

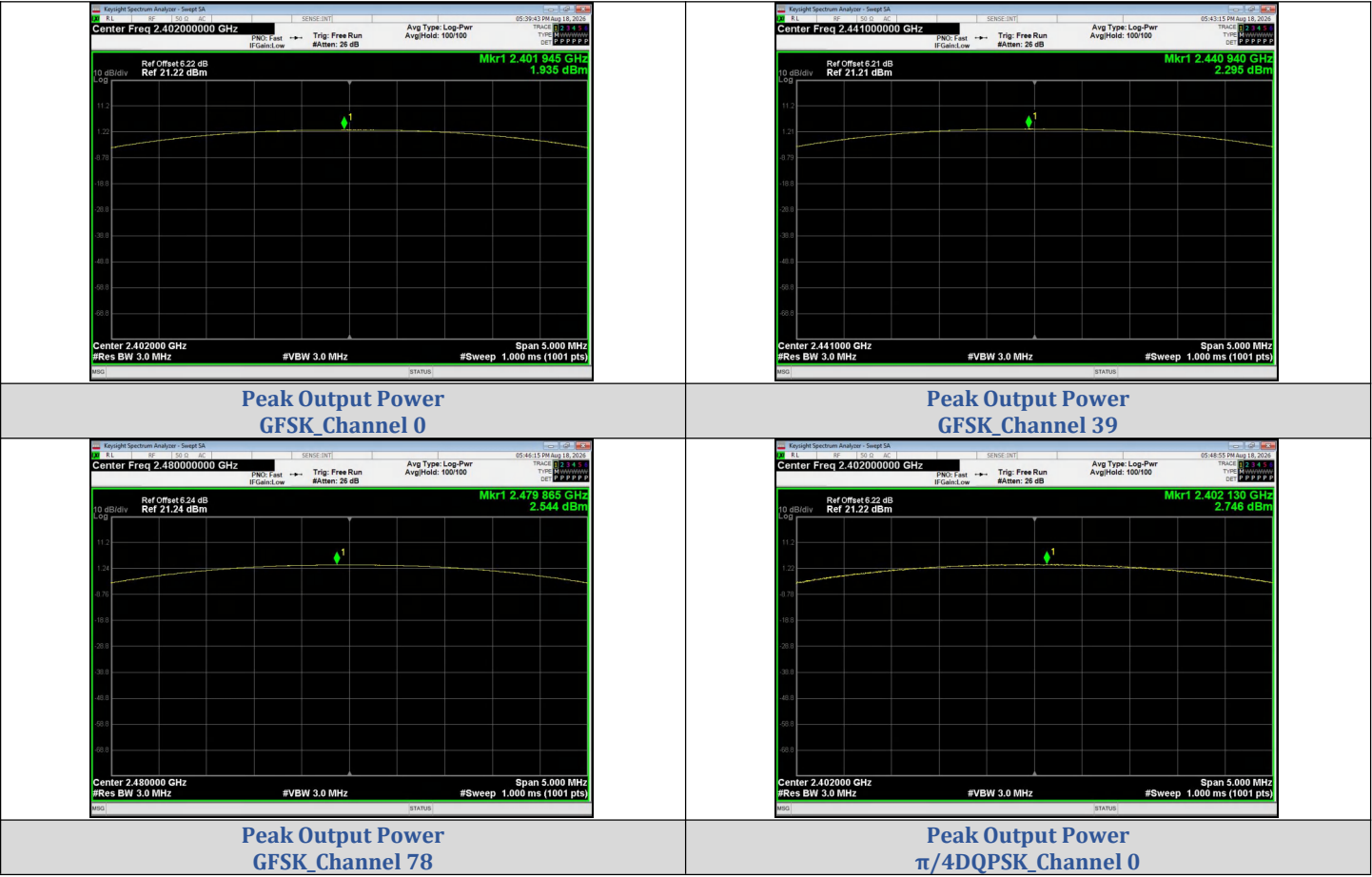
Appendix A:Test Results of Bluetooth BR & EDR

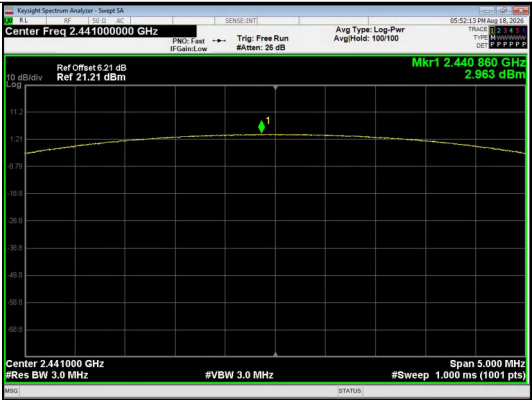
Conducted Output Power

Test Result

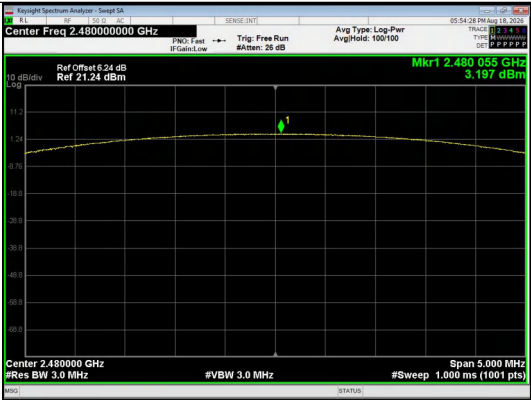
Modulation	Packet Type	Channel	Peak Output Power (dBm)	Peak Output Power (mW)	Max. Avg. Power (dBm)	Limit (dBm)	Verdict
GFSK	DH5	0	1.935	1.56	None	30	PASS
		39	2.295	1.70	None		PASS
		78	2.544	1.80	None		PASS
π /4DQPSK	2-DH5	0	2.746	1.88	None		PASS
		39	2.963	1.98	None		PASS
		78	3.197	2.09	None		PASS
8DPSK	3-DH5	0	3.135	2.06	None		PASS
		39	3.297	2.14	None		PASS
		78	3.391	2.18	None		PASS

