

TEST REPORT

Applicant Name: Grandstream Networks, Inc.
Address: 126 Brookline Ave., 3rd Floor Boston, MA 02215, USA
Report Number: 2601T59274E-RFE
FCC ID: YZZGRP2624PRO
IC: 11964A-GRP2624PRO

Test Standard (s)

FCC PART 15.225

RSS-GEN ISSUE 5, FEBRUARY 2021 AMENDMENT 2; RSS-210, ISSUE 11, JUNE 25, 2024

Sample Description

Product Type: Carrier-Grade HD IP Phone
Model No.: GRP2624 Pro
Multiple Model(s) No.: SPE-GRP2624 Pro
Trade Mark: GRANDSTREAM
Date Received: 2026-05-20
Issue Date: 2026-09-23

Test Result:

Pass[▲]

▲ In the configuration tested, the EUT complied with the standards above.

Prepared and Checked By:

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Cheeb Huang
RF Engineer

Approved By:

Nancy Wang

Nancy Wang
RF Supervisor

Note: The information marked * is provided by the applicant, the laboratory is not responsible for its authenticity and this information can affect the validity of the result in the test report. Customer model name, addresses, names, trademarks etc. are included.

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DOCUMENT REVISION HISTORY

Revision Number	Report Number	Description of Revision	Date of Revision
0	2601T59274E-RFE	Original Report	2026-09-23

GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

HVIN	GRP2624 Pro, GRP2624 ProM1, SPE-GRP2624 Pro
FVIN	0.7.29.11
Product	Carrier-Grade HD IP Phone
Test Model	GRP2624 Pro
Multiple Model(s)	SPE-GRP2624 Pro
Frequency Range	13.56 MHz
E-field Strength	67.43dBuV/m@3m
Modulation Technique	ASK
Voltage Range	DC 5V from adapter or DC 48V from POE
Sample serial number	3M9F-15 (Assigned by BACL, Shenzhen)
Sample/EUT Status	Good condition
Adapter Information	Adapter 1: Model: GQ12-050200AU Input: 100-240V~50/60Hz, 0.4A Max Output: 5.0V=2.0A Adapter 2: Model: DCT12W050200US-A2 Input: 100-240V~50/60Hz, 0.3A max. Output: 5.0V=2.0A Adapter 3: Model: GLH0502000 Input: 100-240V~50/60Hz, 0.5A Output: 5.0V=2.0A, 10.0W
Note: 1. The Multiple models are electrically identical with the test model except for model name, sales channel, lens screen printing and version. Please refer to the declaration letter [#] for more detail, which was provided by manufacturer. 2. About the version: Model GRP2624 Pro has V1.2 and V1.3 versions; SPE-GRP2624 Pro is only V1.3. All versions share identical electrical characteristics. The only difference lies in the data connection between MB main board and KP sub-board: V1.2 uses pin headers, and V1.3 uses FPC cables. Due to the different connection schemes, there are minor PCB layout differences. Please refer to EUT Photo and declaration letter [#] for more details.	

Objective

This Type approval report is in accordance with Part 2- Subpart J, and Part 15-Subparts A and C of the Federal Communication Commissions rules, RSS-GEN Issue 5, February 2021 Amendment 2 and RSS-210, Issue 11, June 25, 2024 of the Innovation, Science and Economic Development Canada.

Test Methodology

All measurements contained in this report were conducted with ANSI C63.10-2020+Cor.1-2023+C63.10a-2024 + Errata to C63.10a-2024▼, RSS-Gen and RSS-210.

All emissions measurement was performed at Bay Area Compliance Laboratories Corp. (Shenzhen). The radiated testing was performed at an antenna-to-EUT distance of 3 meters.

Each test item follows test standards and with no deviation.

Measurement Uncertainty

Parameter		Uncertainty
Occupied Channel Bandwidth		52.29kHz(k=1.96, 95% level of confidence)
RF Frequency		81.235Hz(k=1.96, 95% level of confidence)
AC Power Lines Conducted Emissions	9kHz~150 kHz	3.46dB(k=2, 95% level of confidence)
	150 kHz ~30MHz	3.72dB(k=2, 95% level of confidence)
Radiated Emissions	0.009MHz~30MHz	3.66dB(k=2, 95% level of confidence)
	30MHz~1000MHz (Horizontal)	5.10dB(k=2, 95% level of confidence)
	30MHz~1000MHz (Vertical)	6.28dB(k=2, 95% level of confidence)
Temperature		$\pm 0.4^{\circ}\text{C}$
Humidity		$\pm 2\%$
Supply voltages		DC $\pm 0.4\%$; AC $\pm 1\%$

Note: The extended uncertainty given in this report is obtained by combining the standard uncertainty times the coverage factor K with the 95% confidence interval. Otherwise required by the applicant or Product Regulations, Decision Rule in this report did not consider the uncertainty.

Test Facility

The Test site used by Bay Area Compliance Laboratories Corp. (Shenzhen) to collect test data is located on the 5F(B-West) , 6F, 7F, the 3rd Phase of Wan Li Industrial Building D, Shihua Rd, FuTian Free Trade Zone, Shenzhen, China.

The lab has been recognized as the FCC accredited lab under the KDB 974614 D01 and is listed in the FCC Public Access Link (PAL) database, test firm registration No.: 715558, the FCC Designation No. : CN5045.

SYSTEM TEST CONFIGURATION

Description of Test Configuration

The system was configured for testing in a typical fashion (as normally used by a typical user).

Note:

1. The EUT powered by three adapters or POE. Per the BT report test result, the worst case is “Powered by Adapter 3” for AC line conducted emissions test and “Powered by Adapter 1” for radiated emissions test. Only the worst case was recorded in this report.
2. Per the BT report test result, the worst case is “Version V1.2” for AC line conducted emissions test and radiated emissions test. Only the worst case was recorded in this report.
3. After testing with a representative tag and without the tags for all measurement, the mode with a representative tag is the worst case. Only the worst case was recorded in this report.

EUT Exercise Software

No Exercise Software was used.

Equipment Modifications

No modification on the EUT.

Support Equipment List and Details

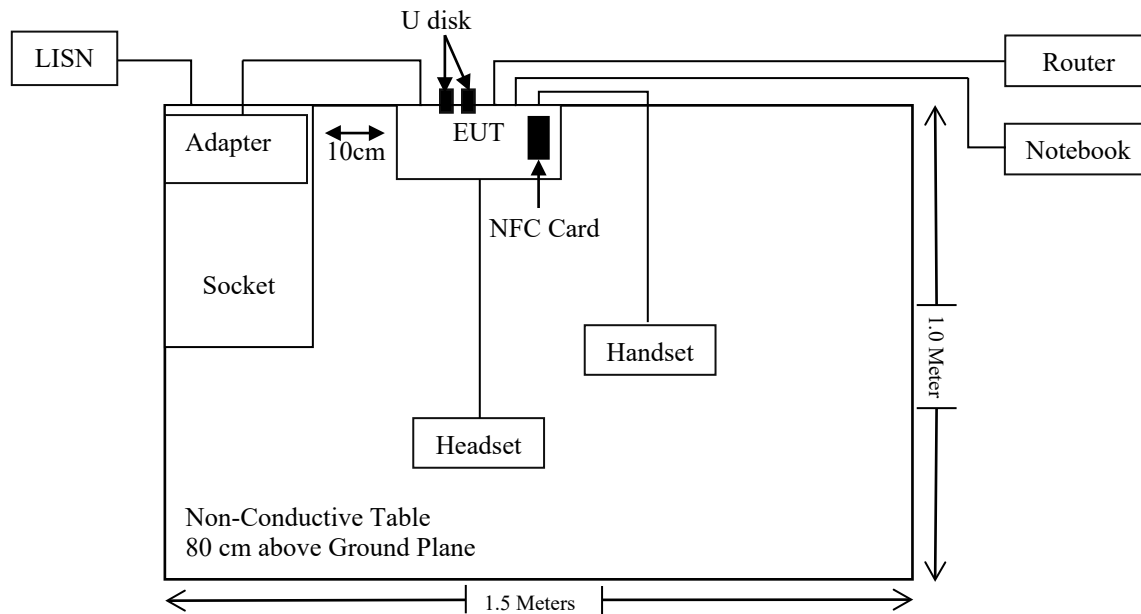
Manufacturer	Description	Model	Serial Number
IMAGITECH	Router	AX1800	YWT0023080000064
Lenovo	Notebook	TIANYI510Pro-18ICB	R3NO28B21001
Unknown	Headset	Unknown	Unknown
Grandstream	Handset	Unknown	Unknown
Netac	U disk	U197	Unknown
Unknown	U disk	Unknown	Unknown
BACL	Resistor	Unknown	Unknown
Grandstream	NFC Card	Unknown	Unknown

