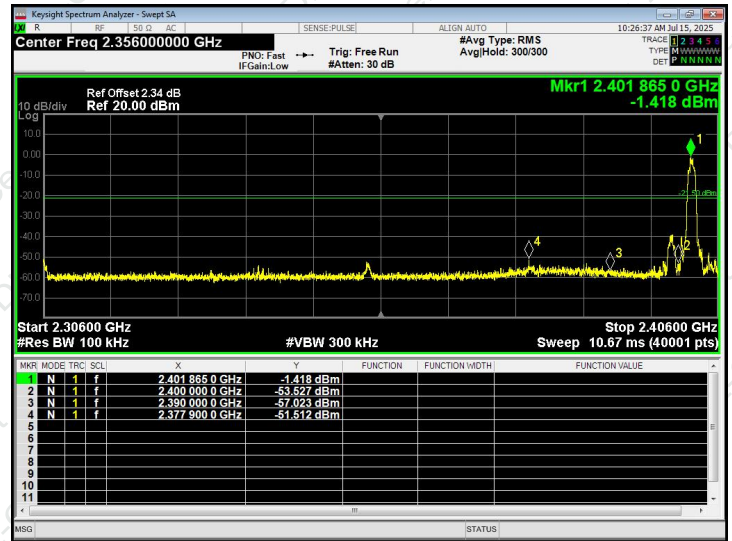
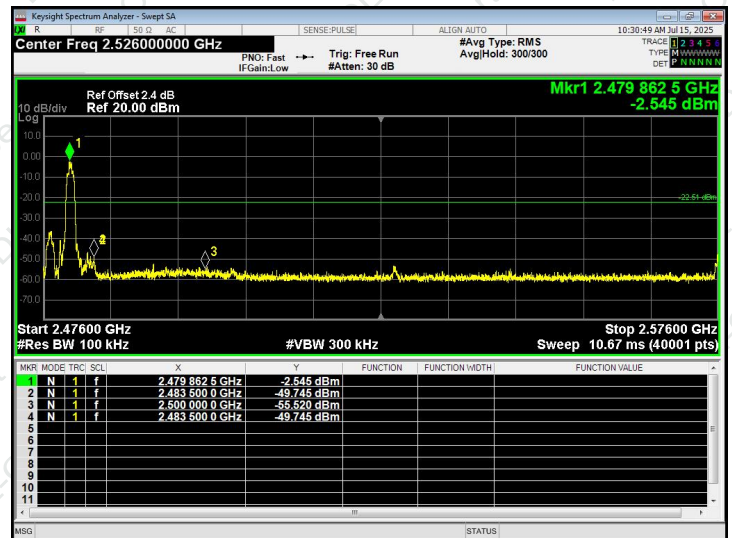


 $\pi/4$ -DQPSK - 2-DH1

No-hopping Band edge-left side



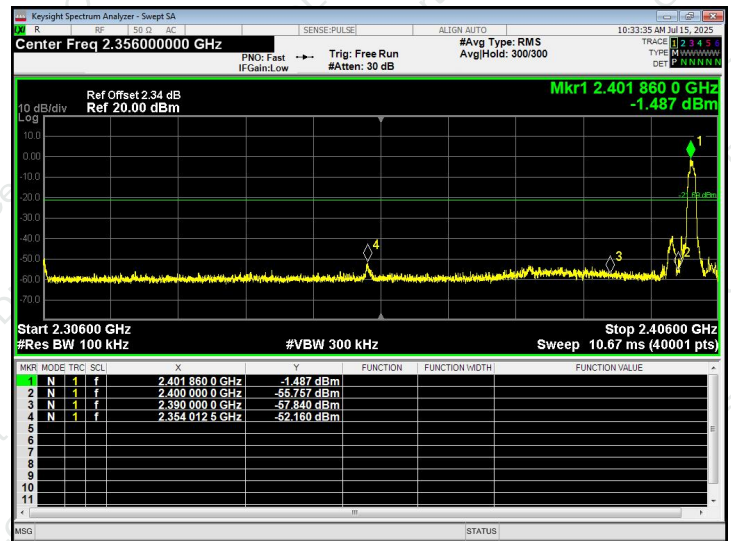
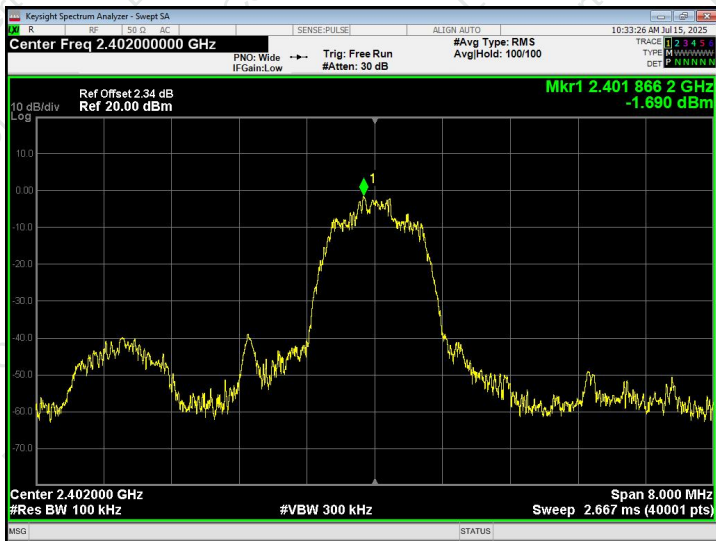
No-hopping Band edge-right side



