



Keyway Testing Technology (Guangdong) Co., Ltd
Laboratory Address: Room 2102, Building 6, Dongyi Intelligent Equipment New
Energy Vehicle Park, No.30 of Tangxia District, Dongshen Road, Tangxia Town,
Dongguan, 523710, People's Republic of China

E.U.T:	Wireless Headphones
Model Number:	HQ60
Trade Name:	N/A
Sample Number:	33000270429
Date of Receipt:	May 12, 2026
Date of Test:	May 13 ~ 30, 2026
FCC ID:	2BVW8-HQ60

Note: The test data have all been compensated for cable loss, and when measuring the entire 2400-2500MHz, the maximum loss value 7.89 dB.and when measuring the entire 30MHz-25GHz, Input Compensation Coefficient (dB) = Max Cable Loss (dB)

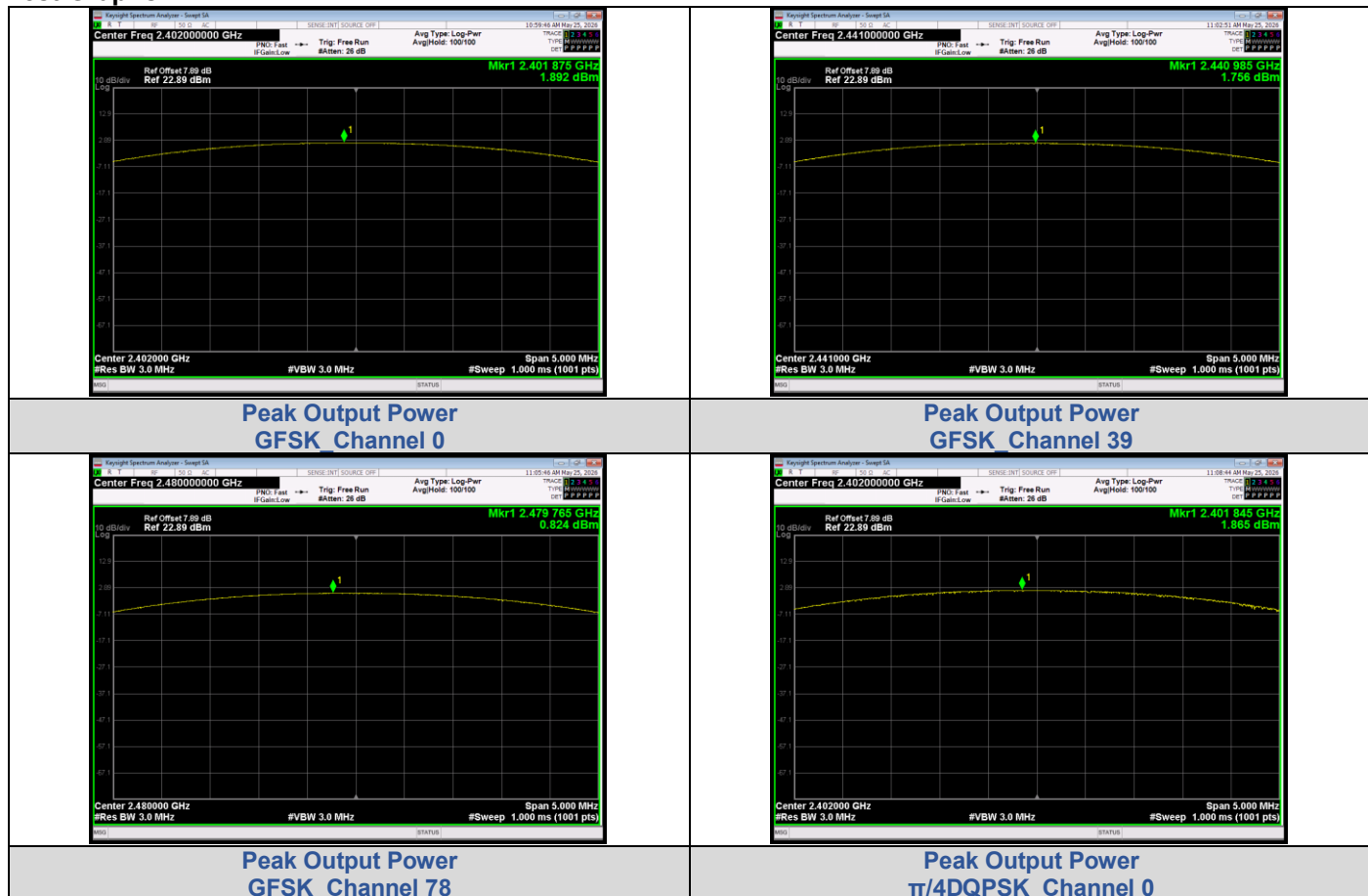
A.1 CONDUCTED OUTPUT POWER

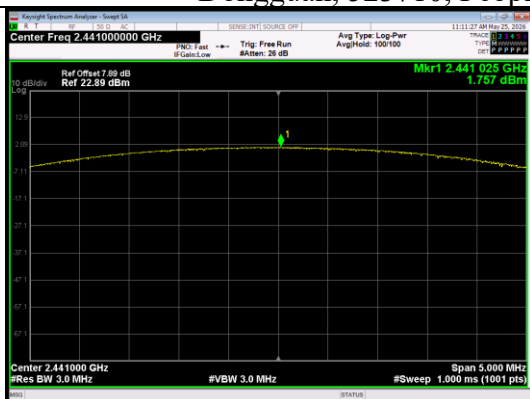
Test Result

Modulation	Packet Type	Channel	Peak Output Power (dBm)	Peak Output Power (mW)	Max. Avg. Power (dBm)	Limit (dBm)	Result
GFSK	DH1	0	1.89	1.55	None	≤30	PASS
		39	1.76	1.50	None		PASS
		78	0.82	1.21	None		PASS
π/4DQPSK	2-DH1	0	1.86	1.54	None		PASS
		39	1.76	1.50	None		PASS
		78	0.83	1.21	None		PASS
8DPSK	3-DH1	0	1.88	1.54	None		PASS
		39	1.74	1.49	None		PASS
		78	0.82	1.21	None		PASS

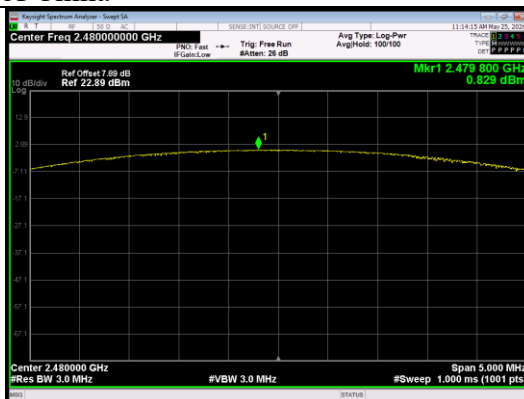
Modulation	Packet Type	Channel	Peak Output Power (dBm)	Peak Power Limit (dBm)	ISED EIRP (dBm)	ISED EIRP Limit (dBm)	Max. Avg. Power (dBm)	Result
GFSK	DH1	0	1.89	≤30	1.892	≤36.02	None	PASS
		39	1.76	≤30	1.756	≤36.02	None	PASS
		78	0.82	≤30	0.824	≤36.02	None	PASS
π/4DQPSK	2-DH1	0	1.86	≤30	1.865	≤36.02	None	PASS
		39	1.76	≤30	1.757	≤36.02	None	PASS
		78	0.83	≤30	0.829	≤36.02	None	PASS
8DPSK	3-DH1	0	1.88	≤30	1.875	≤36.02	None	PASS
		39	1.74	≤30	1.741	≤36.02	None	PASS
		78	0.82	≤30	0.824	≤36.02	None	PASS

Test Graphs

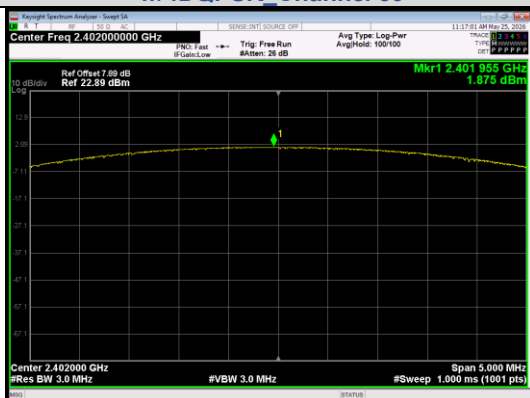




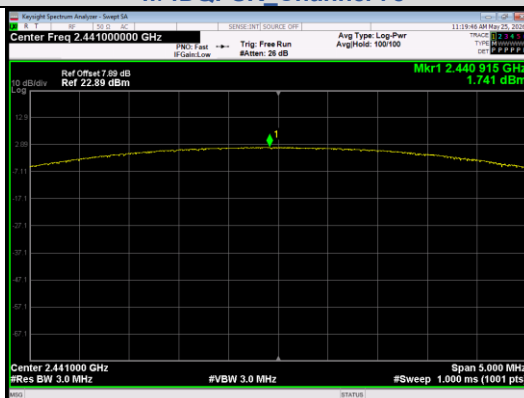
**Peak Output Power
 $\pi/4$ DQPSK_Channel 39**



