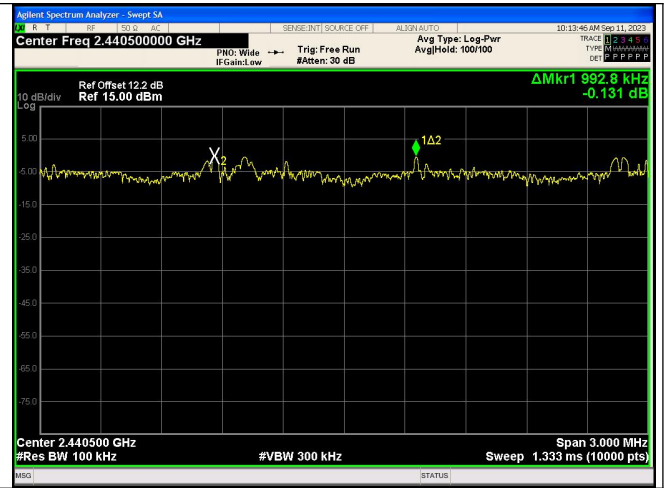




π/4DQPSK



π/4DQPSK



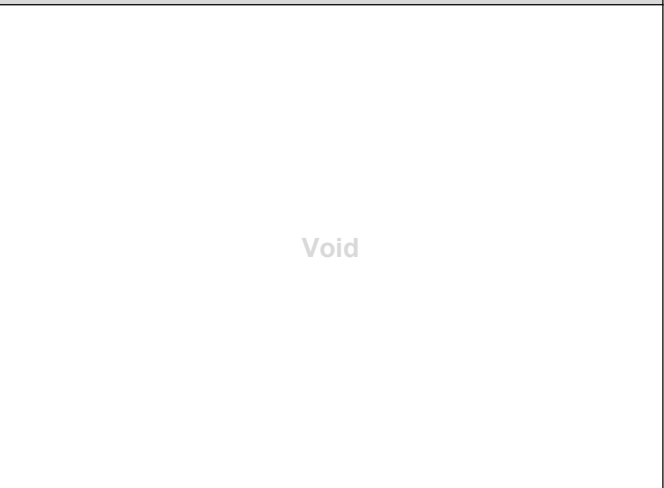
8DPSK



8DPSK



8DPSK



APPENDIX V. Conducted Out Of Band Emission

Test Result
Non-Hopping

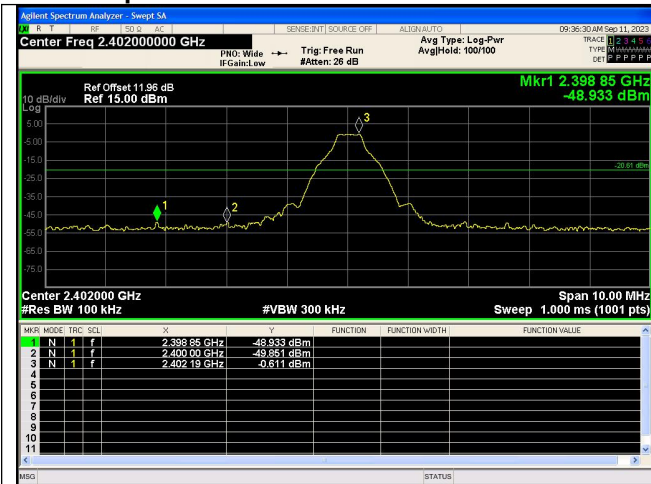
Modulation	Packet	Channel	OOB Emission Frequency (MHz)	OOB Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result		
GFSK	DH5	0	2400.00	-49.851	-20.61	-29.241	PASS		
			2398.85	-48.932	-20.61	-28.322	PASS		
			4803.80	-47.085	-20.61	-26.475	PASS		
			7205.90	-47.150	-20.61	-26.540	PASS		
			9608.10	-44.861	-20.61	-24.251	PASS		
			24954.4	-45.568	-20.61	-24.958	PASS		
		39	4881.79	-47.412	-20.36	-27.052	PASS		
			7323.30	-46.994	-20.36	-26.634	PASS		
			9764.17	-41.923	-20.36	-21.563	PASS		
		78	24954.4	-45.841	-20.36	-25.481	PASS		
			2483.50	-51.381	-20.29	-31.230	PASS		
			4959.83	-48.790	-20.29	-28.500	PASS		
			7440.03	-47.989	-20.29	-27.699	PASS		
			9920.24	-42.696	-20.29	-22.406	PASS		
			24900.1	-46.131	-20.29	-25.841	PASS		
$\pi/4$ DQPSK	2-DH5	0	2400.00	-50.125	-20.61	-29.312	PASS		
			4803.76	-47.242	-20.61	-26.632	PASS		
			7206.56	-50.159	-20.61	-29.549	PASS		
			9608.11	-44.847	-20.61	-24.237	PASS		
			24996.2	-46.019	-20.61	-25.409	PASS		
		39	4881.79	-47.765	-20.35	-27.415	PASS		
			7322.67	-51.483	-20.35	-31.133	PASS		
			9764.17	-42.272	-20.35	-21.922	PASS		
		78	24943.8	-46.082	-20.35	-25.732	PASS		
			2483.50	-51.608	-20.21	-31.331	PASS		
			4959.83	-49.182	-20.21	-28.972	PASS		
			7440.03	-52.574	-20.21	-32.364	PASS		
			9920.24	-42.871	-20.21	-22.661	PASS		
		8DPSK	3-DH5	0	2400.00	-50.677	-20.56	-30.417	PASS
					4803.76	-46.519	-20.56	-25.959	PASS
7205.93	-45.673				-20.56	-25.113	PASS		
9608.11	-45.310				-20.56	-24.750	PASS		
24900.7	-46.071				-20.56	-25.511	PASS		
39	4881.79			-48.836	-20.21	-28.626	PASS		
	7323.30			-48.976	-20.21	-28.766	PASS		
	9764.17			-42.063	-20.21	-21.853	PASS		
	24753.4			-46.418	-20.21	-26.208	PASS		
78	2483.50			-52.161	-20.16	-32.325	PASS		
	4959.83			-47.854	-20.16	-27.694	PASS		
	7440.03			-49.106	-20.16	-28.946	PASS		
	9920.24			-43.188	-20.16	-23.028	PASS		
	24952.6			-45.732	-20.16	-25.572	PASS		

