

Appendix RF test data for BT 2 (BT8926A)

Duty Cycle

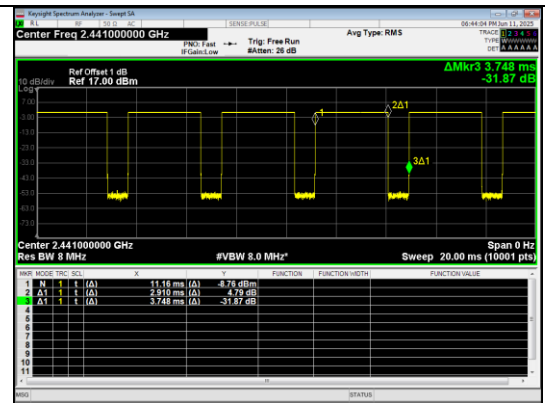
Test Result

Modulation	Packets	Channel	On Time (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle (linear)	Duty Cycle Factor (dB)	1/T
GFSK	DH5	0	2.910	3.748	77.64	0.7764	1.0991	0.3436
		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	2.896	3.748	77.27	0.7727	1.1199	0.3453
		39	2.898	3.750	77.28	0.7728	1.1193	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	2.896	3.748	77.27	0.7727	1.1199	0.3453
		78	2.896	3.748	77.27	0.7727	1.1199	0.3453

