

FCC TEST REPORT

Product Name: 3-in-1 Charger Stand

Trade Mark: heyday 🥏

Report No.: 24051711551RFC-1

dealwerthy™

Model No.: QIC37M

Add. Model No.: N/A

Report Number: 24051711551RFC-1

Test Standards: FCC 47 CFR Part 15 Subpart C

FCC ID: 2AO23-QIC37M

Test Result: PASS

Date of Issue: June 14, 2024

Prepared for:

CHUG, Inc. 7157 Shady Oak Rd, Eden Prairie MN 55344, United States

Prepared by:

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Version

Version No.	Date	Description
V1.0	June 14, 2024	Original

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1. GENERAL INFORMATION 1.1 CLIENT INFORMATION

Applicant:	CHUG, Inc.		
Address of Applicant:	7157 Shady Oak Rd, Eden Prairie MN 55344, United States		
Manufacturer 1:	PYS VIETNAM TECHNOLOGY COMPANY LIMITED		
Address of Manufacturer 1:	CN-06,ThuanThanh II industrial zone,Mao Dien commune,ThuanThanh district, BacNinh, Vietnam		
Manufacturer 2:	PYS High-Tech Co., Ltd.		
Address of Manufacturer 2:	1F~12F, Block 9, Lianhua Industrial Zone, Longhua, Shenzhen, Guangdong 518109 CHINA		

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1.2 EUT INFORMATION

1.2.1 General Description of EUT

1.2.1 Ocheral Descrip				
Product Name:	3-in-1 Charger Stand			
Model No.:	QIC37M			
Trade Mark:	heyday or dealwerthy™			
DUT Stage:	Identical Prototype			
Rated Voltage:	Powered by Adapter: Input: 100-240V~50/60Hz, 1 A Output: 5V==3A or 9V==3A or 12V==2.91A or 15V==2.33A or 20V==1.75A			
Software Version:	V1.2 (Provided by the customer)			
Hardware Version:	V1.2 (Provided by the customer)			
Sample Received Date:	May 17, 2024			
Sample Tested Date:	May 29, 2024 to June 6, 2024			
Remark: The above EUT's information was provided by customer. Please refer to the specifications or user's manual for more detailed description.				

1.2.2 Description of Accessories

Adapter					
Model No.:	PYS-D35PDJ-1CU				
Input:	100-240V~50/60Hz 1A				
Output:	5V==3A or 9V==3A or 12V==2.91A or 15V==2.33A or 20V==1.75A				

Cable					
Connector:	Connector: USB Type-C Plug Cable				
Cable Type:	Shielded without ferrite				
Length:	1.8Meter				



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1.3 PRODUCT SPECIFICATION SUBJECTIVE TO THIS STANDARD

	Transmitter 1(Airpods Wireless Charge): 115kHz to 205kHz		
Frequency Range:	Transmitter 2(I-Watch Wireless Charger): 326.5kHz		
	Transmitter 3(Wireless Charging MPP):127kHz/362.5kHz		
Wireless Output:	Air pods wireless Charge: 5W MAX I-Watch Charger: 5W MAX Wireless Charging MPP: 15W MAX		
Modulation type:	ASK		
Antenna Type: (Provided by the customer)	Induction coil antenna		

1.4 DESCRIPTION OF SUPPORT UNITS

The EUT has been tested with associated equipment below.

Description	Manufacturer	Manufacturer Model No.		Supplied by
iPhone 14 Pro Max	Apple	MQ8F3CH/A	X54CD26699	UnionTrust
Apple watch	Apple	A2092	G99CCKJ7MLTK	UnionTrust
Air Pods	Apple	Air Pods 3	NA	UnionTrust

1.5 TEST LOCATION

Shenzhen UnionTrust Quality and Technology Co., Ltd.

Address: Unit D/E of 9/F and 16/F, Block A, Building 6, Baoneng science and technology park, Longhua district,

Shenzhen, China

Telephone: +86 (0) 755 2823 0888 Fax: +86 (0) 755 2823 0886

1.6 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 17025 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 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



1.7 DEVIATION FROM STANDARDS

None.

1.8 ABNORMALITIES FROM STANDARD CONDITIONS

None.

1.9 OTHER INFORMATION REQUESTED BY THE CUSTOMER

None.

