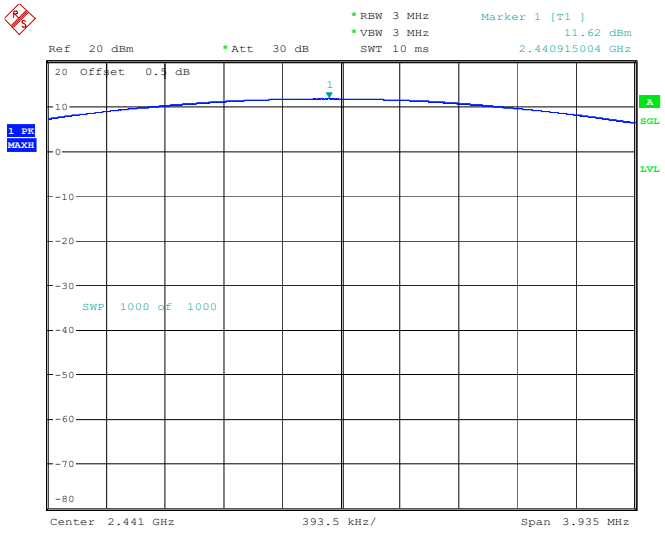
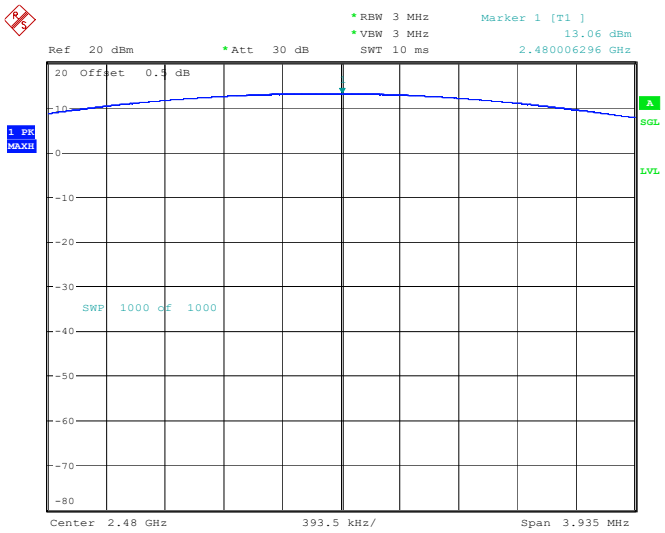
BDR(GFSK): 2441MHz



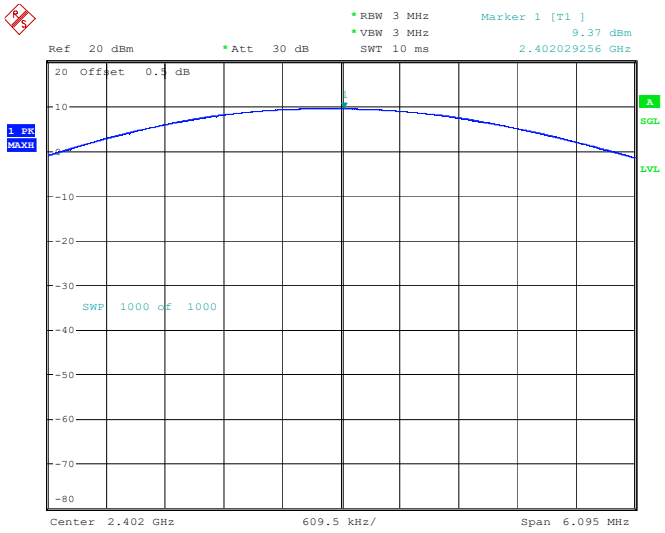
ProjectNo.:2407V20721E-RF Tester:Stein Peng
Date: 7.AUG.2024 13:29:16