Test Graphs

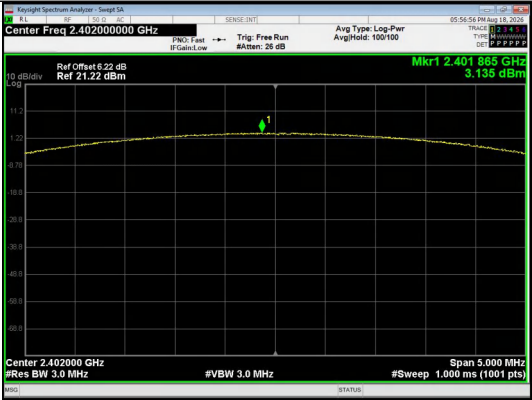




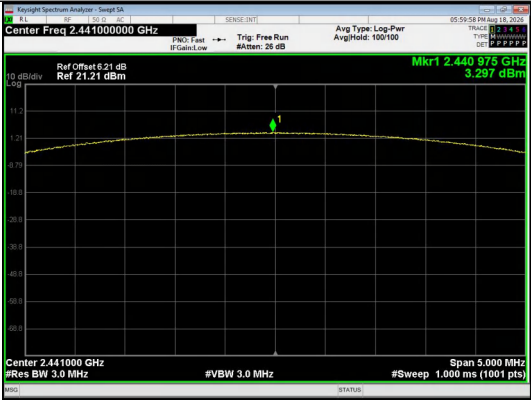
Peak Output Power
 $\pi/4$ DQPSK_Channel 39



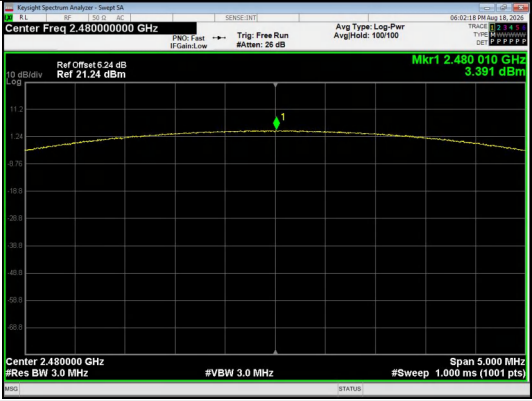
Peak Output Power
 $\pi/4$ DQPSK_Channel 78



Peak Output Power
8DPSK_Channel 0



Peak Output Power
8DPSK_Channel 39



Peak Output Power
8DPSK_Channel 78

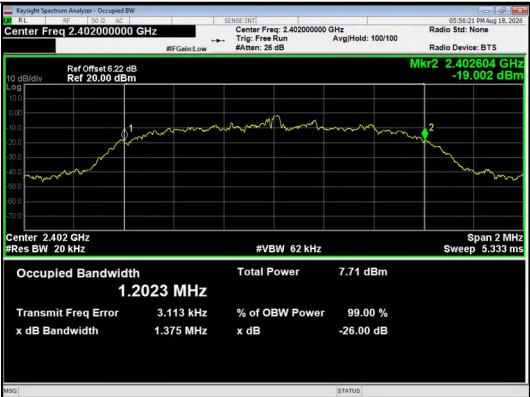
99% Bandwidth

Test Result

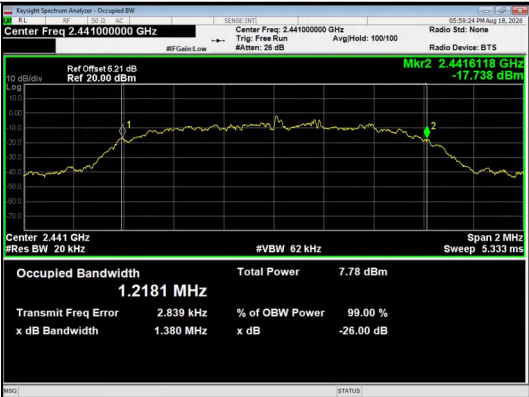
Modulation	Channel	Center Frequency (MHz)	99% BW (MHz)
GFSK	0	2402	0.90
	39	2441	0.90
	78	2480	0.89
$\pi/4$ DQPSK	0	2402	1.19
	39	2441	1.20
	78	2480	1.20
8DPSK	0	2402	1.20
	39	2441	1.22
	78	2480	1.21

