Appendix A for test data:

A1.Conducted Peak Output Power

Test Result

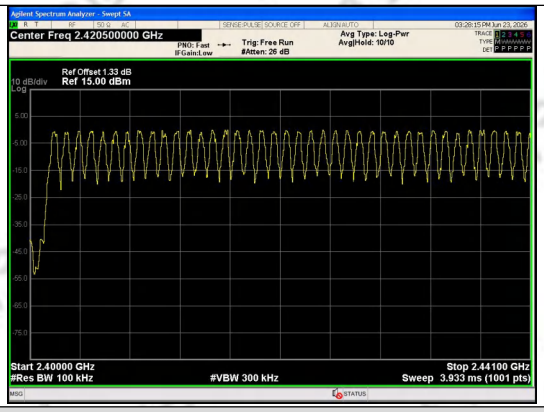
Modulation	Packet Type	Channel	Peak Output Power (dBm)	Peak Output Power Limit (dBm)	EIRP (dBm)	EIRP Limit (dBm)	Result
GFSK	DH5	0	0.07	≤21	2.57	≤36.02	PASS
		39	0.05	≤21	2.55	≤36.02	PASS
		78	-0.42	≤21	2.08	≤36.02	PASS
π/4DQPSK	2-DH5	0	0.89	≤21	3.39	≤36.02	PASS
		39	0.98	≤21	3.48	≤36.02	PASS
		78	0.45	≤21	2.95	≤36.02	PASS
8DPSK	3-DH5	0	1.27	≤21	3.77	≤36.02	PASS
		39	1.36	≤21	3.86	≤36.02	PASS
		78	0.87	≤21	3.37	≤36.02	PASS

A2.Number of Hopping Frequencies

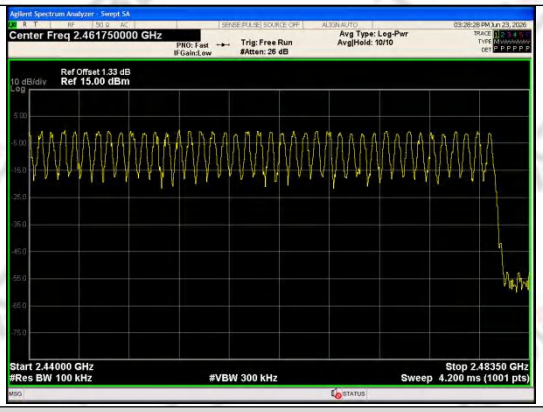
Test Result

Modulation	Packet	Number of Hopping Channel	Limit	Result
GFSK	DH5	79	15	PASS
π/4DQPSK	2-DH5	79	15	PASS
8DPSK	3-DH5	79	15	PASS

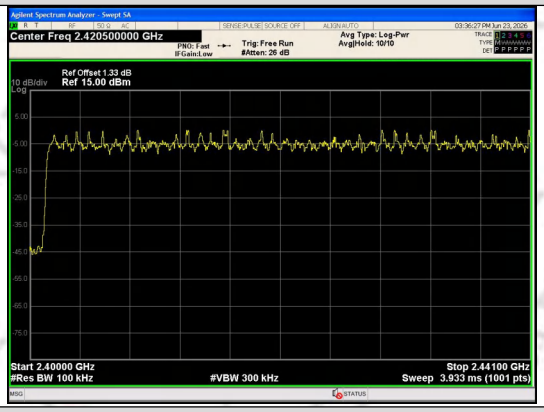
Test Graphs



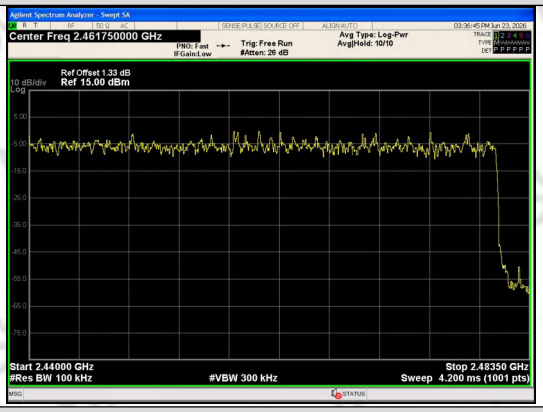
Low End Spectrum Channel Hopping Plot
GFSK



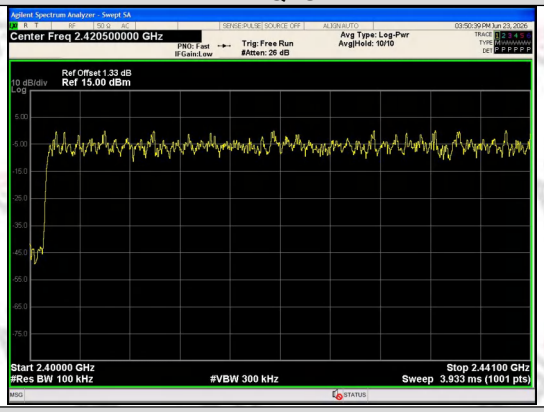
High End Spectrum Channel Hopping Plot
GFSK



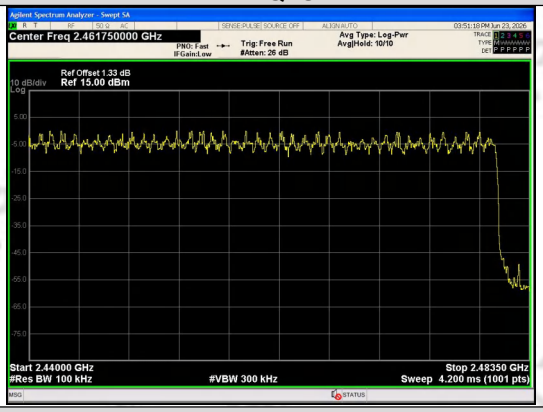
Low End Spectrum Channel Hopping Plot
π/4DQPSK



