TEST REPORT

Product Name:

Wi-Fi / BLE Wireless Cooking

Thermometer

Trade Mark: N/A

Model No. / HVIN: Weber Connect

Add. Model No. / HVIN: 3201,3202,3203,3204

Report Number: 190812016RFC-4

FCC 47 CFR Part 15 Subpart C

Test Standards: RSS-247 Issue 2 RSS-Gen Issue 5

FCC ID: 2AHSR-CONNECT1

IC: 21267-CONNECT1

Test Result: PASS

Date of Issue: November 19, 2019

Prepared for:

Weber-Stephen Products LLC 1415 S. Roselle Road, Palatine, IL 60067, USA

Prepared by:

Shenzhen UnionTrust Quality and Technology Co., Ltd. 16/F, Block A, Building 6, Baoneng Science and Technology Park, Qingxiang Road No.1, Longhua New District, Shenzhen, China

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Date:

November 19, 2019

Shenzhen UnionTrust Quality and Technology Co., Ltd.



Version

Version No.	Date	Description
V1.0	November 19, 2019	Original





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1. GENERAL INFORMATION 1.1 CLIENT INFORMATION

Applicant: Weber-Stephen Products LLC	
Address of Applicant: 1415 S. Roselle Road, Palatine, IL 60067, USA	
Manufacturer:	PCI Private Limited
Address of Manufacturer: 35 Pioneer Road North, Singapore 628475	

1.2 EUT INFORMATION

1.2.1 General Description of EUT

1.2.1 General Description of Eur			
Product Name:	Wi-Fi / BLE Wireless Cooking Thermometer		
Model No. / HVIN:	Weber Connect		
Add. Model No. / HVIN:	3201,3202,3203,3204		
Trade Mark:	N/A		
DUT Stage:	Identical Prototype		
FUT Supports Function.	2.4 GHz ISM Band:	IEEE 802.11b/g/n	
EUT Supports Function:		Bluetooth V4.0	
Software Version:	936		
Hardware Version:	P3		
Sample Received Date:	August 12, 2019		
Sample Tested Date:	August 12, 2019 to September 27, 2019		
Note: The additional model 3201,3202,3203,3204 is identical with the test model Weber Connect except the model number for marketing purpose.			

1.2.2 Description of Accessories

Battery				
Model No.:	GB1S1PMH1V2			
Battery Type:	Battery Type: Lithium-ion Rechargeable Battery			
Rated Voltage:	3.7 Vdc			
Limited Charge Voltage:	4.2 Vdc			
Rated Capacity:	3200 mAh			

Cable				
Description:	USB Micro-B Plug Cable			
Cable Type:	Unshielded without ferrite			
Length:	1.20 Meter			

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1.3 PRODUCT SPECIFICATION SUBJECTIVE TO THIS STANDARD

Frequency Band:	2400 MHz to 2483.5 MHz
Frequency Range:	2402 MHz to 2480 MHz
Bluetooth Version:	Bluetooth LE
Type of Modulation:	GFSK
Number of Channels:	40
Channel Separation:	2 MHz
Antenna Type:	Integral Antenna
Antenna Gain:	2.6 dBi
Normal Test Voltage:	3.7 Vdc

1.4 OTHER INFORMATION

Operation Frequency Each of Channel					
f = 2402 + 2k MHz, k = 0,,39					
Note:					
f	is the operating frequency (MHz);				
k	is the operating channel.				

1.5 DESCRIPTION OF SUPPORT UNITS

The EUT has been tested with associated equipment below.

1) Support Equipment

Description	Manufacturer	Model No.	Serial Number	Supplied by
Notebook	Lenovo	E450	SL10G10780	UnionTrust

2) Support Cable

Cable No.	Description	Connector	Length	Supplied by
1	Antenna Cable	SMA	0.30 Meter	UnionTrust

1.6 TEST LOCATION

Shenzhen UnionTrust Quality and Technology Co., Ltd.

Address: 16/F, Block A, Building 6, Baoneng Science and Technology Park, Qingxiang Road No.1, Longhua New

District, Shenzhen, China 518109 Telephone: +86 (0) 755 2823 0888 Fax: +86 (0) 755 2823 0886

1.7 TEST FACILITY

The test facility is recognized, certified, or accredited by the following organizations:

CNAS-Lab Code: L9069

The measuring equipment utilized to perform the tests documented in this report has been calibrated once a year or in accordance with the manufacturer's recommendations, and is traceable under the ISO/IEC/EN 17025

Shenzhen UnionTrust Quality and Technology Co., Ltd.

