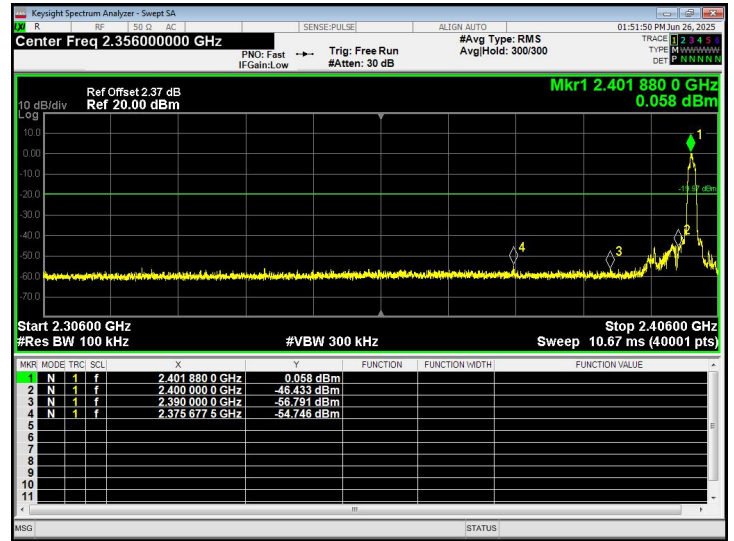
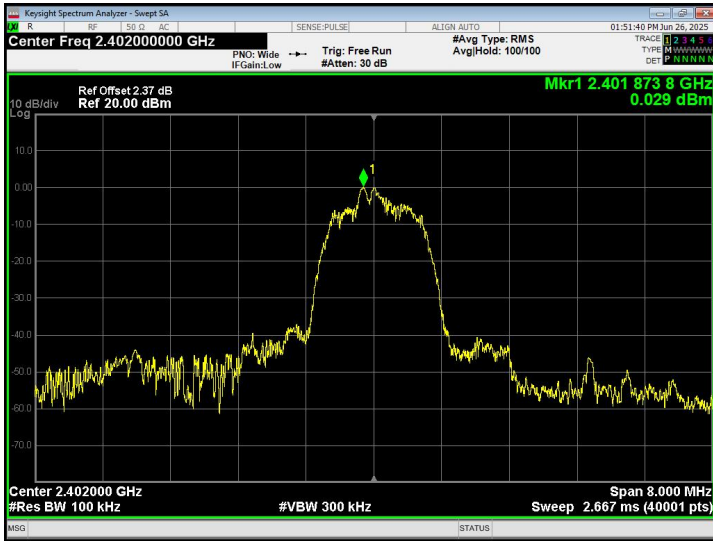
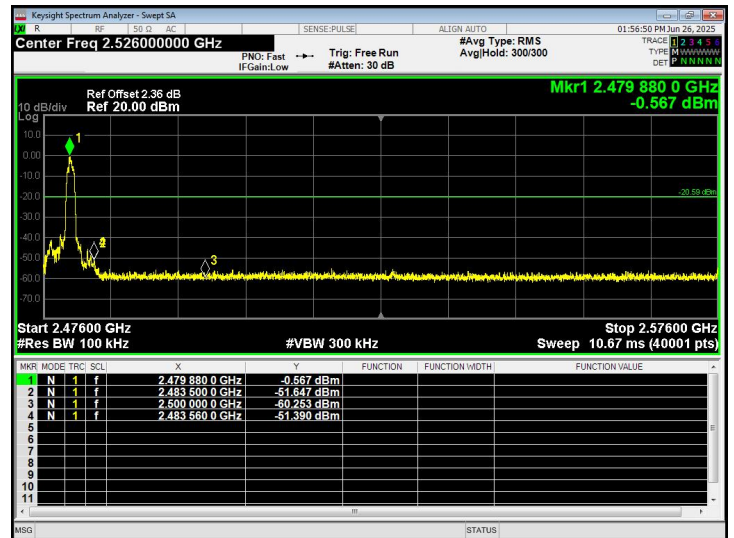


