



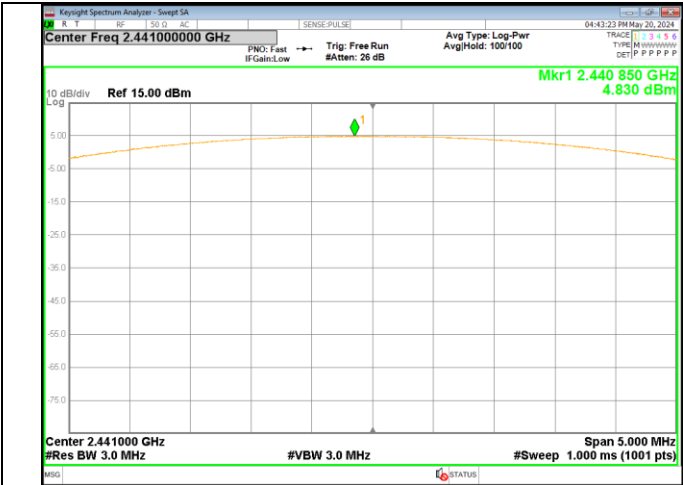
Conducted Output Power

Test Result

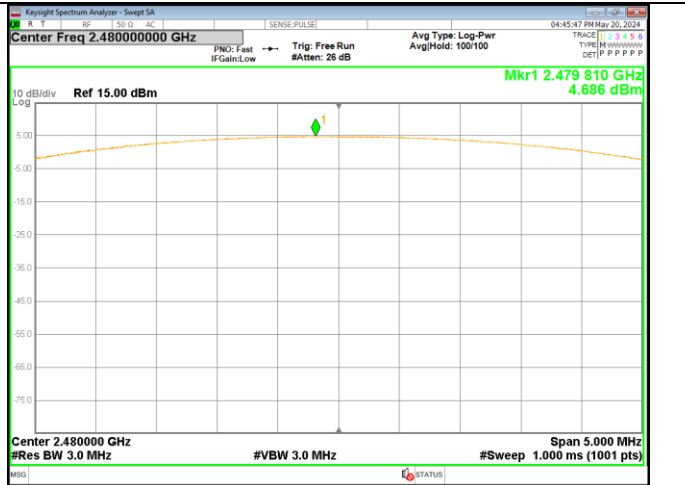
Modulation	Packet Type	Channel	Peak Output Power (dBm)	Peak Output Power (mW)	Max. Avg. Power (dBm)	Limit (dBm)	Result
GFSK	DH5	0	3.790	2.393	None	30	PASS
		39	4.261	2.667	None		PASS
		78	4.267	2.671	None		PASS
$\pi/4$ DQPSK	2-DH5	0	4.485	2.809	None	20.97	PASS
		39	4.830	3.041	None		PASS
		78	4.686	2.942	None		PASS
8DPSK	3-DH5	0	4.770	2.999	None	20.97	PASS
		39	5.039	3.191	None		PASS
		78	4.838	3.046	None		PASS

Test Graphs





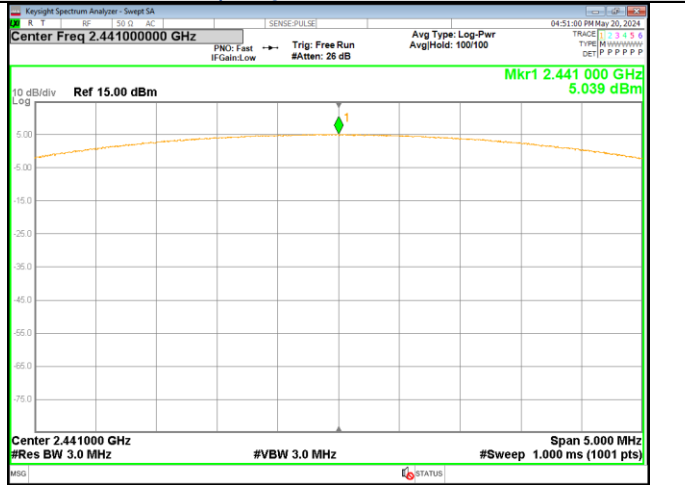
Peak Output Power
 $\pi/4$ DQPSK_Channel 39



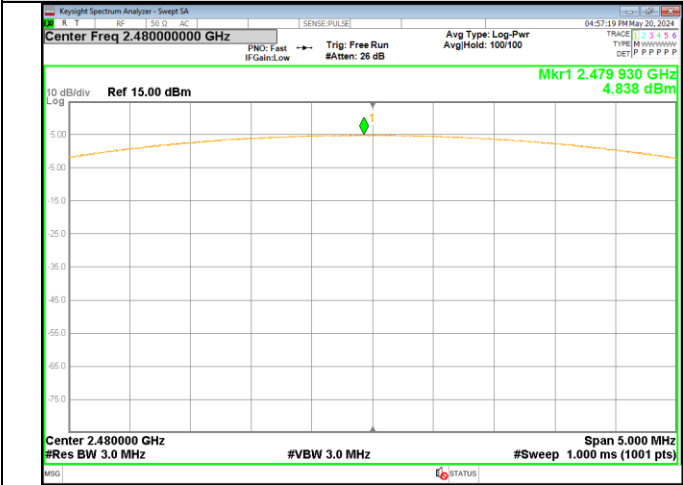
Peak Output Power
 $\pi/4$ DQPSK_Channel 78



Peak Output Power
8DPSK_Channel 0



Peak Output Power
8DPSK_Channel 39



Peak Output Power
8DPSK_Channel 78

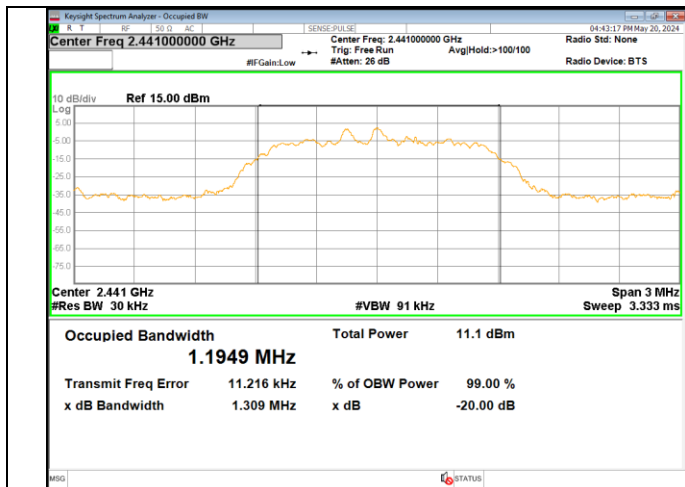
20dB Bandwidth

Test Result

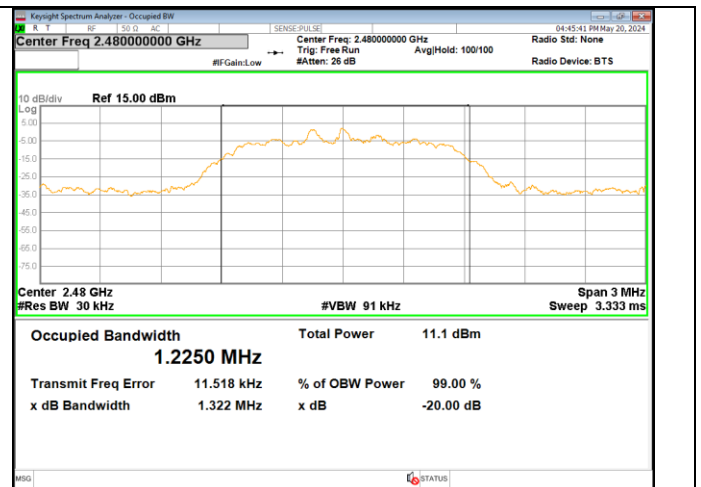
Modulation	Channel	Center Frequency (MHz)	20 dB Bandwidth (MHz)
GFSK	0	2402 MHz	0.9479
	39	2441 MHz	0.9521
	78	2480 MHz	0.9510
$\pi/4$ DQPSK	0	2402 MHz	1.316
	39	2441 MHz	1.309
	78	2480 MHz	1.322
8DPSK	0	2402 MHz	1.304
	39	2441 MHz	1.298
	78	2480 MHz	1.318

