

Duty Cycle

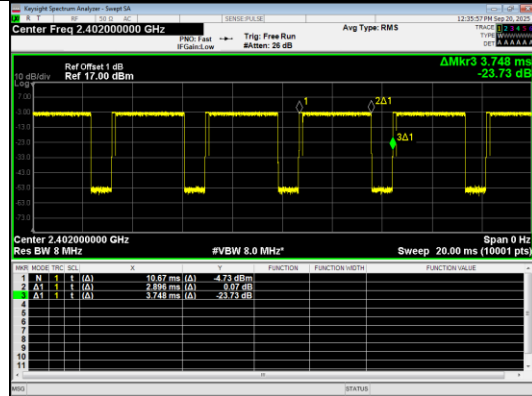
Test Result

Modulation	Packets	Channel	On Time (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle (linear)	Duty Cycle Factor (dB)	1/T
GFSK	DH5	0	2.908	3.748	77.59	0.7759	1.1019	0.3439
		39	2.908	3.748	77.59	0.7759	1.1019	0.3439
		78	2.910	3.748	77.64	0.7764	1.0991	0.3436
$\pi/4$ DQPSK	2-DH5	0	2.898	3.748	77.32	0.7732	1.1171	0.3451
		39	2.898	3.748	77.32	0.7732	1.1171	0.3451
		78	2.896	3.748	77.27	0.7727	1.1199	0.3453
8DPSK	3-DH5	0	2.896	3.748	77.27	0.7727	1.1199	0.3453
		39	2.896	3.748	77.27	0.7727	1.1199	0.3453
		78	2.896	3.748	77.27	0.7727	1.1199	0.3453

