

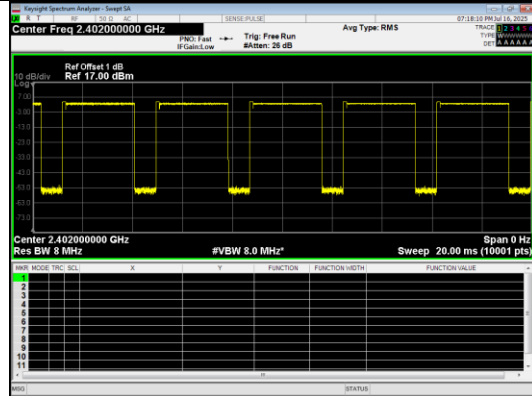
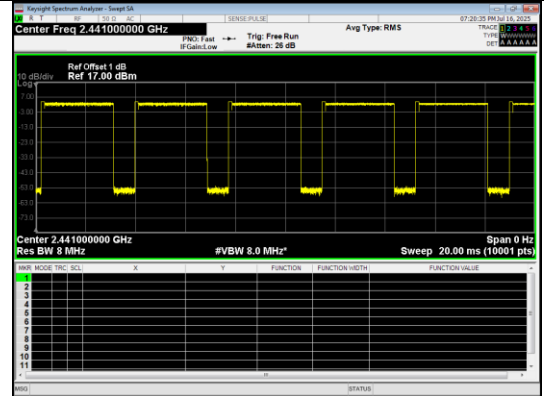
Duty Cycle

Test Result

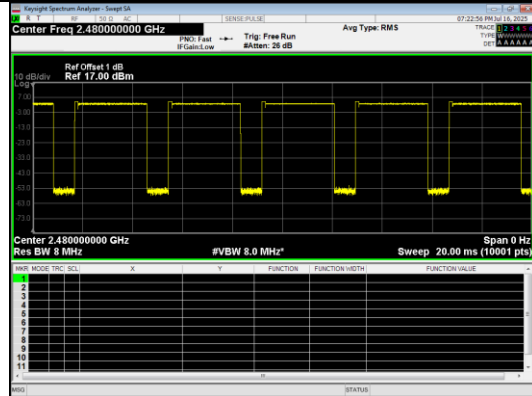
Modulation	Packets	Channel	On Time (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle (linear)	Duty Cycle Factor (dB)	1/T
GFSK	DH5	0	2.884	3.748	76.95	0.7695	1.1379	0.3467
		39	2.884	3.748	76.95	0.7695	1.1379	0.3467
		78	2.886	3.748	77.00	0.7700	1.1351	0.3465
$\pi/4$ DQPSK	2-DH5	0	2.892	3.750	77.12	0.7712	1.1283	0.3458
		39	2.892	3.748	77.16	0.7716	1.1261	0.3458
		78	2.892	3.748	77.16	0.7716	1.1261	0.3458
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

