

Appendix A Conduction Data for BR_EDR:

1. Conducted Peak Output Power

Test Result

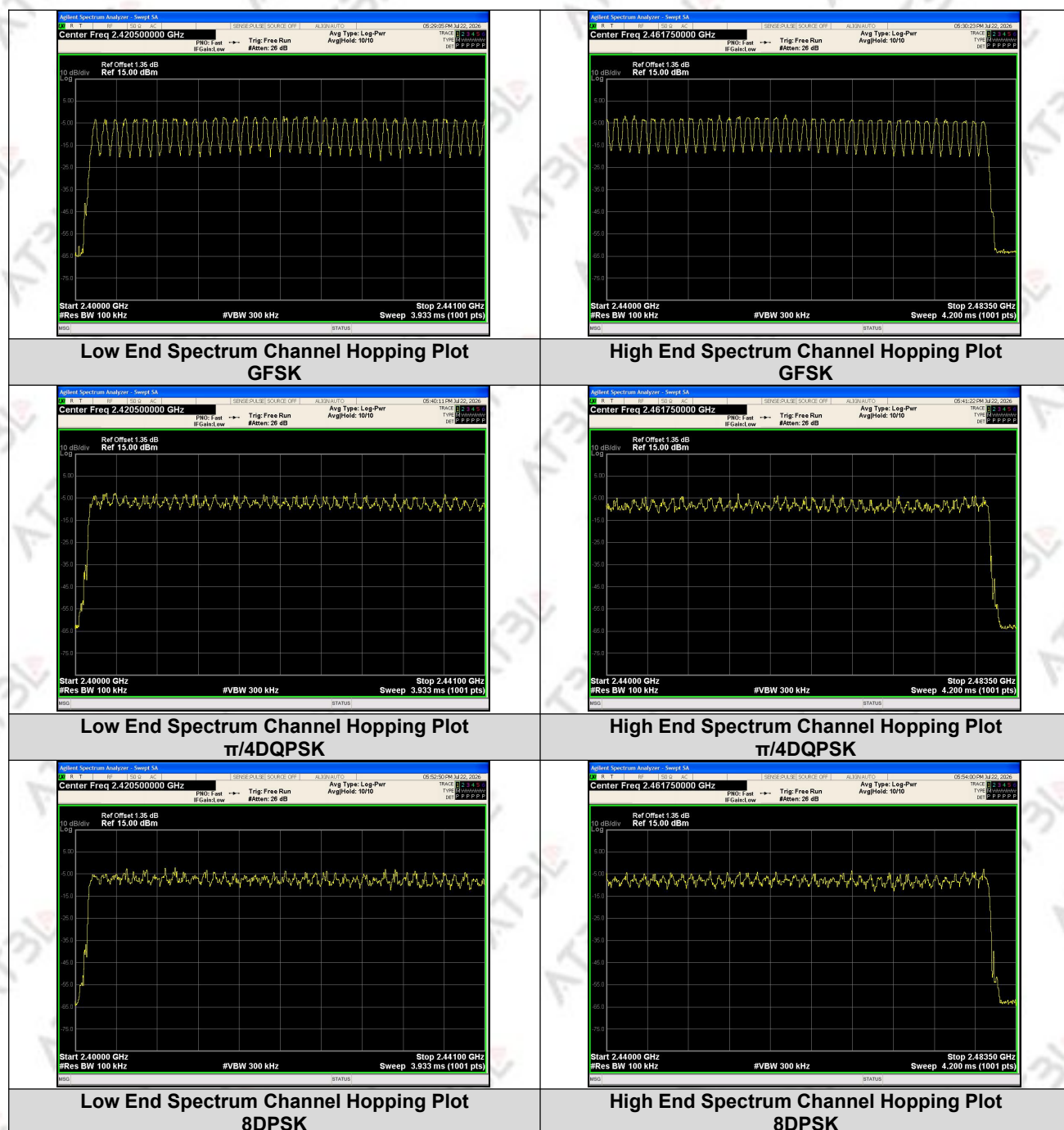
Modulation	Packet Type	Channel	Peak Output Power (dBm)	Peak Output Power Limit (dBm)	Result
GFSK	DH5	0	0.98	≤21	PASS
		39	0.92	≤21	PASS
		78	0.73	≤21	PASS
π/4DQPSK	2-DH5	0	0.98	≤21	PASS
		39	0.63	≤21	PASS
		78	0.83	≤21	PASS
8DPSK	3-DH5	0	0.99	≤21	PASS
		39	0.64	≤21	PASS
		78	0.84	≤21	PASS

2.Number of Hopping Frequencies

Test Result

Modulation	Packet	Number of Hopping Channel	Limit	Result
GFSK	DH5	79	15	PASS
$\pi/4$ DQPSK	2-DH5	79	15	PASS
8DPSK	3-DH5	79	15	PASS

