FCC PART 15.247
TEST REPORT

For

Shanghai Norwii Technology Co., Ltd.

2F, Building 3, No.277, Jinfeng Road, Pudong New Area, Shanghai 201201, China

FCC ID: 2AXGRVA4

Report Type:	**Product Name:**
Original Report	Wireless Microphone

Report Number:	RSHA260130001-00B
Report Date:	2026-07-31
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Note: This test report is prepared for the customer shown above and for the device described herein. It may not be duplicated or used in part without prior written consent from Bay Area Compliance Laboratories Corp. (Kunshan). This report must not be used by the customer to claim product certification, approval, or endorsement by NVLAP, or any agency of the U.S.Government.

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REPORT REVISION HISTORY

Number of Revisions	Report No.	Version	Issue Date	Description
0	RSHA260130001-00B	R1V1	2026-07-31	Initial Release

GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

Applicant:	Shanghai Norwii Technology Co., Ltd.
Product Name:	Wireless Microphone
Tested Model:	S128
Power Supply:	DC 5V from Type-C port & DC 3.7V from battery
Maximum Output Power:	-0.54 dBm
RF Function:	2.4G SRD
Operating Band/Frequency:	2404-2478 MHz
Channel Number:	34
Minimum Channel Separation:	2 MHz
Modulation Type:	GFSK
★Maximum Antenna Gain:	-0.58 dBi

All measurement and tested data in this report was gathered from production sample serial number: RSHA260130001-1 (Assigned by BACL (Kunshan). The EUT supplied by the applicant was received on 2026-01-30.)

Objective

This test report is prepared for *Shanghai Norwii Technology Co., Ltd.* in accordance with Part 2-Subpart J, Part 15-Subparts A and C of the Federal Communication Commissions rules.

The tests were performed in order to determine Compliance with FCC Part 15, Subpart C, section 15.203, 15.205, 15.207, 15.209 and 15.247 rules.

Test Methodology

All measurements contained in this report were conducted with ANSI C63.10-2020, American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices and 558074 D01 15.247 Meas Guidance v05r02.

Measurement Uncertainty

Item		Uncertainty
AC Power Lines Conducted Emissions		3.19dB
RF conducted test with spectrum		0.9dB
RF Output Power with Power meter		0.5dB
Radiated emission	9 kHz~150 kHz	3.8dB
	150 kHz~30 MHz	3.4dB
	30MHz~1GHz	6.11dB
	1GHz~6GHz	4.45dB
	6GHz~18GHz	5.23dB
	18GHz~40GHz	5.65dB
Occupied Bandwidth		0.5kHz
Temperature		1.0℃
Humidity		6%

Test Facility

The Test site used by Bay Area Compliance Laboratories Corp. (Kunshan) to collect test data is located on the No.248 Chenghu Road, Kunshan, Jiangsu Province, China.

Bay Area Compliance Laboratories Corp. (Kunshan) is accredited in accordance with ISO/IEC 17025:2017 by NVLAP (Lab code: 600338-0), and the lab has been recognized as the FCC accredited lab under the KDB 974614 D01, the FCC Designation No.: CN5055.

SYSTEM TEST CONFIGURATION

Description of Test Configuration

Channel list:

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
1	2404	13	2432	25	2458
2	2406	14	2434	26	2460
3	2408	15	2436	27	2462
4	2410	16	2438	28	2464
5	2412	17	2440	29	2466
6	2414	18	2442	30	2468
7	2416	19	2444	31	2470
8	2418	20	2446	32	2474
9	2420	21	2450	33	2476
10	2422	22	2452	34	2478
11	2428	23	2454	/	/
12	2430	24	2456	/	/

EUT was tested with Channel 1, 17 and 34.

EUT Exercise Software

RF Test Tool: FCC_Assist_1.0.4

★Power level: 10

Note: The power level was declared by the applicant.

Special Accessories

No special accessory.

Equipment Modifications

No modification was made to the EUT tested.

Support Equipment List and Details

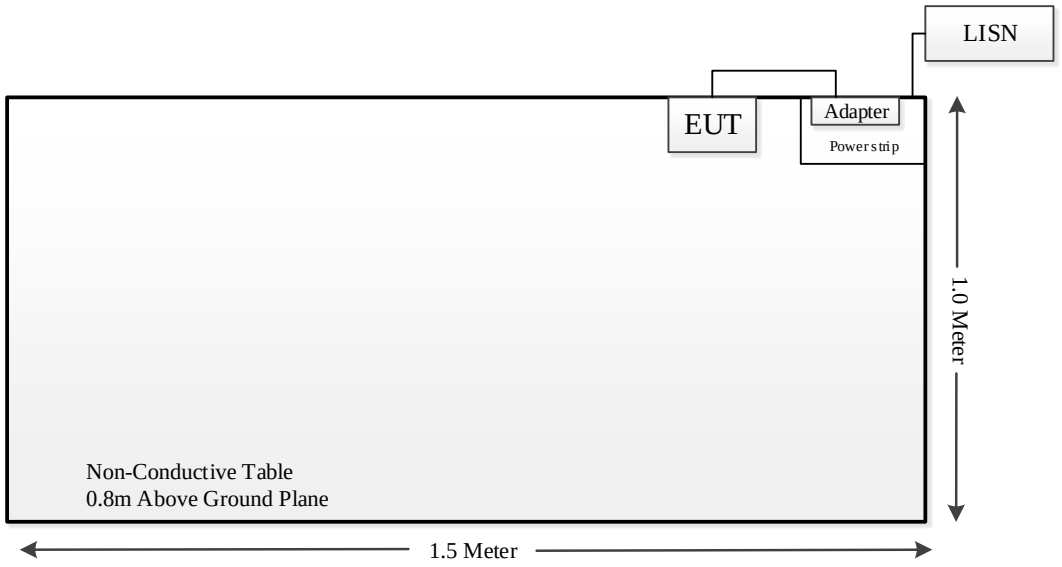
Manufacturer	Description	Model	Serial Number
Power on Tools Co.,Ltd	Adapter	DA-00052000UL001	/
/	Power strip	/	/
Lenovo	Notebook	Y700P	PF2B7PL5

External I/O Cable

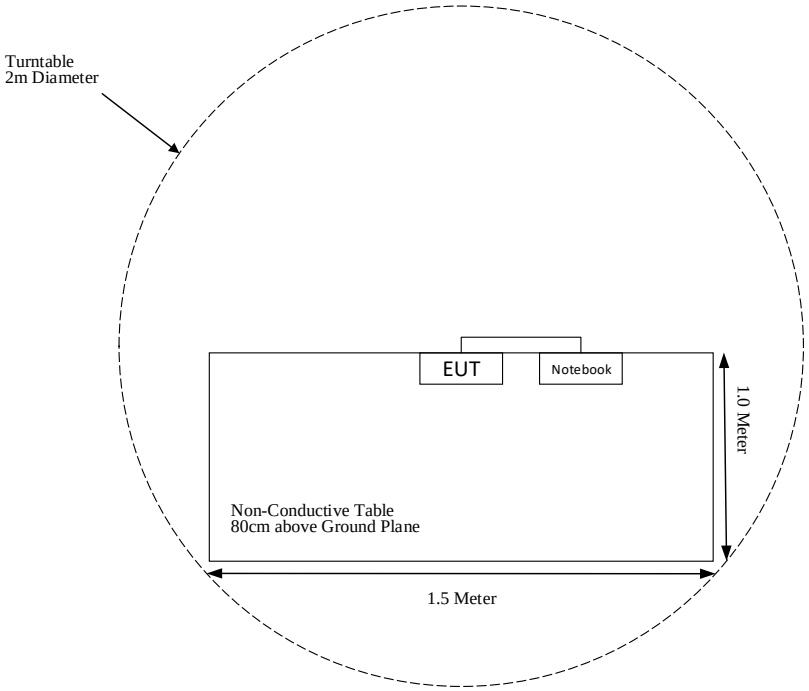
Cable Description	Length (m)	From Port	To Port
Power Cable 1	1.0	LISN	Power strip
Power Cable 2	1.0	Adapter	EUT
USB Cable	1.0	EUT	Notebook

Block Diagram of Test Setup

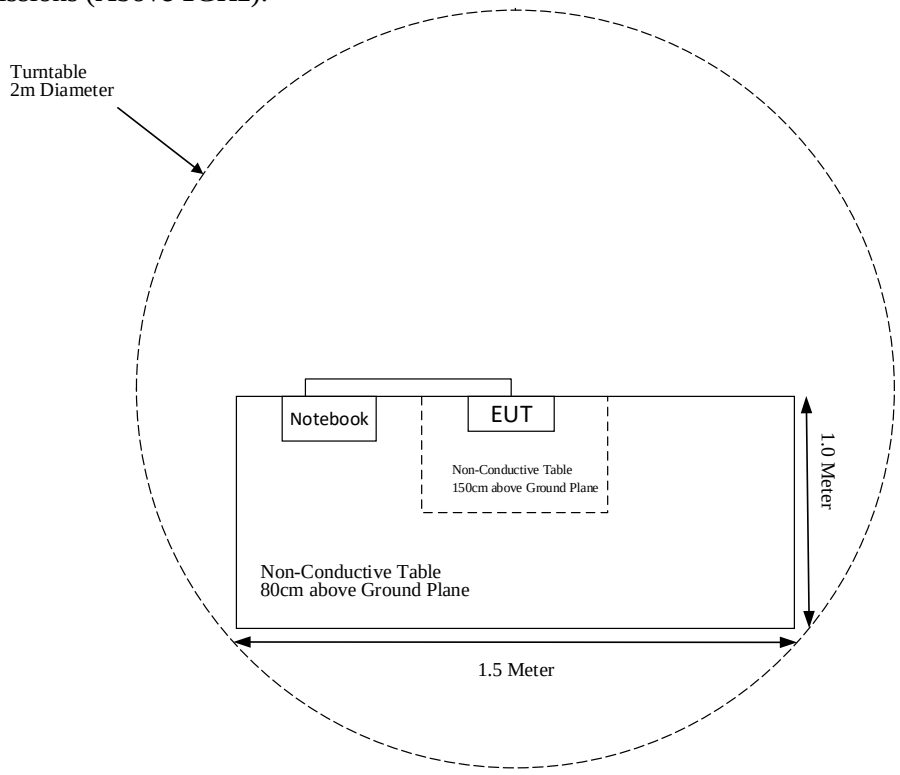
For Conducted Emissions:



For Radiated Emissions (Below 1GHz):



For Radiated Emissions (Above 1GHz):



SUMMARY OF TEST RESULTS

FCC Rules	Description of Test	Result
§1.1307(b) & §2.1093	RF EXPOSURE	Compliant
§15.203	Antenna Requirement	Compliant
§15.207(a)	AC Line Conducted Emissions	Compliant
§15.205, §15.209 & §15.247(d)	Radiated Emissions & Restricted Bands Emissions	Compliant
§15.247(a)(1)	20 dB Emission Bandwidth	Compliant
§15.247(a)(1)	Channel Separation Test	Compliant
§15.247(a)(1)(iii)	Time of Occupancy (Dwell Time)	Compliant
§15.247(a)(1)(iii)	Quantity of hopping channel Test	Compliant
§15.247(b)(1)	Peak Output Power Measurement	Compliant
§15.247(d)	Band edges	Compliant
§15.247(d)	Conducted Spurious Emission	Compliant

