

# ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT



**Applicant:** Dell Inc.  
One Dell Way, Round Rock, Texas 78682, USA  
**Manufacturer:** Dell Inc.  
One Dell Way, Round Rock, Texas 78682, USA  
**Product Name:** RFID 13.56MHz Wireless Module  
**Brand Name:** DELL  
**Model No.:** DWRFID2402  
**Report Number:** TERF2405001271E2  
**FCC ID** E2K-DWRFID2402  
**IC:** 1514B-DWRFID2402  
**Date of EUT Received:** April 25, 2024  
**Date of Test:** May 06, 2024 ~ May 22, 2024  
**Issue Date:** July 11, 2024

Approved By

Jay Lin

## We hereby certify that:

The above equipment was tested by SGS Taiwan Ltd. Central RF Lab. 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 EUT comply with FCC rule part §15.225, ISSED RSS-210.

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

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## Revision History

Report Number	Revision	Description	Issue Date	Revised By	Remark
TERF2405001271E2	00	Original.	July 11, 2024	Kate Lai	

**Note:**

- 1、The remark "" indicates modification of the report upon requests from certification body.

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## 1 GENERAL INFORMATION

### 1.1 Product Description

Product Name:	RFID 13.56MHz Wireless Module
Brand Name:	DELL
Model No.:	DWRFID2402
Hardware Version:	A00
Firmware Version:	6.0.9.5
EUT Series No.:	4VJ8BT3
Power Supply:	11.4 Vdc from Rechargeable Li-ion Battery or 5 / 9 / 10 / 12 / 15 / 20 Vdc from AC/DC Adapter
Test Software (Name/Version)	NFC Spy/v1.2.0.3
Host Information:	Product Name: Notebook Computer Brand Name: DELL Model No.: P149G002

### 1.2 RF specification

Radio Technology:	NFC	
Operating Frequency	13.56MHz	
Transmit Power	Type A	17.47dBuV/m at 30m
	Type B	14.44 dBuV/m at 30m
	Type F	14.62 dBuV/m at 30m
	Type V	10.61 dBuV/m at 30m
Number of Channels	1	
Modulation Type	ASK	
Antenna Type	Loop Antenna	

**Note:** Antenna information is provided by the applicant.

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### 1.3 Test Methodology

FCC Part 15, Subpart C §15.225

RSS-Gen, Issue 5 April 2018, Amendment 2 (February 2021)

RSS-210 Annex B.2 Issue 10 December 20, Amendment (April 2020)19.

ANSI C63.10:2013.

### 1.4 Test Facility

Laboratory	Test Site Address	Test Site Name	FCC Designation number	IC CAB identifier
SGS Taiwan Ltd. Central RF Lab. (TAF code 3702)	No.134, Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan.	SAC 1	TW0027	TW3702
		SAC 2		
		SAC 3		
		Conduction 1		
		Conducted 1		
		Conducted 2		
		Conducted 3		
		Conducted 4		
		Conducted 5		
		Conducted 6		
	No.2, Keji 1st Rd., Guishan District, Taoyuan City, Taiwan 333	Conduction C	TW0028	
		SAC C		
		SAC D		
		SAC G		
		Conducted A		
		Conducted B		
		Conducted C		
		Conducted D		
		Conducted E		
		Conducted F		
Conducted G				

**Note:** Test site name is remarked on the equipment list in each section of this report as an indication where measurements occurred in specific test site and address.

### 1.5 Special Accessories

There is no other accessory attached. This is the worst case condition.

### 1.6 Equipment Modifications

There was no modification incorporated into the EUT.

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## 2 SYSTEM TEST CONFIGURATION

### 2.1 EUT Configuration

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

### 2.2 EUT Exercise

The Transmitter was operated in the normal operating mode. The Tx frequency was fixed which was for the purpose of the measurements.

### 2.3 Test Procedure

#### 2.3.1 Conducted Emissions

The EUT is placed on a table which is 0.8 m above ground plane. Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz. The CISPR Quasi-Peak and Average detector mode is employed. The two LISNs provide 50uH/50 ohm of coupling impedance for the measuring instrument. Both lines of the power mains connected to the EUT were checked for maximum conducted interference.

#### 2.3.2 Radiated Emissions

The EUT is placed on a turn table. For emissions testing at or below 1 GHz, the table height shall be 0.8 m above the reference ground plane. For emission measurements above 1 GHz, the table height shall be 1.5 m. The turn table shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the max. emission, the relative positions of this transmitter (EUT) was rotated through three orthogonal axes and measurement procedures for electric field radiated emissions above 1 GHz the EUT measurement is to be made "while keeping the antenna in the 'cone of radiation' from that area and pointed at the area both in azimuth and elevation, with polarization oriented for maximum response." is still within the 3dB illumination BW of the measurement antenna.

#### 2.3.3 Radiated Emission Test Sites For Measurements From 9 kHz To 30 MHz

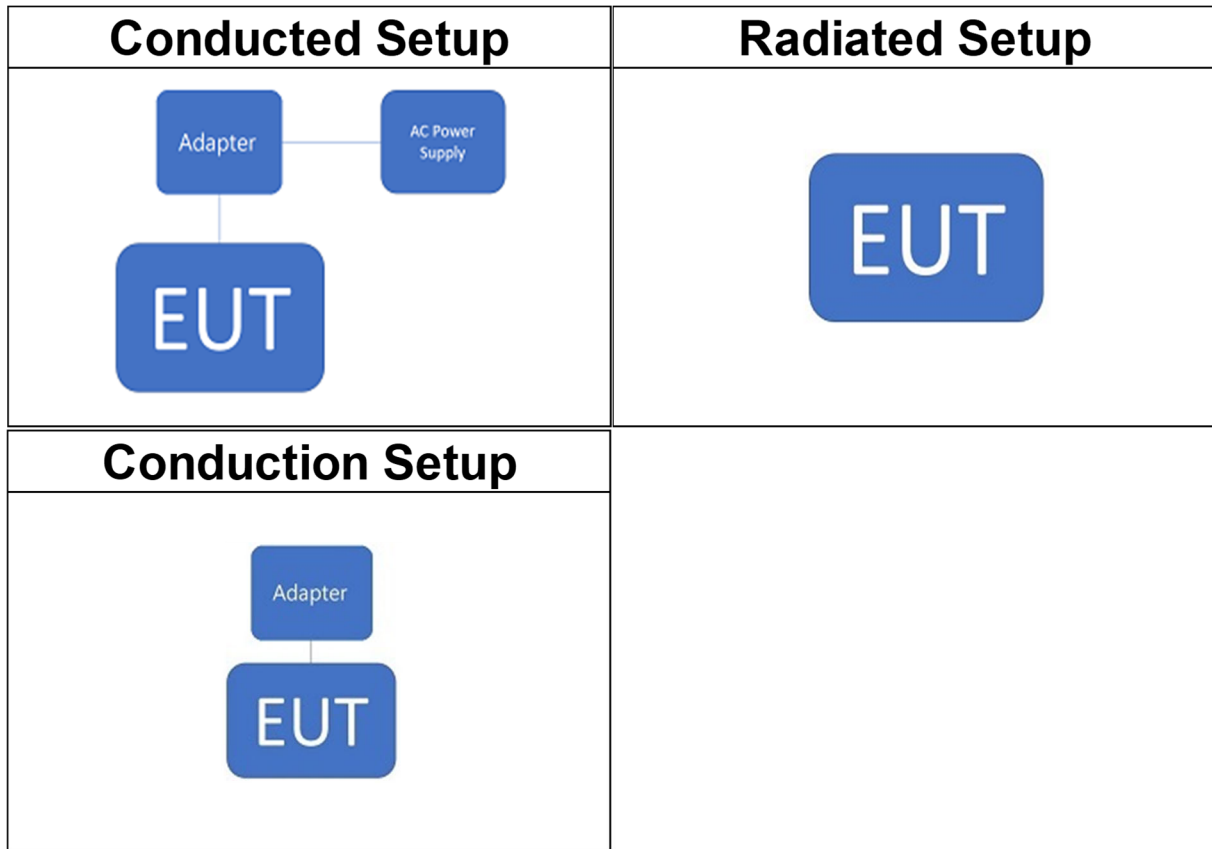
Radiated emission below 30MHz is measured in a 9m\*6m\*6m semi-anechoic chamber, the measurements correspond to those obtained at an open-field test site.

There is a comparison data of both open-field test site and semi-Anechoic chamber, and the result came out very similar.

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## 2.4 Test Configuration



## 2.5 Control Unit(s)

Conducted Emission Test Site: Conducted E					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
RFID card	Mifare card	Mifare card	N/A	N/A	N/A
AC Adapter	DELL	AA65NM220	N/A	N/A	N/A
Radiated Emission Test Site: SAC C					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
RFID card	Mifare card	Mifare card	N/A	N/A	N/A
AC Power-Line Conducted Emission Test Site: Conduction C					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
RFID card	Mifare card	Mifare card	N/A	N/A	N/A
AC Adapter	Dell	AA65NM220	N/A	N/A	N/A
AC Adapter	Dell	DA65NM190	N/A	N/A	N/A
AC Adapter	Dell	LA65NM190	N/A	N/A	N/A
AC Adapter	Dell	HA65NM190	N/A	N/A	N/A
AC Adapter	Dell	HKA65NM200	N/A	N/A	N/A
AC Adapter	Dell	LA100PM220	N/A	N/A	N/A
AC Adapter	Dell	HA100PM240	N/A	N/A	N/A
AC Adapter	Dell	DA100PM220	N/A	N/A	N/A

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### 3 SUMMARY OF TEST RESULTS

FCC Rules	ISED Rules	Description Of Test	Result
§15.207	RSS-Gen § 8.8	AC Power Line Conducted Emission	Compliant
§15.225 (a)-(d)	RSS210 Annex B B.6 (a)	Radiated Emission	Compliant
§15.209	RSS-Gen § 8.9	Radiated Emission Limits, general requirement	Compliant
§15.225 (e)	RSS210 Annex B B.6 (b)	Frequency Stability	Compliant
§2.1049 §15.215 (c)	RSS-Gen § 6.7	Emission Bandwidth	Compliant
§15.203	N/A	Antenna Requirement	Compliant
§15.205	RSS-Gen § 8.10	Restricted Bands	Compliant

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## 4 DESCRIPTION OF TEST MODES

### 4.1 The Worst Test Modes and Channel Details

1. The EUT stay in continuous transmission mode.
2. The frequency 13.56 MHz is the default channel to test, where it is the only manipulative channel as this application supports.
3. Only one configuration is supported/applicable as follows.

RADIATED EMISSION TEST			
MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION
NFC	1	1	ASK
FREQUENCY STABILITY			
MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION
NFC	1	1	ASK
20dB and 99% BANDWIDTH			
MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION
NFC	1	1	ASK

The field strength of radiated emission was measured as the EUT positioned in different orthogonal planes (E1/E2/H) based on actual usage of the EUT to pre-scan the emissions for determining the worst case scenario.

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## 5 MEASUREMENT UNCERTAINTY

Test Items	Uncertainty
AC Power Line Conducted Emission	+/- 1.54 dB
Frequency Stability	+/- 1.48 Hz
Emission Bandwidth	+/- 1.38 Hz
Temperature	+/- 0.6 °C
Humidity	+/- 3 %
DC / AC Power Source	+/- 1 %

Radiated Spurious Emission Measurement Uncertainty			
Polarization: Vertical	+/-	1.89 dB	9kHz~30MHz
	+/-	4.15 dB	30MHz - 1000MHz
	+/-	3.43 dB	1GHz - 18GHz
	+/-	3.86 dB	18GHz - 40GHz
Polarization: Horizontal	+/-	1.89 dB	9kHz~30MHz
	+/-	4.02 dB	30MHz - 1000MHz
	+/-	3.43 dB	1GHz - 18GHz
	+/-	3.86 dB	18GHz - 40GHz
Radiated Spurious Emission	+/-	2 dB	33GHz-50GHz
	+/-	1.59 dB	50GHz-60GHz
	+/-	1.7 dB	60GHz-90GHz
	+/-	1.64 dB	90GHz-140GHz
	+/-	3.83 dB	140GHz-220GHz

### Note:

1. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.
2. The conformity assessment statement in this report is based solely on the test results, measurement uncertainty is excluded.

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## 6 MEASUREMENT EQUIPMENT USED

### 6.1 Emission from AC power line

AC Power-Line Conducted Emission Test Site: Conduction C					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
LISN	SCHWARZBECK Mess-Elektronik	NSLK8127	973	04/22/2024	04/21/2025
EMI Test Receiver	R&S	ESCI	101342	04/29/2024	04/28/2025
Coaxial Cable	EC Lab	RF-HY-CAB-250	RF-HY-CAB-250-01	03/27/2024	03/26/2025
Pulse Limiter	EC Lab	VTSD 9561F-N	485	03/27/2024	03/26/2025
Test Software	audix	e3	E3 20923 SGS Ver.9 ( C )	N.C.R	N.C.R

### 6.2 Conducted Measurement

Conducted Emission Test Site: Conducted E					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
H-Loop Near Field Antenna	LANGER EMV- Technik	LF-R 400	02-1597	N.C.R	N.C.R
AC Power Source	Gwinstek	APS-7050E	GEV171679	10/26/2023	10/25/2024
Spectrum Analyzer	KEYSIGHT	N9010A	MY54510568	07/07/2023	07/06/2024
Temperature Chamber	Haich	HC-TOPH-30-CHP	QHC20230320-100- 2	08/24/2023	08/23/2024
DC Block	PASTERNAK	PE8210	RF157	11/15/2023	11/14/2024

### 6.3 Radiated Measurement

Radiated Emission Test Site: SAC C					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Broadband Antenna	SCHWARZBECK	VULB 9168	9168-300	11/02/2023	11/01/2024
Active Loop Antenna	COM-POWER	AL-130R	10160105	12/04/2023	12/03/2024
3m Site NSA	SGS	966 chamber C	N/A	03/02/2024	03/01/2025
Spectrum Analyzer	KEYSIGHT	N9010A	MY57120290	04/10/2024	04/09/2025
Test Software	audix	e3	E3 20923 SGS Ver.9 ( C )	N.C.R	N.C.R
Pre-Amplifier	EMC Instruments	EMC330	980096	11/15/2023	11/14/2024
Coaxial Cable	Huber+Suhner	RG 214/U	W22.03	11/15/2023	11/14/2024

**NOTE:** N.C.R refers to Not Calibrated Required.

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## 7 CONDUCTED EMISSIONS TEST

### 7.1 Standard Applicable

Frequency within 150 kHz to 30MHz shall not exceed the limit table as below.

Frequency range MHz	Limits (dBuV)	
	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

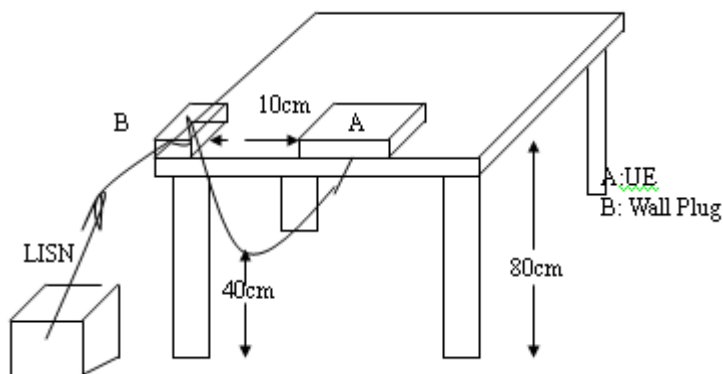
Note

- 1.The lower limit shall apply at the transition frequencies
- 2.The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz.

### 7.2 EUT Setup:

1. The conducted emission tests were performed in the test site, using the setup in accordance with the ANSI C63.10:2013.
2. The AC/DC Power adaptor of EUT was plug-in LISN. The EUT was placed flushed with the rear of the table.
3. The LISN was connected with 120Vac/60Hz power source.

### 7.3 Test SET-UP (Block Diagram of Configuration)



### 7.4 Measurement 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.

### 7.5 Measurement Result

Note: Refer to next page for measurement data and plots.

Note2: The \* reveals the worst-case results that closest to the limit.

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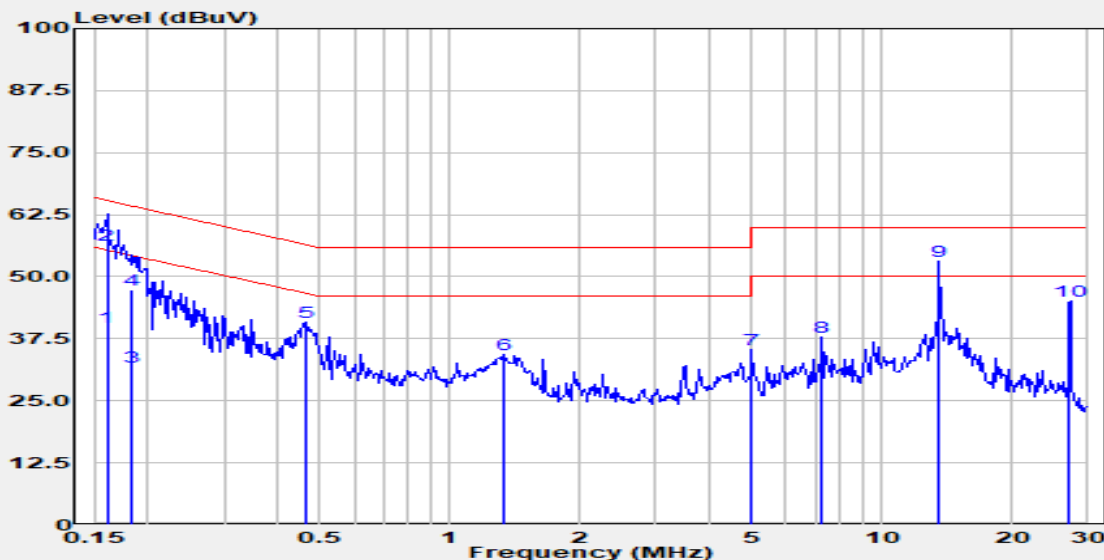
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## AC POWER LINE CONDUCTED EMISSION TEST DATA

Report Number	:TERF2405001271E2	Test Site	:Conduction C
Test Mode	:NFC	Test Date	:2024-05-20
Power	:120V/60Hz	Temp./Humi.	:23.8°C/59%
Probe	:L1	Engineer	:Howard Huang
Note	:NFC ON	Note	:AA65NM220



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV	Limit dBμV	Margin dB
0.161	Average	29.20	10.65	39.85	55.44	-15.59
0.161	QP	45.80	10.65	56.45	65.44	-8.99
0.184	Average	21.10	10.65	31.75	54.31	-22.56
0.184	QP	36.70	10.65	47.35	64.31	-16.96
0.464	Peak	30.13	10.62	40.74	56.62	-15.88
1.330	Peak	23.53	10.72	34.26	56.00	-21.74
5.001	Peak	24.32	10.95	35.28	60.00	-24.72
7.266	Peak	26.82	10.96	37.78	60.00	-22.22
13.560	Peak	-	-	-	-	-
27.120	Peak	-	-	-	-	-

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Report Number :TERF2405001271E2

Test Site :Conduction C

Test Mode :NFC

Test Date :2024-05-20

Power :120V/60Hz

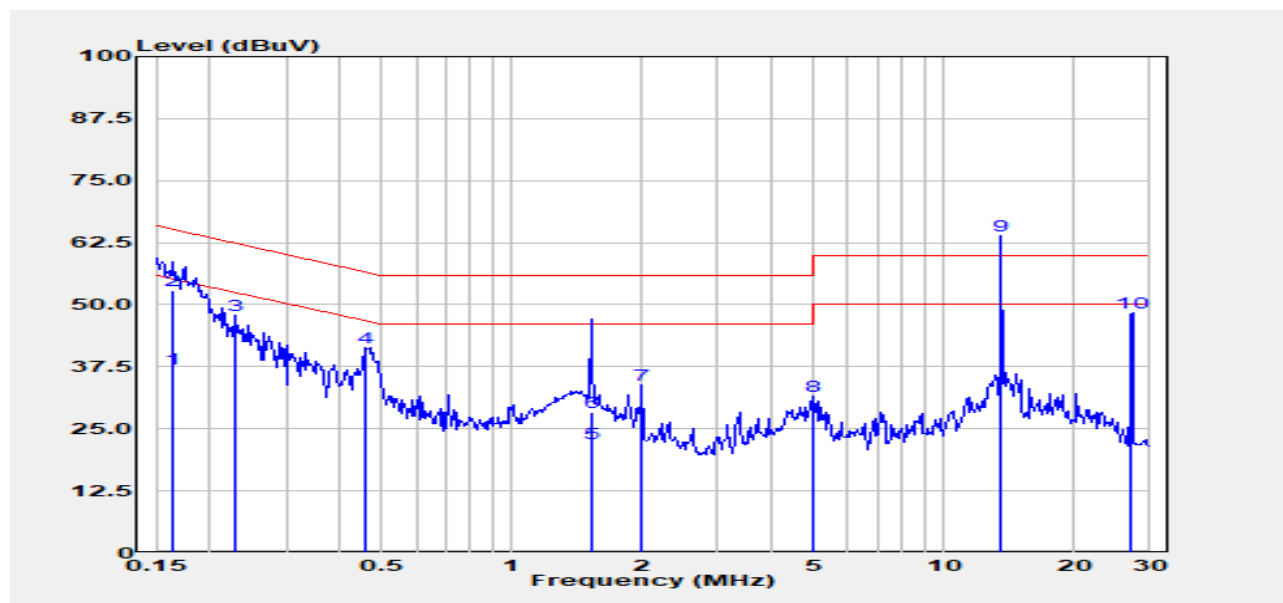
Temp./Humi. :23.8°C/59%

Probe :N

Engineer :Howard Huang

Note :NFC ON

Note : AA65NM220



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV	Limit dBμV	Margin dB
0.165	Average	26.40	10.66	37.06	55.22	-18.17
0.165	QP	42.20	10.66	52.86	65.22	-12.37
0.227	Peak	37.33	10.64	47.97	62.54	-14.57
0.460	Peak	30.74	10.61	41.34	56.69	-15.35
1.523	Average	11.30	10.72	22.02	46.00	-23.98
1.523	QP	17.70	10.72	28.42	56.00	-27.58
1.999	Peak	23.08	10.75	33.83	56.00	-22.17
4.959	Peak	20.77	10.93	31.70	56.00	-24.30
13.560	Peak	-	-	-	-	-
27.120	Peak	-	-	-	-	-

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Report Number :TERF2405001271E2

Test Mode :NFC

Power :120V/60Hz

Probe :L1

Note :NFC OFF

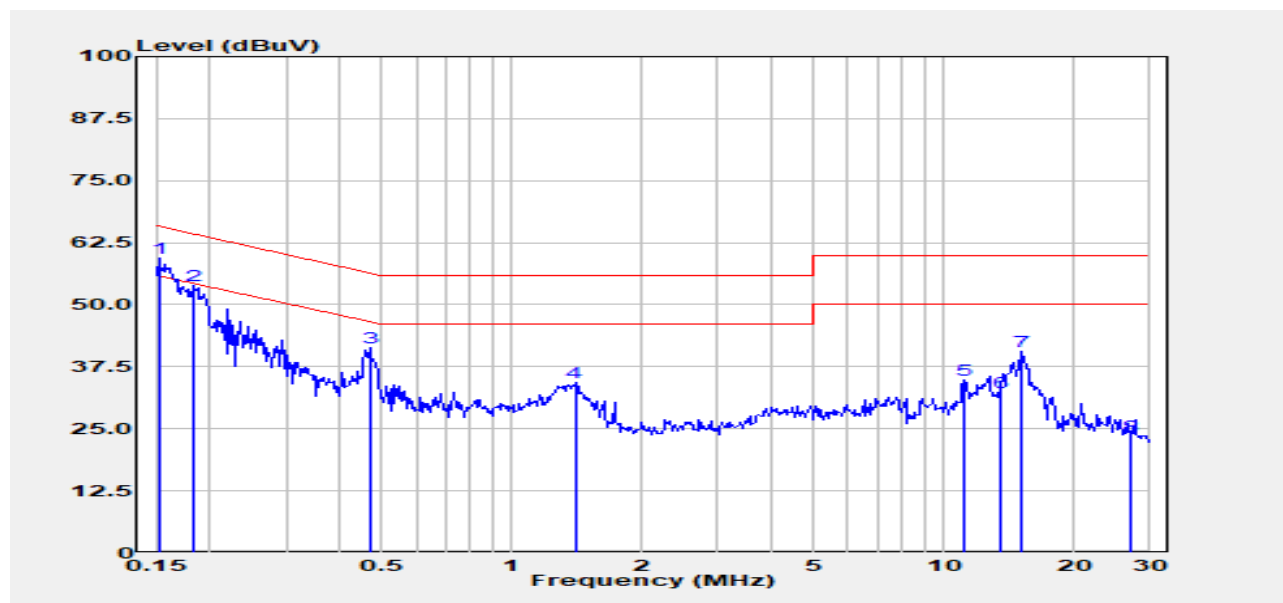
Test Site :Conduction C

Test Date :2024-05-20

Temp./Humi. :23.8°C/59%

Engineer :Howard Huang

Note : AA65NM220



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV	Limit dBμV	Margin dB
0.153	Peak	48.74	10.65	59.39	65.86	-6.47
0.182	Peak	43.20	10.65	53.85	64.38	-10.53
0.468	Peak	30.66	10.62	41.28	56.55	-15.27
1.399	Peak	23.55	10.73	34.28	56.00	-21.72
11.204	Peak	23.97	10.99	34.96	60.00	-25.04
13.560	Peak	-	-	-	-	-
15.210	Peak	29.49	11.08	40.57	60.00	-19.43
27.120	Peak	-	-	-	-	-