Hopping

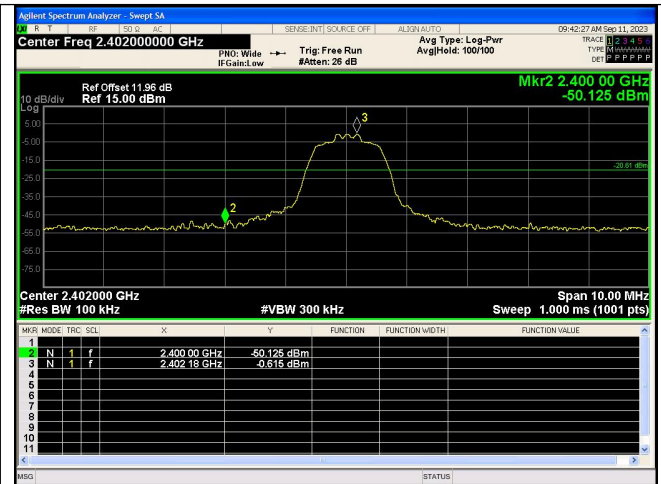
Modulation	Packet	Channel	OOB Emission Frequency (MHz)	OOB Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result
GFSK	DH5	Hopping	2398.51	-41.964	-16.67	-25.294	PASS
			2400.00	-51.712	-16.67	-35.042	PASS
			2483.50	-50.251	-24.87	-25.381	PASS
			2396.09	-48.678	-16.24	-32.438	PASS
			2400.00	-51.568	-16.24	-35.328	PASS
			2483.50	-50.446	-25.47	-24.976	PASS
			2398.78	-47.437	-16.28	-31.157	PASS

π/4DQPSK	2-DH5	2400.00	-51.715	-16.28	-35.435	PASS
		2483.50	-50.093	-25.34	-24.753	PASS
		2397.35	-49.863	-17.17	-32.693	PASS
		2400.00	-50.903	-17.17	-33.733	PASS
		2483.50	-50.615	-26.04	-24.575	PASS
		2398.26	-49.703	-17.05	-32.653	PASS
		2400.00	-51.231	-17.05	-34.181	PASS
		2483.50	-50.912	-25.69	-25.222	PASS
		2397.70	-49.894	-18.14	-31.754	PASS
		2400.00	-51.262	-18.14	-33.122	PASS
8DPSK	3-DH5	2483.50	-50.333	-25.77	-24.563	PASS
		2398.08	-41.188	-18.23	-22.958	PASS
		2400.00	-51.780	-18.23	-33.550	PASS
		2483.50	-51.021	-25.72	-25.301	PASS
		2396.94	-49.992	-16.92	-33.072	PASS
		2400.00	-51.491	-16.92	-34.571	PASS
		2483.50	-50.747	-26.9	-23.847	PASS
		2398.97	-49.673	-17.69	-31.983	PASS
		2400.00	-51.863	-17.69	-34.173	PASS
		2483.50	-50.371	-26.04	-24.331	PASS

