

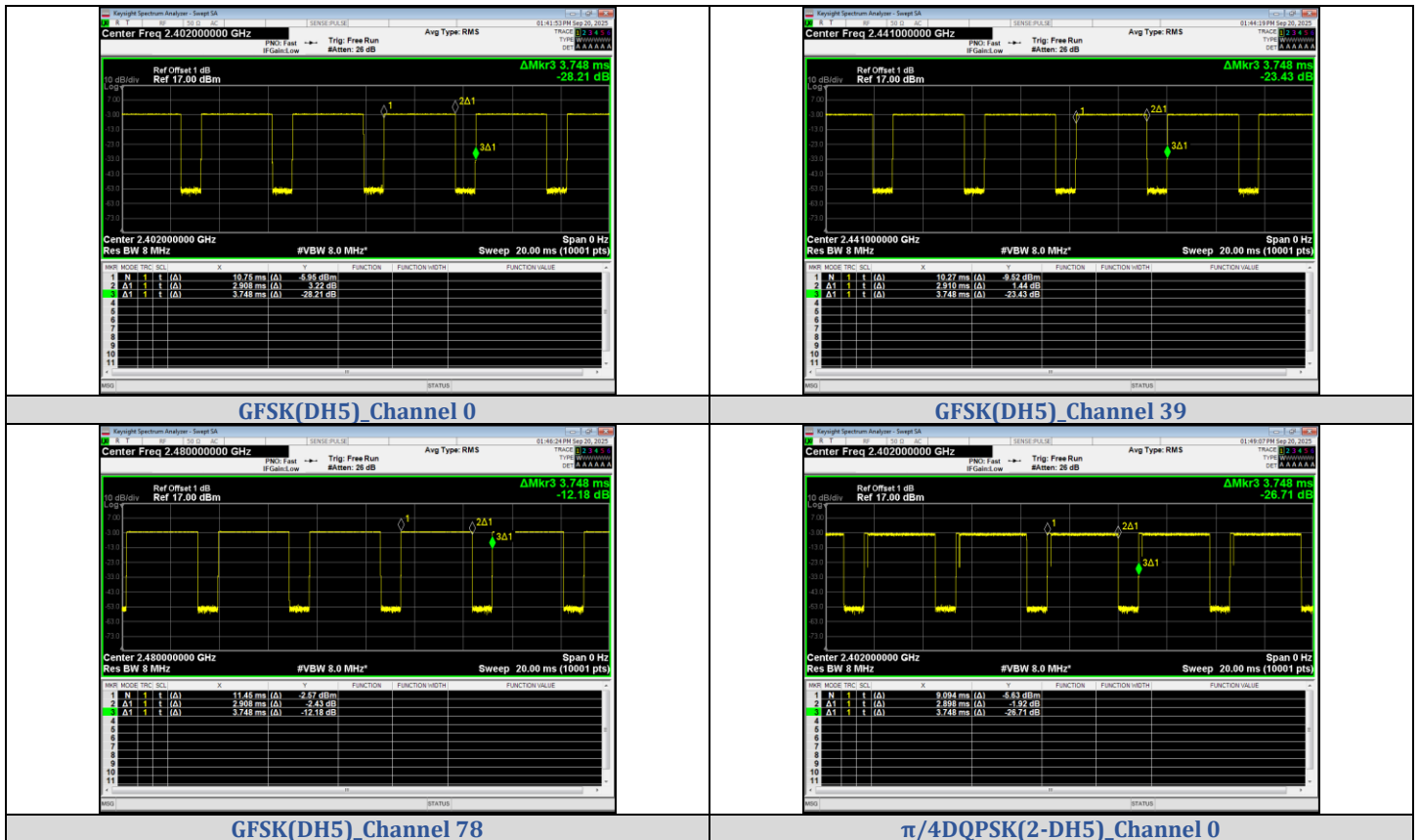


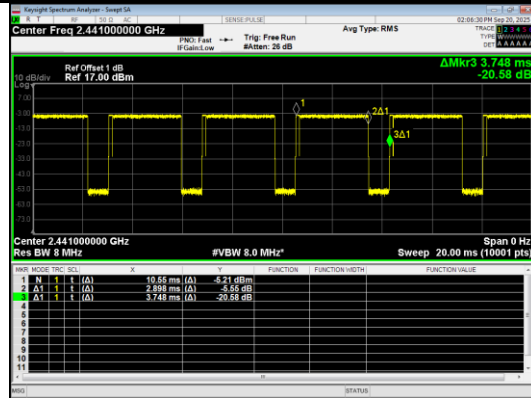
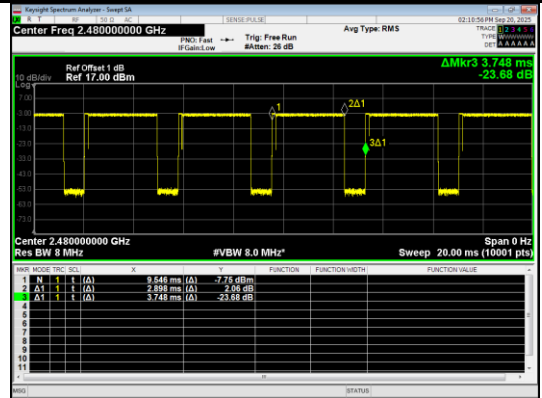
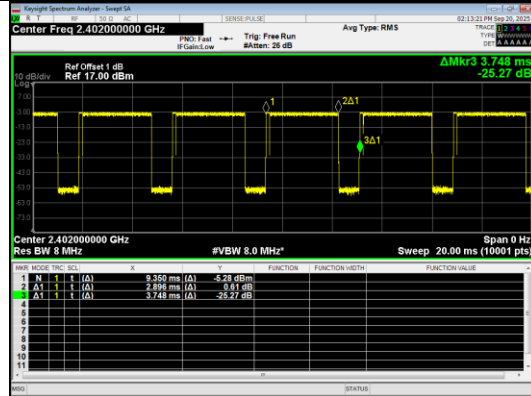
Duty Cycle

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	2.910	3.748	77.64	0.7764	1.0991	0.3436
		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	2.898	3.748	77.32	0.7732	1.1171	0.3451
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