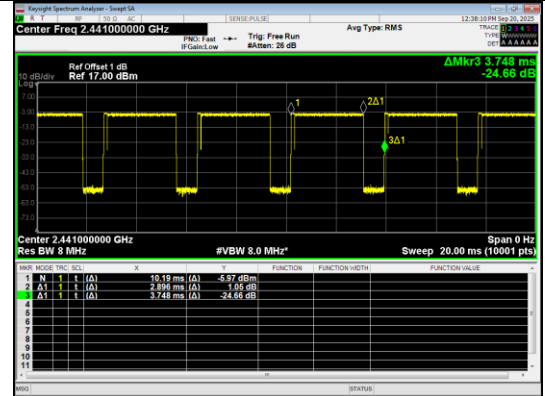
Test Graphs



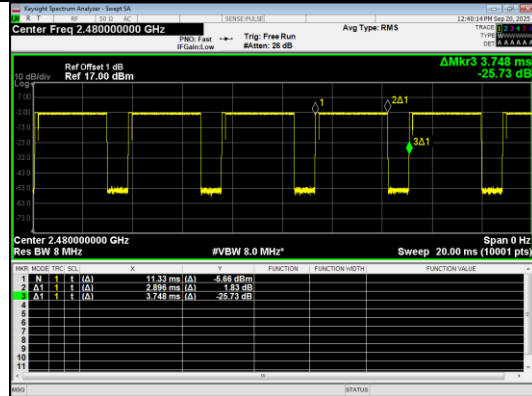
$\pi/4$ DQPSK(2-DH5)_Channel 39



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



8DPSK(3-DH5)_Channel 0



8DPSK(3-DH5)_Channel 39

8DPSK(3-DH5)_Channel 78

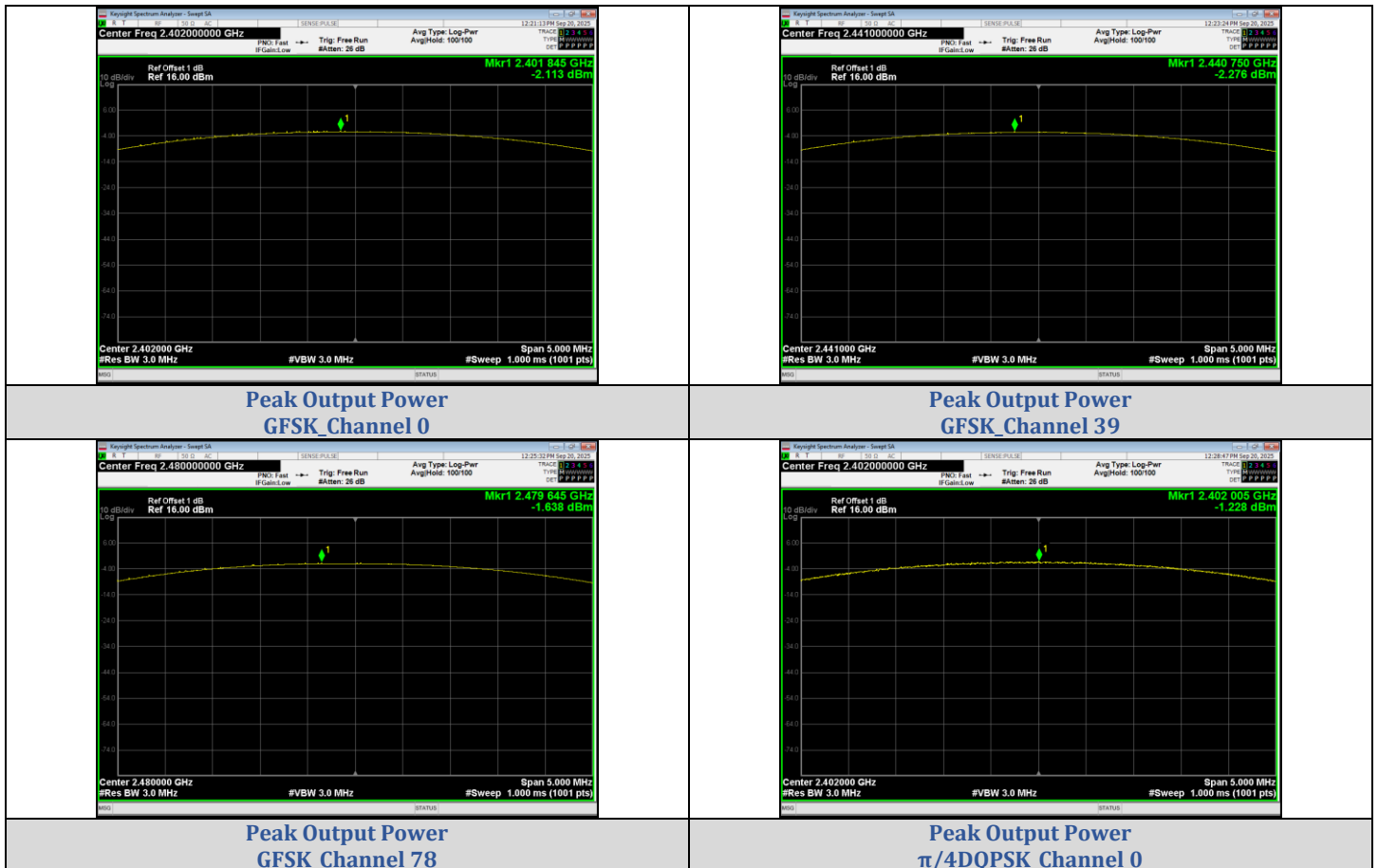


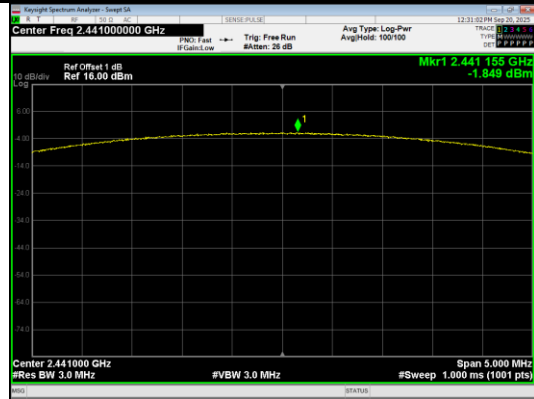
Conducted Output Power

Test Result

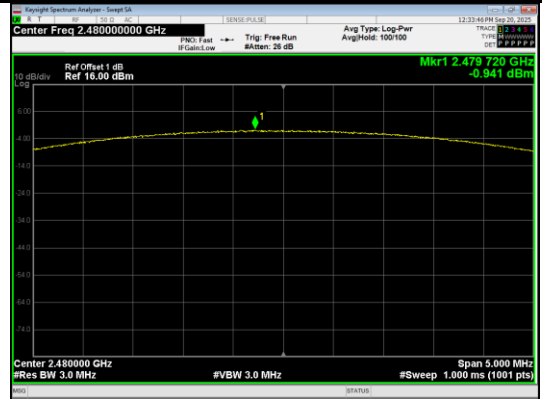
Modulation	Packet Type	Channel	Peak Output Power (dBm)	Limit (dBm)	Result
GFSK	DH5	0	-2.11	≤30	PASS
		39	-2.28		PASS
		78	-1.64		PASS
$\pi/4$ DQPSK	2-DH5	0	-1.23	≤20.97	PASS
		39	-1.85		PASS
		78	-0.94		PASS
8DPSK	3-DH5	0	-1.00		PASS
		39	-1.59		PASS
		78	-0.76		PASS

Test Graphs

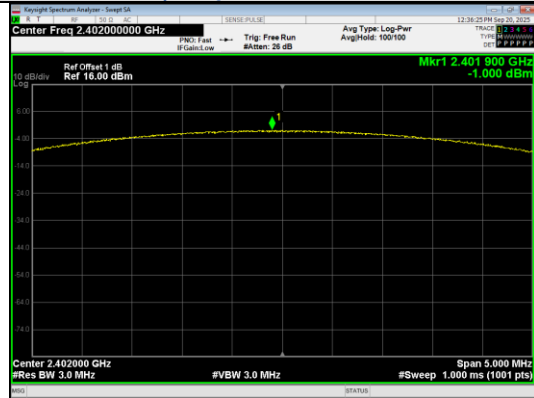




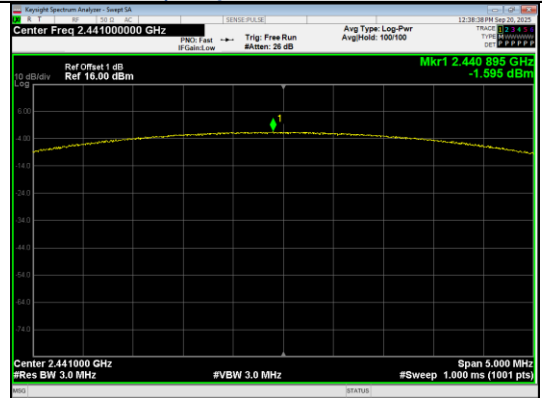
Peak Output Power
 $\pi/4$ DQPSK_Channel 39



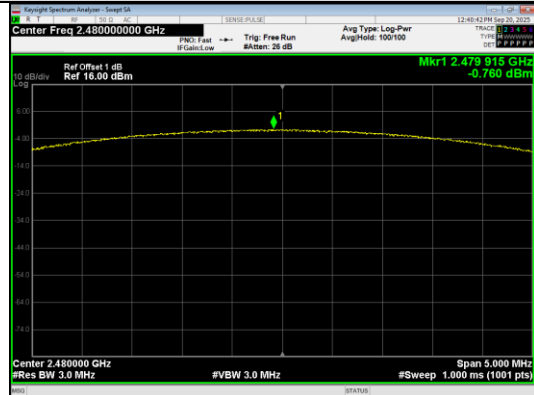
Peak Output Power
 $\pi/4$ DQPSK_Channel 78



