

Duty Cycle

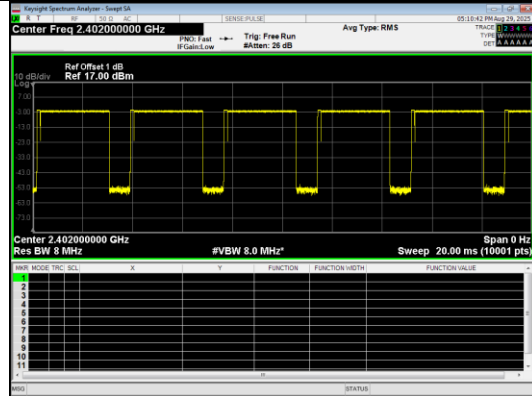
Test Result

Modulation	Packets	Channel	On Time (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle (linear)	Duty Cycle Factor (dB)	1/T
GFSK	DH5	0	2.908	3.748	77.59	0.7759	1.1019	0.3439
		39	2.908	3.748	77.59	0.7759	1.1019	0.3439
		78	2.908	3.748	77.59	0.7759	1.1019	0.3439
$\pi/4$ DQPSK	2-DH5	0	2.898	3.748	77.32	0.7732	1.1171	0.3451
		39	2.898	3.748	77.32	0.7732	1.1171	0.3451
		78	2.896	3.748	77.27	0.7727	1.1199	0.3453
8DPSK	3-DH5	0	2.896	3.748	77.27	0.7727	1.1199	0.3453
		39	2.898	3.748	77.32	0.7732	1.1171	0.3451
		78	2.896	3.748	77.27	0.7727	1.1199	0.3453

