Ant. Pol.	Vertical
Test Mode:	π/4-DQPSK Mode 2480MHz

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2483.500	31.50	23.36	54.86	74.00	-19.14	peak
2	2483.500	31.50	17.55	49.05	54.00	-4.95	AVG

Remarks:
1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor
2.Margin value = Level -Limit value

Ant. Pol.	Horizontal
Test Mode:	8-DPSK Mode 2402MHz

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2390.000	31.10	21.39	52.49	74.00	-21.51	peak
2	2390.000	31.10	9.78	40.88	54.00	-13.12	AVG

Remarks:
1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor
2.Margin value = Level -Limit value

Ant. Pol.	Vertical
Test Mode:	8-DPSK Mode 2402MHz

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2390.000	31.10	20.77	51.87	74.00	-22.13	peak
2	2390.000	31.10	9.59	40.69	54.00	-13.31	AVG

Remarks:
1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor
2.Margin value = Level -Limit value

Ant. Pol.	Horizontal
Test Mode:	8-DPSK Mode 2480MHz

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2483.500	31.50	25.95	57.45	74.00	-16.55	peak
2	2483.500	31.50	19.85	51.35	54.00	-2.65	AVG

Remarks:
1. Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor
2. Margin value = Level -Limit value

Ant. Pol.	Vertical
Test Mode:	8-DPSK Mode 2480MHz

No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2483.500	31.50	23.36	54.86	74.00	-19.14	peak
2	2483.500	31.50	17.55	49.05	54.00	-4.95	AVG

Remarks:
1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor
2.Margin value = Level -Limit value

3.4. Band edge and Spurious Emissions (Conducted)

Limit

FCC CFR Title 47 Part 15 Subpart C Section 15.247 (d):In any 100 kHz bandwidth outside the frequency band in which the spread spectrum 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.

Test Configuration
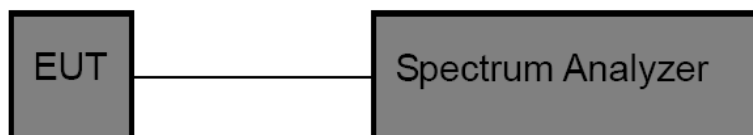
Test Procedure

1. The transmitter output was connected to the spectrum analyzer through an attenuator, the path loss was compensated to the results for each measurement.
2. Set to the maximum power setting and enable the EUT transmit continuously
3. Use the following spectrum analyzer settings:
   RBW = 100 kHz, VBW ≥ RBW, scan up through 10th harmonic.
   Sweep = auto, Detector function = peak, Trace = max hold
4. Measure and record the results in the test report.

Test Mode
Please refer to the clause 2.4.

Test Results

(1) Band edge Conducted Test

Test Mode	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
GFSK	Low	2402	4.97	-57.75	<=-15.03	PASS
	High	2480	3.87	-59.73	<=-16.13	PASS
	Low	Hop_2402	5.04	-58.06	-14.96	PASS
	High	Hop_2480	4.14	-57.42	-15.86	PASS
π/4-DQPSK	Low	2402	1.33	-59.73	<=-18.67	PASS
	High	2480	0.30	-60.38	<=-19.7	PASS
	Low	Hop_2402	1.33	-60.23	-18.67	PASS
	High	Hop_2480	0.61	-59.03	-19.39	PASS
8-DPSK	Low	2402	1.61	-58.31	<=-18.39	PASS
	High	2480	0.54	-60.58	<=-19.46	PASS
	Low	Hop_2402	1.63	-59.1	-18.37	PASS
	High	Hop_2480	0.88	-58.97	-19.12	PASS

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For anti-fake verification, please visit the official website of Certification and Accreditation Administration of the People's Republic of China : yz.cnca.cn
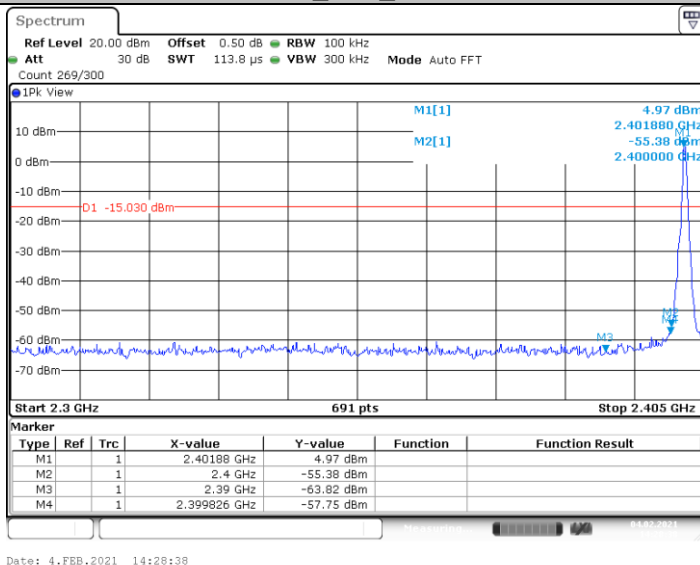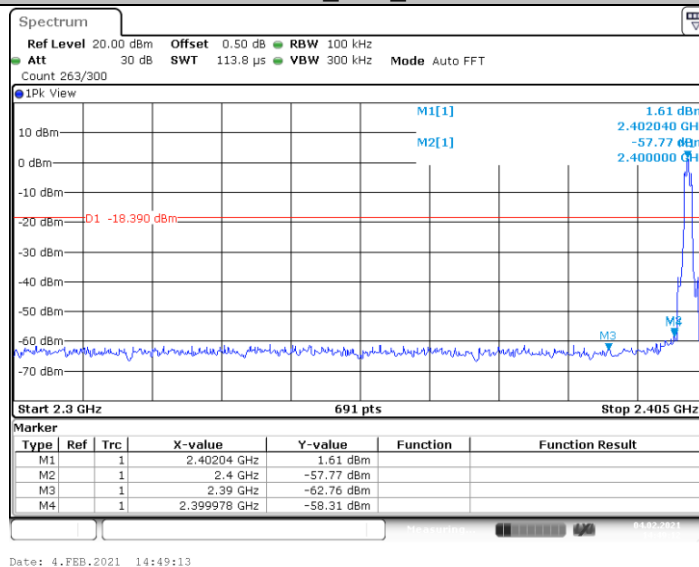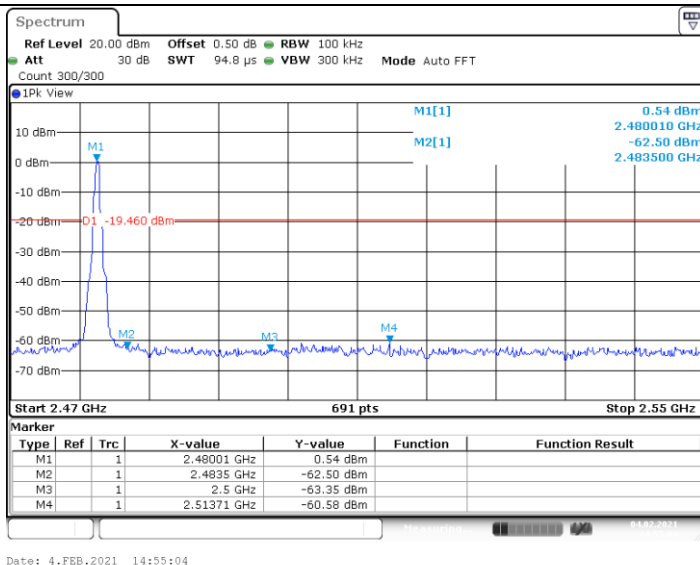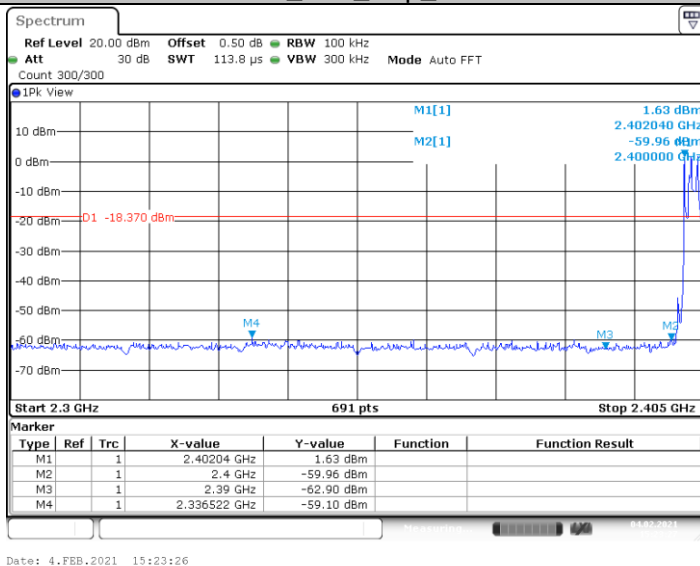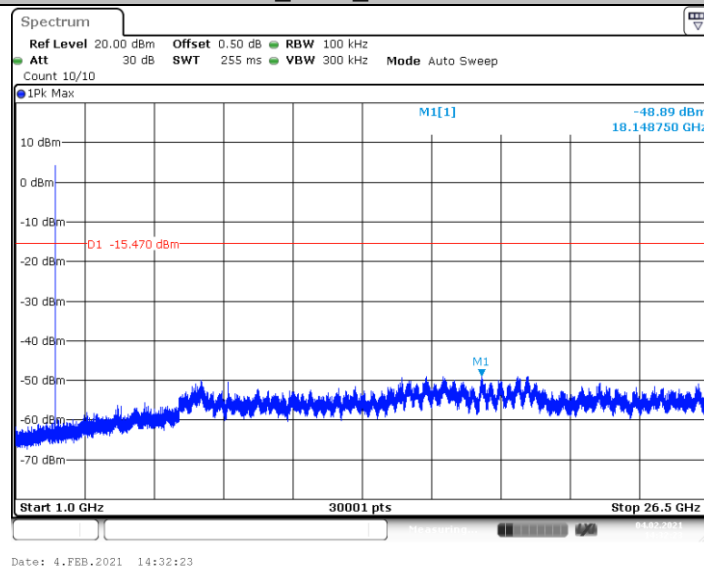
DH5_Low_2402
DH5_High_2480
DH5_Low_Hop_2402
DH5_High_Hop_2480
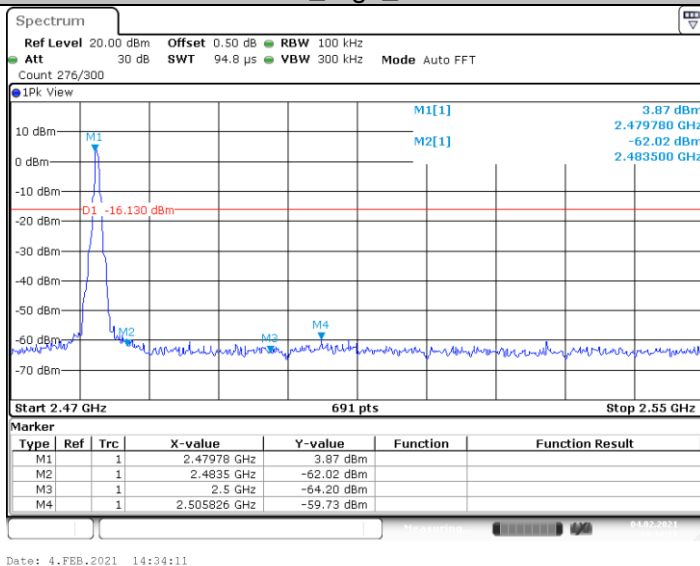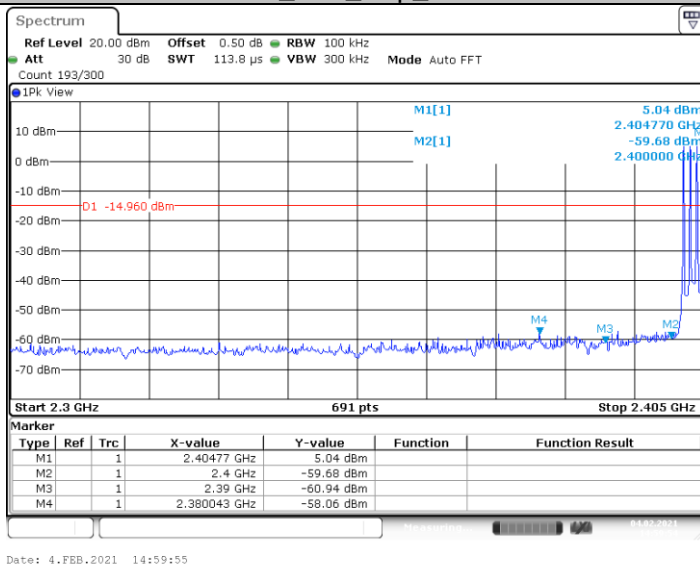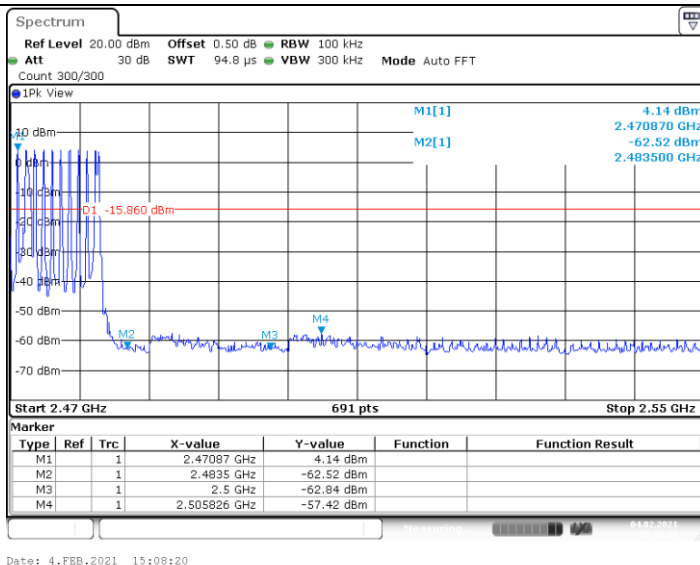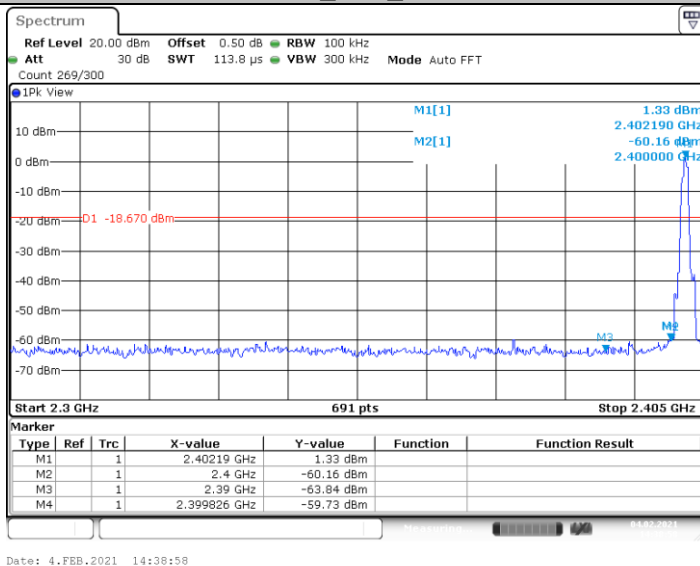
2DH5_Low_2402

