



中认信通

CHINA CERTIFICATION ICT CO., LTD (DONGGUAN)



TEST REPORT

Applicant: FOURSTAR GROUP INC

Address: Tefa Community, No. 2003 Xiangmei North Road Futian District Shenzhen
China

FCC ID: 2AYNN-FSG036372A

IC: 35448-FSG036372A

HVIN: 11036372A

Product Name: WIRELESS LIP PHONE

Standard(s): 47 CFR Part 15, Subpart C (15.247)

RSS-247 Issue 4, July 24, 2025

RSS-Gen, Issue 5, February 2021 Amendment 2

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

KDB 558074 D01 15.247 Meas Guidance v05r02

The above device has been tested and found compliant with the requirement of the relative standards
by China Certification ICT Co., Ltd (Dongguan)

Report Number: 2603W28862E-RF-00A

Date Of Issue: 2026/9/9

Reviewed By: Calvin Chen

Title: RF Test Supervisor

Approved By: Sun Zhong

Title: Manager

Test Laboratory: China Certification ICT Co., Ltd (Dongguan)

Room 101 & 201, Building 2, 256 Pingdong Road, Dalang Town,
Dongguan City, Guangdong, China.

Tel: +86-769-83085888

www.ccttt.com.cn

Test Facility

The Test site used by China Certification ICT Co., Ltd (Dongguan) to collect test data is located on the Room 101 & 201, Building 2, 256 Pingdong Road, Dalang Town, Dongguan City, Guangdong, 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, FCC Registration No.: 442868, the FCC Designation No.: CN1314.

The lab has been recognized by Innovation, Science and Economic Development Canada to test to Canadian radio equipment requirements, the CAB identifier: CN0123.

Declarations

China Certification ICT Co., Ltd (Dongguan) is not responsible for the authenticity of any test data provided by the applicant. Data included from the applicant that may affect test results are marked with a triangle symbol “▲”. Customer model name, addresses, names, trademarks etc. are not considered data.

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested.

This report cannot be reproduced except in full, without prior written approval of the Company.

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.

This report may contain data that are not covered by the accreditation scope and shall be marked with an asterisk “★”.

Each test item follows the test standard(s) without deviation.

CONTENTS

DOCUMENT REVISION HISTORY	5
1. GENERAL INFORMATION	6
1.1 PRODUCT DESCRIPTION FOR EQUIPMENT UNDER TEST (EUT)	6
1.2 OPERATION FREQUENCY DETAIL.....	6
1.3 ANTENNA INFORMATION DETAIL ^	6
1.4 ACCESSORY INFORMATION.....	7
1.5 DESCRIPTION OF TEST CONFIGURATION.....	7
1.5.1 EUT Operation Condition	7
1.5.2 Support Equipment List and Details	7
1.5.3 Support Cable List and Details	7
1.5.4 Block Diagram of Test Setup.....	8
1.6 MEASUREMENT UNCERTAINTY	9
2. SUMMARY OF TEST RESULTS	10
3. REQUIREMENTS AND TEST PROCEDURES	11
3.1 AC LINE CONDUCTED EMISSIONS.....	11
3.1.1 Applicable Standard.....	11
3.1.2 EUT Setup.....	13
3.1.3 EMI Test Receiver Setup	13
3.1.4 Test Procedure	13
3.1.5 Corrected Amplitude & Margin Calculation.....	14
3.2 RADIATION SPURIOUS EMISSIONS	15
3.2.1 Applicable Standard.....	15
3.2.2 EUT Setup.....	15
3.2.3 EMI Test Receiver & Spectrum Analyzer Setup	17
3.2.4 Test Procedure	17
3.2.5 Corrected Amplitude & Margin Calculation.....	17
3.3 20 DB EMISSION BANDWIDTH	19
3.3.1 Applicable Standard.....	19
3.3.2 EUT Setup.....	19
3.3.3 Test Procedure	19
3.4 99% OCCUPIED BANDWIDTH.....	21
3.4.1 Applicable Standard.....	21
3.4.2 EUT Setup.....	21
3.4.3 Test Procedure	21
3.5 CHANNEL SEPARATION	23
3.5.1 Applicable Standard.....	23
3.5.2 EUT Setup.....	23
3.5.3 Test Procedure	23
3.6 NUMBER OF HOPPING FREQUENCY	24
3.6.1 Applicable Standard.....	24
3.6.2 EUT Setup.....	24

3.6.3 Test Procedure	24
3.7 TIME OF OCCUPANCY (DWELL TIME)	25
3.7.1 Applicable Standard.....	25
3.7.2 EUT Setup.....	25
3.7.3 Test Procedure	25
3.8 MAXIMUM CONDUCTED OUTPUT POWER.....	27
3.8.1 Applicable Standard.....	27
3.8.2 EUT Setup.....	27
3.8.3 Test Procedure	27
3.9 CONDUCTED SPURIOUS EMISSION.....	29
3.9.1 Applicable Standard.....	29
3.9.2 EUT Setup.....	29
3.9.3 Test Procedure	29
3.10 ANTENNA REQUIREMENT.....	31
3.10.1 Applicable Standard.....	31
3.10.2 Judgment.....	31
4. Test DATA AND RESULTS	32
4.1 AC LINE CONDUCTED EMISSIONS.....	32
4.2 RADIATION SPURIOUS EMISSIONS.....	35
4.3 20 dB EMISSION BANDWIDTH	74
4.4 99% OCCUPIED BANDWIDTH.....	77
4.5 CHANNEL SEPARATION	80
4.6 NUMBER OF HOPPING FREQUENCY.....	82
4.7 TIME OF OCCUPANCY (DWELL TIME).....	83
4.8 MAXIMUM CONDUCTED OUTPUT POWER.....	87
4.9 CONDUCTED SPURIOUS EMISSION.....	90
5. RF EXPOSURE EVALUATION	96
5.1 SAR EVALUATION.....	96
5.2 EXEMPTION LIMITS FOR ROUTINE EVALUATION – SAR EVALUATION	97
6. EUT PHOTOGRAPHS	98
7. TEST SETUP PHOTOGRAPHS	99

DOCUMENT REVISION HISTORY

Revision Number	Report Number	Description of Revision	Date of Revision
1.0	2603W28862E-RF-00A	Original Report	2026/9/9

1. GENERAL INFORMATION

1.1 Product Description for Equipment under Test (EUT)

EUT Name:	WIRELESS LIP PHONE
EUT Model:	11036372A
Operation Frequency:	2402-2480 MHz
Maximum Peak Output Power (Conducted):	3.01dBm
Modulation Type:	GFSK, $\pi/4$ -DQPSK, 8DPSK
Rated Input Voltage:	5V from USB
Sample Number:	3SCI-2 (for RF Conducted Test) 3SCI-4 (for Conducted Emissions Test and Radiated Spurious Emissions Test)
EUT Received Date:	2026/8/21
EUT Received Status:	Good

1.2 Operation Frequency Detail

Channel	Frequency (MHz)	Channel	Frequency (MHz)
0	2402	40	2442
1	2403	41	2443
...	...	...	...
...	...	...	...
...	...	78	2480
39	2441		

Per section 15.31(m), the below frequencies were performed the test as below:

Test Channel	Frequency (MHz)
Lowest	2402
Middle	2441
Highest	2480

1.3 Antenna Information Detail[^]

Antenna Type	Input Impedance (Ohm)	Frequency Range (MHz)	Antenna Gain (dBi)
PCB Antenna	50	2400-2480	-0.58

The Method of §15.203 Compliance:

- ☒ Antenna was permanently attached to the unit.
☐ Antenna use a unique type of connector to attach to the EUT.
☐ Unit was professionally installed, and installer shall be responsible for verifying that the correct antenna is employed with the unit.

1.4 Accessory Information

Accessory Description	Manufacturer	Model	Parameters
USB Cable	/	/	Unshielded without ferrite core, 0.4m

1.5 Description of Test Configuration

1.5.1 EUT Operation Condition

EUT Operation Mode:	The system was configured for testing in Engineering Mode, which was provided by the manufacturer.			
Equipment Modifications:	No			
EUT Exercise Software:	FCC Assist.exe			
The software was provided by manufacturer. The maximum power was configured as below, that was provided by the manufacturer ▲ :				
Test Modes	Packet Type	Power Level Setting		
		Lowest Channel	Middle Channel	Highest Channel
BDR Mode (GFSK)	DH1	10	10	10
	DH3	10	10	10
	DH5	10	10	10
2EDR Mode ($\pi/4$ -DQPSK)	2DH1	10	10	10
	2DH3	10	10	10
	2DH5	10	10	10
3EDR Mode (8DPSK)	3DH1	10	10	10
	3DH3	10	10	10
	3DH5	10	10	10

1.5.2 Support Equipment List and Details

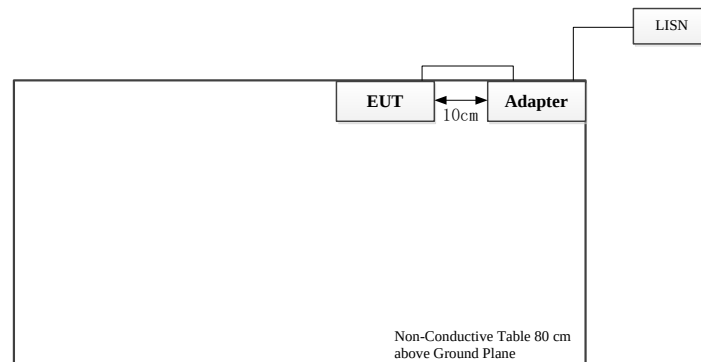
Manufacturer	Description	Model	Serial Number
Fangxin	Adapter	FX2U-050200U	AD220930001

1.5.3 Support Cable List and Details

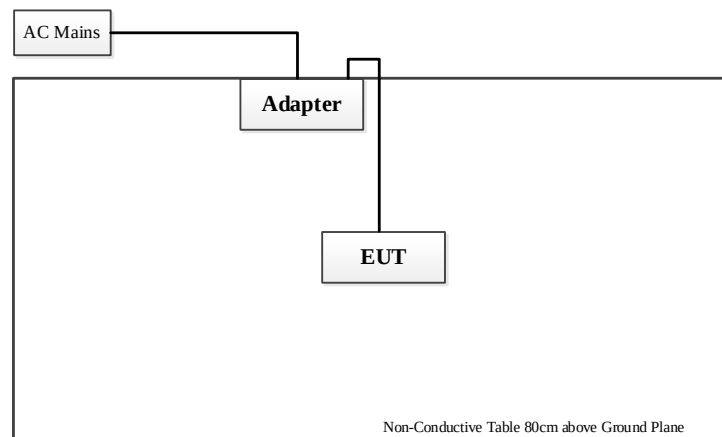
Cable Description	Shielding Type	Ferrite Core	Length (m)	From Port	To
USB Cable	No	No	0.4	Adapter/ USB Extension Cable	EUT
USB Extension Cable	No	No	2.0	Adapter	USB Cable

1.5.4 Block Diagram of Test Setup

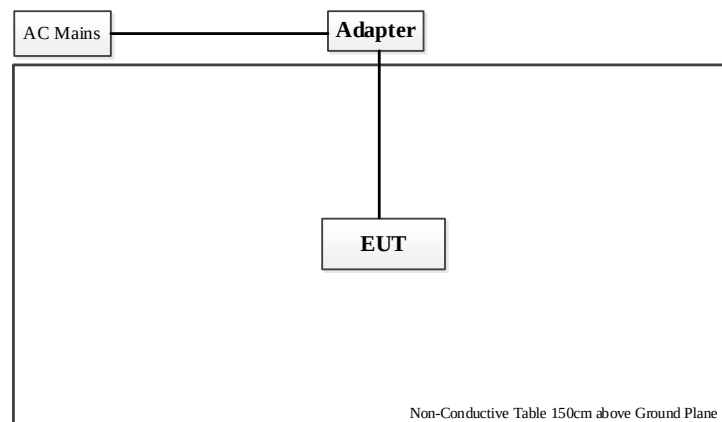
Conducted Emissions:



Radiation Spurious Emissions for Below 1GHz:



Radiation Spurious Emissions for Above 1GHz:



1.6 Measurement Uncertainty

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

Parameter	Measurement Uncertainty
Occupied Channel Bandwidth	$\pm 5\%$
RF Output Power, Conducted	$\pm 0.55\text{ dB}$
Power Spectral Density, Conducted	$\pm 0.55\text{ dB}$
Unwanted Emissions, Radiated	9kHz~30MHz: 3.06dB, 30MHz~1GHz: 6.13 dB, 1GHz~6GHz: 4.79 dB, 6GHz~18GHz: 4.63 dB, 18GHz~26.5GHz: 4.79 dB, 26.5GHz~40GHz: 4.63 dB
Unwanted Emissions, Conducted	$\pm 2.47\text{ dB}$
Temperature	$\pm 1^{\circ}\text{C}$
Humidity	$\pm 5\%$
DC And Low Frequency Voltages	$\pm 0.4\%$
Duty Cycle	1%
AC Power Lines Conducted Emission	2.83 dB (150 kHz to 30 MHz)

2. SUMMARY OF TEST RESULTS

Standard(s) Section	Description of Test	Result
FCC §15.207(a) RSS-Gen Clause 8.8	AC Line Conducted Emissions	Compliant
FCC §15.205, §15.209, §15.247(d) RSS-Gen Clause 8.10 RSS-247 Clause 6.6	Radiated Spurious Emissions	Compliant
FCC §15.247(a)(1) RSS-247 Clause 6.2.3.1 a)	20 dB Emission Bandwidth	Compliant
RSS-Gen Clause 6.7	99% Occupied Bandwidth	Compliant
FCC §15.247(a)(1) RSS-247 Clause 6.2.3.1 a)	Channel Separation	Compliant
FCC §15.247(a)(1)(iii) RSS-247 Clause 6.2.3.1 b)	Number Of Hopping Frequency	Compliant
FCC §15.247(a)(1)(iii) RSS-247 Clause 6.2.3.1 b)	Time Of Occupancy (Dwell Time)	Compliant
FCC §15.247(b)(1) RSS-247 Clause 6.2.3.2	Maximum Conducted Output Power	Compliant
FCC §15.247(d) RSS-247 Clause 6.6	Conducted Spurious Emission	Compliant
FCC §15.203 RSS-Gen Clause 6.8	Antenna Requirement	Compliant
§15.247 (i) & §1.1310 & §2.1093	SAR Evaluation	Compliant
RSS-102 Clause 6.3	Exemption Limits for Routine Evaluation- SAR Evaluation	Compliant

3. REQUIREMENTS AND TEST PROCEDURES

3.1 AC Line Conducted Emissions

3.1.1 Applicable Standard

FCC §15.207(a).

- (a) Except as shown in paragraphs (b) and (c) of this section, for an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies, within the band 150 kHz to 30 MHz, shall not exceed the limits in the following table, as measured using a 50 μ H/50 ohms line impedance stabilization network (LISN). Compliance with the provisions of this paragraph shall be based on the measurement of the radio frequency voltage between each power line and ground at the power terminal. The lower limit applies at the boundary between the frequency ranges.

Frequency of emission (MHz)	Conducted limit (dB μ V)	
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

*Decreases with the logarithm of the frequency.

- (b) The limit shown in paragraph (a) of this section shall not apply to carrier current systems operating as intentional radiators on frequencies below 30 MHz. In lieu thereof, these carrier current systems shall be subject to the following standards:
- (1) For carrier current system containing their fundamental emission within the frequency band 535-1705 kHz and intended to be received using a standard AM broadcast receiver: no limit on conducted emissions.
 - (2) For all other carrier current systems: 1000 μ V within the frequency band 535-1705 kHz, as measured using a 50 μ H/50 ohms LISN.
 - (3) Carrier current systems operating below 30 MHz are also subject to the radiated emission limits in §15.205, §15.209, §15.221, §15.223, or §15.227, as appropriate.
- (c) Measurements to demonstrate compliance with the conducted limits are not required for devices which only employ battery power for operation and which do not operate from the AC power lines or contain provisions for operation while connected to the AC power lines. Devices that include, or make provisions for, the use of battery chargers which permit operating while charging, AC adapters or battery eliminators or that connect to the AC power lines indirectly, obtaining their power through another device which is connected to the AC power lines, shall be tested to demonstrate compliance with the conducted limits.

RSS-Gen Clause 8.8

Unless stated otherwise in the applicable RSS, for radio apparatus that are designed to be connected to the public utility AC power network, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the range 150 kHz to 30 MHz shall not exceed the limits in table 4, as measured using a 50 μ H / 50 Ω line impedance stabilization network. This requirement applies for the radio frequency voltage measured between each power line and the ground terminal of each AC power-line mains cable of the EUT.

For an EUT that connects to the AC power lines indirectly, through another device, the requirement for compliance with the limits in table 4 shall apply at the terminals of the AC power-line mains cable of a representative support device, while it provides power to the EUT. The lower limit applies at the boundary between the frequency ranges. The device used to power the EUT shall be representative of typical applications.

Table 4 – AC power-line conducted emissions limits

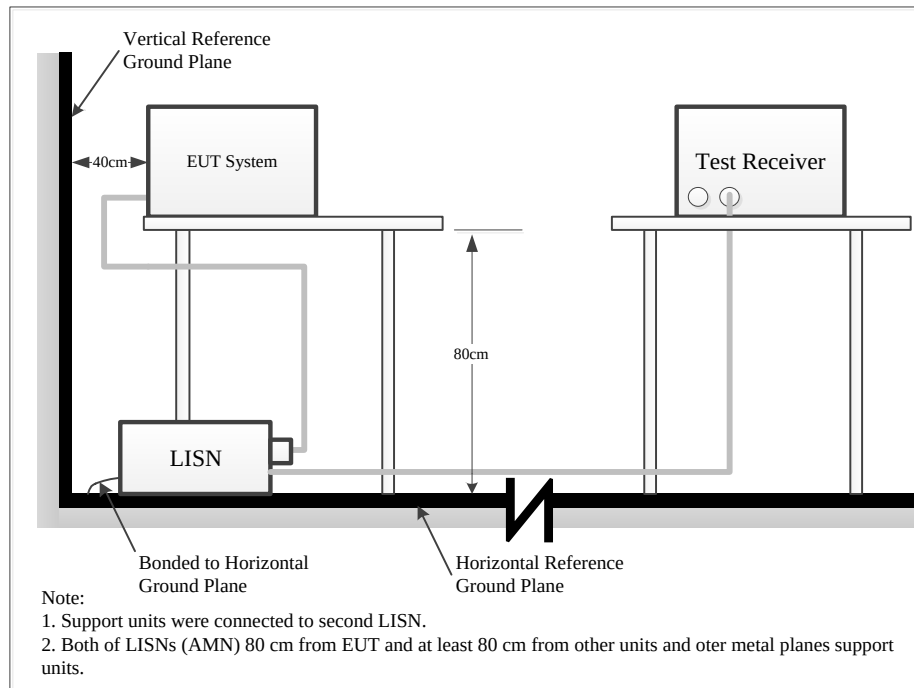
Frequency (MHz)	Conducted limit (dB μ V)	
	Quasi-peak	Average
0.15 - 0.5	66 to 56 ¹	56 to 46 ¹
0.5 – 5	56	46
5 – 30	60	50

Note 1: The level decreases linearly with the logarithm of the frequency.

For an EUT with a permanent or detachable antenna operating between 150 kHz and 30 MHz, the AC power-line conducted emissions must be measured using the following configurations:

- (a) Perform the AC power-line conducted emissions test with the antenna connected to determine compliance with the limits of table 4 outside the transmitter's fundamental emission band.
- (b) Retest with a dummy load instead of the antenna to determine compliance with the limits of table 4 within the transmitter's fundamental emission band. For a detachable antenna, remove the antenna and connect a suitable dummy load to the antenna connector. For a permanent antenna, remove the antenna and terminate the RF output with a dummy load or network that simulates the antenna in the fundamental frequency band.

3.1.2 EUT Setup



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

The spacing between the peripherals was 10 cm.

The adapter or EUT was connected to the main LISN with a 120 V/60 Hz AC power source.

3.1.3 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	IF B/W
150 kHz – 30 MHz	9 kHz

3.1.4 Test Procedure

The frequency and amplitude of the six highest ac power-line conducted emissions relative to the limit, measured over all the current-carrying conductors of the EUT power cords, and the operating frequency or frequency to which the EUT is tuned (if appropriate), should be reported, unless such emissions are more than 20 dB below the limit. AC power-line conducted emissions measurements are to be separately carried out only on each of the phase (“hot”) line(s) and (if used) on the neutral line(s), but not on the ground [protective earth] line(s). If less than six emission frequencies are within 20 dB of the limit, then the noise level of the measuring instrument at representative frequencies should be reported. The specific conductor of the power-line cord for each of the reported emissions should be identified. Measure the six highest emissions with respect to the limit on each current-carrying conductor of each power cord associated with

the EUT (but not the power cords of associated or peripheral equipment that are part of the test configuration). Then, report the six highest emissions with respect to the limit from among all the measurements identifying the frequency and specific current-carrying conductor identified with the emission. The six highest emissions should be reported for each of the current-carrying conductors, or the six highest emissions may be reported over all the current-carrying conductors.

3.1.5 Corrected Amplitude & Margin Calculation

The basic equation is as follows:

Result = Reading + Factor

Factor=attenuation caused by cable loss + voltage division factor of AMN

The “**Margin**” column of the following data tables indicates the degree of compliance within the applicable limit. The equation for margin calculation is as follows:

Margin = Limit – Result

3.2 Radiation Spurious Emissions

3.2.1 Applicable Standard

FCC §15.247 (d)

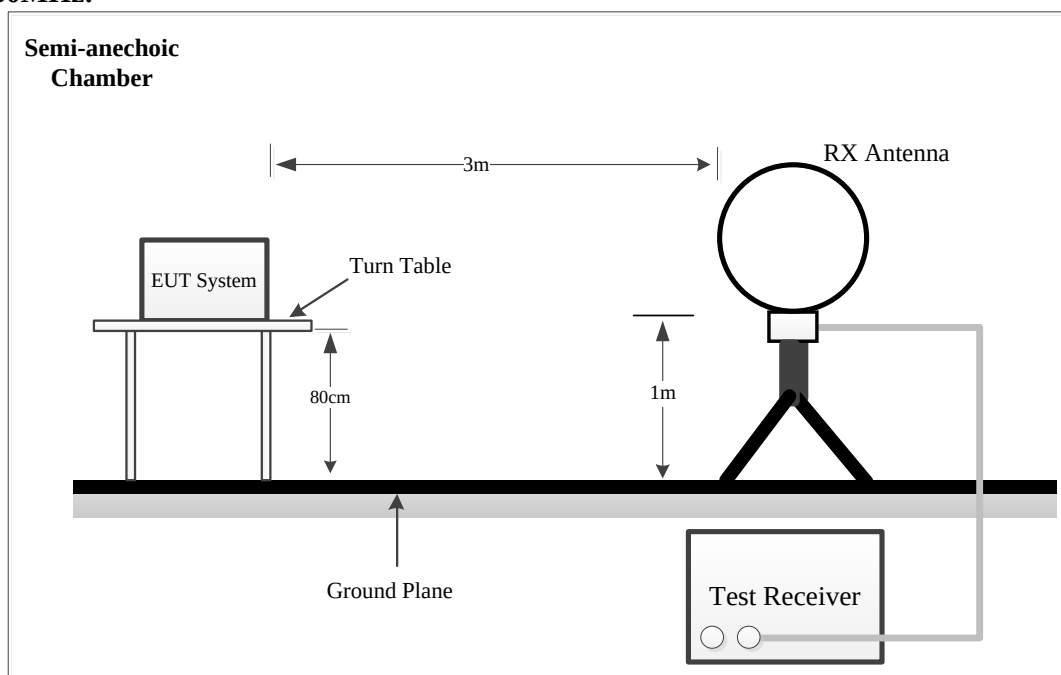
In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the 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)).

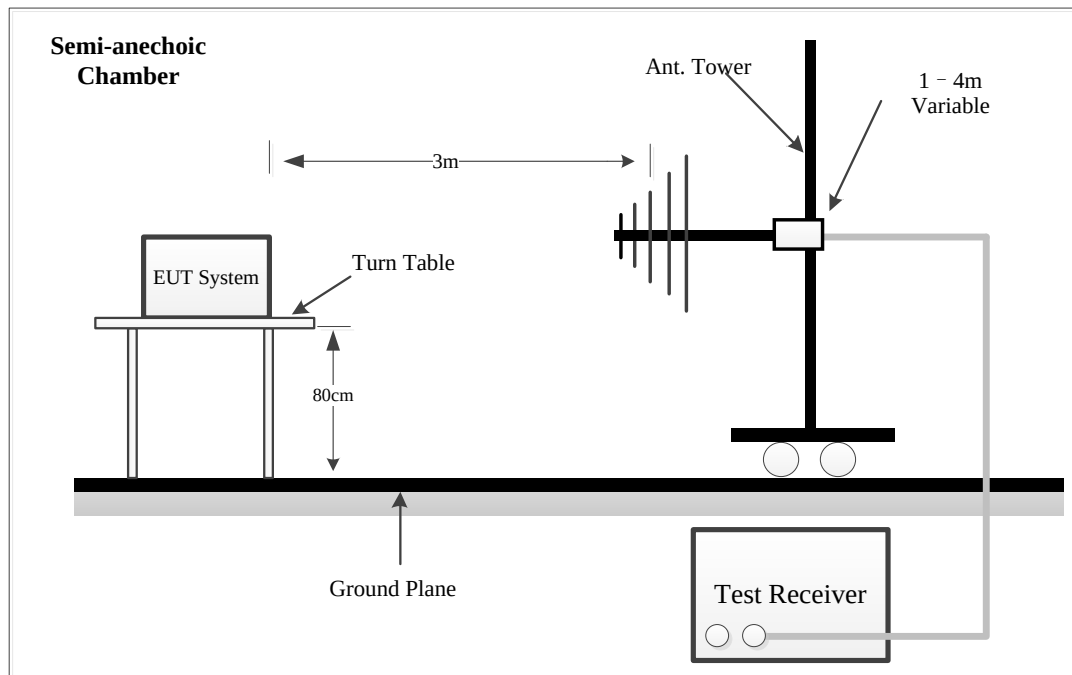
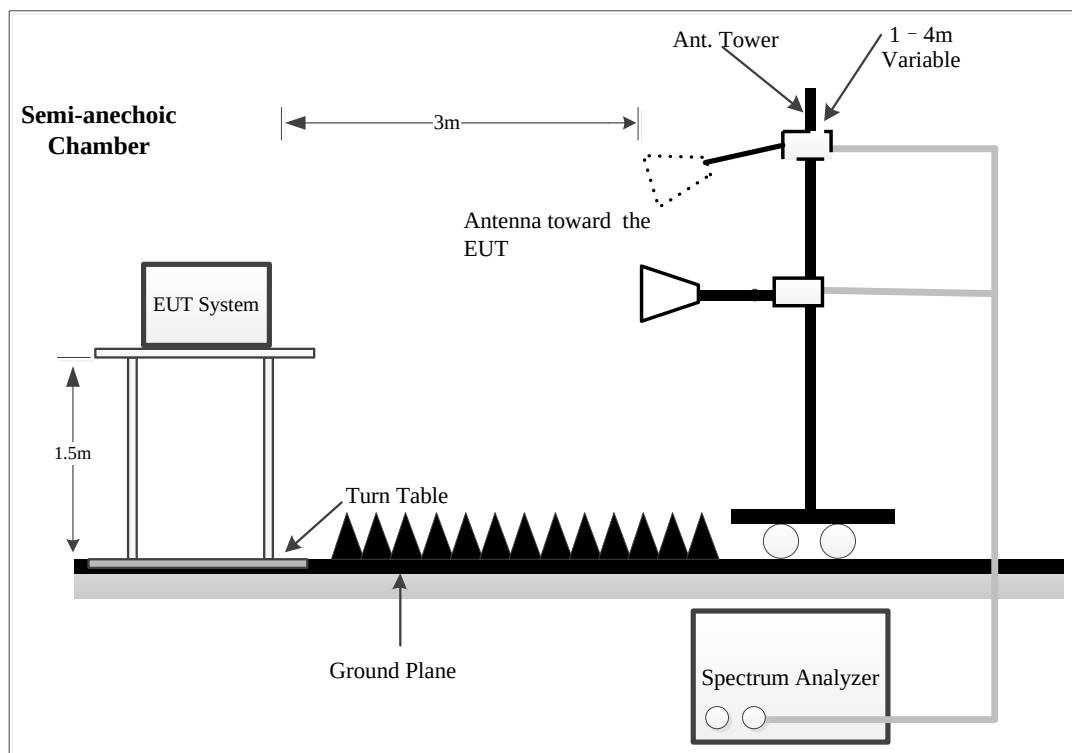
RSS-247 Clause 6.6

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum device, digitally modulated device, or hybrid system is operating, the RF power that is produced shall be at least 20 dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power – based on either an RF conducted or a radiated measurement –provided that the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of root-mean-square averaging over a time interval, as permitted under section 6.3.2, the attenuation required shall be 30 dB instead of 20 dB. Attenuation below the general field strength limits specified in RSS-Gen is not required.

