

FCC Part 15.247

Test Information:

Serial No.:	2KI0-3	Test Date:	2024/04/25~2024/04/29
Test Site:	RF	Test Mode:	Transmitting
Tester:	Chin Qin	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	25.7-26.8	Relative Humidity: (%)	51-53	ATM Pressure: (kPa)	100.6-100.9
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Test Equipment List and Details:

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

100 kHz Bandwidth of Frequency Band Edge**MAIN ANT :****BDR**

Mode	Value (dB)	Limit (dB)	Result
GFSK_Low	52.16	20.00	Pass
GFSK_High	41.00	20.00	Pass
GFSK_Hopping_Lower	52.15	20.00	Pass
GFSK_Hopping_Upper	52.57	20.00	Pass

EDR

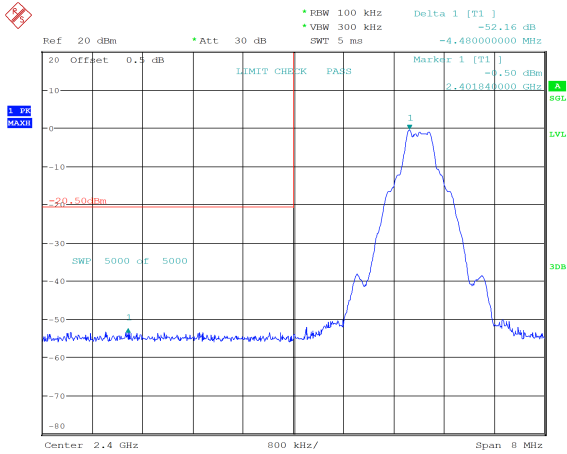
Mode	Value (dB)	Limit (dB)	Result
$\pi/4$ -DQPSK_Low	47.93	20.00	Pass
$\pi/4$ -DQPSK_High	51.99	20.00	Pass
$\pi/4$ -DQPSK_Hopping_Lower	51.69	20.00	Pass
$\pi/4$ -DQPSK_Hopping_Upper	52.05	20.00	Pass
8DPSK_Low	50.98	20.00	Pass
8DPSK_High	51.36	20.00	Pass
8DPSK_Hopping_Lower	51.32	20.00	Pass
8DPSK_Hopping_Upper	51.59	20.00	Pass

AUX ANT:**BDR**

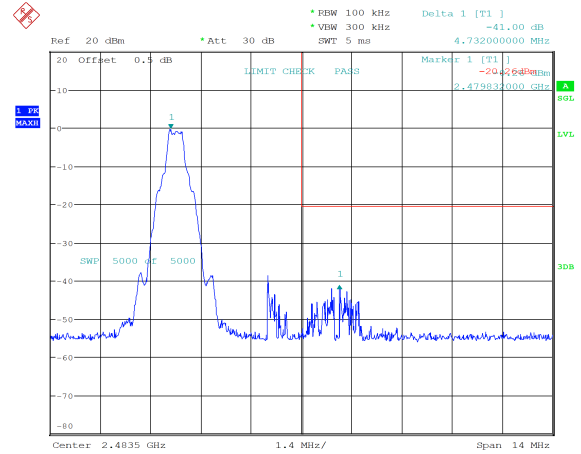
Mode	Value (dB)	Limit (dB)	Result
GFSK_Low	51.48	20.00	Pass
GFSK_High	52.38	20.00	Pass
GFSK_Hopping_Lower	52.32	20.00	Pass
GFSK_Hopping_Upper	52.90	20.00	Pass

EDR

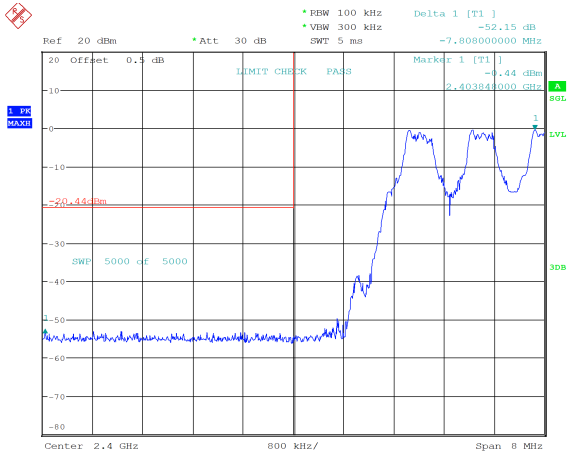
Mode	Value (dB)	Limit (dB)	Result
$\pi/4$ -DQPSK_Low	51.94	20.00	Pass
$\pi/4$ -DQPSK_High	51.72	20.00	Pass
$\pi/4$ -DQPSK_Hopping_Lower	51.48	20.00	Pass
$\pi/4$ -DQPSK_Hopping_Upper	51.80	20.00	Pass
8DPSK_Low	50.19	20.00	Pass
8DPSK_High	51.44	20.00	Pass
8DPSK_Hopping_Lower	50.82	20.00	Pass
8DPSK_Hopping_Upper	51.89	20.00	Pass

**MAIN ANT:
BDR****GFSK_Low 52.16 dB**

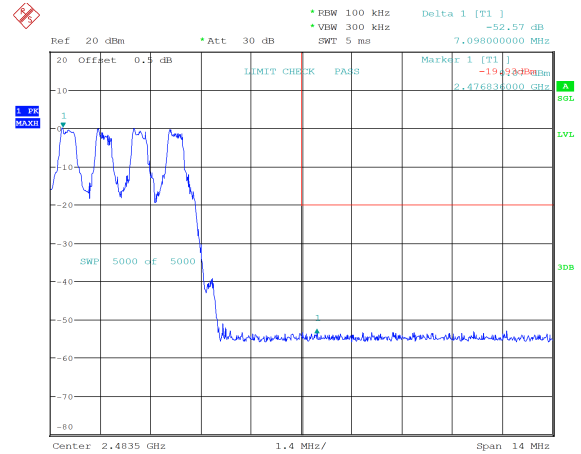
ProjectNo.:2403S72396E-RF Tester:Chin Qin
Date: 25.APR.2024 22:21:31

GFSK_High 41.00 dB

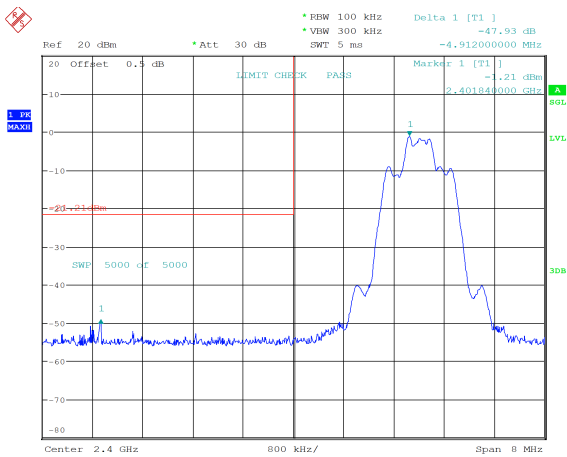
ProjectNo.:2403S72396E-RF Tester:Chin Qin
Date: 25.APR.2024 23:45:23

GFSK_Hopping_Lower 52.15 dB

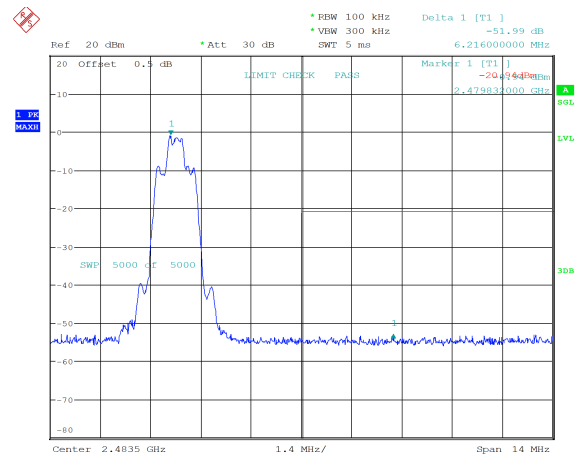
ProjectNo.:2403S72396E-RF Tester:Chin Qin
Date: 25.APR.2024 22:39:31

GFSK_Hopping_Upper 52.57 dB

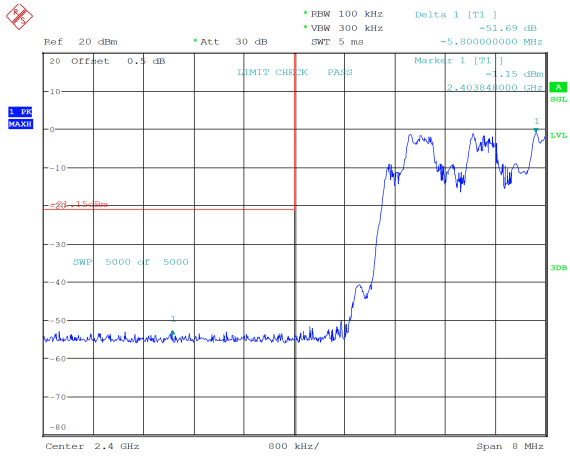
ProjectNo.:2403S72396E-RF Tester:Chin Qin
Date: 25.APR.2024 22:43:55

EDR **$\pi/4$ -DQPSK_Low 47.93 dB**

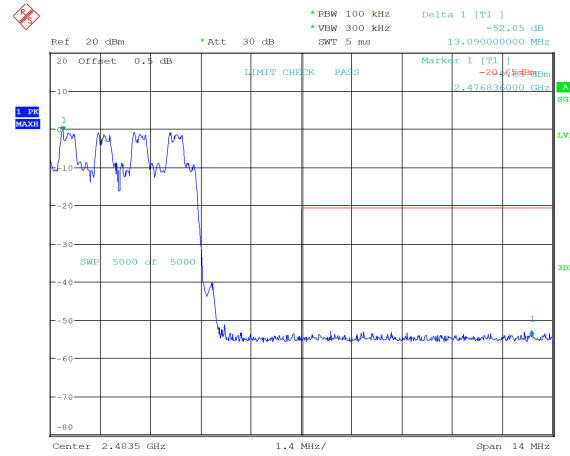
ProjectNo.:2403S72396E-RF Tester:Chin Qin
Date: 25.APR.2024 22:48:40

 $\pi/4$ -DQPSK_High 51.99 dB

ProjectNo.:2403S72396E-RF Tester:Chin Qin
Date: 25.APR.2024 23:49:56

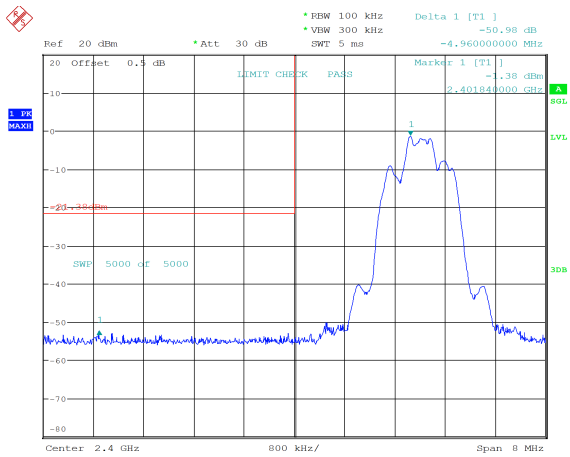
$\pi/4$ -DQPSK_Hopping_Lower 51.69 dB

ProjectNo.:2403S72396E-RF Tester:Chin Qin
Date: 25.APR.2024 23:04:19

 $\pi/4$ -DQPSK_Hopping_Upper 52.05 dB

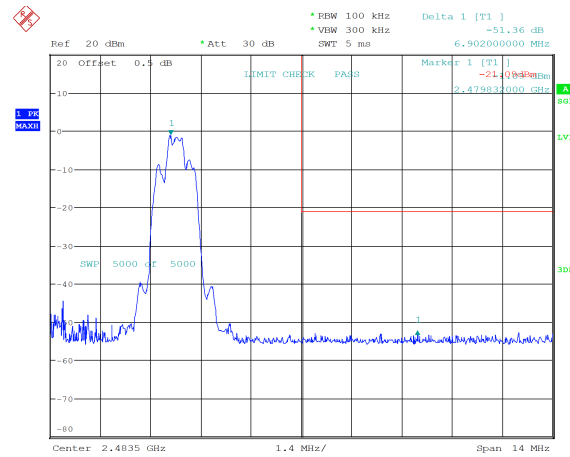
ProjectNo.:2403S72396E-RF Tester:Chin Qin
Date: 25.APR.2024 23:09:18