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Report Number :TERF2405001271E2

Test Site :Conduction C

Test Mode :NFC

Test Date :2024-05-20

Power :120V/60Hz

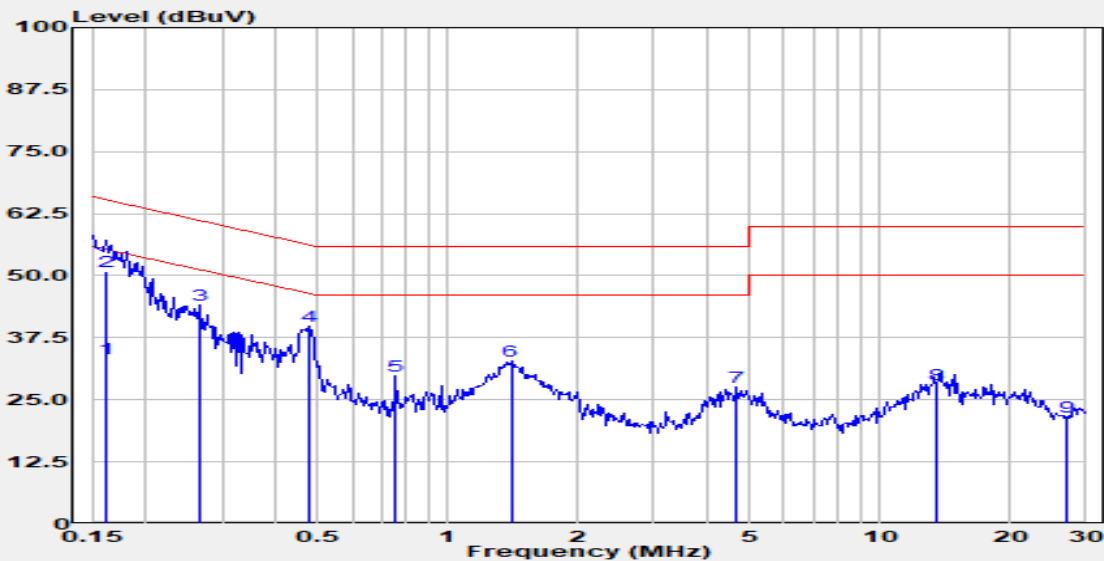
Temp./Humi. :23.8°C/59%

Probe :N

Engineer :Howard Huang

Note :NFC OFF

Note : AA65NM220



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV	Limit dBμV	Margin dB
0.162	Average	22.60	10.66	33.26	55.37	-22.11
0.162	QP	40.10	10.66	50.76	65.37	-14.61
0.265	Peak	33.43	10.63	44.07	61.27	-17.21
0.476	Peak	29.25	10.60	39.85	56.41	-16.56
0.759	Peak	19.24	10.64	29.88	56.00	-26.12
1.399	Peak	22.21	10.71	32.92	56.00	-23.08
4.672	Peak	16.54	10.92	27.46	56.00	-28.54
13.560	Peak	-	-	-	-	-
27.120	Peak	-	-	-	-	-

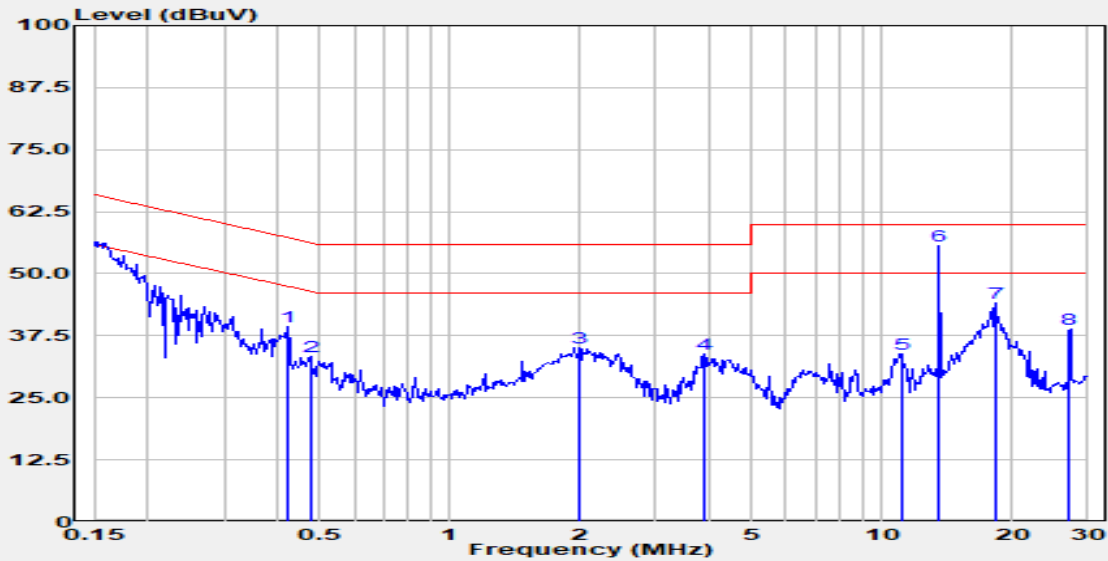
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Report Number :TERF2405001271E2  
Test Mode :NFC  
Power :120V/60Hz  
Probe :L1  
Note :NFC ON

Test Site :Conduction C  
Test Date :2024-05-20  
Temp./Humi. :23.8°C/59%  
Engineer :Howard Huang  
Note : DA65NM190



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV	Limit dBμV	Margin dB
0.419	Peak	28.79	10.62	39.42	57.47	-18.05
0.476	Peak	22.64	10.62	33.26	56.41	-23.15
1.999	Peak	24.41	10.77	35.18	56.00	-20.82
3.876	Peak	22.90	10.89	33.80	56.00	-22.20
11.109	Peak	22.90	10.99	33.89	60.00	-26.11
13.560	Peak	-	-	-	-	-
18.333	Peak	32.86	11.13	43.99	60.00	-16.01
27.120	Peak	-	-	-	-	-

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Report Number :TERF2405001271E2

Test Site :Conduction C

Test Mode :NFC

Test Date :2024-05-20

Power :120V/60Hz

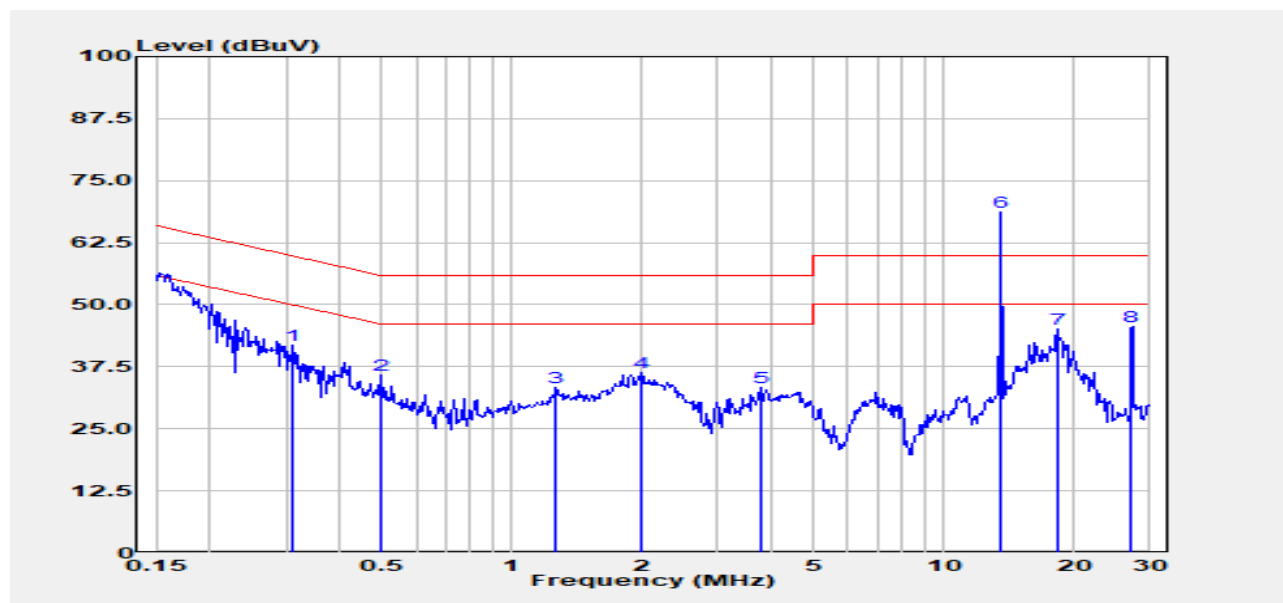
Temp./Humi. :23.8°C/59%

Probe :N

Engineer :Howard Huang

Note :NFC ON

Note : DA65NM190



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV	Limit dBμV	Margin dB
0.311	Peak	31.21	10.63	41.84	59.93	-18.10
0.497	Peak	25.32	10.60	35.92	56.06	-20.13
1.264	Peak	22.65	10.70	33.35	56.00	-22.65
1.999	Peak	25.53	10.75	36.28	56.00	-19.72
3.779	Peak	22.34	10.87	33.21	56.00	-22.79
13.560	Peak	-	-	-	-	-
18.333	Peak	34.07	11.13	45.20	60.00	-14.80
27.120	Peak	-	-	-	-	-

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Report Number :TERF2405001271E2

Test Mode :NFC

Power :120V/60Hz

Probe :L1

Note :NFC OFF

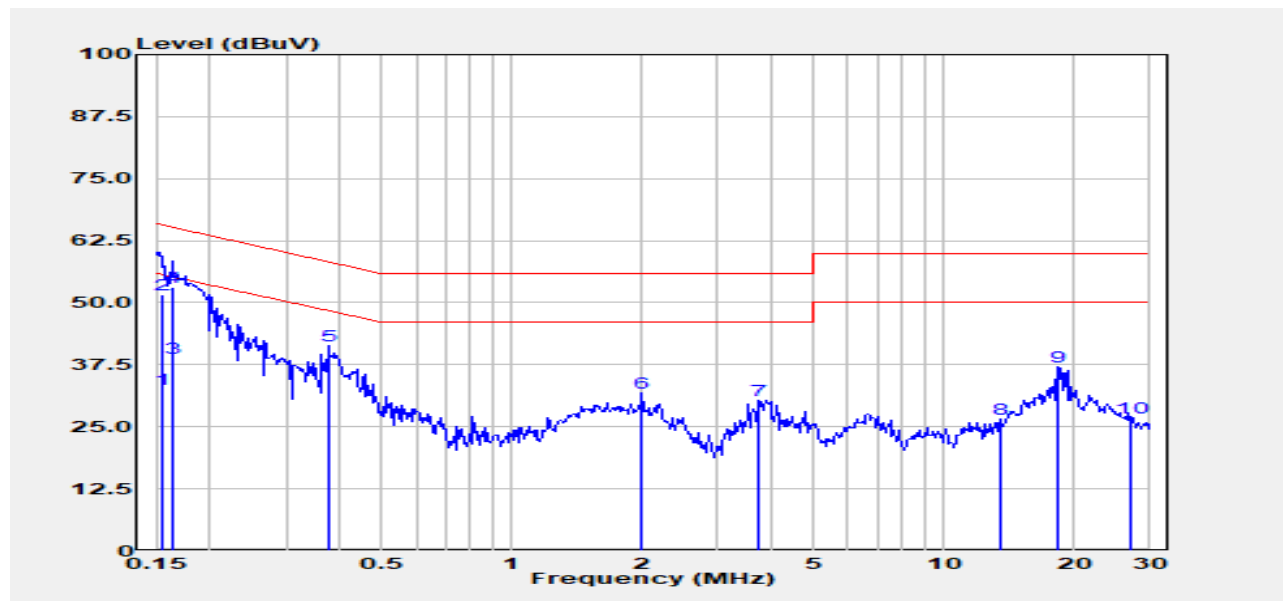
Test Site :Conduction C

Test Date :2024-05-20

Temp./Humi. :23.8°C/59%

Engineer :Howard Huang

Note : DA65NM190



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV	Limit dBμV	Margin dB
0.155	Average	22.00	10.65	32.65	55.72	-23.07
0.155	QP	40.90	10.65	51.55	65.72	-14.17
0.163	Average	28.30	10.65	38.95	55.29	-16.34
0.163	QP	42.60	10.65	53.25	65.29	-12.04
0.375	Peak	30.76	10.62	41.39	58.38	-17.00
1.999	Peak	20.95	10.77	31.72	56.00	-24.28
3.715	Peak	19.49	10.88	30.38	56.00	-25.62
13.560	Peak	-	-	-	-	-
18.490	Peak	25.97	11.14	37.11	60.00	-22.89
27.120	Peak	-	-	-	-	-

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Report Number :TERF2405001271E2

Test Mode :NFC

Power :120V/60Hz

Probe :N

Note :NFC OFF

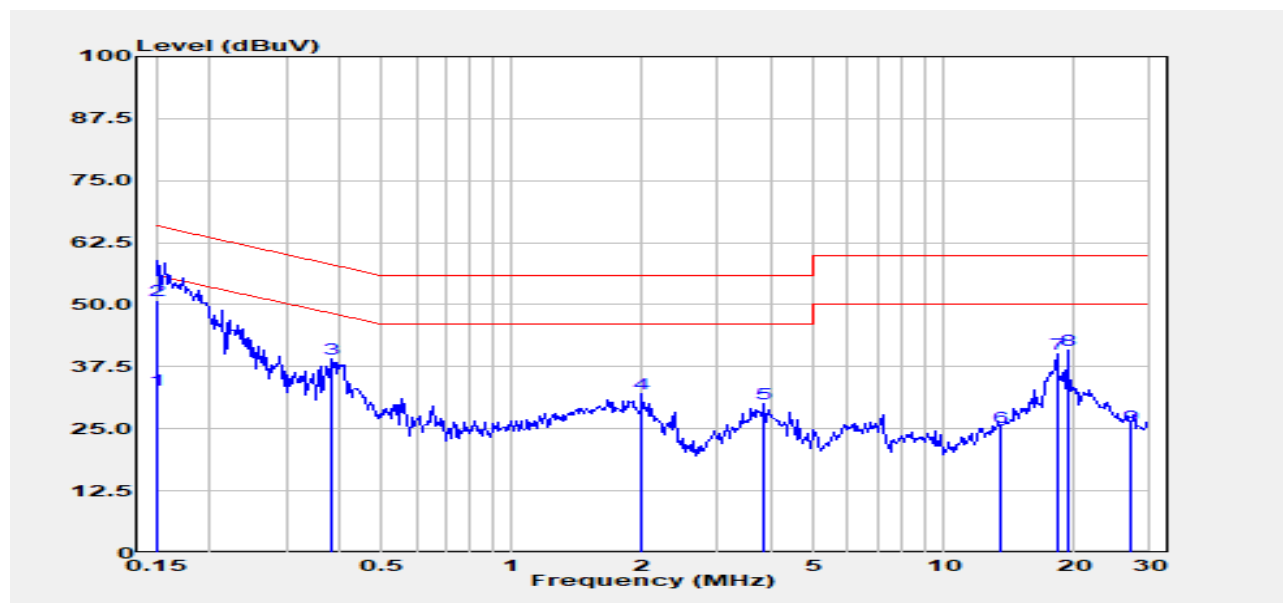
Test Site :Conduction C

Test Date :2024-05-20

Temp./Humi. :23.8°C/59%

Engineer :Howard Huang

Note : DA65NM190



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level	dB	FS	dBμV	dB
	PK/QP/AV	dBμV		dBμV		
0.151	Average	22.10	10.66	32.76	55.93	-23.17
0.151	QP	40.20	10.66	50.86	65.93	-15.07
0.382	Peak	28.55	10.61	39.17	58.24	-19.07
1.999	Peak	21.37	10.75	32.12	56.00	-23.88
3.844	Peak	19.13	10.87	30.01	56.00	-25.99
13.560	Peak	-	-	-	-	-
18.333	Peak	28.95	11.13	40.08	60.00	-19.92
19.292	Peak	29.78	11.15	40.93	60.00	-19.07
27.120	Peak	-	-	-	-	-

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Report Number :TERF2405001271E2

Test Site :Conduction C

Test Mode :NFC

Test Date :2024-05-20

Power :120V/60Hz

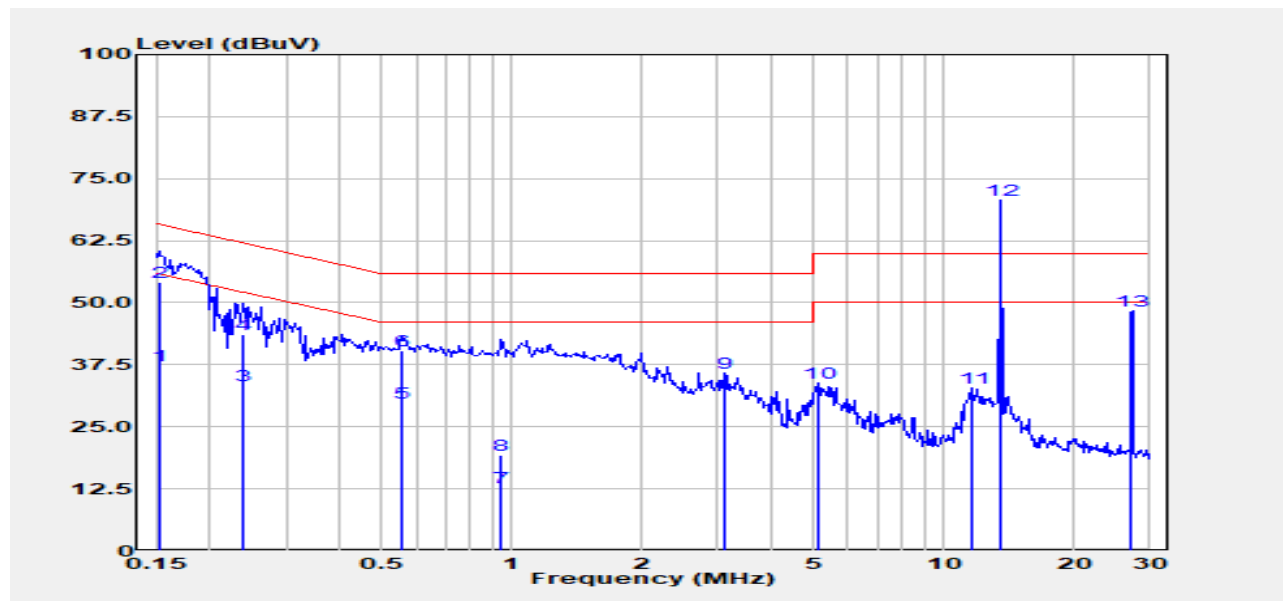
Temp./Humi. :23.8°C/59%

Probe :L1

Engineer :Howard Huang

Note :NFC ON

Note : LA65NM190



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV	Limit dBμV	Margin dB
0.153	Average	26.60	10.65	37.25	55.86	-18.61
0.153	QP	43.60	10.65	54.25	65.86	-11.61
0.237	Average	22.80	10.64	33.44	52.19	-18.75
0.237	QP	33.00	10.64	43.64	62.19	-18.55
0.555	Average	19.10	10.63	29.73	46.00	-16.27
0.555	QP	29.80	10.63	40.43	56.00	-15.57
0.947	Average	2.00	10.68	12.68	46.00	-33.32
0.947	QP	8.60	10.68	19.28	56.00	-36.72
3.108	Peak	24.96	10.85	35.81	56.00	-20.19
5.130	Peak	22.90	10.95	33.85	60.00	-26.15
11.690	Peak	21.70	11.01	32.71	60.00	-27.29
13.560	Peak	-	-	-	-	-
27.120	Peak	-	-	-	-	-

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Report Number :TERF2405001271E2

Test Site :Conduction C

Test Mode :NFC

Test Date :2024-05-20

Power :120V/60Hz

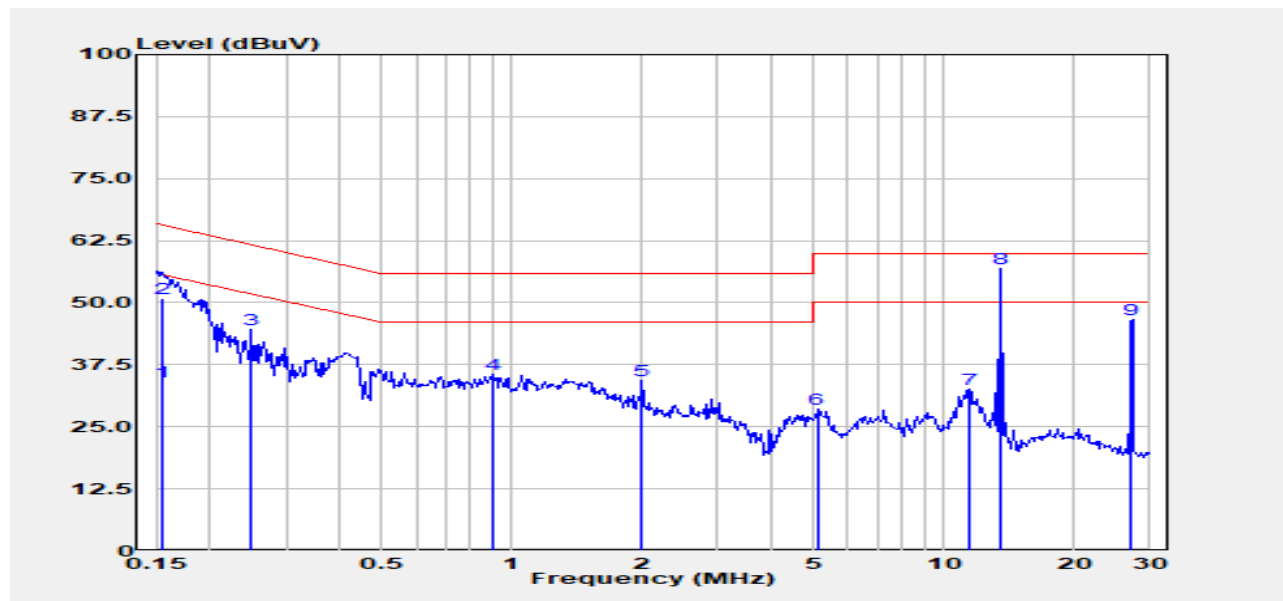
Temp./Humi. :23.8°C/59%

Probe :N

Engineer :Howard Huang

Note :NFC ON

Note : LA65NM190



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV	Limit dBμV	Margin dB
0.155	Average	23.40	10.66	34.06	55.72	-21.66
0.155	QP	40.20	10.66	50.86	65.72	-14.86
0.250	Peak	33.89	10.64	44.52	61.77	-17.24
0.908	Peak	24.97	10.66	35.63	56.00	-20.37
1.999	Peak	23.64	10.75	34.39	56.00	-21.61
5.087	Peak	17.72	10.94	28.66	60.00	-31.34
11.493	Peak	21.66	10.99	32.65	60.00	-27.35
13.560	Peak	-	-	-	-	-
27.120	Peak	-	-	-	-	-

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Report Number :TERF2405001271E2

