

Shenzhen Cino Technology Ltd

TEST REPORT

SCOPE OF WORK

EMC TESTING—CB1-0-01

REPORT NUMBER

251216011GZU-001

ISSUE DATE

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FCC Part 15.225

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TEST REPORT

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Shenzhen, China
Manufacturing Site : Same as applicant
Intertek Report No: 251216011GZU-001
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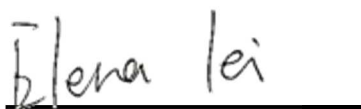
Test standards

47 CFR PART 15 Subpart C: 2024 section 15.225

Sample Description

Product : CUBO Single Serve Beverage System
Model No. : CB1-0-01
Electrical Rating : AC120V, 60Hz, 1580W
Serial No. : Not Labeled
Date Received : 16 December 2025
Date Test : 06 February 2026
Conducted

Prepared and Checked By



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1.0 TEST RESULT SUMMARY

Test Item	Test Requirement	Test Method	Result
Antenna Requirement	FCC PART 15 C Section 15.203	FCC PART 15 C Section 15.203	PASS
Occupied Bandwidth	FCC PART 15 C section 15.215(c)	ANSI C63.10: Clause 6.9	PASS
Radiated Emission	FCC PART 15 C section 15.225 (a), (b), (c), (d)	ANSI C63.10: Clause 6.4, 6.5 & 6.10	PASS
Frequency Stability	FCC PART 15 C section 15.225 (e)	ANSI C63.10: Clause 6.8	PASS
Conducted Emissions at Mains Terminals	FCC PART 15 C section 15.207	ANSI C63.10: Clause 6.2	PASS
Remark: N/A: not applicable. Refer to the relative section for the details. EUT: In this whole report EUT means Equipment Under Test. Tx: In this whole report Tx (or tx) means Transmitter. Rx: In this whole report Rx (or rx) means Receiver. RF: In this whole report RF means Radio Frequency. ANSI C63.10: the detail version is ANSI C63.10:2020 in the whole report.			

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2.0 General Description

2.1 Product Description

Operating Frequency	13.56 MHz
Type of Modulation:	ASK
Number of Channels	1 Channel
Channel Separation:	N/A
Antenna Type	Integral loop antenna
Power Supply:	120V/60Hz
Power cord:	N/A

2.2 Related Submittal(s) Grants

This is an application for certification of:
DXX(Part 15 Low Power Communication Device Transmitter).

Remaining portions are subject to the following procedures:

1. Receiver portion: exempt from technical requirement of this Part.

2.3 Test Methodology

Both AC mains line-conducted and radiated emission measurements were performed according to the procedures in ANSI C63.10. Radiated emission measurement was performed in semi-anechoic chamber and conducted emission measurement was performed in shield room. For radiated emission measurement, preliminary scans and final tests were performed in the semi-anechoic chamber to determine the worst case modes. All radiated tests were performed at an antenna to EUT distance of 3 meters, unless stated otherwise.

2.4 Test Facility

All tests were performed at:
Intertek Testing Services Shenzhen Ltd. Guangzhou Branch
Room102/104, No 203, KeZhu Road, Science City, GETDD Guangzhou, China
Except Conducted Emissions was performed at:
Room101/301/401/102/202/302/402/502/602/702/802, No. 7-2, Caipin Road, Huangpu District, Guangzhou, Guangdong, China

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A2LA Certificate Number 0078.10

Intertek Testing Services Shenzhen Ltd. Guangzhou Branch is accredited by A2LA and Listed in FCC website. FCC accredited test labs may perform both Certification testing under Parts 15 and 18 and Declaration of Conformity testing.

3.0 System Test Configuration

3.1 Justification

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, AC power line was manipulated to produce worst case emissions. It was powered by AC 120V/60Hz supply.

When below 30MHz, the measurement antenna was positioned with its plane perpendicular to the ground at the specified distance. When perpendicular to the ground plane, the lowest height of the magnetic antenna was 1 m above the ground and was positioned at 3m distance from the EUT. During testing the loop antenna was rotated about its vertical axis for maximum response at each azimuth and also investigated with the loop positioned in the horizontal plane. For each measurement antenna alignment, the EUT shall be rotated through 0° to 360° on a turntable.

When above 30MHz, 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.

All readings are extrapolated back to the equivalent three meter reading using inverse scaling with distance. The spurious emissions more than 20 dB below the permissible value are not reported.

For an intentional radiator, the spectrum shall be investigated from the lowest radio frequency signal generated in the device, without going below 9 kHz, up to at least the frequency shown in the following table:

Frequency range of radiated emission measurements

Lowest frequency generated in the device	Upper frequency range of measurement
9 kHz to below 10 GHz	10th harmonic of highest fundamental frequency or to 40 GHz, whichever is lower
At or above 10 GHz to below 30 GHz	5th harmonic of highest fundamental frequency or to 100 GHz, whichever is lower
At or above 30 GHz	5th harmonic of highest fundamental frequency or to 200 GHz, whichever is lower, unless otherwise specified

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Number of fundamental frequencies to be tested in EUT transmit band

Frequency range in which device operates	Number of frequencies	Location in frequency range of operation
1 MHz or less	1	Middle
1 MHz to 10 MHz	2	1 near top and 1 near bottom
More than 10 MHz	3	1 near top, 1 near middle and 1 near bottom

3.2 EUT Exercising Software

The NFC starts automatically.

3.3 Special Accessories

No special accessories used.

3.4 Measurement Uncertainty

N o.	Item	M easurem ent Uncertainty
1	20 dB Bandwidth	2.31%
	6dB Bandwidth	
	99% Bandwidth	
2	Carrier Frequencies Separated	2.31%
3	Dwell Time	1.19%
4	Maximum Peak Conducted Output Power	1.98 dB
5	Peak Power Spectral Density	1.98 dB
6	Out of Band Conducted Emissions	1.98 dB
7	Band edges measurement	1.98 dB
8	Radiated Emissions	3.64 dB (9 kHz-30 MHz)
		4.26 dB (30 MHz-1 GHz)
		4.96 dB (1 GHz-18 GHz)
		5.16 dB (18 GHz-40 GHz)
9	Conducted Emissions at Mains Terminals	2.23 dB
10	Temperature	0.81 °C
11	Humidity	1.73%
12	Time	1.19%

The measurement uncertainty describes the overall uncertainty of the given measured value during the operation of the EUT.

Measurement uncertainty is calculated in accordance with ETSI TR 100 028-2001.

The measurement uncertainty is given with a confidence of 95%, k=2.

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When determining of the test conclusion, the Measurement Uncertainty of test has been considered.

Uncertainty and Compliance – Unless the standard specifically states that measured values are to be extended by the measurement uncertainty in determining compliance, all compliance determinations are based on the actual measured value

3.5 Equipment Modification

Any modifications installed previous to testing by Shenzhen Cino Technology Ltd will be incorporated in each production model sold / leased in the United States.

No modifications were installed by Intertek Testing Services Shenzhen Ltd. Guangzhou Branch.