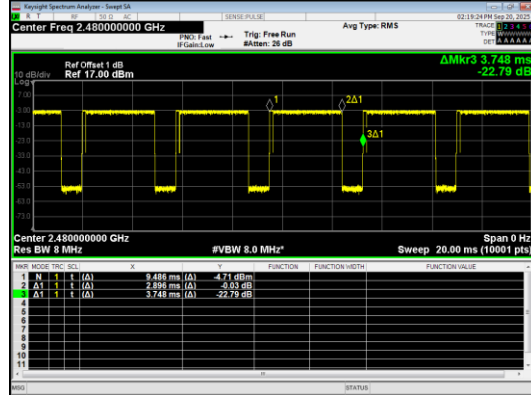



 $\pi/4$ DQPSK(2-DH5)_Channel 39

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


8DPSK(3-DH5)_Channel 0



8DPSK(3-DH5)_Channel 39



8DPSK(3-DH5)_Channel 78

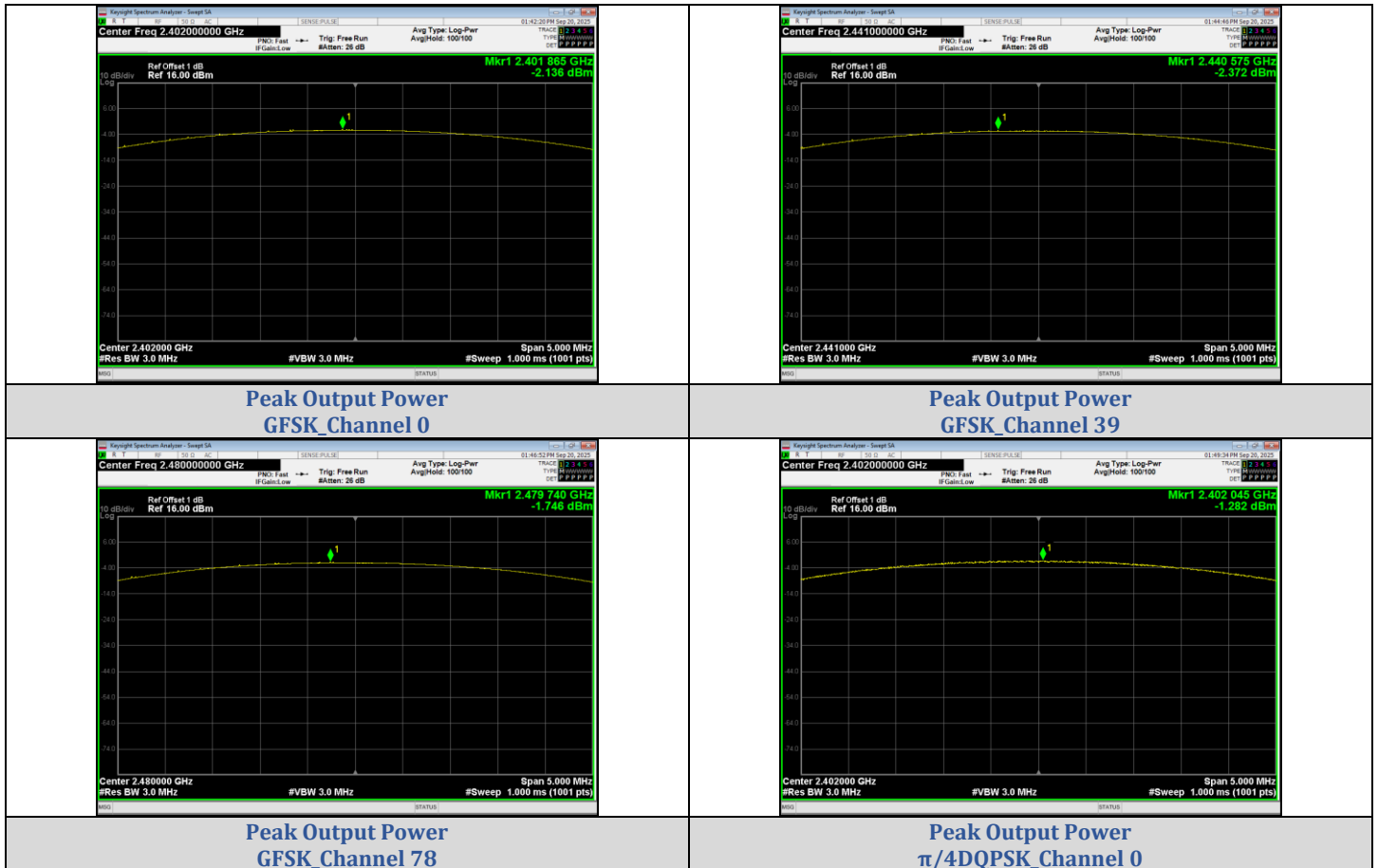


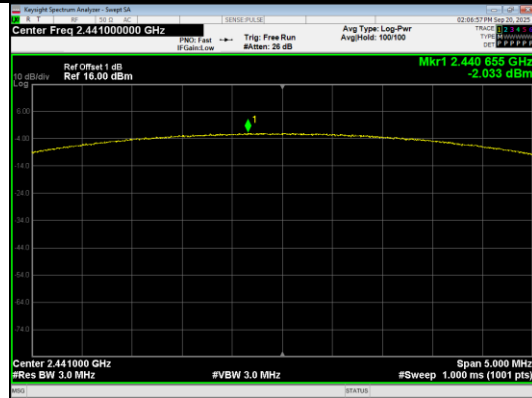
Conducted Output Power

Test Result

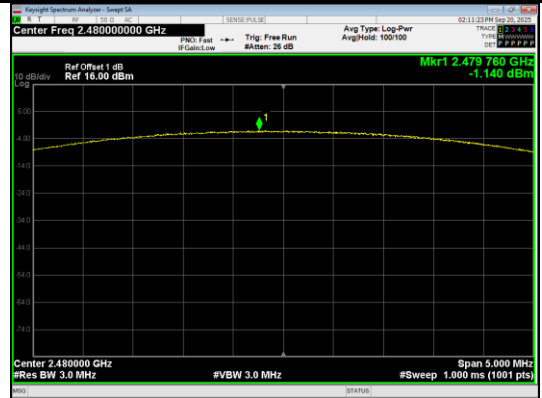
Modulation	Packet Type	Channel	Peak Output Power (dBm)	Limit (dBm)	Result
GFSK	DH5	0	-2.14	≤30	PASS
		39	-2.37		PASS
		78	-1.75		PASS
$\pi/4$ DQPSK	2-DH5	0	-1.28	≤20.97	PASS
		39	-2.03		PASS
		78	-1.14		PASS
8DPSK	3-DH5	0	-1.23		PASS
		39	-1.89		PASS
		78	-0.99		PASS

Test Graphs

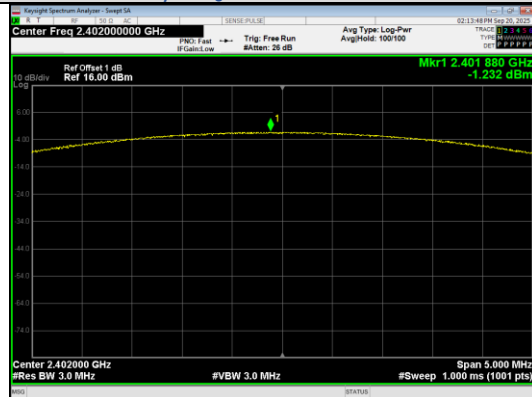




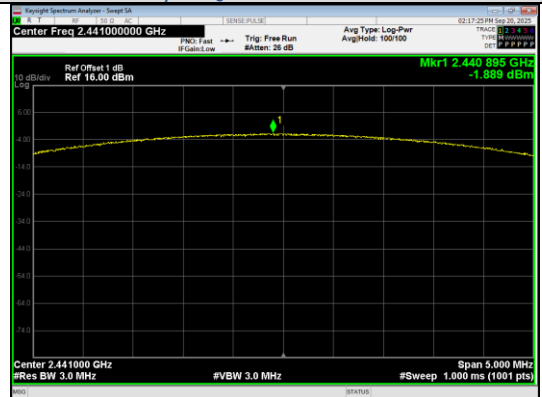
Peak Output Power
 $\pi/4$ DQPSK_Channel 39



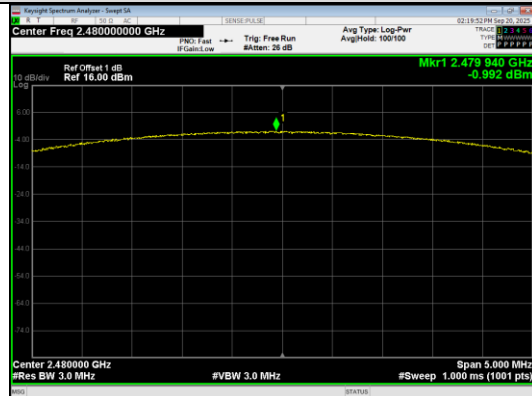
Peak Output Power
 $\pi/4$ DQPSK_Channel 78