Test Mode :NFC

Power :120V/60Hz

Probe :L1

Note :NFC OFF

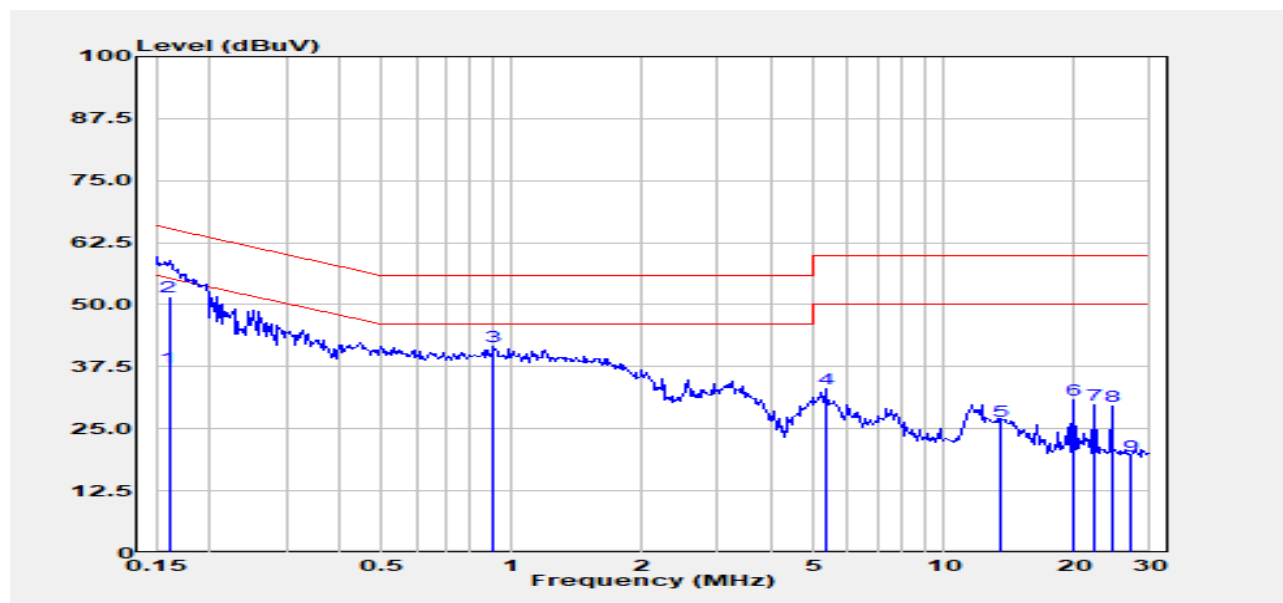
Test Site :Conduction C

Test Date :2024-05-20

Temp./Humi. :23.8°C/59%

Engineer :Howard Huang

Note : LA65NM190



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV	Limit dBμV	Margin dB
0.161	Average	26.70	10.65	37.35	55.44	-18.09
0.161	QP	41.00	10.65	51.65	65.44	-13.79
0.908	Peak	31.04	10.68	41.72	56.00	-14.28
5.307	Peak	22.09	10.95	33.05	60.00	-26.95
13.560	Peak	-	-	-	-	-
19.958	Peak	19.59	11.16	30.75	60.00	-29.25
22.287	Peak	18.63	11.22	29.85	60.00	-30.15
24.469	Peak	18.19	11.26	29.45	60.00	-30.55
27.120	Peak	-	-	-	-	-

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Report Number :TERF2405001271E2

Test Mode :NFC

Power :120V/60Hz

Probe :N

Note :NFC OFF

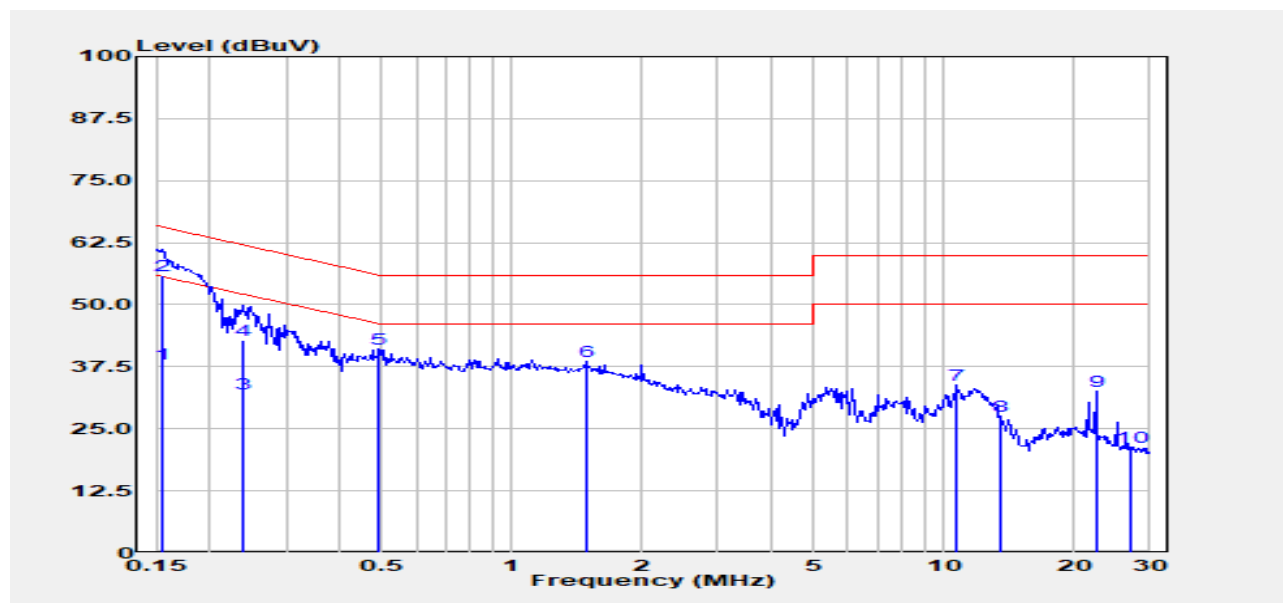
Test Site :Conduction C

Test Date :2024-05-20

Temp./Humi. :23.8°C/59%

Engineer :Howard Huang

Note : LA65NM190



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV	Limit dBμV	Margin dB
0.155	Average	27.40	10.66	38.06	55.72	-17.66
0.155	QP	45.20	10.66	55.86	65.72	-9.86
0.237	Average	21.40	10.64	32.04	52.19	-20.15
0.237	QP	32.10	10.64	42.74	62.19	-19.45
0.492	Peak	30.55	10.60	41.16	56.13	-14.97
1.485	Peak	27.87	10.72	38.59	56.00	-17.41
10.738	Peak	22.96	10.97	33.93	60.00	-26.07
13.560	Peak	-	-	-	-	-
22.477	Peak	21.32	11.23	32.54	60.00	-27.46
27.120	Peak	-	-	-	-	-

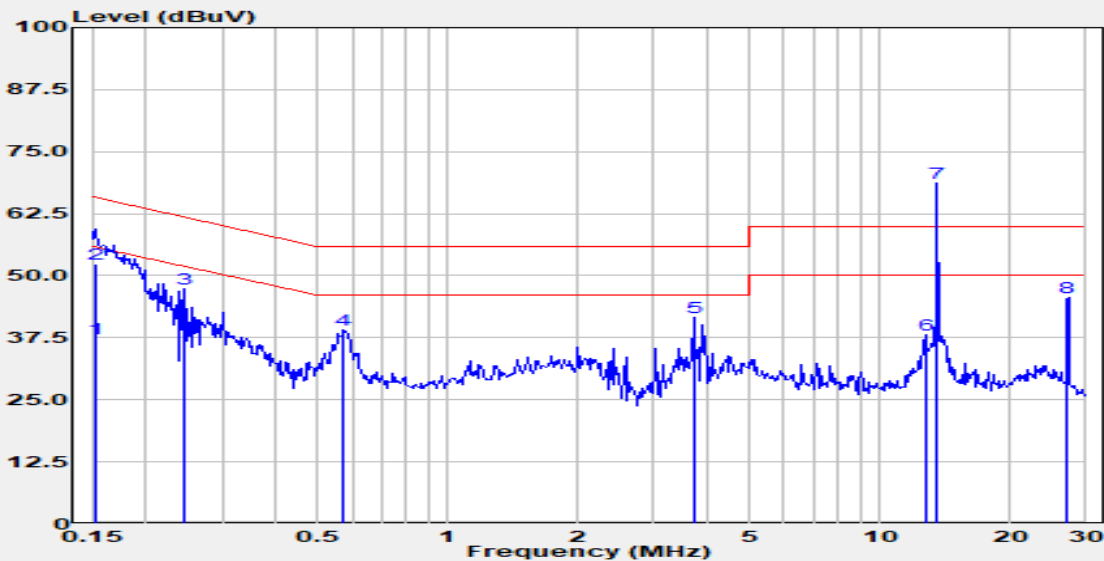
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Report Number :TERF2405001271E2  
Test Mode :NFC  
Power :120V/60Hz  
Probe :L1  
Note :NFC ON

Test Site :Conduction C  
Test Date :2024-05-20  
Temp./Humi. :23.8°C/59%  
Engineer :Howard Huang  
Note : HA65NM190



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS		
	PK/QP/AV	dBμV	dB	dBμV	dBμV	dB
0.153	Average	26.60	10.65	37.25	55.86	-18.61
0.153	QP	41.70	10.65	52.35	65.86	-13.51
0.245	Peak	36.70	10.64	47.34	61.91	-14.57
0.574	Peak	28.57	10.63	39.20	56.00	-16.80
3.715	Peak	30.62	10.88	41.51	56.00	-14.49
12.726	Peak	27.19	11.03	38.22	60.00	-21.78
13.560	Peak	-	-	-	-	-
27.120	Peak	-	-	-	-	-

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Report Number :TERF2405001271E2

Test Mode :NFC

Power :120V/60Hz

Probe :N

Note :NFC ON

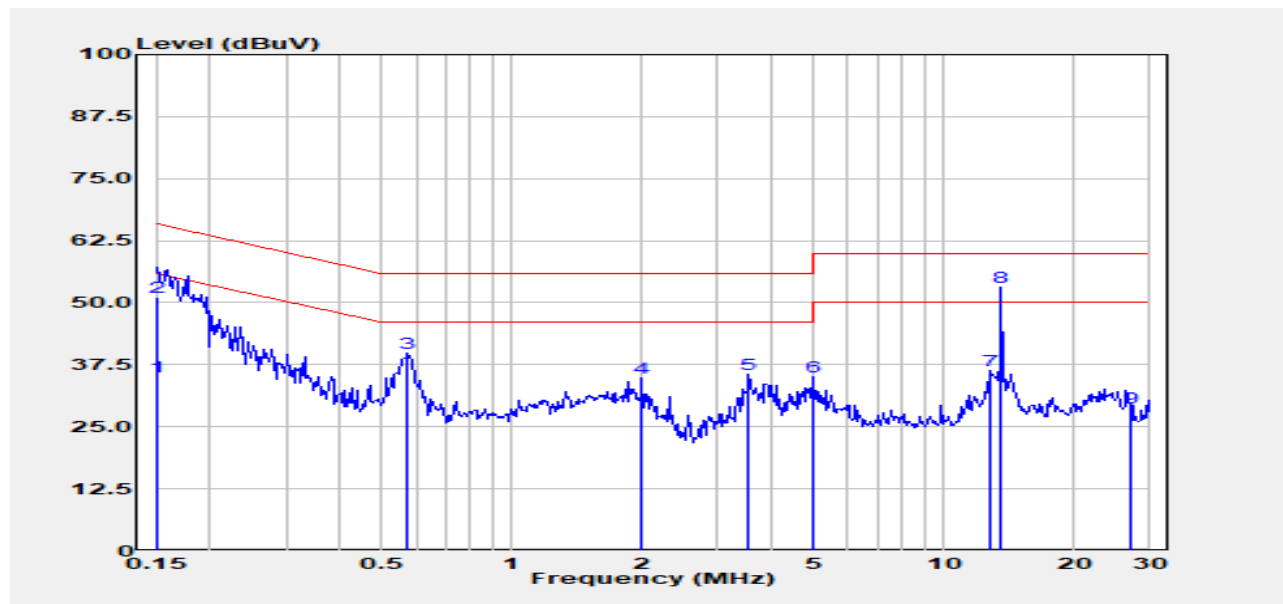
Test Site :Conduction C

Test Date :2024-05-20

Temp./Humi. :23.8°C/59%

Engineer :Howard Huang

Note : HA65NM190



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV	Limit dBμV	Margin dB
0.151	Average	24.50	10.66	35.16	55.93	-20.77
0.151	QP	40.50	10.66	51.16	65.93	-14.77
0.574	Peak	29.27	10.62	39.88	56.00	-16.12
1.999	Peak	24.01	10.75	34.76	56.00	-21.24
3.531	Peak	24.81	10.86	35.67	56.00	-20.33
4.959	Peak	24.17	10.93	35.11	56.00	-20.89
12.726	Peak	25.24	11.02	36.26	60.00	-23.74
13.560	Peak	-	-	-	-	-
27.120	Peak	-	-	-	-	-

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Report Number :TERF2405001271E2

Test Mode :NFC

Power :120V/60Hz

Probe :L1

Note :NFC OFF

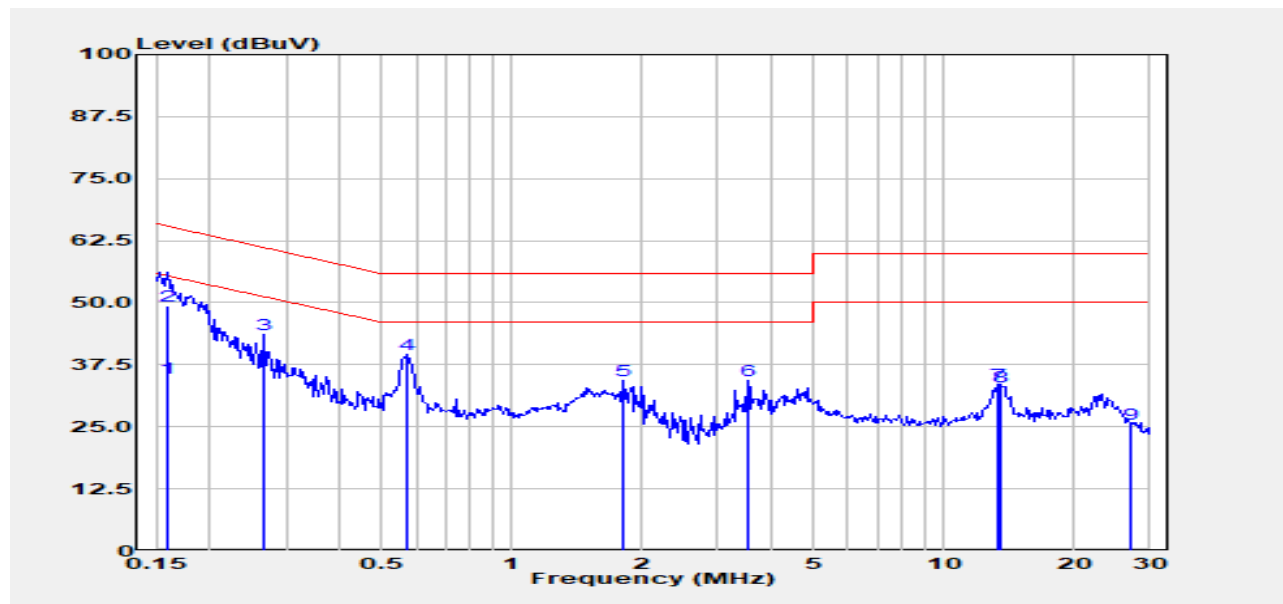
Test Site :Conduction C

Test Date :2024-05-20

Temp./Humi. :23.8°C/59%

Engineer :Howard Huang

Note : HA65NM190



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level	dB	FS	dBμV	dB
	PK/QP/AV	dBμV		dBμV		
0.159	Average	24.20	10.65	34.85	55.51	-20.66
0.159	QP	38.80	10.65	49.45	65.51	-16.06
0.265	Peak	32.98	10.64	43.62	61.27	-17.66
0.574	Peak	28.87	10.63	39.50	56.00	-16.50
1.821	Peak	23.52	10.76	34.28	56.00	-21.72
3.501	Peak	23.56	10.87	34.43	56.00	-21.57
13.278	Peak	22.55	11.04	33.60	60.00	-26.40
13.560	Peak	-	-	-	-	-
27.120	Peak	-	-	-	-	-

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Report Number :TERF2405001271E2

Test Site :Conduction C

Test Mode :NFC

Test Date :2024-05-20

Power :120V/60Hz

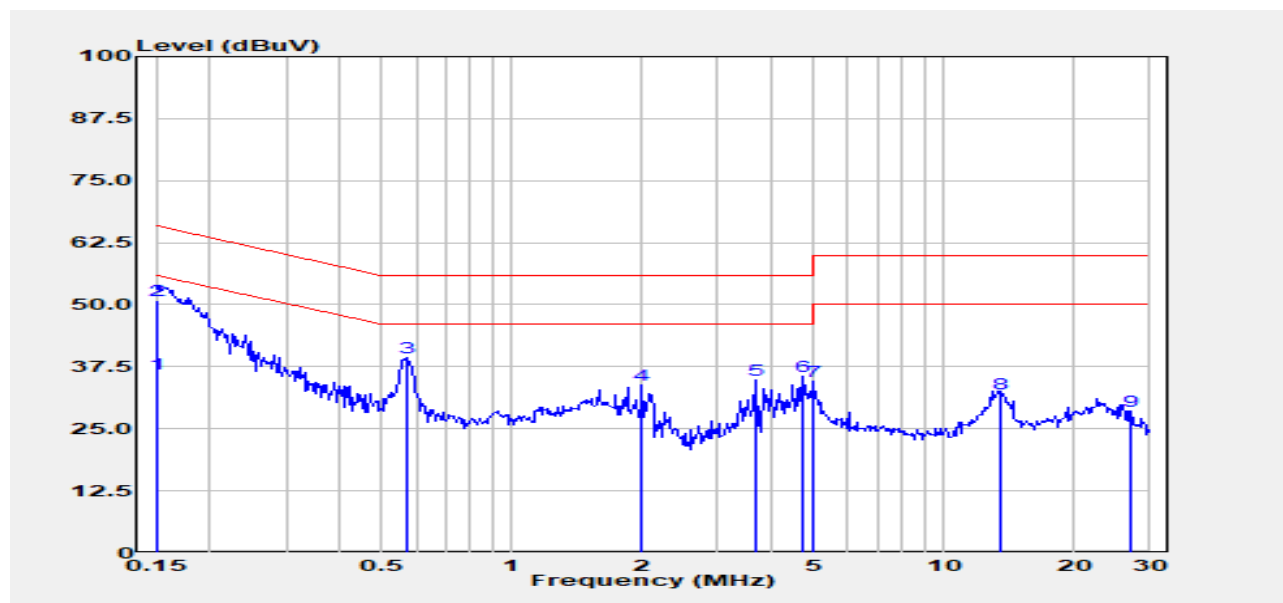
Temp./Humi. :23.8°C/59%

Probe :N

Engineer :Howard Huang

Note :NFC OFF

Note : HA65NM190



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level	dB	FS	dBμV	dB
	PK/QP/AV	dBμV		dBμV		
0.151	Average	25.40	10.66	36.06	55.93	-19.87
0.151	QP	40.20	10.66	50.86	65.93	-15.07
0.569	Peak	28.63	10.62	39.24	56.00	-16.76
1.999	Peak	23.11	10.75	33.86	56.00	-22.14
3.653	Peak	24.00	10.86	34.86	56.00	-21.14
4.712	Peak	24.65	10.92	35.57	56.00	-20.43
5.001	Peak	23.61	10.94	34.54	60.00	-25.46
13.560	Peak	-	-	-	-	-
27.120	Peak	-	-	-	-	-

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Report Number :TERF2405001271E2

Test Mode :NFC

Power :120V/60Hz

Probe :L1

Note :NFC ON

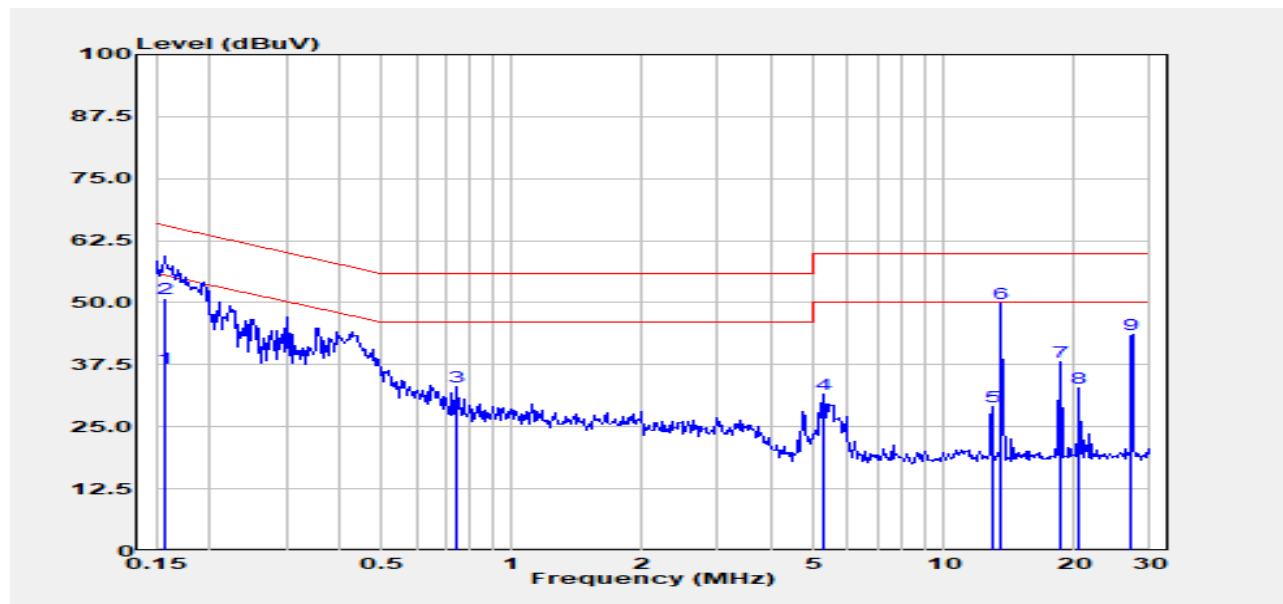
Test Site :Conduction C

Test Date :2024-05-20

Temp./Humi. :23.8°C/59%

Engineer :Howard Huang

Note : HKA65NM200



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV	Limit dBμV	Margin dB
0.157	Average	26.30	10.65	36.95	55.65	-18.70
0.157	QP	40.30	10.65	50.95	65.65	-14.70
0.740	Peak	22.41	10.66	33.07	56.00	-22.93
5.262	Peak	20.73	10.95	31.69	60.00	-28.31
12.944	Peak	18.10	11.03	29.13	60.00	-30.87
13.560	Peak	-	-	-	-	-
18.647	Peak	27.00	11.14	38.14	60.00	-21.86
20.648	Peak	21.63	11.18	32.80	60.00	-27.20
27.120	Peak	-	-	-	-	-

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Report Number :TERF2405001271E2

Test Mode :NFC

Power :120V/60Hz

Probe :N

Note :NFC ON

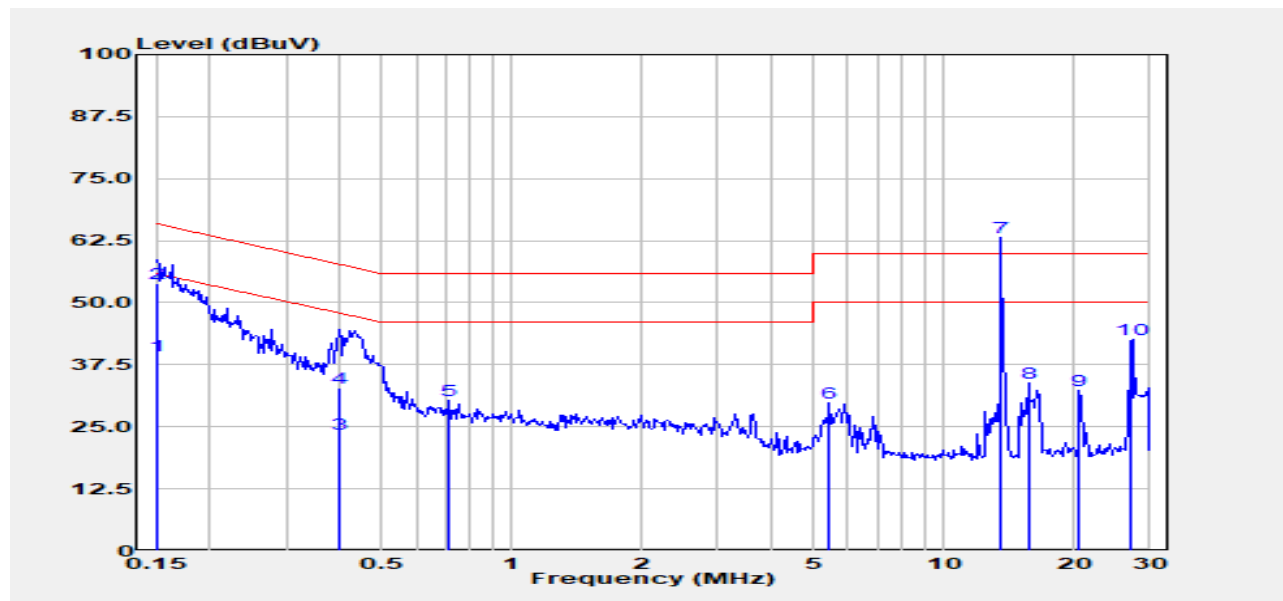
Test Site :Conduction C

Test Date :2024-05-20

Temp./Humi. :23.8°C/59%

Engineer :Howard Huang

Note : HKA65NM200



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS		
	PK/QP/AV	dBμV	dB	dBμV	dBμV	dB
0.151	Average	28.60	10.66	39.26	55.93	-16.67
0.151	QP	43.20	10.66	53.86	65.93	-12.07
0.398	Average	12.90	10.61	23.51	47.89	-24.38
0.398	QP	22.10	10.61	32.71	57.89	-25.18
0.715	Peak	19.65	10.64	30.29	56.00	-25.71
5.444	Peak	18.97	10.94	29.91	60.00	-30.09
13.560	Peak	-	-	-	-	-
15.735	Peak	22.72	11.09	33.80	60.00	-26.20
20.648	Peak	21.09	11.18	32.27	60.00	-27.73
27.120	Peak	-	-	-	-	-

