

APPENDIX V. Conducted Out Of Band Emission

Test Result

Non-Hopping

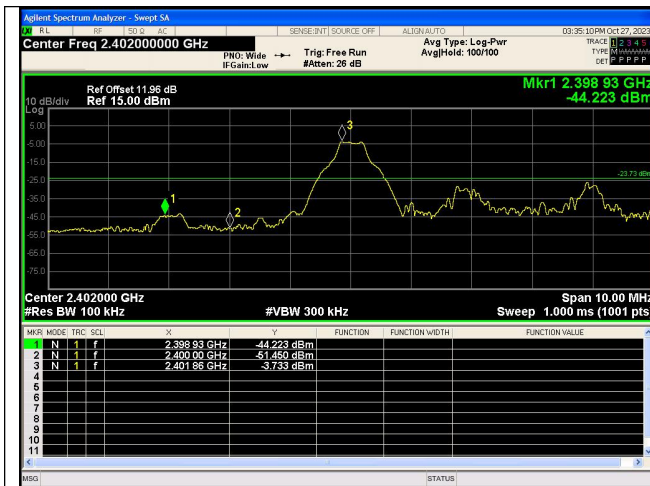
Modulation	Packet	Channel	OOB Emission Frequency (MHz)	OOB Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result
GFSK	DH5	0	2400.00	-51.450	-23.73	-27.720	PASS
			2398.93	-44.223	-23.73	-20.493	PASS
			4804.40	-51.550	-23.73	-27.820	PASS
			7206.60	-61.906	-23.73	-38.176	PASS
			9607.50	-60.325	-23.73	-36.595	PASS
			24948.8	-45.747	-23.73	-22.017	PASS
		39	4881.79	-49.664	-25.51	-24.154	PASS
			7323.92	-60.905	-25.51	-35.395	PASS
			9764.80	-61.711	-25.51	-36.201	PASS
			24887.6	-45.436	-25.51	-19.926	PASS
		78	2483.50	-49.432	-27.74	-21.692	PASS
			4960.45	-51.688	-27.74	-23.948	PASS
			7439.41	-62.961	-27.74	-35.221	PASS
			9920.24	-62.988	-27.74	-35.248	PASS
			24965.7	-45.808	-27.74	-18.068	PASS
$\pi/4$ DQPSK	2-DH5	0	2400.00	-50.679	-23.81	-26.869	PASS
			2398.85	-44.383	-23.81	-20.573	PASS
			4803.80	-50.924	-23.81	-27.114	PASS
			7205.90	-62.725	-23.81	-38.915	PASS
			9607.50	-62.251	-23.81	-38.441	PASS
			24963.8	-46.641	-23.81	-22.831	PASS
		39	4882.42	-55.496	-25.41	-30.086	PASS
			7323.30	-62.824	-25.41	-37.414	PASS
			9764.80	-62.625	-25.41	-37.215	PASS
			24895.8	-45.799	-25.41	-20.389	PASS
		78	2483.50	-48.667	-27.72	-20.947	PASS
			4959.83	-54.551	-27.72	-26.831	PASS
			7440.66	-63.963	-27.72	-36.243	PASS
			9919.62	-62.862	-27.72	-35.142	PASS
			24929.5	-45.272	-27.72	-17.552	PASS
8DPSK	3-DH5	0	2400.00	-51.419	-23.74	-27.679	PASS
			2399.00	-45.356	-23.74	-21.616	PASS
			4803.80	-49.114	-23.74	-25.374	PASS
			7206.60	-62.472	-23.74	-38.732	PASS
			9608.70	-63.262	-23.74	-39.522	PASS

			24994.4	-46.296	-23.74	-22.556	PASS
		39	4881.79	-57.206	-25.4	-31.806	PASS
			7323.30	-62.902	-25.4	-37.502	PASS
			9763.55	-63.407	-25.4	-38.008	PASS
			24905.1	-44.677	-25.4	-19.277	PASS
		78	2483.50	-48.362	-27.62	-20.742	PASS
			4959.83	-51.675	-27.62	-24.055	PASS
			7439.41	-62.288	-27.62	-34.668	PASS
			9920.86	-63.049	-27.62	-35.429	PASS
			24963.8	-44.852	-27.62	-17.232	PASS

