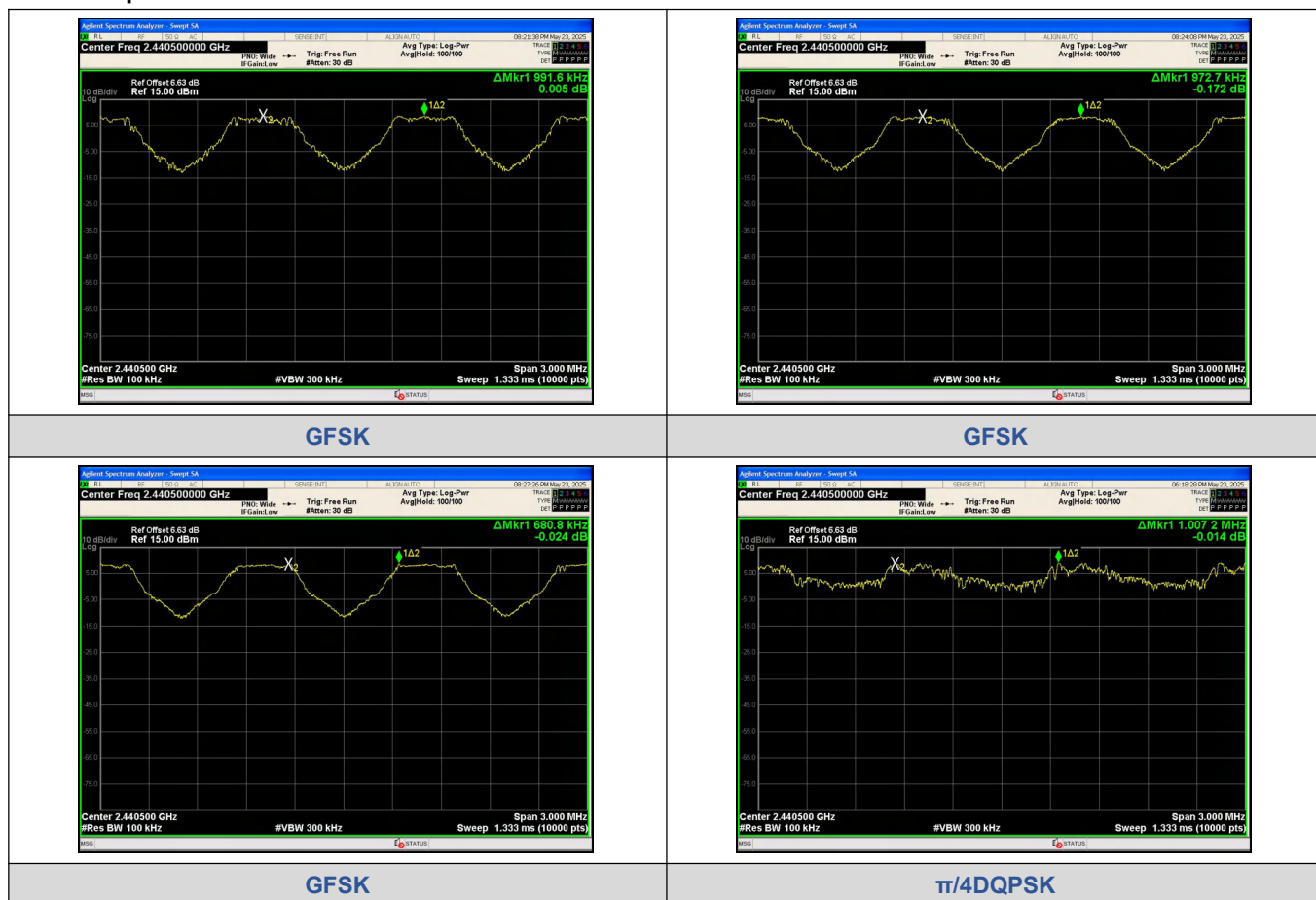


Carrier Frequency Separation

Test Result

Modulation	Packet	Left Center frequency (MHz)	Right Center frequency (MHz)	Hopping Frequency Separation (MHz)	Limit (MHz)	Result
GFSK	DH1	2440.0021	2440.9937	0.9916	0.531	PASS
GFSK	DH3	2440.0126	2440.9853	0.9727	0.547	PASS
GFSK	DH5	2440.1584	2440.8392	0.6808	0.617	PASS
$\pi/4$ DQPSK	2-DH1	2439.8413	2440.8485	1.0072	0.837	PASS
$\pi/4$ DQPSK	2-DH3	2440.027	2441.0036	0.9766	0.871	PASS
$\pi/4$ DQPSK	2-DH5	2439.8182	2440.9979	1.1797	0.867	PASS
8DPSK	3-DH1	2439.8398	2440.8419	1.0021	0.869	PASS
8DPSK	3-DH3	2439.8242	2440.9961	1.1719	0.818	PASS
8DPSK	3-DH5	2439.8395	2441.1614	1.3219	0.868	PASS

Test Graphs




 $\pi/4$ DQPSK

 $\pi/4$ DQPSK


8DPSK



8DPSK



8DPSK

Conducted Out Of Band Emission

Note: The maximum loss of the test system for testing at 30MHz-26.5GHz is 17.2dB. The offset on the test chart is the offset of the main frequency, and the margin is sufficient to offset the difference between the maximum loss of the system and the offset of the main frequency.

Test Result

Non-Hopping

Modulation	Packet	Channel	OOB Emission Frequency (MHz)	OOB Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result
GFSK	DH1	0	2333.81	-50.768	-8.17	-42.598	PASS
			2400.00	-51.860	-8.17	-43.690	PASS
			4803.60	-48.418	-8.17	-40.248	PASS
			7205.80	-48.603	-8.17	-40.433	PASS
			9608.50	-67.085	-8.17	-58.915	PASS
		39	4881.67	-50.242	-8.08	-42.162	PASS
			7323.74	-48.864	-8.08	-40.785	PASS
			9763.93	-63.439	-8.08	-55.359	PASS
			24696.0	-47.791	-8.08	-39.712	PASS
		78	2483.50	-51.296	-7.47	-43.826	PASS
			4960.33	-50.364	-7.47	-42.894	PASS
			7439.85	-44.810	-7.47	-37.340	PASS
			9919.37	-63.208	-7.47	-55.738	PASS
	DH3	0	2398.07	-50.745	-8.34	-42.406	PASS
			2400.00	-51.530	-8.34	-43.190	PASS
			4803.60	-47.131	-8.34	-38.791	PASS
			7205.80	-48.824	-8.34	-40.484	PASS
			9607.90	-68.180	-8.34	-59.840	PASS
		39	4881.67	-49.737	-8.3	-41.437	PASS
			7322.49	-47.347	-8.3	-39.047	PASS
			9764.55	-68.589	-8.3	-60.289	PASS
		78	2483.50	-52.998	-7.59	-45.408	PASS
			4959.70	-50.222	-7.59	-42.632	PASS
			7439.85	-45.474	-7.59	-37.884	PASS
			9920.62	-62.880	-7.59	-55.290	PASS
	DH5	0	2400.00	-49.631	-8.29	-41.341	PASS
			4804.26	-46.933	-8.29	-38.643	PASS
			7206.38	-47.576	-8.29	-39.286	PASS
			9607.24	-67.002	-8.29	-58.712	PASS
		39	4882.30	-49.050	-8.25	-40.800	PASS
			7323.11	-47.818	-8.25	-39.568	PASS