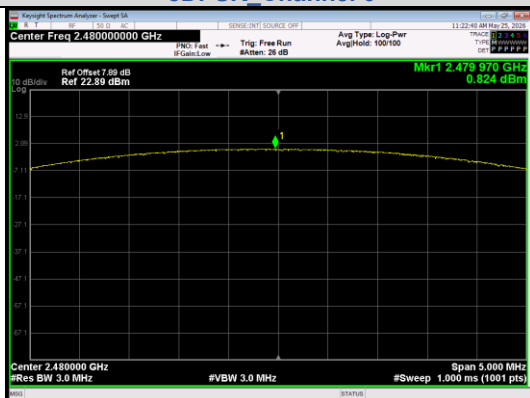
**Peak Output Power
 $\pi/4$ DQPSK_Channel 78**



**Peak Output Power
 8DPSK_Channel 0**



**Peak Output Power
 8DPSK_Channel 39**



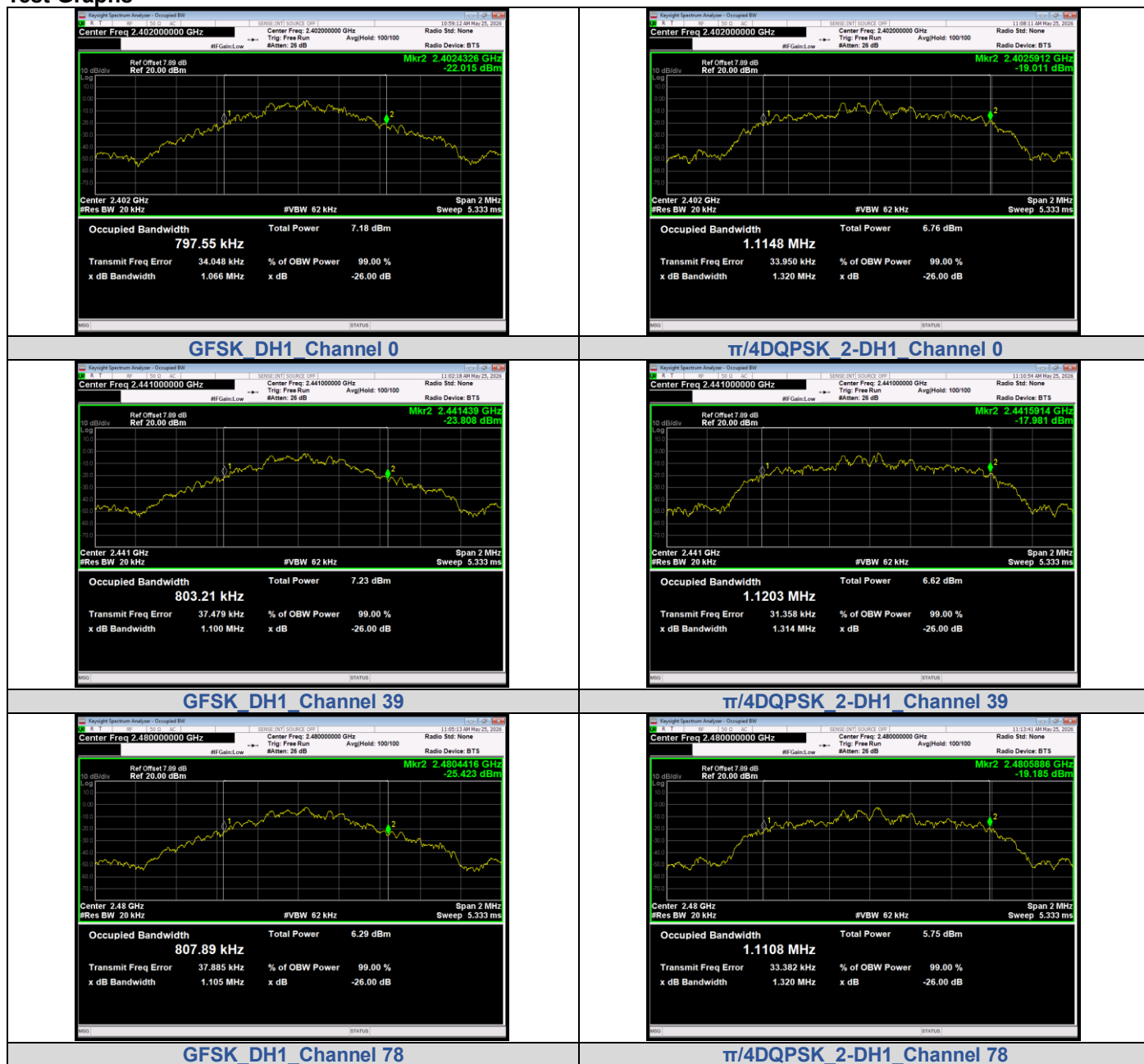
**Peak Output Power
 8DPSK_Channel 78**

A.2 99% BANDWIDTH

Test Result

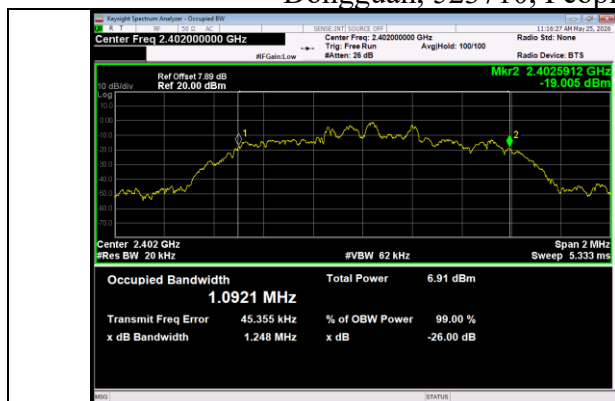
Modulation	Channel	Center Frequency (MHz)	99% BW (MHz)
GFSK	0	2402	0.79755
	39	2441	0.80321
	78	2480	0.80789
$\pi/4$ DQPSK	0	2402	1.1148
	39	2441	1.1203
	78	2480	1.1108
8DPSK	0	2402	1.0921
	39	2441	1.0959
	78	2480	1.1004

Test Graphs

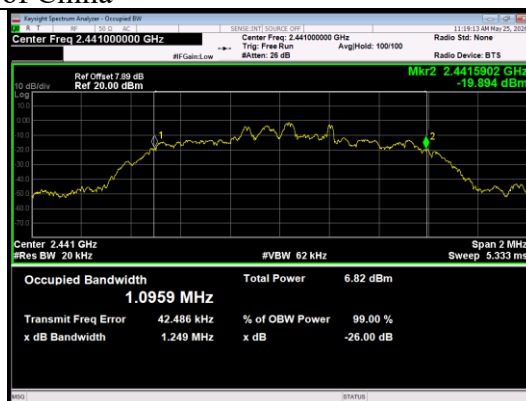




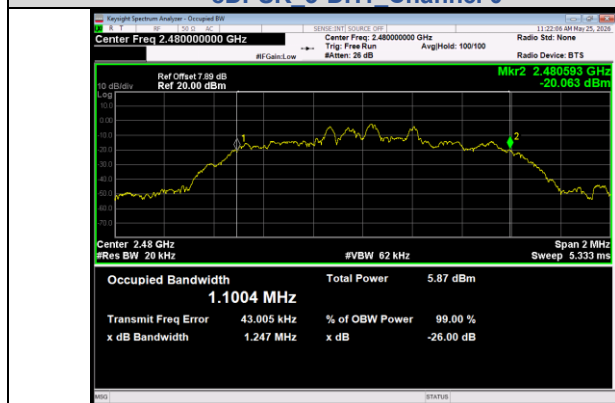
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8DPSK 3-DH1 Channel 0