Test Graphs



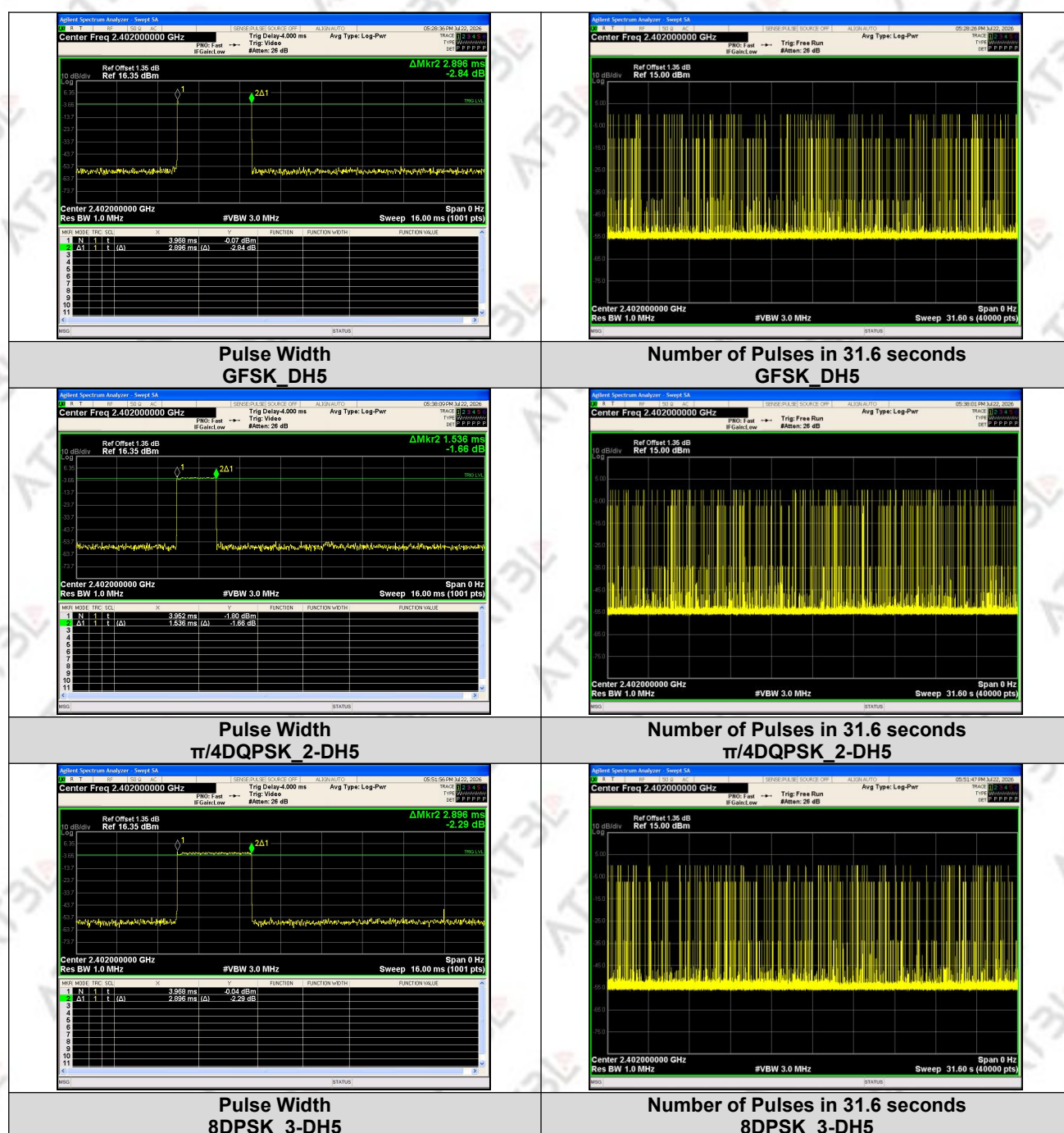
3.Dwell Time

Test Result

Modulation	Packet	Channel	Pulse Width (ms)	Number of Pulses in 31.6 seconds	Dwell Time (ms)	Limit (ms)	Result
GFSK	DH5	Hopping	2.896	101	292.5	< 400	PASS
$\pi/4$ DQPSK	2-DH5		1.536	116	178.18		PASS
8DPSK	3-DH5		2.896	93	269.33		PASS