TEST EQUIPMENT LIST

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Radiated Emission Test (Chamber #1)					
Rohde & Schwarz	EMI Test Receiver	ESCI	100195	2026-03-13	2027-03-12
Rohde & Schwarz	EMI Test Receiver	ESCI	100195	2025-04-09	2026-04-08
Sunol Sciences	Hybrid Antenna	JB3	A090314-2	2024-10-29	2027-10-28
BACL	Active Loop Antenna	1313-1A	4041511	2025-08-10	2028-08-09
Narda	6 dB Attenuator	771-6	10690812-2-1	2024-10-29	2027-10-28
Sonoma Instrument	Pre-amplifier	310N	171205	2026-03-13	2027-03-12
Sonoma Instrument	Pre-amplifier	310N	171205	2025-04-09	2026-04-08
Rohde & Schwarz	Auto Test Software	EMC32	100361	N/A	N/A
MICRO-COAX	Coaxial Cable	Cable-8	008	2026-03-13	2027-03-12
MICRO-COAX	Coaxial Cable	Cable-8	008	2025-04-09	2026-04-08
MICRO-COAX	Coaxial Cable	Cable-9	009	2026-03-13	2027-03-12
MICRO-COAX	Coaxial Cable	Cable-9	009	2025-04-09	2026-04-08
MICRO-COAX	Coaxial Cable	Cable-10	010	2026-03-13	2027-03-12
MICRO-COAX	Coaxial Cable	Cable-10	010	2025-04-09	2026-04-08
Radiated Emission Test (Chamber #2)					
Rohde & Schwarz	EMI Test Receiver	ESU40	100207/040	2026-03-16	2027-03-15
EMCO	Horn Antenna	3115	9207-3900	2024-11-03	2027-11-02
ETS-LINDGREN	Horn Antenna	3116	2516	2024-12-12	2027-12-11
A.H.Systems,inc	Amplifier	PAM-0118P	512	2026-03-16	2027-03-15
MICRO-TRONICS	Band Reject Filter	BRM50702	G024	2026-03-16	2027-03-15
Narda	Attenuator	10dB	010	2026-03-16	2027-03-15
SELECTOR	Amplifier	EM18G40G	60726	2026-03-16	2027-03-15
Rohde & Schwarz	Auto test Software	EMC32	100361	N/A	N/A
MICRO-COAX	Coaxial Cable	Cable-25	025	2026-03-12	2027-03-11
MICRO-COAX	Coaxial Cable	Cable-11	011	2026-03-16	2027-03-15
MICRO-COAX	Coaxial Cable	Cable-12	012	2026-03-16	2027-03-15
MICRO-COAX	Coaxial Cable	Cable-13	013	2026-03-16	2027-03-15
RF Conducted Test					
Rohde & Schwarz	Signal Analyzer	FSV40	101116	2026-03-16	2027-03-15
Narda	Attenuator	10dB	010	2026-03-16	2027-03-15
XHFDZ	RG316 Coaxial Cable	SMA-316	XHF-1175	Each time	N/A

Conducted Emission Test					
Rohde & Schwarz	EMI Test Receiver	ESR	1316.3003K03-101746-zn	2026-03-13	2027-03-12
Rohde & Schwarz	LISN	ENV216	101115	2026-03-12	2027-03-11
Audix	Test Software	e3	V9	N/A	N/A
Rohde & Schwarz	Pulse limiter	ESH3-Z2	100552	2026-04-08	2027-04-07
MICRO-COAX	Coaxial Cable	Cable-15	015	2026-03-13	2027-03-12

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

FCC §1.1307(b) & §2.1093 - RF EXPOSURE

Applicable Standard

According to§15.247(i) and §1.1310, systems operating under the provisions of this section shall be operated in a manner that ensure that the public is not exposed to radio frequency energy level in excess of the Commission's guideline.

According to KDB447498 D01 General RF Exposure Guidance v06:

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances ≤ 50 mm are determined by:
[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] [√f(GHz)] ≤ 3.0 for 1-g SAR and ≤ 7.5 for 10-g extremity SAR, where
• f(GHz) is the RF channel transmit frequency in GHz
• Power and distance are rounded to the nearest mW and mm before calculation
• The result is rounded to one decimal place for comparison
• 3.0 and 7.5 are referred to as the numeric thresholds in the step 2 below

The test exclusions are applicable only when the minimum test separation distance is ≤ 50 mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is < 5 mm, a distance of 5 mm according to 5) in section 4.1 is applied to determine SAR test exclusion.

Measurement Result

Mode	Frequency Range (MHz)	Max Tune-up Conducted Power★		Calculated Distance (mm)	Calculated Value	Threshold (1-g SAR)	SAR Test Exclusion
		(dBm)	(mW)				
SRD	2404-2478	-0.1	0.98	5.0	0.3	3.0	Yes

Note: For the above tune up power were declared by the manufacturer.

Result: So the standalone SAR evaluation is not necessary.

FCC §15.203 – 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.

Antenna Connector Construction

The EUT have a PCB antenna which permanently attached to the unit. Fulfill the requirement of this section. Please refer to the EUT photos.

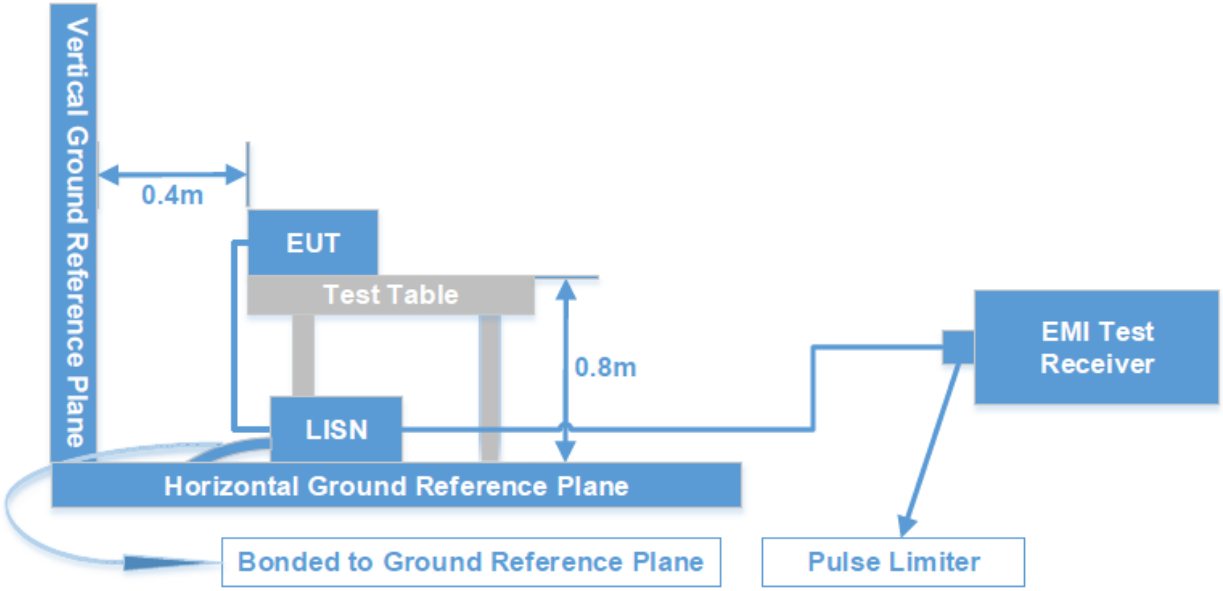
Result: Compliant.

FCC §15.207 (a) – AC LINE CONDUCTED EMISSIONS

Applicable Standard

FCC §15.207(a)

Test System Setup



The measurement procedure of EUT setup is according with ANSI C63.10-2020. The related limit was specified in FCC Part 15.207.

EMI Test Receiver Setup

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

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

Frequency Range	RBW
150 kHz – 30 MHz	9 kHz

Test Procedure

During the conducted emission test, the EUT was connected to the outlet of the LISN.

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

If the maximum peak value of the emissions is below the average limit, the QP value and average value measurement will not need to be performed and only record the maximum peak measured value to meet the requirements.

Level & Over Limit Calculation

The Level is calculated by adding LISN VDF (Voltage Division Factor), Cable Loss and Transient Limiter Attenuation from the Meter Reading. The basic equation is as follows:

Factor (dB) = LISN VDF (dB) + Cable Loss (dB) + Transient Limiter Attenuation (dB)
Level (dBμV) = Read level (dBμV) + Factor (dB)

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 above the limit. The equation for Over Limit calculation is as follows:

Over Limit (dB) = Level (dBμV) - Limit (dBμV)

Test Results Summary

According to the recorded data in following table, the EUT complied with the FCC Part 15.207.

Test Data: See Appendix

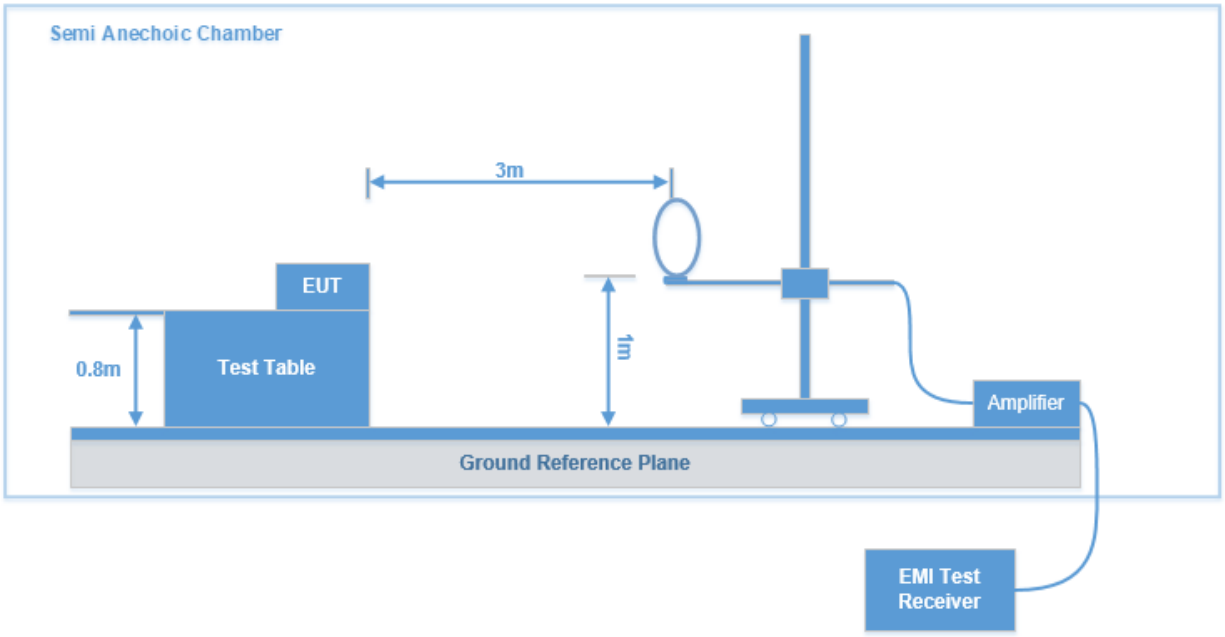
FCC §15.205, §15.209 & §15.247(d) – RADIATED EMISSIONS

Applicable Standard

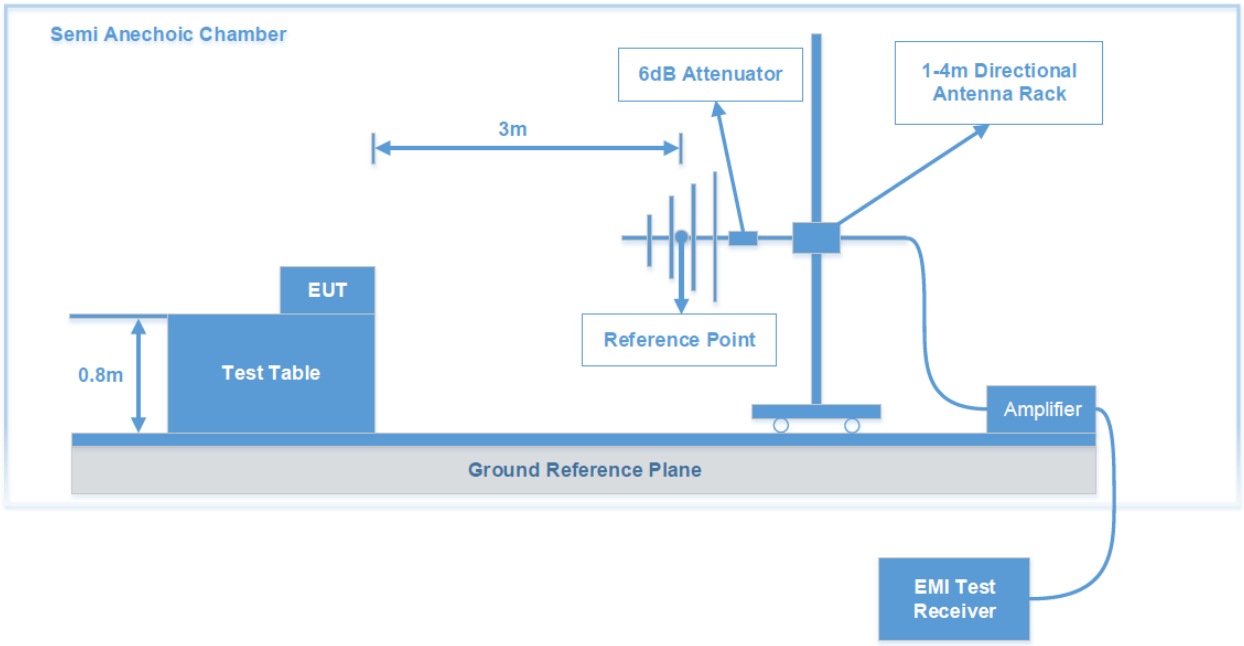
FCC §15.205; §15.209; §15.247(d)

