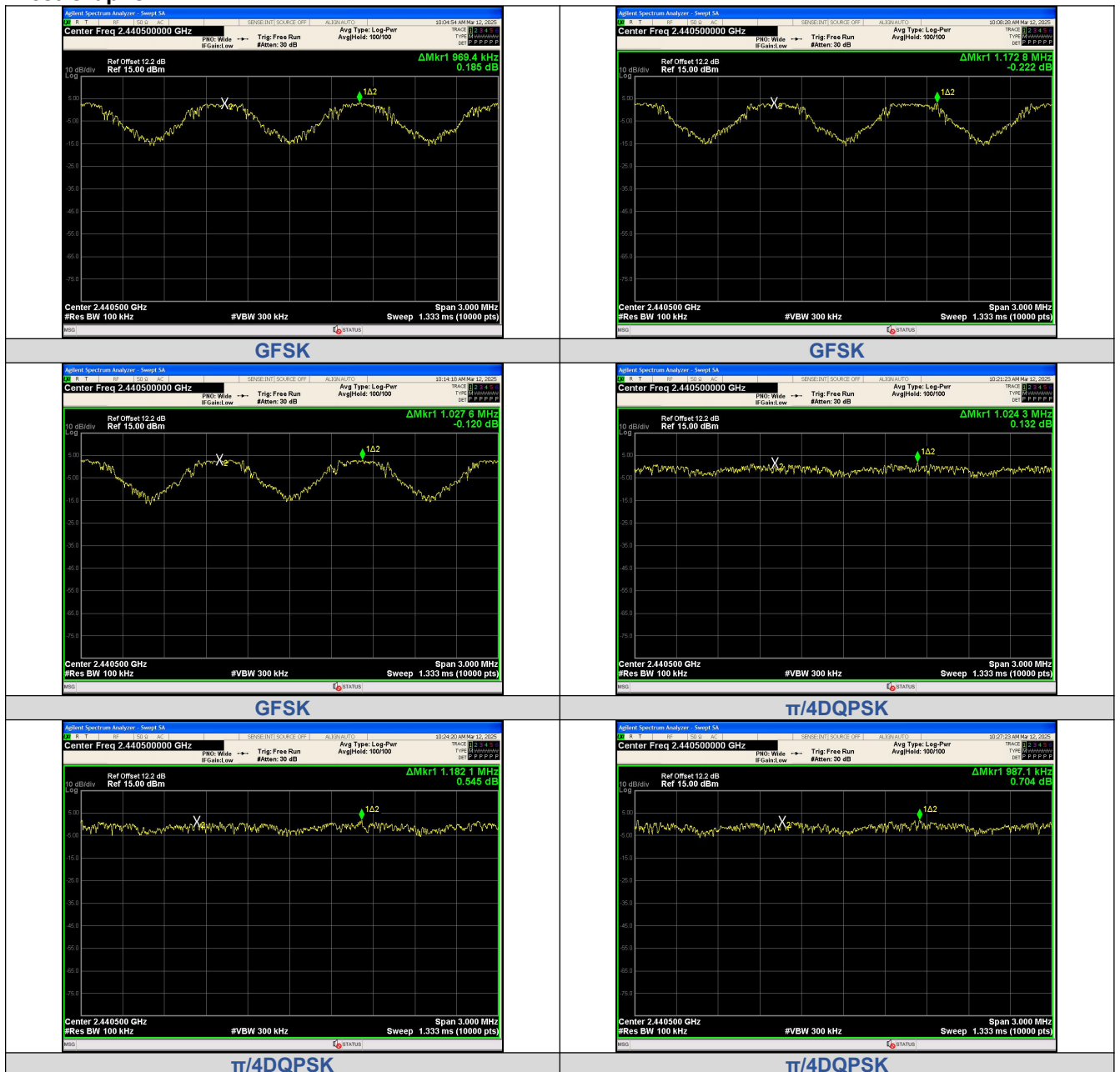


APPENDIX IV. Carrier Frequencies Separation

Test Result

Modulation	Packet	Left Center frequency (MHz)	Right Center frequency (MHz)	Hopping Frequency Separation (MHz)	Limit (MHz)	Result
GFSK	DH5	2440.033	2441.0024	0.9694	0.682	PASS
GFSK	DH5	2440.0009	2441.1737	1.1728	0.648	PASS
GFSK	DH5	2439.9955	2441.0231	1.0276	0.687	PASS
$\pi/4$ DQPSK	2-DH5	2440.0072	2441.0315	1.0243	0.904	PASS
$\pi/4$ DQPSK	2-DH5	2439.8344	2441.0165	1.1821	0.907	PASS
$\pi/4$ DQPSK	2-DH5	2440.0591	2441.0462	0.9871	0.905	PASS
8DPSK	3-DH5	2439.9316	2440.9373	1.0057	0.895	PASS
8DPSK	3-DH5	2439.8239	2440.9427	1.1188	0.895	PASS
8DPSK	3-DH5	2439.9643	2440.9685	1.0042	0.894	PASS

Test Graphs





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	-44.319	-21.43	-22.889	PASS
			4003.35	-40.418	-21.43	-18.988	PASS
			4804.26	-43.952	-21.43	-22.522	PASS
			7205.75	-59.284	-21.43	-37.854	PASS
			9607.87	-51.822	-21.43	-30.392	PASS
		39	4882.30	-40.154	-20.99	-19.164	PASS
			7323.11	-57.531	-20.99	-36.541	PASS
			9763.93	-50.488	-20.99	-29.498	PASS
		78	2483.50	-51.450	-21.01	-30.440	PASS