2DH5_High_2480

2DH5_Low_Hop_2402

Spectrum

Ref Level 20.00 dBm   Offset 0.50 dB   RBW 100 kHz
Att 30 dB   SWT 113.8 µs   VBW 300 kHz   Mode Auto FFT
Count 300/300
1Pk View

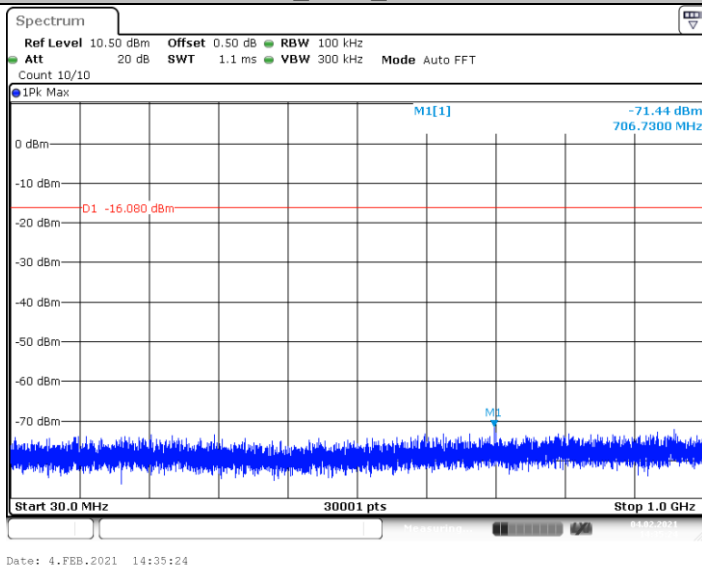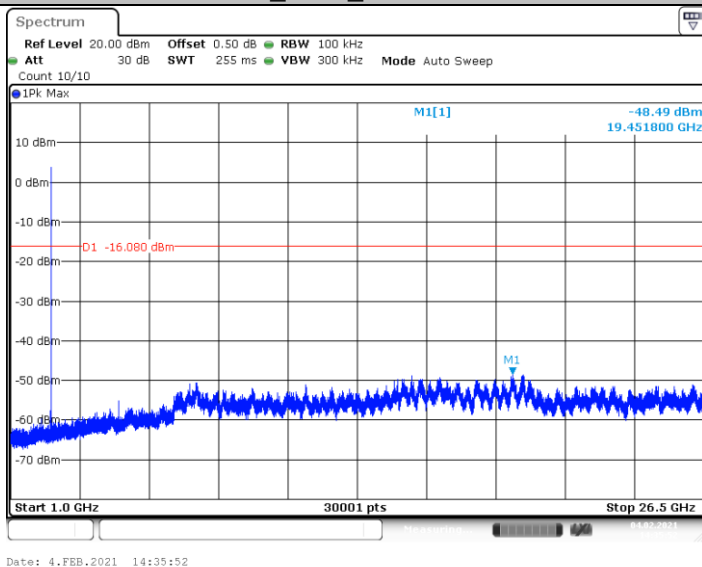M1[1]   1.33 dBm
2.403100 GHz
M2[1]   -61.53 dBm
2.400000 GHz

D1 -18.670 dBm

Start 2.3 GHz   691 pts   Stop 2.405 GHz

Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.4031 GHz	1.33 dBm		
M2		1	2.4 GHz	-61.53 dBm		
M3		1	2.39 GHz	-61.96 dBm		
M4		1	2.336826 GHz	-60.23 dBm		

Date: 4.FEB.2021 15:10:05

2DH5_High_Hop_2480

Spectrum

Ref Level 20.00 dBm   Offset 0.50 dB   RBW 100 kHz
Att 30 dB   SWT 94.8 µs   VBW 300 kHz   Mode Auto FFT
Count 300/300
1Pk View

M1[1]   0.61 dBm
2.470170 GHz
M2[1]   -62.58 dBm
2.483500 GHz

D1 -19.390 dBm

Start 2.47 GHz   691 pts   Stop 2.55 GHz

Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.47017 GHz	0.61 dBm		
M2		1	2.4835 GHz	-62.58 dBm		
M3		1	2.5 GHz	-62.37 dBm		
M4		1	2.515101 GHz	-59.03 dBm		

Date: 4.FEB.2021 15:20:24

3DH5_Low_2402

Spectrum

Ref Level 20.00 dBm   Offset 0.50 dB   RBW 100 kHz
Att 30 dB   SWT 113.8 µs   VBW 300 kHz   Mode Auto FFT
Count 263/300
1Pk View

M1[1]   1.61 dBm
2.402040 GHz
M2[1]   -57.77 dBm
2.400000 GHz

D1 -18.390 dBm

Start 2.3 GHz   691 pts   Stop 2.405 GHz

Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.40204 GHz	1.61 dBm		
M2		1	2.4 GHz	-57.77 dBm		
M3		1	2.39 GHz	-62.76 dBm		
M4		1	2.399978 GHz	-58.31 dBm		

Date: 4.FEB.2021 14:49:13

3DH5_High_2480

Spectrum				
Ref Level 20.00 dBm	Offset 0.50 dB	RBW 100 kHz		
Att 30 dB	SWT 94.8 µs	VBW 300 kHz	Mode Auto FFT	
Count 300/300				

Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.48001 GHz	0.54 dBm		
M2		1	2.4835 GHz	-62.50 dBm		
M3		1	2.5 GHz	-63.35 dBm		
M4		1	2.51371 GHz	-60.58 dBm		

Date: 4.FEB.2021 14:55:04

3DH5_Low_Hop_2402

Spectrum				
Ref Level 20.00 dBm	Offset 0.50 dB	RBW 100 kHz		
Att 30 dB	SWT 113.8 µs	VBW 300 kHz	Mode Auto FFT	
Count 300/300				

Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.40204 GHz	1.63 dBm		
M2		1	2.4 GHz	-59.96 dBm		
M3		1	2.39 GHz	-62.90 dBm		
M4		1	2.336522 GHz	-59.10 dBm		

Date: 4.FEB.2021 15:23:26

3DH5_High_Hop_2480

Spectrum				
Ref Level 20.00 dBm	Offset 0.50 dB	RBW 100 kHz		
Att 30 dB	SWT 94.8 µs	VBW 300 kHz	Mode Auto FFT	
Count 300/300				

Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.47006 GHz	0.88 dBm		
M2		1	2.4835 GHz	-61.29 dBm		
M3		1	2.5 GHz	-61.28 dBm		
M4		1	2.511043 GHz	-58.97 dBm		

Date: 4.FEB.2021 15:36:49

(2)   Conducted Spurious Emissions Test

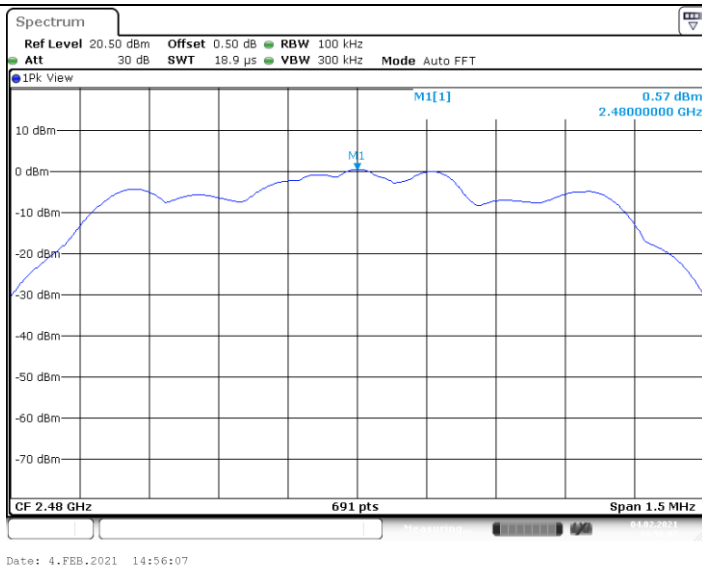| Test Mode	Channel	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
GFSK	2402	Reference	4.86	4.86	---	PASS
		30~1000	30~1000	-72.67	<=-15.14	PASS
		1000~26500	1000~26500	-48.14	<=-15.14	PASS
	2441	Reference	4.53	4.53	---	PASS
		30~1000	30~1000	-72.19	<=-15.47	PASS
		1000~26500	1000~26500	-48.89	<=-15.47	PASS
	2480	Reference	3.92	3.92	---	PASS
		30~1000	30~1000	-71.44	<=-16.08	PASS
		1000~26500	1000~26500	-48.49	<=-16.08	PASS
π/4-DQPSK	2402	Reference	1.22	1.22	---	PASS
		30~1000	30~1000	-72.55	<=-18.78	PASS
		1000~26500	1000~26500	-48.01	<=-18.78	PASS
	2441	Reference	0.72	0.72	---	PASS
		30~1000	30~1000	-72.53	<=-19.28	PASS
		1000~26500	1000~26500	-48.84	<=-19.28	PASS
	2480	Reference	0.33	0.33	---	PASS
		30~1000	30~1000	-71.73	<=-19.67	PASS
		1000~26500	1000~26500	-47.86	<=-19.67	PASS
8-DPSK	2402	Reference	1.49	1.49	---	PASS
		30~1000	30~1000	-72.86	<=-18.51	PASS
		1000~26500	1000~26500	-48.39	<=-18.51	PASS
	2441	Reference	0.96	0.96	---	PASS
		30~1000	30~1000	-71.95	<=-19.04	PASS
		1000~26500	1000~26500	-48.37	<=-19.04	PASS
	2480	Reference	0.57	0.57	---	PASS
		30~1000	30~1000	-72.57	<=-19.43	PASS
		1000~26500	1000~26500	-48.37	<=-19.43	PASS