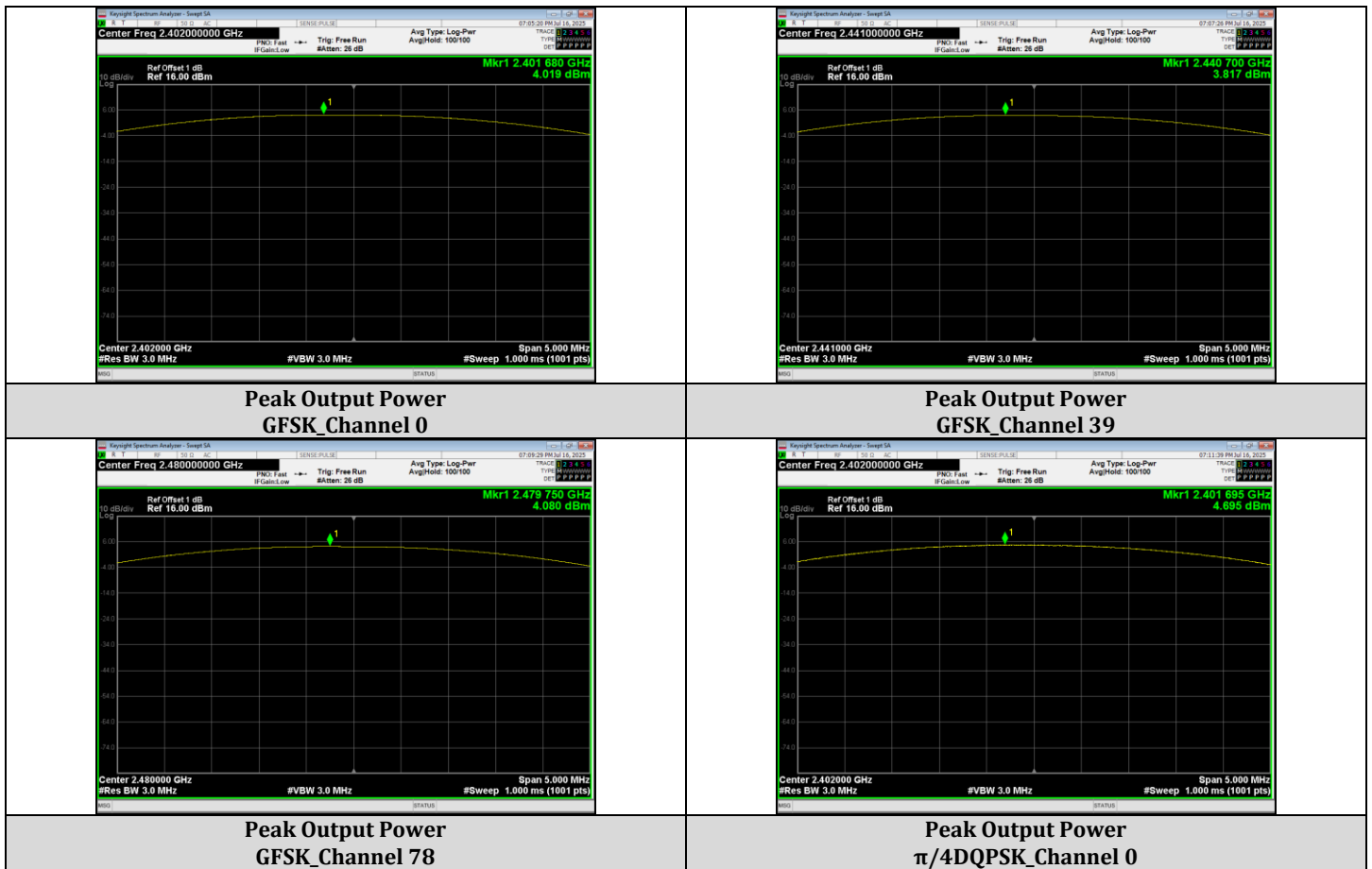
8DPSK(3-DH5)_Channel 78

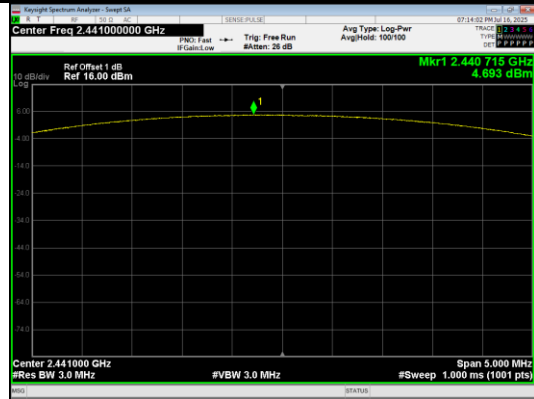
Conducted Output Power

Test Result

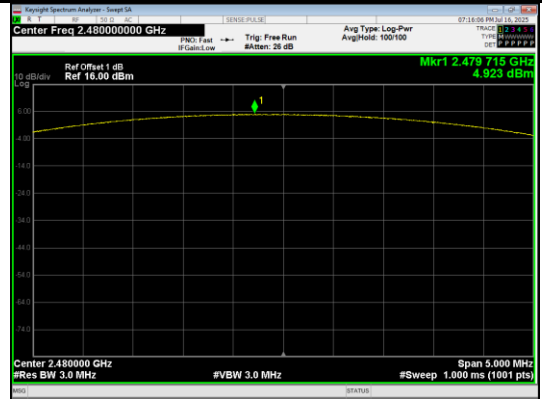
Modulation	Packet Type	Channel	Peak Output Power (dBm)	Peak Output Power (mW)	Limit (dBm)	Result
GFSK	DH5	0	4.02	2.52	≤30	PASS
		39	3.82	2.41		PASS
		78	4.08	2.56		PASS
$\pi/4$ DQPSK	2-DH5	0	4.70	2.95	≤20.97	PASS
		39	4.69	2.94		PASS
		78	4.92	3.10		PASS
8DPSK	3-DH5	0	5.04	3.19	≤20.97	PASS
		39	4.97	3.14		PASS
		78	5.29	3.38		PASS

Test Graphs

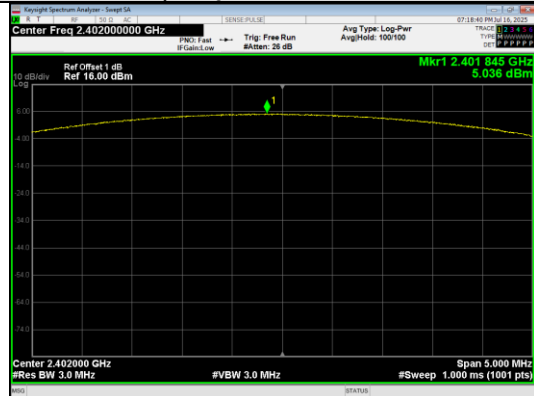




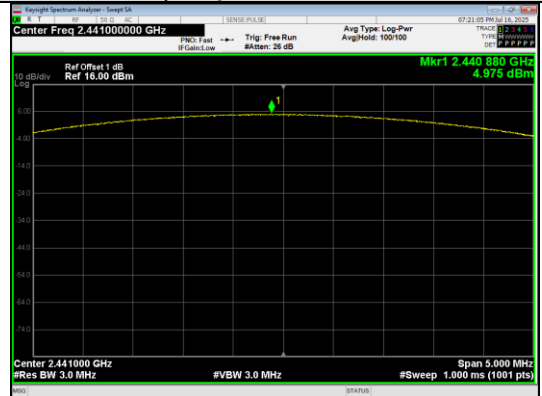
Peak Output Power
 $\pi/4$ DQPSK_Channel 39



