

Duty Cycle

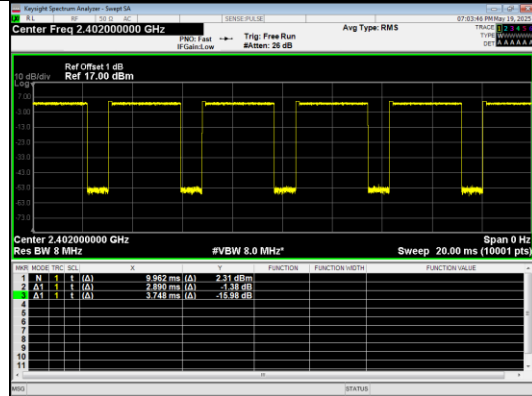
Test Result

Modulation	Packets	Channel	On Time (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle (linear)	Duty Cycle Factor (dB)	1/T
GFSK	DH5	0	2.886	3.748	77.00	0.7700	1.1351	0.3465
		39	2.886	3.748	77.00	0.7700	1.1351	0.3465
		78	2.886	3.748	77.00	0.7700	1.1351	0.3465
$\pi/4$ DQPSK	2-DH5	0	2.890	3.748	77.11	0.7711	1.1289	0.3460
		39	2.890	3.748	77.11	0.7711	1.1289	0.3460
		78	2.890	3.748	77.11	0.7711	1.1289	0.3460
8DPSK	3-DH5	0	2.892	3.748	77.16	0.7716	1.1261	0.3458
		39	2.892	3.748	77.16	0.7716	1.1261	0.3458
		78	2.892	3.748	77.16	0.7716	1.1261	0.3458