Note: Dwell time=Pulse time(ms)*Number of Pulses in 31.6 seconds

Test Graphs

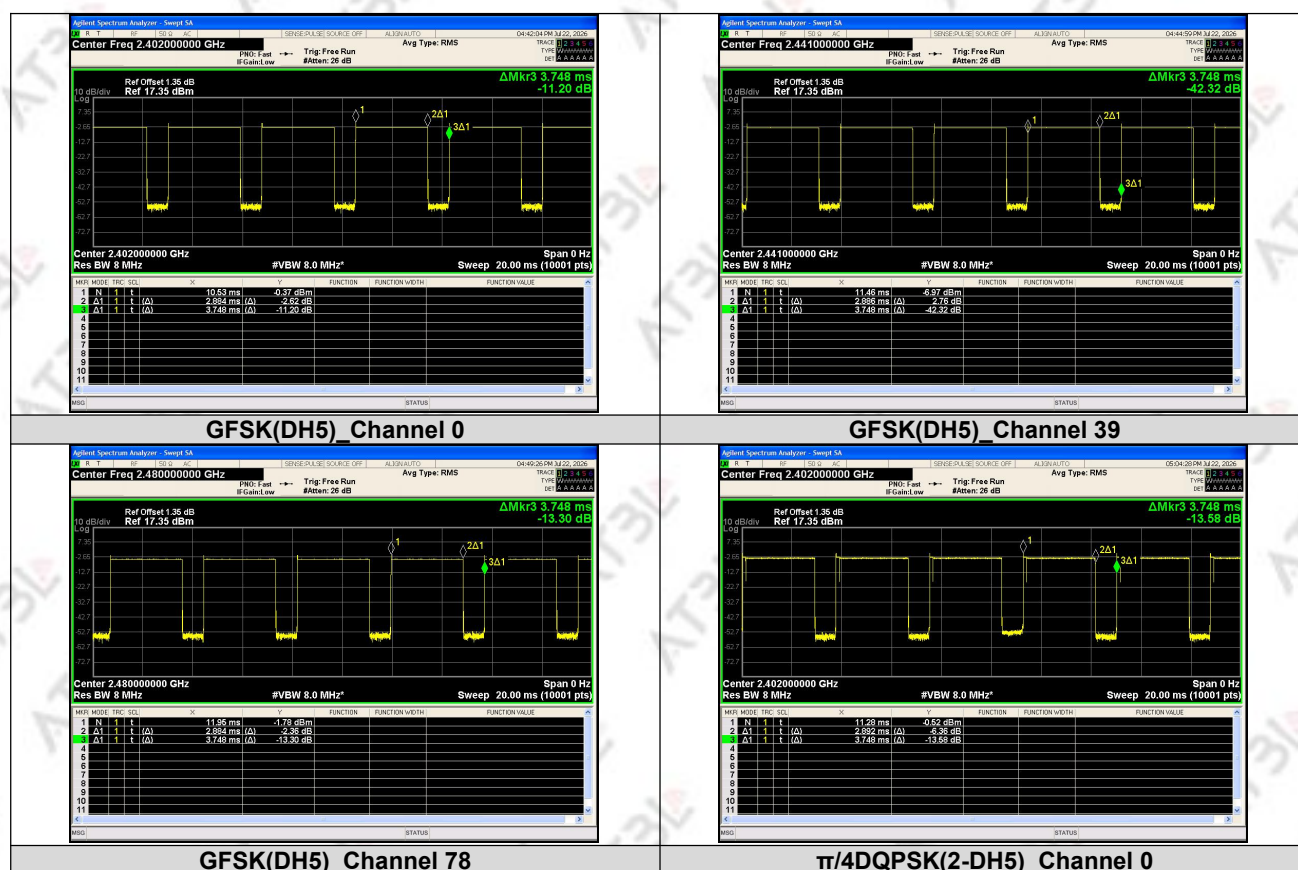


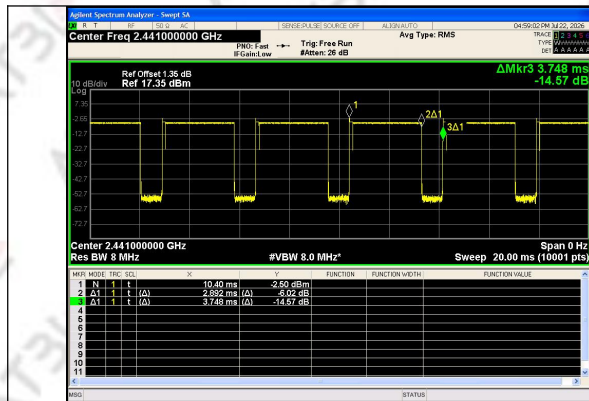
4.Duty Cycle

Test Result

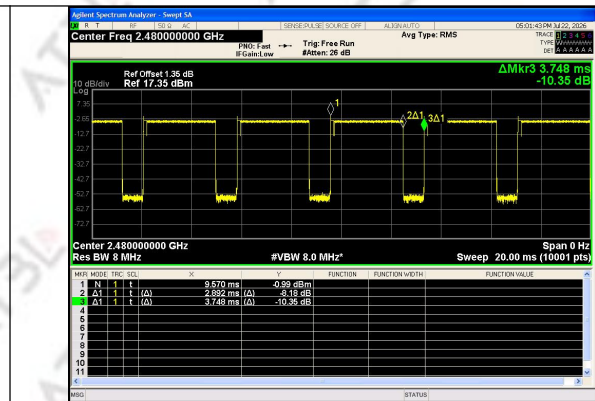
Modulation	Packets	Channel	On Time (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle (linear)	Duty Cycle Factor (dB)
GFSK	DH5	0	2.884	3.748	76.95	0.7695	1.1379
		39	2.886	3.748	77.00	0.7700	1.1351
		78	2.884	3.748	76.95	0.7695	1.1379
$\pi/4$ DQPSK	2-DH5	0	2.892	3.748	77.16	0.7716	1.1261
		39	2.892	3.748	77.16	0.7716	1.1261
		78	2.892	3.748	77.16	0.7716	1.1261
8DPSK	3-DH5	0	2.894	3.748	77.21	0.7721	1.1233
		39	2.892	3.748	77.16	0.7716	1.1261
		78	2.892	3.748	77.16	0.7716	1.1261