		78	9763.31	-68.135	-8.25	-59.885	PASS
			2483.50	-51.991	-7.72	-44.271	PASS
			4960.33	-49.120	-7.72	-41.400	PASS
			7440.47	-42.559	-7.72	-34.839	PASS
			9919.99	-61.081	-7.72	-53.361	PASS
$\pi/4$ DQPSK	2-DH1	0	2400.00	-45.963	-10.35	-35.613	PASS
			4804.26	-54.365	-10.35	-44.015	PASS
			4824.24	-43.187	-10.35	-32.837	PASS
			7206.38	-68.295	-10.35	-57.945	PASS
			9607.87	-68.558	-10.35	-58.208	PASS
		39	4882.30	-67.027	-15.03	-51.997	PASS
			7322.49	-68.694	-15.03	-53.664	PASS
			9764.55	-68.285	-15.03	-53.255	PASS
			24405.7	-54.579	-15.03	-39.549	PASS
		78	2483.50	-50.106	-17.6	-32.506	PASS
			4959.70	-67.716	-17.6	-50.116	PASS
			7439.85	-67.496	-17.6	-49.896	PASS
			9920.62	-70.351	-17.6	-52.751	PASS
			24678.5	-54.928	-17.6	-37.328	PASS
	2-DH3	0	2396.53	-52.020	-14.98	-37.040	PASS
			2400.00	-45.327	-14.98	-30.347	PASS
			4804.26	-66.757	-14.98	-51.777	PASS
			7205.75	-65.650	-14.98	-50.670	PASS
			9607.24	-68.150	-14.98	-53.170	PASS
		39	4882.30	-68.442	-15.03	-53.412	PASS
			7322.49	-67.879	-15.03	-52.849	PASS
			9763.31	-68.545	-15.03	-53.515	PASS
			24983.2	-55.329	-15.03	-40.299	PASS
		78	2483.50	-48.980	-17.39	-31.590	PASS
			4959.70	-67.176	-17.39	-49.786	PASS
			7439.85	-68.256	-17.39	-50.866	PASS
			9919.37	-69.642	-17.39	-52.252	PASS
			24670.4	-55.451	-17.39	-38.061	PASS
	2-DH5	0	2400.00	-45.690	-15.33	-30.360	PASS
			4803.64	-67.359	-15.33	-52.029	PASS
			7205.75	-66.143	-15.33	-50.813	PASS
			9608.49	-66.600	-15.33	-51.270	PASS
			24646.7	-55.243	-15.33	-39.913	PASS
		39	4882.92	-67.646	-15.07	-52.576	PASS
			7323.11	-67.900	-15.07	-52.830	PASS
			9763.93	-68.874	-15.07	-53.804	PASS
			24611.7	-55.408	-15.07	-40.338	PASS
		78	2483.50	-48.669	-17.6	-31.069	PASS

			4959.70	-67.419	-17.6	-49.819	PASS
			7439.22	-66.889	-17.6	-49.289	PASS
			9920.62	-69.489	-17.6	-51.889	PASS
			24694.7	-54.889	-17.6	-37.288	PASS
8DPSK	3-DH1	0	2392.16	-54.615	-15.92	-38.695	PASS
			2400.00	-38.676	-15.92	-22.756	PASS
			4803.64	-67.832	-15.92	-51.912	PASS
			7205.75	-67.401	-15.92	-51.481	PASS
			9608.49	-68.170	-15.92	-52.250	PASS
		39	4882.30	-67.185	-15.27	-51.915	PASS
			7323.74	-68.747	-15.27	-53.477	PASS
			9763.31	-68.361	-15.27	-53.091	PASS
			24701.0	-55.053	-15.27	-39.783	PASS
		78	2483.50	-48.422	-17.76	-30.662	PASS
			4959.08	-67.769	-17.76	-50.009	PASS
			7439.85	-67.446	-17.76	-49.686	PASS
			9919.99	-69.603	-17.76	-51.843	PASS
			24732.8	-53.415	-17.76	-35.655	PASS
	3-DH3	0	2400.00	-44.981	-15.29	-29.691	PASS
			4804.26	-68.493	-15.29	-53.203	PASS
			7206.38	-68.138	-15.29	-52.848	PASS
			9608.49	-68.314	-15.29	-53.024	PASS
			24744.7	-55.158	-15.29	-39.868	PASS
		39	4881.05	-68.259	-14.92	-53.339	PASS
			7323.74	-68.187	-14.92	-53.267	PASS
			9763.31	-68.004	-14.92	-53.084	PASS
			24754.7	-54.967	-14.92	-40.047	PASS
		78	2483.50	-50.203	-18.08	-32.123	PASS
			4959.08	-68.269	-18.08	-50.189	PASS
			7439.85	-68.153	-18.08	-50.073	PASS
			9919.37	-70.235	-18.08	-52.155	PASS
			24743.4	-54.666	-18.08	-36.586	PASS
	3-DH5	0	2400.00	-45.103	-15.96	-29.143	PASS
			4804.89	-67.554	-15.96	-51.594	PASS
			7205.13	-66.954	-15.96	-50.994	PASS
			9607.24	-65.936	-15.96	-49.976	PASS
			24674.1	-54.914	-15.96	-38.954	PASS
		39	4882.30	-67.245	-15.11	-52.135	PASS
			7323.11	-67.968	-15.11	-52.858	PASS
			9763.93	-68.440	-15.11	-53.330	PASS
			24674.1	-54.890	-15.11	-39.780	PASS
		78	2483.50	-51.704	-17.76	-33.944	PASS
			4959.70	-67.194	-17.76	-49.434	PASS