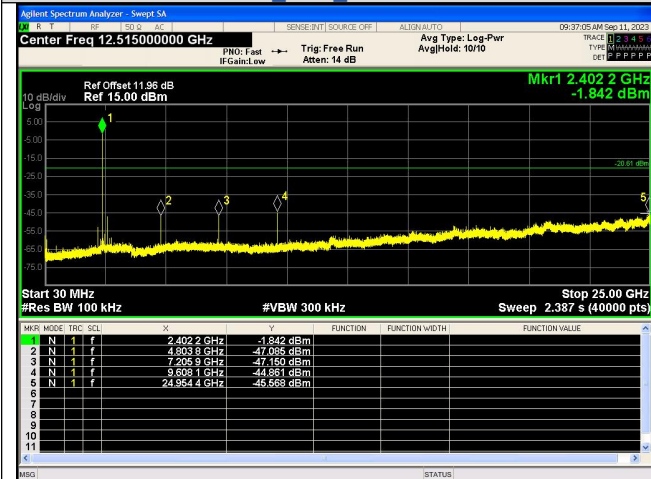
Test Graphs



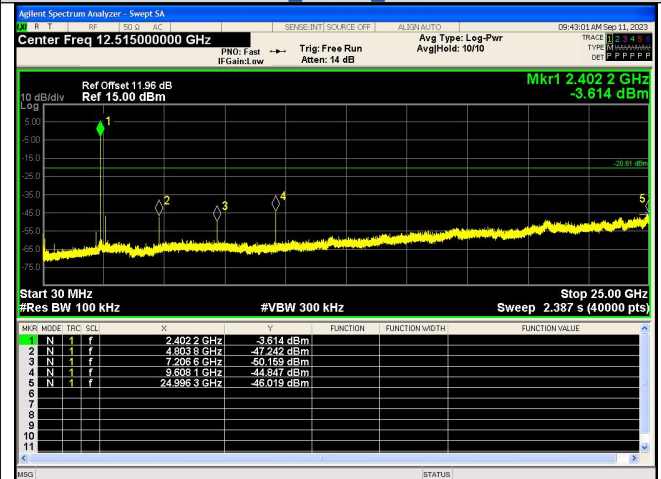
Out of Band Emission GFSK DH5 Channel 0



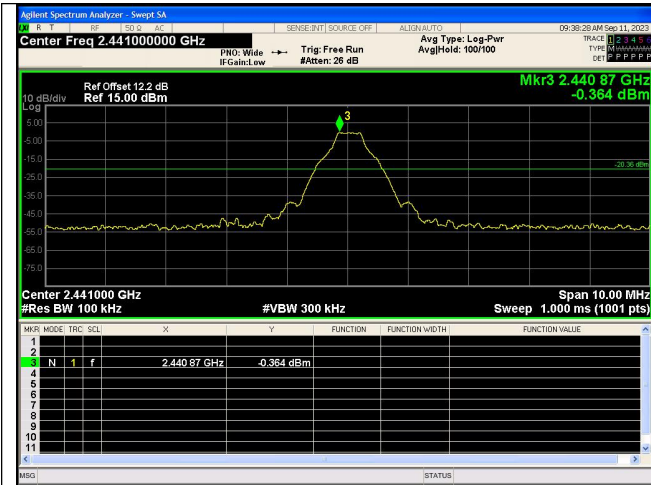
Out of Band Emission π/4DQPSK 2-DH5 Channel 0



