Test Information:

Serial No.:	2Q05-2	**Test Date:**	2024/08/28
Test Site:	RF	**Test Mode:**	Transmitting
Tester:	Mack Huang	**Test Result:**	Pass

Environmental Conditions:

Temperature: (°C):	26.3	**Relative Humidity: (%)**	67	**ATM Pressure: (kPa)**	100.4

Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSV40	101591	2024/04/01	2025/03/31
zhuoxiang	Coaxial Cable	SMA-178	211001	Each time	N/A
HuiXunDa	DC Block	SMA-JK 18G	DCB181108042	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).
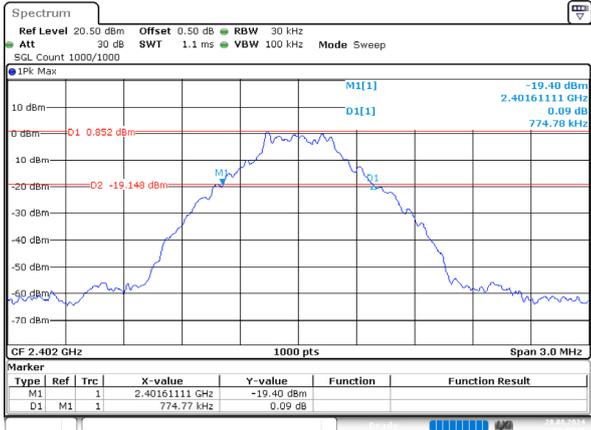
20 dB Emission Bandwidth

BDR

Mode	Value (MHz)
GFSK_Low	0.775
GFSK_Middle	0.775
GFSK_High	0.775

EDR

Mode	Value (MHz)
π/4-DQPSK_Low	1.213
π/4-DQPSK_Middle	1.213
π/4-DQPSK_High	1.216
8DPSK_Low	1.219
8DPSK_Middle	1.219
8DPSK_High	1.219

BDR

GFSK_Low 0.775MHz

GFSK_Middle 0.775MHz

GFSK_High 0.775MHz

EDR

π/4-DQPSK_Low 1.213MHz
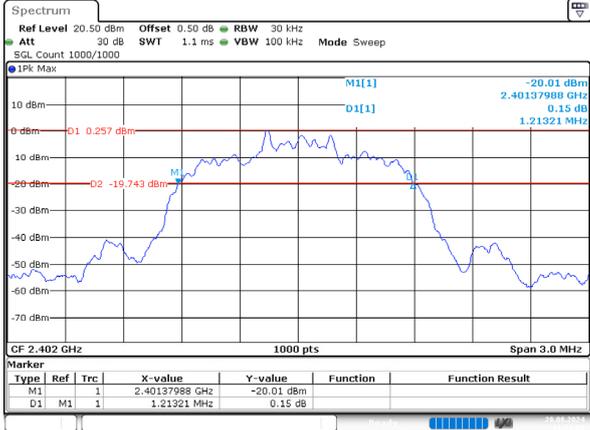
π/4-DQPSK_Middle 1.213MHz
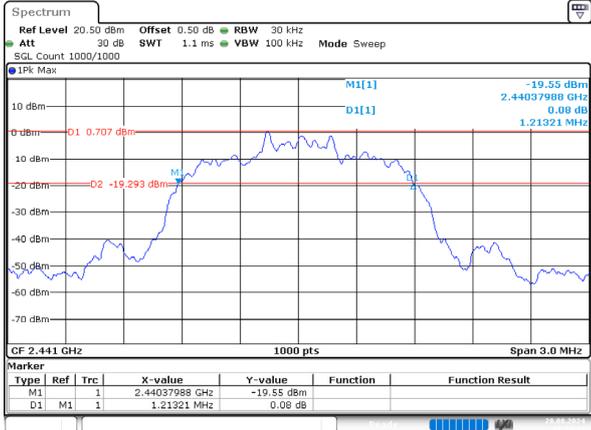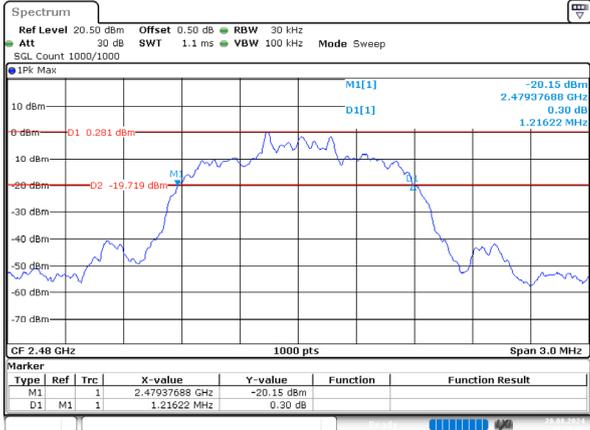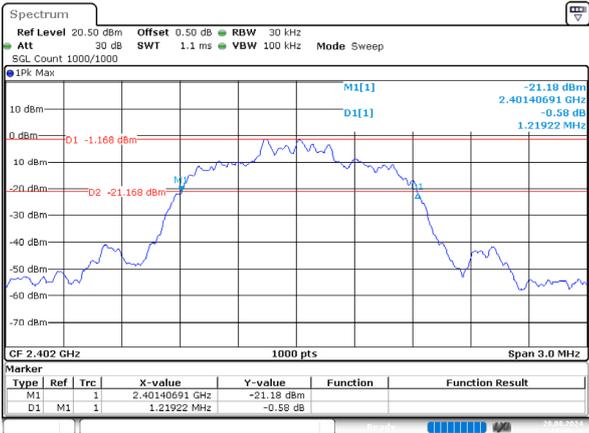

