

Chongqing Dajiang Power Equipment Co., Ltd

RF TEST REPORT

Report Type:

FCC Part 15C RF report

Model:

DPS2400L-C, DPS2400L-D,
Arc 2400 Pro, RPS2024AA-PCS

REPORT NUMBER:

260200257HAN-001

ISSUE DATE:

July 28, 2026

DOCUMENT CONTROL NUMBER:

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Manufacturer: Chongqing Dajiang Power Equipment Co., Ltd.
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FCC ID: 2BQTM-DPS2400L

SUMMARY:

The equipment complies with the requirements according to the following standard(s) or Specification:

47CFR Part 15 (2024): Radio Frequency Devices (Subpart C)

ANSI C63.10 (2020) +Cor.1(2023) +C63.10a (2024) +Errata to C63.10a(2024): American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices

PREPARED BY:**REVIEWED BY:**

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TEST REPORT

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Revision History

Report No.	Version	Description	Issued Date
260200257HAN-001	Rev. 01	Initial issue of report	July 28, 2026

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Measurement result summary

TEST ITEM	FCC REFERENCE	RESULT
Radiated emissions	15.209	Pass
Conducted emissions	15.207	Pass

Notes: 1: NA =Not Applicable

2: Determination of the test conclusion is based on IEC Guide 115 in consideration of measurement uncertainty.

3: Additions, Deviations and Exclusions from Standards: None.

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1 GENERAL INFORMATION

1.1 Description of Equipment Under Test (EUT)

Product name:	Portable Power Pack
Type/Model:	DPS2400L-C, DPS2400L-D, Arc 2400 Pro, RPS2024AA-PCS
Description of EUT:	The product covered by this report is a portable power pack with 120VAC/60Hz input and 12-60VDC input, and with 120VAC/60Hz output, 12VDC output, USB output and Wireless charging. The product can be charged and supply the power to AC/DC output port at the same time. AC input and DC input can operate at the same time. AC output and DC output can operate at the same time. This device is intended to be used indoors only. This device is intended to be stored in a vehicle. This device is not intended for use in a commercial repair facility. 1.DPS2400L-C and DPS2400L-D are identical with each other except the shape of handles and ventilation openings. 2.DPS2400L-C and Arc 2400 Pro are identical with each other except the input panel appearances. 3. the Arc 2400 Pro, RPS2024AA-PCS are identical with each other except the model's name. We test the DPS2400L-C under different working modes as below: 1: standby mode. 2: wireless charging mode with 100% load. The worst testing data under mode 2 is listed in the report as representative.
Rating:	AC input: 120V, 60HZ, 1750W, Max.15A DC input: 12-60VDC, Max.1200W, 25A Total output power: AC 2400W+DC 410W AC output(*5): 120V, 60HZ , total: 2400W USB-A output(*2): 5V, 2.4A, total: 24W USB-A Quick Charge (*2): 5V, 3A; 9V, 2A; 12V, 1.5A; total: 36W Type-C output(*2): 5V/9V/12V/15V, 3A; 20V, 5A; total: 200W Cigarette lighter output: 12V, 10A DC output(*2):12V, 5A, total:120W Wireless charging(*2): Max.15W, total: 30W Charging Ambient temperature: 0°C~40°C Discharging Ambient temperature: -10°C ~40°C
Brand name:	DUCAR
Category of EUT:	Class B
EUT type:	☒ Tabletop ☐ Floor standing

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Software Version:	/
Hardware Version:	/
Sample ID:	1260205-02-007
Sample received date:	March 20, 2026
Date of test:	April 10- May 25, 2026

1.2 Technical Specification

Frequency Range:	115kHz – 205kHz
Modulation:	FSK
Antenna:	Coil antenna

1.3 Description of Test Facility

Name:	Intertek Testing Services Zhejiang Ltd
Address:	Building No. 2, Juanhu Science and Technology Innovation Park, No. 500 Shuiyueting East Road, Haining City, Zhejiang Province, China
Telephone:	+86 573 8713 7201

The test facility is recognized, certified, or accredited by these organizations:	CNAS Accreditation Lab Registration No. CNAS L13980
	A2LA Accreditation Lab Certificate Number: 7662.01
	FCC Accredited Lab Designation Number: CN1452
	IC Registration Lab CAB identifier.: CN0197
	VCCI Registration Lab Member No: 4464 (Registration No.: C-20226, T-20227, R-20273, G-20261)

TEST REPORT

2 TEST SPECIFICATIONS

2.1 Standards or specification

47CFR Part 15 (2024)

ANSI C63.10 (2020) +Cor.1(2023) +C63.10a (2024) +Errata to C63.10a(2024):

2.2 Mode of operation during the test

Within this test report, EUT was tested under all available operation modes and tested under its rating voltage and frequency. Other voltage and frequency are specified if used.

2.3 Test software list

Test Items	Software	Manufacturer	Version
Conducted emission	EMC-I	SKET	V1.5.0.4
Radiated emission	EMC-I	SKET	V1.5.0.4

2.4 Test peripherals list

Item No.	Name	Brand and Model	Description
1	Wireless load	-	15W*2

2.5 Test environment condition:

Test items	Temperature	Humidity
Radiated emission	25°C	48% RH
Power line conducted emission	24°C	50% RH