Test Graphs

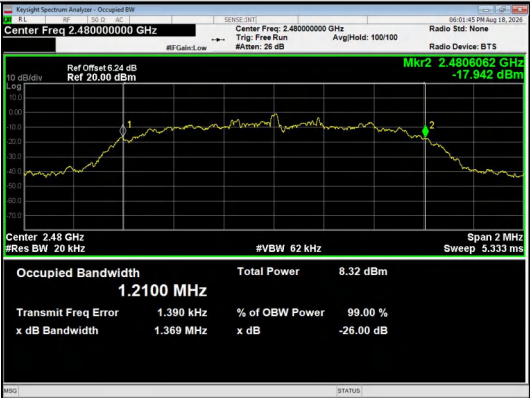




8DPSK_3-DH5_Channel 0



8DPSK_3-DH5_Channel 39



8DPSK_3-DH5_Channel 78

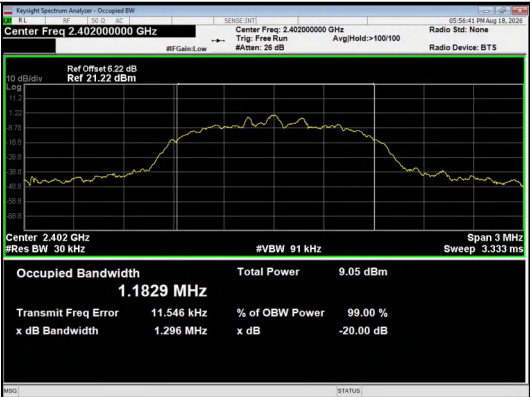
20dB Bandwidth

Test Result

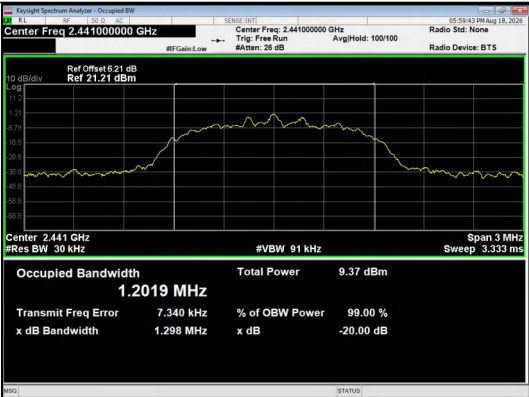
Modulation	Channel	Center Frequency (MHz)	20 dB Bandwidth (MHz)
GFSK	0	2402 MHz	1.010
	39	2441 MHz	1.025
	78	2480 MHz	1.019
$\pi/4$ DQPSK	0	2402 MHz	1.308
	39	2441 MHz	1.313
	78	2480 MHz	1.310
8DPSK	0	2402 MHz	1.296
	39	2441 MHz	1.298
	78	2480 MHz	1.299

