

Appendix A Conduction Data for BR_EDR:

1. Conducted Peak Output Power

Test Result

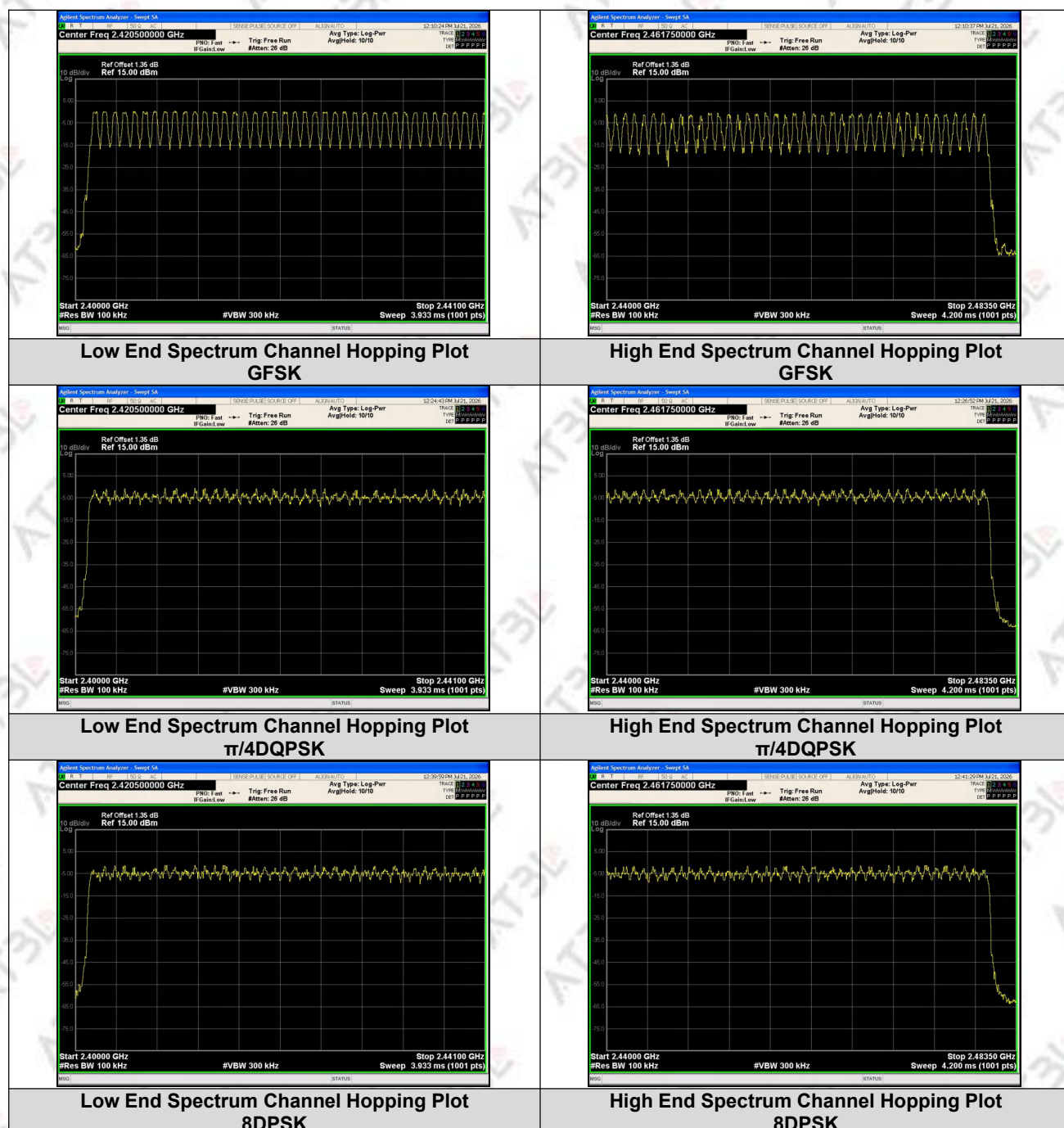
Modulation	Packet Type	Channel	Peak Output Power (dBm)	Peak Output Power Limit (dBm)	Result
GFSK	DH5	0	0.27	≤21	PASS
		39	-0.05	≤21	PASS
		78	0.06	≤21	PASS
π/4DQPSK	2-DH5	0	0.74	≤21	PASS
		39	0.40	≤21	PASS
		78	0.49	≤21	PASS
8DPSK	3-DH5	0	0.75	≤21	PASS
		39	0.45	≤21	PASS
		78	0.57	≤21	PASS

