

Appendix RF test data for BT

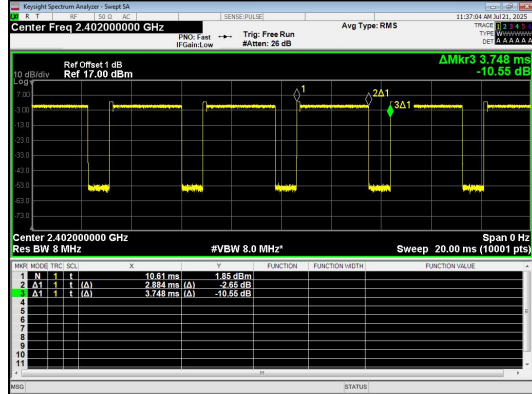
Duty Cycle Test Result

Modulation	Packets	Channel	On Time (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle (linear)	Duty Cycle Factor (dB)	1/T
GFSK	DH5	0	2.880	3.748	76.84	0.7684	1.1441	0.3472
		39	2.880	3.748	76.84	0.7684	1.1441	0.3472
		78	2.880	3.748	76.84	0.7684	1.1441	0.3472
$\pi/4$ DQPSK	2-DH5	0	2.884	3.748	76.95	0.7695	1.1379	0.3467
		39	2.884	3.748	76.95	0.7695	1.1379	0.3467
		78	2.884	3.748	76.95	0.7695	1.1379	0.3467
8DPSK	3-DH5	0	2.884	3.748	76.95	0.7695	1.1379	0.3467
		39	2.886	3.748	77.00	0.7700	1.1351	0.3465
		78	2.884	3.748	76.95	0.7695	1.1379	0.3467

