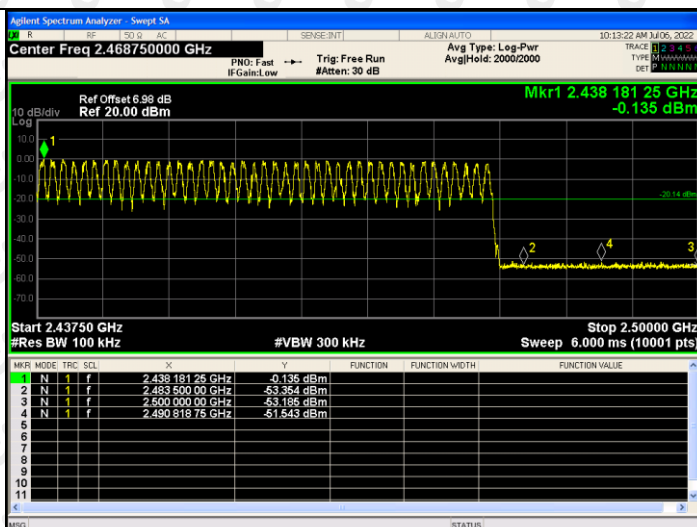
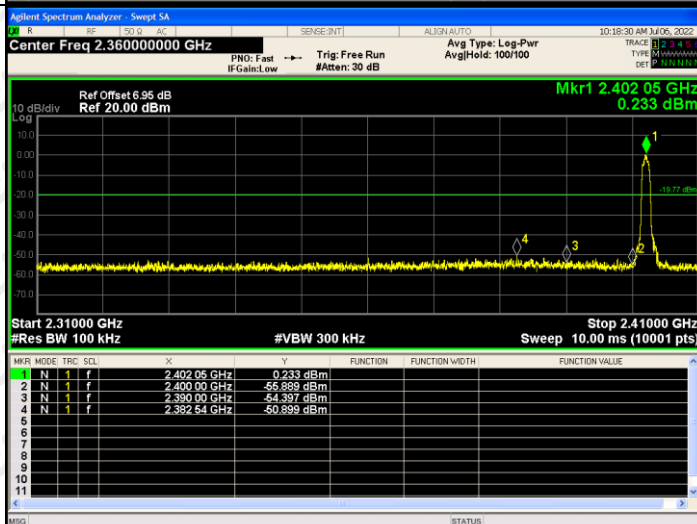


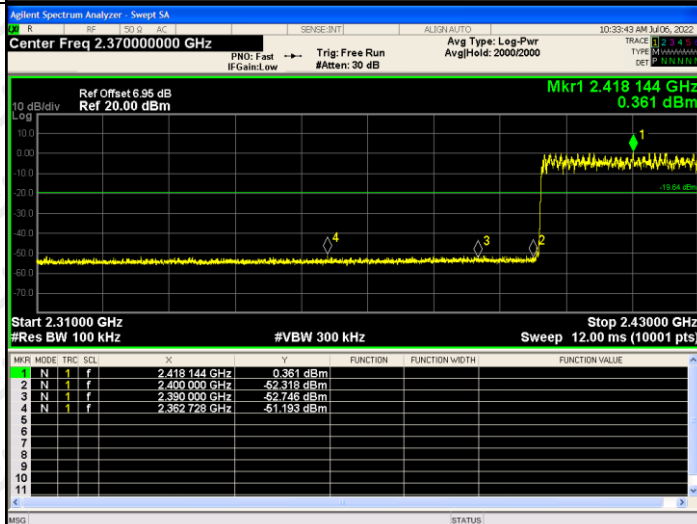
GFSK/HCH/
Hop

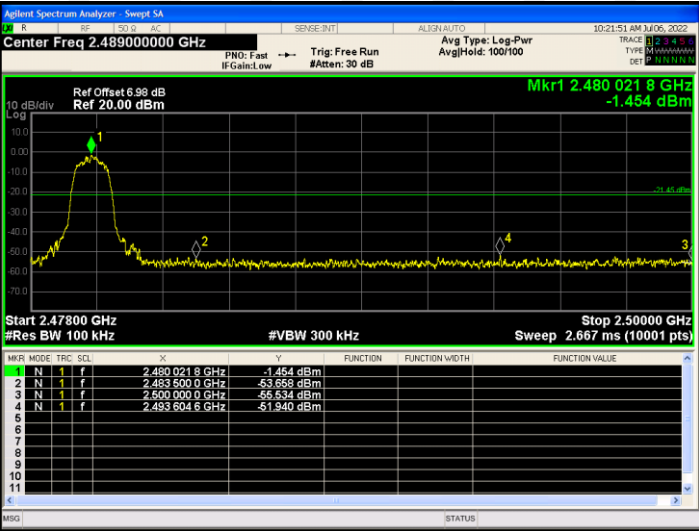
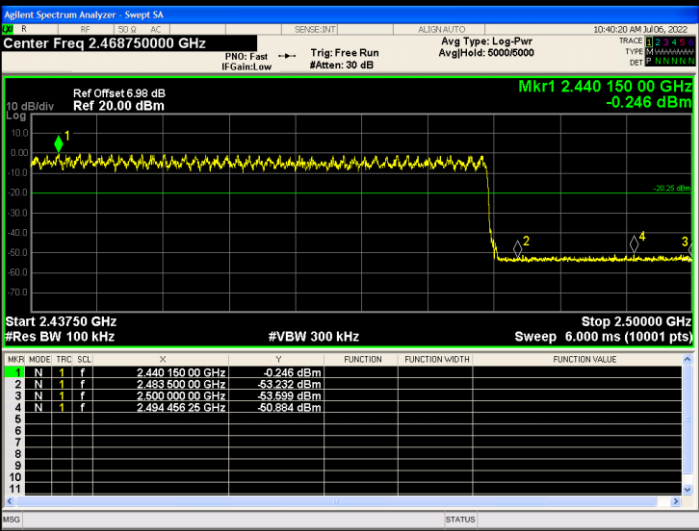
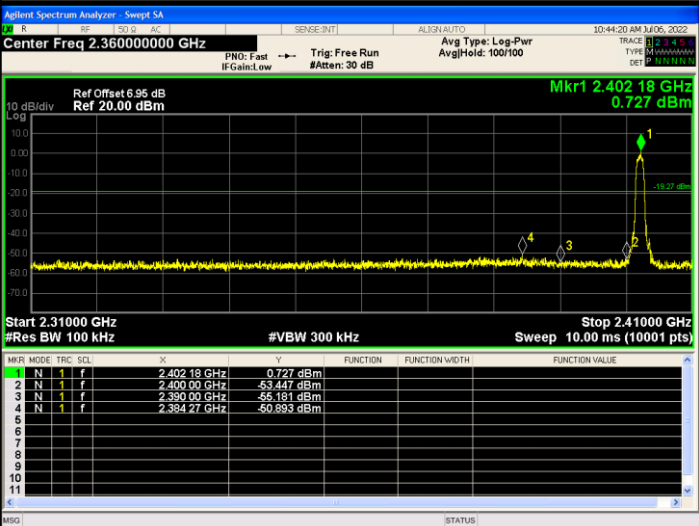