1.10MEASUREMENT 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	±3.2 dB		
2	Conducted emission 150kHz-30MHz	±2.7 dB		
3	Radiated emission 9kHz-30MHz	±4.7 dB		
4	Radiated emission 30MHz-1GHz	±4.6 dB		
5	Radiated emission 1GHz-18GHz	±4.4 dB		
6	Radiated emission 18GHz-40GHz	±4.6 dB		





2. TEST SUMMARY

FCC 47 CFR Part 15 Subpart C Test Cases					
Test Item	Test Method	Result			
Antenna Requirement	FCC 47 CFR Part 15 Subpart C Section 15.203	part C N/A			
20DB Bandwidth	FCC 47 CFR Part 15 Subpart C Section 15.215(c)	ANSI C63.10-2013	PASS		
Conducted Emission	FCC 47 CFR Part 15 Subpart C Section 15.207	ANSI C63.10-2013 Section 6.3 & 6.5 & 6.6	PASS		
Radiated Emission	FCC 47 CFR Part 15 Subpart C Section 15.205/15.209	ANSI C63.10-2013	PASS		

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3. EQUIPMENT LIST

	Radiated Emission Test Equipment List							
Used	Equipment	Manufacturer	Model No.	Serial Number	Cal. date	Cal. Due date		
Ø	3m SAC	ETS-LINDGREN	ЗМ	Euroshiedpn- CT001270-13 17	11-Nov-2023	10-Nov-2026		
V	Receiver	R&S	ESIB26	100114	27-Oct-2023	26-Oct-2024		
V	Loop Antenna	ETS-LINDGREN	6502	00202525	30-Oct-2023	29-Oct-2024		
V	Broadband Antenna	ETS-LINDGREN	3142E	00201566	30-Oct-2023	29-Oct-2024		
V	6dB Attenuator	Talent	RA6A5-N- 18	18103001	30-Oct-2023	29-Oct-2024		
Ø	Preamplifier	HP	8447F	2805A02960	31-Oct-2023	30-Oct-2024		
V	Multi device Controller	ETS-LINDGREN	7006-001	00160105	N/A	N/A		
Ø	Test Software	Audix	e3	e3 Software Version: 9.160323				

	Conducted Emission Test Equipment List									
Used	Jsed Equipment Manufacturer Model No. Serial Number Cal. date									
\square	Receiver	R&S	ESR7	101181	27-Oct-2023	26-Oct-2024				
\square	Pulse Limiter	R&S	ESH3-Z2	0357.8810.54	27-Oct-2023	26-Oct-2024				
\square	LISN	R&S	ESH2-Z5	860014/024	27-Oct-2023	26-Oct-2024				
	LISN	ETS-Lindgren	3816/2SH	00201088	27-Oct-2023	26-Oct-2024				
☑	Test Software	EZ-EMC	EZ-CON	Software Version: EMC-CON 3A1.1						

	20dB BW Test Equipment List								
Used	Used Equipment Manufacturer Model No. Serial Number Cal. date Cal. Due da								
\square	Spectrum analyzer	R&S	FSV40-N	101653	29-Mar-2024	28-Mar-2025			
\square	Loop Antenna	ETS-LINDGREN	6502	00202525	30-Oct-2023	29-Oct-2024			



4. TEST CONFIGURATION

4.1 ENVIRONMENTAL CONDITIONS FOR TESTING

4.1.1 Normal or Extreme Test Conditions

Environment Parameter	Selected Values During Tests						
	Ambient						
Test Condition	Temperature (°C)	Voltage (V)	Relative Humidity (%)				
NT/NV	+15 to +35	1. 120~60Hz 2. 240~50Hz	20 to 75				
Remark: 1) NV: Normal Voltage; NT: Normal Temperature							

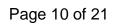
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4.1.2 Record of Normal Environment and Test Sample

Test Item	Temp. (°C)	Relative Humidity (%)	Pressure (kPa)	Sample No.	Tested by
Radiated Emission	23.2	66.3	100.2	S20205173445-ZJA01/2	Jackson Wu
Conducted Emission	23.0	61.6	100.4	320203173443-2JA01/2	Linson Xie

