

RF TEST REPORT



Report No.: FCC IC_RF_SL16020201_PDO_002
Supersede Report No.:

Applicant	:	Podo Labs, Inc.
Product Name	:	Consumer Bluetooth Camera
Model No.	:	PO-00-XX
Test Standard	:	47 CFR 15.247 RSS-247 Issue 1.0, May 2015
Test Method	:	ANSI C63.10: 2013 RSS-Gen Issue 4, Nov 2014 FCC Public Notice DA 00-705
FCC ID	:	2ADEY-A96
IC ID	:	21139-A96
Dates of test	:	02/10/2016
Issue Date	:	02/18/2016
Test Result	:	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail
Equipment complied with the specification [X] Equipment did not comply with the specification []		

This Test Report is Issued Under the Authority of:

Gary Chou	Chen Ge
Test Engineer	Engineer Reviewer

Issued By:
SIEMIC Laboratories
775 Montague Expressway, Milpitas, 95035 CA



775 Montague Expressway, Milpitas, CA 95035, USA • Phone: (+1) 408 526 1188 • Facsimile (+1) 408 526 1088

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Laboratory Introduction

SIEMIC, headquartered in the heart of Silicon Valley, with superior facilities in US and Asia, is one of the leading independent testing and certification facilities providing customers with one-stop shop services for Compliance Testing and Global Certifications.



In addition to testing and certification, SIEMIC provides initial design reviews and compliance management throughout a project. Our extensive experience with China, Asia Pacific, North America, European, and International compliance requirements, assures the fastest, most cost effective way to attain regulatory compliance for the global markets.

Accreditations for Conformity Assessment

Country/Region	Accreditation Body	Scope
USA	FCC, A2LA	EMC, RF/Wireless, Telecom
Canada	IC, A2LA, NIST	EMC, RF/Wireless, Telecom
Taiwan	BSMI, NCC, NIST	EMC, RF, Telecom, Safety
Hong Kong	OFTA, NIST	RF/Wireless, Telecom
Australia	NATA, NIST	EMC, RF, Telecom, Safety
Korea	KCC/RRR, NIST	EMI, EMS, RF, Telecom, Safety
Japan	VCCI, JATE, TELEC, RFT	EMI, RF/Wireless, Telecom
Mexico	NOM, COFETEL, Caniety	Safety, EMC, RF/Wireless, Telecom
Europe	A2LA, NIST	EMC, RF, Telecom, Safety
Israel	MOC, NIST	EMC, RF, Telecom, Safety

Accreditations for Product Certifications

Country	Accreditation Body	Scope
USA	FCC TCB, NIST	EMC, RF, Telecom
Canada	IC FCB, NIST	EMC, RF, Telecom
Singapore	iDA, NIST	EMC, RF, Telecom
EU	NB	EMC & R&TTE Directive
Japan	MIC (RCB 208)	RF, Telecom
Hong Kong	OFTA (US002)	RF, Telecom

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1 Report Revision History

Report No.	Report Version	Description	Issue Date
FCC IC_RF_SL16020201_PDO_002	None	Original	02/18/2016

2 Executive Summary

The purpose of this test program was to demonstrate compliance of following product

Company: Podo Labs, Inc.
Product: Consumer Bluetooth Camera
Model: PO-00-XX

against the current Stipulated Standards. The specified model product stated above has demonstrated compliance with the Stipulated Standard listed on 1st page.

3 Customer information

Applicant Name	:	Podo Labs, Inc
Applicant Address	:	582 Market Street Suite 2100 San Francisco, CA 94104 USA
Manufacturer Name	:	PCH International
Manufacturer Address	:	Block D&E, 4/F, Du Shi Ming Yuan, Jintang Street Cai Wu Wei Luo Hu District Shenzhen, Guangdong P.R.China 518010

4 Test site information

Lab performing tests	SIEMIC Laboratories
Lab Address	775 Montague Expressway, Milpitas, CA 95035
FCC Test Site No.	881796
IC Test Site No.	4842D-2
VCCI Test Site No.	A0133

5 Modification

Index	Item	Description	Note
-	-	-	-

6 EUT Information

6.1 EUT Description

Product Name	Consumer Bluetooth Camera
Model No.	Podo PO-00-XX
Trade Name	Podo Labs, Inc.
Serial No.	N/A
Host Model No.	N/A
Input Power	5VDC
Power Adapter SN	N/A
Product Hardware version	06
Product Software version	06
Radio Hardware version	N/A
Radio Software version	N/A
Test Software version	N/A
Date of EUT received	2016-02-05
Equipment Class/ Category	DSS
Clock Frequencies	N/A
Port/Connectors	USB

6.2 Spec for BT Radio

Radio Type	Bluetooth (Ver4.0+EDR)
Operating Frequency	2402MHz-2480MHz
Modulation	FHSS (BDR, EDR)
Channel Spacing	1MHz (BDR, EDR)
Antenna Type	PCB ANTENNA
Antenna Gain	- 4.1 dBi
Antenna Connector Type	N/A
Remarks	N/A

Channel List

Type	Channel No.	Frequency (MHz)
Bluetooth(BRD) 2402-2480MHz	0	2402
	39	2441
	78	2480
Bluetooth(EDR) 2402-2480MHz	0	2402
	39	2441
	78	2480

6.3 EUT test modes/configuration Description

Mode	Note
Bluetooth	BDR (GFSK)
Bluetooth	EDR (8-DPSK)

6.4 EUT Photos-External



EUT – Front View (Closed Position)



EUT – Rear View (Closed Position)



EUT – Left View (Closed Position)



EUT – Right View (Closed Position)



EUT – Top View (Closed Position)



EUT – Bottom View (Closed Position)



EUT – Front View (Open Position)



EUT – Rear View (Open Position)



EUT – Left View (Open Position)



EUT – Right View (Open Position)



EUT – Top View (Open Position)



EUT – Bottom View (Open Position)



EUT – USB Cable

6.5 EUT Photos - Internal



EUT – Open Case View



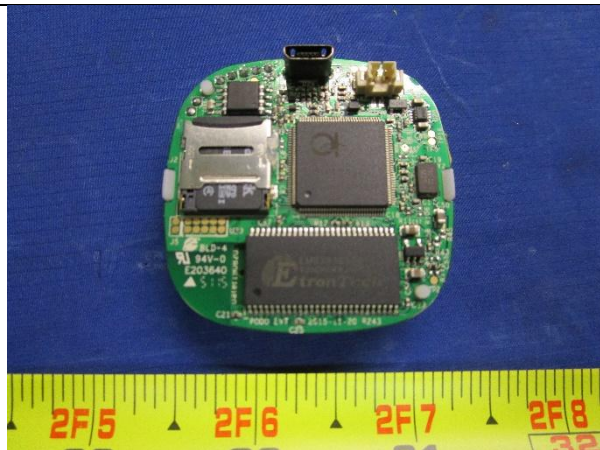
EUT – Battery – Top View



EUT – Battery – Bottom View



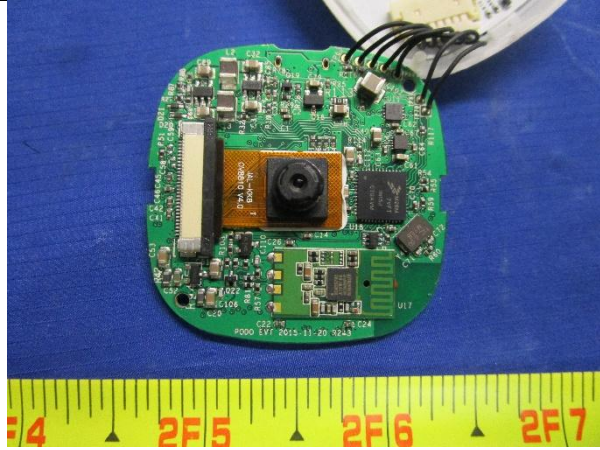
EUT – Battery – Label View



EUT – Main Assembly – Rear View



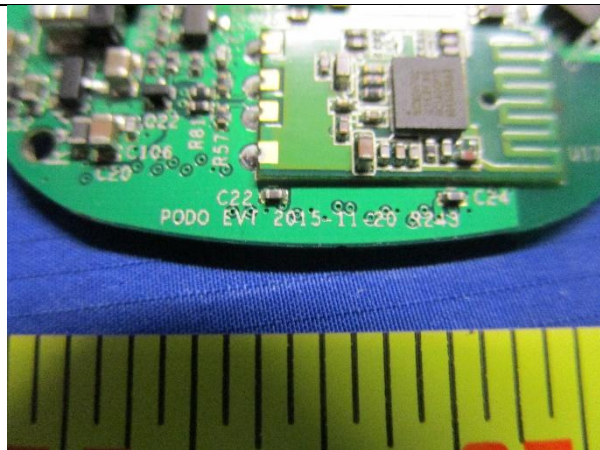
EUT – Main Assembly – Front View



EUT - Main Board - Front View



EUT - Main Board - Rear View



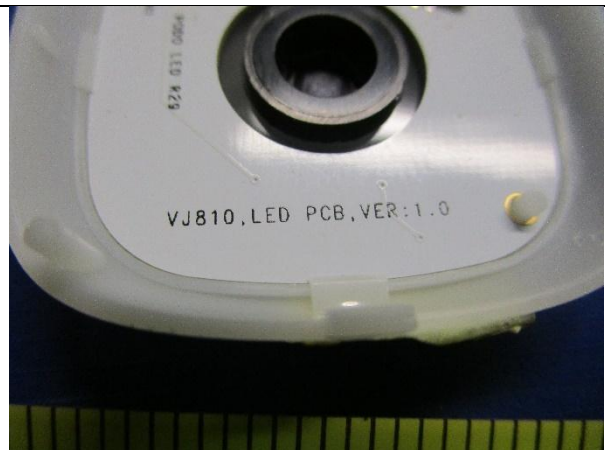
EUT - Main Board - Label View



EUT - LED Board - Front View



EUT - LED Board - Rear Side

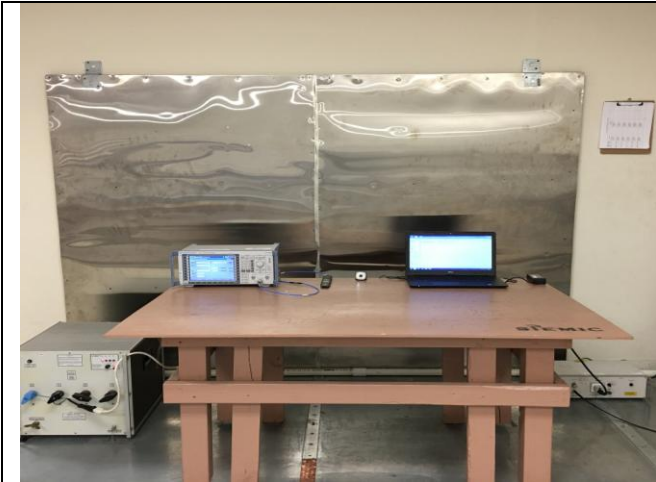


EUT - LED Board - Label View 1



EUT – LED Board – Label View 2

6.6 EUT Test Setup Photos



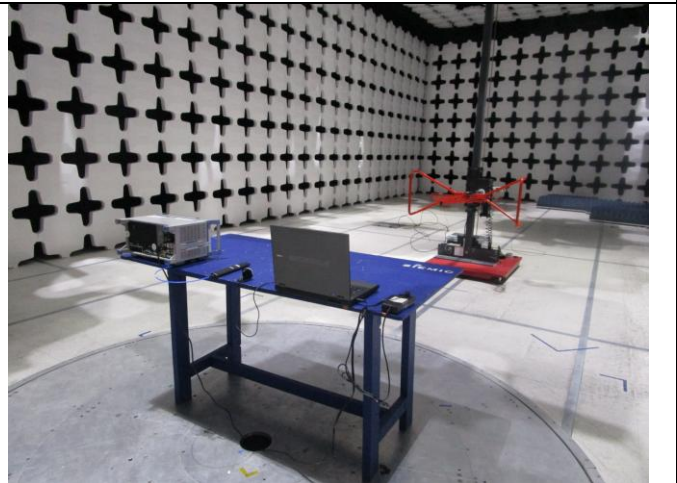
AC Line Conducted Emissions – Front View