Test Graphs

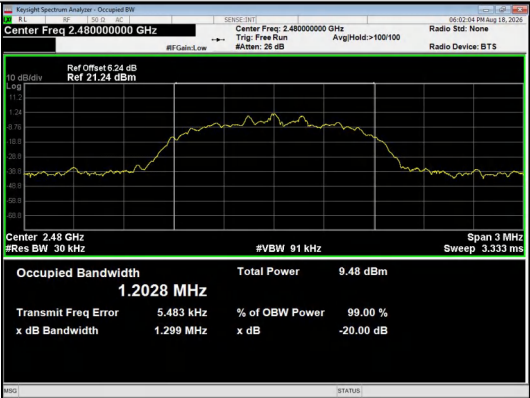




8DPSK_3-DH5_Channel 0



8DPSK_3-DH5_Channel 39



8DPSK_3-DH5_Channel 78

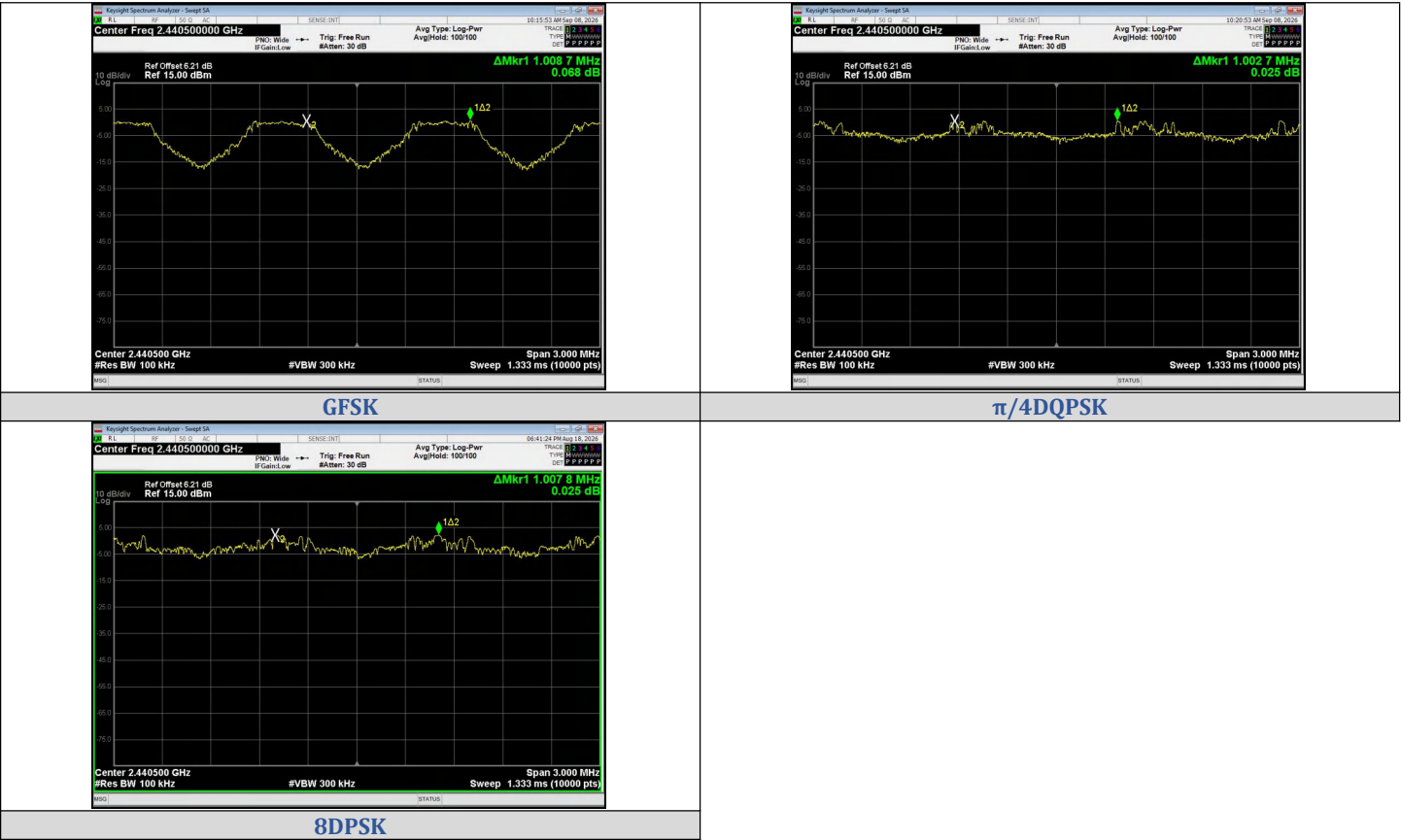
FCC ID:2BXR-F-AIGLASSES

Carrier Frequencies Separation

Test Result

Modulation	Packet	Left Center frequency (MHz)	Right Center frequency (MHz)	Hopping Frequency Separation (MHz)	Minimum Limit (MHz)	Verdict
GFSK	DH5	2440.1896	2441.1983	1.0087	0.683	PASS
$\pi/4$ DQPSK	2-DH5	2439.8734	2440.8761	1.0027	0.875	PASS
8DPSK	3-DH5	2439.9949	2441.0027	1.0078	0.866	PASS

Test Graphs



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)	Verdict
GFSK	DH5	0	2400.00	-50.684	-17.95	-32.734	PASS
			2594.42	-42.964	-17.95	-25.014	PASS
		39	2633.12	-44.401	-17.83	-26.572	PASS
		78	2287.91	-41.604	-17.56	-24.044	PASS
			2483.50	-56.299	-17.56	-38.739	PASS
$\pi/4$ DQPSK	2-DH5	0	2400.00	-48.666	-17.93	-30.736	PASS
			2593.79	-45.371	-17.93	-27.441	PASS
		39	2248.58	-46.630	-17.70	-28.930	PASS
		78	2287.91	-45.562	-17.42	-28.142	PASS
			2483.50	-56.700	-17.42	-39.280	PASS
8DPSK	3-DH5	0	2400.00	-47.999	-18.02	-29.979	PASS
			2593.79	-44.991	-18.02	-26.971	PASS
		39	2249.21	-46.959	-17.69	-29.269	PASS
		78	2287.91	-44.655	-17.50	-27.155	PASS
			2483.50	-54.912	-17.50	-37.412	PASS

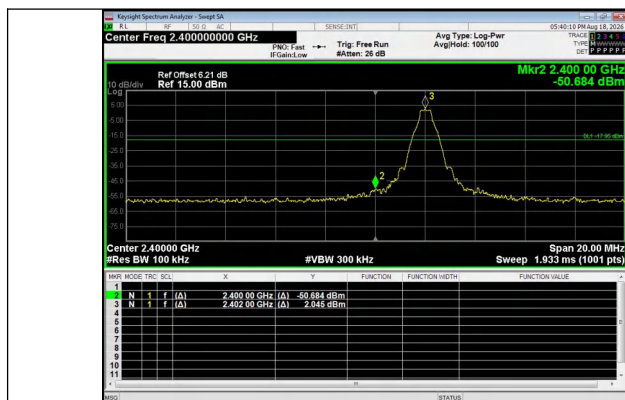
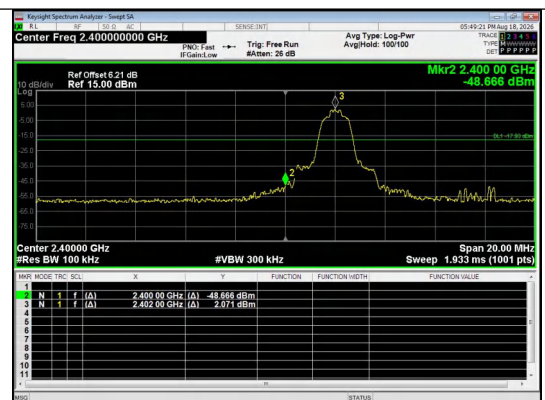
Note: input compensation coefficient (dB)= Cable Loss (dB)

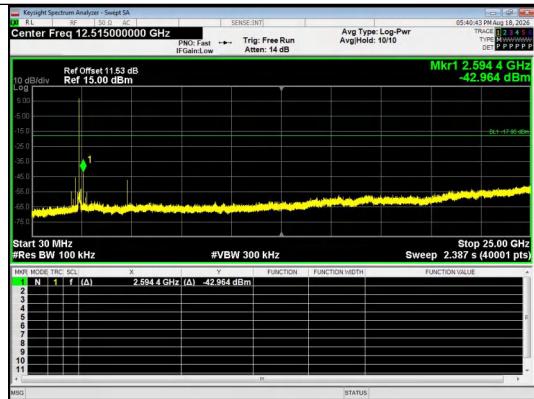
Hopping

Modulation	Packet	Channel	OOB Emission Frequency (MHz)	OOB Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Verdict
GFSK	DH5	Hopping	2379.07	-54.064	-18.07	-35.994	PASS
			2400.00	-54.312	-18.07	-36.242	PASS
			2483.50	-55.866	-17.35	-38.516	PASS
$\pi/4$ DQPSK	2-DH5		2400.00	-50.075	-18.25	-31.825	PASS
			2483.50	-55.354	-17.32	-38.034	PASS
8DPSK	3-DH5		2400.00	-48.187	-18.24	-29.947	PASS
			2483.50	-55.509	-17.37	-38.139	PASS

