

Appendix A for test data:

A1.Conducted Peak Output Power

Test Result

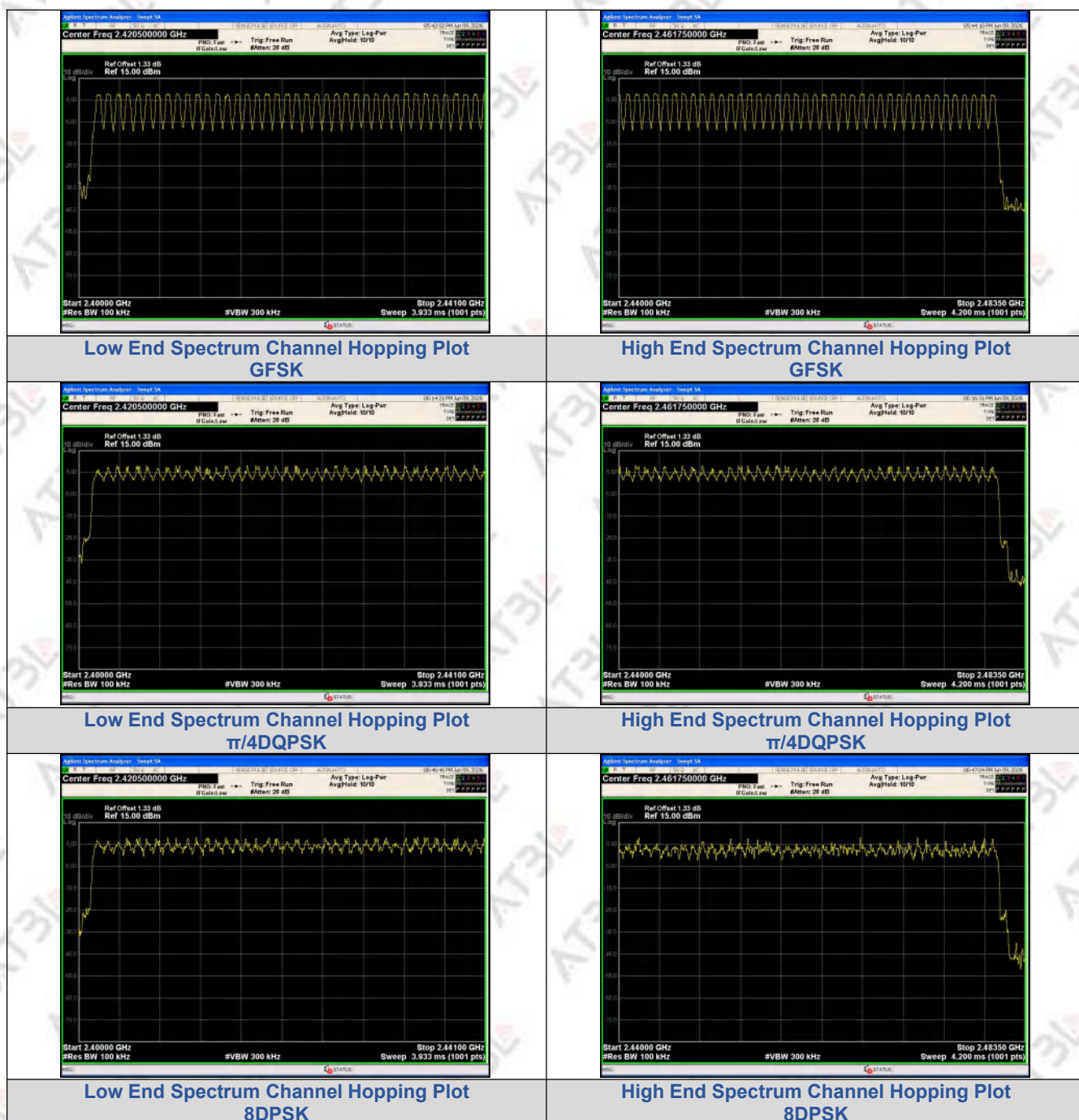
Modulation	Packet Type	Channel	Peak Output Power (dBm)	Peak Output Power Limit (dBm)	EIRP (dBm)	EIRP Limit (dBm)	Result
GFSK	DH5	0	0.68	≤21	0.10	≤36.02	PASS
		39	0.92	≤21	0.34	≤36.02	PASS
		78	0.59	≤21	0.01	≤36.02	PASS
π/4DQPSK	2-DH5	0	1.63	≤21	1.05	≤36.02	PASS
		39	1.82	≤21	1.24	≤36.02	PASS
		78	1.47	≤21	0.89	≤36.02	PASS
8DPSK	3-DH5	0	2.00	≤21	1.42	≤36.02	PASS
		39	2.28	≤21	1.70	≤36.02	PASS
		78	1.91	≤21	1.33	≤36.02	PASS