External I/O Cable

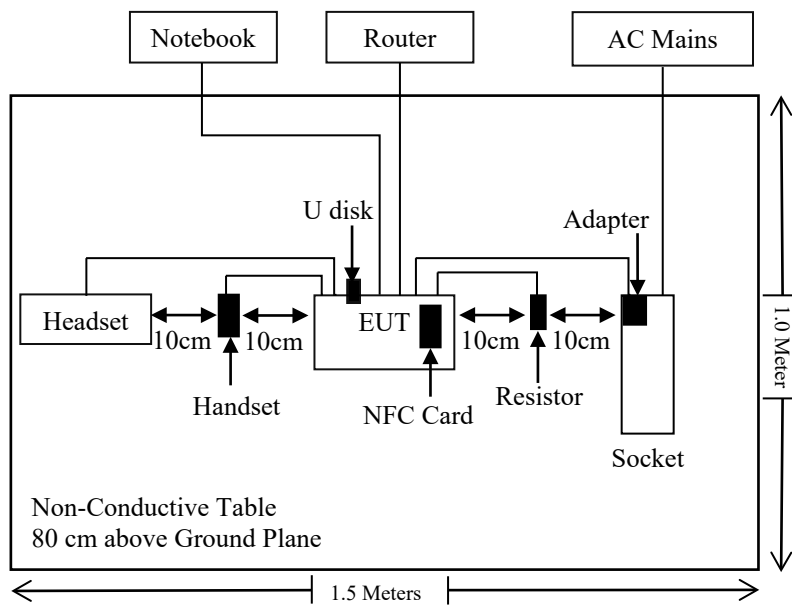
Cable Description	Length (m)	From Port	To
Un-Shielding Un-Detachable AC Cable	1.2	Socket	LISN/AC Mains
Un-Shielding Un-Detachable DC Cable	1.5	EUT	Adapter
Un-Shielding Un-Detachable DC Cable	0.5	EUT	Resistor
Un-Shielding Detachable RJ45 Cable	8.0	EUT	Router
Un-Shielding Detachable RJ45 Cable	8.0	EUT	Notebook
Un-Shielding Un-Detachable RJ11 Cable	1.5	EUT	Headset
Un-Shielding Detachable RJ11 Cable	0.8	EUT	Handset

Block Diagram of Test Setup

For AC Line Conducted Emissions:



For Radiated Emissions:



SUMMARY OF TEST RESULTS

FCC Rules	RSS Rules	Description of Test	Result
FCC §15.203	RSS-Gen §6.8	Antenna Requirement	Compliant
FCC §1.1310& §2.1091	/	Maximum Permissible Exposure (MPE)	Compliant
/	RSS-102 §5.3.2	Exposure Limits	Compliant
FCC §15.207	RSS-Gen §8.8	AC Line Conducted Emission	Compliant
FCC §15.225 §15.209§15.205	RSS-Gen §8.9& RSS-210 §B.6(a)	Radiated Emission Test	Compliant
FCC §15.225(e)	RSS-210 §B.6(b)	Frequency Stability	Compliant
FCC §15.215(c)	/	20dB Emission Bandwidth	Compliant
/	RSS-Gen §6.7	99% Occupied Bandwidth	Compliant

TEST EQUIPMENT LIST

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
AC Line Conducted Emissions Test					
Rohde & Schwarz	EMI Test Receiver	ESCI	101120	2025/09/01	2026/08/31
Rohde & Schwarz	LISN	ENV216	101613	2025/09/18	2026/09/17
Rohde & Schwarz	Transient Limiter	ESH3Z2	DE25985	2025/09/18	2026/09/17
Unknown	CE Cable	Unknown	UF A210B-1-0720-504504	2025/09/18	2026/09/17
Audix	EMI Test software	E3	191218 V9(c)	NCR	NCR
Radiated Emission Test					
Rohde & Schwarz	EMI Test Receiver	ESR3	102455	2025/09/01	2026/08/31
Sonoma instrument	Pre-amplifier	310 N	186238	2025/09/08	2026/09/07
Sunol Sciences	Broadband Antenna	JB1	A040904-1	2026/06/26	2029/06/25
Unknown	Chamber A Cable	Cable A1	Cable A1	2025/09/08	2026/09/07
Unknown	Chamber A Cable	Cable A2	Cable A2	2025/09/08	2026/09/07
BACL	Active Loop Antenna	1313-1A	4031911	2024/05/14	2027/05/13
Unknown	Chamber A Cable	Cable A3	Cable A3	2025/09/08	2026/09/07
Unknown	Chamber A Cable	Cable A4	Cable A4	2025/09/08	2026/09/07
Audix	EMI Test software	E3	19821b(V9)	NCR	NCR
TDK	Chamber	Chamber A	2#	2026/07/03	2029/07/02
Frequency Stability					
Rohde & Schwarz	EMI Test Receiver	ESR3	102455	2025/09/01	2026/08/31
BACL	Active Loop Antenna	1313-1A	4031911	2024/05/14	2027/05/13
Unknown	Chamber A Cable	Cable A3	Cable A3	2025/09/08	2026/09/07
Unknown	Chamber A Cable	Cable A4	Cable A4	2025/09/08	2026/09/07
TDK	Chamber	Chamber A	2#	2026/07/03	2029/07/02
BACL	High Low TEMP Test Chamber	BTH-150-40	30144	2025/09/11	2026/09/10
Fluke	Digital Multimeter	287	19000011	2026/03/16	2027/03/15
HELLVIAO	Contact voltage regulator	TDGC2-5KVA	Unknown	NCR	NCR

* **Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Shenzhen) attests that all calibrations have been performed in accordance to requirements that traceable to National Primary Standards and International System of Units (SI).

FCC§15.203& RSS-GEN CLAUSE 6.8 - ANTENNA REQUIREMENT

Applicable Standard

According to FCC § 15.203, 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.

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.

According to RSS-Gen §6.8, The applicant for equipment certification shall provide a list of all antenna types that may be used with the transmitter, where applicable (i.e. for transmitters with detachable antenna), indicating the maximum permissible antenna gain (in dBi) and the required impedance for each antenna. The test report shall demonstrate the compliance of the transmitter with the limit for maximum equivalent isotropically radiated power (e.i.r.p.) specified in the applicable RSS, when the transmitter is equipped with any antenna type, selected from this list. For expediting the testing, measurements may be performed using only the antenna with highest gain of each combination of transmitter and antenna type, with the transmitter output power set at the maximum level. However, the transmitter shall comply with the applicable requirements under all operational conditions and when in combination with any type of antenna from the list provided in the test report (and in the notice to be included in the user manual, provided below). When measurements at the antenna port are used to determine the RF output power, the effective gain of the device's antenna shall be stated, based on a measurement or on data from the antenna's manufacturer.

The test report shall state the RF power, output power setting and spurious emission measurements with each antenna type that is used with the transmitter being tested. For licence-exempt equipment with detachable antennas, the user manual shall also contain the following notice in a conspicuous location:

This radio transmitter [enter the device's ISCED certification number] has been approved by Innovation, Science and Economic Development Canada to operate with the antenna types listed below, with the maximum permissible gain indicated. Antenna types not included in this list that have a gain greater than the maximum gain indicated for any type listed are strictly prohibited for use with this device.

Immediately following the above notice, the manufacturer shall provide a list of all antenna types which can be used with the transmitter, indicating the maximum permissible antenna gain (in dBi) and the required impedance for each antenna type.

Antenna Connected Construction

The EUT has one internal antenna arrangement for NFC which was permanently attached; fulfill the requirement of this section. Please refer to the EUT photos.

Antenna	Type	Input impedance (Ohm)	Frequency Range
	Coil	50	13.56MHz

Result: Compliant.

FCC§1.1310 & 2.1091- RF EXPOSURE EVALUATION

Applicable Standard

FCC §1.1310& §2.1091

Test Result

Compliance, please refer to the report: 2601T59274E-RF-00C.

RSS-102 § 6.6 –FIELD REFERENCE LEVEL EXPOSURE EXEMPTION LIMITS

Applicable Standard

According to RSS-102 Issue 6 §5.3.2

Test Result

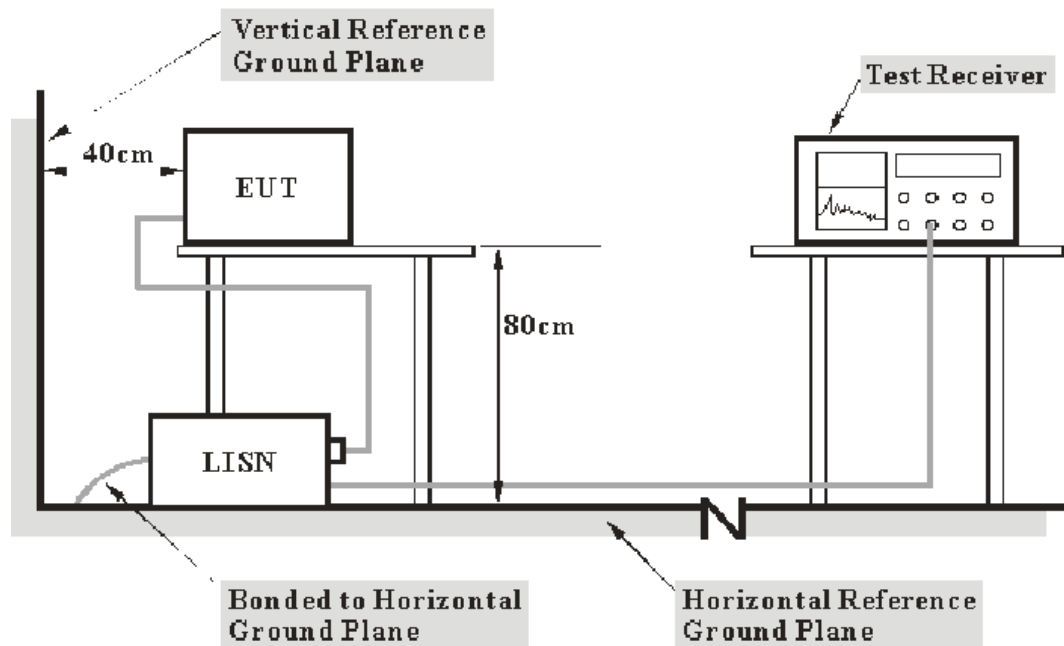
Compliance, please refer to the report: 2601T59274E-RF-08C.

FCC §15.207& RSS-GEN CLAUSE 8.8 - AC LINE CONDUCTED EMISSION

Applicable Standard

FCC§15.207 and RSS-Gen§8.8.

EUT Setup



- Note:**
1. Support units were connected to second LISN.
 2. Both of LISNs (AMN) 80 cm from EUT and at the least 80 cm from other units and other metal planes support units.