High End Spectrum Channel Hopping Plot
π/4DQPSK



Low End Spectrum Channel Hopping Plot
8DPSK



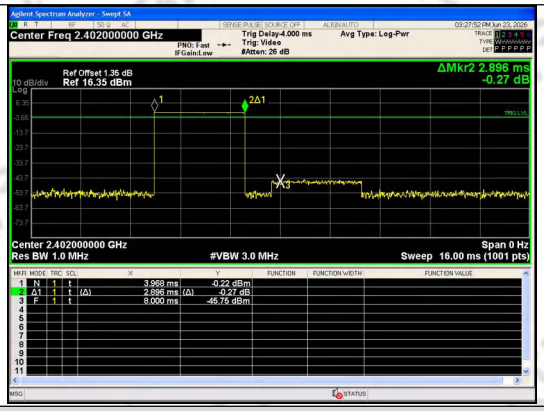
High End Spectrum Channel Hopping Plot
8DPSK

A3.Dwell Time

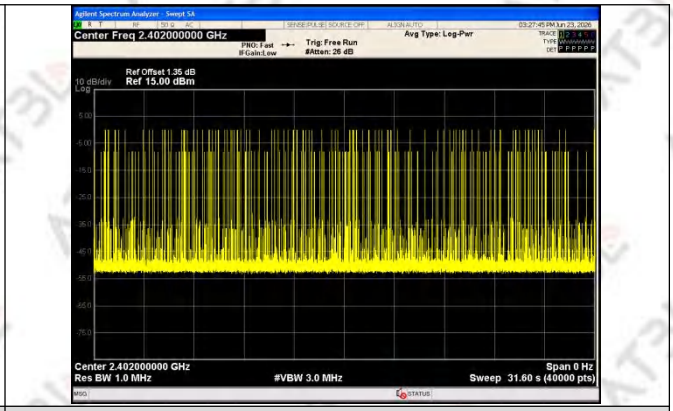
Test Result

Modulation	Packet	Channel	Pulse Width (ms)	Number of Pulses in 31.6 seconds	Dwell Time (ms)	Limit (ms)	Result
GFSK	DH5	Hopping	2.896	101	292.5	< 400	PASS
π/4DQPSK	2-DH5		2.896	120	347.52		PASS
8DPSK	3-DH5		2.896	102	295.39		PASS
Note: Dwell time=Pulse time(ms)*Number of Pulses in 31.6 seconds							

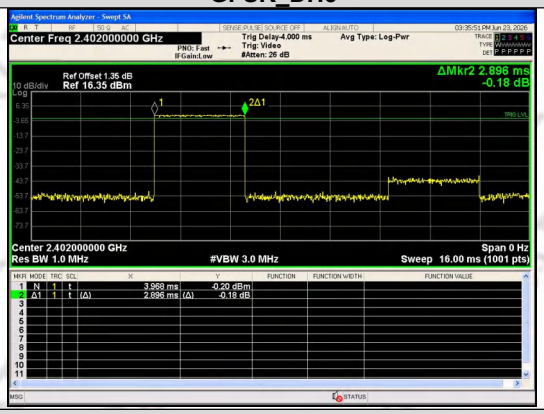
Test Graphs



Pulse Width
GFSK_DH5

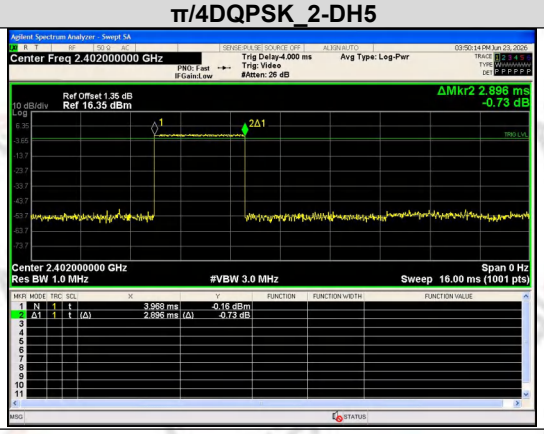


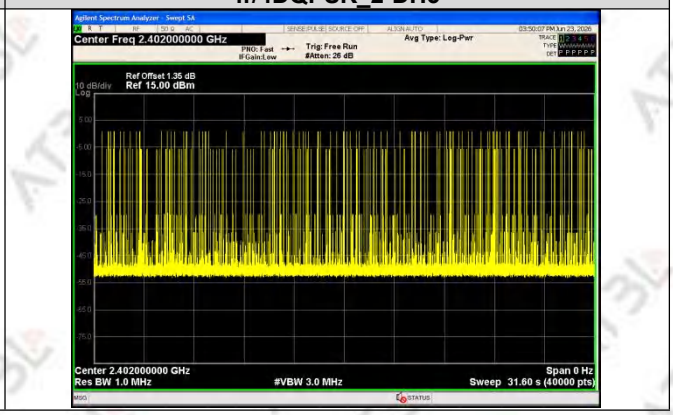
Number of Pulses in 31.6 seconds
GFSK_DH5



Pulse Width
π/4DQPSK_2-DH5

Number of Pulses in 31.6 seconds
π/4DQPSK_2-DH5





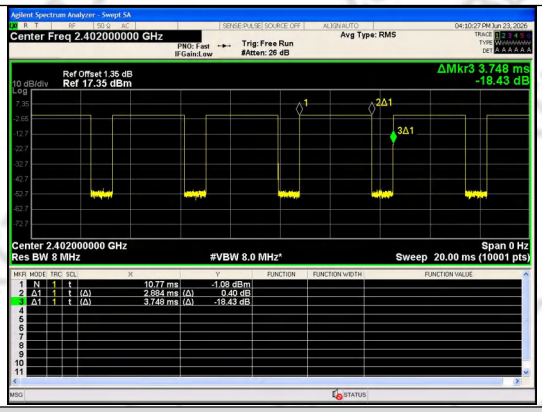
Pulse Width 8DPSK_3-DH5	Number of Pulses in 31.6 seconds 8DPSK_3-DH5

A4.Duty Cycle

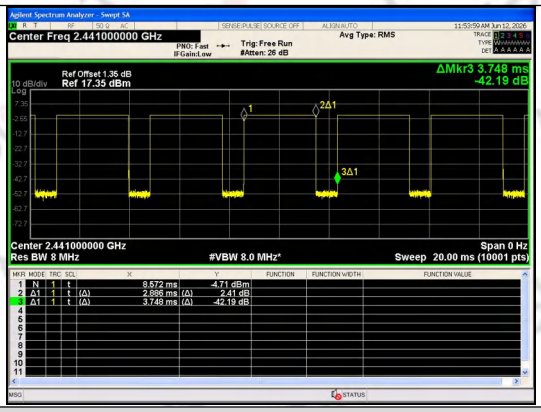
Test Result

Modulation	Packets	Channel	On Time (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle (linear)	Duty Cycle Factor (dB)
GFSK	DH5	0	2.884	3.748	76.95	0.7695	1.1379
		39	2.886	3.748	77.00	0.7700	1.1351
		78	2.886	3.748	77.00	0.7700	1.1351
π/4DQPSK	2-DH5	0	2.892	3.748	77.16	0.7716	1.1261
		39	2.892	3.748	77.16	0.7716	1.1289
		78	2.892	3.748	77.16	0.7716	1.1289
8DPSK	3-DH5	0	2.894	3.748	77.21	0.7721	1.1233
		39	2.894	3.748	77.21	0.7721	1.1233
		78	2.892	3.748	77.16	0.7716	1.1261

