

Duty Cycle

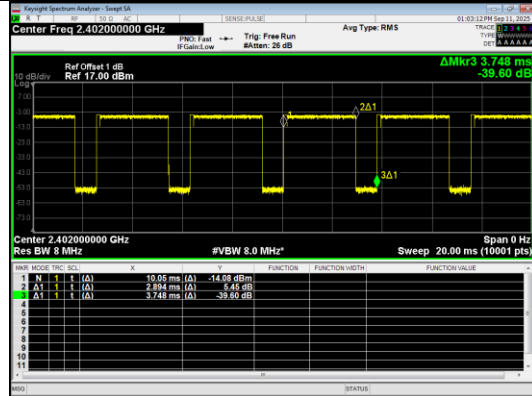
Test Result

Modulation	Packets	Channel	On Time (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle (linear)	Duty Cycle Factor (dB)	1/T
GFSK	DH5	0	2.886	3.748	77.00	0.7700	1.1351	0.3465
		39	2.886	3.748	77.00	0.7700	1.1351	0.3465
		78	2.886	3.748	77.00	0.7700	1.1351	0.3465
$\pi/4$ DQPSK	2-DH5	0	2.890	3.748	77.11	0.7711	1.1289	0.3460
		39	2.892	3.748	77.16	0.7716	1.1261	0.3458
		78	2.890	3.748	77.11	0.7711	1.1289	0.3460
8DPSK	3-DH5	0	2.894	3.748	77.21	0.7721	1.1233	0.3455
		39	2.892	3.748	77.16	0.7716	1.1261	0.3458
		78	2.894	3.748	77.21	0.7721	1.1233	0.3455

