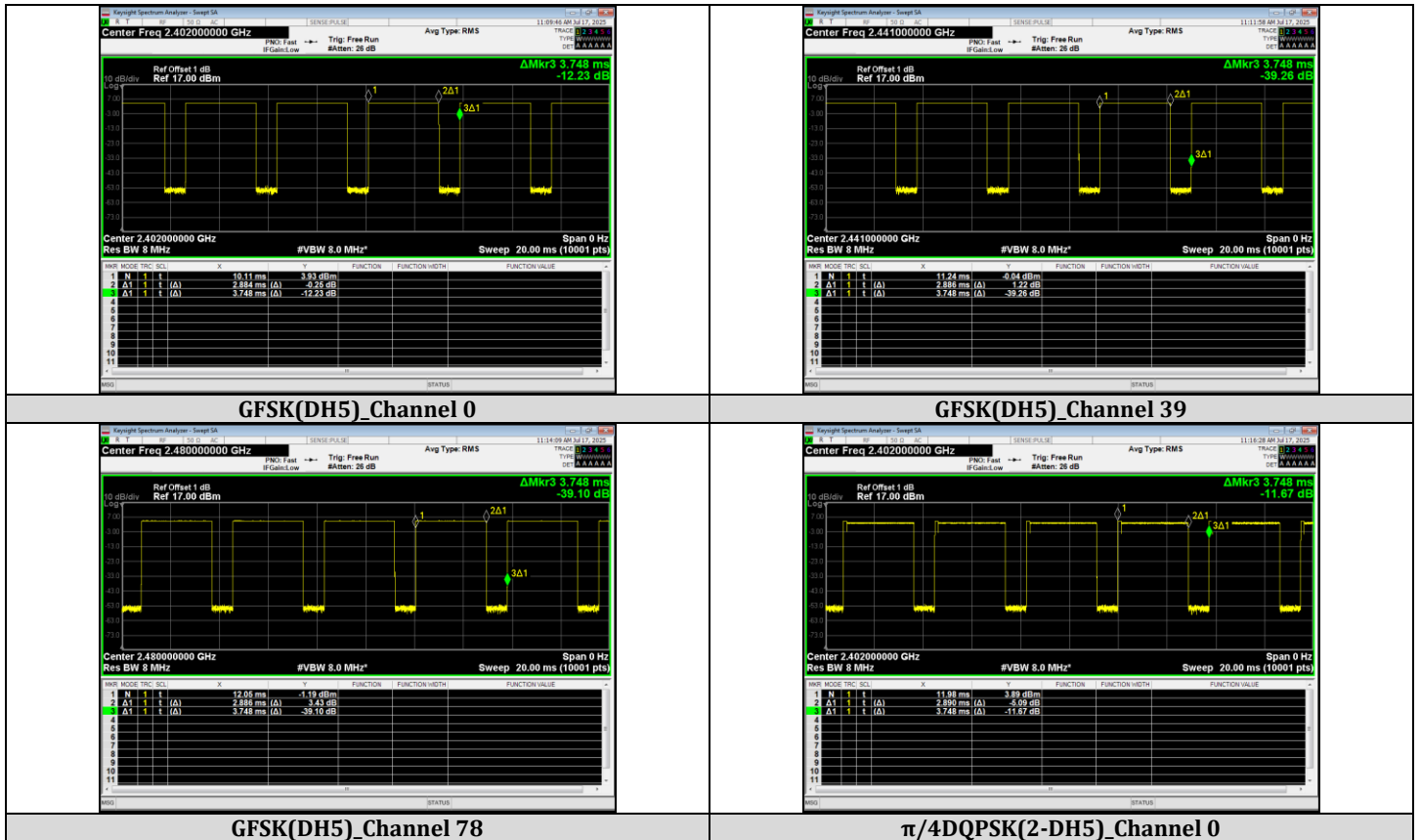


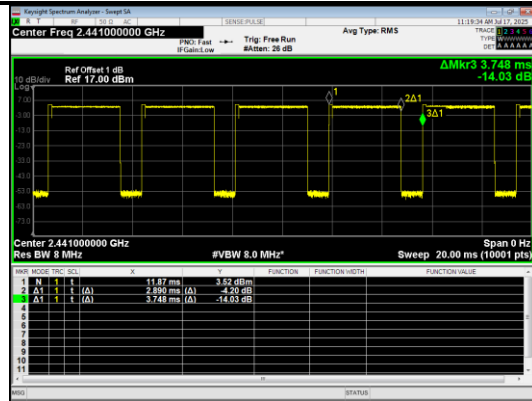
Appendix Test Data for BT2(JL7016M)

Duty Cycle Test Result

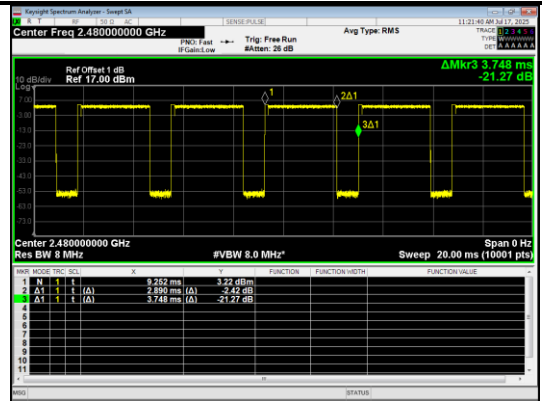
Modulation	Packets	Channel	On Time (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle (linear)	Duty Cycle Factor (dB)	1/T
GFSK	DH5	0	2.884	3.748	76.95	0.7695	1.1379	0.3467
		39	2.886	3.748	77.00	0.7700	1.1351	0.3465
		78	2.886	3.748	77.00	0.7700	1.1351	0.3465
$\pi/4$ DQPSK	2-DH5	0	2.890	3.748	77.11	0.7711	1.1289	0.3460
		39	2.890	3.748	77.11	0.7711	1.1289	0.3460
		78	2.890	3.748	77.11	0.7711	1.1289	0.3460
8DPSK	3-DH5	0	2.892	3.748	77.16	0.7716	1.1261	0.3458
		39	2.894	3.748	77.21	0.7721	1.1233	0.3455
		78	2.892	3.748	77.16	0.7716	1.1261	0.3458