8DPSK_Low 50.98 dB



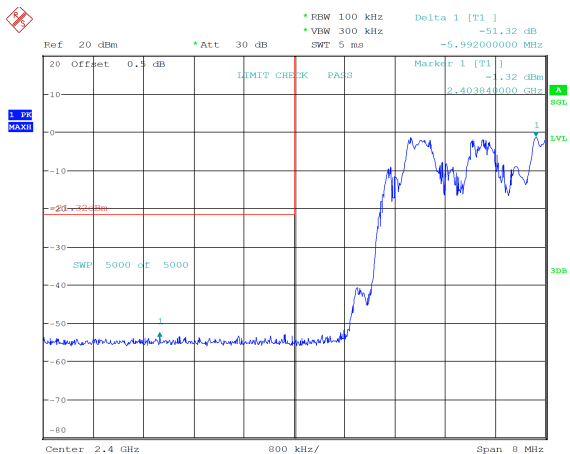
ProjectNo.:2403S72396E-RF Tester:Chin Qin
Date: 25.APR.2024 23:12:59

8DPSK_High 51.36 dB



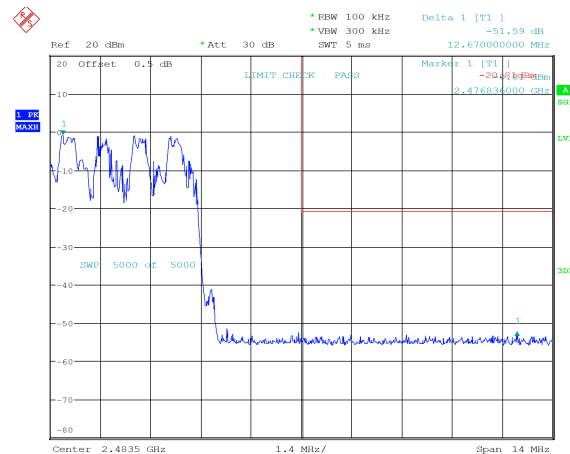
ProjectNo.:2403S72396E-RF Tester:Chin Qin
Date: 25.APR.2024 23:25:25

8DPSK_Hopping_Lower 51.32 dB

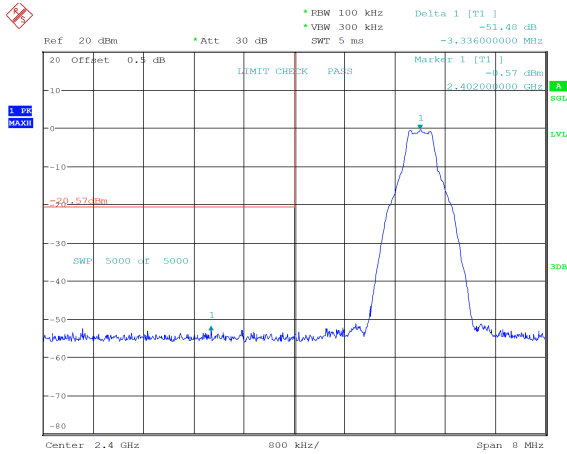


ProjectNo.:2403S72396E-RF Tester:Chin Qin
Date: 25.APR.2024 23:31:52

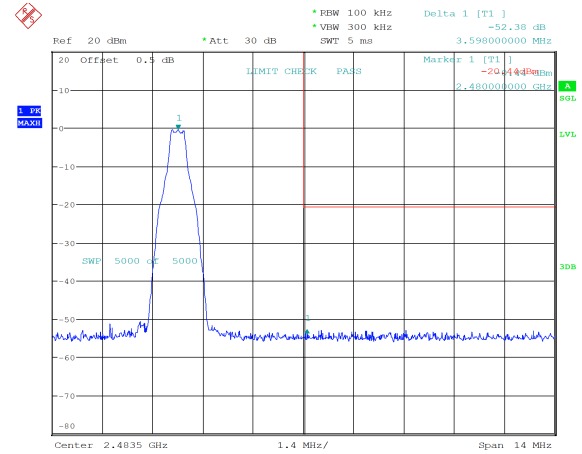
8DPSK_Hopping_Upper 51.59 dB



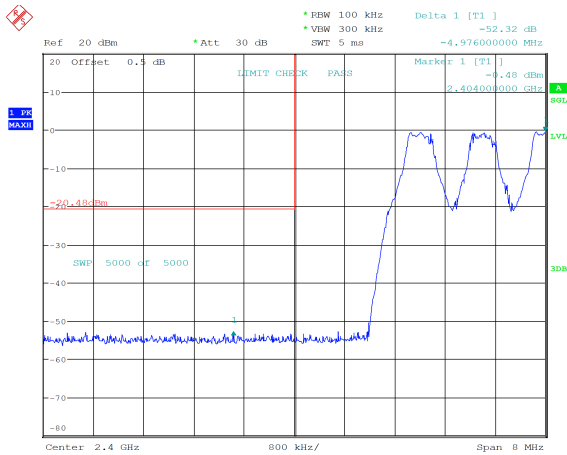
ProjectNo.:2403S72396E-RF Tester:Chin Qin
Date: 25.APR.2024 23:36:29

**AUX ANT:
BDR****GFSK_Low 51.48 dB**

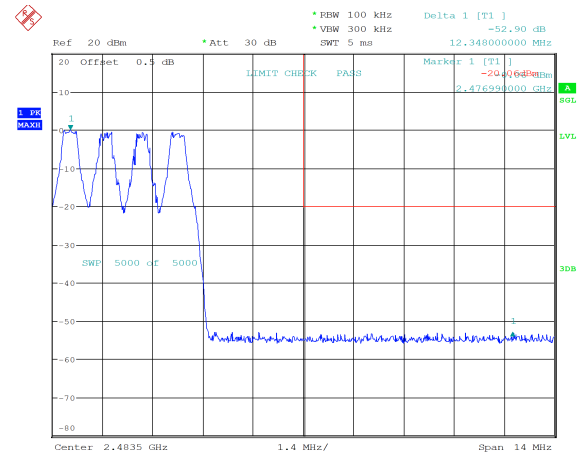
ProjectNo.:2403S72396E-RF Tester:Chin Qin
Date: 29.APR.2024 00:02:28

GFSK_High 52.38 dB

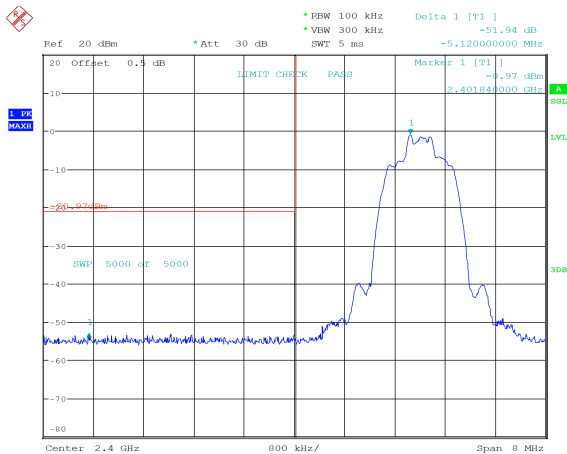
ProjectNo.:2403S72396E-RF Tester:Chin Qin
Date: 29.APR.2024 00:15:29

GFSK_Hopping_Lower 52.32 dB

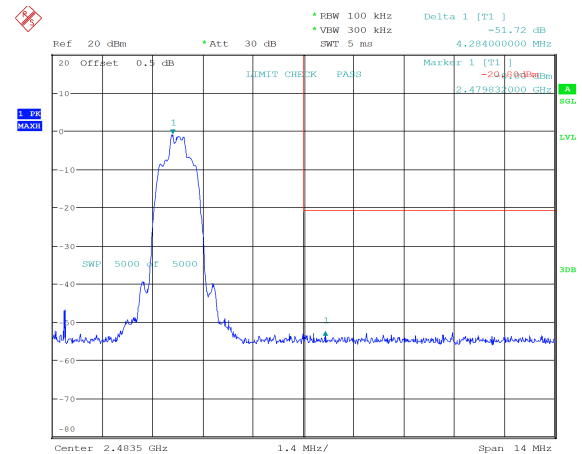
ProjectNo.:2403S72396E-RF Tester:Chin Qin
Date: 29.APR.2024 00:24:07

GFSK_Hopping_Upper 52.90 dB

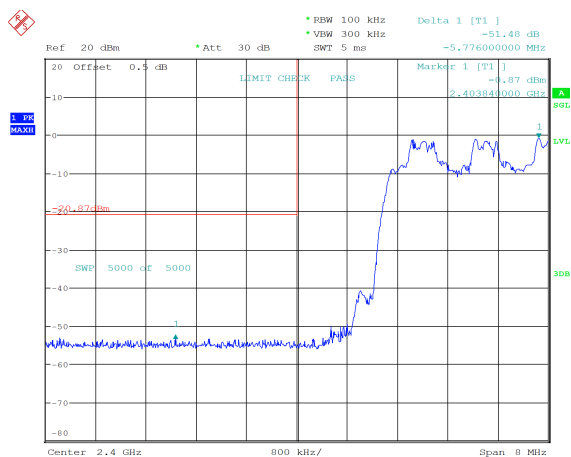
ProjectNo.:2403S72396E-RF Tester:Chin Qin
Date: 29.APR.2024 00:28:28

EDR **$\pi/4$ -DQPSK_Low 51.94 dB**

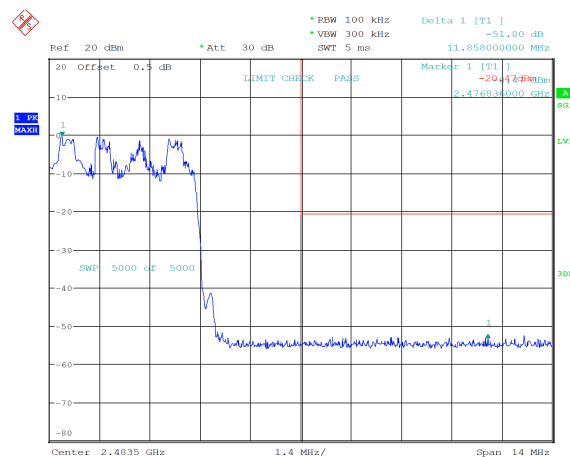
ProjectNo.:2403S72396E-RF Tester:Chin Qin
Date: 29.APR.2024 00:32:13