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to international or national standards. Equipment has been calibrated by accredited calibration laboratories.

A2LA-Lab Certificate No.: 4312.01

Shenzhen UnionTrust Quality and Technology Co., Ltd. has been accredited by A2LA for technical competence in the field of electrical testing, and proved to be in compliance with ISO/IEC 17025: 2005 General Requirements for the Competence of Testing and Calibration Laboratories and any additional program requirements in the identified field of testing.

ISED Wireless Device Testing Laboratories

CAB identifier: CN0032

FCC Accredited Lab.

Designation Number: CN1194

Test Firm Registration Number: 259480

1.8 DEVIATION FROM STANDARDS

None.

1.9 ABNORMALITIES FROM STANDARD CONDITIONS

None.

1.10OTHER INFORMATION REQUESTED BY THE CUSTOMER

None.

1.11 MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the Product as specified in CISPR 16-4-2. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

No.	Item	Measurement Uncertainty
1	Conducted emission 9KHz-150KHz	±3.8 dB
2	Conducted emission 150KHz-30MHz	±3.4 dB
3	Radiated emission 9KHz-30MHz	±4.9 dB
4	Radiated emission 30MHz-1GHz	±4.7 dB
5	Radiated emission 1GHz-18GHz	±5.1 dB
6	Radiated emission 18GHz-26GHz	±5.2 dB
7	Radiated emission 26GHz-40GHz	±5.2 dB



2. TEST SUMMARY

FCC 47 CFR Part 15 Subpart C Test Cases				
Test Item Test Requirement		Test Method	Result	
Antenna Requirement	FCC 47 CFR Part 15 Subpart C Section 15.203/15.247 (c) RSS-Gen Issue 5, Section 6.8	N/A	Verified (Note1)	
AC Power Line Conducted Emission	FCC 47 CFR Part 15 Subpart C Section 15.207 RSS-Gen Issue 5, Section 8.8	ANSI C63.10-2013 Clause 6.2	PASS	
Conducted Peak Output Power	FCC 47 CFR Part 15 Subpart C Section 15.247 (b)(3) RSS-247 Issue 2, Section 5.4(d)	ANSI C63.10-2013 Clause 11.9.1.3	Verified (Note1)	
6dB Bandwidth	FCC 47 CFR Part 15 Subpart C Section 15.247 (a)(2) RSS-247 Issue 2, Section 5.2(a)	ANSI C63.10-2013 Clause 11.8.1	Verified (Note1)	
Power Spectral Density	RSS-Gen Issue 5, Section 6.7	RSS-Gen Issue 5, Section 6.7	Verified (Note1)	
Conducted Out of Band Emission	FCC 47 CFR Part 15 Subpart C Section 15.247 (e) RSS-247 Issue 2, Section 5.2(b)	ANSI C63.10-2013 Clause 11.10.2	Verified (Note1)	
Radiated Spurious Emissions	FCC 47 CFR Part 15 Subpart C Section 15.247(d) RSS-247 Issue 2, Section 5.5	ANSI C63.10-2013 Clause 11.11	PASS	
Band Edge Measurements (Radiated)	FCC 47 CFR Part 15 Subpart C Section 15.205/15.209 RSS-Gen Issue 5, Section 6.13/8.9/8.10	ANSI C63.10-2013 Clause 11.11 & Clause 11.12	Verified (Note1)	

Note:

The Wi-Fi / BLE Wireless Cooking Thermometer equips with FCC/IC tested 2.4 WLAN and BLE Radio module. After evaluation, the certification is C2PC, Please refer to the report number: R12761322-E2, dated June. 13, 2019