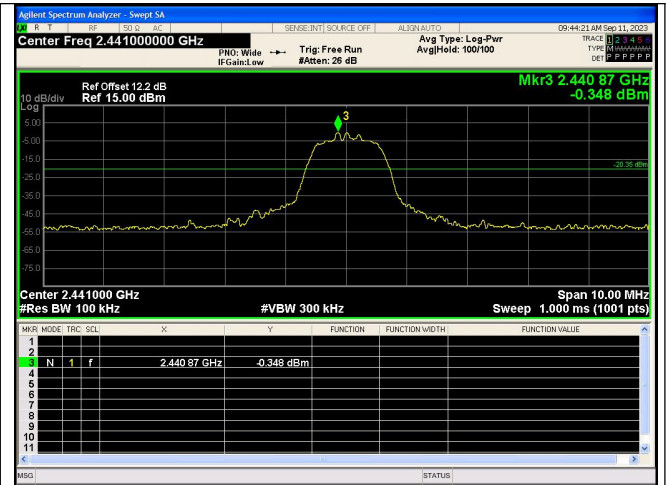
Spurious Emission GFSK DH5 Channel 0



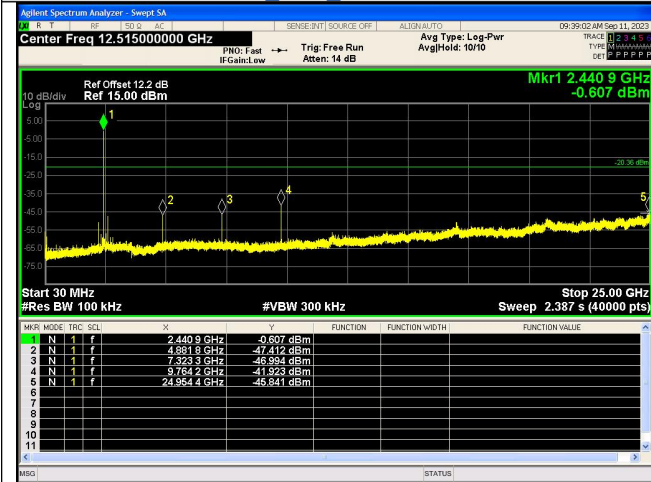
Spurious Emission π/4DQPSK 2-DH5 Channel 0



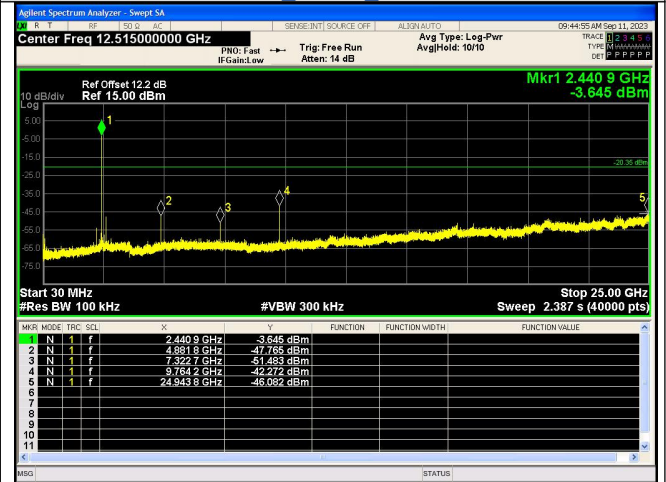
Out Of Band Emission
FSK DH5 Channel 39



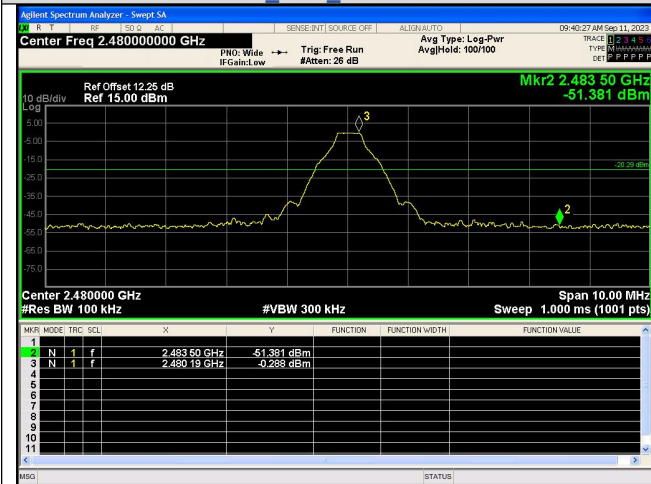
Out Of Band Emission
 $\pi/4$ DQPSK 2-DH5 Channel 39