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



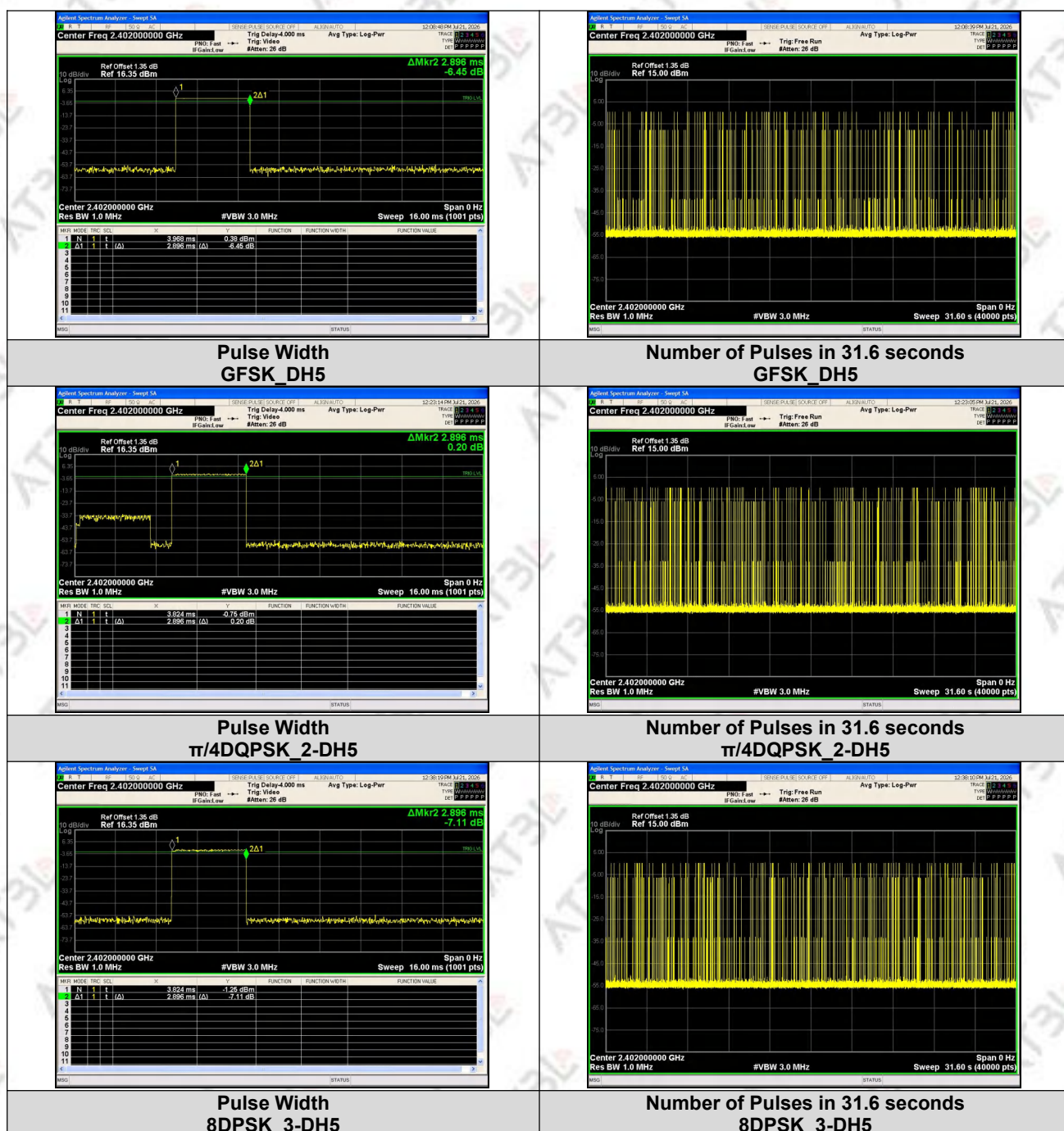
3.Dwell Time

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	126	364.9	< 400	PASS
$\pi/4$ DQPSK	2-DH5		2.896	102	295.39		PASS
8DPSK	3-DH5		2.896	115	333.04		PASS