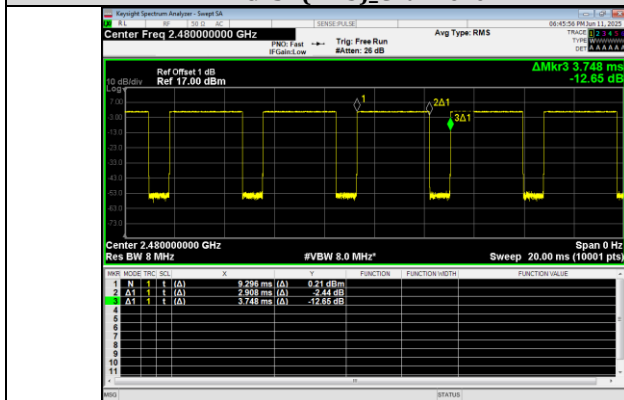
Test Graphs



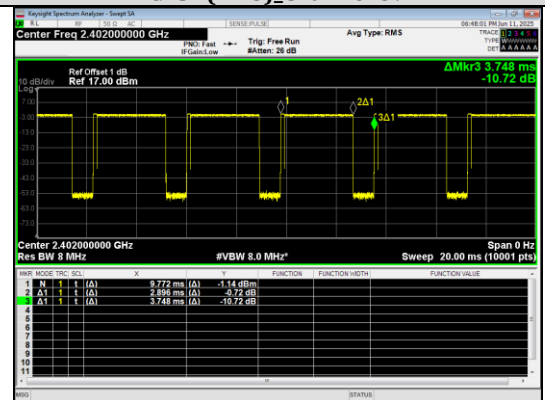
GFSK(DH5)_Channel 0

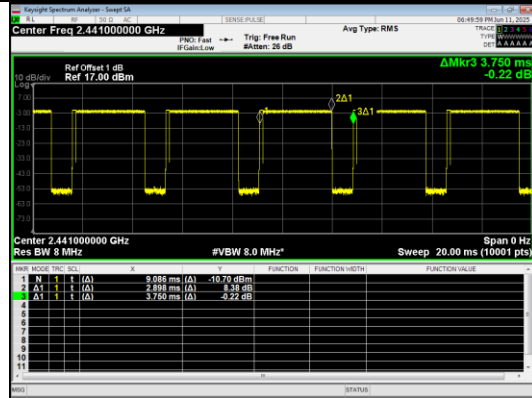


GFSK(DH5)_Channel 39

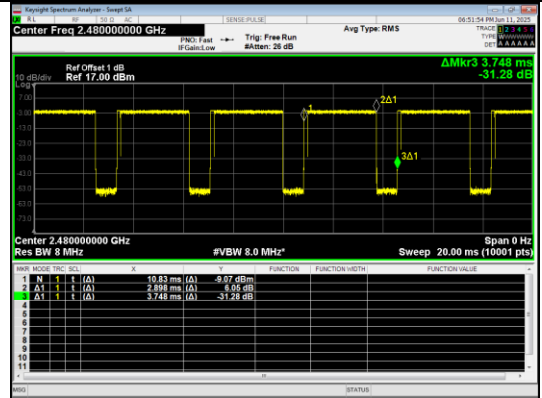


GFSK(DH5)_Channel 78

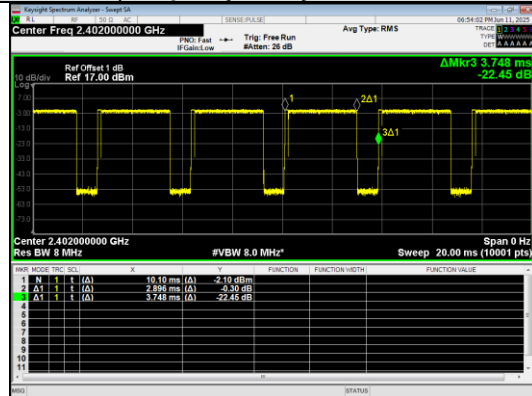

 $\pi/4$ DQPSK(2-DH5)_Channel 0



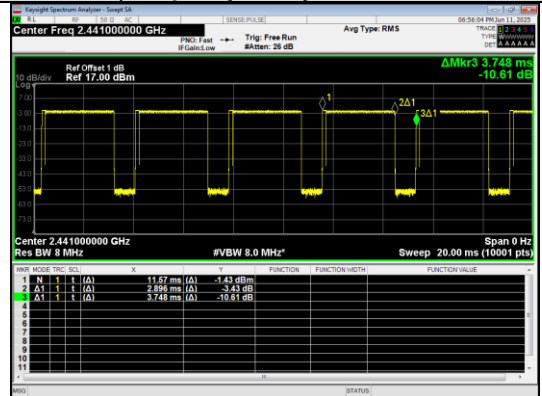
$\pi/4$ DQPSK(2-DH5)_Channel 39



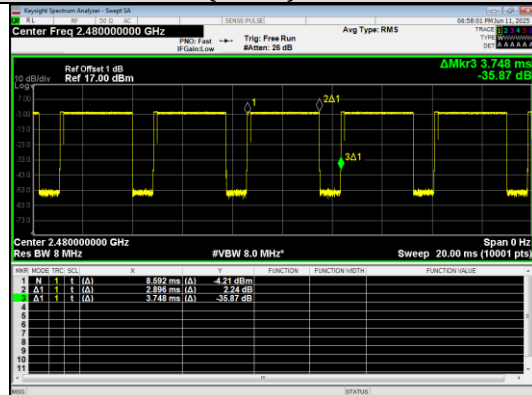
$\pi/4$ DQPSK(2-DH5)_Channel 78



8DPSK(3-DH5)_Channel 0



8DPSK(3-DH5)_Channel 39



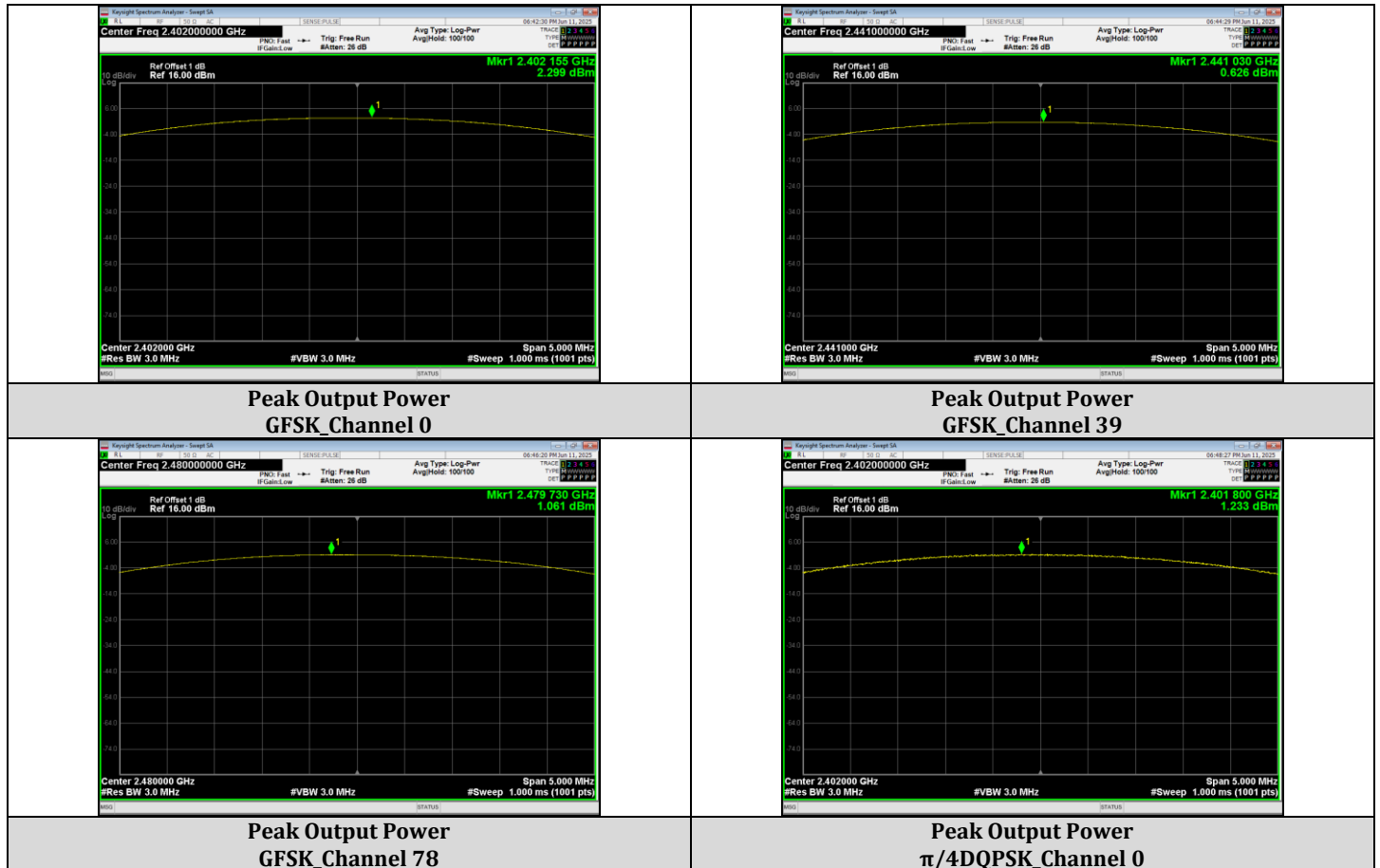
8DPSK(3-DH5)_Channel 78

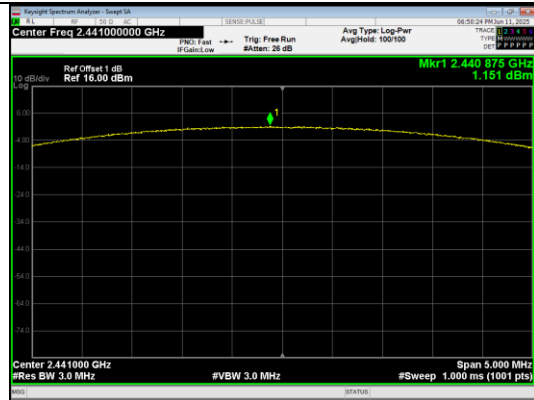
Conducted Output Power

Test Result

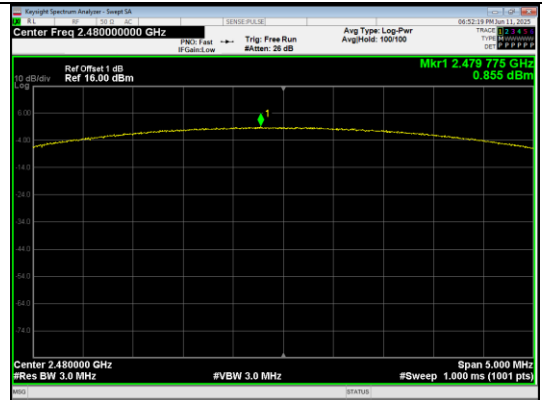
Modulation	Packet Type	Channel	Peak Output Power (dBm)	Peak Output Power (mW)	Limit (dBm)	Result
GFSK	DH5	0	2.30	1.70	≤30	PASS
		39	0.63	1.16		PASS
		78	1.06	1.28		PASS
$\pi/4$ DQPSK	2-DH5	0	1.23	1.33	≤20.97	PASS
		39	1.15	1.30		PASS
		78	0.85	1.22		PASS
8DPSK	3-DH5	0	1.59	1.44		PASS
		39	1.35	1.37		PASS
		78	1.01	1.26		PASS