A2.Number of Hopping Frequencies

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



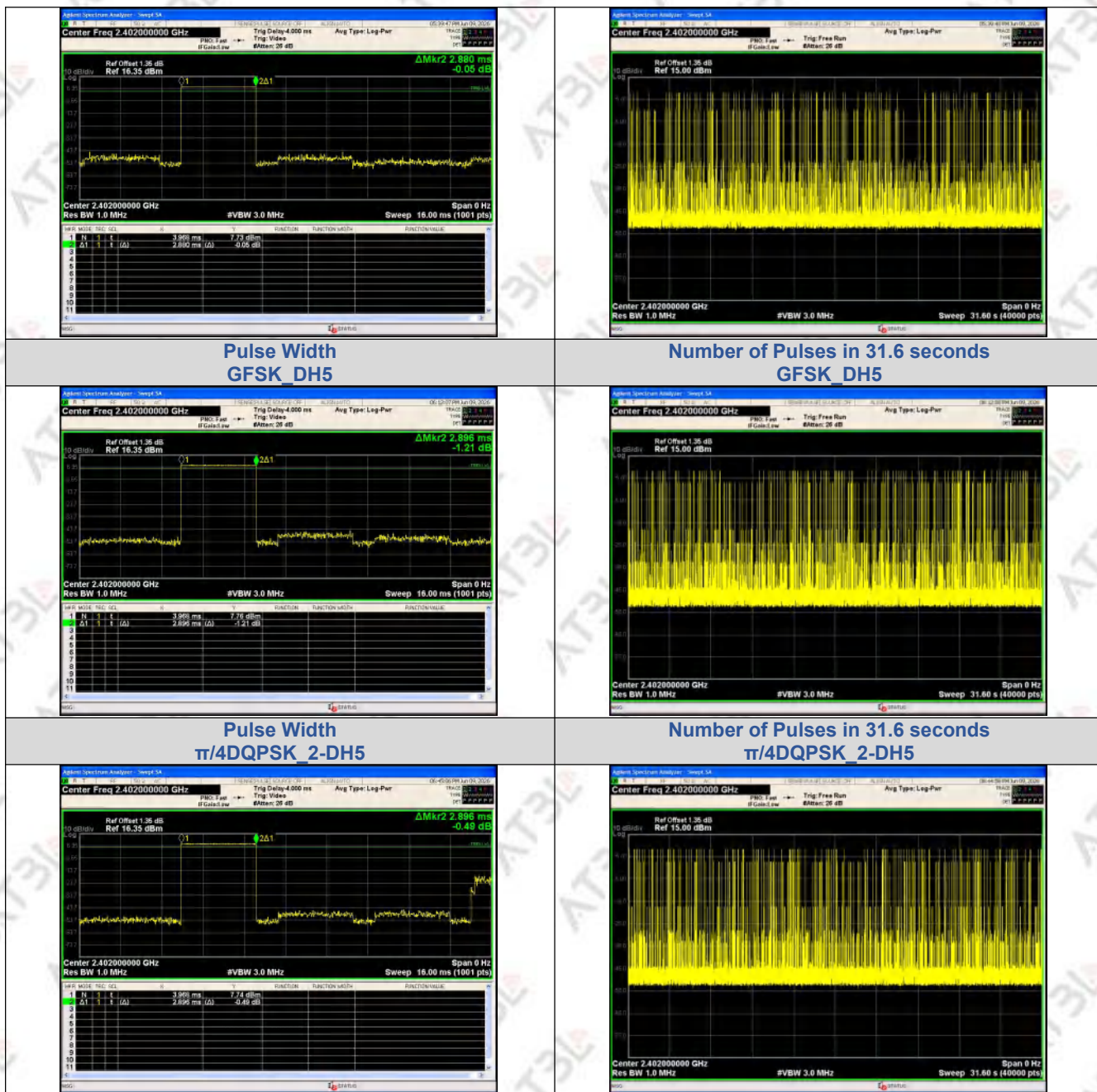
A3.Dwell Time

Test Result

Modulation	Packet	Channel	Pulse Width (ms)	Number of Pulses in 31.6 seconds	Dwell Time (ms)	Limit (ms)	Result
GFSK	DH5	Hopping	2.880	91	262.08	< 400	PASS
$\pi/4$ DQPSK	2-DH5		2.896	112	324.35		PASS
8DPSK	3-DH5		2.896	116	335.94		PASS

Note: Dwell time=Pulse time(ms)*Number of Pulses in 31.6 seconds

Test Graphs



Pulse Width
8DPSK_3-DH5

Number of Pulses in 31.6 seconds
8DPSK_3-DH5

A4.Duty Cycle

Test Result

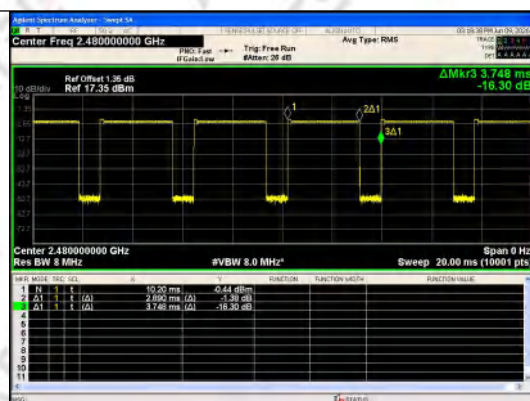
Modulation	Packets	Channel	On Time (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle (linear)	Duty Cycle Factor (dB)
GFSK	DH5	0	2.886	3.748	77.00	0.7700	1.1351
		39	2.886	3.748	77.00	0.7700	1.1351
		78	2.886	3.748	77.00	0.7700	1.1351
$\pi/4$ DQPSK	2-DH5	0	2.892	3.748	77.16	0.7716	1.1261
		39	2.890	3.748	77.11	0.7711	1.1289
		78	2.890	3.748	77.11	0.7711	1.1289
8DPSK	3-DH5	0	2.894	3.748	77.21	0.7721	1.1233
		39	2.894	3.748	77.21	0.7721	1.1233
		78	2.892	3.748	77.16	0.7716	1.1261

