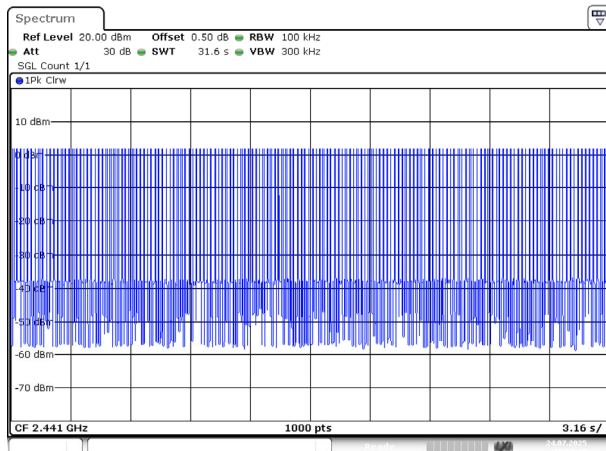
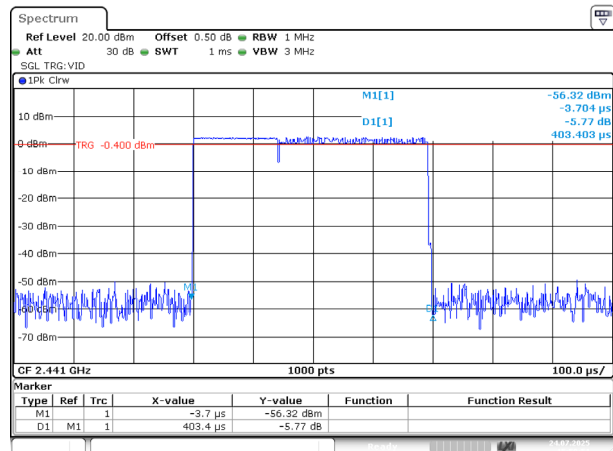


2DH1_Hopping



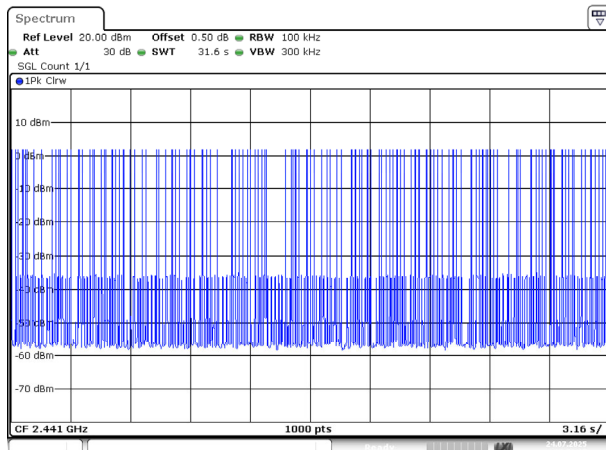
ProjectNo.:2507V00610E-RF Tester:Braylon Ma
Date: 24.JUL.2025 15:58:19

2DH1_Hopping



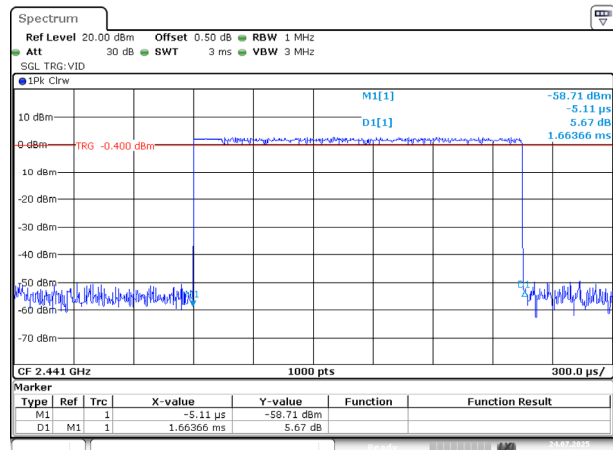
ProjectNo.:2507V00610E-RF Tester:Braylon Ma
Date: 24.JUL.2025 15:58:51

2DH3_Hopping



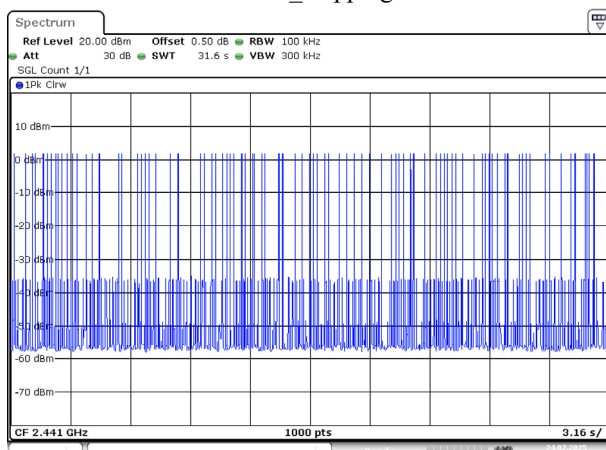
ProjectNo.:2507V00610E-RF Tester:Braylon Ma
Date: 24.JUL.2025 15:59:37

2DH3_Hopping



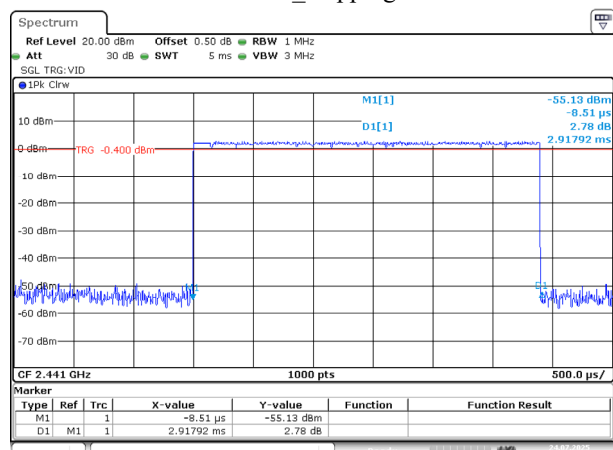
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Date: 24.JUL.2025 16:00:10