The setup of EUT is according with per ANSI C63.10-2020 measurement procedure. The specification used was with the FCC Part 15.207 and RSS-Gen limits..

The external I/O cables were draped along the test table and formed a bundle 30 to 40 cm long in the middle.

The spacing between the peripherals was 10 cm.

EMI Test Receiver Setup

The EMI test receiver was set to investigate the spectrum from 150 kHz to 30MHz.

During the conducted emission test, the EMI test receiver was set with the following configurations:

Frequency Range	RBW
150 kHz – 30MHz	9 kHz

Test Procedure

Maximizing procedure was performed on the six (6) highest emissions of the EUT.

All final data was recorded in the Quasi-peak and average detection mode.

Factor & Over Limit Calculation

The factor is calculated by adding LISN VDF (Voltage Division Factor) and Cable Loss. The basic equation is as follows:

$$\text{Factor} = \text{LISN VDF} + \text{Cable Loss}$$

The “**Over limit**” column of the following data tables indicates the degree of compliance with the applicable limit. For example, an Over limit of -7 dB means the emission is 7 dB below the limit. The equation for calculation is as follows:

$$\begin{aligned}\text{Over Limit} &= \text{Level} - \text{Limit} \\ \text{Level} &= \text{Read Level} + \text{Factor}\end{aligned}$$

Note: The term "cable loss" refers to the combination of a cable and a 10dB transient limiter (attenuator).

Test Data

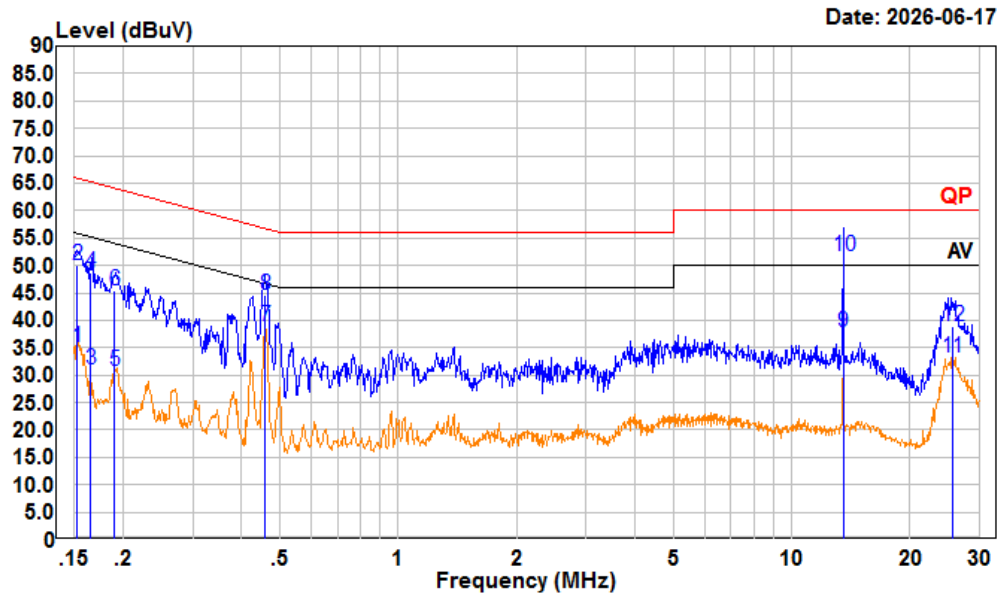
Environmental Conditions

Temperature:	25.1 °C
Relative Humidity:	70 %
ATM Pressure:	100.2 kPa

The testing was performed by Macy Shi on 2026-06-17.

Test mode: Transmitting

AC 120 V/60 Hz, Line



Condition: Line

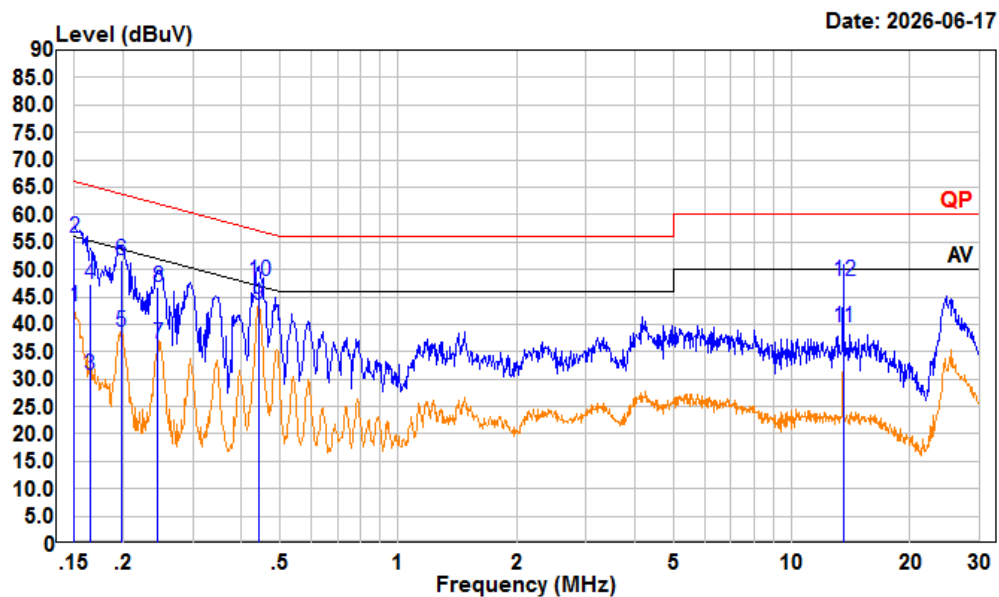
Project : 2601T59274E-RF

tester : Macy.shi Note:NFC Transmitting

Setting : RBW:9kHz

	Read		LISN	Cable	Limit	Over		
	Freq	Level	Level	Factor	Loss	Line	Limit	Remark
	MHz	dBuV	dBuV	dB	dB	dBuV	dB	
1	0.153	15.25	34.97	9.70	10.02	55.84	-20.87	Average
2	0.153	30.26	49.98	9.70	10.02	65.84	-15.86	QP
3	0.165	11.20	30.92	9.70	10.02	55.19	-24.27	Average
4	0.165	28.86	48.58	9.70	10.02	65.19	-16.61	QP
5	0.190	10.96	30.69	9.70	10.03	54.05	-23.36	Average
6	0.190	25.76	45.49	9.70	10.03	64.05	-18.56	QP
7	0.460	19.18	39.00	9.79	10.03	46.69	-7.69	Average
8	0.460	24.91	44.73	9.79	10.03	56.69	-11.96	QP
9	13.514	17.44	37.71	9.90	10.37	50.00	-12.29	Average
10	13.514	31.48	51.75	9.90	10.37	60.00	-8.25	QP
11	25.660	12.86	33.25	9.90	10.49	50.00	-16.75	Average
12	25.660	18.39	38.78	9.90	10.49	60.00	-21.22	QP

AC 120V/ 60 Hz, Neutral



Condition: neutral

Project : 2601T59274E-RF

tester : Macy.shi Note:NFC Transmitting

Setting : RBW:9kHz

	Freq	Read Level	Level	LISN Factor	Cable Loss	Limit Line	Over Limit	Remark
	MHz	dBuV	dBuV	dB	dB	dBuV	dB	
1	0.150	23.58	43.20	9.60	10.02	56.00	-12.80	Average
2	0.150	36.27	55.89	9.60	10.02	66.00	-10.11	QP
3	0.164	11.16	30.78	9.60	10.02	55.24	-24.46	Average
4	0.164	27.77	47.39	9.60	10.02	65.24	-17.85	QP
5	0.198	19.02	38.65	9.60	10.03	53.71	-15.06	Average
6	0.198	32.14	51.77	9.60	10.03	63.71	-11.94	QP
7	0.245	16.71	36.34	9.60	10.03	51.93	-15.59	Average
8	0.245	27.17	46.80	9.60	10.03	61.93	-15.13	QP
9	0.441	23.87	43.50	9.60	10.03	47.03	-3.53	Average
10	0.441	28.33	47.96	9.60	10.03	57.03	-9.07	QP
11	13.514	19.46	39.53	9.70	10.37	50.00	-10.47	Average
12	13.514	27.79	47.86	9.70	10.37	60.00	-12.14	QP

FCC§15.225, §15.205& §15.209& RSS-GEN§8.9 & RSS-210 ANNEX B.6(a) - RADIATED EMISSIONS TEST

Applicable Standard

As per FCC Part 15.225

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

(b) Within the bands 13.410–13.553 MHz and 13.567–13.710 MHz, the field strength of any emissions shall not exceed 334 microvolts/meter at 30 meters.

(c) Within the bands 13.110–13.410 MHz and 13.710–14.010 MHz the field strength of any emissions shall not exceed 106 microvolts/meter at 30 meters.

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

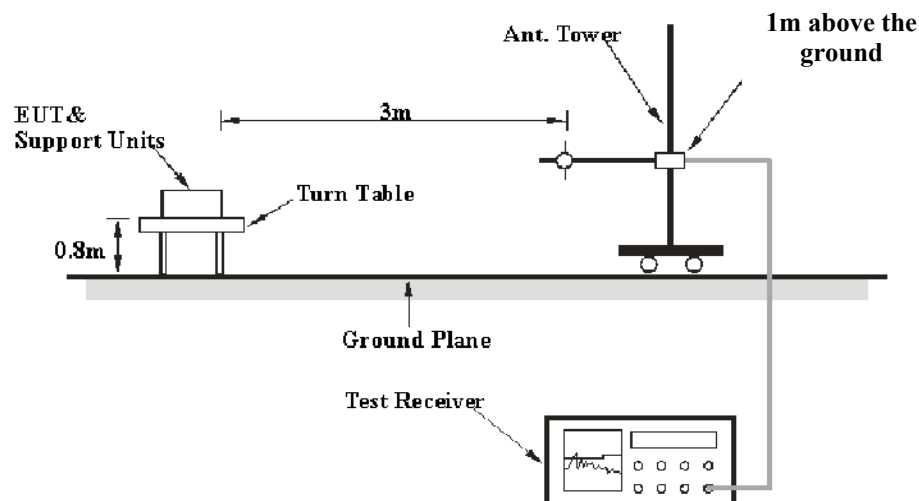
According to RSS-210 Annex B.6(a).

