TEST REPORT

Applicant Name:	ONYX INTERNATIONAL INC.
Address:	Room 101, Building 4, No. 202 Shiyu Road, Nansha District, Guangzhou City, Guangdong Province, China
Report Number:	2601V68095E-RF-00B
FCC ID:	XR3-NOTEMINIC

Test Standard (s)

FCC PART 15.247

Sample Description

Product Type:	E Ink Tablet, ePaper Tablet, Color E ink Tablet, Color ePaper Tablet, Digital Paper, Color Digital Paper, Note-taking Tablet, E reader, Paper tablet, eBook reader
Model No.:	Note Mini C
Multiple Model(s) No.:	BOOX Note Mini C Plus, BOOX Note Mini C Pro, BOOX Note Mini C (Gen II), BOOX Note Mini, BOOX Note Mini (Gen II), BOOX Note Mini Plus, BOOX Note Mini Pro
Trade Mark:	BOOX
Date Received:	2026-07-22
Issue Date:	2026-09-24

Test Result:	Pass▲

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

Prepared and Checked By:

GaLa Liu

GaLa Liu
RF Engineer

Approved By:

Nancy Wang

Nancy Wang
RF Supervisor

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

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DOCUMENT REVISION HISTORY

Revision Number	Report Number	Description of Revision	Date of Revision
0	2601V68095E-RF-00B	Original Report	2026-09-24

GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

Product	E Ink Tablet, ePaper Tablet, Color E ink Tablet, Color ePaper Tablet, Digital Paper, Color Digital Paper, Note-taking Tablet, E reader, Paper tablet, eBook reader
Tested Model	Note Mini C
Multiple Model(s)	BOOX Note Mini C Plus, BOOX Note Mini C Pro, BOOX Note Mini C (Gen II), BOOX Note Mini, BOOX Note Mini (Gen II), BOOX Note Mini Plus, BOOX Note Mini Pro
Frequency Range	2402~2480MHz
Transmit Peak Power	7.53dBm
Modulation Technique	BDR (DH1/DH3/DH5): GFSK, EDR (2DH1/2DH3/2DH5): π/4-DQPSK EDR (3DH1/3DH3/3DH5): 8DPSK
Antenna Specification#	-3.97dBi (provided by the applicant)
Voltage Range	DC 5V from Type-c port or DC 3.8V from Battery
Sample serial number	3PF5-2 for AC Line Conducted Emissions and Radiated Emissions Test 3PF5-1 for RF Conducted Test (Assigned by BACL, Shenzhen)
Sample/EUT Status	Good condition
Adapter Information	N/A
Note: The Multiple models are electrically identical with the test model except for model name and sales channels. Please refer to the declaration letter# for more detail, which was provided by manufacturer.	

Objective

This test report is in accordance with Part 2-Subpart J, Part 15-Subparts A and C of the Federal Communication Commission rules.

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

Test Methodology

All measurements contained in this report were conducted with ANSI C63.10-2020 + C63.10a-2024, American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices.

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

Each test item follows test standards and with no deviation.

Measurement Uncertainty

Parameter		Uncertainty
Occupied Channel Bandwidth		52.29kHz(k=1.96, 95% level of confidence)
RF output power, conducted		1.57dB(k=1.96, 95% level of confidence)
Dwell Time		±1%(k=2, 95% level of confidence)
Conducted Spurious Emission		2.48dB(k=1.96, 95% level of confidence)
AC Power Lines Conducted Emissions	9kHz~150 kHz	3.46dB(k=2, 95% level of confidence)
	150 kHz ~30MHz	3.72dB(k=2, 95% level of confidence)
Radiated Emissions	0.009MHz~30MHz	3.66dB(k=2, 95% level of confidence)
	30MHz~1000MHz (Horizontal)	5.10dB(k=2, 95% level of confidence)
	30MHz~1000MHz (Vertical)	6.28dB(k=2, 95% level of confidence)
	1GHz - 6GHz	6.18dB(k=2, 95% level of confidence)
	6GHz - 18GHz	6.62dB(k=2, 95% level of confidence)
	18GHz - 40GHz	6.66dB(k=2, 95% level of confidence)
Temperature		±0.4℃
Humidity		±2%
Supply voltages		DC±0.4%;AC±1%

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

Test Facility

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

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

SYSTEM TEST CONFIGURATION

Description of Test Configuration

The system was configured for testing in an engineering mode.

Channel	Frequency (MHz)	Channel	Frequency (MHz)
0	**2402**	40	2442
1	2403	41	2443
2	2404	42	2444
…	…	…	…
…	…	…	…
36	2438	75	2477
37	2439	76	2478
38	2440	77	2479
39	**2441**	**78**	**2480**
EUT was tested with Channel 0, 39 and 78.			

EUT Exercise Software

Exercise Software#	QRCT4
Power Level#	9

Special Accessories

No special accessory.

Equipment Modifications

No modification was made to the EUT tested.

Support Equipment List and Details

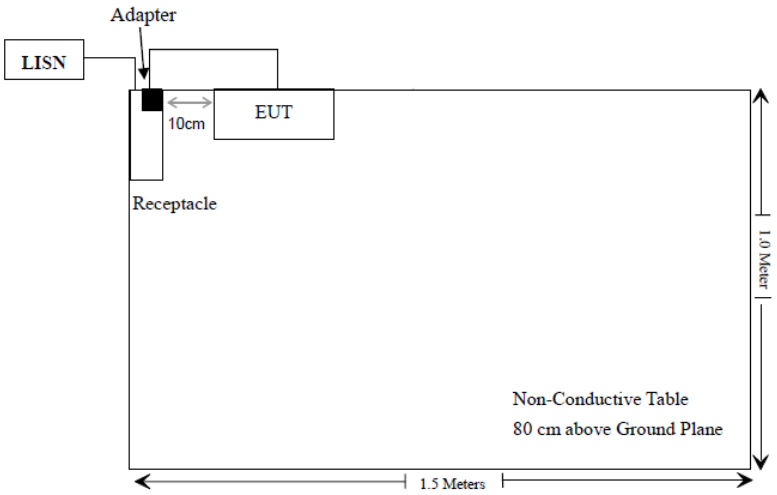
Manufacturer	Description	Model	Serial Number
OUPU	Receptacle	PDU-OP1606K	6971041358020
Shen Zhen HuaJin Electronics Co.,LTD	Adapter	YZD12-0502000A	Unknown

External I/O Cable

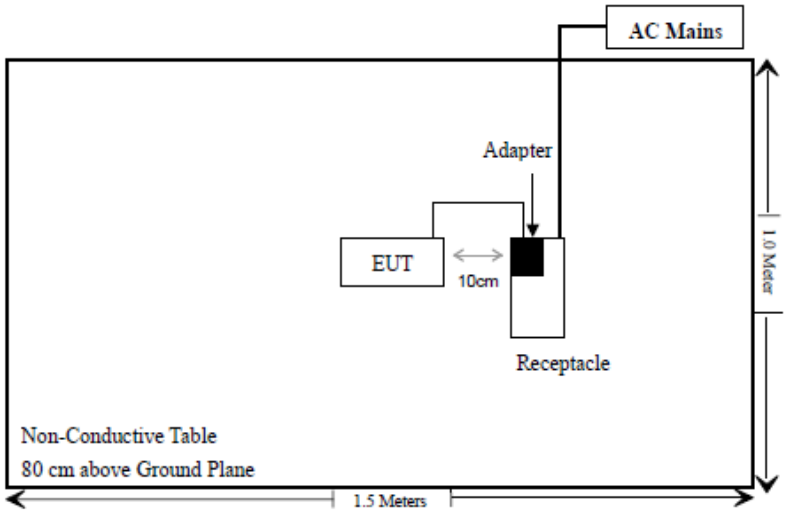
Cable Description	Length (m)	From Port	To
Unshielded Un-Detachable AC Cable	1.2	Receptacle	LISN/AC Mains
Unshielded Detachable USB Cable	1.0	Adapter	EUT

Block Diagram of Test Setup

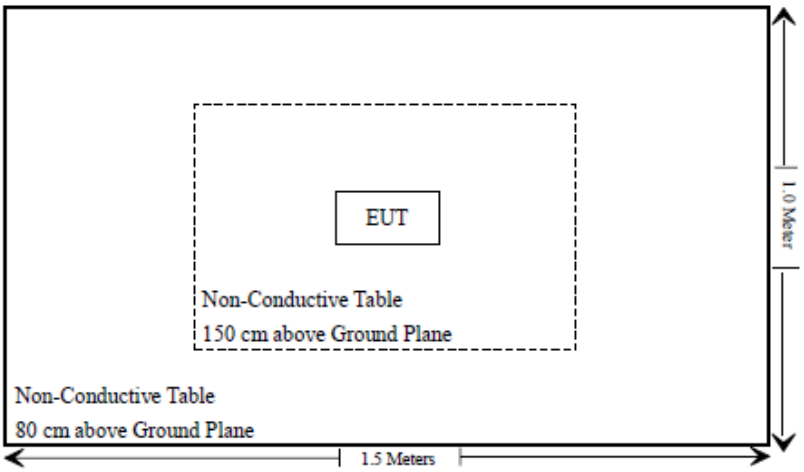
For AC Line Conducted Emissions:



For Radiated Emissions below 1GHz:



For Radiated Emissions above 1GHz:



SUMMARY OF TEST RESULTS

Rules	Description of Test	Result
§1.1307 (b) & §2.1093	RF Exposure Evaluation	Compliant
FCC §15.203	Antenna Requirement	Compliant
FCC §15.207(a)	AC Line Conducted Emissions	Compliant
FCC §15.205, §15.209, §15.247(d)	Radiated Emissions	Compliant
FCC §15.247(a)(1)	20 dB Emission Bandwidth & 99% Occupied Bandwidth	Compliant
FCC §15.247(a)(1)	Channel Separation Test	Compliant
FCC §15.247(a)(1)(iii)	Quantity of hopping channel Test	Compliant
FCC §15.247(a)(1)(iii)	Time of Occupancy (Dwell Time)	Compliant
FCC §15.247(b)(1)	Peak Output Power Measurement	Compliant
FCC §15.247(d)	Band edges	Compliant
FCC §15.247(d)	Conducted Spurious Emission	Compliant

TEST EQUIPMENT LIST

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
AC Line Conducted Emissions Test					
Rohde & Schwarz	EMI Test Receiver	ESCI	101120	2026/08/04	2027/08/03
Rohde & Schwarz	LISN	ENV216	101613	2025/09/18	2026/09/17
Rohde & Schwarz	Transient Limiter	ESH3Z2	DE25985	2025/09/18	2026/09/17
Unknown	CE Cable	Unknown	UF A210B-1-0720-504504	2025/09/18	2026/09/17
Audix	EMI Test software	E3	191218 V9(c)	NCR	NCR
Radiated Emissions Test					
Rohde & Schwarz	EMI Test Receiver	ESR3	102455	2026/08/04	2027/08/03
Sonoma instrument	Pre-amplifier	310 N	186238	2025/09/08	2026/09/07
Sunol Sciences	Broadband Antenna	JB1	A040904-1	2026/06/26	2029/06/25
Unknown	Chamber A Cable	Cable A1	Cable A1	2025/09/08	2026/09/07
Unknown	Chamber A Cable	Cable A2	Cable A2	2025/09/08	2026/09/07
BACL	Active Loop Antenna	1313-1A	4031911	2024/05/14	2027/05/13
Unknown	Chamber A Cable	Cable A3	Cable A3	2025/09/08	2026/09/07
Unknown	Chamber A Cable	Cable A4	Cable A4	2025/09/08	2026/09/07
Audix	EMI Test software	E3	19821b(V9)	NCR	NCR
TDK	Chamber	Chamber A	2#	2026/07/03	2029/07/02
Rohde & Schwarz	Spectrum Analyzer	FSV40	101605	2026/08/04	2027/08/03
A.H.System	Preamplifier	PAM-0118P	489	2025/09/08	2026/09/07
Schwarzbeck	Horn Antenna	BBHA9120D (1201)	1143	2026/07/15	2027/07/14
Unknown	Chamber B Cable	Cable B1	Cable B1	2025/09/08	2026/09/07
Unknown	Chamber B Cable	Cable B3	Cable B3	2025/09/08	2026/09/07
JD	Filter Switch Unit	DT7220FSU	DS79906	2026/06/23	2027/06/22
JD	Multiplex Switch Test Control Set	DT7220SCU	DS79903	2026/06/23	2027/06/22

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Audix	EMI Test software	E3	191218 V9(c)	NCR	NCR
TDK	Chamber	Chamber B	1#	2026/07/06	2029/07/05
Unknown	Chamber B Cable	Cable B6	Cable B6	2026/07/06	2027/07/05
A.H.System	Pre-amplifier	PAM-1840VH	190	2025/09/08	2026/09/07
Electro-Mechanics Co	Horn Antenna	3116	9510-2270	2023/09/18	2026/09/17
Unknown	Chamber B Cable	Cable B4	Cable B4	2025/09/17	2026/09/16
Unknown	Chamber B Cable	Cable B5	Cable B5	2025/09/17	2026/09/16
RF Conducted Test					
Rohde & Schwarz	Spectrum Analyzer	FSV40	101942	2025/09/01	2026/08/31
JD	JD Auto Test software	NA	1.0.0.3769	NCR	NCR
Unknown	10dB Attenuator	Unknown	F-03-EM224	2026/06/24	2027/06/23

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

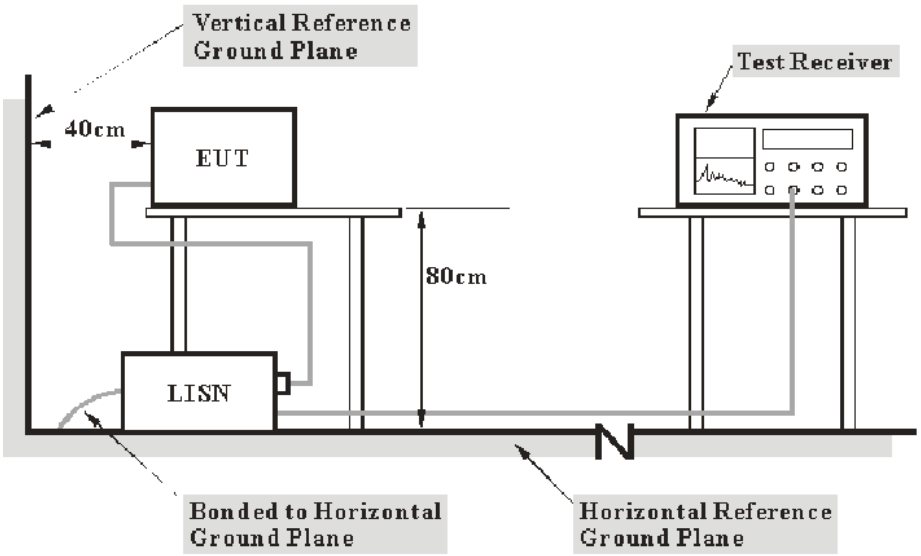
REQUIREMENTS AND TEST PROCEDURES

AC Line Conducted Emissions

Applicable Standard

FCC §15.207(a)

EUT Setup



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

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

The spacing between the peripherals was 10 cm.

EMI Test Receiver Setup

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

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

Frequency Range	RBW
150 kHz – 30 MHz	9 kHz

Test Procedure

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

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

Factor & Over Limit Calculation

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

Factor = LISN VDF + Cable Loss

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

Over Limit = Level – Limit
Level = Read Level + Factor

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

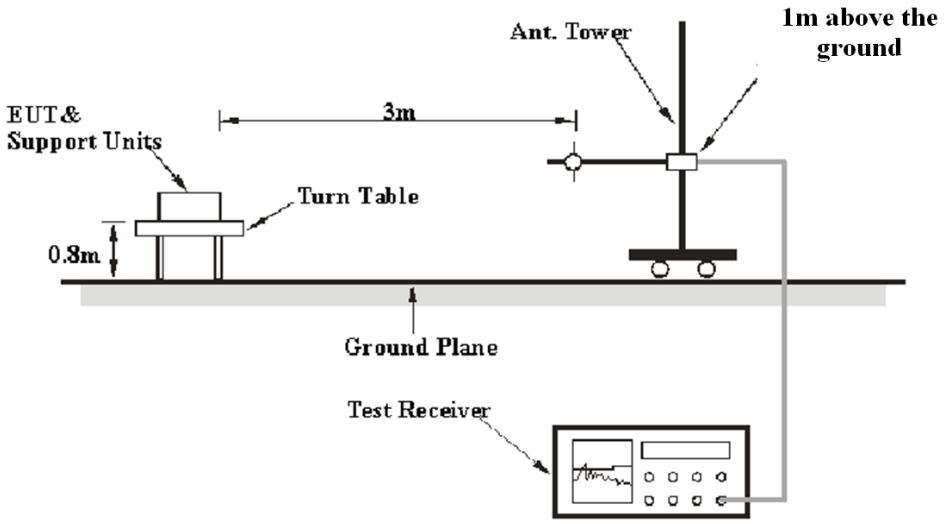
Radiated Emissions

Applicable Standard

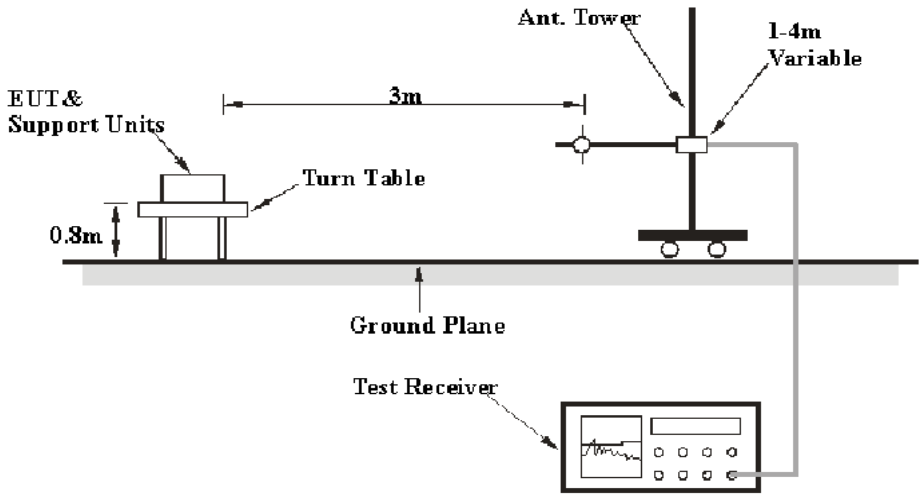
FCC §15.205; §15.209; §15.247(d)

EUT Setup

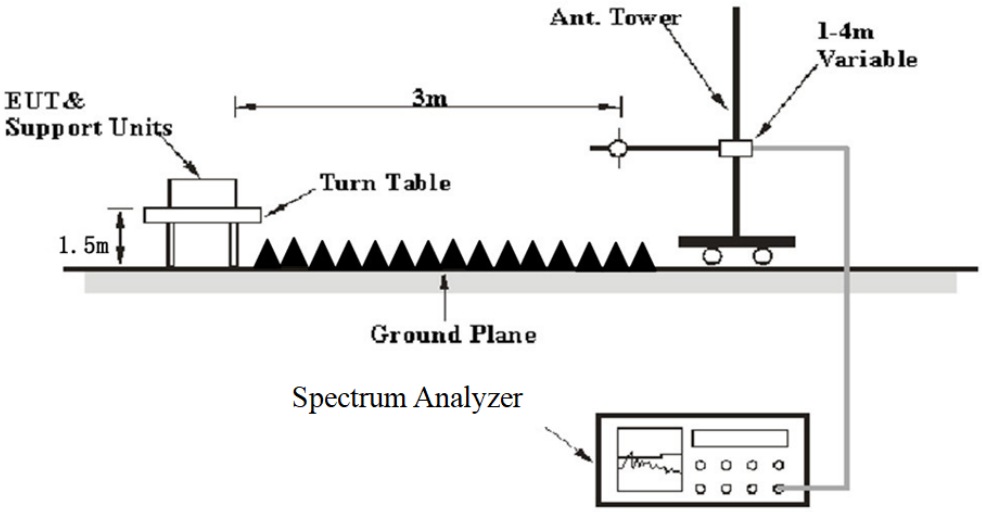
9 kHz-30MHz:



30MHz-1GHz:



Above 1GHz:



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

EMI Test Receiver & Spectrum Analyzer Setup

The EMI test receiver & Spectrum Analyzer Setup were set with the following configurations:

Frequency Range	RBW	Video B/W	IF B/W	Measurement	Detector
9 kHz – 150 kHz	/	/	200 Hz	QP	QP
	300 Hz	1 kHz	/	PK	Peak
150 kHz – 30 MHz	/	/	9 kHz	QP	QP
	10 kHz	30 kHz	/	PK	Peak
30 MHz – 1000 MHz	/	/	120 kHz	QP	QP
	120 kHz	500 kHz	/	PK	Peak
Above 1 GHz	Harmonics				
	1MHz	3 MHz	/	PK	Peak
	Average Emission Level=Peak Emission Level+20*log(Duty cycle)				
	Band Edge & Other Emissions				
	1MHz	3 MHz	/	PK	Peak
	1MHz	≥10 Hz	/	Average	Peak

For Duty cycle measurement:

Use the duty cycle factor correction factor method per 15.35(c).
Duty cycle=On time/100milliseconds, On time=N1*L1+N2*L2+…Nn-1*Ln-1+Nn*Ln,
Where N1 is number of type 1 pulses, L1 is length of type 1 pulse, etc.

Test Procedure

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

All final data was recorded in Quasi-peak detection mode except for the frequency bands 9–90 kHz, 110–490 kHz and above 1000 MHz, average detection modes for frequency bands 9–90 kHz and 110–490 kHz, peak and average detection modes for frequencies above 1 GHz.

For 9 kHz-30MHz, the report shall list the six emissions with the smallest margin relative to the limit, for each of the three antenna orientations (parallel, perpendicular, and ground-parallel) unless the margin is greater than 20 dB.

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.

Factor & Over Limit/Margin Calculation

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

Factor = Antenna Factor + Cable Loss - Amplifier Gain

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

Over Limit/Margin = Level/Corrected Amplitude – Limit
Level / Corrected Amplitude = Read Level + Factor

20 dB Emission Bandwidth & 99% Occupied Bandwidth

Applicable Standard

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

Test Procedure

Test Method: ANSI C63.10-2020 Clause 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 at least 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 (OBW/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.

