

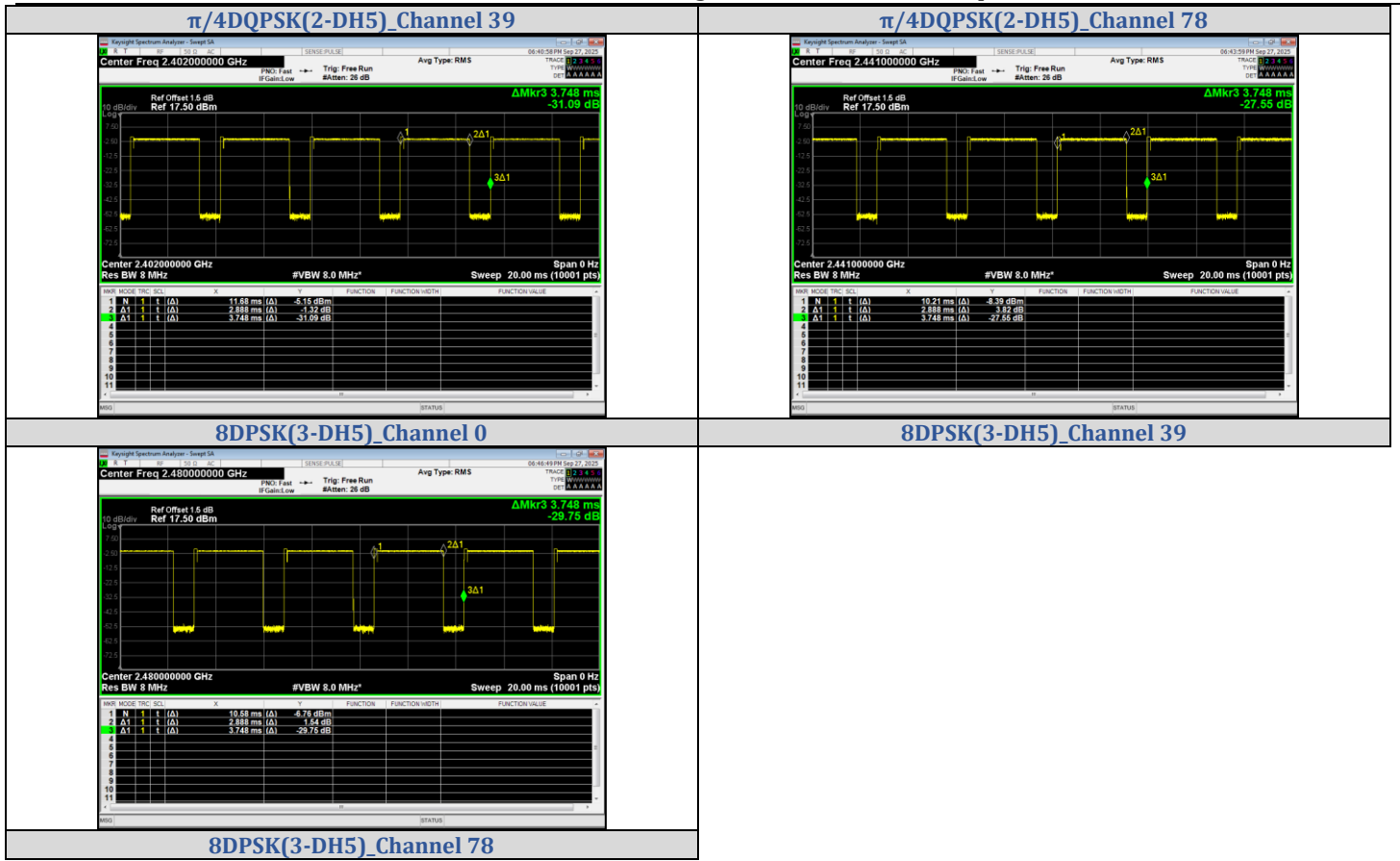
Duty Cycle

Test Result

Modulation	Packets	Channel	On Time (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle (linear)	Duty Cycle Factor (dB)	1/T
GFSK	DH5	0	2.878	3.748	76.79	0.7679	1.147	0.3475
		39	2.880	3.748	76.84	0.7684	1.1441	0.3472
		78	2.878	3.748	76.79	0.7679	1.147	0.3475
$\pi/4$ DQPSK	2-DH5	0	2.884	3.748	76.95	0.7695	1.1379	0.3467
		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
8DPSK	3-DH5	0	2.888	3.748	77.05	0.7705	1.1323	0.3463
		39	2.888	3.748	77.05	0.7705	1.1323	0.3463
		78	2.888	3.748	77.05	0.7705	1.1323	0.3463