			4133.20	-43.002	-21.01	-21.992	PASS
			4959.70	-44.041	-21.01	-23.030	PASS
			7439.85	-54.742	-21.01	-33.732	PASS
			9919.99	-52.642	-21.01	-31.632	PASS
$\pi/4$ DQPSK	2-DH5	0	2400.00	-42.448	-22.62	-19.828	PASS
			4003.35	-43.422	-22.62	-20.802	PASS
			4804.26	-44.441	-22.62	-21.821	PASS
			7205.75	-58.385	-22.62	-35.765	PASS
			9607.87	-51.491	-22.62	-28.871	PASS
		39	4882.30	-43.809	-22.3	-21.509	PASS
			7322.49	-58.411	-22.3	-36.111	PASS
			9763.93	-49.297	-22.3	-26.997	PASS
		78	2483.50	-49.923	-22.21	-27.713	PASS
			4959.70	-42.603	-22.21	-20.393	PASS
			7439.85	-59.312	-22.21	-37.102	PASS
			9919.99	-51.987	-22.21	-29.777	PASS
8DPSK	3-DH5	0	2400.00	-42.502	-22.53	-19.972	PASS
			4003.35	-42.245	-22.53	-19.715	PASS
			4804.26	-46.220	-22.53	-23.690	PASS
			7206.38	-58.164	-22.53	-35.634	PASS
			9607.87	-50.965	-22.53	-28.435	PASS
		39	4882.30	-43.203	-22.12	-21.083	PASS
			7323.11	-56.584	-22.12	-34.464	PASS
			9763.93	-50.112	-22.12	-27.992	PASS
		78	2483.50	-51.049	-22.07	-28.979	PASS
			4960.33	-43.922	-22.07	-21.852	PASS
			7439.85	-58.132	-22.07	-36.062	PASS
			9919.99	-51.837	-22.07	-29.767	PASS