Peak Output Power
8DPSK_Channel 0



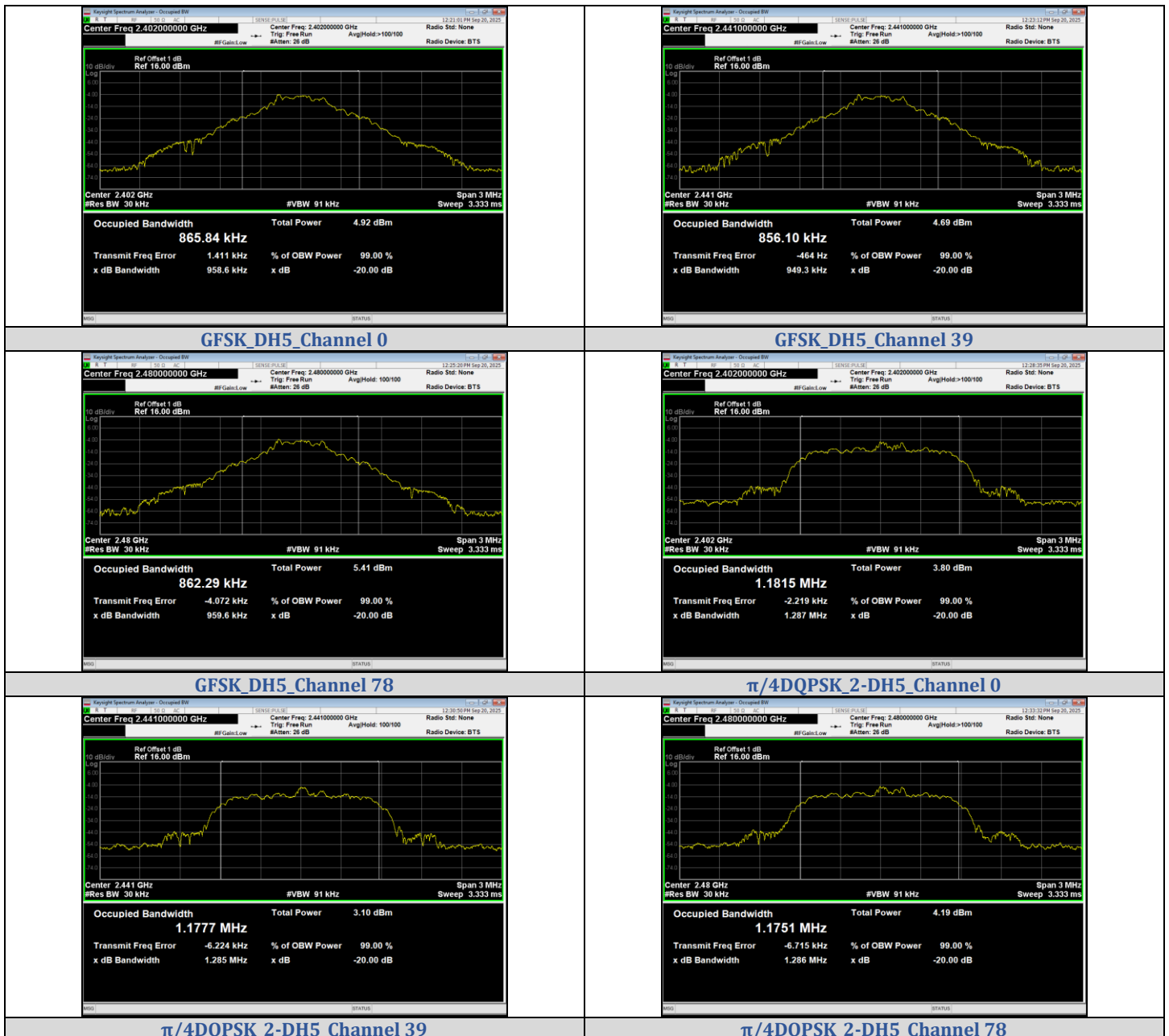
Peak Output Power
8DPSK_Channel 39

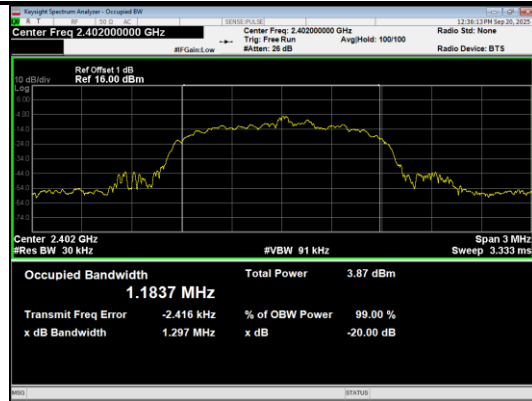


Peak Output Power
8DPSK_Channel 78

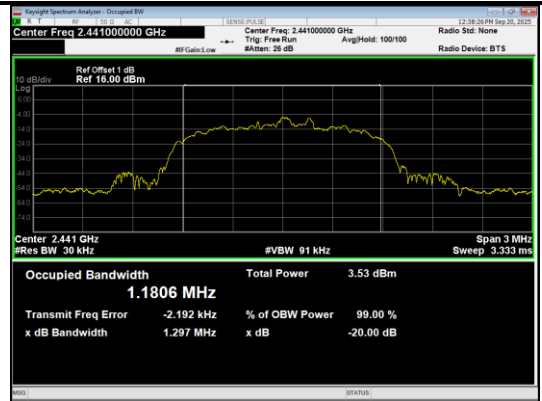
**20dB Bandwidth****Test Result**

Modulation	Channel	Center Frequency (MHz)	20 dB Bandwidth (MHz)
GFSK	0	2402 MHz	0.9600
	39	2441 MHz	0.9500
	78	2480 MHz	0.9600
$\pi/4$ DQPSK	0	2402 MHz	1.290
	39	2441 MHz	1.280
	78	2480 MHz	1.290
8DPSK	0	2402 MHz	1.300
	39	2441 MHz	1.300
	78	2480 MHz	1.300

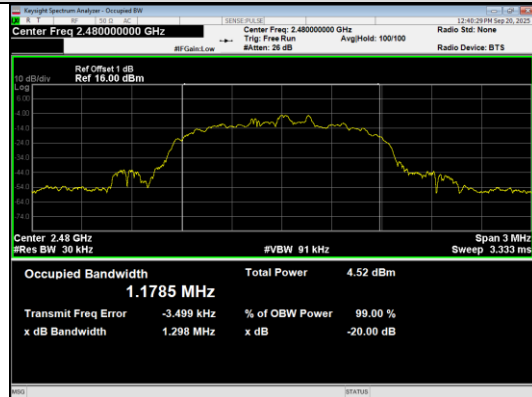
Test Graphs



8DPSK_3-DH5_Channel 0



8DPSK_3-DH5_Channel 39



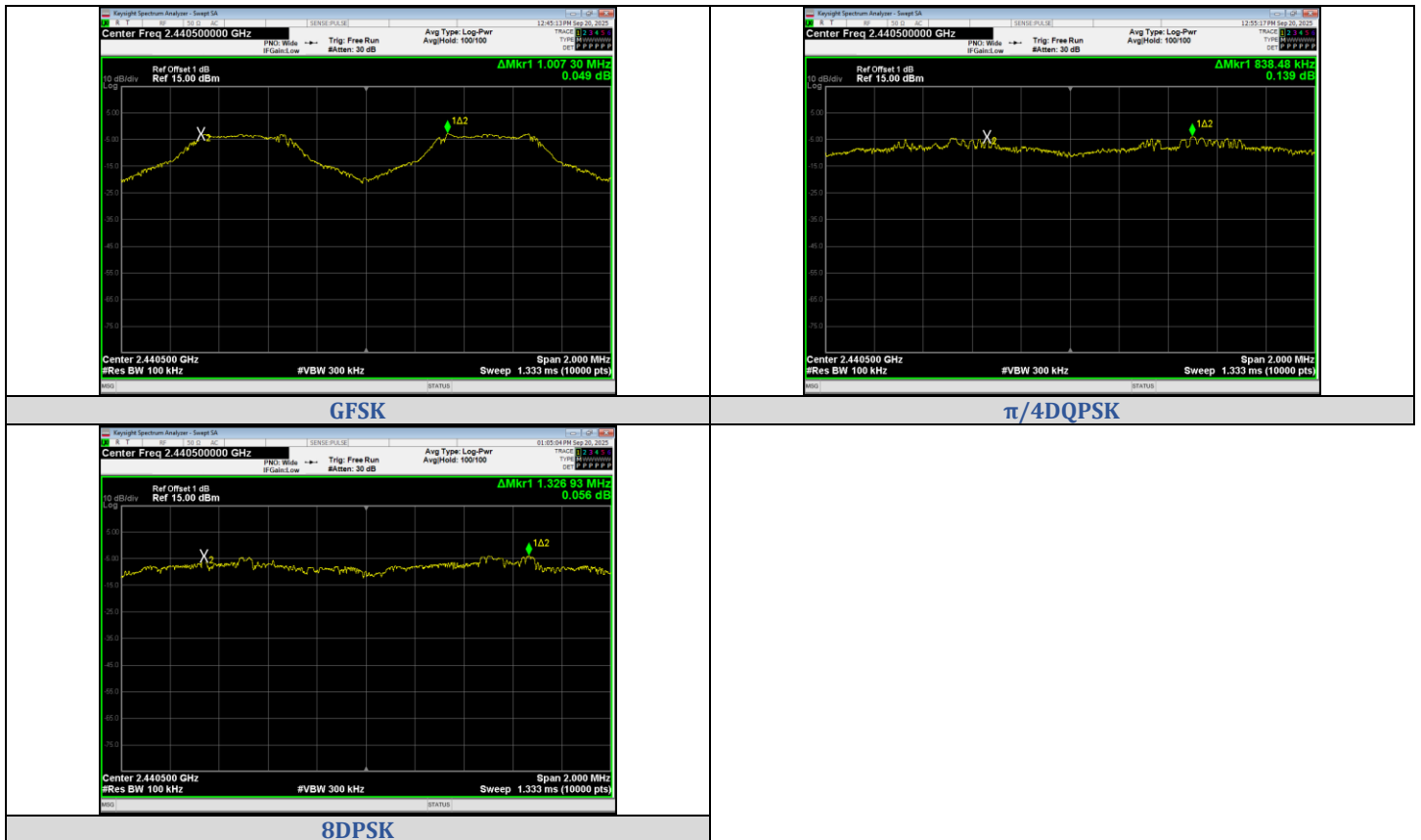
8DPSK_3-DH5_Channel 78

Carrier Frequencies Separation

Test Result

Modulation	Packet	Left Center frequency (MHz)	Right Center frequency (MHz)	Hopping Frequency Separation (MHz)	Limit (MHz)	Result
GFSK	DH5	2439.8254	2440.8327	1.0073	0.640	PASS
$\pi/4$ DQPSK	2-DH5	2440.1595	2440.9979	0.8385	0.860	PASS
8DPSK	3-DH5	2439.8372	2441.1642	1.3269	0.867	PASS