Hopping

Modulation	Packet	Channel	OOB Emission Frequency (MHz)	OOB Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result
GFSK	DH5	Hopping	2398.96	-45.078	-23.85	-21.228	PASS
			2400.00	-45.454	-23.85	-21.604	PASS
			2483.50	-50.518	-27.83	-22.688	PASS
			2400.00	-43.833	-23.87	-19.963	PASS
			2483.50	-49.149	-27.76	-21.389	PASS
			2400.00	-45.106	-23.89	-21.216	PASS
			2483.50	-49.288	-27.72	-21.568	PASS
$\pi/4$ DQPSK	2-DH5		2400.00	-47.553	-24.15	-23.403	PASS
			2483.50	-48.188	-27.71	-20.478	PASS
			2400.00	-46.690	-23.85	-22.840	PASS
			2483.50	-50.250	-27.79	-22.460	PASS
			2400.00	-46.236	-23.89	-22.346	PASS
			2483.50	-50.320	-27.8	-22.520	PASS
8DPSK	3-DH5		2400.00	-44.868	-23.89	-20.978	PASS
			2483.50	-48.836	-27.77	-21.066	PASS
			2400.00	-46.370	-23.86	-22.510	PASS
			2483.50	-49.710	-27.78	-21.930	PASS
			2400.00	-46.245	-23.94	-22.305	PASS
			2483.50	-51.113	-27.79	-23.323	PASS