Test System Setup

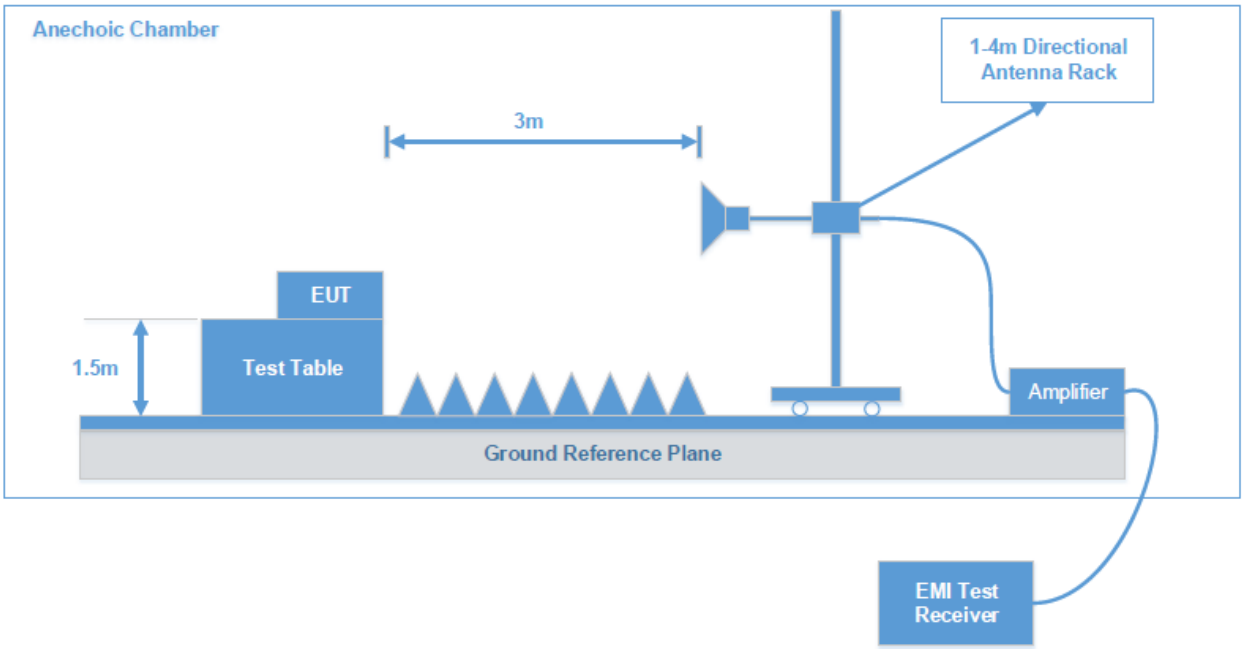
9 kHz – 30 MHz:



30 MHz - 1 GHz:



Above 1 GHz:



The radiated emission tests were performed in the 3 meters, using the setup accordance with the ANSI C63.10-2020. The specification used was the FCC 15.209 and FCC 15.247 limits.

EMI Test Receiver Setup

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

Frequency Range	RBW	VBW	IF B/W	Measurement	Detector
9 kHz – 150 kHz	200 Hz	1 kHz	200 Hz	Peak/QP	Peak/QP
150 kHz – 30 MHz	9 kHz	30 kHz	9 kHz	Peak/QP	Peak/QP
30 MHz – 1000 MHz	100 kHz	300 kHz	/	Peak	Peak
	/	/	120 kHz	QP	QP
Above 1GHz	1MHz	3 MHz	/	Peak	Peak
	1MHz	3 MHz	/	Average	Average

Test Procedure

Maximizing procedure was performed on the highest emissions to ensure that the EUT complied with all installation combinations.

If the measured peak level of the emissions that the measuring receiver reading level plus corrected factor is at least 6 dB below the QP emission limit, there's no need to record the measured QP level of the emissions in the report.

For 9 kHz-30MHz test, the lowest height of the magnetic antenna shall be 1 m above the ground and three antenna orientations (parallel, perpendicular, and ground-parallel) shall be measured.

Data was recorded in Quasi-peak detection mode for frequency range of 9 kHz -1 GHz, except 9-90 kHz, 110-490 kHz, employing an average detector, peak and Average detection modes for frequencies above 1 GHz.

Corrected Amplitude & Margin Calculation

The Corrected Amplitude 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:

Corrected Amplitude (dBμV/m) = Meter Reading (dBμV) + Antenna Factor (dB/m) + Cable Loss (dB) - Amplifier Gain (dB)

The "Margin" column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of 7dB means the emission is 7dB below the limit. The equation for margin calculation is as follows:

Margin (dB) = Limit (dBμV/m) – Corrected Amplitude (dBμV/m)

Note: The QuasiPeak (dBμV/m), MaxPeak (dBμV/m), Average (dBμV/m) which shown in the data table are all Corrected Amplitude.

Test Results Summary

According to the recorded data in following table, the EUT complied with the FCC Title 47, Part 15, Subpart C, section 15.205, 15.209 and 15.247.

Test Data: See Appendix

FCC §15.247(a) (1)-CHANNEL SEPARATION TEST

Applicable Standard

Frequency hopping systems shall have hoping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater. Alternatively, frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater provided the systems operate with an output power no greater than 125 mW.

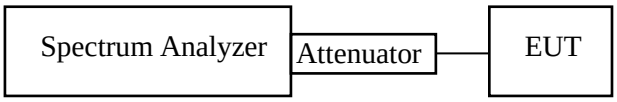
Test Procedure

According to ANSI C63.10-2020 sub-clause 7.8.2

The EUT shall have its hopping function enabled. Use the following spectrum analyzer settings:

a. Span: Wide enough to capture the peaks of two adjacent channels.
b. RBW: Start with the RBW set to approximately 30% of the channel spacing; adjust as necessary to best identify the center of each individual channel.
c. Video (or average) bandwidth (VBW) ≥ RBW.
d. Sweep: Auto.
e. Detector function: Peak.
f. Trace: Max hold.
g. Allow the trace to stabilize.

Use the marker-delta function to determine the separation between the peaks of the adjacent channels.



Note: Offset（10.5dB）= Attenuator(10dB)+Cable loss(0.5dB)

Test Data: See Appendix

FCC §15.247(a) (1) – 20 dB EMISSION BANDWIDTH

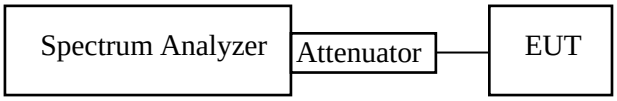
Applicable Standard

Alternatively, frequency hopping systems operating in the 2400–2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 125 mW.

Test Procedure

According to ANSI C63.10-2020 sub-clause 6.9.2

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. Measure the frequency difference of two frequencies that were attenuated 20 dB from the reference level. Record the frequency difference as the emission bandwidth.
4. Repeat above procedures until all frequencies measured were complete.



Note: Offset（10.5dB）= Attenuator(10dB)+Cable loss(0.5dB)

Test Data: See Appendix

FCC §15.247(a) (1) (iii)-QUANTITY OF HOPPING CHANNEL TEST

Applicable Standard

Frequency hopping systems in the 2400–2483.5 MHz band shall use at least 15 channels. The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed. Frequency hopping systems may avoid or suppress transmissions on a particular hopping frequency provided that a minimum of 15 channels are used.

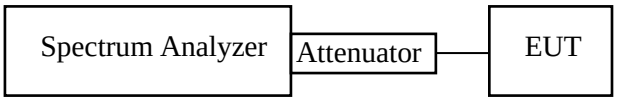
Test Procedure

According to ANSI C63.10-2020 sub-clause 7.8.3

The EUT shall have its hopping function enabled. Use the following spectrum analyzer settings:

a. Span: The frequency band of operation. Depending on the number of channels the device supports, it may be necessary to divide the frequency range of operation across multiple spans, to allow the individual channels to be clearly seen.
b. RBW: To identify clearly the individual channels, set the RBW to less than 30% of the channel spacing or the 20 dB bandwidth, whichever is smaller.
c. VBW ≥ RBW.
d. Sweep: Auto.
e. Detector function: Peak.
f. Trace: Max hold.
g. Allow the trace to stabilize.

It might prove necessary to break the span up into subranges to show clearly all of the hopping frequencies.



Note: Offset（10.5dB）= Attenuator(10dB)+Cable loss(0.5dB)

Test Data: See Appendix

FCC §15.247(a) (1) (iii) - TIME OF OCCUPANCY (DWELL TIME)

Applicable Standard

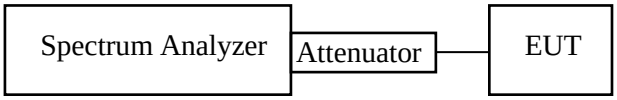
Frequency hopping systems in the 2400-2483.5 MHz shall use at least 15 channels. The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed. Frequency hopping systems may avoid or suppress transmissions on a particular hopping frequency provided that a minimum of 15 channels are used.

Test Procedure

According to ANSI C63.10-2020 sub-clause 7.8.4

The EUT shall have its hopping function enabled. Use the following spectrum analyzer settings:

a. Span: Zero span, centered on a hopping channel.
b. RBW shall be ≤ channel spacing and where possible RBW should be set ≥ 1 / T, where T is the expected dwell time per channel.
c. Sweep: As necessary to capture the entire dwell time per hopping channel; where possible use a video trigger and trigger delay so that the transmitted signal starts a little to the right of the start of the plot. The trigger level might need slight adjustment to prevent triggering when the system hops on an adjacent channel; a second plot might be needed with a longer sweep time to show two successive hops on a channel.
d. Detector function: Peak.
e. Trace: Max hold.



Note: Offset（10.5dB）= Attenuator(10dB)+Cable loss(0.5dB)

Test Data: See Appendix

FCC §15.247(b) (1) - PEAK OUTPUT POWER MEASUREMENT

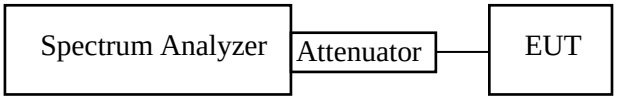
Applicable Standard

According to §15.247(b) (1), for frequency hopping systems operating in the 2400–2483.5 MHz band employing at least 75 non-overlapping hopping channels, and all frequency hopping systems in the 5725-5850 MHz band: 1 watt. And for all other frequency hopping systems in the 2400–2483.5 MHz band: 0.125 watts.

Test Procedure

According to ANSI C63.10-2020 sub-clause 7.8.5

a. Use the following spectrum analyzer settings:
1) Span: Approximately five times the 20 dB bandwidth, centered on a hopping channel.
2) RBW > 20 dB bandwidth of the emission being measured.
3) VBW ≥ RBW.
4) Sweep: Auto.
5) Detector function: Peak.
6) Trace: Max hold.
b. Allow trace to stabilize.
c. Use the marker-to-peak function to set the marker to the peak of the emission.
d. The indicated level is the peak output power, after any corrections for external attenuators and cables.
e. A plot of the test results and setup description shall be included in the test report.



