

RF Conducted Test -

appendix III Bluetooth_(Class Bluetooth)_Test data.

E.U.T:	CD PLAYER
Model Number:	SYITREN R200
Sample ID	33000279329
Sample(s) Status:	Engineer sample
Date of Receipt:	2026.06.01
Date of Test:	2026.07.08 ~ 2026.07.09
FCC ID:	2BFHV-R200
Report No.	2026060193771770-00
Tester	Hugh Zhang

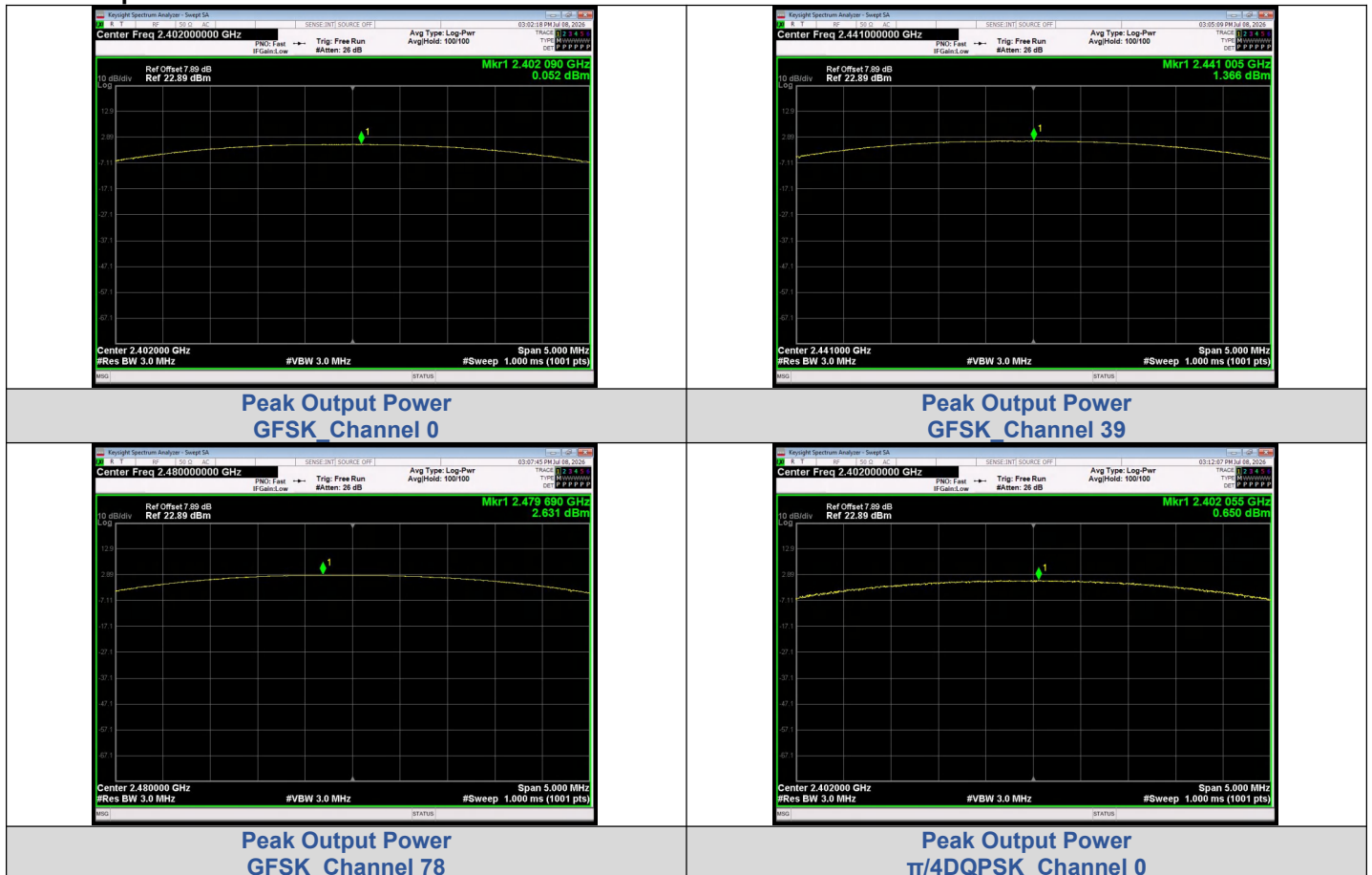
A.1 CONDUCTED OUTPUT POWER

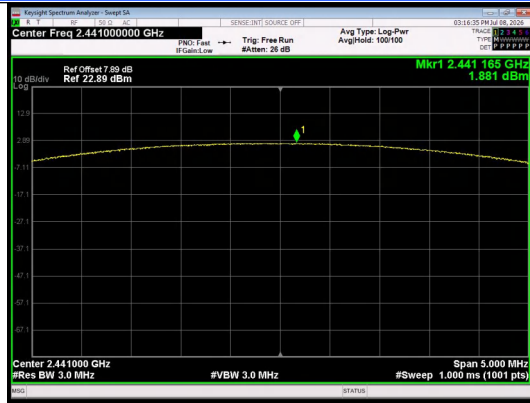
Test Result

Modulation	Packet Type	Channel	Peak Output Power (dBm)	Peak Output Power (mW)	Max. Avg. Power (dBm)	Limit	Result
GFSK	DH1	0	0.05	1.01	None	0.125w	PASS
		39	1.37	1.37	None		PASS
		78	2.63	1.83	None		PASS
π/4DQPSK	2-DH1	0	0.65	1.16	None		PASS
		39	1.88	1.54	None		PASS
		78	3.01	2.00	None		PASS
8DPSK	3-DH1	0	1.12	1.29	None		PASS
		39	2.29	1.69	None		PASS
		78	3.30	2.14	None		PASS

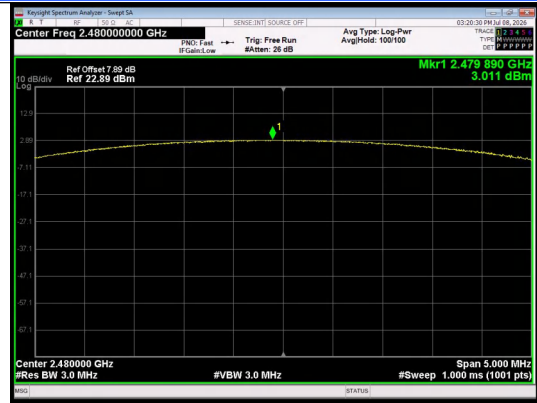
Modulation	Packet Type	Channel	Peak Output Power (dBm)	Peak Power Limit	ISED EIRP (dBm)	ISED EIRP Limit (dBm)	Max. Avg. Power (dBm)	Result
GFSK	DH1	0	0.05	0.125w	0.052	≤ 36.02	None	PASS
		39	1.37	0.125w	1.366	≤ 36.02	None	PASS
		78	2.63	0.125w	2.631	≤ 36.02	None	PASS
π /4DQPSK	2-DH1	0	0.65	0.125w	0.650	≤ 36.02	None	PASS
		39	1.88	0.125w	1.881	≤ 36.02	None	PASS
		78	3.01	0.125w	3.011	≤ 36.02	None	PASS
8DPSK	3-DH1	0	1.12	0.125w	1.121	≤ 36.02	None	PASS
		39	2.29	0.125w	2.291	≤ 36.02	None	PASS
		78	3.30	0.125w	3.296	≤ 36.02	None	PASS