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

Test Graphs

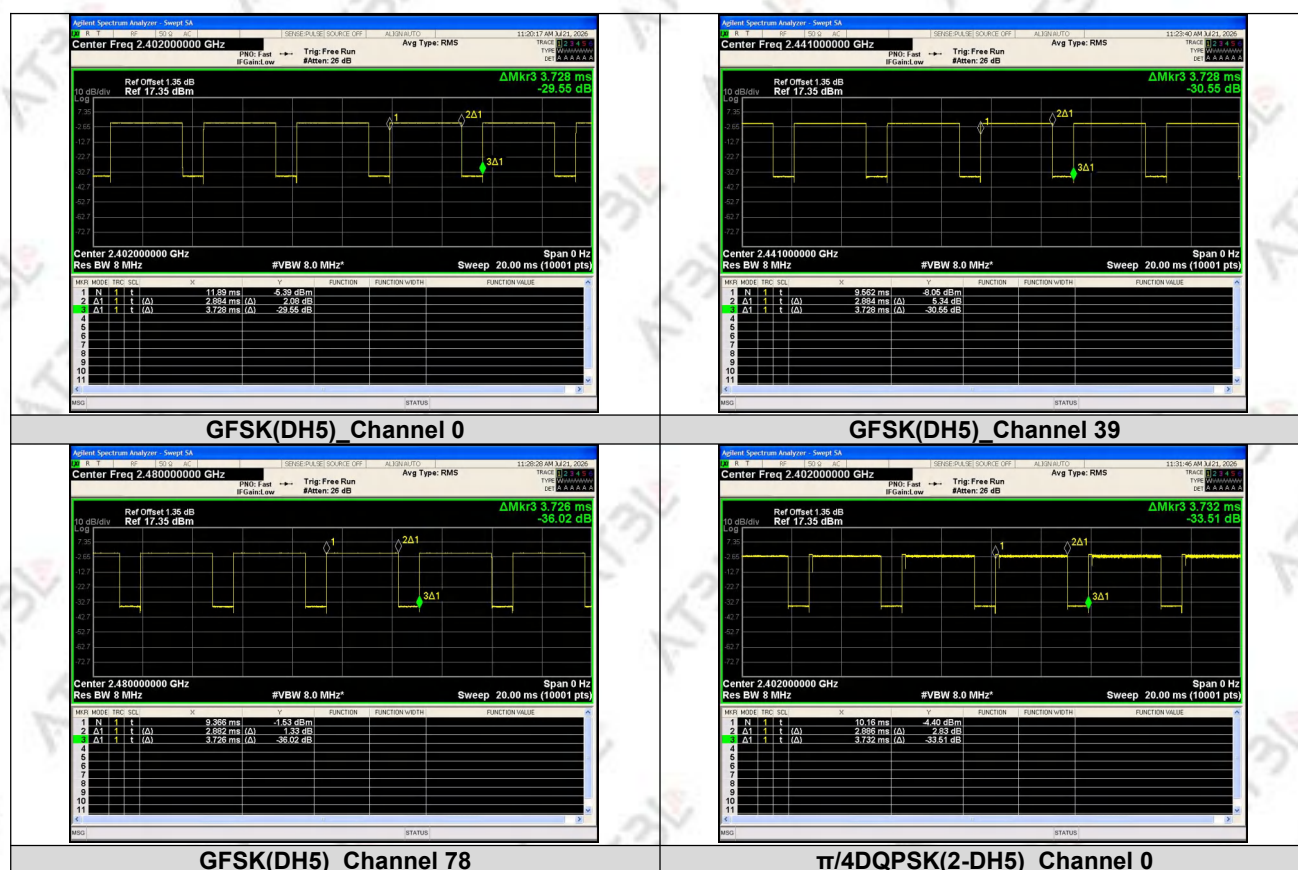


4.Duty Cycle

Test Result

Modulation	Packets	Channel	On Time (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle (linear)	Duty Cycle Factor (dB)
GFSK	DH5	0	2.884	3.728	77.36	0.7736	1.1148
		39	2.884	3.728	77.36	0.7736	1.1148
		78	2.882	3.726	77.35	0.7735	1.1154
$\pi/4$ DQPSK	2-DH5	0	2.886	3.732	77.33	0.7733	1.1165
		39	2.886	3.732	77.33	0.7733	1.1165
		78	2.888	3.732	77.38	0.7738	1.1137
8DPSK	3-DH5	0	2.890	3.734	77.40	0.7740	1.1126
		39	2.888	3.734	77.34	0.7734	1.116
		78	2.890	3.734	77.40	0.7740	1.1126