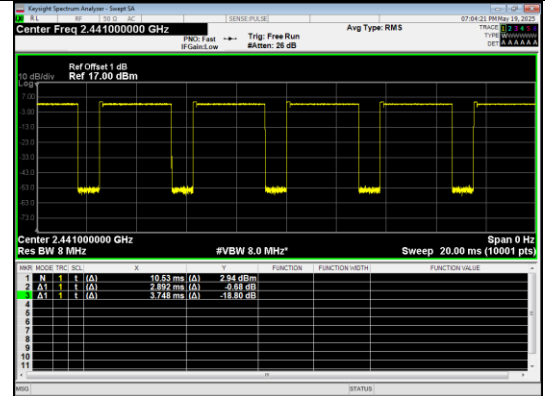
Test Graphs



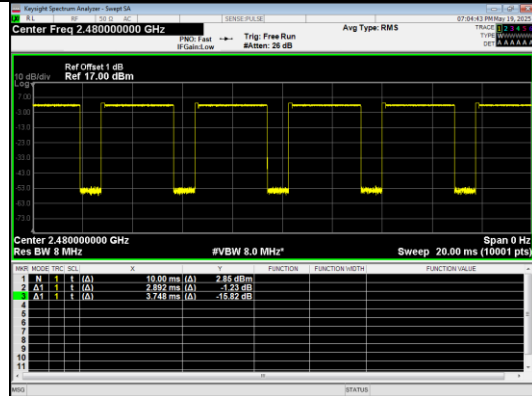
$\pi/4$ DQPSK(2-DH5)_Channel 39



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



8DPSK(3-DH5)_Channel 0



8DPSK(3-DH5)_Channel 39

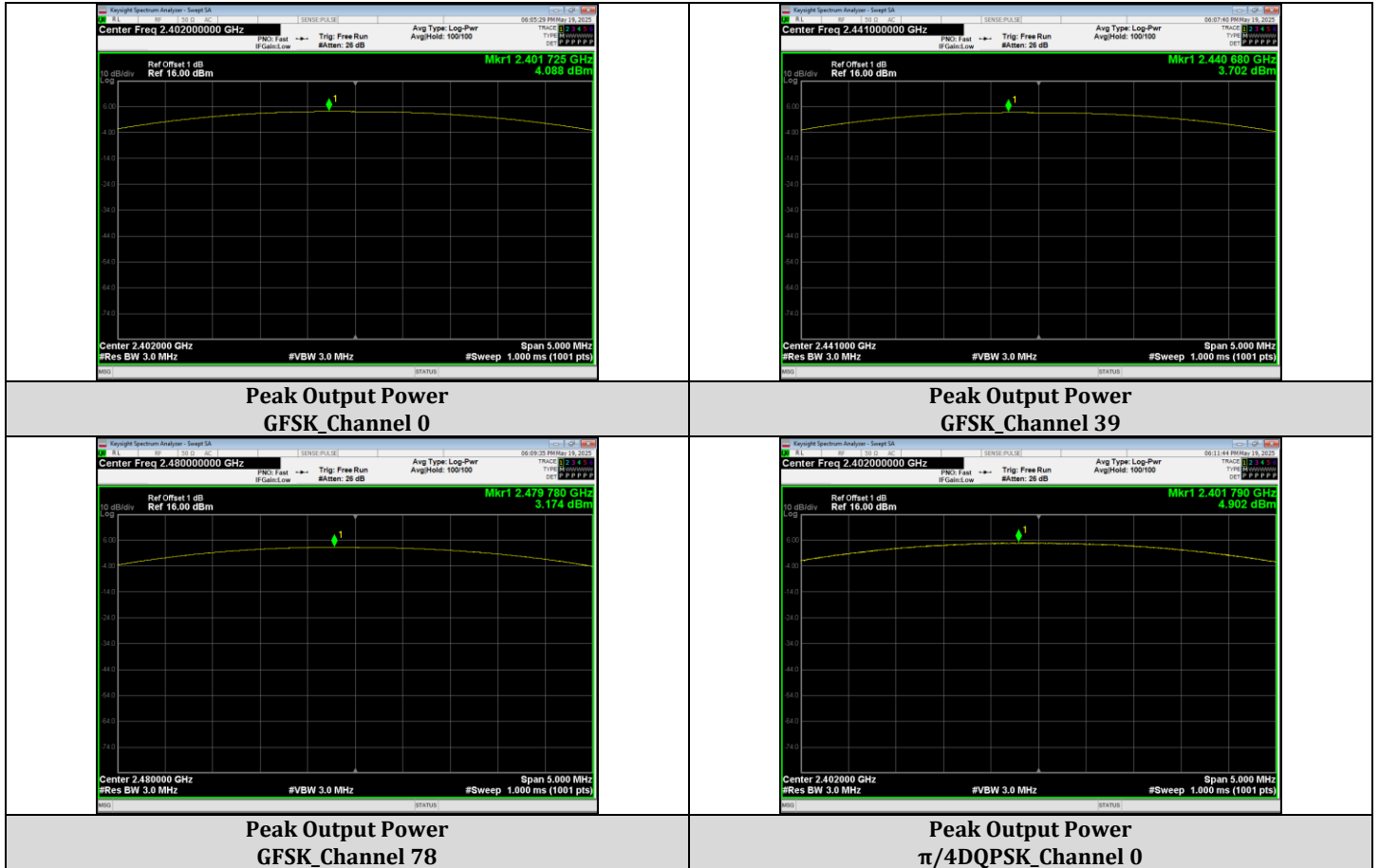
8DPSK(3-DH5)_Channel 78

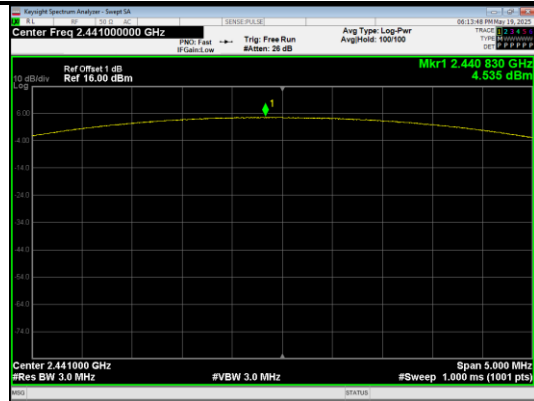
Conducted Output Power

Test Result

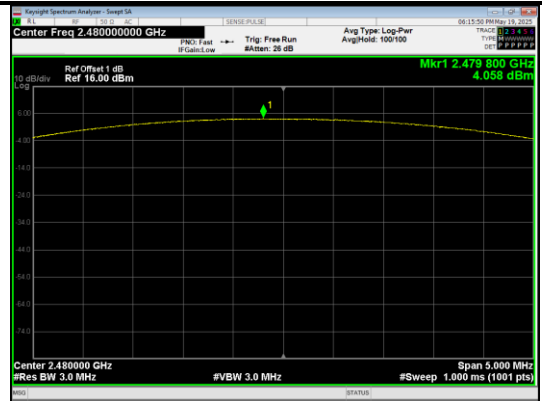
Modulation	Packet Type	Channel	Peak Output Power (dBm)	Peak Output Power (mW)	Limit (dBm)	Result
GFSK	DH5	0	4.09	2.56	≤30	PASS
		39	3.70	2.35		PASS
		78	3.17	2.08		PASS
$\pi/4$ DQPSK	2-DH5	0	4.90	3.09	≤20.97	PASS
		39	4.54	2.84		PASS
		78	4.06	2.55		PASS
8DPSK	3-DH5	0	5.26	3.36		PASS
		39	4.89	3.08		PASS
		78	4.42	2.77		PASS

Test Graphs

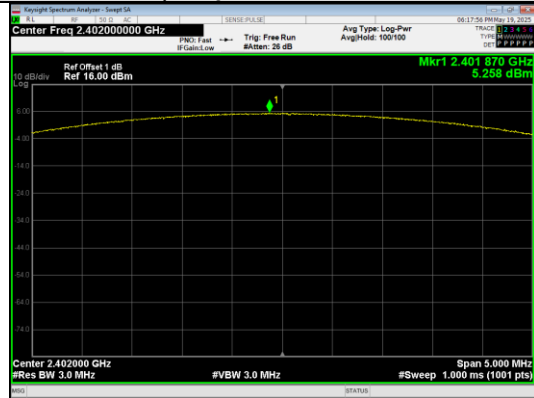




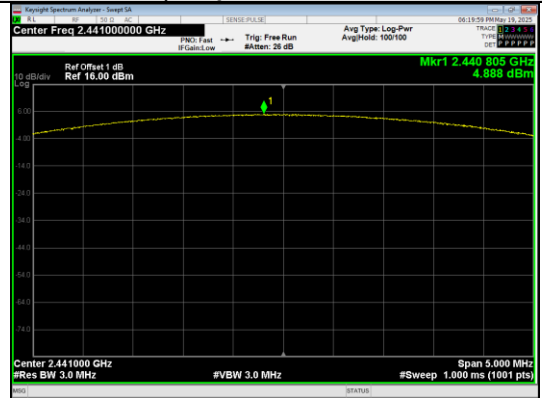
Peak Output Power
 $\pi/4$ DQPSK_Channel 39



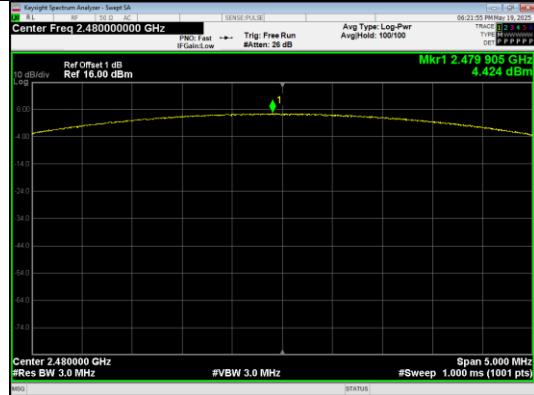
Peak Output Power
 $\pi/4$ DQPSK_Channel 78