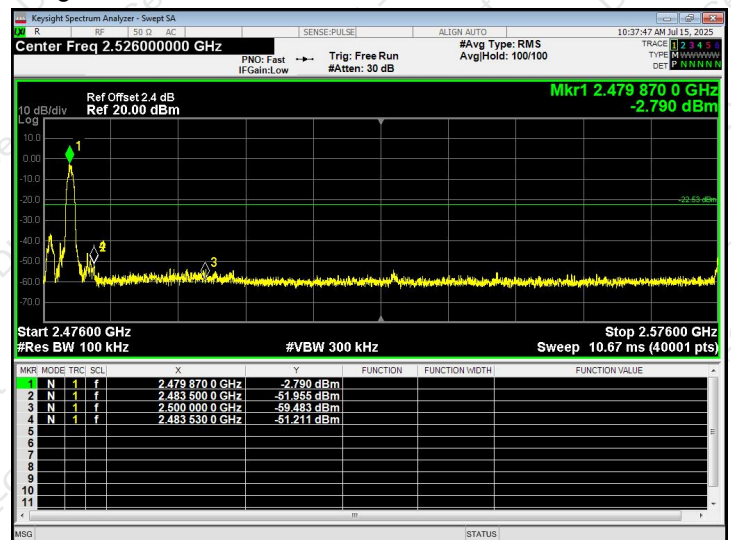


8-DPSK - 3-DH1

No-hopping Band edge-left side



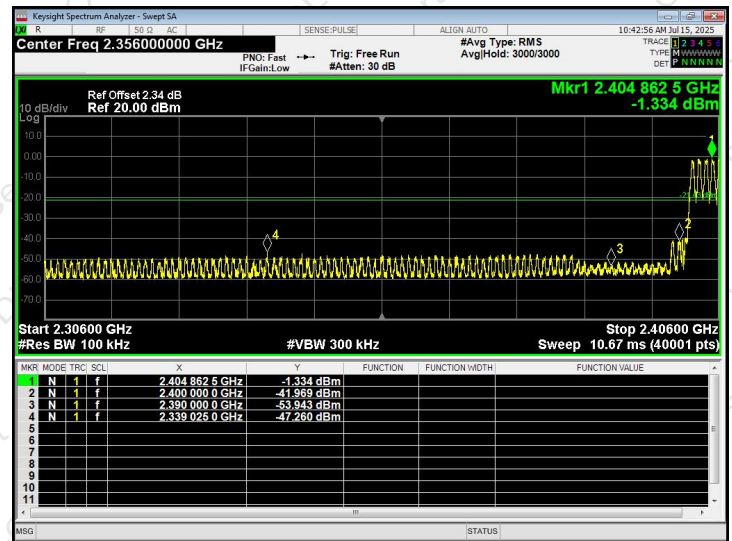
NO-hopping Band edge-left side



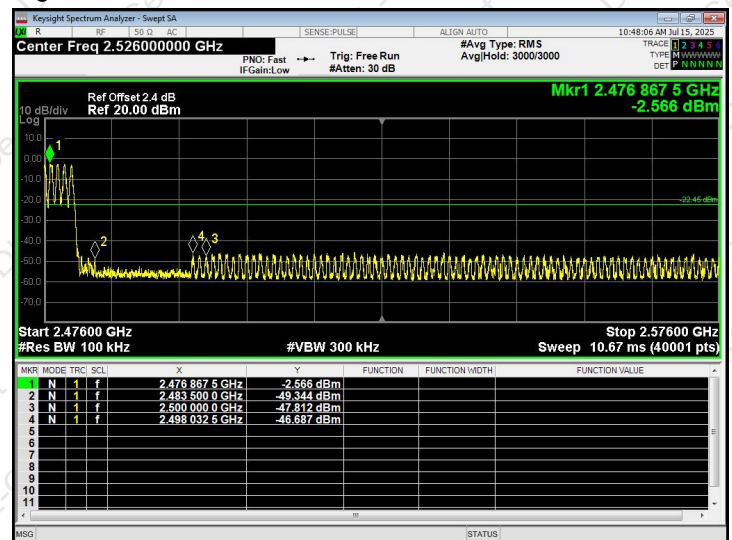


GFSK - 1-DH1

Hopping Band edge-left side