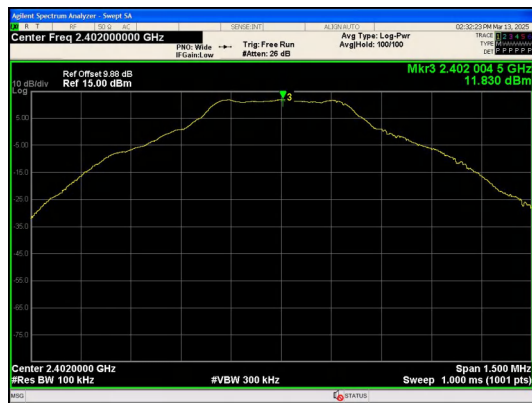
			7439.22	-68.496	-17.76	-50.736	PASS
			9920.62	-70.537	-17.76	-52.777	PASS
			24770.9	-54.675	-17.76	-36.915	PASS

Hopping

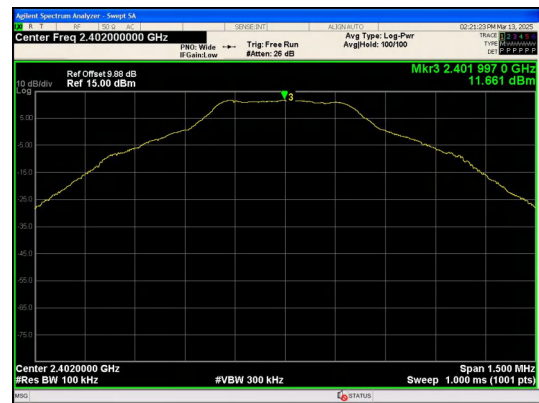
Modulation	Packet	Channel	OOB Emission Frequency (MHz)	OOB Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result
GFSK	DH1	Hopping	2392.30	-54.102	-6.57	-47.532	PASS
			2400.00	-56.225	-6.57	-49.655	PASS
			2483.50	-54.005	-11.27	-42.735	PASS
			2398.18	-53.313	-6.44	-46.873	PASS
			2400.00	-54.331	-6.44	-47.891	PASS
			2483.50	-55.655	-11.16	-44.495	PASS
	DH3		2397.02	-53.955	-6.72	-47.235	PASS
			2400.00	-54.555	-6.72	-47.835	PASS
			2483.50	-55.096	-11.44	-43.656	PASS
			2319.11	-53.785	-6.49	-47.295	PASS
			2400.00	-54.938	-6.49	-48.448	PASS
			2483.50	-55.273	-11.42	-43.853	PASS
	DH5		2384.95	-53.769	-6.65	-47.119	PASS
			2400.00	-54.529	-6.65	-47.879	PASS
			2483.50	-55.565	-11.21	-44.355	PASS
			2400.00	-53.585	-6.22	-47.365	PASS
			2483.50	-55.717	-11.37	-44.347	PASS
π/4DQPSK	2-DH1		2400.00	-42.346	-6.51	-35.836	PASS
			2483.50	-55.578	-11.92	-43.658	PASS
			2400.00	-42.741	-6.43	-36.311	PASS
			2483.50	-55.033	-11.92	-43.113	PASS
	2-DH3		2400.00	-41.995	-6.69	-35.305	PASS
			2483.50	-55.235	-12.21	-43.025	PASS
			2400.00	-43.186	-6.46	-36.726	PASS
			2483.50	-55.880	-12.36	-43.520	PASS
	2-DH5		2400.00	-41.406	-6.43	-34.976	PASS
			2483.50	-55.704	-12.04	-43.664	PASS
			2400.00	-41.795	-6.96	-34.835	PASS
			2483.50	-55.677	-12.45	-43.227	PASS
8DPSK	3-DH1		2400.00	-45.026	-6.03	-38.996	PASS
			2483.50	-54.760	-11.97	-42.790	PASS
			2400.00	-43.972	-6.42	-37.552	PASS
			2483.50	-55.519	-12.07	-43.449	PASS

	3-DH3		2400.00	-43.754	-6.37	-37.384	PASS
			2483.50	-55.245	-11.93	-43.315	PASS
			2400.00	-42.249	-6.61	-35.639	PASS
			2483.50	-55.763	-12.17	-43.593	PASS
	3-DH5		2400.00	-43.136	-7.48	-35.656	PASS
			2483.50	-55.276	-12.25	-43.026	PASS
			2400.00	-42.392	-6.59	-35.802	PASS
			2483.50	-55.174	-12.27	-42.904	PASS

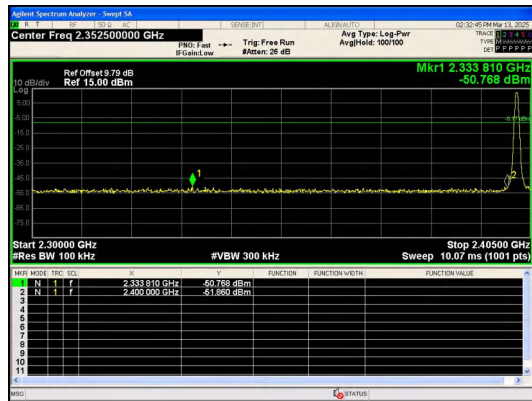
Test Graphs



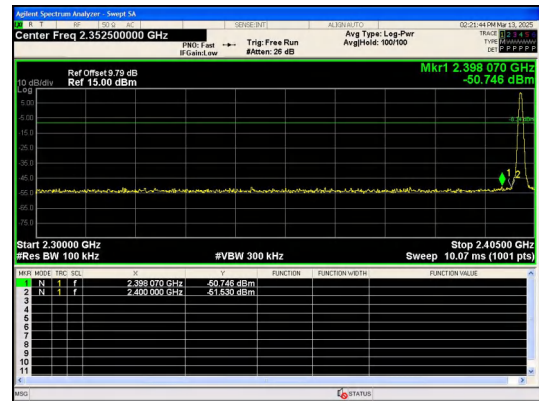
In-Band Reference Level
GFSK_DH1_Channel 0



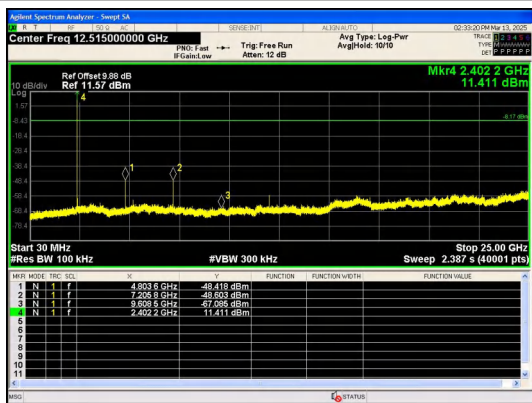
In-Band Reference Level
GFSK_DH3_Channel 0