Peak Output Power
8DPSK_Channel 0



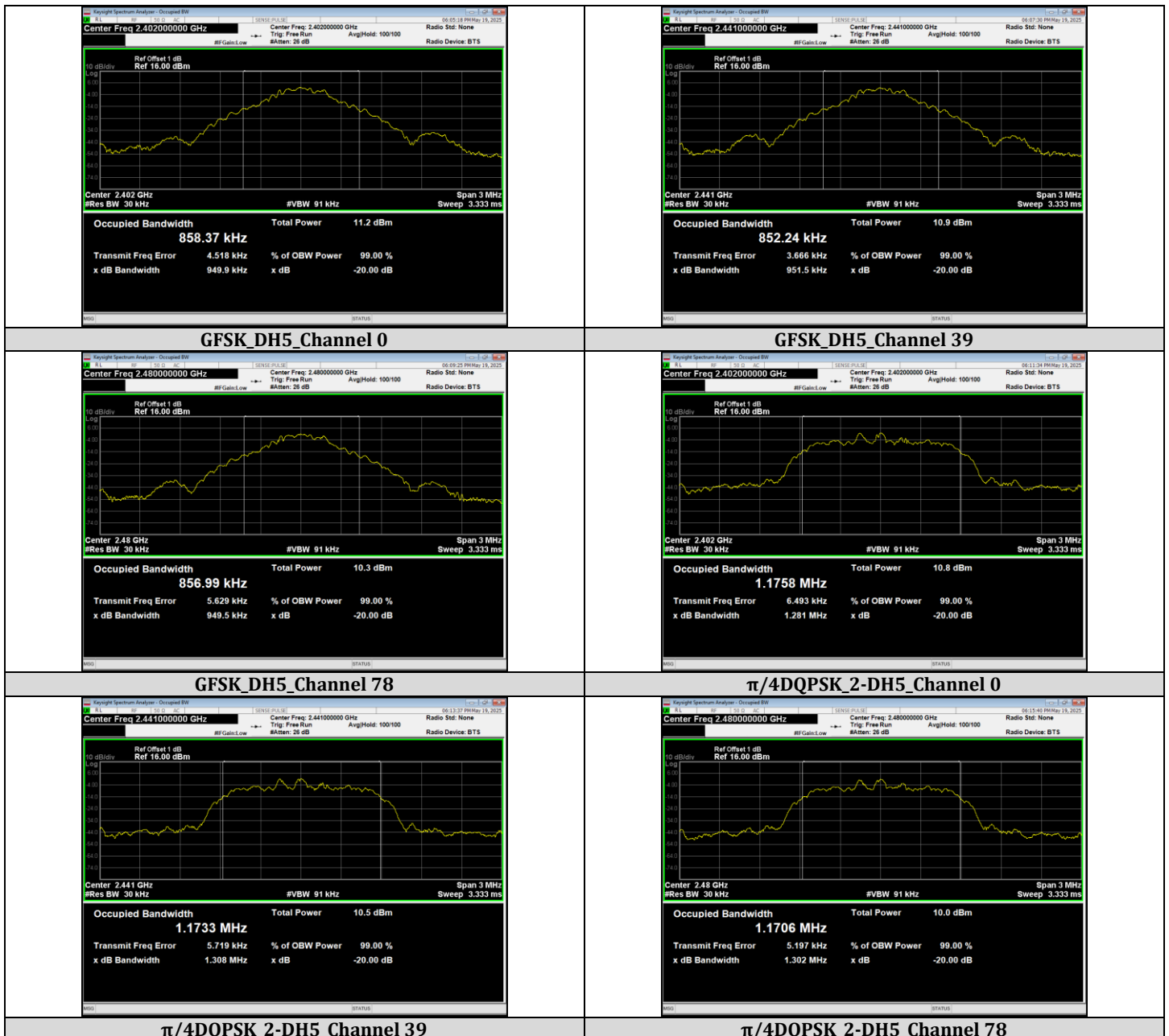
Peak Output Power
8DPSK_Channel 39

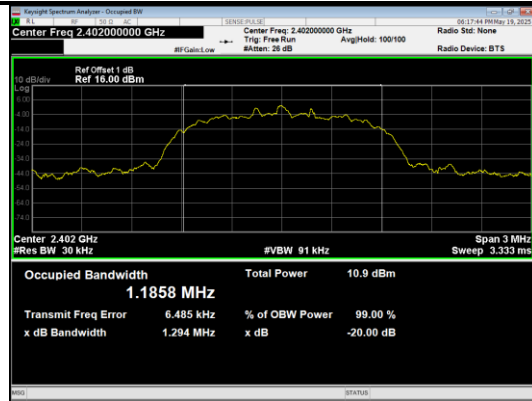


Peak Output Power
8DPSK_Channel 78

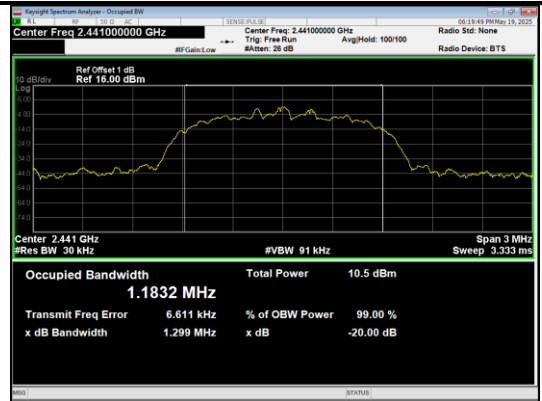
**20dB Bandwidth****Test Result**

Modulation	Channel	Center Frequency (MHz)	20 dB Bandwidth (MHz)
GFSK	0	2402 MHz	0.9499
	39	2441 MHz	0.9515
	78	2480 MHz	0.9495
$\pi/4$ DQPSK	0	2402 MHz	1.281
	39	2441 MHz	1.308
	78	2480 MHz	1.302
8DPSK	0	2402 MHz	1.294
	39	2441 MHz	1.299
	78	2480 MHz	1.293

