



Test Report

Report No.: RKEYS251016338

Date: Oct.29, 2025

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FCC RF TEST REPORT

For

Product: Portable power bank

Model: W7

FCC ID: 2BSYV-W7

Report No.: RKEYS251016338

Issued for

Zhengzhou Yeming Trading Co., Ltd.

**Room 501, Unit 1, Building 8, West Zone, Jinshui Garden 39 East Weisi Road, Weilai Road
Subdistrict Jinshui District, Zhengzhou, Henan, China**

Issued by

Guangdong KEYS Testing Technology Co., Ltd.

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

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1. TEST CERTIFICATION

Product:	Portable power bank
Trade mark:	/
Model:	W7
Applicant :	Zhengzhou Yeming Trading Co., Ltd.
Address:	Room 501, Unit 1, Building 8, West Zone, Jinshui Garden 39 East Weisi Road, Weilai Road Subdistrict Jinshui District, Zhengzhou, Henan, China
Manufacturer:	Shenzhen Xuhan Technology Co.,Ltd.
Address:	Room 2801, Chuanghui Building, Wuhe Community, Bantian Street, Longgang District, Shenzhen,China
Sample Receive Date:	Oct.21, 2025
Test Date:	Oct.21, 2025~Oct.29, 2025
Applicable Standards:	CFR 47, FCC Part 15C
Application Purpose	Original Grant

The above equipment has been tested by Guangdong KEYS Testing Technology Co., Ltd. and found compliance with the requirements in the technical standards mentioned above. The test results presented in this report only relate to the product/system tested. The other similar equipment will not necessarily produce the same results due to production tolerance and measurement uncertainties.



Prepared by:

Evan Fang / Engineer



Approved by:

Bruce Zhang / Manager

2. 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

3. TEST SITE

3.1. TEST FACILITY

Guangdong KEYS Testing Technology 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

3.2. 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 $k=2$.

3.3. Test Environment Condition

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

4. TEST EQUIPMENT LIST

Equipment	Manufacturer	Model	Equipment No.	Cal. Date	Cal. Interval
EMI Test Receiver	Rohde&Schwarz	ESCI	KEYS-EL-203	Mar. 03, 2025	1 Year
Pulse limiter	Rohde&Schwarz	ESH3-Z2	KEYS-EL-201	Mar. 03, 2025	1 Year
LISN	Rohde&Schwarz	ENV216	KEYS-EL-202	Mar. 03, 2025	1 Year
Shielding Room	Taihe Mao Rui Electronic Equipment Co., Ltd.	8m*4m*4m	KEYS-EL-230	2025 / 10 / 12	5 Year
EMI Test Receiver	Rohde&Schwarz	ESCI7	KEYS-EL-205	Mar. 03, 2025	1 Year
Logarithmic Periodic Broadband Antenna	SCHWARZBECK	VULB9168	KEYS-EL-209	Mar. 06, 2025	3 Year
Anechoic Chamber	Taihe Mao Rui Electronic Equipment Co., Ltd.	9m*6m*6m	KEYS-EL-230	2025/ 10/ 12	5 Year
Loop Antenna	Da Ze	ZN30900C	KEYS-EL-253	May 16, 2025	3 Year
Filter	WCS Technology	ZBSF6-C2400-2483.5-294	KEYS-EL-270	May 17, 2025	1 Year
Signal Analyzer	Keysight	N9020A	KEYS-EL-238	Mar. 03, 2025	1 Year

5. EUT DESCRIPTION

Product	Portable power bank
Test Model	W7
Additional Model	/
Rating	Type-C Input : 5V ~~----~~ 2.4A, 9V ~~----~~ 2A, 12V ~~----~~ 1.5A, Wireless output: 10W 7.5W 5W (Max 10W)
FCC ID	2BSYV-W7
Antenna Type	Coil Antenna
Antenna Gain	0dBi
Operation Frequency	115-205kHz
Modulation Type	ASK
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 test results in the report only apply to the tested sample.	

6. TEST METHODOLOGY

Both AC mains line-conducted and radiated emission measurements were performed according to the procedures in ANSI C63.10-2020.

6.1. EUT SYSTEM OPERATION

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, all cables were manipulated to produce worst case emissions. The EUT was powered by DC 5V during the test.