AC Line Conducted Emissions – Rear View



Radiated Emissions (<1GHz) – Front View



Radiated Emissions (<1GHz) – Rear View



Radiated Emissions (>1GHz) – Front View



Radiated Emissions (>1GHz) – Rear View

7 Supporting Equipment/Software and cabling Description

7.1 Supporting Equipment

Item	Supporting Equipment Description	Model	Serial Number	Manufacturer	Note
1	Laptop	P05F Latitude E5510	N/A	Dell	-
2	Bluetooth Tester	CBT	N/A	Rohde & Schwarz	-

7.2 Cabling Description

Name	Connection Start		Connection Stop		Length / shielding Info		Note
	From	I/O Port	To	I/O Port	Length (m)	Shielding	
							-

7.3 Test Software Description

Test Item	Software	Description

8 Test Summary

Test Item	Test standard		Test Method/Procedure		Pass / Fail
Restricted Band of Operation	FCC	15.205	FCC	ANSI C63.10: 2013 Public Notice DA 00-705	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> N/A
	IC	RSS Gen 8.10		RSS Gen Issue 4: 2014	
AC Conducted Emissions Voltage	FCC	15.207(a)	FCC	ANSI C63.10: 2013	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> N/A
	IC	RSS Gen 8.8		RSS Gen Issue 4: 2014	

DSS Band Requirement

Test Item	Test standard		Test Method/Procedure		Pass / Fail
Channel Separation	FCC	15.247 (a)(1)	FCC	Public Notice DA 00-705	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> N/A
	IC	RSS247 (5.1.5)	IC	-	
20dB Occupied Bandwidth	FCC	15.247(a)(1)	FCC	Public Notice DA 00-705	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> N/A
	IC	RSS247 (5.1.2)	IC	-	
99% Occupied Bandwidth	FCC	15.247(a)(2)	FCC		<input checked="" type="checkbox"/> Pass <input type="checkbox"/> N/A
	IC	RSS Gen 6.6	IC	RSS Gen Issue 4: 2014 -	
Number of Hopping Channels	FCC	15.247(a)(1)	FCC	Public Notice DA 00-705	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> N/A
	IC	RSS247 (5.1.5)	IC	-	
Band Edge and Radiated Spurious Emissions	FCC	15.247(d)	FCC	Public Notice DA 00-705	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> N/A
	IC	RSS247(5.5)	IC	-	
Time of Occupancy	FCC	15.247(a)(1)	FCC	Public Notice DA 00-705	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> N/A
	IC	RSS247 (5.1.5)	IC	-	
Output Power	FCC	15.247(b)	FCC	Public Notice DA 00-705	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> N/A
	IC	RSS247 (5.4.2)	IC	-	
Receiver Spurious Emissions	FCC	15.247(d)	FCC	-	<input type="checkbox"/> Pass <input checked="" type="checkbox"/> N/A
	IC	RSS Gen (7.1)	IC	RSS Gen (7.1)	
Antenna Gain > 6 dBi	FCC	15.247(e)	FCC	Public Notice DA 00-705	<input type="checkbox"/> Pass <input checked="" type="checkbox"/> N/A
	IC	RSS247 (5.4.6)	IC	-	
Power Spectral Density	FCC	15.247(e)	FCC	Public Notice DA 00-705	<input type="checkbox"/> Pass <input checked="" type="checkbox"/> N/A
	IC	RSS247 (5.2.2)	IC	-	
Hybrid System Requirement	FCC	15.247(f)	FCC	Public Notice DA 00-705	<input type="checkbox"/> Pass <input checked="" type="checkbox"/> N/A
	IC	RSS247 (5.3)	IC	-	
Hopping Capability	FCC	15.247(g)	FCC	Public Notice DA 00-705	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> N/A
	IC	RSS247 (5.1.5)	IC	-	
RF Exposure requirement	FCC	15.247(i)	FCC	Public Notice DA 00-705	<input type="checkbox"/> Pass <input checked="" type="checkbox"/> N/A
	IC	RSS Gen(3.2)	IC	-	

Remark	<ol style="list-style-type: none"> All measurement uncertainties are not taken into consideration for all presented test result. The applicant shall ensure frequency stability by showing that an emission is maintained within the band of operation under all normal operating conditions as specified in the user's manual.
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9 Measurement Uncertainty

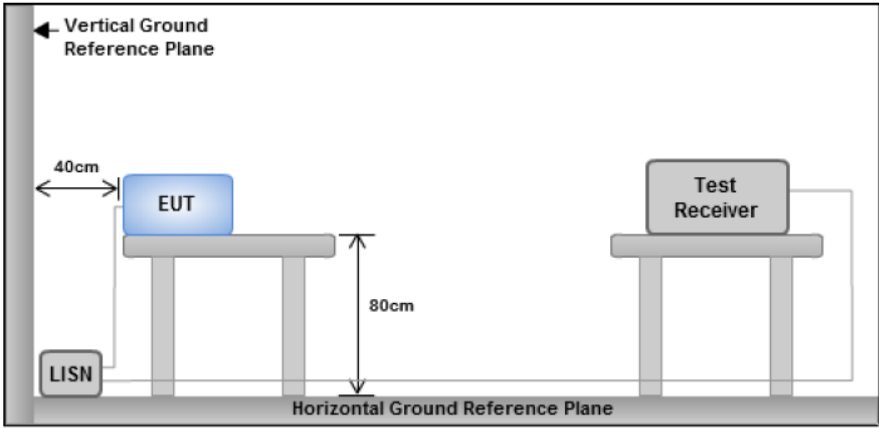
Emissions			
Test Item	Frequency Range	Description	Uncertainty
Band Edge and Radiated Spurious Emissions	30MHz – 1GHz	Confidence level of approximately 95% (in the case where distributions are normal), with a coverage factor of 2 (for EUTs < 0.5m X 0.5m X 0.5m)	+5.6dB/-4.5dB
Band Edge and Radiated Spurious Emissions	1GHz – 40GHz	Confidence level of approximately 95% (in the case where distributions are normal), with a coverage factor of 2 (for EUTs < 0.5m X 0.5m X 0.5m)	+4.3dB/-4.1dB

10 Measurements, Examination and Derived Results

10.1 Conducted Emissions

Conducted Emission Limit

Frequency ranges (MHz)	Limit (dBuV)	
	QP	Average
0.15 ~ 0.5	66 – 56	56 – 46
0.5 ~ 5	56	46
5 ~ 30	60	50

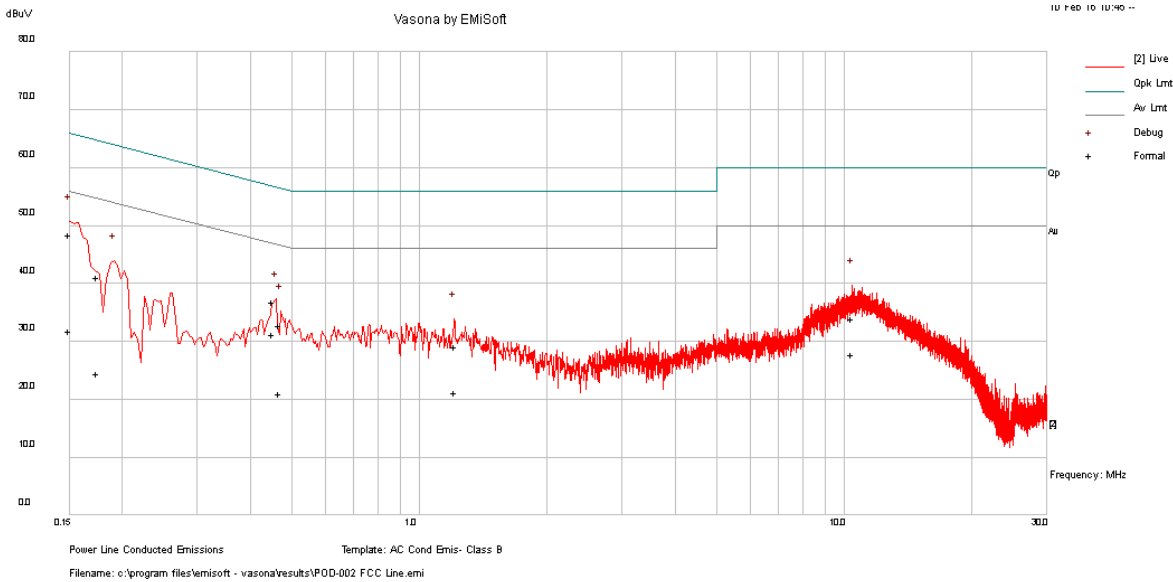
Spec	Item	Requirement	Applicable
47CFR§15.207	a)	For Low-power radio-frequency devices that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies, within the band 150 kHz to 30 MHz, shall not exceed the limits in the following table, as measured using a 50 μ H/50 ohms line impedance stabilization network (LISN). The lower limit applies at the boundary between the frequency ranges.	<input checked="" type="checkbox"/>
Test Setup	 <p>Note: 1. Support units were connected to second LISN. 2. Both of LISNs (AMN) are 80 cm from EUT and at least 80 cm from other units and other metal planes</p>		
Procedure	<ul style="list-style-type: none"> - The EUT and supporting equipment were set up in accordance with the requirements of the standard on top of a 1.5m x 1m x 0.8m high, non-metallic table, as shown in Annex B. - The power supply for the EUT was fed through a 50Ω/50μH EUT LISN, connected to filtered mains. - The RF OUT of the EUT LISN was connected to the EMI test receiver via a low-loss coaxial cable. - All other supporting equipment was powered separately from another main supply. 		
Remark	EUT tested with AC 110V 60Hz		
Result	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail		

Test Data Yes N/A

Test Plot Yes (See below) N/A

Conducted Emission Test Results

Test specification:	Conducted Emissions			Result:	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail
Environmental Conditions:	Temp(°C):	21			
	Humidity (%):	42			
	Atmospheric(mbar):	1021			
Mains Power:	120Vac, 60Hz				
Tested by:	Gary Chou				
Test Date:	02/12/2016				
Remarks	AC Line @ Line				