2DH5_Hopping



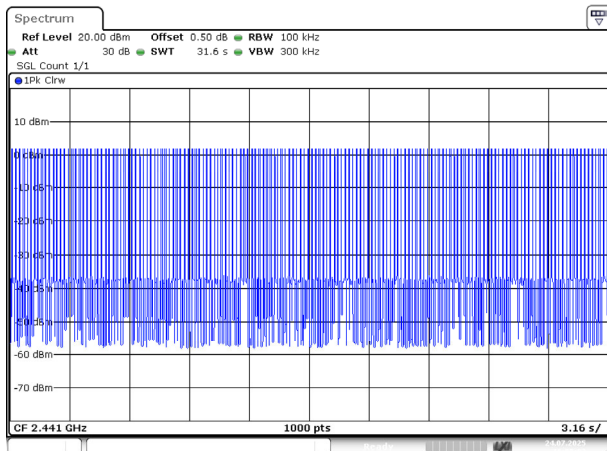
ProjectNo.:2507V00610E-RF Tester:Braylon Ma
Date: 24.JUL.2025 16:03:44

2DH5_Hopping



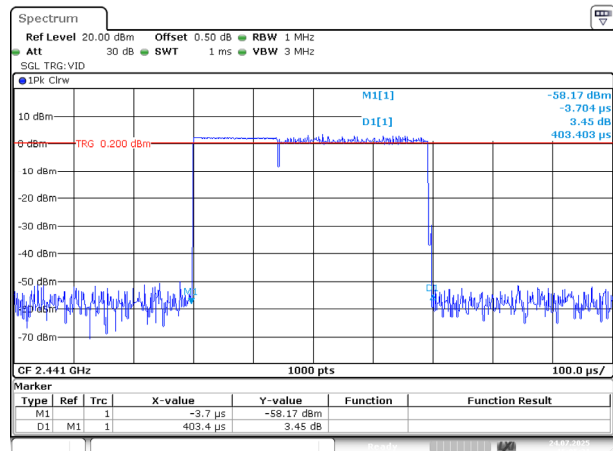
ProjectNo.:2507V00610E-RF Tester:Braylon Ma
Date: 24.JUL.2025 16:04:17

3DH1_Hopping



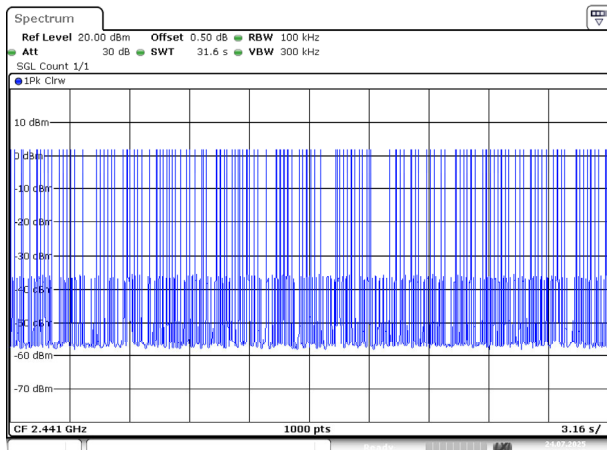
ProjectNo.:2507V00610E-RF Tester:Braylon Ma
Date: 24.JUL.2025 16:05:03

3DH1_Hopping



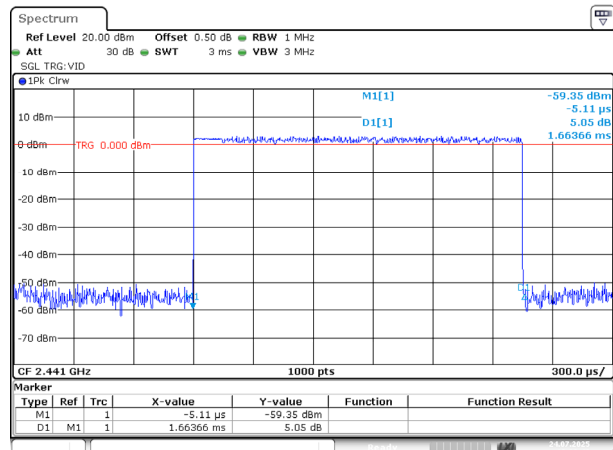
ProjectNo.:2507V00610E-RF Tester:Braylon Ma
Date: 24.JUL.2025 16:05:13

3DH3_Hopping



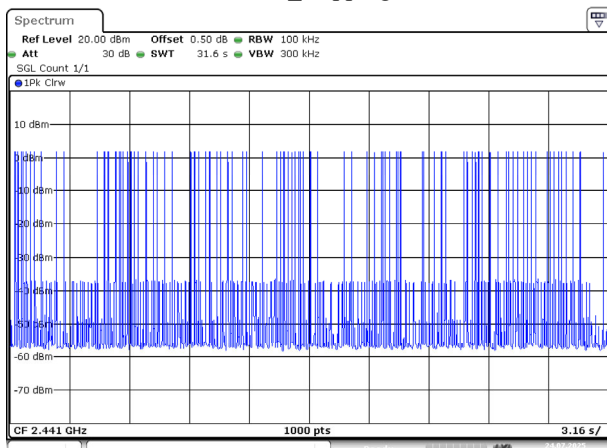
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Date: 24.JUL.2025 16:06:15

3DH3_Hopping



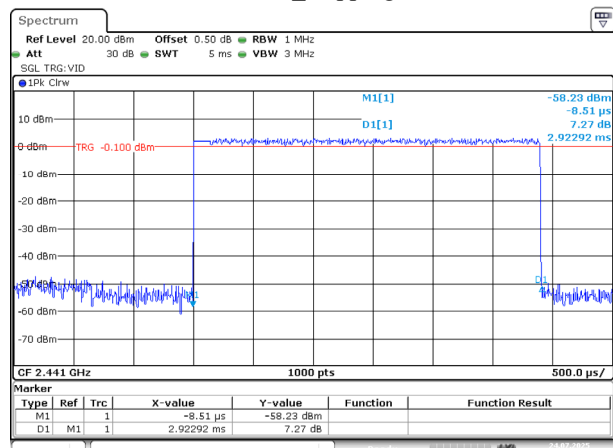
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Date: 24.JUL.2025 16:06:42