8DPSK 3-DH1 Channel 39



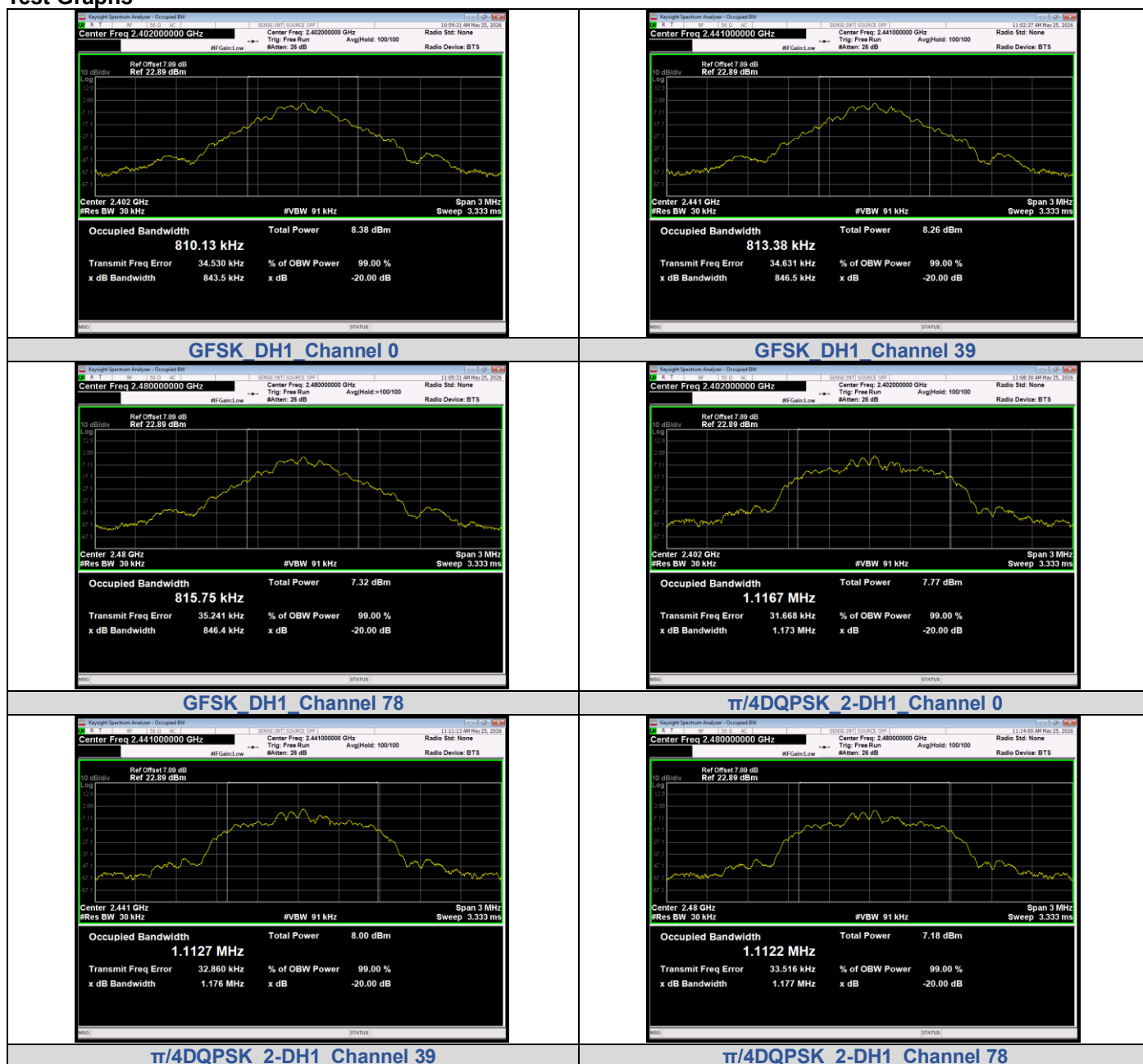
8DPSK 3-DH1 Channel 78

A.3 20DB BANDWIDTH

Test Result

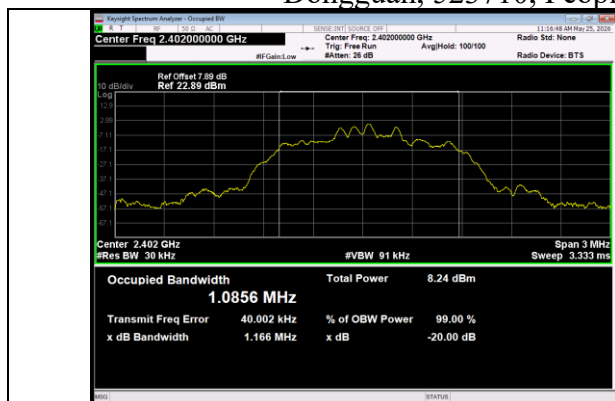
Modulation	Channel	Center Frequency (MHz)	20 dB Bandwidth (MHz)
GFSK	0	2402 MHz	0.8435
	39	2441 MHz	0.8465
	78	2480 MHz	0.8464
$\pi/4$ DQPSK	0	2402 MHz	1.173
	39	2441 MHz	1.176
	78	2480 MHz	1.177
8DPSK	0	2402 MHz	1.166
	39	2441 MHz	1.167
	78	2480 MHz	1.171

Test Graphs

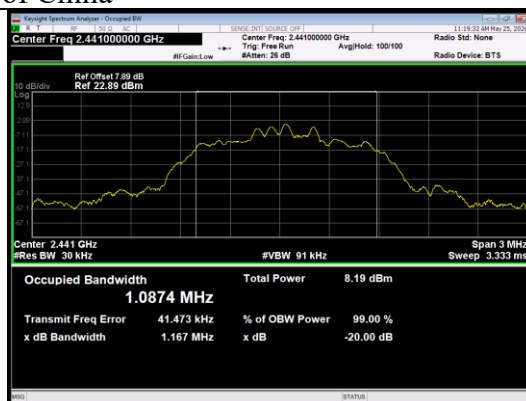




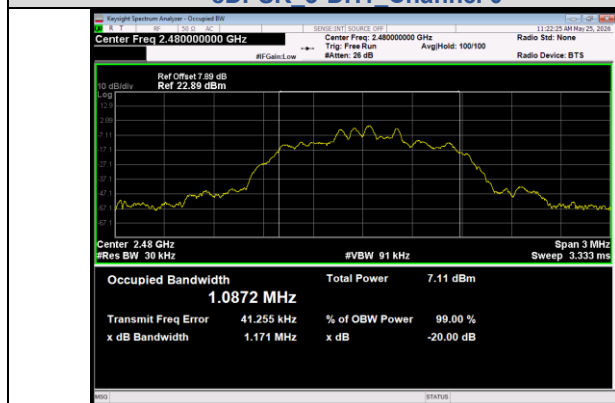
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8DPSK 3-DH1 Channel 0