Test Graphs

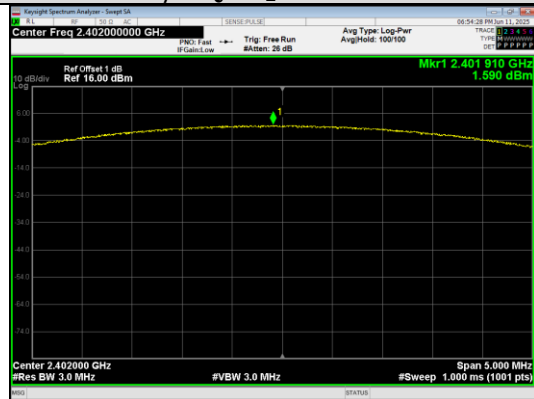




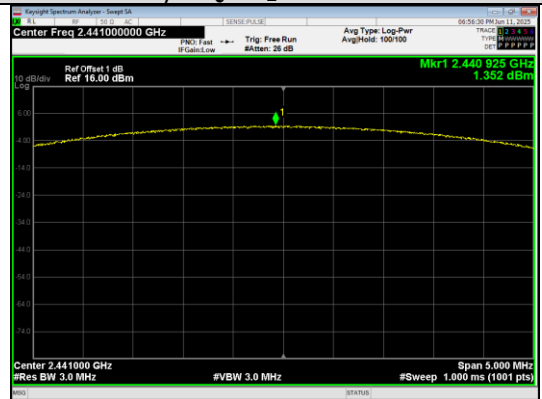
Peak Output Power
 $\pi/4$ DQPSK_Channel 39



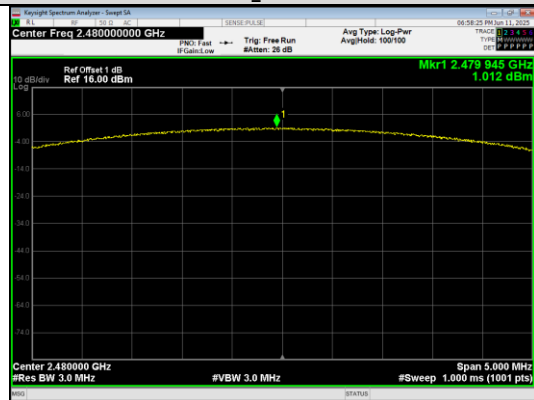
Peak Output Power
 $\pi/4$ DQPSK_Channel 78



Peak Output Power
8DPSK_Channel 0



Peak Output Power
8DPSK_Channel 39



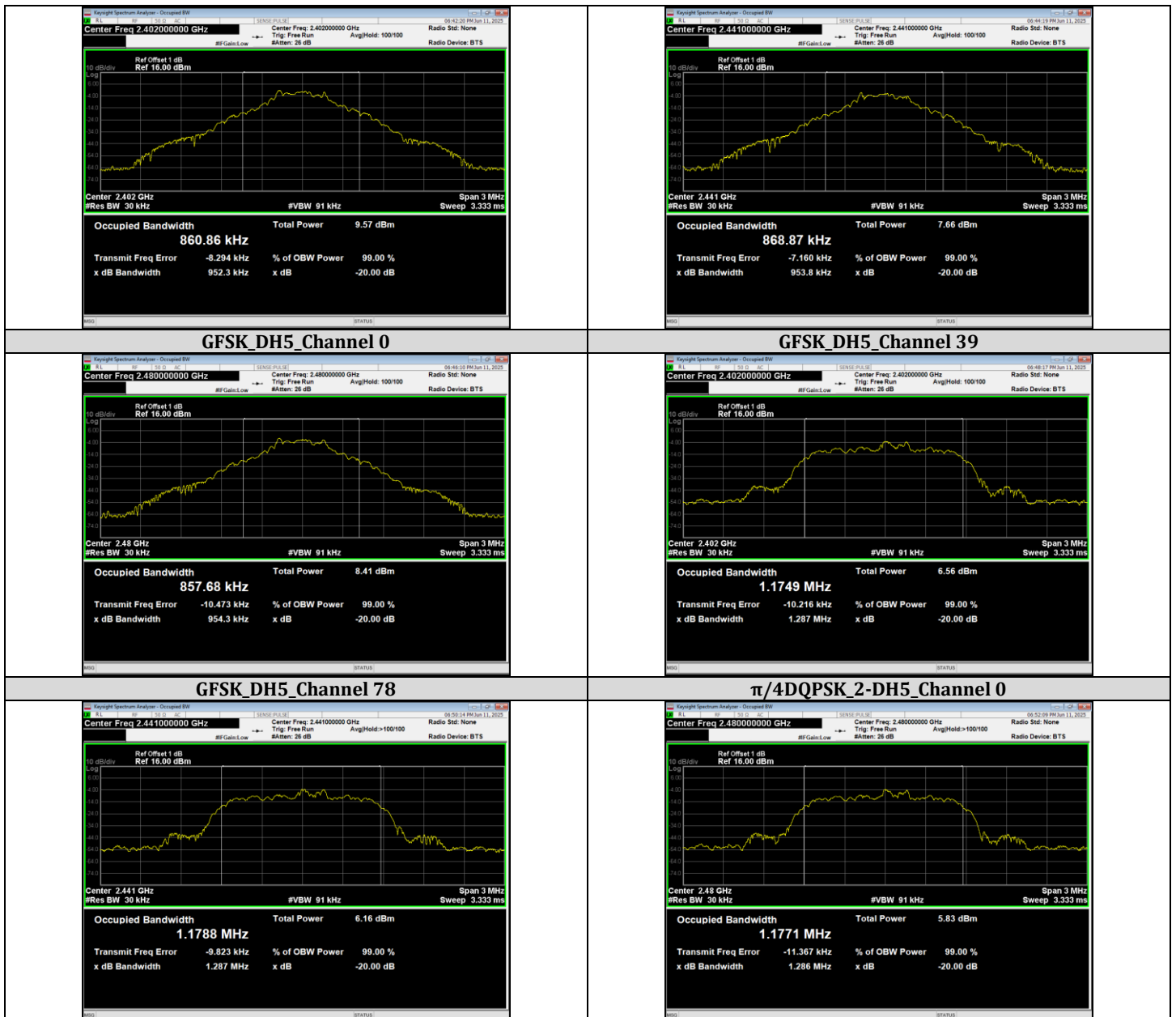
Peak Output Power
8DPSK_Channel 78

20dB Bandwidth

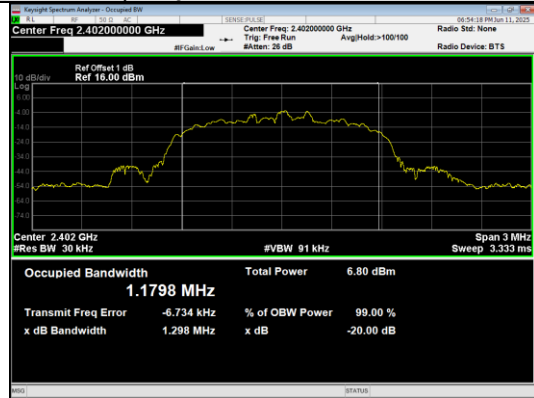
Test Result

Modulation	Channel	Center Frequency (MHz)	20 dB Bandwidth (MHz)
GFSK	0	2402 MHz	0.9523
	39	2441 MHz	0.9538
	78	2480 MHz	0.9543
$\pi/4$ DQPSK	0	2402 MHz	1.287
	39	2441 MHz	1.287
	78	2480 MHz	1.286
8DPSK	0	2402 MHz	1.298
	39	2441 MHz	1.299
	78	2480 MHz	1.303