BDR(GFSK): 2480MHz



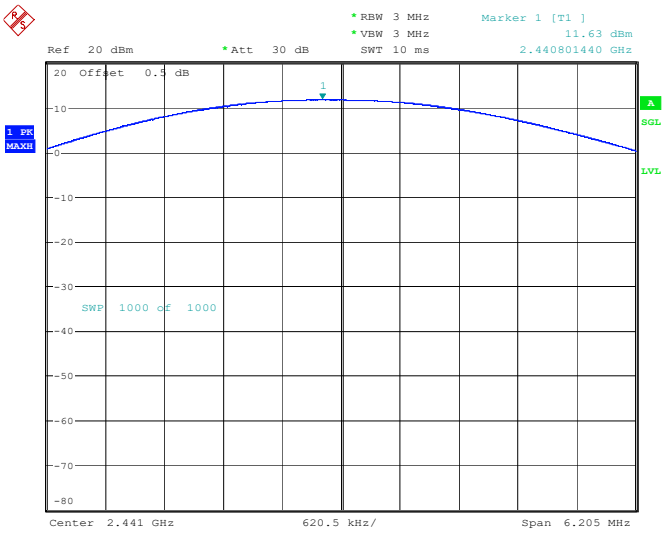
ProjectNo.:2407V20721E-RF Tester:Stein Peng
Date: 7.AUG.2024 13:31:55

EDR(π/4-DQPSK): 2402MHz



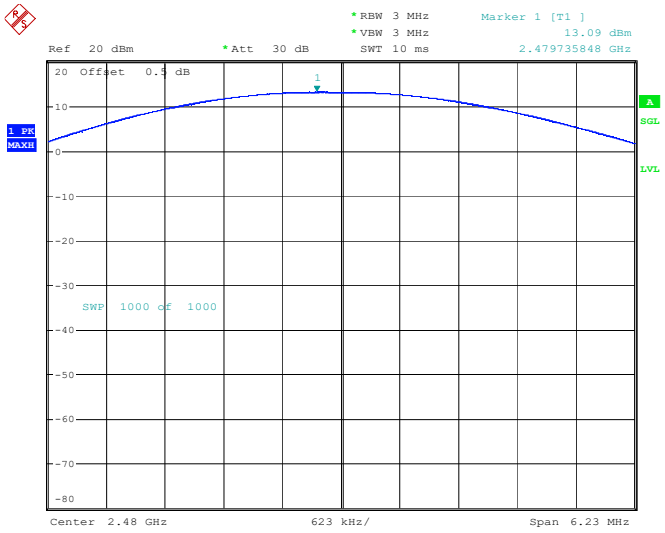
ProjectNo.:2407V20721E-RF Tester:Stein Peng
Date: 7.AUG.2024 13:35:37

EDR(π/4-DQPSK): 2441MHz



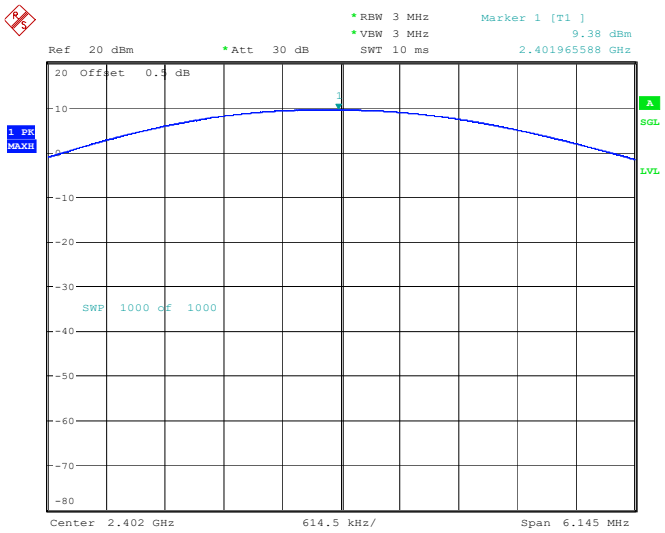
ProjectNo.:2407V20721E-RF Tester:Stein Peng
Date: 7.AUG.2024 13:36:40