 $\pi/4$ -DQPSK_High 51.72 dB

ProjectNo.:2403S72396E-RF Tester:Chin Qin
Date: 29.APR.2024 00:47:37

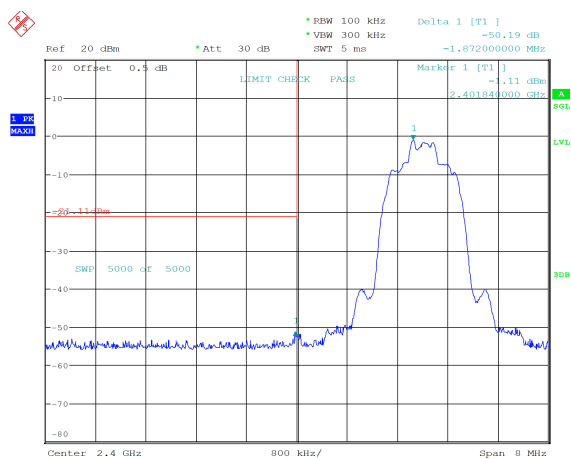
$\pi/4$ -DQPSK_Hopping_Lower 51.48 dB

ProjectNo.:2403S72396E-RF Tester:Chin Qin
Date: 29.APR.2024 00:54:33

 $\pi/4$ -DQPSK_Hopping_Upper 51.80 dB

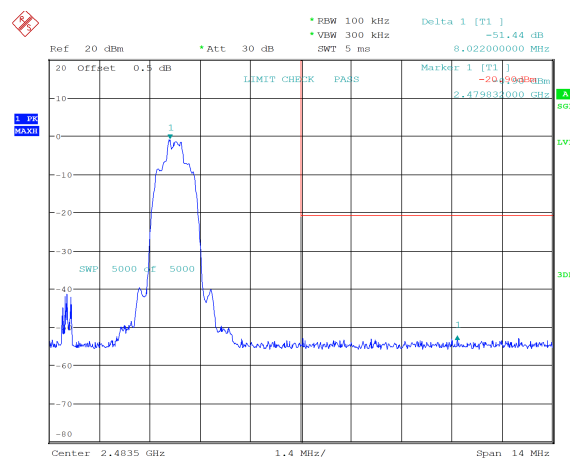
ProjectNo.:2403S72396E-RF Tester:Chin Qin
Date: 29.APR.2024 01:00:05

8DPSK_Low 50.19 dB



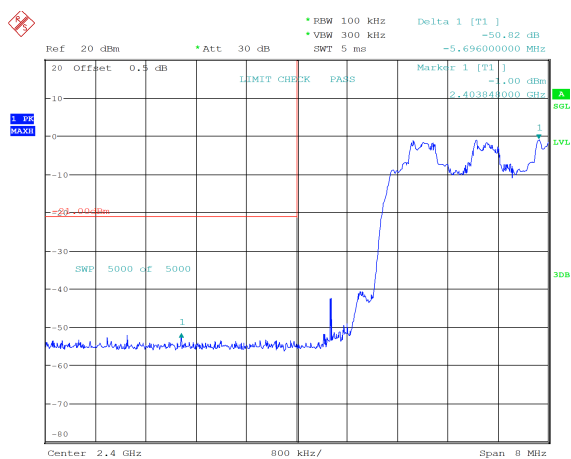
ProjectNo.:2403S72396E-RF Tester:Chin Qin
Date: 29.APR.2024 20:01:38

8DPSK_High 51.44 dB



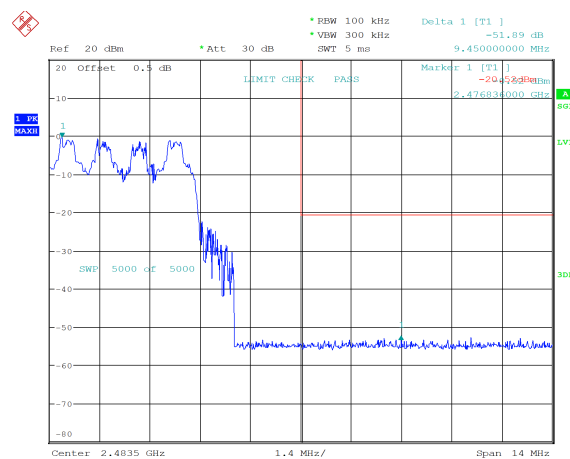
ProjectNo.:2403S72396E-RF Tester:Chin Qin
Date: 29.APR.2024 20:14:03

8DPSK_Hopping_Lower 50.82 dB



ProjectNo.:2403S72396E-RF Tester:Chin Qin
Date: 29.APR.2024 20:19:47

8DPSK_Hopping_Upper 51.89 dB



ProjectNo.:2403S72396E-RF Tester:Chin Qin
Date: 29.APR.2024 20:25:15

20 dB Emission Bandwidth**MAIN ANT:****BDR**

Mode	Value (MHz)
GFSK_Low	0.824
GFSK_Middle	0.827
GFSK_High	0.824

EDR

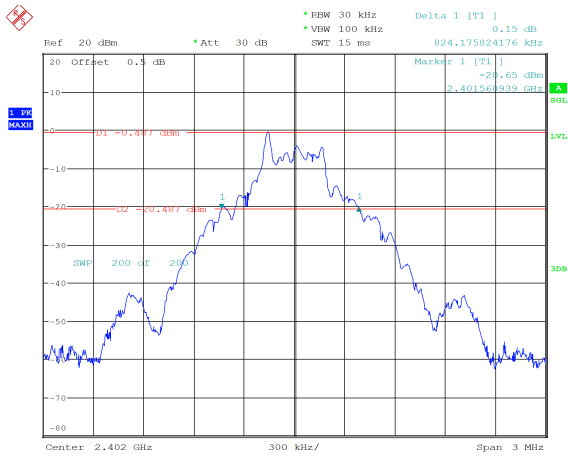
Mode	Value (MHz)
$\pi/4$ -DQPSK_Low	1.115
$\pi/4$ -DQPSK_Middle	1.115
$\pi/4$ -DQPSK_High	1.118
8DPSK_Low	1.163
8DPSK_Middle	1.166
8DPSK_High	1.166

AUX ANT:**BDR**

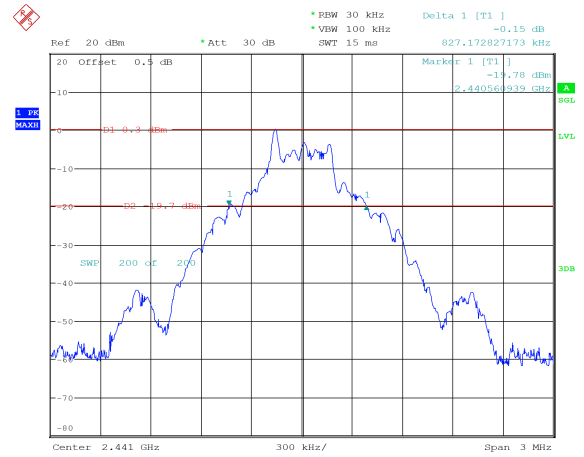
Mode	Value (MHz)
GFSK_Low	0.788
GFSK_Middle	0.785
GFSK_High	0.785

EDR

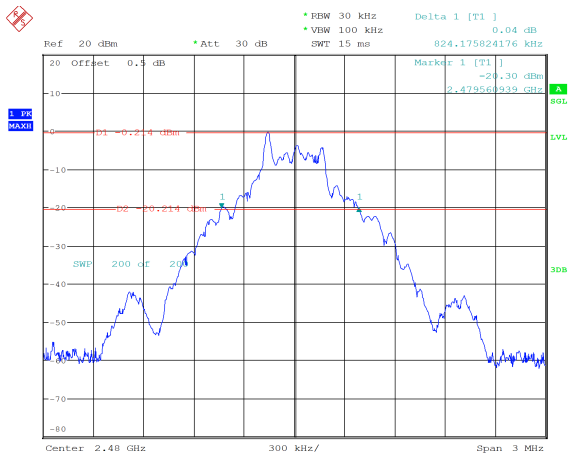
Mode	Value (MHz)
$\pi/4$ -DQPSK_Low	1.214
$\pi/4$ -DQPSK_Middle	1.214
$\pi/4$ -DQPSK_High	1.214
8DPSK_Low	0.439
8DPSK_Middle	0.433
8DPSK_High	0.436

**MAIN ANT:
BDR****GFSK_Low 0.824 MHz**

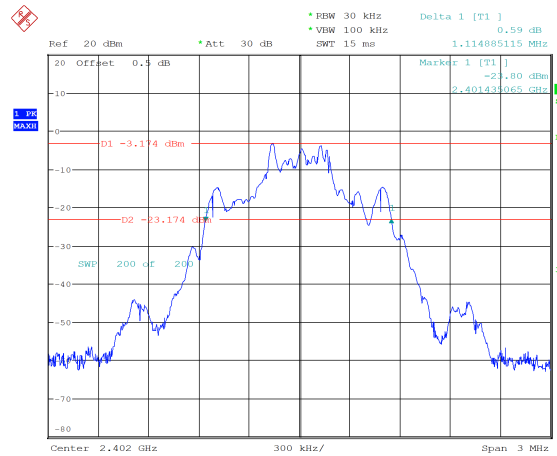
ProjectNo.:2403S72396E-RF Tester:Chin Qin
Date: 25.APR.2024 22:18:39

GFSK_Middle 0.827 MHz

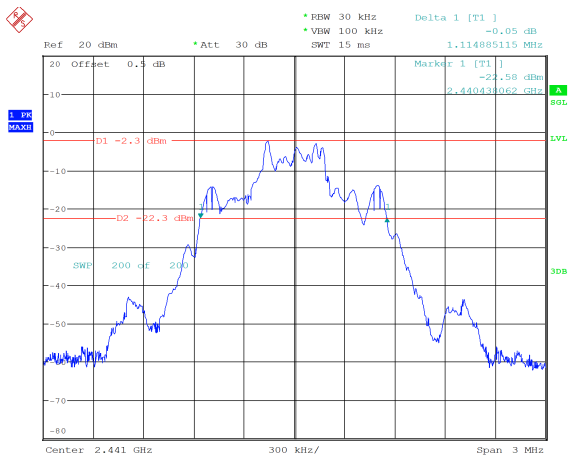
ProjectNo.:2403S72396E-RF Tester:Chin Qin
Date: 25.APR.2024 22:24:30

GFSK_High 0.824 MHz

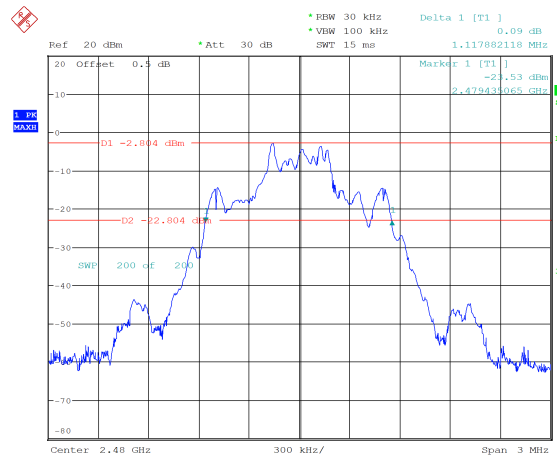
ProjectNo.:2403S72396E-RF Tester:Chin Qin
Date: 25.APR.2024 22:29:41