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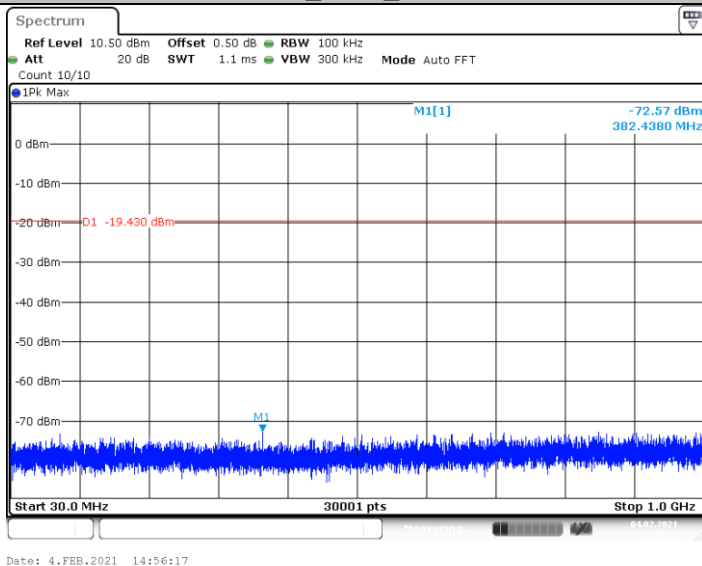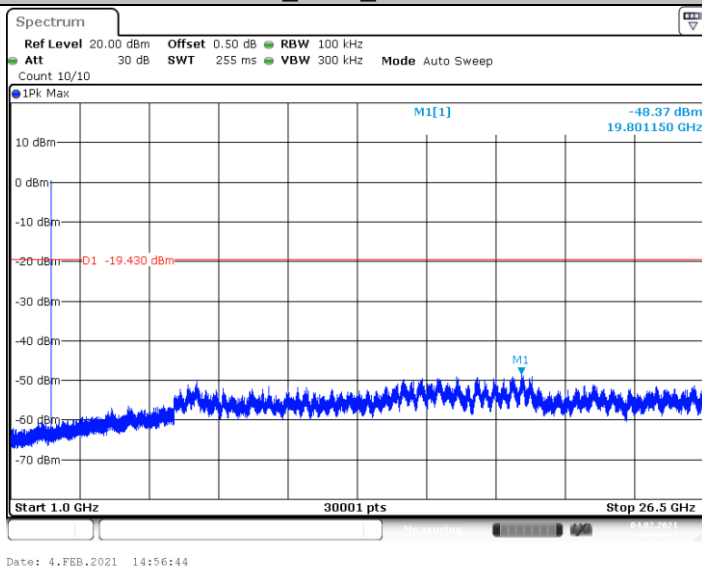Tel.: (86)755-27521059   Fax: (86)755-27521011   Http://www.sz-ctc.org.cn
For anti-fake verification, please visit the official website of Certification and Ac-
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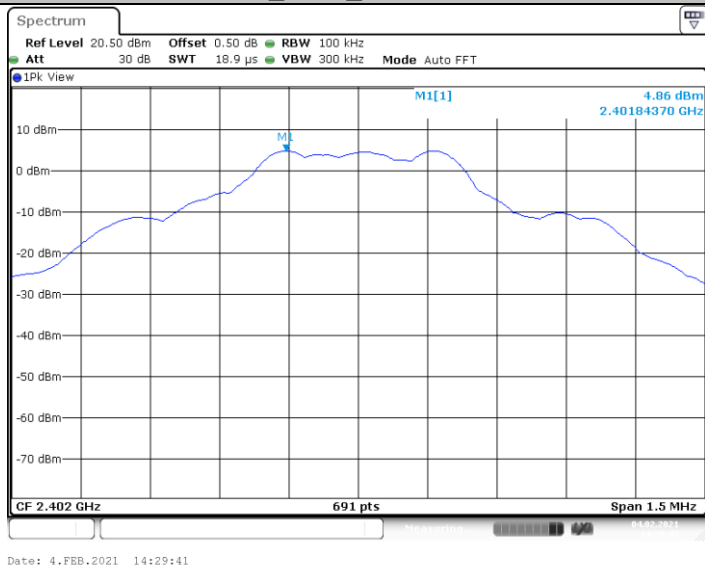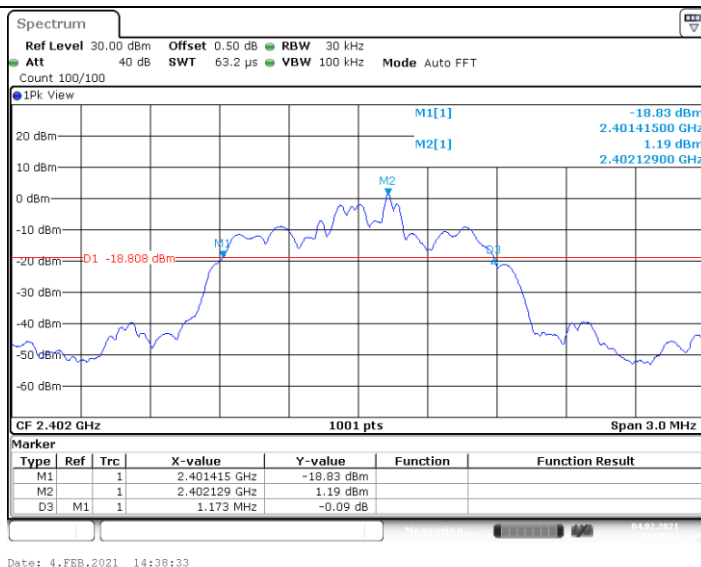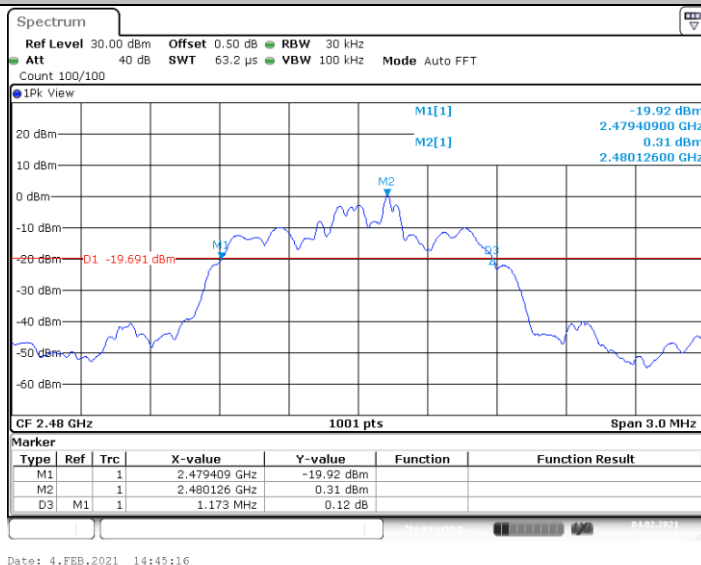
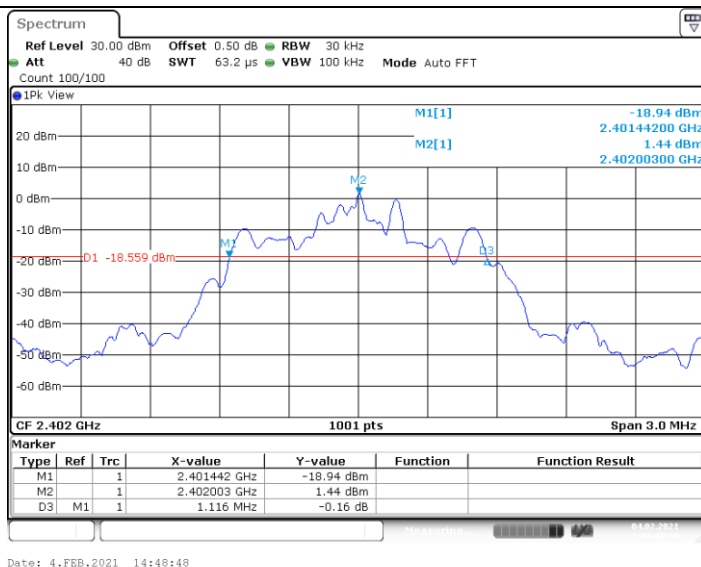| GFSK_2402_0~Reference |
|---|
| |
| GFSK_2402_30~1000 |
| |
| GFSK_2402_1000~26500 |
| |
| GFSK_2441_0~Reference |
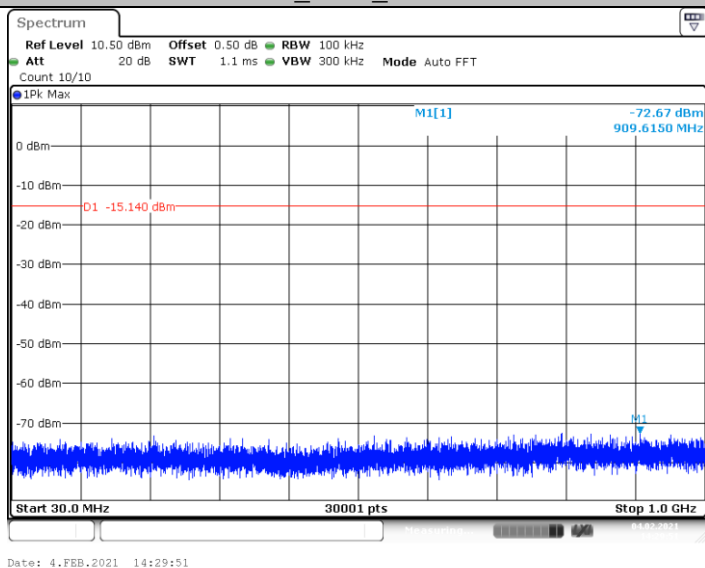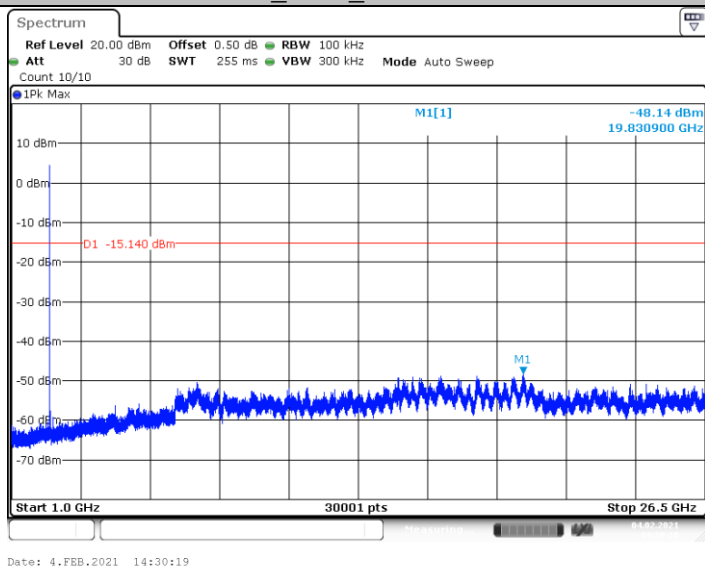
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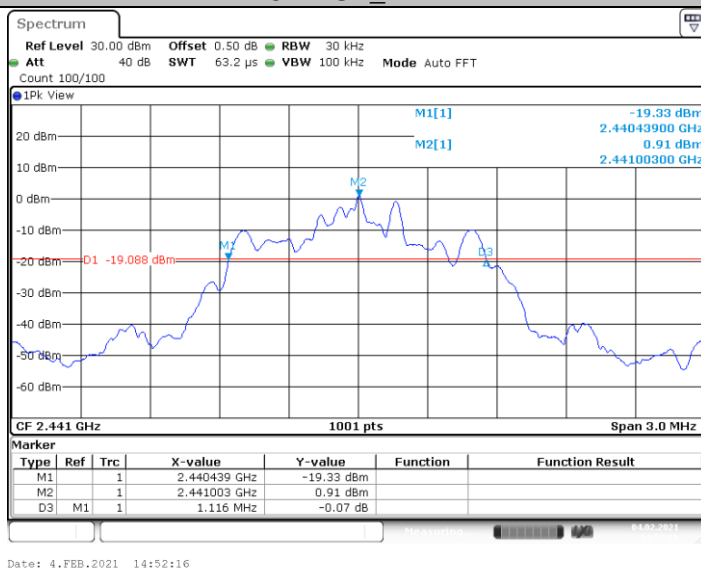
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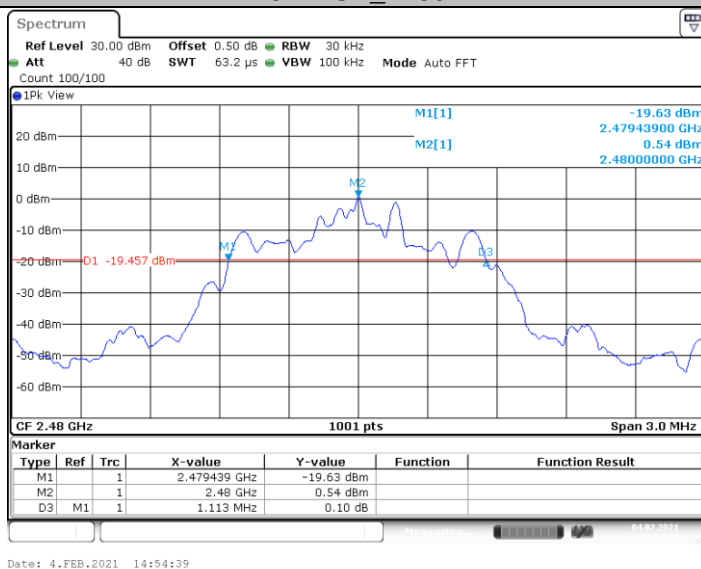
For anti-fake verification, please visit the official website of Certification and Accreditation Administration of the People's Republic of China : yz.cnca.cn

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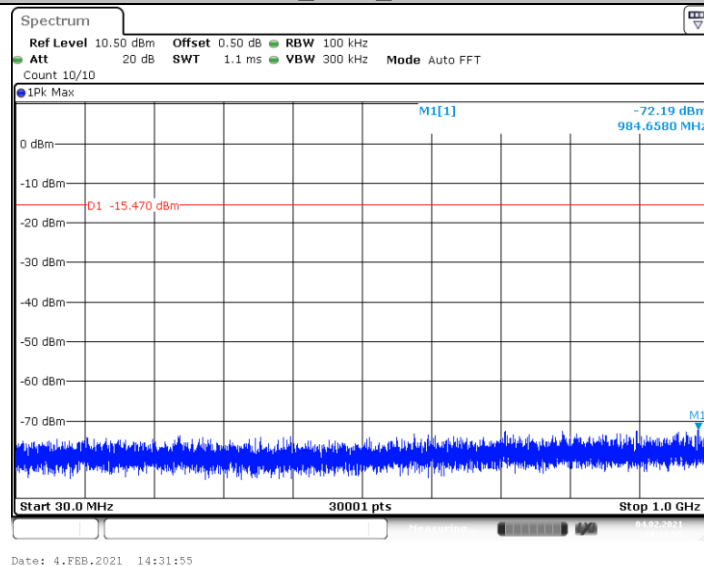
GFSK_2441_1000~26500