Test Graphs





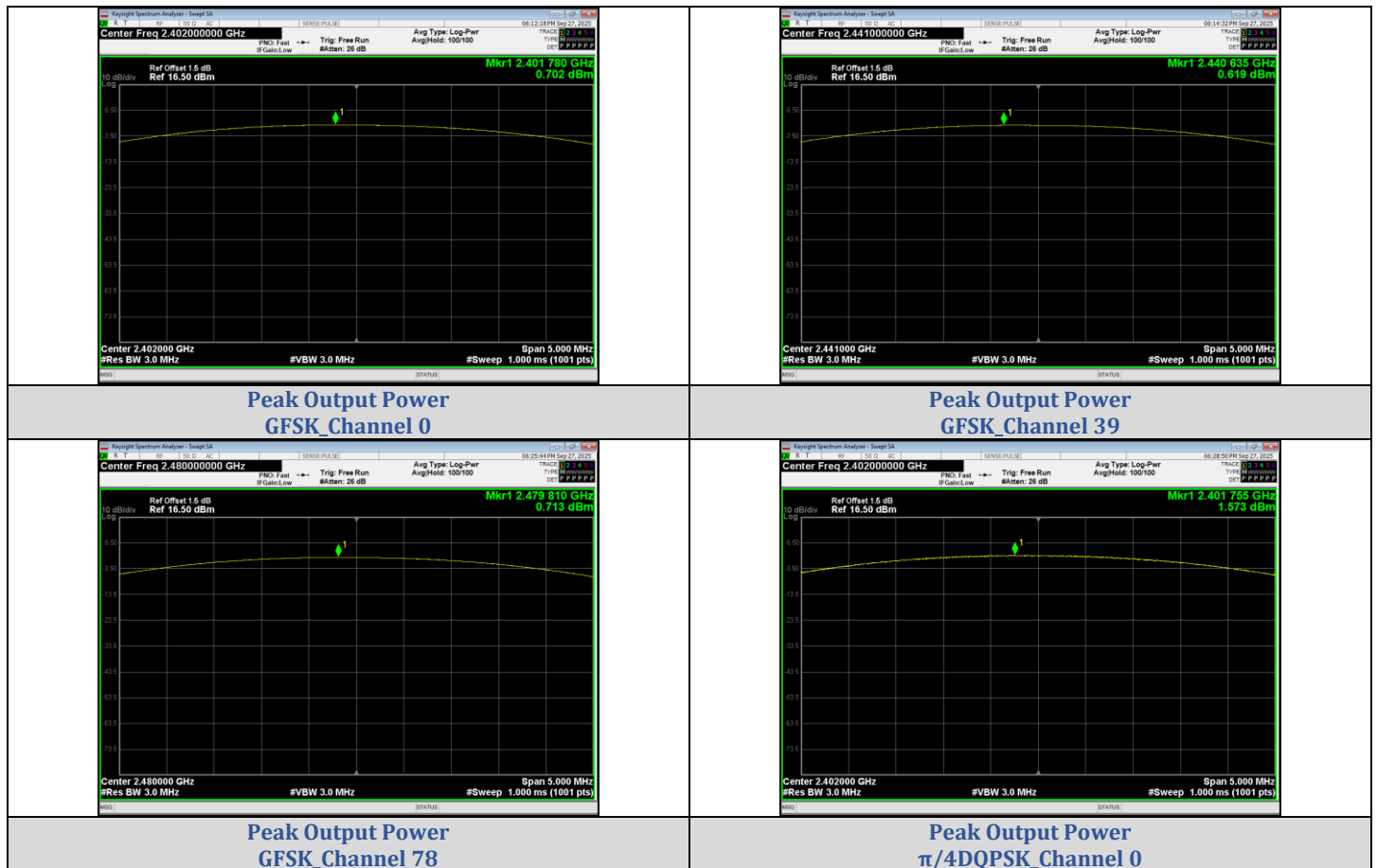


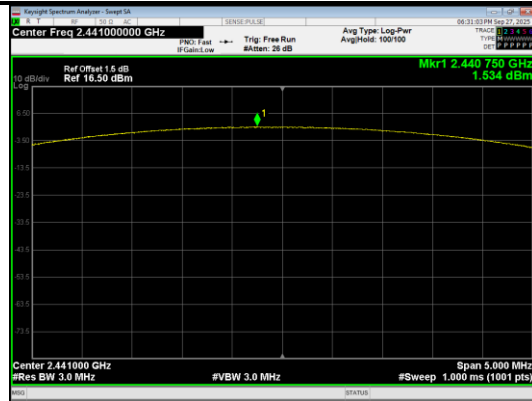
Conducted Output Power

Test Result

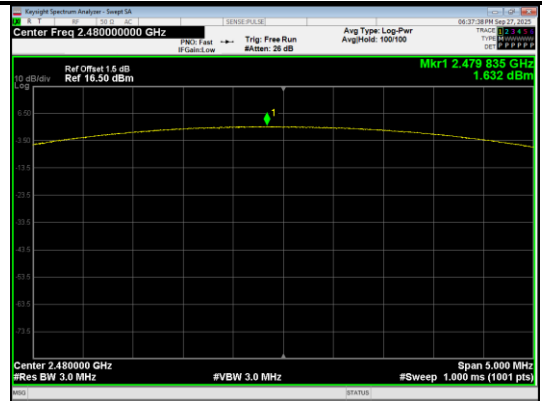
Modulation	Packet Type	Channel	Peak Output Power (dBm)	Limit (dBm)	Result
GFSK	DH5	0	0.70	≤30	PASS
		39	0.62		PASS
		78	0.71		PASS
$\pi/4$ DQPSK	2-DH5	0	1.57	≤20.97	PASS
		39	1.53		PASS
		78	1.63		PASS
8DPSK	3-DH5	0	1.96		PASS
		39	1.97		PASS
		78	2.06		PASS

Test Graphs

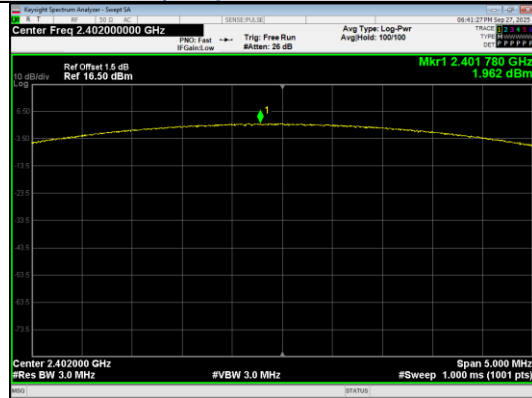




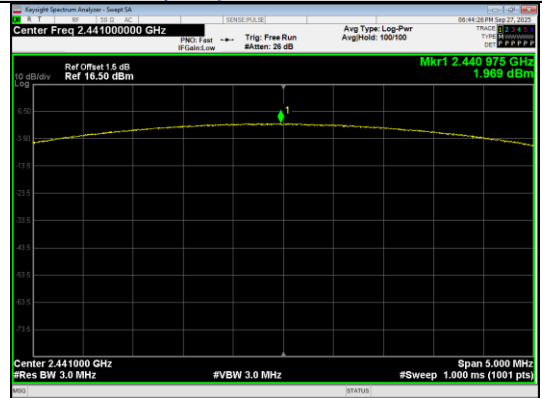
Peak Output Power
 $\pi/4$ DQPSK_Channel 39



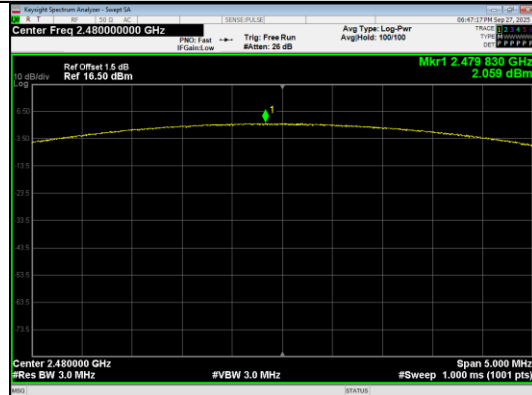
Peak Output Power
 $\pi/4$ DQPSK_Channel 78



