

Test Information:

|             |          |              |              |
|-------------|----------|--------------|--------------|
| Serial No.: | 2N75-2   | Test Date:   | 2024/07/24   |
| Test Site:  | RF       | Test Mode:   | Transmitting |
| Tester:     | Chin Qin | Test Result: | Pass         |

Environmental Conditions:

|                       |      |                              |    |                        |       |
|-----------------------|------|------------------------------|----|------------------------|-------|
| Temperature:<br>(°C): | 26.1 | Relative<br>Humidity:<br>(%) | 58 | ATM Pressure:<br>(kPa) | 100.7 |
|-----------------------|------|------------------------------|----|------------------------|-------|

Test Equipment List and Details:

| Manufacturer | Description       | Model   | Serial Number | Calibration Date | Calibration Due Date |
|--------------|-------------------|---------|---------------|------------------|----------------------|
| zhuoxiang    | Coaxial Cable     | SMA-178 | 211001        | NCR              | NCR                  |
| R&S          | Spectrum Analyzer | FSU26   | 200256        | 2024/04/01       | 2025/03/31           |

*\* 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**

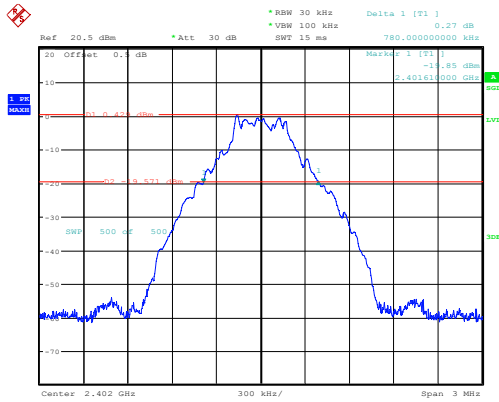
| Mode        | Value<br>(MHz) |
|-------------|----------------|
| GFSK_Low    | 0.780          |
| GFSK_Middle | 0.783          |
| GFSK_High   | 0.780          |

**EDR**

| Mode                  | Value<br>(MHz) |
|-----------------------|----------------|
| $\pi/4$ -DQPSK_Low    | 1.212          |
| $\pi/4$ -DQPSK_Middle | 1.215          |
| $\pi/4$ -DQPSK_High   | 1.215          |
| 8DPSK_Low             | 1.221          |
| 8DPSK_Middle          | 1.224          |
| 8DPSK_High            | 1.224          |

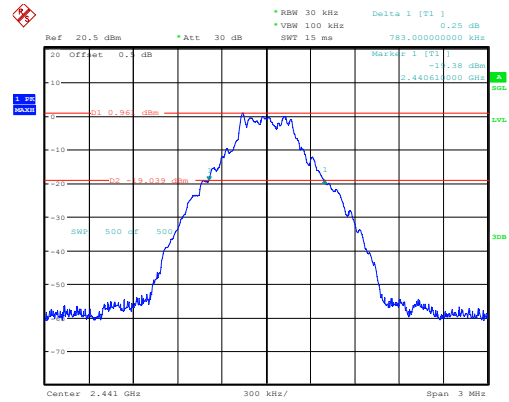
## BDR

GFSK\_Low 0.780MHz



ProjectNo.:2403U81808E-RF Tester:Chin Qin  
Date: 24.JUL.2024 20:41:58

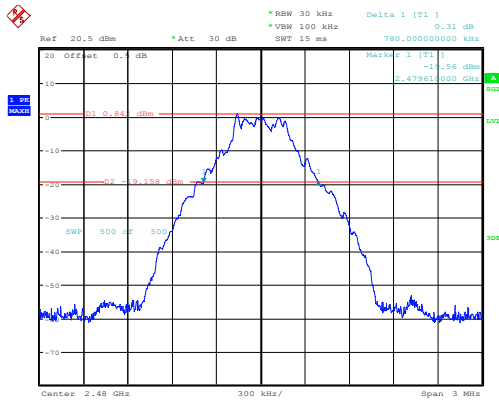
GFSK\_Middle 0.783MHz



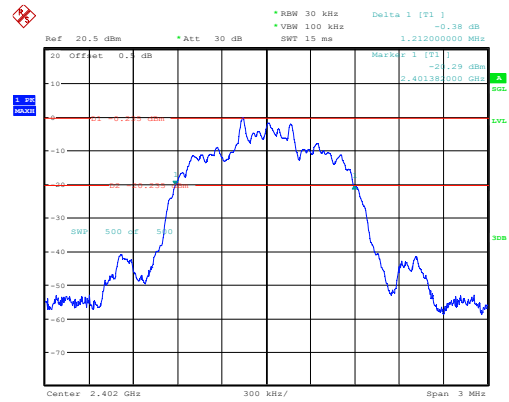
ProjectNo.:2403U81808E-RF Tester:Chin Qin  
Date: 24.JUL.2024 20:46:38

## EDR

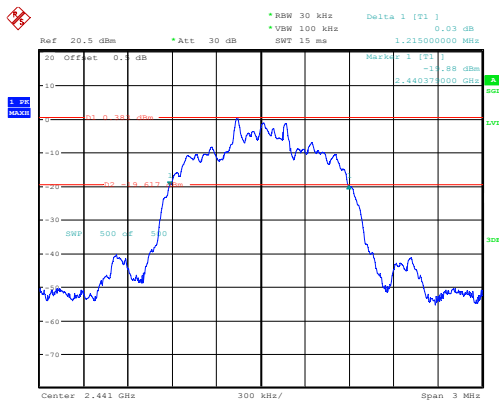
GFSK\_High 0.780MHz



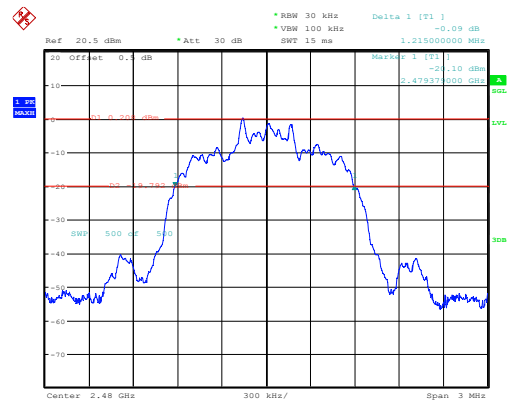
ProjectNo.:2403U81808E-RF Tester:Chin Qin  
Date: 24.JUL.2024 20:49:51

 $\pi/4$ -DQPSK\_Low 1.212MHz

ProjectNo.:2403U81808E-RF Tester:Chin Qin  
Date: 24.JUL.2024 20:58:05

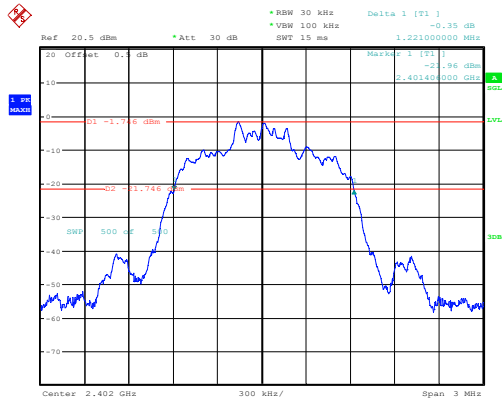
 $\pi/4$ -DQPSK\_Middle 1.215MHz

ProjectNo.:2403U81808E-RF Tester:Chin Qin  
Date: 24.JUL.2024 21:03:03

 $\pi/4$ -DQPSK\_High 1.215MHz

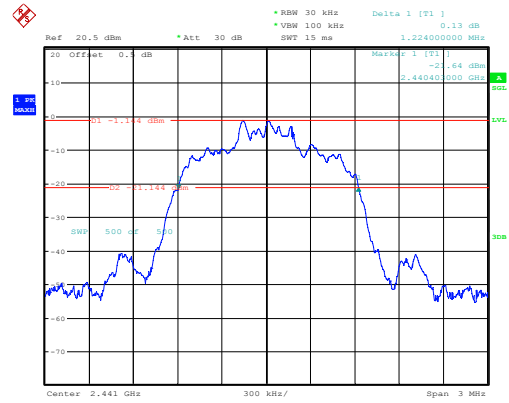
ProjectNo.:2403U81808E-RF Tester:Chin Qin  
Date: 24.JUL.2024 21:07:20

