5 m height above ground reference plane. The test data presented represents the worst case emissions.

All spurious emissions above 1GHz are noise floor and it was verified that average reading is at least 10 dB below the peak reading.

Test Personnel: Mary Sampson MTS
 Supervising/Reviewing
 Engineer:
 (Where Applicable) _____
 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
 Product Standard:
 Input Voltage: Battery, 3.7 Vdc
 Pretest Verification w/
 Ambient Signals or
 BB Source: BB

Test Date: 05/13/2015

Limit Applied: See section 7.3

Ambient Temperature: 24.3 °C
 Relative Humidity: 43.1 %
 Atmospheric Pressure: 989.3 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
211872;	Barometer, Temperature, and Humidity sensor - Network based. Also marked as iServer MicroServer.	Omega	iBTHX-W	0240116	11/07/2014	11/07/2015
200162;	EMI Receiver (20Hz-40GHz)	Rohde & Schwarz	ESU 40	100314	03/02/2015	03/02/2016

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

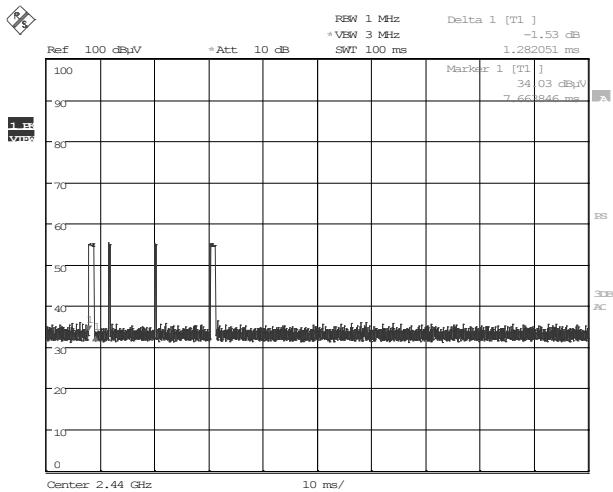
When the field strength (or envelope power) is not constant or it is in pulses, and an average detector is specified to be used, the value of field strength or power shall be determined by averaging over one complete pulse train, including blanking intervals within the pulse train, as long as the pulse 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.

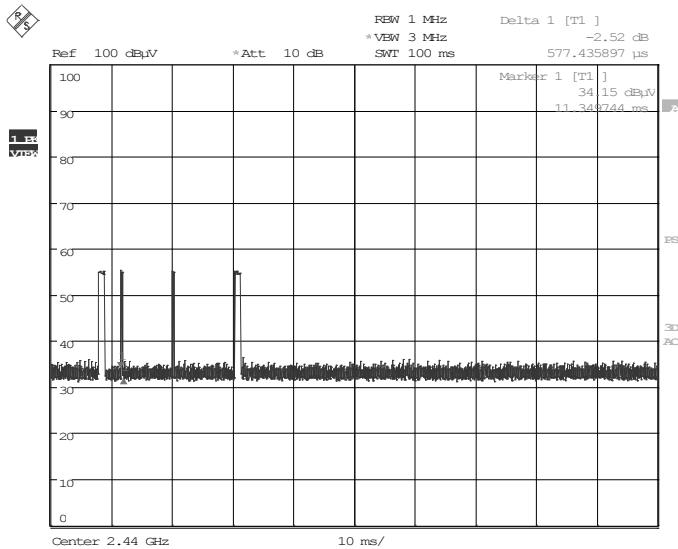
8.4 Plots/Data:

2 pulses at 1.282051 ms = 2.564102 ms



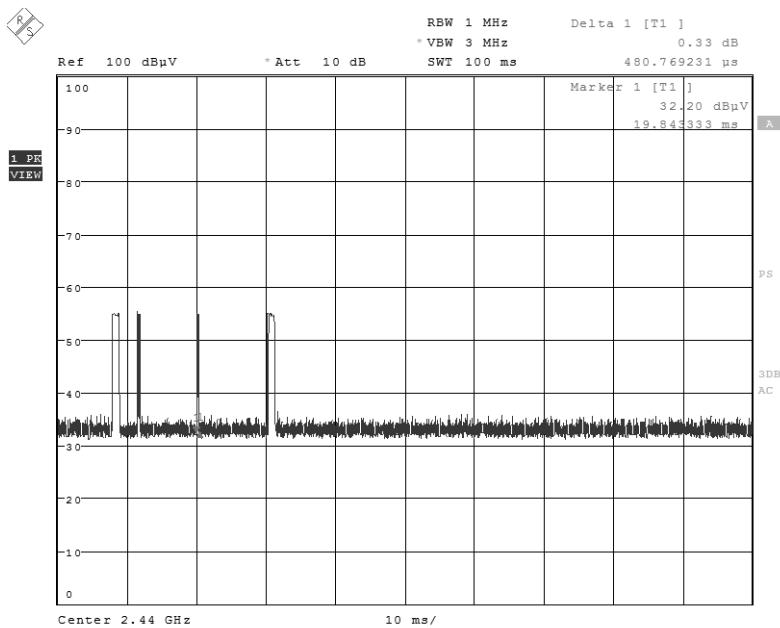
Date: 12.MAY.2015 13:51:23

1 pulse at 577.435897 µs = 0.000577435897 ms



Date: 12.MAY.2015 13:51:59

1 pulse at 480.769231 µs = 0.000480769231 ms



Date: 12.MAY.2015 13:52:21

Duty cycle correction factor

$$= 2 \text{ pulses at } 1.282051 \text{ ms} = 2.564102 \text{ ms} + 1 \text{ pulse at } 577.435897 \mu\text{s} = 0.000577435897 \text{ ms}$$

$$+ 1 \text{ pulse at } 480.769231 \mu\text{s} = 0.000480769231 \text{ ms}$$

$$= 2.564102 \text{ ms} + 0.000577435897 \text{ ms} + 0.000480769231 \text{ ms} / 100 \text{ ms} = 0.02565160205128$$
Duty correction factor = $20 \log (0.02565160205128) = -31.8 \text{ dB}$

Test Personnel: Mary Sampson MTS
 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
 Product Standard: C63.10:2013
 Input Voltage: Battery

Test Date: 05/12/2015Limit Applied: See section 8.3

Ambient Temperature: 24.2 °C
 Relative Humidity: 45.7 %
 Atmospheric Pressure: 988.1 mbars

Deviations, Additions, or Exclusions: None

9 20 dB and Occupied 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
211872;	Barometer, Temperature, and Humidity sensor - Network based. Also marked as iServer MicroServer.	Omega	iBTHX-W	0240116	11/07/2014	11/07/2015
200162;	EMI Receiver (20Hz-40GHz)	Rohde & Schwarz	ESU 40	100314	03/02/2015	03/02/2016

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.

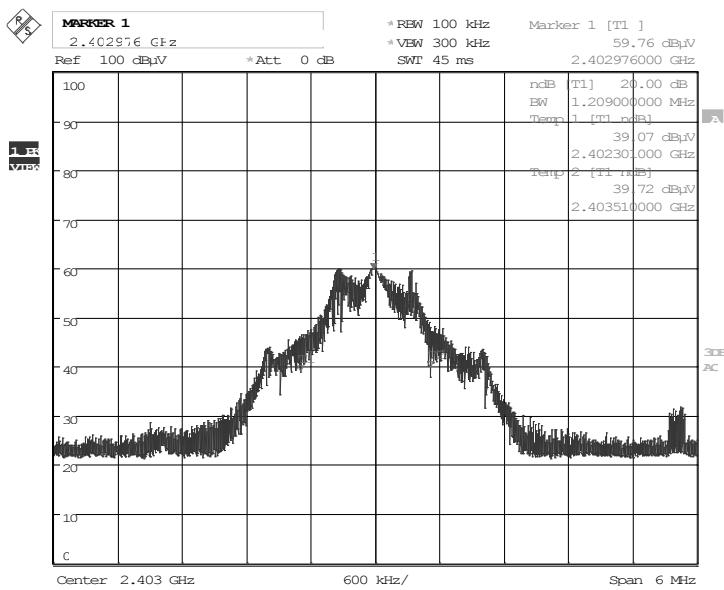
RSS-GEN Issue 4 Nov 2014, Section 6.6

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.