Test Graphs



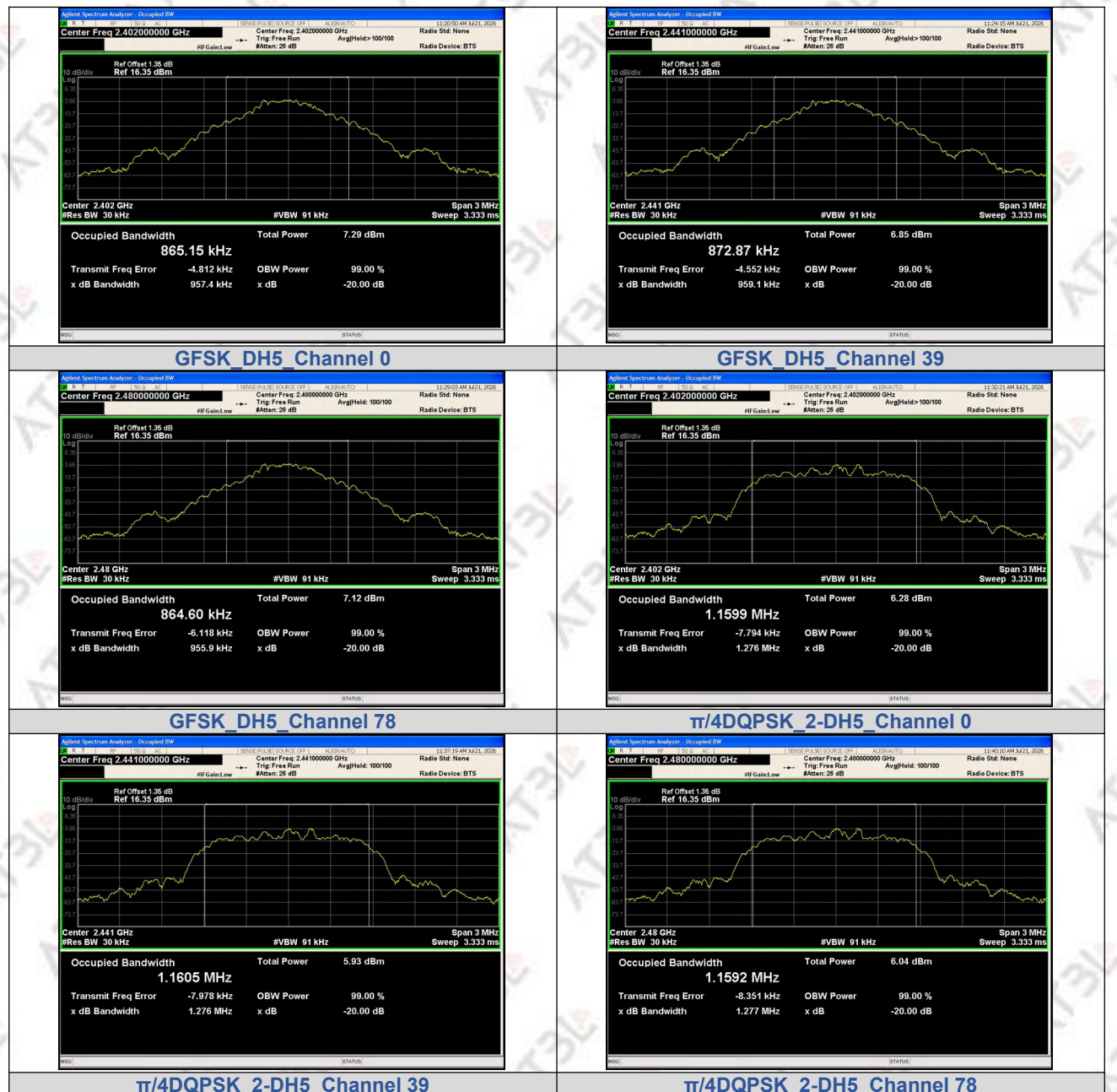


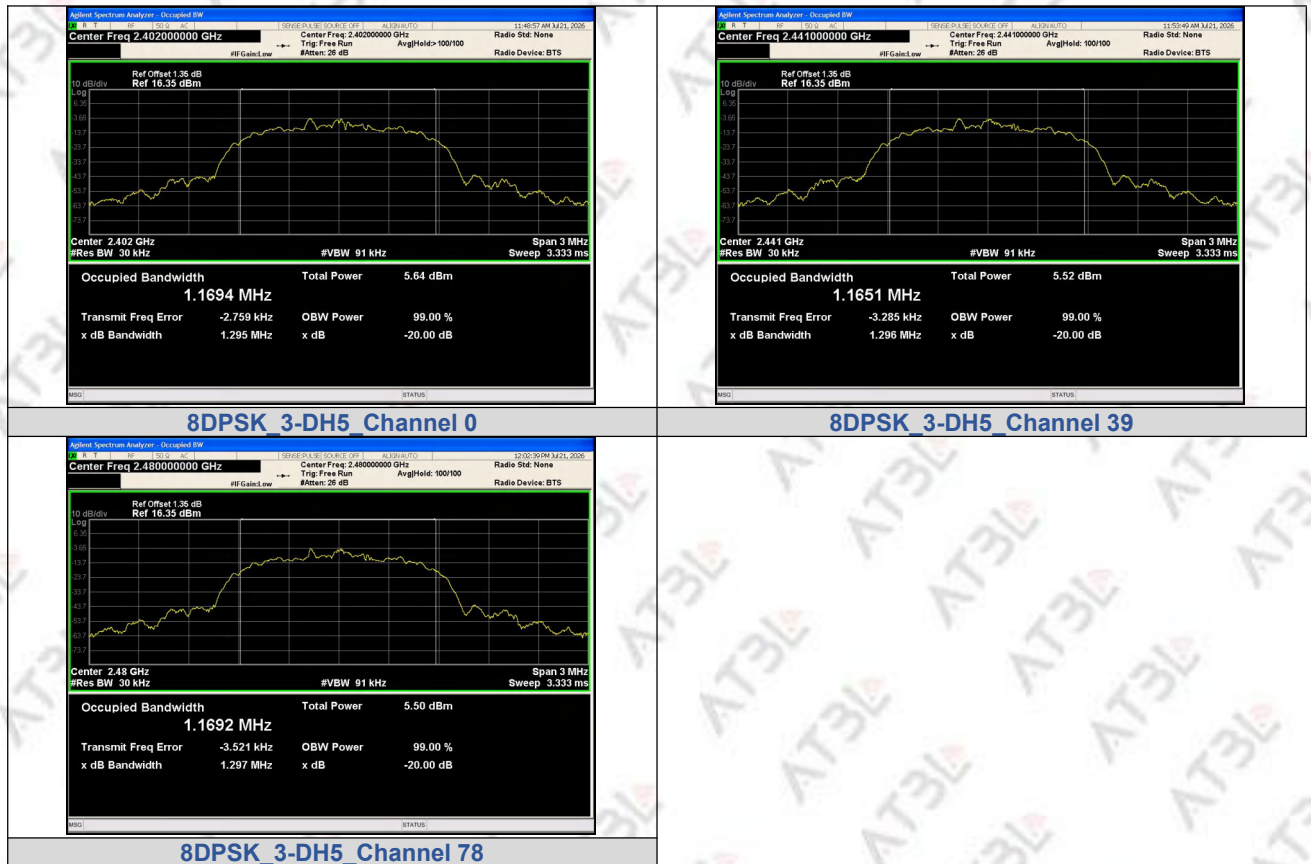
5.20dB Bandwidth

Test Result

Modulation	Channel	Center Frequency (MHz)	20 dB Bandwidth (MHz)
GFSK	0	2402 MHz	0.9574
	39	2441 MHz	0.9591
	78	2480 MHz	0.9559
$\pi/4$ DQPSK	0	2402 MHz	1.276
	39	2441 MHz	1.276
	78	2480 MHz	1.277
8DPSK	0	2402 MHz	1.295
	39	2441 MHz	1.296
	78	2480 MHz	1.297