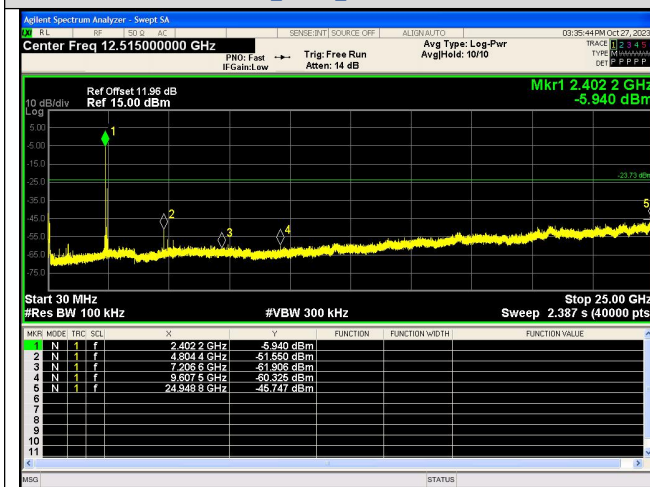
Test Graphs



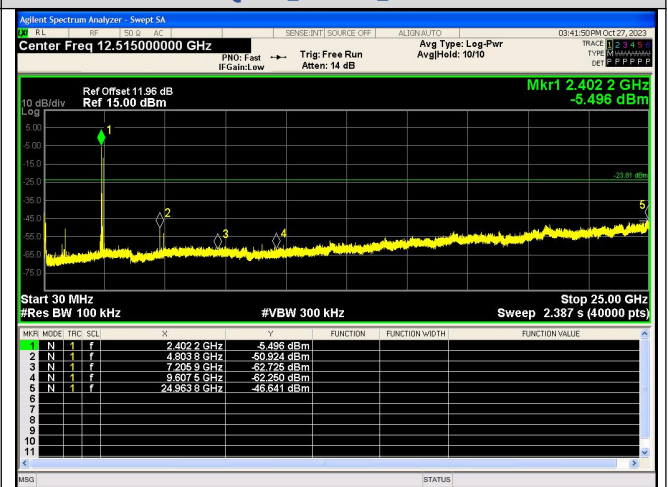
Out Of Band Emission
GFSK_DH5_Channel 0



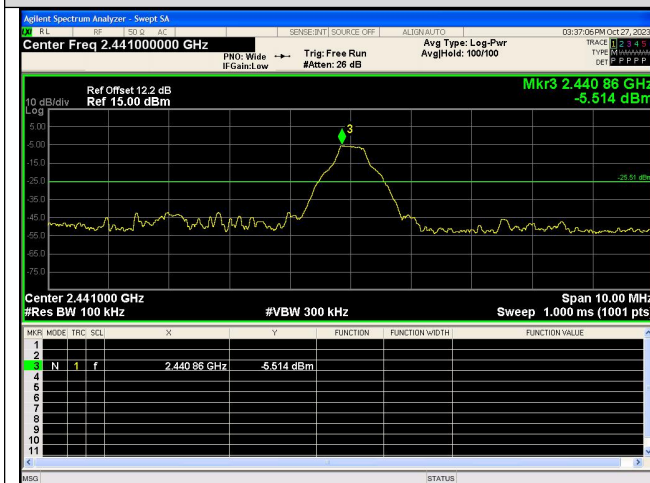
Out Of Band Emission
 $\pi/4$ DQPSK_2-DH5_Channel 0



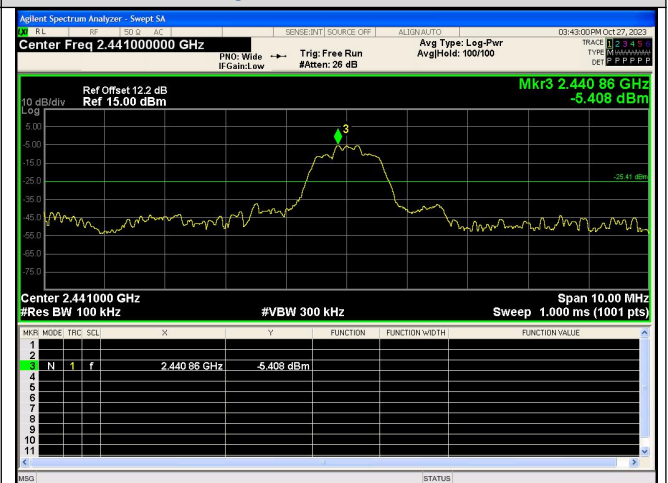
Spurious Emission
GFSK_DH5_Channel 0



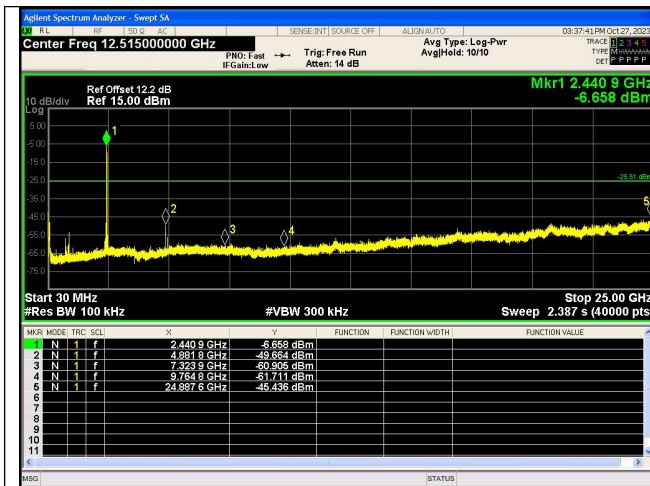
Spurious Emission
 $\pi/4$ DQPSK_2-DH5_Channel 0



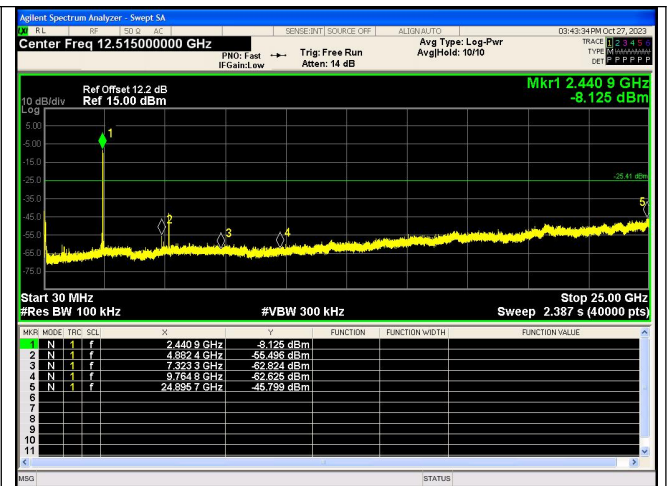
Out Of Band Emission
GFSK_DH5_Channel 39