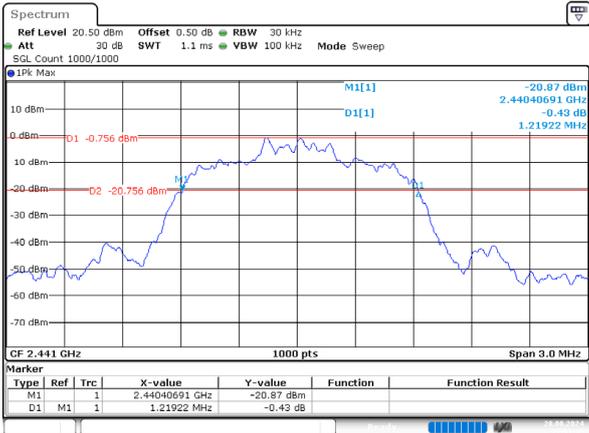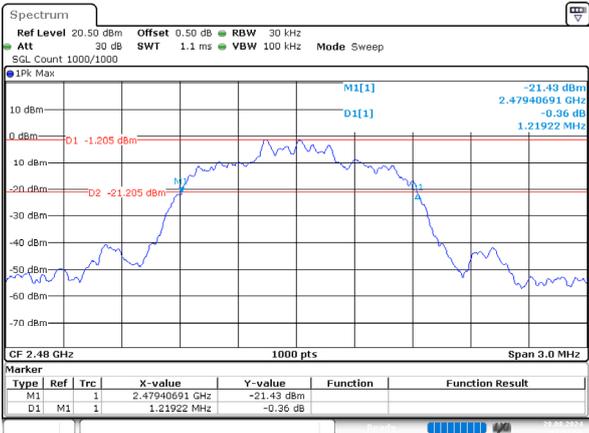### π/4-DQPSK_High 1.216MHz

8DPSK_Low 1.219MHz

ProjectNo.:2403W26164E-RF Tester:Mack Huang
Date: 28.AUG.2024 11:49:11

8DPSK_Middle 1.219MHz

ProjectNo.:2403W26164E-RF Tester:Mack Huang
Date: 28.AUG.2024 11:51:36

8DPSK_High 1.219MHz

ProjectNo.:2403W26164E-RF Tester:Mack Huang
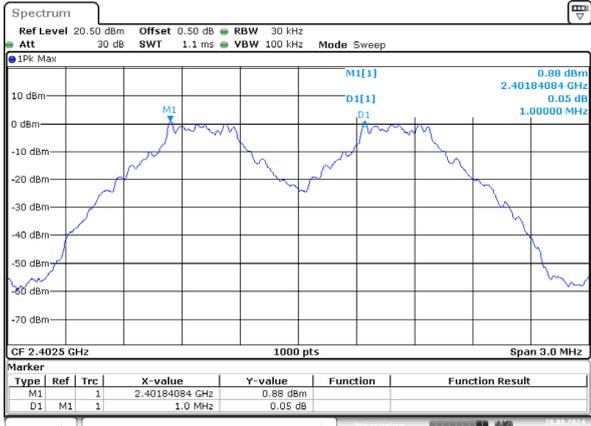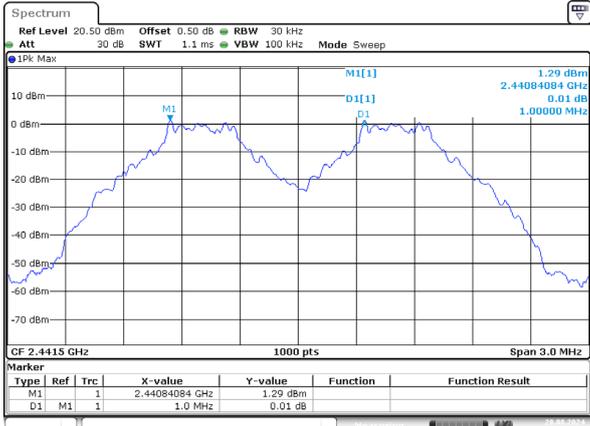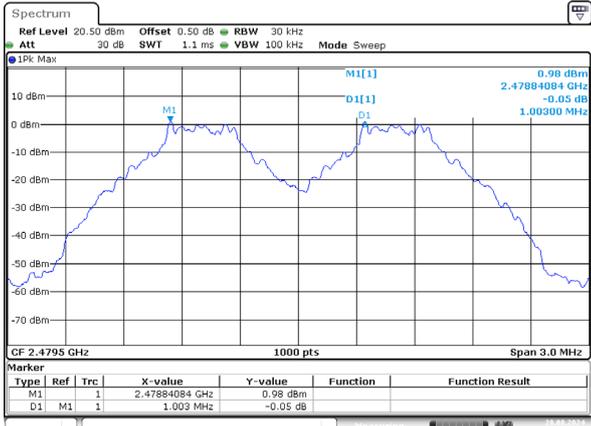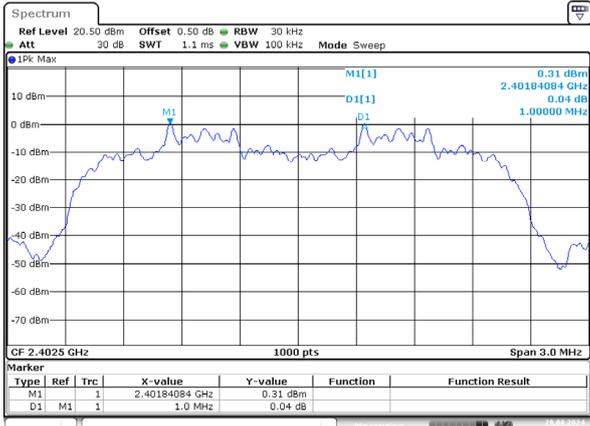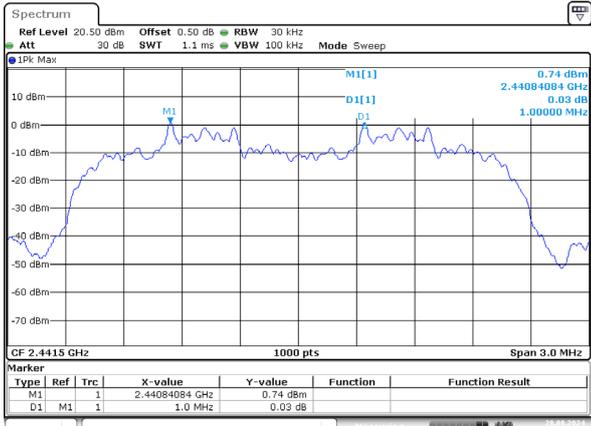Date: 28.AUG.2024 11:52:56