Test Graphs

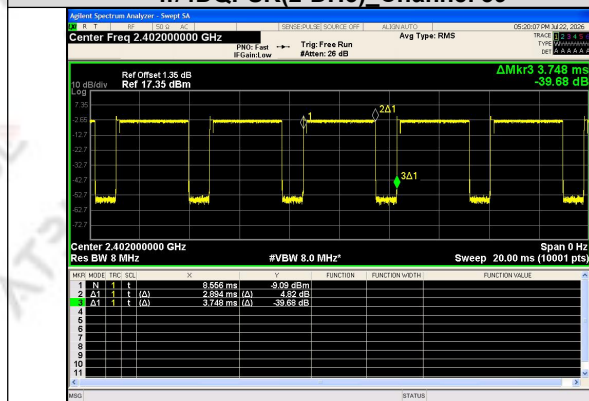




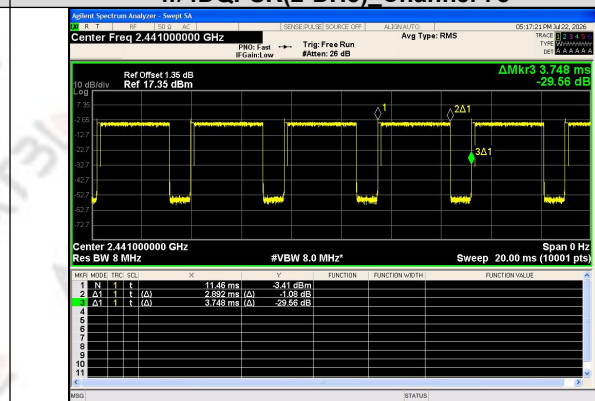
π/4DQPSK(2-DH5)_Channel 39



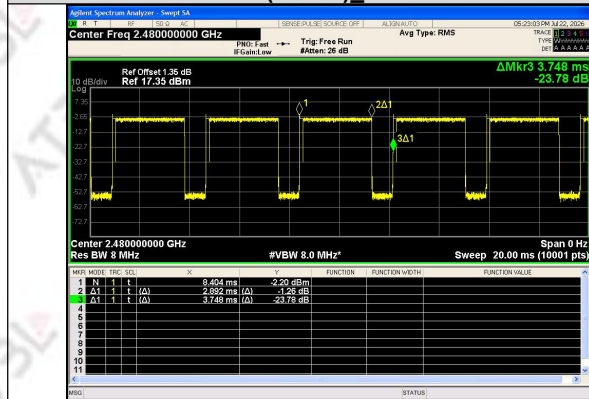
π/4DQPSK(2-DH5)_Channel 78



8DPSK(3-DH5)_Channel 0



8DPSK(3-DH5)_Channel 39



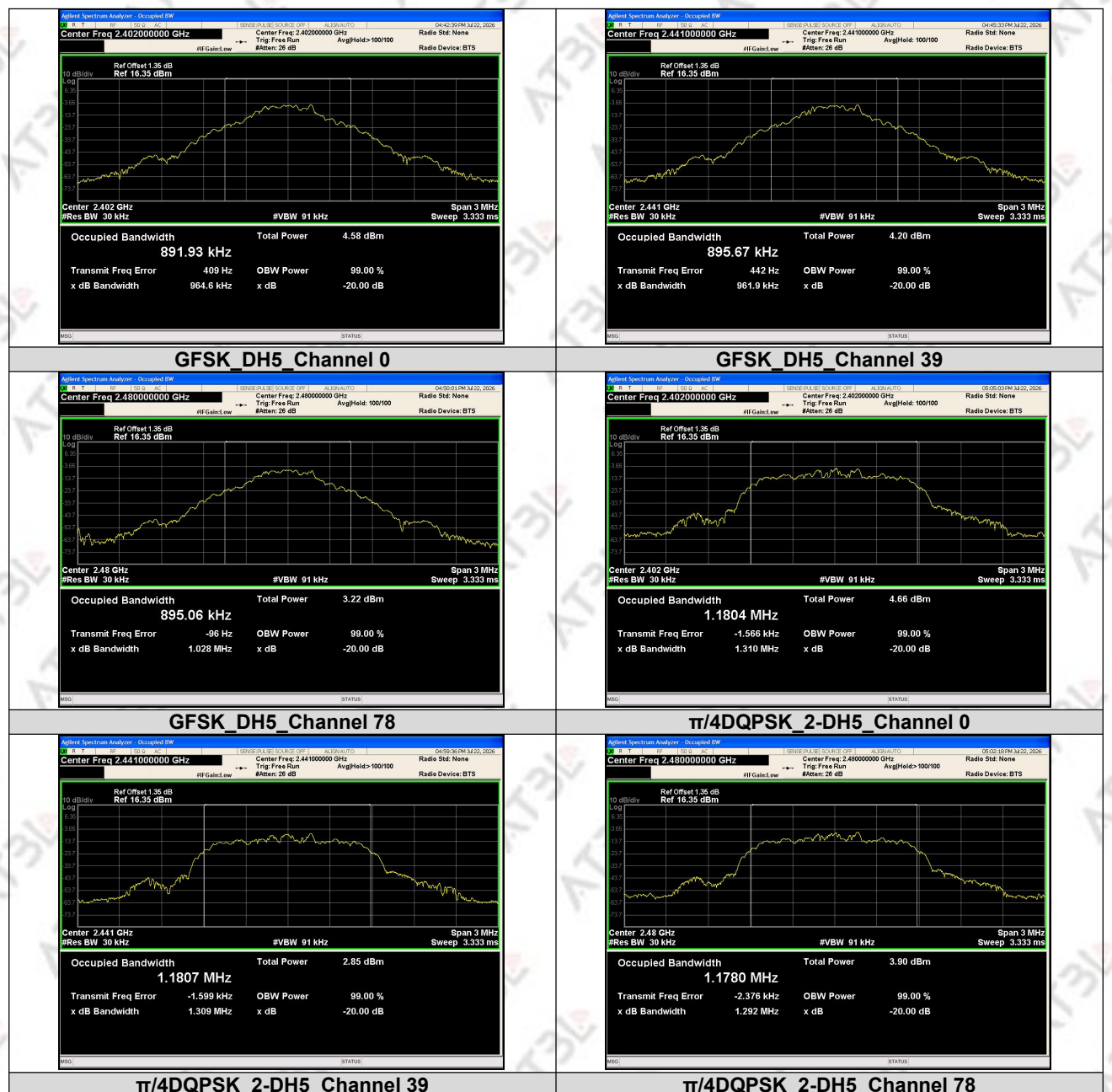
8DPSK(3-DH5)_Channel 78

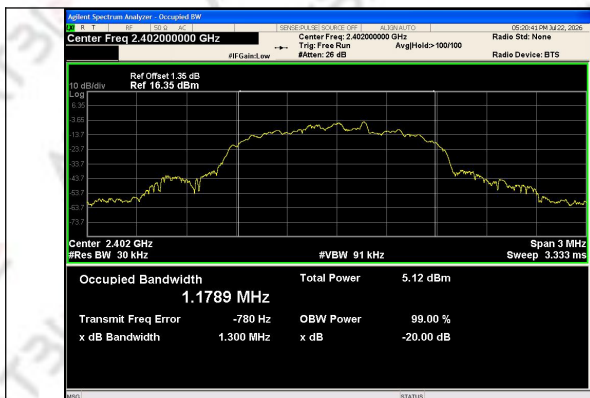
5.20dB Bandwidth

Test Result

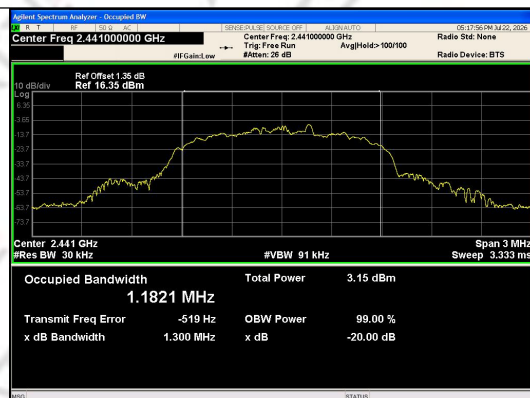
Modulation	Channel	Center Frequency (MHz)	20 dB Bandwidth (MHz)
GFSK	0	2402 MHz	0.9646
	39	2441 MHz	0.9619
	78	2480 MHz	1.028
π /4DQPSK	0	2402 MHz	1.310
	39	2441 MHz	1.309
	78	2480 MHz	1.292
8DPSK	0	2402 MHz	1.300
	39	2441 MHz	1.300
	78	2480 MHz	1.300

