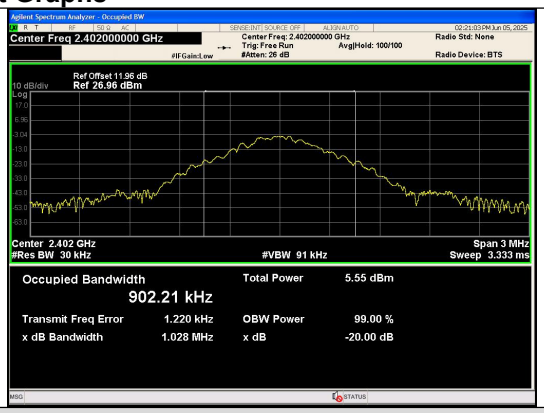
APPENDIX IV. 20dB Bandwidth

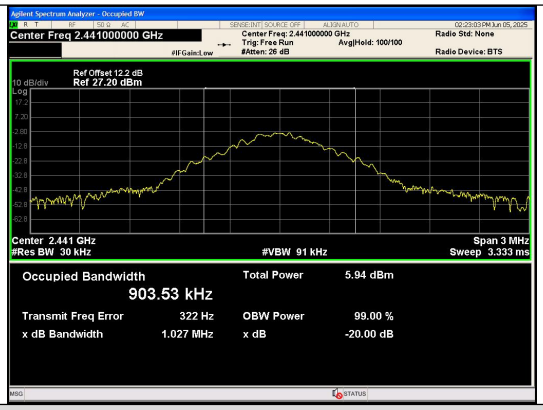
Test Result

Modulation	Channel	Center Frequency (MHz)	20 dB Bandwidth (MHz)
GFSK	0	2402 MHz	1.028
	39	2441 MHz	1.027
	78	2480 MHz	1.025
π/4DQPSK	0	2402 MHz	1.356
	39	2441 MHz	1.360
	78	2480 MHz	1.358
8DPSK	0	2402 MHz	1.344
	39	2441 MHz	1.344
	78	2480 MHz	1.341

