

**ELECTROMAGNETIC EMISSIONS
COMPLIANCE REPORT**

EUT Description Mini

Applicant: Quanta Computer Inc.
No. 188, Wenhua 2nd Road, Guishan District, Taoyuan City
33377, Taiwan

Manufacturer: Quanta Computer Inc.
No. 188, Wenhua 2nd Road, Guishan District, Taoyuan City
33377, Taiwan

Brand Name: Clover

Model No./ISED HVIN: C306

ISED PMN: C306

Report Number: TERF2606002126E2

FCC ID HFS-C306

IC: 1787B-C306

Date of EUT Received: June 17, 2026

Date of Test: July 8, 2026 ~ July 30, 2026

Issue Date: August 10, 2026

Approved By**Aken Huang****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, ISED 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
TERF2606002126E2	00	Original	August 10, 2026	Karen Huang	

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	Mini
Brand Name:	Clover
Model No. /ISED HVIN:	C306
Firmware Version:	N/A
EUT Series No.:	C036UG62040030
Power Supply:	12 Vdc
Test Software (Name/Version)	default

1.2 RF specification

Radio Technology:	NFC
Operating Frequency	13.56MHz
Transmit Power	< 39.84dBuV/m at 30m.
Number of Channels	1
Modulation Type	ASK
Antenna Type	Loop Antenna

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	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

2.1 Test Methodology of Applied Standards

FCC Part 15, Subpart C §15.225

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

RSS-210, Issue 11 June 2024

ANSI C63.10-2020

ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024+Errata to C63.10a-2024

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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 E	Henry Chiang	23.4~24.1°C / 67~71%	2026/7/15 ~ 2026/7/30

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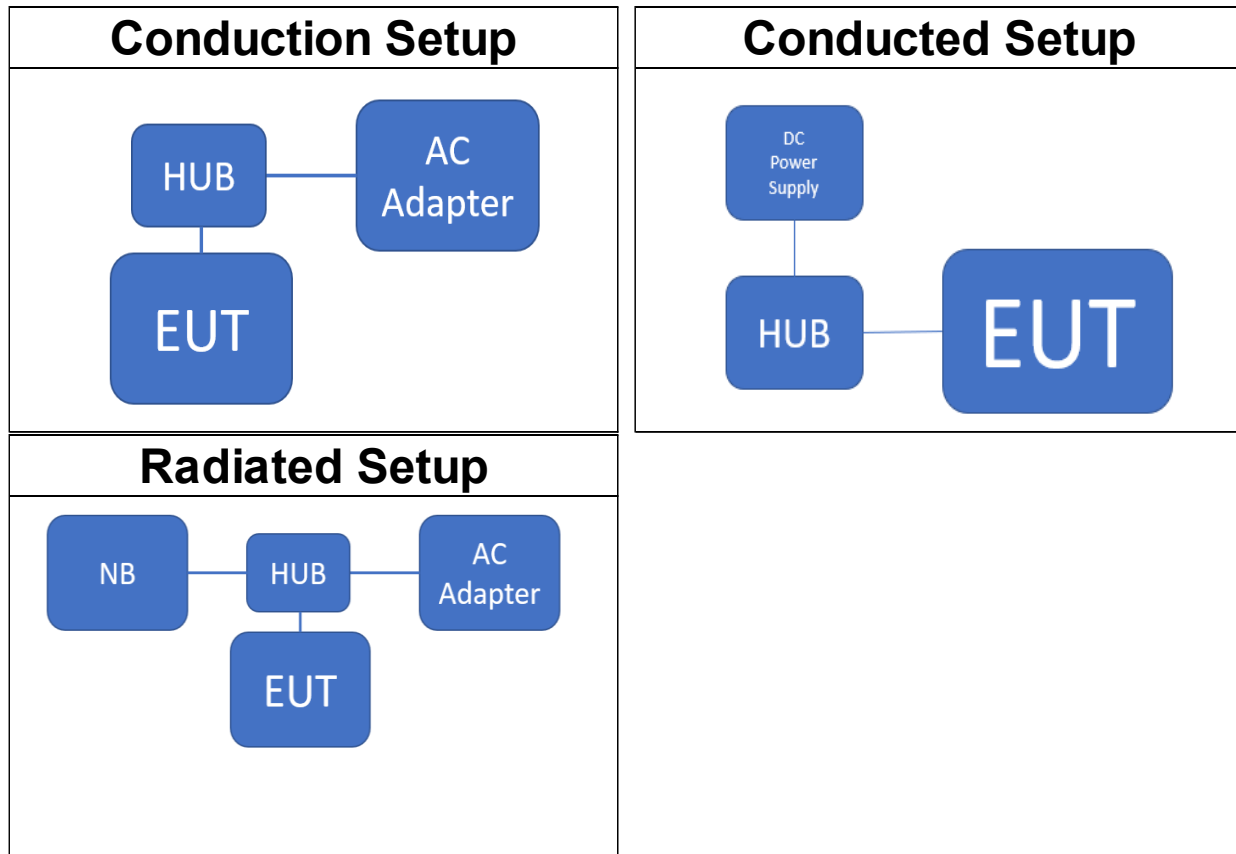
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3 CONTROL UNIT(S) AND PERIPHERAL(S)

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



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)
HUB	clover	H306	H036WG54640059	N/A	N/A
Adapter	clover	FSP040-RHBN3	N/A	N/A	N/A

3.3.2 Conducted Setup

Conducted Emission Test Site: Conducted E					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL. (mm/dd/yyyy)	CAL DUE. (mm/dd/yyyy)
HUB	clover	H306	H036WG54640068	N/A	N/A

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3.3.1 Radiated Setup

Radiated Emission Test Site: SAC G					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL. (mm/dd/yyyy)	CAL DUE. (mm/dd/yyyy)
HUB	clover	H306	H036WG54640059	N/A	N/A
Adapter	clover	FSP040-RHBN3	N/A	N/A	N/A
Notebook	Lenovo	T470	P0001293	N/A	N/A

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4 TEST INSTRUMENT

4.1 Conducted Measurement

Conducted Emission Test Site: Conducted E					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL. (mm/dd/yyyy)	CAL DUE. (mm/dd/yyyy)
Attenuator	Woken	WATT-218FS-10	RF21	11/13/2025	11/12/2026
DC Block	Marvelous	MVE6114	RF42	11/13/2025	11/12/2026
DC Power Supply	Gwinstek	SPD-3606	GEV923152	05/14/2026	05/13/2027
Spectrum Analyzer	KEYSIGHT	N9010B	MY59071574	07/01/2026	06/30/2027
Temperature Chamber	Haich	HC-TOPH-30-CHP	QHC20230320-100-2	08/29/2025	08/28/2026
H-Loop Near Field Antenna	LANGER EMV-Technik	RF-R 400-1	Feb-31	N.C.R	N.C.R

4.2 Radiated Measurement

Radiated Emission Test Site: SAC G					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL. (mm/dd/yyyy)	CAL DUE. (mm/dd/yyyy)
3m Site NSA	SGS	966 chamber G	N/A	03/30/2026	03/29/2027
Active Loop Antenna	COM-POWER	AL-130R	10160105	12/16/2025	12/15/2026
Broadband Antenna	SCHWARZBECK	VULB 9168	1206	01/08/2026	01/07/2027
Coaxial Cable	EMCI+Huber Suhner	EMCCFD400-NM-NM-8000+EMCCFD400-NM-NM-5000+SUCOFLEX100+EMC104-SM-SM-2000+EMC104-SM-SM-8000+EMC104-SM-SM-5000	210216+210217+84103701/15+160105+210217+210220	11/13/2025	11/12/2026
Pre-Amplifier	EMC Instruments	EMC330N	980781	11/13/2025	11/12/2026
Spectrum Analyzer	KEYSIGHT	N9010B	MY63440390	02/02/2026	02/01/2027
Test Software	audix	e3	E3 210616 SGS Ver.9 (C)	N.C.R	N.C.R

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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	973	04/20/2026	04/19/2027
Pulse Limiter	EC Lab	VTSD 9561F-N	485	03/27/2026	03/26/2027
Test Software	audix	e3	E3 210616 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.

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

For licence-exempt radio apparatus, the frequency stability shall be measured at temperatures of -20°C (-4°F), +20°C (+68°F) and +50°C (+122°F)

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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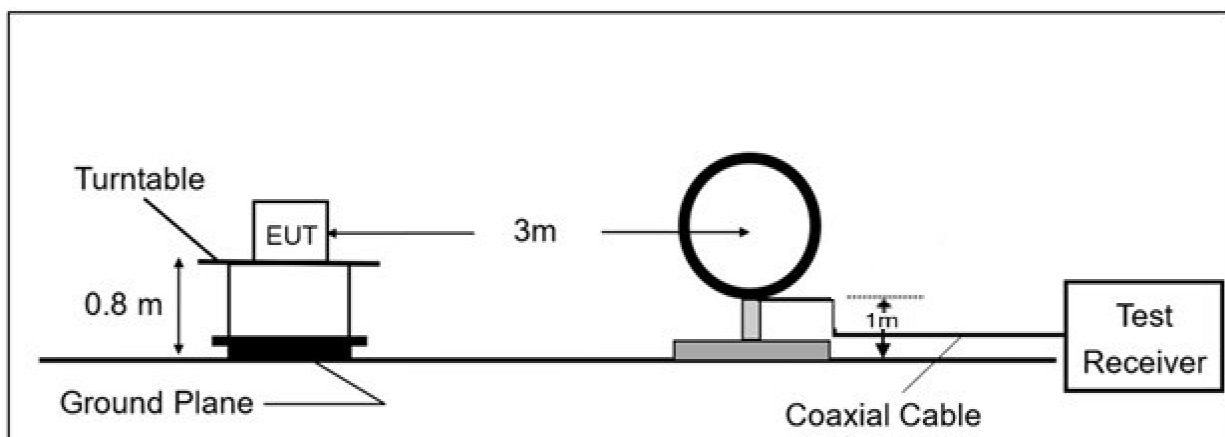
6 TEST CONFIGURATION