4.2TEST MODES

Test Item	EMI Test Modes						
Radiated Emission	Test Mode 1: Charging from Adapter 1 (with 120V~60Hz) + Wireless charging mode with phone (15W) Test Mode 2: Charging from Adapter 1 (with 120V~60Hz) + Wireless charging mode with Air Pods (5W) Test Mode 3: Charging from Adapter 1 (with 120V~60Hz) + Wireless charging mode with iWatch (5W) Test Mode 4: Charging from Adapter 1 (with 120V~60Hz) + Wireless charging mode with phone (15W) + Air Pods (5W) Test Mode 5: Charging from Adapter 1 (with 120V~60Hz) + Wireless charging mode with phone (15W) + iWatch (5W)						
Conducted Emission	Test Mode 6: Charging from Adapter 1 (with 120V~60Hz) + Wireless charging mode with iWatch (5W) + Air Pods (5W) Test Mode 7: Charging from Adapter 1 (with 120V~60Hz) + Wireless charging mode with phone (15W) + iWatch (5W) + Air Pods (5W) Test Mode 8: Charging from Adapter 1 (with 120V~60Hz) + Standby Test Mode 9: Charging from Adapter 1 (with 240V~50Hz) + Worst from Test Mode 1~8						





4.3 TEST SETUP

4.3.1 For Radiated Emissions test setup

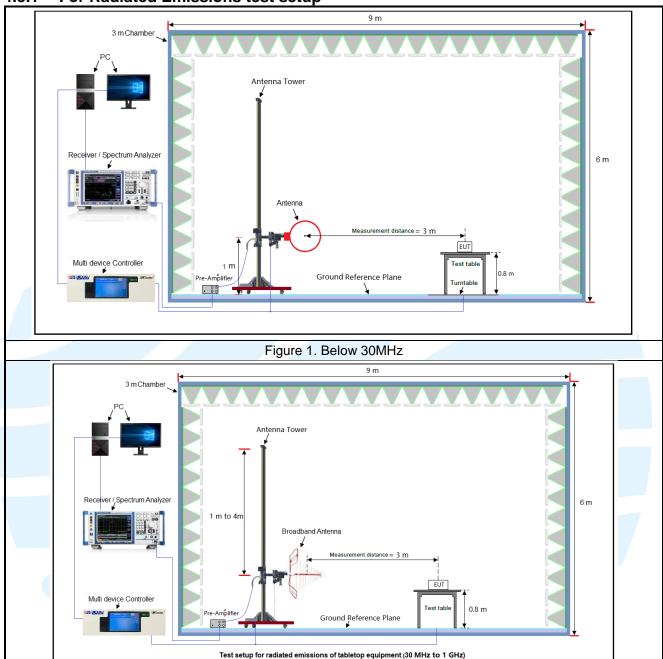
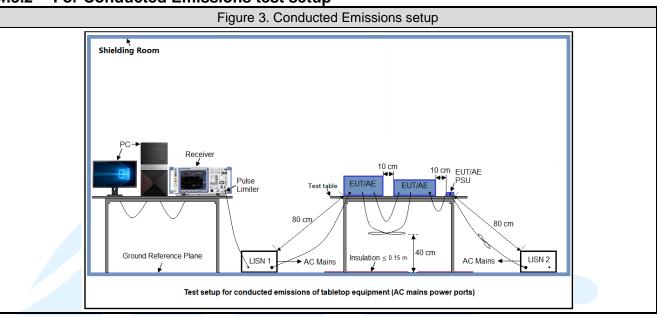


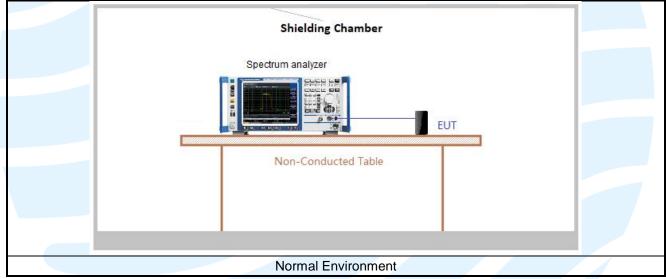
Figure 2. 30MHz to 1GHz



4.3.2 For Conducted Emissions test setup



4.3.3 For Conducted RF test setup



4.4 SYSTEM TEST CONFIGURATION

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 1000MHz. The resolution is 1 MHz or greater for frequencies above 1000MHz. 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 (according to KDB 896810 D02 SDoC FAQ v01r01) of the highest fundamental frequency or to 40 GHz, whichever is lower.