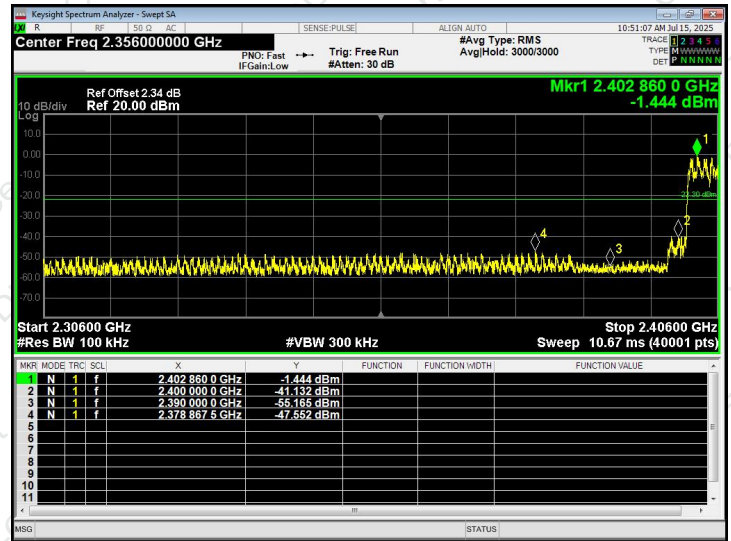


Hopping Band edge-left side

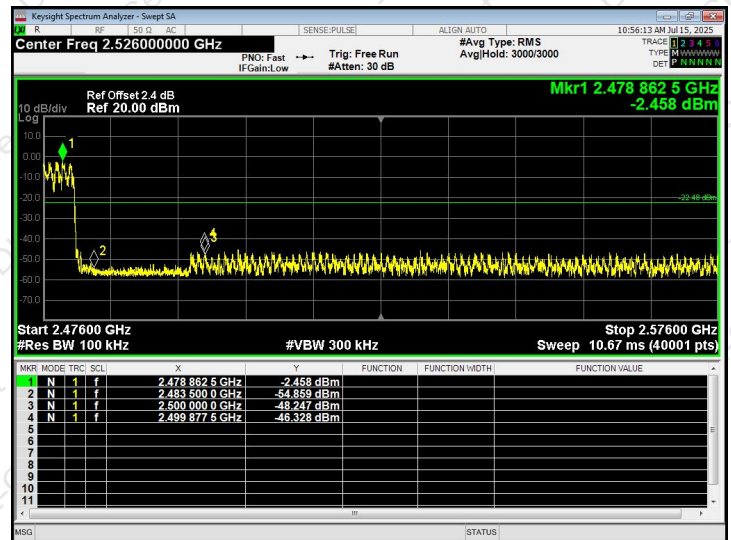




$\pi/4$ -DQPSK - 2-DH1
Hopping Band edge-left side



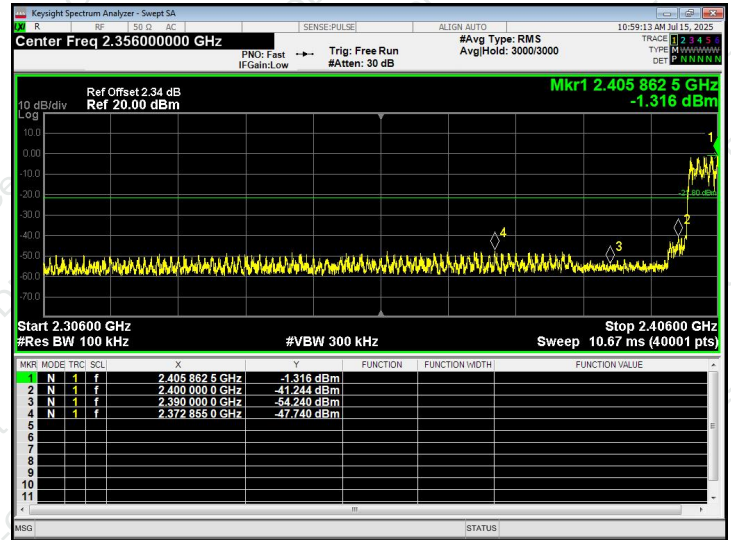
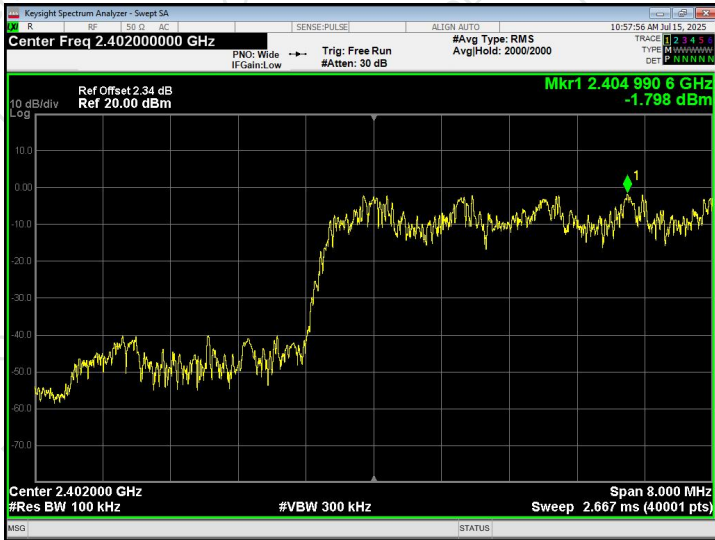
Hopping Band edge-left side