$\pi/4$ DQPSK/LCH/
No Hop

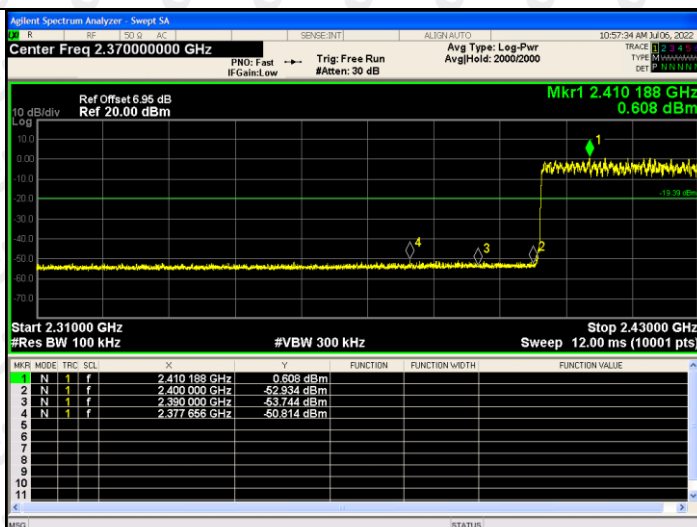


$\pi/4$ DQPSK/LCH/
Hop

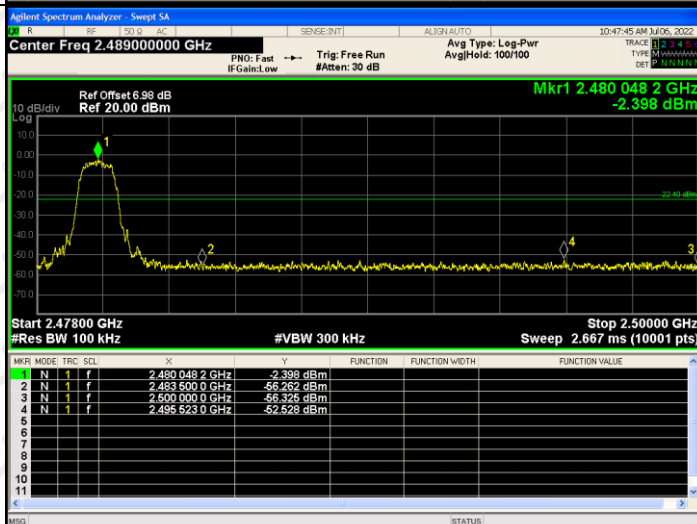


π/4DQPSK/HCH/ No Hop	
π/4DQPSK/HCH/ Hop	
8DPSK/LCH/No Hop	

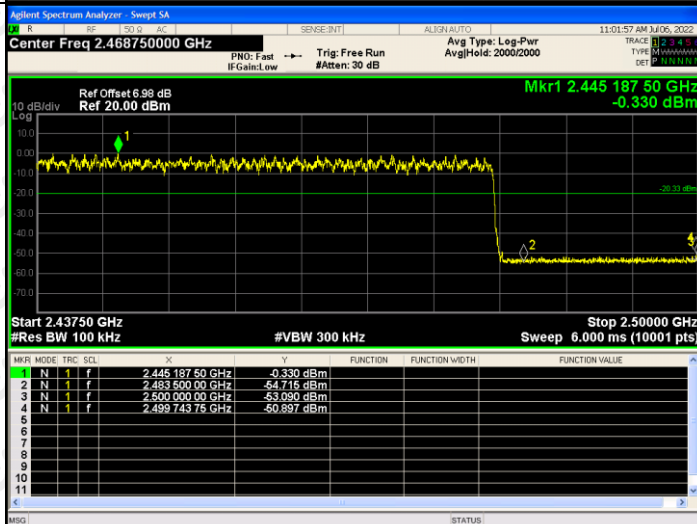
8DPSK
/LCH/Hop



8DPSK /HCH/No
Hop

