

**ELECTROMAGNETIC EMISSIONS
COMPLIANCE REPORT**

EUT Description Wall Mount Touch Panel
Applicant: Harman Professional, Inc.
8500 Balboa Blvd., Northridge, CA 91325, USA
Manufacturer: Harman Professional, Inc.
8500 Balboa Blvd., Northridge, CA 91325, USA
Brand Name: BSS
Model No.: OMNI-TP-SL80
Report Number: TERF2604001307E2
FCC ID 2AUHEOMNI-TP-SL80
Date of EUT Received: N/A, the test results are fully leveraged from test report number TERF2604001304E2, for more details please refer to section 2 in this report.
Date of Test: N/A, the test results are fully leveraged from test report number TERF2604001304E2, for more details please refer to section 2 in this report.
Issue Date: May 26, 2026

Approved By**Arno Hsieh****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 and the energy emitted by the sample EUT comply with FCC rule part §15.225.

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
TERF2604001307E2	00	Original	May 26, 2026	Sharon Cheng	

Note:

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

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1 GENERAL INFORMATION

1.1 Equipment Under Test (EUT)

EUT Description	Wall Mount Touch Panel
Brand Name:	BSS
Model No.:	OMNI-TP-SL80
Hardware Version:	N/A
Firmware Version:	N/A
EUT Series No.:	15600829413
Power Supply:	DC in 56V from PoE adaptor
Test Software (Name/Version)	Taginfo V4.27.0

1.2 RF specification

Radio Technology:	NFC
Operating Frequency	13.56MHz
Transmit Power	13.97dBuV/m at 30m.
Number of Channels	1
Modulation Type	ASK
Antenna Type	Loop

Note:

1. The antenna information is provided by the applicant. The laboratory does not verify the accuracy of this information, and all test results related to antenna characteristics are based solely on the data supplied. Responsibility for the authenticity and accuracy of these specifications rests entirely with the party who provided the information.
2. The antenna complies with part 15.203 requirement and no consideration of replacement. Please see EUT photo for details.

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1.3 EUT Availability and The Worst Test Modes

1. The EUT has been tested under operating condition.
2. Test program used to control the EUT for staying in continuous transmitting and receiving mode is programmed.
3. The field strength of radiation 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.
4. The frequency 13.56 MHz is the default channel to test, where it is the only manipulative channel as this application supports.
5. 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

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2 SUMMARY OF TEST RESULTS

FCC Rules	Description Of Test	Result	Note
§15.207	AC Power Line Conducted Emission	Compliant	
§15.225 (a)-(d)	Radiated Emission	Compliant	
§15.209	Radiated Emission Limits, general requirement	Compliant	
§15.225 (e)	Frequency Stability	Compliant	
§2.1049 §15.215 (c)	Emission Bandwidth	Compliant	
§15.203	Antenna Requirement	Compliant	N
§15.205	Restricted Bands	Compliant	

Note

1. N/S Indicates whether item(s) being newly tested [N] or spot checked [S].
2. Items other than newly tested [N] are leveraged from test report TERF2604001304E2.

2.1 Test Methodology of Applied Standards

FCC Part 15, Subpart C §15.225

ANSI C63.10-2020

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2.2 Measurement Uncertainty

Test Items	Uncertainty
AC Power Line Conducted Emission	+/- 1.54 dB
Frequency Stability	+/- 1.48 Hz
Emission Bandwidth	+/- 1.38 Hz
Temperature	+/- 0.60 °C
Humidity	+/- 3.00 %
DC / AC Power Source	+/- 1.00 %

Radiated Spurious Emission Measurement Uncertainty		
Polarization: Vertical	+/- 1.89 dB	9kHz - 30MHz
	+/- 4.10 dB	30MHz - 1000MHz
	+/- 3.37 dB	1GHz - 18GHz
	+/- 3.83 dB	18GHz - 40GHz
Polarization: Horizontal	+/- 1.89 dB	9kHz - 30MHz
	+/- 4.10 dB	30MHz - 1000MHz
	+/- 3.37 dB	1GHz - 18GHz
	+/- 3.83 dB	18GHz - 40GHz
Radiated Spurious Emission	+/- 2.00 dB	33GHz - 50GHz
	+/- 1.59 dB	50GHz - 60GHz
	+/- 1.71 dB	60GHz - 90GHz
	+/- 1.64 dB	90GHz - 140GHz
	+/- 3.84 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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2.3 Test Facility

Laboratory	Test Site Address	Test Site Name	FCC Designation number / Registration Number	IC CAB identifier / Company Number
SGS Taiwan Ltd. Central RF Lab. (TAF code 3702)	No.134, Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan 24803	SAC 1 / SAC 2 / SAC 3 Conduction 1 / Conducted 1 Conducted 2 / Conducted 3 Conducted 4 / Conducted 5 Conducted 6	TW0027 / 891563	TW3702 / 4620A
SGS Taiwan Ltd. Central RF Lab. (TAF code 3702)	No.2, Keji 1st Rd, Guishan District, Taoyuan City, Taiwan 333	SAC C / SAC D / SAC G Conduction C/ Conducted A Conducted B / Conducted C Conducted D / Conducted E Conducted F / Conducted G	TW0028 / 200037	TW3702 / 4620E

Test Condition	Test Site name	Test Engineer	Test Environment (T&H)	Test Date
RF Conducted	Conducted C	Joey You	22.8°C / 61%	04/20/2026 ~ 04/20/2026

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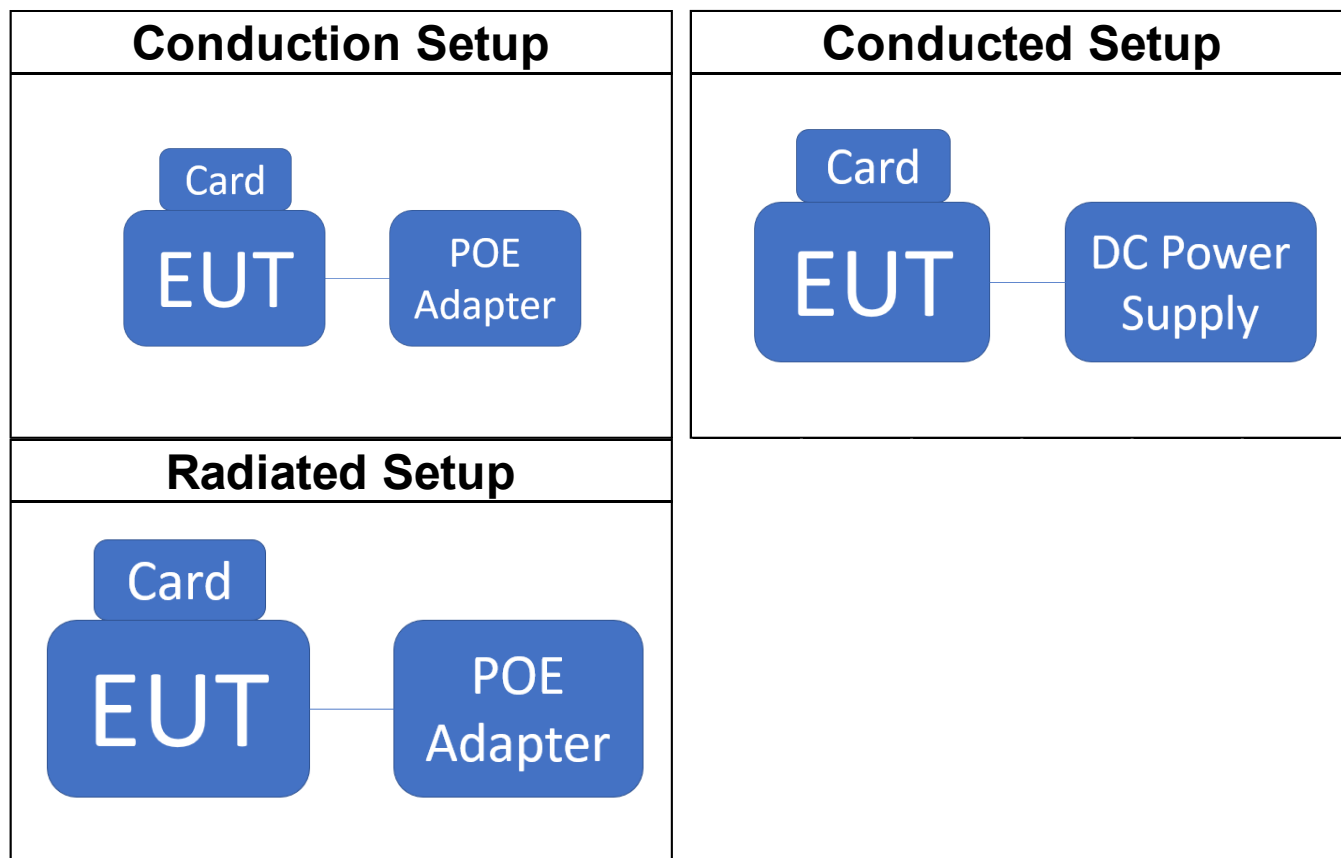
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3 CONTROL UNIT(S) AND PERIPHERAL(S)

3.1 EUT Exercise

An engineering test mode (software/firmware) that applicant provided was utilized to manipulate the EUT into transmit, selection of the test channel, and modulation scheme.