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2.6 Instrument list

Conducted Emission					
Used	Equipment	Manufacturer	Type	Internal No.	Due Date
☒	EMI Test Receiver	R&S	ESR7	EZ6547	2026-08-07
☒	Pulse Limiter	R&S	ESH3-Z2	EZ6379	2027-06-10
☒	A.M.N.	R&S	ESH2-Z5	EZ6378	2026-05-20
Radiated Emission					
Used	Equipment	Manufacturer	Type	Internal No.	Due Date
☒	EMI Test Receiver	Rohde&Schwarz	ESR7	EZ6331-1	2027-02-08
☒	TRILOG broadband Antenna	Schwarzbeck	VULB9168	EZ6743	2027-07-06
☒	Active Loop Antenna	Schwarzbeck	FMZB 1519B	EZ6331-3	2027-07-02
Tet Site					
Used	Equipment	Manufacturer	Type	Internal No.	Due Date
☒	Shielded Room	SAEMC	MSR953	EZ6441	2027-11-25
☒	Semi-anechoic Chamber	SAEMC	FSAC318	EZ6439	2027-11-24
Additional Instrument					
Used	Equipment	Manufacturer	Type	Internal No.	Due Date
☒	Digital Therom-Hygrograph	TESTO	175H1	EZ6660	2026-09-16
☒	Digital Therom-Hygrograph	TESTO	175H1	EZ1057	2026-09-16

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2.7 Measurement uncertainty

The measurement uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k=2$.

Measurement	Frequency	Expanded Uncertainty ($k=2$)
Conducted emission at mains ports	9kHz ~ 150kHz	1.22 dB
	150kHz ~ 30MHz	2.14 dB
Radio frequency Below 30MHz	9 kHz – 30MHz	2.06 dB
Radiated Emissions up to 1 GHz	30MHz ~ 1GHz	5.59 dB
Radiated Emissions above 1 GHz	1GHz ~ 6GHz	4.20 dB
	6GHz ~ 18GHz	4.49 dB

TEST REPORT

3 Radiated emissions.

Test result: Pass

3.1 Limit

Frequencies (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 REPORT**3.2 Measurement Procedure****For Radiated emission below 30MHz:**

- a) The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meters chamber room. For the floor-standing devices, the EUT was placed on the top of a rotating table 0.1 meters above the ground at 3 meters chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
- b) The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c) Both X and Y axes of the antenna are set to make the measurement.
- d) For each suspected emission, the EUT was arranged to its worst case and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e) The test-receiver system was set to Quasi-Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

NOTE:

- 1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 9kHz at frequency below 30MHz.

For Radiated emission above 30MHz:

- a) The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meters chamber room. For the floor-standing devices, the EUT was placed on the top of a rotating table 0.1 meters above the ground at 3 meters chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
- b) The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c) The height of antenna 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.
- d) 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 and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e) The test-receiver system was set to quasi-peak detect function and specified bandwidth with maximum hold mode when the test frequency is below 1 GHz.
- f) The test-receiver system was set to peak and average detect function and specified bandwidth with maximum hold mode when the test frequency is above 1 GHz. If the peak reading value also meets average limit, measurement with the average detector is unnecessary.

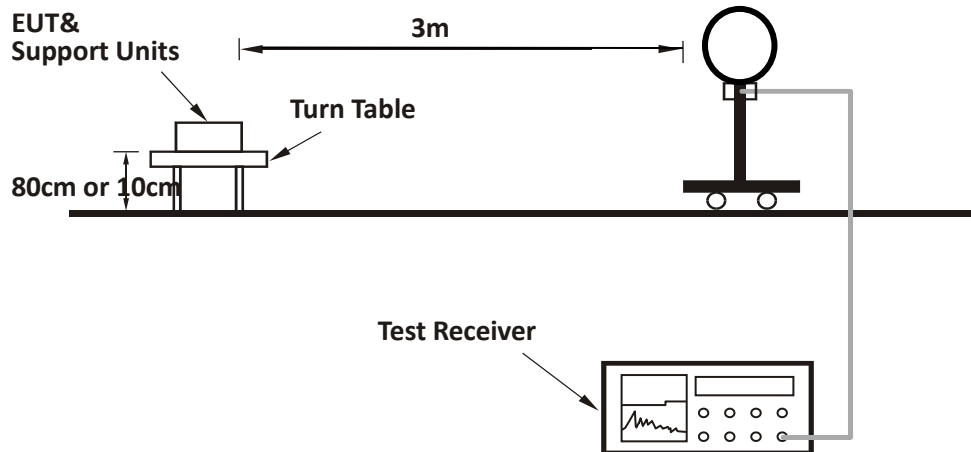
Note:

- 1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection (QP) at frequency below 1GHz.
- 2. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz for Peak detection (PK) at frequency above 1GHz.
- 3. All modes of operation were evaluated and the worst-case emissions were reported

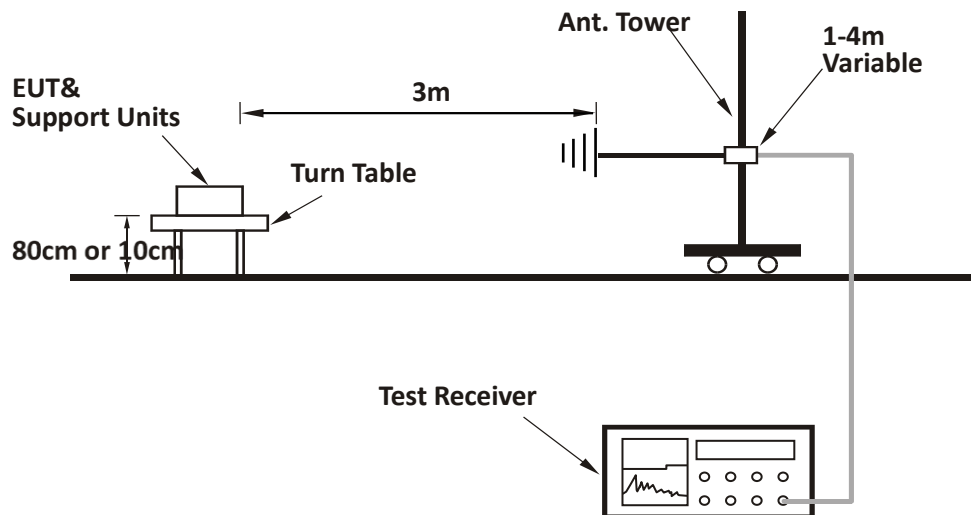
TEST REPORT

3.3 Test Configuration

For Radiated emission below 30MHz:

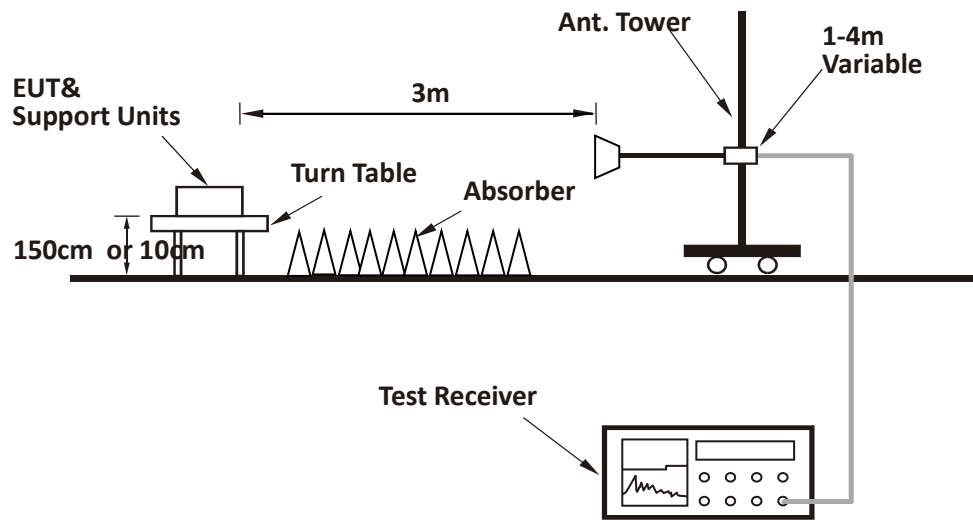


For Radiated emission 30MHz to 1GHz:



TEST REPORT

For Radiated emission above 1GHz:



TEST REPORT

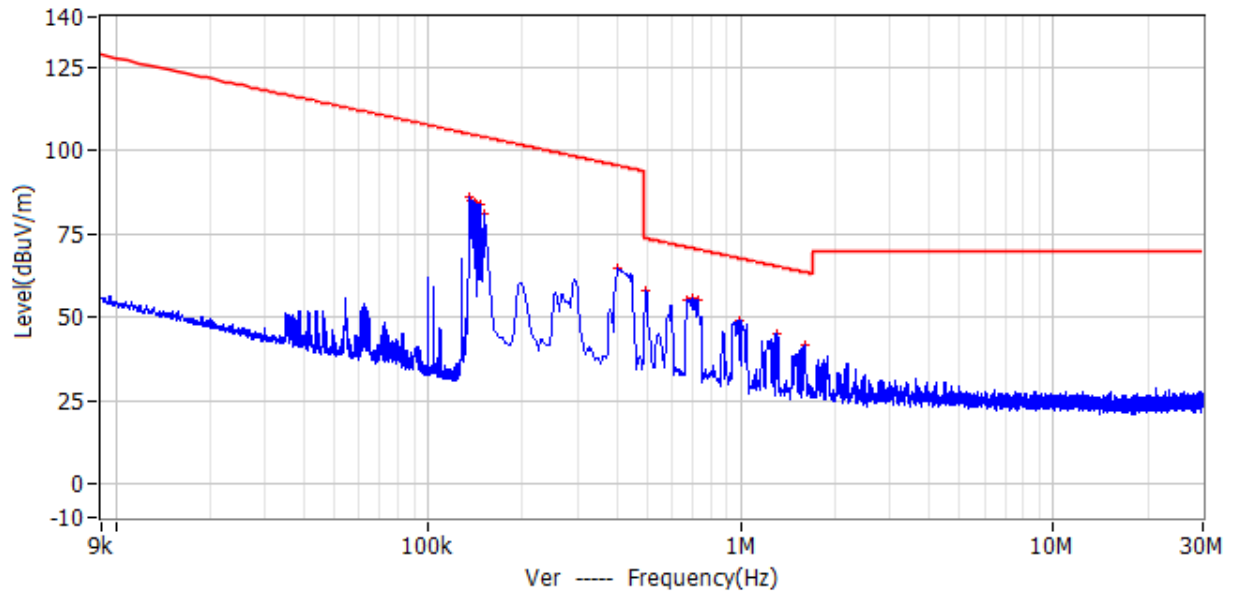
3.4 Test Results of Radiated Emissions

EUT was tested with full load and we listed the worst results in the report.