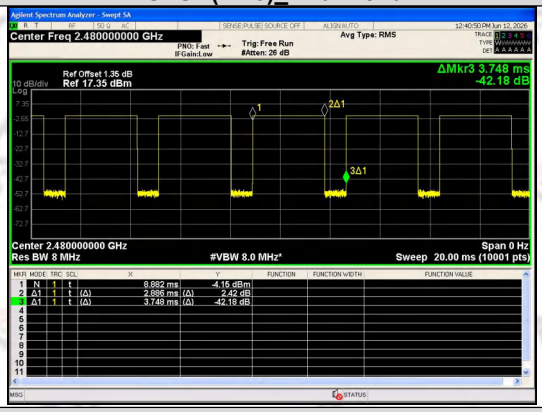
Test Graphs



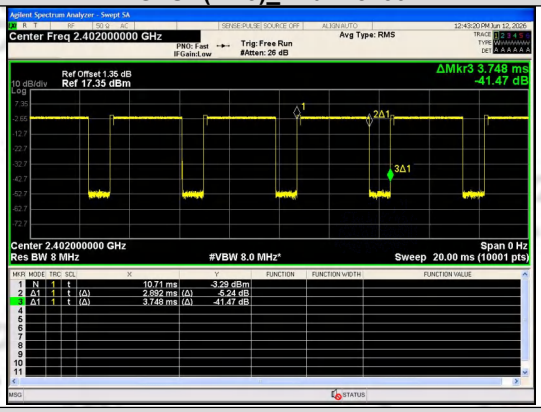
GFSK(DH5)_Channel 0



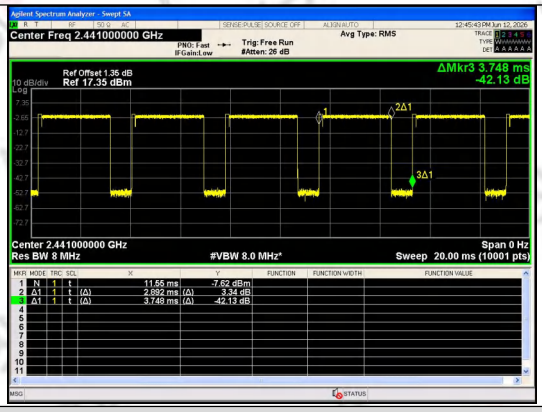
GFSK(DH5)_Channel 39



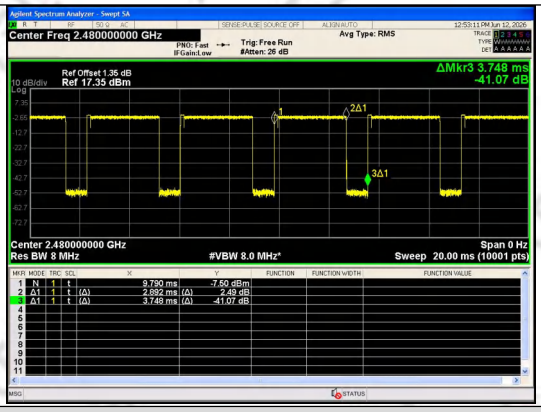
GFSK(DH5)_Channel 78



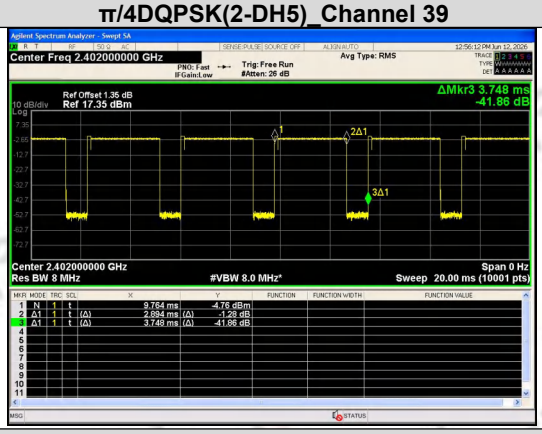
π/4DQPSK(2-DH5)_Channel 0



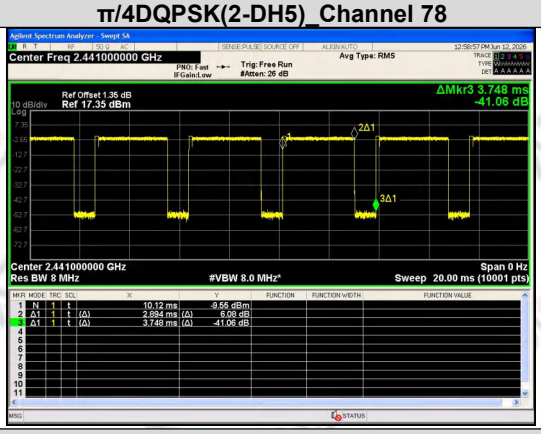
π/4DQPSK(2-DH5)_Channel 39



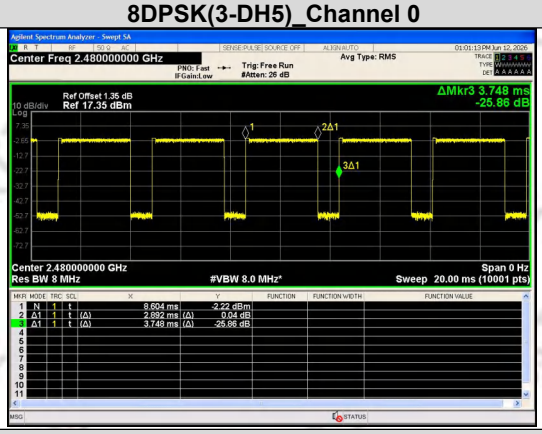
π/4DQPSK(2-DH5)_Channel 78



8DPSK(3-DH5)_Channel 0



8DPSK(3-DH5)_Channel 39



8DPSK(3-DH5)_Channel 78

A5.20dB Bandwidth

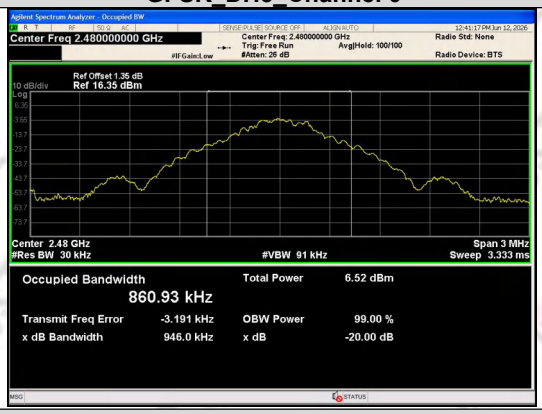
Test Result

Modulation	Channel	Center Frequency (MHz)	20 dB Bandwidth (MHz)
GFSK	0	2402 MHz	0.8500
	39	2441 MHz	0.9503
	78	2480 MHz	0.9460
π/4DQPSK	0	2402 MHz	1.283
	39	2441 MHz	1.276
	78	2480 MHz	1.301
8DPSK	0	2402 MHz	1.295
	39	2441 MHz	1.292
	78	2480 MHz	1.291