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

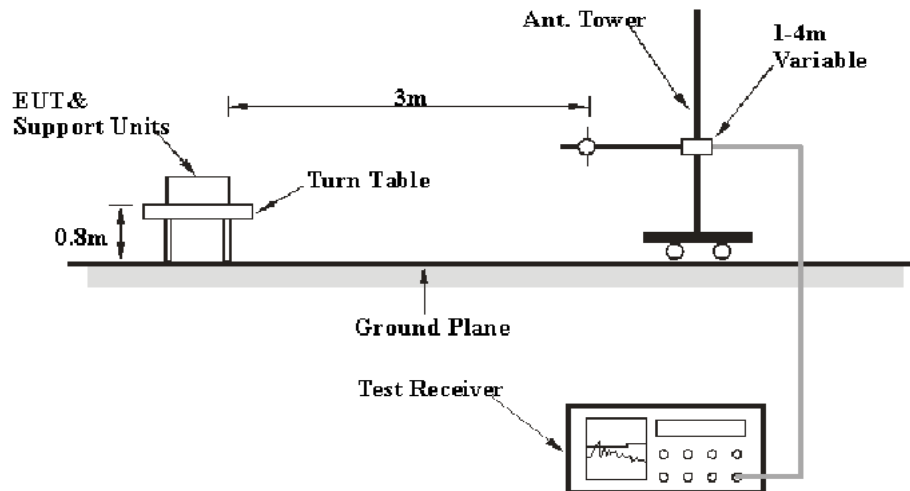
- 15.848 mV/m (84dB μ V/m) at 30 m, within the band 13.553-13.567 MHz;
- 334 μ V/m (50.47dB μ V/m) at 30 m, within the bands 13.410-13.553 MHz and 13.567-13.710 MHz;
- 106 μ V/m (40.51dB μ V/m) at 30 m, within the bands 13.110-13.410 MHz and 13.710-14.010 MHz;
- RSS-Gen general field strength limits for frequencies outside the band 13.110-14.010 MHz

EUT Setup

9 kHz-30MHz:



Note: Antenna is set up at 1m during test for below 30MHz.

30MHz-1GHz:

The radiated emission tests were performed in the 3-meter chamber a test site, using the setup accordance with the ANSI C63.10-2020. The specification used was the FCC Part 15.225, 15.209, 15.205, RSS-210 and RSS-Gen limits.

EMI Test Receiver Setup

The EUT emissions were investigated up to 1000 MHz.

During the radiated emission test, the EMI test Receiver was set with the following configurations:

Frequency Range	RBW	Video B/W	IF B/W	Measurement	Detector
9 kHz – 150 kHz	/	/	200 Hz	QP	QP
	300 Hz	1 kHz	/	PK	Peak
150 kHz – 30 MHz	/	/	9 kHz	QP	QP
	10 kHz	30 kHz	/	PK	Peak
30 MHz – 1000 MHz	/	/	120 kHz	QP	QP
	120 kHz	500 kHz	/	PK	Peak

All final data was recorded in Quasi-peak detection mode except for the frequency bands 9–90 kHz, 110–490 kHz, average detection modes for frequency bands 9–90 kHz and 110–490 kHz.

If the maximized peak measured value complies with under the QP/Average limit more than 6dB, then it is unnecessary to perform QP/Average measurement.

Factor & Over Limit/Margin Calculation

The Level is calculated by adding the Antenna Factor and Cable Loss, and subtracting the Amplifier Gain from the Meter Reading. The basic equation is as follows:

$$\begin{aligned}\text{Factor} &= \text{Antenna Factor} + \text{Cable Loss} - \text{Amplifier Gain} \\ \text{Level} &= \text{Read Level} + \text{Factor}\end{aligned}$$

The “**Over Limit**” column of the following data tables indicates the degree of compliance with the applicable limit. For example, an Over Limit/margin of -7dB means the emission is 7dB below the limit. The equation for calculation is as follows:

$$\text{Over Limit} = \text{Level} - \text{Limit}$$

Test Data

Environmental Conditions

Temperature:	23.4 °C
Relative Humidity:	52 %
ATM Pressure:	100.1 kPa

The testing was performed by Anson Su on 2026-08-01.

Test mode: Transmitting

Note:

1. For the spurious emission below 30MHz, the unit of final result on the test plots are dBμV/m, so the limit should be added by 51,5 dB from dBμA/m to dBμV/m.

2. When the result of Peak below the limit of QP more than 6dB, just the peak value was record.

3. Pre-scan in the X, Y and Z axes of orientation, the worst case of z-axis orientation were recorded.

1) Spurious Emissions (9 kHz~30 MHz):

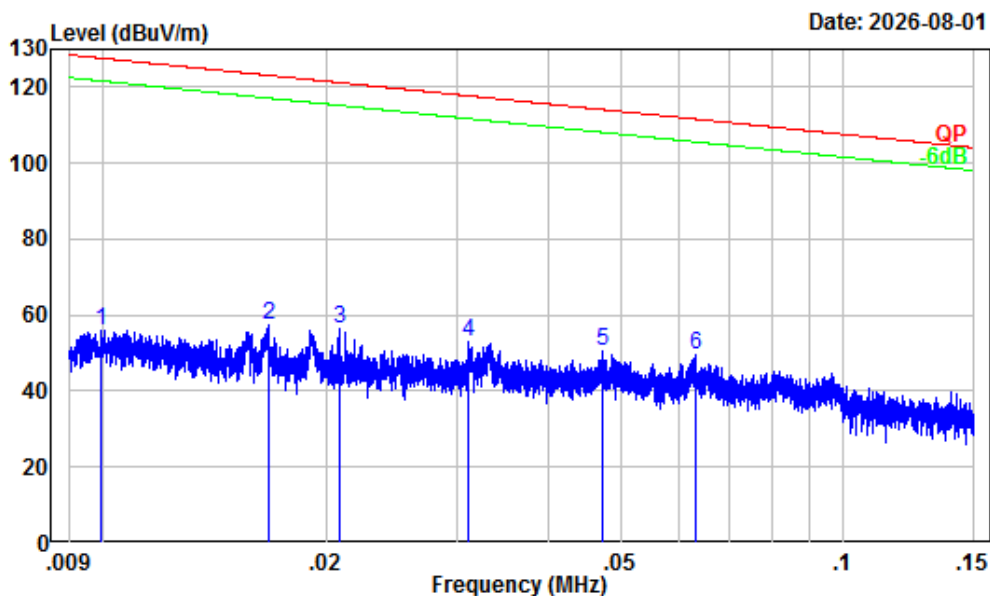
Part 15 Section 15.31(f)(2) and RSS-GEN Section 6.5,

Limit @ 3m=Limit @ 300m-40*log(3(m)/300(m))

Limit @ 3m=Limit @ 30m-40*log(3(m)/30(m))

Ground-parallel

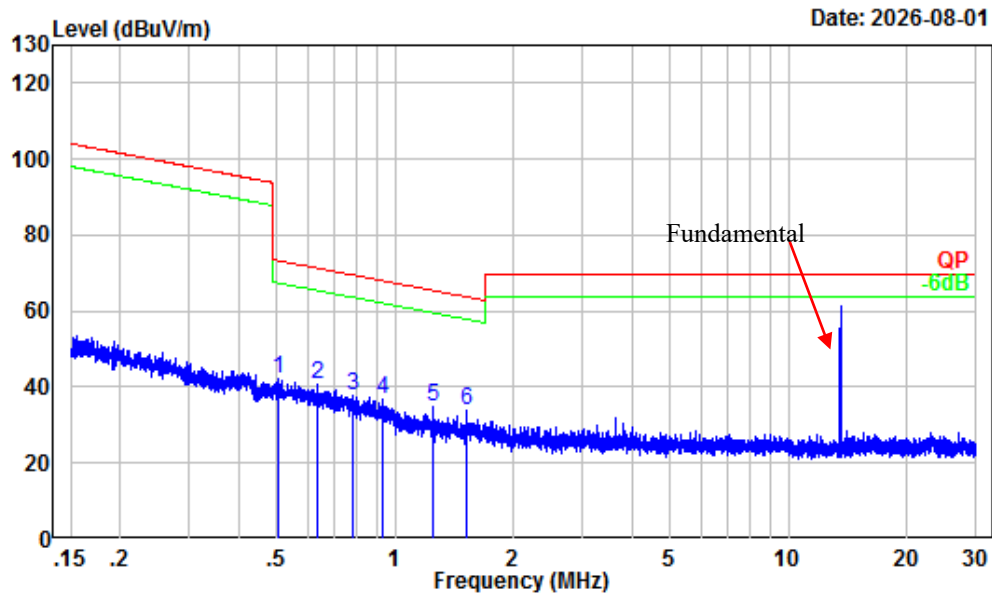
9 kHz~150 kHz



Site : Chamber A
Condition : 3m
Project Number : 2601T59274E-RF
Test Mode : NFC Transmitting
Note : Ground-parallel
Detector: Peak RBW/VBW: 0.3/1kHz
Tester : Anson Su