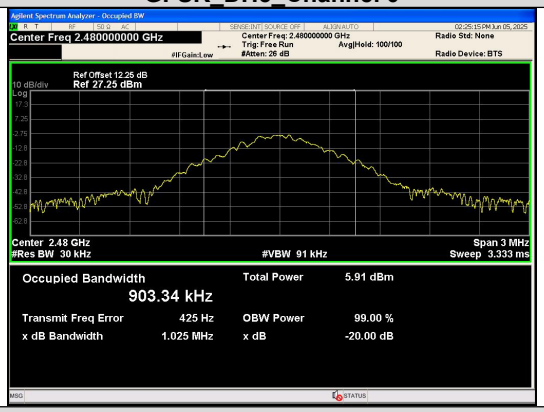
Test Graphs



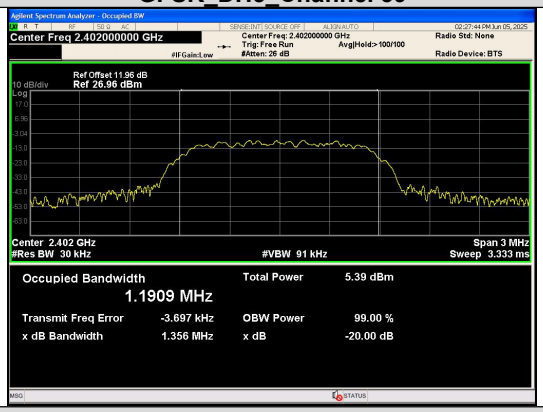
GFSK_DH5_Channel 0



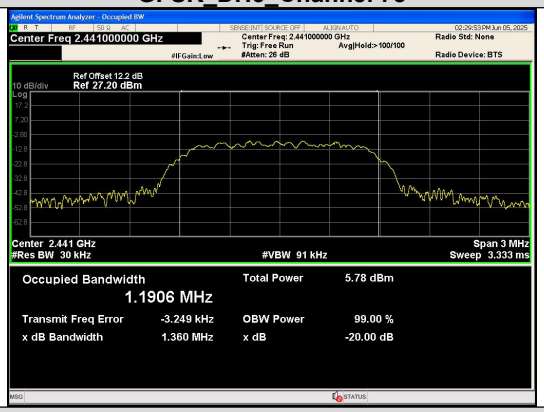
GFSK_DH5_Channel 39



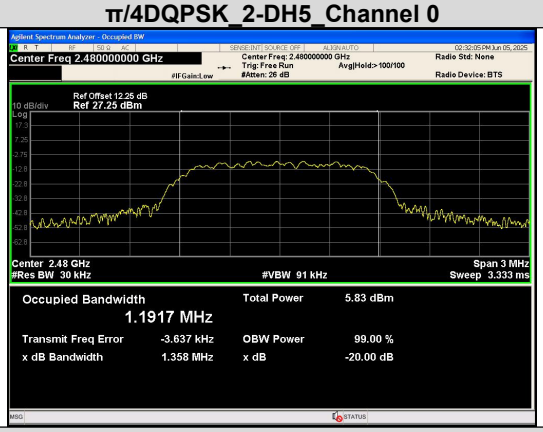
GFSK_DH5_Channel 78



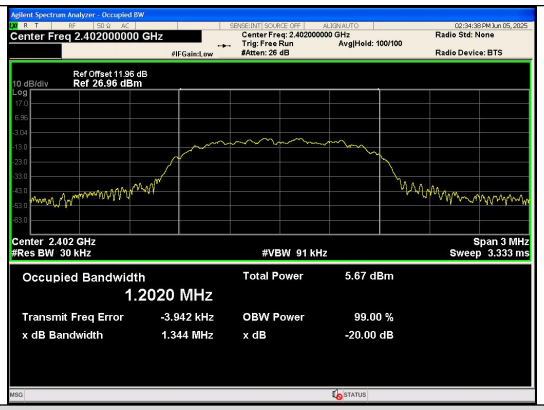
π/4DQPSK_2-DH5_Channel 0



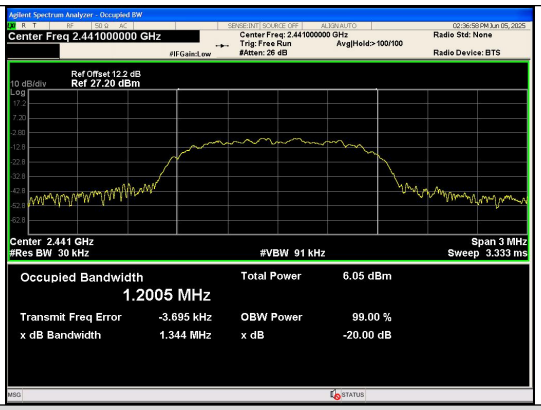
π/4DQPSK_2-DH5_Channel 39



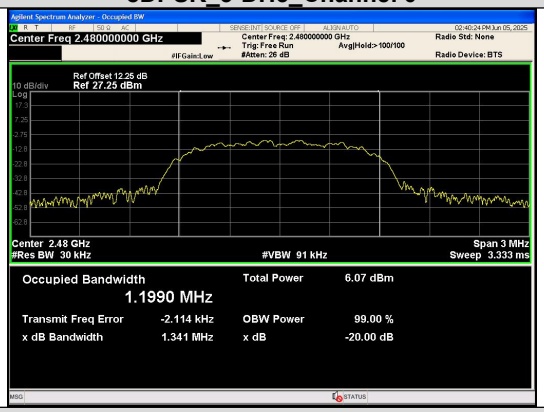
π/4DQPSK_2-DH5_Channel 78



8DPSK_3-DH5_Channel 0



8DPSK_3-DH5_Channel 39



8DPSK_3-DH5_Channel 78

APPENDIX V. Carrier Frequencies Separation

Test Result

Modulation	Packet	Left Center frequency (MHz)	Right Center frequency (MHz)	Hopping Frequency Separation (MHz)	Limit (MHz)	Result
GFSK	DH5	2439.9676	2440.9985	1.0309	0.685	PASS
GFSK	DH5	2440.0024	2441.0258	1.0234	0.685	PASS
GFSK	DH5	2439.9454	2440.9964	1.0510	0.685	PASS
π/4DQPSK	2-DH5	2440.0147	2441.0165	1.0018	0.907	PASS
π/4DQPSK	2-DH5	2440.0225	2441.0288	1.0063	0.907	PASS
π/4DQPSK	2-DH5	2440.0501	2441.0462	0.9961	0.907	PASS
8DPSK	3-DH5	2439.9565	2441.0999	1.1434	0.896	PASS
8DPSK	3-DH5	2439.9457	2440.9499	1.0042	0.896	PASS
8DPSK	3-DH5	2439.9643	2441.0816	1.1173	0.896	PASS