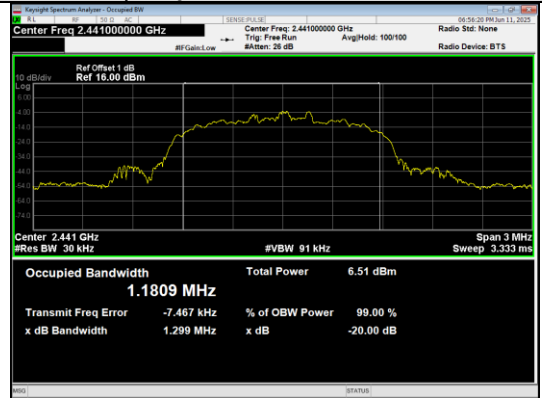
Test Graphs



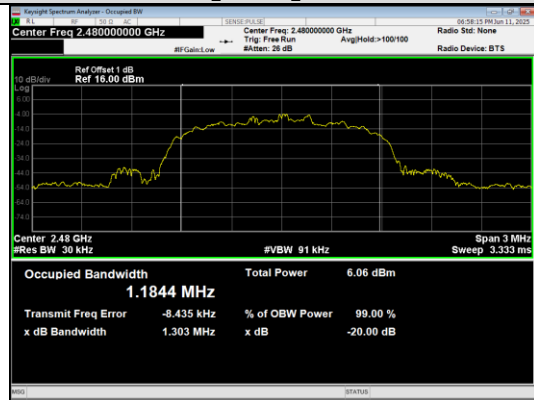
$\pi/4$ DQPSK 2-DH5_Channel 39



$\pi/4$ DQPSK 2-DH5_Channel 78



8DPSK 3-DH5_Channel 0



8DPSK 3-DH5_Channel 39

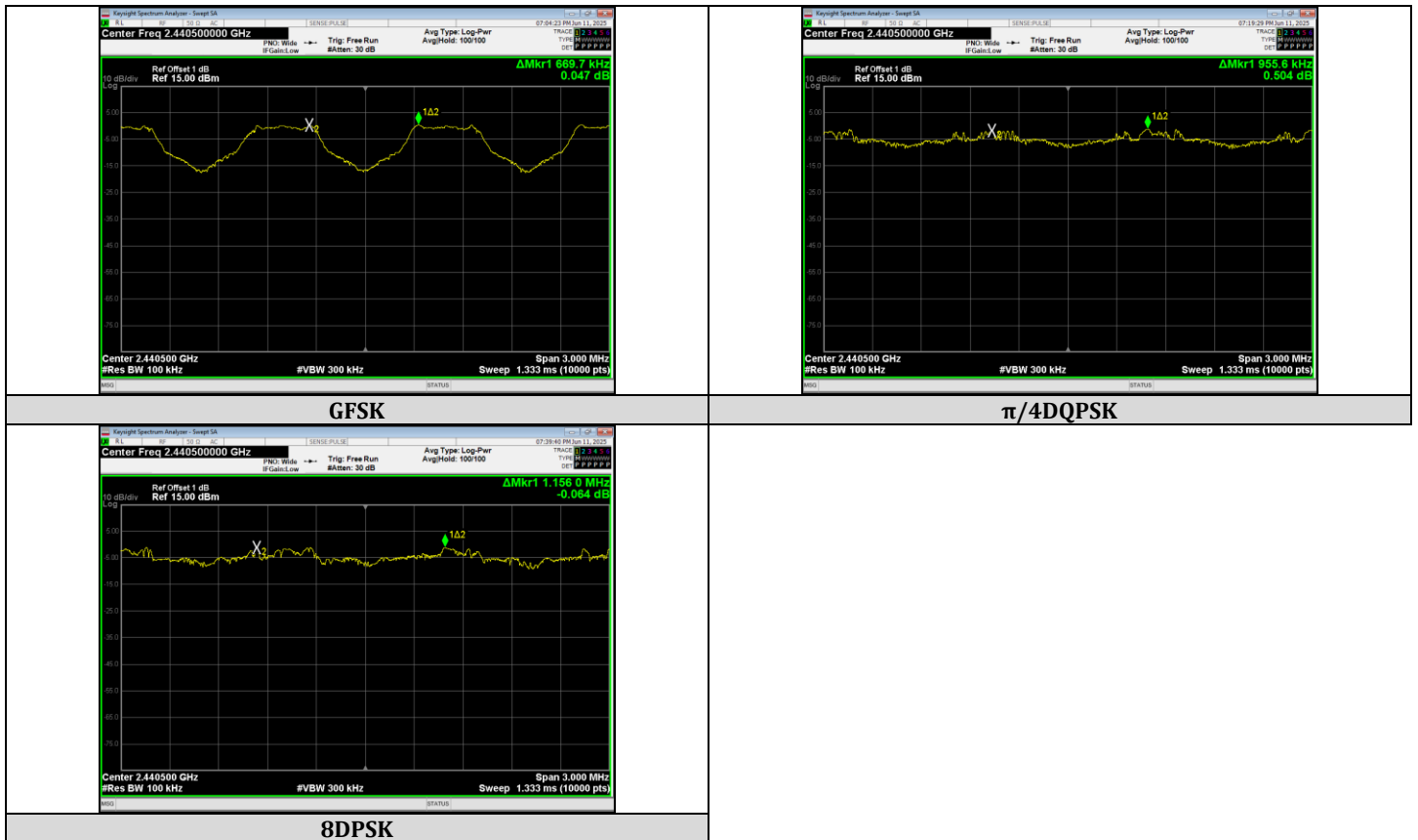
8DPSK 3-DH5_Channel 78

Carrier Frequencies Separation

Test Result

Modulation	Packet	Left Center frequency (MHz)	Right Center frequency (MHz)	Hopping Frequency Separation (MHz)	Limit (MHz)	Result
GFSK	DH5	2440.1563	2440.826	0.6697	0.636	PASS
$\pi/4$ DQPSK	2-DH5	2440.0333	2440.9889	0.9556	0.858	PASS
8DPSK	3-DH5	2439.8323	2440.9883	1.1560	0.869	PASS