Peak Output Power
8DPSK_Channel 0



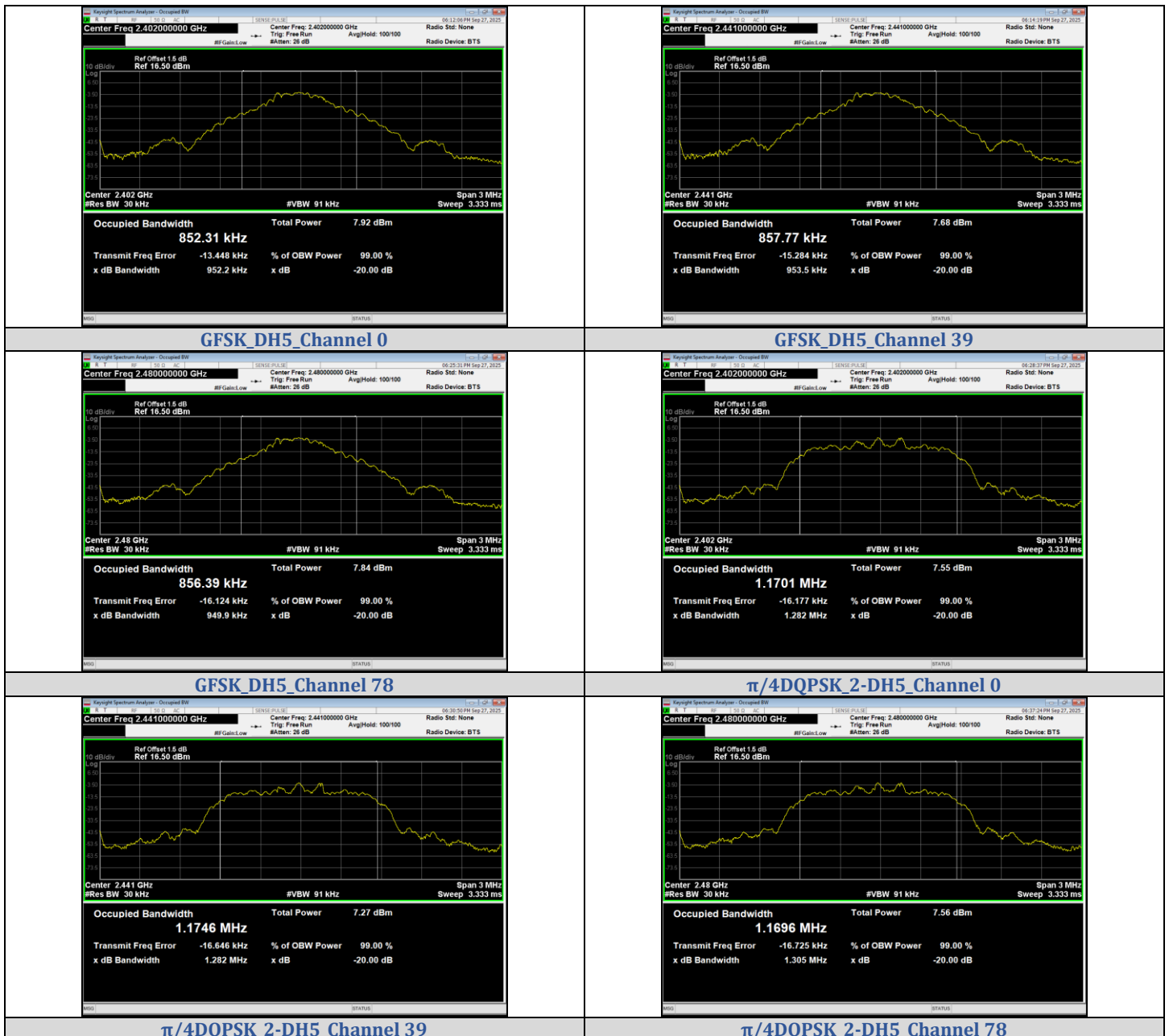
Peak Output Power
8DPSK_Channel 39

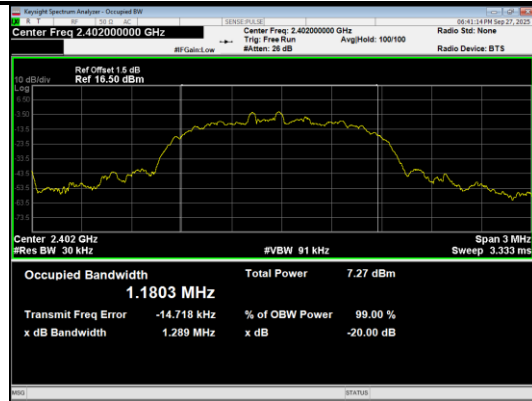


Peak Output Power
8DPSK_Channel 78

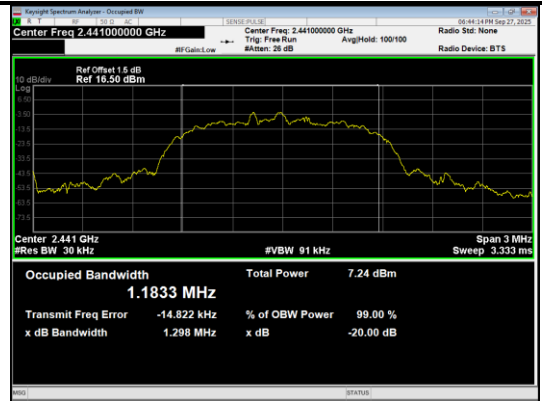
**20dB Bandwidth****Test Result**

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	1.280
	78	2480 MHz	1.300
8DPSK	0	2402 MHz	1.290
	39	2441 MHz	1.300
	78	2480 MHz	1.300

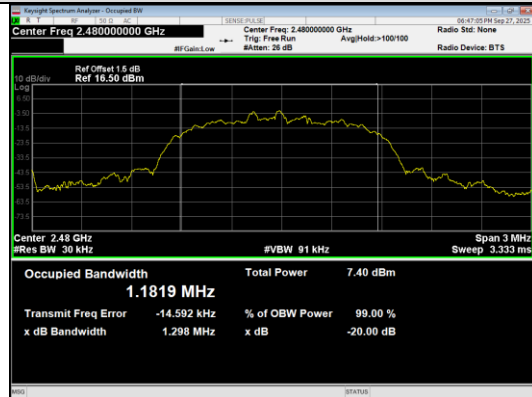
Test Graphs



8DPSK_3-DH5_Channel 0



8DPSK_3-DH5_Channel 39



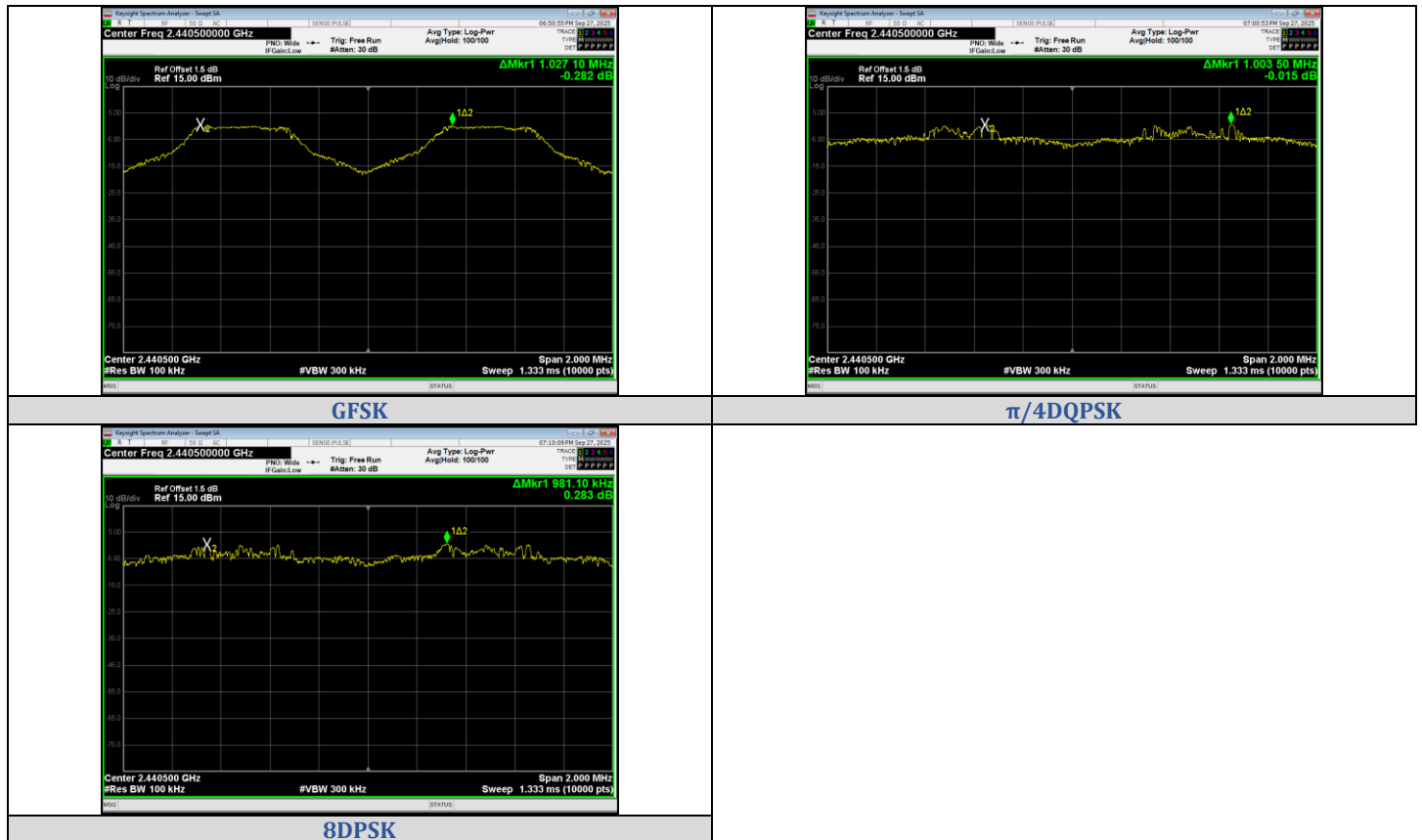
8DPSK_3-DH5_Channel 78

Carrier Frequencies Separation

Test Result

Modulation	Packet	Left Center frequency (MHz)	Right Center frequency (MHz)	Hopping Frequency Separation (MHz)	Limit (MHz)	Result
GFSK	DH5	2439.8164	2440.8435	1.0271	0.99	PASS
$\pi/4$ DQPSK	2-DH5	2440.1445	2441.148	1.0035	0.99	PASS
8DPSK	3-DH5	2439.8416	2440.8227	0.9811	0.99	PASS