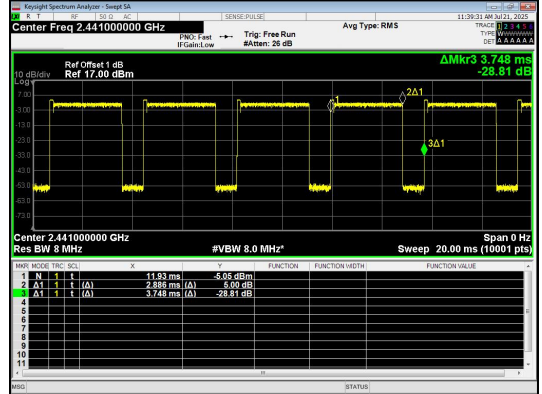
Test Graphs



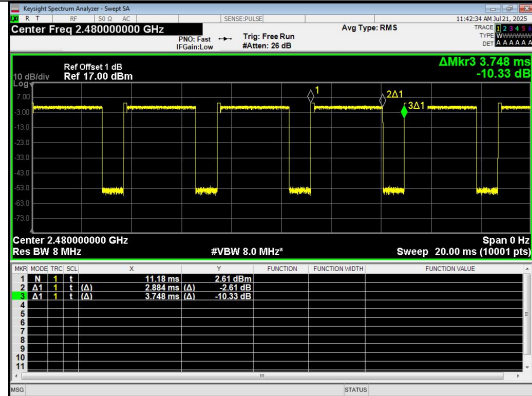
$\pi/4$ DQPSK(2-DH5)_Channel 39



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



8DPSK(3-DH5)_Channel 0



8DPSK(3-DH5)_Channel 39

8DPSK(3-DH5)_Channel 78

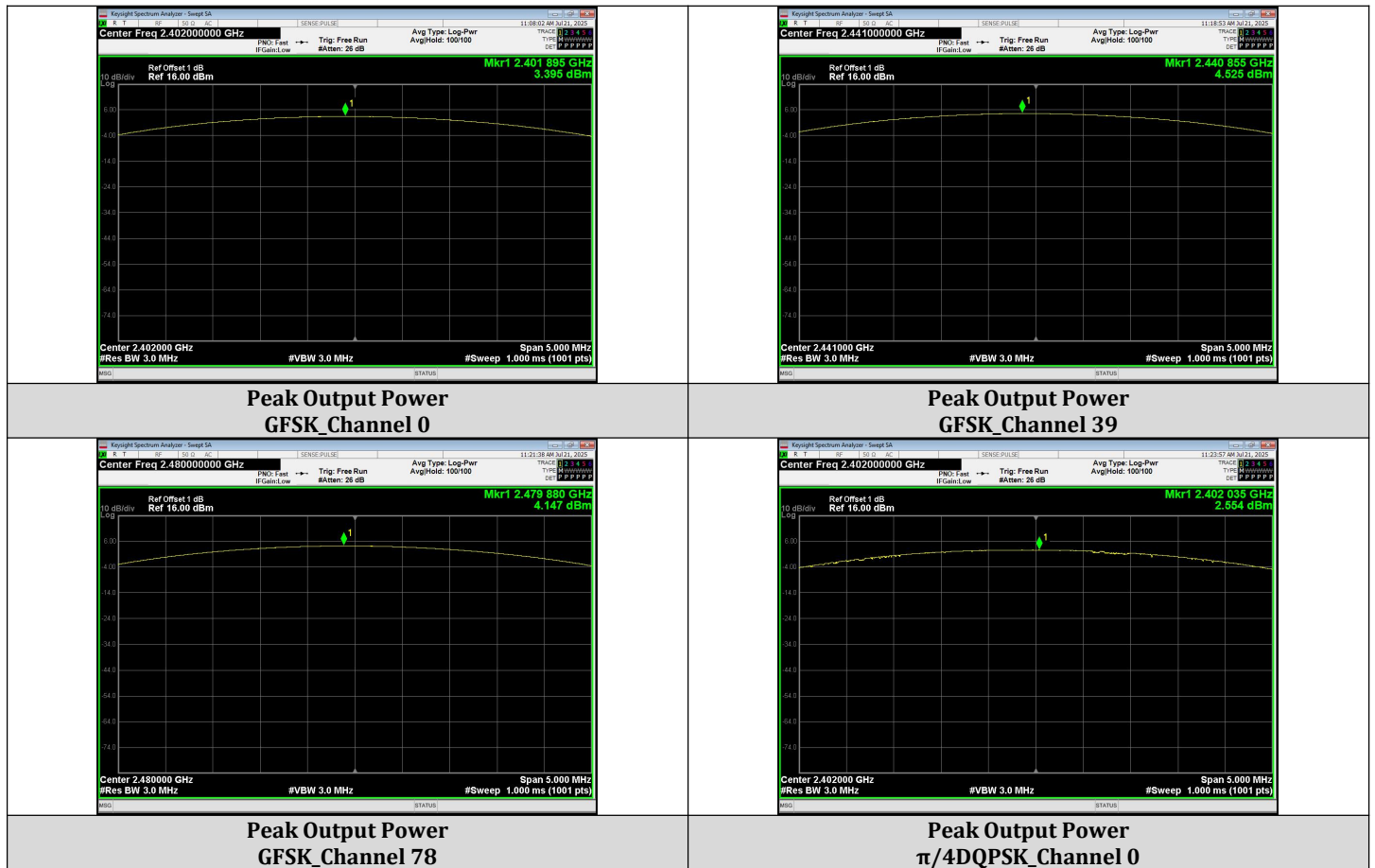


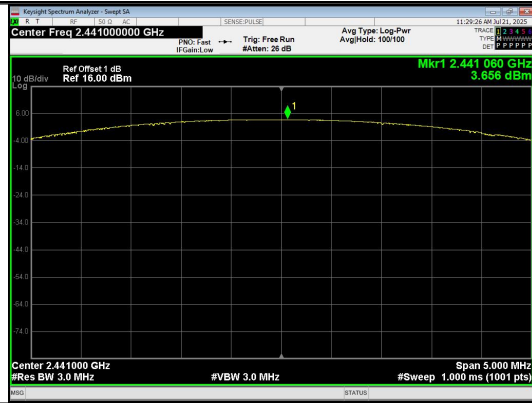
Conducted Output Power

Test Result

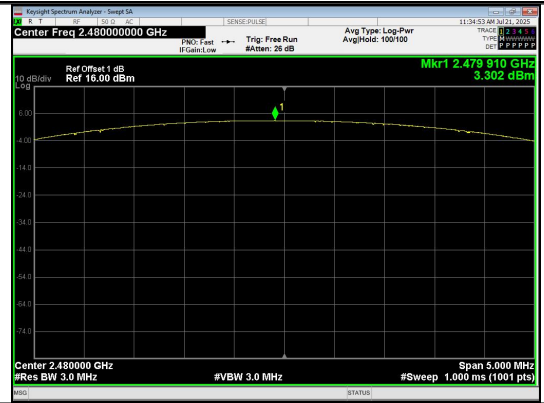
Modulation	Packet Type	Channel	Peak Output Power (dBm)	Peak Output Power (mW)	Limit (dBm)	Result
