RF Test Report

Applicant	:	Micro-Star Int'l Co., Ltd.
Product Name	:	NFC Module
Trade Name	:	MSI
Model Number	:	PN7150
Applicable Standard	:	FCC 47 CFR PART 15 SUBPART C ANSI C63.10:2013
Received Date	:	May 15, 2023
Test Period	:	May 23 ~ May 25, 2023
Issued Date	:	Jun. 08, 2023

Issued by

Eurofins E&E Wireless Taiwan Co., Ltd.
No. 140-1, Changan Street, Bade District,
Taoyuan City 334025, Taiwan (R.O.C.)
Tel：+886-3-2710188 / Fax：+886-3-2710190

Taiwan Accreditation Foundation accreditation number: 1330
Frequency Range: 9 kHz to 325 GHz (Bade test site)
Test Firm MRA designation number: TW0010
Frequency Range: 9 kHz to 40 GHz (Wugu test site)
Test Firm MRA designation number: TW0034

Note:

1.The test results are valid only for samples provided by customers and under the test conditions described in this report.
2.This report shall not be reproduced except in full, without the written approval of Eurofins E&E Wireless Taiwan Co., Ltd.
3.The relevant information is provided by customers in this test report. According to the correctness, appropriateness or completeness of the information provided by the customer, if there is any doubt or error in the information which affects the validity of the test results, the laboratory does not take the responsibility.

Revision History

Version	Issued Date	Revisions	Revised By
00	Jun. 08, 2023	Initial Issue	Rowan Hsieh

Verification of Compliance

Applicant	:	Micro-Star Int'l Co., Ltd.
Product Name	:	NFC Module
Trade Name	:	MSI
Model Number	:	PN7150
FCC ID	:	I4LXP01N
Applicable Standard	:	FCC 47 CFR PART 15 SUBPART C ANSI C63.10:2013
Test Result	:	Complied
Performing Lab.	:	Eurofins E&E Wireless Taiwan Co., Ltd. No. 140-1, Changan Street, Bade District, Taoyuan City 334025, Taiwan (R.O.C.) Tel：+886-3-2710188 / Fax：+886-3-2710190 Taiwan Accreditation Foundation accreditation number: 1330

Testing Laboratory 1330

Eurofins E&E Wireless Taiwan Co., Ltd. tested the above equipment in accordance with the requirements set forth in the above standards. All indications of Pass/Fail in this report are opinions expressed by Eurofins E&E Wireless Taiwan Co., Ltd. based on interpretations and/or observations of test results. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.

Approved By : Kai Yu Yang

TABLE OF CONTENTS

1 General Information

1.1. Summary of Test Result

Standard	Item	Results	Remark
15.203	Antenna Requirement	Meet Require	---
15.207(a)	Conducted Emissions Voltage	PASS	---
15.225 (a), (b), (c), (d) 15.209	Radiated Emission Limits	PASS	---
15.225(e)	Frequency Stability	PASS	---
15.215(c)	20 dB Bandwidth	-----	---
CFR 47 Part 15.225 / ANSI C63.10:2013			

Standard	Description
CFR47, Part 15, Subpart C	Intentional Radiators
ANSI C63. 10: 2013	American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices

Decision Rule

■ Uncertainty is not included.

☐ Uncertainty is included.

1.2. Testing Location

Lab Name: Eurofins E&E Wireless Taiwan Co., Ltd.

Site Address: ■ No. 140-1, Changan Street, Bade District, Taoyuan City 334025, Taiwan (R.O.C.)

Site Address: ☐ No. 2, Wuquan 5th Rd. Wugu Dist., New Taipei City, Taiwan (R.O.C.)

1.3. Measurement Uncertainty

Test Item	Frequency Range	Uncertainty
Conducted Emission	150 kHz ~ 30 MHz	2.7 dB
Radiated Emission	9 kHz ~ 30 MHz	1.9 dB
	30 MHz ~ 1000 MHz	4.9 dB
	1000 MHz ~ 18000 MHz	5.0 dB
	18000 MHz ~ 26500 MHz	4.4 dB
	26500 MHz ~ 40000 MHz	4.4 dB
RF Bandwidth		4.7 %
Frequency Stability		1.3 x 10^-7

2 EUT Description

Applicant	Micro-Star Int'l Co., Ltd. No.69, Lide St., Zhonghe Dist., New Taipei City 235, Taiwan (R.O.C.)
Product Name	NFC Module
Trade Name	MSI
Model Number	PN7150
FCC ID	I4LXP01N
Frequency Range	13.56 MHz
Modulation Type	ASK
Number of Channels	1 Channel
Antenna Type	Loop Antenna
Operate Temp. Range	-30 ~ +50 ℃
EUT Power Rating	Module : 3.0 V to 3.7 V Host : 200 ~ 240 VAC

3 Test Methodology

3.1. Mode of Operation

The following test mode(s) were scanned during the preliminary test：

Test Mode
Transmit Mode
Continuous TX Mode

After verification, all tests were carried out with the worst case test modes.

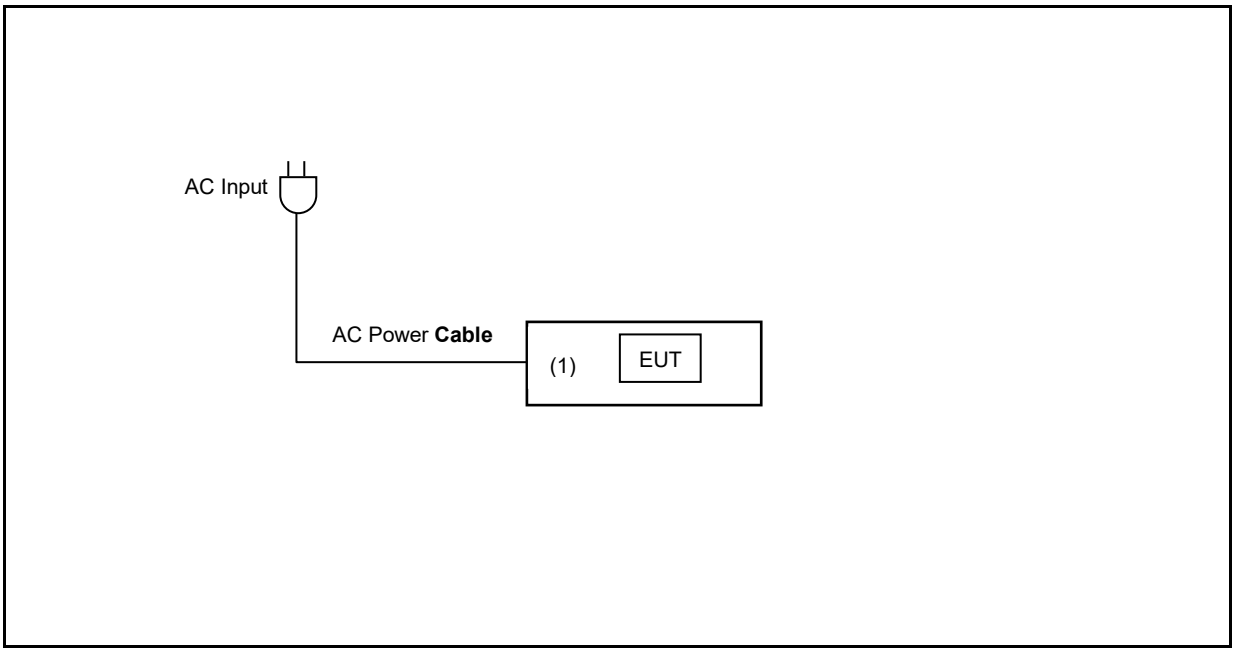
Eurofins has verified the construction and function in typical operation. All the test modes were carried out with the EUT in normal operation.

