



Report No.: 86260319511

Date: Jun. 10, 2026

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RF TEST REPORT

Applicant : Guangzhou Xinhua Communication Technology Co., Ltd.

Address: Room 2501, Building A, TCL Building, No. 18, Haizhou Road, Haizhu District, Guangzhou, Guangdong, China

Manufacturer: Guangzhou Xinhua Communication Technology Co., Ltd.

Address: Room 2501, Building A, TCL Building, No. 18, Haizhou Road, Haizhu District, Guangzhou, Guangdong, China

EUT Name: portable power source

Trade mark: /

Model: PB-63

FCC ID: 2BV6O-PB63

Rating: Type-C Input: 5V-3A/ 9V-3A/ 12V-2.5A/15V-2A/ 20V-1.5A
Wireless Output: 5W/7.5W/10W/15W/25w(Max)
Battery: 10000mAh 38.5Wh/3.85V

Sample Received Date: Mar. 19, 2026

Test Date: Mar. 19, 2026~Jun. 10, 2026

Applicable Standards: CFR 47, FCC Part 15C

Test Result Pass

Prepared by:

Evan Fang

Approved by:

Bruce Zhang

Evan Fang/Project Engineer

Bruce Zhang/Technical Manager

HD Testing Technology (GuangDong) Co., Ltd.

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Revision History

Version	Date of Issue	Description
V00	Jun. 10, 2026	Original Version

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1. TEST SUMMARY

FCC Part 15C	Description of Test	Result
15.203	Antenna Requirement	Pass
15.215(c)	20dB Occupied Bandwidth	Pass
15.209	Radiated Spurious Emissions	Pass
15.207	Conducted Emission on AC Mains	Pass

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2. TEST SITE

2.1. Test Facility

HD Testing Technology (GuangDong) Co., Ltd.

Address: Building 1, No.18, Shihuan Road, Dongcheng Subdistrict, Dongguan, Guangdong, China

A2LA Certificate Number.:7547.01

FCC Designation Number:CN1419

FCC Test Firm Registration Number:361541

ISED Company Number:34332

ISED CAB identifier Number:CN0189

2.2. Measurement Uncertainty

Parameter	Uncertainty
Conducted Emission(150KHz-30MHz)	$\pm 3.2\text{dB}$
Radiated Emission(9Hz-30MHz)	$\pm 3.5\text{dB}$
Radiated Emission(30MHz-1GHz)	$\pm 4.7\text{dB}$
Radiated Emission (1GHz-6GHz)	$\pm 5.1\text{dB}$
Radiated Emission (6GHz-18GHz)	$\pm 5.1\text{dB}$

Note 1: This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k=2$.

2.3. Test Environment Condition

Ambient Temperature:	24~25°C
Ambient Relative Humidity:	55~60 %

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3. TEST EQUIPMENT LIST

Equipment	Manufacturer	Model	Equipment No.	Cal. Date	Cal. Interval
EMI Test Receiver	Rohde&Schwarz	ESCI	HDT-EM-203	Mar. 03, 2026	1 Year
Pulse limiter	Rohde&Schwarz	ESH3-Z2	HDT-EM-201	Mar. 03, 2026	1 Year
LISN	Rohde&Schwarz	ENV216	HDT-EM-202	Mar. 03, 2026	1 Year
Shielding Room	Taihe Mao Rui Electronic Equipment Co., Ltd.	8m*4m*4m	HDT-EM-230	Oct.12, 2024	5 Year
EMI Test Receiver	Rohde&Schwarz	ESCI7	HDT-EM-205	Mar. 03, 2026	1 Year
Logarithmic Periodic Broadband Antenna	SCHWARZBECK	VULB9168	HDT-EM-209	Mar. 06, 2026	3 Year
Anechoic Chamber	Taihe Mao Rui Electronic Equipment Co., Ltd.	9m*6m*6m	HDT-EM-230	Oct.12, 2024	5 Year
Loop Antenna	Da Ze	ZN30900C	HDT-EM-253	May 16, 2025	3 Year
Filter	WCS Technology	ZBSF6-C2400-24 83.5-294	HDT-EM-270	May 16, 2026	3 Year
Signal Analyzer	Keysight	N9020A	HDT-EM-238	Mar. 03, 2026	1 Year

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4. EUT DESCRIPTION

Product:	portable power source
Test Model:	PB-63
Additional Model:	M03B+
Rating:	Type-C Input: 5V-3A/ 9V-3A/ 12V-2.5A/15V-2A/ 20V-1.5A Wireless Output: 5W/7.5W/10W/15W/25w(Max) Battery: 10000mAh 38.5Wh/3.85V
FCC ID:	2BV6O-PB63
Antenna Type:	Coil Antenna
coil turns:	10Ts
Operation Frequency:	115-205kHz, 360Khz
Modulation Type:	ASK
Hardware Version:	N/A
Software Version:	N/A
Note: 1) For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual. 2) Antenna gain was provided by the applicant/ manufacturer, and the applicant/ manufacturer is responsible for its validity. 3) The product model is PB-50 the same PCB layout, electronic schematic and Antenna with M03B+.Only the model name are difference. 4) The test results in the report only apply to the tested sample.	