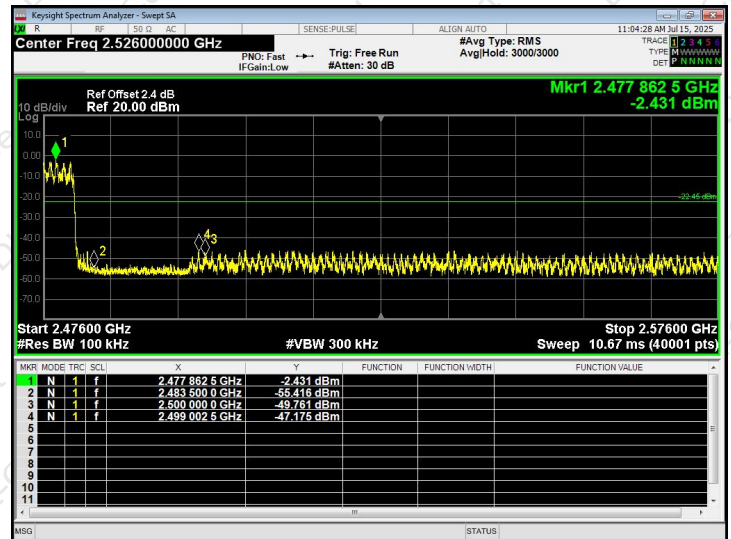


8-DPSK - 3-DH1

Hopping Band edge-left side



Hopping Band edge-left side

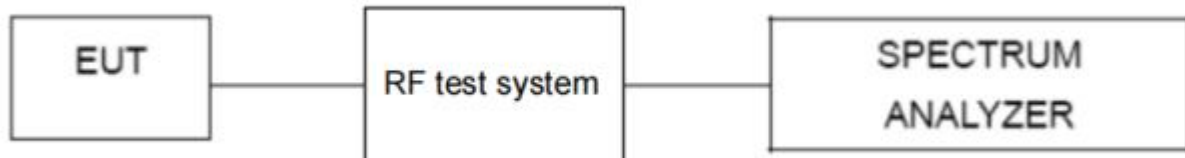




7. 20DB OCCUPIED BANDWIDTH

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.



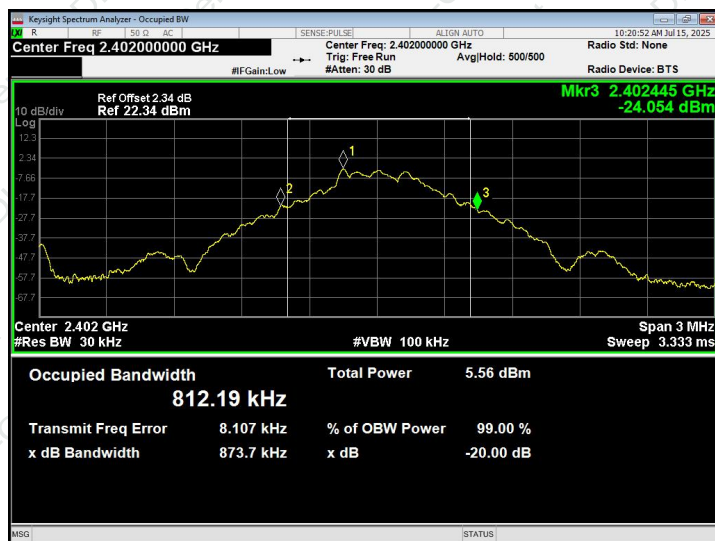
7.5 TEST RESULT

Modulation	Packet	Test Channel	20dB Occupied Bandwidth (MHz)	Result
GFSK	1-DH1	Lowest	0.874	Pass
		Middle	0.877	
		Highest	0.880	
$\pi/4$ -DQPSK	2-DH1	Lowest	1.257	Pass
		Middle	1.253	
		Highest	1.253	
8-DPSK	3-DH1	Lowest	1.220	Pass
		Middle	1.219	
		Highest	1.238	