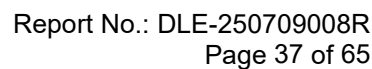


$\pi/4$ -DQPSK - 2-DH1
No-hopping Band edge-left side

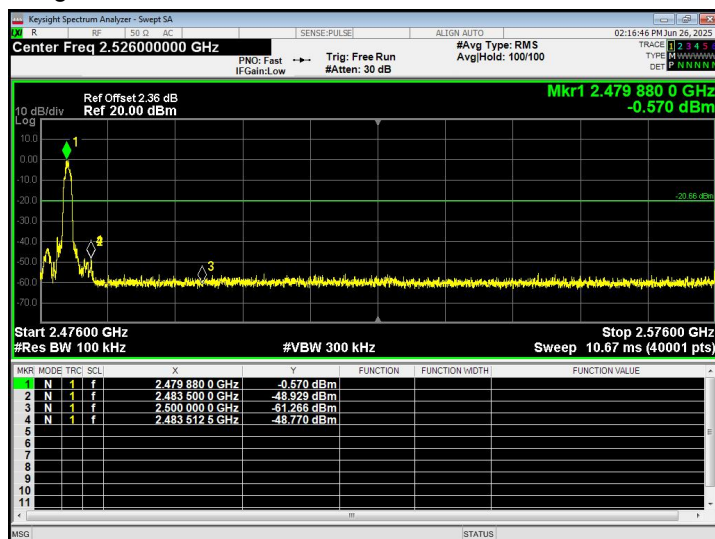


No-hopping Band edge-right side





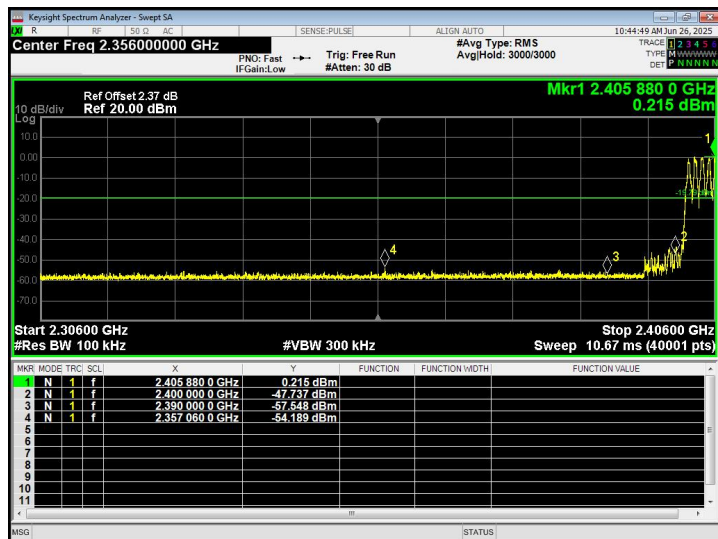
No-hopping Band edge-left side



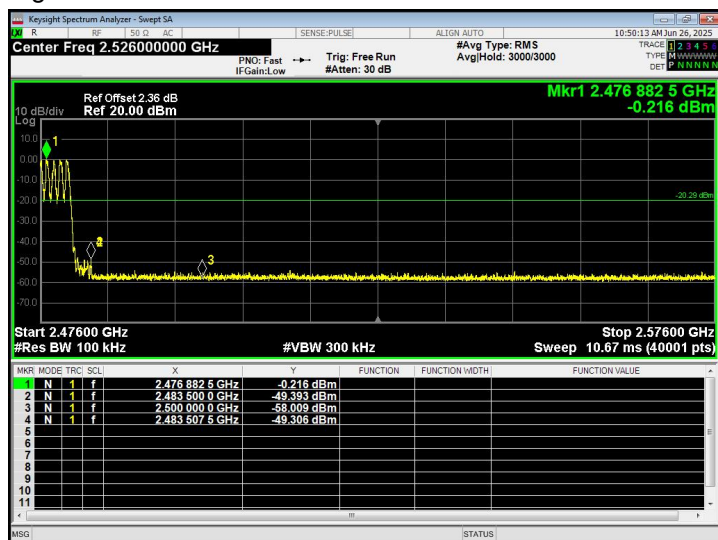


GFSK - 1-DH1

Hopping Band edge-left side

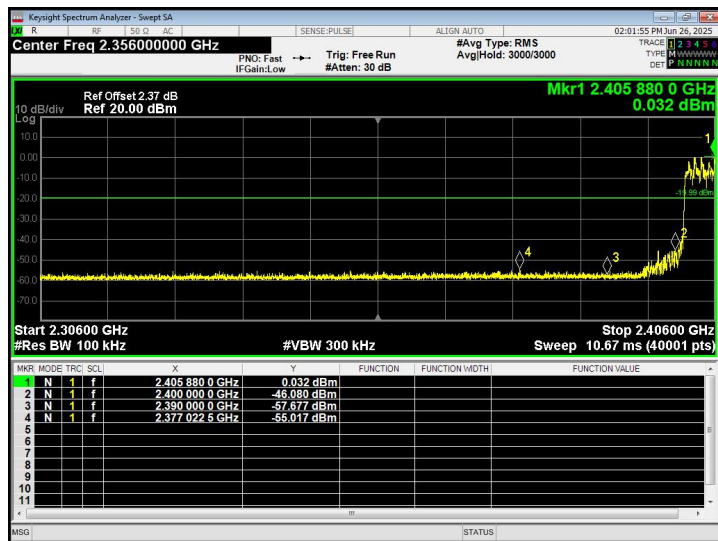


Hopping Band edge-left side

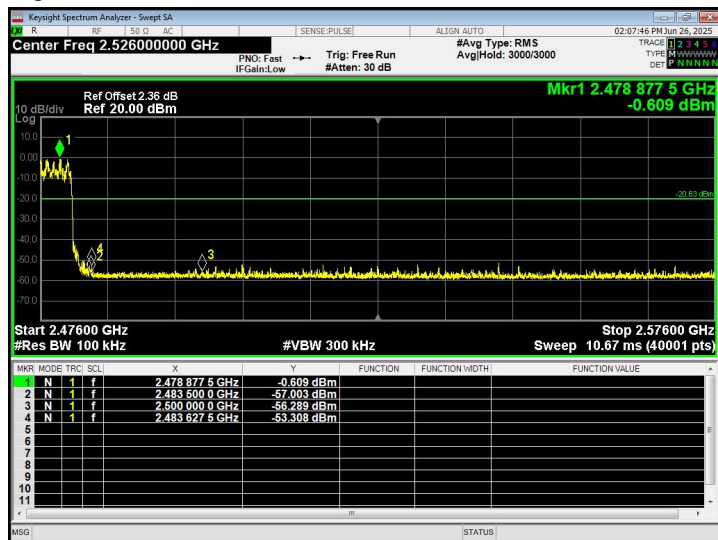


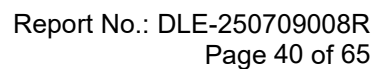


$\pi/4$ -DQPSK - 2-DH1
Hopping Band edge-left side

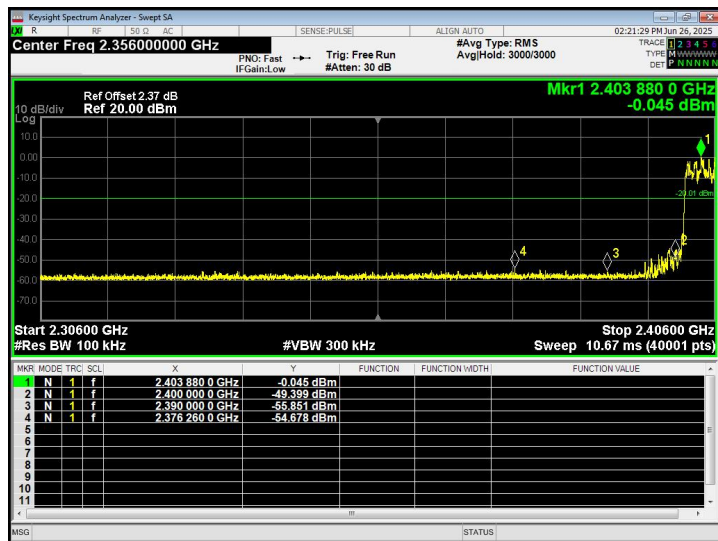


Hopping Band edge-left side





Hopping Band edge-left side



Keysight Spectrum Analyzer - Swept SA

Center Freq 2.526000000 GHz