8DPSK 3-DH1 Channel 39



8DPSK 3-DH1 Channel 78



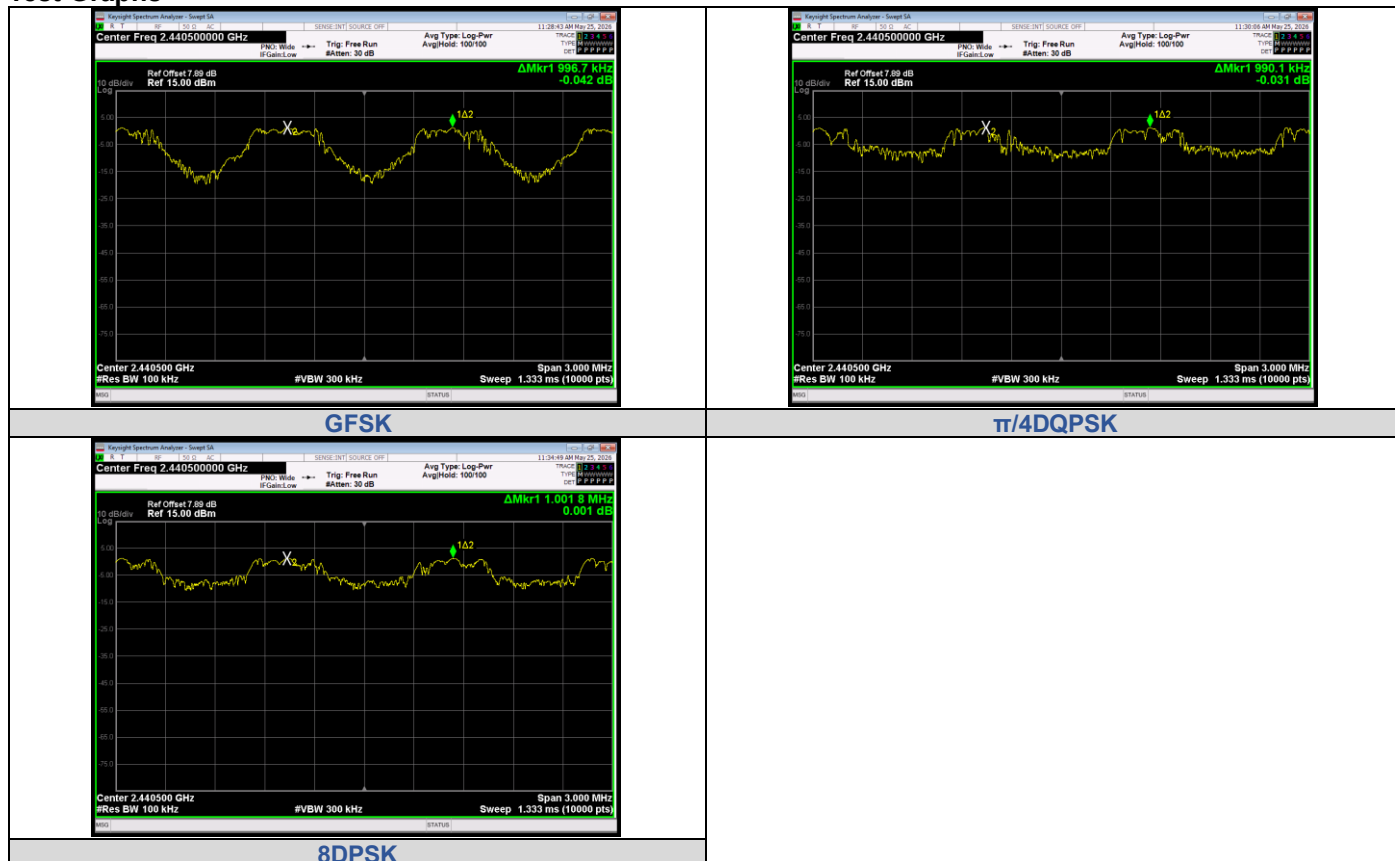
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A.4 CARRIER FREQUENCIES SEPARATION

Test Result

Modulation	Packet	Left Center frequency (MHz)	Right Center frequency (MHz)	Hopping Frequency Separation (MHz)	Minimum Limit (MHz)	Result
GFSK	DH1	2440.0345	2441.0312	0.9967	0.847	PASS
$\pi/4$ DQPSK	2-DH1	2440.0441	2441.0342	0.9901	0.785	PASS
8DPSK	3-DH1	2440.0336	2441.0354	1.0018	0.781	PASS

Test Graphs





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A.5 CONDUCTED SPURIOUS & BAND EDGE EMISSION

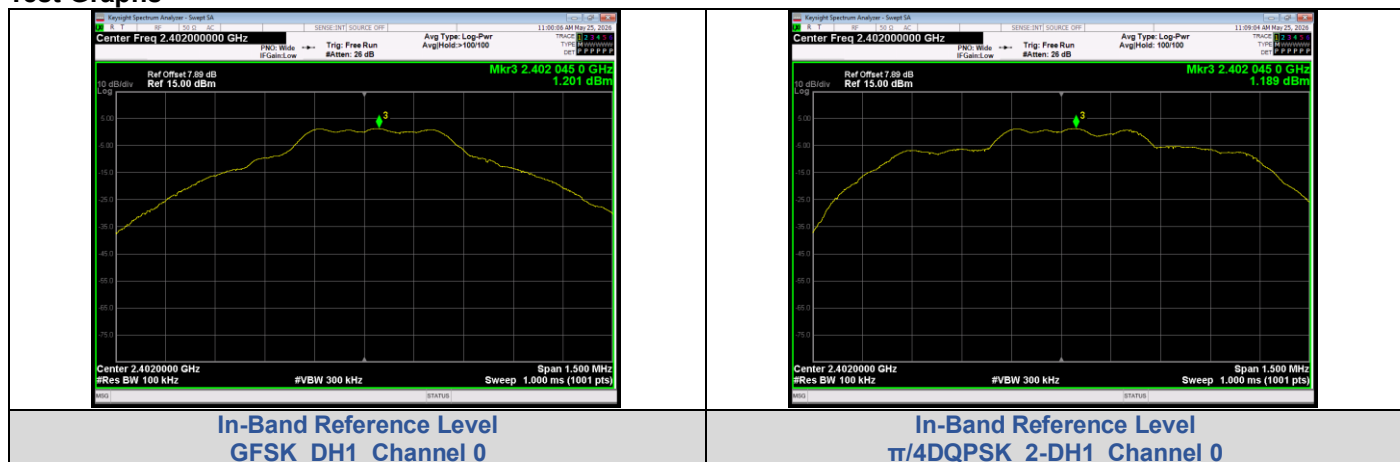
Test Result

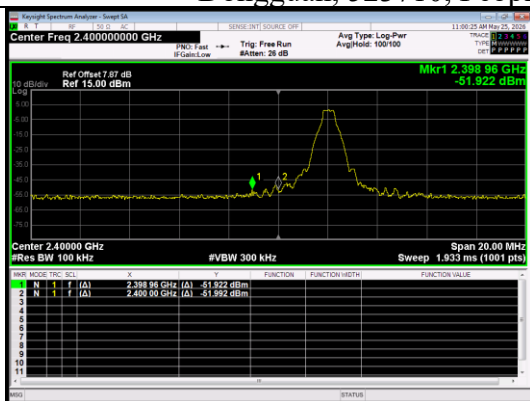
Non-Hopping

Modulation	Packet	Channel	OOB Emission Frequency (MHz)	OOB Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result
GFSK	DH1	0	2398.96	-51.922	-18.8	-33.122	PASS
			2400.00	-51.992	-18.8	-33.192	PASS
			4804.30	-50.461	-18.8	-31.661	PASS
			7205.80	-68.336	-18.8	-49.536	PASS
		39	9608.50	-67.029	-18.8	-48.230	PASS
			4881.67	-44.131	-18.9	-25.231	PASS
			7323.11	-68.341	-18.9	-49.441	PASS
			9764.55	-68.215	-18.9	-49.315	PASS
		78	2483.50	-55.588	-19.82	-35.768	PASS
			4959.70	-48.127	-19.82	-28.307	PASS
			7439.22	-68.945	-19.82	-49.125	PASS
			9919.37	-69.658	-19.82	-49.838	PASS
$\pi/4$ DQPSK	2-DH1	0	2398.24	-53.654	-18.81	-34.844	PASS
			2400.00	-54.485	-18.81	-35.675	PASS
			4804.30	-42.209	-18.81	-23.399	PASS
			7205.10	-69.463	-18.81	-50.653	PASS
		39	9607.20	-67.948	-18.81	-49.138	PASS
			4882.30	-45.735	-18.88	-26.855	PASS
			7323.11	-68.709	-18.88	-49.829	PASS
			9763.93	-69.414	-18.88	-50.534	PASS
		78	2483.50	-55.511	-19.82	-35.691	PASS
			4959.70	-46.035	-19.82	-26.215	PASS
			7439.85	-69.621	-19.82	-49.801	PASS
			9920.62	-69.787	-19.82	-49.967	PASS
8DPSK	3-DH1	0	2400.00	-50.624	-18.8	-31.824	PASS
			4804.26	-43.548	-18.8	-24.748	PASS
			7206.38	-67.918	-18.8	-49.118	PASS
			9607.87	-67.659	-18.8	-48.859	PASS
		39	4882.30	-43.747	-18.9	-24.847	PASS
			7323.74	-69.517	-18.9	-50.617	PASS
			9763.93	-68.348	-18.9	-49.448	PASS
		78	2483.50	-56.693	-19.8	-36.893	PASS
			4960.33	-44.374	-19.8	-24.574	PASS
			7439.85	-68.144	-19.8	-48.344	PASS
			9919.99	-68.364	-19.8	-48.564	PASS

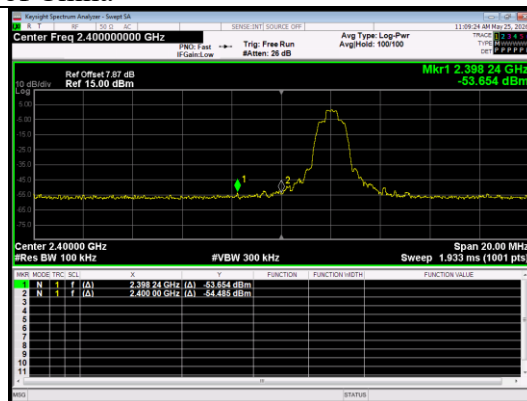
Note: input compensation coefficient (dB)= Cable Loss (dB)