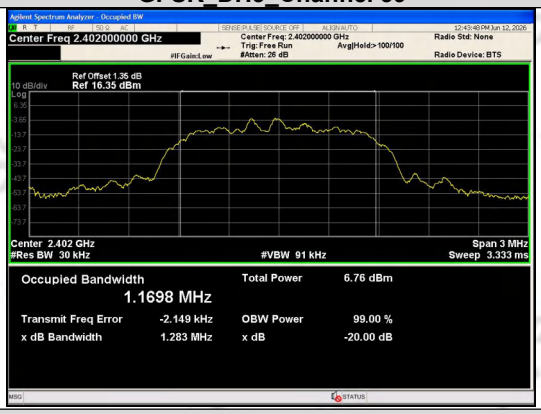
Test Graphs

GFSK_DH5_Channel 0

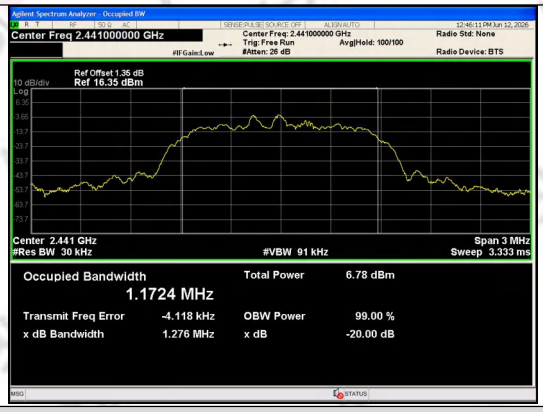
GFSK_DH5_Channel 39



GFSK_DH5_Channel 78

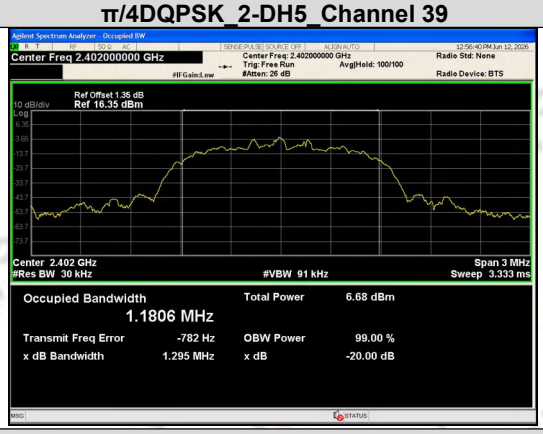


π/4DQPSK_2-DH5_Channel 0

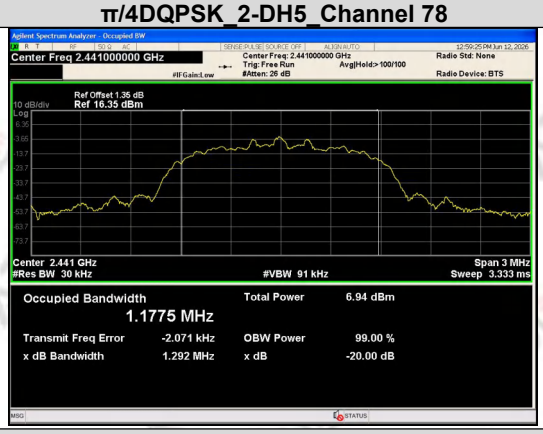


π/4DQPSK_2-DH5_Channel 39

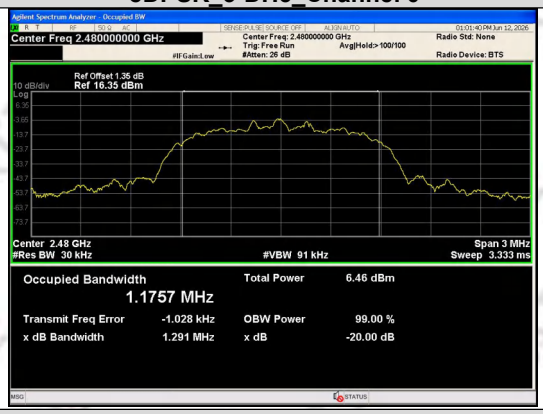
π/4DQPSK_2-DH5_Channel 78



8DPSK_3-DH5_Channel 0



8DPSK_3-DH5_Channel 39



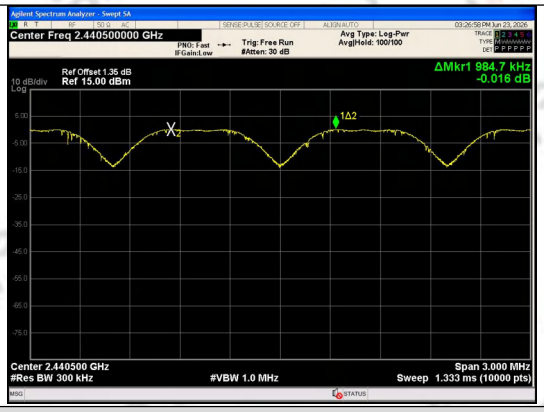
8DPSK_3-DH5_Channel 78

A6.Carrier Frequencies Separation

Test Result

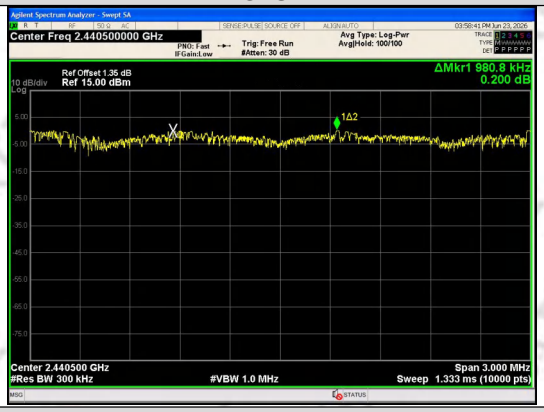
Modulation	Packet	Left Center frequency (MHz)	Right Center frequency (MHz)	Hopping Frequency Separation (MHz)	Limit (MHz)	Result
GFSK	DH5	2439.8461	2440.8308	0.9847	0.634	PASS
π/4DQPSK	2-DH5	2439.9415	2440.8842	0.9427	0.867	PASS
8DPSK	3-DH5	2439.8566	2440.8374	0.9808	0.863	PASS

Test Graphs



GFSK

π/4DQPSK



8DPSK

A7.Conducted Spurious & Band Edge Emission

Test Result

Modulation	Packet	Channel	OOB Emission Frequency (MHz)	OOB Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result
GFSK	DH5	0	2287.90	-44.840	-20.12	-24.720	PASS
			2398.86	-39.094	-20.12	-18.974	PASS
			2400.00	-48.730	-20.12	-28.610	PASS
		39	2633.12	-46.305	-20.13	-26.175	PASS
		78	2287.91	-46.280	-20.64	-25.640	PASS