GFSK_2480_0~Reference
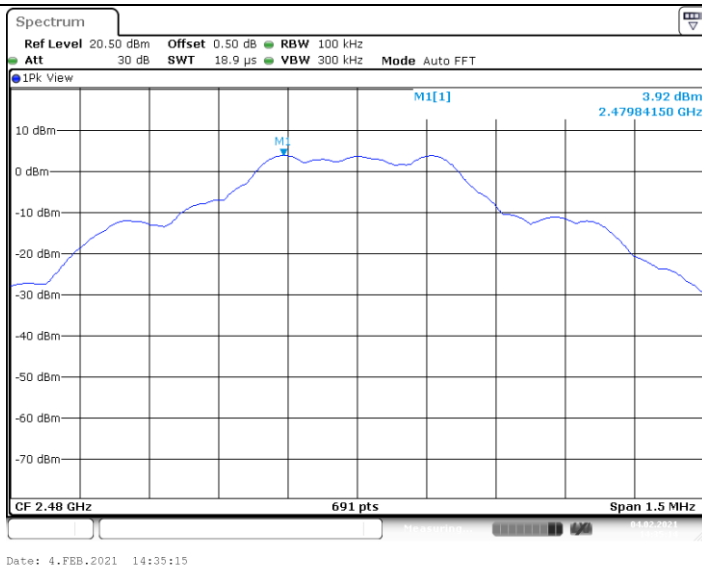
GFSK_2480_30~1000

GFSK_2480_1000~26500

π/4-DQPSK_2402_0~Reference
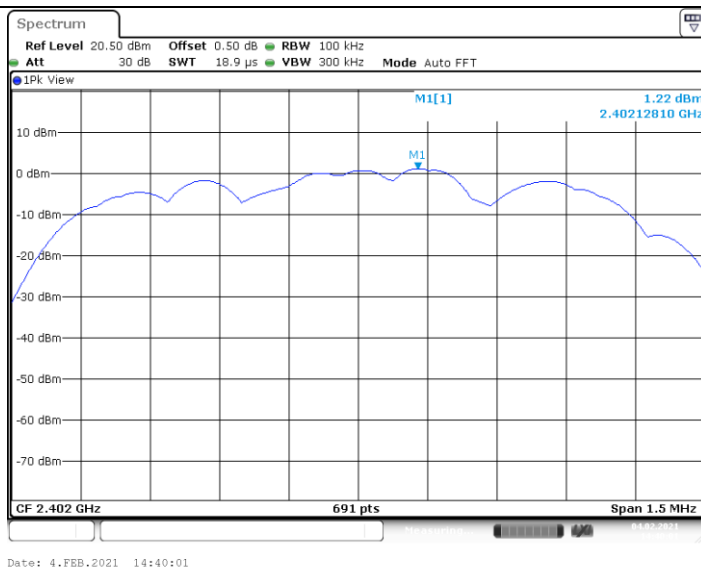
π/4-DQPSK_2402_30~1000
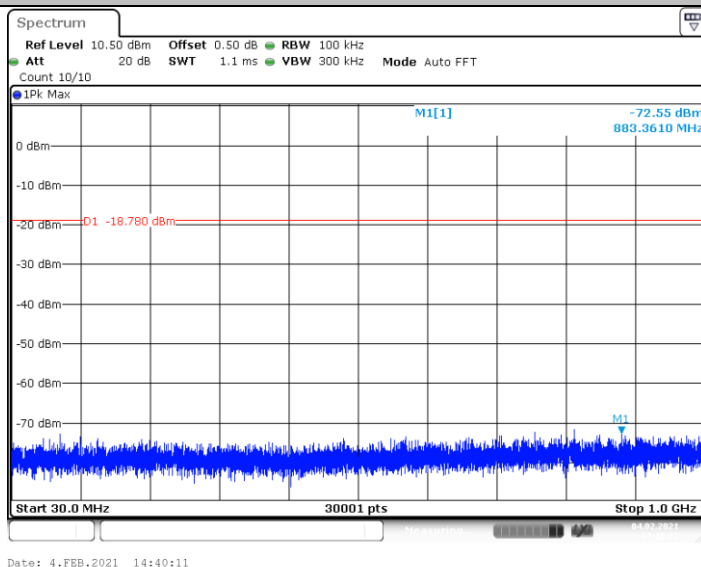
π/4-DQPSK_2402_1000~26500

π/4-DQPSK_2441_0~Reference
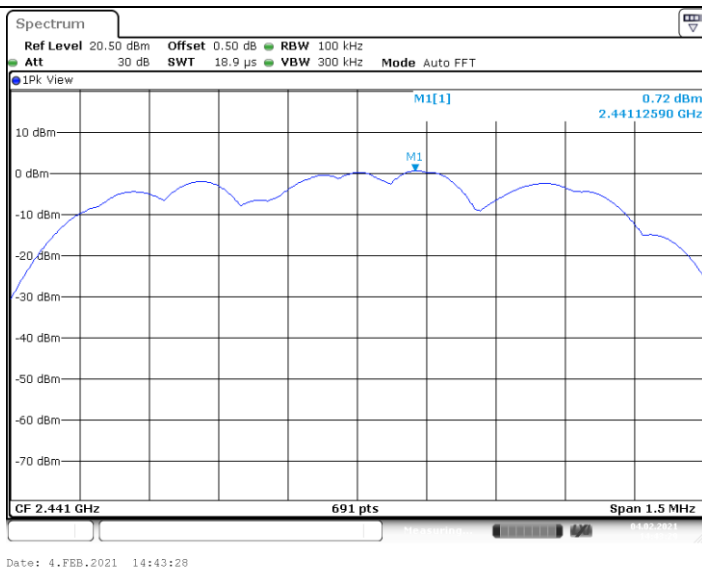
π/4-DQPSK_2441_30~1000
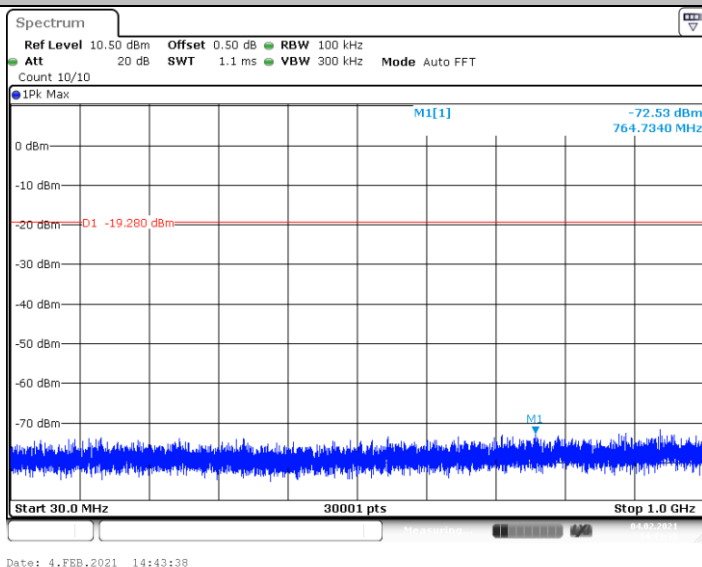
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π/4-DQPSK_2480_0~Reference
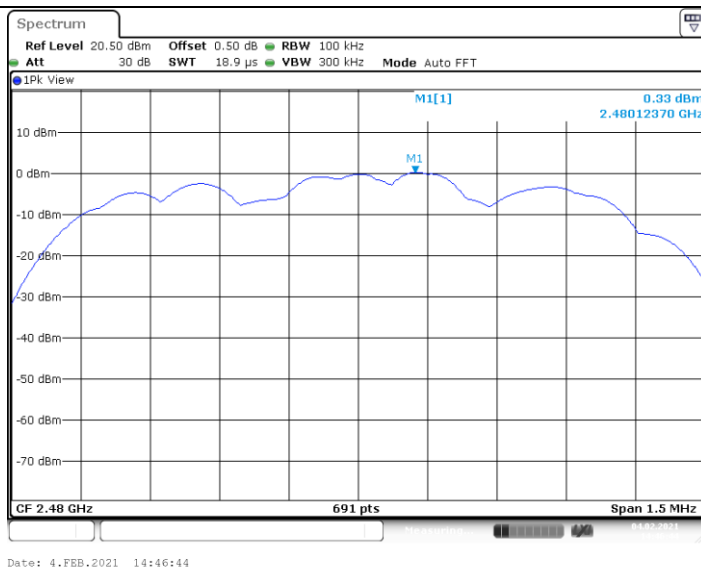
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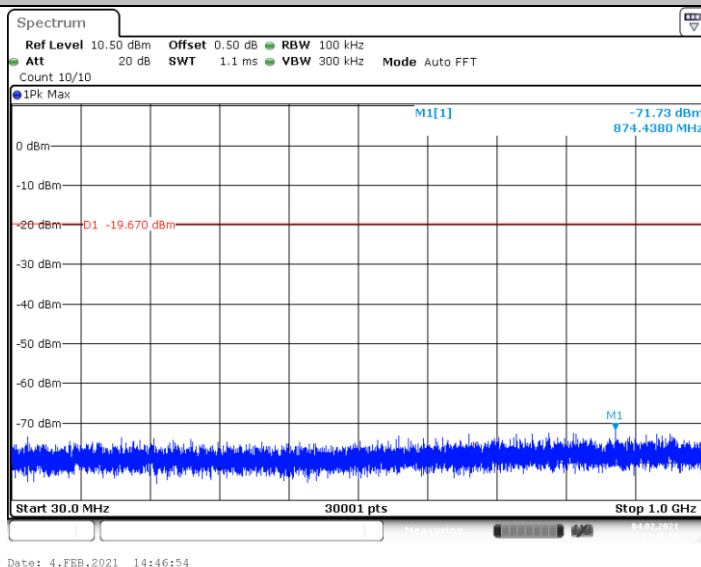
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8-DPSK_2402_0~Reference
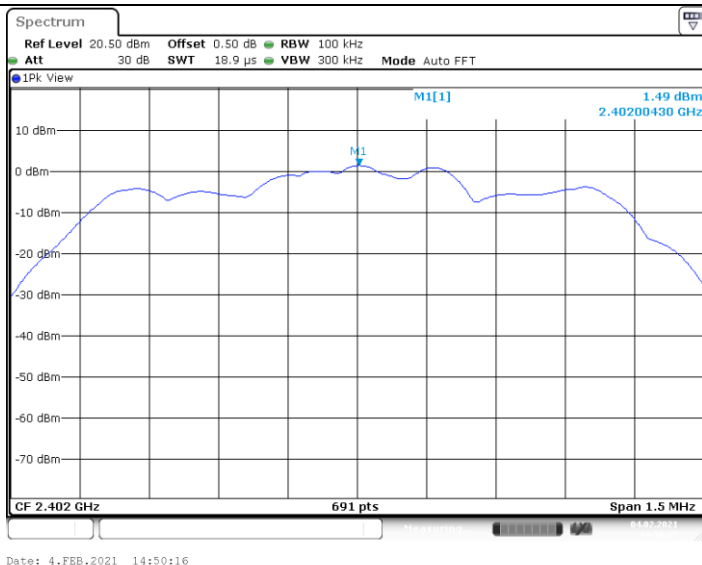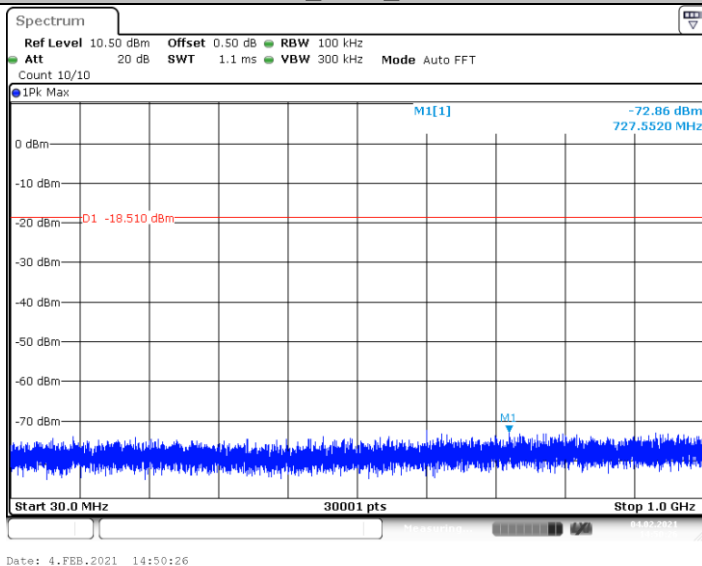
8-DPSK_2402_30~1000

8-DPSK_2402_1000~26500

8-DPSK_2441_0~Reference

Spectrum

Ref Level 20.50 dBm   Offset 0.50 dB ● RBW 100 kHz
● Att   30 dB   SWT   18.9 µs ● VBW 300 kHz   Mode Auto FFT
●1Pk View

M1[1]   0.96 dBm
                 2.44100220 GHz

CF 2.441 GHz   691 pts   Span 1.5 MHz

Date: 4.FEB.2021 14:52:37

8-DPSK_2441_30~1000

Spectrum

Ref Level 10.50 dBm   Offset 0.50 dB ● RBW 100 kHz
● Att   20 dB   SWT   1.1 ms ● VBW 300 kHz   Mode Auto FFT
Count 10/10
●1Pk Max

M1[1]   -71.95 dBm
                  880.4190 MHz

D1 -19.040 dBm

Start 30.0 MHz   30001 pts   Stop 1.0 GHz

Date: 4.FEB.2021 14:52:46

8-DPSK_2441_1000~26500

Spectrum

Ref Level 20.00 dBm   Offset 0.50 dB ● RBW 100 kHz
● Att   30 dB   SWT   255 ms ● VBW 300 kHz   Mode Auto Sweep
Count 10/10
●1Pk Max

M1[1]   -48.37 dBm
                  16.024600 GHz

D1 -19.040 dBm

Start 1.0 GHz   30001 pts   Stop 26.5 GHz

Date: 4.FEB.2021 14:53:14

8-DPSK_2480_0~Reference

8-DPSK_2480_30~1000

8-DPSK_2480_1000~26500

3.5. 20DB Bandwidth

Limit

N/A

Test Configuration

```
┌──────┐          ┌──────────────────┐
│ EUT  │──────────│ Spectrum Analyzer│
└──────┘          └──────────────────┘
```
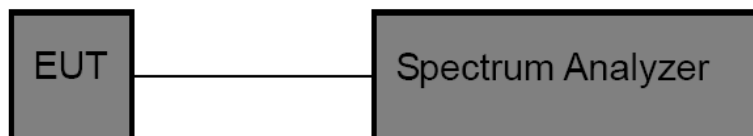
Test Procedure

5. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram above.
6. OCB and 20dB Spectrum Setting:
    (1) Set RBW = 1% ~ 5% occupied bandwidth.
    (2) Set the video bandwidth (VBW) ≥ 3 RBW.
    (3) Detector = Peak.
    (4) Trace mode = Max hold.
    (5) Sweep = Auto couple.