Test Graphs

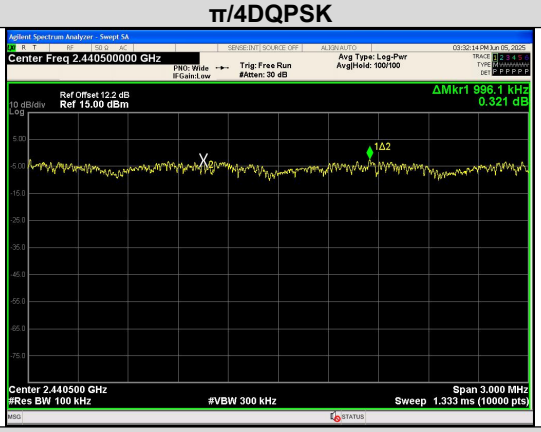
GFSK

GFSK

GFSK

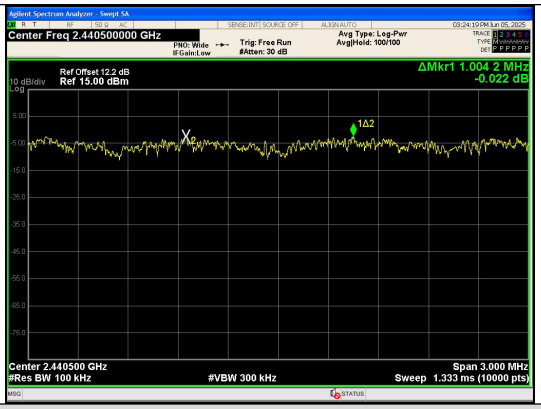
π/4DQPSK

π/4DQPSK

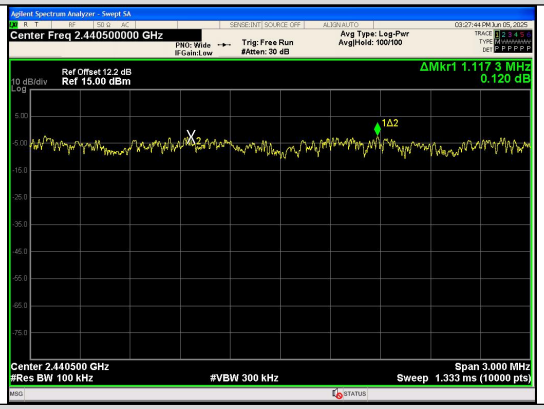


π/4DQPSK

8DPSK



8DPSK



8DPSK

APPENDIX VI. Conducted Out Of Band Emission

Test Result

Non-Hopping

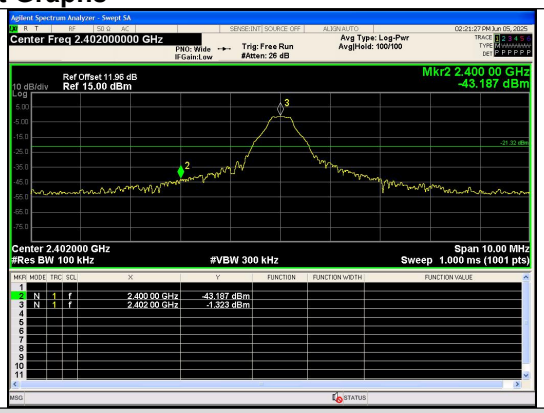
Modulation	Packet	Channel	OOB Emission Frequency (MHz)	OOB Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result
GFSK	DH5	0	2400.00	-43.187	-21.32	-21.867	PASS
			4003.35	-40.269	-21.32	-18.949	PASS
			4804.26	-42.321	-21.32	-21.001	PASS
			7205.75	-56.651	-21.32	-35.331	PASS
			9607.87	-50.225	-21.32	-28.905	PASS
		39	4882.30	-41.249	-21.02	-20.229	PASS
			7323.11	-56.446	-21.02	-35.426	PASS
			9763.93	-49.068	-21.02	-28.048	PASS
		78	2483.50	-50.286	-20.98	-29.306	PASS
			4133.20	-42.297	-20.98	-21.317	PASS
			4959.70	-44.572	-20.98	-23.592	PASS
			7439.85	-55.075	-20.98	-34.095	PASS
			9919.99	-49.816	-20.98	-28.836	PASS
π/4DQPSK	2-DH5	0	2400.00	-42.642	-22.61	-20.032	PASS
			4003.35	-42.696	-22.61	-20.086	PASS
			4804.26	-43.797	-22.61	-21.187	PASS
			7205.75	-56.373	-22.61	-33.763	PASS
			9607.87	-50.353	-22.61	-27.743	PASS
		39	4882.30	-43.684	-22.14	-21.544	PASS
			7322.49	-57.233	-22.14	-35.093	PASS
			9763.93	-49.611	-22.14	-27.471	PASS
		78	2483.50	-50.389	-22.09	-28.299	PASS
			4133.20	-44.669	-22.09	-22.579	PASS
			4959.70	-46.760	-22.09	-24.670	PASS