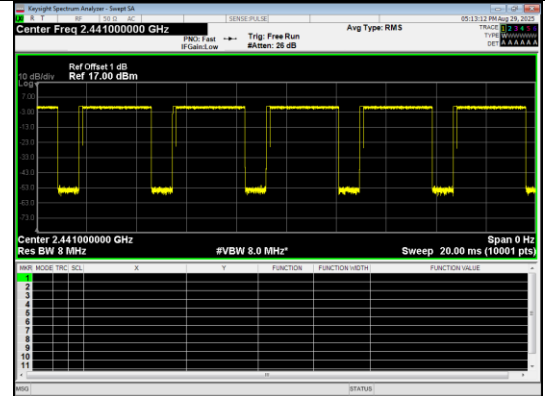
Test Graphs



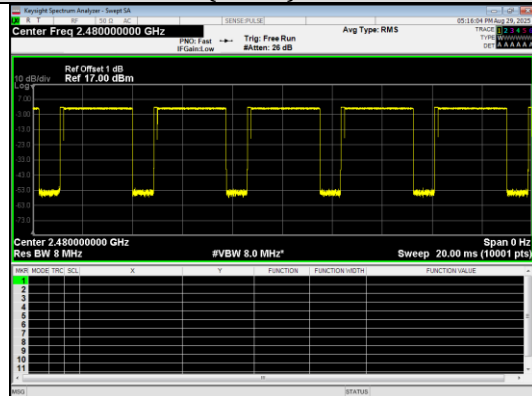
$\pi/4$ DQPSK(2-DH5)_Channel 39



$\pi/4$ DQPSK(2-DH5)_Channel 78



8DPSK(3-DH5)_Channel 0



8DPSK(3-DH5)_Channel 39

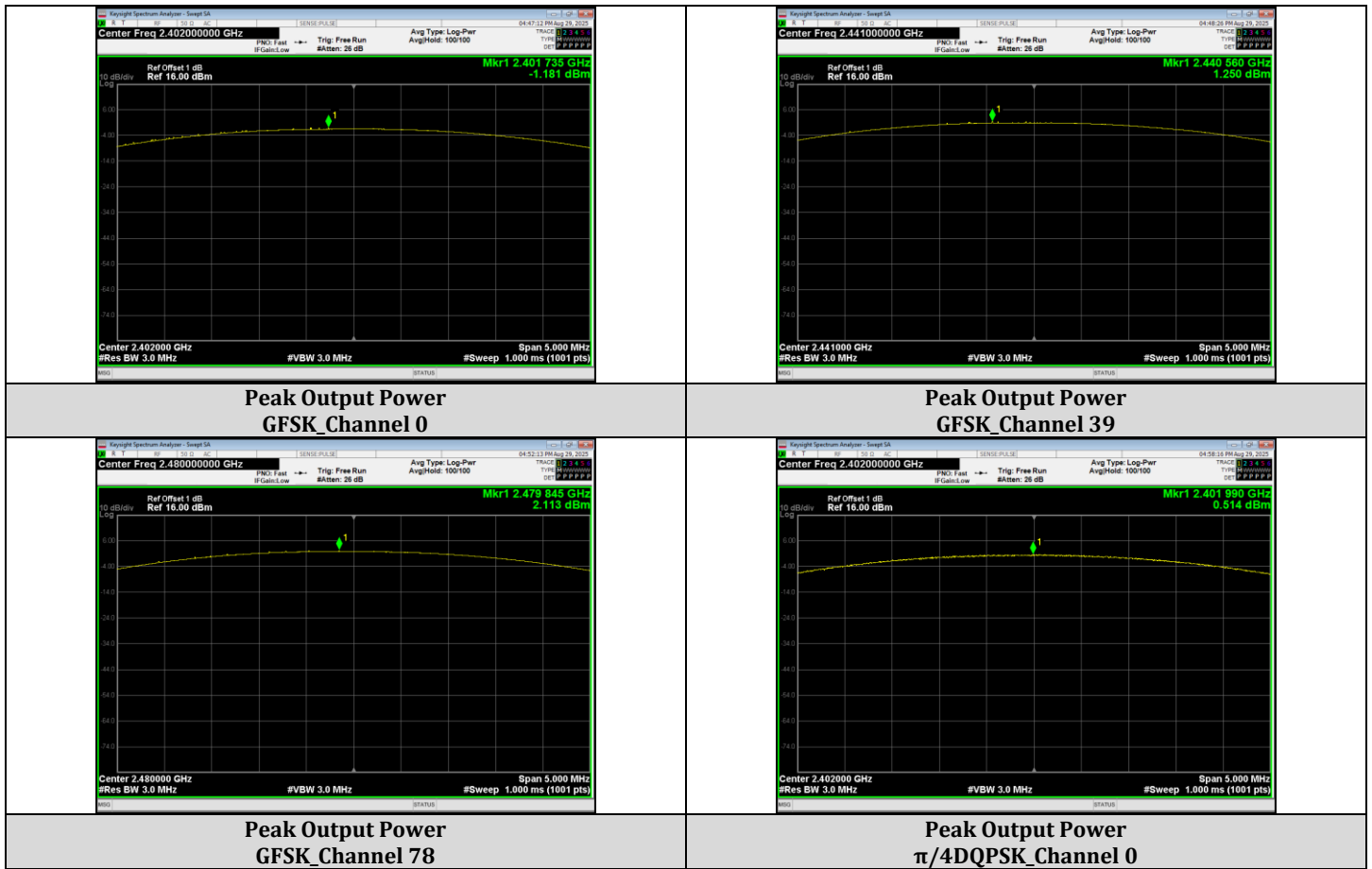
8DPSK(3-DH5)_Channel 78

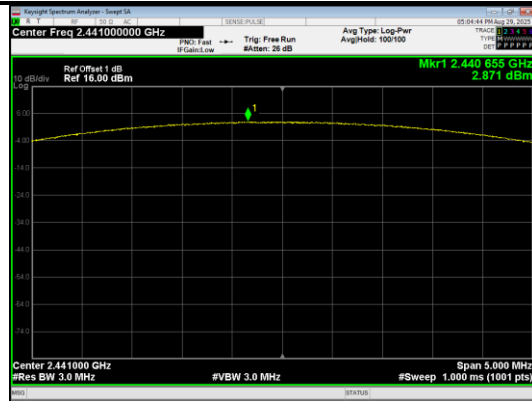
Conducted Output Power

Test Result

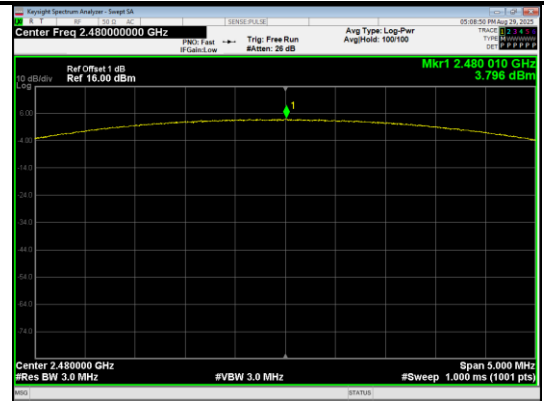
Modulation	Packet Type	Channel	Peak Output Power (dBm)	Peak Output Power (mW)	Limit (dBm)	Result
GFSK	DH5	0	-1.18	0.76	≤30	PASS
		39	1.25	1.33		PASS
		78	2.11	1.63		PASS
$\pi/4$ DQPSK	2-DH5	0	0.51	1.12	≤20.97	PASS
		39	2.87	1.94		PASS
		78	3.80	2.40		PASS
8DPSK	3-DH5	0	0.96	1.25	≤20.97	PASS
		39	3.25	2.11		PASS
		78	3.95	2.48		PASS

Test Graphs

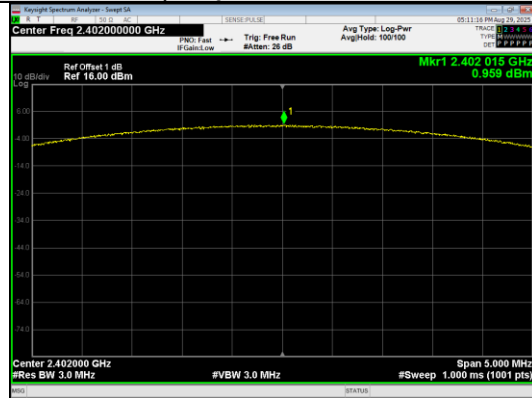




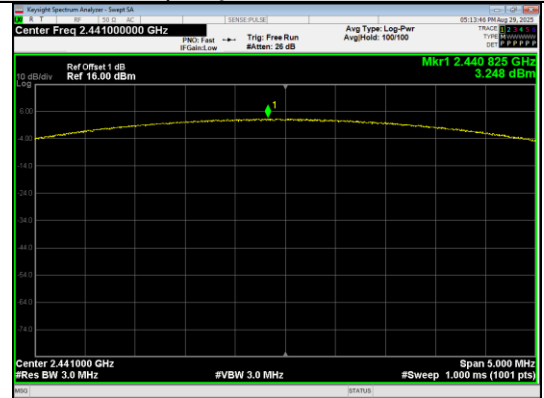
Peak Output Power
 $\pi/4$ DQPSK_Channel 39



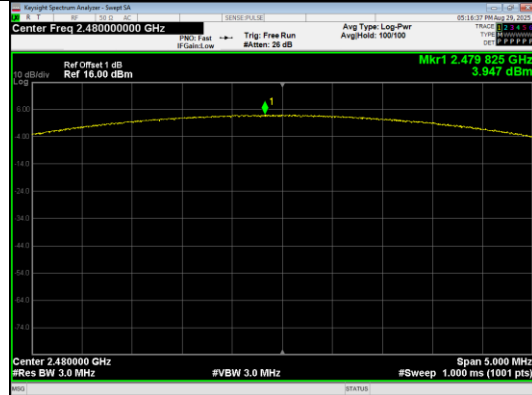
Peak Output Power
 $\pi/4$ DQPSK_Channel 78