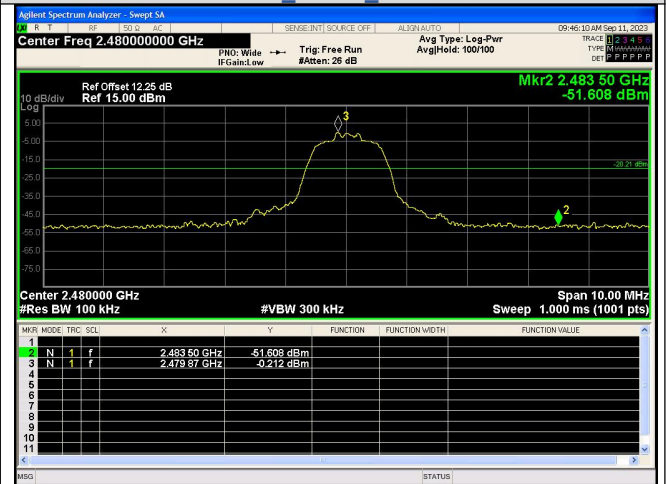
Spurious Emissions
FSK DH5 Channel 39



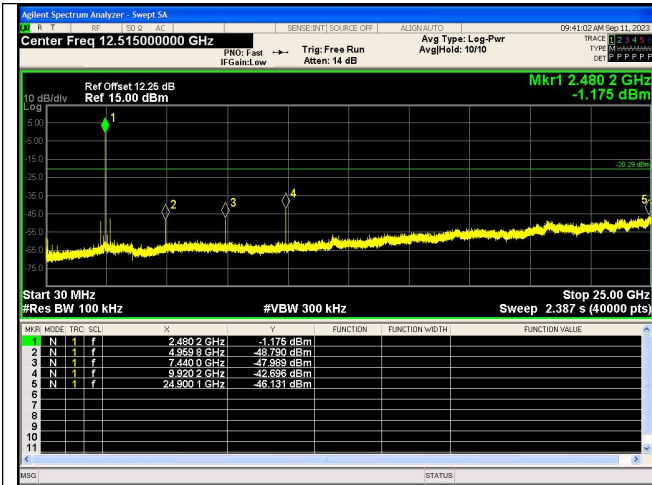
Spurious Emissions
 $\pi/4$ DQPSK 2-DH5 Channel 39



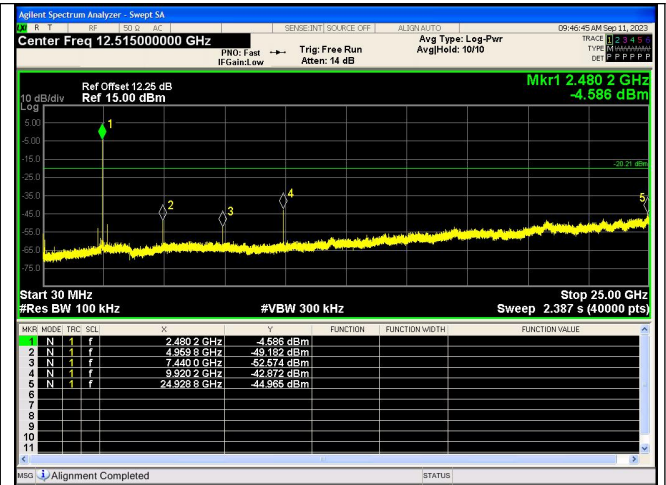
Out Of Band Emission
FSK DH5 Channel 78



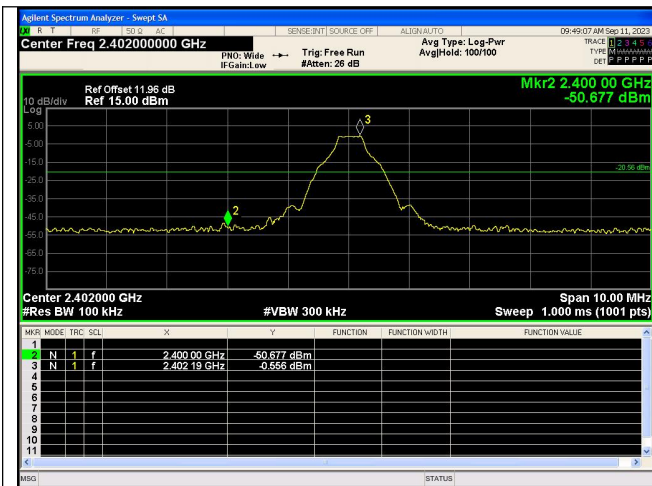
Out Of Band Emission
 $\pi/4$ DQPSK 2-DH5 Channel 78