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



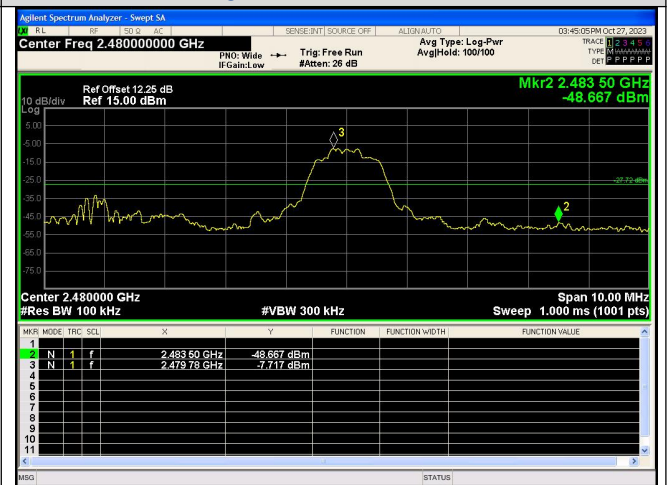
Spurious Emissions
GFSK_DH5_Channel 39



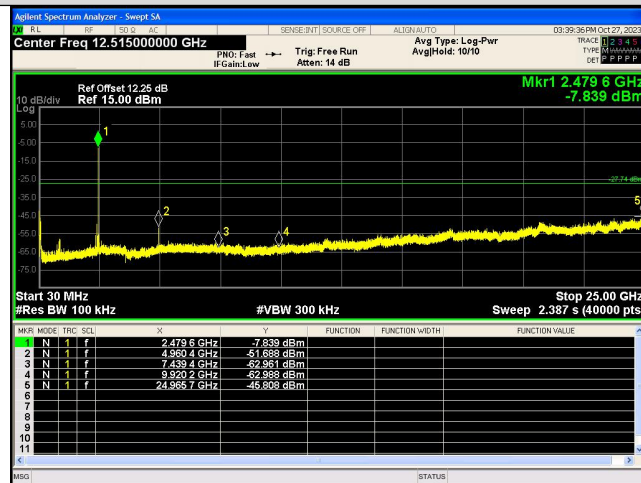
Spurious Emissions
 $\pi/4$ DQPSK_2-DH5_Channel 39



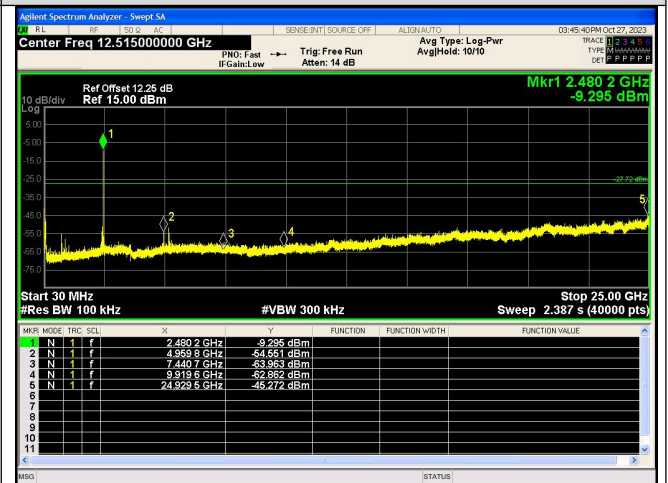
Out Of Band Emission
GFSK_DH5_Channel 78