Peak Output Power
8DPSK_Channel 0



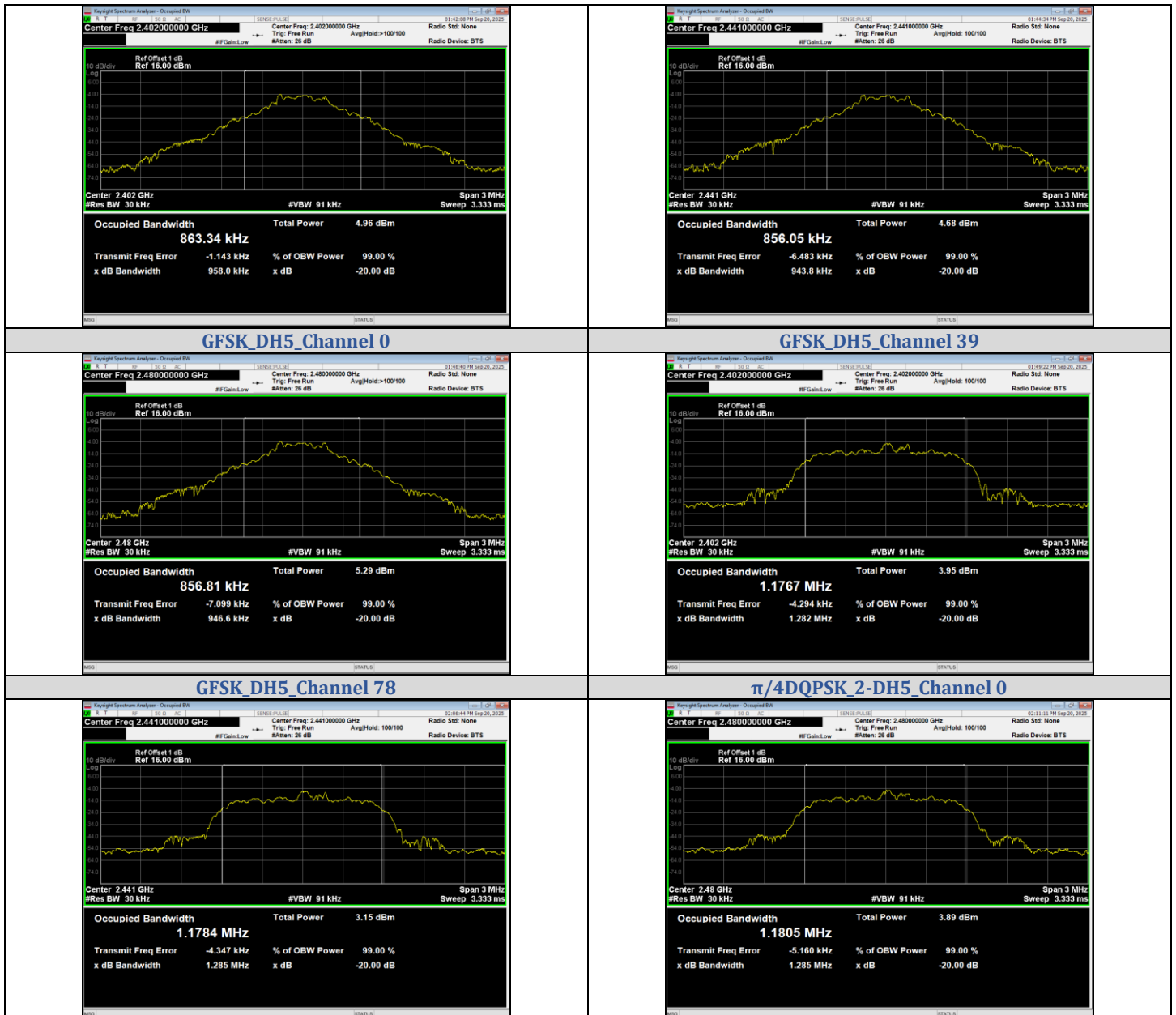
Peak Output Power
8DPSK_Channel 39

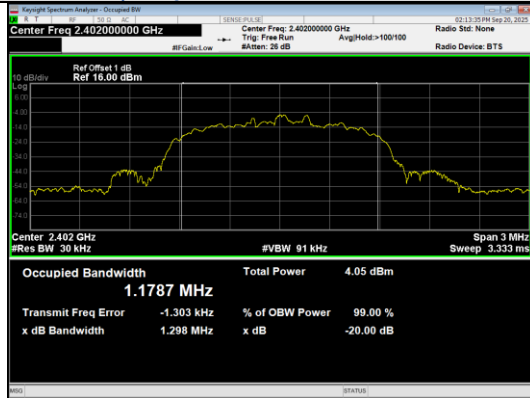
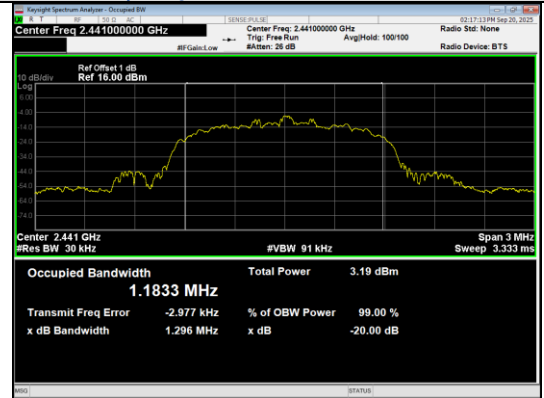


Peak Output Power
8DPSK_Channel 78

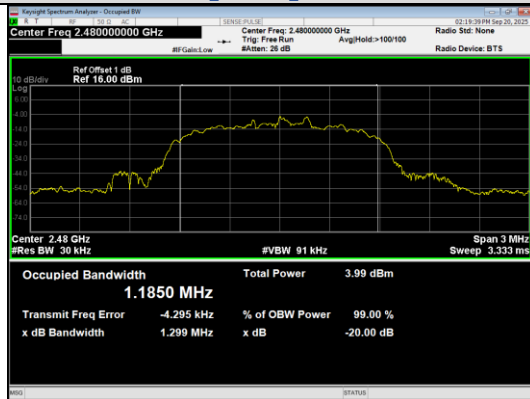
**20dB Bandwidth****Test Result**

Modulation	Channel	Center Frequency (MHz)	20 dB Bandwidth (MHz)
GFSK	0	2402 MHz	0.9600
	39	2441 MHz	0.9400
	78	2480 MHz	0.9500
$\pi/4$ DQPSK	0	2402 MHz	1.280
	39	2441 MHz	1.280
	78	2480 MHz	1.280
8DPSK	0	2402 MHz	1.300
	39	2441 MHz	1.300
	78	2480 MHz	1.300