## 8DPSK\_Low 1.221MHz



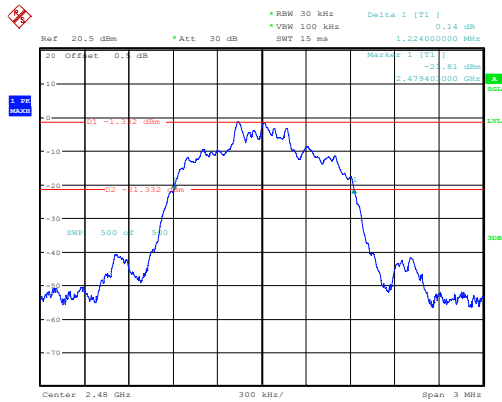
ProjectNo.:2403U81808E-RF Tester:Chin Qin  
Date: 24.JUL.2024 21:16:19

## 8DPSK\_Middle 1.224MHz



ProjectNo.:2403U81808E-RF Tester:Chin Qin  
Date: 24.JUL.2024 21:21:07

## 8DPSK\_High 1.224MHz



ProjectNo.:2403U81808E-RF Tester:Chin Qin  
Date: 24.JUL.2024 21:25:00

**99% Occupied Bandwidth****BDR**

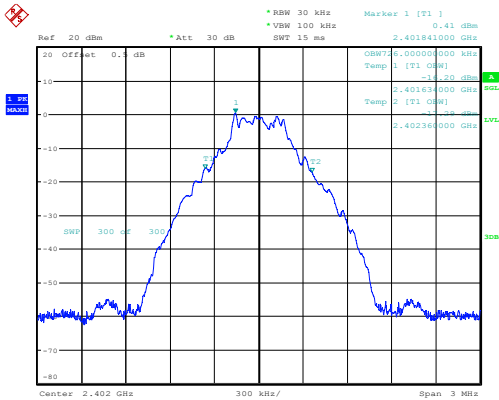
| Mode        | 99% OBW<br>(MHz) |
|-------------|------------------|
| GFSK_Low    | 0.726            |
| GFSK_Middle | 0.726            |
| GFSK_High   | 0.726            |

**EDR**

| Mode                  | 99% OBW<br>(MHz) |
|-----------------------|------------------|
| $\pi/4$ -DQPSK_Low    | 1.134            |
| $\pi/4$ -DQPSK_Middle | 1.134            |
| $\pi/4$ -DQPSK_High   | 1.131            |
| 8DPSK_Low             | 1.125            |
| 8DPSK_Middle          | 1.128            |
| 8DPSK_High            | 1.125            |

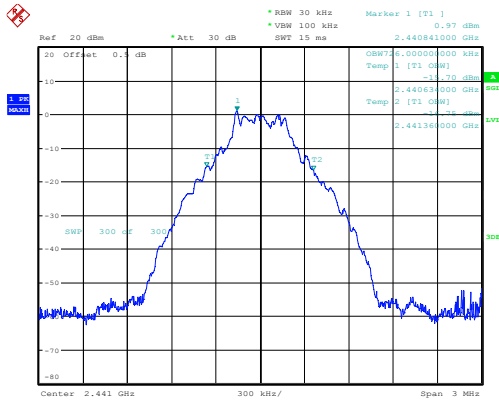
BDR

GFSK\_Low 0.726MHz



ProjectNo.:2403U81808E-RF Tester:Chin Qin  
Date: 24.JUL.2024 20:43:43

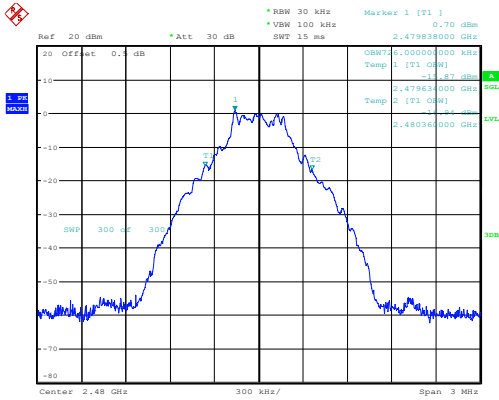
GFSK\_Middle 0.726MHz



ProjectNo.:2403U81808E-RF Tester:Chin Qin  
Date: 24.JUL.2024 20:47:15

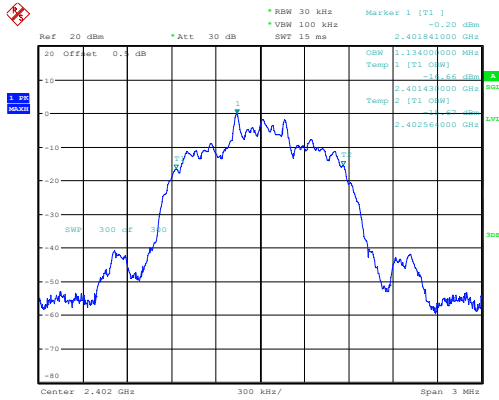
EDR

GFSK\_High 0.726MHz



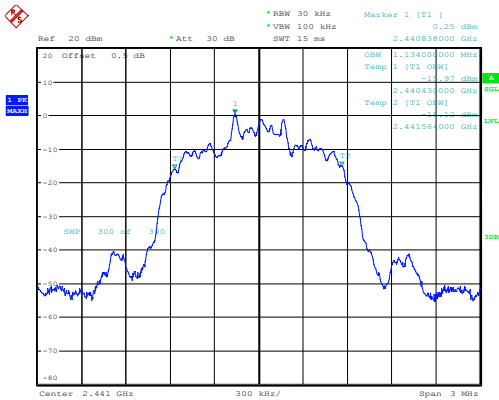
ProjectNo.:2403U81808E-RF Tester:Chin Qin  
Date: 24.JUL.2024 20:51:57

$\pi/4$ -DQPSK\_Low 1.134MHz



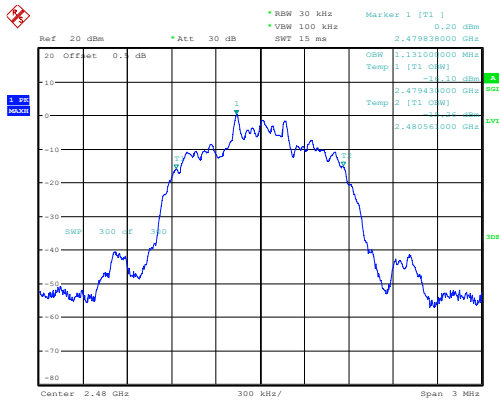
ProjectNo.:2403U81808E-RF Tester:Chin Qin  
Date: 24.JUL.2024 20:59:49