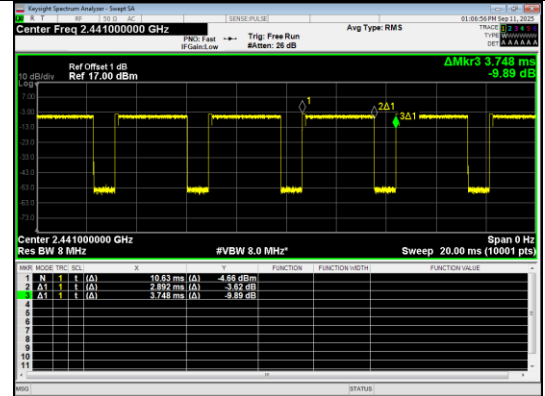
Test Graphs



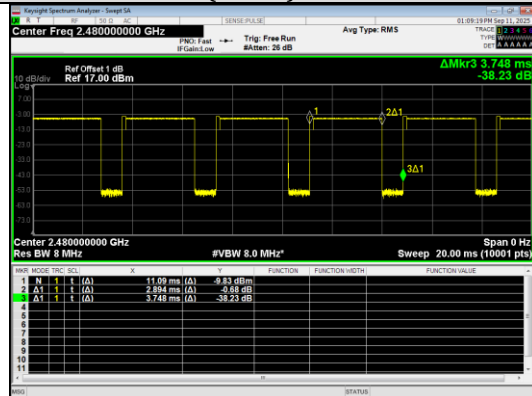
$\pi/4$ DQPSK(2-DH5)_Channel 39



$\pi/4$ DQPSK(2-DH5)_Channel 78



8DPSK(3-DH5)_Channel 0



8DPSK(3-DH5)_Channel 39

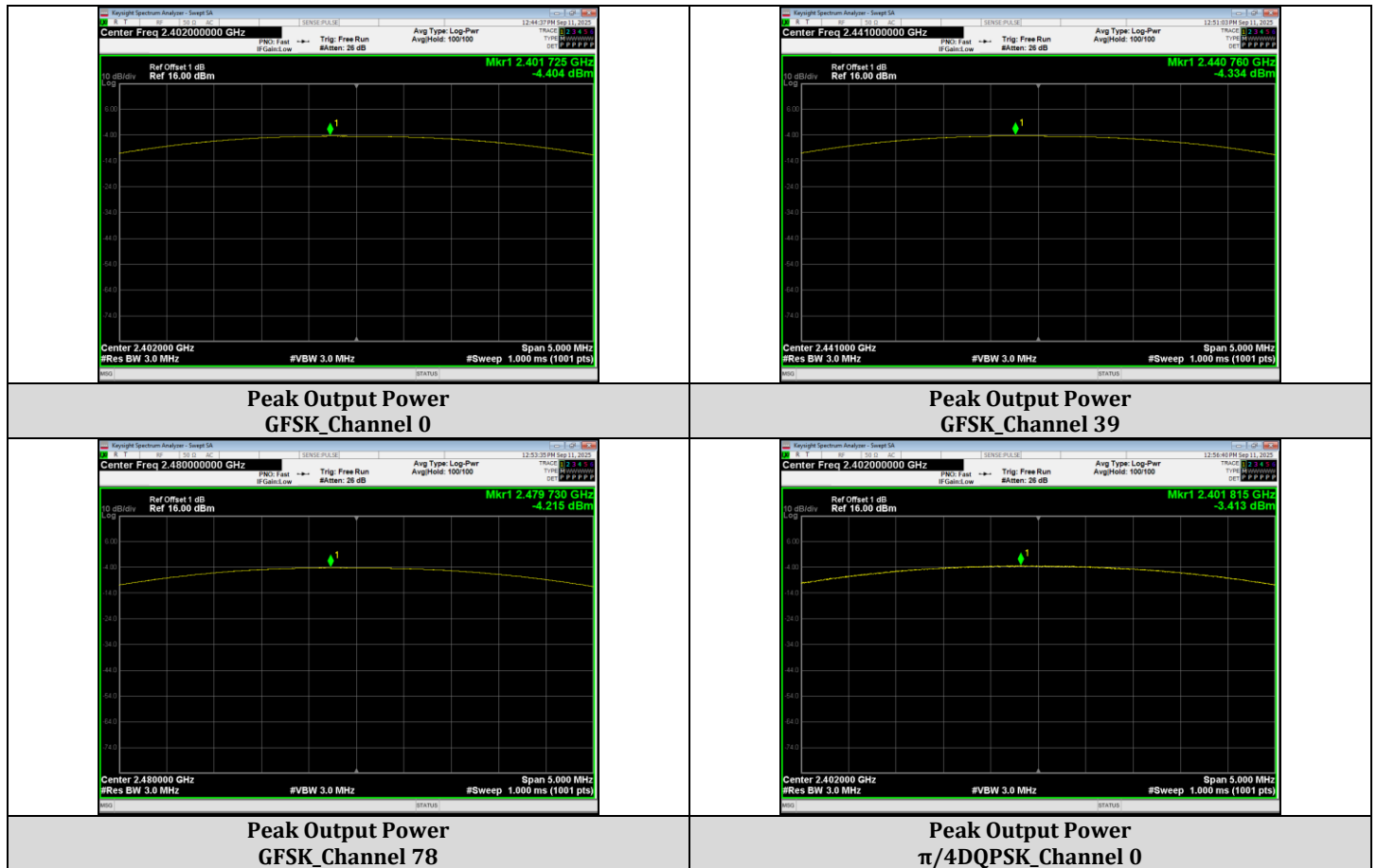
8DPSK(3-DH5)_Channel 78

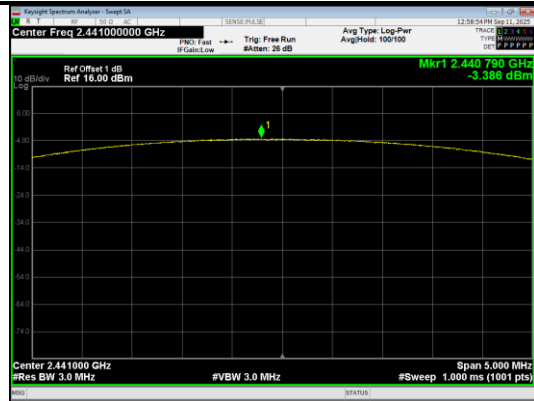
Conducted Output Power

Test Result

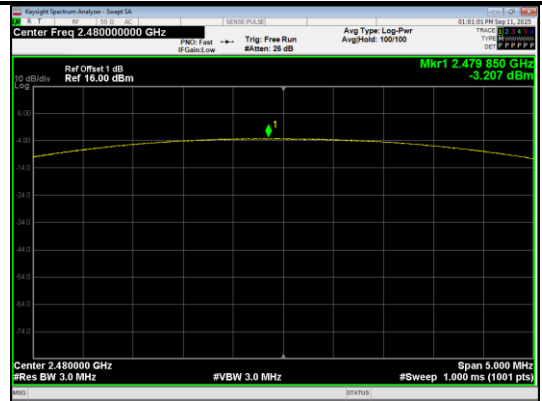
Modulation	Packet Type	Channel	Peak Output Power (dBm)	Limit (dBm)	Result
GFSK	DH5	0	-4.40	≤30	PASS
		39	-4.33		PASS
		78	-4.21		PASS
$\pi/4$ DQPSK	2-DH5	0	-3.41	≤20.97	PASS
		39	-3.39		PASS
		78	-3.21		PASS
8DPSK	3-DH5	0	-3.06		PASS
		39	-2.99		PASS
		78	-2.88		PASS

Test Graphs

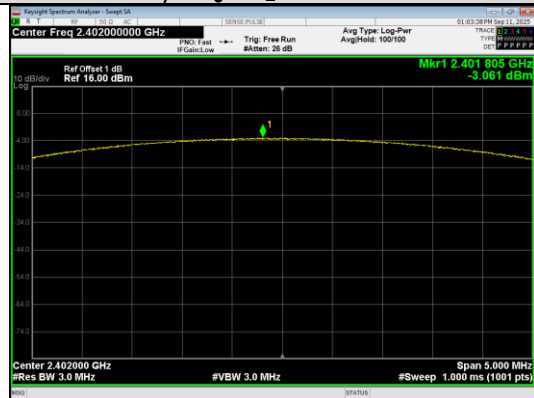




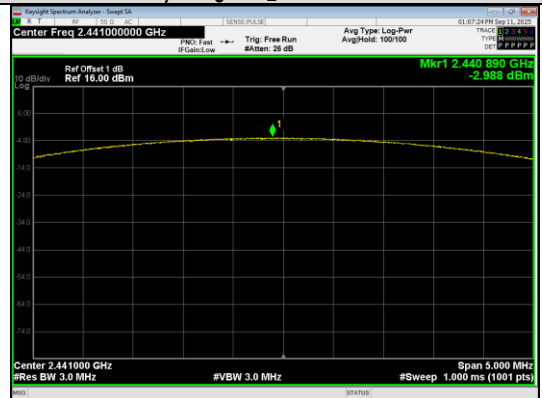
Peak Output Power
 $\pi/4$ DQPSK_Channel 39



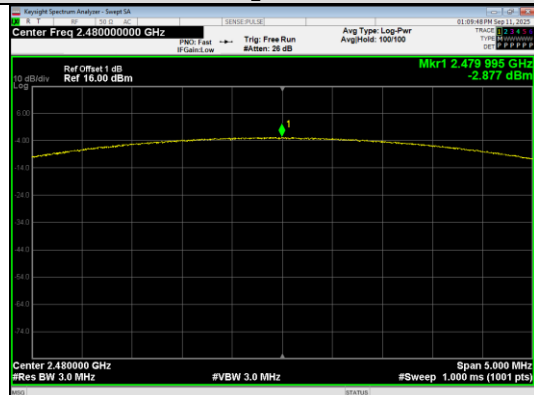
Peak Output Power
 $\pi/4$ DQPSK_Channel 78