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

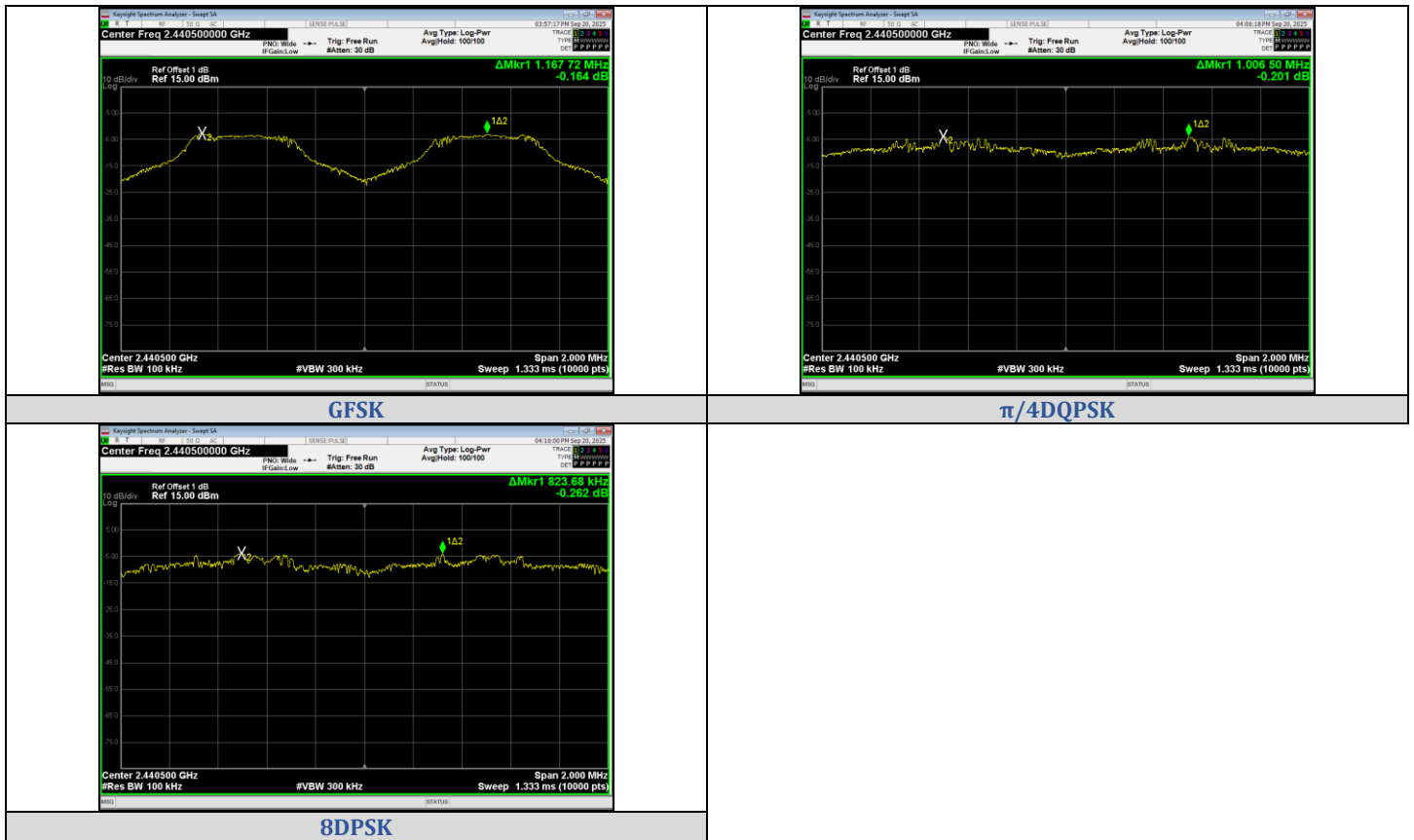


Carrier Frequencies Separation

Test Result

Modulation	Packet	Left Center frequency (MHz)	Right Center frequency (MHz)	Hopping Frequency Separation (MHz)	Limit (MHz)	Result
GFSK	DH5	2439.8334	2441.0012	1.1677	0.640	PASS
$\pi/4$ DQPSK	2-DH5	2439.9985	2441.005	1.0065	0.853	PASS
8DPSK	3-DH5	2439.9961	2440.8197	0.8237	0.867	PASS