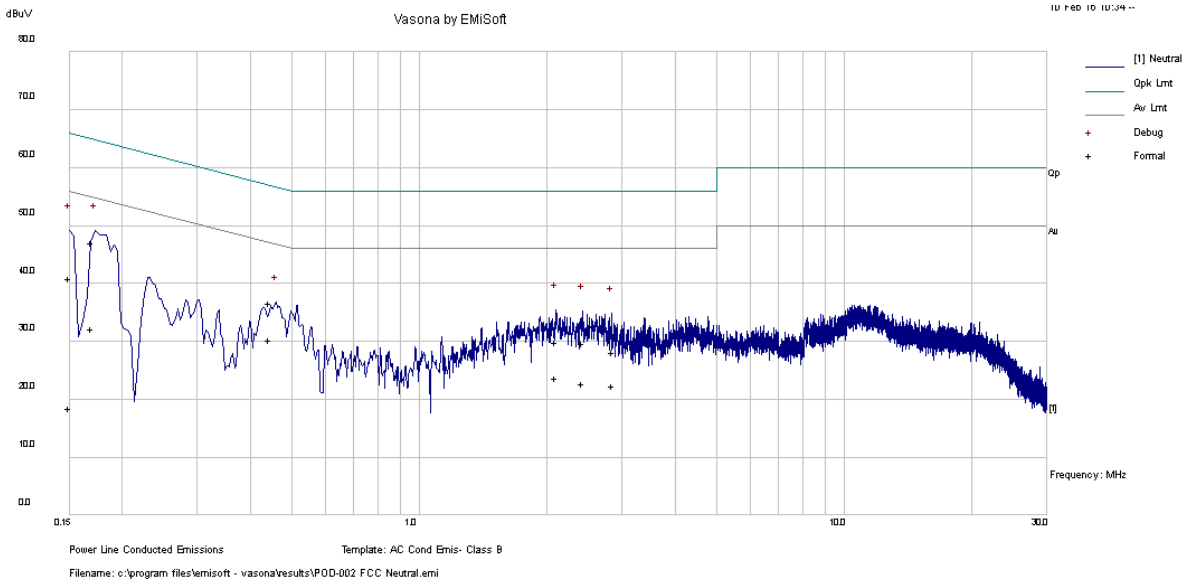
Line Plot at 120Vac, 60Hz

Frequency (MHz)	Raw (dBuV)	Cable Loss (dB)	Factors (dB)	Level (dBuV)	Measurement Type	Line	Limit (dBuV)	Margin (dB)	Pass /Fail
0.15	36.71	10	1.8	48.51	Quasi Peak	Live	66	-17.49	Pass
0.45	26.09	10.01	0.71	36.81	Quasi Peak	Live	56.83	-20.02	Pass
0.17	29.52	10	1.51	41.03	Quasi Peak	Live	64.74	-23.71	Pass
10.44	23.4	10.05	0.56	34.01	Quasi Peak	Live	60	-25.99	Pass
0.47	22.09	10.01	0.7	32.79	Quasi Peak	Live	56.51	-23.71	Pass
1.22	18.64	10.02	0.57	29.23	Quasi Peak	Live	56	-26.77	Pass
0.15	20.01	10	1.8	31.81	Average	Live	56	-24.19	Pass
0.45	20.61	10.01	0.71	31.33	Average	Live	46.83	-15.5	Pass
0.17	13.05	10	1.51	24.57	Average	Live	54.74	-30.18	Pass
10.44	17.27	10.05	0.56	27.88	Average	Live	50	-22.12	Pass
0.47	10.38	10.01	0.7	21.09	Average	Live	46.51	-25.42	Pass
1.22	10.57	10.02	0.57	21.16	Average	Live	46	-24.84	Pass

Note: The results above show only the worst case.

Conducted Emission Test Results

Test specification:	Conducted Emissions			Result:	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail
Environmental Conditions:	Temp(°C):	21			
	Humidity (%):	42			
	Atmospheric(mbar):	1021			
Mains Power:	120Vac, 60Hz				
Tested by:	Gary Chou				
Test Date:	02/12/2016				
Remarks	AC Line @ Neutral				



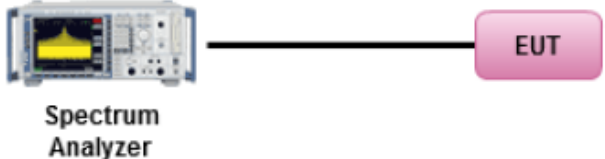
Neutral Plot at 120Vac, 60Hz

Frequency (MHz)	Raw (dBuV)	Cable Loss (dB)	Factors (dB)	Level (dBuV)	Measurement Type	Line	Limit (dBuV)	Margin (dB)	Pass /Fail
0.17	35.6	10	1.56	47.16	Quasi Peak	Neutral	64.98	-17.82	Pass
0.15	29.03	10	1.8	40.84	Quasi Peak	Neutral	66	-25.16	Pass
0.44	25.95	10.01	0.72	36.68	Quasi Peak	Neutral	56.99	-20.31	Pass
2.10	19.34	10.02	0.55	29.91	Quasi Peak	Neutral	56	-26.09	Pass
2.42	19.18	10.03	0.55	29.76	Quasi Peak	Neutral	56	-26.24	Pass
2.85	17.59	10.03	0.55	28.17	Quasi Peak	Neutral	56	-27.83	Pass
0.17	20.6	10	1.56	32.16	Average	Neutral	54.98	-22.82	Pass
0.15	6.75	10	1.8	18.55	Average	Neutral	56	-37.45	Pass
0.44	19.58	10.01	0.72	30.3	Average	Neutral	46.99	-16.68	Pass
2.10	13.09	10.02	0.55	23.66	Average	Neutral	46	-22.34	Pass
2.42	12.19	10.03	0.55	22.76	Average	Neutral	46	-23.24	Pass
2.85	11.76	10.03	0.55	22.34	Average	Neutral	46	-23.66	Pass

Note: The results above show only the worst case.

10.2 Channel Separation

Requirement(s):

Spec	Item	Requirement	Applicable
47 CFR §15.247 (e) RSS-247 (A2.6) RSS 247 5.1	a)	Frequency hopping systems operating in the 2400-2483.5 MHz band may 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.	<input checked="" type="checkbox"/>
Test Setup	 <p>The diagram illustrates the test setup. On the left is a Spectrum Analyzer with a yellow trace on its screen. A black line connects the Spectrum Analyzer to a pink rounded rectangle labeled 'EUT' (Equipment Under Test).</p>		
Test Procedure	<p>DA 00-705 Measurement Guidelines for Frequency Hopping Spread Spectrum Systems</p> <p><u>Channel Separation procedure</u></p> <ul style="list-style-type: none"> - The EUT must have its hopping function enabled. - Span = wide enough to capture the peaks of two adjacent channels - Resolution (or IF) Bandwidth (RBW) ≥ 1% of the span - Video (or Average) Bandwidth (VBW) ≥ RBW. - Detector = Peak. - Trace mode = max hold. - Use the marker-delta function to determine the separation between the peaks of the adjacent channels. 		
Test Date	02/09/2016	Environmental condition	Temperature 21°C Relative Humidity 46% Atmospheric Pressure 1019mbar
Remark	NONE		
Result	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail		

Test Data Yes (See below) N/A

Test Plot Yes (See below) N/A

Configuration : Bluetooth Mode , BDR Mode

Channel	Channel Frequency (MHz)	Channel Separation (MHz)	2/3 20dB Bandwidth (MHz)	Pass/Fail
Low	2402	1.000	0.68	Pass
Mid	2441	1.000	0.68	Pass
High	2480	1.002	0.68	Pass

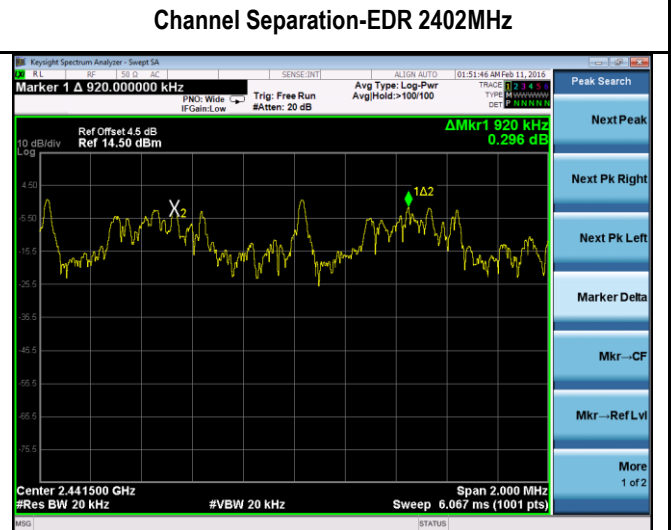
Configuration : Bluetooth Mode , EDR Mode

Channel	Channel Frequency (MHz)	Channel Separation (MHz)	2/3 20dB Bandwidth (MHz)	Pass/Fail
Low	2402	0.998	0.77	Pass
Mid	2441	0.920	0.77	Pass
High	2480	1.002	0.77	Pass

Channel Separation Test Plot (Bluetooth BDR/EDR)



Channel Separation-BDR 2402MHz



Channel Separation-BDR 2441MHz

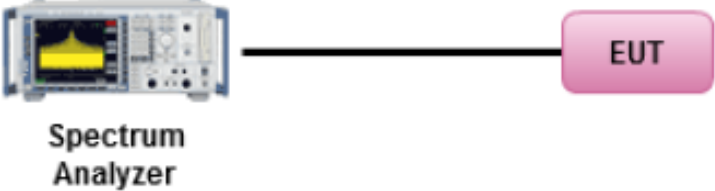


Channel Separation-BDR 2480MHz

Channel Separation-EDR 2480MHz

10.3 20dB and 99% Occupied Bandwidth

Requirement(s):

Spec	Requirement	Applicable									
47 CFR §15.247 RSS 247 5.1	Frequency hopping systems operating in the 2400-2483.5 MHz band may 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.	<input checked="" type="checkbox"/>									
RSS Gen 4.6.1	The transmitter shall be operated at its maximum carrier power measured under normal test conditions. The span of the analyzer shall be set to capture all products of the modulation process, including the emission skirts. The resolution bandwidth shall be set to as close to 1% of the selected span as is possible without being below 1%. The video bandwidth shall be set to 3 times the resolution bandwidth. Video averaging is not permitted. Where practical, a sampling detector shall be used given that a peak or peak hold may produce a wider bandwidth than actual. The trace data points are recovered and directly summed in linear terms. The recovered amplitude data points, beginning at the lowest frequency, are placed in a running sum until 0.5% of the total is reached and that frequency recorded. The process is repeated for the highest frequency data points. This frequency is recorded. The span between the two recorded frequencies is the occupied bandwidth	<input checked="" type="checkbox"/>									
Test Setup											
Procedure	<p><u>20dB Emission bandwidth measurement procedure</u></p> <ul style="list-style-type: none"> - Set RBW \geq 1% of 20dB Bandwidth - Set the video bandwidth (VBW) \geq RBW. - Detector = Peak. - Trace mode = max hold. - Sweep = auto couple. - Allow the trace to stabilize. - Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission. <p><u>99% bandwidth measurement procedure</u></p> <ol style="list-style-type: none"> 1. EUT was set for low , mid, high channel with modulated mode and highest RF output power. 2. The spectrum analyzer was connected to the antenna terminal. 										
Test Date	02/09/2016	<table border="1" style="width: 100%;"> <tr> <td>Environmental condition</td> <td>Temperature</td> <td>23oC</td> </tr> <tr> <td></td> <td>Relative Humidity</td> <td>47%</td> </tr> <tr> <td></td> <td>Atmospheric Pressure</td> <td>1019mbar</td> </tr> </table>	Environmental condition	Temperature	23oC		Relative Humidity	47%		Atmospheric Pressure	1019mbar
Environmental condition	Temperature	23oC									
	Relative Humidity	47%									
	Atmospheric Pressure	1019mbar									
Remark	-										
Result	<input type="checkbox"/> Pass <input type="checkbox"/> Fail										