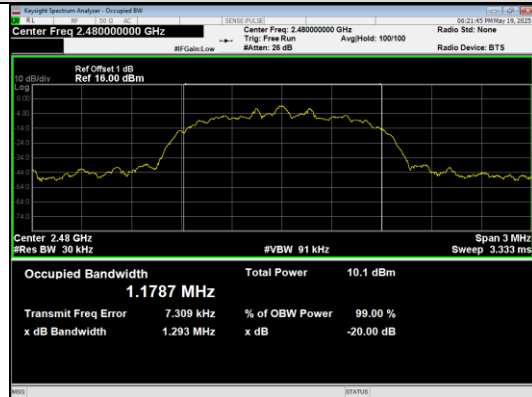
Test Graphs



8DPSK_3-DH5_Channel 0



8DPSK_3-DH5_Channel 39



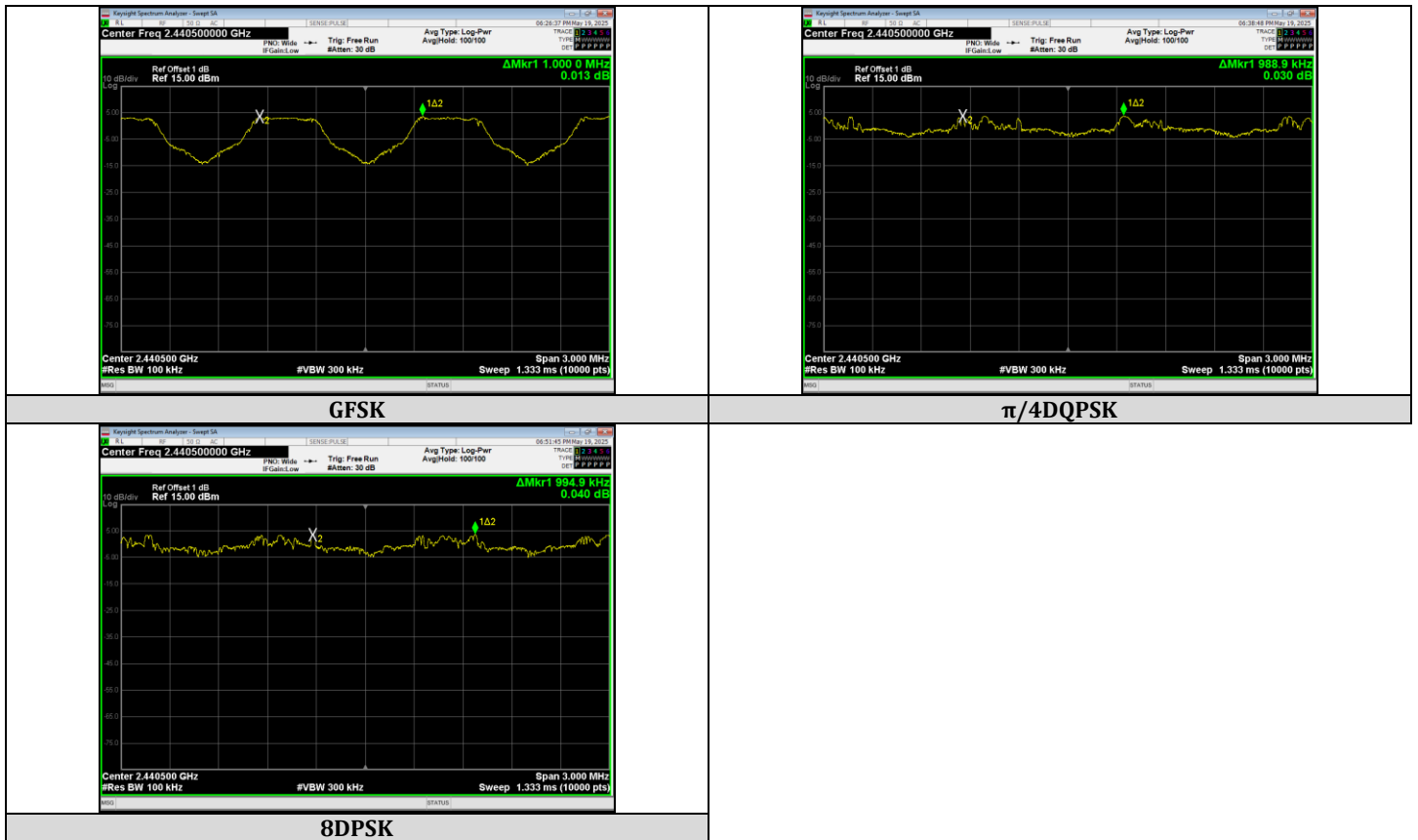
8DPSK_3-DH5_Channel 78

Carrier Frequencies Separation

Test Result

Modulation	Packet	Left Center frequency (MHz)	Right Center frequency (MHz)	Hopping Frequency Separation (MHz)	Limit (MHz)	Result
GFSK	DH5	2439.8512	2440.8512	1.0000	0.634	PASS
$\pi/4$ DQPSK	2-DH5	2439.853	2440.8419	0.9889	0.872	PASS
8DPSK	3-DH5	2440.1779	2441.1728	0.9949	0.866	PASS