Test Graphs





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	2439.8428	2440.8299	0.9871	0.639	PASS
$\pi/4$ DQPSK	2-DH5	2439.8155	2440.8152	0.9997	0.851	PASS
8DPSK	3-DH5	2439.8392	2440.9853	1.1461	0.865	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	-58.295	-19.87	-38.425	PASS
			4804.26	-69.330	-19.87	-49.460	PASS
			7206.38	-67.431	-19.87	-47.561	PASS
			9608.49	-67.647	-19.87	-47.777	PASS
			24943.2	-53.703	-19.87	-33.833	PASS
		39	4882.30	-66.843	-20.23	-46.612	PASS
			7323.74	-67.157	-20.23	-46.927	PASS
			9763.31	-69.384	-20.23	-49.154	PASS
			24804.6	-54.228	-20.23	-33.998	PASS
		78	2483.50	-62.815	-20.05	-42.765	PASS
			4959.70	-68.051	-20.05	-48.001	PASS
			7439.22	-67.602	-20.05	-47.552	PASS
			9919.37	-69.214	-20.05	-49.164	PASS
			24984.4	-54.615	-20.05	-34.565	PASS
π/4DQPSK	2-DH5	0	2400.00	-58.201	-20.89	-37.311	PASS
			4803.02	-68.915	-20.89	-48.025	PASS
			7205.13	-68.094	-20.89	-47.204	PASS
			9607.87	-69.275	-20.89	-48.385	PASS
			24943.2	-54.383	-20.89	-33.493	PASS
		39	4881.05	-66.755	-21.2	-45.555	PASS
			7323.11	-67.172	-21.2	-45.972	PASS
			9763.31	-67.766	-21.2	-46.566	PASS
			24937.6	-54.128	-21.2	-32.928	PASS
		78	2483.50	-62.102	-21.13	-40.972	PASS
			4959.70	-67.506	-21.13	-46.376	PASS
			7440.47	-67.021	-21.13	-45.891	PASS
			9919.37	-68.261	-21.13	-47.132	PASS
			24913.8	-53.722	-21.13	-32.592	PASS
8DPSK	3-DH5	0	2400.00	-59.854	-21.38	-38.474	PASS
			4803.64	-69.423	-21.38	-48.043	PASS
			7205.75	-67.918	-21.38	-46.538	PASS
			9607.24	-68.692	-21.38	-47.312	PASS
			24858.9	-54.265	-21.38	-32.885	PASS
		39	4882.92	-67.448	-21.67	-45.778	PASS
			7323.74	-67.884	-21.67	-46.214	PASS
			9763.93	-68.717	-21.67	-47.047	PASS
			24831.5	-53.719	-21.67	-32.049	PASS
		78	2483.50	-62.830	-21.59	-41.240	PASS
			4960.33	-69.500	-21.59	-47.910	PASS
			7440.47	-66.914	-21.59	-45.324	PASS
			9919.99	-69.996	-21.59	-48.406	PASS
			24833.3	-53.581	-21.59	-31.991	PASS

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

Hopping

opping

Modulation	Packet	Channel	OOB Emission Frequency (MHz)	OOB Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result
GFSK	DH5	Hopping	2397.44	-58.226	-19.63	-38.596	PASS
			2400.00	-59.127	-19.63	-39.497	PASS
			2483.50	-61.639	-19.52	-42.119	PASS
π/4DQPSK	2-DH5		2400.00	-58.482	-20.74	-37.742	PASS
			2483.50	-62.058	-20.74	-41.318	PASS
8DPSK	3-DH5		2400.00	-58.667	-21.27	-37.397	PASS
			2483.50	-62.504	-21.23	-41.274	PASS

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

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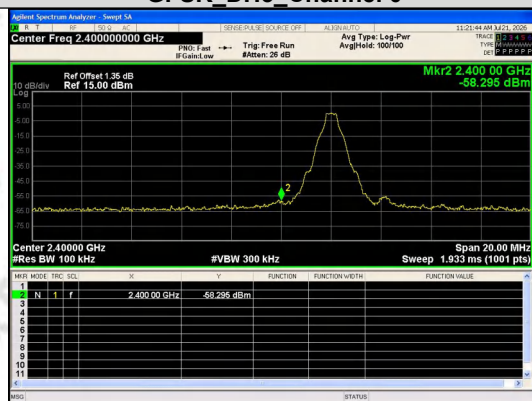
Test Graphs



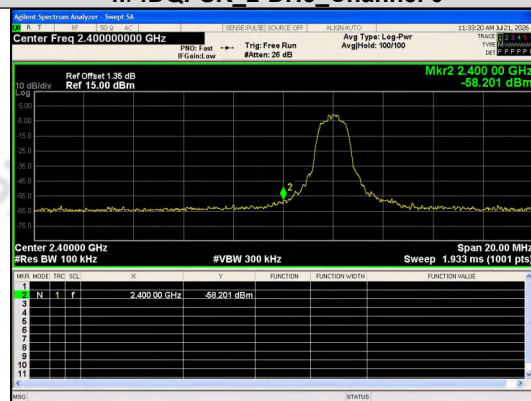
In-Band Reference Level
GFSK_DH5_Channel 0