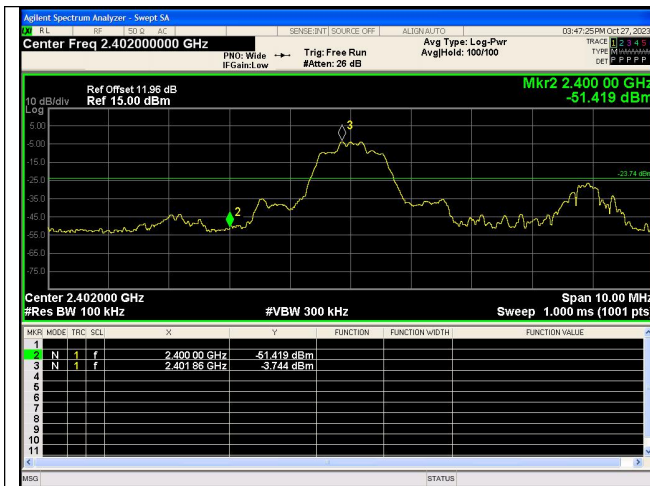
Out Of Band Emission
 $\pi/4$ DQPSK_2-DH5_Channel 78



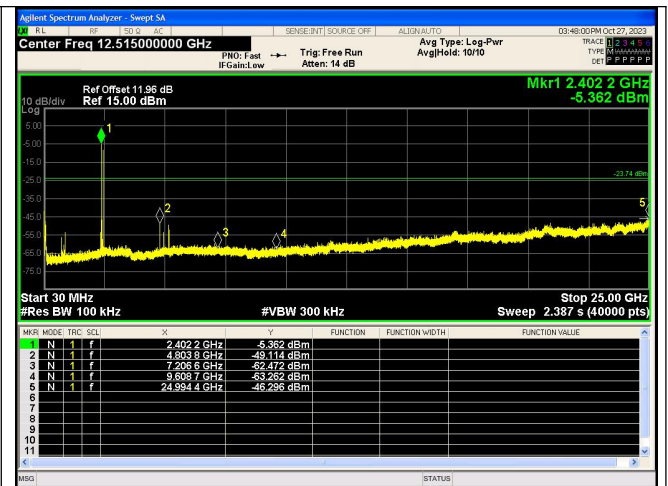
Spurious Emission
GFSK_DH5_Channel 78



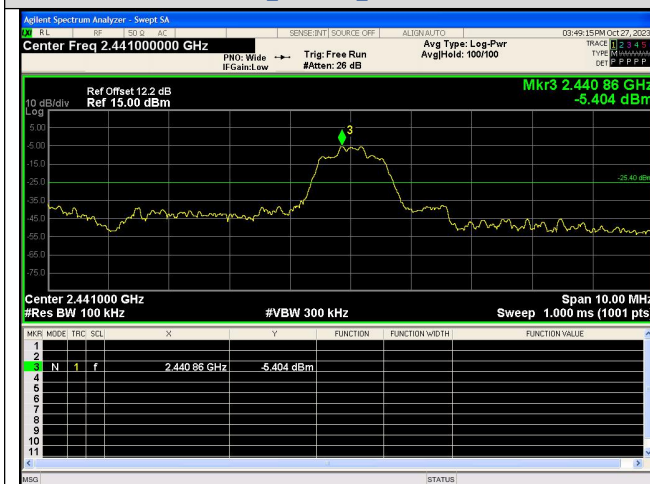
Spurious Emission
 $\pi/4$ DQPSK_2-DH5_Channel 78



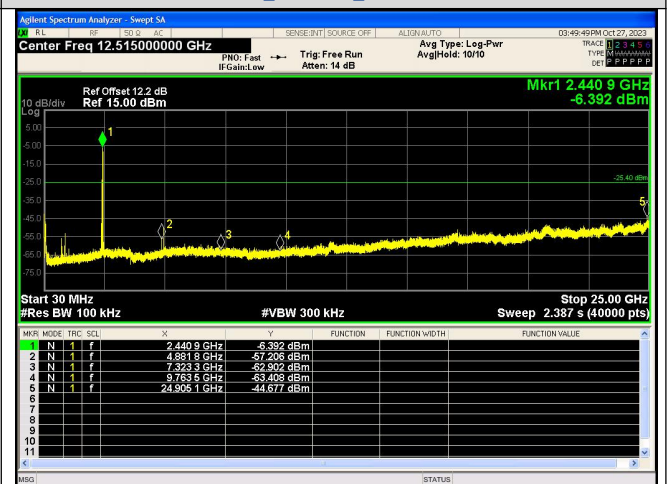
Out Of Band Emission
8DPSK_3-DH5_Channel 0