Note: Offset（10.5dB）= Attenuator(10dB)+Cable loss(0.5dB)

Test Data: See Appendix

FCC §15.247(d) - BAND EDGES TESTING & CONDUCTED SPURIOUS EMISSION

BAND EDGES

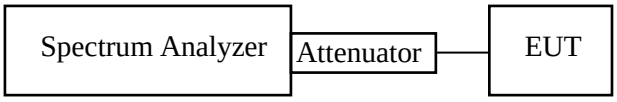
Applicable Standard

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates Compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

Test Procedure

According to ANSI C63.10-2020 sub-clause 7.8.7

1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
2. Remove the antenna from the EUT and then connect to a low loss RF cable from the antenna port to a EMI test receiver, then turn on the EUT and make it operate in transmitting mode. Then set it to Low Channel and High Channel within its operating range, and make sure the instrument is operated in its linear range.
3. Set RBW of spectrum analyzer to 100 kHz with a convenient frequency span including 100 kHz bandwidth from band edge.
4. Measure the highest amplitude appearing on spectral display and set it as a reference level. Plot the graph with marking the highest point and edge frequency.
5. Repeat above procedures until all measured frequencies were complete.



Note: Offset（10.5dB）= Attenuator(10dB)+Cable loss(0.5dB)

Conducted Spurious Emission

Applicable Standard

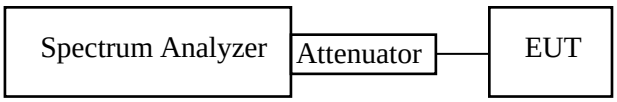
In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

Test Procedure

Test Method: ANSI C63.10-2020 Clause 7.8.7.1
To demonstrate compliance with the relative out-of-band emissions requirements conducted spurious emissions shall be measured for the transmit frequencies, per 5.5 and 5.6, and at the maximum transmit powers. Frequency hopping shall be disabled for this test with the exception of measurements at the allocated band-edges which shall be repeated with hopping enabled.

Connect the primary antenna port through an attenuator to the spectrum analyzer input; in the results, account for all losses between the unlicensed wireless device output and the spectrum analyzer. The frequency range of testing shall span 30 MHz to 10 times the operating frequency and this may be done in a single sweep or, to aid resolution, across a number of sweeps. The resolution bandwidth shall be 100 kHz, video bandwidth 300 kHz, and a coupled sweep time with a peak detector.

The limit is based on the highest in-band level across all channels measured using the same instrument settings (resolution bandwidth of 100 kHz, video bandwidth of 300 kHz, and a coupled sweep time with a peak detector). To help clearly demonstrate compliance a display line may be set at the required offset (typically 20 dB) below the highest in-band level. Where the highest in-band level is not clearly identified in the out-of-band measurements a separate spectral plot showing the in-band level shall be provided.



Note: Offset (13dB) = Attenuator (10dB) + Cable Loss (3.0dB)

Test Datd: See Appendix

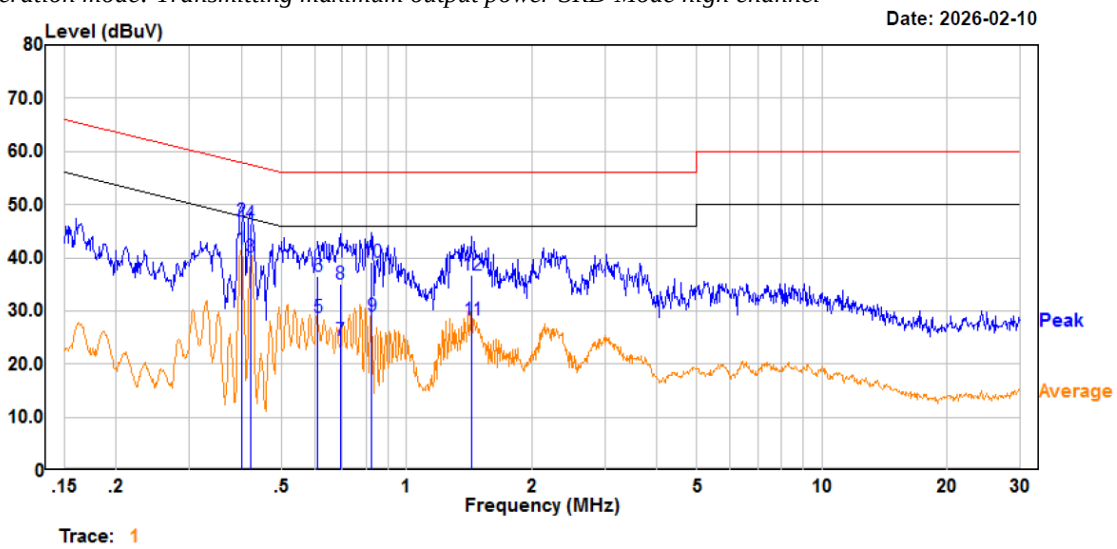
APPENDIX - TEST DATA

AC LINE CONDUCTED EMISSIONS

Environmental Conditions & Test Information

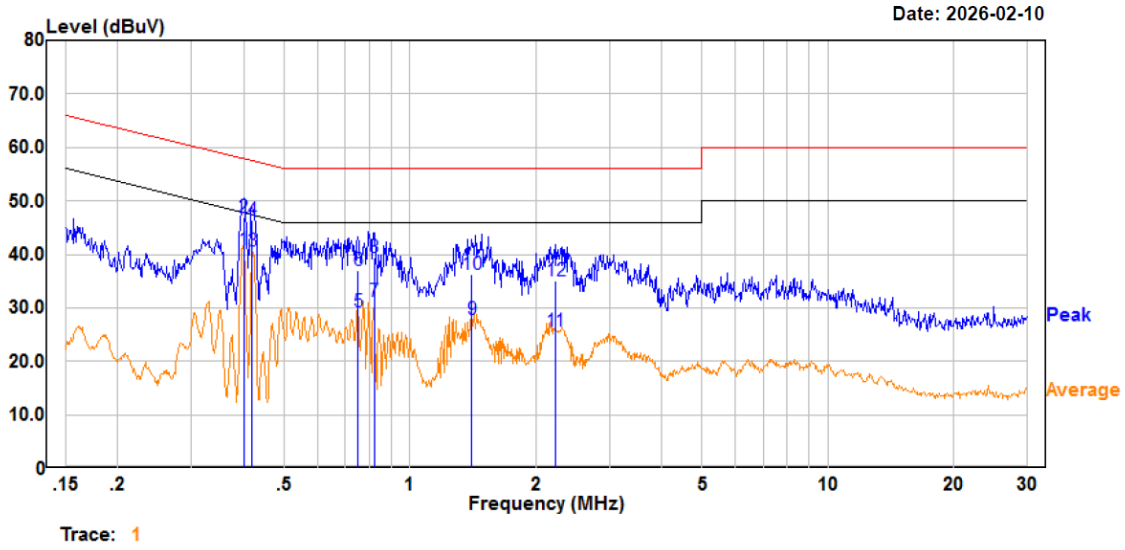
Test Date:	2026-02-10
Temperature:	15.1 ℃
Relative Humidity:	30 %
ATM Pressure:	102.4 kPa
Test Result:	Pass
Test Engineer:	Jack He

EUT operation mode: Transmitting maximum output power SRD Mode high channel




```
Site                 : CE
Condition            : limit\FCC PART 15.207\FCC 15.207 QP.csv Line
                     : DET:Peak
Project No.          : RSHA260130001
Model                : S128
Phase                : L
Voltage              : 120V/60Hz
Mode                 : transmitting in SRD mode High Channel
Test Equipment       : ENV216,ESR3
Receiver Setting     : RBW: 9 kHz, Sweep Time: Auto
Temperature          : 15.1℃
Humidity             : 30%
Atmospheric pressure: 102.4kPa
Test Engineer        : Jack He
Check by             : Bard Liu
```

	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	
1	0.400	21.20	20.30	41.50	47.84	-6.34	Average
2	0.400	26.60	20.30	46.90	57.84	-10.94	QP
3	0.421	19.80	20.29	40.09	47.43	-7.34	Average
4	0.421	26.20	20.29	46.49	57.43	-10.94	QP
5	0.612	8.50	20.22	28.72	46.00	-17.28	Average
6	0.612	16.30	20.22	36.52	56.00	-19.48	QP
7	0.693	4.20	20.26	24.46	46.00	-21.54	Average
8	0.693	14.90	20.26	35.16	56.00	-20.84	QP
9	0.825	8.90	20.22	29.12	46.00	-16.88	Average
10	0.825	19.00	20.22	39.22	56.00	-16.78	QP
11	1.434	8.10	20.23	28.33	46.00	-17.67	Average
12	1.434	16.40	20.23	36.63	56.00	-19.37	QP



Site : CE
Condition : limit\FCC PART 15.207\FCC 15.207 QP.csv Neutral
: DET:Peak
Project No. : RSHA260130001
Model : S128
Phase : N
Voltage : 120V/60Hz
Mode : transmitting in SRD mode High Channel
Test Equipment : ENV216,ESR3
Receiver Setting : RBW: 9 kHz, Sweep Time: Auto
Temperature : 15.1℃
Humidity : 30%
Atmospheric pressure: 102.4kPa
Test Engineer : Jack He
Check by : Bard Liu

	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	
1	0.400	20.50	20.31	40.81	47.84	-7.03	Average
2	0.400	26.60	20.31	46.91	57.84	-10.93	QP
3	0.419	20.40	20.31	40.71	47.47	-6.76	Average
4	0.419	26.10	20.31	46.41	57.47	-11.06	QP
5	0.750	9.10	20.23	29.33	46.00	-16.67	Average
6	0.750	16.80	20.23	37.03	56.00	-18.97	QP
7	0.821	10.90	20.21	31.11	46.00	-14.89	Average
8	0.821	19.20	20.21	39.41	56.00	-16.59	QP
9	1.406	7.50	20.22	27.72	46.00	-18.28	Average
10	1.406	16.00	20.22	36.22	56.00	-19.78	QP
11	2.224	5.30	20.27	25.57	46.00	-20.43	Average
12	2.224	14.70	20.27	34.97	56.00	-21.03	QP

RADIATED EMISSIONS & RESTRICTED BANDS EMISSIONS

Environmental Conditions & Test Information

Frequency Range:	9 kHz – 30 MHz	30 MHz - 1 GHz	1 GHz - 18 GHz	18 GHz– 25 GHz
Test Date:	2026-07-18	2026-02-10	2026-06-02	2026-03-06
Temperature:	18.2 ℃	15.6 ℃	20.8 ℃	22.7℃
Relative Humidity:	47 %	43 %	45 %	47%
ATM Pressure:	100.6 kPa	102.2 kPa	100.6 kPa	101.2 kPa
Test Result:	Pass	Pass	Pass	Pass
Test Engineer:	Scarf Yang	Scarf Yang	Destine Hu	Hugh Wu

EUT operation mode: Transmitting

After pre-scan in the X, Y and Z axes of orientation, the worst case in X is below:

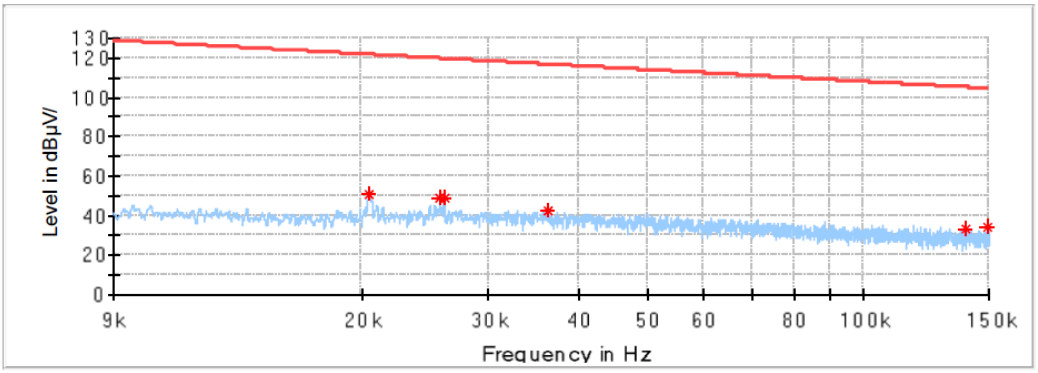
9 kHz-30 MHz: *(Transmitting maximum output power SRD Mode high channel)*

9 kHz-150 kHz
Transmitting maximum output power SRD Mode high channel
Parallel(worst case)