Test Graphs

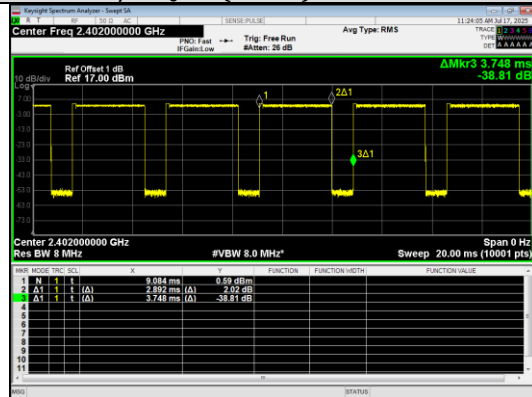




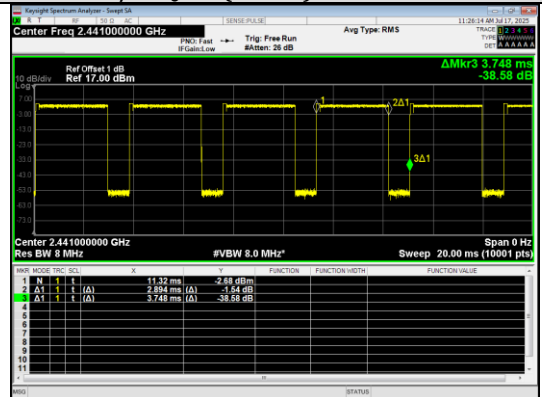
$\pi/4$ DQPSK(2-DH5)_Channel 39



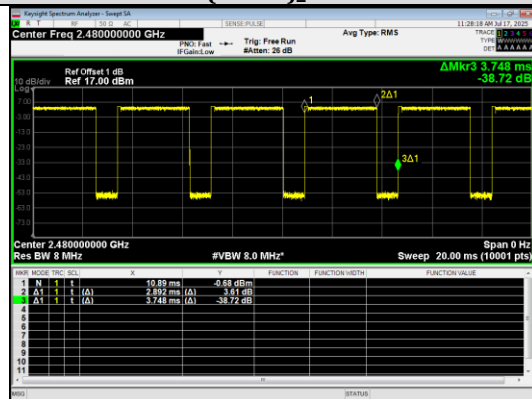
$\pi/4$ DQPSK(2-DH5)_Channel 78



8DPSK(3-DH5)_Channel 0



8DPSK(3-DH5)_Channel 39



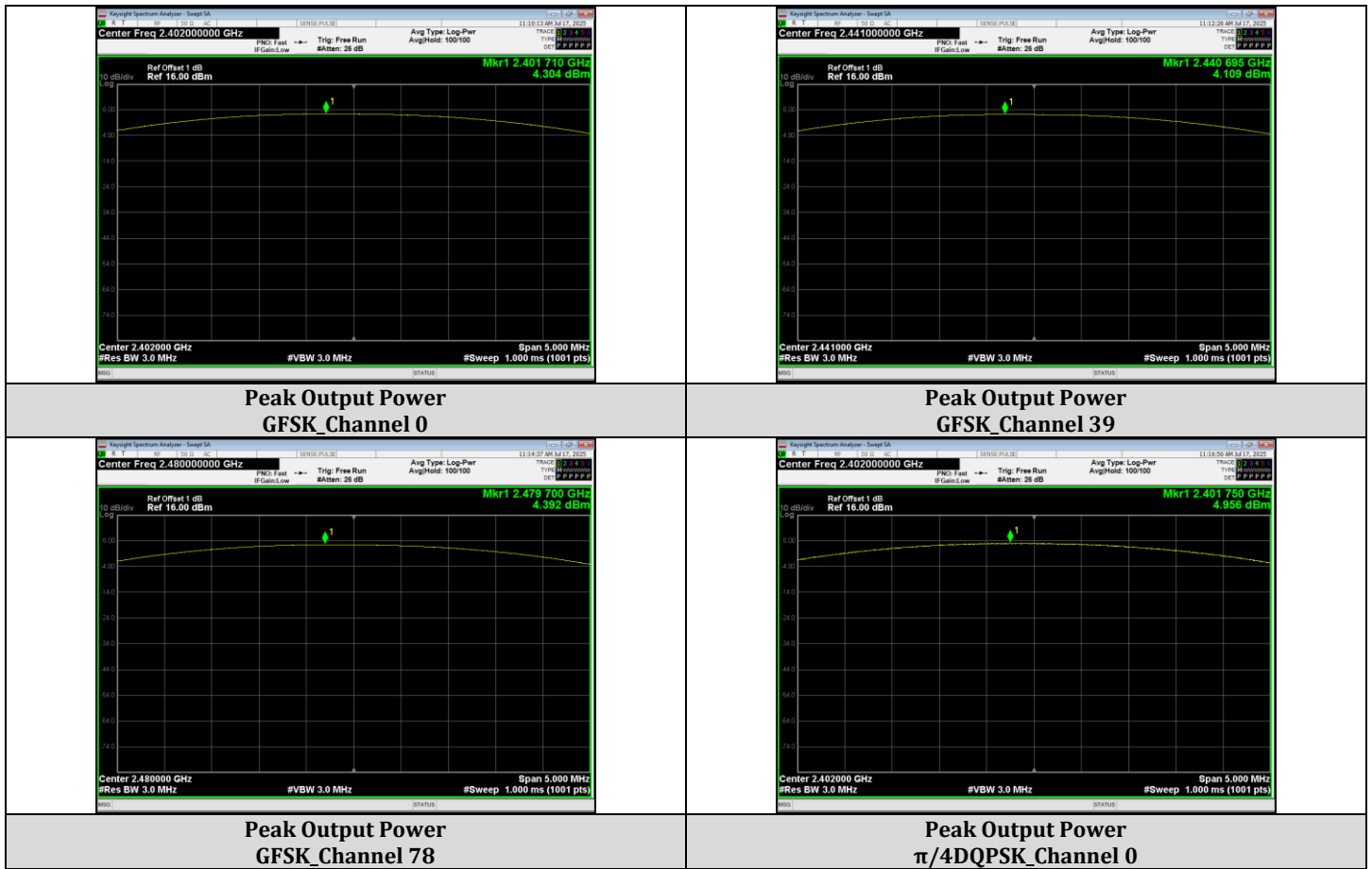
8DPSK(3-DH5)_Channel 78

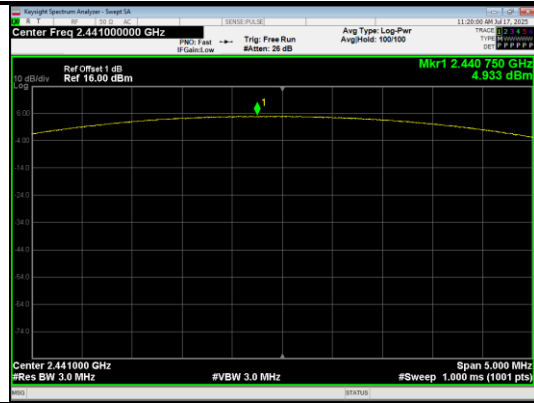
Conducted Output Power

Test Result

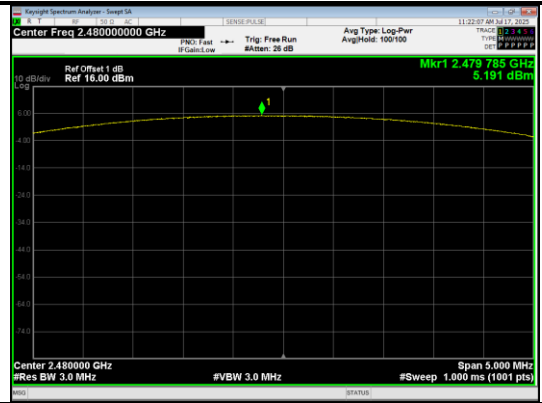
Modulation	Packet Type	Channel	Peak Output Power (dBm)	Peak Output Power (mW)	Limit (dBm)	Result