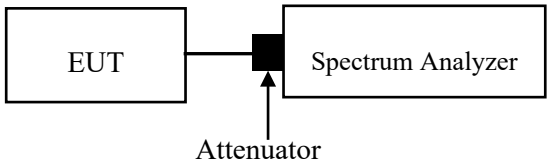
g) Determine the reference value: Set the EUT to transmit an unmodulated carrier or modulated signal, as applicable. Allow the trace to stabilize. Set the spectrum analyzer marker to the highest level of the displayed trace (this is the reference value).

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 dBc 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 dBc bandwidth shall be reported by providing spectral 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).



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

Channel Separation Test

Applicable Standard

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

Test Procedure

Test Method: ANSI C63.10a-2024 Clause 7.8.2

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

a) Span: Wide enough to capture the peaks of two adjacent channels.

b) RBW: Start with the RBW set to approximately 30% of the channel spacing; adjust as necessary to best identify the center of each individual channel.

c) Video (or average) bandwidth (VBW) ≥1/10th the RBW.

d) Sweep: No faster than coupled (auto) time.

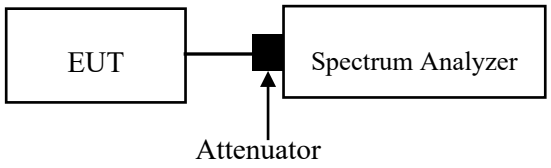
e) Detector function: Peak.

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 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 carrier separation need only be measured for one of those modulation schemes or data rates.



Note 1: The limit is 2/3*20 dB bandwidth
Note 2: Offset (10.5dB) = Attenuator (10dB) + Cable loss (0.5dB)

Quantity of Hopping Channel Test

Applicable Standard

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

Test Procedure

Test Method: ANSI C63.10a-2024 Clause 7.8.3

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

a) Span: The frequency band of operation. Depending on the number of channels the device supports, it could 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 $\geq 1/10^{th}$ the RBW.

d) Sweep: No faster than coupled (auto) time.

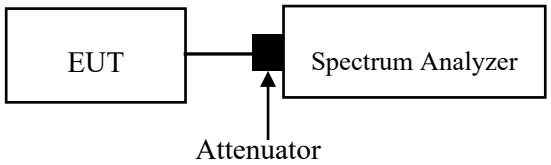
e) Detector function: Peak.

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.



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

Time of Occupancy (Dwell Time)

Applicable Standard

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

Test Procedure

Test Method: ANSI C63.10-2020 Clause 7.8.4

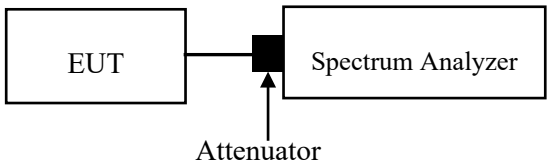
Use the following spectrum analyzer settings to determine the dwell time per hop:

a) Span: Zero span, centered on a hopping channel.
b) RBW shall be ≤ channel spacing and where possible RBW should be set >> 1 / T, where T is the expected 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/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 × 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.



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

Peak Output Power Measurement

Applicable Standard

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

Test Procedure

Test Method: ANSI C63.10-2020 Clause 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 ⩾ RBW.

d) Sweep: No faster than coupled (auto) time.

e) Detector function: Peak.

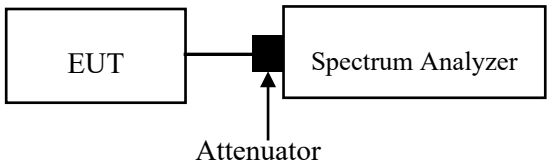
f) Trace: Max-hold.

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 1: A short RF cable with low cable loss connected to the EUT antenna port, which was provided by client or lab, the cable loss was add with offset into test equipment, the total offset consists of attenuator and/or RF cable loss
Note 2: Offset (10.5dB) = Attenuator (10dB) + Cable loss (0.5dB)

Band Edges

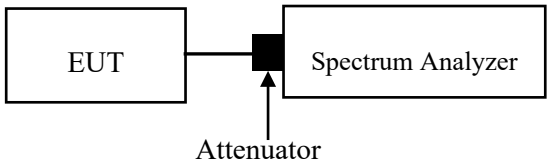
Applicable Standard

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

Test Procedure

Test Method: ANSI C63.10-2020 Clause 7.8.7.2 & Clause 6.10

1) Span: Wide enough to capture the peak level of the emission operating on the channel closest to the band-edge, as well as any modulation products that fall outside of the authorized band of operation.
2) Reference level: As required to keep the signal from exceeding the maximum instrument 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.
3) Attenuation: Auto (at least 10 dB preferred).
4) Sweep time: No faster than coupled (auto) time.
5) Resolution bandwidth: 100 kHz.
6) Video bandwidth: 300 kHz.
7) Detector: Peak.
8) Trace: Max-hold.



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

Conducted Spurious Emission

Applicable Standard

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

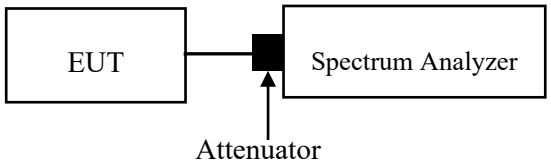
Test Procedure

Test Method: ANSI C63.10-2020 Clause 7.8.7.1

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

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

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



Note 1: A short RF cable with low cable loss connected to the EUT antenna port, which was provided by client or lab, the worst case cable loss was add with offset into test equipment, the total offset consists of attenuator and/or RF cable and/or power splitter loss

Note: The worst cable loss among the test frequency range was added into plots.

RF EXPOSURE EVALUATION

Applicable Standard

According to FCC §2.1093 and §1.1307(b) (1), 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 KDB 447498 D01 General RF Exposure Guidance v06.

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances ≤ 50 mm are determined by:
[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] •
[√ f(GHz)] ≤ 3.0 for 1-g SAR and ≤ 7.5 for 10-g extremity SAR, where
1. f(GHz) is the RF channel transmit frequency in GHz.
2. Power and distance are rounded to the nearest mW and mm before calculation.
3. The result is rounded to one decimal place for comparison.
4. When the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine SAR test Exclusion.

Measurement Result

For worst case:

Mode	Frequency (MHz)	Max tune-up conducted power# (dBm)	Max tune-up conducted power# (mW)	Distance (mm)	Calculated value	Threshold (1-g SAR)	SAR Test Exclusion
BT	2402-2480	8	6.31	5	2.0	3	Yes

Result: Compliant

ANTENNA REQUIREMENT

Applicable Standard

According to FCC § 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this Section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with § 15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.

Antenna Connector Construction

The EUT has one internal antenna arrangement, which was permanently attached, the antenna gain# is -3.97dBi, fulfill the requirement of this section. Please refer to the EUT photos.

Result: Compliant

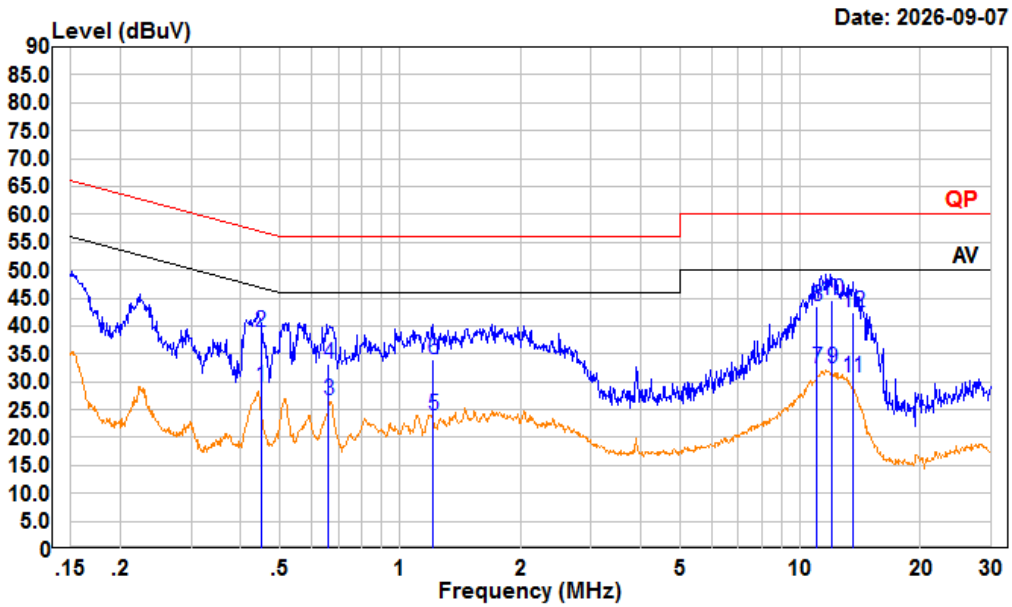
TEST DATA AND RESULTS

AC Line Conducted Emissions

Environmental Conditions

Temperature (°C)	25	**Relative Humidity (%)**	52
ATM Pressure (kPa)	101.0	**Test engineer**	Macy Shi
Test date	2026.09.07		
EUT operation mode	Transmitting (Maximum output power mode, BDR Middle Channel)		

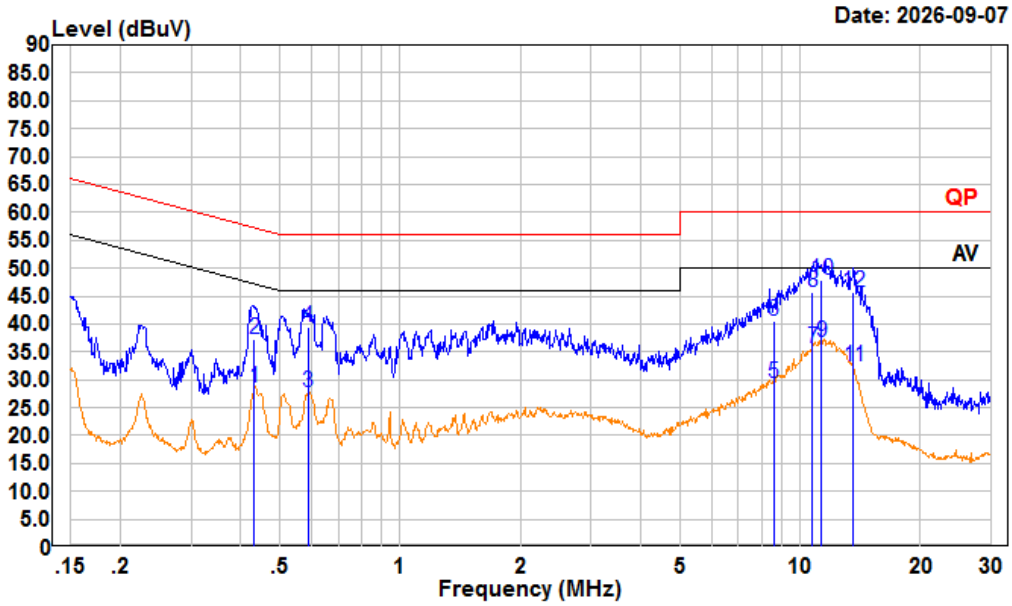
AC 120V 60 Hz, Line



Condition: Line
Project : 2601V68095E-RF
tester : Macy.shi Note:BT Transmitting
Setting : RBW:9kHz

	Freq	Read Level	Level	LISN Factor	Cable Loss	Limit Line	Over Limit	Remark
	MHz	dBuV	dBuV	dB	dB	dBuV	dB	
1	0.448	9.48	29.21	9.70	10.03	46.91	-17.70	Average
2	0.448	19.28	39.01	9.70	10.03	56.91	-17.90	QP
3	0.662	6.99	26.73	9.70	10.04	46.00	-19.27	Average
4	0.662	13.42	33.16	9.70	10.04	56.00	-22.84	QP
5	1.211	3.94	24.06	9.90	10.22	46.00	-21.94	Average
6	1.211	13.85	33.97	9.90	10.22	56.00	-22.03	QP
7	11.046	12.25	32.49	9.90	10.34	50.00	-17.51	Average
8	11.046	23.17	43.41	9.90	10.34	60.00	-16.59	QP
9	12.050	12.17	32.42	9.90	10.35	50.00	-17.58	Average
10	12.050	24.26	44.51	9.90	10.35	60.00	-15.49	QP
11	13.512	10.38	30.65	9.90	10.37	50.00	-19.35	Average
12	13.512	22.07	42.34	9.90	10.37	60.00	-17.66	QP

AC 120V 60 Hz, Neutral



Condition: neutral
Project : 2601V68095E-RF
tester : Macy.shi Note:BT Transmitting
Setting : RBW:9kHz

	Freq	Read Level	Level	LISN Factor	Cable Loss	Limit Line	Over Limit	Remark
	MHz	dBuV	dBuV	dB	dB	dBuV	dB	
1	0.432	9.04	28.67	9.60	10.03	47.22	-18.55	Average
2	0.432	17.70	37.33	9.60	10.03	57.22	-19.89	QP
3	0.590	8.12	27.76	9.60	10.04	46.00	-18.24	Average
4	0.590	19.75	39.39	9.60	10.04	56.00	-16.61	QP
5	8.584	9.35	29.36	9.70	10.31	50.00	-20.64	Average
6	8.584	20.59	40.60	9.70	10.31	60.00	-19.40	QP
7	10.753	15.57	35.61	9.70	10.34	50.00	-14.39	Average
8	10.753	25.78	45.82	9.70	10.34	60.00	-14.18	QP
9	11.329	16.65	36.69	9.70	10.34	50.00	-13.31	Average
10	11.329	27.73	47.77	9.70	10.34	60.00	-12.23	QP
11	13.581	12.27	32.34	9.70	10.37	50.00	-17.66	Average
12	13.581	25.57	45.64	9.70	10.37	60.00	-14.36	QP

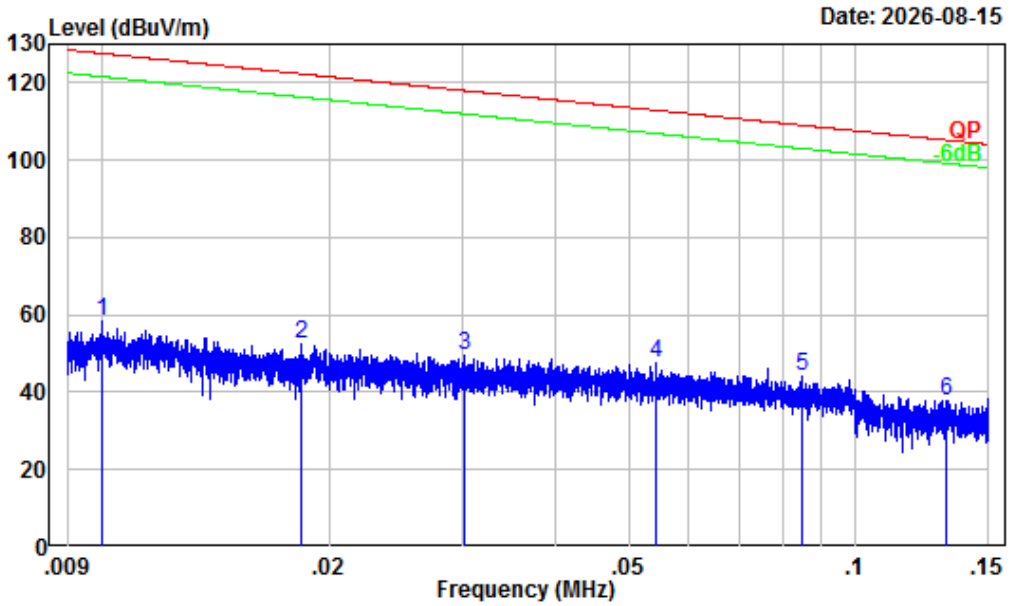
Radiated Emissions

Environmental Conditions

Temperature (°C)	23.5-24	**Relative Humidity (%)**	51-53
ATM Pressure (kPa):	101.0-101.2	**Test engineer:**	Anson Su &Zenos Qiao
Test date:	2026.08.05-2026.08.15		
EUT operation mode:	Below 1GHz: Transmitting (Maximum output power mode, BDR Middle Channel) Above 1GHz: Transmitting		
Note:	1. For the radiated spurious emission below 30MHz, only the worst case (parallel) was recorded. 2. For the radiated spurious emission below 1GHz, When the test result of peak was less than the limit of QP/Average more than 6dB, just peak value were recorded. 3. After pre-scan in the X, Y and Z axes of orientation, the worst case z-axis of orientation were recorded.		

Below 1GHz:

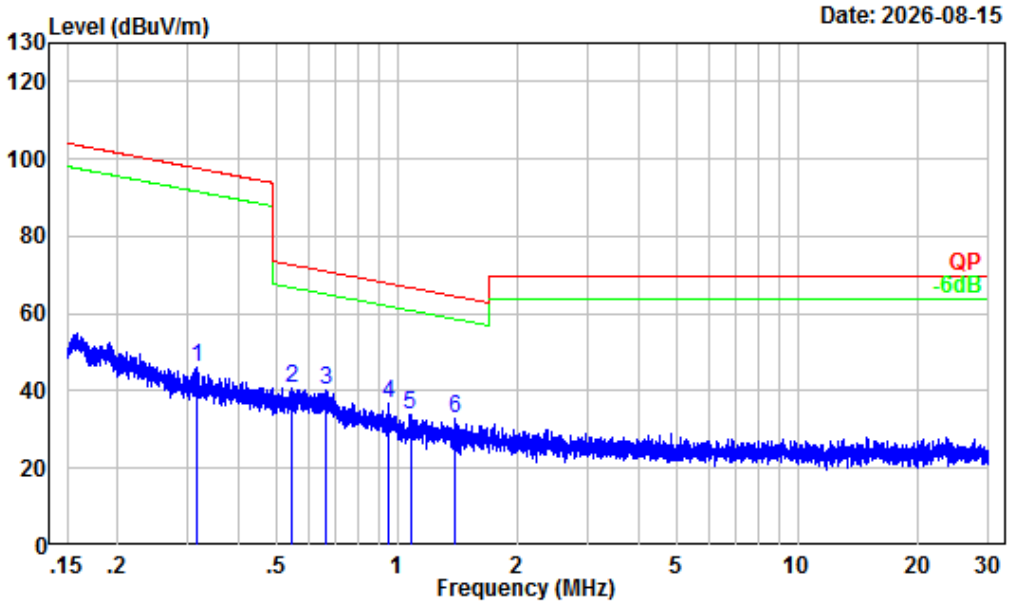
9kHz-150kHz



Site : Chamber A
Condition : 3m
Project Number : 2601V68095E-RF
Test Mode : BT Transmitting
Detector: Peak RBW/VBW: 0.3/1kHz
Tester : Anson Su

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	0.010	32.30	25.94	58.24	127.59	-69.35	Peak
2	0.018	30.71	21.62	52.33	122.33	-70.00	Peak
3	0.030	28.47	20.89	49.36	117.98	-68.62	Peak
4	0.054	25.98	21.62	47.60	112.93	-65.33	Peak
5	0.085	23.05	20.87	43.92	109.01	-65.09	Peak
6	0.132	20.10	17.66	37.76	105.18	-67.42	Peak

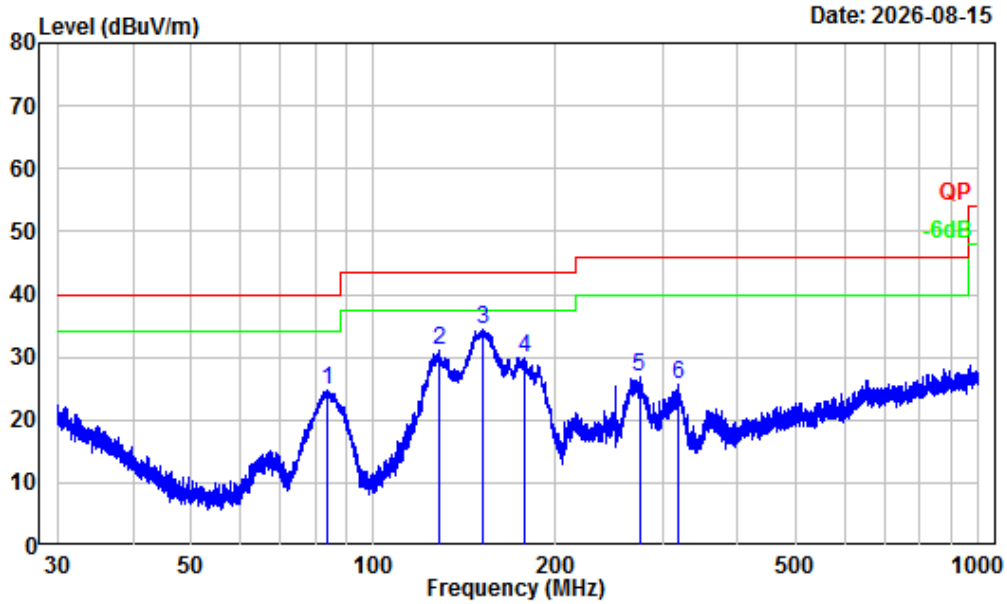
150kHz-30MHz



Site : Chamber A
Condition : 3m
Project Number : 2601V68095E-RF
Test Mode : BT Transmitting
Detector: Peak RBW/VBW: 10/30kHz
Tester : Anson Su

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	0.316	9.89	36.12	46.01	97.60	-51.59	Peak
2	0.548	5.81	35.06	40.87	72.82	-31.95	Peak
3	0.666	4.35	35.66	40.01	71.08	-31.07	Peak
4	0.948	1.59	35.15	36.74	67.95	-31.21	Peak
5	1.079	0.98	32.86	33.84	66.80	-32.96	Peak
6	1.399	0.08	32.85	32.93	64.50	-31.57	Peak