Test Data Yes (See below) N/A

Test Plot Yes (See below) N/A

Configuration : Bluetooth mode , BDR Mode

Channel	Channel Frequency (MHz)	OBW		2/3 20dB Bandwidth (MHz)
		99% (MHz)	20dB(MHz)	
Low	2402	1.00	1.02	0.68
Mid	2441	1.00	1.02	0.68
High	2480	1.00	1.02	0.68

Configuration : Bluetooth mode , EDR mode

Channel	Channel Frequency (MHz)	OBW		2/3 20dB Bandwidth (MHz)
		99%(MHz)	20dB(MHz)	
Low	2402	1.12	1.16	0.77
Mid	2441	1.12	1.15	0.77
High	2480	1.12	1.16	0.77

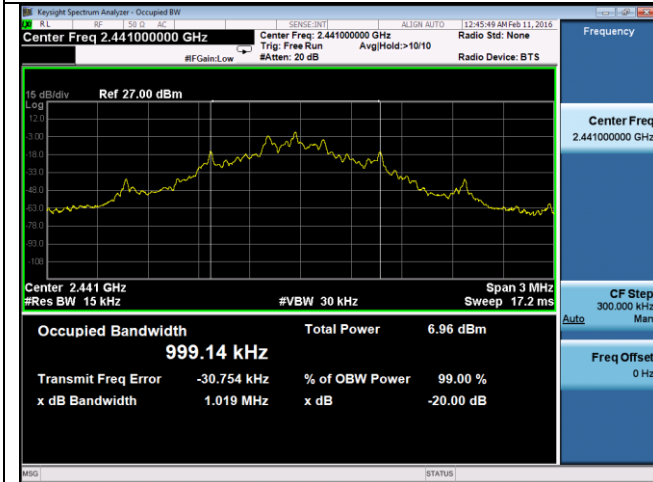
99% & 20dB Bandwidth Test Plots(Bluetooth BDR, EDR)



99% and 20dB BW –Bluetooth BDR 2402MHz



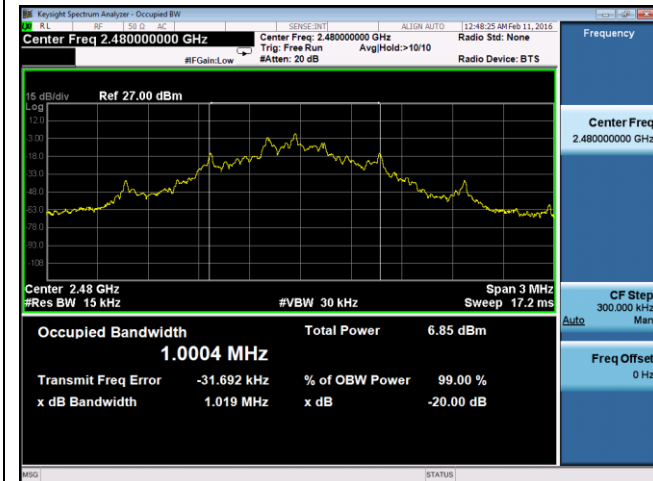
99% and 20dB BW –Bluetooth EDR 2402MHz



99% and 20dB BW –Bluetooth BDR 2441MHz



99% and 20dB BW –Bluetooth EDR 2441MHz



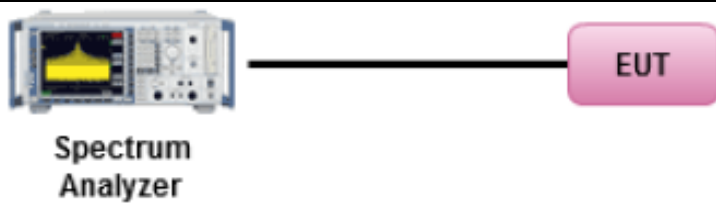
99% and 20dB BW –Bluetooth BDR 2480MHz



99% and 20dB BW –Bluetooth EDR 2480MHz

10.4 Number of Hopping Channel

Requirement(s):

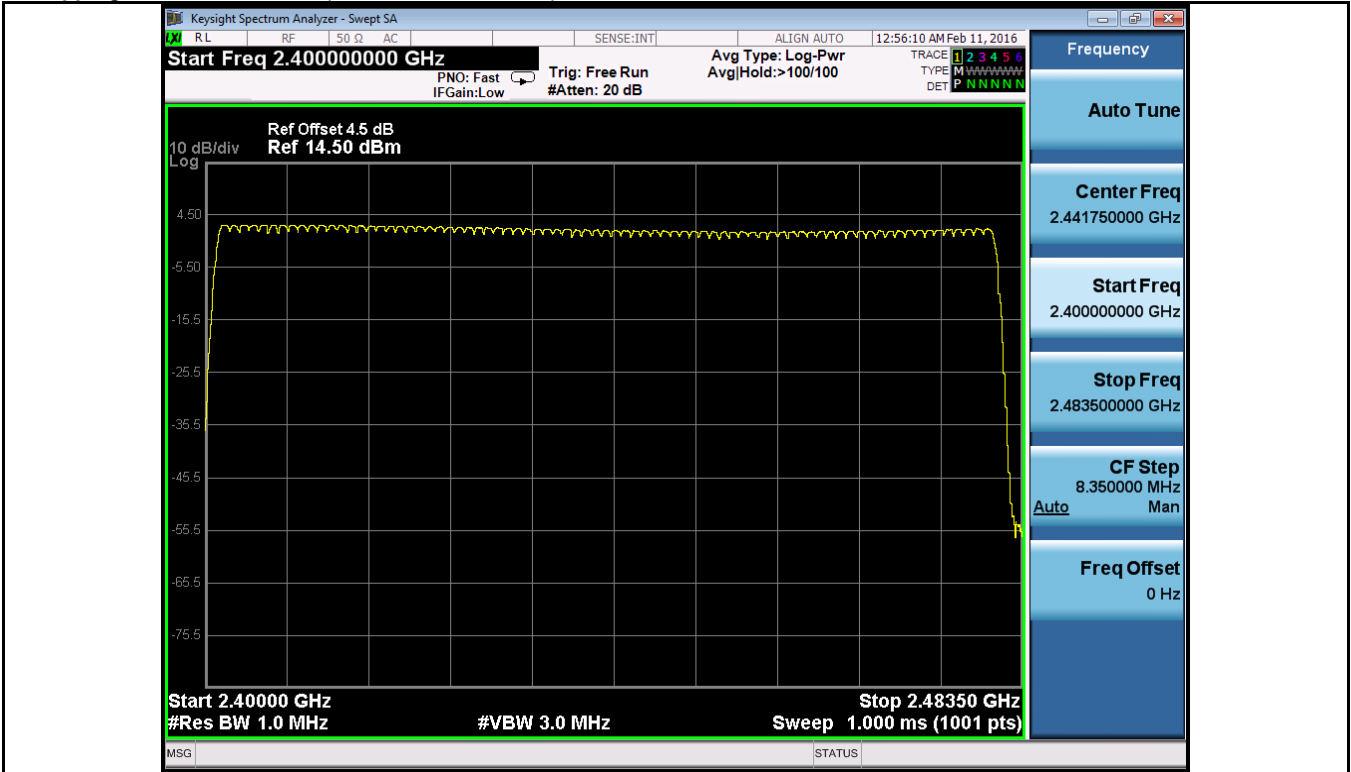
Spec	Requirement	Applicable									
47 CFR §15.247 RSS247 (5.1.5)	For frequency hopping systems in the 2400-2483.5MHz band employing at least 75 hopping channels,	<input checked="" type="checkbox"/>									
Test Setup	 <p style="text-align: center;">Spectrum Analyzer</p>										
Procedure	<p><u>Number of hopping frequencies procedure</u></p> <ol style="list-style-type: none"> 1. The EUT must have its hopping function enabled 2. Span = the frequency band of operation. 3. Resolution (or IF) Bandwidth (RBW) ≥ 1% of the span. 4. Video (or Average) Bandwidth (VBW) ≥ RBW. 5. Detector = peak. 6. Sweep time = auto couple. 7. Trace mode = max hold. 8. Allow trace to fully stabilize. 9. Save the plot 										
Test Date	02/09/2016	<table border="1" style="width: 100%;"> <tr> <td>Environmental condition</td> <td>Temperature</td> <td>23oC</td> </tr> <tr> <td></td> <td>Relative Humidity</td> <td>47%</td> </tr> <tr> <td></td> <td>Atmospheric Pressure</td> <td>1019mbar</td> </tr> </table>	Environmental condition	Temperature	23oC		Relative Humidity	47%		Atmospheric Pressure	1019mbar
Environmental condition	Temperature	23oC									
	Relative Humidity	47%									
	Atmospheric Pressure	1019mbar									
Remark	-										
Result	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail										

Test Data Yes (See below) N/A

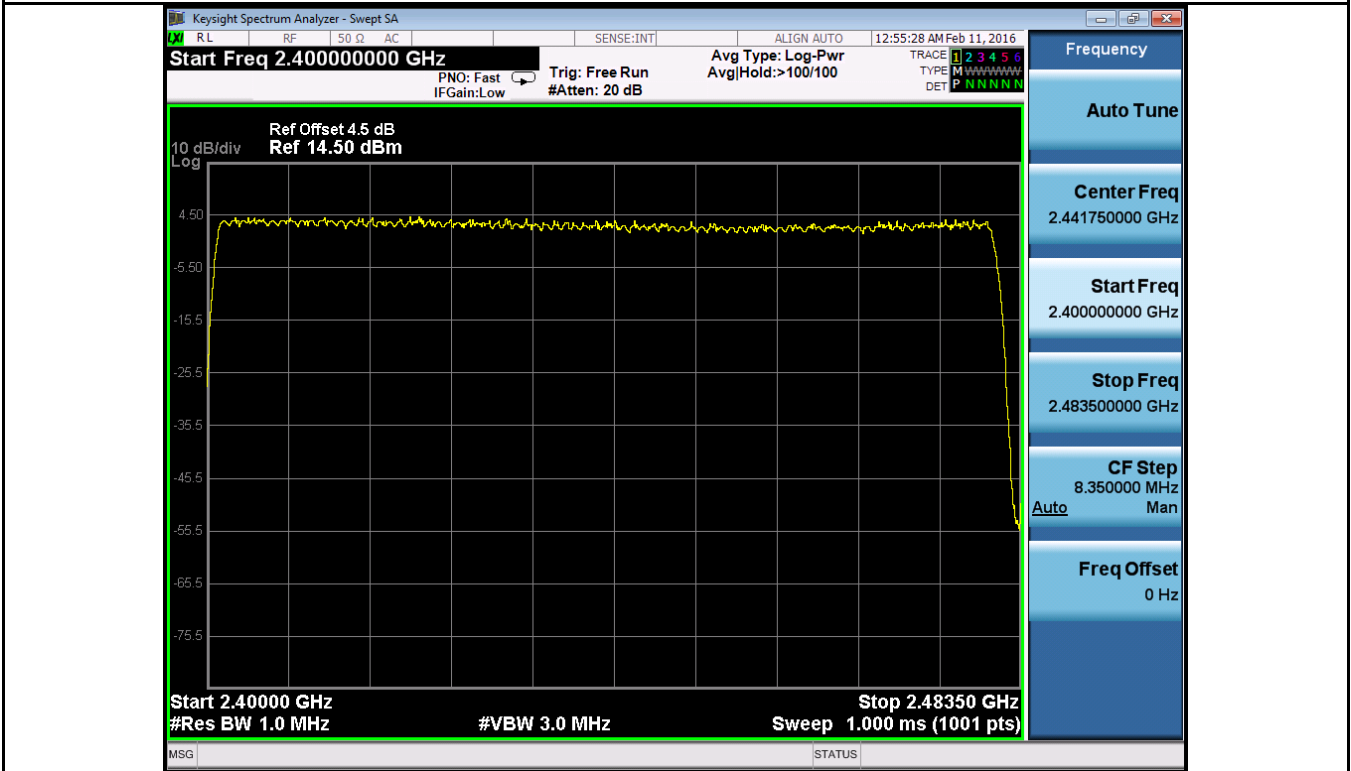
Test Plot Yes (See below) N/A

Channel Number	Limit	Pass/Fail
79	>75	Pass

Hopping Channel Test Plots(Bluetooth BDR, EDR)