Channel Separation

BDR

Mode	Value (MHz)	Limit (MHz)	Result
GFSK_Low	1	0.517	Pass
GFSK_Middle	1	0.517	Pass
GFSK_High	1.003	0.517	Pass

EDR

Mode	Value (MHz)	Limit (MHz)	Result
π/4-DQPSK_Low	1	0.809	Pass
π/4-DQPSK_Middle	1	0.809	Pass
π/4-DQPSK_High	1	0.811	Pass
8DPSK_Low	1.003	0.813	Pass
8DPSK_Middle	1	0.813	Pass
8DPSK_High	1.003	0.813	Pass

BDR

GFSK_Low 1MHz

GFSK_Middle 1MHz

GFSK_High 1.003MHz

EDR

π/4-DQPSK_Low 1MHz

π/4-DQPSK_Middle 1MHz

π/4-DQPSK_High 1MHz

8DPSK_Low 1.003MHz

8DPSK_Middle 1MHz

8DPSK_High 1.003MHz

Number of Hopping Frequency

BDR

Mode	Value	Limit	Result
GFSK_Hopping	79	15	Pass

EDR

Mode	Value	Limit	Result
π/4-DQPSK_Hopping	79	15	Pass
8DPSK_Hopping	79	15	Pass

BDR

EDR
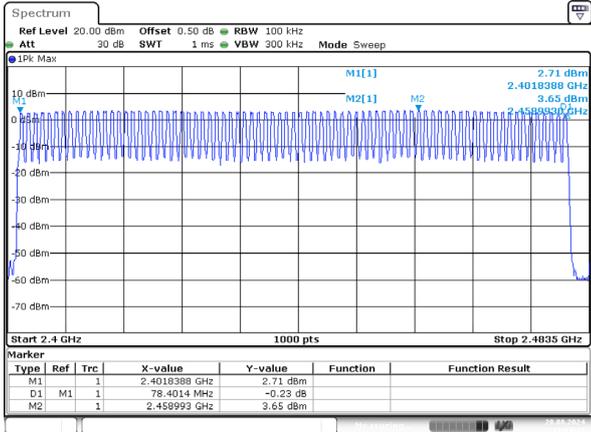
GFSK_Hopping 79

ProjectNo.:2403W26164E-RF Tester:Mack Huang
Date: 28.AUG.2024 11:14:42

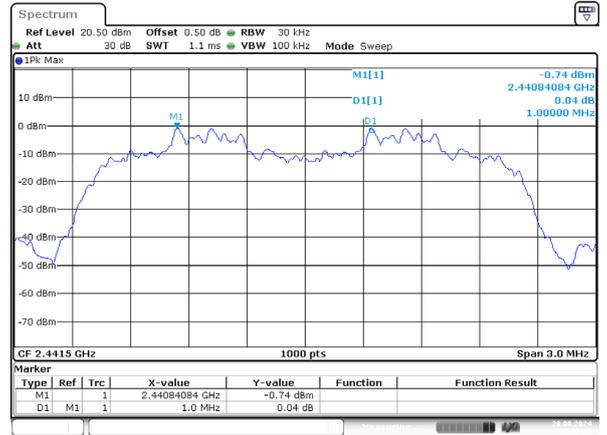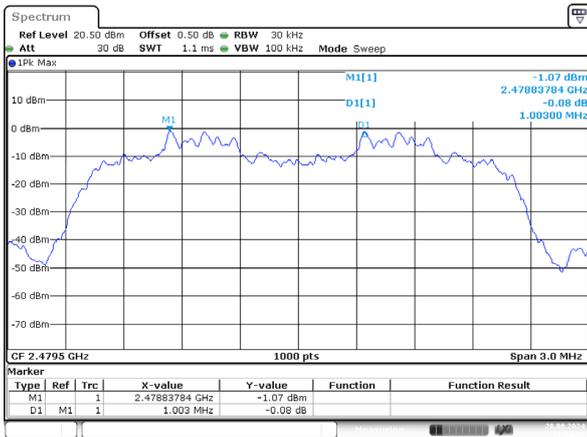### π/4-DQPSK_Hopping 79

ProjectNo.:2403W26164E-RF Tester:Mack Huang
Date: 28.AUG.2024 11:31:11

8DPSK_Hopping 79

ProjectNo.:2403W26164E-RF Tester:Mack Huang
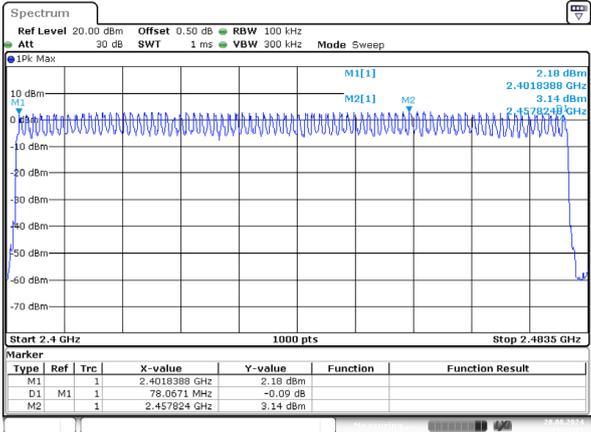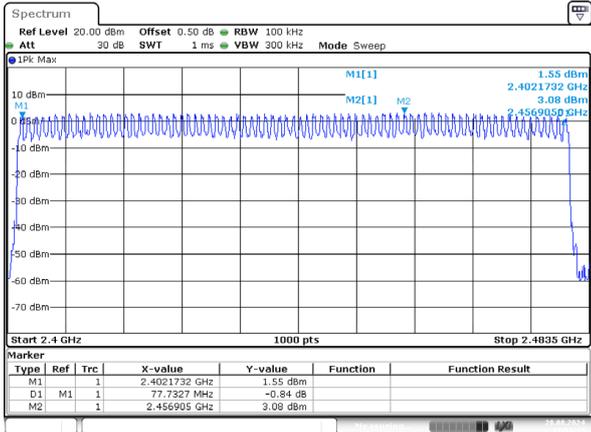Date: 28.AUG.2024 11:58:14