Test Graphs



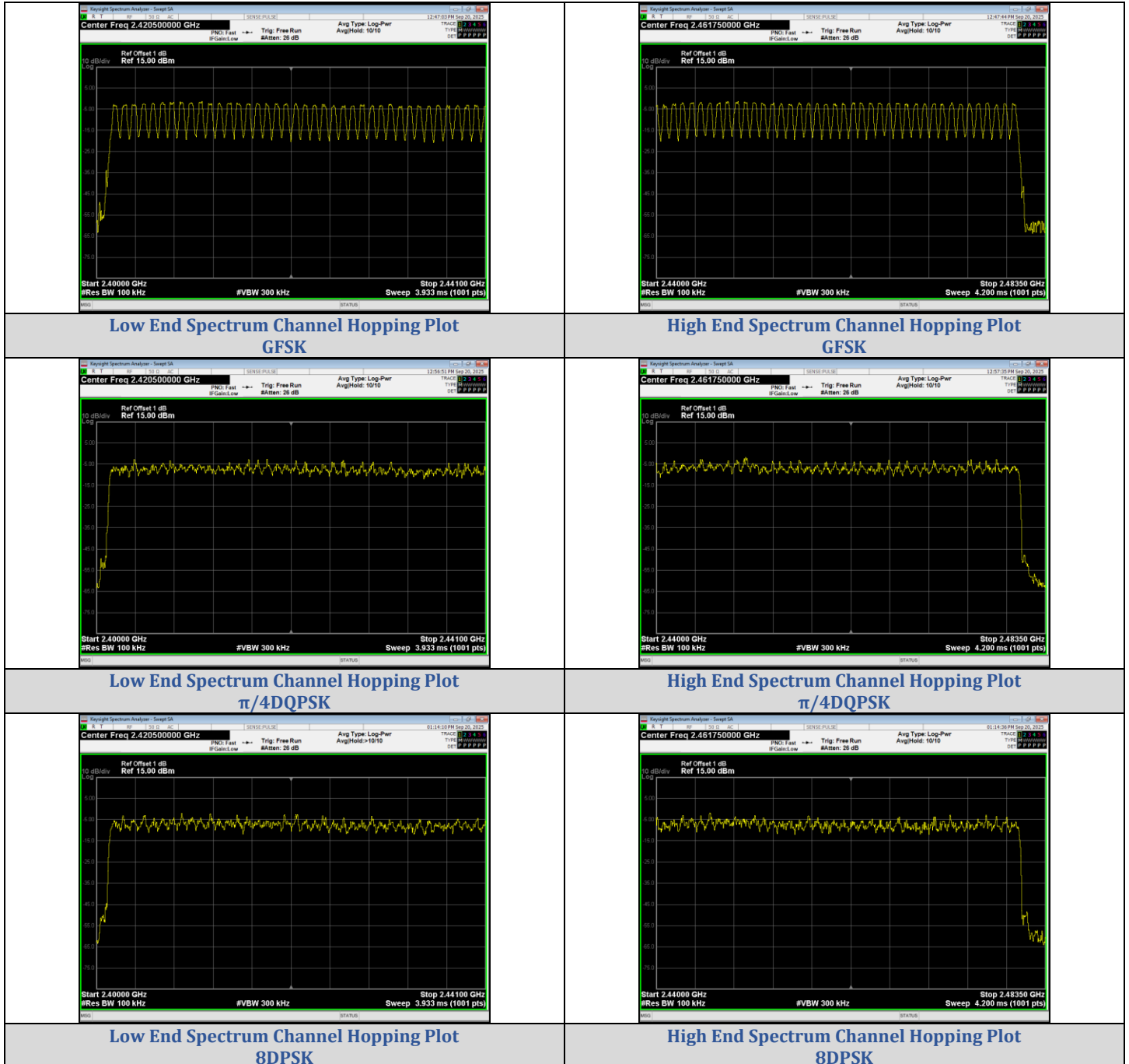


Number Of Hopping Channel

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

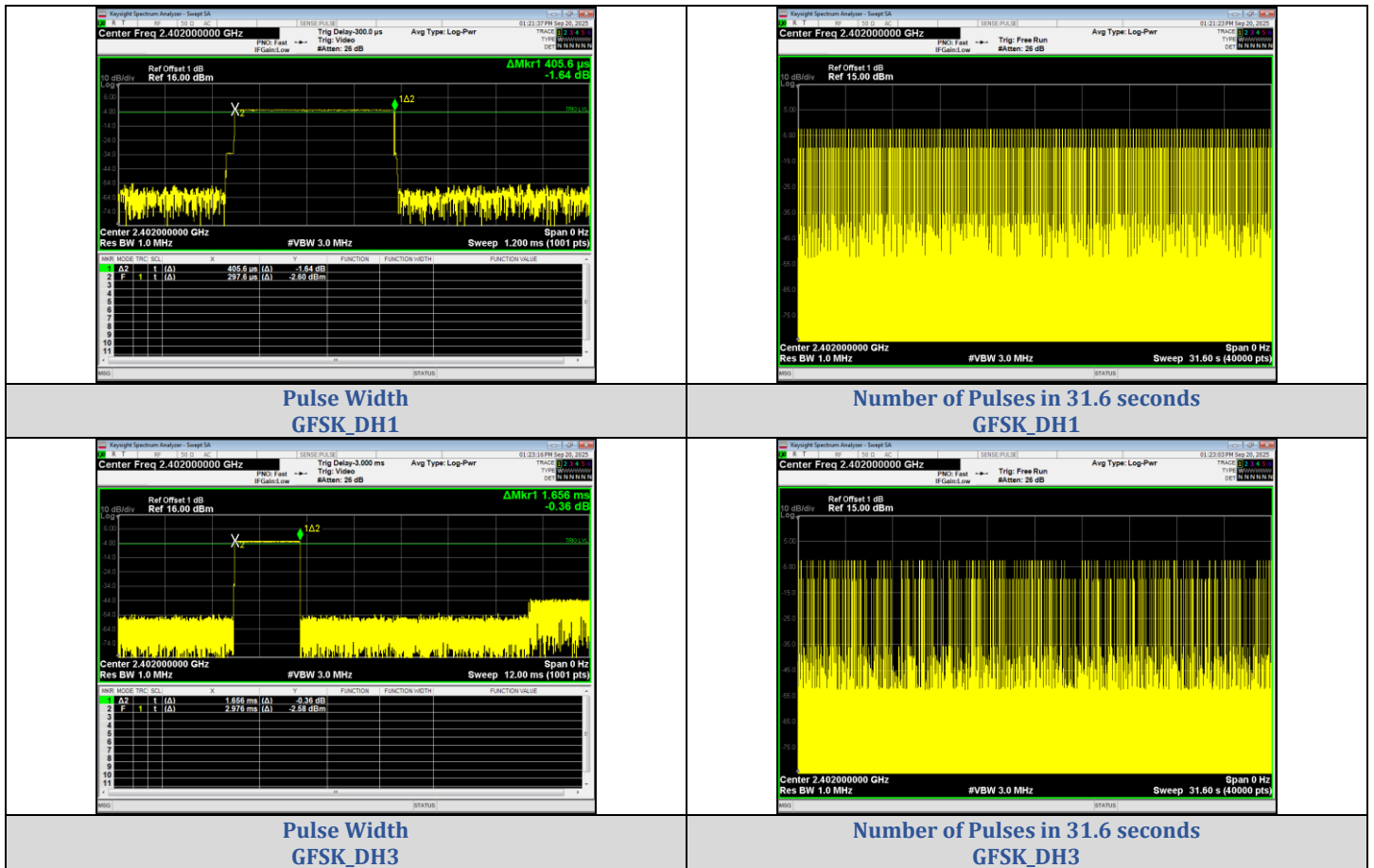


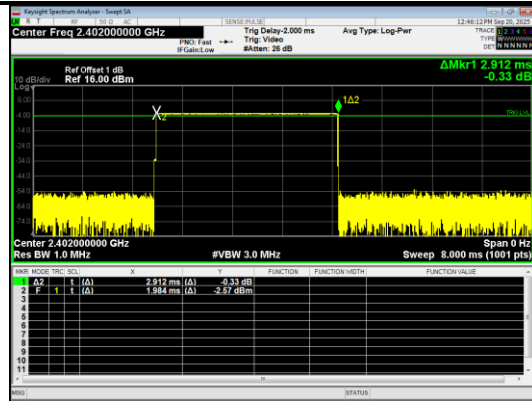
Dwell Time

Test Result

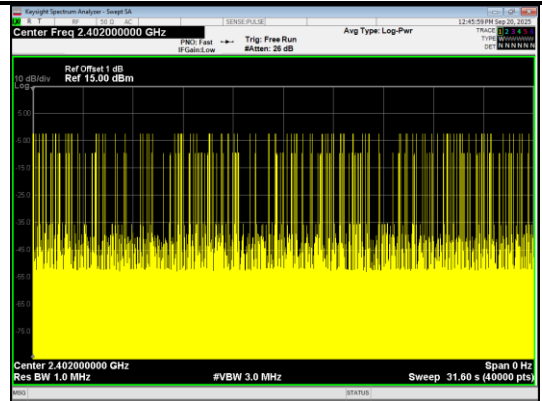
Modulation	Packet	Channel	Pulse Width (ms)	Number of Pulses in 31.6 seconds	Dwell Time (ms)	Limit (ms)	Result
GFSK	DH1	Hopping	0.4056	318	128.98	< 400	PASS
	DH3		1.656	166	274.9		PASS
	DH5		2.912	107	311.58		PASS
$\pi/4$ DQPSK	2-DH1		0.3972	318	126.31		PASS
	2-DH3		1.632	155	252.96		PASS
	2-DH5		2.896	106	306.98		PASS
8DPSK	3-DH1		0.3960	317	125.53		PASS
	3-DH3		1.632	160	261.12		PASS
	3-DH5		2.896	118	341.73		PASS