3.2. EUT Test Step

1.	Setup the EUT shown on “Configuration of Test System Details.”
2.	Turn on the power of all equipment.
3.	The EUT will start to operate function.

3.3. Configuration of Test System Details

Radiated Emission



Devices Description				
Product		Manufacturer	Model Number	Remark
(1)	EV Charger	MSI	MS-XP01	SKU : EV AI

3.4. Test Instruments

For Conducted Emission
Test Period: May 25, 2023
Testing Engineer: Jayson Hsieh

Test Site		Conduction01-BD				
Use	Equipment	Manufacturer	Model Number	Serial Number	Cal. Date	Cal. Period
☒	Test Receiver	R&S	ESCI	101000	Nov. 23, 2022	1 year
☒	LISN	R&S	ENV216	101040	Mar. 21, 2023	1 year
☒	LISN	R&S	ENV216	101140	Jan. 12, 2023	1 year
☒	RF Cable	Woken	00100D1380194M	TE-02-03	May 27, 2022	1 year
☒	Software	EZ EMC	1.1.4.3	N/A	N.C.R.	---

For Conducted
Test Period: May 23, 2023
Testing Engineer: John Chen

Test Site		RF01-BD				
Use	Equipment	Manufacturer	Model Number	Serial Number	Cal. Date	Cal. Period
☒	Spectrum Analyzer (3 Hz~50 GHz)	Agilent	N9030A	MY53120541	Dec. 29, 2022	1 year
☒	Temperature & Humidity Chamber	TAICHY	MHU-225LA	980729	Mar. 29, 2023	1 year
☒	Power Supply	KEITHLEY	2303	4045290	Jan. 06, 2023	1 year

Note: N.C.R. = No Calibration Request.

For Radiated Emissions
Test Period: May 24, 2023
Testing Engineer: Hung Chou

Test Site		96603-BD				
Radiation test sites		Semi Anechoic Room				
Use	Equipment	Manufacturer	Model Number	Serial Number	Cal. Date	Cal. Period
☒	Spectrum Analyzer (10 Hz~44 GHz)	Keysight	N9020B	MY60112363	Jan. 13, 2023	1 year
☒	Amplifier (100 kHz~1.3 GHz)	Agilent	8447D	2944A11119	Jan. 07, 2023	1 year
☒	Loop Antenna (9 kHz~30 MHz)	COM-POWER CORPORATION	AL-130	121014	Mar. 23, 2023	1 year
☒	Trilog Broadband Antenna (30 kHz~1 GHz)	Schwarzbeck Mess-Elektronik	VULB9168	01146	Jul. 22, 2022	1 year
☒	Coaxial Cable	Titan	T0710AT327A10A 100	J11005	Aug. 04, 2022	1 year
☒	Coaxial Cable	Titan	T0710AT327A10A 900	J11004	Aug. 04, 2022	1 year
☒	Coaxial Cable	Titan	CFD400NL-LW	001	Aug. 04, 2022	1 year
☒	Software	EZ EMC	1.1.4.4	N/A	N.C.R.	---

Note: N.C.R. = No Calibration Request.

3.5. Test Site Environment

Items	Required (IEC 60068-1)	Actual
Temperature (°C)	15-35	20-30
Humidity (%RH)	25-75	45-75

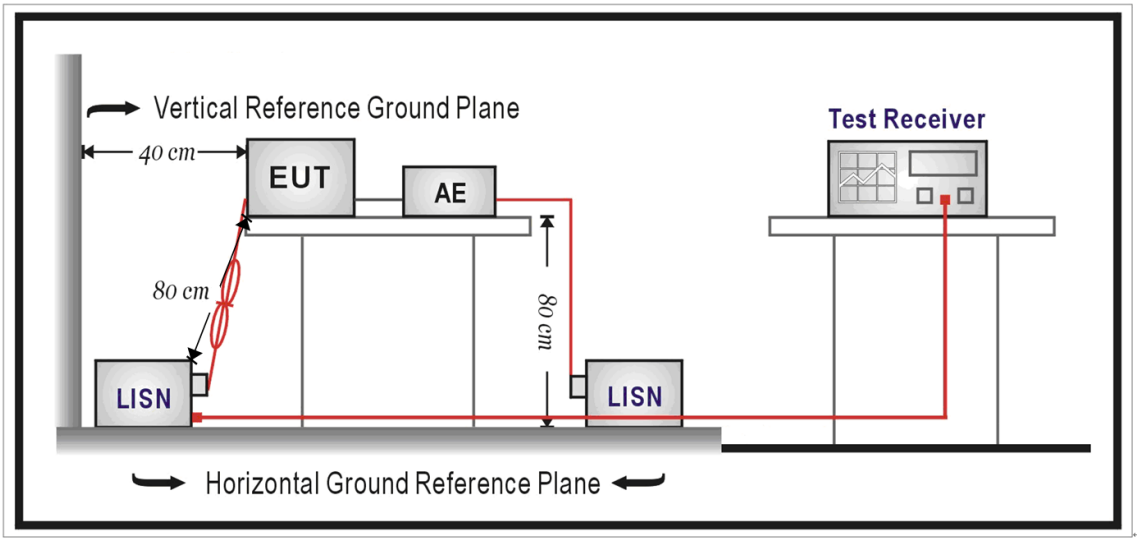
4 Measurement Procedure

4.1. AC Power Line Conducted Emission Measurement

■ **Limit**

Frequency (MHz)	Quasi-peak	Average
0.15 - 0.5	66 to 56	56 to 46
0.50 - 5.0	56	46
5.0 - 30.0	60	50

■ **Test Setup**



■ **Test Procedure**

The EUT and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a 50 Ω// 50 uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN that provides a 50 Ω// 50 uH coupling impedance with 50 ohm termination.

Tabletop device shall be placed on a non-conducting platform, of nominal size 1 m by 1.5 m, raised 80 cm above the reference ground plane. The wall of screened room shall be located 40 cm to the rear of the EUT. Other surfaces of tabletop or floor standing EUT shall be at least 80 cm from any other ground conducting surface including one or more LISNs. For floor-standing device shall be placed under the EUT with a 12 mm insulating material.

Conducted emissions were investigated over the frequency range from 0.15 MHz to 30 MHz using a resolution bandwidth of 9 kHz. The equipment under test (EUT) shall be meet the limits in section 4.1, as applicable, including the average limit and the quasi-peak limit when using respectively, an average detector and quasi-peak detector measured in accordance with the methods described of related standard. When all of peak value were complied with quasi-peak and average limit from 150 kHz to 30 MHz then quasi-peak and average measurement was unnecessary.

The AMN shall be placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for AMNs mounted on top of the ground reference plane. This distance is between the closest points of the AMN and the EUT. All other units of the EUT and associated equipment shall be at least 0.8 m from the AMN. If the mains power cable is longer than 1 m then the cable shall be folded back and forth at the centre of the lead to form a bundle no longer than 0.4 m. All of interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 cm to 40 cm long. All of EUT and AE shall be separate place more than 0.1 m. All 50 Ω ports of the LISN shall be resistively terminated into 50 Ω loads when not connected to the measuring instrument.

