

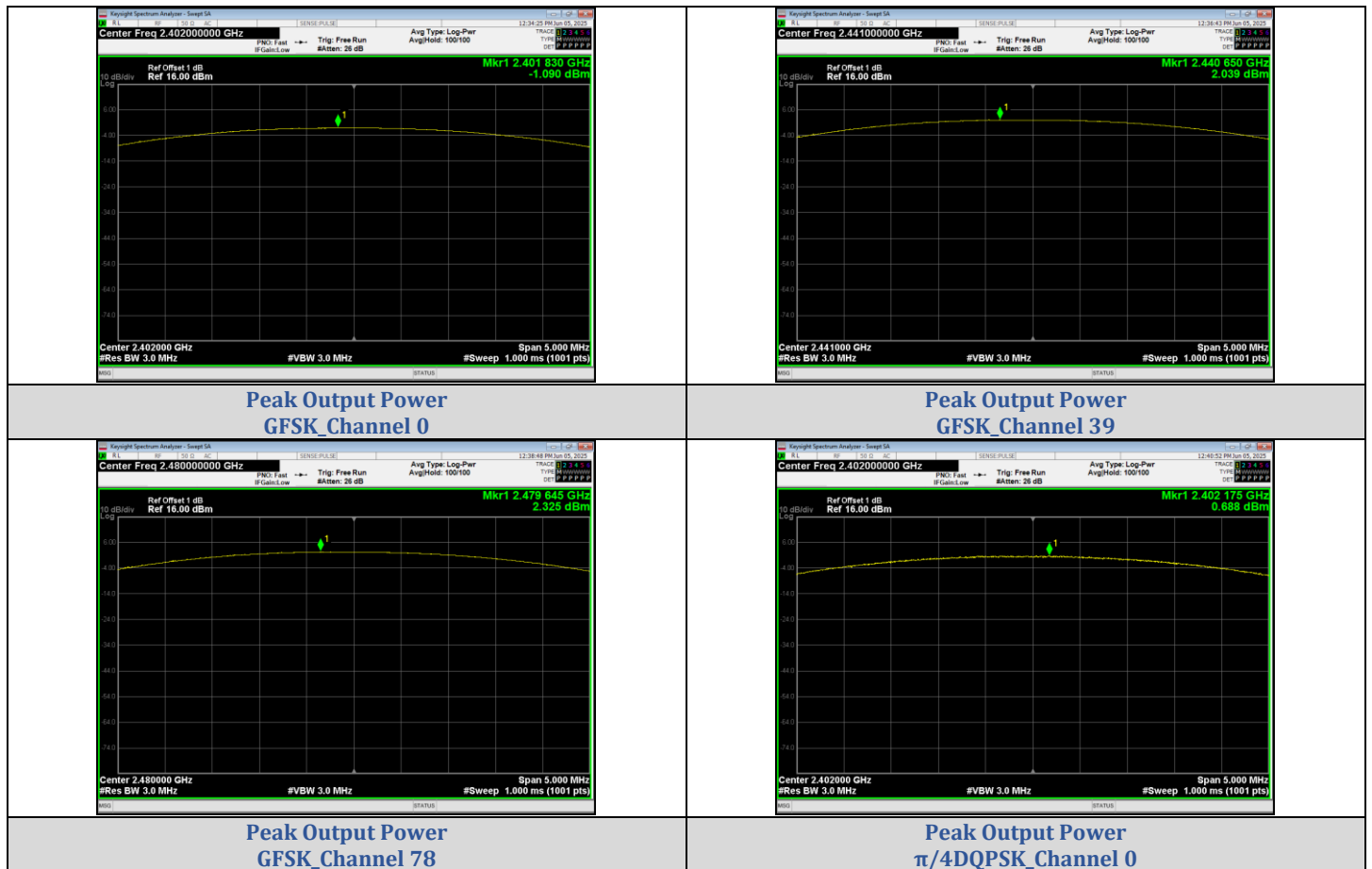


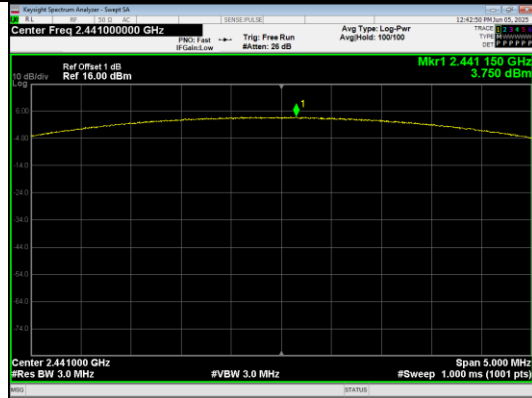
Conducted Output Power

Test Result

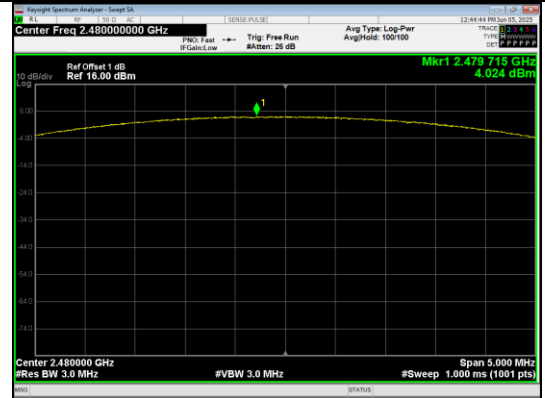
Modulation	Packet Type	Channel	Peak Output Power (dBm)	Peak Output Power (mW)	Max. Avg. Power (dBm)	Limit (dBm)	Result
GFSK	DH5	0	-1.09	0.78	-1.34	≤30	PASS
		39	2.04	1.60	1.83		PASS
		78	2.33	1.71	1.84		PASS
$\pi/4$ DQPSK	2-DH5	0	0.69	1.17	-2.42	≤20.97	PASS
		39	3.75	2.37	0.71		PASS
		78	4.02	2.53	0.93		PASS
8DPSK	3-DH5	0	1.15	1.30	-2.39		PASS
		39	4.21	2.63	0.74		PASS
		78	4.37	2.74	0.82		PASS