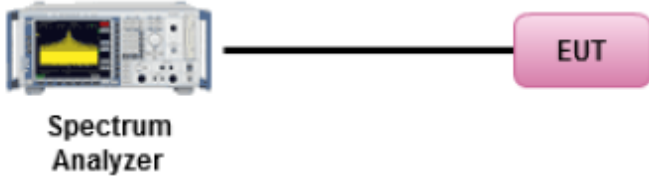
BDR – 79 Channels



EDR – 79 Channels

10.5 Time of Occupancy

Requirement(s):

Spec	Requirement	Applicable									
47 CFR §15.247 RSS247 (5.1.5)	Frequency hopping systems in the 2400-2483.5MHz band shall use at least 15 non-overlapping channels. The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed. Frequency hopping systems which use fewer than 75 hopping frequencies may employ intelligent hopping techniques to avoid interference to other transmissions.	<input checked="" type="checkbox"/>									
Test Setup	 <p style="text-align: center;">Spectrum Analyzer EUT</p>										
Test Procedure	<p>DA 00-705 Measurement Guidelines for Frequency Hopping Spread Spectrum Systems</p> <p><u>Channel Separation procedure</u></p> <ul style="list-style-type: none"> - The EUT must have its hopping function enabled. - Span = zero span - centered on a hopping channel - RBW = 1 MHz; VBW ≥ RBW - Sweep = as necessary to capture the entire dwell time per hopping channel. - Detector = Peak. - Trace mode = max hold. - If possible, use the marker-delta function to determine the dwell time. If this value varies with different modes of operation (e.g., data rate, modulation format, etc.), repeat this test for each variation. 										
Test Date	02/09/2016	<table border="0"> <tr> <td>Environmental condition</td> <td>Temperature</td> <td>21°C</td> </tr> <tr> <td></td> <td>Relative Humidity</td> <td>46%</td> </tr> <tr> <td></td> <td>Atmospheric Pressure</td> <td>1019mbar</td> </tr> </table>	Environmental condition	Temperature	21°C		Relative Humidity	46%		Atmospheric Pressure	1019mbar
Environmental condition	Temperature	21°C									
	Relative Humidity	46%									
	Atmospheric Pressure	1019mbar									
Remark	Dwell Time=Pulse time*(1600/6/79)*31.6s										
Result	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail										

Test Data Yes (See below) N/A

Test Plot Yes (See below) N/A

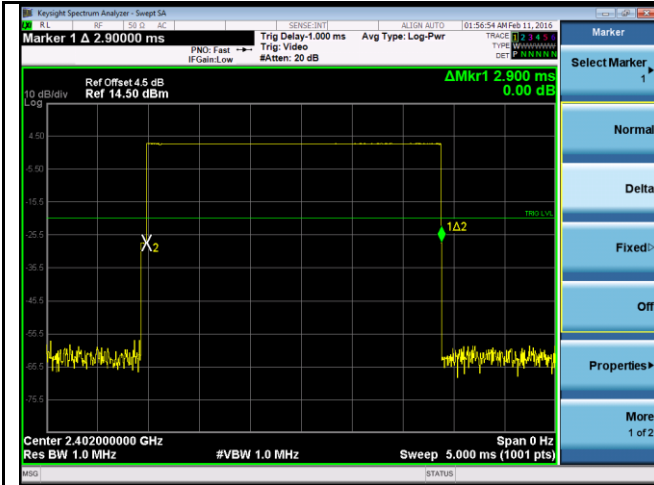
Bluetooth BDR Test Mode

Channel	Channel Frequency (MHz)	On Time (mSec)	Dwell Time (Sec)	Limit (Sec)
Low	2402	2.90	0.31	0.4
Mid	2441	2.90	0.31	0.4
High	2480	2.90	0.31	0.4

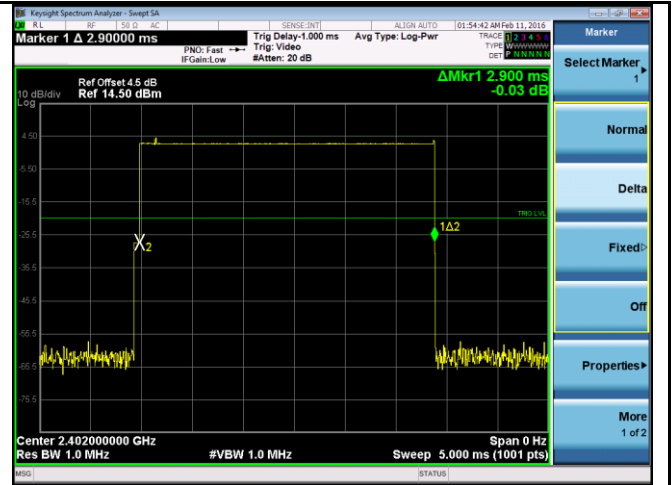
Bluetooth EDR Test Mode

Channel	Channel Frequency (MHz)	On Time (mSec)	Dwell Time (Sec)	Limit (Sec)
Low	2402	2.90	0.31	0.4
Mid	2441	2.91	0.31	0.4
High	2480	2.91	0.31	0.4

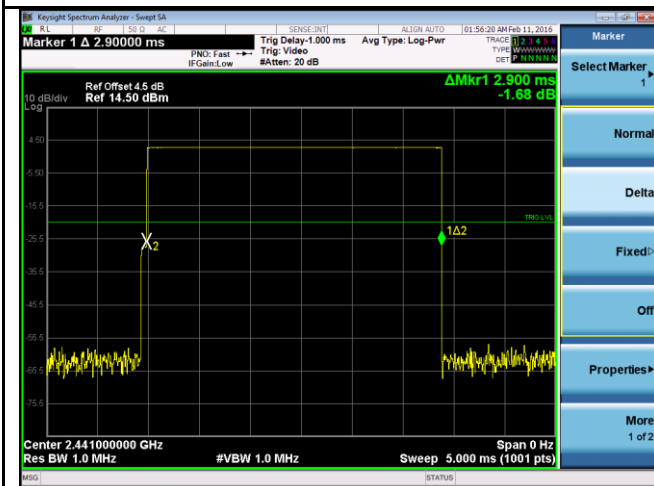
Time of Occupancy Test Plot (Bluetooth BDR/EDR)



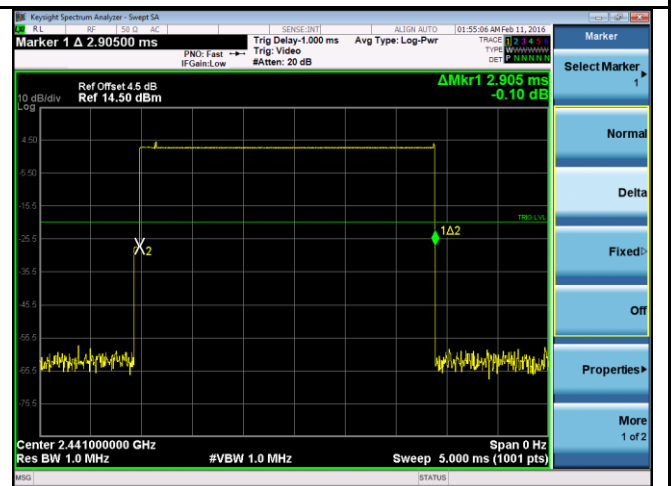
BDR Low Channel (On-Time)



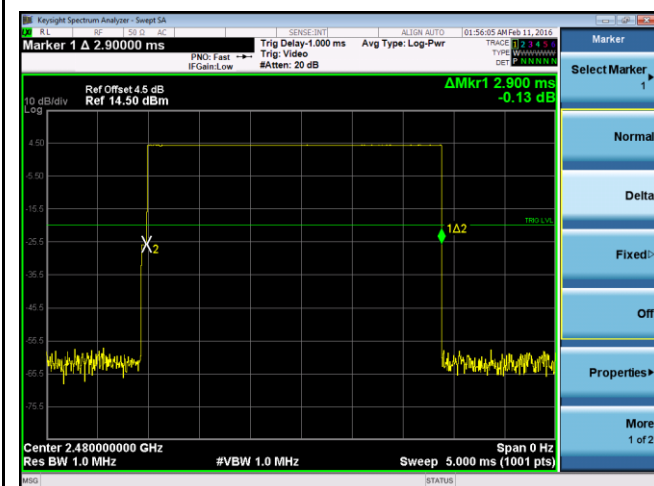
EDR Low Channel (On-Time)



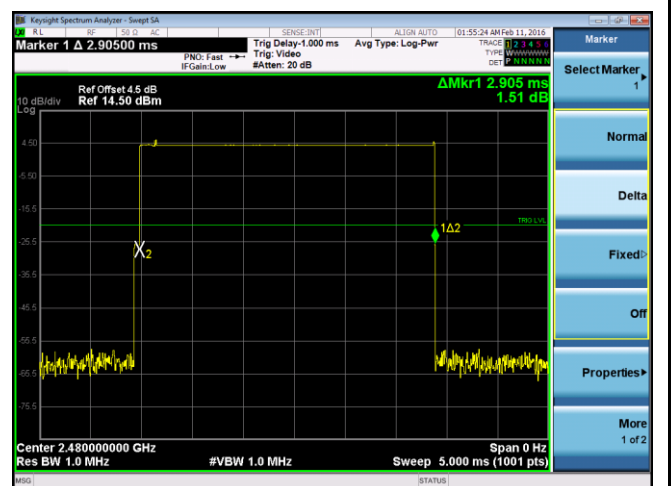
BDR Middle Channel (On-Time)



EDR Middle Channel (On-Time)



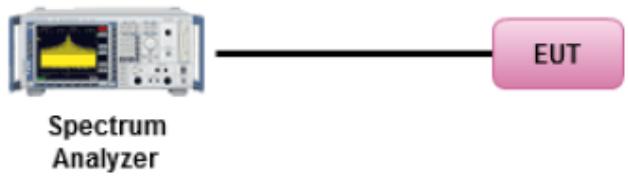
BDR High Channel (On-Time)



EDR High Channel (On-Time)

10.6 Peak Output Power

Requirement(s):