GFSK	DH5	0	4.30	2.69	≤30	PASS
		39	4.11	2.58		PASS
		78	4.39	2.75		PASS
$\pi/4$ DQPSK	2-DH5	0	4.96	3.13	≤20.97	PASS
		39	4.93	3.11		PASS
		78	5.19	3.30		PASS
8DPSK	3-DH5	0	5.26	3.36		PASS
		39	5.20	3.31		PASS
		78	5.54	3.58		PASS

Test Graphs

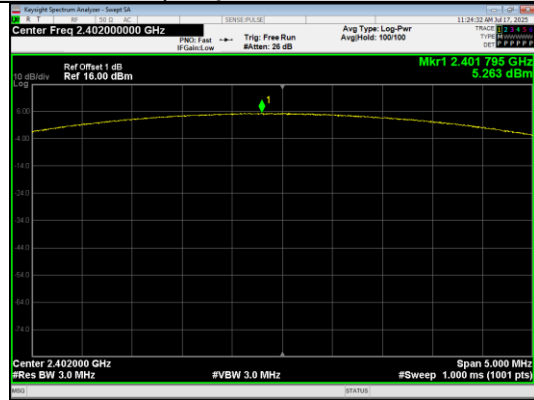




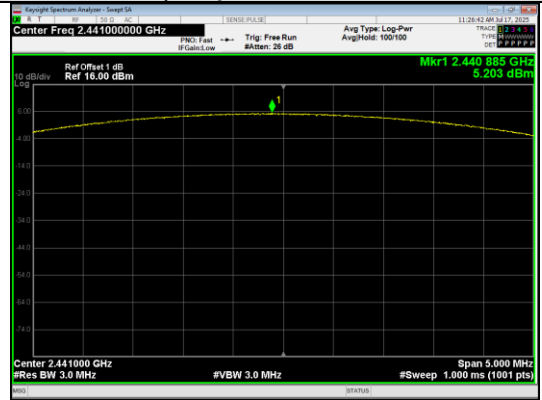
Peak Output Power
 $\pi/4$ DQPSK_Channel 39



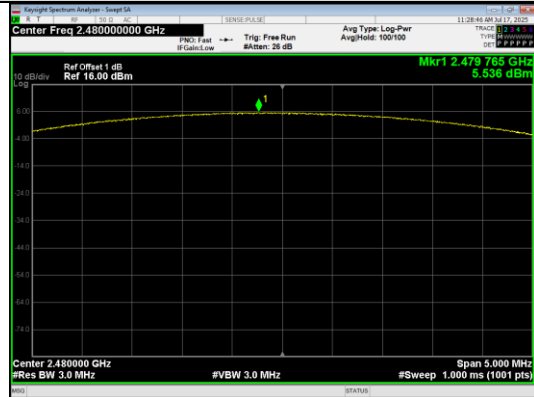
Peak Output Power
 $\pi/4$ DQPSK_Channel 78