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Report Number :TERF2405001271E2

Test Mode :NFC

Power :120V/60Hz

Probe :L1

Note :NFC OFF

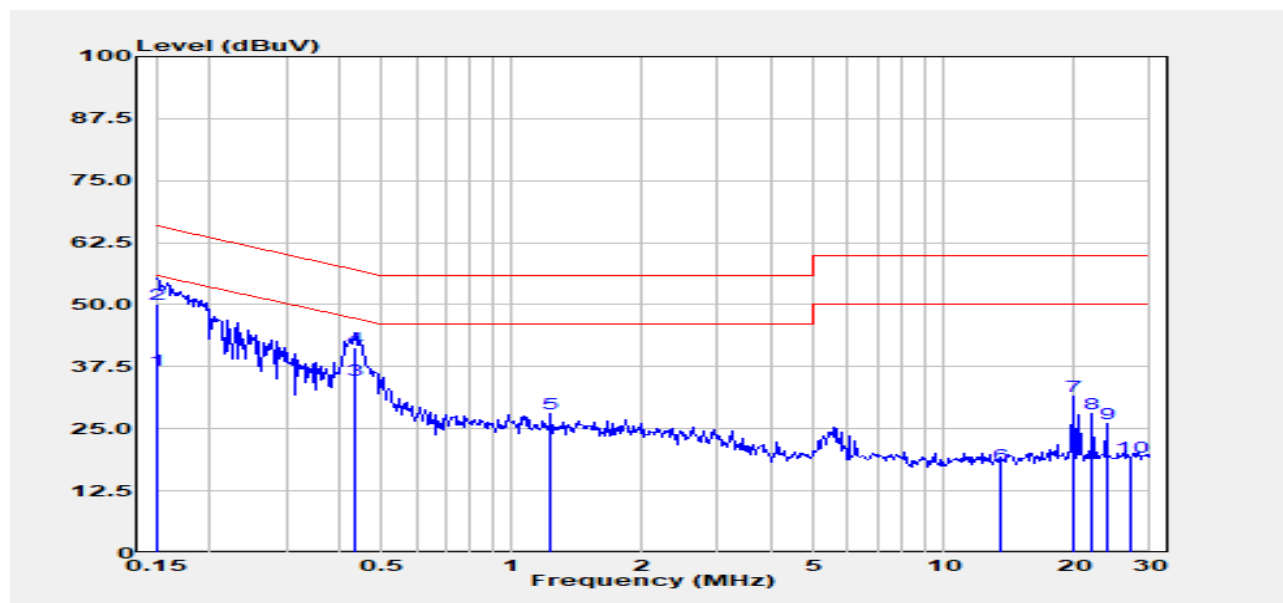
Test Site :Conduction C

Test Date :2024-05-20

Temp./Humi. :23.8°C/59%

Engineer :Howard Huang

Note : HKA65NM200



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV	Limit dBμV	Margin dB
0.151	Average	26.30	10.65	36.95	55.93	-18.98
0.151	QP	39.60	10.65	50.25	65.93	-15.68
0.434	Average	24.10	10.62	34.72	47.18	-12.46
0.434	QP	30.70	10.62	41.32	57.18	-15.86
1.232	Peak	17.25	10.71	27.97	56.00	-28.03
13.560	Peak	-	-	-	-	-
19.958	Peak	20.42	11.16	31.58	60.00	-28.42
22.099	Peak	16.87	11.21	28.08	60.00	-31.92
23.854	Peak	14.72	11.25	25.98	60.00	-34.02
27.120	Peak	-	-	-	-	-

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Report Number :TERF2405001271E2

Test Site :Conduction C

Test Mode :NFC

Test Date :2024-05-20

Power :120V/60Hz

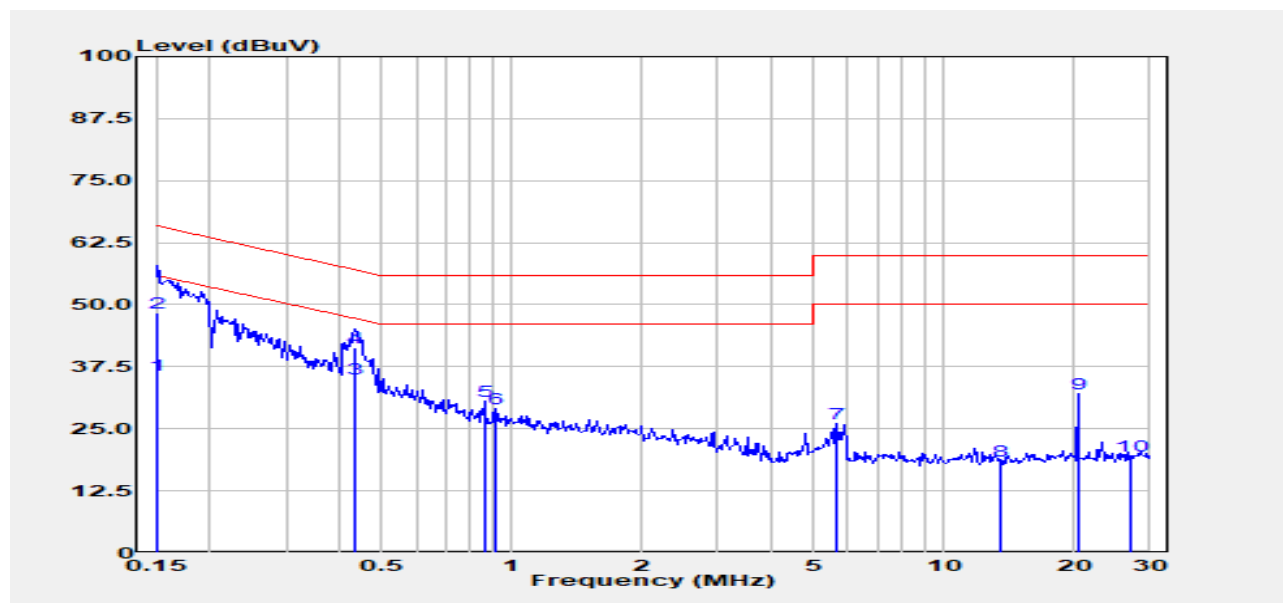
Temp./Humi. :23.8°C/59%

Probe :N

Engineer :Howard Huang

Note :NFC OFF

Note : HKA65NM200



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV	Limit dBμV	Margin dB
0.151	Average	25.30	10.66	35.96	55.93	-19.97
0.151	QP	37.70	10.66	48.36	65.93	-17.57
0.434	Average	24.50	10.61	35.11	47.18	-12.08
0.434	QP	30.70	10.61	41.31	57.18	-15.88
0.862	Peak	19.93	10.66	30.59	56.00	-25.41
0.915	Peak	18.41	10.66	29.07	56.00	-26.93
5.680	Peak	15.01	10.94	25.95	60.00	-34.05
13.560	Peak	-	-	-	-	-
20.473	Peak	20.98	11.17	32.15	60.00	-27.85
27.120	Peak	-	-	-	-	-

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Report Number :TERF2405001271E2

Test Mode :NFC

Power :120V/60Hz

Probe :L1

Note :NFC ON

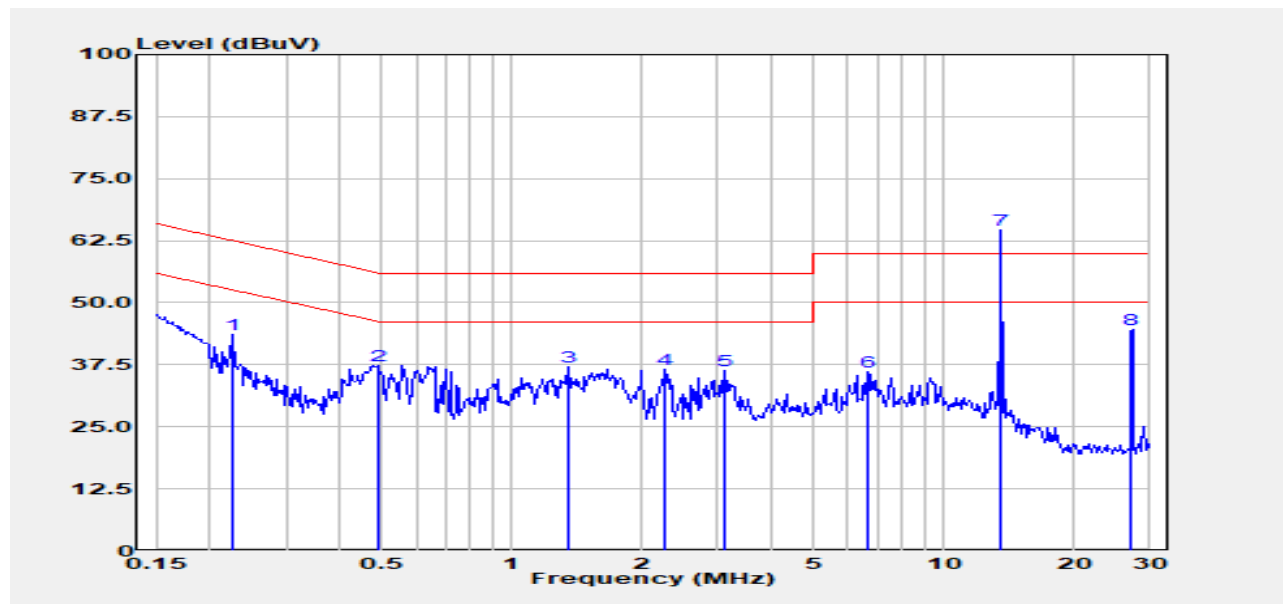
Test Site :Conduction C

Test Date :2024-05-20

Temp./Humi. :23.8°C/59%

Engineer :Howard Huang

Note : LA100PM220



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV	Limit dBμV	Margin dB
0.225	Peak	33.00	10.65	43.65	62.61	-18.97
0.488	Peak	26.75	10.62	37.37	56.20	-18.83
1.353	Peak	26.41	10.72	37.14	56.00	-18.86
2.270	Peak	25.75	10.79	36.54	56.00	-19.46
3.108	Peak	25.46	10.85	36.31	56.00	-19.69
6.675	Peak	25.01	10.96	35.97	60.00	-24.03
13.560	Peak	-	-	-	-	-
27.120	Peak	-	-	-	-	-

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SGS Taiwan Ltd.

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台灣檢驗科技股份有限公司

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Member of SGS Group

Report Number :TERF2405001271E2

Test Site :Conduction C

Test Mode :NFC

Test Date :2024-05-20

Power :120V/60Hz

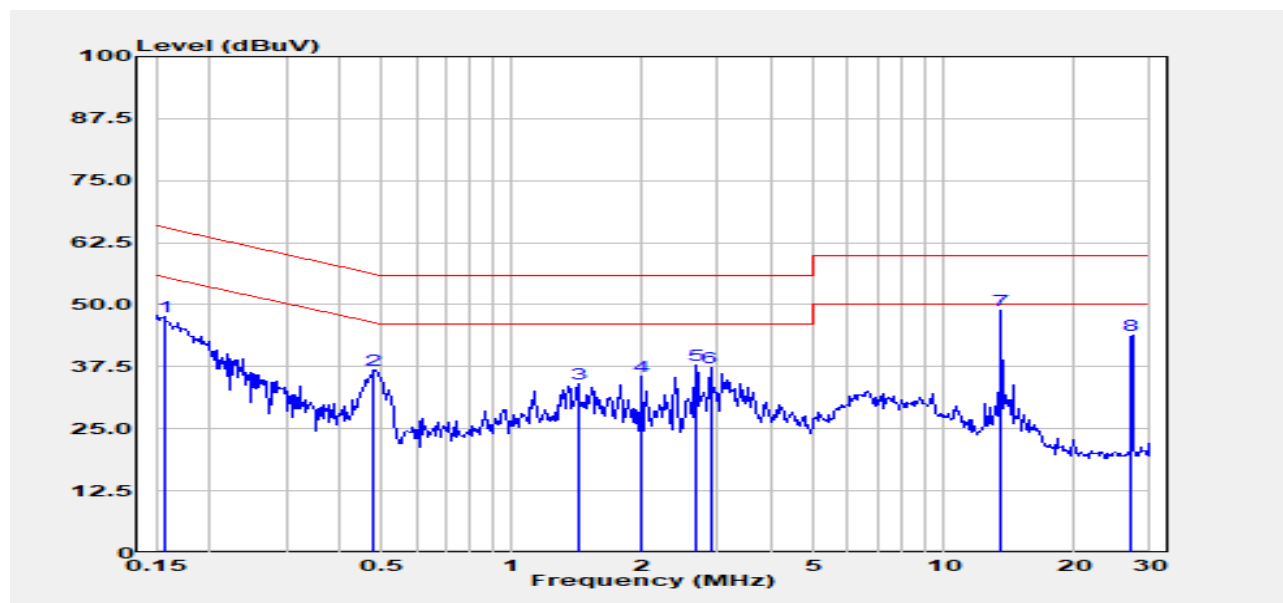
Temp./Humi. :23.8°C/59%

Probe :N

Engineer :Howard Huang

Note :NFC ON

Note : LA100PM220



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV	Limit dBμV	Margin dB
0.157	Peak	36.88	10.66	47.54	65.65	-18.11
0.480	Peak	26.30	10.60	36.90	56.34	-19.43
1.423	Peak	23.37	10.71	34.08	56.00	-21.92
1.999	Peak	24.74	10.75	35.49	56.00	-20.51
2.668	Peak	26.94	10.80	37.74	56.00	-18.26
2.880	Peak	26.65	10.82	37.47	56.00	-18.53
13.560	Peak	-	-	-	-	-
27.120	Peak	-	-	-	-	-

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Report Number :TERF2405001271E2

Test Mode :NFC

Power :120V/60Hz

Probe :L1

Note :NFC OFF

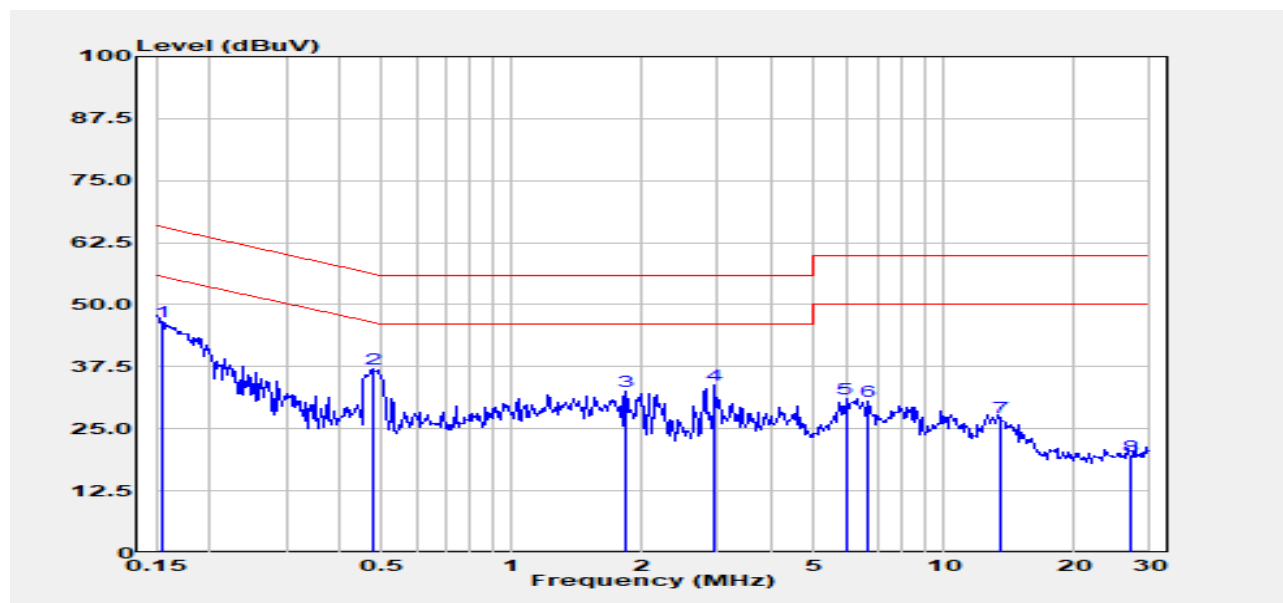
Test Site :Conduction C

Test Date :2024-05-20

Temp./Humi. :23.8°C/59%

Engineer :Howard Huang

Note : LA100PM220



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS		
	PK/QP/AV	dBμV	dB	dBμV	dBμV	dB
0.155	Peak	35.95	10.65	46.60	65.72	-19.12
0.476	Peak	26.41	10.62	37.02	56.41	-19.39
1.836	Peak	21.83	10.76	32.59	56.00	-23.41
2.954	Peak	22.98	10.84	33.82	56.00	-22.18
5.927	Peak	20.10	10.96	31.05	60.00	-28.95
6.675	Peak	19.71	10.96	30.66	60.00	-29.34
13.560	Peak	-	-	-	-	-
27.120	Peak	-	-	-	-	-

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Report Number :TERF2405001271E2

Test Mode :NFC

Power :120V/60Hz

Probe :N

Note :NFC OFF

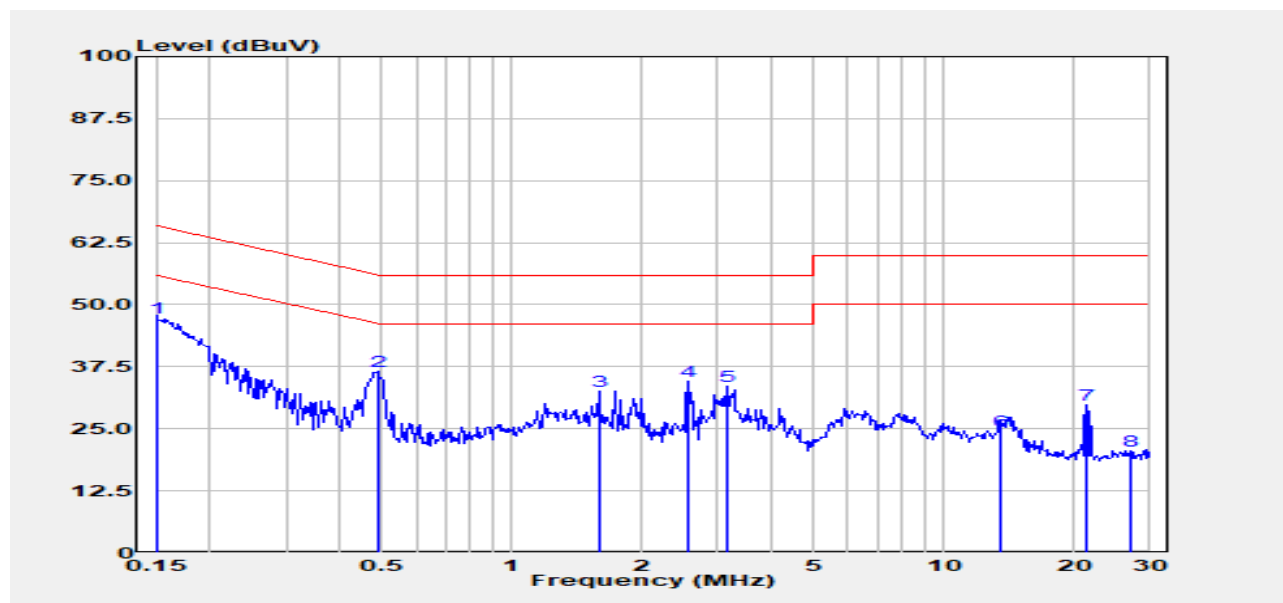
Test Site :Conduction C

Test Date :2024-05-20

Temp./Humi. :23.8°C/59%

Engineer :Howard Huang

Note : LA100PM220



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS		
	PK/QP/AV	dBμV	dB	dBμV	dBμV	dB
0.151	Peak	36.67	10.66	47.33	65.93	-18.60
0.488	Peak	26.02	10.60	36.62	56.20	-19.58
1.589	Peak	21.92	10.72	32.64	56.00	-23.36
2.557	Peak	23.68	10.80	34.48	56.00	-21.52
3.135	Peak	22.82	10.83	33.65	56.00	-22.35
13.560	Peak	-	-	-	-	-
21.361	Peak	18.63	11.20	29.83	60.00	-30.17
27.120	Peak	-	-	-	-	-

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Report Number :TERF2405001271E2

Test Site :Conduction C

Test Mode :NFC

Test Date :2024-05-20

Power :120V/60Hz

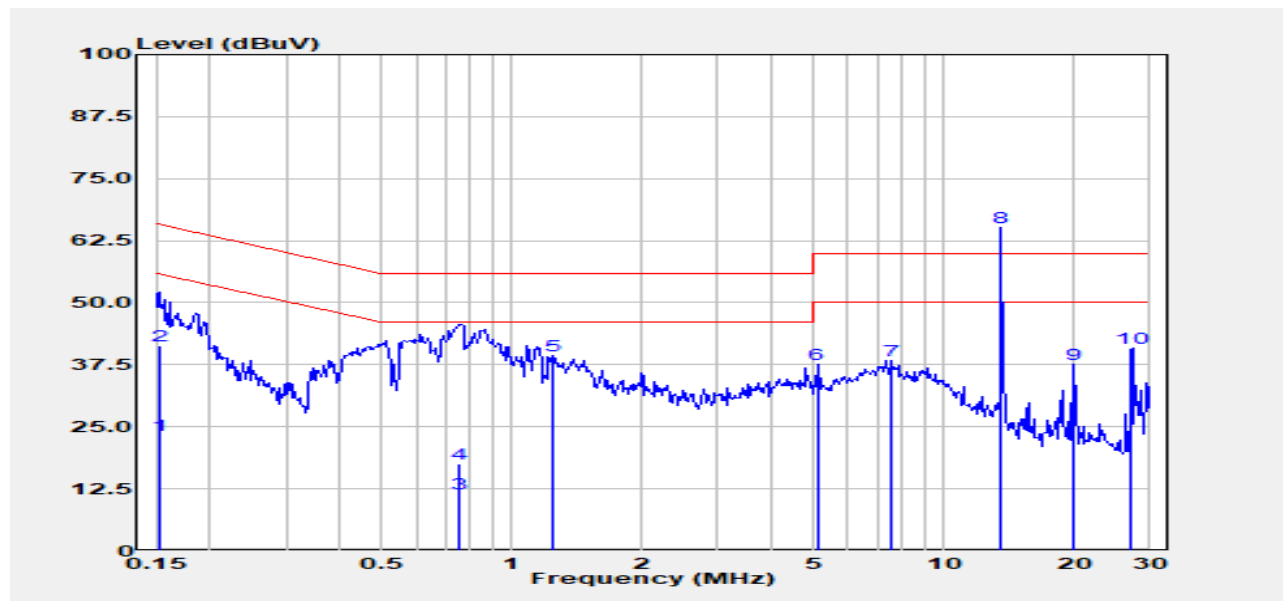
Temp./Humi. :23.8°C/59%

Probe :L1

Engineer :Howard Huang

Note :NFC ON

Note : HA100PM240



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level	dB	FS	dBμV	dB
	PK/QP/AV	dBμV		dBμV		
0.153	Average	12.70	10.65	23.35	55.86	-32.51
0.153	QP	30.60	10.65	41.25	65.86	-24.61
0.759	Average	0.80	10.66	11.46	46.00	-34.54
0.759	QP	7.00	10.66	17.66	56.00	-38.34
1.242	Peak	28.63	10.72	39.34	56.00	-16.66
5.087	Peak	26.67	10.95	37.62	60.00	-22.38
7.517	Peak	27.44	10.96	38.39	60.00	-21.61
13.560	Peak	-	-	-	-	-
19.958	Peak	26.33	11.16	37.49	60.00	-22.51
27.120	Peak	-	-	-	-	-