Test Graphs

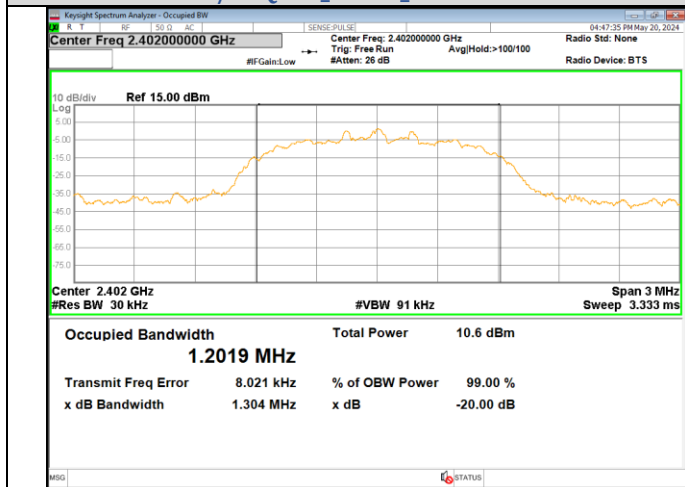




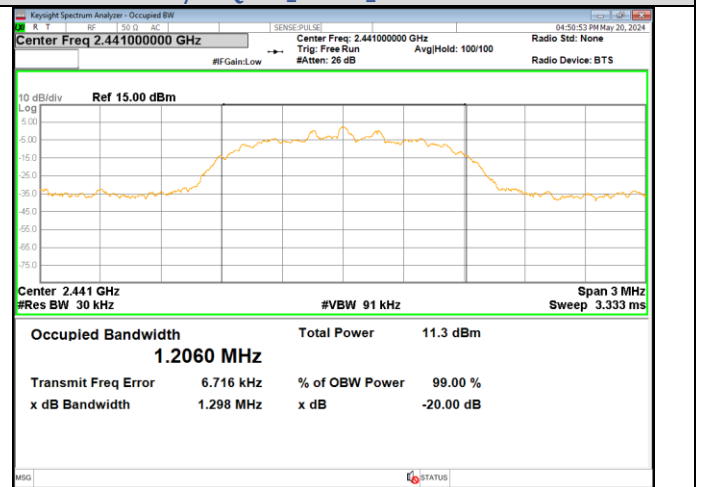
$\pi/4$ DQPSK_2-DH5_Channel 39



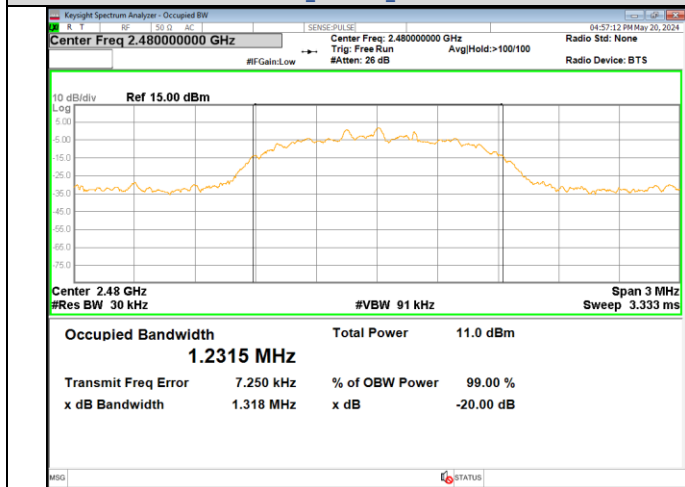
$\pi/4$ DQPSK_2-DH5_Channel 78



8DPSK_3-DH5_Channel 0



8DPSK_3-DH5_Channel 39



8DPSK_3-DH5_Channel 78

Carrier Frequencies Separation

Test Result

Modulation	Packet	Left Center frequency (MHz)	Right Center frequency (MHz)	Hopping Frequency Separation (MHz)	Limit (MHz)	Result
GFSK	DH5	2440.0027	2441.0042	1.0015	0.634	PASS
$\pi/4$ DQPSK	2-DH5	2439.8506	2440.8554	1.0048	0.881	PASS
8DPSK	3-DH5	2440.1833	2440.8461	1	0.879	PASS

Test Graphs



Conducted Out Of Band Emission

Test Result

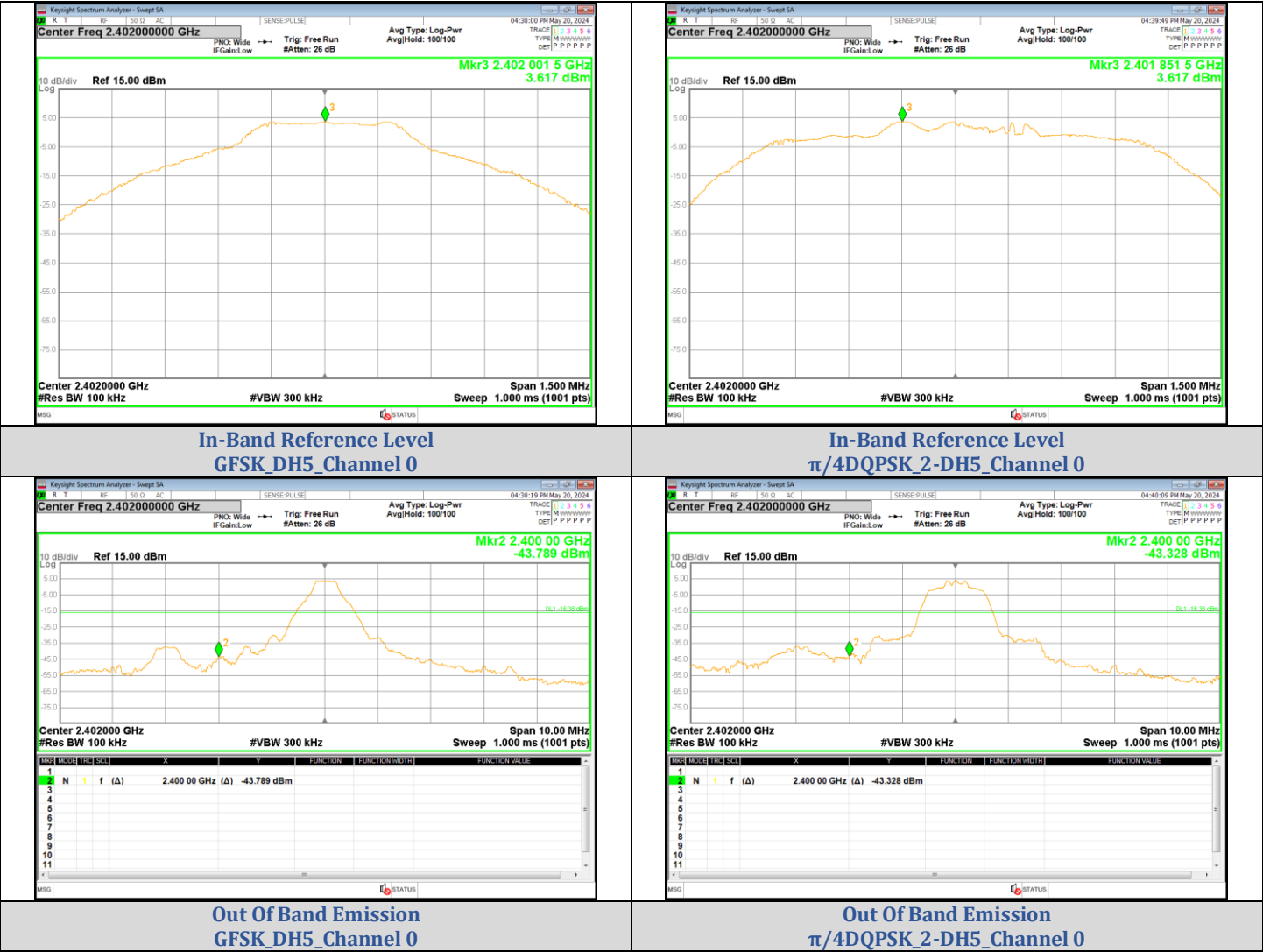
Non-Hopping

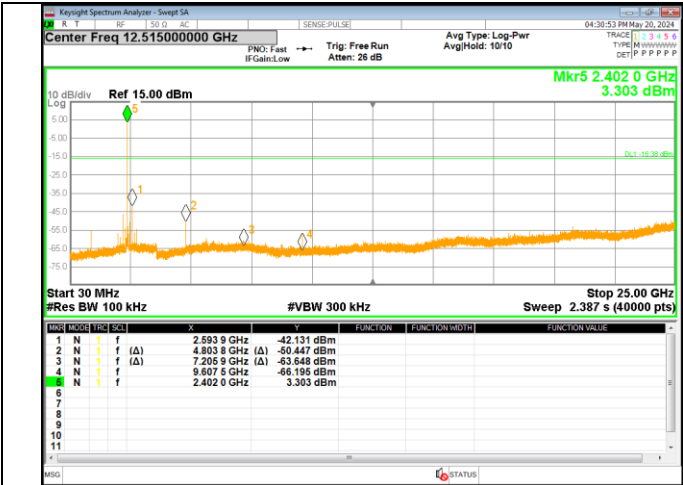
Modulation	Packet	Channel	OOB Emission Frequency (MHz)	OOB Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result
GFSK	DH5	0	2399.00	-37.556	-16.38	-21.177	PASS
			2400.00	-43.789	-16.38	-27.409	PASS
			2593.90	-42.131	-16.38	-25.751	PASS
			4803.80	-50.447	-16.38	-34.067	PASS
			7205.90	-63.648	-16.38	-47.268	PASS
			9607.50	-66.195	-16.38	-49.816	PASS
		39	2633.19	-44.000	-15.89	-28.110	PASS
			4881.79	-47.934	-15.89	-32.044	PASS
			7323.30	-61.207	-15.89	-45.317	PASS
			9764.80	-65.086	-15.89	-49.196	PASS
		78	2287.97	-43.755	-15.87	-27.885	PASS
			2483.50	-43.901	-15.87	-28.031	PASS
			4960.45	-46.490	-15.87	-30.620	PASS
			7439.41	-60.985	-15.87	-45.115	PASS
			9920.24	-63.185	-15.87	-47.315	PASS
$\pi/4$ DQPSK	2-DH5	0	2399.00	-37.269	-16.38	-20.889	PASS
			2400.00	-43.328	-16.38	-26.948	PASS
			2594.50	-43.461	-16.38	-27.081	PASS
			4803.80	-55.424	-16.38	-39.044	PASS
			7205.30	-64.346	-16.38	-47.966	PASS
			9608.70	-64.919	-16.38	-48.539	PASS
		39	2632.56	-46.973	-15.81	-31.163	PASS
			4881.79	-53.376	-15.81	-37.566	PASS
			7323.30	-62.522	-15.81	-46.712	PASS
			9763.55	-65.409	-15.81	-49.599	PASS
		78	2483.50	-44.452	-15.84	-28.612	PASS
			2671.89	-46.704	-15.84	-30.864	PASS
			4959.83	-52.196	-15.84	-36.356	PASS
			7440.03	-63.095	-15.84	-47.255	PASS
			9920.24	-61.455	-15.84	-45.615	PASS
8DPSK	3-DH5	0	2399.00	-37.690	-16.44	-21.250	PASS
			2400.00	-44.297	-16.44	-27.857	PASS
			2593.90	-43.756	-16.44	-27.316	PASS
			4803.80	-54.603	-16.44	-38.163	PASS
			7206.60	-62.652	-16.44	-46.212	PASS
			9608.10	-66.711	-16.44	-50.271	PASS
		39	2633.19	-46.310	-15.89	-30.420	PASS
			4881.79	-48.306	-15.89	-32.416	PASS
			7323.30	-62.444	-15.89	-46.554	PASS
			9764.80	-66.029	-15.89	-50.139	PASS
		78	2483.50	-43.969	-15.91	-28.059	PASS
			4959.83	-46.352	-15.91	-30.442	PASS
			7439.41	-64.111	-15.91	-48.201	PASS
			9919.62	-65.441	-15.91	-49.531	PASS