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5. Test Methodology

FCC Rules Part 15.209: Radiated emission limits; general requirements.

ANSI C63.10:2020+Cor.1-2023: American National Standard for Testing Unlicensed Wireless Devices

Note: In the 20DB BANDWIDTH project, Because the measured signal is CW-like, adjusting the RBW per ANSI C63.10-2020+Cor.1-2023 would not be practical since measurement bandwidth will always follow the RBW. The RBW is set to 1 kHz to perform the occupied bandwidth test.

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6. SETUP OF EQUIPMENT UNDER TEST

6.1. Description of Support Units

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Support Equipment

No.	Equipment	Model	Serial No.	Manufacturer
1	Adapter	MDY-12-EH	/	MI
2	Wireless Charging Load	/	/	EESON

Support Cable

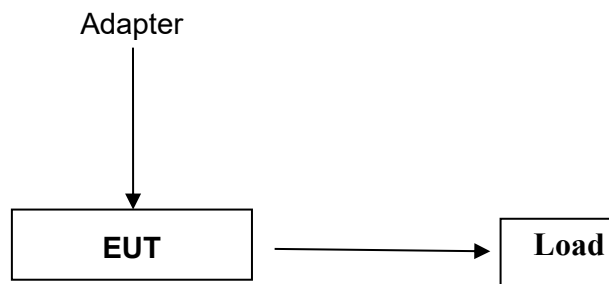
No.	Description	Shield	Length	Manufacturer
1	USB Cable	Yes	1M	MI
2	/	/	/	/

Note:

- 1) All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.
- 2) Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.

6.2. Block Diagram of EUT Configuration

Conducted and radiated emission configuration



6.3. Description of Test Modes

Test Mode	Description
Mode 1	Adapter(output 5V) + EUT+ Wireless Charging load (5W)
Mode 2	Adapter(output 5V) + EUT+ Wireless Charging load (7.5W)

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Mode 3	Adapter(output 5V) + EUT+ Wireless Charging load (10W)
Mode 4	Adapter(output 5V)+ EUT+ Wireless Charging load (15W)
Mode 5	Adapter(output 5V)+ EUT+ Wireless Charging load (25W)
Mode 6	Adapter(output 9V) + EUT+ Wireless Charging load (5W)
Mode 7	Adapter(output 9V) + EUT+ Wireless Charging load (7.5W)
Mode 8	Adapter(output 9V) + EUT+ Wireless Charging load (10W)
Mode 9	Adapter(output 9V)+ EUT+ Wireless Charging load (15W)
Mode 10	Adapter(output 9V)+ EUT+ Wireless Charging load (25W)
Mode 11	Adapter(output 12V) + EUT+ Wireless Charging load (5W)
Mode 12	Adapter(output 12V) + EUT+ Wireless Charging load (7.5W)
Mode 13	Adapter(output 12V) + EUT+ Wireless Charging load (10W)
Mode 14	Adapter(output 12V)+ EUT+ Wireless Charging load (15W)
Mode 15	Adapter(output 12V)+ EUT+ Wireless Charging load (25W)
Mode 16	Adapter(output 15V) + EUT+ Wireless Charging load (5W)
Mode 17	Adapter(output 15V) + EUT+ Wireless Charging load (7.5W)
Mode 18	Adapter(output 15V) + EUT+ Wireless Charging load (10W)
Mode 19	Adapter(output 15V)+ EUT+ Wireless Charging load (15W)
Mode 20	Adapter(output 15V)+ EUT+ Wireless Charging load (25W)
Mode 21	Adapter(output 20V) + EUT+ Wireless Charging load (5W)
Mode 22	Adapter(output 20V) + EUT+ Wireless Charging load (7.5W)
Mode 23	Adapter(output 20V) + EUT+ Wireless Charging load (10W)
Mode 24	Adapter(output 20V)+ EUT+ Wireless Charging load (15W)
Mode 25	Adapter(output 20V)+ EUT+ Wireless Charging load (25W)
Mode 26	EUT+ Wireless Charging load (5W)
Mode 27	EUT+ Wireless Charging load (7.5W)
Mode 28	EUT+ Wireless Charging load (10W)
Mode 29	EUT+ Wireless Charging load (15W)
Mode 30	EUT+ Wireless Charging load (25W)

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Note:

1. All test modes has been tested, this report only reflected the worst mode.
2. Mode 25 is worst case for Conducted Emission and Mode 30 is worse case for Spurious Emission.