3DH5_Hopping



ProjectNo.:2507V00610E-RF Tester:Braylon Ma
Date: 24.JUL.2025 16:10:03

3DH5_Hopping



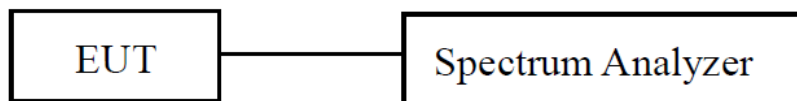
ProjectNo.:2507V00610E-RF Tester:Braylon Ma
Date: 24.JUL.2025 16:10:30

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

Applicable Standard

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

EUT Setup



Test Procedure

According to ANSI C63.10-2020 Section 7.8.5

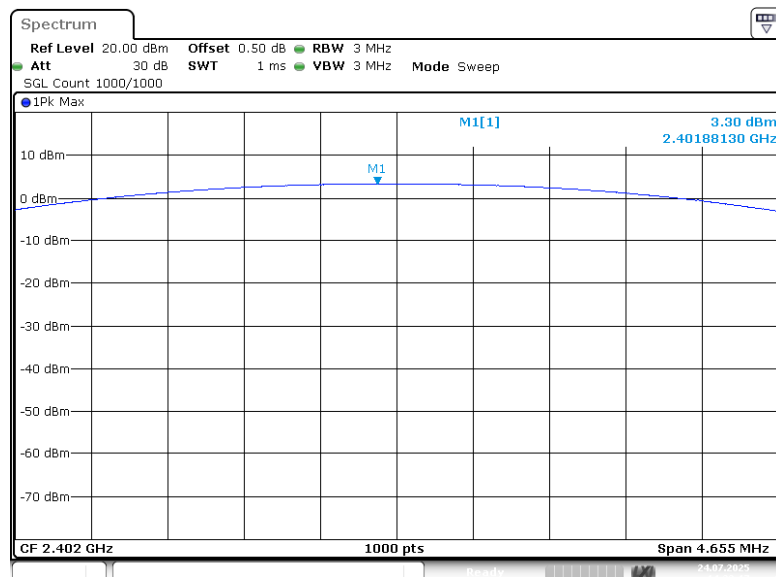
This is an RF-conducted test to evaluate maximum peak output power. Use a direct connection between the antenna port of the unlicensed wireless device and the spectrum analyzer, through suitable attenuation. Frequency hopping shall be disabled for this test. Use the following spectrum analyzer setting:

- 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 plot of the test results and setup description shall be included in the test report.

Test Data

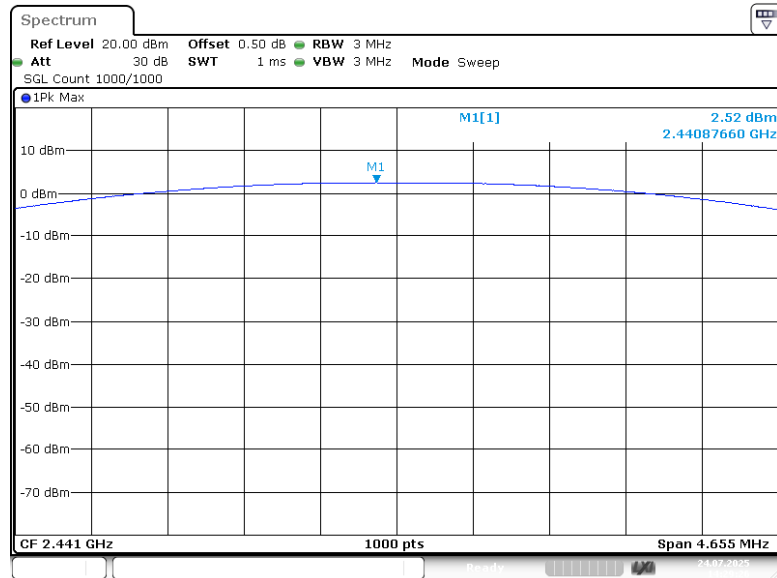
Test Mode:	Transmitting	Test Engineer:	Braylon Ma
Test Date:	2025-07-24	Environment:	Temp.: 24.5°C Humi.: 62% Atm.: 100.2kPa
Mode	Frequency (MHz)	Peak Conducted Output Power (dBm)	Limit (dBm)
BDR (GFSK)	2402	3.30	21
	2441	2.52	21
	2480	1.49	21
EDR ($\pi/4$-DQPSK)	2402	3.90	21
	2441	3.14	21
	2480	2.17	21
EDR (8DPSK)	2402	4.54	21
	2441	3.79	21
	2480	2.82	21

Please refer to below plots:

BDR (GFSK): 2402MHz

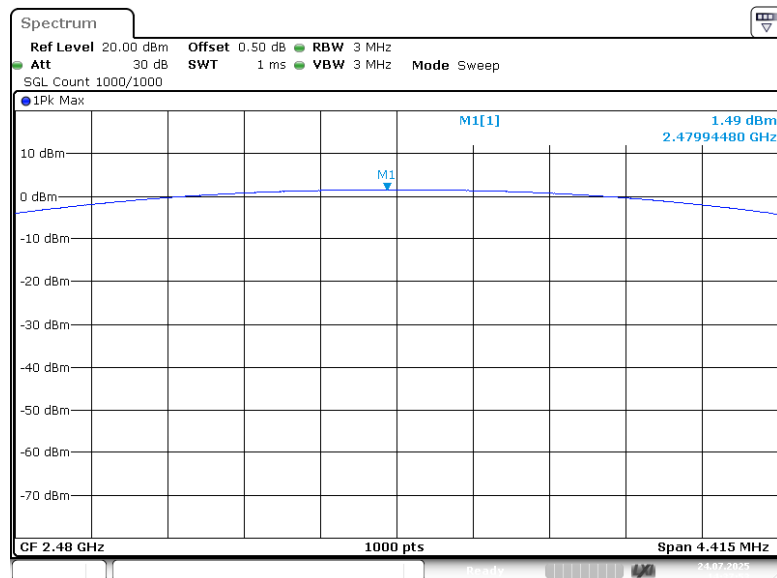
ProjectNo.:2507V00610E-RF Tester:Braylon Ma
Date: 24.JUL.2025 14:22:17