Time of Occupancy (dwell time)

BDR

Mode	Pulse width (ms)	Dwell time (s)	Limit (s)	Result
GFSK_Hopping_DH1	0.387	0.124	0.400	Pass
GFSK_Hopping_DH3	1.652	0.264	0.400	Pass
GFSK_Hopping_DH5	2.903	0.310	0.400	Pass

EDR

| Mode	Pulse width (ms)	Dwell time (s)	Limit (s)	Result
π/4-DQPSK_Hopping_2DH1	0.398	0.127	0.400	Pass
π/4-DQPSK_Hopping_2DH3	1.646	0.263	0.400	Pass
π/4-DQPSK_Hopping_2DH5	2.903	0.310	0.400	Pass
8DPSK_Hopping_3DH1	0.401	0.128	0.400	Pass
8DPSK_Hopping_3DH3	1.658	0.265	0.400	Pass
8DPSK_Hopping_3DH5	2.908	0.310	0.400	Pass

Note:

DH1:Dwell time=Pulse width (ms) × (1600/2/79) ×31.6 s

DH3:Dwell time=Pulse width (ms) × (1600/4/79) ×31.6 s

DH5:Dwell time=Pulse width (ms) × (1600/6/79) ×31.6 s

2DH1: Dwell time=Pulse width (ms) × (1600/2/79) ×31.6 s

2DH3: Dwell time=Pulse width (ms) × (1600/4/79) ×31.6 s

2DH5: Dwell time=Pulse width (ms) × (1600/6/79) ×31.6 s

3DH1: Dwell time=Pulse width (ms) × (1600/2/79) ×31.6 s

3DH3: Dwell time=Pulse width (ms) × (1600/4/79) ×31.6 s

3DH5: Dwell time=Pulse width (ms) × (1600/6/79) ×31.6 s
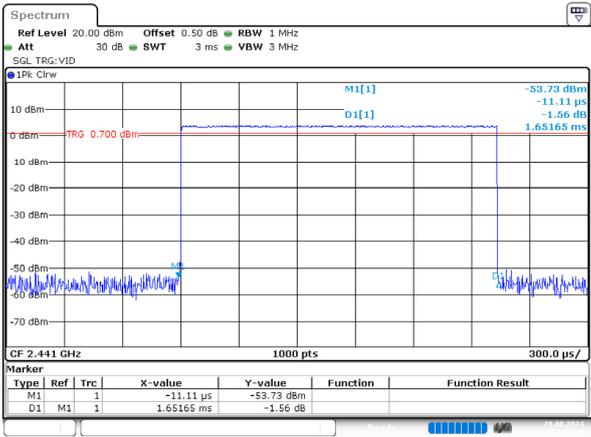
BDR

GFSK_Hopping_DH1 0.387ms
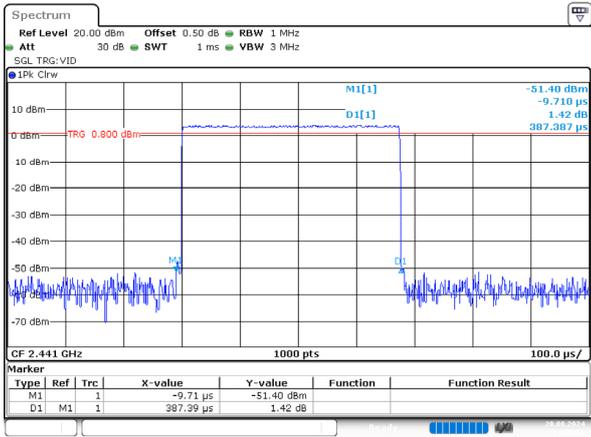
ProjectNo.:2403W26164E-RF Tester:Mack Huang
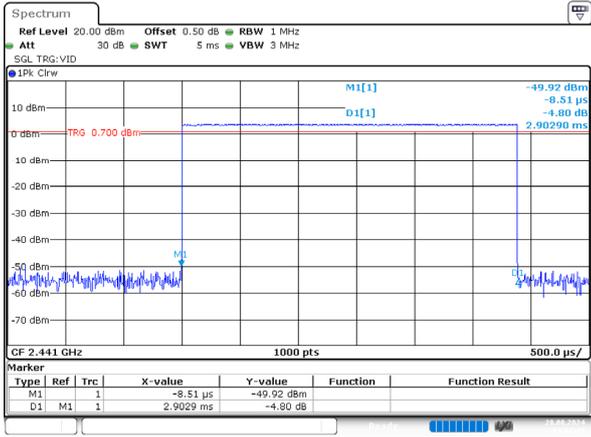Date: 28.AUG.2024 14:00:57

GFSK_Hopping_DH3 1.652ms

ProjectNo.:2403W26164E-RF Tester:Mack Huang
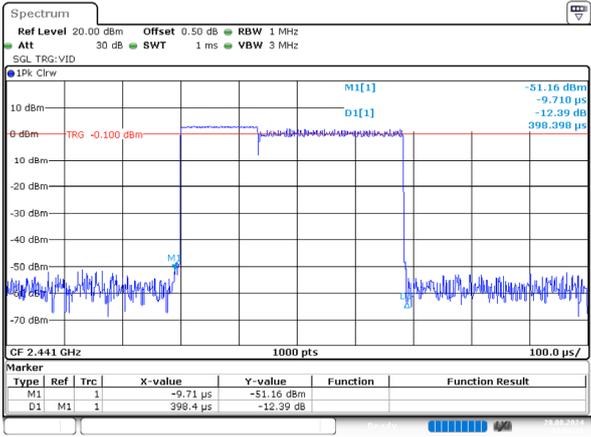Date: 28.AUG.2024 14:01:43
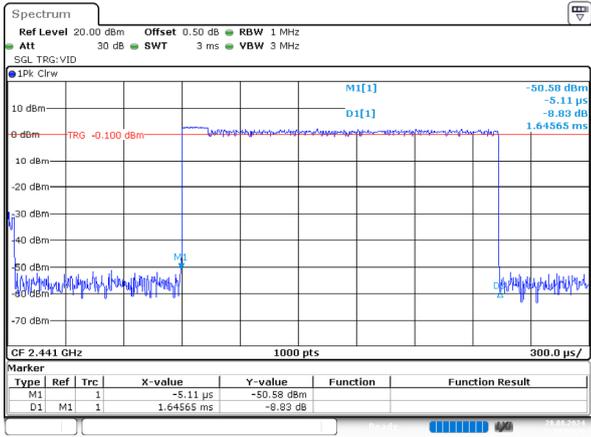
EDR