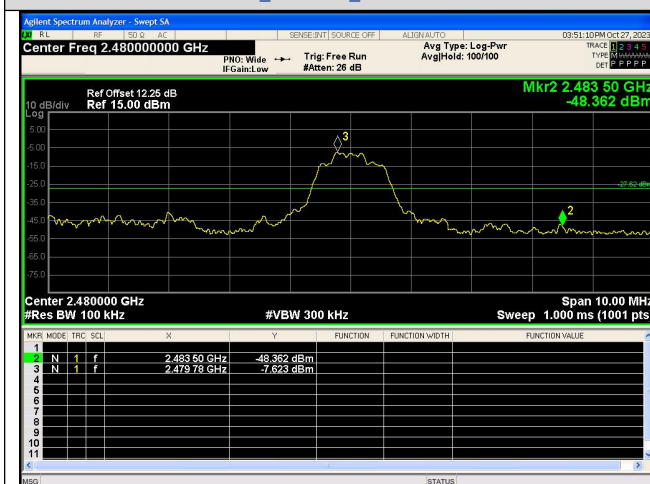
Spurious Emission
8DPSK_3-DH5_Channel 0



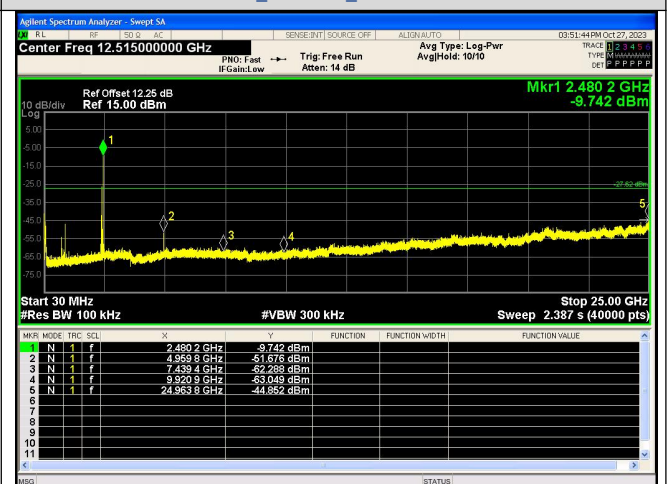
Out Of Band Emission
8DPSK_3-DH5_Channel 39



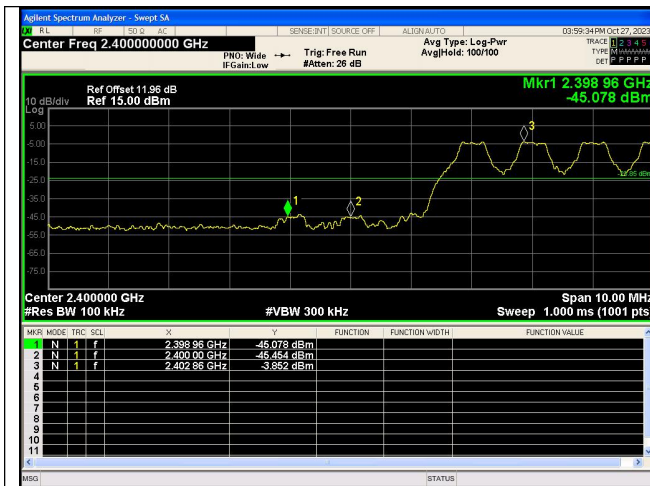
Spurious Emissions
8DPSK_3-DH5_Channel 39