Test Graphs

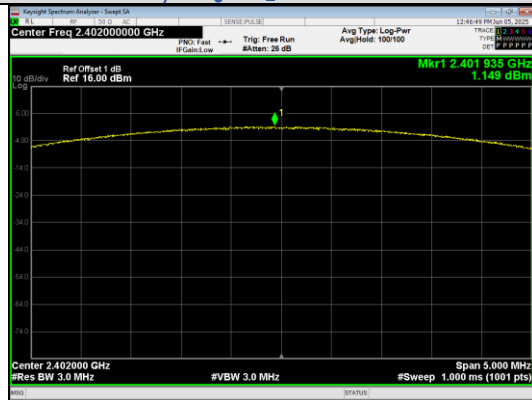




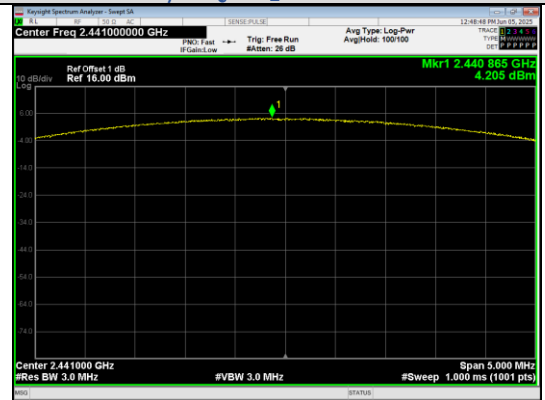
Peak Output Power
 $\pi/4$ DQPSK_Channel 39



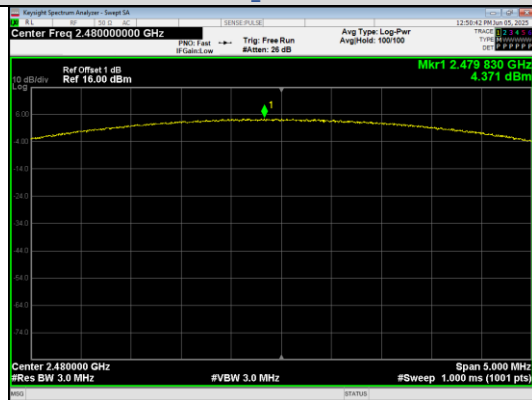
Peak Output Power
 $\pi/4$ DQPSK_Channel 78