If the reading of the measuring receiver shows fluctuations close to the limit, the reading shall be observed for at least 15 s at each measurement frequency; the higher reading shall be recorded with the exception of any brief isolated high reading which shall be ignored.

4.2. Radiated Emission Measurement

■ **Limit**

According to §15.225,

(a) The field strength of any emissions within the band 13.553 – 13.567 MHz shall not exceed 15,848 microvolt / meter at 30 meters.

(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 microvolt / meter at 30 meters.

(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 microvolt / meter at 30 meters.

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

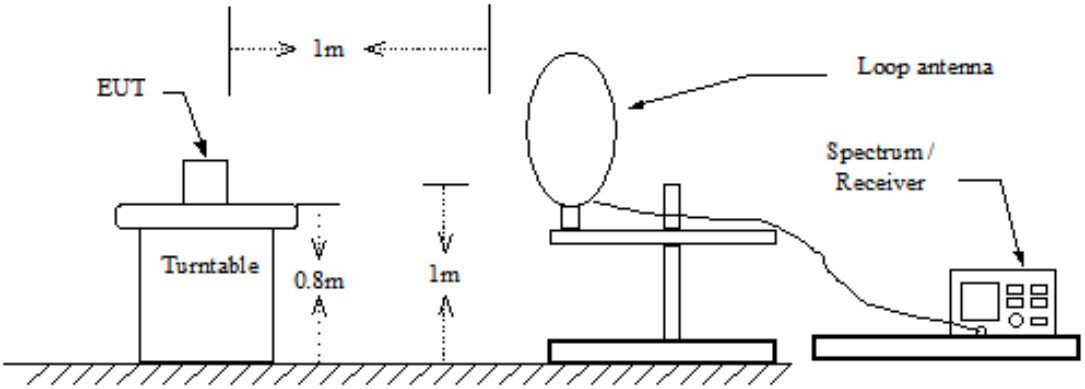
According to §15.225(a), except as provided elsewhere in this Subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

Frequency (MHz)	Field Strength (μV/m at meter)	Measurement Distance (meter)
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

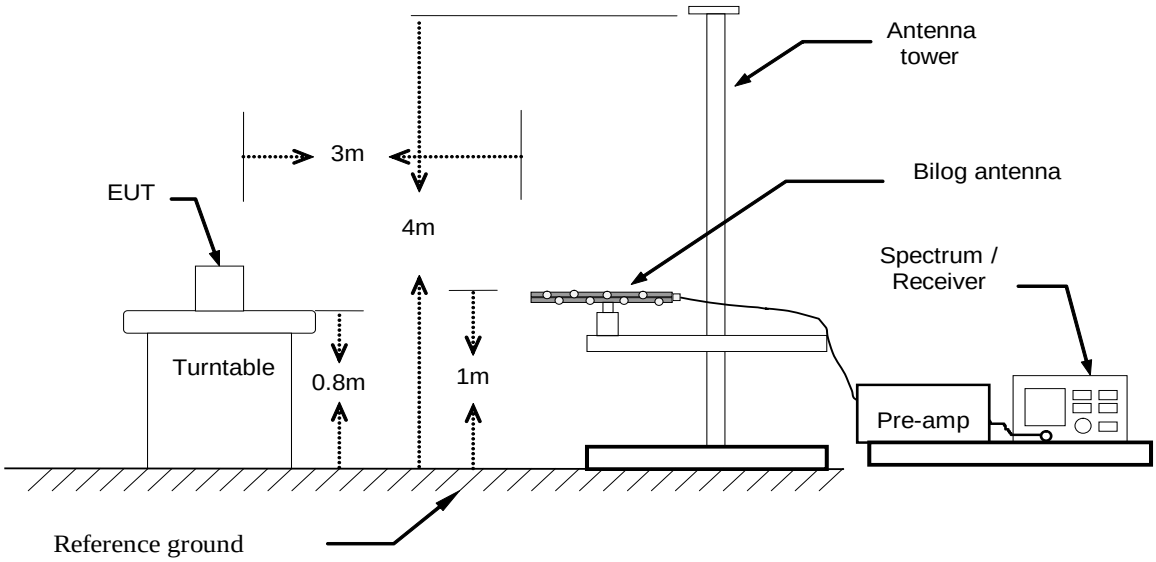
** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this Section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this Part, e.g., Sections 15.231 and 15.241.

■ **Setup**

9 kHz ~ 30 MHz



30 MHz ~ 1 GHz



■ **Test Procedure**

Final radiation measurements were made on a three-meter Semi Anechoic Chamber. The EUT system was placed on a nonconductive turntable which is 0.8 meters height, top surface 1.0 x 1.5 meter. The spectrum was examined from 3 Hz to 44 GHz in order to cover the whole spectrum below 10th harmonic which could generate from the EUT. During the test, EUT was set to transmit continuously.
For measurements below 30 MHz the resolution bandwidth is set to 10 kHz for peak detection measurements or 9 kHz for quasi-peak detection measurements. The video bandwidth is 3 times of the resolution bandwidth.
For measurements below 1 GHz the resolution bandwidth is set to 100 kHz for peak detection measurements or 120 kHz for quasi-peak detection measurements. Peak detection is used unless otherwise noted as quasi-peak.
For measurements above 1 GHz the resolution bandwidth is set to 1 MHz, and then the video bandwidth is set to 3 MHz for peak measurements and 10 Hz for average measurements.
A nonconductive material surrounded the EUT to supporting the EUT for standing on tree orthogonal planes. At each condition, the EUT was rotated 360 degrees, and the antenna was raised and lowered from one to four meters to find the maximum emission levels. Measurements were taken using both horizontal and vertical antenna polarization.
Broadband/Horn Antenna were used in frequency 30 MHz to 18 GHz at a distance of 3 meter. Loop/Horn Antenna was used in frequency 9 kHz to 30 MHz and 18 to 26.5 GHz at a distance of 1 meter. All test results were extrapolated to equivalent signal at 3 meters utilizing an inverse linear distance extrapolation Factor (20 dB/decade).

For testing above 1 GHz, the emission level of the EUT in peak mode was 20 dB lower than average limit (that means the emission level in peak mode also complies with the limit in average mode), then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.
Appropriate preamplifiers were used for improving sensitivity and precautions were taken to avoid overloading or desensitizing the spectrum analyzer. No post – detector video filters were used in the test.

The spectrum analyzer's 6 dB bandwidth was set to 1 MHz, and the analyzer was operated in the peak detection mode, for frequencies both below and up 1 GHz. The average levels were obtained by subtracting the duty cycle correction factor from the peak readings.
The following procedures were used to convert the emission levels measured in decibels referenced to 1 microvolt (dBuV) into field intensity in microvolt pre-meter (uV/m).
The actual field intensity in decibels referenced to 1 microvolt in to field intensity in microvolt per-meter (dBuV/m).

The actual field is intensity in referenced to 1 microvolt per meter (dBuV/m) is determined by algebraically adding the measured reading in dBuV, the antenna factor (dB), and cable loss (dB) and Subtracting the gain of preamplifier (dB) is auto calculate in spectrum analyzer.

