

MAXSafes Security LLC

TEST REPORT

SCOPE OF WORK

EMC TESTING—RD5N1

REPORT NUMBER

250512196GZU-001

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TEST REPORT

Applicant Name & : MAXSafes Security LLC
Address : 24 E Knight Ave, Collingswood, NJ 08108, Camden County, New
Jersey, United States
Manufacturing Site : Same as applicant
Intertek Report No: 250512196GZU-001
FCC ID: 2BRMY-VOD001

Test standards

CFR 47, FCC PART 15 Subpart C: 2024 section 15.231

Sample Description

Product : Dehumidifier 5IN1
Model No. : RD5N1
Electrical Rating : DC 6V, USB 5V
Serial No. : Not Labeled
Date Received : 12 May 2025
Date Test : 10 June 2025-16 June 2025
Conducted

Prepared and Checked By

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1.0 TEST RESULT SUMMARY

Test Item	Test Requirement	Test Method	Result
Radiated Emission	FCC PART 15 section 15.231 (e)	ANSI C 63.10: Clause 6.4, 6.5, 6.6, 7.4, 7.5 and 7.6	PASS
Occupied Bandwidth	FCC PART 15 section 15.231(c)	ANSI C 63.10: Clause 6.9	PASS
Dwell Time	FCC PART 15 section 15.231(e)	ANSI C 63.10: Clause 7.4	PASS
Conducted Emission	FCC PART 15 section 15.207	ANSI C 63.10: 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 EUT was tested with new battery.			

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2.0 General Description

2.1 Product Description

Operating Frequency	433.92 MHz
Type of Modulation:	ASK
Number of Channels	1 Channel
Channel Separation:	N/A
Antenna Type	Spring antenna
Power Supply:	DC 6V battery, USB 5V
Power cord:	N/A
Function:	Remote controller with 433.92 MHz as carrier.

2.2 Related Submittal(s) Grants

This is an application for certification of:
DSC-Part 15 Security/Remote Control Transmitter.

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

N/A

3.3 Special Accessories

No special accessories used.

3.4 Measurement Uncertainty

No.	Item	Measurement 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 MAXSafes Security LLC 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

The client made a continuous transmit sample for test, during normal use the product has duty cycle (Detailed information can refer to page 14).

This product was tested with corresponding support equipment as below:

Support Equipment

Description	Manufacturer	Model No.	SN/Version	Supplied by
Adapter	Apple	A1401	SN: C4H309303U7F	Intertek

Cable

Description	Model No.	Connector type	Cable length/type	Supplied by
USB cable	--	USB A to USB C	0.8 m(unshielded)	Intertek

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4.0 Measurement Results

4.1 Antenna Requirement

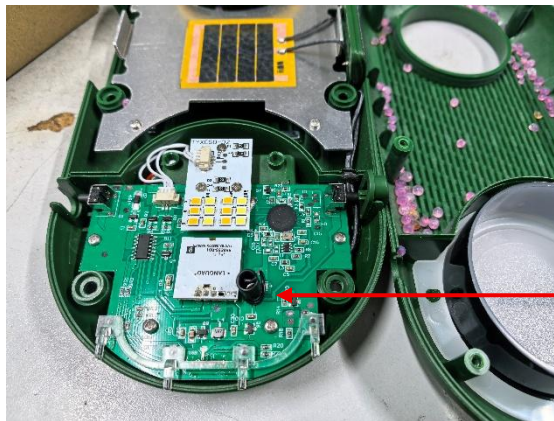
Standard requirement:

15.203 requirement:

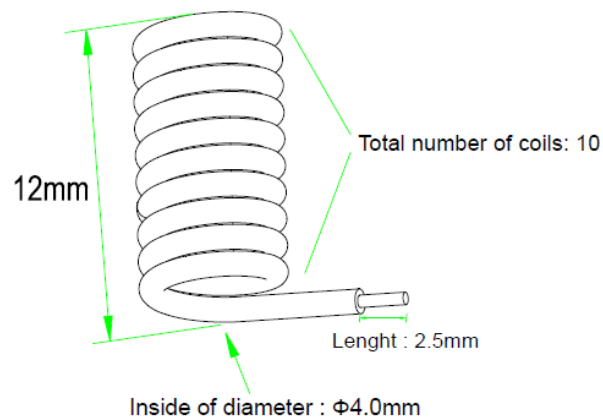
For intentional device. According to 15.203, an intentional radiator shall be designed to Ensure that no antenna other than that furnished by the responsible party shall be used with the device.

EUT Antenna

The antenna is an integral antenna and no consideration of replacement.



Antenna dimension design



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4.2 Radiated Emissions

Test Requirement:	FCC Part 15 C section 15.231(e)
Test Method:	ANSI C63.10: Clause 6.4, 6.5, 6.6, 7.4, 7.5 and 7.6
Measurement Distance:	3 m (Semi-Anechoic Chamber)
Test Status:	Test the transmitter in continuous transmitting mode.
Test site:	Measurement Distance: 3m (Semi-Anechoic Chamber)
Limit:	The field strength of emissions from intentional radiators operated under this Section shall not exceed the following:

Fundamental Frequency MHz	Field Strength of Fundamental (dBμV/m @ 3 m)	Field Strength of Harmonics and Spurious Emissions (dBμV/m @ 3 m)
40.66 to 40.70	60.00	40.00
70 to 130	53.98	33.98
130 to 174	53.98 to 63.52**	33.98 to 43.52**
174 to 260	63.52	43.52
260 to 470	63.52 to 73.98**	43.52 to 53.98**
Above 470	73.98	53.98

** linear interpolations

The fundamental frequency of the EUT is 433.92 MHz

The limit for average or QP field strength dBuV/m for the fundamental emission= 72.8 dBμV/m

No fundamental is allowed in the restricted bands.

The limit for average field strength dBuV/m for the spurious emission=52.8 dBuV/m.

Spurious Emissions do not fall in the restricted bands must be less than 52.8 dBuV/m or limits shown in Section 15.209, whichever limit permits a higher field strength.

Spurious Emissions appear within the restricted bands shall not exceed the limits shown in Section 15.209.

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 (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

Where:

RA = Receiver Amplitude (including preamplifier) in dBμV
 AF = Antenna Factor in dB/m
 CF = Cable Attenuation Factor in dB
 AG = Amplifier Gain in dB

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PD = Pulse Desensitization in dB
AV = Average Factor in -dB
Correct Factor = AF + CF - AG + PD

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 dB μ V is obtained. The antenna factor of 7.4 dB/m 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 dB μ V/m.

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

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

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

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

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

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

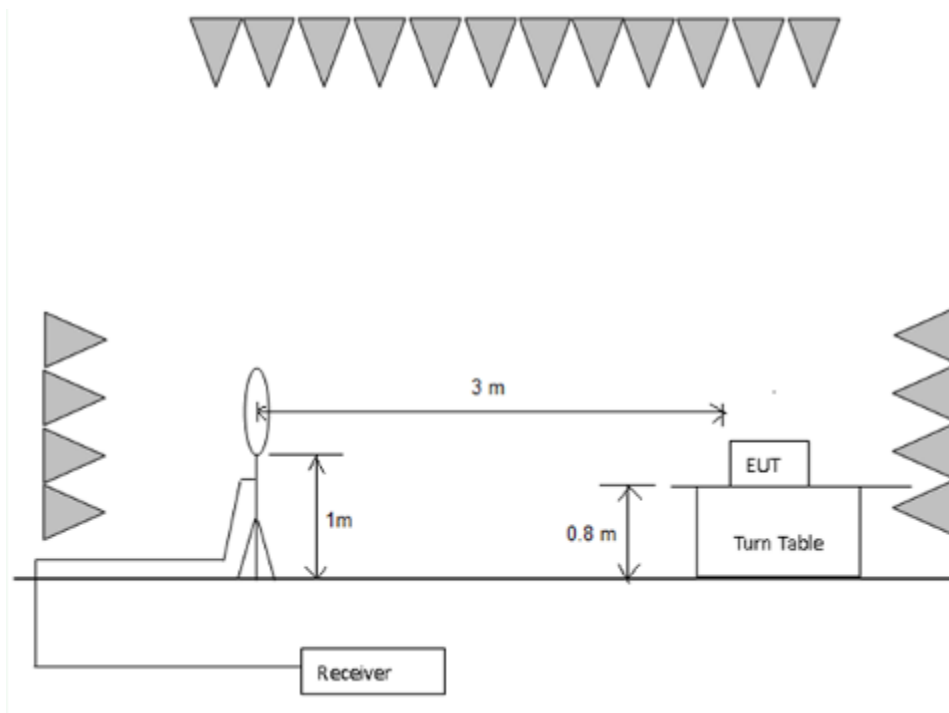
$$\text{Correct Factor} = 7.4 + 1.6 - 29.0 + 0 = -20 \text{ dB/m}$$