7. SETUP OF EQUIPMENT UNDER TEST

7.1. 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	A1443	/	Apple
2	Wireless Charging Load	/	/	EESON

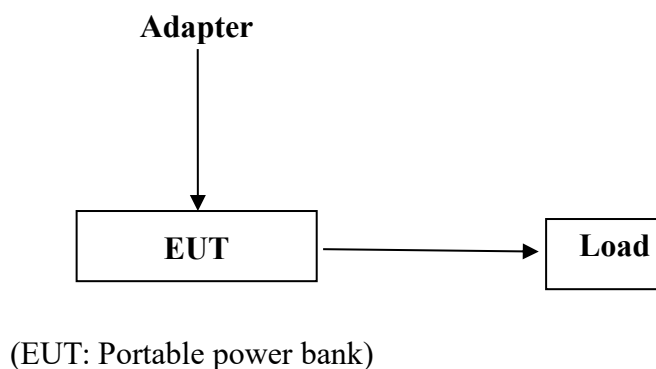
Support Cable

No.	Description	Shield	Length	Manufacturer
1	/	/	/	/
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.

7.2. BLOCK DIAGRAM OF EUT CONFIGURATION



7.3. DESCRIPTION OF TEST MODES

Test Mode	Description
Mode 1	Adapter + EUT+ Wireless Charging load (5W)
Mode 2	Adapter + EUT+ Wireless Charging load (7.5W)
Mode 3	Adapter + EUT+ Wireless Charging load (10W)

Mode 4	EUT+ Wireless Charging load (5W)
Mode 5	EUT+ Wireless Charging load (7.5W)
Mode 6	EUT+ Wireless Charging load (10W)

Note:

1. All test modes has been tested, this report only reflected the worst mode.
2. Mode 3 is worst case for Conducted Emission and Spurious Emission.

8. TEST RESULTS AND MEASUREMENT DATA

8.1. ANTENNA REQUIREMENT

Test Requirement:	Part 15.203
Test Result:	According to the manufacturer declared, the EUT has a coil antenna, the directional gain of antenna is 0dBi, 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.

8.2. 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$\geq$ RBW; Sweep = auto; Detector function =peak; Trace = max hold. 4. Measure and record the results in the test report.
Test Result:	PASS

8.2.1.Test Setup:



8.2.2.Test Result

Note: Because the measured signal is CW-like, adjusting the RBW per C63.10 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.



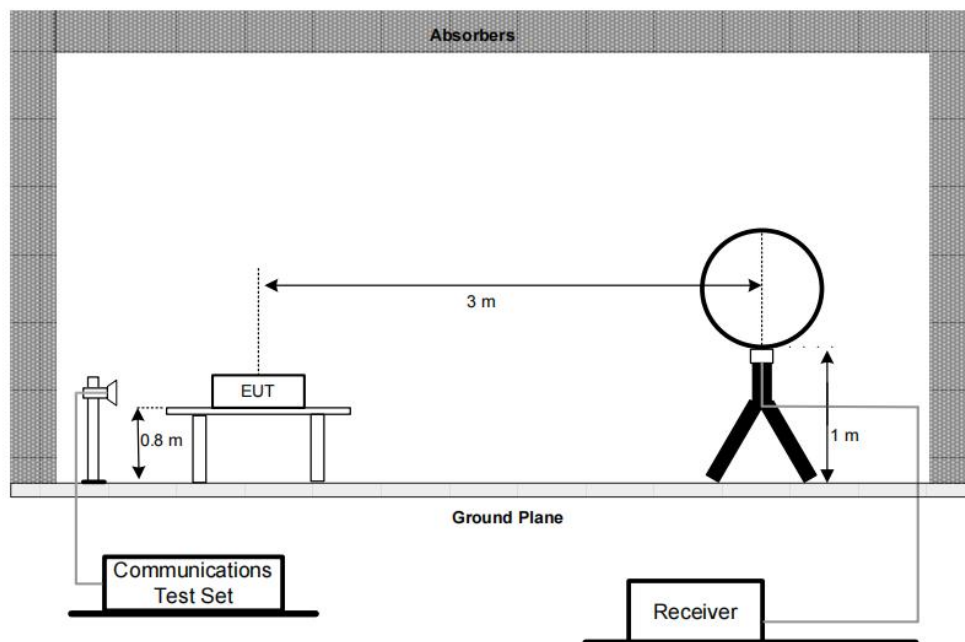
Frequency (kHz)	20dB Bandwidth (kHz)	99%Bandwidth (kHz)
131	2.903	2.478