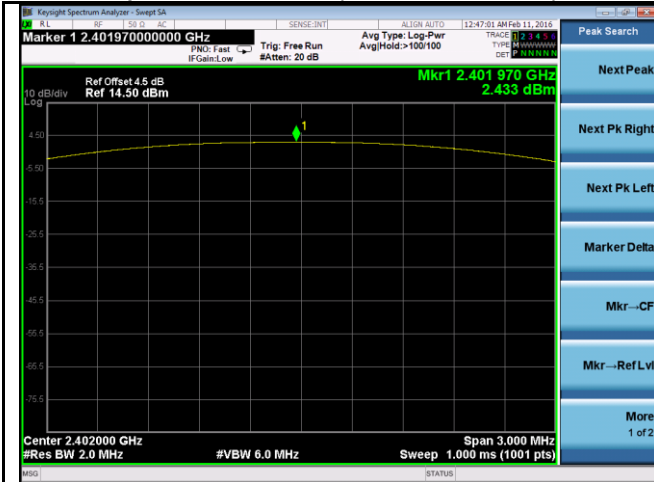
Spec	Item	Requirement	Applicable
§ 15.247 RSS 247 A5.1	a)	For frequency hopping systems in the 2400-2483.5MHz band employing at least 75 hopping channels, and all frequency hopping systems in the 5725-5850MHz band: below 1 Watt (inclusive).	<input checked="" type="checkbox"/>
	b)	Power reduction (antenna gain > 6dBi)	<input type="checkbox"/>
§ 15.247		Frequency hopping systems operated in 2400-2483.5MHz with output power not greater than 125mW, the intervals of hopping channel carrier frequencies shall not be less than 25kHz or two thirds of the 20dB bandwidth of the hopping channel, whichever is greater.	<input type="checkbox"/>
Test Setup	 <p style="text-align: center;">Spectrum Analyzer ————— EUT</p>		
Test Procedure	<p><u>Maximum output power measurement procedure</u></p> <ul style="list-style-type: none"> - Span = approximately 5 times the 20 dB bandwidth, centered on a hopping channel. - RBW > 20 dB bandwidth of the emission being measured; - VBW ≥ RBW. - Detector = peak. - Sweep time = auto couple. - Trace mode = max hold. - Allow trace to fully stabilize. - Use the marker-to-peak function to set the marker to the peak of the emission. The indicated level is the peak output power. 		
Test Date	02/09/2016	Environmental condition	Temperature 21°C Relative Humidity 46% Atmospheric Pressure 1019mbar
Remark	NONE		
Result	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail		

Test Data Yes N/A
Test Plot Yes N/A

Output Power measurement results

Type	Test mode	CH	Freq (MHz)	Conducted Power (dBm)	Limit (dBm)	Result
Output power	Bluetooth BDR	Low	2402	2.43	≤30	Pass
		Mid	2441	1.50	≤30	Pass
		High	2480	1.77	≤30	Pass
	Bluetooth EDR	Low	2402	4.77	≤30	Pass
		Mid	2441	3.78	≤30	Pass
		High	2480	4.12	≤30	Pass

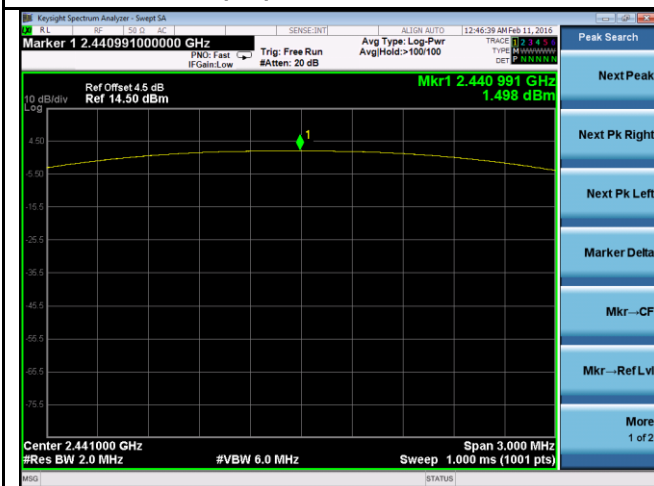
Peak Output Power Test Plot (Bluetooth BDR/EDR)



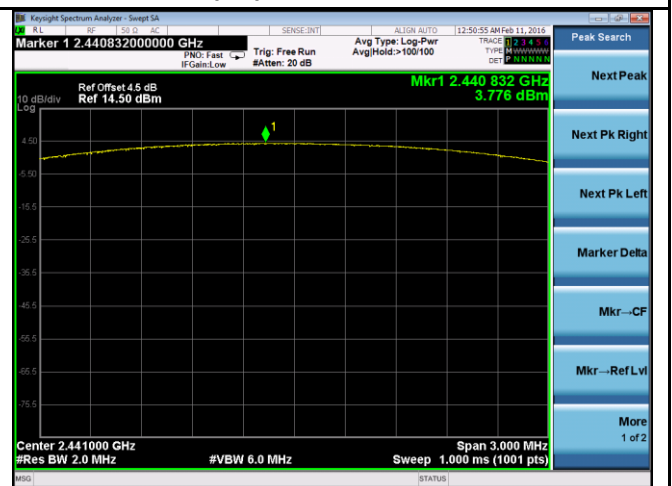
Output power - BDR 2402MHz



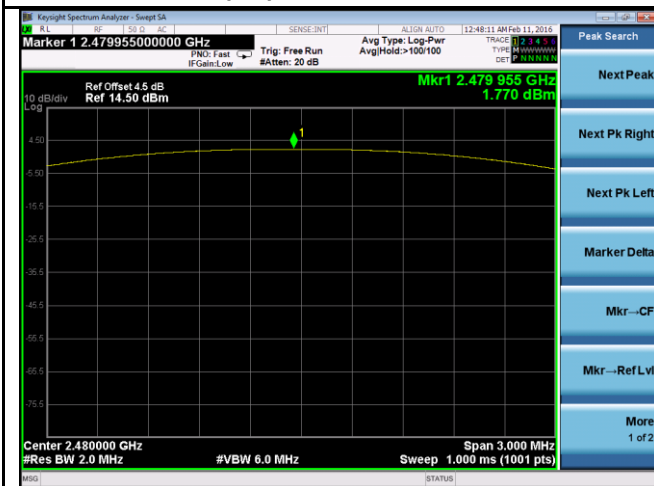
Output power - EDR 2402MHz



Output power - BDR 244MHz



Output power - EDR 244MHz

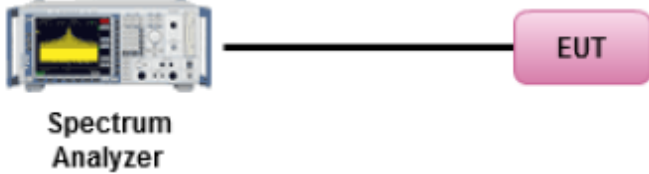


Output power - BDR 2480MHz



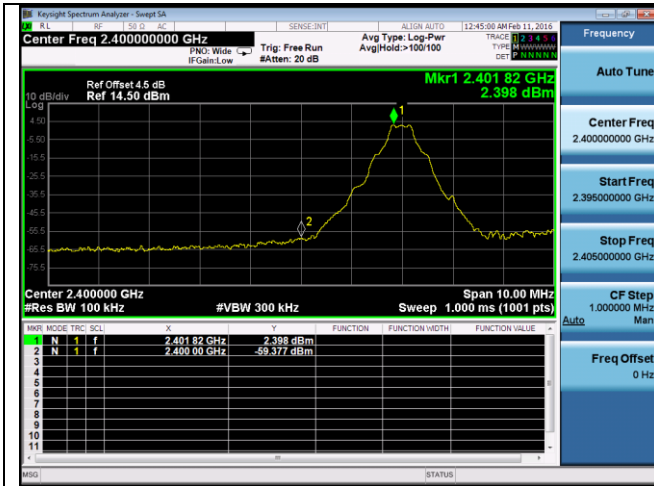
Output power - EDR 2480MHz

10.7 Band Edge
Requirement(s):

Spec	Item	Requirement	Applicable
§ 15.247 RSS 247 5.1	d)	For non-restricted band, In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB or 30dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, determined by the measurement method on output power to be used. Attenuation below the general limits specified in § 15.209 (a) is not required <input checked="" type="checkbox"/> 20 dB down <input type="checkbox"/> 30 dB down	☒
Test Setup	 <p style="text-align: center;">Spectrum Analyzer EUT</p>		
Test Procedure	<u>Band Edge measurement procedure</u> <ol style="list-style-type: none"> 1. Set the EUT to maximum power setting and enable the EUT transmit continuously. 2. Band edge emissions must be at least 30 dB down from the highest emission level within the authorized band as a measured. The attenuation shall be 30 dB instead of 20 dB when Peak conducted output power procedure is used. 3. Change modulation and channel bandwidth then repeat step 1 to 2. 4. Measured and record the results in the test report. 		
Test Date	02/09/2016	Environmental condition	Temperature 22°C Relative Humidity 46% Atmospheric Pressure 1020mbar
Remark	-		
Result	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail		

Test Data Yes N/A
Test Plot Yes (See below) N/A

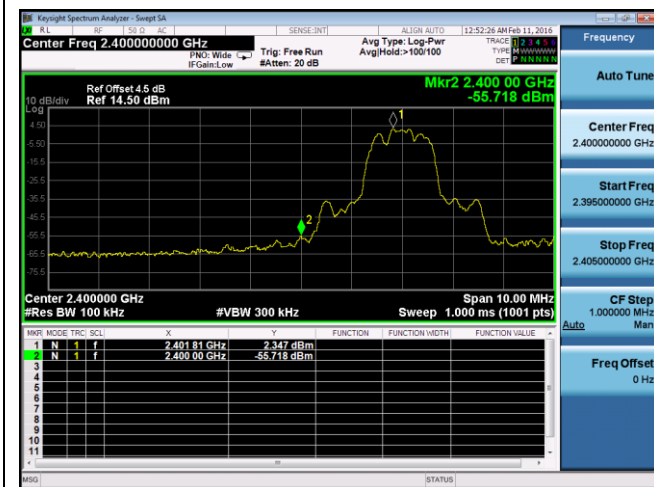
Band Edge Single Test Plots



Band Edge-Single-BDR 2402MHz



Band Edge-Single-BDR 2480MHz



Band Edge-Single-EDR 2402MHz



Band Edge-Single-EDR 2480MHz

10.8 Transmitter Radiated Spurious Emissions Below 1GHz

Requirement(s):

