



Project No: TM-2405000413P  
Report No.: TMWK2405001810KR

FCC ID: P4Q-PROX  
IC: 2420C-PROX

Page: 1 / 38  
Rev.: 00

## FCC 47 CFR PART 15 SUBPART C & INDUSTRY CANADA RSS-210

### TEST REPORT

For

**PRO X**

**Model No.: N727**

**Trade Name: MiTAC, Bridgestone Mobility Solutions**

Issued to

**Mitac Digital Technology Corporation**  
**4F., No. 1, R&D Road 2, Hsinchu Science Park, Hsinchu 30076 Taiwan**

Issued by

**Compliance Certification Services Inc.**  
**Wugu Laboratory**  
**No.11, Wugong 6th Rd., Wugu Dist.,**  
**New Taipei City, Taiwan.**  
**Issued Date: September 16, 2024**

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

除非另有說明，此報告結果僅對測試之樣品負責，同時此樣品僅保留90天。本報告未經本公司書面許可，不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com.tw/Terms-and-Conditions> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com.tw/Terms-and-Conditions>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of client's instruction, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced, except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.



Report No.: TMWK2405001810KR

Page: 2 / 38

Rev.: 00

## **Revision History**

Rev.	Issue Date	Revisions	Effect Page	Revised By
00	September 16, 2024	Initial Issue	ALL	Peggy Tsai

## TABLE OF CONTENTS

<b>1. TEST RESULT CERTIFICATION.....</b>	<b>4</b>
<b>2. EUT DESCRIPTION.....</b>	<b>5</b>
<b>3. TEST METHODOLOGY.....</b>	<b>7</b>
3.1 EUT CONFIGURATION .....	7
3.2 FCC PART 15.205 RESTRICTED BANDS OF OPERATIONS.....	7
3.3 RSS GEN SECTION 8.10 RESTRICTED BANDS OF OPERATIONS.....	8
3.4 DESCRIPTION OF TEST MODES .....	9
<b>4. TEST SUMMARY.....</b>	<b>10</b>
<b>5. INSTRUMENT CALIBRATION.....</b>	<b>11</b>
5.1 MEASURING INSTRUMENT CALIBRATION .....	11
5.2 MEASUREMENT EQUIPMENT USED .....	11
5.3 MEASUREMENT UNCERTAINTY .....	13
5.4 FACILITIES AND TEST LOCATION .....	13
<b>6. SETUP OF EQUIPMENT UNDER TEST .....</b>	<b>14</b>
6.1 SETUP CONFIGURATION OF EUT .....	14
6.2 SUPPORT EQUIPMENT .....	14
<b>7. FCC PART 15.225 REQUIREMENTS &amp; RSS-210 REQUIREMENTS.....</b>	<b>16</b>
7.1 OCCUPIED BANDWIDTH(99%) AND 20 DB BANDWIDTH.....	16
7.2 FUNDAMENTAL AND RADIATED EMISSIONS .....	18
7.3 FREQUENCY STABILITY .....	28
7.4 POWERLINE CONDUCTED EMISSIONS.....	32
<b>APPENDIX A PHOTOGRAPHS OF TEST SETUP .....</b>	<b>A-1</b>

Report No.: TMWK2405001810KR

## 1. TEST RESULT CERTIFICATION

**Applicant:** Mitac Digital Technology Corporation  
4F., No. 1, R&D Road 2, Hsinchu Science Park, Hsinchu 30076  
Taiwan

**Manufacturer:** Mitac Digital Technology Corporation  
4F., No. 1, R&D Road 2, Hsinchu Science Park, Hsinchu  
30076 Taiwan

**Equipment Under Test:** PRO X

**Trade Name:** MiTAC, Bridgestone Mobility Solutions

**Model No.:** N727

**Date of Test:** June 20 ~ July 10, 2024

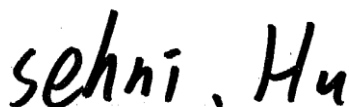
APPLICABLE STANDARDS	
STANDARD	TEST RESULT
FCC 47 CFR Part 15 Subpart C & RSS-210 Issue 10 and RSS-GEN Issue 5	Compliance
Statements of Conformity	
Determination of compliance is based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.	

### We hereby certify that:

The above equipment was tested by Compliance Certification Services Inc. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10: 2013 and the energy emitted by the sample tested as described in this report is in compliance with the requirements of FCC Rules Part 15.225.

The test results of this report relate only to the tested sample identified in this report.

Approved by:




---

Sehni Hu  
Supervisor

## 2. EUT DESCRIPTION

<b>Product</b>	PRO X
<b>Trade</b>	MiTAC, Bridgestone Mobility Solutions
<b>Model No.</b>	N727
<b>Model Discrepancy</b>	Difference of the those trade names (list on this report) are just for marketing purpose only.
<b>Received Date</b>	May 29, 2024
<b>Power Supply</b>	<ol style="list-style-type: none"> <li>1. Power from Adapter. LUCENT TRANS / 1A52-PD20W I/P: 100-240Vac, 800mA, 50-60Hz O/P: 5Vdc, 3A or 9Vdc, 2.22A</li> <li>2. Power from Adapter. TTT / MSS050200BI I/P: 100-240Vac, 0.3A, 50-60Hz O/P: 5.0Vdc, 2A(10.0W)</li> <li>3. Power from Car Charger. TTT/ TCV10100 I/P: DC 12-24V O/P: DC 5V, 2A (MAX)</li> <li>4. Power from Cradle. Webfleet solutions / N653 Video Cradle I/P (1): DC 12V, 1A or DC 24V, 0.5A (Fleet Port) I/P (2): DC 5V, 2A (USB-C)</li> <li>5. Power from Battery. Apower Electronics Co., Ltd. / AEC565786B Rating: 3.8Vdc, 4000mAh, 15.2Wh</li> <li>6. Power from Host System.(DC 5V)</li> </ol>
<b>Frequency Range</b>	13.56MHz
<b>Modulation Technique</b>	ASK
<b>Number of Channels</b>	1 Channel

Report No.: TMWK2405001810KR

Page: 6 / 38

Rev.: 00

<b>Antenna Requirement</b>	Antenna type: Loop Antenna
<b>EUT Serial #</b>	HO145U00012
<b>PMN</b>	PRO X
<b>HW Version</b>	R01A
<b>SW Version</b>	SR07

**Remark:**

1. For more details, refer to the User's manual of the EUT.
2. Disclaimer: Antenna information is provided by the applicant, test results of this report are applicable to the sample EUT received.
3. Disclaimer The variant trademarks are assessed as identical in hardware and software to each other, hence all variants are fully covered by the test results in this test report without further verification test.

### 3. TEST METHODOLOGY

The tests documented in this report were performed in accordance with ANSI C63.10: 2013 and FCC CFR 47 Part 15.207, 15.209, 15.215, 15.225.

The tests documented in this report were performed in accordance with IC RSS-210, IC RSS-Gen, and ANSI C63.10: 2013

#### 3.1 EUT CONFIGURATION

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner that intends to maximize its emission characteristics in a continuous normal application.

#### 3.2 FCC PART 15.205 RESTRICTED BANDS OF OPERATIONS

- (a) Except as shown in paragraph (d) of this section, only spurious emissions are permitted in any of the frequency bands listed below:

MHz	MHz	MHz	GHz
0.090 - 0.110	16.42 - 16.423	399.9 - 410	4.5 - 5.15
<sup>1</sup> 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	( <sup>2</sup> )
13.36 - 13.41	322 - 335.4		

<sup>1</sup> Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz.

<sup>2</sup> Above 38.6

- (b) Except as provided in paragraphs (d) and (e), the field strength of emissions appearing within these frequency bands shall not exceed the limits shown in Section 15.209. At frequencies equal to or less than 1000 MHz, compliance with the limits in Section 15.209 shall be demonstrated using measurement instrumentation employing a CISPR quasi-peak detector. Above 1000 MHz, compliance with the emission limits in Section 15.209 shall be demonstrated based on the average value of the measured emissions. The provisions in Section 15.35 apply to these measurements.

### 3.3 RSS GEN SECTION 8.10 RESTRICTED BANDS OF OPERATIONS

Restricted frequency bands, identified in table 7, are designated primarily for safety-of-life services (distress calling and certain aeronautical activities), certain satellite downlinks, radio astronomy and some government uses. Except where otherwise indicated, the following conditions related to the restricted frequency bands apply:

- The transmit frequency, including fundamental components of modulation, of licence-exempt radio apparatus shall not fall within the restricted frequency bands listed in table 7 except for apparatus compliant with RSS-287, Emergency Position Indicating Radio Beacons (EPIRB), Emergency Locator Transmitters (ELT), Personal Locator Beacons (PLB), and Maritime Survivor Locator Devices (MSLD).
- Unwanted emissions that fall into restricted frequency bands listed in table 7 shall comply with the limits specified in table 5 and table 6.
- Unwanted emissions that do not fall within the restricted frequency bands listed in table 7 shall comply either with the limits specified in the applicable RSS or with those specified in table 5 and table 6.

Table 7 – Restricted frequency bands <sup>Note 1</sup>			
MHz	MHz	MHz	GHz
0.090 - 0.110	16.42 - 16.423	608 - 614	9.0 - 9.2
0.495 - 0.505	16.69475 - 16.69525	960 - 1427	9.3 - 9.5
2.1735 - 2.1905	16.80425 - 16.80475	1435 - 1626.5	10.6 - 12.7
3.020 - 3.026	25.5 - 25.67	1645.5 - 1646.5	13.25 - 13.4
4.125 - 4.128	37.5 - 38.25	1660 - 1710	14.47 - 14.5
4.17725 - 4.17775	73 - 74.6	1718.8 - 1722.2	15.35 - 16.2
4.20725 - 4.20775	74.8 - 75.2	2200 - 2300	17.7 - 21.4
5.677 - 5.683	108 - 138	2310 - 2390	22.01 - 23.12
6.215 - 6.218	149.9 - 150.05	2483.5 - 2500	23.6 - 24.0
6.26775 - 6.26825	156.52475 -	2655 - 2900	31.2 - 31.8
6.31175 - 6.31225	156.52525	3260 - 3267	36.43 - 36.5
8.291 - 8.294	156.7 - 156.9	3332 - 3339	Above 38.6
8.362 - 8.366	162.0125 - 167.17	3345.8 - 3358	
8.37625 - 8.38675	167.72 - 173.2	3500 - 4400	
8.41425 - 8.41475	240 - 285	4500 - 5150	
12.29 - 12.293	322 - 335.4	5350 - 5460	
12.51975 - 12.52025	399.9 - 410	7250 - 7750	
12.57675 - 12.57725		8025 - 8500	
13.36 - 13.41			

**Note 1:** Certain frequency bands listed in table 7 and in bands above 38.6 GHz are designated for licence-exempt applications. These frequency bands and the requirements that apply to related devices are set out in the 200 and 300 series of RSSs.