3.2 Diagram



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3.3 List

3.3.1 Conduction Setup

AC Power-Line Conducted Emission Test Site: Conduction C					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL. (mm/dd/yyyy)	CAL DUE. (mm/dd/yyyy)
PoE Adapter	Zyxel	PoE12-60W	S252L07585473	N/A	N/A
LAN cable	AMP	AMP-6e	4719862256612	N/A	N/A
Card	Metro Taipei	N/A	N/A	N/A	N/A

3.3.2 Conducted Setup

N/A

3.3.3 Radiated Setup

Radiated Emission Test Site: SAC C					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL. (mm/dd/yyyy)	CAL DUE. (mm/dd/yyyy)
PoE Adapter	Zyxel	PoE12-60W	S252L07585473	N/A	N/A
LAN cable	AMP	AMP-6e	4719862256612	N/A	N/A
Card	Metro Taipei	N/A	N/A	N/A	N/A

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4 TEST INSTRUMENT

4.1 Conducted Measurement

Conducted Emission Test Site: Conducted C					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL. (mm/dd/yyyy)	CAL DUE. (mm/dd/yyyy)
DC Block	PASTERNAK	PE8210	RF35	11/13/2025	11/12/2026
DC Power Supply	Gwinstek	GPC-3060D	GEW925544	03/26/2026	03/25/2027
Spectrum Analyzer	KEYSIGHT	N9010B	MY59071573	06/03/2025	06/02/2026
Temperature Chamber	TERCHY	MHK-120LK	1020582	06/23/2025	06/22/2026
H-Loop Near Field Antenna	LANGER EMV-Technik	LF-R 400	02-1597	N.C.R	N.C.R

4.2 Radiated Measurement

Radiated Emission Test Site: SAC C					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL. (mm/dd/yyyy)	CAL DUE. (mm/dd/yyyy)
3m Site NSA	SGS	966 chamber C	N/A	03/02/2026	03/01/2027
Active Loop Antenna	COM-POWER	AL-130R	10160105	12/16/2025	12/15/2026
Broadband Antenna	SCHWARZBECK	VULB 9168	9168-300	11/14/2025	11/13/2026
Coaxial Cable	EMCI+Huber Suhner	RG 214/U+EMC104-SM-SM-6000+EMC105-SM-SM-12000+15	W13.01+150813+2310002+15	11/13/2025	11/12/2026
EMI Test Receiver	R&S	ESU 40	100363	05/06/2025	05/05/2026
Pre-Amplifier	EMC Instruments	EMC330	980091	11/13/2025	11/12/2026
Spectrum Analyzer	KEYSIGHT	N9010B	MY63440390	02/02/2026	02/01/2027
Test Software	audix	e3	E3 20923 SGS Ver.9 (C)	N.C.R	N.C.R

4.3 Emission from AC power line

AC Power-Line Conducted Emission Test Site: Conduction C					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL. (mm/dd/yyyy)	CAL DUE. (mm/dd/yyyy)
Coaxial Cable	EC Lab	RF-HY-CAB-250	RF-HY-CAB-250-01	03/27/2026	03/26/2027
EMI Test Receiver	R&S	ESCI	101342	04/16/2026	04/15/2027
LISN	SCHWARZBECK Mess-Elektronik	NSLK8127	974	06/30/2025	06/29/2026
Pulse Limiter	EC Lab	VTSD 9561F-N	485	03/27/2026	03/26/2027
Test Software	audix	e3	E3 20923 SGS Ver.9 (C)	N.C.R	N.C.R

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

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5 REGULATORY REQUIREMENTS

5.1 Radiated Emission

5.1.1 Field Strength of Fundamental Emission

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.

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

Distance Extrapolation Factor

30m to 3m: Distance extrapolation = $40 \cdot \log(30/3) = 40$ dB

30m to 10m: Distance extrapolation = $40 \cdot \log(30/10) = 19.08$ dB

10m to 3m: Distance extrapolation = $40 \cdot \log(10/3) = 20.92$ dB

Note:

1. Distance extrapolation factor = $40 \log(\text{required distance} / \text{test distance})$ (dB)
2. The lower limit shall apply at the transition frequencies.

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5.2 Radiated Spurious Emission Measurement

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 ($\mu\text{V/m}$)	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. $20 * \log(30\mu\text{V/m}) = 29.54 \text{ dB}\mu\text{V/m}$
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. The general radiated emission limits apply to spurious emissions generated by the UE, except for fundamental emissions where specific provisions are stated in the relevant sections.

5.3 Frequency Stability

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

5.4 Emission Bandwidth

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

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5.5 AC Power Line Conducted Emission

Frequency range within 150kHz 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.

5.6 Antenna Requirement

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.

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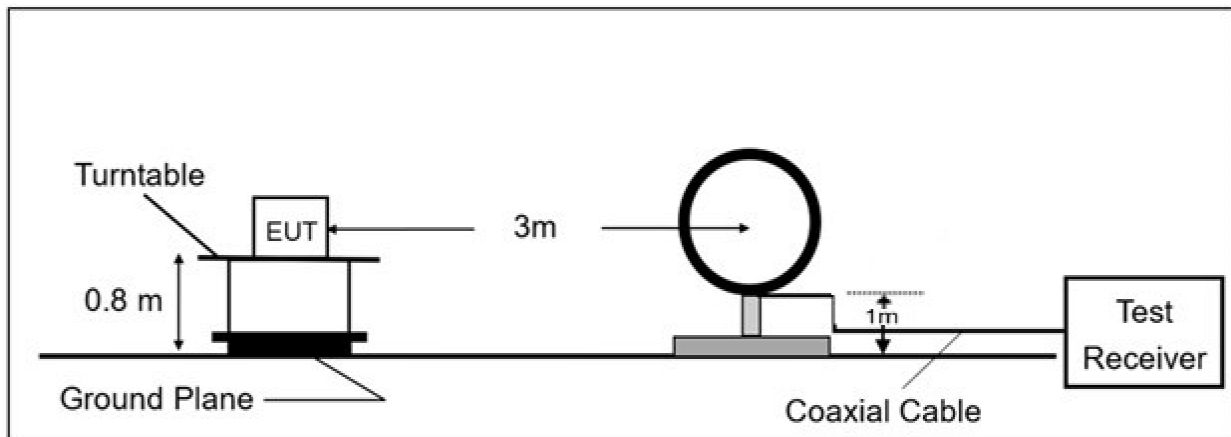
6 TEST CONFIGURATION

6.1 Radiated Emission

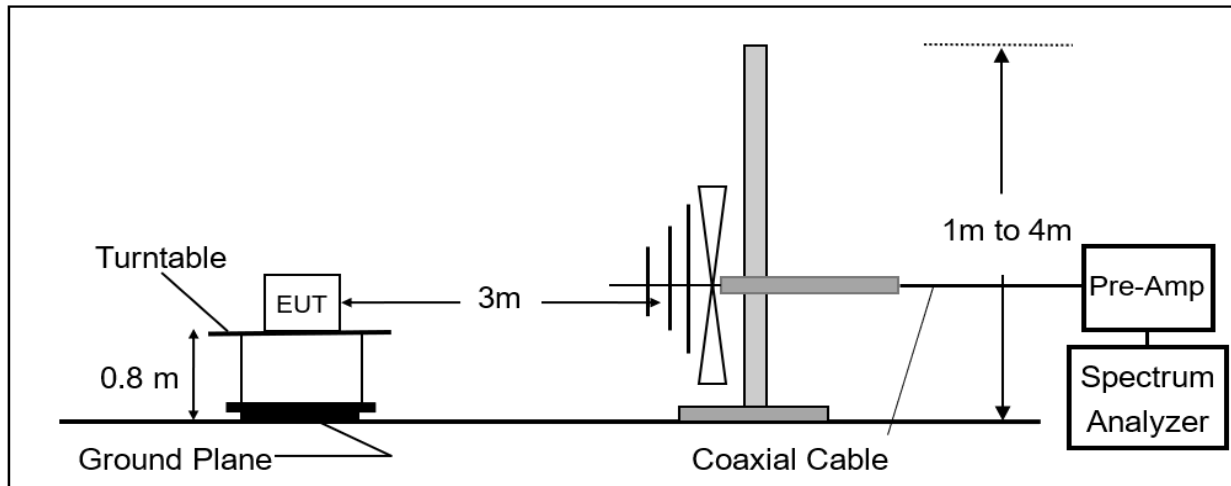
Radiated emission below 30MHz is measured in a 9m*6m*6m semi-anechoic chamber, the measurements correspond to those obtained at an open-field test site.

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

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



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



1. Configure the EUT according to ANSI C63.10.

Frequency	RBW	VBW	Detector
9kHz~150kHz	300Hz	300Hz	Quasi-Peak
150kHz~30MHz	10kHz	10kHz	Quasi-Peak
30MHz~1GHz	100kHz	300kHz	Peak
30MHz~1GHz	120kHz	360kHz	Quasi-Peak

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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.

Note: The emissions from 9 kHz to 30MHz was pre-scanned as 20dB lower than the limits and hence not reported.

6.1.1 Field Strength Calculation

The field strength is calculated by adding the antenna factor and cable loss, then subtracting the amplifier gain and any applicable duty cycle correction factor from the measured reading. The basic equation and an example calculation are as follows:

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

Where:

FS = Field Strength (dB μ V/m)
RA = Reading Amplitude (dB μ V)
AF = Antenna Factor (dB/m)
CL = Cable Loss (dB)
AG = Amplifier Gain (dB)

The limit of the emission level is expressed in dB μ V/m, which converts $20 \cdot \log(uV/m)$

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

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

Above 30 MHz of Factor(dB) = Antenna Factor(dB/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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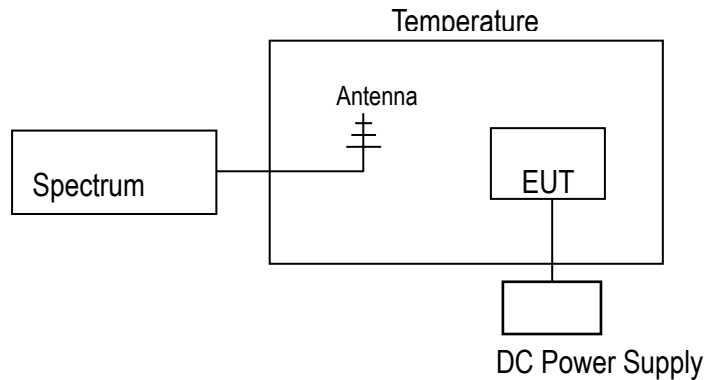
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6.2 Frequency Stability

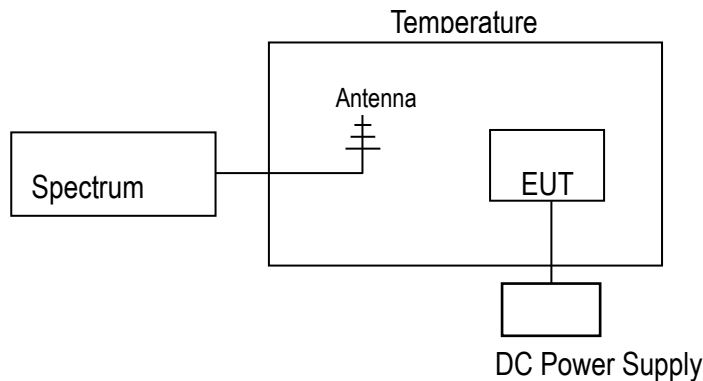


1. The EUT was placed on a turn table which is 0.8m above ground plane.
2. Set EUT as normal operation
3. Set the spectrum analyzer as
Center Frequency = fundamental frequency,
RBW= 10kHz,
VBW= 10kHz,
Span =100kHz.
4. Set SPA Max hold. Mark peak.