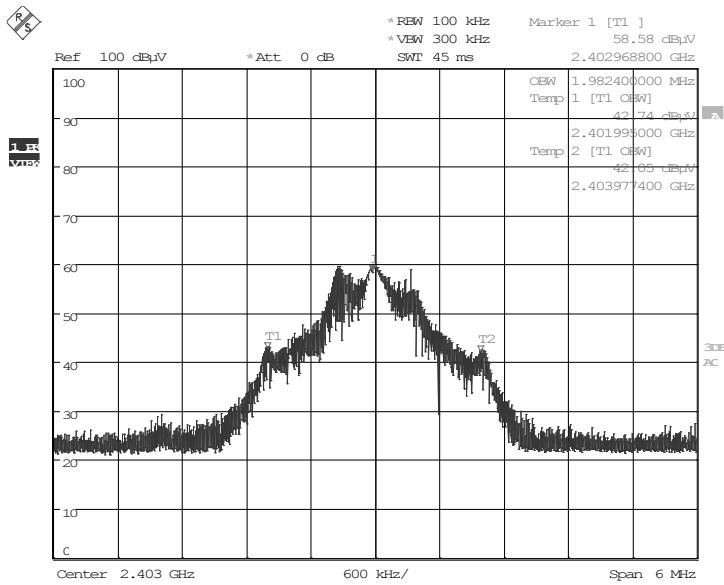
When the occupied bandwidth limit is not stated in the applicable RSS or reference measurement method, the transmitted signal bandwidth shall be reported as the 99% emission bandwidth, as calculated or measured.

The sample tested was found to Comply.