Test Graphs

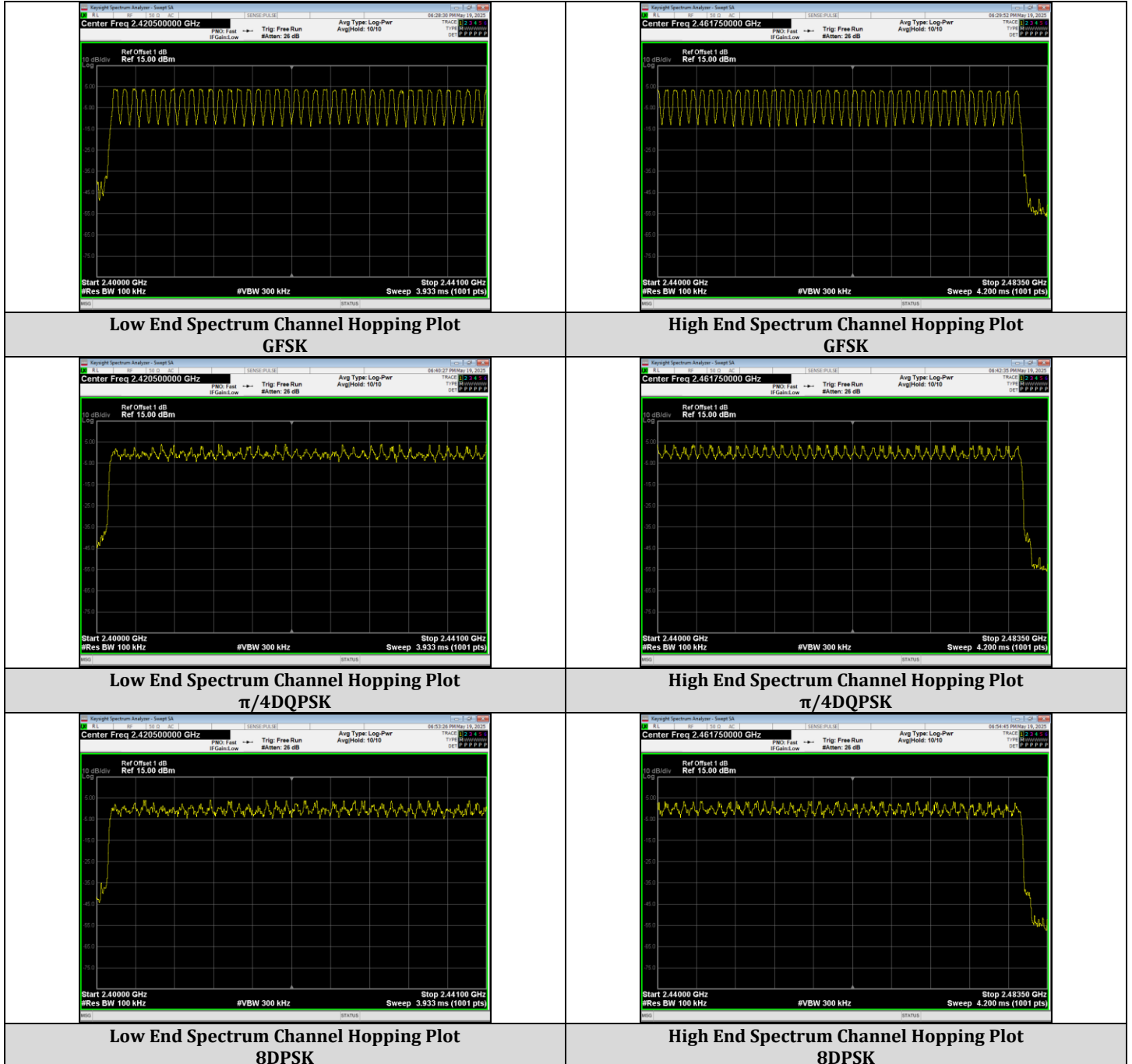


Number Of Hopping Channel

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

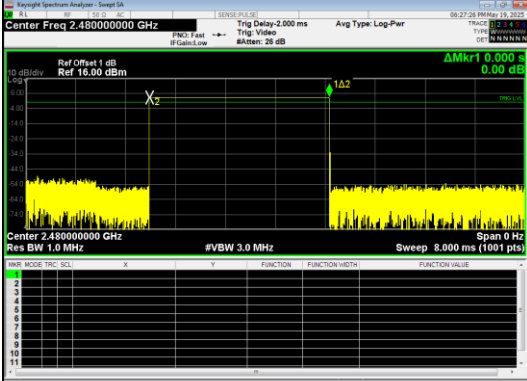
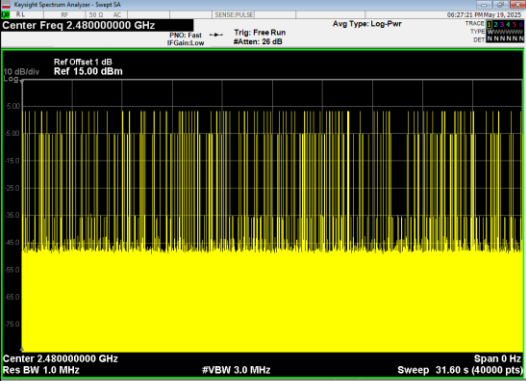
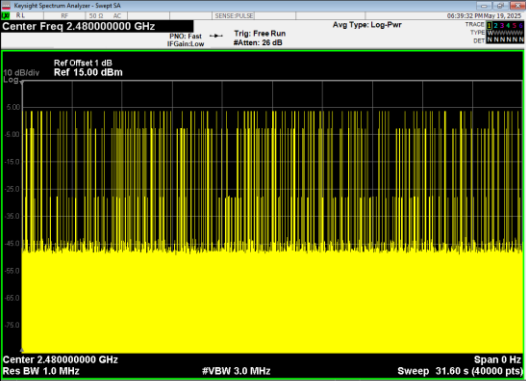
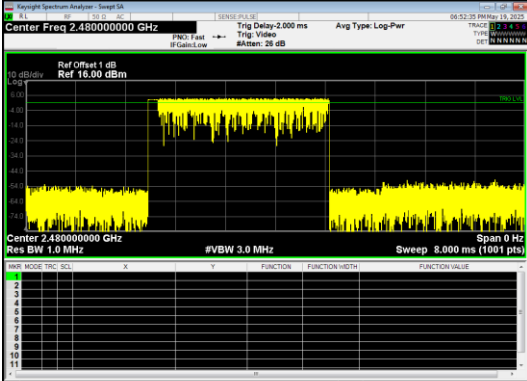
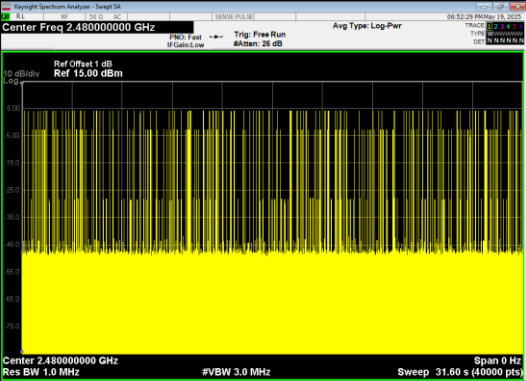


Dwell Time

Test Result

Modulation	Packet	Channel	Pulse Width (ms)	Number of Pulses in 31.6 seconds	Dwell Time (ms)	Limit (ms)	Result
GFSK	DH5	CH78 (2480MHz)	2.880	105	302.4	< 400	PASS
$\pi/4$ DQPSK	2-DH5		2.896	109	315.66		PASS
8DPSK	3-DH5		2.896	115	333.04		PASS