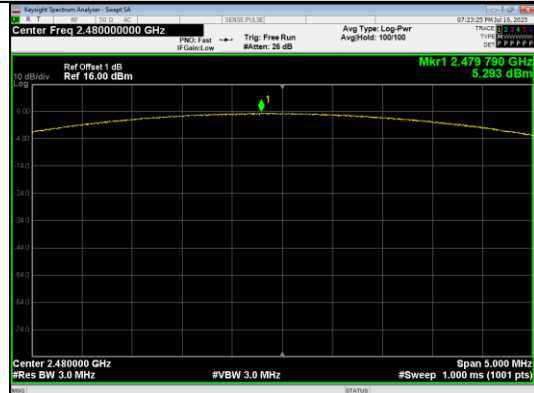
Peak Output Power
 $\pi/4$ DQPSK_Channel 78



Peak Output Power
8DPSK_Channel 0



Peak Output Power
8DPSK_Channel 39



Peak Output Power
8DPSK_Channel 78

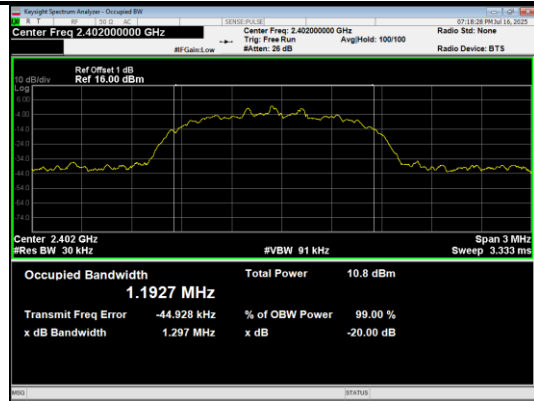
20dB Bandwidth

Test Result

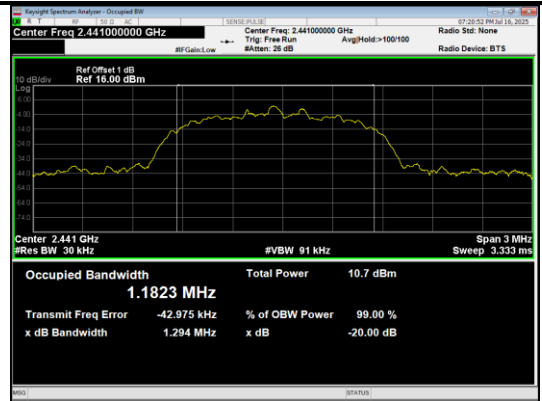
Modulation	Channel	Center Frequency (MHz)	20 dB Bandwidth (MHz)
GFSK	0	2402 MHz	0.9500
	39	2441 MHz	0.9500
	78	2480 MHz	0.9600
$\pi/4$ DQPSK	0	2402 MHz	1.310
	39	2441 MHz	1.280
	78	2480 MHz	1.310
8DPSK	0	2402 MHz	1.300
	39	2441 MHz	1.290
	78	2480 MHz	1.290