Test Graphs

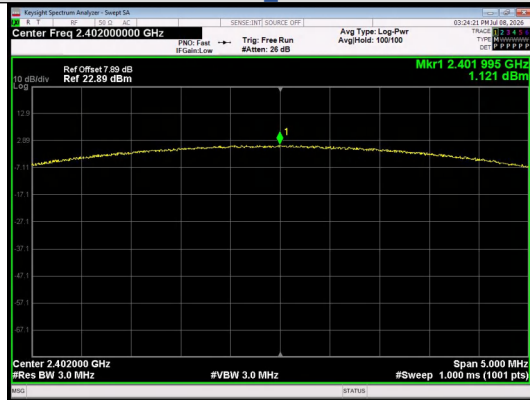




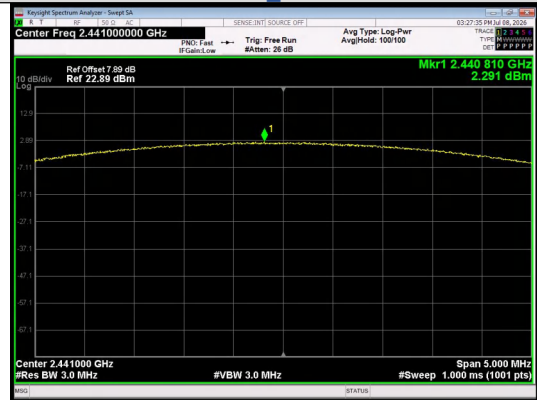
Peak Output Power
π/4DQPSK_Channel 39



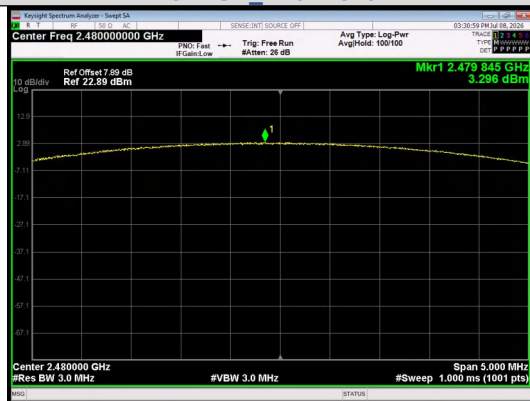
Peak Output Power
π/4DQPSK_Channel 78



Peak Output Power
8DPSK_Channel 0



Peak Output Power
8DPSK_Channel 39



Peak Output Power
8DPSK_Channel 78

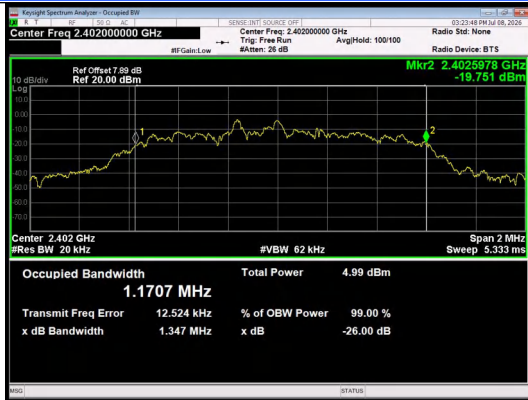
A.2 99% BANDWIDTH

Test Result

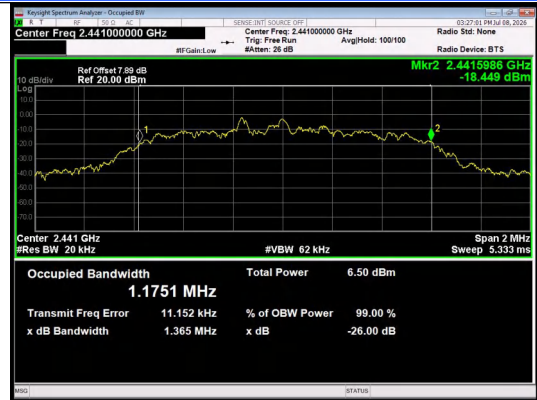
Modulation	Channel	Center Frequency (MHz)	99% BW (MHz)
GFSK	0	2402	0.92262
	39	2441	0.94692
	78	2480	0.97564
$\pi/4$ DQPSK	0	2402	1.1793
	39	2441	1.1958
	78	2480	1.2186
8DPSK	0	2402	1.1707
	39	2441	1.1751
	78	2480	1.1879

