

EMISSIONS TEST REPORT

(FULL COMPLIANCE)

Report Number: 102894565BOX-002 Project Number: G102894565

Report Issue Date: 04/14/2017

Model(s) Tested: CMCT System

Model(s) Partially Tested: None Model(s) Not Tested but declared equivalent by the client: None

Standards: FCC 47CFR Part 15 Subpart C: 03/2017

FCC Part 15 Subpart B: 03/2017

Tested by:
Intertek Testing Services NA, Inc.
70 Codman Hill Road
Boxborough, MA 01719
USA

Client:
Zoll Medical Israel Ltd.
14 Atir Yeda Street
Kfar-Saba 4464313
Israel

Client: Zoll Medical Corporation 121 Gamma Drive Pittsburgh PA 15238 USA

Report prepared by Naga Suryadevara

Report reviewed by Kouma Sinn

Naga Survadevara/EMC Engineer

Kouma Sinn/Staff Engineer, EMC

This report is for the exclusive use of Intertek's Client and is provided pursuant to the agreement between Intertek and its Client. Intertek's responsibility and liability are limited to the terms and conditions of the agreement. Intertek assumes no liability to any party, other than to the Client in accordance with the agreement, for any loss, expense or damage occasioned by the use of this report. Only the Client is authorized to permit copying or distribution of this report and then only in its entirety. Any use of the Intertek name or one of its marks for the sale or advertisement of the tested material, product or service must first be approved in writing by Intertek. The observations and test results in this report are relevant only to the sample tested. This report by itself does not imply that the material, product, or service is or has ever been under an Intertek certification program.

Intertek

Report Number: 102894565BOX-002 Issued: 04/14/2017

Table of Contents

1	Introduction and Conclusion3
2	Test Summary3
3	Client Information4
4	Description of Equipment Under Test and Variant Models4
5	System Setup and Method6
6	Output Power and Human RF Exposure7
7	Occupied and 20dB Bandwidth15
8	Channel Separation
9	Number of Hopping Channels32
10	Average Channel Occupancy Time34
11	Out of Band Conducted Emissions38
12	Radiated Spurious Emissions71
13	Radiated Emissions (Digital Device and Receiver)100
14	AC Mains Conducted Emissions110
15	Revision History117

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. Intertek does not make any claims of compliance for samples or variants which were not tested.

2 Test Summary

Section	Test full name	Result
3	Client Information	
4	Description of Equipment Under Test and Variant Models	
5	System Setup and Method	
6	Output Power and Human RF Exposure (CFR47 FCC Part 15 Subpart C (15.247): 03/2017)	Pass
7	Occupied (99%) and 20 dB Bandwidth (CFR47 FCC Part 15 Subpart C (15.247): 03/2017)	Pass
8	Channel Separation (CFR47 FCC Part 15 Subpart C (15.247): 03/2017)	Pass
9	Number of Hopping Channels (CFR47 FCC Part 15 Subpart C (15.247): 03/2017)	Pass
10	Average Channel Occupancy Time (CFR47 FCC Part 15 Subpart C (15.247): 03/2017)	Pass
11	Out of Band Conducted Emissions (CFR47 FCC Part 15 Subpart C (15.247): 03/2017)	Pass
12	Radiated Spurious Emissions (CFR47 FCC Part 15 Subpart C (15.247): 03/2017)	Pass
13	Radiated Emissions (Digital parts and Receiver) (FCC Part 15 Subpart B: 03/2017)	Pass
14	AC Mains Conducted Emissions (FCC Part 15 Subpart B: 03/2017)	Pass
15	Revision History	

3 Client Information

This EUT was tested at the request of:

Client: Zoll Medical Israel Ltd.

> 14 Atir Yeda Street Kfar-Saba 4464313

Israel

Contact: Moshik Mosesko Telephone: +972 9 9603900

Fax: None

Email: moshik@zoll.com

Description of Equipment Under Test and Variant Models

Manufacturer: Zoll Medical Israel Ltd.

> 14 Atir Yeda Street Kfar-Saba 4464313

Israel.

Equipment Under Test				
Description	Manufacturer	Model Number	Serial Number	
CMCT sensor	ZOLL	UA5210	D5-61710-000C	
CMCT sensor with cable for Bluetooth communication	ZOLL	UA5210	D5-61710-0007	
CMCT open sensor on the Evaluation board with cable antenna	ZOLL	UA5210	N/A	
Charger	ZOLL	UA5250	C5-61710-0011	
Gateway based on cellular phone XT1505	ZOLL	UA5260	G5-61710-0011	
Gateway based on cellular phone XT1527	ZOLL	UA5260	G5-61710-0012	

Receive Date:	03/20/2017
Received Condition:	Good
Type:	Production

Description of Equipment Under Test (provided by client)

The CMCT System is intended to continuously record, store, and transmit ECG, Heart Rate, Activity, and Posture to medical professionals. The CMCT System also periodically records, stores, and transmits Respiration Rate and Thoracic Impedance to medical professionals. The CMCT System is intended for up to 30 days of monitoring. During the prescription period, the Sensor will automatically acquire clinical measurements. Data acquired by the body-worn Sensor will be transmitted wirelessly to the data transmission device, which will then be forwarded to the remote Server for data analysis, and subsequently to the Monitoring Center for review and report generation.

Note: Manufacturer has declared that the CMCT System is a part of the uCor3.0 family.

Non-Specific Radio Report Shell Rev. August 2015 Page 4 of 117

Intertek

Report Number: 102894565BOX-002 Issued: 04/14/2017

Equipment Under Test Power Configuration					
Rated Voltage	Rated Frequency	Number of Phases			
100-240VAC (I/P to Power Supply)	0.8 Amps	50/60 Hz	Single		
Internal Battery Li-Pol 3.7V	1050 mA	N/A	N/A		

Operating modes of the EUT:

No.	Descriptions of EUT Exercising	
1	Transmit mode – operating on internal battery	
2	2 Receive mode – operating on internal battery	
3	3 Transmit mode – Charging	
4	Receive mode – Charging	

Software used by the EUT:

Sensor:

	choor.		
No.	Descriptions of EUT Exercising		
1	Microcontroller version: 1.1.0		
2	FPGA version: 3.0		
3	BT version: 6		
4	Fuel Gauge Version: 09062016		

Gateway (cellular phone):

No.	Descriptions of EUT Exercising
1	Access point: 1.3

Server:

No.	Descriptions of EUT Exercising
1	ServerApp: 2.0.0.5

Radio/Receiver Characteristics				
Frequency Band(s)	2402 – 2480 MHz			
Modulation Type(s)	π/4 DQPSK(low baud rate) and 8DPSK(high baud rate)			
Data rates	Data Rate type(low baud rate) – Basic (DH3)			
	Data Rate type(high baud rate) – EDR (3-DH5)			
Maximum Output Power	3.5237087104 mW			
Test Channels	Channel low - 2402 MHz			
	Channel middle - 2441 MHz			
	Channel high - 2480 MHz			
Occupied Bandwidth	OBW – 1.21 MHz			
	20dB BW – 1.3 MHz			
Frequency Hopper: Number of Hopping				
Channels	79			
Frequency Hopper: Channel Dwell Time	0.288 seconds			
MIMO Information (# of Transmit and	N/A			
Receive antenna ports)				
Equipment Type	Bluetooth single chip radio based on CSRB5342			
ETSI LBT/Adaptivity	N/A			

ETSI Adaptivity Type	N/A
ETSI Temperature Category (I, II, III)	N/A
ETSI Receiver Category (1, 2, 3)	N/A
Antenna Type and Gain	PCB Inverted F antenna, 5dBi

Variant Models:

The following variant models were not tested as part of this evaluation, but have been identified by the manufacturer as being electrically identical models, depopulated models, or with reasonable similarity to the model(s) tested. Intertek does not make any claims of compliance for samples or variants which were not tested.

None

5 System Setup and Method

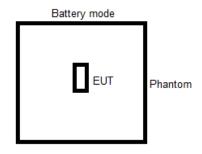
	Cables				
ID	Description	Length (m)	Shielding	Ferrites	Termination
1	Power Cable	2	None	None	AC Mains

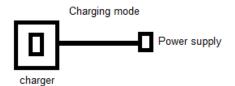
Support Equipment				
Description	Manufacturer	Model Number	Serial Number	
Laptop Dell		Latitude E7450	D48ZG72	
Phantom+Patch Zoll		Patch PT0203-01 Phantom JIG0021	None	

5.1 Method:

Configuration as required by FCC Part 15 Subpart C: 03/2017, FCC Part 15 Subpart B: 03/2017, ANSI C 63.10 and ANSI C 63.4.

5.2 EUT Block Diagram:





6 **Output Power and Human RF Exposure**

6.1 Method

Tests are performed in accordance with FCC Part 15 Subpart C (15.247).

TEST SITE: EMC Lab

<u>The EMC Lab</u> 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.

6.2 Test Equipment Used:

Asset	Description	Manufacturer	Model	Serial	Cal Date	Cal Due
DAV004'	Weather Station	Davis Instruments	7400	PE80529A61A	05/02/2016	05/02/2017
CBLSHF203	Cable, SMA - SMA, 9kHz-40GHz, Cable Kit 4	Sucoflex (Huber Suhn	104PE	CBLSHF203	09/08/2016	09/08/2017
ROS005'	ETSI Test System	Rhode & Schwartz	TS8997	N/A	09/15/2016	09/15/2017

Software Utilized:

Name	Manufacturer	Version
None		

6.3 Results:

The sample tested was found to Comply. For systems operating in the 2400-2483.5 MHz band employing at least 75 hopping channels, the maximum peak output power is 1 watt (30 dBm), for all other systems 0.125 W (21 dBm).

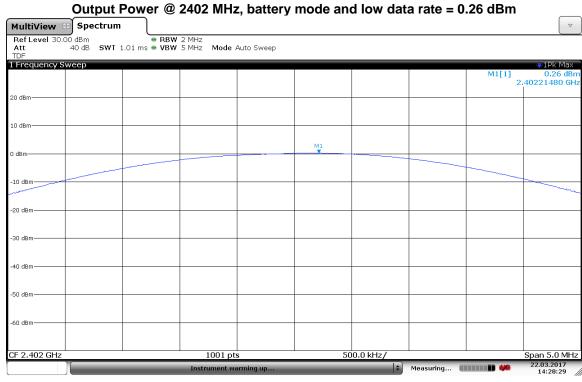
Device has 79 hopping channels

Frequency	Mode of operation	Data Rate	Output Power in dBm	Output Power in mW	Limit
2402	Charging	Low	0.49	1.1194378835	1 W
2402	Charging	High	-2.67	0.54075432295	1 W
2402	Potton/	Low	0.26	1.0616955572	1 W
2402	Battery	High	-2.65	0.54325033149	1 W
2441	Charging	Low	4.53	2.8379190284	1 W
2441	Charging	High	2.07	1.6106456352	1 W
2441	Potton/	Low	4.59	2.8773984147	1 W
2441	Battery	High	2.19	1.6557699635	1 W
2480	Charging	Low	5.47	3.5237087104	1 W
2480	Charging	High	2.95	1.9724227361	1 W
2480	Potton/	Low	5.40	3.4673685045	1 W
2480	Battery	High	2.95	1.9724227361	1 W

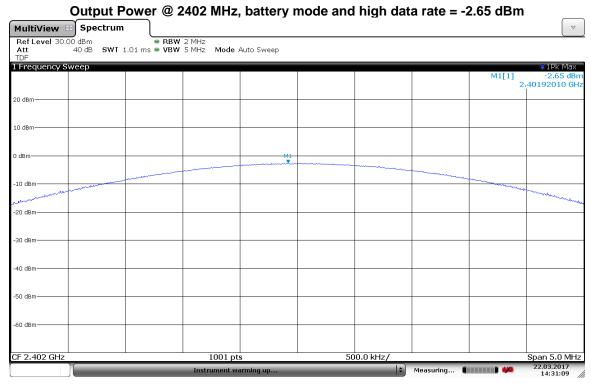
Note: Devices antenna gain is less than 6 dBi.

Non-Specific Radio Report Shell Rev. August 2015 Page 7 of 117

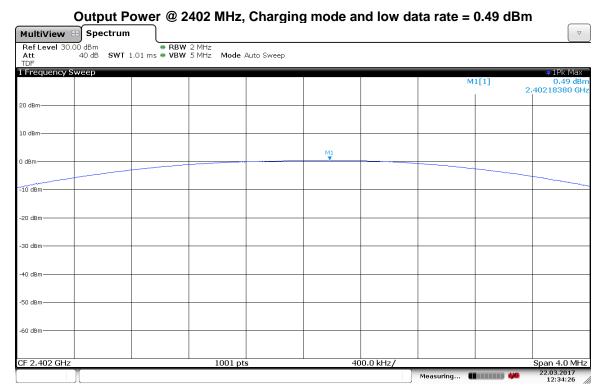
6.4 Plots/Data:



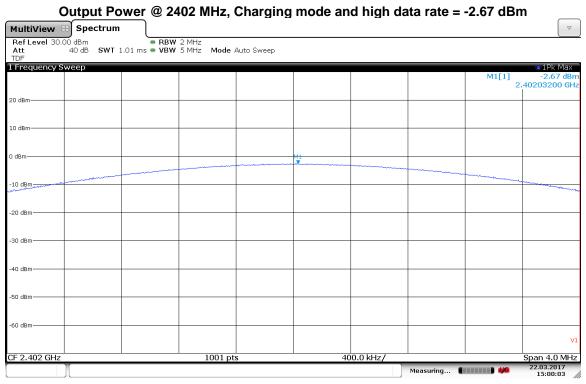




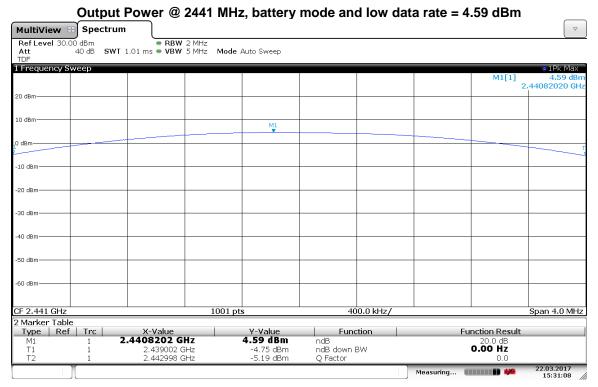
Date: 22.MAR.2017 14:31:09



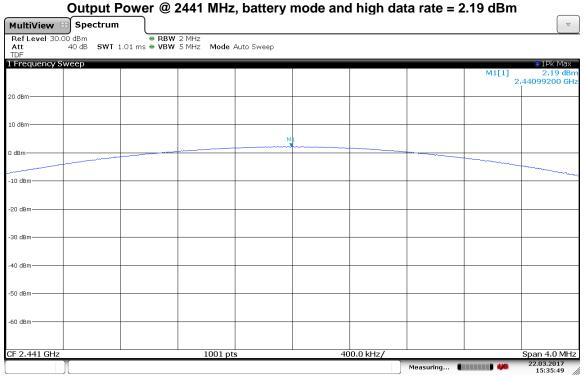
Date: 22.MAR.2017 12:34:26



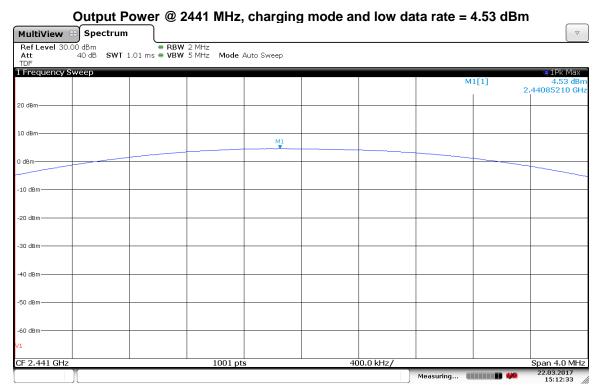
Date: 22.MAR.2017 15:00:03



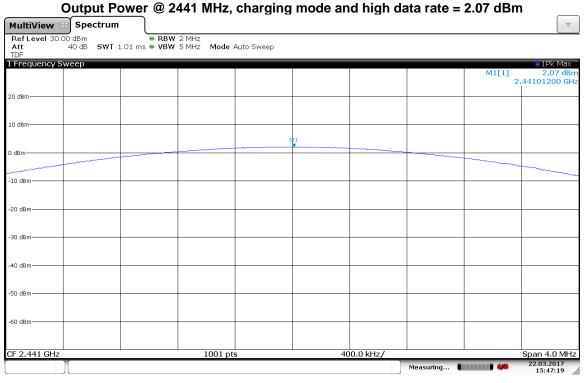
Date: 22.MAR.2017 15:31:07



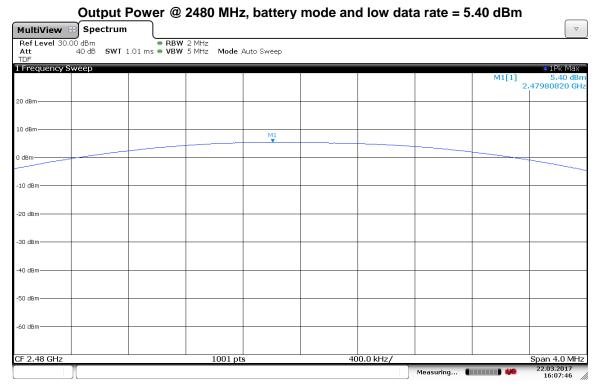
Date: 22.MAR.2017 15:35:48



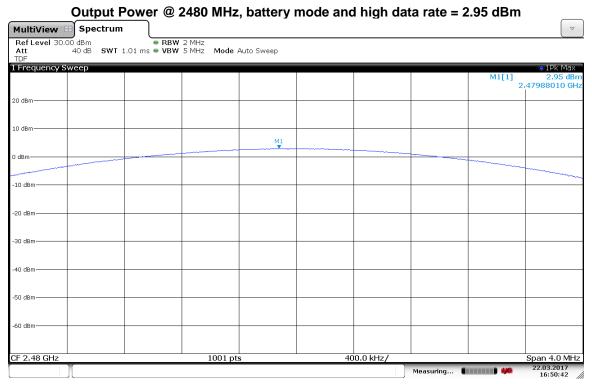
Date: 22.MAR.2017 15:12:33



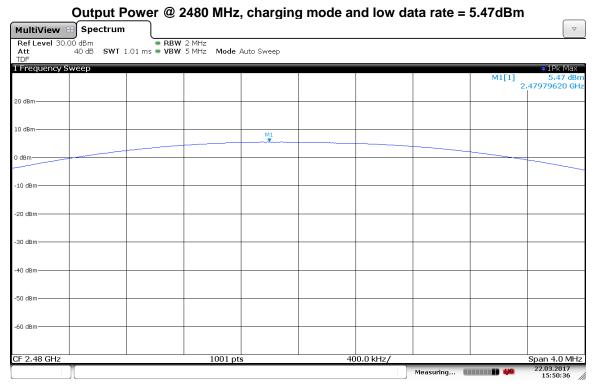
Date: 22.MAR.2017 15:47:19



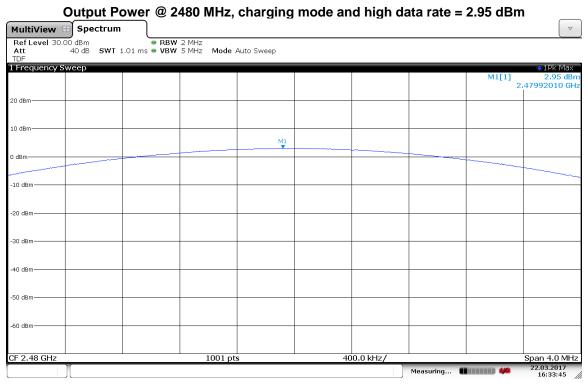
Date: 22.MAR.2017 16:07:46



Date: 22.MAR.2017 16:50:41



Date: 22.MAR.2017 15:50:35



Date: 22.MAR.2017 16:33:46

Human RF Exposure/SAR Exemption

Maximum measured output power is 3.5237087104 mW @ 2480 MHz

FCC SAR Exemption per KDB 447498

a) For 100 MHz to 6 GHz and test separation distances ≤ 50 mm, the 1-g and 10-g SAR test exclusion thresholds are determined by the following:

[(max. power of channel, including tune-up tolerance, mW) / (min. test separation distance, mm)] $\cdot [\sqrt{f_{\text{(GHz)}}}] \le 3.0 \text{ for } 1\text{-g SAR, and } \le 7.5 \text{ for } 10\text{-g extremity SAR,}^{30} \text{ where}$

· f(GHz) is the RF channel transmit frequency in GHz

= (3.523/5)*(sqrt(2.48))

= 1.09 < 3.0 (below the limit, SAR Exempt per FCC)

Test Personnel:	Naga Suryadevara N.5	Test Date:	03/22/2017
Supervising/Reviewing Engineer:			
(Where Applicable)	N/A		
Product Standard:	FCC Part 15 Subpart C (15.247) 120VAC 60Hz, Internal Battery	Limit Applied:	See section 6.3
iliput voltage.	120VAC 60Hz, IIIleIIIai Ballery		
Pretest Verification w/		Ambient Temperature:	20 °C
Ambient Signals or BB Source:	Yes – Signal generator	Relative Humidity:	16 %
		Atmospheric Pressure:	1007 mbars

Deviations, Additions, or Exclusions: None

7 Occupied and 20dB Bandwidth

7.1 Method

Tests are performed in accordance with FCC Part 15 Subpart C (15.247).

TEST SITE: EMC Lab

<u>The EMC Lab</u> 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.

7.2 Test Equipment Used:

Asset	Description	Manufacturer	Model	Serial	Cal Date	Cal Due
DAV004'	Weather Station	Davis Instruments	7400	PE80529A61A	05/02/2016	05/02/2017
CBLSHF203'	Cable, SMA - SMA, 9kHz-40GHz, Cable Kit 4	Sucoflex (Huber Suhn	104PE	CBLSHF203	09/08/2016	09/08/2017
ROS005'	ETSI Test System	Rhode & Schwartz	TS8997	N/A	09/15/2016	09/15/2017

Software Utilized:

Name	Manufacturer	Version
None		

7.3 Results:

The sample tested was found to Comply.