Test Graphs

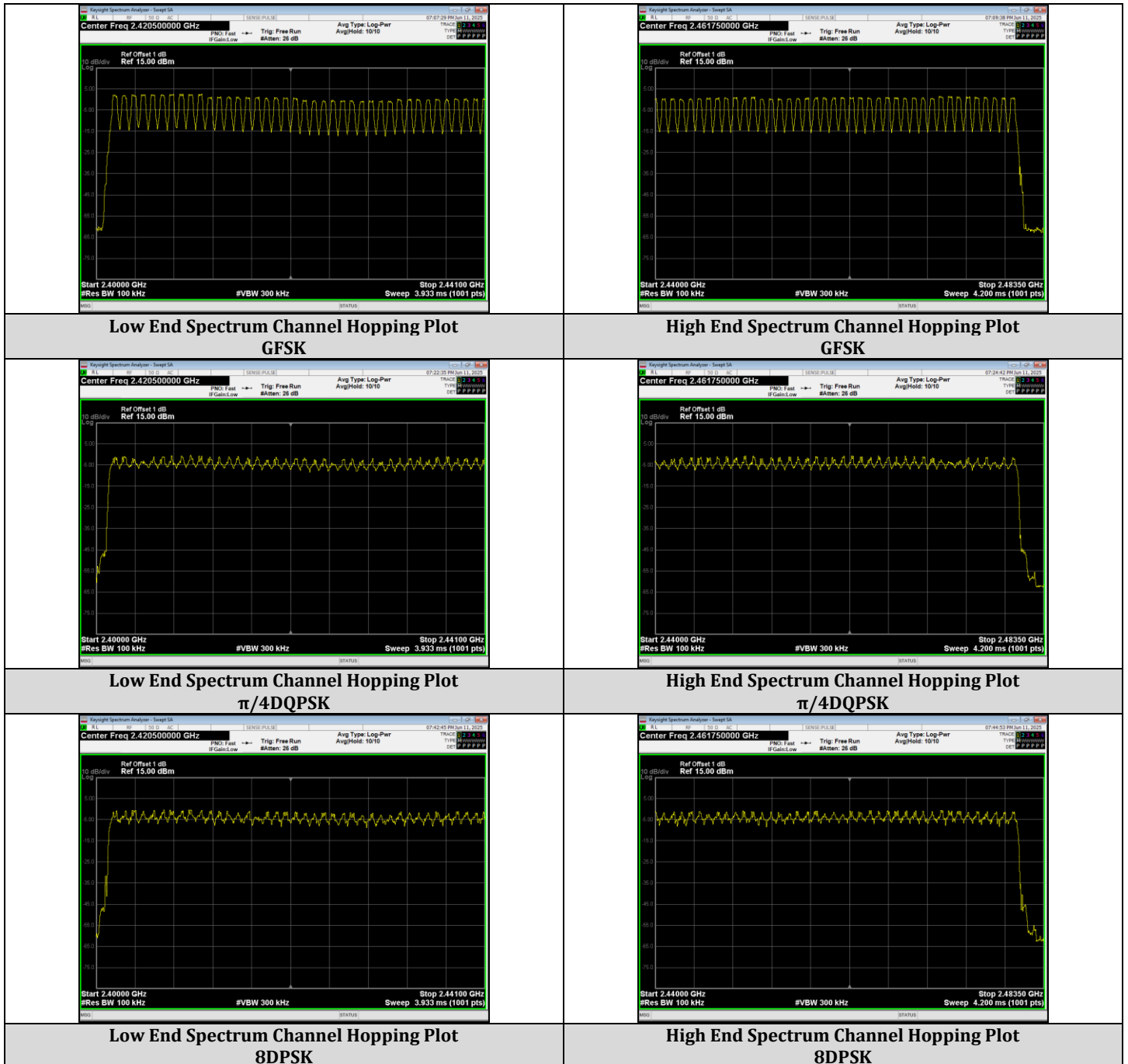


Number Of Hopping Channel

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

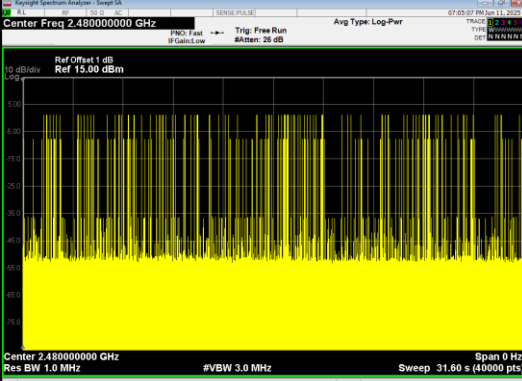
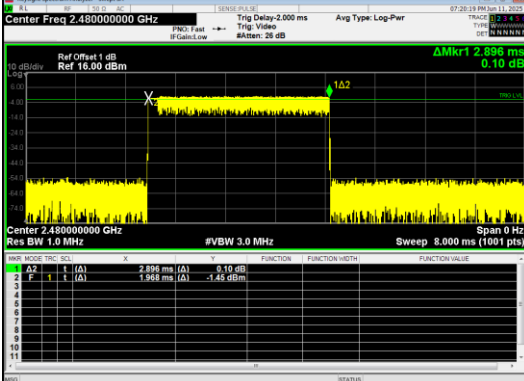
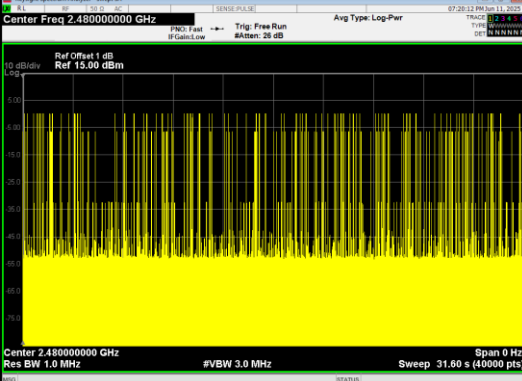
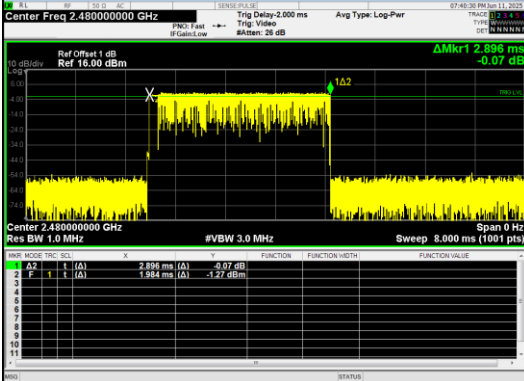
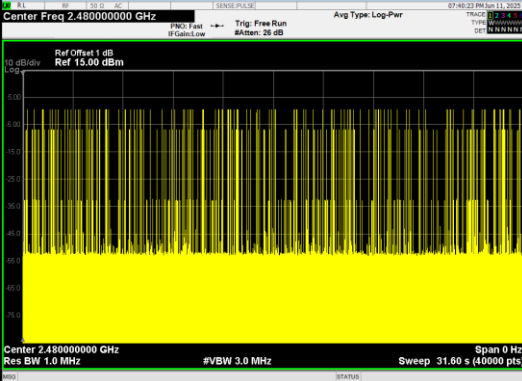