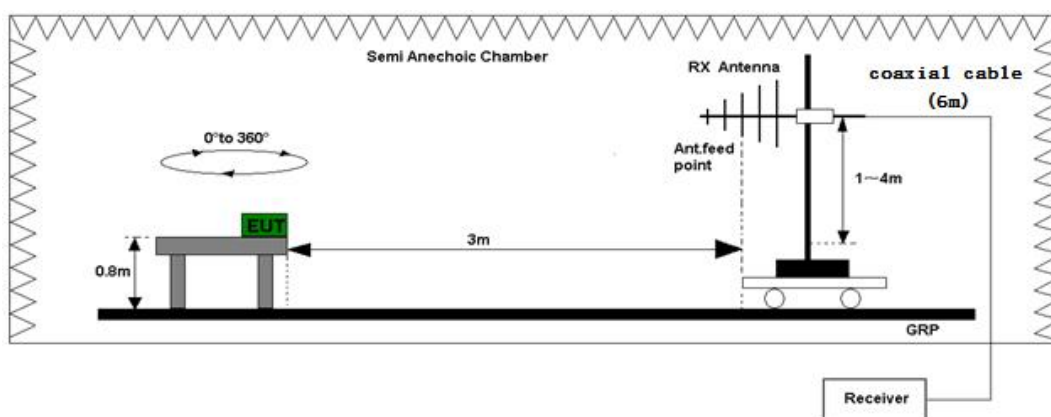
8.3. RADIATED SPURIOUS EMISSIONS

Test Requirement:	FCC Part 15.209		
Test Mode:	Transmitting mode with modulation		
Limit:	Frequency Range (MHz)	Field Strength Limit ($\mu\text{V}/\text{m}$)	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.		
Test Result:	Pass		

8.3.1. Test Setup:



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



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

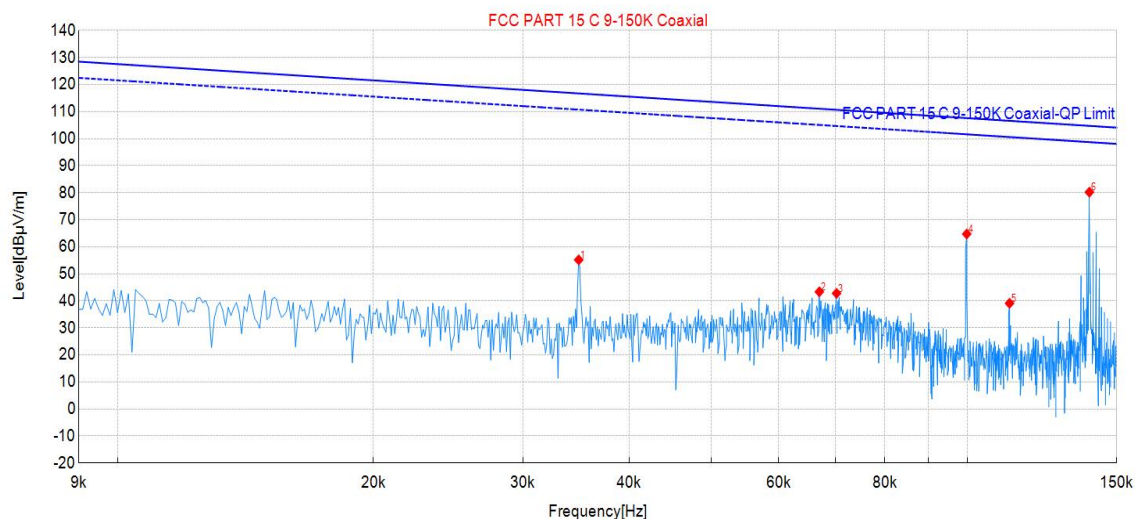
8.3.2. Test Result

Test Voltage	DC 5V from Adapter(AC 120V/60Hz)
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Worst-case Mode 3

Spurious Emission 9kHz~30MHz

Please refer to the following diagram:



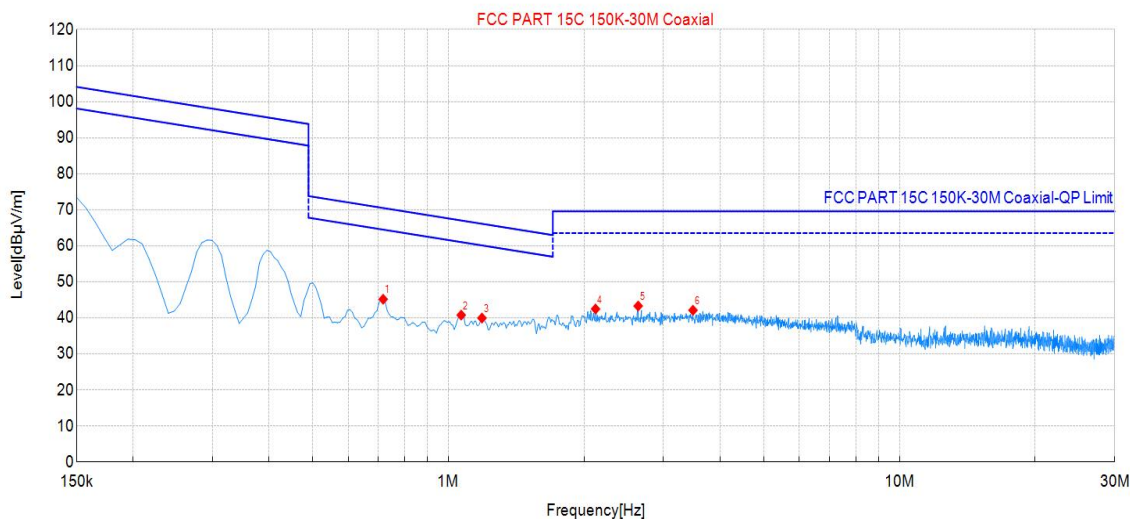
Suspected Data List											
NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Pol	Verdict
1	0.03	27.74	55.17	27.43	116.76	61.59	100	360	PK	Vert	PASS
2	0.07	17.93	43.36	25.43	111.10	67.74	100	360	PK	Vert	PASS
3	0.07	17.46	42.79	25.33	110.69	67.90	100	360	PK	Vert	PASS
4	0.10	41.24	64.75	23.51	107.63	42.88	100	360	PK	Vert	PASS
5	0.11	15.75	39.10	23.35	106.62	67.52	100	360	PK	Vert	PASS
6	0.14	57.18	80.21	23.03	104.74	24.53	100	360	PK	Vert	PASS

Note:(1)Level=Reading+Factor

(2)Margin=Limit-Level

(3)Factor=Antenna Factor+ Cable Loss

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	0.72	24.92	45.18	20.26	70.49	25.31	100	69	PK	Vert	PASS
2	1.07	20.65	40.77	20.12	67.03	26.26	100	78	PK	Vert	PASS
3	1.19	19.83	39.96	20.13	66.11	26.15	100	322	PK	Vert	PASS
4	2.12	22.20	42.48	20.28	69.54	27.06	100	6	PK	Vert	PASS
5	2.64	22.70	43.30	20.60	69.54	26.24	100	22	PK	Vert	PASS
6	3.49	21.01	42.12	21.11	69.54	27.42	100	220	PK	Vert	PASS