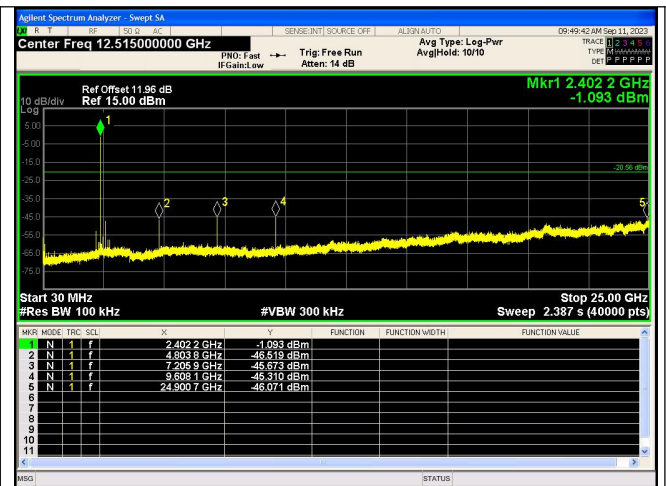
Spurious Emission
GFSK_DH5_Channel 78



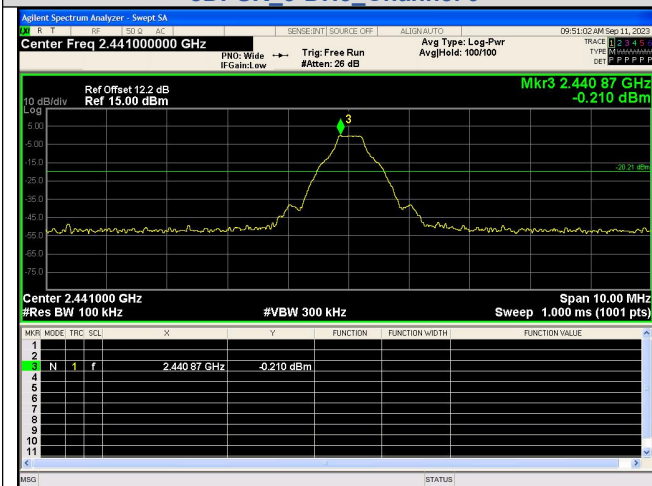
Spurious Emission
 $\pi/4$ DQPSK_2-DH5_Channel 78



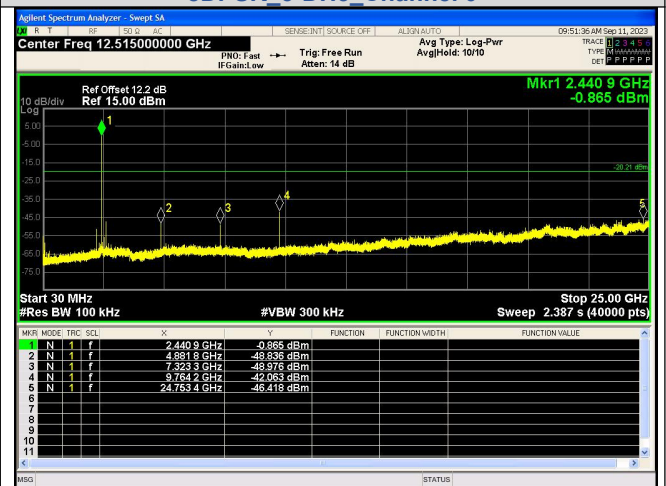
Out Of Band Emission
8DPSK_3-DH5_Channel 0



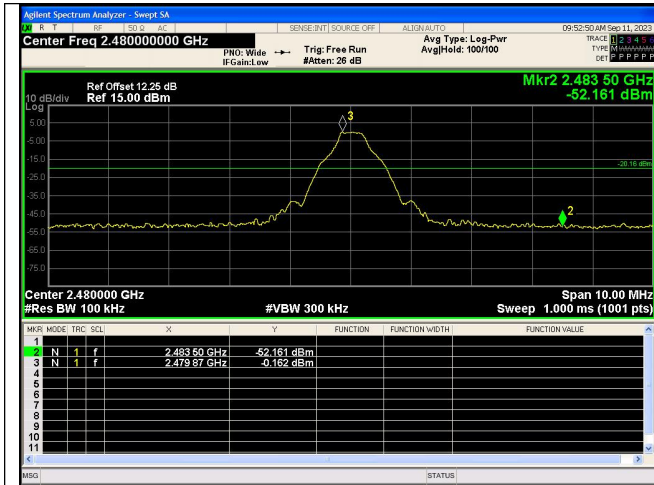
Spurious Emission
8DPSK_3-DH5_Channel 0



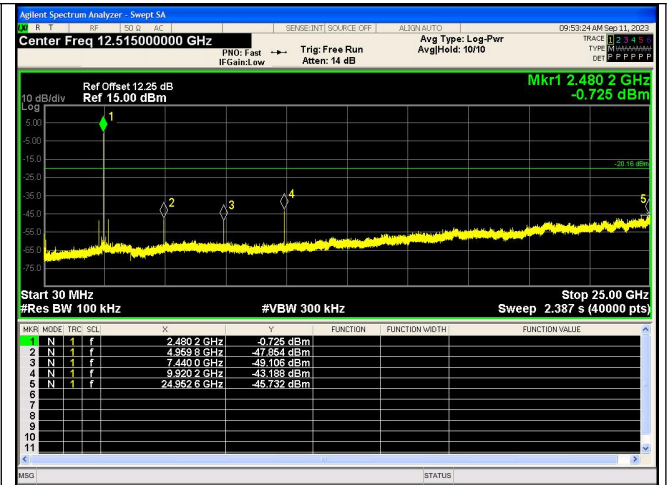
Out Of Band Emission
8DPSK_3-DH5_Channel 39