### 3.4 DESCRIPTION OF TEST MODES

The EUT had been tested under engineering test mode condition and the EUT staying in continuous transmitting mode.

All modes and data rates were investigated and it was determined that ISO 14443A/B and ISO 18092 Type y, 106/212/424/848 kbps.

All data rates were investigated and it was determined that 106 Kbps was considered worst-case. Therefore, all testing was performed in 106 Kbps mode.

#### 3.4.1 The worst mode of measurement

AC Power Line Conducted Emission	
Test Condition	AC Power line conducted emission for line and neutral
Power supply Mode	Mode 1: EUT Power by Host System Mode 2: EUT Power by Adapter(TTT)+USB-A Mode 3: EUT Power by Adapter(LUCENT TRANS)+USB-A
Worst Mode	<input checked="" type="checkbox"/> Mode 1 <input checked="" type="checkbox"/> Mode 2 <input type="checkbox"/> Mode 3 <input type="checkbox"/> Mode 4

Radiated Emission Measurement Below 1G	
Test Condition	Radiated Emission Below 1G
Power supply Mode	Mode 1: EUT Power by Adapter(LUCENT TRANS)+Type-C Mode 2: EUT Power by Adapter(TTT)+USB-A Mode 3: EUT Power by Car charger(12V)+Type-C+Cradle Mode 4: EUT Power by Car charger(24V)+Type-C+Cradle Mode 5: EUT Power by Cradle(12V) Mode 6: EUT Power by Cradle(24V) Mode 7: EUT Power by Host System
Worst Mode	<input checked="" type="checkbox"/> Mode 1 <input type="checkbox"/> Mode 2 <input type="checkbox"/> Mode 3 <input type="checkbox"/> Mode 4

#### Remark:

1. The worst mode was record in this test report.
2. AC power line conducted emission were performed the EUT transmit at the highest output power channel as worse case.
3. EUT pre-scanned in three axis ,X,Y, Z and two polarity, for radiated measurement. The worst case(Y-Plane) were recorded in this report.

## 4. TEST SUMMARY

FCC Standard Sec.	IC Standard Sec.	Chapter	Test Item	Result
15.203	RSS-GEN Sec. 6.8	2	Antenna Requirement	Pass
15.215	RSS-GEN Sec 6.7	7.1	Occupied Bandwidth (99%) and 20dB Bandwidth	Pass
15.225 (a,b,c,d) 15.209 15.205	Sec B.6, a RSS-GEN Sec 8.9 / 8.10	7.2	Radiated Emissions	Pass
15.255 (e)	Sec B.6, b	7.3	Frequency Stability	Pass
15.207	RSS-GEN Sec. 8.8	7.4	AC Power-line Conducted Emission	Pass

## 5. INSTRUMENT CALIBRATION

### 5.1 MEASURING INSTRUMENT CALIBRATION

The measuring equipment, which was utilized in performing the tests documented herein, has been calibrated in accordance with the manufacturer's recommendations for utilizing calibration equipment, which is traceable to recognized national standards.

### 5.2 MEASUREMENT EQUIPMENT USED

#### Equipment Used for Emissions Measurement

Conducted EN300330					
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due
Loop Probe	LANGER EMV-TECHNIK	RF-R 50-1	02-2644	2024-01-02	2025-01-01
Constant Temperature Humidity Chamber	TERCHY	MHG-150LF	930619	2023-10-26	2024-10-25
EXA Signal Analyzer	Keysight	N9030B	MY62291089	2023-10-13	2024-10-12
Software	N/A				

966A Radiated Below 30MHz					
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due
Signal Analyzer	KEYSIGHT	N9010A	MY52220817	2024-03-15	2025-03-14
Active Loop Antenna	SCHWARZBECK	FMZB 1513-60	1513-60-028	2023-12-13	2024-12-12
Thermo-Hygro Meter	WISEWIND	1206	D07	2023-12-07	2024-12-06
Bi-Log Antenna	Sunol Sciences	JB3	A030105	2023-08-08	2024-08-07
Preamplifier	EMEC	EM330	060609	2024-02-21	2025-02-20
Cable	Huber+Suhner	104PEA	20995+21000+182330	2024-02-21	2025-02-20
Turn Table	CCS	CC-T-1F	N/A	N.C.R	N.C.R
Controller	CCS	CC-C-1F	N/A	N.C.R	N.C.R
Antenna Tower	CCS	CC-A-1F	N/A	N.C.R	N.C.R
Site Validation	CCS	966A	N/A	2023-07-10	2024-07-09
Software	e3 V9-210616c				

#### Remark:

- Each piece of equipment is scheduled for calibration once a year.
- N.C.R. = No Calibration Request.

AC Mains Conduction					
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due
EMI Test Receiver	R&S	ESCI	100064	2024-06-14	2025-06-13
LISN	TESEQ	LN2-16N	22012	2024-02-29	2025-02-27
Cable	Woken	SFL402	185A	2024-07-08	2025-07-07
Software	e3 V6-110812				

**Remark:**

1. Each piece of equipment is scheduled for calibration once a year.
2. N.C.R. = No Calibration Request.

### 5.3 MEASUREMENT UNCERTAINTY

PARAMETER	UNCERTAINTY
AC Powerline Conducted Emission	$\pm 2.213$ dB
Channel Bandwidth	$\pm 2.7\%$
Frequency Stability	$\pm 0.03$ ppm
Radiated Emission_9kHz-30MHz	$\pm 3.761$ dB
Radiated Emission_30MHz-200MHz	$\pm 3.473$ dB
Radiated Emission_200MHz-1GHz	$\pm 3.946$ dB

**Remark:** This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

### 5.4 FACILITIES AND TEST LOCATION

All measurement facilities used to collect the measurement data are located at No.11, Wugong 6th Rd., Wugu Dist., New Taipei City, Taiwan.

CAB identifier: TW1309

Test site	Test Engineer	Remark
AC Conduction Room	Ben Yang	-
Radiation	Tony Chao 、Ray Lin	-
RF Conducted	Marco Chan	-

**Remark:** The lab has been recognized as the FCC accredited lab under the KDB 974614 D01 and is listed in the FCC public Access Link (PAL) database, FCC Registration No. :444940, the FCC Designation No.:TW1309

## 6. SETUP OF EQUIPMENT UNDER TEST

### 6.1 SETUP CONFIGURATION OF EUT

See test photographs attached in Appendix A for the actual connections between EUT and support equipment.

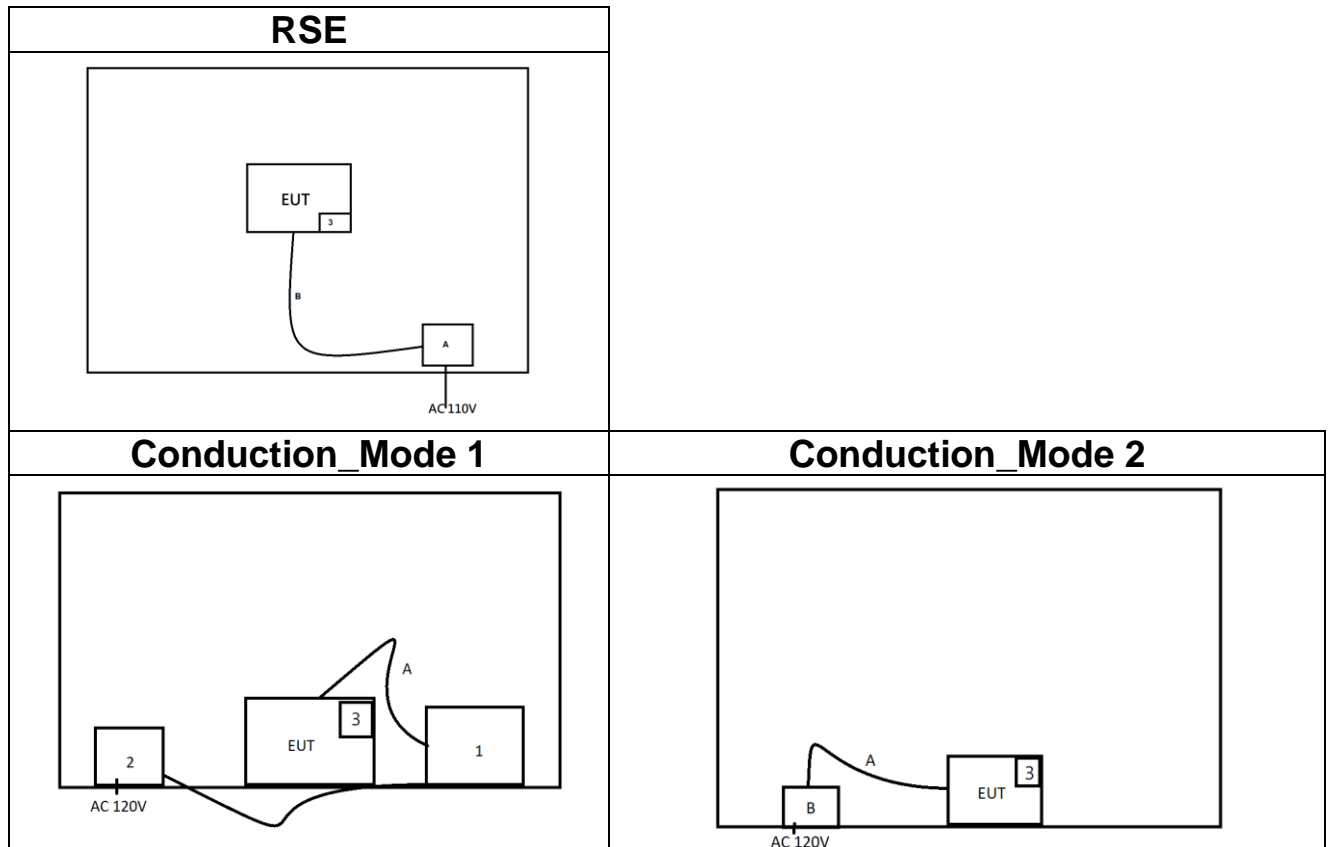
### 6.2 SUPPORT EQUIPMENT

EUT Accessories Equipment						
No.	Equipment	Brand	Model	Series No.	FCC ID	IC
	N/A					