Test Graphs

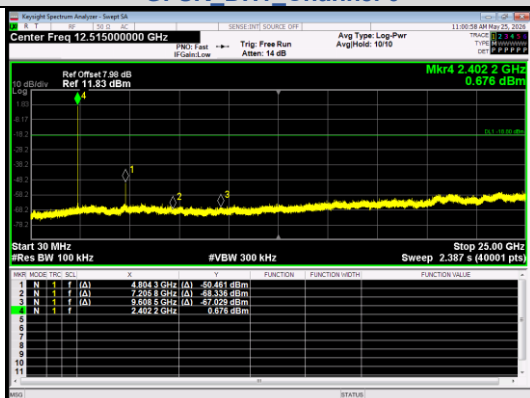




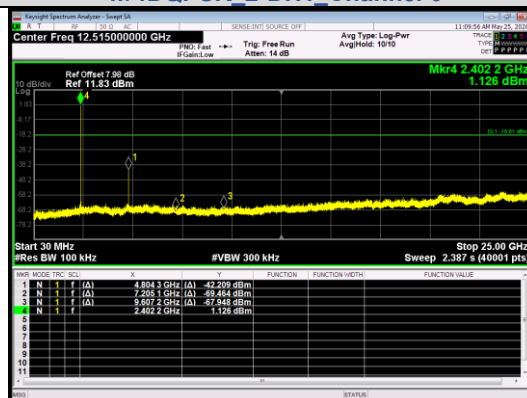
Out Of Band Emission
GFSK DH1 Channel 0



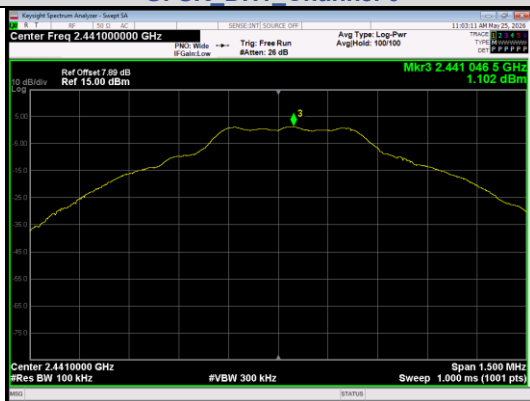
Out Of Band Emission
 $\pi/4$ DQPSK 2-DH1 Channel 0



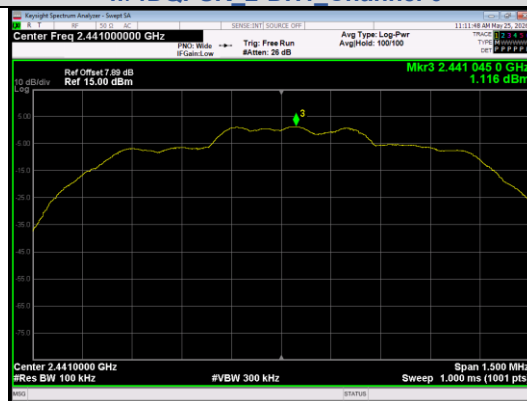
30.0 MHz - 25000.0 MHz
GFSK DH1 Channel 0



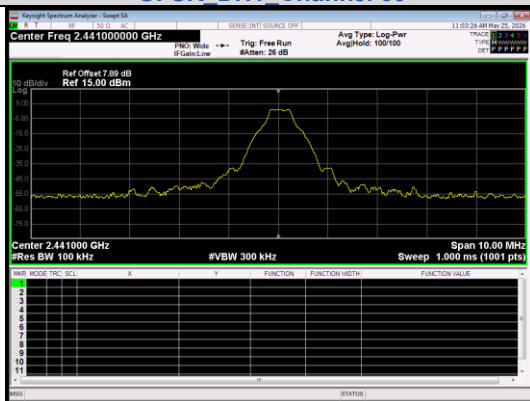
30.0 MHz - 25000.0 MHz
 $\pi/4$ DQPSK 2-DH1 Channel 0



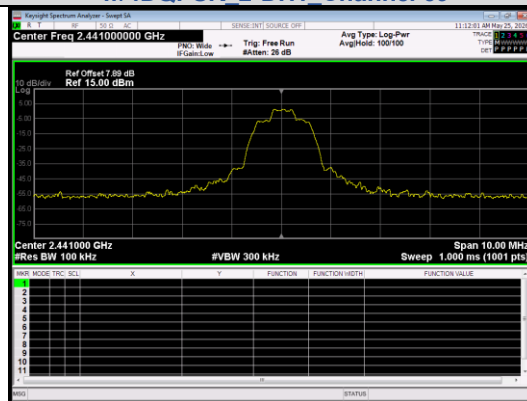
In-Band Reference Level
GFSK DH1 Channel 39



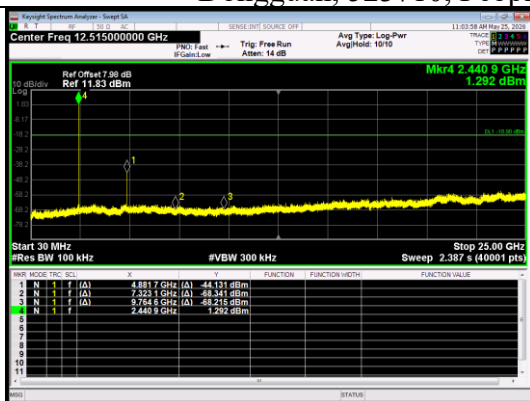
In-Band Reference Level
 $\pi/4$ DQPSK 2-DH1 Channel 39



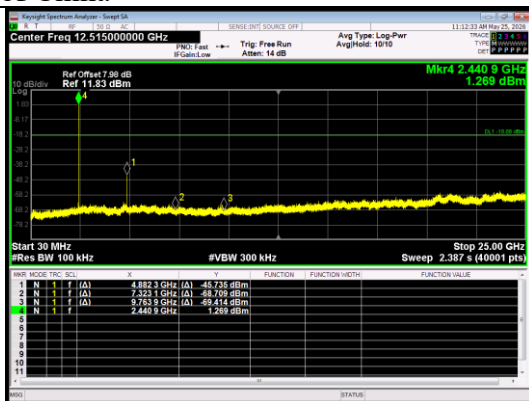
Out Of Band Emission
GFSK DH1 Channel 39



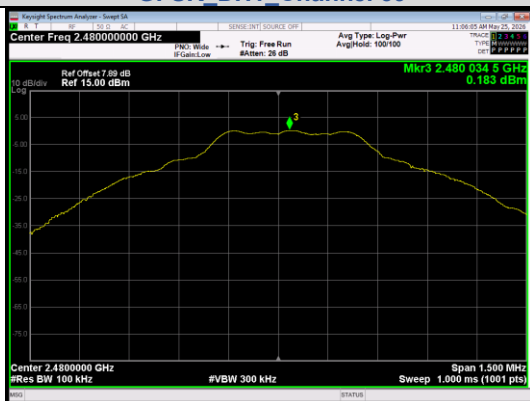
Out Of Band Emission
 $\pi/4$ DQPSK 2-DH1 Channel 39



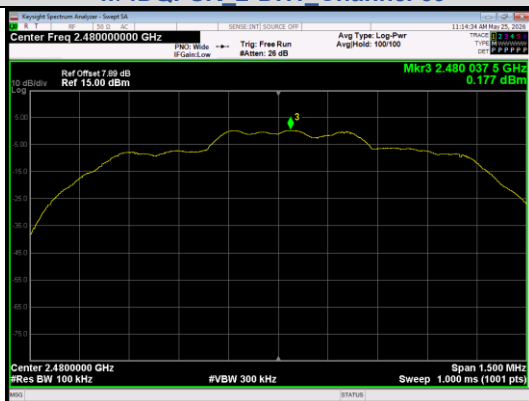
30.0 MHz - 25000.0 MHz
GFSK_DH1_Channel 39



