

### **Leviton Manufacturing Company**

**Provolt Line Voltage Dimming Room Controllers** FCC 15.207:2016 FCC 15.247:2016 **Bluetooth LE Radio** 

Report # LEVT0119.2





NVLAP Lab Code: 200630-0

This report must not be used to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government of the United States of America. This Report may only be duplicated in its entirety





### Last Date of Test: January 5, 2016 Issue Date: January 28, 2020 Leviton Manufacturing Company Model: Provolt Line Voltage Dimming Room Controllers

### **Radio Equipment Testing**

### Standards

Specification	Method
FCC 15.207:2016	ANGL C62 10:2012 KDB 559074 D01 v02r02
FCC 15.247:2016	ANSI C03.10.2013, KDB 556074 D01 005105

Testing was performed to the version of the standard(s) in force at the date of testing. Since then, a newer version of the standard has been released. A comparison of the two versions of the standards has been made and the test results continue to show compliance to the latest version of the standards.

#### Results

Method Clause	Test Description	Applied	Results	Comments
6.2	AC Powerline Conducted Emissions	Yes	Pass	
6.5, 6.6, 11.12.1, 11.13.2	Spurious Radiated Emissions	Yes	Pass	
11.6	Duty Cycle	Yes	N/A	Characterization of radio operation.
11.8.2	Occupied Bandwidth	Yes	Pass	
11.9.2.2.4	Output Power	Yes	Pass	
11.10.2	Power Spectral Density	Yes	Pass	
11.11	Band Edge Compliance	Yes	Pass	
11.11	Spurious Conducted Emissions	Yes	Pass	

### **Deviations From Test Standards**

None

Approved By:

Kyle Holgate, Operations Manager

Product compliance is the responsibility of the client; therefore, the tests and equipment modes of operation represented in this report were agreed upon by the client, prior to testing. The results of this test pertain only to the sample(s) tested. The specific description is noted in each of the individual sections of the test report supporting this certificate of test. This report reflects only those tests from the referenced standards shown in the certificate of test. It does not include inspection or verification of labels, identification, marking or user information.

## **REVISION HISTORY**



Revision Number	Description	Date	Page Number
00	None		

# ACCREDITATIONS AND AUTHORIZATIONS



### **United States**

FCC - Designated by the FCC as a Telecommunications Certification Body (TCB). Certification chambers, Open Area Test Sites, and conducted measurement facilities are listed with the FCC.

A2LA - Accredited by A2LA to ISO / IEC 17065 as a product certifier. This allows Northwest EMC to certify transmitters to FCC and IC specifications.

NVLAP - Each laboratory is accredited by NVLAP to ISO 17025

#### Canada

IC - Recognized by Industry Canada as a Certification Body (CB). Certification chambers and Open Area Test Sites are filed with IC.

#### **European Union**

European Commission - Validated by the European Commission as a Notified Body under the R&TTE Directive.

#### Australia/New Zealand

**ACMA** - Recognized by ACMA as a CAB for the acceptance of test data.

#### Korea

MSIP / RRA - Recognized by KCC's RRA as a CAB for the acceptance of test data.

#### Japan

VCCI - Associate Member of the VCCI. Conducted and radiated measurement facilities are registered.

#### Taiwan

BSMI – Recognized by BSMI as a CAB for the acceptance of test data.

NCC - Recognized by NCC as a CAB for the acceptance of test data.

#### Singapore

**IDA** – Recognized by IDA as a CAB for the acceptance of test data.

#### Israel

**MOC** – Recognized by MOC as a CAB for the acceptance of test data.

### Hong Kong

OFCA – Recognized by OFCA as a CAB for the acceptance of test data.

#### Vietnam

MIC - Recognized by MIC as a CAB for the acceptance of test data.

### SCOPE

For details on the Scopes of our Accreditations, please visit: <u>http://www.nwemc.com/accreditations/</u> <u>http://gsi.nist.gov/global/docs/cabs/designations.html</u>

## **MEASUREMENT UNCERTAINTY**



### **Measurement Uncertainty**

When a measurement is made, the result will be different from the true or theoretically correct value. The difference is the result of tolerances in the measurement system that cannot be completely eliminated. To the extent that technology allows us, it has been our aim to minimize this error. Measurement uncertainty is a statistical expression of measurement error qualified by a probability distribution.

A measurement uncertainty estimation has been performed for each test per our internal quality document QM205.4.6. The estimation is used to compare the measured result with its "true" or theoretically correct value. The expanded measurement uncertainty (K=2) can be found included as part of the applicable test description page. Our measurement data meets or exceeds the measurement uncertainty requirements of the applicable specification; therefore, the test data can be compared directly to the specification limit to determine compliance. The calculations for estimating measurement uncertainty are based upon ETSI TR 100 028 (or CISPR 16-4-2 as applicable), and are available upon request.

The following table represents the Measurement Uncertainty (MU) budgets for each of the tests that may be contained in this report.

Test	+ MU	- MU
Frequency Accuracy (Hz)	0.0007%	-0.0007%
Amplitude Accuracy (dB)	1.2 dB	-1.2 dB
Conducted Power (dB)	0.3 dB	-0.3 dB
Radiated Power via Substitution (dB)	0.7 dB	-0.7 dB
Temperature (degrees C)	0.7°C	-0.7°C
Humidity (% RH)	2.5% RH	-2.5% RH
Voltage (AC)	1.0%	-1.0%
Voltage (DC)	0.7%	-0.7%
Field Strength (dB)	5.2 dB	-5.2 dB
AC Powerline Conducted Emissions (dB)	2.4 dB	-2.4 dB

## FACILITIES





California Labs OC01-13 41 Tesla Irvine, CA 92618	Minnesota Labs MN01-08, MN10 9349 W Broadway Ave. Brooklyn Park, MN 55445	New York Labs NY01-04 4939 Jordan Rd. Elbridge, NY 13060	Oregon Labs EV01-12 22975 NW Evergreen Pkwy Hillsboro, OR 97124	<b>Texas</b> Labs TX01-09 3801 E Plano Pkwy Plano, TX 75074	Washington Labs NC01-05 19201 120 <sup>th</sup> Ave NE Bothell, WA 98011
(949) 861-8918	(612)-638-5136	(315) 554-8214	(503) 844-4066	(469) 304-5255	(425)984-6600
		NV	LAP		
NVLAP Lab Code: 200676-0	NVLAP Lab Code: 200881-0	NVLAP Lab Code: 200761-0	NVLAP Lab Code: 200630-0	NVLAP Lab Code:201049-0	NVLAP Lab Code: 200629-0
Industry Canada					
2834B-1, 2834B-3	2834E-1	N/A	2834D-1, 2834D-2	2834G-1	2834F-1
		BS	мі		
SL2-IN-E-1154R	SL2-IN-E-1152R	N/A	SL2-IN-E-1017	SL2-IN-E-1158R	SL2-IN-E-1153R
VCCI					
A-0029	A-0109	N/A	A-0108	A-0201	A-0110
Recognized Phase I CAB for ACMA, BSMI, IDA, KCC/RRA, MIC, MOC, NCC, OFCA					
US0158	US0175	N/A	US0017	US0191	US0157



## **PRODUCT DESCRIPTION**



### **Client and Equipment Under Test (EUT) Information**

Company Name:	Leviton Manufacturing Company	
Address:	20497 SW Teton Avenue	
City, State, Zip:	Tualatin, OR 97062	
Test Requested By:	Mark Darula	
Model:	Provolt Line Voltage Dimming Room Controllers	
First Date of Test:	December 22, 2015	
Last Date of Test:	January 05, 2016	
Receipt Date of Samples:	December 16, 2015	
Equipment Design Stage:	Production	
Equipment Condition:	No Damage	

### Information Provided by the Party Requesting the Test

### Functional Description of the EUT:

Provolt Line Voltage Dimming Room Controllers, Bluetooth radio module with one antenna type

### Testing Objective:

To demonstrate compliance of the Bluetooth radio to FCC 15.247 requirements.

## **CONFIGURATIONS**



### Configuration LEVT0117-3

Software/Firmware Running during test	
Description	Version
RF Software (Smart RF Studio)	7.2.

EUT						
Description	Manufacturer	Model/Part Number	Serial Number			
Provolt Line Voltage Dimming Room Controllers	Leviton Manufacturing Company	06C20-MDW	M1			

Remote Equipment Outside of Test Setup Boundary							
Description Manufacturer Model/Part Number Serial Number							
Laptop Computer	Toshiba	Satellite C55-B5242X	8F023077P				
CC Debugger #1	Texas Instruments	None Provided	None Provided				
RF Transmitter (BLE)	Texas Instruments	Smart RF 05ER	0x5A85				

Cables					
Cable Type	Shield	Length (m)	Ferrite	Connection 1	Connection 2
AC Power	No	2.9m	No	Provolt Line Voltage Dimming Room Controllers	AC Mains
USB	Yes	3m	No	Laptop Computer	RF Transmitter (BLE)
USB	Yes	1.6m	No	Laptop Computer	CC Debugger #1

## **CONFIGURATIONS**



### Configuration LEVT0117-7

Software/Firmware Running during test	
Description	Version
RF Software (Smart RF Studio)	7.2.