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5. REFERENCE DOCUMENTS FOR TESTING 5.1 REFERENCE DOCUMENTS FOR TESTING

No.	Identity	Document Title
1	FCC 47 CFR Part 15	Radio Frequency Devices
2	ANSI C63.10-2013	American National Standard for Testing Unlicesed Wireless Devices

5.2 ANTENNA REQUIREMENT

Standard Requirement

15.203 requirement:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

EUT Antenna:

This product has a permanent antenna, fulfill the requirement of this section.

5.320DB BANDWIDTH

Test Requirement: FCC 47 CFR Part 15 Subpart C Section 15.215 (c)

Test Method: ANSI C63.10

Test Procedure: Remove the antenna from the EUT and then connect a low loss RF cable from the

antenna port to the spectrum analyzer.

Use the following spectrum analyzer settings:

 The spectrum analyzer center frequency is set to the nominal EUT channel center frequency

b) Span = approximately 2 to 5 times the OBW

c) RBW = 1% to 5% of the OBW

d) VBW ≥ 3*RBW

e) Sweep = auto;

f) Detector function = peak

g) Trace = max hold

h) All the trace to stabilize, use the marker-to-peak function to set the marker to the peak of the emission, use the marker-delta function to measure and record the 20dB down bandwidth of the emission.

Note: The cable loss and attenuator loss were offset into measure device as an

amplitude offset.

Test Setup: Refer to section 4.4.3 for details. **Instruments Used:** Refer to section 3 for details

Test Mode: Transmitter mode

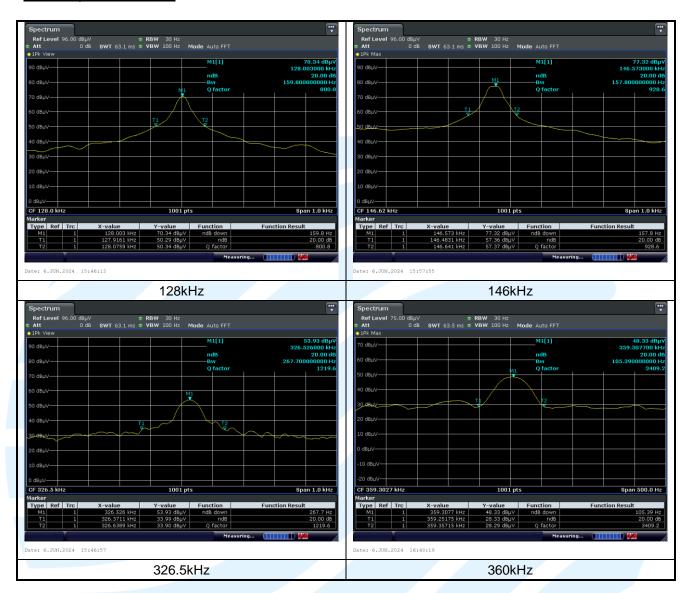
Test Results: Pass

Test Data:

Frequency	20 dB Bandwidth (Hz)		
127kHz (Transmitter 3)	159.8k		
146kHz(Transmitter 1)	157.8		
326.5kHz(Transmitter 2)	267.7		
360kHz(Transmitter 3)	105.39		



The test plot as follows:





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5.4 RADIATED EMISSION

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

Test Method: ANSI C63.10-2013 Section 6.3 & 6.5

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

oparious Emilionion				
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)	24000/F(kHz)		30
1.705 MHz-30 MHz	30	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.
- 2. Emission level $(dB\mu V/m) = 20 \log Emission level (\mu V/m)$.
- 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.
- 4. For Below 30MHz, the measured field strength was extrapolated to distance 30 meters, using the formula that the limit of field strength varies as the inverse distance square (40dB per decade of distance). the measured field strength was extrapolated to distance 300 meters, using the formula that the limit of field strength varies as the inverse distance square (80dB per decade of distance)

Example:

Field strength limit for 125 kHz = $19.2 \,\mu\text{V/m}$ at 300m = $25.67 \,dB\mu\text{V/m}$ at 300m = $25.67 \,dB\mu\text{V/m} + 40 \log(300/3) \,dB$ at 3m at 3m

Test Setup: Refer to section 4.4.1 for details.

Test Procedures:

- 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.
- 3) 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.

Shenzhen UnionTrust Quality and Technology Co., Ltd.