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

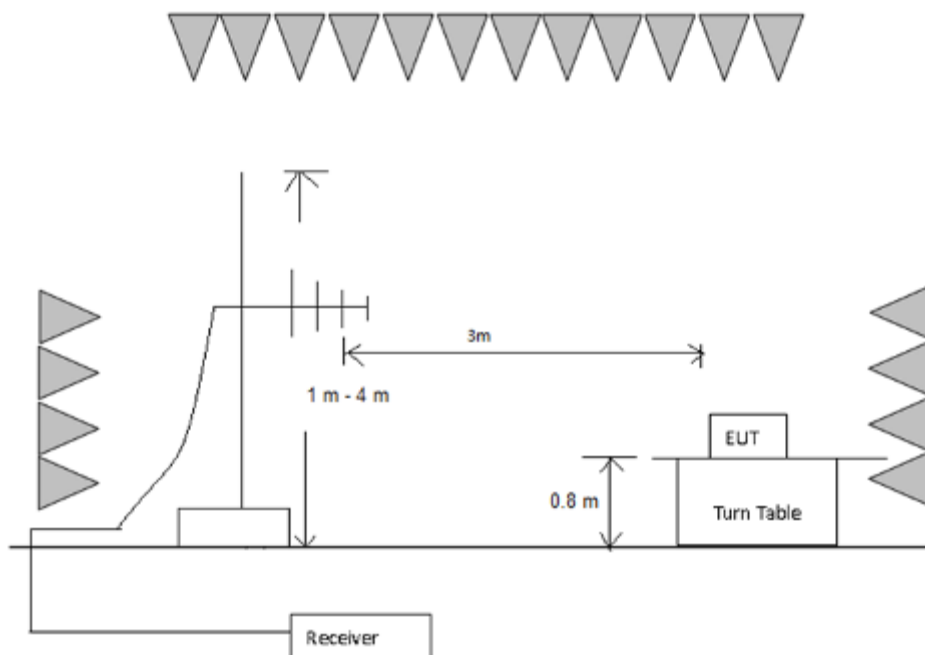
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Test Configuration:

- 1) 9 kHz to 30 MHz emissions:

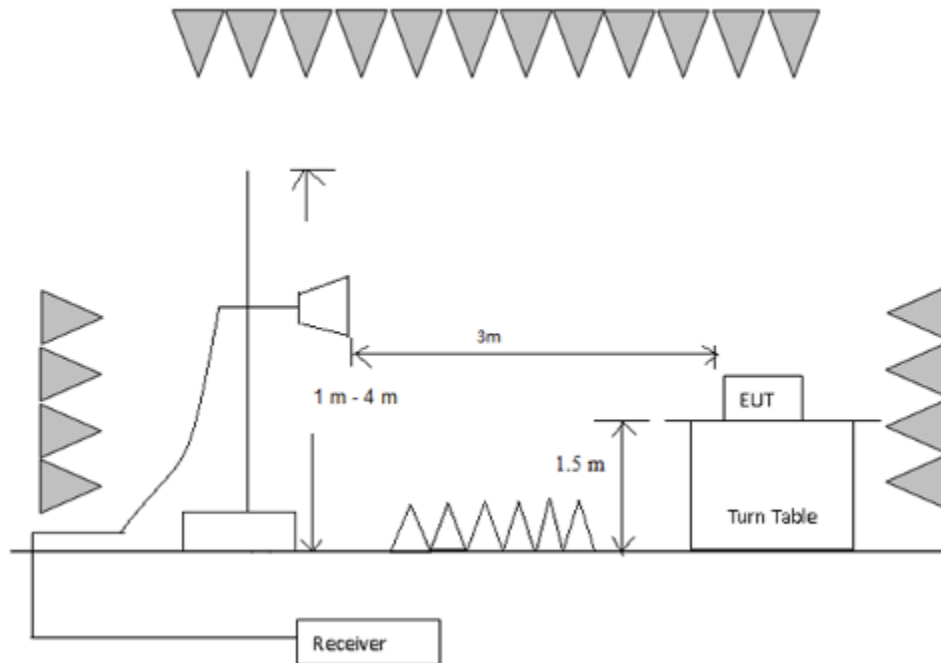


- 2) 30 MHz to 1 GHz emissions:



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3) 1 GHz to 40 GHz emissions:



Test Procedure:

1) 9 kHz to 30 MHz emissions:

For testing performed with the loop antenna. The lowest of the loop was positioned 1 m above the ground and positioned with its plane vertical at the special 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 bi-log type 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) 1 GHz to 40 GHz emissions:

Test site with RF absorbing material covering the ground plane that met the site validation criterion called out in CISPR 16-1-4:2010 was used to perform radiated emission test above 1 GHz.

For testing performed with the horn 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.

Detector:

For Peak and Quasi-Peak value:

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RBW = 1 MHz for $f \geq 1$ GHz,
200 Hz for 9 kHz to 150 kHz
9 kHz for 150 kHz to 30 MHz
120 kHz for 30 MHz to 1GHz
VBW $\geq$ RBW
Sweep = auto
Detector function = peak for $f \geq 1$ GHz, QP for $f < 1$ GHz
Trace = max hold
For AV value:
Average = Peak value + 20log (Duty cycle)

The average correction factor is computed by analyzing the on time in 100ms over one complete pulse train. Analysis of the remote transmitter on time in one complete pulse train, therefore the average value of fundamental frequency is: Average = Peak value + 20log (Duty cycle), where the duty factor is calculated from following formula:

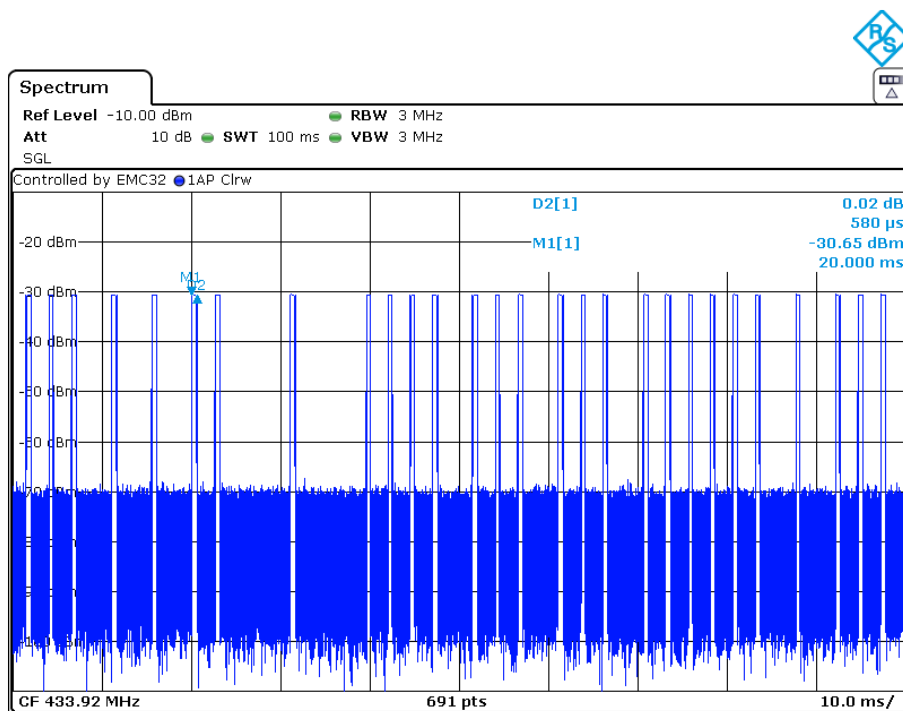
The duration of one cycle = 100ms

Effective period of the cycle = (0.58×29) ms = 16.82 ms

DC = $16.82/100 = 16.82\%$

Therefore, the averaging factor is found by $20\lg 0.1682 = -15.5$

Please refer to below plots for more details.



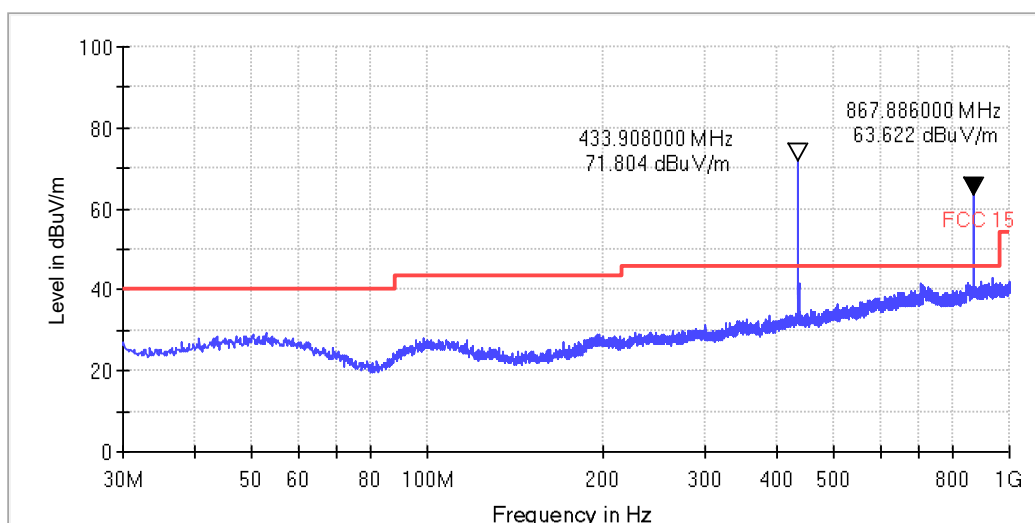
TEST REPORT

Used Test Equipment List:

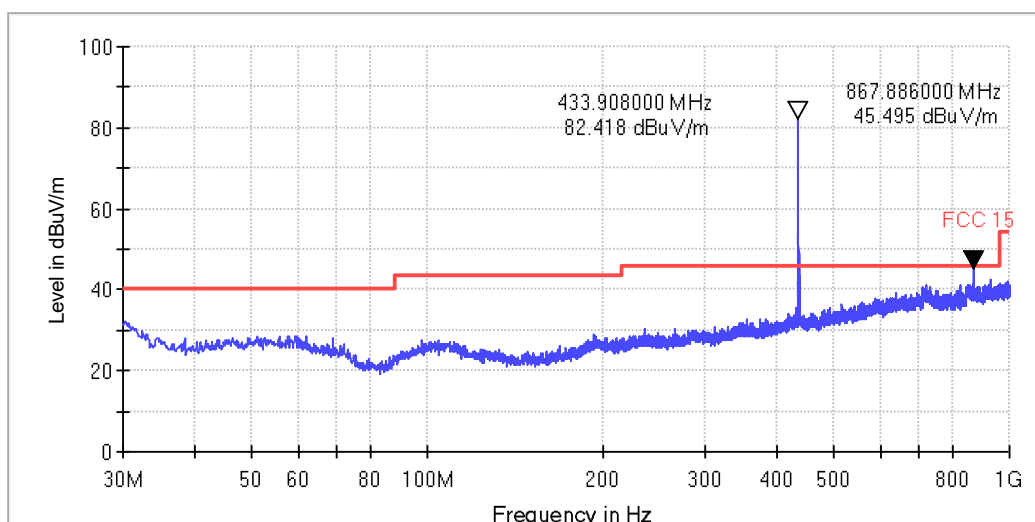
3m Semi-Anechoic Chamber, EMI Test Receiver (9 kHz~7 GHz), Signal and Spectrum Analyzer (10 Hz~40 GHz), Loop antenna (9 kHz-30 MHz), TRILOG Super Broadband test Antenna(30 MHz-3 GHz) (RX), Bouble-Ridged Waveguide Horn Antenna (800 MHz-18 GHz)(RX). Refer to Clause 5 Test Equipment List for details.

1) Fundamental emission:

Horizontal



Vertical



Polarization	Frequency (MHz)	PK Reading (dBuV)	Correction Factor(dB)	PK value (dBuV/m)	PK limit (dBuV/m)	Margin (dB)
Horizontal	433.91	49.5	22.3	71.8	92.8	21.0

TEST REPORT

Vertical	433.91	60.1	22.3	82.4	92.8	10.4
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Polarization	Frequency (MHz)	PK value (dBuV/m)	Average Factor(dB)	AV value (dBuV/m)	AV limit (dBuV/m)	Margin (dB)
Horizontal	433.91	71.8	-15.5	56.3	72.8	16.5
Vertical	433.91	82.4	-15.5	66.9	72.8	5.9

X: EUT as Radiated Emission test setup photograph.

Y: rotate EUT by 90° clockwise.

Z: rotate EUT by 90° vertically.

2) Other emissions:

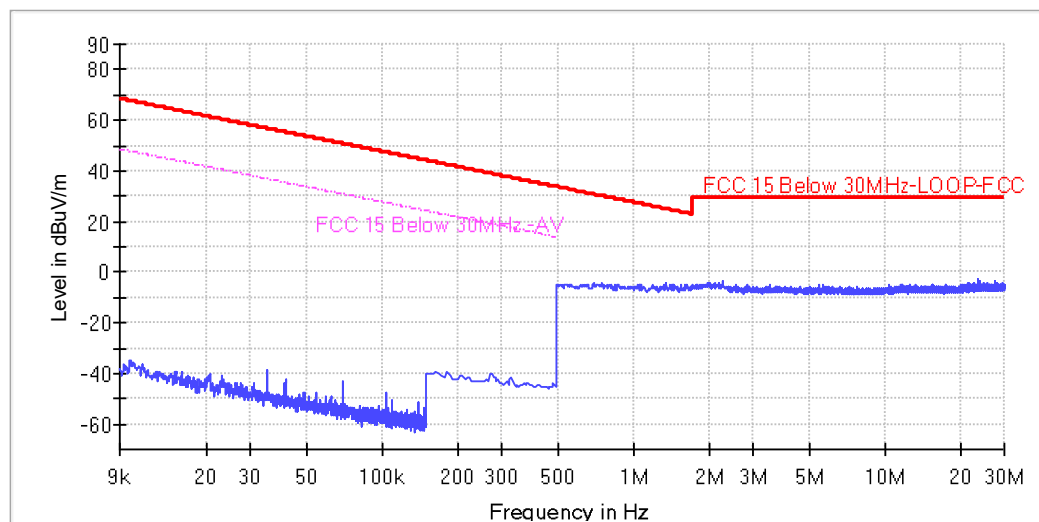
The following test results were performed on the EUT.

Since the peak emission level is lower than the average limit, the average emission level does not need to show.

Test the EUT in transmitting mode:

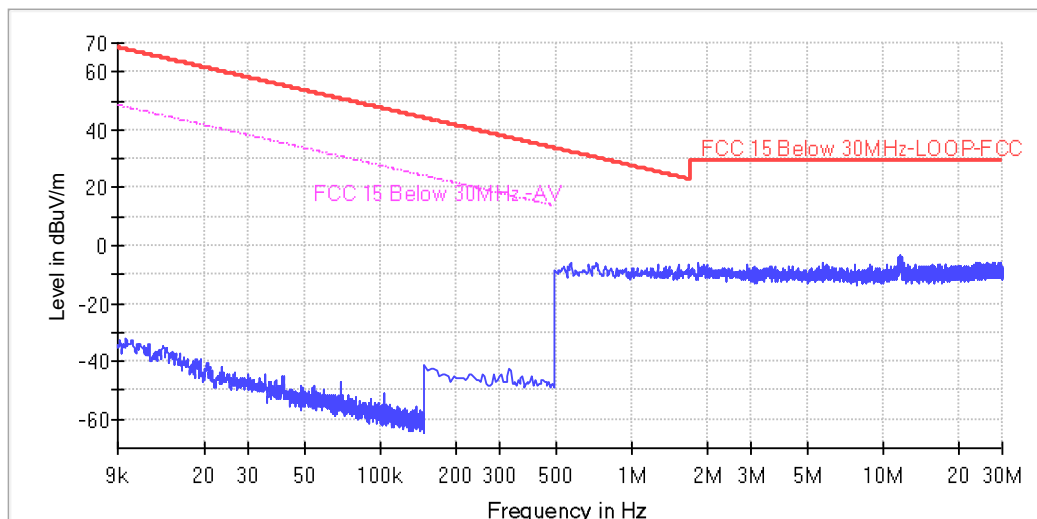
9 kHz~30 MHz Field Strength of Unwanted Emissions. Peak or Quasi-Peak measurement:

Horizontal



Vertical

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The measurements with active loop antenna were greater than 20dB below the limit.

The Field Strength of limits from 9 to 490 kHz is $2400/F$ microvolts/meter @300m(F in kHz). The calculation formula is $\text{Limit@300m} = 20 \log_{10}(2400/F)$

Converted limit from 9 to 490 kHz is from 48.5 dBuV/m@300m to 13.8 dBuV/m@300m

The emission limits for the ranges 9-90 kHz and 110-490 kHz are based on measurements employing a linear average detector.

At frequencies below 30 MHz, measurements were performed at 3m and the data was extrapolated to the specified measurement distance using the square of an inverse linear distance extrapolation factor (40 dB/decade) as specified in §15.31(f)(2).

Emission Level (dBμV/m) @spec= Emission Level (dBμV/m) @3m- Distance Extrapolation Factor [dB]

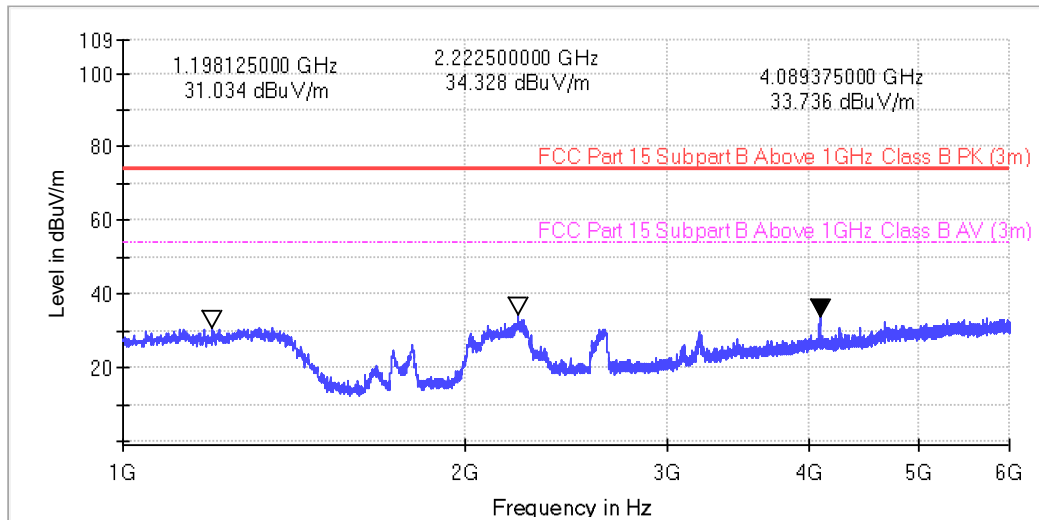
Distance Extrapolation Factor [dB] = $20 \log_{10}(300/3)^2 = 80\text{dB}$ [For emissions within 9kHz-490kHz]