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7. TEST RESULTS AND MEASUREMENT DATA

7.1. Antenna Requirement

Test Requirement:	FCC Part Part 15.203 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 shall be considered sufficient to comply with the provisions of this section.
Test Result:	According to the manufacturer declared, the EUT has a coil antenna, the Maximum directional coil turns is 10Ts, and the antenna connector is designed with permanent attachment and no consideration of replacement. Therefore the EUT is considered sufficient to comply with the provision. Refer to EUT Photo for further details.

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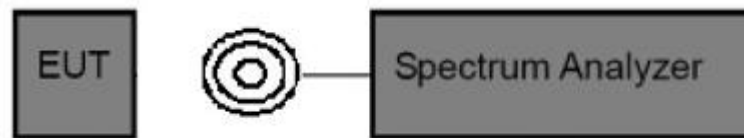
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7.2. 20DB BANDWIDTH

Test Requirement:	FCC Part15.215 (c)
Test Mode:	Transmitting mode with modulation
Limit:	/
Test Procedure:	1. According to the follow Test-setup, keep the relative position between the artificial antenna and the EUT. 2. Set to the maximum power setting and enable the EUT transmit continuously. 3. Use the following spectrum analyzer settings for 20dB Bandwidth , measurement. 4. The RBW is set to 1 kHz to perform the occupied bandwidth test.VBW≥RBW; Sweep = auto; Detector function =peak; Trace = max hold. 5. Measure and record the results in the test report.
Test Result:	PASS

7.2.1. Test Setup:



7.2.2. Test Result

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Frequency (kHz)	20dB Bandwidth (kHz)	99%Bandwidth (kHz)
128	2.717	2.394
361	3.220	2.390



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7.3. Radiated Spurious Emissions

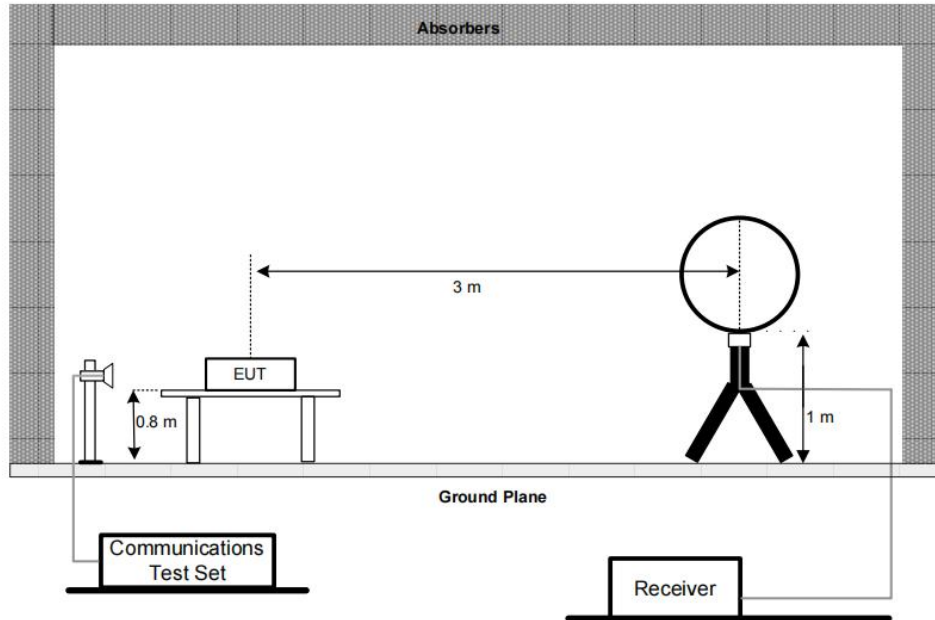
Test Requirement:	FCC Part 15.247(d), 15.205																										
Test Mode:	Transmitting mode with modulation																										
Limit:	<table><tr><td>Frequency Range (MHz)</td><td>Field Strength (microvolts/meter)</td><td>Measurement Distance(meters)</td></tr><tr><td>0.009~0.490</td><td>2400/F(kHz)</td><td>300</td></tr><tr><td>0.490~1.705</td><td>24000/F(kHz)</td><td>30</td></tr><tr><td>1.705~30.0</td><td>30</td><td>30</td></tr><tr><td>30-88</td><td>100</td><td>3</td></tr><tr><td>88-216</td><td>150</td><td>3</td></tr><tr><td>216-960</td><td>200</td><td>3</td></tr><tr><td>Above 960</td><td>500</td><td>3</td></tr></table>			Frequency Range (MHz)	Field Strength (microvolts/meter)	Measurement Distance(meters)	0.009~0.490	2400/F(kHz)	300	0.490~1.705	24000/F(kHz)	30	1.705~30.0	30	30	30-88	100	3	88-216	150	3	216-960	200	3	Above 960	500	3
	Frequency Range (MHz)	Field Strength (microvolts/meter)	Measurement Distance(meters)																								
	0.009~0.490	2400/F(kHz)	300																								
	0.490~1.705	24000/F(kHz)	30																								
	1.705~30.0	30	30																								
	30-88	100	3																								
	88-216	150	3																								
	216-960	200	3																								
	Above 960	500	3																								
Test Procedure:	Radiated emission measurements were performed from 9kHz to tenth harmonic or 40GHz. The EUT for testing is arranged on a styrene turntable. If some peripherals apply to the EUT, the peripherals will be connected to EUT and the whole system. During the test, all cables were arranged to produce worst-case emissions. The signal is maximized through rotation. The height of antenna and polarization is changing constantly for exploring for maximum signal level. The height of antenna can be up to 4 meters and down to 1 meter. Note:1. In Radiated measurement, the EUT had been pre-scan on the positioned of each 3axis (X, Y, Z), the worst case was found when positioned on X-plane. 2.Tests have been conducted on the three testing directions of the Loop antenna (parallel, perpendicular and Ground). The worst mode was parallel. The report only shows the worst results.																										
Test Result:	Pass																										