 $\pi/4$ -DQPSK_Low 1.115 MHz

ProjectNo.:2403S72396E-RF Tester:Chin Qin
Date: 25.APR.2024 22:45:49

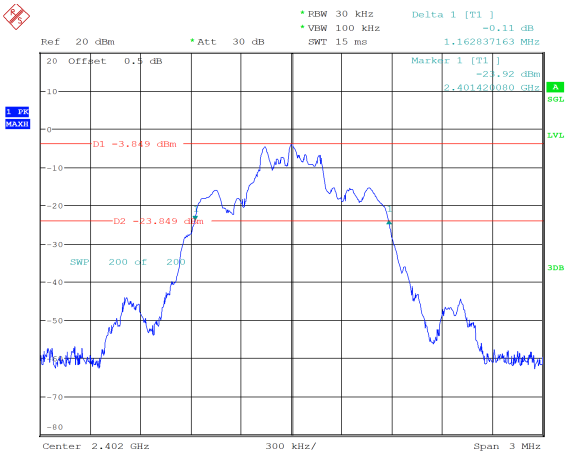
 $\pi/4$ -DQPSK_Middle 1.115 MHz

ProjectNo.:2403S72396E-RF Tester:Chin Qin
Date: 25.APR.2024 22:52:56

 $\pi/4$ -DQPSK_High 1.118 MHz

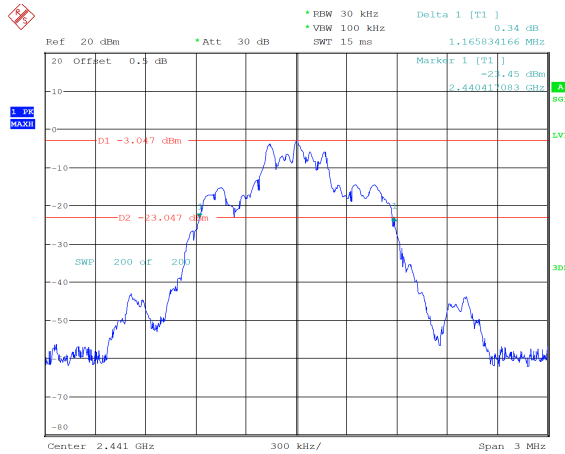
ProjectNo.:2403S72396E-RF Tester:Chin Qin
Date: 25.APR.2024 22:57:26

8DPSK_Low 1.163 MHz



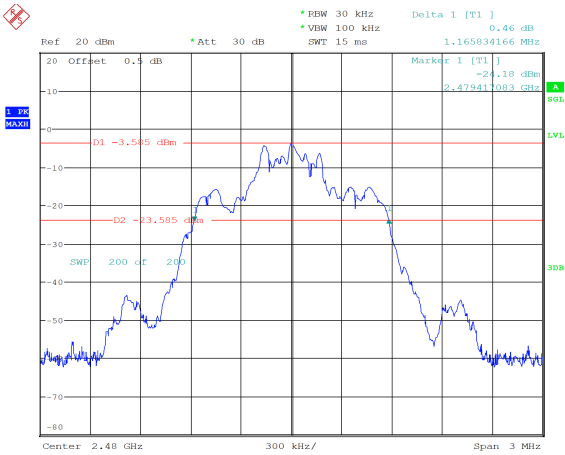
ProjectNo.:2403S72396E-RF Tester:Chin Qin
Date: 25.APR.2024 23:10:07

8DPSK_Middle 1.166 MHz

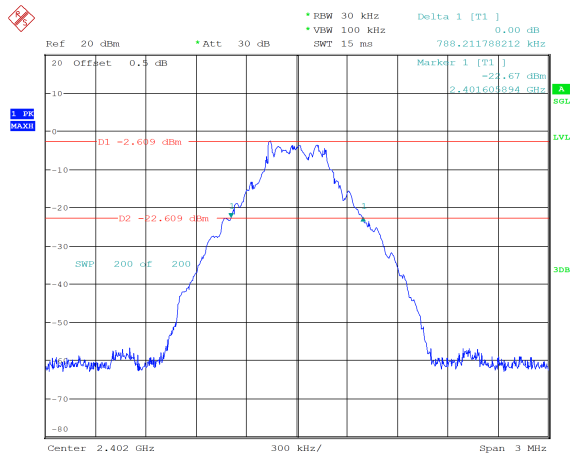


ProjectNo.:2403S72396E-RF Tester:Chin Qin
Date: 25.APR.2024 23:17:39

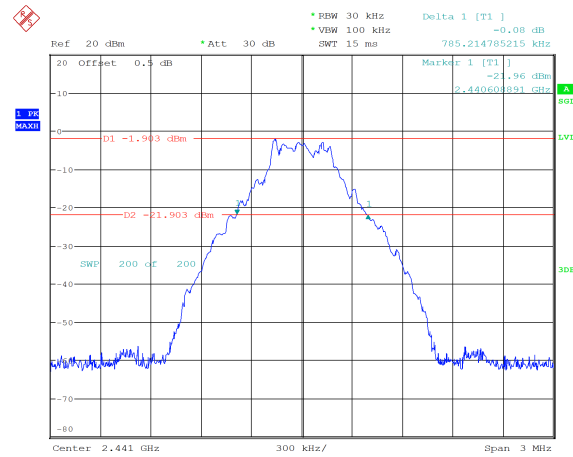
8DPSK_High 1.166 MHz



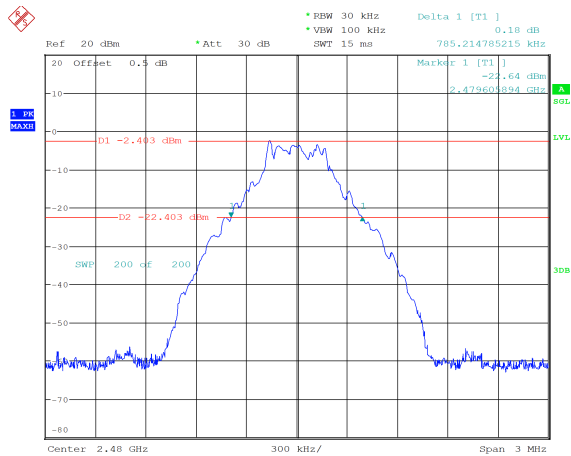
ProjectNo.:2403S72396E-RF Tester:Chin Qin
Date: 25.APR.2024 23:21:15

**AUX ANT :
BDR****GFSK_Low 0.788 MHz**

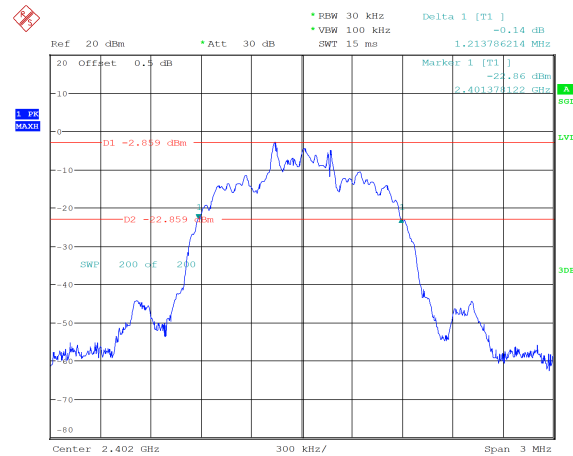
ProjectNo.:2403S72396E-RF Tester:Chin Qin
Date: 28.APR.2024 23:59:34

GFSK_Middle 0.785 MHz

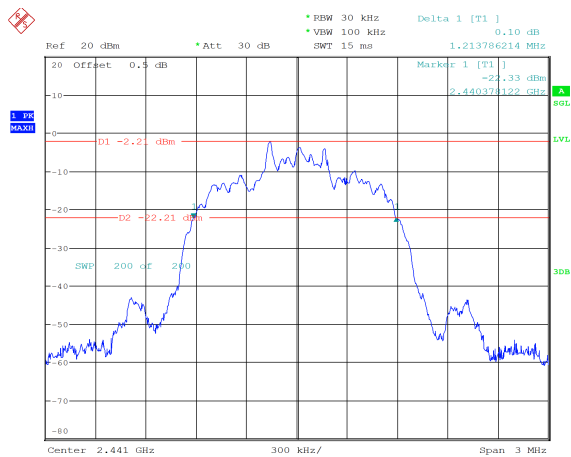
ProjectNo.:2403S72396E-RF Tester:Chin Qin
Date: 29.APR.2024 00:07:53

FDD**GFSK_High 0.785 MHz**

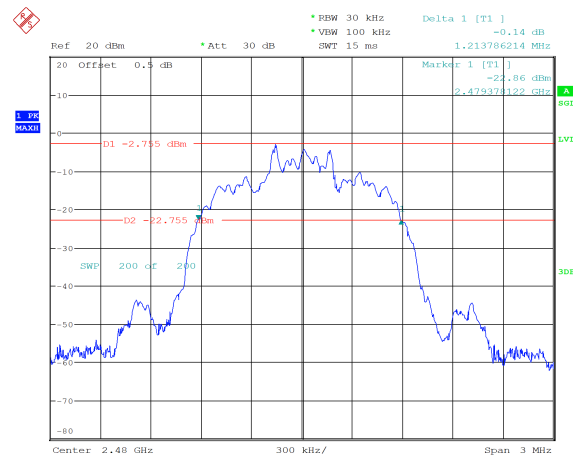
ProjectNo.:2403S72396E-RF Tester:Chin Qin
Date: 29.APR.2024 00:11:20

 $\pi/4$ -DQPSK_Low 1.214 MHz

ProjectNo.:2403S72396E-RF Tester:Chin Qin
Date: 29.APR.2024 00:29:23

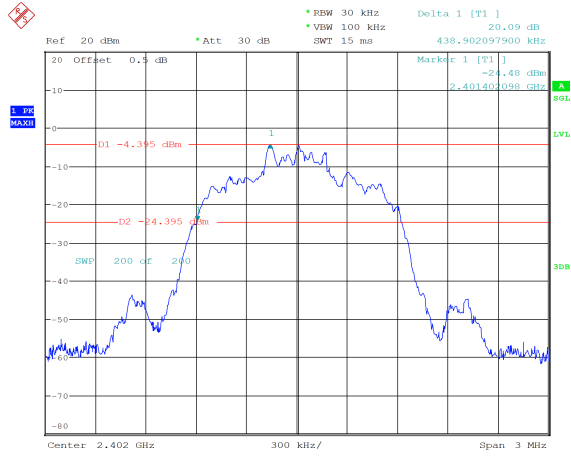
 $\pi/4$ -DQPSK_Middle 1.214 MHz

ProjectNo.:2403S72396E-RF Tester:Chin Qin
Date: 29.APR.2024 00:38:59

 $\pi/4$ -DQPSK_High 1.214 MHz

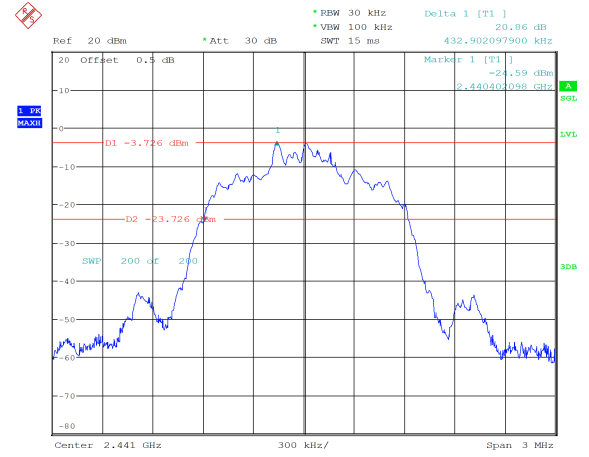
ProjectNo.:2403S72396E-RF Tester:Chin Qin
Date: 29.APR.2024 00:43:28