			7439.85	-58.337	-22.09	-36.247	PASS
			9919.99	-50.966	-22.09	-28.876	PASS
8DPSK	3-DH5	0	2400.00	-44.078	-22.42	-21.658	PASS
			4003.35	-42.338	-22.42	-19.918	PASS
			4804.26	-44.073	-22.42	-21.653	PASS
			7205.75	-56.615	-22.42	-34.195	PASS
			9607.87	-50.680	-22.42	-28.260	PASS
		39	4882.30	-41.843	-22.02	-19.823	PASS
			7323.11	-58.452	-22.02	-36.432	PASS
			9763.93	-49.287	-22.02	-27.267	PASS
		78	2483.50	-51.099	-21.93	-29.169	PASS
			4133.82	-44.925	-21.93	-22.995	PASS
			4960.33	-45.472	-21.93	-23.542	PASS
			7439.85	-56.042	-21.93	-34.112	PASS
			9919.99	-50.919	-21.93	-28.989	PASS

Hopping

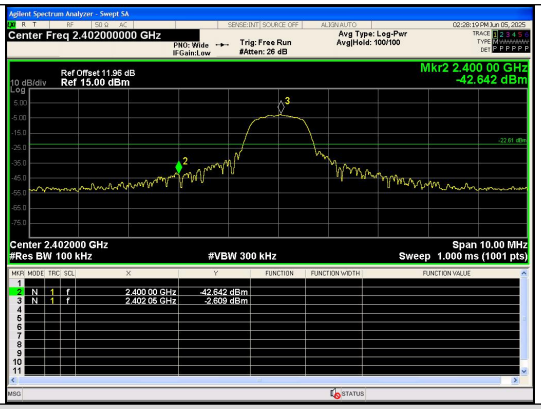
Modulation	Packet	Channel	OOB Emission Frequency (MHz)	OOB Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result
GFSK	DH5	Hopping	2397.36	-50.208	-21.42	-28.788	PASS
			2400.00	-51.630	-21.42	-30.210	PASS
			2483.50	-50.094	-20.78	-29.314	PASS
			2397.17	-50.409	-21.46	-28.949	PASS
			2400.00	-51.317	-21.46	-29.857	PASS
			2483.50	-50.418	-20.87	-29.548	PASS
			2398.70	-49.566	-21.45	-28.116	PASS
			2400.00	-52.678	-21.45	-31.228	PASS
			2483.50	-50.847	-20.82	-30.027	PASS
π/4DQPSK	2-DH5		2397.83	-49.585	-22.89	-26.695	PASS
			2400.00	-52.297	-22.89	-29.407	PASS
			2483.50	-50.361	-22.16	-28.201	PASS
			2398.54	-49.290	-22.63	-26.660	PASS
			2400.00	-51.754	-22.63	-29.124	PASS
			2483.50	-50.862	-22.82	-28.042	PASS