PNO: Fast IF Gain: Low Trig: Free Run #Atten: 30 dB

#Avg Type: RMS Avg/Hold: 3000/3000

02:27:16 PM Jun 28, 2025

TRACE 1 2.14.1 TYPE M WWWW DET P NNNNN

10 dB/div Ref Offset 2.35 dB Ref 20.00 dBm

Mkr1 2.477 887 5 GHz -0.724 dBm

Start 2.47600 GHz #Res BW 100 kHz #VBW 300 kHz Stop 2.57600 GHz Sweep 10.67 ms (40001 pts)

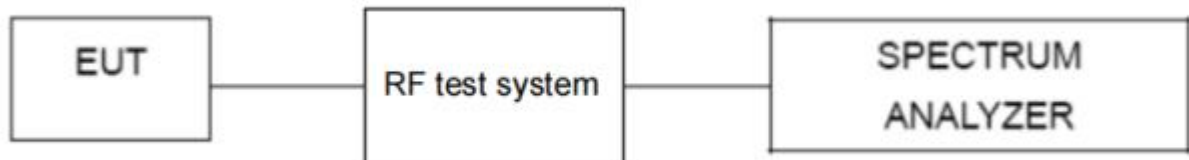
MNR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	1	f	2.477 887 5 GHz	-0.724 dBm			
2	N	1	f	2.483 500 0 GHz	-56.198 dBm			
3	N	1	f	2.500 000 0 GHz	-57.803 dBm			
4	N	1	f	2.499 202 5 GHz	-53.376 dBm			



7. 20DB OCCUPIED BANDWIDTH

Test Requirement:	FCC Part15 C Section 15.247 (a)(1)
Test Method:	ANSI C63.10:2013

7.1 TEST SETUP