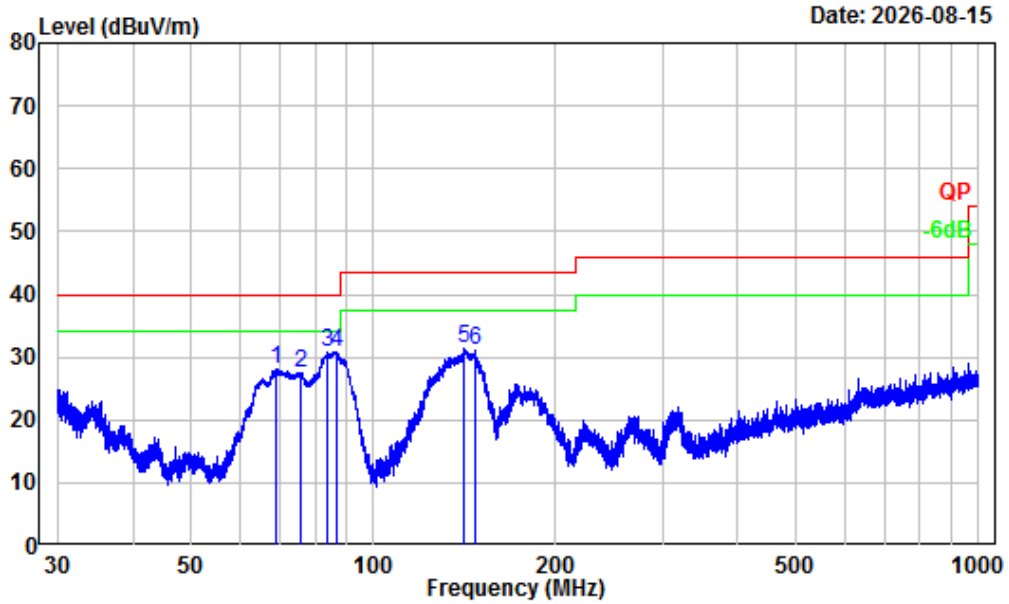
30MHz-1GHz_Horizontal



Site : Chamber A
Condition : 3m Horizontal
Project Number : 2601V68095E-RF
Test Mode : BT Transmitting
Detector: Peak RBW/VBW: 120/500kHz
Tester : Anson Su

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	84.04	-17.52	42.38	24.86	40.00	-15.14	Peak
2	128.06	-11.10	42.12	31.02	43.50	-12.48	Peak
3	152.06	-12.12	46.49	34.37	43.50	-9.13	Peak
4	177.43	-13.39	43.29	29.90	43.50	-13.60	Peak
5	275.04	-11.26	38.15	26.89	46.00	-19.11	Peak
6	319.10	-10.31	36.04	25.73	46.00	-20.27	Peak

30MHz-1GHz_Vertical



Site : Chamber A
Condition : 3m Vertical
Project Number : 2601V68095E-RF
Test Mode : BT Transmitting
Detector: Peak RBW/VBW: 120/500kHz
Tester : Anson Su

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	68.96	-17.28	45.47	28.19	40.00	-11.81	Peak
2	75.58	-17.72	45.27	27.55	40.00	-12.45	Peak
3	83.82	-17.53	48.29	30.76	40.00	-9.24	Peak
4	87.07	-17.61	48.46	30.85	40.00	-9.15	Peak
5	140.90	-11.51	42.78	31.27	43.50	-12.23	Peak
6	147.34	-11.88	42.90	31.02	43.50	-12.48	Peak

Above 1GHz:

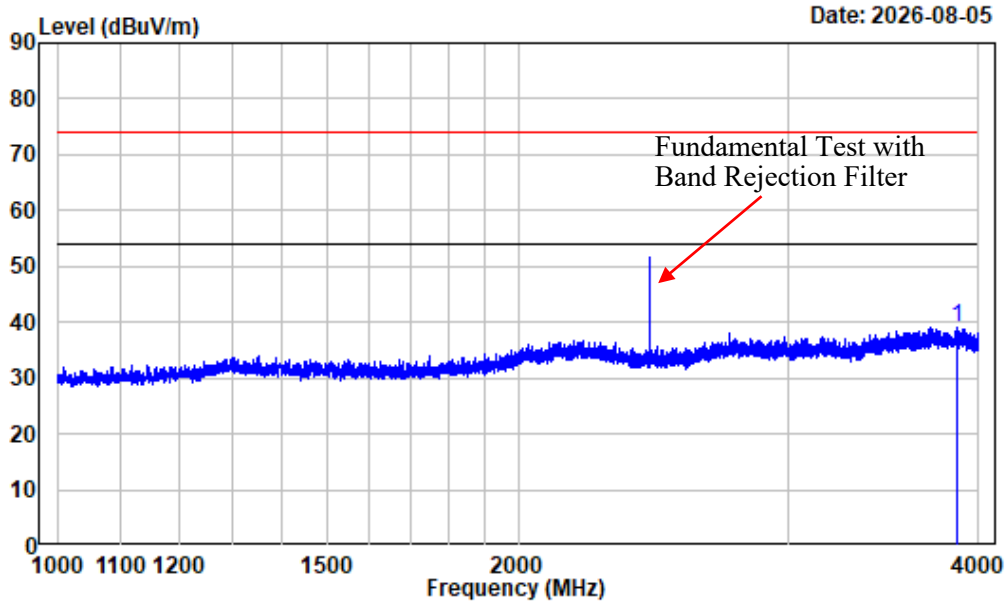
Frequency (MHz)	Reading (dBµV)	PK/Ave	Polar (H/V)	Factor (dB/m)	Corrected Amplitude (dBµV/m)	Limit (dBµV/m)	Margin (dB)
GFSK(Maximum output power mode)							
Low Channel							
4804	55.17	PK	H	-8.58	46.59	74	-27.41
4804	55.71	PK	V	-8.58	47.13	74	-26.87
Middle Channel							
4882	56.04	PK	H	-8.6	47.44	74	-26.56
4882	56.59	PK	V	-8.6	47.99	74	-26.01
High Channel							
4960	54.16	PK	H	-8.63	45.53	74	-28.47
4960	54.68	PK	V	-8.63	46.05	74	-27.95

Note:
Factor = Antenna factor (RX) + Cable Loss – Amplifier Factor
Corrected Amplitude = Factor + Reading
Margin = Corrected. Amplitude - Limit
The other spurious emission which is in the noise floor level was not recorded. The test result of peak was less than the limit of average, so just peak values were recorded.

Test plots:

1-25GHz (Listed with the worst case test plot)

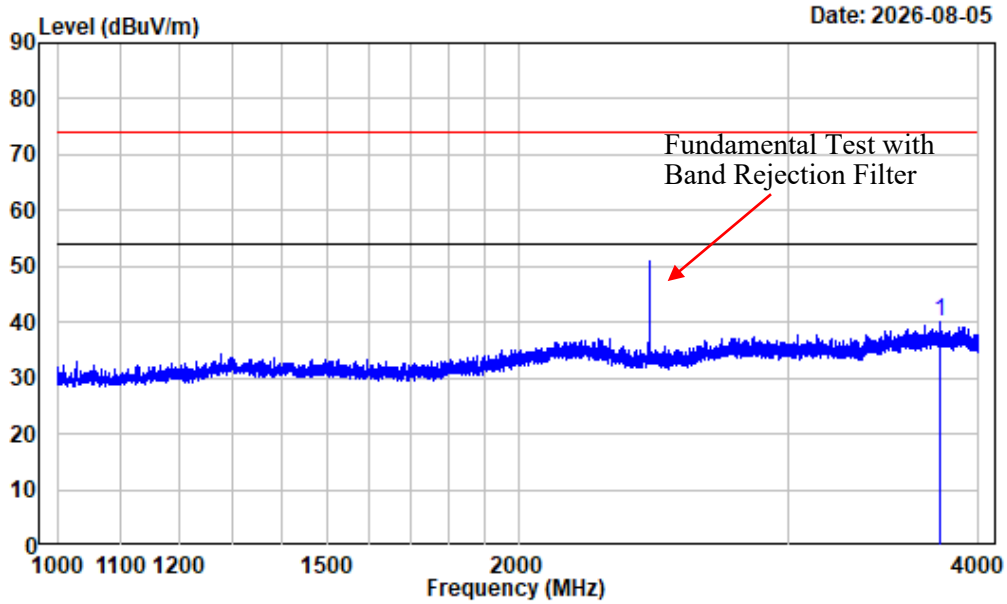
1-4GHz_Horizontal



Condition : Horizontal
Project No. : 2601V68095E-RF
Tester : Zenos Qiao
Spectrum setting: Peak reading:RBW:1MHz VBW:3MHz Detector:Peak
Note : BT-DH5-2441

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	3868.750	-8.70	47.77	39.07	74.00	-34.93	Peak

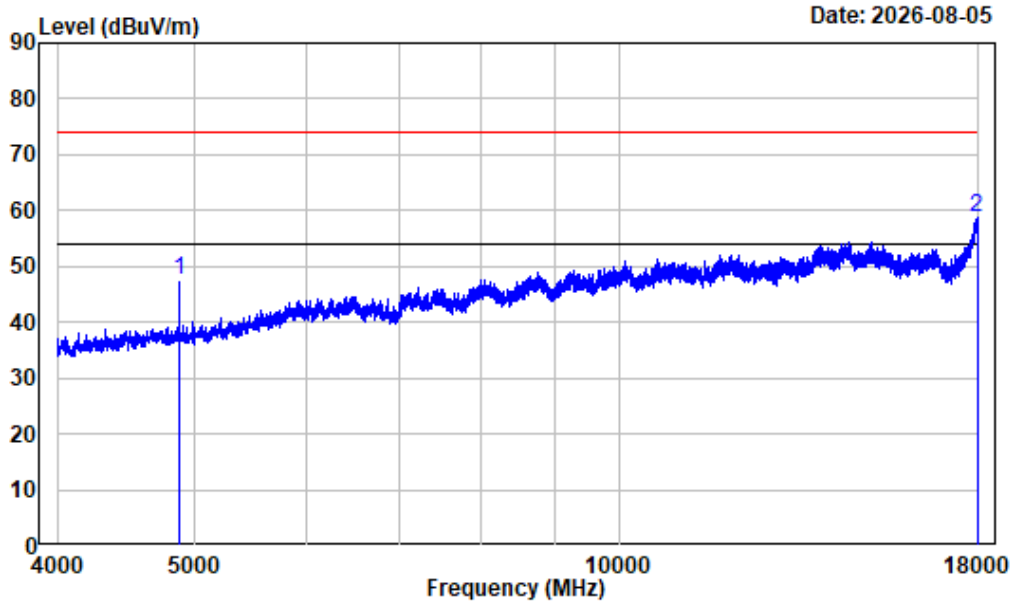
1-4GHz_Vertical



Condition : Vertical
Project No. : 2601V68095E-RF
Tester : Zenos Qiao
Spectrum setting: Peak reading:RBW:1MHz VBW:3MHz Detector:Peak
Note : BT-DH5-2441

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	3778.750	-8.65	48.59	39.94	74.00	-34.06	Peak

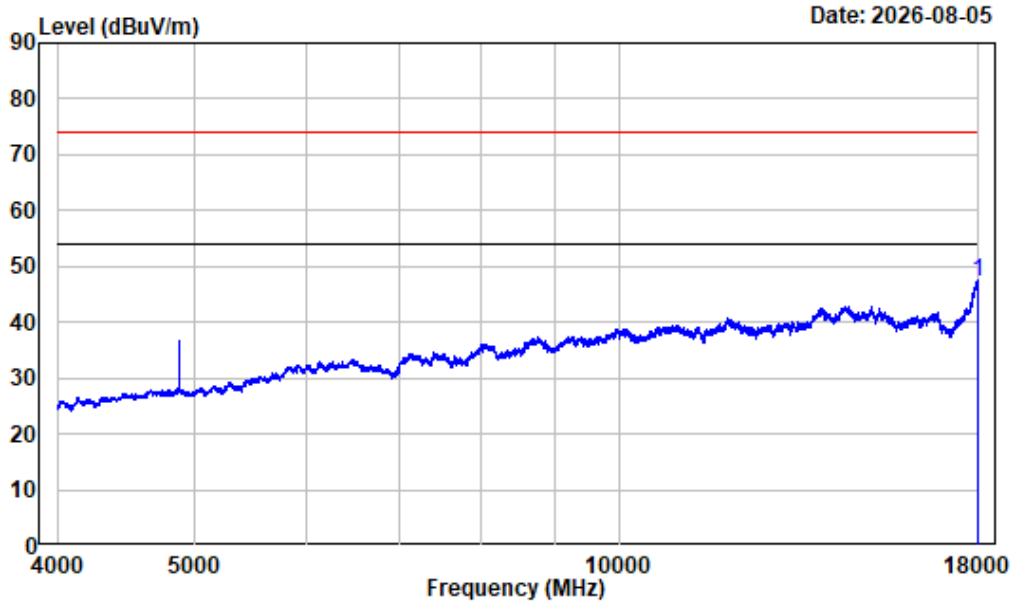
4-18GHz_Horizontal_Peak



Condition : Horizontal
Project No. : 2601V68095E-RF
Tester : Zenos Qiao
Spectrum setting: Peak reading:RBW:1MHz VBW:3MHz Detector:Peak
Note : BT-DH5-2441

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	4882.000	-8.60	56.04	47.44	74.00	-26.56	Peak
2	17958.000	10.04	48.71	58.75	74.00	-15.25	Peak

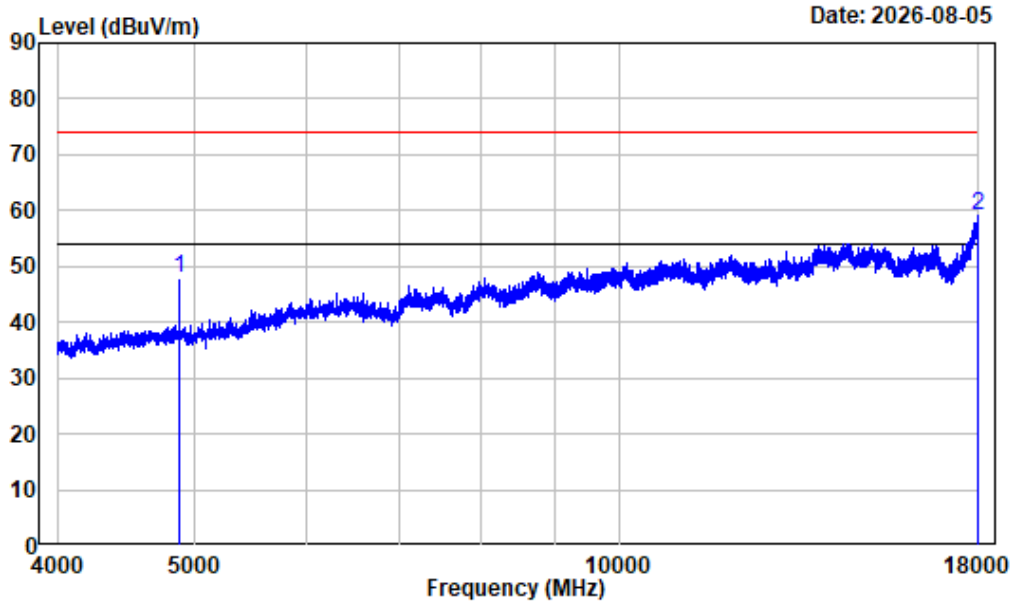
4-18GHz_Horizontal_Average



Condition : Horizontal
Project No. : 2601V68095E-RF
Tester : Zenos Qiao
Spectrum setting: Average reading:RBW:1MHz VBW:1kHz Detector:Peak
Note : BT-DH5-2441

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	17998.630	10.80	36.26	47.06	54.00	-6.94	Average

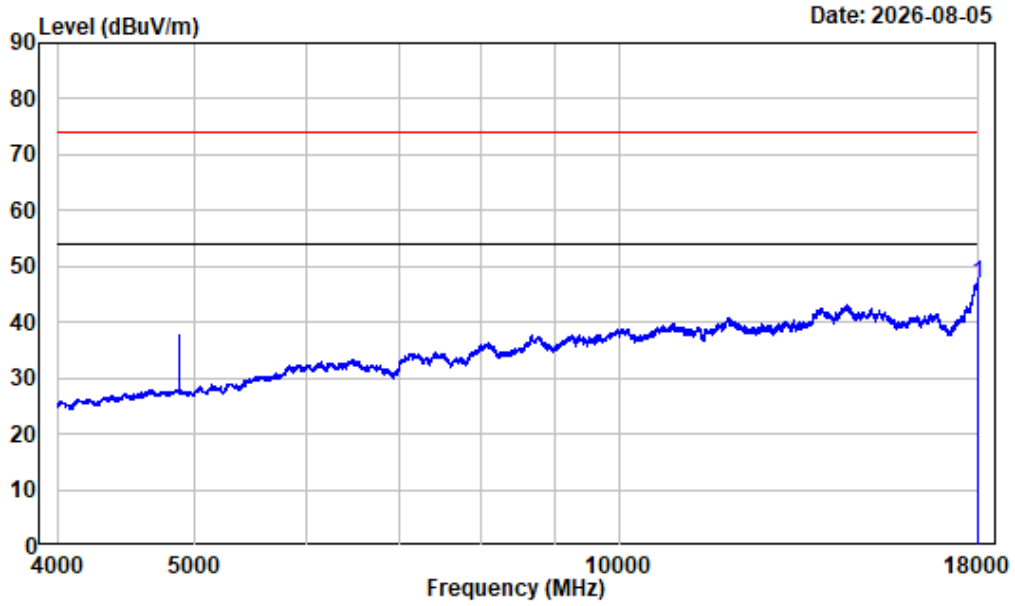
4-18GHz_Vertical_Peak



Condition : Vertical
Project No. : 2601V68095E-RF
Tester : Zenos Qiao
Spectrum setting: Peak reading:RBW:1MHz VBW:3MHz Detector:Peak
Note : BT-DH5-2441

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	4882.000	-8.60	56.59	47.99	74.00	-26.01	Peak
2	17959.750	10.08	48.88	58.96	74.00	-15.04	Peak

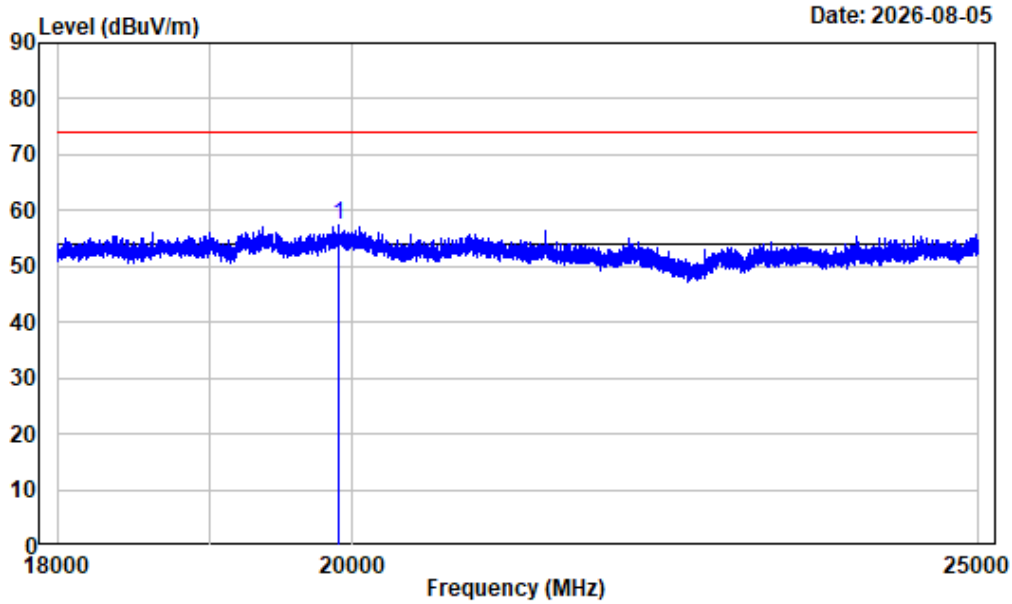
4-18GHz_Vertical_Average



Condition : Vertical
Project No. : 2601V68095E-RF
Tester : Zenos Qiao
Spectrum setting: Average reading:RBW:1MHz VBW:1kHz Detector:Peak
Note : BT-DH5-2441

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	17996.500	10.74	36.27	47.01	54.00	-6.99	Average

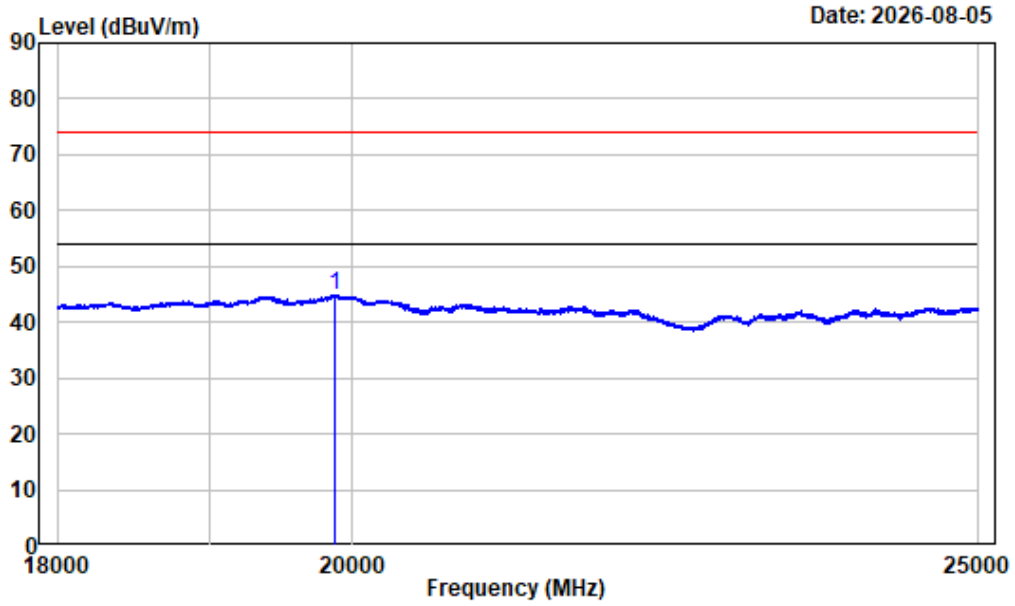
18-25GHz_Horizontal_Peak



Condition : Horizontal
Project No. : 2601V68095E-RF
Tester : Zenos Qiao
Spectrum setting: Peak reading:RBW:1MHz VBW:3MHz Detector:Peak
Note : BT-DH5-2441

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	19904.880	17.80	39.73	57.53	74.00	-16.47	Peak