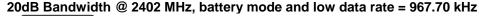
Frequency	Mode of operation	Data Rate	Occupied Bandwidth	20dB Bandwidth
2402	Charging	Low	894.10 kHz	964.00 kHz
2402	Charging	High	1.21 MHz	1.29 MHz
2402	Potton/	Low	887.11 kHz	967.70 kHz
2402	Battery	High	1.18 MHz	1.30 MHz
2441	Charaina	Low	903.09 kHz	959.00 kHz
2441	Charging	High	1.21 MHz	1.29 MHz
2441	Potton/	Low	895.10 kHz	963.00 kHz
2441	Battery	High	1.19 MHz	1.29 MHz
2480	Charaina	Low	891.10 kHz	959.0 kHz
2480	Charging	High	1.21 MHz	1.29 MHz
2480	Dotton/	Low	883.11 kHz	987.00 kHz
2480	Battery	High	1.21 MHz	1.29 MHz

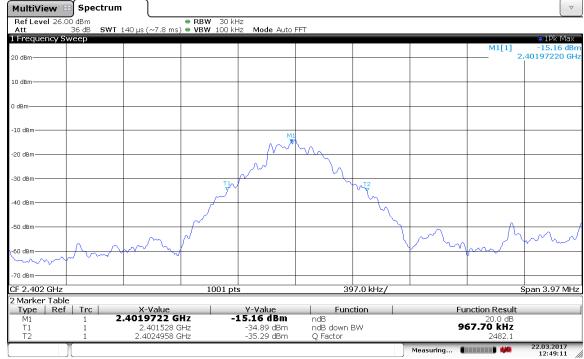
7.4 Plots/Data:



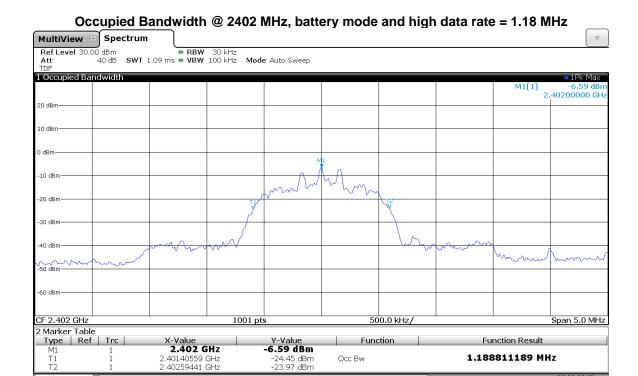


Date: 22.MAR.2017 12:46:41

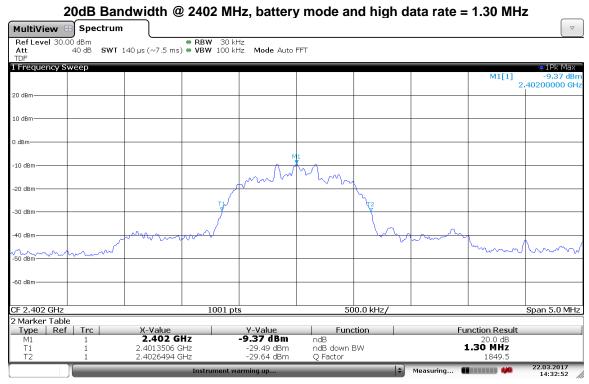




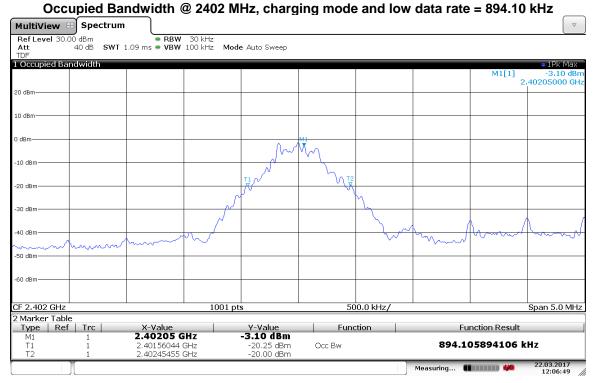
Date: 22.MAR.2017 12:49:11



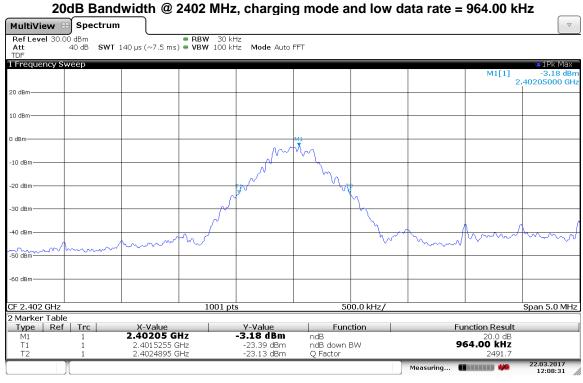
Date: 22.MAR.2017 14:32:03



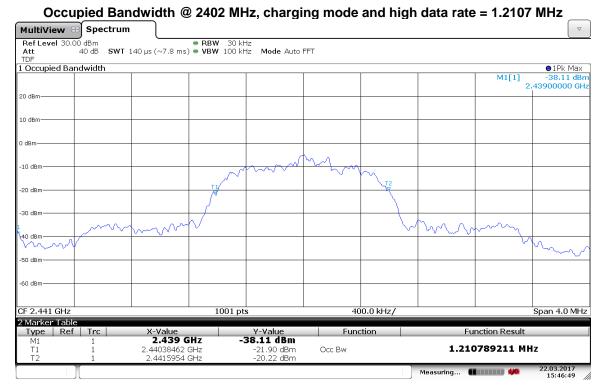
Date: 22.MAR.2017 14:32:53



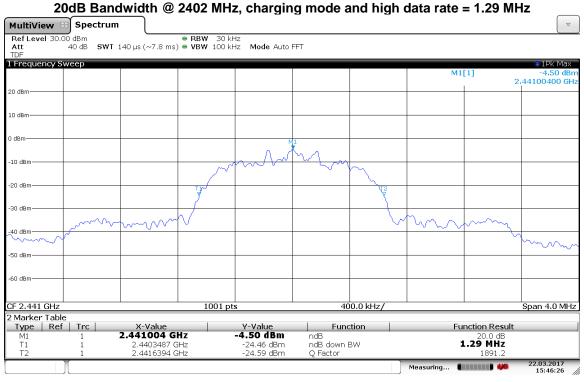
Date: 22.MAR.2017 12:06:48



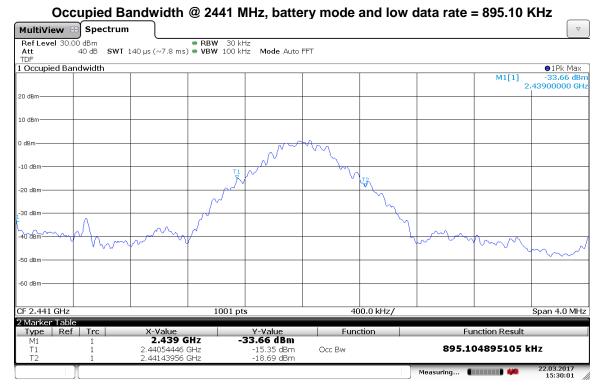
Date: 22.MAR.2017 12:08:32



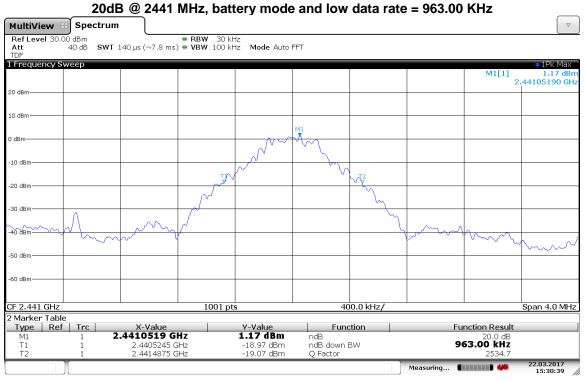
Date: 22.MAR.2017 15:46:48



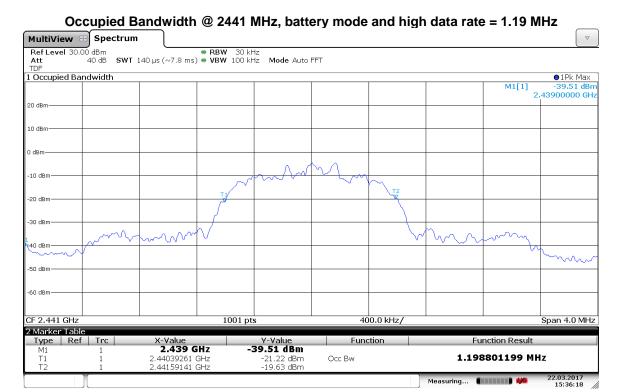
Date: 22.MAR.2017 15:46:26



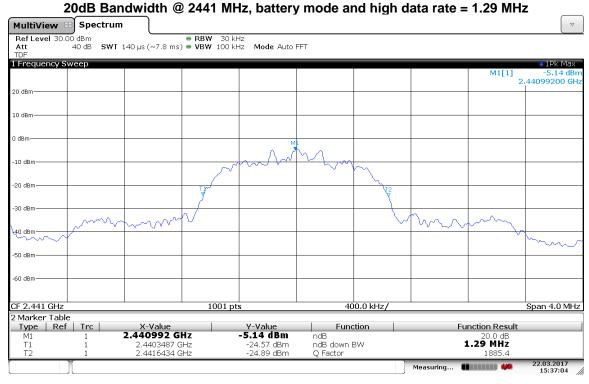
Date: 22.MAR.2017 15:30:00



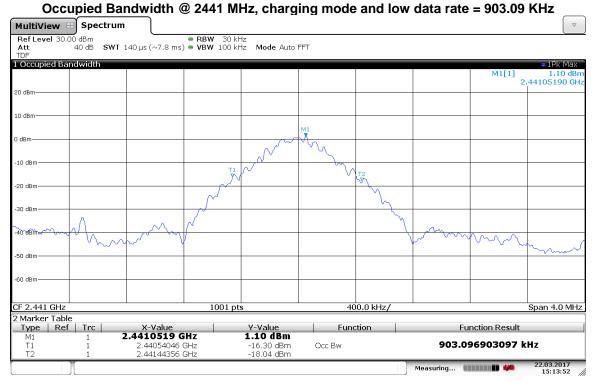
Date: 22.MAR.2017 15:30:39



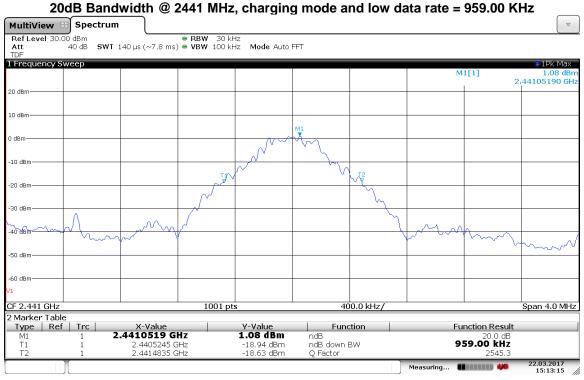
Date: 22.MAR.2017 15:36:18



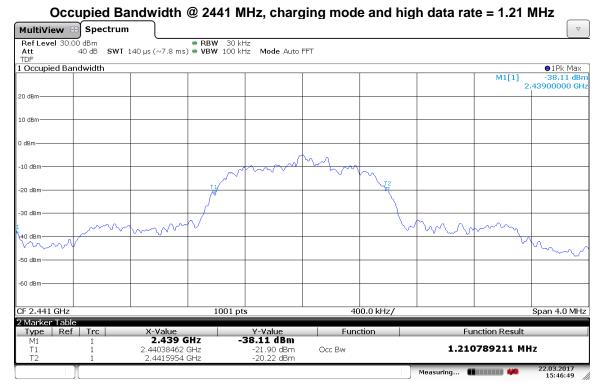
Date: 22.MAR.2017 15:37:04



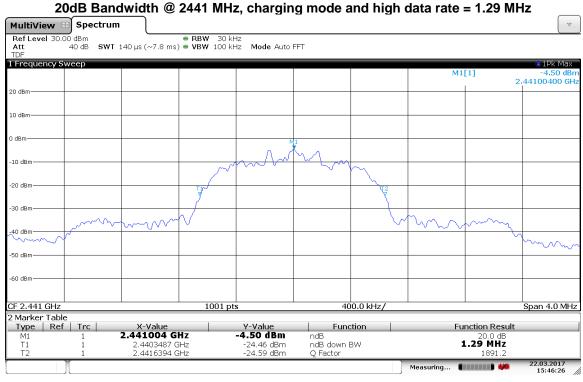
Date: 22.MAR.2017 15:13:52



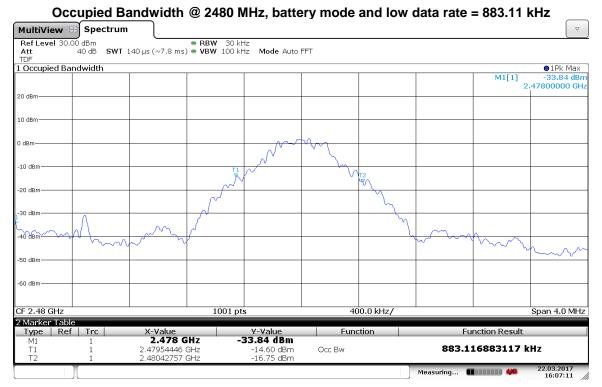
Date: 22.MAR.2017 15:13:14



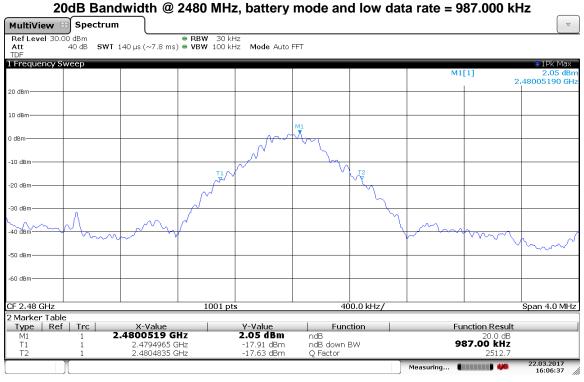
Date: 22.MAR.2017 15:46:48



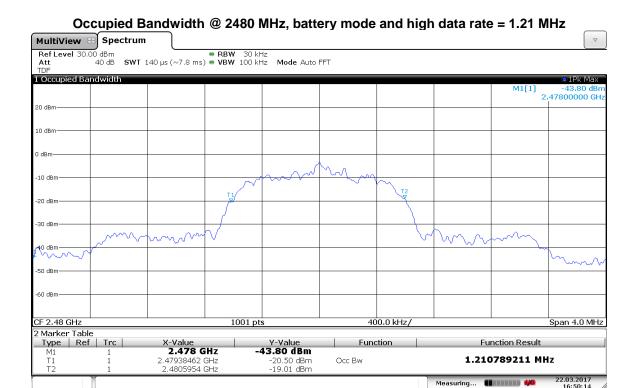
Date: 22.MAR.2017 15:46:26



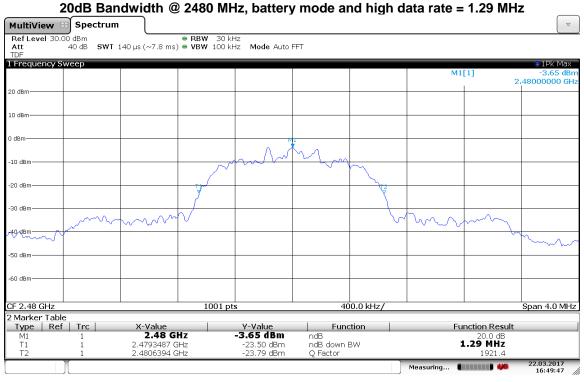
Date: 22.MAR.2017 16:07:11



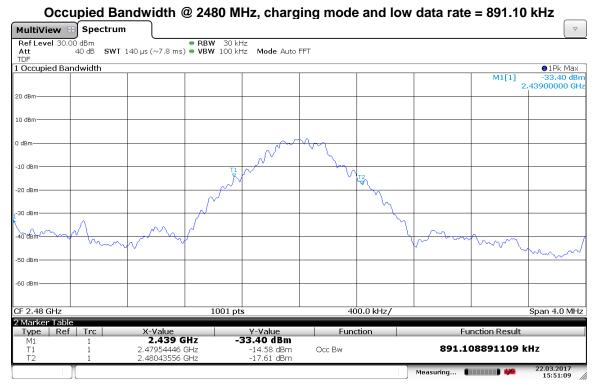
Date: 22.MAR.2017 16:06:37



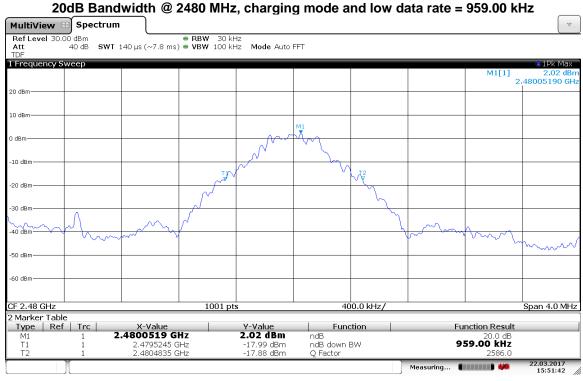
Date: 22.MAR.2017 16:50:14



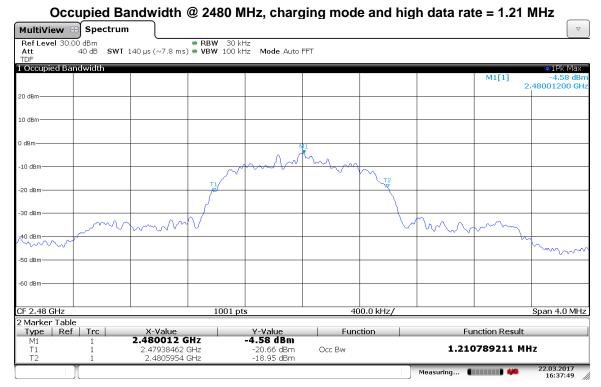
Date: 22.MAR.2017 16:49:46



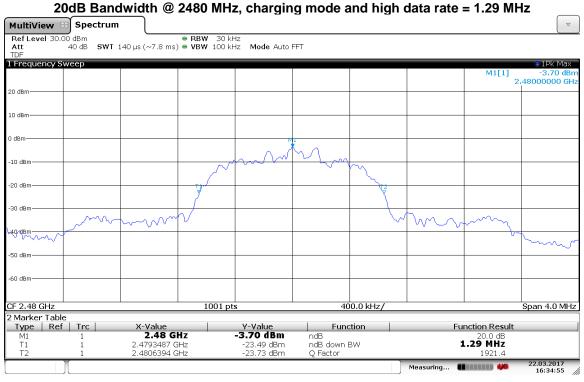
Date: 22.MAR.2017 15:51:09



Date: 22.MAR.2017 15:51:41



Date: 22.MAR.2017 16:37:49



Date: 22.MAR.2017 16:34:55

Intertek

Report Number: 102894565BOX-002 Issued: 04/14/2017

Test Personnel: Naga Suryadevara N·5 Test Date: 03/22/2017

Supervising/Reviewing Engineer: (Where Applicable) Product Standard: Input Voltage: 120VAC 60Hz, Internal Battery

Pretest Verification w/ Ambient Signals or BB Source: Yes – Signal generator

Test Date: 03/22/2017

Limit Applied: See section 7.3

Ambient Temperature: 20 °C

Relative Humidity: 16 %

Atmospheric Pressure: 1007 mbars

8 Channel Separation

8.1 Method

Tests are performed in accordance with FCC Part 15 Subpart C (15.247).

TEST SITE: EMC Lab

<u>The EMC Lab</u> 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
	DAV004'	Weather Station	Davis Instruments	7400	PE80529A61A	05/02/2016	05/02/2017
	CBLSHF203'	Cable, SMA - SMA, 9kHz-40GHz, Cable Kit 4	Sucoflex (Huber Suhn	104PE	CBLSHF203	09/08/2016	09/08/2017
	ROS005'	ETSI Test System	Rhode & Schwartz	TS8997	N/A	09/15/2016	09/15/2017

Software Utilized:

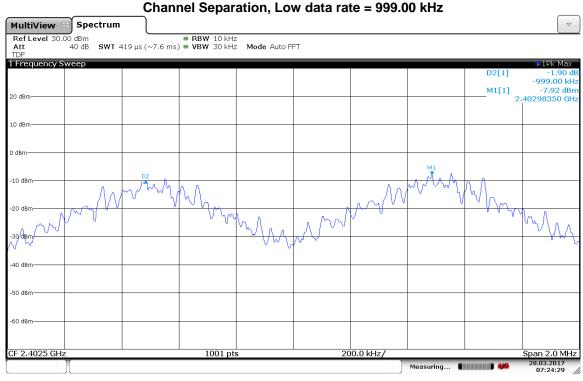
Name	Manufacturer	Version
None		

8.3 Results:

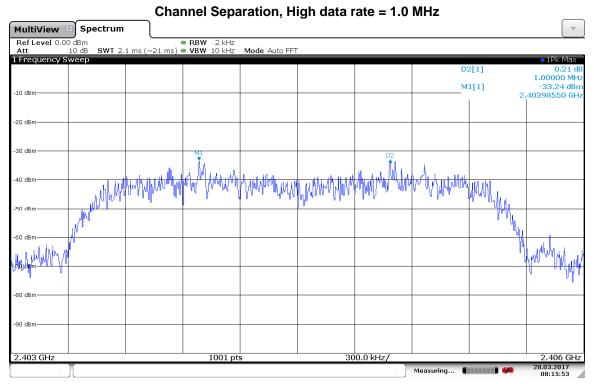
The sample tested was found to Comply. Systems shall have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20-dB bandwidth of the hopping channel, whichever is greater.

The measured channel frequency separation is 999 kHz @ low data rate and 1.0 MHz @ high data rate which is greater than 866.66 kHz (2/3rd of 20dB BW(maximum))

8.4 Plots/Data:



Date: 28.MAR.2017 07:24:29



Date: 28.MAR.2017 08:15:53

Intertek

Report Number: 102894565BOX-002 Issued: 04/14/2017

Test Personnel:	Naga Suryadevara N 5	Test Date:	03/28/2017
Supervising/Reviewing			
Engineer:			
(Where Applicable)	N/A		
Product Standard:	FCC Part 15 Subpart C (15.247)	Limit Applied:	See section 8.3
Input Voltage:	120VAC 60Hz, Internal Battery		
Pretest Verification w/		Ambient Temperature:	20 °C
Ambient Signals or			
BB Source:	Yes – Signal generator	Relative Humidity:	17 %
		Atmospheric Pressure:	1003 mbars

9 Number of Hopping Channels

9.1 Method

Tests are performed in accordance with FCC Part 15 Subpart C (15.247).

TEST SITE: EMC Lab

<u>The EMC Lab</u> 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.

9.2 Test Equipment Used:

	Asset	Description	Manufacturer	Model	Serial	Cal Date	Cal Due
	DAV004'	Weather Station	Davis Instruments	7400	PE80529A61A	05/02/2016	05/02/2017
	CBLSHF203'	Cable, SMA - SMA, 9kHz-40GHz, Cable Kit 4	Sucoflex (Huber Suhn	104PE	CBLSHF203	09/08/2016	09/08/2017
	ROS005'	ETSI Test System	Rhode & Schwartz	TS8997	N/A	09/15/2016	09/15/2017

Software Utilized:

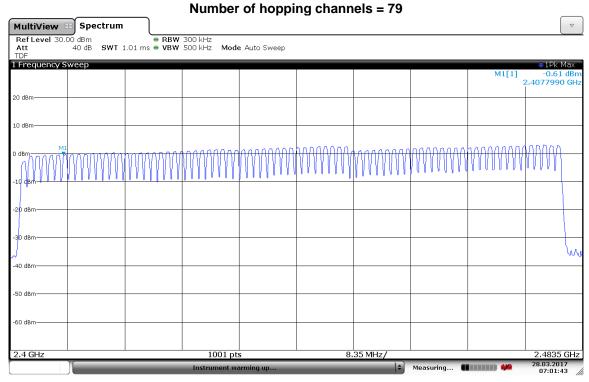
Name	Manufacturer	Version
None		

9.3 Results:

The sample tested was found to Comply. Systems operating in the 2400-2483.5 MHz band shall use at least 15 hopping channels.

The sample has 79 hopping channels.

9.4 Plots/Data:



Date: 28.MAR.2017 07:01:43

Test Personnel: Supervising/Reviewing Engineer: (Where Applicable)	Naga Suryadevara N D	Test Date:	03/28/2017
	FCC Part 15 Subpart C (15.247) 120VAC 60Hz, Internal Battery	Limit Applied:	See section 9.3
Pretest Verification w/		Ambient Temperature:	20 °C
Ambient Signals or BB Source:	Yes – Signal generator	Relative Humidity:	17 %
		Atmospheric Pressure:	1003 mbars

10 Average Channel Occupancy Time

10.1 Method

Tests are performed in accordance with FCC Part 15 Subpart C (15.247).

TEST SITE: EMC Lab

<u>The EMC Lab</u> 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.

