

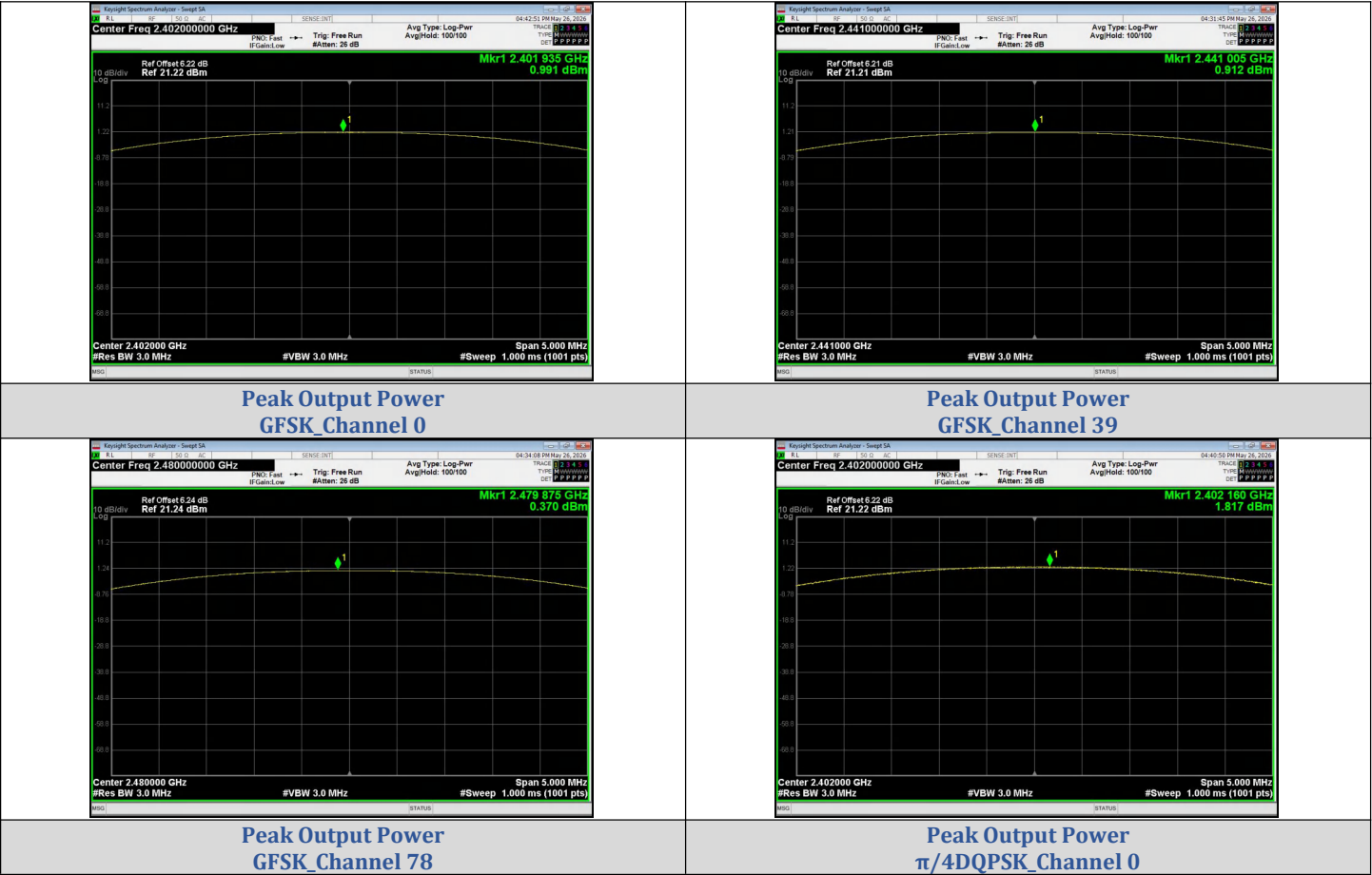
Appendix A:Test Results of Bluetooth BR & EDR

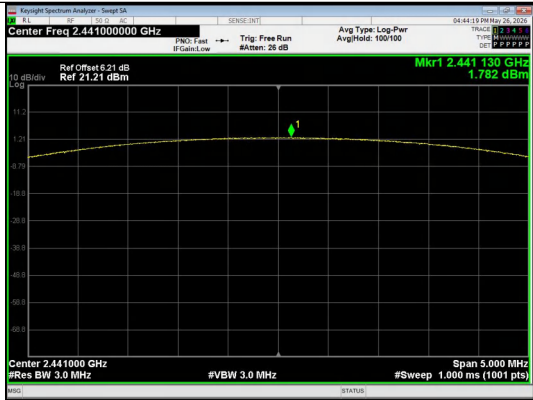
Conducted Output Power

Test Result

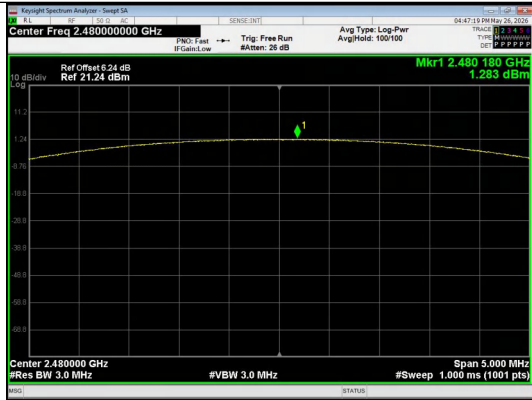
Modulation	Packet Type	Channel	Peak Output Power (dBm)	Peak Output Power (mW)	Max. Avg. Power (dBm)	Limit (dBm)	Result
GFSK	DH5	0	0.99	1.26	None	≤30	PASS
		39	0.91	1.23	None		PASS
		78	0.37	1.09	None		PASS
π /4DQPSK	2-DH5	0	1.82	1.52	None		PASS
		39	1.78	1.51	None		PASS
		78	1.28	1.34	None		PASS
8DPSK	3-DH5	0	2.29	1.70	None		PASS
		39	2.22	1.67	None		PASS
		78	1.63	1.46	None		PASS