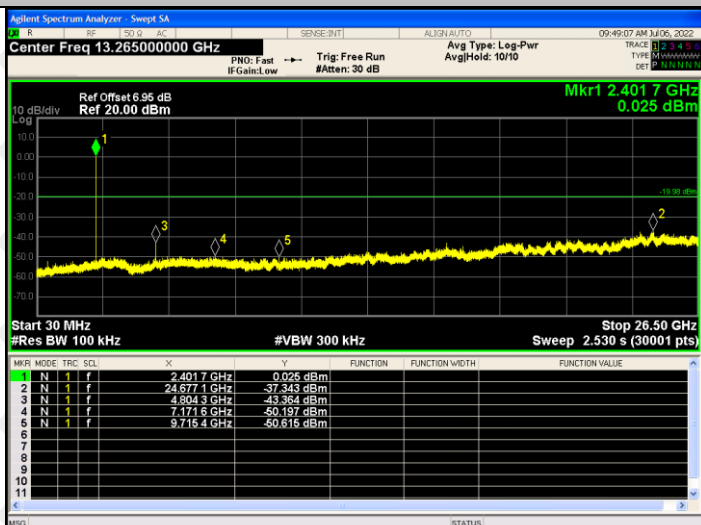


8DPSK
/HCH/Hop

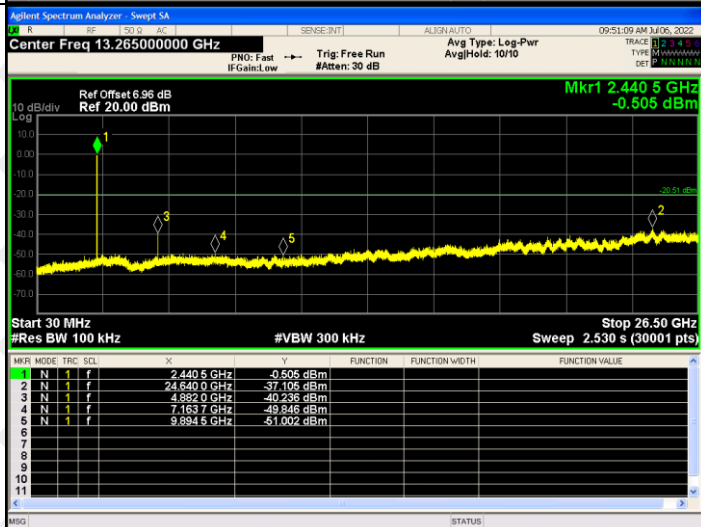


RF Conducted Spurious Emissions Graphs

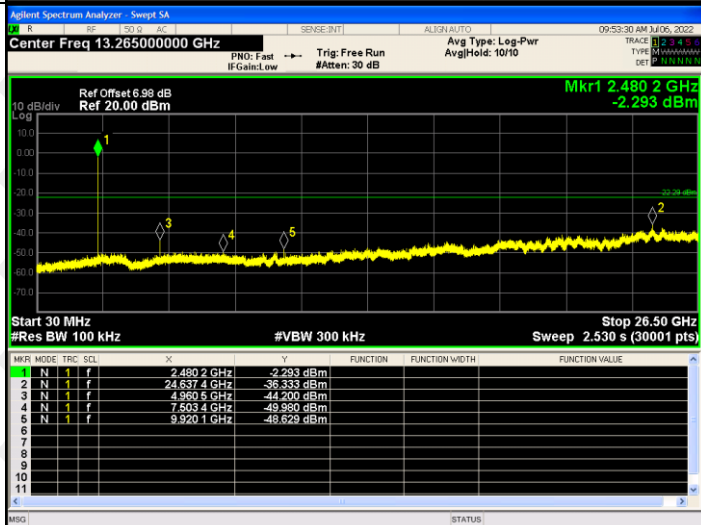
GFSK/LCH

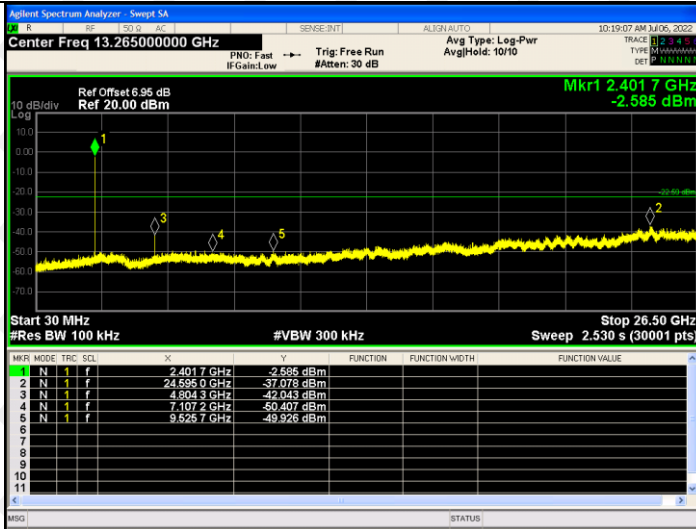
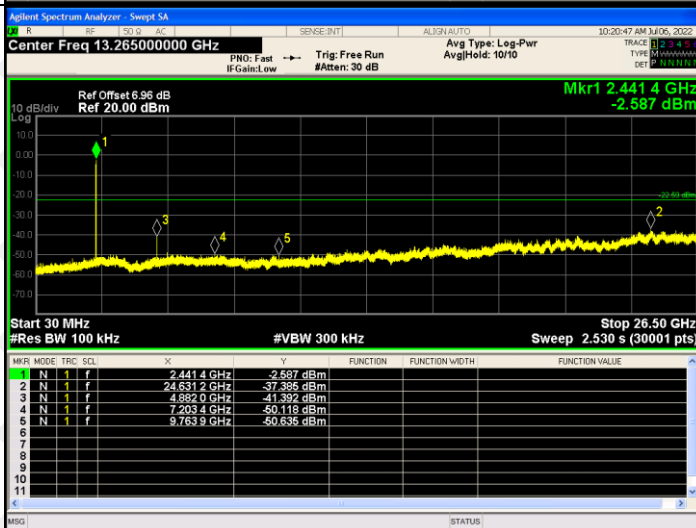
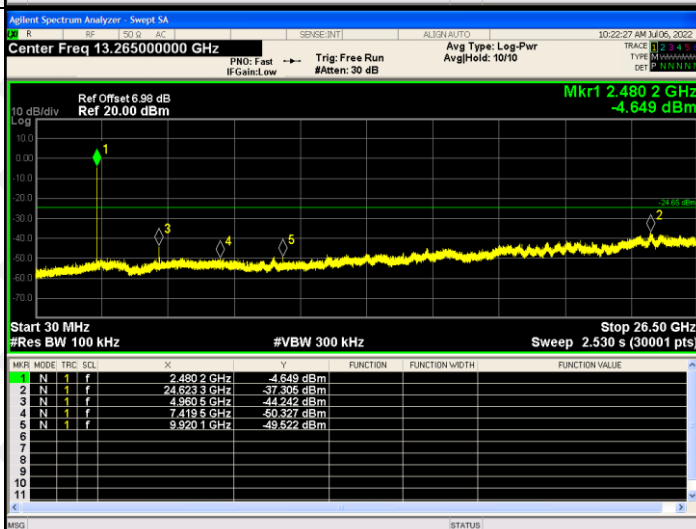