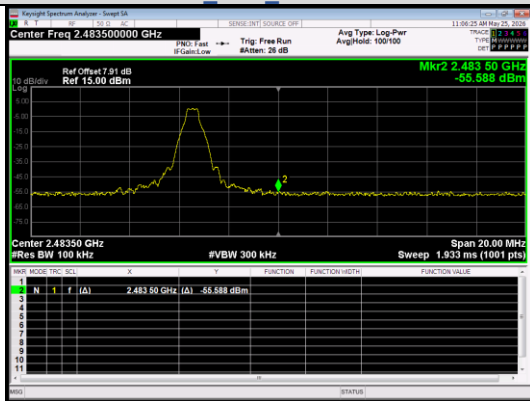
30.0 MHz - 25000.0 MHz
π/4DQPSK_2-DH1_Channel 39



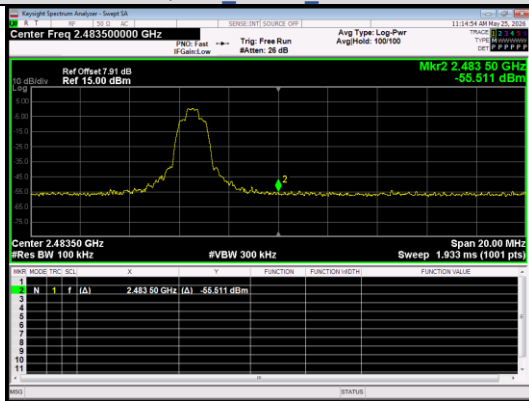
In-Band Reference Level
GFSK_DH1_Channel 78



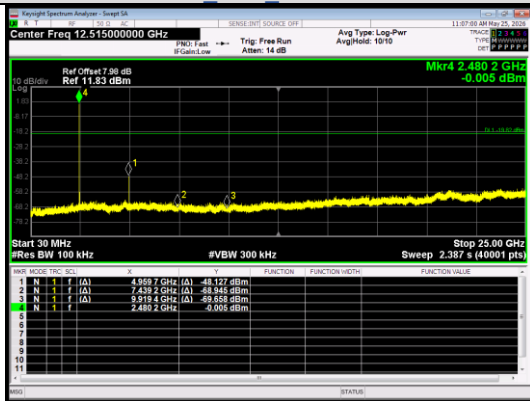
In-Band Reference Level
π/4DQPSK_2-DH1_Channel 78



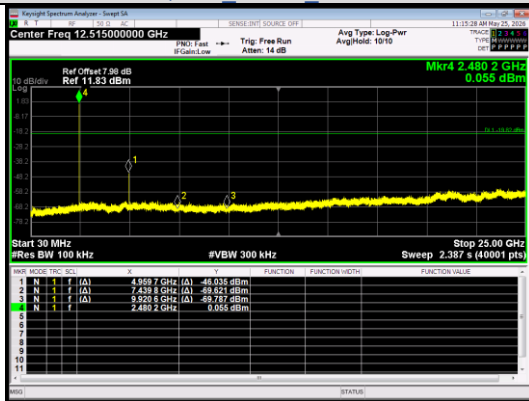
Out Of Band Emission
GFSK_DH1_Channel 78



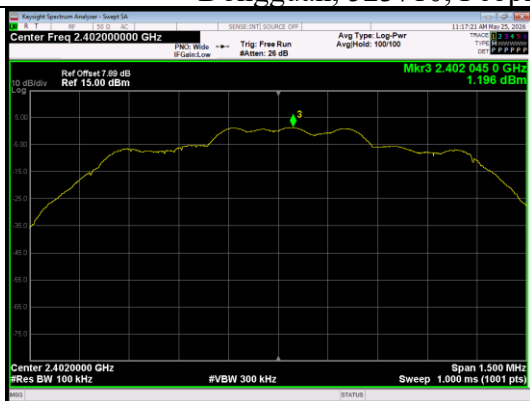
Out Of Band Emission
π/4DQPSK_2-DH1_Channel 78



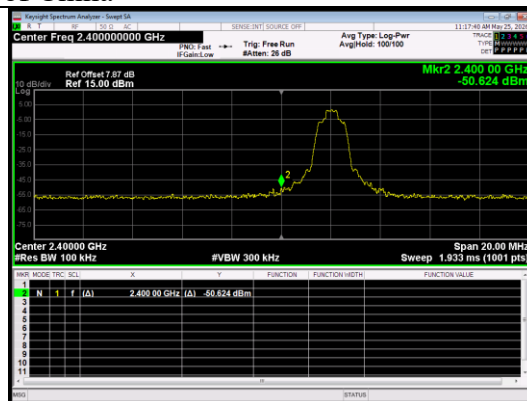
30.0 MHz - 25000.0 MHz
GFSK_DH1_Channel 78



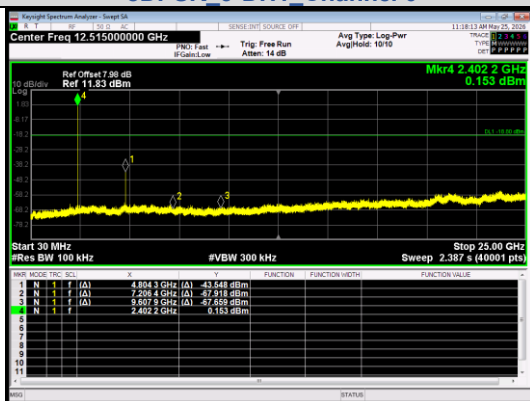
30.0 MHz - 25000.0 MHz
π/4DQPSK_2-DH1_Channel 78



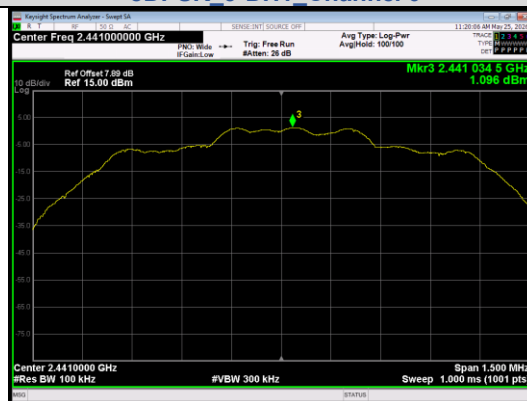
**In-Band Reference Level
8DPSK 3-DH1 Channel 0**



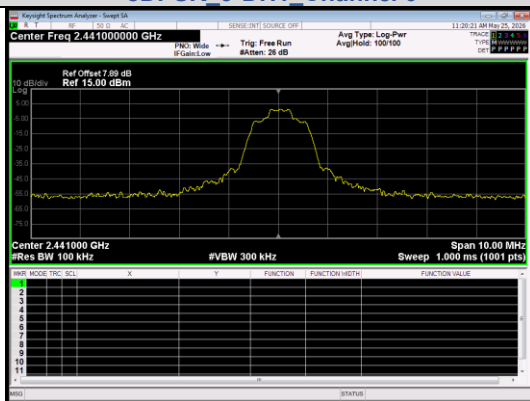
**Out Of Band Emission
8DPSK 3-DH1 Channel 0**



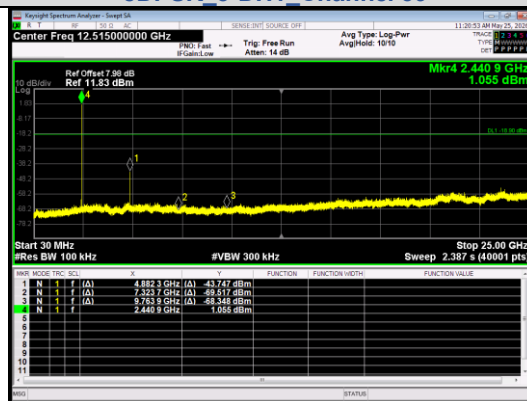
**30.0 MHz - 25000.0 MHz
8DPSK 3-DH1 Channel 0**



**In-Band Reference Level
8DPSK 3-DH1 Channel 39**



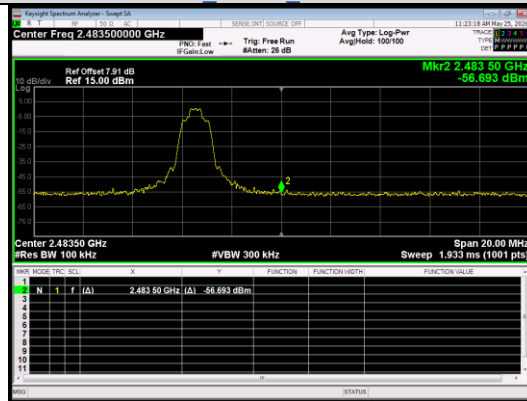
**Out Of Band Emission
8DPSK 3-DH1 Channel 39**