Test Graphs

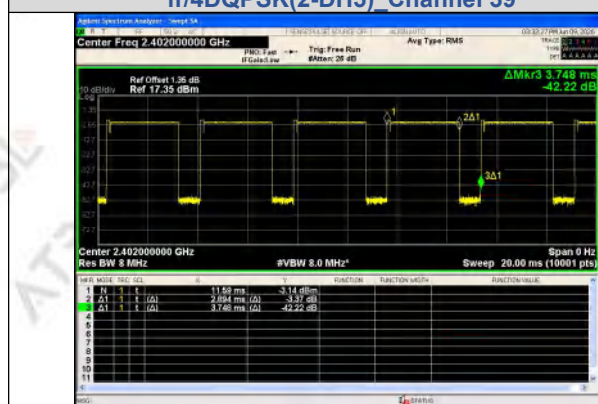




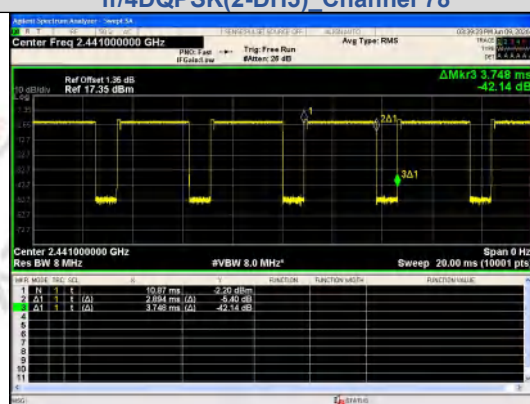
$\pi/4$ DQPSK(2-DH5)_Channel 39



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



8DPSK(3-DH5)_Channel 0



8DPSK(3-DH5)_Channel 39



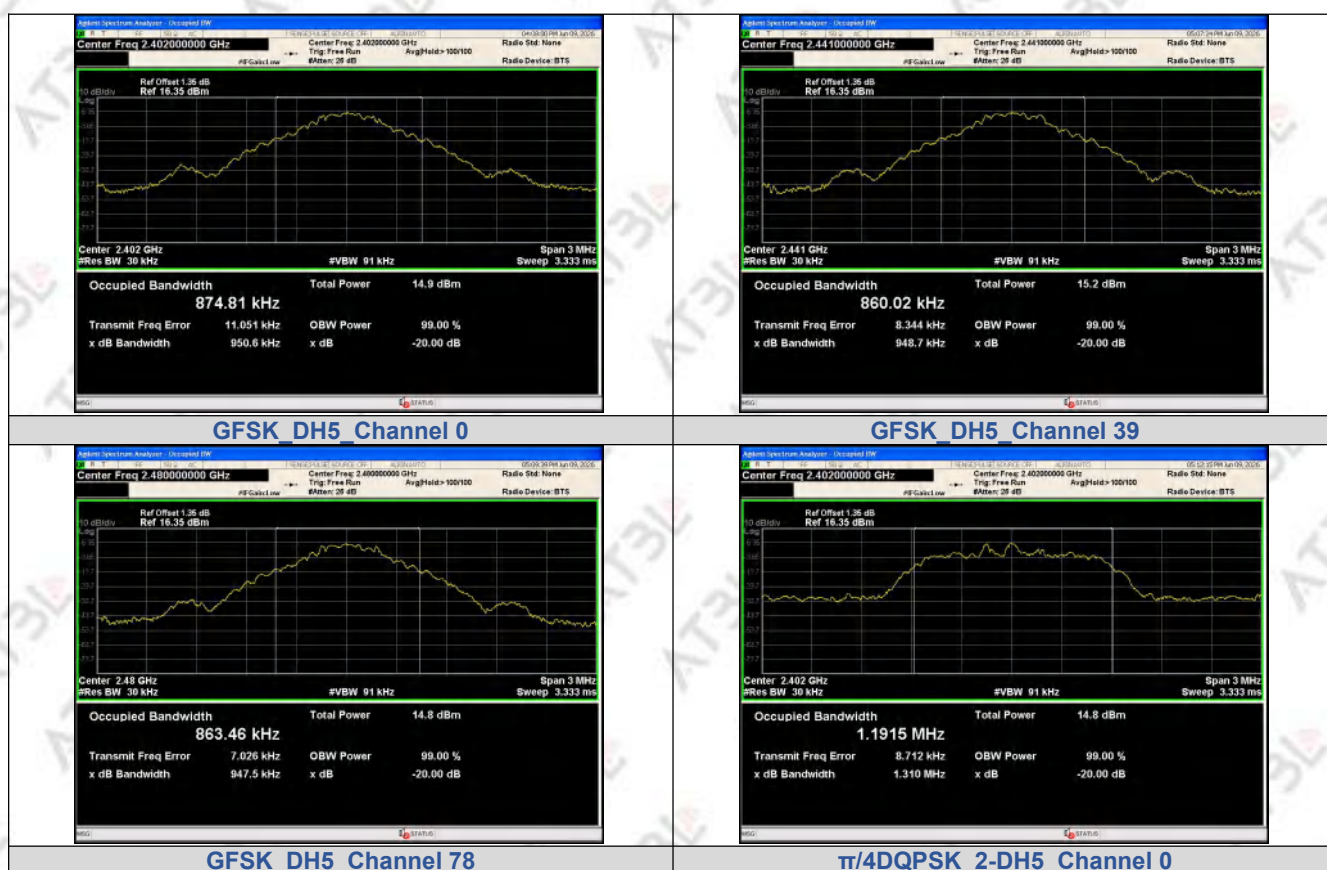
8DPSK(3-DH5)_Channel 78

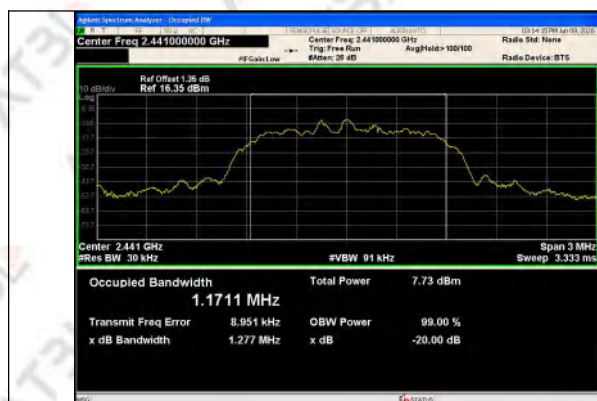
A5.20dB Bandwidth

Test Result

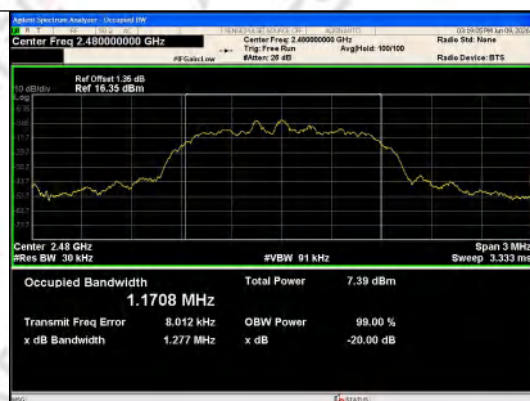
Modulation	Channel	Center Frequency (MHz)	20 dB Bandwidth (MHz)
GFSK	0	2402 MHz	0.9506
	39	2441 MHz	0.9487
	78	2480 MHz	0.9475
π /4DQPSK	0	2402 MHz	1.310
	39	2441 MHz	1.277
	78	2480 MHz	1.277
8DPSK	0	2402 MHz	1.289
	39	2441 MHz	1.296
	78	2480 MHz	1.285