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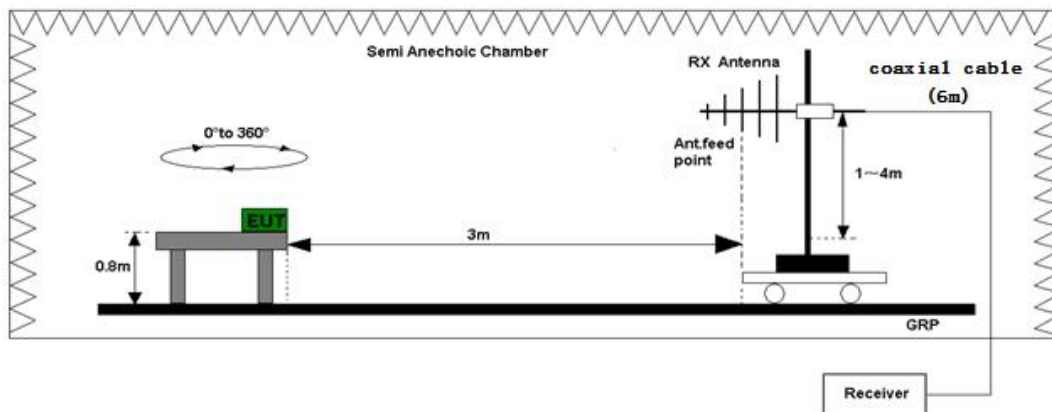
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7.3.1. Test Setup:



Test set-up of radiated disturbance (9kHz to 30MHz)



Test set-up of radiated disturbance (30MHz to 1GHz)

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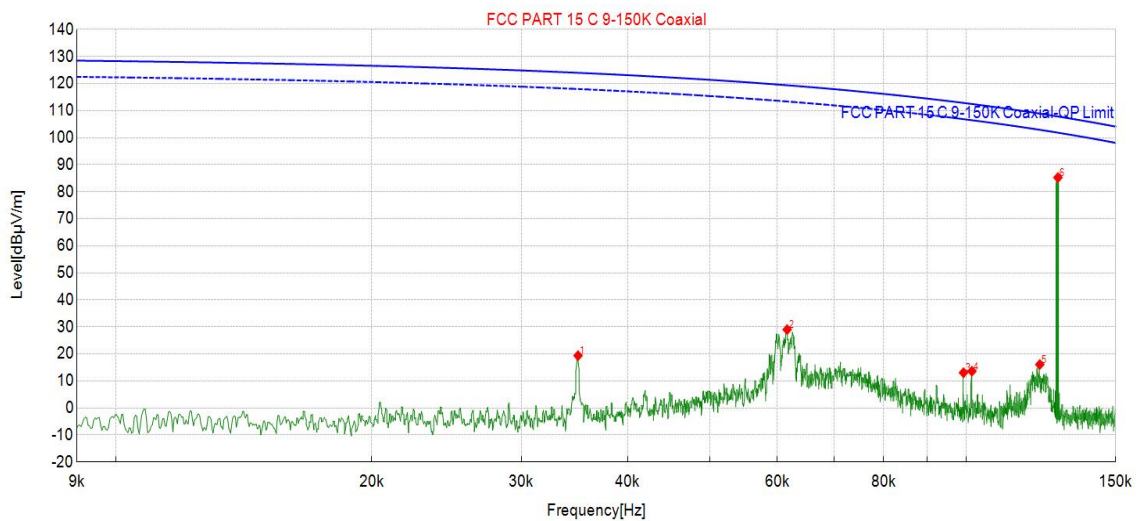
7.3.2. Test Result