3. EQUIPMENT LIST

	Radiated Emission Test Equipment List							
Used	Equipment	Manufacturer	Model No.	Serial Number	Cal. date (mm dd, yyyy)	Cal. Due date (mm dd, yyyy)		
\boxtimes	3M Chamber & Accessory Equipment	ETS-LINDGREN	3M	N/A	Dec. 03, 2018	Dec. 03, 2021		
\boxtimes	Receiver	R&S	ESIB26	100114	Nov. 24, 2018	Nov. 24, 2019		
\boxtimes	Loop Antenna	ETS-LINDGREN	6502	00202525	Dec. 03, 2018	Dec. 03, 2019		
\boxtimes	Broadband Antenna	ETS-LINDGREN	3142E	00201566	Dec. 08, 2018	Dec. 08, 2019		
\boxtimes	6dB Attenuator	Talent	RA6A5-N- 18	18103001	Dec. 08, 2018	Dec. 08, 2019		
\boxtimes	Preamplifier	HP	8447F	2805A02960	Nov. 24, 2018	Nov. 24, 2019		
	Broadband Antenna (Pre-amplifier)	ETS-LINDGREN	3142E-PA	00201891	May 19, 2018	May 18, 2020		
	6dB Attenuator	Talent	RA6A5-N- 18	18103002	Nov. 24, 2018	Nov. 24, 2019		
	Horn Antenna	ETS-LINDGREN	3117	00164202	Dec. 08, 2018	Dec. 08, 2019		
	Horn Antenna (Pre-amplifier)	ETS-LINDGREN	3117-PA	00201874	May 22, 2018	May 18, 2020		
	Horn Antenna (Pre-amplifier)	ETS-LINDGREN	3116C-PA	00202652	Jan. 05, 2019	Jan. 05, 2020		
	Multi device Controller	ETS-LINDGREN	7006-001	00160105	N/A	N/A		
	Band Rejection Filter (2400MHz~2500MHz)	Micro-Tronics	BRM50702	G248	Jun. 06, 2019	Jun. 06, 2020		
\boxtimes	Test Software	Audix	e3	Software Version: 9.160333				

	Conducted Emission Test Equipment List								
Used	Equipment	Manufacturer	Model No.	Serial Number	Cal. date (mm dd, yyyy)	Cal. Due date (mm dd, yyyy)			
\boxtimes	Receiver	R&S	ESR7	1316.3003K07 -101181-K3	Nov. 24, 2018	Nov. 24, 2019			
\boxtimes	Pulse Limiter	R&S	ESH3-Z2	0357.8810.54	Nov. 24, 2018	Nov. 24, 2019			
	LISN	R&S	ESH2-Z5	860014/024	Nov. 24, 2018	Nov. 24, 2019			
	LISN	ETS-Lindgren	3816/2SH	00201088	Nov. 24, 2018	Nov. 24, 2019			
\boxtimes	Test Software Audix e3 Software Version: 9.160323				0323				



4. TEST CONFIGURATION

4.1 ENVIRONMENTAL CONDITIONS FOR TESTING

4.1.1 Normal or Extreme Test Conditions

Environment Parameter	Selected Values During Tests					
Test Condition	Ambient					
rest Condition	Temperature (°C)	Voltage (V)	Relative Humidity (%)			
NT/NV	+15 to +35 3.7 20 to 75					
Remark: 1) NV: Normal Voltage; NT: Normal Temperature						

4.1.2 Record of Normal Environment

Test Item	Temperature (°C)	Relative Humidity (%)	Pressure (kPa)	Tested by
AC Power Line Conducted Emission	24.2	44	100.2	Bert Xiong
Radiated Spurious Emissions	25.2	52	100.02	Fire Huo

4.2 TEST CHANNELS

Type of Modulation	Tx/Rx Frequency	Test RF Channel Lists		
		Lowest(L)	Middle(M)	Highest(H)
GFSK	2402 MHz to 2480 MHz	Channel 0	Channel 19	Channel 39
		2402 MHz	2440 MHz	2480 MHz

4.3 EUT TEST STATUS

Type of Modulation	Tx Function	Description			
GFSK	1Tx	1. Keep the EUT in continuously transmitting with modulation test single.			

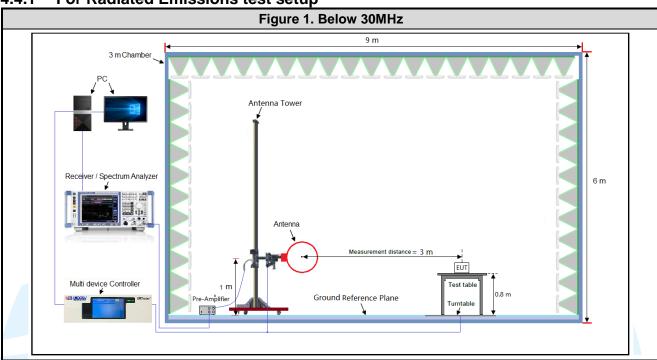
Power Setting	
Power Setting: not applicable, test used software default power level.	