Test Graphs

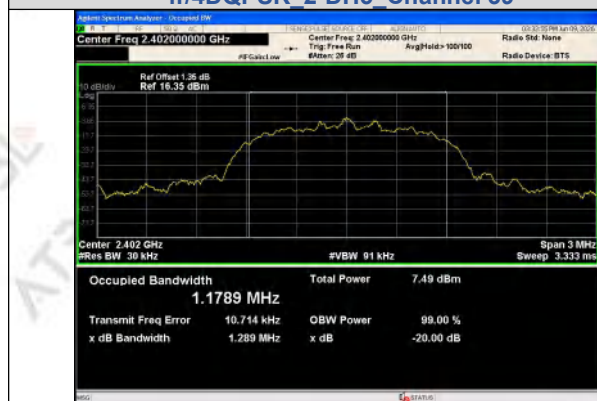




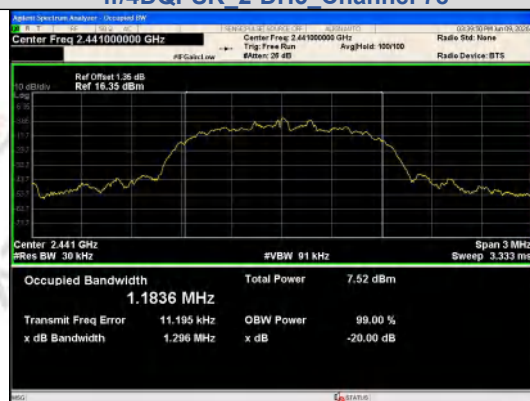
π /4DQPSK 2-DH5 Channel 39



π /4DQPSK 2-DH5 Channel 78



8DPSK 3-DH5 Channel 0



8DPSK 3-DH5 Channel 39



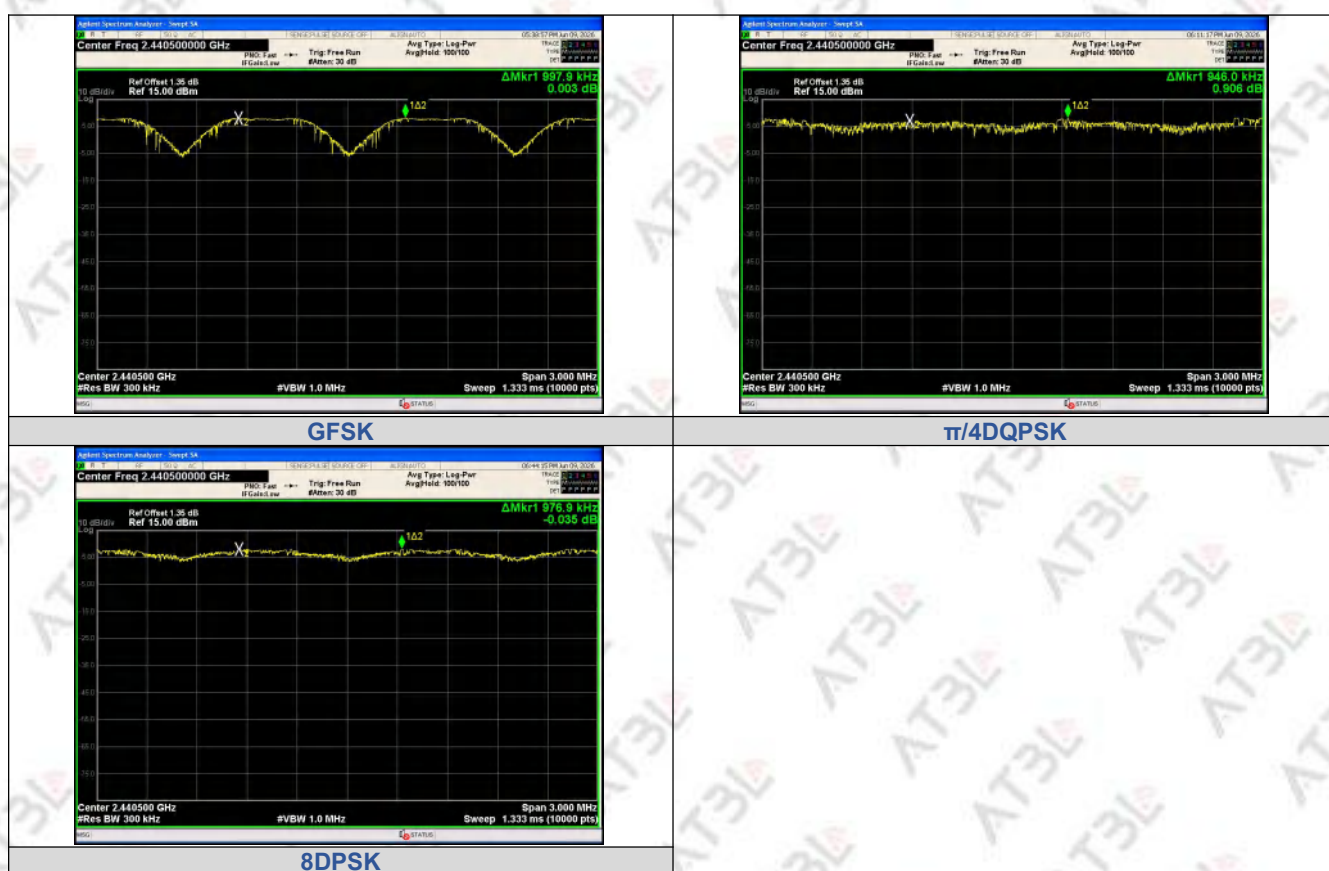
8DPSK 3-DH5 Channel 78

A6.Carrier Frequencies Separation

Test Result

Modulation	Packet	Left Center frequency (MHz)	Right Center frequency (MHz)	Hopping Frequency Separation (MHz)	Limit (MHz)	Result
GFSK	DH5	2439.8497	2440.8476	0.9979	0.634	PASS
$\pi/4$ DQPSK	2-DH5	2439.8854	2440.8314	0.9460	0.873	PASS
8DPSK	3-DH5	2439.8503	2440.8272	0.9769	0.864	PASS

Test Graphs



A7. Conducted Spurious & Band Edge Emission

Test Result

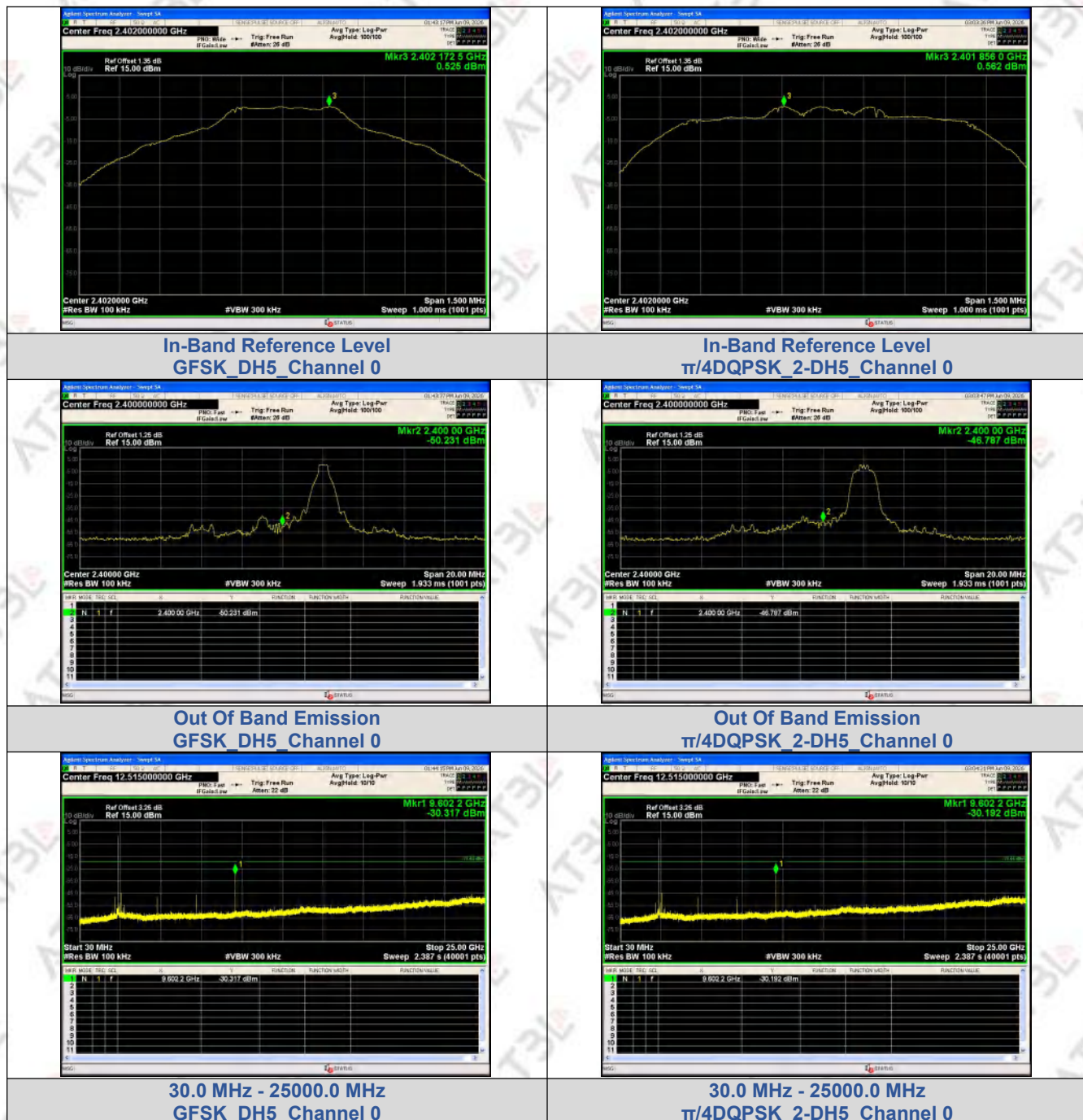
Modulation	Packet	Channel	OOB Emission Frequency (MHz)	OOB Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result
GFSK	DH5	0	2399.00	-41.749	-19.48	-22.269	PASS
			2400.00	-50.231	-19.48	-30.751	PASS
			9602.20	-30.317	-19.48	-10.837	PASS
		39	9758.31	-31.548	-19.25	-12.298	PASS
		78	2483.50	-51.628	-19.56	-32.068	PASS
			9913.75	-30.278	-19.56	-10.718	PASS
$\pi/4$ DQPSK	2-DH5	0	2399.00	-42.054	-19.44	-22.614	PASS
			2400.00	-46.787	-19.44	-27.347	PASS
			9602.20	-30.192	-19.44	-10.752	PASS
		39	9758.31	-31.444	-19.18	-12.264	PASS
		78	2483.50	-51.358	-19.64	-31.718	PASS
			9913.75	-30.089	-19.64	-10.449	PASS
8DPSK	3-DH5	0	2399.00	-42.735	-19.54	-23.195	PASS
			2400.00	-49.317	-19.54	-29.777	PASS
			9602.20	-29.634	-19.54	-10.094	PASS
		39	9758.31	-31.485	-19.31	-12.175	PASS
		78	2483.50	-53.902	-19.6	-34.302	PASS
			9913.75	-30.174	-19.6	-10.574	PASS