$\pi/4$ -DQPSK\_Middle 1.134MHz



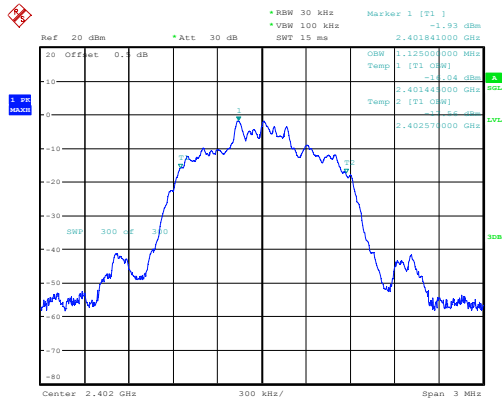
ProjectNo.:2403U81808E-RF Tester:Chin Qin  
Date: 24.JUL.2024 21:03:41

$\pi/4$ -DQPSK\_High 1.131MHz



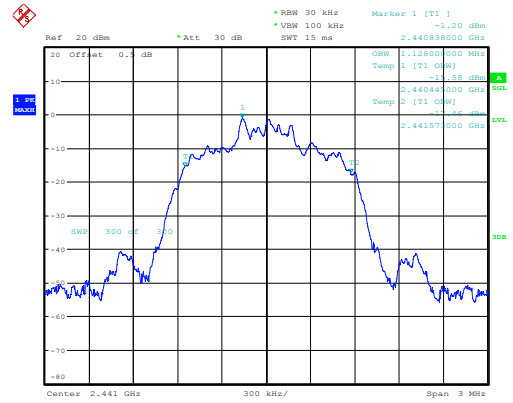
ProjectNo.:2403U81808E-RF Tester:Chin Qin  
Date: 24.JUL.2024 21:09:27

## 8DPSK\_Low 1.125MHz



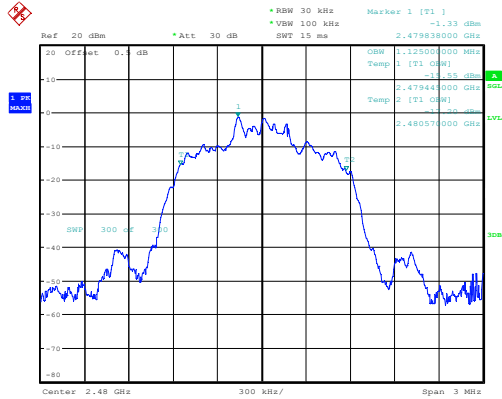
ProjectNo.:2403U81808E-RF Tester:Chin Qin  
Date: 24.JUL.2024 21:18:03

## 8DPSK\_Middle 1.128MHz



ProjectNo.:2403U81808E-RF Tester:Chin Qin  
Date: 24.JUL.2024 22:09:29

## 8DPSK\_High 1.125MHz



ProjectNo.:2403U81808E-RF Tester:Chin Qin  
Date: 24.JUL.2024 21:27:08

**Channel Separation****BDR**

| Mode        | Value<br>(MHz) | Limit<br>(MHz) | Result |
|-------------|----------------|----------------|--------|
| GFSK_Low    | 1.005          | 0.520          | Pass   |
| GFSK_Middle | 1.005          | 0.522          | Pass   |
| GFSK_High   | 1.002          | 0.520          | Pass   |

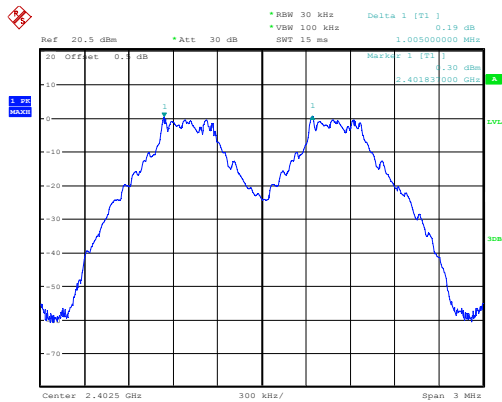
**EDR**

| Mode                  | Value<br>(MHz) | Limit<br>(MHz) | Result |
|-----------------------|----------------|----------------|--------|
| $\pi/4$ -DQPSK_Low    | 0.999          | 0.808          | Pass   |
| $\pi/4$ -DQPSK_Middle | 0.999          | 0.810          | Pass   |
| $\pi/4$ -DQPSK_High   | 0.999          | 0.810          | Pass   |
| 8DPSK_Low             | 0.999          | 0.814          | Pass   |
| 8DPSK_Middle          | 0.999          | 0.816          | Pass   |
| 8DPSK_High            | 1.002          | 0.816          | Pass   |



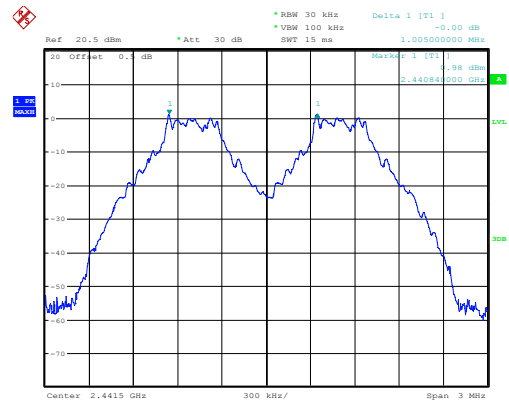
## BDR

GFSK\_Low 1.005MHz



ProjectNo.:2403U81808E-RF Tester:Chin Qin  
Date: 24.JUL.2024 20:45:12

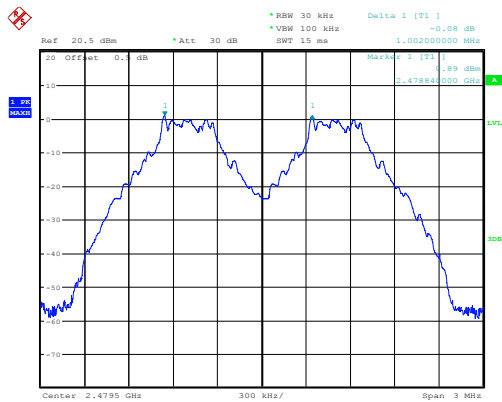
GFSK\_Middle 1.005MHz



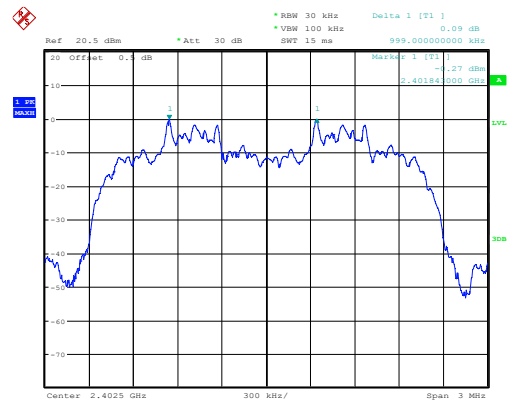
ProjectNo.:2403U81808E-RF Tester:Chin Qin  
Date: 24.JUL.2024 20:48:32