Test Graphs

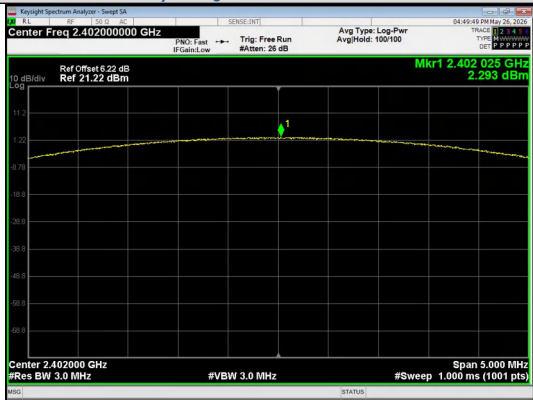




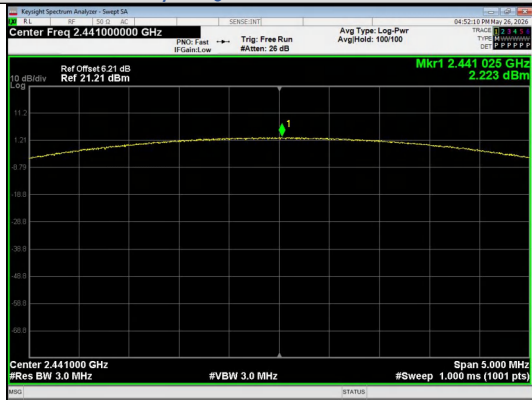
Peak Output Power
 $\pi/4$ DQPSK_Channel 39



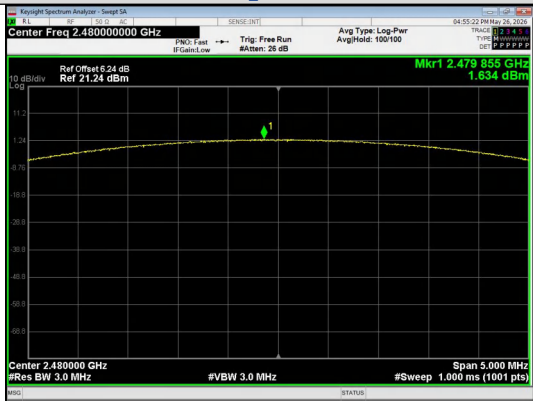
Peak Output Power
 $\pi/4$ DQPSK_Channel 78



Peak Output Power
8DPSK_Channel 0



Peak Output Power
8DPSK_Channel 39



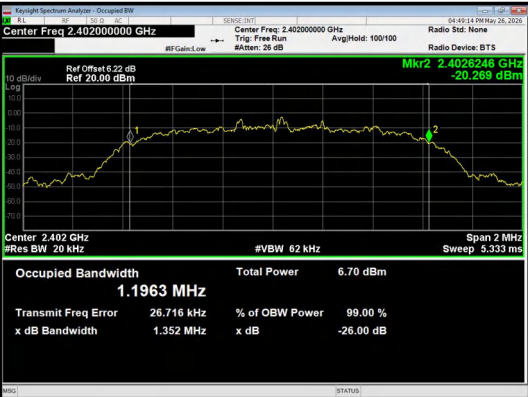
Peak Output Power
8DPSK_Channel 78

FCC ID:2BWFI-R10
99% Bandwidth
Test Result

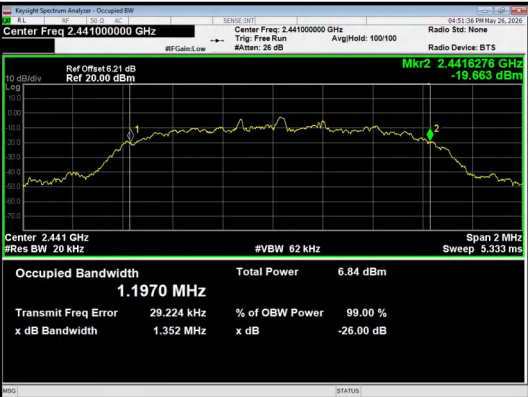
Modulation	Channel	Center Frequency (MHz)	99% BW (MHz)
GFSK	0	2402	0.87208
	39	2441	0.88596
	78	2480	0.87157
$\pi/4$ DQPSK	0	2402	1.1873
	39	2441	1.1898
	78	2480	1.1959
8DPSK	0	2402	1.1963
	39	2441	1.1970
	78	2480	1.2004

