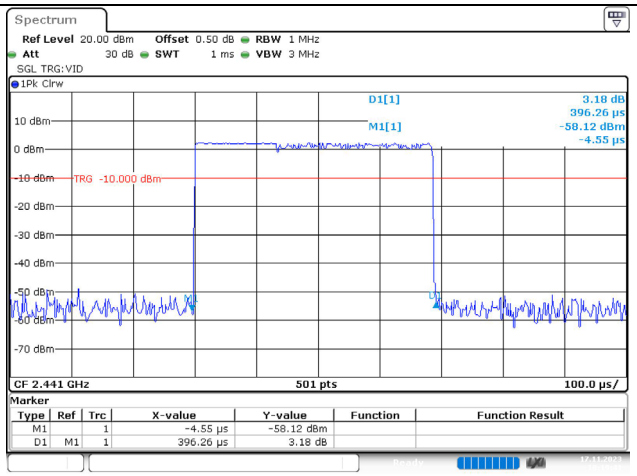
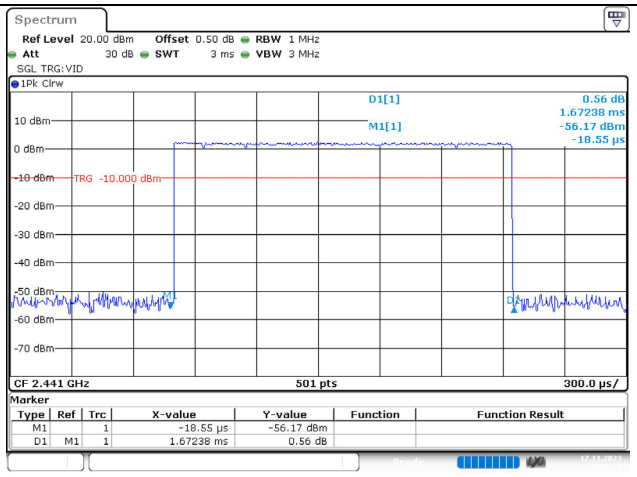
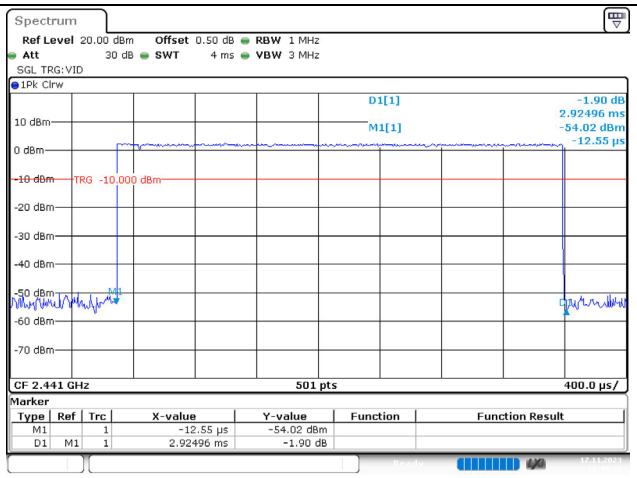
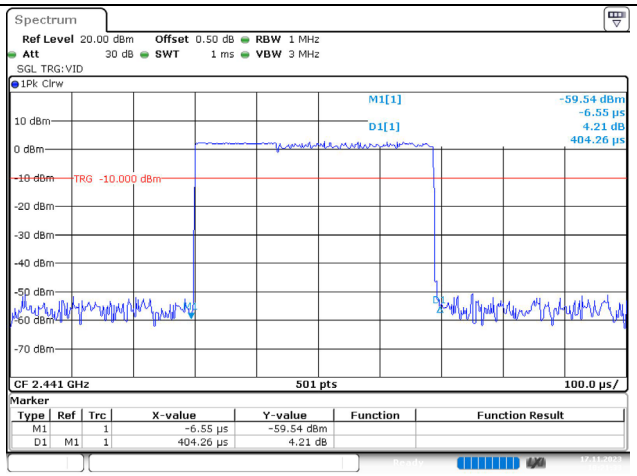
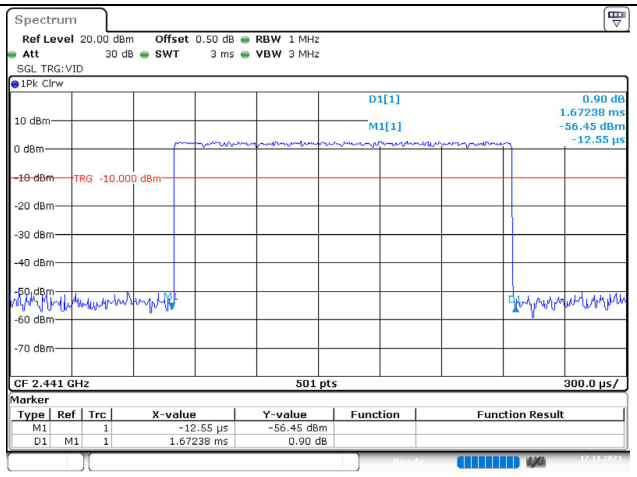
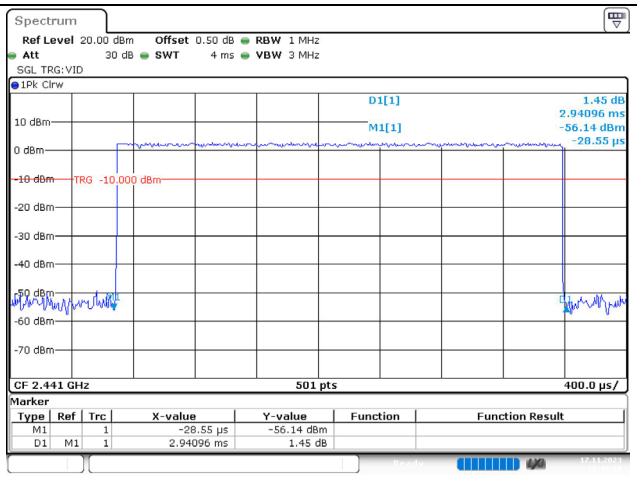
EDR Mode (π/4-DQPSK)	
2DH1:	
2DH3:	
2DH5:	