Hopping

Hopping							
Modulation	Packet	Channel	OOB Emission Frequency (MHz)	OOB Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result
GFSK	DH5	Hopping	2400.00	-32.523	-12.38	-20.143	PASS
			2483.50	-39.921	-11.73	-28.191	PASS
π/4DQPSK	2-DH5		2398.49	-33.480	-12.22	-21.260	PASS
			2400.00	-33.884	-12.22	-21.664	PASS
8DPSK	3-DH5		2483.50	-44.214	-11.85	-32.364	PASS
			2397.55	-33.976	-12.3	-21.676	PASS
			2400.00	-35.557	-12.3	-23.257	PASS
			2483.50	-42.215	-11.91	-30.305	PASS

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

Test Graphs

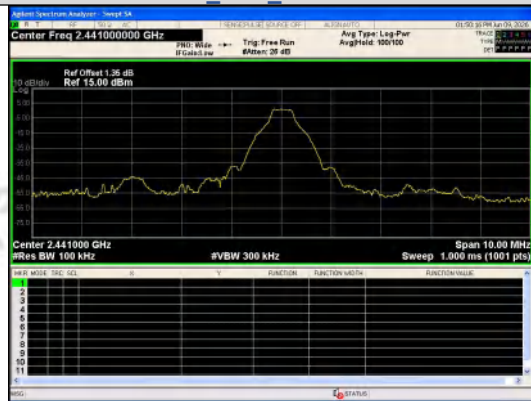




In-Band Reference Level
GFSK DH5 Channel 39



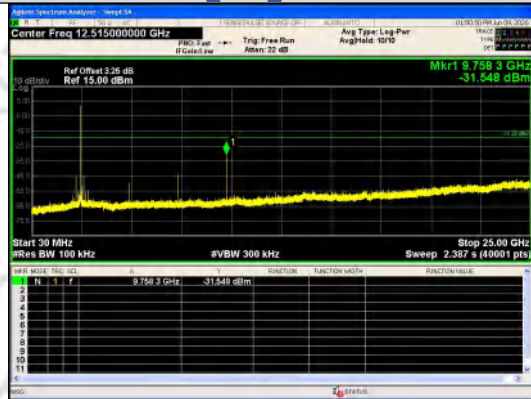
In-Band Reference Level
 $\pi/4$ DQPSK 2-DH5 Channel 39



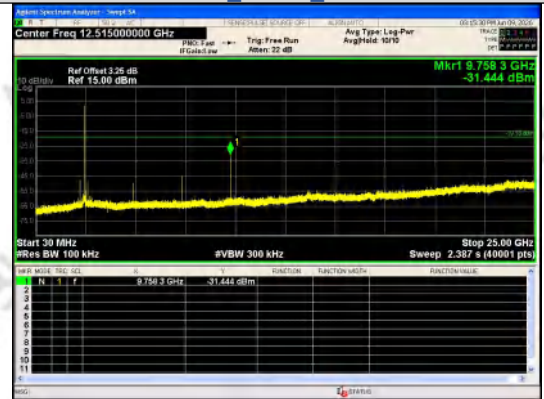
Out Of Band Emission
GFSK DH5 Channel 39