8DPSK_Low 0.439 MHz



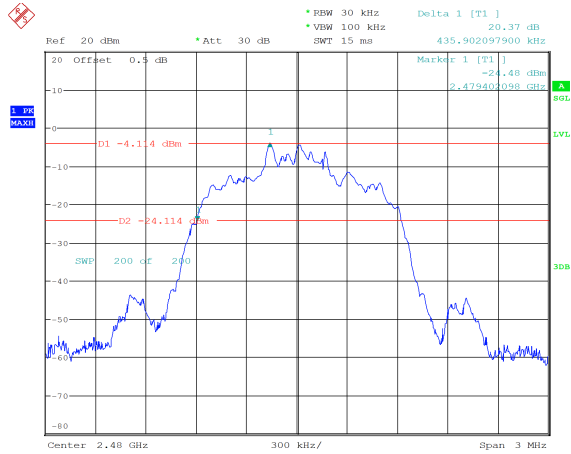
ProjectNo.:2403S72396E-RF Tester:Chin Qin
Date: 29.APR.2024 19:58:48

8DPSK_Middle 0.433 MHz



ProjectNo.:2403S72396E-RF Tester:Chin Qin
Date: 29.APR.2024 20:06:36

8DPSK_High 0.436 MHz



ProjectNo.:2403S72396E-RF Tester:Chin Qin
Date: 29.APR.2024 20:09:54

99% Occupied Bandwidth**MAIN ANT:****BDR**

Mode	99% OBW (MHz)
GFSK_Low	0.873
GFSK_Middle	0.873
GFSK_High	0.873

EDR

Mode	99% OBW (MHz)
$\pi/4$ -DQPSK_Low	1.053
$\pi/4$ -DQPSK_Middle	1.053
$\pi/4$ -DQPSK_High	1.053
8DPSK_Low	1.086
8DPSK_Middle	1.086
8DPSK_High	1.089

AUX ANT:**BDR**

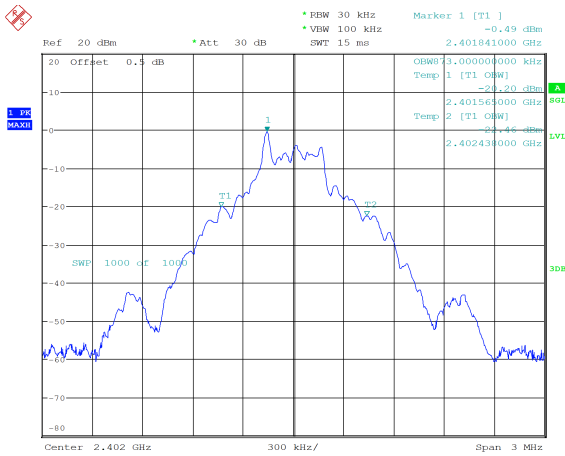
Mode	99% OBW (MHz)
GFSK_Low	0.723
GFSK_Middle	0.723
GFSK_High	0.726

EDR

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

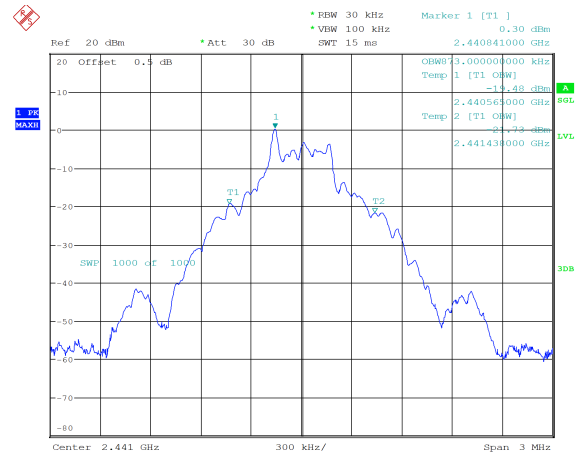
MAIN ANT: BDR

GFSK_Low 0.873 MHz



ProjectNo.:2403S72396E-RF Tester:Chin Qin
 Date: 25.APR.2024 22:22:29

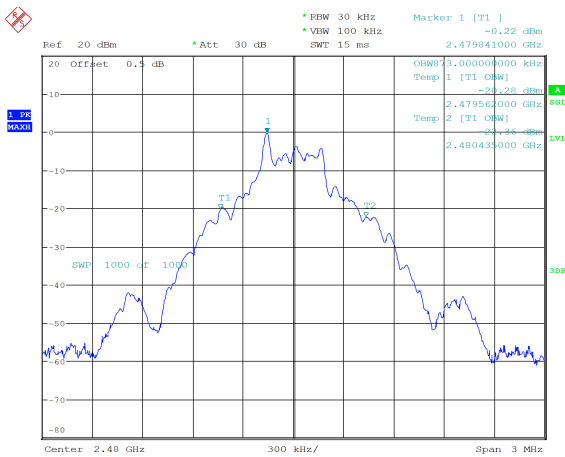
GFSK_Middle 0.873 MHz



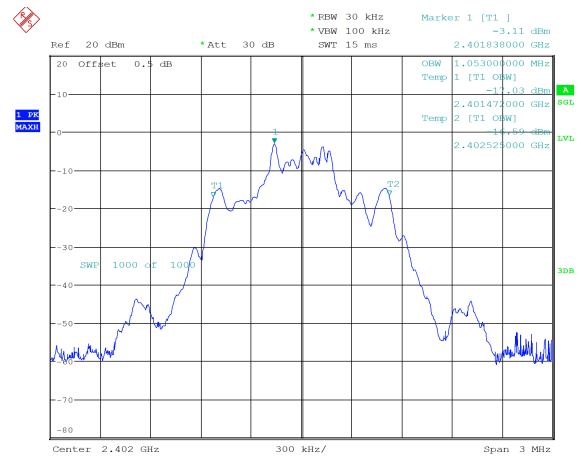
ProjectNo.:2403S72396E-RF Tester:Chin Qin
 Date: 25.APR.2024 22:25:26

EDR

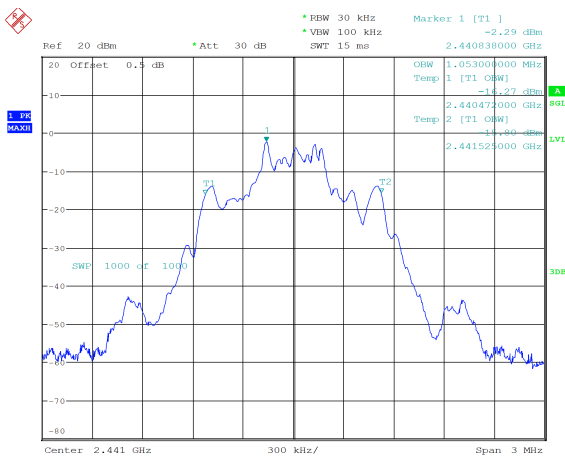
GFSK_High 0.873 MHz



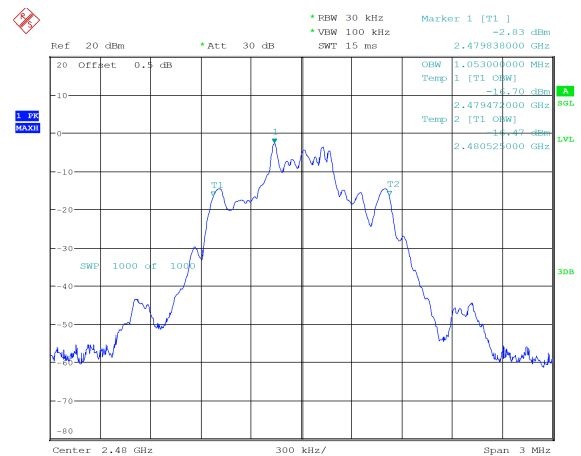
ProjectNo.:2403S72396E-RF Tester:Chin Qin
 Date: 25.APR.2024 22:34:46

 $\pi/4$ -DQPSK_Low 1.053 MHz

ProjectNo.:2403S72396E-RF Tester:Chin Qin
 Date: 25.APR.2024 22:49:39

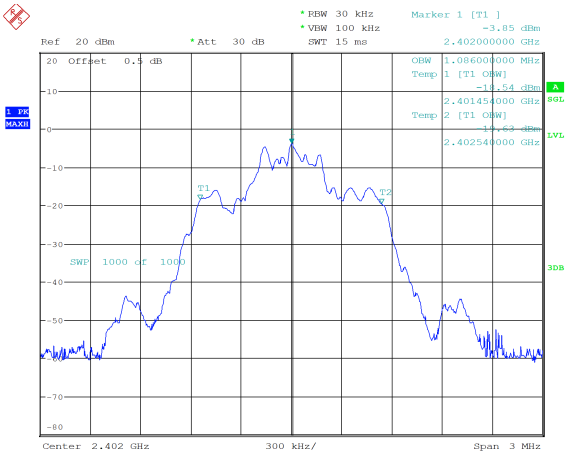
 $\pi/4$ -DQPSK_Middle 1.053 MHz

ProjectNo.:2403S72396E-RF Tester:Chin Qin
 Date: 25.APR.2024 22:53:51

 $\pi/4$ -DQPSK_High 1.053 MHz

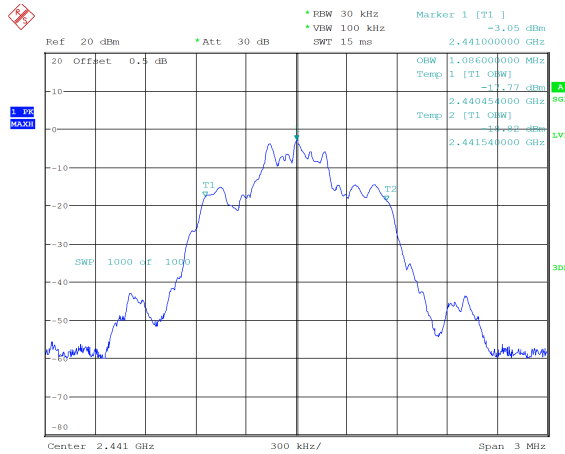
ProjectNo.:2403S72396E-RF Tester:Chin Qin
 Date: 25.APR.2024 22:58:59

8DPSK_Low 1.086 MHz



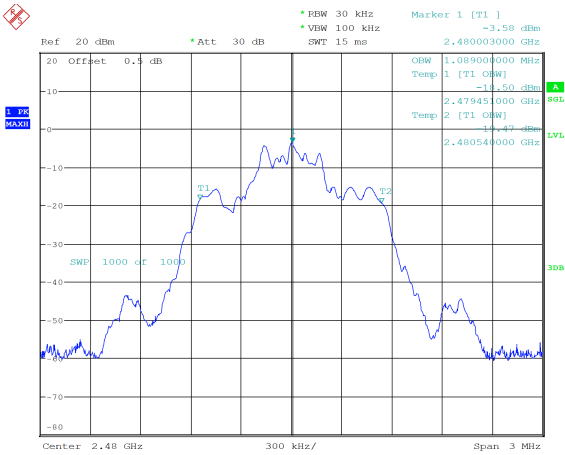
ProjectNo.:2403S72396E-RF Tester:Chin Qin
Date: 25.APR.2024 23:13:58