	Freq	Factor	Read		Limit	Over	Remark
			Level	Level	Line	Limit	
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	0.010	32.31	23.75	56.06	127.63	-71.57	Peak
2	0.017	31.02	26.19	57.21	123.13	-65.92	Peak
3	0.021	30.23	25.97	56.20	121.21	-65.01	Peak
4	0.031	28.38	24.43	52.81	117.73	-64.92	Peak
5	0.047	26.70	23.73	50.43	114.13	-63.70	Peak
6	0.063	25.10	24.50	49.60	111.61	-62.01	Peak

150 kHz~30 MHz

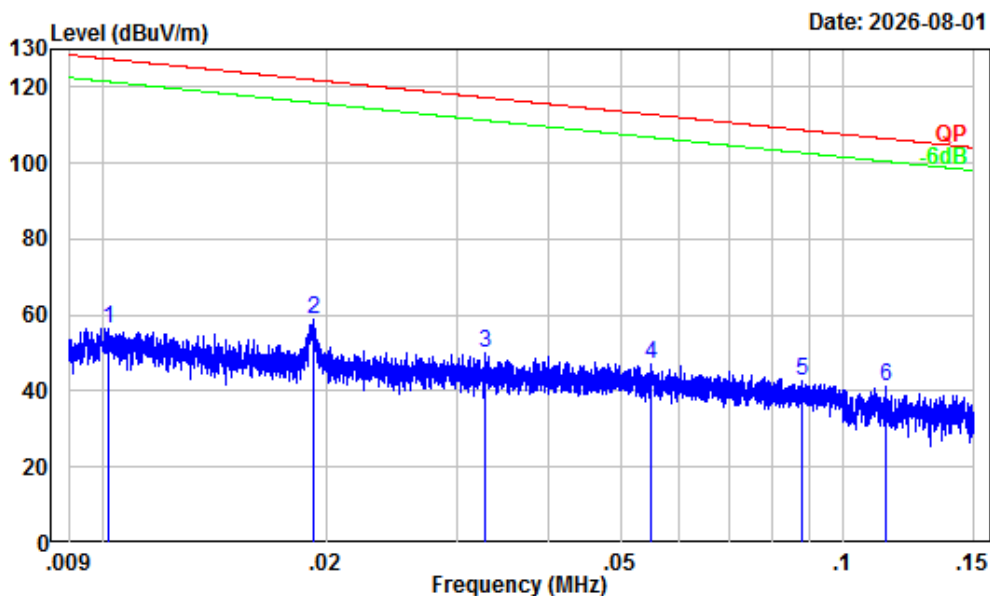


Site : Chamber A
Condition : 3m
Project Number : 2601T59274E-RF
Test Mode : NFC Transmitting
Note : Ground-parallel
Detector: Peak RBW/VBW: 10/30kHz
Tester : Anson Su

	Freq	Factor	Read Level	Limit Level	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB
1	0.504	6.35	35.61	41.96	73.55	-31.59 Peak
2	0.634	4.75	36.09	40.84	71.52	-30.68 Peak
3	0.782	2.92	34.93	37.85	69.65	-31.80 Peak
4	0.928	1.74	34.89	36.63	68.13	-31.50 Peak
5	1.252	0.49	34.20	34.69	65.48	-30.79 Peak
6	1.519	-0.25	34.34	34.09	63.76	-29.67 Peak

Perpendicular

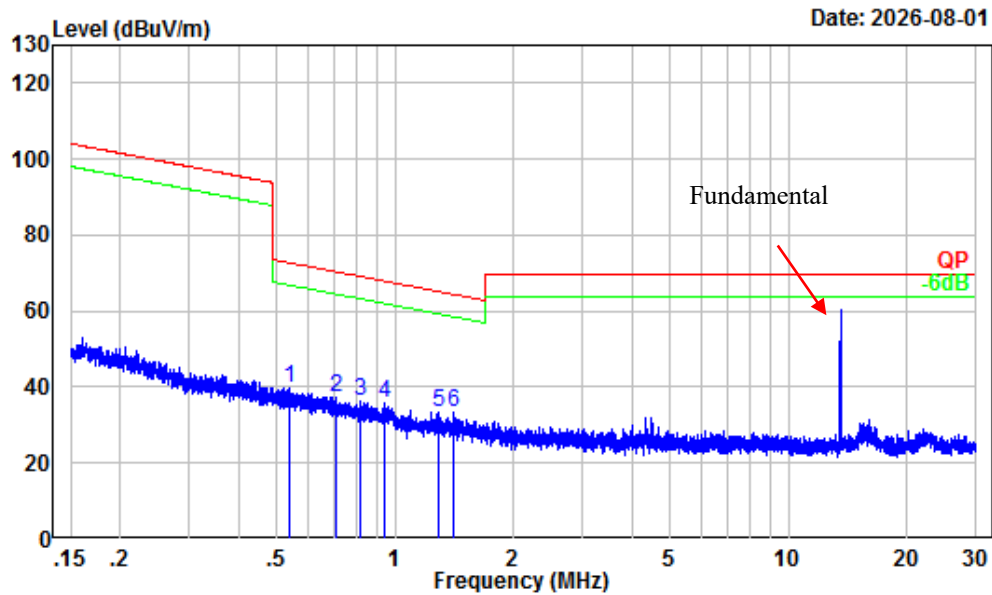
9 kHz~150 kHz



Site : Chamber A
Condition : 3m
Project Number : 2601T59274E-RF
Test Mode : NFC Transmitting
Note : perpendicular
Detector: Peak RBW/VBW: 0.3/1kHz
Tester : Anson Su

	Freq	Factor	Read		Limit	Over	Remark
			Level	Level	Line	Limit	
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	0.010	32.27	24.36	56.63	127.46	-70.83	Peak
2	0.019	30.55	28.25	58.80	121.93	-63.13	Peak
3	0.033	28.20	21.78	49.98	117.28	-67.30	Peak
4	0.055	25.90	20.96	46.86	112.79	-65.93	Peak
5	0.088	22.85	19.86	42.71	108.73	-66.02	Peak
6	0.114	21.18	20.19	41.37	106.47	-65.10	Peak

150 kHz~30 MHz

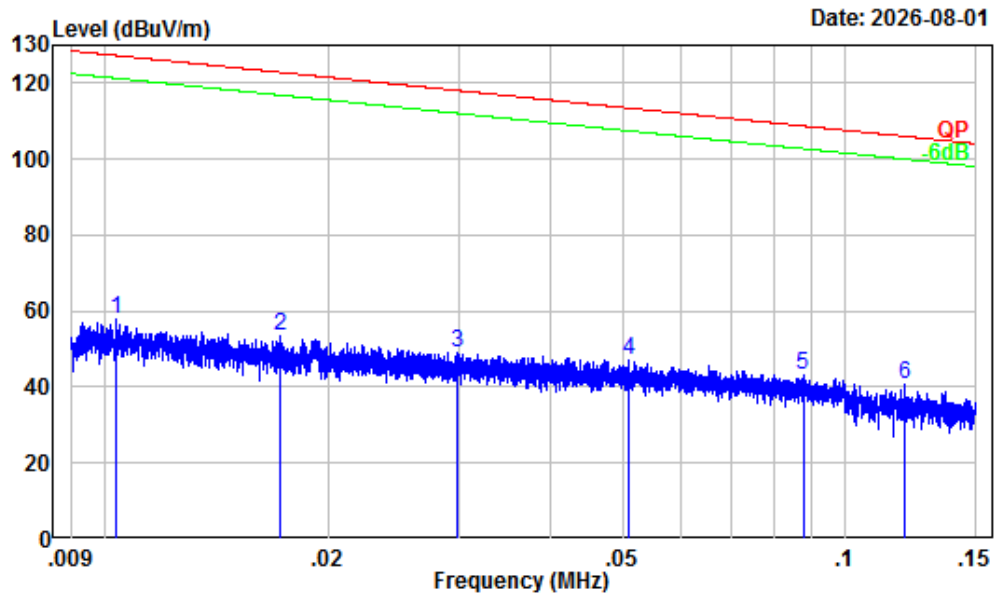


Site : Chamber A
Condition : 3m
Project Number : 2601T59274E-RF
Test Mode : NFC Transmitting
Note : perpendicular
Detector: Peak RBW/VBW: 10/30kHz
Tester : Anson Su

	Freq	Factor	Read Level	Limit Level	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB
1	0.537	5.94	34.04	39.98	72.99	-33.01 Peak
2	0.706	3.86	33.50	37.36	70.56	-33.20 Peak
3	0.817	2.57	33.53	36.10	69.26	-33.16 Peak
4	0.940	1.65	34.30	35.95	68.02	-32.07 Peak
5	1.287	0.40	33.11	33.51	65.23	-31.72 Peak
6	1.409	0.06	33.40	33.46	64.43	-30.97 Peak

Parallel

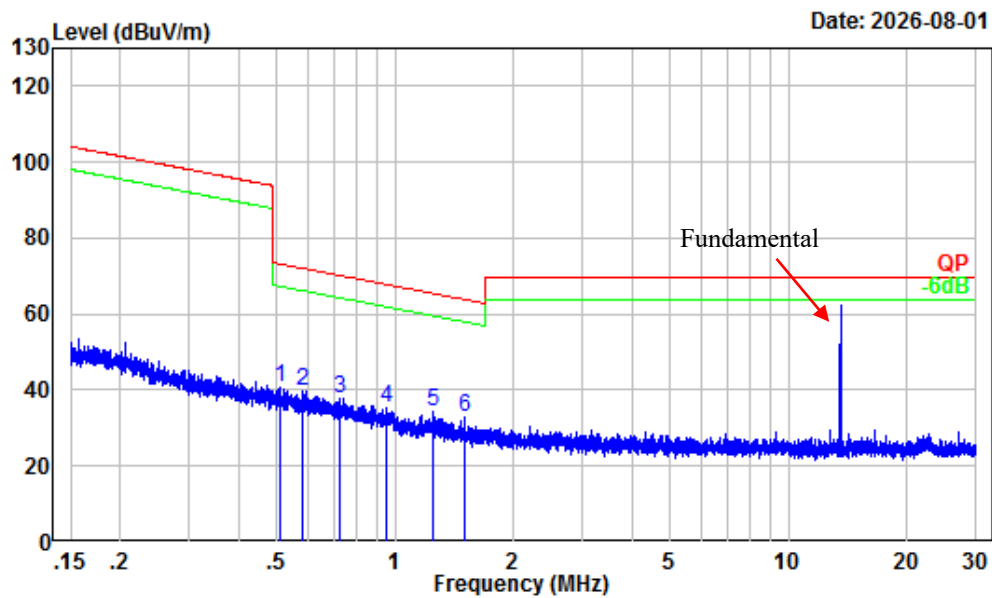
9 kHz~150 kHz



Site : Chamber A
Condition : 3m
Project Number : 2601T59274E-RF
Test Mode : NFC Transmitting
Note : Paralle
Detector: Peak RBW/VBW: 0.3/1kHz
Tester : Anson Su