Test Graphs

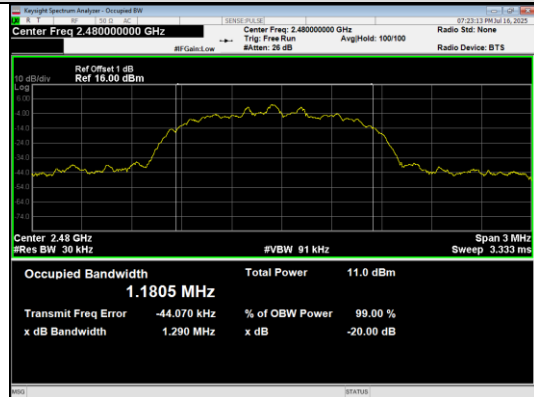




8DPSK_3-DH5_Channel 0



8DPSK_3-DH5_Channel 39



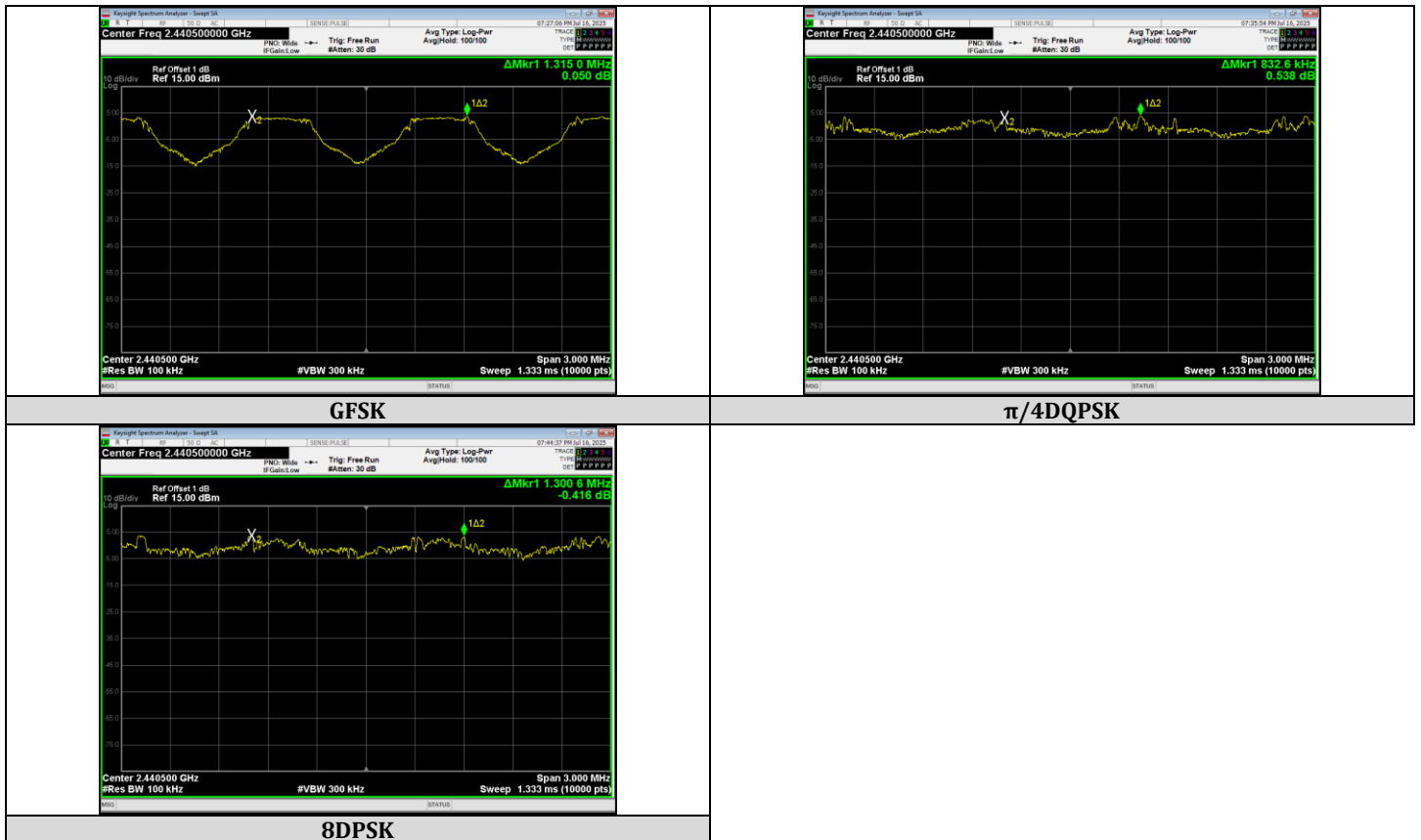
8DPSK_3-DH5_Channel 78

Carrier Frequencies Separation

Test Result

Modulation	Packet	Left Center frequency (MHz)	Right Center frequency (MHz)	Hopping Frequency Separation (MHz)	Limit (MHz)	Result
GFSK	DH5	2439.8026	2441.1176	1.3150	0.99	PASS
$\pi/4$ DQPSK	2-DH5	2440.0978	2440.9304	0.8326	0.99	PASS
8DPSK	3-DH5	2439.7984	2441.099	1.3006	0.99	PASS