Spurious Emissions
8DPSK_3-DH5_Channel 39



Out Of Band Emission
 8DPSK_3-DH5_Channel 78



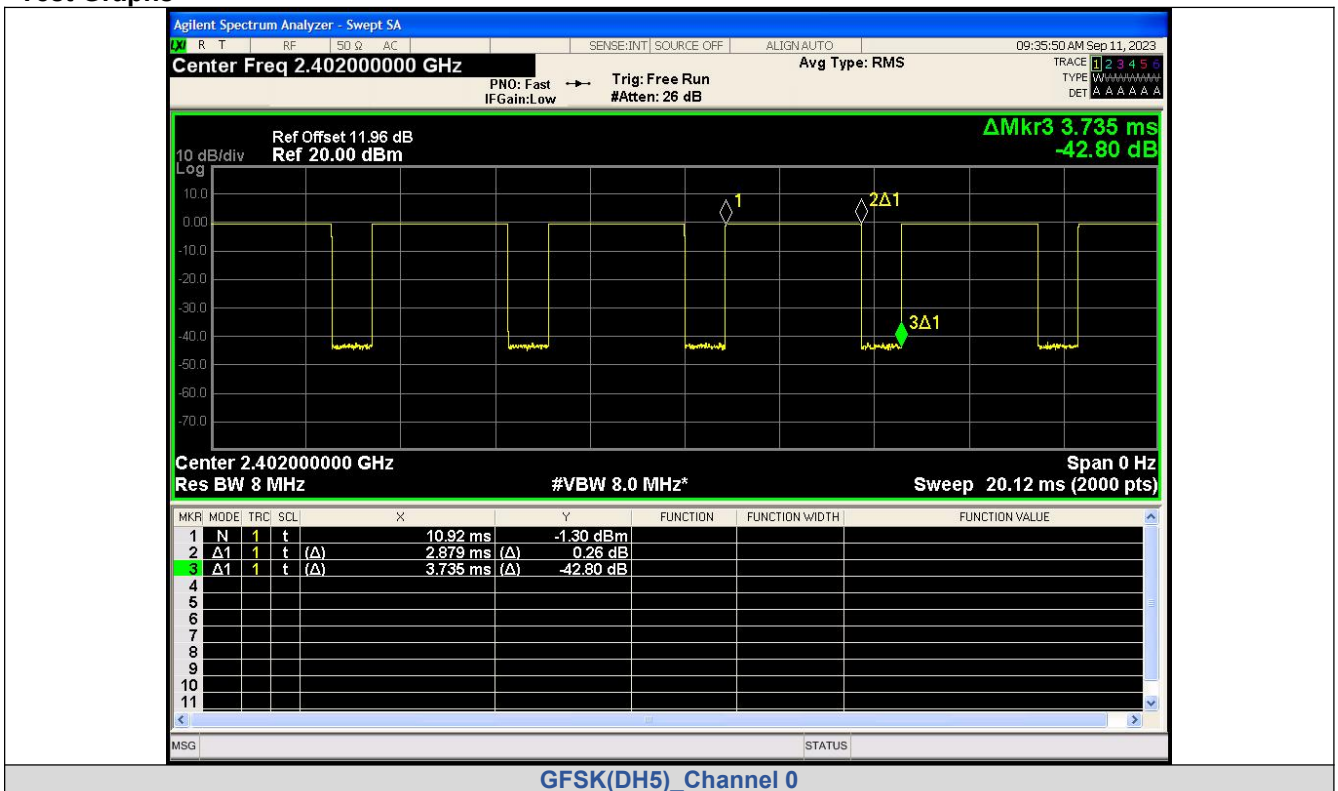
Spurious Emission
 8DPSK_3-DH5_Channel 78