EUT			
Description	Manufacturer	Model/Part Number	Serial Number
LV - 1 button switch (Multi-Tech)	Leviton Manufacturing Company	PLVSW-1L	None
Provolt Line Voltage Dimming Room Controllers	Leviton Manufacturing Company	06C20-MDW	M1

Remote Equipment Outside of Test Setup Boundary								
Description	Manufacturer	Model/Part Number	Serial Number					
Laptop Computer	Toshiba	Satellite C55-B5242X	8F023077P					
CC Debugger #1	Texas Instruments	None Provided	None Provided					
RF Transmitter (BLE)	Texas Instruments	Smart RF 05ER	0x5A85					

Cables							
Cable Type	Shield	Length (m)	Ferrite	Connection 1	Connection 2		
AC Power	No	2.9m	No	Provolt Line Voltage Dimming Room Controllers	AC Mains		
Low Voltage (Switch #1)	No	1.2m	No	Provolt Line Voltage Dimming Room Controllers	LV Switch #1		
Emergency Override Cable	No	1m	No	Provolt Line Voltage Dimming Room Controllers	Unterminated		
USB	Yes	3m	No	Laptop Computer	RF Transmitter (BLE)		
USB	Yes	1.6m	No	Laptop Computer	CC Debugger #1		
Low Voltage Control Cable (0-10) x 2	No	3.5m	No	Provolt Line Voltage Dimming Room Controllers	Unterminated		
Load Cable (AC) x2	No	3.5m	No	Provolt Line Voltage Dimming Room Controllers	Unterminated		

## CONFIGURATIONS



### Configuration LEVT0117-8

EUT								
Description	Manufacturer	Model/Part Number	Serial Number					
Provolt Line Voltage Dimming	Leviton Manufacturing		M1					
Room Controllers	Company							

Peripherals in test setup boundary							
Description	Manufacturer	Model/Part Number	Serial Number				
LV - 1 button switch (Multi-Tech)	Leviton Manufacturing Company	PLVSW-1L	None				
Tungsten incandescent bulbs x2	NA	NA	NA				

Cables								
Cable Type	Shield	Length (m)	Ferrite	Connection 1	Connection 2			
AC Power	No	2.9m	No	Provolt Line Voltage Dimming Room Controllers	AC Mains			
Low Voltage (Switch #1)	No	1.2m	No	Provolt Line Voltage Dimming Room Controllers	LV Switch #1			
Emergency Override Cable	No	1m	No	Provolt Line Voltage Dimming Room Controllers	Unterminated			
Low Voltage Control Cable (0- 10) x 2	No	3.5m	No	Provolt Line Voltage Dimming Room Controllers	Unterminated			
Load Cable (AC) x2	No	3.5m	No	Provolt Line Voltage Dimming Room Controllers	Tungsten incandescent bulbs x2			

## **MODIFICATIONS**



### **Equipment Modifications**

Item	Date	Test	Modification	Note	Disposition of EUT
1	12/22/2015	Occupied Bandwidth	Tested as delivered to Test Station.	No EMI suppression devices were added or modified during this test.	Scheduled testing was completed.
2	12/22/2015	Output Power	Tested as delivered to Test Station.	No EMI suppression devices were added or modified during this test.	EUT remained at Northwest EMC following the test.
3	12/22/2015	Power Spectral Density	Tested as delivered to Test Station.	No EMI suppression devices were added or modified during this test.	EUT remained at Northwest EMC following the test.
4	12/22/2015	Band Edge Compliance	Tested as delivered to Test Station.	No EMI suppression devices were added or modified during this test.	EUT remained at Northwest EMC following the test.
5	12/22/2015	Spurious Conducted Emissions	Tested as delivered to Test Station.	No EMI suppression devices were added or modified during this test.	EUT remained at Northwest EMC following the test.
6	12/28/2015	Spurious Radiated Emissions	Tested as delivered to Test Station.	No EMI suppression devices were added or modified during this test.	EUT remained at Northwest EMC following the test.
7	1/5/2016	AC Powerline Conducted Emissions	Tested as delivered to Test Station.	No EMI suppression devices were added or modified during this test.	Scheduled testing was completed.



### **TEST DESCRIPTION**

The EUT will be powered either directly or indirectly from the AC power line. Therefore, conducted emissions measurements were made on the AC input of the EUT, or on the AC input of the device used to power the EUT. The AC power line conducted emissions were measured with the EUT operating at the lowest, the highest, and a middle channel in the operational band. The EUT was transmitting at its maximum data rate. For each mode, the spectrum was scanned from 150 kHz to 30 MHz. The test setup and procedures were in accordance with ANSI C63.10.

#### TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Cal. Due
Receiver	Rohde & Schwarz	ESCI	ARH	3/11/2015	3/11/2016
LISN	Solar Electronics	9252-50-R-24-BNC	LIN	1/27/2015	1/27/2016
Cable - Conducted Cable					
Assembly	Northwest EMC	EVG, HHD, RKA	EVGA	5/12/2015	5/12/2016
	Fischer Custom				
LISN	Communications	FCC-LISN-50-50-4-01-600V	LJD	10/22/2015	10/22/2016

#### **MEASUREMENT UNCERTAINTY**

Description		
Expanded k=2	2.4 dB	-2.4 dB

#### **CONFIGURATIONS INVESTIGATED**

LEVT0117-8

#### **MODES INVESTIGATED**

Bluetooth set to Tx - High, 2480 MHz Bluetooth set to Tx - Low, 2402 MHz Bluetooth set to Tx - Mid, 2440 MHz



EUT:	Provolt Line	Voltage Dir	nming Room Controlle	Work Order:	LEVT0117			
Serial Number:	M1	M1				12/30/2015		
Customer:	Leviton Man	ufacturing (	Company		Temperature:	22.5°C		
Attendees:	Mark Darula				Relative Humidity:	29.8%		
Customer Proje	ct: None				Bar. Pressure:	1031 mb		
Tested By:	Jeff Alcoke				Job Site:	EV07		
Power:	277VAC/60H	Ηz			Configuration:	LEVT0117-8		
TEST SPECIFICATIONS								
Specification:				Method:				
FCC 15.207:20	15			ANSI C63.1	0:2013			
TEST PARA	METERS							
Run #:		Line:	Neutral	F	Add. Ext. Attenuation (dB	): 0		
COMMENTS								
None								
EUT OPERATING MODES								
Bluetooth set to Tx - Low, 2402 MHz								
DEVIATIONS FROM TEST STANDARD								

None









### **RESULTS - Run #5**

Quasi Peak Data - vs - Quasi Peak Limit							Average
Freq (MHz)	Amp. (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Margin (dB)	Freq (MHz)	Amp. (dBuV)
0.538	31.0	19.9	50.9	56.0	-5.1	0.538	22.6
0.598	30.7	19.9	50.6	56.0	-5.4	0.423	22.3
0.423	31.6	19.9	51.5	57.4	-5.9	0.598	20.3
1.146	29.7	20.0	49.7	56.0	-6.3	0.495	20.1
1.158	29.7	20.0	49.7	56.0	-6.3	1.158	19.7
1.199	29.5	20.0	49.5	56.0	-6.5	1.146	19.2
1.251	29.5	20.0	49.5	56.0	-6.5	1.946	19.1
1.294	29.3	20.0	49.3	56.0	-6.7	1.251	19.0
0.495	29.3	19.9	49.2	56.1	-6.9	2.789	18.8
1.305	29.0	20.0	49.0	56.0	-7.0	1.199	18.3
1.100	28.9	20.0	48.9	56.0	-7.1	1.294	18.2
1.946	28.8	20.0	48.8	56.0	-7.2	1.846	18.0
1.354	28.3	20.0	48.3	56.0	-7.7	1.100	17.9
2.789	27.9	20.1	48.0	56.0	-8.0	1.305	17.9
1.846	27.5	20.0	47.5	56.0	-8.5	1.354	17.7

Average Data - vs - Average Limit								
Freq (MHz)	Amp. (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Margin (dB)			
0.538	22.6	19.9	42.5	46.0	-3.5			
0.423	22.3	19.9	42.2	47.4	-5.2			
0.598	20.3	19.9	40.2	46.0	-5.8			
0.495	20.1	19.9	40.0	46.1	-6.1			
1.158	19.7	20.0	39.7	46.0	-6.3			
1.146	19.2	20.0	39.2	46.0	-6.8			
1.946	19.1	20.0	39.1	46.0	-6.9			
1.251	19.0	20.0	39.0	46.0	-7.0			
2.789	18.8	20.1	38.9	46.0	-7.1			
1.199	18.3	20.0	38.3	46.0	-7.7			
1.294	18.2	20.0	38.2	46.0	-7.8			
1.846	18.0	20.0	38.0	46.0	-8.0			
1.100	17.9	20.0	37.9	46.0	-8.1			
1.305	17.9	20.0	37.9	46.0	-8.1			
1.354	17.7	20.0	37.7	46.0	-8.3			

### CONCLUSION

Pass

Tested By



EUT:	Provolt Line	Voltage Di	mming Room Controll	Work Order:	LEVT0117			
Serial Number:	M1				Date:	12/30/2015		
Customer:	Leviton Man	ufacturing (	Company		Temperature:	22.5°C		
Attendees:	Mark Darula				Relative Humidity:	29.8%		
Customer Project	None				Bar. Pressure:	1031 mb		
Tested By:	Jeff Alcoke				Job Site:	EV07		
Power:	277VAC/60H	Ηz			Configuration:	LEVT0117-8		
TEST SPECIFICATIONS								
Specification:				Method:				
FCC 15.207:2015				ANSI C63.1	0:2013			
TEST PARAM	ETERS							
Run #: 6		Line:	High Line	1	Add. Ext. Attenuation (dB	): 0		
COMMENTS								
None								
EUT OPERATING MODES								
Bluetooth set to Tx - Low, 2402 MHz								
DEVIATIONS FROM TEST STANDARD								