BDR (GFSK): 2441MHz



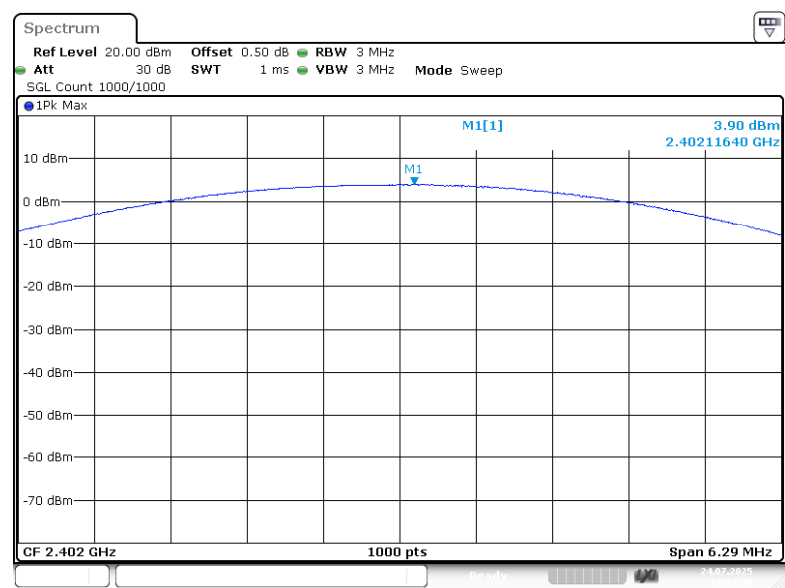
ProjectNo.:2507V00610E-RF Tester:Braylon Ma
 Date: 24.JUL.2025 14:29:26

BDR (GFSK): 2480MHz



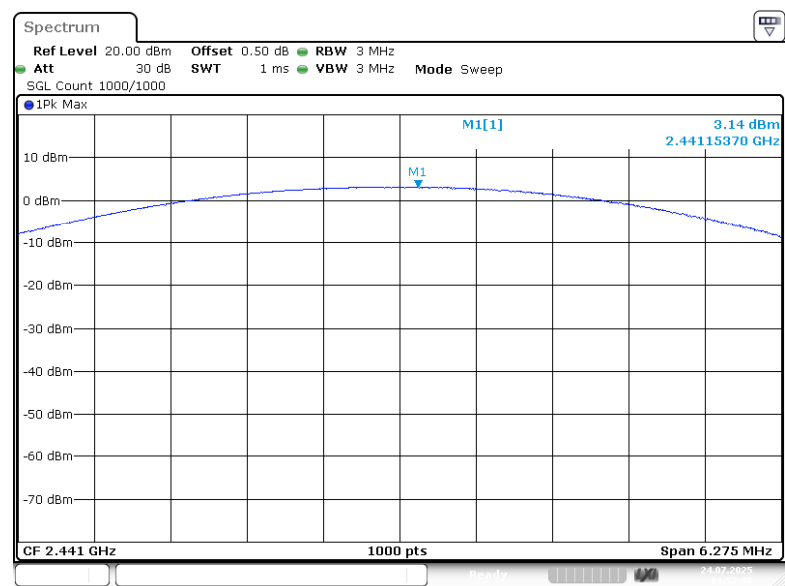
ProjectNo.:2507V00610E-RF Tester:Braylon Ma
 Date: 24.JUL.2025 14:37:53

EDR($\pi/4$ -DQPSK): 2402MHz



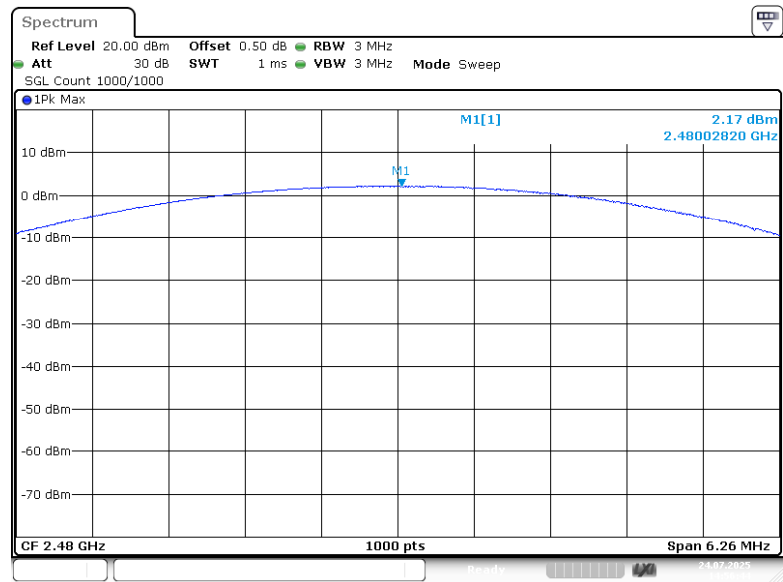
ProjectNo.:2507V00610E-RF Tester:Braylon Ma
Date: 24.JUL.2025 14:44:38

EDR($\pi/4$ -DQPSK): 2441MHz



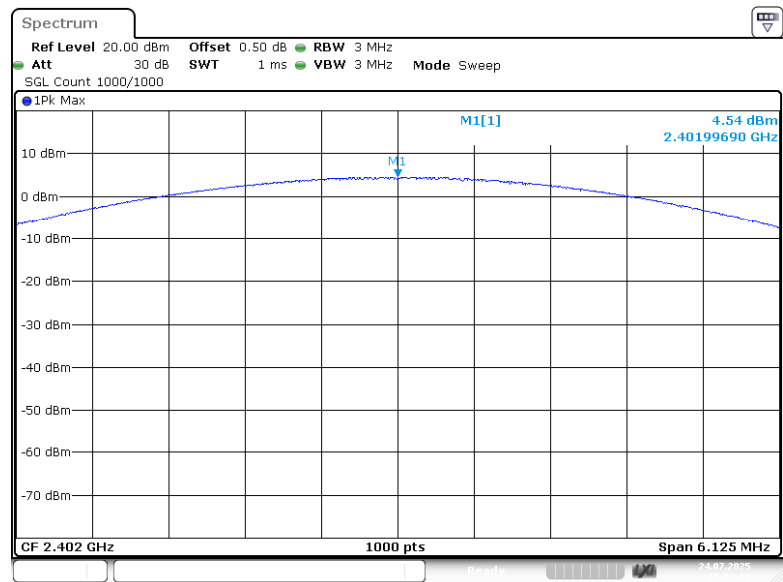
ProjectNo.:2507V00610E-RF Tester:Braylon Ma
Date: 24.JUL.2025 14:52:07