Support Equipment (RSE)					
No.	Equipment	Brand	Model	Series No.	FCC ID
1	NB(D)	Lenovo	ThinkPad X260	N/A	N/A
2	Adapter	Lenovo	ADLX45DLC3A	N/A	N/A
3	Proximity card	Easycard	N/A	N/A	N/A
A	Adapter	LUCNENT TRANS	1A52-PD20W	442110 000191	N/A
B	Type-C Cable	N/A	N/A	N/A	N/A

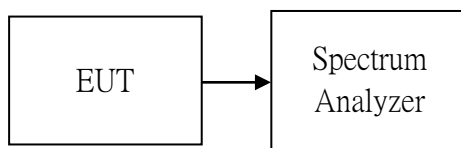
Support Equipment (Conduction)					
No.	Equipment	Brand	Model	Series No.	FCC ID
1	NB(D)	Lenovo	ThinkPad X260	N/A	N/A
2	Adapter	Lenovo	ADLX45DLC3A	N/A	N/A
3	Proximity card	Easycard	N/A	N/A	N/A
A	Type-C Cable	N/A	N/A	N/A	N/A
B	Adapter	TTT	MSS050200BI	N/A	N/A

## 6.3 SETUP CONFIGURATION OF EUT



## 7. FCC PART 15.225 REQUIREMENTS & RSS-210 REQUIREMENTS

### 7.1 OCCUPIED BANDWIDTH(99%) AND 20 dB BANDWIDTH TEST CONFIGURATION



### 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 spectrum analyzer as RBW & VBW (RBW) shall be in the range of 1% to 5% of the actual occupied / x dB bandwidth (VBW) shall not be smaller than three times the RBW value.
4. Record the max. reading.

### TEST RESULTS

Compliance

**Temperature:** 22.1°C

**Test Date:** June 20, 2024

**Humidity:** 59% RH

**Tested by:** Marco Chan



Test Condition	Frequency(MHz)	Occupied Bandwidth 99% (kHz)	20 dB Bandwidth (kHz)
NFC	13.56	2.134	2.509

## Note

Because the measured signal adjusting the RBW per C63.10 would not be practical since measured bandwidth will always follow the RBW and the result will be approximately twice ~ three the RBW.

## Test Plot



## 7.2 FUNDAMENTAL AND RADIATED EMISSIONS

### 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 microvolts / 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 microvolts / 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 microvolts / 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, 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 ( $\mu$ V/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.

According to RSS 210 §B.6

The field strength of any emission shall not exceed the following limits:

- (a) 15.848 mV/m (84 dBμV/m) at 30 m, within the band 13.553-13.567 MHz;
- (b) 334 μV/m (50.5 dBμV/m) at 30 m, within the bands 13.410-13.553 MHz and 13.567-13.710 MHz;
- (c) 106 μV/m (40.5 dBμV/m) at 30 m, within the bands 13.110-13.410 MHz and 13.710-14.010 MHz; and
- (d) RSS-Gen general field strength limits for frequencies outside the band 13.110-14.010 MHz.

#### **Below 30 MHz**

Frequency	Magnetic field strength (H-Field) (μA/m)	Measurement Distance (metres)
9-490 kHz <small>Note 1</small>	6.37/F (F in kHz)	300
490-1,705 kHz	63.7/F (F in kHz)	30
1.705-30 MHz	0.08	30

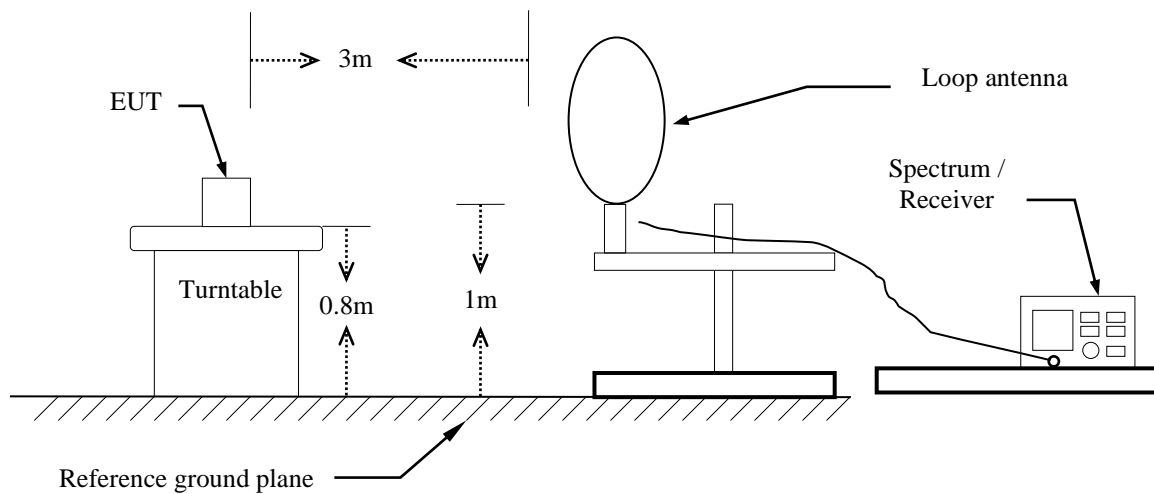
Note 1: The emission limits for the ranges 9-90 kHz and 110-490 kHz are based on measurements employing a linear average detector.

#### **Above 30 MHz**

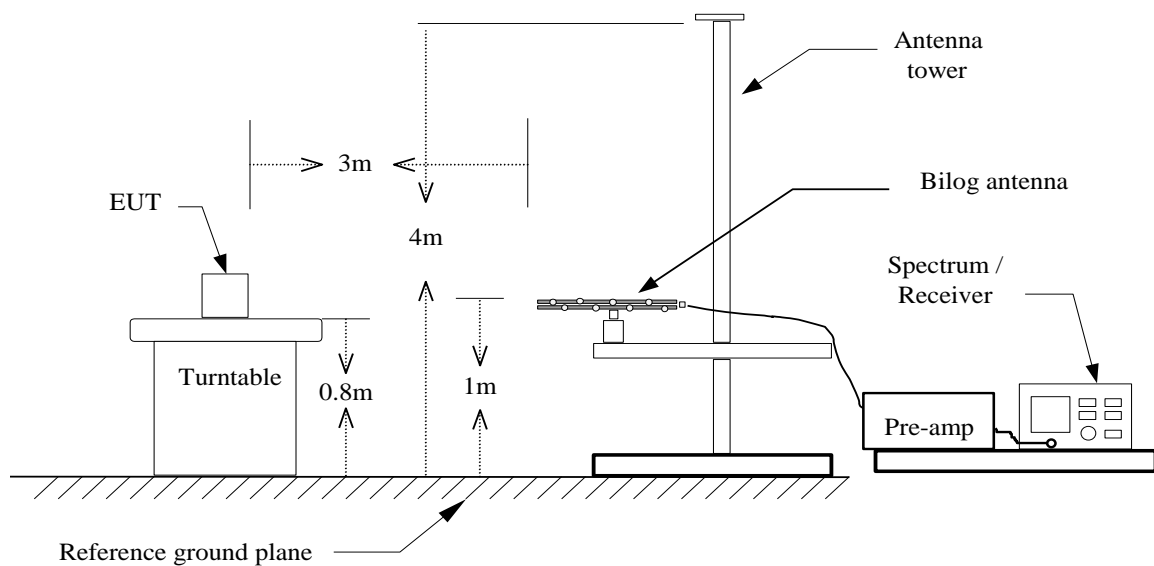
Frequency	Field strength (μV/m at 3 m)
30-88	100
88-216	150
216-960	200
Above 960	500

## Test Configuration

### 9kHz ~ 30MHz



### 30MHz ~ 1GHz



## **TEST PROCEDURE**

### **For 9kHz ~ 30MHz**

1. The EUT is placed on a turntable, which is 0.8m above ground plane.
2. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level.
3. EUT is set 3m away from the receiving antenna, The lower edge of the loop shall be 1 m above the ground then to find out the highest emissions.
4. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
5. Set the spectrum analyzer in the following setting as:  
9KHz-490KHz : RBW=200Hz / VBW=1kHz / Sweep=AUTO  
490KHz-30MHz : RBW=10kHz / VBW=30kHz / Sweep=AUTO
6. Repeat above procedures until the measurements for all frequencies are complete.

### **For 30MHz ~ 1GHz**

1. The EUT is placed on a turntable, which is 0.8m above ground plane.
2. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level.
3. EUT is set 3m away from the receiving antenna, which is varied from 1m to find out the highest emissions.
4. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
5. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
6. Set the spectrum analyzer in the following setting as:  
RBW=100kHz / VBW=300kHz / Sweep=AUTO
7. Repeat above procedures until the measurements for all frequencies are complete.