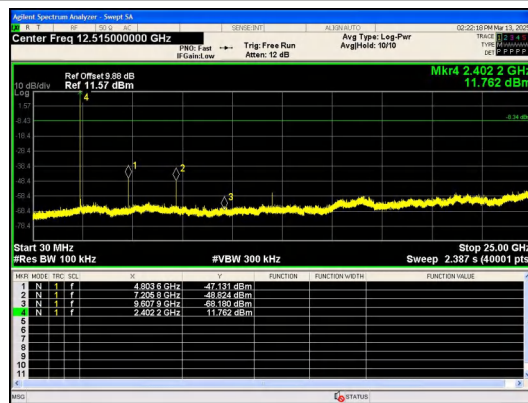
Out Of Band Emission
GFSK_DH1_Channel 0



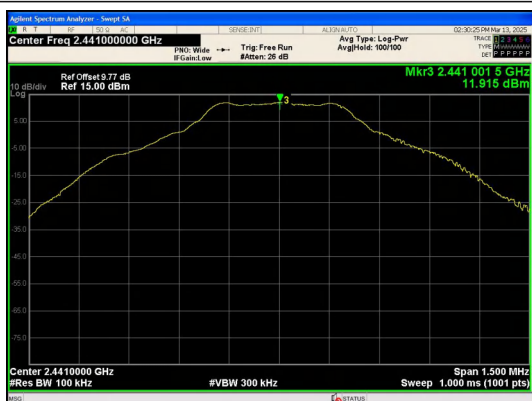
Out Of Band Emission
GFSK_DH3_Channel 0



30.0 MHz - 25000.0 MHz
GFSK_DH1_Channel 0



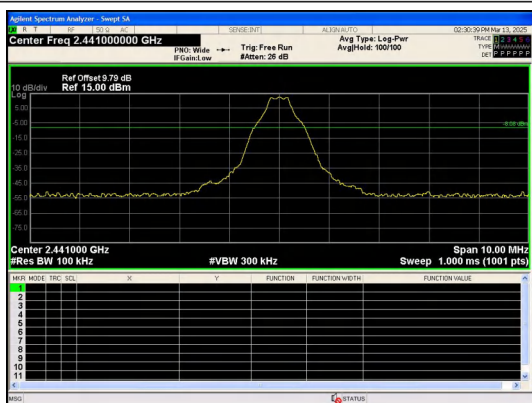
30.0 MHz - 25000.0 MHz
GFSK_DH3_Channel 0



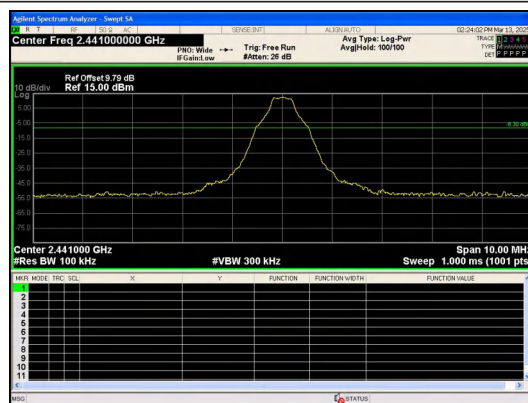
In-Band Reference Level
GFSK_DH1_Channel 39



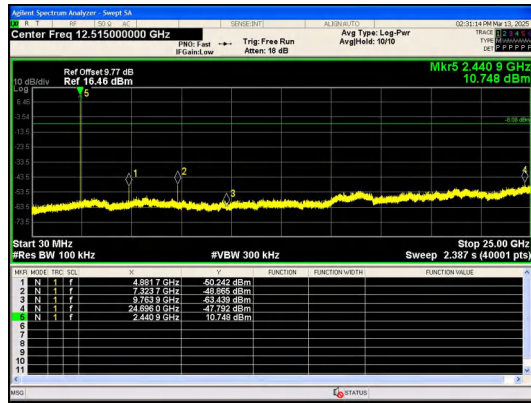
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GFSK_DH3_Channel 39



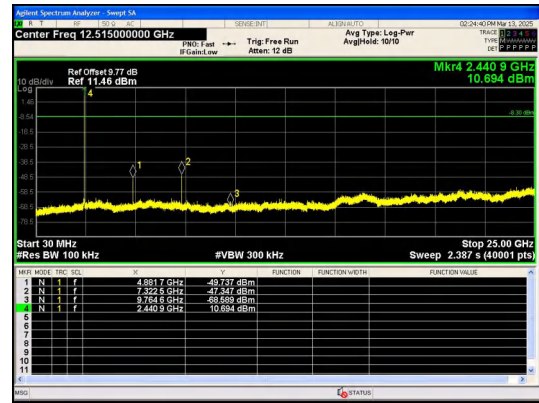
Out Of Band Emission
GFSK_DH1_Channel 39



Out Of Band Emission
GFSK_DH3_Channel 39



30.0 MHz - 25000.0 MHz
GFSK_DH1_Channel 39



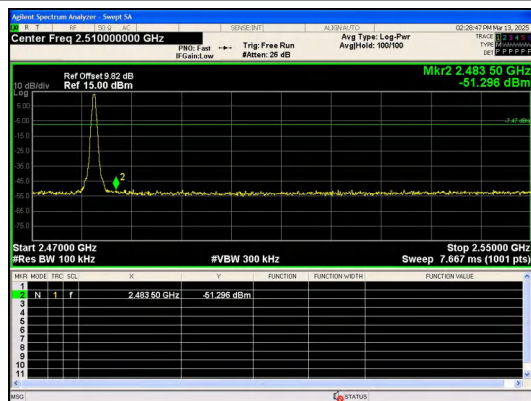
30.0 MHz - 25000.0 MHz
GFSK_DH3_Channel 39



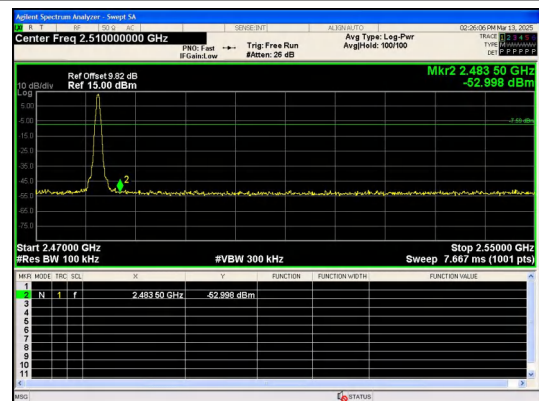
In-Band Reference Level
GFSK_DH1_Channel 78