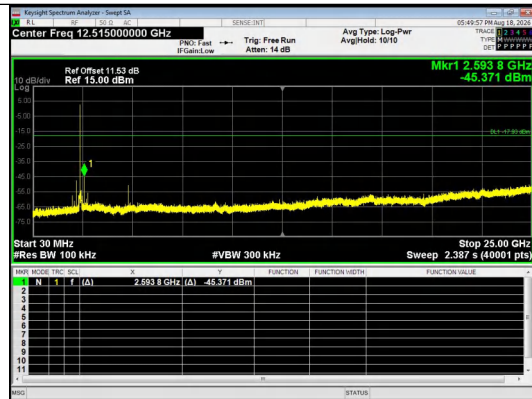
Note: input compensation coefficient (dB)= Cable Loss (dB)

Test Graphs

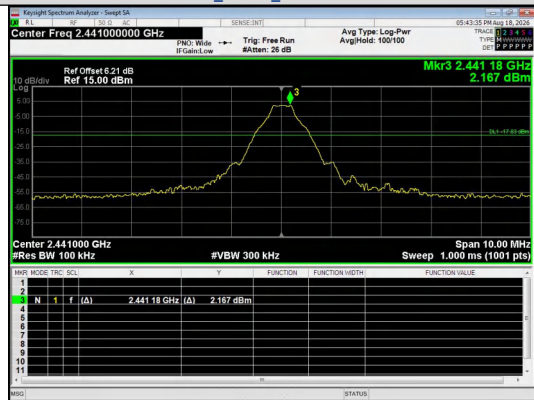
Out Of Band Emission
GFSK_DH5_Channel 0Out Of Band Emission
 $\pi/4$ DQPSK_2-DH5_Channel 0



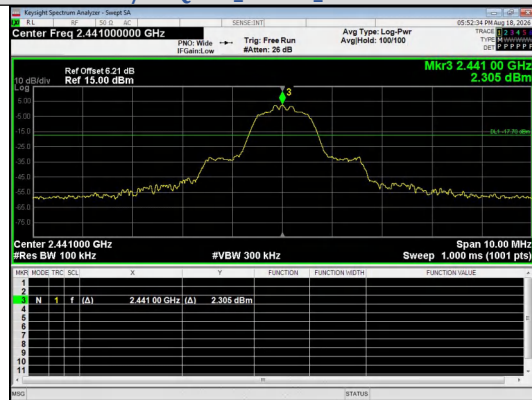
30.0 MHz - 25000.0 MHz
GFSK_DH5_Channel 0



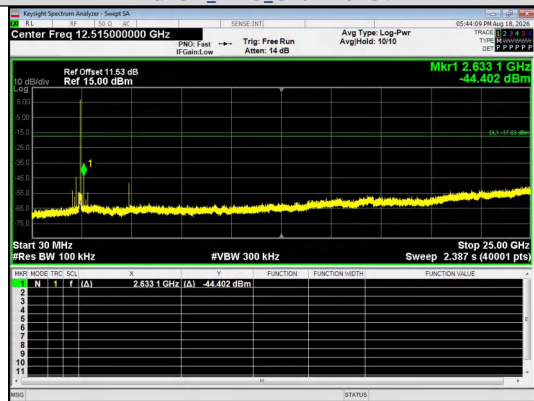
30.0 MHz - 25000.0 MHz
 $\pi/4$ DQPSK_2-DH5_Channel 0



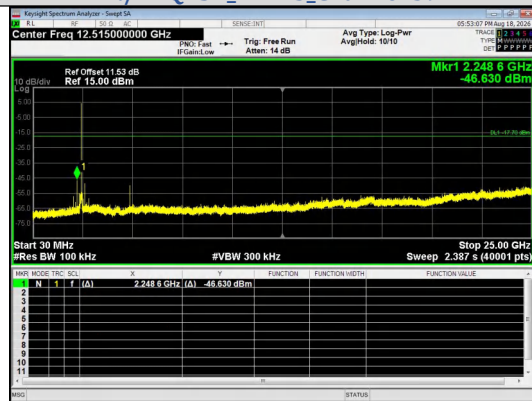
Out Of Band Emission
GFSK_DH5_Channel 39



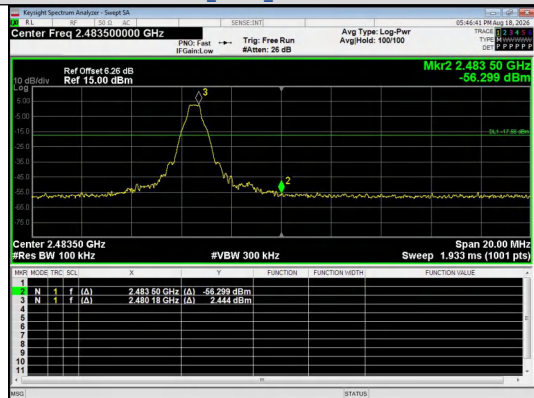
Out Of Band Emission
 $\pi/4$ DQPSK_2-DH5_Channel 39