10.2 Test Equipment Used:

Asset	Description	Manufacturer	Model	Serial	Cal Date	Cal Due
DAV004'	Weather Station	Davis Instruments	7400	PE80529A61A	05/02/2016	05/02/2017
CBLSHF203'	Cable, SMA - SMA, 9kHz-40GHz, Cable Kit 4	Sucoflex (Huber Suhn	104PE	CBLSHF203	09/08/2016	09/08/2017
ROS005'	ETSI Test System	Rhode & Schwartz	TS8997	N/A	09/15/2016	09/15/2017

Software Utilized:

Name	Manufacturer	Version
None		

10.3 Results:

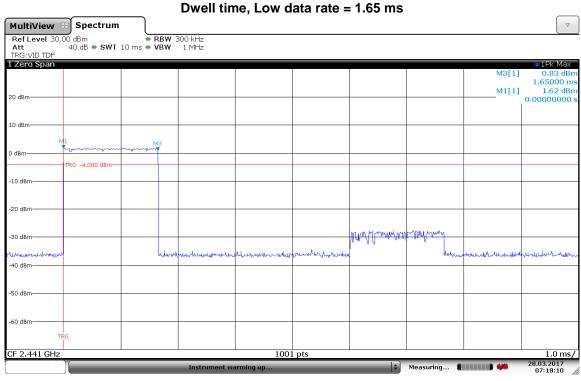
The sample tested was found to Comply. For systems operating in the 2400-2483.5 MHz band, the average time of occupancy on any channel shall not be greater than 0.4 second within a period of 0.4 second multiplied by the number of hopping channels employed

Since the radio employs 79 channels, Occupancy time was calculated during the period of 0.4 * 79 = 31.6 sec.

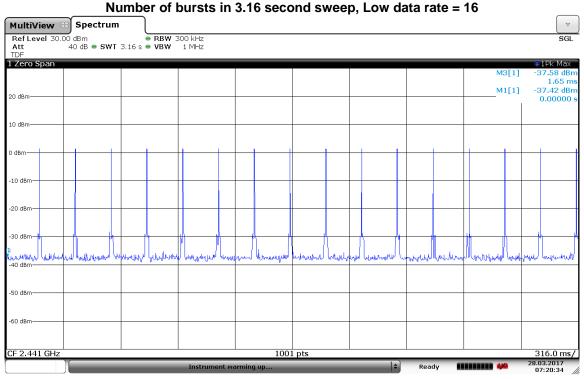
Occupancy Time @ low data rate = 0.00165 * 16 *10 = 0.264 sec

Occupancy Time @ high data rate = 0.00288 * 10 *10 = 0.288 sec

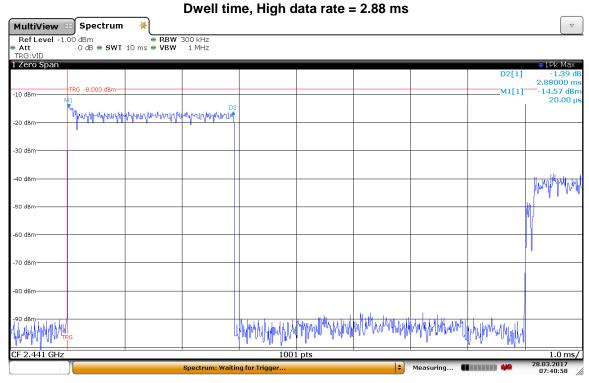
10.4 Plots/Data:



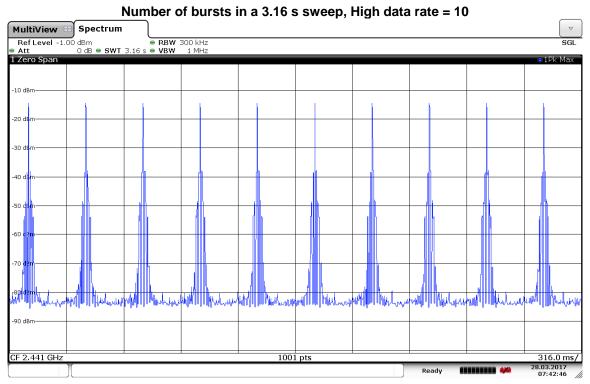
Date: 28.MAR.2017 07:18:10



Date: 28.MAR.2017 07:20:34



Date: 28.MAR.2017 07:40:58



Date: 28.MAR.2017 07:42:46

Intertek

Report Number: 102894565BOX-002 Issued: 04/14/2017

Test Personnel: Naga Suryadevara N·5 Test Date: 03/28/2017

Supervising/Reviewing Engineer: (Where Applicable) Product Standard: FCC Part 15 Subpart C (15.247) Input Voltage: 120VAC 60Hz, Internal Battery

Pretest Verification w/ Ambient Signals or BB Source: Yes – Signal generator

Test Date: 03/28/2017

Limit Applied: See section 10.3

Ambient Temperature: 20 °C

Relative Humidity: 17 %

Atmospheric Pressure: 1003 mbars

Non-Specific Radio Report Shell Rev. August 2015 Company: Zoll Medical Israel Ltd. Model: CMCT System Report Number: 102894565BOX-002 Issued: 04/14/2017

11 Out of Band Conducted Emissions

11.1 Method

Tests are performed in accordance with FCC Part 15 Subpart C (15.247) and RSS 247.

TEST SITE: EMC Lab

<u>The EMC Lab</u> 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.

11.2 Test Equipment Used:

	Asset	Description	Manufacturer	Model	Serial	Cal Date	Cal Due
	DAV004'	Weather Station	Davis Instruments	7400	PE80529A61A	05/02/2016	05/02/2017
	CBLSHF203'	Cable, SMA - SMA, 9kHz-40GHz, Cable Kit 4	Sucoflex (Huber Suhn	104PE	CBLSHF203	09/08/2016	09/08/2017
	ROS005'	ETSI Test System	Rhode & Schwartz	TS8997	N/A	09/15/2016	09/15/2017

Software Utilized:

Name	Manufacturer	Version
None		

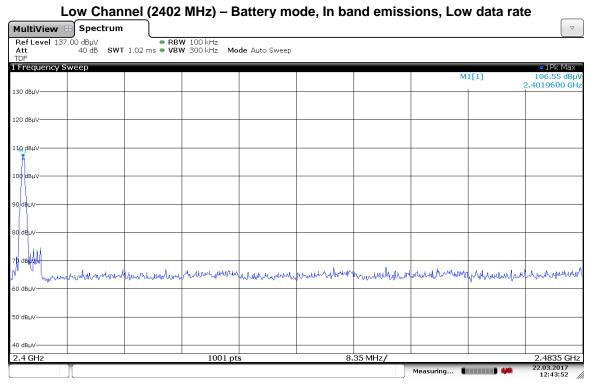
11.3 Results:

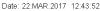
The sample tested was found to Comply. In any 100 kHz bandwidth outside the EUT pass-band, the RF power shall be at least 20 dB below that of the maximum in-band 100 kHz emission.

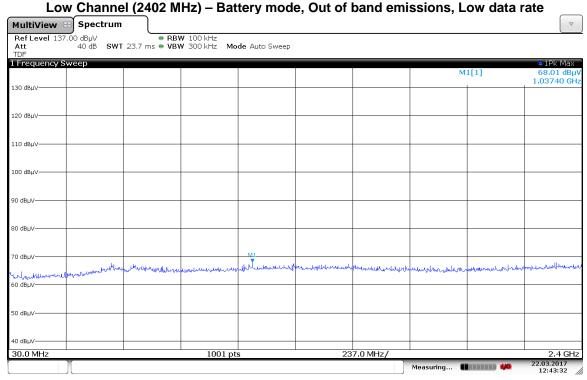
All emissions measured were 20 dB below fundamental as indicated in the plots in sections 11.4.

Non-Specific Radio Report Shell Rev. August 2015 Company: Zoll Medical Israel Ltd. Model: CMCT System Report Number: 102894565BOX-002 Issued: 04/14/2017

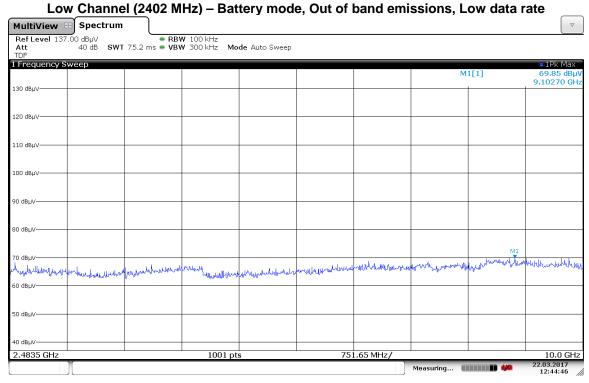
11.4 Plots/Data:



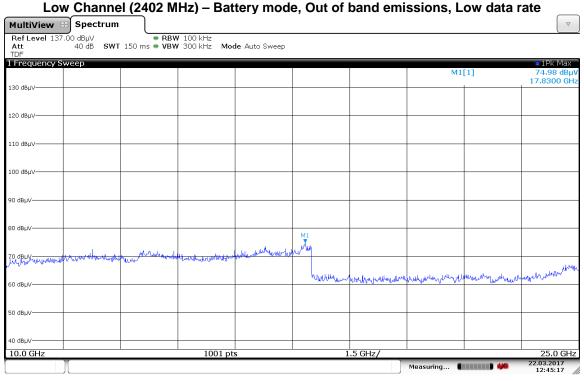




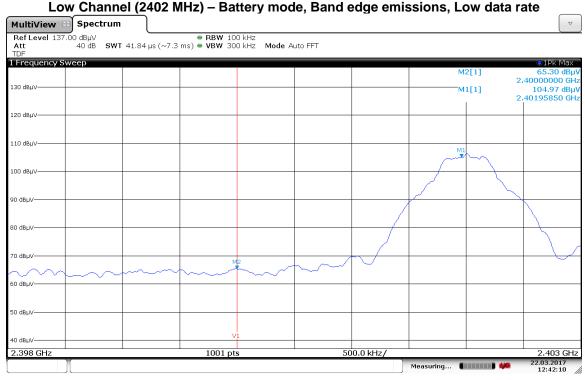
Date: 22.MAR.2017 12:43:31



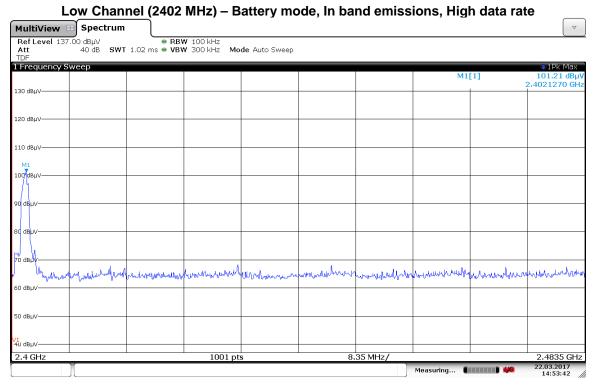
Date: 22.MAR.2017 12:44:45



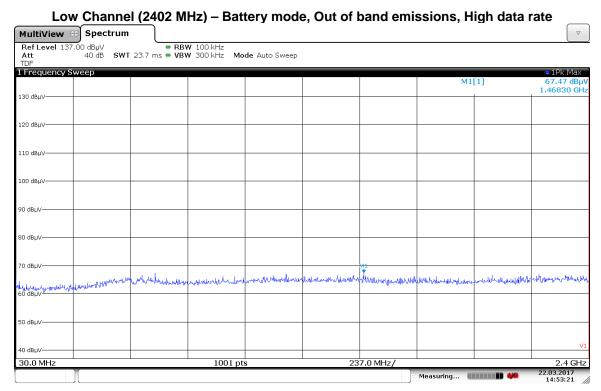
Date: 22.MAR.2017 12:45:17



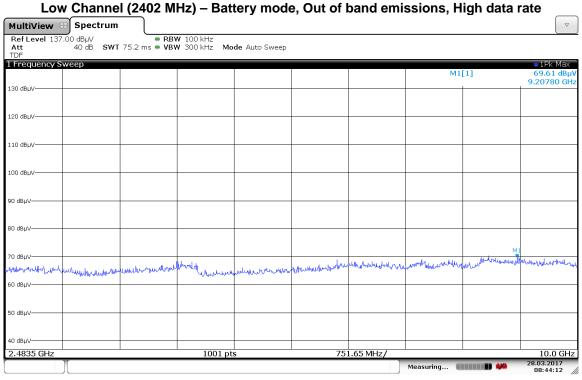
Date: 22.MAR.2017 12:42:10



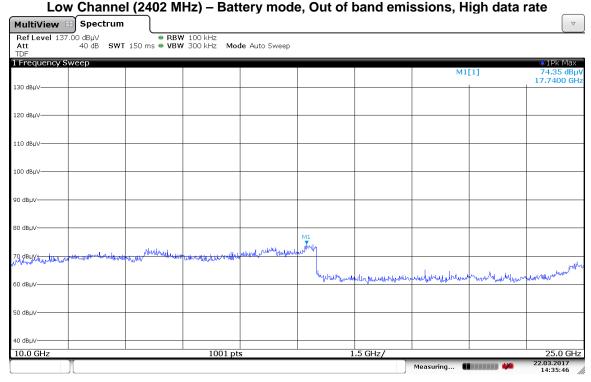
Date: 22.MAR.2017 14:53:42



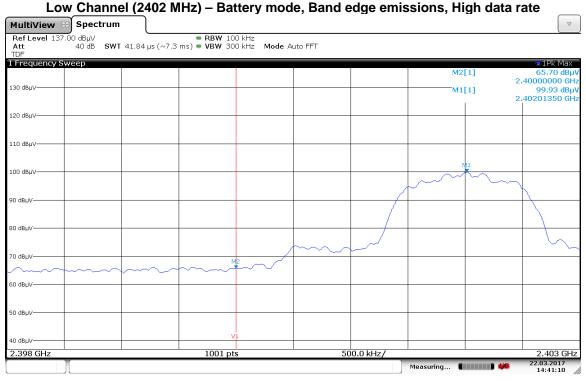
Date: 22.MAR.2017 14:53:21



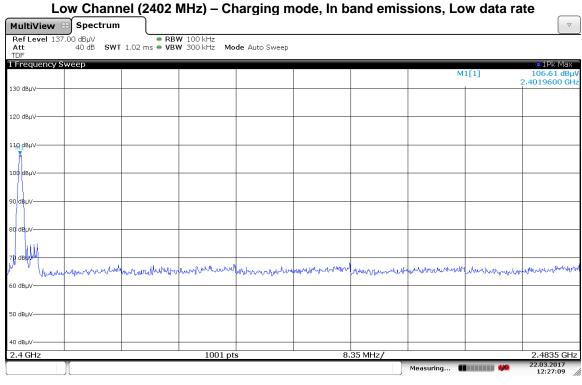
Date: 28.MAR.2017 08:44:12

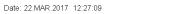


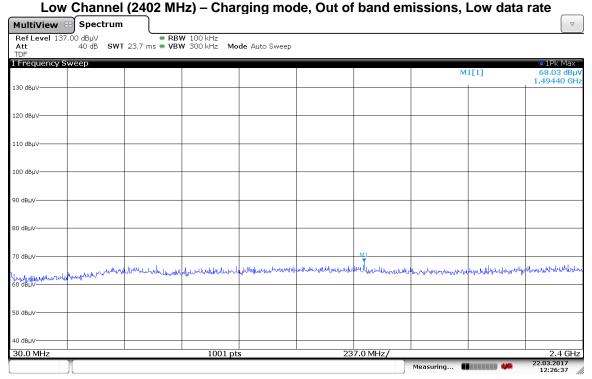
Date: 22.MAR.2017 14:35:45



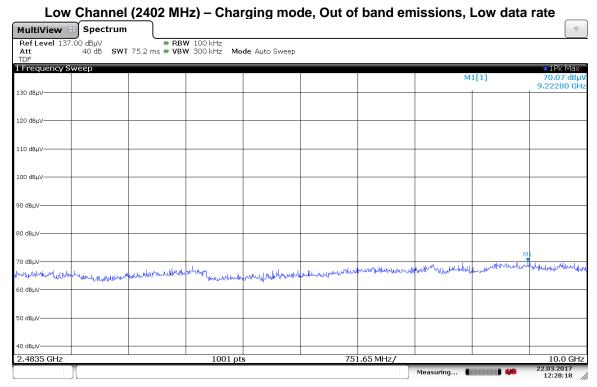
Date: 22.MAR.2017 14:41:10



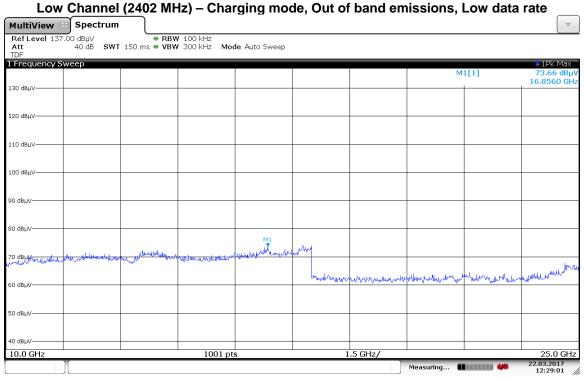




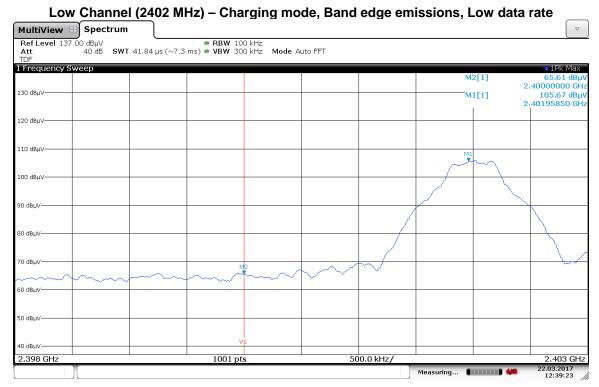
Date: 22.MAR.2017 12:26:36



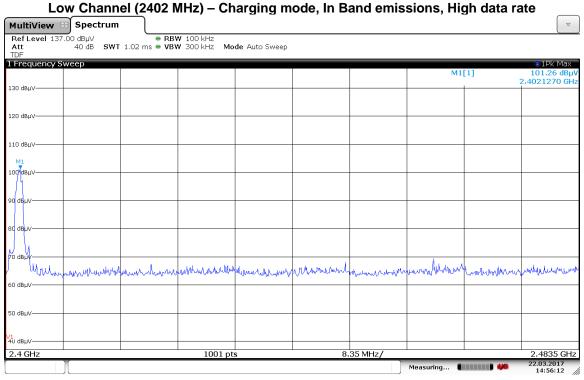
Date: 22.MAR.2017 12:28:18



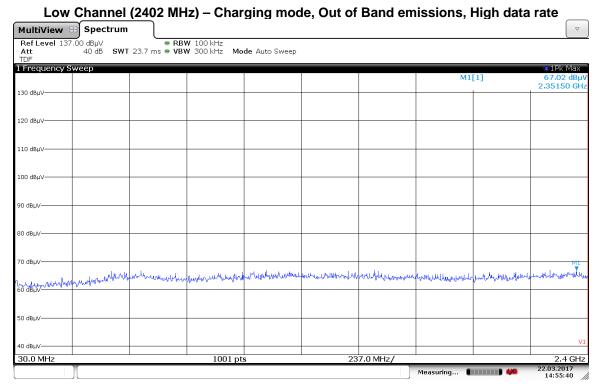
Date: 22.MAR.2017 12:29:00



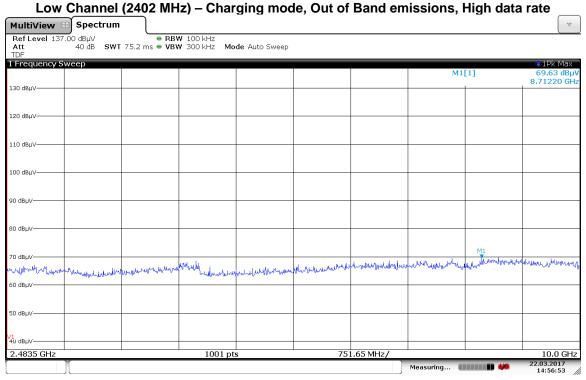
Date: 22.MAR.2017 12:39:23



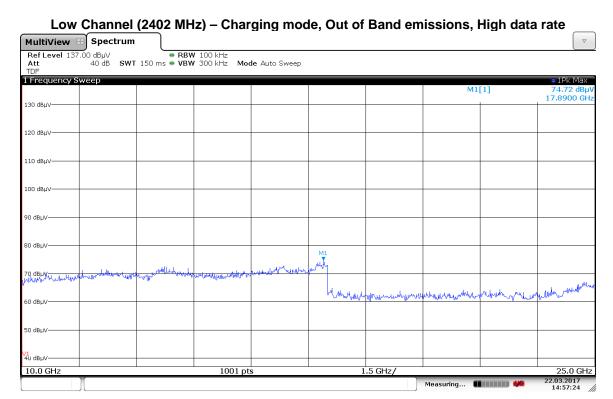
Date: 22.MAR.2017 14:56:11



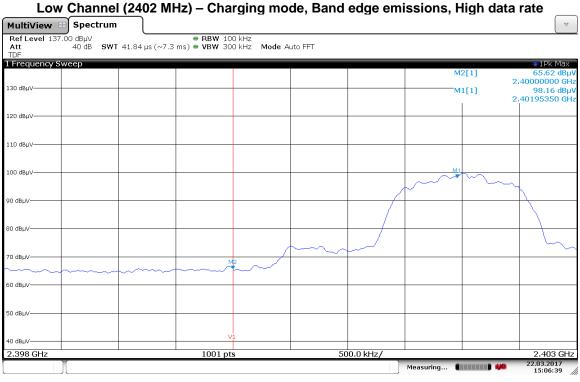
Date: 22.MAR.2017 14:55:40



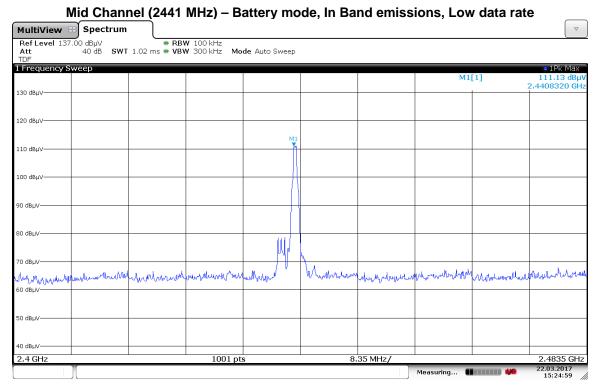
Date: 22.MAR.2017 14:56:53



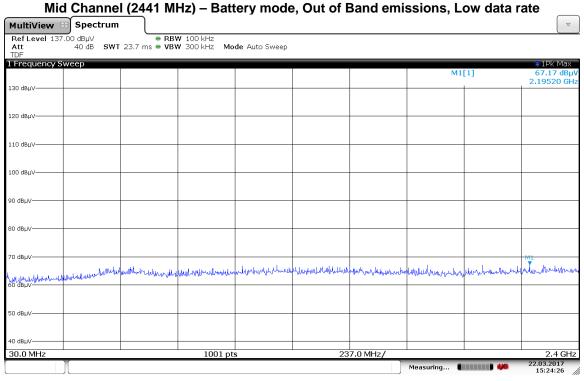
Date: 22.MAR.2017 14:57:24



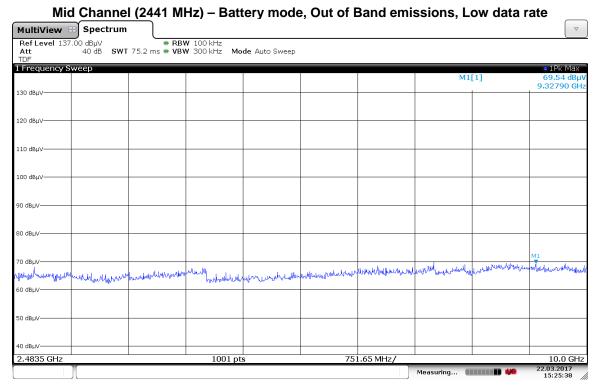
Date: 22.MAR.2017 15:06:39



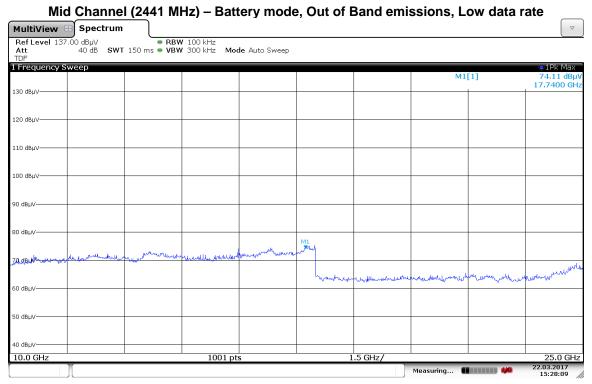
Date: 22.MAR.2017 15:25:00



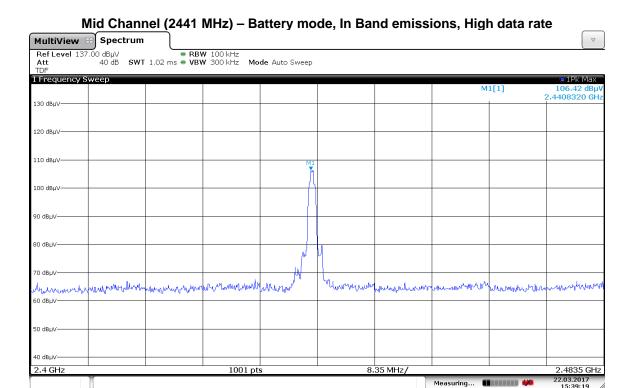
Date: 22.MAR.2017 15:24:26



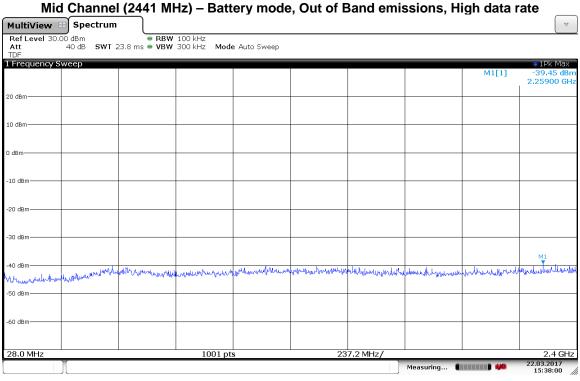
Date: 22.MAR.2017 15:25:37



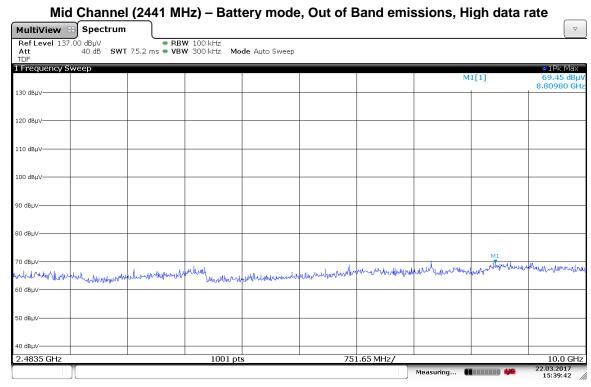
Date: 22.MAR.2017 15:28:09



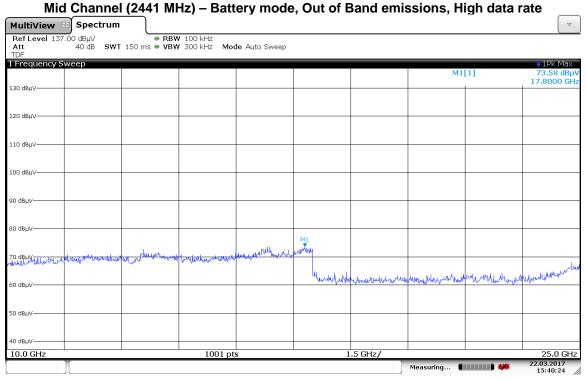
Date: 22.MAR.2017 15:39:18



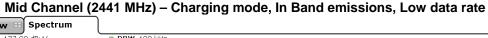
Date: 22.MAR.2017 15:37:59

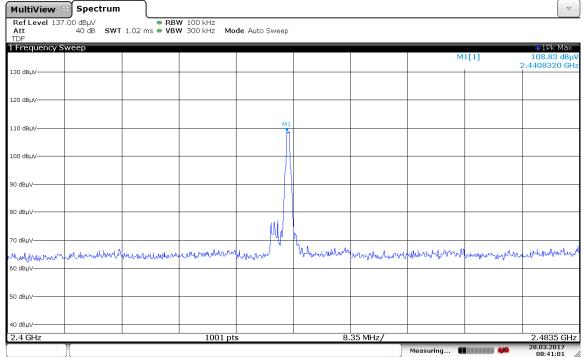


Date: 22.MAR.2017 15:39:41



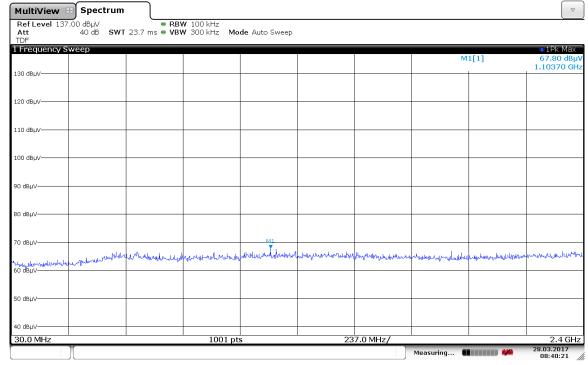
Date: 22.MAR.2017 15:40:24



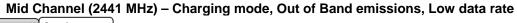


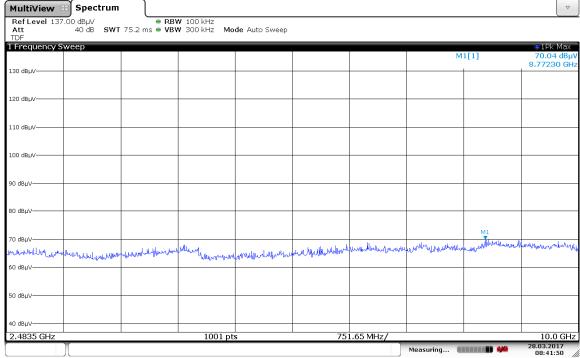
Date: 28.MAR.2017 08:41:00

Mid Channel (2441 MHz) - Charging mode, Out of Band emissions, Low data rate



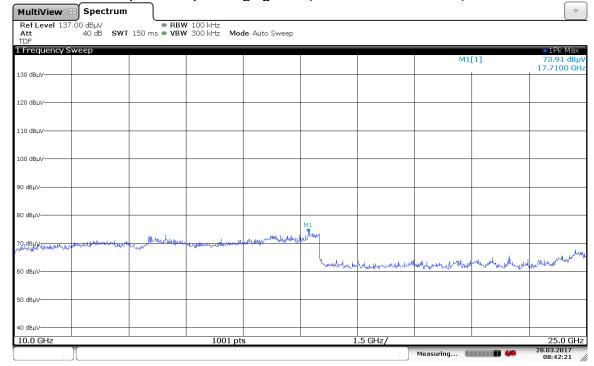
Date: 28.MAR.2017 08:40:21



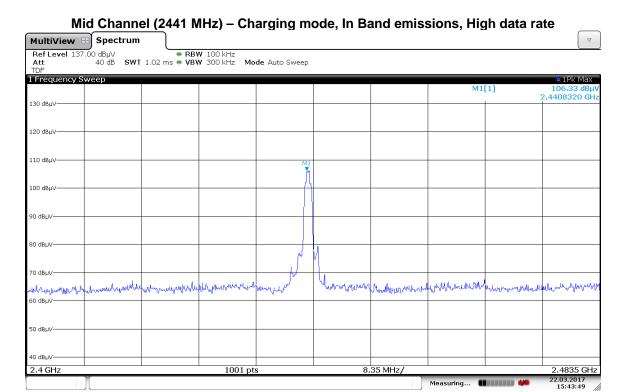


Date: 28.MAR.2017 08:41:51

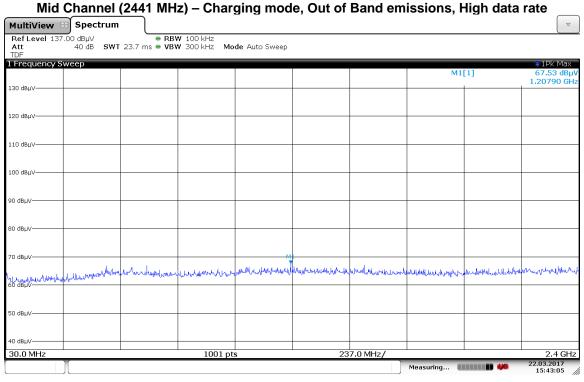
Mid Channel (2441 MHz) - Charging mode, Out of Band emissions, Low data rate