Test Graphs

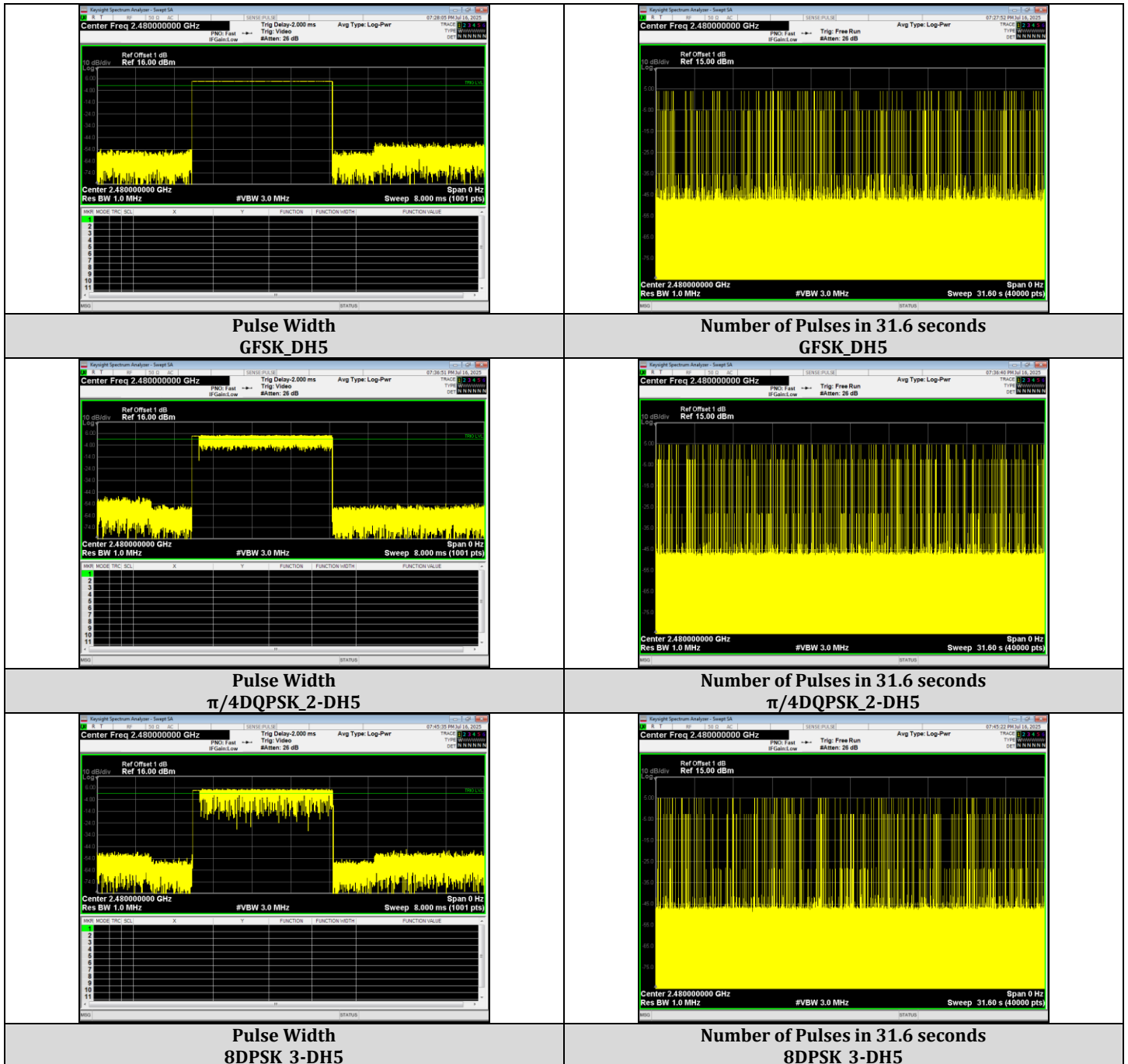


Dwell Time

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	109	315.66	< 400	PASS
$\pi/4$ DQPSK	2-DH5		2.896	117	338.83		PASS
8DPSK	3-DH5		2.880	103	296.64		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

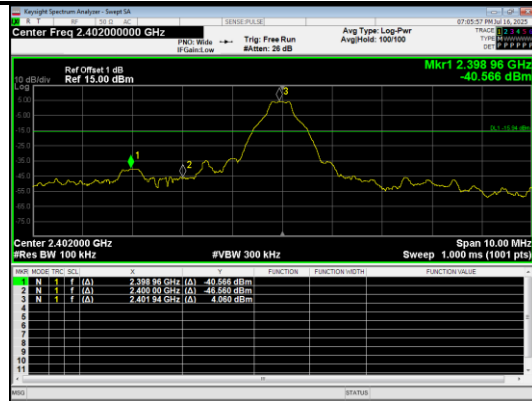
Non-Hopping

Modulation	Packet	Channel	OOB Emission Frequency (MHz)	OOB Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result
GFSK	DH5	0	2398.96	-40.566	-15.94	-24.626	PASS
			2400.00	-46.560	-15.94	-30.620	PASS
			9601.90	-34.274	-15.94	-18.334	PASS
		39	9757.93	-34.473	-16.2	-18.273	PASS
		78	2483.50	-50.690	-15.89	-34.800	PASS
			9914.00	-35.793	-15.89	-19.903	PASS
$\pi/4$ DQPSK	2-DH5	0	2398.94	-40.610	-15.99	-24.620	PASS
			2400.00	-45.780	-15.99	-29.790	PASS
			9601.90	-34.075	-15.99	-18.085	PASS
		39	9757.93	-34.223	-16.07	-18.153	PASS
		78	2483.50	-51.190	-15.92	-35.270	PASS
			9914.00	-35.749	-15.92	-19.829	PASS
8DPSK	3-DH5	0	2398.95	-40.813	-15.96	-24.853	PASS
			2400.00	-45.340	-15.96	-29.380	PASS
			9601.90	-34.096	-15.96	-18.136	PASS
		39	9757.93	-34.255	-16.22	-18.035	PASS
		78	2483.50	-51.870	-15.85	-36.020	PASS
			9914.00	-35.667	-15.85	-19.817	PASS

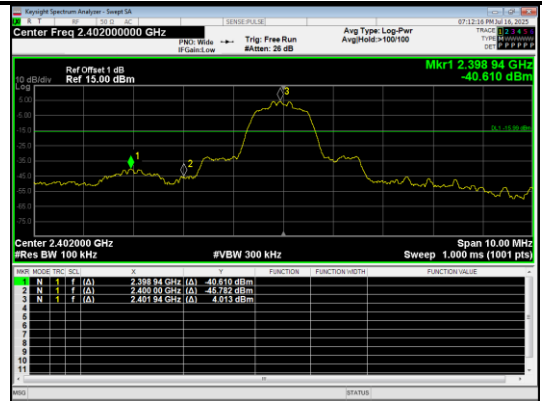
Hopping

Modulation	Packet	Channel	OOB Emission Frequency (MHz)	OOB Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result
GFSK	DH5	Hopping	2400.00	-40.510	-16.06	-24.450	PASS
			2483.50	-52.270	-15.87	-36.400	PASS
$\pi/4$ DQPSK	2-DH5		2400.00	-42.040	-16.07	-25.970	PASS
			2483.50	-53.260	-15.95	-37.310	PASS
8DPSK	3-DH5		2398.94	-40.730	-16.09	-24.640	PASS
			2400.00	-42.430	-16.09	-26.340	PASS
			2483.50	-53.550	-16.0	-37.550	PASS