Test Graphs

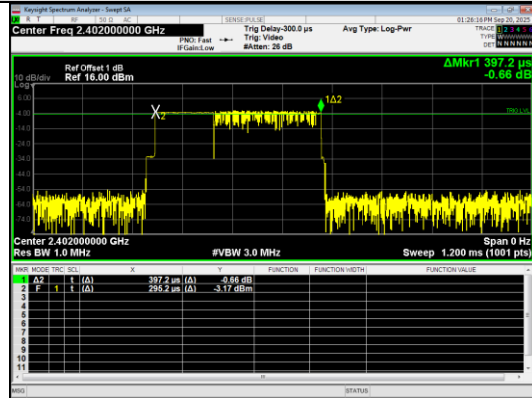




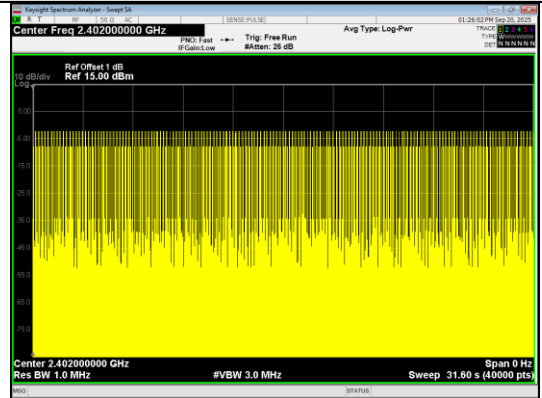
Pulse Width
GFSK_DH5



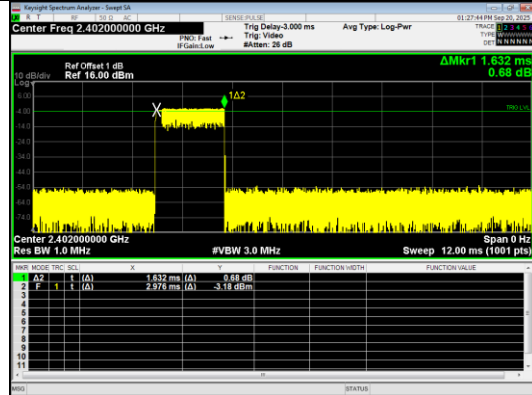
Number of Pulses in 31.6 seconds
GFSK_DH5



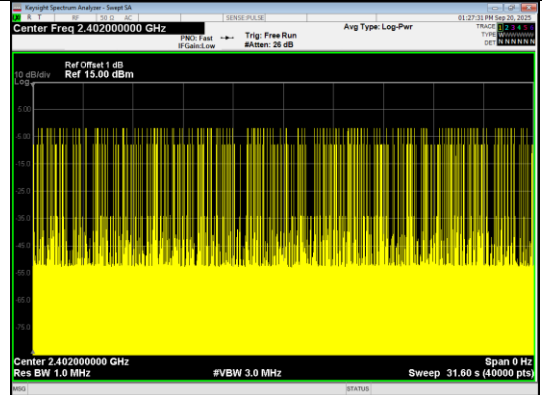
Pulse Width
 $\pi/4$ DQPSK_2-DH1



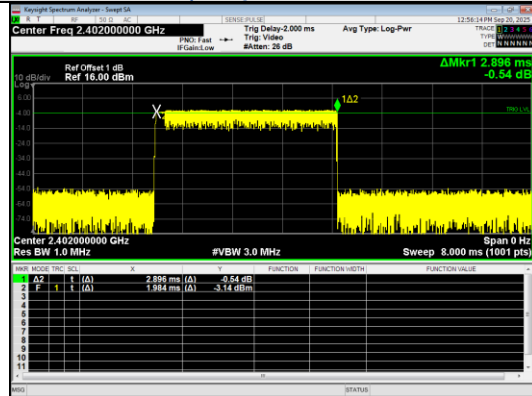
Number of Pulses in 31.6 seconds
 $\pi/4$ DQPSK_2-DH1



Pulse Width
 $\pi/4$ DQPSK_2-DH3



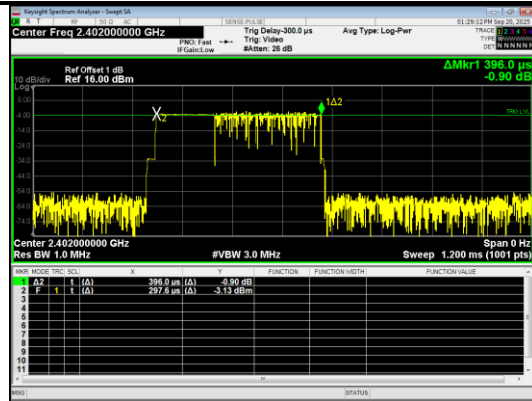
Number of Pulses in 31.6 seconds
 $\pi/4$ DQPSK_2-DH3



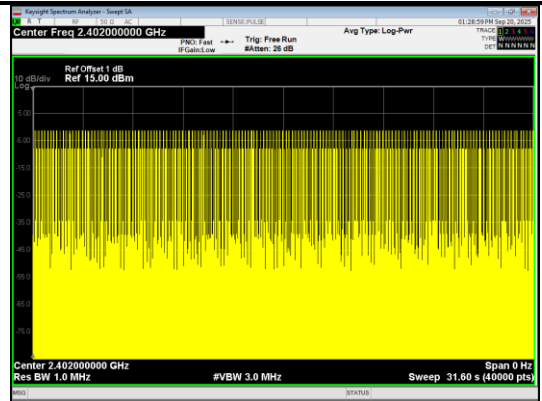
Pulse Width
 $\pi/4$ DQPSK_2-DH5



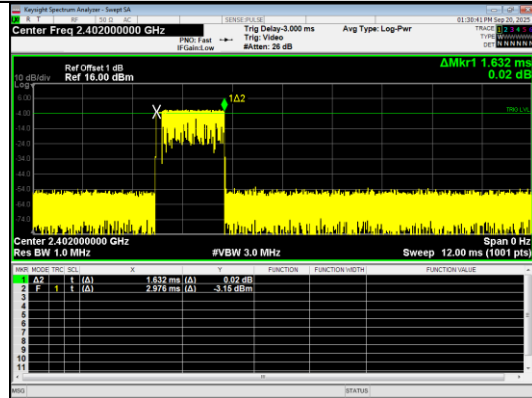
Number of Pulses in 31.6 seconds
 $\pi/4$ DQPSK_2-DH5