EDR Mode (8DPSK)	
3DH1:	
3DH3:	
3DH5:	

4.7 Maximum Conducted Output Power

Serial Number:	2D1L-2	Test Date:	2023/11/17~2024/1/17
Test Site:	RF	Test Mode:	Transmitting
Tester:	Jou Zhou	Test Result:	Pass

Environmental Conditions:					
Temperature: (℃)	24.2~26.1	Relative Humidity: (%)	27~39	ATM Pressure: (kPa)	99.9~101.4

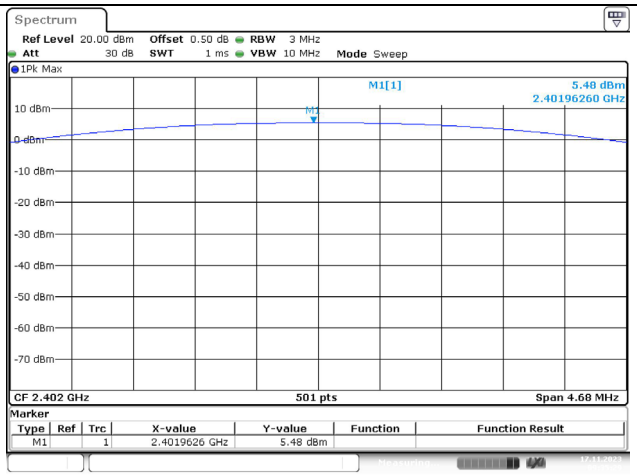
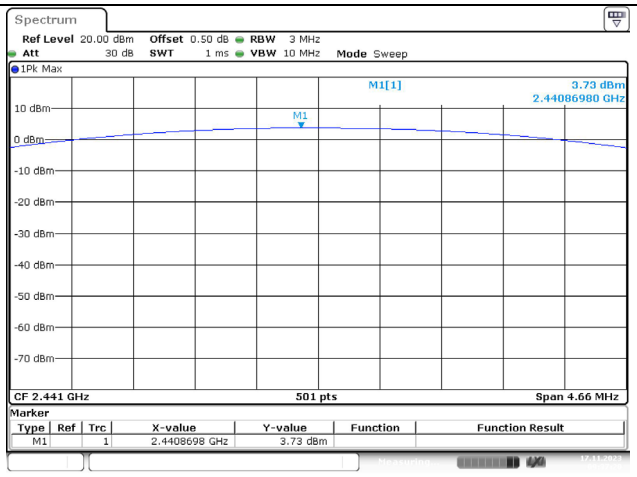
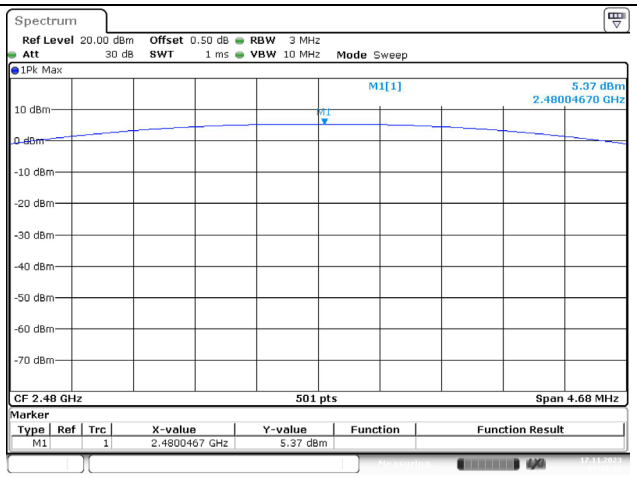
Test Equipment List and Details:

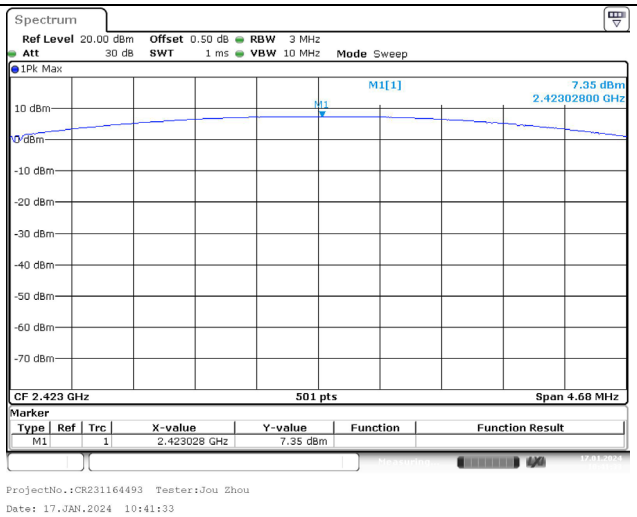
Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSV40	101943	2023/3/31	2024/3/30
zhuoxiang	Coaxial Cable	SMA-178	211002	Each time	N/A
Mini-Circuits	DC Block	BLK-18-S+	1554403	Each time	N/A

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

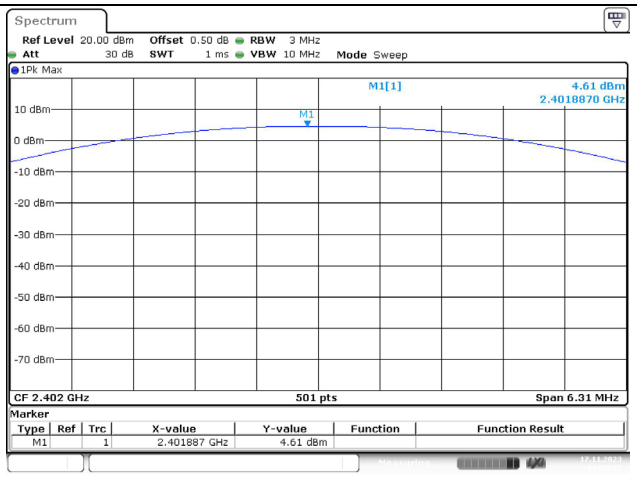
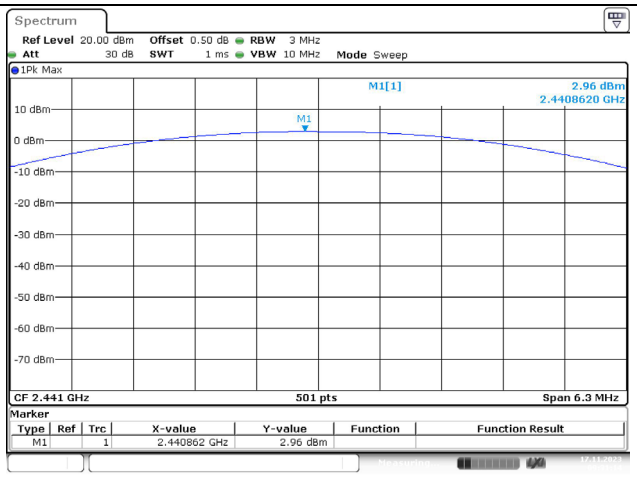
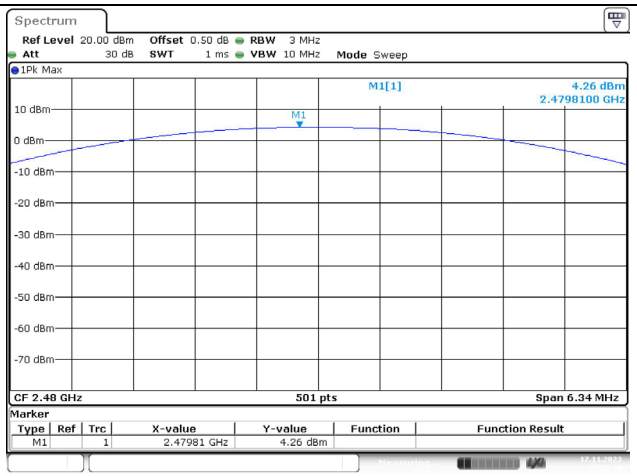
Test Data:

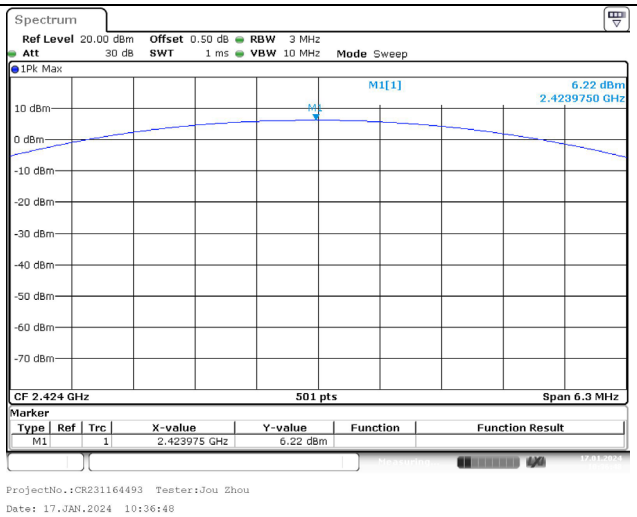
Test Modes	Test Frequency (MHz)	Peak Conducted Output Power (dBm)	Limits (dBm)
BDR Mode (GFSK)	2402	5.48	21
	2423	7.35	21
	2441	3.73	21
	2480	5.37	21
EDR Mode (π/4-DQPSK)	2402	4.61	21
	2424	6.22	21
	2441	2.96	21
	2480	4.26	21
EDR Mode (8DPSK)	2402	5.01	21
	2424	6.18	21
	2441	3.28	21
	2480	4.77	21

BDR Mode (GFSK)	
Lowest Channel	
Middle Channel	
Highest Channel	

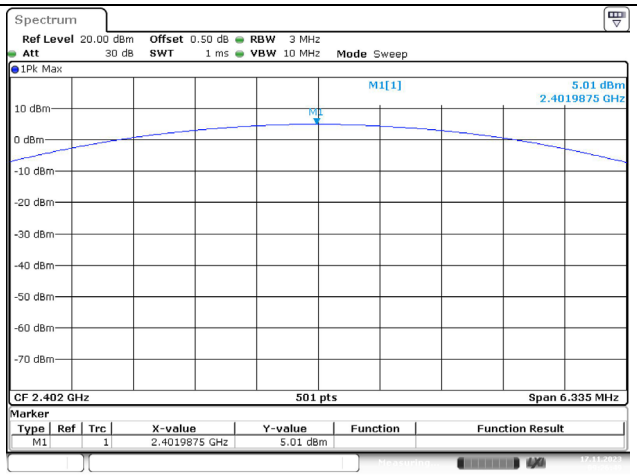
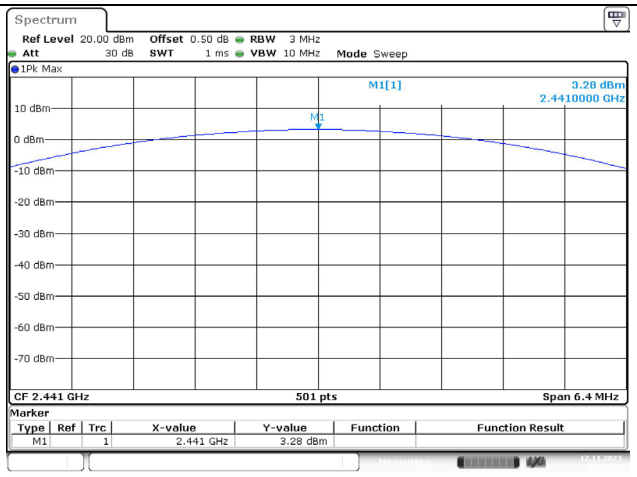
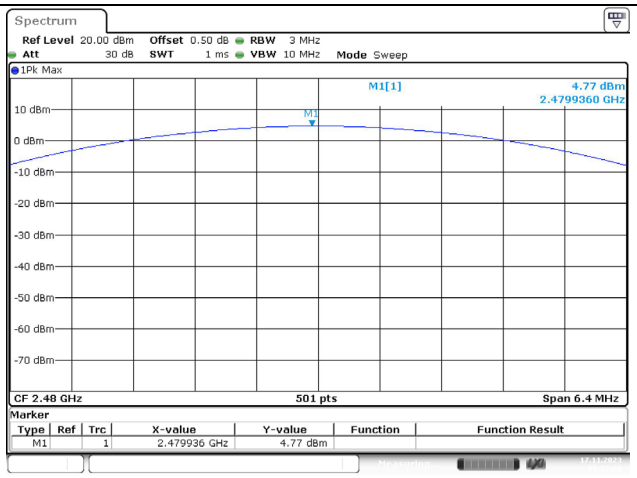
2423 MHz	