Test Voltage	DC 3.85V by battery
--------------	---------------------

Worst-case Mode 30

Spurious Emission 9kHz~30MHz

Please refer to the following diagram:



Suspected Data List

NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Pol	Verdict
1	0.035	43.54	19.37	-24.17	124.02	104.65	100	240	PK	Parallel	PASS
2	0.062	55.02	29.03	-25.99	119.41	90.38	100	353	PK	Parallel	PASS
3	0.98	41.10	13.05	-28.05	112.87	99.82	100	353	PK	Parallel	PASS
4	0.103	41.73	13.61	-28.12	112.48	98.87	100	203	PK	Parallel	PASS
5	0.116	44.45	16.08	-28.37	108.92	92.84	100	2	PK	Parallel	PASS
6	0.128	113.69	85.25	-28.44	107.86	22.61	100	119	PK	Parallel	PASS

Note:(1)Level=Reading+Factor

(2)Margin=Limit-Level

(3)Factor=Antenna Factor+ Cable Loss

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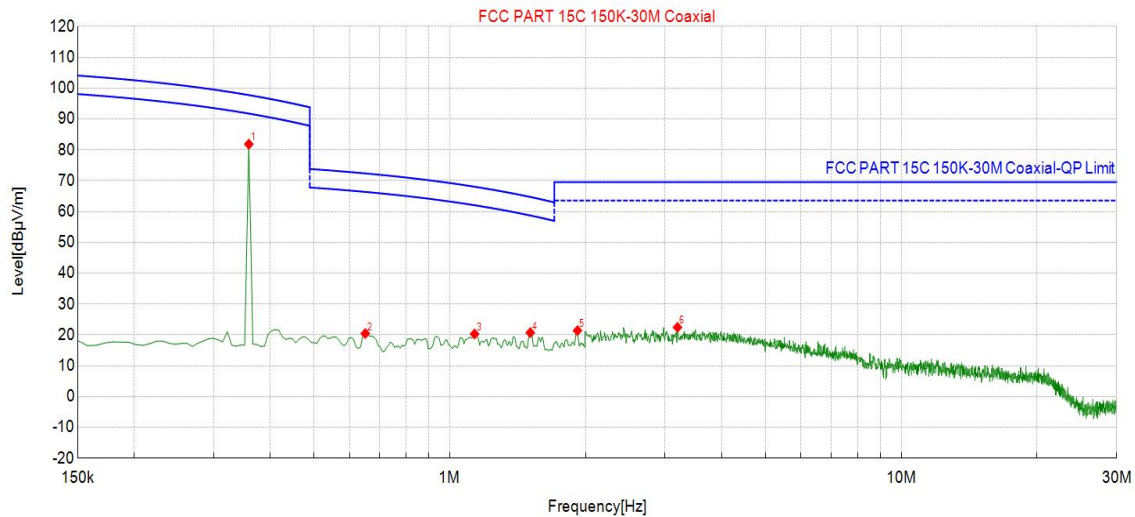
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Please refer to the following diagram:



Suspected Data List

NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Pol	Verdict
1	0.361	112.55	81.84	-30.71	97.77	15.93	100	274	PK	Parallel	PASS
2	0.648	51.75	20.45	-31.30	72.37	51.92	100	360	PK	Parallel	PASS
3	1.142	51.78	20.29	-31.49	68.05	47.76	100	120	PK	Parallel	PASS
4	1.513	52.17	20.72	-31.45	64.72	44.00	100	110	PK	Parallel	PASS
5	1.920	52.80	21.39	-31.41	69.54	48.15	100	355	PK	Parallel	PASS
6	3.189	53.13	22.45	-30.68	69.54	47.09	100	274	PK	Parallel	PASS