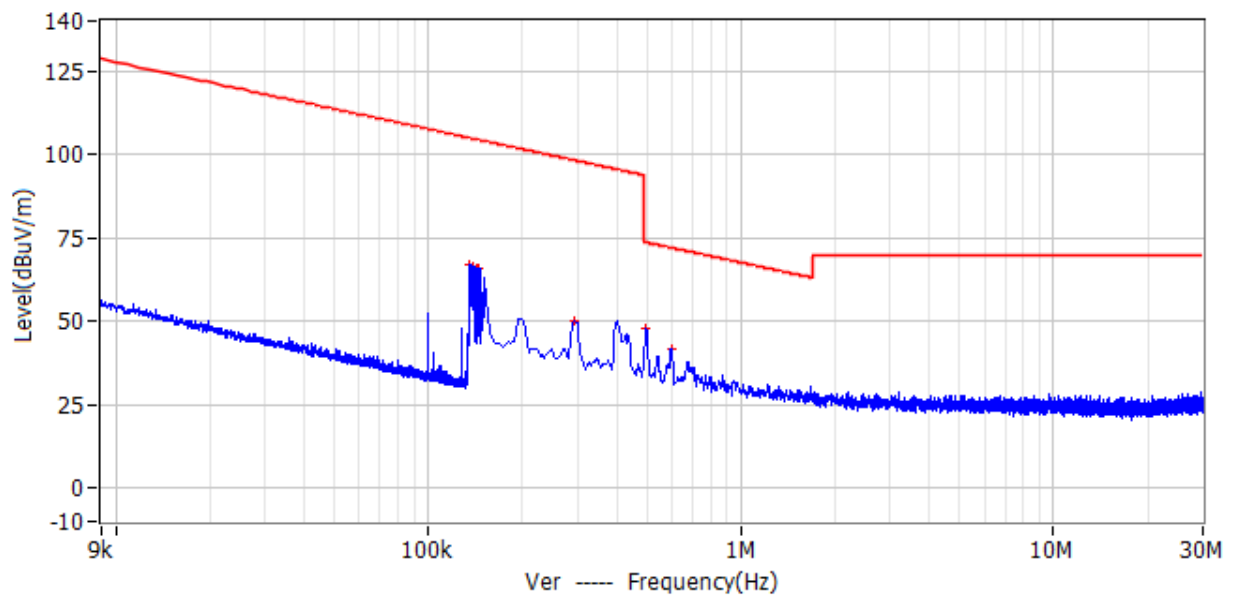
Below 30MHz:

Test Curve:

X

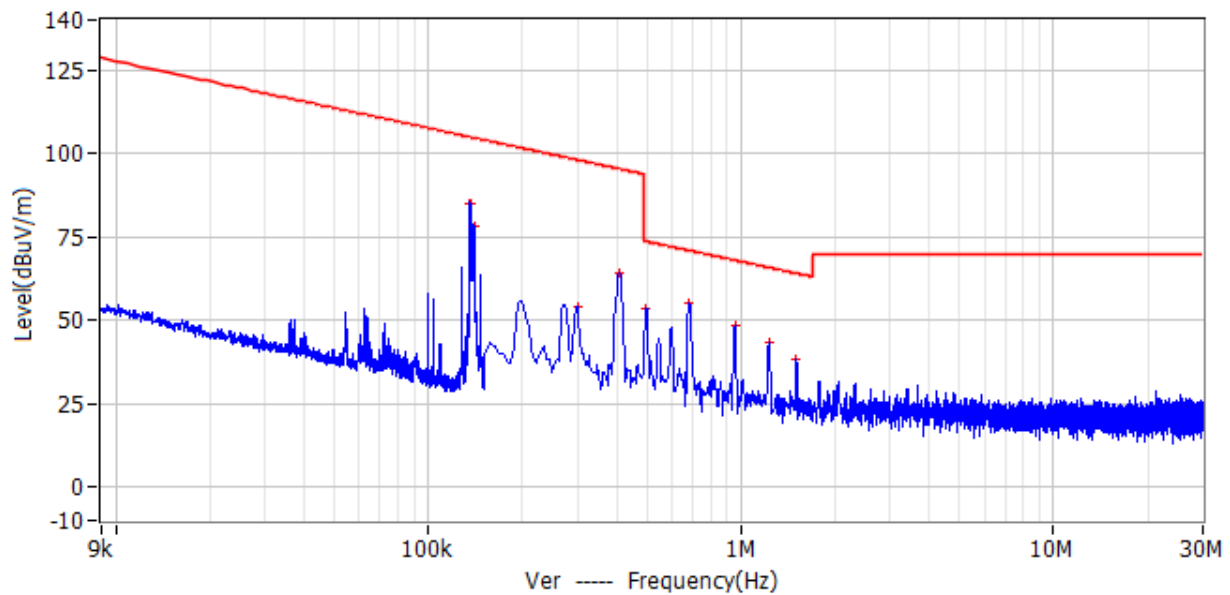


Y



TEST REPORT

Z



Test Data:

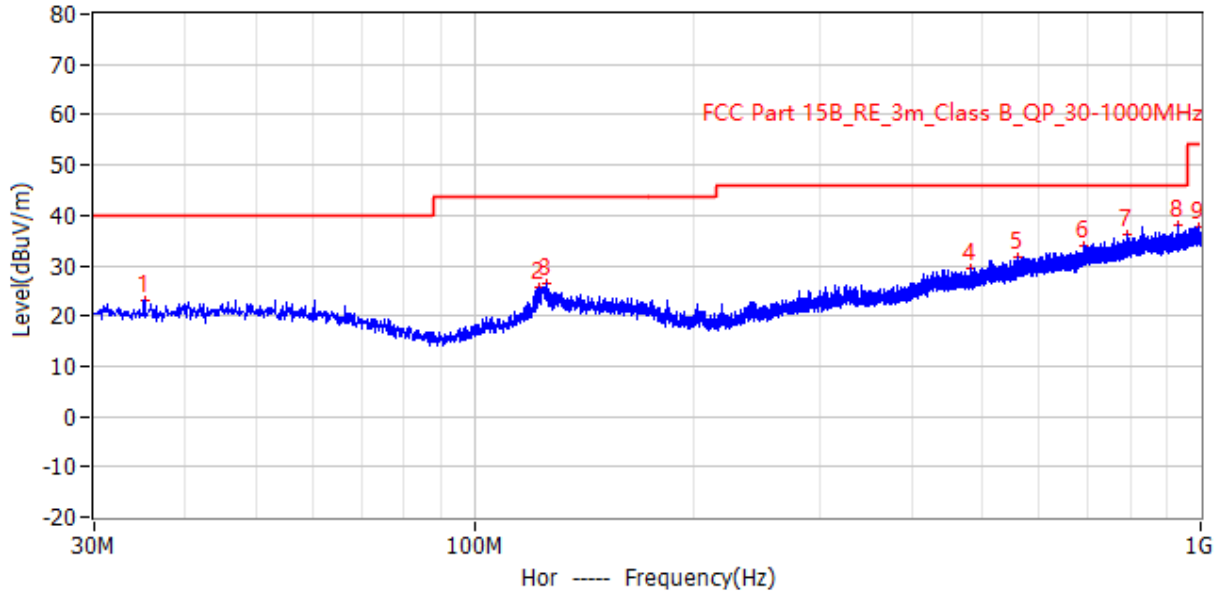
Antenna Polarization	Frequency	Limit dB μ V/m	Level dB μ V/m	Delta dB	Factor dB	Detector	Remark
X	134.984kHz	105.00	85.96	-19.04	18.99	PK	Fundamental
X	141.029kHz	104.62	84.44	-20.18	18.98	PK	Fundamental
X	150.000kHz	104.08	81.01	-23.07	18.97	PK	Fundamental
X	403.725kHz	95.48	64.70	-30.78	18.91	PK	Spurious
X	497.006kHz	73.68	57.87	-15.81	18.91	PK	Spurious
X	672.375kHz	71.05	55.33	-15.72	18.91	PK	Spurious
X	698.494kHz	70.72	55.83	-14.89	18.91	PK	Spurious
X	724.612kHz	70.40	54.97	-15.43	18.91	PK	Spurious
X	993.262kHz	67.66	49.15	-18.51	18.93	PK	Spurious
X	1.303MHz	65.31	44.81	-20.50	18.96	PK	Spurious
X	1.594MHz	63.55	41.69	-21.86	18.99	PK	Spurious
Y	139.760kHz	104.70	66.45	-38.25	18.98	PK	Fundamental
Y	142.316kHz	104.54	66.09	-38.45	18.98	PK	Fundamental
Y	144.977kHz	104.38	65.75	-38.63	18.98	PK	Fundamental
Y	291.788kHz	98.30	50.24	-48.06	18.92	PK	Spurious
Y	497.006kHz	73.68	47.87	-25.81	18.91	PK	Spurious
Y	597.750kHz	72.07	41.81	-30.26	18.91	PK	Spurious
Z	135.741kHz	104.95	85.22	-19.73	18.98	PK	Fundamental
Z	140.130kHz	104.67	77.96	-26.71	18.98	PK	Fundamental
Z	299.250kHz	98.08	54.21	-43.87	18.91	PK	Spurious
Z	407.456kHz	95.40	64.08	-31.32	18.91	PK	Spurious
Z	497.006kHz	73.68	53.54	-20.14	18.91	PK	Spurious
Z	683.569kHz	70.91	54.95	-15.96	18.91	PK	Spurious
Z	959.681kHz	67.96	48.39	-19.57	18.93	PK	Spurious
Z	1.236MHz	65.77	43.45	-22.32	18.95	PK	Spurious
Z	1.497MHz	64.10	38.22	-25.88	18.98	PK	Spurious

TEST REPORT

30MHz to 1000MHz:

Test Curve:

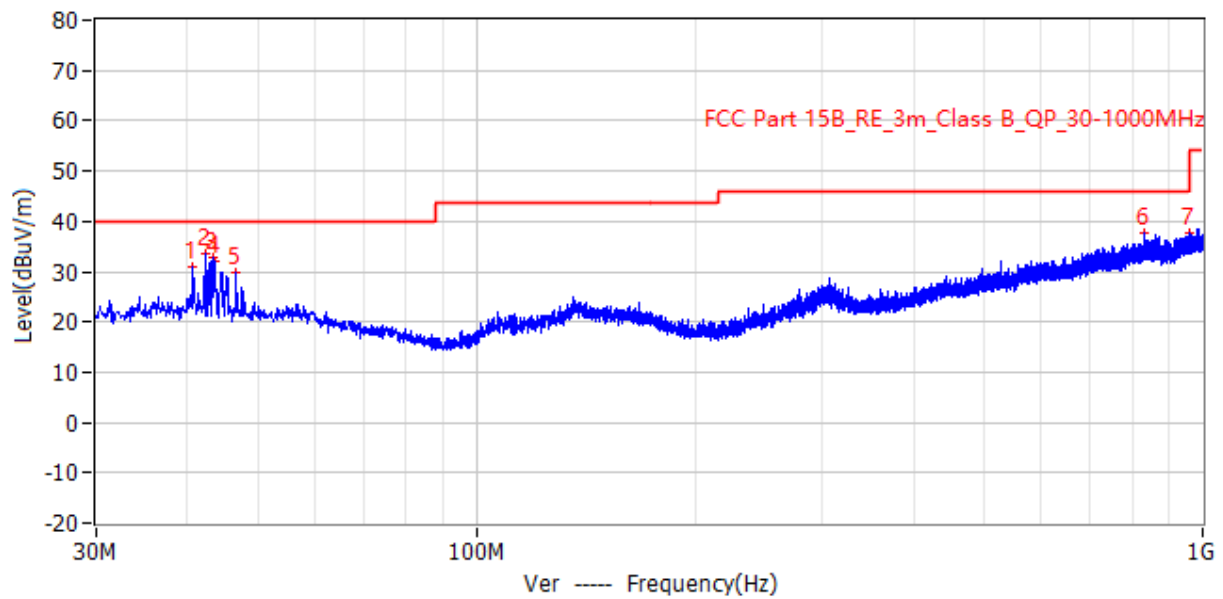
Horizontal



No.	Frequency	Limit dBuV/m	Level dBuV/m	Delta dB	Reading dBuV/m	Factor dB	Detector	Polar
1*	35.238MHz	40.00	23.16	-16.84	9.75	13.41	PK	Hor
2*	122.538MHz	43.50	25.78	-17.72	13.34	12.44	PK	Hor
3*	126.127MHz	43.50	26.37	-17.13	13.62	12.75	PK	Hor
4*	482.699MHz	46.00	29.55	-16.45	10.35	19.20	PK	Hor
5*	559.814MHz	46.00	31.65	-14.35	11.10	20.55	PK	Hor
6*	688.533MHz	46.00	33.80	-12.20	10.70	23.10	PK	Hor
7*	794.457MHz	46.00	36.11	-9.89	11.44	24.67	PK	Hor
8*	931.906MHz	46.00	37.89	-8.11	11.89	26.00	PK	Hor
9*	993.889MHz	54.00	37.63	-16.37	10.95	26.68	PK	Hor

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Vertical



No.	Frequency	Limit dBμV/m	Level dBμV/m	Delta dB	Reading dBμV/m	Factor dB	Detector	Polar
1*	40.767MHz	40.00	30.76	-9.24	16.78	13.98	PK	Ver
2*	42.513MHz	40.00	33.44	-6.56	19.31	14.13	PK	Ver
3*	43.386MHz	40.00	32.64	-7.36	18.44	14.20	PK	Ver
4*	43.774MHz	40.00	32.16	-7.84	17.93	14.23	PK	Ver
5*	46.781MHz	40.00	29.83	-10.17	15.47	14.36	PK	Ver
6*	831.511MHz	46.00	37.52	-8.48	12.15	25.37	PK	Ver
7*	959.745MHz	46.00	37.74	-8.26	11.17	26.57	PK	Ver

Remark: 1. Factor = Antenna Factor + Cable Loss (+ Amplifier, for higher than 1GHz), the value was added to Original Receiver Reading by the software automatically.
 2. Level = Original Receiver Reading + Factor
 3. Delta = Level - Limit
 4. If the PK Level is lower than AV limit, the AV test can be elided.

TEST REPORT

4 Conducted emissions.

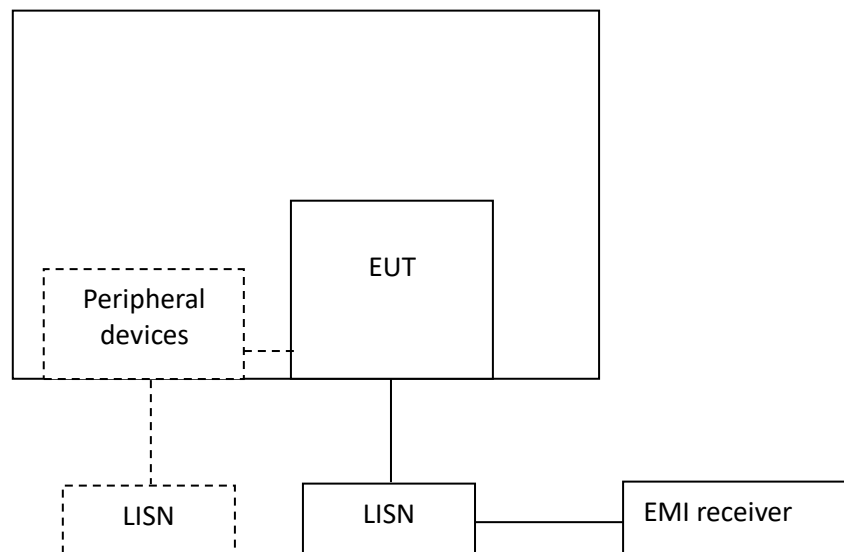
Test result: Pass

4.1 Limit

Frequency of Emission (MHz)	Conducted Emissions Limit (dBuV)	
	QP	AV
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.

4.2 Test Configuration



TEST REPORT**4.3 Measurement Procedure**

Measured levels of ac power-line conducted emission shall be the emission voltages from the voltage probe, where permitted, or across the 50 Ω LISN port (to which the EUT is connected), where permitted, terminated into a 50 Ω measuring instrument. All emission voltage and current measurements shall be made on each current-carrying conductor at the plug end of the EUT power cord by the use of mating plugs and receptacles on the LISN, if used. Equipment shall be tested with power cords that are normally supplied or recommended by the manufacturer and that have electrical and shielding characteristics that are the same as those cords normally supplied or recommended by the manufacturer. For those measurements using a LISN, the 50 Ω measuring port is terminated by a measuring instrument having 50 Ω input impedance. All other ports are terminated in 50 Ω loads.

Tabletop devices shall be placed on a platform of nominal size 1 m by 1.5 m, raised 80 cm above the reference ground plane. The vertical conducting plane or wall of an RF-shielded (screened) room shall be located 40 cm to the rear of the EUT. Floor-standing devices shall be placed either directly on the reference ground-plane or on insulating material as described in ANSI C63.4. All other surfaces of tabletop or floor-standing EUTs shall be at least 80 cm from any other grounded conducting surface, including the case or cases of one or more LISNs.

The bandwidth of the test receiver is set at 9 kHz.