High Channel: 2478 MHz

Common Information

Project No:	RSHA260130001
EUT Model:	S128
Test Mode:	Transmitting in SRD mode High Channel
Standard:	FCC Part 15.247 & FCC Part 15.205 & FCC Part 15.209
Test Equipment:	ESCI, 1313-1A, 310N
Receiver Setting:	RBW:200 Hz, VBW: 1 kHz, Sweep Time: Auto
Temperature:	18.2℃
Humidity:	47%
Barometric Pressure:	100.6kPa
Test Engineer:	Scarf Yang
Check by:	Jenny Yang
Test Date:	2026/7/18



Critical_Freqs

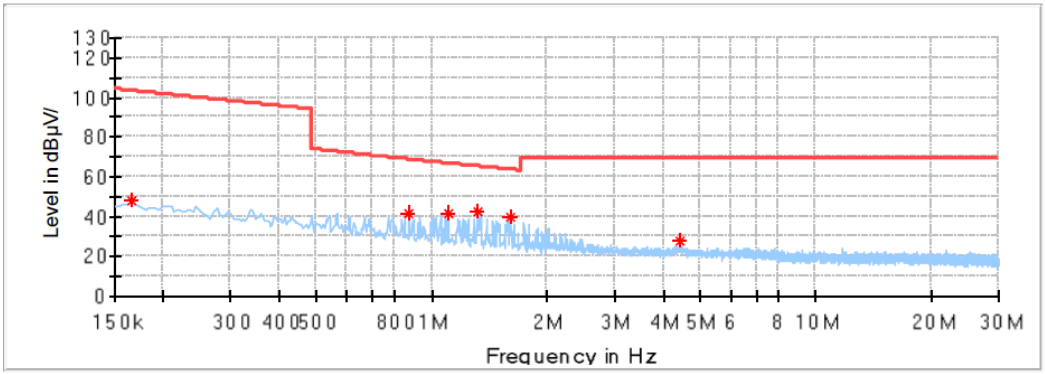
Frequency (MHz)	MaxPeak (dB µ V/m)	Limit (dB µ V/m)	Margin (dB)	Pol	Corr. (dB)
0.020439	50.35	121.39	71.04	V	-0.1
0.025638	49.22	119.42	70.20	V	-0.1
0.026026	48.55	119.29	70.73	V	-0.1
0.036213	42.84	116.42	73.58	V	-1.0
0.138896	33.59	104.75	71.16	V	-10.2
0.149559	34.34	104.11	69.76	V	-10.6

150 kHz – 30MHz
Transmitting maximum output power SRD Mode high channel
Parallel(worst case)

High Channel: 2478 MHz

Common Information

Project No:	RSHA260130001
EUT Model:	S128
Test Mode:	Transmitting in SRD mode High Channel
Standard:	FCC Part 15.247 & FCC Part 15.205 & FCC Part 15.209
Test Equipment:	ESCI, 1313-1A, 310N
Receiver Setting:	RBW:9 kHz, VBW: 30 kHz, Sweep Time: Auto
Temperature:	18.2℃
Humidity:	47%
Barometric Pressure:	100.6kPa
Test Engineer:	Scarf Yang
Check by:	Jenny Yang
Test Date:	2026/7/18



Critical_Freqs

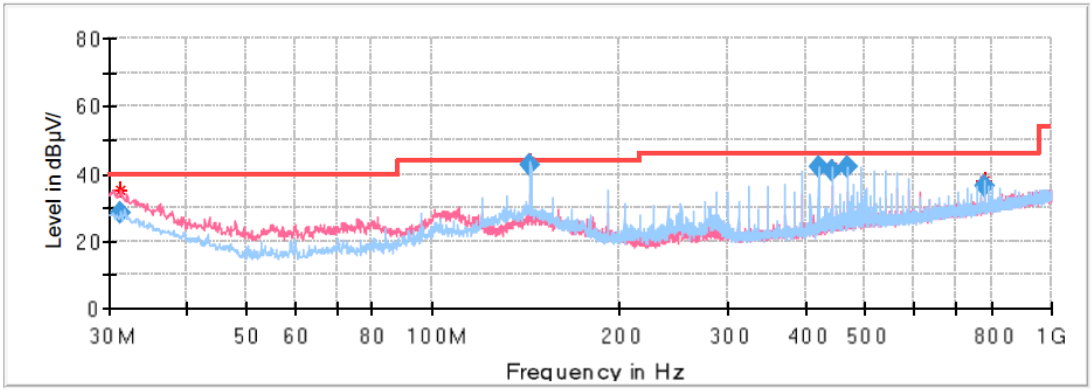
Frequency (MHz)	MaxPeak (dB µ V/m)	Limit (dB µ V/m)	Margin (dB)	Pol	Corr. (dB)
0.164925	48.28	103.22	54.94	V	-11.3
0.870131	41.92	68.60	26.68	V	-26.0
1.101469	41.63	66.57	24.94	V	-27.4
1.317881	42.14	65.07	22.93	V	-28.2
1.601456	39.35	63.47	24.13	V	-29.1
4.433475	27.42	69.54	42.12	V	-31.3

30 MHz - 1 GHz (Transmitting in maximum output power SRD mode High channel):

High Channel: 2478 MHz

Common Information

Project No:	RSHA260130001
EUT Model:	S128
Test Mode:	Transmitting in SRD mode High Channel
Standard:	FCC Part 15.247 & FCC Part 15.205 & FCC Part 15.209
Test Equipment:	ESCI, JB3, 310N
Receiver Setting:	RBW:100 kHz, VBW: 300 kHz, Sweep Time: Auto
Temperature:	15.6℃
Humidity:	43%
Barometric Pressure:	102.2kPa
Test Engineer:	Scarf Yang
Check by:	Jenny Yang
Test Date:	2026/2/10



Final_Result

Frequency (MHz)	QuasiPeak (dB µ V/m)	Limit (dB µ V/m)	Margin (dB)	Pol	Corr. (dB/m)
31.333750	28.17	40.00	11.83	V	-5.2
143.975000	42.74	43.50	0.76	H	-11.4
420.061250	41.88	46.00	4.12	H	-7.5
444.068750	40.96	46.00	5.04	H	-6.9
468.076250	42.23	46.00	3.77	H	-6.2
780.052500	36.28	46.00	9.72	H	-1.1

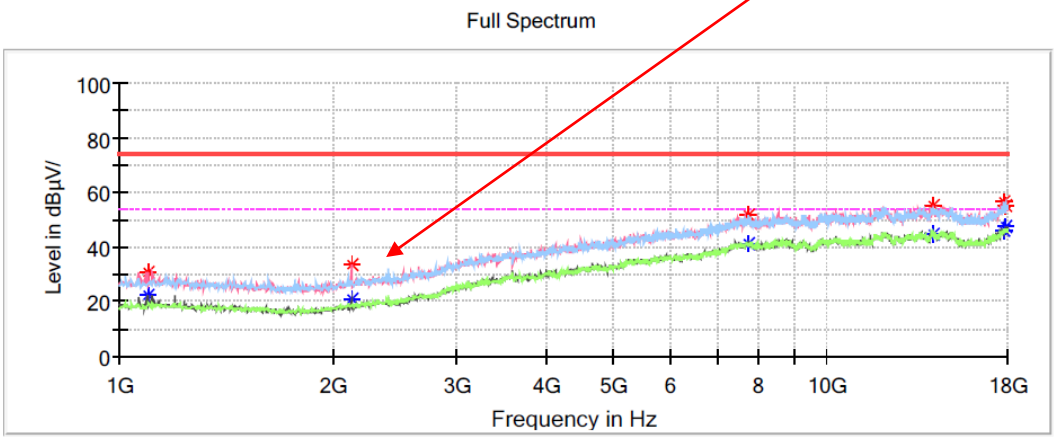
1 GHz - 18 GHz:

Low Channel: 2404 MHz

Common Information

Project No.:	RSHA260130001
EUT Model:	S128
Test Mode:	Transmitting in SRD
Standard:	FCC Part 15.247& FCC Part 15.205& FCC Part 15.209
Test Equipment:	ESU40,3115,PAM-0118P
Receiver Setting:	RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Temperature:	20.8℃
Humidity:	45%
Atmospheric Pressure:	100.6kPa
Test Engineer:	Destine Hu
Check by:	Jenny Yang
Test Date:	2026/6/2

Fundamental Test with Band Reject Filter



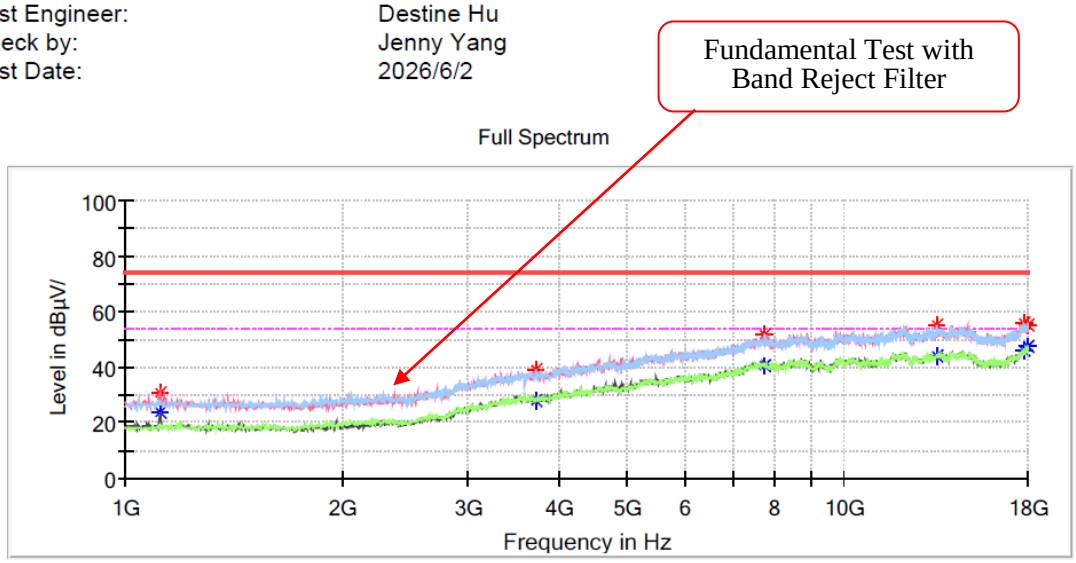
Critical_Freqs

Frequency (MHz)	MaxPeak (dB µ V/m)	Average (dB µ V/m)	Limit (dB µ V/m)	Margin (dB)	Pol	Corr. (dB/m)
1095.200000	---	22.49	54.00	31.51	V	-15.7
1095.200000	31.02	---	74.00	42.98	V	-15.7
2125.400000	33.54	---	74.00	40.46	V	-11.3
2125.400000	---	21.09	54.00	32.91	V	-11.3
7725.200000	---	41.02	54.00	12.98	H	3.4
7725.200000	51.43	---	74.00	22.57	H	3.4
14144.400000	55.09	---	74.00	18.91	V	10.8
14144.400000	---	44.54	54.00	9.46	V	10.8
17768.800000	56.36	---	74.00	17.64	H	12.4
17768.800000	---	46.21	54.00	7.79	H	12.4
17840.200000	55.11	---	74.00	18.89	V	12.9
17840.200000	---	47.51	54.00	6.49	V	12.9

Middle Channel: 2440 MHz

Common Information

Project No.:	RSHA260130001
EUT Model:	S128
Test Mode:	Transmitting in SRD
Standard:	FCC Part 15.247& FCC Part 15.205& FCC Part 15.209
Test Equipment:	ESU40,3115,PAM-0118P
Receiver Setting:	RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Temperature:	20.8℃
Humidity:	45%
Atmospheric Pressure:	100.6kPa
Test Engineer:	Destine Hu
Check by:	Jenny Yang
Test Date:	2026/6/2