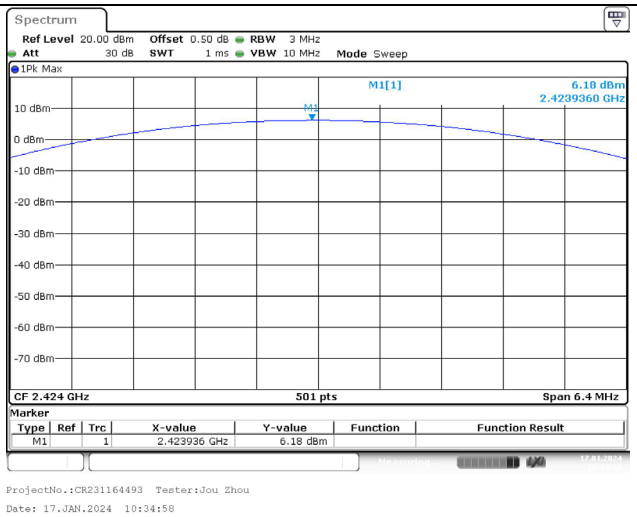
Spectrum
Ref Level 20.00 dBm Offset 0.50 dB RBW 3 MHz
Att 30 dB SWT 1 ms VBW 10 MHz Mode Sweep
1Pk Max
M1[1] 7.35 dBm
2.42302800 GHz
M1
10 dBm
0 dBm
-10 dBm
-20 dBm
-30 dBm
-40 dBm
-50 dBm
-60 dBm
-70 dBm
CF 2.423 GHz 501 pts Span 4.68 MHz
Marker
Type Ref Trc X-value Y-value Function Function Result
M1 1 2.423028 GHz 7.35 dBm
ProjectNo.:CR231164493 Tester:Jou Zhou
Date: 17.JAN.2024 10:41:33

EDR Mode (π/4-DQPSK)	
Lowest Channel	
Middle Channel	
Highest Channel	

2424 MHz	

Spectrum
Ref Level 20.00 dBm Offset 0.50 dB RBW 3 MHz
Att 30 dB SWT 1 ms VBW 10 MHz Mode Sweep
1Pk Max
M1[1] 6.22 dBm
2.4239750 GHz
10 dBm
0 dBm
-10 dBm
-20 dBm
-30 dBm
-40 dBm
-50 dBm
-60 dBm
-70 dBm
CF 2.424 GHz 501 pts Span 6.3 MHz
Marker
Type Ref Trc X-value Y-value Function Function Result
M1 1 2.423975 GHz 6.22 dBm
ProjectNo.:CR231164493 Tester:Jou Zhou
Date: 17.JAN.2024 10:36:48

EDR Mode (8DPSK)	
Lowest Channel	
Middle Channel	
Highest Channel	

2424 MHz	

Spectrum
Ref Level 20.00 dBm Offset 0.50 dB RBW 3 MHz
Att 30 dB SWT 1 ms VBW 10 MHz Mode Sweep
1Pk Max
M1[1] 6.18 dBm
2.4239360 GHz
10 dBm
0 dBm
-10 dBm
-20 dBm
-30 dBm
-40 dBm
-50 dBm
-60 dBm
-70 dBm
CF 2.424 GHz 501 pts Span 6.4 MHz
Marker
Type Ref Trc X-value Y-value Function Function Result
M1 1 2.423936 GHz 6.18 dBm
ProjectNo.:CR231164493 Tester:Jou Zhou
Date: 17.JAN.2024 10:34:58

4.8 100 kHz Bandwidth of Frequency Band Edge

Serial Number:	2D1L-2	Test Date:	2023/11/17
Test Site:	RF	Test Mode:	Transmitting
Tester:	Jou Zhou	Test Result:	Pass