(1) Amplitude (dBuV/m) = FI (dBuV) +AF (dBuV) +CL (dBuV)-Gain (dB)
FI= Reading of the field intensity.
AF= Antenna factor.
CL= Cable loss.
P.S Amplitude is auto calculate in spectrum analyzer.
(2) Actual Amplitude (dBuV/m) = Amplitude (dBuV)-Dis(dB)
The FCC specified emission limits were calculated according the EUT operating frequency and by following linear interpolation equations:
(a) For fundamental frequency : Transmitter Output < +30 dBm
(b) For spurious frequency : Spurious emission limits = fundamental emission limit /10

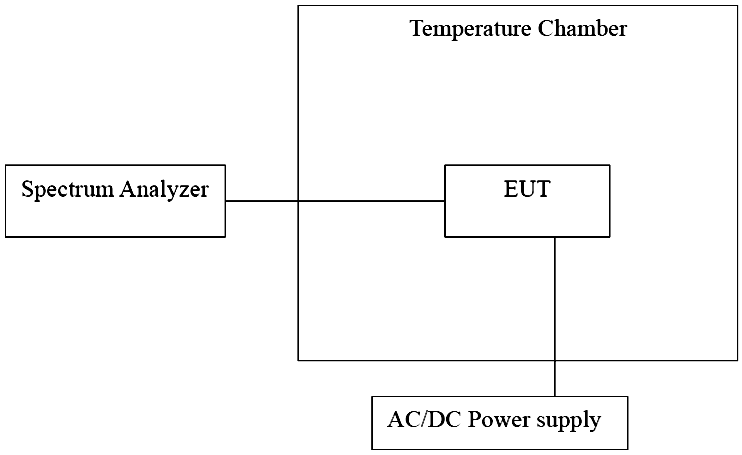
Data of measurement within this frequency range without mark in the table above means the reading of emissions are attenuated more than 20 dB below the permissible limits or the field strength is too small to be measured.

4.3. Frequency Stability Measurement

■ **Limit**

According to §15.207(e), the frequency tolerance of the carrier signal shall be maintained within +/- 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 Setup**



■ **Test Procedure**

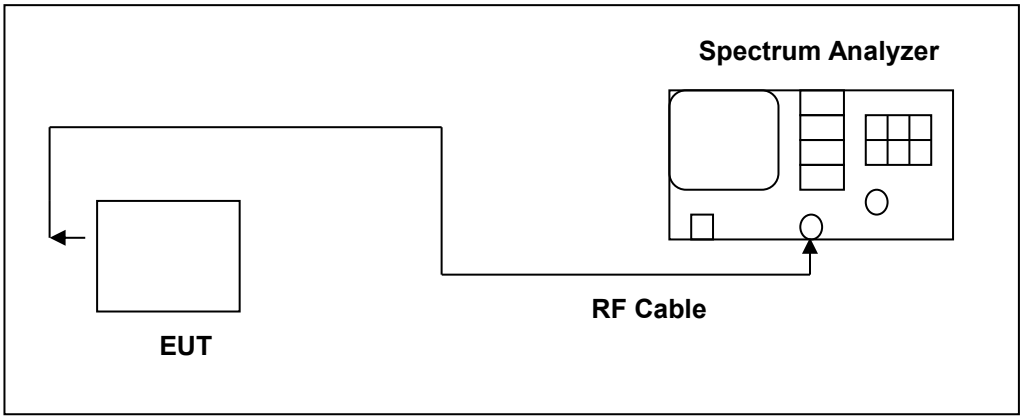
1. Place the EUT on the table and set it in the transmitting mode.
2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
3. Set the environment into appropriate environment.
4. Set the spectrum analyzer as RBW = 1 kHz, VBW = RBW, Span = 200 kHz, Sweep = auto.
5. Mark the peak frequency and measure the frequency tolerance using frequency counter function.
6. Repeat until all the results are investigated.

4.4. 20 dB Bandwidth Measurement

■ **Limit**

N/A

■ **Test Setup**



■ **Test Procedure**

Connect RF output port to the input of the spectrum analyzer. Connect the DUT to appropriate power supply. Turn RFID function of DUT on.

Analyzer used the following settings:

1. Span = 60 kHz
2. RBW ≥ 1 % of the 20 dB span
3. VBW ≥ RBW
4. Sweep = auto
5. Detector function = peak
6. Trace = max hold

The trace was allowed to stabilize. The EUT was transmitting at its maximum data rate. The marker-to-peak function was used to set the marker to the peak of the emission. The marker-delta function was used to measure 20 dB down one side of the emission. The marker-delta function and marker was moved to the other side of the emission until it was even with the reference marker. The marker-delta reading at this point was the 20 dB bandwidth of the emission.

4.5. Antenna Requirement

■ **Require**

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. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

■ **Antenna Connector Construction**

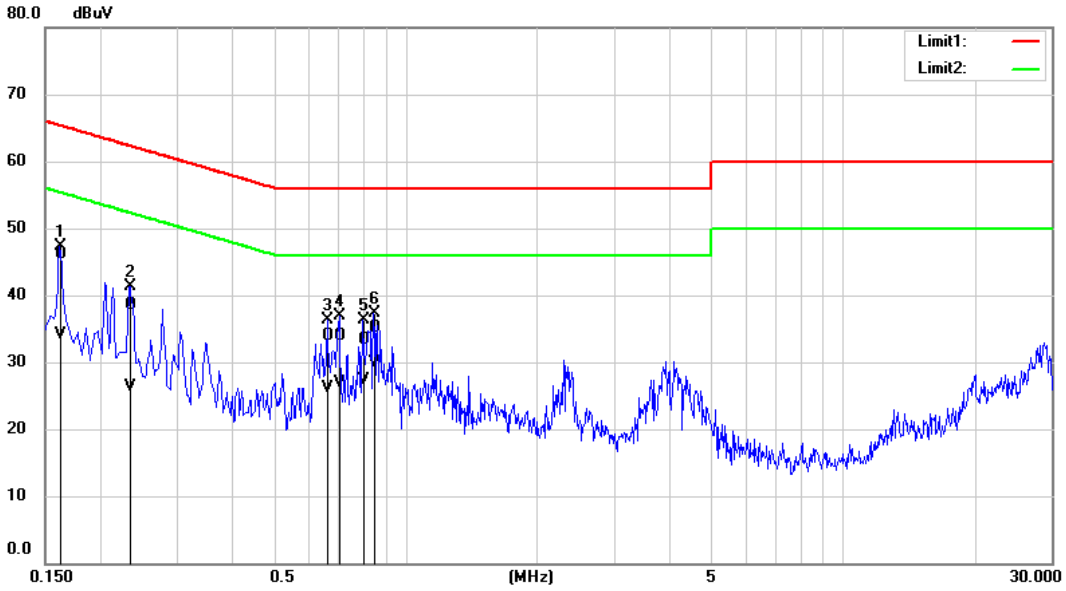
The antenna connector used in this product is internal antenna, cannot be replaced by the end-user.

See section 2 – antenna information.