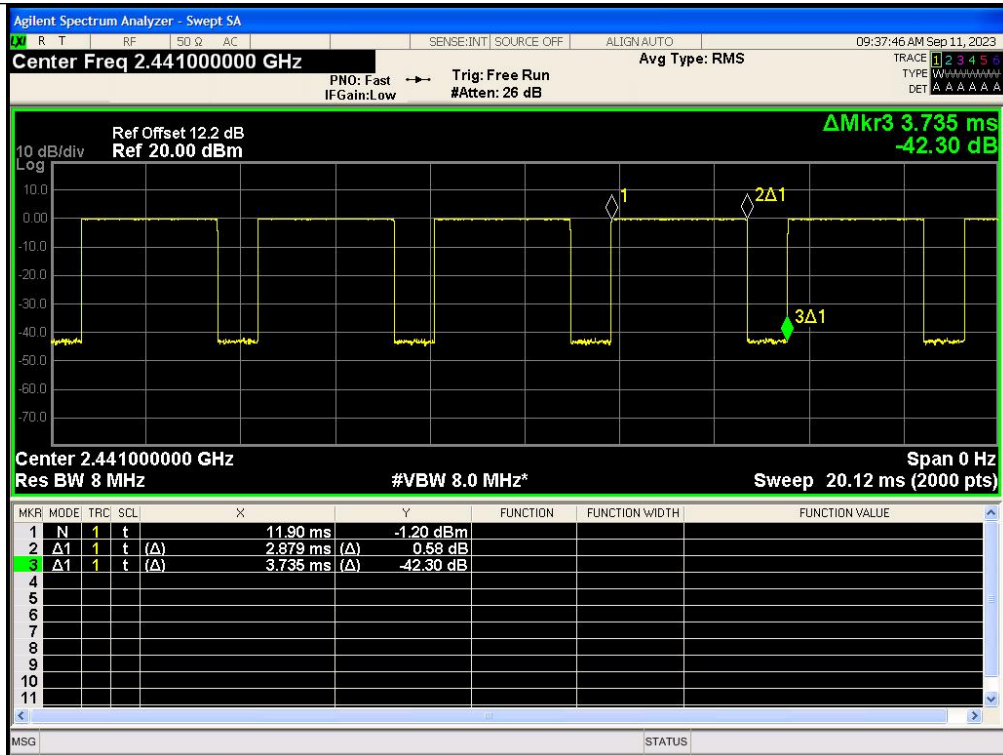
APPENDIX VI. Duty Cycle

Test Result

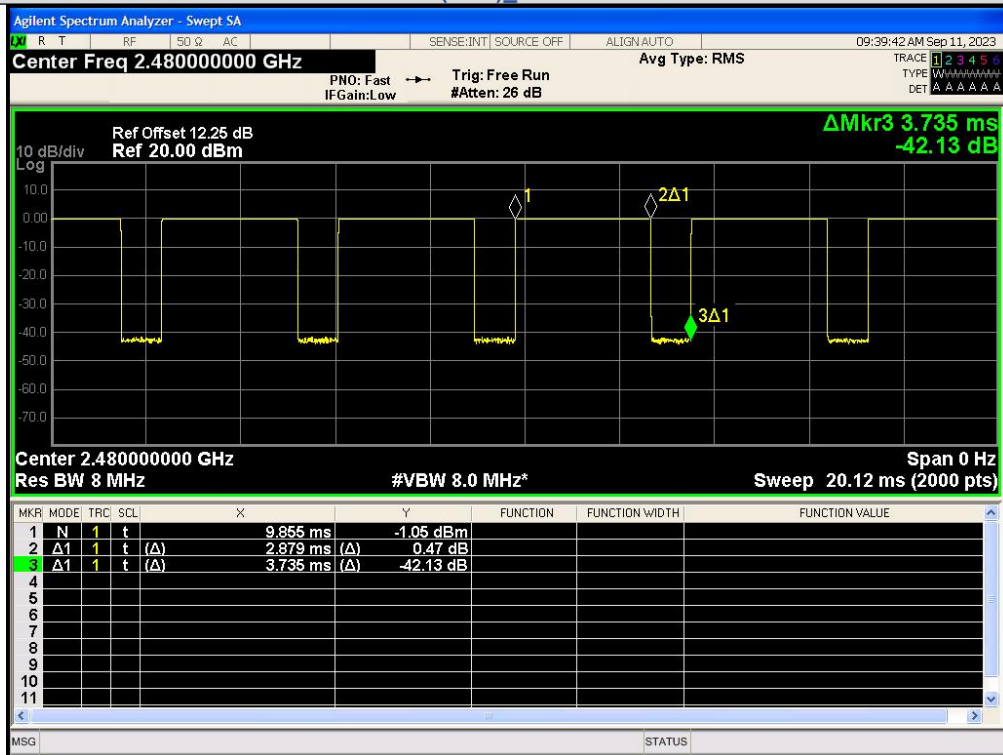
Modulation	Packets	Channel	On Time (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle (linear)	Duty Cycle Factor (dB)
GFSK	DH5	0	2.879	3.735	77.09	0.7709	1.13
		39	2.879	3.735	77.09	0.7709	1.13
		78	2.879	3.735	77.09	0.7709	1.13
$\pi/4$ DQPSK	2-DH5	0	2.889	3.735	77.36	0.7736	1.1148
		39	2.889	3.745	77.15	0.7715	1.1266
		78	2.889	3.745	77.15	0.7715	1.1266
8DPSK	3-DH5	0	2.356	3.735	63.07	0.6307	2.0018
		39	2.366	3.745	63.17	0.6317	1.9949
		78	2.366	3.745	63.17	0.6317	1.9949

Test Graphs





GFSK(DH5)_Channel 39



GFSK(DH5)_Channel 78