Test Graphs

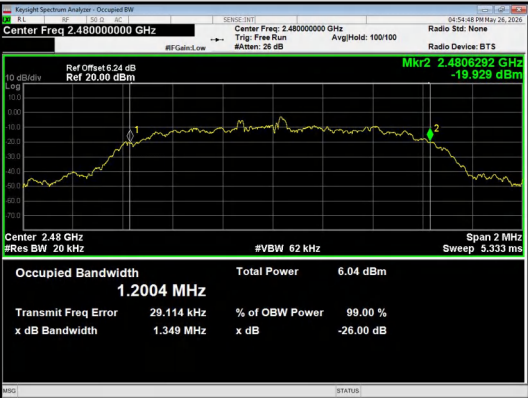




8DPSK_3-DH5_Channel 0



8DPSK_3-DH5_Channel 39

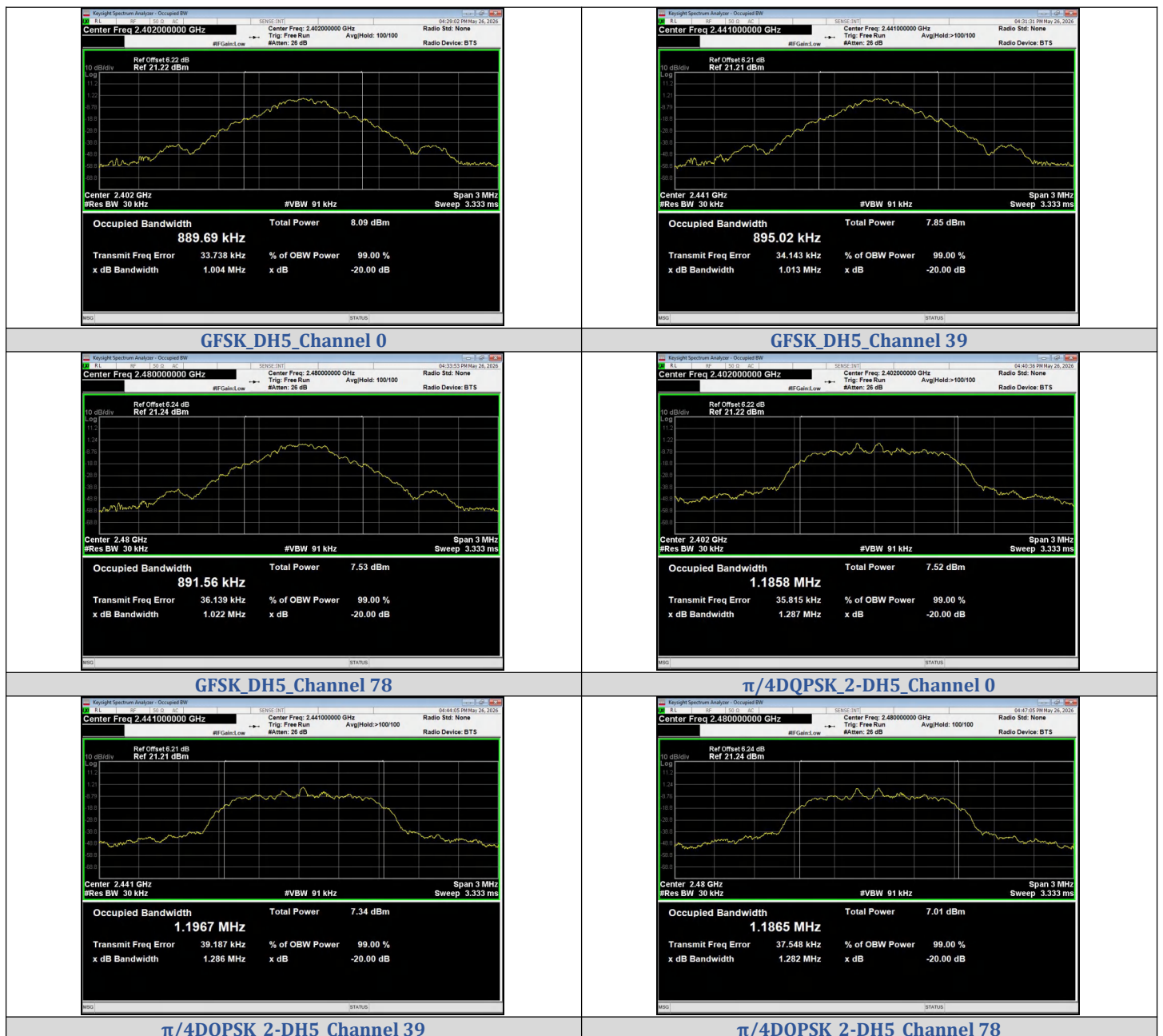


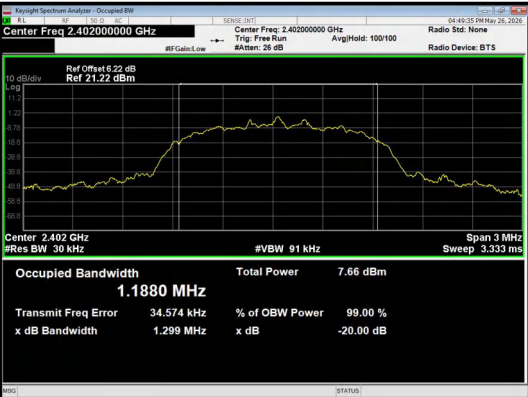
8DPSK_3-DH5_Channel 78

FCC ID:2BWFI-R10
20dB Bandwidth
Test Result

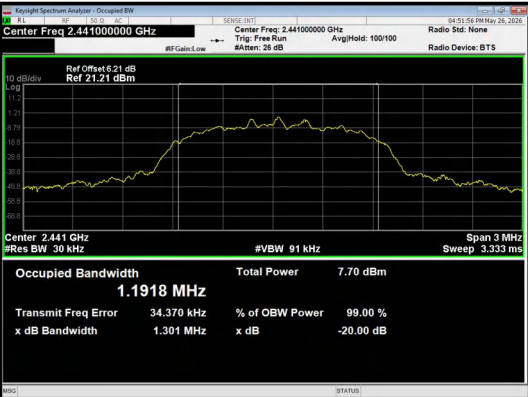
Modulation	Channel	Center Frequency (MHz)	20 dB Bandwidth (MHz)
GFSK	0	2402 MHz	1.004
	39	2441 MHz	1.013
	78	2480 MHz	1.022
$\pi/4$ DQPSK	0	2402 MHz	1.287
	39	2441 MHz	1.286
	78	2480 MHz	1.282
8DPSK	0	2402 MHz	1.299
	39	2441 MHz	1.301
	78	2480 MHz	1.302