Peak Output Power
8DPSK_Channel 0



Peak Output Power
8DPSK_Channel 39



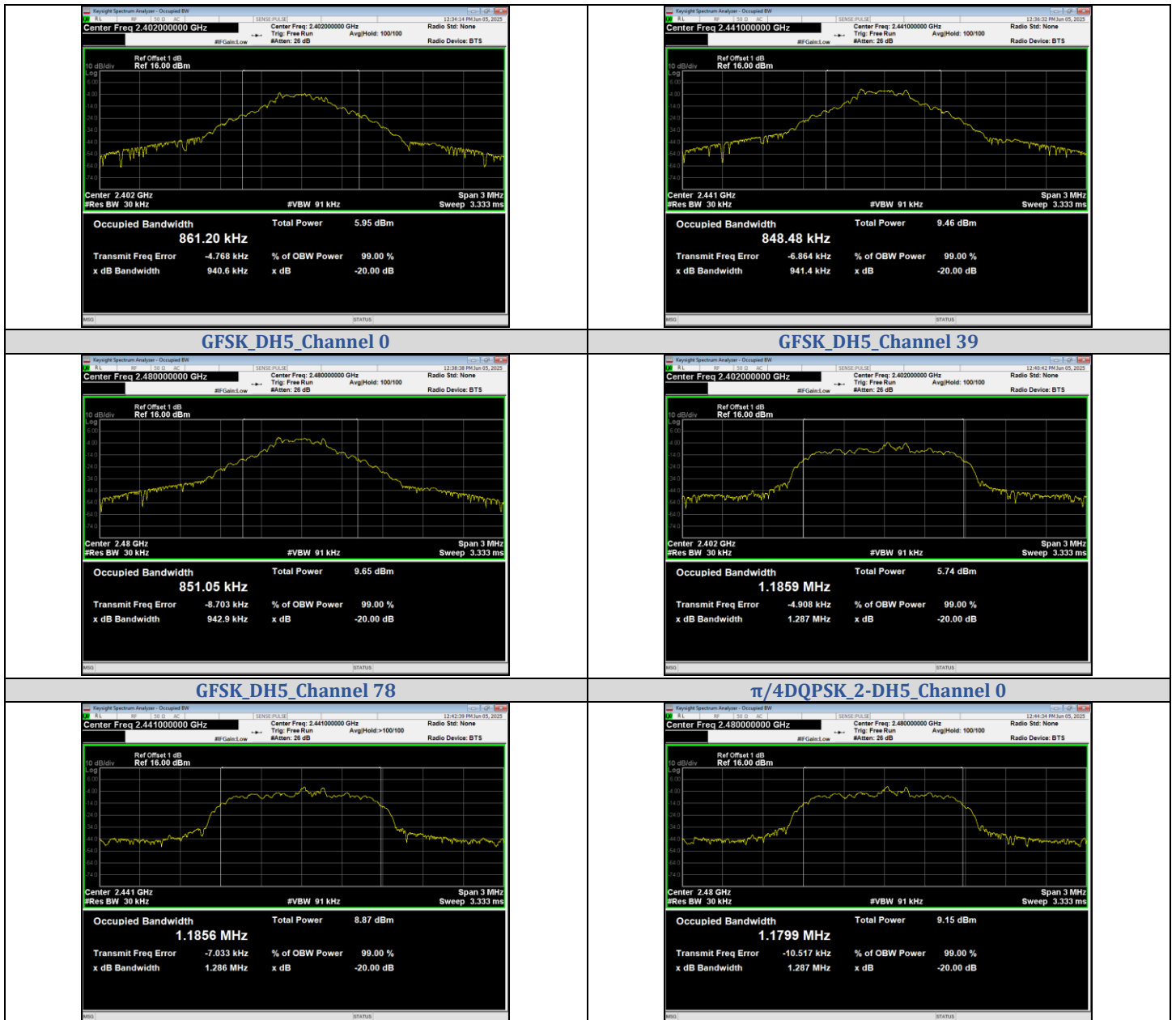
Peak Output Power
8DPSK_Channel 78

20dB Bandwidth

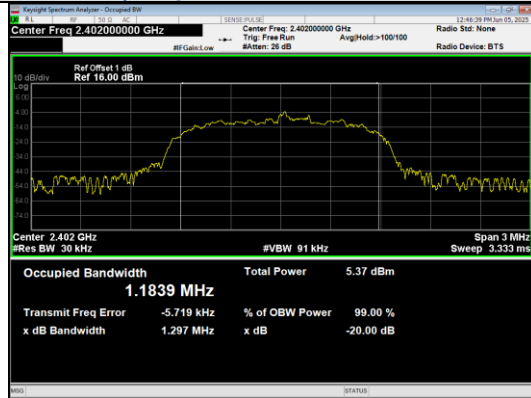
Test Result

Modulation	Channel	Center Frequency (MHz)	20 dB Bandwidth (MHz)
GFSK	0	2402 MHz	0.9406
	39	2441 MHz	0.9414
	78	2480 MHz	0.9429
$\pi/4$ DQPSK	0	2402 MHz	1.287
	39	2441 MHz	1.286
	78	2480 MHz	1.287
8DPSK	0	2402 MHz	1.297
	39	2441 MHz	1.299
	78	2480 MHz	1.299