Test Graphs

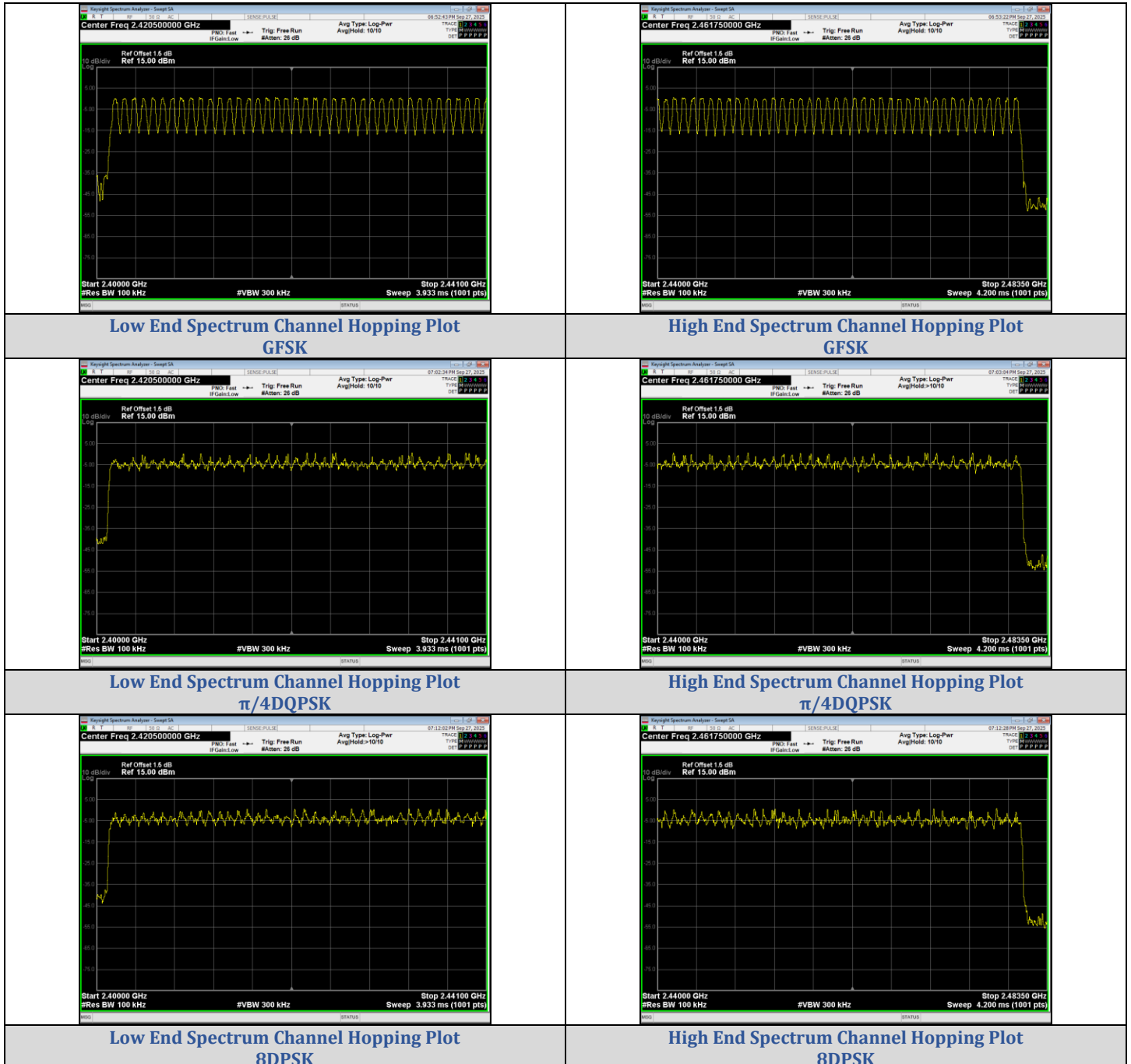


Number Of Hopping Channel

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

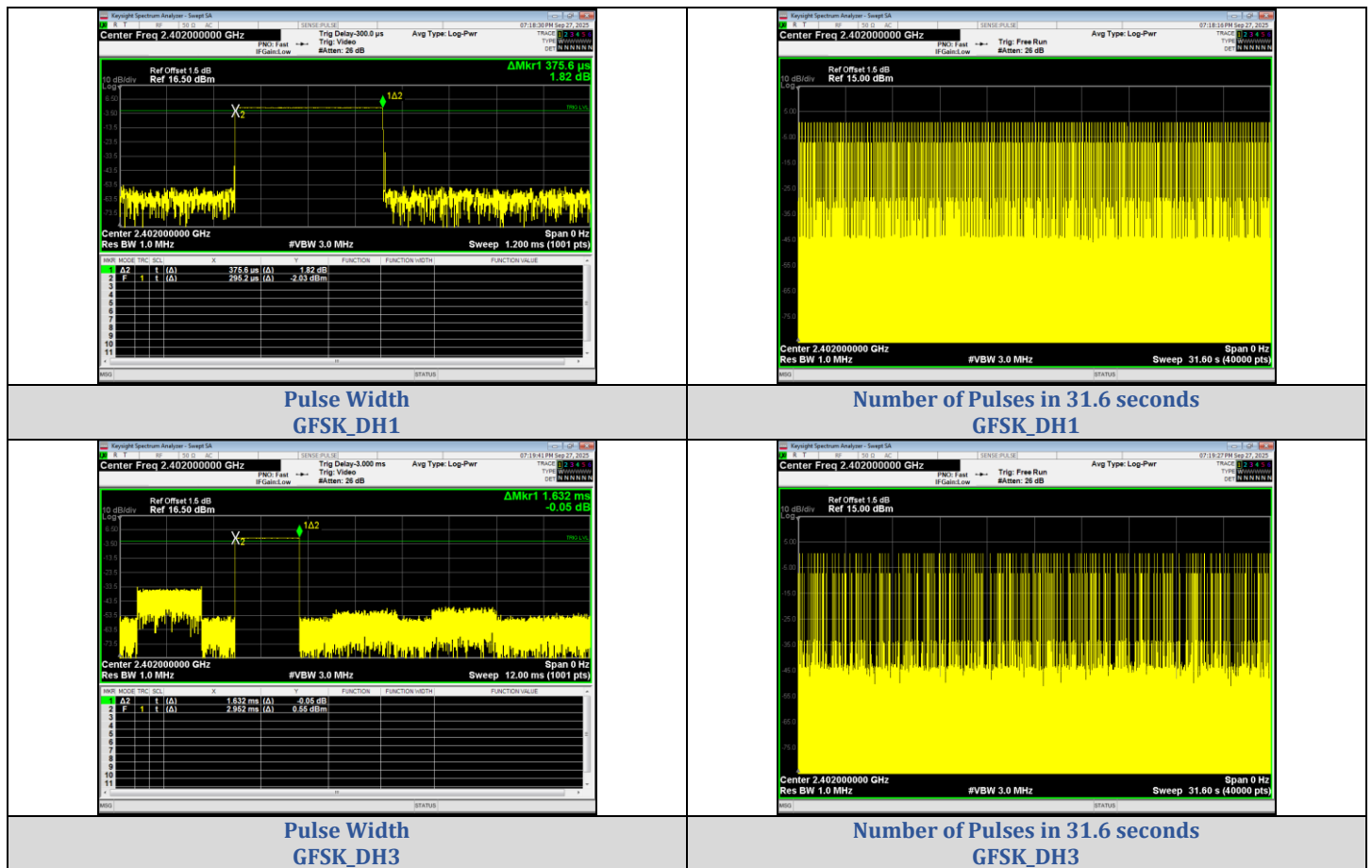


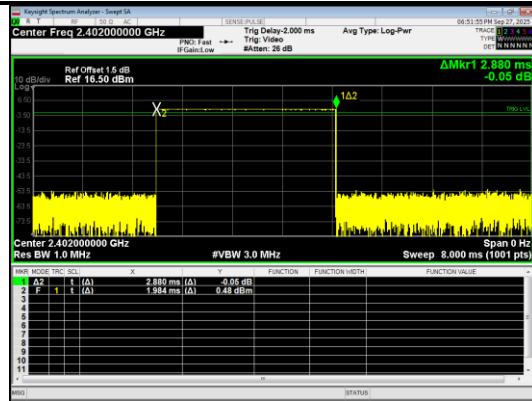
Dwell Time

Test Result

Modulation	Packet	Channel	Pulse Width (ms)	Number of Pulses in 31.6 seconds	Dwell Time (ms)	Limit (ms)	Result
GFSK	DH1	Hopping	0.3756	313	117.56	< 400	PASS
	DH3		1.632	167	272.54		PASS
	DH5		2.880	107	308.16		PASS
$\pi/4$ DQPSK	2-DH1		0.3852	318	122.49		PASS
	2-DH3		1.632	163	266.02		PASS
	2-DH5		2.880	94	270.72		PASS
8DPSK	3-DH1		0.3852	316	121.72		PASS
	3-DH3		1.632	159	259.49		PASS
	3-DH5		2.880	107	308.16		PASS