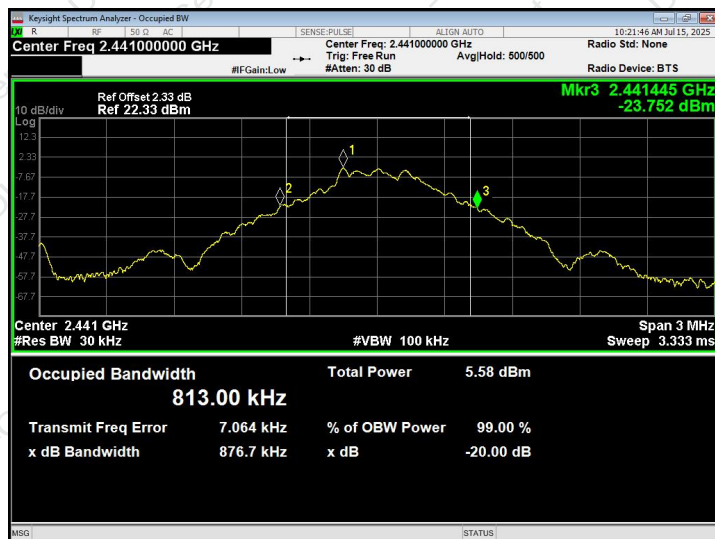


GFSK - 1-DH1 Test plots

Low Channel



Middle Channel

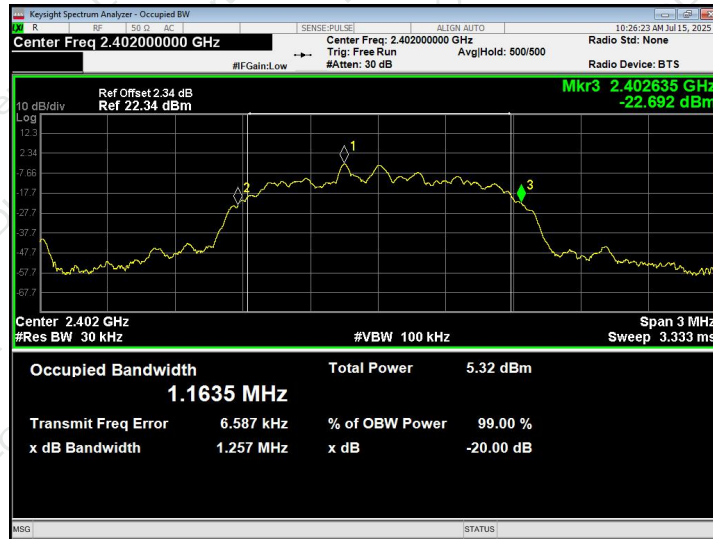


High Channel

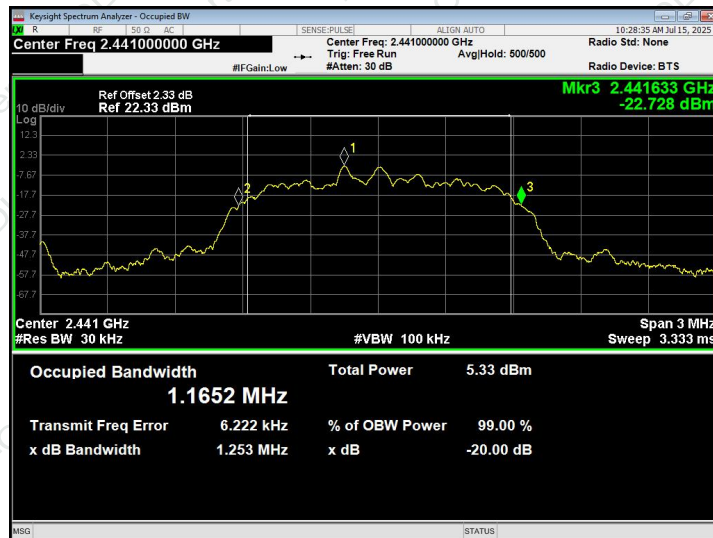


 $\pi/4$ -DQPSK - 2-DH1 Test plots

Low Channel



Middle Channel

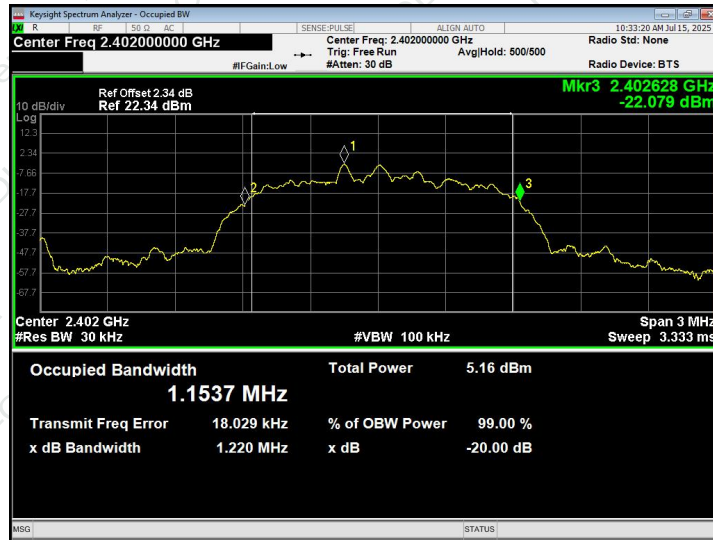


High Channel

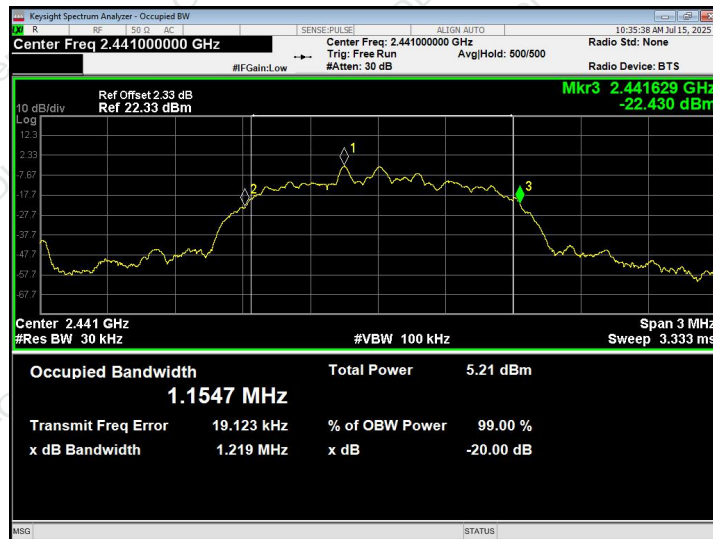




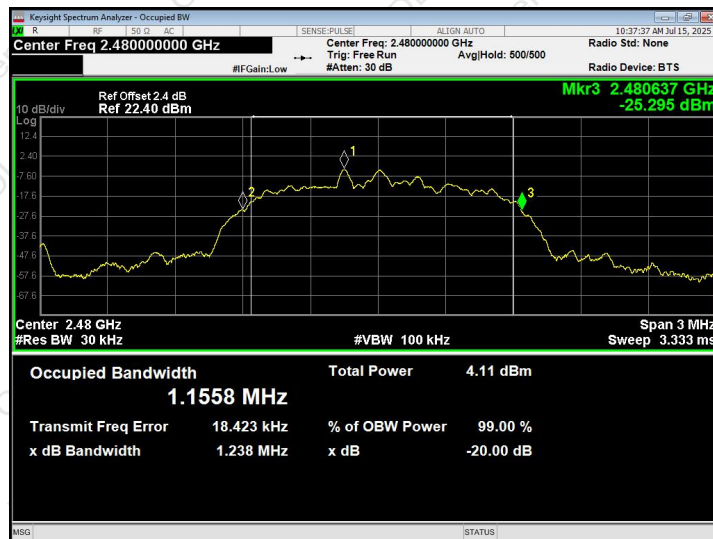
8-DPSK - 3-DH1 Test plots Low Channel



Middle Channel



High Channel

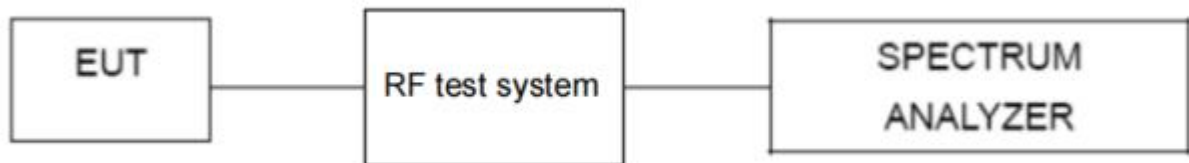




8. Maximum Peak Output Power

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.