Hopping

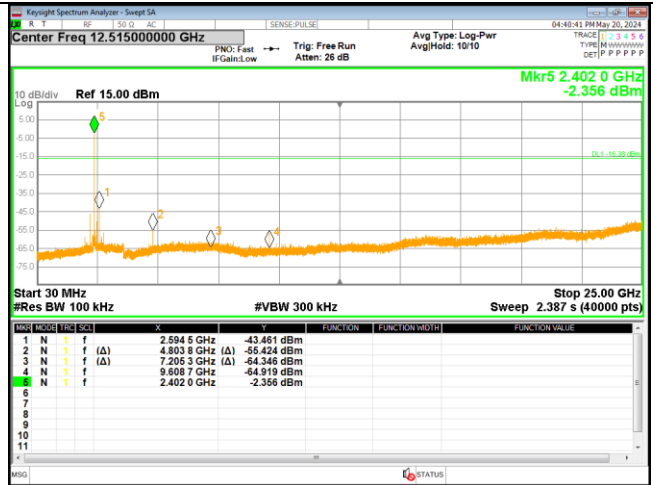
Modulation	Packet	Channel	OOB Emission Frequency (MHz)	OOB Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result
GFSK	DH5	Hopping	2400.00	-61.084	-20.12	-40.964	PASS
			2483.50	-61.403	-17.35	-44.053	PASS
$\pi/4$ DQPSK	2-DH5		2400.00	-39.288	-16.22	-23.068	PASS
			2483.50	-45.341	-15.86	-29.481	PASS
8DPSK	3-DH5		2400.00	-39.332	-16.19	-23.142	PASS
			2483.50	-48.278	-15.8	-32.478	PASS

Test Graphs

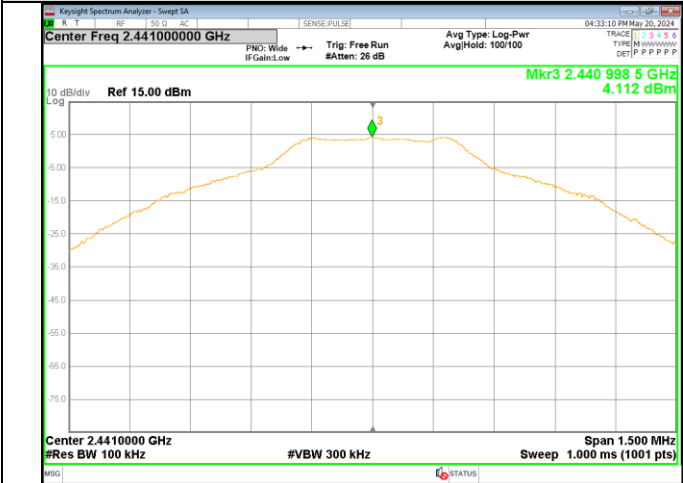




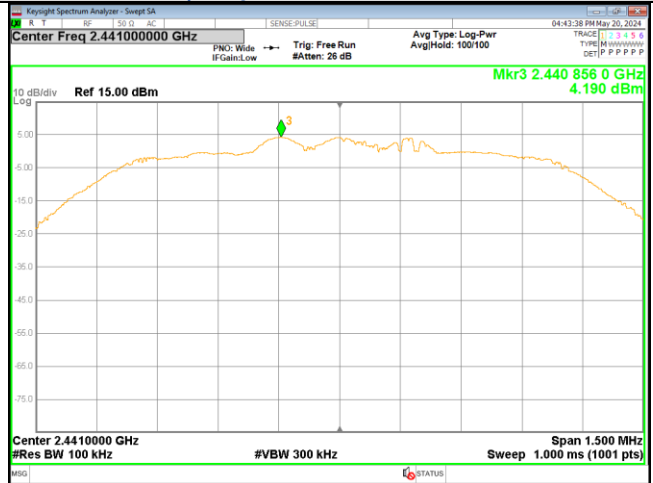
30.0 MHz - 25000.0 MHz
GFSK_DH5_Channel 0



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



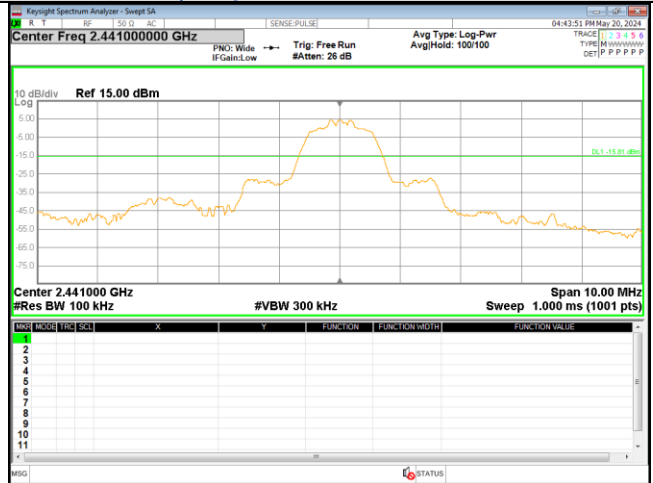
In-Band Reference Level
GFSK_DH5_Channel 39



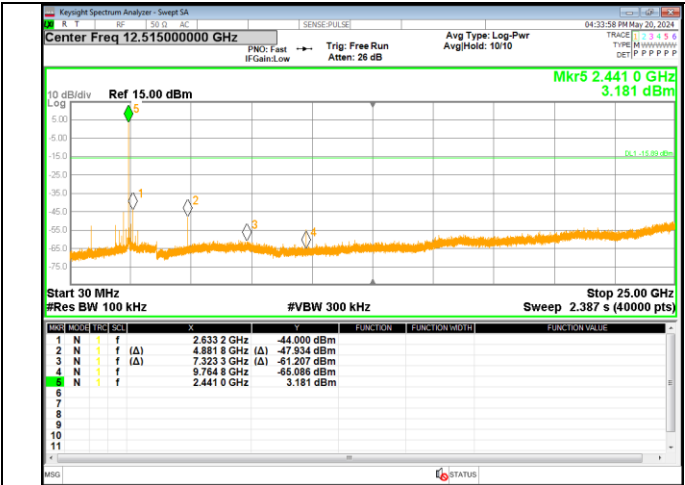
In-Band Reference Level
 $\pi/4$ DQPSK_2-DH5_Channel 39



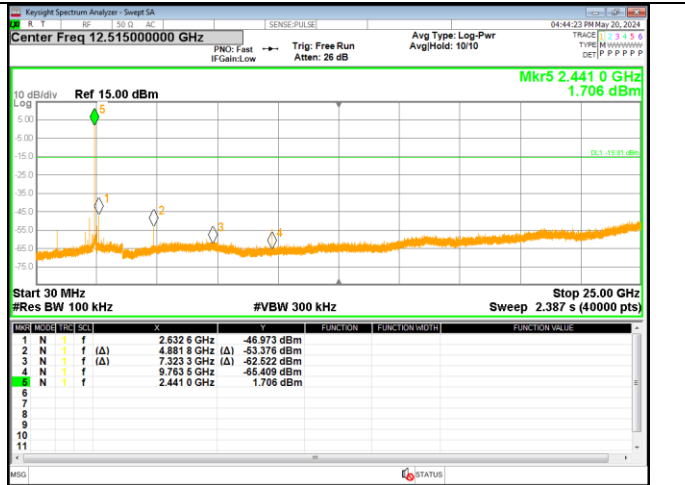
Out Of Band Emission
GFSK_DH5_Channel 39



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



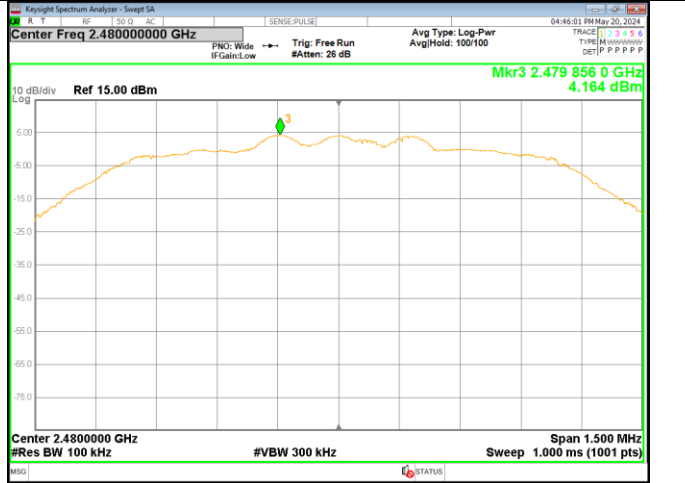
30.0 MHz - 25000.0 MHz
GFSK_DH5_Channel 39