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6.3 Emission Bandwidth

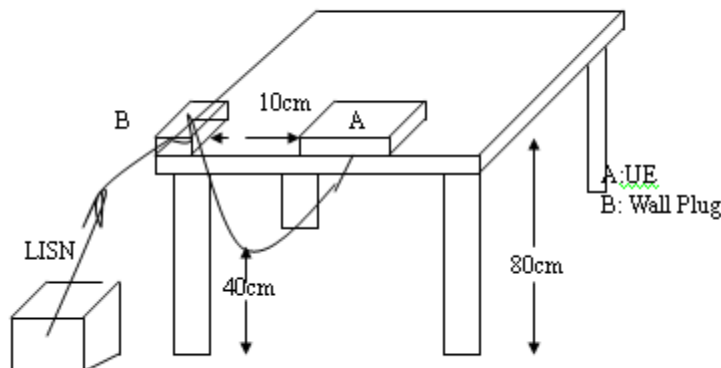


1. Placed the EUT on the testing table.
2. Set the EUT under transmission condition continuously at specific channel frequency.
3. Set the spectrum analyzer as
Center Frequency = fundamental frequency,
RBW=1% to 5% OBW and without going below 0.1kHz,
VBW $\geq$ 3 x RBW,
Span = 2 to 5 times OBW
4. Use the 99% power bandwidth and X dB bandwidth mode function of the spectrum analyzer and set to 20dB

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6.4 AC Power Line Conducted Emission



The conducted emission tests were performed at the designated test site using a setup in accordance with the applicable version of ANSI C63.10.

1. The EUT was placed on a non-conductive table that is 0.8 meters above the ground plane. Conducted emissions were measured in the frequency range from 0.15 MHz to 30 MHz using CISPR Quasi-Peak and Average detector modes. Two LISNs were used to provide 50 μ H / 50 ohm coupling impedance to the measuring instrument. Both lines of the AC power mains connected to the EUT were evaluated to identify the maximum conducted interference.
2. The AC/DC power adapter of the EUT was connected to the LISN. The EUT was positioned flush with the rear edge of the table, maintaining at least 0.4 meters of separation from the shielding wall.
3. The LISNs were connected to the power source and configured in accordance with the test requirements.
4. The maximum emission levels were investigated for each operating mode. The six highest emissions were further maximized to ensure compliance.
5. The above procedures were repeated for all applicable power supply configurations of the EUT.

Calculation Formula:

Level = Read Level + Factor

Factor = LISN/ISN/Current Probe Factor + Cable Loss + Attenuator

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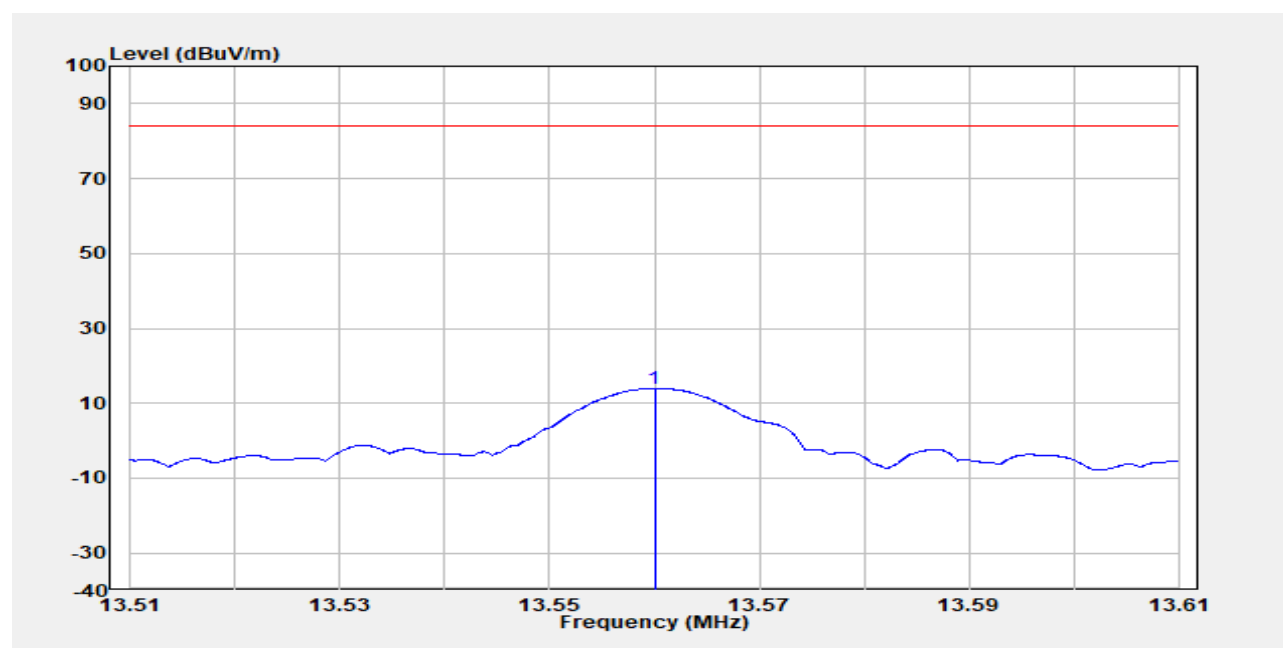
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7 TEST RESULTS

7.1 Field Strength of Fundamental Emission Measurement Result

Report Number	:TERF2604001304E2	Test Site	:SAC C
Operation Mode	:NFC	Test Date	:2026-04-27
Test Frequency	:13.56 MHz	Temp./Humi.	:22.0°C/60%
Test Mode	:Main	Antenna Pol.	: Parallel
EUT Pol	:E1 Plane	Engineer	:Jacky Chen



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS		
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
13.56	Peak	38.15	-24.18	13.97	84.00	-70.03

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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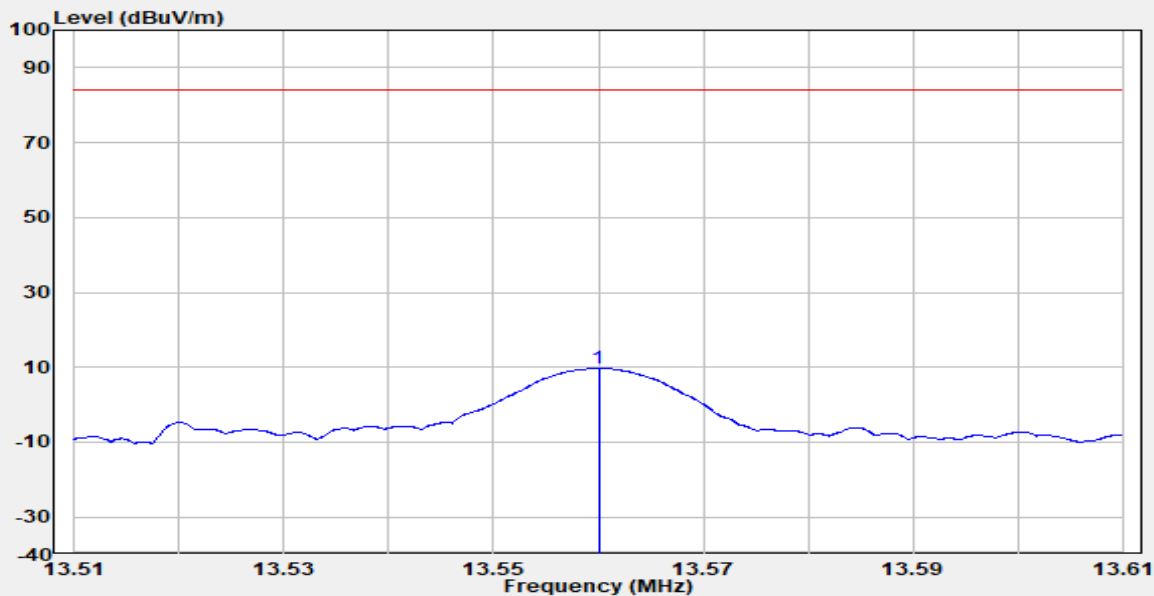
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Report Number :TERF2604001304E2
 Operation Mode :NFC
 Test Frequency :13.56 MHz
 Test Mode :Main
 EUT Pol :E1 Plane

Test Site :SAC C
 Test Date :2026-04-27
 Temp./Humi. :22.0°C/60%
 Antenna Pol. : Perpendicular
 Engineer :Jacky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit dBuV/m	Margin dB
13.56	Peak	33.85	-24.18	9.67	84.00	-74.33

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.