Note: The EUT was set to continuously transmitting in each mode and low, Middle and high channel for the test.

Test Mode

Please refer to the clause 2.4.

Test Results

Test Mode	Channel	20db EBW[MHz]	FL[MHz]	FH[MHz]	20dB Bandwidth *2/3 (kHz)	Verdict
GFSK	2402	0.816	2401.643	2402.459	544.00	PASS
	2441	0.816	2440.643	2441.459	544.00	PASS
	2480	0.819	2479.640	2480.459	546.00	PASS
π/4-DQPSK	2402	1.173	2401.415	2402.588	782.00	PASS
	2441	1.176	2440.412	2441.588	784.00	PASS
	2480	1.173	2479.409	2480.582	782.00	PASS
8-DPSK	2402	1.116	2401.442	2402.558	744.00	PASS
	2441	1.116	2440.439	2441.555	744.00	PASS
	2480	1.113	2479.439	2480.552	742.00	PASS

GFSK_2402

Date: 4.FEB.2021 14:28:13

GFSK_2441

Date: 4.FEB.2021 14:31:25

GFSK_2480

Date: 4.FEB.2021 14:33:46

π/4-DQPSK_2402

Date: 4.FEB.2021 14:38:33

π/4-DQPSK_2441

Date: 4.FEB.2021 14:43:07

π/4-DQPSK_2480

Date: 4.FEB.2021 14:45:16

8-DPSK_2402

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.401442 GHz	-18.94 dBm		
M2		1	2.402003 GHz	1.44 dBm		
D3	M1	1	1.116 MHz	-0.16 dB		

Date: 4.FEB.2021 14:48:48

8-DPSK_2441

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.440439 GHz	-19.33 dBm		
M2		1	2.441003 GHz	0.91 dBm		
D3	M1	1	1.116 MHz	-0.07 dB		

Date: 4.FEB.2021 14:52:16

8-DPSK_2480

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.479439 GHz	-19.63 dBm		
M2		1	2.48 GHz	0.54 dBm		
D3	M1	1	1.113 MHz	0.10 dB		

Date: 4.FEB.2021 14:54:39

3.6. Channel Separation

<u>Limit</u>

FCC CFR Title 47 Part 15 Subpart C Section 15.247 (a)(1)/ RSS-247 5.1 b :

Test Item	Limit	Frequency Range(MHz)
Channel Separation	>25KHz or >two-thirds of the 20 dB bandwidth Which is greater	2400~2483.5

<u>Test Configuration</u>
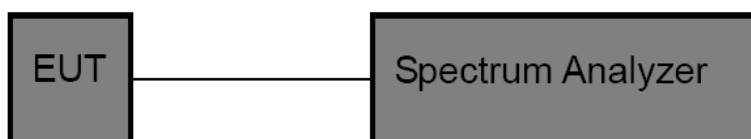
<u>Test Procedure</u>

7. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram above.
8. Spectrum Setting:
   (1) Set RBW = 100 kHz.
   (2) Set the video bandwidth (VBW) ≥ 3 RBW.
   (3) Detector = Peak.
   (4) Trace mode = Max hold.
   (5) Sweep = Auto couple.

<u>Test Mode</u>

Please refer to the clause 2.4.

Test Results

Test Mode	Channel	Result[MHz]	Limit[MHz]	Verdict
GFSK	Hop_2402	1.000	>544.00	PASS
	Hop_2441	1.000	>544.00	PASS
	Hop_2480	1.000	>546.00	PASS
π/4-DQPSK	Hop_2402	1.000	>782.00	PASS
	Hop_2441	1.004	>784.00	PASS
	Hop_2480	1.000	>782.00	PASS
8-DPSK	Hop_2402	1.004	>744.00	PASS
	Hop_2441	1.000	>744.00	PASS
	Hop_2480	1.000	>742.00	PASS

GFSK_Hop_2402
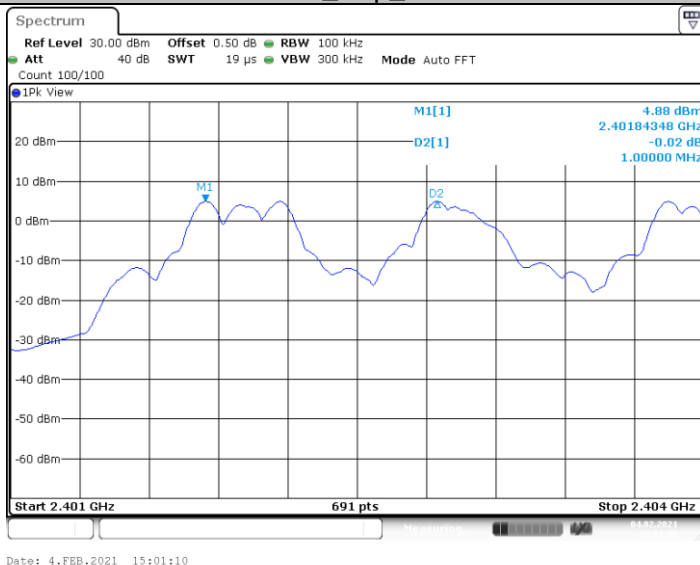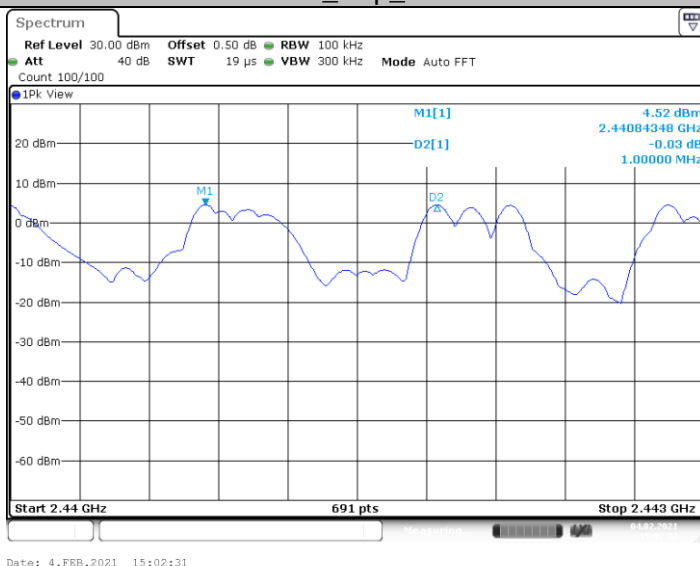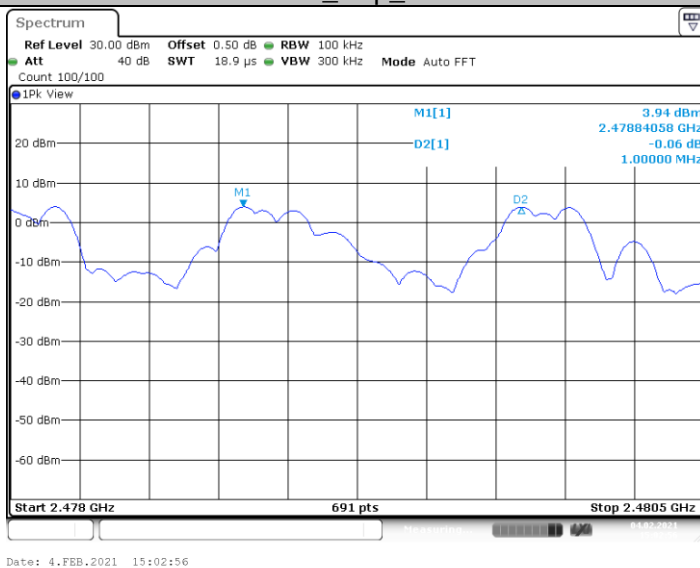
Date: 4.FEB.2021 15:01:10

GFSK_Hop_2441

Date: 4.FEB.2021 15:02:31

GFSK_Hop_2480

Date: 4.FEB.2021 15:02:56
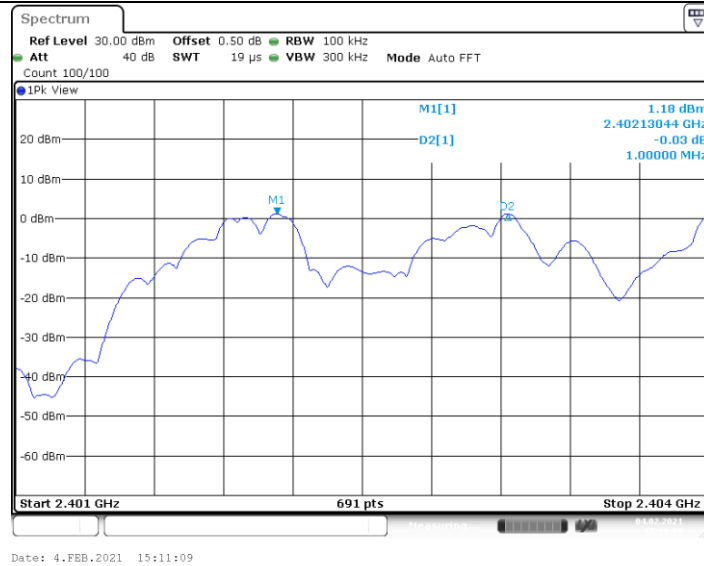
π/4-DQPSK_Hop_2402
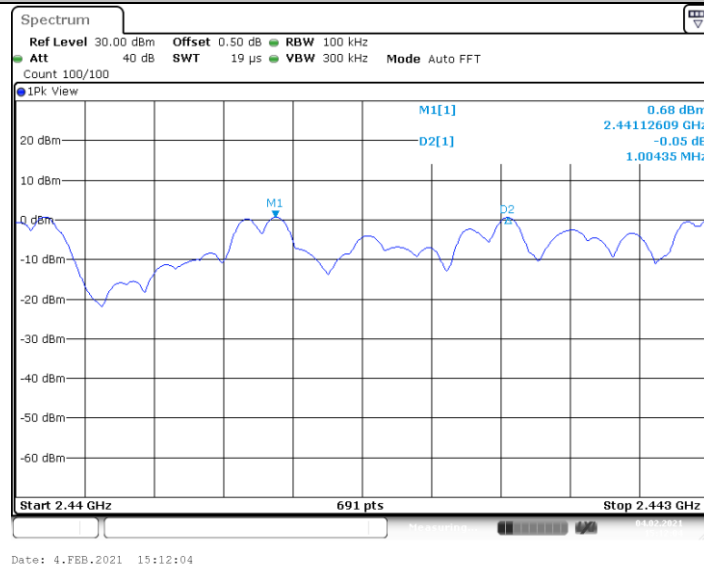
π/4-DQPSK_Hop_2441

π/4-DQPSK_Hop_2480

8-DPSK_Hop_2402
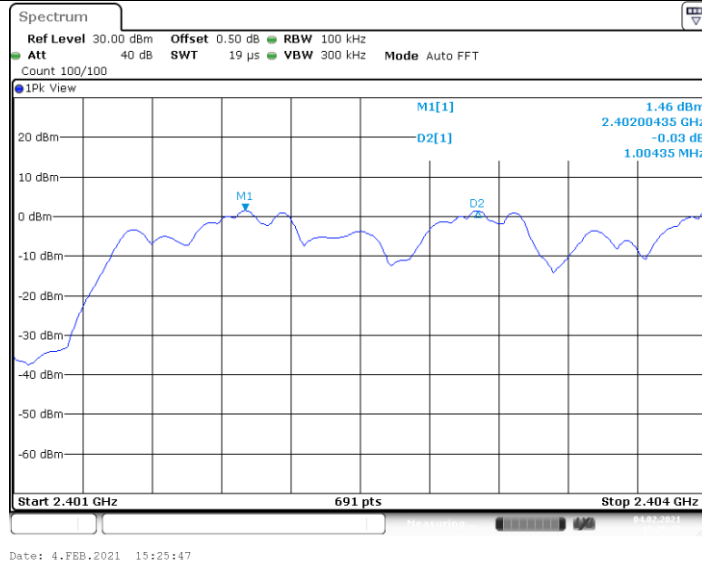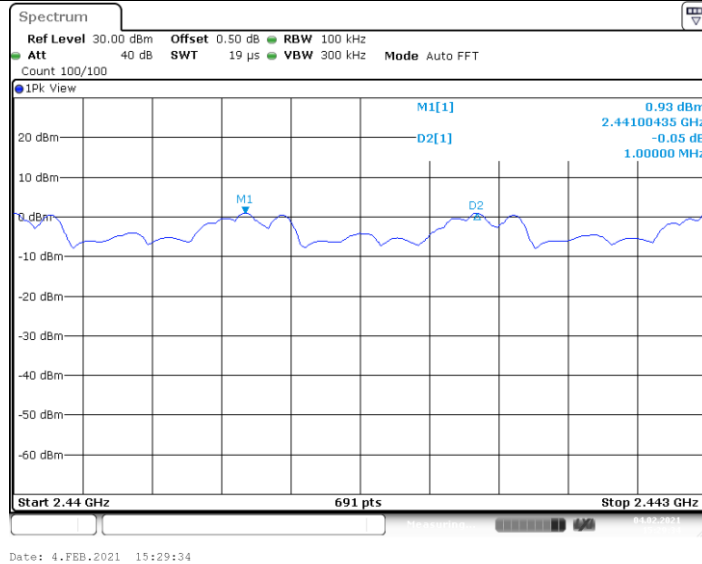
8-DPSK_Hop_2441