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Report Number :TERF2405001271E2

Test Site :Conduction C

Test Mode :NFC

Test Date :2024-05-20

Power :120V/60Hz

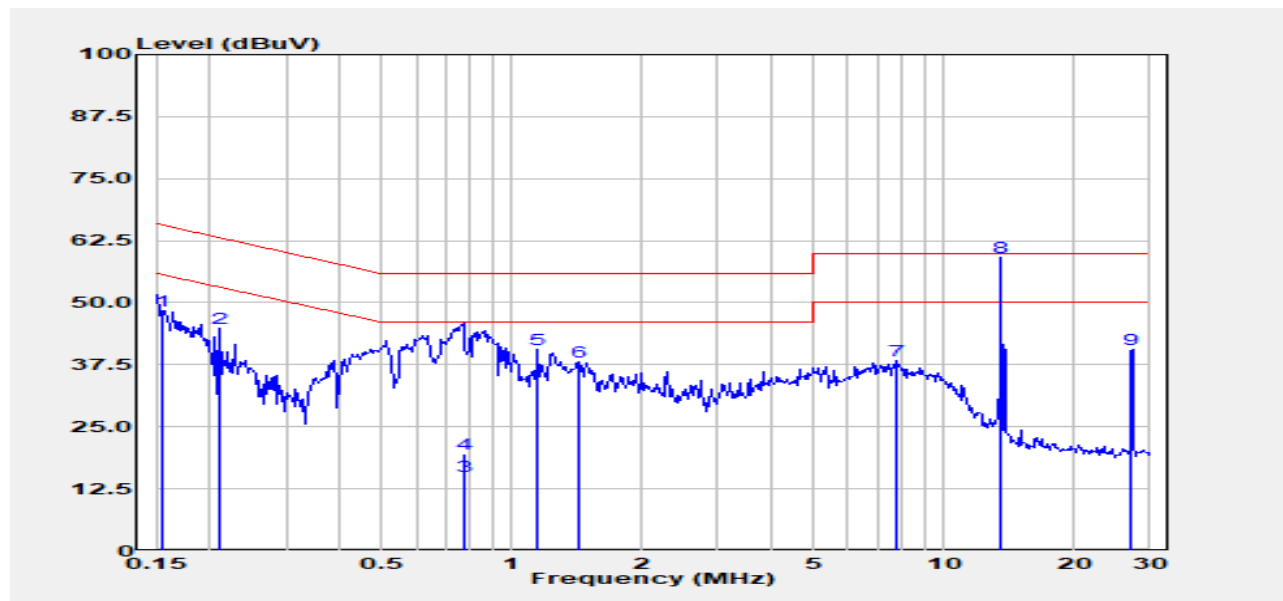
Temp./Humi. :23.8°C/59%

Probe :N

Engineer :Howard Huang

Note :NFC ON

Note : HA100PM240



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level	dB	FS	dBμV	dB
	PK/QP/AV	dBμV		dBμV		
0.155	Peak	37.74	10.66	48.40	65.72	-17.32
0.211	Peak	34.30	10.65	44.94	63.18	-18.23
0.772	Average	4.40	10.64	15.04	46.00	-30.96
0.772	QP	9.00	10.64	19.64	56.00	-36.36
1.151	Peak	29.80	10.69	40.48	56.00	-15.52
1.435	Peak	27.41	10.71	38.12	56.00	-17.88
7.777	Peak	27.50	10.95	38.44	60.00	-21.56
13.560	Peak	-	-	-	-	-
27.120	Peak	-	-	-	-	-

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Report Number :TERF2405001271E2

Test Site :Conduction C

Test Mode :NFC

Test Date :2024-05-20

Power :120V/60Hz

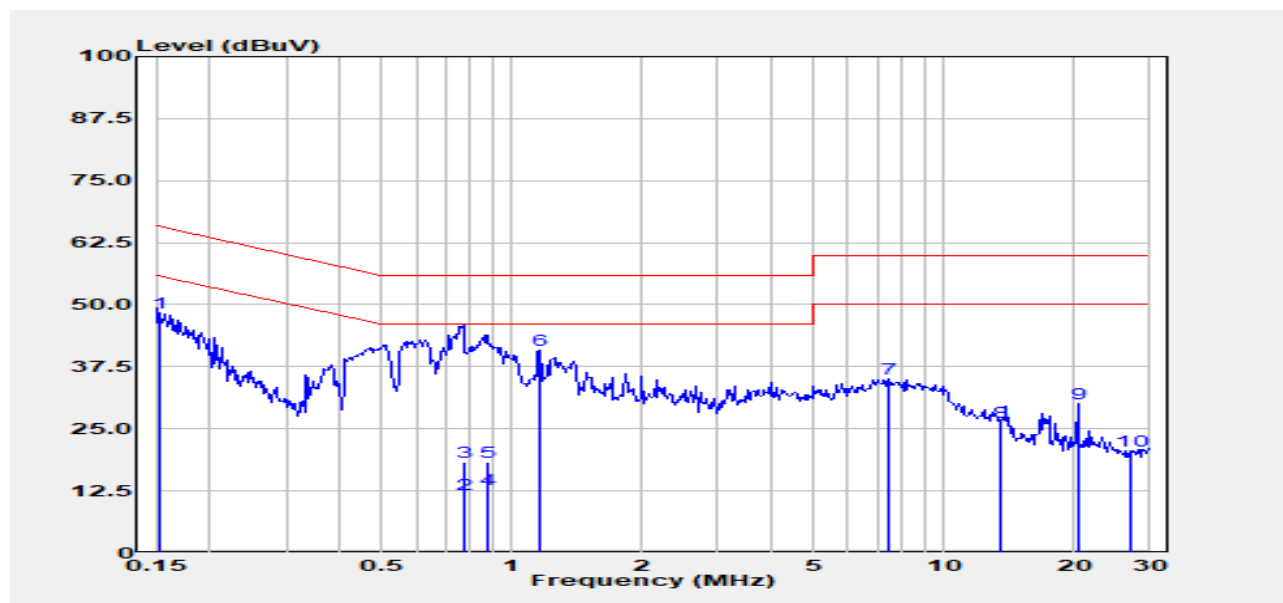
Temp./Humi. :23.8°C/59%

Probe :L1

Engineer :Howard Huang

Note :NFC OFF

Note : HA100PM240



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV	Limit dBμV	Margin dB
0.153	Peak	37.74	10.65	48.39	65.86	-17.47
0.772	Average	1.00	10.66	11.66	46.00	-34.34
0.772	QP	7.70	10.66	18.36	56.00	-37.64
0.877	Average	2.10	10.68	12.78	46.00	-33.22
0.877	QP	7.70	10.68	18.38	56.00	-37.62
1.161	Peak	30.09	10.71	40.79	56.00	-15.21
7.454	Peak	24.01	10.96	34.97	60.00	-25.03
13.560	Peak	-	-	-	-	-
20.473	Peak	18.93	11.17	30.10	60.00	-29.90
27.120	Peak	-	-	-	-	-

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Report Number :TERF2405001271E2

Test Site :Conduction C

Test Mode :NFC

Test Date :2024-05-20

Power :120V/60Hz

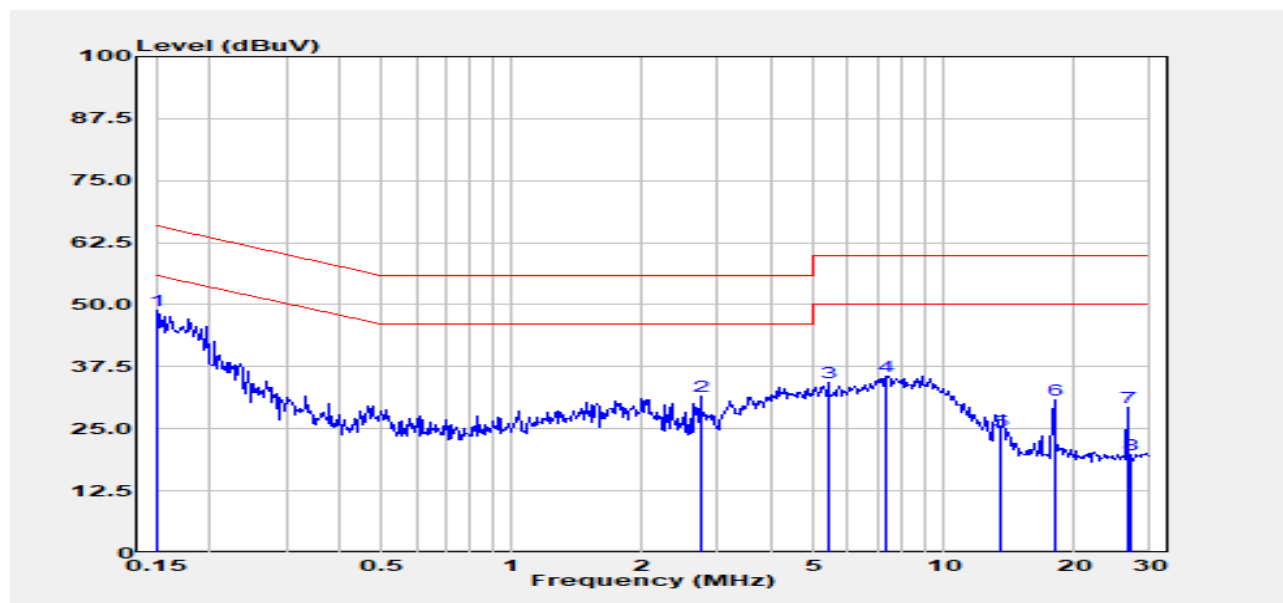
Temp./Humi. :23.8°C/59%

Probe :N

Engineer :Howard Huang

Note :NFC OFF

Note : HA100PM240



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV	Limit dBμV	Margin dB
0.151	Peak	38.31	10.66	48.97	65.93	-16.96
2.737	Peak	20.77	10.81	31.57	56.00	-24.43
5.398	Peak	23.35	10.94	34.29	60.00	-25.71
7.328	Peak	24.60	10.94	35.54	60.00	-24.46
13.560	Peak	-	-	-	-	-
18.025	Peak	19.76	11.13	30.89	60.00	-29.11
26.638	Peak	17.89	11.32	29.21	60.00	-30.79
27.120	Peak	-	-	-	-	-

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Report Number :TERF2405001271E2

Test Mode :NFC

Power :120V/60Hz

Probe :L1

Note :NFC ON

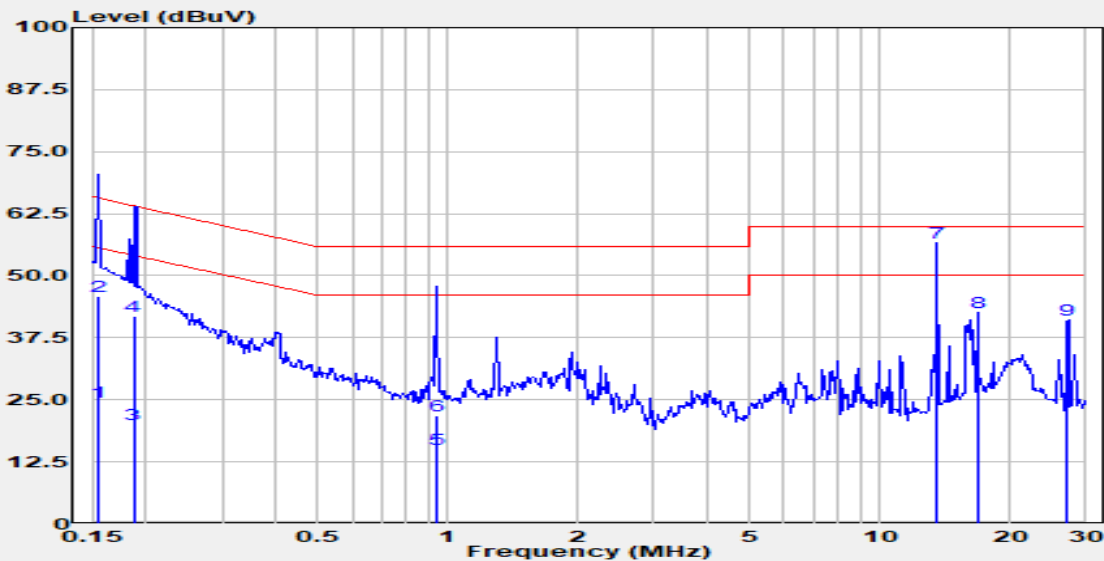
Test Site :Conduction C

Test Date :2024-05-20

Temp./Humi. :23.8°C/59%

Engineer :Howard Huang

Note : DA100PM220



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS		
	PK/QP/AV	dBμV	dB	dBμV	dBμV	dB
0.155	Average	14.00	10.65	24.65	55.72	-31.07
0.155	QP	35.20	10.65	45.85	65.72	-19.87
0.187	Average	9.30	10.65	19.95	54.17	-34.22
0.187	QP	31.20	10.65	41.85	64.17	-22.32
0.939	Average	4.30	10.68	14.98	46.00	-31.02
0.939	QP	11.00	10.68	21.68	56.00	-34.32
13.560	Peak	-	-	-	-	-
16.841	Peak	31.52	11.11	42.63	60.00	-17.37
27.120	Peak	-	-	-	-	-

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Report Number :TERF2405001271E2

Test Site :Conduction C

Test Mode :NFC

Test Date :2024-05-20

Power :120V/60Hz

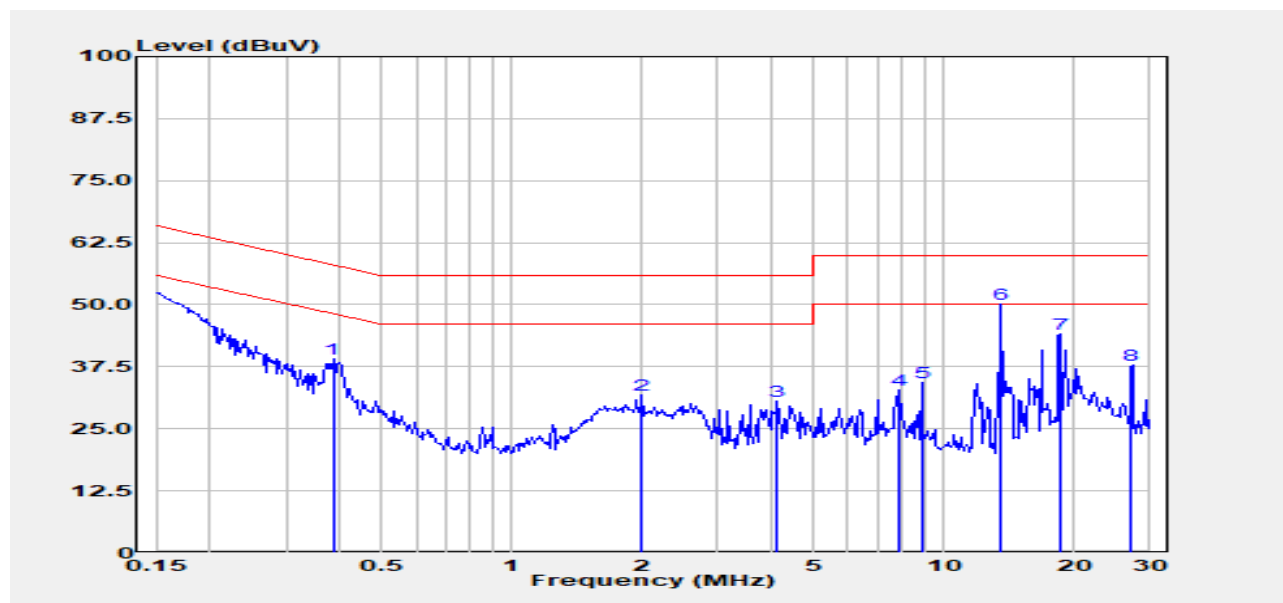
Temp./Humi. :23.8°C/59%

Probe :N

Engineer :Howard Huang

Note :NFC ON

Note : DA100PM220



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS		
	PK/QP/AV	dBμV	dB	dBμV	dBμV	dB
0.385	Peak	28.48	10.61	39.09	58.17	-19.08
1.999	Peak	21.13	10.75	31.88	56.00	-24.12
4.114	Peak	19.69	10.89	30.57	56.00	-25.43
7.910	Peak	21.90	10.95	32.85	60.00	-27.15
8.908	Peak	23.44	10.95	34.39	60.00	-25.61
13.560	Peak	-	-	-	-	-
18.647	Peak	32.93	11.14	44.07	60.00	-15.93
27.120	Peak	-	-	-	-	-

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Test Site :Conduction C

Test Mode :NFC

Test Date :2024-05-20

Power :120V/60Hz

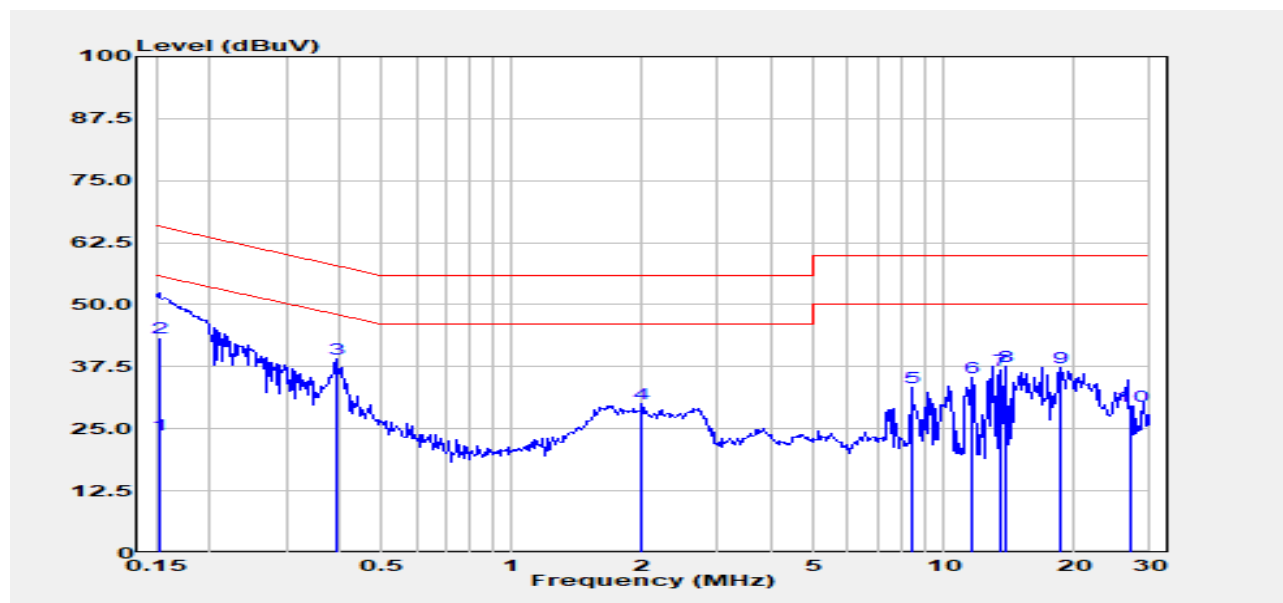
Temp./Humi. :23.8°C/59%

Probe :L1

Engineer :Howard Huang

Note :NFC OFF

Note : DA100PM220



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV	Limit dBμV	Margin dB
0.153	Average	13.10	10.65	23.75	55.86	-32.11
0.153	QP	32.60	10.65	43.25	65.86	-22.61
0.392	Peak	28.44	10.62	39.07	58.03	-18.97
1.999	Peak	19.24	10.77	30.01	56.00	-25.99
8.394	Peak	22.30	10.96	33.26	60.00	-26.74
11.690	Peak	24.37	11.01	35.37	60.00	-24.63
13.560	Peak	-	-	-	-	-
13.971	Peak	26.56	11.06	37.62	60.00	-22.38
18.647	Peak	26.14	11.14	37.28	60.00	-22.72
27.120	Peak	-	-	-	-	-

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Report Number :TERF2405001271E2

Test Site :Conduction C

Test Mode :NFC

Test Date :2024-05-20

Power :120V/60Hz

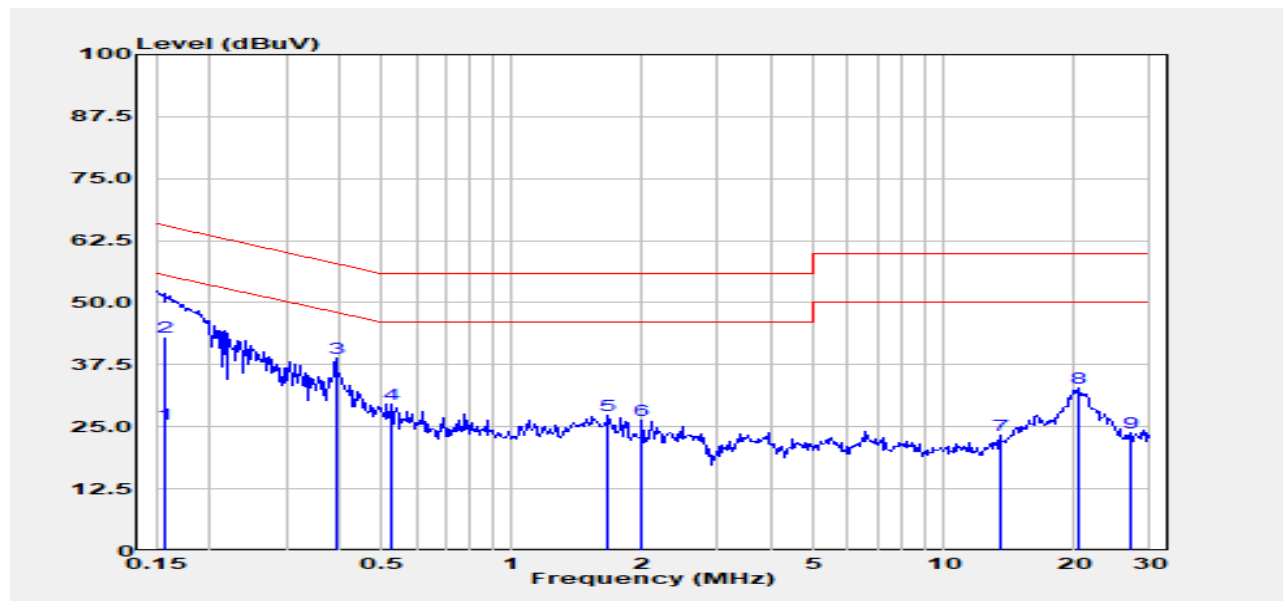
Temp./Humi. :23.8°C/59%

Probe :N

Engineer :Howard Huang

Note :NFC OFF

Note : DA100PM220



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV	Limit dBμV	Margin dB
0.157	Average	14.90	10.66	25.56	55.65	-30.09
0.157	QP	32.40	10.66	43.06	65.65	-22.59
0.392	Peak	28.25	10.61	38.87	58.03	-19.17
0.523	Peak	19.05	10.61	29.66	56.00	-26.34
1.672	Peak	16.48	10.73	27.21	56.00	-28.79
1.999	Peak	15.61	10.75	26.36	56.00	-29.64
13.560	Peak	-	-	-	-	-
20.473	Peak	21.72	11.17	32.89	60.00	-27.11
27.120	Peak	-	-	-	-	-

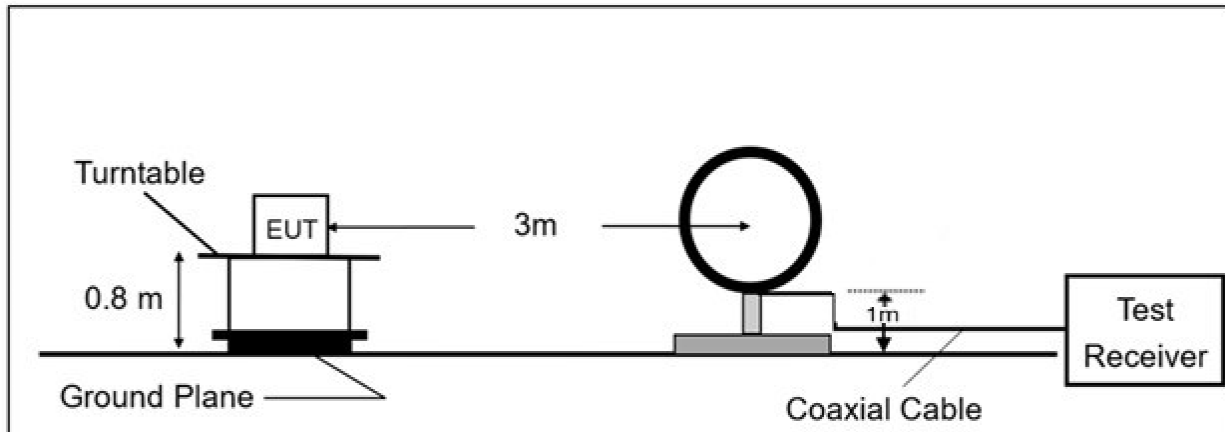
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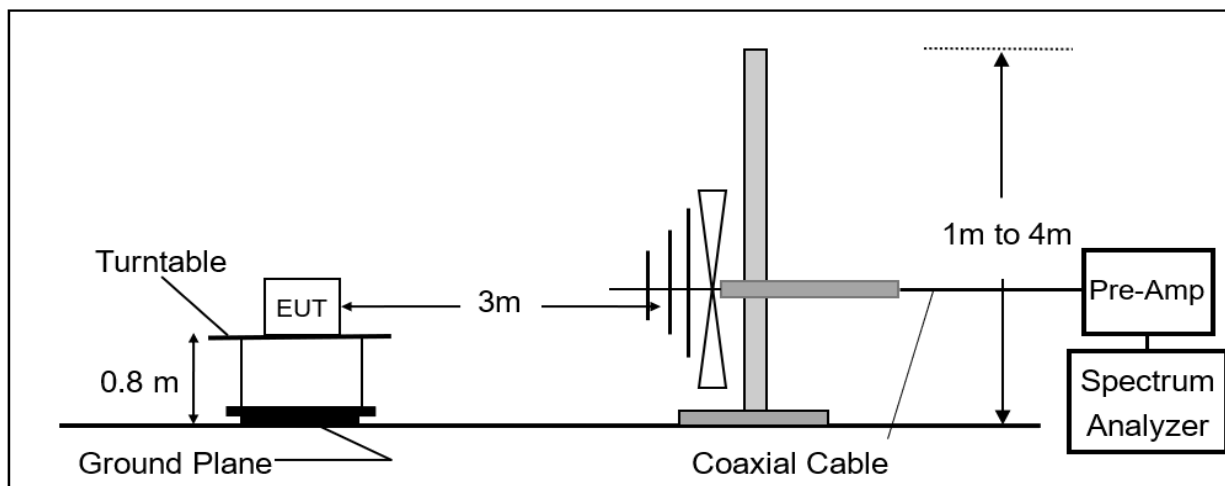
## 8 RADIATED EMISSION TEST

### 8.1 Test SET-UP (Block Diagram of Configuration)

(A) Radiated Emission Test Set-Up, Frequency Below 30MHz.