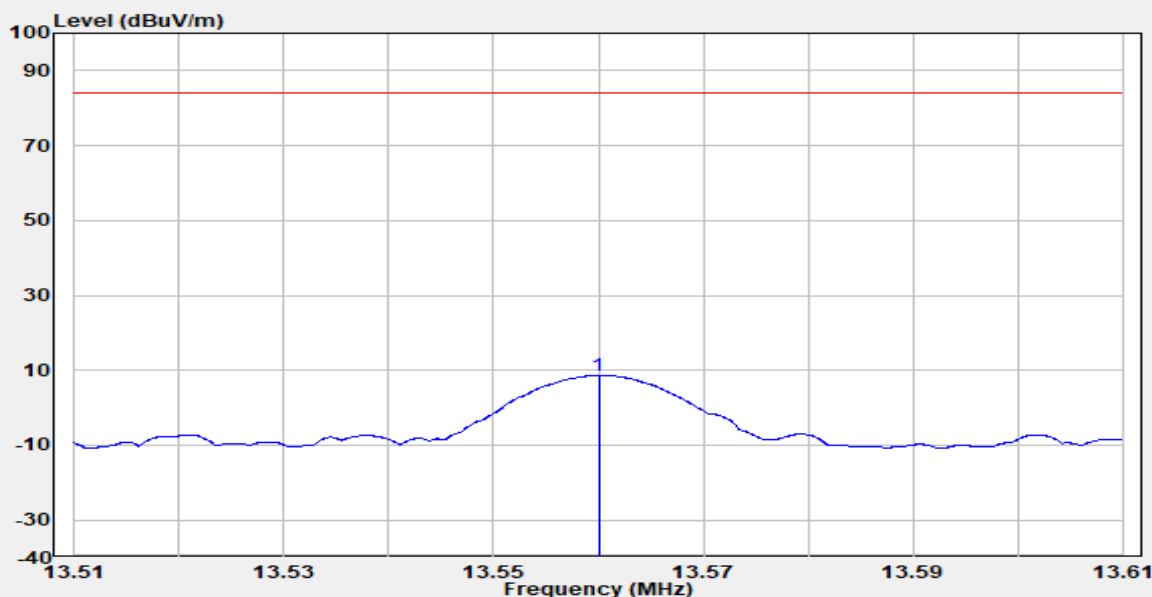
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Report Number :TERF2604001304E2
 Operation Mode :NFC
 Test Frequency :13.56 MHz
 Test Mode :Main
 EUT Pol :E1 Plane

Test Site :SAC C
 Test Date :2026-04-27
 Temp./Humi. :22.0°C/60%
 Antenna Pol. : Ground Parallel
 Engineer :Jacky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit dBuV/m	Margin dB
13.56	Peak	32.83	-24.18	8.65	84.00	-75.35

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.

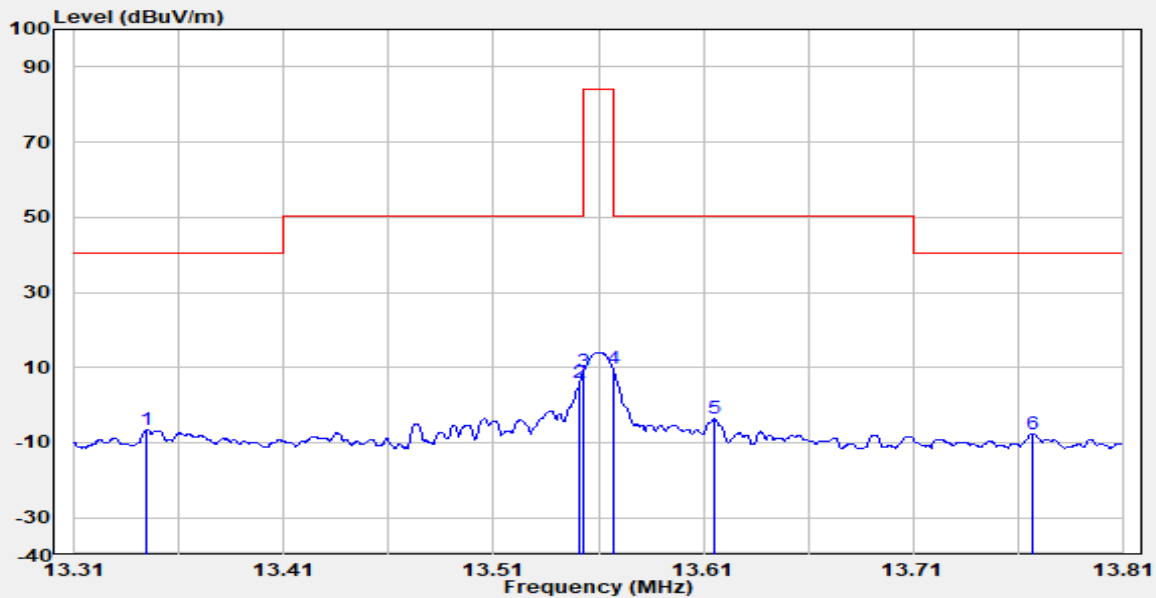
Field strength (dBuV/m) at 30m, within the band 490 kHz - 30 MHz.

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Report Number :TERF2604001304E2
 Operation Mode :NFC
 Test Frequency :13.56 MHz
 Test Mode :Mask
 EUT Pol :E1 Plane

Test Site :SAC C
 Test Date :2026-04-27
 Temp./Humi. :22.0°C/60%
 Antenna Pol. : Parallel
 Engineer :Jacky Chen



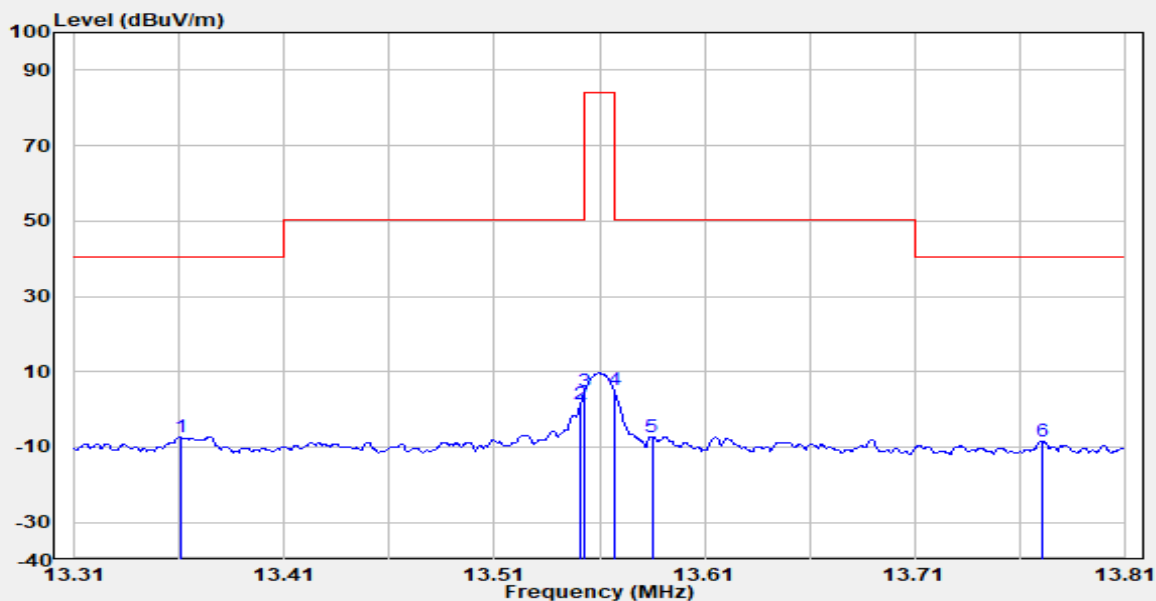
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
13.345	Peak	17.56	-24.19	-6.63	40.50	-47.13
13.551	Peak	30.03	-24.18	5.85	50.47	-44.62
13.553	Peak	33.25	-24.18	9.06	50.47	-41.41
13.567	Peak	33.77	-24.18	9.59	50.47	-40.88
13.616	Peak	20.47	-24.18	-3.71	50.47	-54.18
13.768	Peak	16.59	-24.18	-7.59	40.50	-48.09

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Report Number :TERF2604001304E2
 Operation Mode :NFC
 Test Frequency :13.56 MHz
 Test Mode :Mask
 EUT Pol :E1 Plane

Test Site :SAC C
 Test Date :2026-04-27
 Temp./Humi. :22.0°C/60%
 Antenna Pol. : Perpendicular
 Engineer :Jacky Chen



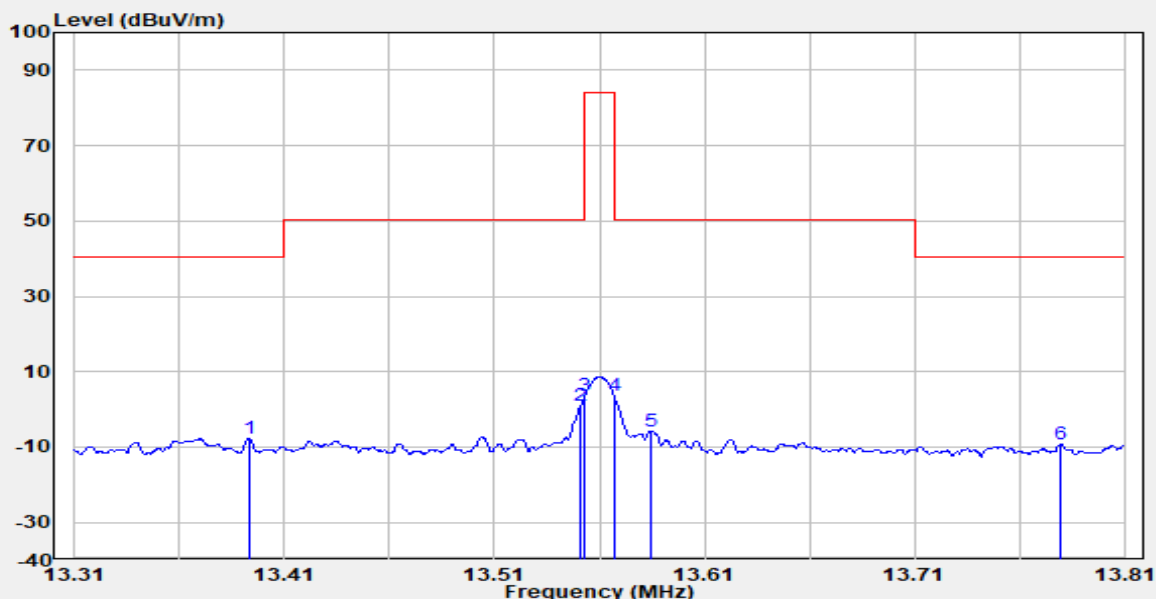
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
13.361	Peak	16.82	-24.19	-7.37	40.50	-47.87
13.551	Peak	25.53	-24.18	1.34	50.47	-49.13
13.553	Peak	28.95	-24.18	4.77	50.47	-45.70
13.567	Peak	29.27	-24.18	5.09	50.47	-45.38
13.585	Peak	16.99	-24.18	-7.19	50.47	-57.66
13.771	Peak	15.59	-24.18	-8.58	40.50	-49.08

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Report Number :TERF2604001304E2
 Operation Mode :NFC
 Test Frequency :13.56 MHz
 Test Mode :Mask
 EUT Pol :E1 Plane

Test Site :SAC C
 Test Date :2026-04-27
 Temp./Humi. :22.0°C/60%
 Antenna Pol. : Ground Parallel
 Engineer :Jacky Chen