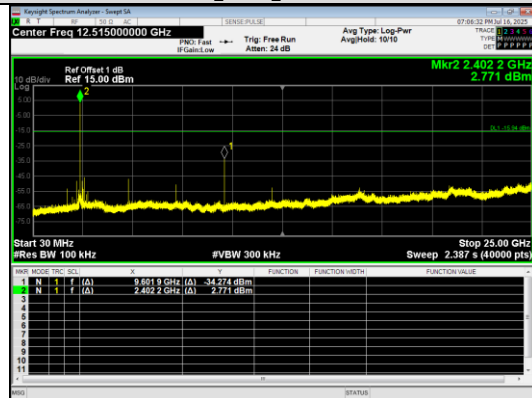
Test Graphs



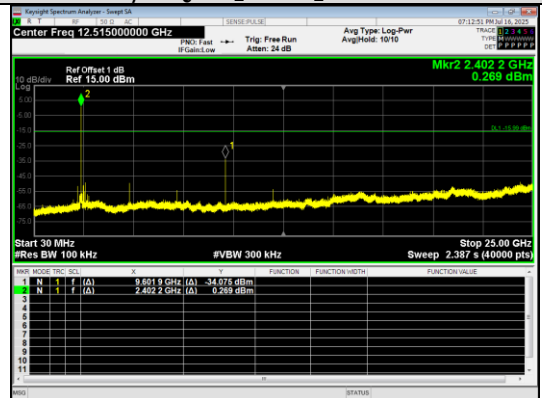
Out Of Band Emission
GFSK_DH5_Channel 0



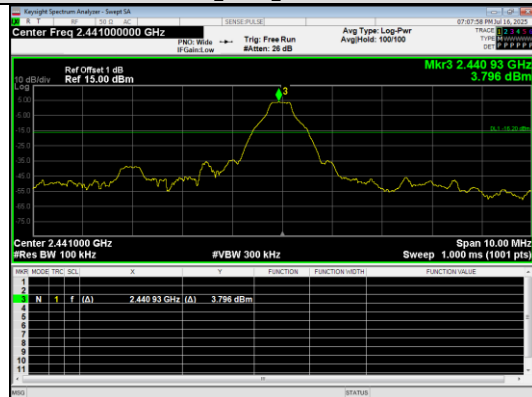
Out Of Band Emission
 $\pi/4$ DQPSK_2-DH5_Channel 0



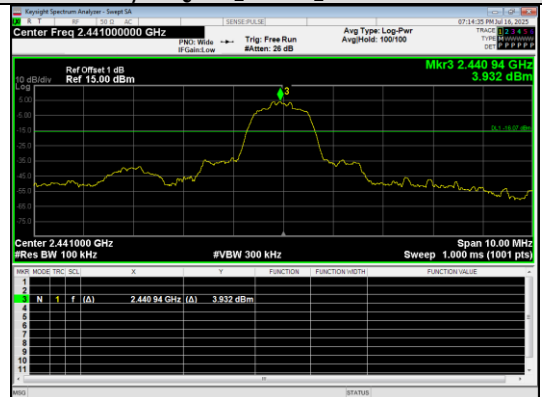
30.0 MHz - 25000.0 MHz
GFSK_DH5_Channel 0



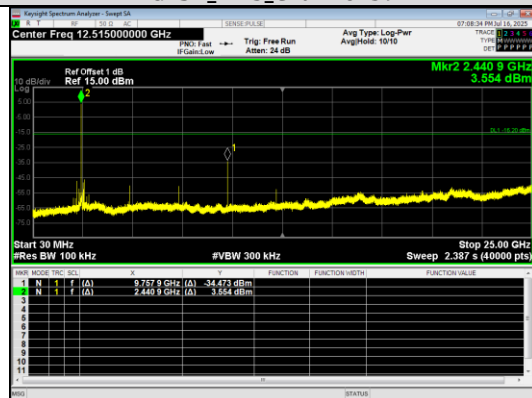
30.0 MHz - 25000.0 MHz
 $\pi/4$ DQPSK_2-DH5_Channel 0



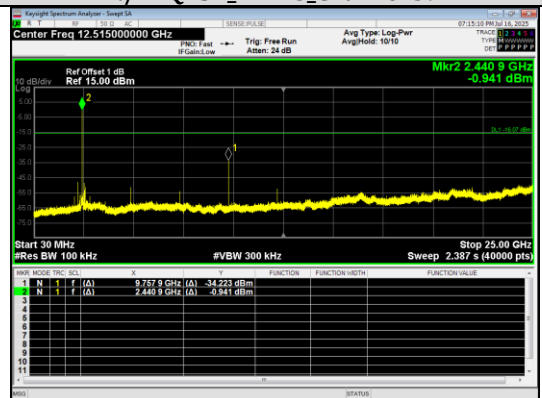
Out Of Band Emission
GFSK_DH5_Channel 39



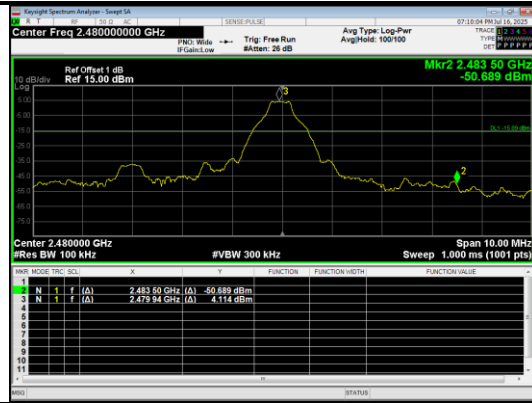
Out Of Band Emission
 $\pi/4$ DQPSK_2-DH5_Channel 39