**30.0 MHz - 25000.0 MHz
8DPSK 3-DH1 Channel 39**



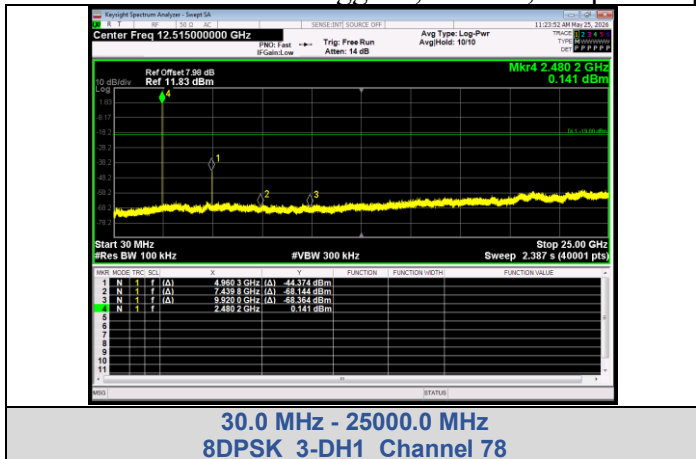
**In-Band Reference Level
8DPSK 3-DH1 Channel 78**



**Out Of Band Emission
8DPSK 3-DH1 Channel 78**



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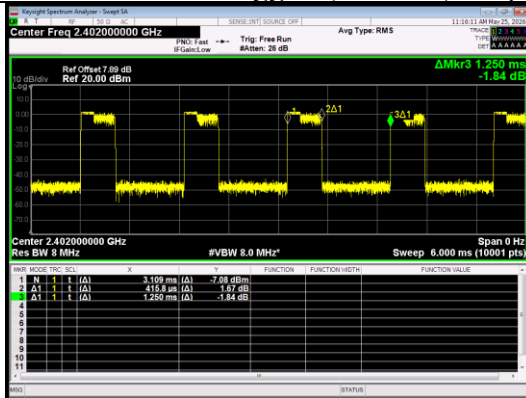
A.6 DUTY CYCLE

Test Result

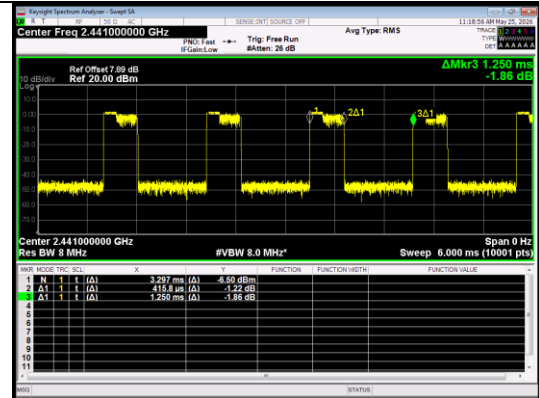
Modulation	Packets	Channel	On Time (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle (linear)	Duty Cycle Factor (dB)	1/T
GFSK	DH1	0	0.407	1.250	32.55	0.3255	4.8745	2.4570
		39	0.406	1.249	32.52	0.3252	4.8785	2.4631
		78	0.406	1.250	32.50	0.3250	4.8812	2.4631
$\pi/4$ DQPSK	2-DH1	0	0.415	1.249	33.24	0.3324	4.7834	2.4096
		39	0.416	1.250	33.27	0.3327	4.7795	2.4038
		78	0.416	1.250	33.27	0.3327	4.7795	2.4038
8DPSK	3-DH1	0	0.416	1.250	33.27	0.3327	4.7795	2.4038
		39	0.416	1.250	33.27	0.3327	4.7795	2.4038
		78	0.416	1.249	33.29	0.3329	4.7769	2.4038

Test Graphs

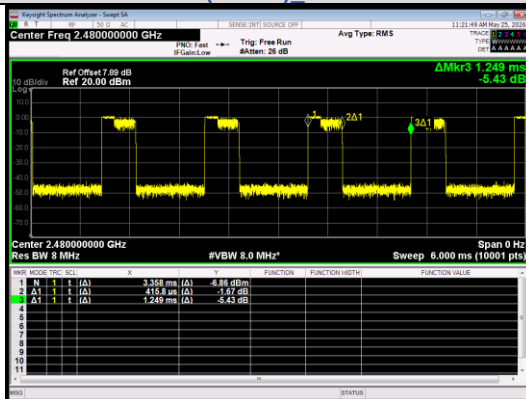




8DPSK(3-DH1)_Channel 0



8DPSK(3-DH1)_Channel 39



8DPSK(3-DH1)_Channel 78



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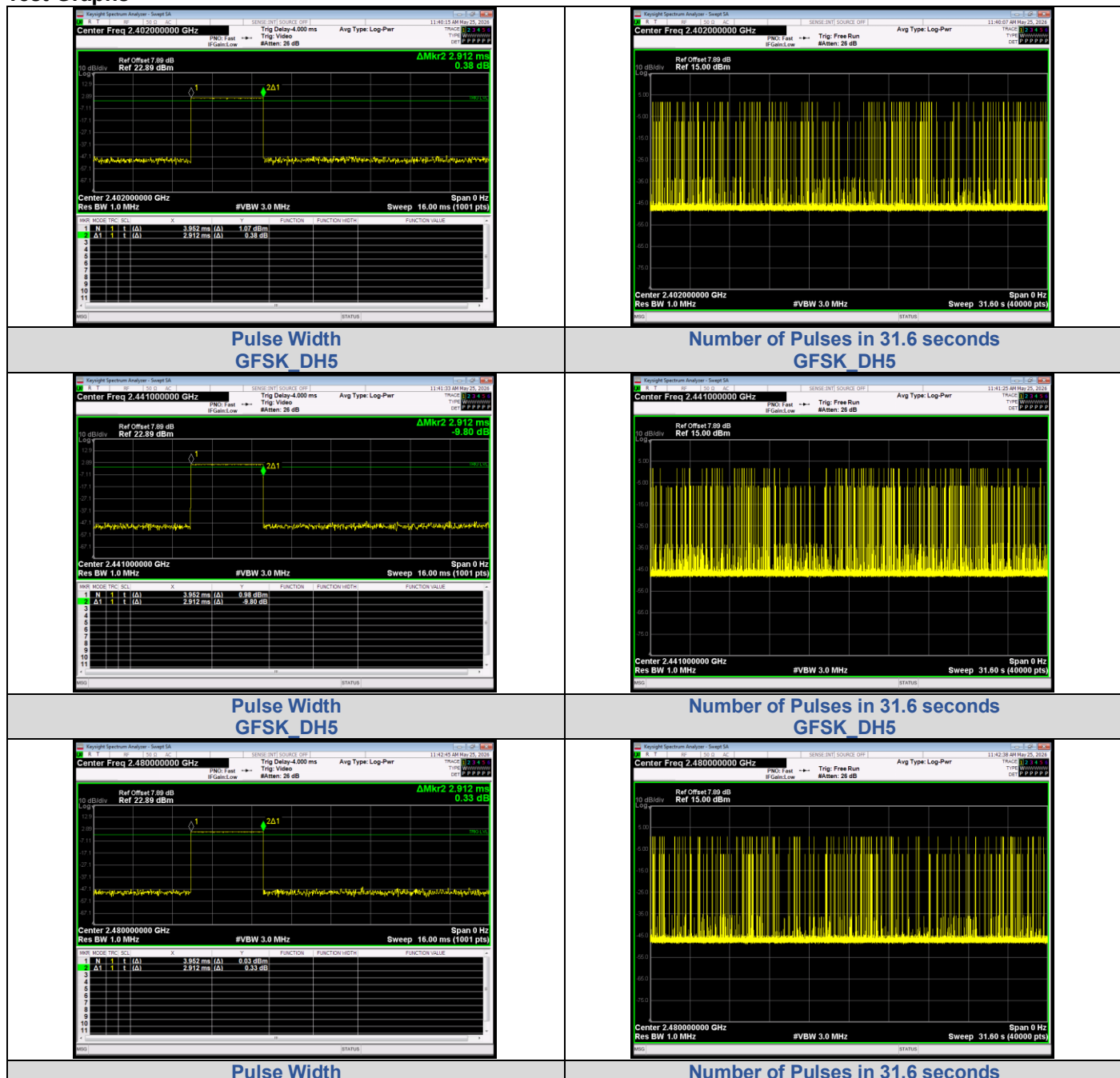
A.7 DWELL TIME