6.1 Radiated Emission

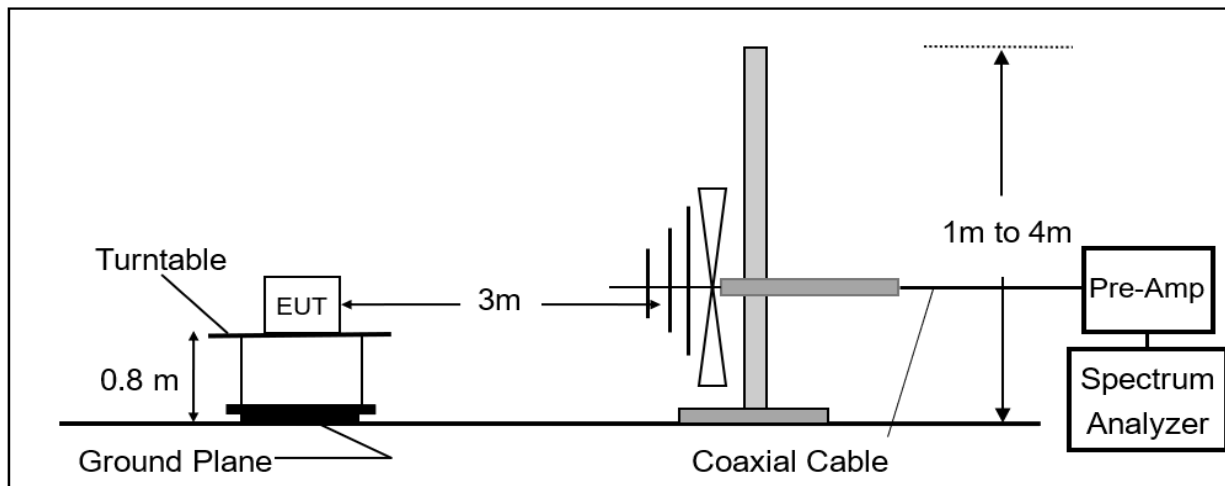
Radiated emission below 30MHz is measured in a 9m*6m*6m semi-anechoic chamber, the measurements correspond to those obtained at an open-field test site.

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.



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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

- 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.
- 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.
- Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
- And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
- 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 (dBμV/m)
 RA = Reading Amplitude (dBμV)
 AF = Antenna Factor (dB/m)
 CL = Cable Loss (dB)
 AG = Amplifier Gain (dB)

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

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

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

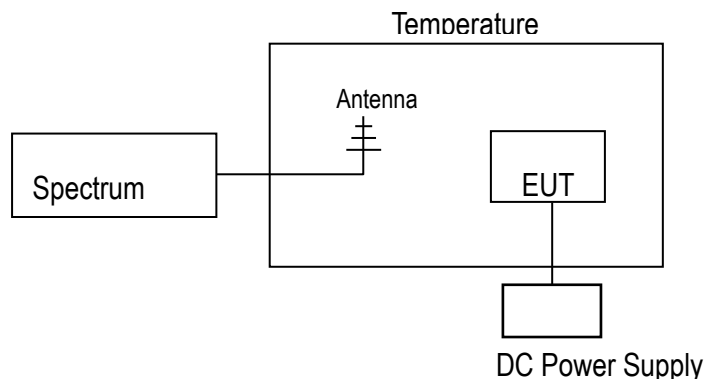
Above 30 MHz of Factor(dB) = Antenna Factor(dB/m) + Cable Loss(dB) – Pre_Amp Gain (dB)

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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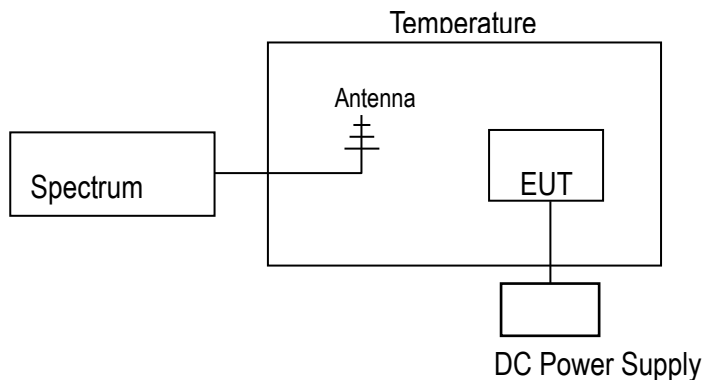
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6.2 Frequency Stability



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.

6.3 Emission Bandwidth

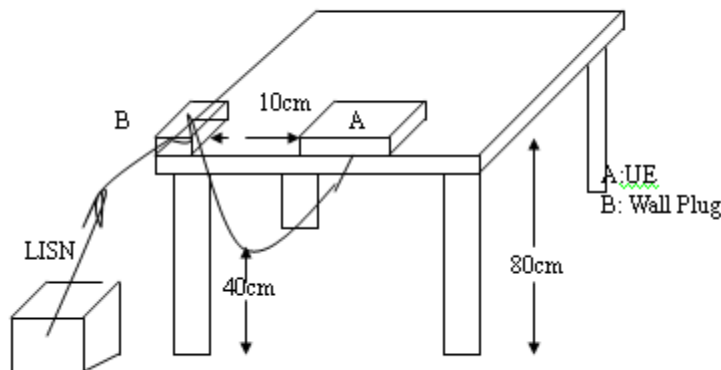


1. Placed the EUT on the testing table.
2. Set the EUT under transmission condition continuously at specific channel frequency.
3. Set the spectrum analyzer as
Center Frequency = fundamental frequency,
RBW=1% to 5% OBW and without going below 0.1kHz,
VBW $\geq$ 3 x RBW,
Span = 2 to 5 times OBW
4. Use 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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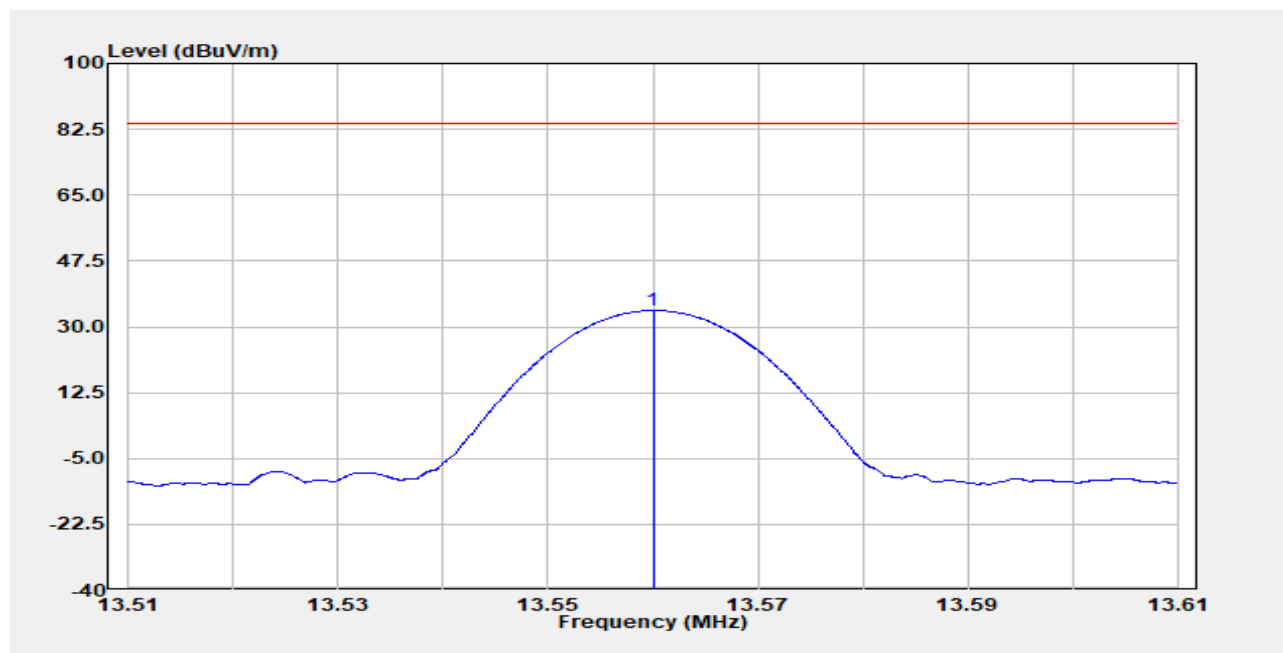
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7 TEST RESULTS

7.1 Field Strength of Fundamental Emission Measurement Result

Report Number :TERF2606002126E2
 Operation Mode :NFC
 Test Frequency :13.56 MHz
 Test Mode :Main
 EUT Pol :E2 Plane

Test Site :SAC G Chamber
 Test Date :2026-07-29
 Temp./Humi. :22.0°C/61%
 Antenna Pol. : Ground Parallel
 Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit dBμV/m	Margin dB
13.56	Peak	58.44	-24.11	34.33	84.00	-49.67