5 Test Results

5.1. Conducted Emission

Standard:	FCC Part 15.225	Line:	L1
Test item:	Conducted Emission	Power:	AC 120 V/60 Hz
Mode:	Transmit Mode		
Description:			

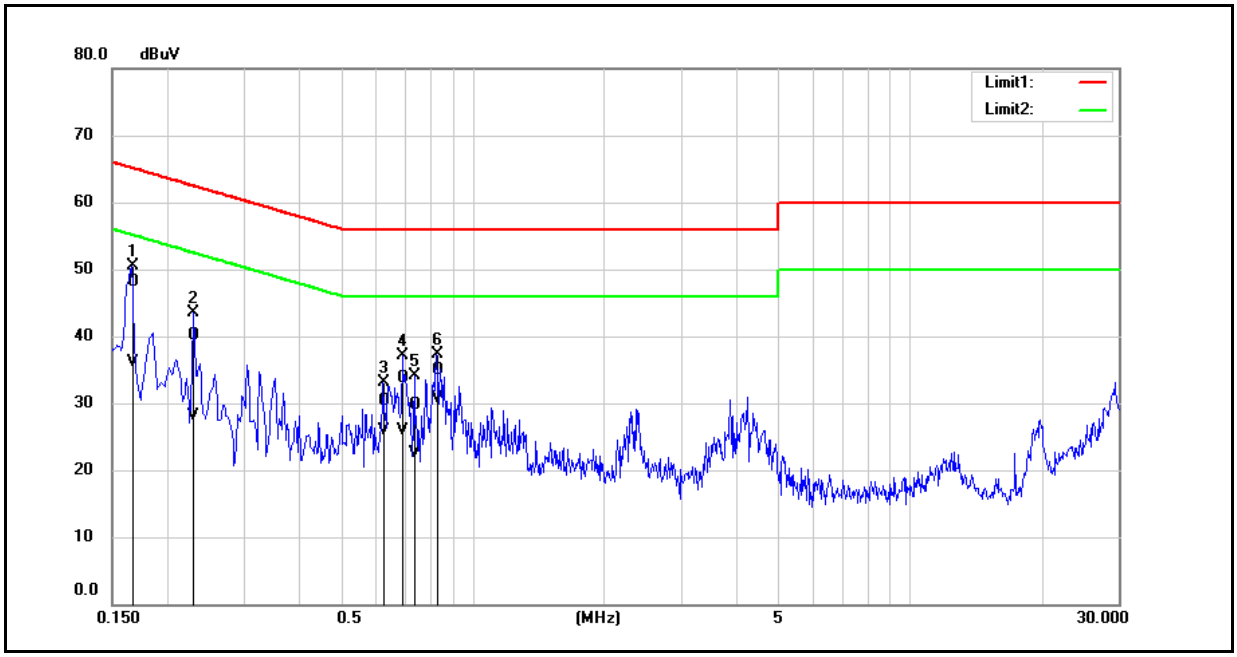


No.	Frequency (MHz)	QP reading (dBuV)	AVG reading (dBuV)	Correction factor (dB)	QP result (dBuV)	AVG result (dBuV)	QP limit (dBuV)	AVG limit (dBuV)	QP margin (dB)	AVG margin (dB)	Remark
1	0.1620	36.45	24.60	9.59	46.04	34.19	65.36	55.36	-19.32	-21.17	Pass
2	0.2340	28.93	16.69	9.58	38.51	26.27	62.31	52.31	-23.80	-26.04	Pass
3	0.6620	24.21	16.43	9.61	33.82	26.04	56.00	46.00	-22.18	-19.96	Pass
4	0.7060	24.32	17.28	9.62	33.94	26.90	56.00	46.00	-22.06	-19.10	Pass
5	0.7980	23.68	17.72	9.62	33.30	27.34	56.00	46.00	-22.70	-18.66	Pass
6	0.8460	25.58	20.25	9.62	35.20	29.87	56.00	46.00	-20.80	-16.13	Pass

Note: 1. Result (dBuV) = Correction factor (dB) + Reading(dBuV).

2. Correction factor (dB) = Cable loss (dB) + L.I.S.N. factor (dB).

Standard:	FCC Part 15.225	Line:	N
Test item:	Conducted Emission	Power:	AC 120 V/60 Hz
Mode:	Transmit Mode		
Description:			



No.	Frequency (MHz)	QP reading (dBuV)	AVG reading (dBuV)	Correction factor (dB)	QP result (dBuV)	AVG result (dBuV)	QP limit (dBuV)	AVG limit (dBuV)	QP margin (dB)	AVG margin (dB)	Remark
1	0.1660	38.47	26.47	9.58	48.05	36.05	65.16	55.16	-17.11	-19.11	Pass
2	0.2300	30.43	18.50	9.58	40.01	28.08	62.45	52.45	-22.44	-24.37	Pass
3	0.6260	20.66	16.26	9.60	30.26	25.86	56.00	46.00	-25.74	-20.14	Pass
4	0.6900	24.05	16.21	9.60	33.65	25.81	56.00	46.00	-22.35	-20.19	Pass
5	0.7380	20.03	12.91	9.61	29.64	22.52	56.00	46.00	-26.36	-23.48	Pass
6	0.8300	25.27	21.01	9.61	34.88	30.62	56.00	46.00	-21.12	-15.38	Pass

Note: 1. Result (dBuV) = Correction factor (dB) + Reading(dBuV).

2. Correction factor (dB) = Cable loss (dB) + L.I.S.N. factor (dB).

5.2. Conducted Test Results

Frequency Stability Measurement

Temperature Variations

Test Mode		Continuous TX Mode					
Temp. (°C)	Voltage (VAC)	0 minute Frequency Tolerance (%)	2 minutes Frequency Tolerance (%)	5 minutes Frequency Tolerance (%)	10 minutes Frequency Tolerance (%)	Limit (%)	Result (Pass/Fail)
-20	V_{Nom}	-0.0007	0.0007	-0.0007	-0.0022	±0.01	Pass
-10	V_{Nom}	-0.0015	-0.0007	-0.0015	-0.0007	±0.01	Pass
0	V_{Nom}	-0.0015	-0.0007	-0.0015	-0.0015	±0.01	Pass
10	V_{Nom}	-0.0007	-0.0015	-0.0015	-0.0007	±0.01	Pass
20	V_{Nom}	-0.0007	-0.0007	-0.0015	-0.0007	±0.01	Pass
30	V_{Nom}	-0.0007	0.0000	0.0000	-0.0007	±0.01	Pass
40	V_{Nom}	0.0000	-0.0007	-0.0007	0.0000	±0.01	Pass
50	V_{Nom}	0.0000	-0.0007	0.0000	0.0000	±0.01	Pass

Voltage Variations

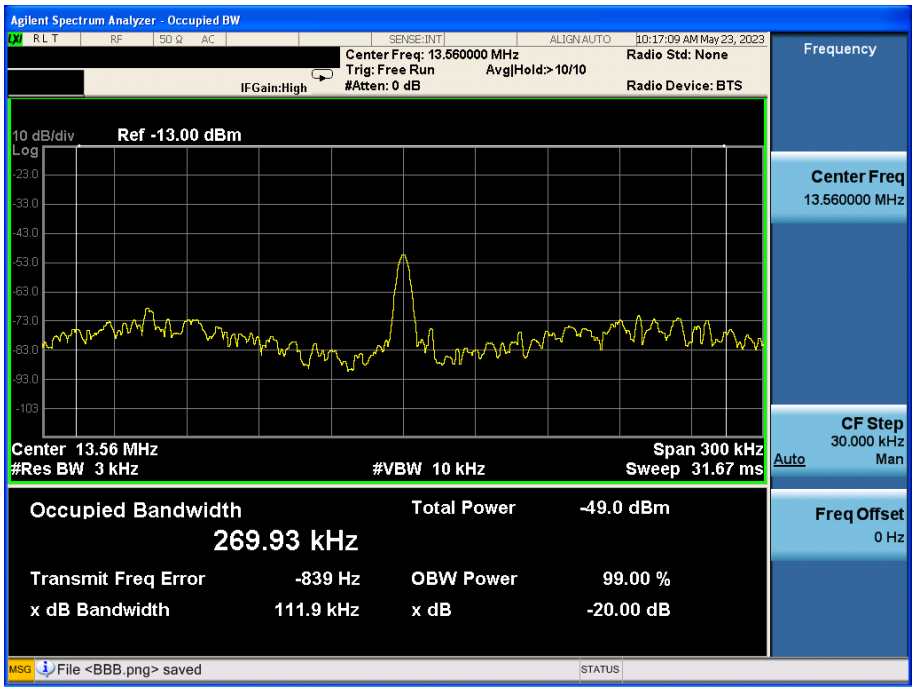
Test Mode		Continuous TX Mode					
Temp. (°C)	Voltage (VAC)	0 minute Frequency Tolerance (%)	2 minutes Frequency Tolerance (%)	5 minutes Frequency Tolerance (%)	10 minutes Frequency Tolerance (%)	Limit (%)	Result (Pass/Fail)
20	V_{Low}	-0.0007	0.0000	-0.0015	-0.0015	±0.01	Pass
	V_{Nom}	-0.0007	-0.0007	-0.0015	-0.0007	±0.01	Pass
	V_{High}	0.0000	-0.0015	-0.0007	-0.0007	±0.01	Pass