8-DPSK_Hop_2480
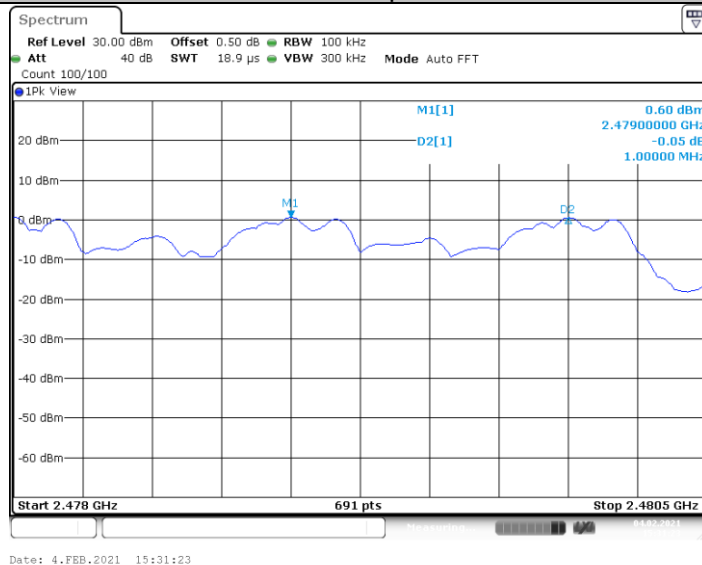
3.7. Number of Hopping Channel

Limit

FCC CFR Title 47 Part 15 Subpart C Section 15.247 (a)(iii)/ RSS-247 5.1 d:

Section	Test Item	Limit
15.247 (a)(iii)/ RSS-247 5.1 d:	Number of Hopping Channel	>15

Test Configuration
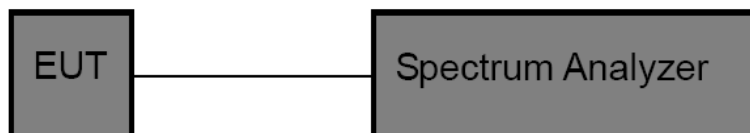
Test Procedure

1. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram above.
2. Spectrum Setting:
   (1) Peak Detector: RBW=100 kHz, VBW≥RBW, Sweep time= Auto.
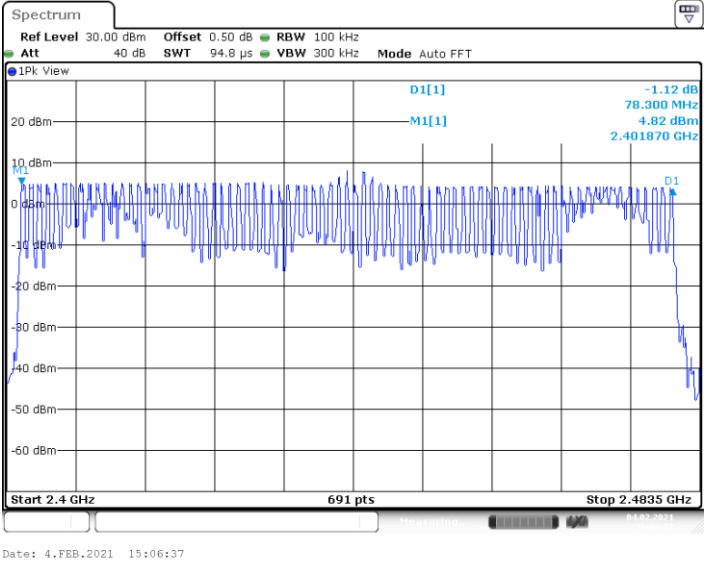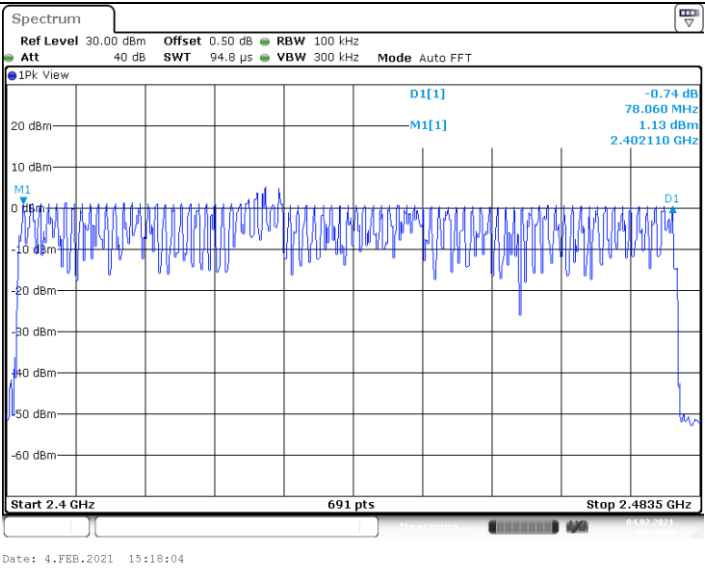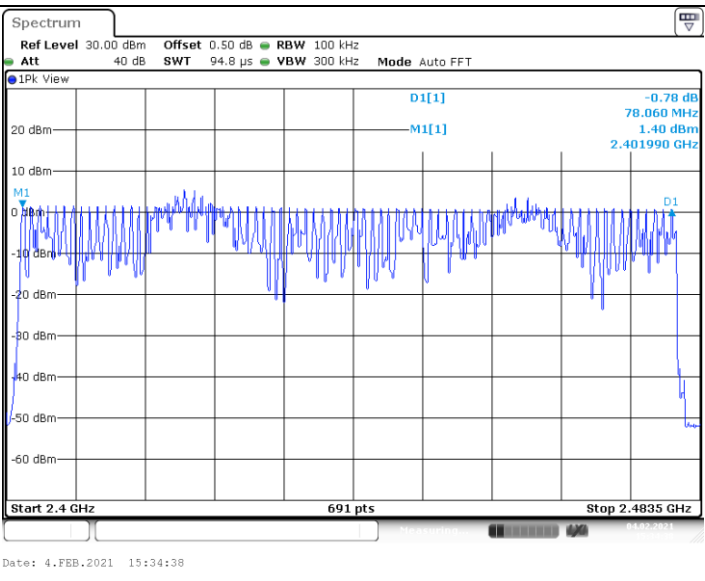
Test Mode

Please refer to the clause 2.4.

Test Result

Modulation type	Channel number	Limit	Result
GFSK	79		
π/4-DQPSK	79	≥15.00	Pass
8DPSK	79		

CTC Laboratories, Inc.
1-2/F., Building 2, Jiaquan Building, Guanlan High-Tech Park, Shenzhen, Guangdong, China
Tel.: (86)755-27521059   Fax: (86)755-27521011   Http://www.sz-ctc.org.cn
For anti-fake verification, please visit the official website of Certification and Ac-
creditation Administration of the People's Republic of China : yz.cnca.cn
中国国家认证认可监督管理委员会

GFSK	
π/4-DQPSK	
8-DPSK	

3.8. Dwell Time

Limit

Section	Test Item	Limit
15.247(a)(iii)/ RSS-247 5.1 d	Average Time of Occupancy	0.4 sec

Test Configuration
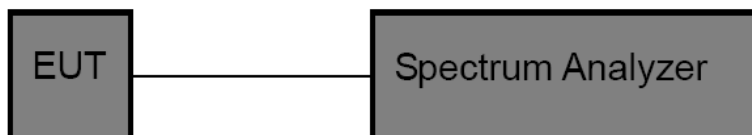
Test Procedure

1. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram above.
2. Spectrum Setting:
   (1) Spectrum Setting: RBW=1MHz, VBW≥RBW.
   (2) Use video trigger with the trigger level set to enable triggering only on full pulses.
   (3) Sweep Time is more than once pulse time.
   (4) Set the center frequency on any frequency would be measure and set the frequency span to zero.
   (5) Measure the maximum time duration of one single pulse.
   (6) Set the EUT for packet transmitting.

Test Mode

Please refer to the clause 2.4.

Test Result
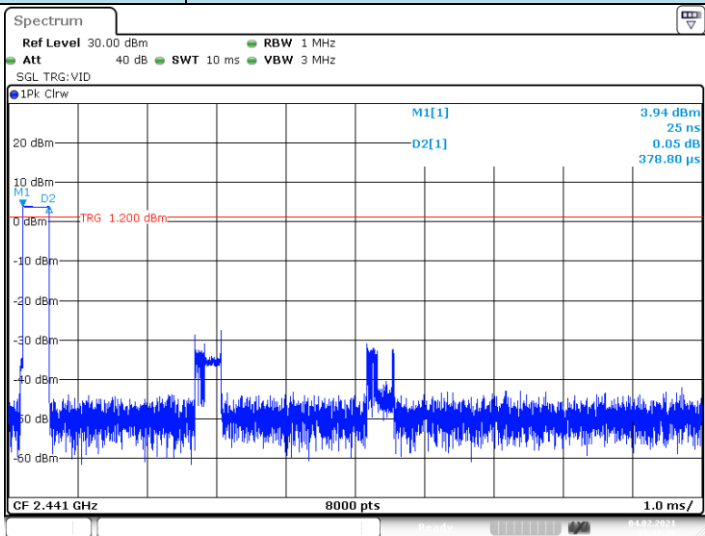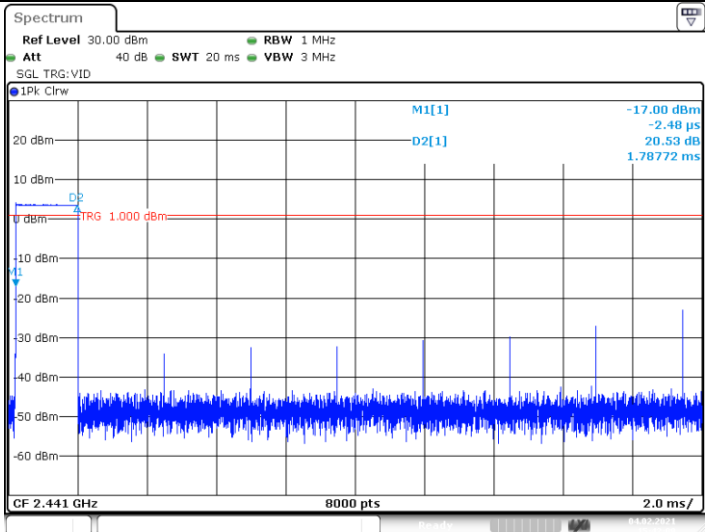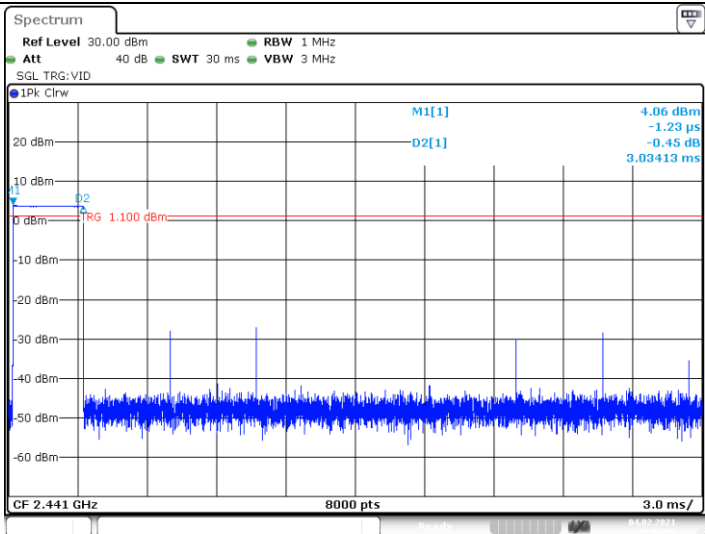
Modulation type	Channel	Channel (MHz)	Pulse Time (ms)	Total of Dwell (ms)	Period Time (ms)	Limit (Second)	Result
GFSK	DH1	2441	0.38	121.60	31.60	≤ 0.40	Pass
GFSK	DH3	2441	1.79	286.40	31.60	≤ 0.40	Pass
GFSK	DH5	2441	3.03	323.20	31.60	≤ 0.40	Pass
π/4-DQPSK	2DH1	2441	0.39	124.80	31.60	≤ 0.40	Pass
π/4-DQPSK	2DH3	2441	1.63	260.80	31.60	≤ 0.40	Pass
π/4-DQPSK	2DH5	2441	2.88	307.20	31.60	≤ 0.40	Pass
8-DPSK	3DH1	2441	0.39	124.80	31.60	≤ 0.40	Pass
8-DPSK	3DH3	2441	1.63	260.80	31.60	≤ 0.40	Pass
8-DPSK	3DH5	2441	2.88	307.20	31.60	≤ 0.40	Pass