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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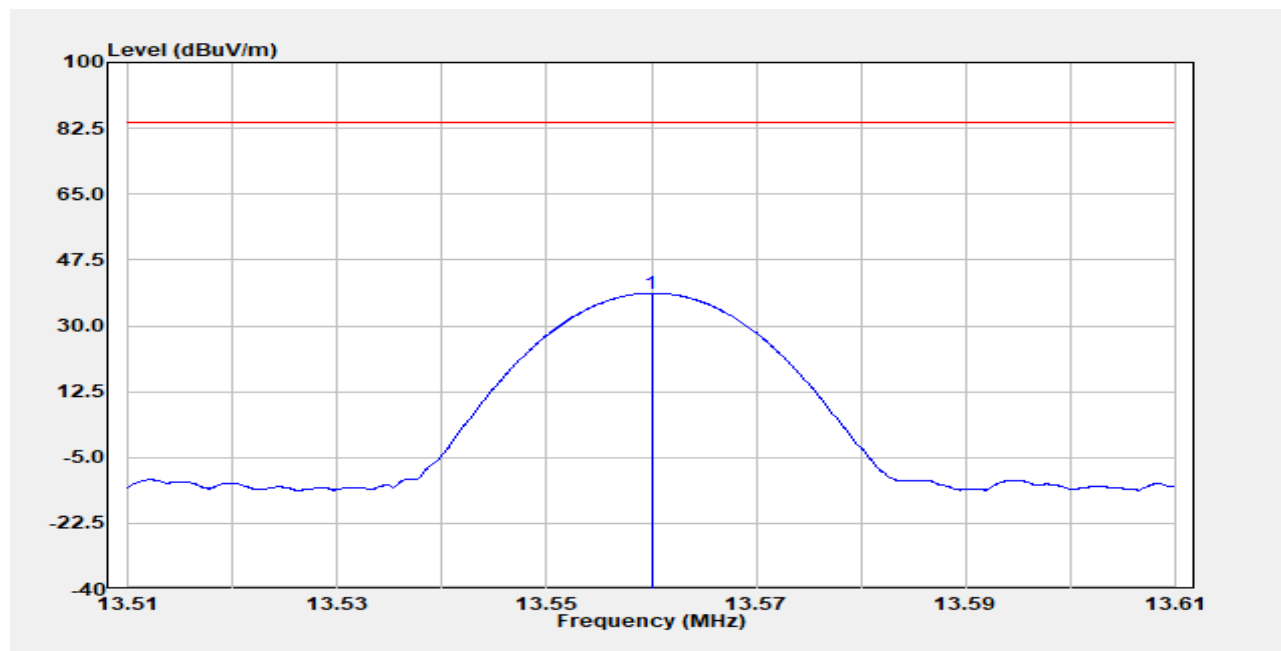
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Report Number :TERF2606002126E2
 Operation Mode :NFC
 Test Frequency :13.56 MHz
 Test Mode :Main
 EUT Pol :E2 Plane

Test Site :SAC G Chamber
 Test Date :2026-07-29
 Temp./Humi. :22.0°C/61%
 Antenna Pol. : Parallel
 Engineer :Temo 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	62.81	-24.11	38.70	84.00	-45.30

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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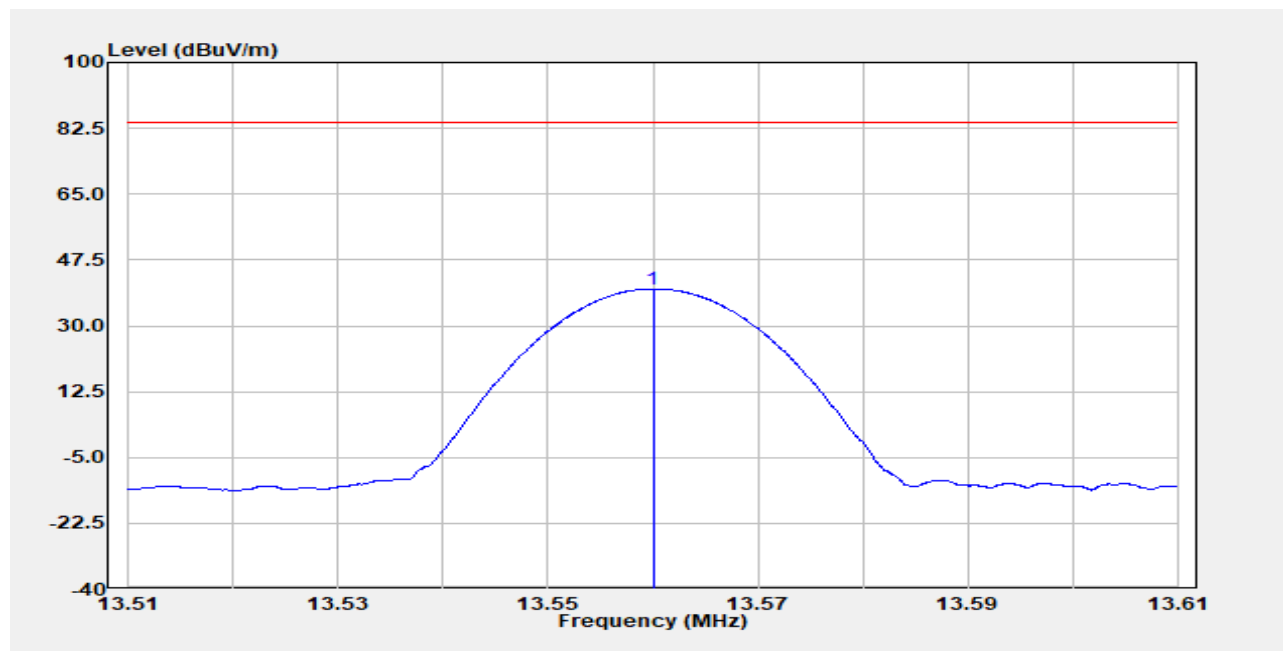
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Report Number :TERF2606002126E2
 Operation Mode :NFC
 Test Frequency :13.56 MHz
 Test Mode :Main
 EUT Pol :E2 Plane

Test Site :SAC G Chamber
 Test Date :2026-07-29
 Temp./Humi. :22.0°C/61%
 Antenna Pol. : Perpendicular
 Engineer :Temo 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	63.95	-24.11	39.84	84.00	-44.16

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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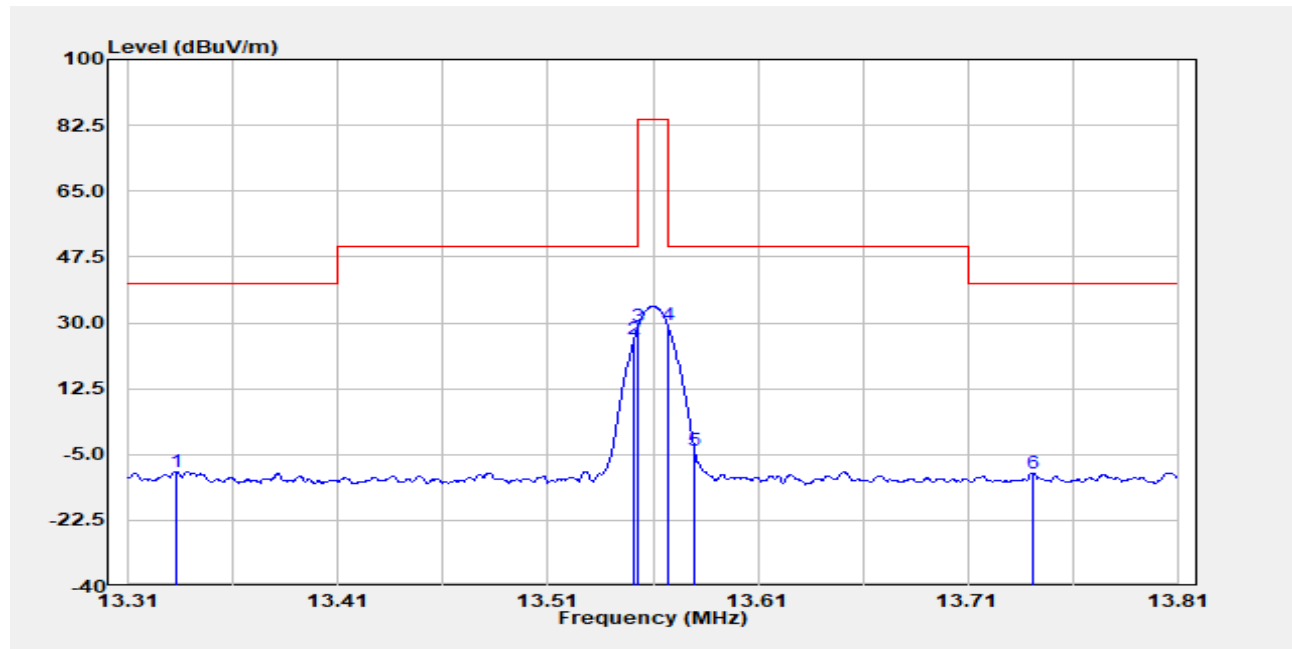
f (886-2) 2298-0488

www.sgs.com.tw

Member of SGS Group

Report Number :TERF2606002126E2
 Operation Mode :NFC
 Test Frequency :13.56 MHz
 Test Mode :Mask
 EUT Pol :E2 Plane

Test Site :SAC G Chamber
 Test Date :2026-07-29
 Temp./Humi. :22.0°C/61%
 Antenna Pol. : Ground Parallel
 Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit dBμV/m	Margin dB
13.333	Peak	14.52	-24.11	-9.59	40.54	-50.13
13.551	Peak	49.75	-24.11	25.64	50.47	-24.83
13.553	Peak	53.24	-24.11	29.13	50.47	-21.34
13.567	Peak	53.65	-24.11	29.54	50.47	-20.93
13.58	Peak	20.00	-24.11	-4.11	50.47	-54.58
13.741	Peak	14.25	-24.11	-9.86	40.50	-50.36