For FHSs operating in the band 2400-2483.5 MHz, the maximum peak conducted output power shall not exceed 1.0 W if the hopset uses 75 or more hopping channels; the maximum peak conducted output power shall not exceed 0.125 W if the hopset uses less than 75 hopping channels.

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.



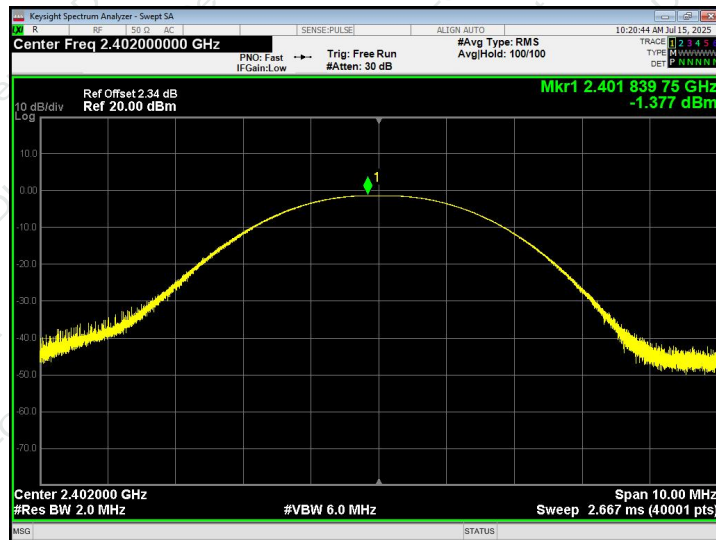
8.5 TEST RESULT

Modulation	Packet	Test Channel	Peak Output Power (dBm)	Limit (dBm)	Result
GFSK	1-DH1	Lowest	-1.377	30.00	Pass
		Middle	-1.308		
		Highest	-2.439		
$\pi/4$ -DQPSK	2-DH1	Lowest	-0.584	21.00	Pass
		Middle	-0.541		
		Highest	-1.622		
8-DPSK	3-DH1	Lowest	-0.027	21.00	Pass
		Middle	-0.254		
		Highest	-1.093		