GFSK/MCH

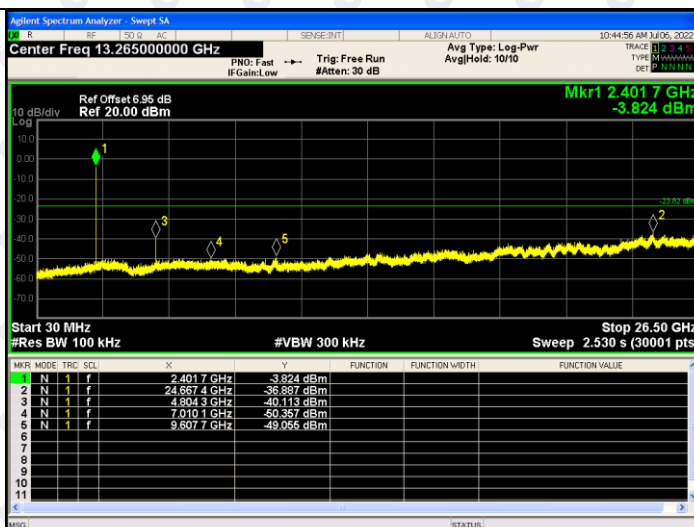


GFSK/HCH

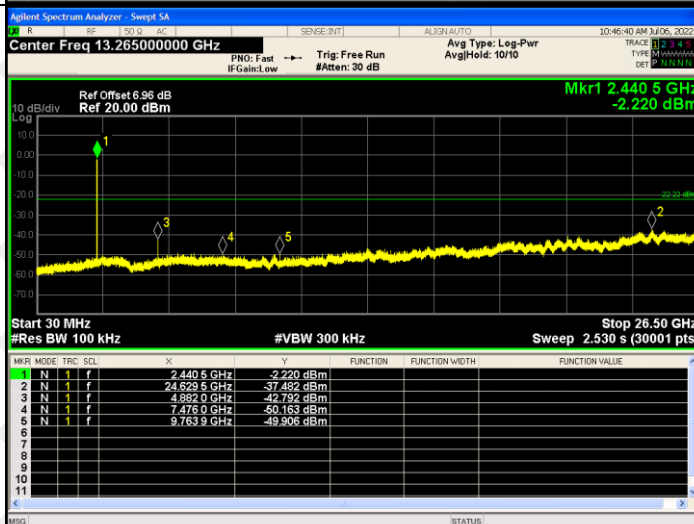


$\pi/4$ DQPSK /LCH	 <table><tr><th>MKR</th><th>MODE</th><th>TRC</th><th>SCL</th><th>X</th><th>Y</th><th>FUNCTION</th><th>FUNCTION WIDTH</th><th>FUNCTION VALUE</th></tr><tr><td>1</td><td>N</td><td>1</td><td>f</td><td>2.4017 GHz</td><td>-2.585 dBm</td><td></td><td></td><td></td></tr><tr><td>2</td><td>N</td><td>1</td><td>f</td><td>24.5950 GHz</td><td>-37.078 dBm</td><td></td><td></td><td></td></tr><tr><td>3</td><td>N</td><td>1</td><td>f</td><td>4.8043 GHz</td><td>-42.043 dBm</td><td></td><td></td><td></td></tr><tr><td>4</td><td>N</td><td>1</td><td>f</td><td>7.1072 GHz</td><td>-50.407 dBm</td><td></td><td></td><td></td></tr><tr><td>5</td><td>N</td><td>1</td><td>f</td><td>9.5267 GHz</td><td>-49.926 dBm</td><td></td><td></td><td></td></tr></table>	MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE	1	N	1	f	2.4017 GHz	-2.585 dBm				2	N	1	f	24.5950 GHz	-37.078 dBm				3	N	1	f	4.8043 GHz	-42.043 dBm				4	N	1	f	7.1072 GHz	-50.407 dBm				5	N	1	f	9.5267 GHz	-49.926 dBm			
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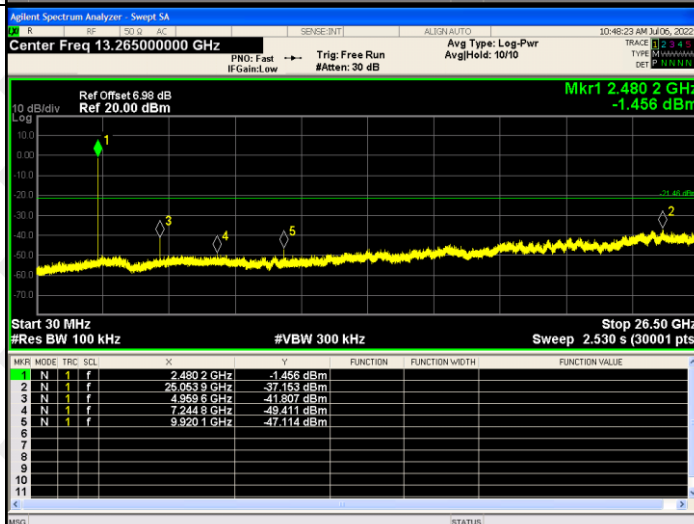
8DPSK /LCH



8DPSK /MCH

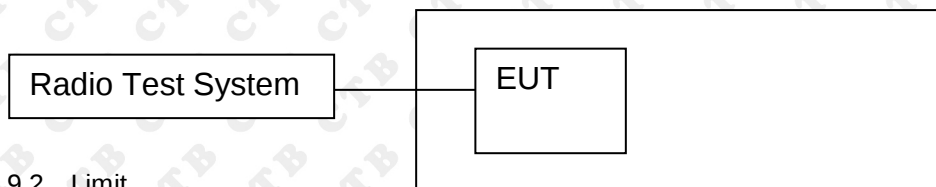


8DPSK /HCH



9. COUDUCTED PEAK OUTPUT POWER

9.1 Block Diagram Of Test Setup



9.2 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.