8DPSK_Middle 1.086 MHz



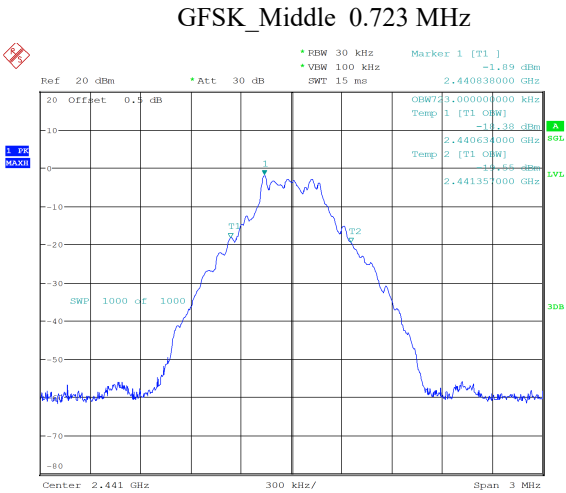
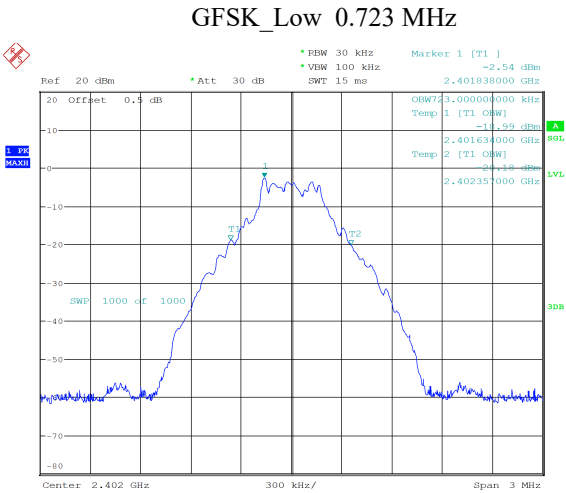
ProjectNo.:2403S72396E-RF Tester:Chin Qin
Date: 25.APR.2024 23:18:33

8DPSK_High 1.089 MHz



ProjectNo.:2403S72396E-RF Tester:Chin Qin
Date: 25.APR.2024 23:26:20

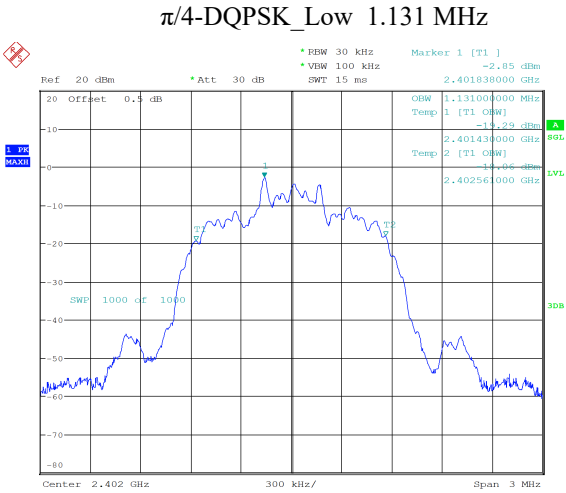
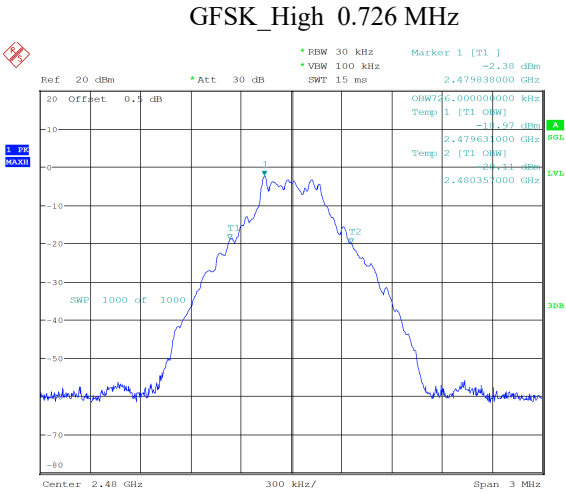
AUX ANT:
BDR



ProjectNo.:2403S72396E-RF Tester:Chin Qin
Date: 29.APR.2024 00:03:26

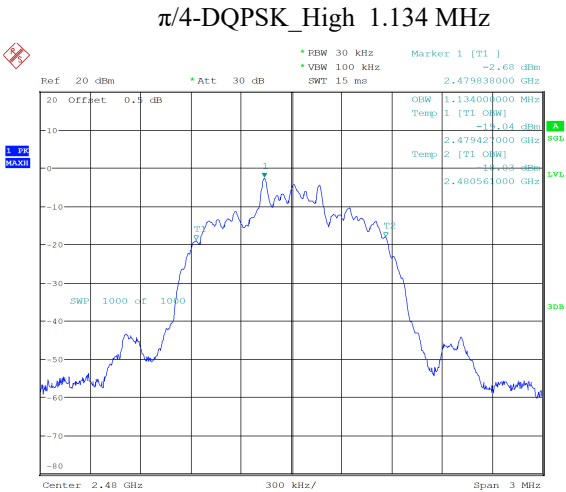
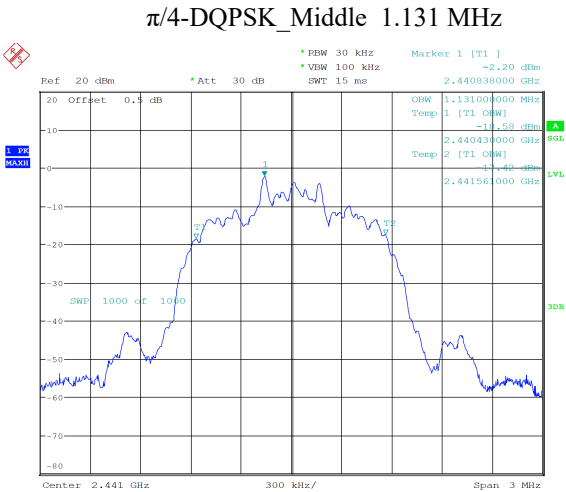
ProjectNo.:2403S72396E-RF Tester:Chin Qin
Date: 29.APR.2024 00:08:47

EDR



ProjectNo.:2403S72396E-RF Tester:Chin Qin
Date: 29.APR.2024 00:16:24

ProjectNo.:2403S72396E-RF Tester:Chin Qin
Date: 29.APR.2024 00:33:11



ProjectNo.:2403S72396E-RF Tester:Chin Qin
Date: 29.APR.2024 00:39:54

ProjectNo.:2403S72396E-RF Tester:Chin Qin
Date: 29.APR.2024 00:48:32

Channel Separation**MAIN ANT:****BDR**

Mode	Value (MHz)	Limit (MHz)	Result
GFSK_Low	1.004	0.549	Pass
GFSK_Middle	1.004	0.551	Pass
GFSK_High	1.004	0.549	Pass

EDR

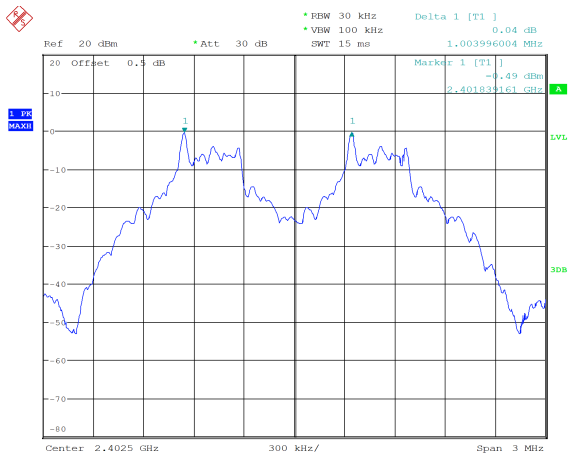
Mode	Value (MHz)	Limit (MHz)	Result
$\pi/4$ -DQPSK_Low	1.004	0.743	Pass
$\pi/4$ -DQPSK_Middle	1.004	0.743	Pass
$\pi/4$ -DQPSK_High	1.004	0.745	Pass
8DPSK_Low	1.001	0.775	Pass
8DPSK_Middle	1.001	0.777	Pass
8DPSK_High	1.001	0.777	Pass

AUX ANT:**BDR**

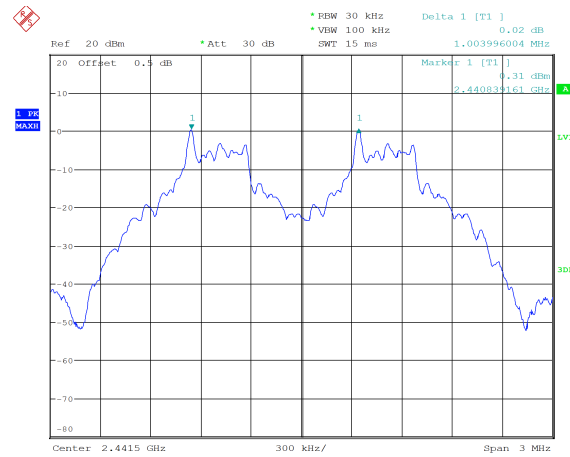
Mode	Value (MHz)	Limit (MHz)	Result
GFSK_Low	1.007	0.525	Pass
GFSK_Middle	1.004	0.523	Pass
GFSK_High	1.004	0.523	Pass

EDR

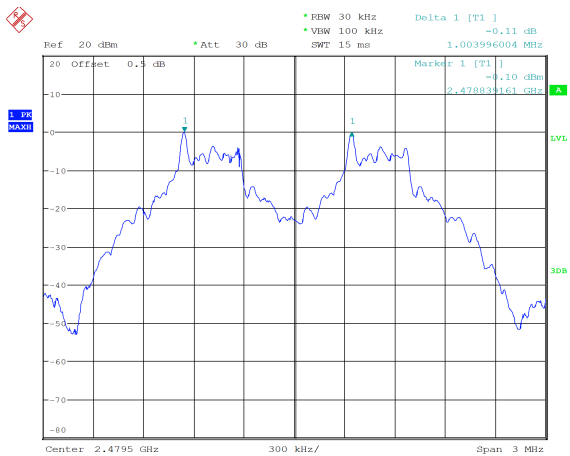
Mode	Value (MHz)	Limit (MHz)	Result
$\pi/4$ -DQPSK_Low	1.004	0.809	Pass
$\pi/4$ -DQPSK_Middle	1.001	0.809	Pass
$\pi/4$ -DQPSK_High	1.001	0.809	Pass
8DPSK_Low	0.337	0.293	Pass
8DPSK_Middle	0.998	0.289	Pass
8DPSK_High	1.159	0.291	Pass

**MAIN ANT:
BDR****GFSK_Low 1.004 MHz**

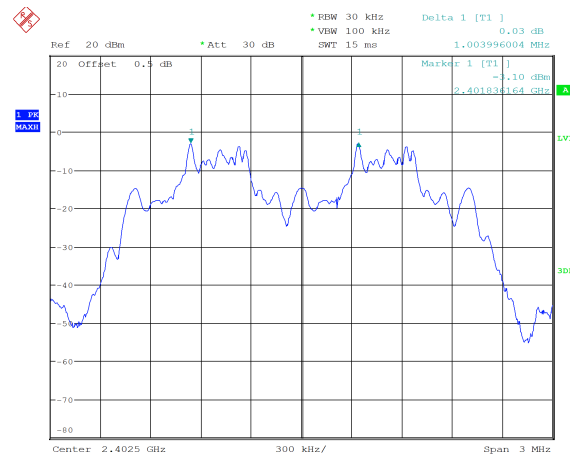
ProjectNo.:2403S72396E-RF Tester:Chin Qin
Date: 25.APR.2024 22:24:00