Test Graphs



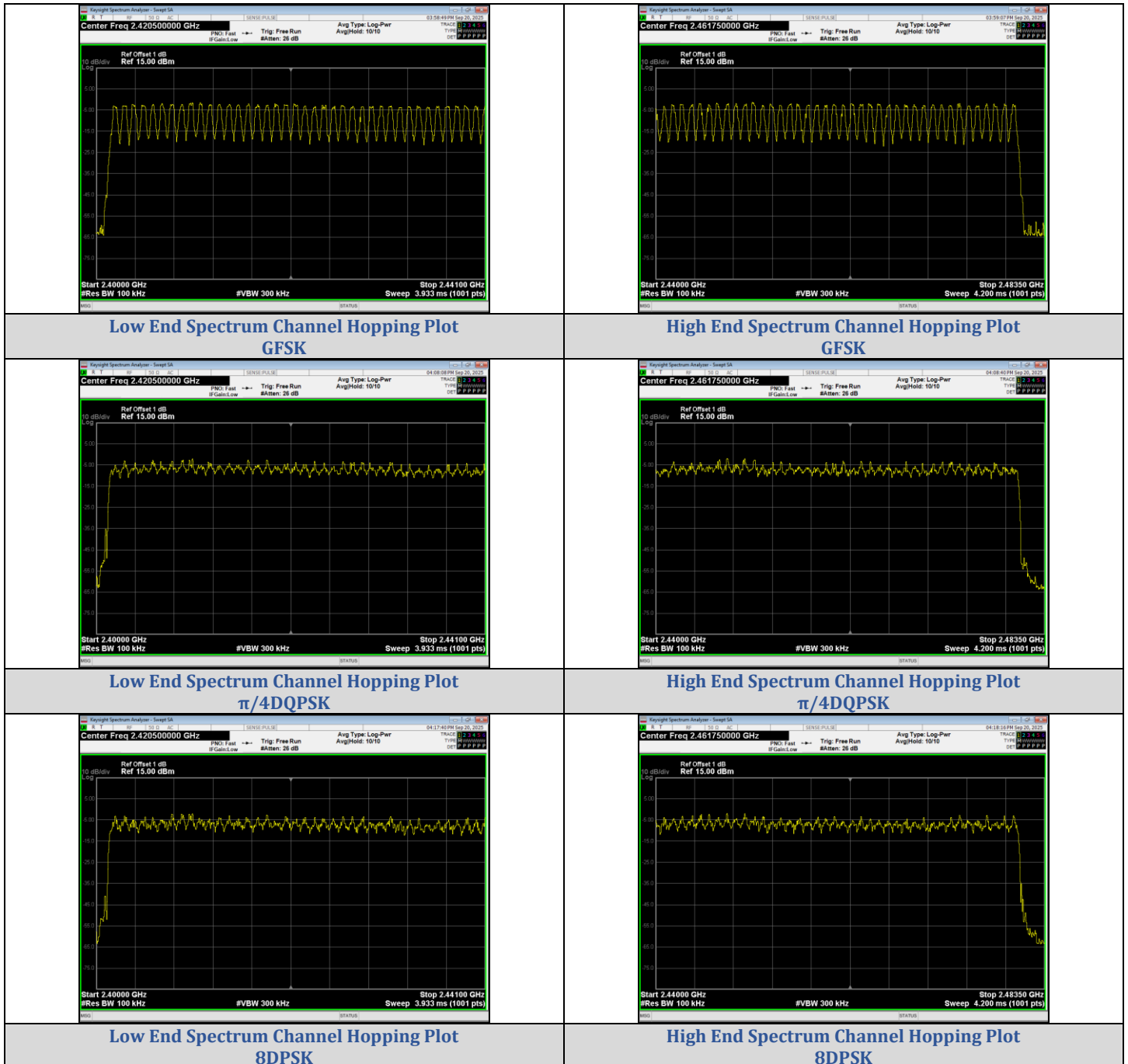


Number Of Hopping Channel

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



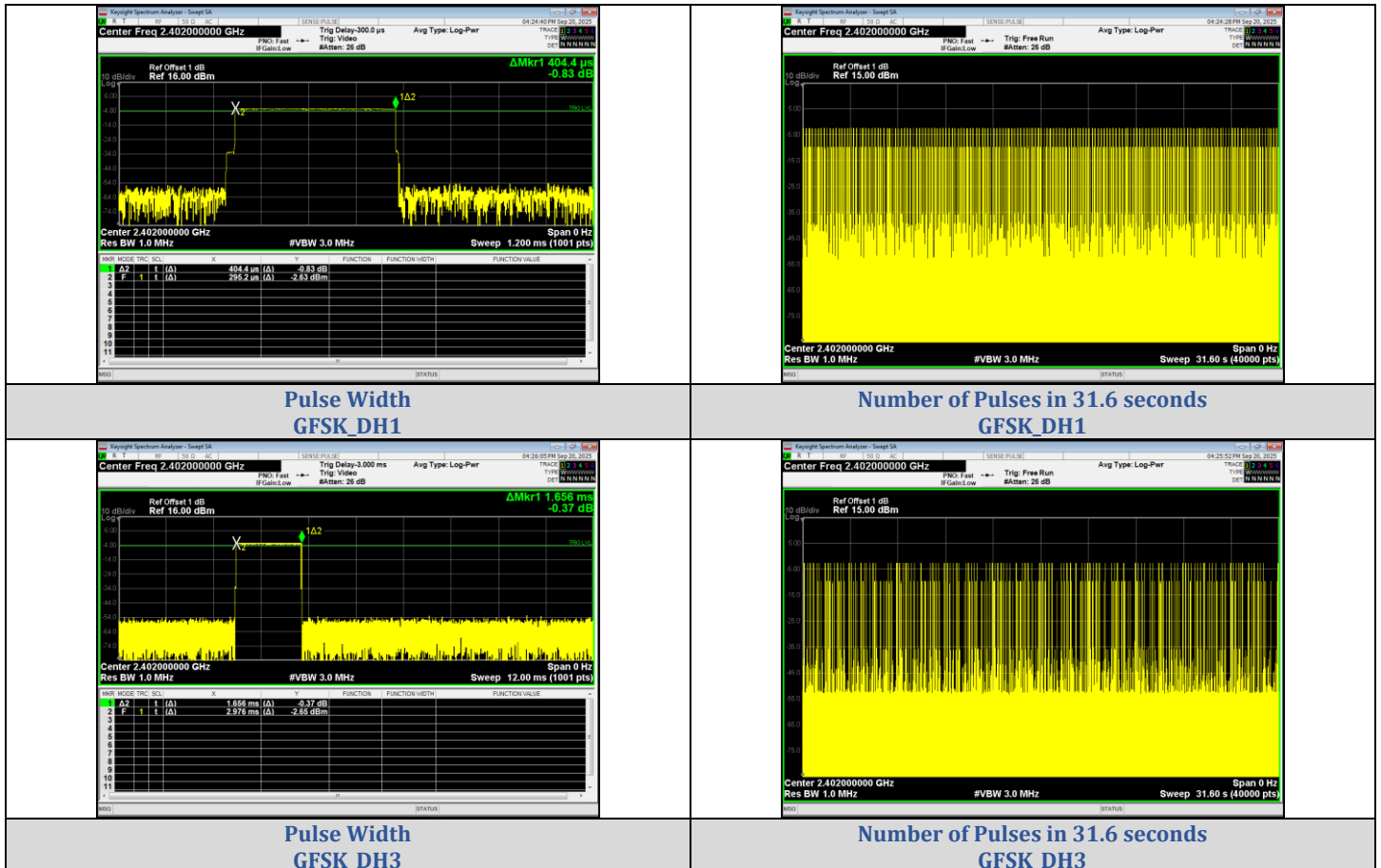


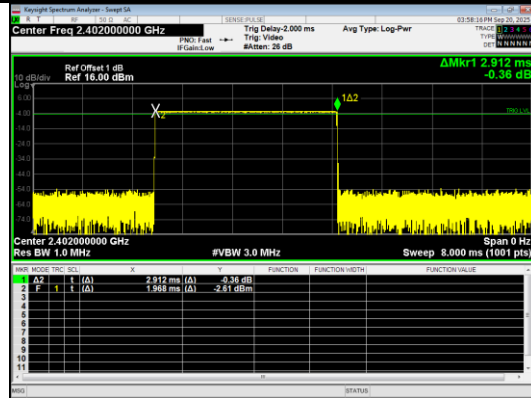
Dwell Time

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	316	127.79	< 400	PASS
	DH3		1.656	164	271.58		PASS
	DH5		2.912	100	291.2		PASS
$\pi/4$ DQPSK	2-DH1		0.3972	317	125.91		PASS
	2-DH3		1.656	150	248.4		PASS
	2-DH5		2.896	105	304.08		PASS
8DPSK	3-DH1		0.3960	317	125.53		PASS
	3-DH3		1.632	159	259.49		PASS
	3-DH5		2.896	107	309.87		PASS

Test Graphs

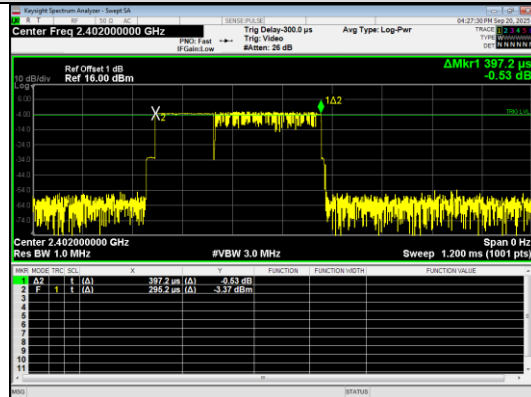




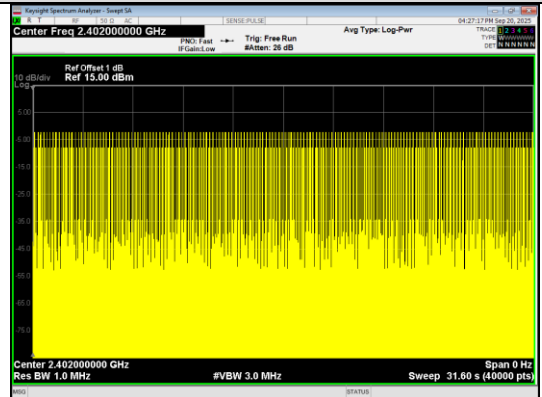
Pulse Width
GFSK_DH5



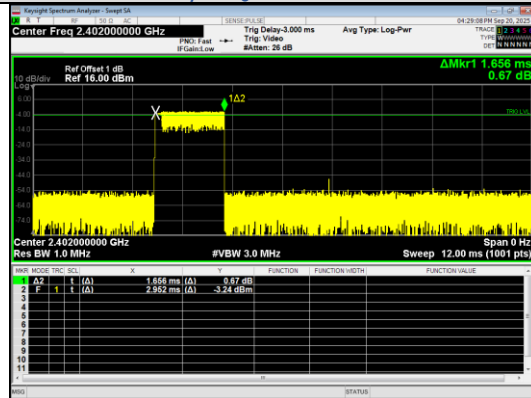
Number of Pulses in 31.6 seconds
GFSK_DH5