## EDR

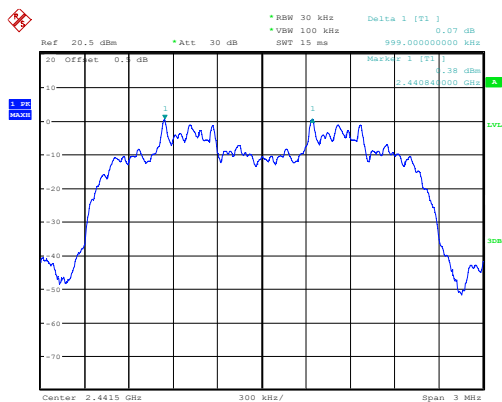
GFSK\_High 1.002MHz



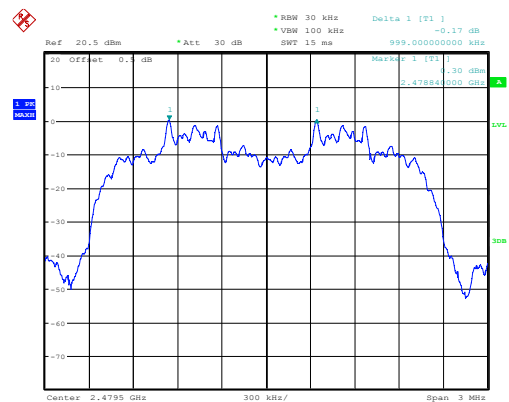
ProjectNo.:2403U81808E-RF Tester:Chin Qin  
Date: 24.JUL.2024 20:53:52

 $\pi/4$ -DQPSK\_Low 0.999MHz

ProjectNo.:2403U81808E-RF Tester:Chin Qin  
Date: 24.JUL.2024 21:01:02

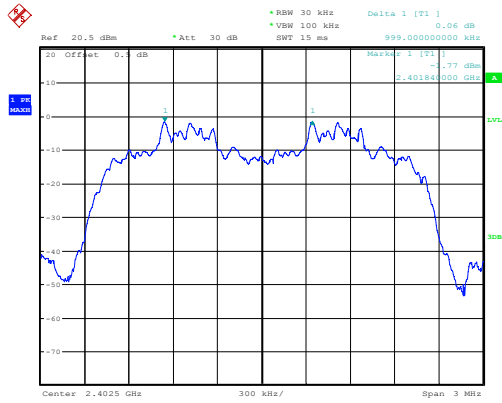
 $\pi/4$ -DQPSK\_Middle 0.999MHz

ProjectNo.:2403U81808E-RF Tester:Chin Qin  
Date: 24.JUL.2024 21:06:01

 $\pi/4$ -DQPSK\_High 0.999MHz

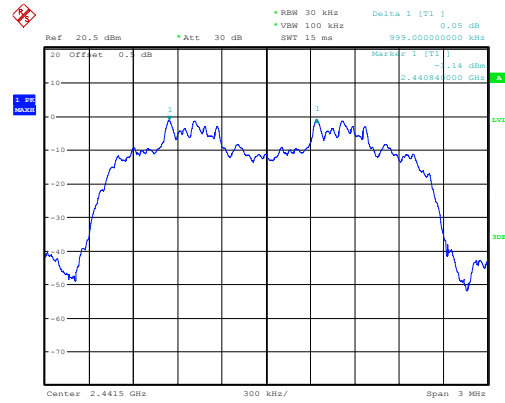
ProjectNo.:2403U81808E-RF Tester:Chin Qin  
Date: 24.JUL.2024 21:12:03

## 8DPSK\_Low 0.999MHz



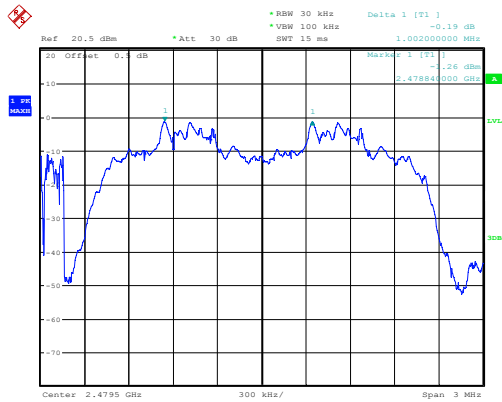
ProjectNo.:2403U81808E-RF Tester:Chin Qin  
Date: 24.JUL.2024 21:19:47

## 8DPSK\_Middle 0.999MHz



ProjectNo.:2403U81808E-RF Tester:Chin Qin  
Date: 24.JUL.2024 21:23:47

## 8DPSK\_High 1.002MHz



ProjectNo.:2403U81808E-RF Tester:Chin Qin  
Date: 24.JUL.2024 21:28:24

**Number of Hopping Frequency****BDR**

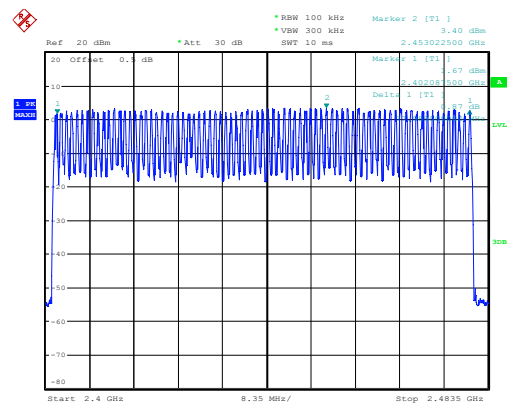
| Mode         | Value | Limit | Result |
|--------------|-------|-------|--------|
| GFSK_Hopping | 79    | 15    | Pass   |

**EDR**

| Mode                   | Value | Limit | Result |
|------------------------|-------|-------|--------|
| $\pi/4$ -DQPSK_Hopping | 79    | 15    | Pass   |
| 8DPSK_Hopping          | 79    | 15    | Pass   |

BDR

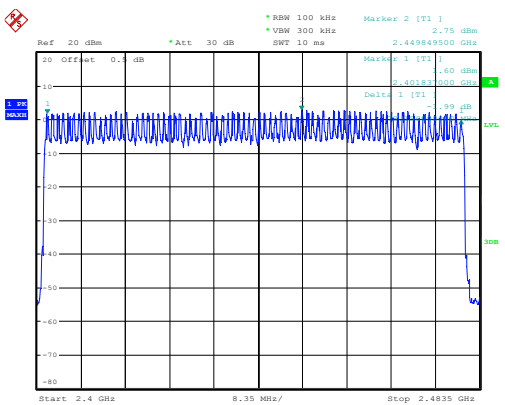
GFSK\_Hopping 79



ProjectNo.:2403U81808E-RF Tester:Chin Qin  
Date: 24.JUL.2024 21:35:19

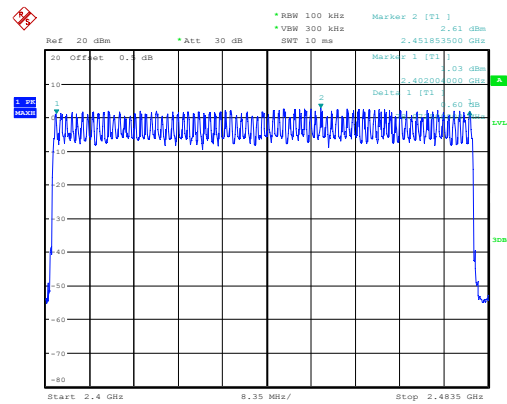
EDR

$\pi/4$ -DQPSK\_Hopping 79



ProjectNo.:2403U81808E-RF Tester:Chin Qin  
Date: 24.JUL.2024 21:42:04

8DPSK\_Hopping 79



ProjectNo.:2403U81808E-RF Tester:Chin Qin  
Date: 24.JUL.2024 21:49:19

**Time of Occupancy (dwell time)****BDR**

| Mode             | Pulse width<br>(ms) | Dwell time<br>(s) | Limit<br>(s) | Result |
|------------------|---------------------|-------------------|--------------|--------|
| GFSK_Hopping_DH1 | 0.396               | 0.127             | 0.400        | Pass   |
| GFSK_Hopping_DH3 | 1.660               | 0.266             | 0.400        | Pass   |
| GFSK_Hopping_DH5 | 2.932               | 0.313             | 0.400        | Pass   |