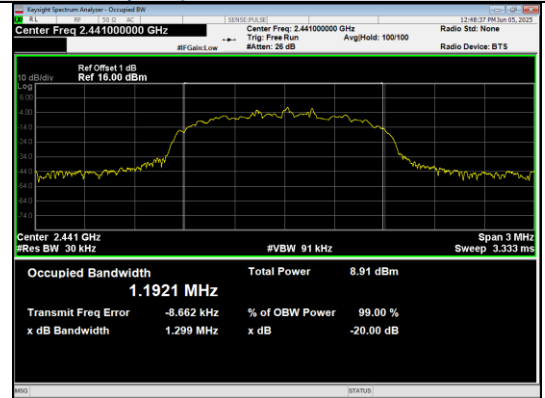
Test Graphs



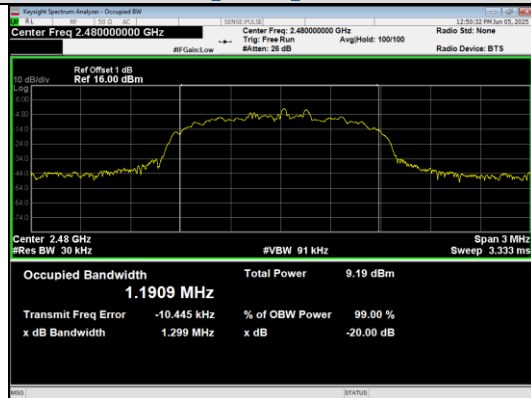
$\pi/4$ DQPSK 2-DH5_Channel 39



$\pi/4$ DQPSK 2-DH5_Channel 78



8DPSK 3-DH5_Channel 0



8DPSK 3-DH5_Channel 39

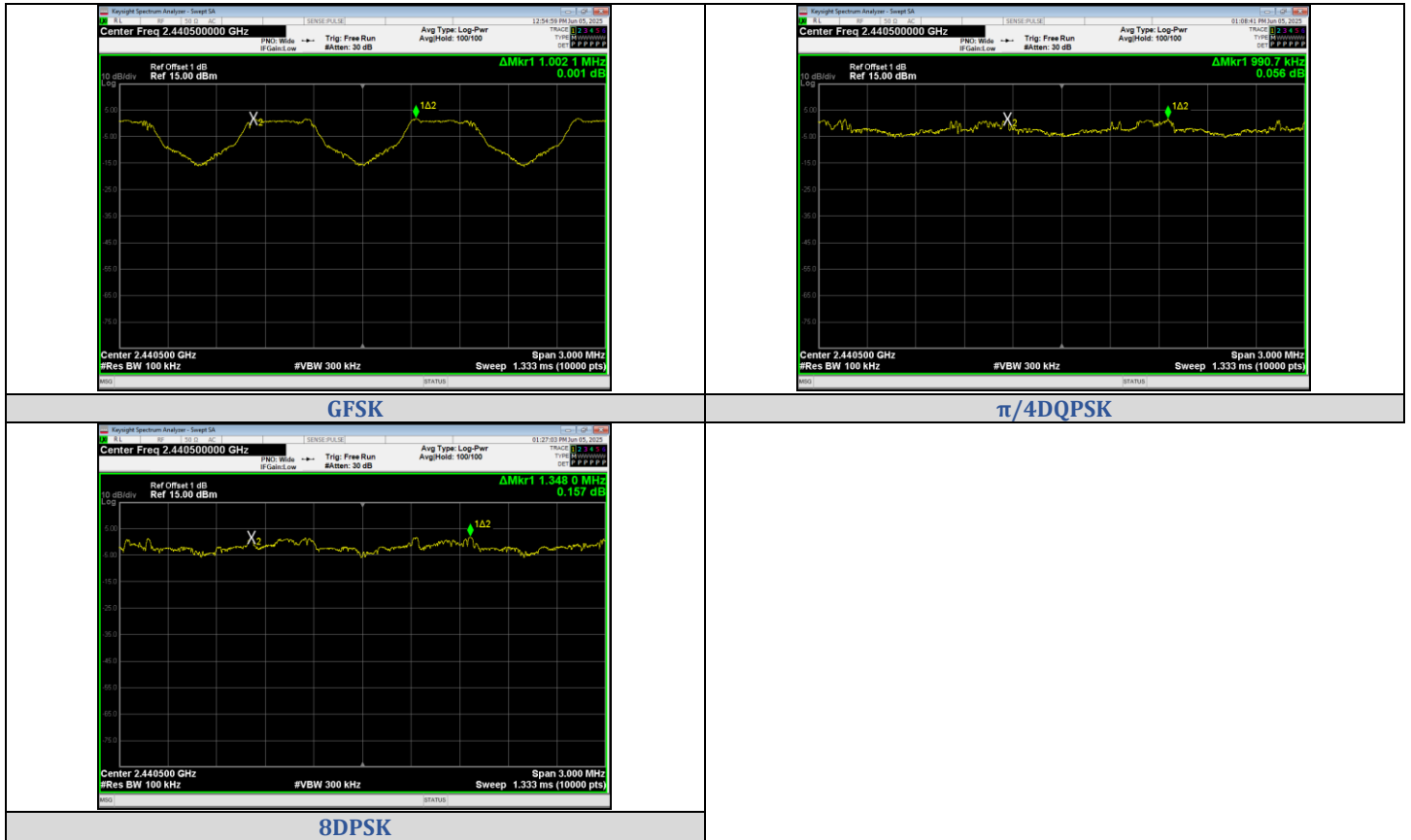
8DPSK 3-DH5_Channel 78

Carrier Frequencies Separation

Test Result

Modulation	Packet	Left Center frequency (MHz)	Right Center frequency (MHz)	Hopping Frequency Separation (MHz)	Limit (MHz)	Result
GFSK	DH5	2439.8272	2440.8293	1.0021	0.629	PASS
$\pi/4$ DQPSK	2-DH5	2440.1635	2441.1542	0.9907	0.858	PASS
8DPSK	3-DH5	2439.8155	2441.1635	1.3480	0.866	PASS

Test Graphs



Conducted Out Of Band Emission

Test Result

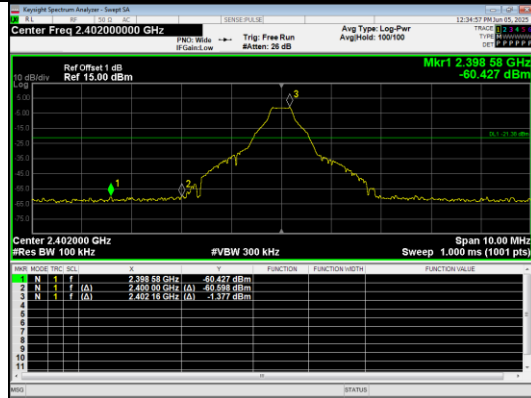
Non-Hopping

Modulation	Packet	Channel	OOB Emission Frequency (MHz)	OOB Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result
GFSK	DH5	0	2398.58	-60.427	-21.38	-39.047	PASS
			2400.00	-60.598	-21.38	-39.218	PASS
			24893.3	-50.040	-21.38	-28.660	PASS
		39	24960.7	-49.946	-18.18	-31.766	PASS
		78	2483.50	-62.412	-17.96	-44.452	PASS
			24930.1	-50.075	-17.96	-32.114	PASS
$\pi/4$ DQPSK	2-DH5	0	2398.40	-60.348	-21.49	-38.858	PASS
			2400.00	-60.361	-21.49	-38.871	PASS
			24995.0	-49.940	-21.49	-28.450	PASS
		39	24722.8	-50.633	-18.41	-32.223	PASS
		78	2483.50	-59.851	-18.16	-41.691	PASS
			24926.3	-49.763	-18.16	-31.603	PASS
8DPSK	3-DH5	0	2397.40	-60.422	-21.46	-38.962	PASS
			2400.00	-61.230	-21.46	-39.770	PASS
			24988.8	-49.847	-21.46	-28.387	PASS
		39	24874.5	-49.093	-18.37	-30.723	PASS
		78	2483.50	-61.432	-18.14	-43.292	PASS
			24914.5	-49.358	-18.14	-31.218	PASS

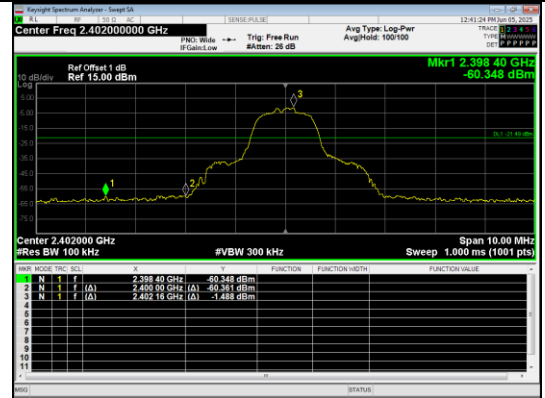
Hopping

Modulation	Packet	Channel	OOB Emission Frequency (MHz)	OOB Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result
GFSK	DH5	Hopping	2396.54	-60.369	-21.16	-39.209	PASS
			2400.00	-61.389	-21.16	-40.229	PASS
			2483.50	-62.969	-17.92	-45.049	PASS
$\pi/4$ DQPSK	2-DH5		2397.21	-61.010	-21.23	-39.780	PASS
			2400.00	-61.479	-21.23	-40.249	PASS
			2483.50	-62.015	-18.06	-43.955	PASS
8DPSK	3-DH5		2395.78	-60.272	-21.26	-39.012	PASS
			2400.00	-61.670	-21.26	-40.410	PASS
			2483.50	-62.590	-18.46	-44.130	PASS