Peak Output Power
8DPSK_Channel 0



Peak Output Power
8DPSK_Channel 39



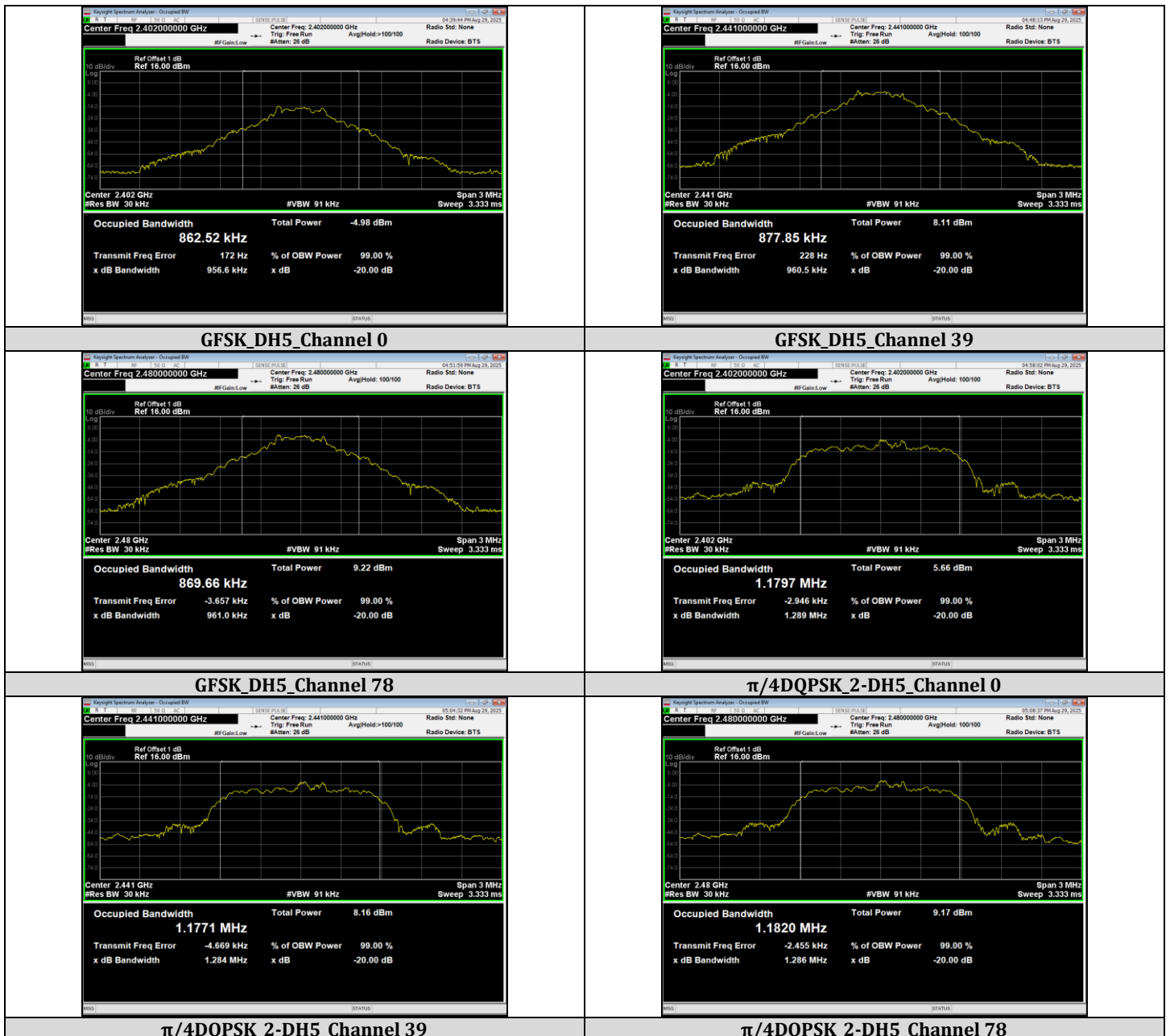
Peak Output Power
8DPSK_Channel 78

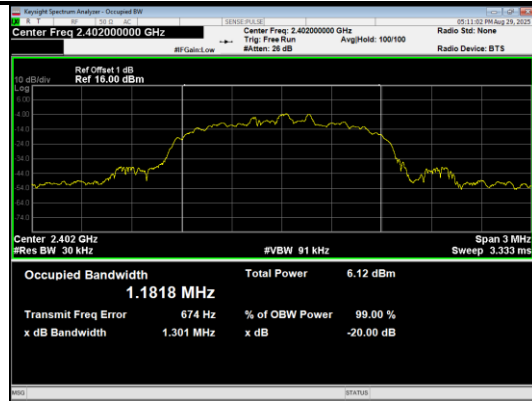
20dB Bandwidth

Test Result

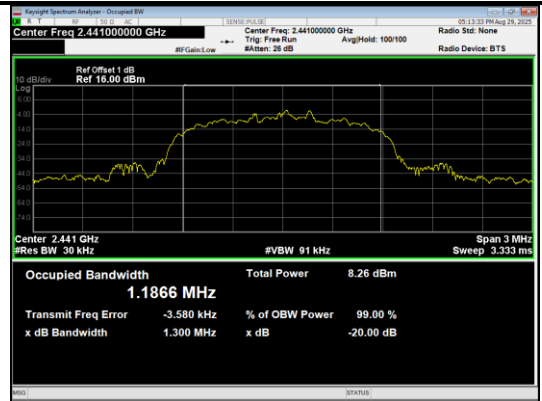
Modulation	Channel	Center Frequency (MHz)	20 dB Bandwidth (MHz)
GFSK	0	2402 MHz	0.9600
	39	2441 MHz	0.9600
	78	2480 MHz	0.9600
$\pi/4$ DQPSK	0	2402 MHz	1.290
	39	2441 MHz	1.280
	78	2480 MHz	1.290
8DPSK	0	2402 MHz	1.300
	39	2441 MHz	1.300
	78	2480 MHz	1.300

Test Graphs

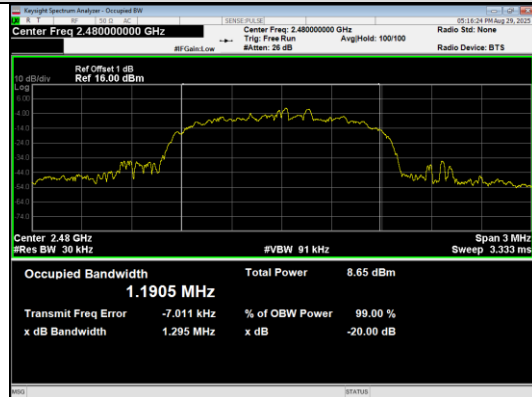




8DPSK_3-DH5_Channel 0



8DPSK_3-DH5_Channel 39



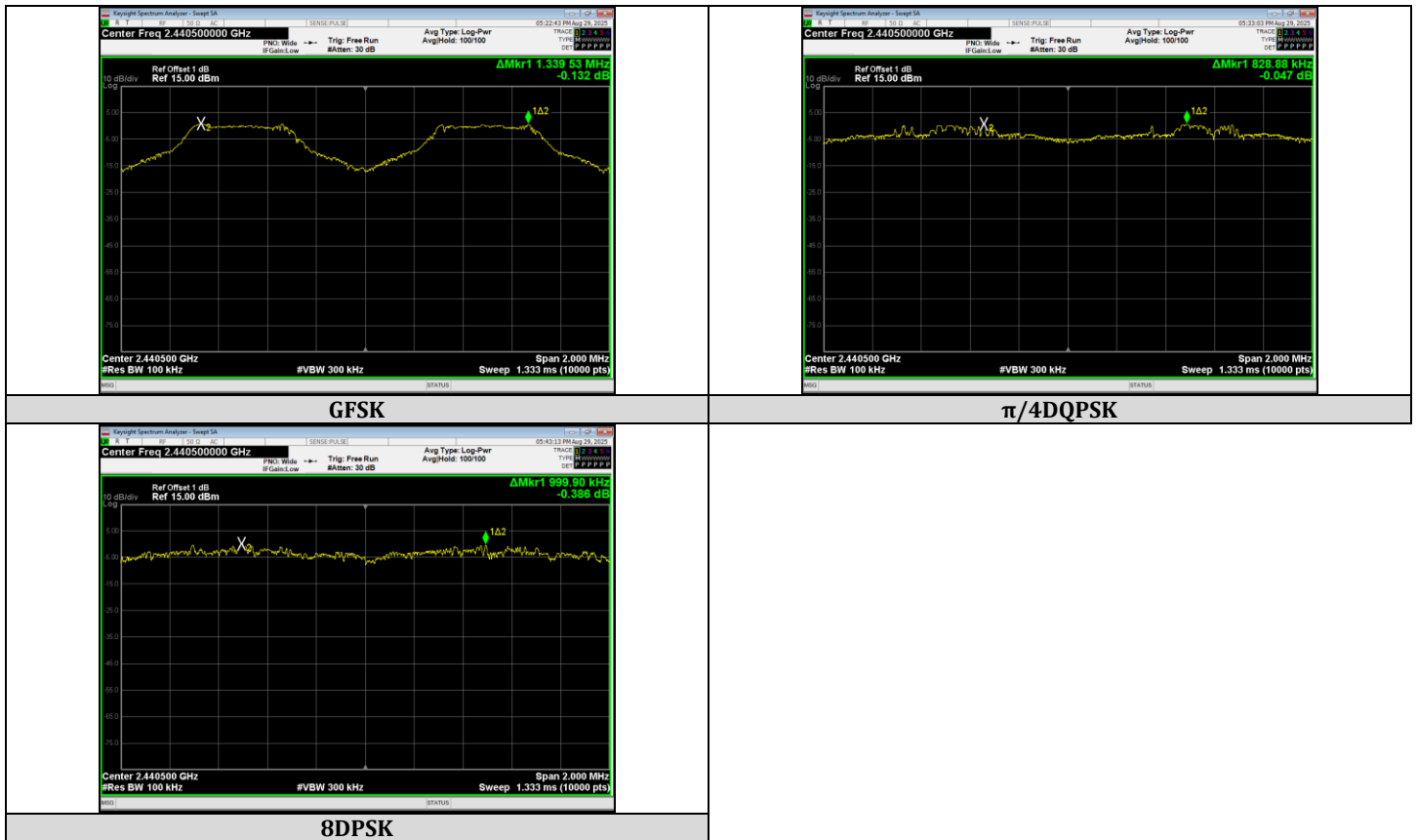
8DPSK_3-DH5_Channel 78

Carrier Frequencies Separation

Test Result

Modulation	Packet	Left Center frequency (MHz)	Right Center frequency (MHz)	Hopping Frequency Separation (MHz)	Limit (MHz)	Result
GFSK	DH5	2439.827	2441.1666	1.3395	0.99	PASS
$\pi/4$ DQPSK	2-DH5	2440.1559	2440.9847	0.8289	0.99	PASS
8DPSK	3-DH5	2439.9928	2440.9927	0.9999	0.99	PASS