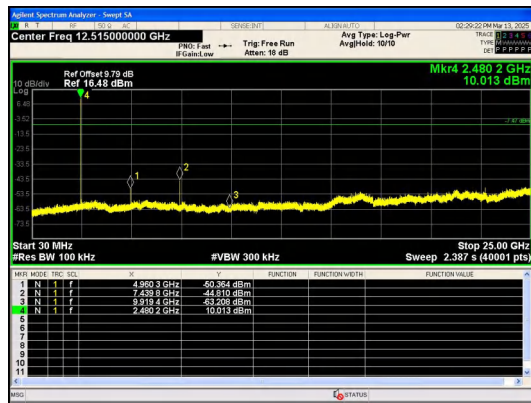
In-Band Reference Level
GFSK_DH3_Channel 78



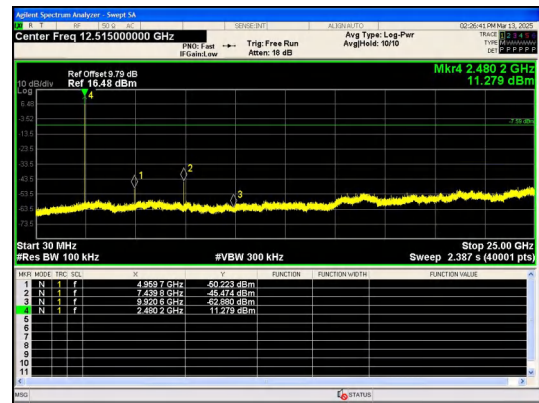
Out Of Band Emission
GFSK_DH1_Channel 78



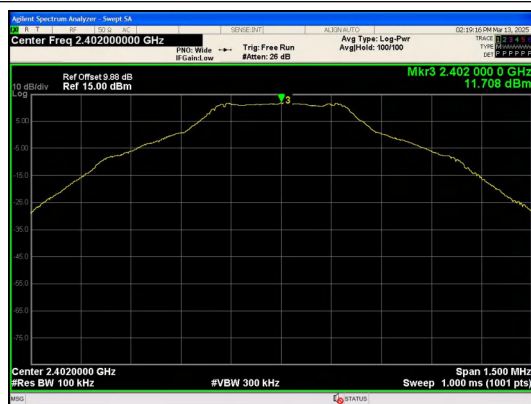
Out Of Band Emission
GFSK_DH3_Channel 78



30.0 MHz - 25000.0 MHz
GFSK_DH1_Channel 78



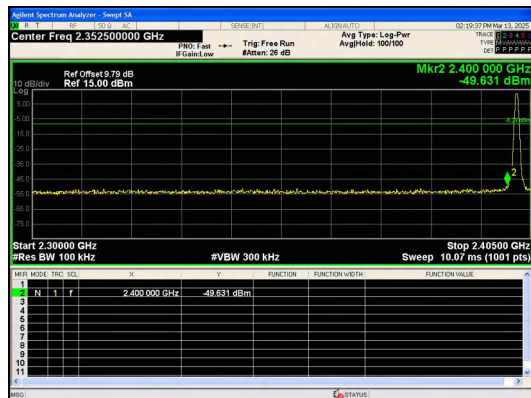
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GFSK_DH3_Channel 78



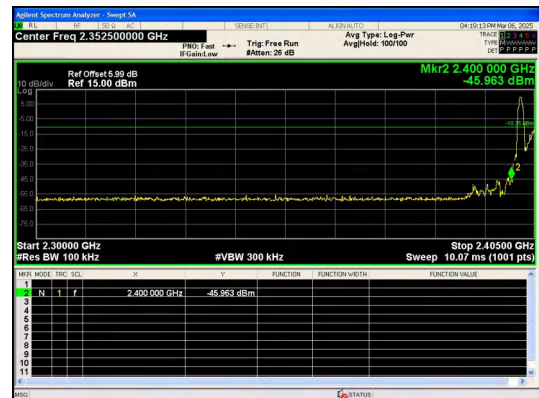
In-Band Reference Level
GFSK_DH5_Channel 0



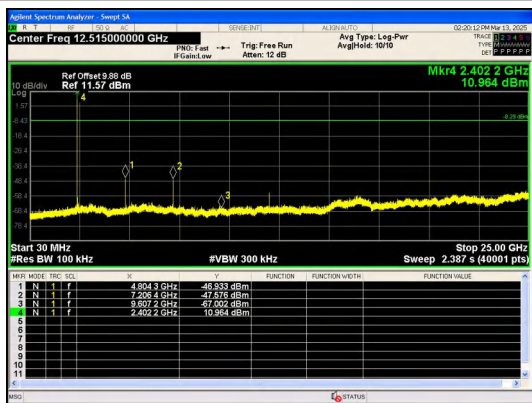
In-Band Reference Level
 $\pi/4$ DQPSK_2-DH1_Channel 0



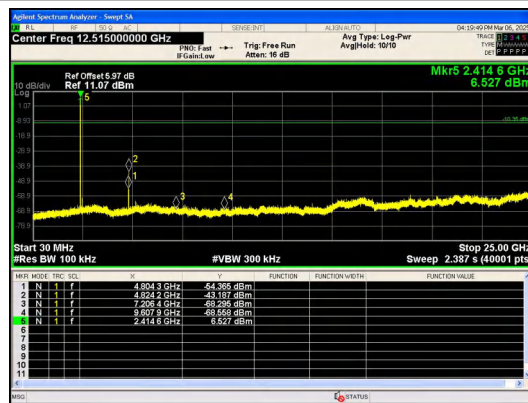
Out Of Band Emission
GFSK_DH5_Channel 0



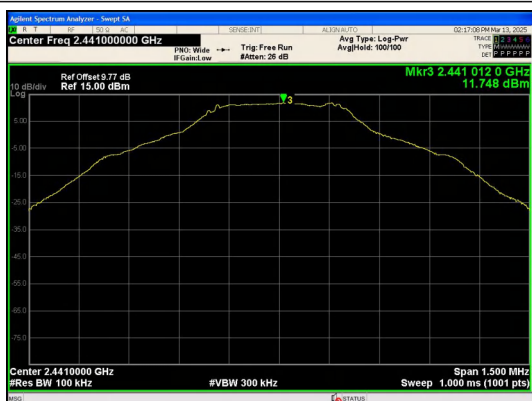
Out Of Band Emission
 $\pi/4$ DQPSK_2-DH1_Channel 0