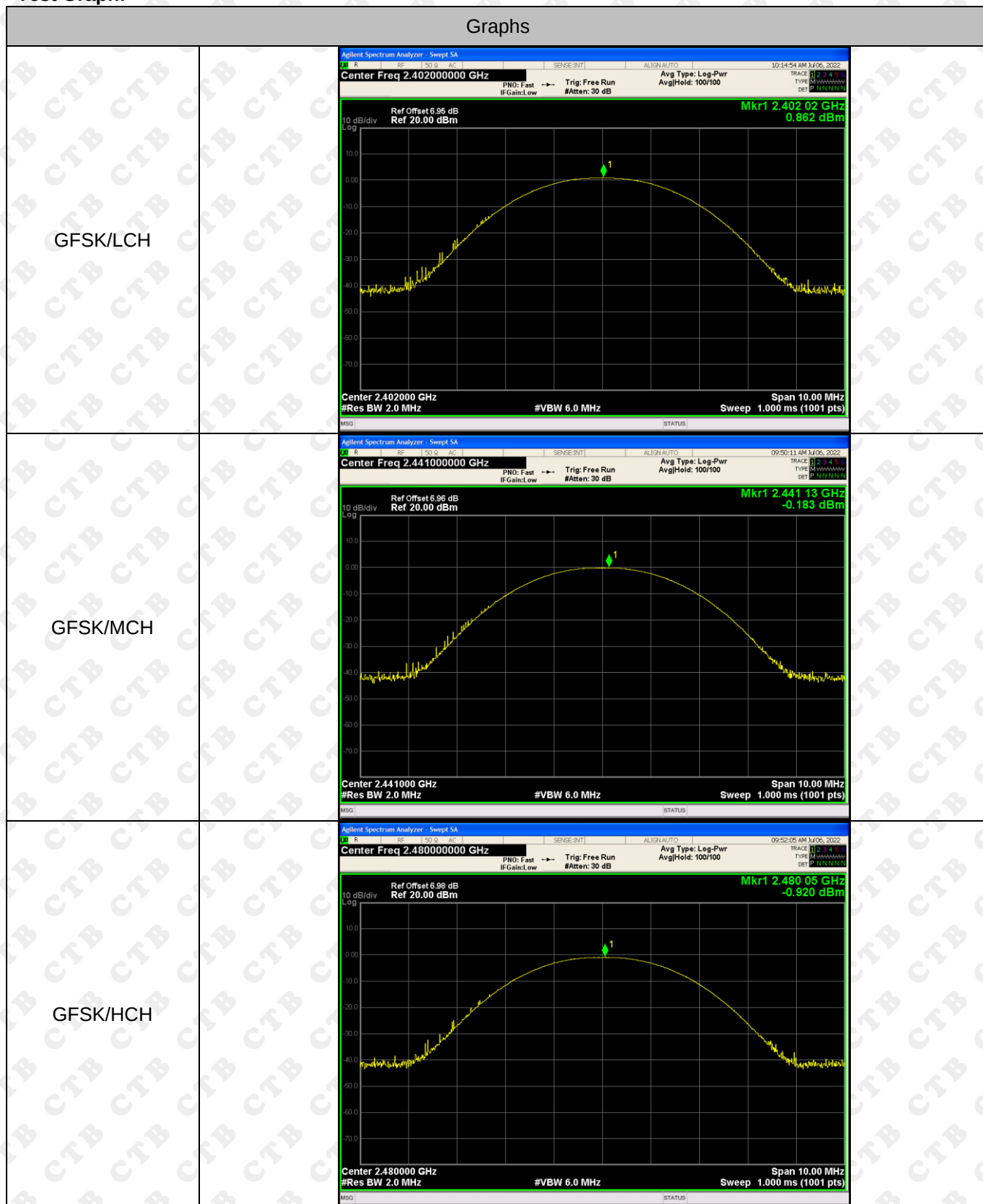
9.3 Test procedure

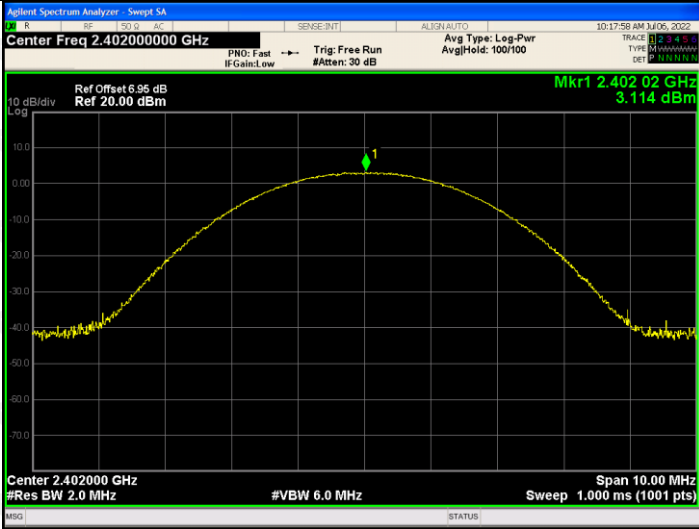
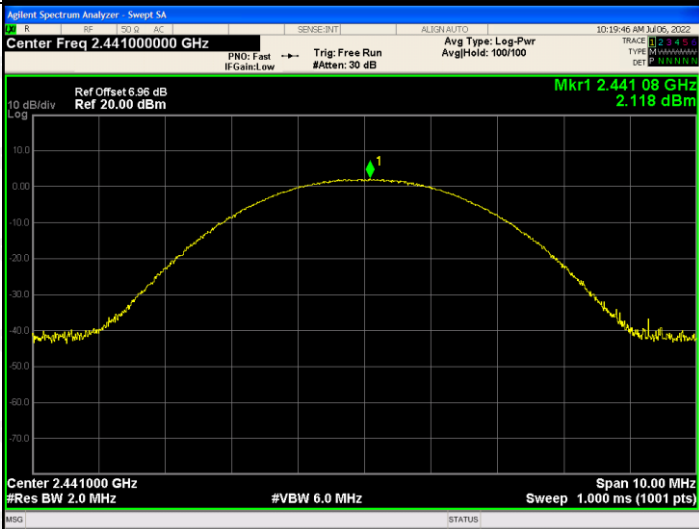
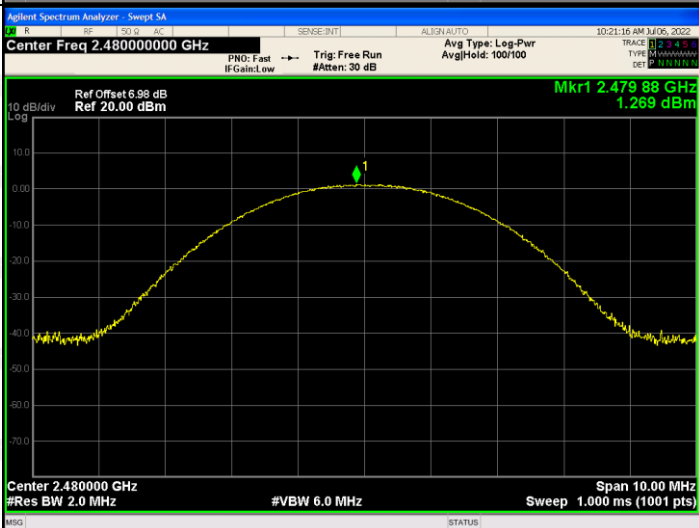
1. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum.
2. Set the spectrum analyzer: RBW = 2MHz. VBW = 6MHz. Sweep = auto; Detector Function = Peak.
3. Keep the EUT in transmitting at lowest, middle and highest channel individually. Record the max value.