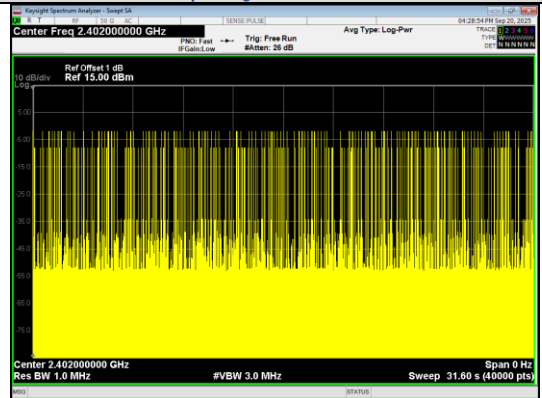
Pulse Width
 $\pi/4$ DQPSK_2-DH1



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

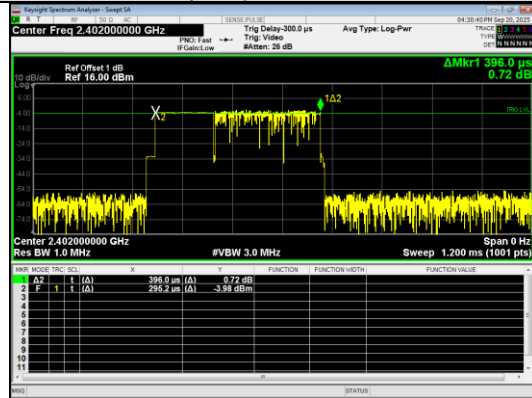


Pulse Width

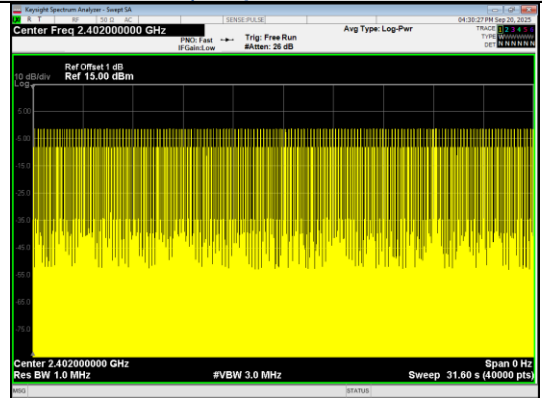


Number of Pulses in 31.6 seconds

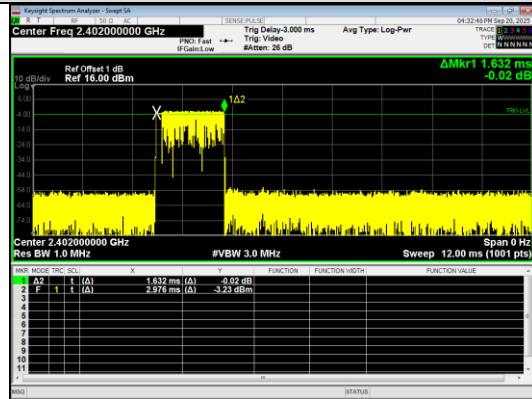
$\pi/4$ DQPSK 2-DH5



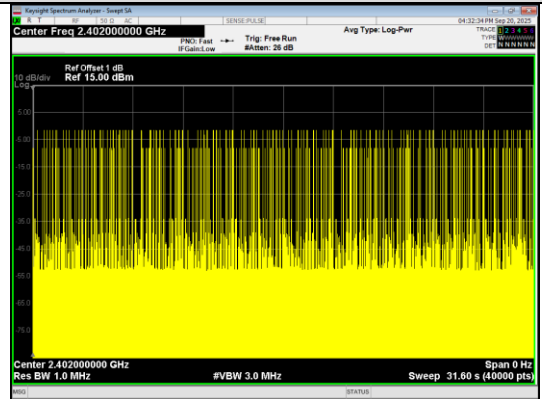
$\pi/4$ DQPSK 2-DH5



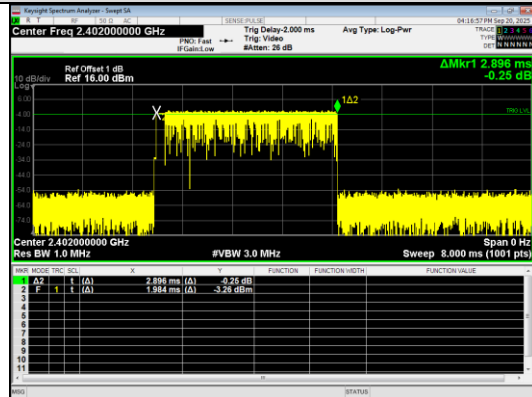
Pulse Width 8DPSK 3-DH1



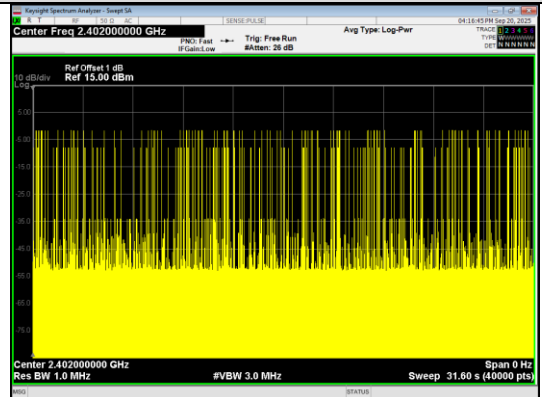
Number of Pulses in 31.6 seconds 8DPSK 3-DH1



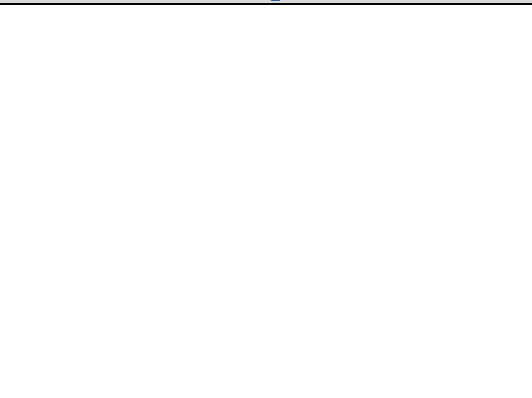
Pulse Width 8DPSK 3-DH3



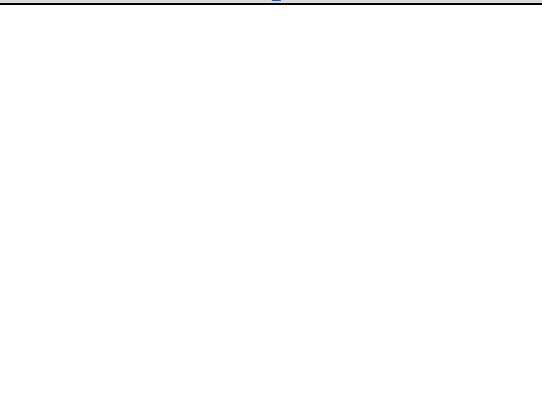
Number of Pulses in 31.6 seconds 8DPSK 3-DH3



Pulse Width 8DPSK 3-DH5



Number of Pulses in 31.6 seconds 8DPSK 3-DH5

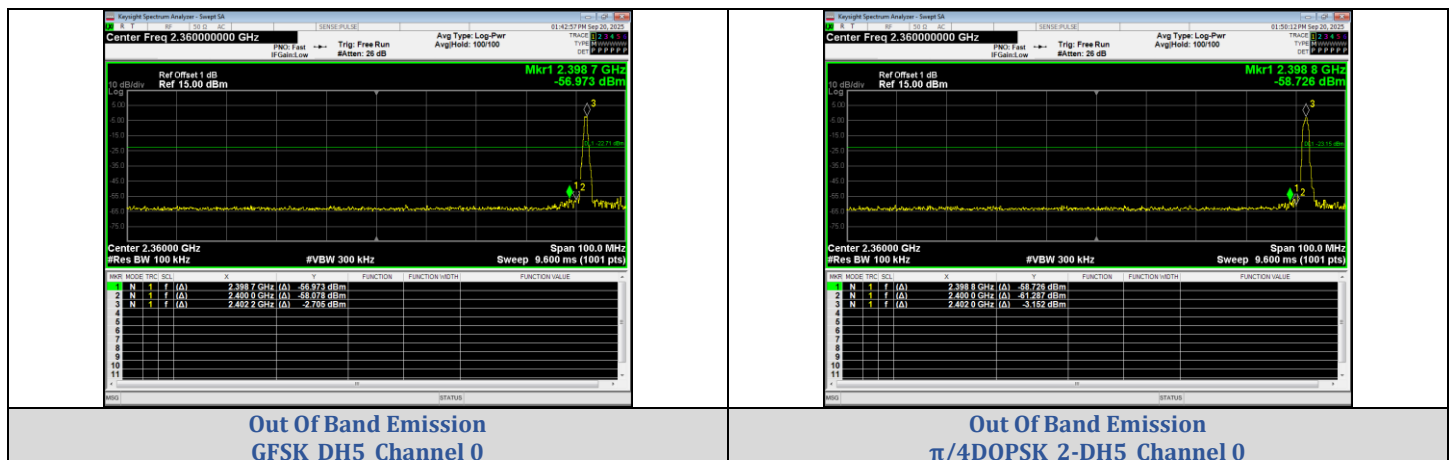


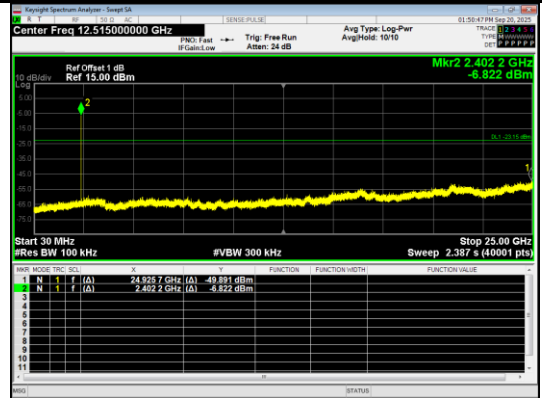
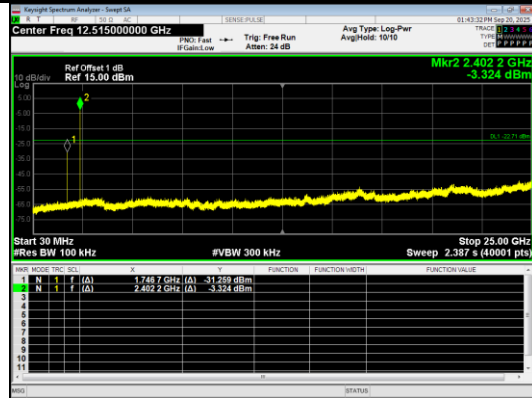
**Conducted Out Of Band Emission****Test Result****Non-Hopping**

Modulation	Packet	Channel	OOB Emission Frequency (MHz)	OOB Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result
GFSK	DH5	0	1746.70	-31.259	-22.71	-8.549	PASS
			2398.70	-56.973	-22.71	-34.263	PASS
			2400.00	-58.080	-22.71	-35.370	PASS
		39	1746.06	-34.818	-22.84	-11.978	PASS
		78	2483.50	-58.290	-22.22	-36.070	PASS
			24407.6	-49.933	-22.22	-27.713	PASS
$\pi/4$ DQPSK	2-DH5	0	2398.80	-58.725	-23.15	-35.575	PASS
			2400.00	-61.290	-23.15	-38.140	PASS
			24925.7	-49.892	-23.15	-26.742	PASS
		39	24371.4	-50.288	-24.17	-26.118	PASS
		78	2483.50	-61.440	-23.48	-37.960	PASS
			24894.5	-49.822	-23.48	-26.342	PASS
8DPSK	3-DH5	0	2400.00	-56.960	-23.58	-33.380	PASS
			24976.3	-49.361	-23.58	-25.782	PASS
		39	24964.4	-48.878	-24.08	-24.798	PASS
		78	2483.50	-59.480	-23.12	-36.360	PASS
			24991.3	-49.236	-23.12	-26.116	PASS