Peak Output Power
8DPSK_Channel 0



Peak Output Power
8DPSK_Channel 39



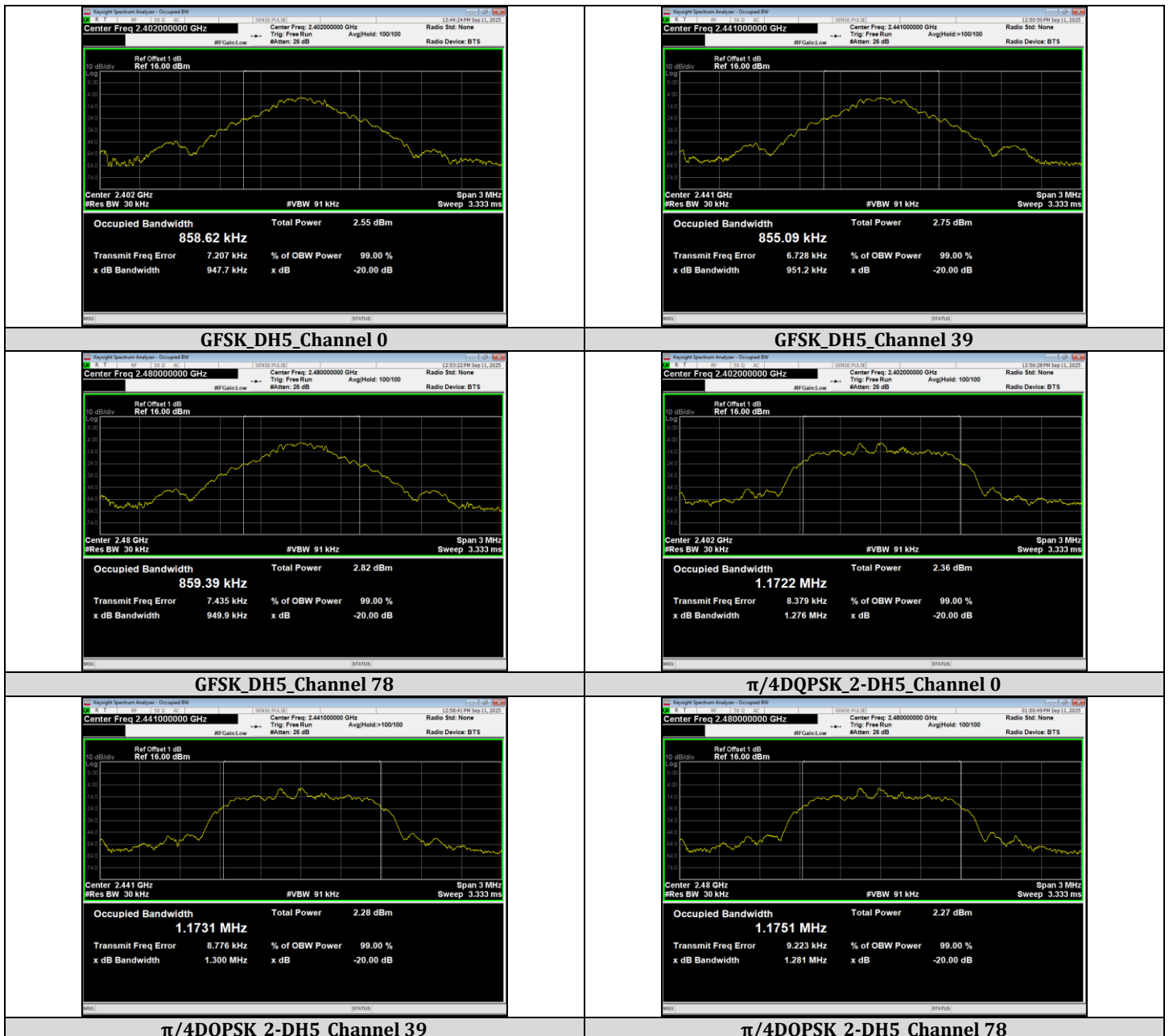
Peak Output Power
8DPSK_Channel 78

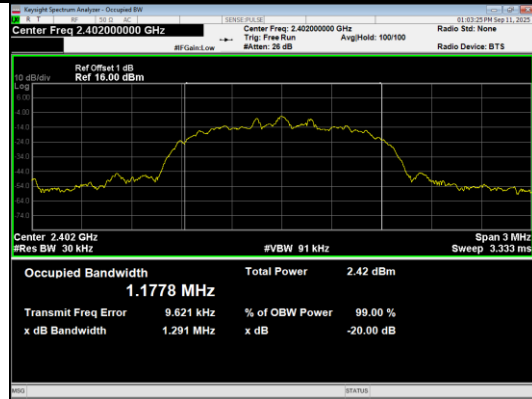
20dB Bandwidth

Test Result

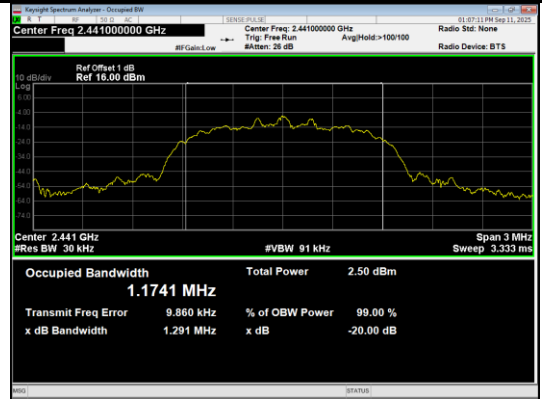
Modulation	Channel	Center Frequency (MHz)	20 dB Bandwidth (MHz)
GFSK	0	2402 MHz	0.9500
	39	2441 MHz	0.9500
	78	2480 MHz	0.9500
$\pi/4$ DQPSK	0	2402 MHz	1.280
	39	2441 MHz	1.300
	78	2480 MHz	1.280
8DPSK	0	2402 MHz	1.290
	39	2441 MHz	1.290
	78	2480 MHz	1.290

Test Graphs

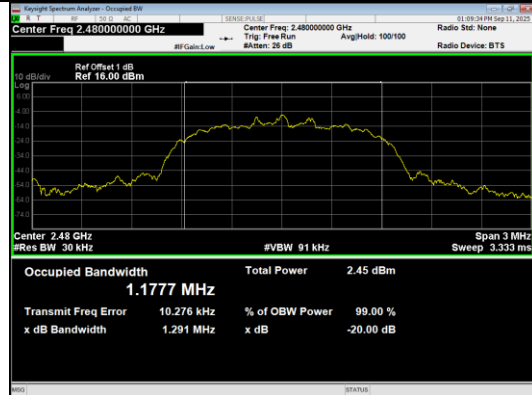




8DPSK_3-DH5_Channel 0



8DPSK_3-DH5_Channel 39



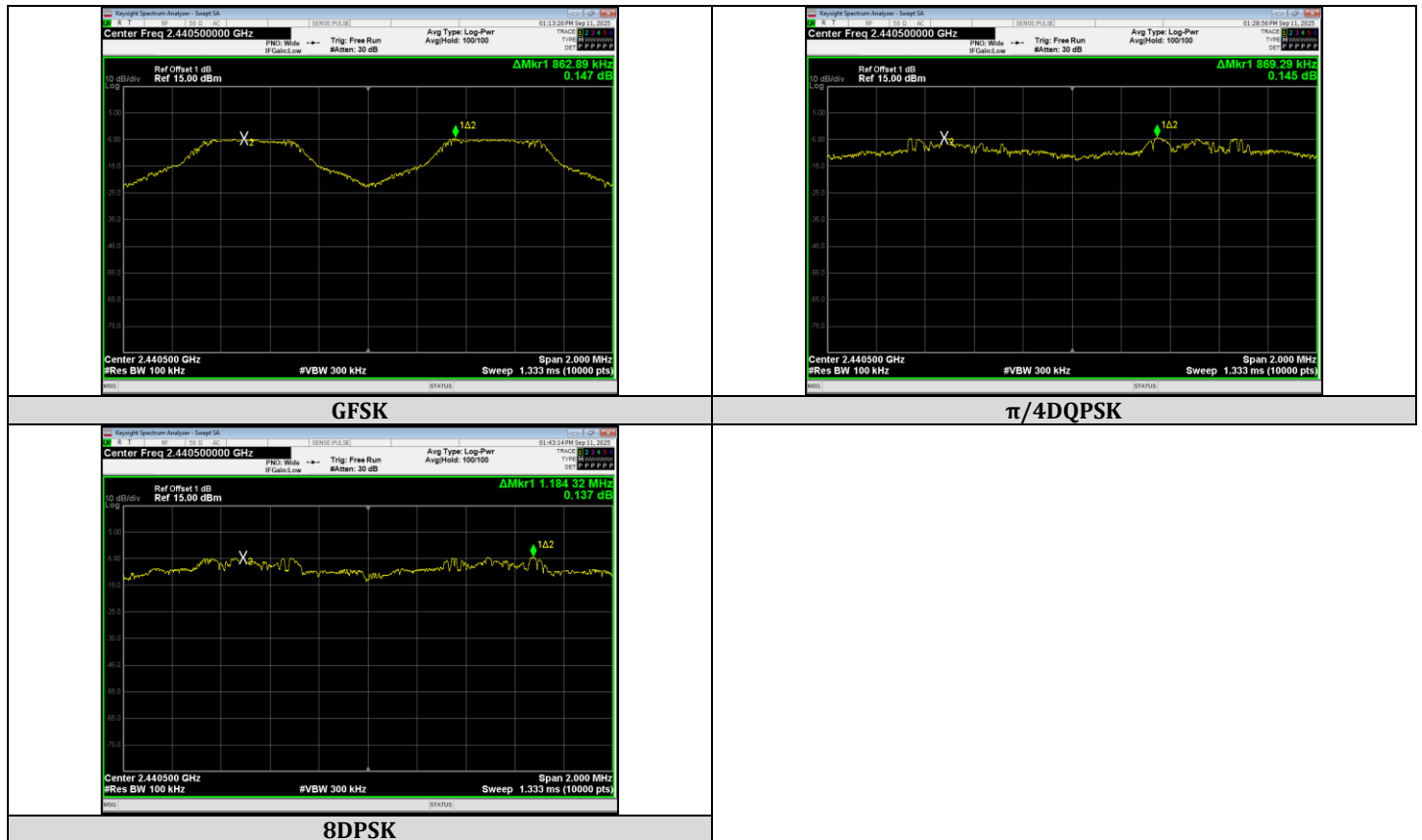
8DPSK_3-DH5_Channel 78

Carrier Frequencies Separation

Test Result

Modulation	Packet	Left Center frequency (MHz)	Right Center frequency (MHz)	Hopping Frequency Separation (MHz)	Limit (MHz)	Result
GFSK	DH5	2439.9932	2440.8561	0.8629	0.99	PASS
$\pi/4$ DQPSK	2-DH5	2439.978	2440.8473	0.8693	0.99	PASS
8DPSK	3-DH5	2439.9894	2441.1738	1.1843	0.99	PASS