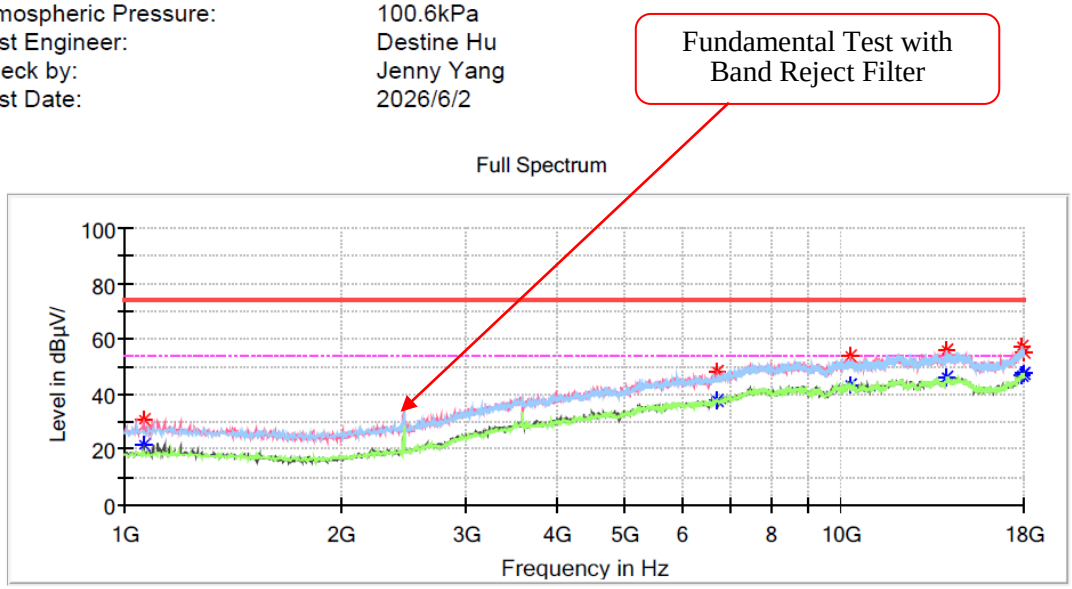
Critical_Freqs

Frequency (MHz)	MaxPeak (dB µ V/m)	Average (dB µ V/m)	Limit (dB µ V/m)	Margin (dB)	Pol	Corr. (dB/m)
1115.600000	---	24.01	54.00	29.99	V	-15.7
1115.600000	30.63	---	74.00	43.37	V	-15.7
3720.000000	---	28.17	54.00	25.83	H	-5.7
3720.000000	39.26	---	74.00	34.74	H	-5.7
7766.000000	---	40.49	54.00	13.51	V	3.4
7766.000000	51.89	---	74.00	22.11	V	3.4
13461.000000	55.09	---	74.00	18.91	H	9.6
13461.000000	---	43.99	54.00	10.01	H	9.6
17779.000000	---	46.12	54.00	7.88	V	12.5
17779.000000	56.24	---	74.00	17.76	V	12.5
17996.600000	---	47.40	54.00	6.60	H	13.8
17996.600000	55.21	---	74.00	18.79	H	13.8

High Channel: 2478 MHz

Common Information

Project No.:	RSHA260130001
EUT Model:	S128
Test Mode:	Transmitting in SRD
Standard:	FCC Part 15.247& FCC Part 15.205& FCC Part 15.209
Test Equipment:	ESU40,3115,PAM-0118P
Receiver Setting:	RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Temperature:	20.8℃
Humidity:	45%
Atmospheric Pressure:	100.6kPa
Test Engineer:	Destine Hu
Check by:	Jenny Yang
Test Date:	2026/6/2



Critical_Freqs

Frequency (MHz)	MaxPeak (dB µ V/m)	Average (dB µ V/m)	Limit (dB µ V/m)	Margin (dB)	Pol	Corr. (dB/m)
1061.200000	---	21.91	54.00	32.09	V	-15.9
1061.200000	30.57	---	74.00	43.43	V	-15.9
6715.400000	---	38.03	54.00	15.97	V	0.3
6715.400000	48.53	---	74.00	25.47	V	0.3
10302.400000	---	43.28	54.00	10.72	V	6.5
10302.400000	54.15	---	74.00	19.85	V	6.5
14008.400000	---	45.83	54.00	8.17	H	10.6
14008.400000	55.81	---	74.00	18.19	H	10.6
17928.600000	---	46.63	54.00	7.37	H	13.4
17928.600000	57.03	---	74.00	16.97	H	13.4
17945.600000	55.08	---	74.00	18.92	V	13.5
17945.600000	---	47.69	54.00	6.31	V	13.5

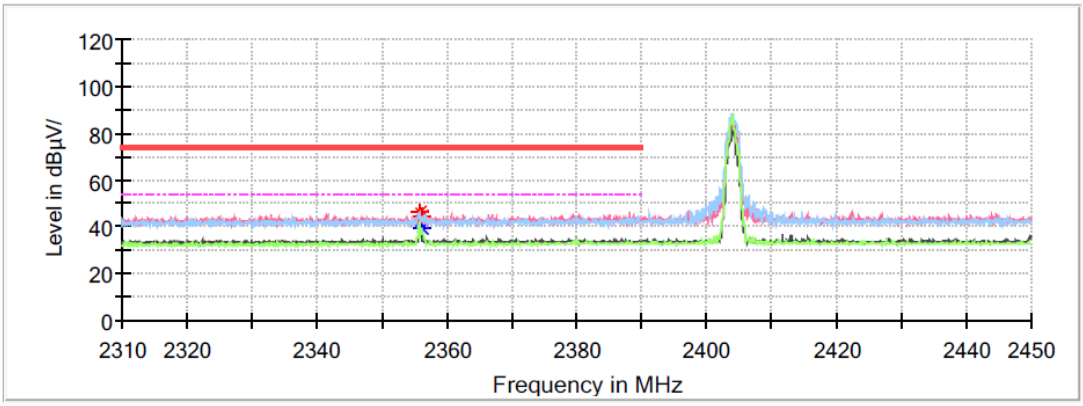
Band Edge:

Left Side

Common Information

Project No.:	RSHA260130001
EUT Model:	S128
Test Mode:	Transmitting in SRD
Standard:	FCC Part 15.247& FCC Part 15.205& FCC Part 15.209
Test Equipment:	ESU40,3115,PAM-0118P
Receiver Setting:	RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Temperature:	20.8℃
Humidity:	45%
Atmospheric Pressure:	100.6kPa
Test Engineer:	Destine Hu
Check by:	Jenny Yang
Test Date:	2026/6/2

Full Spectrum



Critical_Freqs

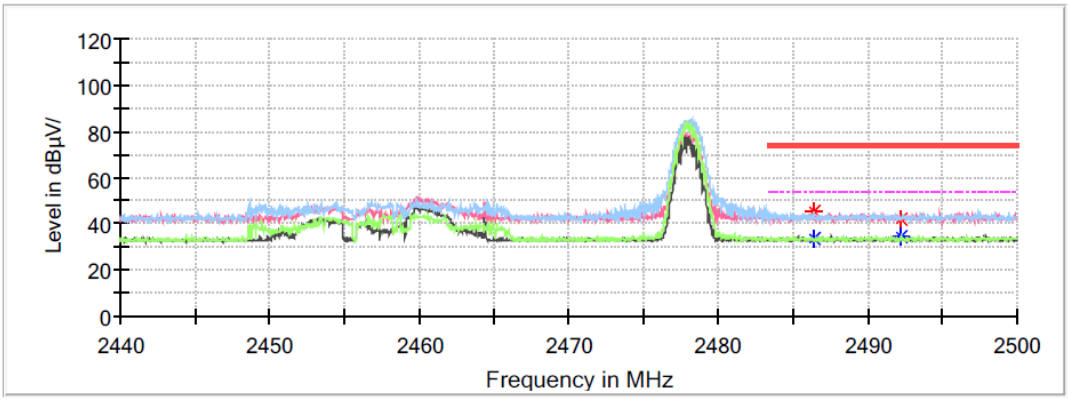
Frequency (MHz)	MaxPeak (dB µ V/m)	Average (dB µ V/m)	Limit (dB µ V/m)	Margin (dB)	Pol	Corr. (dB/m)
2355.752000	---	41.58	54.00	12.42	H	-0.7
2355.752000	46.07	---	74.00	27.93	H	-0.7
2356.200000	44.22	---	74.00	29.78	H	-0.7
2356.200000	---	39.54	54.00	14.46	H	-0.7

Right Side

Common Information

Project No.:	RSHA260130001
EUT Model:	S128
Test Mode:	Transmitting in SRD
Standard:	FCC Part 15.247& FCC Part 15.205& FCC Part 15.209
Test Equipment:	ESU40,3115,PAM-0118P
Receiver Setting:	RBW: 1MHz, VBW: 3MHz, Sweep Time: Auto
Temperature:	20.8℃
Humidity:	45%
Atmospheric Pressure:	100.6kPa
Test Engineer:	Destine Hu
Check by:	Jenny Yang
Test Date:	2026/6/2

Full Spectrum

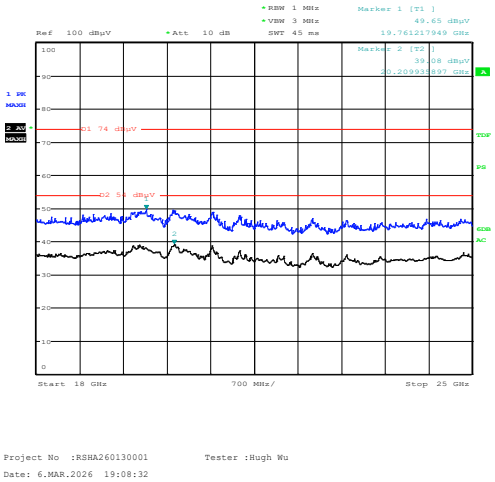


Critical_Freqs

Frequency (MHz)	MaxPeak (dB µ V/m)	Average (dB µ V/m)	Limit (dB µ V/m)	Margin (dB)	Pol	Corr. (dB/m)
2486.416000	44.92	---	74.00	29.08	H	-0.3
2486.416000	---	33.27	54.00	20.73	H	-0.3
2492.200000	42.05	---	74.00	31.95	H	-0.3
2492.200000	---	34.50	54.00	19.50	H	-0.3

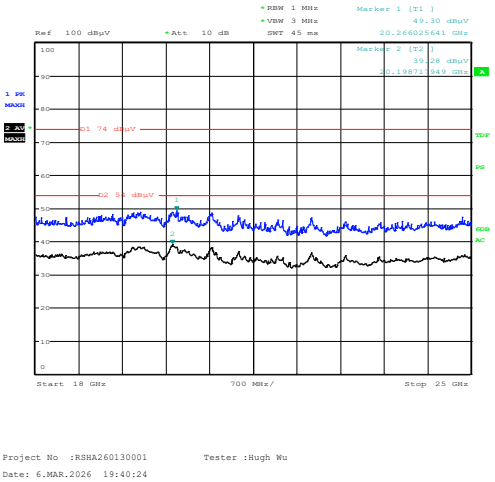
18 GHz - 25 GHz (Transmitting maximum output power SRD Mode high channel):

Horizontal



Project No :RSHA260130001 Tester :Hugh Wu
Date: 6.MAR.2026 19:08:32

Vertical



Project No :RSHA260130001 Tester :Hugh Wu
Date: 6.MAR.2026 19:40:24

Frequency (GHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Pol	Corr. (dB/m)
20.20	---	39.28	54	14.72	V	12.46
20.27	49.3	---	74	24.7	V	12.52
20.21	---	39.08	54	14.92	H	12.47
19.76	49.65	---	74	24.35	H	11.59

Note: The test distance is 3m. The limit is 74dBµV/m(Peak) and 54dBµV/m(Average).