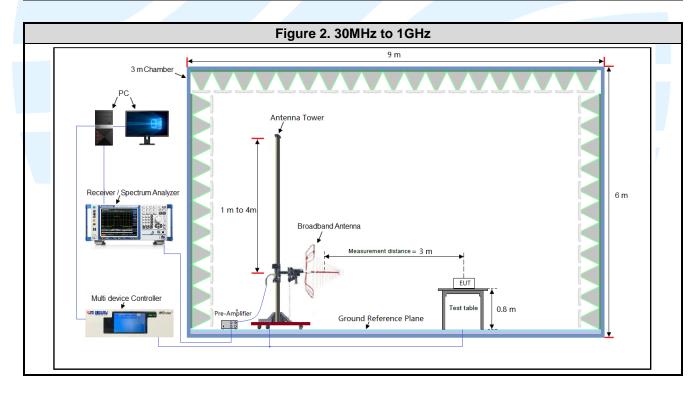
	Test	Software		
Test software name: Port command;				



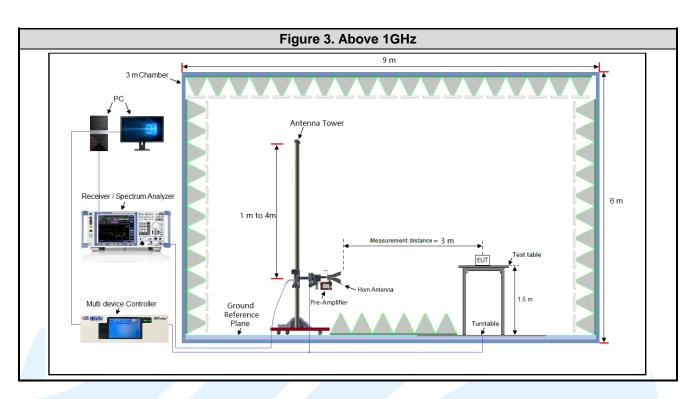
4.4TEST SETUP

4.4.1 For Radiated Emissions test setup

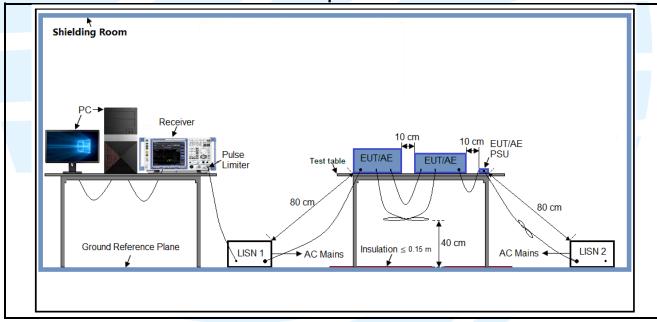








4.4.2 For Conducted Emissions test setup





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4.5 SYSTEM TEST CONFIGURATION

For emissions testing, the equipment under test (EUT) setup to transmit continuously to simplify the measurement methodology. Care was taken to ensure proper power supply voltages during testing. During testing, radiated emission were performed with the EUT set to transmit at the channel with highest output power as worst-case scenario. It was powered by a 3.7V battery. Only the worst case data were recorded in this test report.

The signal is maximized through rotation and placement in the three orthogonal axes. The antenna height and polarization are varied during the search for maximum signal level. The antenna height is varied from 1 to 4 meters. Radiated emissions are taken at three meters unless the signal level is too low for measurement at that distance. If necessary, a pre-amplifier is used and/or the test is conducted at a closer distance. Therefore, all final radiated testing was performed with the EUT in (see table below) orientation.

Frequency	Mode	Mode Antenna Port	
Above 1GHz	1TX	Chain 0	Z axis

All readings are extrapolated back to the equivalent three meter reading using inverse scaling with distance. Analyzer resolution is 100 kHz or greater for frequencies below 1000 MHz. The resolution is 1 MHz or greater for frequencies above 1000 MHz. The spurious emissions more than 20 dB below the permissible value are not reported.

Radiated emission measurement were performed from the lowest radio frequency signal generated in the device which is greater than 9 kHz to the tenth harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower.