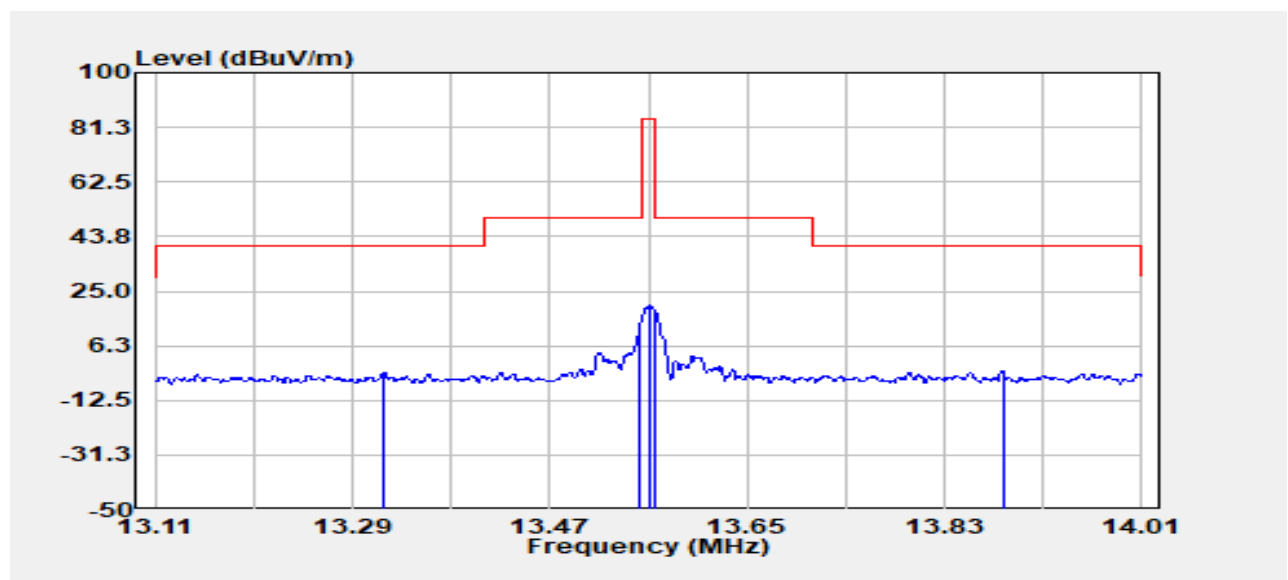
### **Remark :**

Although these tests were performed other than open area test site, adequate comparison measurements were confirmed against 30 m open are test site. Therefore sufficient tests were made to demonstrate that the alternative site produces results that correlate with the ones of tests made in an open field based on KDB 414788.

## Main

Project No :TM-2405000413P  
Operation Band :NFC  
Frequency :13.56 MHz  
Operation Mode :Bandedge  
EUT Pol :E1  
Setting :

Test Date :2024-07-04  
Temp./Humi. :24.6/57  
Antenna Pol. :Horizontal  
Engineer :Ray Li  
Test Chamber : 966A



Freq. MHz	Detector Mode	Spectrum Read Level @3m dBμV	Factor @3m dB	Actual FS @3m dBμV/m	Factor @30m&300m dB	Actual FS @30m&300m dBμV/m	Limit dBμV/m	Margin dB
13.32	Peak	14.94	22.19	37.13	-40.00	-2.87	40.51	-43.37
13.55	Peak	31.08	22.22	53.3	-40.00	13.30	50.47	-37.17
13.56	Peak	37.76	22.22	59.98	-40.00	19.98	84.00	-64.02
13.57	Peak	35.76	22.22	57.98	-40.00	17.98	50.47	-32.49
13.88	Peak	15.07	22.25	37.32	-40.00	-2.68	40.51	-43.19

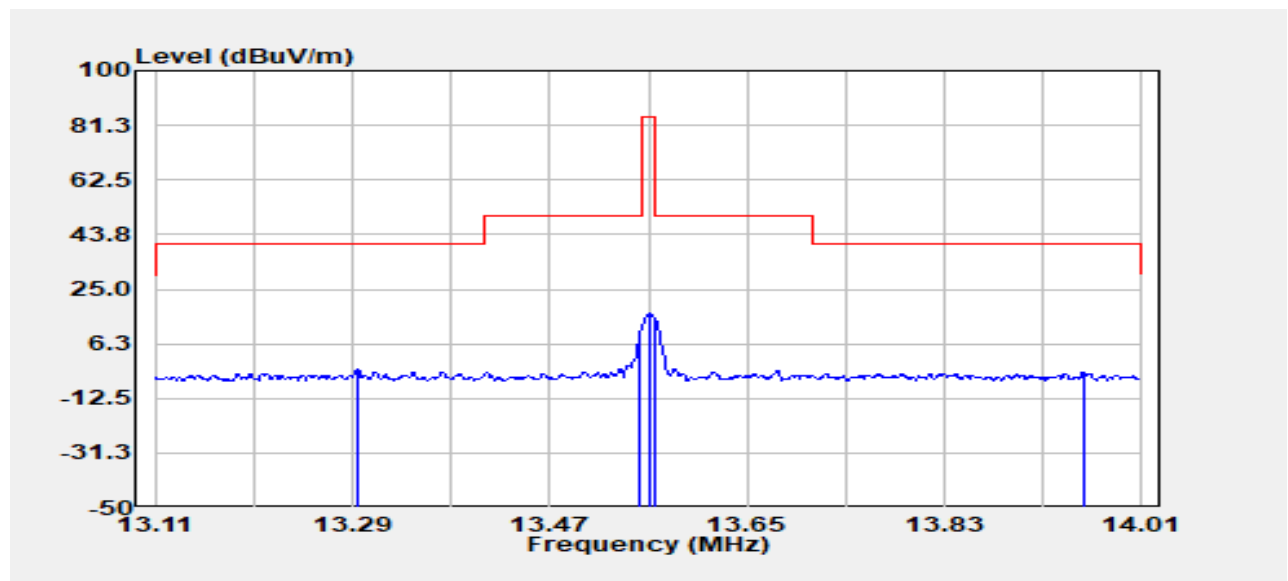
### Remark:

1. Radiated emissions measured were made with an instrument using peak/quasi-peak/average detector mode.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Margin (dB) = Result (dBuV/m) – Limit (dBuV/m).
4. Result=Read level+Factor@3m-Distance factor
5. Distance factor=40log(30m/3m)
6. Factor=antenna factor+cable loss

## Main

Project No :TM-2405000413P  
 Operation Band :NFC  
 Frequency :13.56 MHz  
 Operation Mode :Bandedge  
 EUT Pol :E1  
 Setting :

Test Date :2024-07-04  
 Temp./Humi. :24.6/57  
 Antenna Pol. :Vertical  
 Engineer :Ray Li  
 Test Chamber : 966A



Freq. MHz	Detector Mode	Spectrum Read Level @3m dBμV	Factor @3m dB	Actual FS @3m dBUV/m	Factor @30m&300m dB	Actual FS @30m&300m dBUV/m	Limit dBUV/m	Margin dB
13.29	Peak	15.48	22.19	37.66	-40.00	-2.34	40.51	-42.84
13.55	Peak	27.50	22.22	49.72	-40.00	9.72	50.47	-40.75
13.56	Peak	34.40	22.22	56.62	-40.00	16.62	84.00	-67.38
13.57	Peak	32.38	22.22	54.60	-40.00	14.60	50.47	-35.87
13.96	Peak	14.42	22.26	36.68	-40.00	-3.32	40.51	-43.82

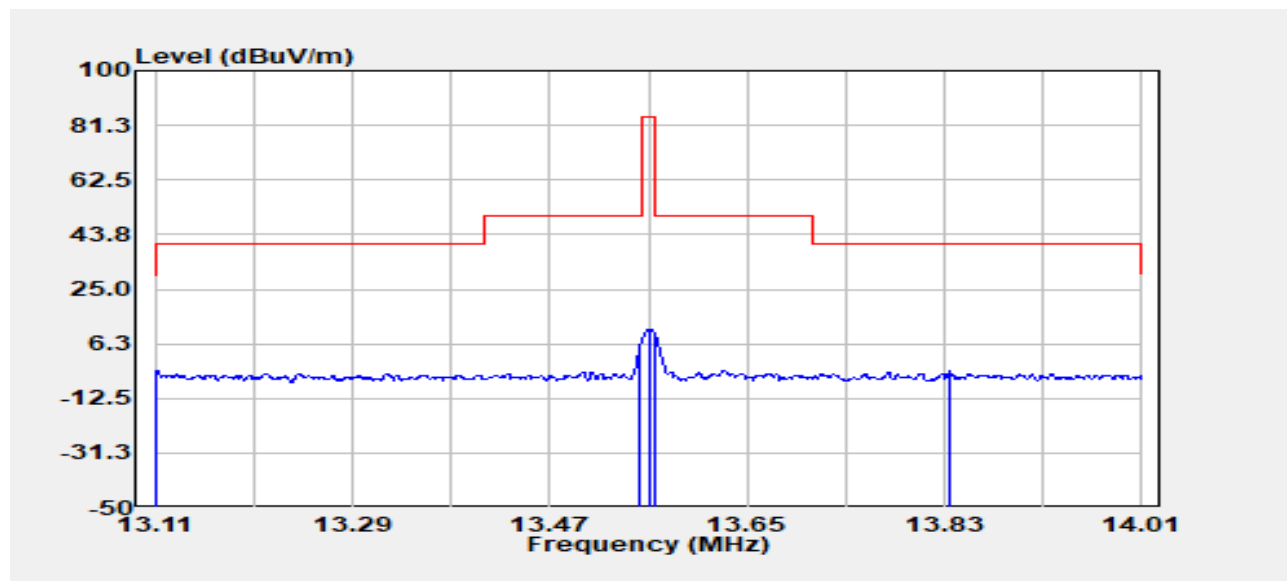
### Remark:

1. Radiated emissions measured were made with an instrument using peak/quasi-peak/average detector mode.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Margin (dB) = Result (dBUV/m) – Limit (dBUV/m).
4. Result=Read level+Factor@3m-Distance factor
5. Distance factor=40log(30m/3m)
6. Factor=antenna factor+cable loss

## Main

Project No :TM-2405000413P  
Operation Band :NFC  
Frequency :13.56 MHz  
Operation Mode :Bandedge  
EUT Pol :E1  
Setting :

Test Date :2024-07-04  
Temp./Humi. :24.6/57  
Antenna Pol. :Ground  
Engineer :Ray Li  
Test Chamber : 966A