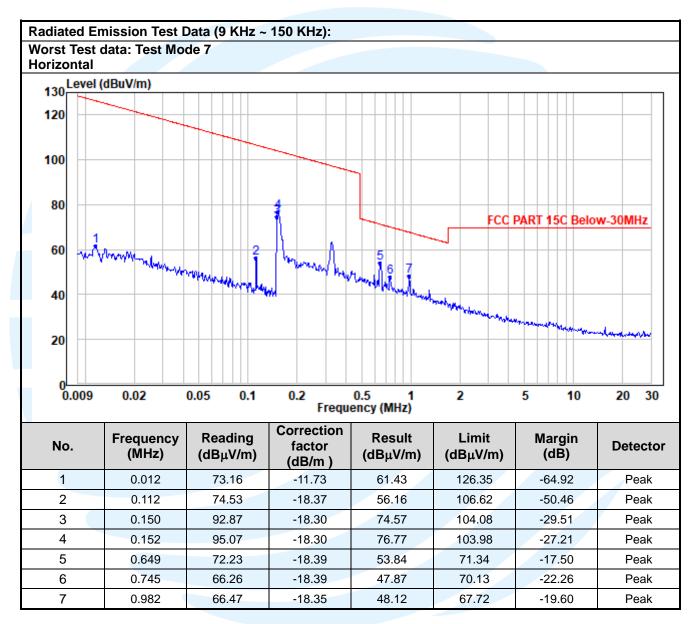
6) If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

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7) The radiation measurements are performed in X, Y, Z axis positioning. And found the X axis positioning which it is worse case, only the test worst case mode is recorded in the report.(for portable and mobile devices)

Equipment Used: Refer to section 3 for details.

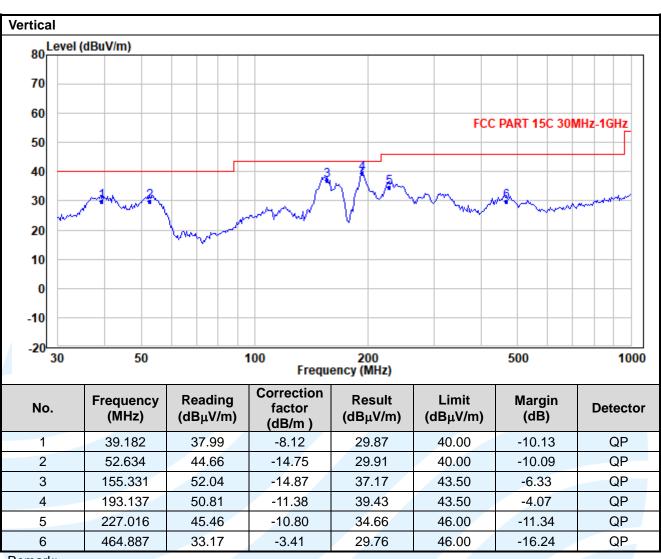
Test Result: Pass





Radiated Emission Test Data (30 MHz ~ 1 GHz): Test Mode 7 Horizontal 80 Level (dBuV/m) 70 60 FCC PART 15C 30MHz-1GHz 50 40 30 20 10 0 -10 30 50 100 500 1000 200 Frequency (MHz) Correction Frequency Reading Result Limit Margin No. factor **Detector** (MHz) (dB_µV/m) $(dB\mu V/m)$ (dBµV/m) (dB) (dB/m) 1 36.268 26.90 -6.8020.10 40.00 -19.90 QP 2 54.135 35.39 -15.87 19.52 40.00 -20.48 QP 3 43.50 108.546 39.94 -15.18 24.76 -18.74 QΡ 4 250.486 48.18 -10.61 37.57 46.00 -8.43 QΡ 5 318.088 44.04 -8.36 35.68 46.00 -10.32 QΡ 6 427.292 36.76 -4.12 32.64 -13.36 QΡ 46.00





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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5.5 CONDUCTED EMISSION

Test Requirement: FCC 47 CFR Part 15 Subpart C Section 15.207

Test Method: 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.

- 2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a $50\Omega/50\mu\text{H} + 5\Omega$ 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.