EDR(π/4-DQPSK): 2480MHz



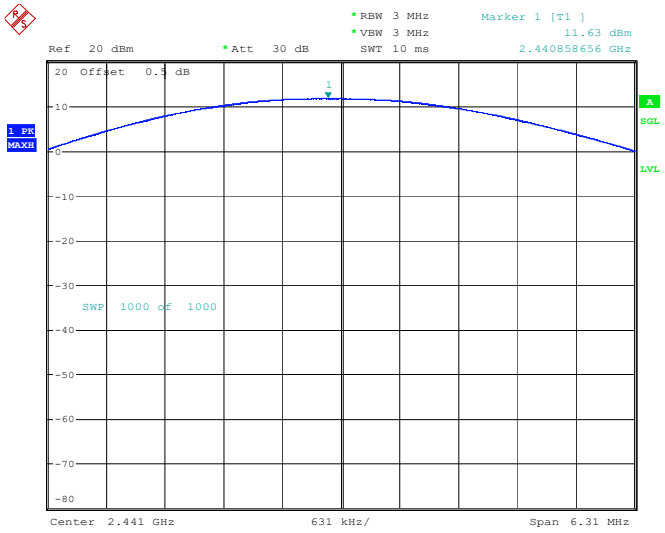
ProjectNo.:2407V20721E-RF Tester:Stein Peng
Date: 7.AUG.2024 13:37:49

EDR(8DPSK): 2402MHz



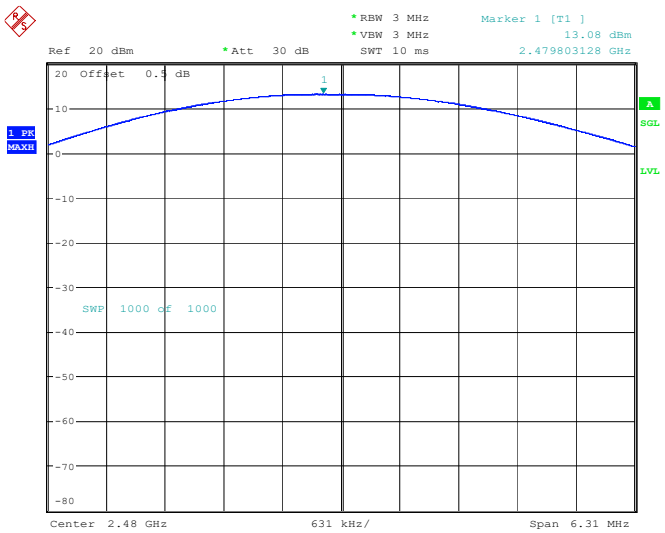
ProjectNo.:2407V20721E-RF Tester:Stein Peng
Date: 7.AUG.2024 13:40:15

EDR(8DPSK): 2441MHz



ProjectNo.:2407V20721E-RF Tester:Stein Peng
Date: 7.AUG.2024 13:41:19

EDR(8DPSK): 2480MHz



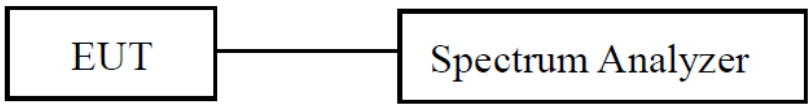
ProjectNo.:2407V20721E-RF Tester:Stein Peng
Date: 7.AUG.2024 13:42:21

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 C63.10-2013 Section 7.8.6

For band-edge measurements, use the band-edge procedure in 6.10. Band-edge measurements shall be tested both on single channels, and with the EUT hopping.
a) Set the center frequency and span to encompass frequency range to be measured.
b) Set the RBW = 100 kHz.
c) Set the VBW ≥ [3 × RBW].
d) Detector = peak.
e) Sweep time = auto couple.
f) Trace mode = max hold.
g) Allow trace to fully stabilize.
h) Use the peak marker function to determine the maximum amplitude level.
Ensure that the amplitude of all unwanted emissions outside of the authorized frequency band (excluding restricted frequency bands) is attenuated by at least the minimum requirements.
Report the three highest emissions relative to the limit.