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

Conducted Out Of Band Emission

Test Result

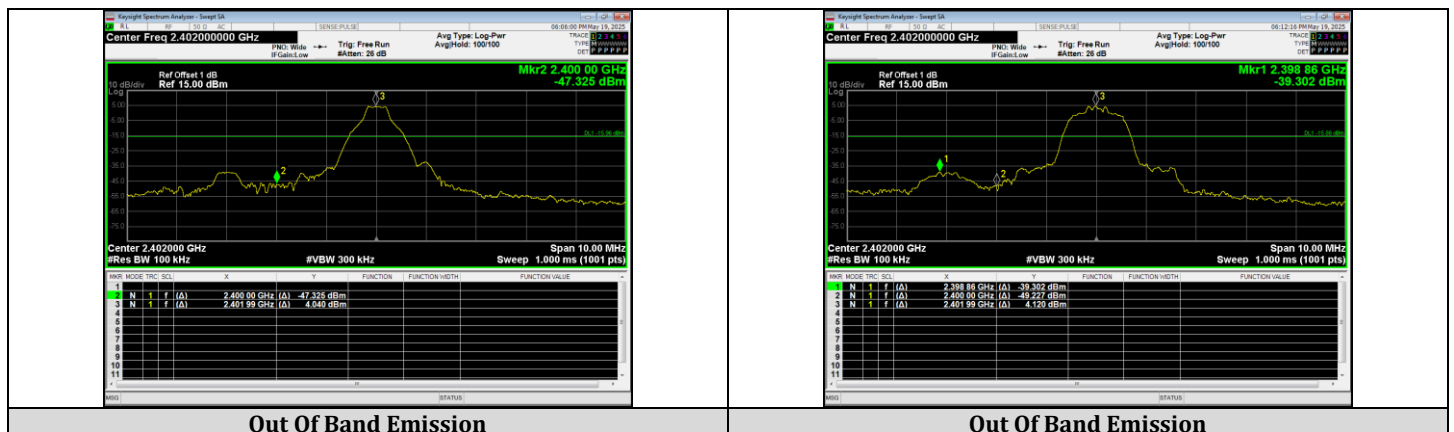
Non-Hopping

Modulation	Packet	Channel	OOB Emission Frequency (MHz)	OOB Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result
GFSK	DH5	0	2399.00	-39.246	-15.96	-23.286	PASS
			2400.00	-47.325	-15.96	-31.365	PASS
			9601.90	-32.955	-15.96	-16.995	PASS
		39	9757.93	-31.770	-16.57	-15.200	PASS
		78	2483.50	-50.392	-16.81	-33.582	PASS
			9914.00	-31.518	-16.81	-14.708	PASS
$\pi/4$ DQPSK	2-DH5	0	2398.86	-39.302	-15.88	-23.422	PASS
			2400.00	-49.227	-15.88	-33.347	PASS
			9601.90	-32.852	-15.88	-16.972	PASS
		39	9757.93	-31.639	-16.32	-15.319	PASS
		78	2483.50	-51.696	-16.84	-34.856	PASS
			9914.00	-31.405	-16.84	-14.565	PASS
8DPSK	3-DH5	0	2399.00	-39.110	-15.87	-23.240	PASS
			2400.00	-44.274	-15.87	-28.404	PASS
			9601.90	-32.789	-15.87	-16.919	PASS
		39	9757.93	-31.636	-16.46	-15.176	PASS
		78	2483.50	-52.572	-16.92	-35.652	PASS
			9914.00	-31.419	-16.92	-14.499	PASS

Hopping

Modulation	Packet	Channel	OOB Emission Frequency (MHz)	OOB Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result
GFSK	DH5	Hopping	2400.00	-38.941	-15.95	-22.991	PASS
			2483.50	-51.684	-17.07	-34.614	PASS
$\pi/4$ DQPSK	2-DH5		2398.98	-39.362	-15.95	-23.412	PASS
			2400.00	-40.110	-15.95	-24.160	PASS
			2483.50	-52.814	-16.82	-35.994	PASS
8DPSK	3-DH5		2400.00	-40.138	-16.07	-24.068	PASS
			2483.50	-55.999	-16.99	-39.009	PASS

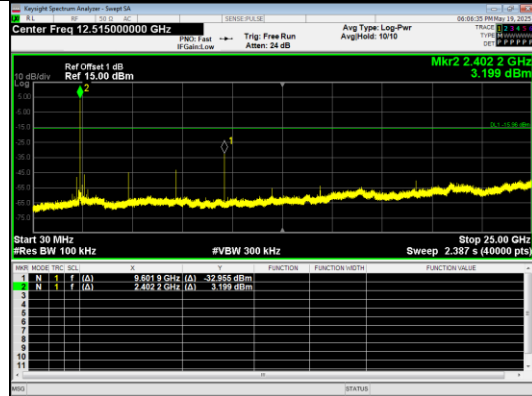
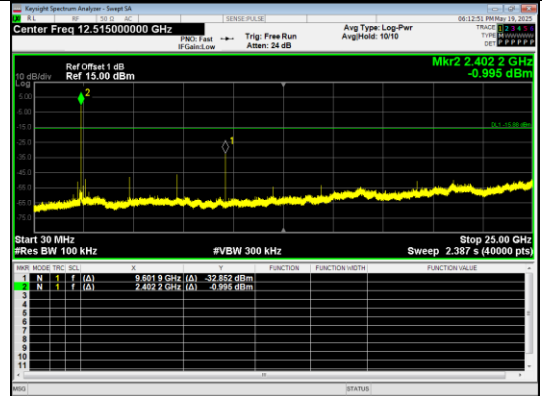
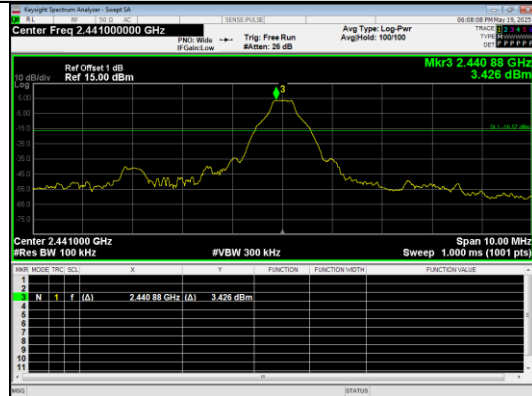
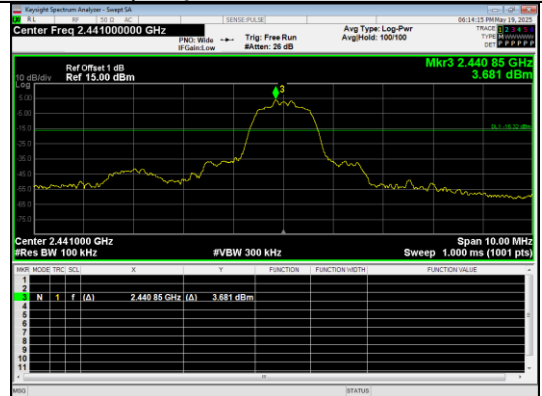
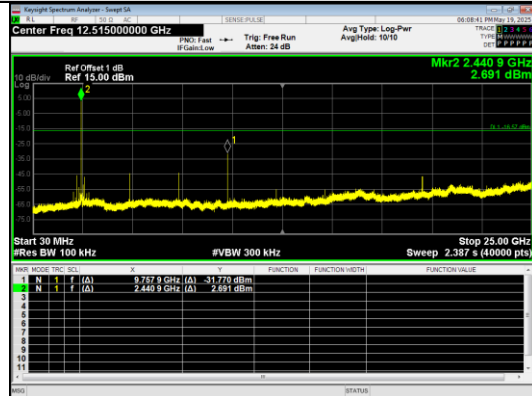
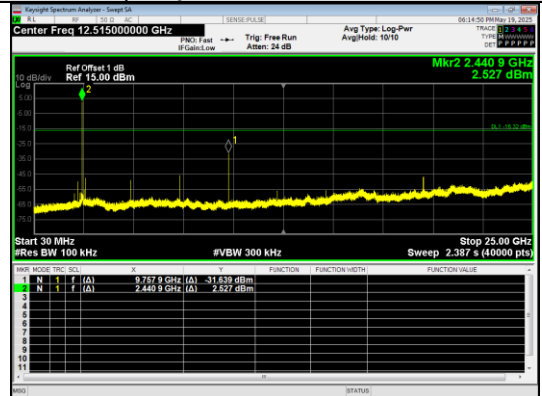
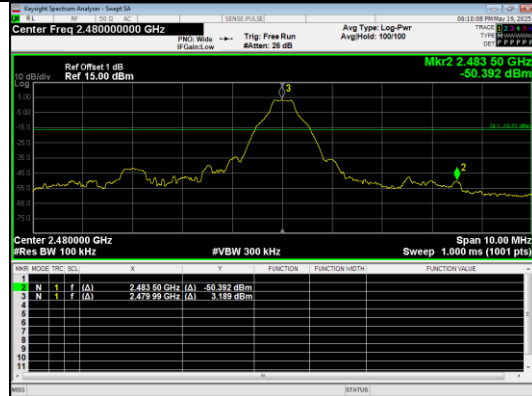
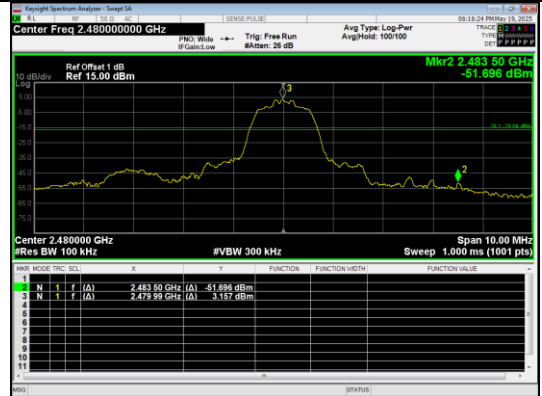
Test Graphs