GFSK	DH5	0	3.40	2.19	≤30	PASS
		39	4.53	2.84		PASS
		78	4.15	2.60		PASS
$\pi/4$ DQPSK	2-DH5	0	2.55	1.80	≤20.97	PASS
		39	3.66	2.32		PASS
		78	3.30	2.14		PASS
8DPSK	3-DH5	0	2.66	1.85		PASS
		39	3.83	2.42		PASS
		78	3.39	2.18		PASS

Test Graphs

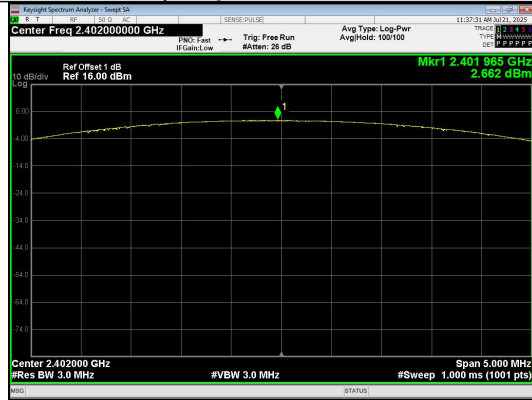




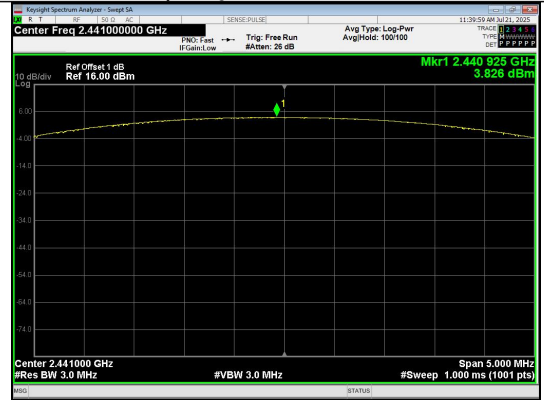
Peak Output Power
 $\pi/4$ DQPSK_Channel 39



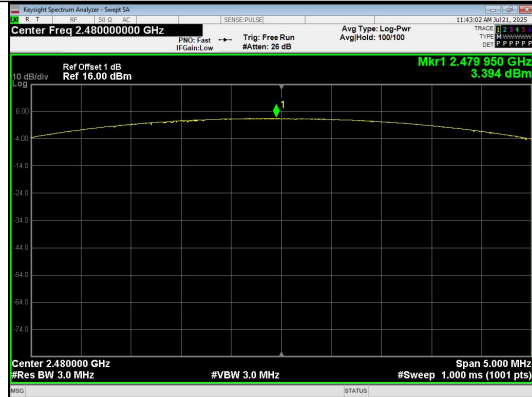
Peak Output Power
 $\pi/4$ DQPSK_Channel 78