Freq. MHz	Detector Mode	Spectrum Read Level @3m dBμV	Factor @3m dB	Actual FS @3m dBUV/m	Factor @30m&300m dB	Actual FS @30m&300m dBUV/m	Limit dBUV/m	Margin dB
13.11	Peak	14.83	22.16	36.99	-40.00	-3.01	40.51	-43.52
13.55	Peak	23.43	22.22	45.64	-40.00	5.64	50.47	-44.83
13.56	Peak	29.06	22.22	51.28	-40.00	11.28	84.00	-72.72
13.57	Peak	27.01	22.22	49.23	-40.00	9.23	50.47	-41.24
13.83	Peak	14.47	22.25	36.72	-40.00	-3.28	40.51	-43.78

### Remark:

1. Radiated emissions measured were made with an instrument using peak/quasi-peak/average detector mode.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
3. Margin (dB) = Result (dBUV/m) – Limit (dBUV/m).
4. Result=Read level+Factor@3m-Distance factor
5. Distance factor=40log(30m/3m)
6. Factor=antenna factor+cable loss



Report No.: TMWK2405001810KR

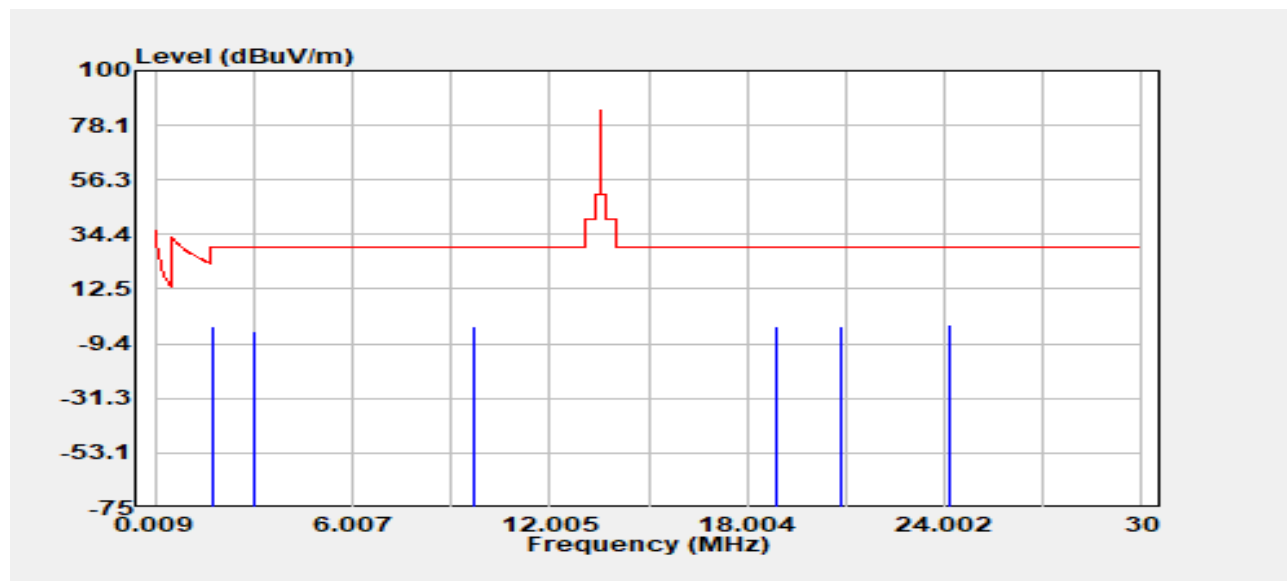
Page: 25 / 38

Rev.: 00

## 9kHz ~ 30MHz

Project No :TM-2405000413P  
Operation Band :NFC  
Frequency :13.56 MHz  
Operation Mode :TX  
EUT Pol :E1  
Setting :

Test Date :2024-07-04  
Temp./Humi. :24.6/57  
Antenna Pol. :Horizontal  
Engineer :Ray Li  
Test Chamber : 966A



Freq. MHz	Detector Mode	Spectrum Read Level @3m dBμV	Factor @3m dB	Actual FS @3m dBμV/m	Factor @30m&300m dB	Actual FS @30m&300m dBμV/m	Limit dBμV/m	Margin dB
1.76	Peak	17.80	19.64	37.44	-40.00	-2.56	29.54	-32.10
2.99	Peak	16.03	19.66	35.68	-40.00	-4.32	29.54	-33.86
9.71	Peak	15.80	21.70	37.49	-40.00	-2.51	29.54	-32.05
18.90	Peak	14.55	22.83	37.38	-40.00	-2.62	29.54	-32.16
20.89	Peak	14.54	22.94	37.48	-40.00	-2.52	29.54	-32.06
24.12	Peak	15.76	22.85	38.61	-40.00	-1.39	29.54	-30.93

### Remark:

- 9kHz to 490kHz Limit(@3m) = 2400(F/kHz)  
490kHz to 1.705MHz Limit (@3m) = 2400(F/kHz)  
1.705MHz to 30MHz Limit (@3m) = 29.54
- Distance factor=40log(300m/3m)@9-490kHz ; 40log(30m/3m)@490kHz-30MHz
- Result=Read level+Factor@3m-Distance factor

Report No.: TMWK2405001810KR

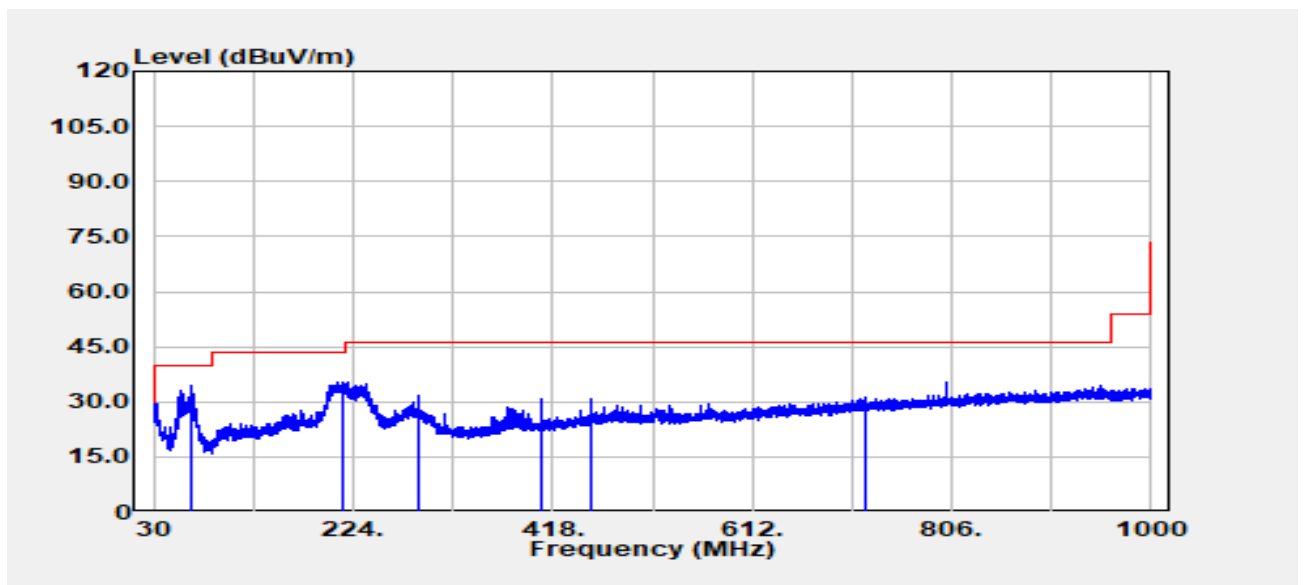
Page: 26 / 38

Rev.: 00

## 30MHz ~ 1GHz

Project No :TM-2405000413P  
Operation Band :NFC  
Frequency :13.56 MHz  
Operation Mode :TX  
EUT Pol :E1  
Setting :

Test Date :2024-07-04  
Temp./Humi. :24.6/57  
Antenna Pol. :VERTICAL  
Engineer :Tony Chao  
Test Chamber : 966A



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Read Level dBμV	Factor dB	Actual FS dBμV/m	Limit dBμV/m	Margin dB
66.38	Peak	49.73	-15.45	34.29	40.00	-5.71
213.45	Peak	47.41	-11.95	35.46	43.50	-8.04
288.02	Peak	40.64	-8.76	31.88	46.00	-14.12
407.94	Peak	36.28	-5.50	30.78	46.00	-15.22
455.95	Peak	34.81	-4.21	30.60	46.00	-15.40
722.70	Peak	31.01	0.37	31.38	46.00	-14.62

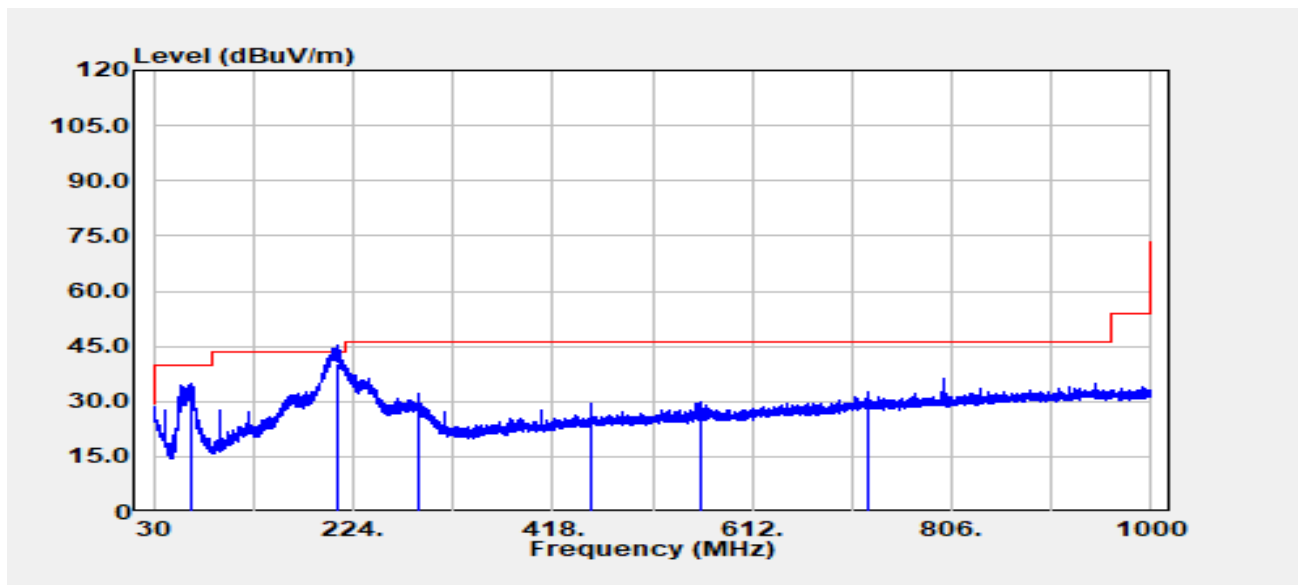
Report No.: TMWK2405001810KR

Page: 27 / 38

Rev.: 00

Project No :TM-2405000413P  
Operation Band :NFC  
Frequency :13.56 MHz  
Operation Mode :TX  
EUT Pol :E1  
Setting :