	Freq	Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	0.010	32.23	25.80	58.03	127.30	-69.27	Peak
2	0.017	30.93	22.31	53.24	122.89	-69.65	Peak
3	0.030	28.51	20.67	49.18	118.07	-68.89	Peak
4	0.051	26.30	20.76	47.06	113.45	-66.39	Peak
5	0.088	22.86	20.36	43.22	108.75	-65.53	Peak
6	0.120	20.79	19.95	40.74	105.99	-65.25	Peak

150 kHz~30 MHz

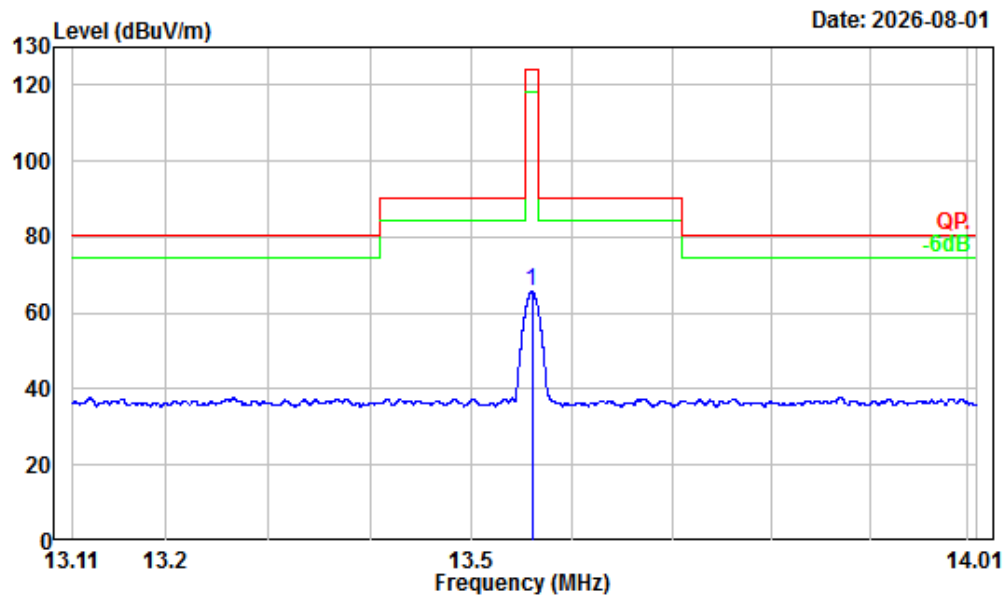


Site : Chamber A
Condition : 3m
Project Number : 2601T59274E-RF
Test Mode : NFC Transmitting
Note : Paralle
Detector: Peak RBW/VBW: 10/30kHz
Tester : Anson Su

	Freq	Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	0.513	6.24	34.51	40.75	73.40	-32.65	Peak
2	0.580	5.41	34.41	39.82	72.30	-32.48	Peak
3	0.727	3.59	34.19	37.78	70.30	-32.52	Peak
4	0.954	1.54	33.63	35.17	67.89	-32.72	Peak
5	1.247	0.51	34.05	34.56	65.51	-30.95	Peak
6	1.510	-0.23	32.99	32.76	63.82	-31.06	Peak

2) Emission Mask & Fundamental:

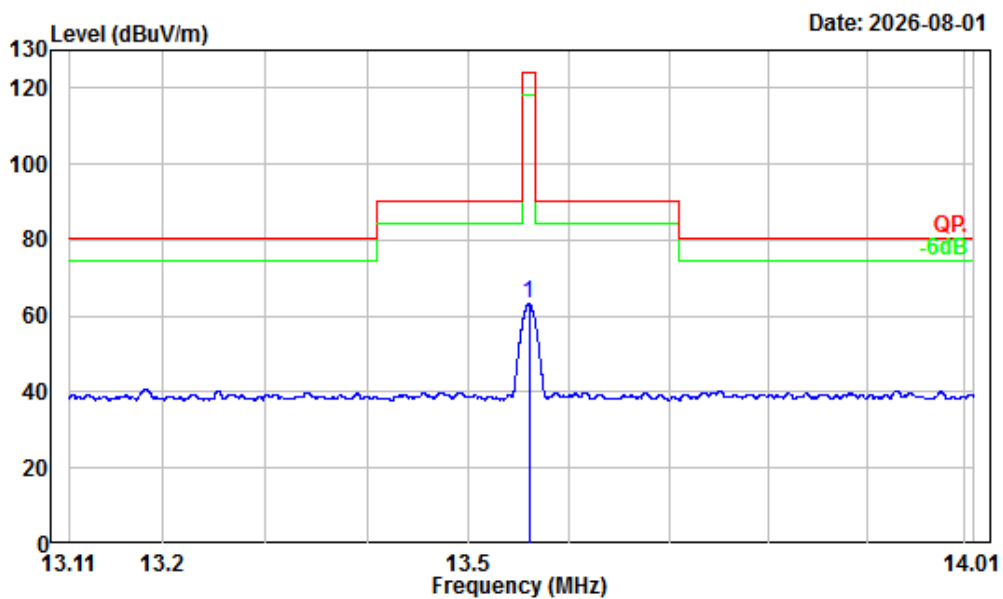
Ground-parallel



Site : Chamber A
Condition : 3m
Project Number : 2601T59274E-RF
Test Mode : NFC Transmitting
Note : Ground-parallel
Detector: Peak RBW/VBW: 10/30kHz
Tester : Anson Su

Freq Factor		Read Level	Limit Level	Limit Line	Over Limit	Remark
MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	13.560	-2.72	68.23	65.51	124.00	-58.49 Peak

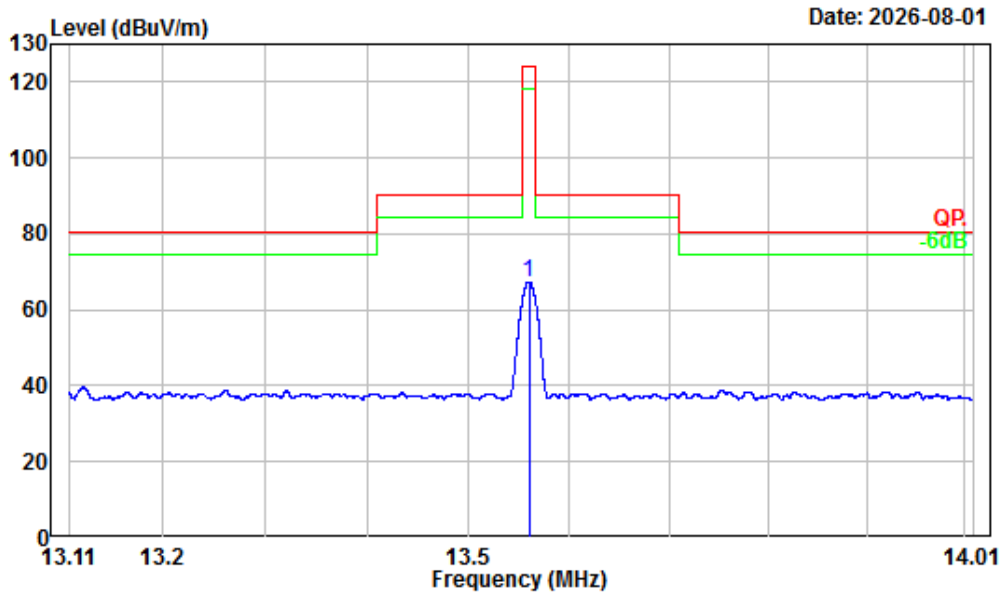
Perpendicular



Site : Chamber A
Condition : 3m
Project Number : 2601T59274E-RF
Test Mode : NFC Transmitting
Note : perpendicular
Detector: Peak RBW/VBW: 10/30kHz
Tester : Anson Su

	Freq Factor		Read Level		Limit	Over	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	13.560	-2.72	65.77	63.05	124.00	-60.95	Peak