			2400.00	-48.262	-22.84	-25.422	PASS
			2483.50	-50.899	-22.15	-28.749	PASS
8DPSK	3-DH5		2396.19	-50.136	-22.58	-27.556	PASS
			2400.00	-51.147	-22.58	-28.567	PASS
			2483.50	-51.361	-22.2	-29.161	PASS
			2398.90	-49.093	-22.56	-26.534	PASS
			2400.00	-50.720	-22.56	-28.160	PASS
			2483.50	-51.813	-22.16	-29.653	PASS
			2398.33	-49.343	-22.58	-26.764	PASS
			2400.00	-52.884	-22.58	-30.304	PASS
			2483.50	-51.218	-21.94	-29.278	PASS

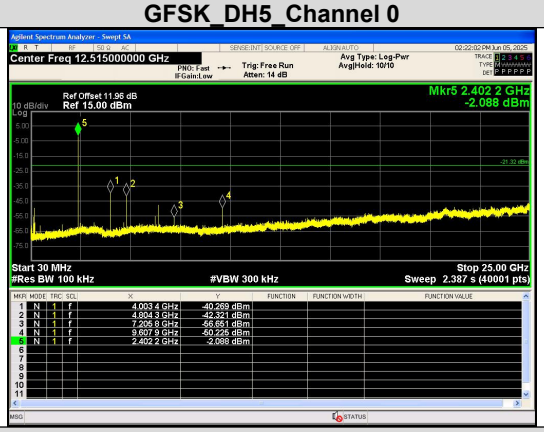
Test Graphs



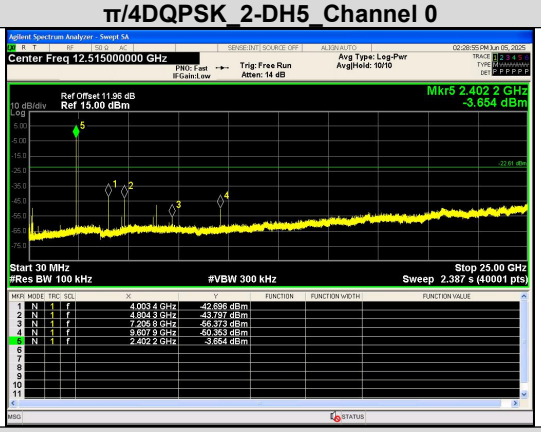
Out Of Band Emission
GFSK_DH5_Channel 0



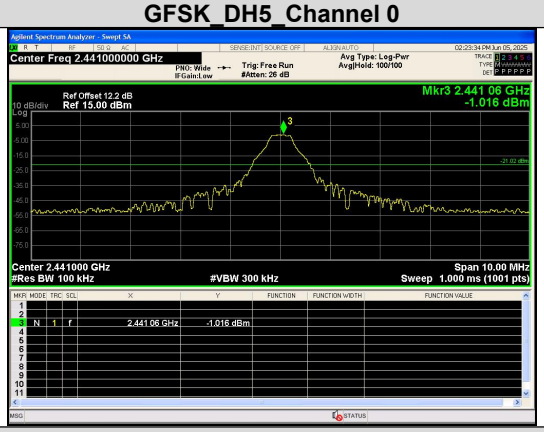
Out Of Band Emission
π/4DQPSK_2-DH5_Channel 0



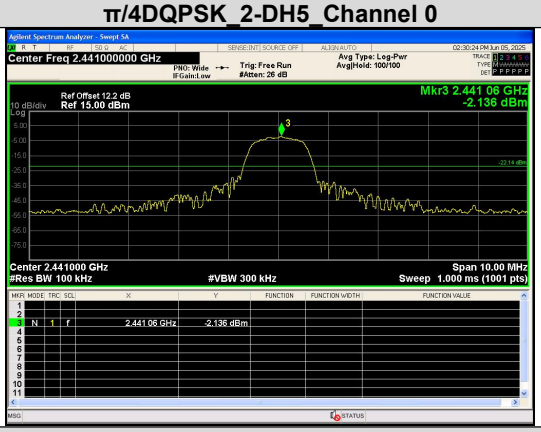
30.0 MHz - 25000.0 MHz
GFSK_DH5_Channel 0