Test Graphs

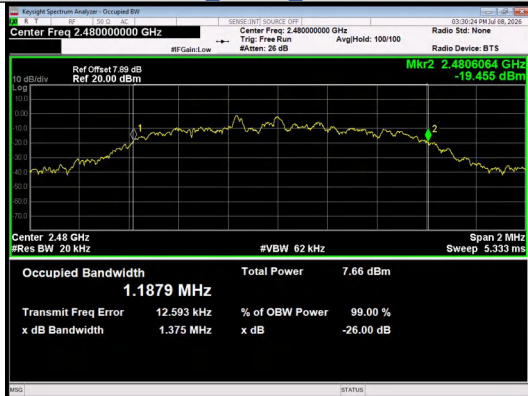




8DPSK_3-DH1_Channel 0



8DPSK_3-DH1_Channel 39



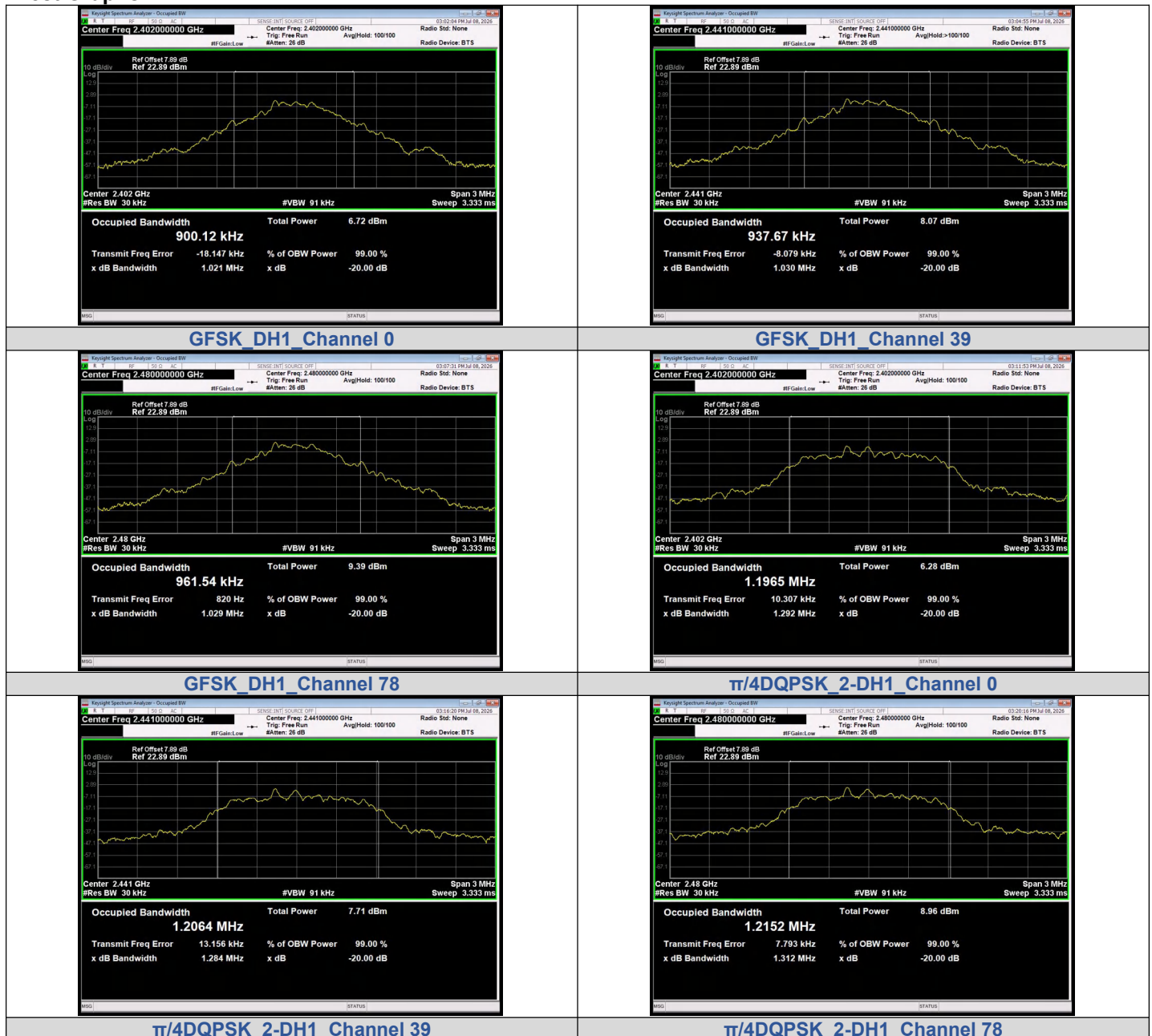
8DPSK_3-DH1_Channel 78

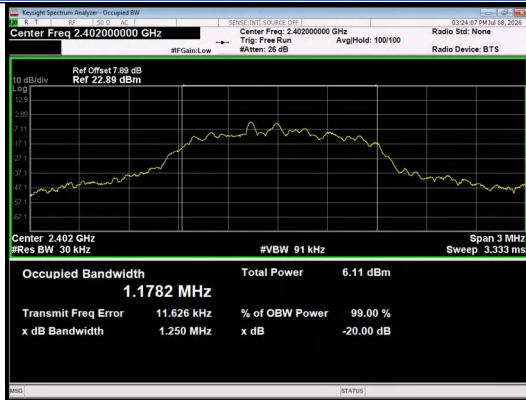
A.3 20DB BANDWIDTH

Test Result

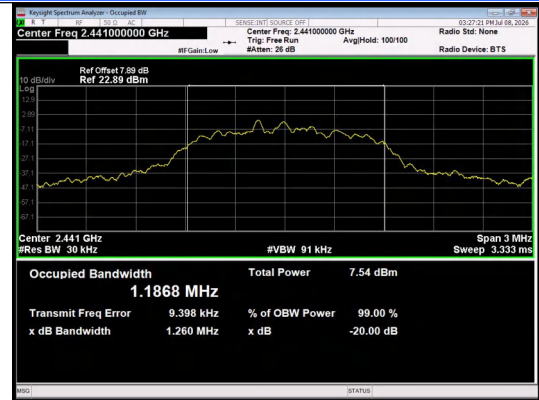
Modulation	Channel	Center Frequency (MHz)	20 dB Bandwidth (MHz)
GFSK	0	2402 MHz	1.021
	39	2441 MHz	1.030
	78	2480 MHz	1.029
π /4DQPSK	0	2402 MHz	1.292
	39	2441 MHz	1.284
	78	2480 MHz	1.312
8DPSK	0	2402 MHz	1.250
	39	2441 MHz	1.260
	78	2480 MHz	1.264