3.2.2 EUT Setup

9kHz-30MHz:



30MHz~1GHz:**1-25GHz:**

The radiated emissions were performed in the semi-anechoic chamber, using the setup accordance with the ANSI C63.10-2020. The specification used was the FCC 15.209, and FCC 15.247, RSS-247, RSS-Gen limits.

For 9kHz-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.

3.2.3 EMI Test Receiver & Spectrum Analyzer Setup

During the radiated emission test, the EMI test receiver & Spectrum Analyzer Setup were set with the following configurations:

9kHz-1000MHz:

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

Above 1GHz:

Pre-scan:

Frequency Range	Measurement	RBW	Video B/W	Detector
Above 1 GHz	Peak	1MHz	3 MHz	PK
	AV	1MHz	5kHz	PK

Final measurement for emission identified during the pre-scan:

Frequency Range	Measurement	RBW	Video B/W	Detector
Above 1 GHz	Peak	1MHz	3 MHz	PK
	AV	1MHz	10 Hz	PK

3.2.4 Test Procedure

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

Data was required in Quasi-peak measurement for frequency range of 9 kHz-1 GHz except 9-90 kHz, 110-490 kHz, employing an average measurement, peak and Average measurement for frequencies above 1 GHz.

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

All emissions under the average limit and under the noise floor have not recorded in the report.

3.2.5 Corrected Amplitude & Margin Calculation

$$E_{Log} = 20 \times \log_{10}(E_{Linear})$$

E_{Linear} is the field strength of the emission, in $\mu V/m$

E_{Log} is the field strength of the emission, in $dB\mu V/m$

For 9kHz-30MHz test, test distance is 3m, extrapolation limit shall be calculated using Equation:

$$E_{\text{limit-measure}} = E_{\text{limit-Standard}} + 40 \times \log_{10} (d_{\text{standard}}/d_{\text{measure}})$$

The basic equation is as follows:

$$\text{Result} = \text{Reading} + \text{Factor}$$

The “**Margin**” column of the following data tables indicates the degree of compliance within the applicable limit. The equation for margin calculation is as follows:

$$\text{Margin} = \text{Limit} - \text{Result}$$

For the spurious emission below 30MHz, the limit was convert from dBμA/m to dBμV/m by adding 51.5 dB.

3.3 20 dB Emission Bandwidth

3.3.1 Applicable Standard

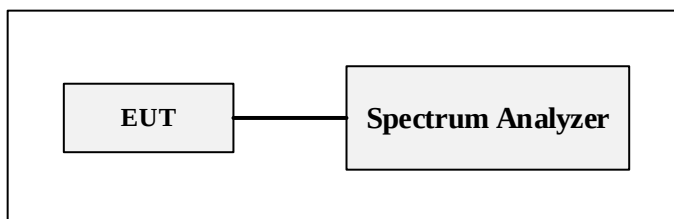
FCC §15.247 (a)(1)

Frequency hopping systems shall have hopping 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. The system shall hop to channel frequencies that are selected at the system hopping rate from a pseudo randomly ordered list of hopping frequencies. Each frequency must be used equally on the average by each transmitter. The system receivers shall have input bandwidths that match the hopping channel bandwidths of their corresponding transmitters and shall shift frequencies in synchronization with the transmitted signals.

RSS-247 Clause 6.2.3.1 a

FHS operating in the band 2400-2483.5MHz 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 that the systems operate with an output power no greater than 0.125 W.

3.3.2 EUT Setup



3.3.3 Test Procedure

According to ANSI C63.10-2020 Section 6.9.2

- a) The spectrum analyzer center frequency is set to the nominal EUT channel center frequency. The span range for the EMI receiver or spectrum analyzer shall be between two times and five times the OBW.
- b) The nominal IF filter bandwidth (3 dB RBW) shall be in the range of 1% to 5% of the OBW and video bandwidth (VBW) shall be approximately three times RBW, unless otherwise specified by the applicable requirement.
- c) Set the reference level of the instrument as required, keeping the signal from exceeding the maximum input mixer level for linear operation. In general, the peak of the spectral envelope shall be more than $[10 \log (\text{OBW}/\text{RBW})]$ below the reference level. Specific guidance is given in 4.1.6.2.
- d) Steps a) through c) might require iteration to adjust within the specified tolerances.
- e) The dynamic range of the instrument at the selected RBW shall be more than 10 dB below the target “-xx dB down” requirement; that is, if the requirement calls for measuring the -20 dB OBW, the

instrument noise floor at the selected RBW shall be at least 30 dB below the reference value.

- f) Set detection mode to peak and trace mode to max hold.
- g) Determine the reference value: Set the EUT to transmit an unmodulated carrier or modulated signal, as applicable. Allow the trace to stabilize. Set the spectrum analyzer marker to the highest level of the displayed trace (this is the reference value).
- h) Determine the “-xx dB down amplitude” using [(reference value) - xx]. Alternatively, this calculation may be made by using the marker-delta function of the instrument.
- i) If the reference value is determined by an unmodulated carrier, then turn the EUT modulation ON, and either clear the existing trace or start a new trace on the spectrum analyzer and allow the new trace to stabilize. Otherwise, the trace from step g) shall be used for step j).
- j) Place two markers, one at the lowest frequency and the other at the highest frequency of the envelope of the spectral display, such that each marker is at or slightly below the “-xx dB down amplitude” determined in step h). If a marker is below this “-xx dB down amplitude” value, then it shall be as close as possible to this value. The occupied bandwidth is the frequency difference between the two markers. Alternatively, set a marker at the lowest frequency of the envelope of the spectral display, such that the marker is at or slightly below the “-xx dB down amplitude” determined in step h). Reset the marker-delta function and move the marker to the other side of the emission until the delta marker amplitude is at the same level as the reference marker amplitude. The marker-delta frequency reading at this point is the specified emission bandwidth.
- k) The occupied bandwidth shall be reported by providing plot(s) of the measuring instrument display; the plot axes and the scale units per division shall be clearly labeled. Tabular data may be reported in addition to the plot(s).

3.4 99% Occupied Bandwidth

3.4.1 Applicable Standard

RSS-Gen Clause 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 transmitter 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.

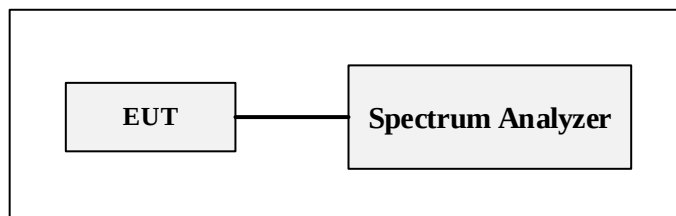
The detector of the spectrum analyzer shall be set to “Sample”. However, a peak, or peak hold, may be used in place of the sampling detector since this usually produces a wider bandwidth than the actual bandwidth (worst-case measurement). Use of a peak hold (or “Max Hold”) may be necessary to determine 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).

3.4.2 EUT Setup



3.4.3 Test Procedure

According to ANSI C63.10-2020 Section 6.9.3

The occupied bandwidth is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers are each equal to 0.5% of the total mean power of the given emission. The following procedure shall be used for measuring 99% power bandwidth:

- a) The instrument center frequency is set to the nominal EUT channel center frequency. The frequency span for the spectrum analyzer shall be between 1.5 times and 5.0 times the OBW.
- b) The nominal IF filter bandwidth (3 dB RBW) shall be in the range of 1% to 5% of the OBW, and VBW shall be approximately three times the RBW, unless otherwise specified by the applicable requirement.
- c) Set the reference level of the instrument as required, keeping the signal from exceeding the maximum input mixer level for linear operation. In general, the peak of the spectral envelope shall be more than $[10 \log (OBW/RBW)]$ below the reference level. Specific guidance is given in 4.1.6.2.
- d) Step a) through step c) might require iteration to adjust within the specified range.
- e) Video averaging is not permitted. Where practical, a sample detection and single sweep mode shall be used. Otherwise, peak detection and max hold mode (until the trace stabilizes) shall be used.
- f) Use the 99% power bandwidth function of the instrument (if available) and report the measured bandwidth.
- g) If the instrument does not have a 99% power bandwidth function, then the trace data points are recovered and directly summed in linear power 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; that frequency is recorded as the lower frequency. The process is repeated until 99.5% of the total is reached; that frequency is recorded as the upper frequency. The 99% power bandwidth is the difference between these two frequencies.
- h) The occupied bandwidth shall be reported by providing plot(s) of the measuring instrument display; the plot axes and the scale units per division shall be clearly labeled. Tabular data may be reported in addition to the plot(s).

3.5 Channel Separation

3.5.1 Applicable Standard

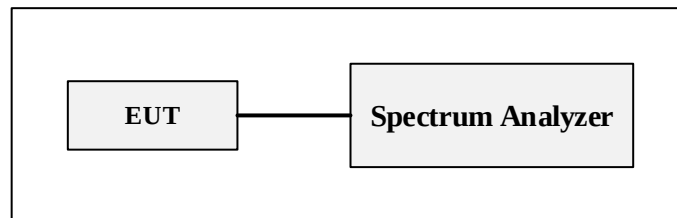
FCC §15.247 (a)(1)

Frequency hopping systems shall have hopping 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. The system shall hop to channel frequencies that are selected at the system hopping rate from a pseudo randomly ordered list of hopping frequencies. Each frequency must be used equally on the average by each transmitter. The system receivers shall have input bandwidths that match the hopping channel bandwidths of their corresponding transmitters and shall shift frequencies in synchronization with the transmitted signals.

RSS-247 Clause 6.2.3.1 a

FHS operating in the band 2400-2483.5MHz 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 that the systems operate with an output power no greater than 0.125 W.

3.5.2 EUT Setup



3.5.3 Test Procedure

According to ANSI C63.10-2020 Section 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) $\geq 1/10^{\text{th}}$ the RBW.
- d) Sweep: No faster than coupled (auto) time.
- 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. Compliance of an EUT with the appropriate regulatory limit shall be determined. A plot of the data shall be included in the test report.

Where the device shares the same channel plan (carrier frequencies and number of channels) across multiple data rates or modulation schemes then the carrier separation need only be measured for one of those modulation schemes or data rates.

3.6 Number Of Hopping Frequency

3.6.1 Applicable Standard

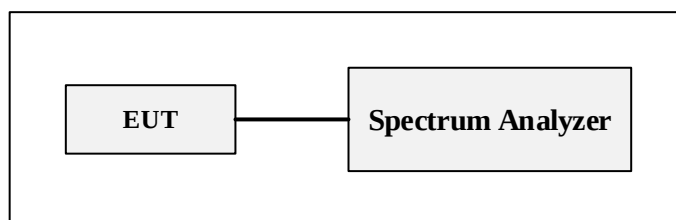
FCC §15.247 (a)(1)(iii)

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.

RSS-247 Clause 6.2.3.1 b

FHS operating in the band 2400-2483.5 MHz shall use at least 15 hopping channels. The average time of occupancy on any channel shall not be greater than 0.4 s within a period of 0.4 s, multiplied by the number of hopping channels employed. Transmissions on particular hopping frequencies may be avoided or suppressed provided that at least 15 hopping channels are used.

3.6.2 EUT Setup



3.6.3 Test Procedure

According to ANSI C63.10-2020 Section 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 $\geq 1/10^{\text{th}}$ the RBW.
- d) Sweep: No faster than coupled (auto) time.
- 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. Compliance of an EUT with the appropriate regulatory limit shall be determined for the number of hopping channels. A spectral plot of the data shall be included in the test report.

Where the device shares the same channel plan (carrier frequencies and number of channels) across multiple data rates or modulation schemes then the number of channels need only be measured for one of those modulation schemes or data rates.

3.7 Time Of Occupancy (Dwell Time)

3.7.1 Applicable Standard

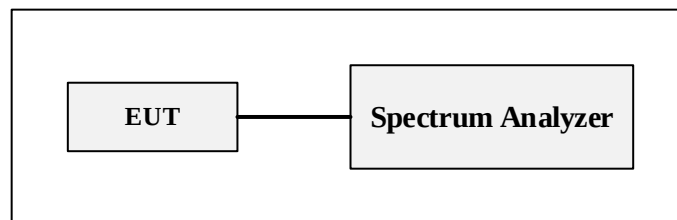
FCC §15.247 (a)(1)(iii)

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.

RSS-247 Clause 6.2.3.1 b

FHS operating in the band 2400-2483.5 MHz shall use at least 15 hopping channels. The average time of occupancy on any channel shall not be greater than 0.4 s within a period of 0.4 s, multiplied by the number of hopping channels employed. Transmissions on particular hopping frequencies may be avoided or suppressed provided that at least 15 hopping channels are used.

3.7.2 EUT Setup



3.7.3 Test Procedure

According to ANSI C63.10-2020 Section 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 $\leq$ channel spacing and where possible RBW should be set $\gg 1 / T$, where T is the expected transmission time per hop.
- c) Sweep time: Set so that the start of the first transmission and end of the last transmission for the hop are clearly captured. Setting the sweep time to be slightly longer than the hopping period per channel (hopping period = $1/\text{hopping rate}$) should achieve this.
- d) Use a video trigger, where possible with a trigger delay, so that the start of the transmission is clearly observed. The trigger level might need adjustment to reduce the chance of triggering when the system hops on an adjacent channel.
- e) Detector function: Peak.
- f) Trace: Clear-write, single sweep.
- g) Place markers at the start of the first transmission on the channel and at the end of the last transmission. The dwell time per hop is the time between these two markers.

To determine the number of hops on a channel in the regulatory observation period repeat the measurement using a longer sweep time. When the device uses a single hopping sequence the period of measurement should be sufficient to capture at least 2 hops. When the device uses a dynamic hopping sequence, or the sequence varies, the period of measurement may need to capture multiple hops to better determine the average time of occupancy. Count the number of hops on the channel across the sweep time.

The average number of hops on the same channel within the regulatory observation period is calculated from the number of hops on the channel divided by the spectrum analyzer sweep time multiplied by the regulatory observation period. For example, if three hops are counted with an analyzer sweep time of 500 ms and the regulatory observation period is 10 s, then the number of hops in that ten seconds is $3 / 0.5 \times 10$, or 60 hops.

The average time of occupancy is calculated by multiplying the dwell time per hop by the number of hops in the observation period.

Where the device shares the same hopping algorithms (dwell time, channel selection) across multiple data rates or modulation schemes then the time of occupancy need only be measured for one of those modulation schemes or data rates. If the dwell time value varies with different modes of operation (data rate, modulation format, number of hopping channels, etc.), then repeat this test for each variation in dwell time.

Spectral plots of the channel occupancy shall be included in the report.

3.8 Maximum Conducted Output Power

3.8.1 Applicable Standard

FCC §15.247 (b)(1)

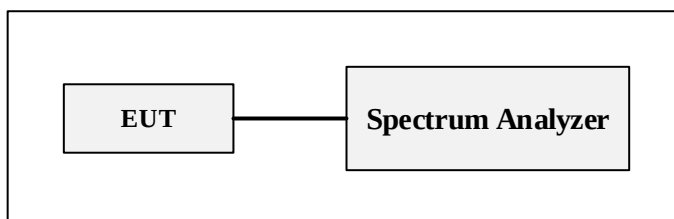
For frequency hopping systems operating in the 2400–2483.5 MHz band employing at least 75 non-overlapping hopping channels, and all frequency hopping systems in the 5725–5850 MHz band: 1 watt. For all other frequency hopping systems in the 2400–2483.5 MHz band: 0.125 watts

RSS-247 Clause 6.2.3.2 Transmitter output power and equivalent isotropically radiated power (e.i.r.p.) requirements

The following transmitter output power and e.i.r.p. requirements shall apply:

- a if the hopset uses 75 or more hopping channels, the maximum peak conducted output power shall not exceed 1.0 W.
- b if the hopset uses less than 75 hopping channels the maximum peak conducted output power shall not exceed 0.125 W.
- c the e.i.r.p. shall not exceed 4 W, except as provided in sections 6.5 a) and b).

3.8.2 EUT Setup



A short RF cable with low cable loss connected to the EUT antenna port. The insert loss of this RF cable/attenuator was offset into the setting of test equipment:

Offset=Insert loss of RF cable+ Insert loss of attenuator

3.8.3 Test Procedure

According to ANSI C63.10-2020 Section 7.8.5

This is an RF-conducted test to evaluate maximum peak output power. Use a direct connection between the antenna port of the unlicensed wireless device and the spectrum analyzer, through suitable attenuation. Frequency hopping shall be disabled for this test. Use the following spectrum analyzer settings:

- a) Span: Approximately five times the 20 dB bandwidth, centered on a hopping channel.
- b) RBW > 20 dB bandwidth of the emission being measured.
- c) VBW $\geq$ RBW.
- d) Sweep: No faster than coupled (auto) time.
- e) Detector function: Peak.
- f) Trace: Max-hold.

- g) Allow trace to stabilize.
- h) Use the marker-to-peak function to set the marker to the peak of the emission.
- i) The indicated level is the peak output power, after any corrections for external attenuators and cables.
- j) A spectral plot of the test results and setup description shall be included in the test report.

NOTE—A peak responding power meter may be used, where the power meter and sensor system video bandwidth is greater than the occupied bandwidth of the unlicensed wireless device, rather than a spectrum analyzer.

3.9 Conducted Spurious Emission

3.9.1 Applicable Standard

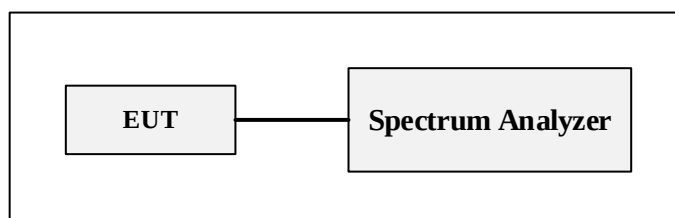
FCC §15.247 (d);

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)).

RSS-247 Clause 6.6

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated device is operating, the RF power that is produced 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 that the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of root-mean-square averaging over a time interval, as permitted under section 5.4(d), the attenuation required shall be 30 dB instead of 20 dB. Attenuation below the general field strength limits specified in RSS-Gen is not required.

3.9.2 EUT Setup



A short RF cable with low cable loss connected to the EUT antenna port. The insert loss of this RF cable/attenuator was offset into the setting of test equipment:

Offset=Insert loss of RF cable+ Insert loss of attenuator

3.9.3 Test Procedure

According to ANSI C63.10-2020 Section 7.8.7.2

Compliance with a relative limit at the band-edges (e.g., -20 dBc) shall be made on the lowest and on the highest channels with frequency hopping disabled and repeated with frequency hopping enabled. For the latter test the hopping sequence shall include the lowest and highest channels.

For measurements with the hopping disabled the analyzer screen shall clearly show compliance with the requirement within 10 MHz of the allocated band-edge.

For measurements with the hopping enabled the analyzer screen shall clearly show compliance with the requirement within 10 MHz of both of the allocated band-edges. This could require separate spectral plots for each band-edge.

- a) Set the center frequency and span to encompass frequency range to be measured.
 - b) Set the RBW = 100 kHz.
 - c) Set the VBW $\geq [3 \times \text{RBW}]$.
 - d) Detector = peak.
 - e) Sweep time = auto couple.
 - f) Trace mode = max hold.
 - g) Allow trace to fully stabilize.
 - h) Use the peak marker function to determine the maximum amplitude level.
- Ensure that the amplitude of all unwanted emissions outside of the authorized frequency band (excluding restricted frequency bands) is attenuated by at least the minimum requirements. Report the three highest emissions relative to the limit.

3.10 Antenna Requirement

3.10.1 Applicable Standard

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. 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.

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 ISED 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.

3.10.2 Judgment

Compliant. Please refer to the Antenna Information detail in Section 1.3.

4. Test DATA AND RESULTS

4.1 AC Line Conducted Emissions

Sample Number:	3SCI-4	Test Date:	2026/9/9
Test Site:	CE	Test Mode:	Transmitting
Tester:	Lixin	Test Result:	Pass

Environmental Conditions:					
Temperature: (°C)	23.2	Relative Humidity: (%)	51	ATM Pressure: (kPa)	100.4

Test Equipment List and Details:

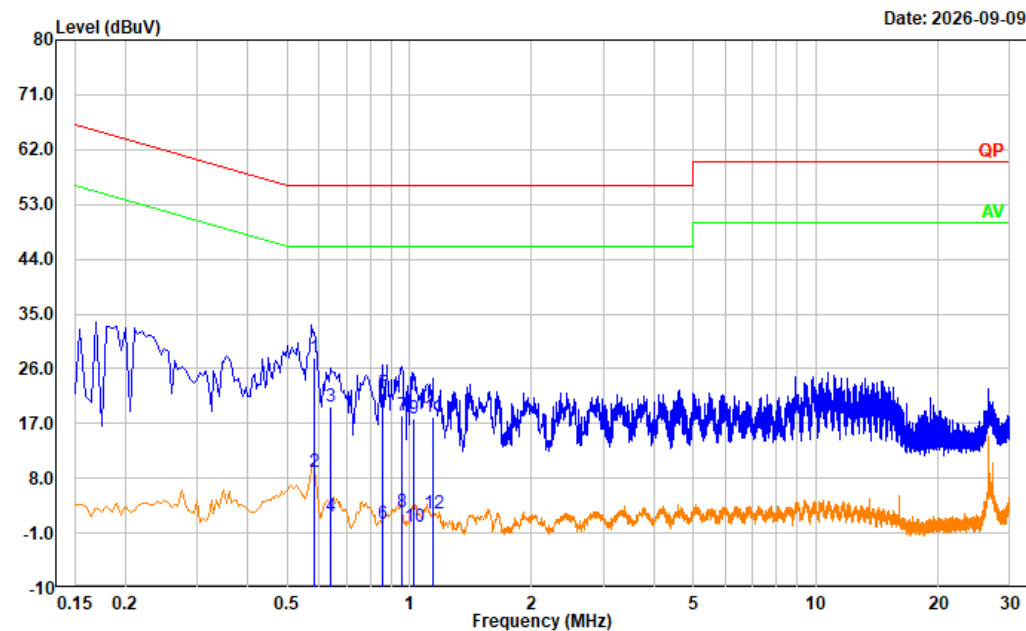
Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	LISN	ENV216	101132	2025/09/26	2026/09/25
R&S	EMI Test Receiver	ESR3	103104	2026/05/08	2027/05/07
MICRO-COAX	Coaxial Cable	UTIFLEX	C-0200-01	2025/11/10	2026/11/09
Audix	Test Software	E3	190306 (V9)	N/A	N/A

** Statement of Traceability: China Certification ICT Co., Ltd (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).*

The test plots as following:

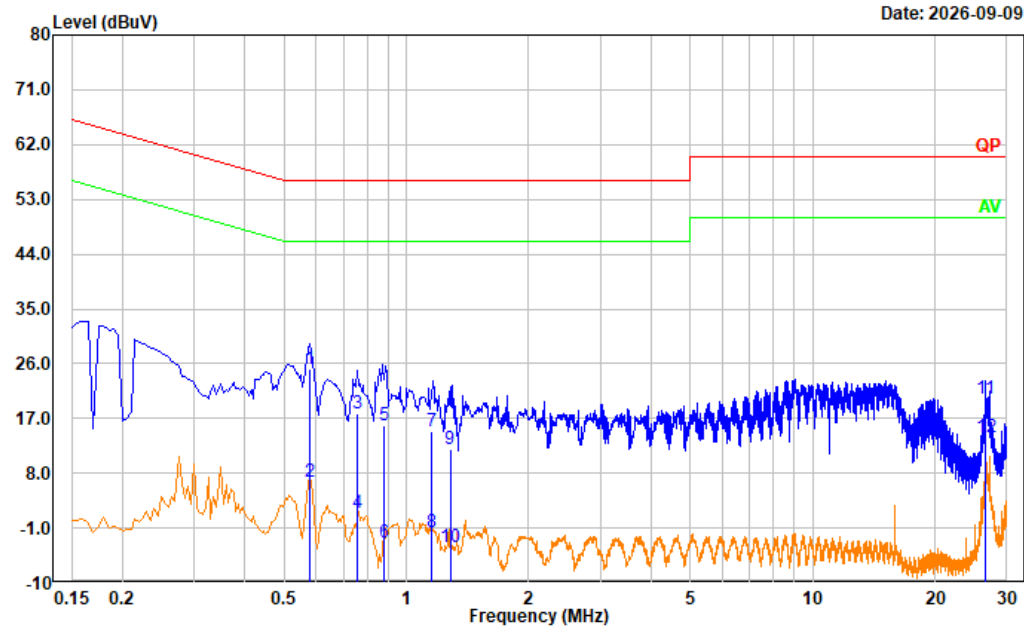
Note: The test was performed under the maximum conducted output power mode and channel (3EDR Mode (8DPSK, 3DH1) mode High Channel).

Project No.: 2603W28862E-RF
Tester: Lixin
Port: Line
Condition: RBW:9kHz
Test Mode: Transmitting
Note:



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB)	Result (dBμV)	Limit (dBμV)	Margin (dB)	Detector
1	0.581	17.49	10.37	27.86	56.00	28.14	QP
2	0.581	-1.33	10.37	9.04	46.00	36.96	Average
3	0.642	9.49	10.34	19.83	56.00	36.17	QP
4	0.642	-8.55	10.34	1.79	46.00	44.21	Average
5	0.861	11.45	10.42	21.87	56.00	34.13	QP
6	0.861	-9.90	10.42	0.52	46.00	45.48	Average
7	0.956	7.80	10.49	18.29	56.00	37.71	QP
8	0.956	-7.95	10.49	2.54	46.00	43.46	Average
9	1.024	7.18	10.51	17.69	56.00	38.31	QP
10	1.024	-10.40	10.51	0.11	46.00	45.89	Average
11	1.143	7.59	10.45	18.04	56.00	37.96	QP
12	1.143	-8.18	10.45	2.27	46.00	43.73	Average

Project No.: 2603W28862E-RF
 Tester: Lixin
 Port: neutral
 Condition: RBW:9kHz
 Test Mode: Transmitting
 Note:



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB)	Result (dBμV)	Limit (dBμV)	Margin (dB)	Detector
1	0.579	15.04	10.15	25.19	56.00	30.81	QP
2	0.579	-3.55	10.15	6.60	46.00	39.40	Average
3	0.758	7.51	10.23	17.74	56.00	38.26	QP
4	0.758	-8.79	10.23	1.44	46.00	44.56	Average
5	0.880	5.54	10.27	15.81	56.00	40.19	QP
6	0.880	-13.66	10.27	-3.39	46.00	49.39	Average
7	1.155	4.53	10.35	14.88	56.00	41.12	QP
8	1.155	-12.14	10.35	-1.79	46.00	47.79	Average
9	1.281	1.49	10.38	11.87	56.00	44.13	QP
10	1.281	-14.64	10.38	-4.26	46.00	50.26	Average
11	26.608	10.26	10.10	20.36	60.00	39.64	QP
12	26.608	3.88	10.10	13.98	50.00	36.02	Average

4.2 Radiation Spurious Emissions

1) 9kHz - 1GHz

Sample Number:	3SCI-4	Test Date:	2026/9/5
Test Site:	966-1	Test Mode:	Transmitting (Maximum Conducted Output Power Mode, 8DPSK 3DH1 High Channel)
Tester:	Peter Rong	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	22.7	Relative Humidity: (%)	60	ATM Pressure: (kPa)	100
----------------------	------	------------------------------	----	------------------------	-----

Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
RE Below 1G					
Sunol Sciences	Antenna	JB6	A082520-5	2023/12/01	2026/11/30
GLOBAL	Loop Antenna	1313-1A	3110611	2026/01/29	2029/01/28
Daruikang	Coaxial Cable	BNC-JJ-RG58	C-0300-01	2025/11/10	2026/11/09
Daruikang	Coaxial Cable	BNC-JJ-RG58	C-0500-01	2025/11/10	2026/11/09
R&S	EMI Test Receiver	ESR3	102724	2026/02/27	2027/02/26
TIMES MICROWAVE	Coaxial Cable	LMR-600-UltraFlex	C-0100-03	2025/11/10	2026/11/09
TIMES MICROWAVE	Coaxial Cable	LMR-600-UltraFlex	C-0370-01	2025/11/10	2026/11/09
XQY	Coaxial Cable	XQY-CMR400UF-NJ-NJ-7M	24056379	2026/05/21	2027/05/20
Sonoma	Amplifier	310N	186165	2025/11/10	2026/11/09
Audix	Test Software	E3	191218 (V9)	N/A	N/A

* Statement of Traceability: China Certification ICT Co., Ltd (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Test Data:

After pre-scan in the X, Y and Z axes of orientation, the worst case (Z) is referred to plots.