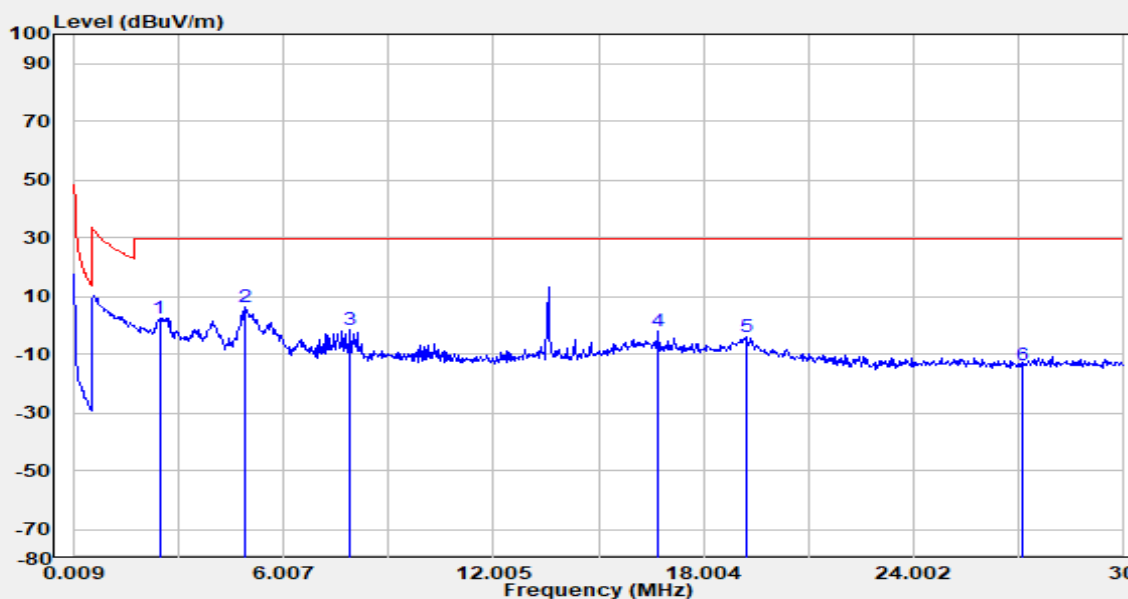
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
13.393	Peak	16.31	-24.18	-7.88	40.50	-48.38
13.551	Peak	25.27	-24.18	1.09	50.47	-49.38
13.553	Peak	27.69	-24.18	3.51	50.47	-46.96
13.567	Peak	27.80	-24.18	3.62	50.47	-46.85
13.585	Peak	18.40	-24.18	-5.78	50.47	-56.25
13.780	Peak	14.80	-24.18	-9.37	40.50	-49.87

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7.2 Radiated Spurious Emission Measurement Result

Report Number	:TERF2604001304E2	Test Site	:SAC C
Operation Mode	:NFC	Test Date	:2026-04-27
Test Frequency	:13.56 MHz	Temp./Humi.	:22.0°C/60%
Test Mode	:Tx	Antenna Pol.	: Parallel
EUT Pol	:E1 Plane	Engineer	:Jacky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit dBuV/m	Margin dB
2.438	Peak	28.21	-25.62	2.59	29.54	-26.95
4.898	Peak	31.60	-25.45	6.15	29.54	-23.39
7.897	Peak	22.84	-24.49	-1.65	29.54	-31.19
16.714	Peak	22.49	-24.29	-1.80	29.54	-31.34
19.233	Peak	20.55	-24.66	-4.11	29.54	-33.65
27.12	Peak	12.06	-25.95	-13.89	29.54	-43.43

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.

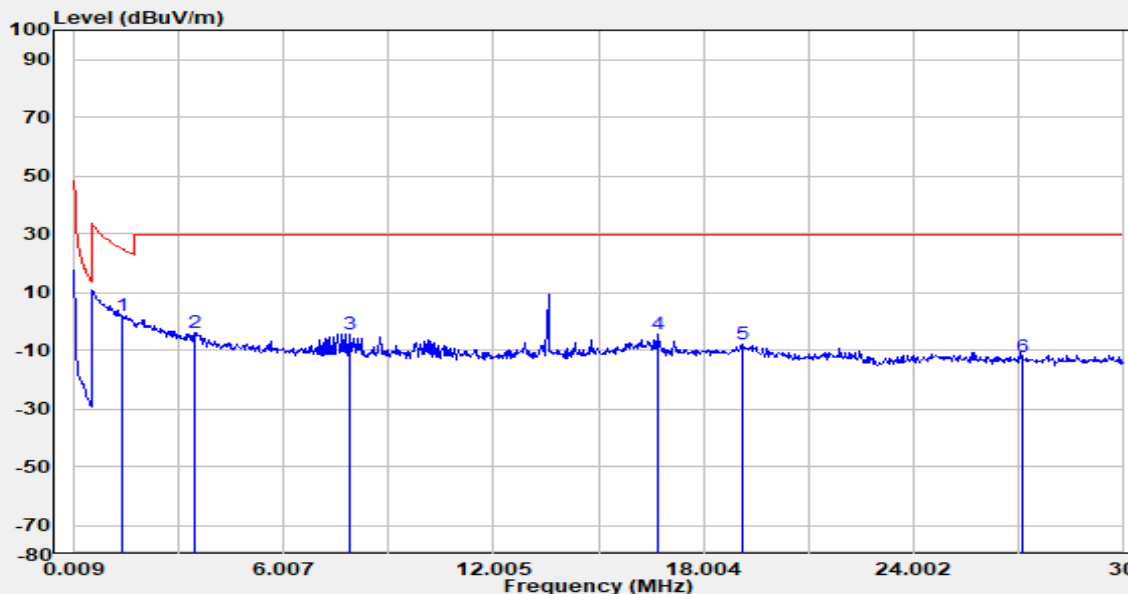
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Report Number :TERF2604001304E2
 Operation Mode :NFC
 Test Frequency :13.56 MHz
 Test Mode :Tx
 EUT Pol :E1 Plane

Test Site :SAC C
 Test Date :2026-04-27
 Temp./Humi. :22.0°C/60%
 Antenna Pol. : Perpendicular
 Engineer :Jacky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit dBuV/m	Margin dB
1.389	Peak	27.80	-25.91	1.89	24.75	-22.86
3.458	Peak	21.43	-25.44	-4.01	29.54	-33.55
7.897	Peak	20.26	-24.49	-4.23	29.54	-33.77
16.714	Peak	19.91	-24.29	-4.38	29.54	-33.92
19.113	Peak	16.68	-24.67	-7.99	29.54	-37.53
27.12	Peak	13.75	-25.95	-12.20	29.54	-41.74

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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SGS Taiwan Ltd.

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台灣檢驗科技股份有限公司

t (886-2) 2299-3279

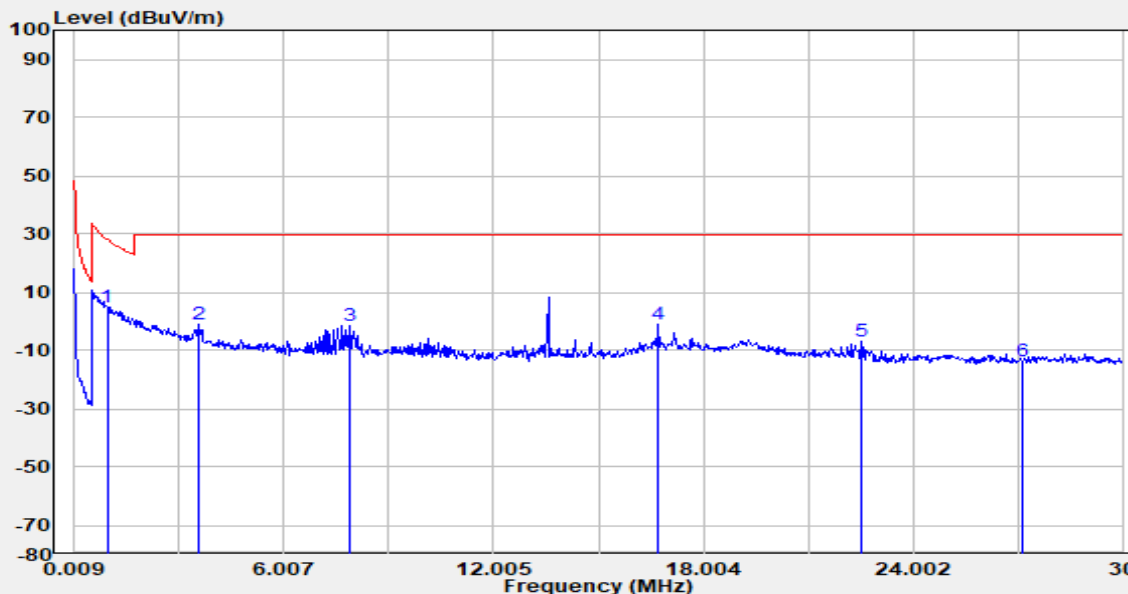
f (886-2) 2298-0488

www.sgs.com.tw

Member of SGS Group

Report Number :TERF2604001304E2
 Operation Mode :NFC
 Test Frequency :13.56 MHz
 Test Mode :Tx
 EUT Pol :E1 Plane

Test Site :SAC C
 Test Date :2026-04-27
 Temp./Humi. :22.0°C/60%
 Antenna Pol. : Ground Parallel
 Engineer :Jacky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit dBUV/m	Margin dB
13.56	Peak	32.83	-24.18	8.65	84.00	-75.35

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.