3.6 Support Equipment List and Description

This product was tested with corresponding support equipment as below:

Cable

Description	Model No.	Connector type	Cable length/type	Supplied by
Antenna cable	RF-01	SMA	0.2 m(unshielded)	Intertek

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4.0 Measurement Results

4.1 Antenna Requirement

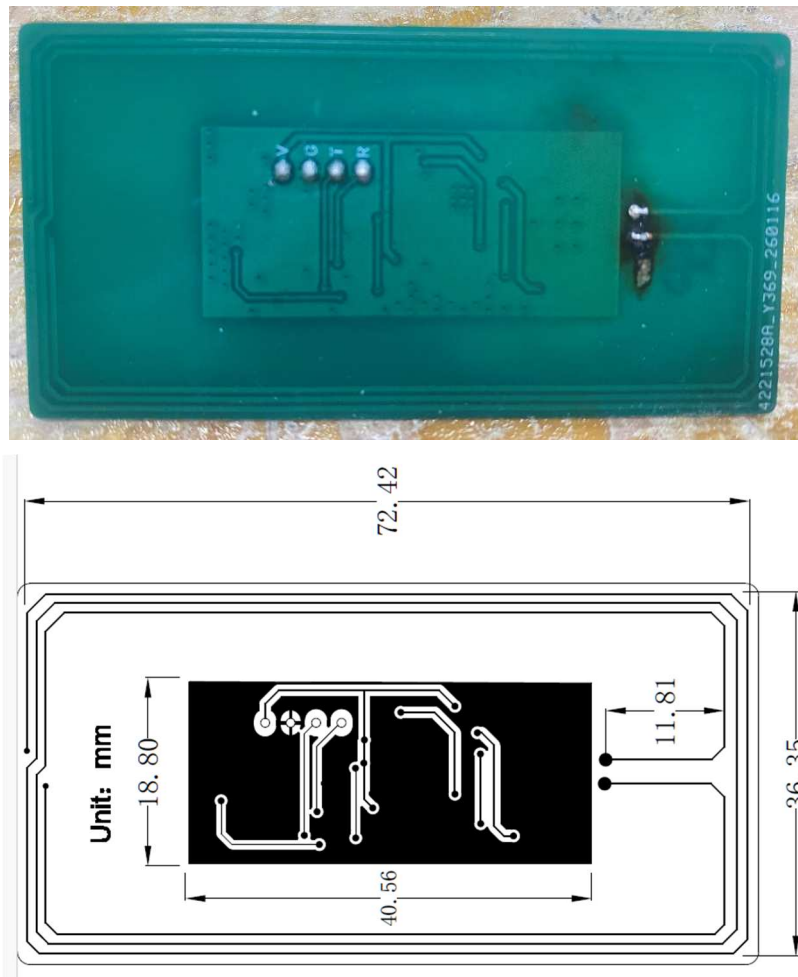
Standard requirement:

15.203 requirement:

For intentional device. According to 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.

EUT Antenna

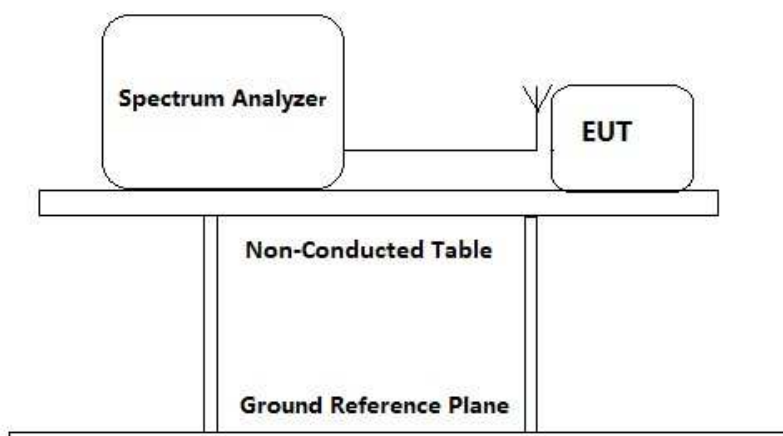
The antenna is an integral loop antenna and no consideration of replacement.
Antenna size design:



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4.2 Occupied Bandwidth

Test Requirement:	FCC PART 15 C section 15.215(c) (c) Intentional radiators operating under the alternative provisions to the general emission limits, as contained in §§ 15.217 through 15.257 and in subpart E of this part, must be designed to ensure that the 20 dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equipment operates, is contained within the frequency band designated in the rule section under which the equipment is operated
Test Method:	ANSI C63.10: Clause 6.9
Test Status:	Pre-Scan has been conducted to determine the worst-case mode.
Test Configuration:	



Test Procedure:

The transmitter was operated at its maximum carrier power measured under normal test conditions.

- The instrument center frequency was set to the nominal EUT channel center frequency. The frequency span for the spectrum analyzer was between 1.5 times and 5.0 times the OBW(20 dB Bandwidth).
- The nominal IF filter bandwidth (3 dB RBW) was in the range of 1% to 5% of the OBW, and VBW was approximately three times the RBW.
- Set the reference level of the instrument as required, keeping the signal from exceeding the maximum input mixer level for linear operation. In general, the peak of the spectral envelope was more than $[10 \log (OBW/RBW)]$ below the reference level.
- Step a) through step c) might require iteration to adjust within the specified range.
- The dynamic range of the instrument at the selected RBW was more than 10 dB below the target “-20 dB down” requirement; that is, if the requirement calls for measuring the -20 dB OBW, the instrument noise floor at the selected RBW was at least 30 dB below

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the reference value.

- f) Peak detection and max hold mode (until the trace stabilizes) was used.
- g) Used the 20dB bandwidth function of the instrument and reported the measured bandwidth.
- h) The occupied bandwidth was reported by providing plot(s) of the measuring instrument display; the plot axes and the scale units per division was clearly labeled. Tabular data was reported in addition to the plot(s).

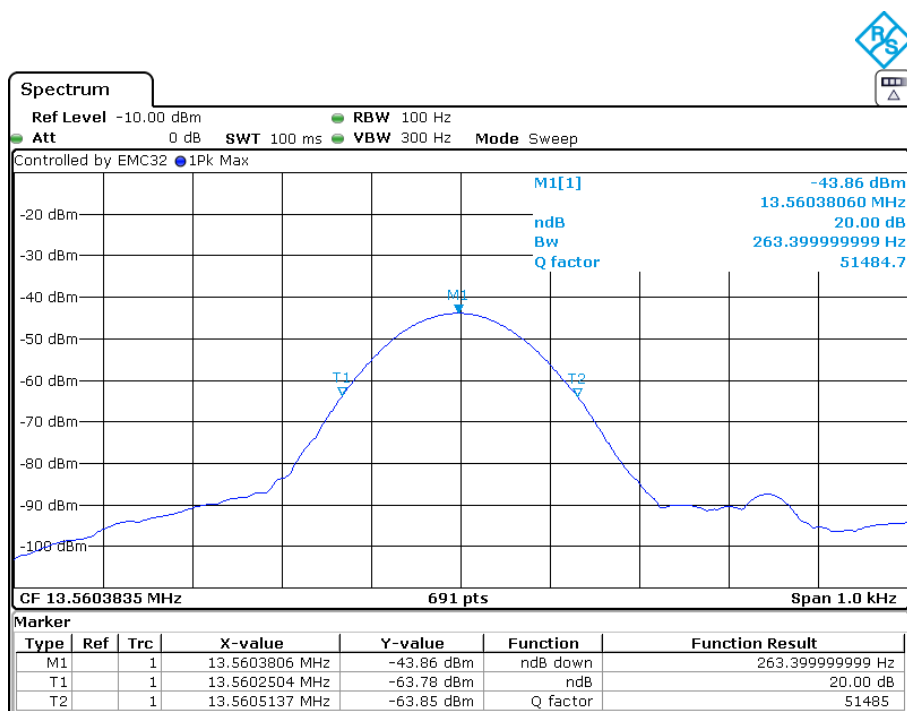
Used Test Equipment List

Spectrum Analyzer. Refer to Clause 5 Test Equipment List for details.