7.2 LIMIT

N/A

7.3 TEST PROCEDURE

1. Set RBW = 30 kHz.
2. Set the video bandwidth (VBW) $\geq 3 \times$ RBW.
3. Detector = Peak.
4. Trace mode = max hold.
5. Sweep = auto couple.
6. Allow the trace to stabilize.
7. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 20 dB relative to the maximum level measured in the fundamental emission.

7.4 DEVIATION FROM STANDARD

No deviation.



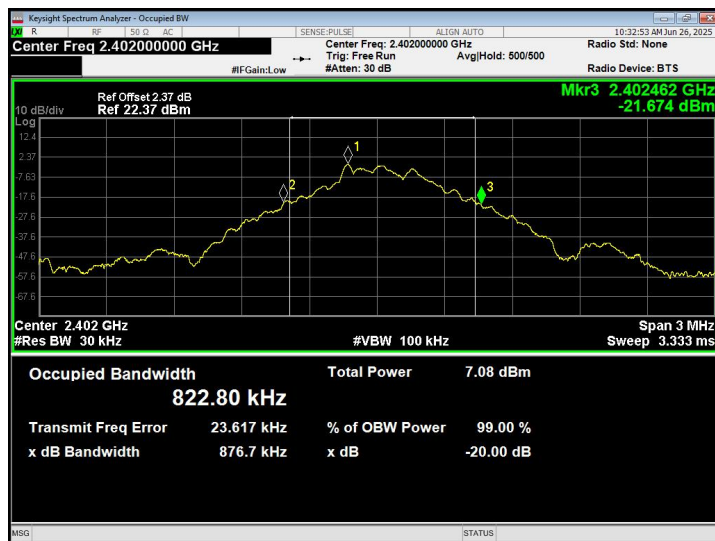
7.5 TEST RESULT

Modulation	Packet	Test Channel	20dB Occupied Bandwidth (MHz)	Result
GFSK	1-DH1	Lowest	0.877	Pass
		Middle	0.874	
		Highest	0.876	
$\pi/4$ -DQPSK	2-DH1	Lowest	1.253	Pass
		Middle	1.252	
		Highest	1.246	
8-DPSK	3-DH1	Lowest	1.249	Pass
		Middle	1.221	
		Highest	1.240	