30.0 MHz - 25000.0 MHz
GFSK_DH5_Channel 0



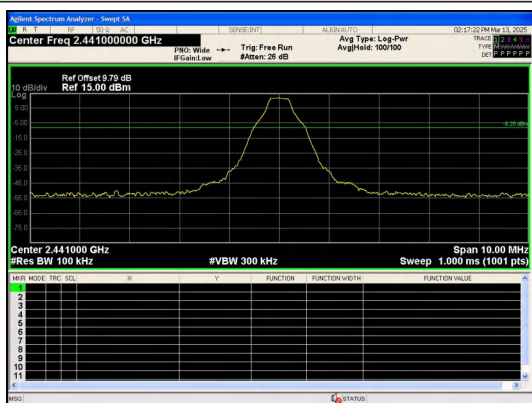
30.0 MHz - 25000.0 MHz
 $\pi/4$ DQPSK_2-DH1_Channel 0



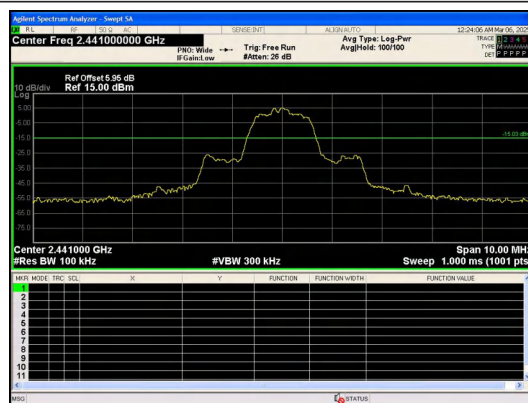
In-Band Reference Level
GFSK_DH5_Channel 39



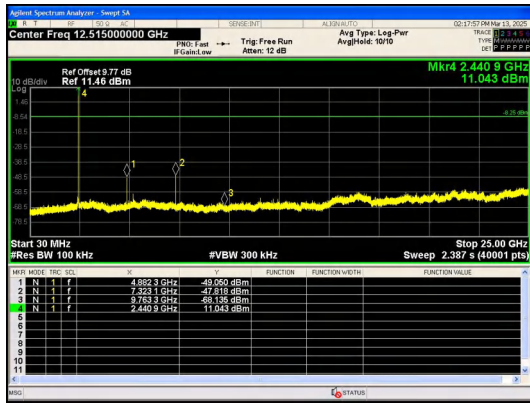
In-Band Reference Level
 $\pi/4$ DQPSK_2-DH1_Channel 39



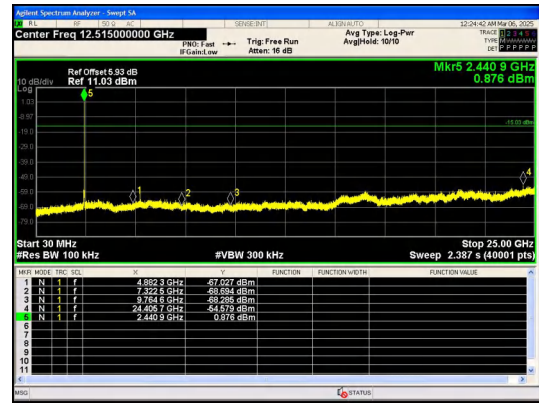
Out Of Band Emission
GFSK_DH5_Channel 39



Out Of Band Emission
 $\pi/4$ DQPSK_2-DH1_Channel 39



30.0 MHz - 25000.0 MHz
GFSK_DH5_Channel 39



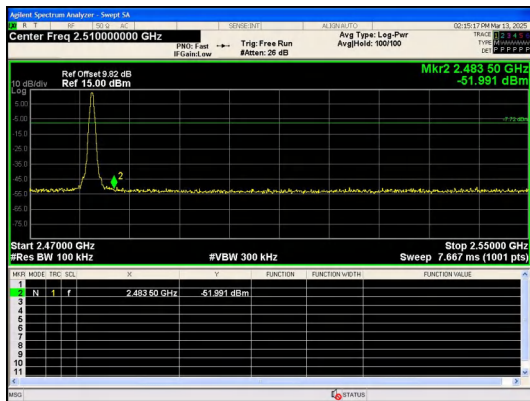
30.0 MHz - 25000.0 MHz
 $\pi/4$ DQPSK_2-DH1_Channel 39



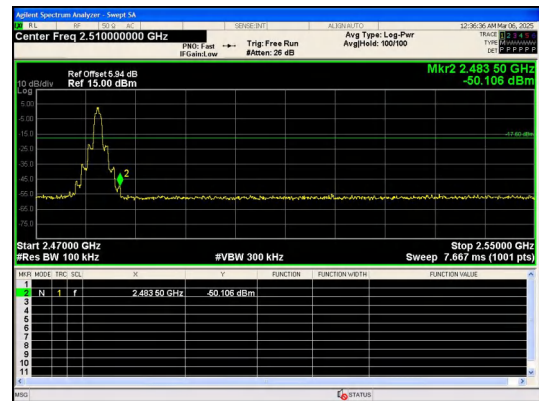
In-Band Reference Level
GFSK_DH5_Channel 78



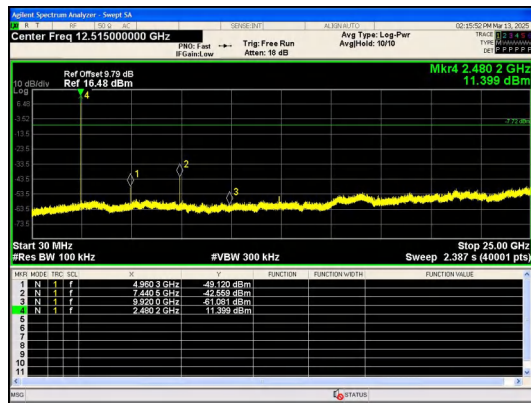
In-Band Reference Level
 $\pi/4$ DQPSK_2-DH1_Channel 78



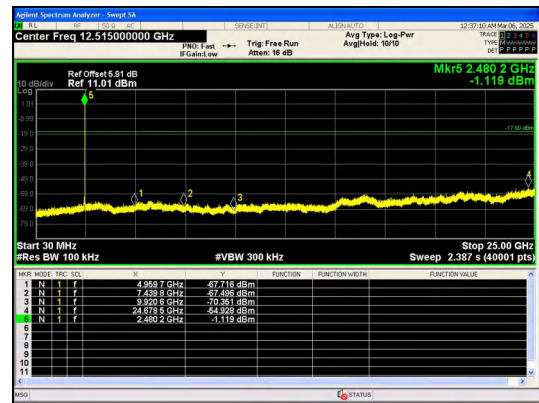
Out Of Band Emission
GFSK_DH5_Channel 78