Distance Extrapolation Factor[dB] = $20 \log_{10}(30/3)^2 = 40\text{dB}$ [For emissions within 490kHz-30MHz]

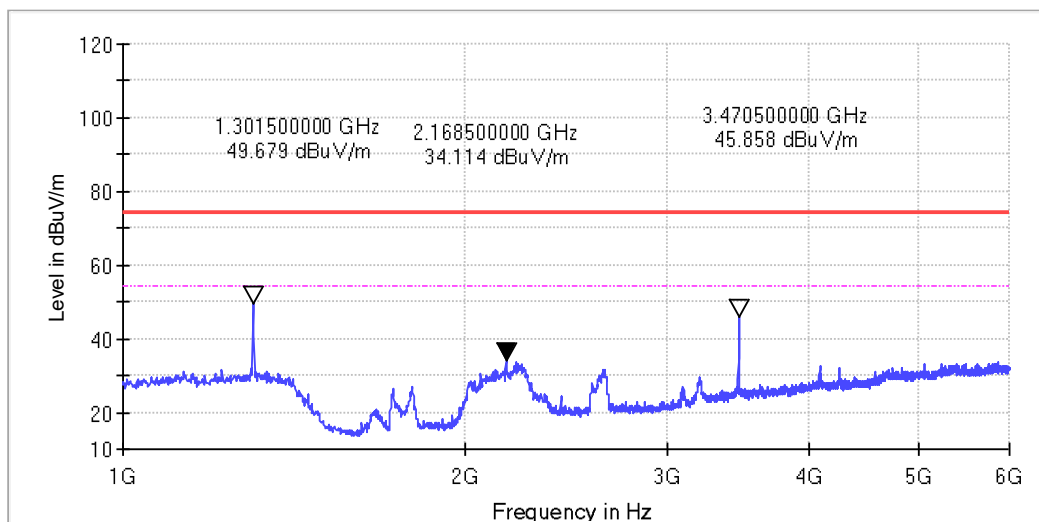
When Peak emission level was below AV or QP limit, the AV and QP emission level was not Recorded.

30 MHz~5 GHz Field Strength of Unwanted Emissions. Peak or Quasi-Peak measurement:
Horizontal

TEST REPORT



Vertical



Polarization	Frequency	PK Reading	Correction	PK value	PK limit	Margin
	(MHz)	(dBuV)	Factor(dB)	(dBuV/m)	(dBuV/m)	(dB)
Horizontal	867.9	32.9	30.7	63.6	74	10.4
Vertical	867.9	14.8	30.7	45.5	74	28.5
Horizontal	1198.1	44.4	-13.4	31.0	74.0	43.0
Horizontal	2222.5	42.6	-8.3	34.3	74.0	39.7
Horizontal	4089.4	35.7	-2.0	33.7	74.0	40.3
Vertical	1301.5	62.5	-12.8	49.7	74.0	24.3
Vertical	2168.5	42.6	-8.5	34.1	74.0	39.9
Vertical	3470.5	49.5	-3.6	45.9	74.0	28.1

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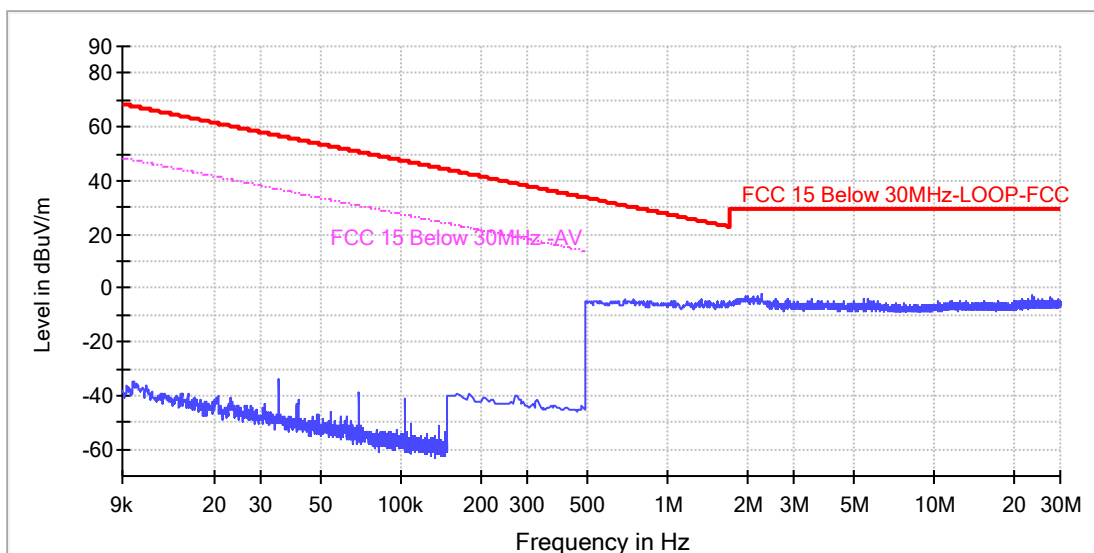
Polarization	Frequency	PK value	Average	AV value	AV limit	Margin
	(MHz)	(dBuV/m)	Factor(dB)	(dBuV/m)	(dBuV/m)	(dB)
Horizontal	867.9	63.6	-15.5	48.1	54.0	5.9
Vertical	867.9	45.5	-15.5	30.0	54.0	24.0

Remark: When Peak emission level was below AV limit, the AV emission level did not be recorded.

433.92MHz & 5.8G radar wave transmit simultaneously, the worst case is recorded as follow

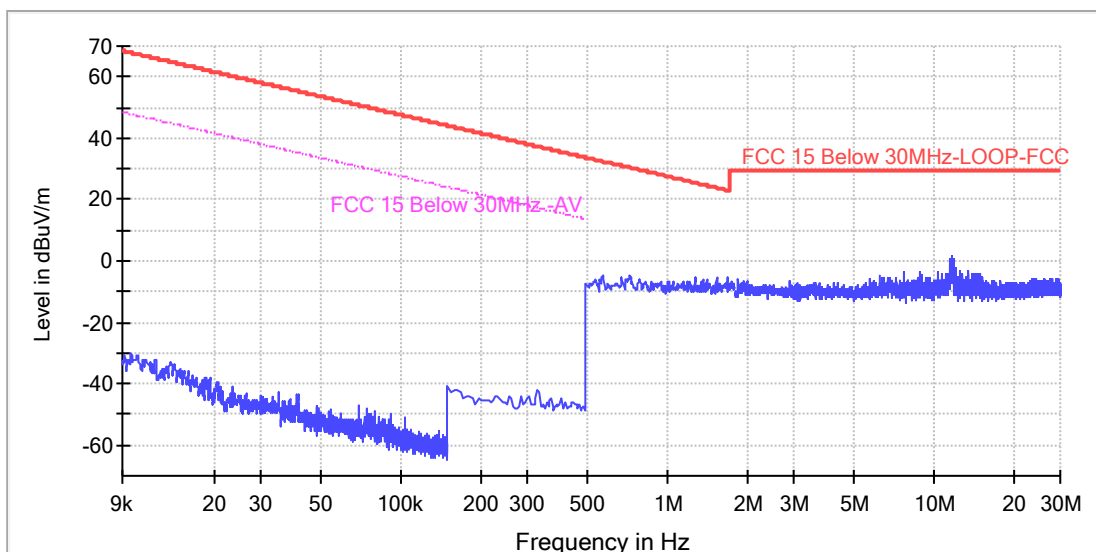
9 kHz~30 MHz Field Strength of Unwanted Emissions. Quasi-Peak Measurement

Horiozntal



TEST REPORT

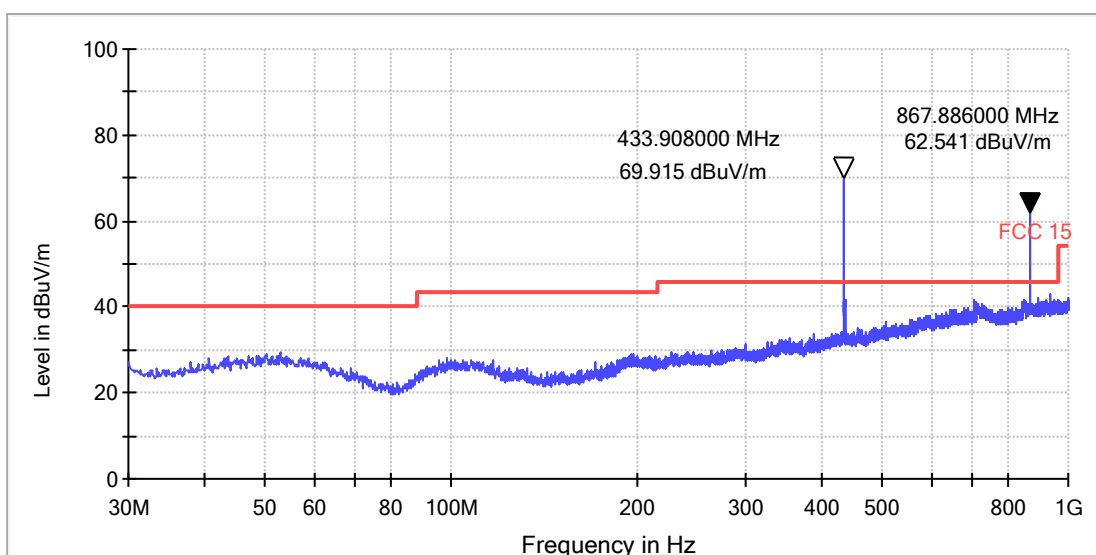
Vertical



The measurements with active loop antenna were greater than 20dB below the limit, so the test data were not recorded in the test report.