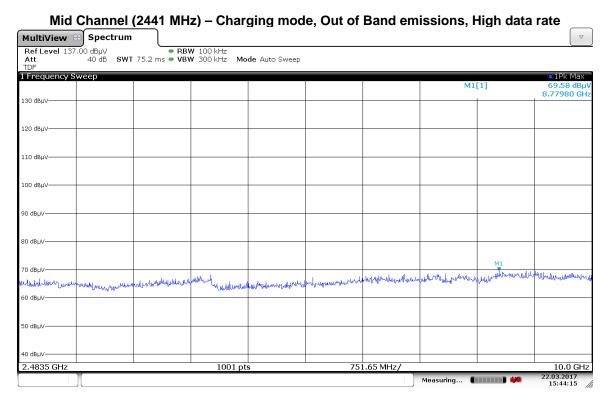
Date: 28.MAR.2017 08:42:21



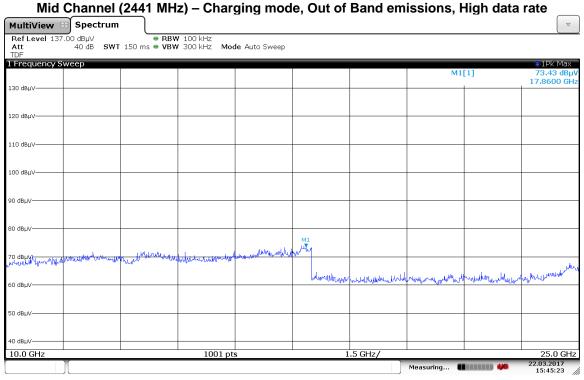
Date: 22.MAR.2017 15:43:49



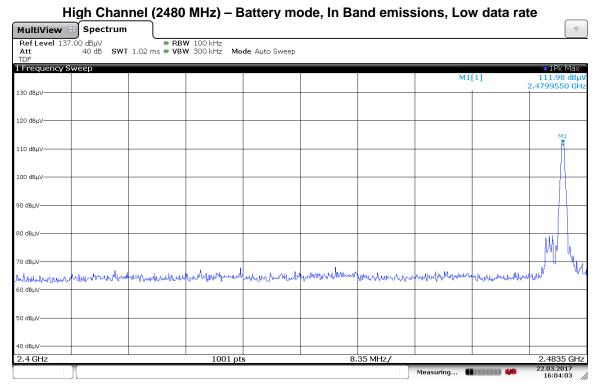
Date: 22.MAR.2017 15:43:05



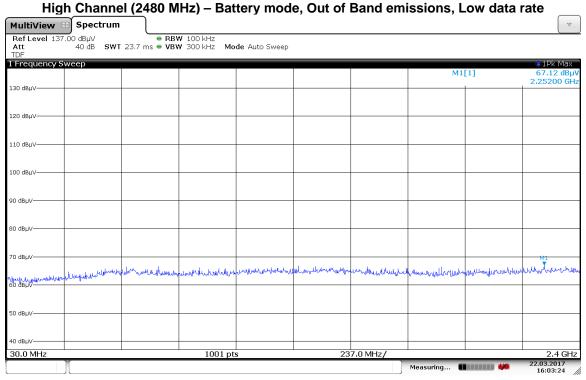
Date: 22.MAR.2017 15:44:16



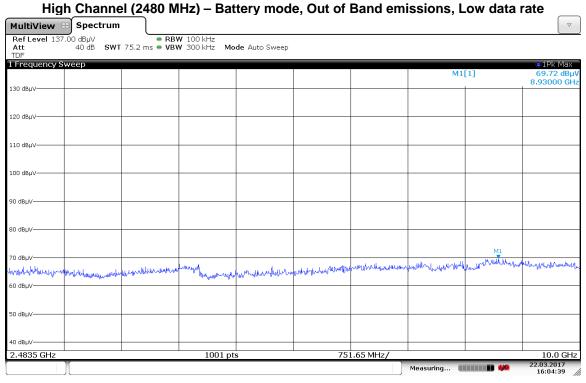
Date: 22.MAR.2017 15:45:23



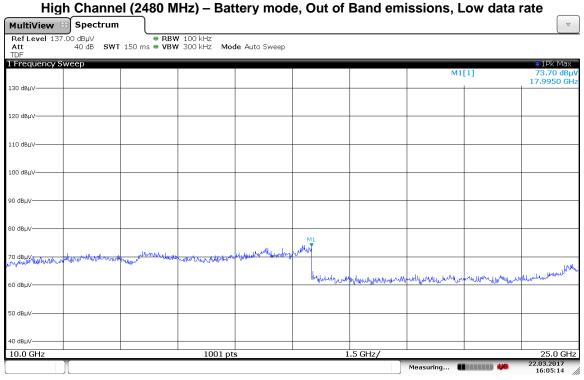
Date: 22.MAR.2017 16:04:02



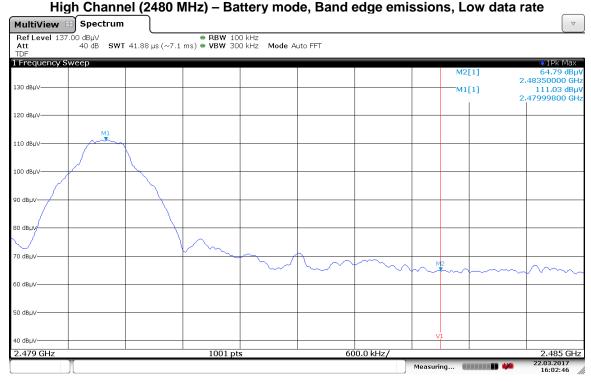
Date: 22.MAR.2017 16:03:23



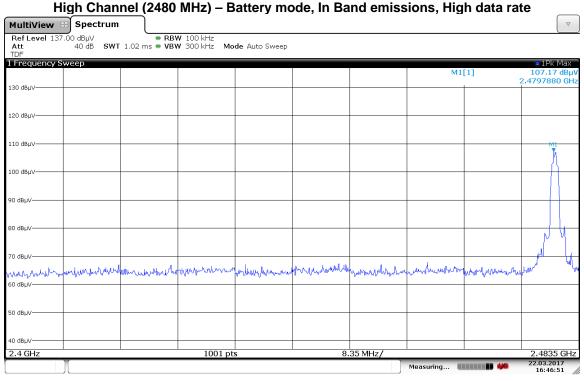
Date: 22.MAR.2017 16:04:39



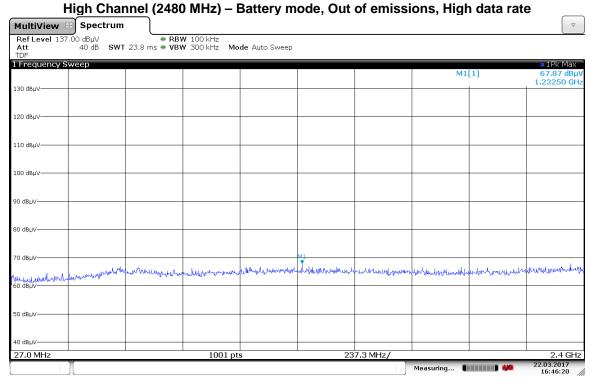
Date: 22.MAR.2017 16:05:14



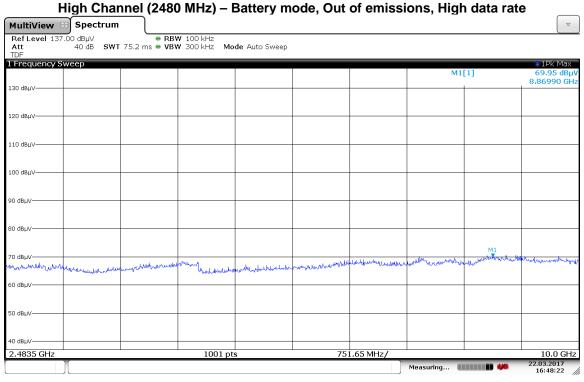
Date: 22.MAR.2017 16:02:45



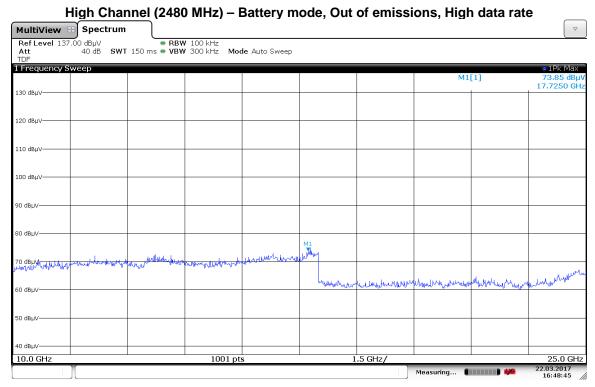
Date: 22.MAR.2017 16:46:50



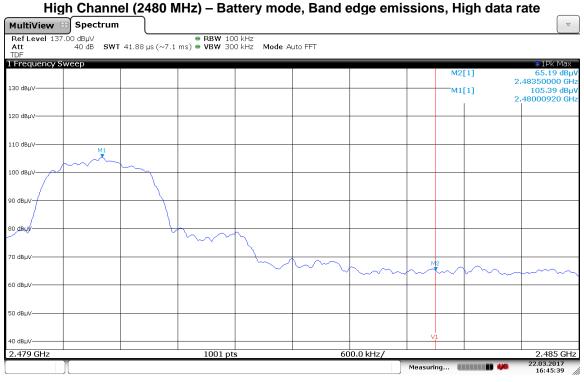
Date: 22.MAR.2017 16:46:20



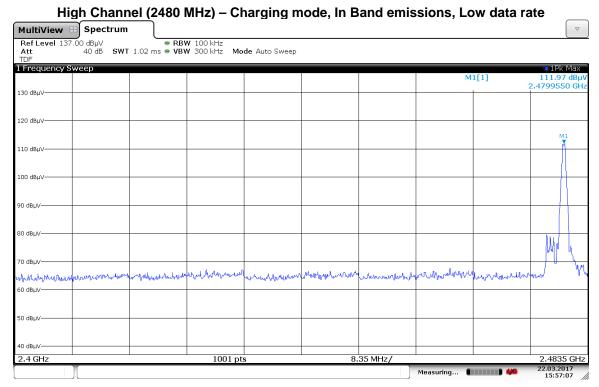
Date: 22.MAR.2017 16:48:21



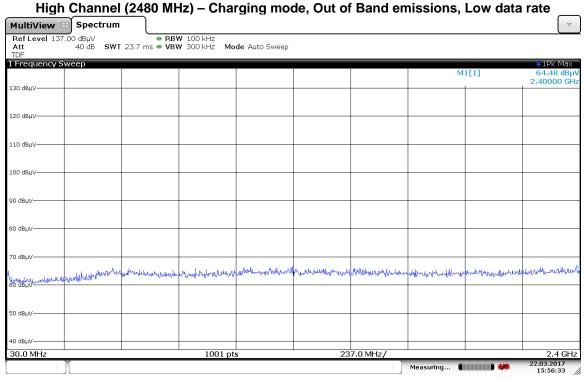
Date: 22.MAR.2017 16:48:44



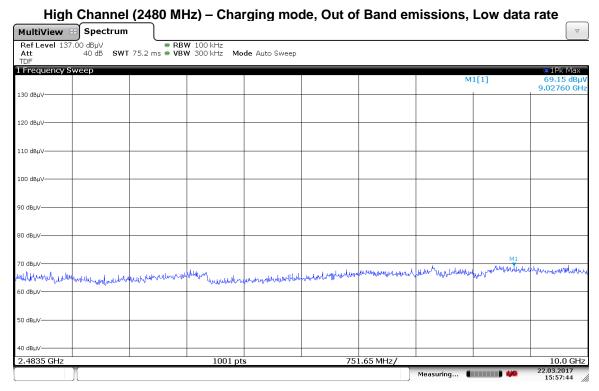
Date: 22.MAR.2017 16:45:39



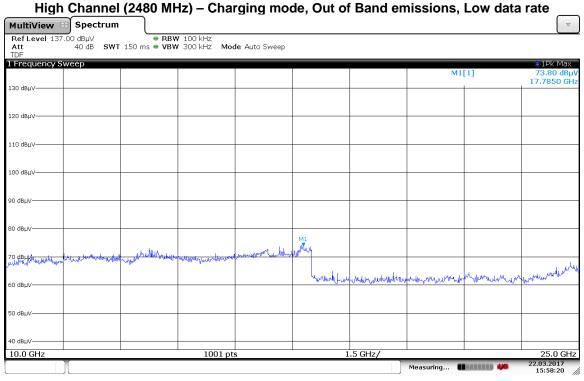
Date: 22.MAR.2017 15:57:07



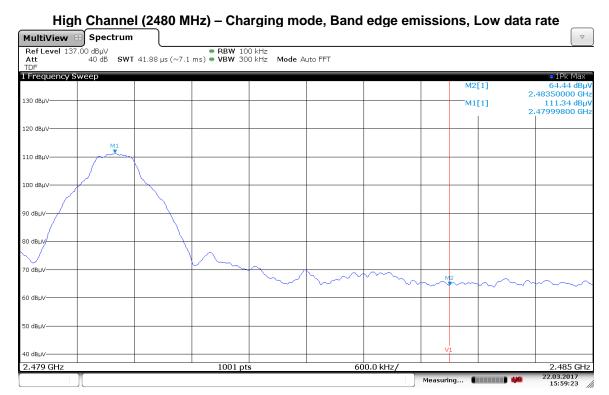
Date: 22.MAR.2017 15:56:33



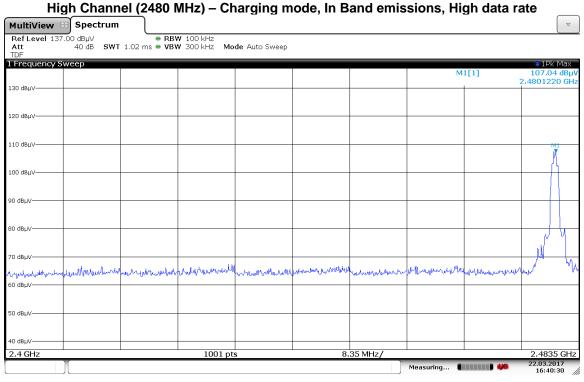
Date: 22.MAR.2017 15:57:43



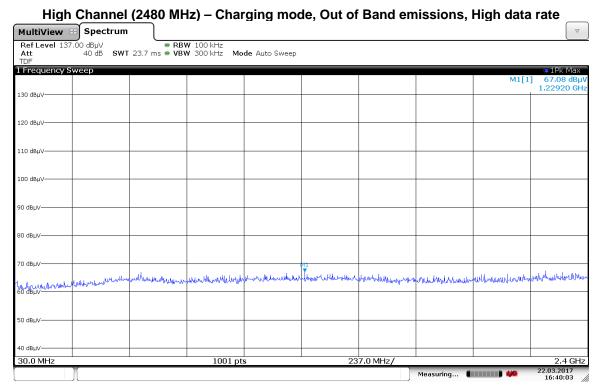
Date: 22.MAR.2017 15:58:20



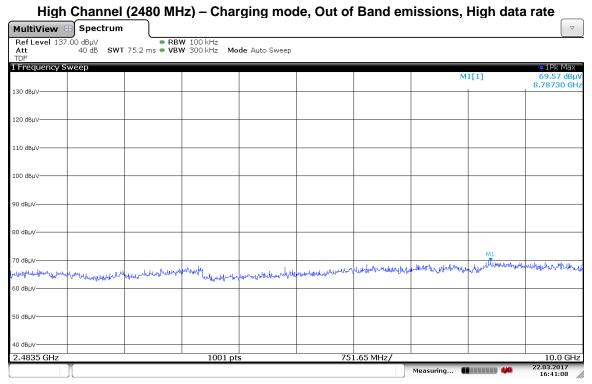
Date: 22.MAR.2017 15:59:23



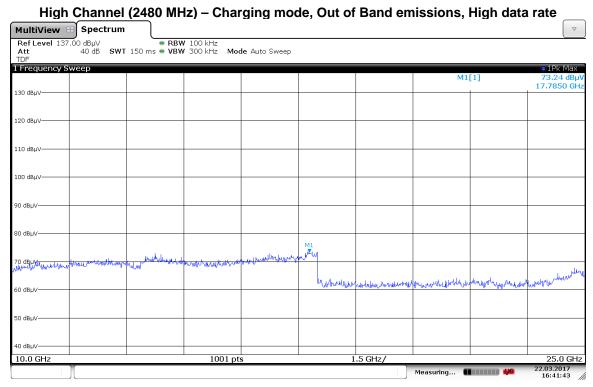
Date: 22.MAR.2017 16:40:30



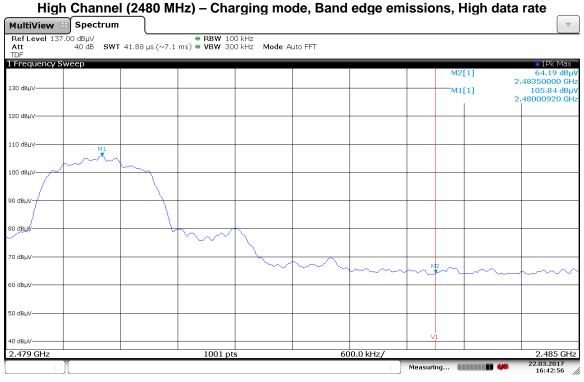
Date: 22.MAR.2017 16:40:03



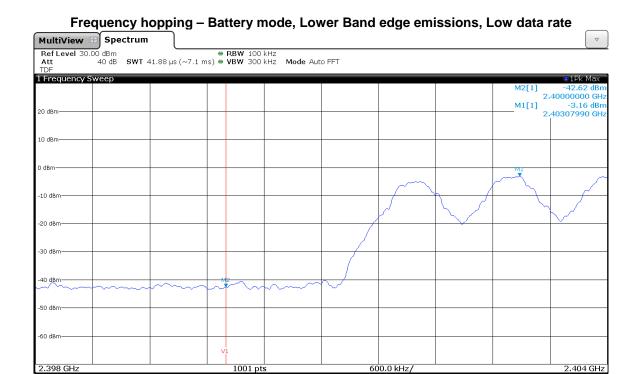
Date: 22.MAR.2017 16:41:07



Date: 22.MAR.2017 16:41:43



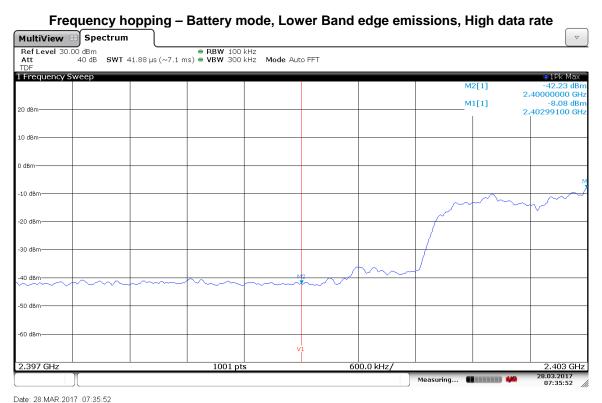
Date: 22.MAR.2017 16:42:56



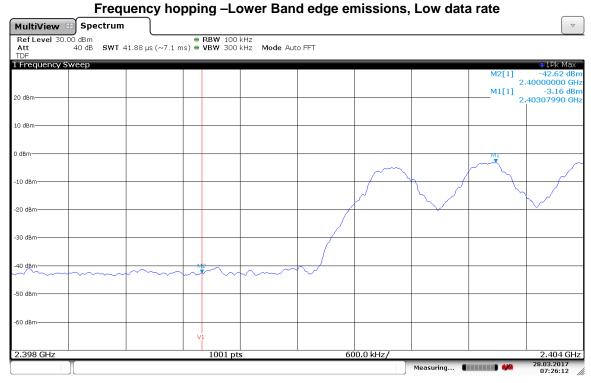
1001 pts

Date: 28.MAR.2017 07:26:12

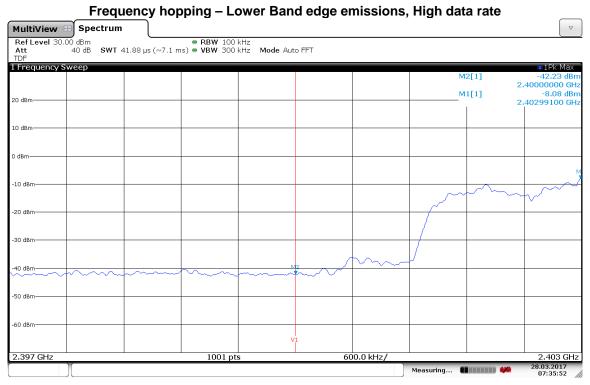
2.398 GHz



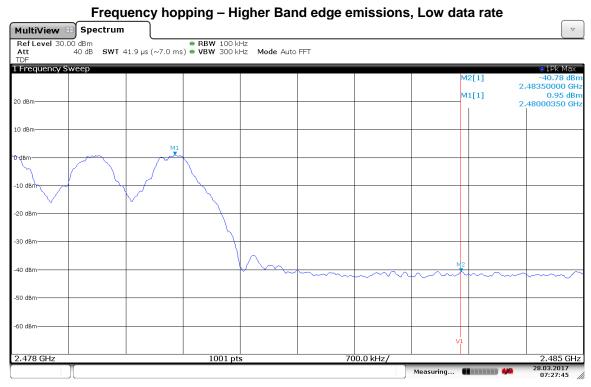
2.404 GHz



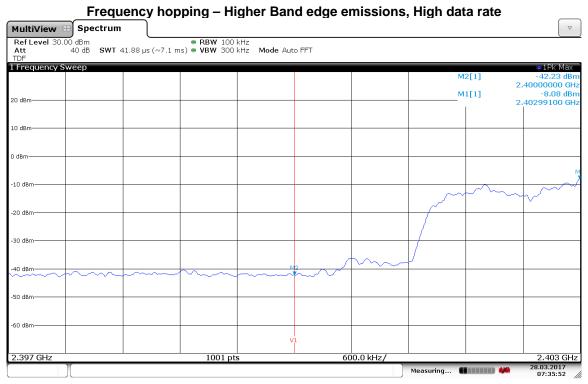
Date: 28.MAR.2017 07:26:12



Date: 28.MAR.2017 07:35:52



Date: 28.MAR.2017 07:27:44



Date: 28.MAR.2017 07:35:52

Intertek

Report Number: 102894565BOX-002 Issued: 04/14/2017

Test Personnel:	Naga Suryadevara N.5	Test Date:	03/28/2017
Supervising/Reviewing			
Engineer:			
(Where Applicable)	N/A		
Product Standard:	FCC Part 15 Subpart C (15.247)	Limit Applied:	See section 11.3
Input Voltage:	120VAC 60Hz, Internal Battery		
Pretest Verification w/		Ambient Temperature:	20 °C
Ambient Signals or			
BB Source:	Yes – Signal generator	Relative Humidity:	17 %
		Atmospheric Pressure:	1003 mbars

Non-Specific Radio Report Shell Rev. August 2015 Company: Zoll Medical Israel Ltd. Model: CMCT System Report Number: 102894565BOX-002 Issued: 04/14/2017

12 Radiated Spurious Emissions

12.1 Method

Tests are performed in accordance with FCC Part 15 Subpart C (15.247).

TEST SITE: 10m ALSE

The 10m ALSE is 13m (Length) x 21m (Depth) x 10m (Height) with the effective size in terms of space from the tips of the absorber is 12m (Length) x 20m (Depth) x 8.5m (Height). This chamber achieves broadband performance using a unique arrangement of hybrid and ferrite tile absorber. This chamber has a built in 3m diameter turntable (Embedded type). The metal structure of the table makes electrical connection around the entire circumference of the turntable to the ground plane with a metal brush type connection. The turntable is located on one end of the chamber and the antennas are mounted 3 and 10 meters away at the other end of the chamber on the adjustable an Antenna Mast. The antenna mast is a non-conductive bore sighted type with remote control of antenna height and polarization. The Antenna Mast and the turntable can be remotely controlled through the controller located in the adjacent Control room. A Styrofoam table 80 cm high is used for table-top equipment.

Measurement Uncertainty

Measurement	Frequency Range	Expanded Uncertainty (k=2)	Ucispr
Radiated Emissions, 10m	30-1000 MHz	4.6 dB	6.3 dB
Radiated Emissions, 3m	30-1000 MHz	5.3 dB	6.3 dB
Radiated Emissions, 3m	1-6 GHz	4.5 dB	5.2 dB
Radiated Emissions, 3m	6-15 GHz	5.2 dB	5.5 dB
Radiated Emissions, 3m	15-18 GHz	5.0 dB	5.5 dB
Radiated Emissions, 3m	18-40 GHz	5.0 dB	5.5 dB

As shown in the table above our radiated emissions $U_{{\scriptscriptstyle Iab}}$ is less than the corresponding $U_{{\scriptscriptstyle CISPR}}$ 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.

Non-Specific Radio Report Shell Rev. August 2015 Page 71 of 117 Report Number: 102894565BOX-002 Issued: 04/14/2017

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 $dB\mu V/m$

RA = Receiver Amplitude (including preamplifier) in dB_μV

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 = $52.0 \text{ dB}_{\mu}\text{V}$ AF = 7.4 dB/mCF = 1.6 dBAG = 29.0 dBFS = $32 \text{ dB}_{\mu}\text{V/m}$

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

UF =
$$10^{(NF/20)}$$
 where UF = Net Reading in μ 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 = $10^{(32 \, dB\mu V \, / \, 20)} = 39.8 \, \mu V/m$

Alternately, when BAT-EMC Emission Software is used, the "Level" includes all losses and gains and is compared directly in the "Margin" column to the "Limit". The "Correction" includes Antenna Factor, Preamp, and Cable Loss. These are already accounted for in the "Level" column.

Non-Specific Radio Report Shell Rev. August 2015 Company: Zoll Medical Israel Ltd. Model: CMCT System

Intertek

Report Number: 102894565BOX-002 Issued: 04/14/2017

12.2 Test Equipment Used:

Asset	Description	Manufacturer	Model	Serial	Cal Date	Cal Due
DAV004'	Weather Station	Davis Instruments	7400	PE80529A61A	05/02/2016	05/02/2017
145106'	Bilog Antenna (30MHz - 5GHz)	Sunol Sciences	JB5	A111003	05/03/2016	05/03/2017
145-410'	Cables 145-420 145-421 145-422 145-406	Huber + Suhner	10m Track A Cables	multiple	07/30/2016	07/30/2017
PRE10'	30-1000MHz pre-amp	ITS	PRE10	PRE10	12/16/2016	12/16/2017
ETS001'	1-18GHz DRG Horn Antenna	ETS Lindgren	3117	00143260	05/13/2016	05/13/2017
145-416'	Cables 145-420 145-423 145-424 145-408	Huber + Suhner	3m Track B cables	multiple	07/30/2016	07/30/2017
145014'	Preamplifier (1 GHz to 26.5 GHz)	Hewlett Packard	8449B	3008A00232	05/27/2016	05/27/2017
EMC04'	ANTENNA, RIDGED GUIDE, 18-40 GHZ	EMCO	3116	2090	09/14/2016	09/14/2017
REA004	3GHz High Pass Filter	Reactel, Inc	7HSX-3G/18G-S11	06-1	02/17/2017	02/17/2018
CBLSHF203'	Cable, SMA - SMA, 9kHz-40GHz, Cable Kit 4	Sucoflex (Huber Suhn	104PE	CBLSHF203	09/08/2016	09/08/2017
CBLSHF204'	Cable, SMA - SMA, 9kHz -40GHz, (Cable Kit 5)	Huber + Suhner	Sucoflex 102EA	234714001	08/27/2016	08/27/2017

Software Utilized:

Name	Manufacturer	Version		
BAT-EMC Emissions	Nexio	3.16.0.69		

12.3 Results:

The sample tested was found to Comply.

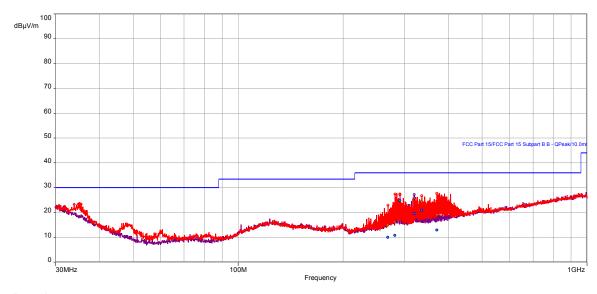
12.4 Plots/Data:

Low Channel, Charging mode, Tx (Low data rate, 30 MHz – 1 GHz)

Test Information:

Date and Time	03/20/2017
Client and Project Number	Zoll medical G102894565
Engineer	Naga Suryadevara
Temperature	20C
Humidity	16%
Atmospheric Pressure	1007mbars
Comments	120VAC 60Hz Tx mode Low Channel

Graph:



Results:

QuasiPeak (PASS) (6)

	(- / (- /							
Frequency	SR	Level	Limit	Margin	Azimuth	Height	Pol.	Meas.	Correction
(MHz)		(dBµV/m)	(dBµV/m)	(dB)	(°)	(m)		time (s)	(dB)
268.5	1	9.99	36.00	-26.01	176.00	1.45	Vertical	0.10	-18.08
281.34	1	10.77	36.00	-25.23	41.00	1.32	Vertical	0.10	-17.41
291.18	1	24.74	36.00	-11.26	210.00	1.00	Vertical	0.10	-17.55
336	1	20.88	36.00	-15.12	98.00	1.32	Vertical	0.10	-16.74
371.22	1	12.91	36.00	-23.09	197.00	1.32	Vertical	0.10	-15.71
319.86	2	19.58	36.00	-16.42	109.00	3.72	Horizontal	0.10	-16.78

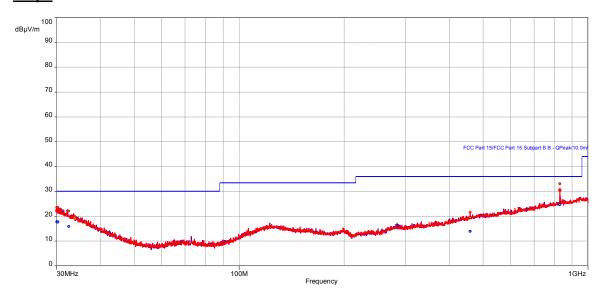
Issued: 04/14/2017 Report Number: 102894565BOX-002

Low Channel, Battery mode, Tx (Low data rate, 30 MHz – 1 GHz, X-axis)

Test Information:

Date and Time	03/20/2017
Client and Project Number	Zoll medical G102894565
Engineer	Naga Suryadevara
Temperature	20C
Humidity	16%
Atmospheric Pressure	1007mbars
Comments	Battery mode Tx X axis

Graph:



Results:

QuasiPeak (PASS) (6)

Frequency (MHz)	SR	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Azimuth	Height (m)	Pol.	Meas. time (s)	Correction (dB)
30.06	1	17.75	30.00	-12.25	212.00	3.00	Vertical	0.10	-11.04
30.18	1	17.69	30.00	-12.31	210.00	2.31	Vertical	0.10	-11.15
30.24	1	17.63	30.00	-12.37	334.00	4.00	Vertical	0.10	-11.21
32.52	1	15.84	30.00	-14.16	245.00	1.00	Vertical	0.10	-12.99
459.72	1	13.94	36.00	-22.06	64.00	3.70	Vertical	0.10	-13.23
830.16	1	24.65	36.00	-11.35	314.00	3.00	Vertical	0.10	-6.51

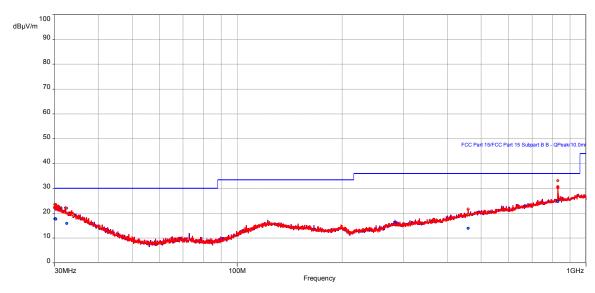
Non-Specific Radio Report Shell Rev. August 2015 Page 75 of 117

Low Channel, Battery mode, Tx (Low data rate, 30 MHz – 1 GHz, Y-axis)

Test Information:

Date and Time	03/20/2017
Client and Project Number	Zoll medical G102894565
Engineer	Naga Suryadevara
Temperature	20C
Humidity	16%
Atmospheric Pressure	1007mbars
Comments	Battery mode Tx Y axis

Graph:



Results:

QuasiPeak (PASS) (6)

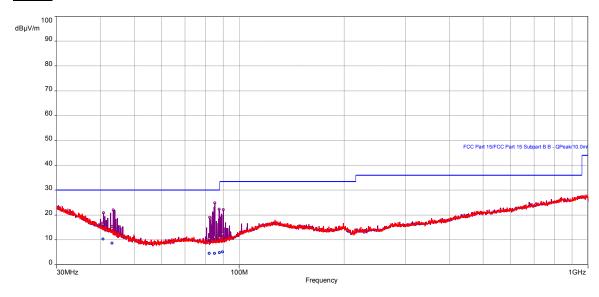
Quasii cak	$(1 \land 0)$	3) (0)							
Frequency	SR	Level	Limit	Margin	Azimuth	Height	Pol.	Meas.	Correction
(MHz)		(dBµV/m)	(dBµV/m)	(dB)	(°)	(m)		time (s)	(dB)
30.06	1	17.75	30.00	-12.25	212.00	3.00	Vertical	0.10	-11.04
30.18	1	17.69	30.00	-12.31	210.00	2.31	Vertical	0.10	-11.15
30.24	1	17.63	30.00	-12.37	334.00	4.00	Vertical	0.10	-11.21
32.52	1	15.84	30.00	-14.16	245.00	1.00	Vertical	0.10	-12.99
459.72	1	13.94	36.00	-22.06	64.00	3.70	Vertical	0.10	-13.23
830.16	1	24.65	36.00	-11.35	314.00	3.00	Vertical	0.10	-6.51

Low Channel, Battery mode, Tx (Low data rate, 30 MHz – 1 GHz, Z-axis)

Test Information:

Date and Time	03/27/2017
Client and Project Number	Zoll medical
Engineer	Naga Suryadevara
Temperature	19C
Humidity	26%
Atmospheric Pressure	1013mbars
Comments	Battery mode Tx Z axis

Graph:



Results:

QuasiPeak (PASS) (6)

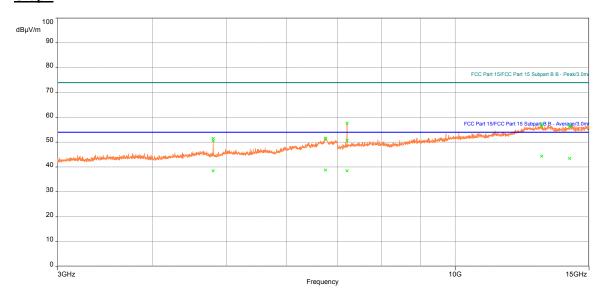
addon our	(, , ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	5) (5)							
Frequency	SR	Level	Limit	Margin	Azimuth	Height	Pol.	Meas.	Correction
(MHz)		(dBµV/m)	(dBµV/m)	(dB)	(°)	(m)		time (s)	(dB)
40.74	2	10.24	30.00	-19.76	243.00	2.48	Horizontal	0.10	-19.10
43.26	2	8.65	30.00	-21.35	266.00	2.21	Horizontal	0.10	-20.79
82.14	2	4.46	30.00	-25.54	278.00	2.50	Horizontal	0.10	-24.84
85.08	2	4.50	30.00	-25.50	322.00	1.00	Horizontal	0.10	-24.89
87.84	2	4.76	30.00	-25.24	255.00	1.35	Horizontal	0.10	-24.58
89.64	2	5.07	33.50	-28.43	225.00	1.50	Horizontal	0.10	-24.22

Low Channel, Charging mode, Tx (Low data rate, above 1 GHz)

Test Information:

Date and Time	03/27/2017
Client and Project Number	Zoll medical
Engineer	Naga Suryadevara
Temperature	19C
Humidity	26%
Atmospheric Pressure	1013mbars
Comments	Charging Tx low channel

Graph:



Results:

Avg (PASS) (5)

Frequency	SR	Level	Limit	Margin	Azimuth	Height	Pol.	Meas.	Correction
(MHz)		(dBµV/m)	(dBµV/m)	(dB)	(°)	(m)		time (s)	(dB)
6748.5	1	38.71	54.00	-15.29	145.00	1.49	Vertical	0.10	11.67
7206	1	38.46	54.00	-15.54	6.00	2.74	Vertical	0.10	11.81
12991	1	44.34	54.00	-9.66	218.00	2.14	Vertical	0.10	22.64
14147.5	1	43.46	54.00	-10.54	299.00	3.29	Vertical	0.10	22.90
4804	2	38.45	54.00	-15.55	18.00	3.50	Horizontal	0.10	8.35

Peak (PASS) (5)

Frequency	SR	Level	Limit	Margin	Azimuth	Height	Pol.	Meas.	Correction
(MHz)		(dBµV/m)	(dBµV/m)	(dB)	(°)	(m)		time (s)	(dB)
6748.5	1	51.52	74.00	-22.48	145.00	1.49	Vertical	0.10	11.67
7206	1	50.70	74.00	-23.30	6.00	2.74	Vertical	0.10	11.81
12991	1	56.53	74.00	-17.47	218.00	2.14	Vertical	0.10	22.64
14147.5	1	56.40	74.00	-17.60	299.00	3.29	Vertical	0.10	22.90
4804	2	51.48	74.00	-22.52	18.00	3.50	Horizontal	0.10	8.35

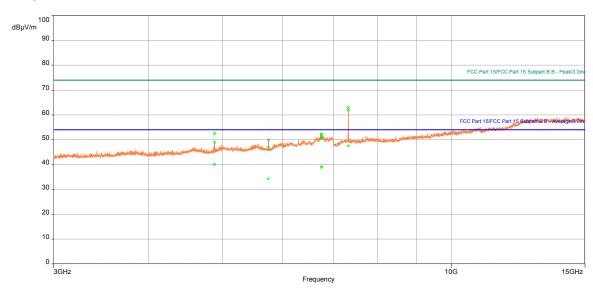
Note: Manual Scans were performed from 1-3 GHz and 15-40 GHz, no emissions were detected above the noise floor.