Note: 1DH1/2DH1/3DH1 Total of Dwell= Pulse Time*(1600/2)*31.6/79
1DH3/2DH3/3DH3 Total of Dwell= Pulse Time*(1600/4)*31.6/79
1DH5/2DH5/3DH5 Total of Dwell= Pulse Time*(1600/6)*31.6/79
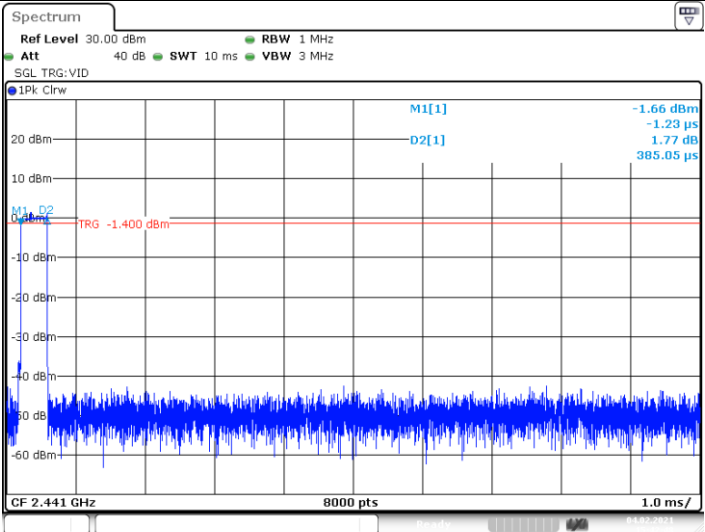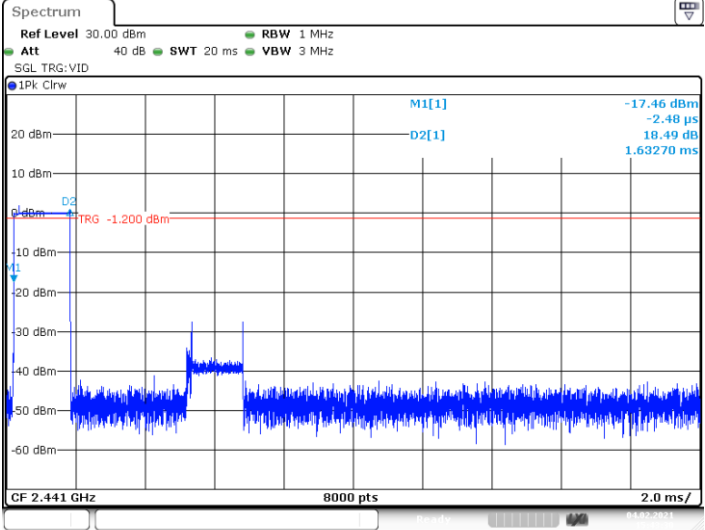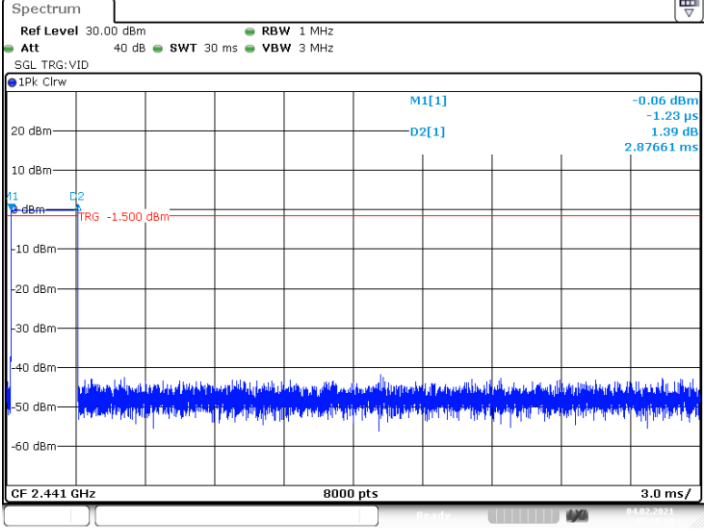
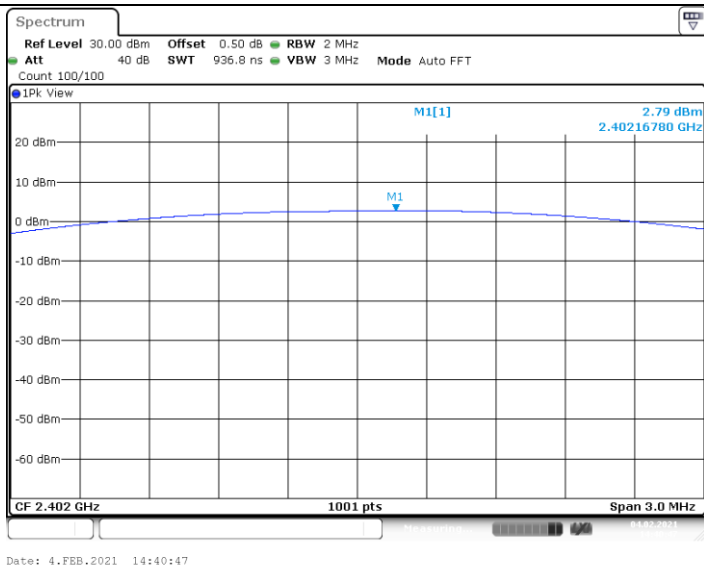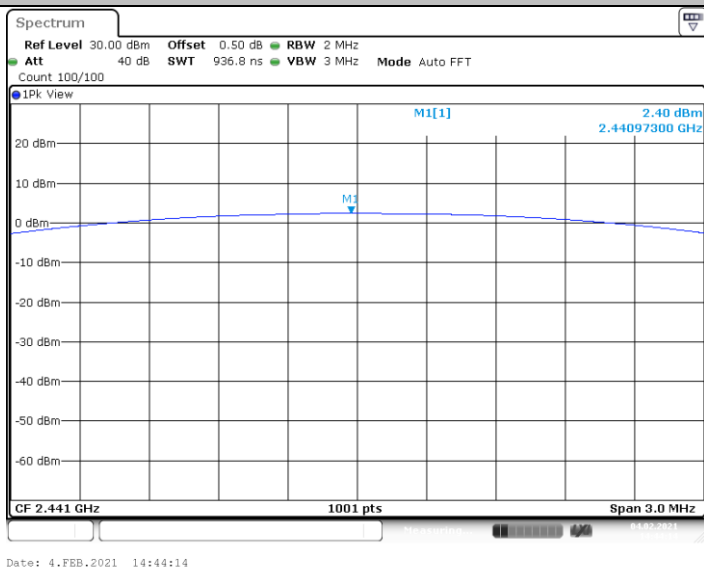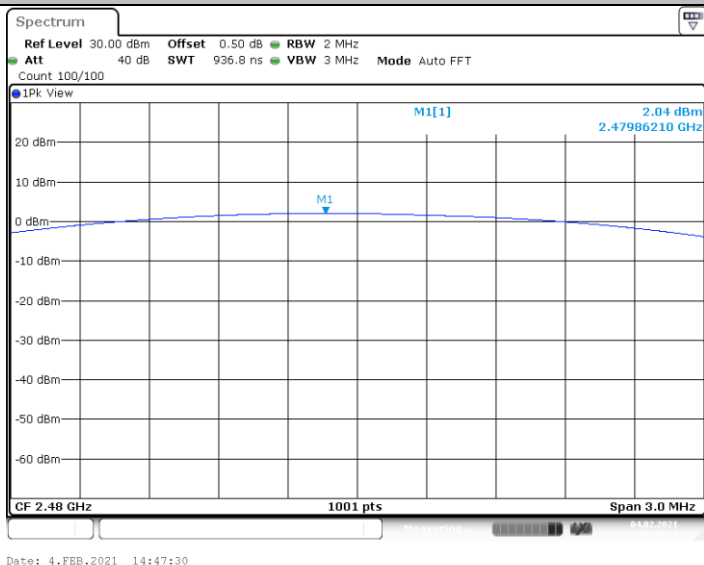| Modulation Type:	GFSK
DH1	
DH3	
DH5	

CTC Laboratories, Inc.

1-2/F., Building 2, Jiaquan Building, Guanlan High-Tech Park, Shenzhen, Guangdong, China

Tel.: (86)755-27521059   Fax: (86)755-27521011   Http://www.sz-ctc.org.cn

For anti-fake verification, please visit the official website of Certification and Accreditation Administration of the People's Republic of China : yz.cnca.cn

Modulation Type:	π/4-DQPSK
2DH1	
2DH3	
2DH5	

Modulation Type:	8-DPSK
3DH1	
3DH3	
3DH5	

3.9. Peak Output Power

Limit

FCC CFR Title 47 Part 15 Subpart C Section 15.247 (b)(1) / RSS-247 5.4 b:

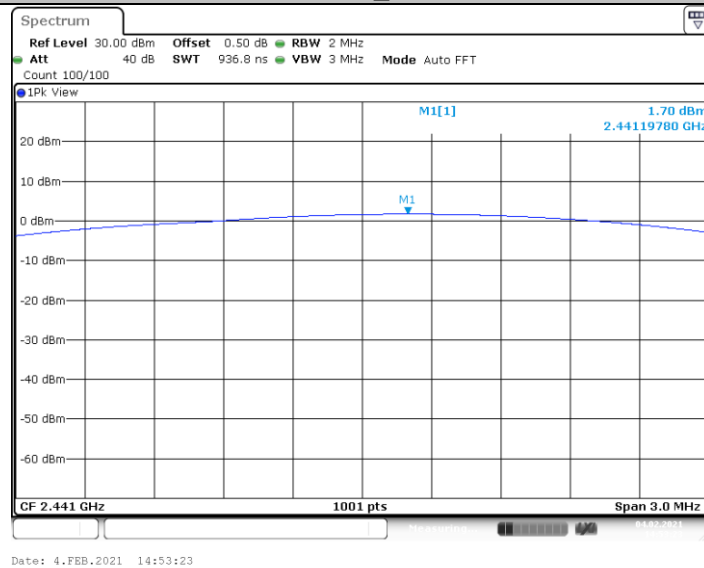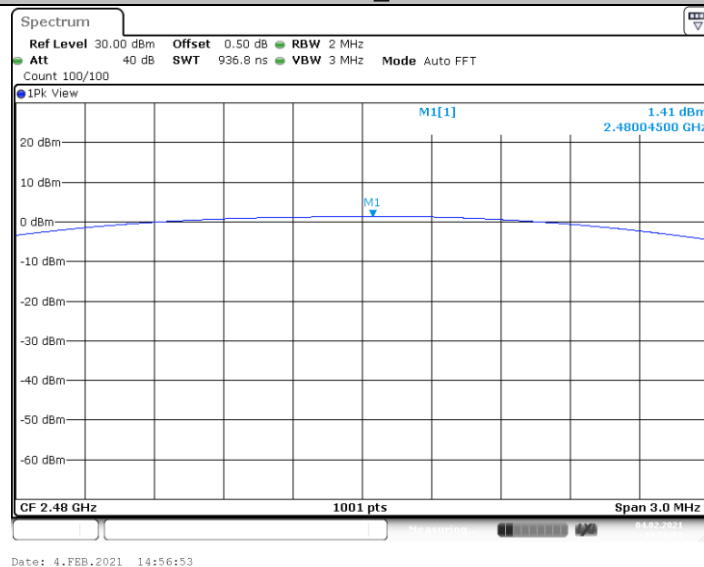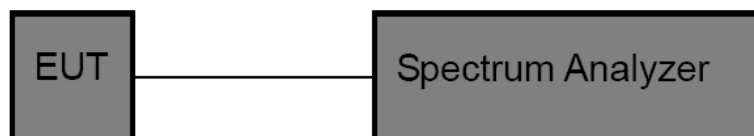| Test Item	Limit	Frequency Range(MHz)
Peak Output Power	Hopping Channels>75 Power<1W(30dBm) Other <125mW(21dBm)	2400~2483.5

Test Configuration
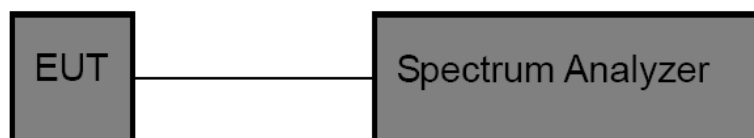
Test Procedure

1.   The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram above.

2.   Spectrum Setting:

    (1)   Set RBW> 20DB Bandwidth.

    (2)   Set the video bandwidth (VBW) ≥ RBW.

    (3)   Detector = Peak.

    (4)   Trace mode = Max hold.

    (5)   Sweep = Auto couple.

Test Mode

    Please refer to the clause 2.4.