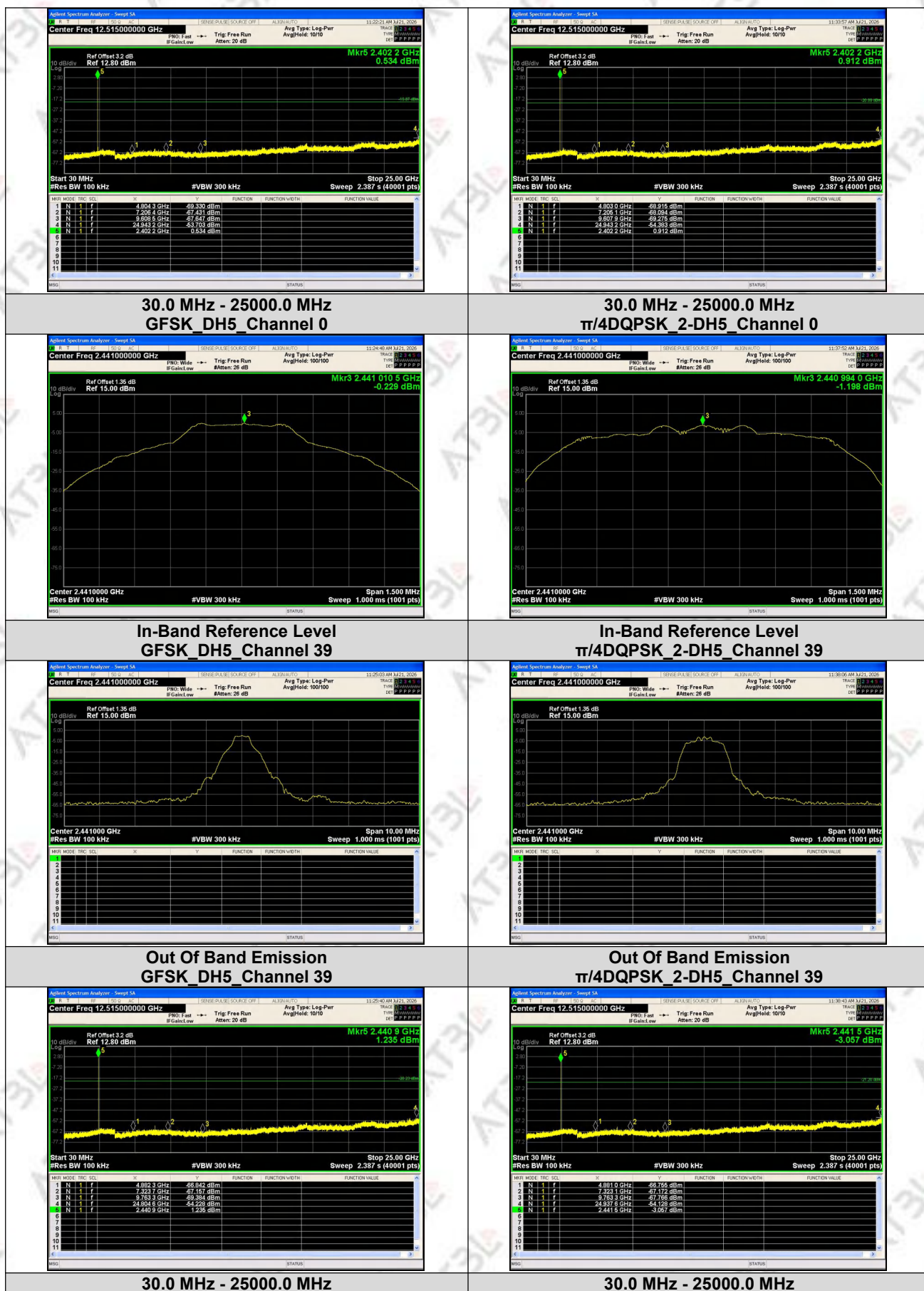
In-Band Reference Level
 $\pi/4$ DQPSK_2-DH5_Channel 0