Test Graphs

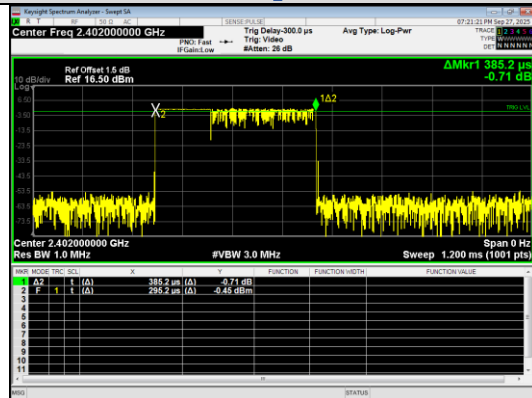




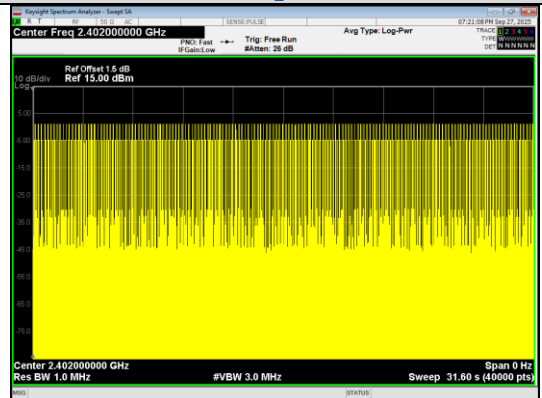
Pulse Width
GFSK_DH5



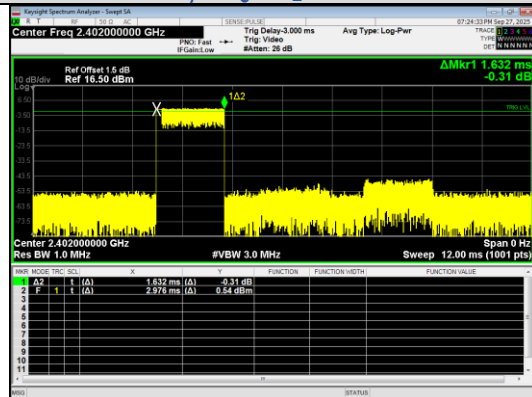
Number of Pulses in 31.6 seconds
GFSK_DH5



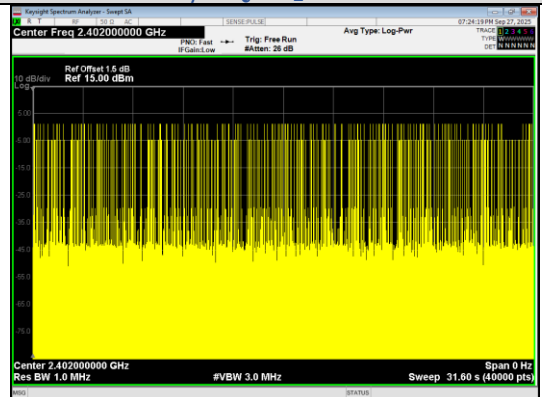
Pulse Width
 $\pi/4$ DQPSK_2-DH1



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



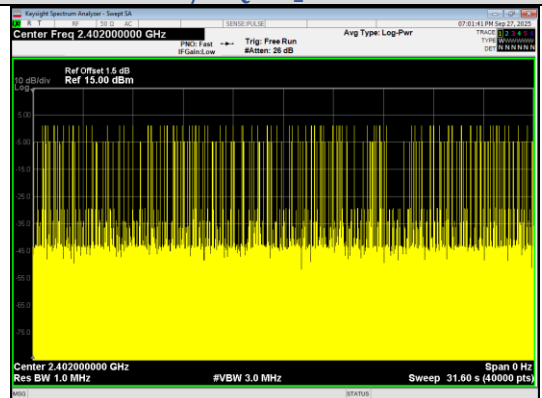
Pulse Width
 $\pi/4$ DQPSK_2-DH3



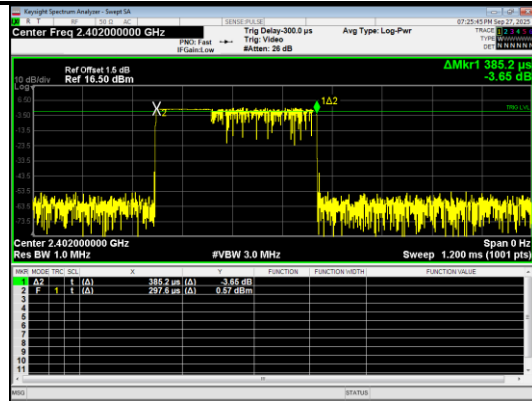
Number of Pulses in 31.6 seconds
 $\pi/4$ DQPSK_2-DH3



Pulse Width
 $\pi/4$ DQPSK_2-DH5



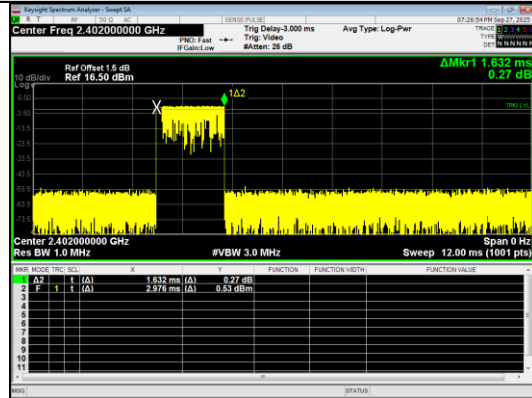
Number of Pulses in 31.6 seconds
 $\pi/4$ DQPSK_2-DH5