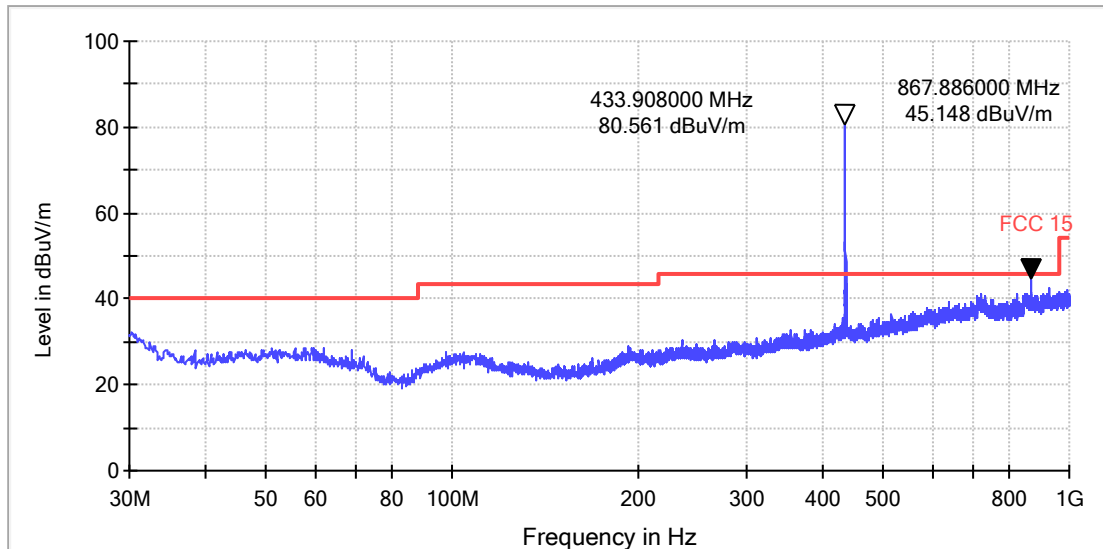
30 MHz~1 GHz Spurious Emissions. Quasi-Peak Measurement

Horizontal



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Vertical



Polarization	Frequency	PK Reading	Correction	PK value	PK limit	Margin
	(MHz)	(dBuV)	Factor(dB)	(dBuV/m)	(dBuV/m)	(dB)
Horizontal	867.9	31.8	30.7	62.5	74	11.5
Vertical	867.9	14.4	30.7	45.1	74	28.9

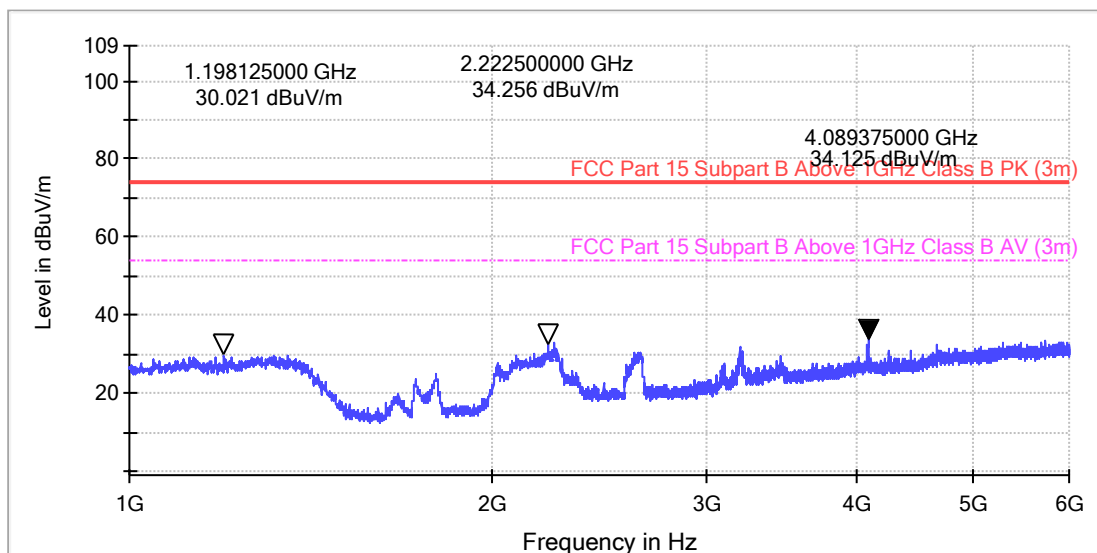
Polarization	Frequency	PK value	Average	AV value	AV limit	Margin
	(MHz)	(dBuV/m)	Factor(dB)	(dBuV/m)	(dBuV/m)	(dB)
Horizontal	867.9	62.5	-15.5	47.0	54.0	7
Vertical	867.9	45.1	-15.5	29.6	54.0	24.4

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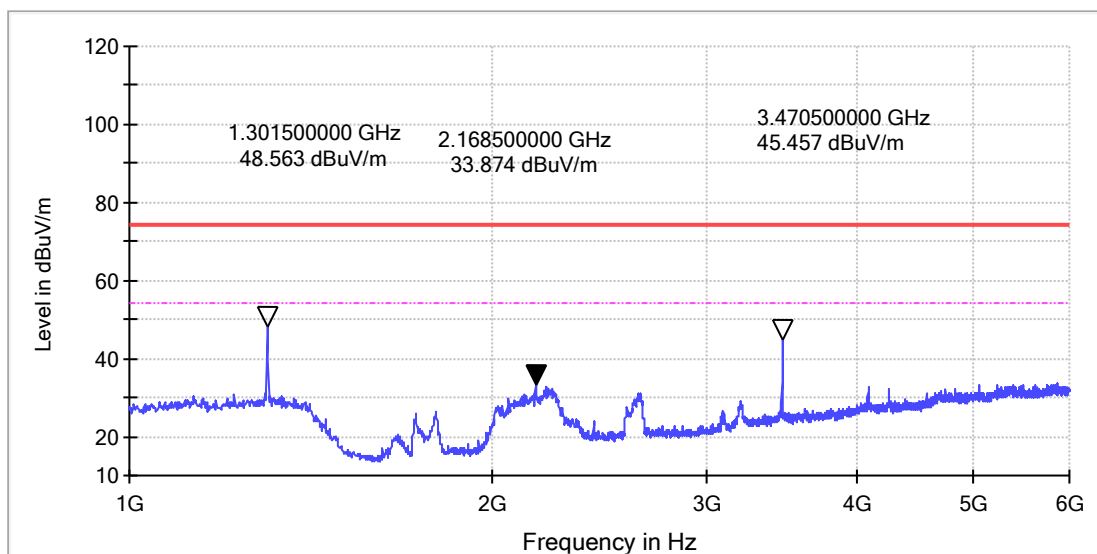
1GHz-26.5GHz Radiated Emissions

1-6GHz

Horizontal



Vertical



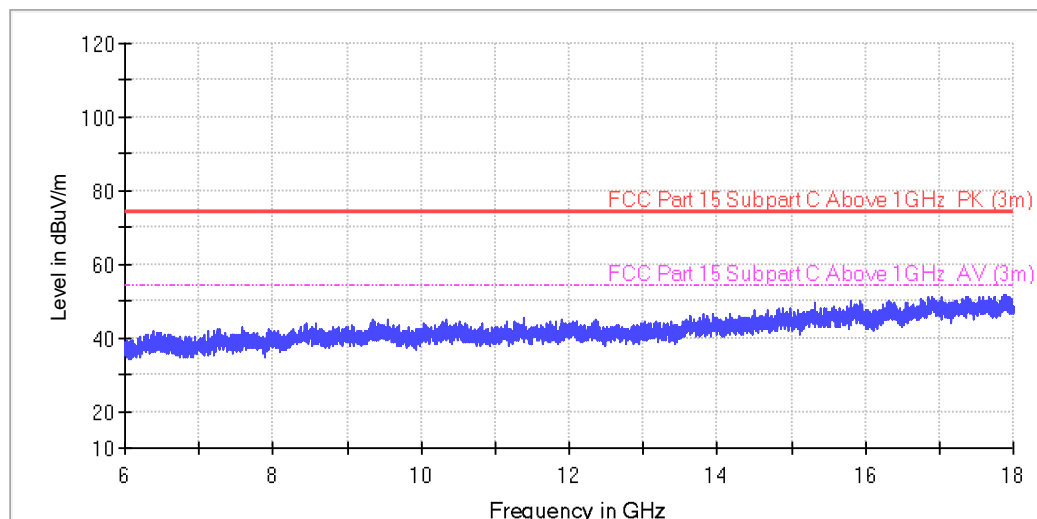
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Polarization	Frequency	PK Reading	Correction	PK value	PK limit	Margin
	(MHz)	(dBuV)	Factor(dB)	(dBuV/m)	(dBuV/m)	(dB)
Horizontal	1198.1	43.4	-13.4	30.0	74.0	44.0
Horizontal	2222.5	42.6	-8.3	34.3	74.0	39.7
Horizontal	4089.4	36.1	-2.0	34.1	74.0	39.9
Vertical	1301.5	61.4	-12.8	48.6	74.0	25.4
Vertical	2168.5	42.4	-8.5	33.9	74.0	40.1
Vertical	3470.5	49.1	-3.6	45.5	74.0	28.5

Remark: When Peak emission level was below AV limit, the AV emission level did not be recorded.