Mid Channel, Charging mode, Tx (Low data rate, above 1 GHz)

Test Information:

Date and Time	03/23/2017
Client and Project Number	Zoll Medical G102894565
Engineer	Kouma Sinn
Temperature	19C
Humidity	8%
Atmospheric Pressure	1021mbar
Comments	Bluetooth, Mid, Charging

Graph:



Results:

Avg (PASS) (5)

Frequency	SR	Level	Limit	Margin	Azimuth	Height	Pol.	Meas.	Correction
(MHz)		(dBµV/m)	(dBµV/m)	(dB)	(°)	(m)		time (s)	(dB)
7322.5	1	47.44	54.00	-6.56	0.00	2.83	Vertical	0.10	12.07
4882	2	40.00	54.00	-14.00	0.00	3.50	Horizontal	0.10	8.52
5746.5	2	34.27	54.00	-19.73	30.00	3.77	Horizontal	0.10	9.41
6751	2	38.90	54.00	-15.10	210.00	3.03	Horizontal	0.10	11.67
6756	2	39.01	54.00	-14.99	239.00	3.75	Horizontal	0.10	11.65

Peak (PASS) (5)

Frequency	SR	Level	Limit	Margin	Azimuth	Height	Pol.	Meas.	Correction
(MHz)		(dBµV/m)	(dBµV/m)	(dB)	(°)	(m)		time (s)	(dB)
7322.5	1	62.90	74.00	-11.10	0.00	2.83	Vertical	0.10	12.07
4882	2	52.42	74.00	-21.58	0.00	3.50	Horizontal	0.10	8.52
5746.5	2	46.83	74.00	-27.17	30.00	3.77	Horizontal	0.10	9.41
6751	2	52.11	74.00	-21.89	210.00	3.03	Horizontal	0.10	11.67
6756	2	52.24	74.00	-21.76	239.00	3.75	Horizontal	0.10	11.65

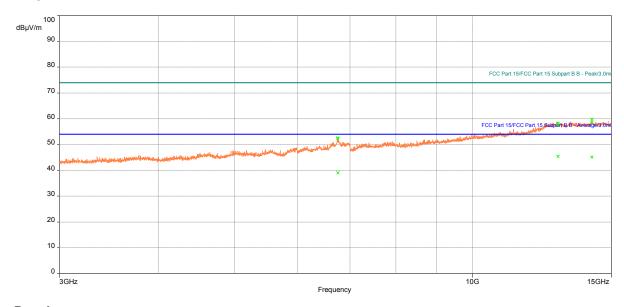
Note: Manual Scans were performed from 1-3 GHz and 15 - 40 GHz, no emissions were detected above the noise floor $\frac{1}{2}$

High Channel, Charging mode, Tx (Low data rate, above 1 GHz)

Test Information:

Date and Time	03/23/2017
Client and Project Number	Zoll Medical G102894565
Engineer	Kouma Sinn
Temperature	19C
Humidity	8%
Atmospheric Pressure	1021mbar
Comments	3-15GHz Bluetooth, Tx High, Charging

Graph:



Results:

Avg (PASS) (3)

Frequency	SR	Level	Limit	Margin	Azimuth	Height	Pol.	Meas.	Correction
(MHz)		(dBµV/m)	(dBµV/m)	(dB)	(°)	(m)		time (s)	(dB)
6753	1	39.02	54.00	-14.98	228.00	2.85	Vertical	0.10	11.66
12834.5	1	45.36	54.00	-8.64	209.00	2.50	Vertical	0.10	22.33
14159	1	45.07	54.00	-8.93	105.00	1.76	Vertical	0.10	22.90

Peak (PASS) (3)

Frequency	SR	Level	Limit	Margin	Azimuth	Height	Pol.	Meas.	Correction
(MHz)		(dBµV/m)	(dBµV/m)	(dB)	(°)	(m)		time (s)	(dB)
6753	1	52.54	74.00	-21.46	228.00	2.85	Vertical	0.10	11.66
12834.5	1	57.57	74.00	-16.43	209.00	2.50	Vertical	0.10	22.33
14159	1	58.42	74.00	-15.58	105.00	1.76	Vertical	0.10	22.90

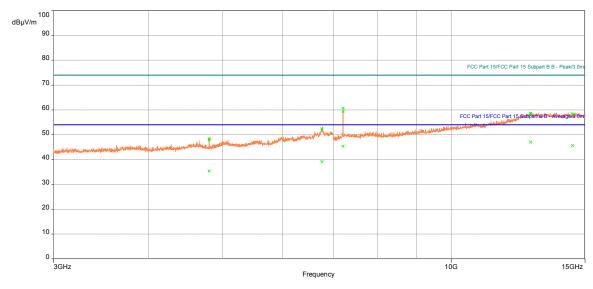
Note: Manual Scans were performed from 1-3 GHz and 15-40 GHz, no emissions were detected above the noise floor.

Low Channel, Battery mode, Tx (Low data rate, above 1 GHz, X axis)

Test Information:

Date and Time	03/22/2017
Client and Project Number	Zoll Medical G102894565
Engineer	Kouma Sinn
Temperature	20C
Humidity	20%
Atmospheric Pressure	1000mbar
Comments	Bluetooth, Tx Low, X-axis

Graph:



Results:

Avg (PASS) (5)

Frequency	Level	Limit	Margin	Azimuth	Height (m)	Pol.	Meas.	Correction
(MHz)	(dBµV/m)	(dBµV/m)	(dB)	(°)			time (s)	(dB)
7206.5	45.34	54.00	-8.66	0.00	2.00	Vertical	0.10	11.81
12721	46.94	54.00	-7.06	138.00	3.41	Vertical	0.10	22.00
14449	45.63	54.00	-8.37	359.00	3.13	Vertical	0.10	22.50
4804	35.32	54.00	-18.68	29.00	1.79	Horizontal	0.10	8.35
6759	39.18	54.00	-14.82	300.00	1.00	Horizontal	0.10	11.64

Peak (PASS) (5)

Frequency	Level	Limit	Margin	Azimuth	Height (m)	Pol.	Meas.	Correction
(MHz)	(dBµV/m)	(dBµV/m)	(dB)	(°)			time (s)	(dB)
7206.5	60.65	74.00	-13.35	0.00	2.00	Vertical	0.10	11.81
12721	58.08	74.00	-15.92	138.00	3.41	Vertical	0.10	22.00
14449	58.16	74.00	-15.84	359.00	3.13	Vertical	0.10	22.50
4804	48.21	74.00	-25.79	29.00	1.79	Horizontal	0.10	8.35
6759	52.23	74.00	-21.77	300.00	1.00	Horizontal	0.10	11.64

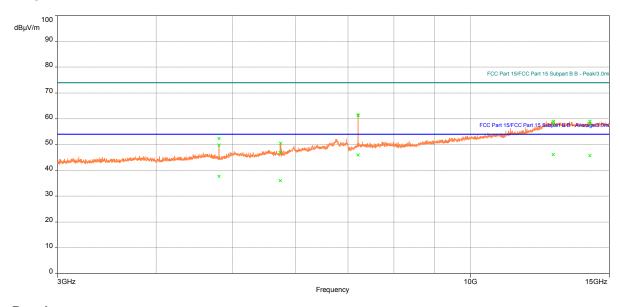
Note: Manual Scans were performed from 1-3 GHz and 15-40 GHz, no emissions were detected above the noise floor.

Low Channel, Battery mode, Tx (Low data rate, above 1 GHz, Y axis)

Test Information:

Date and Time	03/22/2017
Client and Project Number	Zoll Medical G102894565
Engineer	Kouma Sinn
Temperature	20C
Humidity	20%
Atmospheric Pressure	1000mbar
Comments	3-15GHz_Bluetooth, Tx Low, Y-axis

Graph:



Results:

Avg (PASS) (5)

	(-)							
Frequency	Level	Limit	Margin	Azimuth	Height (m)	Pol.	Meas.	Correction
(MHz)	(dBµV/m)	(dBµV/m)	(dB)	(°)			time (s)	(dB)
5744	36.06	54.00	-17.94	75.00	2.42	Vertical	0.10	9.41
12729	46.10	54.00	-7.90	255.00	2.49	Vertical	0.10	22.02
14165.5	45.72	54.00	-8.28	165.00	1.75	Vertical	0.10	22.91
4803.5	37.69	54.00	-16.31	16.00	2.28	Horizontal	0.10	8.35
7206.5	45.87	54.00	-8.13	37.00	2.99	Horizontal	0.10	11.81

Peak (PASS) (5)

Frequency	Level	Limit	Margin	Azimuth	Height (m)	Pol.	Meas.	Correction
(MHz)	(dBµV/m)	(dBµV/m)	(dB)	(°)			time (s)	(dB)
5744	46.83	74.00	-27.17	75.00	2.42	Vertical	0.10	9.41
12729	58.90	74.00	-15.10	255.00	2.49	Vertical	0.10	22.02
14165.5	58.00	74.00	-16.00	165.00	1.75	Vertical	0.10	22.91
4803.5	52.37	74.00	-21.63	16.00	2.28	Horizontal	0.10	8.35
7206.5	61.32	74.00	-12.68	37.00	2.99	Horizontal	0.10	11.81

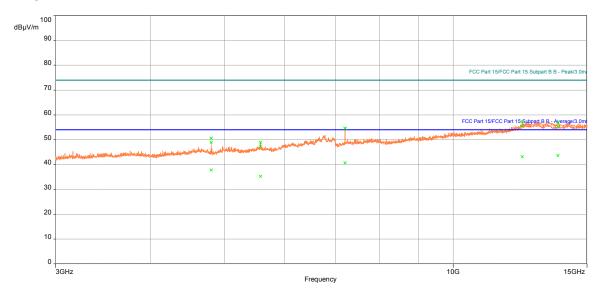
Note: Manual Scans were performed from 1-3 GHz and 15 - 40 GHz, no emissions were detected above the noise floor.

Low Channel, Battery mode, Tx (Low data rate, above 1 GHz, Z axis)

Test Information:

Date and Time	03/27/2017
Client and Project Number	Zoll medical
Engineer	Naga Suryadevara
Temperature	19C
Humidity	26%
Atmospheric Pressure	1013mbars
Comments	Battery mode Tx Z axis Low channel above 1 GHz

Graph:



Results:

Avg (PASS) (5)

Frequency	SR	Level	Limit	Margin	Azimuth	Height	Pol.	Meas.	Correction
(MHz)		(dBµV/m)	(dBµV/m)	(dB)	(°)	(m)		time (s)	(dB)
4804	1	37.79	54.00	-16.21	139.00	1.85	Vertical	0.10	8.35
5579	1	35.18	54.00	-18.82	150.00	1.76	Vertical	0.10	9.31
7206	1	40.75	54.00	-13.25	328.00	1.00	Vertical	0.10	11.81
12321.5	1	43.16	54.00	-10.84	254.00	1.48	Vertical	0.10	20.77
13732	1	43.62	54.00	-10.38	229.00	2.85	Vertical	0.10	22.41

Peak (PASS) (5)

1 0011 (17100	- / \ - /								
Frequency	SR	Level	Limit	Margin	Azimuth	Height	Pol.	Meas.	Correction
(MHz)		(dBµV/m)	(dBµV/m)	(dB)	(°)	(m)		time (s)	(dB)
4804	1	50.64	74.00	-23.36	139.00	1.85	Vertical	0.10	8.35
5579	1	47.39	74.00	-26.61	150.00	1.76	Vertical	0.10	9.31
7206	1	54.52	74.00	-19.48	328.00	1.00	Vertical	0.10	11.81
12321.5	1	55.60	74.00	-18.40	254.00	1.48	Vertical	0.10	20.77
13732	1	55.28	74.00	-18.72	229.00	2.85	Vertical	0.10	22.41

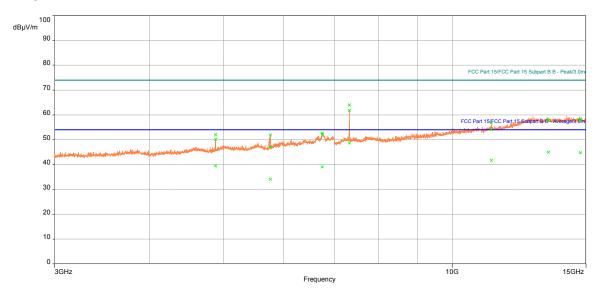
Note: Manual Scans were performed from 1-3 GHz and 15-40 GHz, no emissions were detected above the noise floor.

Mid Channel, Battery mode, Tx (Low data rate, above 1 GHz, X axis)

Test Information:

Date and Time	03/23/2017
Client and Project Number	Zoll Medical G102894565
Engineer	Kouma Sinn
Temperature	19C
Humidity	8%
Atmospheric Pressure	1021mbar
Comments	Bluetooth, Tx Mid, X-axis

Graph:



Results:

Ava (PASS) (7)

Frequency	Level	Limit	Margin	Azimuth	Height (m)	Pol.	Meas.	Correction
(MHz)	(dBµV/m)	(dBµV/m)	(dB)	(°)	,		time (s)	(dB)
4882	39.40	54.00	-14.60	0.00	2.42	Vertical	0.10	8.52
5765.5	34.00	54.00	-20.00	273.00	1.50	Vertical	0.10	9.40
6748	39.03	54.00	-14.97	172.00	1.50	Vertical	0.10	11.67
7322.5	48.61	54.00	-5.39	353.00	1.85	Vertical	0.10	12.07
11257	41.68	54.00	-12.32	29.00	1.00	Vertical	0.10	18.66
13380	44.94	54.00	-9.06	58.00	1.00	Vertical	0.10	22.66
14750	44.73	54.00	-9.27	164.00	2.50	Vertical	0.10	22.68

Peak (PASS) (7)

Frequency	ŚŔ	Level	Limit	Margin	Azimuth	Height	Pol.	Meas.	Correction
(MHz)		(dBµV/m)	(dBµV/m)	(dB)	(°)	(m)		time (s)	(dB)
4882	1	52.03	74.00	-21.97	0.00	2.42	Vertical	0.10	8.52
5765.5	1	46.95	74.00	-27.05	273.00	1.50	Vertical	0.10	9.40
6748	1	52.55	74.00	-21.45	172.00	1.50	Vertical	0.10	11.67
7322.5	1	63.96	74.00	-10.04	353.00	1.85	Vertical	0.10	12.07
11257	1	54.05	74.00	-19.95	29.00	1.00	Vertical	0.10	18.66
13380	1	57.62	74.00	-16.38	58.00	1.00	Vertical	0.10	22.66
14750	1	57.92	74.00	-16.08	164.00	2.50	Vertical	0.10	22.68

Note: Manual Scans were performed from 1-3 GHz and 15 – 40 GHz, no emissions were detected above the noise floor

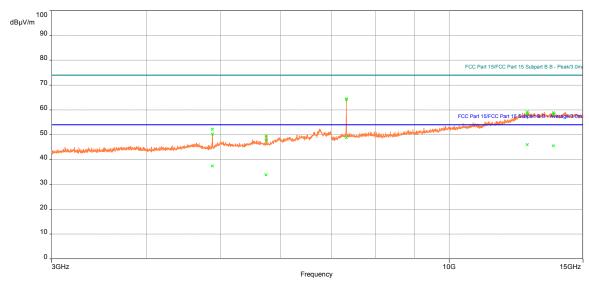
Non-Specific Radio Report Shell Rev. August 2015 Page 84 of 117

Mid Channel, Battery mode, Tx (Low data rate, above 1 GHz, Y axis)

Test Information:

Date and Time	03/22/2017
Client and Project Number	Zoll Medical G102894565
Engineer	Kouma Sinn
Temperature	20C
Humidity	20%
Atmospheric Pressure	1000mbar
Comments	3-15GHz_Bluetooth, Tx Mid, Y-axis

Graph:



Results:

Avg (PASS) (5)

Frequency	Level	Limit	Margin	Azimuth	Height (m)	Pol.	Meas.	Correction
(MHz)	(dBµV/m)	(dBµV/m)	(dB)	(°)			time (s)	(dB)
4881.5	37.41	54.00	-16.59	19.00	2.28	Horizontal	0.10	8.52
5741	33.85	54.00	-20.15	127.00	2.42	Horizontal	0.10	9.41
7322.5	48.80	54.00	-5.20	37.00	1.99	Horizontal	0.10	12.07
12667.5	46.01	54.00	-7.99	76.00	1.99	Horizontal	0.10	21.84
13713.5	45.52	54.00	-8.48	165.00	2.42	Horizontal	0.10	22.40

Peak (PASS) (5)

Frequency	Level	Limit	Margin	Azimuth	Height (m)	Pol.	Meas.	Correction
(MHz)	(dBµV/m)	(dBµV/m)	(dB)	(°)			time (s)	(dB)
4881.5	52.15	74.00	-21.85	19.00	2.28	Horizontal	0.10	8.52
5741	47.79	74.00	-26.21	127.00	2.42	Horizontal	0.10	9.41
7322.5	64.23	74.00	-9.77	37.00	1.99	Horizontal	0.10	12.07
12667.5	58.18	74.00	-15.82	76.00	1.99	Horizontal	0.10	21.84
13713.5	58.19	74.00	-15.81	165.00	2.42	Horizontal	0.10	22.40

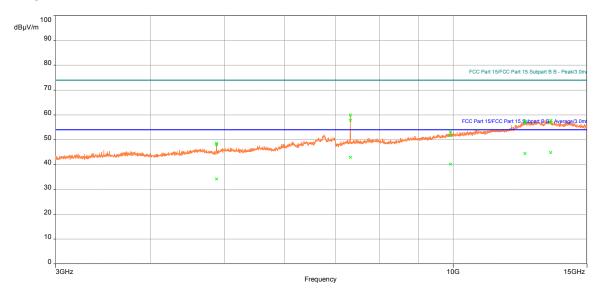
Note: Manual Scans were performed from 1-3 GHz and 15-40 GHz, no emissions were detected above the noise floor.

Mid Channel, Battery mode, Tx (Low data rate, above 1 GHz, Z axis)

Test Information:

Date and Time	03/27/2017
Client and Project Number	Zoll medical
Engineer	Naga Suryadevara
Temperature	19C
Humidity	26%
Atmospheric Pressure	1013mbars
Comments	Battery mode Tx Z axis Mid channel above 1 GHz

Graph:



Results:

Avg (PASS) (5)

Frequency	SR	Level	Limit	Margin	Azimuth	Height	Pol.	Meas.	Correction
(MHz)		(dBµV/m)	(dBµV/m)	(dB)	(°)	(m)		time (s)	(dB)
4882.5	1	34.17	54.00	-19.83	120.00	3.43	Vertical	0.10	8.52
7322.5	1	42.87	54.00	-11.13	328.00	1.00	Vertical	0.10	12.07
9918	1	40.15	54.00	-13.85	209.00	2.50	Vertical	0.10	15.30
12423.5	1	44.38	54.00	-9.62	299.00	1.36	Vertical	0.10	21.06
13437.5	1	44.78	54.00	-9.22	29.00	1.00	Vertical	0.10	22.62

Peak (PASS) (5)

Frequency	SR	Level	Limit	Margin	Azimuth	Height	Pol.	Meas.	Correction
(MHz)		(dBµV/m)	(dBµV/m)	(dB)	(°)	(m)		time (s)	(dB)
4882.5	1	48.50	74.00	-25.50	120.00	3.43	Vertical	0.10	8.52
7322.5	1	57.87	74.00	-16.13	328.00	1.00	Vertical	0.10	12.07
9918	1	51.64	74.00	-22.36	209.00	2.50	Vertical	0.10	15.30
12423.5	1	56.74	74.00	-17.26	299.00	1.36	Vertical	0.10	21.06
13437.5	1	56.91	74.00	-17.09	29.00	1.00	Vertical	0.10	22.62

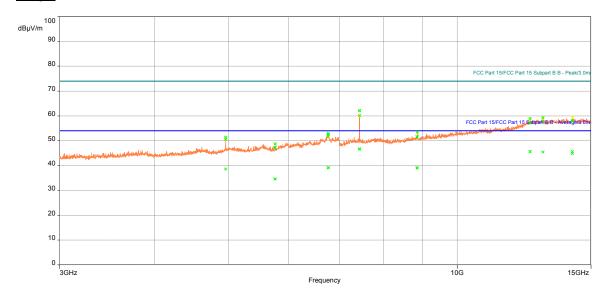
Note: Manual Scans were performed from 1-3 GHz and 15-40 GHz, no emissions were detected above the noise floor.

High Channel, Battery mode, Tx (Low data rate, above 1 GHz, X axis)

Test Information:

Date and Time	03/23/2017
Client and Project Number	Zoll Medical G102894565
Engineer	Kouma Sinn
Temperature	19C
Humidity	8%
Atmospheric Pressure	1021mbar
Comments	Bluetooth, High, X-axis

Graph:



Results:

Avg (PASS) (14)

Frequency (MHz)	SR	Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Azimuth	Height (m)	Pol.	Meas. time (s)	Correction (dB)
4960	1	38.59	54.00	-15.41	0.00	3.76	Vertical	0.10	8.77
5760	1	34.50	54.00	-19.50	174.00	1.75	Vertical	0.10	9.40
5762.5	1	34.50	54.00	-19.50	166.00	1.98	Vertical	0.10	9.40
6764.5	1	39.10	54.00	-14.90	58.00	1.50	Vertical	0.10	11.62
6769	1	39.09	54.00	-14.91	49.00	1.85	Vertical	0.10	11.60
7439.5	1	46.70	54.00	-7.30	329.00	1.73	Vertical	0.10	12.11
7440.5	1	46.46	54.00	-7.54	329.00	1.74	Vertical	0.10	12.11
8858	1	38.96	54.00	-15.04	30.00	3.85	Vertical	0.10	13.54
8859	1	39.12	54.00	-14.88	30.00	3.75	Vertical	0.10	13.54
12468	1	45.56	54.00	-8.44	217.00	2.00	Vertical	0.10	21.21
12470.5	1	45.57	54.00	-8.43	239.00	1.50	Vertical	0.10	21.22
12970	1	45.43	54.00	-8.57	0.00	1.49	Vertical	0.10	22.62
14175.5	2	44.85	54.00	-9.15	319.00	1.25	Horizontal	0.10	22.91
14177.5	2	45.62	54.00	-8.38	308.00	1.48	Horizontal	0.10	22.91

Non-Specific Radio Report Shell Rev. August 2015 Page 87 of 117

Intertek

Report Number: 102894565BOX-002 Issued: 04/14/2017

Peak (PASS) (14)

Frequency	SR	Level	Limit	Margin	Azimuth	Height	Pol.	Meas.	Correction
(MHz)		(dBµV/m)	(dBµV/m)	(dB)	(°)	(m)		time (s)	(dB)
4960	1	51.35	74.00	-22.65	0.00	3.76	Vertical	0.10	8.77
5760	1	47.09	74.00	-26.91	174.00	1.75	Vertical	0.10	9.40
5762.5	1	47.22	74.00	-26.78	166.00	1.98	Vertical	0.10	9.40
6764.5	1	52.92	74.00	-21.08	58.00	1.50	Vertical	0.10	11.62
6769	1	52.48	74.00	-21.52	49.00	1.85	Vertical	0.10	11.60
7439.5	1	62.03	74.00	-11.97	329.00	1.73	Vertical	0.10	12.11
7440.5	1	62.16	74.00	-11.84	329.00	1.74	Vertical	0.10	12.11
8858	1	51.64	74.00	-22.36	30.00	3.85	Vertical	0.10	13.54
8859	1	51.51	74.00	-22.49	30.00	3.75	Vertical	0.10	13.54
12468	1	57.01	74.00	-16.99	217.00	2.00	Vertical	0.10	21.21
12470.5	1	57.16	74.00	-16.84	239.00	1.50	Vertical	0.10	21.22
12970	1	57.71	74.00	-16.29	0.00	1.49	Vertical	0.10	22.62
14175.5	2	57.87	74.00	-16.13	319.00	1.25	Horizontal	0.10	22.91
14177.5	2	58.00	74.00	-16.00	308.00	1.48	Horizontal	0.10	22.91

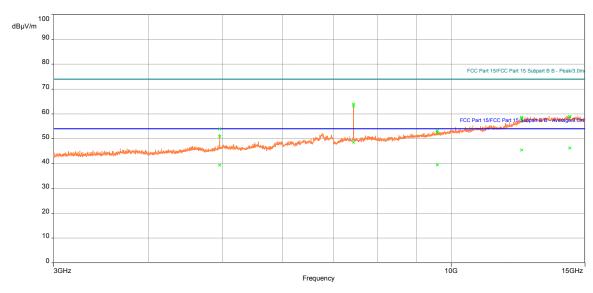
Note: Manual Scans were performed from 1-3 GHz and 15 - 40 GHz, no emissions were detected above the noise floor.