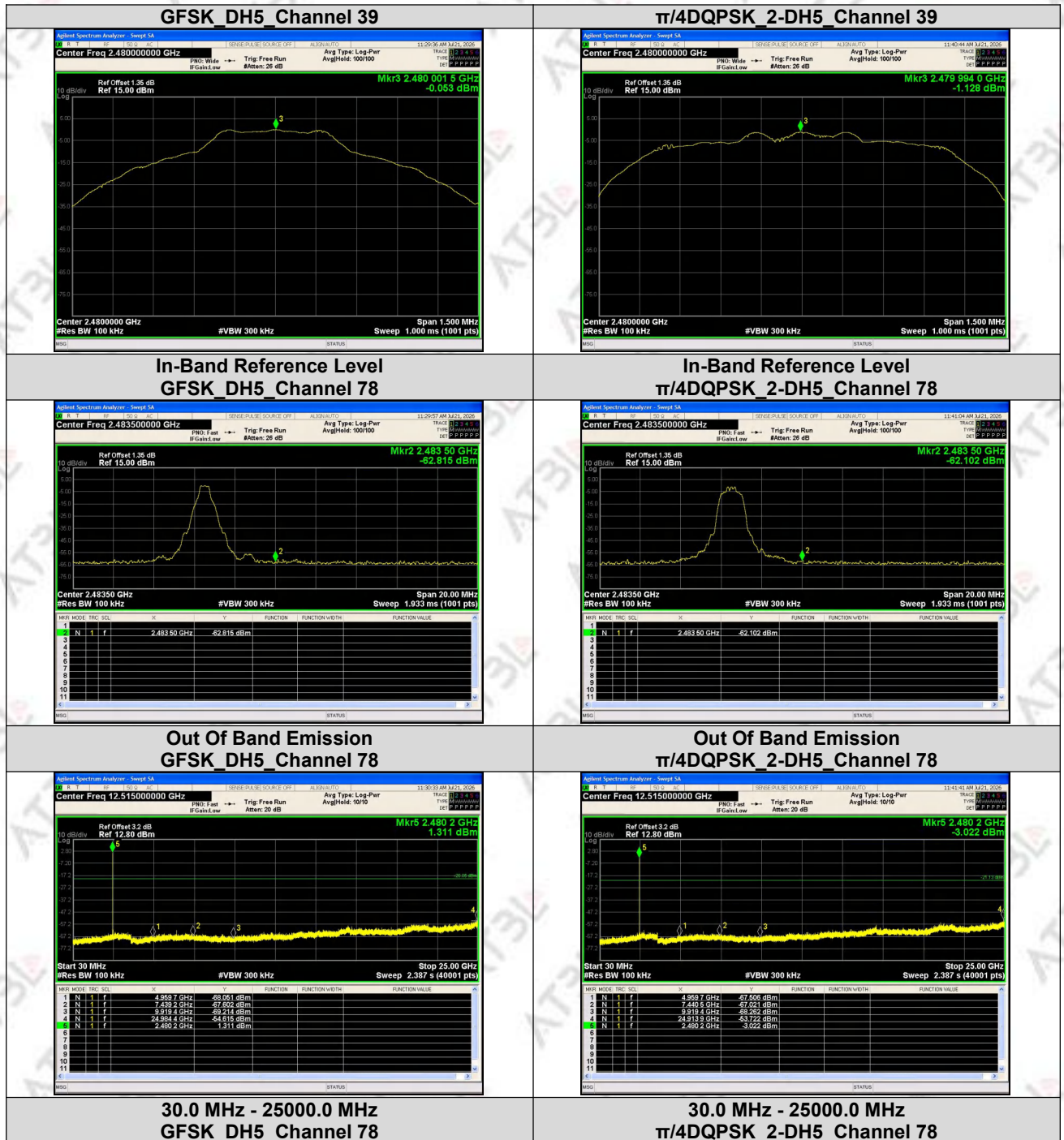


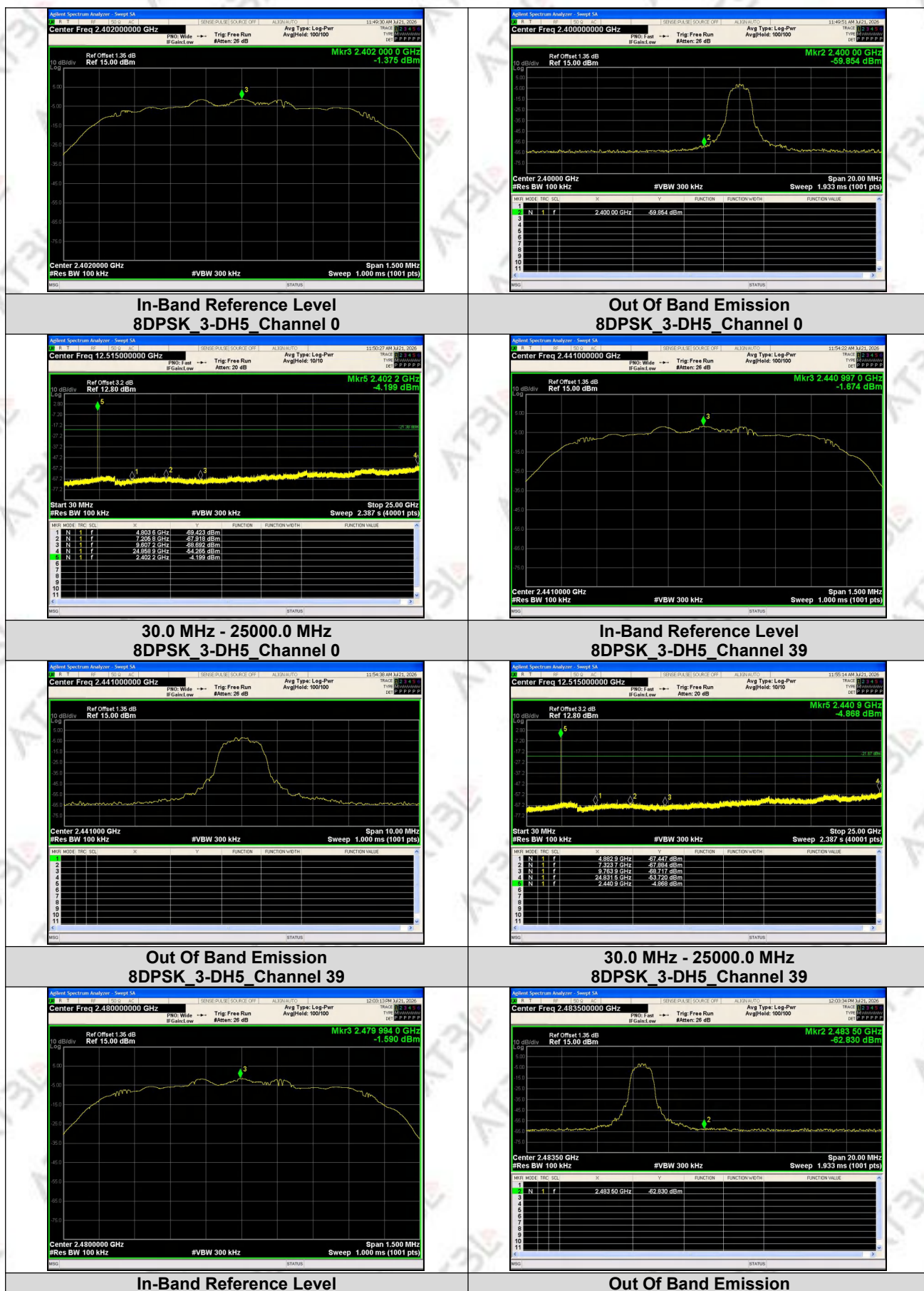
Out Of Band Emission
GFSK_DH5_Channel 0



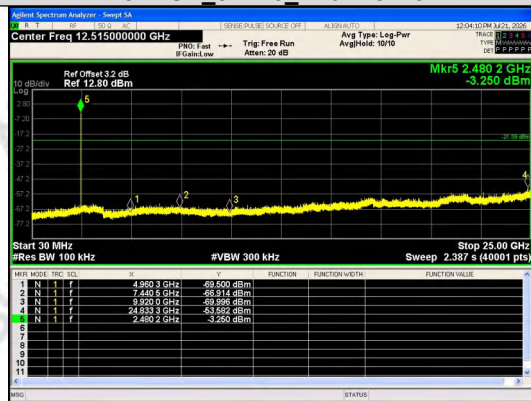
Out Of Band Emission
 $\pi/4$ DQPSK_2-DH5_Channel 0