Test Graphs

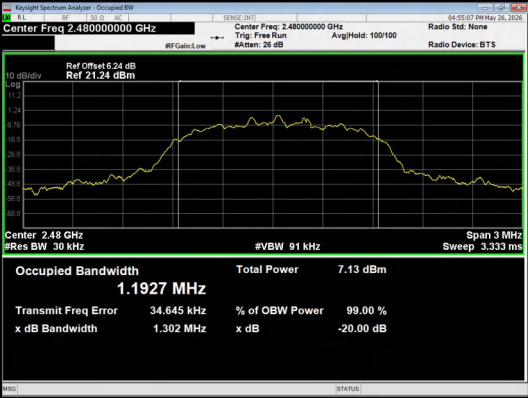




8DPSK_3-DH5_Channel 0



8DPSK_3-DH5_Channel 39



8DPSK_3-DH5_Channel 78

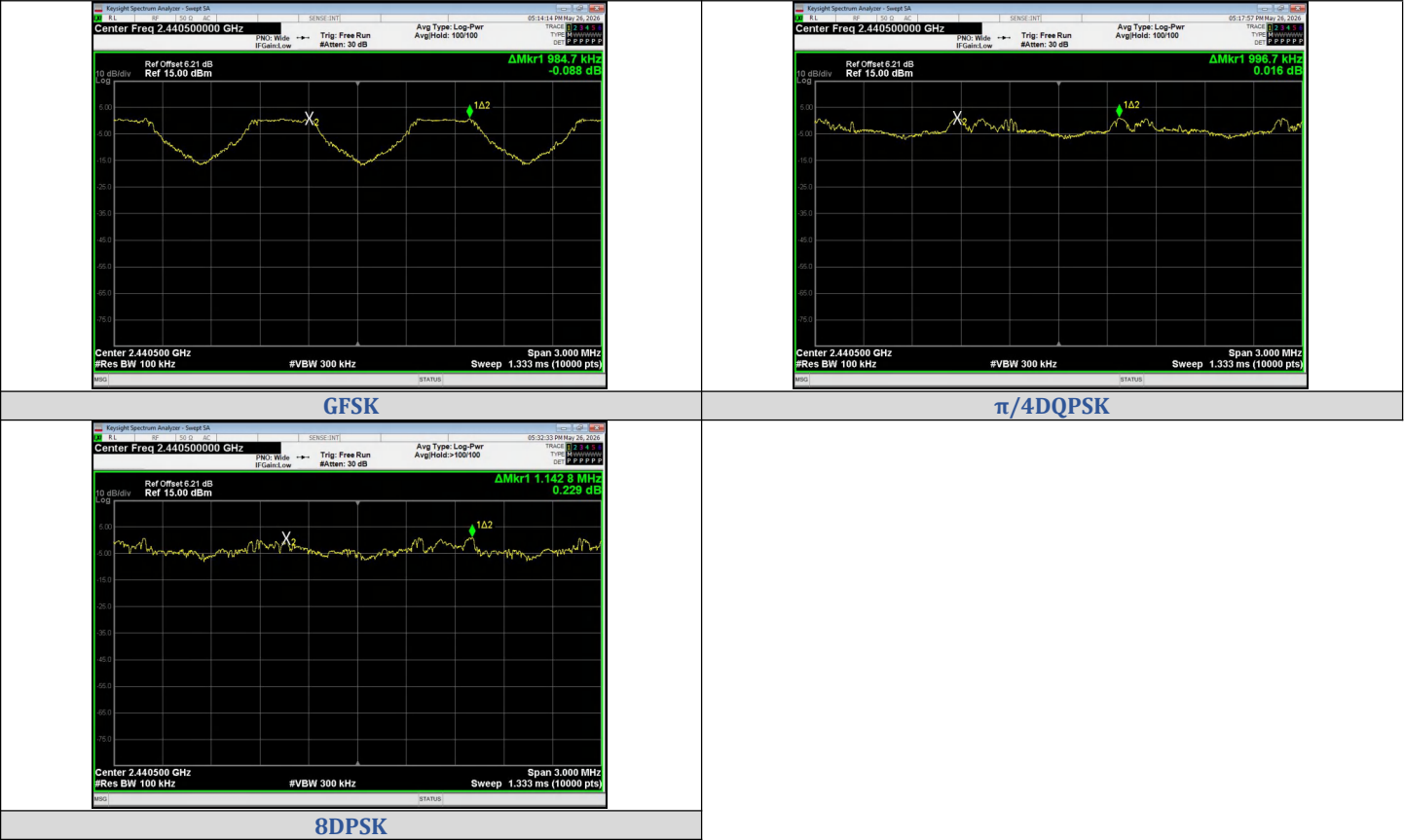
FCC ID:2BWFI-R10

Carrier Frequencies Separation

Test Result

Modulation	Packet	Left Center frequency (MHz)	Right Center frequency (MHz)	Hopping Frequency Separation (MHz)	Limit (MHz)	Result
GFSK	DH5	2440.2025	2441.1872	0.9847	0.681	PASS
$\pi/4$ DQPSK	2-DH5	2439.8761	2440.8728	0.9967	0.858	PASS
8DPSK	3-DH5	2440.0612	2441.204	1.1428	0.868	PASS