			2483.50	-52.462	-20.64	-31.822	PASS
π/4DQPSK	2-DH5	0	2399.00	-39.290	-20.15	-19.140	PASS
			2400.00	-51.390	-20.15	-31.240	PASS
			23618.5	-47.222	-20.15	-27.072	PASS
		39	24165.4	-47.280	-20.12	-27.160	PASS
		78	2483.50	-57.023	-20.54	-36.483	PASS
			24803.4	-47.693	-20.54	-27.153	PASS
8DPSK	3-DH5	0	2399.00	-39.676	-20.24	-19.436	PASS
			2400.00	-49.499	-20.24	-29.259	PASS
			24748.4	-47.090	-20.24	-26.850	PASS
		39	24157.9	-47.445	-20.14	-27.305	PASS
		78	2483.50	-55.316	-20.66	-34.656	PASS
			24915.1	-47.064	-20.66	-26.404	PASS

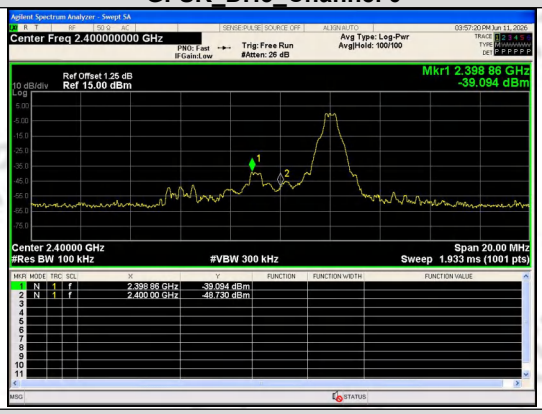
Hopping

Modulation	Packet	Channel	OOB Emission Frequency (MHz)	OOB Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result
GFSK	DH5	Hopping	2400.00	-39.867	-20.45	-19.417	PASS
			2483.50	-51.170	-19.86	-31.310	PASS
π/4DQPSK	2-DH5		2400.00	-41.714	-20.25	-21.464	PASS
			2483.50	-55.962	-20.02	-35.942	PASS
8DPSK	3-DH5		2400.00	-40.240	-20.3	-19.940	PASS
			2483.50	-53.942	-19.85	-34.092	PASS
Note: input compensation coeffcient (dB)= Cable Loss (dB)							

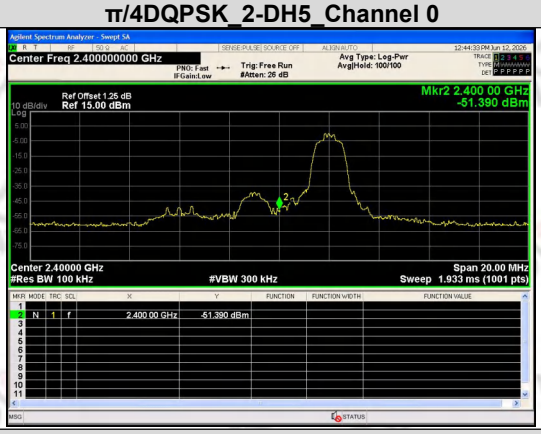
Test Graphs

In-Band Reference Level
GFSK_DH5_Channel 0

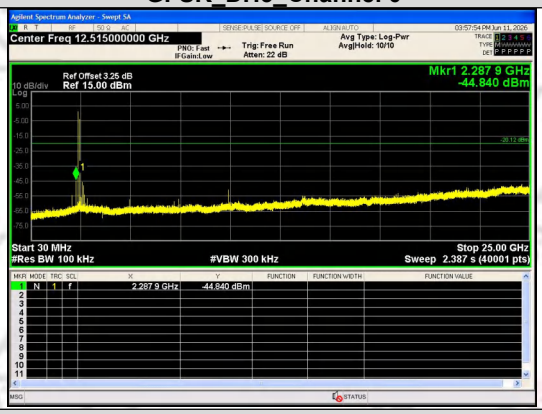
In-Band Reference Level
π/4DQPSK_2-DH5_Channel 0