9.4 Plots/Data:

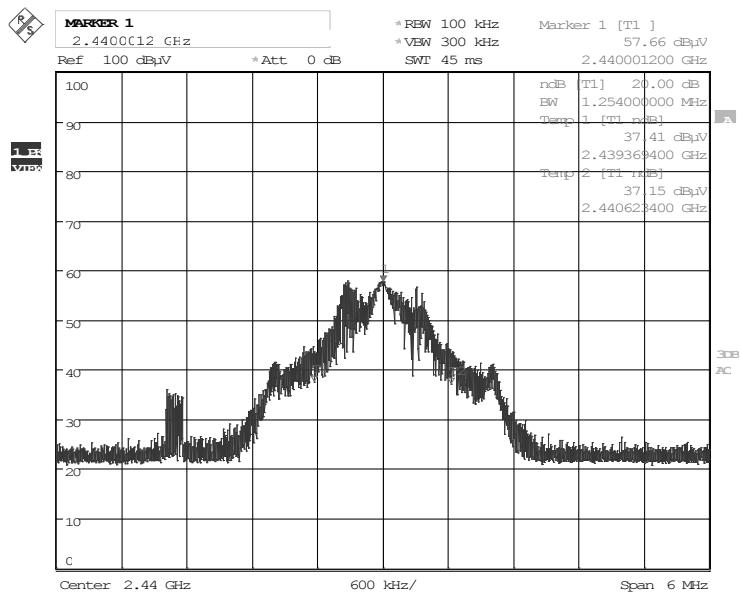


Date: 10.JUN.2015 12:09:42

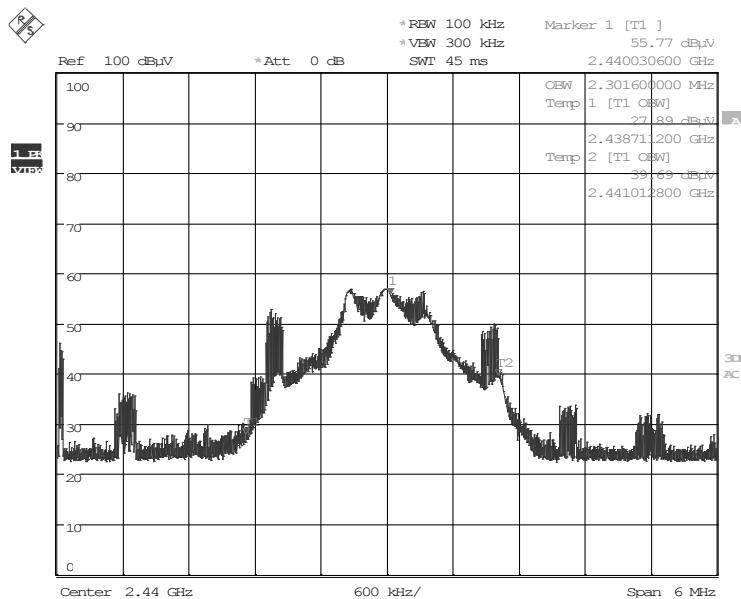


Date: 10.JUN.2015 12:06:15

20 dB BW = 1.209 MHz
Occupied BW = 1.982

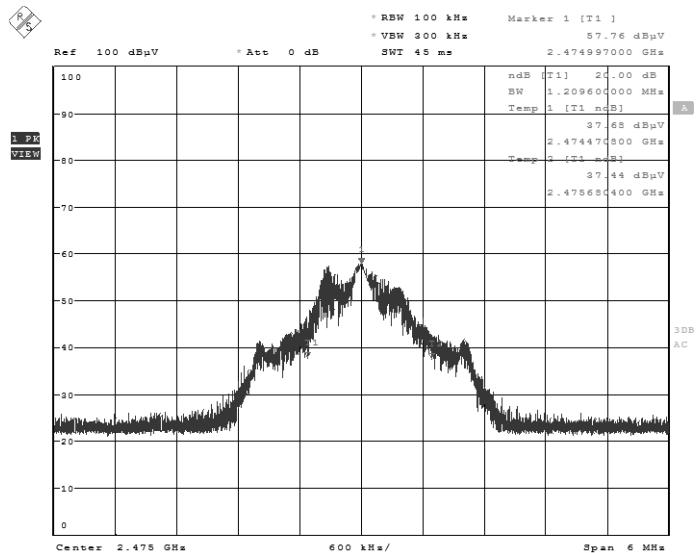


Date: 10.JUN.2015 12:17:24

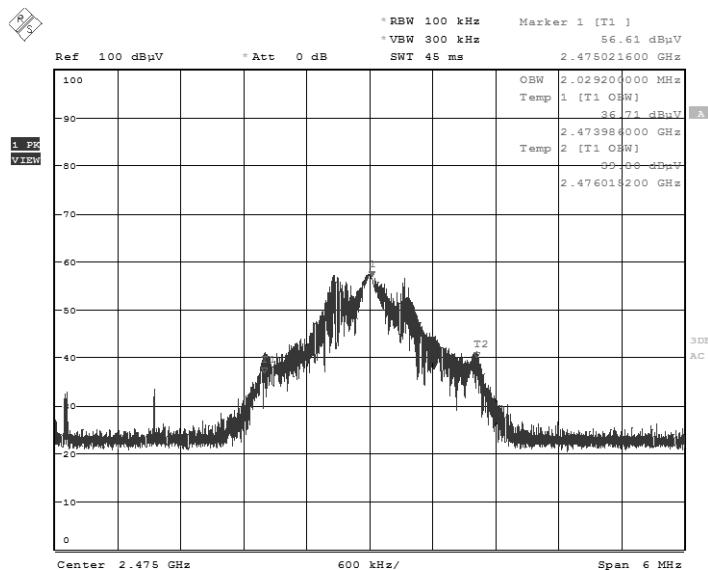


Date: 10.JUN.2015 12:34:53

20 dB BW = 1.254 MHz
Occupied BW = 2.301 MHz



Date: 10.JUN.2015 14:22:19



Date: 10.JUN.2015 14:24:36

20 dB BW = 1.209 MHz
 Occupied BW = 2.092 MHz

Test Personnel: Mary Sampson MTS
 Supervising/Reviewing
 Engineer:
 (Where Applicable)

47CFR Part 15 Subpart
 A:2015 Section 15.215(c),
 Product Standard: RSS-GEN Issue 4:Nov 2014,

Test Date: 06/10/2015

Limit Applied: See section 9.3

Section 6.6
Input Voltage: Battery, 3.7 Vdc

Ambient Temperature: 24.4 °C
Relative Humidity: 45.4 %
Atmospheric Pressure: 980.4 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
200162;	EMI Receiver (20Hz-40GHz)	Rohde & Schwarz	ESU 40	100314	03/02/2015	03/02/2016
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	05/07/2015	05/07/2016
E210;	RF Coax Cable	Megaphase	TM18-N1N1-120	14065201-004	05/07/2015	05/07/2016
E207;	RF Coax Cable	Megaphase	TM18-N1N1-120	14065201-001	05/07/2015	05/07/2016
200108;	Preamplifier, 20 MHz to 18 GHz, 40 dB	A.H. Systems	PAM-0118	199	12/03/2014	12/03/2015