Note:(1)Level=Reading+Factor

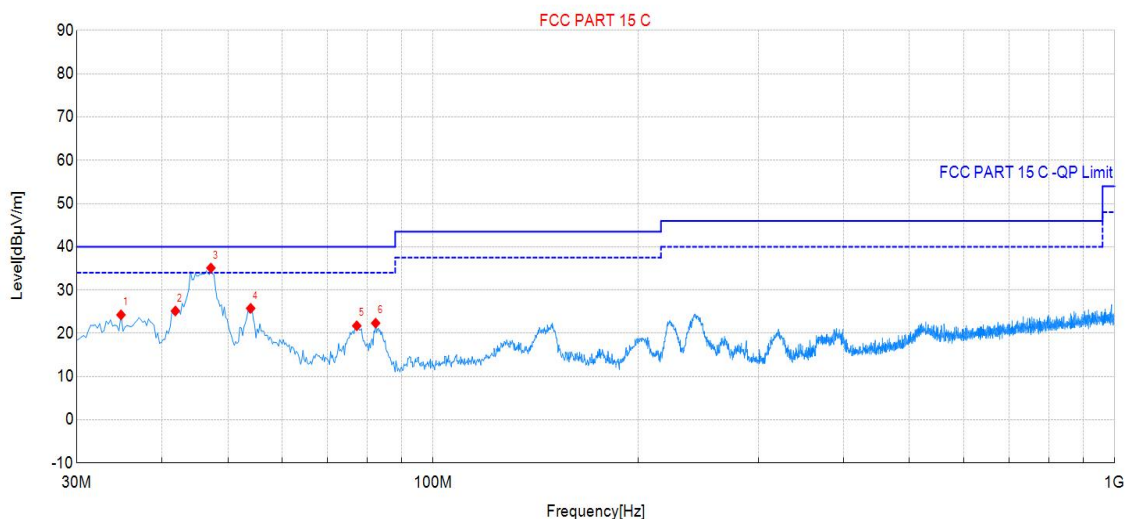
(2)Margin=Limit-Level

(3)Factor=Antenna Factor+ Cable Loss

Spurious Emission 30MHz ~1GHz

Please refer to the following diagram:

Vertical:



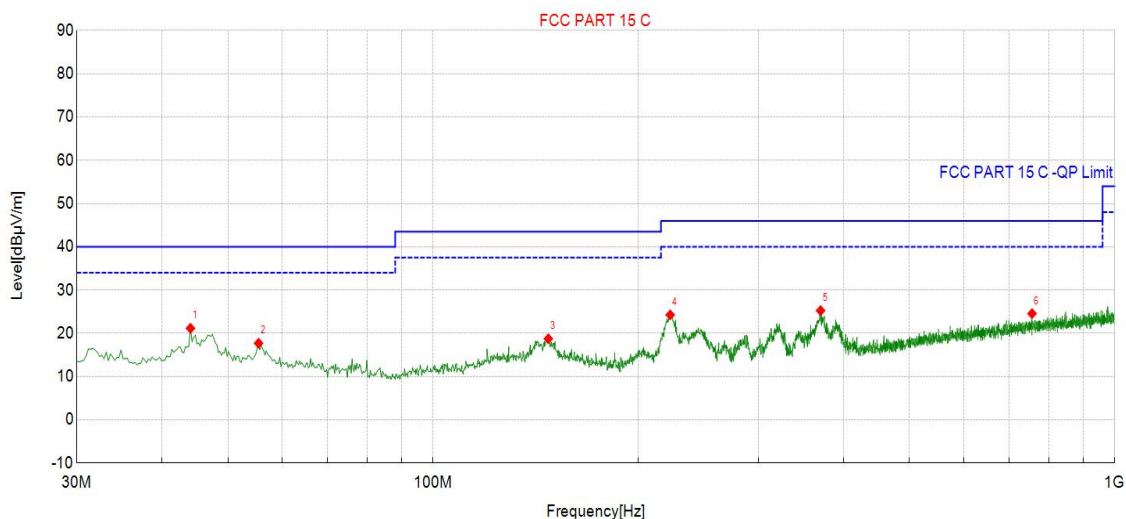
Suspected Data List											
NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Pol	Verdict
1	34.85	41.77	24.26	-17.51	40.00	15.74	100	1	QP	Vert	PASS
2	41.88	42.22	25.17	-17.05	40.00	14.83	100	53	QP	Vert	PASS
3	47.22	52.27	35.11	-17.16	40.00	4.89	100	240	QP	Vert	PASS
4	54.01	43.32	25.77	-17.55	40.00	14.23	100	359	QP	Vert	PASS
5	77.29	42.11	21.74	-20.37	40.00	18.26	100	137	QP	Vert	PASS
6	82.38	42.98	22.35	-20.63	40.00	17.65	100	127	QP	Vert	PASS