None









### **RESULTS - Run #6**

Quasi Peak Data - vs - Quasi Peak Limit							
Freq (MHz)	Amp. (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Margin (dB)		
1.238	23.9	20.0	43.9	56.0	-12.1		
0.591	24.0	19.9	43.9	56.0	-12.1		
1.211	23.6	20.0	43.6	56.0	-12.4		
1.094	23.4	20.0	43.4	56.0	-12.6		
1.158	22.7	20.0	42.7	56.0	-13.3		
2.090	22.2	20.0	42.2	56.0	-13.8		

#### Average Data - vs - Average Limit

Freq (MHz)	Amp. (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Margin (dB)
1.238	14.2	20.0	34.2	46.0	-11.8
1.158	14.1	20.0	34.1	46.0	-11.9
2.090	14.0	20.0	34.0	46.0	-12.0
1.211	13.6	20.0	33.6	46.0	-12.4
0.591	13.6	19.9	33.5	46.0	-12.5
1.094	13.1	20.0	33.1	46.0	-12.9

### CONCLUSION

Pass

Tested By



EUT:	Provolt Line	Voltage Dir	nming Room Controlle	rs	Work Order:	LEVT0117	
Serial Number:	M1			Date:	12/30/2015		
Customer:	Leviton Man	ufacturing (	Company		Temperature:	22.5°C	
Attendees:	Mark Darula				Relative Humidity:	29.8%	
Customer Project:	None				Bar. Pressure:	1031 mb	
Tested By:	Jeff Alcoke				Job Site:	EV07	
Power:	277VAC/60H	lz			Configuration:	LEVT0117-8	
TEST SPECIFICATIONS							
Specification: Method:							
FCC 15.207:2015				ANSI C63.10	0:2013		
TEST PARAME	TERS						
Run #: 7		Line:	High Line	A	Add. Ext. Attenuation (dB	): 0	
COMMENTS							
None							
EUT OPERATING MODES							
Bluetooth set to Tx	- Mid, 2440 MI	Ηz					
<b>DEVIATIONS F</b>	ROM TEST	STAND	ARD				

None







### **RESULTS - Run #7**

Quasi Peak Data - vs - Quasi Peak Limit							
Freq (MHz)	Amp. (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Margin (dB)		
0.540	25.6	19.9	45.5	56.0	-10.5		
1.083	23.9	20.0	43.9	56.0	-12.1		
0.590	24.0	19.9	43.9	56.0	-12.1		
1.219	23.9	20.0	43.9	56.0	-12.1		
1.090	23.7	20.0	43.7	56.0	-12.3		
0.420	25.2	19.9	45.1	57.4	-12.3		
1.166	23.2	20.0	43.2	56.0	-12.8		
1.255	23.2	20.0	43.2	56.0	-12.8		
1.152	22.8	20.0	42.8	56.0	-13.2		
1.301	22.7	20.0	42.7	56.0	-13.3		
3.586	22.4	20.1	42.5	56.0	-13.5		

Average Data - vs - Average Limit							
Freq (MHz)	Amp. (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Margin (dB)		
0.540	16.8	19.9	36.7	46.0	-9.3		
3.586	15.5	20.1	35.6	46.0	-10.4		
0.420	16.9	19.9	36.8	47.4	-10.6		
1.166	14.2	20.0	34.2	46.0	-11.8		
1.255	14.1	20.0	34.1	46.0	-11.9		
1.152	14.0	20.0	34.0	46.0	-12.0		
1.219	13.9	20.0	33.9	46.0	-12.1		
1.083	13.6	20.0	33.6	46.0	-12.4		
0.590	13.6	19.9	33.5	46.0	-12.5		
1.090	13.3	20.0	33.3	46.0	-12.7		
1.301	13.1	20.0	33.1	46.0	-12.9		

### CONCLUSION

Pass

Tested By



EUT:		Provolt Line	Voltage Dir	mming Room Controlle	rs	Work Order:	LEVT0117
Serial Number	:	M1				Date:	12/30/2015
Customer:		Leviton Manu	ufacturing (	Company		Temperature:	22.5°C
Attendees:		Mark Darula				Relative Humidity:	29.8%
Customer Proj	ect:	None				Bar. Pressure:	1031 mb
Tested By:		Jeff Alcoke				Job Site:	EV07
Power:		277VAC/60H	lz			Configuration:	LEVT0117-8
TEST SPECIFICATIONS							
Specification: Method:							
FCC 15.207:2015 ANSI C63.10:201				0:2013			
TEST PARA	AME	TERS					
Run #:	8		Line:	Neutral	ŀ	Add. Ext. Attenuation (dB	): 0
COMMENT	S						
None							
EUT OPERATING MODES							
Bluetooth set to	o Tx ·	- Mid, 2440 Mł	Ηz				
DEVIATION	IS F	ROM TEST	STAND	ARD			

None









### **RESULTS - Run #8**

Q	Quasi Peak Data - vs - Quasi Peak Limit									
Freq (MHz)	Amp. (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Margin (dB)					
0.538	31.1	19.9	51.0	56.0	-5.0	0.				
0.594	31.1	19.9	51.0	56.0	-5.0	0.				
0.422	31.6	19.9	51.5	57.4	-5.9	0.				
1.169	30.0	20.0	50.0	56.0	-6.0	0.				
1.216	29.7	20.0	49.7	56.0	-6.3	1.				
1.158	29.5	20.0	49.5	56.0	-6.5	1.				
0.494	29.5	19.9	49.4	56.1	-6.7	1.				
1.259	29.1	20.0	49.1	56.0	-6.9	1.				
1.306	29.0	20.0	49.0	56.0	-7.0	2.				
1.949	28.9	20.0	48.9	56.0	-7.1	1.				
2.042	28.8	20.0	48.8	56.0	-7.2	2.				
1.101	28.7	20.0	48.7	56.0	-7.3	1.				
1.337	28.7	20.0	48.7	56.0	-7.3	1.				
1.991	28.4	20.0	48.4	56.0	-7.6	1.				
1.058	28.0	20.0	48.0	56.0	-8.0	1.				
2.714	27.4	20.1	47.5	56.0	-8.5	1.				

Average Data - vs - Average Limit							
Freq (MHz)	Amp. (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Margin (dB)		
0.538	22.7	19.9	42.6	46.0	-3.4		
0.422	22.5	19.9	42.4	47.4	-5.0		
0.494	20.1	19.9	40.0	46.1	-6.1		
0.594	20.0	19.9	39.9	46.0	-6.1		
1.158	19.4	20.0	39.4	46.0	-6.6		
1.169	19.3	20.0	39.3	46.0	-6.7		
1.949	19.2	20.0	39.2	46.0	-6.8		
1.259	18.9	20.0	38.9	46.0	-7.1		
2.042	18.8	20.0	38.8	46.0	-7.2		
1.216	18.7	20.0	38.7	46.0	-7.3		
2.714	18.4	20.1	38.5	46.0	-7.5		
1.991	18.2	20.0	38.2	46.0	-7.8		
1.058	17.9	20.0	37.9	46.0	-8.1		
1.306	17.7	20.0	37.7	46.0	-8.3		
1.101	17.7	20.0	37.7	46.0	-8.3		
1.337	17.7	20.0	37.7	46.0	-8.3		

### CONCLUSION

Pass

Tested By



EUT:	Provolt Line	Voltage Di	mming Room Controlle	rs	Work Order:	LEVT0117	
Serial Number:	M1	M1				12/30/2015	
Customer:	Leviton Man	ufacturing (	Company		Temperature:	22.5°C	
Attendees:	Mark Darula				Relative Humidity:	29.8%	
Customer Project:	None				Bar. Pressure:	1031 mb	
Tested By:	Jeff Alcoke				Job Site:	EV07	
Power:	277VAC/60H	Ηz			Configuration:	LEVT0117-8	
TEST SPECIFICATIONS							
Specification: Method:							
FCC 15.207:2015 ANSI C63.10:2013				0:2013			
TEST PARAM	ETERS						
Run #: 9		Line:	Neutral	F	Add. Ext. Attenuation (dB	): 0	
COMMENTS							
None							
EUT OPERATING MODES							
Bluetooth set to T	k - High, 2480 M	1Hz					
DEVIATIONS	FROM TEST	STAND	ARD				

None









### **RESULTS - Run #9**

Quasi Peak Data - vs - Quasi Peak Limit							
Freq (MHz)	Amp. (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Margin (dB)		
0.539	31.1	19.9	51.0	56.0	-5.0		
0.599	30.5	19.9	50.4	56.0	-5.6		
1.134	29.8	20.0	49.8	56.0	-6.2		
0.419	31.2	19.9	51.1	57.5	-6.4		
1.159	29.6	20.0	49.6	56.0	-6.4		
1.248	29.5	20.0	49.5	56.0	-6.5		
1.203	29.4	20.0	49.4	56.0	-6.6		
1.277	29.2	20.0	49.2	56.0	-6.8		
1.301	29.0	20.0	49.0	56.0	-7.0		
1.104	28.8	20.0	48.8	56.0	-7.2		
2.040	28.8	20.0	48.8	56.0	-7.2		
1.950	28.7	20.0	48.7	56.0	-7.3		