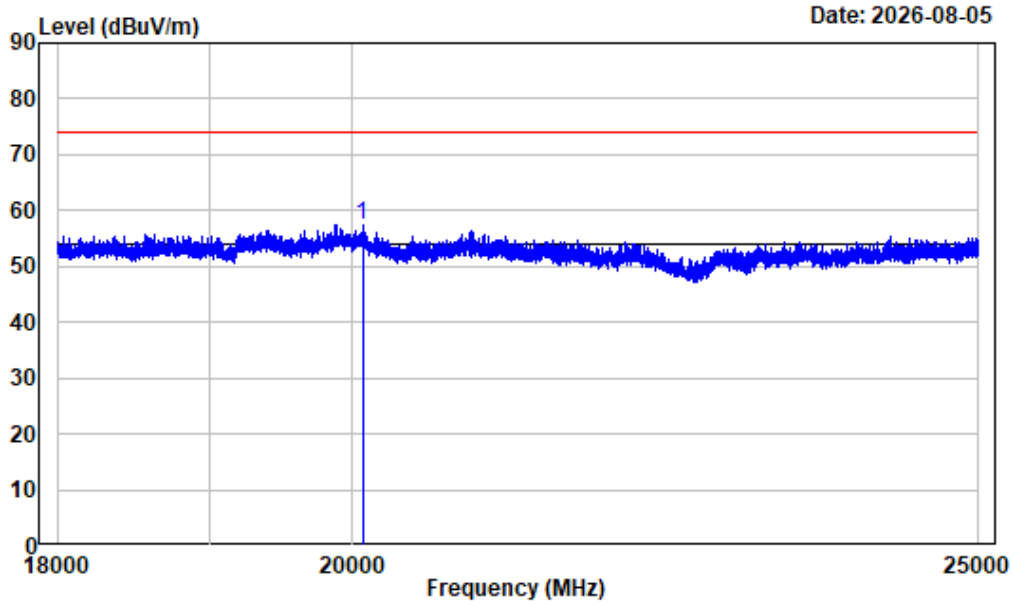
18-25GHz_Horizontal_Average



Condition : Horizontal
Project No. : 2601V68095E-RF
Tester : Zenos Qiao
Spectrum setting: Average reading:RBW:1MHz VBW:1kHz Detector:Peak
Note : BT-DH5-2441

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	19869.000	17.77	27.15	44.92	54.00	-9.08	Average

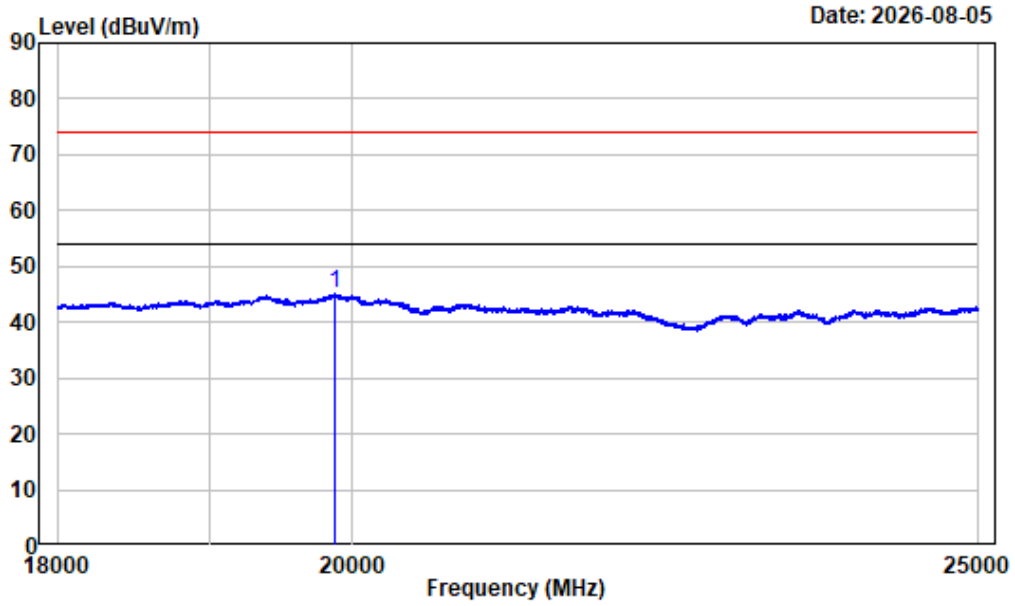
18-25GHz_Vertical_Peak



Condition : Vertical
Project No. : 2601V68095E-RF
Tester : Zenos Qiao
Spectrum setting: Peak reading:RBW:1MHz VBW:3MHz Detector:Peak
Note : BT-DH5-2441

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	20068.500	17.87	39.66	57.53	74.00	-16.47	Peak

18-25GHz_Vertical_Average

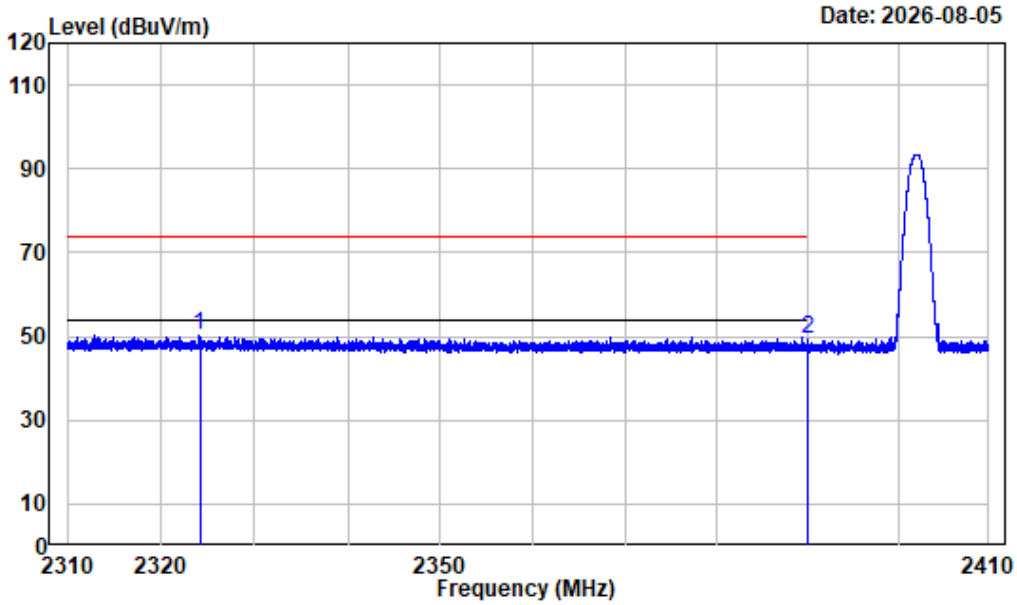


Condition : Vertical
Project No. : 2601V68095E-RF
Tester : Zenos Qiao
Spectrum setting: Average reading:RBW:1MHz VBW:1kHz Detector:Peak
Note : BT-DH5-2441

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	19869.880	17.77	27.24	45.01	54.00	-8.99	Average

Band Edge

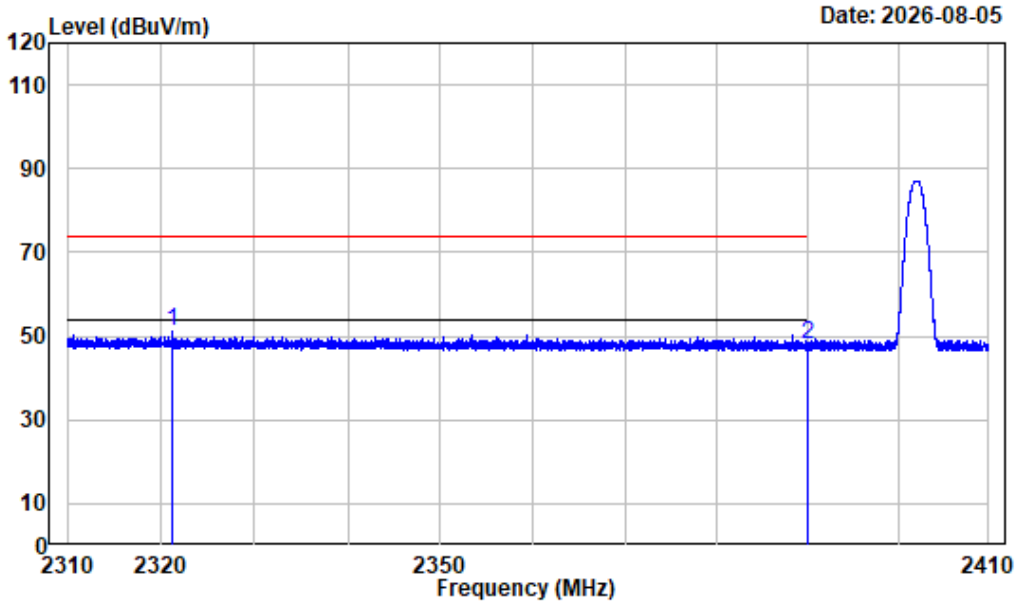
Left Band edge_Horizontal_DH5



Condition : Horizontal
Project No. : 2601V68095E-RF
Tester : Zenos Qiao
Spectrum setting: Peak reading:RBW:1MHz VBW:3MHz Detector:Peak
Note : BT-DH5-2402

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	2324.113	-11.28	61.48	50.20	74.00	-23.80	Peak
2	2390.000	-11.94	61.47	49.53	74.00	-24.47	Peak

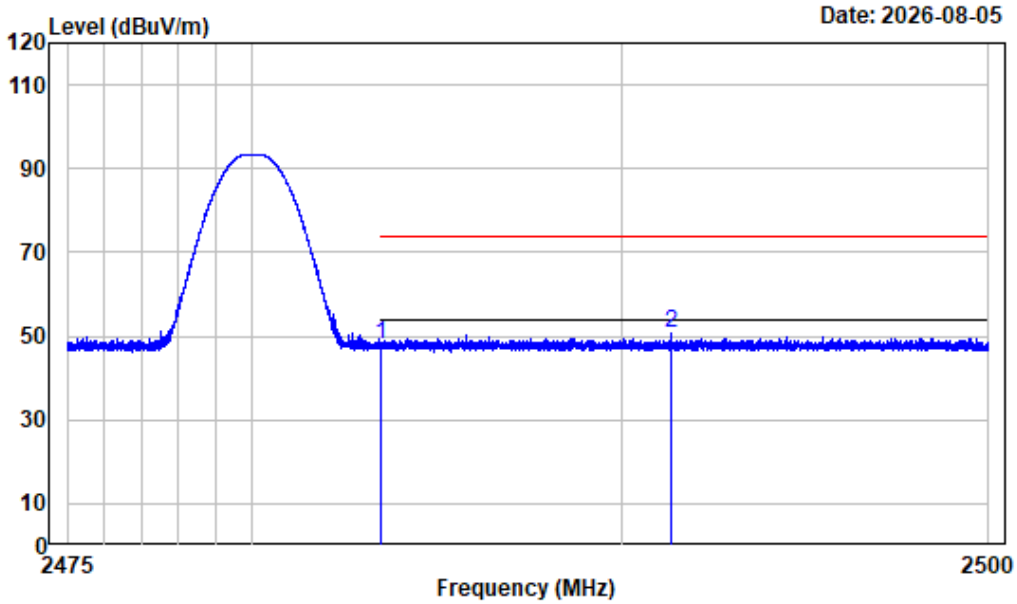
Left Band edge_Vertical_DH5



Condition : Vertical
Project No. : 2601V68095E-RF
Tester : Zenos Qiao
Spectrum setting: Peak reading:RBW:1MHz VBW:3MHz Detector:Peak
Note : BT-DH5-2402

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	2321.250	-11.26	62.50	51.24	74.00	-22.76	Peak
2	2390.000	-11.94	60.02	48.08	74.00	-25.92	Peak

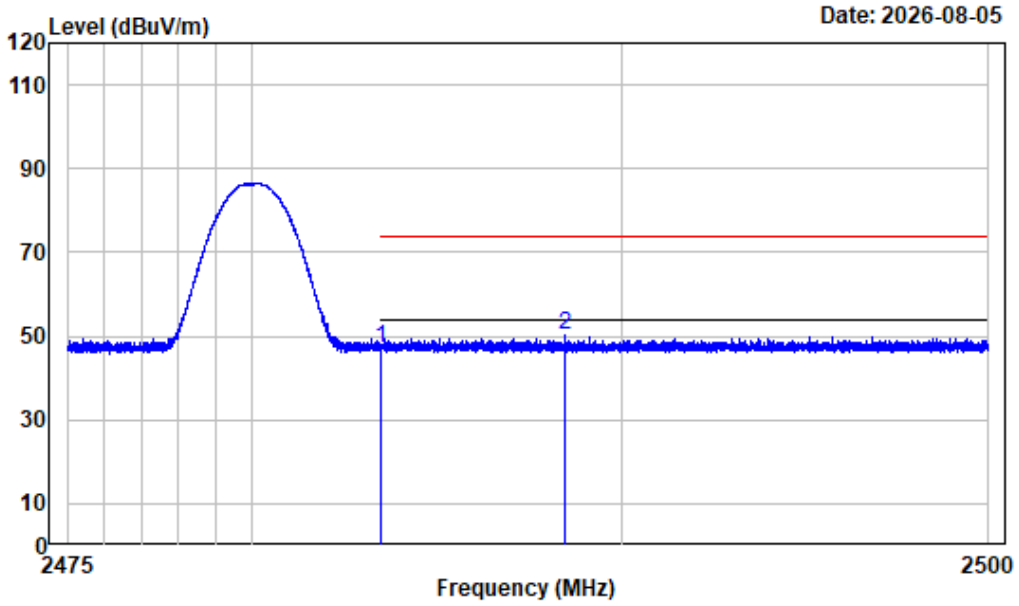
Right Band edge_Horizontal_DH5



Condition : Horizontal
Project No. : 2601V68095E-RF
Tester : Zenos Qiao
Spectrum setting: Peak reading:RBW:1MHz VBW:3MHz Detector:Peak
Note : BT-DH5-2480

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	2483.500	-12.27	60.36	48.09	74.00	-25.91	Peak
2	2491.359	-12.32	62.83	50.51	74.00	-23.49	Peak

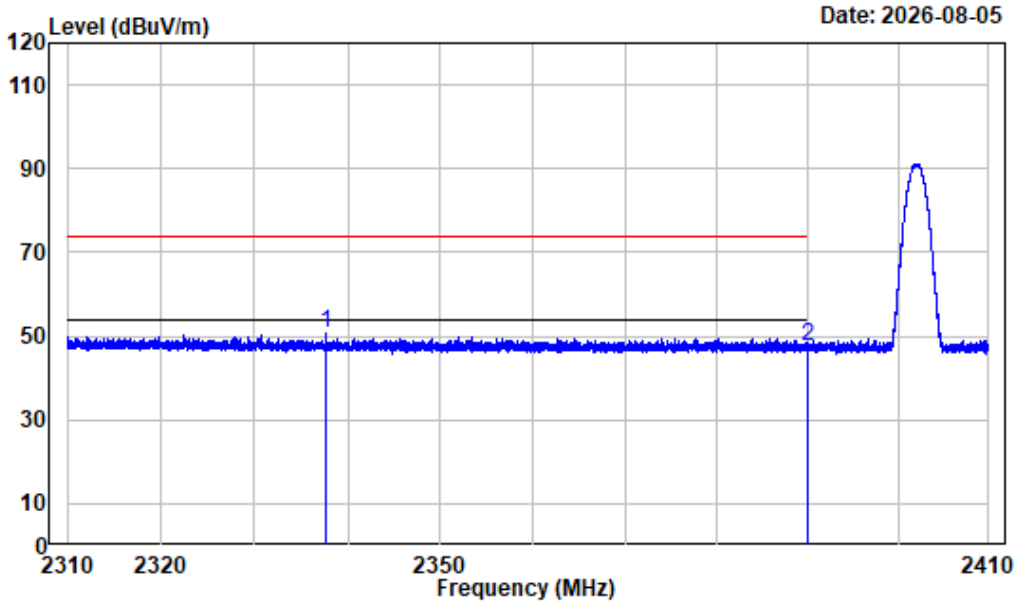
Right Band edge_Vertical_DH5



Condition : Vertical
Project No. : 2601V68095E-RF
Tester : Zenos Qiao
Spectrum setting: Peak reading:RBW:1MHz VBW:3MHz Detector:Peak
Note : BT-DH5-2480

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	2483.500	-12.27	59.23	46.96	74.00	-27.04	Peak
2	2488.466	-12.30	62.49	50.19	74.00	-23.81	Peak

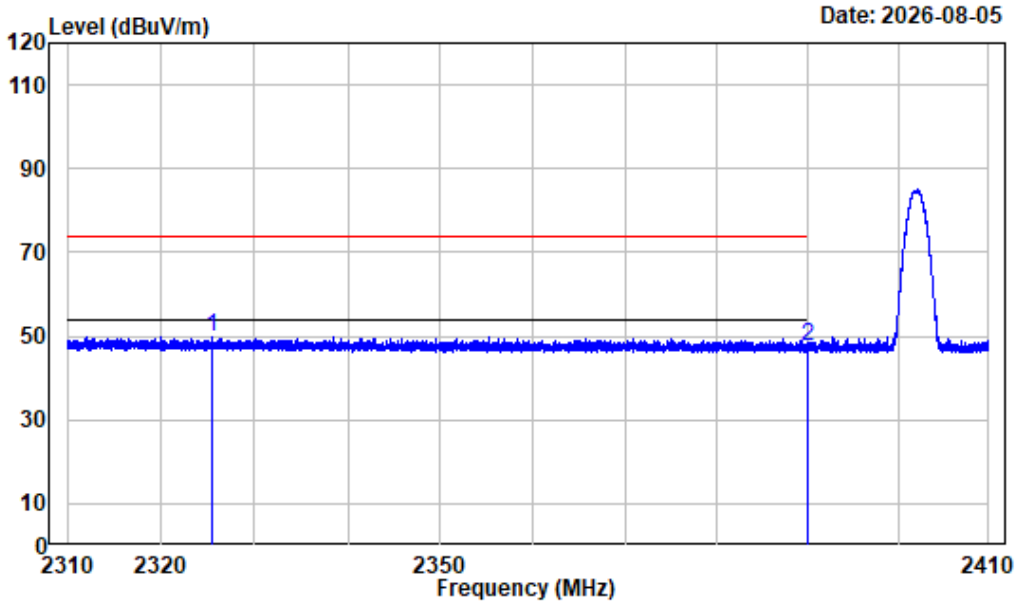
Left Band edge_Horizontal_2DH5



Condition : Horizontal
Project No. : 2601V68095E-RF
Tester : Zenos Qiao
Spectrum setting: Peak reading:RBW:1MHz VBW:3MHz Detector:Peak
Note : BT-2DH5-2402

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	2337.600	-11.41	61.91	50.50	74.00	-23.50	Peak
2	2390.000	-11.94	59.30	47.36	74.00	-26.64	Peak

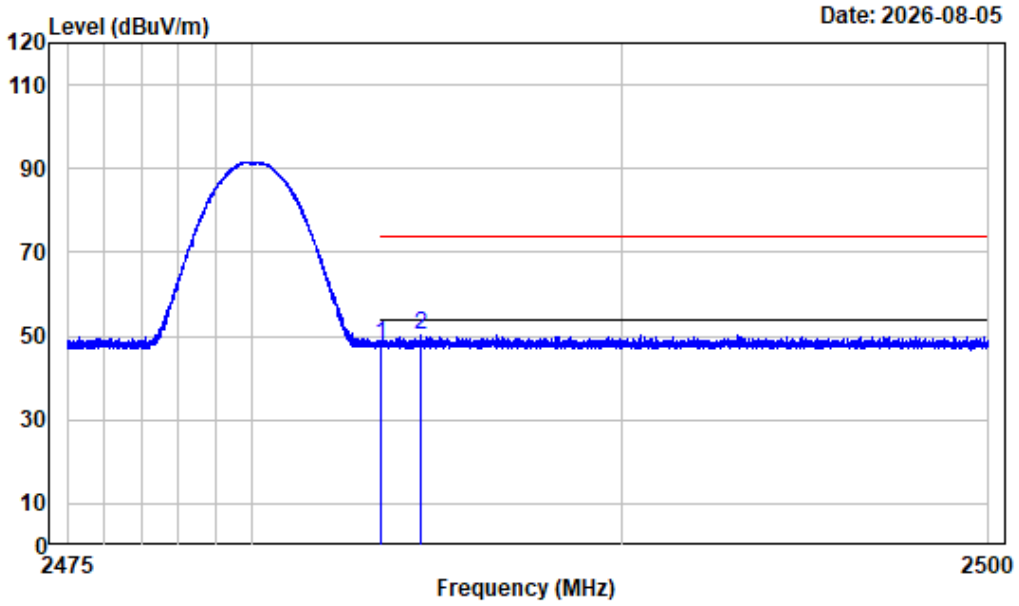
Left Band edge_Vertical_2DH5



Condition : Vertical
Project No. : 2601V68095E-RF
Tester : Zenos Qiao
Spectrum setting: Peak reading:RBW:1MHz VBW:3MHz Detector:Peak
Note : BT-2DH5-2402

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	2325.525	-11.30	61.21	49.91	74.00	-24.09	Peak
2	2390.000	-11.94	59.69	47.75	74.00	-26.25	Peak

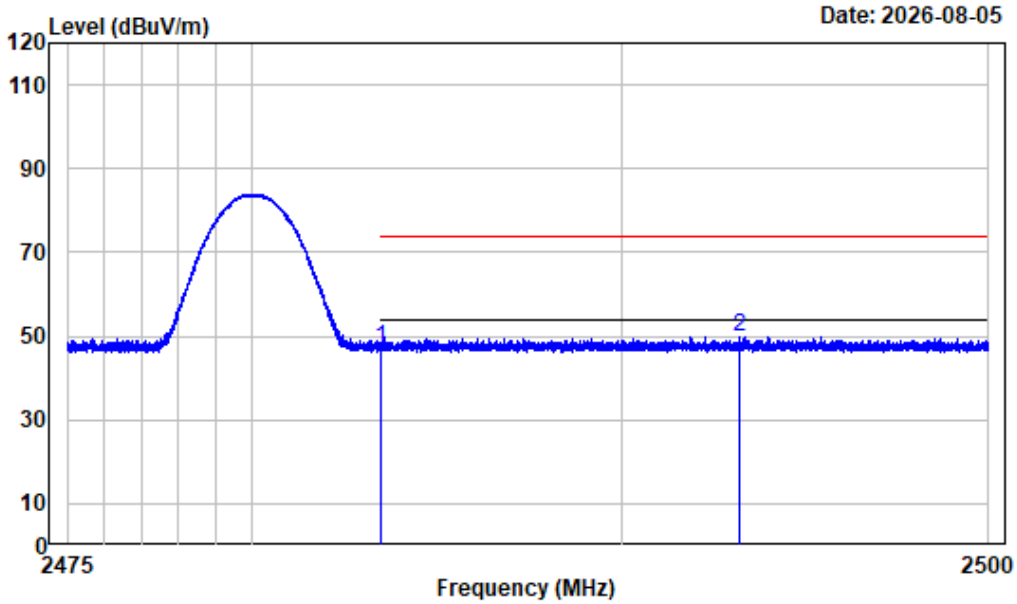
Right Band edge_Horizontal_2DH5



Condition : Horizontal
Project No. : 2601V68095E-RF
Tester : Zenos Qiao
Spectrum setting: Peak reading:RBW:1MHz VBW:3MHz Detector:Peak
Note : BT-2DH5-2480