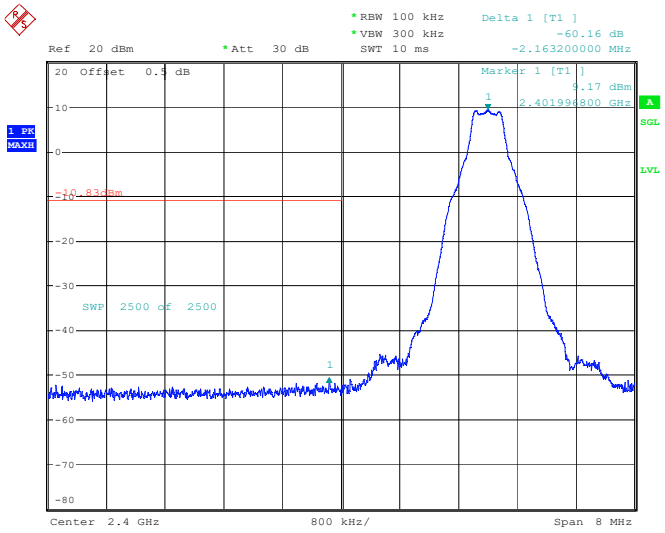
Test Data

Test Mode:	Transmitting	Test Engineer:	Stein Peng
Test Date:	2024-08-07	Environment:	Temp.: 23.9°C Humi.: 60% Atm :99.8kPa

Please refer to the below plots:

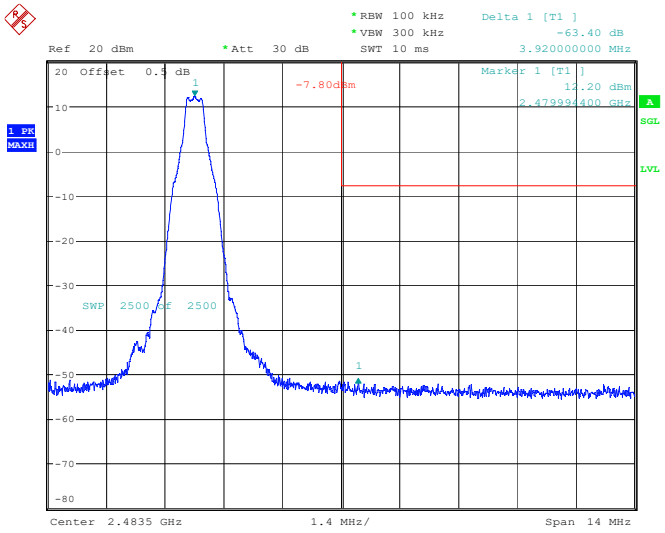
Band Edge

BDR (GFSK): Left Side



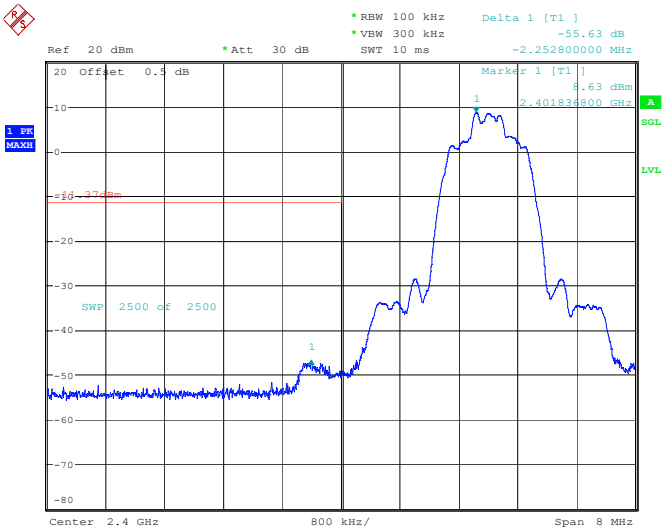
ProjectNo.:2407V20721E-RF Tester:Stein Peng
Date: 7.AUG.2024 14:28:05