Peak Output Power
8DPSK_Channel 0



Peak Output Power
8DPSK_Channel 39



Peak Output Power
8DPSK_Channel 78

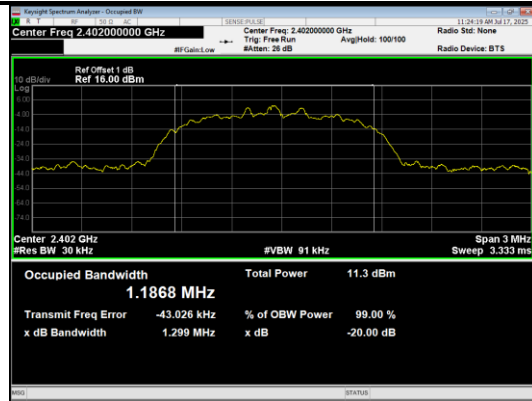
20dB Bandwidth

Test Result

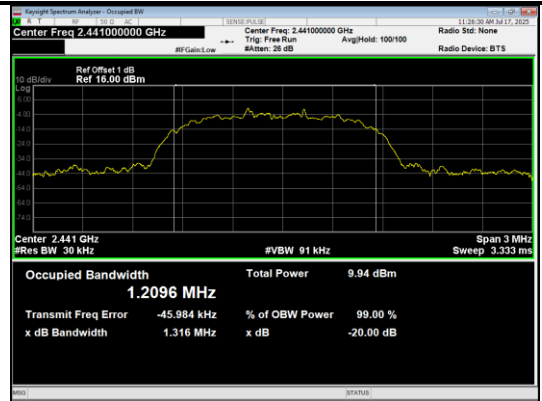
Modulation	Channel	Center Frequency (MHz)	20 dB Bandwidth (MHz)
GFSK	0	2402 MHz	0.9500
	39	2441 MHz	0.9500
	78	2480 MHz	0.9500
$\pi/4$ DQPSK	0	2402 MHz	1.310
	39	2441 MHz	1.310
	78	2480 MHz	1.310
8DPSK	0	2402 MHz	1.300
	39	2441 MHz	1.320
	78	2480 MHz	1.300

Test Graphs

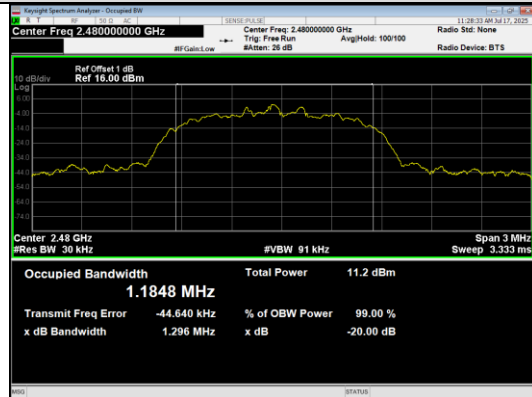




8DPSK_3-DH5_Channel 0



8DPSK_3-DH5_Channel 39



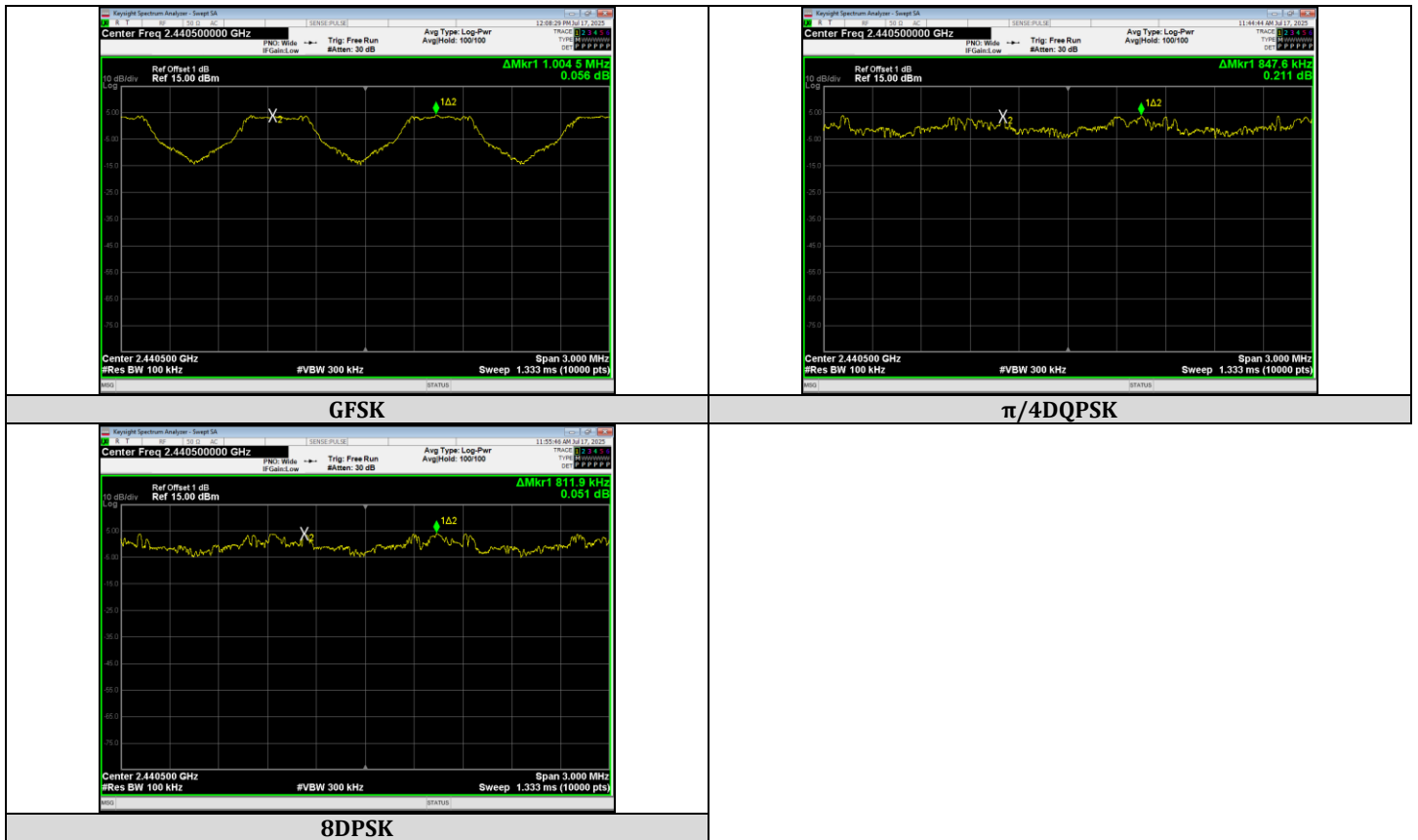
8DPSK_3-DH5_Channel 78

Carrier Frequencies Separation

Test Result

Modulation	Packet	Left Center frequency (MHz)	Right Center frequency (MHz)	Hopping Frequency Separation (MHz)	Limit (MHz)	Result
GFSK	DH5	2439.9304	2440.9349	1.0045	0.99	PASS
$\pi/4$ DQPSK	2-DH5	2440.1017	2440.9493	0.8476	0.99	PASS
8DPSK	3-DH5	2440.1254	2440.9373	0.8119	0.99	PASS