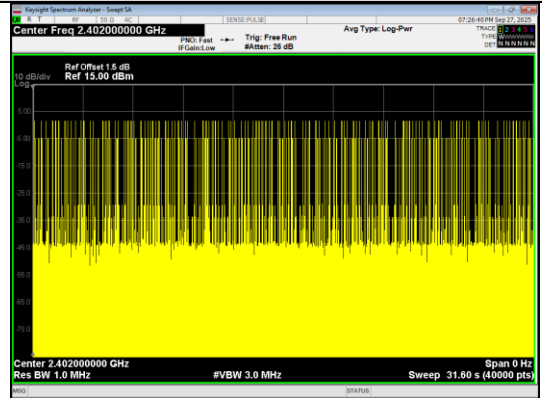
**Pulse Width
8DPSK_3-DH1**



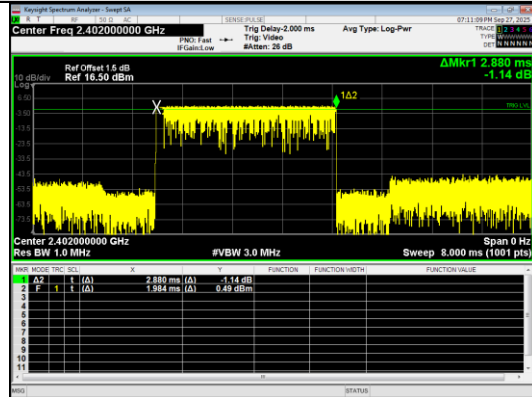
**Number of Pulses in 31.6 seconds
8DPSK_3-DH1**



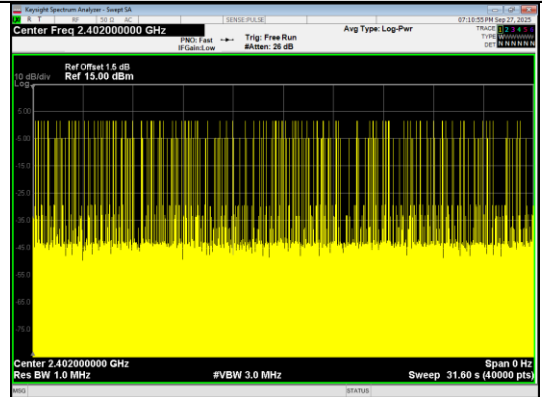
**Pulse Width
8DPSK_3-DH3**



**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

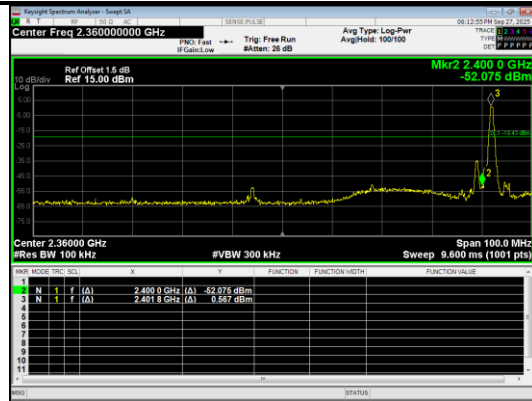
Non-Hopping

Modulation	Packet	Channel	OOB Emission Frequency (MHz)	OOB Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result
GFSK	DH5	0	2399.00	-34.998	-19.43	-15.569	PASS
			2400.00	-52.080	-19.43	-32.650	PASS
			2545.70	-44.853	-19.43	-25.423	PASS
		39	2585.06	-45.797	-19.48	-26.317	PASS
		78	2483.50	-46.610	-19.42	-27.190	PASS
			2623.76	-44.664	-19.42	-25.244	PASS
$\pi/4$ DQPSK	2-DH5	0	2398.80	-36.119	-19.41	-16.709	PASS
			2400.00	-52.120	-19.41	-32.710	PASS
			2557.60	-46.853	-19.41	-27.443	PASS
		39	24969.4	-49.133	-19.52	-29.613	PASS
		78	2483.50	-46.880	-19.43	-27.450	PASS
			2623.76	-47.050	-19.43	-27.620	PASS
8DPSK	3-DH5	0	2398.80	-36.527	-19.46	-17.067	PASS
			2400.00	-47.970	-19.46	-28.510	PASS
			2545.70	-44.373	-19.46	-24.913	PASS
		39	1756.68	-37.998	-19.41	-18.588	PASS
		78	2483.50	-46.700	-19.42	-27.280	PASS
			2624.38	-47.062	-19.42	-27.642	PASS

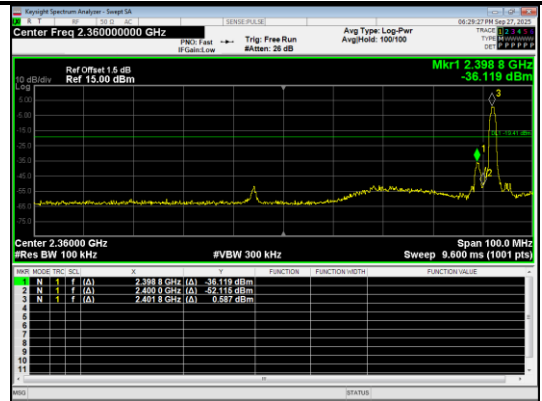
Hopping

Modulation	Packet	Channel	OOB Emission Frequency (MHz)	OOB Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result
GFSK	DH5	Hopping	2400.00	-36.300	-19.44	-16.860	PASS
			2483.50	-47.550	-19.37	-28.180	PASS
$\pi/4$ DQPSK	2-DH5		2400.00	-36.440	-19.45	-16.990	PASS
			2483.50	-47.520	-19.4	-28.120	PASS
8DPSK	3-DH5		2398.80	-36.410	-19.42	-16.990	PASS
			2400.00	-39.240	-19.42	-19.820	PASS
			2483.50	-51.520	-19.42	-32.100	PASS

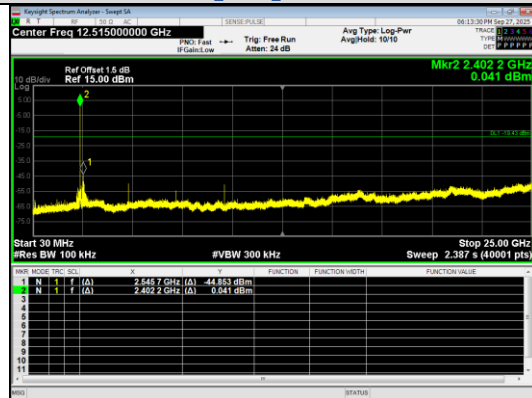
Test Graphs



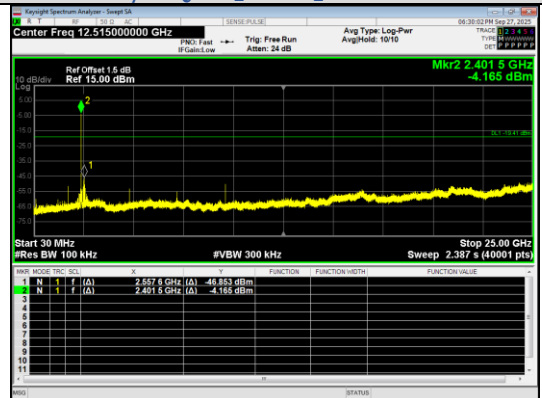
Out Of Band Emission
GFSK_DH5_Channel 0



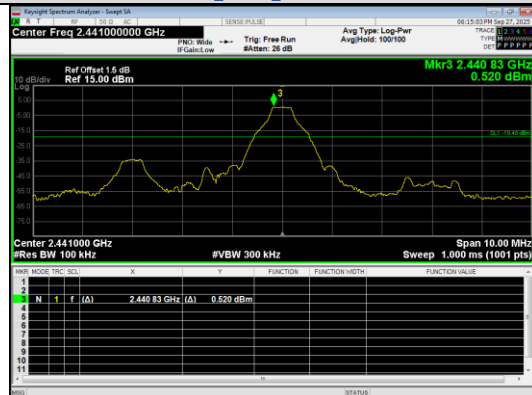
Out Of Band Emission
 $\pi/4$ DQPSK_2-DH5_Channel 0