EDR($\pi/4$ -DQPSK): 2480MHz



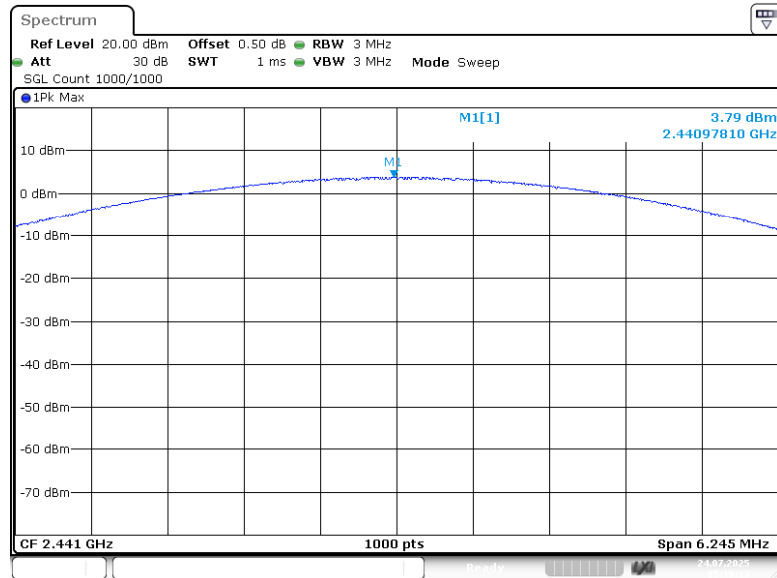
ProjectNo.:2507V00610E-RF Tester:Braylon Ma
Date: 24.JUL.2025 14:56:44

EDR(8DPSK): 2402MHz



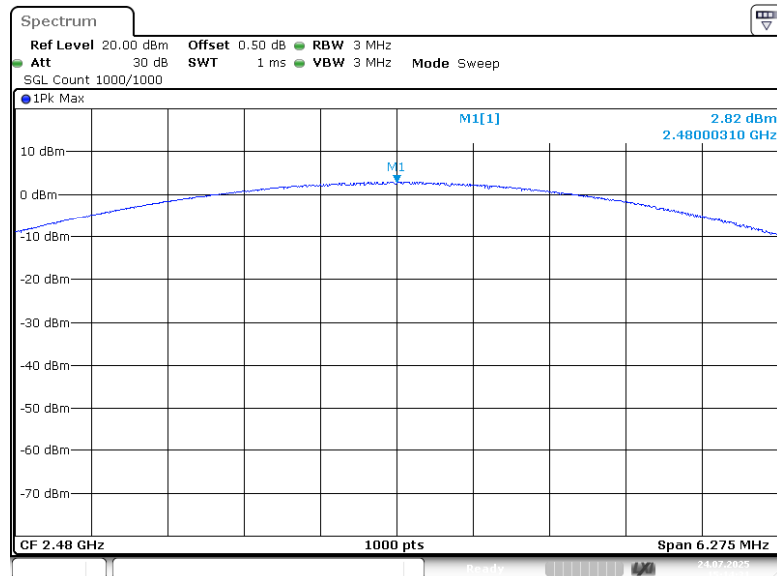
ProjectNo.:2507V00610E-RF Tester:Braylon Ma
Date: 24.JUL.2025 15:03:08

EDR(8DPSK): 2441MHz



ProjectNo.:2507V00610E-RF Tester:Braylon Ma
 Date: 24.JUL.2025 15:10:14

EDR(8DPSK): 2480MHz



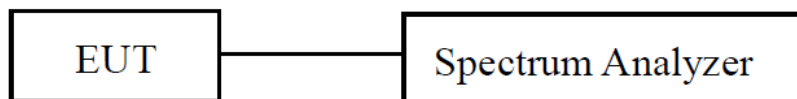
ProjectNo.:2507V00610E-RF Tester:Braylon Ma
 Date: 24.JUL.2025 15:14:30

FCC §15.247(d) - BAND EDGES TESTING

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)).

EUT Setup



Test Procedure

According to ANSI C63.10-2020 Section 7.8.7.2 & Claus 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 $[10 \log (\text{OBW/RBW})]$ 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.

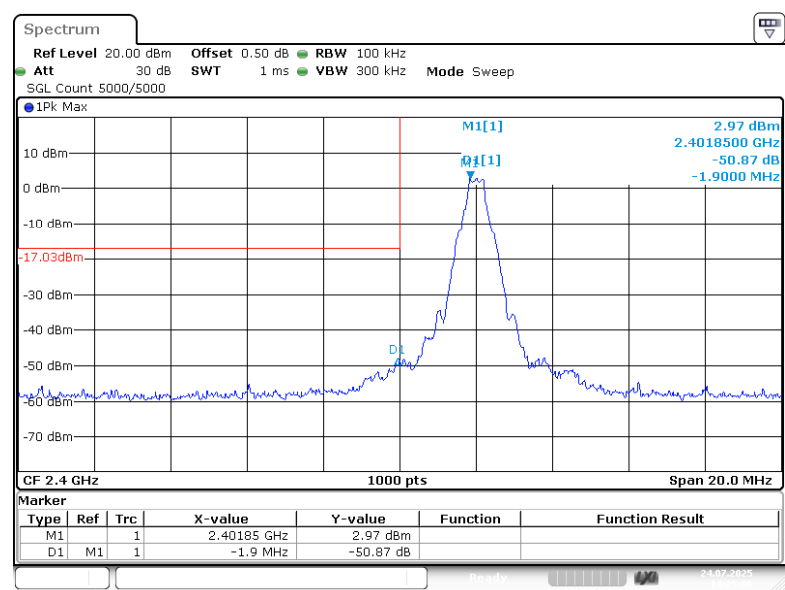
Test Data

Test Mode:	Transmitting	Test Engineer:	Braylon Ma
Test Date:	2025-07-24	Environment:	Temp.: 24.5°C Humi.: 62% Atm.: 100.2kPa

Please refer to the below plots:

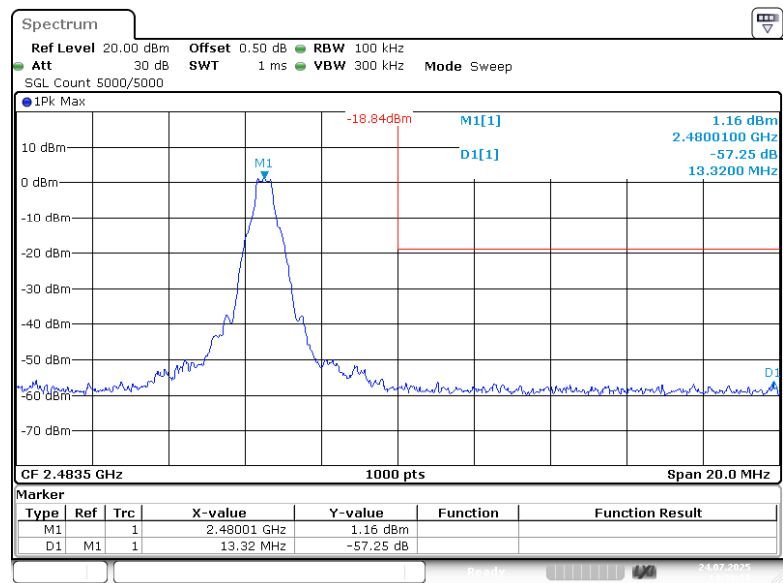
Band Edge

BDR (GFSK): Left Side



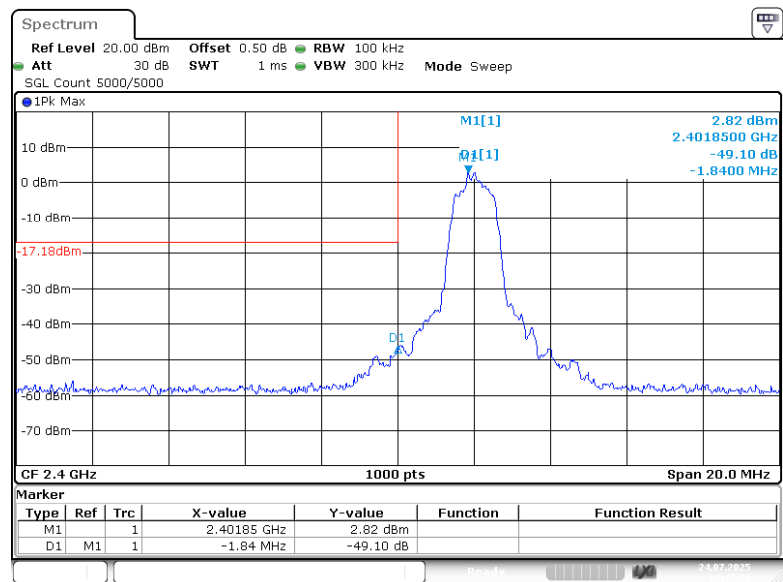
ProjectNo.:2507V00610E-RF Tester:Braylon Ma
Date: 24.JUL.2025 14:25:07

BDR (GFSK): Right Side



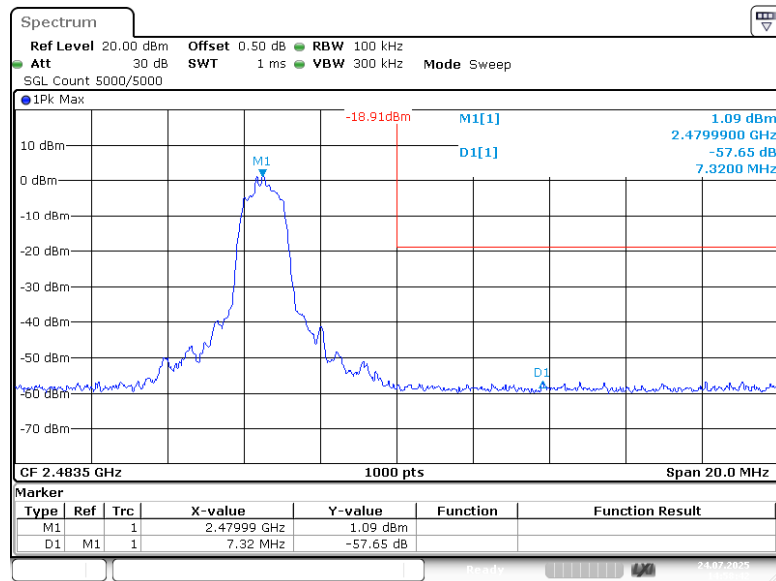
ProjectNo.:2507V00610E-RF Tester:Braylon Ma
Date: 24.JUL.2025 14:39:50