Test Graphs

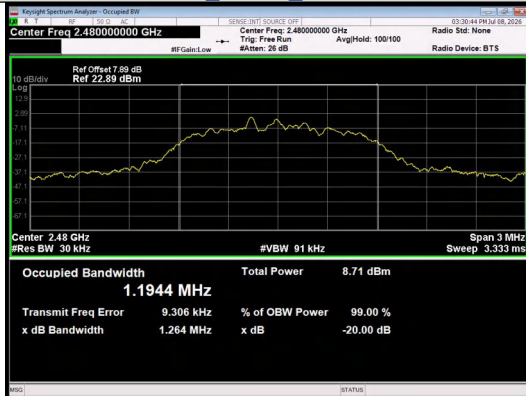




8DPSK_3-DH1_Channel 0



8DPSK_3-DH1_Channel 39



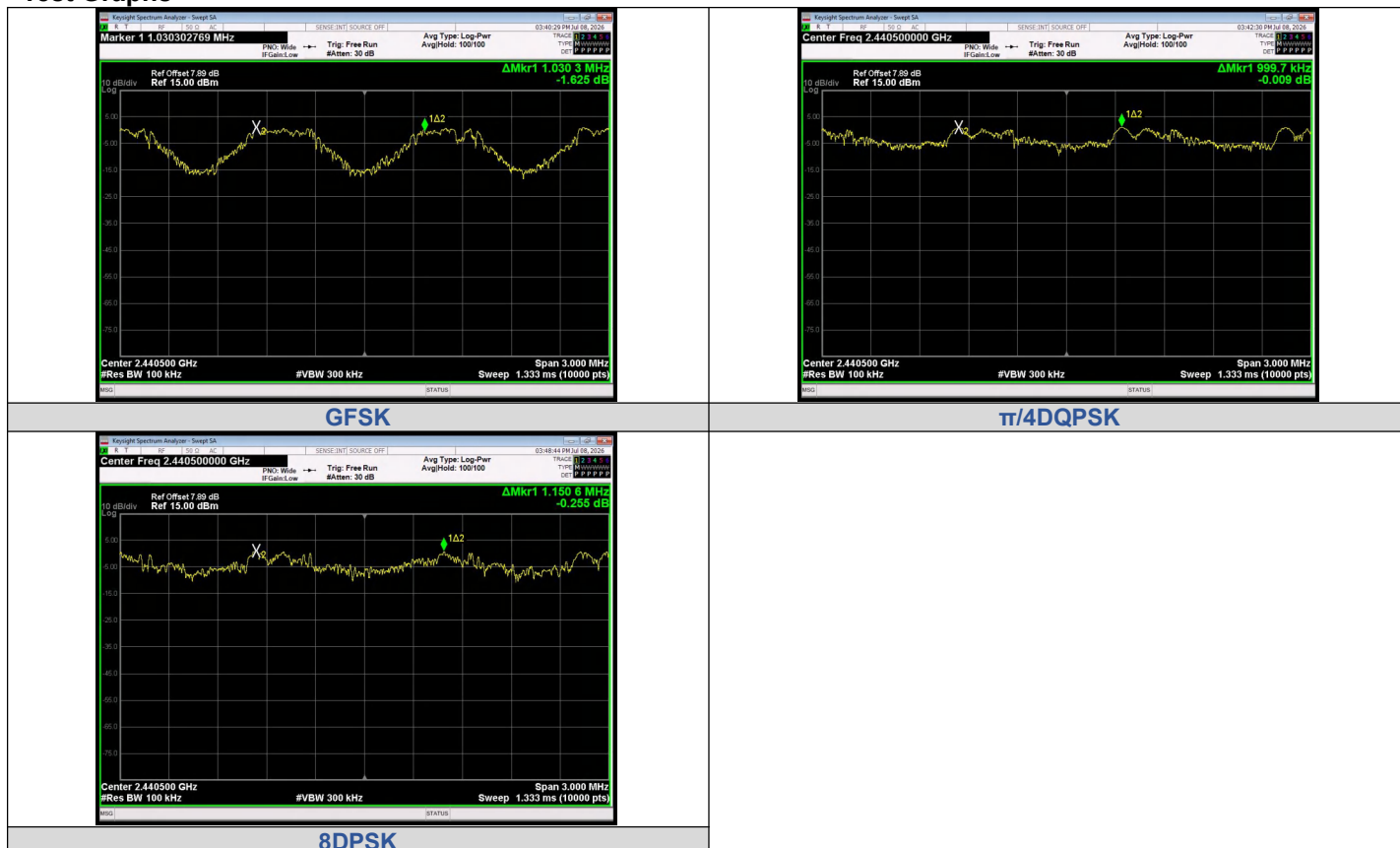
8DPSK_3-DH1_Channel 78

A.4 CARRIER FREQUENCIES SEPARATION

Test Result

Modulation	Packet	Left Center frequency (MHz)	Right Center frequency (MHz)	Hopping Frequency Separation (MHz)	Minimum Limit (MHz)	Result
GFSK	DH1	1.0303	2439.8374	2438.8071	1.03	PASS
$\pi/4$ DQPSK	2-DH1	2439.8395	2440.8392	0.9997	0.875	PASS
8DPSK	3-DH1	2439.8359	2440.9865	1.1506	0.843	PASS

Test Graphs



A.5 CONDUCTED SPURIOUS & BAND EDGE EMISSION

Test Result

Non-Hopping

Modulation	Packet	Channel	OOB Emission Frequency (MHz)	OOB Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result
GFSK	DH1	0	2400.00	-48.668	-20.3	-28.368	PASS
			2498.28	-52.082	-20.3	-31.782	PASS
			4804.26	-65.228	-20.3	-44.928	PASS
			7205.75	-65.623	-20.3	-45.323	PASS
			9607.87	-67.357	-20.3	-47.057	PASS
		39	2488.92	-53.070	-19.01	-34.060	PASS
			4881.05	-67.113	-19.01	-48.103	PASS
			7323.11	-59.841	-19.01	-40.831	PASS
			9764.55	-68.410	-19.01	-49.400	PASS
		78	2483.50	-55.080	-17.75	-37.330	PASS
			2576.32	-52.127	-17.75	-34.377	PASS
			4960.95	-66.644	-17.75	-48.894	PASS
			7439.85	-55.868	-17.75	-38.118	PASS
			9920.62	-68.533	-17.75	-50.783	PASS
π /4DQPSK	2-DH1	0	2400.00	-48.048	-20.42	-27.628	PASS
			2498.28	-53.655	-20.42	-33.235	PASS
			4803.02	-65.436	-20.42	-45.016	PASS
			7206.38	-67.225	-20.42	-46.805	PASS
			9607.87	-64.204	-20.42	-43.784	PASS
		39	2488.92	-55.301	-19.03	-36.271	PASS
			4882.30	-67.124	-19.03	-48.094	PASS
			7323.11	-59.717	-19.03	-40.687	PASS
			9763.93	-68.983	-19.03	-49.953	PASS
		78	2483.50	-55.461	-17.86	-37.601	PASS
			2574.44	-52.460	-17.86	-34.600	PASS
			4959.70	-66.744	-17.86	-48.884	PASS
			7439.85	-62.778	-17.86	-44.918	PASS
			9919.37	-70.100	-17.86	-52.240	PASS
8DPSK	3-DH1	0	2400.00	-49.119	-20.45	-28.669	PASS
			2497.66	-53.168	-20.45	-32.718	PASS
			4804.26	-64.279	-20.45	-43.829	PASS
			7206.38	-66.377	-20.45	-45.927	PASS
			9607.87	-65.462	-20.45	-45.012	PASS
		39	2536.99	-51.509	-19.09	-32.419	PASS
			4882.30	-66.597	-19.09	-47.507	PASS
			7322.49	-63.174	-19.09	-44.084	PASS
			9763.93	-66.747	-19.09	-47.657	PASS
		78	2483.50	-53.100	-17.95	-35.150	PASS
			2528.25	-52.826	-17.95	-34.876	PASS
			4959.08	-66.989	-17.95	-49.039	PASS
			7439.22	-59.491	-17.95	-41.541	PASS
			9919.99	-65.969	-17.95	-48.019	PASS

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

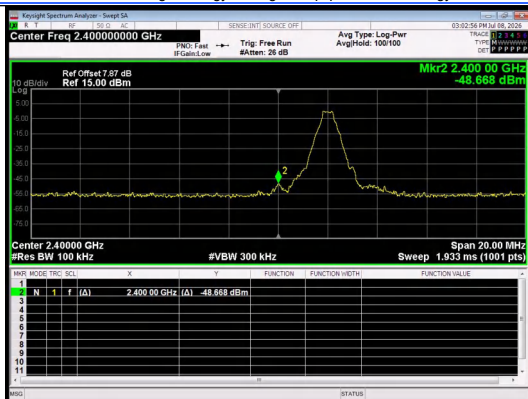
Test Graphs



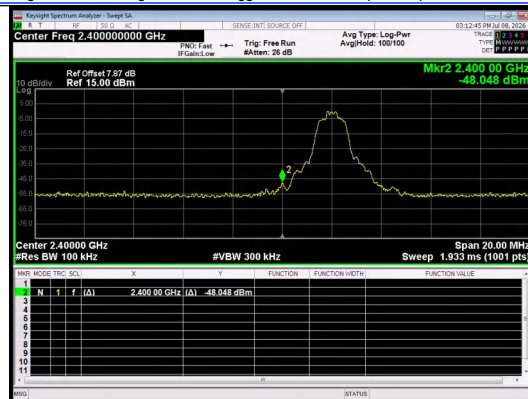
In-Band Reference Level
GFSK_DH1_Channel 0