Test Graphs

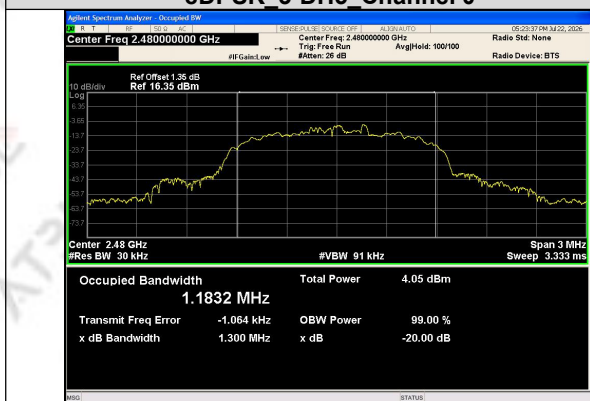




8DPSK_3-DH5_Channel 0



8DPSK_3-DH5_Channel 39



8DPSK_3-DH5_Channel 78

6.Carrier Frequencies Separation

Test Result

Modulation	Packet	Left Center frequency (MHz)	Right Center frequency (MHz)	Hopping Frequency Separation (MHz)	Limit (MHz)	Result
GFSK	DH5	2439.9934	2441.0336	1.0402	0.685	PASS
$\pi/4$ DQPSK	2-DH5	2439.8176	2440.9991	1.1815	0.873	PASS
8DPSK	3-DH5	2440.0066	2441.0201	1.0135	0.867	PASS

Test Graphs



7. Conducted Spurious & Band Edge Emission

Test Result

Modulation	Packet	Channel	OOB Emission Frequency (MHz)	OOB Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result
GFSK	DH5	0	2400.00	-61.010	-21.86	-39.150	PASS
			4804.26	-69.318	-21.86	-47.458	PASS
			7205.75	-67.496	-21.86	-45.636	PASS
			9607.24	-70.443	-21.86	-48.583	PASS
			24878.3	-54.247	-21.86	-32.387	PASS
		39	2526.38	-51.368	-22.06	-29.308	PASS
			4882.92	-68.318	-22.06	-46.258	PASS
			7323.74	-67.401	-22.06	-45.341	PASS
			9764.55	-67.995	-22.06	-45.935	PASS
		78	2483.50	-63.479	-23.11	-40.369	PASS
			4960.33	-68.762	-23.11	-45.652	PASS
			5748.13	-46.916	-23.11	-23.806	PASS
			7440.47	-66.812	-23.11	-43.702	PASS
			9919.37	-69.192	-23.11	-46.082	PASS
$\pi/4$ DQPSK	2-DH5	0	2391.08	-61.652	-21.77	-39.882	PASS
			2400.00	-62.807	-21.77	-41.037	PASS
			4804.30	-68.255	-21.77	-46.485	PASS
			5752.50	-51.984	-21.77	-30.214	PASS
			7206.40	-67.098	-21.77	-45.328	PASS
			9608.50	-68.404	-21.77	-46.634	PASS
		39	4882.92	-66.959	-23.68	-43.279	PASS
			7323.11	-67.028	-23.68	-43.348	PASS
			9763.31	-69.122	-23.68	-45.442	PASS
			24813.3	-53.686	-23.68	-30.006	PASS
		78	2483.50	-63.873	-22.7	-41.173	PASS
			4960.33	-68.071	-22.7	-45.371	PASS
			7440.47	-67.987	-22.7	-45.287	PASS
			9919.37	-69.724	-22.7	-47.023	PASS
8DPSK	3-DH5	0	24843.9	-54.420	-22.7	-31.720	PASS
			2398.34	-62.096	-21.79	-40.306	PASS
			2400.00	-63.138	-21.79	-41.348	PASS
			4803.60	-69.415	-21.79	-47.625	PASS
			5752.50	-48.138	-21.79	-26.348	PASS
			7205.80	-67.288	-21.79	-45.498	PASS
		39	9607.90	-69.298	-21.79	-47.508	PASS
			2610.03	-50.285	-23.59	-26.695	PASS
			4881.05	-66.569	-23.59	-42.979	PASS
			7323.11	-68.018	-23.59	-44.428	PASS
		78	9763.93	-67.650	-23.59	-44.060	PASS
			2483.50	-62.994	-22.52	-40.474	PASS
			4960.33	-68.349	-22.52	-45.829	PASS
			7439.85	-67.369	-22.52	-44.849	PASS
			9920.62	-68.645	-22.52	-46.125	PASS
			24871.4	-54.668	-22.52	-32.148	PASS