Test Graphs



FCC ID:2BWFI-R10

Conducted Spurious & Band Edge Emission

Test Result

Non-Hopping

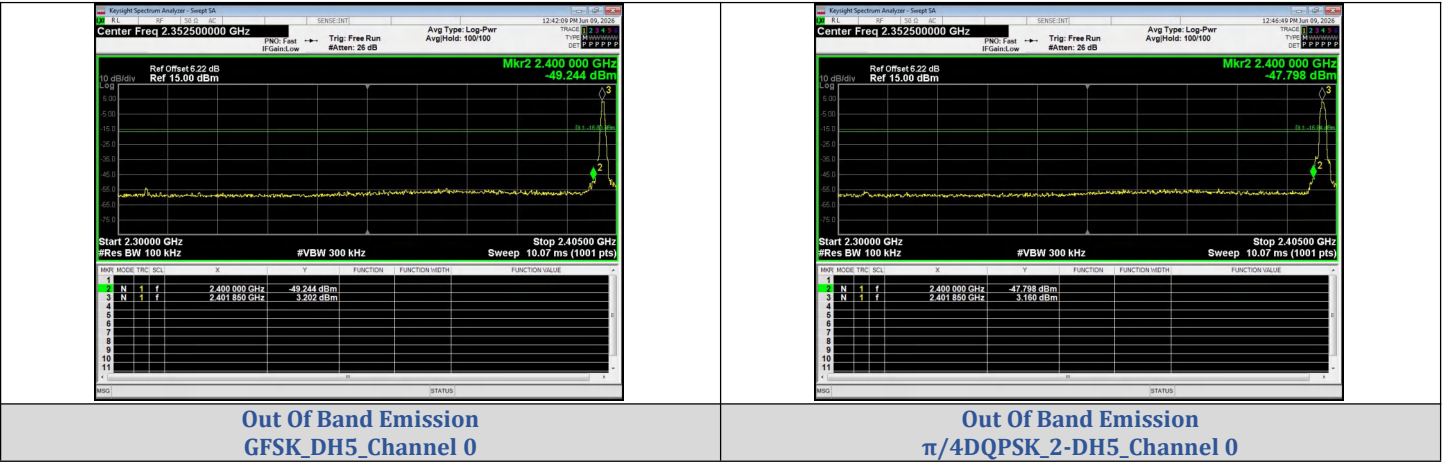
Modulation	Packet	Channel	OOB Emission Frequency (MHz)	OOB Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result
GFSK	DH5	0	2400.00	-49.244	-16.8	-32.444	PASS
			7206.38	-42.807	-16.8	-26.007	PASS
		39	9763.93	-45.754	-19.13	-26.624	PASS
		78	2287.91	-47.054	-19.68	-27.374	PASS
			2483.50	-55.292	-19.68	-35.612	PASS
π /4DQPSK	2-DH5	0	2400.00	-47.798	-16.84	-30.958	PASS
			9607.87	-43.515	-16.84	-26.675	PASS
		39	9763.93	-45.724	-19.18	-26.544	PASS
		78	2483.50	-55.763	-19.66	-36.103	PASS
			9919.99	-47.467	-19.66	-27.807	PASS
8DPSK	3-DH5	0	2400.00	-46.602	-17.0	-29.602	PASS
			9607.87	-43.243	-17.0	-26.243	PASS
		39	9763.93	-45.708	-19.11	-26.598	PASS
		78	2483.50	-56.891	-19.68	-37.211	PASS
			9919.99	-47.342	-19.68	-27.662	PASS

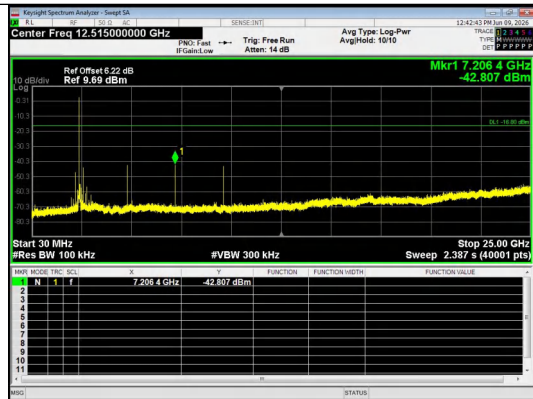
Note: input compensation coefficient (dB)= Cable Loss (dB)

Hopping

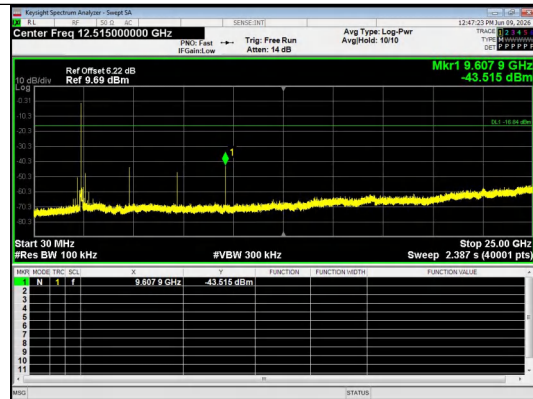
Modulation	Packet	Channel	OOB Emission Frequency (MHz)	OOB Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result
GFSK	DH5	Hopping	2334.02	-52.468	-19.18	-33.288	PASS
			2400.00	-54.334	-19.18	-35.154	PASS
			2483.50	-55.573	-19.47	-36.103	PASS
π /4DQPSK	2-DH5		2400.00	-50.086	-19.04	-31.046	PASS
			2483.50	-56.001	-19.46	-36.541	PASS
			8DPSK	3-DH5	2350.09	-52.735	-19.13
2400.00	-54.751				-19.13	-35.621	PASS
2483.50	-56.082				-19.54	-36.542	PASS
Note: input compensation coefficient (dB)= Cable Loss (dB)							

Test Graphs

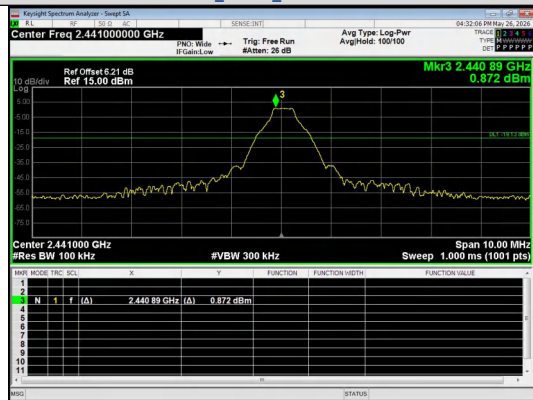




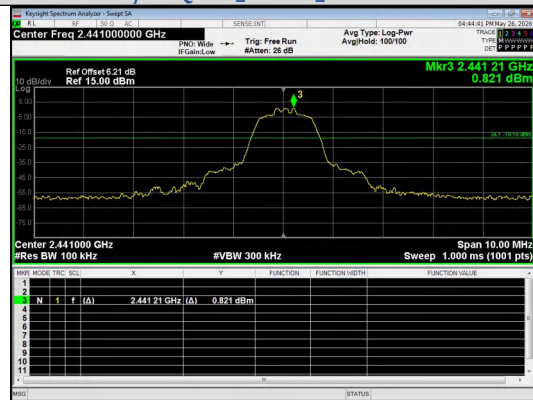
30.0 MHz - 25000.0 MHz
GFSK_DH5_Channel 0