Test Date :2024-07-04  
Temp./Humi. :24.6/57  
Antenna Pol. :HORIZONTAL  
Engineer :Tony Chao  
Test Chamber : 966A



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Read Level dBuV	Factor dB	Actual FS dBuV/m	Limit dBuV/m	Margin dB
66.86	Peak	50.40	-15.31	35.09	40.00	-4.91
209.21	QP	52.57	-12.20	40.37	43.50	-3.13
288.02	Peak	40.76	-8.76	32.00	46.00	-14.00
456.07	Peak	33.82	-4.21	29.61	46.00	-16.39
562.53	Peak	32.00	-2.33	29.67	46.00	-16.33
724.52	Peak	32.20	0.37	32.56	46.00	-13.44

## 7.3 FREQUENCY STABILITY

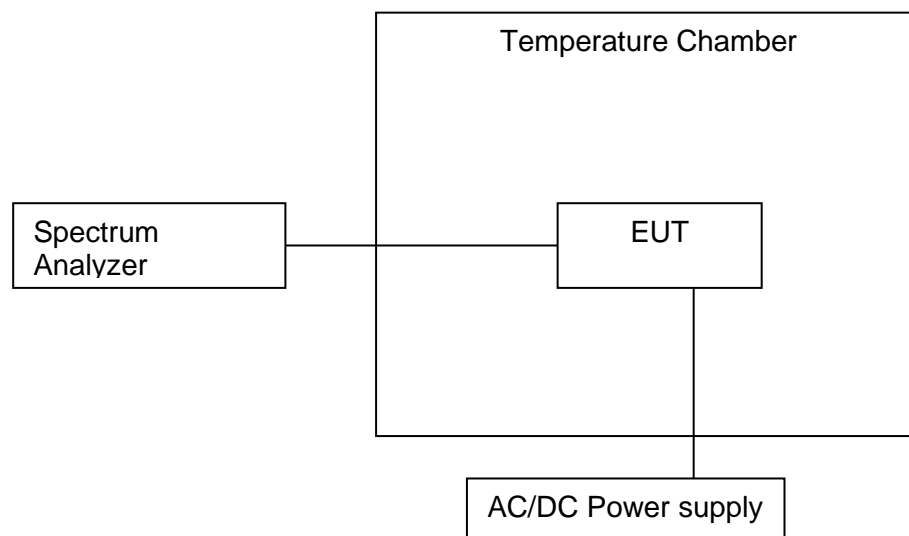
### LIMIT

According to §15.225(e) and RSS-210, B.6,

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

**Temperature and Voltage Measurement (under normal and extreme test conditions)**



### TEST PROCEDURE

1. Turn the EUT off, and place it inside the environmental temperature chamber.
2. Set the temperature control on the chamber to the highest specified in the regulatory requirements for the type of device and allow the oscillator heater and the chamber temperature to stabilize.
3. Set the spectrum analyzer as RBW=1kHz, VBW = RBW, Span = 200kHz, Sweep = auto.
4. Turn the EUT on and record the operating frequency at startup and two, five, and ten minutes after the EUT is energized.
5. Switch off the EUT and Lower the chamber temperature by not more than 10 °C and allow the temperature inside the chamber to stabilize.
6. Mark the peak frequency and measure the frequency tolerance using frequency counter function.
7. Repeat step 4 through step 6 down to the specified temperature.

## TEST RESULTS

### Compliance

**Temperature:** 22.1°C

**Test Date:** June 20, 2024

**Humidity:** 59% RH

**Tested by:** Marco Chan

## TEST DATA

Startup				
A. Temperature Variation				
Power Supply	Environment	Frequency	Delta (kHz)	Limit (kHz)
Vdc	Temperature (°C)	(MHz)		
12	-20	13.5611559	1.15590	+/- 1.356
12	-10	13.5611584	1.15840	+/- 1.356
12	0	13.5611696	1.16960	+/- 1.356
12	10	13.5611674	1.16740	+/- 1.356
12	20	13.5611600	1.16000	+/- 1.356
12	30	13.5611674	1.16740	+/- 1.356
12	40	13.5611612	1.16120	+/- 1.356
12	50	13.5611515	1.15150	+/- 1.356
B. Supply Voltage Variation				
Power Supply	Environment	Frequency	Delta (kHz)	Limit (kHz)
Vdc	Temperature (°C)	(MHz)		
13.8	20	13.5611571	1.15710	+/- 1.356
12	20	13.5611600	1.16000	+/- 1.356
10.2	20	13.5611608	1.16080	+/- 1.356

**Note:** Extreme temperatures are declared by the manufacturer

2 minutes				
A. Temperature Variation				
Power Supply	Environment	Frequency	Delta (kHz)	Limit (kHz)
Vdc	Temperature (°C)	(MHz)		
12	-20	13.5611690	1.16900	+/- 1.356
12	-10	13.5611680	1.16800	+/- 1.356
12	0	13.5611540	1.15400	+/- 1.356
12	10	13.5611598	1.15980	+/- 1.356
12	20	13.5611689	1.16890	+/- 1.356
12	30	13.5611572	1.15720	+/- 1.356
12	40	13.5611524	1.15240	+/- 1.356
12	50	13.5611638	1.16380	+/- 1.356
B. Supply Voltage Variation				
Power Supply	Environment	Frequency	Delta (kHz)	Limit (kHz)
Vdc	Temperature (°C)	(MHz)		
13.8	20	13.5611634	1.16340	+/- 1.356
12	20	13.5611689	1.16890	+/- 1.356
10.2	20	13.5611648	1.16480	+/- 1.356

**Note:** Extreme temperatures are declared by the manufacturer

5 minutes				
A. Temperature Variation				
Power Supply	Environment	Frequency	Delta (kHz)	Limit (kHz)
Vdc	Temperature (°C)	(MHz)		
12	-20	13.5611588	1.15880	+/- 1.356
12	-10	13.5611541	1.15410	+/- 1.356
12	0	13.5611572	1.15720	+/- 1.356
12	10	13.5611665	1.16650	+/- 1.356
12	20	13.5611551	1.15510	+/- 1.356
12	30	13.5611532	1.15320	+/- 1.356
12	40	13.5611668	1.16680	+/- 1.356
12	50	13.5611550	1.15500	+/- 1.356
B. Supply Voltage Variation				
Power Supply	Environment	Frequency	Delta (kHz)	Limit (kHz)
Vdc	Temperature (°C)	(MHz)		
13.8	20	13.5611534	1.15340	+/- 1.356
12	20	13.5611551	1.15510	+/- 1.356
10.2	20	13.5611656	1.16560	+/- 1.356

**Note:** Extreme temperatures are declared by the manufacturer

10 minutes				
A. Temperature Variation				
Power Supply	Environment	Frequency	Delta (kHz)	Limit (kHz)
Vdc	Temperature (°C)	(MHz)		
12	-20	13.5611673	1.16730	+/- 1.356
12	-10	13.5611610	1.16100	+/- 1.356
12	0	13.5611500	1.15000	+/- 1.356
12	10	13.5611518	1.15180	+/- 1.356
12	20	13.5611584	1.15840	+/- 1.356
12	30	13.5611675	1.16750	+/- 1.356
12	40	13.5611513	1.15130	+/- 1.356
12	50	13.5611696	1.16960	+/- 1.356
B. Supply Voltage Variation				
Power Supply	Environment	Frequency	Delta (kHz)	Limit (kHz)
Vdc	Temperature (°C)	(MHz)		
13.8	20	13.5611683	1.16830	+/- 1.356
12	20	13.5611584	1.15840	+/- 1.356
10.2	20	13.5611509	1.15090	+/- 1.356

**Note:** Extreme temperatures are declared by the manufacturer

## 7.4 POWERLINE CONDUCTED EMISSIONS

### LIMIT

According to §15.207(a) and RSS-Gen §8.8 for an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the following table, as measured using a 50  $\mu$ H/50 ohms line impedance stabilization network (LISN). Compliance with the provisions of this paragraph shall be based on the measurement of the radio frequency voltage between each power line and ground at the power terminal. The lower limit applies at the boundary between the frequency ranges.

Frequency Range (MHz)	Limits (dB $\mu$ V)	
	Quasi-peak	Average
0.15 to 0.50	66 to 56*	56 to 46*
0.50 to 5	56	46
5 to 30	60	50

\* Decreases with the logarithm of the frequency.

### TEST PROCEDURE

1. The EUT was placed on a table, which is 0.8m above ground plane.
2. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
3. Repeat above procedures until all frequency measured were complete.

### TEST RESULTS

The initial step in collecting conducted data is a spectrum analyzer peak scan of the measurement range. Significant peaks are then marked as shown on the following data page, and these signals are then quasi-peaked and Average measurement records.