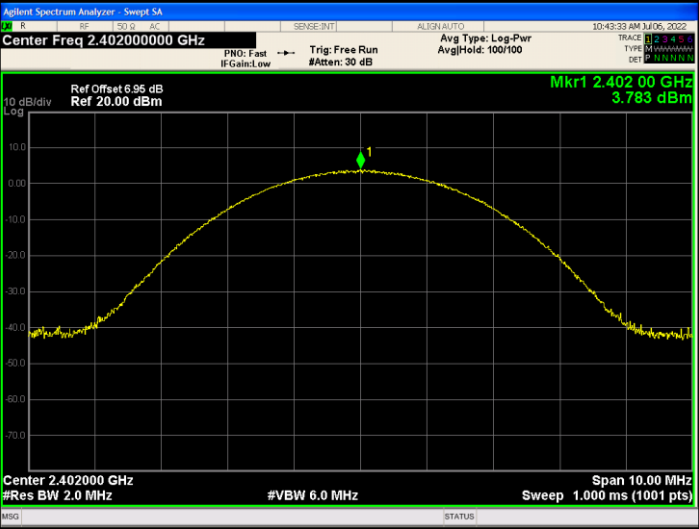
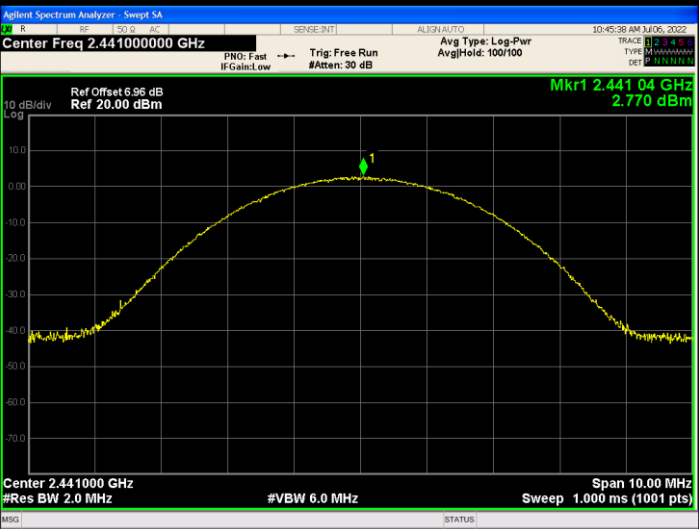
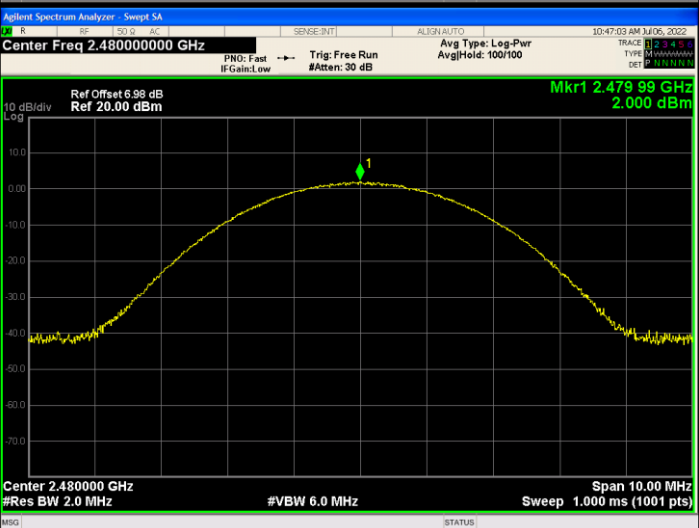
9.4 Test Result

Mode	Channel.	Maximum Peak Output Power [dBm]	Verdict
EDR mode (GFSK)	LCH	0.862	PASS
	MCH	-0.183	PASS
	HCH	-0.920	PASS
EDR mode ($\pi/4$ DQPSK)	LCH	3.114	PASS
	MCH	2.118	PASS
	HCH	1.269	PASS
EDR mode (8DPSK)	LCH	3.783	PASS
	MCH	2.770	PASS
	HCH	2.000	PASS

Test Graph:

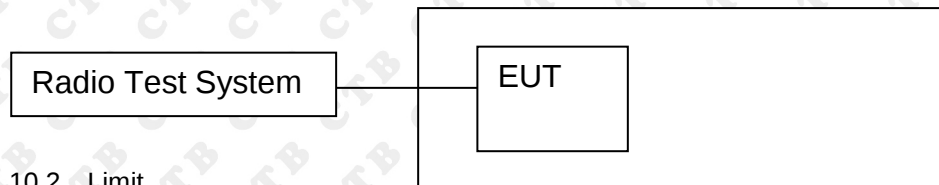


$\pi/4$ DQPSK/LCH	
$\pi/4$ DQPSK/MCH	
$\pi/4$ DQPSK/HCH	

8DPSK/LCH	 Agilent Spectrum Analyzer - Sweep SA Center Freq 2.40200000 GHz Ref Offset 6.95 dB Ref 20.00 dBm Mkr1 2.402 00 GHz 3.783 dBm Center 2.402000 GHz #Res BW 2.0 MHz #VBW 6.0 MHz Span 10.00 MHz Sweep 1.000 ms (1001 pts)
8DPSK /MCH	 Agilent Spectrum Analyzer - Sweep SA Center Freq 2.44100000 GHz Ref Offset 6.95 dB Ref 20.00 dBm Mkr1 2.441 04 GHz 2.770 dBm Center 2.441000 GHz #Res BW 2.0 MHz #VBW 6.0 MHz Span 10.00 MHz Sweep 1.000 ms (1001 pts)
8DPSK /HCH	 Agilent Spectrum Analyzer - Sweep SA Center Freq 2.48000000 GHz Ref Offset 6.95 dB Ref 20.00 dBm Mkr1 2.479 99 GHz 2.000 dBm Center 2.480000 GHz #Res BW 2.0 MHz #VBW 6.0 MHz Span 10.00 MHz Sweep 1.000 ms (1001 pts)

10. 20DB OCCUPIED BANDWIDTH

10.1 Block Diagram Of Test Setup



10.2 Limit

Alternatively, frequency hopping systems operating in the 2400-2483.5MHz band may have hopping channel carrier frequencies that are separated by 25kHz or two-thirds of the 20dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 125mw.