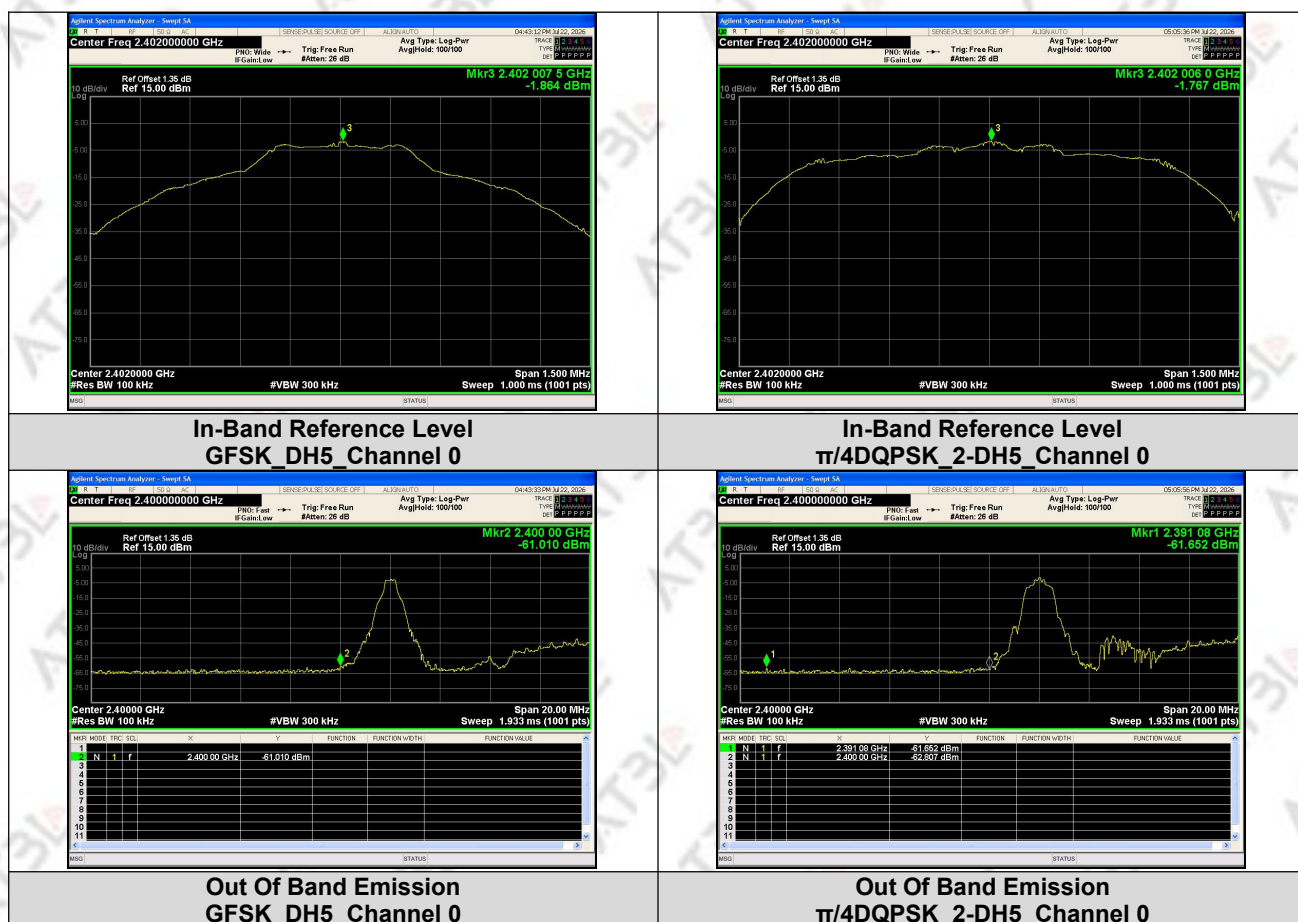
Note: input compensation coefficient (dB)= Cable Loss (dB)

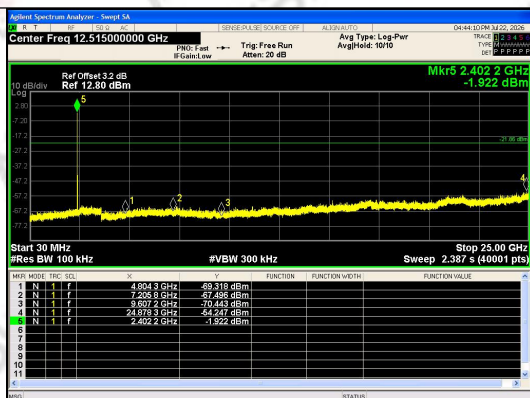
Hopping

Modulation	Packet	Channel	OOB Emission Frequency (MHz)	OOB Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result
GFSK	DH5	Hopping	2397.34	-45.461	-12.72	-32.741	PASS
			2400.00	-56.902	-12.72	-44.182	PASS
			2483.50	-45.262	-9.5	-35.762	PASS
π/4DQPSK	2-DH5		2400.00	-44.028	-13.99	-30.038	PASS
			2483.50	-41.013	-10.4	-30.613	PASS
8DPSK	3-DH5		2398.28	-36.868	-14.54	-22.328	PASS
			2400.00	-57.019	-14.54	-42.479	PASS
			2483.50	-45.947	-10.33	-35.617	PASS