Note:(1)Level=Reading+Factor

(2)Margin=Limit-Level

(3)Factor=Antenna Factor+ Cable Loss

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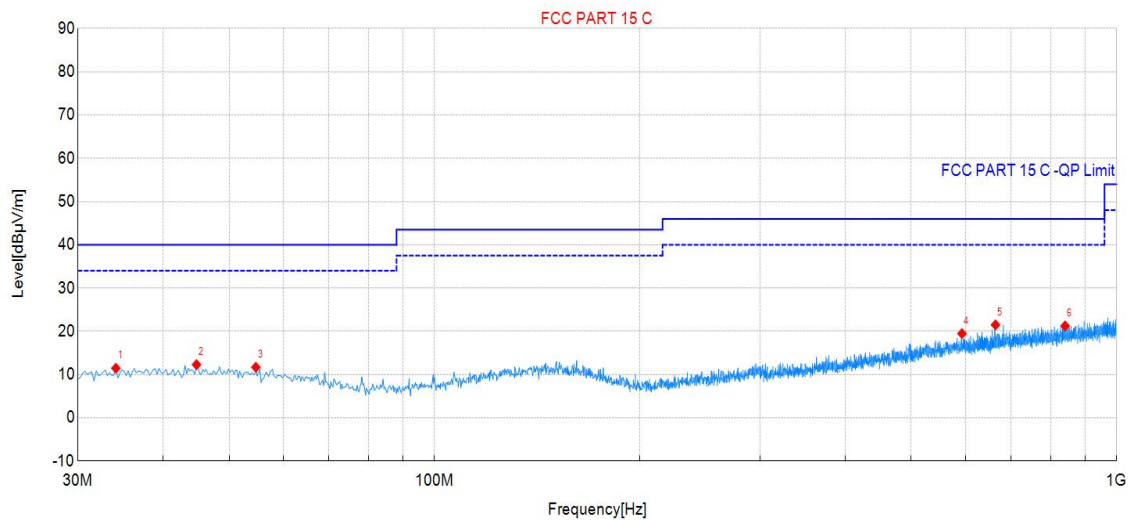
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Worst-case Spurious Emission below 1GHz

Please refer to the following diagram:

Vertical:



Suspected Data List

NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Pol	Verdict
1	34.12	29.01	11.46	-17.55	40.00	28.54	100	240	QP	Vertical	PASS
2	44.79	29.41	12.30	-17.11	40.00	27.70	100	50	QP	Vertical	PASS
3	54.74	29.29	11.69	-17.60	40.00	28.31	100	330	QP	Vertical	PASS
4	593.33	29.71	19.47	-10.24	46.00	26.53	100	20	QP	Vertical	PASS
5	664.38	30.75	21.49	-9.26	46.00	24.51	100	70	QP	Vertical	PASS
6	840.44	28.87	21.24	-7.63	46.00	24.76	100	170	QP	Vertical	PASS

Note:(1)Level=Reading+Factor

(2)Margin=Limit-Level

(3)Factor=Antenna Factor+ Cable Loss - Amplifier Factor

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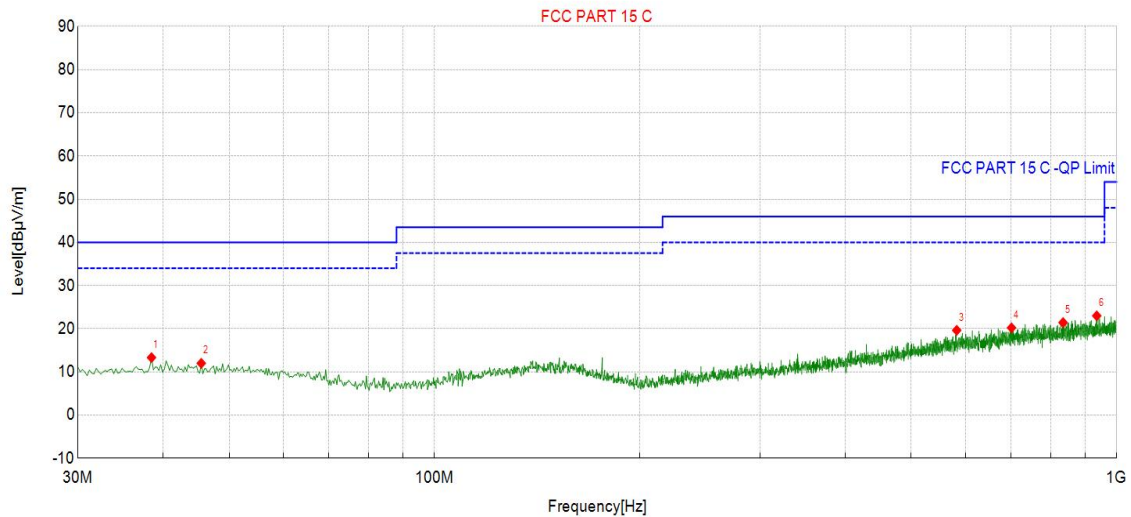
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Horizontal:



Suspected Data List

NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Pol	Verdict
1	38.49	30.46	13.31	-17.15	40.00	26.69	100	140	QP	Horizontal	PASS
2	45.52	29.12	12.00	-17.12	40.00	28.00	100	70	QP	Horizontal	PASS
3	582.90	30.10	19.64	-10.46	46.00	26.36	100	170	QP	Horizontal	PASS
4	701.24	29.00	20.21	-8.79	46.00	25.79	100	80	QP	Horizontal	PASS
5	834.62	29.09	21.42	-7.67	46.00	24.58	100	100	QP	Horizontal	PASS
6	935.01	29.92	22.99	-6.93	46.00	23.01	100	210	QP	Horizontal	PASS