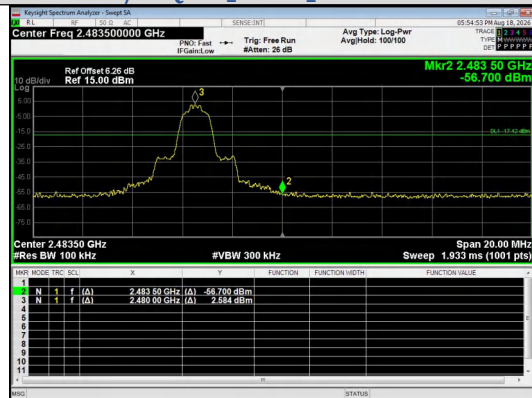
30.0 MHz - 25000.0 MHz
GFSK_DH5_Channel 39



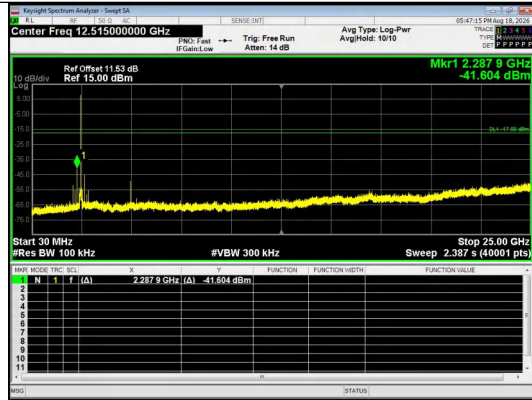
30.0 MHz - 25000.0 MHz
 $\pi/4$ DQPSK_2-DH5_Channel 39



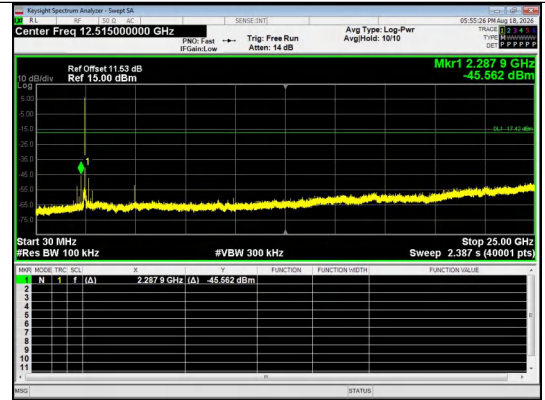
Out Of Band Emission
GFSK_DH5_Channel 78



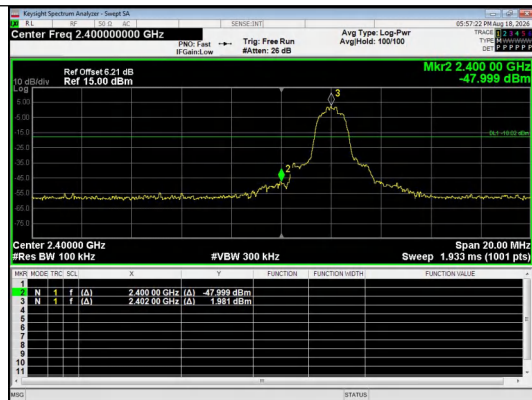
Out Of Band Emission
 $\pi/4$ DQPSK_2-DH5_Channel 78



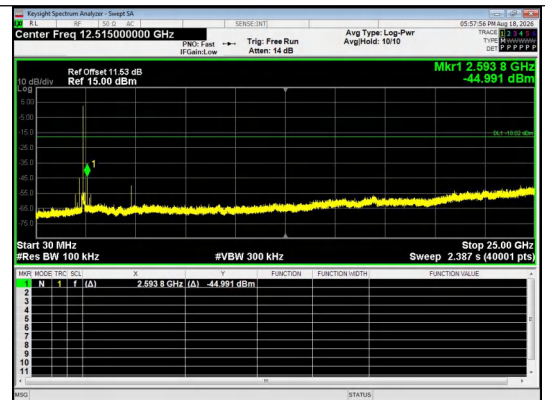
30.0 MHz - 25000.0 MHz
GFSK_DH5_Channel 78



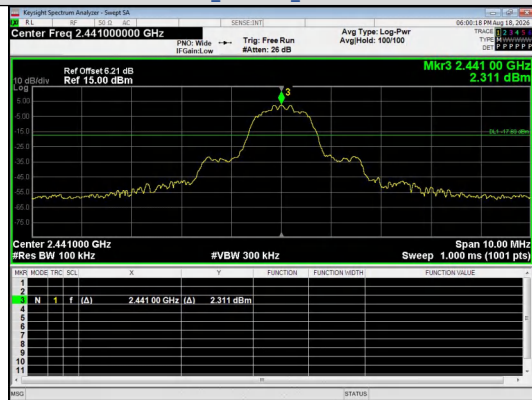
30.0 MHz - 25000.0 MHz
 $\pi/4$ DQPSK_2-DH5_Channel 78