8DPSK_3-DH5_Channel 78

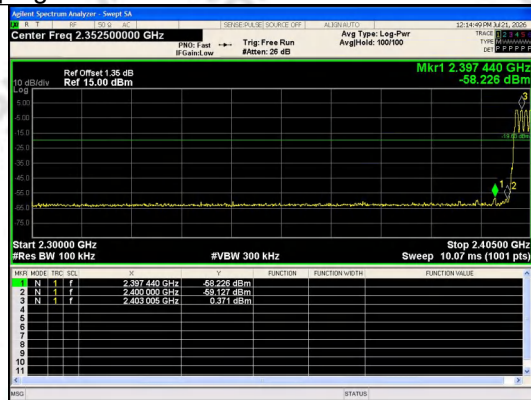


30.0 MHz - 25000.0 MHz
8DPSK_3-DH5_Channel 78

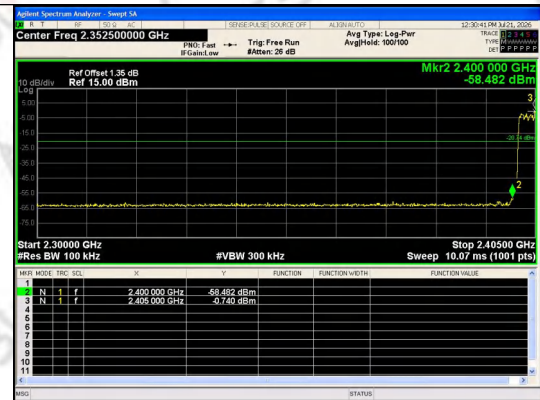
8DPSK_3-DH5_Channel 78



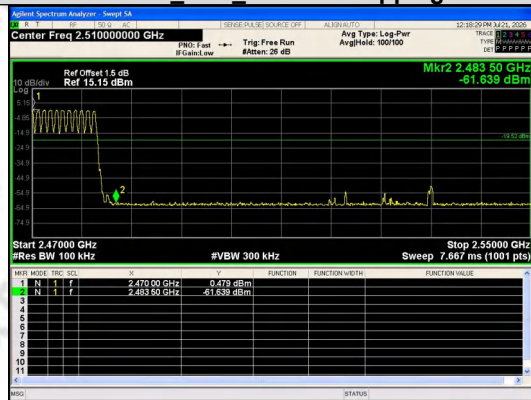
Hopping



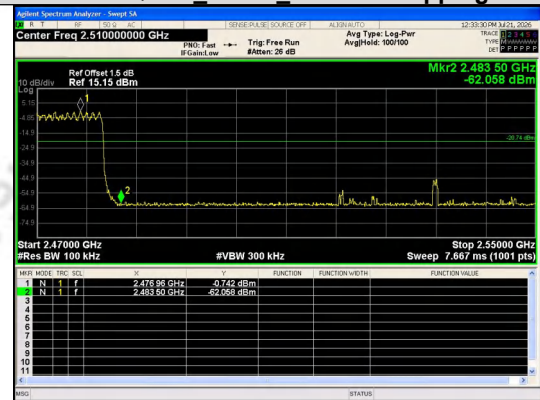
Out Of Band Emission(Left)
GFSK_DH5_Channel Hopping



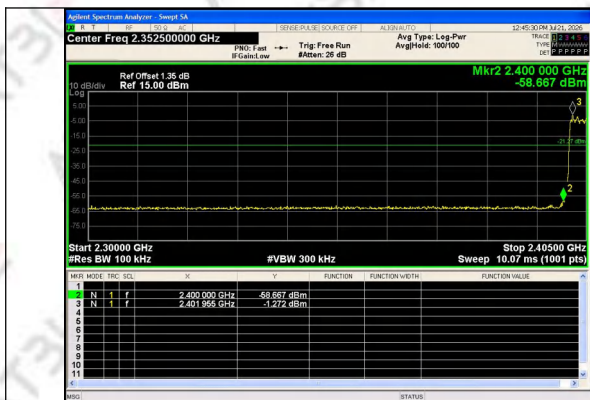
Out Of Band Emission(Left)
π/4DQPSK_2-DH5_Channel Hopping



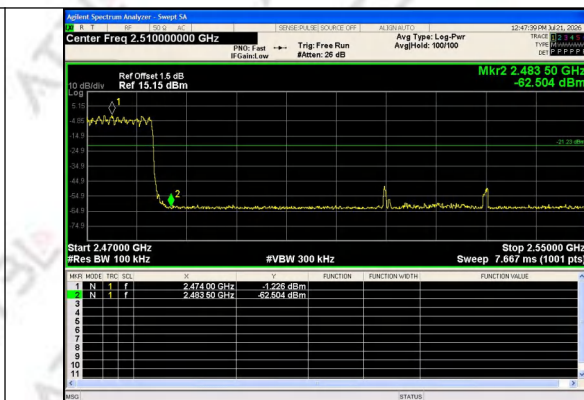
Out Of Band Emission(Right)
GFSK_DH5_Channel Hopping



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



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



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

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