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



In-Band Reference Level
GFSK_DH5_Channel 78



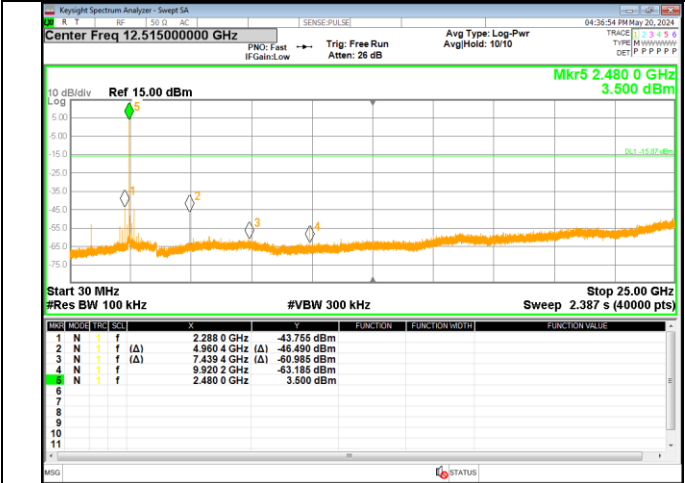
In-Band Reference Level
 $\pi/4$ DQPSK_2-DH5_Channel 78



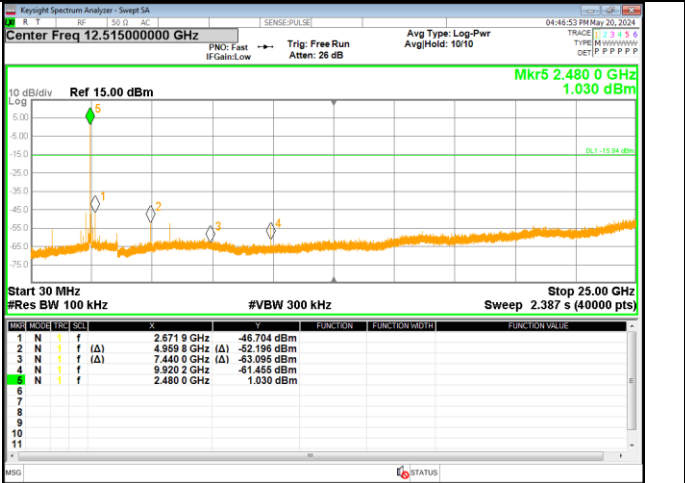
Out Of Band Emission
GFSK_DH5_Channel 78



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



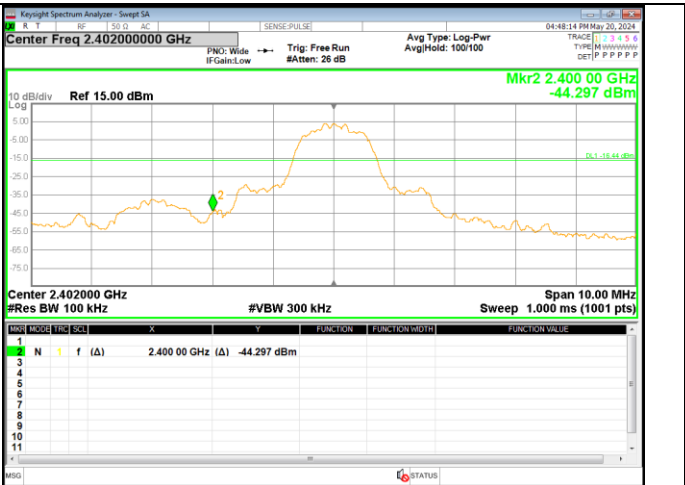
30.0 MHz - 25000.0 MHz
GFSK_DH5_Channel 78



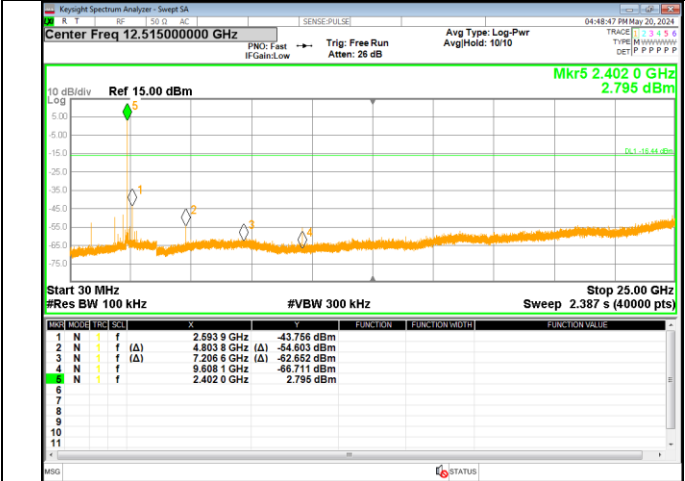
30.0 MHz - 25000.0 MHz
 $\pi/4$ DQPSK_2-DH5_Channel 78



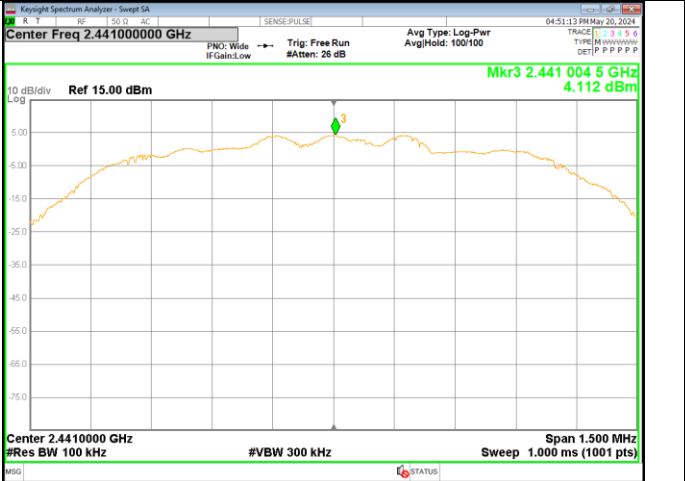
In-Band Reference Level
8DPSK_3-DH5_Channel 0



Out Of Band Emission
8DPSK_3-DH5_Channel 0



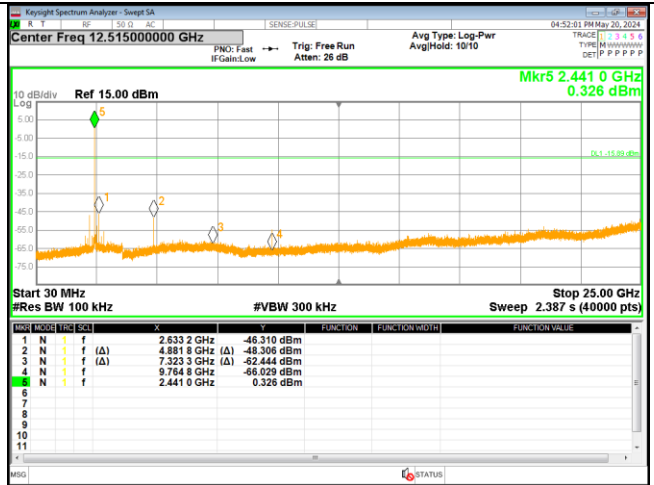
30.0 MHz - 25000.0 MHz
8DPSK_3-DH5_Channel 0



In-Band Reference Level
8DPSK_3-DH5_Channel 39



Out Of Band Emission
8DPSK_3-DH5_Channel 39



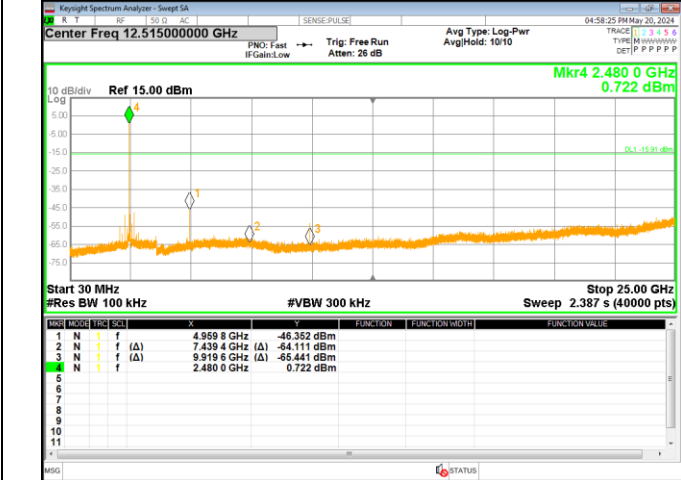
30.0 MHz - 25000.0 MHz
8DPSK_3-DH5_Channel 39