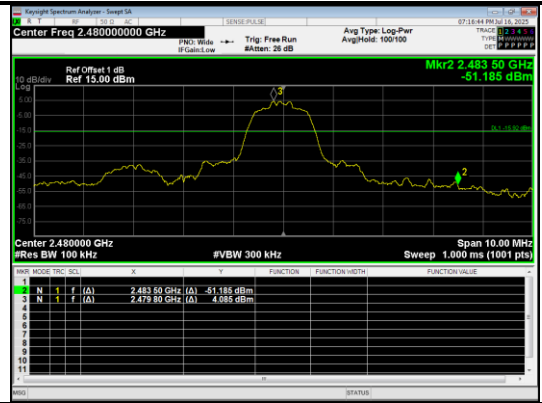
30.0 MHz - 25000.0 MHz
GFSK_DH5_Channel 39



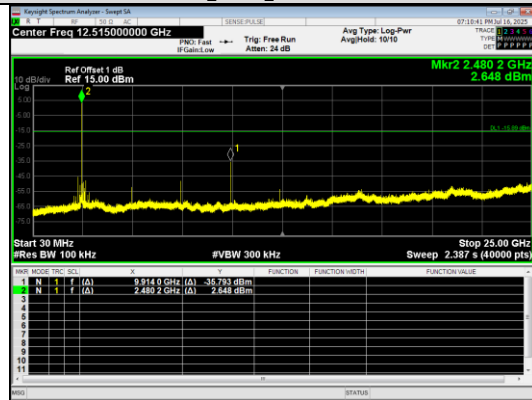
30.0 MHz - 25000.0 MHz
 $\pi/4$ DQPSK_2-DH5_Channel 39



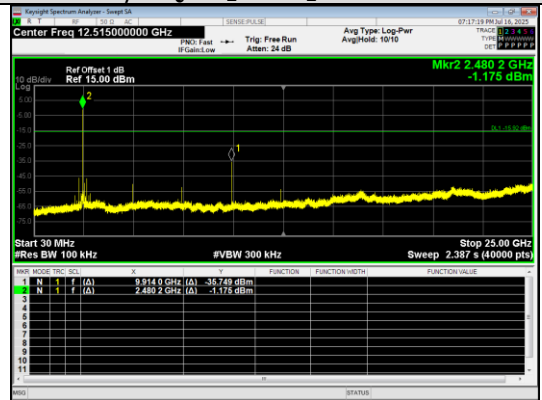
Out Of Band Emission
GFSK_DH5_Channel 78



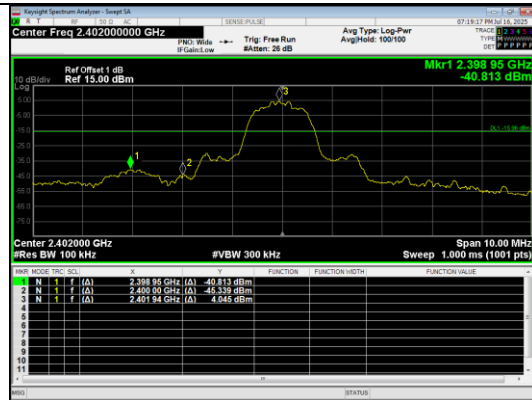
Out Of Band Emission
 $\pi/4$ DQPSK_2-DH5_Channel 78



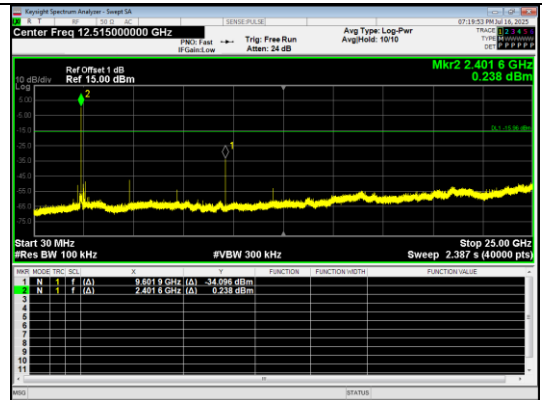
30.0 MHz - 25000.0 MHz
GFSK_DH5_Channel 78



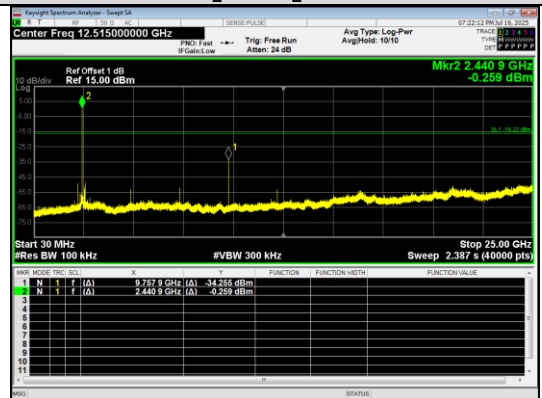
30.0 MHz - 25000.0 MHz
 $\pi/4$ DQPSK_2-DH5_Channel 78