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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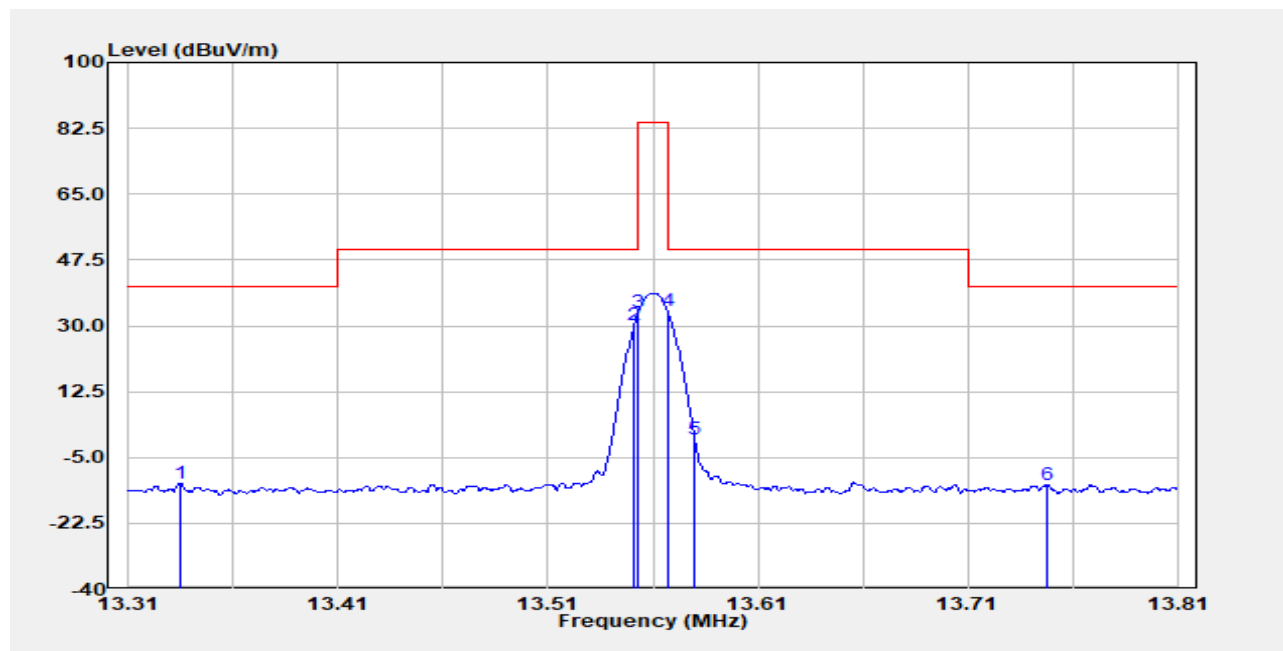
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Member of SGS Group

Report Number :TERF2606002126E2
 Operation Mode :NFC
 Test Frequency :13.56 MHz
 Test Mode : Mask
 EUT Pol :E2 Plane

Test Site :SAC G Chamber
 Test Date :2026-07-29
 Temp./Humi. :22.0°C/61%
 Antenna Pol. : Parallel
 Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit dBuV/m	Margin dB
13.335	Peak	12.20	-24.11	-11.91	40.54	-52.45
13.551	Peak	54.20	-24.11	30.09	50.47	-20.38
13.553	Peak	57.66	-24.11	33.55	50.47	-16.92
13.567	Peak	58.08	-24.11	33.97	50.47	-16.50
13.58	Peak	23.87	-24.11	-0.24	50.47	-50.71
13.748	Peak	11.75	-24.11	-12.36	40.50	-52.86

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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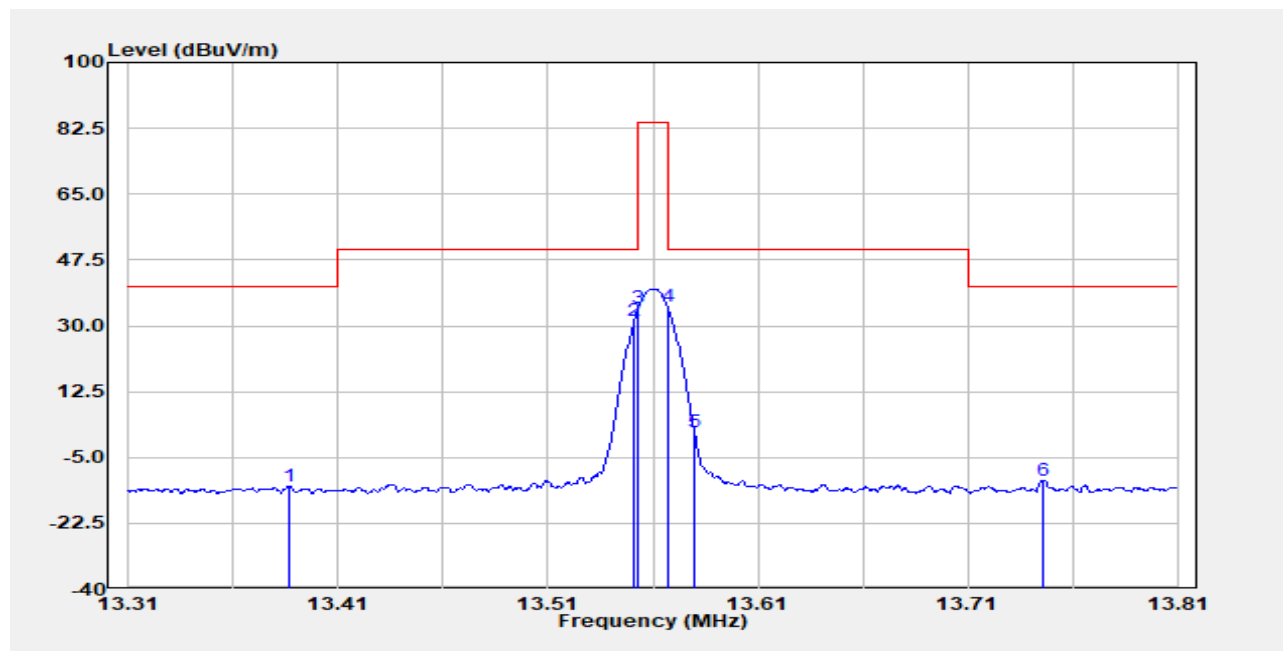
f (886-2) 2298-0488

www.sgs.com.tw

Member of SGS Group

Report Number :TERF2606002126E2
 Operation Mode :NFC
 Test Frequency :13.56 MHz
 Test Mode : Mask
 EUT Pol :E2 Plane

Test Site :SAC G Chamber
 Test Date :2026-07-29
 Temp./Humi. :22.0°C/61%
 Antenna Pol. : Perpendicular
 Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit dBUV/m	Margin dB
13.387	Peak	11.29	-24.11	-12.82	40.54	-53.36
13.551	Peak	55.35	-24.11	31.24	50.47	-19.23
13.553	Peak	58.76	-24.11	34.65	50.47	-15.82
13.567	Peak	59.23	-24.11	35.12	50.47	-15.35
13.58	Peak	25.68	-24.11	1.57	50.47	-48.90
13.746	Peak	12.98	-24.11	-11.13	40.50	-51.63

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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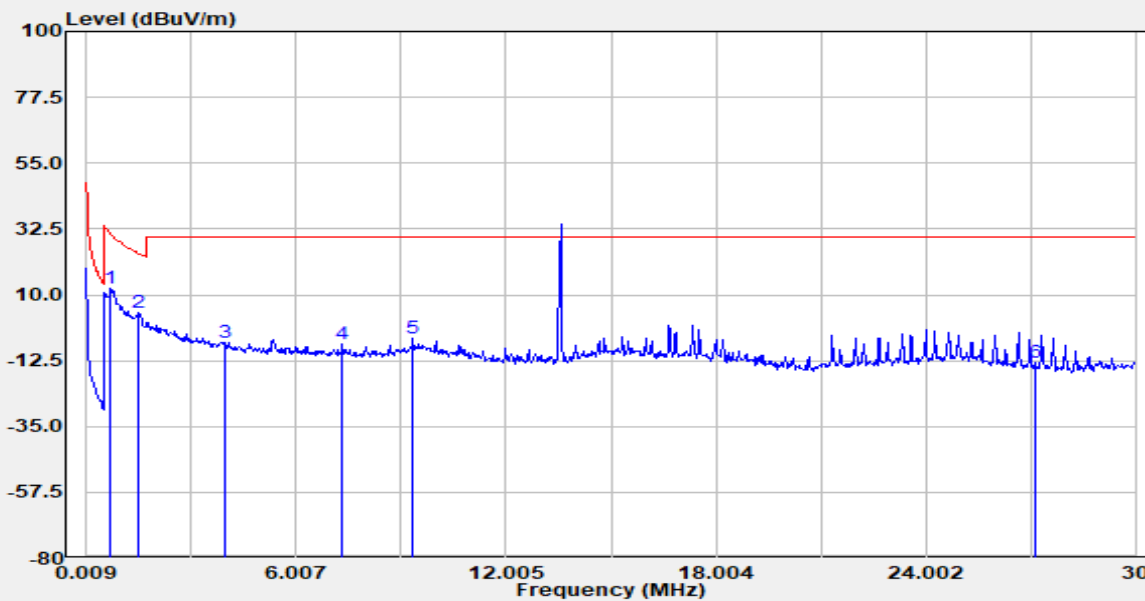
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7.2 Radiated Spurious Emission Measurement Result

Report Number :TERF2606002126E2
 Operation Mode :NFC
 Test Frequency :13.56 MHz
 Test Mode :Tx
 EUT Pol :E2 Plane