Test Graphs

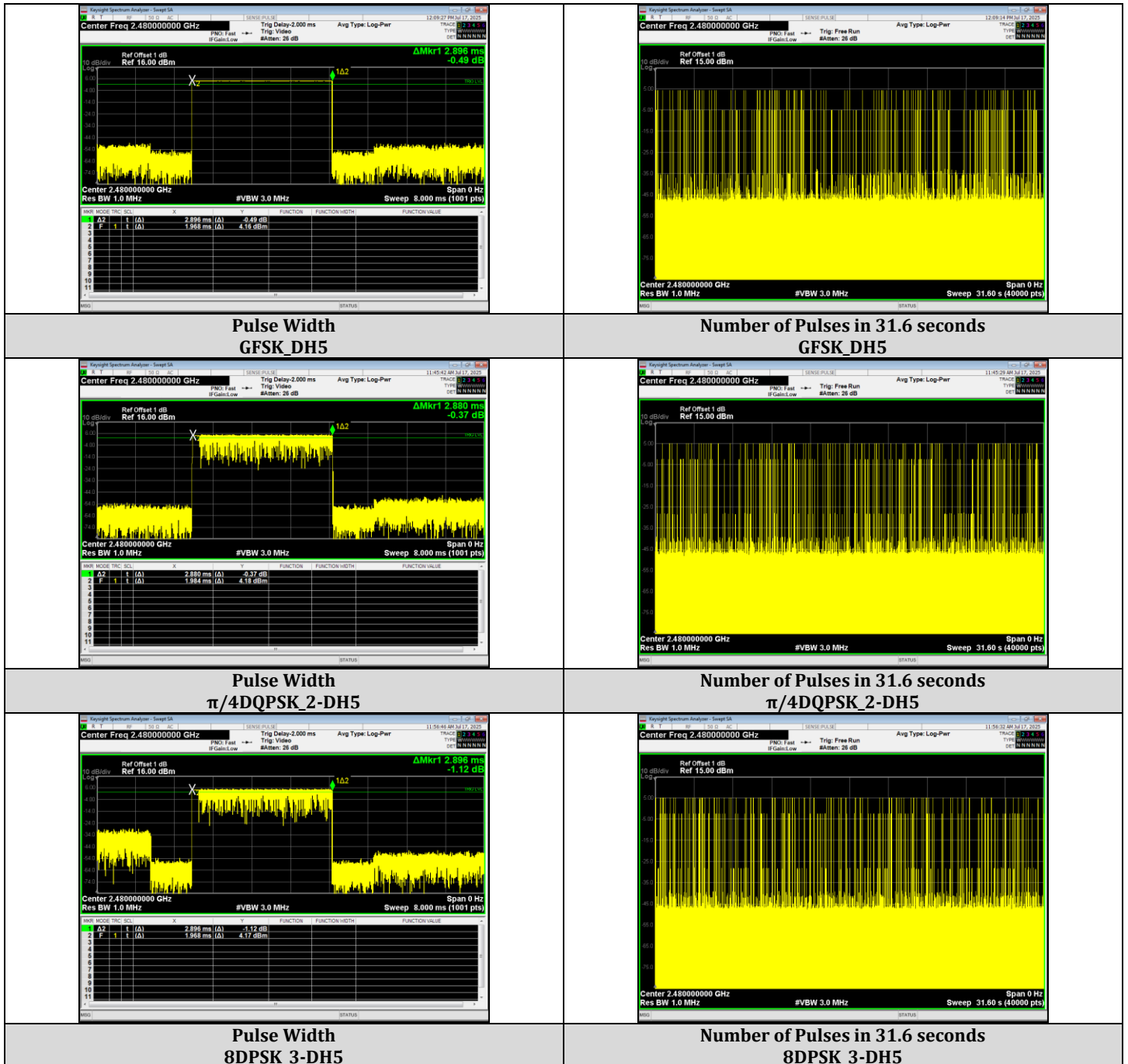


Dwell Time

Test Result

Modulation	Packet	Channel	Pulse Width (ms)	Number of Pulses in 31.6 seconds	Dwell Time (ms)	Limit (ms)	Result
GFSK	DH5	Hopping	2.896	104	301.18	< 400	PASS
$\pi/4$ DQPSK	2-DH5		2.880	108	311.04		PASS
8DPSK	3-DH5		2.896	107	309.87		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



Conducted Out Of Band Emission

Test Result

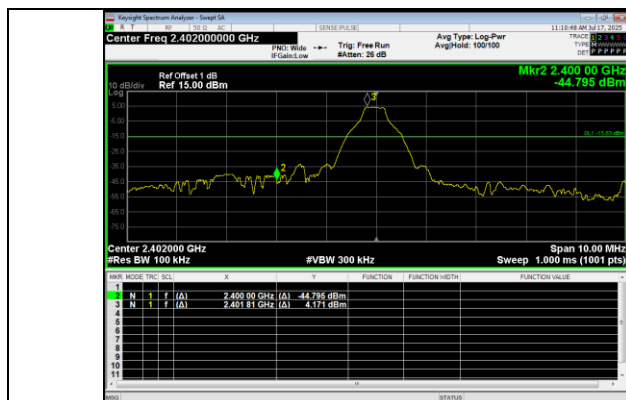
Non-Hopping

Modulation	Packet	Channel	OOB Emission Frequency (MHz)	OOB Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result
GFSK	DH5	0	2399.00	-40.203	-15.83	-24.373	PASS
			2400.00	-44.800	-15.83	-28.970	PASS
			9601.90	-34.430	-15.83	-18.600	PASS
		39	9757.93	-34.509	-15.92	-18.589	PASS
		78	2483.50	-49.980	-15.71	-34.270	PASS
			9914.00	-35.976	-15.71	-20.266	PASS
$\pi/4$ DQPSK	2-DH5	0	904.60	-33.928	-15.81	-18.118	PASS
			2398.94	-40.306	-15.81	-24.496	PASS
			2400.00	-46.330	-15.81	-30.520	PASS
		39	9757.93	-34.479	-15.96	-18.519	PASS
		78	2483.50	-50.660	-15.68	-34.980	PASS
			9914.00	-35.903	-15.68	-20.223	PASS
8DPSK	3-DH5	0	2398.95	-40.863	-15.85	-25.013	PASS
			2400.00	-43.230	-15.85	-27.380	PASS
			9601.90	-34.159	-15.85	-18.309	PASS
		39	9757.93	-34.342	-16.05	-18.292	PASS
		78	908.34	-33.520	-15.72	-17.800	PASS
			2483.50	-50.730	-15.72	-35.010	PASS