Peak Output Power
8DPSK_Channel 0



Peak Output Power
8DPSK_Channel 39



Peak Output Power
8DPSK_Channel 78

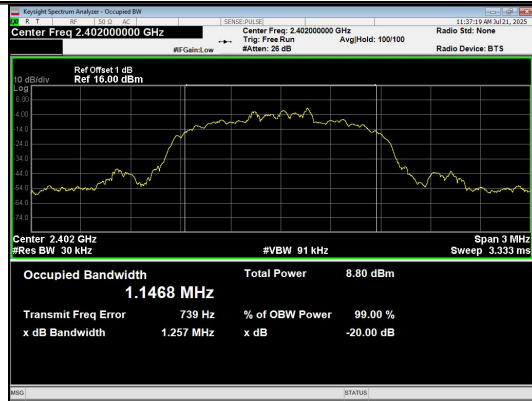
20dB Bandwidth

Test Result

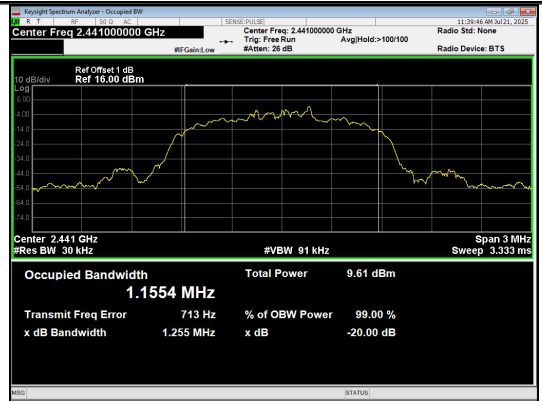
Modulation	Channel	Center Frequency (MHz)	20 dB Bandwidth (MHz)
GFSK	0	2402 MHz	0.8400
	39	2441 MHz	0.8400
	78	2480 MHz	0.8400
$\pi/4$ DQPSK	0	2402 MHz	1.260
	39	2441 MHz	1.280
	78	2480 MHz	1.260
8DPSK	0	2402 MHz	1.260
	39	2441 MHz	1.260
	78	2480 MHz	1.260