Test Site :SAC G Chamber
 Test Date :2026-07-29
 Temp./Humi. :22.0°C/61%
 Antenna Pol. : Ground Parallel
 Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit dB μ V/m	Margin dB
0.69879	Peak	37.91	-25.79	12.12	30.72	-18.60
1.479	Peak	29.33	-25.63	3.70	24.21	-20.51
3.938	Peak	18.90	-25.15	-6.25	29.54	-35.79
7.327	Peak	17.57	-24.26	-6.69	29.54	-36.23
9.336	Peak	19.71	-24.45	-4.74	29.54	-34.28
27.12	Peak	12.78	-26.14	-13.36	29.54	-42.90

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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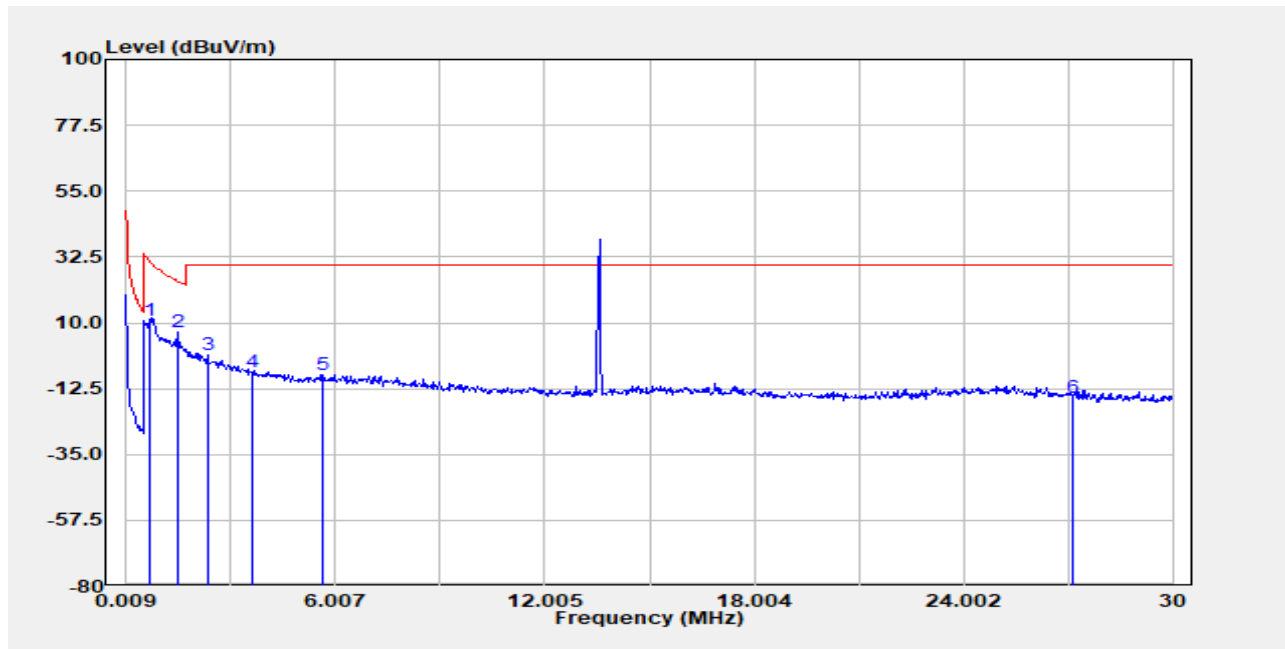
f (886-2) 2298-0488

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Member of SGS Group

Report Number :TERF2606002126E2
 Operation Mode :NFC
 Test Frequency :13.56 MHz
 Test Mode :Tx
 EUT Pol :E2 Plane

Test Site :SAC G Chamber
 Test Date :2026-07-29
 Temp./Humi. :22.0°C/61%
 Antenna Pol. : Parallel
 Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit dB μ V/m	Margin dB
0.69879	Peak	36.42	-25.79	10.63	30.72	-20.09
1.479	Peak	32.33	-25.63	6.70	24.21	-17.51
2.348	Peak	24.64	-25.39	-0.75	29.54	-30.29
3.638	Peak	18.36	-25.19	-6.83	29.54	-36.37
5.617	Peak	16.99	-24.61	-7.62	29.54	-37.16
27.12	Peak	10.45	-26.14	-15.69	29.54	-45.23

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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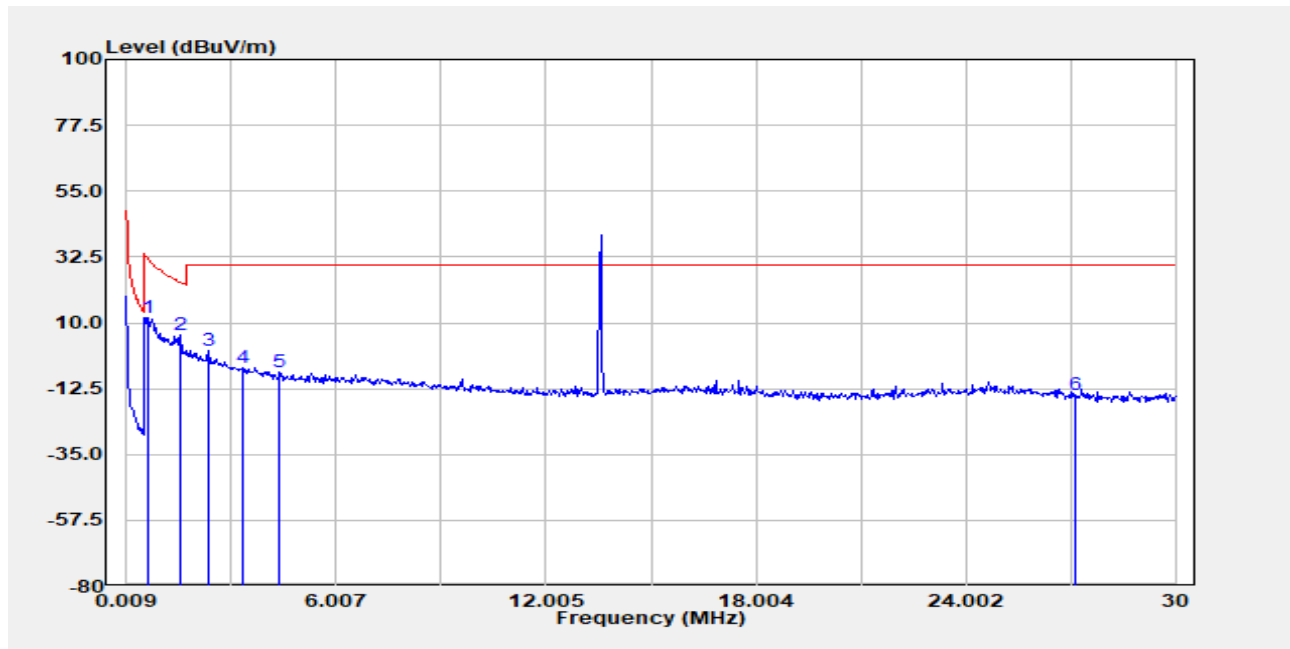
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Member of SGS Group

Report Number :TERF2606002126E2
 Operation Mode :NFC
 Test Frequency :13.56 MHz
 Test Mode :Tx
 EUT Pol :E2 Plane

Test Site :SAC G Chamber
 Test Date :2026-07-29
 Temp./Humi. :22.0°C/61%
 Antenna Pol. : Perpendicular
 Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit dBμV/m	Margin dB
0.63881	Peak	37.74	-25.85	11.89	31.50	-19.61
1.569	Peak	31.36	-25.60	5.76	23.70	-17.94
2.378	Peak	25.80	-25.38	0.42	29.54	-29.12
3.308	Peak	19.84	-25.22	-5.38	29.54	-34.92
4.388	Peak	18.47	-25.18	-6.71	29.54	-36.25
27.12	Peak	11.69	-26.14	-14.45	29.54	-43.99

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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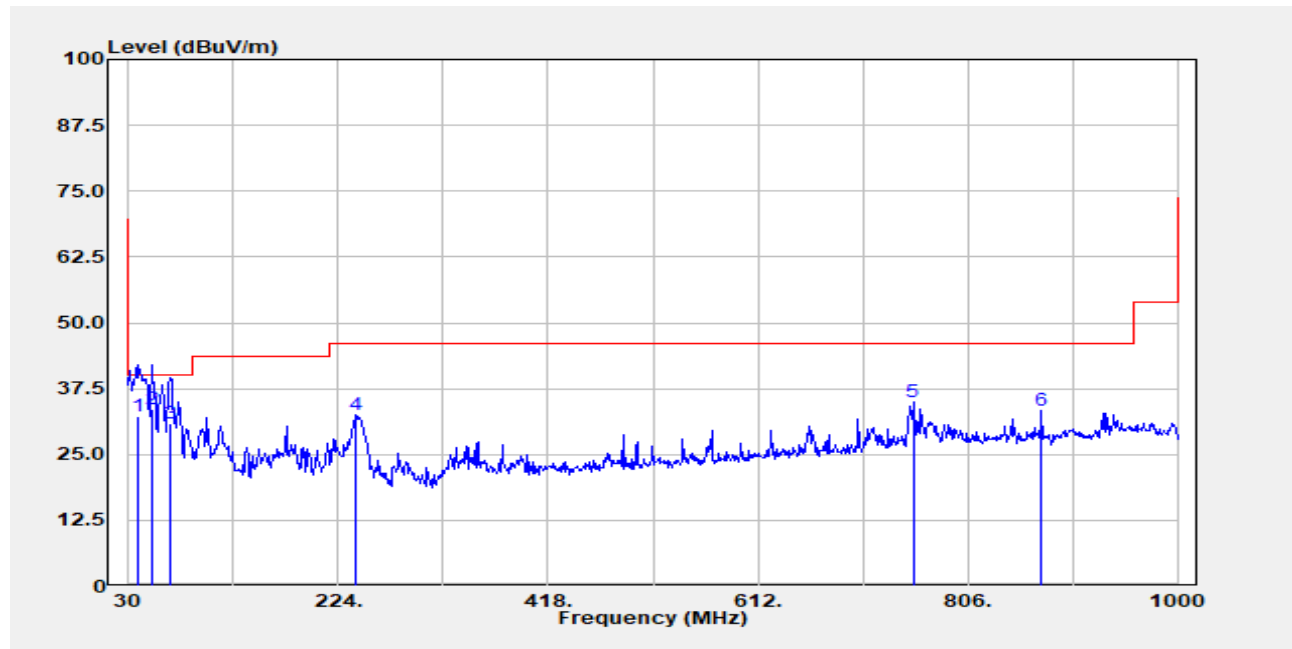
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Report Number :TERF2606002126E2
 Operation Mode :NFC
 Test Frequency :13.56 MHz
 Test Mode :Tx
 EUT Pol :E2 Plane