20 dB bandwidth:

Frequency (MHz)	20 dB bandwidth (Hz)	lower frequency (MHz)	upper frequency (MHz)	Assigned Band (MHz)	Result
13.560	263.4	13.5603	13.5605	13.110-14.010	Pass

Result plot as follows:



Test result: The unit does meet the FCC requirements.

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4.3 Radiated Emission

Test Requirement:

FCC PART 15 C section 15.225 (a), (b), (c), (d)

The field strength of emissions from intentional radiators operated under this Section shall not exceed the following:

15.225(a): The field strength of any emissions within the band 13.553-13.567 MHz shall not exceed 15,848 microvolts/meter at 30 meters.i.e. 124.0dB μ V/m @3 m.

15.225(b): Within the bands 13.410-13.553 MHz and 13.567-13.710 MHz, the field strength of any emissions shall not exceed 334 microvolts/meter at 30 meters. i.e. 90.5dB μ V/m @ 3 m.

15.225(c): Within the bands 13.110-13.410 MHz and 13.710-14.010 MHz the field strength of any emissions shall not exceed 106 microvolts/meter at 30 meters. i.e. 80.5dB μ V/m @ 3 m.

15.225(d) :The field strength of any emissions appearing outside of the 13.110-14.010 MHz band shall not exceed the general radiated emission limits in § 15.209.

Measurements were performed at 3m and the data was extrapolated to the specified measurement distance of 30m or 300m using the square of an inverse linear distance extrapolation factor (40 dB/decade) as specified in §15.31(f)(2)

§ 15.209 Limit:

Frequency (MHz)	Field Strength (μ V/m)	Measured 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 Method:

ANSI C63.10: Clause 6.4, 6.5 and 6.10.

Test Status:

Pre-Scan has been conducted to determine the worst-case mode from all possible configuration.

Test site:

Measurement Distance: 3m (Semi-Anechoic Chamber)

Detector:

Quasi-Peak detector:

RBW=200 Hz for 9 kHz to 150 kHz

RBW=9 kHz for 150 kHz to 30 MHz

RBW=120 kHz for 30 MHz to 1GHz

Sweep = auto

Trace = max hold

Field Strength Calculation:

The field strength is calculated by adding the reading on the Spectrum Analyzer to the factors associated with preamplifiers (if any), antennas, cables, pulse desensitization and average factors

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(when specified limit is in average and measurements are made with peak detectors). A sample calculation is included below:

$$FS = RA + AF + CF - AG + PD + AV$$

$$FS = RA + \text{Correct Factor} + AV$$

FS = Field Strength in dBμV/m

RA = Receiver Amplitude (including preamplifier) in dBμV

AF = Antenna Factor in dB

CF = Cable Attenuation Factor in dB

AG = Amplifier Gain in dB

PD = Pulse Desensitization in dB

AV = Average Factor in -dB

$$\text{Correct Factor} = AF + CF - AG + PD$$

Where:

In the radiated emission table which follows, the reading shown on the data table may reflect the preamplifier gain. An example of the calculations, where the reading does not reflect the preamplifier gain, follows:

$$FS = RA + AF + CF - AG + PD + AV$$

Assume a receiver reading of 62.0 dBμV is obtained. The antenna factor of 7.4 dB and cable factor of 1.6 dB is added. The amplifier gain of 29 dB is subtracted. The pulse desensitization factor of the spectrum analyzer was 0 dB, and the resultant average factor was -10 dB. The net field strength for comparison to the appropriate emission limit is 32 dBμV/m.

$$RA = 62.0 \text{ dB}\mu\text{V}$$

$$AF = 7.4 \text{ dB}$$

$$CF = 1.6 \text{ dB}$$

$$AG = 29.0 \text{ dB}$$

$$PD = 0 \text{ dB}$$

$$AV = -10 \text{ dB}$$

$$\text{Correct Factor} = 7.4 + 1.6 - 29.0 + 0 = -20 \text{ dB}$$

$$FS = 62 + (-20) + (-10) = 32 \text{ dB}\mu\text{V/m}$$

Section 15.205 Restricted bands of operation.

MHz	MHz	MHz	GHz
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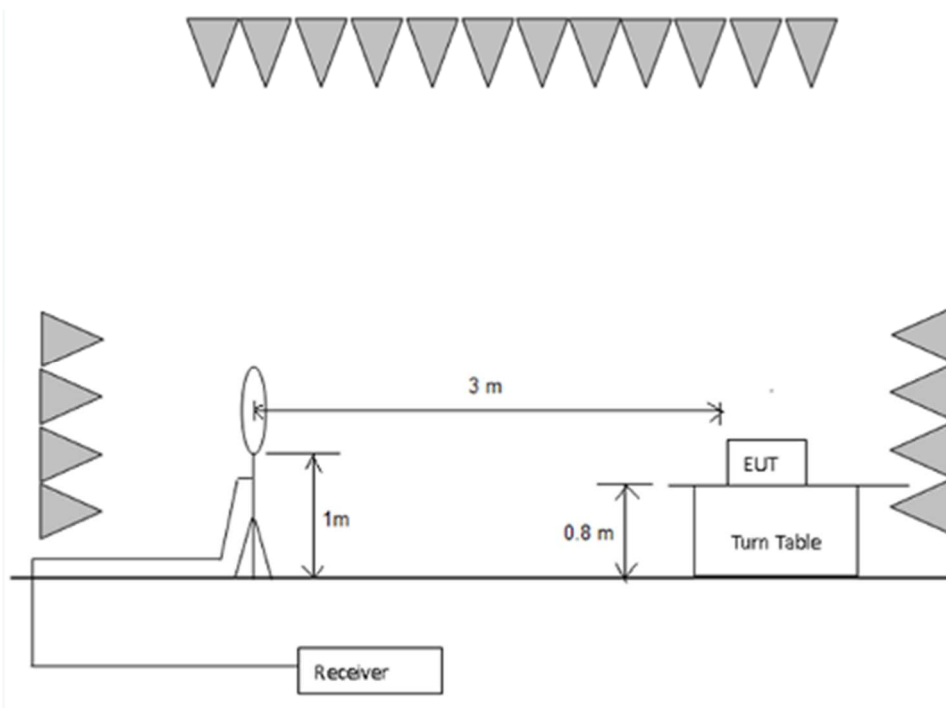
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0.090 - 0.110	16.42 - 16.423	399.9 - 410	4.5 - 5.15
¹ 0.495 - 0.505	16.69475 - 16.69525	608 - 614	5.35 - 5.46
2.1735 - 2.1905	16.80425 - 16.80475	960 - 1240	7.25 - 7.75
4.125 - 4.128	25.5 - 25.67	1300 - 1427	8.025 - 8.5
4.17725 - 4.17775	37.5 - 38.25	1435 - 1626.5	9.0 - 9.2
4.20725 - 4.20775	73 - 74.6	1645.5 - 1646.5	9.3 - 9.5
6.215 - 6.218	74.8 - 75.2	1660 - 1710	10.6 - 12.7
6.26775 - 6.26825	108 - 121.94	1718.8 - 1722.2	13.25 - 13.4
6.31175 - 6.31225	123 - 138	2200 - 2300	14.47 - 14.5
8.291 - 8.294	149.9 - 150.05	2310 - 2390	15.35 - 16.2
8.362 - 8.366	156.52475 -	2483.5 - 2500	17.7 - 21.4
8.37625 - 8.38675	156.52525	2655 - 2900	22.01 - 23.12
8.41425 - 8.41475	156.7 - 156.9	3260 - 3267	23.6 - 24.0
12.29 - 12.293	162.0125 - 167.17	3332 - 3339	31.2 - 31.8
12.51975 - 12.52025	167.72 - 173.2	3345.8 - 3358	36.43 - 36.5
12.57675 - 12.57725	240 - 285	3600 - 4400	
13.36 - 13.41	322 - 335.4		