Test Graphs

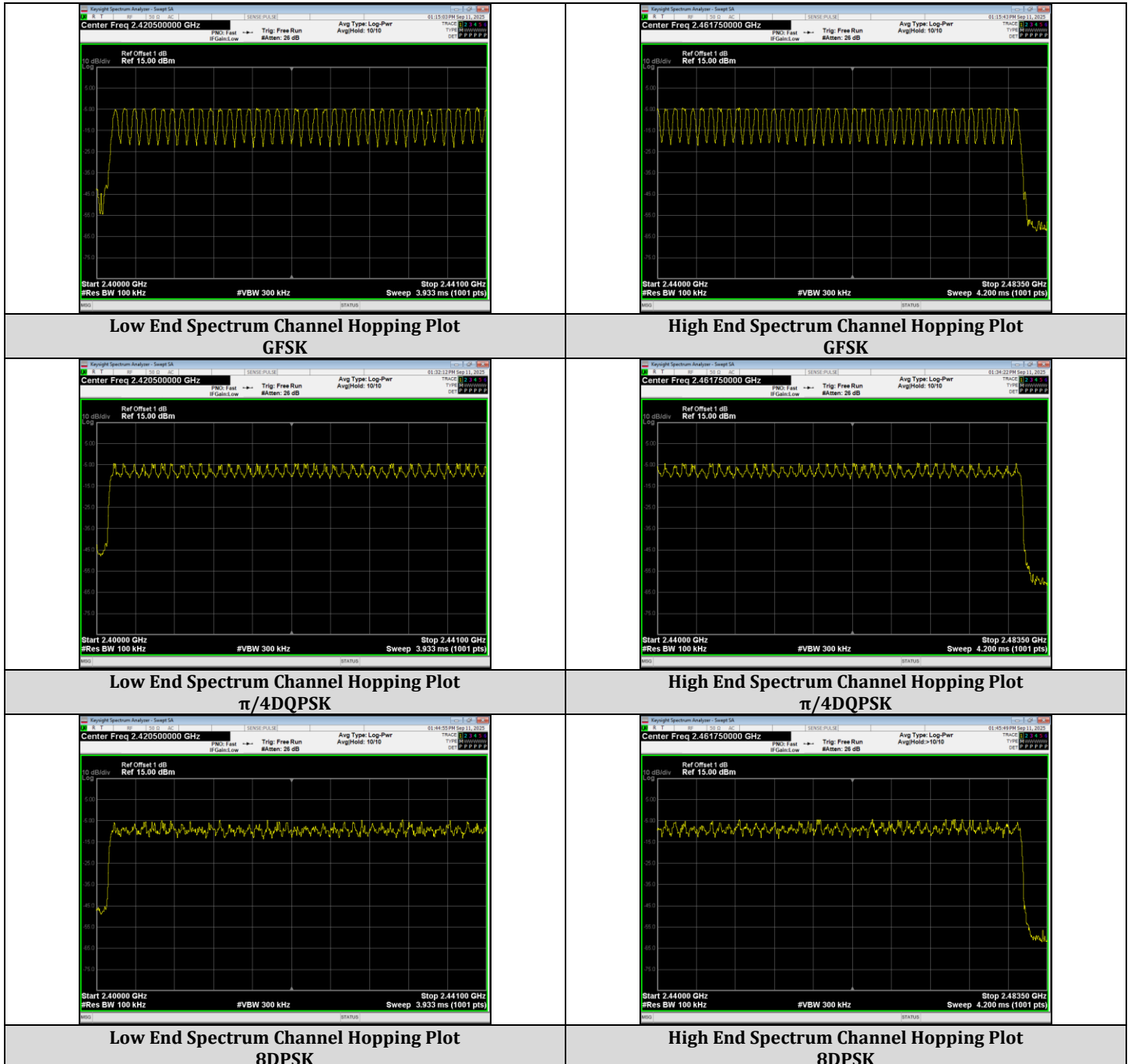


Number Of Hopping Channel

Test Result

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

Test Graphs

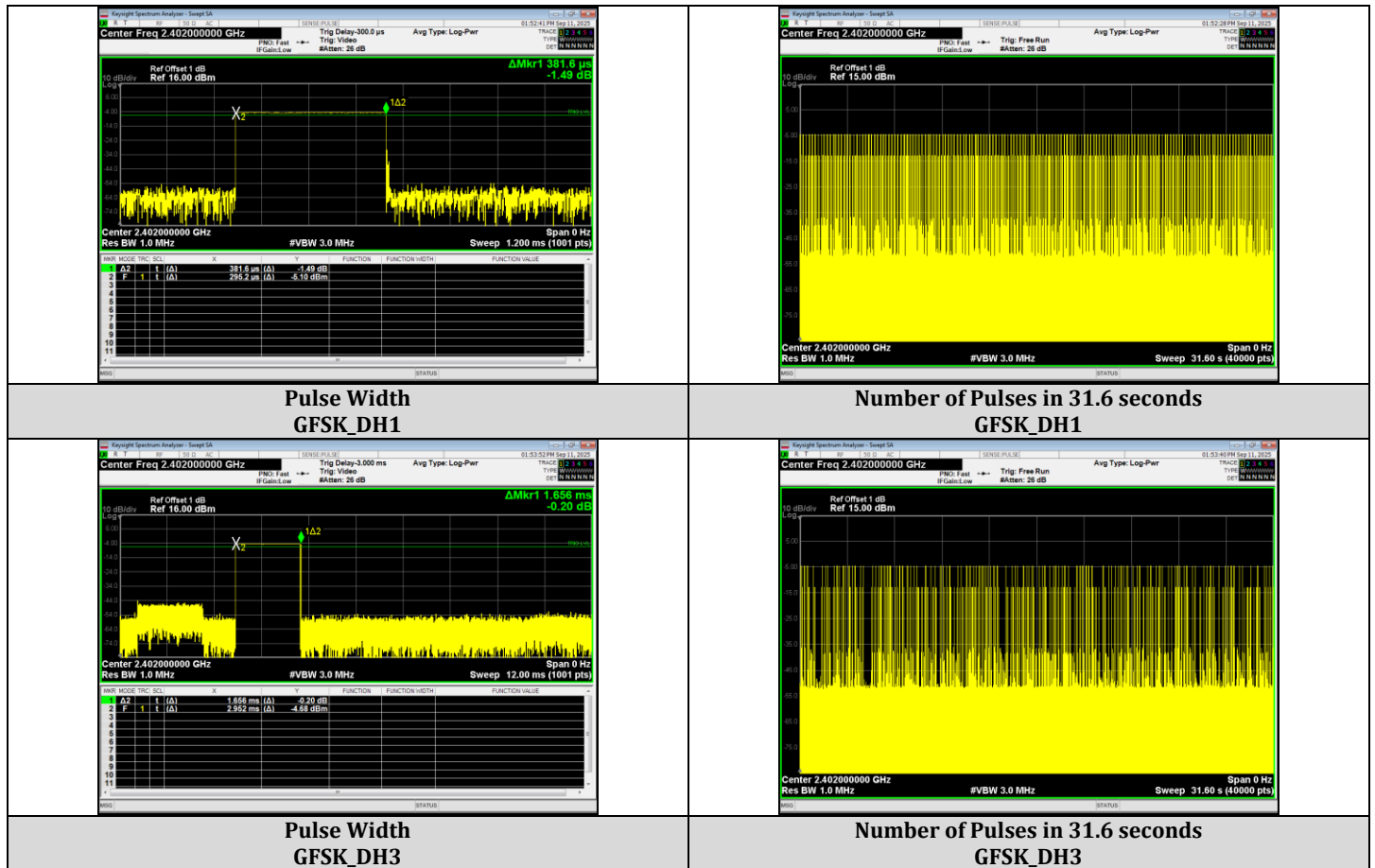


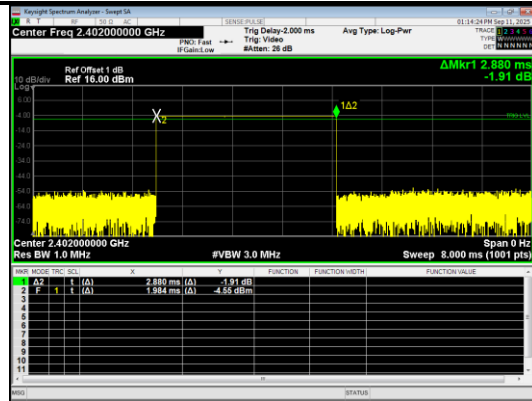
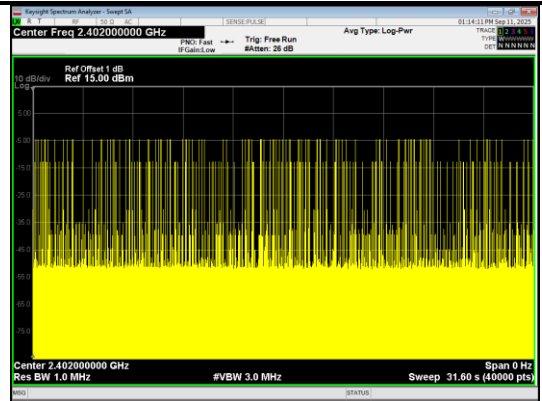
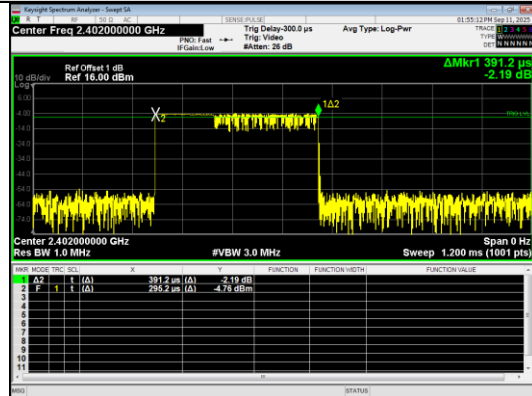
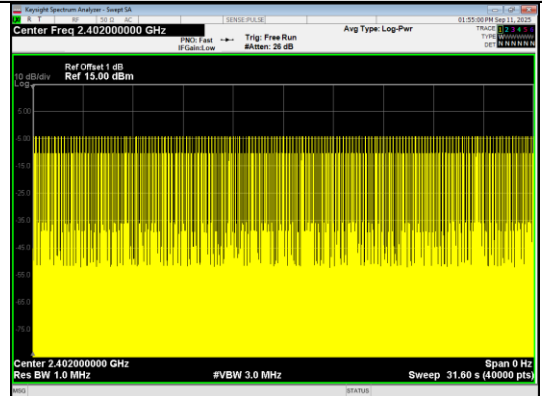
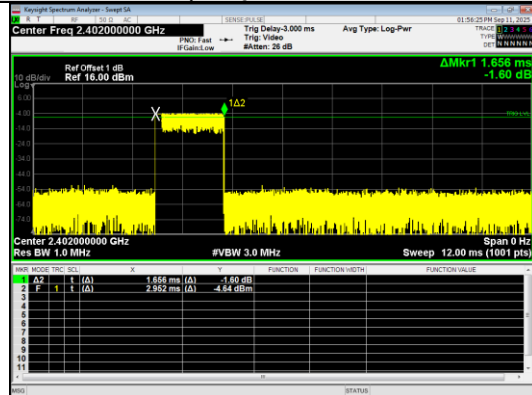
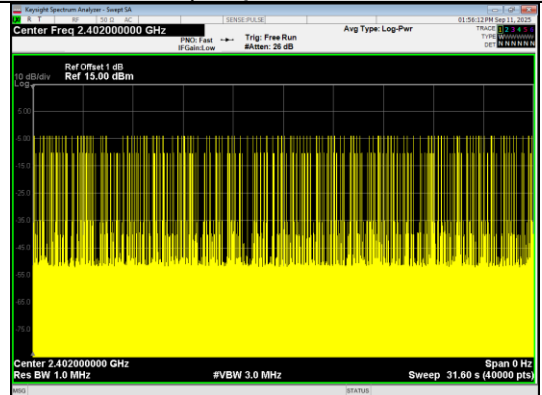
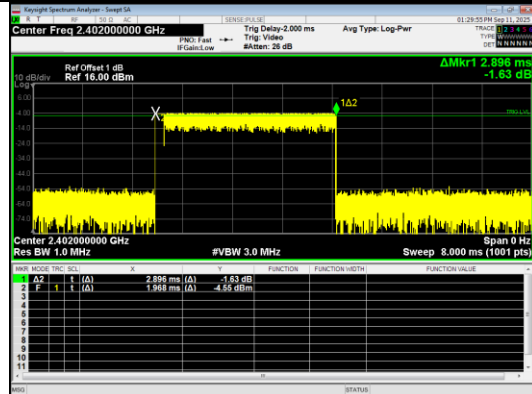
Dwell Time

Test Result

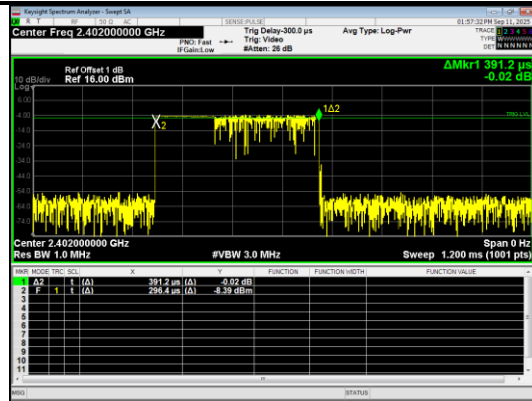
Modulation	Packet	Channel	Pulse Width (ms)	Number of Pulses in 31.6 seconds	Dwell Time (ms)	Limit (ms)	Result