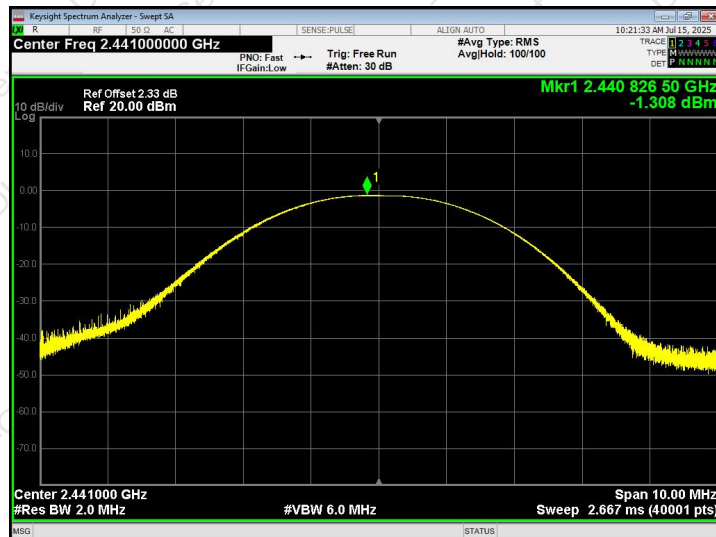


GFSK - 1-DH1 Test plots

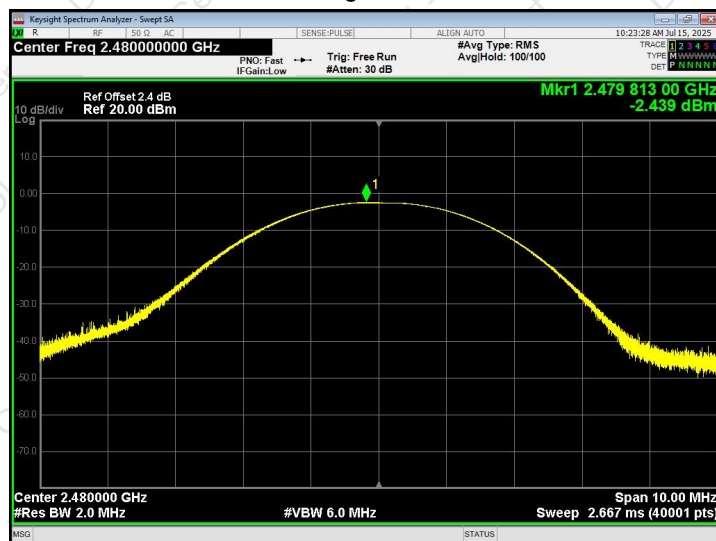
Low Channel



Middle Channel

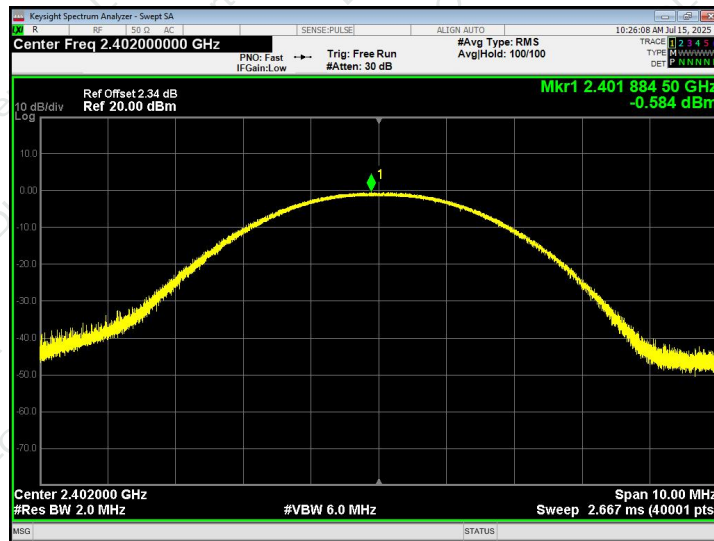


High Channel

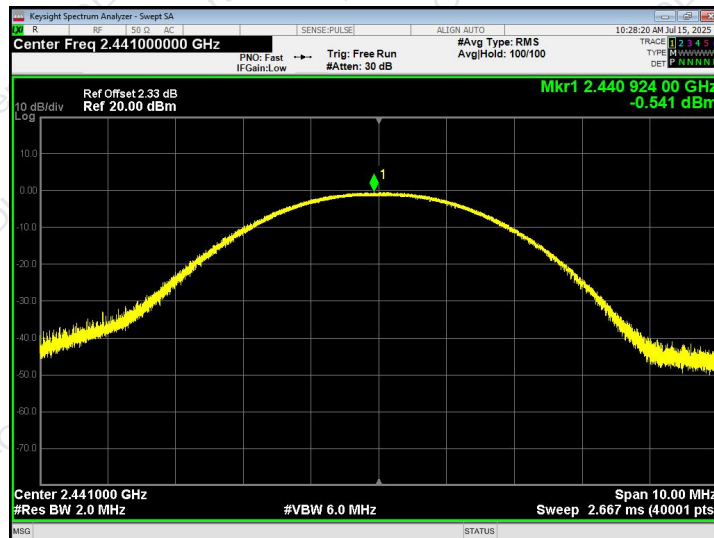


 $\pi/4$ -DQPSK - 2-DH1 Test plots