Out Of Band Emission
8DPSK_3-DH5_Channel 0



30.0 MHz - 25000.0 MHz
8DPSK_3-DH5_Channel 0

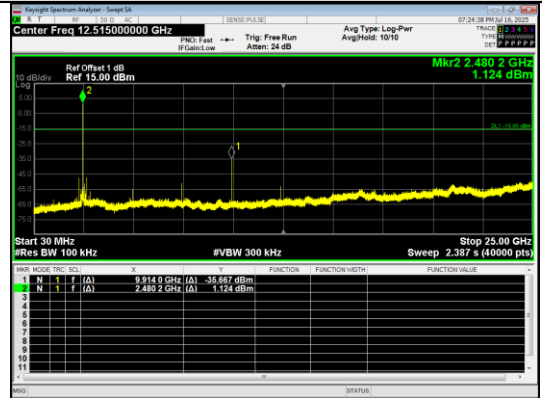


Out Of Band Emission 8DPSK_3-DH5_Channel 39

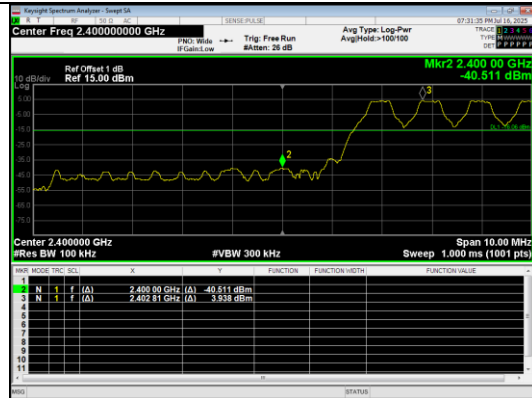


Out Of Band Emission 8DPSK_3-DH5_Channel 78

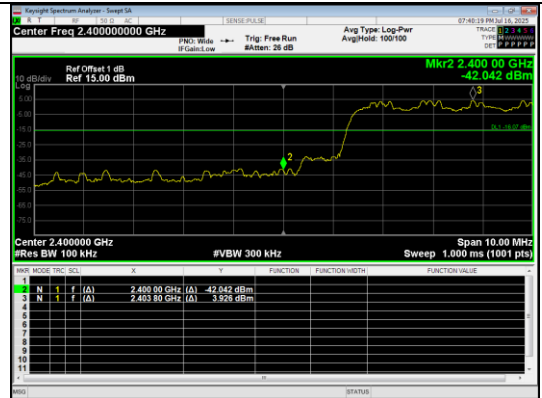
30.0 MHz - 25000.0 MHz 8DPSK_3-DH5_Channel 39



30.0 MHz - 25000.0 MHz 8DPSK_3-DH5_Channel 78



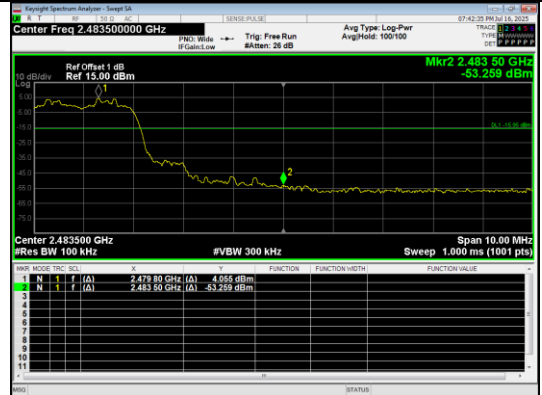
Out Of Band Emission(Left) GFSK_DH5_Channel Hopping



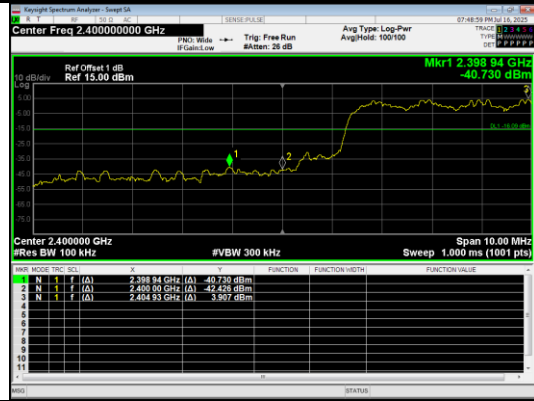
Out Of Band Emission(Left) $\pi/4$ DQPSK_2-DH5_Channel Hopping



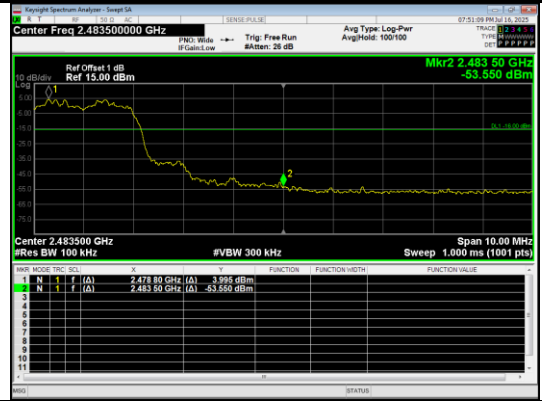
Out Of Band Emission(Right) GFSK_DH5_Channel Hopping



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 *****