Test Graphs

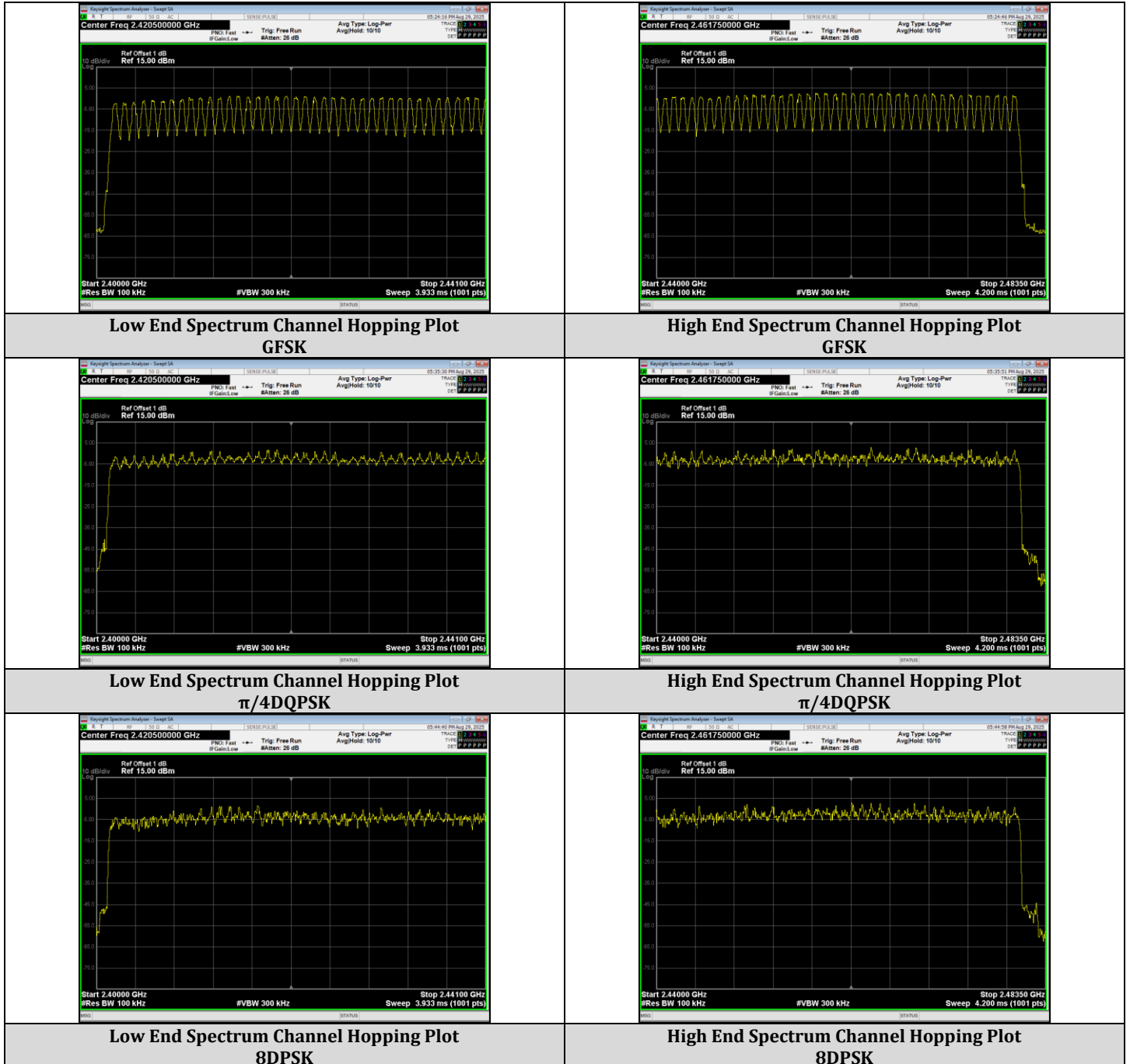


Number Of Hopping Channel

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

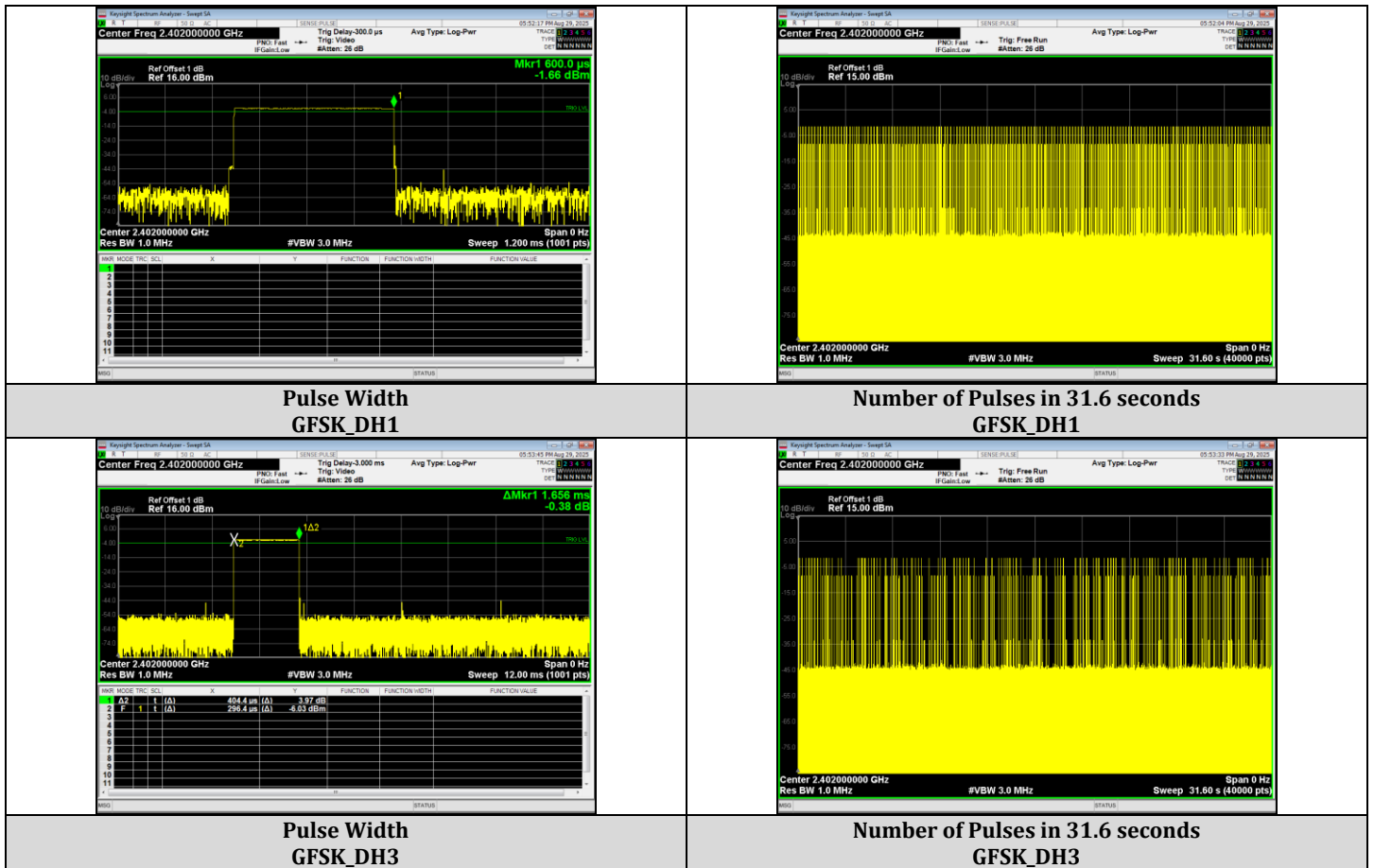


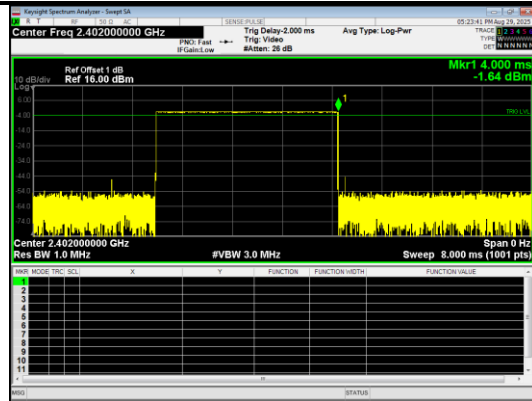
Dwell Time

Test Result

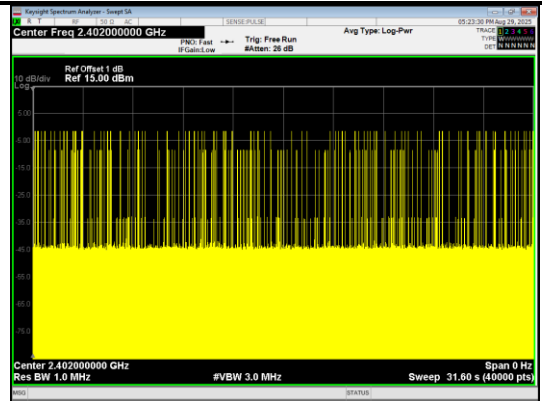
Modulation	Packet	Channel	Pulse Width (ms)	Number of Pulses in 31.6 seconds	Dwell Time (ms)	Limit (ms)	Result
GFSK	DH1	Hopping	0.4044	318	128.6	< 400	PASS
	DH3		1.656	152	251.71		PASS
	DH5		2.912	107	311.58		PASS
$\pi/4$ DQPSK	2-DH1		0.3972	319	126.71		PASS
	2-DH3		1.632	164	267.65		PASS
	2-DH5		2.896	110	318.56		PASS
8DPSK	3-DH1		0.3960	319	126.32		PASS
	3-DH3		1.656	154	255.02		PASS
	3-DH5		2.896	111	321.46		PASS

Test Graphs