CHANNEL SEPARATION TEST

Environmental Conditions & Test Information

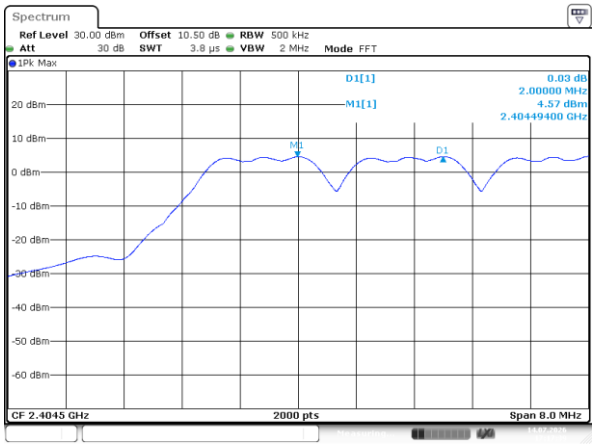
Test Date:	2026-07-14
Temperature:	23.4 ℃
Relative Humidity:	51 %
ATM Pressure:	100.6 kPa
Test Result:	Pass
Test Engineer:	Neil Zhou

EUT operation mode: Transmitting

Mode	Channel	Result (MHz)	Limit (MHz)	Result
SRD	Low	2	0.758	Pass
	Middle	2	0.758	Pass
	High	2	0.758	Pass

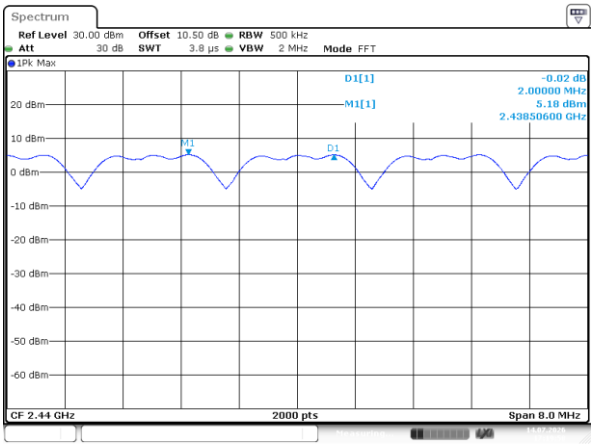
Note: Limit = 20 dB bandwidth*2/3

2404 MHz



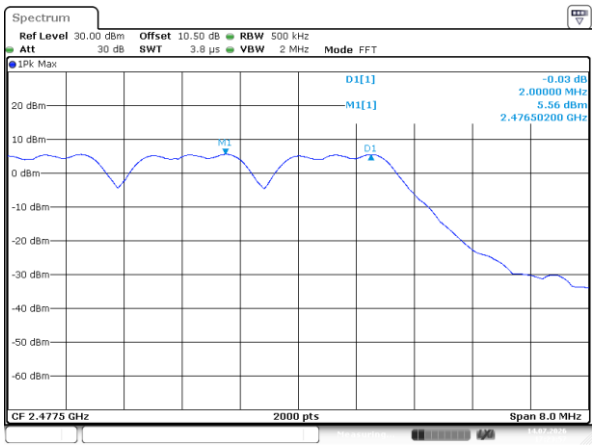
ProjectNo.:RSHA260130001 Tester:Neil Zhou
Date: 14.JUL.2026 17:17:39

2440 MHz



ProjectNo.:RSHA260130001 Tester:Neil Zhou
Date: 14.JUL.2026 17:19:58

2478 MHz



ProjectNo.:RSHA260130001 Tester:Neil Zhou
Date: 14.JUL.2026 17:23:57

20 dB BANDWIDTH TEST

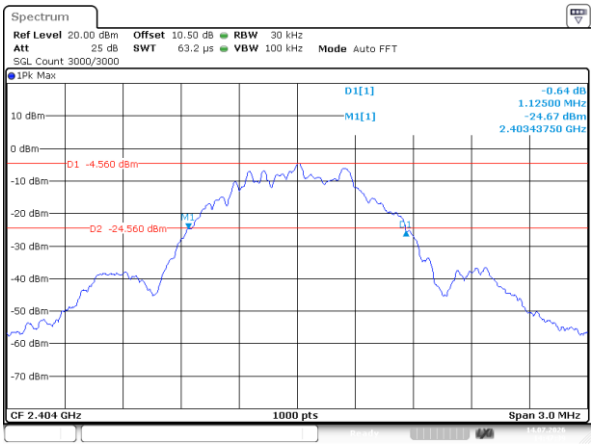
Environmental Conditions & Test Information

Test Date:	2026-07-14
Temperature:	23.4 ℃
Relative Humidity:	51 %
ATM Pressure:	100.6 kPa
Test Result:	Pass
Test Engineer:	Neil Zhou

EUT operation mode: Transmitting

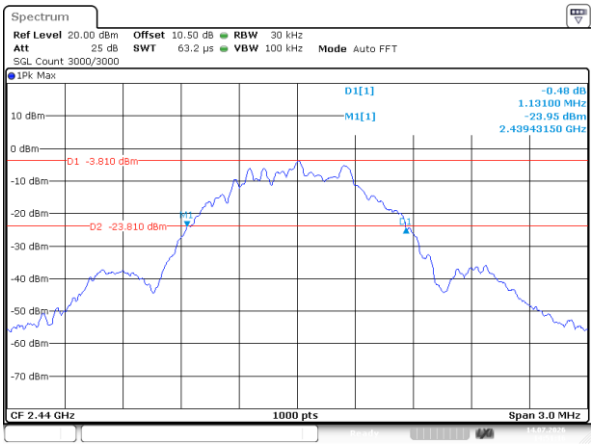
Mode	Channel	Frequency (MHz)	20 dB Emission Bandwidth (MHz)
SRD	Low	2404	1.125
	Middle	2440	1.131
	High	2478	1.137

Low Channel



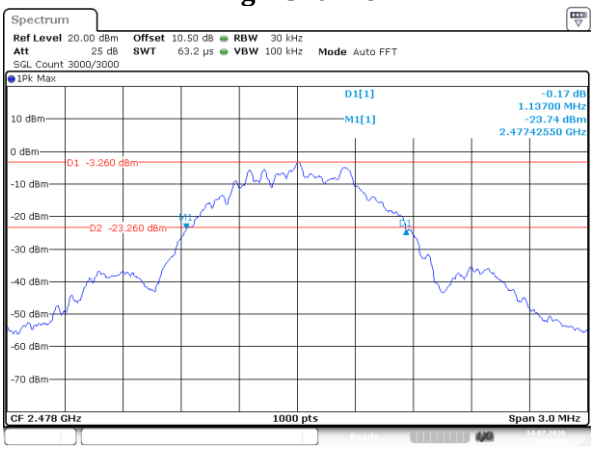
ProjectNo.:RSHA260130001 Tester:Neil Zhou
Date: 14.JUL.2026 14:47:39

Middle Channel



ProjectNo.:RSHA260130001 Tester:Neil Zhou
Date: 14.JUL.2026 14:51:15

High Channel



ProjectNo.:RSHA260130001 Tester:Neil Zhou
Date: 14.JUL.2026 14:54:49

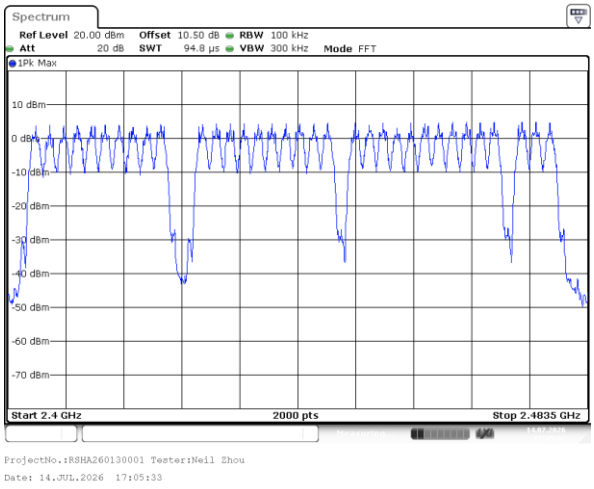
QUANTITY OF HOPPING CHANNEL TEST

Environmental Conditions & Test Information

Test Date:	2026-07-14
Temperature:	23.4 ℃
Relative Humidity:	51 %
ATM Pressure:	100.6 kPa
Test Result:	Pass
Test Engineer:	Neil Zhou

EUT operation mode: Hopping

Mode	Channel	Number of Hopping Channel (CH)	Limit (CH)
SRD	Hopping	34	≥15



TIME OF OCCUPANCY (DWELL TIME)

Environmental Conditions & Test Information

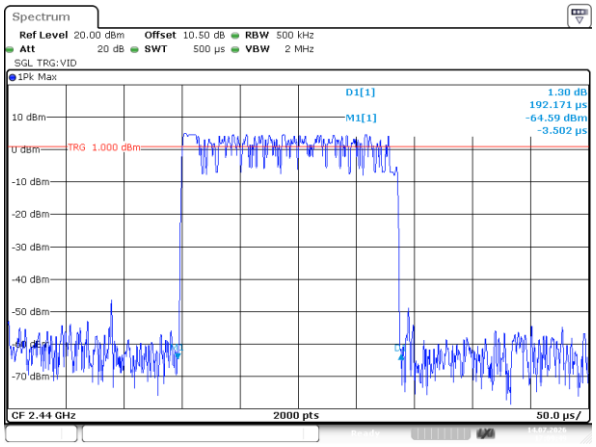
Test Date:	2026-07-14
Temperature:	23.4 ℃
Relative Humidity:	51 %
ATM Pressure:	100.6 kPa
Test Result:	Pass
Test Engineer:	Neil Zhou

EUT operation mode: Hopping

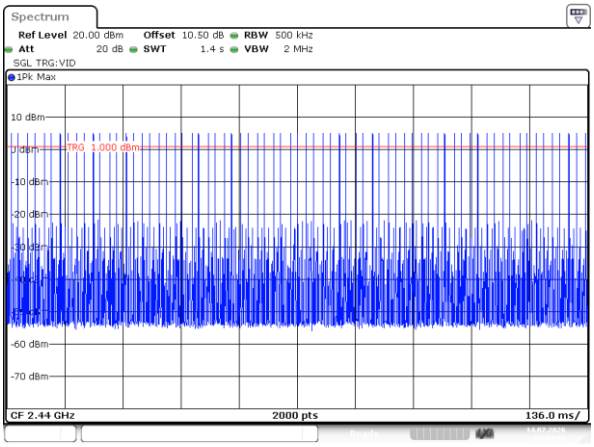
Mode	Channel	BurstWidth (ms)	TotalHops (Num)	Dwell time (s)	Limit (s)	Result
SRD	Middle	0.192	710	0.1363	0.4	Pass

Note:
A period time = 0.4*34=13.6(s)
Dwell time =BurstWidth * TotalHops
TotalHops= Hopping Number in 1.36s*10
Hopping Number in 1.36s = Total of highest signals in 1.36s (Second high signals were other channel)

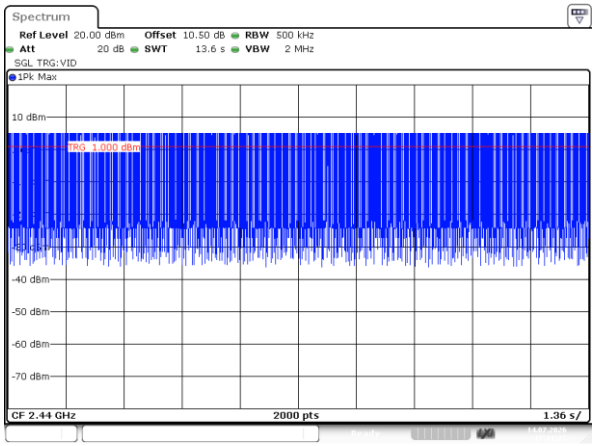
Middle Channel



ProjectNo.:RSHA260130001 Tester:Neil Zhou
Date: 14.JUL.2026 17:09:49



ProjectNo.:RSHA260130001 Tester:Neil Zhou
Date: 14.JUL.2026 17:13:31



ProjectNo.:RSHA260130001 Tester:Neil Zhou
Date: 14.JUL.2026 17:11:16

PEAK OUTPUT POWER MEASUREMENT

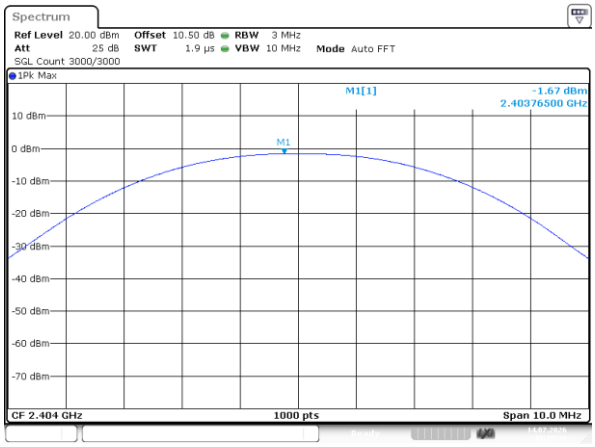
Environmental Conditions & Test Information