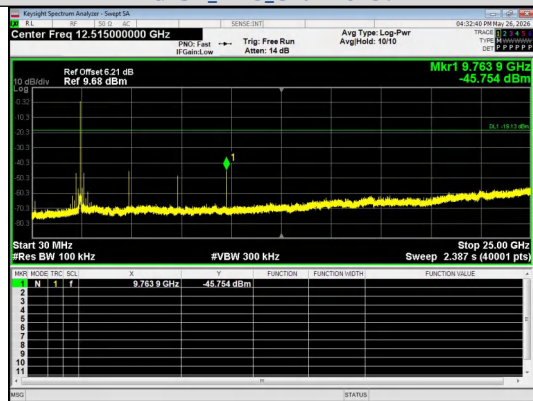
30.0 MHz - 25000.0 MHz
 $\pi/4$ DQPSK_2-DH5_Channel 0



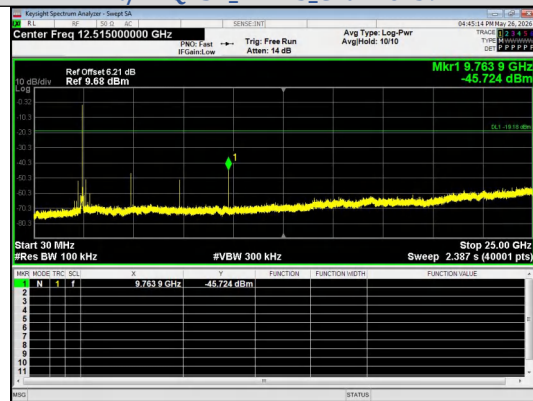
Out Of Band Emission
GFSK_DH5_Channel 39



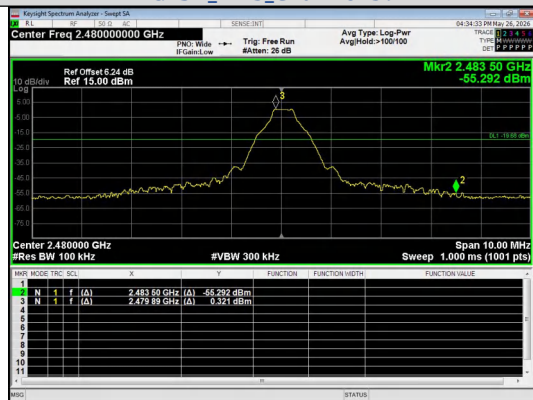
Out Of Band Emission
 $\pi/4$ DQPSK_2-DH5_Channel 39



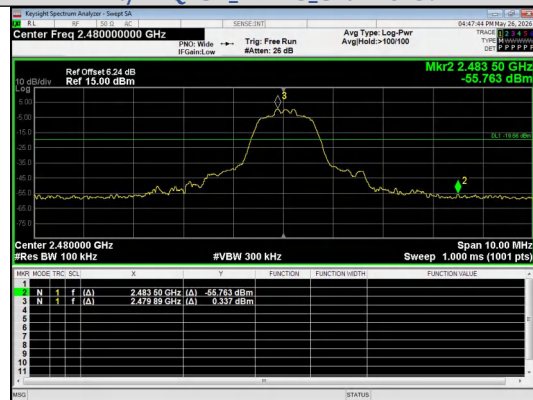
30.0 MHz - 25000.0 MHz
GFSK_DH5_Channel 39



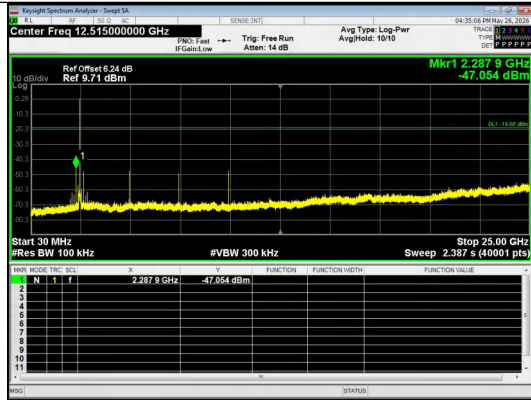
30.0 MHz - 25000.0 MHz
 $\pi/4$ DQPSK_2-DH5_Channel 39



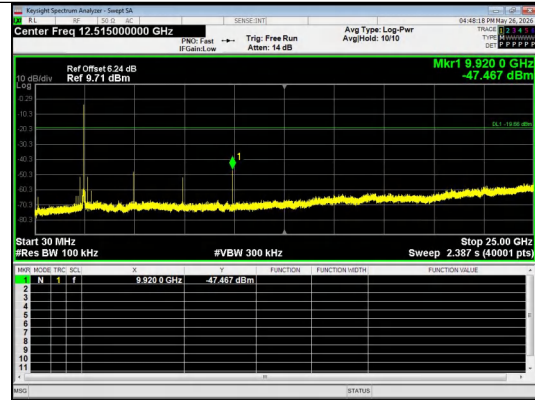
Out Of Band Emission
GFSK_DH5_Channel 78



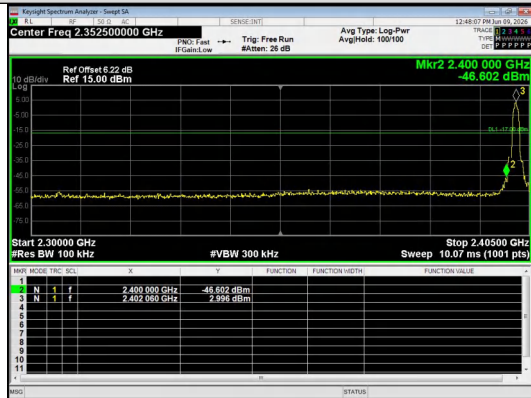
Out Of Band Emission
 $\pi/4$ DQPSK_2-DH5_Channel 78