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	2483.500	-12.27	60.40	48.13	74.00	-25.87	Peak
2	2484.578	-12.28	62.65	50.37	74.00	-23.63	Peak

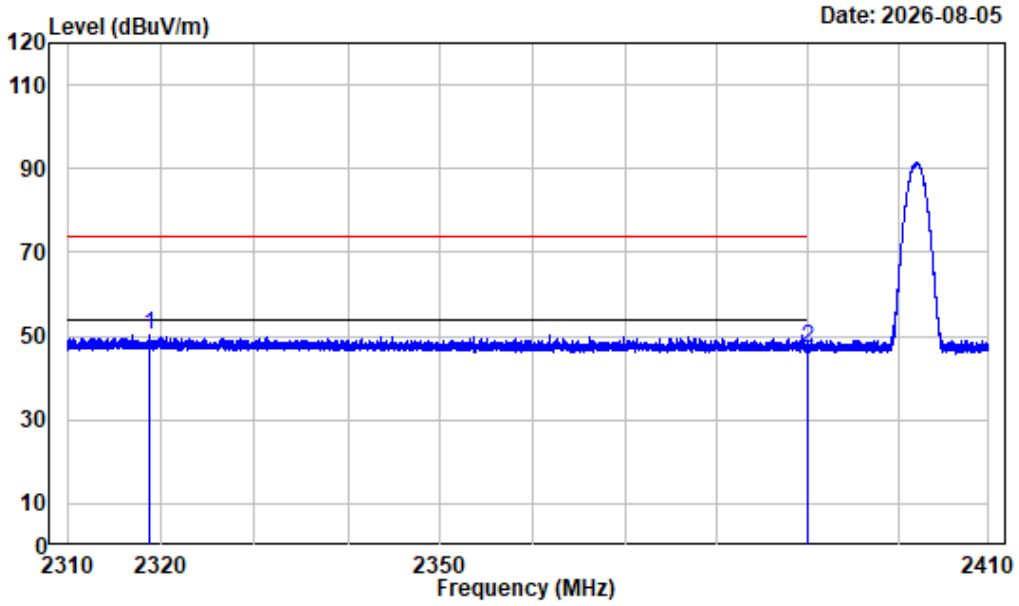
Right Band edge_Vertical_2DH5



Condition : Vertical
Project No. : 2601V68095E-RF
Tester : Zenos Qiao
Spectrum setting: Peak reading:RBW:1MHz VBW:3MHz Detector:Peak
Note : BT-2DH5-2480

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	2483.500	-12.27	59.26	46.99	74.00	-27.01	Peak
2	2493.241	-12.34	62.27	49.93	74.00	-24.07	Peak

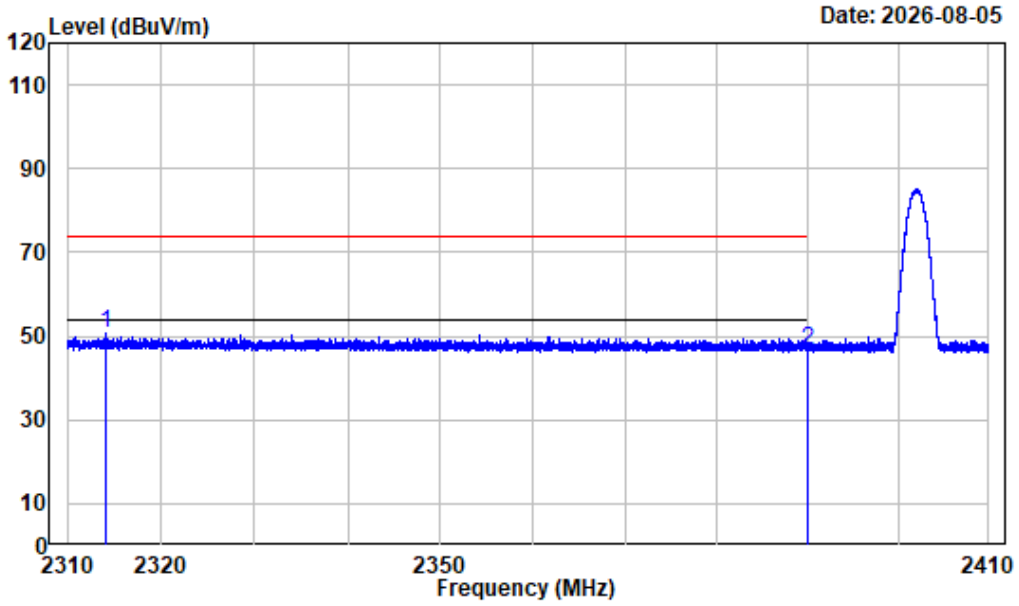
Left Band edge_Horizontal_3DH5



Condition : Horizontal
Project No. : 2601V68095E-RF
Tester : Zenos Qiao
Spectrum setting: Peak reading:RBW:1MHz VBW:3MHz Detector:Peak
Note : BT-3DH5-2402

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	2318.800	-11.24	61.72	50.48	74.00	-23.52	Peak
2	2390.000	-11.94	58.97	47.03	74.00	-26.97	Peak

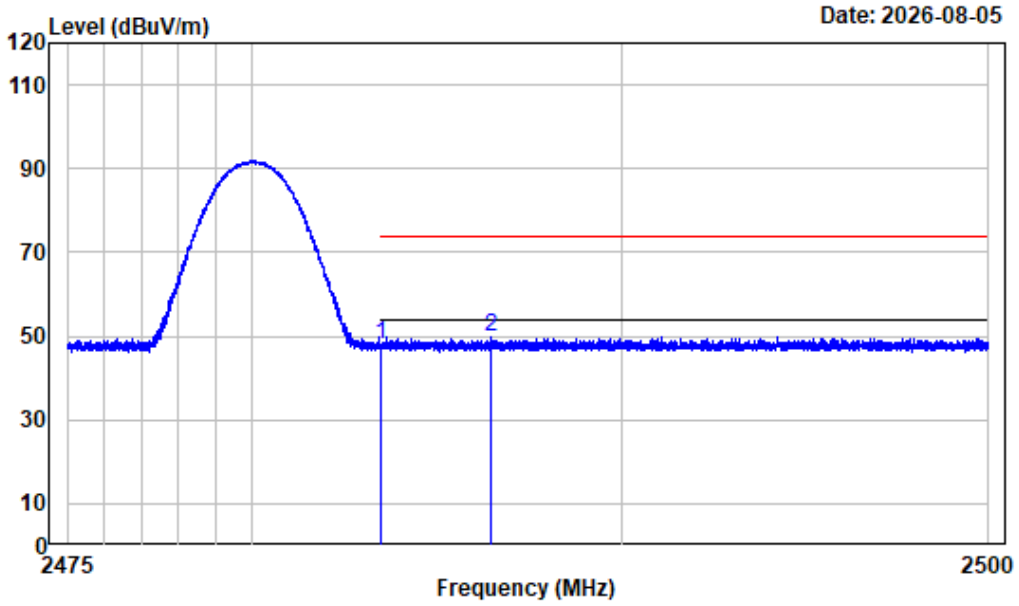
Left Band edge_Vertical_3DH5



Condition : Vertical
Project No. : 2601V68095E-RF
Tester : Zenos Qiao
Spectrum setting: Peak reading:RBW:1MHz VBW:3MHz Detector:Peak
Note : BT-3DH5-2402

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	2314.075	-11.19	61.82	50.63	74.00	-23.37	Peak
2	2390.000	-11.94	58.64	46.70	74.00	-27.30	Peak

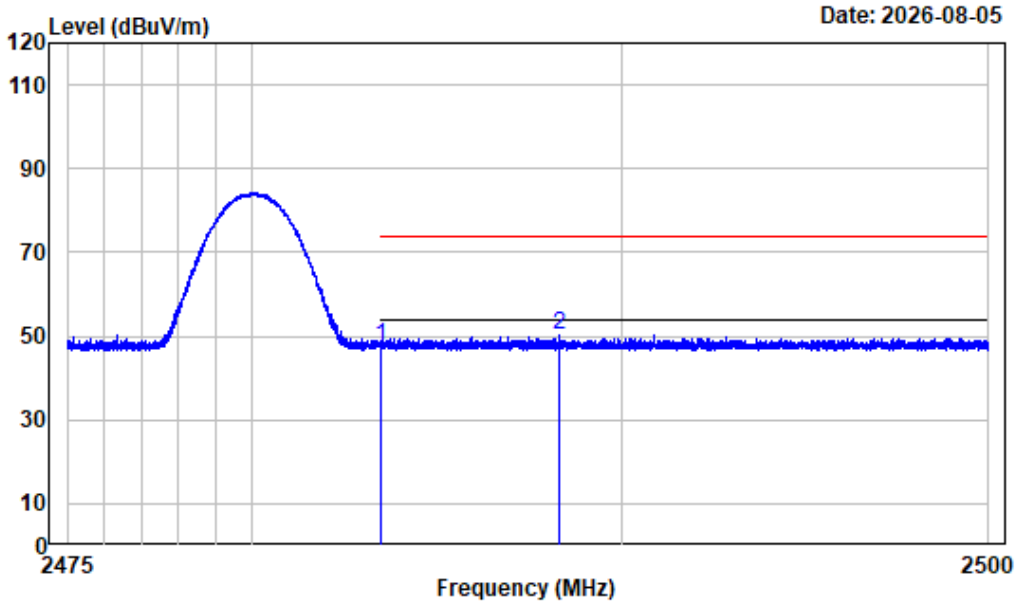
Right Band edge_Horizontal_3DH5



Condition : Horizontal
Project No. : 2601V68095E-RF
Tester : Zenos Qiao
Spectrum setting: Peak reading:RBW:1MHz VBW:3MHz Detector:Peak
Note : BT-3DH5-2480

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	2483.500	-12.27	60.24	47.97	74.00	-26.03	Peak
2	2486.459	-12.29	62.23	49.94	74.00	-24.06	Peak

Right Band edge_Vertical_3DH5



Condition : Vertical
Project No. : 2601V68095E-RF
Tester : Zenos Qiao
Spectrum setting: Peak reading:RBW:1MHz VBW:3MHz Detector:Peak
Note : BT-3DH5-2480

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	2483.500	-12.27	59.81	47.54	74.00	-26.46	Peak
2	2488.334	-12.30	62.67	50.37	74.00	-23.63	Peak

20 dB Emission Bandwidth

Test Information:

Sample No.:	3PF5-1	Test Date:	2026/08/08
Test Site:	RF	Test Mode:	Transmitting
Tester:	Barry Feng	Test Result:	N/A

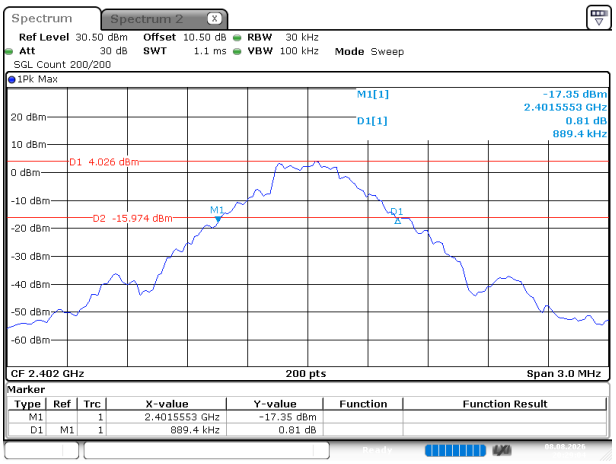
Environmental Conditions:

Temperature: (°C)	25.6	Relative Humidity: (%)	56	ATM Pressure: (kPa)	100.3

Test Data:

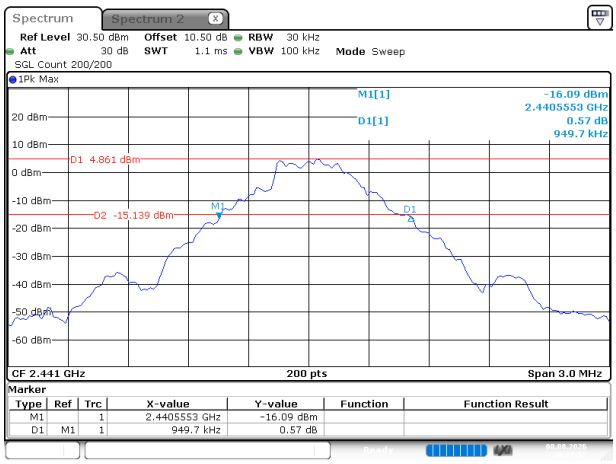
Mode	Channel	Result (MHz)
DH1	Low Channel	0.889
	Middle Channel	0.950
	High Channel	0.874
2DH1	Low Channel	**1.327**
	Middle Channel	**1.327**
	High Channel	**1.327**
3DH1	Low Channel	1.297
	Middle Channel	1.281
	High Channel	1.281

DH1_Low



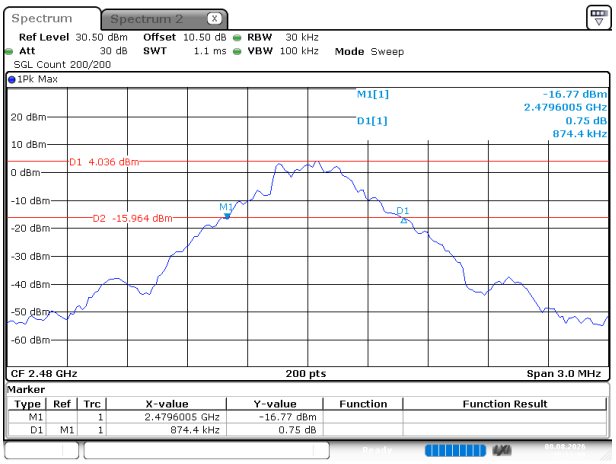
ProjectNo.:2601V68095E-RF Tester:Barry Feng
Date: 8.AUG.2026 20:29:04

DH1_Middle



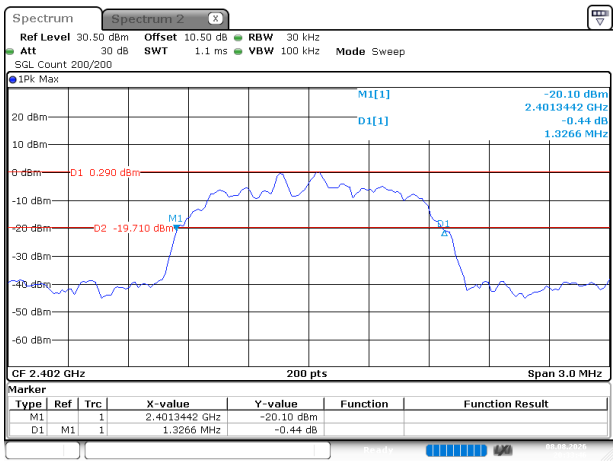
ProjectNo.:2601V68095E-RF Tester:Barry Feng
Date: 8.AUG.2026 20:27:52

DH1_High



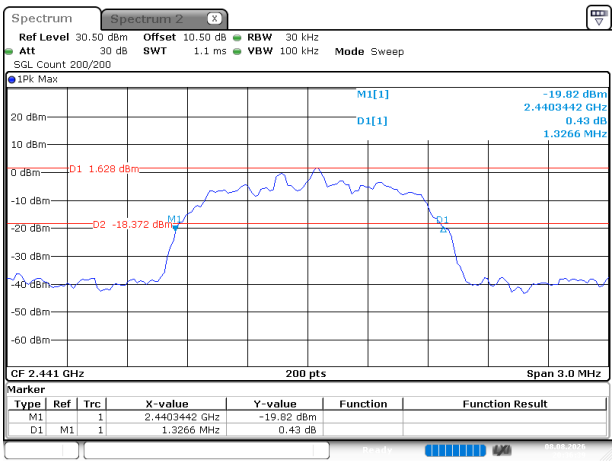
ProjectNo.:2601V68095E-RF Tester:Barry Feng
Date: 8.AUG.2026 20:31:19

2DH1_Low



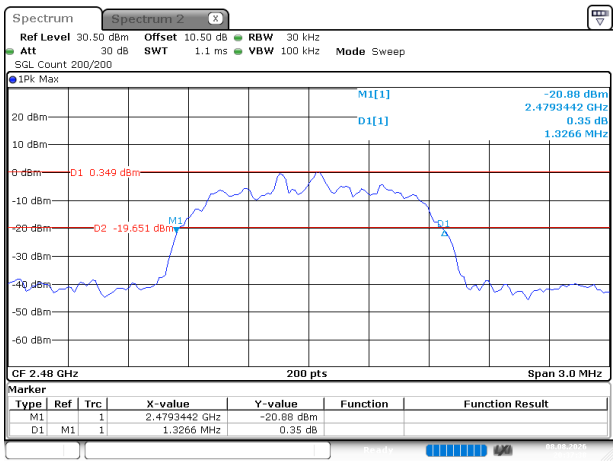
ProjectNo.:2601V68095E-RF Tester:Barry Feng
Date: 8.AUG.2026 20:33:46

2DH1_Middle



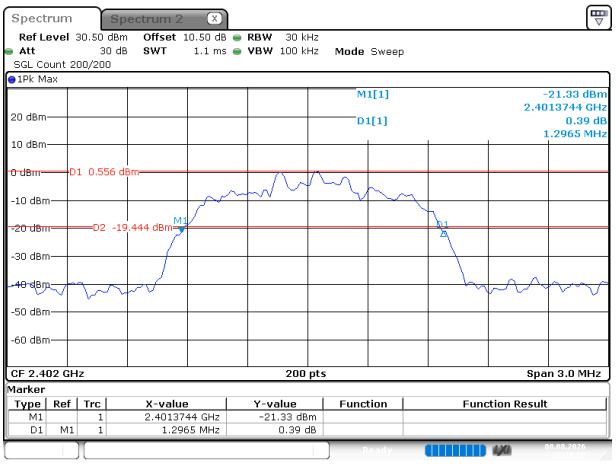
ProjectNo.:2601V68095E-RF Tester:Barry Feng
Date: 8.AUG.2026 20:36:39

2DH1_High



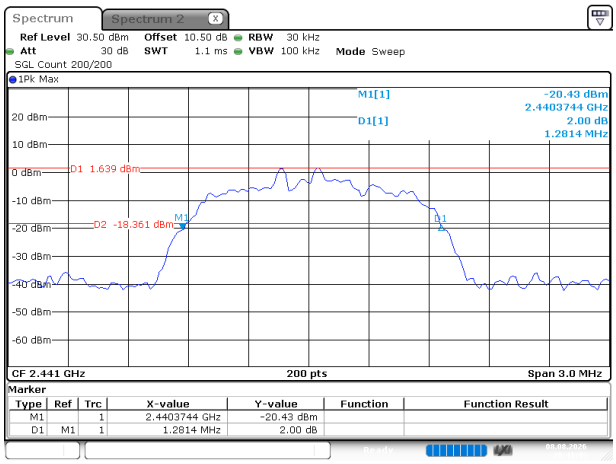
ProjectNo.:2601V68095E-RF Tester:Barry Feng
Date: 8.AUG.2026 20:37:38

3DH1_Low



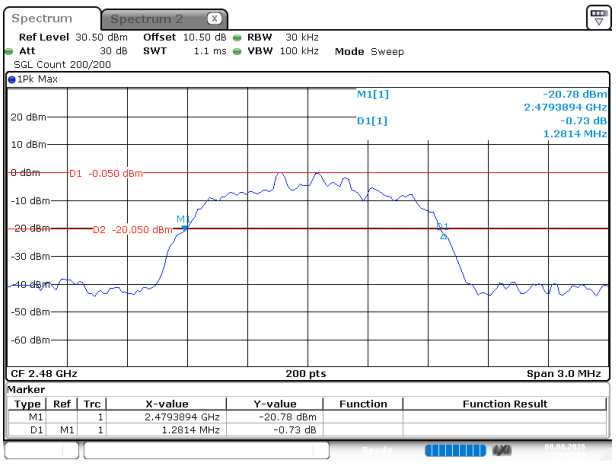
ProjectNo.:2601V68095E-RF Tester:Barry Feng
Date: 8.AUG.2026 20:39:58

3DH1_Middle



ProjectNo.:2601V68095E-RF Tester:Barry Feng
Date: 8.AUG.2026 20:41:43

3DH1_High



ProjectNo.:2601V68095E-RF Tester:Barry Feng
Date: 8.AUG.2026 20:45:19

99% Occupied Bandwidth

Test Information:

Sample No.:	3PF5-1	Test Date:	2026/08/08
Test Site:	RF	Test Mode:	Transmitting
Tester:	Barry Feng	Test Result:	N/A

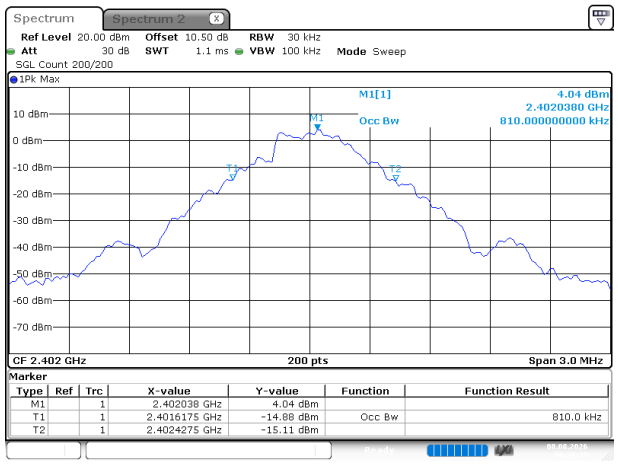
Environmental Conditions:

Temperature: (°C)	25.6	Relative Humidity: (%)	56	ATM Pressure: (kPa)	100.3

Test Data:

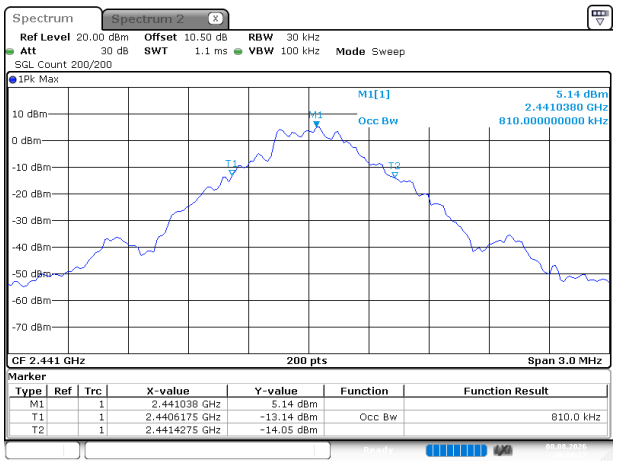
Mode	Channel	99% OBW (MHz)
DH1	Low Channel	0.810
	Middle Channel	0.810
	High Channel	0.825
2DH1	Low Channel	**1.185**
	Middle Channel	**1.185**
	High Channel	**1.185**
3DH1	Low Channel	1.155
	Middle Channel	1.155
	High Channel	1.155

DH1_Low



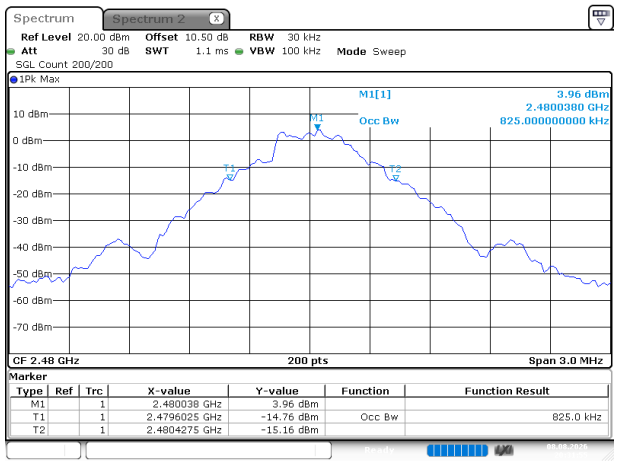
ProjectNo.:2601V68095E-RF Tester:Barry Feng
Date: 8.AUG.2026 20:29:39

DH1_Middle



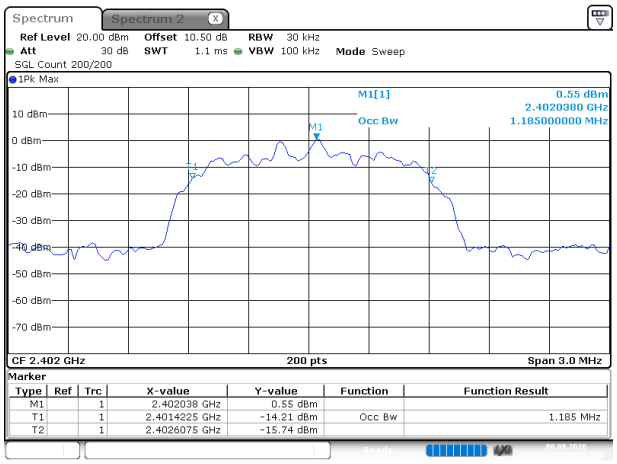
ProjectNo.:2601V68095E-RF Tester:Barry Feng
Date: 8.AUG.2026 20:28:27

DH1_High



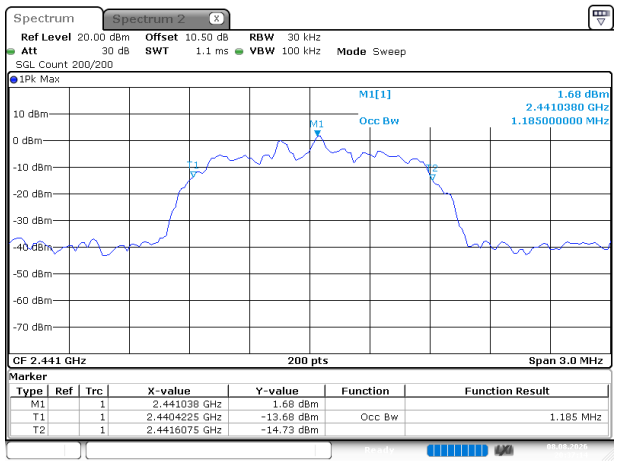
ProjectNo.:2601V68095E-RF Tester:Barry Feng
Date: 8.AUG.2026 20:31:56

2DH1_Low



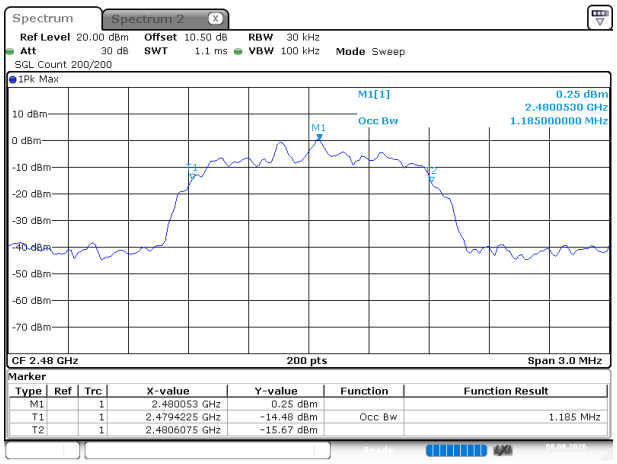
ProjectNo.:2601V68095E-RF Tester:Barry Feng
Date: 8.AUG.2026 20:34:23

2DH1_Middle



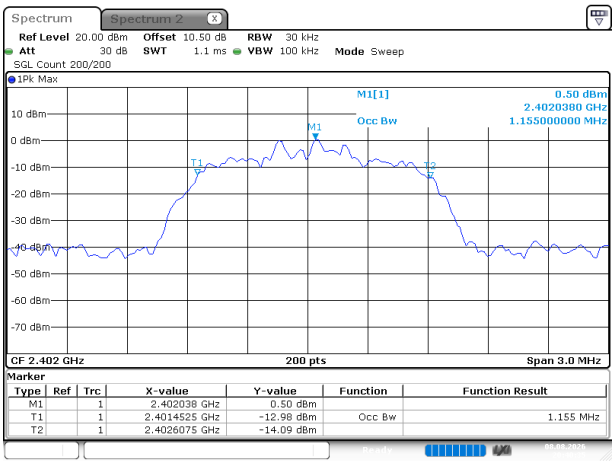
ProjectNo.:2601V68095E-RF Tester:Barry Feng
Date: 8.AUG.2026 20:37:15

2DH1_High



ProjectNo.:2601V68095E-RF Tester:Barry Feng
Date: 8.AUG.2026 20:38:37

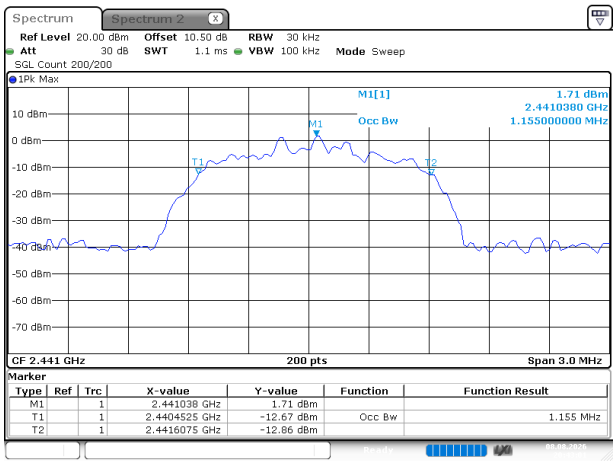
3DH1_Low



ProjectNo.:2601V68095E-RF Tester:Barry Feng

Date: 8.AUG.2026 20:40:35

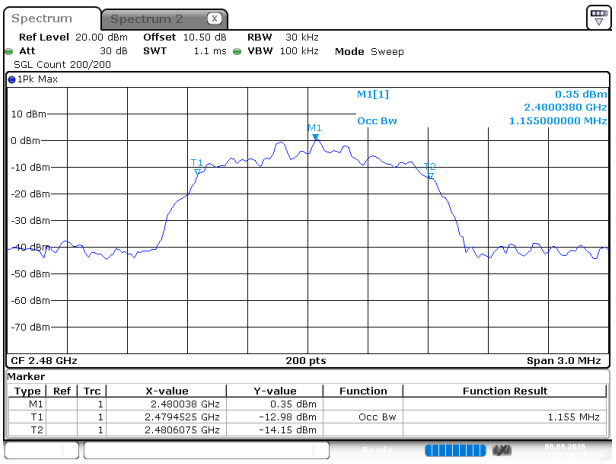
3DH1_Middle



ProjectNo.:2601V68095E-RF Tester:Barry Feng

Date: 8.AUG.2026 20:43:01

3DH1_High



ProjectNo.:2601V68095E-RF Tester:Barry Feng

Date: 8.AUG.2026 20:46:14

Channel Separation

Test Information:

Sample No.:	3PF5-1	Test Date:	2026/08/08
Test Site:	RF	Test Mode:	Transmitting
Tester:	Barry Feng	Test Result:	Pass

Environmental Conditions:

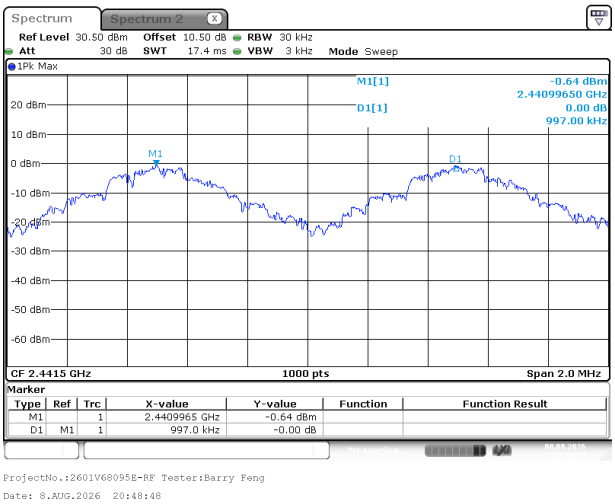
Temperature: (°C)	25.6	Relative Humidity: (%)	56	ATM Pressure: (kPa)	100.3

Test Data:

Mode	Channel	Result (MHz)	Limit (MHz)	Verdict
DH1	Middle Channel	**0.997**	0.884	Pass

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

DH1_Middle



Number of Hopping Frequency

Test Information:

Sample No.:	3PF5-1	Test Date:	2026/08/08
Test Site:	RF	Test Mode:	Transmitting
Tester:	Barry Feng	Test Result:	Pass

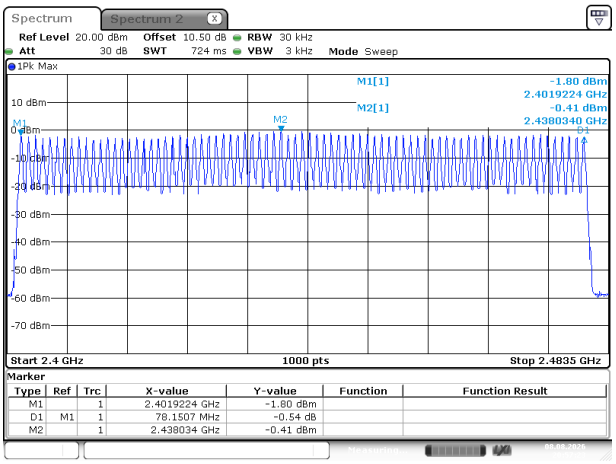
Environmental Conditions:

Temperature: (°C)	25.6	Relative Humidity: (%)	56	ATM Pressure: (kPa)	100.3

Test Data:

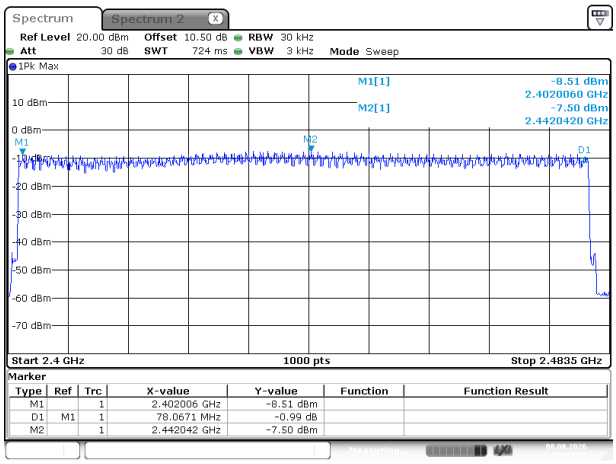
Mode	Channel	Result	Limit	Verdict
DH1	Hopping Channel	**79**	15	Pass
2DH1	Hopping Channel	**79**	15	Pass
3DH1	Hopping Channel	**79**	15	Pass

DH1_Hopping



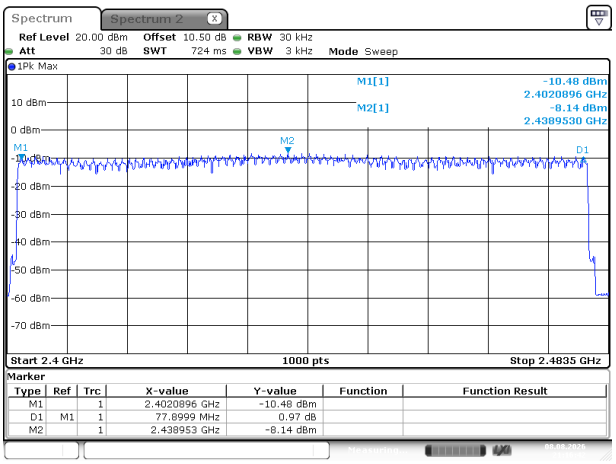
ProjectNo.:2601V68095E-RF Tester:Barry Feng
Date: 8.AUG.2026 20:57:23

2DH1_Hopping



ProjectNo.:2601V68095E-RF Tester:Barry Feng
Date: 8.AUG.2026 21:07:50

3DH1_Hopping



ProjectNo.:2601V68095E-RF Tester:Barry Feng
Date: 8.AUG.2026 21:16:42

Maximum Conducted Output Power

Test Information:

Sample No.:	3PF5-1	Test Date:	2026/08/08
Test Site:	RF	Test Mode:	Transmitting
Tester:	Barry Feng	Test Result:	Pass

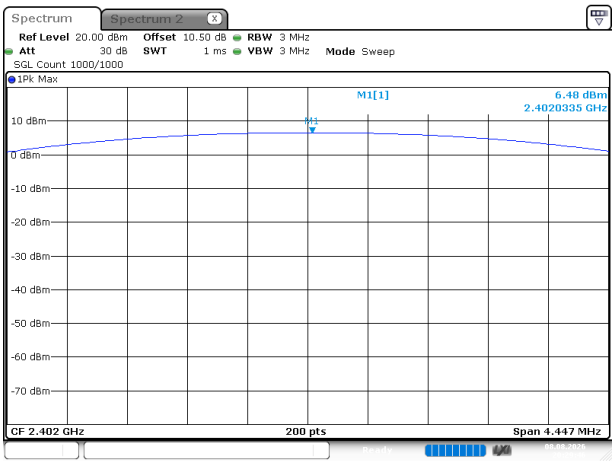
Environmental Conditions:

Temperature: (°C)	25.6	Relative Humidity: (%)	56	ATM Pressure: (kPa)	100.3

Test Data:

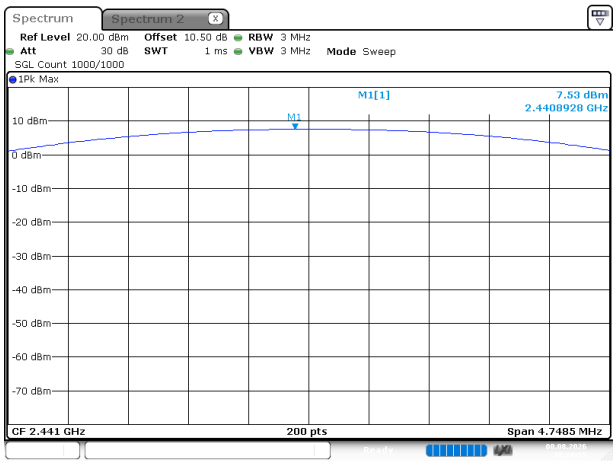
Mode	Test Frequency (MHz)	Peak Output Power (dBm)	Limit (dBm)	Verdict
DH1	2402	6.48	21.00	Pass
	2441	**7.53**	21.00	Pass
	2480	6.33	21.00	Pass
2DH1	2402	4.94	21.00	Pass
	2441	6.02	21.00	Pass
	2480	4.78	21.00	Pass
3DH1	2402	5.45	21.00	Pass
	2441	6.53	21.00	Pass
	2480	5.28	21.00	Pass

DH1_Low



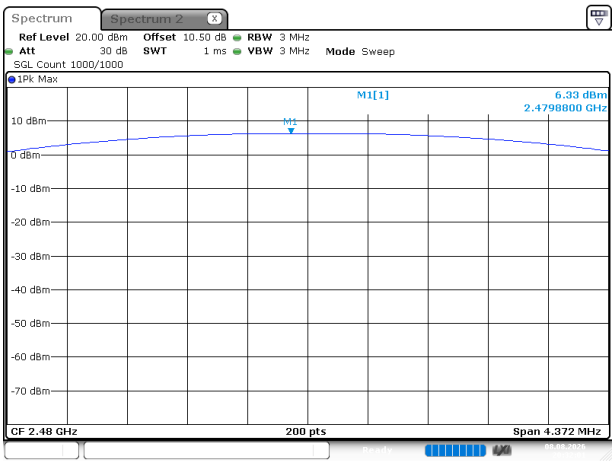
ProjectNo.:2601V68095E-RF Tester:Barry Feng
Date: 8.AUG.2026 20:29:46

DH1_Middle



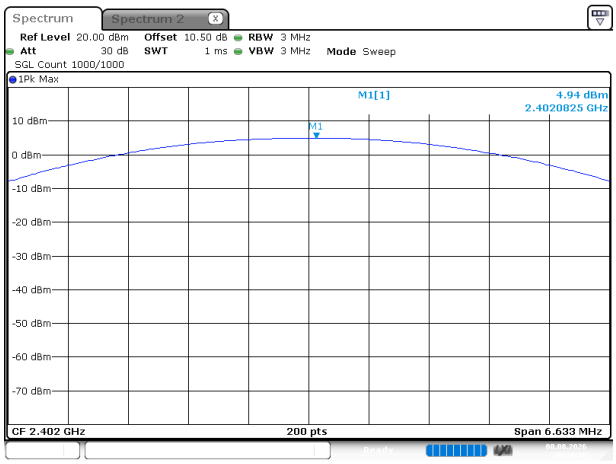
ProjectNo.:2601V68095E-RF Tester:Barry Feng
Date: 8.AUG.2026 20:28:35

DH1_High



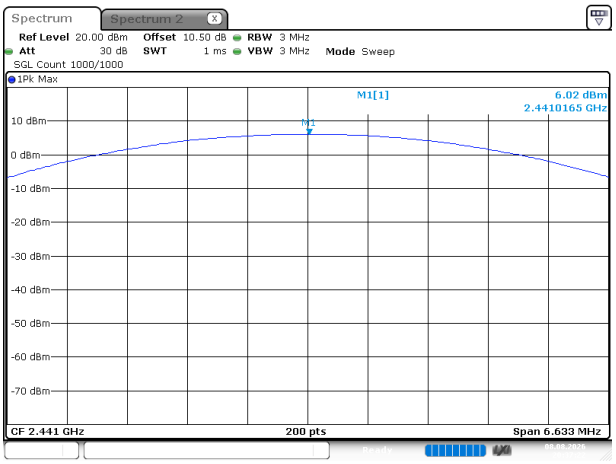
ProjectNo.:2601V68095E-RF Tester:Barry Feng
Date: 8.AUG.2026 20:32:01

2DH1_Low



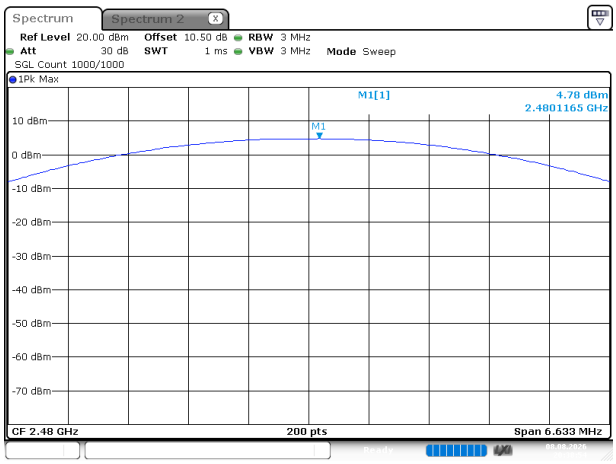
ProjectNo.:2601V68095E-RF Tester:Barry Feng
Date: 8.AUG.2026 20:34:29

2DH1_Middle



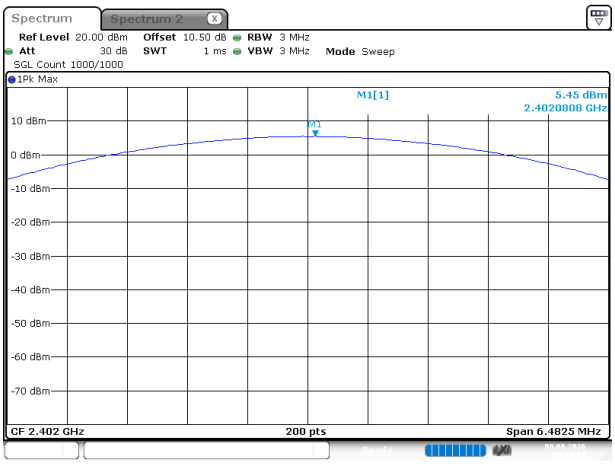
ProjectNo.:2601V68095E-RF Tester:Barry Feng
Date: 8.AUG.2026 20:37:22