Out Of Band Emission
 $\pi/4$ DQPSK_2-DH1_Channel 78



30.0 MHz - 25000.0 MHz
GFSK_DH5_Channel 78



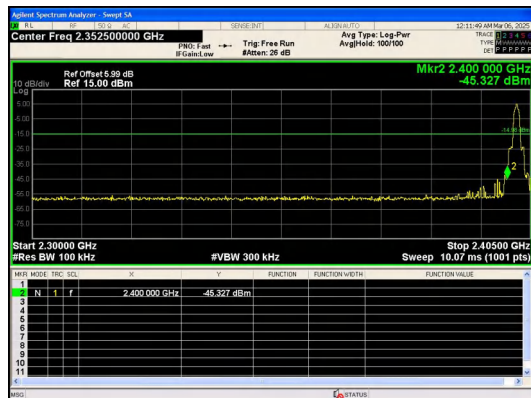
30.0 MHz - 25000.0 MHz
 $\pi/4$ DQPSK_2-DH1_Channel 78



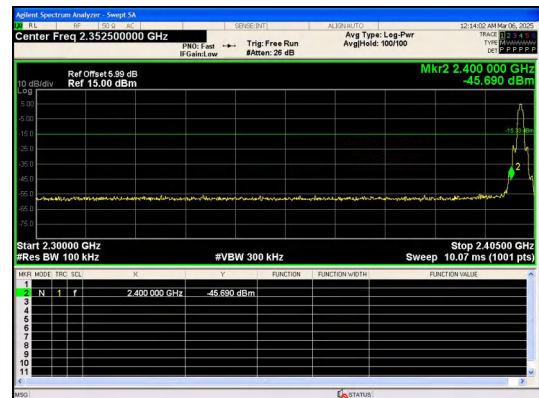
In-Band Reference Level
 $\pi/4$ DQPSK_2-DH3_Channel 0



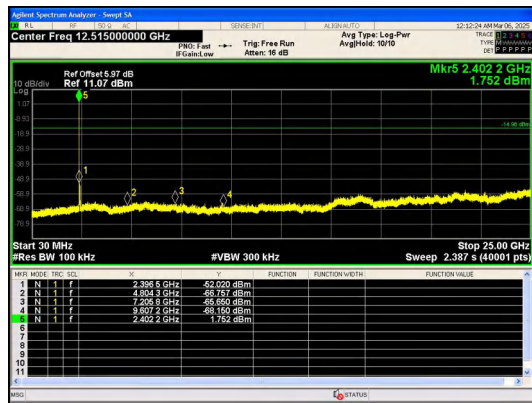
In-Band Reference Level
 $\pi/4$ DQPSK_2-DH5_Channel 0



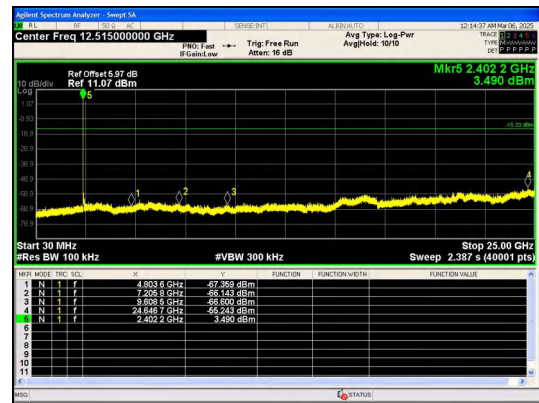
Out Of Band Emission
 $\pi/4$ DQPSK_2-DH3_Channel 0



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



30.0 MHz - 25000.0 MHz
 $\pi/4$ DQPSK_2-DH3_Channel 0



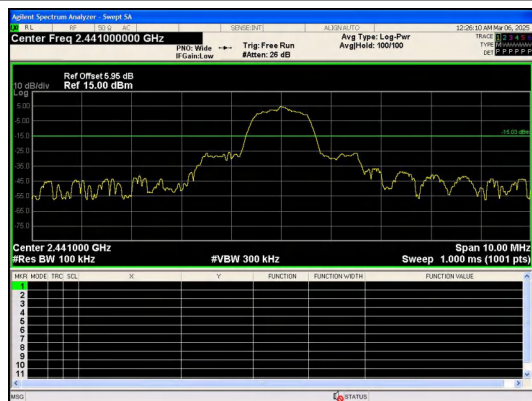
30.0 MHz - 25000.0 MHz
 $\pi/4$ DQPSK_2-DH5_Channel 0



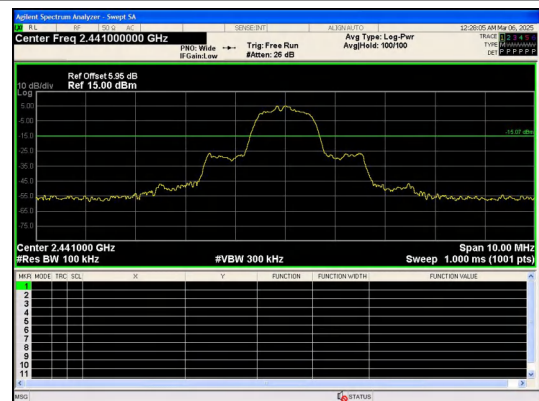
In-Band Reference Level
 $\pi/4$ DQPSK_2-DH3_Channel 39



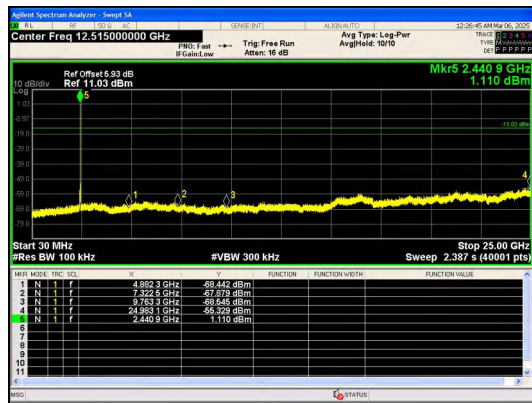
In-Band Reference Level
 $\pi/4$ DQPSK_2-DH5_Channel 39



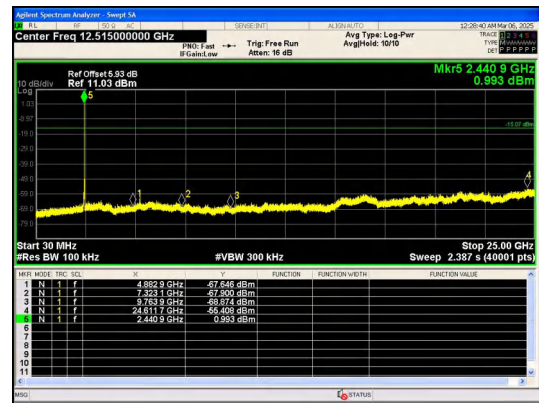
Out Of Band Emission
 $\pi/4$ DQPSK_2-DH3_Channel 39