9kHz~30MHz:

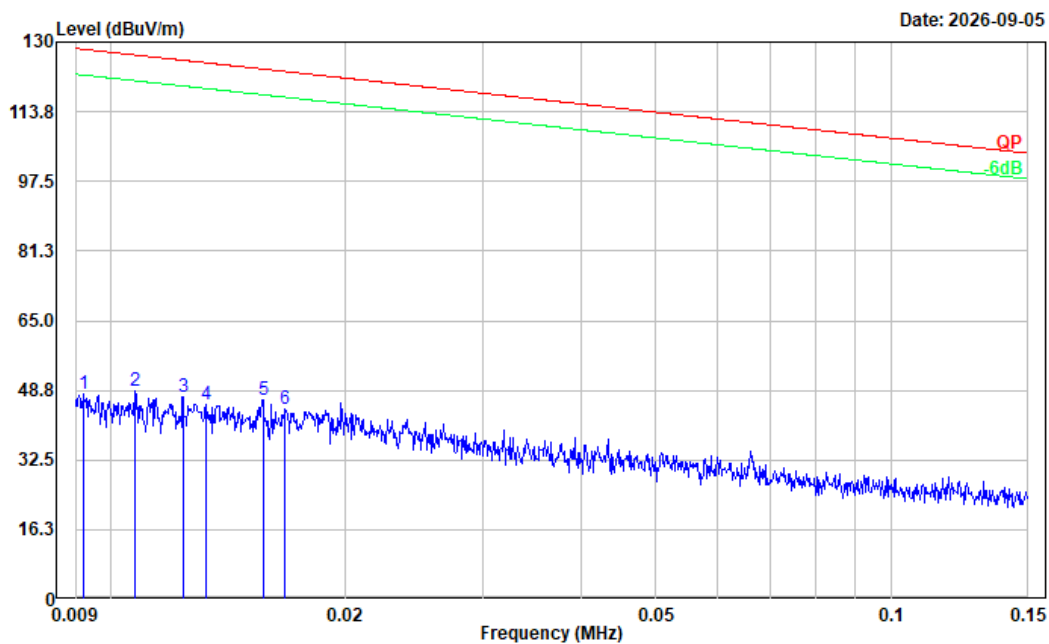
Project No.: 2603W28862E-RF

Tester: Peter Rong

Condition: RBW:0.2 kHz VBW:0.1 kHz

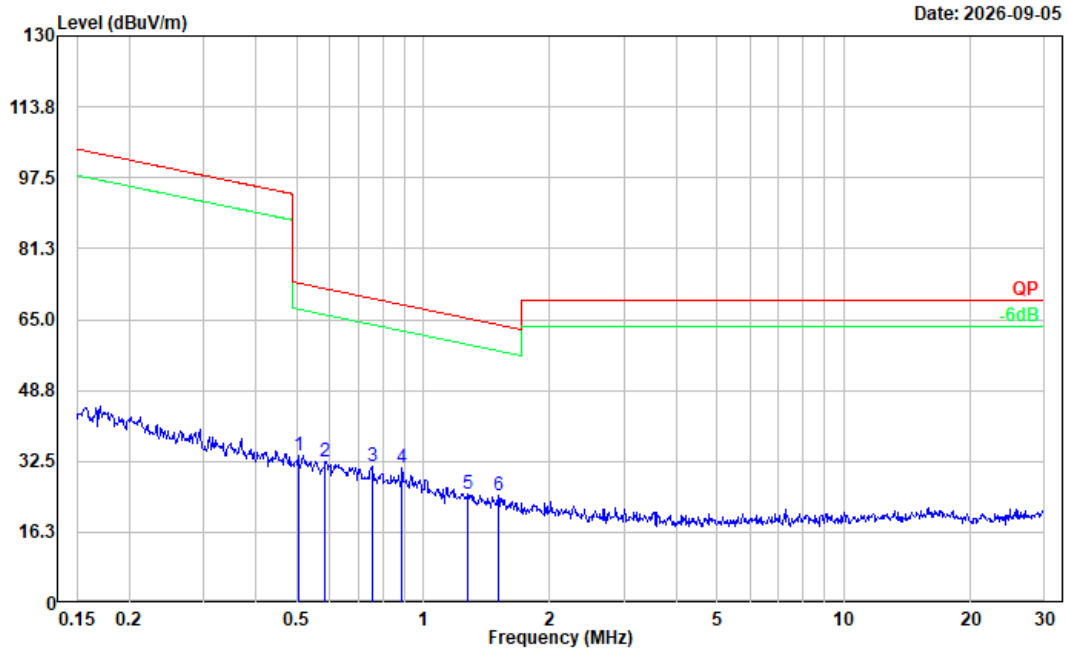
Polarization: Parallel

Note: Transmitting BT



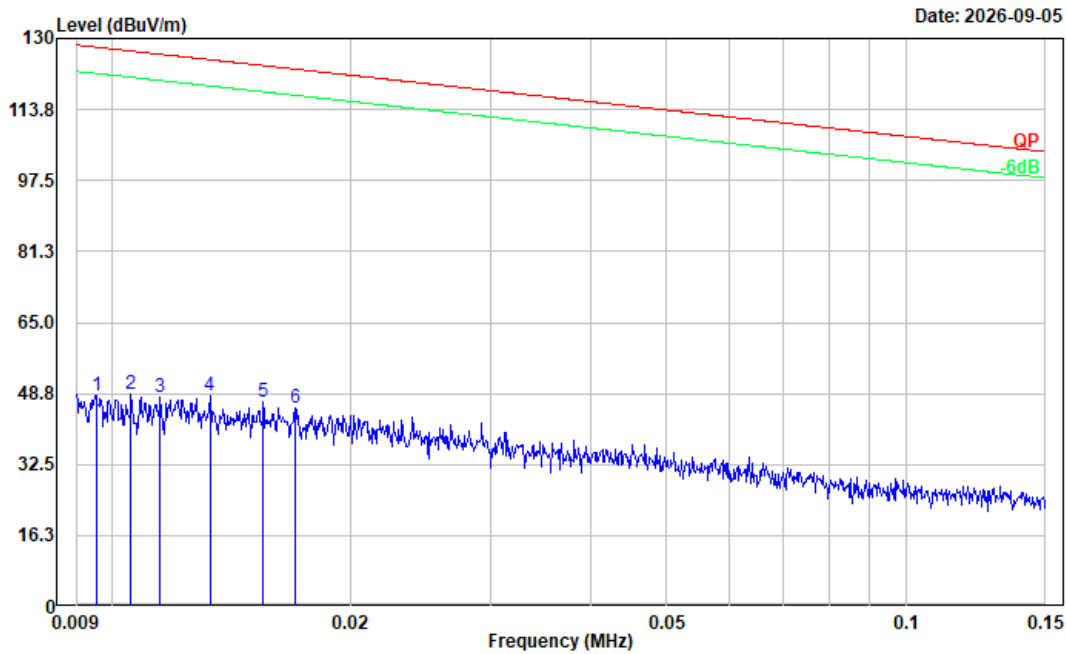
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	0.009	12.51	35.35	47.86	128.32	80.46	Peak
2	0.011	14.53	33.97	48.50	126.98	78.48	Peak
3	0.012	14.05	33.21	47.26	125.76	78.50	Peak
4	0.013	12.80	32.80	45.60	125.17	79.57	Peak
5	0.016	14.94	31.66	46.60	123.71	77.11	Peak
6	0.017	13.15	31.16	44.31	123.14	78.83	Peak

Project No.: 2603W28862E-RF
Tester: Peter Rong
Condition: RBW:9 kHz VBW:30 kHz
Polarization: Parallel
Note: Transmitting BT



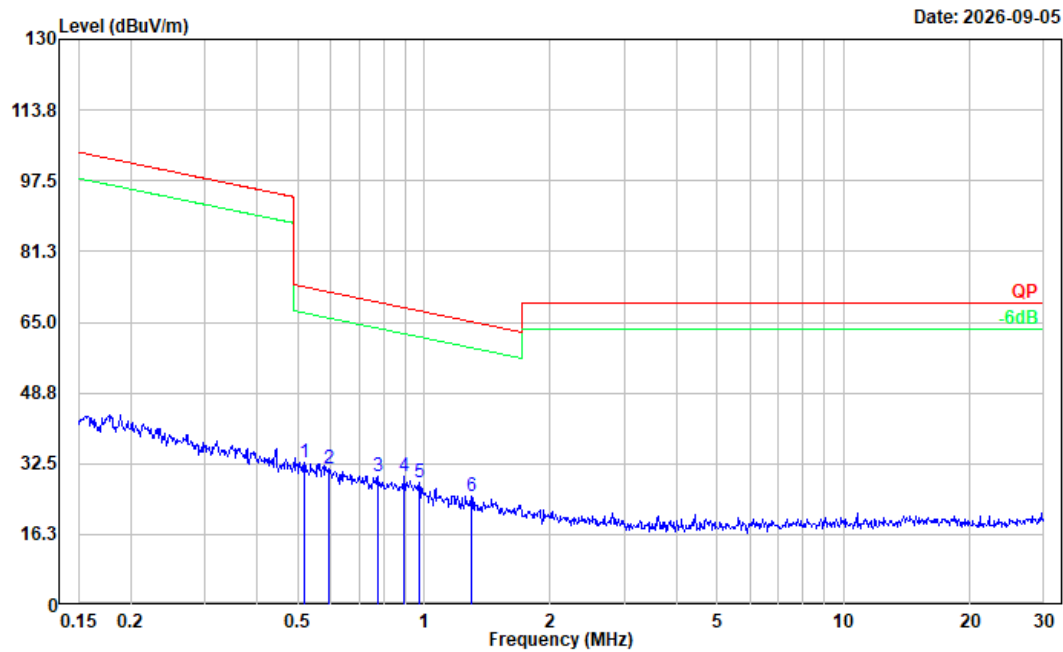
No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Remark
1	0.505	33.14	0.81	33.95	73.54	39.59	Peak
2	0.585	32.53	-0.07	32.46	72.22	39.76	Peak
3	0.759	33.25	-1.96	31.29	69.92	38.63	Peak
4	0.890	34.48	-3.33	31.15	68.51	37.36	Peak
5	1.276	30.26	-5.31	24.95	65.31	40.36	Peak
6	1.503	30.82	-6.00	24.82	63.86	39.04	Peak

Project No.: 2603W28862E-RF
 Tester: Peter Rong
 Condition: RBW:0.2 kHz VBW:0.1 kHz
 Polarization: Perpendicular
 Note: Transmitting BT



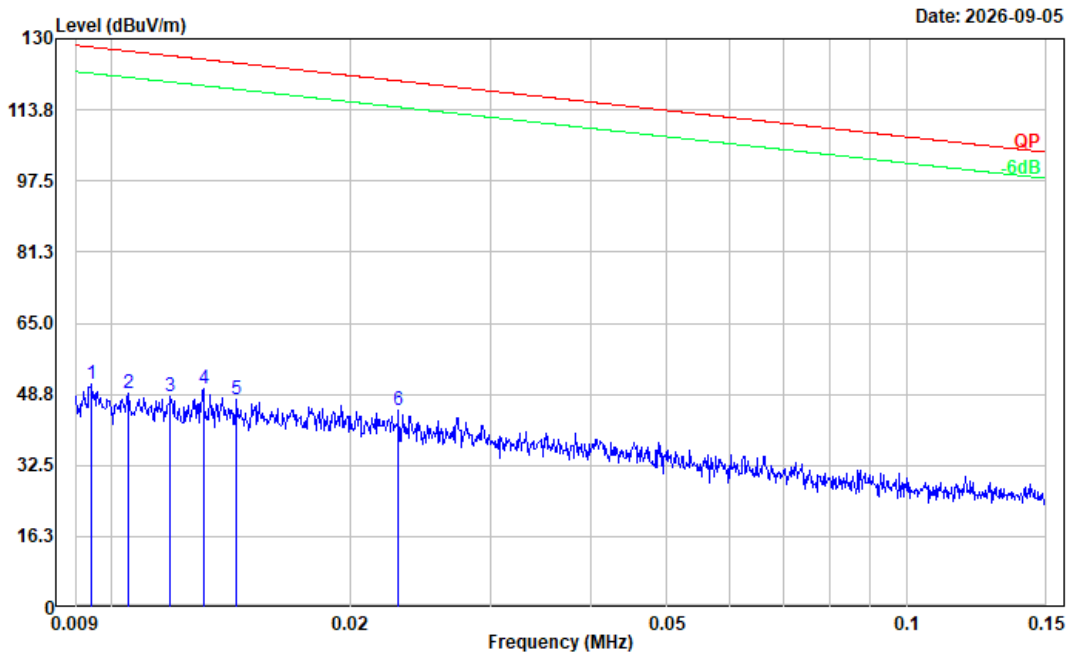
No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Remark
1	0.010	14.01	34.22	48.23	128.01	79.78	Peak
2	0.011	15.21	33.43	48.64	127.13	78.49	Peak
3	0.011	14.94	32.95	47.89	126.39	78.50	Peak
4	0.013	16.36	32.04	48.40	125.15	76.75	Peak
5	0.015	15.81	30.89	46.70	123.80	77.10	Peak
6	0.017	15.42	30.12	45.54	123.00	77.46	Peak

Project No.: 2603W28862E-RF
Tester: Peter Rong
Condition: RBW:9 kHz VBW:30 kHz
Polarization: Perpendicular
Note: Transmitting BT



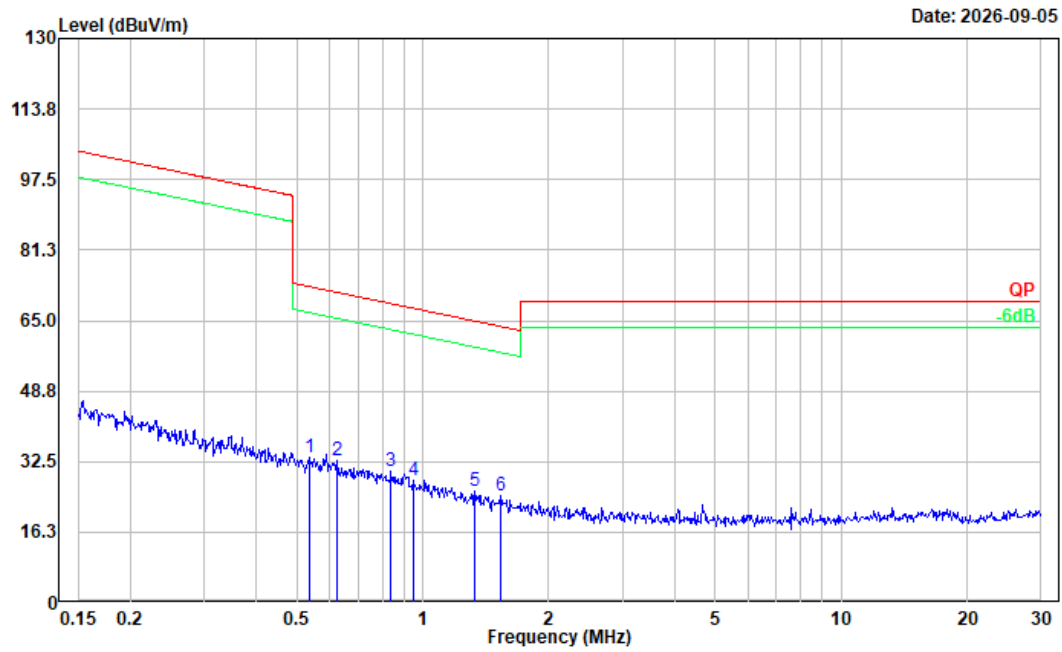
No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Remark
1	0.518	32.84	-0.25	32.59	73.30	40.71	Peak
2	0.595	32.55	-1.14	31.41	72.08	40.67	Peak
3	0.775	32.89	-3.22	29.67	69.73	40.06	Peak
4	0.899	33.95	-4.47	29.48	68.42	38.94	Peak
5	0.974	33.51	-5.22	28.29	67.71	39.42	Peak
6	1.296	31.57	-6.38	25.19	65.17	39.98	Peak

Project No.: 2603W28862E-RF
Tester: Peter Rong
Condition: RBW:0.2 kHz VBW:0.1 kHz
Polarization: Ground-Parallel
Note: Transmitting BT



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Remark
1	0.009	16.10	35.05	51.15	128.10	76.95	Peak
2	0.010	14.80	34.10	48.90	127.20	78.30	Peak
3	0.012	14.75	33.45	48.20	126.13	77.93	Peak
4	0.013	17.11	32.89	50.00	125.29	75.29	Peak
5	0.014	15.37	32.27	47.64	124.46	76.82	Peak
6	0.023	16.92	28.24	45.16	120.38	75.22	Peak

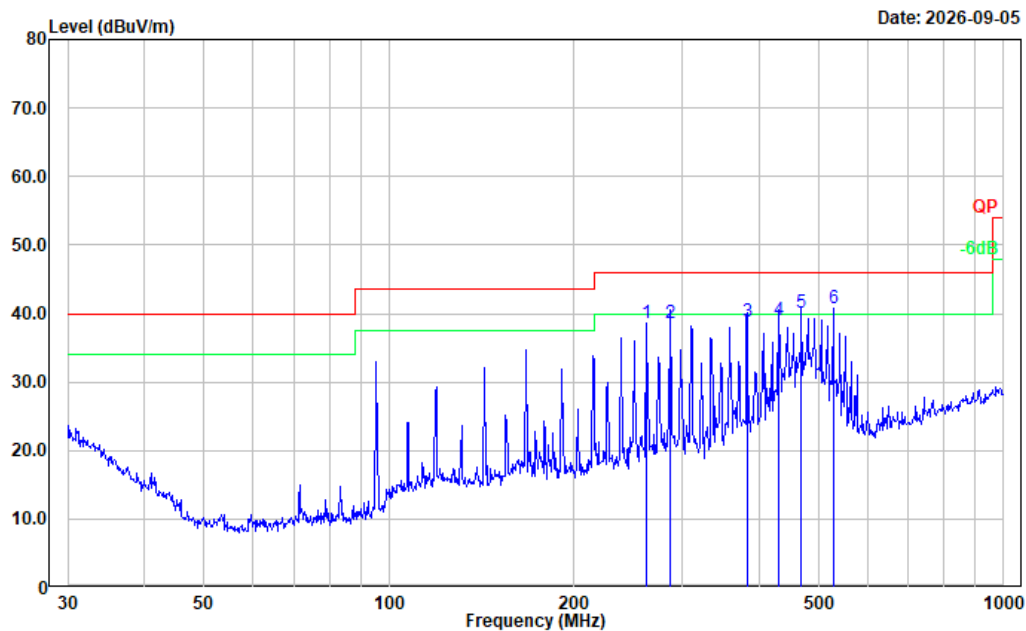
Project No.: 2603W28862E-RF
Tester: Peter Rong
Condition: RBW:9 kHz VBW:30 kHz
Polarization: Ground-Parallel
Note: Transmitting BT



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	0.535	33.03	0.49	33.52	73.02	39.50	Peak
2	0.624	33.23	-0.49	32.74	71.66	38.92	Peak
3	0.839	33.16	-2.82	30.34	69.03	38.69	Peak
4	0.953	32.27	-3.99	28.28	67.90	39.62	Peak
5	1.331	31.14	-5.48	25.66	64.94	39.28	Peak
6	1.535	30.70	-6.10	24.60	63.67	39.07	Peak

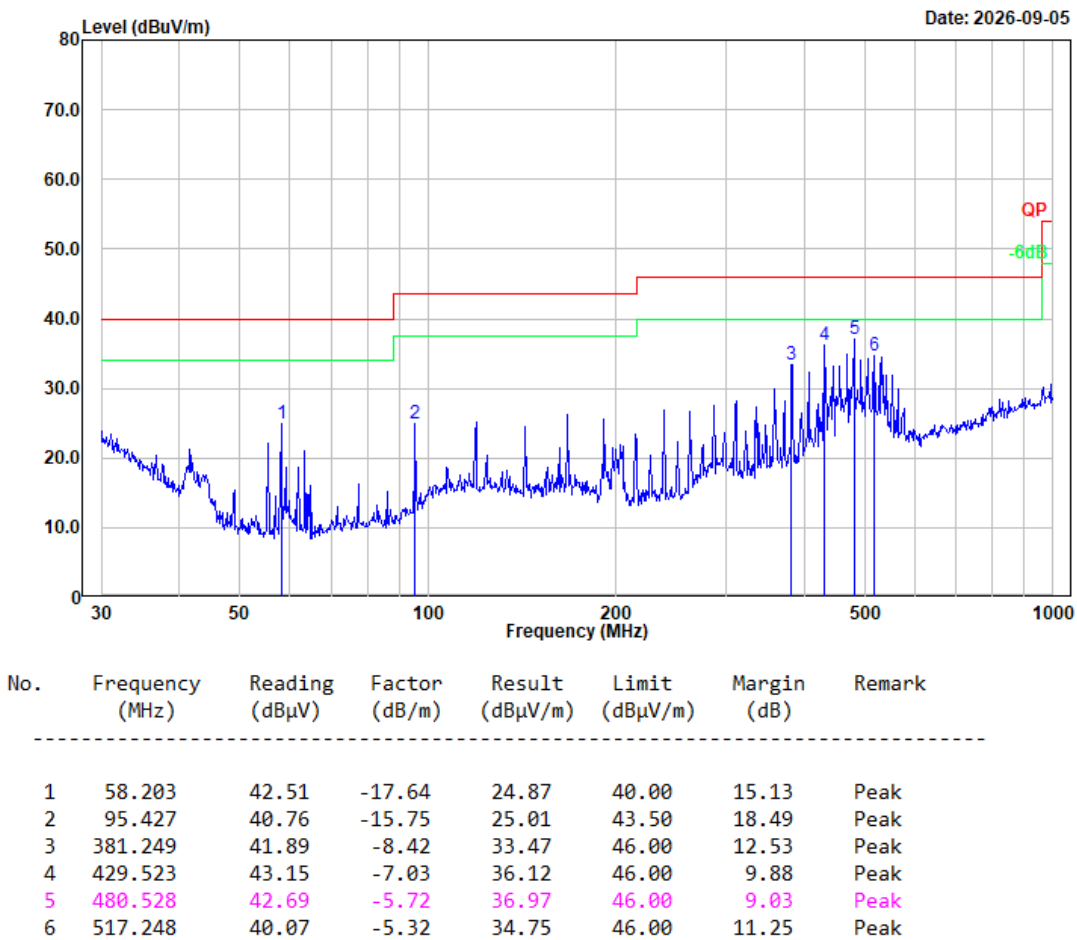
30MHz ~1GHz:

Project No.: 2603W28862E-RF
Tester: Peter Rong
Condition: RBW:120 kHz VBW:500 kHz
Polarization: horizontal
Note: Transmitting BT



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Remark
1	262.896	49.67	-11.17	38.50	46.00	7.50	Peak
2	285.978	49.00	-10.36	38.64	46.00	7.36	QP
3	382.588	47.24	-8.37	38.87	46.00	7.13	QP
4	429.523	46.15	-7.03	39.12	46.00	6.88	QP
5	468.876	45.96	-5.85	40.11	46.00	5.89	QP
6	528.246	46.01	-5.17	40.84	46.00	5.16	Peak

Project No.: 2603W28862E-RF
Tester: Peter Rong
Condition: RBW:120 kHz VBW:500 kHz
Polarization: vertical
Note: Transmitting BT



2) 1-25GHz:

Serial Number:	3SCI-4	Test Date:	2026/9/3
Test Site:	966-2	Test Mode:	Transmitting
Tester:	Rika Lu	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	23.5	Relative Humidity: (%)	55	ATM Pressure: (kPa)	99.4
----------------------	------	---------------------------	----	------------------------	------

Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
ETS-Lindgren	Horn Antenna	3115	9912-5985	2023/12/6	2026/12/5
R&S	Spectrum Analyzer	FSV40	101591	2026/2/27	2027/2/26
MICRO-COAX	Coaxial Cable	UFA210A-1-1200-70U300	217423-008	2025/11/10	2026/11/9
MICRO-COAX	Coaxial Cable	UFA210A-1-2362-300300	235780-001	2025/11/10	2026/11/9
A.H	Pre-amplifier	PAM-0118P	628	2025/11/10	2026/11/9
Audix	Test Software	E3	191218 (V9)	N/A	N/A
PASTERNAK	Horn Antenna	PE9852/2F-20	112002	2024/5/24	2027/5/23
Quinstar	Preamplifier	QLW-18405536-JO	15964001005	2025/11/10	2026/11/9
MICRO-COAX	Coaxial Cable	UFB142A-1-2362-200200	235772-001	2025/11/10	2026/11/9
Decentest	Multiplex Switch Test Control Set	DT7220SCU	DQ77925	2026/8/3	2027/8/2
Decentest	Filter Switch Unit	DT7220FSU	DQ77928	2026/8/3	2027/8/2

* Statement of Traceability: China Certification ICT Co., Ltd (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Test Data:

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

BDR Mode (GFSK):

Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	Remark					
Low Channel: 2402 MHz							
4804.000	41.76	PK	H	4.64	46.40	74.00	27.60
4804.000	39.82	PK	V	4.64	44.46	74.00	29.54
7206.000	44.68	PK	H	9.84	54.52	74.00	19.48
7206.000	30.49	AV	H	9.84	40.33	54.00	13.67
7206.000	41.54	PK	V	9.84	51.38	74.00	22.62
7206.000	27.72	AV	V	9.84	37.56	54.00	16.44
Middle Channel: 2441 MHz							
4882.000	41.91	PK	H	4.88	46.79	74.00	27.21
4882.000	39.74	PK	V	4.88	44.62	74.00	29.38
7323.000	40.56	PK	H	10.58	51.14	74.00	22.86
7323.000	27.24	AV	H	10.58	37.82	54.00	16.18
7323.000	38.75	PK	V	10.58	49.33	74.00	24.67
7323.000	25.63	AV	V	10.58	36.21	54.00	17.79
High Channel: 2480 MHz							
4960.000	42.62	PK	H	4.87	47.49	74.00	26.51
4960.000	39.44	PK	V	4.87	44.31	74.00	29.69
7440.000	38.44	PK	H	10.60	49.04	74.00	24.96
7440.000	25.43	AV	H	10.60	36.03	54.00	17.97
7440.000	39.73	PK	V	10.60	50.33	74.00	23.67
7440.000	25.07	AV	V	10.60	35.67	54.00	18.33

EDR Mode ($\pi/4$ -DQPSK):

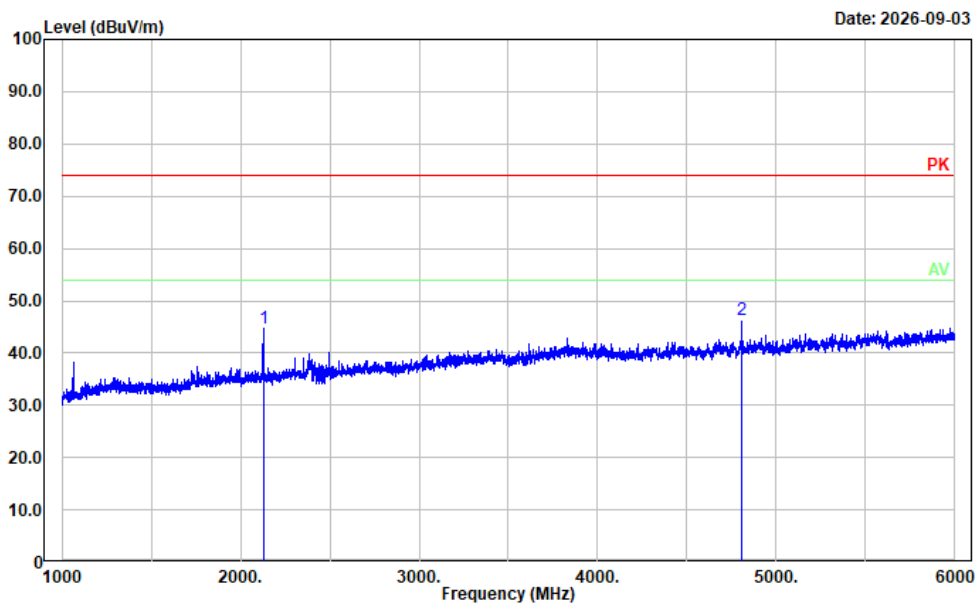
Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	Remark					
Low Channel:				2402	MHz		
4804.000	41.07	PK	H	4.64	45.71	74.00	28.29
4804.000	40.86	PK	V	4.64	45.50	74.00	28.50
7206.000	43.07	PK	H	9.84	52.91	74.00	21.09
7206.000	30.50	AV	H	9.84	40.34	54.00	13.66
7206.000	40.33	PK	V	9.84	50.17	74.00	23.83
7206.000	27.72	AV	V	9.84	37.56	54.00	16.44
Middle Channel:				2441	MHz		
4882.000	41.74	PK	H	4.88	46.62	74.00	27.38
4882.000	39.78	PK	V	4.88	44.66	74.00	29.34
7323.000	40.16	PK	H	10.58	50.74	74.00	23.26
7323.000	27.17	AV	H	10.58	37.75	54.00	16.25
7323.000	39.26	PK	V	10.58	49.84	74.00	24.16
7323.000	25.65	AV	V	10.58	36.23	54.00	17.77
High Channel:				2480	MHz		
4960.000	41.44	PK	H	4.87	46.31	74.00	27.69
4960.000	38.93	PK	V	4.87	43.80	74.00	30.20
7440.000	38.30	PK	H	10.60	48.90	74.00	25.10
7440.000	25.42	AV	H	10.60	36.02	54.00	17.98
7440.000	38.12	PK	V	10.60	48.72	74.00	25.28
7440.000	24.87	AV	V	10.60	35.47	54.00	18.53

EDR Mode (8DPSK):

Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	Remark					
Low Channel: 2402 MHz							
4804.000	41.52	PK	H	4.64	46.16	74.00	27.84
4804.000	40.00	PK	V	4.64	44.64	74.00	29.36
7206.000	43.64	PK	H	9.84	53.48	74.00	20.52
7206.000	32.85	AV	H	9.84	42.69	54.00	11.31
7206.000	41.52	PK	V	9.84	51.36	74.00	22.64
7206.000	29.15	AV	V	9.84	38.99	54.00	15.01
Middle Channel: 2441 MHz							
4882.000	41.73	PK	H	4.88	46.61	74.00	27.39
4882.000	40.13	PK	V	4.88	45.01	74.00	28.99
7323.000	40.79	PK	H	10.58	51.37	74.00	22.63
7323.000	28.52	AV	H	10.58	39.10	54.00	14.90
7323.000	38.81	PK	V	10.58	49.39	74.00	24.61
7323.000	26.03	AV	V	10.58	36.61	54.00	17.39
High Channel: 2480 MHz							
4960.000	42.26	PK	H	4.87	47.13	74.00	26.87
4960.000	38.76	PK	V	4.87	43.63	74.00	30.37
7440.000	38.60	PK	H	10.60	49.20	74.00	24.80
7440.000	25.75	AV	H	10.60	36.35	54.00	17.65
7440.000	37.86	PK	V	10.60	48.46	74.00	25.54
7440.000	25.01	AV	V	10.60	35.61	54.00	18.39

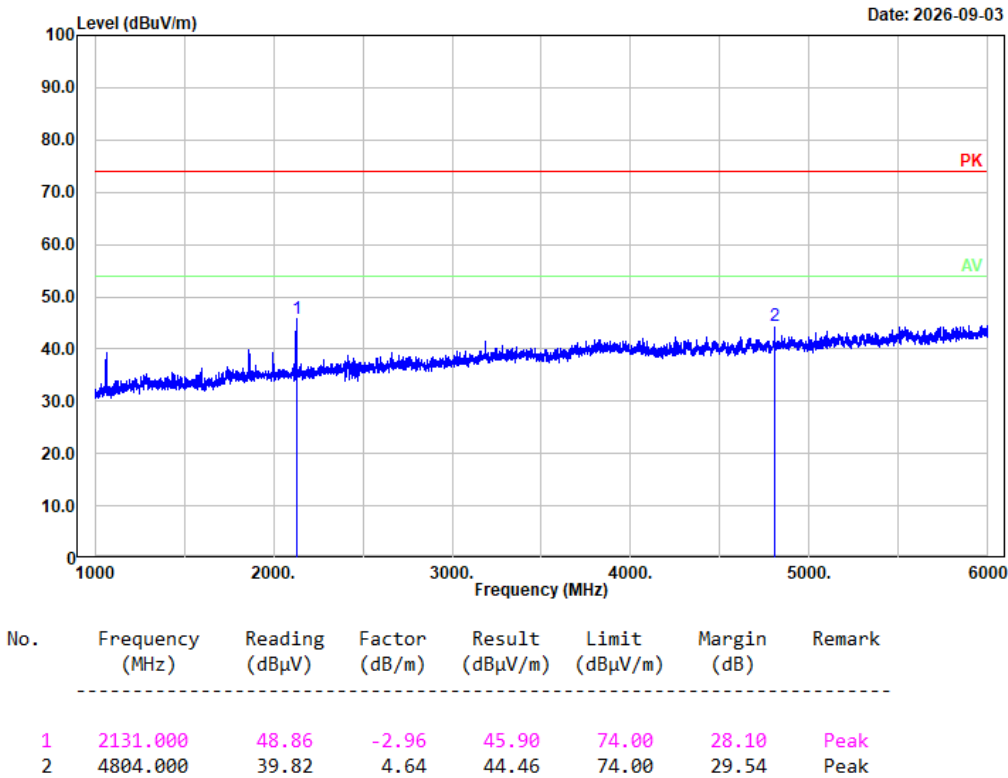
Worst radiation spurious emissions margin test plots for each mode**Test plots for 1GHz ~18GHz:**

Project No: 2603W28862E-RF
Tester: Rika Lu
Condition: PK trace RBW:1MHz; VBW:3MHz
Polarization: horizontal
Note: BDR(DH5) Mode Low Channel 2402MHz

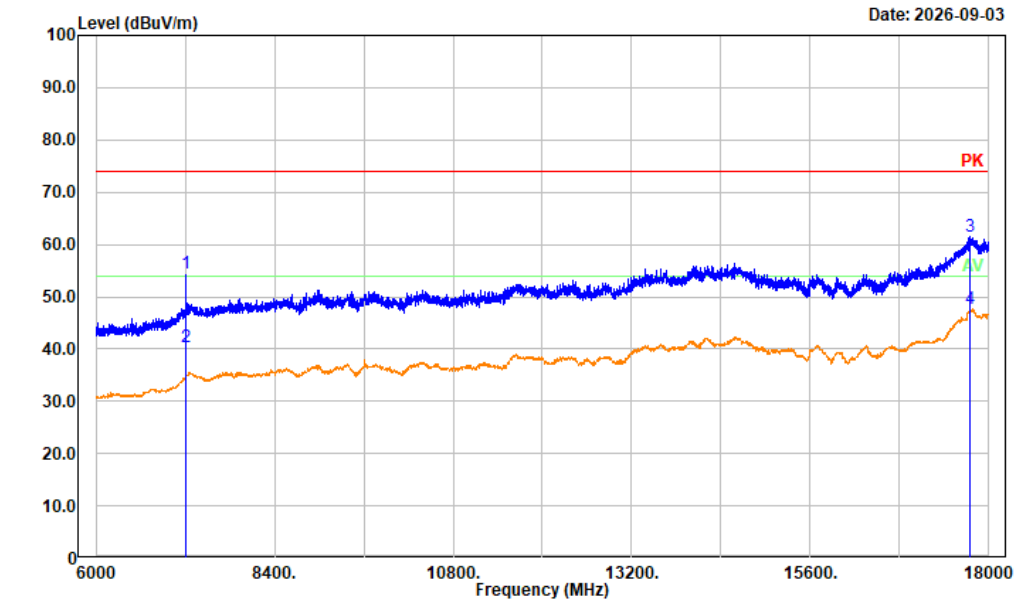


No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Remark
1	2131.000	47.70	-2.96	44.74	74.00	29.26	Peak
2	4804.000	41.76	4.64	46.40	74.00	27.60	Peak

Project No: 2603W28862E-RF
Tester: Rika Lu
Condition: PK trace RBW:1MHz; VBW:3MHz
Polarization: vertical
Note: BDR(DH5) Mode Low Channel 2402MHz

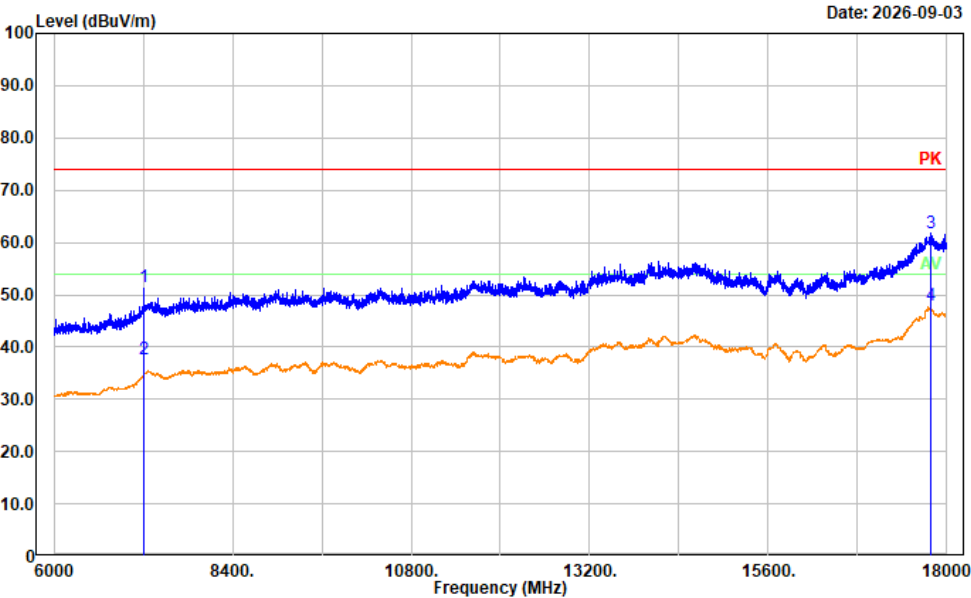


Project No: 2603W28862E-RF
Tester: Rika Lu
Condition: PK trace RBW:1MHz; VBW:3MHz; AV trace RBW:1MHz; VBW:5kHz
Polarization: horizontal
Note: BDR(DH5) Mode Low Channel 2402MHz



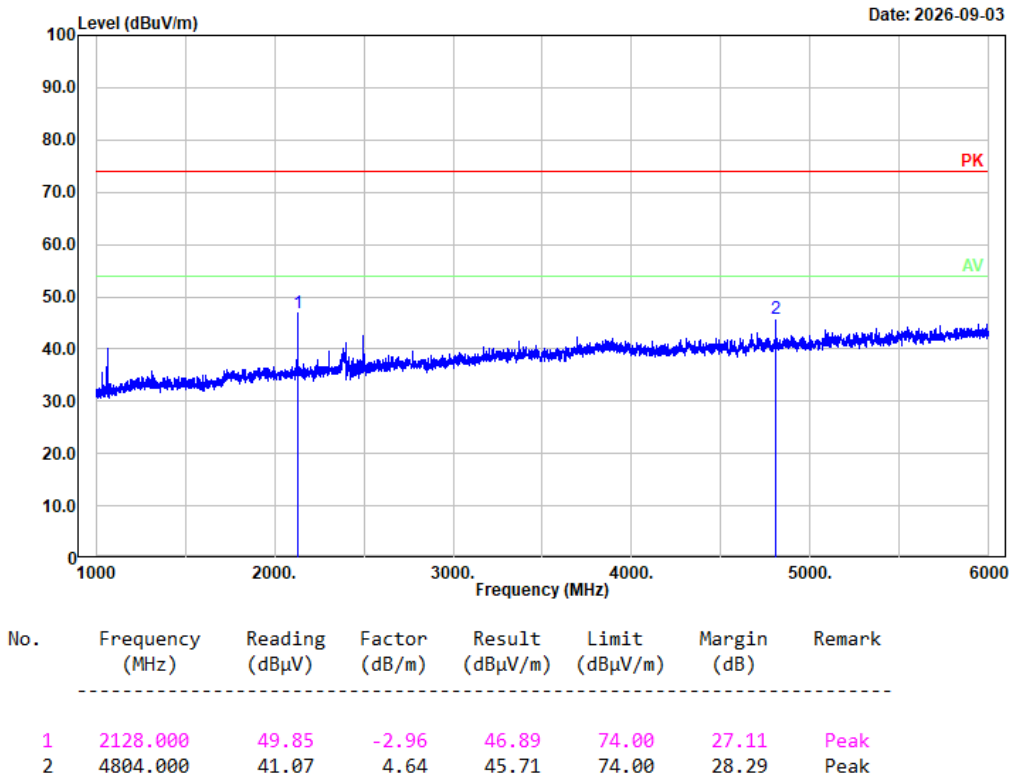
No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Remark
1	7206.000	44.68	9.84	54.52	74.00	19.48	Peak
2	7206.000	30.49	9.84	40.33	54.00	13.67	Average
3	17750.400	40.42	21.18	61.60	74.00	12.40	Peak
4	17750.400	26.62	21.18	47.80	54.00	6.20	Average

Project No: 2603W28862E-RF
Tester: Rika Lu
Condition: PK trace RBW:1MHz; VBW:3MHz; AV trace RBW:1MHz; VBW:5kHz
Polarization: vertical
Note: BDR(DH5) Mode Low Channel 2402MHz

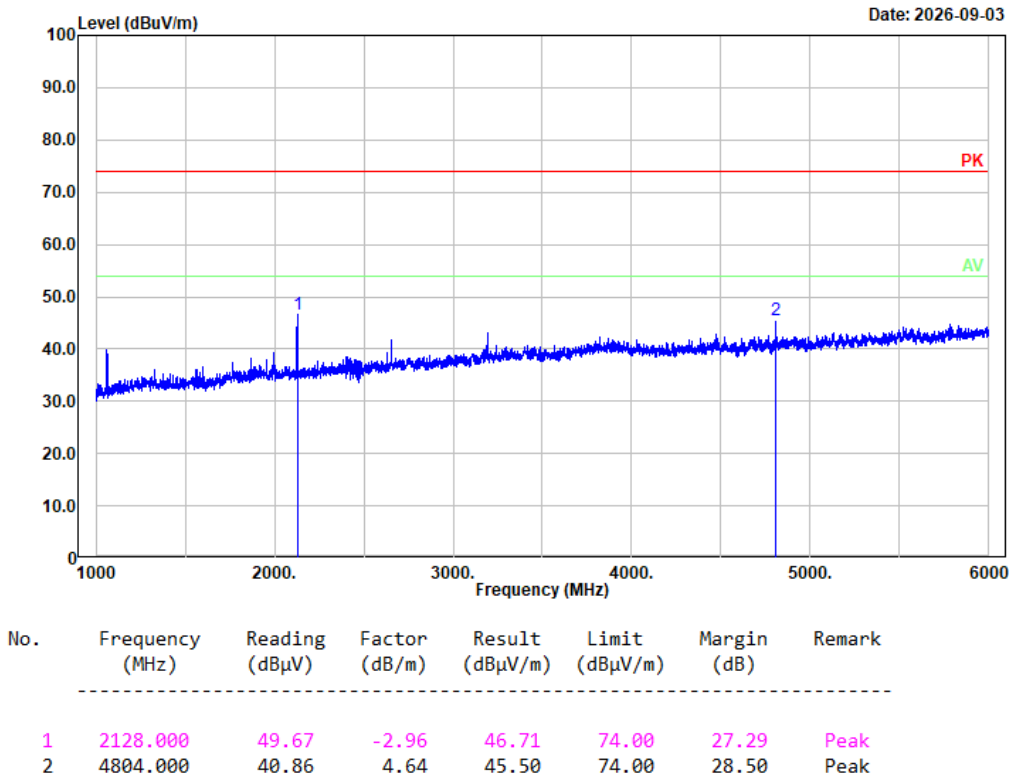


No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Remark
1	7206.000	41.54	9.84	51.38	74.00	22.62	Peak
2	7206.000	27.72	9.84	37.56	54.00	16.44	Average
3	17788.800	40.42	21.32	61.74	74.00	12.26	Peak
4	17788.800	26.59	21.32	47.91	54.00	6.09	Average

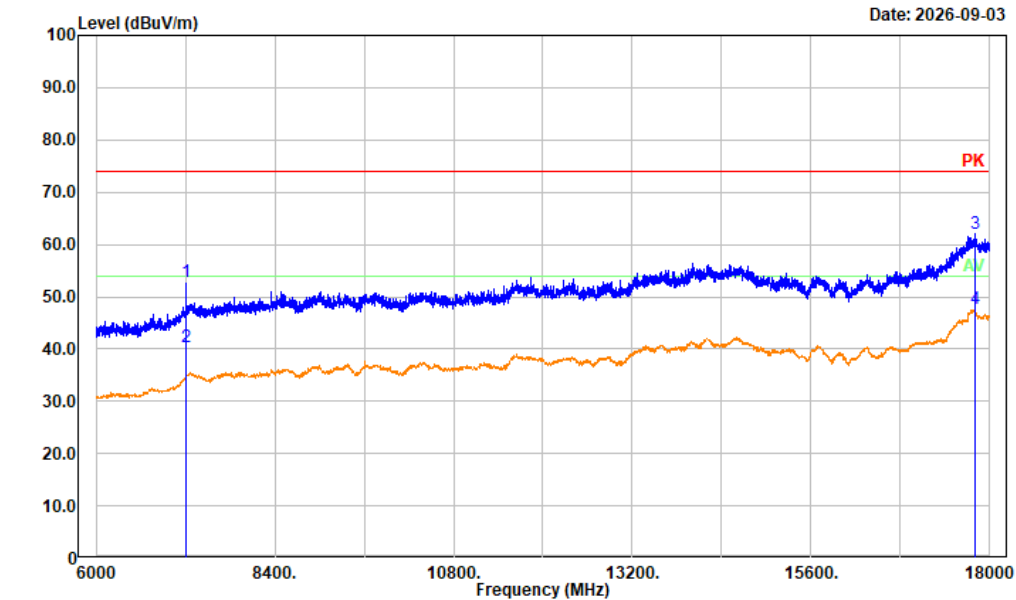
Project No: 2603W28862E-RF
Tester: Rika Lu
Condition: PK trace RBW:1MHz; VBW:3MHz
Polarization: horizontal
Note: EDR(2DH5) Mode Low Channel 2402MHz



Project No: 2603W28862E-RF
Tester: Rika Lu
Condition: PK trace RBW:1MHz; VBW:3MHz
Polarization: vertical
Note: EDR(2DH5) Mode Low Channel 2402MHz

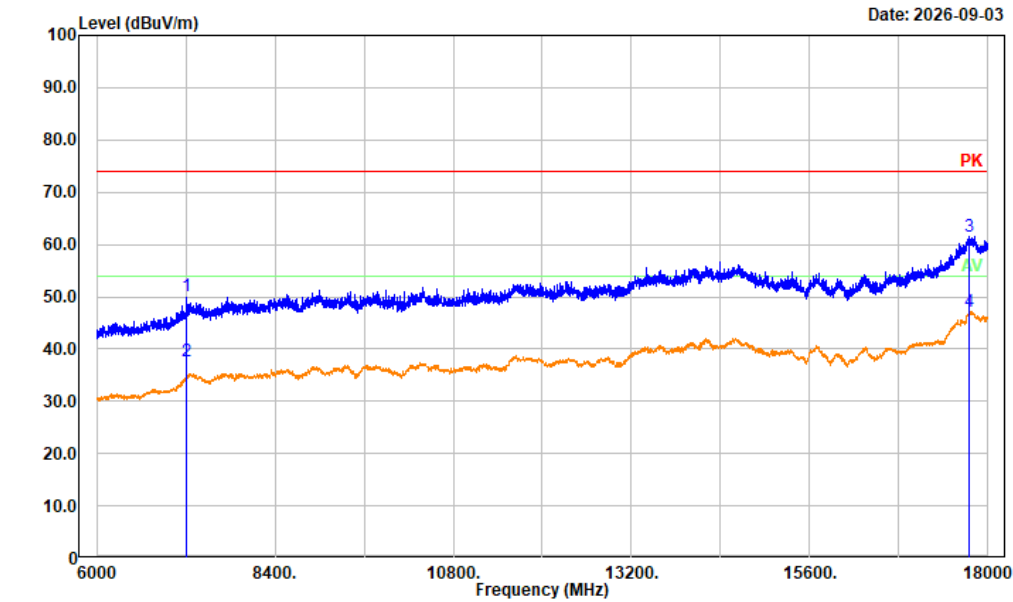


Project No: 2603W28862E-RF
Tester: Rika Lu
Condition: PK trace RBW:1MHz; VBW:3MHz; AV trace RBW:1MHz; VBW:5kHz
Polarization: horizontal
Note: EDR(2DH5) Mode Low Channel 2402MHz



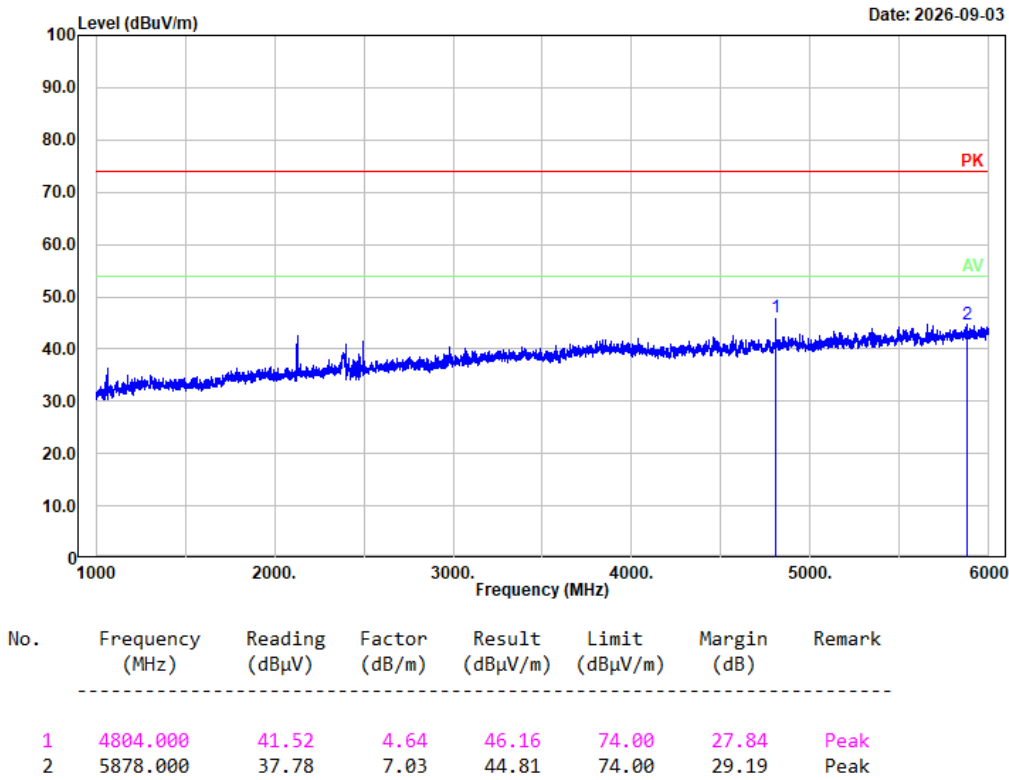
No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Remark
1	7206.000	43.07	9.84	52.91	74.00	21.09	Peak
2	7206.000	30.50	9.84	40.34	54.00	13.66	Average
3	17796.000	40.60	21.34	61.94	74.00	12.06	Peak
4	17796.000	26.46	21.34	47.80	54.00	6.20	Average

Project No: 2603W28862E-RF
Tester: Rika Lu
Condition: PK trace RBW:1MHz; VBW:3MHz; AV trace RBW:1MHz; VBW:5kHz
Polarization: vertical
Note: EDR(2DH5) Mode Low Channel 2402MHz

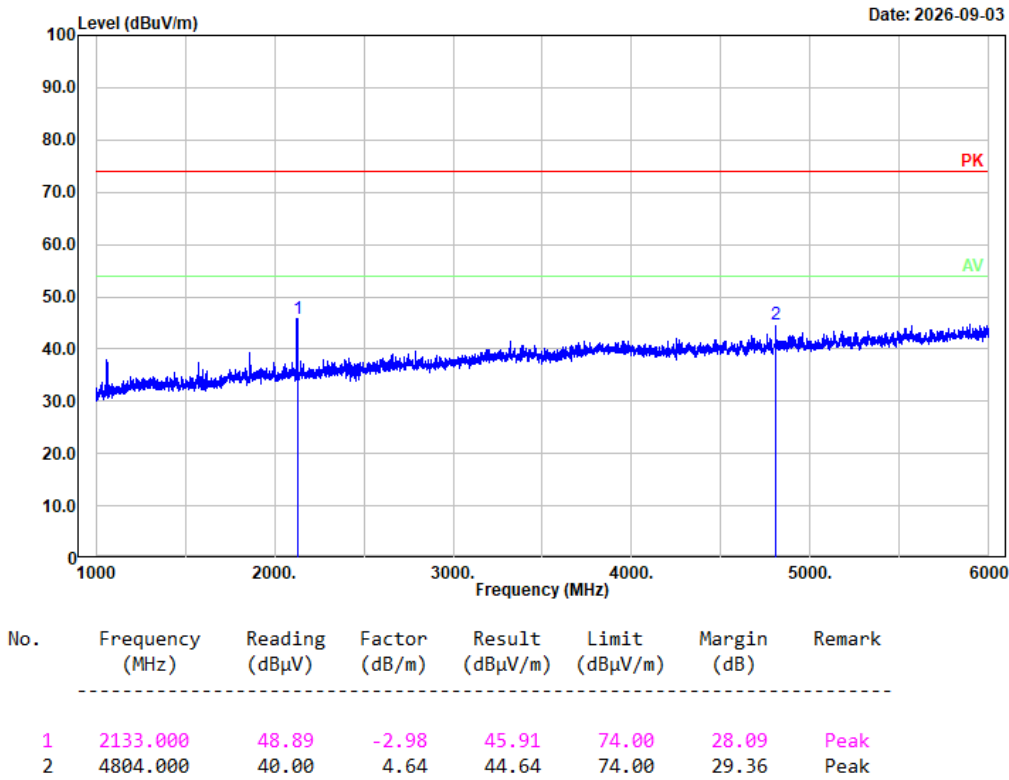


No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Remark
1	7206.000	40.33	9.84	50.17	74.00	23.83	Peak
2	7206.000	27.72	9.84	37.56	54.00	16.44	Average
3	17748.000	40.46	21.17	61.63	74.00	12.37	Peak
4	17748.000	25.87	21.17	47.04	54.00	6.96	Average

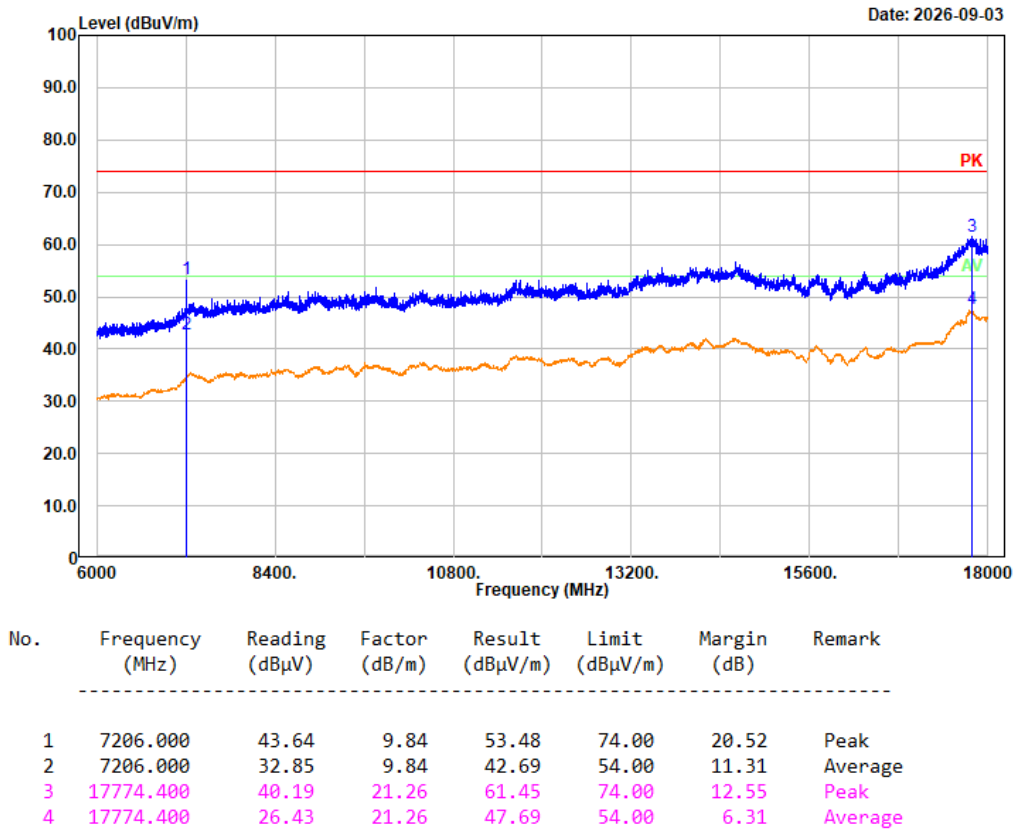
Project No: 2603W28862E-RF
Tester: Rika Lu
Condition: PK trace RBW:1MHz; VBW:3MHz
Polarization: horizontal
Note: EDR(3DH5) Mode Low Channel 2402MHz