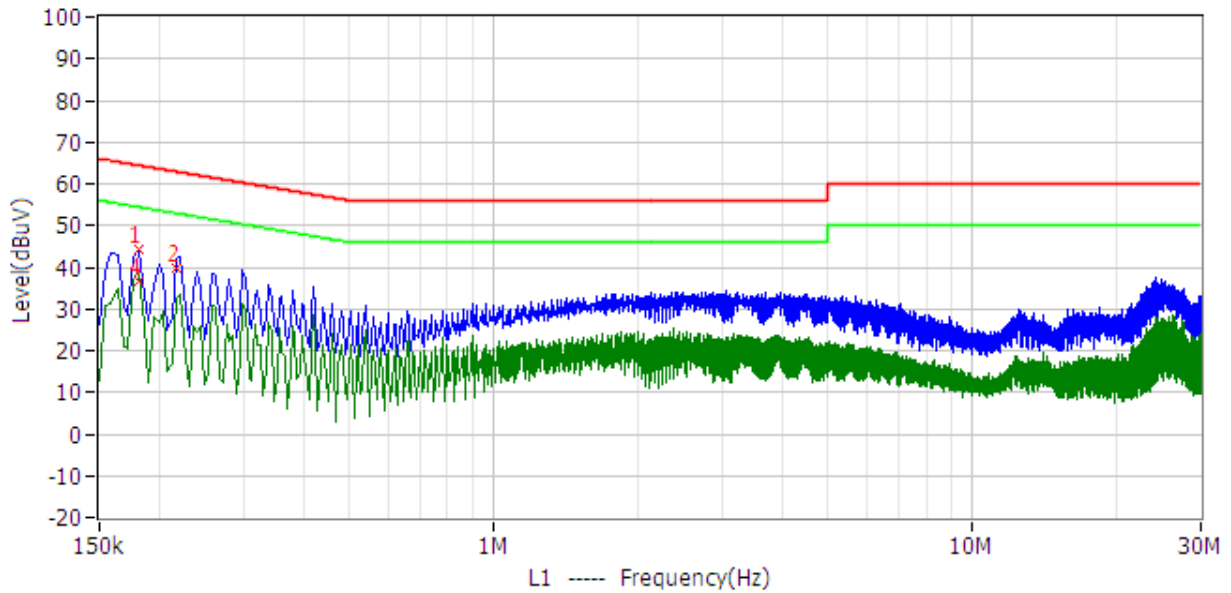
TEST REPORT

4.4 Test Results of Conducted Emissions

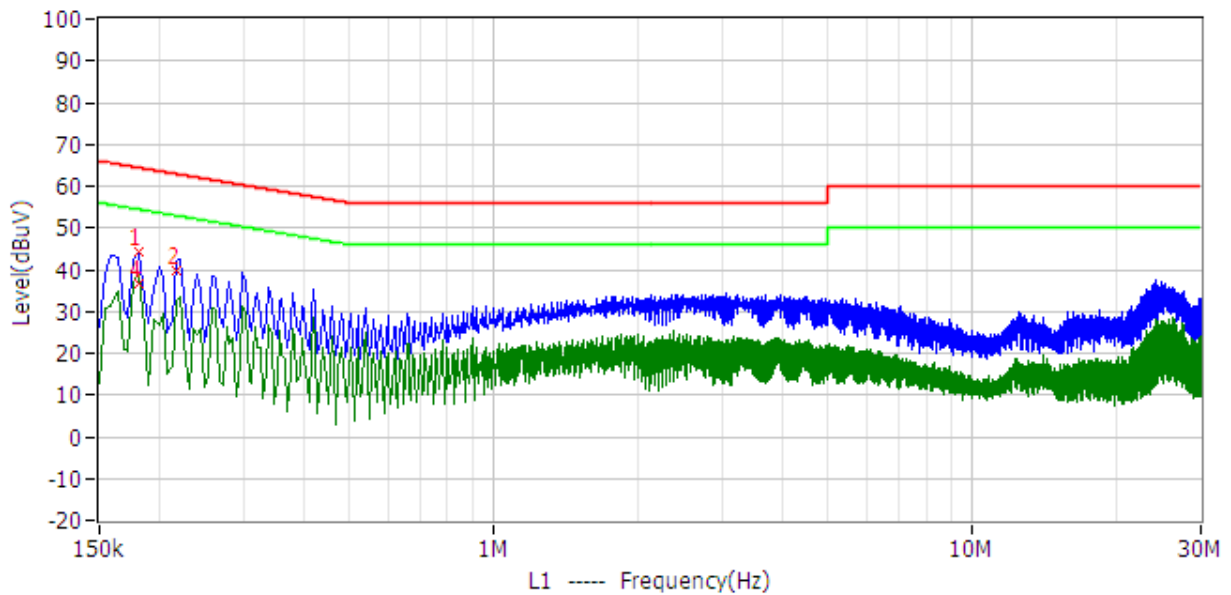
Test Curve:

Under charging mode

L-Line



N-Line



TEST REPORT

Test Data:

No.	Frequency	Limit dBμV	Level dBμV	Delta dB	Reading dBμV	Factor dB	Detector	Phase
1	181.500kHz	64.42	44.24	-20.18	34.24	10.00	QP	L1
2	217.500kHz	62.91	39.68	-23.23	29.68	10.00	QP	L1
3	181.500kHz	64.42	43.74	-20.68	33.64	10.10	QP	N
4	181.500kHz	54.42	36.64	-17.78	26.64	10.00	CAV	L1
5	181.500kHz	54.42	36.50	-17.92	26.40	10.10	CAV	N
6	217.500kHz	52.91	31.50	-21.41	21.40	10.10	CAV	N

*Remark: 1. Factor = LISN Factor + Cable Loss, the value was added to Original Receiver Reading by the software automatically,
 2. Level = Reading + Factor,
 3. Delta = Level - Limit,
 4. If the PK Level is lower than AV limit, the AV test can be elided.*

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5 Emission Bandwidth

Test result: **PASS**

5.1 Limit

The 20dB bandwidth should be fallen in the allocated operating frequency range.
No limit for 99% bandwidth.