The field strength of emissions appearing within these frequency bands shall not exceed the limits shown in 15.209.

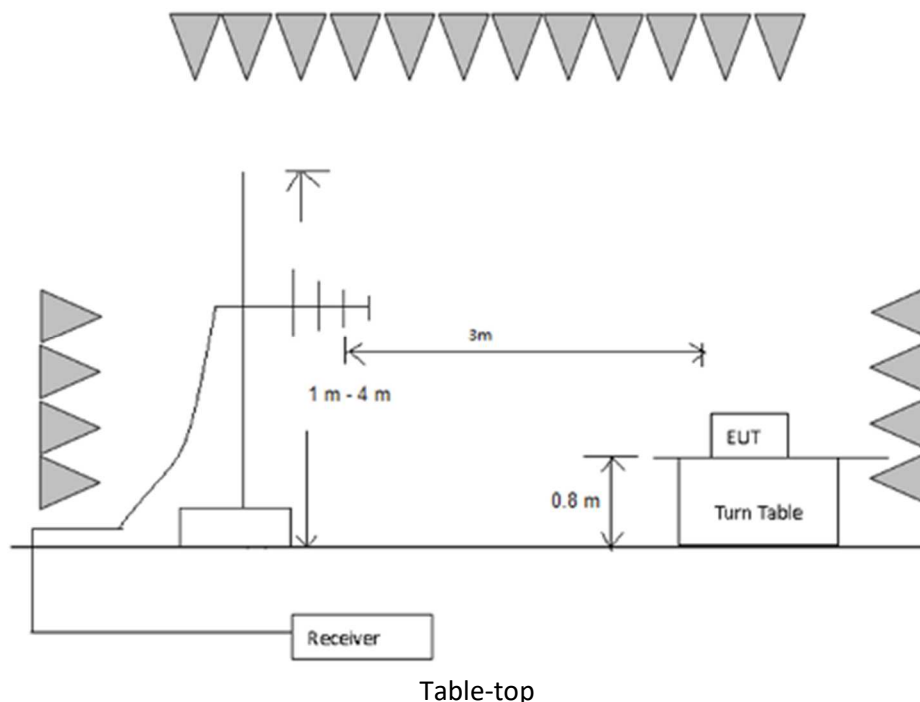
Test Configuration:

- 1) 9 kHz to 30 MHz emissions:



- 2) 30 MHz to 1 GHz emissions:

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Test Procedure:

1) 9 kHz to 30 MHz emissions:

For testing performed with the loop antenna, the lowest height of the magnetic antenna shall be 1 m above the ground and shall be positioned at the specified distance from the EUT. During testing the loop was rotated about its vertical axis for maximum response at each azimuth and also investigated with the loop positioned in the horizontal plane.

2) 30 MHz to 1 GHz emissions:

For testing performed with the TRILOG Super Broadband test Antenna. The measurement is performed with the EUT rotated 360°, the antenna height scanned between 1m and 4m, and the antenna rotated to repeat the measurement for both the horizontal and vertical antenna polarizations.

- 3) The receiver was scanned from 9 kHz to 200 MHz. When an emission was found, the table was rotated to produce the maximum signal strength. An initial pre-scan was performed for in peak detection mode using the receiver. The EUT was measured for both the Horizontal and Vertical polarities and performed a pre-test three orthogonal planes. For intentional radiators, measurements of the variation of the input power or the radiated signal level of the fundamental frequency component of the emission, as appropriate, shall be performed with the supply voltage varied between 85% and 115% of the nominal rated supply voltage. The worst case emissions were reported.

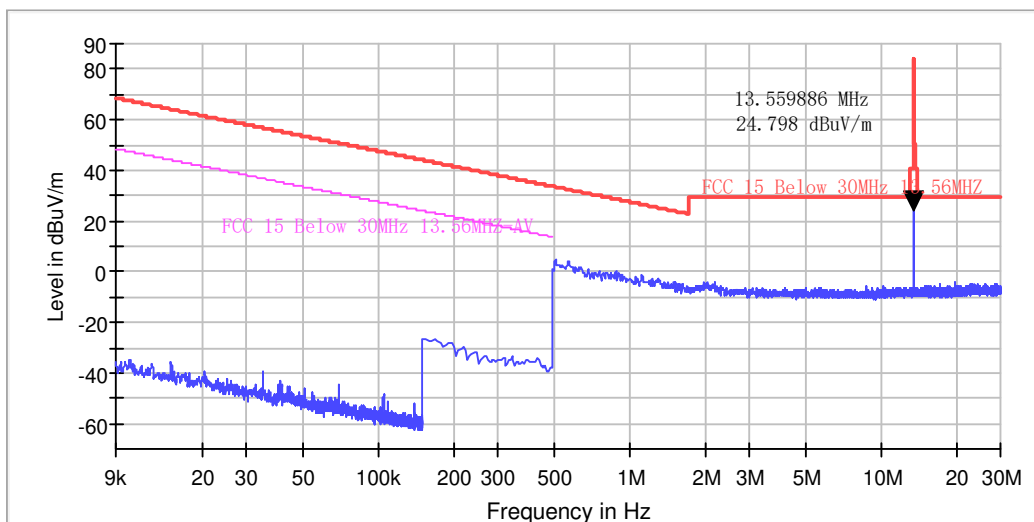
Used Test Equipment List:

3m Semi-Anechoic Chamber, EMI Test Receiver (9 kHz~7 GHz), Signal and Spectrum Analyzer (10 Hz~40 GHz), Loop antenna (9 kHz-30 MHz). TRILOG Super Broadband test Antenna(30 MHz-3 GHz) (RX), Double-Ridged Waveguide Horn Antenna (800 MHz-18 GHz)(RX) and High Frequency Antenna & preamplifier(18 GHz~26.5 GHz) (RX). Refer to Clause 5 Test Equipment List for details.