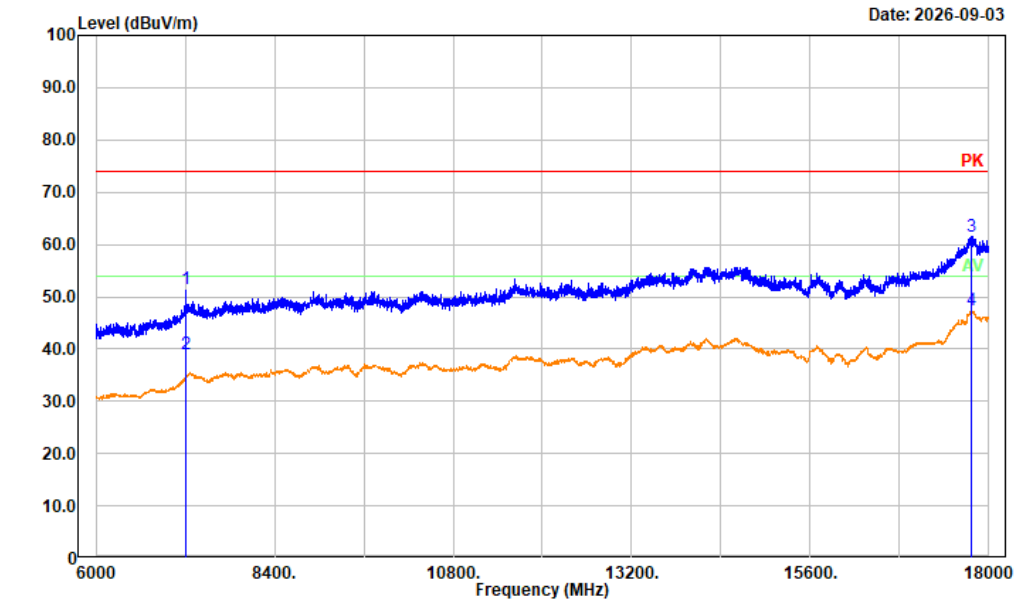
Project No: 2603W28862E-RF
Tester: Rika Lu
Condition: PK trace RBW:1MHz; VBW:3MHz
Polarization: vertical
Note: EDR(3DH5) Mode Low Channel 2402MHz



Project No: 2603W28862E-RF
Tester: Rika Lu
Condition: PK trace RBW:1MHz; VBW:3MHz; AV trace RBW:1MHz; VBW:5kHz
Polarization: horizontal
Note: EDR(3DH5) Mode Low Channel 2402MHz



Project No: 2603W28862E-RF
Tester: Rika Lu
Condition: PK trace RBW:1MHz; VBW:3MHz; AV trace RBW:1MHz; VBW:5kHz
Polarization: vertical
Note: EDR(3DH5) Mode Low Channel 2402MHz

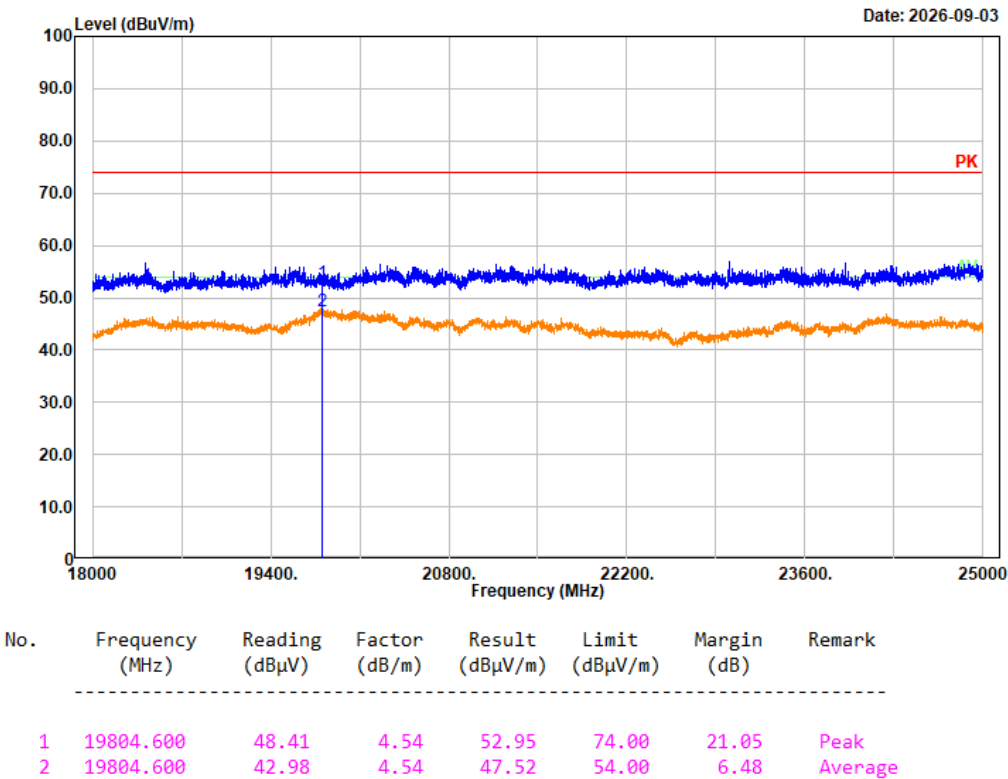


No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Remark
1	7206.000	41.52	9.84	51.36	74.00	22.64	Peak
2	7206.000	29.15	9.84	38.99	54.00	15.01	Average
3	17772.000	40.29	21.26	61.55	74.00	12.45	Peak
4	17772.000	26.08	21.26	47.34	54.00	6.66	Average

Test Plots for 18GHz ~ 25GHz:

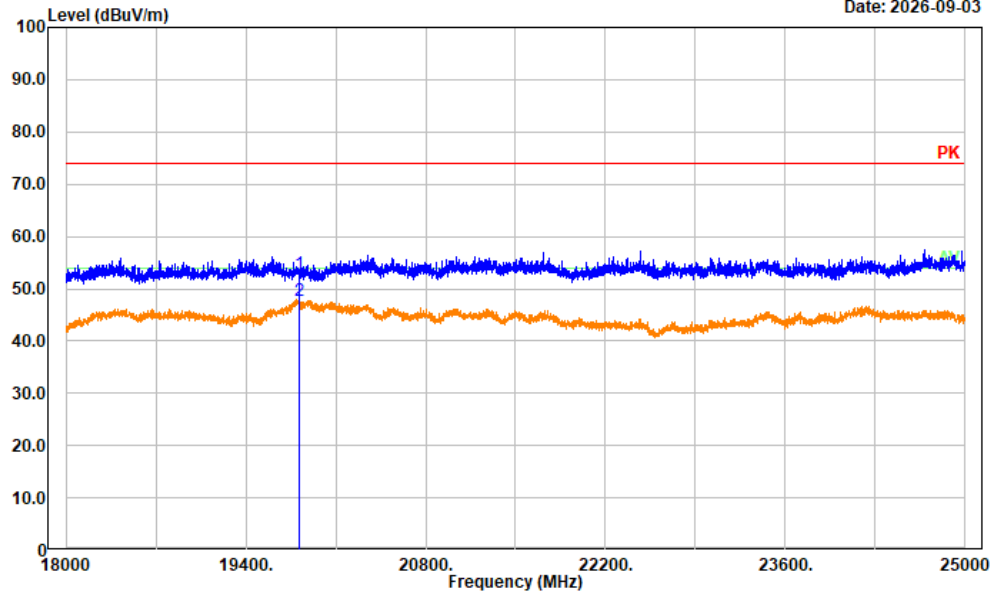
Note: The test was performed under the maximum conducted output power mode and channel (3EDR Mode (8DPSK, 3DH1) mode High Channel).

Project No: 2603W28862E-RF
Tester: Rika Lu
Condition: PK trace RBW:1MHz; VBW:3MHz; AV trace RBW:1MHz; VBW:5kHz
Polarization: Horizontal
Note: EDR(3DH5) Mode High Channel 2480MHz



Project No: 2603W28862E-RF
Tester: Rika Lu
Condition: PK trace RBW:1MHz; VBW:3MHz; AV trace RBW:1MHz; VBW:5kHz
Polarization: Vertical
Note: EDR(3DH5) Mode High Channel 2480MHz

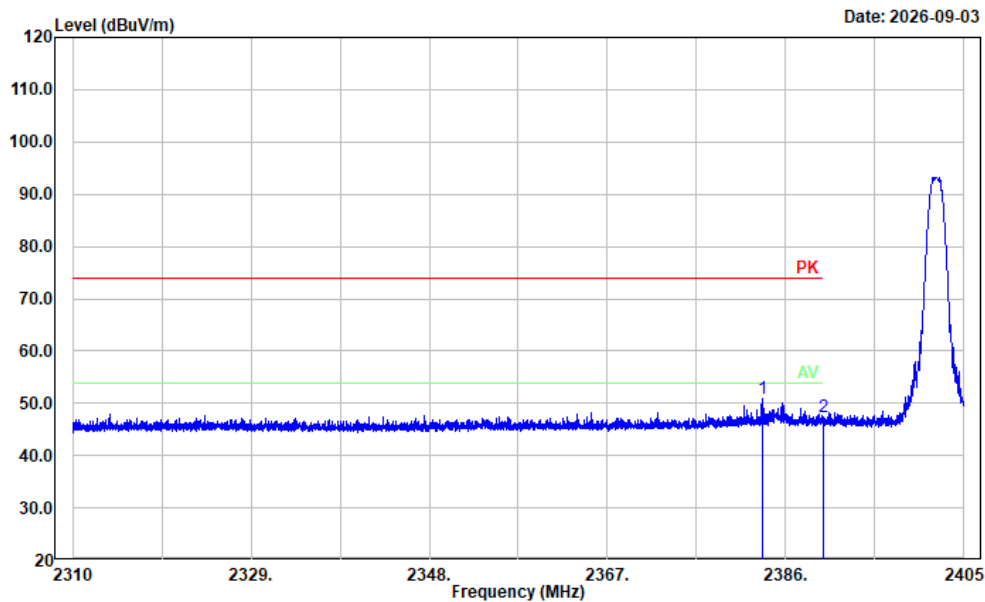
Date: 2026-09-03



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Remark
1	19814.400	46.25	6.65	52.90	74.00	21.10	Peak
2	19814.400	41.01	6.65	47.66	54.00	6.34	Average

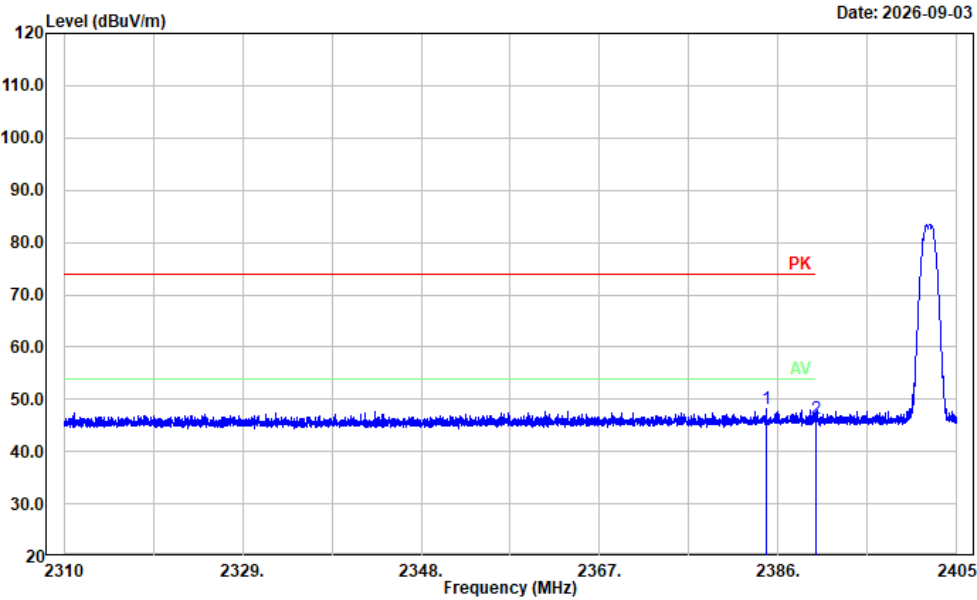
Band Edge Test Plots

Project No: 2603W28862E-RF
Tester: Rika Lu
Condition: PK trace RBW:1MHz; VBW:3MHz
Polarization: Horizontal
Note: BDR(DH5) Mode Low Channel 2402MHz



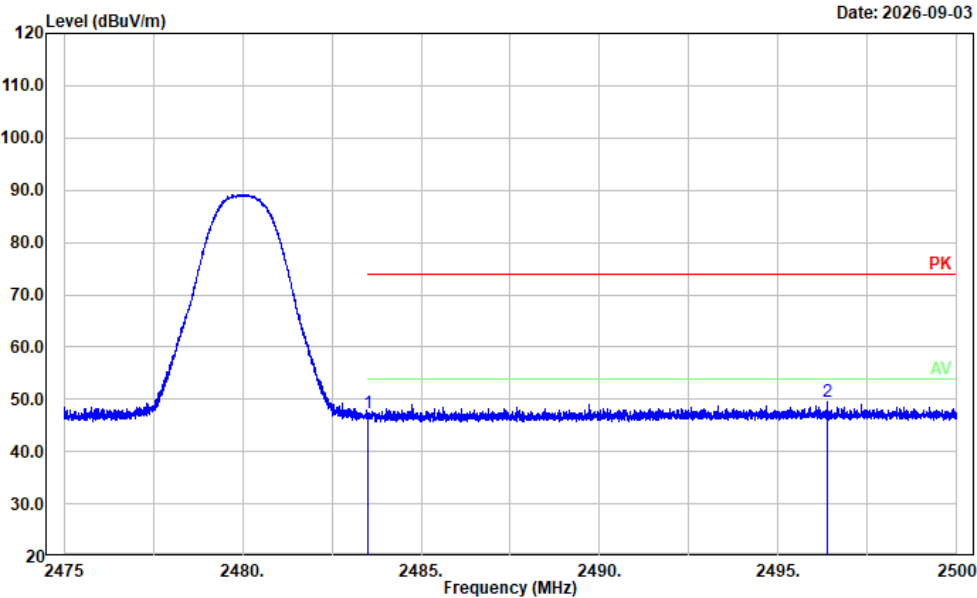
No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Remark
1	2383.492	53.17	-2.17	51.00	74.00	23.00	Peak
2	2390.000	49.37	-2.13	47.24	74.00	26.76	Peak

Project No: 2603W28862E-RF
Tester: Rika Lu
Condition: PK trace RBW:1MHz; VBW:3MHz
Polarization: Vertical
Note: BDR(DH5) Mode Low Channel 2402MHz



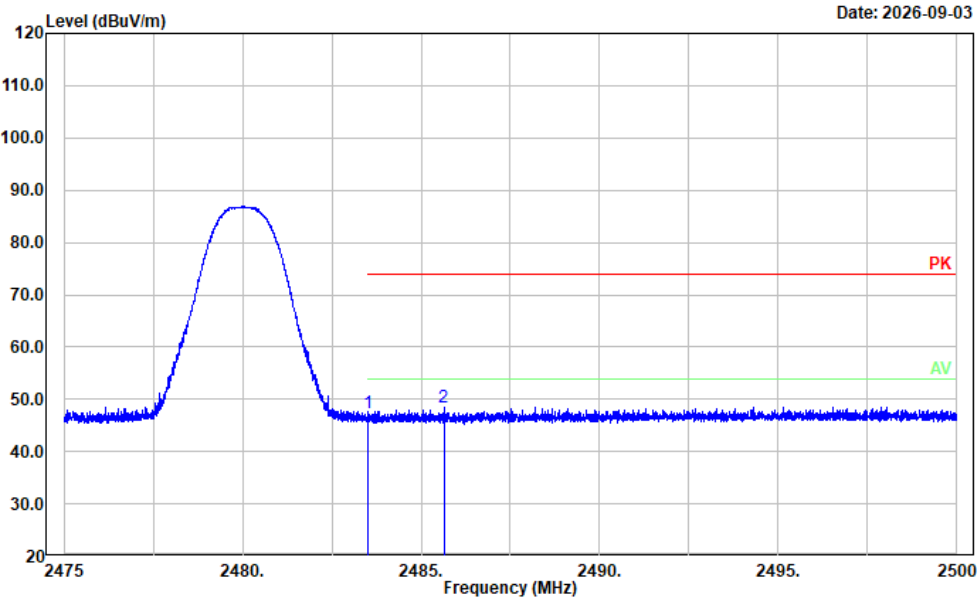
No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Remark
1	2384.670	50.37	-2.16	48.21	74.00	25.79	Peak
2	2390.000	48.50	-2.13	46.37	74.00	27.63	Peak

Project No: 2603W28862E-RF
Tester: Rika Lu
Condition: PK trace RBW:1MHz; VBW:3MHz
Polarization: Horizontal
Note: BDR(DH5) Mode High Channel 2480MHz



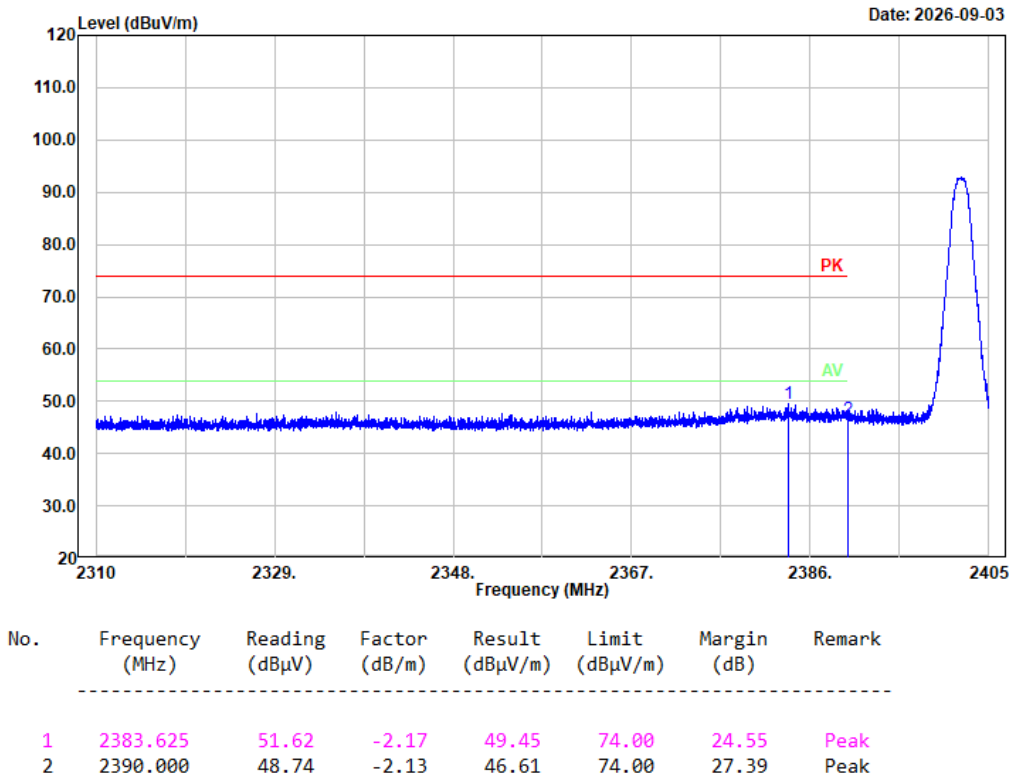
No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Remark
1	2483.500	49.66	-2.17	47.49	74.00	26.51	Peak
2	2496.385	51.73	-2.11	49.62	74.00	24.38	Peak

Project No: 2603W28862E-RF
Tester: Rika Lu
Condition: PK trace RBW:1MHz; VBW:3MHz
Polarization: Vertical
Note: BDR(DH5) Mode High Channel 2480MHz

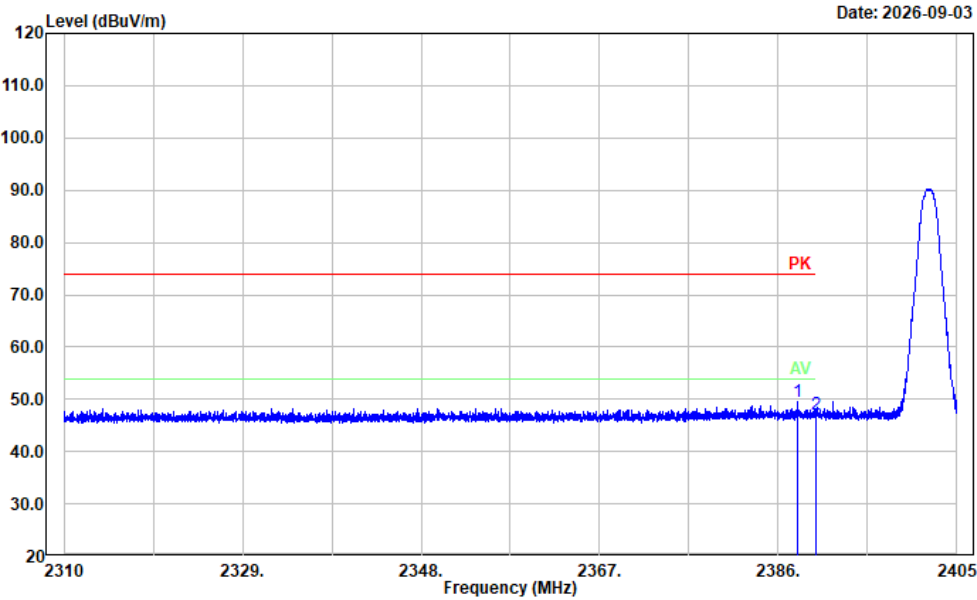


No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Remark
1	2483.500	49.55	-2.17	47.38	74.00	26.62	Peak
2	2485.635	50.71	-2.15	48.56	74.00	25.44	Peak

Project No: 2603W28862E-RF
Tester: Rika Lu
Condition: PK trace RBW:1MHz; VBW:3MHz
Polarization: Horizontal
Note: EDR(2DH5) Mode Low Channel 2402MHz

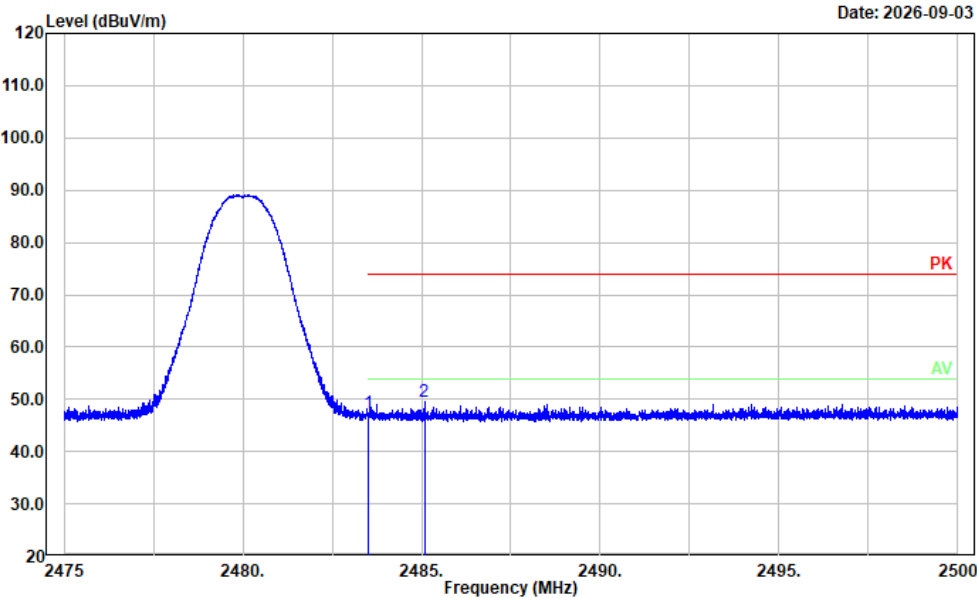


Project No: 2603W28862E-RF
Tester: Rika Lu
Condition: PK trace RBW:1MHz; VBW:3MHz
Polarization: Vertical
Note: EDR(2DH5) Mode Low Channel 2402MHz



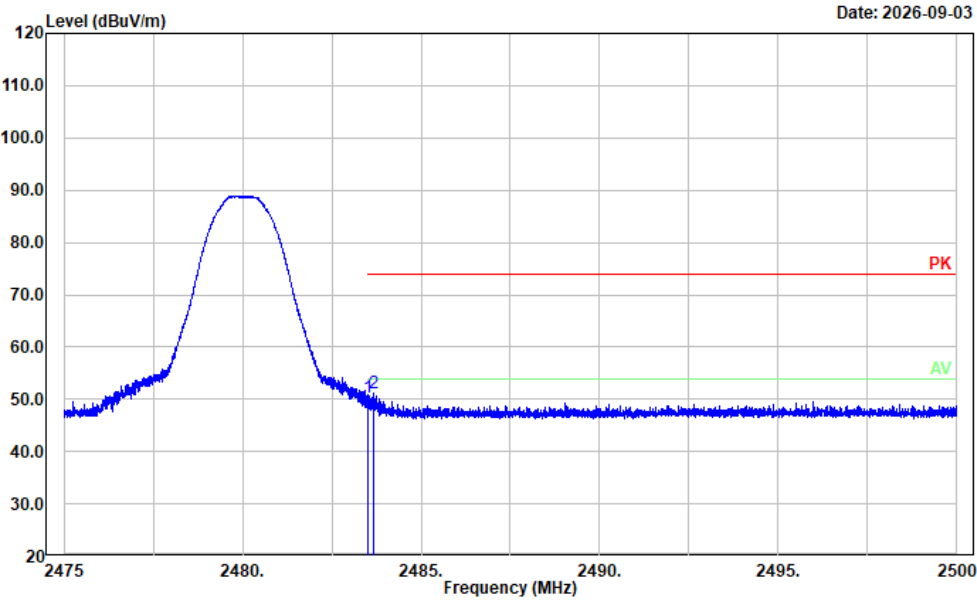
No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Remark
1	2388.071	51.70	-2.14	49.56	74.00	24.44	Peak
2	2390.000	49.11	-2.13	46.98	74.00	27.02	Peak

Project No: 2603W28862E-RF
Tester: Rika Lu
Condition: PK trace RBW:1MHz; VBW:3MHz
Polarization: Horizontal
Note: EDR(2DH5) Mode High Channel 2480MHz



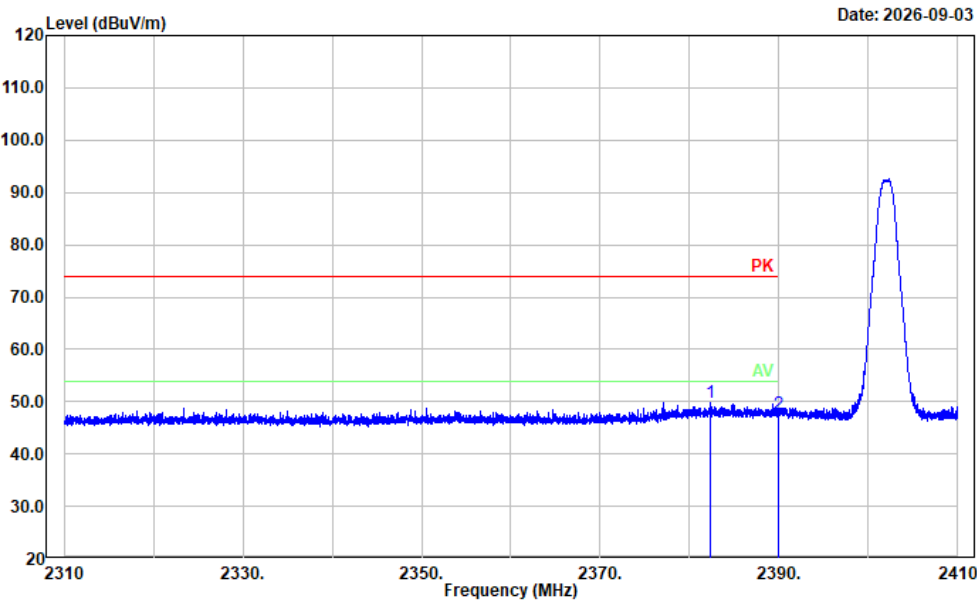
No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Remark
1	2483.500	49.48	-2.17	47.31	74.00	26.69	Peak
2	2485.080	51.63	-2.15	49.48	74.00	24.52	Peak

Project No: 2603W28862E-RF
Tester: Rika Lu
Condition: PK trace RBW:1MHz; VBW:3MHz
Polarization: Vertical
Note: EDR(2DH5) Mode High Channel 2480MHz



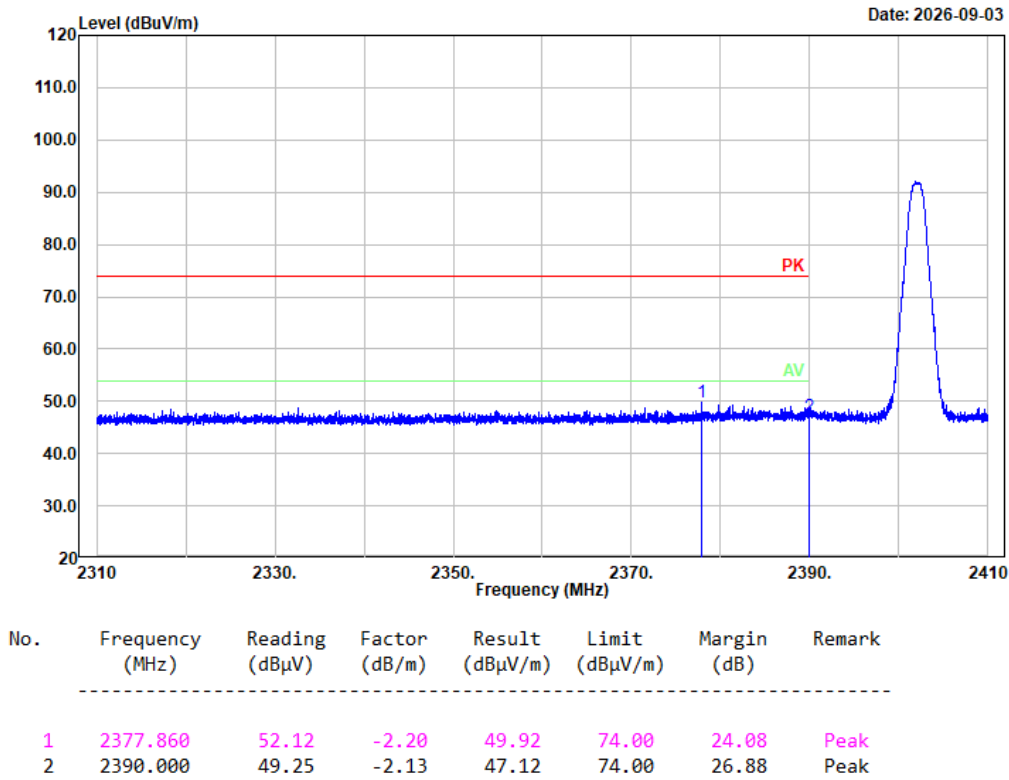
No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Remark
1	2483.500	52.51	-2.17	50.34	74.00	23.66	Peak
2	2483.675	53.22	-2.17	51.05	74.00	22.95	Peak