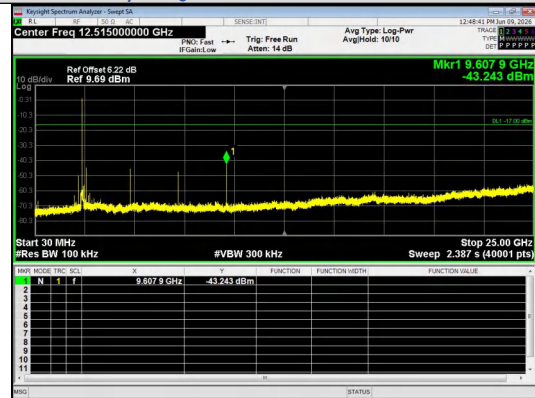
30.0 MHz - 25000.0 MHz
GFSK_DH5_Channel 78



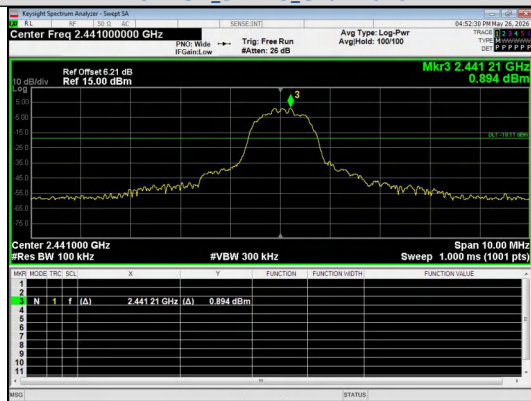
30.0 MHz - 25000.0 MHz
 $\pi/4$ DQPSK_2-DH5_Channel 78



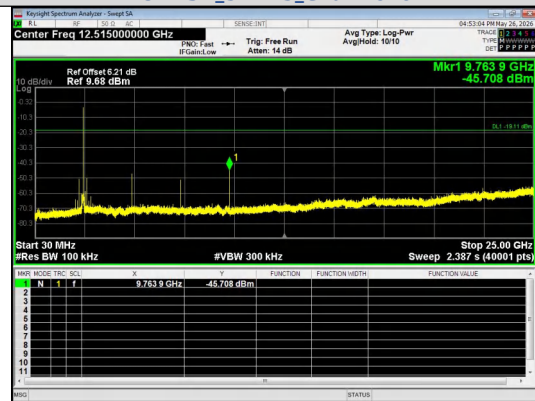
Out Of Band Emission
8DPSK_3-DH5_Channel 0



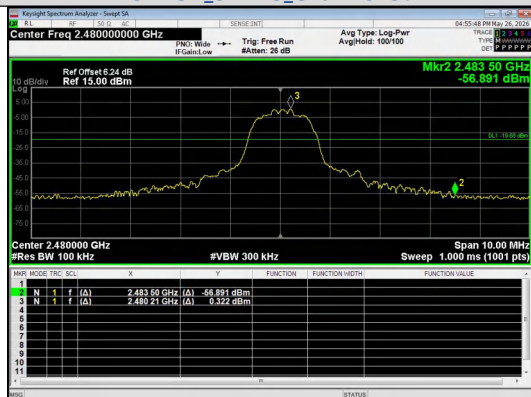
30.0 MHz - 25000.0 MHz
 $\pi/4$ DQPSK_2-DH5_Channel 78



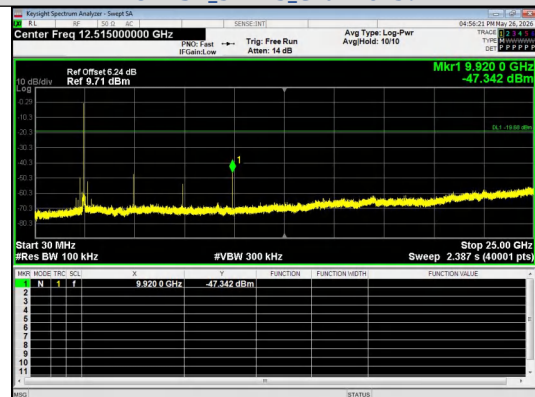
Out Of Band Emission
8DPSK_3-DH5_Channel 0



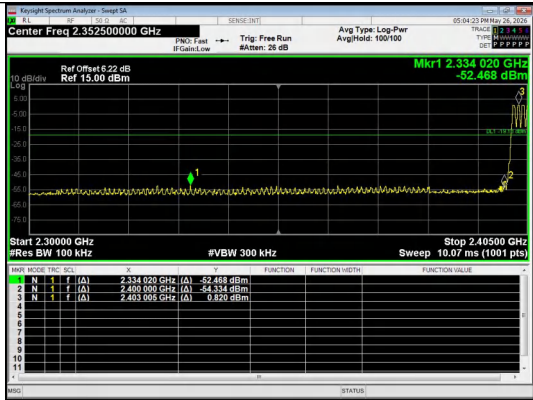
30.0 MHz - 25000.0 MHz
8DPSK_3-DH5_Channel 39



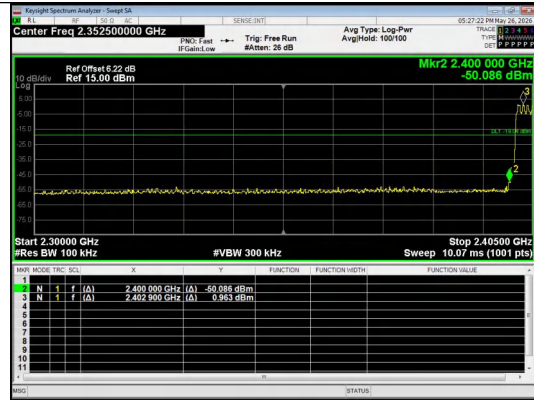
Out Of Band Emission
8DPSK_3-DH5_Channel 78



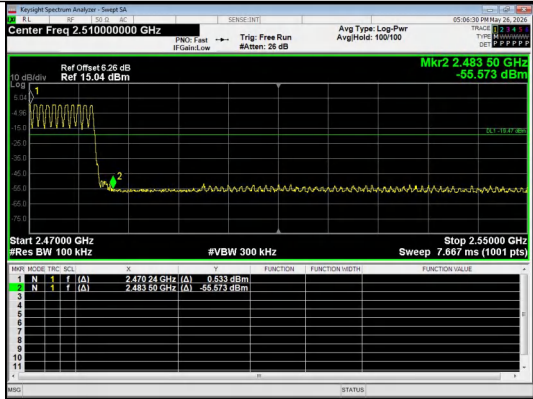
30.0 MHz - 25000.0 MHz
8DPSK_3-DH5_Channel 78