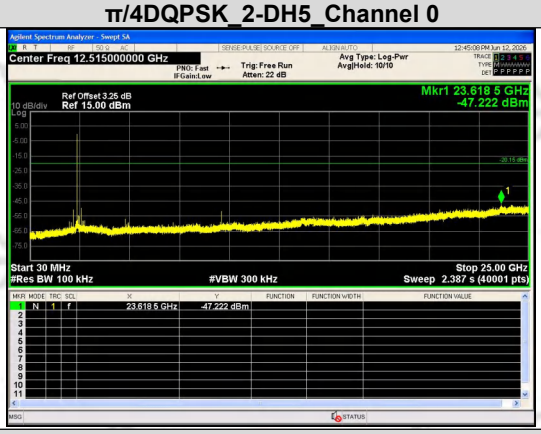
Out Of Band Emission
GFSK_DH5_Channel 0



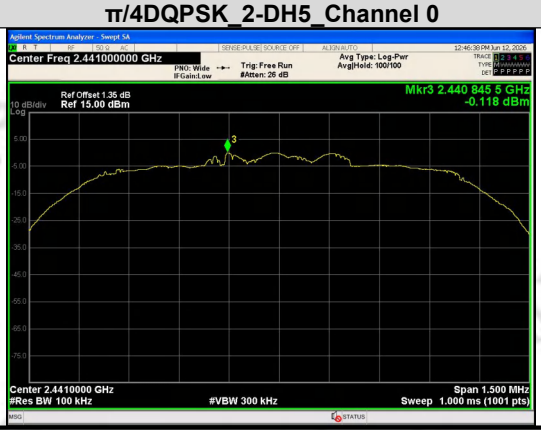
Out Of Band Emission
π/4DQPSK_2-DH5_Channel 0

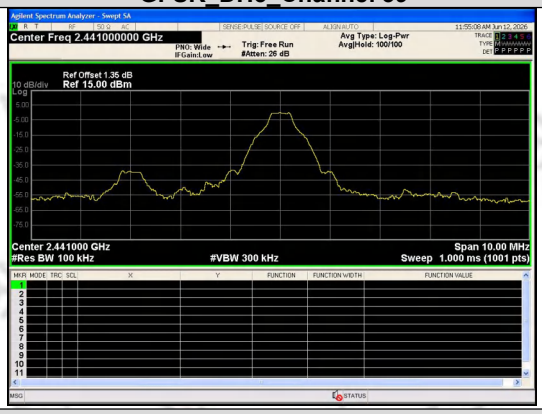
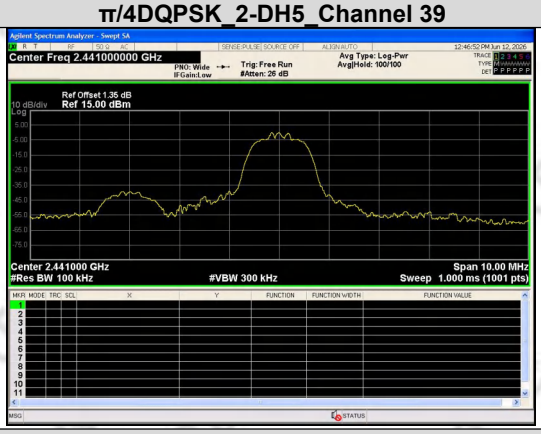
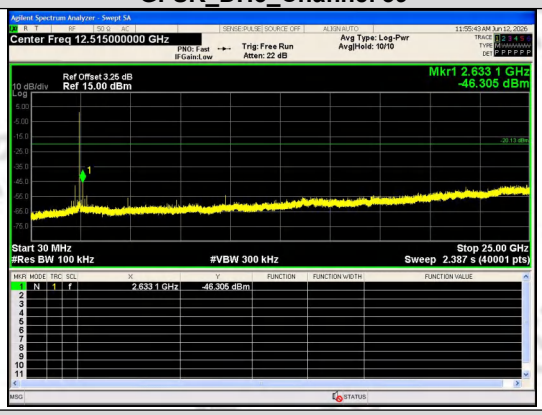
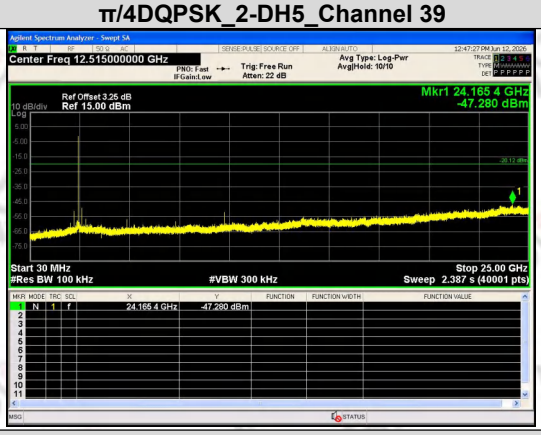
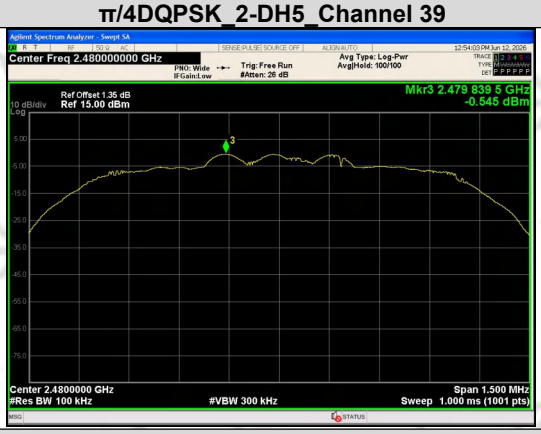


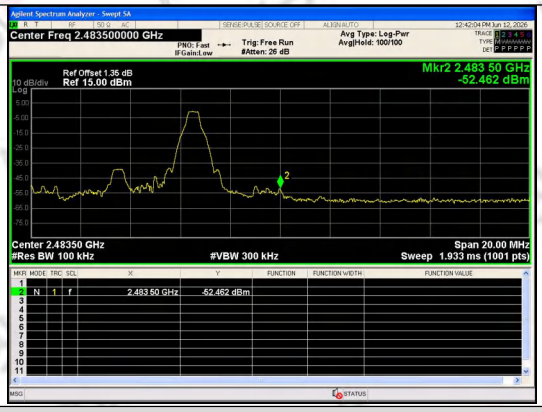
30.0 MHz - 25000.0 MHz
GFSK_DH5_Channel 0