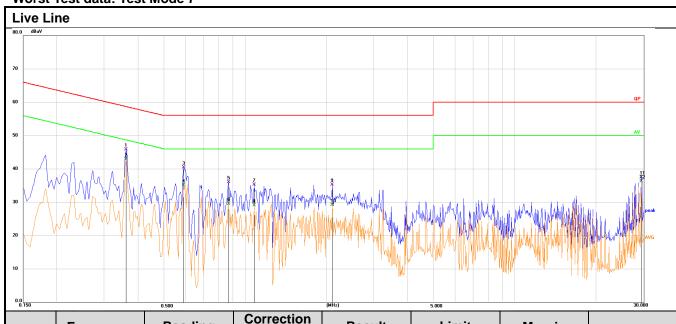
Equipment Used: Refer to section 3 for details.

Test Result: Pass



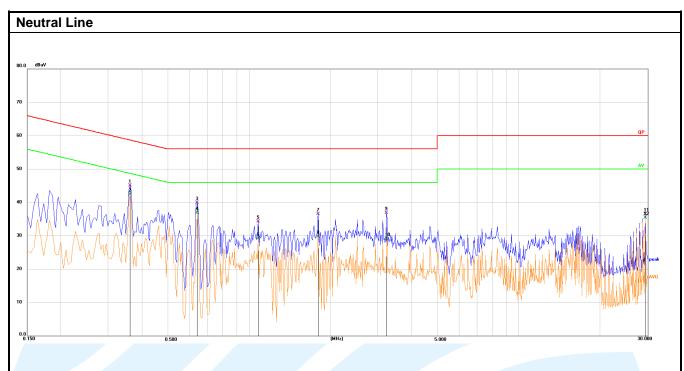
The measurement data as follows:

Quasi Peak and Average: Worst Test data: Test Mode 7



0.150		0.500		(MHz)	5.000		30.000
No.	Frequency (MHz)	Reading (dBμV)	Correction factor (dB)	Result (dBμV)	Limit (dBμV)	Margin (dB)	Detector
1	0.3613	35.73	10.15	45.88	58.70	-12.82	QP
2	0.3613	32.68	10.15	42.83	48.70	-5.87	AVG
3	0.5910	30.24	10.20	40.44	56.00	-15.56	QP
4	0.5910	24.97	10.20	35.17	46.00	-10.83	AVG
5	0.8700	25.73	10.29	36.02	56.00	-19.98	QP
6	0.8700	19.28	10.29	29.57	46.00	-16.43	AVG
7	1.0814	24.98	10.34	35.32	56.00	-20.68	QP
8	1.0814	18.75	10.34	29.09	46.00	-16.91	AVG
9	2.1030	25.00	10.24	35.24	56.00	-20.76	QP
10	2.1030	18.97	10.24	29.21	46.00	-16.79	AVG
11	29.5214	26.65	10.91	37.56	60.00	-22.44	QP
12	29.5214	25.41	10.91	36.32	50.00	-13.68	AVG





No.	Frequency (MHz)	Reading (dBμV)	Correction factor (dB)	Result (dBμV)	Limit (dBµV)	Margin (dB)	Detector
1	0.3614	34.91	10.15	45.06	58.70	-13.64	QP
2	0.3614	32.23	10.15	42.38	48.70	-6.32	AVG
3	0.6404	29.60	10.25	39.85	56.00	-16.15	QP
4	0.6404	26.63	10.25	36.88	46.00	-9.12	AVG
5	1.0815	24.13	10.17	34.30	56.00	-21.70	QP
6	1.0815	19.10	10.17	29.27	46.00	-16.73	AVG
7	1.8015	26.26	10.30	36.56	56.00	-19.44	QP
8	1.8015	19.49	10.30	29.79	46.00	-16.21	AVG
9	3.2370	26.66	10.24	36.90	56.00	-19.10	QP
10	3.2370	18.88	10.24	29.12	46.00	-16.88	AVG
11	29.5215	25.69	10.88	36.57	60.00	-23.43	QP
12	29.5215	24.56	10.88	35.44	50.00	-14.56	AVG

Remark:

- 1. Correct Factor = LISN Factor + Cable Loss + Pulse Limiter Factor, the value was added to Original Receiver Reading by the software automatically.
- 2. 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.
- 5. All possible modes of operation were investigated, and testing at two nominal voltages of 240V/50Hz and 120V/60Hz, only the worst case emissions reported.



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APPENDIX 1 PHOTOS OF TEST SETUP

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

APPENDIX 2 PHOTOS OF EUT CONSTRUCTIONAL DETAILS

Refer to Appendix 2 for EUT external and internal photos.

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