Note: $V_{Low}=V_{Nom}-15$ % ; $V_{High}=V_{Nom}+15$ %

20 dB Bandwidth Measurement

Test Mode	Continuous TX mode
Frequency (kHz)	20 dB Bandwidth (kHz)
13.56	111.9

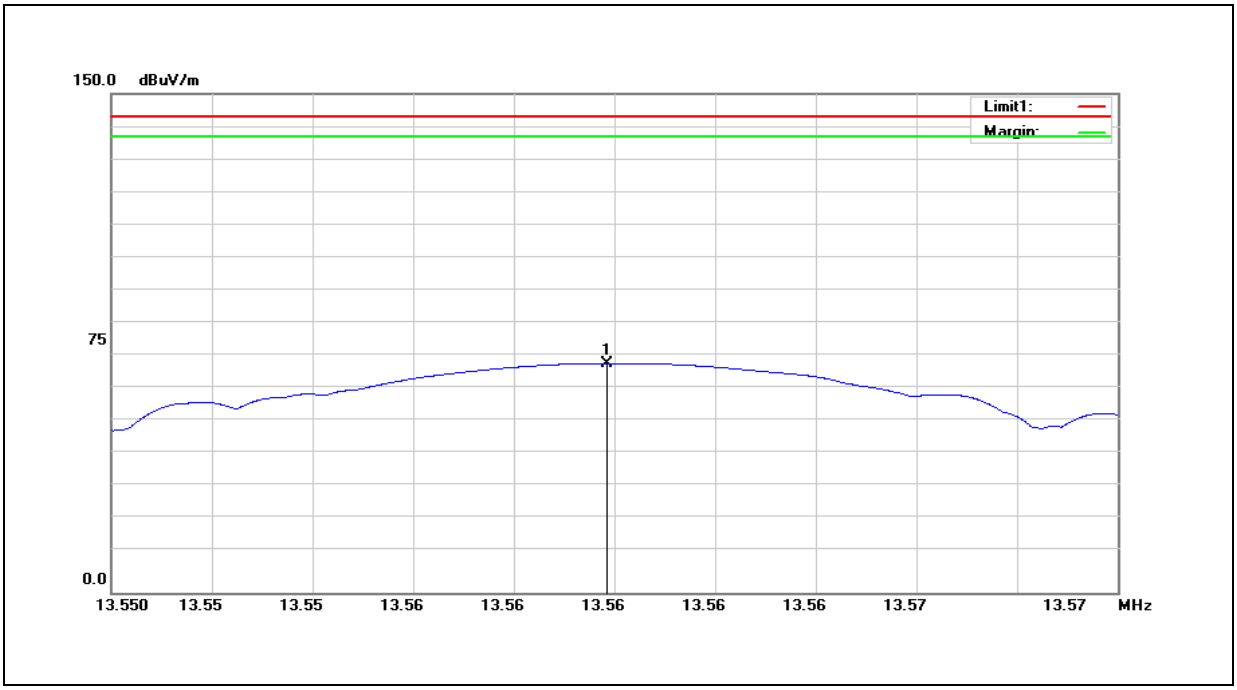
■ **Test Graphs**



5.3. Radiated Emission Measurement

Fundamental

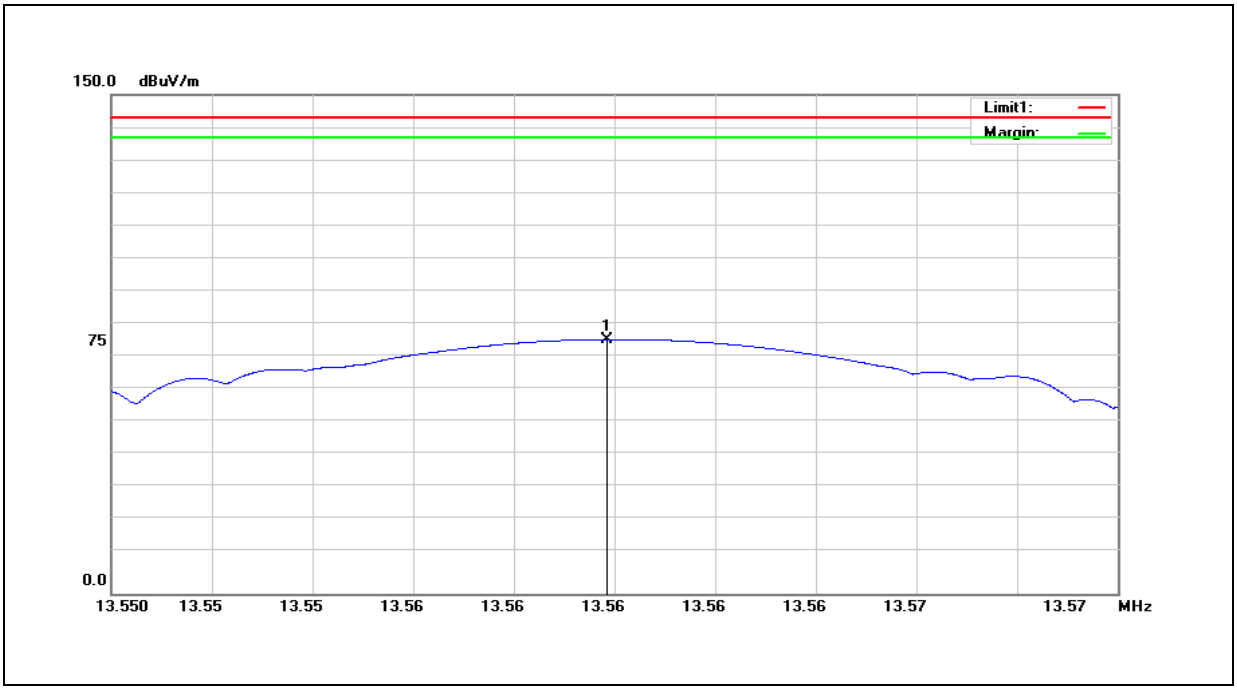
Standard:	Part 15.225	Test Distance:	1 m
Test item:	Fundamental		
Mode:	Continuous TX Mode		
Ant.Polar.:	Horizontal		



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Near-Field Result (dBuV/m)	Derived Value (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	13.5600	53.40	15.60	69.00	28.53	84.00	-55.47	PEAK