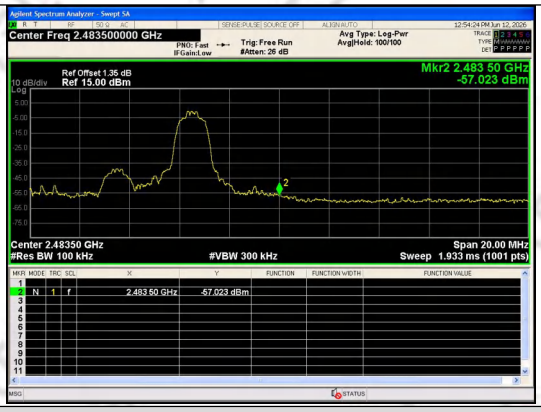
30.0 MHz - 25000.0 MHz
π/4DQPSK_2-DH5_Channel 0



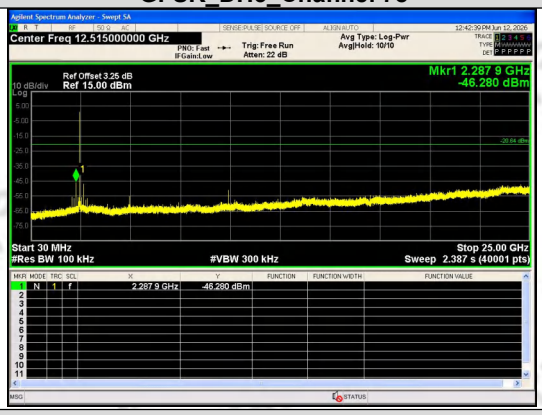
In-Band Reference Level GFSK_DH5_Channel 39	In-Band Reference Level π/4DQPSK_2-DH5_Channel 39
	
Out Of Band Emission GFSK_DH5_Channel 39	**Out Of Band Emission π/4DQPSK_2-DH5_Channel 39**
	
30.0 MHz - 25000.0 MHz GFSK_DH5_Channel 39	**30.0 MHz - 25000.0 MHz π/4DQPSK_2-DH5_Channel 39**
	
In-Band Reference Level GFSK_DH5_Channel 78	**In-Band Reference Level π/4DQPSK_2-DH5_Channel 78**



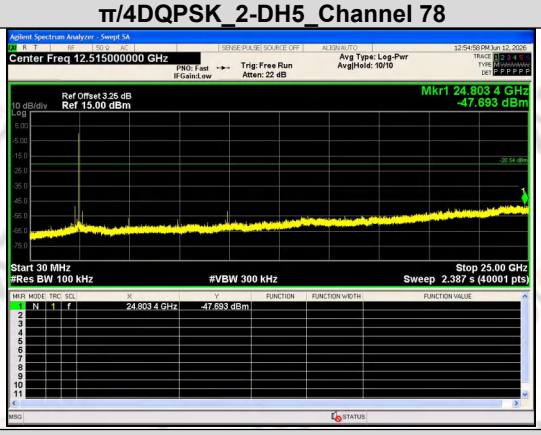
Out Of Band Emission
GFSK_DH5_Channel 78



Out Of Band Emission
π/4DQPSK_2-DH5_Channel 78

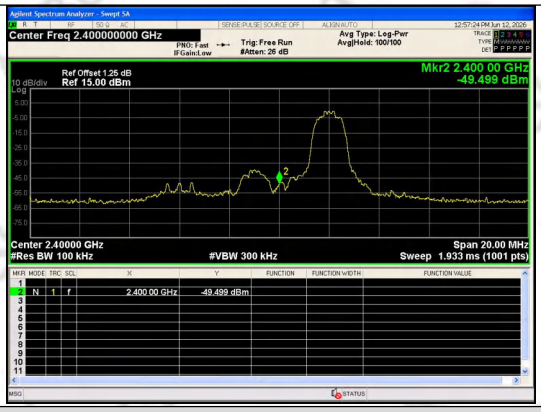


30.0 MHz - 25000.0 MHz
GFSK_DH5_Channel 78

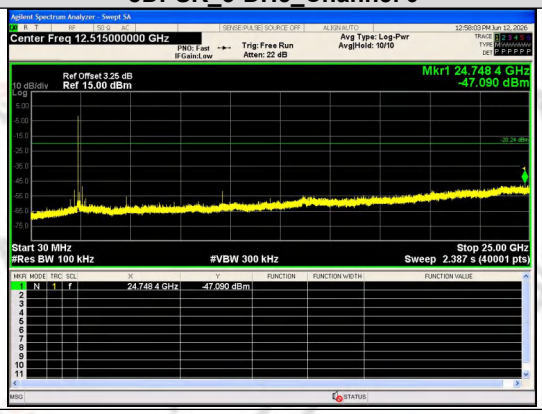


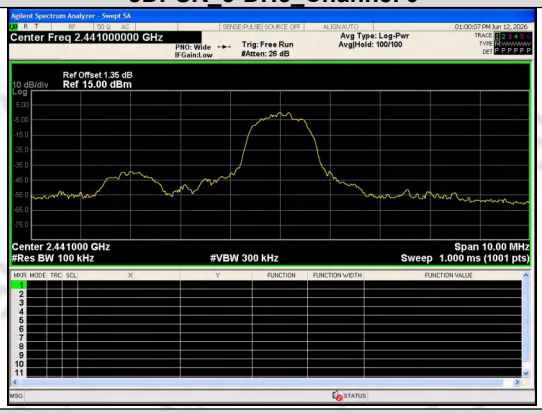
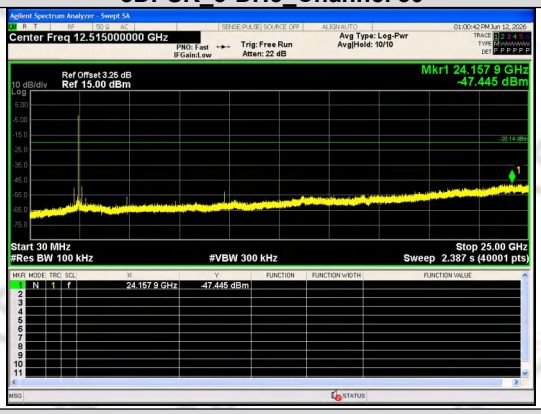
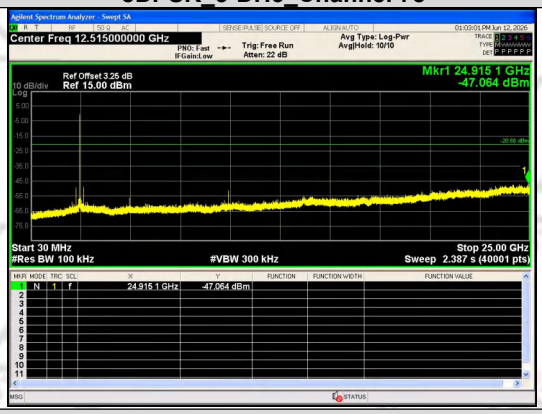
30.0 MHz - 25000.0 MHz
π/4DQPSK_2-DH5_Channel 78