GFSK_Hopping_DH5 2.903ms

ProjectNo.:2403W26164E-RF Tester:Mack Huang
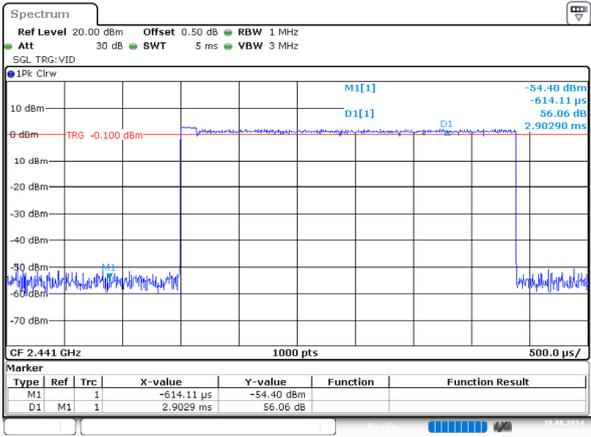Date: 28.AUG.2024 14:02:29

π/4-DQPSK_Hopping_2DH1 0.398ms

ProjectNo.:2403W26164E-RF Tester:Mack Huang
Date: 28.AUG.2024 14:03:32
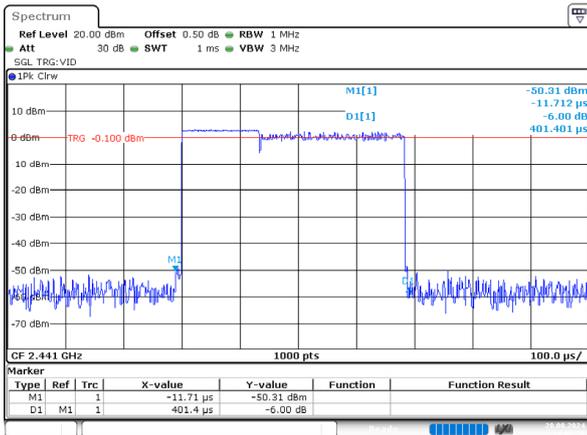
π/4-DQPSK_Hopping_2DH3 1.646ms

ProjectNo.:2403W26164E-RF Tester:Mack Huang
Date: 28.AUG.2024 14:05:36

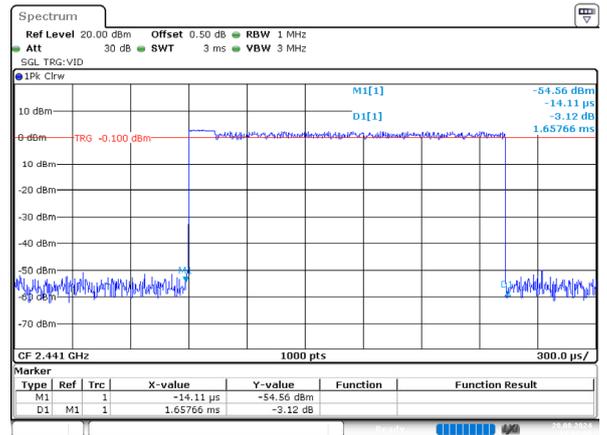### π/4-DQPSK_Hopping_2DH5 2.903ms

ProjectNo.:2403W26164E-RF Tester:Mack Huang
Date: 28.AUG.2024 14:06:15
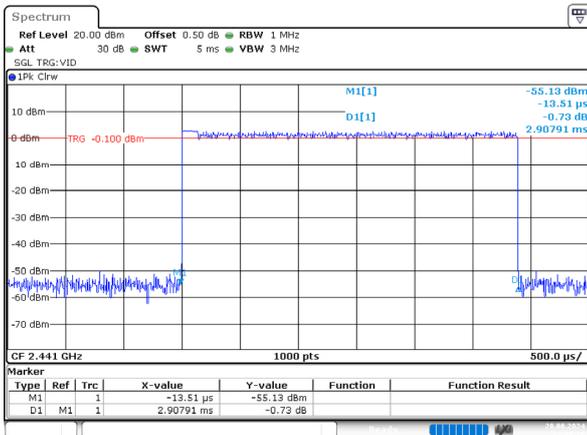
8DPSK_Hopping_3DH1 0.401ms

ProjectNo.:2403W26164E-RF Tester:Mack Huang
Date: 28.AUG.2024 14:06:57

8DPSK_Hopping_3DH3 1.658ms

ProjectNo.:2403W26164E-RF Tester:Mack Huang
Date: 28.AUG.2024 14:07:38

8DPSK_Hopping_3DH5 2.908ms

ProjectNo.:2403W26164E-RF Tester:Mack Huang
Date: 28.AUG.2024 14:08:20
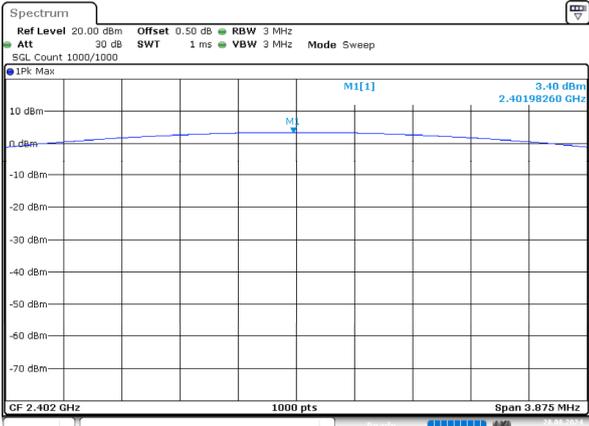
Maximum Conducted Output Power