Out Of Band Emission
8DPSK_3-DH5_Channel 78



Spurious Emission
8DPSK_3-DH5_Channel 78



Out Of Band Emission(Left)
GFSK_DH5_Channel Hopping



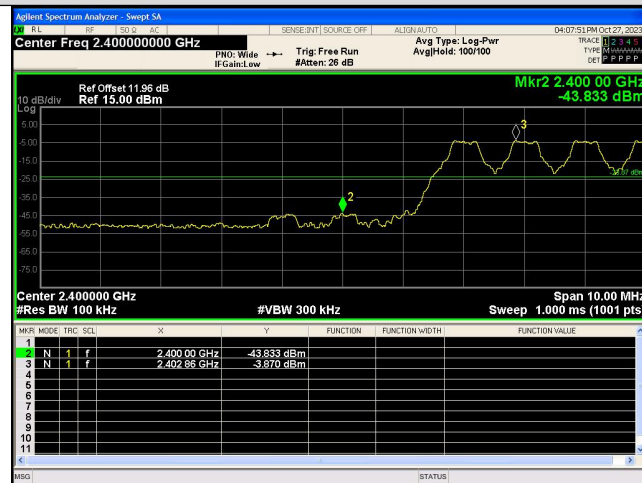
Out Of Band Emission(Left)
 $\pi/4$ DQPSK_2-DH5_Channel Hopping



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)
GFSK_DH5_Channel Hopping



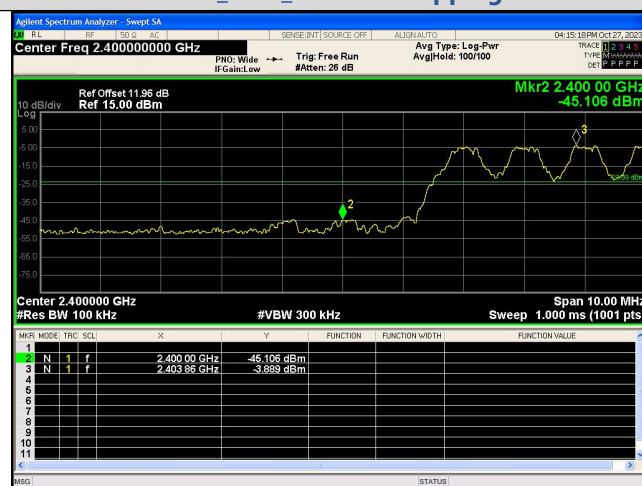
Out Of Band Emission(Left)
 $\pi/4$ DQPSK_2-DH5_Channel Hopping



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)
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



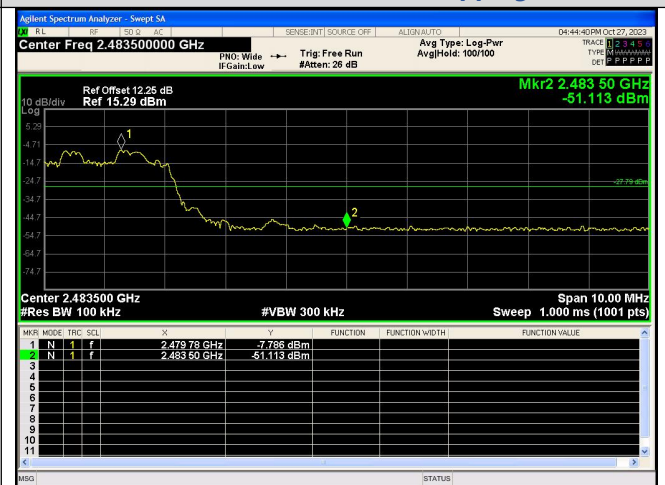
Out Of Band Emission(Left)
8DPSK_3-DH5_Channel Hopping



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



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



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

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	0.294	1.245	23.61	0.2361	6.269
		39	0.295	1.242	23.74	0.2374	6.2452
		78	0.450	0.987	45.59	0.4559	3.4113
π /4DQPSK	2-DH5	0	0.294	1.248	23.56	0.2356	6.2782
		39	0.294	1.245	23.61	0.2361	6.269
		78	0.087	0.258	33.72	0.3372	4.7211
8DPSK	3-DH5	0	0.297	1.248	23.80	0.2380	6.2342
		39	0.294	1.245	23.61	0.2361	6.269
		78	0.087	0.258	33.72	0.3372	4.7211

Test Graphs