EDR ($\pi/4$ -DQPSK): Left Side

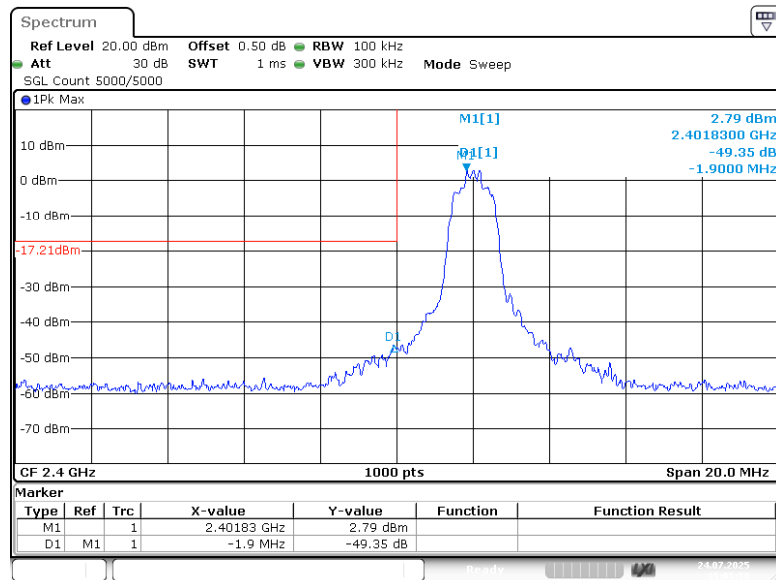


ProjectNo.:2507V00610E-RF Tester:Braylon Ma
Date: 24.JUL.2025 14:47:29

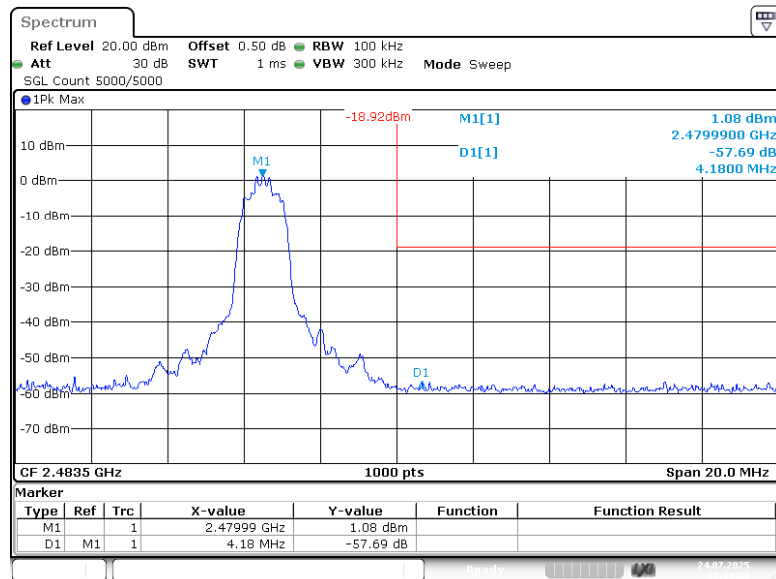
EDR ($\pi/4$ -DQPSK): Right Side



EDR (8DPSK): Left Side

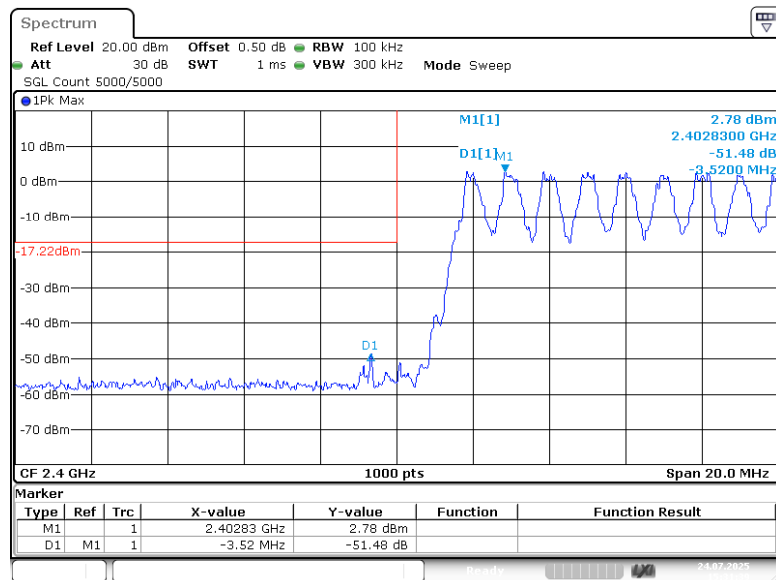


EDR (8DPSK): Right Side



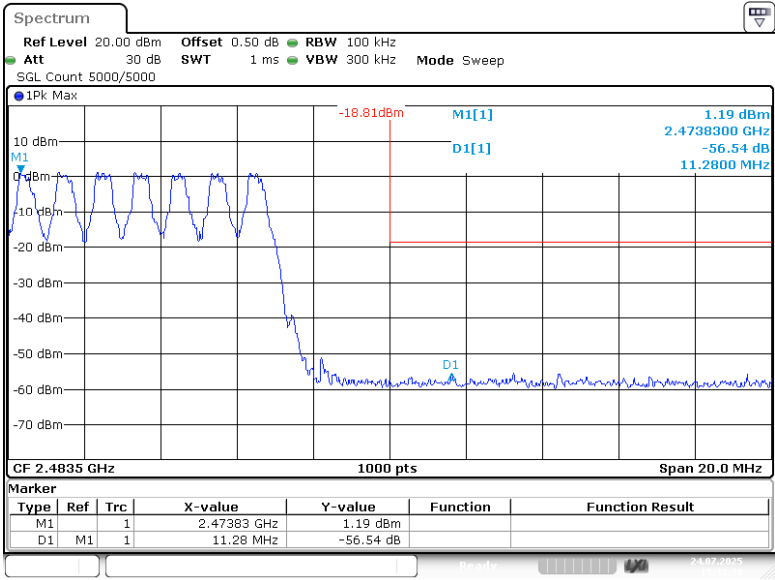
ProjectNo.:2507V00610E-RF Tester:Braylon Ma
Date: 24.JUL.2025 15:16:27

BDR (GFSK): Left Side - Hopping



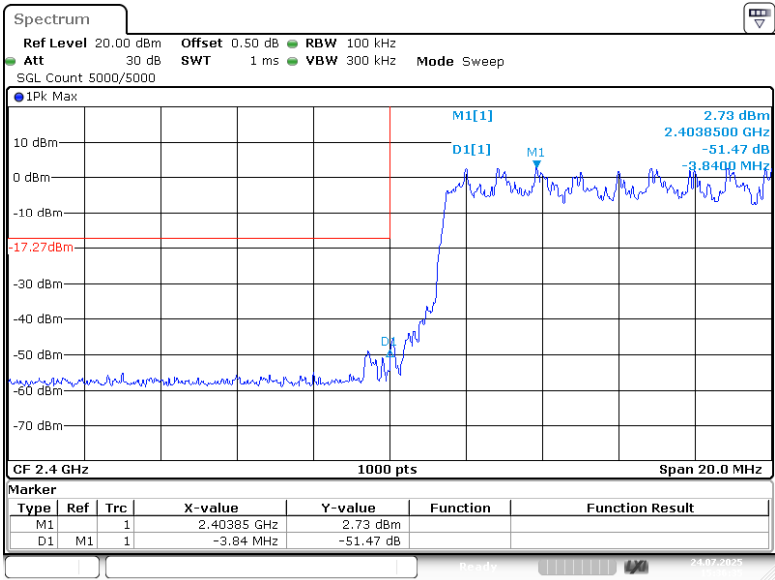
ProjectNo.:2507V00610E-RF Tester:Braylon Ma
Date: 24.JUL.2025 15:31:38