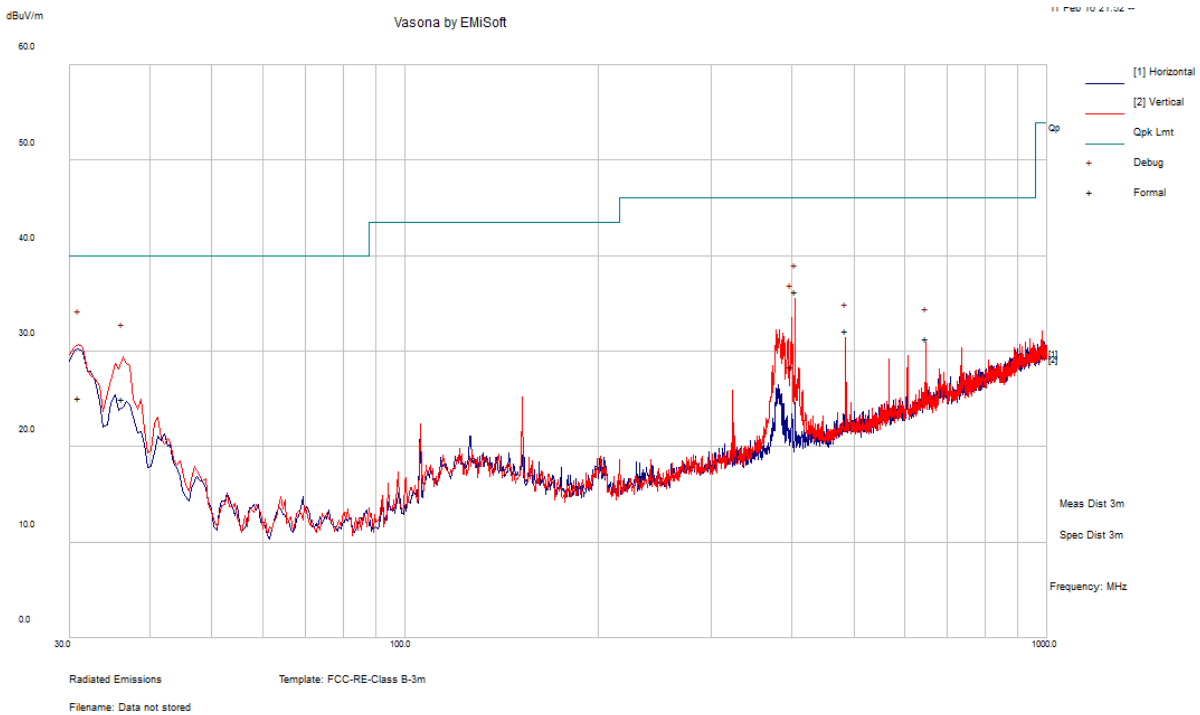
Spec	Item	Requirement	Applicable										
47CFR§15.247(d), RSS247(5.5)	a)	<p>Except higher limit as specified elsewhere in other section, the emissions from the low-power radio-frequency devices shall not exceed the field strength levels specified in the following table and the level of any unwanted emissions shall not exceed the level of the fundamental emission. The tighter limit applies at the band edges</p> <table border="1"> <thead> <tr> <th>Frequency range (MHz)</th> <th>Field Strength (uV/m)</th> </tr> </thead> <tbody> <tr> <td>30 – 88</td> <td>100</td> </tr> <tr> <td>88 – 216</td> <td>150</td> </tr> <tr> <td>216 960</td> <td>200</td> </tr> <tr> <td>Above 960</td> <td>500</td> </tr> </tbody> </table>	Frequency range (MHz)	Field Strength (uV/m)	30 – 88	100	88 – 216	150	216 960	200	Above 960	500	☒
Frequency range (MHz)	Field Strength (uV/m)												
30 – 88	100												
88 – 216	150												
216 960	200												
Above 960	500												
Test Setup													
Procedure		<ol style="list-style-type: none"> The EUT was switched on and allowed to warm up to its normal operating condition. The test was carried out at the selected frequency points obtained from the EUT characterisation. Maximization of the emissions, was carried out by rotating the EUT, changing the antenna polarization, and adjusting the antenna height in the following manner: <ol style="list-style-type: none"> Vertical or horizontal polarisation (whichever gave the higher emission level over a full rotation of the EUT) was chosen. The EUT was then rotated to the direction that gave the maximum emission. Finally, the antenna height was adjusted to the height that gave the maximum emission. A Quasi-peak measurement was then made for that frequency point. Steps 2 and 3 were repeated for the next frequency point, until all selected frequency points were measured. 											
Remark		The EUT was scanned up to 1GHz. Both horizontal and vertical polarities were investigated. The results show only the worst case.											
Result		☒ Pass ☐ Fail											

Test Data ☒ Yes (See below) ☐ N/A

Test Plot ☒ Yes (See below) ☐ N/A

Radiated Emission Test Results (Below 1GHz)

Test specification:	Radiated Spurious Emissions (30MHz – 1000MHz)			Result :	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail
Environmental Conditions:	Temp(°C):	22			
	Humidity (%):	37			
	Atmospheric(mbar):	1021			
Mains Power:	120VAC, 60Hz				
Tested by:	Gary Chou				
Test Date:	02/11/2016				
Remarks:	Worst Case TX BDR 2441MHz				



Quasi Max Measurement

Frequency (MHz)	Raw (dBuV)	Cable Loss (dB)	AF (dB)	Level (dBuV/m)	Measurement Type	Pol (V/H)	Hgt (cm)	Azt (Deg)	Limit (dBuV/m)	Margin (dB)	Pass /Fail
30.99	39.65	0.81	-15.31	25.15	Quasi Max	V	185	171	40	-14.85	Pass
405.00	55.62	3.52	-22.9	36.24	Quasi Max	V	158	9	46.02	-9.78	Pass
36.31	43.93	0.87	-19.84	24.96	Quasi Max	V	129	280	40	-15.04	Pass
399.58	48	3.5	-23.1	28.39	Quasi Max	V	109	21	46.02	-17.63	Pass
486.03	49.34	3.93	-21.05	32.22	Quasi Max	V	127	134	46.02	-13.80	Pass
648.01	45.67	4.54	-18.88	31.34	Quasi Max	V	101	127	46.02	-14.68	Pass

10.9 Transmitter Radiated Spurious Emissions > 1GHz & Restricted band emission

Requirement(s):

Spec	Item	Requirement	Applicable
47CFR§15.247(d), RSS247(5.5)	a)	For non-restricted band, In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB or 30dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, determined by the measurement method on output power to be used. Attenuation below the general limits specified in § 15.209(a) is not required <input checked="" type="checkbox"/> 20 dB down <input type="checkbox"/> 30 dB down	<input checked="" type="checkbox"/>
	b)	or restricted band, emission must also comply with the radiated emission limits specified in 15.209	<input checked="" type="checkbox"/>
Test Setup			
Procedure	<ol style="list-style-type: none"> The EUT was switched on and allowed to warm up to its normal operating condition. The test was carried out at the selected frequency points obtained from the EUT characterisation. Maximization of the emissions, was carried out by rotating the EUT, changing the antenna polarization, and adjusting the antenna height in the following manner: <ol style="list-style-type: none"> Vertical or horizontal polarisation (whichever gave the higher emission level over a full rotation of the EUT) was chosen. The EUT was then rotated to the direction that gave the maximum emission. Finally, the antenna height was adjusted to the height that gave the maximum emission. An average measurement was then made for that frequency point. Steps 2 and 3 were repeated for the next frequency point, until all selected frequency points were measured. 		
Remark	The EUT was scanned up to 26GHz. Both horizontal and vertical polarities were investigated. The results show only the worst case.		
Result	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail		

Test Data Yes (See below) N/A

Test Plot Yes (See below) N/A

Radiated Emission Test Results

Bluetooth BDR – 2402MHz

Frequency (MHz)	Raw (dBuV)	Cable Loss (dB)	AF (dB)	Level (dBuV/m)	Measurement Type	Pol (V/H)	Hgt (cm)	Azt (Deg)	Limit (dBuV/m)	Margin (dB)	Pass /Fail
4124.90	37.36	8.82	15.2	61.38	Peak Max	H	171	117	74	-12.62	Pass
6143.25	36.87	10.66	14.24	61.78	Peak Max	V	113	185	74	-12.23	Pass
1000.20	44.13	3.35	13.2	60.68	Peak Max	H	178	157	74	-13.32	Pass
4124.90	25.96	8.82	15.2	49.98	Average Max	H	171	117	54	-4.02	Pass
6143.25	24.81	10.66	14.24	49.72	Average Max	V	113	185	54	-4.28	Pass
1000.20	31.88	3.35	13.2	48.43	Average Max	H	178	157	54	-5.57	Pass

Bluetooth BDR – 2441MHz

Frequency (MHz)	Raw (dBuV)	Cable Loss (dB)	AF (dB)	Level (dBuV/m)	Measurement Type	Pol (V/H)	Hgt (cm)	Azt (Deg)	Limit (dBuV/m)	Margin (dB)	Pass /Fail
4208.37	38.04	9.02	14.84	61.91	Peak Max	H	210	124	74	-12.09	Pass
6162.44	36.99	10.68	14.2	61.87	Peak Max	V	118	10	74	-12.13	Pass
1020.07	42.95	3.38	13.17	59.5	Peak Max	V	199	152	74	-14.5	Pass
4208.37	26.37	9.02	14.84	50.23	Average Max	H	210	124	54	-3.77	Pass
6162.44	25.46	10.68	14.2	50.34	Average Max	V	118	10	54	-3.66	Pass
1020.07	31.68	3.38	13.17	48.22	Average Max	V	199	152	54	-5.78	Pass

Bluetooth BDR – 2480MHz

Frequency (MHz)	Raw (dBuV)	Cable Loss (dB)	AF (dB)	Level (dBuV/m)	Measurement Type	Pol (V/H)	Hgt (cm)	Azt (Deg)	Limit (dBuV/m)	Margin (dB)	Pass /Fail
4156.24	37.72	8.89	15.07	61.68	Peak Max	V	126	262	74	-12.32	Pass
6226.32	35.92	10.76	14.05	60.73	Peak Max	H	244	98	74	-13.27	Pass
2092.91	39.34	4.36	14.7	58.41	Peak Max	V	149	61	74	-15.59	Pass
4156.24	25.88	8.89	15.07	49.84	Average Max	V	126	262	54	-4.16	Pass
6226.32	24.61	10.76	14.05	49.41	Average Max	H	244	98	54	-4.59	Pass
2092.91	28	4.36	14.7	47.07	Average Max	V	149	61	54	-6.93	Pass

Bluetooth EDR – 2402MHz

Frequency (MHz)	Raw (dBuV)	Cable Loss (dB)	AF (dB)	Level (dBuV/m)	Measurement Type	Pol (V/H)	Hgt (cm)	Azt (Deg)	Limit (dBuV/m)	Margin (dB)	Pass /Fail
4080.78	37.56	8.71	15.39	61.66	Peak Max	H	207	179	74	-12.34	Pass
6321.49	35.99	10.88	13.82	60.69	Peak Max	V	182	101	74	-13.31	Pass
1968.66	39.51	4.26	14.75	58.53	Peak Max	H	180	341	74	-15.48	Pass
4080.78	25.8	8.71	15.39	49.9	Average Max	H	207	179	54	-4.11	Pass
6321.49	24.41	10.88	13.82	49.11	Average Max	V	182	101	54	-4.89	Pass
1968.66	27.93	4.26	14.75	46.95	Average Max	H	180	341	54	-7.05	Pass

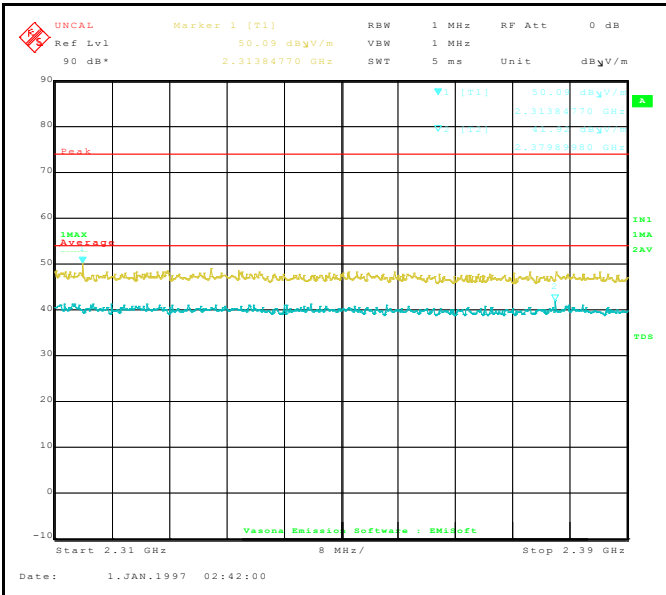
Bluetooth EDR – 2441MHz

Frequency (MHz)	Raw (dBuV)	Cable Loss (dB)	AF (dB)	Level (dBuV/m)	Measurement Type	Pol (V/H)	Hgt (cm)	Azt (Deg)	Limit (dBuV/m)	Margin (dB)	Pass /Fail
4241.47	37.6	9.1	14.7	61.41	Peak Max	V	122	124	74	-12.59	Pass
6120.38	36.39	10.63	14.3	61.32	Peak Max	V	151	158	74	-12.68	Pass
2159.74	38.88	4.41	14.5	57.79	Peak Max	H	247	102	74	-16.21	Pass
4241.47	25.92	9.1	14.7	49.73	Average Max	V	122	124	54	-4.27	Pass
6120.38	24.62	10.63	14.3	49.55	Average Max	V	151	158	54	-4.45	Pass
2159.74	27.82	4.41	14.5	46.73	Average Max	H	247	102	54	-7.27	Pass