**EDR**

| Mode                                | Pulse width<br>(ms) | Dwell time<br>(s) | Limit<br>(s) | Result |
|-------------------------------------|---------------------|-------------------|--------------|--------|
| $\pi/4$ -<br>DQPSK_Hopping_2DH<br>1 | 0.403               | 0.129             | 0.400        | Pass   |
| $\pi/4$ -<br>DQPSK_Hopping_2DH<br>3 | 1.663               | 0.266             | 0.400        | Pass   |
| $\pi/4$ -<br>DQPSK_Hopping_2DH<br>5 | 2.932               | 0.313             | 0.400        | Pass   |
| 8DPSK_Hopping_3DH1                  | 0.403               | 0.129             | 0.400        | Pass   |
| 8DPSK_Hopping_3DH3                  | 1.663               | 0.266             | 0.400        | Pass   |
| 8DPSK_Hopping_3DH5                  | 2.937               | 0.313             | 0.400        | Pass   |

**Note:**

**DH1:** Dwell time = Pulse width (ms)  $\times$  (1600/2/79)  $\times$  31.6 s

**DH3:** Dwell time = Pulse width (ms)  $\times$  (1600/4/79)  $\times$  31.6 s

**DH5:** Dwell time = Pulse width (ms)  $\times$  (1600/6/79)  $\times$  31.6 s

**2DH1:** Dwell time = Pulse width (ms)  $\times$  (1600/2/79)  $\times$  31.6 s

**2DH3:** Dwell time = Pulse width (ms)  $\times$  (1600/4/79)  $\times$  31.6 s

**2DH5:** Dwell time = Pulse width (ms)  $\times$  (1600/6/79)  $\times$  31.6 s

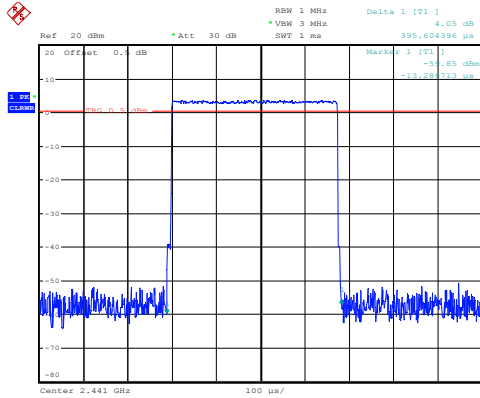
**3DH1:** Dwell time = Pulse width (ms)  $\times$  (1600/2/79)  $\times$  31.6 s

**3DH3:** Dwell time = Pulse width (ms)  $\times$  (1600/4/79)  $\times$  31.6 s

**3DH5:** Dwell time = Pulse width (ms)  $\times$  (1600/6/79)  $\times$  31.6 s

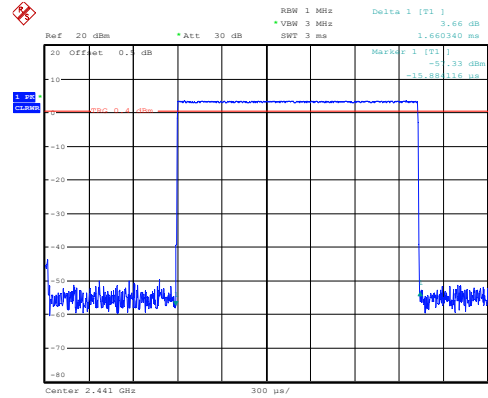
## BDR

GFSK\_Hopping\_DH1 0.396ms



ProjectNo.:2403U81808E-RF Tester:Chin Qin  
Date: 24.JUL.2024 21:50:42

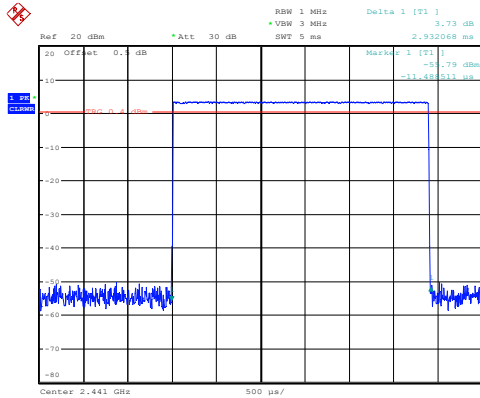
GFSK\_Hopping\_DH3 1.660ms



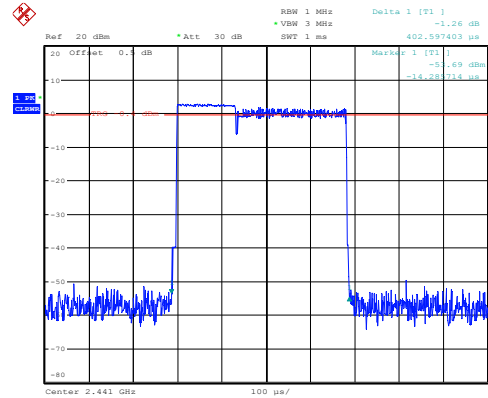
ProjectNo.:2403U81808E-RF Tester:Chin Qin  
Date: 24.JUL.2024 21:52:00

## EDR

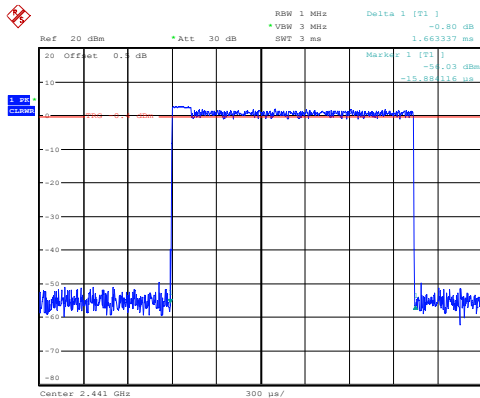
GFSK\_Hopping\_DH5 2.932ms



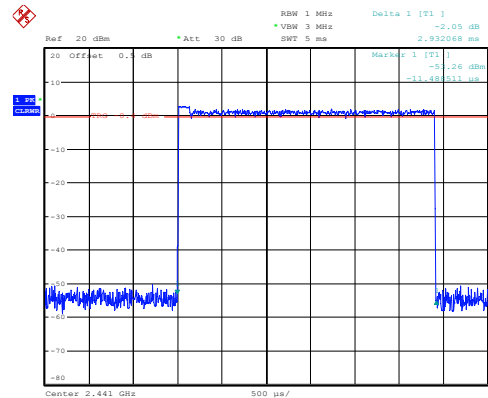
ProjectNo.:2403U81808E-RF Tester:Chin Qin  
Date: 24.JUL.2024 21:52:47