BDR (GFSK): Right Side - Hopping

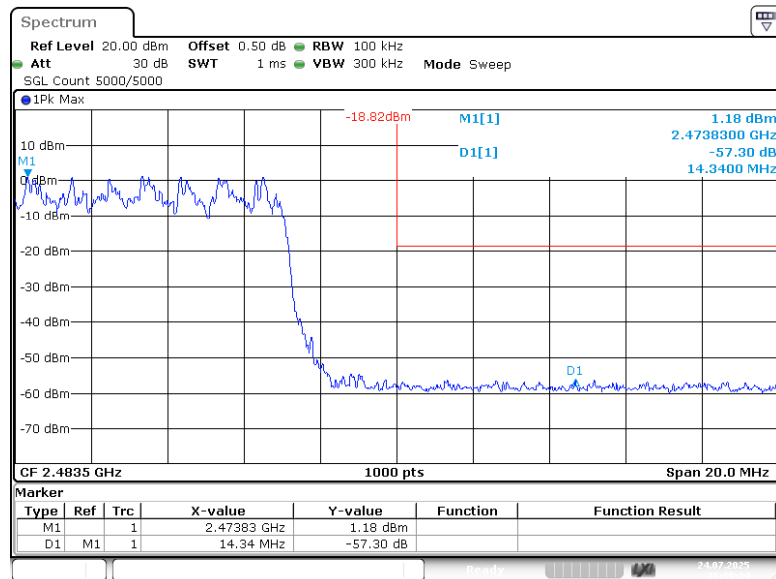


ProjectNo.:2507V00610E-RF Tester:Braylon Ma
Date: 24.JUL.2025 15:33:38

EDR ($\pi/4$ -DQPSK): Left Side - Hopping

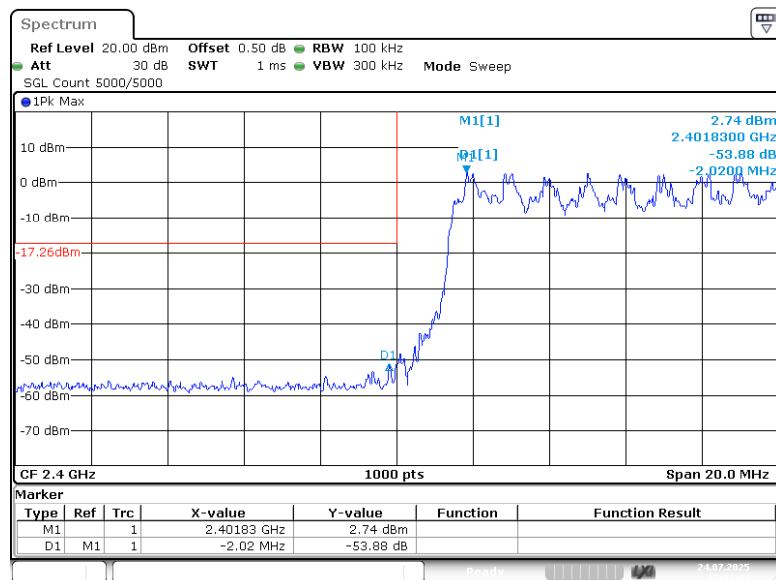


ProjectNo.:2507V00610E-RF Tester:Braylon Ma
Date: 24.JUL.2025 15:36:35

EDR ($\pi/4$ -DQPSK): Right Side - Hopping

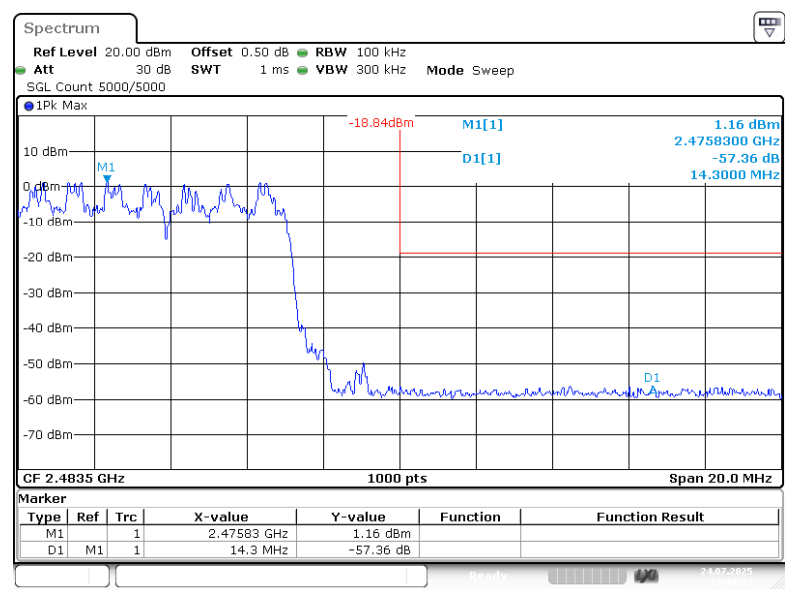
ProjectNo.:2507V00610E-RF Tester:Braylon Ma
Date: 24.JUL.2025 15:38:35

EDR (8DPSK): Left Side - Hopping



ProjectNo.:2507V00610E-RF Tester:Braylon Ma
Date: 24.JUL.2025 15:41:45

EDR (8DPSK): Right Side - Hopping



ProjectNo.:2507V00610E-RF Tester:Braylon Ma
Date: 24.JUL.2025 15:44:21

EUT PHOTOGRAPHS

Please refer to the attachment 2507V00610E-RF-EXP EUT EXTERNAL PHOTOGRAPHS and 2507V00610E-RF-INP EUT INTERNAL PHOTOGRAPHS.

TEST SETUP PHOTOGRAPHS

Please refer to the attachment 2507V00610E-RF-TSP TEST SETUP PHOTOGRAPHS.

Declarations

1. Bay Area Compliance Laboratories Corp. (Xiamen) is not responsible for authenticity of any information provided by the applicant. Information from the applicant that may affect test results are marked with an asterisk “★”.
2. Unless otherwise stated, the results shown in this test report refer only to the sample(s) tested.
3. Unless required by the rule provided by the applicant or product regulations, then decision rule in this report did not consider the uncertainty.
4. The extended uncertainty given in this report is obtained by combining the standard uncertainty times the coverage factor $k=2$ with the 95% confidence interval.
5. This report cannot be reproduced except in full, without prior written approval of Bay Area Compliance Laboratories Corp. (Xiamen).
6. 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.

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