Parallel

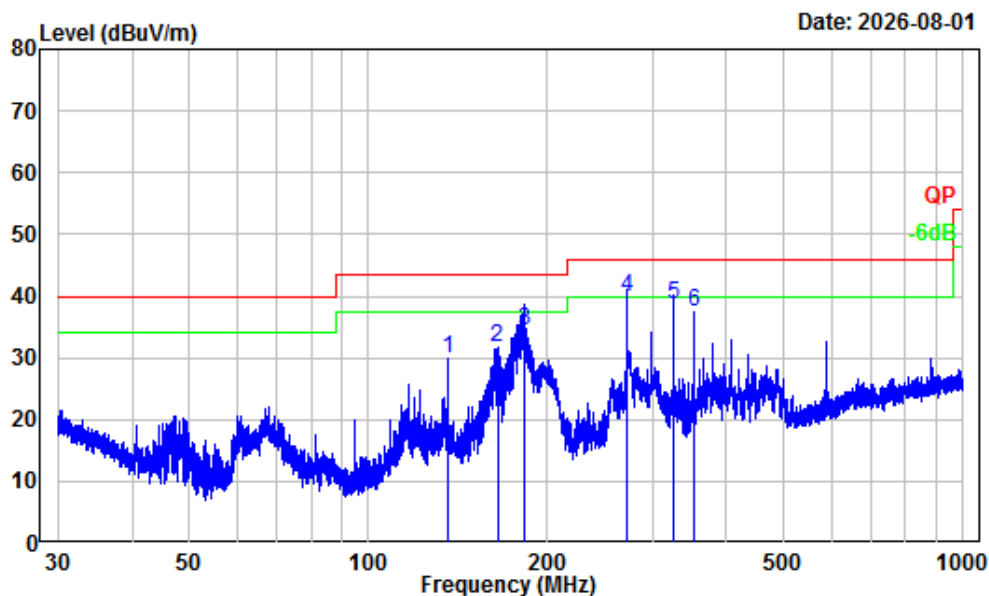


Site : Chamber A
 Condition : 3m
 Project Number : 2601T59274E-RF
 Test Mode : NFC Transmitting
 Note : Paralle
 Detector: Peak RBW/VBW: 10/30kHz
 Tester : Anson Su

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	13.560	-2.72	70.15	67.43	124.00	-56.57	Peak

3) Spurious Emissions (30 MHz~1GHz):

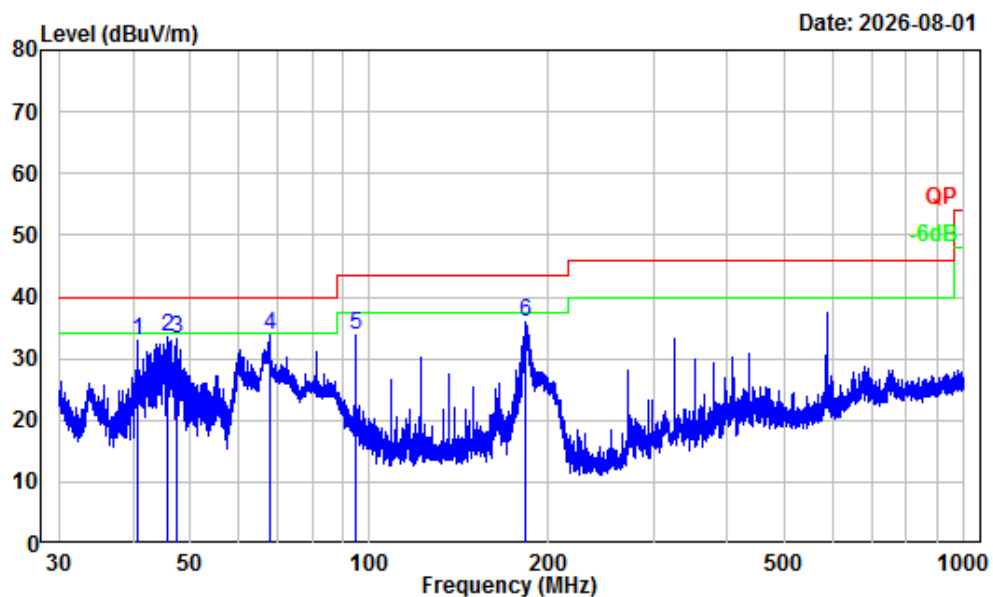
Horizontal



Site : Chamber A
Condition : 3m Horizontal
Project Number : 2601T59274E-RF
Test Mode : NFC Transmitting
Detector: Peak RBW/VBW: 120/500kHz
Detector: QP RBW : 120kHz
Tester : Anson Su

	Freq Factor		Read	Limit	Over	Remark
	MHz	dB/m	Level	Line	Limit	
			dBuV	dBuV/m	dBuV/m	dB
1	135.92	-11.56	41.60	30.04	43.50	-13.46 Peak
2	164.69	-12.79	44.55	31.76	43.50	-11.74 Peak
3	182.56	-13.63	48.01	34.38	43.50	-9.12 QP
4	271.21	-11.66	51.40	39.74	46.00	-6.26 QP
5	325.45	-10.57	49.20	38.63	46.00	-7.37 QP
6	352.63	-10.00	47.43	37.43	46.00	-8.57 Peak

Vertical



Site : Chamber A
Condition : 3m Vertical
Project Number : 2601T59274E-RF
Test Mode : NFC Transmitting
Detector: Peak RBW/VBW: 120/500kHz
Tester : Anson Su

	Freq Factor		Read Level	Limit Level	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB
1	40.67	-12.64	45.49	32.85	40.00	-7.15 Peak
2	45.69	-16.10	49.63	33.53	40.00	-6.47 Peak
3	47.51	-16.99	50.23	33.24	40.00	-6.76 Peak
4	67.79	-17.77	51.62	33.85	40.00	-6.15 Peak
5	94.93	-17.22	51.14	33.92	43.50	-9.58 Peak
6	183.12	-13.62	49.59	35.97	43.50	-7.53 Peak

FCC§15.225(e) & RSS-210 §B.6 (b) - FREQUENCY STABILITY

Applicable Standard

According to FCC§15.225(e), 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.

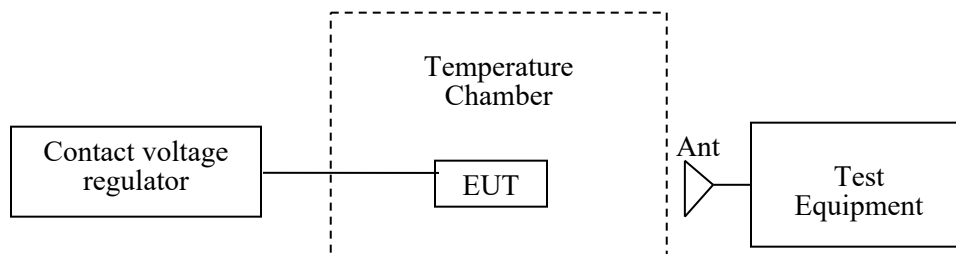
According to RSS-210, Issue 10 §B.6(b), The carrier frequency stability shall not exceed ± 100 ppm.

Test Procedure

Frequency Stability vs. Temperature: The equipment under test was connected to an external AC power supply and inductive antenna was connected to a Spectrum Analyzer. The EUT was placed inside the temperature chamber.

After the temperature stabilized for approximately 20 minutes, the frequency output was recorded from the Spectrum Analyzer.

Frequency Stability vs. Voltage: An external AC power supply Source. The voltage was set to 115% of the nominal value and was then decreased until the transmitter light no longer illuminated; i.e., the end point. The output frequency was recorded for each voltage.



Test Data

Environmental Conditions

Temperature:	23.4 °C
Relative Humidity:	52 %
ATM Pressure:	100.1 kPa

The testing was performed by Anson Su on 2026-08-01.

Test Mode: Transmitting

Test Result: Pass

Note: Only the worst case adapter1 were recorded in the report.

Test Item	Temperature (°C)	Voltage (V _{AC})	Measured frequency (MHz)	Frequency Error (%)	Limit (%)
Frequency Stability vs. Temperature	-20	120	13.56121	0.0089	±0.01
	-10	120	13.56106	0.0078	±0.01
	0	120	13.56102	0.0075	±0.01
	10	120	13.56122	0.0090	±0.01
	20	120	13.56119	0.0088	±0.01
	30	120	13.56105	0.0077	±0.01
	40	120	13.56113	0.0083	±0.01
	50	120	13.56125	0.0092	±0.01
Frequency Stability vs. Voltage	20	102	13.56119	0.0088	±0.01
	20	138	13.56104	0.0077	±0.01

Note: the extreme voltage was declared by the applicant.

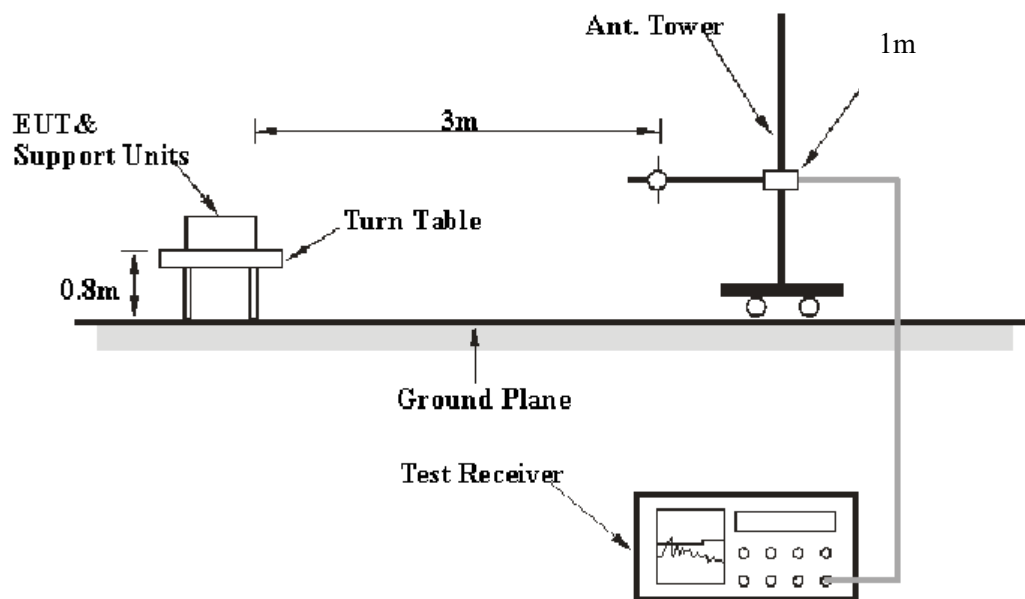
FCC§15.215(c) - 20dB EMISSION BANDWIDTH

Requirement

Per 15.215 (c) Intentional radiators operating under the alternative provisions to the general emission limits, as contained in §§ 15.217 through 15.257 and in Subpart E of this part, must be designed to ensure that the 20 dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equipment operates, is contained within the frequency band designated in the rule section under which the equipment is operated. The requirement to contain the designated bandwidth of the emission within the specified frequency band includes the effects from frequency sweeping, frequency hopping and other modulation techniques that may be employed as well as the frequency stability of the transmitter over expected variations in temperature and supply voltage. If a frequency stability is not specified in the regulations, it is recommended that the fundamental emission be kept within at least the central 80% of the permitted band in order to minimize the possibility of out-of-band operation.