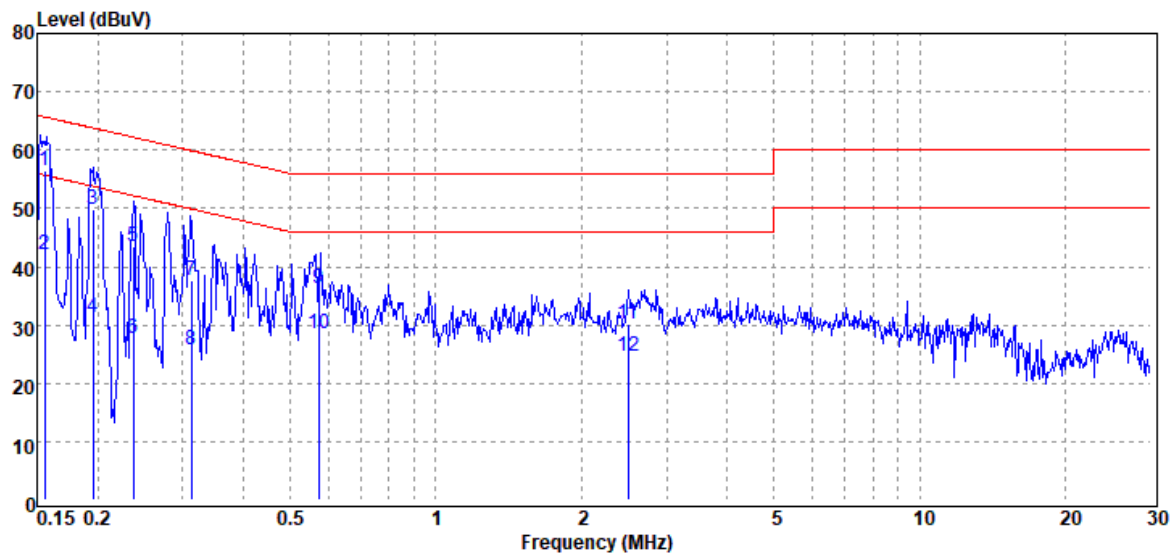


Report No.: TMWK2405001810KR

Rev.: 00

Project No : TM-2405000413P  
Operation Mode : NFC  
Test Chamber : Conduction  
Probe : LINE  
Note : Mode 1

Test Date : 2024-07-08  
Temp./Humi. : 23.4°C / 54%  
Engineer : Ben Yang  
Test Voltage : AC 120V/60Hz



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Read Level dBμV	Factor dB	Actual FS dBμV	Limit dBμV	Margin dB
0.156	QP	56.20	0.15	56.35	65.69	-9.34
0.156	Average	41.90	0.15	42.05	55.69	-13.64
0.196	QP	49.38	0.37	49.75	63.78	-14.03
0.196	Average	30.88	0.37	31.25	53.78	-22.53
0.237	QP	42.96	0.39	43.35	62.20	-18.85
0.237	Average	27.27	0.39	27.66	52.20	-24.54
0.313	QP	37.24	0.38	37.62	59.90	-22.28
0.313	Average	25.26	0.38	25.64	49.90	-24.26
0.574	QP	35.82	0.38	36.20	56.00	-19.80
0.574	Average	28.21	0.38	28.59	46.00	-17.41
2.501	QP	29.93	0.20	30.13	56.00	-25.87
2.501	Average	24.41	0.20	24.61	46.00	-21.39

Note: 1. Actual FS= Spectrum Read Level + Factor

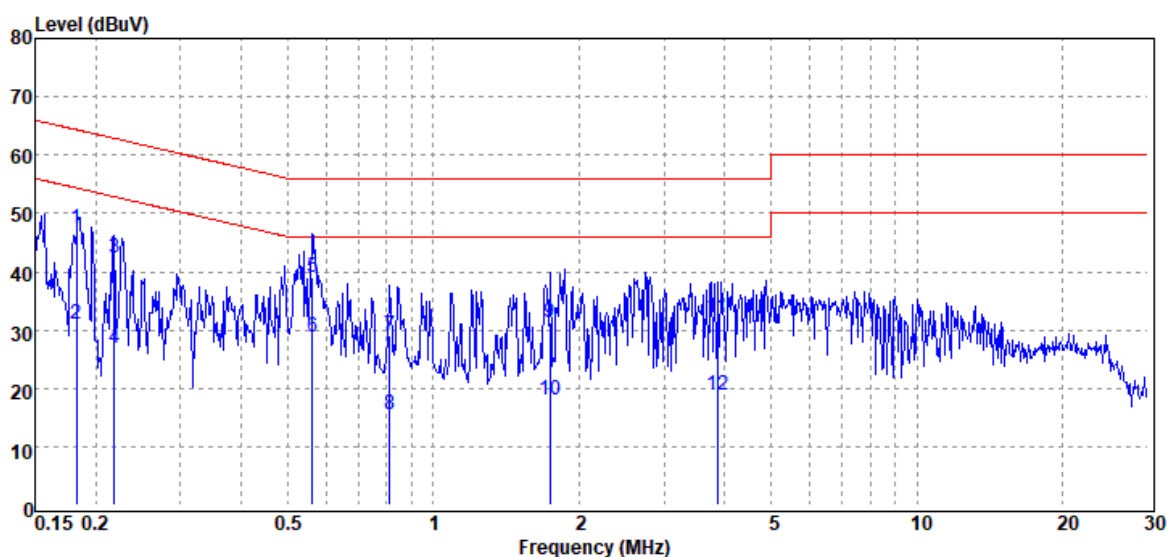
Note: 2. Margin= Actual FS - Limit

Report No.: TMWK2405001810KR

Rev.: 00

Project No : TM-2405000413P  
Operation Mode : NFC  
Test Chamber : Conduction  
Probe : NEUTRAL  
Note : Mode 1

Test Date : 2024-07-08  
Temp./Humi. : 23.4°C / 54%  
Engineer : Ben Yang  
Test Voltage : AC 120V/60Hz



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Read Level dBμV	Factor dB	Actual FS dBμV	Limit dBμV	Margin dB
0.183	QP	47.19	0.28	47.47	64.35	-16.88
0.183	Average	30.67	0.28	30.95	54.35	-23.40
0.219	QP	41.91	0.36	42.27	62.87	-20.60
0.219	Average	26.51	0.36	26.87	52.87	-26.00
0.562	QP	38.77	0.35	39.12	56.00	-16.88
0.562	Average	28.55	0.35	28.90	46.00	-17.10
0.811	QP	28.70	0.36	29.06	56.00	-26.94
0.811	Average	15.15	0.36	15.51	46.00	-30.49
1.740	QP	31.16	0.16	31.32	56.00	-24.68
1.740	Average	17.81	0.16	17.97	46.00	-28.03
3.873	QP	31.87	0.21	32.08	56.00	-23.92
3.873	Average	18.58	0.21	18.79	46.00	-27.21

Note: 1. Actual FS= Spectrum Read Level + Factor

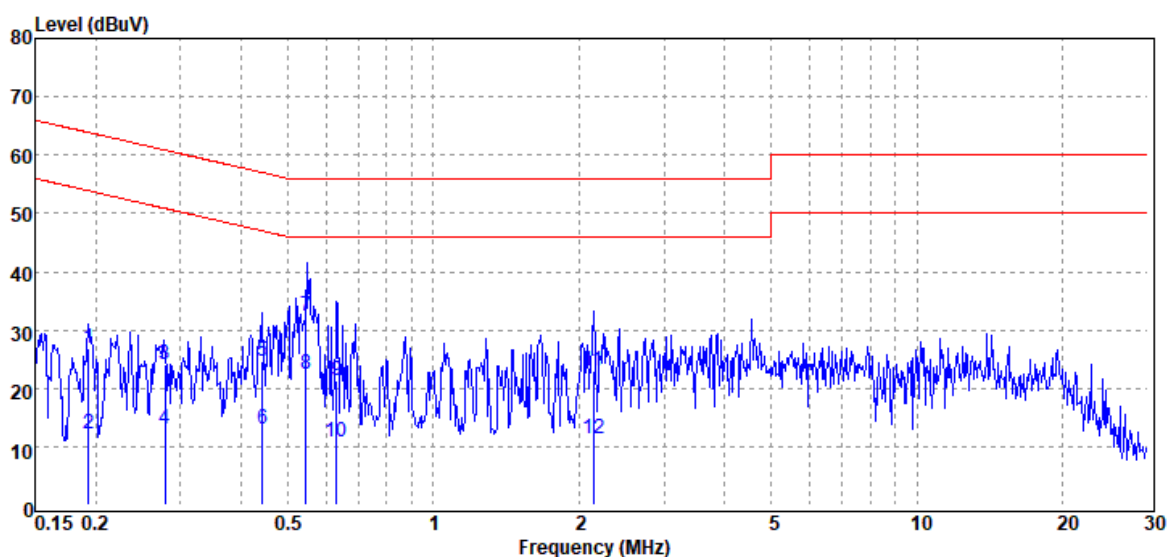
Note: 2. Margin= Actual FS - Limit

Report No.: TMWK2405001810KR

Page: 35 / 38  
Rev.: 00

Project No : TM-2405000413P  
Operation Mode : NFC  
Test Chamber : Conduction  
Probe : LINE  
Note : Mode 2

Test Date : 2024-07-10  
Temp./Humi. : 23.4°C / 54%  
Engineer : Ben Yang  
Test Voltage : AC 120V/60Hz



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Read Level dBμV	Factor dB	Actual FS dBμV	Limit dBμV	Margin dB
0.194	QP	26.63	0.36	26.99	63.88	-36.89
0.194	Average	11.91	0.36	12.27	53.88	-41.61
0.279	QP	23.66	0.39	24.05	60.86	-36.81
0.279	Average	12.54	0.39	12.93	50.86	-37.93
0.443	QP	24.30	0.38	24.68	57.00	-32.32
0.443	Average	12.59	0.38	12.97	47.00	-34.03
0.546	QP	32.12	0.38	32.50	56.00	-23.50
0.546	Average	22.02	0.38	22.40	46.00	-23.60
0.630	QP	20.98	0.38	21.36	56.00	-34.64
0.630	Average	10.45	0.38	10.83	46.00	-35.17
2.145	QP	22.84	0.18	23.02	56.00	-32.98
2.145	Average	11.06	0.18	11.24	46.00	-34.76