BDR

Mode	Value (dBm)	Limit (dBm)	Result
GFSK_Low	3.40	21.00	Pass
GFSK_Middle	3.73	21.00	Pass
GFSK_High	3.39	21.00	Pass

EDR

Mode	Value (dBm)	Limit (dBm)	Result
π/4-DQPSK_Low	2.54	21.00	Pass
π/4-DQPSK_Middle	2.94	21.00	Pass
π/4-DQPSK_High	2.51	21.00	Pass
8DPSK_Low	2.55	21.00	Pass
8DPSK_Middle	2.95	21.00	Pass
8DPSK_High	2.54	21.00	Pass

BDR

GFSK_Low 3.40dBm

ProjectNo.:2403W26164E-RF Tester:Mack Huang
Date: 28.AUG.2024 11:05:19

GFSK_Middle 3.73dBm
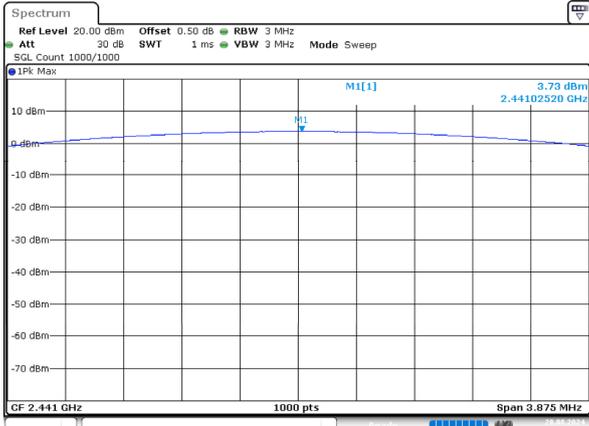
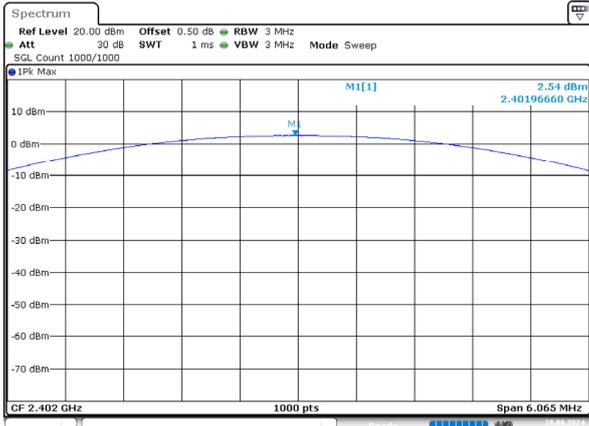ProjectNo.:2403W26164E-RF Tester:Mack Huang
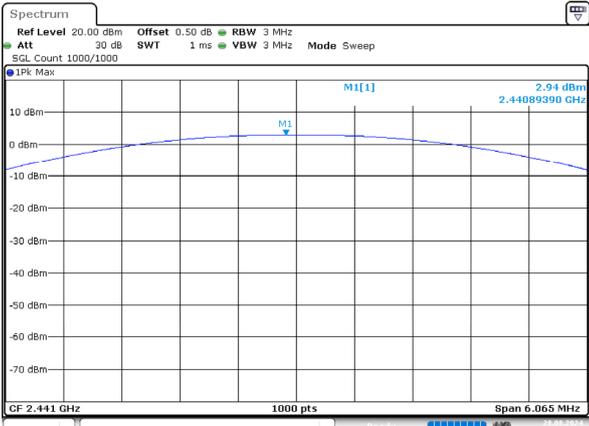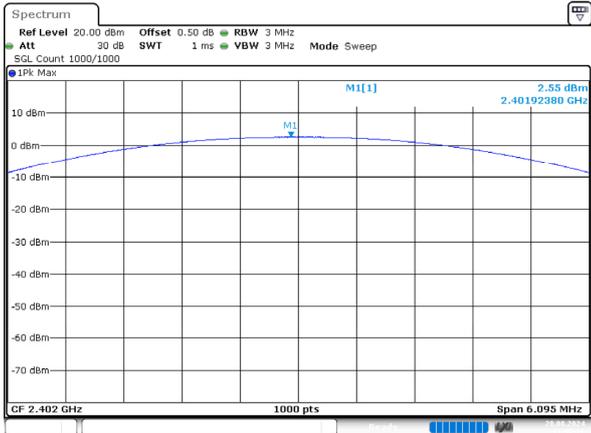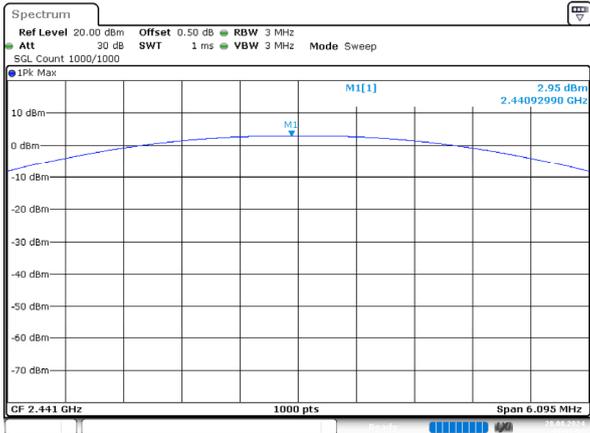Date: 28.AUG.2024 11:07:23

GFSK_High 3.39dBm
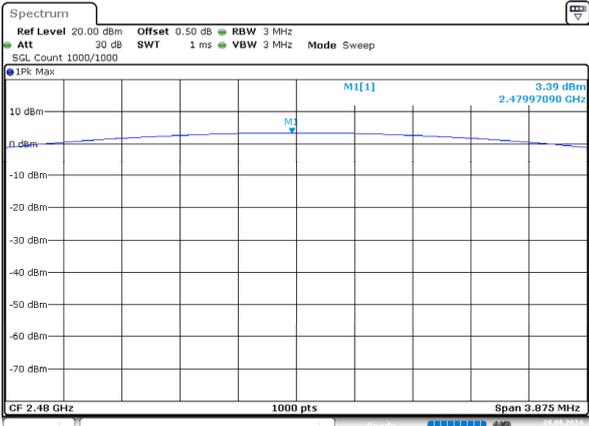
ProjectNo.:2403W26164E-RF Tester:Mack Huang
Date: 28.AUG.2024 11:10:34