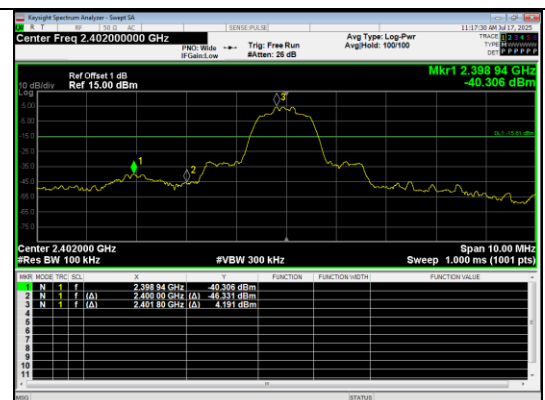
Hopping

Modulation	Packet	Channel	OOB Emission Frequency (MHz)	OOB Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result
GFSK	DH5	Hopping	2400.00	-40.650	-15.89	-24.760	PASS
			2483.50	-50.200	-16.02	-34.180	PASS
$\pi/4$ DQPSK	2-DH5		2400.00	-41.190	-15.83	-25.360	PASS
			2483.50	-51.070	-15.68	-35.390	PASS
8DPSK	3-DH5		2400.00	-41.440	-15.86	-25.580	PASS
			2483.50	-53.130	-15.81	-37.320	PASS

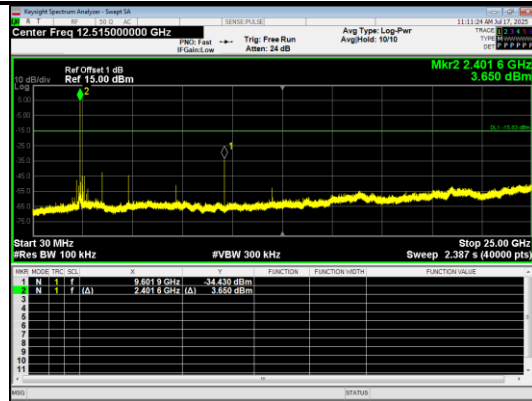
Test Graphs



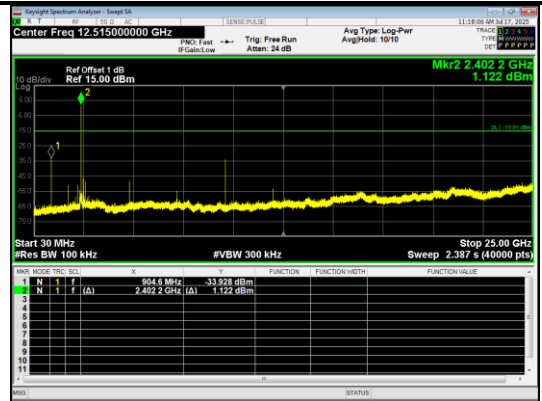
Out Of Band Emission
GFSK_DH5_Channel 0



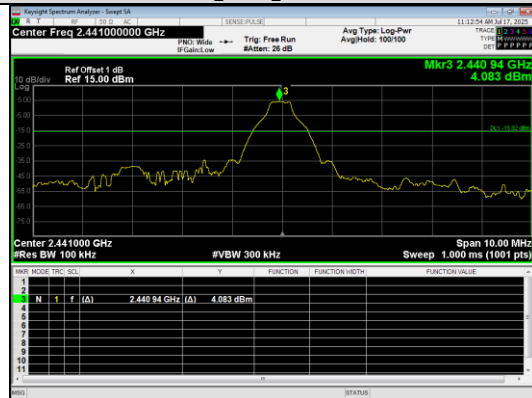
Out Of Band Emission
 $\pi/4$ DQPSK_2-DH5_Channel 0



30.0 MHz - 25000.0 MHz
GFSK_DH5_Channel 0



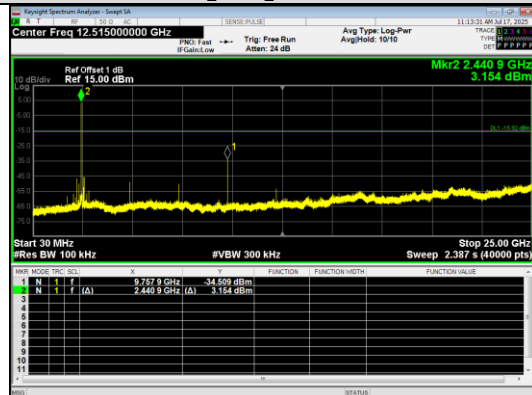
30.0 MHz - 25000.0 MHz
 $\pi/4$ DQPSK_2-DH5_Channel 0



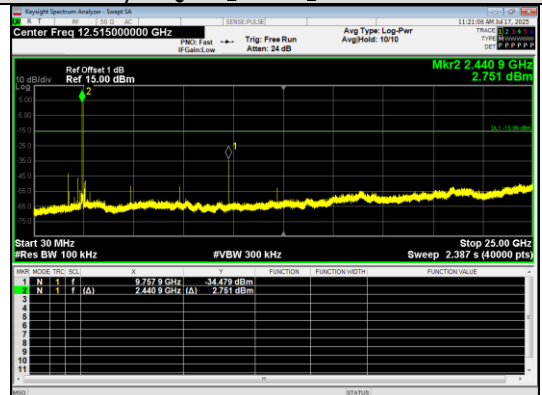
Out Of Band Emission
GFSK_DH5_Channel 39