Note: 1. Actual FS= Spectrum Read Level + Factor

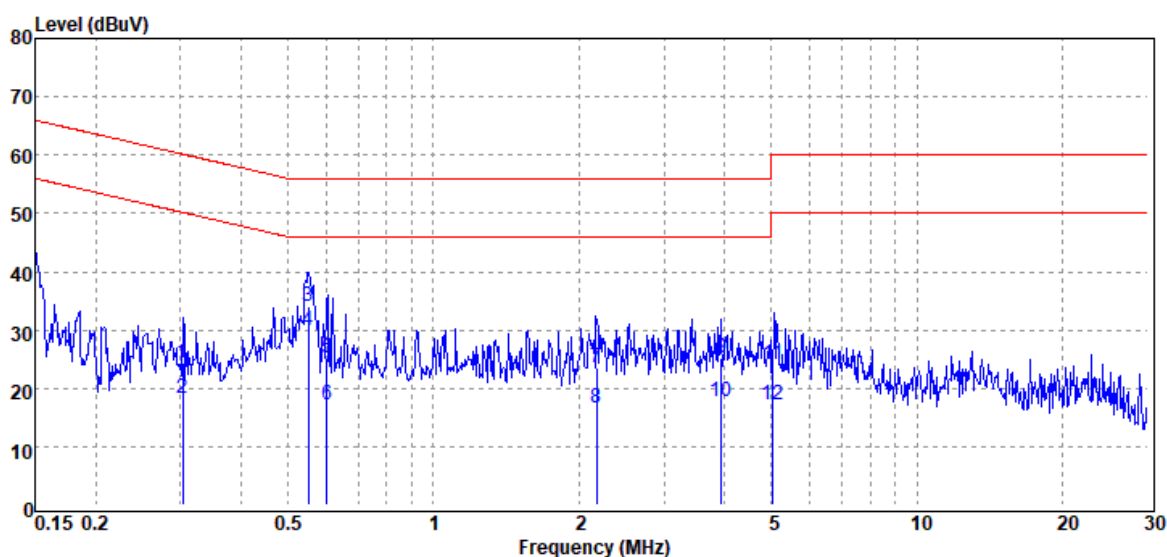
Note: 2. Margin= Actual FS - Limit

Report No.: TMWK2405001810KR

Rev.: 00

Project No : TM-2405000413P  
Operation Mode : NFC  
Test Chamber : Conduction  
Probe : NEUTRAL  
Note : Mode 2

Test Date : 2024-07-10  
Temp./Humi. : 23.4°C / 54%  
Engineer : Ben Yang  
Test Voltage : AC 120V/60Hz



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Read Level dBμV	Factor dB	Actual FS dBμV	Limit dBμV	Margin dB
0.303	QP	24.02	0.35	24.37	60.16	-35.79
0.303	Average	18.00	0.35	18.35	50.16	-31.81
0.551	QP	33.61	0.35	33.96	56.00	-22.04
0.551	Average	29.62	0.35	29.97	46.00	-16.03
0.601	QP	24.82	0.35	25.17	56.00	-30.83
0.601	Average	16.68	0.35	17.03	46.00	-28.97
2.175	QP	23.23	0.16	23.39	56.00	-32.61
2.175	Average	16.42	0.16	16.58	46.00	-29.42
3.940	QP	24.89	0.21	25.10	56.00	-30.90
3.940	Average	17.49	0.21	17.70	46.00	-28.30
5.040	QP	23.78	0.24	24.02	60.00	-35.98
5.040	Average	16.99	0.24	17.23	50.00	-32.77

Note: 1. Actual FS= Spectrum Read Level + Factor

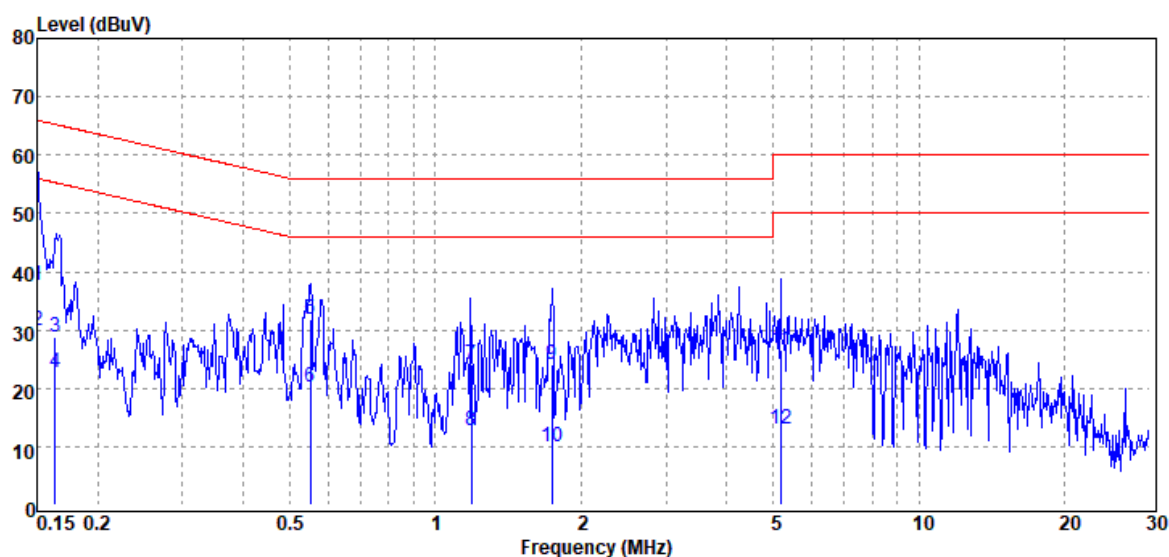
Note: 2. Margin= Actual FS - Limit

Report No.: TMWK2405001810KR

Rev.: 00

Project No : TM-2405000413P  
Operation Mode : NFC  
Test Chamber : Conduction  
Probe : LINE  
Note : Mode 2

Test Date : 2024-07-10  
Temp./Humi. : 23.4°C / 54%  
Engineer : Ben Yang  
Test Voltage : AC 230V/60Hz



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Read Level dBμV	Factor dB	Actual FS dBμV	Limit dBμV	Margin dB
0.150	QP	37.53	0.12	37.65	65.99	-28.34
0.150	Average	29.66	0.12	29.78	55.99	-26.21
0.163	QP	28.46	0.20	28.66	65.29	-36.63
0.163	Average	22.51	0.20	22.71	55.29	-32.58
0.552	QP	31.54	0.38	31.92	56.00	-24.08
0.552	Average	19.72	0.38	20.10	46.00	-25.90
1.188	QP	23.86	0.16	24.02	56.00	-31.98
1.188	Average	12.70	0.16	12.86	46.00	-33.14
1.741	QP	23.93	0.18	24.11	56.00	-31.89
1.741	Average	9.66	0.18	9.84	46.00	-36.16
5.191	QP	26.30	0.27	26.57	60.00	-33.43
5.191	Average	12.84	0.27	13.11	50.00	-36.89

Note: 1. Actual FS= Spectrum Read Level + Factor

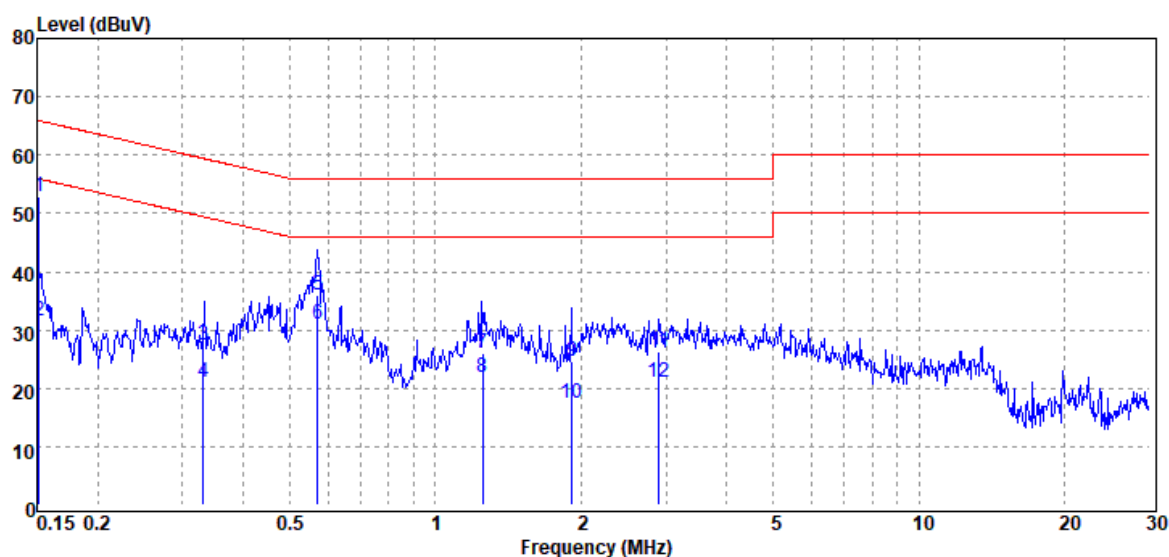
Note: 2. Margin= Actual FS - Limit

Report No.: TMWK2405001810KR

Rev.: 00

Project No : TM-2405000413P  
Operation Mode : NFC  
Test Chamber : Conduction  
Probe : NEUTRAL  
Note : Mode 2

Test Date : 2024-07-10  
Temp./Humi. : 23.4°C / 54%  
Engineer : Ben Yang  
Test Voltage : AC 230V/60Hz



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Read Level dBμV	Factor dB	Actual FS dBμV	Limit dBμV	Margin dB
0.151	QP	52.66	0.11	52.77	65.92	-13.15
0.151	Average	31.38	0.11	31.49	55.92	-24.43
0.332	QP	27.11	0.35	27.46	59.41	-31.95
0.332	Average	20.66	0.35	21.01	49.41	-28.40
0.571	QP	35.68	0.35	36.03	56.00	-19.97
0.571	Average	30.62	0.35	30.97	46.00	-15.03
1.254	QP	25.93	0.14	26.07	56.00	-29.93
1.254	Average	21.65	0.14	21.79	46.00	-24.21
1.916	QP	24.59	0.16	24.75	56.00	-31.25
1.916	Average	17.30	0.16	17.46	46.00	-28.54
2.894	QP	26.03	0.19	26.22	56.00	-29.78
2.894	Average	20.76	0.19	20.95	46.00	-25.05

Note: 1. Actual FS= Spectrum Read Level + Factor

Note: 2. Margin= Actual FS - Limit

- End of Test Report -