6-18GHz

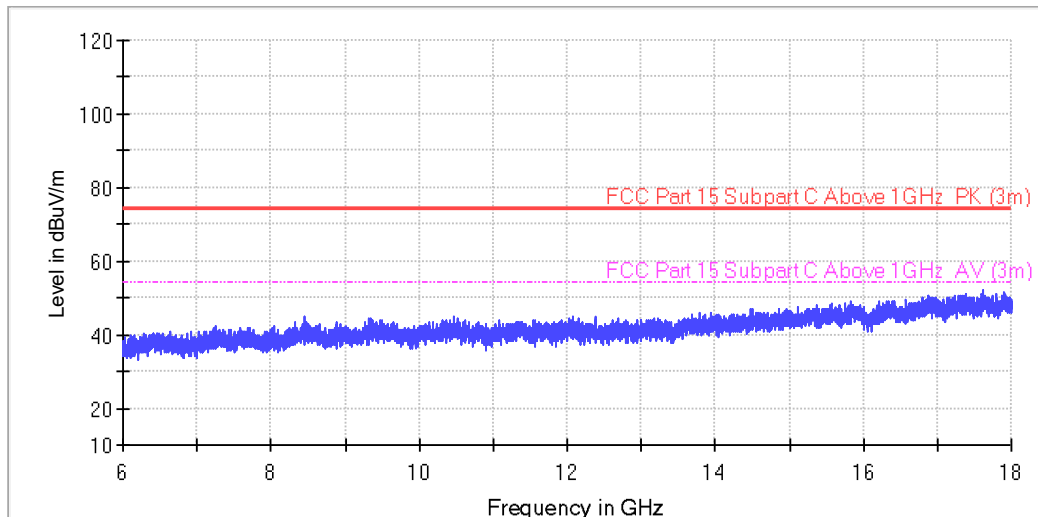
Horizontal



Remark: All emissions were lower than the limit value, so the test data were not recorded in the test report.

TEST REPORT

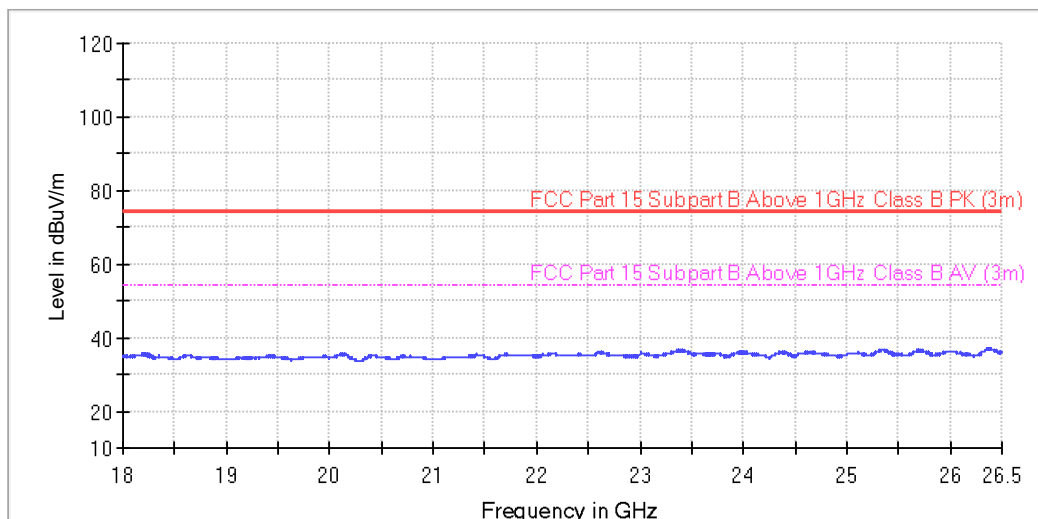
Vertical



Remark: All emissions were lower than the limit value, so the test data were not recorded in the test report.

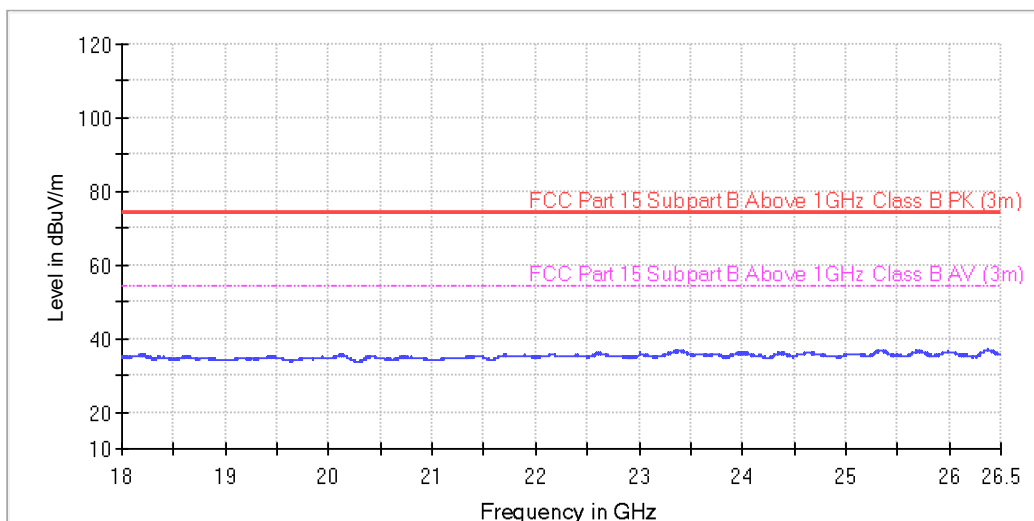
18-26.5GHz

Horizontal



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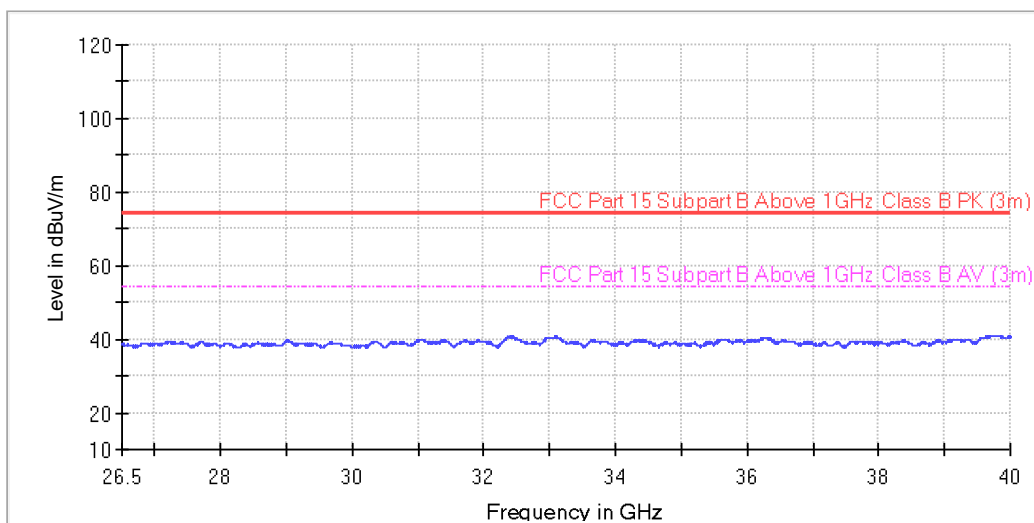
Vertical



The ambient noise floor 18-26.5 GHz was measured in peak detector mode with RBW = 1 MHz, VBW = 10 Hz. The measured noise floor maintains a margin of at least 6 dB below the applicable average limit

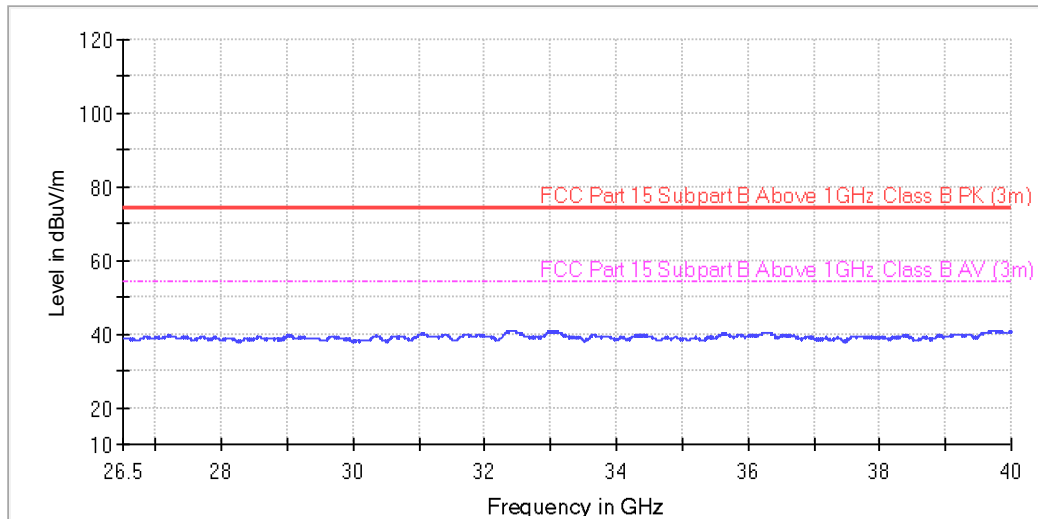
26.5-40GHz

Horizontal



TEST REPORT

Vertical



The ambient noise floor 26.5-40 GHz was measured in peak detector mode with RBW = 1 MHz, VBW = 10 Hz. The measured noise floor maintains a margin of at least 6 dB below the applicable average limit.