(B) Radiated Emission Test Set-Up, Frequency From 30MHz to 1000MHz.



### 8.2 Measurement Procedure

1. Configure the EUT according to ANSI C63.10.
2. The EUT was placed on a turn table which is 0.8m above ground plane and been measured in the frequency range between 0.009MHz to 30MHz and 30MHz to 1GHz.
3. The turn table shall rotate 360 degrees to determine the position of maximum emission level.
4. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emission.
5. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
6. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
7. Repeat above procedures until all default test channel measured were complete.

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### 8.3 Field Strength Calculation

The field strength is calculated by adding the Antenna Factor and Cable Factor and subtracting the Amplifier Gain and Duty Cycle Correction Factor (if any) from the measured reading. The basic equation with a sample calculation is as follows:

$$FS = RA + AF + CL - AG$$

Where FS = Field Strength	CL = Cable Attenuation Factor (Cable Loss)
RA = Reading Amplitude	AG = Amplifier Gain
AF = Antenna Factor	

### 8.4 Field Strength of Fundamental Emission

#### 8.4.1 Applicable standard

Rules and specifications	CFR 47 Part 15 section 15.225(a)-(d)	
Frequency of Emission (MHz)	Field Strength (μV/m) at 30m	Field Strength (dBμV/m) at 30m
1.705~13.110	30	29.5
13.110~13.410	106	40.5
13.410~13.553	334	50.5
13.553~13.567	15848	84
13.567~13.710	334	50.5
13.710~14.010	106	40.5
14.010~30.00	30	29.5

#### Radiated Mask per ISED RSS 210 Annex B B6

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

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#### 8.4.2 Distance Extrapolation Factor

##### 30m to 3m

Distance extrapolation =  $40 \cdot \log(30/3) = 40 \text{ dB}$

##### 30m to 10m

Distance extrapolation =  $40 \cdot \log(30/10) = 19.08 \text{ dB}$

##### 10m to 3m

Distance extrapolation =  $40 \cdot \log(10/3) = 20.92 \text{ dB}$

#### Note:

1. Distance extrapolation factor =  $40 \log(\text{required distance} / \text{test distance}) \text{ (dB)}$
2. The lower limit shall apply at the transition frequencies.
3. KDB 414788 D01 OATS and 3m semi-anechoic chamber Justification:  
Base on FCC 15.31 (f) (2): measurements may be performed at a distance closer than that specified in the regulations; however, an attempt should be made to avoid making measurements in the near field. OATS and 3m SAC chamber testing had been performed and 3m SAC measured test result is the worst case test result.

Actual FS(dBμV/m) = Spectrum. Reading level(dBμV) + Factor(dB)

Below 30 MHz of Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Distance Factor (dB)

Above 30 MHz of Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre\_Amp Gain (dB)

The trace on RE(radiation emission) plot is as colored blue, and the detection manner we've employed is peak detector.

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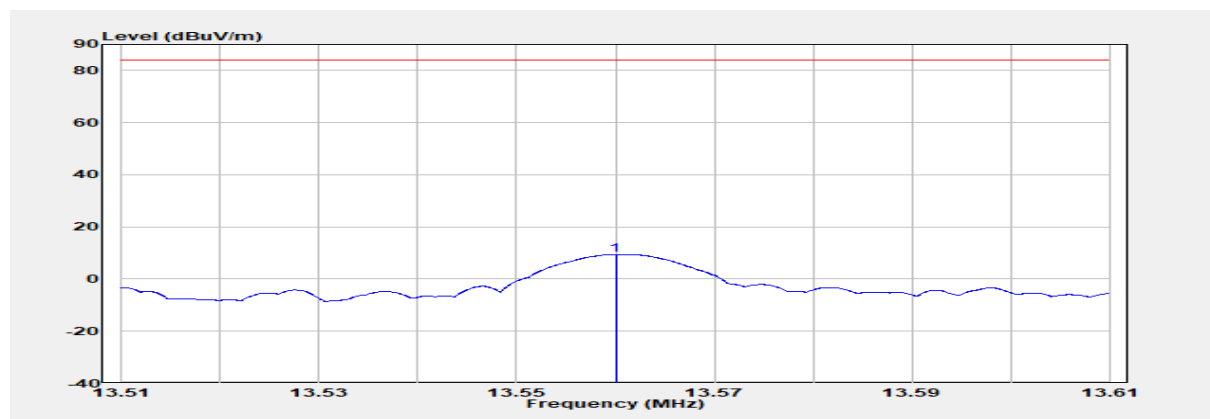
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**8.4.3 Field Strength of Fundamental Emission Measurement Result**

Report Number	:TERF2405001271E2	Test Site	:SAC C
Operation Mode	:NFC	Test Date	:2024-05-08
Test Frequency	:13.56 MHz	Temp./Humi.	:22.8°C/54%
Test Mode	:Main	Antenna Pol.	:Vertical
EUT Pol	:NB Plane	Engineer	:Howard Huang
Note	:Type A		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual dBμV/m	Limit dBμV/m	Margin dB
13.560	Peak	34.08	-24.60	9.48	84.00	-74.52

Actual level = Reading level + Factor

Factor = Antenna factor + cable loss – Pre\_Amplifier Gain – distance factor

Test distance= 3m

For Actual level and limit:

Field strength (dBuV/m) at 300m, within the band 9 kHz - 490 kHz.

Field strength (dBuV/m) at 30m, within the band 490 kHz - 30 MHz.

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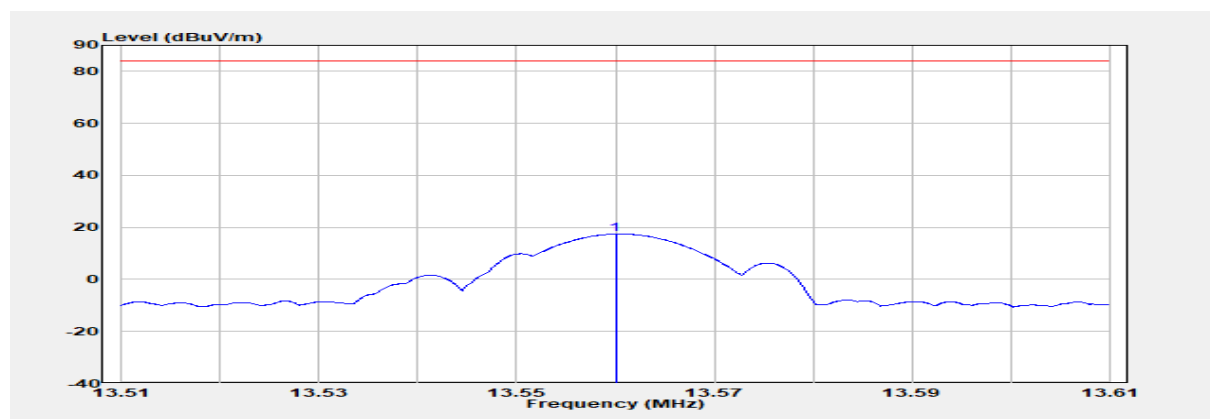
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Report Number	:TERF2405001271E2	Test Site	:SAC C
Operation Mode	:NFC	Test Date	:2024-05-08
Test Frequency	:13.56 MHz	Temp./Humi.	:22.8°C/54%
Test Mode	:Main	Antenna Pol.	:Horizontal
EUT Pol	:NB Plane	Engineer	:Howard Huang
Note	:Type A		



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level				
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
13.560	Peak	42.08	-24.60	17.47	84.00	-66.53

Actual level = Reading level + Factor

Factor = Antenna factor + cable loss – Pre\_Amplifier Gain – distance factor

Test distance= 3m

For Actual level and limit:

Field strength (dBuV/m) at 300m, within the band 9 kHz - 490 kHz.

Field strength (dBuV/m) at 30m, within the band 490 kHz - 30 MHz.

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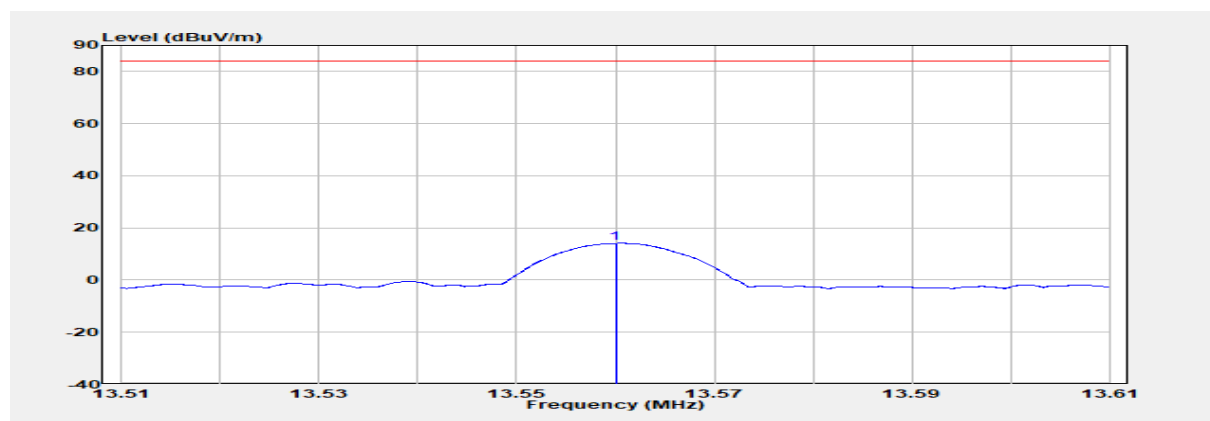
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Report Number	:TERF2405001271E2	Test Site	:SAC C
Operation Mode	:NFC	Test Date	:2024-05-08
Test Frequency	:13.56 MHz	Temp./Humi.	:22.8°C/54%
Test Mode	:Main	Antenna Pol.	:Vertical
EUT Pol	:NB Plane	Engineer	:Howard Huang
Note	:Type B		



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level				
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
13.560	Peak	38.70	-24.60	14.10	84.00	-69.90

Actual level = Reading level + Factor

Factor = Antenna factor + cable loss – Pre\_Amplifier Gain – distance factor

Test distance= 3m

For Actual level and limit:

Field strength (dBuV/m) at 300m, within the band 9 kHz - 490 kHz.

Field strength (dBuV/m) at 30m, within the band 490 kHz - 30 MHz.

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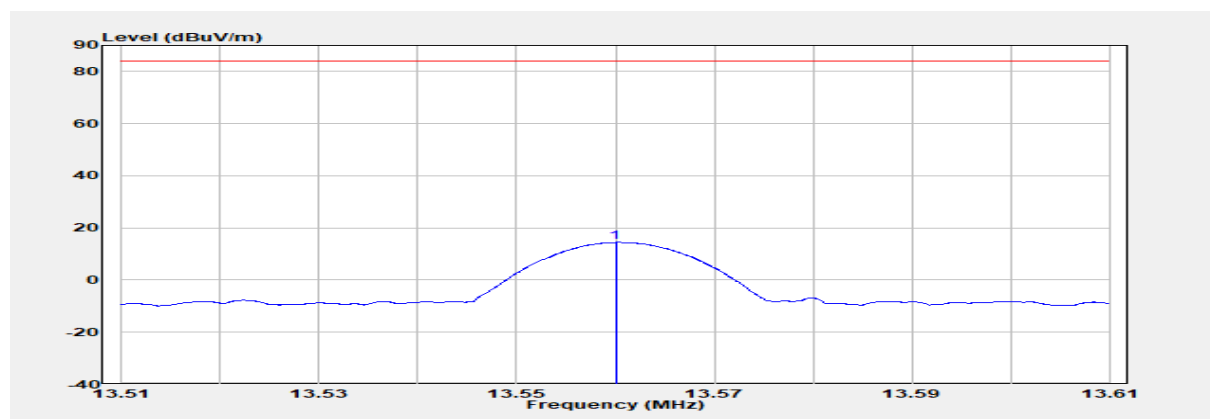
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Report Number	:TERF2405001271E2	Test Site	:SAC C
Operation Mode	:NFC	Test Date	:2024-05-08
Test Frequency	:13.56 MHz	Temp./Humi.	:22.8°C/54%
Test Mode	:Main	Antenna Pol.	:Horizontal
EUT Pol	:NB Plane	Engineer	:Howard Huang
Note	:Type B		



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level				
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
13.560	Peak	39.04	-24.60	14.44	84.00	-69.56

Actual level = Reading level + Factor

Factor = Antenna factor + cable loss – Pre\_Amplifier Gain – distance factor

Test distance= 3m

For Actual level and limit:

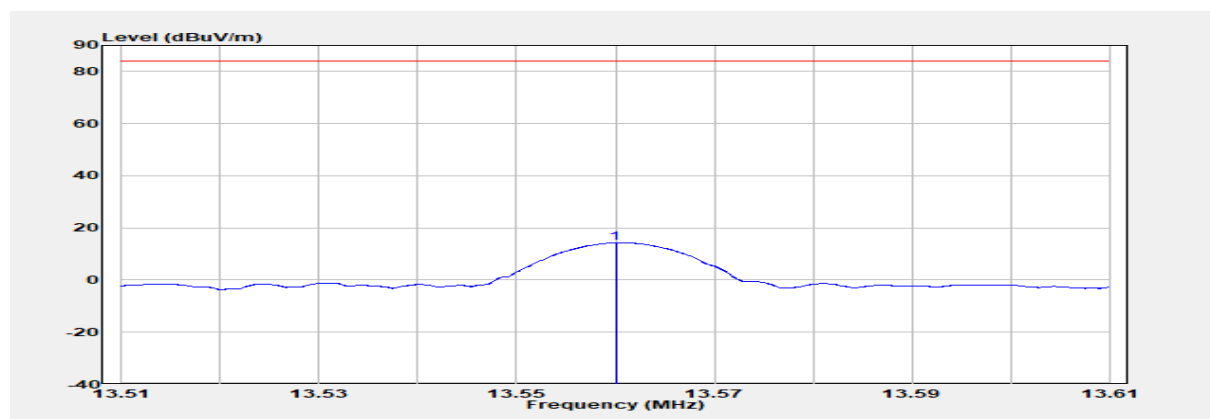
Field strength (dBuV/m) at 300m, within the band 9 kHz - 490 kHz.

Field strength (dBuV/m) at 30m, within the band 490 kHz - 30 MHz.

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Report Number	:TERF2405001271E2	Test Site	:SAC C
Operation Mode	:NFC	Test Date	:2024-05-08
Test Frequency	:13.56 MHz	Temp./Humi.	:22.8°C/54%
Test Mode	:Main	Antenna Pol.	:Vertical
EUT Pol	:NB Plane	Engineer	:Howard Huang
Note	:Type F		



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level				
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
13.560	Peak	38.90	-24.60	14.30	84.00	-69.70

Actual level = Reading level + Factor

Factor = Antenna factor + cable loss – Pre\_Amplifier Gain – distance factor

Test distance= 3m

For Actual level and limit:

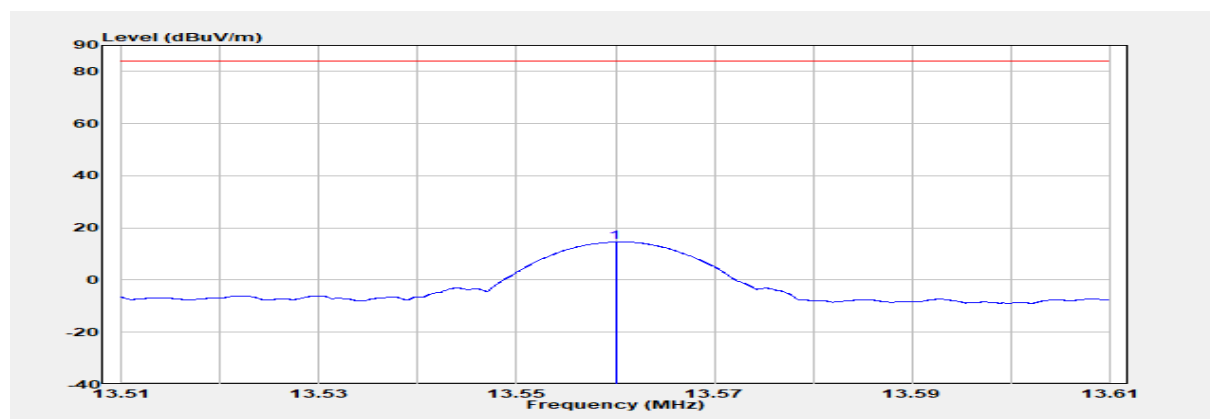
Field strength (dBuV/m) at 300m, within the band 9 kHz - 490 kHz.

Field strength (dBuV/m) at 30m, within the band 490 kHz - 30 MHz.

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Report Number	:TERF2405001271E2	Test Site	:SAC C
Operation Mode	:NFC	Test Date	:2024-05-08
Test Frequency	:13.56 MHz	Temp./Humi.	:22.8°C/54%
Test Mode	:Main	Antenna Pol.	:Horizontal
EUT Pol	:NB Plane	Engineer	:Howard Huang
Note	:Type F		



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level				
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
13.560	Peak	39.22	-24.60	14.62	84.00	-69.38

Actual level = Reading level + Factor

Factor = Antenna factor + cable loss – Pre\_Amplifier Gain – distance factor

Test distance= 3m

For Actual level and limit:

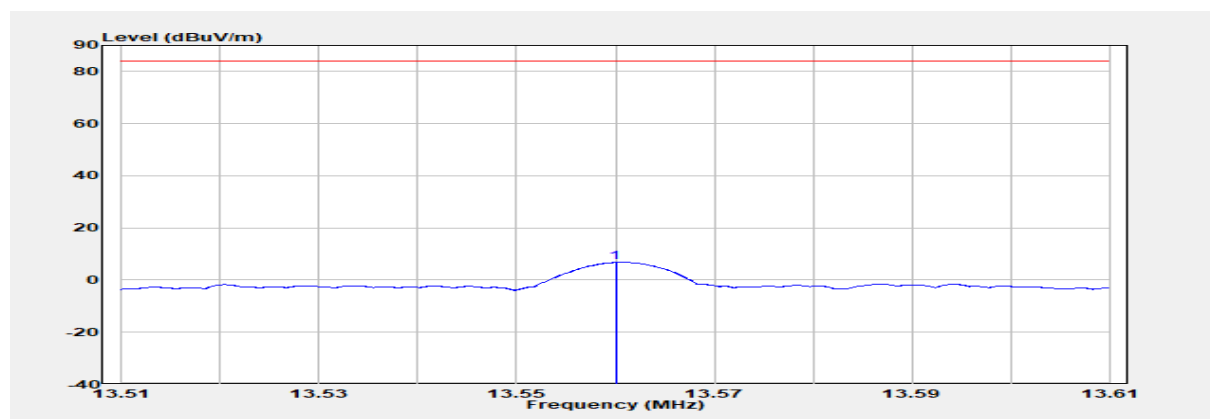
Field strength (dBuV/m) at 300m, within the band 9 kHz - 490 kHz.

Field strength (dBuV/m) at 30m, within the band 490 kHz - 30 MHz.

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Report Number	:TERF2405001271E2	Test Site	:SAC C
Operation Mode	:NFC	Test Date	:2024-05-08
Test Frequency	:13.56 MHz	Temp./Humi.	:22.8°C/54%
Test Mode	:Main	Antenna Pol.	:Vertical
EUT Pol	:NB Plane	Engineer	:Howard Huang
Note	:Type V		



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level				
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
13.560	Peak	31.39	-24.60	6.79	84.00	-77.21

Actual level = Reading level + Factor

Factor = Antenna factor + cable loss – Pre\_Amplifier Gain – distance factor

Test distance= 3m

For Actual level and limit:

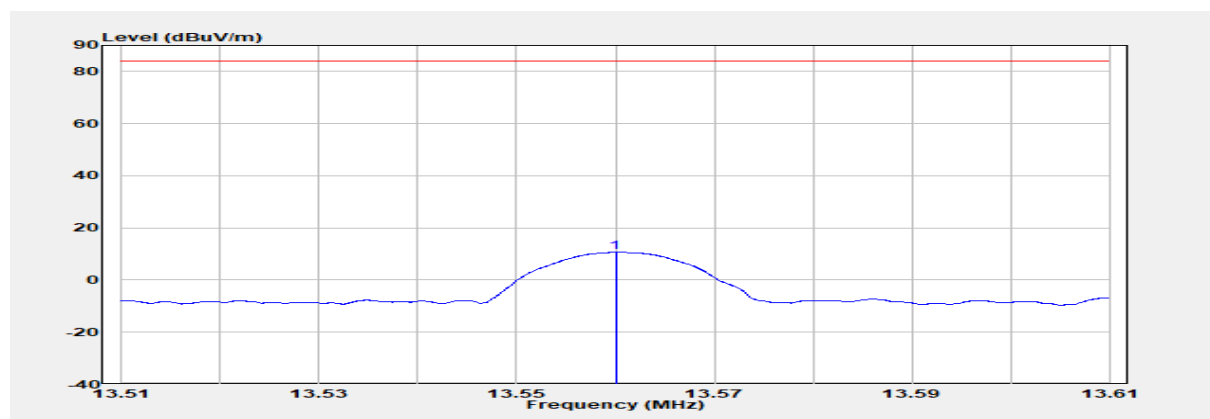
Field strength (dBuV/m) at 300m, within the band 9 kHz - 490 kHz.

Field strength (dBuV/m) at 30m, within the band 490 kHz - 30 MHz.