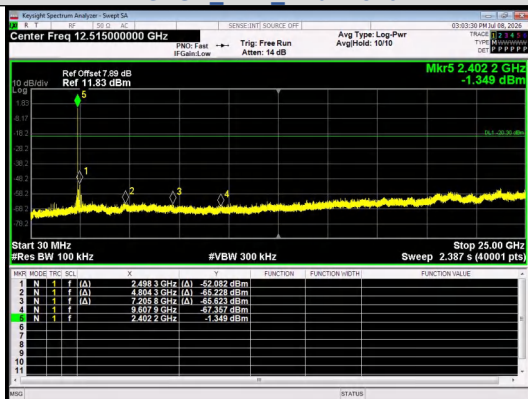
In-Band Reference Level
 π /4DQPSK_2-DH1_Channel 0



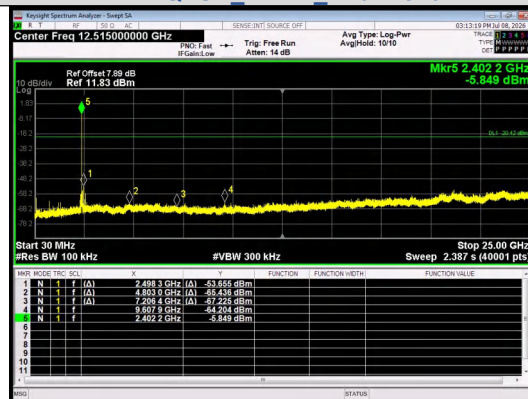
**Out Of Band Emission
GFSK_DH1_Channel 0**



**Out Of Band Emission
 $\pi/4$ DQPSK_2-DH1_Channel 0**



**30.0 MHz - 25000.0 MHz
GFSK_DH1_Channel 0**



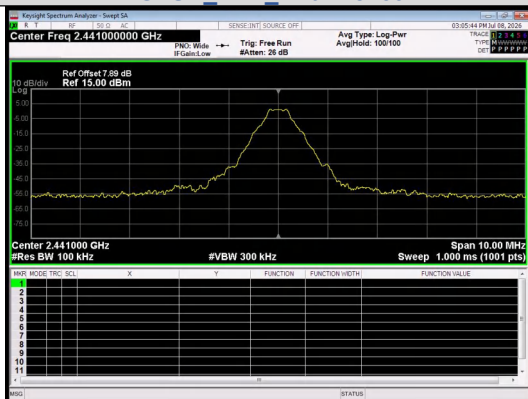
**30.0 MHz - 25000.0 MHz
 $\pi/4$ DQPSK_2-DH1_Channel 0**



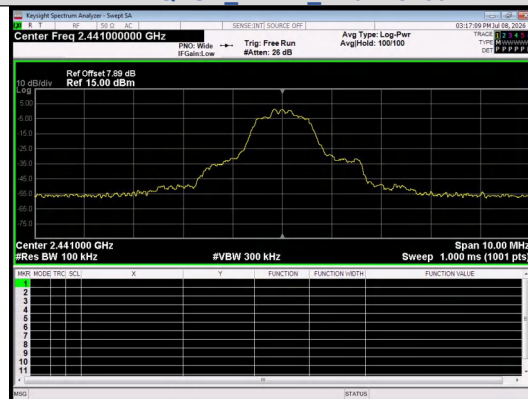
**In-Band Reference Level
GFSK_DH1_Channel 39**



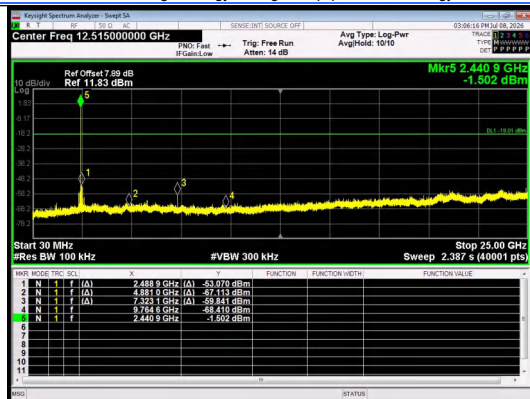
**In-Band Reference Level
 $\pi/4$ DQPSK_2-DH1_Channel 39**



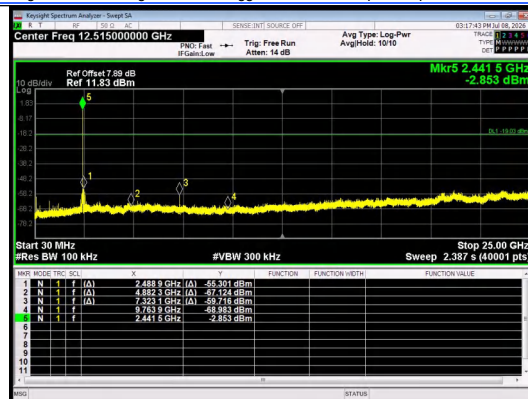
**Out Of Band Emission
GFSK_DH1_Channel 39**



**Out Of Band Emission
 $\pi/4$ DQPSK_2-DH1_Channel 39**



30.0 MHz - 25000.0 MHz
GFSK_DH1_Channel 39



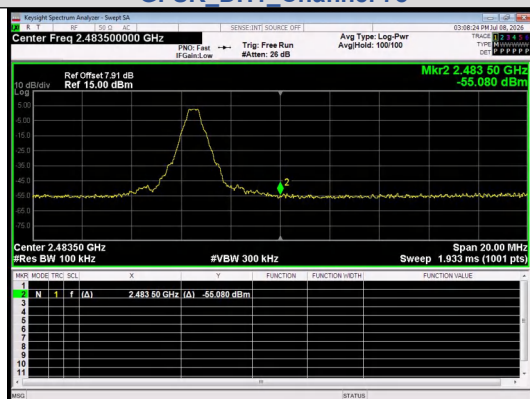
30.0 MHz - 25000.0 MHz
 $\pi/4$ DQPSK_2-DH1_Channel 39