Note: The level is measured at 1 meter and is converted into result at 30 meter.
The converted formula listed below:
Measure result (1 meter distance): a
Compute result (30 meter distance): A
$d_{near\ field} = \lambda/2\pi$, $d_{measure}$ = 1 meter distance
$A = a - 40*\log(d_{near\ field}/d_{measure}) - 20*\log(d_{limit}/d_{near\ field})$

Standard:	Part 15.225	Test Distance:	1 m
Test item:	Fundamental		
Mode:	Continuous TX Mode		
Ant.Polar.:	Vertical		



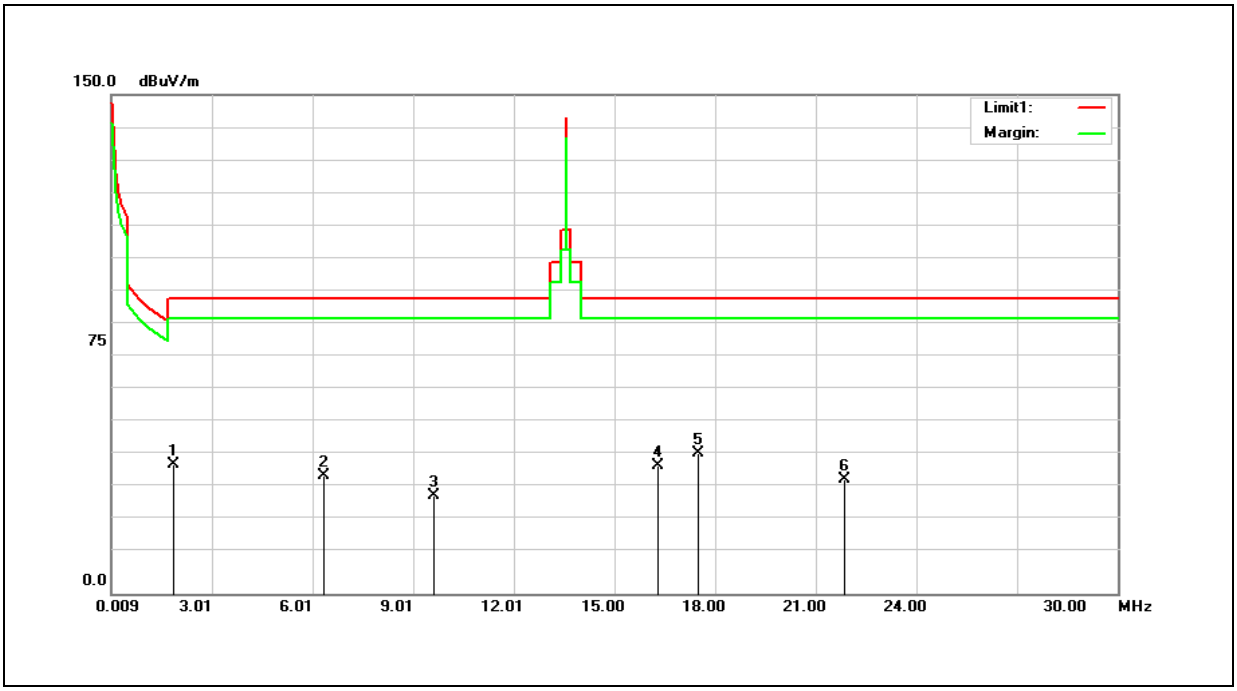
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Near-Field Result (dBuV/m)	Derived Value (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	13.5600	60.88	15.60	76.48	36.01	84.00	-47.99	PEAK

Note: The level is measured at 1 meter and is converted into result at 30 meter.

Harmonic

9 kHz ~ 30 MHz:

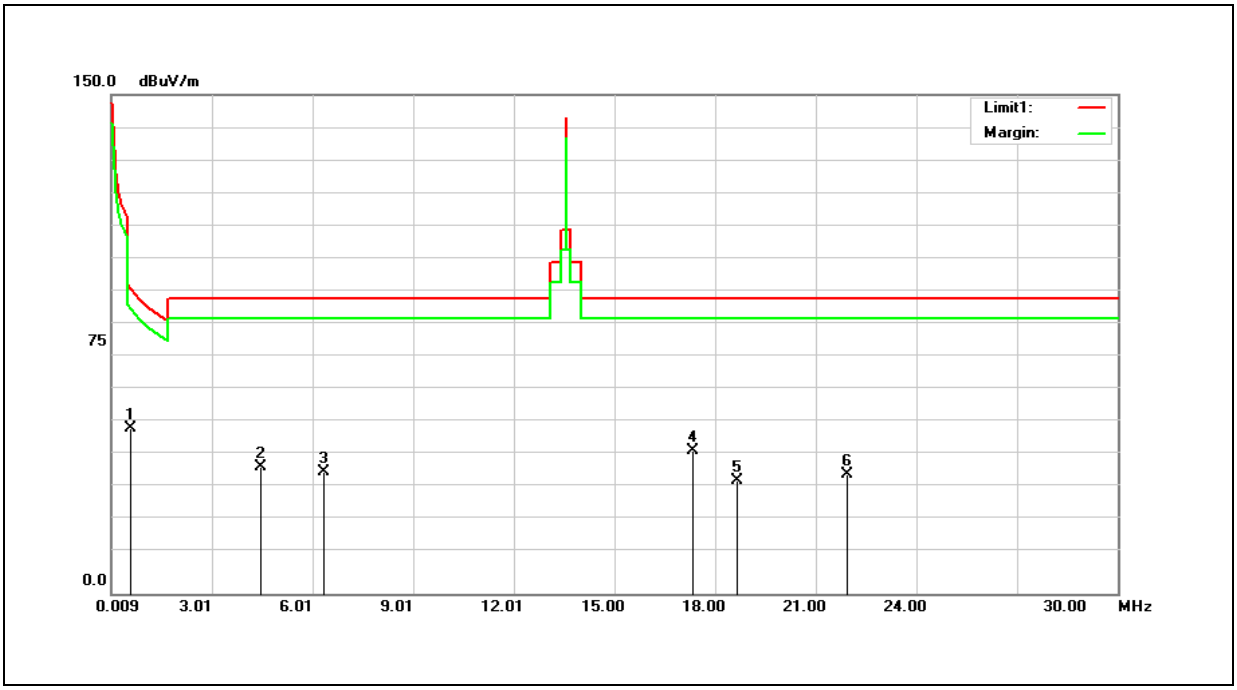
Standard:	Part 15.225	Test Distance:	300/30 m
Test item:	Harmonic		
Mode:	Continuous TX Mode		
Ant.Polar.:	Horizontal		



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Near-Field Result (dBuV/m)	Derived Value (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1.8684	24.21	14.63	38.84	-18.85	29.54	-48.40	PEAK
2	6.3371	20.10	15.22	35.32	-11.76	29.54	-41.30	PEAK
3	9.636	13.98	15.44	29.42	-14.01	29.54	-43.56	PEAK
4	16.324	22.80	15.56	38.36	-0.52	29.54	-30.06	PEAK
5	17.4938	26.50	15.57	42.07	3.80	29.54	-25.74	PEAK
6	21.8424	19.16	15.28	34.44	-1.91	29.54	-31.45	PEAK

Note: The level is measured at 1 meter and is converted into result at 300 or 30 meter.