GFSK	DH1	Hopping	0.3816	320	122.11	< 400	PASS
	DH3		1.656	156	258.34		PASS
	DH5		2.880	97	279.36		PASS
$\pi/4$ DQPSK	2-DH1		0.3912	318	124.4		PASS
	2-DH3		1.656	163	269.93		PASS
	2-DH5		2.896	98	283.81		PASS
8DPSK	3-DH1		0.3912	318	124.4		PASS
	3-DH3		1.632	151	246.43		PASS
	3-DH5		2.880	104	299.52		PASS

Test Graphs




Pulse Width
GFSK_DH5

Number of Pulses in 31.6 seconds
GFSK_DH5

Pulse Width
 $\pi/4$ DQPSK_2-DH1

Number of Pulses in 31.6 seconds
 $\pi/4$ DQPSK_2-DH1

Pulse Width
 $\pi/4$ DQPSK_2-DH3

Number of Pulses in 31.6 seconds
 $\pi/4$ DQPSK_2-DH3

Pulse Width
 $\pi/4$ DQPSK_2-DH5

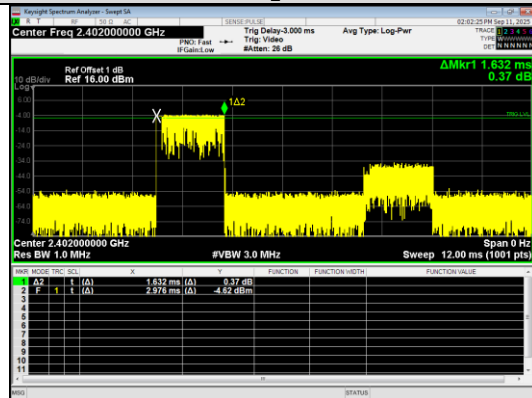
Number of Pulses in 31.6 seconds
 $\pi/4$ DQPSK_2-DH5