10.3 Test procedure

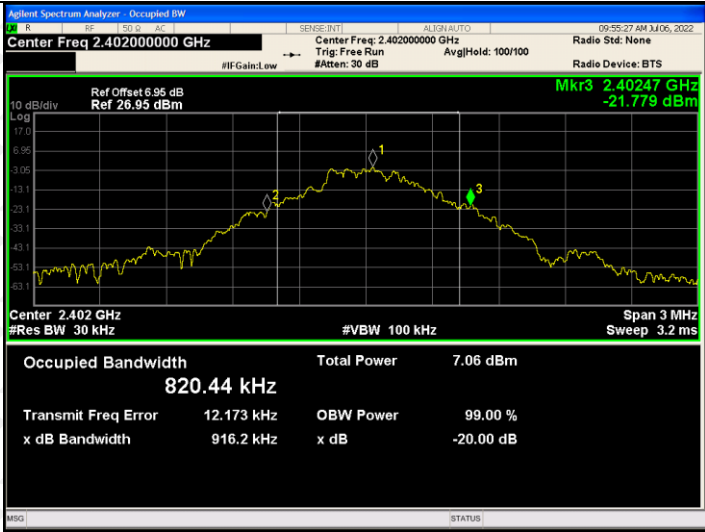
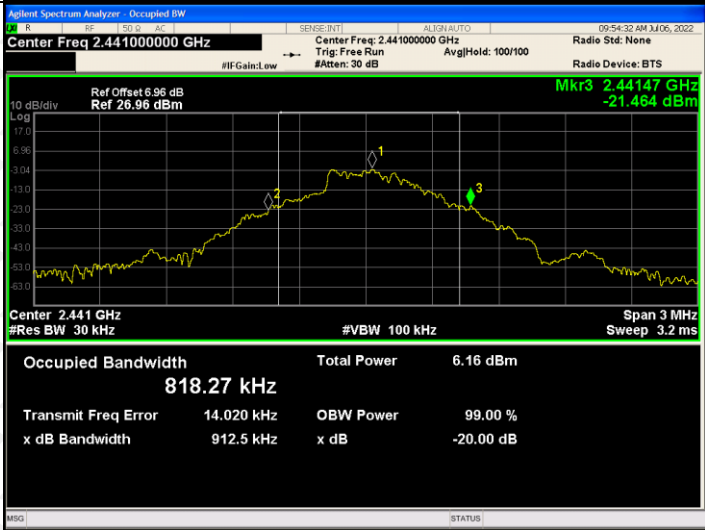
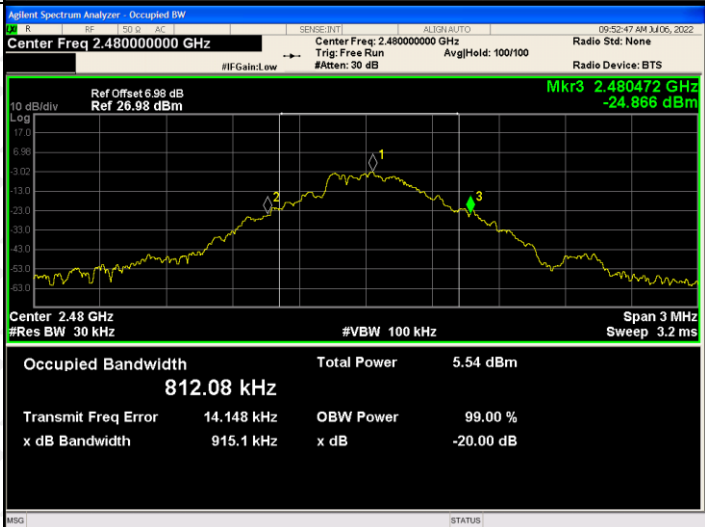
1. Rem1. Set RBW = 30 kHz.
2. Set the video bandwidth (VBW) $\geq 3 \times$ RBW.
3. Detector = Peak.
4. Trace mode = max hold.
5. Sweep = auto couple.
6. Allow the trace to stabilize.
7. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

10.4 Test Result

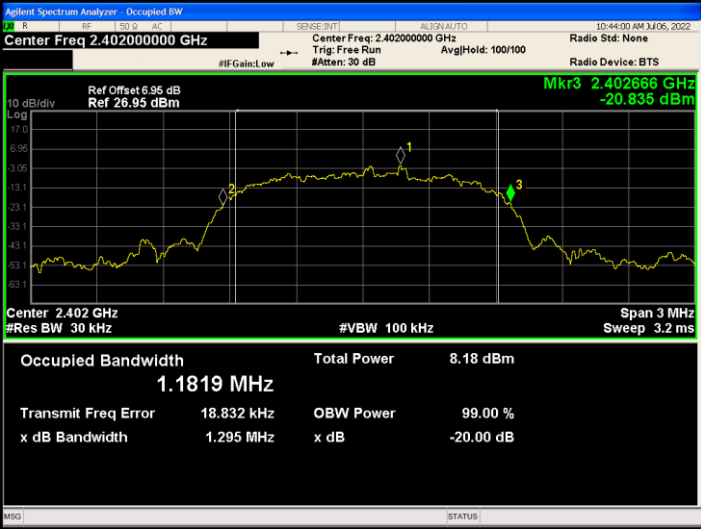
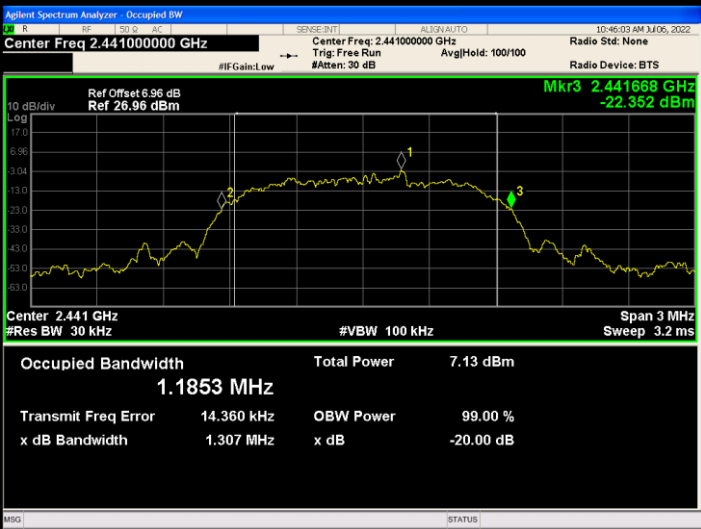
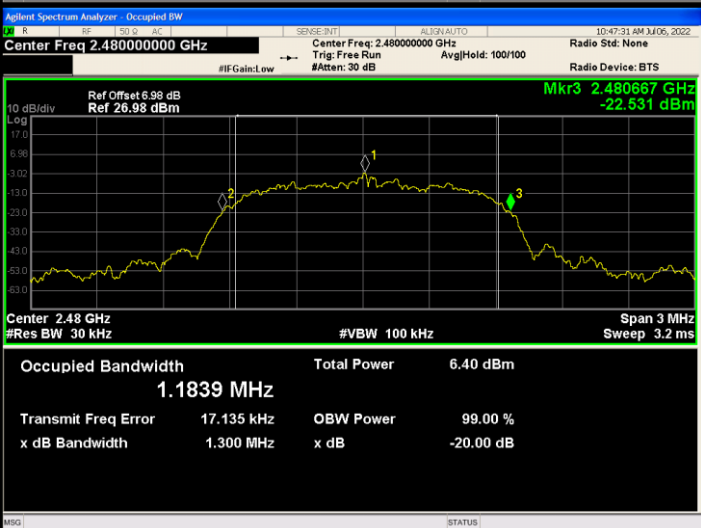
Test Mode	Frequency	20dB Bandwidth (MHz)	Result
GFSK	Low channel	0.916	PASS
	Mid channel	0.912	PASS
	High channel	0.915	PASS
$\pi/4$ DQPSK	Low channel	1.323	PASS
	Mid channel	1.313	PASS
	High channel	1.314	PASS
8DPSK	Low channel	1.295	PASS
	Mid channel	1.307	PASS
	High channel	1.300	PASS

Note: All modes of operation were Pre-scan and the worst-case emissions are reported.