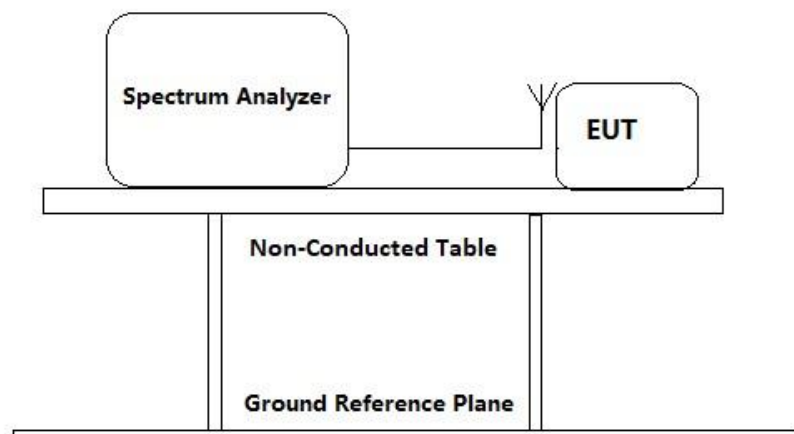
TEST REPORT

4.3 Occupied Bandwidth

Test Requirement: FCC Part 15 C section 15.231 (c)

Test Method: ANSI C63.10: Clause 6.9

Test Configuration:



Test Status: Test in transmitting mode at lowest and highest channel.

Requirements: 15.231 (c) The bandwidth of the emission shall be no wider than 0.25% of the center frequency for devices operating above 70 MHz and below 900 MHz. For devices operating above 900 MHz, the emission shall be no wider than 0.5% of the center frequency. Bandwidth is determined at the points 20 dB down from the modulated carrier.

Method of measurement: The useful radiated emission from the EUT was detected by the spectrum analyzer with peak detector. Record the 20 dB bandwidth of the carrier.

Used Test Equipment List:

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

Test result:

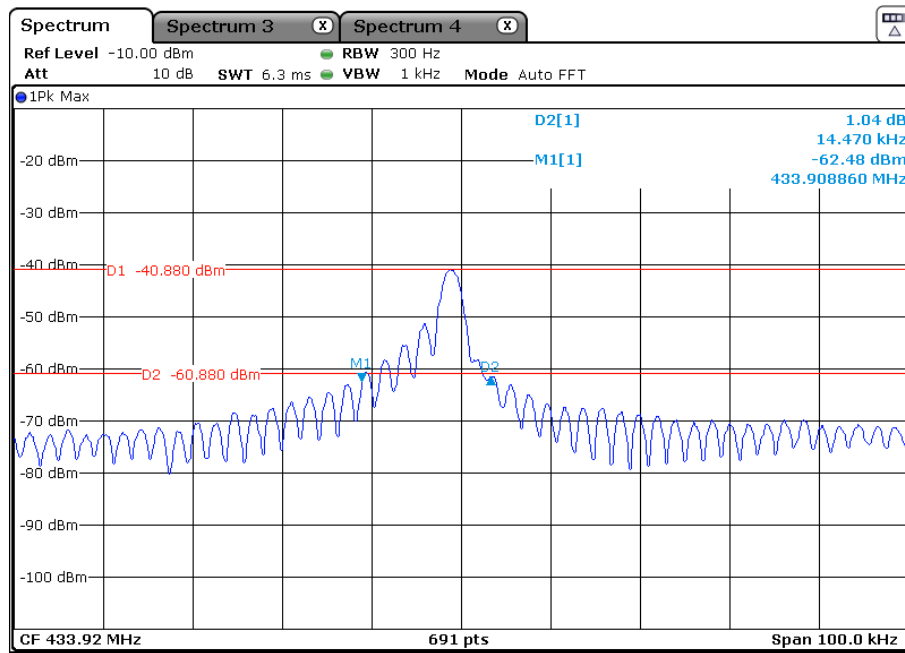
Test Channel	bandwidth	Limit
433.92 MHz	14.5 kHz	1.08 MHz

Remark:

The bandwidth limit is $433.92 \times 0.0025 = 1.08$ MHz

Test plot:

TEST REPORT



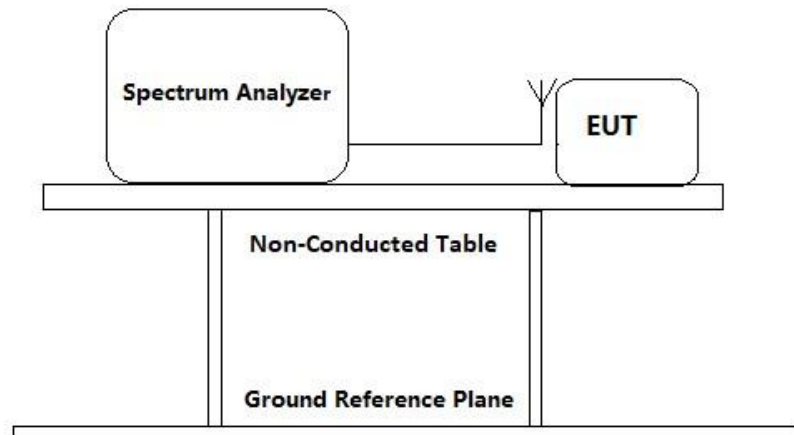
TEST REPORT

4.4 Dwell Time

Test Requirement: FCC Part 15 C section 15.231(e)

Test Method: ANSI C 63.10: Clause 7.4

Test Configuration:



Test Status: Test in transmitting mode.

Requirements:

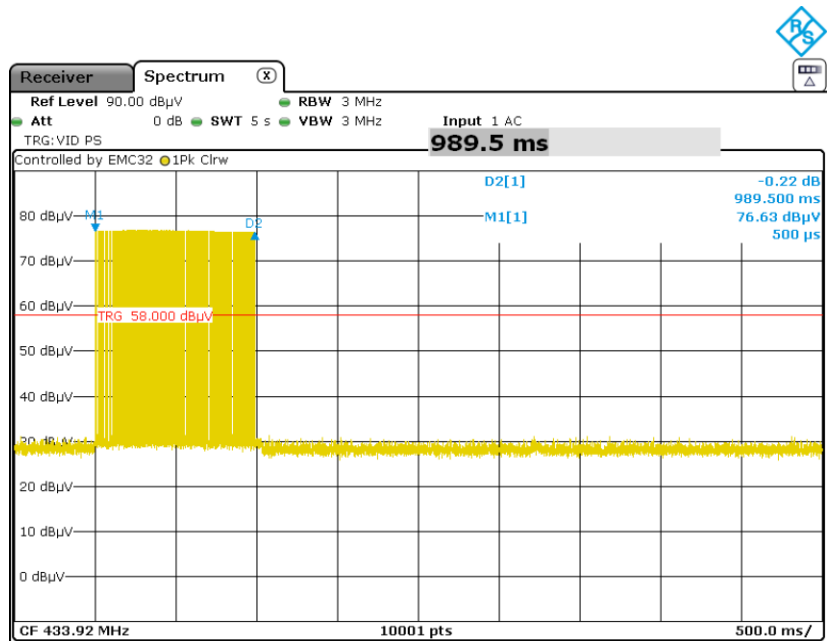
Regulation 15.231 (e) Intentional radiators may operate at a periodic rate exceeding that specified in 15.231 (a) and may be employed for any type of operation, including operation prohibited in 15.231 (a). In addition, devices operated under the provisions of this section shall be provided with a means for automatically limiting operation so that the duration of each transmission shall not be greater than one second and the silent period between transmissions shall be at least 30 times the duration of the transmission but in no case less than 10 seconds.

Result:

The EUT meets the requirements of this section.