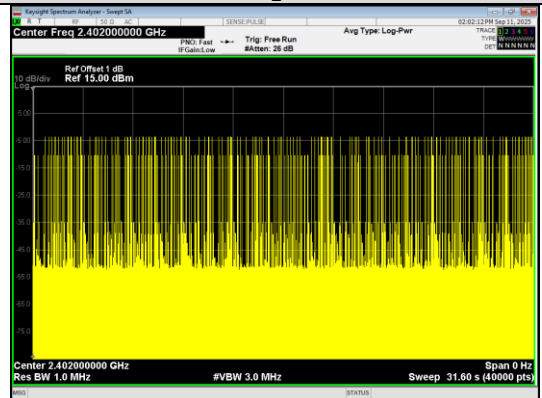
**Pulse Width
8DPSK_3-DH1**



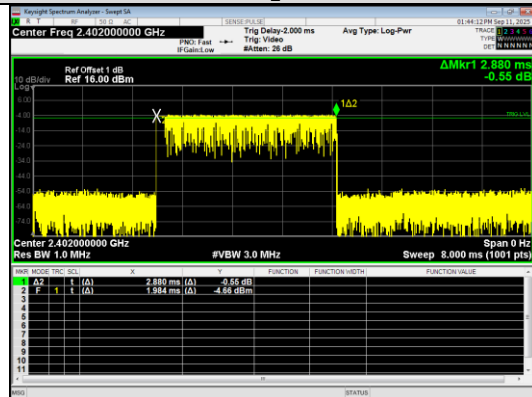
**Number of Pulses in 31.6 seconds
8DPSK_3-DH1**



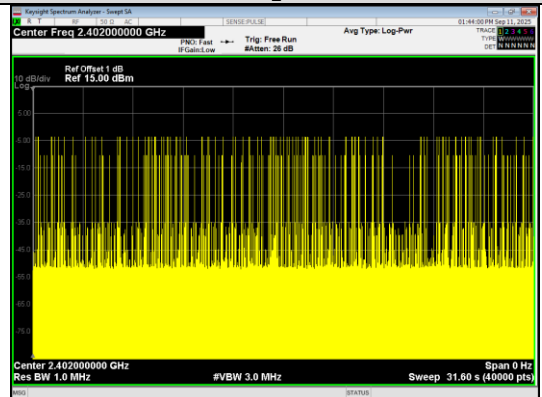
**Pulse Width
8DPSK_3-DH3**



**Number of Pulses in 31.6 seconds
8DPSK_3-DH3**



**Pulse Width
8DPSK_3-DH5**



**Number of Pulses in 31.6 seconds
8DPSK_3-DH5**

Conducted Out Of Band Emission

Test Result

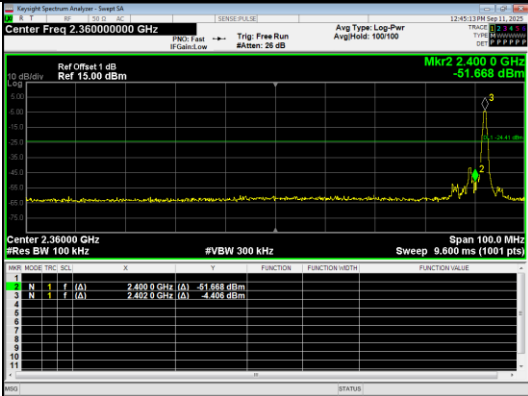
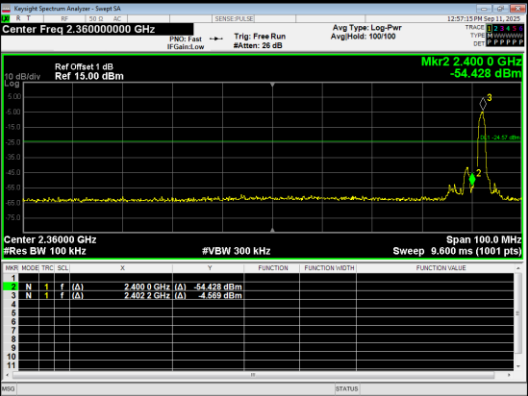
Non-Hopping

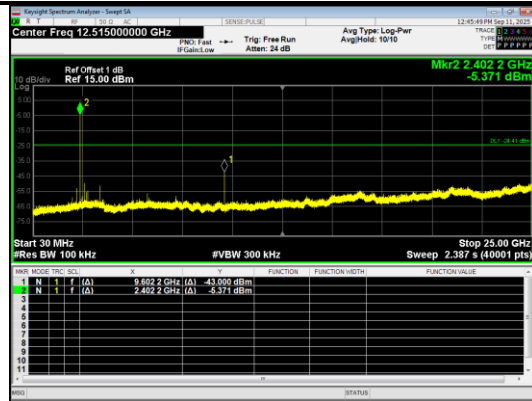
Modulation	Packet	Channel	OOB Emission Frequency (MHz)	OOB Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result
GFSK	DH5	0	2399.00	-41.891	-24.41	-17.481	PASS
			2400.00	-51.670	-24.41	-27.260	PASS
			9602.20	-42.999	-24.41	-18.589	PASS
		39	9758.31	-44.277	-24.46	-19.817	PASS
		78	2483.50	-56.540	-24.3	-32.240	PASS
			9913.75	-43.609	-24.3	-19.309	PASS
$\pi/4$ DQPSK	2-DH5	0	2399.00	-41.741	-24.57	-17.171	PASS
			2400.00	-54.430	-24.57	-29.860	PASS
			9602.20	-42.806	-24.57	-18.236	PASS
		39	9758.31	-44.230	-24.39	-19.840	PASS
		78	2483.50	-59.840	-24.23	-35.610	PASS
			9913.75	-43.339	-24.23	-19.109	PASS
8DPSK	3-DH5	0	2399.00	-41.817	-24.47	-17.347	PASS
			2400.00	-54.980	-24.47	-30.510	PASS
			9602.20	-42.888	-24.47	-18.418	PASS
		39	9758.31	-44.294	-24.4	-19.894	PASS
		78	2483.50	-59.170	-24.25	-34.920	PASS
			9913.75	-43.458	-24.25	-19.208	PASS

Hopping

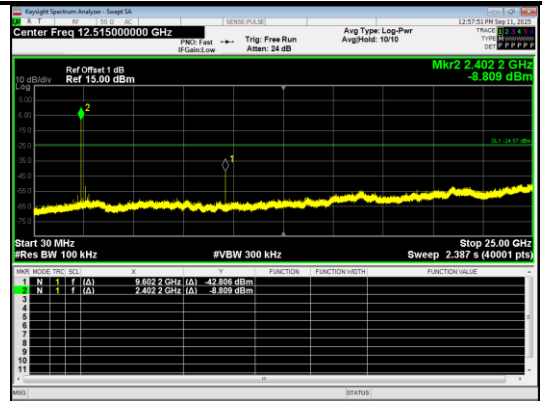
Modulation	Packet	Channel	OOB Emission Frequency (MHz)	OOB Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result
GFSK	DH5	Hopping	2400.00	-41.780	-24.46	-17.320	PASS
			2483.50	-56.860	-24.35	-32.510	PASS
$\pi/4$ DQPSK	2-DH5		2400.00	-42.510	-24.42	-18.090	PASS
			2483.50	-59.560	-24.35	-35.210	PASS
8DPSK	3-DH5		2400.00	-42.040	-24.57	-17.470	PASS
			2483.50	-61.490	-24.39	-37.100	PASS

Test Graphs

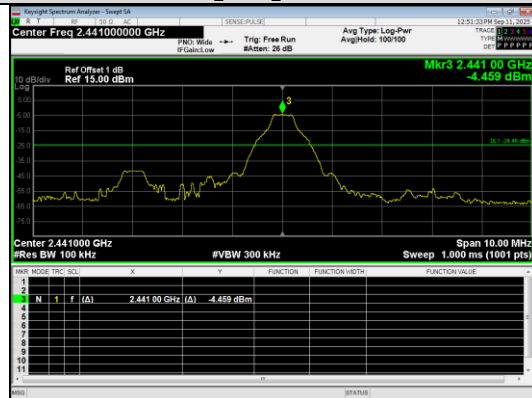
	
Out Of Band Emission GFSK_DH5_Channel 0	Out Of Band Emission $\pi/4$ DQPSK_2-DH5_Channel 0