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Radiated Emissions (Below 30 MHz)

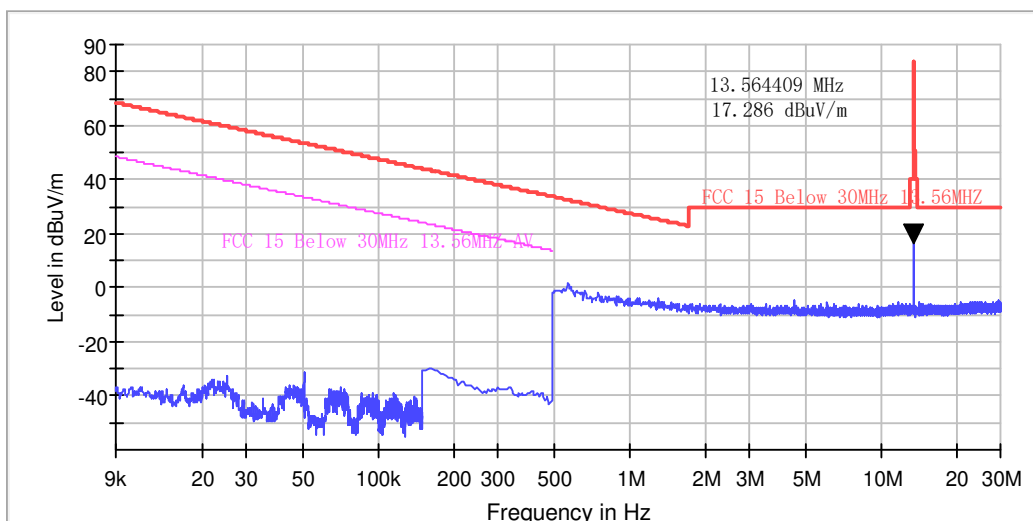
Operation Mode: Continuously transmitting
Horizontal



Frequency (MHz)	Receiver Reading Level (dBμV)	Correction factors (dB/m)	Emission Level (dBμV/m)@ 3m	Emission Level (dBμV/m) @30m	Limit (dBμV/m) @30m	Margin (dB)
13.56	43.8	21	64.8	24.8	84.0	59.2

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Vertical

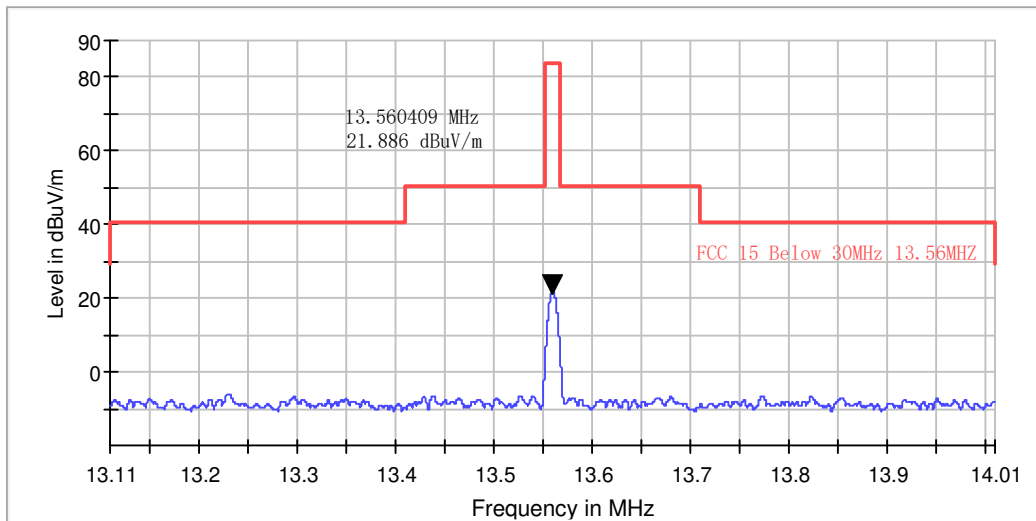


Frequency (MHz)	Receiver Reading Level (dBμV)	Correction factors (dB/m)	Emission Level (dBμV/m)@ 3m	Emission Level (dBμV/m) @30m	Limit (dBμV/m) @30m	Margin (dB)
13.56	36.3	21	57.3	17.3	84.0	66.7

All emission levels are more than 6 dB below the limit.

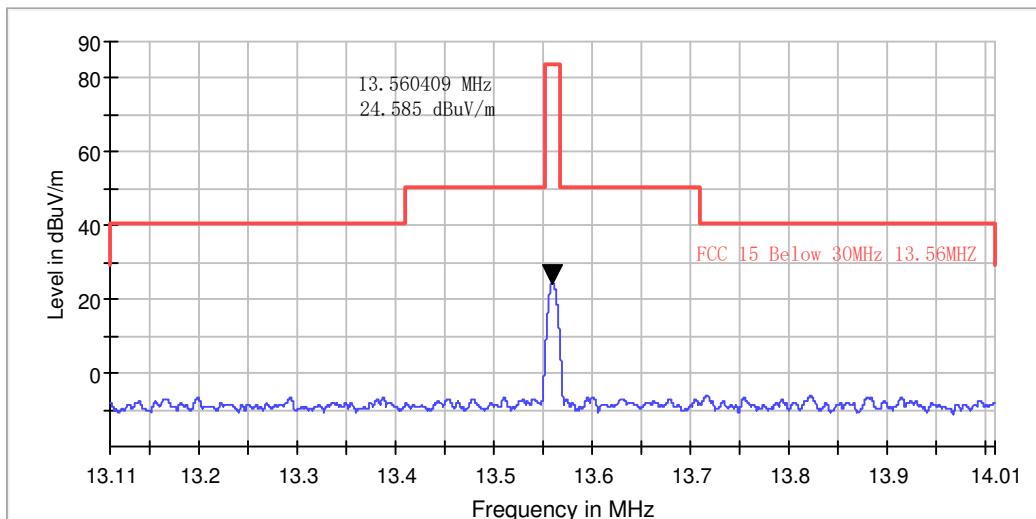
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Horizontal



Frequency (MHz)	Receiver Reading Level (dBμV)	Correction factors (dB/m)	Emission Level (dBμV/m)@ 3m	Emission Level (dBμV/m) @30m	Limit (dBμV/m) @30m	Margin (dB)
13.56	40.9	21	61.9	21.9	84.0	62.1

Vertical



Frequency (MHz)	Receiver Reading Level (dBμV)	Correction factors (dB/m)	Emission Level (dBμV/m)@ 3m	Emission Level (dBμV/m) @30m	Limit (dBμV/m)	Margin (dB)
13.56	43.6	21	64.6	24.6	84.0	59.4

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The emission limits shown above are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90 kHz, 110-490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.