Hopping

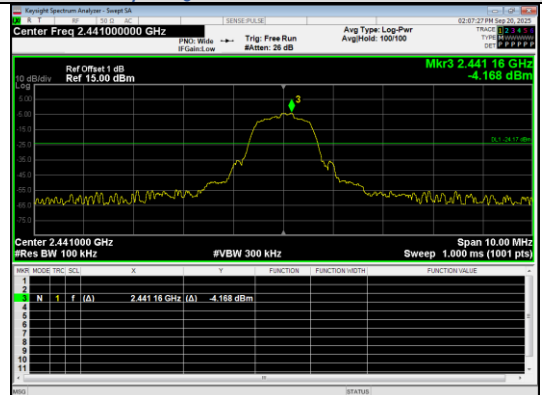
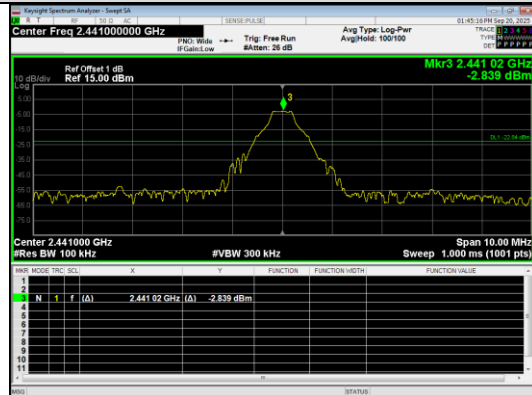
Modulation	Packet	Channel	OOB Emission Frequency (MHz)	OOB Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result
GFSK	DH5	Hopping	2400.00	-59.200	-21.56	-37.640	PASS
			2483.50	-59.750	-22.01	-37.740	PASS
$\pi/4$ DQPSK	2-DH5		2400.00	-62.740	-22.25	-40.490	PASS
			2483.50	-56.200	-22.81	-33.390	PASS
8DPSK	3-DH5		2400.00	-53.670	-22.3	-31.370	PASS
			2483.50	-59.400	-23.0	-36.400	PASS

Test Graphs



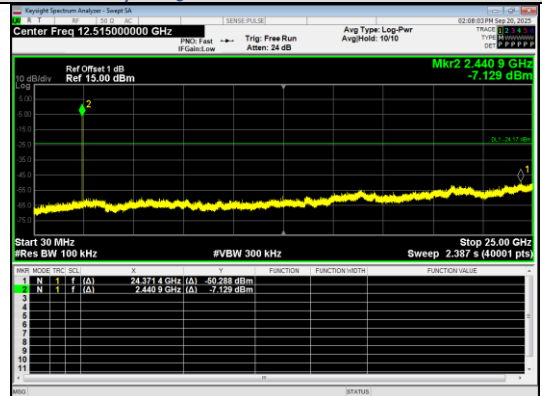
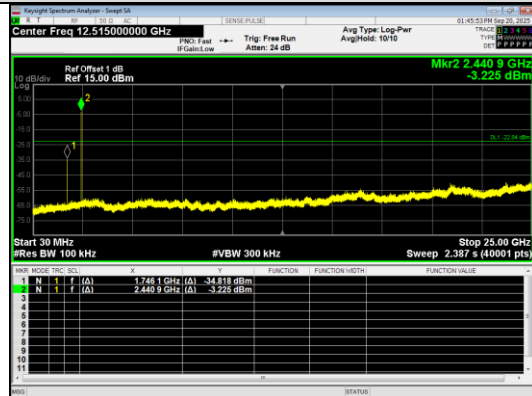
30.0 MHz - 25000.0 MHz
GFSK_DH5_Channel 0

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



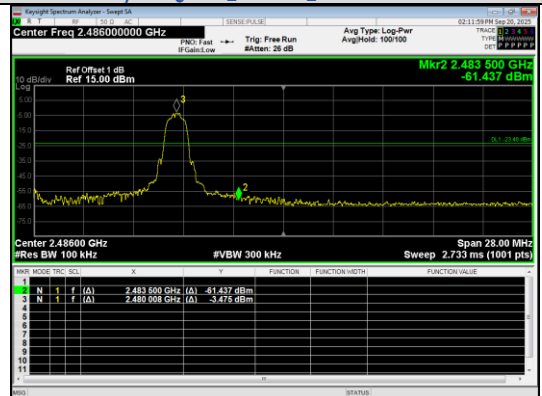
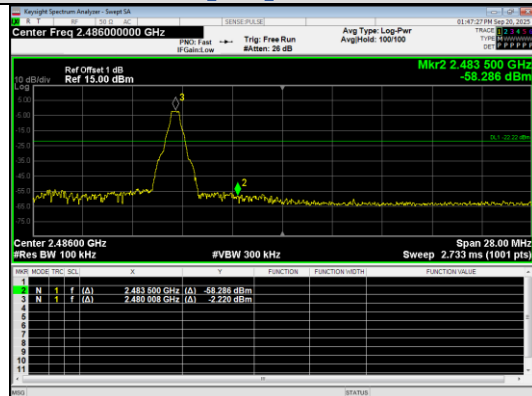
Out Of Band Emission
GFSK_DH5_Channel 39

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



30.0 MHz - 25000.0 MHz
GFSK_DH5_Channel 39

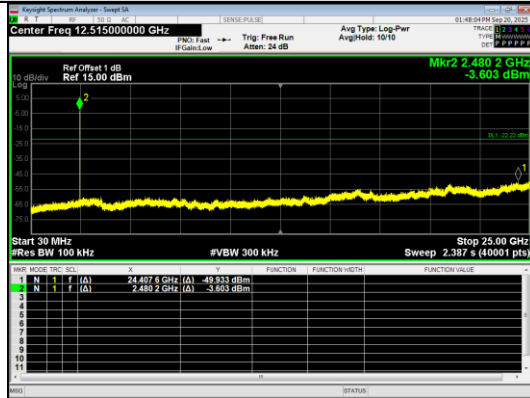
30.0 MHz - 25000.0 MHz
 $\pi/4$ DQPSK_2-DH5_Channel 39



Out Of Band Emission

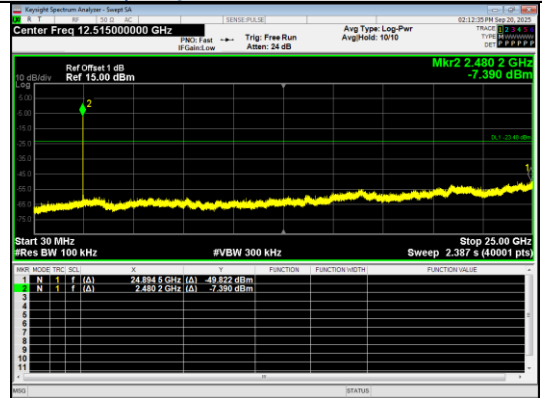
Out Of Band Emission

GFSK_DH5_Channel 78

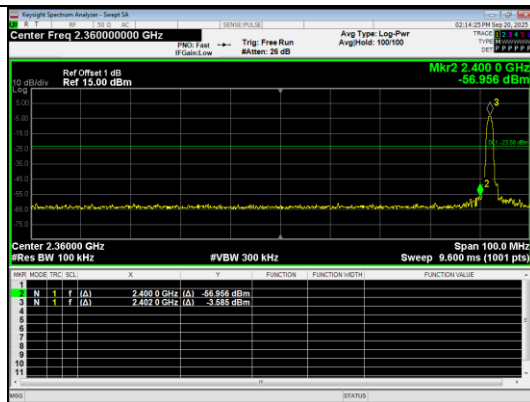


30.0 MHz - 25000.0 MHz
GFSK_DH5_Channel 78

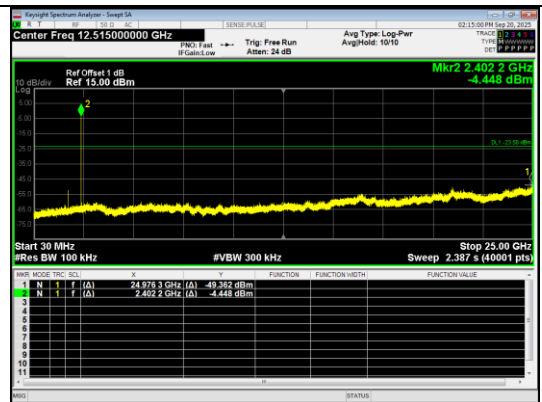
$\pi/4$ DQPSK 2-DH5_Channel 78



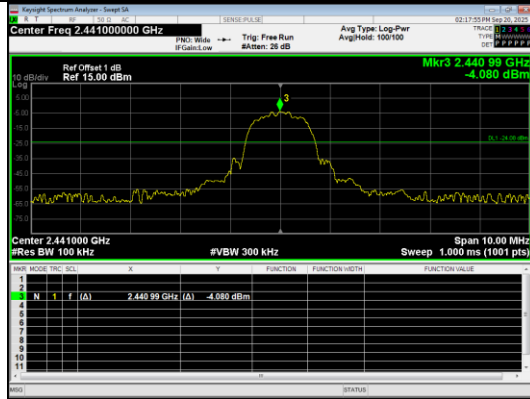
30.0 MHz - 25000.0 MHz
 $\pi/4$ DQPSK 2-DH5_Channel 78