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5. RADIO TECHNICAL REQUIREMENTS SPECIFICATION 5.1 REFERENCE DOCUMENTS FOR TESTING

No.	Identity	Document Title
1	FCC 47 CFR Part 2	Frequency allocations and radio treaty matters; general rules and regulations
2	FCC 47 CFR Part 15	Radio Frequency Devices
3	RSS-247 Issue 2	Digital Transmission Systems (DTSs), Frequency Hopping Systems (FHSs) and Licence-Exempt Local Area Network (LE-LAN) Devices
4	RSS-Gen Issue 5	General Requirements for Compliance of Radio Apparatus
5	ANSI C63.10-2013	American National Standard for Testing Unlicesed Wireless Devices
6	KDB 558074 D01 15.247 Meas Guidance v05r02	Guidance for compliance measurements on Digital Transmission Systems, Frequency Hopping Spread Spectrum system, and Hybrid system devices operating under Section 15.247 of the FCC rules



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5.2 RADIATED SPURIOUS EMISSIONS

Test Requirement: FCC 47 CFR Part 15 Subpart C Section 15.205/15.209

RSS-Gen Issue 5, Section 6.13/8.9/8.10

Test Method: ANSI C63.10-2013 Clause 11.11 & Clause 11.12

Receiver Setup:

Frequency	RBW
0.009 MHz-0.150 MHz	200/300 kHz
0.150 MHz -30 MHz	9/10 kHz
30 MHz-1 GHz	100/120 kHz
Above 1 GHz	1 MHz

Limits:

Spurious Emissions

Frequency	Field strength (microvolt/meter)	Limit (dBµV/m)	Remark	Measurement distance (m)
0.009 MHz-0.490 MHz	2400/F(kHz)	-		300
0.490 MHz-1.705 MHz	24000/F(kHz)			30
1.705 MHz-30 MHz	30			30
30 MHz-88 MHz	100	40.0	Quasi-peak	3
88 MHz-216 MHz	150	43.5	Quasi-peak	3
216 MHz-960 MHz	200	46.0	Quasi-peak	3
960MHz-1GHz	500	54.0	Quasi-peak	3
Above 1 GHz	500	54.0	Average	3

Remark:

- 1. The lower limit shall apply at the transition frequencies.
- Emission level (dBuV/m) = 20 log Emission level (uV/m).
- 3. For frequencies above 1000 MHz, the field strength limits are based on average detector, however, the peak field strength of any emission shall not exceed the maximum permitted average limits, specified above by more than 20 dB under any condition of modulation.

Test Setup: Refer to section 4.4.1 for details.

Test Procedures:

- 1. From 30 MHz to 1GHz test procedure as below:
- 1) The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation.
- 2) The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- 4) For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rota table table was turned from 0 degrees to 360 degrees to find the maximum reading.
- The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- 6) If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
- 2. Above 1GHz test procedure as below:
- 1) Different between above is the test site, change from Semi- Anechoic Chamber to fully Anechoic Chamber and change form table 0.8 meter to 1.5 meter (Above 18GHz the distance is 1 meter and table

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is 1.5 meter).

- 2) Test the EUT in the lowest channel ,middle channel, the Highest channel
- The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the Z axis positioning which it is worse case.
- 4) Repeat above procedures until all frequencies measured was complete.

Equipment Used: Refer to section 3 for details.

Test Result: Pass

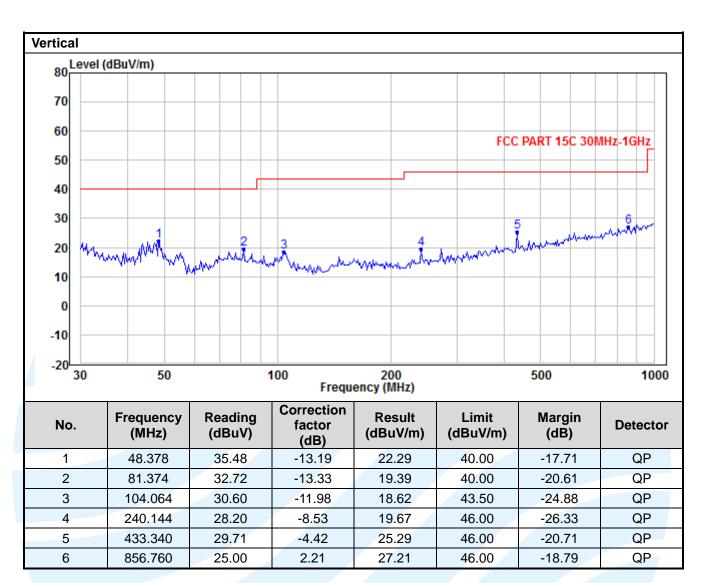
The measurement data as follows:

Radiated Emission Test Data (9 KHz ~ 30 MHz):

The amplitude of spurious emissions attenuated more than 20 dB below the permissible value is not required to be report.