Test Procedure

Measure the frequency difference of two frequencies that were attenuated 20 dB from the reference level. Record the frequency difference as the emission bandwidth.



Test Data

Environmental Conditions

Temperature:	23.4 °C
Relative Humidity:	52 %
ATM Pressure:	100.1 kPa

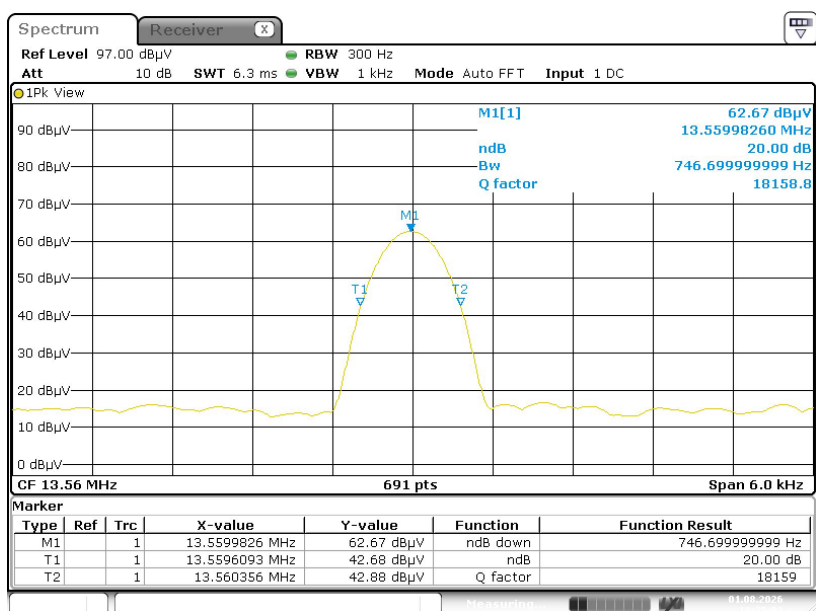
The testing was performed by Anson Su on 2026-08-01.

Test Mode: Transmitting

Test Result: Pass

Test Frequency (MHz)	20dB Bandwidth (kHz)
13.56	0.747

20 dB Emission Bandwidth



ProjectNo.:2601T59274E-RF Tester:Anson Su
Date: 1.AUG.2026 13:25:02

RSS-GEN CLAUSE 6.7 - 99% OCCUPIED BANDWIDTH

Applicable Standard

According to RSS-Gen §6.7

The occupied bandwidth or the “99% emission bandwidth” is defined as the frequency range between two points, one above and the other below the carrier frequency, within which 99% of the total transmitted power of the fundamental transmitted emission is contained. The occupied bandwidth shall be reported for all equipment in addition to the specified bandwidth required in the applicable RSSs.

In some cases, the “x dB bandwidth” is required, which is defined as the frequency range between two points, one at the lowest frequency below and one at the highest frequency above the carrier frequency, at which the maximum power level of the transmitted emission is attenuated x dB below the maximum in-band power level of the modulated signal, where the two points are on the outskirts of the in-band emission.

The following conditions shall be observed for measuring the occupied bandwidth and x dB bandwidth: The Microphone shall be operated at its maximum carrier power measured under normal test conditions. The span of the spectrum analyzer shall be set large enough to capture all products of the modulation process, including the emission skirts, around the carrier frequency, but small enough to avoid having other emissions (e.g. on adjacent channels) within the span.

The detector of the spectrum analyzer shall be set to “Sample”. However, a peak, or peak hold, may be used in place of the sampling detector since this usually produces a wider bandwidth than the actual bandwidth (worst-case measurement). Use of a peak hold (or “Max Hold”) may be necessary to determine the occupied / x dB bandwidth if the device is not transmitting continuously.

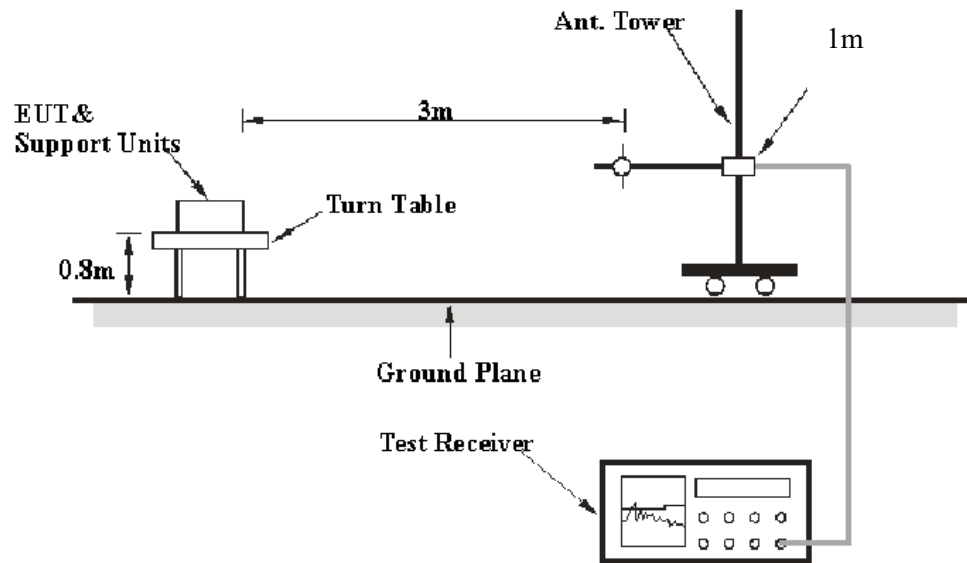
The resolution bandwidth (RBW) shall be in the range of 1% to 5% of the actual occupied / x dB bandwidth and the video bandwidth (VBW) shall not be smaller than three times the RBW value. Video averaging is not permitted.

Note: It may be necessary to repeat the measurement a few times until the RBW and VBW are in compliance with the above requirement.

For the 99% emission bandwidth, the trace data points are recovered and directly summed in linear power level terms. The recovered amplitude data points, beginning at the lowest frequency, are placed in a running sum until 0.5% of the total is reached, and that frequency recorded. The process is repeated for the highest frequency data points (starting at the highest frequency, at the right side of the span, and going down in frequency). This frequency is then recorded. The difference between the two recorded frequencies is the occupied bandwidth (or the 99% emission bandwidth)

Test Procedure

1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
2. Position the EUT without connection to measurement instrument. Turn on the EUT and connect it to measurement instrument. Then set it to any one convenient frequency within its operating range. Set a reference level on the measuring instrument equal to the highest peak value.
3. Use 99% OBW test function to test the 99% OBW bandwidth.
4. Repeat above procedures until all frequencies measured were complete.



Test Data

Environmental Conditions

Temperature:	23.4 °C
Relative Humidity:	52 %
ATM Pressure:	100.1 kPa

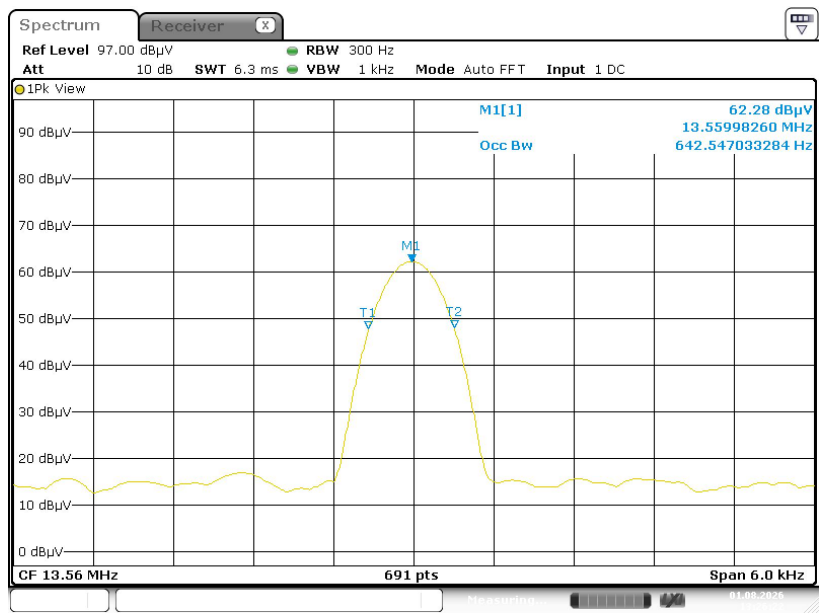
The testing was performed by Anson Su on 2026-08-01.

Test Mode: Transmitting

Test Result: Pass

Test Frequency (MHz)	OBW (kHz)
13.56	0.643

Occupied Bandwidth



ProjectNo.:2601T59274E-RF Tester:Anson Su
Date: 1.AUG.2026 13:26:22

EUT PHOTOGRAPHS

Please refer to the attachment 2601T59274E-RF-EXP External photo and 2601T59274E-RF-INP Internal photo.

TEST SETUP PHOTOGRAPHS

Please refer to the attachment 2601T59274E-RF-TSPF Test Setup photo.

******* END OF REPORT *******