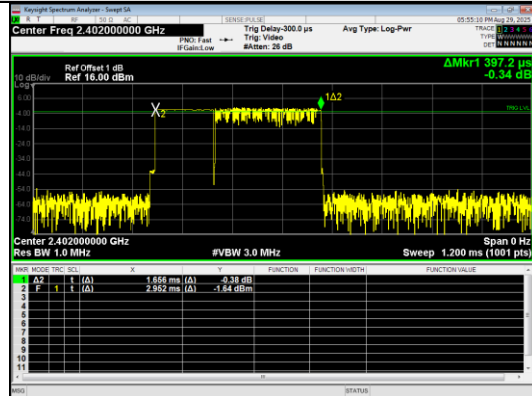




Pulse Width
GFSK_DH5



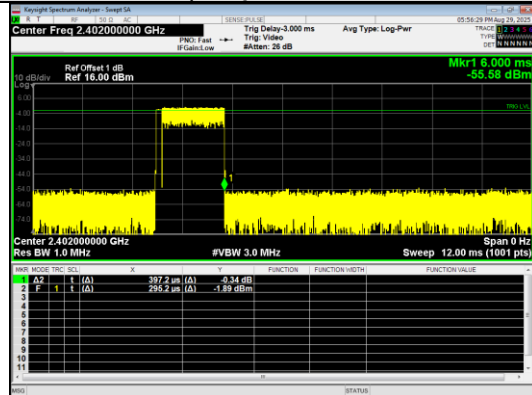
Number of Pulses in 31.6 seconds
GFSK_DH5



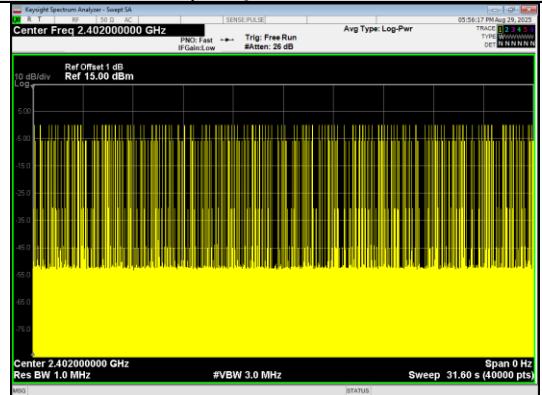
Pulse Width
 $\pi/4$ DQPSK_2-DH1



Number of Pulses in 31.6 seconds
 $\pi/4$ DQPSK_2-DH1



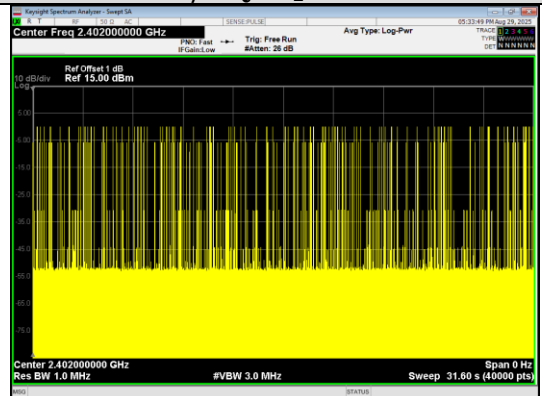
Pulse Width
 $\pi/4$ DQPSK_2-DH3



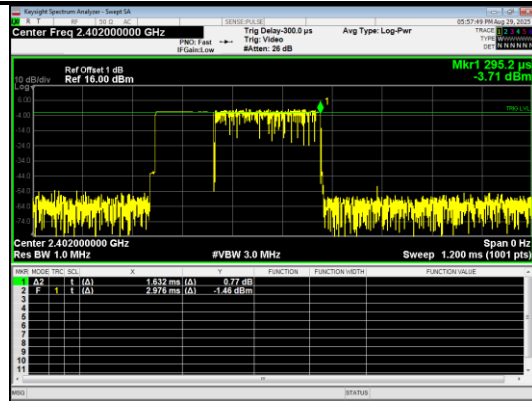
Number of Pulses in 31.6 seconds
 $\pi/4$ DQPSK_2-DH3



Pulse Width
 $\pi/4$ DQPSK_2-DH5



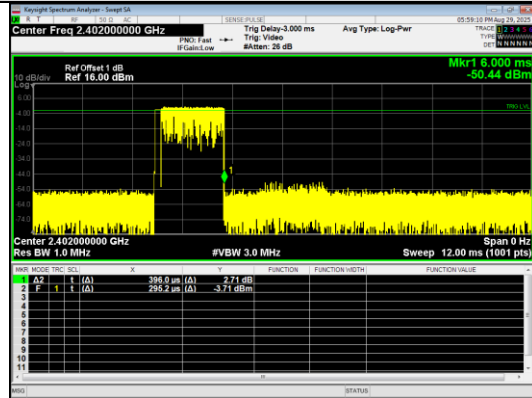
Number of Pulses in 31.6 seconds
 $\pi/4$ DQPSK_2-DH5



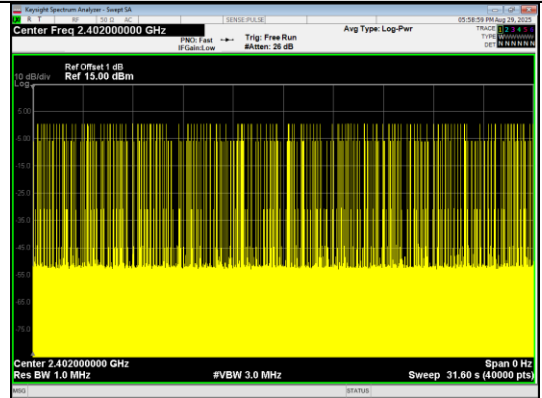
**Pulse Width
8DPSK_3-DH1**



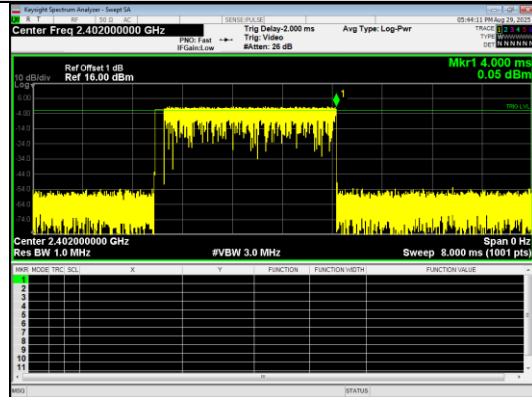
**Number of Pulses in 31.6 seconds
8DPSK_3-DH1**