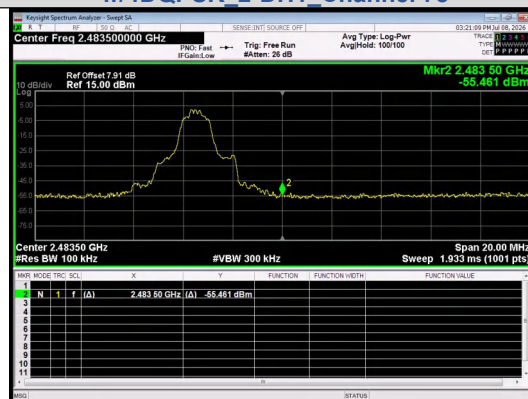
In-Band Reference Level
GFSK_DH1_Channel 78



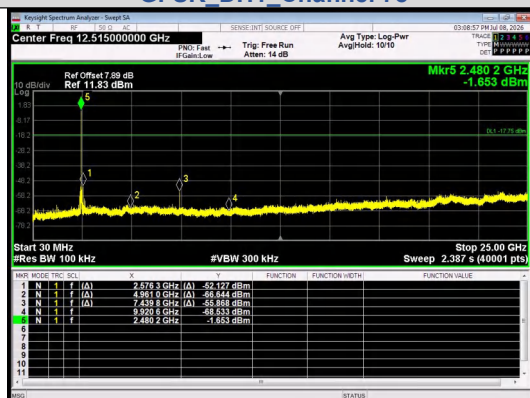
In-Band Reference Level
 $\pi/4$ DQPSK_2-DH1_Channel 78



Out Of Band Emission
GFSK_DH1_Channel 78



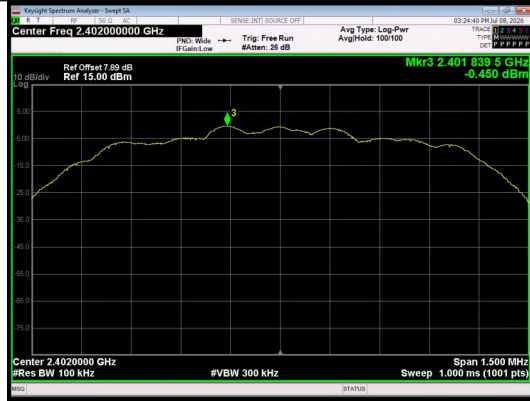
Out Of Band Emission
 $\pi/4$ DQPSK_2-DH1_Channel 78



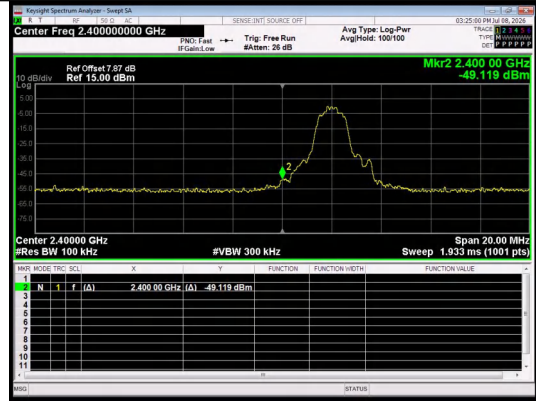
30.0 MHz - 25000.0 MHz
GFSK_DH1_Channel 78



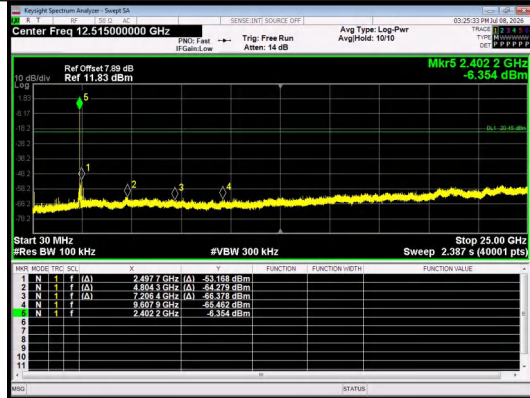
30.0 MHz - 25000.0 MHz
 $\pi/4$ DQPSK_2-DH1_Channel 78



**In-Band Reference Level
8DPSK_3-DH1_Channel 0**



**Out Of Band Emission
8DPSK_3-DH1_Channel 0**



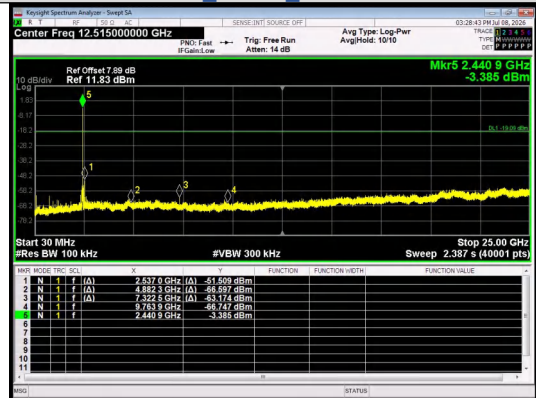
**30.0 MHz - 25000.0 MHz
8DPSK_3-DH1_Channel 0**



**In-Band Reference Level
8DPSK_3-DH1_Channel 39**



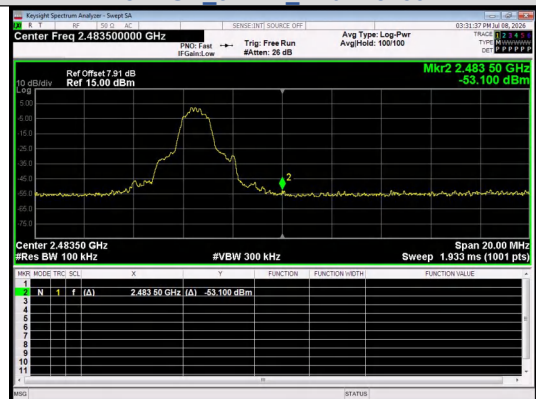
**Out Of Band Emission
8DPSK_3-DH1_Channel 39**



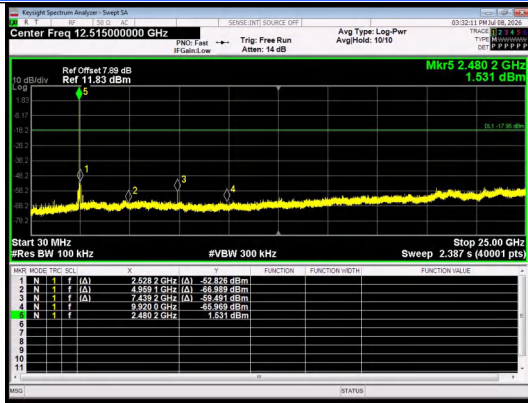
**30.0 MHz - 25000.0 MHz
8DPSK_3-DH1_Channel 39**