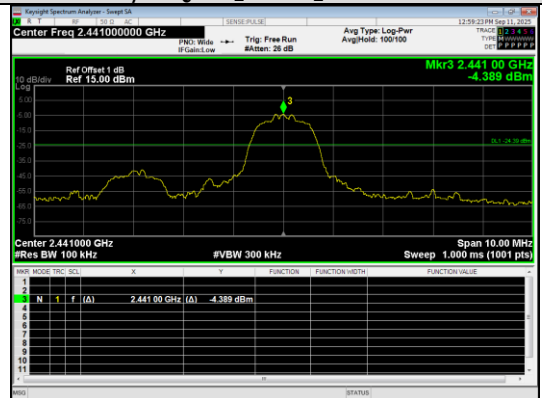
30.0 MHz - 25000.0 MHz
GFSK_DH5_Channel 0



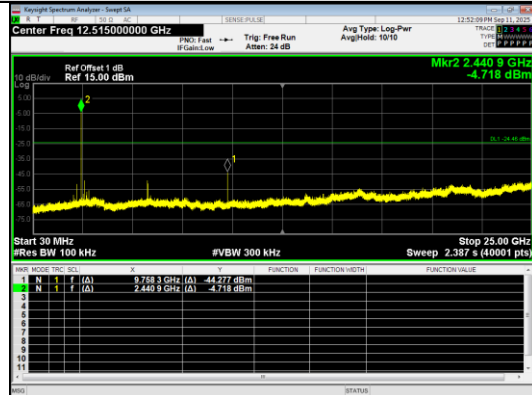
30.0 MHz - 25000.0 MHz
 $\pi/4$ DQPSK_2-DH5_Channel 0



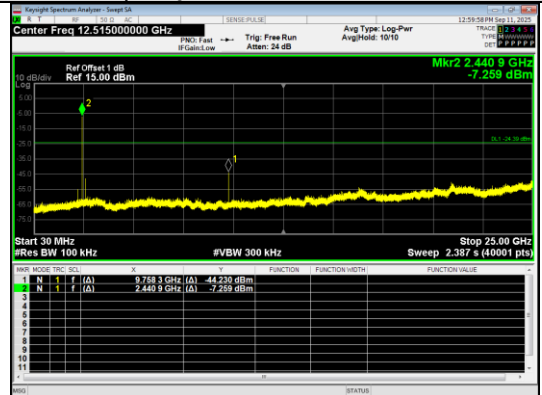
Out Of Band Emission
GFSK_DH5_Channel 39



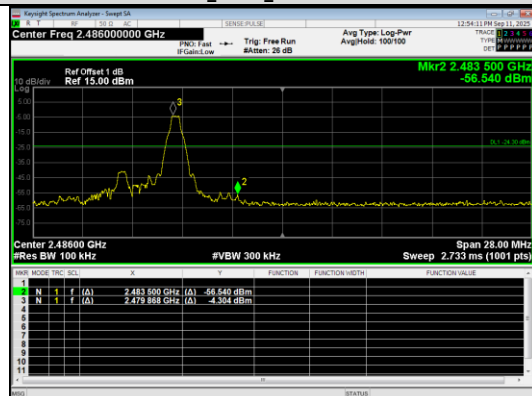
Out Of Band Emission
 $\pi/4$ DQPSK_2-DH5_Channel 39



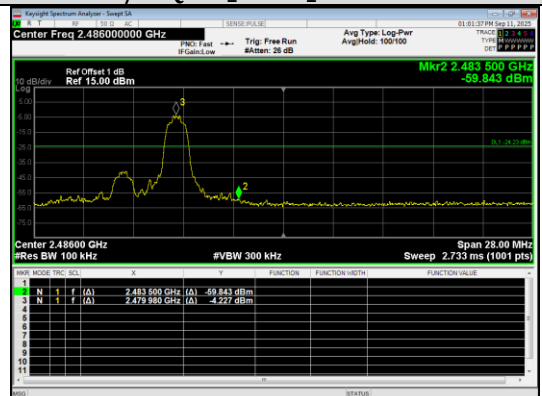
30.0 MHz - 25000.0 MHz
GFSK_DH5_Channel 39



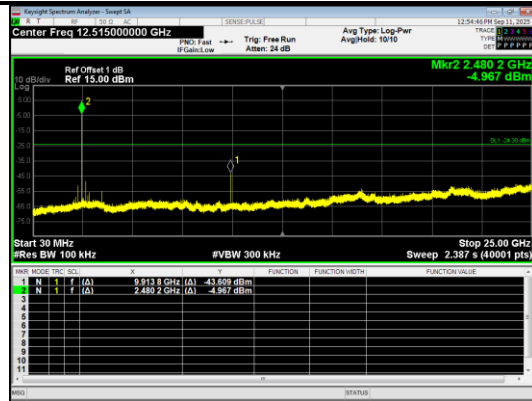
30.0 MHz - 25000.0 MHz
 $\pi/4$ DQPSK_2-DH5_Channel 39



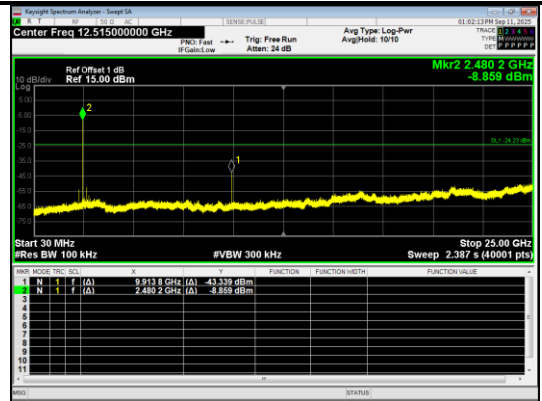
Out Of Band Emission
GFSK_DH5_Channel 78



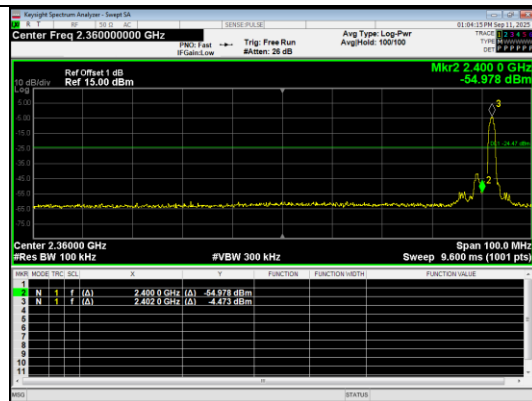
Out Of Band Emission
 $\pi/4$ DQPSK_2-DH5_Channel 78



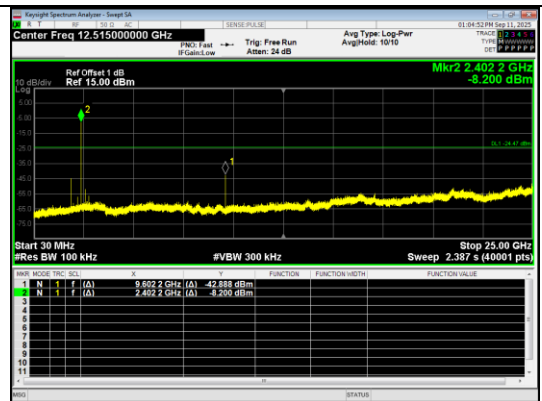
30.0 MHz - 25000.0 MHz
GFSK_DH5_Channel 78



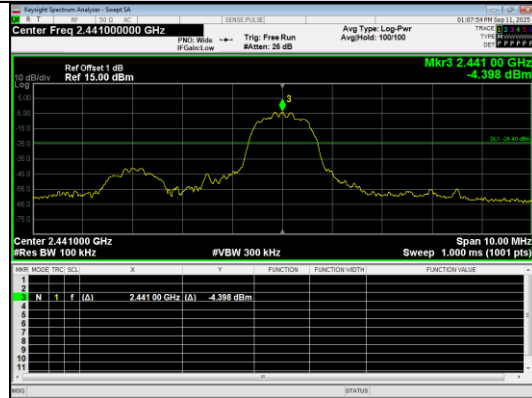
30.0 MHz - 25000.0 MHz
 $\pi/4$ DQPSK_2-DH5_Channel 78