High Channel, Battery mode, Tx (Low data rate, above 1 GHz, Y axis)

Test Information:

Date and Time	03/23/2017
Client and Project Number	Zoll Medical G102894565
Engineer	Kouma Sinn
Temperature	19C
Humidity	8%
Atmospheric Pressure	1021mbar
Comments	Bluetooth, High, Y-axis

Graph:



Results:

Avg (PASS) (5)

Frequency	SR	Level	Limit	Margin	Azimuth	Height	Pol.	Meas.	Correction
(MHz)		(dBµV/m)	(dBµV/m)	(dB)	(°)	(m)		time (s)	(dB)
4959.5	2	39.31	54.00	-14.69	342.00	2.14	Horizontal	0.10	8.77
7439.5	2	48.54	54.00	-5.46	48.00	2.02	Horizontal	0.10	12.11
9592	2	39.41	54.00	-14.59	239.00	1.27	Horizontal	0.10	14.55
12376	2	45.43	54.00	-8.57	127.00	1.00	Horizontal	0.10	20.91
14316	2	46.18	54.00	-7.82	290.00	2.28	Horizontal	0.10	22.85

Peak (PASS) (5)

1 0011 (17100	- / \ - /								
Frequency	SR	Level	Limit	Margin	Azimuth	Height	Pol.	Meas.	Correction
(MHz)		(dBµV/m)	(dBµV/m)	(dB)	(°)	(m)		time (s)	(dB)
4959.5	2	53.87	74.00	-20.13	342.00	2.14	Horizontal	0.10	8.77
7439.5	2	63.86	74.00	-10.14	48.00	2.02	Horizontal	0.10	12.11
9592	2	52.37	74.00	-21.63	239.00	1.27	Horizontal	0.10	14.55
12376	2	58.06	74.00	-15.94	127.00	1.00	Horizontal	0.10	20.91
14316	2	58.93	74.00	-15.07	290.00	2.28	Horizontal	0.10	22.85

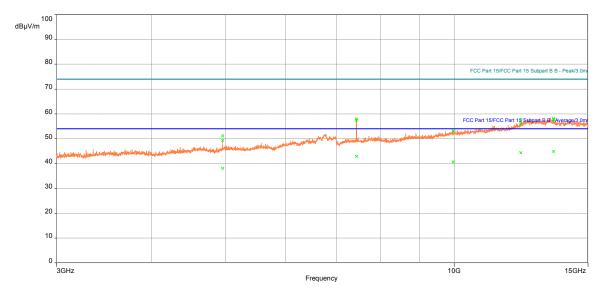
Note: Manual Scans were performed from 1-3 GHz and 15-40 GHz, no emissions were detected above the noise floor.

High Channel, Battery mode, Tx (Low data rate, above 1 GHz, Z axis)

Test Information:

Date and Time	03/27/2017
Client and Project Number	Zoll medical
Engineer	Naga Suryadevara
Temperature	19C
Humidity	26%
Atmospheric Pressure	1013mbars
Comments	Battery mode Tx Z axis high channel above 1 GHz

Graph:



Results:

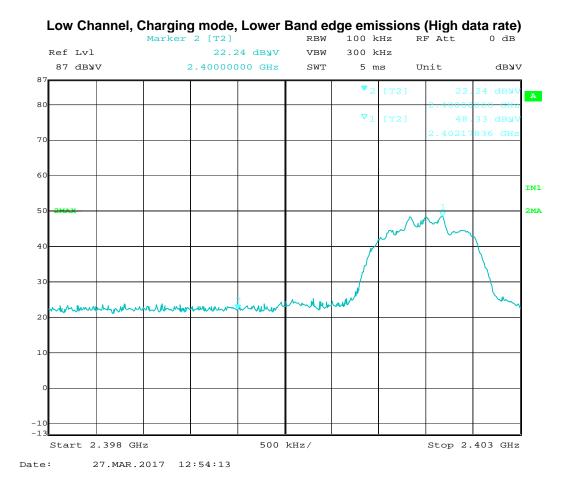
Avg (PASS) (5)

Frequency	SR	Level	Limit	Margin	Azimuth	Height	Pol.	Meas.	Correction
(MHz)		(dBµV/m)	(dBµV/m)	(dB)	(°)	(m)		time (s)	(dB)
4960	1	38.11	54.00	-15.89	139.00	1.85	Vertical	0.10	8.77
7439.5	1	42.86	54.00	-11.14	93.00	1.00	Vertical	0.10	12.11
9967	1	40.75	54.00	-13.25	0.00	1.74	Vertical	0.10	15.41
12238.5	1	44.33	54.00	-9.67	16.00	1.35	Vertical	0.10	20.52
13512.5	1	44.78	54.00	-9.22	75.00	1.84	Vertical	0.10	22.50

Peak (PASS) (5)

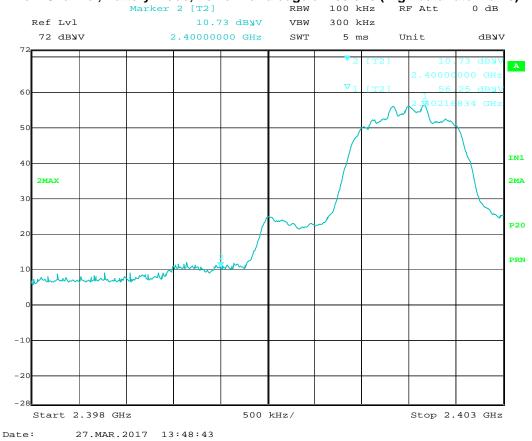
1 0011 (17100	, (°,								
Frequency	SR	Level	Limit	Margin	Azimuth	Height	Pol.	Meas.	Correction
(MHz)		(dBµV/m)	(dBµV/m)	(dB)	(°)	(m)		time (s)	(dB)
4960	1	51.20	74.00	-22.80	139.00	1.85	Vertical	0.10	8.77
7439.5	1	57.91	74.00	-16.09	93.00	1.00	Vertical	0.10	12.11
9967	1	52.94	74.00	-21.06	0.00	1.74	Vertical	0.10	15.41
12238.5	1	55.91	74.00	-18.09	16.00	1.35	Vertical	0.10	20.52
13512.5	1	57.61	74.00	-16.39	75.00	1.84	Vertical	0.10	22.50

Note: Manual Scans were performed from 1-3 GHz and 15-40 GHz, no emissions were detected above the noise floor.



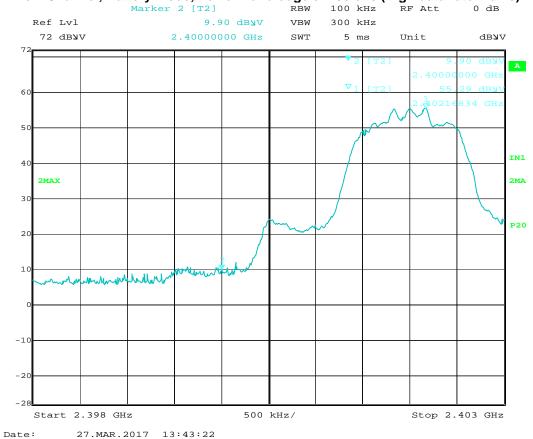
Emissions at lower band edge were 20 dB below the peak

Low Channel, Battery mode, Lower Band edge emissions (High data rate X axis)



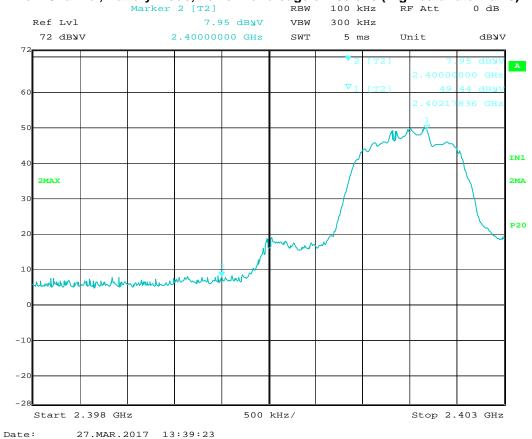
Emissions at lower band edge were 20 dB below the peak

Low Channel, Battery mode, Lower Band edge emissions (High data rate Y axis)



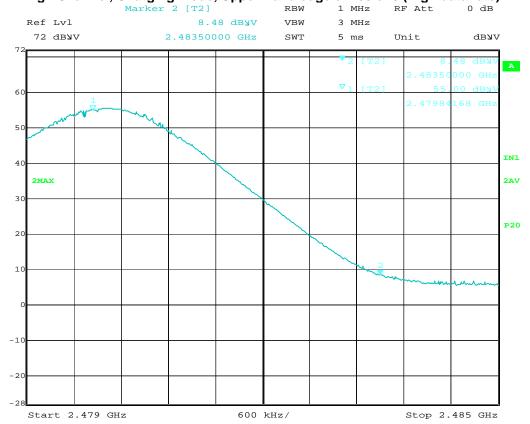
Emissions at lower band edge were 20 dB below the peak

Low Channel, Battery mode, Lower Band edge emissions (High data rate Z axis)



Emissions at lower band edge were 20 dB below the peak

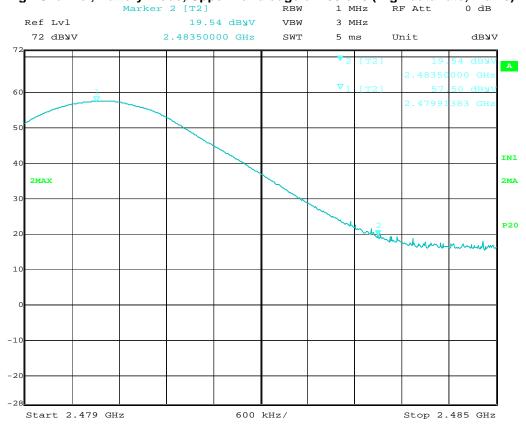
High Channel, Charging mode, Upper Band edge emissions (High data rate)



Date: 27.MAR.2017 13:07:44

	Ant.			Antenna	Cable	Pre-amp	Distance				
Detector	Pol.	Frequency	Reading	Factor	Loss	Factor	Factor	Net	Limit	Margin	Bandwidth
Туре	(V/H)	MHz	dB(uV)	dB(1/m)	dB	dB	dB	dB(uV/m)	dB(uV/m)	dB	
PK	V	2483.500	8.48	32.22	5.18	0.00	0.00	45.88	74.00	-28.12	1/3 MHz
AVG	V	2483.500	5.32	32.22	5.18	0.00	0.00	42.72	54.00	-11.28	1/3 MHz

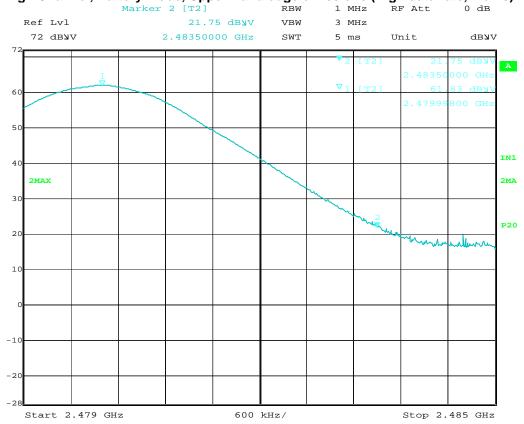
High Channel, Battery mode, Upper Band edge emissions (High data rate, X axis)



Date: 27.MAR.2017 13:14:14

	Ant.			Antenna	Cable	Pre-amp	Distance				
Detector	Pol.	Frequency	Reading	Factor	Loss	Factor	Factor	Net	Limit	Margin	Bandwidth
Type	(V/H)	MHz	dB(uV)	dB(1/m)	dB	dB	dB	dB(uV/m)	dB(uV/m)	dB	
PK	V	2483.500	19.54	32.22	5.18	0.00	0.00	56.94	74.00	-17.06	1/3 MHz
AVG	V	2483.500	8.77	32.22	5.18	0.00	0.00	46.17	54.00	-7.83	1/3 MHz

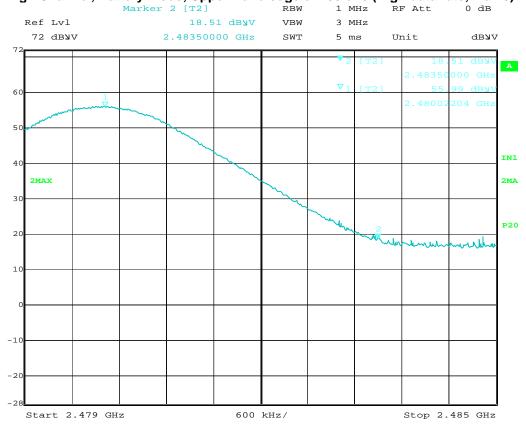
High Channel, Battery mode, Upper Band edge emissions (High data rate, Y axis)



Date: 27.MAR.2017 13:26:20

	Ant.			Antenna	Cable	Pre-amp	Distance				
Detector	Pol.	Frequency	Reading	Factor	Loss	Factor	Factor	Net	Limit	Margin	Bandwidth
Type	(V/H)	MHz	dB(uV)	dB(1/m)	dB	dB	dB	dB(uV/m)	dB(uV/m)	dB	
PK	V	2483.500	21.75	32.22	5.18	0.00	0.00	59.15	74.00	-14.85	1/3 MHz
AVG	V	2483.500	10.11	32.22	5.18	0.00	0.00	47.51	54.00	-6.49	1/3 MHz

High Channel, Battery mode, Upper Band edge emissions (High data rate, Z axis)



Date: 27.MAR.2017 13:34:00

	Ant.			Antenna	Cable	Pre-amp	Distance				
Detector	Pol.	Frequency	Reading	Factor	Loss	Factor	Factor	Net	Limit	Margin	Bandwidth
Type	(V/H)	MHz	dB(uV)	dB(1/m)	dB	dB	dB	dB(uV/m)	dB(uV/m)	dB	
PK	V	2483.500	18.51	32.22	5.18	0.00	0.00	55.91	74.00	-18.09	1/3 MHz
AVG	V	2483.500	9.22	32.22	5.18	0.00	0.00	46.62	54.00	-7.38	1/3 MHz

Intertek

Report Number: 102894565BOX-002 Issued: 04/14/2017

Test Date: 03/20/2017, 03/22/2017 Test Personnel: Naga Suryadevara 03/23/2017, 03/27/2017 Supervising/Reviewing Engineer: (Where Applicable) N/A FCC Part 15 Subpart C (15.247) Product Standard: Limit Applied: As specified in the plots (Section 12.4) Input Voltage: 120VAC 60Hz, Internal Battery Ambient Temperature: 20, 20, 19. 19 °C Pretest Verification w/ Ambient Signals or BB Source: BB Source Relative Humidity: 16, 20, 8, 26 % Atmospheric Pressure: __1007, 1000, 1021, 1013 mbars

Deviations, Additions, or Exclusions: None

Radiated Emissions (Digital Device and Receiver)

13.1 Method

Tests are performed in accordance with FCC Part 15 Subpart B.

TEST SITE: 10m ALSE

The 10m ALSE is 13m (Length) x 21m (Depth) x 10m (Height) with the effective size in terms of space from the tips of the absorber is 12m (Length) x 20m (Depth) x 8.5m (Height). This chamber achieves broadband performance using a unique arrangement of hybrid and ferrite tile absorber. This chamber has a built in 3m diameter turntable (Embedded type). The metal structure of the table makes electrical connection around the entire circumference of the turntable to the ground plane with a metal brush type connection. The turntable is located on one end of the chamber and the antennas are mounted 3 and 10 meters away at the other end of the chamber on the adjustable an Antenna Mast. The antenna mast is a non-conductive bore sighted type with remote control of antenna height and polarization. The Antenna Mast and the turntable can be remotely controlled through the controller located in the adjacent Control room. A Styrofoam table 80 cm high is used for table-top equipment.

Measurement Uncertainty

Measurement	Frequency Range	Expanded Uncertainty (k=2)	Ucispr
Radiated Emissions, 10m	30-1000 MHz	4.6 dB	6.3 dB
Radiated Emissions, 3m	30-1000 MHz	5.3 dB	6.3 dB
Radiated Emissions, 3m	1-6 GHz	4.5 dB	5.2 dB
Radiated Emissions, 3m	6-15 GHz	5.2 dB	5.5 dB
Radiated Emissions, 3m	15-18 GHz	5.0 dB	5.5 dB
Radiated Emissions, 3m	18-40 GHz	5.0 dB	5.5 dB

As shown in the table above our radiated emissions $U_{{\scriptscriptstyle lab}}$ is less than the corresponding $U_{{\scriptscriptstyle CISPR}}$ 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.

Non-Specific Radio Report Shell Rev. August 2015 Page 100 of 117

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 $dB\mu V/m$

RA = Receiver Amplitude (including preamplifier) in dBµV

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 = $52.0 \text{ dB}_{\mu}\text{V}$ AF = 7.4 dB/mCF = 1.6 dBAG = 29.0 dBFS = $32 \text{ dB}_{\mu}\text{V/m}$

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

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

Example:

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

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

Alternately, when BAT-EMC Emission Software is used, the "Level" includes all losses and gains and is compared directly in the "Margin" column to the "Limit". The "Correction" includes Antenna Factor, Preamp, and Cable Loss. These are already accounted for in the "Level" column.

Intertek

Report Number: 102894565BOX-002 Issued: 04/14/2017

13.2 Test Equipment Used:

Asset	Description	Manufacturer	Model	Serial	Cal Date	Cal Due
DAV004'	Weather Station	Davis Instruments	7400	PE80529A61A	05/02/2016	05/02/2017
145106'	Bilog Antenna (30MHz - 5GHz)	Sunol Sciences	JB5	A111003	05/03/2016	05/03/2017
145-410'	Cables 145-420 145-421 145-422 145-406	Huber + Suhner	10m Track A Cables	multiple	07/30/2016	07/30/2017
PRE10'	30-1000MHz pre-amp	ITS	PRE10	PRE10	12/16/2016	12/16/2017
ETS001'	1-18GHz DRG Horn Antenna	ETS Lindgren	3117	00143260	05/13/2016	05/13/2017
145-416'	Cables 145-420 145-423 145-424 145-408	Huber + Suhner	3m Track B cables	multiple	07/30/2016	07/30/2017
145014'	Preamplifier (1 GHz to 26.5 GHz)	Hewlett Packard	8449B	3008A00232	05/27/2016	05/27/2017
EMC04'	ANTENNA, RIDGED GUIDE, 18-40 GHZ	EMCO	3116	2090	09/14/2016	09/14/2017
REA004	3GHz High Pass Filter	Reactel, Inc	7HSX-3G/18G-S11	06-1	02/17/2017	02/17/2018
CBLSHF203'	Cable, SMA - SMA, 9kHz-40GHz, Cable Kit 4	Sucoflex (Huber Suhn	104PE	CBLSHF203	09/08/2016	09/08/2017
CBLSHF204'	Cable, SMA - SMA, 9kHz -40GHz, (Cable Kit 5)	Huber + Suhner	Sucoflex 102EA	234714001	08/27/2016	08/27/2017

Software Utilized:

Name	Manufacturer	Version		
BAT-EMC Emissions	Nexio	3.16.0.69		

13.3 Results:

The sample tested was found to Comply.

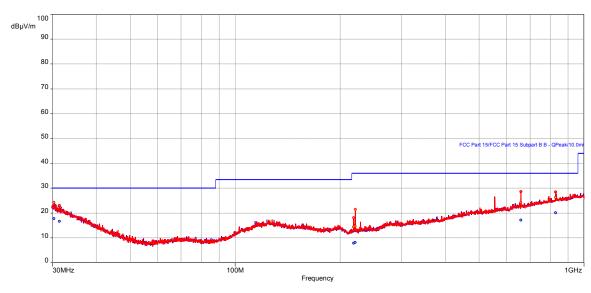
13.4 Plots/Data:

Battery mode, Rx, 30 - 1000 MHz

Test Information:

Date and Time	03/20/2017
Client and Project Number	Zoll medical G102894565
Engineer	Naga Suryadevara
Temperature	20C
Humidity	16%
Atmospheric Pressure	1007mbars
Comments	Battery mode Rx

Graph:



Results:

QuasiPeak (PASS) (6)

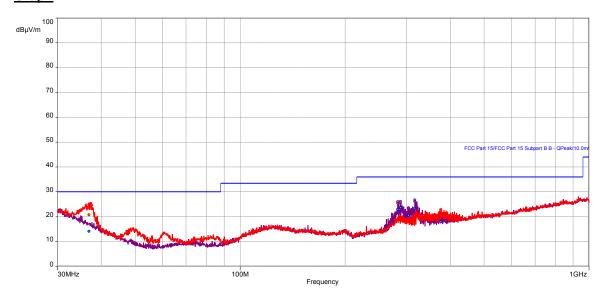
Frequency	SR	Level	Limit	Margin	Azimuth	Height	Pol.	Meas.	Correction
(MHz)		(dBµV/m)	(dBµV/m)	(dB)	(°)	(m)		time (s)	(dB)
30.24	1	17.68	30.00	-12.32	6.00	1.89	Vertical	0.10	-11.21
31.38	1	16.67	30.00	-13.33	301.00	1.90	Vertical	0.10	-12.21
218.76	1	7.81	36.00	-28.19	233.00	2.32	Vertical	0.10	-20.15
220.92	1	8.13	36.00	-27.87	221.00	2.31	Vertical	0.10	-20.06
659.1	1	17.16	36.00	-18.84	244.00	2.32	Vertical	0.10	-9.55
829.5	1	20.10	36.00	-15.90	47.00	3.08	Vertical	0.10	-6.54

Charging mode, Rx, 30 - 1000 MHz (XT 1505)

Test Information:

Date and Time	03/20/2017
Client and Project Number	Zoll medical G102894565
Engineer	Naga Suryadevara
Temperature	20C
Humidity	16%
Atmospheric Pressure	1007mbars
Comments	120VAC 60Hz Rx mode XT1505

Graph:



Results:

QuasiPeak (PASS) (6)

Frequency	SR	Level	Limit	Margin	Azimuth	Height	Pol.	Meas.	Correction
(MHz)		(dBµV/m)	(dBµV/m)	(dB)	(°)	(m)		time (s)	(dB)
36.9	1	14.08	30.00	-15.92	75.00	1.90	Vertical	0.10	-16.28
375.96	1	17.88	36.00	-18.12	221.00	3.69	Vertical	0.10	-15.62
283.2	2	22.88	36.00	-13.12	268.00	2.32	Horizontal	0.10	-17.44
288	2	23.57	36.00	-12.43	279.00	2.32	Horizontal	0.10	-17.52
304.02	2	20.55	36.00	-15.45	298.00	3.89	Horizontal	0.10	-17.25
316.8	2	23.43	36.00	-12.57	119.00	2.30	Horizontal	0.10	-16.85