Note:(1)Level=Reading+Factor

(2)Margin=Limit-Level

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

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	44.07	38.24	21.15	-17.09	40.00	18.85	100	360	QP	Hori	PASS
2	55.46	35.38	17.71	-17.67	40.00	22.29	100	308	QP	Hori	PASS
3	147.61	34.95	18.74	-16.21	43.50	24.76	100	26	QP	Hori	PASS
4	222.79	43.31	24.26	-19.05	46.00	21.74	100	279	QP	Hori	PASS
5	370.23	40.41	25.25	-15.16	46.00	20.75	100	289	QP	Hori	PASS
6	756.29	32.87	24.56	-8.31	46.00	21.44	100	297	QP	Hori	PASS

Note:(1)Level=Reading+Factor

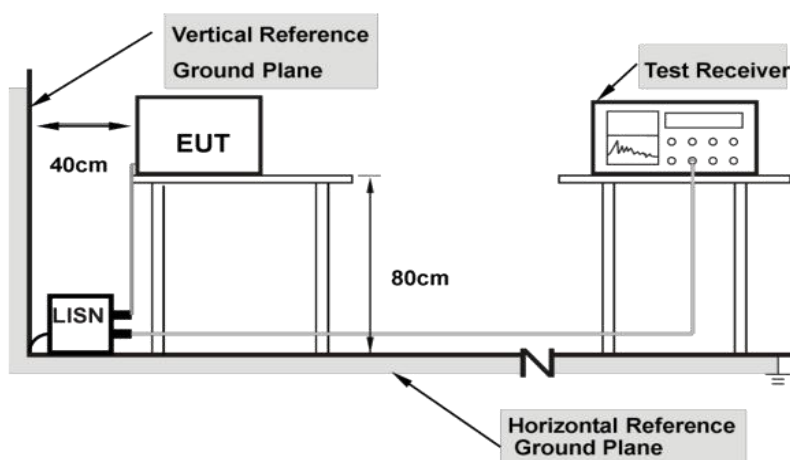
(2)Margin=Limit-Level

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

8.4. CONDUCTED EMISSION

Test Requirement:	FCC Part 15.207		
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		

8.4.1. Test Setup



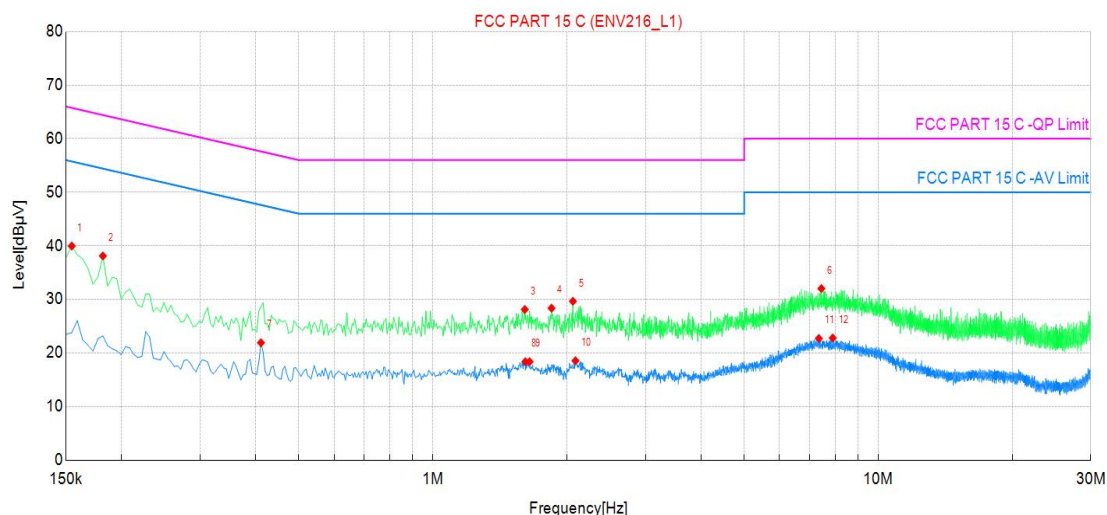
8.4.2. Test Result

Test Voltage	DC 5V from Adapter(AC 120V/60Hz)
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Worst-case:Mode 3

Please refer to the following diagram:

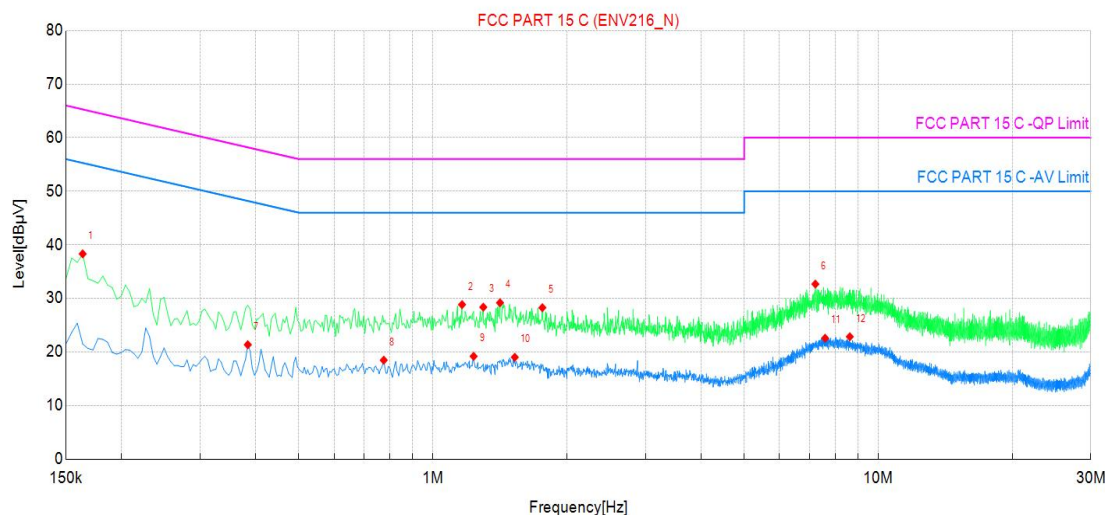
Line:



Suspected Data List

NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV]	Factor [dB]	Limit [dBμV]	Margin [dB]	Phase	Detector	Verdict
1	0.154500	20.68	39.96	19.28	65.75	25.79	L1	QP	PASS
2	0.181500	18.88	38.11	19.23	64.42	26.31	L1	QP	PASS
3	1.608000	8.91	28.11	19.20	56.00	27.89	L1	QP	PASS
4	1.846500	9.16	28.36	19.20	56.00	27.64	L1	QP	PASS
5	2.062500	10.45	29.65	19.20	56.00	26.35	L1	QP	PASS
6	7.453500	12.83	32.02	19.19	60.00	27.98	L1	QP	PASS
7	0.411000	2.79	21.91	19.12	47.63	25.72	L1	AV	PASS
8	1.612500	-0.83	18.37	19.20	46.00	27.63	L1	AV	PASS
9	1.648500	-0.83	18.37	19.20	46.00	27.63	L1	AV	PASS
10	2.089500	-0.65	18.55	19.20	46.00	27.45	L1	AV	PASS
11	7.354500	3.53	22.71	19.18	50.00	27.29	L1	AV	PASS
12	7.903500	3.56	22.80	19.24	50.00	27.20	L1	AV	PASS

Neutral:



Suspected Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV]	Factor [dB]	Limit [dBμV]	Margin [dB]	Phase	Detector	Verdict
1	0.163500	19.12	38.31	19.19	65.28	26.97	N	QP	PASS
2	1.162500	9.64	28.84	19.20	56.00	27.16	N	QP	PASS
3	1.297500	9.16	28.36	19.20	56.00	27.64	N	QP	PASS
4	1.414500	9.98	29.18	19.20	56.00	26.82	N	QP	PASS
5	1.761000	9.07	28.27	19.20	56.00	27.73	N	QP	PASS
6	7.224000	13.34	32.67	19.33	60.00	27.33	N	QP	PASS
7	0.384000	2.16	21.35	19.19	48.19	26.84	N	AV	PASS
8	0.775500	-0.80	18.47	19.27	46.00	27.53	N	AV	PASS
9	1.234500	-0.01	19.19	19.20	46.00	26.81	N	AV	PASS
10	1.527000	-0.18	19.02	19.20	46.00	26.98	N	AV	PASS
11	7.597500	3.25	22.57	19.32	50.00	27.43	N	AV	PASS
12	8.632500	3.55	22.85	19.30	50.00	27.15	N	AV	PASS

Note:(1)Level=Reading+Factor

(2)Margin=Limit-Level

9. PHOTOGRAPHS OF TEST SET-UP

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

10. PHOTOGRAPHS OF EUT

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

**** End of Report ****