BDR (GFSK): Right Side



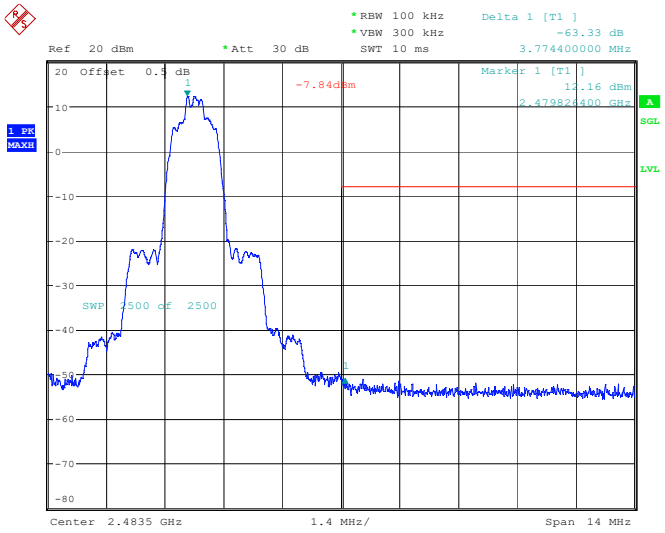
ProjectNo.:2407V20721E-RF Tester:Stein Peng
Date: 7.AUG.2024 14:41:36

EDR (π /4-DQPSK_): Left Side



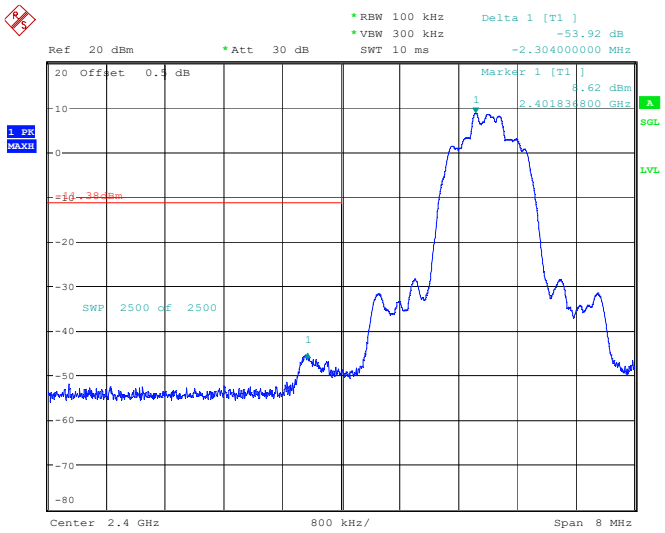
ProjectNo.:2407V20721E-RF Tester:Stein Peng
Date: 7.AUG.2024 14:46:03

EDR (π/4-DQPSK): Right Side



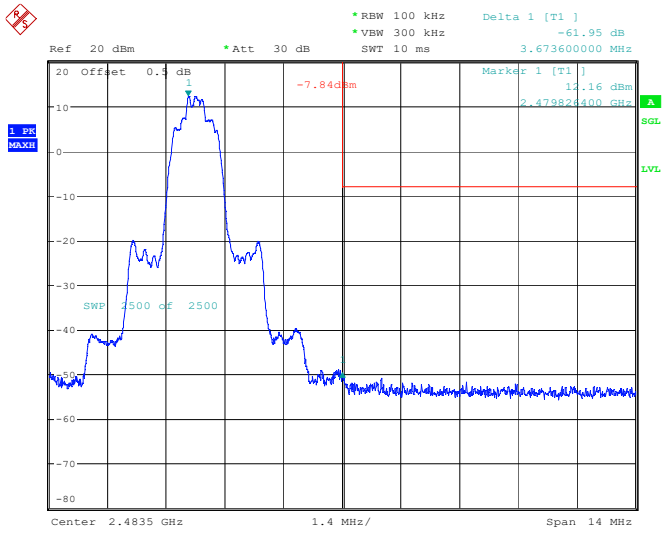
ProjectNo.:2407V20721E-RF Tester:Stein Peng
Date: 7.AUG.2024 14:57:37