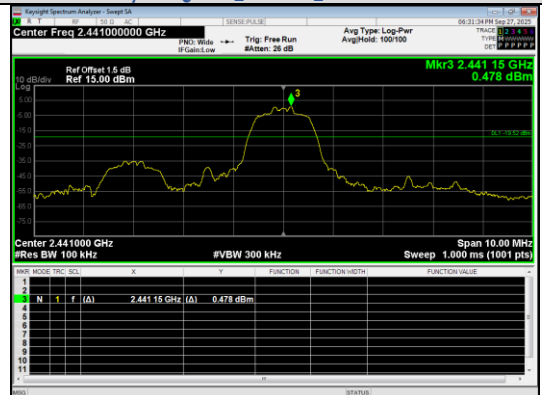
30.0 MHz - 25000.0 MHz
GFSK_DH5_Channel 0



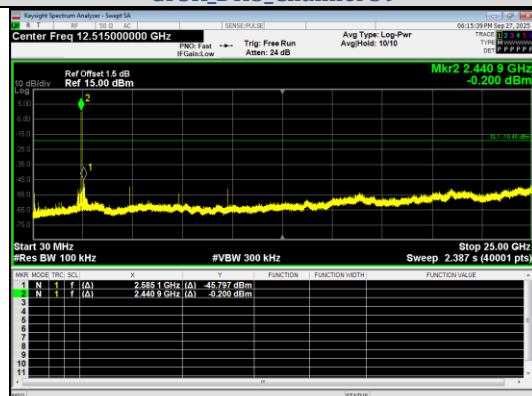
30.0 MHz - 25000.0 MHz
 $\pi/4$ DQPSK_2-DH5_Channel 0



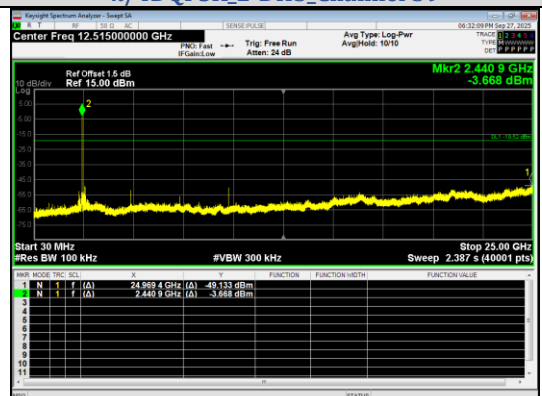
Out Of Band Emission
GFSK_DH5_Channel 39



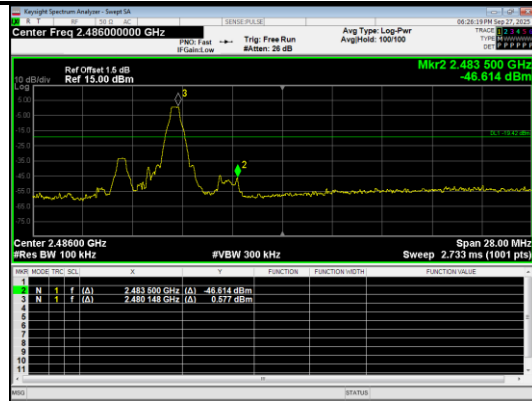
Out Of Band Emission
 $\pi/4$ DQPSK_2-DH5_Channel 39



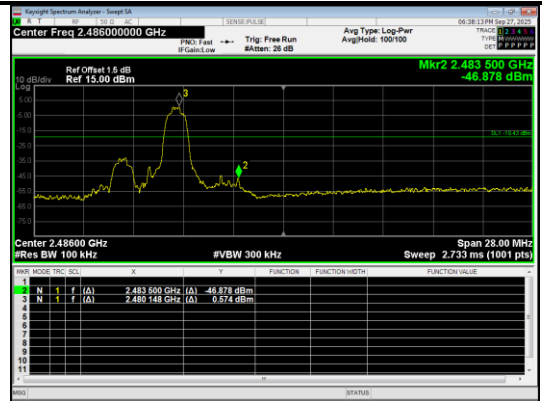
30.0 MHz - 25000.0 MHz
GFSK_DH5_Channel 39



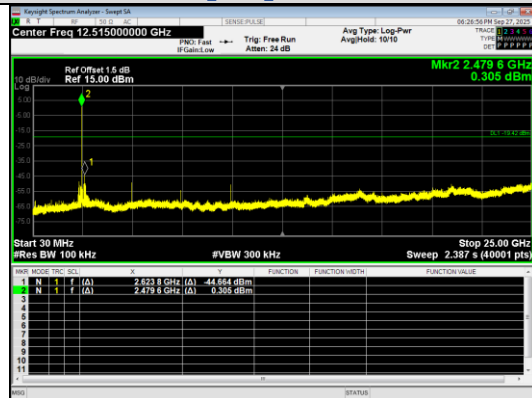
30.0 MHz - 25000.0 MHz
 $\pi/4$ DQPSK_2-DH5_Channel 39



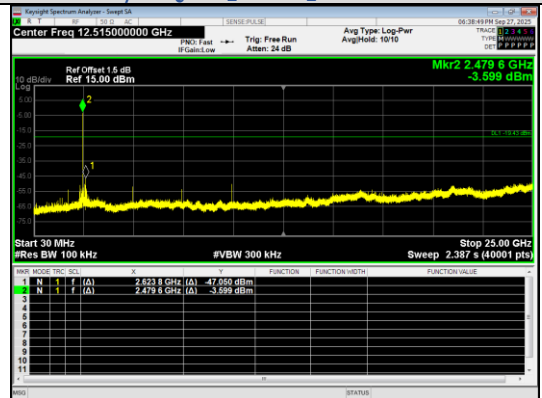
Out Of Band Emission
GFSK_DH5_Channel 78



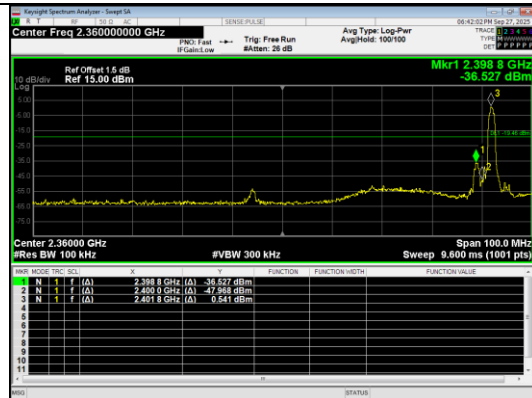
Out Of Band Emission
 $\pi/4$ DQPSK_2-DH5_Channel 78



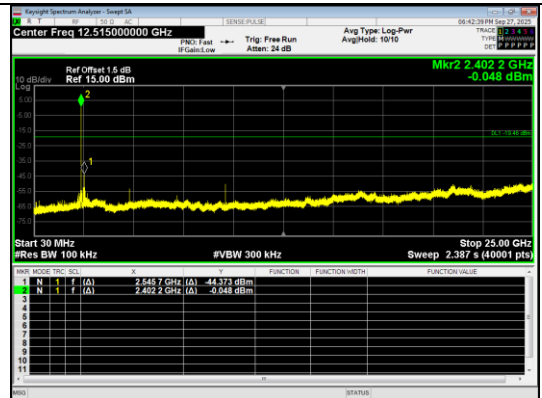
30.0 MHz - 25000.0 MHz
GFSK_DH5_Channel 78