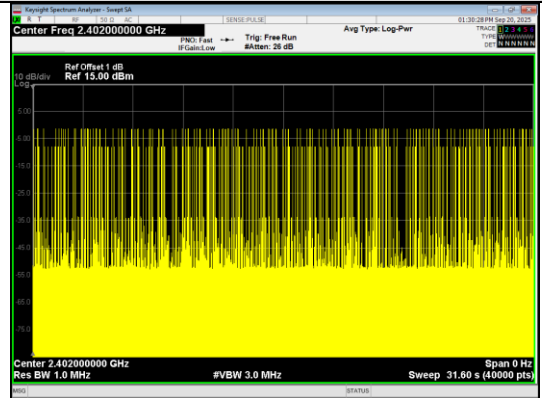
**Pulse Width
8DPSK_3-DH1**



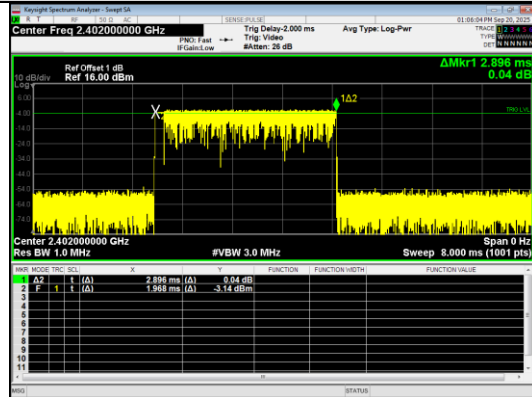
**Number of Pulses in 31.6 seconds
8DPSK_3-DH1**



**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

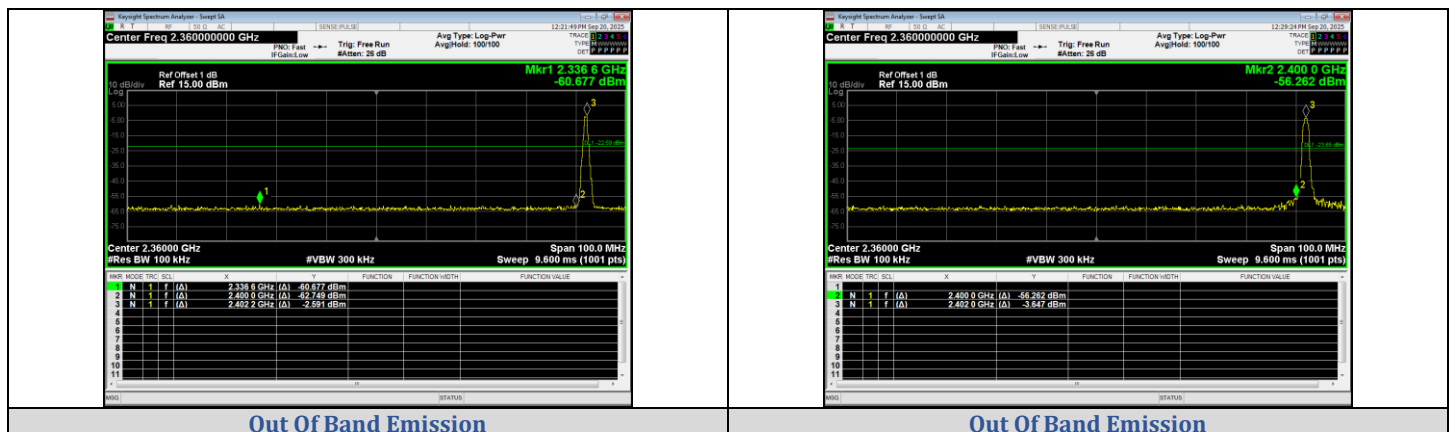
Non-Hopping

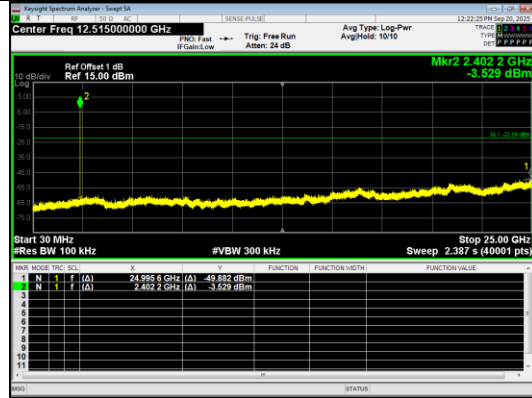
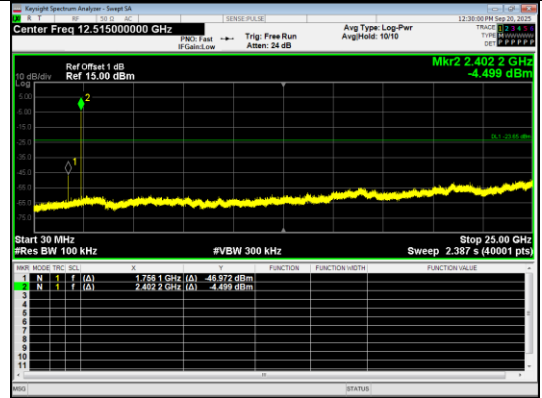
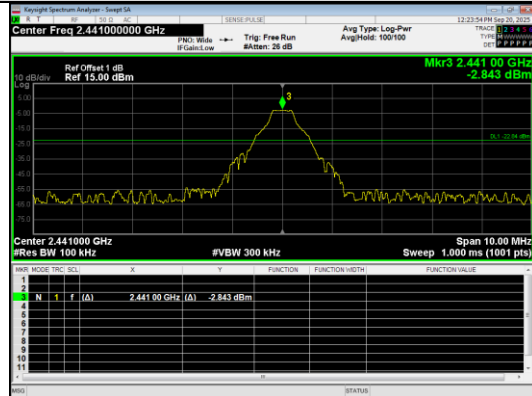
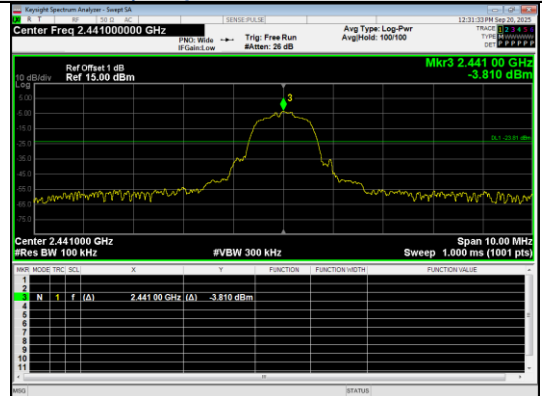
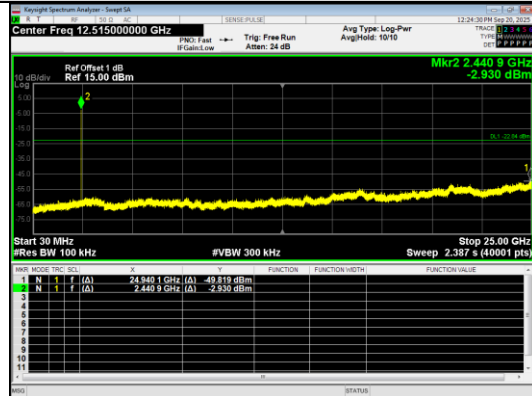
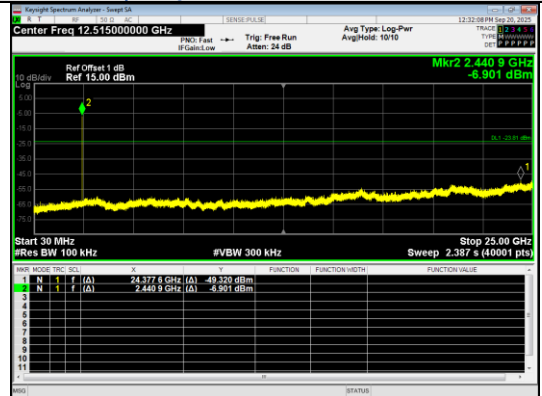
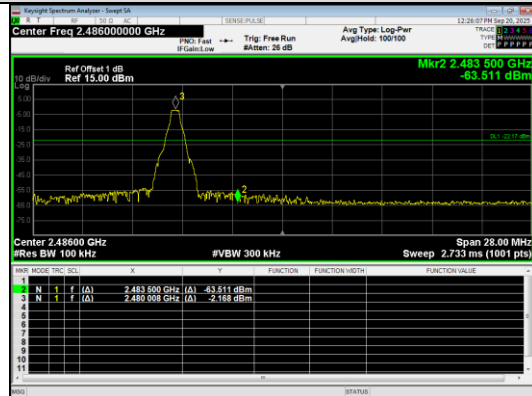
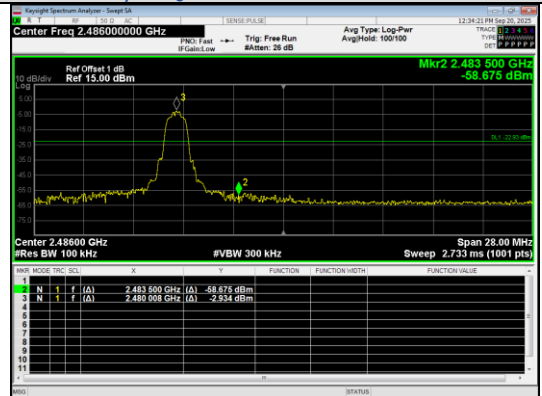
Modulation	Packet	Channel	OOB Emission Frequency (MHz)	OOB Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result
GFSK	DH5	0	2336.60	-60.677	-22.59	-38.087	PASS
			2400.00	-62.750	-22.59	-40.160	PASS
			24995.6	-49.882	-22.59	-27.292	PASS
		39	24940.1	-49.819	-22.84	-26.979	PASS
		78	2483.50	-63.510	-22.17	-41.340	PASS
			24398.2	-49.259	-22.17	-27.089	PASS
$\pi/4$ DQPSK	2-DH5	0	1756.05	-46.972	-23.65	-23.322	PASS
			2400.00	-56.260	-23.65	-32.610	PASS
		39	24377.6	-49.319	-23.81	-25.509	PASS
		78	2483.50	-58.670	-22.93	-35.740	PASS
			24446.3	-49.960	-22.93	-27.030	PASS
8DPSK	3-DH5	0	2400.00	-55.100	-23.36	-31.740	PASS
			24317.7	-49.744	-23.36	-26.384	PASS
		39	24912.0	-48.592	-23.81	-24.782	PASS
		78	2483.50	-60.600	-22.93	-37.670	PASS
			24998.1	-48.608	-22.93	-25.678	PASS