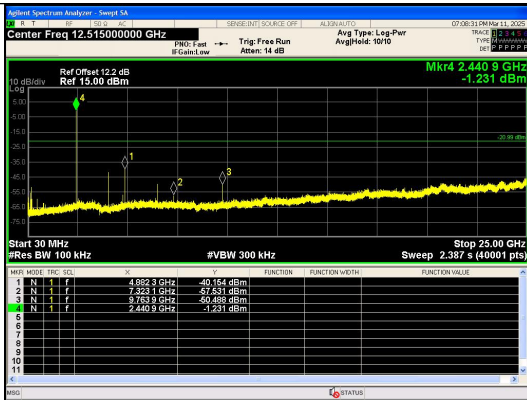
Hopping

Hopping							
Modulation	Packet	Channel	OOB Emission Frequency (MHz)	OOB Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result
GFSK	DH5	Hopping	2398.33	-45.919	-17.09	-28.829	PASS
			2400.00	-50.168	-17.09	-33.078	PASS
			2483.50	-46.108	-16.54	-29.568	PASS
			2400.00	-45.609	-16.88	-28.729	PASS
			2483.50	-50.785	-16.48	-34.305	PASS
			2400.00	-40.170	-17.17	-23.000	PASS
			2483.50	-52.100	-16.71	-35.390	PASS
π/4DQPSK	2-DH5		2398.92	-44.923	-18.28	-26.643	PASS
			2400.00	-51.670	-18.28	-33.390	PASS
			2483.50	-51.432	-18.55	-32.882	PASS
			2397.22	-49.515	-18.55	-30.965	PASS
			2400.00	-51.640	-18.55	-33.090	PASS
			2483.50	-50.804	-17.93	-32.874	PASS
			2398.74	-46.355	-18.25	-28.105	PASS
			2400.00	-50.063	-18.25	-31.813	PASS
2483.50	-50.177		-18.01	-32.167	PASS		
8DPSK	3-DH5		2398.77	-47.239	-17.92	-29.319	PASS

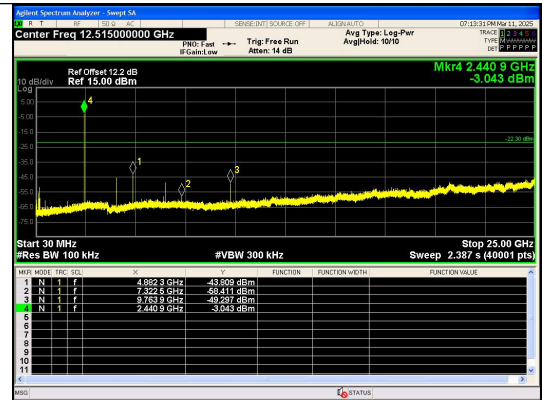
			2400.00	-51.529	-17.92	-33.609	PASS
			2483.50	-51.342	-17.68	-33.662	PASS
			2397.94	-47.870	-18.06	-29.811	PASS
			2400.00	-51.307	-18.06	-33.247	PASS
			2483.50	-51.008	-17.46	-33.548	PASS
			2398.15	-47.426	-17.95	-29.476	PASS
			2400.00	-50.619	-17.95	-32.669	PASS
			2483.50	-51.114	-17.37	-33.744	PASS

Test Graphs

Adjust Spectrum Analyzer - Screenshot SA Center Freq 2.402000000 GHz Ref Offset 11.96 dB Ref 15.00 dBm Mkr2 2.400 00 GHz -44.319 dBm PRBW: Wide Trig: Free Run Avg Type: Log-Per AvgHold: 100/100 Span 10.00 MHz #Res BW 100 kHz #VBW 300 kHz Sweep 1.000 ms (1001 pts) <table><thead><tr><th>MNR</th><th>MODE</th><th>TRC</th><th>SQL</th><th>X</th><th>Y</th><th>FUNCTION</th><th>FUNCTION WIDTH</th><th>FUNCTION VALUE</th></tr></thead><tbody><tr><td>1</td><td>N</td><td>1</td><td>f</td><td>2.400 00 GHz</td><td>-44.319 dBm</td><td></td><td></td><td></td></tr><tr><td>2</td><td>N</td><td>1</td><td>f</td><td>2.402 01 GHz</td><td>-1.434 dBm</td><td></td><td></td><td></td></tr></tbody></table> Out Of Band Emission GFSK DH5 Channel 0	MNR	MODE	TRC	SQL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE	1	N	1	f	2.400 00 GHz	-44.319 dBm				2	N	1	f	2.402 01 GHz	-1.434 dBm				Adjust Spectrum Analyzer - Screenshot SA Center Freq 2.402000000 GHz Ref Offset 11.96 dB Ref 15.00 dBm Mkr2 2.400 00 GHz -42.448 dBm PRBW: Wide Trig: Free Run Avg Type: Log-Per AvgHold: 100/100 Span 10.00 MHz #Res BW 100 kHz #VBW 300 kHz Sweep 1.000 ms (1001 pts) <table><thead><tr><th>MNR</th><th>MODE</th><th>TRC</th><th>SQL</th><th>X</th><th>Y</th><th>FUNCTION</th><th>FUNCTION WIDTH</th><th>FUNCTION VALUE</th></tr></thead><tbody><tr><td>1</td><td>N</td><td>1</td><td>f</td><td>2.400 00 GHz</td><td>-42.448 dBm</td><td></td><td></td><td></td></tr><tr><td>2</td><td>N</td><td>1</td><td>f</td><td>2.402 04 GHz</td><td>-2.624 dBm</td><td></td><td></td><td></td></tr></tbody></table> Out Of Band Emission $\pi/4$DQPSK 2-DH5 Channel 0	MNR	MODE	TRC	SQL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE	1	N	1	f	2.400 00 GHz	-42.448 dBm				2	N	1	f	2.402 04 GHz	-2.624 dBm																																																									
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30.0 MHz - 25000.0 MHz
GFSK_DH5_Channel 39