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

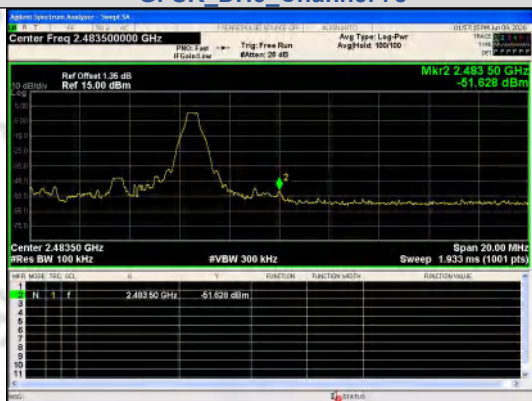
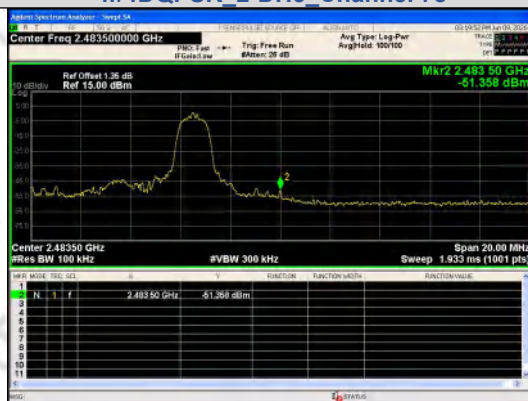
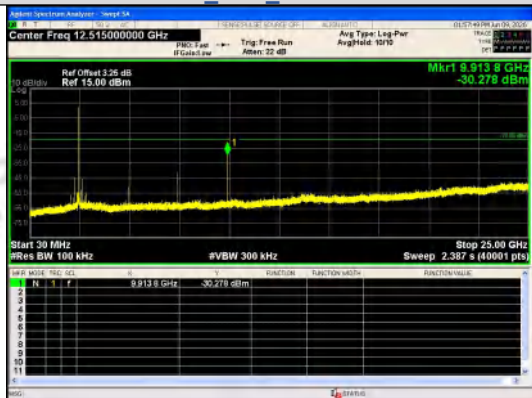
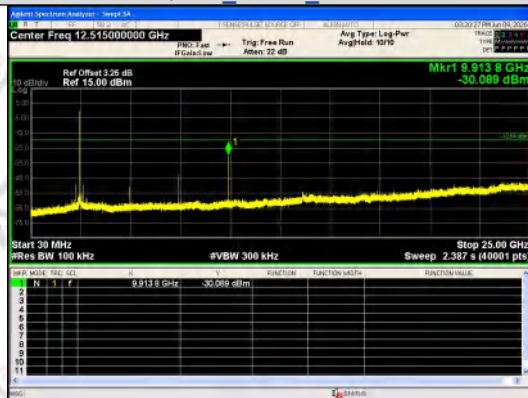


In-Band Reference Level

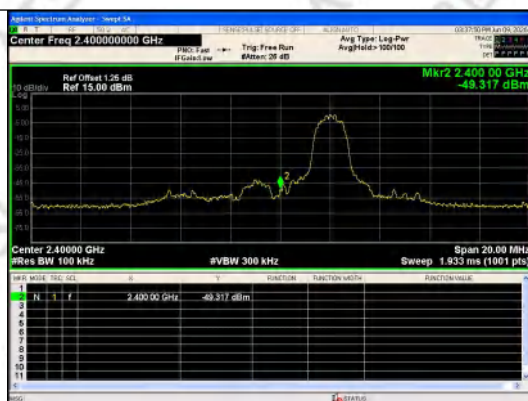


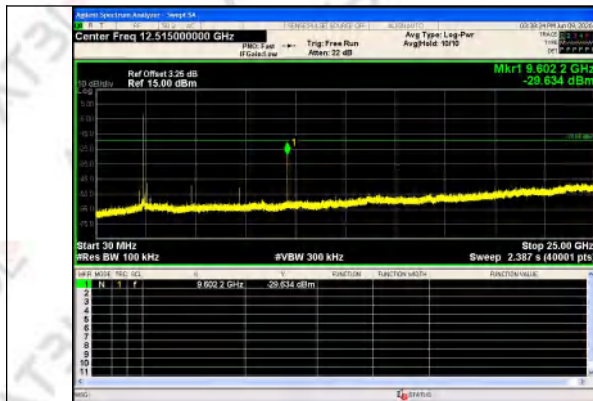
In-Band Reference Level

GFSK_DH5_Channel 78


 $\pi/4$ DQPSK_2-DH5_Channel 78

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

In-Band Reference Level
8DPSK_3-DH5_Channel 0

Out Of Band Emission
8DPSK_3-DH5_Channel 0



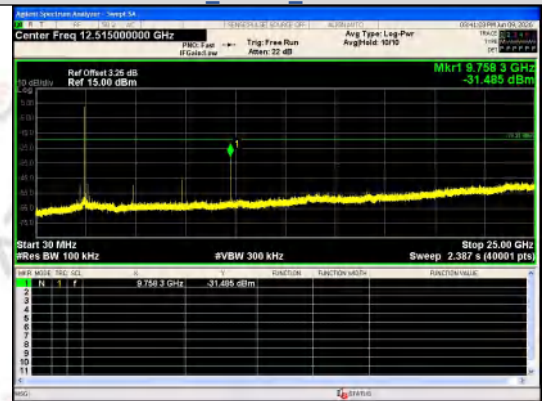
30.0 MHz - 25000.0 MHz
8DPSK 3-DH5 Channel 0