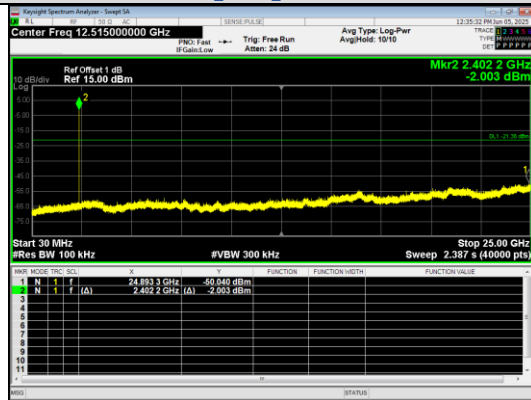
Test Graphs



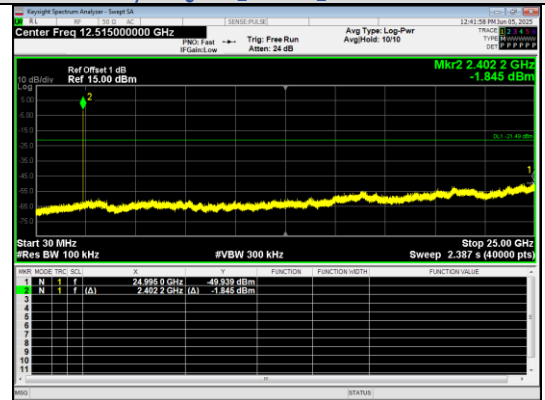
Out Of Band Emission
GFSK_DH5_Channel 0



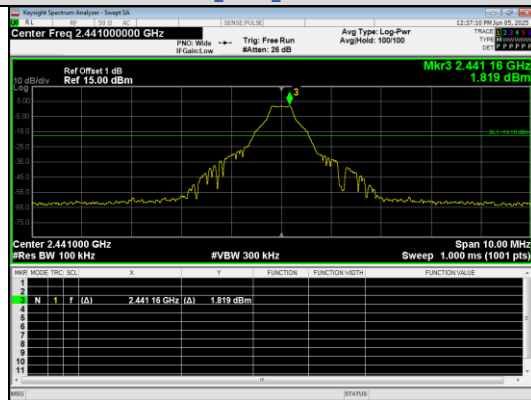
Out Of Band Emission
 $\pi/4$ DQPSK_2-DH5_Channel 0



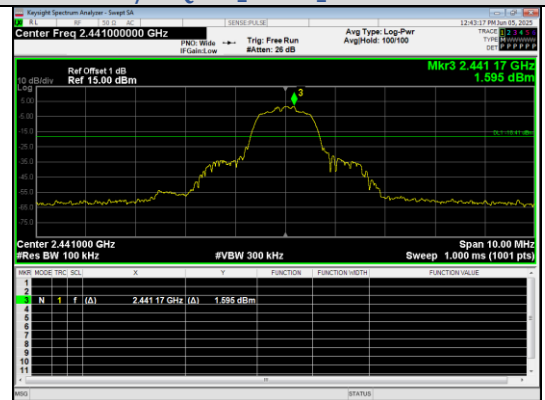
30.0 MHz - 25000.0 MHz
GFSK_DH5_Channel 0



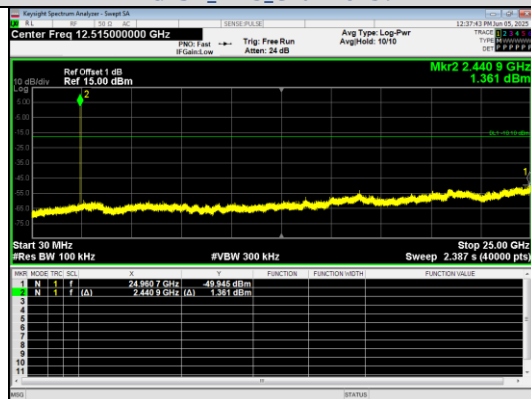
30.0 MHz - 25000.0 MHz
 $\pi/4$ DQPSK_2-DH5_Channel 0



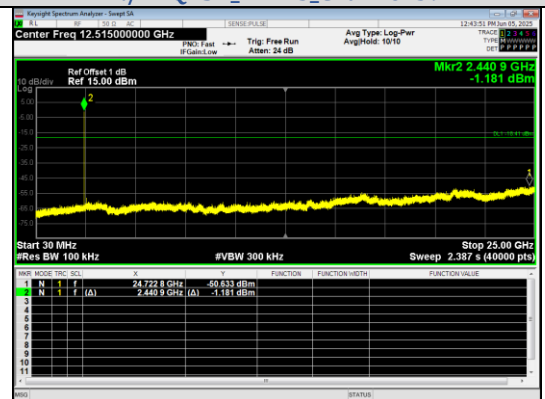
Out Of Band Emission
GFSK_DH5_Channel 39