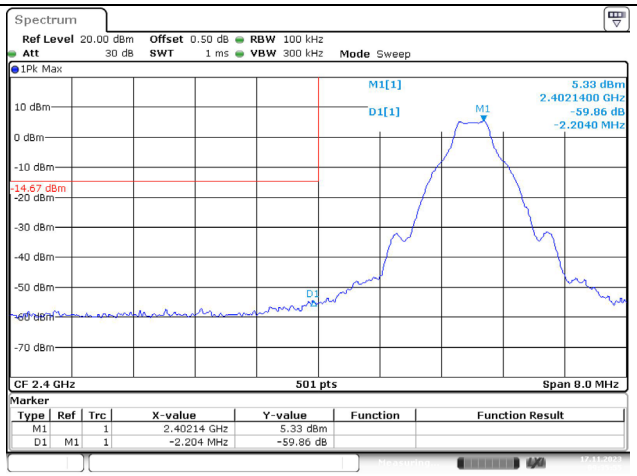
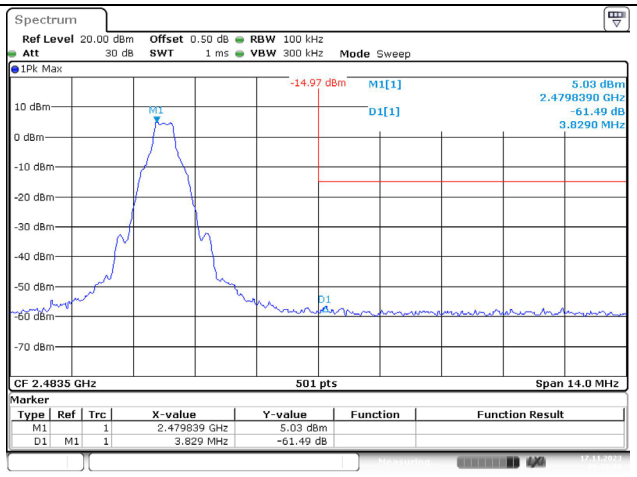
Environmental Conditions:					
Temperature: (℃)	26.1	Relative Humidity: (%)	27	ATM Pressure: (kPa)	102.1

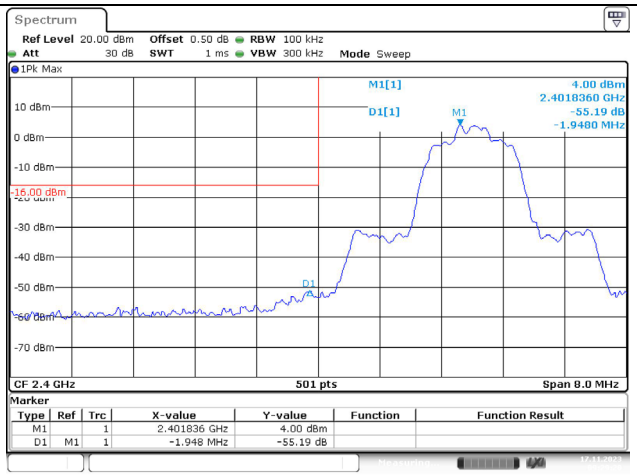
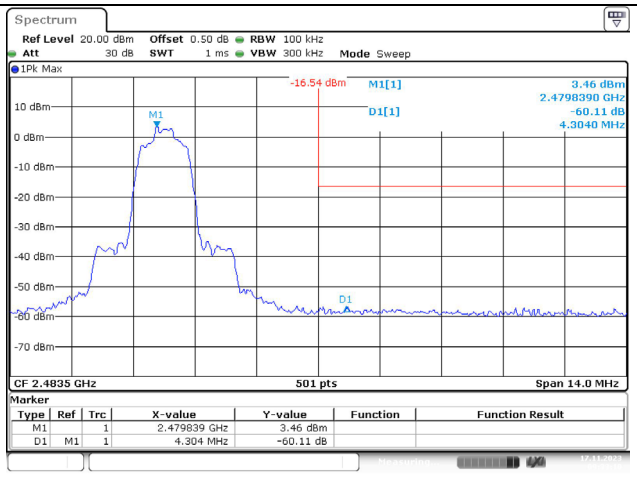
Test Equipment List and Details:

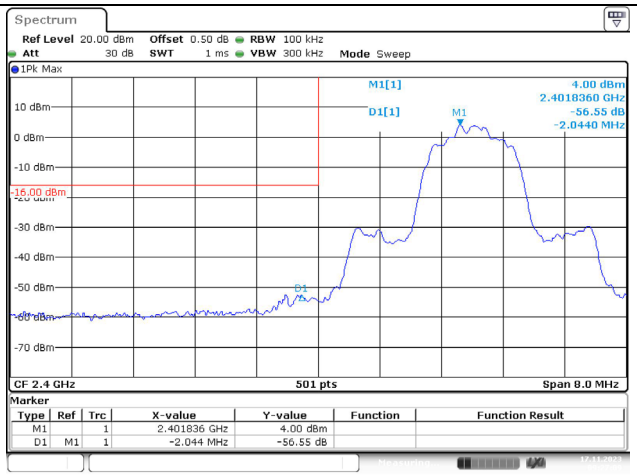
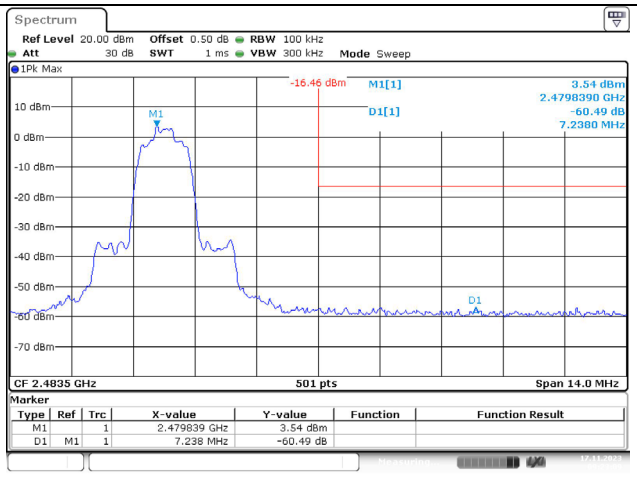
Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSV40	101943	2023/3/31	2024/3/30
zhuoxiang	Coaxial Cable	SMA-178	211002	Each time	N/A
Mini-Circuits	DC Block	BLK-18-S+	1554403	Each time	N/A

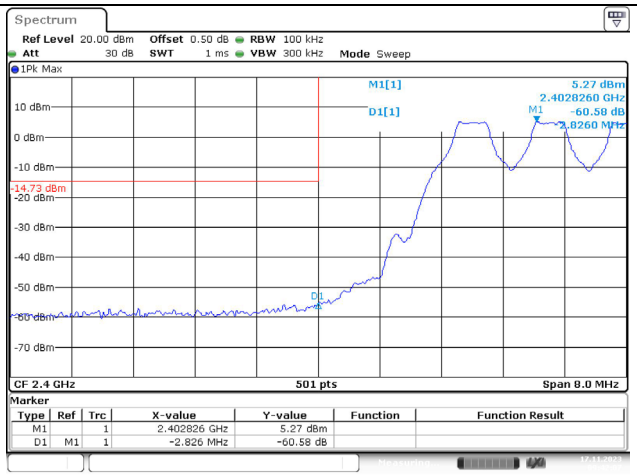
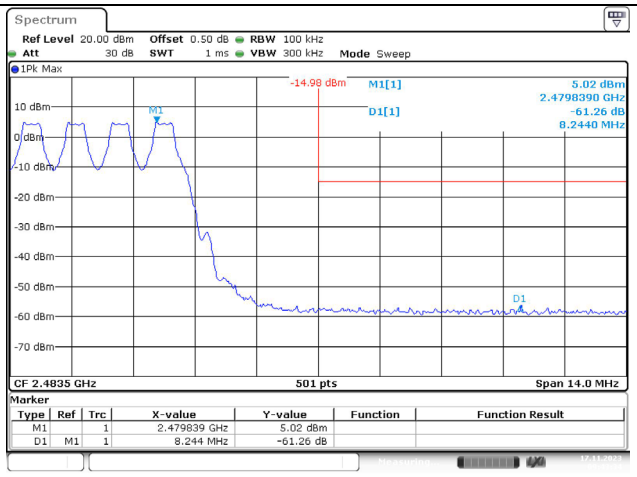
** Statement of Traceability: China Certification ICT Co., Ltd (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).*

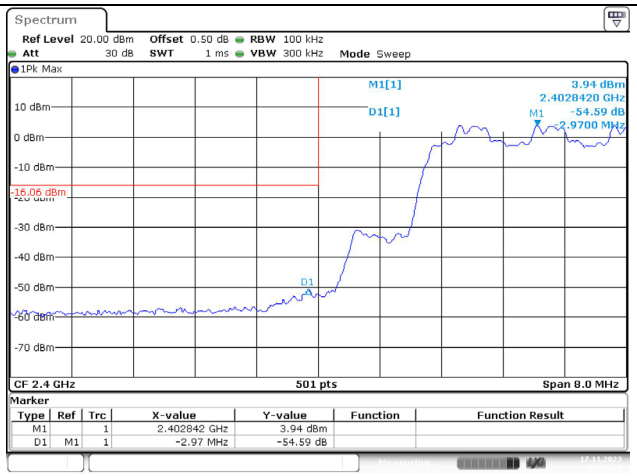
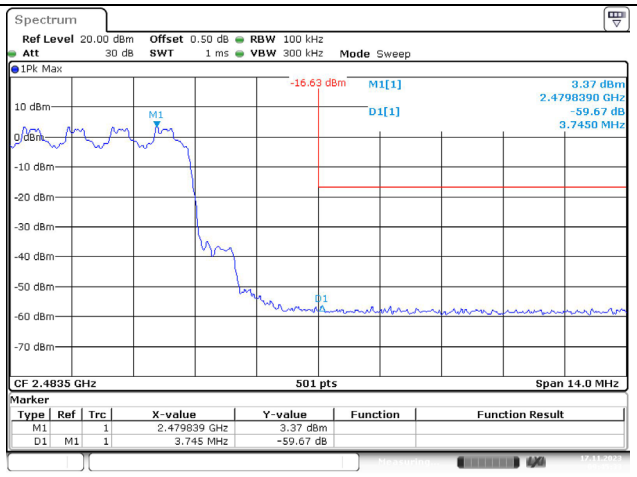
Test Data:

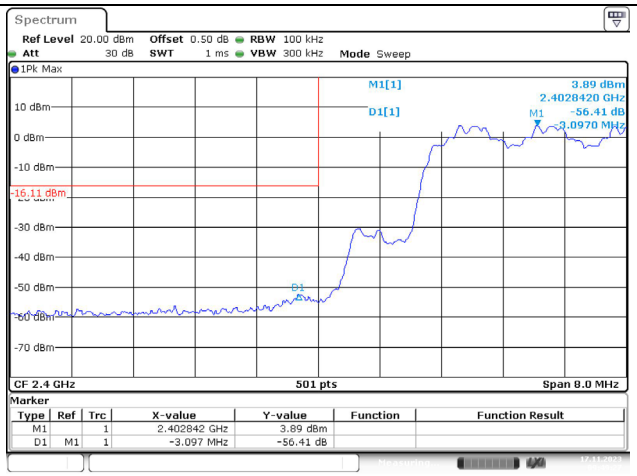
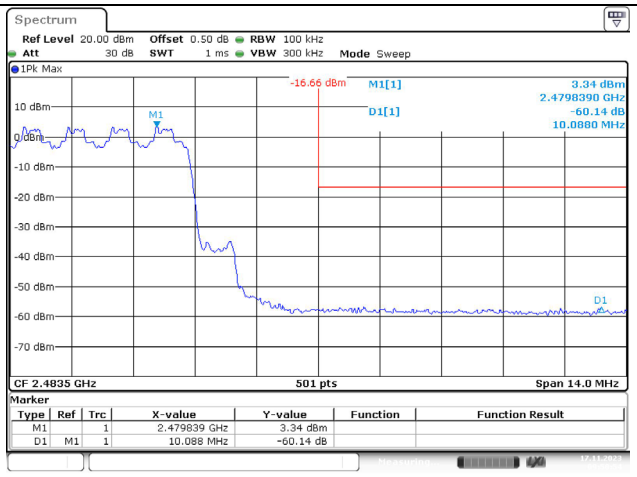
Band Edge, Single Channel	
BDR Mode (GFSK), Left Side	
BDR Mode (GFSK), Right Side	

Band Edge, Single Channel	
EDR Mode (π/4-DQPSK), Left Side	
EDR Mode (π/4-DQPSK), Right Side	

Band Edge, Single Channel	
EDR Mode (8DPSK), Left Side	
EDR Mode (8DPSK), Right Side	

Band Edge, Hopping Channel	
BDR Mode (GFSK), Left Side	
BDR Mode (GFSK), Right Side	

Band Edge, Hopping Channel	
EDR Mode (π/4-DQPSK), Left Side	
EDR Mode (π/4-DQPSK), Right Side	

Band Edge, Hopping Channel	
EDR Mode (8DPSK), Left Side	
EDR Mode (8DPSK), Right Side	

5. RF EXPOSURE EVALUATION

5.1 Applicable Standard

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

According to KDB447498 D01 General RF Exposure Guidance v06:

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances ≤ 50 mm are determined by:
[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] · [√f(GHz)] ≤ 3.0 for 1-g SAR and ≤ 7.5 for 10-g extremity SAR, where

- f(GHz) is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation
- The result is rounded to one decimal place for comparison
- 3.0 and 7.5 are referred to as the numeric thresholds in the step 2 below

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

5.2 Measurement Result

The max conducted power including tune-up tolerance is 7.5 dBm (5.62mW).
[(max. power of channel, mW)/(min. test separation distance, mm)][√f(GHz)]
=5.62/5*(√2.480) = 1.8< 3.0

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

6. EUT PHOTOGRAPHS

Please refer to the attachment CR231164493-EXP EUT EXTERNAL PHOTOGRAPHS and CR231164493-INP EUT INTERNAL PHOTOGRAPHS

7. TEST SETUP PHOTOGRAPHS

Please refer to the attachment CR231164493-00B-TSP TEST SETUP PHOTOGRAPHS.

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