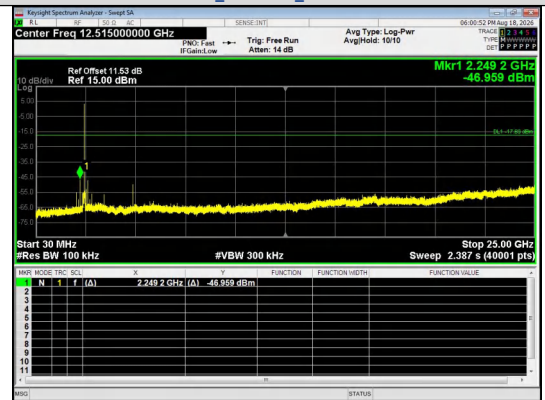
Out Of Band Emission
8DPSK_3-DH5_Channel 0



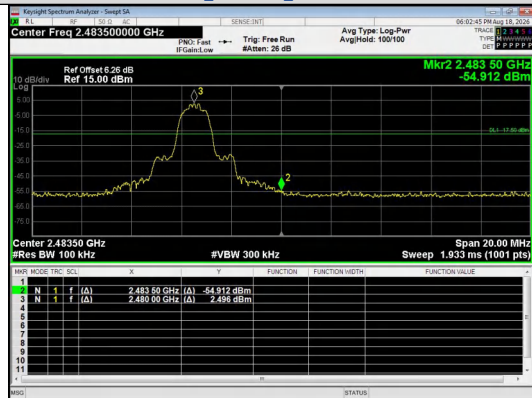
30.0 MHz - 25000.0 MHz
8DPSK_3-DH5_Channel 0



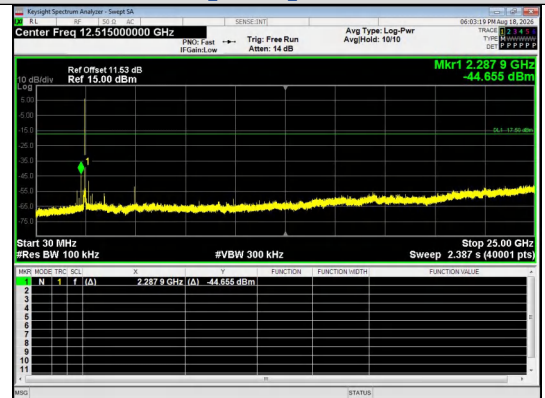
Out Of Band Emission
8DPSK_3-DH5_Channel 39



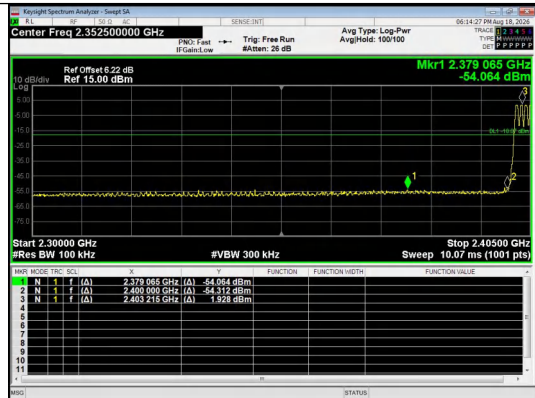
30.0 MHz - 25000.0 MHz
8DPSK_3-DH5_Channel 39



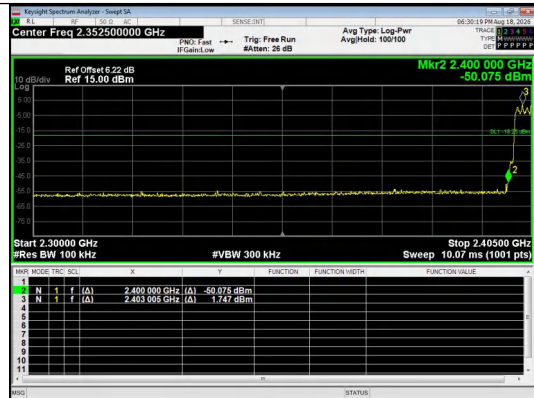
Out Of Band Emission



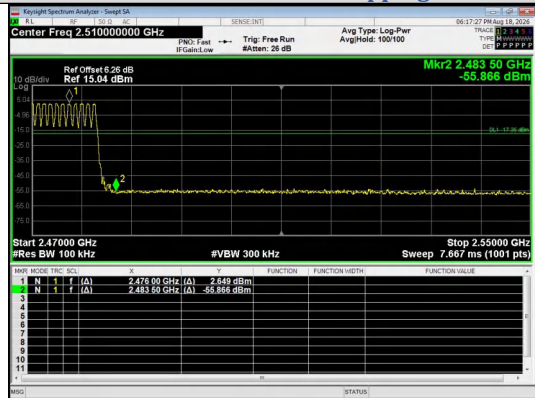
30.0 MHz - 25000.0 MHz



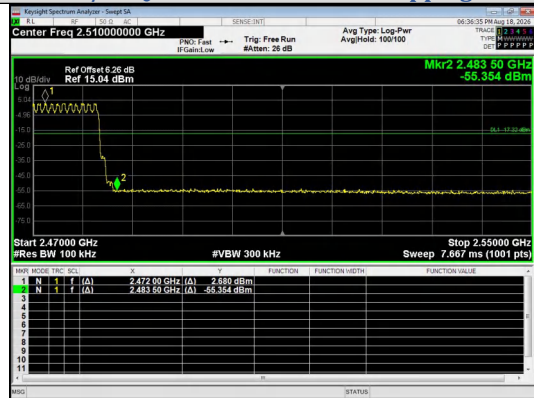
Out Of Band Emission(Left)
GFSK_DH5_Channel Hopping