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

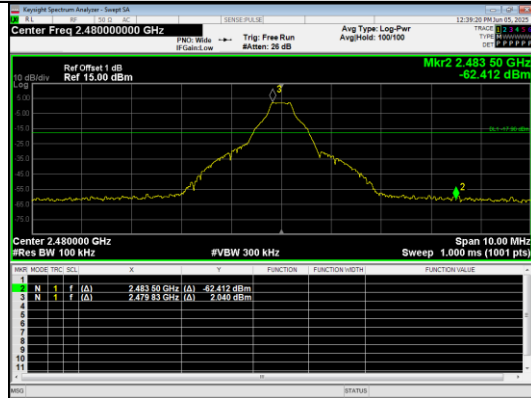
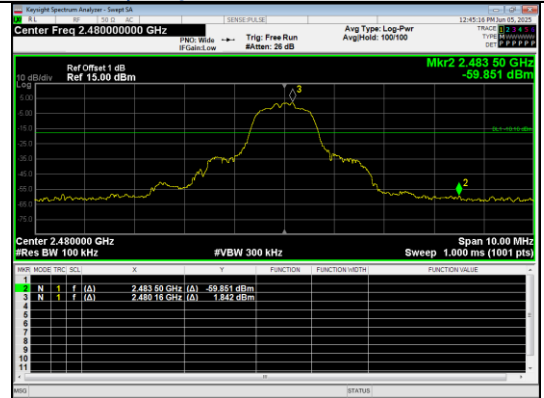
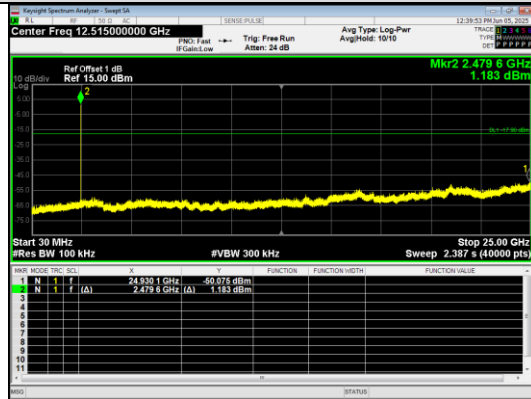
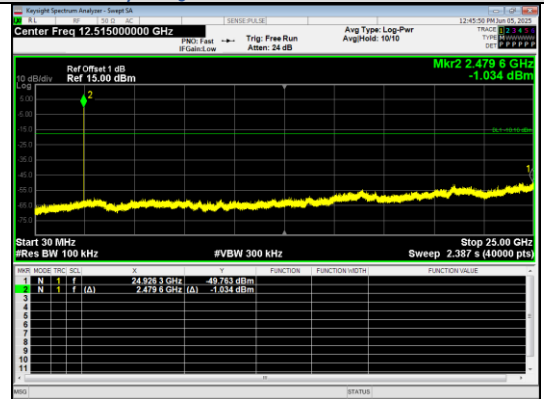


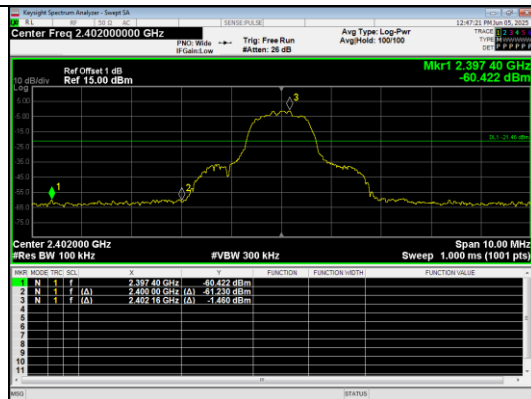
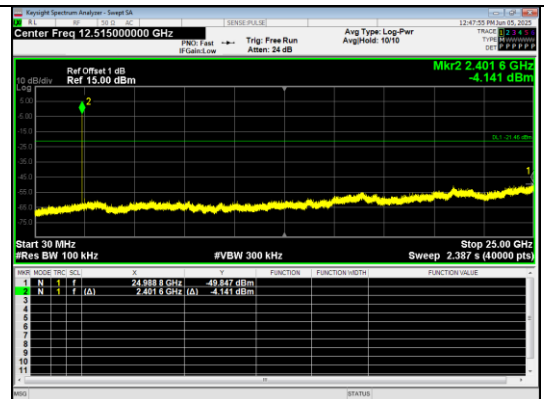
30.0 MHz - 25000.0 MHz

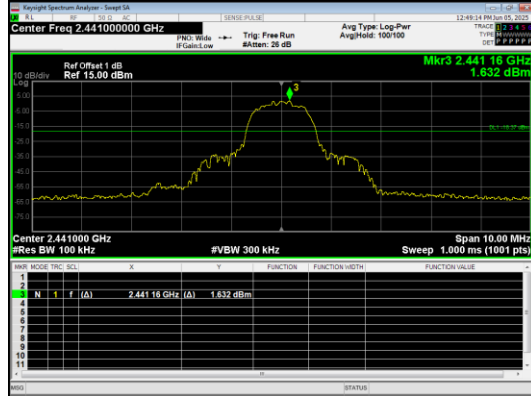


30.0 MHz - 25000.0 MHz

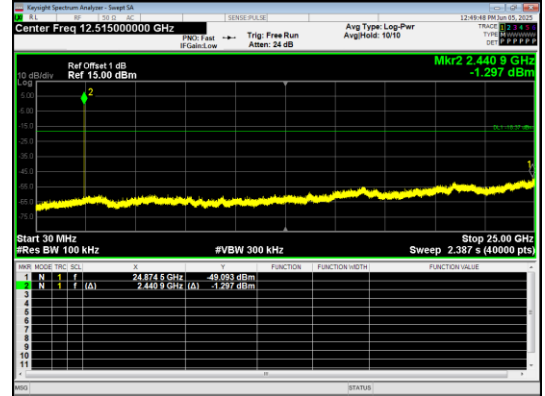
GFSK_DH5_Channel 39


 $\pi/4$ 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

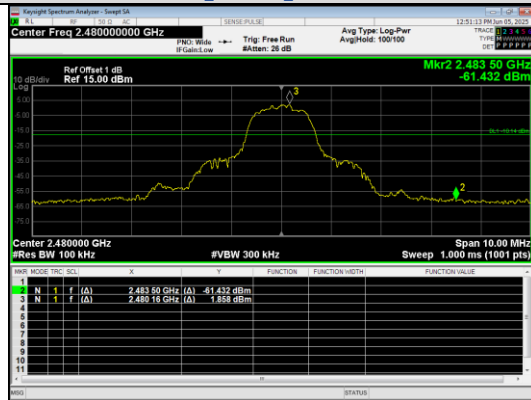
30.0 MHz - 25000.0 MHz
 $\pi/4$ DQPSK_2-DH5_Channel 78