Average Data - vs - Average Limit							
Freq (MHz)	Amp. (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Margin (dB)		
0.539	22.6	19.9	42.5	46.0	-3.5		
0.419	22.3	19.9	42.2	47.5	-5.3		
0.599	20.1	19.9	40.0	46.0	-6.0		
1.159	19.5	20.0	39.5	46.0	-6.5		
1.134	19.2	20.0	39.2	46.0	-6.8		
1.950	19.1	20.0	39.1	46.0	-6.9		
1.248	19.0	20.0	39.0	46.0	-7.0		
2.040	18.7	20.0	38.7	46.0	-7.3		
1.277	18.5	20.0	38.5	46.0	-7.5		
1.203	18.3	20.0	38.3	46.0	-7.7		
1.301	17.8	20.0	37.8	46.0	-8.2		
1.104	17.8	20.0	37.8	46.0	-8.2		

### CONCLUSION

Pass

Tested By



EUT:	Provolt Line	Voltage Dir	mming Room Control	lers	Work Order:	LEVT0117	
Serial Number:	M1	M1				12/30/2015	
Customer:	Leviton Man	ufacturing (	Company		Temperature:	22.5°C	
Attendees:	Mark Darula				Relative Humidity:	29.8%	
Customer Project	t: None				Bar. Pressure:	1031 mb	
Tested By:	Jeff Alcoke				Job Site:	EV07	
Power:	277VAC/60H	Ηz			Configuration:	LEVT0117-8	
TEST SPECIFICATIONS							
Specification: Method:							
FCC 15.207:201	5			ANSI C63.1	10:2013		
TEST PARA	<b>METERS</b>						
Run #: 1	)	Line:	High Line		Add. Ext. Attenuation (dB	3): 0	
COMMENTS							
None							
EUT OPERATING MODES							
Bluetooth set to	Tx - High, 2480 N	1Hz					
DEVIATIONS	FROM TEST	STAND	ARD				

None







### **RESULTS - Run #10**

Q	Quasi Peak Data - vs - Quasi Peak Limit						
Freq (MHz)	Amp. (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Margin (dB)		
1.200	23.5	20.0	43.5	56.0	-12.5		
1.093	23.4	20.0	43.4	56.0	-12.6		
0.421	24.9	19.9	44.8	57.4	-12.6		
1.118	23.2	20.0	43.2	56.0	-12.8		
1.271	22.8	20.0	42.8	56.0	-13.2		
2.042	22.7	20.0	42.7	56.0	-13.3		
16.500	18.6	20.6	39.2	60.0	-20.8		

Average Data - vs - Average Limit						
Freq (MHz)	Amp. (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Margin (dB)	
0.421	16.5	19.9	36.4	47.4	-11.0	
2.042	14.8	20.0	34.8	46.0	-11.2	
1.271	13.8	20.0	33.8	46.0	-12.2	
1.200	13.5	20.0	33.5	46.0	-12.5	
1.118	13.3	20.0	33.3	46.0	-12.7	
1.093	13.2	20.0	33.2	46.0	-12.8	
16 500	92	20.6	29.8	50.0	-20.2	

### CONCLUSION

Pass

Tested By



EUT:	Provolt Line	Voltage Dir	nming Room Control	ers	Work Order:	LEVT0117
Serial Number:	M1	M1			Date:	01/05/2016
Customer:	Leviton Man	ufacturing (	Company		Temperature:	22.5°C
Attendees:	None				Relative Humidity:	29.6%
Customer Project:	None				Bar. Pressure:	1000 mb
Tested By:	Jeff Alcoke				Job Site:	EV07
Power:	110VAC/60H	lz			Configuration:	LEVT0117-8
TEST SPECIFICATIONS						
Specification: Method:						
FCC 15.207:2016 ANSI C63.10:2013						
TEST PARAM	ETERS					
Run #: 22		Line:	High Line	A	Add. Ext. Attenuation (dB	): 0
COMMENTS						
None						
EUT OPERATING MODES						
Bluetooth set to T>	: - Low, 2402 M	Hz				
<b>DEVIATIONS</b>	DEVIATIONS FROM TEST STANDARD					

None





Average Data - vs - Average Limit



MHz



### **RESULTS - Run #22**

Quasi Peak Data - vs - Quasi Peak Limit					
Freq (MHz)	Amp. (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Margin (dB)
0.524	25.9	20.0	45.9	56.0	-10.1
6.904	24.9	20.6	45.5	60.0	-14.5
5.006	19.9	20.4	40.3	60.0	-19.7
1.993	14.3	20.2	34.5	56.0	-21.5
0.307	18.1	20.0	38.1	60.0	-21.9
0.205	17.5	20.1	37.6	63.4	-25.8

#### Average Data - vs - Average Limit

Freq (MHz)	Amp. (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Margin (dB)
0.524	17.4	20.0	37.4	46.0	-8.6
6.904	16.7	20.6	37.3	50.0	-12.7
5.006	11.9	20.4	32.3	50.0	-17.7
0.307	11.4	20.0	31.4	50.0	-18.6
1.993	4.6	20.2	24.8	46.0	-21.2
0.205	11.3	20.1	31.4	53.4	-22.0

### CONCLUSION

Pass

Tested By



EUT:	Provolt Line	Voltage Dir	nming Room Controlle	rs	Work Order:	LEVT0117
Serial Number:	M1	M1			Date:	01/05/2016
Customer:	Leviton Man	ufacturing (	Company		Temperature:	22.5°C
Attendees:	None				Relative Humidity:	29.6%
Customer Project	t: None				Bar. Pressure:	1000 mb
Tested By:	Jeff Alcoke				Job Site:	EV07
Power:	110VAC/60H	Ηz			Configuration:	LEVT0117-8
TEST SPECIFICATIONS						
Specification: Method:						
FCC 15.207:2016 ANSI C63.10:2013						
TEST PARAM	IETERS					
Run #: 23	3	Line:	Neutral	A	dd. Ext. Attenuation (dB	): 0
COMMENTS						
None						
EUT OPERATING MODES						
Bluetooth set to	rx - Low, 2402 N	IHz				
DEVIATIONS	DEVIATIONS FROM TEST STANDARD					

None





#### Average Data - vs - Average Limit



### **RESULTS - Run #23**

Quasi Peak Data - vs - Quasi Peak Limit							
Freq (MHz)	Amp. (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Margin (dB)		
0.524	33.7	20.0	53.7	56.0	-2.3		
6.409	28.3	20.6	48.9	60.0	-11.1		
1.006	22.4	20.1	42.5	56.0	-13.5		
0.308	26.0	20.0	46.0	60.0	-14.0	_	
1.991	21.4	20.2	41.6	56.0	-14.4		
0.205	24.7	20.1	44.8	63.4	-18.6	_	

#### Average Data - vs - Average Limit

Freq (MHz)	Amp. (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Margin (dB)
0.524	24.5	20.0	44.5	46.0	-1.5
6.409	19.2	20.6	39.8	50.0	-10.2
0.308	18.3	20.0	38.3	50.0	-11.7
1.006	11.9	20.1	32.0	46.0	-14.0
0.205	17.3	20.1	37.4	53.4	-16.0
1.991	9.5	20.2	29.7	46.0	-16.3

### CONCLUSION

Pass

Tested By



EUT:	Provolt Line	Voltage Dir	nming Room Controlle	rs	Work Order:	LEVT0117
Serial Number:	M1	M1			Date:	01/05/2016
Customer:	Leviton Man	ufacturing (	Company		Temperature:	22.5°C
Attendees:	None				Relative Humidity:	29.6%
Customer Project	: None				Bar. Pressure:	1000 mb
Tested By:	Jeff Alcoke				Job Site:	EV07
Power:	110VAC/60H	Ηz			Configuration:	LEVT0117-8
TEST SPECIFICATIONS						
Specification: Method:						
FCC 15.207:2016 ANSI C63.10:2013						
TEST PARAN	ETERS					
Run #: 25		Line:	Neutral	Α	dd. Ext. Attenuation (dB	): 0
COMMENTS						
None						
EUT OPERATING MODES						
Bluetooth set to T	x - Mid, 2440 M	Hz				
DEVIATIONS	DEVIATIONS FROM TEST STANDARD					

None





#### Average Data - vs - Average Limit



### **RESULTS - Run #25**

Q	Quasi Peak Data - vs - Quasi Peak Limit						
Freq (MHz)	Amp. (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Margin (dB)		
0.523	33.2	20.0	53.2	56.0	-2.8		
6.801	29.8	20.6	50.4	60.0	-9.6		
1.990	21.6	20.2	41.8	56.0	-14.2		
0.308	25.8	20.0	45.8	60.0	-14.2		
0.204	24.5	20.1	44.6	63.4	-18.8		
18.904	0.8	21.3	22.1	60.0	-37.9		

#### Average Data - vs - Average Limit

Freq (MHz)	Amp. (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Margin (dB)
0.523	24.4	20.0	44.4	46.0	-1.6
6.801	20.6	20.6	41.2	50.0	-8.8
0.308	18.2	20.0	38.2	50.0	-11.8
1.990	9.7	20.2	29.9	46.0	-16.1
0.204	17.1	20.1	37.2	53.4	-16.2
18.904	-4.2	21.3	17.1	50.0	-32.9