Out Of Band Emission

Out Of Band Emission

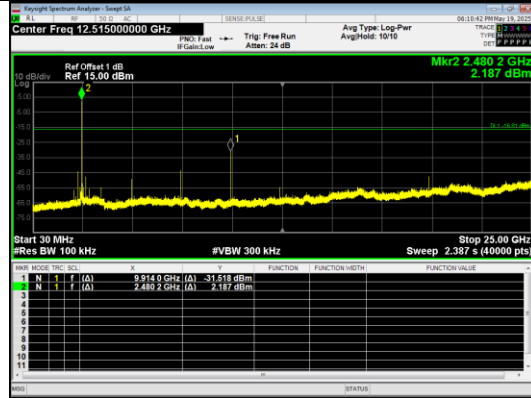
GFSK_DH5_Channel 0


 $\pi/4$ 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

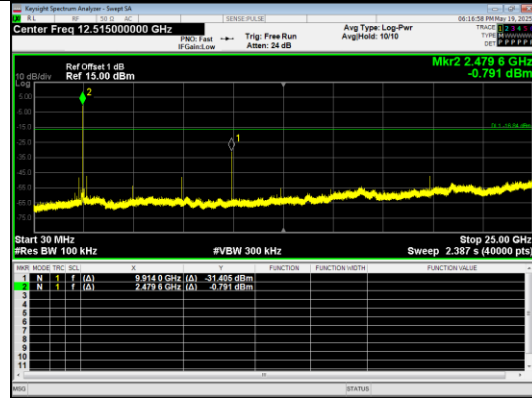
Out Of Band Emission

GFSK_DH5_Channel 78

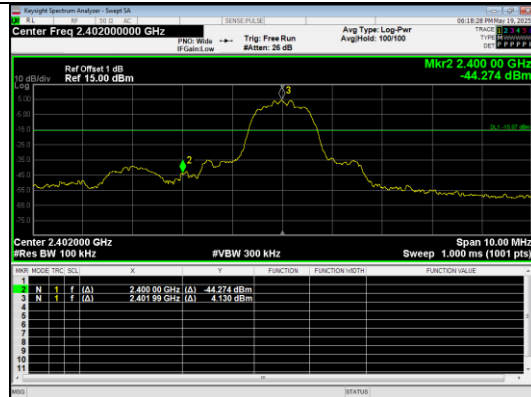


30.0 MHz - 25000.0 MHz
GFSK_DH5_Channel 78

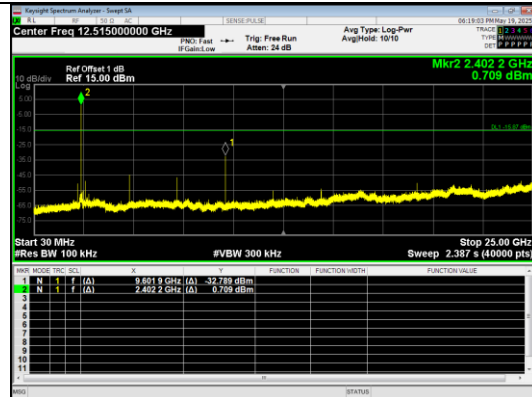
$\pi/4$ DQPSK 2-DH5_Channel 78



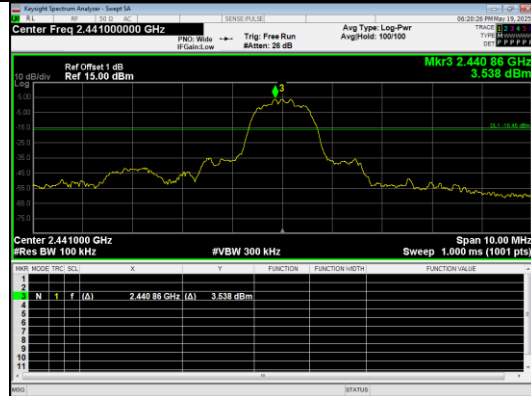
30.0 MHz - 25000.0 MHz
 $\pi/4$ DQPSK 2-DH5_Channel 78



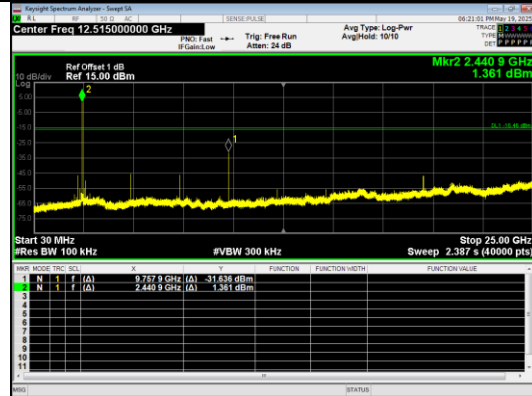
Out Of Band Emission
8DPSK_3-DH5_Channel 0