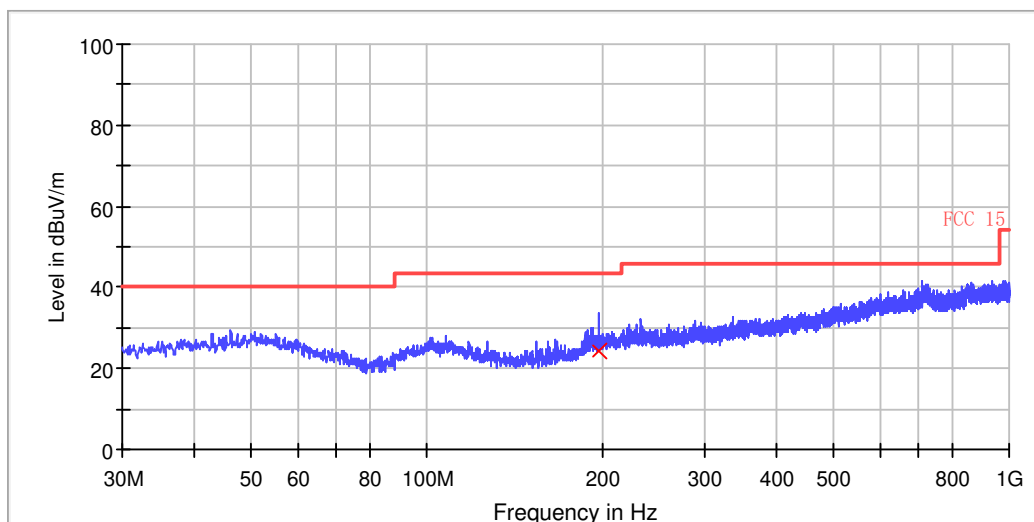
Remark:

1. Corr. (dB) = Antenna Factor (dB) + Cable Loss (dB)
2. Level (dBμV/m) = Corr. (dB) + Read Level (dBμV)
3. Margin (dB) = Limit (dBμV/m) –Level (dBμV/m)
4. Limit [dBμV/m] = 20*Log (Limit [μV/m])
5. Only record the date closed to limit
6. The emission is worst case on Horizontal
7. When Peak emission level was below AV or QP limit, the AV and QP emission level was not recorded.
8. Distance Extrapolation Factor [dB] = 20 log₁₀(300/3)² = 80dB [For emissions within 9kHz-490kHz]
9. Distance Extrapolation Factor [dB] = 20 log₁₀(30/3)² = 40dB [For emissions within 490kHz-30MHz]

Radiated Emissions (Above 30MHz)

Operation Mode:

Horizontal



QP

Frequency (MHz)	Quasi Peak (dBuV/m)	Bandwidth (kHz)	Pol	Corr. (dB)	Margin - QPK (dB)	Limit - QPK (dBuV/m)
197.240000	24.5	120.000	H	19.2	19.0	43.5

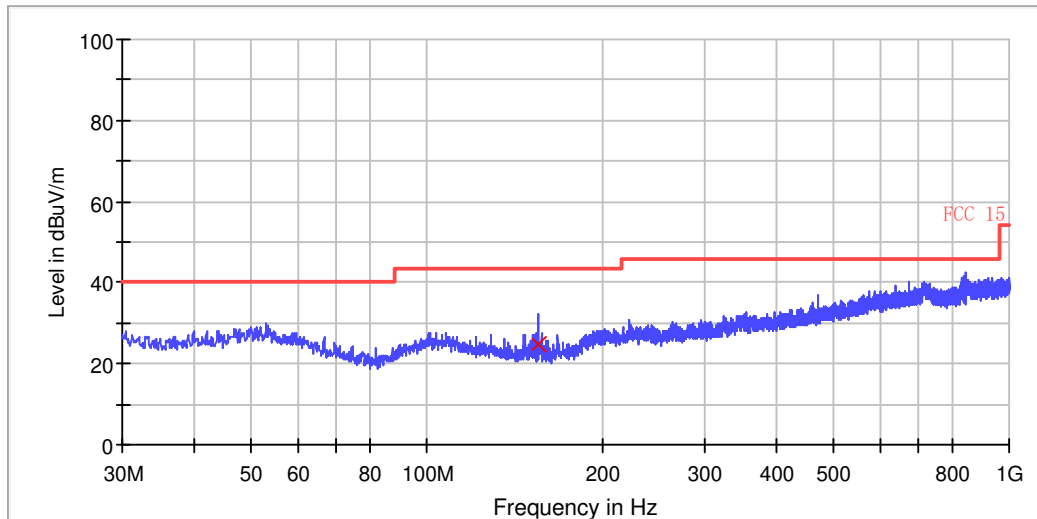
Remark:

1. Corr. (dB) = Antenna Factor (dB) + Cable Loss (dB)
2. Quasi Peak (dBμV/m) = Corr. (dB) + Read Level (dBμV)

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3. Margin (dB) = Limit QPK (dBμV/m) –Quasi Peak (dBμV/m)

Vertical



QP

Frequency (MHz)	Quasi Peak (dBμV/m)	Bandwidth (kHz)	Pol	Corr. (dB)	Margin - QPK (dB)	Limit - QPK (dBμV/m)
197.240000	24.5	120.000	H	19.2	19.0	43.5

Remark:

1. Corr. (dB) = Antenna Factor (dB) + Cable Loss (dB)
2. Quasi Peak (dBμV/m) = Corr. (dB) + Read Level (dBμV)
3. Margin (dB) = Limit QPK (dBμV/m) –Quasi Peak (dBμV/m)

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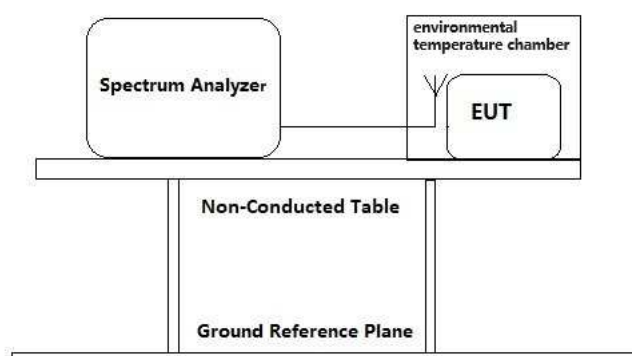
4.4 Frequency Stability

Test Requirement:

FCC Part 15 C section 15.225 (e)

(e) The frequency tolerance of the carrier signal shall be maintained within $\pm 0.01\%$ of the operating frequency over a temperature variation of -20 degrees to + 50 degrees C at normal supply voltage, and for a variation in the primary supply voltage from 85% to 115% of the rated supply voltage at a temperature of 20 degrees C. For battery operated equipment, the equipment tests shall be performed using a new battery.

Test Configuration:



Test Method:

ANSI C63.10: Clause 6.8

Test Procedure:

- (1) Supply the EUT with a new battery. Turn the EUT OFF and place it inside the environmental temperature chamber.
- (2) Set the temperature control on the chamber to +50 degrees C and allow the oscillator heater and the chamber temperature to stabilize.
- (3) While maintaining a constant temperature inside the environmental chamber, turn the EUT ON and record the operating frequency at startup, and at 2 minutes, 5 minutes, and 10 minutes after the EUT is energized. Four measurements in total are made.
- (4) Switch OFF the EUT. Lower the chamber temperature by not more than 10 °C, and allow the temperature inside the chamber to stabilize. Repeat step 3) through step 4) down to the lowest specified temperature.
- (5) At a temperature of 20°C, record the frequency at 85% and 115% of the nominal supply voltage.