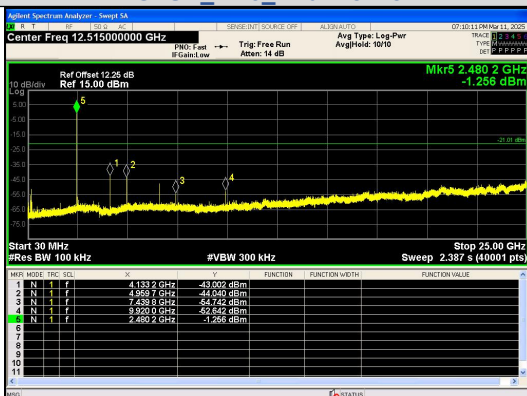
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 $\pi/4$ DQPSK_2-DH5_Channel 39



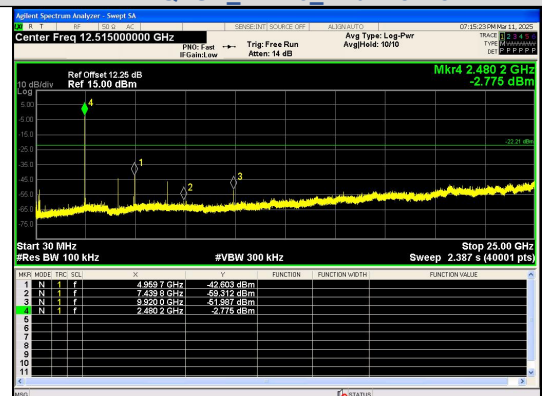
Out Of Band Emission
GFSK_DH5_Channel 78



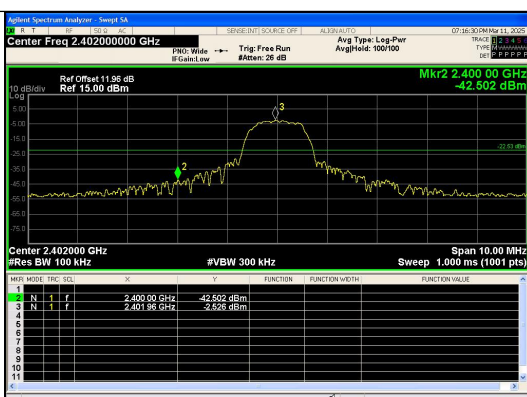
Out Of Band Emission
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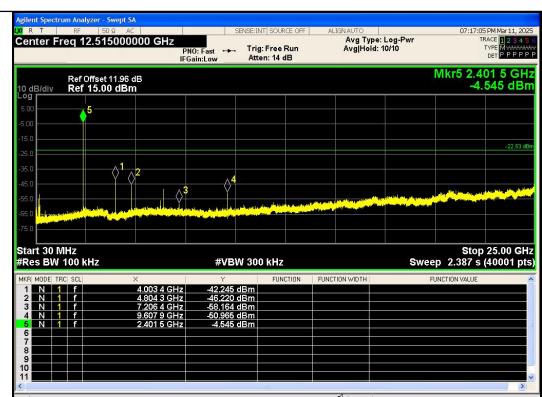
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GFSK_DH5_Channel 78