Out Of Band Emission
8DPSK_3-DH5_Channel 0

30.0 MHz - 25000.0 MHz
8DPSK_3-DH5_Channel 0



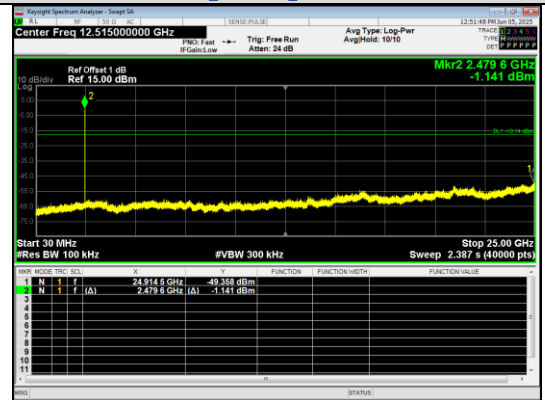
Out Of Band Emission
8DPSK_3-DH5_Channel 39



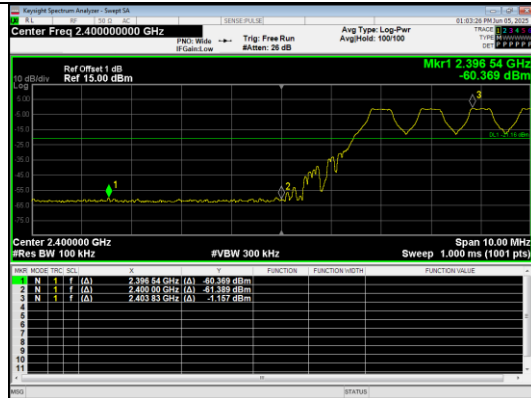
30.0 MHz - 25000.0 MHz
8DPSK_3-DH5_Channel 39



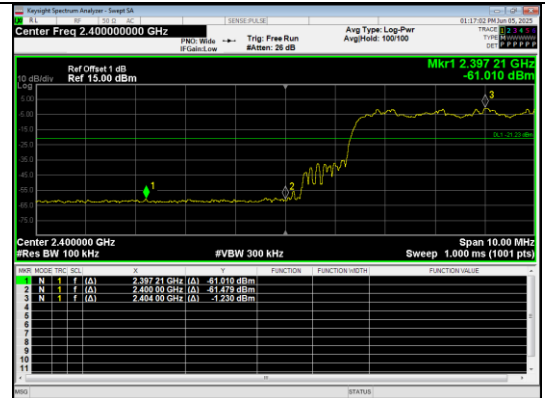
Out Of Band Emission
8DPSK_3-DH5_Channel 78



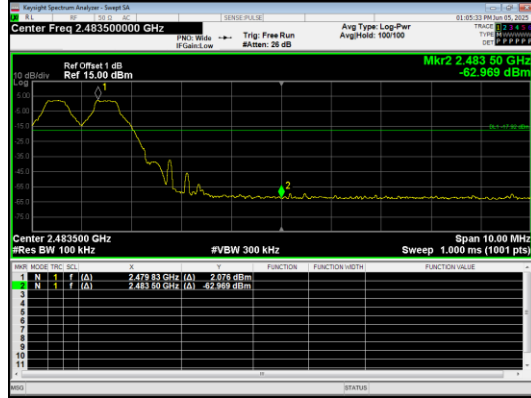
30.0 MHz - 25000.0 MHz
8DPSK_3-DH5_Channel 78



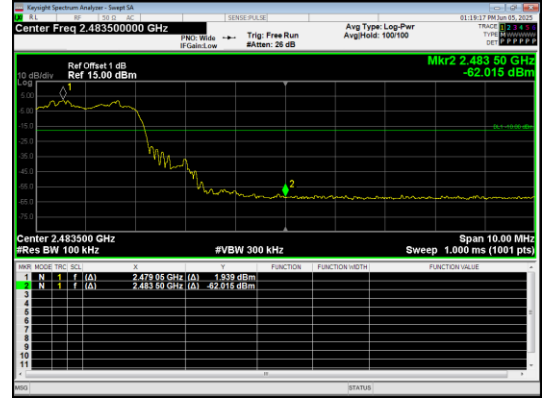
Out Of Band Emission(Left)
GFSK_DH5_Channel Hopping



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

Duty Cycle

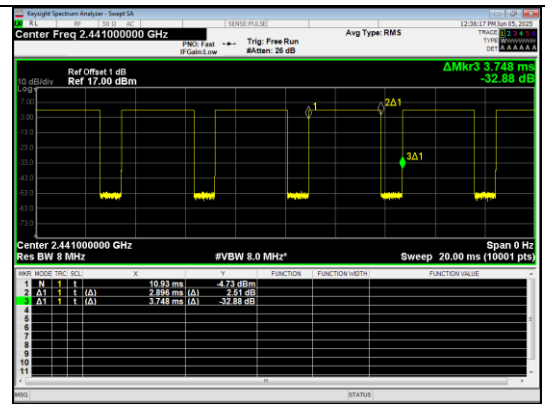
Test Result

Modulation	Packets	Channel	On Time (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle (linear)	Duty Cycle Factor (dB)	1/T
GFSK	DH5	0	2.894	3.748	77.21	0.7721	1.1233	0.3455
		39	2.896	3.748	77.27	0.7727	1.1199	0.3453
		78	2.894	3.748	77.21	0.7721	1.1233	0.3455
$\pi/4$ DQPSK	2-DH5	0	2.882	3.748	76.89	0.7689	1.1413	0.3470
		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	2.884	3.748	76.95	0.7695	1.1379	0.3467
		78	2.882	3.748	76.89	0.7689	1.1413	0.3470