Carrier Frequency	Dwell time	Limit
433.92MHz	0.9895s	≤1s

TEST REPORT



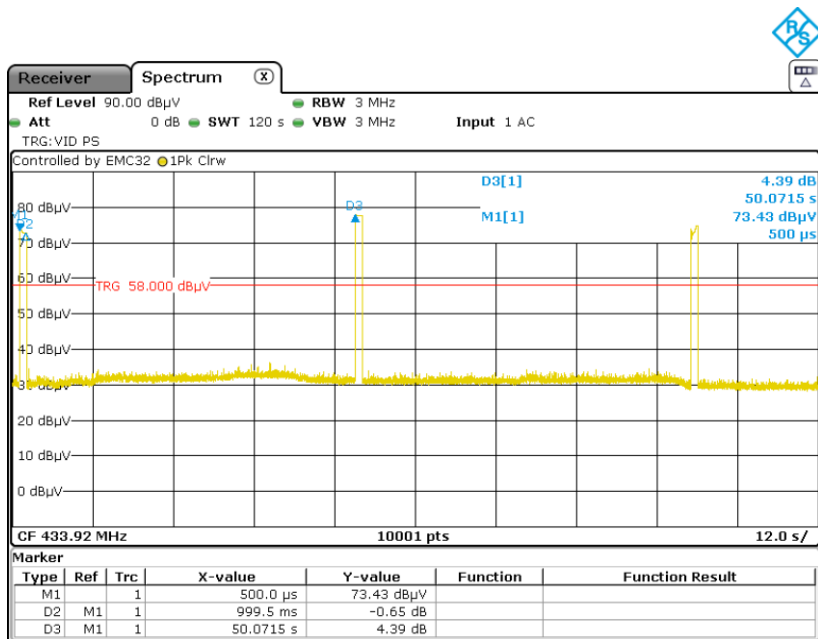
TEST REPORT

30 times the duration of the transmission: $30 \times 0.9895\text{s} = 29.685\text{s} < 49.072\text{s}$ pass

Since the duration is 11.015s, so off time is: $50.0715 - 0.9995 = 49.072\text{s} > 10\text{s}$

Carrier Frequency	Off time	Limit
433.92MHz	49.072S	$\geq 10\text{s}$

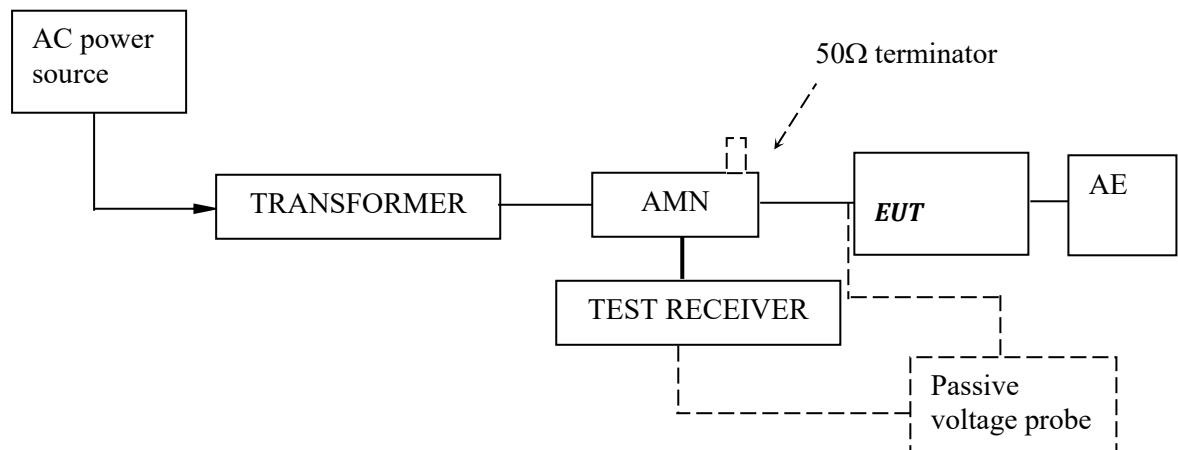
Result plot as follows:



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 0.1m 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

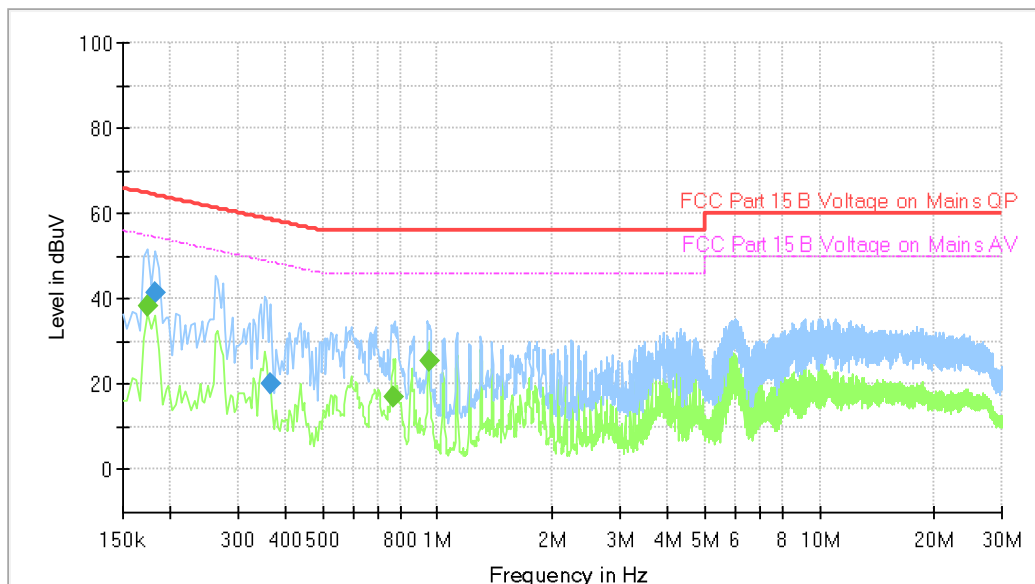
Test Data and Curve

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)
0.174000	---	38.17	54.77	16.59	1000.0	9.000	L1	ON	9.6
0.182000	41.61	---	64.39	22.78	1000.0	9.000	L1	ON	9.6
0.366000	20.22	---	58.59	38.37	1000.0	9.000	L1	ON	9.6
0.766000	---	17.05	46.00	28.95	1000.0	9.000	L1	ON	9.6
0.946000	---	25.58	46.00	20.42	1000.0	9.000	L1	ON	9.6

Remark:

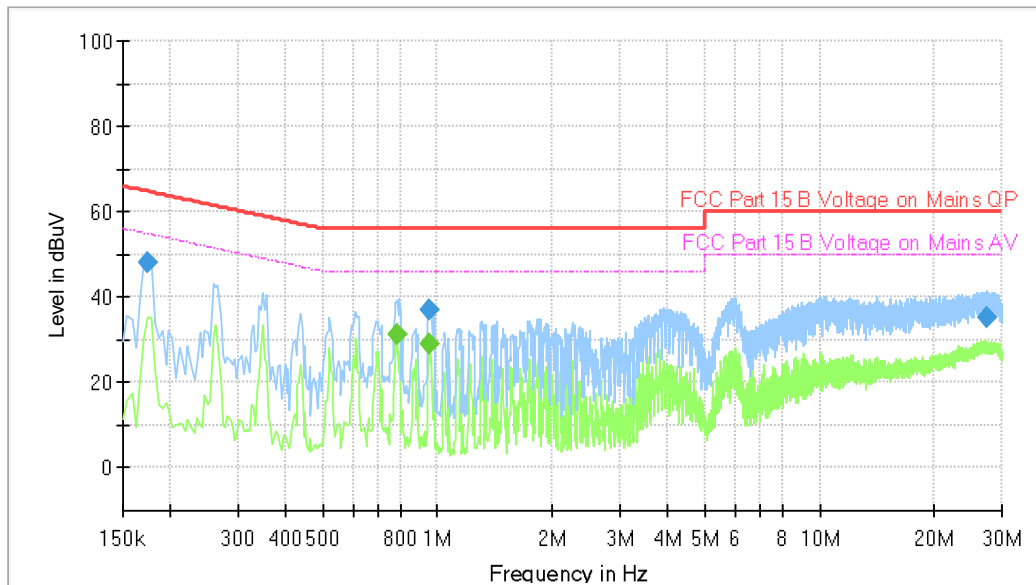
1. Corr. (dB) = LISN Factor (dB) + Cable Loss (dB)
2. Level (dBμV) = Corr. (dB) + Read Level (dBμV)
3. Delta Limit (dB) = Limit (dBμV)-Level (dBμV)

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)
0.174000	48.22	---	64.77	16.54	1000.0	9.000	N	ON	9.6
0.782000	---	31.04	46.00	14.96	1000.0	9.000	N	ON	9.6
0.950000	---	28.90	46.00	17.10	1000.0	9.000	N	ON	9.6
0.950000	36.92	---	56.00	19.08	1000.0	9.000	N	ON	9.6
27.354000	35.22	---	60.00	24.78	1000.0	9.000	N	ON	10.4

Remark:

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

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•LINDGRE N	2027-04-08	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	2027-07-08	1Y
EM061-11	TRILOG Super Broadband test Antenna(30 MHz-3 GHz) (RX)	VULB 9163	SCHWARZBECK	2027-11-24	1Y
EM033-02	Bouble-Ridged Waveguide Horn Antenna (800 MHz-18 GHz)(RX)	R&S HF907	R&S	2027-07-09	1Y
EM033-03	High Frequency Antenna & preamplifier(18 GHz~26.5 GHz) (RX)	R&S SCU-26	R&S	2027-04-28	1Y
EM033-04	High Frequency Antenna & preamplifier (26 GHz-40 GHz)	R&S SCU-40	R&S	2027-04-28	1Y
EM031-02-01	Coaxial cable(9 kHz-1 GHz)	N/A	R&S	2027-04-08	1Y
EM033-02-02	Coaxial cable(1 GHz-18 GHz)	N/A	R&S	2027-04-08	1Y
EM033-04-02	Coaxial cable(18 GHz~40 GHz)	N/A	R&S	2027-04-28	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	2027-05-13	1Y
SA016-29	Climatic Test Chamber	MHU-80L	JIANQIAO	2027-01-04	1Y
EM046-05	Power Sensor	NPR6A	R&S	2027-04-08	1Y
EM046-06	Power Sensor	NPR6A	R&S	2027-05-12	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	Calibration
				(DD-MM-YYYY)	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*****