Radiated Emission Test Data (30 MHz ~ 1 GHz): **Worst-Case Configuration** Horizontal 80 Level (dBuV/m) 70 60 FCC PART 15C 30MHz-1GHz 50 40 30 20 10 0 -10 -20 100 30 50 200 500 1000 Frequency (MHz) Correction Reading Frequency Result Limit Margin No. factor **Detector** (MHz) (dBuV) (dBuV/m) (dBuV/m) (dB) (dB) 1 47.703 36.68 -13.08 23.60 40.00 -16.40QP 2 81.374 31.98 40.00 QP -13.3318.65 -21.35QΡ 3 104.798 30.06 -12.0418.02 43.50 -25.48 4 25.85 -7.9217.93 46.00 -28.07 QP 263.115 5 368.668 28.67 -5.94 22.73 46.00 -23.27QP 6 624.490 30.44 -0.8629.58 46.00 -16.42 QP







Radiated Emission Test Data (Above 1GHz):

Lowest Channel:

No.	Frequency (MHz)	Reading (dBuV/m)	Correction factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Antenna Polaxis
1	4804.00	37.33	3.93	41.26	74.00	-32.74	Peak	Horizontal
2	4804.00	26.31	3.93	30.24	54.00	-23.76	Average	Horizontal
3	7206.00	40.36	6.76	47.12	74.00	-26.88	Peak	Horizontal
4	7206.00	29.40	6.76	36.16	54.00	-17.84	Average	Horizontal
5	4804.00	37.96	4.93	42.89	74.00	-31.11	Peak	Vertical
6	4804.00	27.79	4.93	32.72	54.00	-21.28	Average	Vertical
7	7206.00	41.37	6.34	47.71	74.00	-26.29	Peak	Vertical
8	7206.00	29.83	6.34	36.17	54.00	-17.83	Average	Vertical

Middle Channel:

No.	Frequency (MHz)	Reading (dBuV/m)	Correction factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Antenna Polaxis
1	4880.00	36.80	4.00	40.80	74.00	-33.20	Peak	Horizontal
2	4880.00	26.44	4.00	30.44	54.00	-23.56	Average	Horizontal
3	7320.00	40.43	6.98	47.41	74.00	-26.59	Peak	Horizontal
4	7320.00	29.22	6.98	36.20	54.00	-17.80	Average	Horizontal
5	4880.00	38.48	5.00	43.48	74.00	-30.52	Peak	Vertical
6	4880.00	27.54	5.00	32.54	54.00	-21.46	Average	Vertical
7	7320.00	40.82	6.48	47.30	74.00	-26.70	Peak	Vertical
8	7320.00	29.41	6.48	35.89	54.00	-18.11	Average	Vertical

Highest Channel:

9								
No.	Frequency (MHz)	Reading (dBuV/m)	Correction factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Antenna Polaxis
1	4960.00	35.90	4.06	39.96	74.00	-34.04	Peak	Horizontal
2	4960.00	24.76	4.06	28.82	54.00	-25.18	Average	Horizontal
3	7440.00	42.03	7.19	49.22	74.00	-24.78	Peak	Horizontal
4	7440.00	29.70	7.19	36.89	54.00	-17.11	Average	Horizontal
5	4960.00	37.75	5.06	42.81	74.00	-31.19	Peak	Vertical
6	4960.00	27.28	5.06	32.34	54.00	-21.66	Average	Vertical
7	7440.00	40.52	6.63	47.15	74.00	-26.85	Peak	Vertical
8	7440.00	29.07	6.63	35.70	54.00	-18.30	Average	Vertical

Remark:

- 1. Correct Factor = Antenna Factor + Cable Loss Amplifier Gain, the value was added to Original Receiver Reading by the software automatically.
- 2. Result = Reading + Correct Factor.
- 3. Margin = Result Limit



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5.3 CONDUCTED EMISSION

Test Requirement: 47 CFR Part 15C Section 15.207 RSS-Gen Issue 5, Section 8.8 ANSI C63.10-2013 Section 6.2

Limits:

Frequency range	Limits (dB(μV)				
(MHz)	Quasi-peak	Average			
0,15 to 0,50	66 to 56	56 to 46			
0,50 to 5	56	46			
5 to 30	60	50			

Remark:

- 1. The lower limit shall apply at the transition frequencies.
- 2. The limit decreases linearly with the logarithm of the frequency in the range 0.15 to 0.50 MHz.