 $\pi/4$ -DQPSK\_Hopping\_2DH1 0.403ms

ProjectNo.:2403U81808E-RF Tester:Chin Qin  
Date: 24.JUL.2024 21:54:13

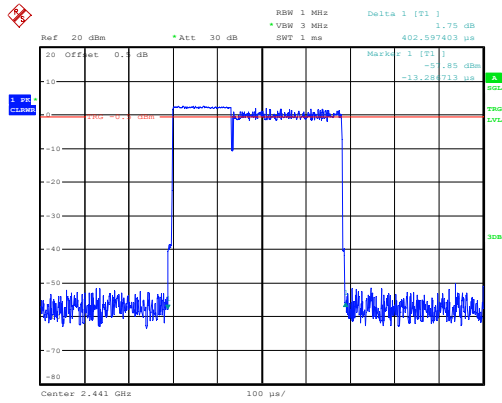
 $\pi/4$ -DQPSK\_Hopping\_2DH3 1.663ms

ProjectNo.:2403U81808E-RF Tester:Chin Qin  
Date: 24.JUL.2024 21:55:10

 $\pi/4$ -DQPSK\_Hopping\_2DH5 2.932ms

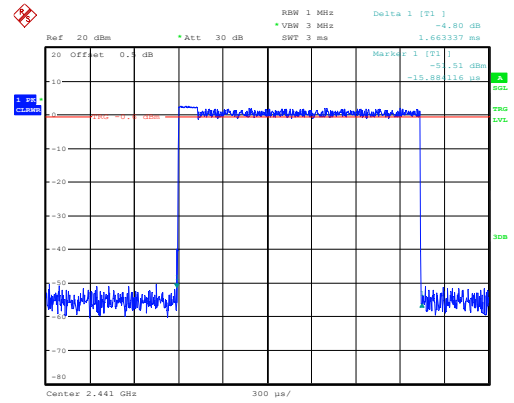
ProjectNo.:2403U81808E-RF Tester:Chin Qin  
Date: 24.JUL.2024 22:05:51

## 8DPSK\_Hopping\_3DH1 0.403ms



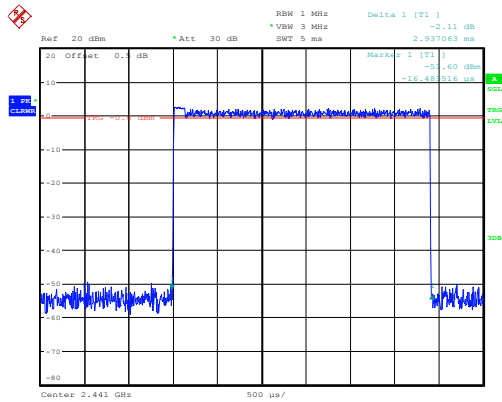
ProjectNo.:2403U81808E-RF Tester:Chin Qin  
Date: 24.JUL.2024 22:01:09

## 8DPSK\_Hopping\_3DH3 1.663ms



ProjectNo.:2403U81808E-RF Tester:Chin Qin  
Date: 24.JUL.2024 22:01:45

## 8DPSK\_Hopping\_3DH5 2.937ms



ProjectNo.:2403U81808E-RF Tester:Chin Qin  
Date: 24.JUL.2024 22:03:00

**Maximum Conducted Output Power****BDR**

| Mode        | Value<br>(dBm) | Limit<br>(dBm) | Result |
|-------------|----------------|----------------|--------|
| GFSK_Low    | 3.05           | 21.00          | Pass   |
| GFSK_Middle | 3.51           | 21.00          | Pass   |
| GFSK_High   | 3.35           | 21.00          | Pass   |

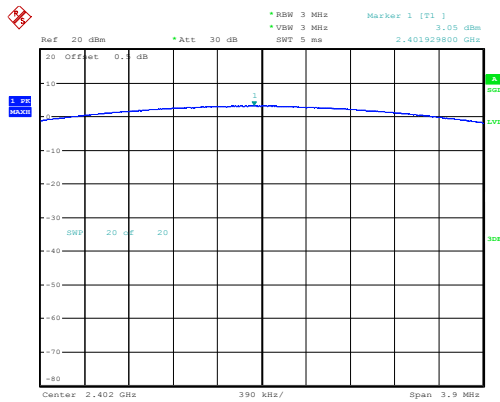
**EDR**

| Mode                  | Value<br>(dBm) | Limit<br>(dBm) | Result |
|-----------------------|----------------|----------------|--------|
| $\pi/4$ -DQPSK_Low    | 2.10           | 21.00          | Pass   |
| $\pi/4$ -DQPSK_Middle | 2.67           | 21.00          | Pass   |
| $\pi/4$ -DQPSK_High   | 2.46           | 21.00          | Pass   |
| 8DPSK_Low             | 1.94           | 21.00          | Pass   |
| 8DPSK_Middle          | 2.51           | 21.00          | Pass   |
| 8DPSK_High            | 2.32           | 21.00          | Pass   |



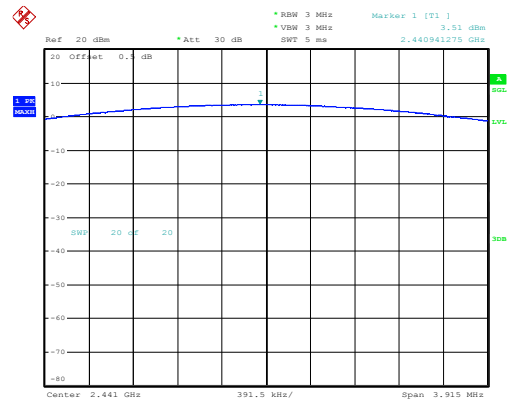
**BDR**

GFSK\_Low 3.05dBm



ProjectNo.:2403U91808E-RF Tester:Chin Qin  
Date: 24.JUL.2024 20:44:06

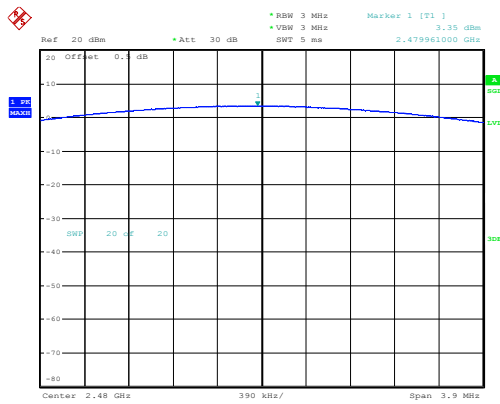
GFSK\_Middle 3.51dBm



ProjectNo.:2403U81808E-RF Tester:Chin Qin  
Date: 24.JUL.2024 20:47:30

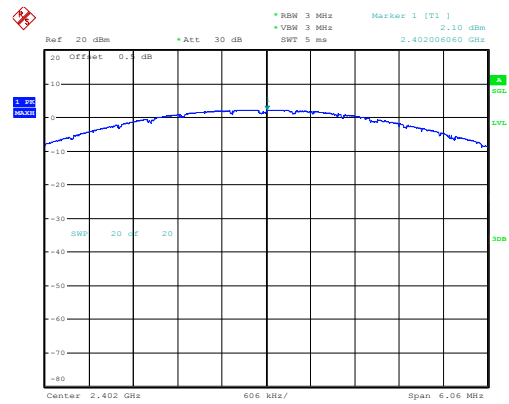
## EDR

GFSK\_High 3.35dBm



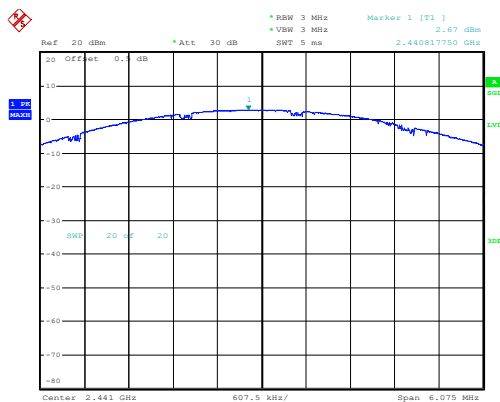
ProjectNo.:2403U81808E-RF Tester:Chin Qin  
Date: 24.JUL.2024 20:52:10