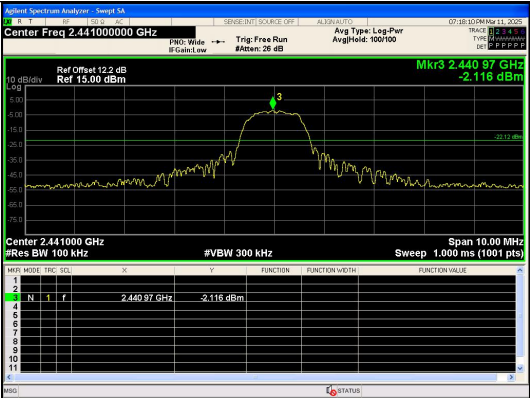
30.0 MHz - 25000.0 MHz
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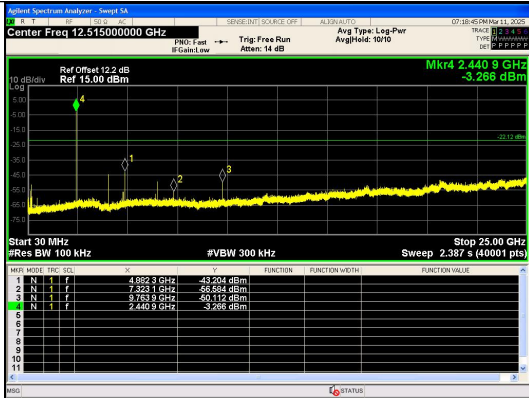
Out Of Band Emission
8DPSK_3-DH5_Channel 0



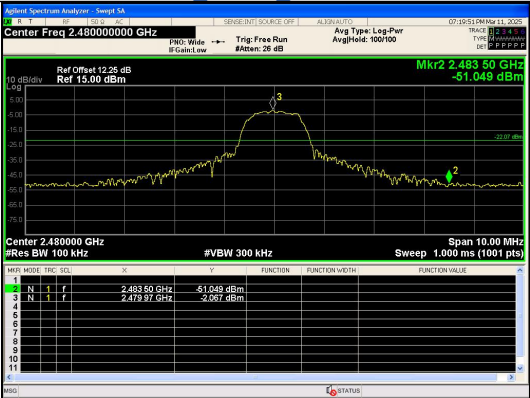
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8DPSK_3-DH5_Channel 0



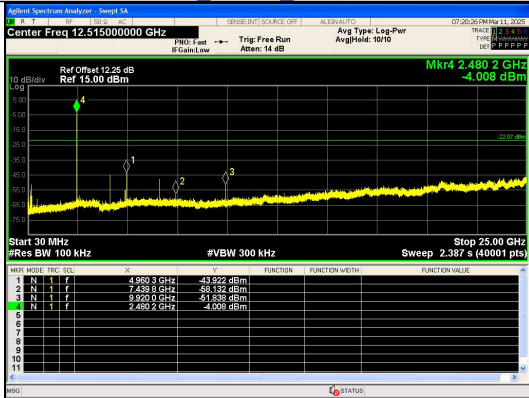
Out of Band Emission
8DPSK_3-DH5_Channel 39



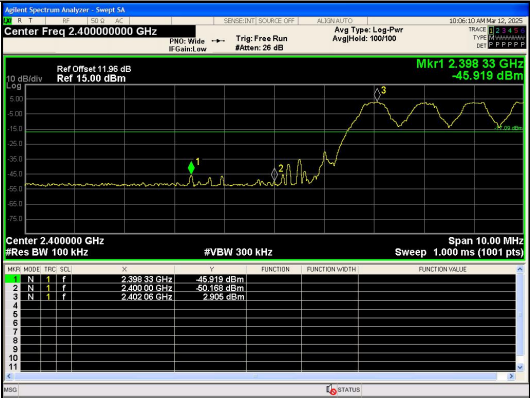
30.0 MHz - 25000.0 MHz
8DPSK_3-DH5_Channel 39



Out of Band Emission
8DPSK_3-DH5_Channel 78



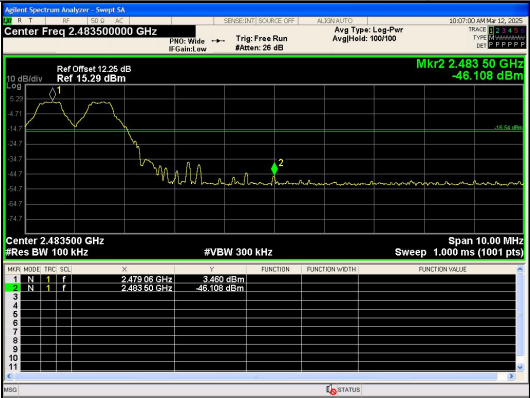
30.0 MHz - 25000.0 MHz
8DPSK_3-DH5_Channel 78



Out of Band Emission(Left)
GFSK_DH5_Channel Hopping



Out of Band Emission(Left)
 $\pi/4$ 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