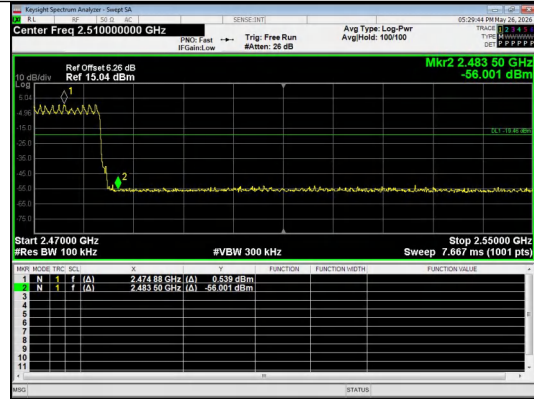
Out Of Band Emission(Left)
GFSK_DH5_Channel Hopping



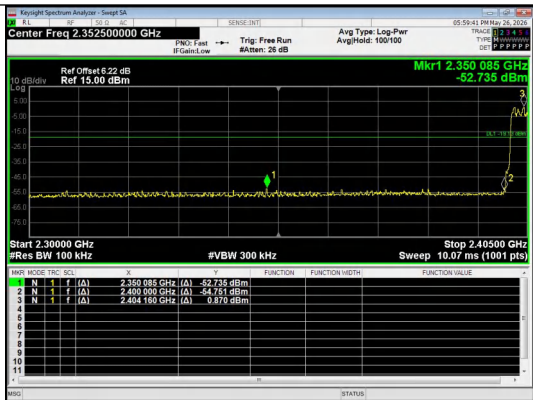
Out Of Band Emission(Left)
 $\pi/4$ DQPSK_2-DH5_Channel Hopping



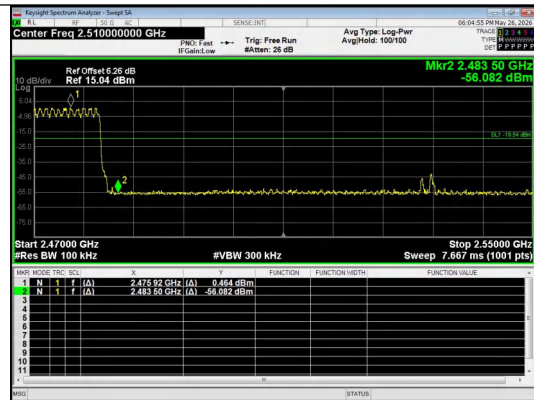
Out Of Band Emission(Right)
GFSK_DH5_Channel Hopping



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



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



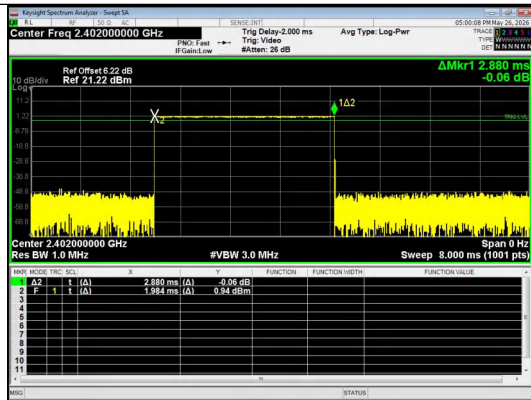
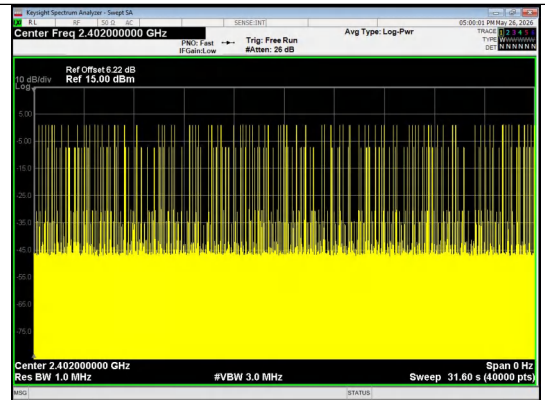
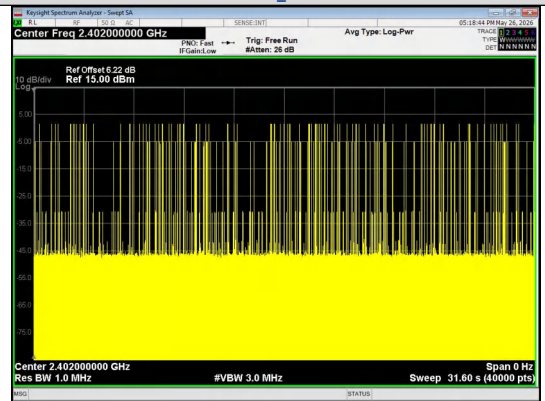
Out Of Band Emission(Right)
8DPSK_3-DH5_Channel Hopping

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	2.880	101	290.88	< 400	PASS
$\pi/4$ DQPSK	2-DH5		2.896	98	283.81		PASS
8DPSK	3-DH5		2.896	105	304.08		PASS
Note: Dwell time=Pulse time(ms)*Number of Pulses in 31.6 seconds							

Test Graphs

Pulse Width
GFSK_DH5Number of Pulses in 31.6 seconds
GFSK_DH5Pulse Width
 $\pi/4$ DQPSK_2-DH5Number of Pulses in 31.6 seconds
 $\pi/4$ DQPSK_2-DH5Pulse Width
8DPSK_3-DH5Number of Pulses in 31.6 seconds
8DPSK_3-DH5

FCC ID:2BWFI-R10

Number Of Hopping Channel

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