**In-Band Reference Level
8DPSK_3-DH1_Channel 78**



**Out Of Band Emission
8DPSK_3-DH1_Channel 78**



30.0 MHz - 25000.0 MHz
8DPSK_3-DH1_Channel 78

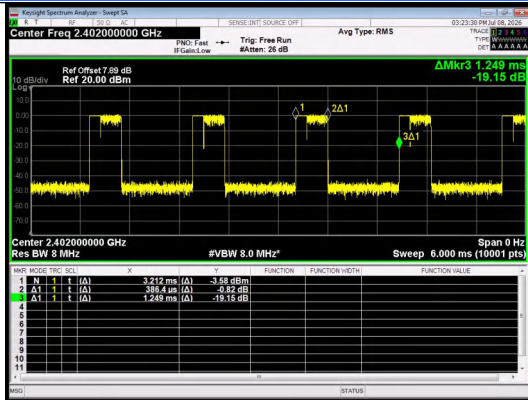
A.6 DUTY CYCLE

Test Result

Modulation	Packets	Channel	On Time (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle (linear)	Duty Cycle Factor (dB)	1/T
GFSK	DH1	0	0.376	1.249	30.10	0.3010	5.2143	2.6596
		39	0.376	1.250	30.08	0.3008	5.2172	2.6596
		78	0.376	1.250	30.08	0.3008	5.2172	2.6596
π /4DQPSK	2-DH1	0	0.386	1.250	30.88	0.3088	5.1032	2.5907
		39	0.386	1.250	30.88	0.3088	5.1032	2.5907
		78	0.386	1.249	30.90	0.3090	5.1004	2.5907
8DPSK	3-DH1	0	0.386	1.249	30.90	0.3090	5.1004	2.5907
		39	0.386	1.249	30.90	0.3090	5.1004	2.5907
		78	0.387	1.250	30.96	0.3096	5.092	2.5840

Test Graphs





8DPSK(3-DH1)_Channel 0



8DPSK(3-DH1)_Channel 39



8DPSK(3-DH1)_Channel 78

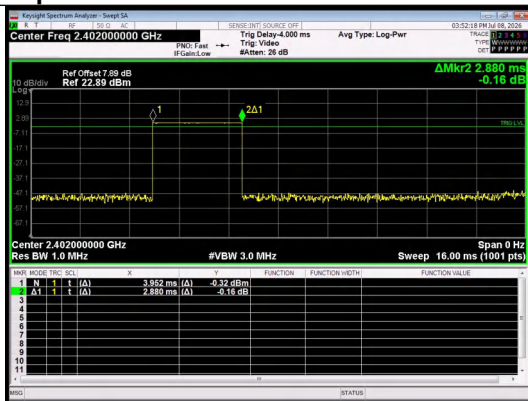
A.7 DWELL TIME

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	101	290.88	< 400	PASS
	DH5		2.880	109	313.92		PASS
	DH5		2.880	102	293.76		PASS
$\pi/4$ DQPSK	2-DH5		2.880	105	302.4		PASS
	2-DH5		2.896	118	341.73		PASS
	2-DH5		2.880	114	328.32		PASS
8DPSK	3-DH5		2.896	109	315.66		PASS
	3-DH5		2.896	107	309.87		PASS
	3-DH5		2.880	91	262.08		PASS

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

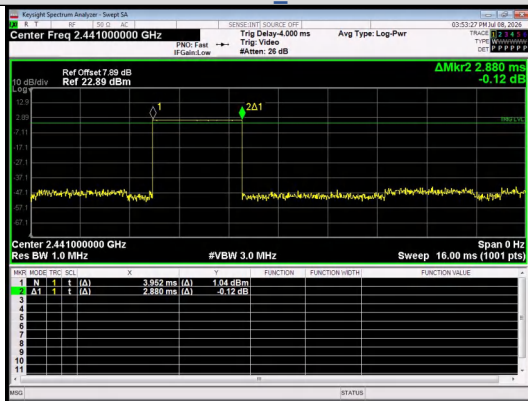
Test Graphs



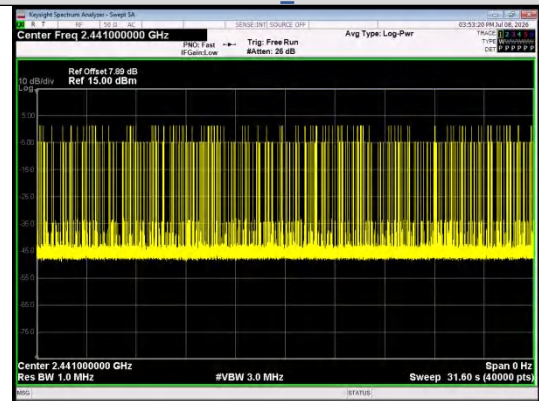
Pulse Width
GFSK_DH5



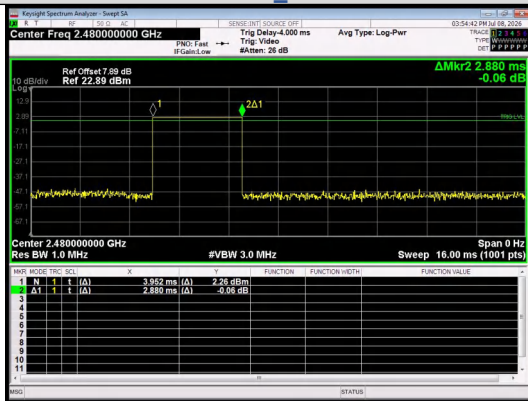
Number of Pulses in 31.6 seconds
GFSK_DH5



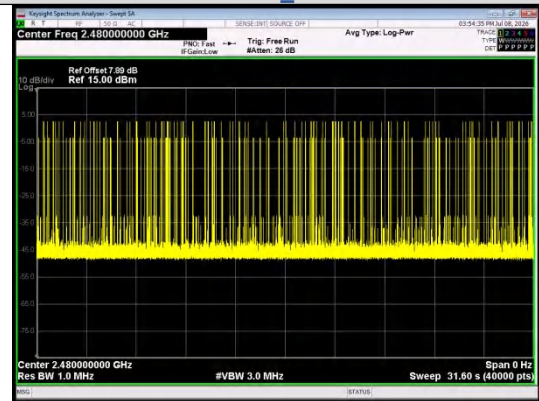
Pulse Width
GFSK_DH5



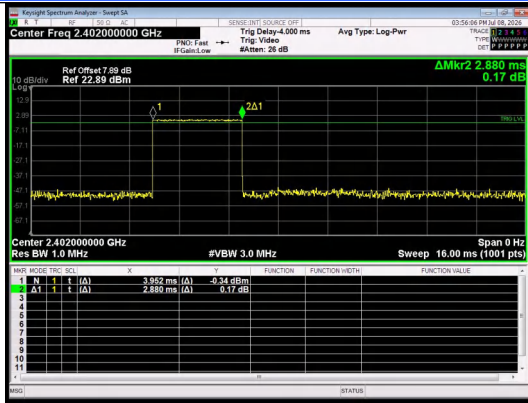
Number of Pulses in 31.6 seconds
GFSK_DH5