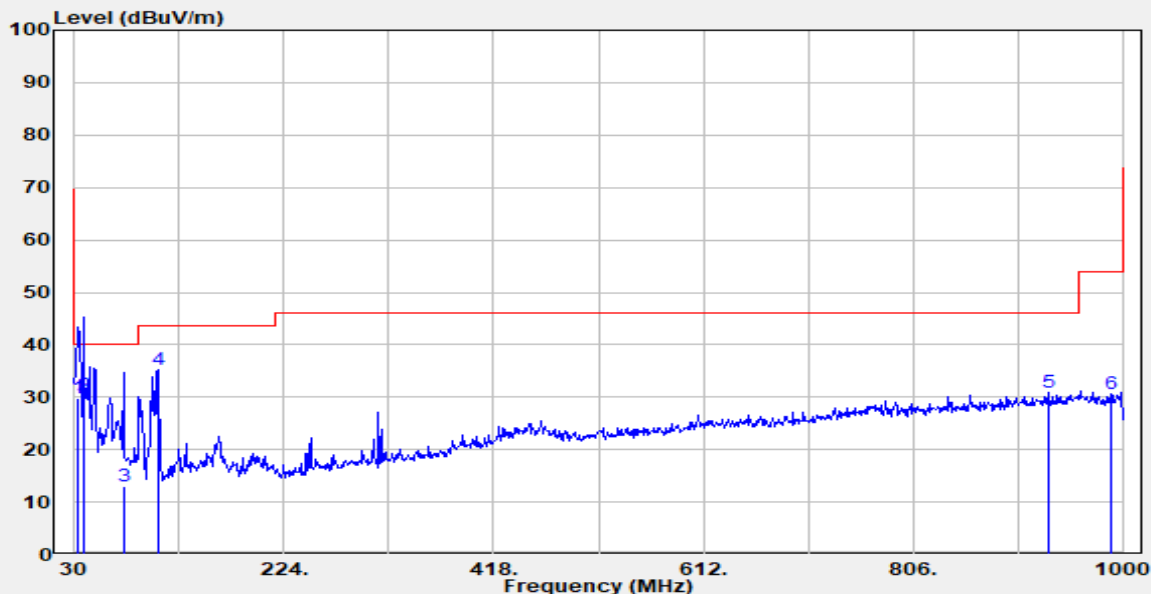
Field strength (dBUV/m) at 30m,within the band 490 kHz - 30 MHz.

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Report Number :TERF2604001304E2
 Operation Mode :NFC
 Test Frequency :13.56 MHz
 Test Mode :Tx
 EUT Pol :E1 Plane

Test Site :SAC C
 Test Date :2026-04-27
 Temp./Humi. :22.0°C/60%
 Antenna Pol. :Vertical
 Engineer :Jacky Chen



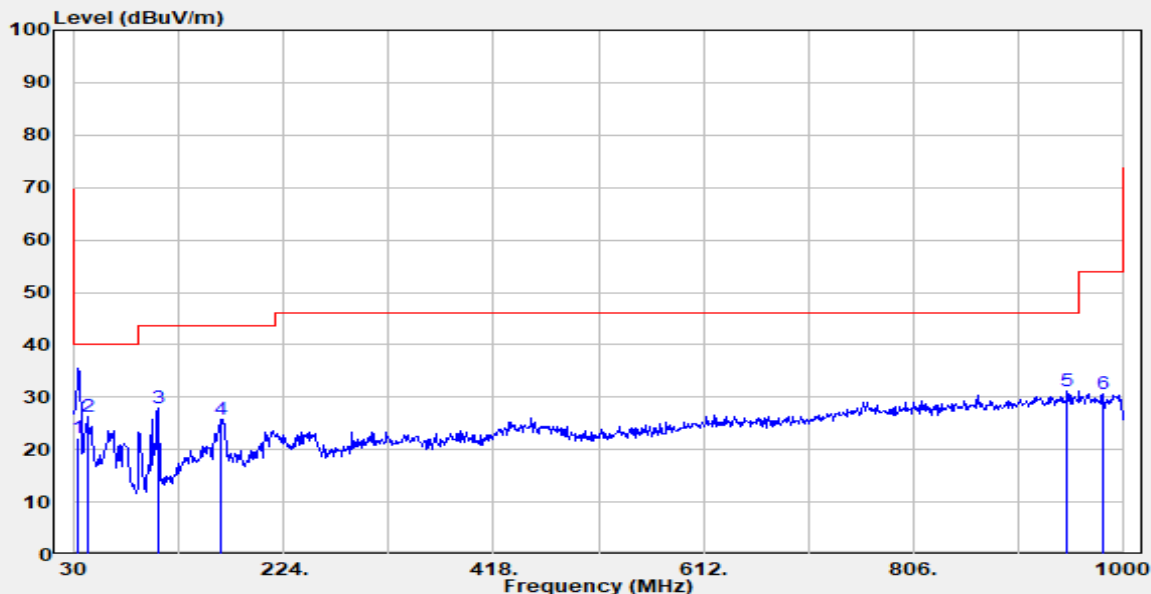
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit dBμV/m	Margin dB
33.88	QP	43.11	-13.25	29.86	40.00	-10.14
37.76	QP	43.00	-12.69	30.31	40.00	-9.69
75.59	QP	28.51	-15.59	12.92	40.00	-27.08
107.60	Peak	50.90	-15.54	35.36	43.50	-8.14
931.13	Peak	29.42	1.42	30.84	46.00	-15.16
989.33	Peak	29.00	1.53	30.53	54.00	-23.47

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Report Number :TERF2604001304E2
Operation Mode :NFC
Test Frequency :13.56 MHz
Test Mode :Tx
EUT Pol :E1 Plane

Test Site :SAC C
Test Date :2026-04-27
Temp./Humi. :22.0°C/60%
Antenna Pol. :Horizontal
Engineer :Jacky Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit dBuV/m	Margin dB
33.88	QP	35.61	-13.25	22.36	40.00	-17.64
41.64	Peak	38.46	-12.23	26.23	40.00	-13.77
107.60	Peak	43.32	-15.54	27.78	43.50	-15.72
165.80	Peak	37.54	-11.87	25.67	43.50	-17.83
948.59	Peak	29.59	1.67	31.26	46.00	-14.74
981.57	Peak	29.00	1.54	30.54	54.00	-23.46

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7.3 Frequency Stability

Startup

A. Temperature Variation

Power Supply	Environment	Frequency	Delta (kHz)	Limit (kHz)
Voltage (V)	Temperature (°C)	(MHz)		
48	-20	13.55906	-0.04000	+/- 1.35591
48	-10	13.55927	0.17000	+/- 1.35591
48	0	13.55989	0.79000	+/- 1.35591
48	10	13.55987	0.77000	+/- 1.35591
48	20	13.5591	0.00000	+/- 1.35591
48	30	13.55905	-0.05000	+/- 1.35591
48	40	13.55971	0.61000	+/- 1.35591
48	50	13.55957	0.47000	+/- 1.35591

B. Supply Voltage Variation

Power Supply	Environment	Frequency	Delta (kHz)	Limit (kHz)
Voltage (V)	Temperature (°C)	(MHz)		
55.2	20	13.55932	0.22000	+/- 1.35591
48	20	13.5591	0.00000	+/- 1.35591
40.8	20	13.55994	0.84000	+/- 1.35591

2 minutes

A. Temperature Variation

Power Supply	Environment	Frequency	Delta (kHz)	Limit (kHz)
Voltage (V)	Temperature (°C)	(MHz)		
48	-20	13.55961	0.51000	+/- 1.35591
48	-10	13.55926	0.16000	+/- 1.35591
48	0	13.55997	0.87000	+/- 1.35591
48	10	13.55924	0.14000	+/- 1.35591
48	20	13.55928	0.18000	+/- 1.35591
48	30	13.55918	0.08000	+/- 1.35591
48	40	13.55931	0.21000	+/- 1.35591
48	50	13.55957	0.47000	+/- 1.35591

B. Supply Voltage Variation

Power Supply	Environment	Frequency	Delta (kHz)	Limit (kHz)
Voltage (V)	Temperature (°C)	(MHz)		
55.2	20	13.55984	0.74000	+/- 1.35591
48	20	13.55928	0.18000	+/- 1.35591
40.8	20	13.55983	0.73000	+/- 1.35591

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5 minutes

A. Temperature Variation

Power Supply	Environment	Frequency	Delta (kHz)	Limit (kHz)
Voltage (V)	Temperature (°C)	(MHz)		
48	-20	13.55903	-0.07000	+/- 1.35591
48	-10	13.55977	0.67000	+/- 1.35591
48	0	13.55915	0.05000	+/- 1.35591
48	10	13.55911	0.01000	+/- 1.35591
48	20	13.55957	0.47000	+/- 1.35591
48	30	13.55957	0.47000	+/- 1.35591
48	40	13.55981	0.71000	+/- 1.35591
48	50	13.55995	0.85000	+/- 1.35591

B. Supply Voltage Variation

Power Supply	Environment	Frequency	Delta (kHz)	Limit (kHz)
Voltage (V)	Temperature (°C)	(MHz)		
55.2	20	13.55977	0.67000	+/- 1.35591
48	20	13.55957	0.47000	+/- 1.35591
40.8	20	13.55935	0.25000	+/- 1.35591

10 minutes

A. Temperature Variation

Power Supply	Environment	Frequency	Delta (kHz)	Limit (kHz)
Voltage (V)	Temperature (°C)	(MHz)		
48	-20	13.55911	0.01000	+/- 1.35591
48	-10	13.55941	0.31000	+/- 1.35591
48	0	13.55936	0.26000	+/- 1.35591
48	10	13.55933	0.23000	+/- 1.35591
48	20	13.55976	0.66000	+/- 1.35591
48	30	13.55963	0.53000	+/- 1.35591
48	40	13.55947	0.37000	+/- 1.35591
48	50	13.5595	0.40000	+/- 1.35591

B. Supply Voltage Variation

Power Supply	Environment	Frequency	Delta (kHz)	Limit (kHz)
Voltage (V)	Temperature (°C)	(MHz)		
55.2	20	13.55963	0.53000	+/- 1.35591
48	20	13.55976	0.66000	+/- 1.35591
40.8	20	13.55996	0.86000	+/- 1.35591