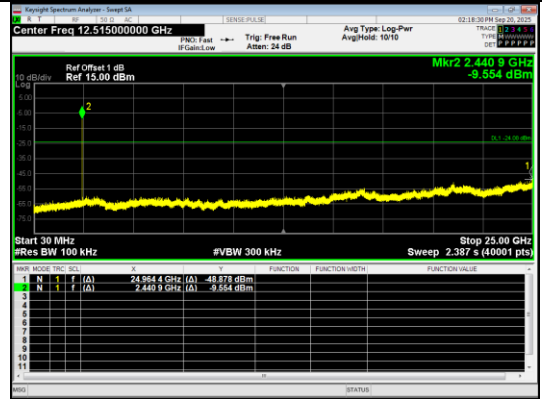
Out Of Band Emission
8DPSK_3-DH5_Channel 0



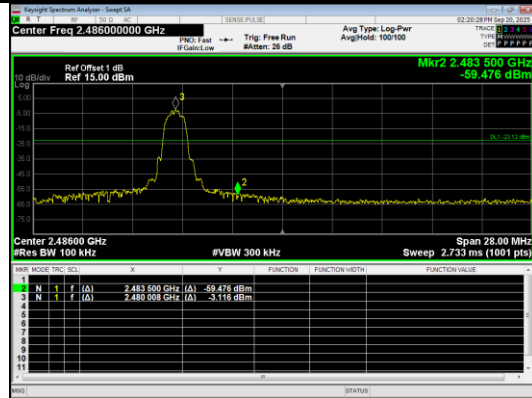
30.0 MHz - 25000.0 MHz
8DPSK_3-DH5_Channel 0



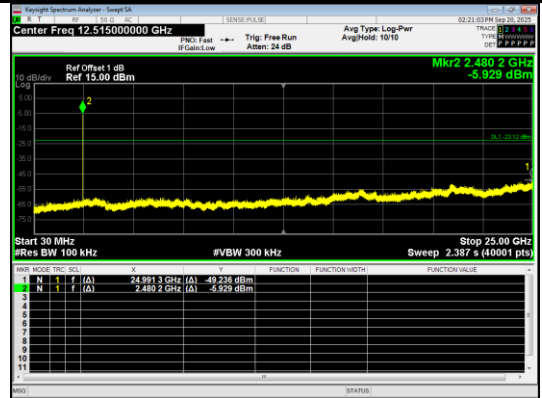
Out Of Band Emission
8DPSK_3-DH5_Channel 39



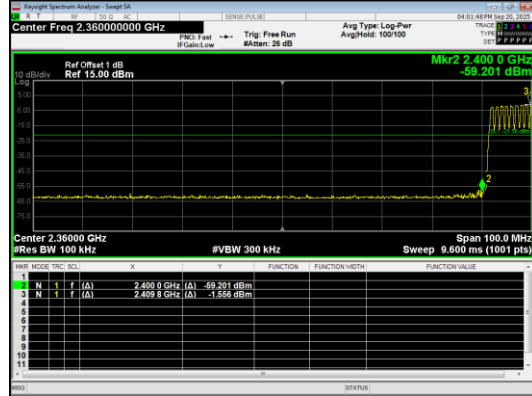
30.0 MHz - 25000.0 MHz
8DPSK_3-DH5_Channel 39



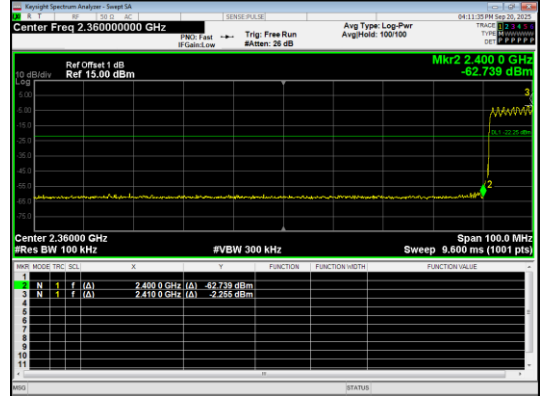
Out Of Band Emission
8DPSK_3-DH5_Channel 78



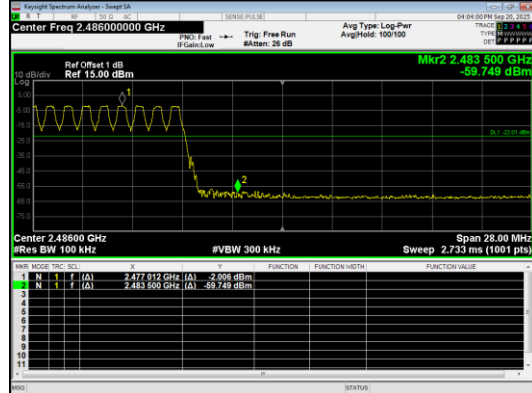
30.0 MHz - 25000.0 MHz
8DPSK_3-DH5_Channel 78



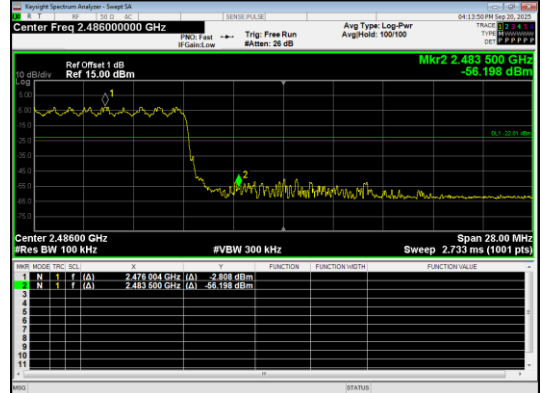
Out Of Band Emission (Left)
GFSK_DH5_Channel Hopping



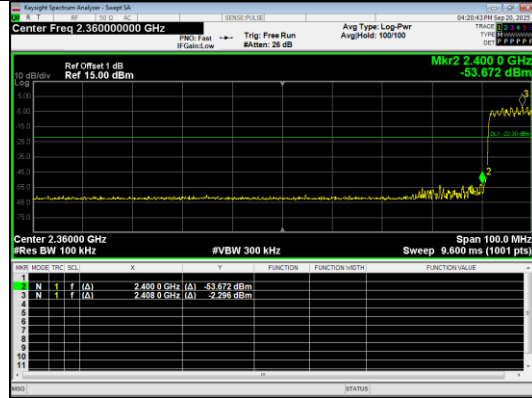
Out Of Band Emission (Left)
 $\pi/4$ DQPSK_2-DH5_Channel Hopping



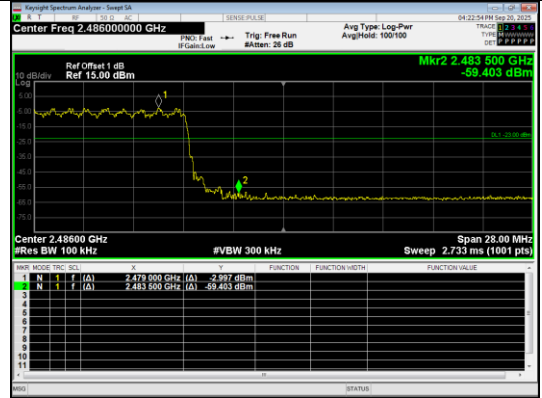
Out Of Band Emission (Right)
GFSK_DH5_Channel Hopping



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