Note:(1)Level=Reading+Factor

(2)Margin=Limit-Level

(3)Factor=Antenna Factor+ Cable Loss - Amplifier Factor

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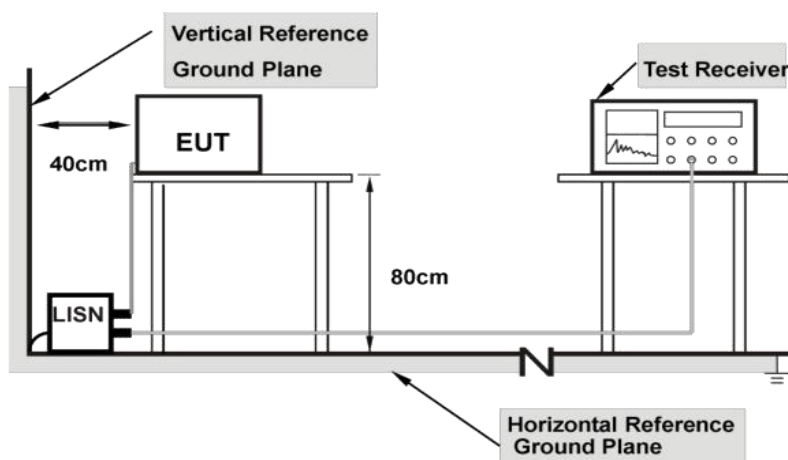
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7.4. CONDUCTED EMISSION

Test Requirement:	FCC Part 15.207(a)		
Test Mode:	Transmitting mode with modulation		
Limit:			
	Frequency of Emission (MHz)	Conducted Limit (dBuV)	
		Quasi-peak	Average
	0.15-0.5	66 to 56*	56 to 46*
	0.5-5	56	46
	5-30	60	50
	*Decreases with the logarithm of the frequency.		
Test Procedure:	For tabletop equipment, the EUT along with its peripherals were placed on a 1.0m(W)×1.5m(L) and 0.8m in height wooden table. The EUT was adjusted to maintain a 0.4 meter space from a vertical reference plane. The EUT was connected to power mains through a line impedance stabilization network (LISN), which provided 50 ohm coupling impedance for measuring instrument and the chassis ground was bounded to the horizontal ground plane of shielded room. The excess power cable between the EUT and the LISN was bundled.		
Test Result:	Pass		

7.4.1. Test Setup



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7.4.2. Test Result

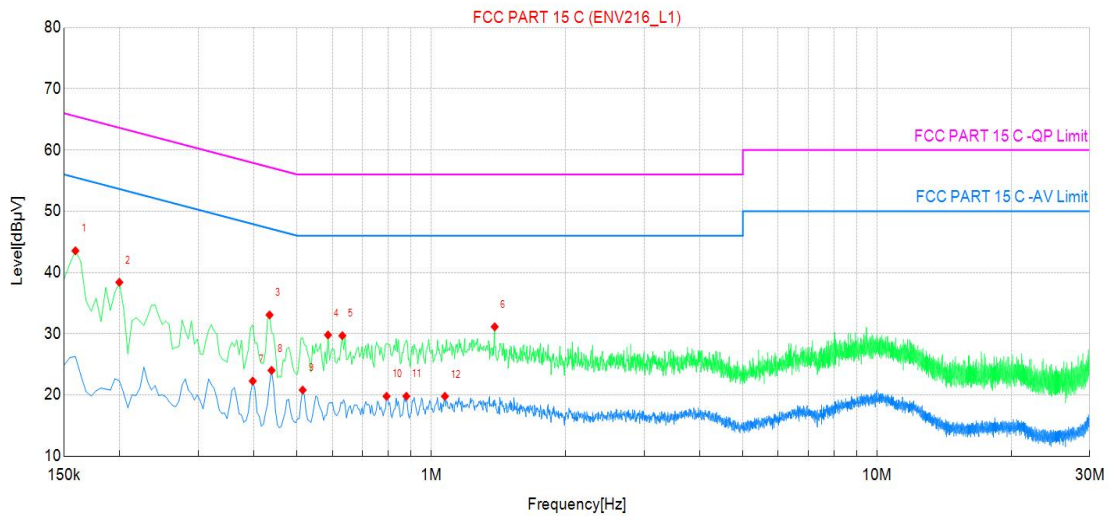
Test Voltage

DC 20V from Adapter(AC 120V/60Hz)

Worst-case: Mode 25

Please refer to the following diagram:

Line:



Suspected Data List

NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV]	Factor [dB]	Limit [dBμV]	Margin [dB]	Phase	Detector	Verdict
1	0.159000	24.26	43.53	19.27	65.52	21.99	L1	QP	PASS
2	0.199500	19.20	38.39	19.19	63.63	25.24	L1	QP	PASS
3	0.433500	13.95	33.06	19.11	57.19	24.13	L1	QP	PASS
4	0.586500	10.60	29.78	19.18	56.00	26.22	L1	QP	PASS
5	0.631500	10.45	29.67	19.22	56.00	26.33	L1	QP	PASS
6	1.387500	11.92	31.12	19.20	56.00	24.88	L1	QP	PASS
7	0.397500	3.14	22.26	19.12	47.91	25.65	L1	AV	PASS
8	0.438000	4.89	24.00	19.11	47.10	23.10	L1	AV	PASS
9	0.514500	1.69	20.79	19.10	46.00	25.21	L1	AV	PASS
10	0.793500	0.51	19.77	19.26	46.00	26.23	L1	AV	PASS
11	0.879000	0.54	19.78	19.24	46.00	26.22	L1	AV	PASS
12	1.072500	0.56	19.76	19.20	46.00	26.24	L1	AV	PASS

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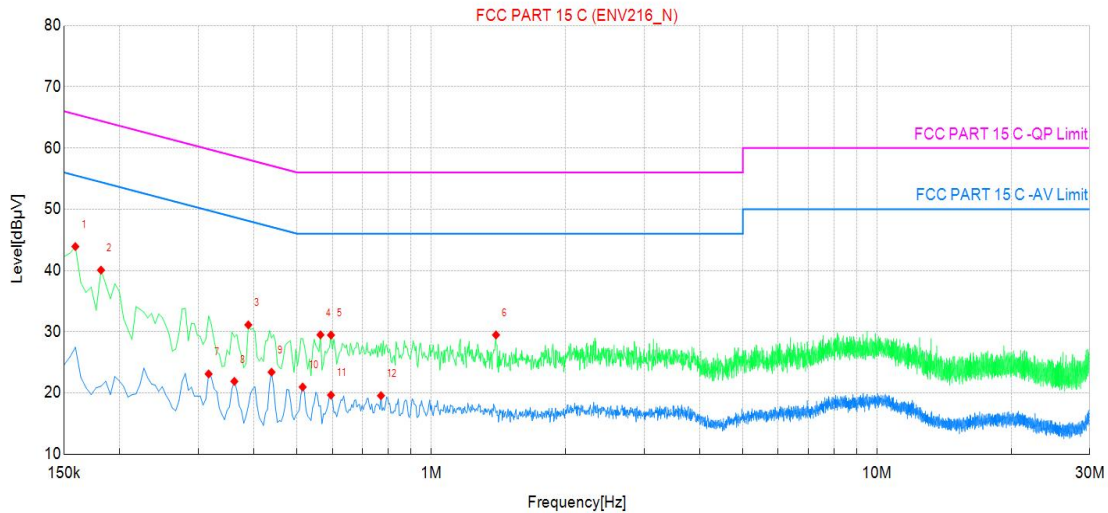
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Neutral:



Suspected Data List

NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV]	Factor [dB]	Limit [dBμV]	Margin [dB]	Phase	Detector	Verdict
1	0.159000	24.71	43.90	19.19	65.52	21.62	N	QP	PASS
2	0.181500	20.86	40.05	19.19	64.42	24.37	N	QP	PASS
3	0.388500	11.92	31.11	19.19	58.10	26.99	N	QP	PASS
4	0.564000	10.26	29.48	19.22	56.00	26.52	N	QP	PASS
5	0.595500	10.20	29.44	19.24	56.00	26.56	N	QP	PASS
6	1.396500	10.26	29.46	19.20	56.00	26.54	N	QP	PASS
7	0.316500	3.90	23.09	19.19	49.80	26.71	N	AV	PASS
8	0.361500	2.69	21.88	19.19	48.69	26.81	N	AV	PASS
9	0.438000	4.20	23.39	19.19	47.10	23.71	N	AV	PASS
10	0.514500	1.76	20.96	19.20	46.00	25.04	N	AV	PASS
11	0.595500	0.40	19.64	19.24	46.00	26.36	N	AV	PASS
12	0.771000	0.27	19.54	19.27	46.00	26.46	N	AV	PASS

Note:(1)Level=Reading+Factor

(2)Margin=Limit-Level

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8. PHOTOGRAPHS OF TEST SET-UP

For photographs of the test set-up, refer to the appendix file.(Test Setup Photo)

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9. PHOTOGRAPHS OF EUT

For photographs of the EUT, refer to the appendix file(EUT External Photos and EUT Internal Photos).

*** End of Report ***

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