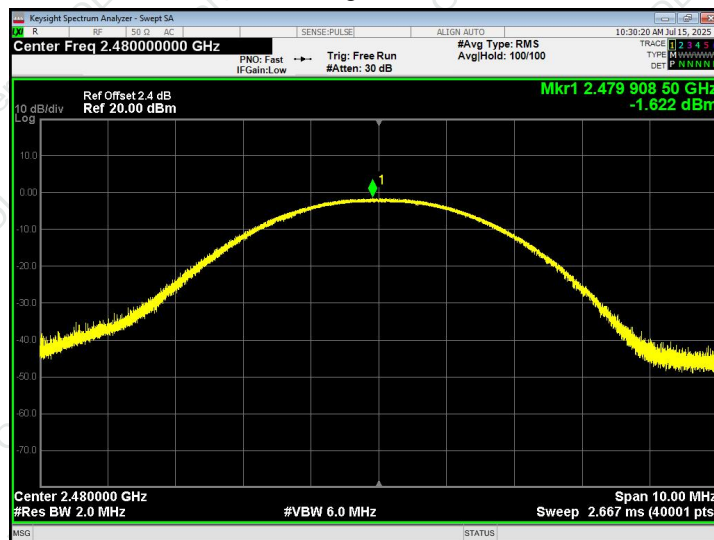
Low Channel



Middle Channel



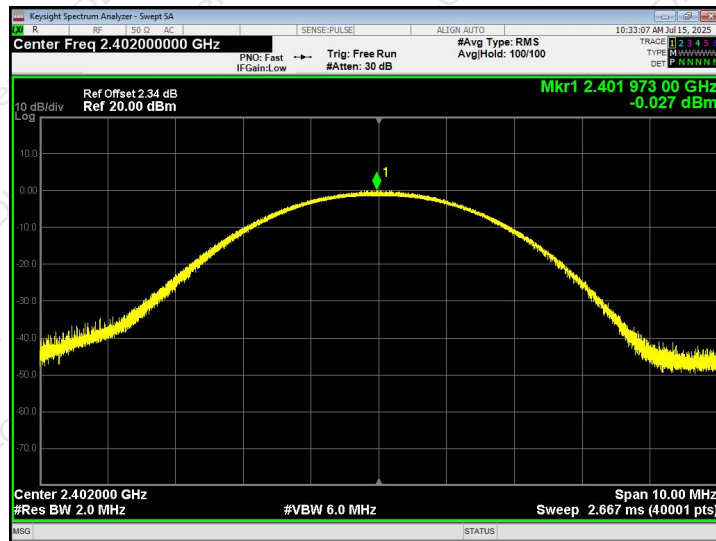
High Channel



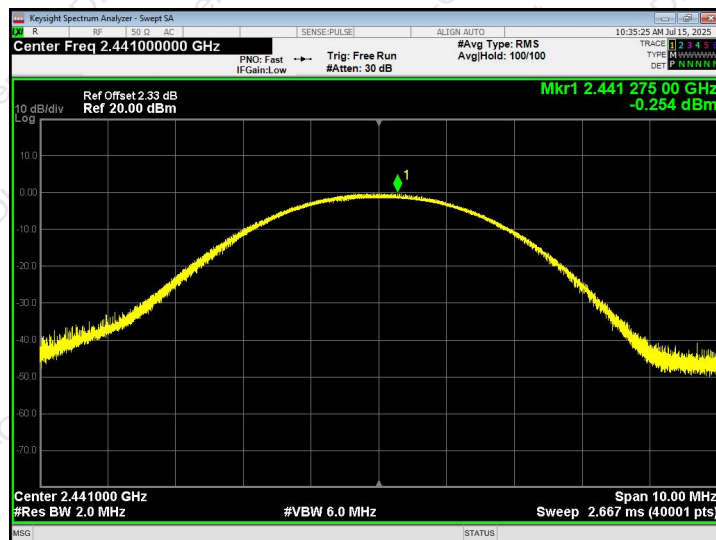


8-DPSK - 3-DH1 Test plots

Low Channel



Middle Channel



High Channel