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Report Number	:TERF2405001271E2	Test Site	:SAC C
Operation Mode	:NFC	Test Date	:2024-05-08
Test Frequency	:13.56 MHz	Temp./Humi.	:22.8°C/54%
Test Mode	:Main	Antenna Pol.	:Horizontal
EUT Pol	:NB Plane	Engineer	:Howard Huang
Note	:Type V		



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level				
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
13.560	Peak	35.21	-24.60	10.61	84.00	-73.39

Actual level = Reading level + Factor

Factor = Antenna factor + cable loss – Pre\_Amplifier Gain – distance factor

Test distance= 3m

For Actual level and limit:

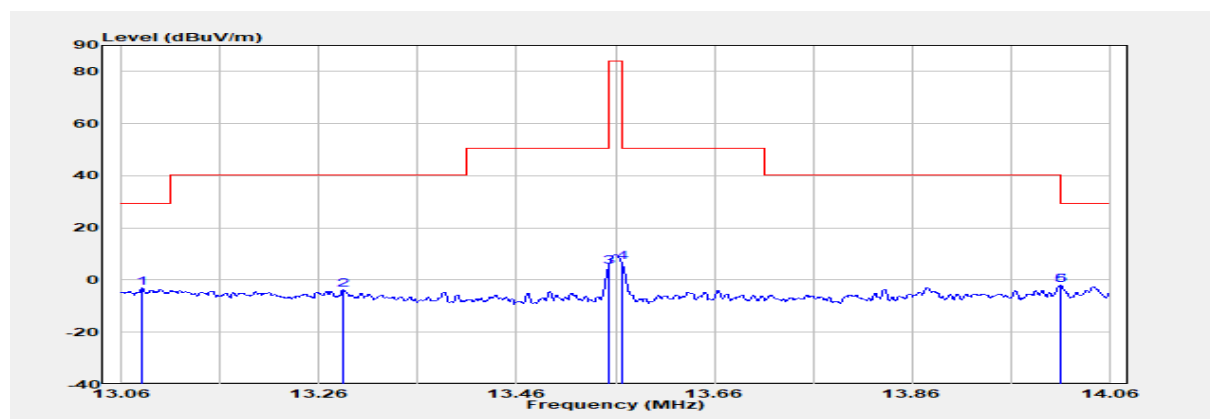
Field strength (dBuV/m) at 300m, within the band 9 kHz - 490 kHz.

Field strength (dBuV/m) at 30m, within the band 490 kHz - 30 MHz.

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Report Number	:TERF2405001271E2	Test Site	:SAC C
Operation Mode	:NFC	Test Date	:2024-05-08
Test Frequency	:13.56 MHz	Temp./Humi.	:22.8°C/54%
Test Mode	:Mask	Antenna Pol.	:Vertical
EUT Pol	:NB Plane	Engineer	:Howard Huang
Note	:Type A		



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level				
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
13.081	Peak	21.42	-24.60	-3.18	29.54	-32.72
13.284	Peak	20.84	-24.60	-3.76	40.50	-44.26
13.553	Peak	29.55	-24.60	4.95	50.47	-45.52
13.567	Peak	31.52	-24.60	6.92	50.47	-43.55
14.010	Peak	22.64	-24.60	-1.97	29.54	-31.51
14.010	Peak	22.64	-24.60	-1.97	29.54	-31.51

Actual level = Reading level + Factor

Factor = Antenna factor + cable loss – Pre\_Amplifier Gain — distance factor

Test distance= 3m

For Actual level and limit:

Field strength (dBuV/m) at 300m, within the band 9 kHz - 490 kHz.

Field strength (dBuV/m) at 30m, within the band 490 kHz - 30 MHz.

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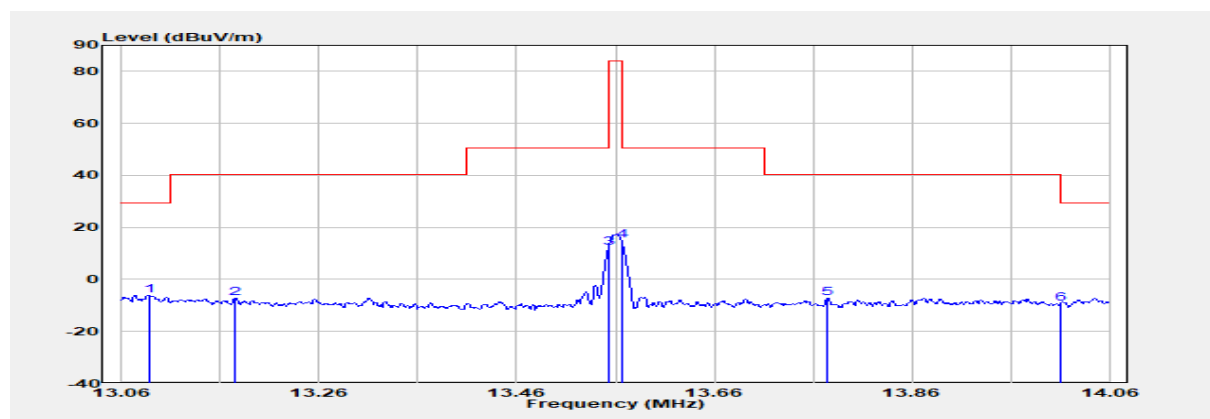
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Report Number	:TERF2405001271E2	Test Site	:SAC C
Operation Mode	:NFC	Test Date	:2024-05-08
Test Frequency	:13.56 MHz	Temp./Humi.	:22.8°C/54%
Test Mode	:Mask	Antenna Pol.	:Horizontal
EUT Pol	:NB Plane	Engineer	:Howard Huang
Note	:Type A		



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level				
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
13.088	Peak	18.55	-24.60	-6.05	29.54	-35.59
13.175	Peak	17.44	-24.60	-7.16	40.50	-47.66
13.553	Peak	36.65	-24.60	12.05	50.47	-38.42
13.566	Peak	39.41	-24.60	14.80	50.47	-35.67
13.775	Peak	17.32	-24.60	-7.29	40.50	-47.79
14.010	Peak	15.25	-24.60	-9.35	29.54	-38.89

Actual level = Reading level + Factor

Factor = Antenna factor + cable loss – Pre\_Amplifier Gain — distance factor

Test distance= 3m

For Actual level and limit:

Field strength (dBuV/m) at 300m, within the band 9 kHz - 490 kHz.

Field strength (dBuV/m) at 30m, within the band 490 kHz - 30 MHz.

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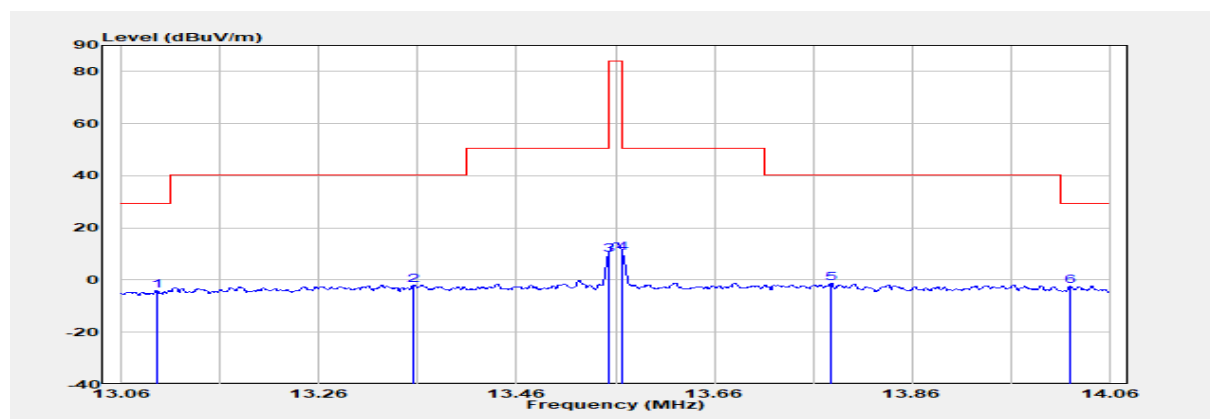
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Report Number	:TERF2405001271E2	Test Site	:SAC C
Operation Mode	:NFC	Test Date	:2024-05-08
Test Frequency	:13.56 MHz	Temp./Humi.	:22.8°C/54%
Test Mode	:Mask	Antenna Pol.	:Vertical
EUT Pol	:NB Plane	Engineer	:Howard Huang
Note	:Type B		



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level				
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
13.095	Peak	20.48	-24.60	-4.12	29.54	-33.66
13.356	Peak	22.77	-24.60	-1.83	40.50	-42.33
13.553	Peak	34.19	-24.60	9.59	50.47	-40.88
13.567	Peak	35.15	-24.60	10.55	50.47	-39.92
13.779	Peak	23.47	-24.60	-1.13	40.50	-41.63
14.021	Peak	22.21	-24.60	-2.39	29.54	-31.93

Actual level = Reading level + Factor

Factor = Antenna factor + cable loss – Pre\_Amplifier Gain — distance factor

Test distance= 3m

For Actual level and limit:

Field strength (dBuV/m) at 300m, within the band 9 kHz - 490 kHz.

Field strength (dBuV/m) at 30m, within the band 490 kHz - 30 MHz.

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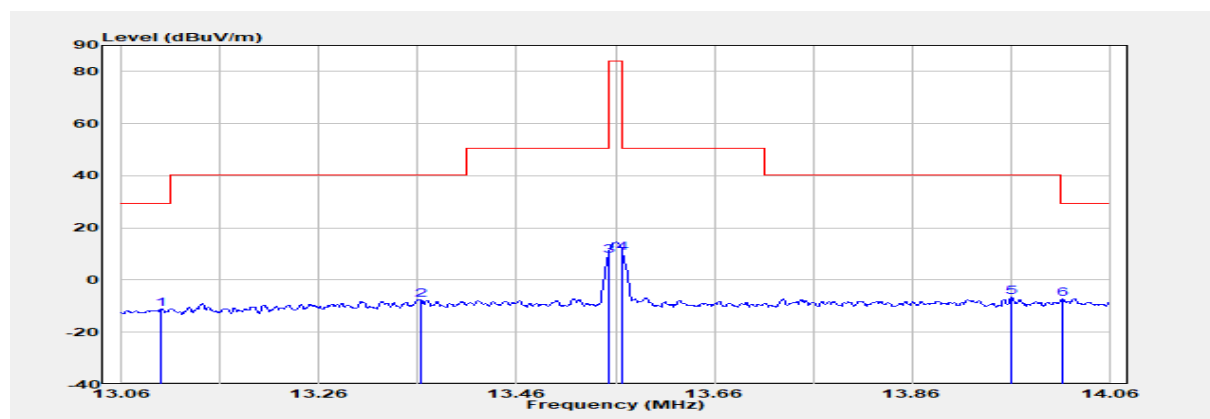
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Report Number	:TERF2405001271E2	Test Site	:SAC C
Operation Mode	:NFC	Test Date	:2024-05-08
Test Frequency	:13.56 MHz	Temp./Humi.	:22.8°C/54%
Test Mode	:Mask	Antenna Pol.	:Horizontal
EUT Pol	:NB Plane	Engineer	:Howard Huang
Note	:Type B		



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level				
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
13.100	Peak	13.66	-24.60	-10.94	29.54	-40.48
13.363	Peak	17.06	-24.60	-7.54	40.50	-48.04
13.553	Peak	34.00	-24.60	9.40	50.47	-41.07
13.567	Peak	35.15	-24.60	10.55	50.47	-39.92
13.961	Peak	18.02	-24.60	-6.59	40.50	-47.09
14.012	Peak	17.45	-24.60	-7.16	29.54	-36.70

Actual level = Reading level + Factor

Factor = Antenna factor + cable loss – Pre\_Amplifier Gain — distance factor

Test distance= 3m

For Actual level and limit:

Field strength (dBuV/m) at 300m, within the band 9 kHz - 490 kHz.

Field strength (dBuV/m) at 30m, within the band 490 kHz - 30 MHz.

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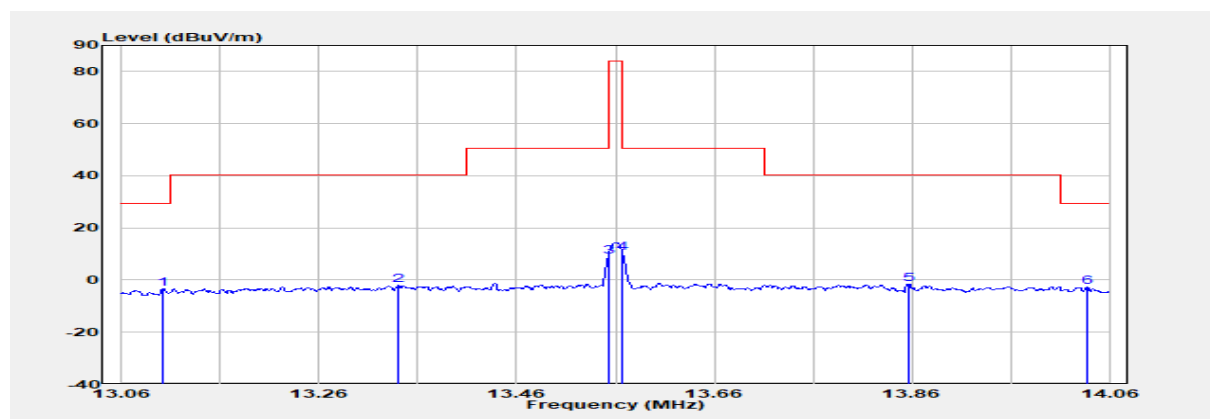
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Report Number	:TERF2405001271E2	Test Site	:SAC C
Operation Mode	:NFC	Test Date	:2024-05-08
Test Frequency	:13.56 MHz	Temp./Humi.	:22.8°C/54%
Test Mode	:Mask	Antenna Pol.	:Vertical
EUT Pol	:NB Plane	Engineer	:Howard Huang
Note	:Type F		



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level				
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
13.102	Peak	21.40	-24.60	-3.20	29.54	-32.74
13.340	Peak	22.48	-24.60	-2.12	40.50	-42.62
13.553	Peak	33.68	-24.60	9.08	50.47	-41.39
13.567	Peak	35.10	-24.60	10.49	50.47	-39.98
13.857	Peak	23.00	-24.60	-1.60	40.50	-42.10
14.037	Peak	21.82	-24.60	-2.78	29.54	-32.32

Actual level = Reading level + Factor

Factor = Antenna factor + cable loss – Pre\_Amplifier Gain — distance factor

Test distance= 3m

For Actual level and limit:

Field strength (dBuV/m) at 300m, within the band 9 kHz - 490 kHz.

Field strength (dBuV/m) at 30m, within the band 490 kHz - 30 MHz.

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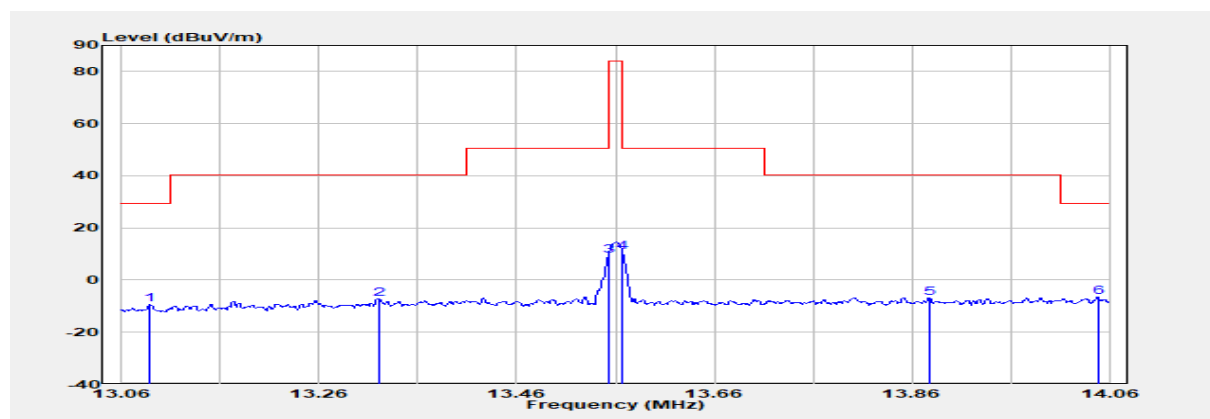
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Report Number	:TERF2405001271E2	Test Site	:SAC C
Operation Mode	:NFC	Test Date	:2024-05-08
Test Frequency	:13.56 MHz	Temp./Humi.	:22.8°C/54%
Test Mode	:Mask	Antenna Pol.	:Horizontal
EUT Pol	:NB Plane	Engineer	:Howard Huang
Note	:Type F		



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level				
	PK/QP/AV	dB $\mu$ V	dB	dB $\mu$ V/m	dB $\mu$ V/m	dB
13.089	Peak	15.09	-24.60	-9.52	29.54	-39.06
13.320	Peak	17.45	-24.60	-7.16	40.50	-47.66
13.553	Peak	33.94	-24.60	9.34	50.47	-41.13
13.567	Peak	35.20	-24.60	10.59	50.47	-39.88
13.878	Peak	17.85	-24.60	-6.75	40.50	-47.25
14.049	Peak	18.02	-24.60	-6.58	29.54	-36.12

Actual level = Reading level + Factor

Factor = Antenna factor + cable loss – Pre\_Amplifier Gain — distance factor

Test distance= 3m

For Actual level and limit:

Field strength (dBuV/m) at 300m, within the band 9 kHz - 490 kHz.

Field strength (dBuV/m) at 30m, within the band 490 kHz - 30 MHz.

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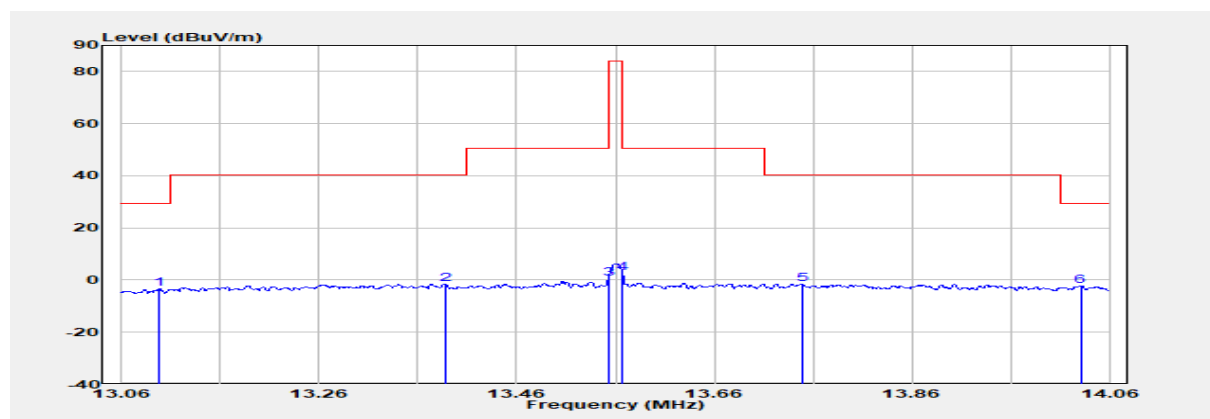
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Report Number	:TERF2405001271E2	Test Site	:SAC C
Operation Mode	:NFC	Test Date	:2024-05-08
Test Frequency	:13.56 MHz	Temp./Humi.	:22.8°C/54%
Test Mode	:Mask	Antenna Pol.	:Vertical
EUT Pol	:NB Plane	Engineer	:Howard Huang
Note	:Type V		



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level				
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
13.098	Peak	21.27	-24.60	-3.33	29.54	-32.87
13.388	Peak	22.97	-24.60	-1.63	40.50	-42.13
13.553	Peak	25.15	-24.60	0.54	50.47	-49.93
13.567	Peak	27.09	-24.60	2.49	50.47	-47.98
13.749	Peak	23.16	-24.60	-1.45	40.50	-41.95
14.031	Peak	22.35	-24.60	-2.25	29.54	-31.79

Actual level = Reading level + Factor

Factor = Antenna factor + cable loss – Pre\_Amplifier Gain — distance factor

Test distance= 3m

For Actual level and limit:

Field strength (dBuV/m) at 300m, within the band 9 kHz - 490 kHz.

Field strength (dBuV/m) at 30m, within the band 490 kHz - 30 MHz.

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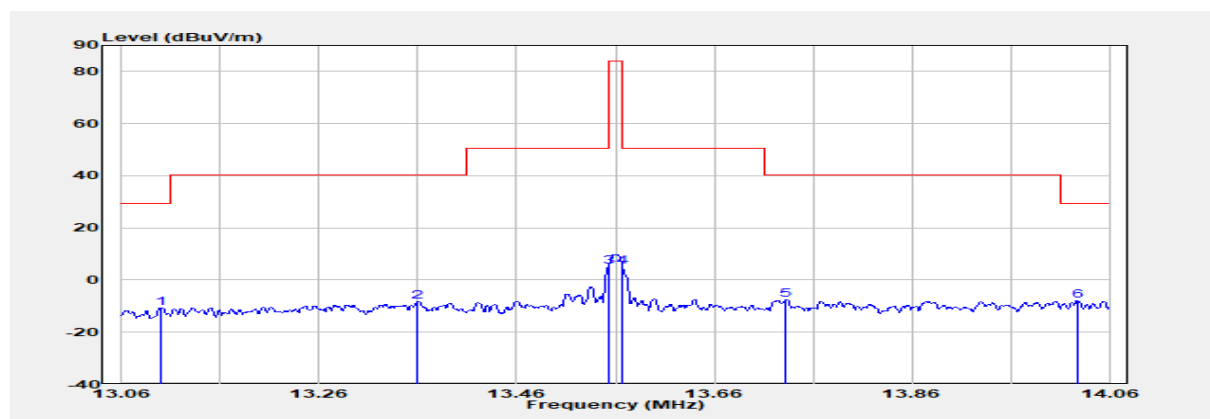
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Report Number	:TERF2405001271E2	Test Site	:SAC C
Operation Mode	:NFC	Test Date	:2024-05-08
Test Frequency	:13.56 MHz	Temp./Humi.	:22.8°C/54%
Test Mode	:Mask	Antenna Pol.	:Horizontal
EUT Pol	:NB Plane	Engineer	:Howard Huang
Note	:Type V		



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level				
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
13.100	Peak	13.89	-24.60	-10.71	29.54	-40.25
13.360	Peak	16.19	-24.60	-8.41	40.50	-48.91
13.553	Peak	29.66	-24.60	5.06	50.47	-45.41
13.567	Peak	29.57	-24.60	4.97	50.47	-45.50
13.733	Peak	16.92	-24.60	-7.69	40.50	-48.19
14.028	Peak	16.65	-24.60	-7.96	29.54	-37.50

Actual level = Reading level + Factor

Factor = Antenna factor + cable loss – Pre\_Amplifier Gain — distance factor

Test distance= 3m

For Actual level and limit:

Field strength (dBuV/m) at 300m, within the band 9 kHz - 490 kHz.

Field strength (dBuV/m) at 30m, within the band 490 kHz - 30 MHz.

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.

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## 8.5 Radiated Spurious Emission Measurement

### 8.5.1 Standard Applicable

The field strength of any emissions appearing outside of the 13.110-14.010 MHz shall not exceed the general radiated emission limits as below.

Frequency (MHz)	Field strength (μV/m)	Distance (meters)
0.009~0.490	2400/F(kHz)	300
0.490~1.705	24000/F(kHz)	30
1.705-30	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

**Note:**

1. Emission level in  $\text{dB}\mu\text{V/m} = 20 \log (\mu\text{V/m})$
2. Distance extrapolation factor =  $40 \log (\text{required distance/ test distance})$  (dB)
3.  $20 * \log(30 \mu\text{V/m}) = 29.54 \text{ dBuV/m}$
4. The lower limit shall apply at the transition frequencies.
5. The measurement was undertaken in closer distance at 3m, where extrapolation factor is offset to convert the limit of the measurement.
6. Only spurious frequency is permitted to locate within the Restricted Bands specified in provision of §15.205 and RSS-Gen §8.10.
7. The general radiated emission limits in §15.209 and RSS-Gen §8.9 apply for the spurious emission generate from UE, except for the fundamental emission where the respective section specifies otherwise.