### CONCLUSION

Pass

Tested By



EUT:	Provolt Line	Voltage Dir	mming Room Controll	ers	Work Order:	LEVT0117
Serial Number:	M1	M1			Date:	01/05/2016
Customer:	Leviton Man	ufacturing (	Company		Temperature:	22.5°C
Attendees:	None				Relative Humidity:	29.6%
Customer Project	None				Bar. Pressure:	1000 mb
Tested By:	Jeff Alcoke				Job Site:	EV07
Power:	110VAC/60H	Ηz			Configuration:	LEVT0117-8
TEST SPECIFICATIONS						
Specification: Method:						
FCC 15.207:2016 ANSI C63.10:2013						
TEST PARAM	ETERS					
Run #: 26		Line:	High Line	l A	Add. Ext. Attenuation (dB	): 0
COMMENTS						
None						
EUT OPERATING MODES						
Bluetooth set to T	x - Mid, 2440 M	Hz				
DEVIATIONS FROM TEST STANDARD						

None







### **RESULTS - Run #26**

Quasi Peak Data - vs - Quasi Peak Limit											
Freq (MHz)	Amp. (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Margin (dB)						
0.524	25.7	20.0	45.7	56.0	-10.3						
6.701	25.1	20.6	45.7	60.0	-14.3						
1.006	14.6	20.1	34.7	56.0	-21.3						
0.307	18.0	20.0	38.0	60.0	-22.0						
0.204	17.2	20.1	37.3	63.4	-26.1						
16.991	6.1	21.2	27.3	60.0	-32.7						

### Average Data - vs - Average Limit

Freq (MHz)	Amp. (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Margin (dB)
0.524	17.3	20.0	37.3	46.0	-8.7
6.701	17.4	20.6	38.0	50.0	-12.0
0.307	11.2	20.0	31.2	50.0	-18.8
1.006	6.1	20.1	26.2	46.0	-19.8
0.204	11.1	20.1	31.2	53.4	-22.2
16.991	-1.0	21.2	20.2	50.0	-29.8

### CONCLUSION

Pass

Tested By



EUT:	F	Provolt Line \	Voltage Dir	nming Room Controlle	ſS	Work Order:	LEVT0117					
Serial Number:	Ν	M1				Date:	01/05/2016					
Customer:	L	Leviton Manu	ufacturing C	Company		Temperature:	22.5°C					
Attendees:	1	None			Relative Humidity:	29.6%						
Customer Proje	ect:	None			Bar. Pressure:	1000 mb						
Tested By:	,	Jeff Alcoke			Job Site:	EV07						
Power:	1	110VAC/60H	Z			Configuration:	LEVT0117-8					
TEST SPECIFICATIONS												
Specification:	Specification: Method:											
FCC 15.207:20	16				ANSI C63.10	0:2013						
TEST PARA	MET	ERS										
Run #:	27		Line:	High Line	A	dd. Ext. Attenuation (dB	): 0					
COMMENTS	5											
None												
EUT OPERATING MODES												
Bluetooth set to Tx - High, 2480 MHz												
DEVIATION	S FR	OM TEST	STAND	ARD								

None





1.0

10.0

MHz

100.0

Average Data - vs - Average Limit

40

30

20

10

0

0.1

0.200



### **RESULTS - Run #27**

Quasi Peak Data - vs - Quasi Peak Limit											
Freq (MHz)	Amp. (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Margin (dB)						
0.524	25.7	20.0	45.7	56.0	-10.3						
6.901	24.7	20.6	45.3	60.0	-14.7						
1.991	14.8	20.2	35.0	56.0	-21.0						
1.008	14.8	20.1	34.9	56.0	-21.1						
0.306	17.9	20.0	37.9	60.1	-22.2						
0.200	16.8	20.1	36.9	63.6	-26.7						

#### Average Data - vs - Average Limit Spec. Limit Amp. (dBuV) Factor Adjusted Freq Margin (MHz) (dBuV) (dB) (dBuV) (dB) 0.524 17.3 20.0 37.3 46.0 -8.7 6.901 17.1 20.6 37.7 50.0 -12.3 0.306 11.2 20.0 31.2 50.1 -18.9 26.3 1.008 6.2 20.1 46.0 -19.7 1.991 4.9 25.1 46.0 20.2 -20.9

20.1

10.9

### CONCLUSION

Pass

31.0

53.6

-22.6

Tested By



EUT:	Provolt Line	Voltage Dir	mming Room Controlle	rs	Work Order:	LEVT0117						
Serial Number:	M1				Date:	01/05/2016						
Customer:	Leviton Man	ufacturing (	Company		Temperature:	22.5°C						
Attendees:	None				Relative Humidity:	29.6%						
Customer Projec	: None			Bar. Pressure:	1000 mb							
Tested By:	Jeff Alcoke			Job Site:	EV07							
Power:	110VAC/60H	Ηz			Configuration:	LEVT0117-8						
TEST SPECIFICATIONS												
Specification:	Specification: Method:											
FCC 15.207:201	6			ANSI C63.10	0:2013							
TEST PARAM	IETERS											
Run #: 28		Line:	Neutral	A	dd. Ext. Attenuation (dB	): 0						
COMMENTS												
None												
EUT OPERATING MODES												
Bluetooth set to Tx - High, 2480 MHz												
DEVIATIONS	FROM TEST	STAND	ARD									

None









### **RESULTS - Run #28**

Quasi Peak Data - vs - Quasi Peak Limit												
Freq (MHz)	Amp. (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Margin (dB)							
0.527	34.1	20.0	54.1	56.0	-1.9							
6.904	29.3	20.6	49.9	60.0	-10.1							
1.009	22.1	20.1	42.2	56.0	-13.8							
1.992	21.6	20.2	41.8	56.0	-14.2							
0.307	25.8	20.0	45.8	60.1	-14.3							
0.206	24.5	20.1	44.6	63.4	-18.8							

### Average Data - vs - Average Limit

Freq (MHz)	Amp. (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Margin (dB)
0.527	24.2	20.0	44.2	46.0	-1.8
6.904	20.4	20.6	41.0	50.0	-9.0
0.307	18.2	20.0	38.2	50.1	-11.9
1.009	11.8	20.1	31.9	46.0	-14.1
1.992	10.0	20.2	30.2	46.0	-15.8
0.206	17.1	20.1	37.2	53.4	-16.2

### CONCLUSION

Pass

Tested By



### SPURIOUS RADIATED EMISSIONS

Testing was performed using the mode(s) of operation and configuration(s) noted within the report. The individuals and/or the organization requesting the test provided the modes, configurations and settings used to complete the evaluation. The actual test parameters are specified in the test data, this includes items such as investigated frequency range (scanned) and test levels. The testing methods and performance specifications, as well as the test site used for the evaluation are indicated in the test data. The test data represents the configuration / operating mode/ model that produced the highest emission levels as compared to the specification limit.

#### MODES OF OPERATION

#### POWER SETTINGS INVESTIGATED

277VAC/60Hz

#### **CONFIGURATIONS INVESTIGATED**

LEVT0117 - 7

#### FREQUENCY RANGE INVESTIGATED

Start Frequency 30 MHz

Stop Frequency 26.500 GHz

#### SAMPLE CALCULATIONS

Radiated Emissions: Field Strength = Measured Level + Antenna Factor + Cable Factor - Amplifier Gain + Distance Adjustment Factor + External Attenuation

#### **TEST EQUIPMENT**

Description	Manufacturer	Model	ID	Last Cal.	Interval
Analyzer - Spectrum Analyzer	Keysight	N9010A	AFN	2/10/2015	12 mo
Attenuator	Coaxicom	3910-20	AXZ	5/24/2015	12 mo
Cable	ESM Cable Corp.	KMKM-72	EVY	11/4/2015	12 mo
Amplifier - Pre-Amplifier	Miteq	AMF-6F-18002650-25-10P	AVU	11/4/2015	12 mo
Antenna - Standard Gain	ETS Lindgren	3160-09	AIV	NCR	0 mo
Amplifier - Pre-Amplifier	Miteq	AMF-6F-12001800-30-10P	AVD	4/16/2015	12 mo
Antenna - Standard Gain	ETS Lindgren	3160-08	AHV	NCR	0 mo
Cable	None	Standard Gain Horns Cable	EVF	4/20/2015	12 mo
Amplifier - Pre-Amplifier	Miteq	AMF-6F-08001200-30-10P	AVC	4/20/2015	12 mo
Antenna - Standard Gain	ETS Lindgren	3160-07	AHU	NCR	0 mo
Cable	N/A	Double Ridge Horn Cables	EVB	4/16/2015	12 mo
Amplifier - Pre-Amplifier	Miteq	AMF-3D-00100800-32-13P	PAG	4/16/2015	12 mo
Antenna - Double Ridge	ETS Lindgren	3115	AIZ	1/27/2014	24 mo
Cable	N/A	Bilog Cables	EVA	2/10/2015	12 mo
Amplifier - Pre-Amplifier	Miteq	AM-1616-1000	AOL	2/10/2015	12 mo
Antenna - Biconilog	EMCO	3141	AXE	8/29/2014	24 mo

#### **TEST DESCRIPTION**

The highest gain of each type of antenna to be used with the EUT was tested. The EUT was configured for low, mid, and high band transmit frequencies. For each configuration, the spectrum was scanned throughout the specified range. In addition, measurements were made in the restricted bands to verify compliance. While scanning, emissions from the EUT were maximized by rotating the EUT on a turntable, adjusting the position of the EUT and the EUT antenna in three orthogonal axis, and adjusting measurement antenna height and polarization. A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.