Test Graphs

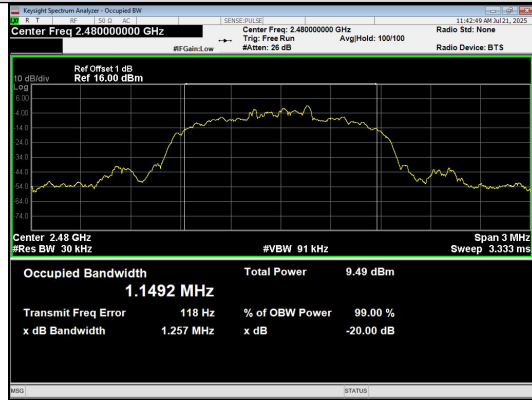




8DPSK_3-DH5_Channel 0



8DPSK_3-DH5_Channel 39



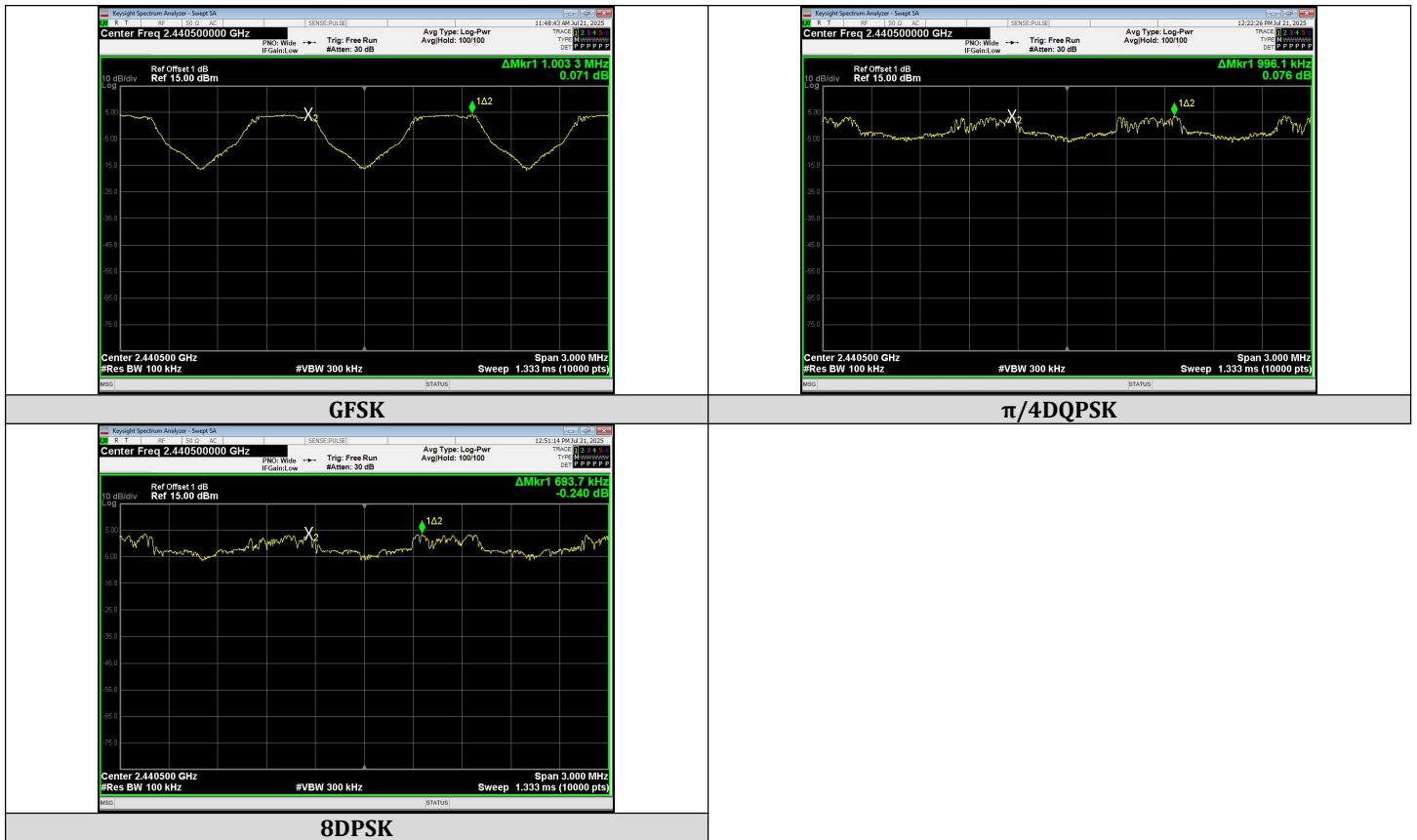
8DPSK_3-DH5_Channel 78

Carrier Frequencies Separation

Test Result

Modulation	Packet	Left Center frequency (MHz)	Right Center frequency (MHz)	Hopping Frequency Separation (MHz)	Limit (MHz)	Result
GFSK	DH5	2440.1566	2441.1599	1.0033	0.99	PASS
$\pi/4$ DQPSK	2-DH5	2440.1605	2441.1566	0.9961	0.99	PASS
8DPSK	3-DH5	2440.1596	2440.8533	0.6937	0.99	PASS