EDR (8DPSK): Left Side



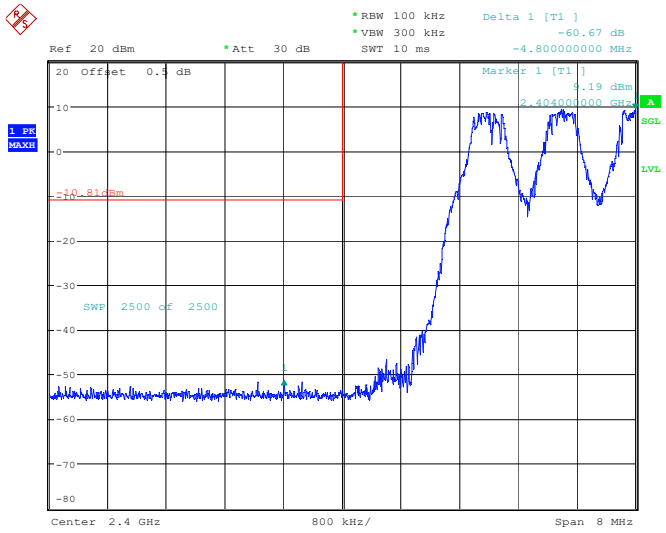
ProjectNo.:2407V20721E-RF Tester:Stein Peng
Date: 7.AUG.2024 15:00:42

EDR (8DPSK): Right Side



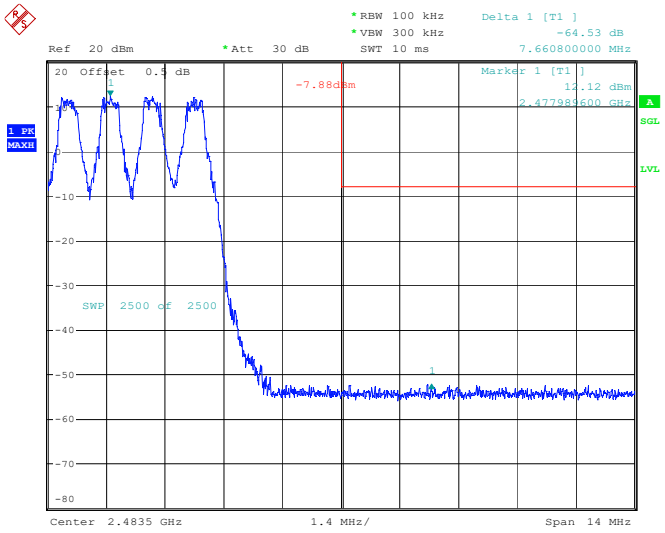
ProjectNo.:2407V20721E-RF Tester:Stein Peng
Date: 7.AUG.2024 15:11:40

BDR (GFSK): Left Side - Hopping



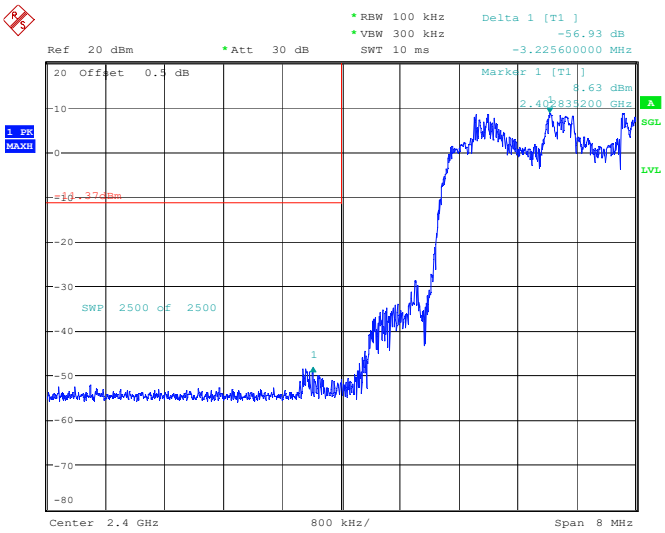
ProjectNo.:2407V20721E-RF Tester:Stein Peng
Date: 7.AUG.2024 14:32:22