Dwell Time

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)	2.912	99	288.29	< 400	PASS
$\pi/4$ DQPSK	2-DH5		2.896	102	295.39		PASS
8DPSK	3-DH5		2.896	112	324.35		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

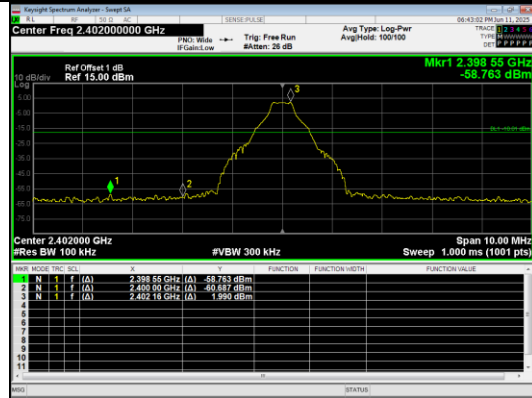
Non-Hopping

Modulation	Packet	Channel	OOB Emission Frequency (MHz)	OOB Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result
GFSK	DH5	0	2398.55	-58.763	-18.01	-40.753	PASS
			2400.00	-60.687	-18.01	-42.677	PASS
			24951.9	-49.519	-18.01	-31.509	PASS
		39	1937.76	-40.016	-19.73	-20.286	PASS
		78	2483.50	-60.410	-19.28	-41.130	PASS
			24915.1	-50.550	-19.28	-31.270	PASS
$\pi/4$ DQPSK	2-DH5	0	2400.00	-59.460	-20.84	-38.620	PASS
			2544.54	-32.631	-20.84	-11.791	PASS
		39	2626.32	-40.871	-21.12	-19.751	PASS
		78	1885.94	-45.584	-21.41	-24.174	PASS
			2483.50	-62.723	-21.41	-41.313	PASS
8DPSK	3-DH5	0	1885.94	-46.494	-20.81	-25.684	PASS
			2400.00	-57.822	-20.81	-37.012	PASS
		39	24993.8	-49.789	-21.05	-28.739	PASS
		78	2483.50	-59.933	-21.33	-38.603	PASS
			24965.0	-48.855	-21.33	-27.525	PASS

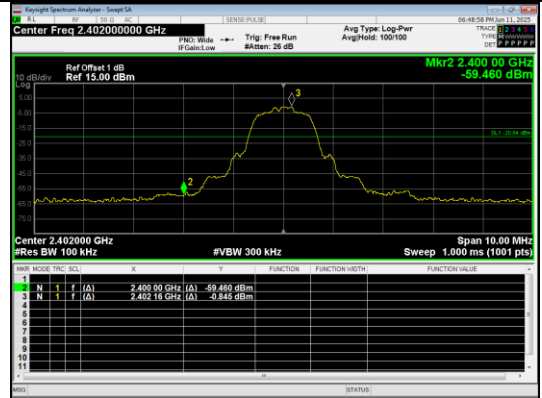
Hopping

Modulation	Packet	Channel	OOB Emission Frequency (MHz)	OOB Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result
GFSK	DH5	Hopping	2397.91	-50.154	-17.78	-32.374	PASS
			2400.00	-52.708	-17.78	-34.928	PASS
			2483.50	-60.156	-19.12	-41.036	PASS
$\pi/4$ DQPSK	2-DH5		2400.00	-59.754	-20.62	-39.134	PASS
			2483.50	-62.695	-21.37	-41.325	PASS
8DPSK	3-DH5		2395.31	-55.597	-20.57	-35.027	PASS
			2400.00	-59.762	-20.57	-39.192	PASS
			2483.50	-57.867	-21.26	-36.607	PASS

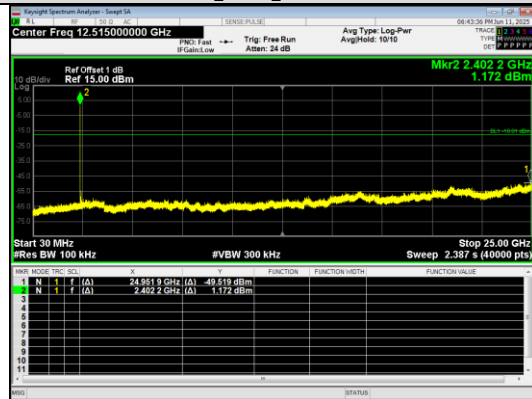
Test Graphs



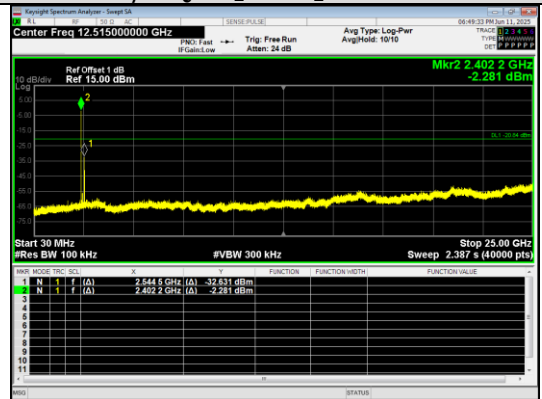
Out Of Band Emission
GFSK_DH5_Channel 0



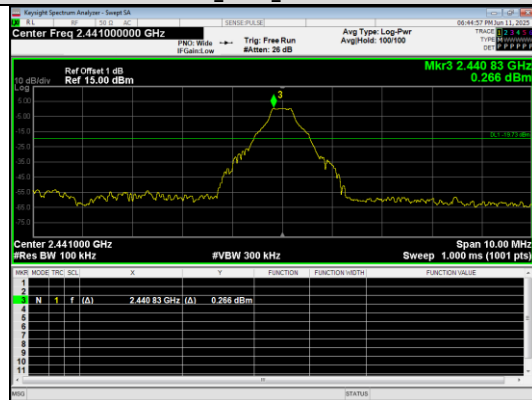
Out Of Band Emission
 $\pi/4$ DQPSK_2-DH5_Channel 0



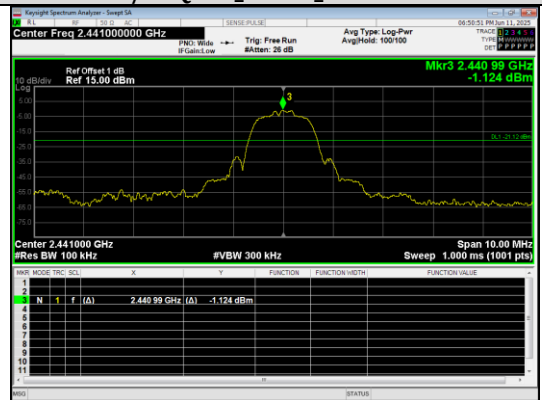
30.0 MHz - 25000.0 MHz
GFSK_DH5_Channel 0