Test Date:	2026-07-14
Temperature:	23.4 ℃
Relative Humidity:	51 %
ATM Pressure:	100.6 kPa
Test Result:	Pass
Test Engineer:	Neil Zhou

EUT operation mode: Transmitting

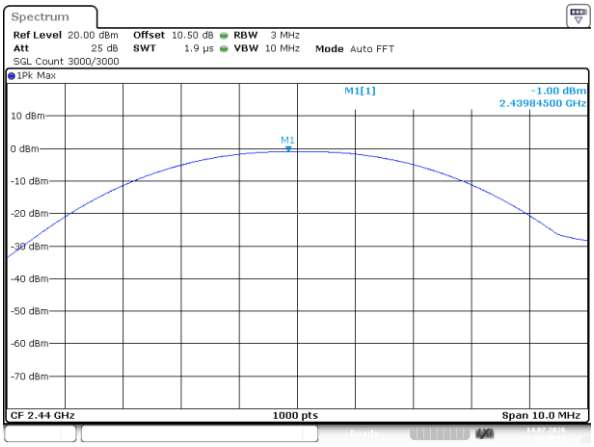
Mode	Channel	Frequency (MHz)	Result (dBm)	Limit (dBm)
SRD	Low	2404	-1.67	21
	Middle	2440	-1	
	High	2478	-0.54	

2404MHz



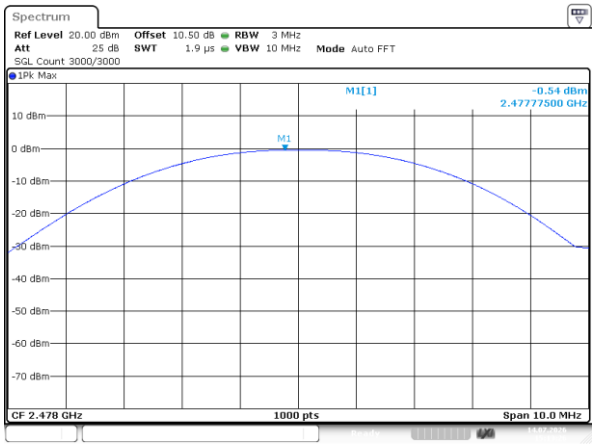
ProjectNo.:RSHA260130001 Tester:Neil Zhou
Date: 14.JUL.2026 15:15:42

2440MHz



ProjectNo.:RSHA260130001 Tester:Neil Zhou
Date: 14.JUL.2026 15:18:13

2478MHz



ProjectNo.:RSHA260130001 Tester:Neil Zhou
Date: 14.JUL.2026 15:13:27

BAND EDGES

Environmental Conditions & Test Information

Test Date:	2026-07-14
Temperature:	23.4 ℃
Relative Humidity:	51 %
ATM Pressure:	100.6 kPa
Test Result:	Pass
Test Engineer:	Neil Zhou

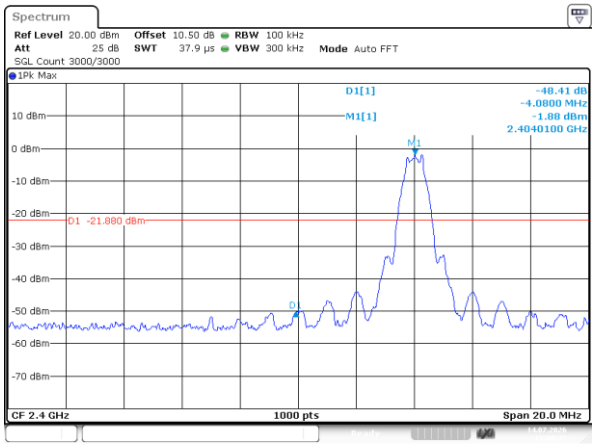
EUT operation mode: Transmitting & Hopping

Test Result: Compliant.

Mode	Channel	Frequency (MHz)	Result (dBc)	Limit (dBc)
SRD	Low	2404	48.41	20
	High	2478	49.85	
	Hopping_Lower	2404	44.81	
	Hopping_Upper	2478	44.78	

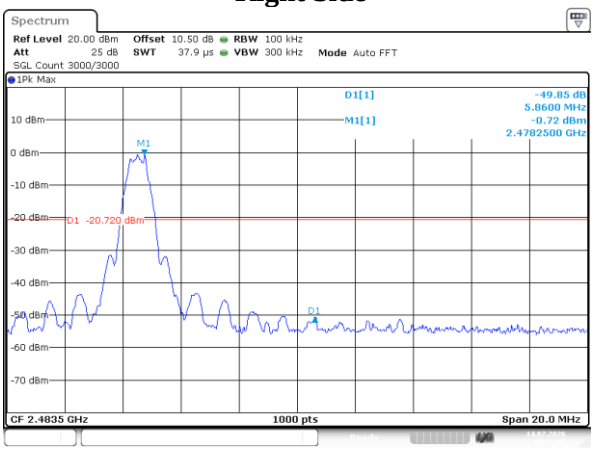
Band Edge

Left Side



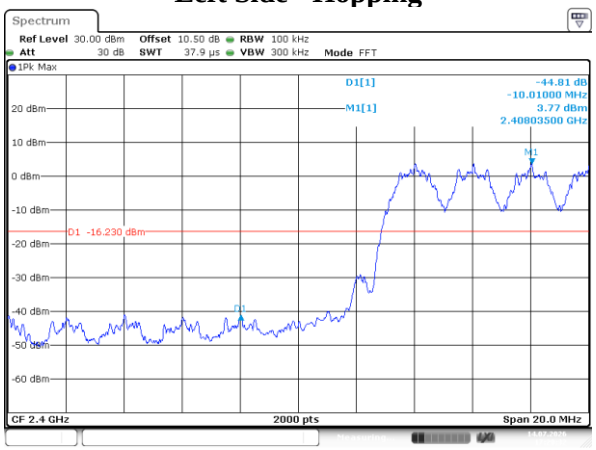
ProjectNo.:RSHA260130001 Tester:Neil Zhou
Date: 14.JUL.2026 15:08:31

Right Side



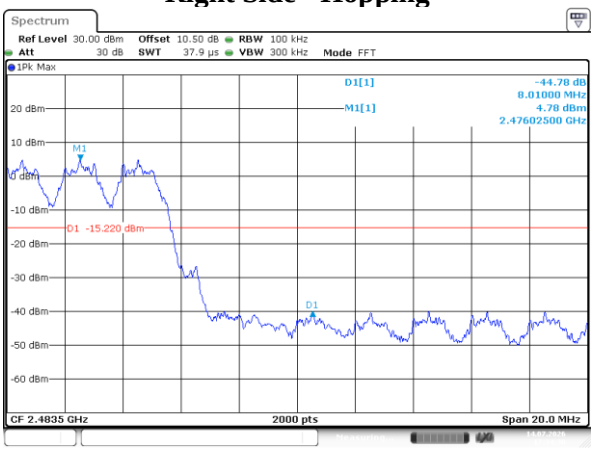
ProjectNo.:RSHA260130001 Tester:Neil Zhou
Date: 14.JUL.2026 15:11:08

Left Side - Hopping



ProjectNo.:RSHA260130001 Tester:Neil Zhou
Date: 14.JUL.2026 17:28:32

Right Side - Hopping



ProjectNo.:RSHA260130001 Tester:Neil Zhou
Date: 14.JUL.2026 17:34:30

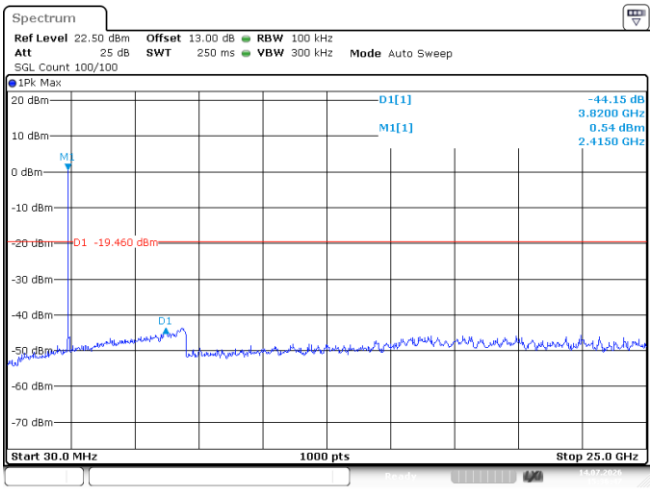
CONDUCTED SPURIOUS EMISSION

Environmental Conditions & Test Information

Test Date:	2026-07-14
Temperature:	23.4 ℃
Relative Humidity:	51 %
ATM Pressure:	100.6 kPa
Test Result:	Pass
Test Engineer:	Neil Zhou

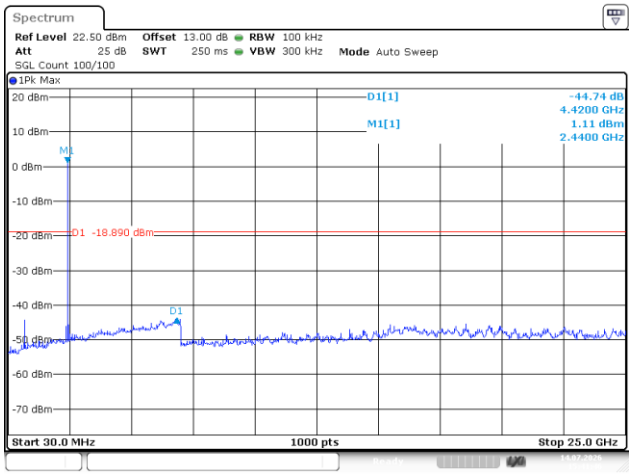
Channel	Result (dB)	Limit (dB)
Low	44.15	20
Middle	44.74	20
High	44.73	20

Low



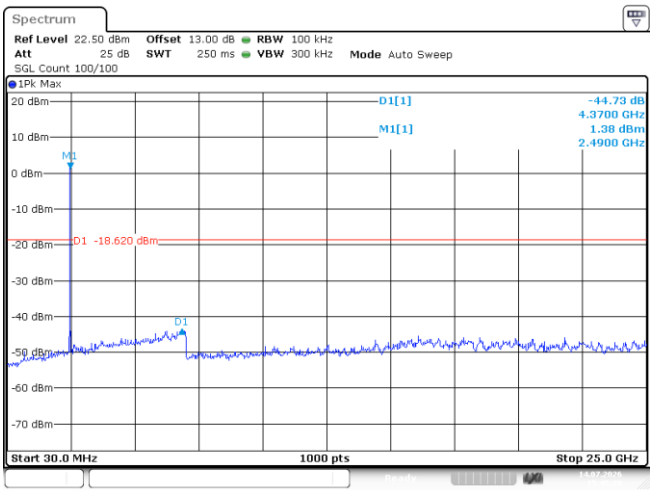
ProjectNo.:RSHA260130001 Tester:Neil Zhou
Date: 14.JUL.2026 15:36:47

Middle



ProjectNo.:RSHA260130001 Tester:Neil Zhou
Date: 14.JUL.2026 15:41:46

High



ProjectNo.:RSHA260130001 Tester:Neil Zhou
Date: 14.JUL.2026 15:45:20

EUT PHOTOGRAPHS

Please refer to the attachment EXHIBIT A - EUT EXTERNAL PHOTOGRAPHS and EXHIBIT B - EUT INTERNAL PHOTOGRAPHS.

TEST SETUP PHOTOGRAPHS

Please refer to the attachment EXHIBIT C - TEST SETUP PHOTOGRAPHS.

Declarations

1. The laboratory is not responsible for the authenticity of any information provided by the applicant. Information from the applicant that may affect test results is marked with "★".

2. The test data was only valid for the test sample(s).

3. This report is valid only with a valid digital signature. The digital signature may be available only under the Adobe software above version 7.0.

4. Otherwise required by the applicant or Product Regulations, Decision Rule in this report did not consider the uncertainty.

5. The extended uncertainty given in this report is obtained by combining the standard uncertainty times the coverage factor k=2 with the 95.45% confidence interval.

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