EDR

π/4-DQPSK_Low 2.54dBm

ProjectNo.:2403W26164E-RF Tester:Mack Huang
Date: 28.AUG.2024 11:23:09

π/4-DQPSK_Middle 2.94dBm

ProjectNo.:2403W26164E-RF Tester:Mack Huang
Date: 28.AUG.2024 11:24:29

π/4-DQPSK_High 2.51dBm

ProjectNo.:2403W26164E-RF Tester:Mack Huang
Date: 28.AUG.2024 11:27:05
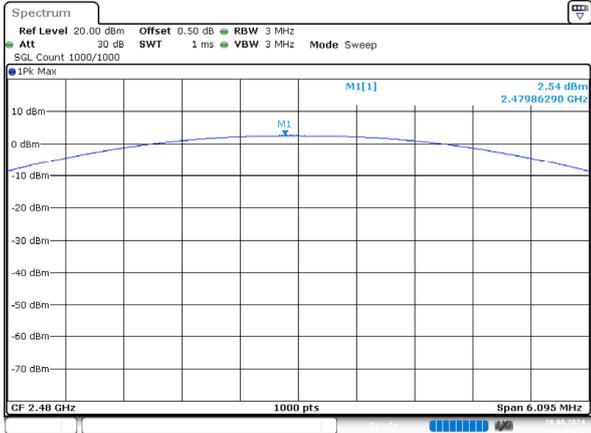
8DPSK_Low 2.55dBm