GFSK - 1-DH1 Test plots

Low Channel



Middle Channel



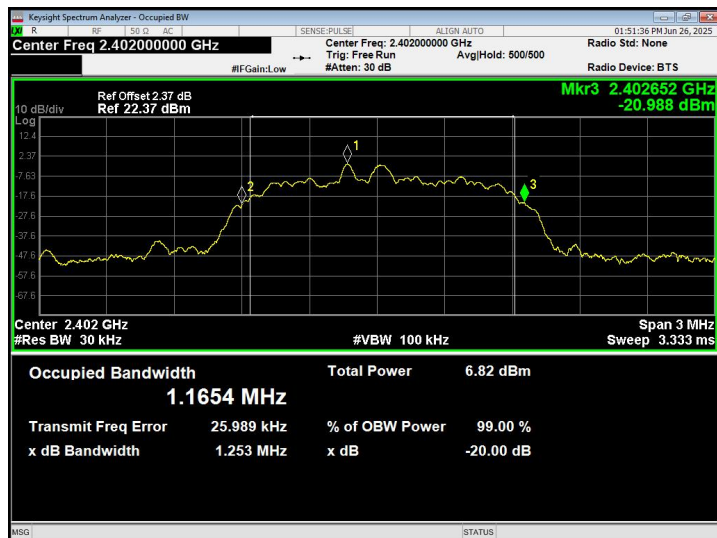
High Channel



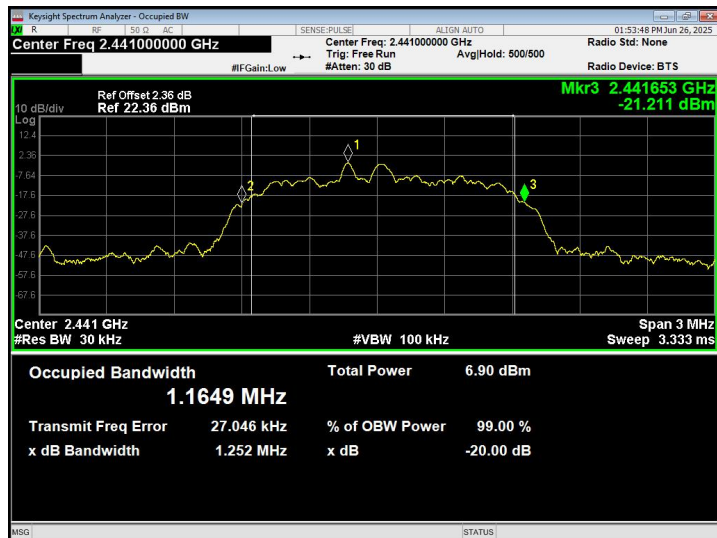


$\pi/4$ -DQPSK - 2-DH1 Test plots

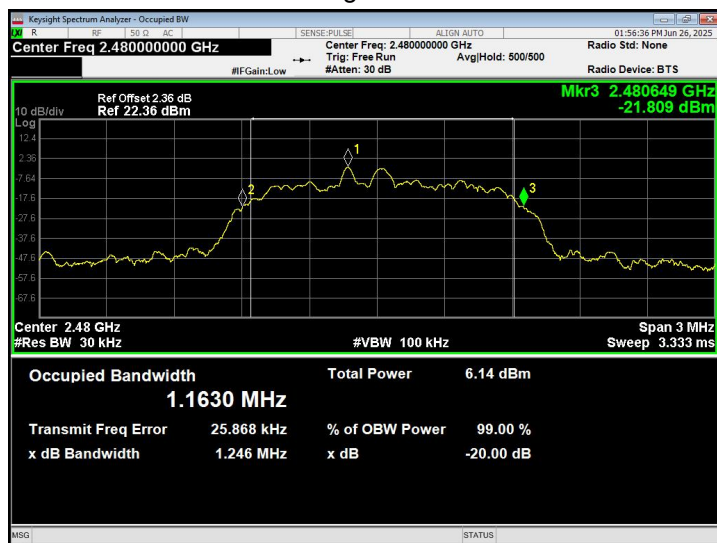
Low Channel



Middle Channel



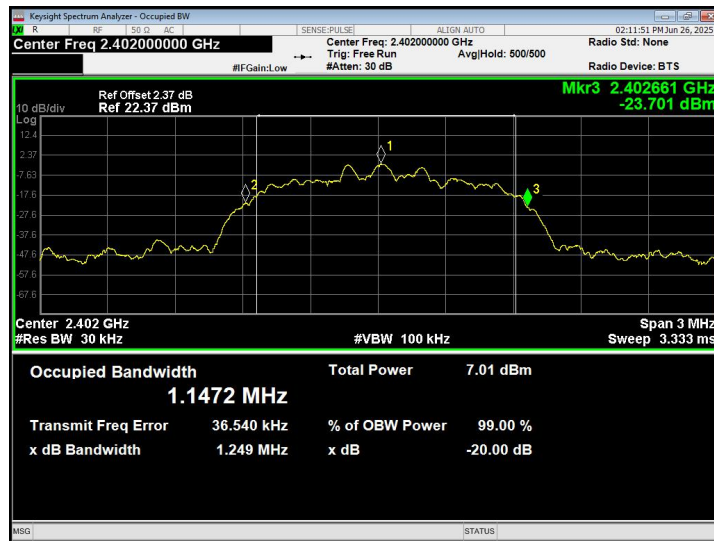
High Channel



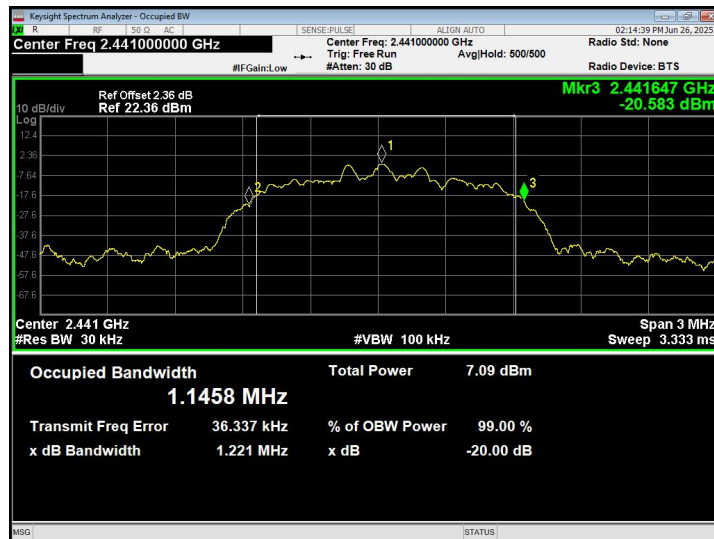


8-DPSK - 3-DH1 Test plots

Low Channel



Middle Channel



High Channel

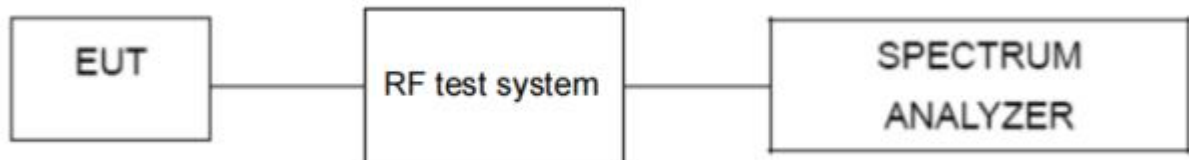




8. Maximum Peak Output Power

Test Requirement:	FCC Part15 C Section 15.247 (b)(1)
Test Method:	ANSI C63.10:2013
Limit:	GFSK: 30dBm $\pi/4$ -DQPSK & 8-DPSK: 20.97 dBm

8.1 BLOCK DIAGRAM OF TEST SETUP



8.2 LIMIT

For frequency hopping systems operating in the 2400-2483.5 MHz band employing at least 75 non-overlapping hopping channels, and all frequency hopping systems in the 5725-5850 MHz band: 1 watt.
For all other frequency hopping systems in the 2400-2483.5 MHz band: 0.125 watts.

8.3 TEST PROCEDURE

1. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum.
2. Set the spectrum analyzer: RBW = 2MHz. VBW =6MHz. Sweep = auto; Detector Function = Peak.
3. Keep the EUT in transmitting at lowest, medium and highest channel individually. Record the max value.

8.4 DEVIATION FROM STANDARD

No deviation.