### SPURIOUS RADIATED EMISSIONS



Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Antenna Height (meters)	Azimuth (degrees)	Test Distance (meters)	External Attenuation (dB)	Polarity/ Transducer Type	Detector	Distance Adjustment (dB)	Adjusted (dBuV/m)	Spec. Limit (dBuV/m)	Compared to Spec. (dB)	
· · /													Comments
4804.208	37.4	7.4	1.0	336.0	3.0	0.0	Horz	AV	0.0	44.8	54.0	-9.2	Low EUT on side
4806.083	35.5	7.4	3.9	260.0	3.0	0.0	Horz	AV	0.0	42.9	54.0	-11.1	Low Horizontal EUT
7327.383	27.6	15.2	4.0	1.0	3.0	0.0	Horz	AV	0.0	42.8	54.0	-11.2	Mid EUT on side
4804.092	35.4	7.4	1.0	356.0	3.0	0.0	Vert	AV	0.0	42.8	54.0	-11.2	Low EUT cables Vertical
7440.717	27.3	15.4	1.0	147.0	3.0	0.0	Vert	AV	0.0	42.7	54.0	-11.3	High EUT Cables Vertical
7327.217	27.5	15.2	1.0	207.0	3.0	0.0	Vert	AV	0.0	42.7	54.0	-11.3	Mid EUT cables Vertical
7439.383	27.2	15.4	2.5	114.0	3.0	0.0	Horz	AV	0.0	42.6	54.0	-11.4	High EUT on side
4806.033	35.0	7.4	1.0	10.0	3.0	0.0	Horz	AV	0.0	42.4	54.0	-11.6	Low EUT cables Vertical
4806.042	34.8	7.4	4.0	321.0	3.0	0.0	Vert	AV	0.0	42.2	54.0	-11.8	Low Horizontal EUT
4959.833	34.6	7.5	1.0	329.0	3.0	0.0	Horz	AV	0.0	42.1	54.0	-11.9	High EUT on side
4959.933	34.3	7.5	1.0	9.0	3.0	0.0	Vert	AV	0.0	41.8	54.0	-12.2	High EUT Cables Vertical
4883.933	34.2	7.4	1.0	8.0	3.0	0.0	Vert	AV	0.0	41.6	54.0	-12.4	Mid EUT cables Vertical
4883.892	34.2	7.4	1.0	305.0	3.0	0.0	Horz	AV	0.0	41.6	54.0	-12.4	Mid EUT on side
4806.092	33.8	7.4	1.0	290.0	3.0	0.0	Vert	AV	0.0	41.2	54.0	-12.8	Low EUT on side
19219.430	34.4	0.7	0.0	360.0	3.0	0.0	Horz	AV	0.0	35.1	54.0	-18.9	Low EUT on side
19218.900	34.4	0.7	0.0	344.0	3.0	0.0	Vert	AV	0.0	35.1	54.0	-18.9	Low cables vertical
19215.540	34.4	0.7	0.0	195.0	3.0	0.0	Vert	AV	0.0	35.1	54.0	-18.9	High Cables Vertical
19213.550	34.4	0.7	0.0	23.0	3.0	0.0	Horz	AV	0.0	35.1	54.0	-18.9	High EUT on side
22323.980	33.9	1.0	0.0	37.0	3.0	0.0	Horz	AV	0.0	34.9	54.0	-19.1	High EUT on Side
7439.933	39.5	15.4	1.0	147.0	3.0	0.0	Vert	PK	0.0	54.9	74.0	-19.1	High EUT Cables Vertical
22319.100	33.9	1.0	0.0	14.0	3.0	0.0	Vert	AV	0.0	34.9	54.0	-19.1	High Cables Vertical
19537.550	34.5	0.4	0.0	199.0	3.0	0.0	Horz	AV	0.0	34.9	54.0	-19.1	Mid EUT on side

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Antenna Height (meters)	Azimuth (degrees)	Test Distance (meters)	External Attenuation (dB)	Polarity/ Transducer Type	Detector	Distance Adjustment (dB)	Adjusted (dBuV/m)	Spec. Limit (dBuV/m)	Compared to Spec. (dB)	Comments
19535.250	34.5	0.4	0.0	352.0	3.0	0.0	Vert	AV	0.0	34.9	54.0	-19.1	Mid Cables Vertical
7319.567	38.3	15.2	1.0	207.0	3.0	0.0	Vert	PK	0.0	53.5	74.0	-20.5	Mid EUT cables Vertical
7440.200	37.7	15.4	2.5	114.0	3.0	0.0	Horz	PK	0.0	53.1	74.0	-20.9	High EUT on side
7325.617	37.5	15.2	4.0	1.0	3.0	0.0	Horz	PK	0.0	52.7	74.0	-21.3	Mid EUT on side
4803.808	44.4	7.4	1.0	336.0	3.0	0.0	Horz	PK	0.0	51.8	74.0	-22.2	Low EUT on side
4803.683	43.8	7.4	1.0	356.0	3.0	0.0	Vert	PK	0.0	51.2	74.0	-22.8	Low EUT cables Vertical
4806.192	43.0	7.4	3.9	260.0	3.0	0.0	Horz	PK	0.0	50.4	74.0	-23.6	Low Horizontal EUT
4806.033	42.8	7.4	1.0	10.0	3.0	0.0	Horz	PK	0.0	50.2	74.0	-23.8	Low EUT cables Vertical
4883.833	42.7	7.4	1.0	305.0	3.0	0.0	Horz	PK	0.0	50.1	74.0	-23.9	Mid EUT on side
4806.117	42.4	7.4	4.0	321.0	3.0	0.0	Vert	PK	0.0	49.8	74.0	-24.2	Low Horizontal EUT
4960.450	42.2	7.5	1.0	329.0	3.0	0.0	Horz	PK	0.0	49.7	74.0	-24.3	High EUT on side
4959.417	42.1	7.5	1.0	9.0	3.0	0.0	Vert	PK	0.0	49.6	74.0	-24.4	High EUT Cables Vertical
4806.092	42.0	7.4	1.0	290.0	3.0	0.0	Vert	PK	0.0	49.4	74.0	-24.6	Low EUT on side
4883.417	41.4	7.4	1.0	8.0	3.0	0.0	Vert	PK	0.0	48.8	74.0	-25.2	Mid EUT cables Vertical
12398.910	26.4	1.9	1.0	340.0	3.0	0.0	Horz	AV	0.0	28.3	54.0	-25.7	High EUT on side
12396.720	26.3	1.9	1.0	57.0	3.0	0.0	Vert	AV	0.0	28.2	54.0	-25.8	High Cables Vertical
12011.280	28.0	0.1	1.0	73.0	3.0	0.0	Vert	AV	0.0	28.1	54.0	-25.9	Low cables vertical
12005.670	27.5	0.1	1.0	217.0	3.0	0.0	Horz	AV	0.0	27.6	54.0	-26.4	Low EUT on side
12203.480	26.4	1.1	1.0	223.0	3.0	0.0	Horz	AV	0.0	27.5	54.0	-26.5	Mid EUT On side
12205.400	26.3	1.2	1.0	111.0	3.0	0.0	Vert	AV	0.0	27.5	54.0	-26.5	Mid Cables Vertical
19216.130	46.3	0.7	0.0	195.0	3.0	0.0	Vert	PK	0.0	47.0	74.0	-27.0	High Cables Vertical
19215.770	46.2	0.7	0.0	23.0	3.0	0.0	Horz	PK	0.0	46.9	74.0	-27.1	High EUT on side
19220.200	44.9	0.7	0.0	344.0	3.0	0.0	Vert	PK	0.0	45.6	74.0	-28.4	Low Cables vertical
22322.950	44.3	1.0	0.0	14.0	3.0	0.0	Vert	PK	0.0	45.3	74.0	-28.7	High Cables Vertical
19540.180	44.9	0.4	0.0	352.0	3.0	0.0	Vert	PK	0.0	45.3	74.0	-28.7	Mid cables vertical
22319.300	44.0	1.0	0.0	37.0	3.0	0.0	Horz	PK	0.0	45.0	74.0	-29.0	High EUT on side
19216.180	44.3	0.7	0.0	360.0	3.0	0.0	Horz	PK	0.0	45.0	74.0	-29.0	Low EUT on side
19531.950	44.5	0.4	0.0	199.0	3.0	0.0	Horz	PK	0.0	44.9	74.0	-29.1	Mid Eut on side
12399.070	36.8	1.9	1.0	340.0	3.0	0.0	Horz	PK	0.0	38.7	74.0	-35.3	High EUT on side
12398.670	36.7	1.9	1.0	57.0	3.0	0.0	Vert	PK	0.0	38.6	74.0	-35.4	High Cables vertical
12010.550	38.4	0.1	1.0	217.0	3.0	0.0	Horz	PK	0.0	38.5	74.0	-35.5	Low EUT on side
12206.300	37.3	1.2	1.0	111.0	3.0	0.0	Vert	PK	0.0	38.5	74.0	-35.5	Mid Cables Vertical
12007.150	37.7	0.1	1.0	73.0	3.0	0.0	Vert	PK	0.0	37.8	74.0	-36.2	Low cables vertical
12208.470	36.3	1.2	1.0	223.0	3.0	0.0	Horz	PK	0.0	37.5	74.0	-36.5	Mid EUT on side