Project No: 2603W28862E-RF
Tester: Rika Lu
Condition: PK trace RBW:1MHz; VBW:3MHz
Polarization: Horizontal
Note: EDR(3DH5) Mode Low Channel 2402MHz

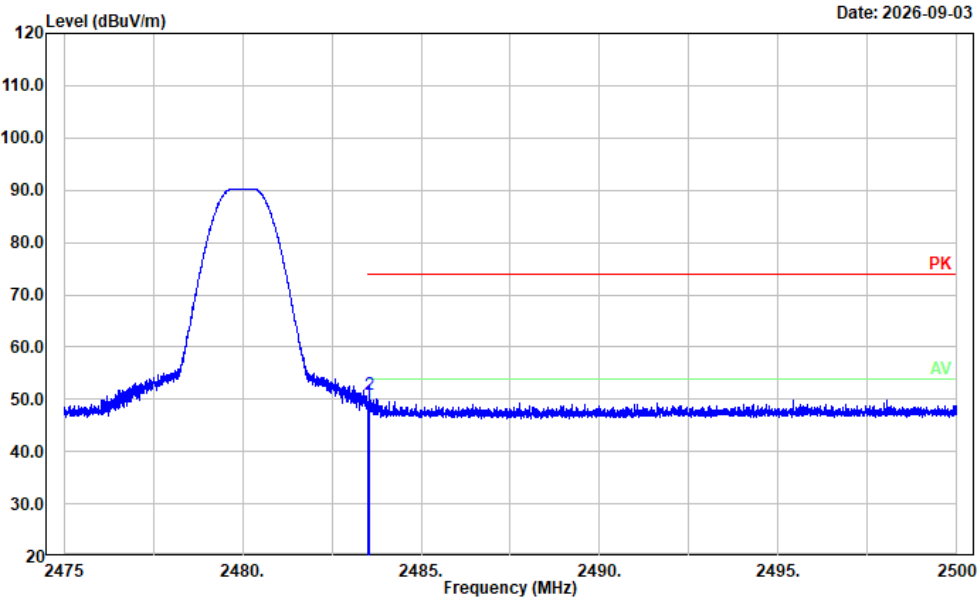


No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Remark
1	2382.260	52.01	-2.17	49.84	74.00	24.16	Peak
2	2390.000	49.69	-2.13	47.56	74.00	26.44	Peak

Project No: 2603W28862E-RF
Tester: Rika Lu
Condition: PK trace RBW:1MHz; VBW:3MHz
Polarization: Vertical
Note: EDR(3DH5) Mode Low Channel 2402MHz

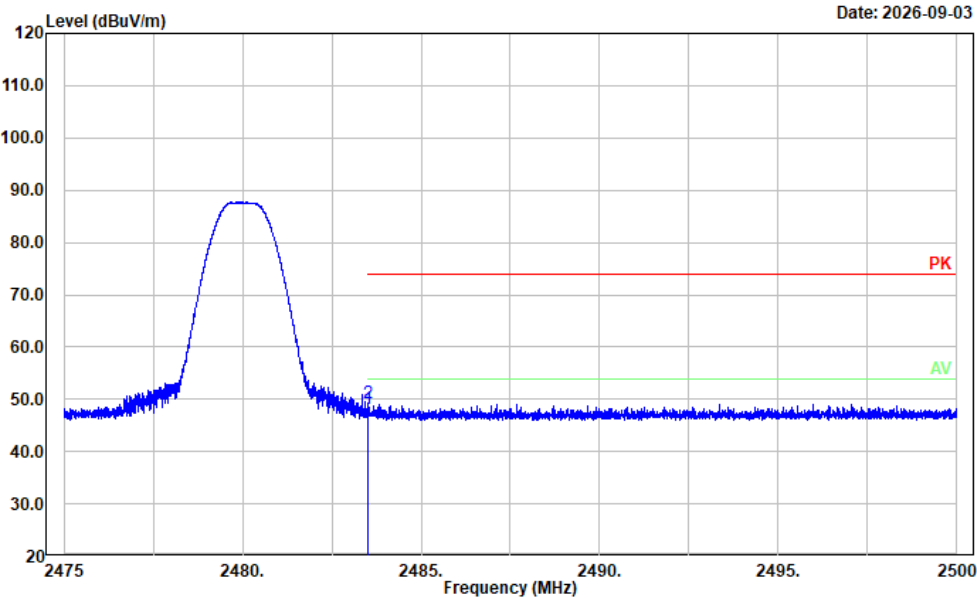


Project No: 2603W28862E-RF
Tester: Rika Lu
Condition: PK trace RBW:1MHz; VBW:3MHz
Polarization: Horizontal
Note: EDR(3DH5) Mode High Channel 2480MHz



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Remark
1	2483.500	51.41	-2.17	49.24	74.00	24.76	Peak
2	2483.550	52.96	-2.17	50.79	74.00	23.21	Peak

Project No: 2603W28862E-RF
Tester: Rika Lu
Condition: PK trace RBW:1MHz; VBW:3MHz
Polarization: Vertical
Note: EDR(3DH5) Mode High Channel 2480MHz



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Remark
1	2483.500	50.40	-2.17	48.23	74.00	25.77	Peak
2	2483.530	51.38	-2.17	49.21	74.00	24.79	Peak

4.3 20 dB Emission Bandwidth

Sample Number:	3SCI-2	Test Date:	2026/08/30
Test Site:	RF	Test Mode:	Transmitting
Tester:	Zoey Song	Test Result:	N/A

Environmental Conditions:					
Temperature: (°C)	25.2	Relative Humidity: (%)	68	ATM Pressure: (kPa)	99.3

Test Equipment List and Details:

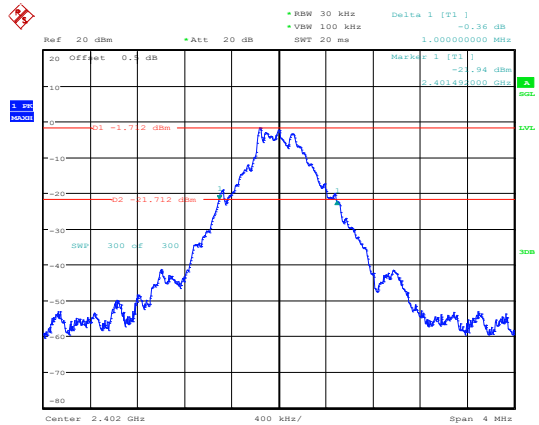
Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSU26	200445	2025/11/10	2026/11/09
JD	Test software	JD Auto Test System	V1.0	N/A	N/A

* Statement of Traceability: China Certification ICT Co., Ltd (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Test Data:

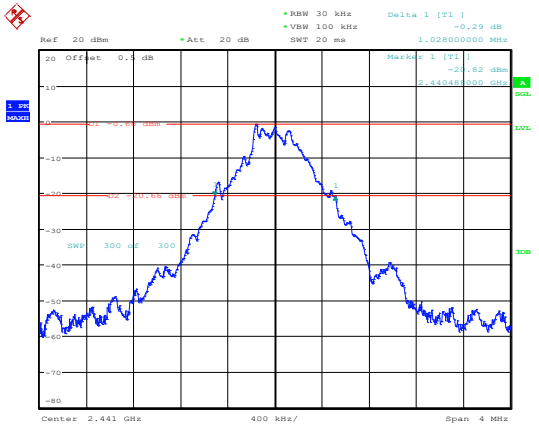
Mode	Channel	Result (MHz)
DH1	Low	1
	Middle	1.028
	High	1.044
2DH1	Low	1.292
	Middle	1.304
	High	1.304
3DH1	Low	1.264
	Middle	1.268
	High	1.276

DH1_Low



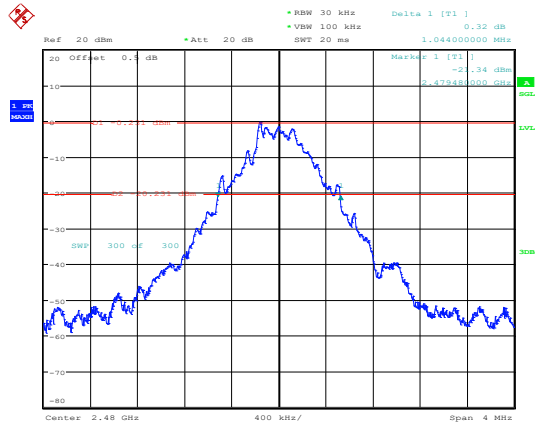
ProjectNo.:2603W28862E-RF Tester:Zoey Song
Date: 30.AUG.2026 09:33:35

DH1_Middle



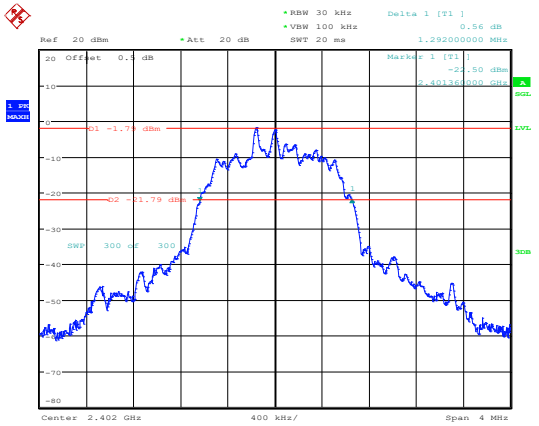
ProjectNo.:2603W28862E-RF Tester:Zoey Song
Date: 30.AUG.2026 09:36:40

DH1_High



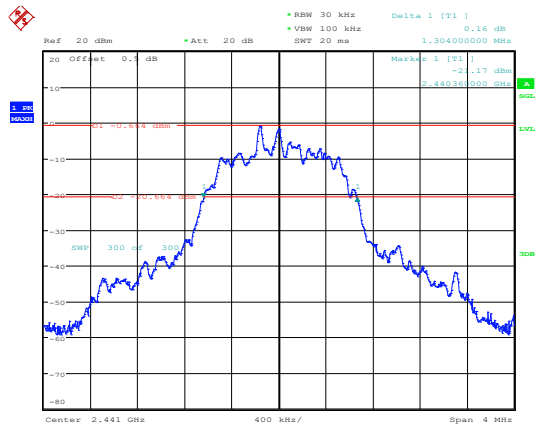
ProjectNo.:2603W28862E-RF Tester:Zoey Song
Date: 30.AUG.2026 09:39:14

2DH1_Low



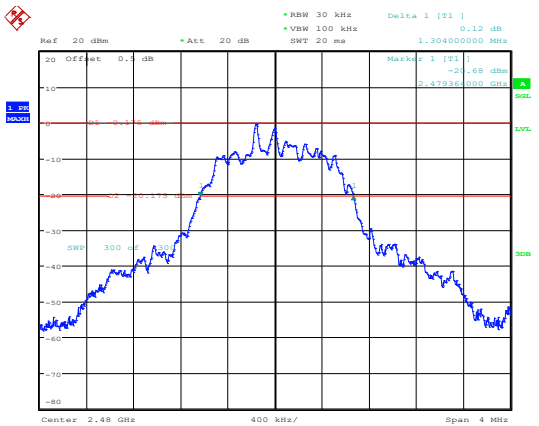
ProjectNo.:2603W28862E-RF Tester:Zoey Song
Date: 30.AUG.2026 09:42:14

2DH1_Middle



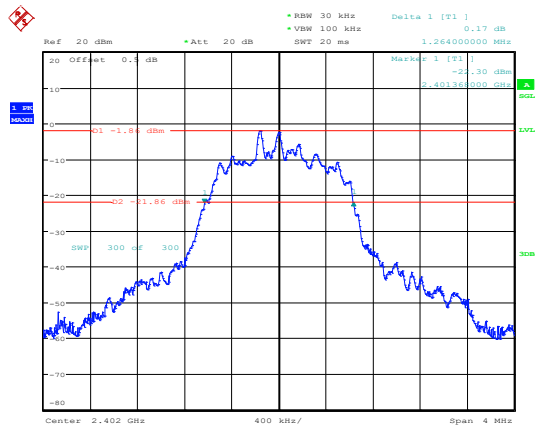
ProjectNo.:2603W28862E-RF Tester:Zoey Song
Date: 30.AUG.2026 09:45:13

2DH1_High



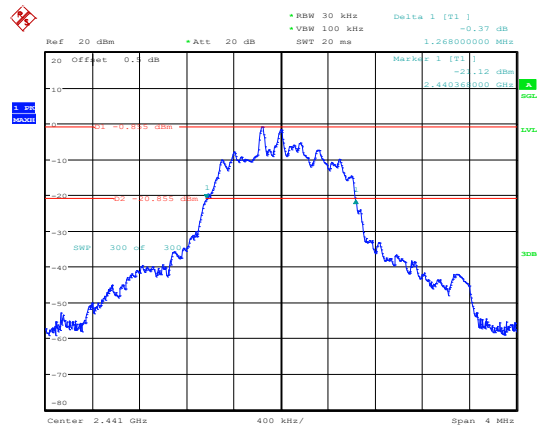
ProjectNo.:2603W28862E-RF Tester:Zoey Song
Date: 30.AUG.2026 09:47:49

3DH1_Low



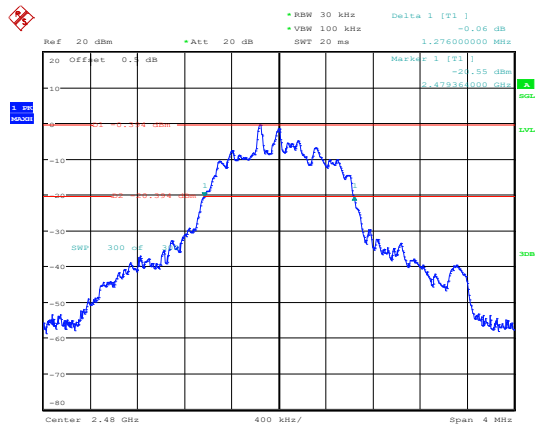
ProjectNo.:2603W28862E-RF Tester:Zoey Song
Date: 30.AUG.2026 09:50:46

3DH1_Middle



ProjectNo.:2603W28862E-RF Tester:Zoey Song
Date: 30.AUG.2026 09:54:35

3DH1_High



ProjectNo.:2603W28862E-RF Tester:Zoey Song
Date: 30.AUG.2026 09:57:13

4.4 99% Occupied Bandwidth

Sample Number:	3SCI-2	Test Date:	2026/08/30
Test Site:	RF	Test Mode:	Transmitting
Tester:	Zoey Song	Test Result:	N/A

Environmental Conditions:					
Temperature: (°C)	25.2	Relative Humidity: (%)	68	ATM Pressure: (kPa)	99.3

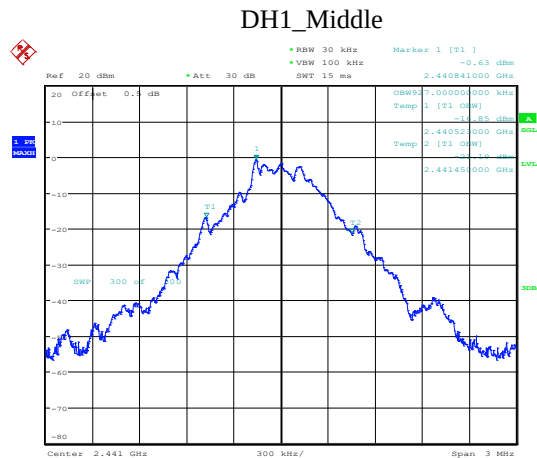
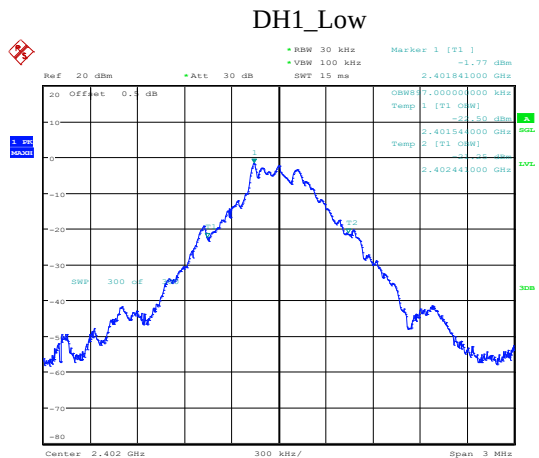
Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSU26	200445	2025/11/10	2026/11/09
JD	Test software	JD Auto Test System	V1.0	N/A	N/A

* Statement of Traceability: China Certification ICT Co., Ltd (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

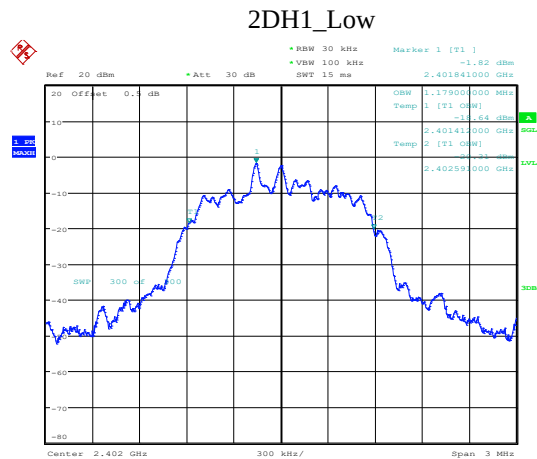
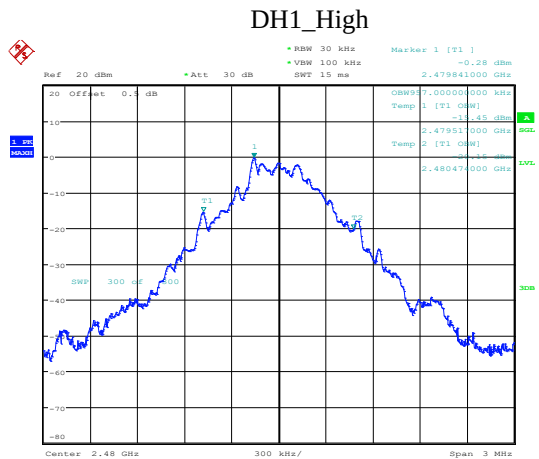
Test Data:

Mode	Channel	99% OBW (MHz)
DH1	Low	0.897
	Middle	0.927
	High	0.957
2DH1	Low	1.179
	Middle	1.206
	High	1.227
3DH1	Low	1.173
	Middle	1.185
	High	1.200



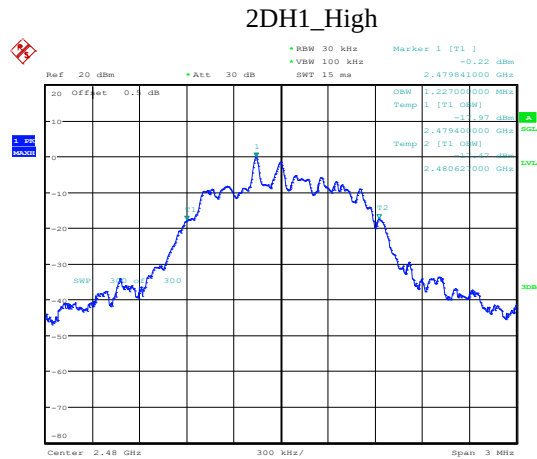
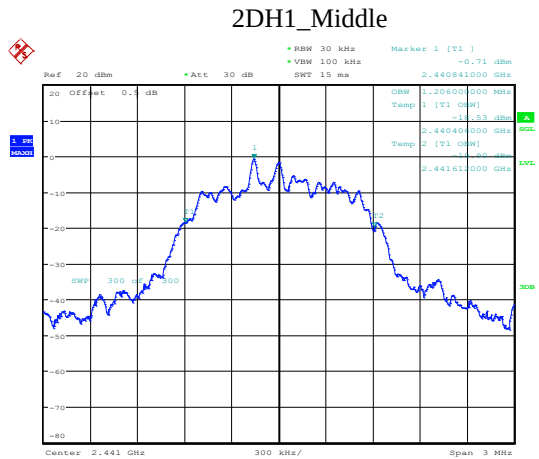
ProjectNo.:2603W28862E-RF Tester:Zoey Song
Date: 30.AUG.2026 09:34:00

ProjectNo.:2603W28862E-RF Tester:Zoey Song
Date: 30.AUG.2026 09:37:03



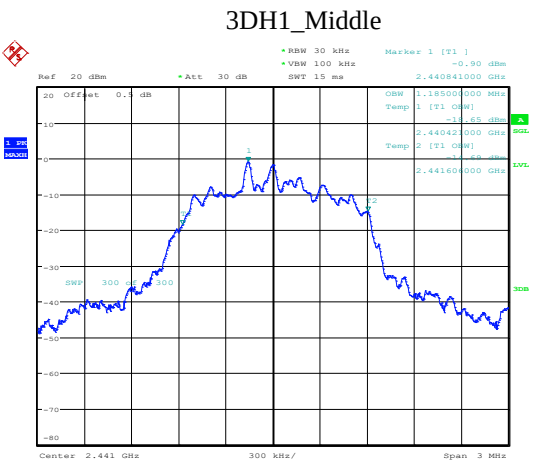
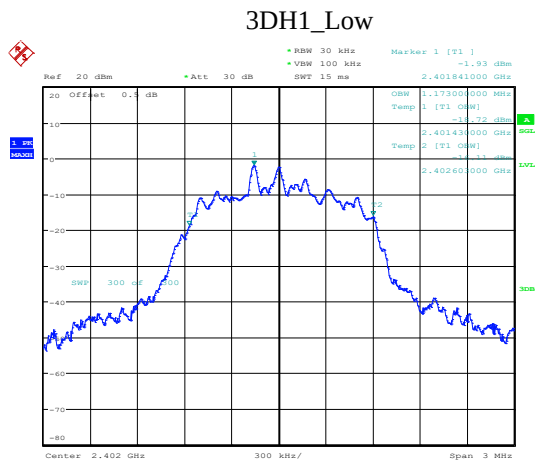
ProjectNo.:2603W28862E-RF Tester:Zoey Song
Date: 30.AUG.2026 09:39:36

ProjectNo.:2603W28862E-RF Tester:Zoey Song
Date: 30.AUG.2026 09:42:40



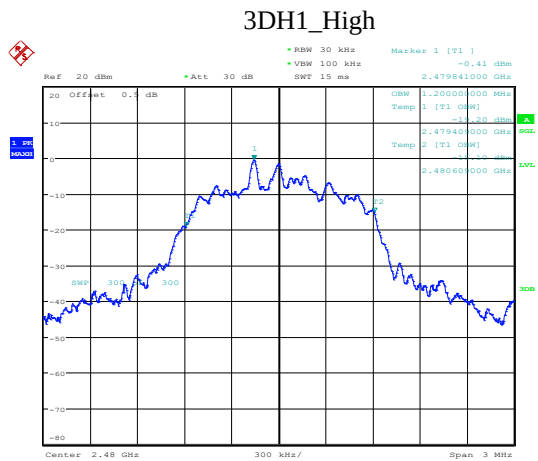
ProjectNo.:2603W28862E-RF Tester:Zoey Song
Date: 30.AUG.2026 09:45:38

ProjectNo.:2603W28862E-RF Tester:Zoey Song
Date: 30.AUG.2026 09:48:12



ProjectNo.:2603W28862E-RF Tester:Zoey Song
Date: 30.AUG.2026 09:51:09

ProjectNo.:2603W28862E-RF Tester:Zoey Song
Date: 30.AUG.2026 09:54:59



ProjectNo.:2603W28862E-RF Tester:Zoey Song
Date: 30.AUG.2026 09:57:35

4.5 Channel Separation

Sample Number:	3SCI-2	Test Date:	2026/08/30
Test Site:	RF	Test Mode:	Transmitting
Tester:	Zoey Song	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	25.2	Relative Humidity: (%)	68	ATM Pressure: (kPa)	99.3
----------------------	------	---------------------------	----	------------------------	------

Test Equipment List and Details:

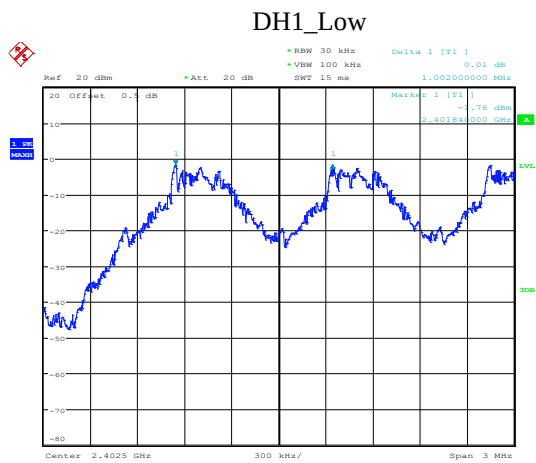
Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSU26	200445	2025/11/10	2026/11/09
JD	Test software	JD Auto Test System	V1.0	N/A	N/A

* Statement of Traceability: China Certification ICT Co., Ltd (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

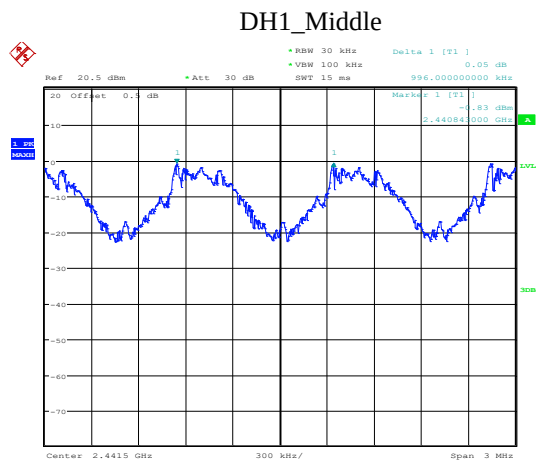
Test Data:

Mode	Channel	Result (MHz)	Limit (MHz)	Verdict
DH1	Low	1.002	0.869	Pass
	Middle	0.996	0.869	Pass
	High	1.005	0.869	Pass

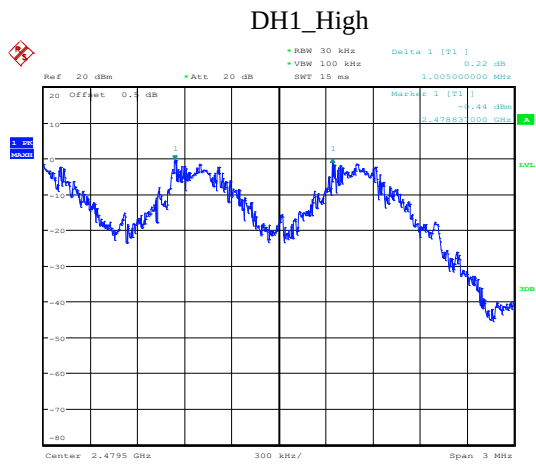
Note: Only the BDR (GFSK) mode result is reported since EDR ($\pi/4$ -DQPSK) and EDR (8DPSK) modes have the exact same channel plan, and the limit is the maximum 20dB bandwidth *2/3.