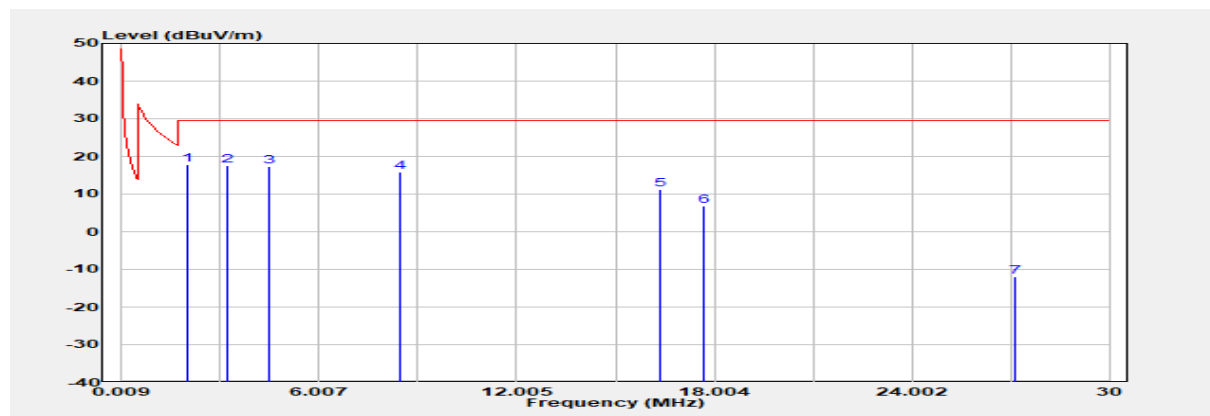
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**8.5.2 Radiated Spurious Emission Measurement Result**

Report Number	:TERF2405001271E2	Test Site	:SAC C
Operation Mode	:NFC	Test Date	:2024-05-08
Test Frequency	:13.56 MHz	Temp./Humi.	:22.8°C/54%
Test Mode	:Tx	Antenna Pol.	:Vertical
EUT Pol	:NB Plane	Engineer	:Howard Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual dBμV/m	Limit dBμV/m	Margin dB
2.018	Peak	43.85	-26.06	17.79	29.54	-11.75
3.218	Peak	43.37	-25.71	17.66	29.54	-11.88
4.508	Peak	42.88	-25.44	17.44	29.54	-12.10
8.466	Peak	40.60	-24.83	15.78	29.54	-13.76
16.354	Peak	35.76	-24.61	11.15	29.54	-18.39
17.704	Peak	31.41	-24.61	6.80	29.54	-22.74
27.120	Peak	14.40	-26.33	-11.94	29.54	-41.48

Actual level = Reading level + Factor

Factor = Antenna factor + cable loss – Pre\_Amplifier Gain — distance factor

Test distance= 3m

For Actual level and limit:

Field strength (dBuV/m) at 300m, within the band 9 kHz - 490 kHz.

Field strength (dBuV/m) at 30m, within the band 490 kHz - 30 MHz.

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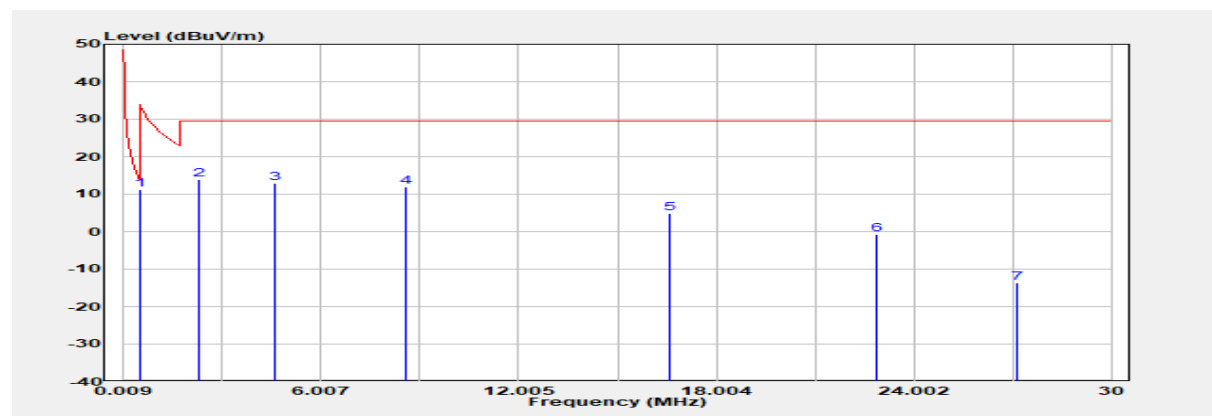
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Report Number	:TERF2405001271E2	Test Site	:SAC C
Operation Mode	:NFC	Test Date	:2024-05-08
Test Frequency	:13.56 MHz	Temp./Humi.	:22.8°C/54%
Test Mode	:Tx	Antenna Pol.	:Horizontal
EUT Pol	:NB Plane	Engineer	:Howard Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual dB $\mu$ V/m	Limit dB $\mu$ V/m	Margin dB
0.519	Peak	37.82	-26.67	11.15	33.31	-22.16
2.288	Peak	39.94	-25.98	13.96	29.54	-15.58
4.598	Peak	38.31	-25.42	12.88	29.54	-16.66
8.556	Peak	36.66	-24.81	11.85	29.54	-17.69
16.594	Peak	29.43	-24.61	4.82	29.54	-24.72
22.862	Peak	24.58	-25.31	-0.73	29.54	-30.27
27.120	Peak	12.64	-26.33	-13.69	29.54	-43.23

Actual level = Reading level + Factor

Factor = Antenna factor + cable loss – Pre\_Amplifier Gain — distance factor

Test distance= 3m

For Actual level and limit:

Field strength (dBuV/m) at 300m, within the band 9 kHz - 490 kHz.

Field strength (dBuV/m) at 30m, within the band 490 kHz - 30 MHz.

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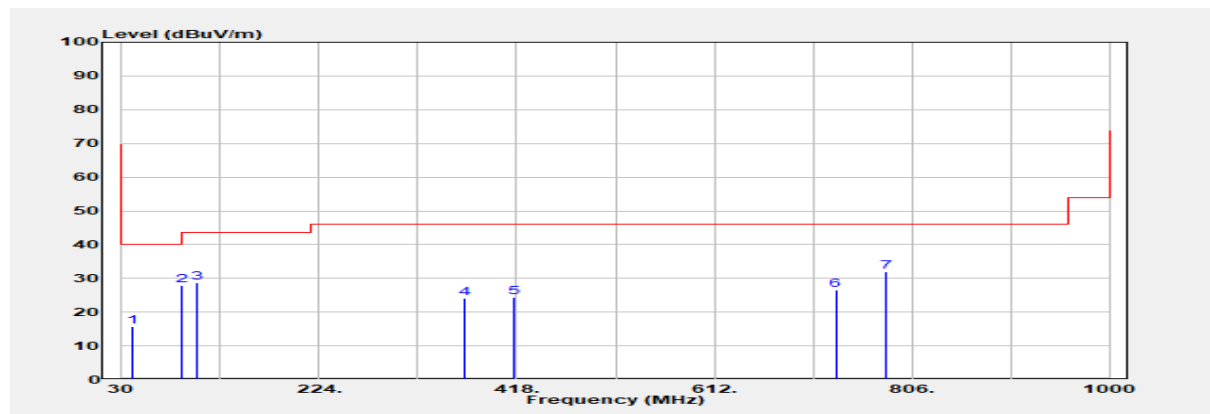
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Report Number	:TERF2405001271E2	Test Site	:SAC C
Operation Mode	:NFC	Test Date	:2024-05-08
Test Frequency	:13.56 MHz	Temp./Humi.	:22.8°C/54%
Test Mode	:Tx	Antenna Pol.	:Vertical
EUT Pol	:NB Plane	Engineer	:Howard Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual dB $\mu$ V/m	Limit dB $\mu$ V/m	Margin dB
40.680	Peak	32.37	-16.77	15.60	40.00	-24.40
89.170	Peak	49.56	-21.72	27.84	43.50	-15.66
103.720	Peak	48.93	-20.10	28.83	43.50	-14.67
367.560	Peak	37.10	-12.96	24.15	46.00	-21.85
415.090	Peak	35.79	-11.53	24.26	46.00	-21.74
731.310	Peak	31.20	-4.63	26.58	46.00	-19.42
780.780	Peak	35.75	-3.64	32.11	46.00	-13.89

Actual level = Reading level + Factor

Factor = Antenna factor + cable loss – Pre\_Amplifier Gain — distance factor

Test distance= 3m

For Actual level and limit:

Field strength (dBuV/m) at 300m, within the band 9 kHz - 490 kHz.

Field strength (dBuV/m) at 30m, within the band 490 kHz - 30 MHz.

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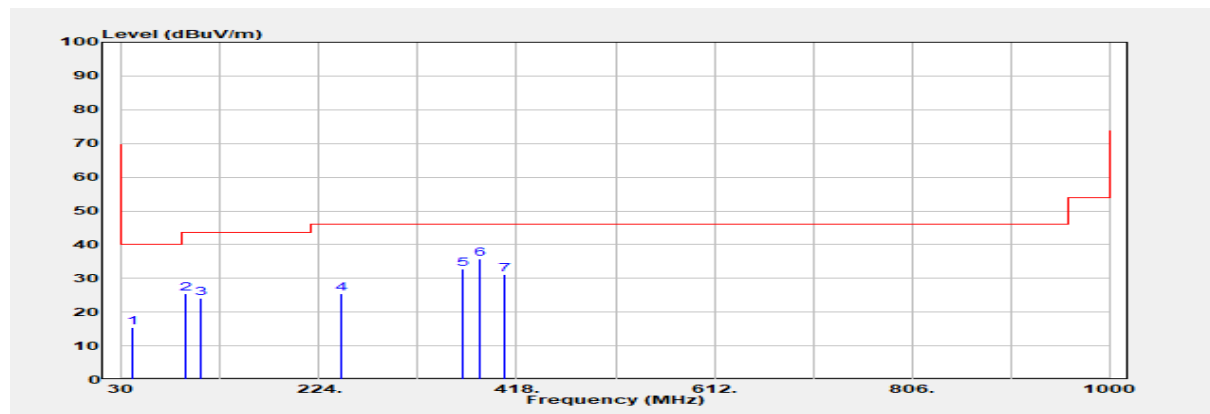
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Report Number	:TERF2405001271E2	Test Site	:SAC C
Operation Mode	:NFC	Test Date	:2024-05-08
Test Frequency	:13.56 MHz	Temp./Humi.	:22.8°C/54%
Test Mode	:Tx	Antenna Pol.	:Horizontal
EUT Pol	:NB Plane	Engineer	:Howard Huang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB $\mu$ V	Factor dB	Actual dB $\mu$ V/m	Limit dB $\mu$ V/m	Margin dB
40.680	Peak	32.27	-16.77	15.51	40.00	-24.49
92.080	Peak	47.09	-21.59	25.51	43.50	-17.99
107.600	Peak	43.72	-19.50	24.22	43.50	-19.28
246.310	Peak	42.35	-16.82	25.54	46.00	-20.46
364.650	Peak	45.79	-13.11	32.68	46.00	-13.32
382.110	Peak	48.41	-12.77	35.64	46.00	-10.36
405.390	Peak	43.00	-11.82	31.18	46.00	-14.82

Actual level = Reading level + Factor

Factor = Antenna factor + cable loss – Pre\_Amplifier Gain — distance factor

Test distance= 3m

For Actual level and limit:

Field strength (dBuV/m) at 300m, within the band 9 kHz - 490 kHz.

Field strength (dBuV/m) at 30m, within the band 490 kHz - 30 MHz.

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## 9 FREQUENCY STABILITY

### 9.1 Applicable Standard

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.

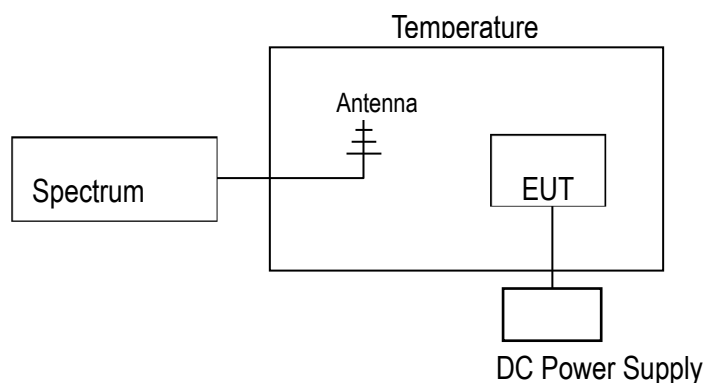
Carrier frequency stability shall be maintained to  $\pm 0.01\%$  ( $\pm 100$  ppm).

For licence-exempt radio apparatus, the frequency stability shall be measured at temperatures of  $-20^{\circ}\text{C}$  ( $-4^{\circ}\text{F}$ ),  $+20^{\circ}\text{C}$  ( $+68^{\circ}\text{F}$ ) and  $+50^{\circ}\text{C}$  ( $+122^{\circ}\text{F}$ ).

### 9.2 Measurement Procedure

1. The EUT was placed on a turn table which is 0.8m above ground plane.
2. Set EUT as normal operation
3. Set SPA Center Frequency = fundamental frequency, RBW, VBW= 10kHz, Span =100kHz.
4. Set SPA Max hold. Mark peak.

### 9.3 Test SET-UP (Block Diagram of Configuration)



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## 9.4 Measurement Results

### Startup

#### A. Temperature Variation

Power Supply	Environment	Frequency	Delta (kHz)	Limit (kHz)
Vdc	Temperature (°C)	(MHz)		
120	-20	13.56026	0.26000	+/- 1.356
120	-10	13.56026	0.26000	+/- 1.356
120	0	13.56025	0.25000	+/- 1.356
120	10	13.56025	0.25000	+/- 1.356
120	20	13.56026	0.26000	+/- 1.356
120	30	13.56024	0.24000	+/- 1.356
120	40	13.56024	0.24000	+/- 1.356
120	50	13.56026	0.26000	+/- 1.356

#### B. Supply Voltage Variation

Power Supply	Environment	Frequency	Delta (kHz)	Limit (kHz)
Vdc	Temperature (°C)	(MHz)		
138	20	13.56024	0.24000	+/- 1.356
120	20	13.56026	0.26000	+/- 1.356
102	20	13.56025	0.25000	+/- 1.356

### 2 minutes

#### A. Temperature Variation

Power Supply	Environment	Frequency	Delta (kHz)	Limit (kHz)
Vdc	Temperature (°C)	(MHz)		
120	-20	13.56024	0.24000	+/- 1.356
120	-10	13.56024	0.24000	+/- 1.356
120	0	13.56024	0.24000	+/- 1.356
120	10	13.56025	0.25000	+/- 1.356
120	20	13.56025	0.25000	+/- 1.356
120	30	13.56025	0.25000	+/- 1.356
120	40	13.56024	0.24000	+/- 1.356
120	50	13.56024	0.24000	+/- 1.356

#### B. Supply Voltage Variation

Power Supply	Environment	Frequency	Delta (kHz)	Limit (kHz)
Vdc	Temperature (°C)	(MHz)		
138	20	13.56024	0.24000	+/- 1.356
120	20	13.56025	0.25000	+/- 1.356
102	20	13.56026	0.26000	+/- 1.356

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## 5 minutes

## A. Temperature Variation

Power Supply	Environment	Frequency	Delta (kHz)	Limit (kHz)
Vdc	Temperature (°C)	(MHz)		
120	-20	13.56026	0.26000	+/- 1.356
120	-10	13.56026	0.26000	+/- 1.356
120	0	13.56024	0.24000	+/- 1.356
120	10	13.56024	0.24000	+/- 1.356
120	20	13.56025	0.25000	+/- 1.356
120	30	13.56024	0.24000	+/- 1.356
120	40	13.56025	0.25000	+/- 1.356
120	50	13.56025	0.25000	+/- 1.356

## B. Supply Voltage Variation

Power Supply	Environment	Frequency	Delta (kHz)	Limit (kHz)
Vdc	Temperature (°C)	(MHz)		
138	20	13.56024	0.24000	+/- 1.356
120	20	13.56025	0.25000	+/- 1.356
102	20	13.56025	0.25000	+/- 1.356

## 10 minutes

## A. Temperature Variation

Power Supply	Environment	Frequency	Delta (kHz)	Limit (kHz)
Vdc	Temperature (°C)	(MHz)		
120	-20	13.56026	0.26000	+/- 1.356
120	-10	13.56024	0.24000	+/- 1.356
120	0	13.56025	0.25000	+/- 1.356
120	10	13.56024	0.24000	+/- 1.356
120	20	13.56024	0.24000	+/- 1.356
120	30	13.56026	0.26000	+/- 1.356
120	40	13.56026	0.26000	+/- 1.356
120	50	13.56026	0.26000	+/- 1.356

## B. Supply Voltage Variation

Power Supply	Environment	Frequency	Delta (kHz)	Limit (kHz)
Vdc	Temperature (°C)	(MHz)		
138	20	13.56024	0.24000	+/- 1.356
120	20	13.56024	0.24000	+/- 1.356
102	20	13.56026	0.26000	+/- 1.356

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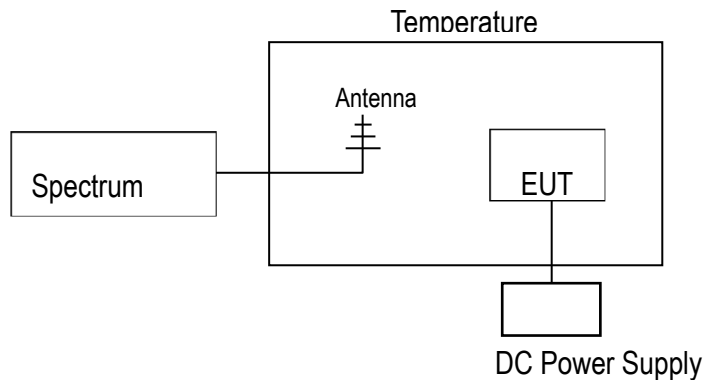
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## 10 EMISSION BANDWIDTH MEASUREMENT

### 10.1 Applicable Standard:

The 20 dB and 99% bandwidth shall be specified in operating frequency band.

### 10.2 Test Set-up



### 10.3 Measurement Procedure

1. Placed the EUT on the testing table.
2. Set the EUT under transmission condition continuously at specific channel frequency.
3. Set SPA Center Frequency = fundamental frequency, RBW=1% to 5% OBW, VBW=3 x RBW, Span = large enough to capture all products of the modulation process.
4. Measured the spectrum width with power higher than 20dB below carrier.

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## 10.4 Measurement Result

### FCC

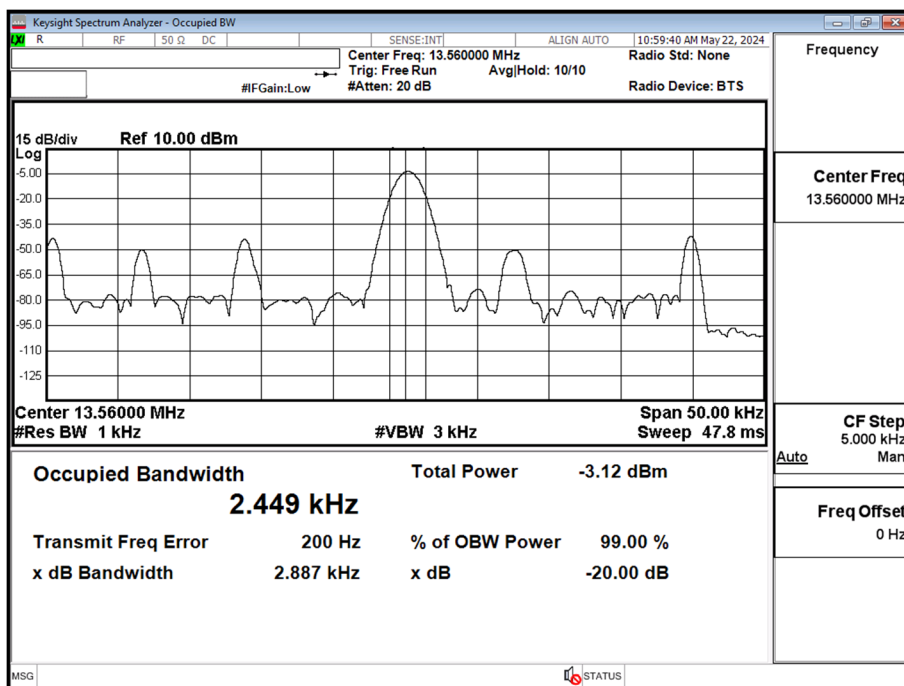
20dB BW (kHz)
2.887

Operation range	Frequency (MHz)	Limit (MHz)
Low	13.55890	>13.11
High	13.56140	<14.01

### IC

99% BW (kHz)
2.449

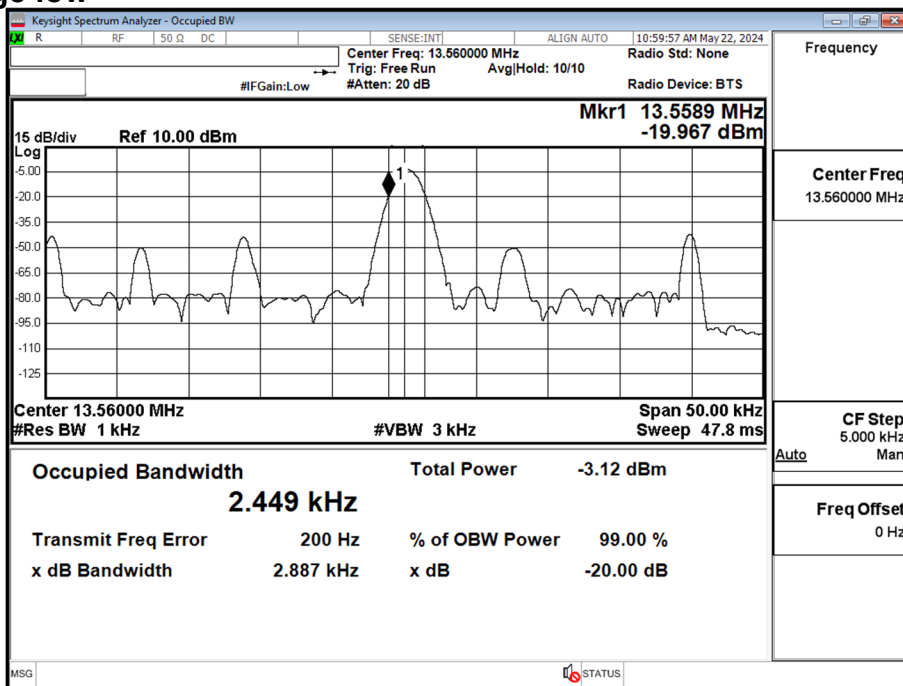
### Bandwidth



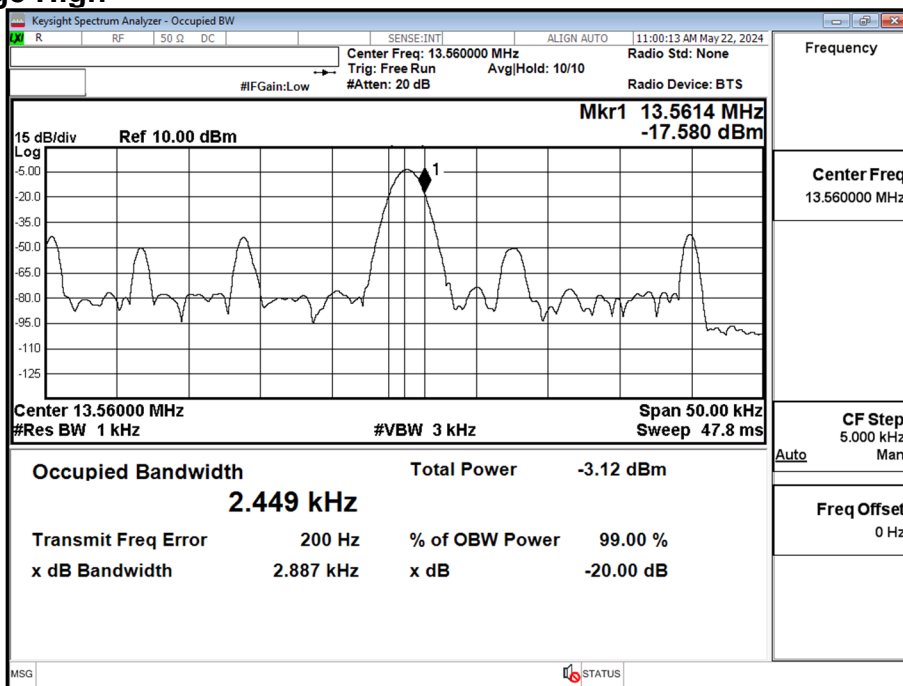
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## Operation range low



## Operation range High



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## 11 ANTENNA REQUIREMENT

### 11.1 Standard Applicable:

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. This requirement does not apply to carrier current devices or to devices operated under the provisions of §§ 15.211, 15.213, 15.217, 15.219, 15.221, or § 15.236. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with § 15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.

### 11.2 Antenna Connected Construction:

The antenna complies with this requirement and no consideration of replacement. Please see EUT photo for details.

*~ End of Report ~*

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