GFSK_Middle 1.004 MHz

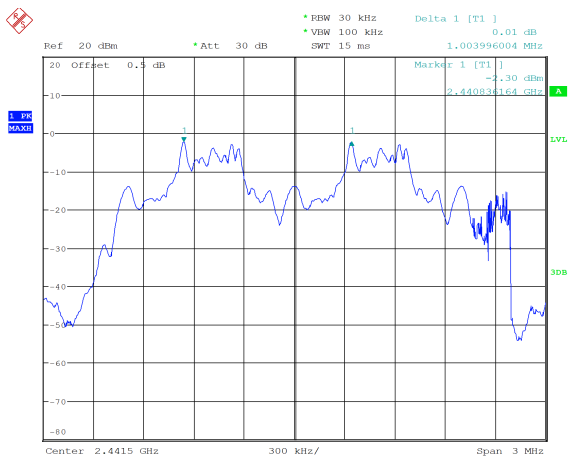
ProjectNo.:2403S72396E-RF Tester:Chin Qin
Date: 25.APR.2024 22:28:38

EDR**GFSK_High 1.004 MHz**

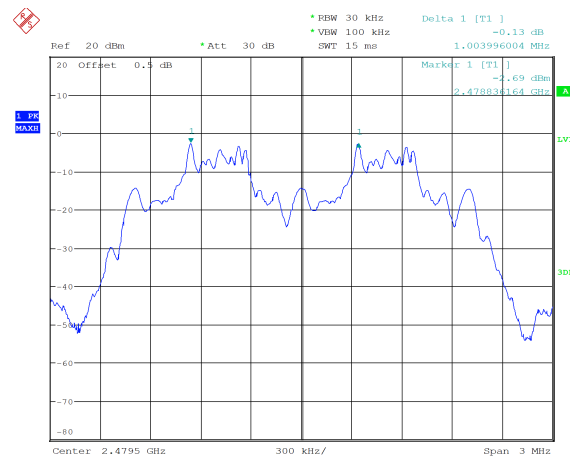
ProjectNo.:2403S72396E-RF Tester:Chin Qin
Date: 25.APR.2024 22:36:29

 $\pi/4$ -DQPSK_Low 1.004 MHz

ProjectNo.:2403S72396E-RF Tester:Chin Qin
Date: 25.APR.2024 22:52:15

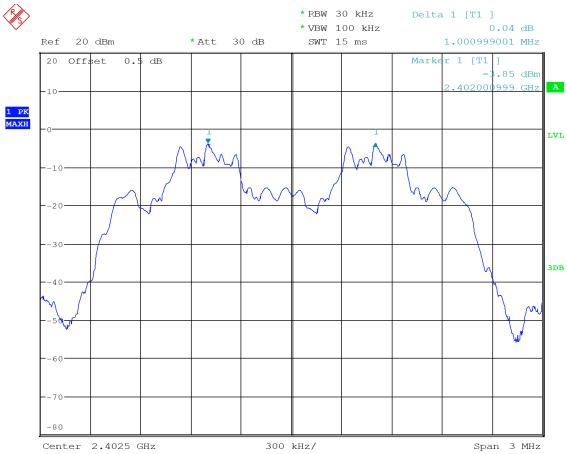
 $\pi/4$ -DQPSK_Middle 1.004 MHz

ProjectNo.:2403S72396E-RF Tester:Chin Qin
Date: 25.APR.2024 22:56:50

 $\pi/4$ -DQPSK_High 1.004 MHz

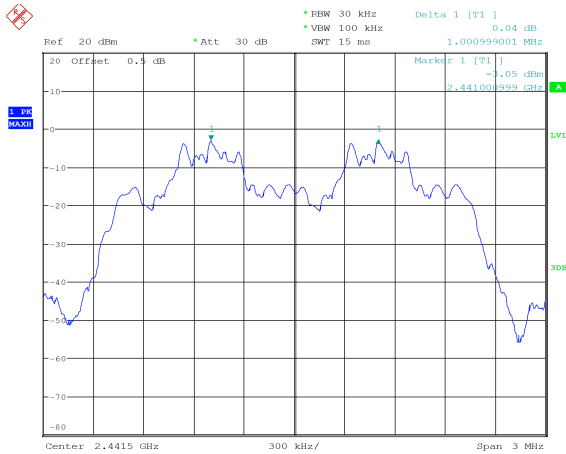
ProjectNo.:2403S72396E-RF Tester:Chin Qin
Date: 25.APR.2024 23:01:18

8DPSK_Low 1.001 MHz



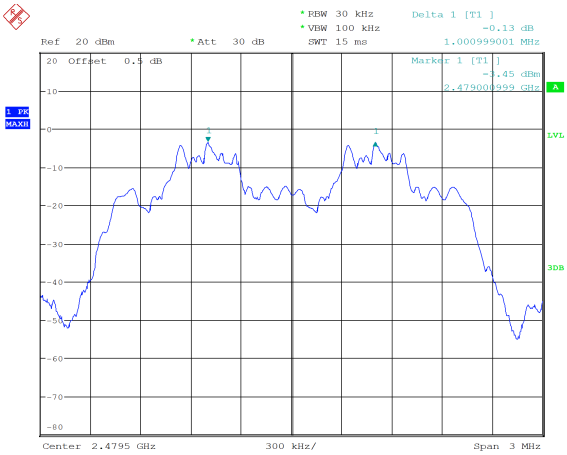
ProjectNo.:2403S72396E-RF Tester:Chin Qin
Date: 25.APR.2024 23:16:16

8DPSK_Middle 1.001 MHz



ProjectNo.:2403S72396E-RF Tester:Chin Qin
Date: 25.APR.2024 23:20:38

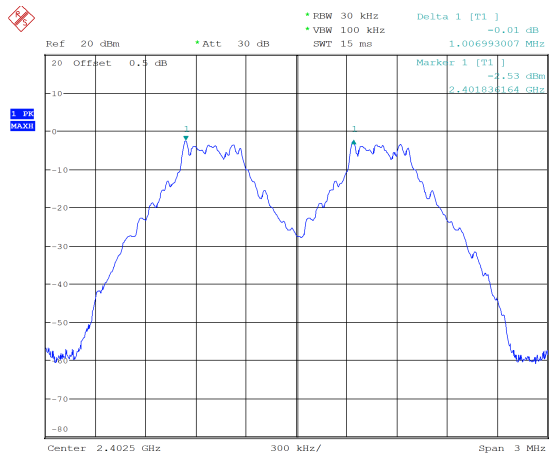
8DPSK_High 1.001 MHz



ProjectNo.:2403S72396E-RF Tester:Chin Qin
Date: 25.APR.2024 23:28:50

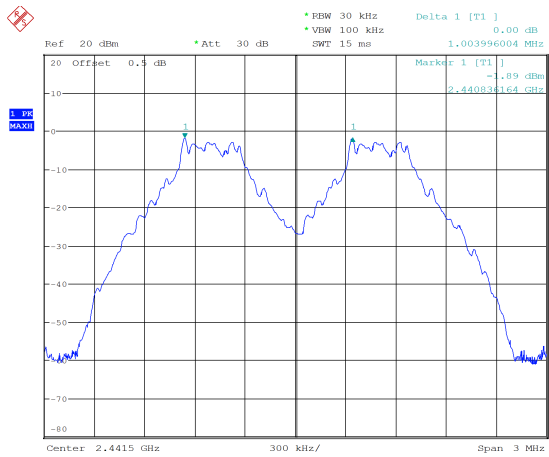
AUX ANT :
BDR

GFSK_Low 1.007 MHz



ProjectNo.:2403S72396E-RF Tester:Chin Qin
Date: 29.APR.2024 00:06:21

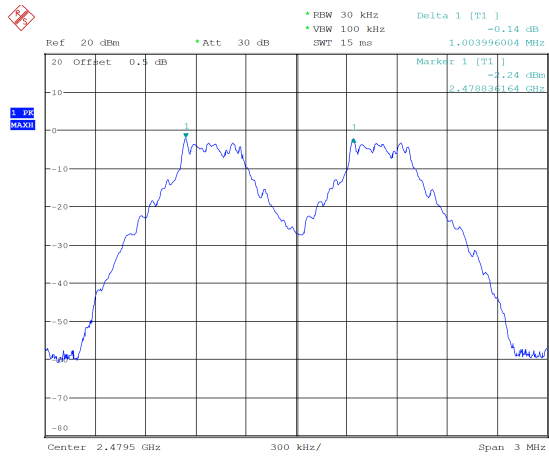
GFSK_Middle 1.004 MHz



ProjectNo.:2403S72396E-RF Tester:Chin Qin
Date: 29.APR.2024 00:10:46

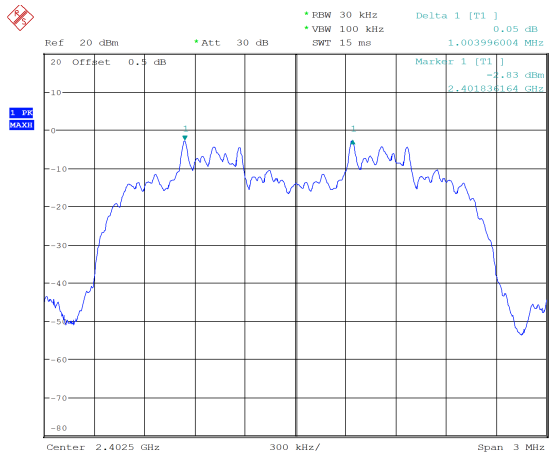
EDR

GFSK_High 1.004 MHz



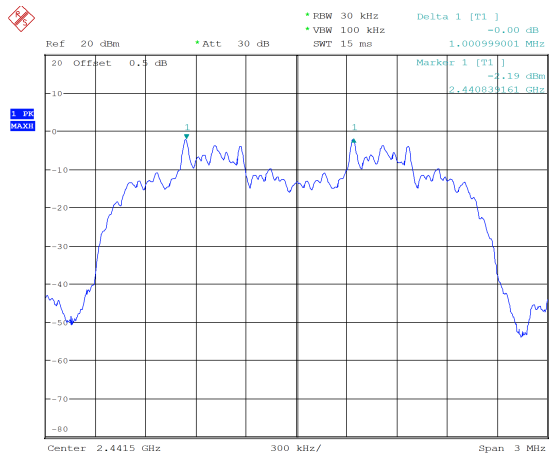
ProjectNo.:2403S72396E-RF Tester:Chin Qin
Date: 29.APR.2024 00:19:40

$\pi/4$ -DQPSK_Low 1.004 MHz



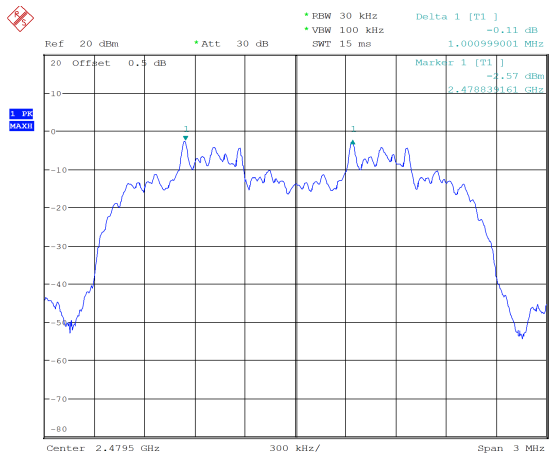
ProjectNo.:2403S72396E-RF Tester:Chin Qin
Date: 29.APR.2024 00:38:17