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 LLC	Receiver: R&S ESU40									
Model Number: 001602	Antenna: EMCO 3115									
Project Number: G102114950	Cables: MP1+MP3+E-210+E-207									
Tested By: MTS	Preamp: PAM-0118									
Date: 05/14/2015	Limit: FCC15 Class B-3m									
Frequency Range (MHz): Bandedge	Test Distance (m): 3									
Input power: Battery	Modifications for compliance (y/n): n									
Notes: Continuous transmission										
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	41.5	27.9	6.7	38.9	0.0	37.2	74.0	-36.8	PK/1MHz
H	2390.000	41.5	27.9	6.7	38.9	0.0	37.2	54.0	-16.8	AVG/1MHz
V	2390.000	41.5	27.9	6.7	38.9	0.0	37.2	74.0	-36.8	PK/1MHz
V	2390.000	41.5	27.9	6.7	38.9	0.0	37.2	54.0	-16.8	AVG/1MHz
High channel										
H	2483.500	33.5	28.3	6.8	38.9	0.0	29.7	74.0	-44.3	PK/1MHz
H	2483.500	33.5	28.3	6.8	38.9	0.0	29.7	54.0	-24.3	AVG/1MHz
V	2483.500	34.5	28.3	6.8	38.9	0.0	30.6	74.0	-43.4	PK/1MHz
V	2483.500	34.5	28.3	6.8	38.9	0.0	30.6	54.0	-23.4	AVG/1MHz

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

Note: PK indicates peak detection.

Testing was done with EUT positioned at 0.8m and 1.5 m heights above ground reference plane. The test data presented represents the worst case emissions.

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, 3.7 Vdc
 Pretest Verification w/
 Artifact: BB source

Test Date: 05/14/2015

Limit Applied: See section 10.3

Ambient Temperature: 22.6 °C
 Relative 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 $\text{dB}\mu\text{V}/\text{m}$

RA = Receiver Amplitude (including preamplifier) in $\text{dB}\mu\text{V}$

CF = Cable Attenuation Factor in dB

AF = Antenna Factor in dB

AG = Amplifier Gain in dB

In the 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 $\text{dB}\mu\text{V}$ is obtained. The antenna factor of 7.4 dB and cable factor of 1.6 dB is added. The amplifier gain of 29 dB is subtracted, giving a field strength of 32 $\text{dB}\mu\text{V}/\text{m}$. This value in $\text{dB}\mu\text{V}/\text{m}$ was converted to its corresponding level in $\mu\text{V}/\text{m}$.

$$RA = 52.0 \text{ dB}\mu\text{V}$$

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

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

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

$$FS = 32 \text{ dB}\mu\text{V}/\text{m}$$

To convert from $\text{dB}\mu\text{V}$ to μV or mV the following was used:

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

$$NF = \text{Net Reading in } \text{dB}\mu\text{V}$$

Example:

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

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

11.2 Test Equipment Used:

Asset	Description	Manufacturer	Model	Serial	Cal Date	Cal Due
MP1;	Cable MP1, 18 GHz, N, 394 inches	Megaphase	G919-NK NK-310	MP1	11/14/2014	11/14/2015
213061;	Antenna, Horn, <18 GHz	EMCO	3115	9208-3919	07/22/2014	07/22/2015
200108;	Preamplifier, 20 MHz to 18 GHz, 40 dB	A.H. Systems	PAM-0118	199	12/03/2014	12/03/2015
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	14065201-004	05/07/2015	05/07/2016
E207;	RF Coax Cable	Megaphase	TM18-N1N1-120	14065201-001	05/07/2015	05/07/2016
TT6;	RF Coax Cable. Rated 9KHz to 2 GHz.	Andrews	Cable TT-6	TT6	05/07/2015	05/07/2016
MP3;	Cable MP3, 18 GHz, N, 10m	Megaphase	G919-NK NK-394	MP3	05/07/2015	05/07/2016
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

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 (μv/m at 3 metres)*
30–88	100
88–216	150
216–960	200
Above 960	500