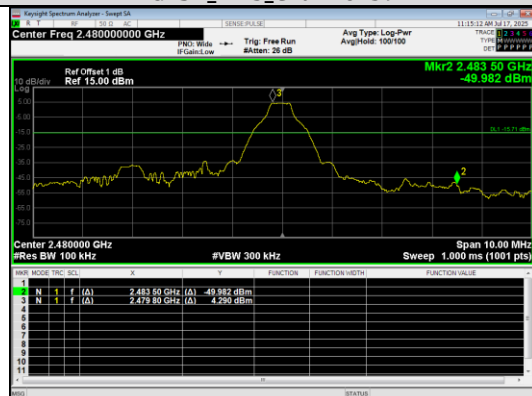
Out Of Band Emission
 $\pi/4$ DQPSK_2-DH5_Channel 39



30.0 MHz - 25000.0 MHz
GFSK_DH5_Channel 39



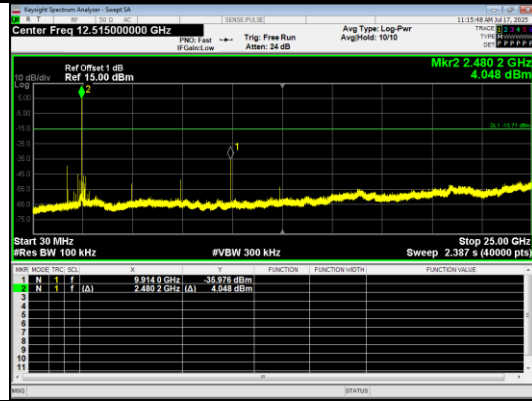
30.0 MHz - 25000.0 MHz
 $\pi/4$ DQPSK_2-DH5_Channel 39



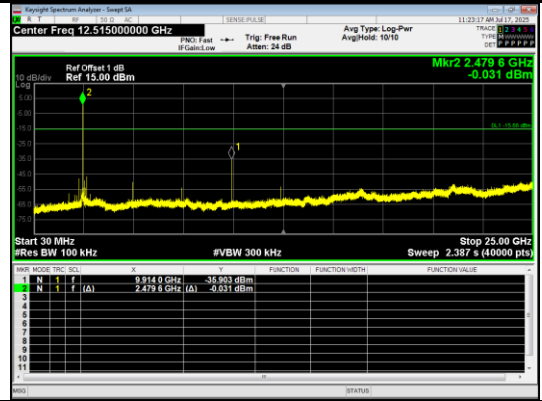
Out Of Band Emission
GFSK_DH5_Channel 78



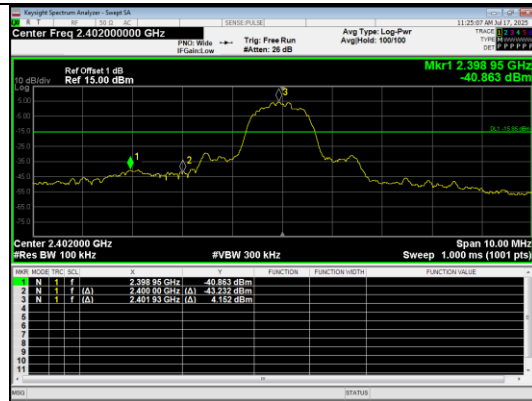
Out Of Band Emission
 $\pi/4$ DQPSK_2-DH5_Channel 78



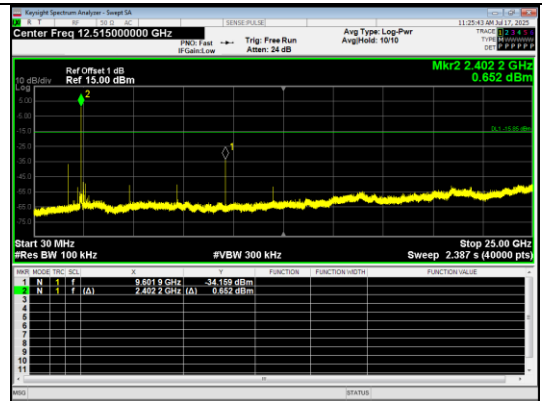
30.0 MHz - 25000.0 MHz
GFSK_DH5_Channel 78



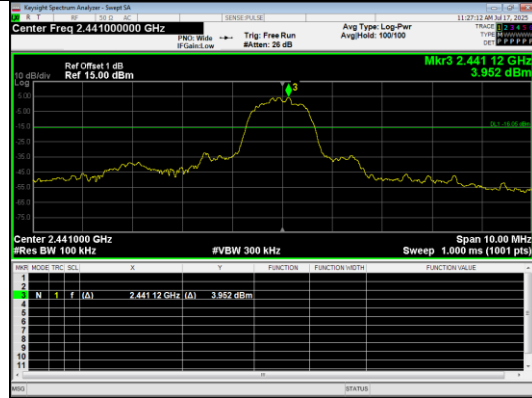
30.0 MHz - 25000.0 MHz
 $\pi/4$ DQPSK_2-DH5_Channel 78



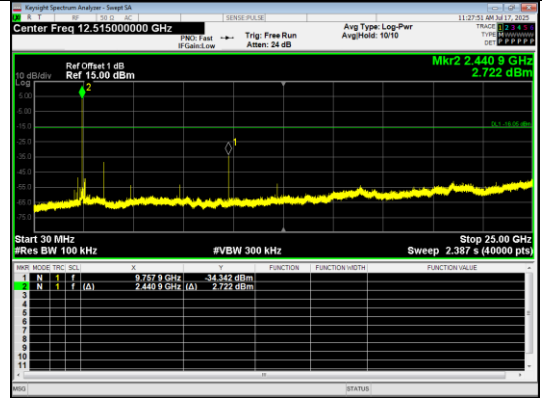
Out Of Band Emission
8DPSK_3-DH5_Channel 0