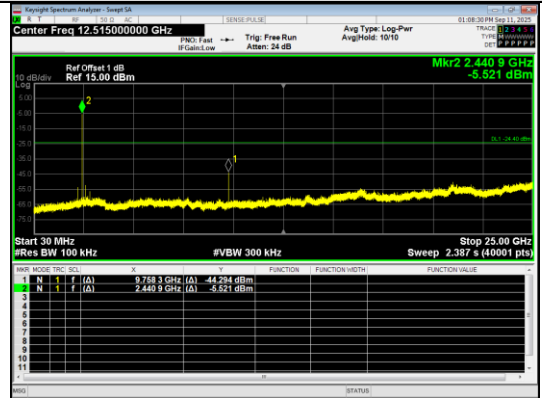
Out Of Band Emission
8DPSK_3-DH5_Channel 0



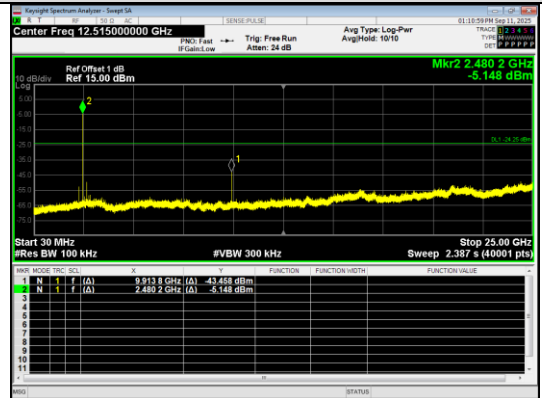
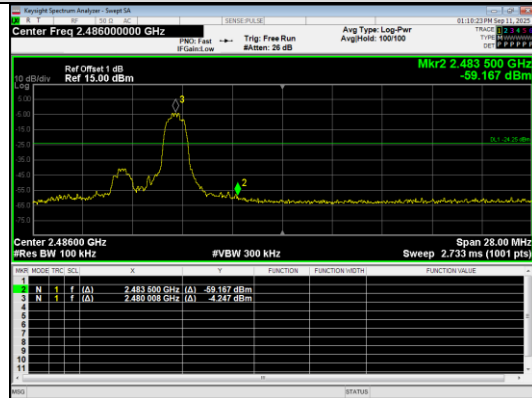
30.0 MHz - 25000.0 MHz
8DPSK_3-DH5_Channel 0



Out Of Band Emission
8DPSK_3-DH5_Channel 39

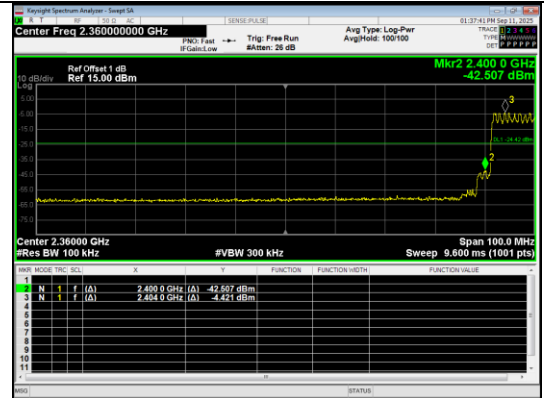
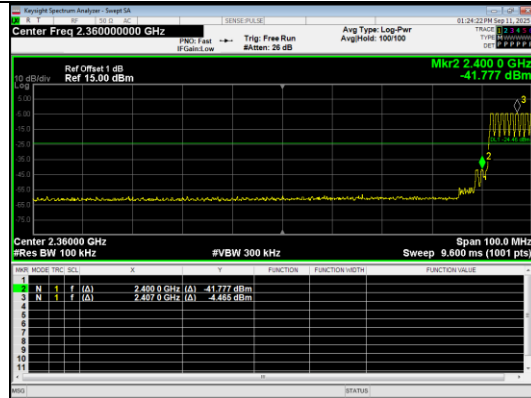


30.0 MHz - 25000.0 MHz
8DPSK_3-DH5_Channel 39



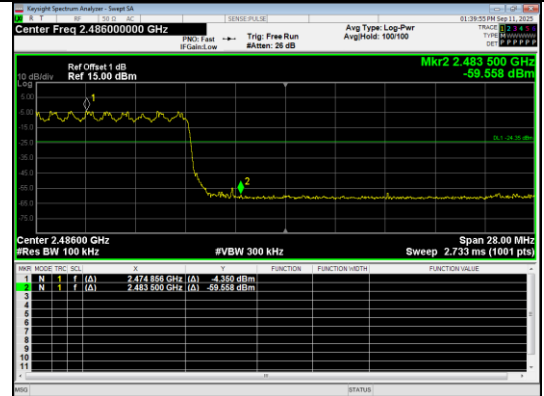
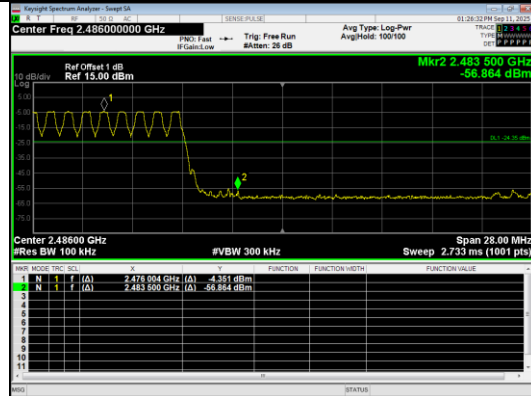
Out Of Band Emission 8DPSK_3-DH5_Channel 78

30.0 MHz - 25000.0 MHz 8DPSK_3-DH5_Channel 78



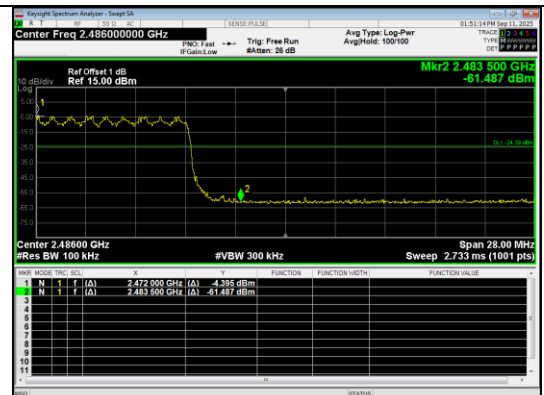
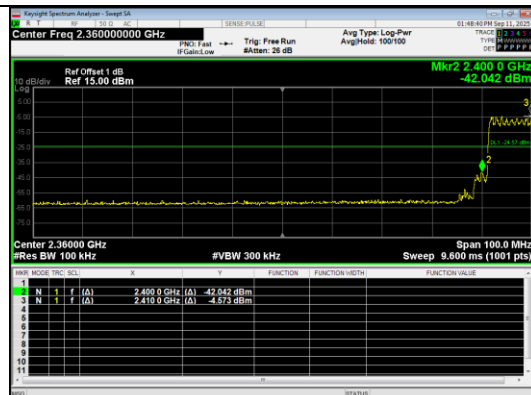
Out Of Band Emission(Left) GFSK_DH5_Channel Hopping

Out Of Band Emission(Left) $\pi/4$ DQPSK_2-DH5_Channel Hopping



Out Of Band Emission(Right) GFSK_DH5_Channel Hopping

Out Of Band Emission(Right) $\pi/4$ DQPSK_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 of Report *****