Used Test Equipment List:

Signal and Spectrum Analyzer, Programmable Temperature & Humidity Test Chamber, Regulated DC Power supply. Refer to Clause 5 Test Equipment List for details.

The frequency is 13.56MHz, under unnormal conditions, it's should be within $\pm 0.01\%$: 13.558644 - 13.561356MHz

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Temperature: 50°C:

time	Measured Frequency (MHz)	Result
0 minutes	13.5603806	Pass
2 minutes	13.5603807	Pass
5 minutes	13.5603806	Pass
10 minutes	13.5603807	Pass

Temperature: 40°C:

time	Measured Frequency (MHz)	Result
0 minutes	13.5603806	Pass
2 minutes	13.5603806	Pass
5 minutes	13.5603806	Pass
10 minutes	13.5603807	Pass

Temperature: 30°C:

time	Measured Frequency (MHz)	Result
0 minutes	13.5603805	Pass
2 minutes	13.5603805	Pass
5 minutes	13.5603806	Pass
10 minutes	13.5603806	Pass

Temperature: 20°C:

time	Measured Frequency (MHz)	Result
0 minutes	13.5603805	Pass
2 minutes	13.5603806	Pass
5 minutes	13.5603806	Pass
10 minutes	13.5603807	Pass

Temperature: 10°C:

time	Measured Frequency (MHz)	Result
0 minutes	13.5603806	Pass
2 minutes	13.5603806	Pass
5 minutes	13.5603806	Pass
10 minutes	13.5603807	Pass

TEST REPORT

Temperature: 0°C:

time	Measured Frequency (MHz)	Result
0 minutes	13.5603806	Pass
2 minutes	13.5603807	Pass
5 minutes	13.5603807	Pass
10 minutes	13.5603807	Pass

Temperature: -10°C:

time	Measured Frequency (MHz)	Result
0 minutes	13.5603805	Pass
2 minutes	13.5603805	Pass
5 minutes	13.5603805	Pass
10 minutes	13.5603806	Pass

Temperature: -20°C:

time	Measured Frequency (MHz)	Result
0 minutes	13.5603806	Pass
2 minutes	13.5603806	Pass
5 minutes	13.5603806	Pass
10 minutes	13.5603807	Pass

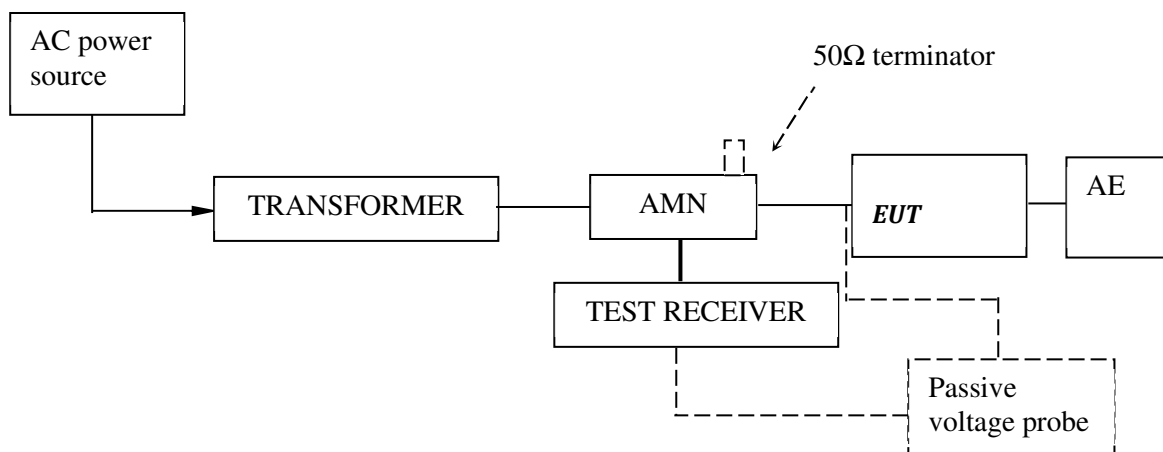
Temperature: 20°C:

Power Supply (V AC)	Measured Frequency (MHz)	Result
85%	13.5603806	Pass
95%	13.5603806	Pass
105%	13.5603806	Pass
115%	13.5603806	Pass

TEST REPORT

4.5 Conducted Emission Test

Test Configuration:



Test Setup and Procedure:

Test was performed according to ANSI C63.10 Clause 6.2. The EUT was set to achieve the maximum emission level. The mains terminal disturbance voltage was measured with the EUT in a shielded room. The EUT was connected to AC power source through an Artificial Mains Network which provides a 50Ω linear impedance. Artificial hand is used if appropriate (for handheld apparatus). The load/control terminal disturbance voltage was measured with passive voltage probe if appropriate.

The table-top EUT was placed on a 0.8m high non-metallic table above earthed ground plane (Ground Reference Plane). And for floor standing EUT, was placed on a 12 mm high non-metallic supported on GRP. The EUT keeps a distance of at least 0.8m from any other of the metallic surface. The Artificial Mains Network is situated at a distance of 0.8m from the EUT.

During the test, mains lead of EUT excess 0.8m was folded back and forth parallel to the lead so as to form a horizontal bundle with a length between 0.3m and 0.4m.

The bandwidth of test receiver was set at 9 kHz. The frequency range from 150 kHz to 30MHz was checked.

TEST REPORT

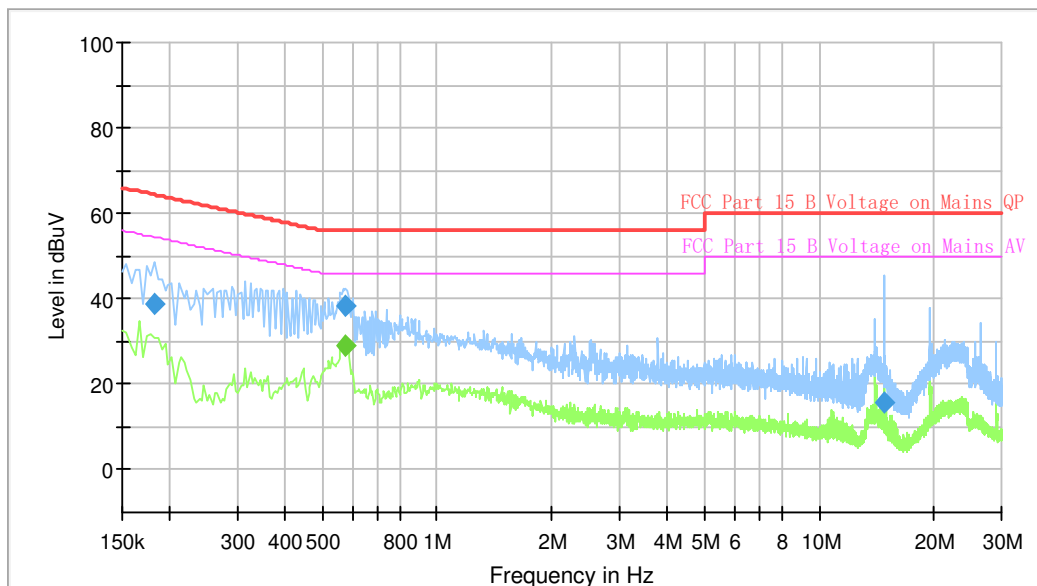
Test Data and Curve

At main terminal: Pass

Tested Wire: Live

Operation Mode: transmitting mode

Full Spectrum



Final Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Filter	Corr. (dB)
0.182000	38.71	---	64.39	25.68	1000.0	9.000	L1	ON	9.6
0.578000	---	28.84	46.00	17.16	1000.0	9.000	L1	ON	9.6
0.578000	38.32	---	56.00	17.68	1000.0	9.000	L1	ON	9.6
14.806000	15.89	---	60.00	44.11	1000.0	9.000	L1	ON	10.0