### SPURIOUS RADIATED EMISSIONS



	Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Antenna Height (meters)	Azimuth (degrees)	Test Distance (meters)	External Attenuation (dB)	Transducer Type	Detector	Distance Adjustment (dB)	Adjusted (dBuV/m)	Spec. Limit (dBuV/m)	Compared to Spec. (dB)	
ļ														Comments
	2483.513	31.1	-3.0	1.0	360.0	3.0	20.0	Horz	AV	0.0	48.1	54.0	-5.9	High EUT on side
	2483.533	30.9	-3.0	1.0	314.0	3.0	20.0	Vert	AV	0.0	47.9	54.0	-6.1	High Cables vertical
	2483.557	30.6	-3.0	1.0	2.0	3.0	20.0	Horz	AV	0.0	47.6	54.0	-6.4	High Horiizontal
	2483.523	30.5	-3.0	1.0	107.0	3.0	20.0	Vert	AV	0.0	47.5	54.0	-6.5	High Horizontal
	2483.610	30.1	-3.0	1.0	244.0	3.0	20.0	Vert	AV	0.0	47.1	54.0	-6.9	High EUT on side
	2483.540	30.0	-3.0	2.3	290.0	3.0	20.0	Horz	AV	0.0	47.0	54.0	-7.0	High Cables vertical
	2389.757	29.5	-3.3	1.0	199.0	3.0	20.0	Vert	AV	0.0	46.2	54.0	-7.8	High Cables Vertical
	2389.827	29.5	-3.3	1.0	317.0	3.0	20.0	Horz	AV	0.0	46.2	54.0	-7.8	High EUT On side
	2483.937	42.1	-3.0	1.0	2.0	3.0	20.0	Horz	PK	0.0	59.1	74.0	-14.9	High Horiizontal
	2483.510	42.1	-3.0	1.0	360.0	3.0	20.0	Horz	PK	0.0	59.1	74.0	-14.9	High EUT on side
	2483.613	41.8	-3.0	1.0	314.0	3.0	20.0	Vert	PK	0.0	58.8	74.0	-15.2	High Cables vertical
	2389.213	42.0	-3.3	1.0	317.0	3.0	20.0	Horz	PK	0.0	58.7	74.0	-15.3	High EUT on side
	2483.543	41.7	-3.0	1.0	244.0	3.0	20.0	Vert	PK	0.0	58.7	74.0	-15.3	High EUT on side
	2483.913	41.5	-3.0	2.3	290.0	3.0	20.0	Horz	PK	0.0	58.5	74.0	-15.5	High Cables vertical
	2483.583	41.4	-3.0	1.0	107.0	3.0	20.0	Vert	PK	0.0	58.4	74.0	-15.6	High Horizontal
	2388.483	41.1	-3.3	1.0	199.0	3.0	20.0	Vert	PK	0.0	57.8	74.0	-16.2	High cables Vertical

## **DUTY CYCLE**



#### **TEST DESCRIPTION**

The Duty Cycle (x) of the single channel operation of the radio as controlled by the provided test software was measured for each of the EUT operating modes.

There is no compliance requirement to be met by this test, so therefore no Pass / Fail criteria.

The measurements were made using a zero span on the spectrum analyzer to see the pulses in the time domain. The transmit power was set to its default maximum. A direct connection was made between the RF output of the EUT and a spectrum analyzer. Attenuation and a DC block were used

The test software provided for operation in a fixed, single channel mode allows the EUT to operate continuously at 100% Duty Cycle.



Testing was performed using the mode(s) of operation and configuration(s) noted within the report. The individuals and/or the organization requesting the test provided the modes, configurations and settings used to complete the evaluation. The actual test parameters are specified in the test data, this includes items such as investigated frequency range (scanned) and test levels. The testing methods and performance specifications, as well as the test site used for the evaluation are indicated in the test data.

#### **TEST EQUIPMENT**

					Interval
Description	Manufacturer	Model	ID	Last Cal.	(mo)
Block - DC	Fairview Microwave	SD3379	AMP	6/18/2015	12
Cable	ESM Cable Corp.	TT	EV1	NCR	0
Attenuator	S.M. Electronics	SA26B-20	AUY	7/14/2015	12
Analyzer - Spectrum Analyzer	Agilent	E4446A	AAQ	3/10/2015	12

#### **TEST DESCRIPTION**

The 6dB occupied bandwidth was measured using 100 kHz resolution bandwidth and 300 kHz video bandwidth. The 99.9% (approximate 26 dB) emission bandwidth (EBW) was also measured at the same time.

The EUT was set to the channels and modes listed in the datasheet. The measurement was made using a direct connection between the RF output of the EUT and the spectrum analyzer.



EUT: Provolt Line Voltage Dimming Room Controllers		Work Order:	LEVT0117	
Serial Number: M1		Date:	12/22/15	
Customer: Leviton Manufacturing Company		Temperature:	21.3°C	
Attendees: Mark Darula		Humidity:	36%	
Project: None		Barometric Pres.:	994.9	
Tested by: Cole Ghizzone, Rod Peloquin	Power: 110VAC/60Hz	Job Site:	EV06	
TEST SPECIFICATIONS	Test Method			
FCC 15.247:2015	ANSI C63.10:2013			
COMMENTS				
None				
DEVIATIONS FROM TEST STANDARD				
None				
Configuration # 3 Signature	by he Relay			
			Limit	
		Value	(≥)	Result
Low Channel, 2402 MHz		666.526 kHz	500 kHz	Pass
Mid Channel, 2442 MHz		672.096 kHz	500 kHz	Pass
High Channel, 2480 MHz		658.004 kHz	500 kHz	Pass











Testing was performed using the mode(s) of operation and configuration(s) noted within the report. The individuals and/or the organization requesting the test provided the modes, configurations and settings used to complete the evaluation. The actual test parameters are specified in the test data, this includes items such as investigated frequency range (scanned) and test levels. The testing methods and performance specifications, as well as the test site used for the evaluation are indicated in the test data.

#### **TEST EQUIPMENT**

					Interval
Description	Manufacturer	Model	ID	Last Cal.	(mo)
Cable	ESM Cable Corp.	TT	EV1	NCR	0
Block - DC	Fairview Microwave	SD3379	AMP	6/18/2015	12
Attenuator	S.M. Electronics	SA26B-20	AUY	7/14/2015	12
Analyzer - Spectrum Analyzer	Agilent	E4446A	AAQ	3/10/2015	12

#### **TEST DESCRIPTION**

The transmit frequency was set to the required channels in each band. The transmit power was set to its default maximum. A direct connection was made between the RF output of the EUT and a spectrum analyzer. Attenuation and a DC block were used. The reference level offset on the spectrum analyzer was adjusted to compensate for cable loss and the external attenuation used between the RF output and the spectrum analyzer input.

Prior to measuring peak transmit power the DTS bandwidth (B) and the transmission pulse duration (T) were measured. Both are required to determine the method of measuring Maximum Conducted Output Power. The transmission pulse duration (T) was measured using a zero span on the spectrum analyzer to see the pulses in the time domain.

The method found in ANSI C63.10:2013 Section 11.10.2 was used because the RBW on the analyzer was greater than the DTS Bandwidth of the radio.

De Facto EIRP Limit: Per 47 CFR 15.247 (b)(1-3), the EUT meets the de facto EIRP limit of +36 dBm.



EUT:	Provolt Line Voltage Dimming Room Controllers		Work Order:	LEVT0117	
Serial Number:	M1		Date:	12/22/15	
Customer:	Leviton Manufacturing Company		Temperature:	21.3°C	
Attendees:	Mark Darula		Humidity:	36%	
Project:	None		Barometric Pres.:	994.9	
Tested by:	Cole Ghizzone, Rod Peloguin Power: 1	10VAC/60Hz	Job Site:	EV06	
TEST SPECIFICATI	DNS 7	Test Method			
FCC 15.247:2015	4	ANSI C63.10:2013			
					·
COMMENTS					
DEVIATIONS FROM	TEST STANDARD				
None					
Configuration #	3 Rocky te	Reling			
				Limit	
			Value	(<)	Result
Low Channel, 2402 M	Hz		1.03 mW	1 Ŵ	Pass
Mid Channel, 2442 M	Hz		851.922 uW	1 W	Pass
High Channel, 2480	ЛНz		700.971 uW	1 W	Pass











Testing was performed using the mode(s) of operation and configuration(s) noted within the report. The individuals and/or the organization requesting the test provided the modes, configurations and settings used to complete the evaluation. The actual test parameters are specified in the test data, this includes items such as investigated frequency range (scanned) and test levels. The testing methods and performance specifications, as well as the test site used for the evaluation are indicated in the test data.

#### **TEST EQUIPMENT**

					Interval
Description	Manufacturer	Model	ID	Last Cal.	(mo)
Block - DC	Fairview Microwave	SD3379	AMP	6/18/2015	12
Cable	ESM Cable Corp.	TT	EV1	NCR	0
Attenuator	S.M. Electronics	SA26B-20	AUY	7/14/2015	12
Analyzer - Spectrum Analyzer	Agilent	E4446A	AAQ	3/10/2015	12

#### **TEST DESCRIPTION**

The maximum power spectral density measurements was measured using the channels and modes as called out on the following data sheets.

A direct connection was made between the RF output of the EUT and a spectrum analyzer. External attenuation and a DC block were used. The reference level offset on the spectrum analyzer was adjusted to compensate for cable loss and the external attenuation used between the RF output and the spectrum analyzer input.

Per the procedure outlined in ANSI C63.10 the peak power spectral density was measured in a 3 kHz RBW.