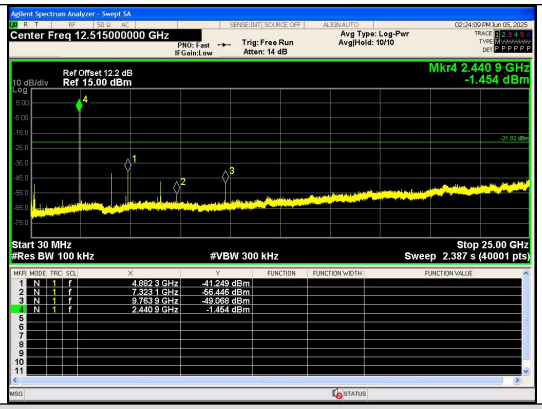
30.0 MHz - 25000.0 MHz
π/4DQPSK_2-DH5_Channel 0



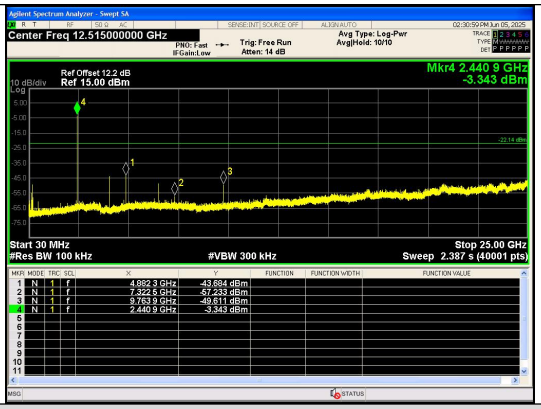
Out Of Band Emission
GFSK_DH5_Channel 39



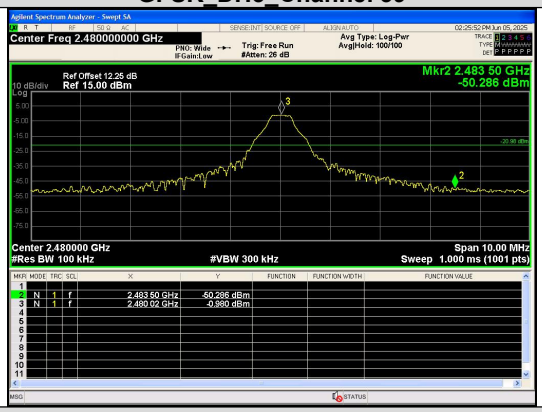
Out Of Band Emission
π/4DQPSK_2-DH5_Channel 39



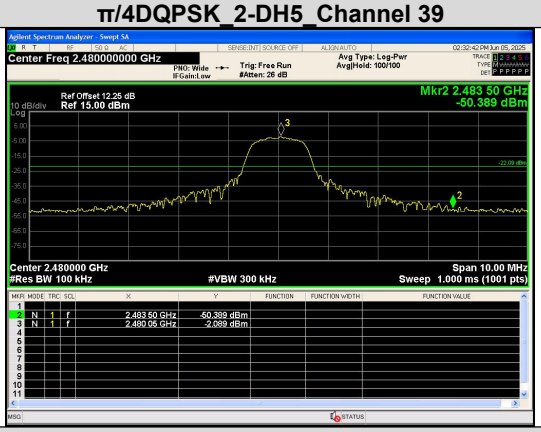
30.0 MHz - 25000.0 MHz
GFSK_DH5_Channel 39



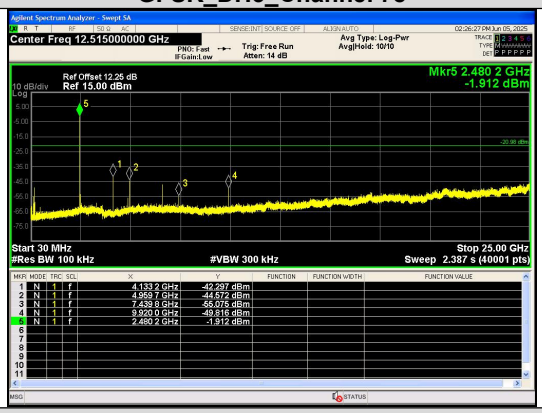
30.0 MHz - 25000.0 MHz
π/4DQPSK_2-DH5_Channel 39