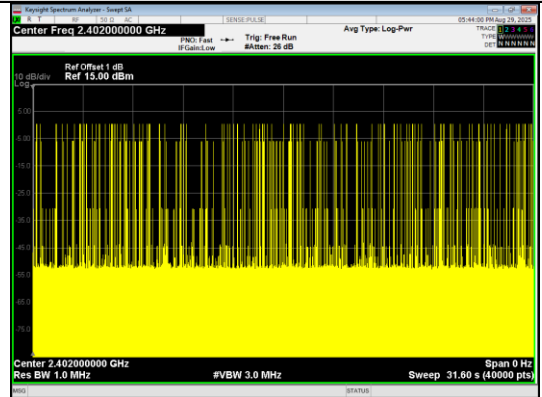
**Pulse Width
8DPSK_3-DH3**



**Number of Pulses in 31.6 seconds
8DPSK_3-DH3**



**Pulse Width
8DPSK_3-DH5**



**Number of Pulses in 31.6 seconds
8DPSK_3-DH5**

Conducted Out Of Band Emission

Test Result

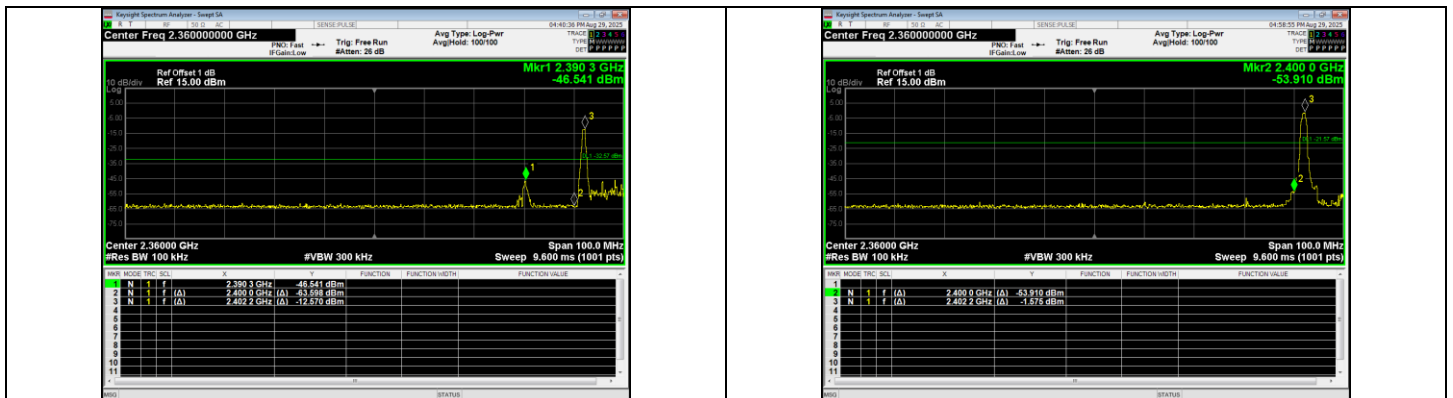
Non-Hopping

Modulation	Packet	Channel	OOB Emission Frequency (MHz)	OOB Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result
GFSK	DH5	0	2390.30	-46.541	-32.57	-13.971	PASS
			2400.00	-63.600	-32.57	-31.030	PASS
			24986.3	-49.833	-32.57	-17.263	PASS
		39	24935.7	-49.691	-19.23	-30.461	PASS
		78	2483.50	-62.620	-18.3	-44.320	PASS
			24950.7	-49.854	-18.3	-31.554	PASS
$\pi/4$ DQPSK	2-DH5	0	2400.00	-53.910	-21.57	-32.340	PASS
			24985.6	-49.841	-21.57	-28.271	PASS
		39	24986.9	-49.424	-19.22	-30.204	PASS
		78	2483.50	-56.010	-18.23	-37.780	PASS
			24985.6	-49.366	-18.23	-31.136	PASS
8DPSK	3-DH5	0	2390.30	-46.421	-21.41	-25.011	PASS
			2400.00	-53.450	-21.41	-32.040	PASS
			24394.5	-49.807	-21.41	-28.397	PASS
		39	2390.29	-48.641	-19.22	-29.421	PASS
		78	2483.50	-55.950	-18.43	-37.520	PASS
			24878.3	-49.062	-18.43	-30.632	PASS

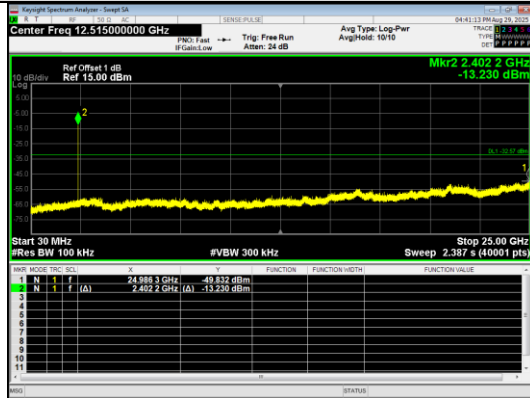
Hopping

Modulation	Packet	Channel	OOB Emission Frequency (MHz)	OOB Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result
GFSK	DH5	Hopping	2390.70	-35.219	-19.71	-15.509	PASS
			2400.00	-59.820	-19.71	-40.110	PASS
			2483.50	-60.990	-17.99	-43.000	PASS
$\pi/4$ DQPSK	2-DH5		2390.80	-53.916	-20.11	-33.806	PASS
			2400.00	-54.930	-20.11	-34.820	PASS
			2483.50	-57.740	-17.92	-39.820	PASS
8DPSK	3-DH5		2390.70	-45.490	-19.6	-25.890	PASS
			2400.00	-56.100	-19.6	-36.500	PASS
			2483.50	-56.870	-17.75	-39.120	PASS

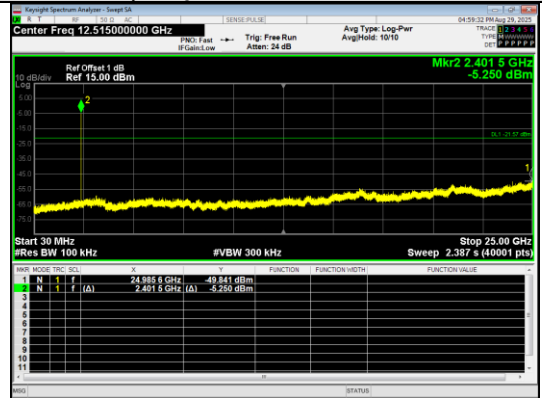
Test Graphs



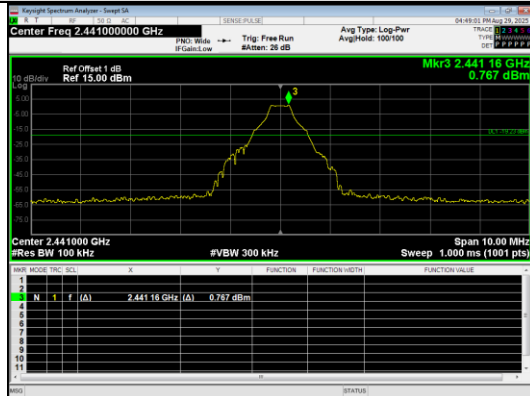
Out Of Band Emission GFSK_DH5_Channel 0



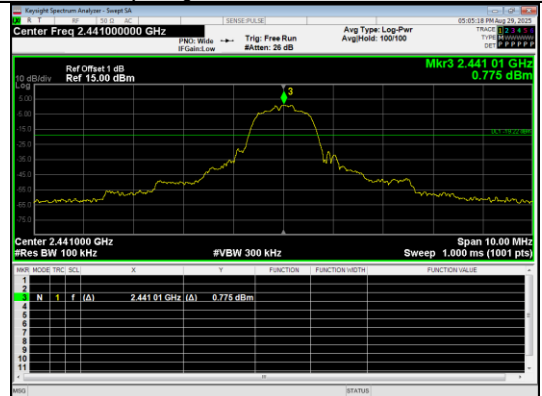
Out Of Band Emission $\pi/4$ DQPSK_2-DH5_Channel 0