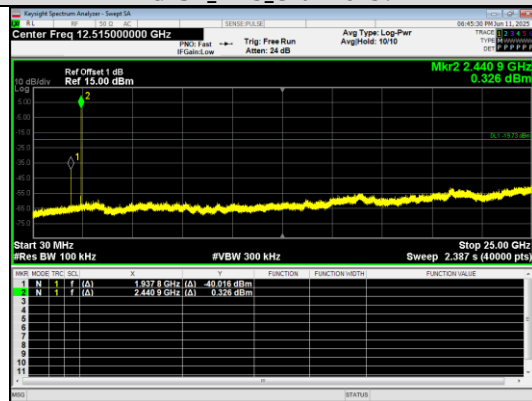
30.0 MHz - 25000.0 MHz
 $\pi/4$ DQPSK_2-DH5_Channel 0



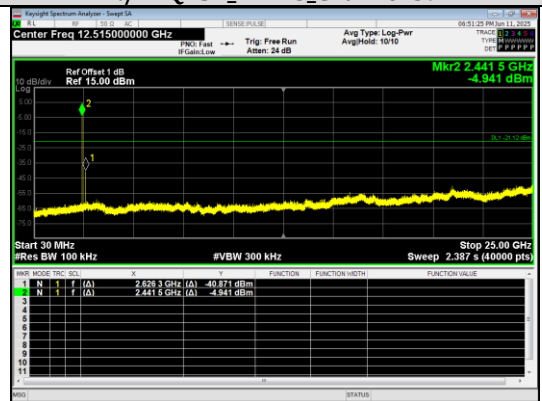
Out Of Band Emission
GFSK_DH5_Channel 39



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

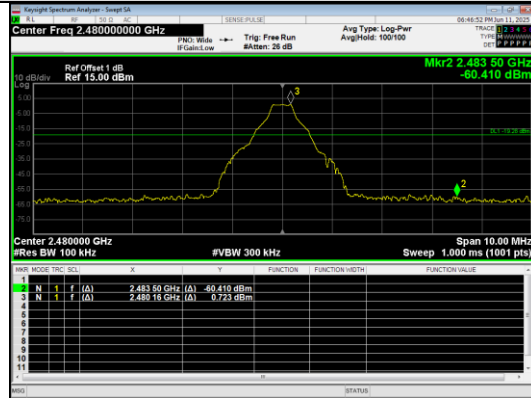
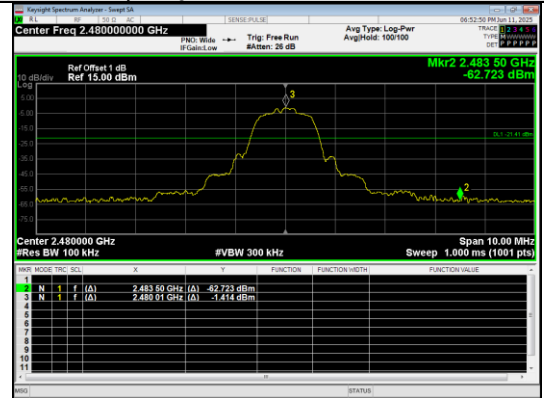
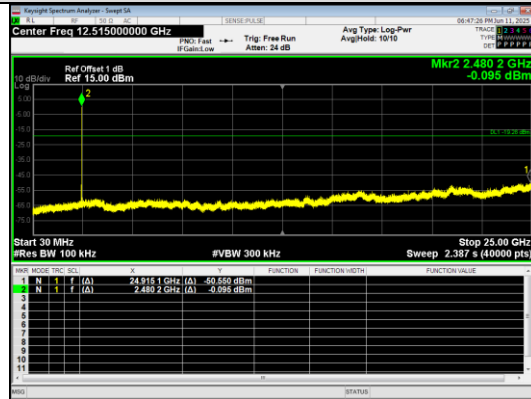
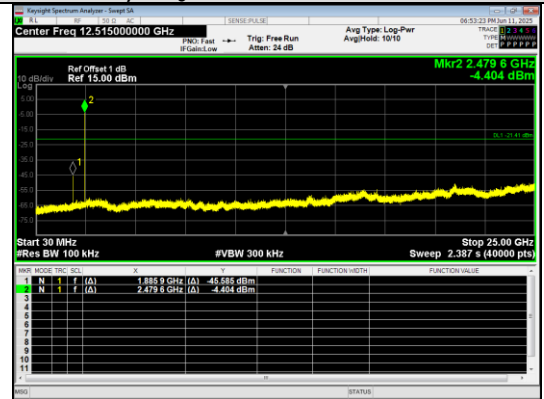


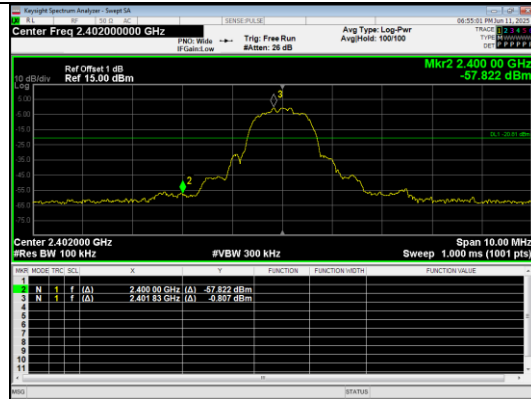
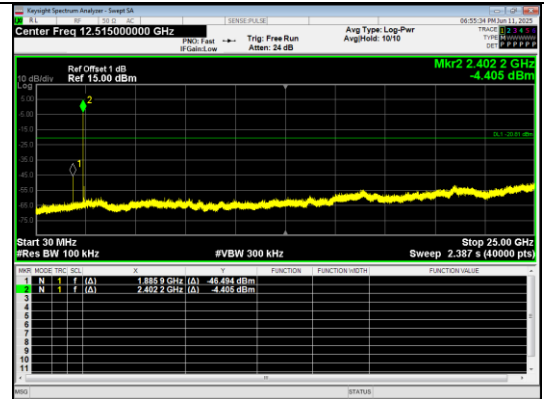
30.0 MHz - 25000.0 MHz