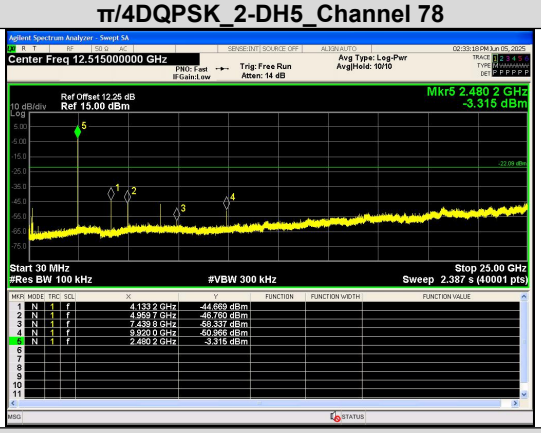
Out Of Band Emission
GFSK_DH5_Channel 78



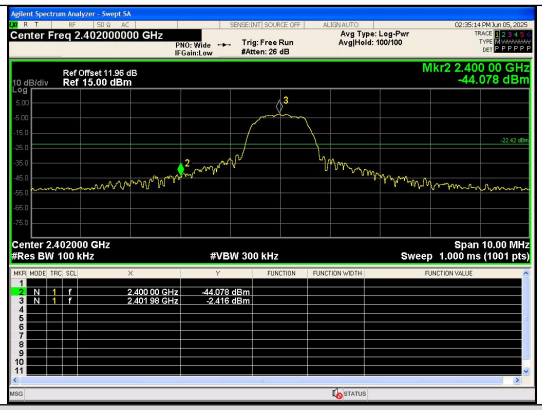
Out Of Band Emission
π/4DQPSK_2-DH5_Channel 78



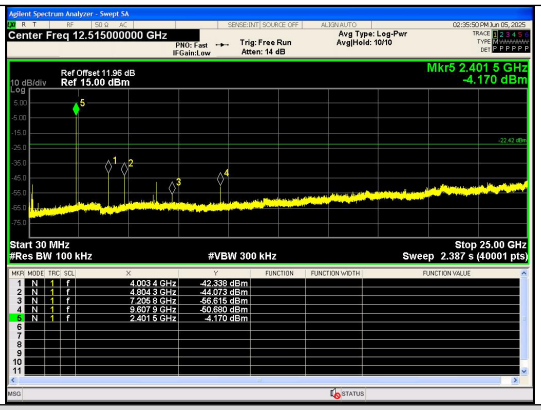
30.0 MHz - 25000.0 MHz
GFSK_DH5_Channel 78



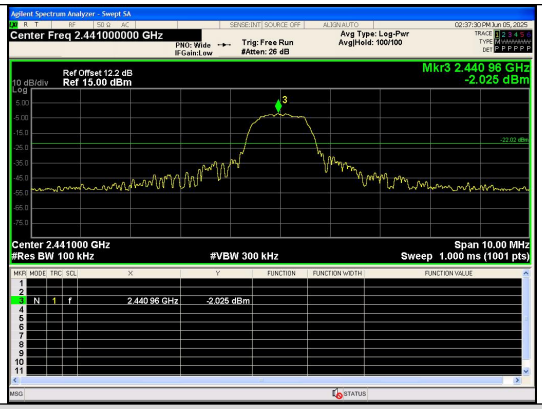
30.0 MHz - 25000.0 MHz
π/4DQPSK_2-DH5_Channel 78



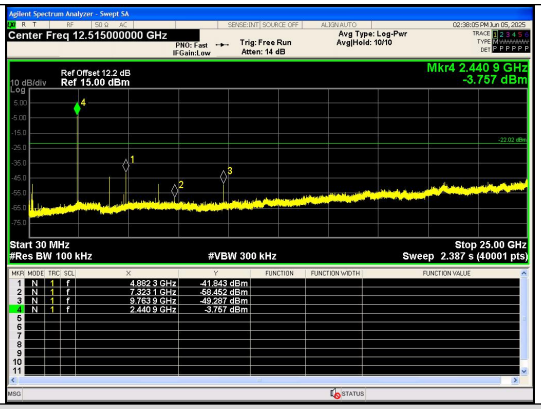
Out Of Band Emission
8DPSK_3-DH5_Channel 0