In-Band Reference Level
8DPSK_3-DH5_Channel 78

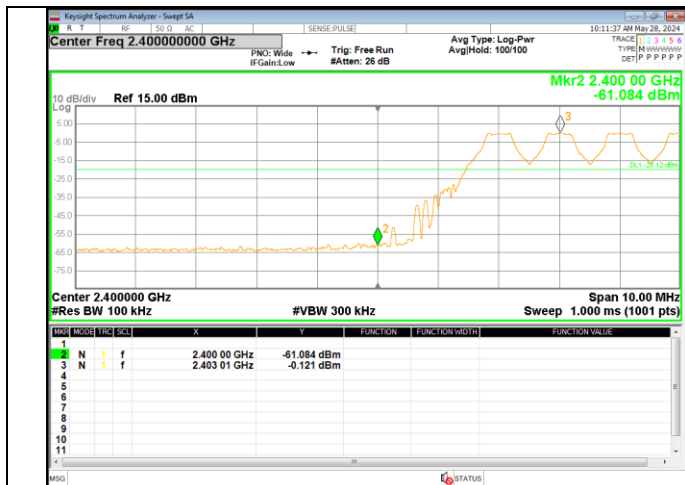


Out Of Band Emission
8DPSK_3-DH5_Channel 78

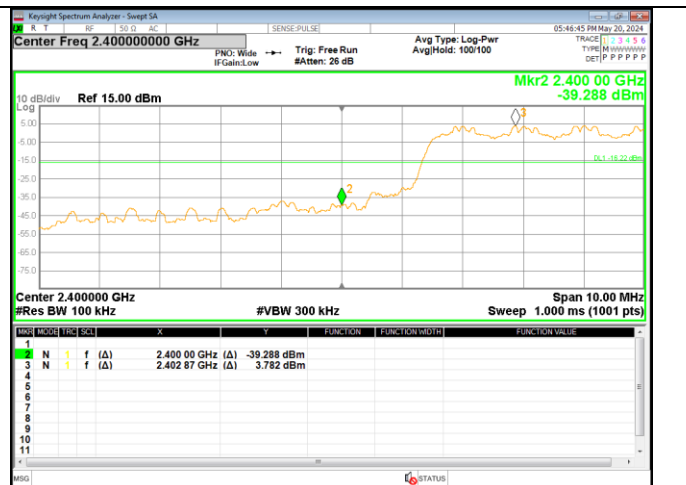


30.0 MHz - 25000.0 MHz
8DPSK_3-DH5_Channel 78

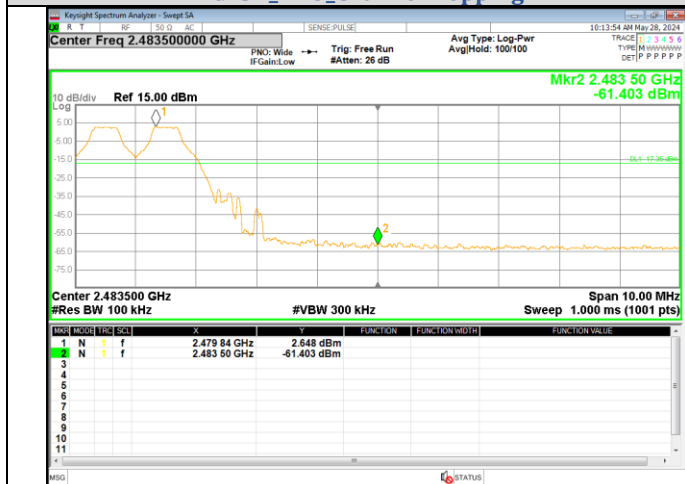




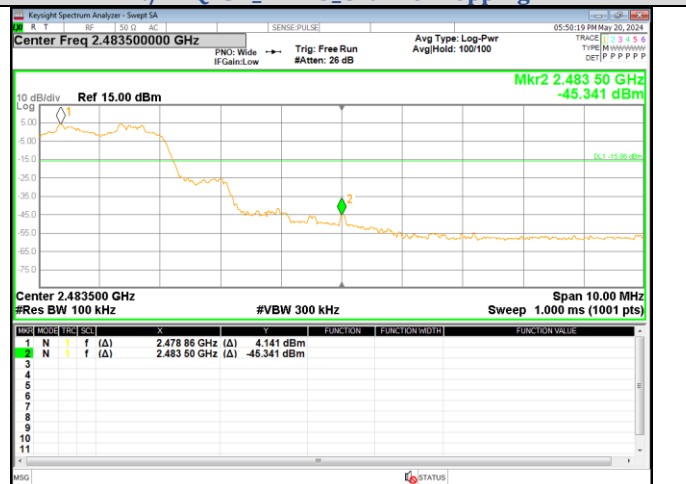
Out Of Band Emission(Left)
GFSK_DH5_Channel Hopping



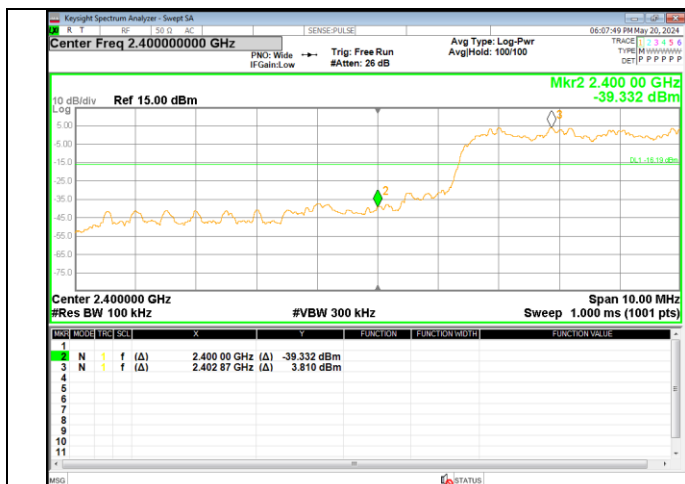
Out Of Band Emission(Left)
 $\pi/4$ DQPSK_2-DH5_Channel Hopping



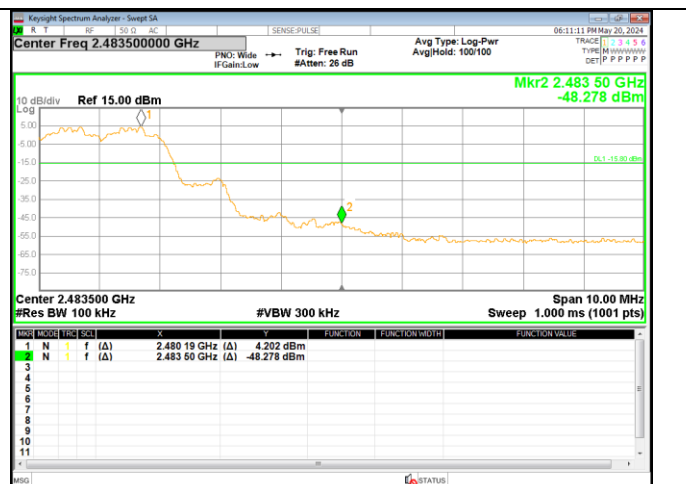
Out Of Band Emission(Right)
GFSK_DH5_Channel Hopping



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



Out Of Band Emission(Left)
8DPSK_3-DH5_Channel Hopping



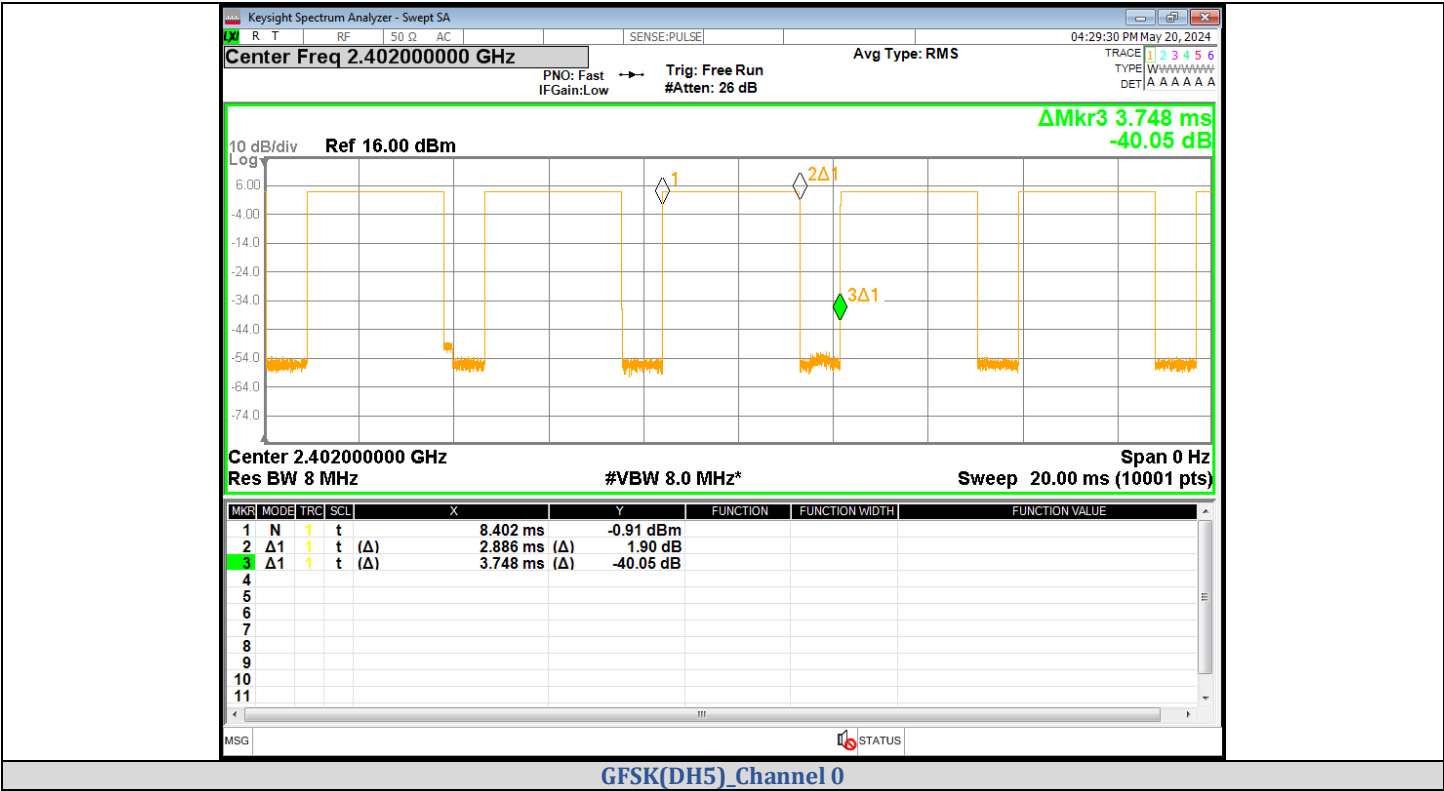
Out Of Band Emission(Right)
8DPSK_3-DH5_Channel Hopping