ProjectNo.:2403W26164E-RF Tester:Mack Huang
Date: 28.AUG.2024 11:50:16

8DPSK_Middle 2.95dBm

ProjectNo.:2403W26164E-RF Tester:Mack Huang
Date: 28.AUG.2024 11:51:52

8DPSK_High 2.54dBm

ProjectNo.:2403W26164E-RF Tester:Mack Huang
Date: 28.AUG.2024 11:54:18

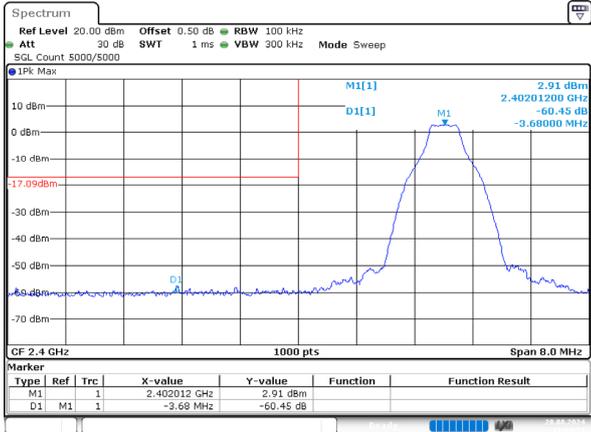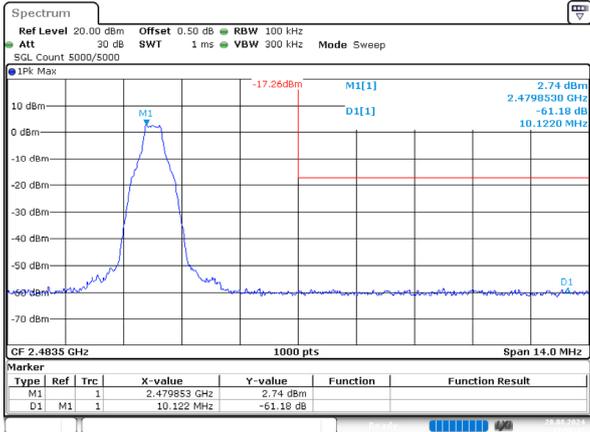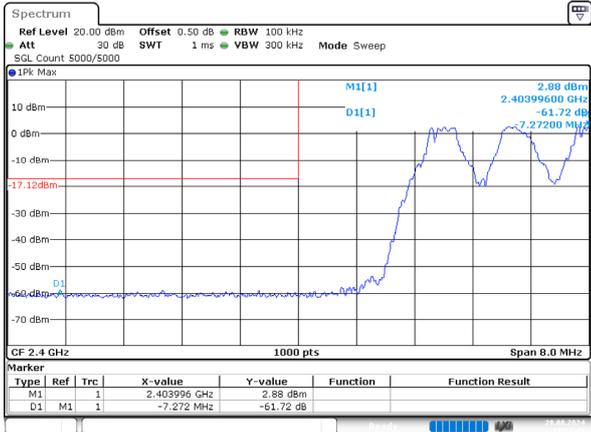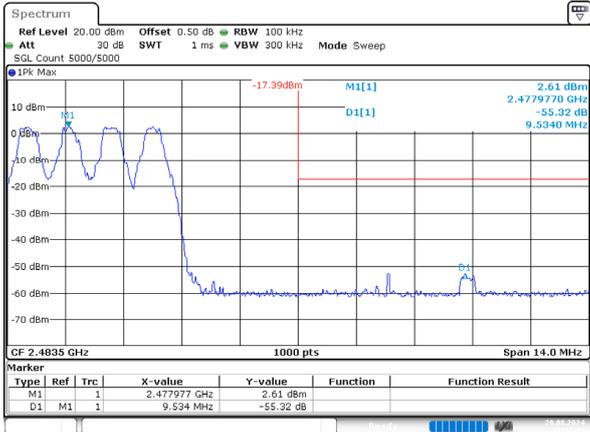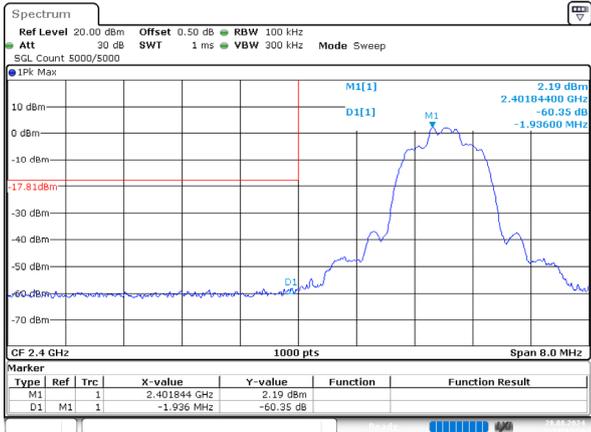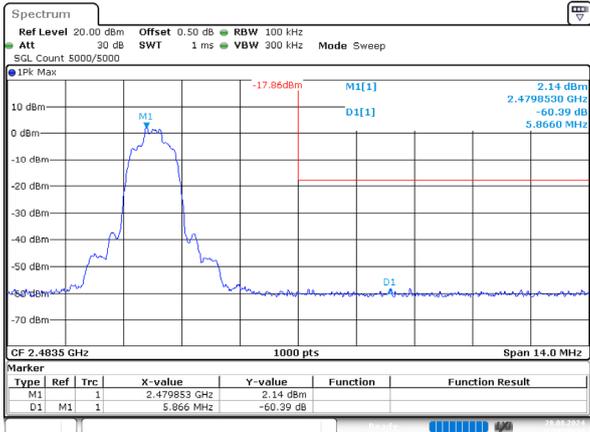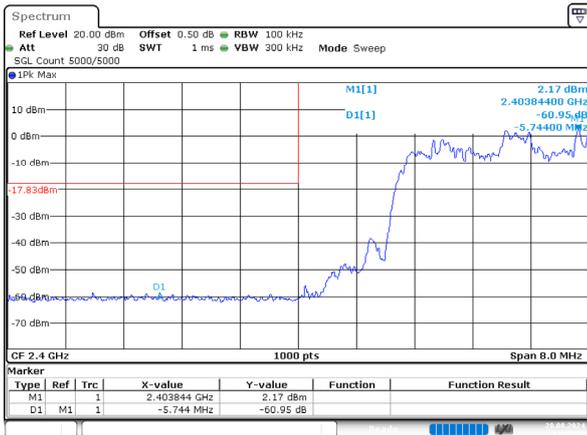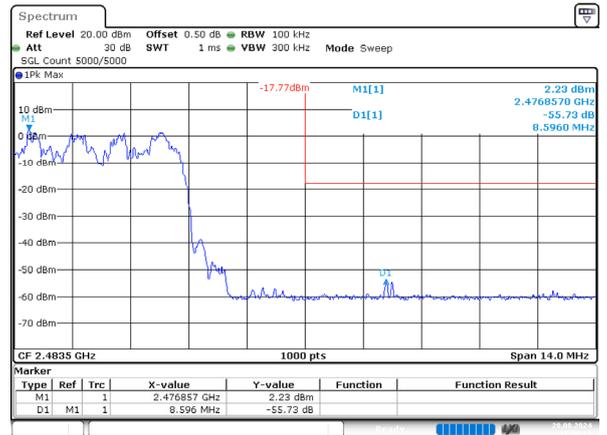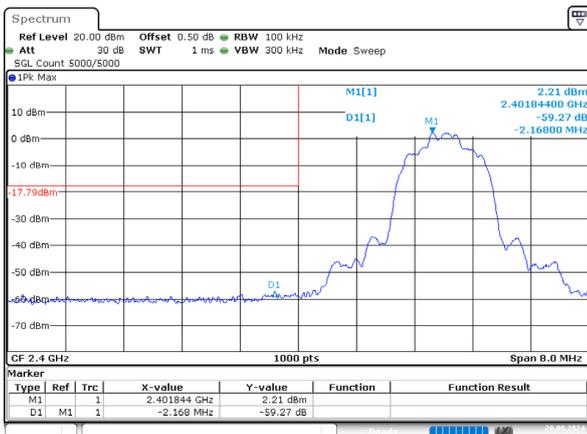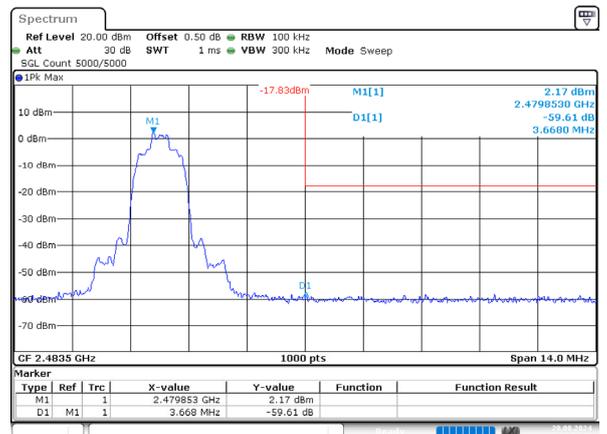## 100 kHz Bandwidth of Frequency Band Edge

BDR

Mode	Value (dB)	Limit (dB)	Result
GFSK_Low	60.45	20.00	Pass
GFSK_High	61.18	20.00	Pass
GFSK_Hopping_Lower	61.72	20.00	Pass
GFSK_Hopping_Upper	55.32	20.00	Pass

EDR

Mode	Value (dB)	Limit (dB)	Result
π/4-DQPSK_Low	60.35	20.00	Pass
π/4-DQPSK_High	60.39	20.00	Pass
π/4-DQPSK_Hopping_Lower	60.95	20.00	Pass
π/4-DQPSK_Hopping_Upper	55.73	20.00	Pass
8DPSK_Low	59.27	20.00	Pass
8DPSK_High	59.61	20.00	Pass
8DPSK_Hopping_Lower	56.82	20.00	Pass
8DPSK_Hopping_Upper	57.18	20.00	Pass

BDR

GFSK_Low 60.45dB

GFSK_High 61.18dB

GFSK_Hopping_Lower 61.72dB

GFSK_Hopping_Upper 55.32dB

EDR

π/4-DQPSK_Low 60.35dB

π/4-DQPSK_High 60.39dB

π/4-DQPSK_Hopping_Lower 60.95dB

π/4-DQPSK_Hopping_Upper 55.73dB

8DPSK_Low 59.27dB

8DPSK_High 59.61dB

8DPSK_Hopping_Lower 56.82dB

8DPSK_Hopping_Upper 57.18dB