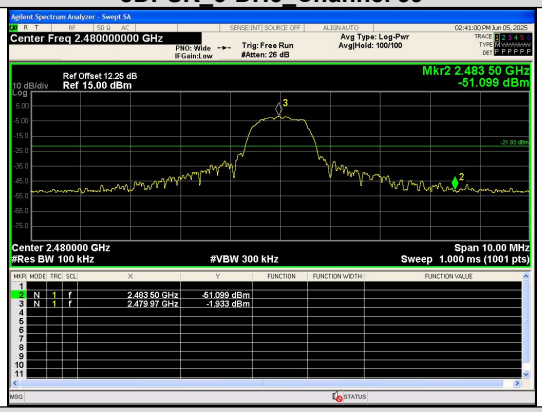
30.0 MHz - 25000.0 MHz
8DPSK_3-DH5_Channel 0



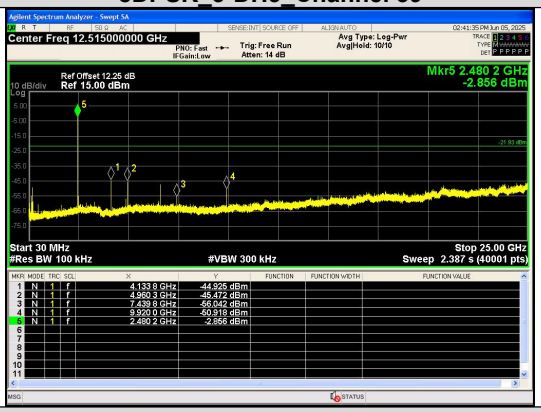
Out Of Band Emission
8DPSK_3-DH5_Channel 39



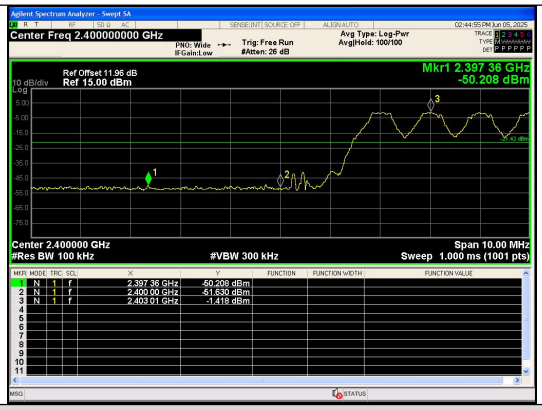
30.0 MHz - 25000.0 MHz
8DPSK_3-DH5_Channel 39



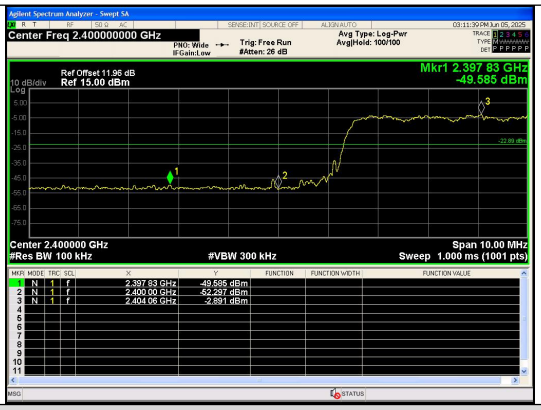
Out Of Band Emission
8DPSK_3-DH5_Channel 78



30.0 MHz - 25000.0 MHz
8DPSK_3-DH5_Channel 78

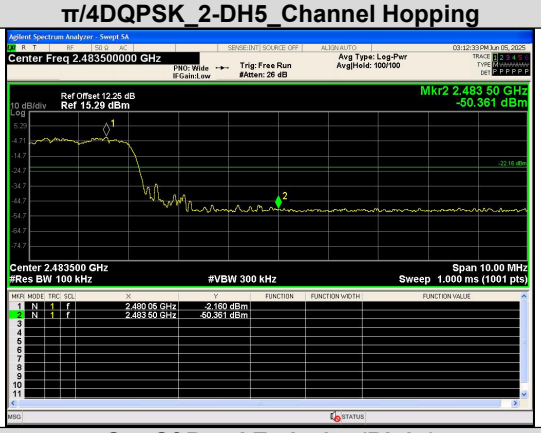


Out Of Band Emission(Left)
GFSK_DH5_Channel Hopping



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

Out Of Band Emission(Right)
GFSK_DH5_Channel Hopping



Out Of Band Emission(Right)
π/4DQPSK_2-DH5_Channel Hopping