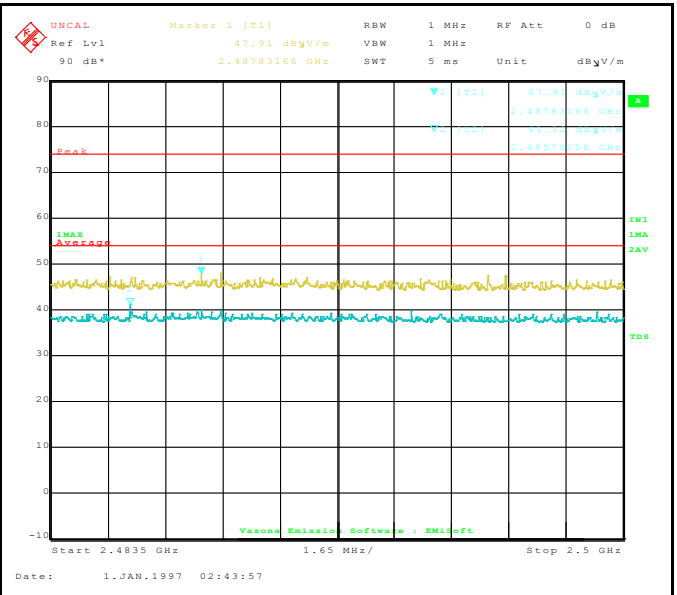
Bluetooth EDR – 2480MHz

Frequency (MHz)	Raw (dBuV)	Cable Loss (dB)	AF (dB)	Level (dBuV/m)	Measurement Type	Pol (V/H)	Hgt (cm)	Azt (Deg)	Limit (dBuV/m)	Margin (dB)	Pass /Fail
4157.539	37.77	8.9	11.54	58.21	Peak Max	V	176	226	74	-15.79	Pass
4089.023	37.72	8.73	11.84	58.28	Peak Max	V	150	80	74	-15.72	Pass
6119.563	36.5	10.63	10.78	57.91	Peak Max	H	131	218	74	-16.09	Pass
4157.539	25.96	8.9	11.54	46.4	Average Max	V	176	226	54	-7.6	Pass
4089.023	25.9	8.73	11.84	46.46	Average Max	V	150	80	54	-7.54	Pass
6119.563	24.95	10.63	10.78	46.36	Average Max	H	131	218	54	-7.64	Pass

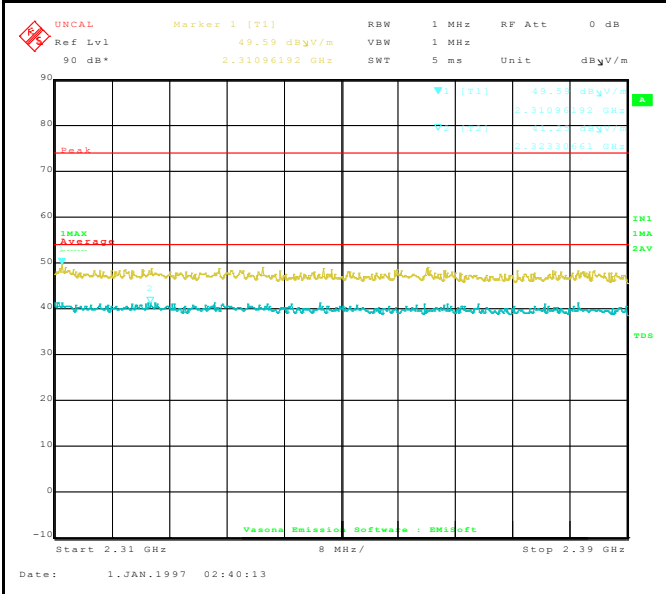
Restricted Band Test plot (Bluetooth BDR/EDR)



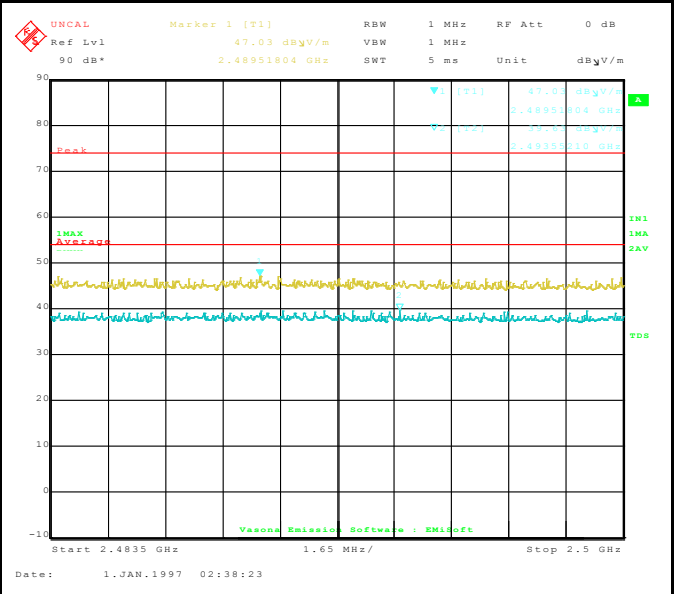
Restricted Band BDR 2402MHz



Restricted Band BDR 2480MHz



Restricted Band EDR 2402MHz


























Restricted Band EDR 2480MHz

Annex A. TEST INSTRUMENT

Instrument	Model	Serial #	Cal Date	Cal Cycle	Cal Due	In use
Conducted Emissions						
R & S Receiver	ESIB 40	100179	05/23/2015	1 Year	05/23/2016	<input checked="" type="checkbox"/>
CHASE LISN	MN2050B	1018	08/07/2015	1 Year	08/07/2016	<input checked="" type="checkbox"/>
Radiated Emissions						
R & S Receiver	ESL6	100178	05/27/2015	1 Year	05/27/2016	<input checked="" type="checkbox"/>
R & S Receiver	ESIB 40	100179	05/23/2015	1 Year	05/23/2016	<input checked="" type="checkbox"/>
Bi-Log antenna (30MHz~2GHz)	JB1	A030702	08/12/2015	1 Year	08/12/2016	<input checked="" type="checkbox"/>
3 Meters SAC	3M	N/A	08/08/2015	1 Year	08/08/2016	<input checked="" type="checkbox"/>
10 Meters SAC	10M	N/A	09/05/2015	1 Year	09/05/2016	<input checked="" type="checkbox"/>
RF Conducted Measurement						
Spectrum Analyzer	N9010A	10SL0219	08/20/2015	1 Year	08/20/2016	<input checked="" type="checkbox"/>
R & S Receiver	ESIB 40	100179	05/23/2015	1 Year	05/23/2016	<input checked="" type="checkbox"/>

Annex B. SIEMIC Accreditation

Accreditations	Document	Scope / Remark
ISO 17025 (A2LA)		Please see the documents for the detailed scope
ISO Guide 65 (A2LA)		Please see the documents for the detailed scope
TCB Designation		A1, A2, A3, A4, B1, B2, B3, B4, C
FCC DoC Accreditation		FCC Declaration of Conformity Accreditation
FCC Site Registration		3 meter site
FCC Site Registration		10 meter site
IC Site Registration		3 meter site
IC Site Registration		10 meter site
EU NB		Radio & Telecommunications Terminal Equipment: EN45001 – EN ISO/IEC 17025
		Electromagnetic Compatibility: EN45001 – EN ISO/IEC 17025
Singapore iDA CB(Certification Body)	 	Phase I, Phase II
Vietnam MIC CAB Accreditation		Please see the document for the detailed scope
Hong Kong OFCA		(Phase II) OFCA Foreign Certification Body for Radio and Telecom
		(Phase I) Conformity Assessment Body for Radio and Telecom
Industry Canada CAB		Radio: Scope A – All Radio Standard Specification in Category I
		Telecom: CS-03 Part I, II, V, VI, VII, VIII

Japan Recognized Certification Body Designation		<p>Radio: A1. Terminal equipment for purpose of calling</p> <p>Telecom: B1. Specified radio equipment specified in Article 38-2, Paragraph 1, Item 1 of the Radio Law</p>
Korea CAB Accreditation		<p>EMI: KCC Notice 2008-39, RRL Notice 2008-3: CA Procedures for EMI KN22: Test Method for EMI</p> <p>EMS: KCC Notice 2008-38, RRL Notice 2008-4: CA Procedures for EMS KN24, KN61000-4-2, -4-3, -4-4, -4-5, -4-6, -4-8, -4-11: Test Method for EMS</p>
		<p>Radio: RRL Notice 2008-26, RRL Notice 2008-2, RRL Notice 2008-10, RRL Notice 2007-49, RRL Notice 2007-20, RRL Notice 2007-21, RRL Notice 2007-80, RRL Notice 2004-68</p> <p>Telecom: President Notice 20664, RRL Notice 2007-30, RRL Notice 2008-7 with attachments 1, 3, 5, 6; President Notice 20664, RRL Notice 2008-7 with attachment 4</p>
Taiwan NCC CAB Recognition		LP0002, PSTN01, ADSL01, ID0002, IS6100, CNS14336, PLMN07, PLMN01, PLMN08
Taiwan BSMI CAB Recognition		CNS 13438
Japan VCCI		<p>R-3083: Radiation 3 meter site</p> <p>C-3421: Main Ports Conducted Interference Measurement</p> <p>T-1597: Telecommunication Ports Conducted Interference Measurement</p>
Australia CAB Recognition		<p>EMC: AS/NZS CISPR 11, AS/NZS CISPR 14.1, AS/NZS CISPR22, AS/NZS 61000.6.3, AS/NZS 61000.6.4</p>
		<p>Radio communications: AS/NZS 4281, AS/NZS 4268, AS/NZS 4280.1, AS/NZS 4280.2, AS/NZS 4295, AS/NZS 4582, AS/NZS 4583, AS/NZS 4769.1, AS/NZS 4769.2, AS/NZS 4770, AS/NZS 4771</p> <p>Telecommunications: AS/ACIF S002:05, AS/ACIF S003:06, AS/ACIF S004:06 AS/ACIF S006:01, AS/ACIF S016:01, AS/ACIF S031:01, AS/ACIF S038:01, AS/ACIF S040:01, AS/ACIF S041:05, AS/ACIF S043.2:06, AS/ACIF S60950.1</p>
Australia NATA Recognition		AS/ACIF S002, AS/ACIF S003, AS/ACIF S004, AS/ACIF S006, AS/ACIF S016, AS/ACIF S031, AS/ACIF S038, AS/ACIF S040, AS/ACIF S041, AS/ACIF S043.2