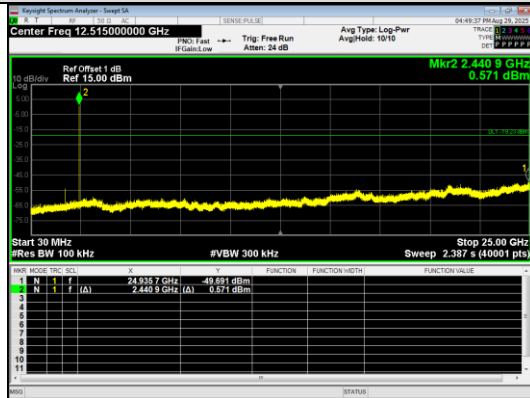
30.0 MHz - 25000.0 MHz GFSK_DH5_Channel 0



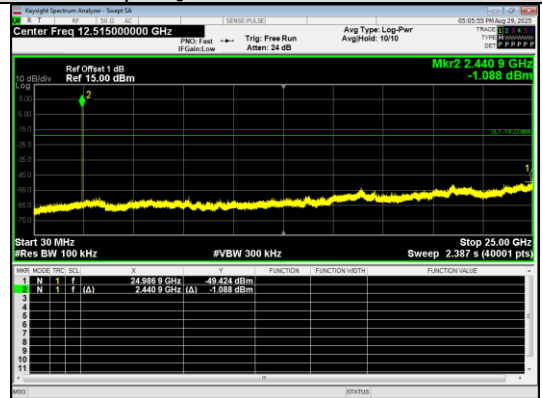
30.0 MHz - 25000.0 MHz $\pi/4$ DQPSK_2-DH5_Channel 0



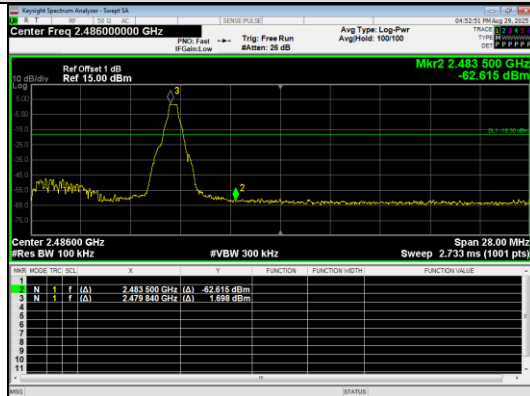
Out Of Band Emission GFSK_DH5_Channel 39



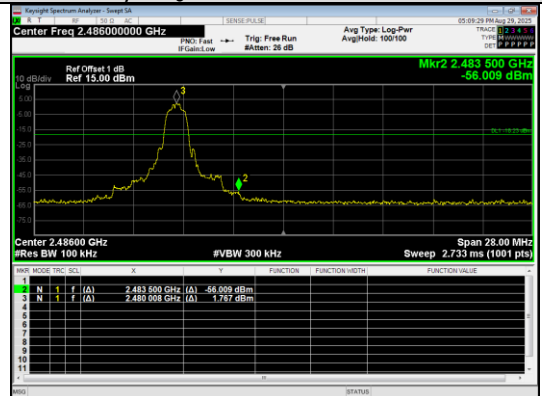
Out Of Band Emission $\pi/4$ DQPSK_2-DH5_Channel 39



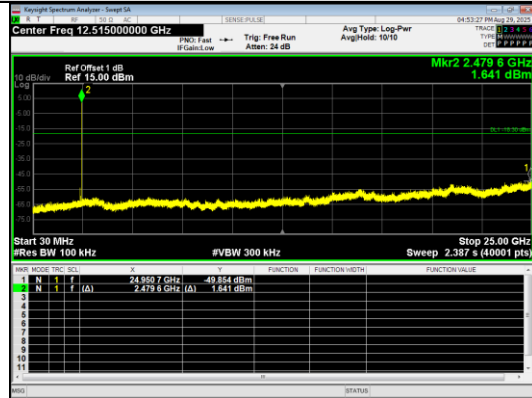
30.0 MHz - 25000.0 MHz GFSK_DH5_Channel 39



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

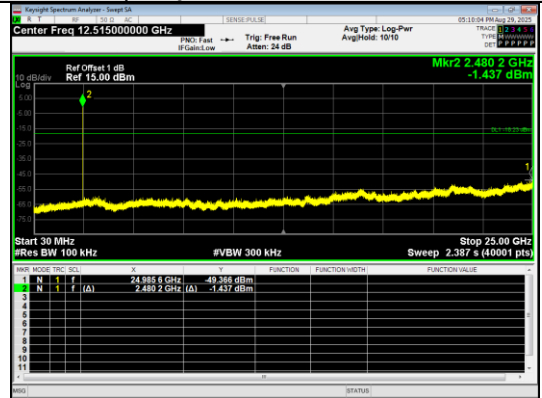


Out Of Band Emission GFSK_DH5_Channel 78

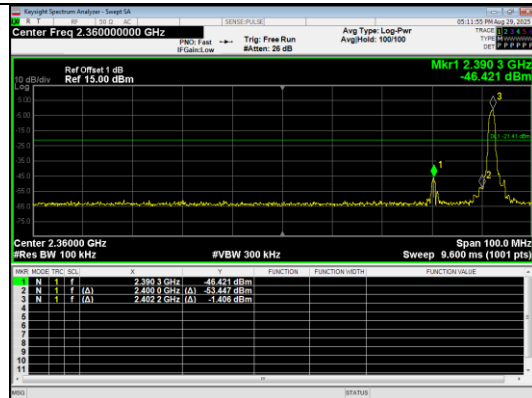


30.0 MHz - 25000.0 MHz
GFSK_DH5_Channel 78

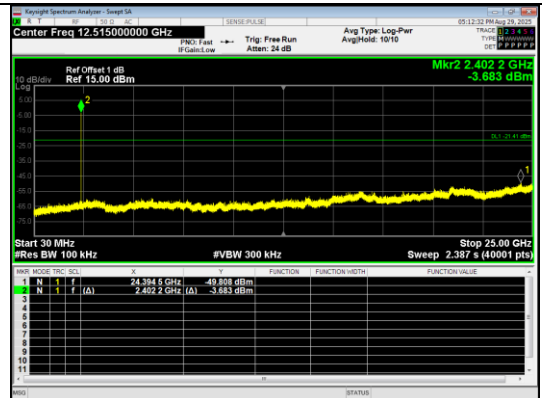
Out Of Band Emission $\pi/4$ DQPSK_2-DH5_Channel 78



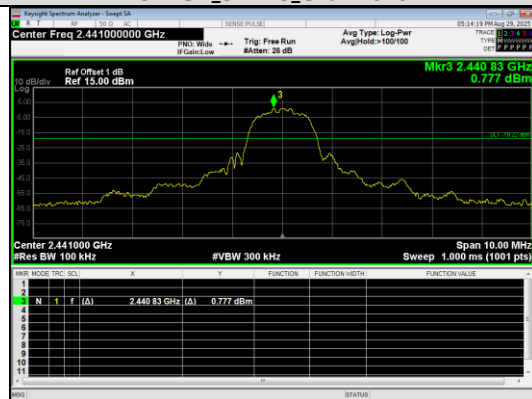
30.0 MHz - 25000.0 MHz
 $\pi/4$ DQPSK_2-DH5_Channel 78