Test Site :SAC G Chamber
 Test Date :2026-07-29
 Temp./Humi. :22.0°C/61%
 Antenna Pol. :Vertical
 Engineer :Temo Chen



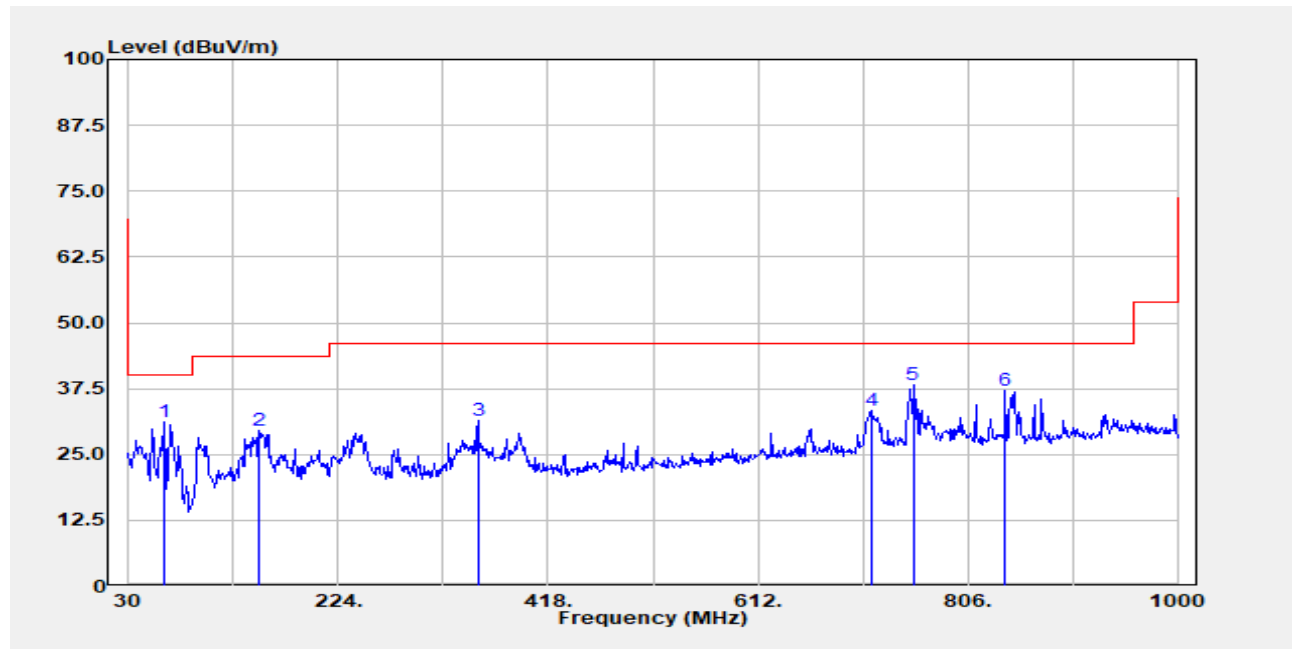
Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit dBμV/m	Margin dB
37.76	QP	46.00	-13.84	32.16	40.00	-7.84
52.31	QP	46.40	-12.81	33.59	40.00	-6.41
68.80	QP	45.90	-14.98	30.92	40.00	-9.08
239.52	Peak	46.99	-14.49	32.50	46.00	-13.50
755.56	Peak	37.35	-2.29	35.06	46.00	-10.94
874.87	Peak	34.49	-1.22	33.27	46.00	-12.73

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Report Number :TERF2606002126E2
 Operation Mode :NFC
 Test Frequency :13.56 MHz
 Test Mode :Tx
 EUT Pol :E2 Plane

Test Site :SAC G Chamber
 Test Date :2026-07-29
 Temp./Humi. :22.0°C/61%
 Antenna Pol. :Horizontal
 Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit dB μ V/m	Margin dB
62.01	Peak	44.74	-13.68	31.06	40.00	-8.94
151.25	Peak	42.59	-13.17	29.42	43.50	-14.08
353.01	Peak	42.66	-11.10	31.56	46.00	-14.44
716.76	Peak	36.75	-3.42	33.33	46.00	-12.67
755.56	Peak	40.59	-2.29	38.30	46.00	-7.70
840.92	Peak	38.30	-1.30	37.00	46.00	-9.00

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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)		
12	-20	13.55985	-0.01000	+/- 1.355986
12	-10	13.55984	-0.02000	+/- 1.355986
12	0	13.55986	0.00000	+/- 1.355986
12	10	13.55984	-0.02000	+/- 1.355986
12	20	13.55986	0.00000	+/- 1.355986
12	30	13.55985	-0.01000	+/- 1.355986
12	40	13.55985	-0.01000	+/- 1.355986
12	50	13.55986	0.00000	+/- 1.355986

B. Supply Voltage Variation

Power Supply	Environment	Frequency	Delta (kHz)	Limit (kHz)
Voltage (V)	Temperature (°C)	(MHz)		
13.8	20	13.55985	-0.01000	+/- 1.355986
12	20	13.55986	0.00000	+/- 1.355986
10.2	20	13.55986	0.00000	+/- 1.355986

2 minutes

A. Temperature Variation

Power Supply	Environment	Frequency	Delta (kHz)	Limit (kHz)
Voltage (V)	Temperature (°C)	(MHz)		
12	-20	13.55986	0.00000	+/- 1.355986
12	-10	13.55984	-0.02000	+/- 1.355986
12	0	13.55984	-0.02000	+/- 1.355986
12	10	13.55986	0.00000	+/- 1.355986
12	20	13.55986	0.00000	+/- 1.355986
12	30	13.55985	-0.01000	+/- 1.355986
12	40	13.55985	-0.01000	+/- 1.355986
12	50	13.55985	-0.01000	+/- 1.355986

B. Supply Voltage Variation

Power Supply	Environment	Frequency	Delta (kHz)	Limit (kHz)
Voltage (V)	Temperature (°C)	(MHz)		
13.8	20	13.55984	-0.02000	+/- 1.355986
12	20	13.55986	0.00000	+/- 1.355986
10.2	20	13.55985	-0.01000	+/- 1.355986

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5 minutes

A. Temperature Variation

Power Supply Voltage (V)	Environment Temperature (°C)	Frequency (MHz)	Delta (kHz)	Limit (kHz)
12	-20	13.55984	-0.02000	+/- 1.355986
12	-10	13.55986	0.00000	+/- 1.355986
12	0	13.55985	-0.01000	+/- 1.355986
12	10	13.55986	0.00000	+/- 1.355986
12	20	13.55986	0.00000	+/- 1.355986
12	30	13.55986	0.00000	+/- 1.355986
12	40	13.55986	0.00000	+/- 1.355986
12	50	13.55985	-0.01000	+/- 1.355986

B. Supply Voltage Variation

Power Supply Voltage (V)	Environment Temperature (°C)	Frequency (MHz)	Delta (kHz)	Limit (kHz)
13.8	20	13.55984	-0.02000	+/- 1.355986
12	20	13.55986	0.00000	+/- 1.355986
10.2	20	13.55985	-0.01000	+/- 1.355986

10 minutes

A. Temperature Variation

Power Supply Voltage (V)	Environment Temperature (°C)	Frequency (MHz)	Delta (kHz)	Limit (kHz)
12	-20	13.55985	-0.01000	+/- 1.355986
12	-10	13.55986	0.00000	+/- 1.355986
12	0	13.55985	-0.01000	+/- 1.355986
12	10	13.55984	-0.02000	+/- 1.355986
12	20	13.55986	0.00000	+/- 1.355986
12	30	13.55986	0.00000	+/- 1.355986
12	40	13.55984	-0.02000	+/- 1.355986
12	50	13.55986	0.00000	+/- 1.355986

B. Supply Voltage Variation

Power Supply Voltage (V)	Environment Temperature (°C)	Frequency (MHz)	Delta (kHz)	Limit (kHz)
13.8	20	13.55985	-0.01000	+/- 1.355986
12	20	13.55986	0.00000	+/- 1.355986
10.2	20	13.55985	-0.01000	+/- 1.355986