Standard:	Part 15.225	Test Distance:	300/30 m
Test item:	Harmonic		
Mode:	Continuous TX Mode		
Ant.Polar.:	Vertical		

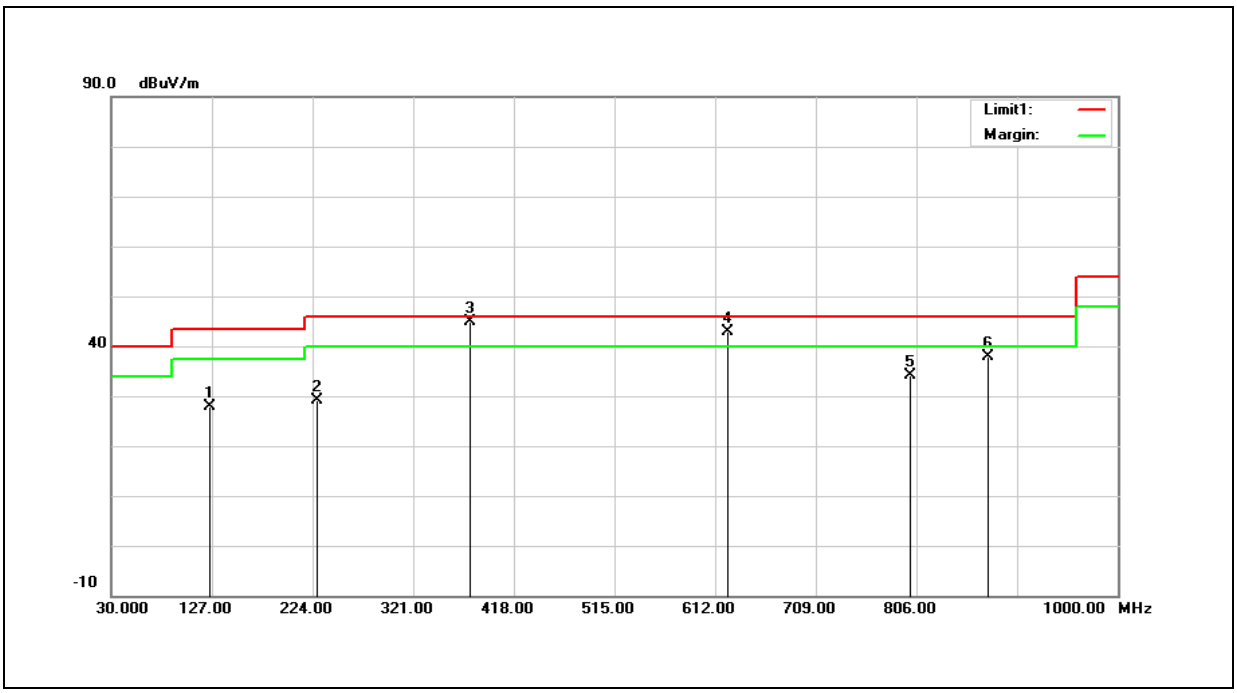


No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Near-Field Result (dBuV/m)	Derived Value (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	0.5787	35.37	14.19	49.56	-18.31	32.36	-50.67	PEAK
2	4.4775	23.27	14.97	38.24	-11.86	29.54	-41.40	PEAK
3	6.3371	21.52	15.22	36.74	-10.34	29.54	-39.88	PEAK
4	17.3438	27.45	15.57	43.02	4.69	29.54	-24.85	PEAK
5	18.6633	18.16	15.60	33.76	-3.95	29.54	-33.49	PEAK
6	21.9623	20.71	15.26	35.97	-0.30	29.54	-29.84	PEAK

Note: The level is measured at 1 meter and is converted into result at 300 or 30 meter.

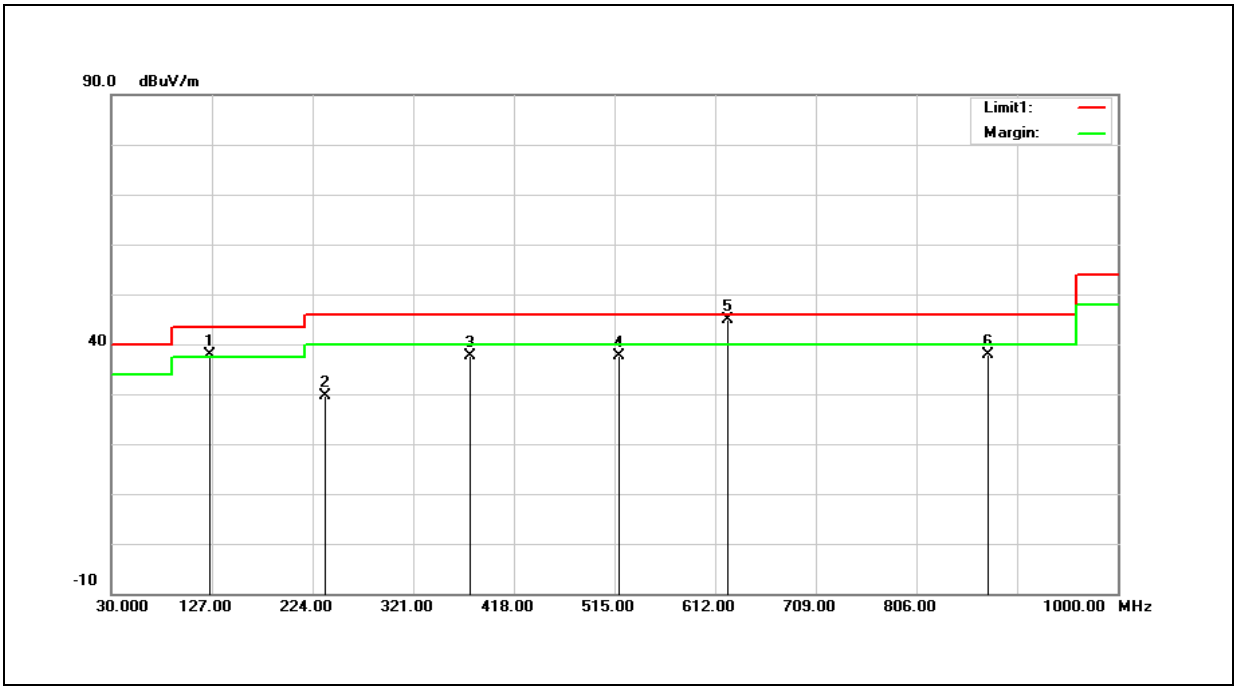
30 MHz ~ 1 GHz:

Standard:	Part 15.225	Test Distance:	3 m
Test item:	Harmonic		
Mode:	Continuous TX Mode		
Ant.Polar.:	Horizontal		



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	125.0600	37.18	-9.31	27.87	43.50	-15.63	QP
2	227.8800	37.58	-8.56	29.02	46.00	-16.98	QP
3	375.3200	49.04	-4.19	44.85	46.00	-1.15	QP
4	624.6100	42.53	0.32	42.85	46.00	-3.15	QP
5	800.1800	30.50	3.74	34.24	46.00	-11.76	QP
6	874.8700	33.06	4.94	38.00	46.00	-8.00	QP

Standard:	Part 15.225	Test Distance:	3 m
Test item:	Harmonic		
Mode:	Continuous TX Mode		
Ant.Polar.:	Vertical		



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	125.0600	47.26	-9.31	37.95	43.50	-5.55	QP
2	235.6400	37.69	-7.99	29.70	46.00	-16.30	QP
3	375.3200	41.91	-4.19	37.72	46.00	-8.28	QP
4	519.8500	39.23	-1.59	37.64	46.00	-8.36	QP
5	624.6100	44.60	0.32	44.92	46.00	-1.08	QP
6	874.8700	33.06	4.94	38.00	46.00	-8.00	QP

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