2DH1_High



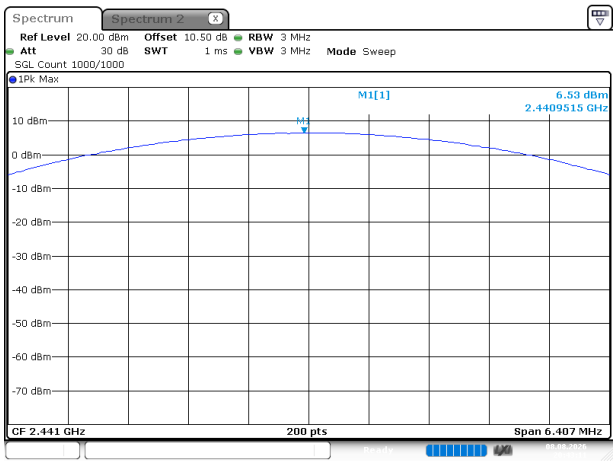
ProjectNo.:2601V68095E-RF Tester:Barry Feng
Date: 8.AUG.2026 20:38:55

3DH1_Low



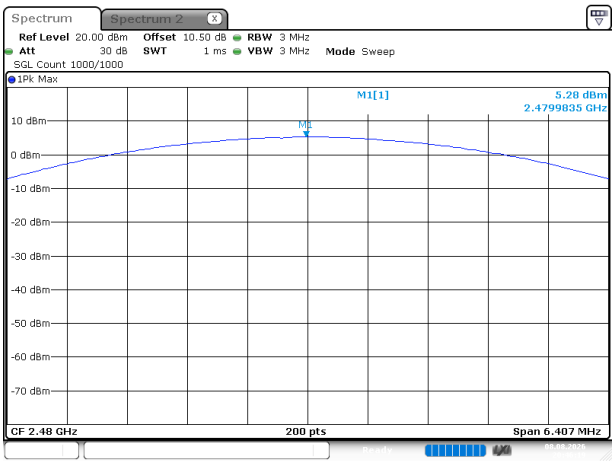
ProjectNo.:2601V68095E-RF Tester:Barry Feng
Date: 8.AUG.2026 20:40:41

3DH1_Middle



ProjectNo.:2601V68095E-RF Tester:Barry Feng
Date: 8.AUG.2026 20:43:12

3DH1_High



ProjectNo.:2601V68095E-RF Tester:Barry Feng
Date: 8.AUG.2026 20:46:19

100 kHz Bandwidth of Frequency Band Edge

Test Information:

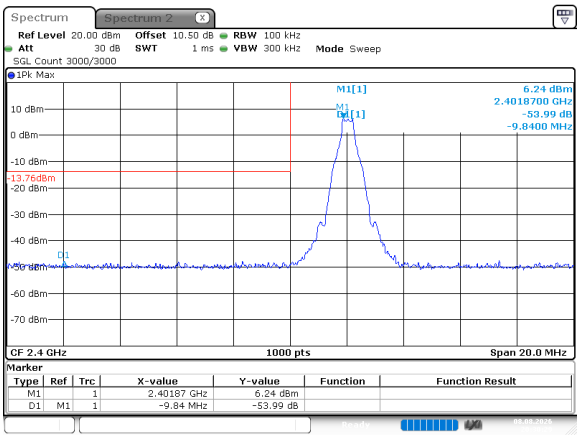
Sample No.:	3PF5-1	Test Date:	2026/08/08
Test Site:	RF	Test Mode:	Transmitting
Tester:	Barry Feng	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	25.6	Relative Humidity: (%)	56	ATM Pressure: (kPa)	100.3

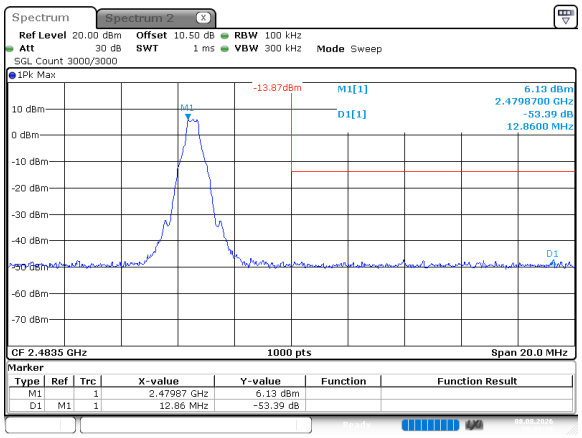
Test Data:

DH1_Low



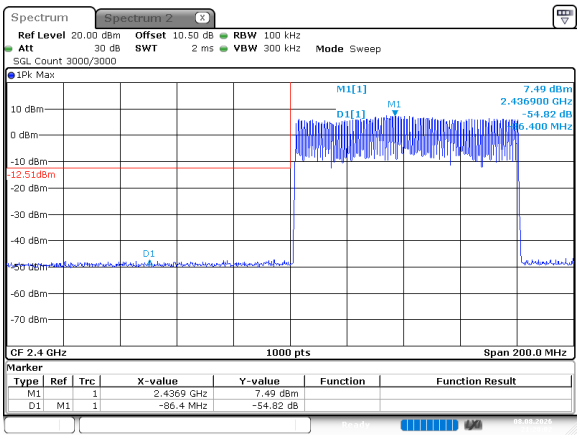
ProjectNo.:2601V68095E-RF Tester:Barry Feng
Date: 8.AUG.2026 20:30:29

DH1_High



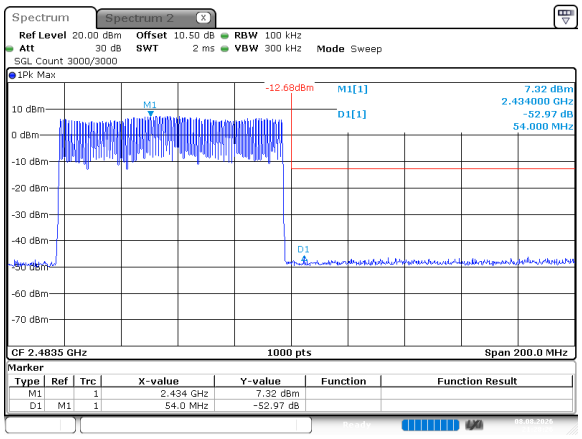
ProjectNo.:2601V68095E-RF Tester:Barry Feng
Date: 8.AUG.2026 20:32:30

DH1_Hopping_Lower



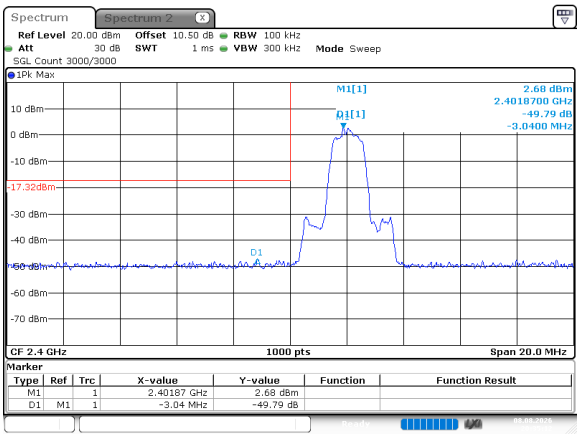
ProjectNo.:2601V68095E-RF Tester:Barry Feng
Date: 8.AUG.2026 21:28:03

DH1_Hopping_Upper



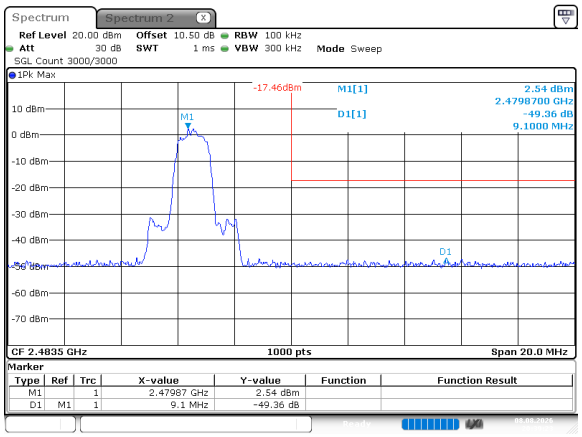
ProjectNo.:2601V68095E-RF Tester:Barry Feng
Date: 8.AUG.2026 21:28:26

2DH1_Low



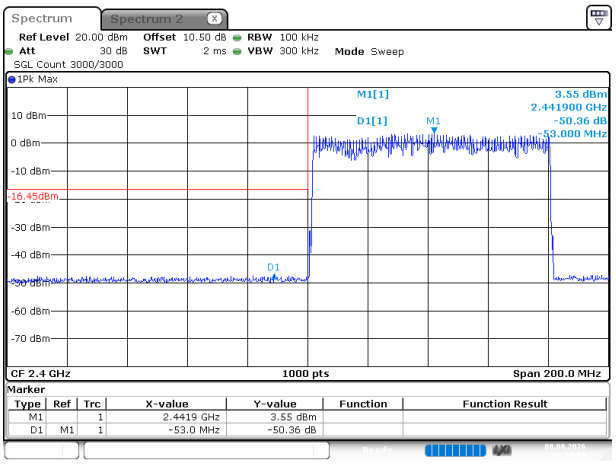
ProjectNo.:2601V68095E-RF Tester:Barry Feng
Date: 8.AUG.2026 20:35:12

2DH1_High



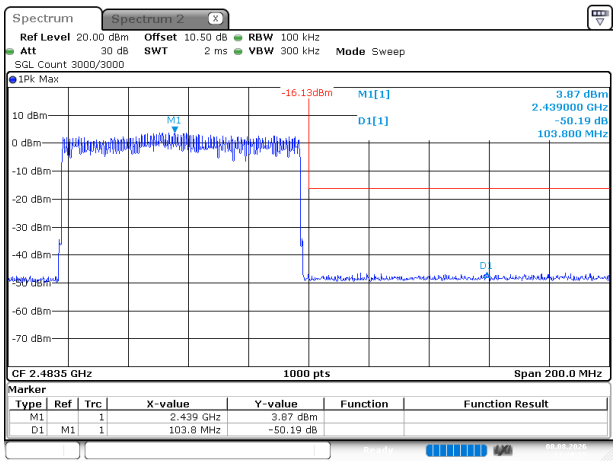
ProjectNo.:2601V68095E-RF Tester:Barry Feng
Date: 8.AUG.2026 20:39:23

2DH1_Hopping_Lower



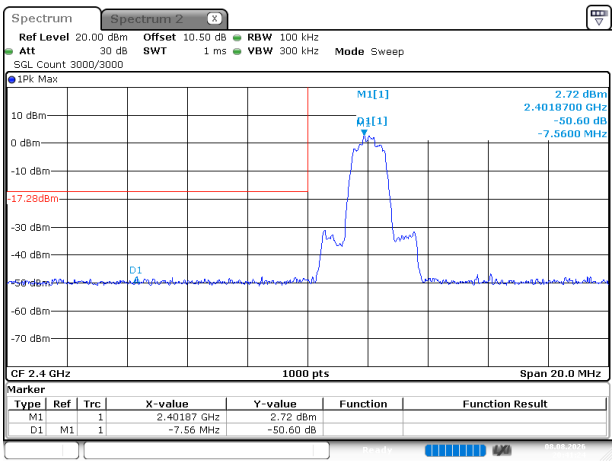
ProjectNo.:2601V68095E-RF Tester:Barry Feng
Date: 8.AUG.2026 21:29:09

2DH1_Hopping_Upper



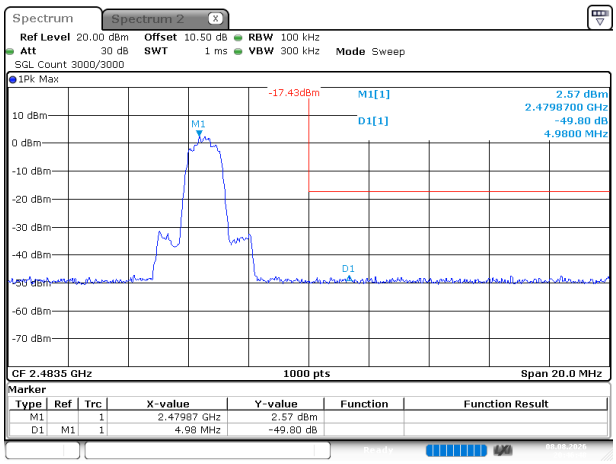
ProjectNo.:2601V68095E-RF Tester:Barry Feng
Date: 8.AUG.2026 21:29:36

3DH1_Low



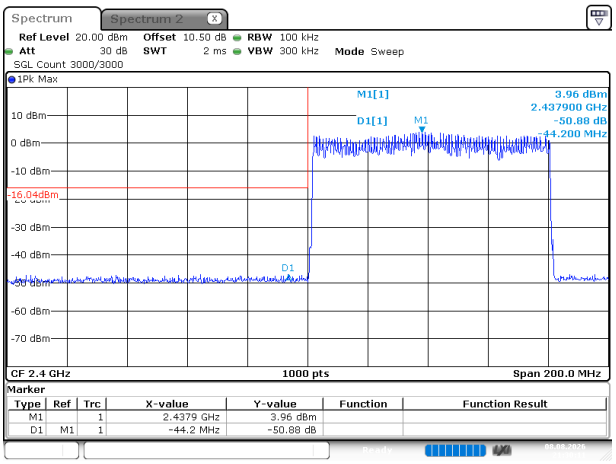
ProjectNo.:2601V68095E-RF Tester:Barry Feng
Date: 8.AUG.2026 20:41:25

3DH1_High



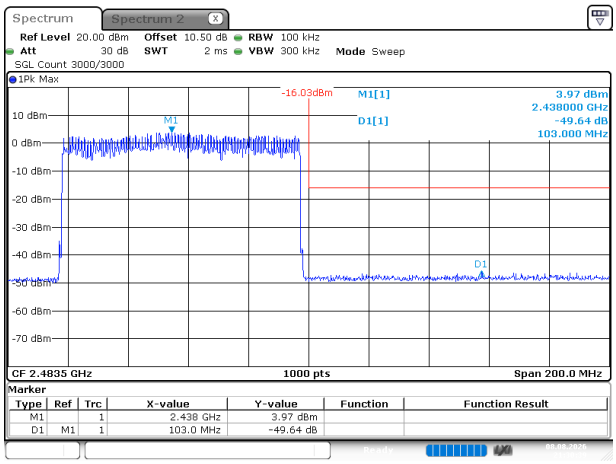
ProjectNo.:2601V68095E-RF Tester:Barry Feng
Date: 8.AUG.2026 20:46:48

3DH1_Hopping_Lower



ProjectNo.:2601V68095E-RF Tester:Barry Feng
Date: 8.AUG.2026 21:30:12

3DH1_Hopping_Upper



ProjectNo.:2601V68095E-RF Tester:Barry Feng
Date: 8.AUG.2026 21:30:40

Time of Occupancy (dwell time)

Test Information:

Sample No.:	3PF5-1	Test Date:	2026/08/08
Test Site:	RF	Test Mode:	Transmitting
Tester:	Barry Feng	Test Result:	Pass

Environmental Conditions:

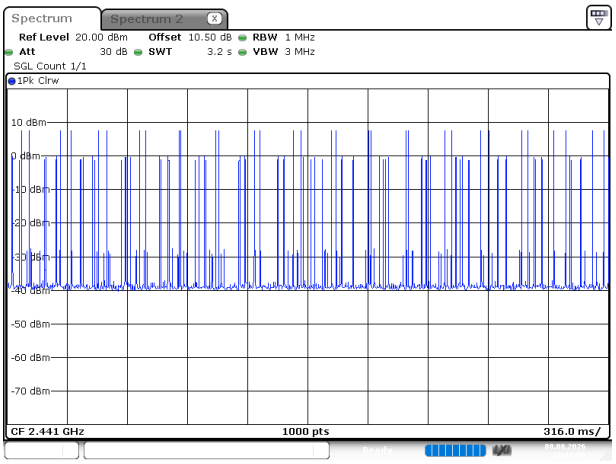
Temperature: (°C)	25.6	Relative Humidity: (%)	56	ATM Pressure: (kPa)	100.3

Test Data:

Test Mode	Channel	BurstWidth (ms)	TotalHops (Num)	Result (s)	Limit (s)	Verdict
DH1	Hopping Channel	0.413	320	0.132	≤ 0.4	Pass
DH3	Hopping Channel	1.676	160	0.268	≤ 0.4	Pass
DH5	Hopping Channel	2.928	120	0.351	≤ 0.4	Pass
2DH1	Hopping Channel	0.417	310	0.129	≤ 0.4	Pass
2DH3	Hopping Channel	1.676	160	0.268	≤ 0.4	Pass
2DH5	Hopping Channel	2.928	130	0.381	≤ 0.4	Pass
3DH1	Hopping Channel	0.416	320	0.133	≤ 0.4	Pass
3DH3	Hopping Channel	1.676	150	0.251	≤ 0.4	Pass
3DH5	Hopping Channel	**2.933**	110	0.323	≤ 0.4	Pass

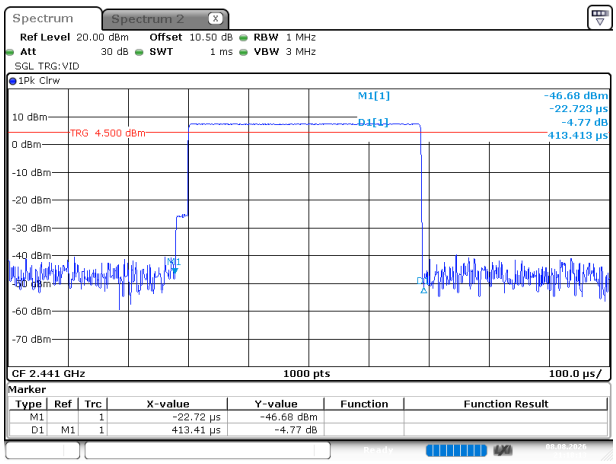
Note 1: A period time = 0.4*79 = 31.6(S), Result = BurstWidth * Totalhops
Note 2: Totalhops = Hopping Number in 3.16s*10
Note 3: Hopping Number in 3.16s = Total of highest signals in 3.16s(Second high signals were other channel)

DH1_Hopping



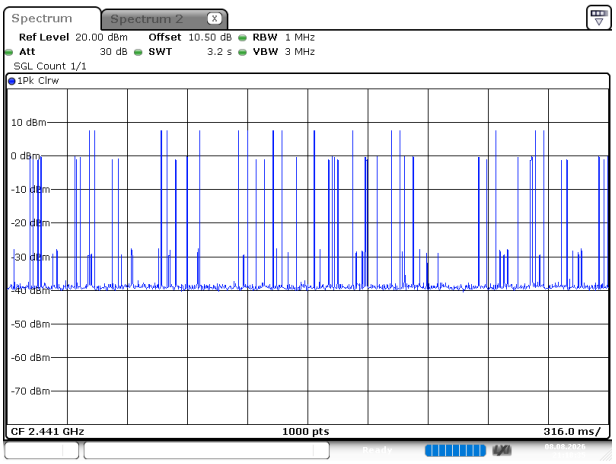
ProjectNo.:2601V68095E-RF Tester:Barry Feng
Date: 8.AUG.2026 21:17:56

DH1_Hopping



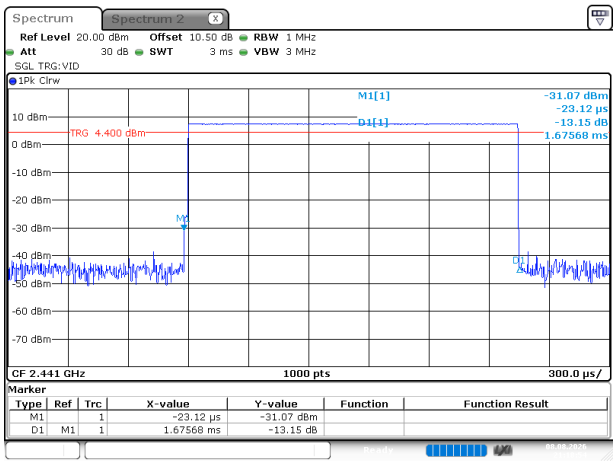
ProjectNo.:2601V68095E-RF Tester:Barry Feng
Date: 8.AUG.2026 21:18:13

DH3_Hopping



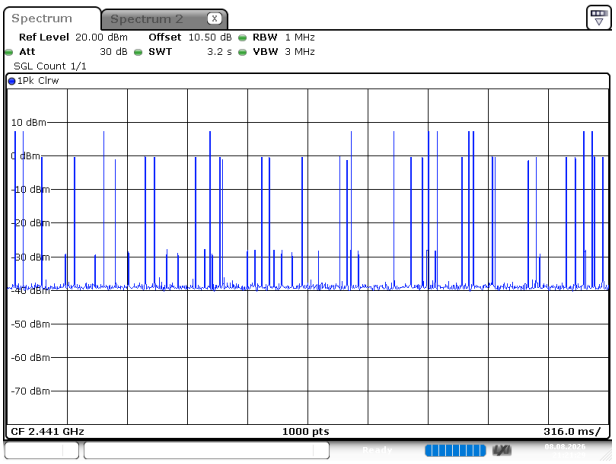
ProjectNo.:2601V68095E-RF Tester:Barry Feng
Date: 8.AUG.2026 21:18:36

DH3_Hopping



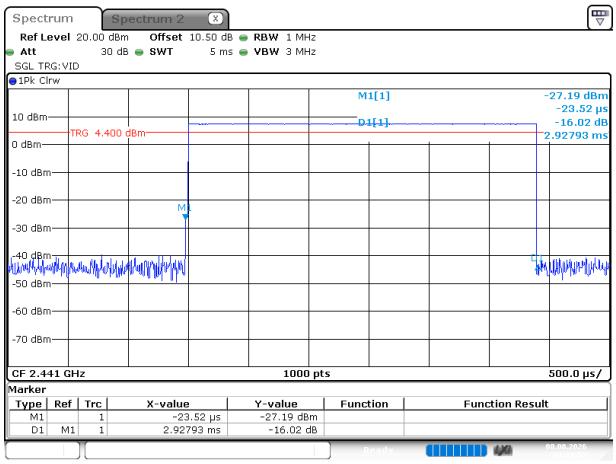
ProjectNo.:2601V68095E-RF Tester:Barry Feng
Date: 8.AUG.2026 21:18:55