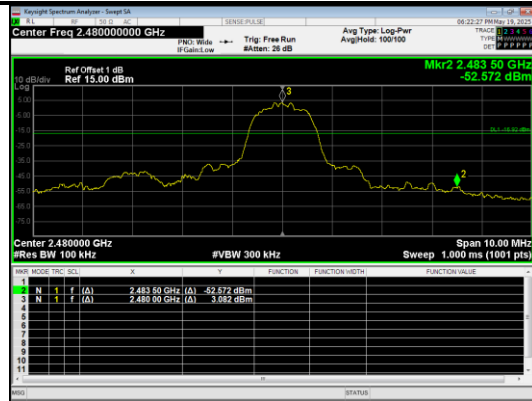
30.0 MHz - 25000.0 MHz
8DPSK_3-DH5_Channel 0



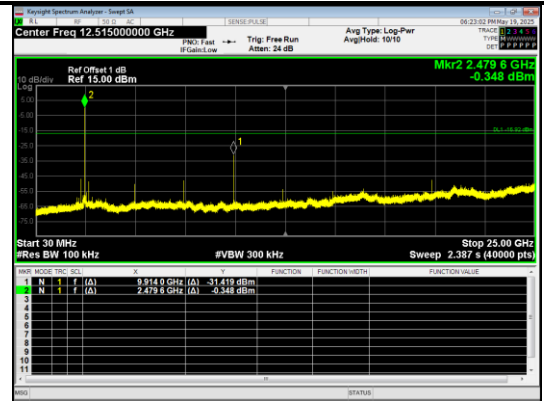
Out Of Band Emission
8DPSK_3-DH5_Channel 39



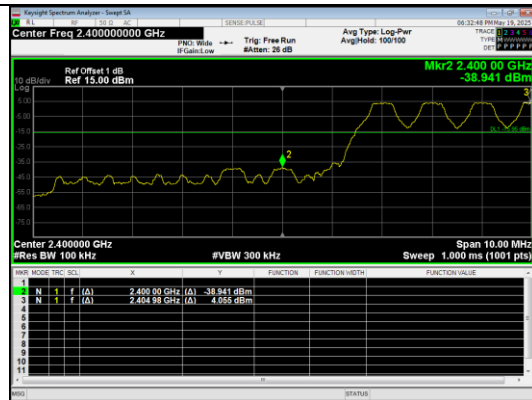
30.0 MHz - 25000.0 MHz
8DPSK_3-DH5_Channel 39



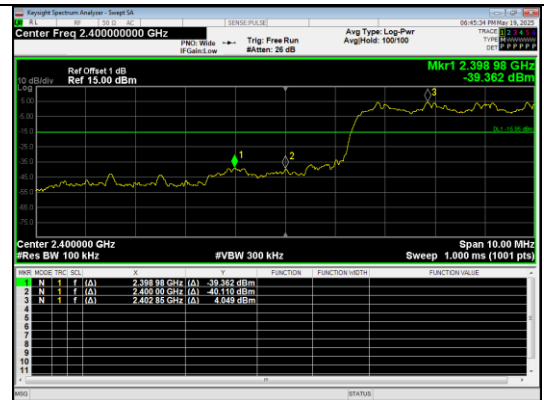
Out Of Band Emission
8DPSK_3-DH5_Channel 78



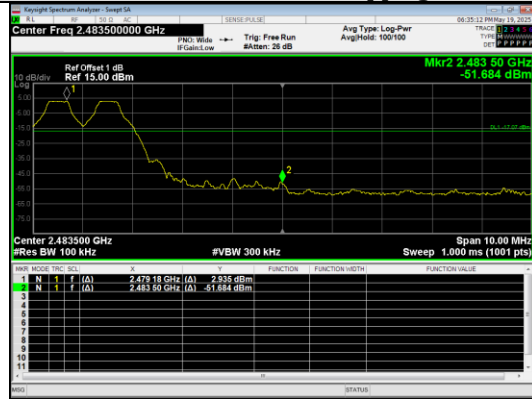
30.0 MHz - 25000.0 MHz
8DPSK_3-DH5_Channel 78



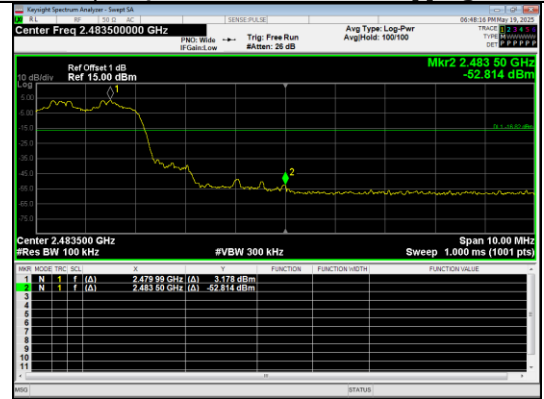
Out Of Band Emission(Left)
GFSK_DH5_Channel Hopping



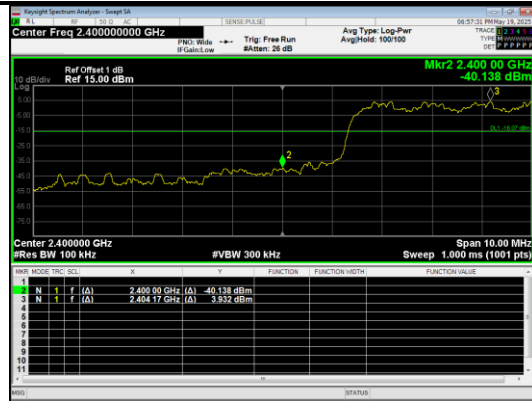
Out Of Band Emission(Left)
 $\pi/4$ DQPSK_2-DH5_Channel Hopping



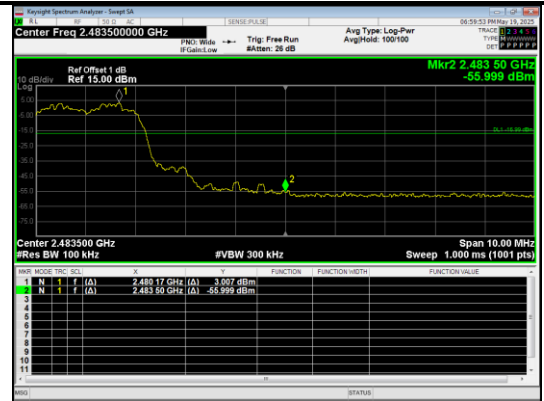
Out Of Band Emission(Right)
GFSK_DH5_Channel Hopping



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

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