Test Result

Test Mode	Channel	Result[dBm]	Limit[dBm]	Verdict
GFSK	2402	4.95	<=30	PASS
	2441	4.62	<=30	PASS
	2480	4.02	<=30	PASS
π/4-DQPSK	2402	2.79	<=30	PASS
	2441	2.40	<=30	PASS
	2480	2.04	<=30	PASS
8-DPSK	2402	3.15	<=30	PASS
	2441	1.70	<=30	PASS
	2480	1.41	<=30	PASS
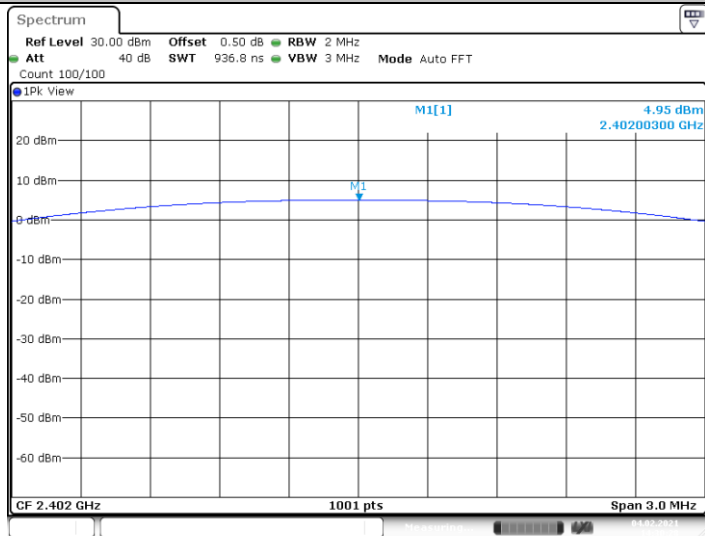
GFSK_2402
 Date: 4.FEB.2021 14:30:27
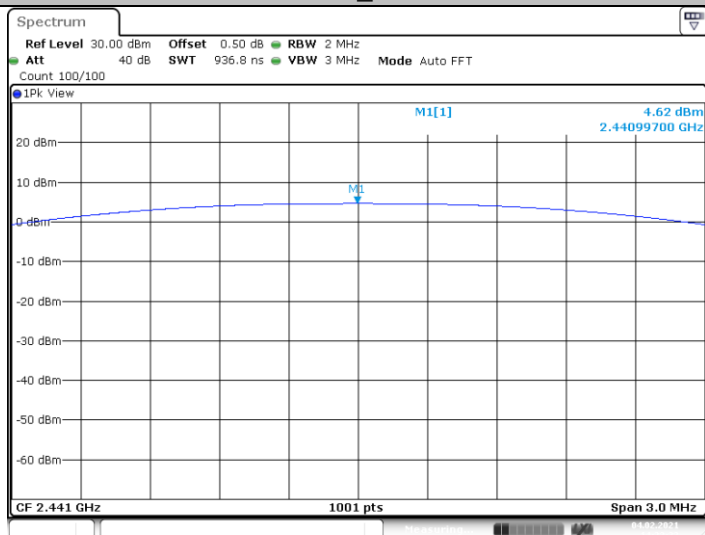
GFSK_2441
 Date: 4.FEB.2021 14:32:32

GFSK_2480
 Date: 4.FEB.2021 14:36:00

π/4-DQPSK_2402

π/4-DQPSK_2441

π/4-DQPSK_2480

8-DPSK_2402

8-DPSK_2441

8-DPSK_2480

3.10. Duty Cycle

Limit

None, for report purposes only.

Test Configuration

```
┌─────────┐           ┌──────────────────────┐
│   EUT   ├───────────┤   Spectrum Analyzer  │
└─────────┘           └──────────────────────┘
```

Test Procedure

1.   The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram above.
2.   The EUT was directly connected to the Spectrum Analyzer and antenna output port as show in the block diagram above. The measurement according to section 10.2 of KDB 558074 D01 DTS Meas Guidance v05r02.
3.   Spectrum Setting:
Set analyzer center frequency to test channel center frequency.
Set the span to 0Hz
Set the RBW to 10MHz
Set the VBW to 10MHz
Detector: Peak
Sweep time: Auto

Allow trace to fully stabilize. Then use the peak marker function to determine the maximum amplitude level.

Test Mode

Please refer to the clause 2.4.

Test Result

| Test Mode	Channel	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	1/T Minimum VBW (kHz)	Final setting For VBW (kHz)
GFSK	2402	2.868	3.728	76.93	0.35	1
	2441	2.867	3.727	76.92	0.35	1
	2480	2.868	3.727	76.95	0.35	1
π/4-DQPSK	2402	2.870	3.728	77.00	0.35	1
	2441	2.870	3.728	77.00	0.35	1
	2480	2.870	3.728	77.00	0.35	1
8-DPSK	2402	2.870	3.727	77.06	0.35	1
	2441	2.873	3.728	77.05	0.35	1
	2480	2.872	3.727	77.09	0.35	1

GFSK _2402
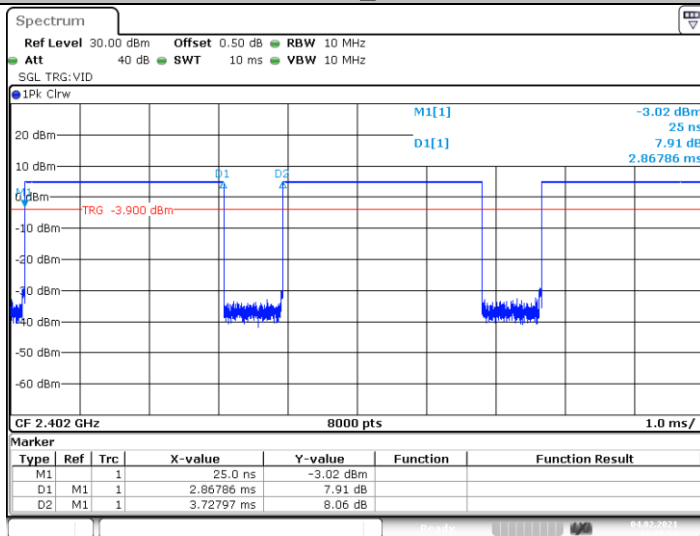
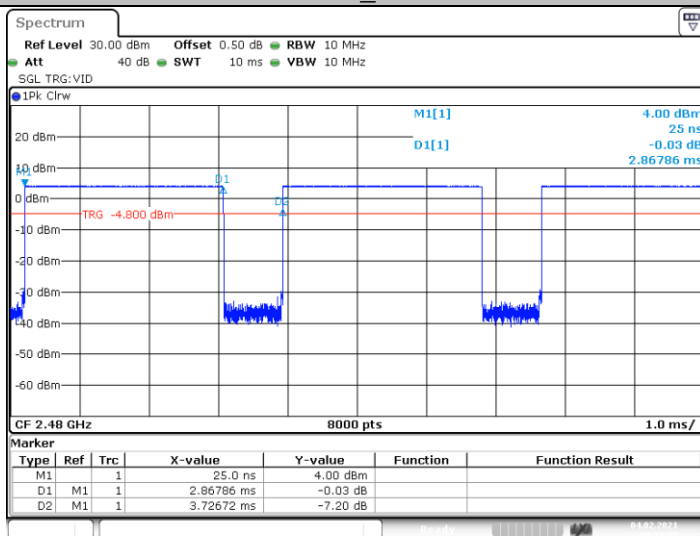
Date: 4.FEB.2021 14:27:51

GFSK _2441
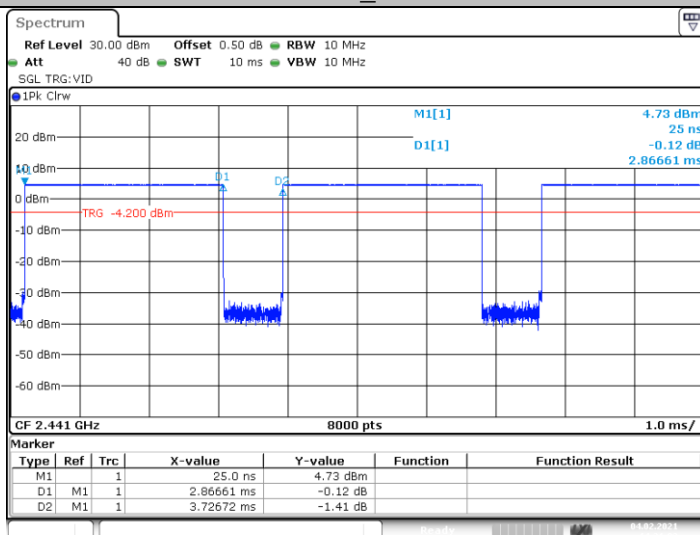
Date: 4.FEB.2021 14:31:02

GFSK _2480

Date: 4.FEB.2021 14:33:23

π/4-DQPSK_2402

π/4-DQPSK_2441
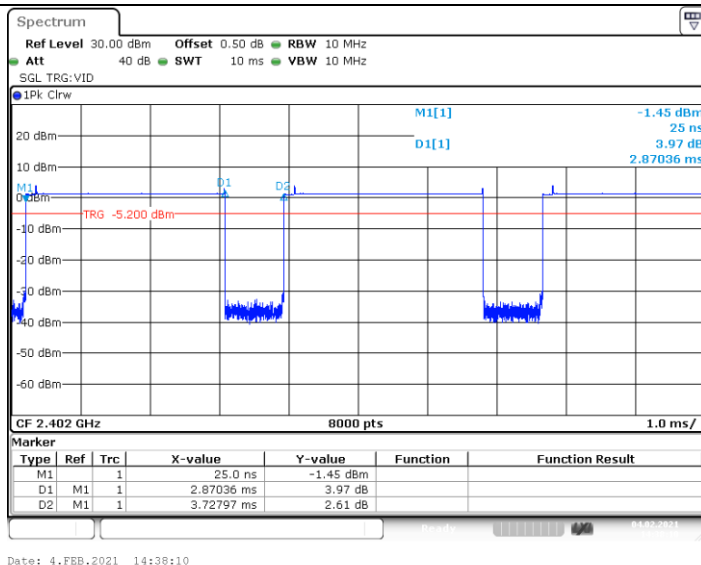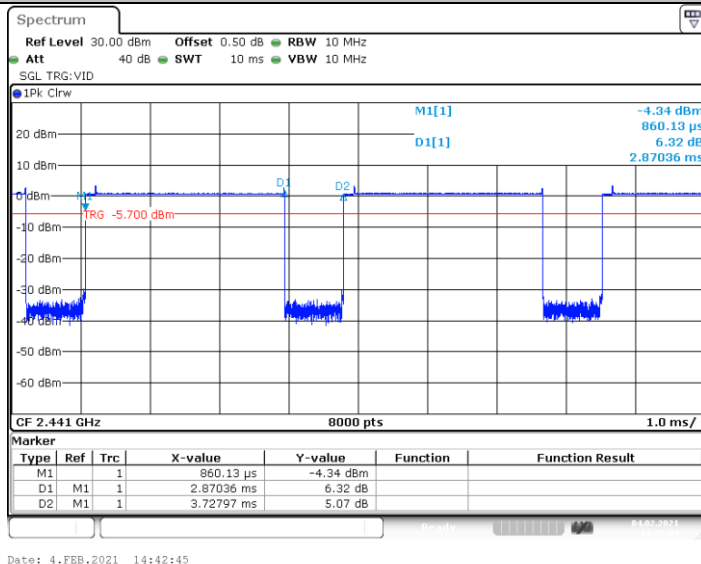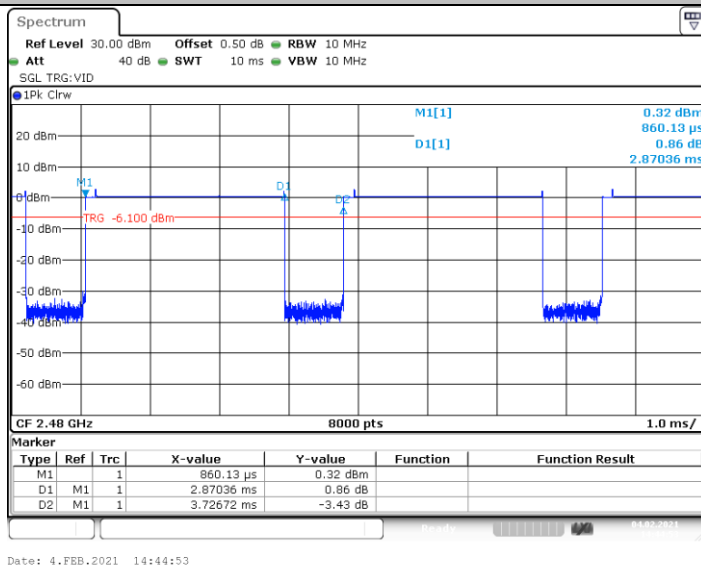

π/4-DQPSK_2480

8-DPSK_2402

Date: 4.FEB.2021 14:48:25

8-DPSK_2441

Date: 4.FEB.2021 14:51:53

8-DPSK_2480

Date: 4.FEB.2021 14:54:16

3.11. Antenna Requirement

Requirement

FCC CFR Title 47 Part 15 Subpart C Section 15.203:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

FCC CFR Title 47 Part 15 Subpart C Section 15.247(c) (1)(i):

(i) Systems operating in the 2400~2483.5 MHz band that is used exclusively for fixed. Point-to-point operations may employ transmitting antennas with directional gain greater than 6dBi provided the maximum conducted output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6dBi.

Test Result

The test result is PASS, because the directional gain of the antenna less than 6dBi, please refer to the EUT internal photographs antenna photo.

*********************THE END*********************