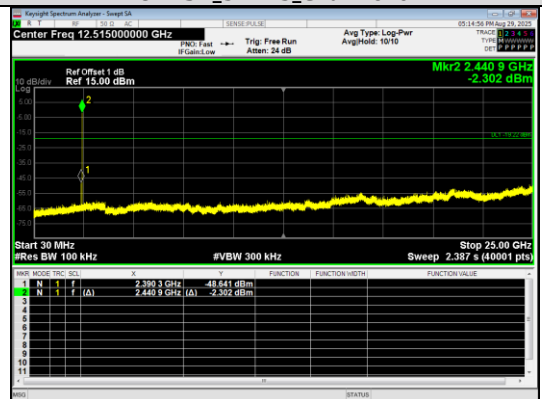
Out Of Band Emission
8DPSK_3-DH5_Channel 0



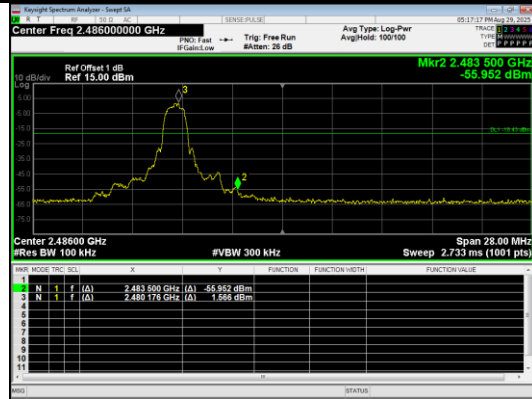
30.0 MHz - 25000.0 MHz
8DPSK_3-DH5_Channel 0



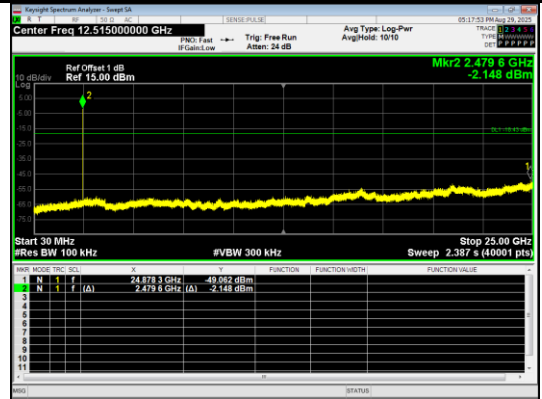
Out Of Band Emission
8DPSK_3-DH5_Channel 39



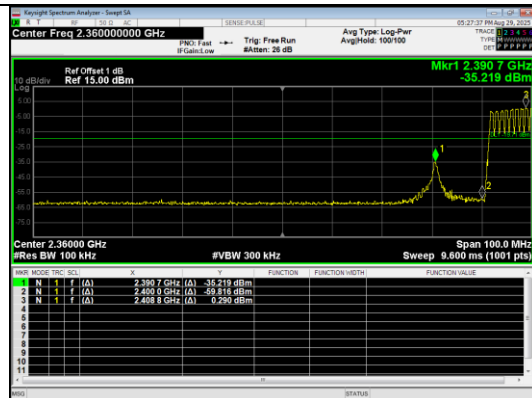
30.0 MHz - 25000.0 MHz
8DPSK_3-DH5_Channel 39



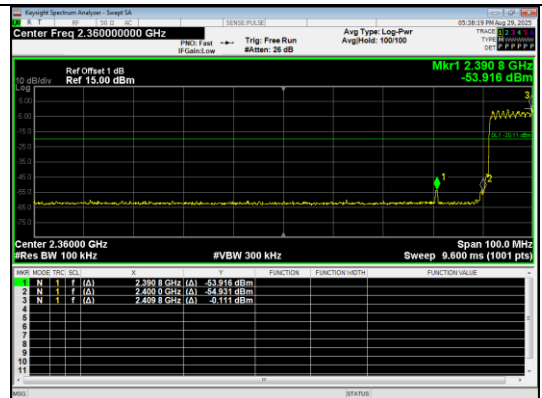
Out Of Band Emission
8DPSK_3-DH5_Channel 78



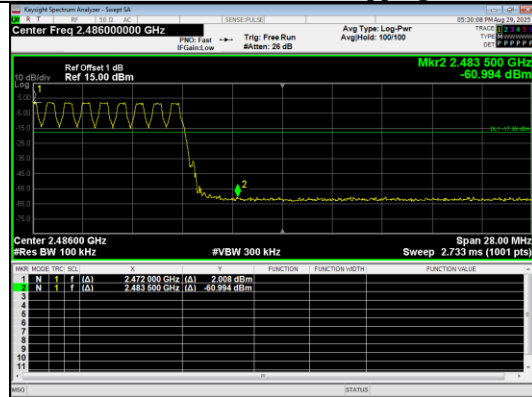
30.0 MHz - 25000.0 MHz
8DPSK_3-DH5_Channel 78



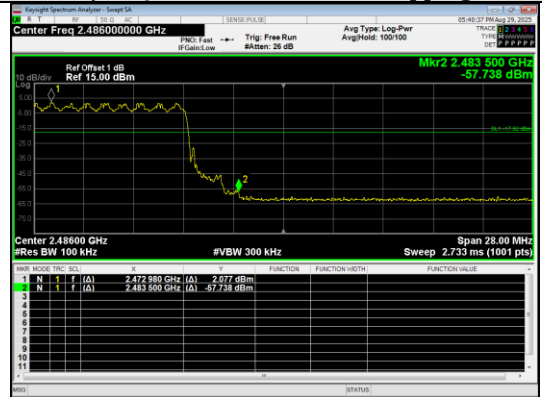
Out Of Band Emission(Left)
GFSK_DH5_Channel Hopping



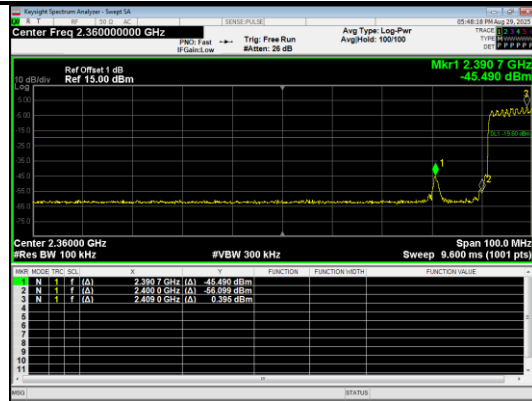
Out Of Band Emission(Left)
 $\pi/4$ DQPSK_2-DH5_Channel Hopping



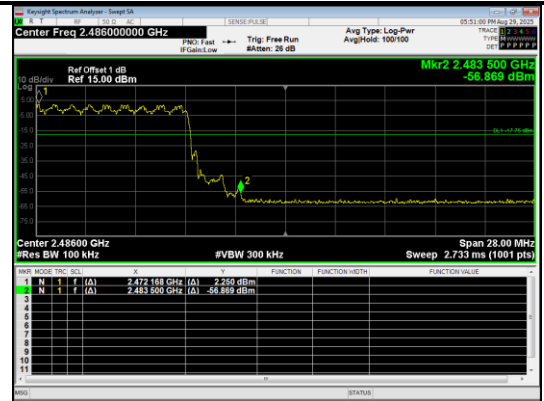
Out Of Band Emission(Right)
GFSK_DH5_Channel Hopping



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

***** End of Report *****