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



30.0 MHz - 25000.0 MHz
 $\pi/4$ DQPSK_2-DH3_Channel 39



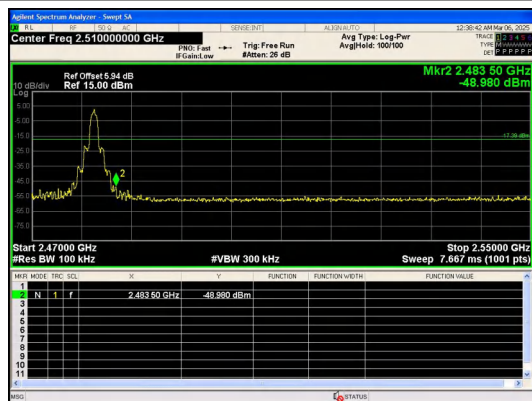
30.0 MHz - 25000.0 MHz
 $\pi/4$ DQPSK_2-DH5_Channel 39



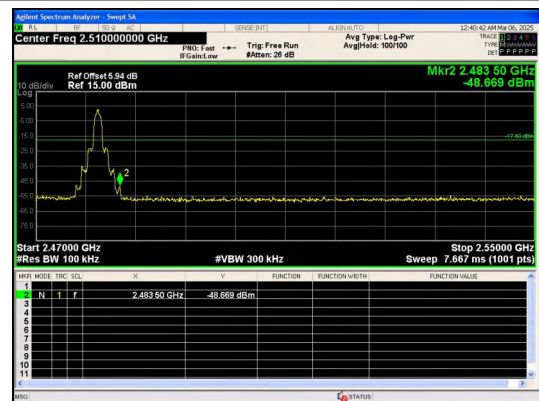
In-Band Reference Level
 $\pi/4$ DQPSK_2-DH3_Channel 78



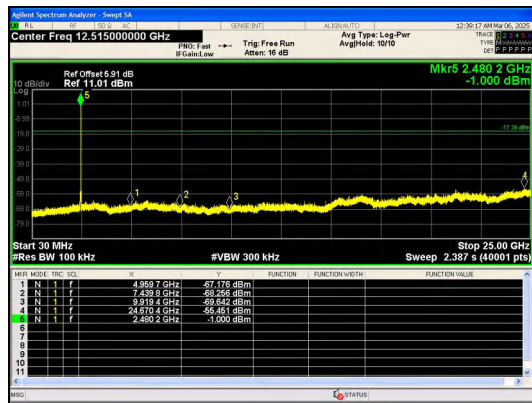
In-Band Reference Level
 $\pi/4$ DQPSK_2-DH5_Channel 78



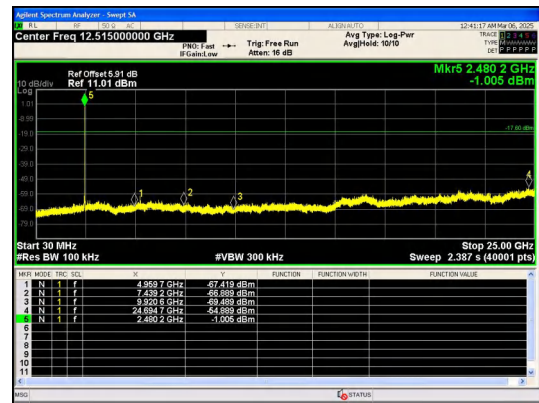
Out Of Band Emission
 $\pi/4$ DQPSK_2-DH3_Channel 78



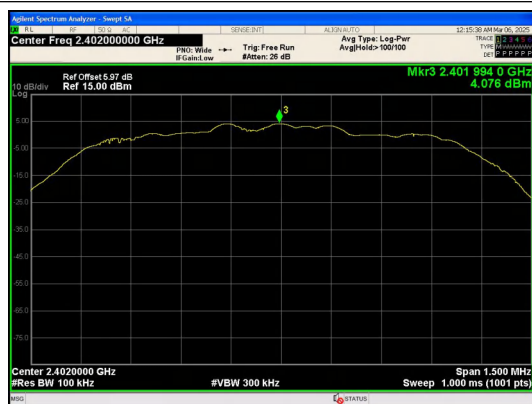
Out Of Band Emission
 $\pi/4$ DQPSK_2-DH5_Channel 78



30.0 MHz - 25000.0 MHz
 $\pi/4$ DQPSK_2-DH3_Channel 78



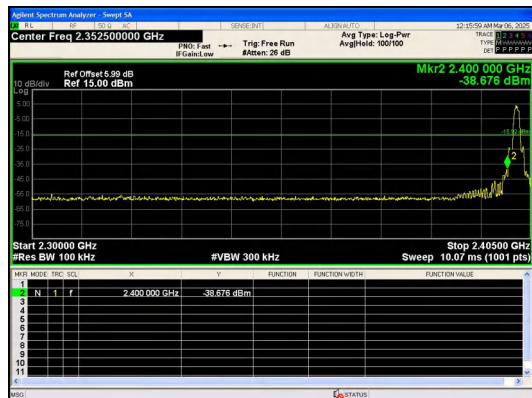
30.0 MHz - 25000.0 MHz
 $\pi/4$ DQPSK_2-DH5_Channel 78



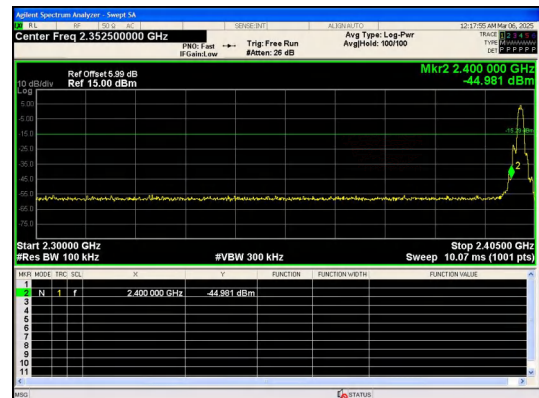
In-Band Reference Level
8DPSK_3-DH1_Channel 0



In-Band Reference Level
8DPSK_3-DH3_Channel 0



Out Of Band Emission
8DPSK_3-DH1_Channel 0



Out Of Band Emission
8DPSK_3-DH3_Channel 0