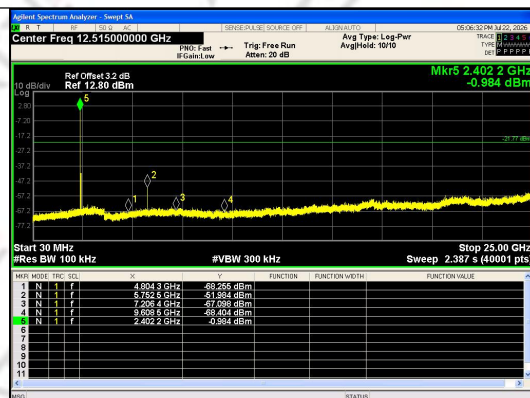
Note: input compensation coefficient (dB)= Cable Loss (dB)

Test Graphs





30.0 MHz - 25000.0 MHz
GFSK_DH5_Channel 0



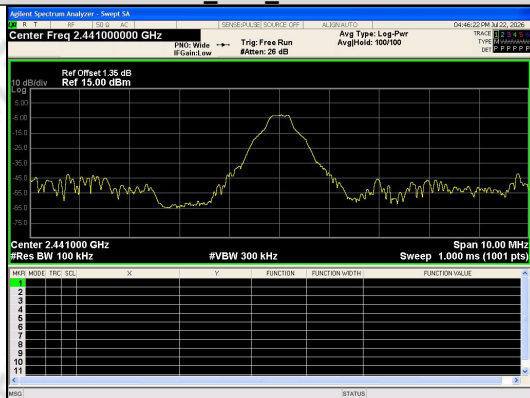
30.0 MHz - 25000.0 MHz
 $\pi/4$ DQPSK_2-DH5_Channel 0



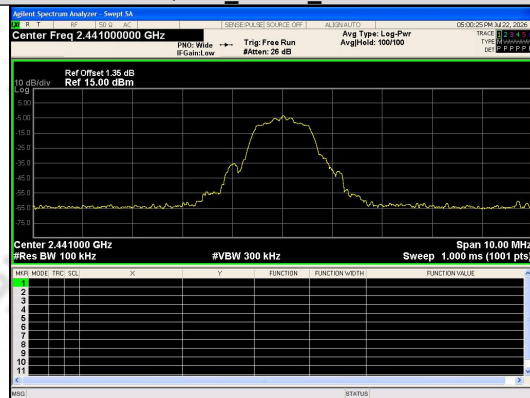
In-Band Reference Level
GFSK_DH5_Channel 39



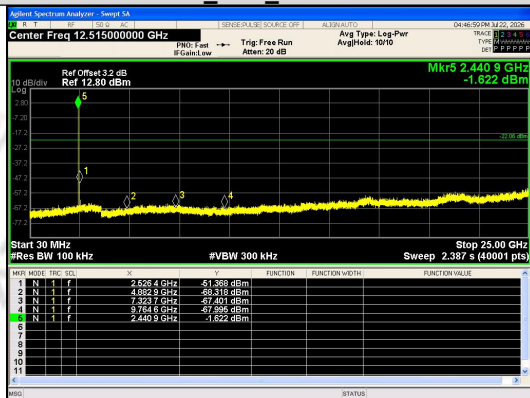
In-Band Reference Level
 $\pi/4$ DQPSK_2-DH5_Channel 39



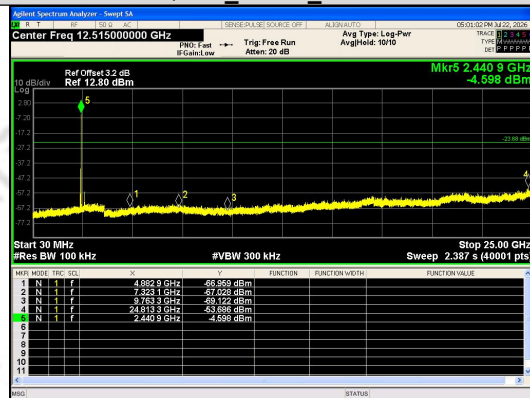
Out Of Band Emission
GFSK_DH5_Channel 39



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



30.0 MHz - 25000.0 MHz



30.0 MHz - 25000.0 MHz