ProjectNo.:2603W28862E-RF Tester:Zoey Song
Date: 30.AUG.2026 10:21:20



ProjectNo.:2603W28862E-RF Tester:Zoey Song
Date: 30.AUG.2026 10:49:28



ProjectNo.:2603W28862E-RF Tester:Zoey Song
Date: 30.AUG.2026 10:26:34

Sample Number:	3SCI-2	Test Date:	2026/08/30
Test Site:	RF	Test Mode:	Transmitting
Tester:	Zoey Song	Test Result:	Pass

Temperature: (°C)	25.2	Relative Humidity: (%)	68	ATM Pressure: (kPa)	99.3
----------------------	------	---------------------------	----	------------------------	------

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSU26	200445	2025/11/10	2026/11/09
JD	Test software	JD Auto Test System	V1.0	N/A	N/A

Mode	Channel	Result	Limit	Verdict
DH1	Hopping	79	15	Pass

DH1_Hopping

• RBW 100 kHz Marker 2 [F1] 0.14 dBm
 • VBW 300 kHz 2.471692500 GHz
 SWR 10 dB

Ref 20 dBm *Att 30 dB

20 Offset 0.5 dB

Max Hold 1 [F1] -1.11 dBm
 2.401333000 GHz

Def 1 1 [F1] -1.02 dBm

Center 2.44175 GHz 0.35 MHz/ Span 3.5 MHz

ProjectNo.:12603W28862E-RF Tester:Zowey Song
 Date: 30.AUG.2026 11:41:45

4.7 Time of Occupancy (Dwell Time)

Sample Number:	3SCI-2	Test Date:	2026/08/30
Test Site:	RF	Test Mode:	Transmitting
Tester:	Zoey Song	Test Result:	Pass

Environmental Conditions:					
Temperature: (°C)	25.2	Relative Humidity: (%)	68	ATM Pressure: (kPa)	99.3

Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSU26	200445	2025/11/10	2026/11/09
JD	Test software	JD Auto Test System	V1.0	N/A	N/A

* Statement of Traceability: China Certification ICT Co., Ltd (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

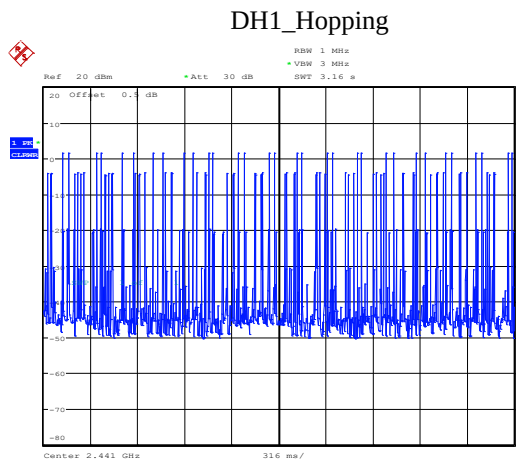
Test Data:

Test Mode	Channel	Burst Width (ms)	Total Hops (Num)	Result (s)	Limit (s)	Verdict
DH1	Hopping	0.387	320	0.124	≤ 0.4	Pass
DH3	Hopping	1.653	130	0.215	≤ 0.4	Pass
DH5	Hopping	2.925	120	0.351	≤ 0.4	Pass
2DH1	Hopping	0.398	320	0.127	≤ 0.4	Pass
2DH3	Hopping	1.654	150	0.248	≤ 0.4	Pass
2DH5	Hopping	2.930	130	0.381	≤ 0.4	Pass
3DH1	Hopping	0.398	320	0.127	≤ 0.4	Pass
3DH3	Hopping	1.656	150	0.248	≤ 0.4	Pass
3DH5	Hopping	2.928	100	0.293	≤ 0.4	Pass

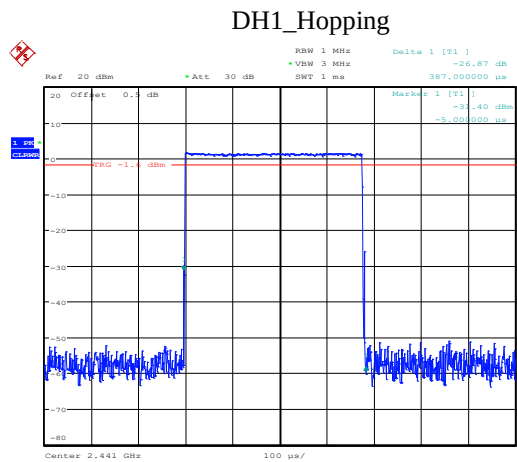
Note 1: A period time = $0.4 \times 79 = 31.6(S)$, Result = Burst Width * Total hops

Note 2: Total hops = Hopping Number in $3.16s \times 10$

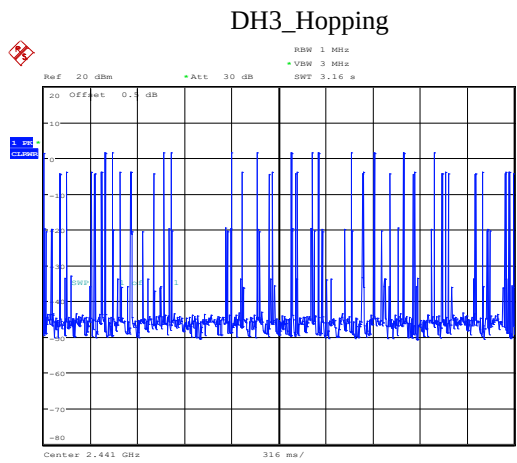
Note 3: Hopping Number in $3.16s$ = Total of highest signals in $3.16s$ (Second high signals were another channel)



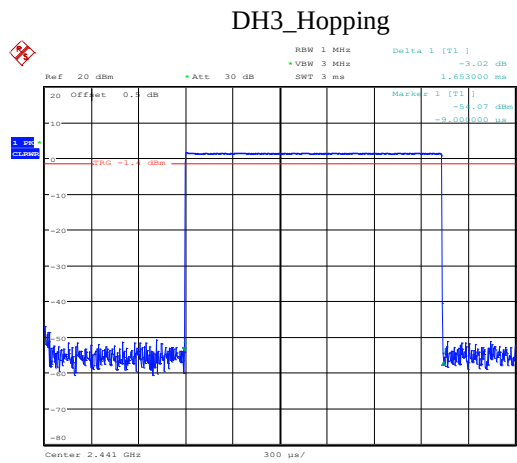
ProjectNo.:2603W28862E-RF Tester:Zoey Song
Date: 30.AUG.2026 10:50:12



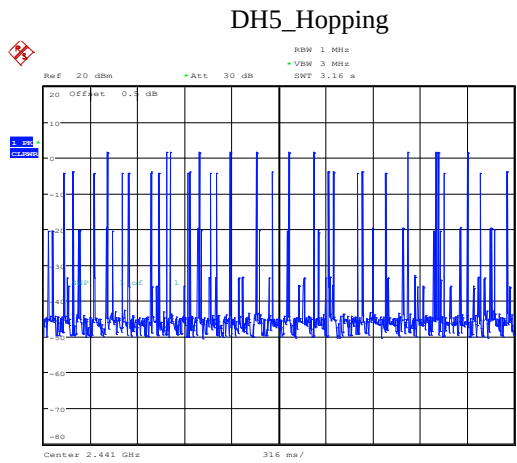
ProjectNo.:2603W28862E-RF Tester:Zoey Song
Date: 30.AUG.2026 10:51:25



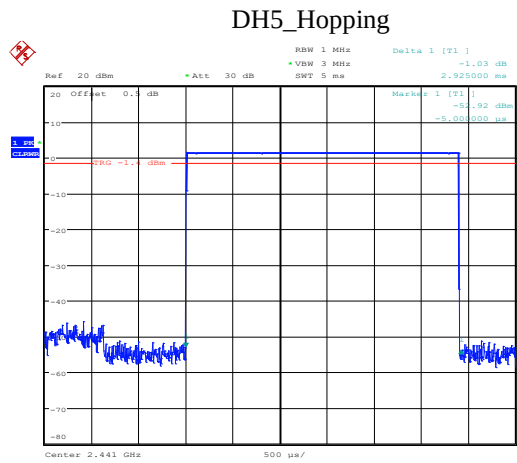
ProjectNo.:2603W28862E-RF Tester:Zoey Song
Date: 30.AUG.2026 10:51:49



ProjectNo.:2603W28862E-RF Tester:Zoey Song
Date: 30.AUG.2026 10:52:43

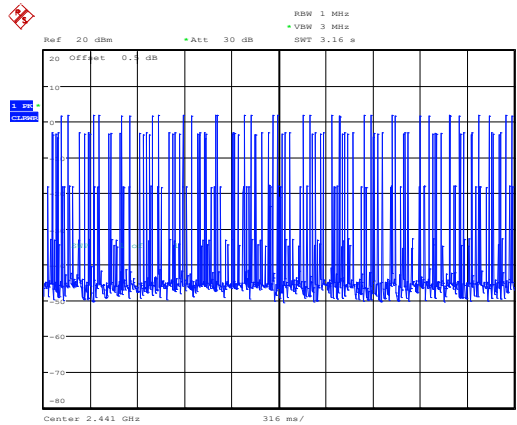


ProjectNo.:2603W28862E-RF Tester:Zoey Song
Date: 30.AUG.2026 14:24:23



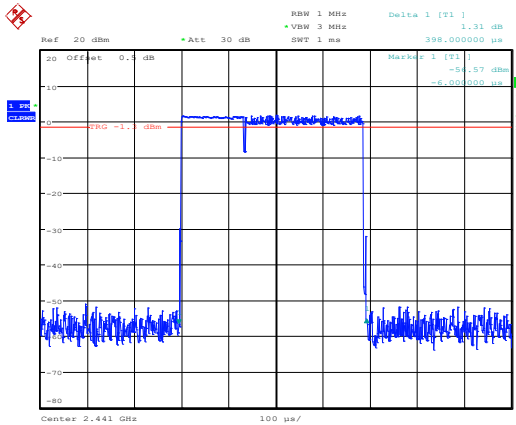
ProjectNo.:2603W28862E-RF Tester:Zoey Song
Date: 30.AUG.2026 14:24:56

2DH1_Hopping



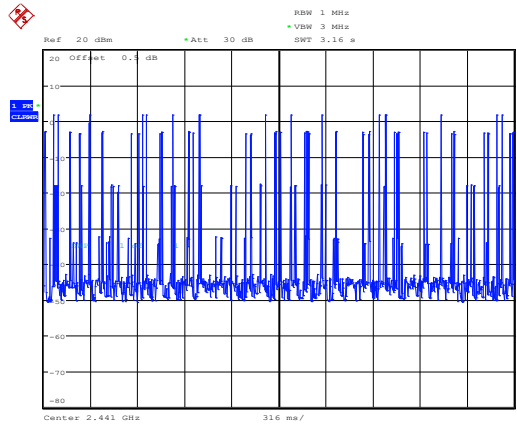
ProjectNo.:2603W28862E-RF Tester:Zoey Song
Date: 30.AUG.2026 10:54:39

2DH1_Hopping



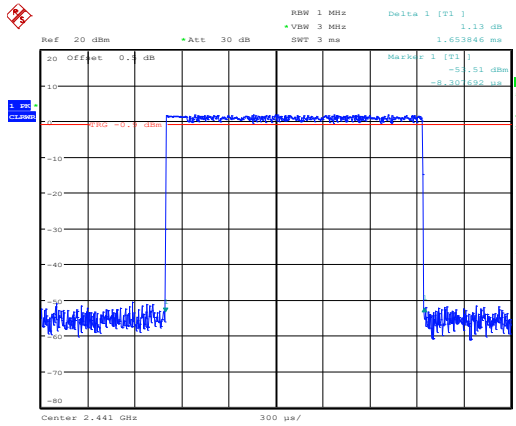
ProjectNo.:2603W28862E-RF Tester:Zoey Song
Date: 30.AUG.2026 10:55:07

2DH3_Hopping



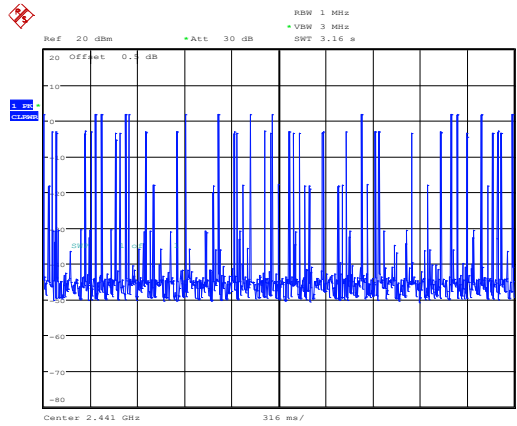
ProjectNo.:2603W28862E-RF Tester:Zoey Song
Date: 30.AUG.2026 14:30:45

2DH3_Hopping



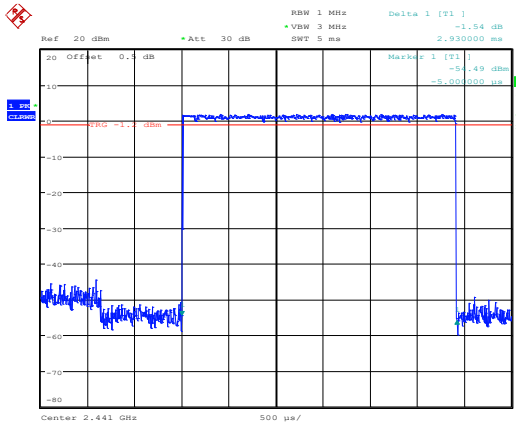
ProjectNo.:2603W28862E-RF Tester:Zoey Song
Date: 30.AUG.2026 15:14:57

2DH5_Hopping



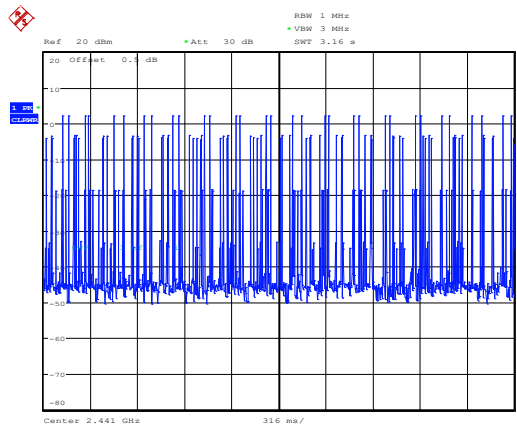
ProjectNo.:2603W28862E-RF Tester:Zoey Song
Date: 30.AUG.2026 10:57:22

2DH5_Hopping



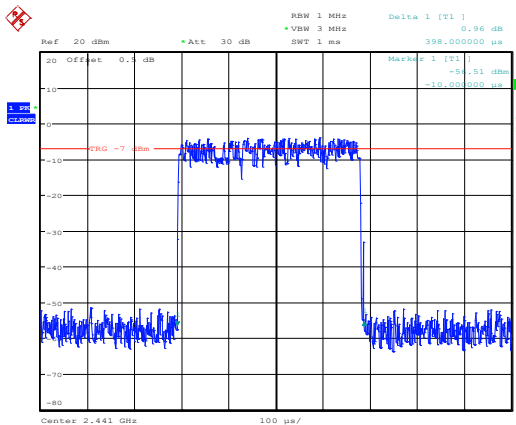
ProjectNo.:2603W28862E-RF Tester:Zoey Song
Date: 30.AUG.2026 10:57:52

3DH1_Hopping



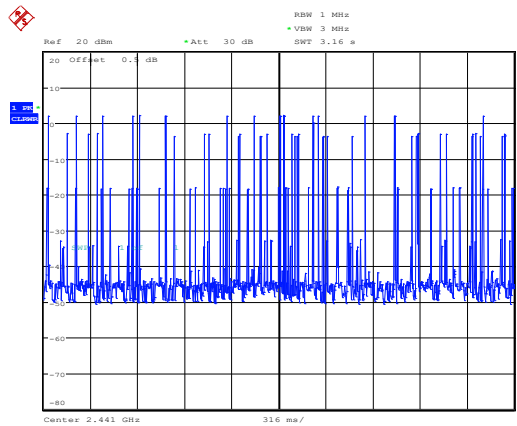
ProjectNo.:2603W28862E-RF Tester:Zoey Song
Date: 30.AUG.2026 10:58:29

3DH1_Hopping



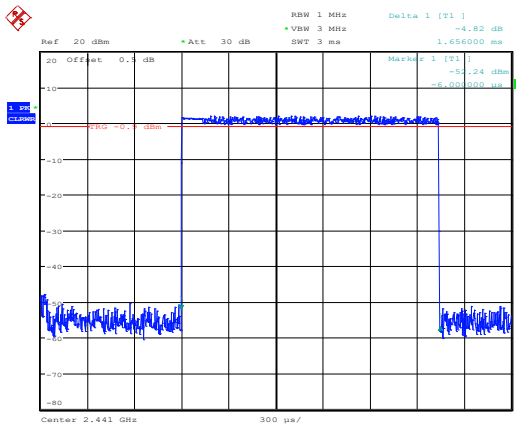
ProjectNo.:2603W28862E-RF Tester:Zoey Song
Date: 30.AUG.2026 10:59:04

3DH3_Hopping



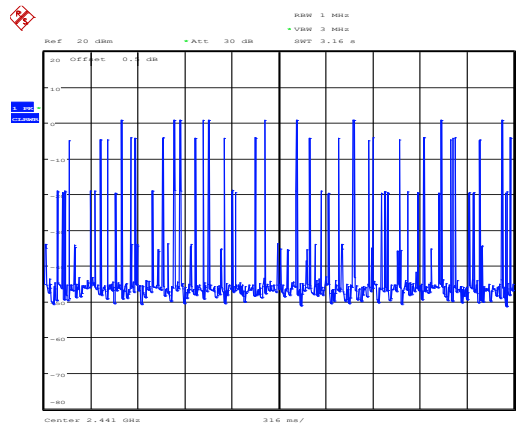
ProjectNo.:2603W28862E-RF Tester:Zoey Song
Date: 30.AUG.2026 11:02:30

3DH3_Hopping



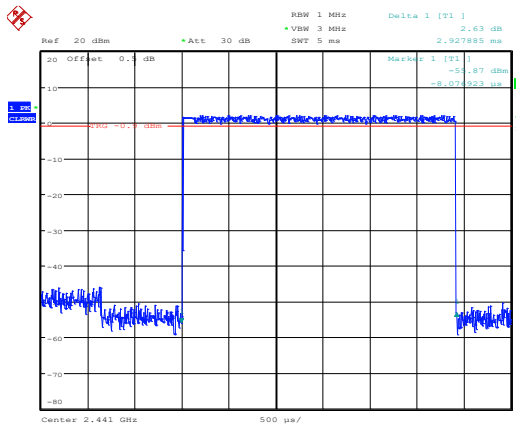
ProjectNo.:2603W28862E-RF Tester:Zoey Song
Date: 30.AUG.2026 11:02:51

3DH5_Hopping



ProjectNo.:2603W28862E-RF Tester:Zoey Song
Date: 30.AUG.2026 15:35:31

3DH5_Hopping



ProjectNo.:2603W28862E-RF Tester:Zoey Song
Date: 30.AUG.2026 15:12:19

4.8 Maximum Conducted Output Power

Sample Number:	3SCI-2	Test Date:	2026/08/30
Test Site:	RF	Test Mode:	Transmitting
Tester:	Zoey Song	Test Result:	Pass

Environmental Conditions:					
Temperature: (°C)	25.2	Relative Humidity: (%)	68	ATM Pressure: (kPa)	99.3

Test Equipment List and Details:

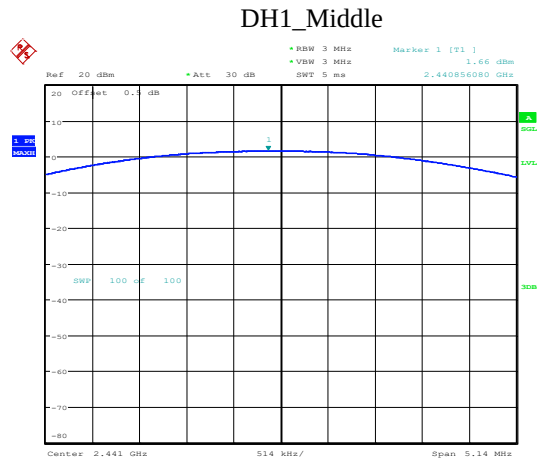
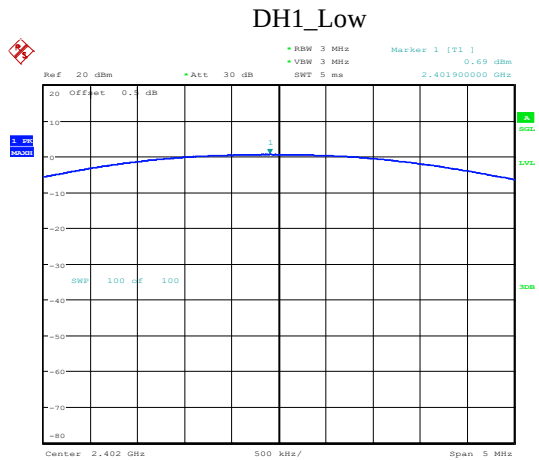
Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSU26	200445	2025/11/10	2026/11/09
JD	Test software	JD Auto Test System	V1.0	N/A	N/A

* Statement of Traceability: China Certification ICT Co., Ltd (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Test Data:

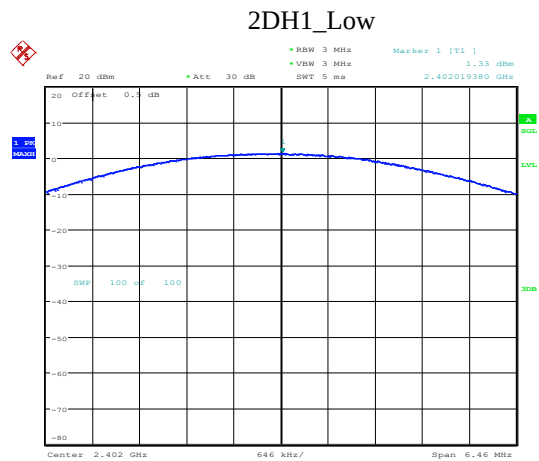
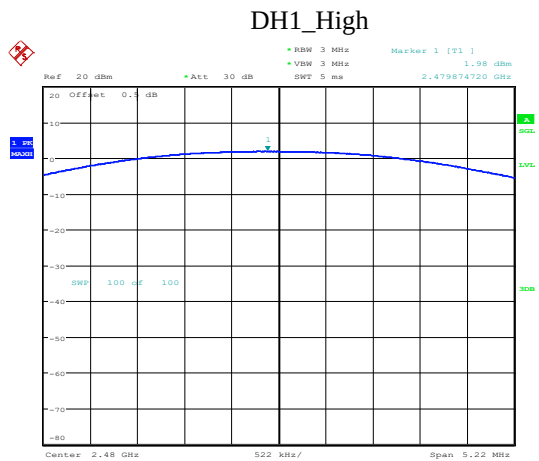
Mode	Test Frequency (MHz)	Peak Output Power (dBm)	Limit (dBm)	Verdict
DH1	2402	0.69	21.00	Pass
	2441	1.66	21.00	Pass
	2480	1.98	21.00	Pass
2DH1	2402	1.33	21.00	Pass
	2441	2.25	21.00	Pass
	2480	2.58	21.00	Pass
3DH1	2402	1.87	21.00	Pass
	2441	2.74	21.00	Pass
	2480	3.01	21.00	Pass
Max. EIRP (dBm)		2.43	36	Pass

Note: EIRP Limit for RSS-247 is 36 dBm.



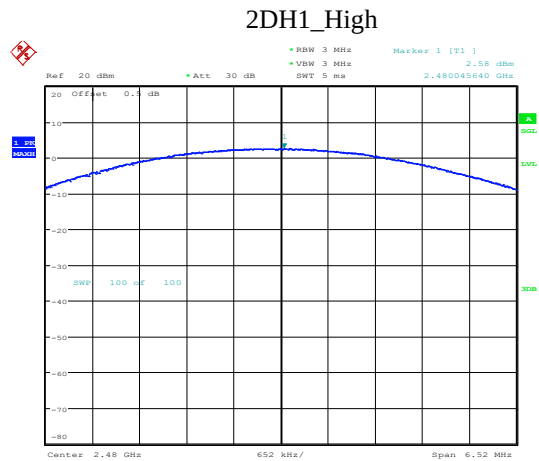
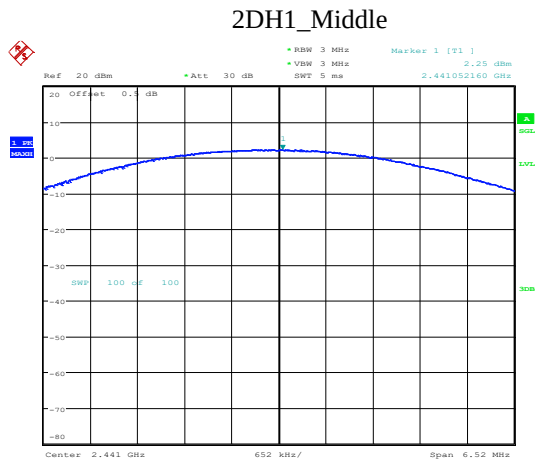
ProjectNo.:2603W28862E-RF Tester:Zoey Song
Date: 30.AUG.2026 09:34:12

ProjectNo.:2603W28862E-RF Tester:Zoey Song
Date: 30.AUG.2026 09:37:14



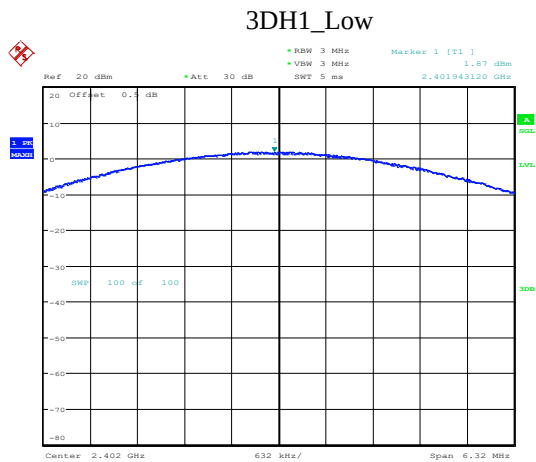
ProjectNo.:2603W28862E-RF Tester:Zoey Song
Date: 30.AUG.2026 09:39:51

ProjectNo.:2603W28862E-RF Tester:Zoey Song
Date: 30.AUG.2026 09:42:53

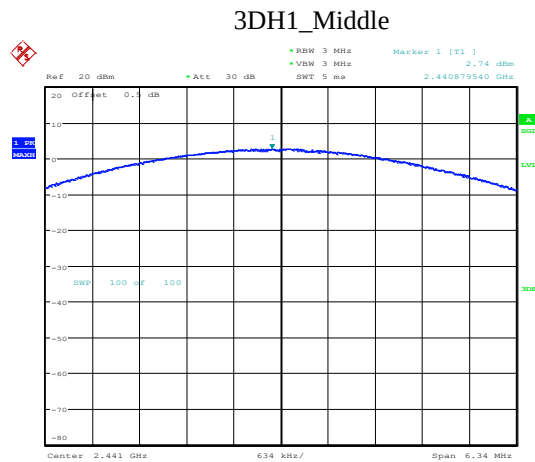


ProjectNo.:2603W28862E-RF Tester:Zoey Song
Date: 30.AUG.2026 09:45:49

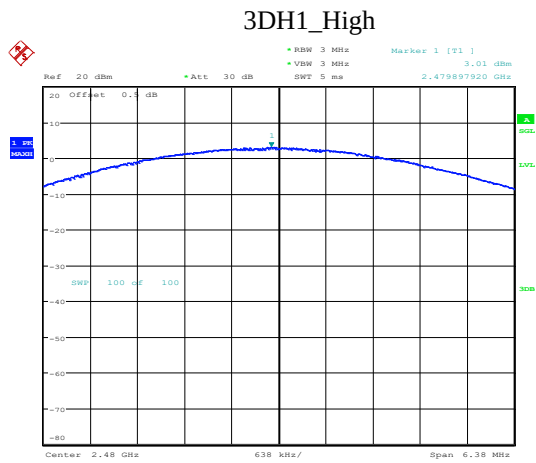
ProjectNo.:2603W28862E-RF Tester:Zoey Song
Date: 30.AUG.2026 09:48:24



ProjectNo.:2603W28862E-RF Tester:Zoey Song
Date: 30.AUG.2026 09:51:23



ProjectNo.:2603W28862E-RF Tester:Zoey Song
Date: 30.AUG.2026 09:55:12



ProjectNo.:2603W28862E-RF Tester:Zoey Song
Date: 30.AUG.2026 09:57:47

4.9 Conducted Spurious Emission

Sample Number:	3SCI-2	Test Date:	2026/08/30
Test Site:	RF	Test Mode:	Transmitting
Tester:	Zoey Song	Test Result:	Pass

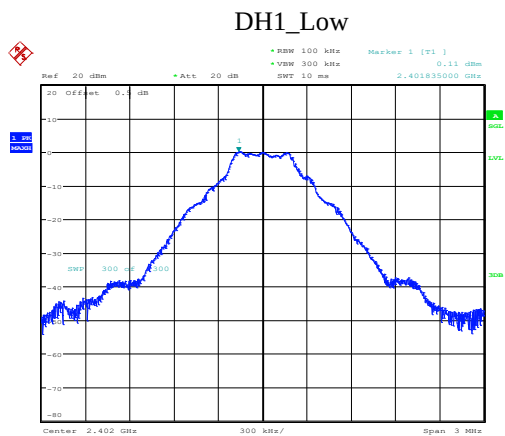
Environmental Conditions:					
Temperature: (°C)	25.2	Relative Humidity: (%)	68	ATM Pressure: (kPa)	99.3

Test Equipment List and Details:

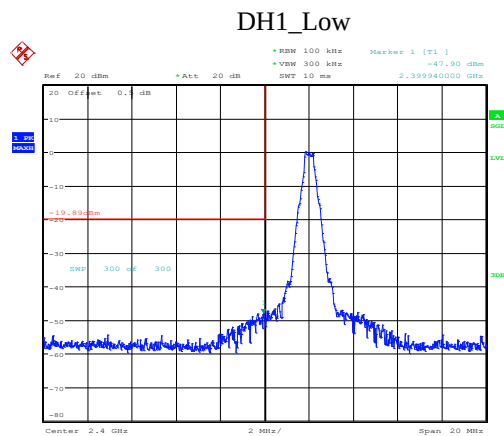
Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSU26	200445	2025/11/10	2026/11/09
JD	Test software	JD Auto Test System	V1.0	N/A	N/A