Hopping

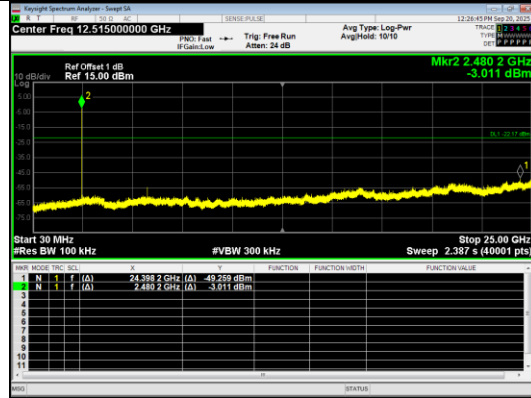
Modulation	Packet	Channel	OOB Emission Frequency (MHz)	OOB Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result
GFSK	DH5	Hopping	2398.60	-58.702	-21.56	-37.142	PASS
			2400.00	-61.380	-21.56	-39.820	PASS
			2483.50	-61.680	-21.96	-39.720	PASS
π/4DQPSK	2-DH5		2395.10	-50.351	-22.11	-28.241	PASS
			2400.00	-56.280	-22.11	-34.170	PASS
			2483.50	-62.740	-22.87	-39.870	PASS
8DPSK	3-DH5		2398.30	-57.763	-22.39	-35.373	PASS
			2400.00	-61.630	-22.39	-39.240	PASS
			2483.50	-58.820	-22.76	-36.060	PASS

Test Graphs



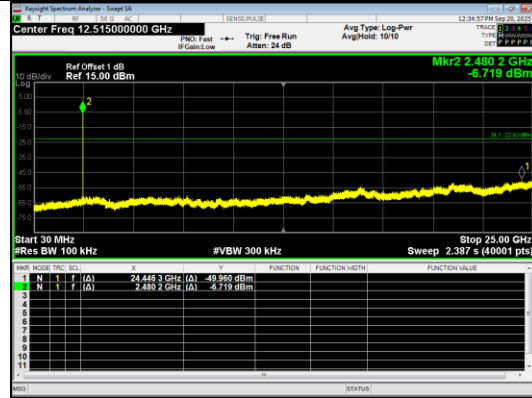
GFSK_DH5_Channel 0

 $\pi/4$ 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
Out Of Band Emission

GFSK_DH5_Channel 78

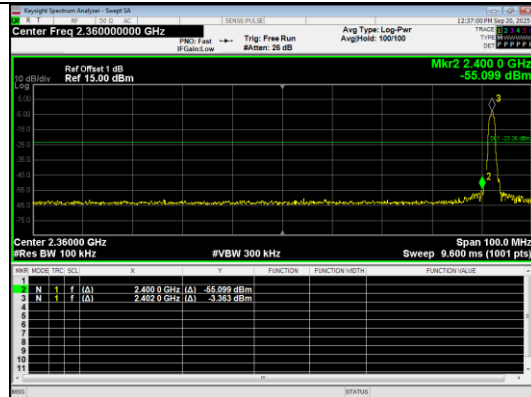


30.0 MHz - 25000.0 MHz
GFSK_DH5_Channel 78

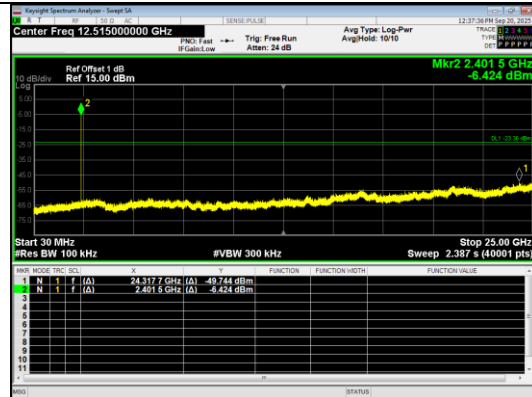
$\pi/4$ DQPSK 2-DH5_Channel 78



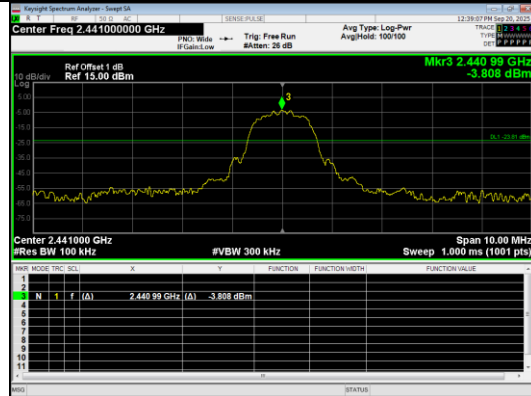
30.0 MHz - 25000.0 MHz
 $\pi/4$ DQPSK 2-DH5_Channel 78