In-Band Reference Level
8DPSK 3-DH5 Channel 39



Out Of Band Emission
8DPSK 3-DH5 Channel 39



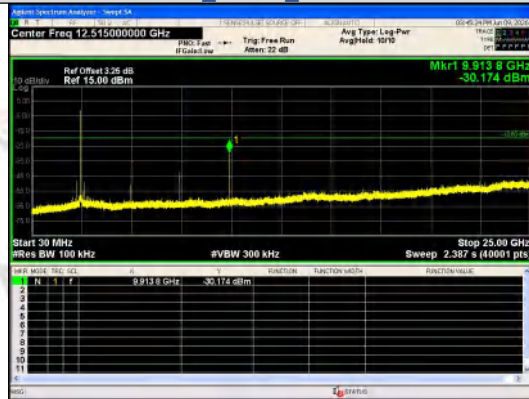
30.0 MHz - 25000.0 MHz
8DPSK 3-DH5 Channel 39



In-Band Reference Level
8DPSK 3-DH5 Channel 78

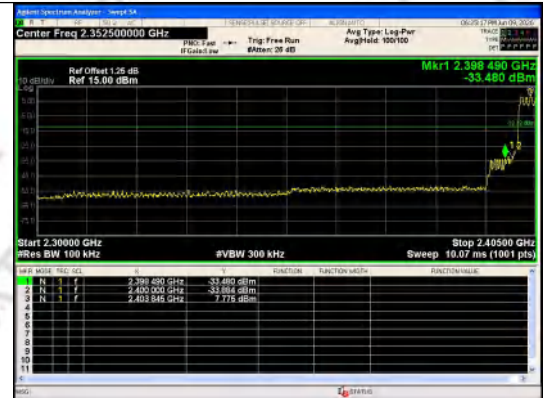
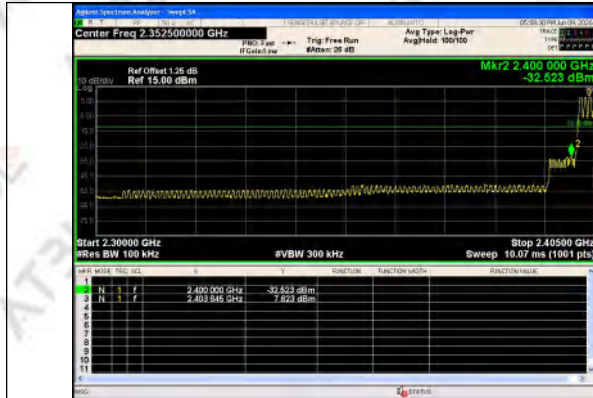


Out Of Band Emission
8DPSK 3-DH5 Channel 78



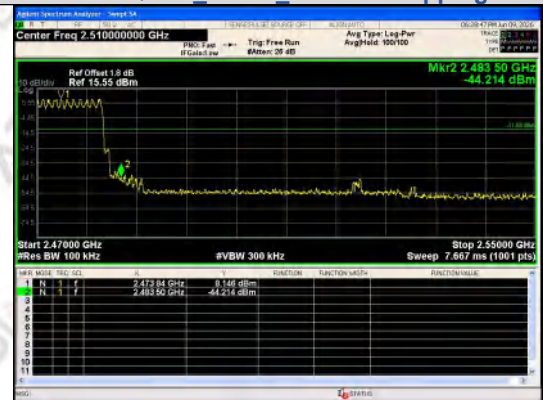
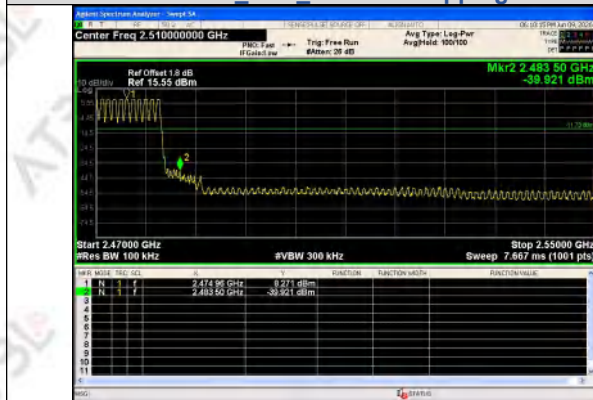
30.0 MHz - 25000.0 MHz

8DPSK_3-DH5_Channel 78



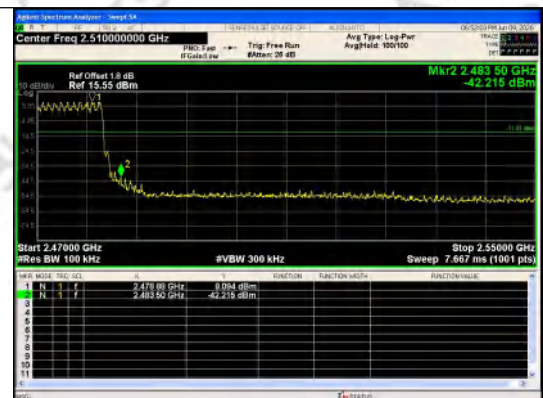
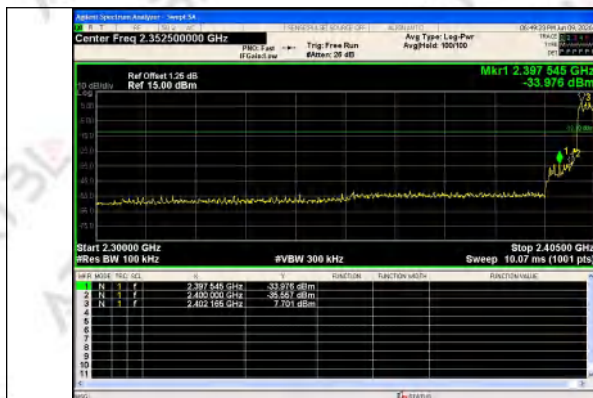
Out Of Band Emission(Left) GFSK_DH5_Channel Hopping

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*****