$\pi/4$ -DQPSK_Middle 1.001 MHz



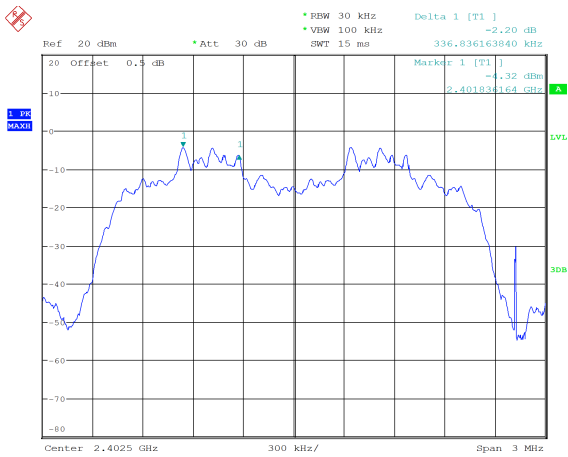
ProjectNo.:2403S72396E-RF Tester:Chin Qin
Date: 29.APR.2024 00:42:08

$\pi/4$ -DQPSK_High 1.001 MHz



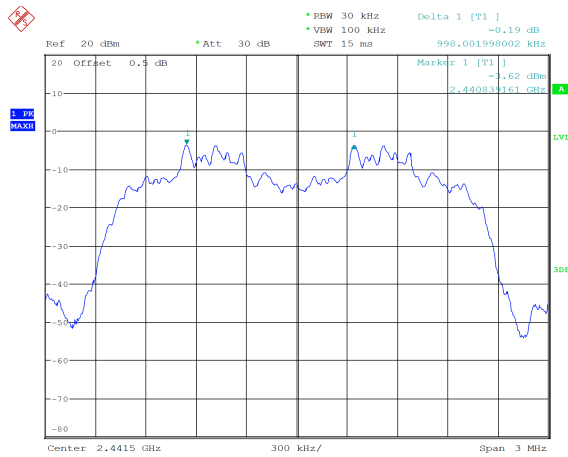
ProjectNo.:2403S72396E-RF Tester:Chin Qin
Date: 29.APR.2024 00:50:26

8DPSK_Low 0.337 MHz



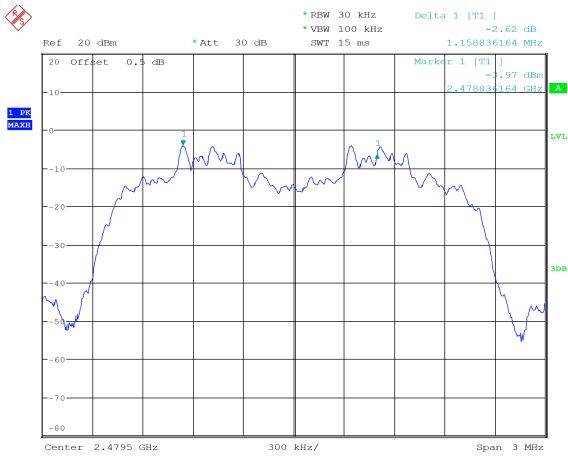
ProjectNo.:2403S72396E-RF Tester:Chin Qin
Date: 29.APR.2024 20:04:47

8DPSK_Middle 0.998 MHz



ProjectNo.:2403S72396E-RF Tester:Chin Qin
Date: 29.APR.2024 20:35:46

8DPSK_High 1.159 MHz



ProjectNo.:2403S72396E-RF Tester:Chin Qin
Date: 29.APR.2024 20:16:39

Maximum Conducted Output Power**MAIN ANT:****BDR**

Mode	Value (dBm)	Limit (dBm)	Result
GFSK_Low	0.00	21.00	Pass
GFSK_Middle	0.79	21.00	Pass
GFSK_High	0.24	21.00	Pass

EDR

Mode	Value (dBm)	Limit (dBm)	Result
$\pi/4$ -DQPSK_Low	-0.71	21.00	Pass
$\pi/4$ -DQPSK_Middle	0.09	21.00	Pass
$\pi/4$ -DQPSK_High	-0.43	21.00	Pass
8DPSK_Low	-0.89	21.00	Pass
8DPSK_Middle	-0.09	21.00	Pass
8DPSK_High	-0.61	21.00	Pass

AUX ANT:**BDR**

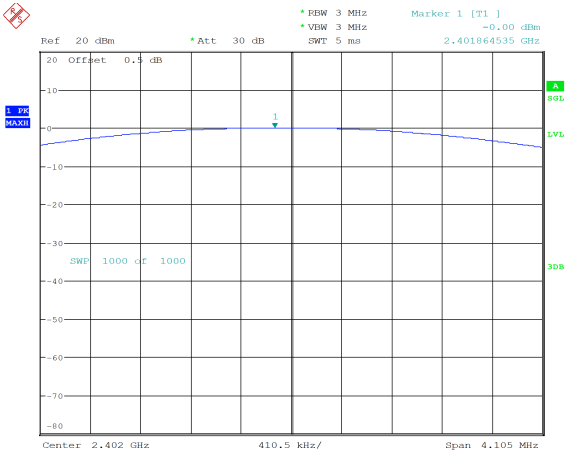
Mode	Value (dBm)	Limit (dBm)	Result
GFSK_Low	0.17	21.00	Pass
GFSK_Middle	0.83	21.00	Pass
GFSK_High	0.30	21.00	Pass

EDR

Mode	Value (dBm)	Limit (dBm)	Result
$\pi/4$ -DQPSK_Low	-0.47	21.00	Pass
$\pi/4$ -DQPSK_Middle	0.17	21.00	Pass
$\pi/4$ -DQPSK_High	-0.31	21.00	Pass
8DPSK_Low	-0.59	21.00	Pass
8DPSK_Middle	0.06	21.00	Pass
8DPSK_High	-0.40	21.00	Pass

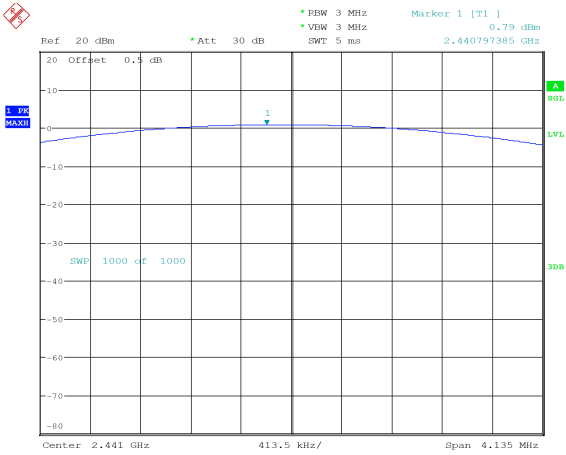
MAIN ANT:
BDR

GFSK_Low 0.00 dBm



ProjectNo.:2403S72396E-RF Tester:Chin Qin
Date: 25.APR.2024 22:23:05

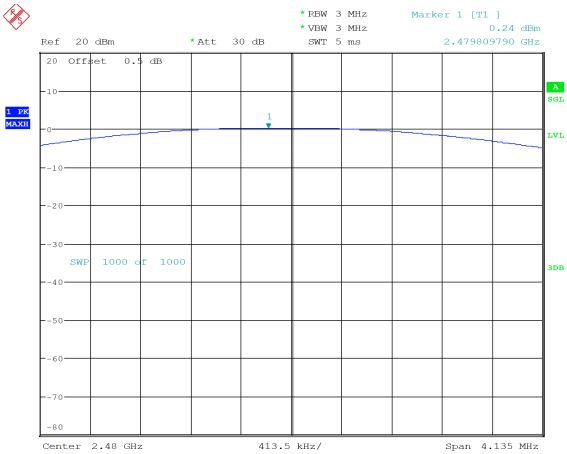
GFSK_Middle 0.79 dBm



ProjectNo.:2403S72396E-RF Tester:Chin Qin
Date: 25.APR.2024 22:26:02

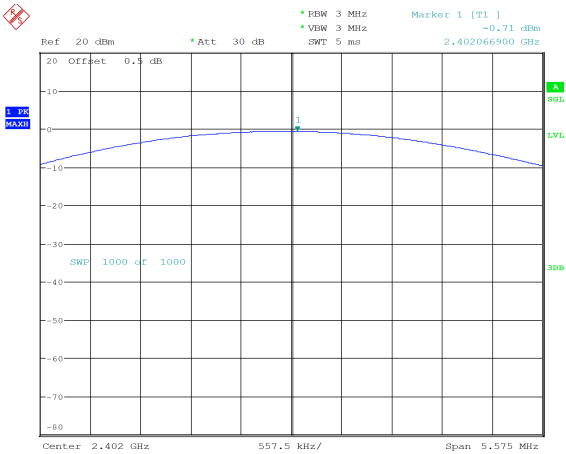
EDR

GFSK_High 0.24 dBm



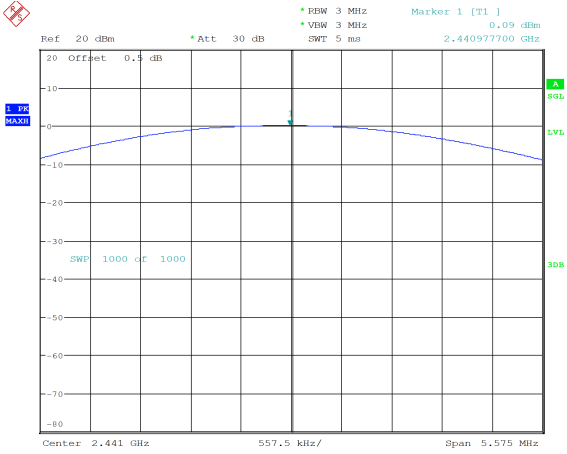
ProjectNo.:2403S72396E-RF Tester:Chin Qin
Date: 25.APR.2024 22:35:22

$\pi/4$ -DQPSK_Low -0.71 dBm



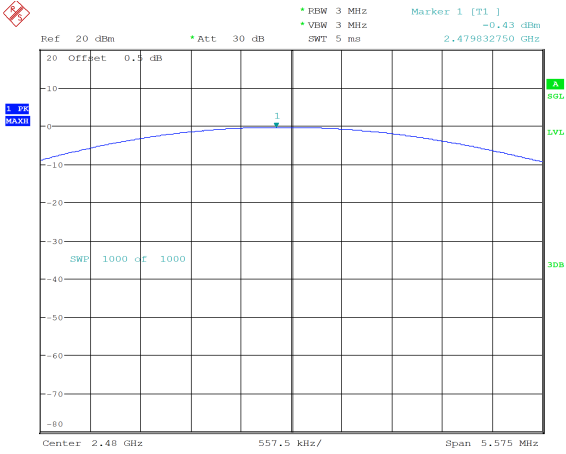
ProjectNo.:2403S72396E-RF Tester:Chin Qin
Date: 25.APR.2024 22:50:20

$\pi/4$ -DQPSK_Middle 0.09 dBm



ProjectNo.:2403S72396E-RF Tester:Chin Qin
Date: 25.APR.2024 22:54:28

$\pi/4$ -DQPSK_High -0.43 dBm



ProjectNo.:2403S72396E-RF Tester:Chin Qin
Date: 25.APR.2024 22:59:46