$\pi/4$ -DQPSK\_Low 2.10dBm



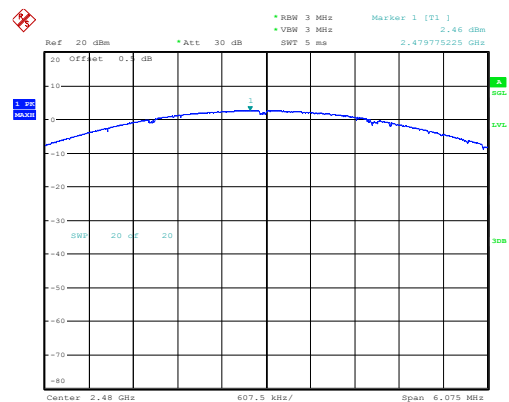
ProjectNo.:2403U81808E-RF Tester:Chin Qin  
Date: 24.JUL.2024 21:00:02

$\pi/4$ -DQPSK\_Middle 2.67dBm



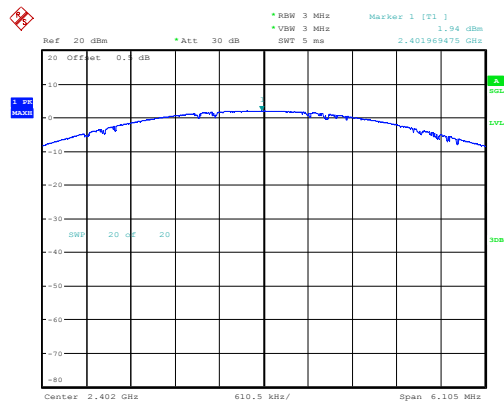
ProjectNo.:2403U81808E-RF Tester:Chin Qin  
Date: 24.JUL.2024 21:04:18

$\pi/4$ -DQPSK\_High 2.46dBm



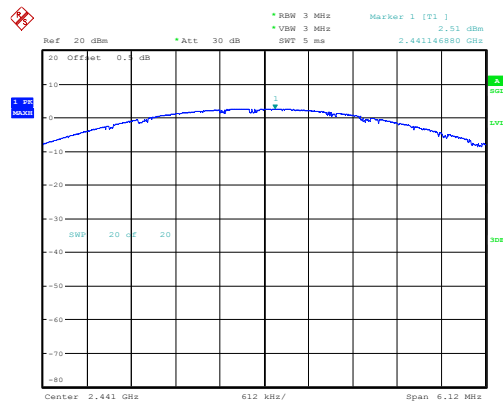
ProjectNo.:2403U81808E-RF Tester:Chin Qin  
Date: 24.JUL.2024 21:09:54

8DPSK\_Low 1.94dBm



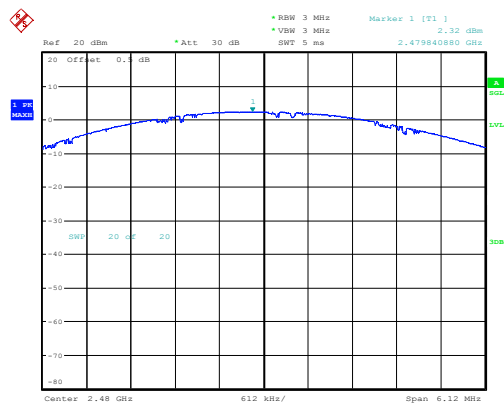
ProjectNo.:2403U81808E-RF Tester:Chin Qin  
Date: 24.JUL.2024 21:18:17

8DPSK\_Middle 2.51dBm



ProjectNo.:2403U81808E-RF Tester:Chin Qin  
Date: 24.JUL.2024 21:22:22

8DPSK\_High 2.32dBm



ProjectNo.:2403U81808E-RF Tester:Chin Qin  
Date: 24.JUL.2024 21:27:26

**100 kHz Bandwidth of Frequency Band Edge****BDR**

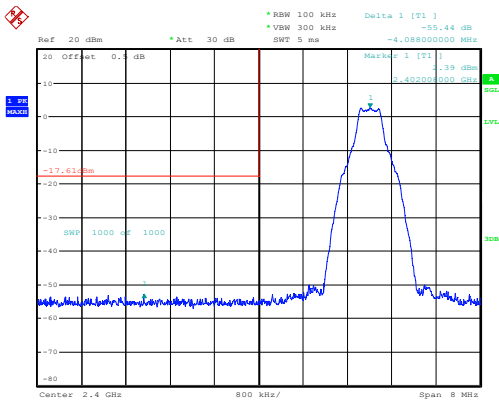
| Mode               | Value<br>(dB) | Limit<br>(dB) | Result |
|--------------------|---------------|---------------|--------|
| GFSK_Low           | 55.44         | 20.00         | Pass   |
| GFSK_High          | 56.18         | 20.00         | Pass   |
| GFSK_Hopping_Lower | 50.97         | 20.00         | Pass   |
| GFSK_Hopping_Upper | 55.58         | 20.00         | Pass   |

**EDR**

| Mode                         | Value<br>(dB) | Limit<br>(dB) | Result |
|------------------------------|---------------|---------------|--------|
| $\pi/4$ -DQPSK_Low           | 54.63         | 20.00         | Pass   |
| $\pi/4$ -DQPSK_High          | 54.81         | 20.00         | Pass   |
| $\pi/4$ -DQPSK_Hopping_Lower | 55.13         | 20.00         | Pass   |
| $\pi/4$ -DQPSK_Hopping_Upper | 55.28         | 20.00         | Pass   |
| 8DPSK_Low                    | 55.06         | 20.00         | Pass   |
| 8DPSK_High                   | 54.67         | 20.00         | Pass   |
| 8DPSK_Hopping_Lower          | 54.44         | 20.00         | Pass   |
| 8DPSK_Hopping_Upper          | 54.74         | 20.00         | Pass   |

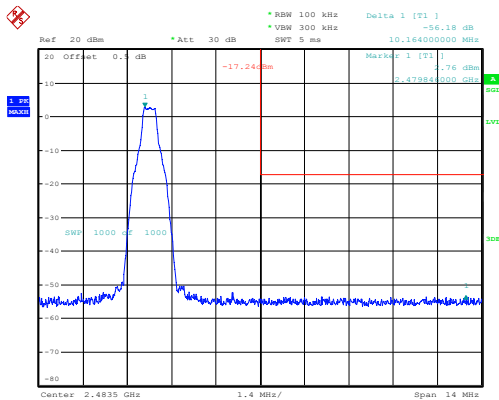
BDR

GFSK\_Low 55.44dB



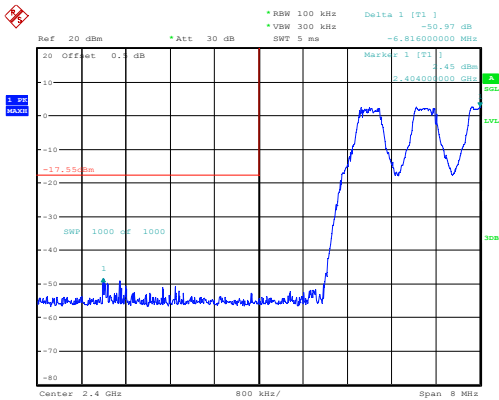
ProjectNo.:2403U81808E-RF Tester:Chin Qin  
Date: 24.JUL.2024 20:43:03

GFSK\_High 56.18dB



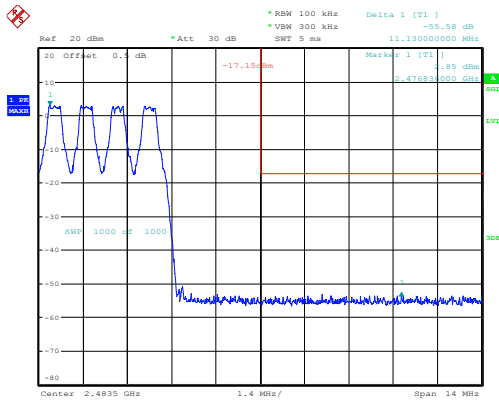
ProjectNo.:2403U81808E-RF Tester:Chin Qin  
Date: 24.JUL.2024 20:51:19