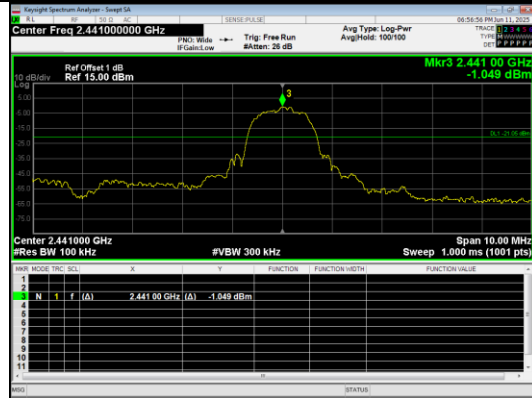


30.0 MHz - 25000.0 MHz

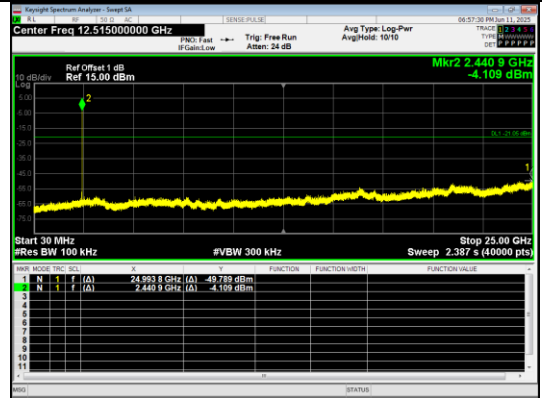
GFSK_DH5_Channel 39


 $\pi/4$ 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

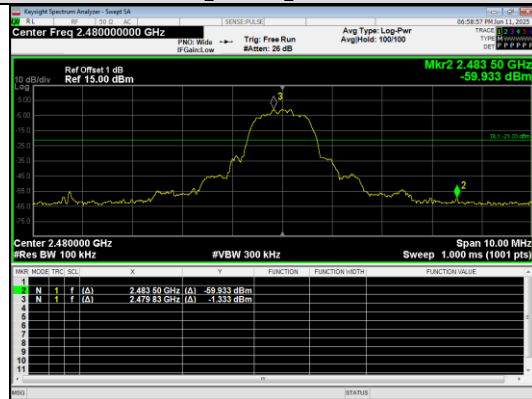
30.0 MHz - 25000.0 MHz
 $\pi/4$ DQPSK_2-DH5_Channel 78

Out Of Band Emission
8DPSK_3-DH5_Channel 0

30.0 MHz - 25000.0 MHz
8DPSK_3-DH5_Channel 0



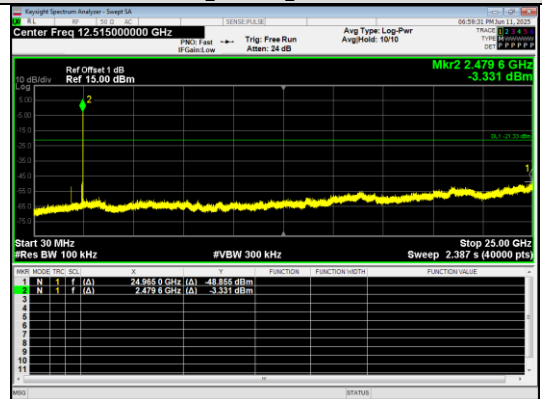
Out Of Band Emission
8DPSK_3-DH5_Channel 39



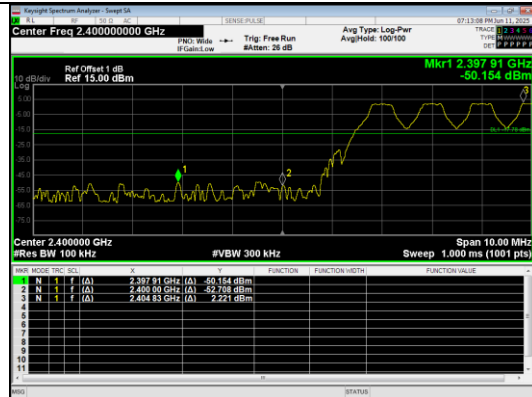
30.0 MHz - 25000.0 MHz
8DPSK_3-DH5_Channel 39



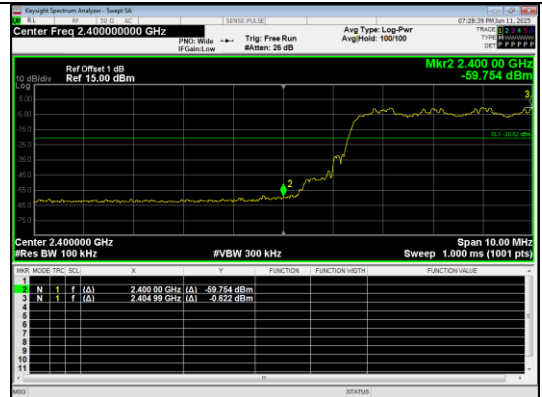
Out Of Band Emission
8DPSK_3-DH5_Channel 78



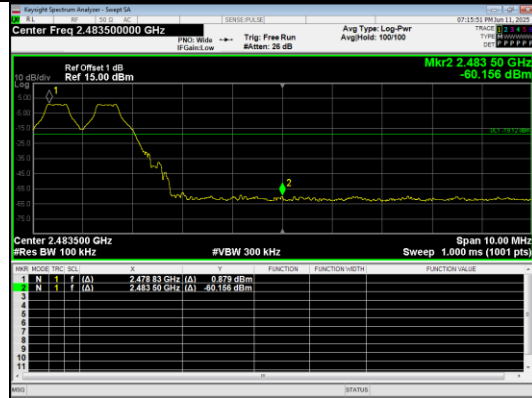
30.0 MHz - 25000.0 MHz
8DPSK_3-DH5_Channel 78



Out Of Band Emission(Left)
GFSK_DH5_Channel Hopping



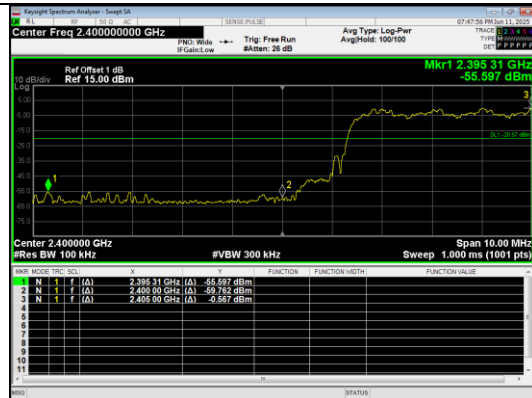
Out Of Band Emission(Left)
 $\pi/4$ DQPSK_2-DH5_Channel Hopping



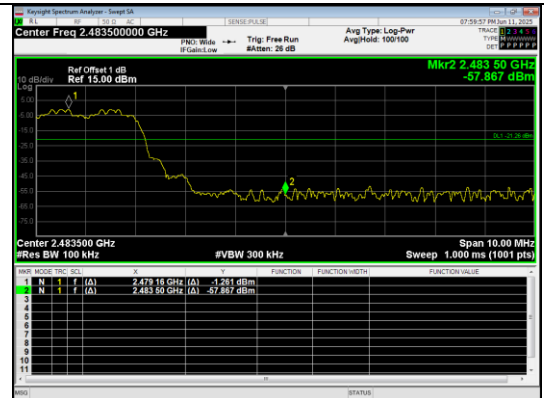
Out Of Band Emission(Right)
GFSK_DH5_Channel Hopping



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 *****