Pulse Width
GFSK_DH5



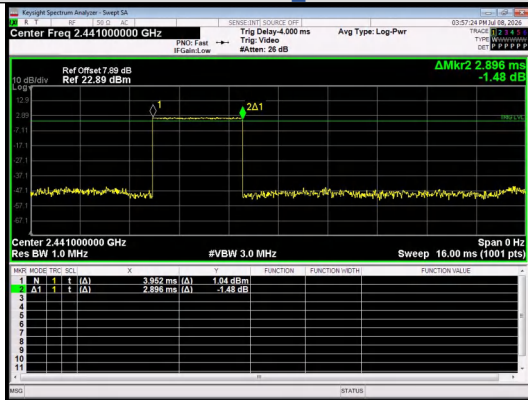
Number of Pulses in 31.6 seconds
GFSK_DH5



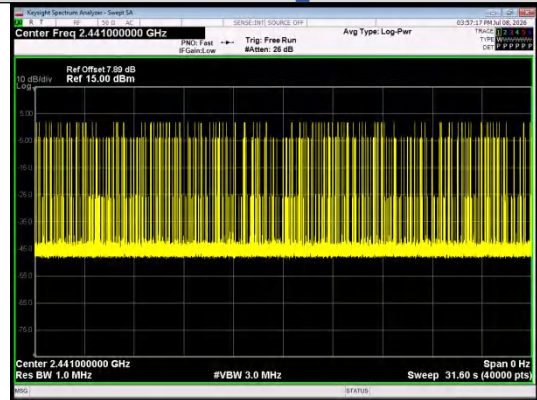
Pulse Width
 $\pi/4$ DQPSK_2-DH5



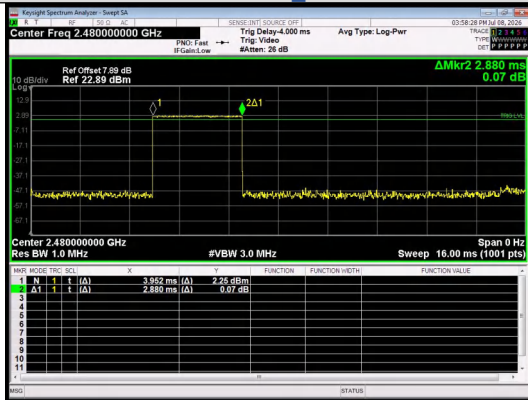
Number of Pulses in 31.6 seconds
 $\pi/4$ DQPSK_2-DH5



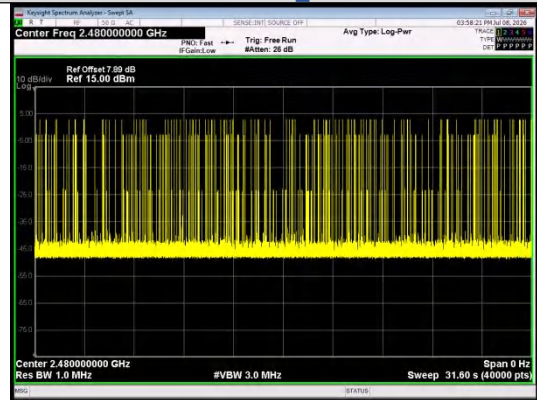
Pulse Width
 $\pi/4$ DQPSK_2-DH5



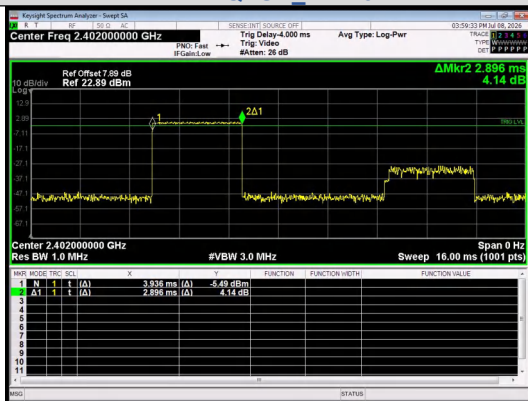
Number of Pulses in 31.6 seconds
 $\pi/4$ DQPSK_2-DH5



Pulse Width
 $\pi/4$ DQPSK_2-DH5



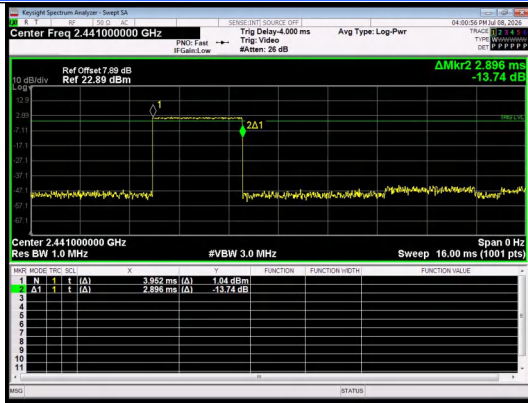
Number of Pulses in 31.6 seconds
 $\pi/4$ DQPSK_2-DH5



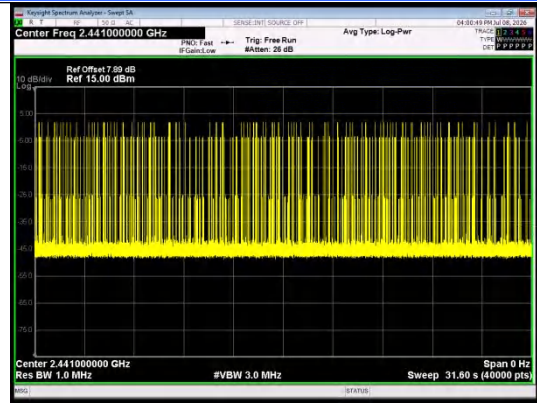
Pulse Width
8DPSK_3-DH5



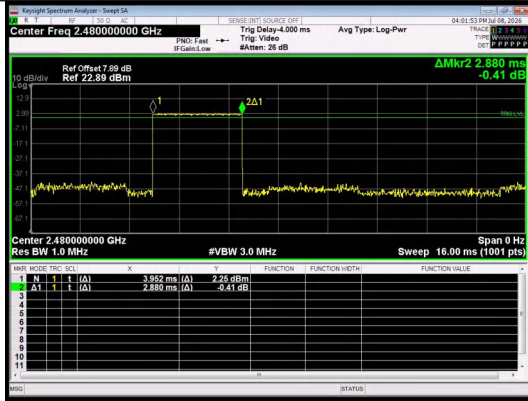
Number of Pulses in 31.6 seconds
8DPSK_3-DH5



**Pulse Width
8DPSK_3-DH5**



**Number of Pulses in 31.6 seconds
8DPSK_3-DH5**



**Pulse Width
8DPSK_3-DH5**



**Number of Pulses in 31.6 seconds
8DPSK_3-DH5**

A.8 NUMBER OF HOPPING CHANNEL

Test Result

Modulation	Packet	Number of Hopping Channel	Limit	Result
GFSK	DH1	79	15	PASS
$\pi/4$ DQPSK	2-DH1	79	15	PASS
8DPSK	3-DH1	79	15	PASS

Test Graphs