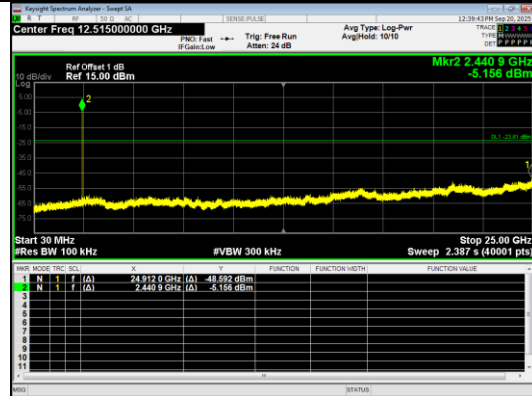
Out Of Band Emission
8DPSK_3-DH5_Channel 0



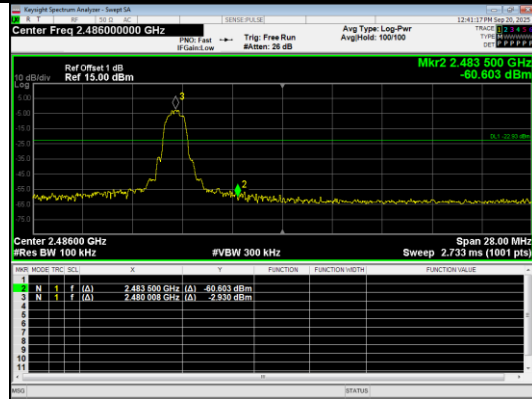
30.0 MHz - 25000.0 MHz
8DPSK_3-DH5_Channel 0



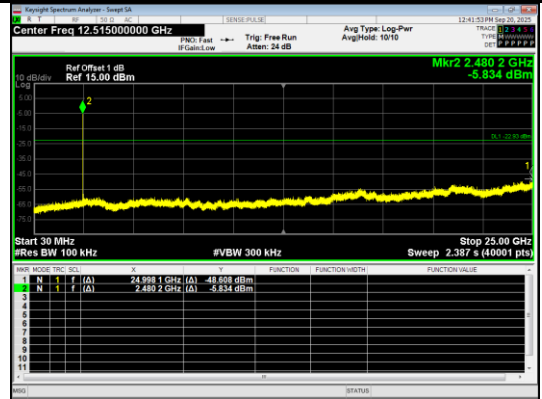
Out Of Band Emission
8DPSK_3-DH5_Channel 39



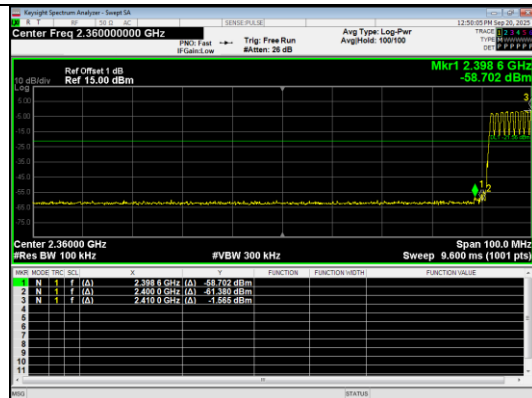
30.0 MHz - 25000.0 MHz
8DPSK_3-DH5_Channel 39



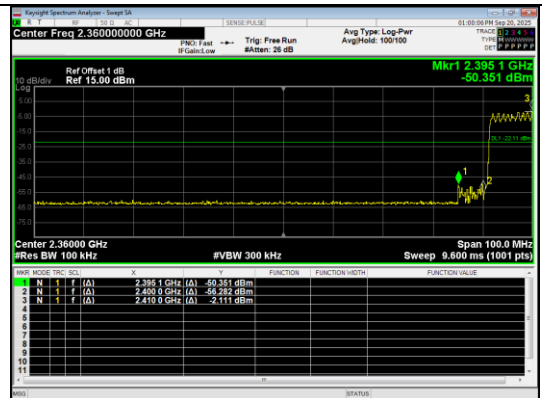
**Out Of Band Emission
8DPSK_3-DH5_Channel 78**



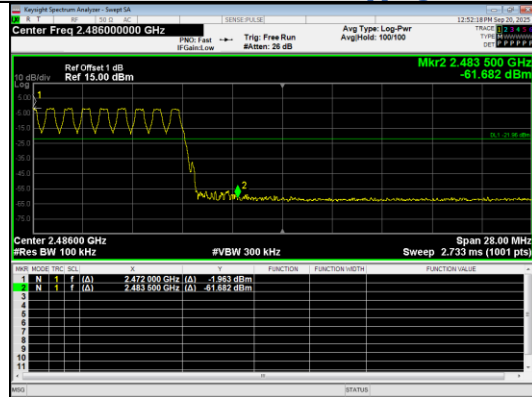
**30.0 MHz - 25000.0 MHz
8DPSK_3-DH5_Channel 78**



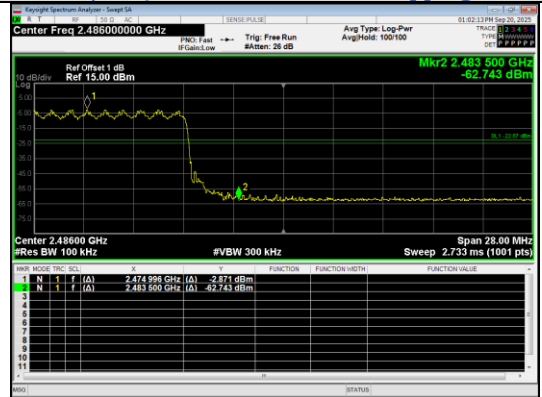
**Out Of Band Emission(Left)
GFSK_DH5_Channel Hopping**



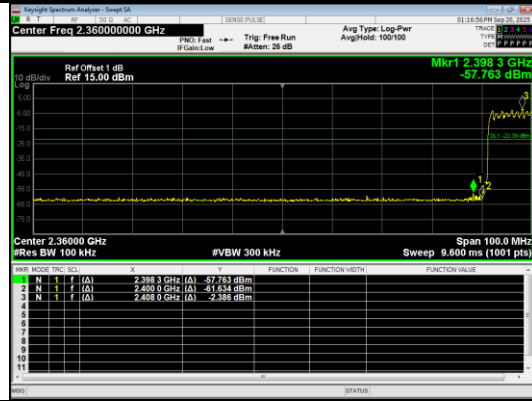
**Out Of Band Emission(Left)
 $\pi/4$ DQPSK_2-DH5_Channel Hopping**



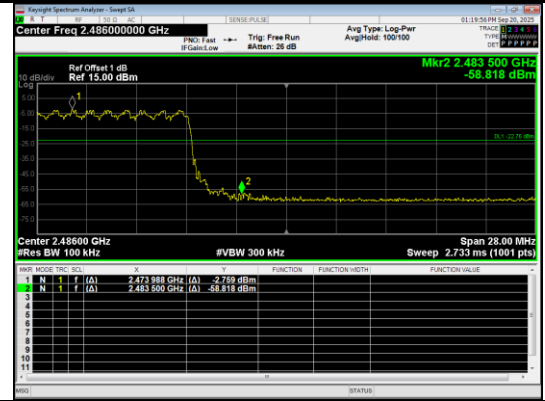
**Out Of Band Emission(Right)
GFSK_DH5_Channel Hopping**



**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