5.2 Measurement Procedure

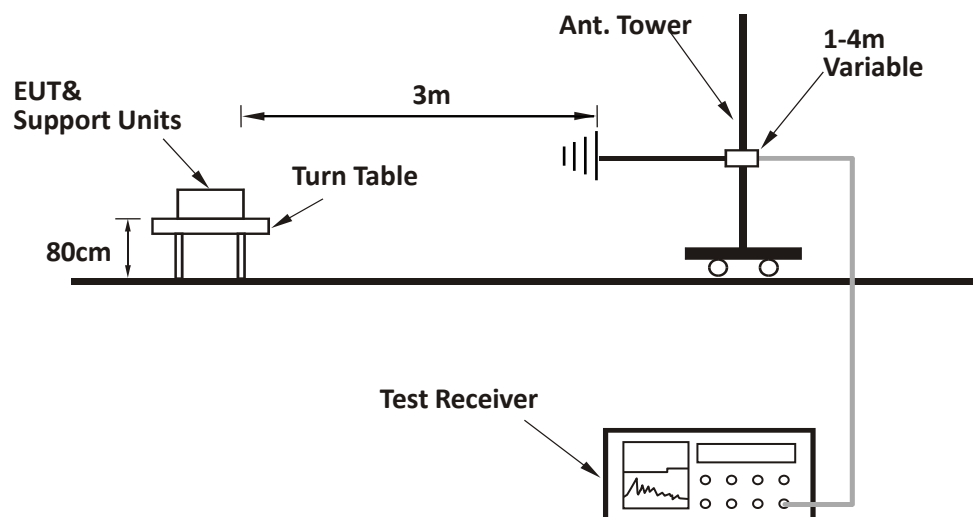
The measurement was applied in a 3m semi-anechoic chamber.

The center of the loop antenna shall be 1 m above the horizontal metal ground plane.

The following procedure shall be used for measuring (99 %) power bandwidth:

1. Set center frequency to the nominal EUT channel center frequency.
2. Set RBW = 1 % to 5 % of the OBW
3. Set VBW $\geq 3 \cdot$ RBW
4. Video averaging is not permitted. Where practical, a sample detection and single sweep mode shall be used. Otherwise, peak detection and max hold mode (until the trace stabilizes) shall be used.
5. Use the 99 % power bandwidth function of the instrument (if available).
6. the 20dB bandwidth is also measured with the same setting.

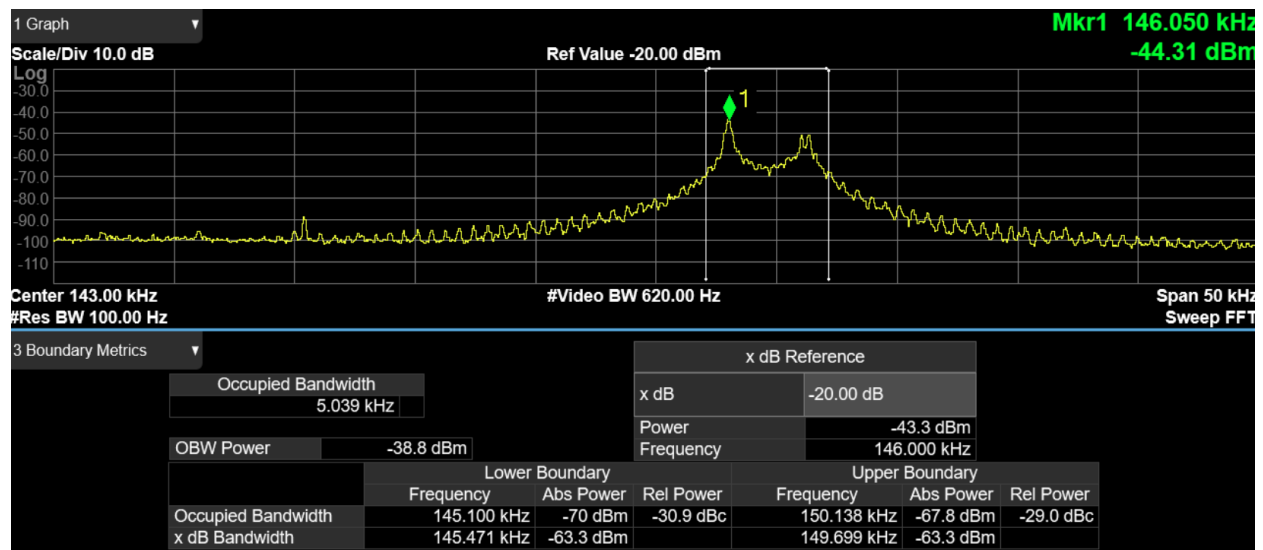
5.3 Test Configuration



TEST REPORT

5.4 Test results

	Lower point (KHz)	Higher point (KHz)	Bandwidth (kHz)	Allocated bandwidth (MHz)
20dB Bandwidth	145.471	149.699	4.228	115-205
Occupied bandwidth	145.100	150.138	5.039	115-205



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6 Antenna requirement

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 shall be considered sufficient to comply with the provisions of this section.

Result:

EUT uses permanently attached antenna to the intentional radiator, so it can comply with the provisions of this section.

***** END *****