Test Setup: Refer to section 4.4.2 for details.

Test Procedures:

Test frequency range: 150KHz-30MHz

- 1) The mains terminal disturbance voltage test was conducted in a shielded room.
- The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a 50Ω/50μH + 5Ω linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded.
- 3) The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane,
- 4) The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2.
- 5) In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10 on conducted measurement.

Equipment Used: Refer to section 3 for details.

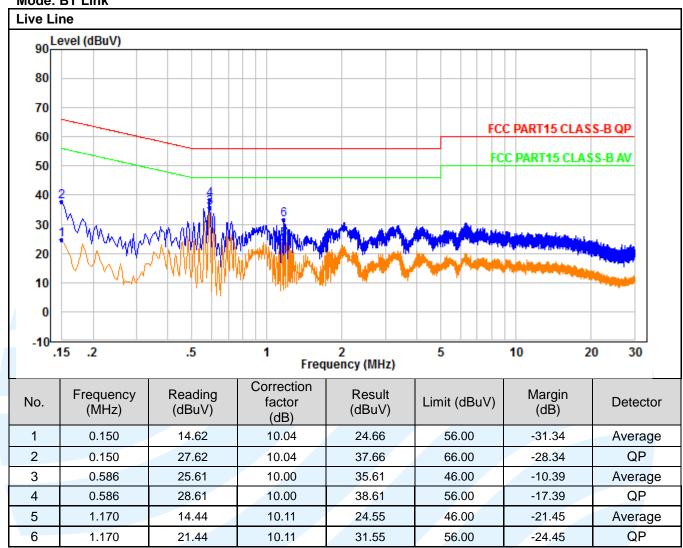
Test Result: Pass



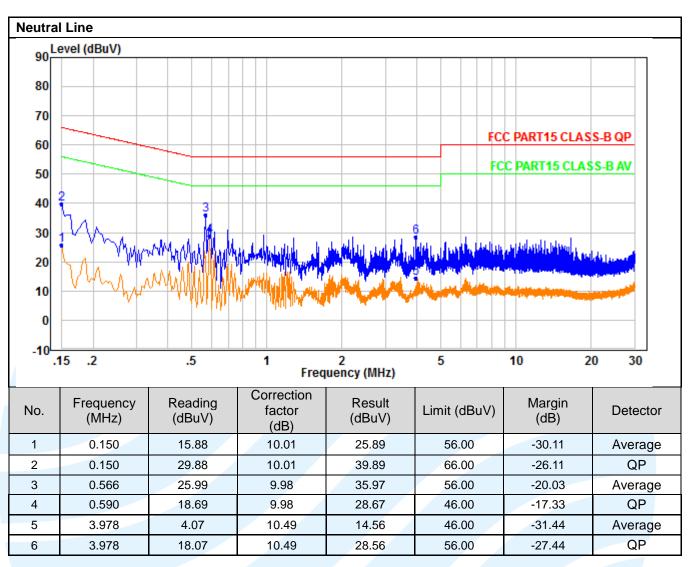
The measurement data as follows:

Quasi Peak and Average:

Mode: BT Link







Remark:

- Correct Factor = LISN Factor + Cable Loss + Pulse Limiter Factor, the value was added to Original Receiver Reading by the software automatically.
- Result = Reading + Correct Factor.
- 3. Margin = Result Limit
- 4. An initial pre-scan was performed on the Phase and neutral lines with peak detector. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission were detected.

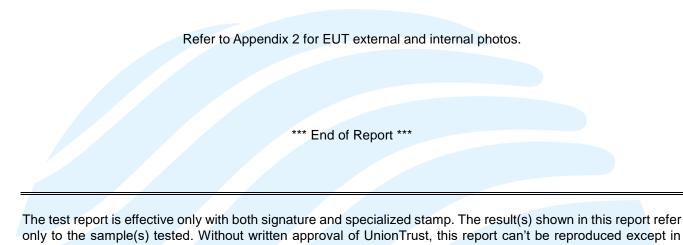


APPENDIX 1 PHOTOS OF TEST SETUP

See test photos attached in Appendix 1 for the actual connections between Product and support equipment.

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APPENDIX 2 PHOTOS OF EUT CONSTRUCTIONAL DETAILS



full.