DH5_Hopping



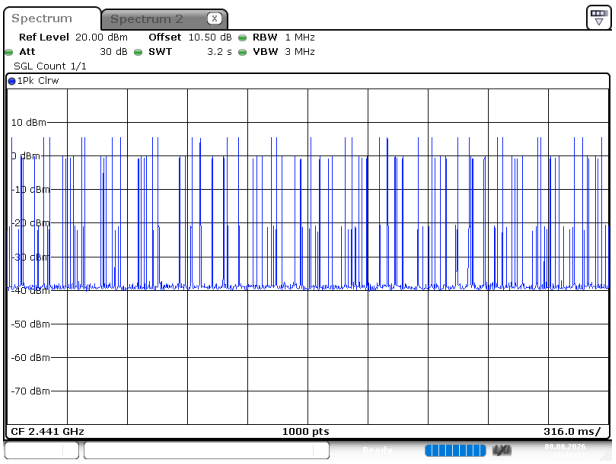
ProjectNo.:2601V68095E-RF Tester:Barry Feng
Date: 8.AUG.2026 21:21:30

DH5_Hopping



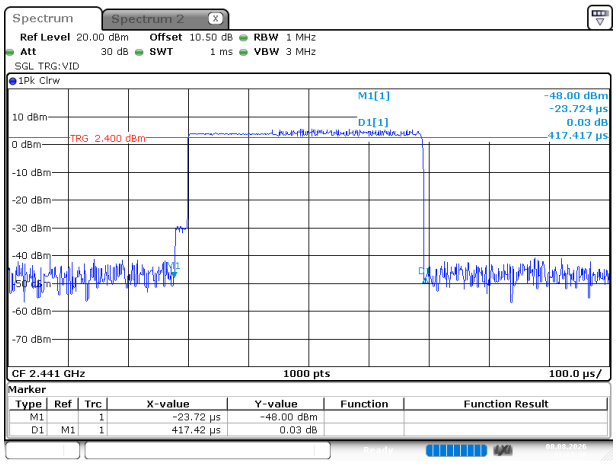
ProjectNo.:2601V68095E-RF Tester:Barry Feng
Date: 8.AUG.2026 21:21:52

2DH1_Hopping



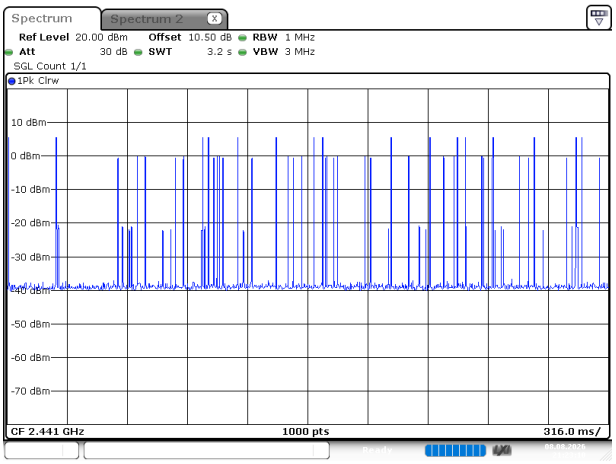
ProjectNo.:2601V68095E-RF Tester:Barry Feng
Date: 8.AUG.2026 21:22:22

2DH1_Hopping



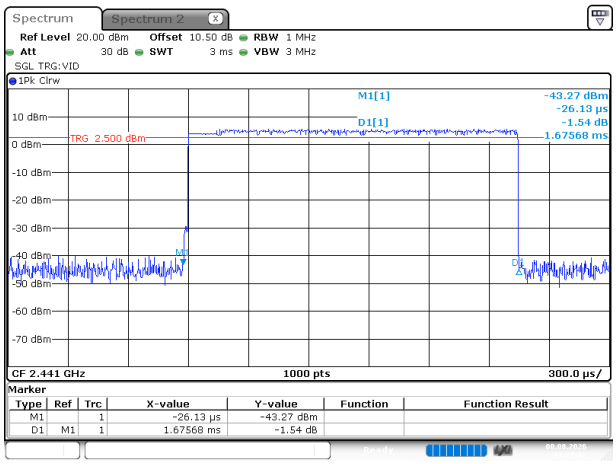
ProjectNo.:2601V68095E-RF Tester:Barry Feng
Date: 8.AUG.2026 21:22:40

2DH3_Hopping



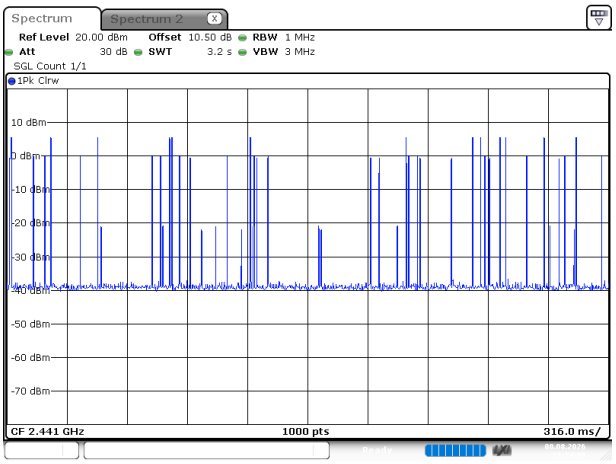
ProjectNo.:2601V68095E-RF Tester:Barry Feng
Date: 8.AUG.2026 21:23:11

2DH3_Hopping



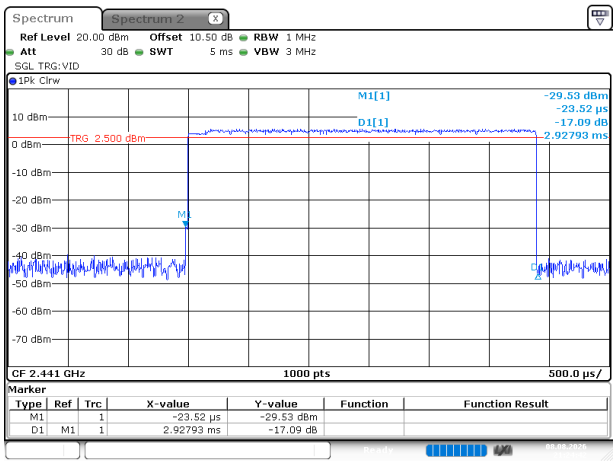
ProjectNo.:2601V68095E-RF Tester:Barry Feng
Date: 8.AUG.2026 21:23:32

2DH5_Hopping



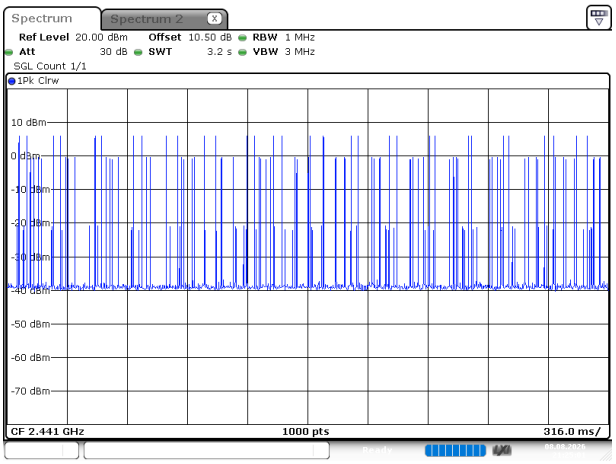
ProjectNo.:2601V68095E-RF Tester:Barry Feng
Date: 8.AUG.2026 21:24:19

2DH5_Hopping



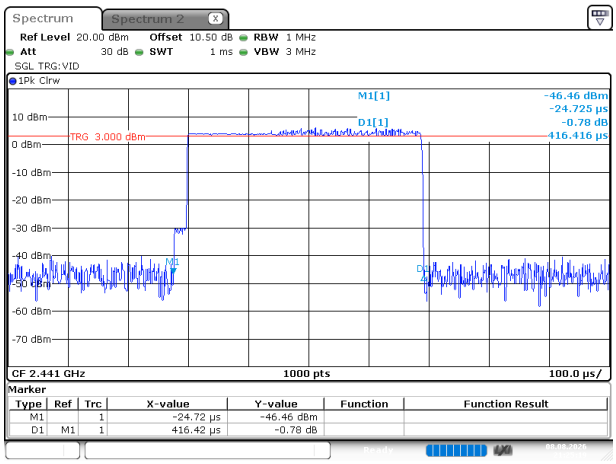
ProjectNo.:2601V68095E-RF Tester:Barry Feng
Date: 8.AUG.2026 21:24:43

3DH1_Hopping



ProjectNo.:2601V68095E-RF Tester:Barry Feng
Date: 8.AUG.2026 21:25:01

3DH1_Hopping



ProjectNo.:2601V68095E-RF Tester:Barry Feng
Date: 8.AUG.2026 21:25:20

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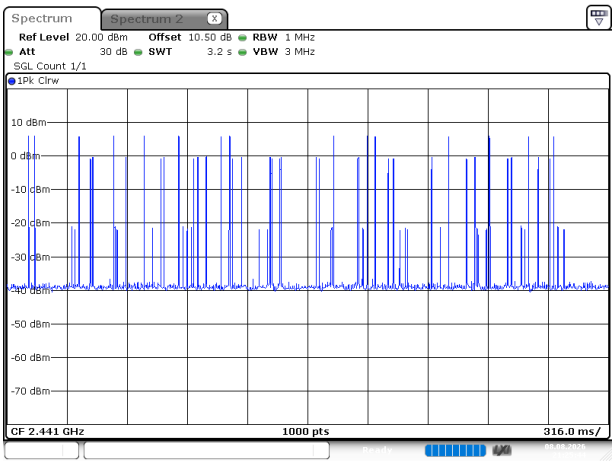
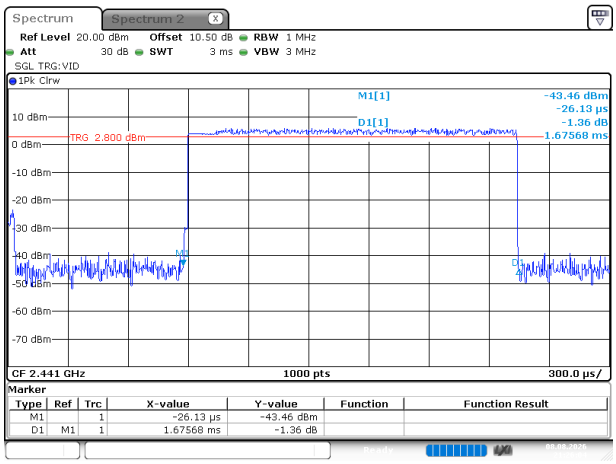


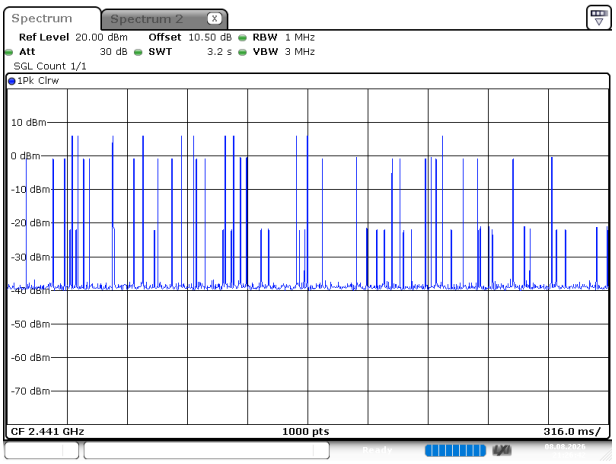
ProjectNo.:2601V68095E-RF Tester:Barry Feng
Date: 8.AUG.2026 21:25:44

3DH3_Hopping



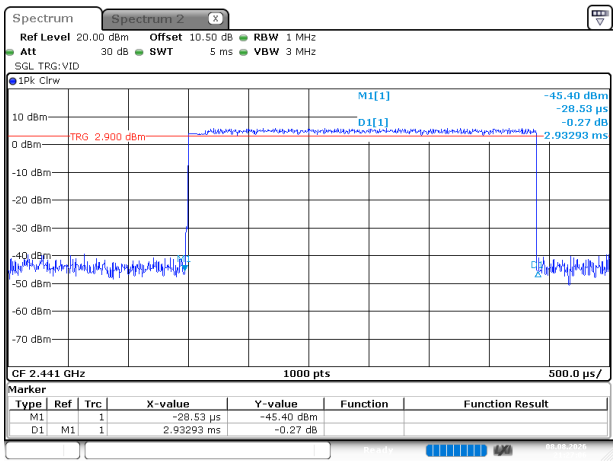
ProjectNo.:2601V68095E-RF Tester:Barry Feng
Date: 8.AUG.2026 21:26:05

3DH5_Hopping



ProjectNo.:2601V68095E-RF Tester:Barry Feng
Date: 8.AUG.2026 21:26:42

3DH5_Hopping



ProjectNo.:2601V68095E-RF Tester:Barry Feng
Date: 8.AUG.2026 21:27:06

Conducted Spurious Emission

Test Information:

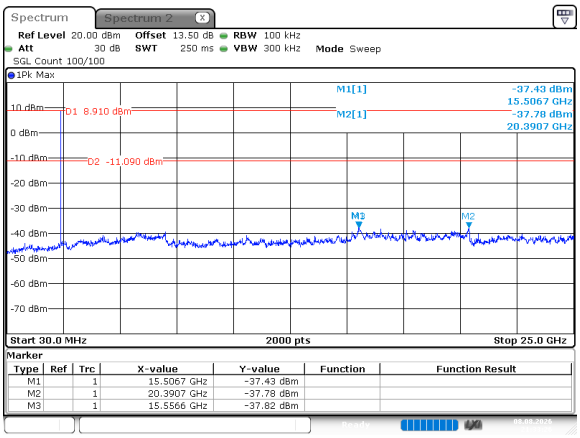
Sample No.:	3PF5-1	Test Date:	2026/08/08
Test Site:	RF	Test Mode:	Transmitting
Tester:	Barry Feng	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	25.6	Relative Humidity: (%)	56	ATM Pressure: (kPa)	100.3

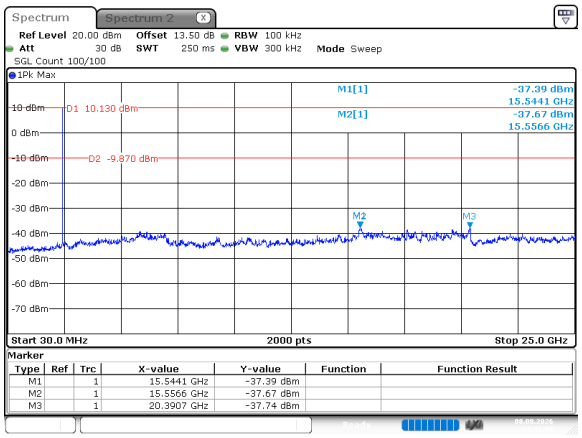
Test Data:

DH1_Low



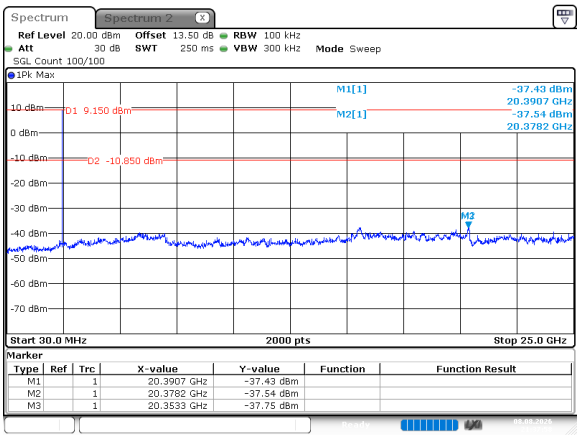
ProjectNo.:2601V68095E-RF Tester:Barry Feng
Date: 8.AUG.2026 21:33:26

DH1_Middle



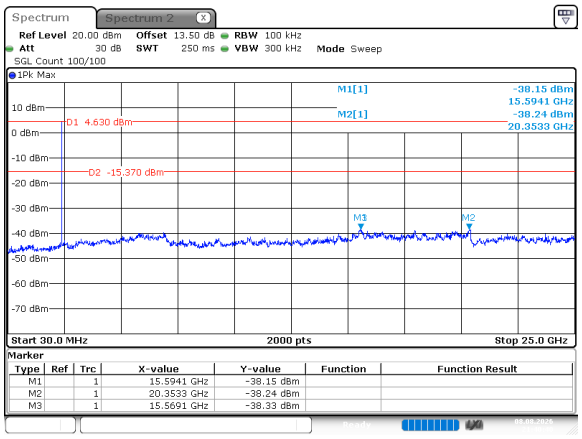
ProjectNo.:2601V68095E-RF Tester:Barry Feng
Date: 8.AUG.2026 21:35:51

DH1_High



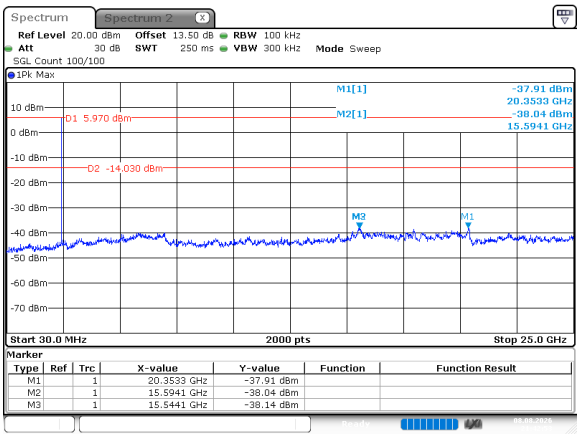
ProjectNo.:2601V68095E-RF Tester:Barry Feng
Date: 8.AUG.2026 21:37:58

2DH1_Low



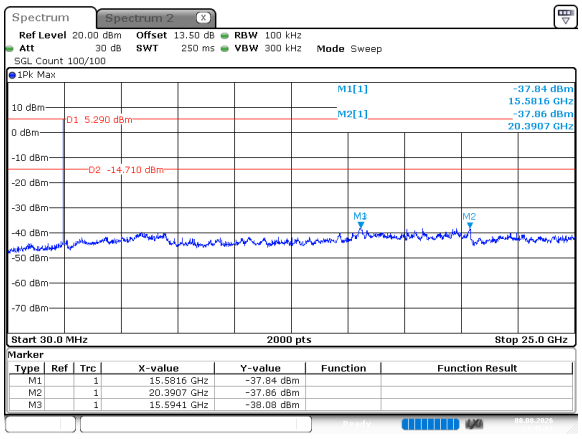
ProjectNo.:2601V68095E-RF Tester:Barry Feng
Date: 8.AUG.2026 21:40:41

2DH1_Middle



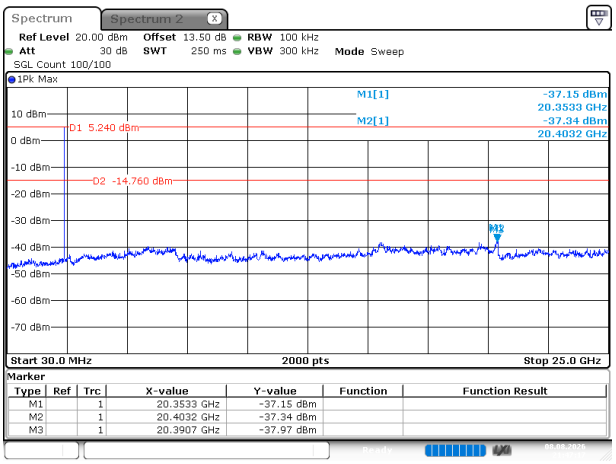
ProjectNo.:2601V68095E-RF Tester:Barry Feng
Date: 8.AUG.2026 21:42:54

2DH1_High



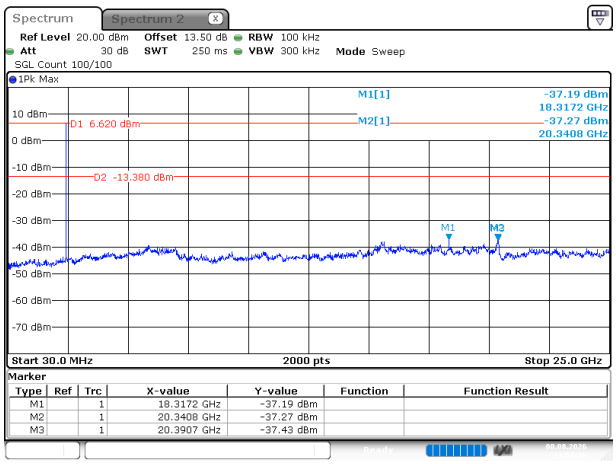
ProjectNo.:2601V68095E-RF Tester:Barry Feng
Date: 8.AUG.2026 21:45:01

3DH1_Low



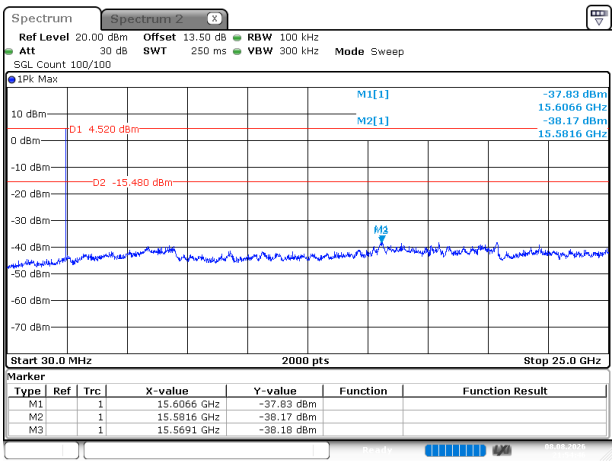
ProjectNo.:2601V68095E-RF Tester:Barry Feng
Date: 8.AUG.2026 21:47:18

3DH1_Middle



ProjectNo.:2601V68095E-RF Tester:Barry Feng
Date: 8.AUG.2026 21:52:36

3DH1_High



ProjectNo.:2601V68095E-RF Tester:Barry Feng
Date: 8.AUG.2026 21:54:47

EUT PHOTOGRAPHS

Please refer to the attachment 2601V68095E-RF-EXP External photo and 2601V68095E-RF-INP Internal photo.

TEST SETUP PHOTOGRAPHS

Please refer to the attachment 2601V68095E-RF-TSPA Test Setup photo.

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