BDR (GFSK): Right Side - Hopping



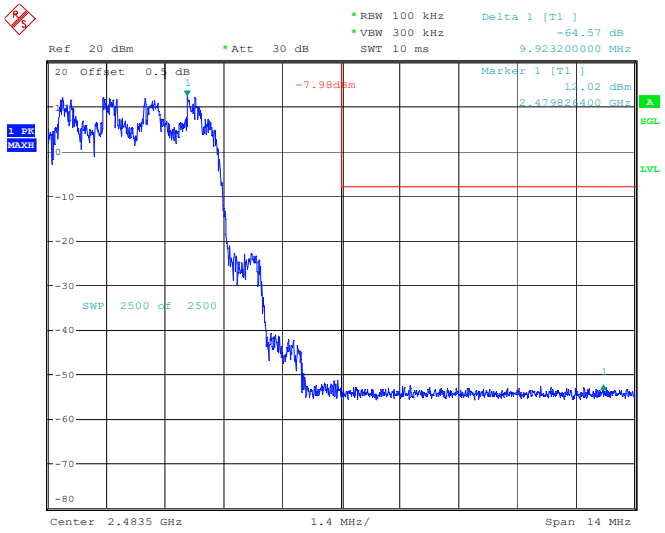
ProjectNo.:2407V20721E-RF Tester:Stein Peng
Date: 7.AUG.2024 14:37:45

EDR (π/4-DQPSK): Left Side - Hopping



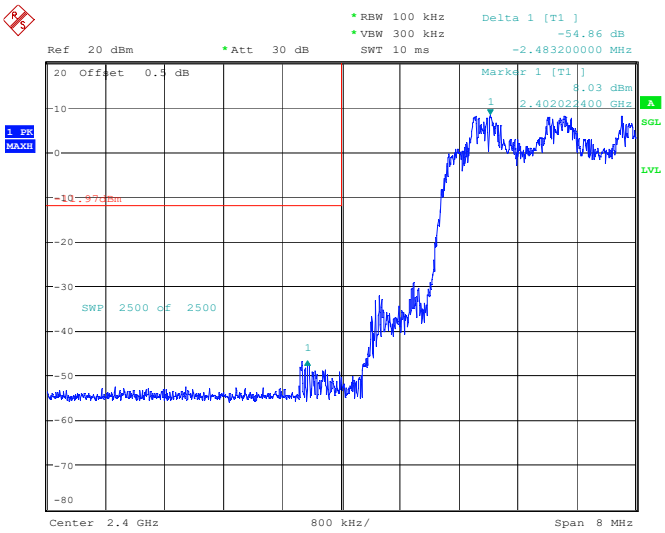
ProjectNo.:2407V20721E-RF Tester:Stein Peng
Date: 7.AUG.2024 14:49:18

EDR (π/4-DQPSK): Right Side - Hopping



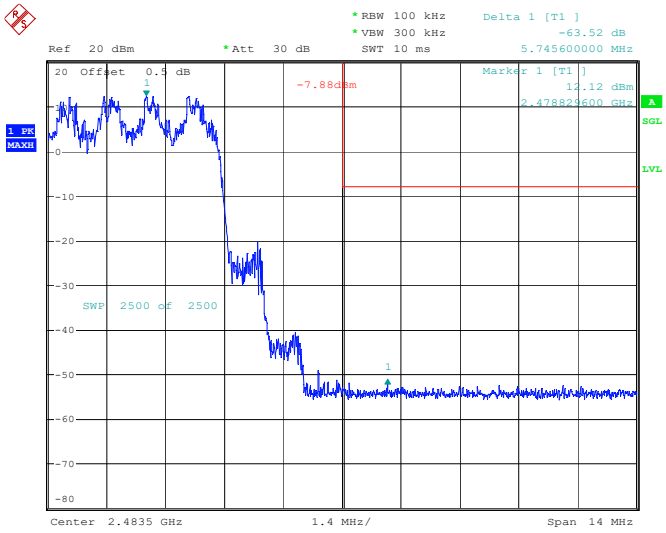
ProjectNo.:2407V20721E-RF Tester:Stein Peng
Date: 7.AUG.2024 14:52:28

EDR (8DPSK): Left Side - Hopping



ProjectNo.:2407V20721E-RF Tester:Stein Peng
Date: 7.AUG.2024 15:02:45

EDR (8DPSK): Right Side - Hopping



ProjectNo.:2407V20721E-RF Tester:Stein Peng
Date: 7.AUG.2024 15:07:54

EUT PHOTOGRAPHS

Please refer to the attachment 2407V20721E-RF-EXP EUT EXTERNAL PHOTOGRAPHS and 2407V20721E-RF-INP EUT INTERNAL PHOTOGRAPHS.

TEST SETUP PHOTOGRAPHS

Please refer to the attachment 2407V20721E-RF-TSP-01 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 *******