Remark:

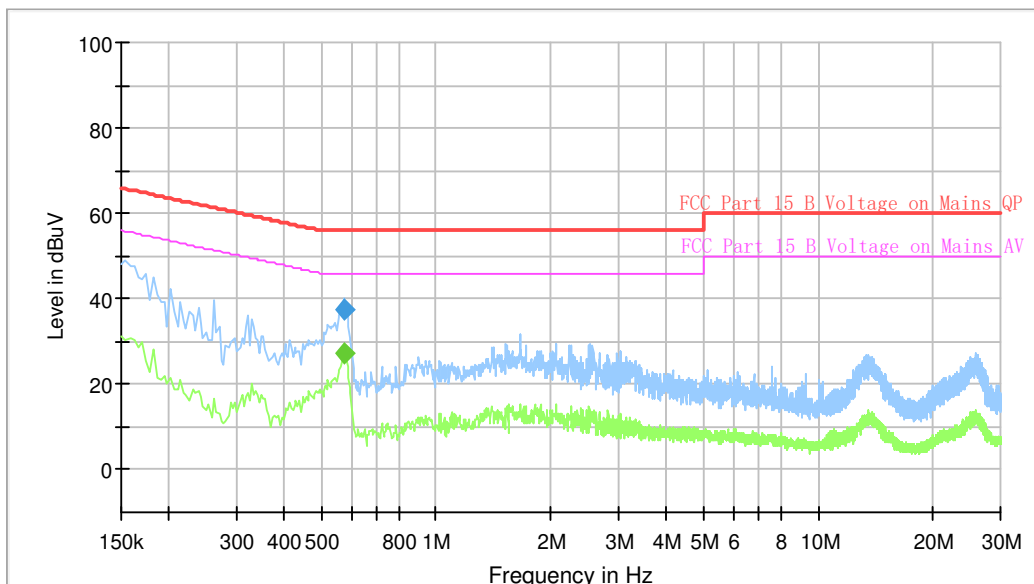
1. Corr. (dB) = LISN Factor (dB) + Cable Loss (dB)
2. Level (dBμV) = Corr. (dB) + Read Level (dBμV)
3. Margin (dB) = Limit (dBμV) - Level (dBμV)

TEST REPORT

Tested Wire: Neutral

Operation Mode: transmitting mode

Full Spectrum



Final Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Filter	Corr. (dB)
0.574000	---	27.41	46.00	18.59	1000.0	9.000	N	ON	9.6
0.574000	37.52	---	56.00	18.49	1000.0	9.000	N	ON	9.6

Remark:

1. Corr. (dB) = LISN Factor (dB) + Cable Loss (dB)
2. Level (dBuV) = Corr. (dB) + Read Level (dBuV)
3. Margin (dB) = Limit (dBuV) - Level (dBuV)

TEST REPORT

5.0 Test Equipment List

Radiated Emission/Radio					
Equipment No.	Equipment	Model	Manufacturer	Cal. Due date (YYYY-MM-DD)	Calibration Interval
EM030-04	3m Semi-Anechoic Chamber	9×6×6 m ³	ETS• LINDGREN	2026-04-08	1Y
EM031-02	EMI Test Receiver (9 kHz~7 GHz)	R&S ESR7	R&S	2026-11-05	1Y
EM031-03	Signal and Spectrum Analyzer (10 Hz~40 GHz)	R&S FSV40	R&S	2026-11-05	1Y
EM011-04	Loop antenna (9 kHz-30 MHz)	HFH2-Z2	R&S	2026-07-08	1Y
EM033-01	TRILOG Super Broadband test Antenna(30 MHz-3 GHz) (RX)	VULB 9163	SCHWARZBECK	2026-07-15	1Y
EM033-02	Bouble-Ridged Waveguide Horn Antenna (800 MHz-18 GHz)(RX)	R&S HF907	R&S	2026-07-07	1Y
EM033-03	High Frequency Antenna & preamplifier(18 GHz~26.5 GHz) (RX)	R&S SCU-26	R&S	2026-04-27	1Y
EM033-04	High Frequency Antenna & preamplifier (26 GHz~40 GHz)	R&S SCU-40	R&S	2026-04-27	1Y
EM031-02-01	Coaxial cable(9 kHz-1 GHz)	N/A	R&S	2026-04-09	1Y
EM033-02-02	Coaxial cable(1 GHz-18 GHz)	N/A	R&S	2026-04-09	1Y
EM033-04-02	Coaxial cable(18 GHz~40 GHz)	N/A	R&S	2026-04-26	1Y
EM031-01	Signal Generator (9 kHz~6 GHz)	SMB100A	R&S	2026-11-09	1Y
EM040-01	Band Reject/Notch Filter	WRHFV	Wainwright	N/A	1Y
EM040-02	Band Reject/Notch Filter	WRCGV	Wainwright	N/A	1Y
EM040-03	Band Reject/Notch Filter	WRCGV	Wainwright	N/A	1Y
EM022-03	2.45 GHz Filter	BRM50702	Micro-Tronics	2026-05-14	1Y
SA016-29	Climatic Test Chamber	MHU-80L	JIANQIAO	2027-01-04	1Y
EM046-05	Power Sensor	NPR6A	R&S	2026-04-13	1Y
EM046-06	Power Sensor	NPR6A	R&S	2026-05-14	1Y
EM031-04-01	EMC32	V10.01.00	R&S	N/A	N/A
EM045-01-10	10dB Attenuator	N/A	R&S	2026-12-17	1Y
EM046-06-01	Power Viewer	V11.0.5.11.2018	R&S	N/A	N/A
Conducted Disturbance-Mains Terminal(2)					
Equipment No.	Equipment	Model	Manufacturer	Cal. Due date (DD-MM-YYYY)	Calibration Interval
EM031-04	EMI receiver	ESR3	R&S	04/01/2027	1Y
EM006-06	LISN	ENV216	R&S	01/09/2026	1Y
SA047-111	Digital Temperature-Humidity Recorder	RS210	YIJIE	20/10/2026	1Y
EM004-03	EMC shield Room	8m×4m×3m	Zhongyu	04/01/2027	1Y
EM031-04-01	EMC32	V10.01.00	R&S	N/A	N/A

*****End of the test report*****