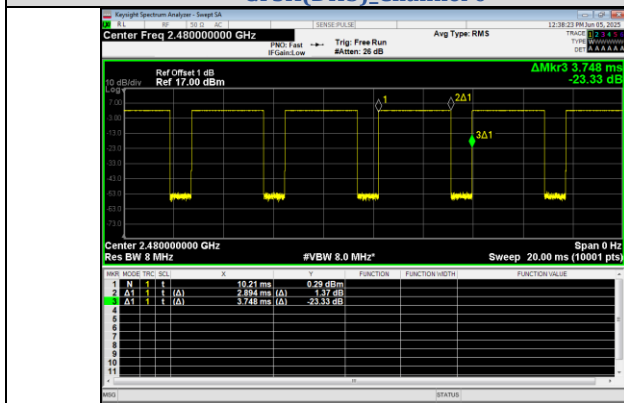
Test Graphs



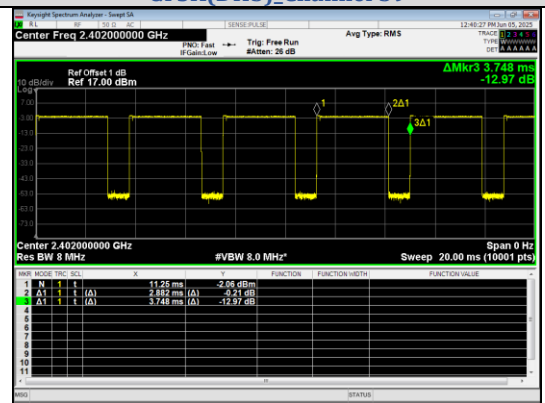
GFSK(DH5)_Channel 0



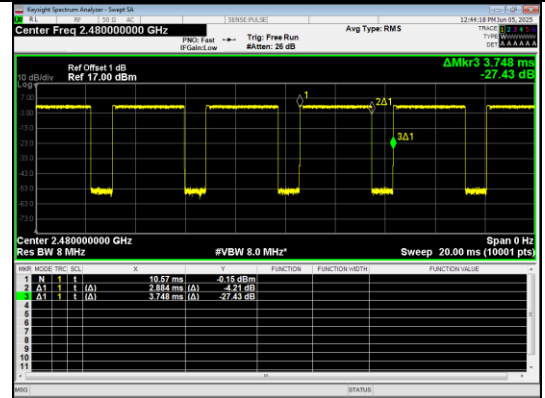
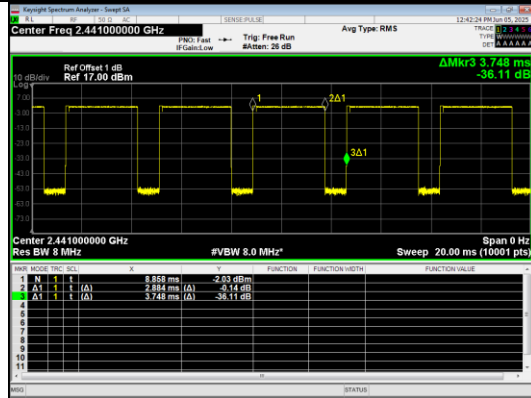
GFSK(DH5)_Channel 39



GFSK(DH5)_Channel 78

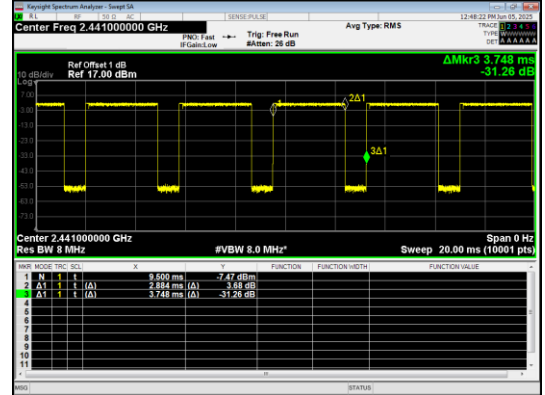
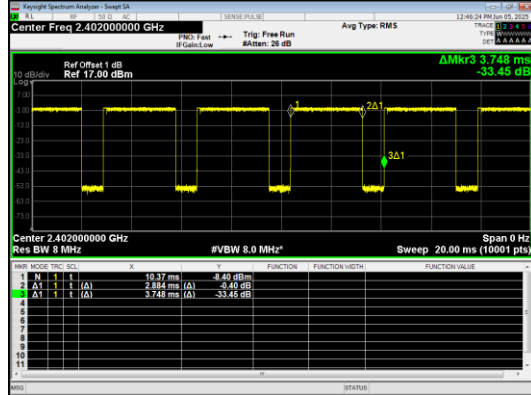


$\pi/4$ DQPSK(2-DH5)_Channel 0



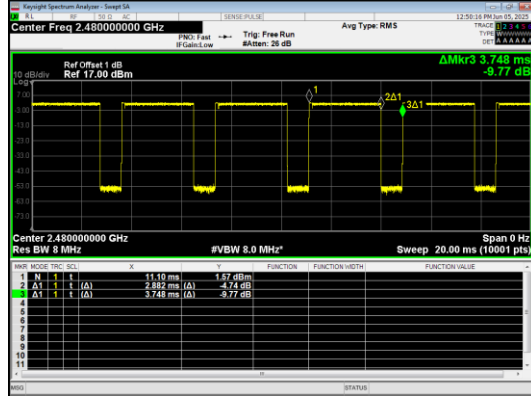
$\pi/4$ DQPSK(2-DH5)_Channel 39

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



8DPSK(3-DH5)_Channel 0

8DPSK(3-DH5)_Channel 39



8DPSK(3-DH5)_Channel 78



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)	2.896	95	275.12	< 400	PASS
$\pi/4$ DQPSK	2-DH5		2.880	103	296.64		PASS
8DPSK	3-DH5		2.880	103	296.64		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

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