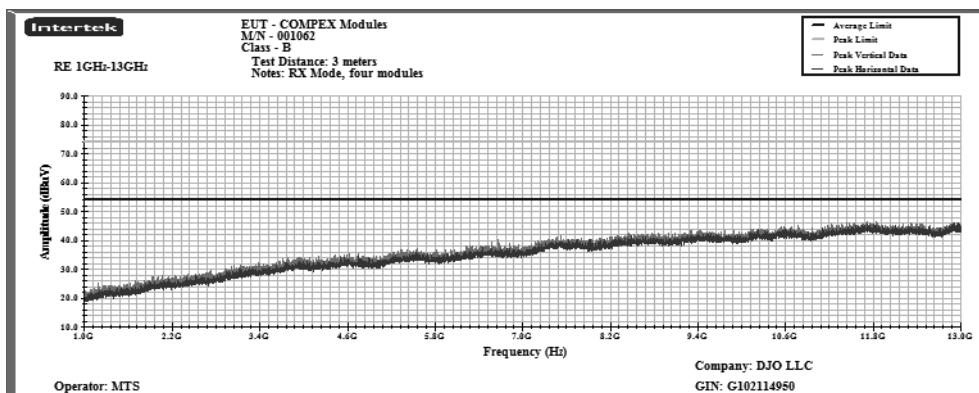
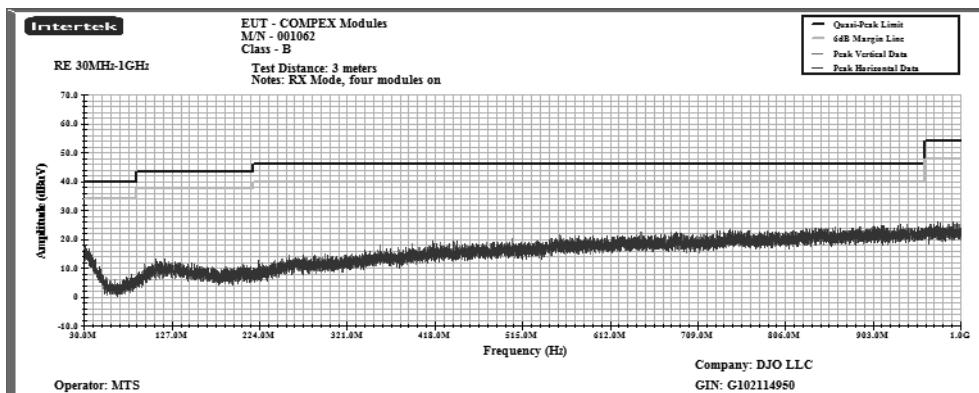
* Measurements for compliance with limits in the above table may be performed at distances other than 3 metres, in accordance with Section 6.5.

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 LLC
Model Number: 001062
Project Number: G102114950
Tested By: MTS
Date: 05/13/2015

Frequency Range (MHz): 30-1000

Input power: Battery

Receiver: R&S ESU40
Antenna: Chase 2622
Cables: TT-6+MP3+E-210+E-207
Preamplifier: ZKL-2 200069

Test Distance (m): 3

Limit: FCC15 Class B-3m

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)	3m Limit dB(uV/m)	Margin dB	Detectors / Bandwidths Det/RBW
H	974.004	32.0	21.0	6.6	40.8	18.8	54.0	-35.2	QP/120kHz
H	977.011	32.0	21.0	6.6	40.8	18.8	54.0	-35.2	QP/120kHz
H	991.367	32.0	21.2	6.7	40.8	19.0	54.0	-35.0	QP/120kHz
H	996.120	31.9	21.2	6.7	40.9	18.9	54.0	-35.1	QP/120kHz
H	987.099	30.8	21.2	6.7	40.8	17.8	54.0	-36.2	QP/120kHz
H	988.554	30.6	21.2	6.7	40.8	17.6	54.0	-36.4	QP/120kHz
Calculations		$G=C+D+E-F$		$I=G-H$					

Test Personnel: Mary Sampson MTS
Supervising/Reviewing
Engineer:
(Where Applicable)
47CFR Part 15 Subpart C:
2015 Section 15.109, RSS-
Gen Issue 4 Nov 2014
Product Standard: Section 7.1.2
Input Voltage: Battery, 3.7 Vdc
Pretest Verification w/
Ambient Signals or
BB Source: BB Source

Test Date: 05/12/2015Limit Applied: See section 7.3Ambient Temperature: 24.2 °CRelative Humidity: 45.7 %Atmospheric Pressure: 988.1 mbars

Deviations, Additions, or Exclusions: None

12 RF Exposure

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

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

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 0.0004 mW (-33.53 dBm). The antenna gain, G is 1.0 dBi.

Therefore, the conducted power (P) is 0.0004 mW.

At 5mm distance the condition for SAR exclusion threshold is

$$0.0004 \times \sqrt{2.403 \div 5} = 0.0001 \text{ which is less than 3.}$$

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	06/22/2015	1020114950ATL-001	MTS MTS	KV	Original Issue