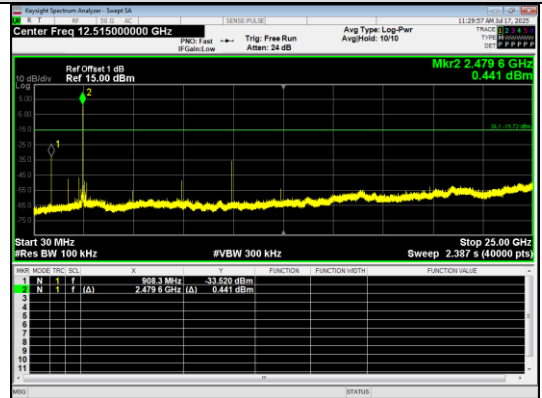
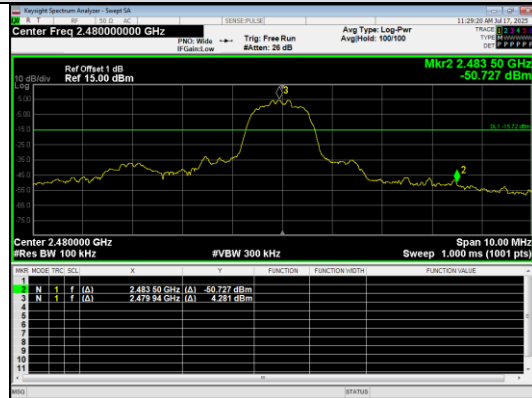
30.0 MHz - 25000.0 MHz
8DPSK_3-DH5_Channel 0



Out Of Band Emission
8DPSK_3-DH5_Channel 39

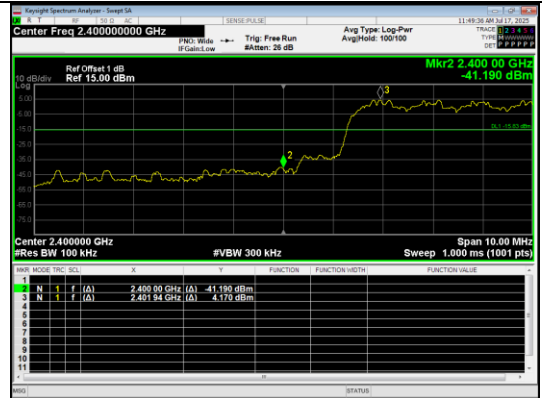
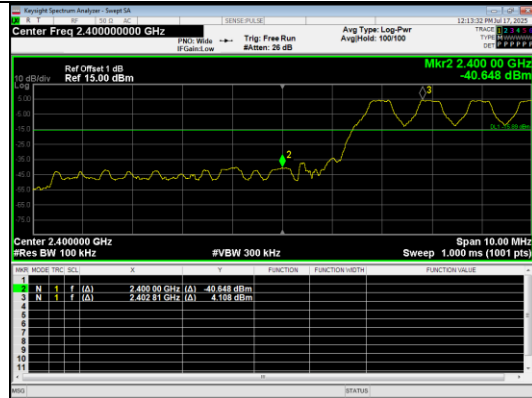


30.0 MHz - 25000.0 MHz
8DPSK_3-DH5_Channel 39



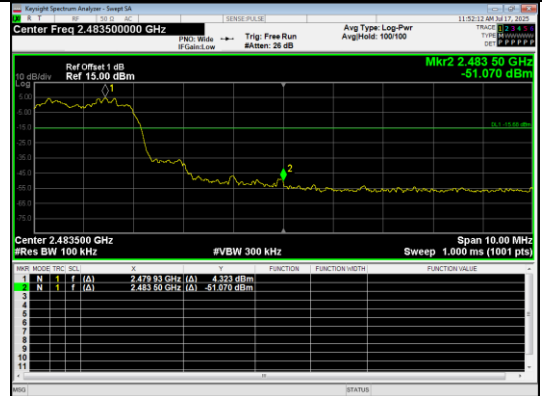
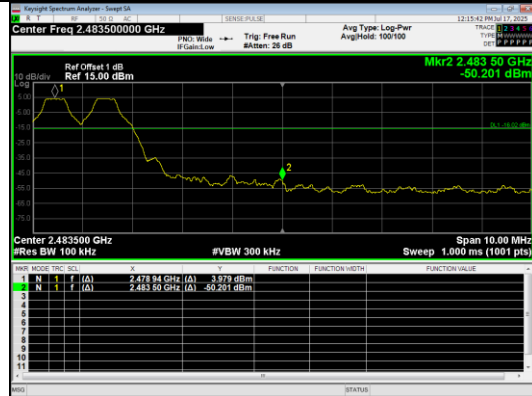
Out Of Band Emission 8DPSK_3-DH5_Channel 78

30.0 MHz - 25000.0 MHz 8DPSK_3-DH5_Channel 78



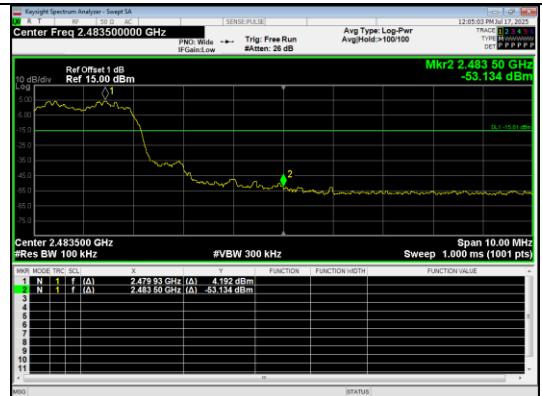
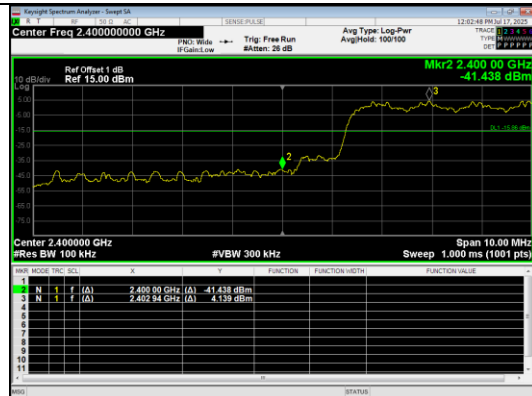
Out Of Band Emission(Left) 8FSK_DH5_Channel Hopping

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



Out Of Band Emission(Right) 8FSK_DH5_Channel Hopping

Out Of Band Emission(Right) pi/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 of Report *****