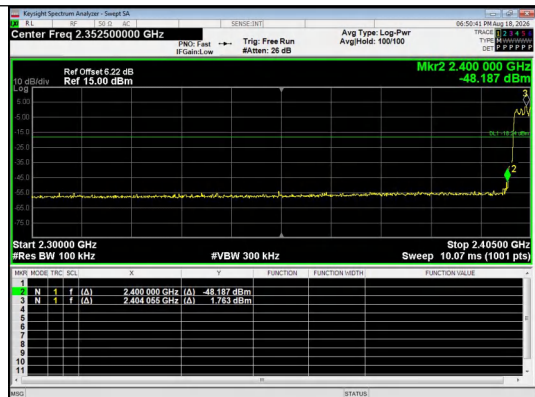
Out Of Band Emission(Right)
 $\pi/4$ DQPSK_2-DH5_Channel Hopping



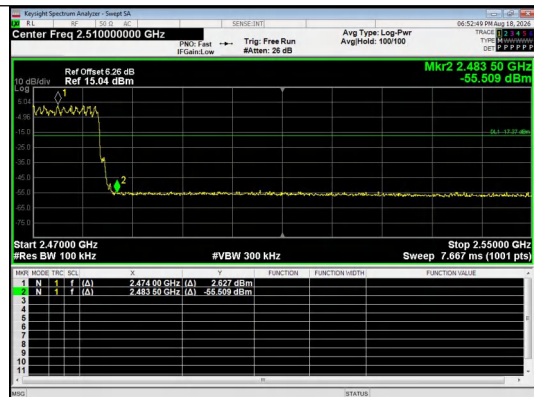
Out Of Band Emission(Right)
GFSK_DH5_Channel Hopping



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



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



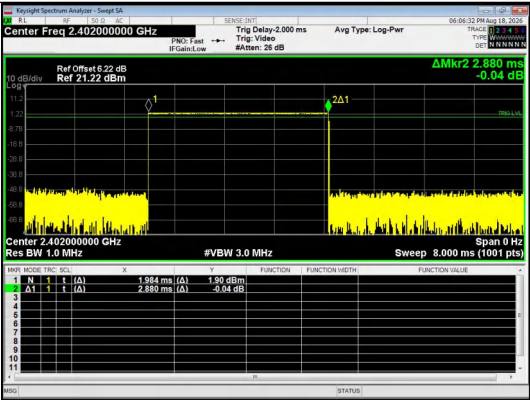
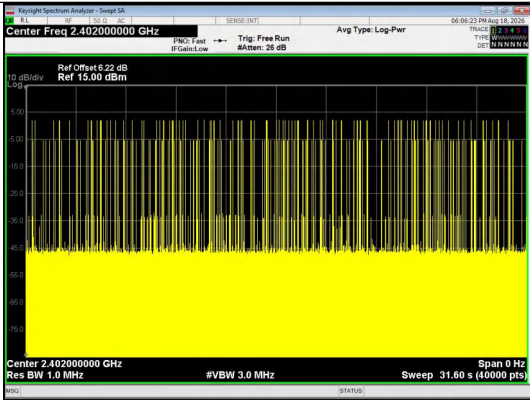
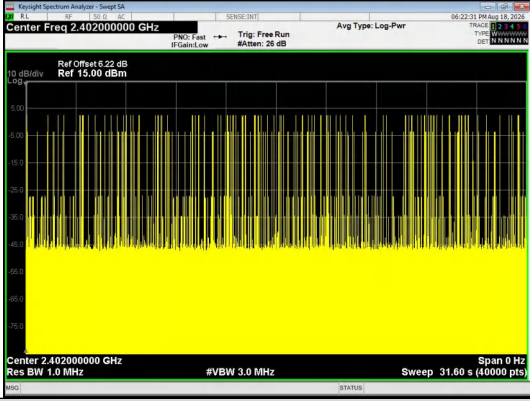
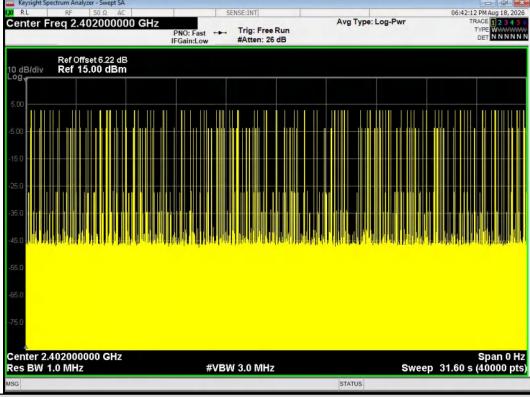
Out Of Band Emission(Right)
8DPSK_3-DH5_Channel Hopping

Dwell Time

Test Result

Modulation	Packet	Channel	Pulse Width (ms)	Number of Pulses in 31.6 seconds	Dwell Time (ms)	Limit (ms)	Verdict
GFSK	DH5	Hopping	2.8800	95	273.6	< 400	PASS
$\pi/4$ DQPSK	2-DH5		2.8800	98	282.24		PASS
8DPSK	3-DH5		2.8800	111	319.68		PASS
Note: Dwell time=Pulse time(ms)*Number of Pulses in 31.6 seconds							

Test Graphs

	
Pulse Width GFSK_DH5	Number of Pulses in 31.6 seconds GFSK_DH5
	
Pulse Width $\pi/4$ DQPSK_2-DH5	Number of Pulses in 31.6 seconds $\pi/4$ DQPSK_2-DH5
	
Pulse Width 8DPSK_3-DH5	Number of Pulses in 31.6 seconds 8DPSK_3-DH5

Number Of Hopping Channel

Test Result

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

Test Graphs