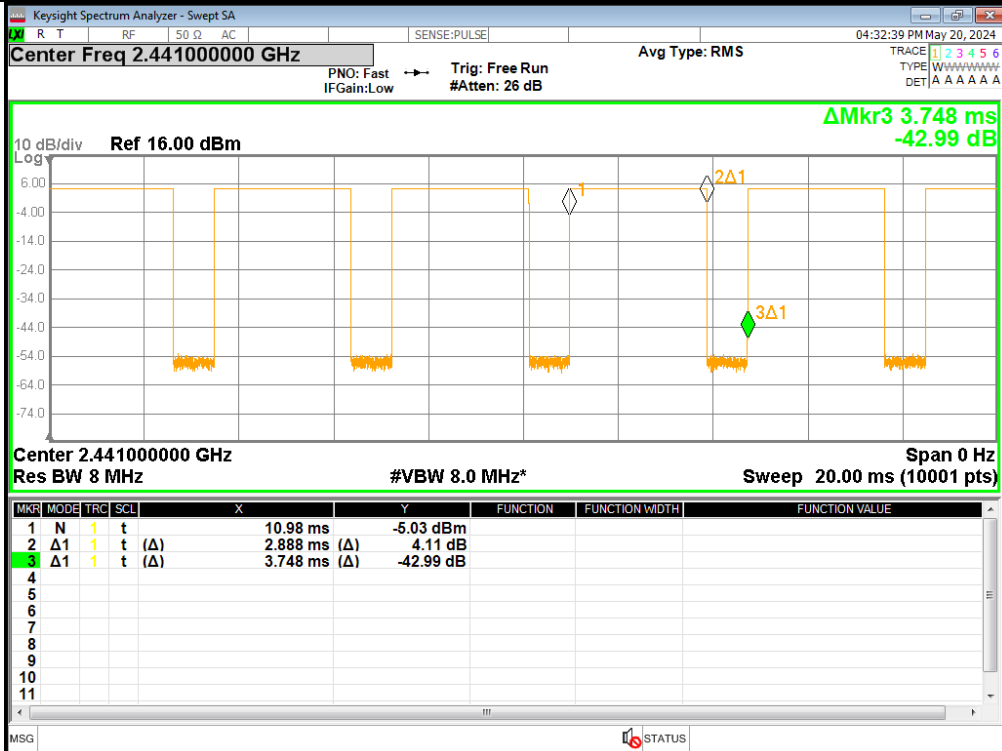
Duty Cycle

Test Result

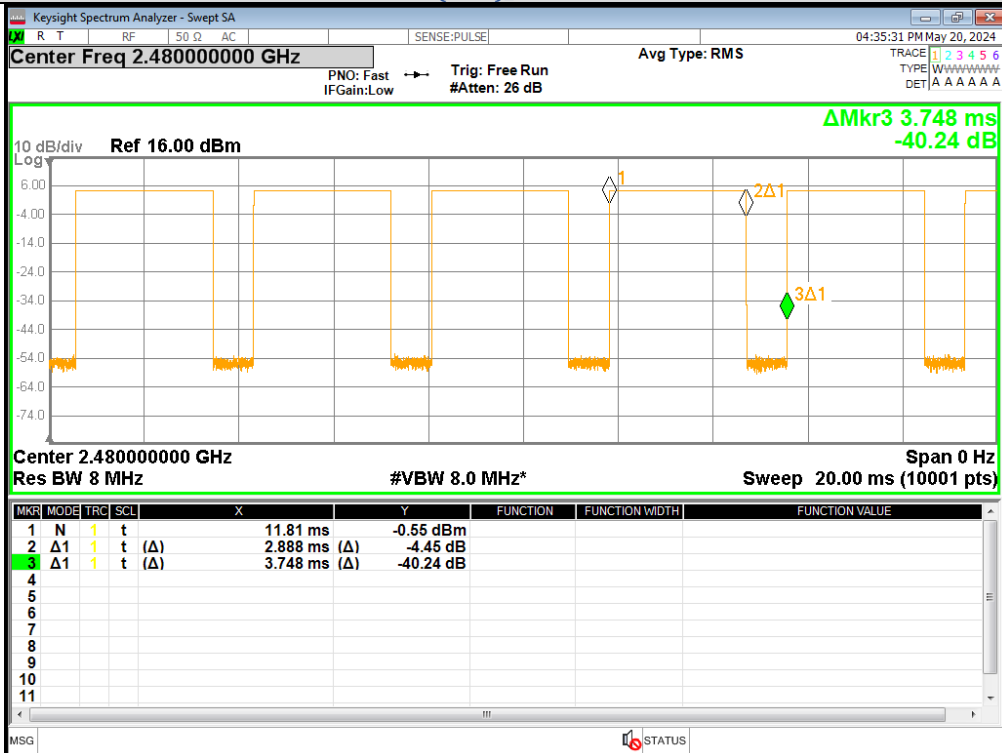
Modulation	Packets	Channel	On Time (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle (linear)	Duty Cycle Factor (dB)
GFSK	DH5	0	2.886	3.748	77.00	0.7700	1.1351
		39	2.888	3.748	77.05	0.7705	1.1323
		78	2.888	3.748	77.05	0.7705	1.1323
$\pi/4$ DQPSK	2-DH5	0	2.890	3.748	77.11	0.7711	1.1289
		39	2.892	3.748	77.16	0.7716	1.1261
		78	2.892	3.748	77.16	0.7716	1.1261
8DPSK	3-DH5	0	2.892	3.748	77.16	0.7716	1.1261
		39	2.894	3.748	77.21	0.7721	1.1233
		78	2.894	3.748	77.21	0.7721	1.1233