GFSK\_Hopping\_Lower 50.97dB



ProjectNo.:2403U81808E-RF Tester:Chin Qin  
Date: 24.JUL.2024 20:55:12

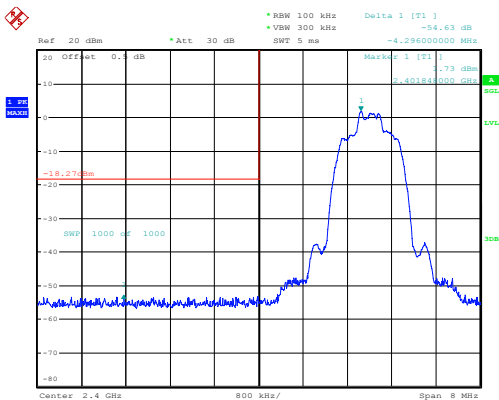
GFSK\_Hopping\_Upper 55.58dB



ProjectNo.:2403U81808E-RF Tester:Chin Qin  
Date: 24.JUL.2024 20:56:51

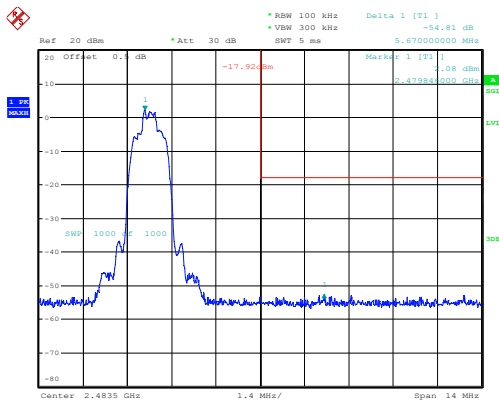
EDR

$\pi/4$ -DQPSK\_Low 54.63dB

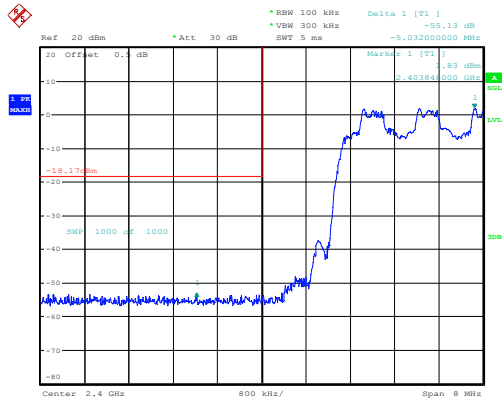


ProjectNo.:2403U81808E-RF Tester:Chin Qin  
Date: 24.JUL.2024 20:59:09

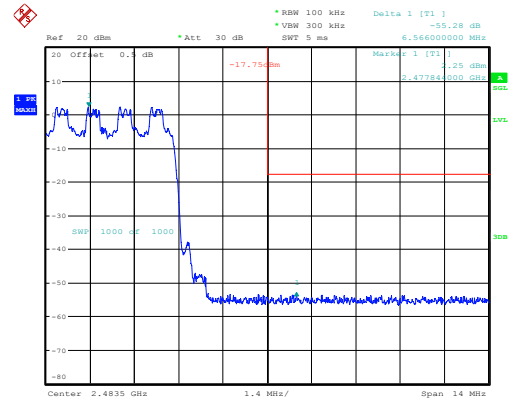
$\pi/4$ -DQPSK\_High 54.81dB



ProjectNo.:2403U81808E-RF Tester:Chin Qin  
Date: 24.JUL.2024 21:08:49

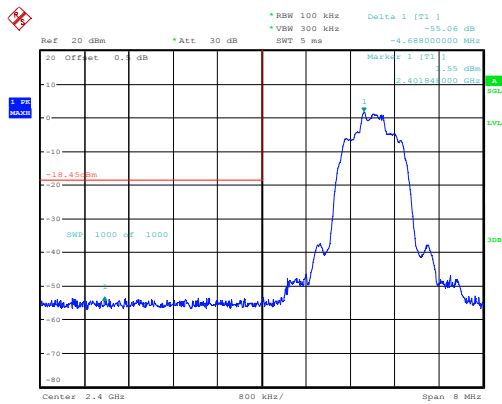
$\pi/4$ -DQPSK\_Hopping\_Lower 55.13dB

ProjectNo.:2403U81808E-RF Tester:Chin Qin  
Date: 24.JUL.2024 21:13:29

 $\pi/4$ -DQPSK\_Hopping\_Upper 55.28dB

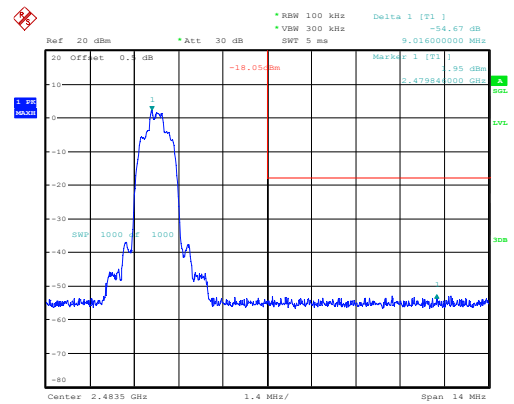
ProjectNo.:2403U81808E-RF Tester:Chin Qin  
Date: 24.JUL.2024 21:15:18

## 8DPSK\_Low 55.06dB



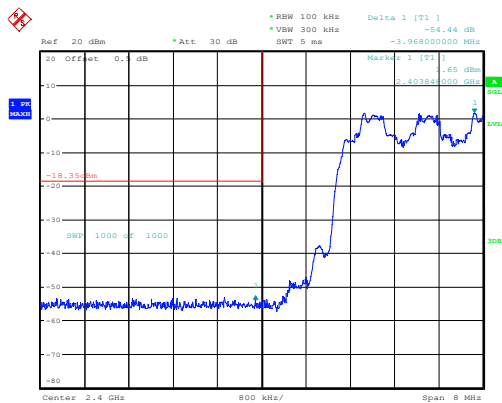
ProjectNo.:2403U81808E-RF Tester:Chin Qin  
Date: 24.JUL.2024 21:17:23

## 8DPSK\_High 54.67dB



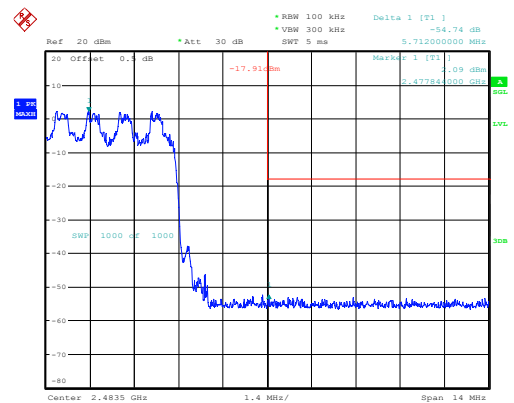
ProjectNo.:2403U81808E-RF Tester:Chin Qin  
Date: 24.JUL.2024 21:26:29

## 8DPSK\_Hopping\_Lower 54.44dB



ProjectNo.:2403U81808E-RF Tester:Chin Qin  
Date: 24.JUL.2024 21:29:45

## 8DPSK\_Hopping\_Upper 54.74dB



ProjectNo.:2403U81808E-RF Tester:Chin Qin  
Date: 24.JUL.2024 21:31:27