EUT:	Provolt Line Voltage Dimming Room Controllers	Work Order:	LEVT0117	
Serial Number:	M1	Date:	12/22/15	
Customer:	Leviton Manufacturing Company	Temperature:	21.3°C	
Attendees:	Mark Darula	Humidity:	36%	
Project:	None	Barometric Pres.:	994.9	
Tested by:	Cole Ghizzone, Rod Peloguin Power: 110VAC/60Hz	Job Site:	EV06	
TEST SPECIFICATI	ONS Test Method			
FCC 15.247:2015	ANSI C63.10:2013			
COMMENTS	÷			
None				
DEVIATIONS FROM	I TEST STANDARD			
None				
	DO I PO			
Configuration #	3 Porting to teleng			
	Signature			
		Value	Limit	
		dBm/3kHz	< dBm/3kHz	Results
L Ob	Al 1	10.050		
Low Unannel, 2402 I	VIEZ	-12,858	8	Pass
Mid Channel 2402 M	viHz /Hz	-12.858 -13.687	8	Pass
Mid Channel, 2442 M	NHZ NHZ NHY	-12.858 -13.687 -14.817	8 8 8	Pass Pass Pass









NORTHWEST

## **BAND EDGE COMPLIANCE**



Testing was performed using the mode(s) of operation and configuration(s) noted within the report. The individuals and/or the organization requesting the test provided the modes, configurations and settings used to complete the evaluation. The actual test parameters are specified in the test data, this includes items such as investigated frequency range (scanned) and test levels. The testing methods and performance specifications, as well as the test site used for the evaluation are indicated in the test data.

#### **TEST EQUIPMENT**

					Interval
Description	Manufacturer	Model	ID	Last Cal.	(mo)
Attenuator	S.M. Electronics	SA26B-20	AUY	7/14/2015	12
Block - DC	Fairview Microwave	SD3379	AMP	6/18/2015	12
Cable	ESM Cable Corp.	TT	EV1	NCR	0
Analyzer - Spectrum Analyzer	Agilent	E4446A	AAQ	3/10/2015	12

#### **TEST DESCRIPTION**

The spurious RF conducted emissions at the edges of the authorized bands were measured with the EUT set to low and high transmit frequencies in each available band. The channels closest to the band edges were selected. The measurement was made using a direct connection between the RF output of the EUT and the spectrum analyzer. The EUT was transmitting at the data rate(s) listed in the datasheet.

The spectrum was scanned below the lower band edge and above the higher band edge.

### **BAND EDGE COMPLIANCE**



EUT: Provolt Line Voltage Dimming Room Controllers		Work Order:	LEVT0117	
Serial Number: M1		Date:	12/22/15	
Customer: Leviton Manufacturing Company		Temperature:	21.2°C	
Attendees: Mark Darula		Humidity:	35%	
Project: None		Barometric Pres.:	994.9	
Tested by: Cole Ghizzone, Rod Peloquin	Power: 110VAC/60Hz	Job Site:	EV06	
TEST SPECIFICATIONS	Test Method			
FCC 15.247:2015	ANSI C63.10:2013			
COMMENTS				
None				
DEVIATIONS FROM TEST STANDARD				
None				
Configuration # 3 Signature	orly to Relengs			
		Value	Limit	
		(dBc)	≤ (dBc)	Result
Low Channel, 2402 MHz		-36.95	-20	Pass
High Channel, 2480 MHz		-44.96	-20	Pass

Report No. LEVT0119.2

### **BAND EDGE COMPLIANCE**









Testing was performed using the mode(s) of operation and configuration(s) noted within the report. The individuals and/or the organization requesting the test provided the modes, configurations and settings used to complete the evaluation. The actual test parameters are specified in the test data, this includes items such as investigated frequency range (scanned) and test levels. The testing methods and performance specifications, as well as the test site used for the evaluation are indicated in the test data.

#### **TEST EQUIPMENT**

					Interval
Description	Manufacturer	Model	ID	Last Cal.	(mo)
Cable	ESM Cable Corp.	TT	EV1	NCR	0
Block - DC	Fairview Microwave	SD3379	AMP	6/18/2015	12
Attenuator	S.M. Electronics	SA26B-20	AUY	7/14/2015	12
Analyzer - Spectrum Analyzer	Agilent	E4446A	AAQ	3/10/2015	12

#### **TEST DESCRIPTION**

The spurious RF conducted emissions were measured with the EUT set to low, medium and high transmit frequencies. The measurements were made using a direct connection between the RF output of the EUT and the spectrum analyzer. The EUT was transmitting at the data rate(s) listed in the datasheet. For each transmit frequency, the spectrum was scanned throughout the specified frequency range.



EUT:	Provolt Line Voltage Dimming Room Cont	rollers		Work Order:	LEVT0117	
Serial Number:	M1			Date:	12/22/15	
Customer:	Leviton Manufacturing Company			Temperature:	21.3°C	
Attendees:	Mark Darula			Humidity:	36%	
Project:	None			Barometric Pres.:	994.9	
Tested by:	Cole Ghizzone, Rod Peloquin	Power:	110VAC/60Hz	Job Site:	EV06	
TEST SPECIFICAT	ONS		Test Method			
FCC 15.247:2015			ANSI C63.10:2013			
COMMENTS						
None						
DEVIATIONS FROM	I TEST STANDARD					
None						
		1-0 1	P			
Configuration #	3	Rocky le	Pelings			
Configuration #	3 Sig	nature Rocky la	Release			
Configuration #	3 Sig	nature Rocky te	Frequency	Max Value	Limit	
Configuration #	3 Sig	nature Rocking be	Release Frequency Range	Max Value (dBc)	Limit ≤ (dBc)	Result
Configuration #	3 Sig	nature Rocky te	Frequency Range Fundamental	Max Value (dBc) N/A	Limit ≤(dBc) N/A	Result N/A
Configuration # Low Channel, 2402 Low Channel, 2402	3 Sig MHz MHz	nature Rocky be	Frequency Range Fundamental 30 MHz - 12.5 GHz	Max Value (dBc) N/A -45.43	Limit ≤ (dBc) N/A -20	Result N/A Pass
Configuration # Low Channel, 2402 Low Channel, 2402 Low Channel, 2402	3 MHz MHz MHz	nature Nochry te	Frequency Range Fundamental 30 MHz - 12.5 GHz 12.5 GHz - 25 GHz	Max Value (dBc) N/A -45.43 -46.6	Limit ≤ (dBc) N/A -20 -20	Result N/A Pass Pass
Low Channel, 2402 Low Channel, 2402 Low Channel, 2402 Mid Channel, 2442 Mid Channel, 2442	3 MHz MHz MHz MHz MHz	nature Rocky te	Frequency Range Fundamental 30 MHz - 12.5 GHz 12.5 GHz - 25 GHz Fundamental	Max Value (dBc) N/A -45.43 -46.6 N/A	Limit ≤ (dBc) N/A -20 -20 N/A	Result N/A Pass Pass N/A
Low Channel, 2402 Low Channel, 2402 Low Channel, 2402 Mid Channel, 2442 Mid Channel,	3 MHz MHz MHz AHz MHz	nature Rocky be	Frequency Range Fundamental 30 MHz - 12.5 GHz 12.5 GHz - 25 GHz Fundamental 30 MHz - 12.5 GHz	Max Value (dBc) N/A -45.43 -46.6 N/A -50.27	Limit ≤ (dBc) N/A -20 -20 N/A -20	Result N/A Pass Pass N/A Pass
Low Channel, 2402 Low Channel, 2402 Low Channel, 2402 Low Channel, 2402 Mid Channel, 2442 Mid Channel,	3 MHz MHz MHz MHz MHz MHz MHz	nature Rocky te	Frequency Range Fundamental 30 MHz - 12.5 GHz 12.5 GHz - 25 GHz Fundamental 30 MHz - 12.5 GHz 12.5 GHz - 25 GHz	Max Value (dBc) N/A -45.43 -46.6 N/A -50.27 -45.28	Limit ≤ (dBc) N/A -20 -20 N/A -20 -20	Result N/A Pass Pass N/A Pass Pass
Low Channel, 2402 Low Channel, 2402 Low Channel, 2402 Low Channel, 2402 Mid Channel, 2442 1 Mid Channel, 2442 1 High Channel, 2443 0	3 MHz MHz MHz MHz MHz MHz MHz MHz	nature Nochry te	Frequency Range Fundamental 30 MHz - 12.5 GHz 12.5 GHz - 25 GHz Fundamental 30 MHz - 12.5 GHz 12.5 GHz - 25 GHz Fundamental	Max Value (dBc) N/A -45.43 -46.6 N/A -50.27 -45.28 N/A	Limit ≤ (dBc) N/A -20 -20 N/A -20 -20 N/A	Result N/A Pass N/A Pass N/A N/A
Low Channel, 2402 Low Channel, 2402 Low Channel, 2402 Mid Channel, 2422 Mid Channel, 2442 I Mid Channel, 2442 I High Channel, 2480 High Channel, 2480	3 MHz MHz MHz MHz MHz MHz MHz MHz	nature	Frequency Range Fundamental 30 MHz - 12.5 GHz 12.5 GHz - 25 GHz Fundamental 30 MHz - 12.5 GHz 12.5 GHz - 25 GHz Fundamental 30 MHz - 12.5 GHz	Max Value (dBc) N/A -45.43 -46.6 N/A -50.27 -45.28 N/A -50.73	Limit ≤ (dBc) N/A -20 -20 -20 -20 -20 N/A -20 -20	Result N/A Pass Pass N/A Pass Pass N/A Pass



NORTHWEST











NORTHWEST