Test Graphs

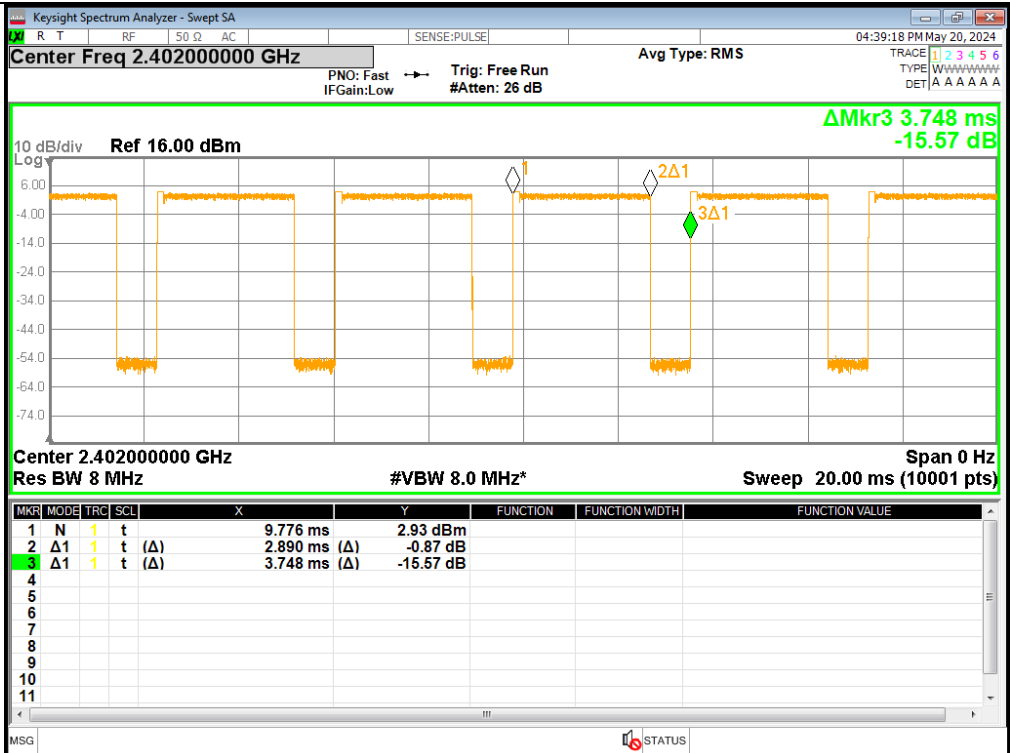




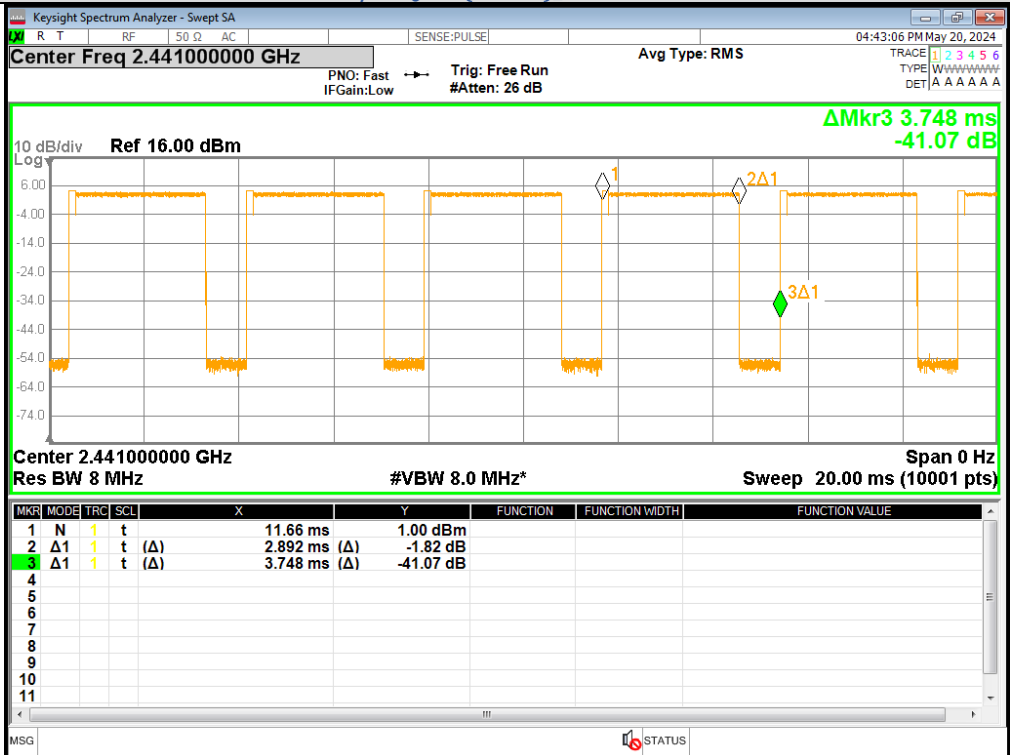
GFSK(DH5)_Channel 39



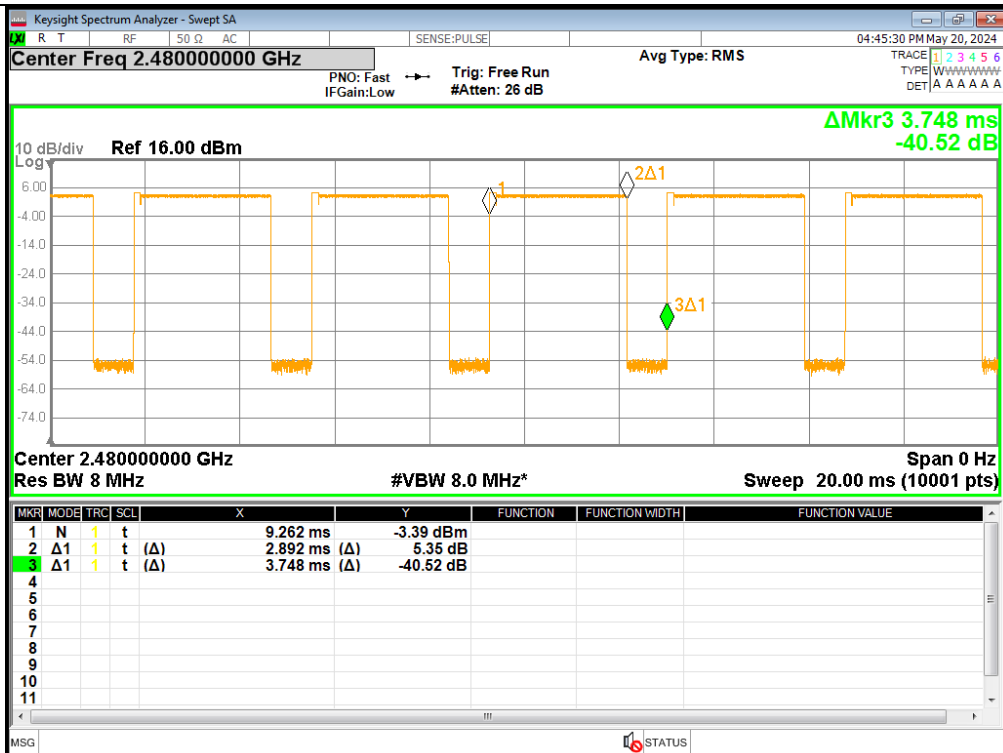
GFSK(DH5)_Channel 78



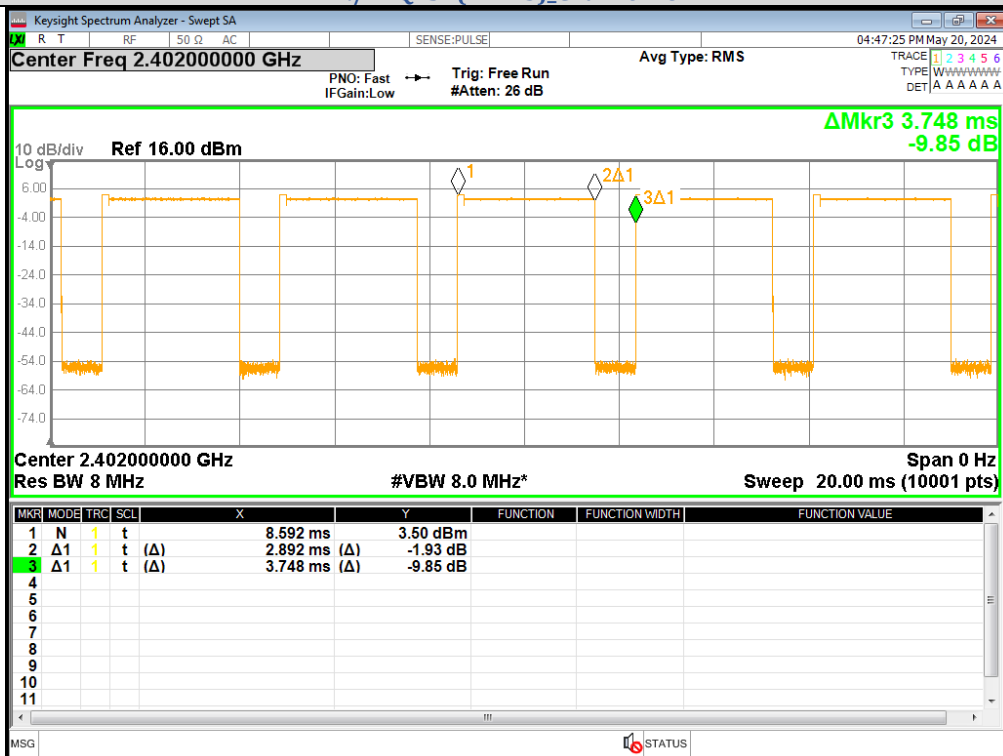
$\pi/4$ DQPSK(2-DH5)_Channel 0



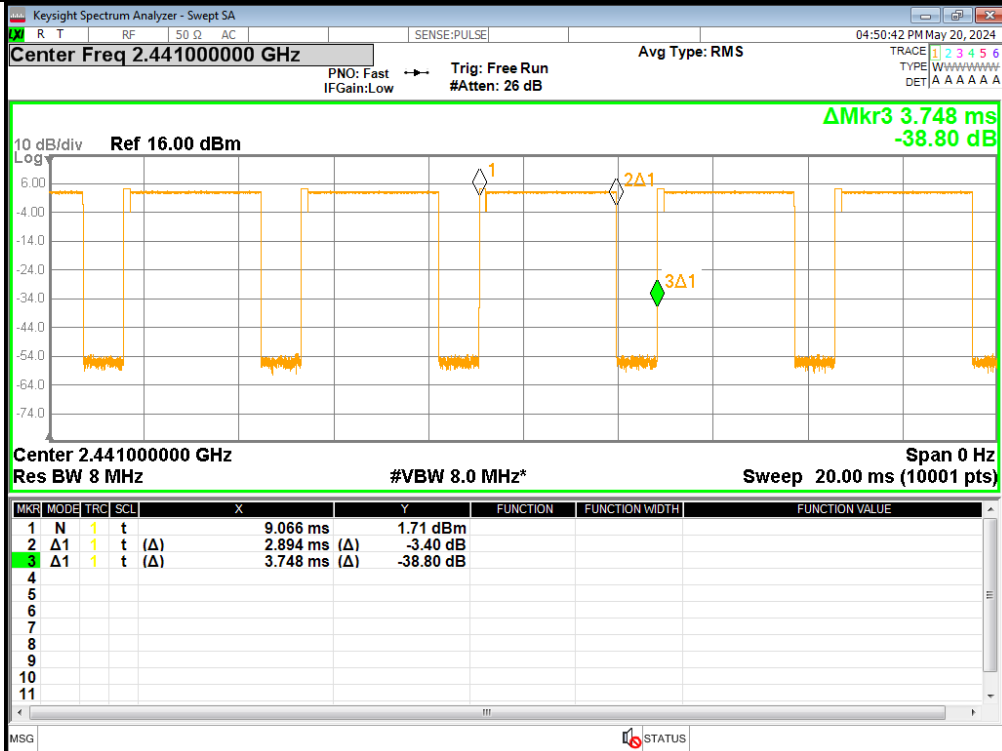
$\pi/4$ DQPSK(2-DH5)_Channel 39



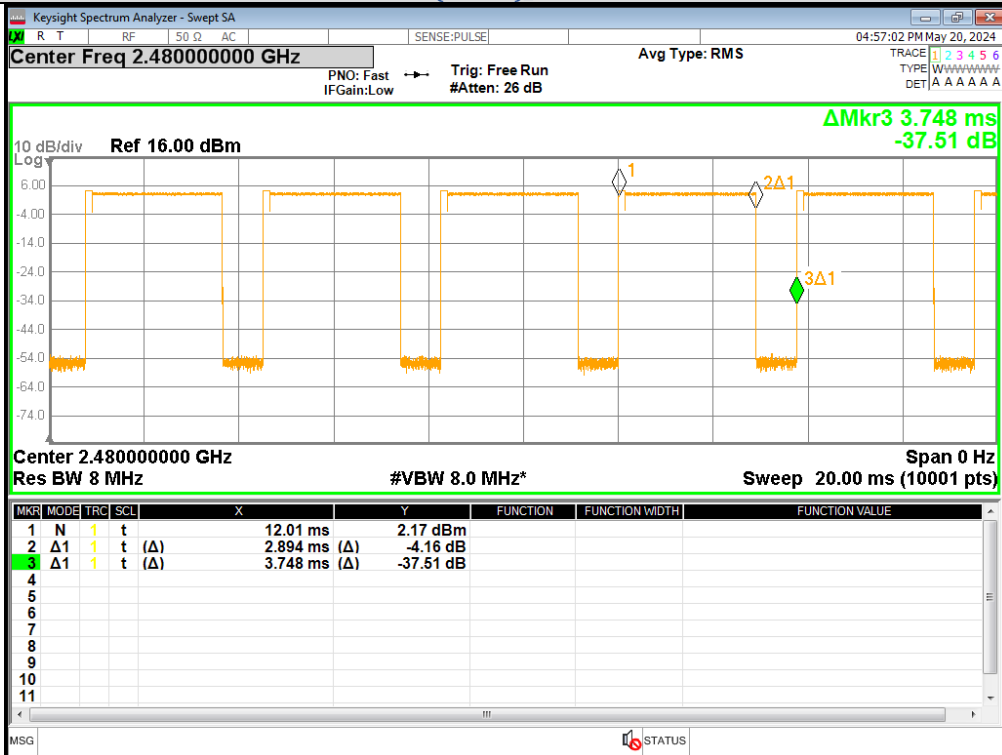
$\pi/4$ DQPSK(2-DH5)_Channel 78



8DPSK(3-DH5)_Channel 0



8DPSK(3-DH5)_Channel 39



8DPSK(3-DH5)_Channel 78

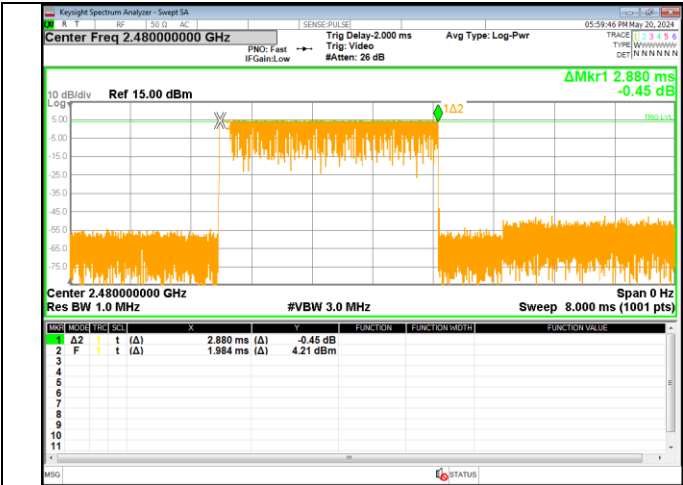
Dwell Time

Test Result

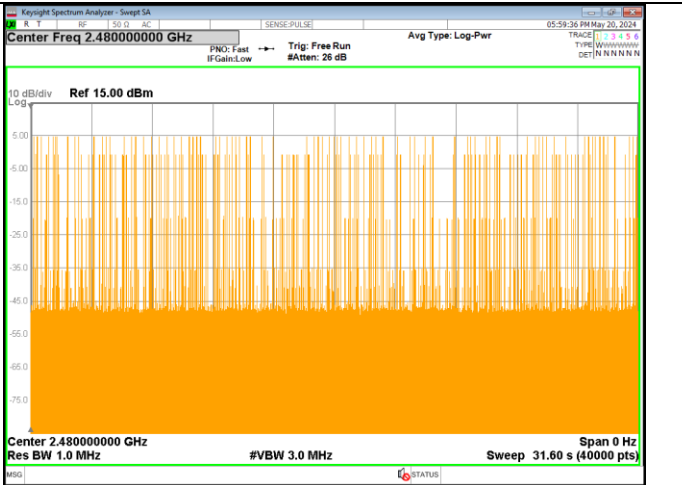
Modulation	Packet	Channel	Pulse Width (ms)	Number of Pulses in 31.6 seconds	Dwell Time (ms)	Limit (ms)	Result