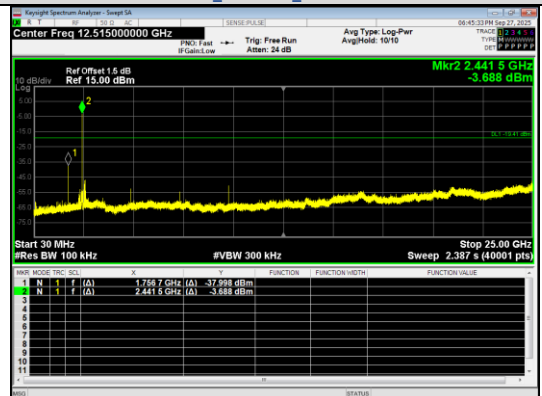
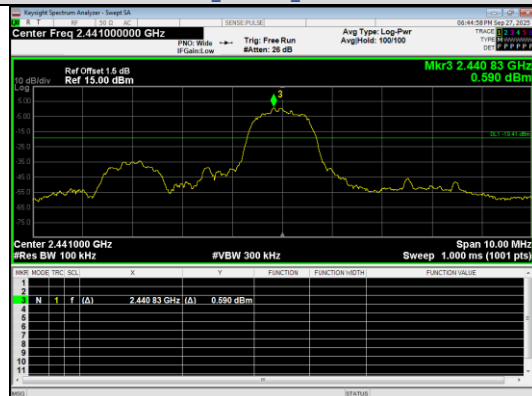
30.0 MHz - 25000.0 MHz
 $\pi/4$ DQPSK_2-DH5_Channel 78



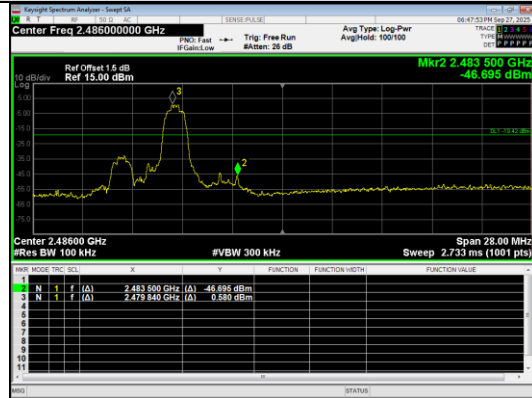
Out Of Band Emission
8DPSK_3-DH5_Channel 0



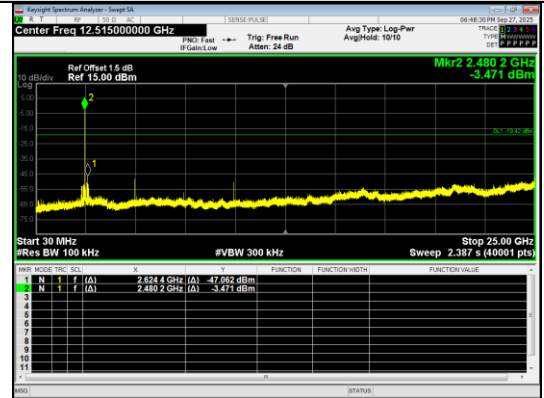
30.0 MHz - 25000.0 MHz
8DPSK_3-DH5_Channel 0



Out Of Band Emission 8DPSK_3-DH5_Channel 39

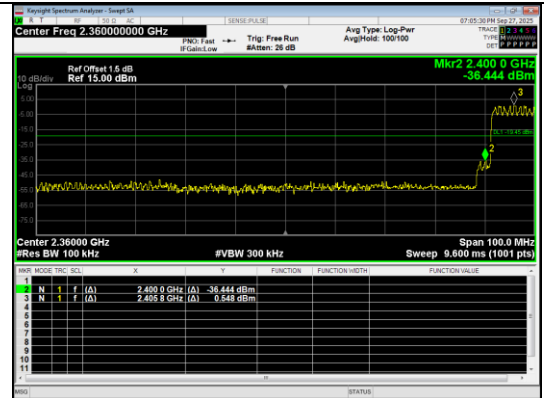
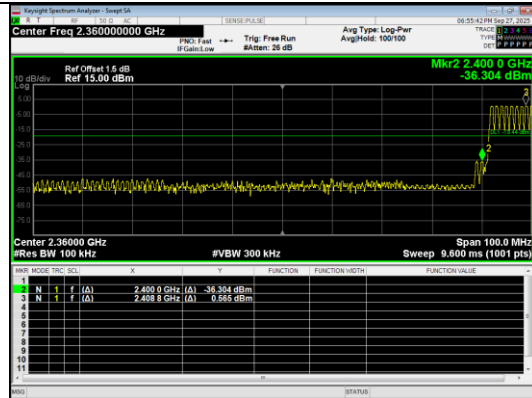


30.0 MHz - 25000.0 MHz 8DPSK_3-DH5_Channel 39



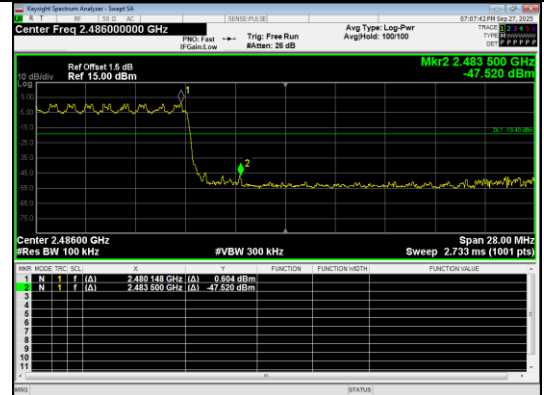
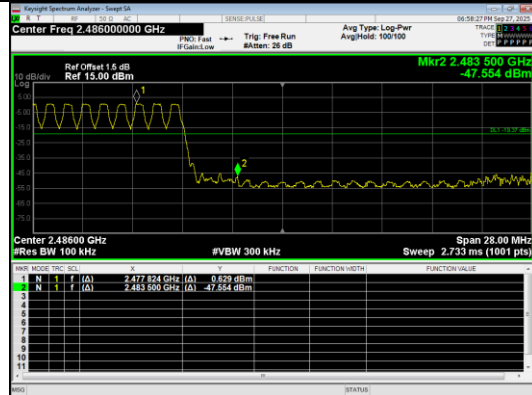
Out Of Band Emission 8DPSK_3-DH5_Channel 78

30.0 MHz - 25000.0 MHz 8DPSK_3-DH5_Channel 78



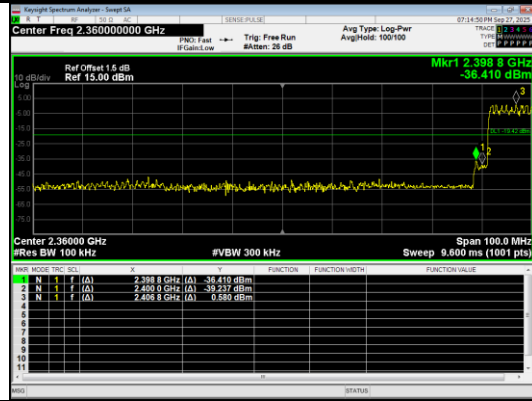
Out Of Band Emission(Left) GFSK_DH5_Channel Hopping

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

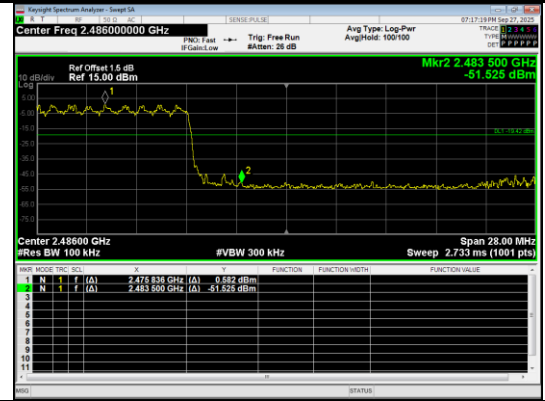


Out Of Band Emission(Right) GFSK_DH5_Channel Hopping

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 *****