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7.4 Emission Bandwidth

FCC

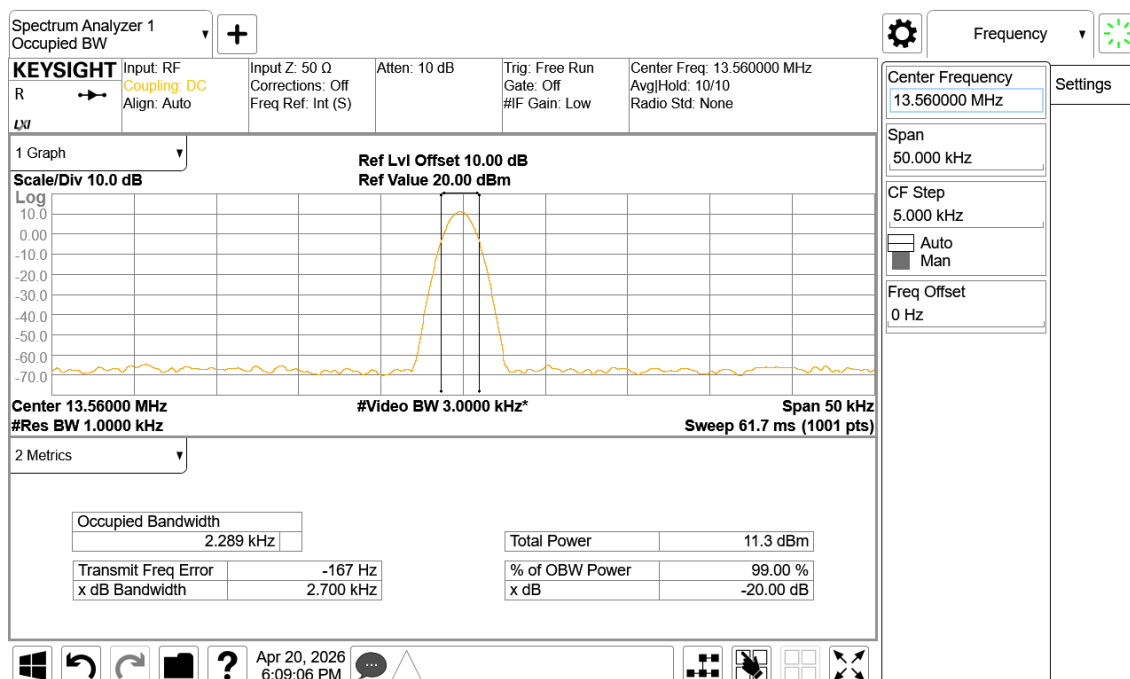
20dB BW (kHz)
2.7

Operation range	Frequency (MHz)	Limit (MHz)
Low	13.55870	>13.11
High	13.56100	<14.01

IC

99% BW (kHz)
2.289

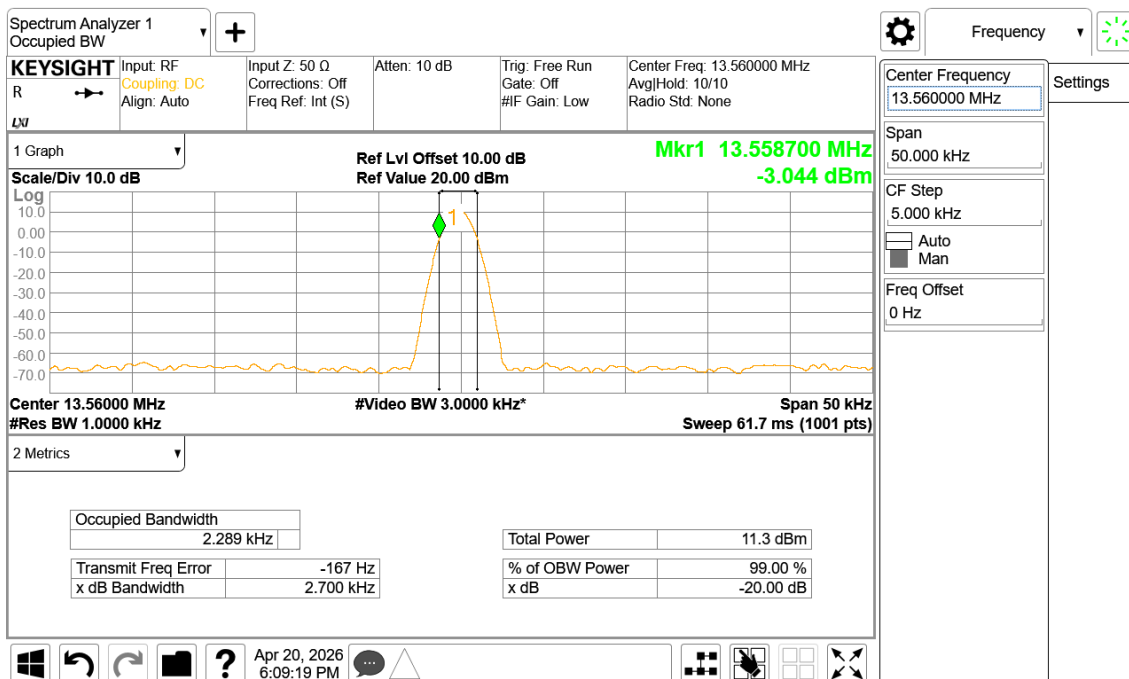
7.4.1 Bandwidth



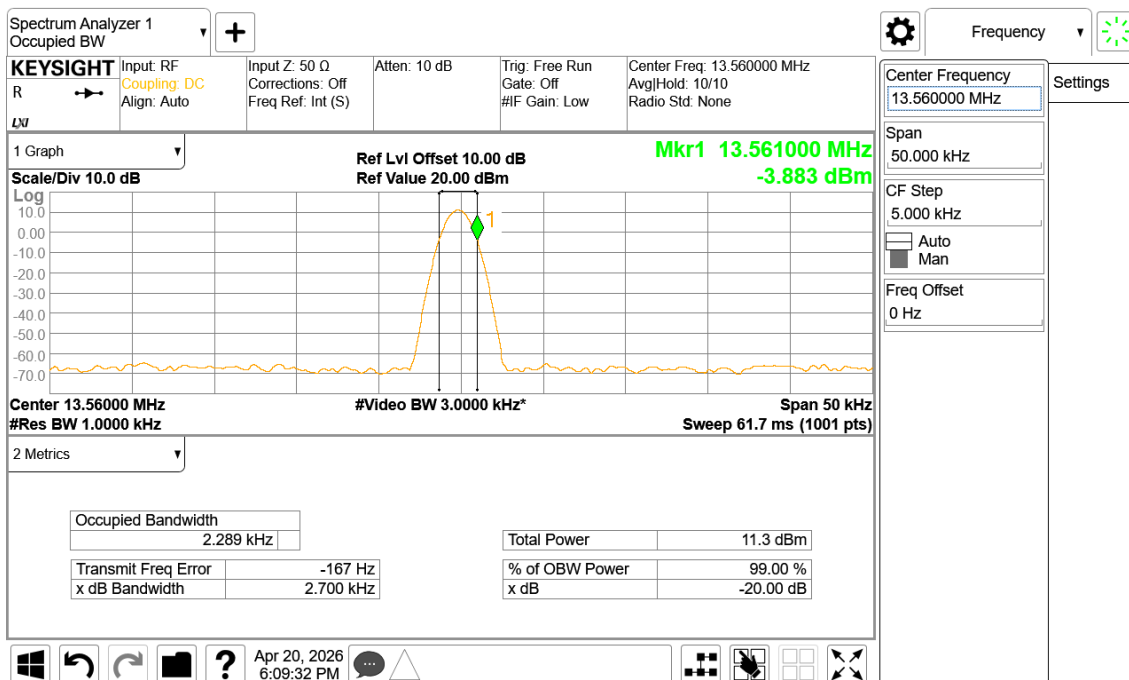
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7.4.2 Operation range low



7.4.3 Operation range High



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SGS Taiwan Ltd.

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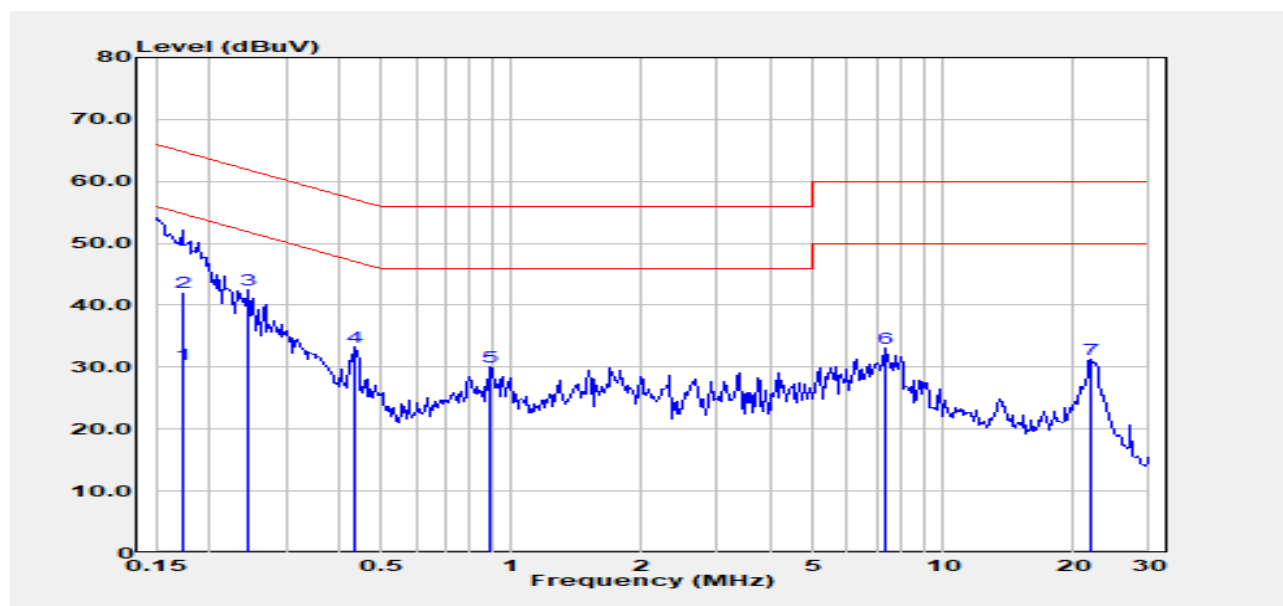


7.5 AC Power Line Conducted

Level = Read Level + Factor

Factor = (LISN, ISN, or current probe)Factor + Cable Loss +Attenuator

Report Number	:TERF2604001304E2	Test Site	:Conduction C
Test Mode	:NFC	Test Date	:2026-04-27
Power	:120V/60Hz	Temp./Humi.	:24.1°C/55%
Probe	:L1	Engineer	:Jacky Chen
Note	:Standby		