** Statement of Traceability: China Certification ICT Co., Ltd (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).*

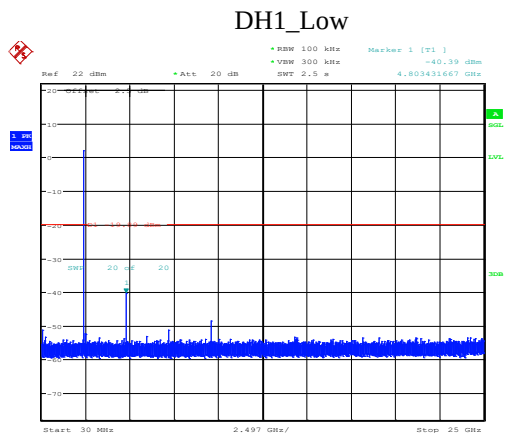
Test Data:



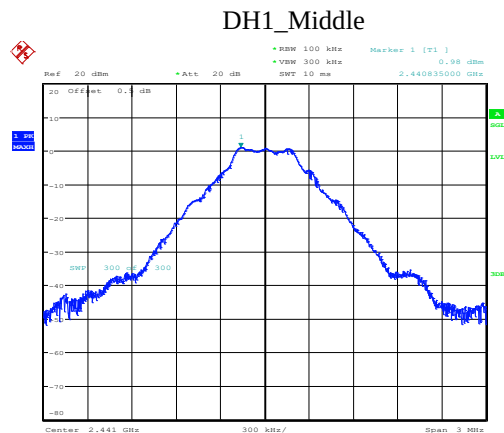
ProjectNo.:2603W28862E-RF Tester:Zoey Song
Date: 30.AUG.2026 09:34:36



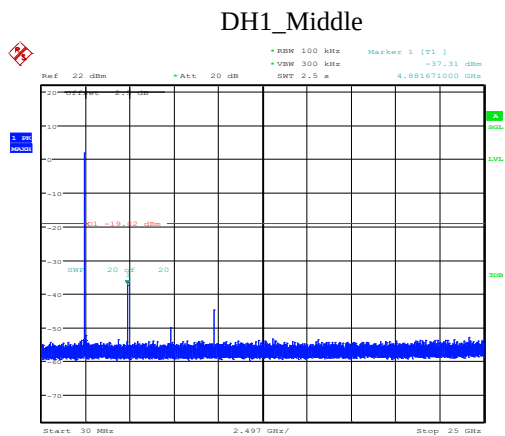
ProjectNo.:2603W28862E-RF Tester:Zoey Song
Date: 30.AUG.2026 09:34:57



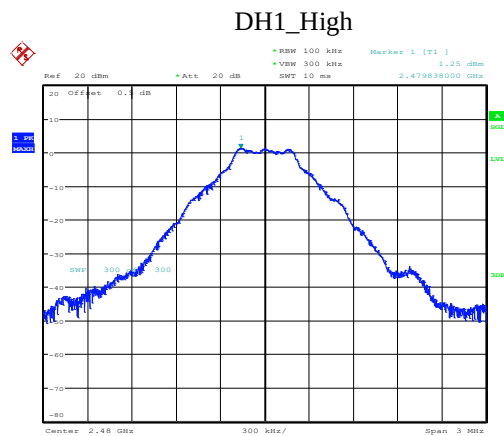
ProjectNo.:2603W28862E-RF Tester:Zoey Song
Date: 30.AUG.2026 09:36:03



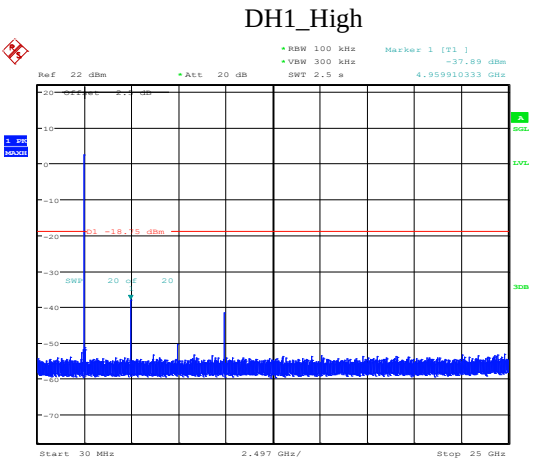
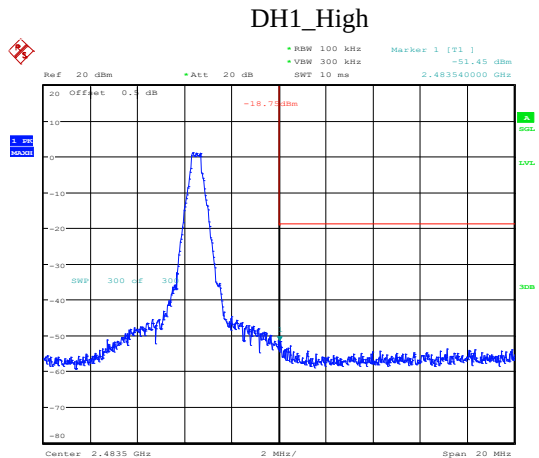
ProjectNo.:2603W28862E-RF Tester:Zoey Song
Date: 30.AUG.2026 09:37:36



ProjectNo.:2603W28862E-RF Tester:Zoey Song
Date: 30.AUG.2026 09:38:36

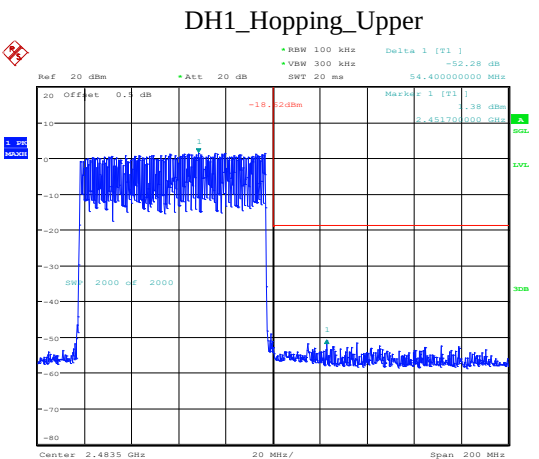
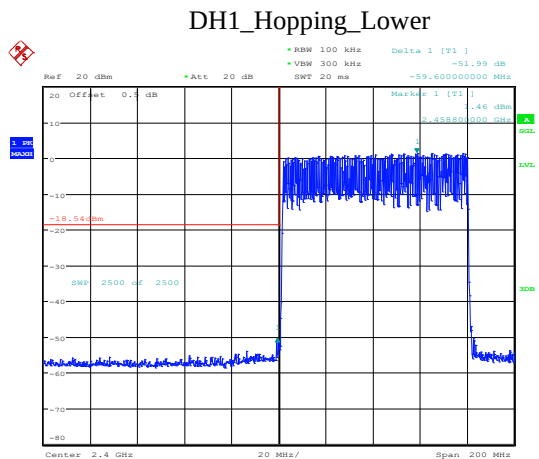


ProjectNo.:2603W28862E-RF Tester:Zoey Song
Date: 30.AUG.2026 09:40:14



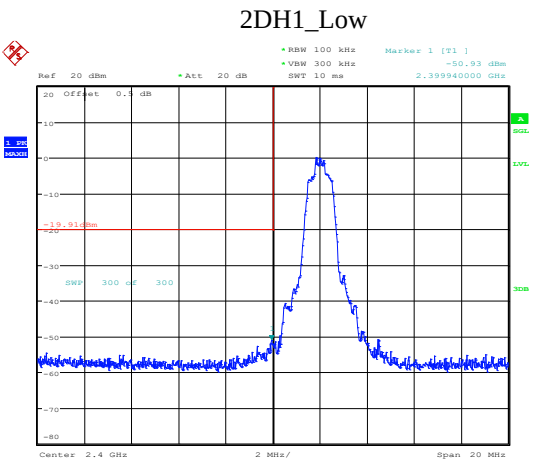
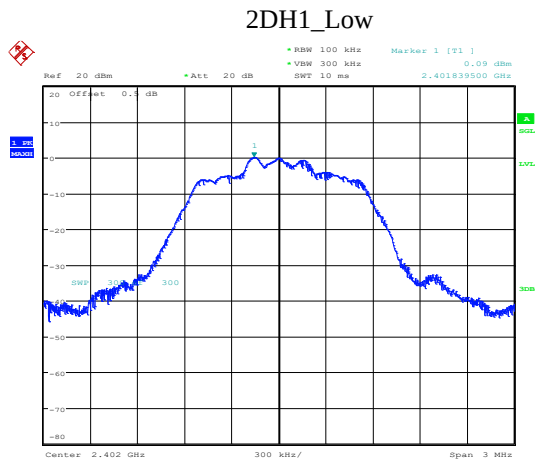
ProjectNo.:2603W28862E-RF Tester:Zoey Song
Date: 30.AUG.2026 09:40:35

ProjectNo.:2603W28862E-RF Tester:Zoey Song
Date: 30.AUG.2026 09:41:33



ProjectNo.:2603W28862E-RF Tester:Zoey Song
Date: 30.AUG.2026 10:06:29

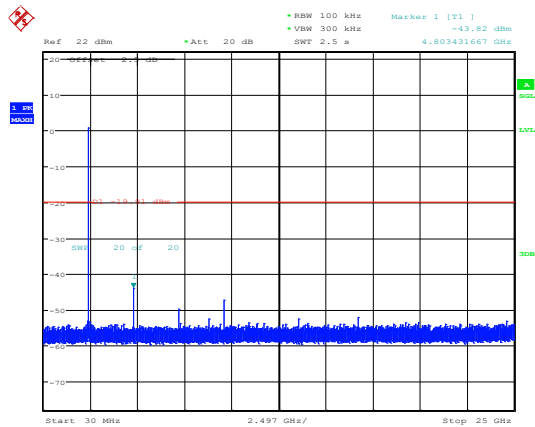
ProjectNo.:2603W28862E-RF Tester:Zoey Song
Date: 30.AUG.2026 10:08:17



ProjectNo.:2603W28862E-RF Tester:Zoey Song
Date: 30.AUG.2026 10:00:51

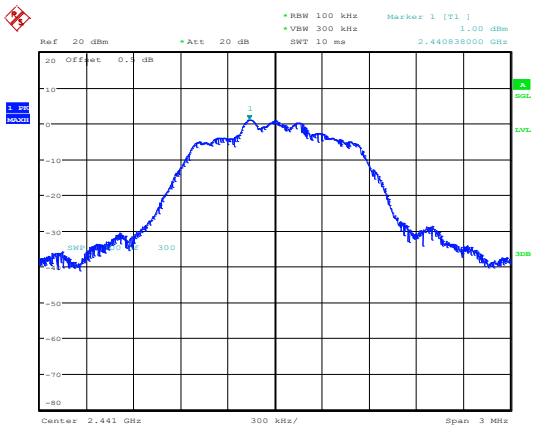
ProjectNo.:2603W28862E-RF Tester:Zoey Song
Date: 30.AUG.2026 10:01:12

2DH1_Low



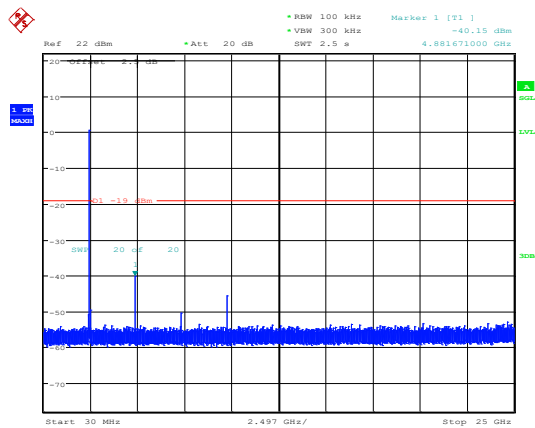
ProjectNo.:2603W28862E-RF Tester:Zoey Song
Date: 30.AUG.2026 10:02:09

2DH1_Middle



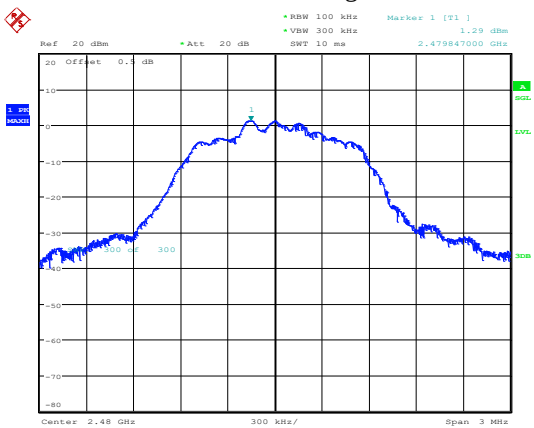
ProjectNo.:2603W28862E-RF Tester:Zoey Song
Date: 30.AUG.2026 09:46:13

2DH1_Middle



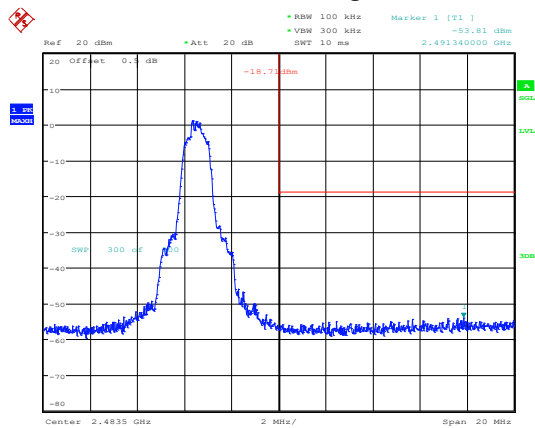
ProjectNo.:2603W28862E-RF Tester:Zoey Song
Date: 30.AUG.2026 09:47:12

2DH1_High



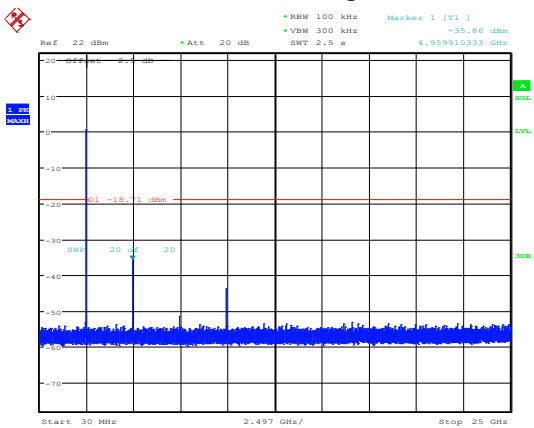
ProjectNo.:2603W28862E-RF Tester:Zoey Song
Date: 30.AUG.2026 09:48:49

2DH1_High



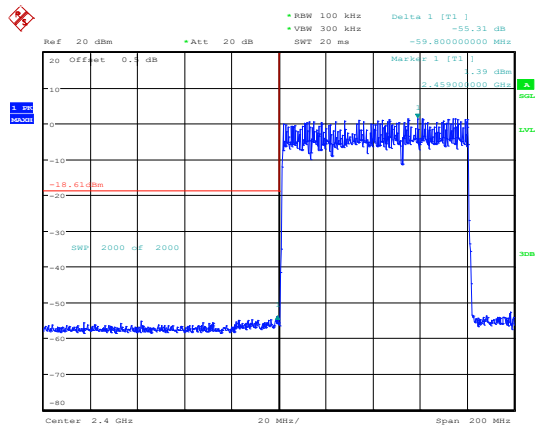
ProjectNo.:2603W28862E-RF Tester:Zoey Song
Date: 30.AUG.2026 09:49:10

2DH1_High



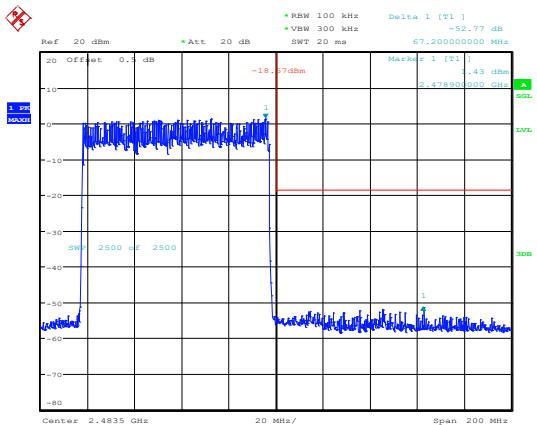
ProjectNo.:2603W28862E-RF Tester:Zoey Song
Date: 30.AUG.2026 09:50:07

2DH1_Hopping_Lower



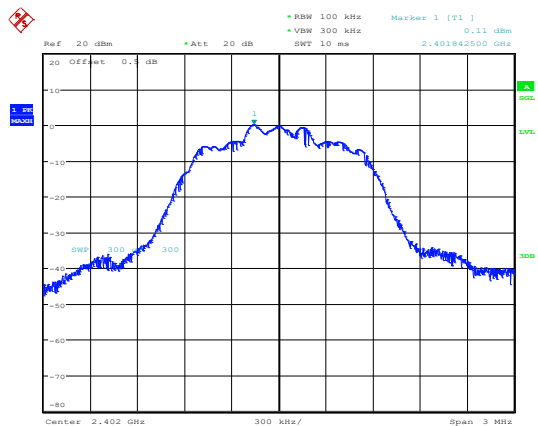
ProjectNo.:2603W28862E-RF Tester:Zoey Song
Date: 30.AUG.2026 10:10:08

2DH1_Hopping_Upper



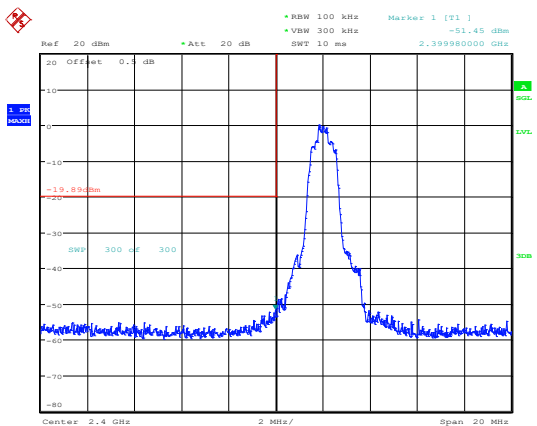
ProjectNo.:2603W28862E-RF Tester:Zoey Song
Date: 30.AUG.2026 10:13:07

3DH1_Low



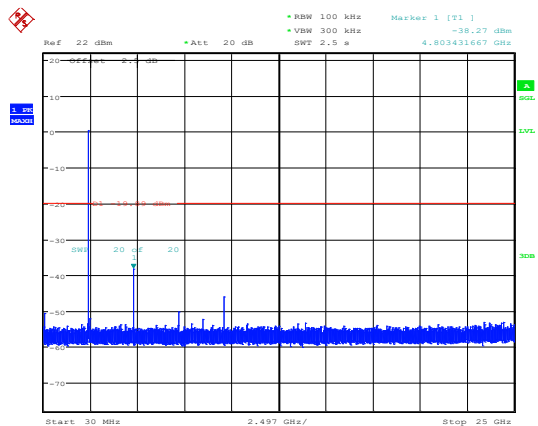
ProjectNo.:2603W28862E-RF Tester:Zoey Song
Date: 30.AUG.2026 09:51:50

3DH1_Low



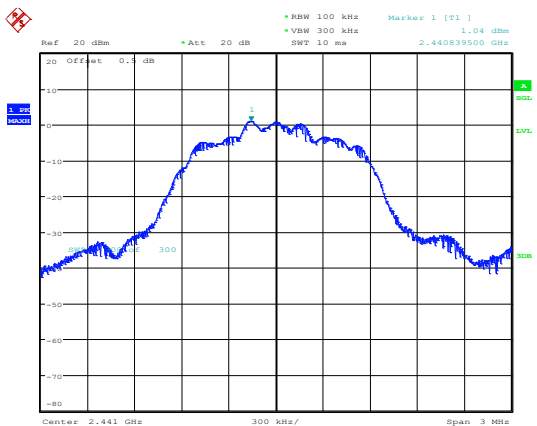
ProjectNo.:2603W28862E-RF Tester:Zoey Song
Date: 30.AUG.2026 09:52:11

3DH1_Low



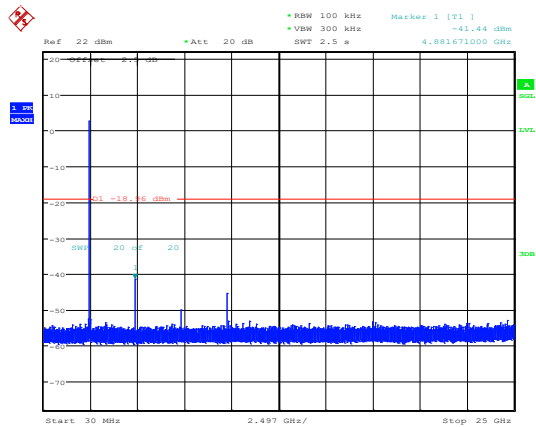
ProjectNo.:2603W28862E-RF Tester:Zoey Song
Date: 30.AUG.2026 09:53:55

3DH1_Middle



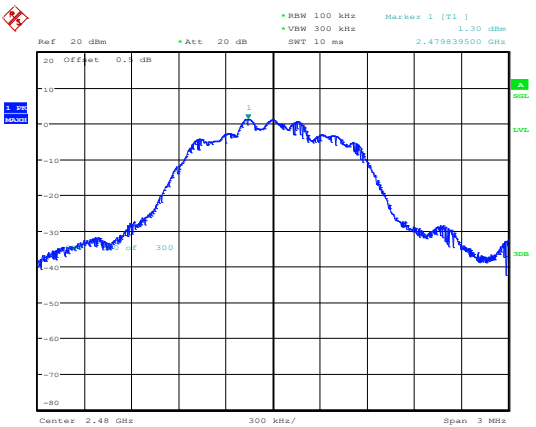
ProjectNo.:2603W28862E-RF Tester:Zoey Song
Date: 30.AUG.2026 10:02:46

3DH1_Middle



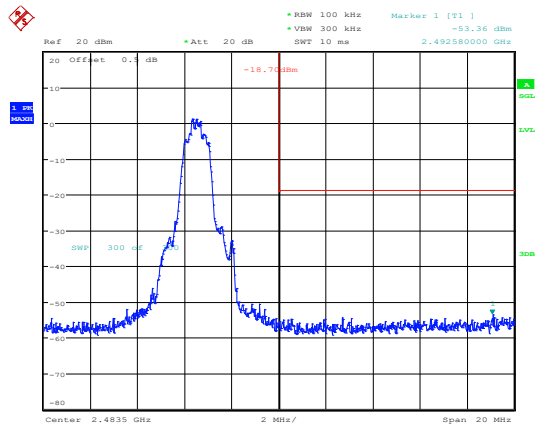
ProjectNo.:2603W28862E-RF Tester:Zoey Song
Date: 30.AUG.2026 10:03:45

3DH1_High



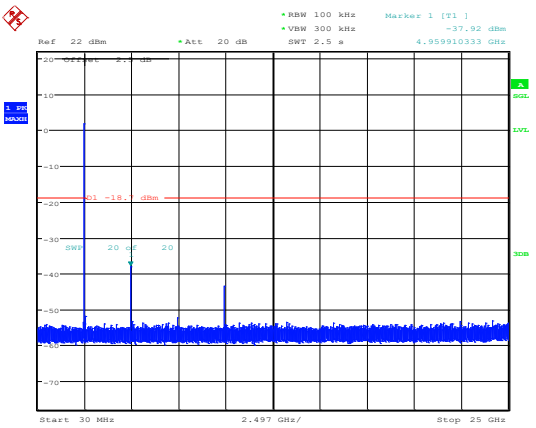
ProjectNo.:2603W28862E-RF Tester:Zoey Song
Date: 30.AUG.2026 09:58:12

3DH1_High



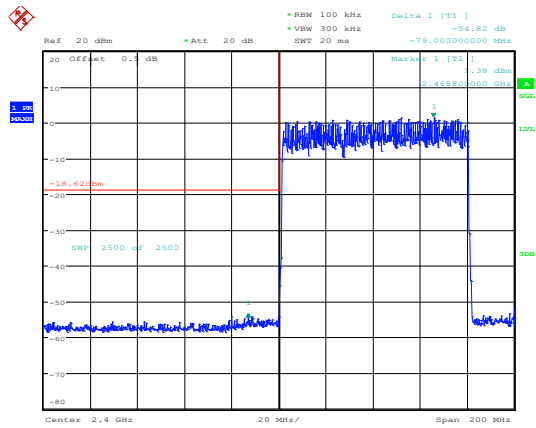
ProjectNo.:2603W28862E-RF Tester:Zoey Song
Date: 30.AUG.2026 09:58:32

3DH1_High



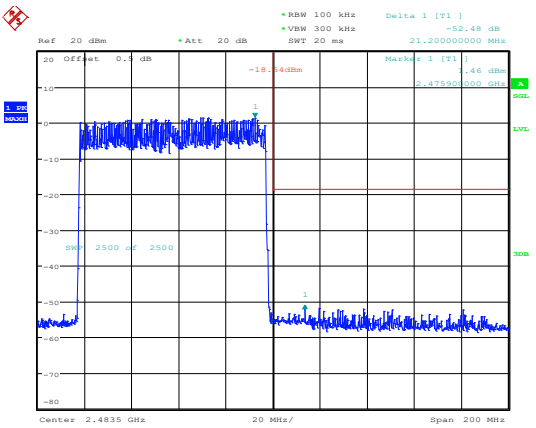
ProjectNo.:2603W28862E-RF Tester:Zoey Song
Date: 30.AUG.2026 09:59:30

3DH1_Hopping_Lower



ProjectNo.:2603W28862E-RF Tester:Zoey Song
Date: 30.AUG.2026 10:15:17

3DH1_Hopping_Upper



ProjectNo.:2603W28862E-RF Tester:Zoey Song
Date: 30.AUG.2026 10:17:28

5. RF EXPOSURE EVALUATION

5.1 SAR EVALUATION

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:

$[(\text{max. power of channel, including tune-up tolerance, mW})/(\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}] \leq 3.0$ for 1-g SAR and ≤ 7.5 for 10-g extremity SAR, where

- $f(\text{GHz})$ 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

Frequency (MHz)	Conducted Output Power Including Tolerance		Distance (mm)	Calculated Value	Threshold (1-g)	SAR Test Exclusion
	(dBm)	(mW)				
2402-2480	3.50	2.24	5	0.7	3	YES

Note: The Maximum Conducted Power including Tune-up Tolerance was declared by manufacturer.

Result: Compliant. The stand-alone SAR evaluation is not necessary.

5.2 EXEMPTION LIMITS FOR ROUTINE EVALUATION – SAR EVALUATION

Applicable Standard

RSS-102, Issue 6, Clause 6.3:

Devices operating at or below the applicable output power levels (adjusted for tune-up tolerance) specified in table 11, based on the separation distance, are exempt from SAR evaluation. The separation distance, defined as the distance between the user and/or bystander and the antenna and/or radiating element of the device or the outer surface of the device, shall be less than or equal to 20 cm for these exemption limits to apply.

Table 11: Power limits for exemption from routine SAR evaluation based on the separation distance

Frequency (MHz)	≤ 5 mm (mW)	10 mm (mW)	15 mm (mW)	20 mm (mW)	25 mm (mW)	30 mm (mW)	35 mm (mW)	40 mm (mW)	45 mm (mW)	> 50 mm (mW)
≤ 300	45	116	139	163	189	216	246	280	319	362
450	32	71	87	104	124	147	175	208	248	296
835	21	32	41	54	72	96	129	172	228	298
1900	6	10	18	33	57	92	138	194	257	323
2450	3	7	16	32	56	89	128	170	209	245
3500	2	6	15	29	50	72	94	114	134	158
5800	1	5	13	23	32	41	54	74	102	128

Measurement Result:

The max tune-up conducted power is 3.5dBm(2.24mW), Antenna Gain: -0.58dBi, EIRP is 2.92dBm(1.96mW)

Note: the max conducted power including tune-up tolerance was declared by manufacturer.

The exemption power(P) limits for routine evaluation in 2402-2480MHz is:

$$(2480-2450)/(3500-2450) = (P - 3)/(2 - 3)$$

$$\Rightarrow P = 2.97 \text{ mW@2480 MHz}$$

$$> 2.24\text{mW}$$

So, the stand-alone SAR evaluation can be exempted.

6. EUT PHOTOGRAPHS

Please refer to the attachment 2603W28862E-RF-EXP EUT EXTERNAL PHOTOGRAPHS and 2603W28862E-RF-INP EUT INTERNAL PHOTOGRAPHS.

7. TEST SETUP PHOTOGRAPHS

Please refer to the attachment 2603W28862E-RF-00A-TSP TEST SETUP PHOTOGRAPHS.

===== END OF REPORT =====