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7.4 Emission Bandwidth

FCC

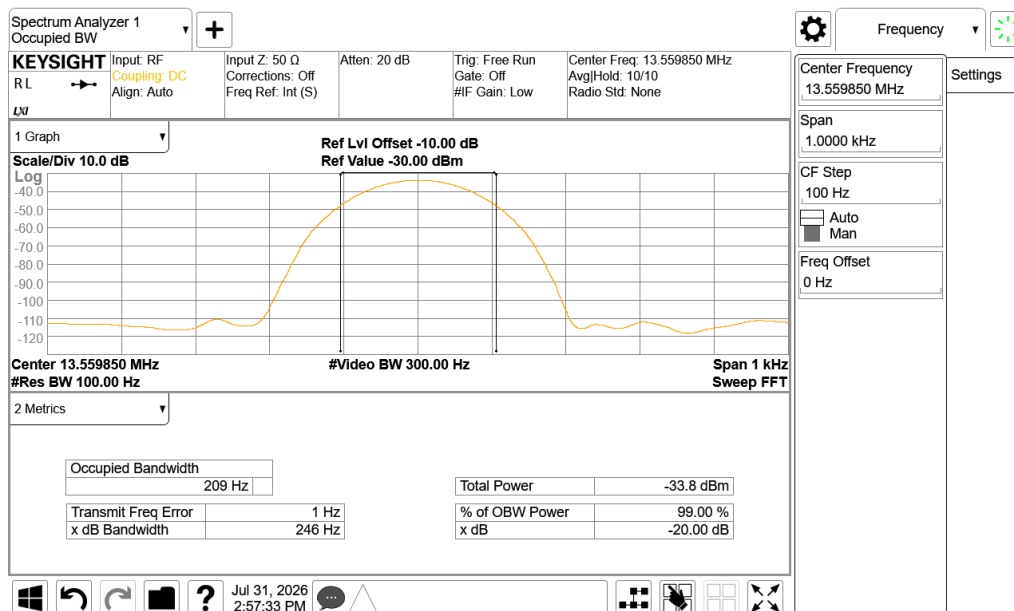
20dB BW (kHz)
0.246

Operation range	Frequency (MHz)	Limit (MHz)
Low	13.559745	>13.11
High	13.559956	<14.01

IC

99% BW (kHz)
0.209

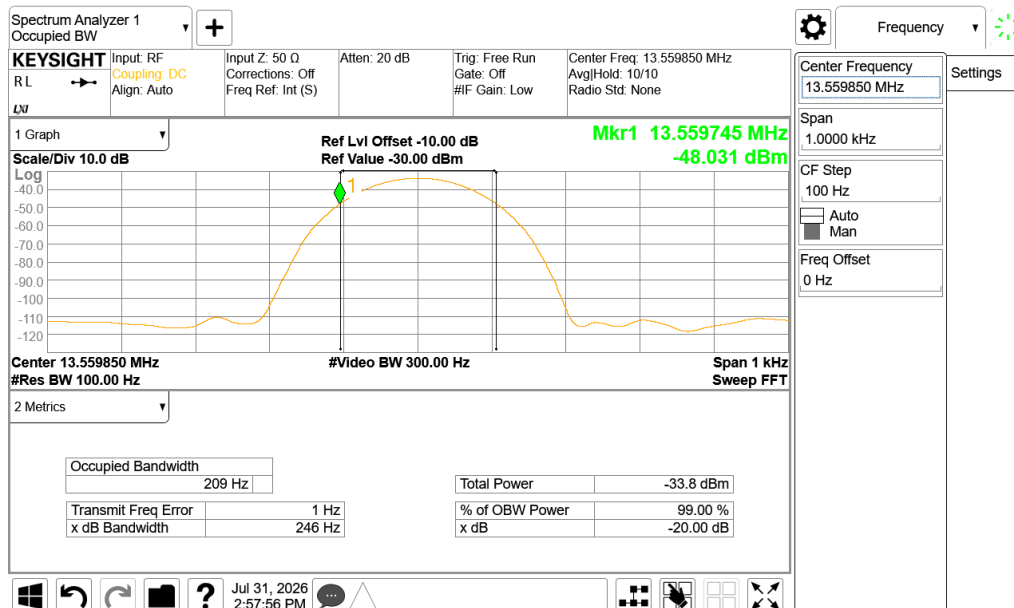
7.4.1 Bandwidth



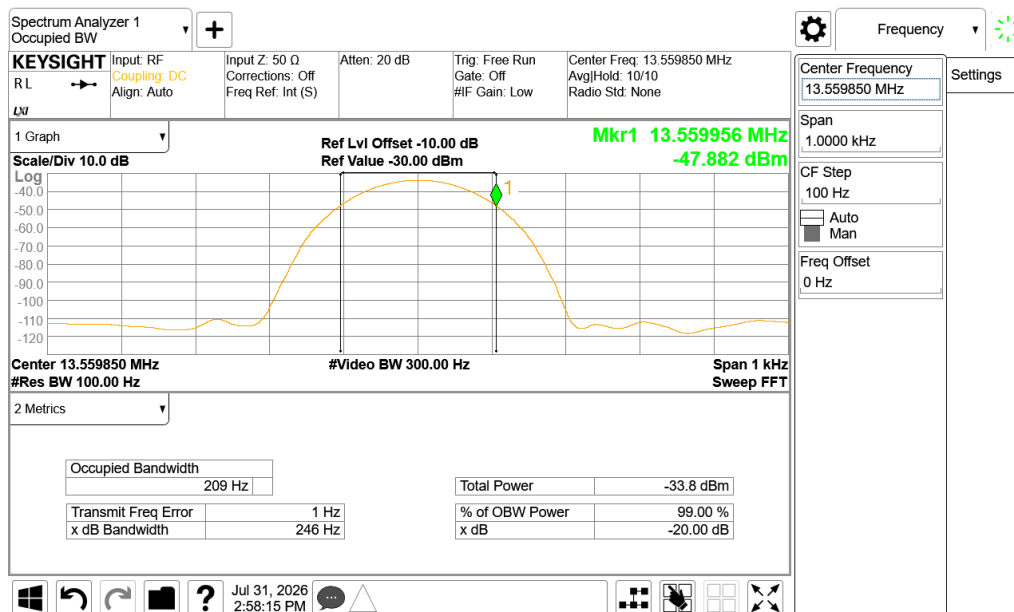
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7.4.2 Operation range low



7.4.3 Operation range High



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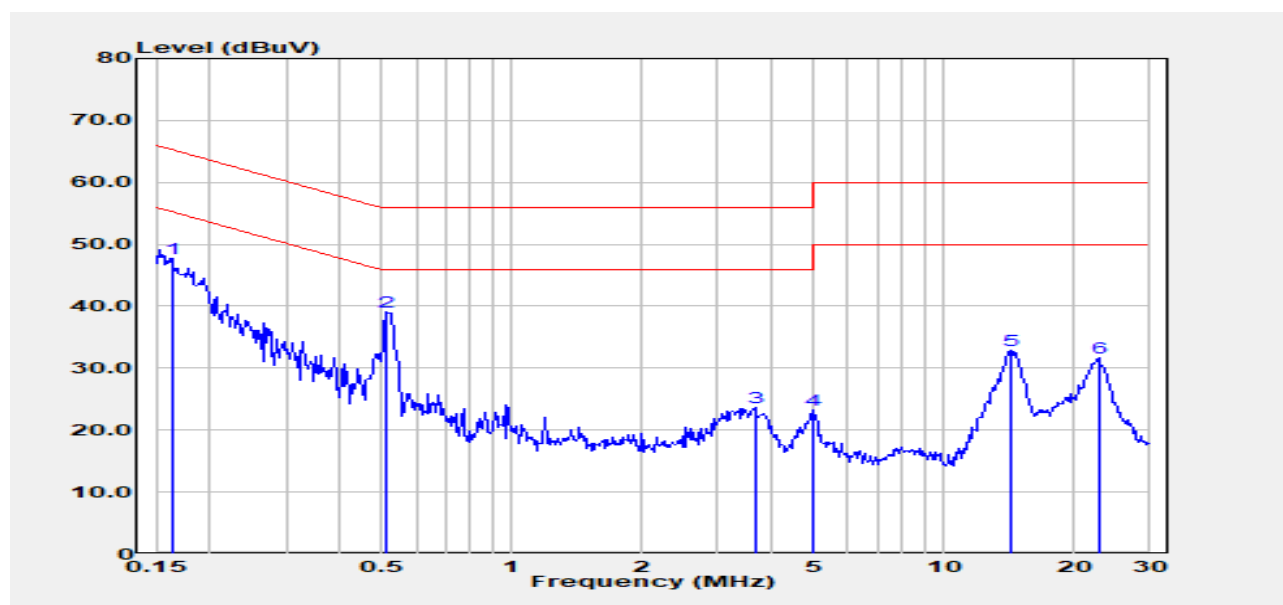
7.5 AC Power Line Conducted

Level = Read Level + Factor

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

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

Report Number	: TERF2606002126E2	Test Site	: Conduction C
Test Mode	: NFC	Test Date	: 2026-07-29
Power	: 120V/60Hz	Temp./Humi.	: 23.7°C/55%
Probe	: L1	Engineer	: Temo Chen
Note	: Standby Mode		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV	Limit dBμV	Margin dB
0.163	Peak	37.06	10.65	47.71	65.29	-17.59
0.514	Peak	28.54	10.62	39.16	56.00	-16.84
3.653	Peak	12.70	10.88	23.58	56.00	-32.42
4.959	Peak	12.29	10.95	23.24	56.00	-32.76
14.332	Peak	21.84	11.06	32.90	60.00	-27.10
22.862	Peak	20.48	11.23	31.71	60.00	-28.29