Test Graphs

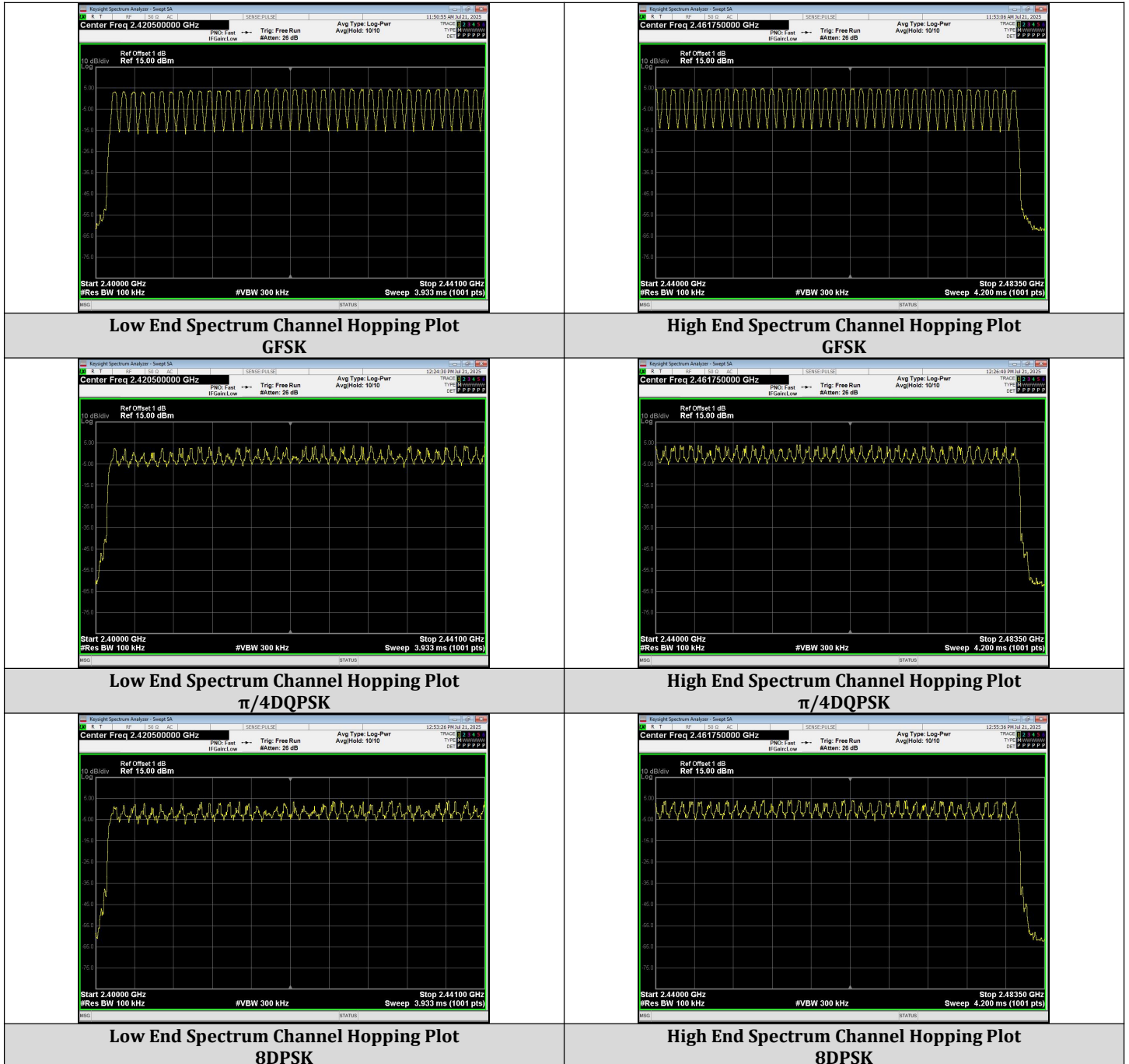


Number Of Hopping Channel

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

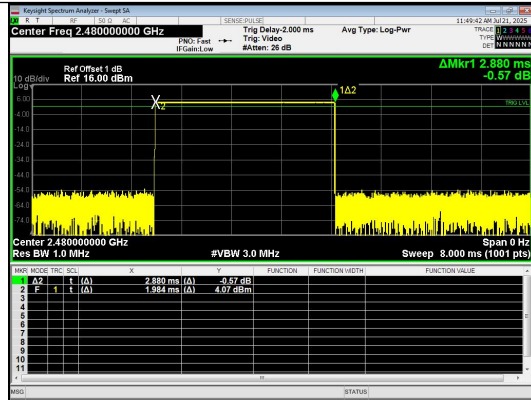


Dwell Time

Test Result

Modulation	Packet	Channel	Pulse Width (ms)	Number of Pulses in 31.6 seconds	Dwell Time (ms)	Limit (ms)	Result
GFSK	DH5	Hopping	2.880	103	296.64	< 400	PASS
$\pi/4$ DQPSK	2-DH5		2.896	101	292.5		PASS
8DPSK	3-DH5		2.880	112	322.56		PASS