GFSK	DH5	CH78 (2480MHz)	2.872	98	281.46	< 400	PASS
$\pi/4$ DQPSK	2-DH5		2.880	111	319.68		PASS
8DPSK	3-DH5		2.880	91	262.08		PASS

Test Graphs





Pulse Width
8DPSK_3-DH5



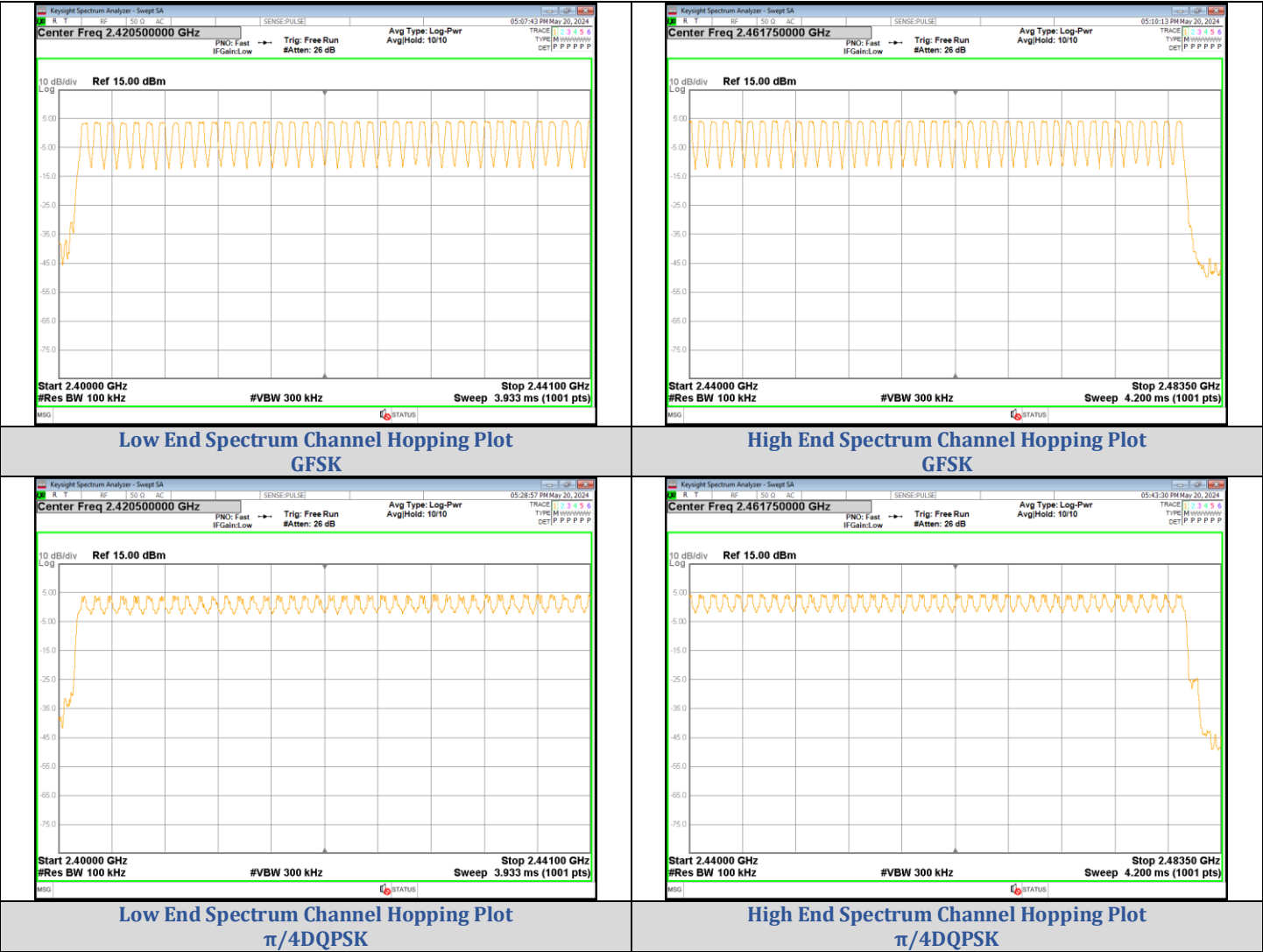
Number of Pulses in 31.6 seconds
8DPSK_3-DH5

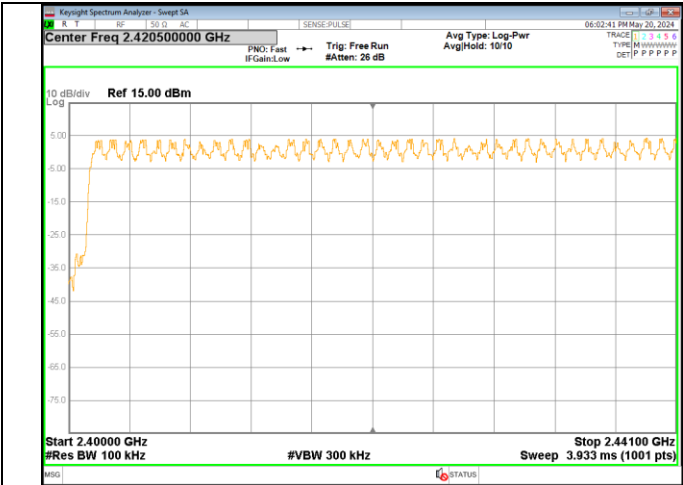
Number Of Hopping Channel

Test Result

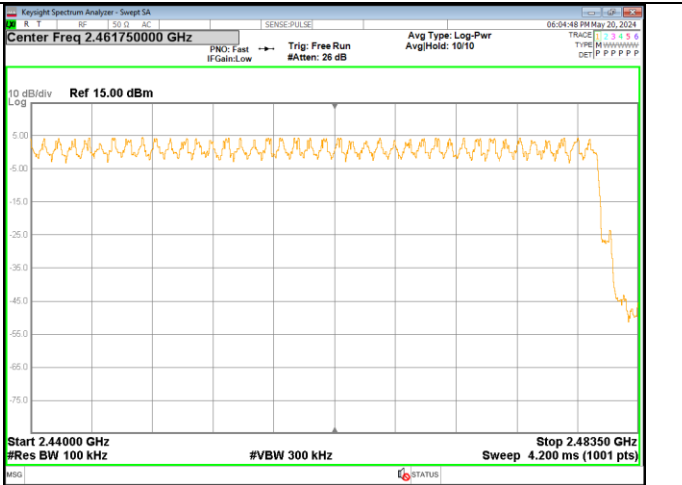
Modulation	Packet	Number of Hopping Channel	Limit	Result
GFSK	DH5	79	15	PASS
$\pi/4$ DQPSK	2-DH5	79	15	PASS
8DPSK	3-DH5	79	15	PASS

Test Graphs





Low End Spectrum Channel Hopping Plot
8DPSK



High End Spectrum Channel Hopping Plot
8DPSK