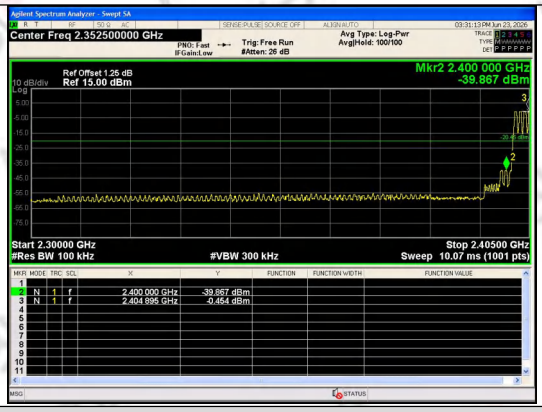
In-Band Reference Level
8DPSK_3-DH5_Channel 0



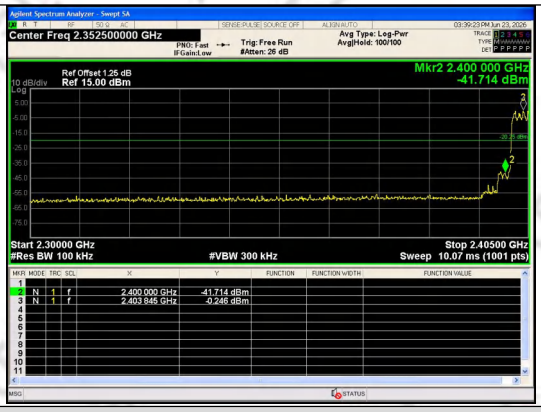
Out Of Band Emission
8DPSK_3-DH5_Channel 0



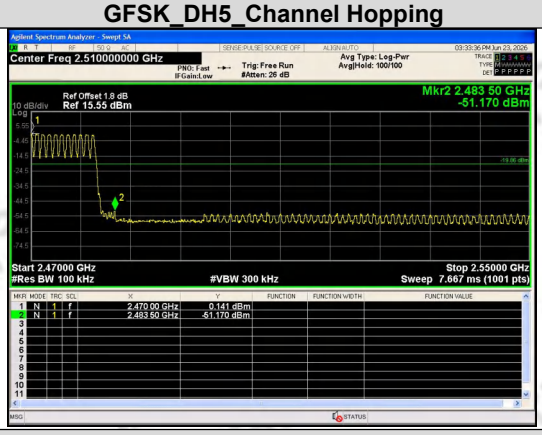
30.0 MHz - 25000.0 MHz 8DPSK_3-DH5_Channel 0	In-Band Reference Level 8DPSK_3-DH5_Channel 39
	
Out Of Band Emission 8DPSK_3-DH5_Channel 39	**30.0 MHz - 25000.0 MHz 8DPSK_3-DH5_Channel 39**
	
In-Band Reference Level 8DPSK_3-DH5_Channel 78	**Out Of Band Emission 8DPSK_3-DH5_Channel 78**
	
30.0 MHz - 25000.0 MHz 8DPSK_3-DH5_Channel 78	



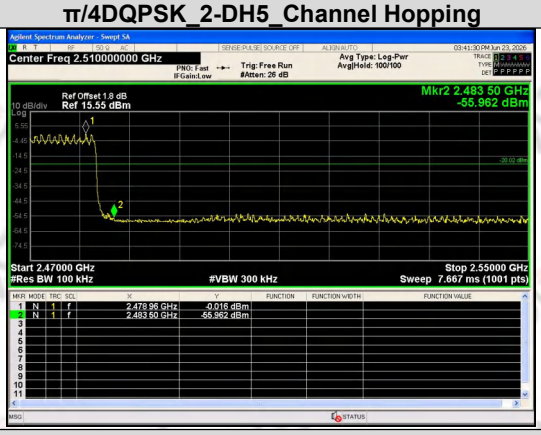
Out Of Band Emission(Left)
GFSK_DH5_Channel Hopping



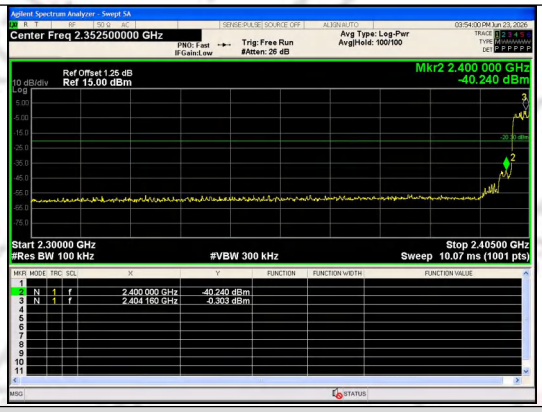
Out Of Band Emission(Left)
π/4DQPSK_2-DH5_Channel Hopping



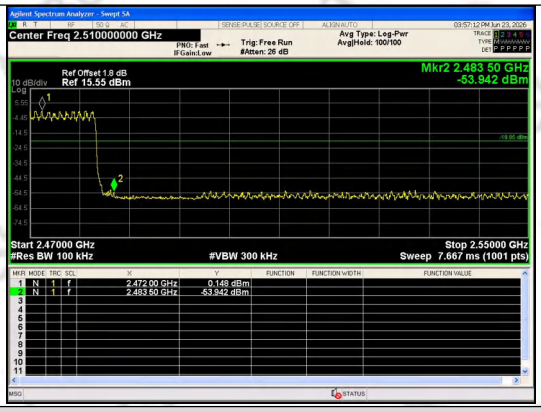
Out Of Band Emission(Right)
GFSK_DH5_Channel Hopping



Out Of Band Emission(Right)
π/4DQPSK_2-DH5_Channel Hopping



Out Of Band Emission(Left)
8DPSK_3-DH5_Channel Hopping



Out Of Band Emission(Right)
8DPSK_3-DH5_Channel Hopping

※※※※※END※※※※※