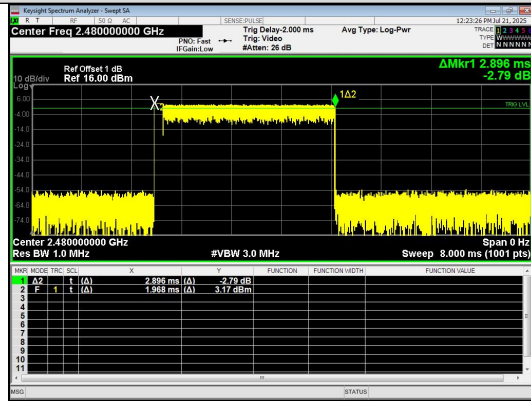
Test Graphs



Pulse Width
GFSK_DH5



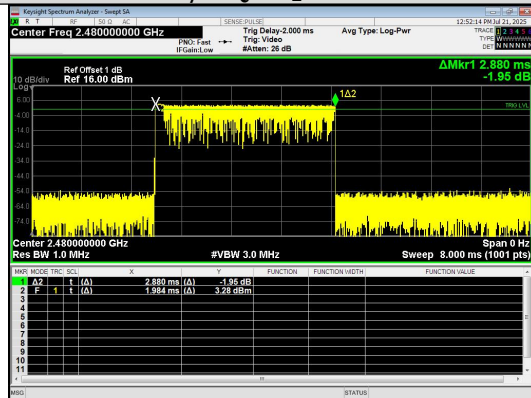
Number of Pulses in 31.6 seconds
GFSK_DH5



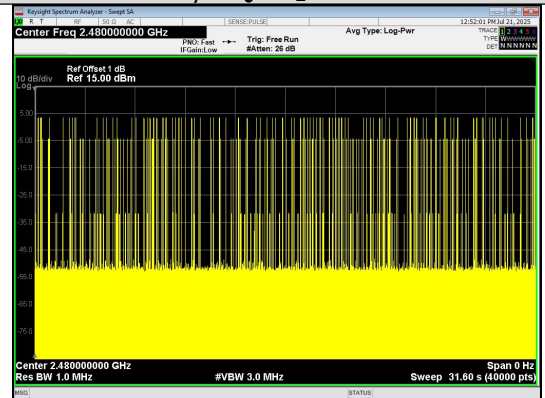
Pulse Width
 $\pi/4$ DQPSK_2-DH5



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	2400.00	-59.070	-16.84	-42.230	PASS
			24994.4	-49.448	-16.84	-32.608	PASS
		39	24985.0	-49.352	-15.55	-33.802	PASS
		78	2483.50	-60.410	-16.01	-44.400	PASS
			24913.2	-49.936	-16.01	-33.926	PASS
$\pi/4$ DQPSK	2-DH5	0	2400.00	-59.140	-17.54	-41.600	PASS
			24893.2	-49.058	-17.54	-31.518	PASS
		39	24976.9	-49.181	-16.49	-32.691	PASS
		78	2483.50	-60.960	-16.82	-44.140	PASS
			24779.0	-48.984	-16.82	-32.164	PASS
8DPSK	3-DH5	0	2400.00	-58.460	-17.75	-40.710	PASS
			24978.2	-49.385	-17.75	-31.635	PASS
		39	24968.2	-48.891	-16.34	-32.551	PASS
		78	2483.50	-61.910	-16.74	-45.170	PASS
			24931.3	-49.084	-16.74	-32.344	PASS

Hopping

Modulation	Packet	Channel	OOB Emission Frequency (MHz)	OOB Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result
GFSK	DH5	Hopping	2396.59	-59.560	-16.55	-43.010	PASS
			2400.00	-60.010	-16.55	-43.460	PASS
			2483.50	-60.470	-15.91	-44.560	PASS
π/4DQPSK	2-DH5		2397.50	-59.133	-17.42	-41.713	PASS
			2400.00	-59.660	-17.42	-42.240	PASS
			2483.50	-60.770	-16.81	-43.960	PASS
8DPSK	3-DH5		2400.00	-57.350	-17.38	-39.970	PASS
			2483.50	-61.960	-16.66	-45.300	PASS

Test Graphs