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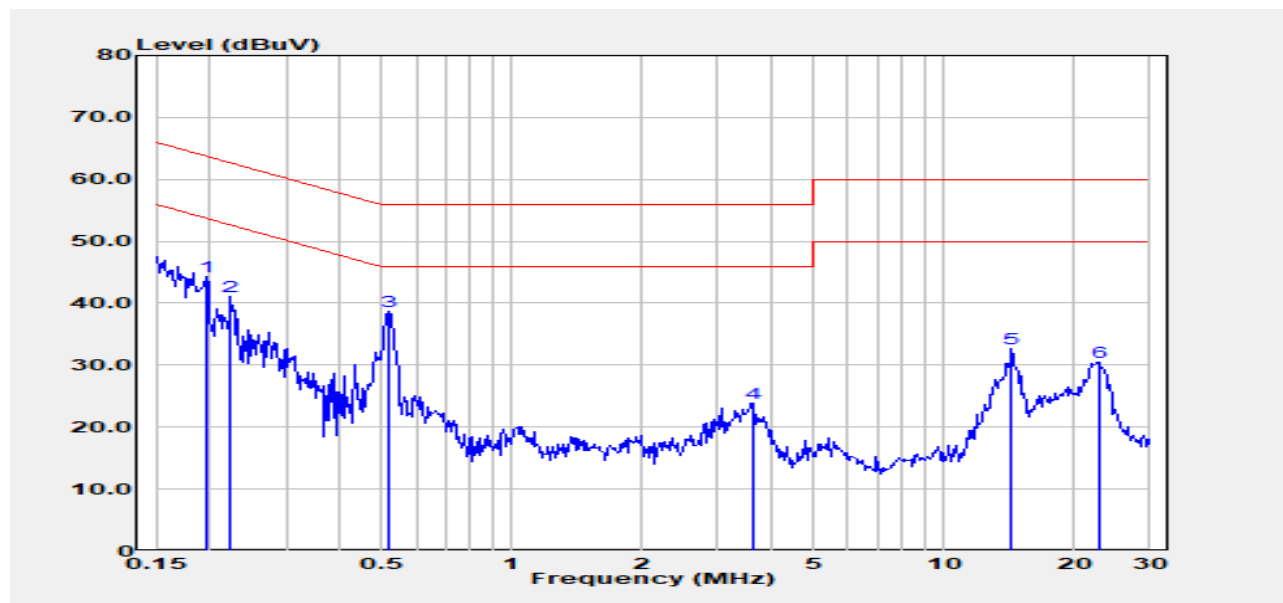
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Report Number	: TERF2606002126E2	Test Site	: Conduction C
Test Mode	: NFC	Test Date	: 2026-07-29
Power	: 120V/60Hz	Temp./Humi.	: 23.7°C/55%
Probe	: N	Engineer	: Temo Chen
Note	: Standby Mode		

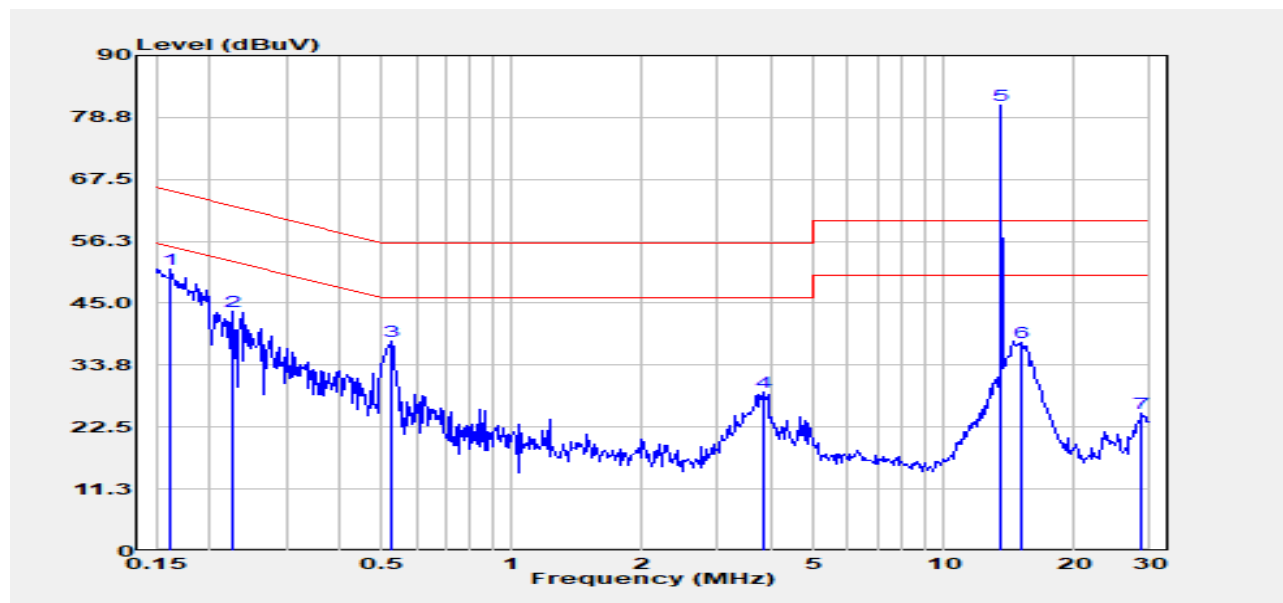


Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V	Limit dB μ V	Margin dB
0.195	Peak	33.74	10.65	44.39	63.81	-19.43
0.224	Peak	30.51	10.64	41.16	62.69	-21.53
0.518	Peak	28.05	10.61	38.65	56.00	-17.35
3.622	Peak	13.03	10.86	23.89	56.00	-32.11
14.332	Peak	21.61	11.06	32.67	60.00	-27.33
22.862	Peak	19.32	11.24	30.55	60.00	-29.45

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Report Number	: TERF2606002126E2	Test Site	: Conduction C
Test Mode	: NFC	Test Date	: 2026-07-29
Power	: 120V/60Hz	Temp./Humi.	: 23.7°C/55%
Probe	: L1	Engineer	: Temo 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
0.162	Peak	40.63	10.65	51.28	65.37	-14.08
0.225	Peak	32.98	10.65	43.63	62.61	-18.99
0.523	Peak	27.52	10.62	38.14	56.00	-17.86
3.811	Peak	17.90	10.89	28.79	56.00	-27.21
13.560	Peak	69.93	11.05	80.98	--	--
15.081	Peak	26.73	11.08	37.80	60.00	-22.20
28.753	Peak	13.65	11.35	25.00	60.00	-35.00

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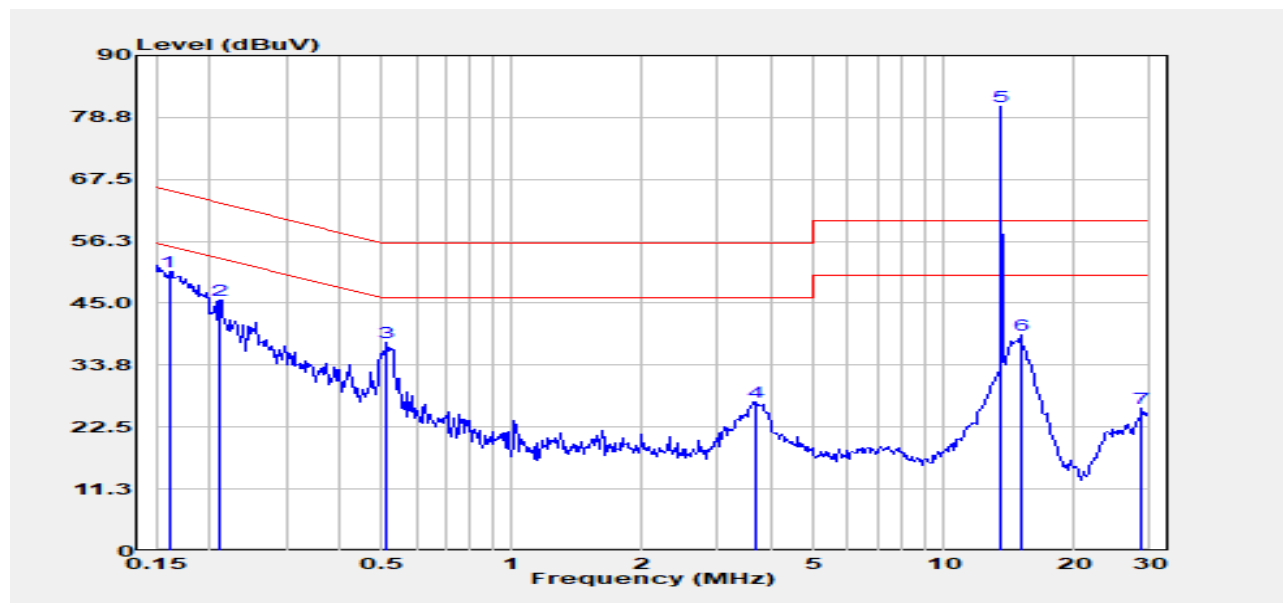
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Report Number	: TERF2606002126E2	Test Site	: Conduction C
Test Mode	: NFC	Test Date	: 2026-07-29
Power	: 120V/60Hz	Temp./Humi.	: 23.7°C/55%
Probe	: N	Engineer	: Temo Chen
Note	: NFC On		



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV	Limit dBμV	Margin dB
0.161	Peak	40.12	10.66	50.78	65.44	-14.66
0.211	Peak	35.01	10.65	45.65	63.18	-17.53
0.514	Peak	27.24	10.61	37.85	56.00	-18.15
3.653	Peak	16.28	10.86	27.14	56.00	-28.86
13.560	Peak	69.61	11.04	80.65	--	--
15.081	Peak	28.10	11.07	39.18	60.00	-20.82
28.753	Peak	14.48	11.37	25.84	60.00	-34.16

~ End of Report ~

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