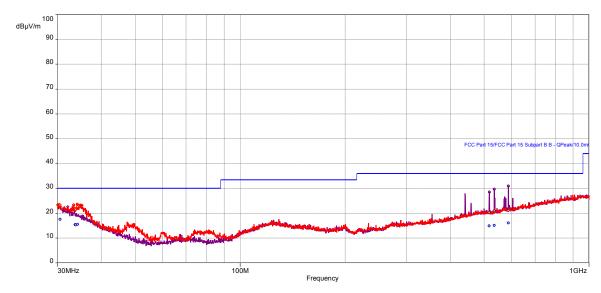
Non-Specific Radio Report Shell Rev. August 2015 Page 104 of 117

Charging mode, Rx, 30 - 1000 MHz (XT 1527)

Test Information:

Date and Time	03/20/2017
Client and Project Number	Zoll medical G102894565
Engineer	Naga Suryadevara
Temperature	20C
Humidity	16%
Atmospheric Pressure	1007mbars
Comments	120VAC 60Hz Rx mode XT1527

Graph:



Results:

QuasiPeak (PASS) (7)

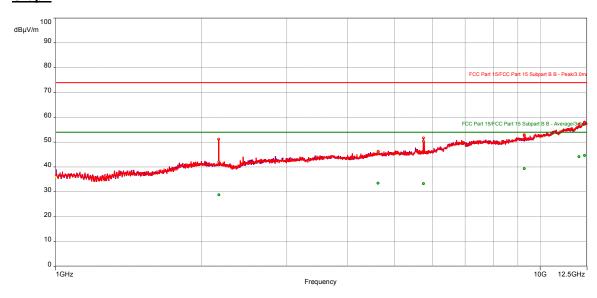
Frequency	SR	Level	Limit	Margin	Azimuth	Height	Pol.	Meas.	Correction
(MHz)		(dBµV/m)	(dBµV/m)	(dB)	(°)	(m)		time (s)	(dB)
30.48	1	17.56	30.00	-12.44	200.00	2.90	Vertical	0.10	-11.44
33.66	1	15.41	30.00	-14.59	334.00	1.46	Vertical	0.10	-13.83
33.78	1	15.32	30.00	-14.68	18.00	1.92	Vertical	0.10	-13.93
34.2	1	15.47	30.00	-14.53	65.00	1.00	Vertical	0.10	-14.26
517.32	2	14.89	36.00	-21.11	120.00	2.74	Horizontal	0.10	-12.09
534.96	2	15.04	36.00	-20.96	29.00	2.51	Horizontal	0.10	-11.81
587.04	2	16.05	36.00	-19.95	0.00	1.45	Horizontal	0.10	-10.92

Battery mode, Rx, 1 - 12.5 GHz

Test Information:

Date and Time	03/21/2017
Client and Project Number	Zoll medical G102894565
Engineer	Naga Suryadevara
Temperature	20C
Humidity	18%
Atmospheric Pressure	1001mbars
Comments	Bluetooth Rx mode Battery

Graph:



Results:

Avg (PASS) (6)

Frequency	SR	Level	Limit	Margin	Azimuth	Height	Pol.	Meas.	Correction
(MHz)		(dBµV/m)	(dBµV/m)	(dB)	(°)	(m)		time (s)	(dB)
2174	1	28.78	54.00	-25.22	137.00	1.36	Vertical	0.10	3.13
4631	1	33.49	54.00	-20.51	53.00	3.99	Vertical	0.10	8.27
5747.5	1	33.28	54.00	-20.72	35.00	3.42	Vertical	0.10	9.41
9284	1	39.32	54.00	-14.68	37.00	2.29	Vertical	0.10	14.06
12029	1	44.16	54.00	-9.84	300.00	2.50	Vertical	0.10	19.91
12355.5	1	44.66	54.00	-9.34	217.00	3.16	Vertical	0.10	20.86

Peak (PASS) (6)

Frequency	SR	Level	Limit	Margin	Azimuth	Height	Pol.	Meas.	Correction
(MHz)		(dBµV/m)	(dBµV/m)	(dB)	(°)	(m)		time (s)	(dB)
2174	1	42.04	74.00	-31.96	137.00	1.36	Vertical	0.10	3.13
4631	1	45.72	74.00	-28.28	53.00	3.99	Vertical	0.10	8.27
5747.5	1	50.31	74.00	-23.69	35.00	3.42	Vertical	0.10	9.41
9284	1	52.56	74.00	-21.44	37.00	2.29	Vertical	0.10	14.06
12029	1	57.15	74.00	-16.85	300.00	2.50	Vertical	0.10	19.91
12355.5	1	57.98	74.00	-16.02	217.00	3.16	Vertical	0.10	20.86

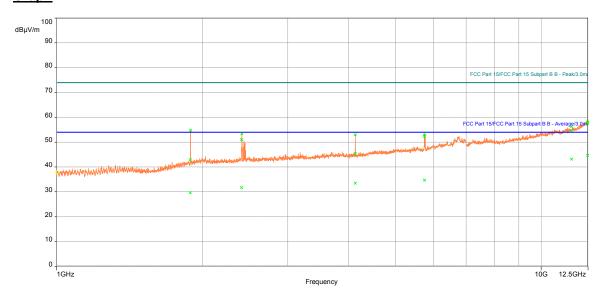
Non-Specific Radio Report Shell Rev. August 2015 Page 106 of 117

Bluetooth charging, Rx Mode, Cell XT 1505 (1-12.5 GHz)

Test Information:

Date and Time	03/22/2017
Client and Project Number	Zoll Medical G102894565
Engineer	Kouma Sinn
Temperature	20C
Humidity	20%
Atmospheric Pressure	1000mbar
Comments	Bluetooth Charging, Rx Mode, Cell XT 1505

Graph:



Results:

Avg (PASS) (6)

Frequency	Lével	Limit	Margin	Azimuth	Height (m)	Pol.	Meas.	Correction
(MHz)	(dBµV/m)	(dBµV/m)	(dB)	(°)			time (s)	(dB)
1887.5	29.67	54.00	-24.33	127.00	1.85	Vertical	0.10	2.43
2409	31.71	54.00	-22.29	105.00	2.02	Vertical	0.10	3.99
4136	33.50	54.00	-20.50	255.00	2.27	Vertical	0.10	7.12
5747.5	34.59	54.00	-19.41	149.00	4.00	Vertical	0.10	9.41
11562	43.17	54.00	-10.83	37.00	2.43	Vertical	0.10	18.74
12473.5	44.65	54.00	-9.35	75.00	1.35	Vertical	0.10	21.23

Peak (PASS) (6)

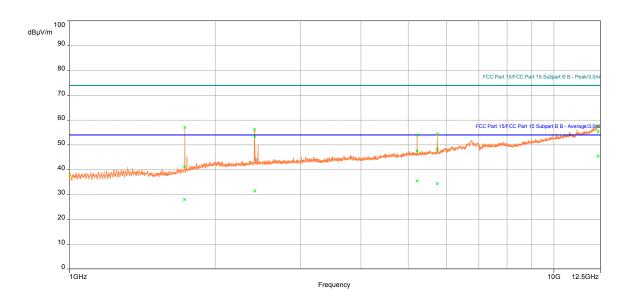
Frequency	Level	Limit	Margin	Azimuth	Height (m)	Pol.	Meas.	Correction
(MHz)	(dBµV/m)	(dBµV/m)	(dB)	(°)			time (s)	(dB)
1887.5	42.87	74.00	-31.13	127.00	1.85	Vertical	0.10	2.43
2409	51.03	74.00	-22.97	105.00	2.02	Vertical	0.10	3.99
4136	45.36	74.00	-28.64	255.00	2.27	Vertical	0.10	7.12
5747.5	52.27	74.00	-21.73	149.00	4.00	Vertical	0.10	9.41
11562	56.29	74.00	-17.71	37.00	2.43	Vertical	0.10	18.74
12473.5	57.99	74.00	-16.01	75.00	1.35	Vertical	0.10	21.23

Non-Specific Radio Report Shell Rev. August 2015 Page 107 of 117

Bluetooth Charging, Rx mode, 1 – 12.5 GHz (XT 1527)

Test Information:

Date and Time	03/22/2017
Client and Project Number	Zoll Medical G102894565
Engineer	Kouma Sinn
Temperature	20C
Humidity	20%
Atmospheric Pressure	1000mbar
Comments	Bluetooth Charging, Rx Mode, Cell XT 1527



Avg (PASS) (5)

,g (. , .ee)	, (0)								
Frequency	SR	Level	Limit	Margin	Azimuth	Height	Pol.	Meas.	Correction
(MHz)		(dBµV/m)	(dBµV/m)	(dB)	(°)	(m)		time (s)	(dB)
1729.5	1	27.99	54.00	-26.01	166.00	1.36	Vertical	0.10	0.64
2413	1	31.42	54.00	-22.58	30.00	1.00	Vertical	0.10	4.00
5219.5	1	35.51	54.00	-18.49	329.00	4.00	Vertical	0.10	9.13
5746.5	1	34.35	54.00	-19.65	49.00	4.00	Vertical	0.10	9.41
12339.5	1	45.42	54.00	-8.58	30.00	2.75	Vertical	0.10	20.82

Peak (PASS) (5)

Frequency	SR	Level	Limit	Margin	Azimuth	Height	Pol.	Meas.	Correction
(MHz)		(dBµV/m)	(dBµV/m)	(dB)	(°)	(m)		time (s)	(dB)
1729.5	1	41.22	74.00	-32.78	166.00	1.36	Vertical	0.10	0.64
2413	1	53.37	74.00	-20.63	30.00	1.00	Vertical	0.10	4.00
5219.5	1	47.51	74.00	-26.49	329.00	4.00	Vertical	0.10	9.13
5746.5	1	48.06	74.00	-25.94	49.00	4.00	Vertical	0.10	9.41
12339.5	1	57.70	74.00	-16.30	30.00	2.75	Vertical	0.10	20.82

Non-Specific Radio Report Shell Rev. August 2015 Page 108 of 117

Intertek

Report Number: 102894565BOX-002 Issued: 04/14/2017

Test Date: 03/20/2017, 03/21/2017 Test Personnel: Naga Suryadevara N 5 03/22/2017 Supervising/Reviewing Engineer: (Where Applicable) N/A Product Standard: FCC Part 15 Subpart B Limit Applied: Class A Input Voltage: 120VAC 60Hz, Internal Battery Ambient Temperature: 20, 20, 20 °C Pretest Verification w/ Ambient Signals or BB Source: BB Source Relative Humidity: 16, 18, 20 % Atmospheric Pressure: _ 1007, 1001, 1000 mbars

14 AC Mains Conducted Emissions

14.1 Method

Tests are performed in accordance with FCC Part 15 Subpart C and FCC Part 15 Subpart B.

TEST SITE: EMC Lab

<u>The EMC Lab</u> 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.

Measurement Uncertainty

Measurement	Frequency Range	Expanded Uncertainty (k=2)	Ucispr
AC Line Conducted			
Emissions	150 kHz - 30 MHz	2.8dB	3.4dB
Telco Port Emissions	150 kHz - 30 MHz	3.2dB	5.0dB

As shown in the table above our conducted emissions $U_{\it lab}$ is less than the corresponding $U_{\it CISPR}$ 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 following is how net line-conducted readings were determined:

NF = RF + LF + CF + AF

Where NF = Net Reading in $dB\mu V$

RF = Reading from receiver in $dB\mu V$

LF = LISN or ISN Correction Factor in dB

CF = Cable Correction Factor in dB

AF = Attenuator Loss Factor in dB

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

UF =
$$10^{(NF/20)}$$
 where UF = Net Reading in μ V
NF = Net Reading in dB μ V

Example:

NF = RF + LF + CF + AF =
$$28.5 + 0.2 + 0.4 + 20.0 = 49.1 \text{ dB}\mu\text{V}$$

UF = $10^{(49.1 \text{ dB}\mu\text{V} / 20)} = 285.1 \text{ uV/m}$

Alternately, when C5 Software is used, the "Level" includes all losses and gains and is compared directly in the "Margin" column to the "Limit". "TF" is the Transducer Factor; in this case LISN or ISN loss.

Intertek

Report Number: 102894565BOX-002 Issued: 04/14/2017

14.2 Test Equipment Used:

Asset	Description	Manufacturer	Model	Serial	Cal Date	Cal Due
DAV002'	Weather Station	Davis Instruments	7400	PE80519A93	06/01/2016	06/01/2017
ROS002'	9kHz to 3GHz EMI Test Receiver	Rohde & Schwartz	ESCI 1166.5950K03	100067	07/29/2016	07/29/2017
DS22'	Attenuator, 20dB	Mini Circuits	20dB, 50 ohm	DS22	09/08/2016	09/08/2017
CBLBNC2012-4'	50 Ohm Coaxial Cable	Pomona	RG58C/U	CBLBCN2012-4	03/21/2016	03/21/2017
LISN31'	LISN - CISPR16 Compliant 9kHz-30MHz	Com-Power	LI-215A	191957	03/14/2016	03/14/2017

Software Utilized:

Name	Manufacturer	Version
Compliance 5	Teseq	5.26.46.46

14.3 Results:

The sample tested was found to Comply.

14.4 Plots/Data:

120VAC 60Hz, Rx mode, XT 1505

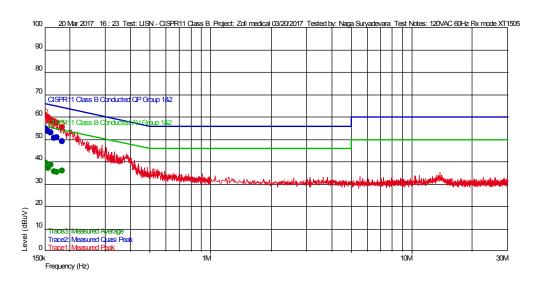
Test Information Test Details Test: User Entry LISN - CISPR11 Class B Zoll medical 03/20/2017 120VAC 60Hz Rx mode XT1505 Project: Test Notes:

Temperature:

9% 1004 mbars Naga Suryadevara 20 Mar 2017 16 : 23 Humidity: Tested by: Test Started:

Additional Information

Prescan Emission Graph



Measured Peak Value

Measured Quasi Peak Value Measured Average Value

Maximum Value of Mast and Turntable

Swept Peak Data

Swept Quasi Peak Data

Swept Average Data

Emissions Test Data

Trace2: Measured Quasi Peak

Frequency(Hz)	Level(dBuV)	TF	PA+CL	Limit(dBuV)	Margin(dBuV)	RBW(Hz)	Comment	LINE
184.0 k	49.03	0.053	20.592	64.303	-15.28	9 k		L2
167.0 k	50.63	0.066	20.593	65.108	-14.48	9 k		L2
172.95 k	50.93	0.062	20.593	64.818	-13.89	9 k		L3
161.05 k	52.98	0.071	20.594	65.410	-12.43	9 k		L2
155.95 k	53.59	0.075	20.594	65.677	-12.08	9 k		L3
151.7 k	54.75	0.079	20.594	65.906	-11.16	9 k		L2

Trace3.	Measured	Average
maccs.	Mcasul cu	Average

Frequency(Hz)	Level(dBuV)	TF	PA+CL	Limit(dBuV)	Margin(dBuV)	RBW(Hz)	Comment	LINE
167.0 k	35.72	0.066	20.593	55.108	-19.38	9 k		L2
172.95 k	35.46	0.062	20.593	54.818	-19.36	9 k		L3
155.95 k	37.22	0.075	20.594	55.677	-18.45	9 k		L3
184.0 k	36.07	0.053	20.592	54.303	-18.24	9 k		L2
161.05 k	38.64	0.071	20.594	55.410	-16.77	9 k		L2
151.7 k	39.59	0.079	20.594	55.906	-16.32	9 k		L2

120VAC 60Hz, Rx mode, XT1527

Test Information

 Test Details
 User Entry

 Test:
 LISN - FCC15 Class B

 Project:
 Zoll medical 03/28/2017

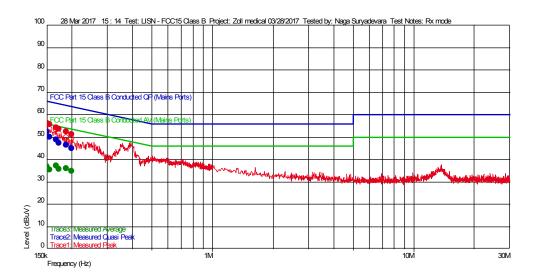
 Test Notes:
 Rx mode

 Tested by:
 Naga Suryadevara

 Test Started:
 28 Mar 2017 15:14

Additional Information

Prescan Emission Graph



Measured Peak Value

Measured Quasi Peak Value

Measured Average Value

Maximum Value of Mast and Turntable

__ Swept Peak Data

__ Swept Quasi Peak Data

__ Swept Average Data

Emissions Test Data

Trace2: Measured Quasi Peak
Frequency(Hz) Level(dBuV)

Frequency(Hz)	Level(dBuV)	TF	PA+CL	Limit(dBuV)	Margin(dBuV)	RBW(Hz)	Comment	LINE
199.3 k	45.05	0.041	20.591	63.640	-18.58	9 k		N
187.4 k	46.53	0.050	20.592	64.151	-17.62	9 k		N
172.1 k	47.29	0.062	20.593	64.858	-17.57	9 k		N
167.0 k	48.83	0.066	20.593	65.108	-16.28	9 k		N
155.1 k	50.09	0.076	20.594	65.722	-15.64	9 k		N
150.0 k	52.32	0.080	20.594	66.000	-13.68	9 k		N

Traco3.	Measured	Average
maces:	weasured	Average

Frequency(Hz)	Level(dBuV)	TF	PA+CL	Limit(dBuV)	Margin(dBuV)	RBW(Hz)	Comment	LINE
155.1 k	35.39	0.076	20.594	55.722	-20.34	9 k		N
172.1 k	35.60	0.062	20.593	54.858	-19.26	9 k		N
150.0 k	36.85	0.080	20.594	56.000	-19.15	9 k		N
199.3 k	34.93	0.041	20.591	53.640	-18.71	9 k		N
187.4 k	35.87	0.050	20.592	54.151	-18.28	9 k		N
167.0 k	37.17	0.066	20.593	55.108	-17.94	9 k		N

120VAC 60Hz, Tx mode, XT1505

Test Information

 Test Details
 User Entry

 Test:
 LISN - CISPR11 Class B

 Project:
 Zoll medical 03/20/2017

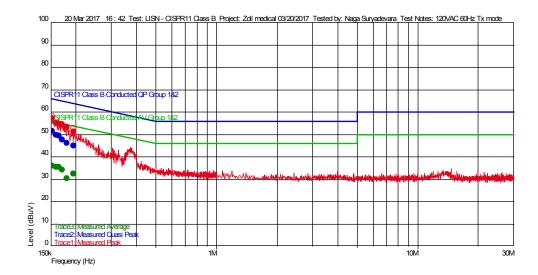
 Test Notes:
 120VAC 60Hz Tx mode XT1505

 Temperature:
 22C

Humidity: 9% 1004 mbars
Tested by: Naga Suryadevara
Test Started: 20 Mar 2017 16:42

Additional Information

Prescan Emission Graph



Measured Peak ValueMeasured Quasi Peak Value

Measured Average Value

Maximum Value of Mast and Turntable

__ Swept Peak Data __ Swept Quasi Peak Data

__ Swept Average Data

Emissions Test Data

Trace2: Measured Quasi Peak

Frequency(Hz)	Level(dBuV)	TF	PA+CL	Limit(dBuV)	Margin(dBuV)	RBW(Hz)	Comment	LINE
195.05 k	44.81	0.044	20.592	63.819	-19.01	9 k		L2
181.45 k	46.05	0.055	20.592	64.419	-18.37	9 k		L3
171.25 k	47.68	0.063	20.593	64.900	-17.22	9 k		L2
165.3 k	49.46	0.068	20.593	65.193	-15.73	9 k		L2
160.2 k	49.84	0.072	20.594	65.454	-15.61	9 k		L2
152.55 k	51.49	0.078	20.594	65.860	-14.37	9 k		L2

Trace3.	Measured	Average

	· o. ago							
Frequency(Hz)	Level(dBuV)	TF	PA+CL	Limit(dBuV)	Margin(dBuV)	RBW(Hz)	Comment	LINE
181.45 k	30.37	0.055	20.592	54.419	-24.05	9 k		L3
195.05 k	32.40	0.044	20.592	53.819	-21.42	9 k		L2
171.25 k	34.13	0.063	20.593	54.900	-20.77	9 k		L2
160.2 k	35.25	0.072	20.594	55.454	-20.21	9 k		L2
165.3 k	35.23	0.068	20.593	55.193	-19.96	9 k		L2
152.55 k	35.90	0.078	20.594	55.860	-19.96	9 k		L2

120VAC 60Hz, Tx mode, XT1527

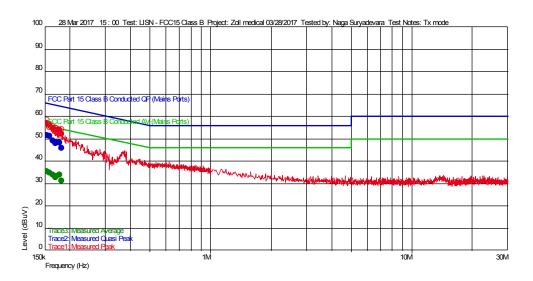
Test Information

Test Details
Test:
Project:
Test Notes:
Tested by:
Test Started:

User Entry LISN - FCC15 Class B Zoll medical 03/28/2017 Tx mode XT1527 Naga Suryadevara 28 Mar 2017 15:00

Additional Information

Prescan Emission Graph



- Measured Peak Value
- Measured Quasi Peak Value
- Measured Average ValueMaximum Value of Mast and Turntable
- __ Swept Peak Data
- __ Swept Quasi Peak Data
- __ Swept Average Data

Emissions Test Data

Trace2: Measured Quasi Peak
Frequency(Hz) Level(dBuV)

182.3 k 45.80 0.054 20.592 64.380 -18.58 9 k 169.55 k 47.87 0.064 20.593 64.982 -17.11 9 k 172.1 k 48.22 0.062 20.593 64.858 -16.64 9 k 178.05 k 48.21 0.058 20.593 64.576 -16.36 9 k 165.3 k 49.22 0.068 20.593 65.193 -15.97 9 k 159.35 k 51.08 0.073 20.594 65.498 -14.42 9 k	N N L1 N L1
154.25 k 51.60 0.077 20.594 65.768 -14.17 9 k	N

Trace3: Measured Average

Frequency(Hz) 182.3 k 169.55 k 172.1 k 165.3 k 178.05 k 159.35 k	Level(dBuV) 31.32 32.67 33.36 33.78 33.78 34.77	TF 0.054 0.064 0.062 0.068 0.058 0.073	PA+CL 20.592 20.593 20.593 20.593 20.593 20.594	Limit(dBuV) 54.380 54.982 54.858 55.193 54.576 55 498	Margin(dBuV) -23.06 -22.31 -21.50 -21.42 -20.79	RBW(Hz) 9 k 9 k 9 k 9 k 9 k	Comment	LINE N N N N L1
159.35 k 154.25 k	35.76 34.77 35.42	0.058 0.073 0.077	20.593 20.594 20.594	55.498 55.768	-20.79 -20.72 -20.35	9 k 9 k 9 k		L1 N

Intertek

Report Number: 102894565BOX-002 Issued: 04/14/2017

Test Personnel: Naga Suryadevara N 5 Test Date: 03/20/2017, 03/28/2017 Supervising/Reviewing Engineer: N/A (Where Applicable) FCC Part 15 Subpart C FCC Part 15 Subpart B Product Standard: Limit Applied: Class B 120VAC 60Hz Input Voltage: Pretest Verification w/ Ambient Temperature: 22, 20 °C Ambient Signals or BB Source: Signal generator Relative Humidity: 09, 17 % Atmospheric Pressure: 1004, 1003 mbars

Deviations, Additions, or Exclusions: None

Intertek

Report Number: 102894565BOX-002 Issued: 04/14/2017

15 Revision History

Revision	Date	Report Number	Prepared	Reviewed	Notes
Level			Ву	Ву	
0	04/14/2017	102894565BOX-002	N.5	KPS 43	Original Issue