Test Graph:

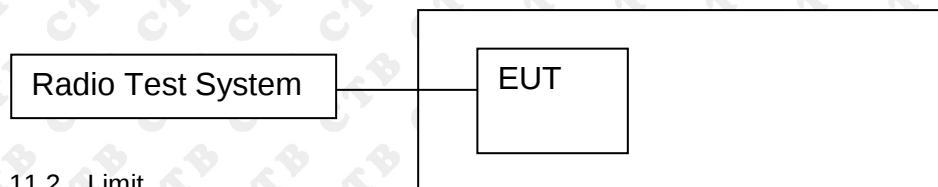
GFSK Low channel	
GFSK Mid channel	
GFSK High channel	

$\pi/4$-DQPSK Low channel	
$\pi/4$-DQPSK Mid channel	
$\pi/4$-DQPSK High channel	

8DPSK Low channel	
8DPSK Mid channel	
8DPSK High channel	

11. CARRIER FREQUENCIES SEPARATION

11.1 Block Diagram Of Test Setup



11.2 Limit

Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater. Alternatively, frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 0.125W.

11.3 Test procedure

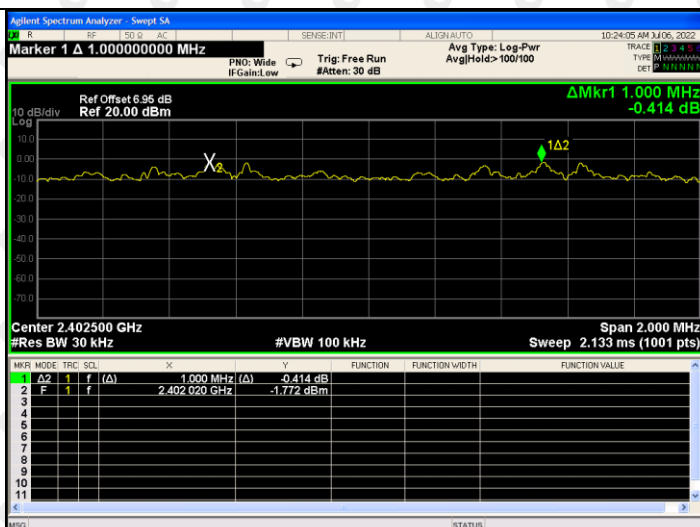
1. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum.
2. Set the spectrum analyzer: RBW = 30kHz. VBW = 100kHz , Span = 2MHz. Sweep = auto; Detector Function = Peak. Trace = Max hold.
3. Allow the trace to stabilize. Use the marker-delta function to determine the separation between the peaks of the adjacent channels. The limit is specified in one of the subparagraphs of this Section Submit this plot.

11.4 Test Result

Mode	Channel.	Carrier Frequency Separation [MHz]	Verdict
GFSK	LCH	1.002	PASS
GFSK	MCH	1.000	PASS
GFSK	HCH	1.000	PASS
$\pi/4$ DQPSK	LCH	1.000	PASS
$\pi/4$ DQPSK	MCH	1.000	PASS
$\pi/4$ DQPSK	HCH	1.000	PASS
8DPSK	LCH	1.000	PASS
8DPSK	MCH	1.000	PASS
8DPSK	HCH	1.000	PASS

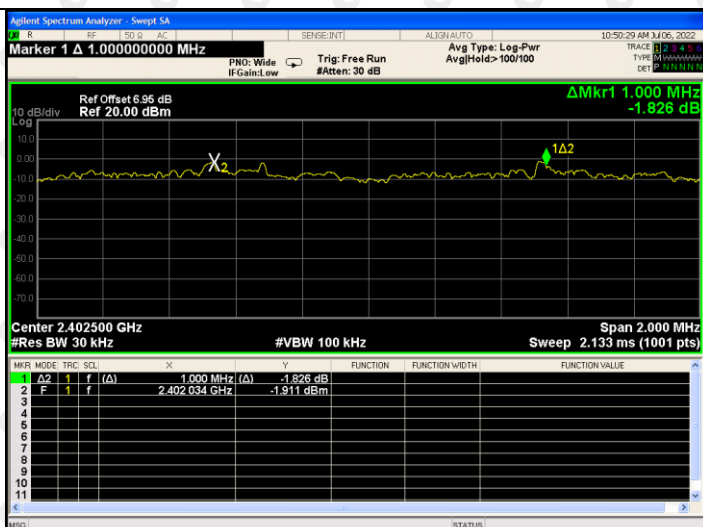
Test Graph



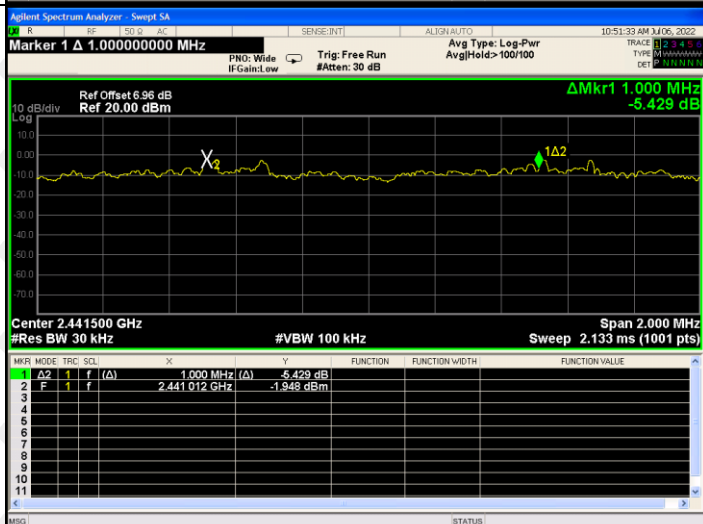
$\pi/4$ DQPSK/LCH

 $\pi/4$ DQPSK/MCH

 $\pi/4$ DQPSK/HCH


8DPSK/LCH



8DPSK /MCH



8DPSK /HCH