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level	dB	FS	dBμV	dB
	PK/QP/AV	dBμV		dBμV		
0.172	Average	19.80	10.65	30.45	54.86	-24.41
0.172	QP	31.50	10.65	42.15	64.86	-22.71
0.244	Peak	31.85	10.64	42.49	61.95	-19.46
0.433	Peak	22.73	10.62	33.35	57.20	-23.85
0.890	Peak	19.33	10.68	30.00	56.00	-26.00
7.329	Peak	22.11	10.96	33.06	60.00	-26.94
22.063	Peak	19.98	11.21	31.19	60.00	-28.81

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Report Number :TERF2604001304E2

Test Site :Conduction C

Test Mode :NFC

Test Date :2026-04-27

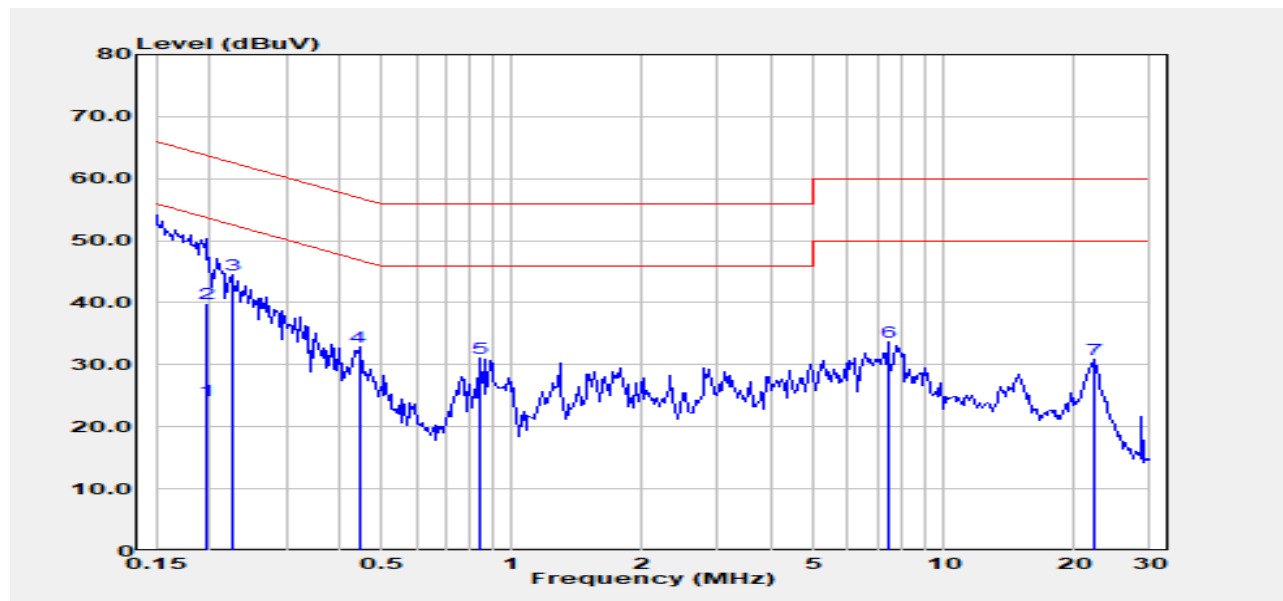
Power :120V/60Hz

Temp./Humi. :24.1°C/55%

Probe :N

Engineer :Jacky Chen

Note :Standby



Freq. MHz	Detector Mode	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV	Limit dBμV	Margin dB
0.195	Average	13.70	10.65	24.35	53.80	-29.45
0.195	QP	29.20	10.65	39.85	63.80	-23.95
0.224	Peak	33.85	10.64	44.49	62.66	-18.16
0.442	Peak	22.34	10.61	32.95	57.02	-24.07
0.844	Peak	20.43	10.65	31.08	56.00	-24.92
7.407	Peak	22.70	10.94	33.65	60.00	-26.35
22.298	Peak	19.56	11.22	30.79	60.00	-29.21

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Report Number :TERF2604001304E2

Test Site :Conduction C

Test Mode :NFC

Test Date :2026-04-27

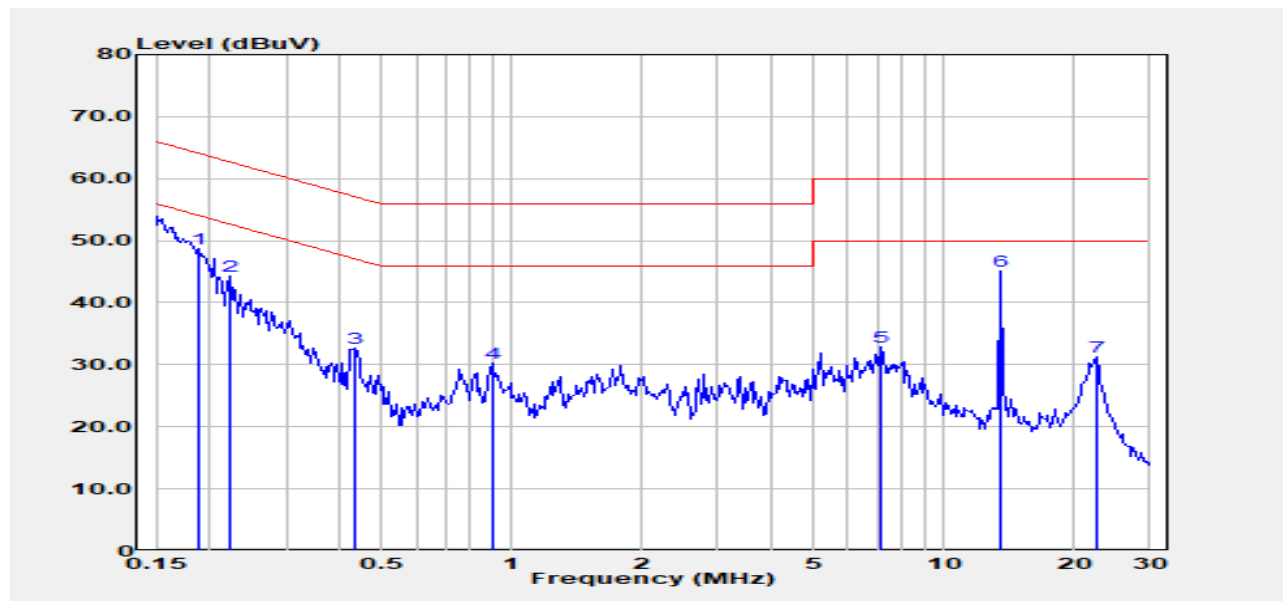
Power :120V/60Hz

Temp./Humi. :24.1°C/55%

Probe :L1

Engineer :Jacky Chen

Note :NFC On



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV	Limit dBμV	Margin dB
0.189	Peak	38.15	10.65	48.80	64.06	-15.27
0.222	Peak	33.68	10.65	44.33	62.74	-18.42
0.433	Peak	22.09	10.62	32.71	57.20	-24.49
0.899	Peak	19.68	10.68	30.36	56.00	-25.64
7.175	Peak	22.00	10.96	32.95	60.00	-27.05
13.551	Peak	34.00	11.05	45.05	-	-
22.535	Peak	19.97	11.22	31.19	60.00	-28.81

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Report Number :TERF2604001304E2

Test Site :Conduction C

Test Mode :NFC

Test Date :2026-04-27

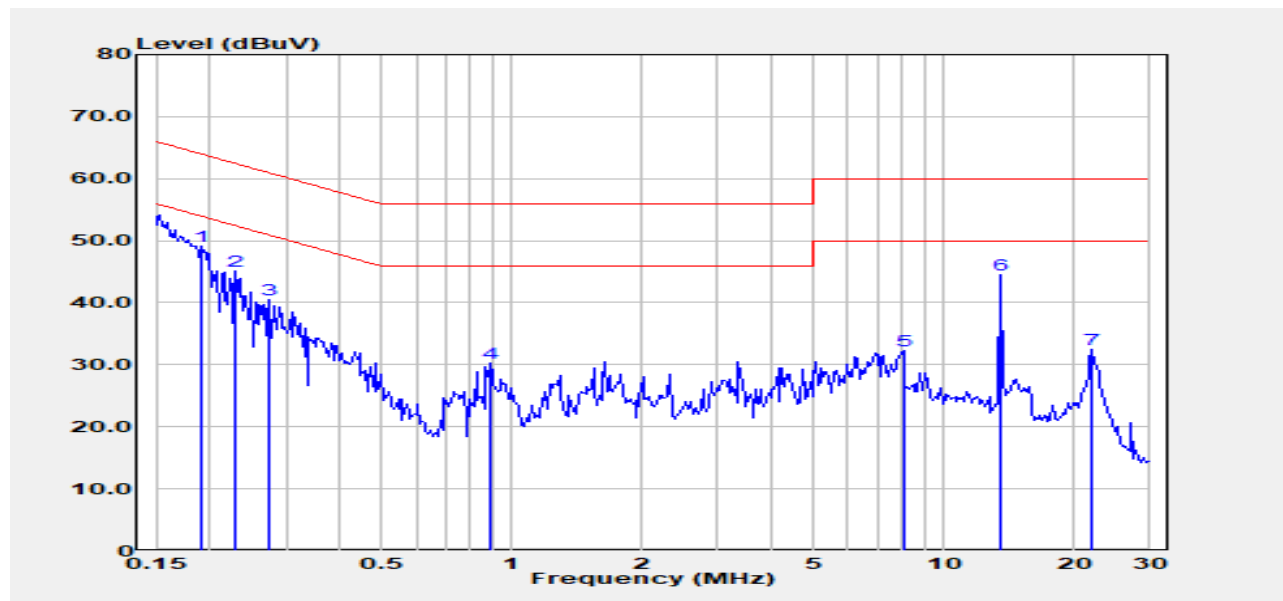
Power :120V/60Hz

Temp./Humi. :24.1°C/55%

Probe :N

Engineer :Jacky Chen

Note :NFC On



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V	Limit dB μ V	Margin dB
0.191	Peak	38.45	10.65	49.10	63.98	-14.88
0.229	Peak	34.53	10.64	45.17	62.48	-17.31
0.274	Peak	29.77	10.63	40.40	60.98	-20.58
0.890	Peak	19.56	10.66	30.22	56.00	-25.78
8.062	Peak	21.29	10.95	32.24	60.00	-27.76
13.551	Peak	33.46	11.04	44.51	-	-
22.063	Peak	21.24	11.22	32.46	60.00	-27.54

~ End of Report ~

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