Test Result

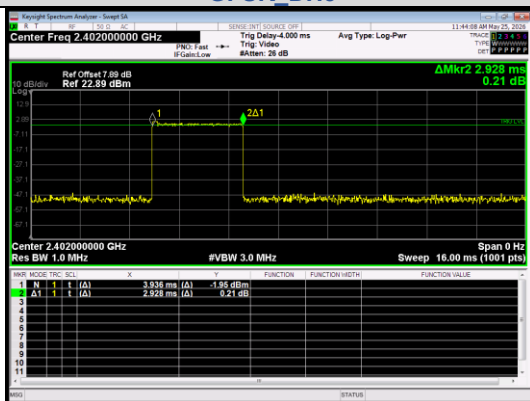
Modulation	Packet	Channel	Pulse Width (ms)	Number of Pulses in 31.6 seconds	Dwell Time (ms)	Limit (ms)	Result
GFSK	DH5	Hopping	2.912	113	329.06	< 400	PASS
	DH5		2.912	110	320.32		PASS
	DH5		2.912	111	323.23		PASS
π/4DQPSK	2-DH5		2.928	104	304.51		PASS
	2-DH5		2.928	114	333.79		PASS
	2-DH5		2.912	101	294.11		PASS
8DPSK	3-DH5		0.1920	101	19.39		PASS
	3-DH5		0.1920	111	21.31		PASS
	3-DH5		0.1920	105	20.16		PASS

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

Test Graphs



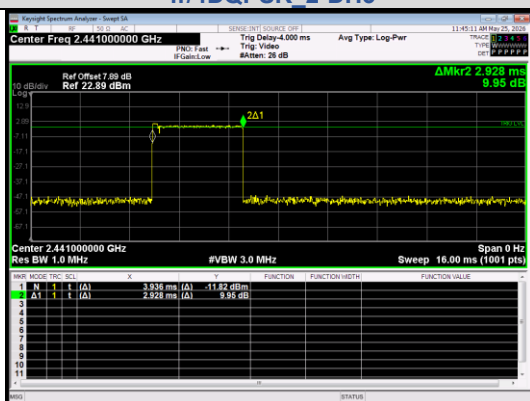
GFSK_DH5



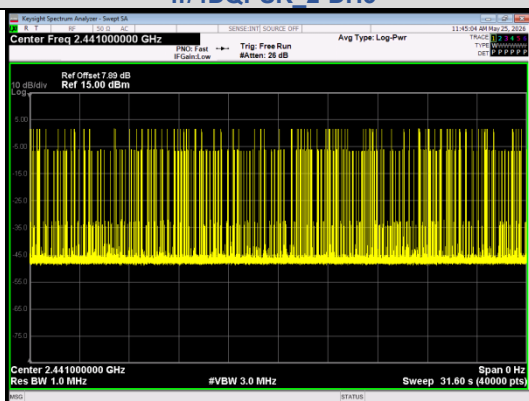
GFSK_DH5



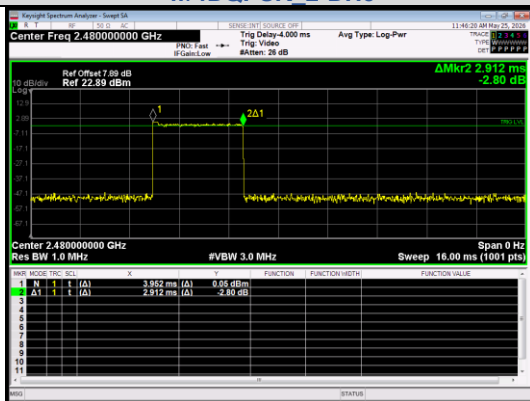
**Pulse Width
 $\pi/4$ DQPSK_2-DH5**



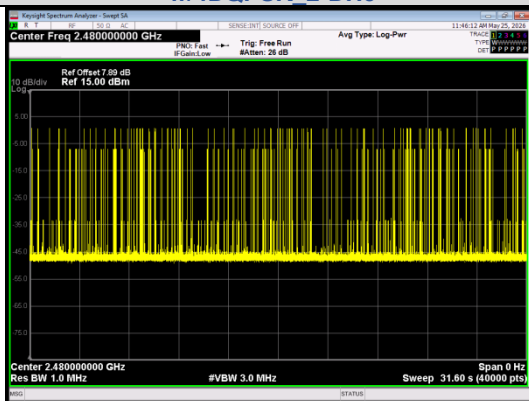
**Number of Pulses in 31.6 seconds
 $\pi/4$ DQPSK_2-DH5**



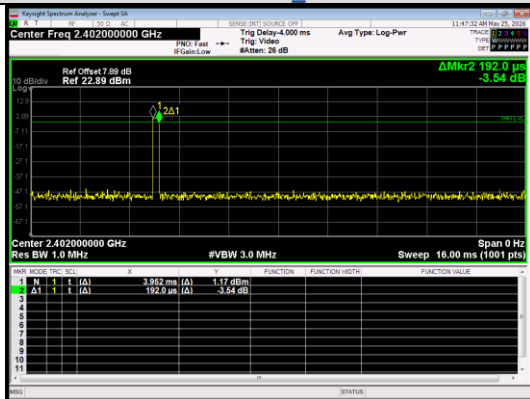
**Pulse Width
 $\pi/4$ DQPSK_2-DH5**



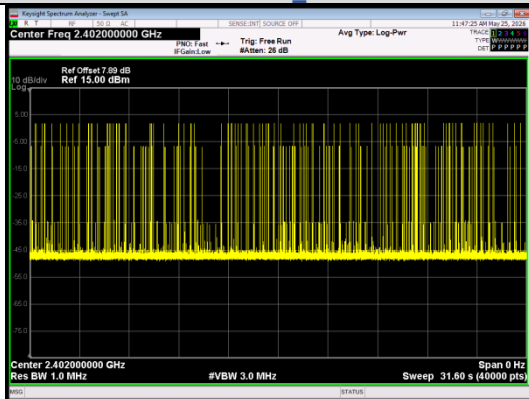
**Number of Pulses in 31.6 seconds
 $\pi/4$ DQPSK_2-DH5**



**Pulse Width
 $\pi/4$ DQPSK_2-DH5**

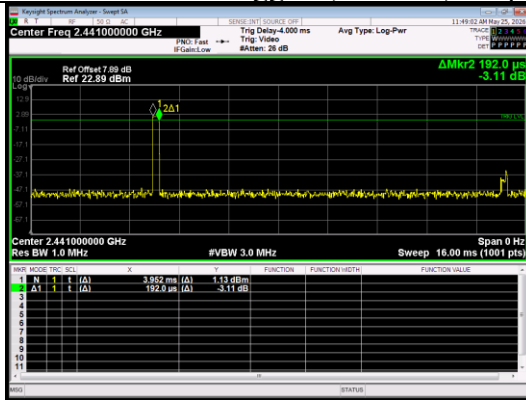


**Number of Pulses in 31.6 seconds
 $\pi/4$ DQPSK_2-DH5**

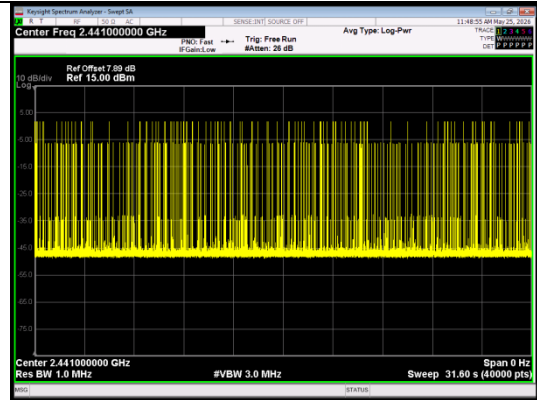


**Pulse Width
 8DPSK_3-DH5**

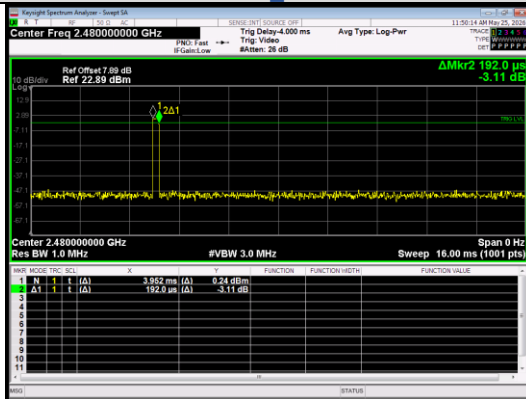
**Number of Pulses in 31.6 seconds
 8DPSK_3-DH5**



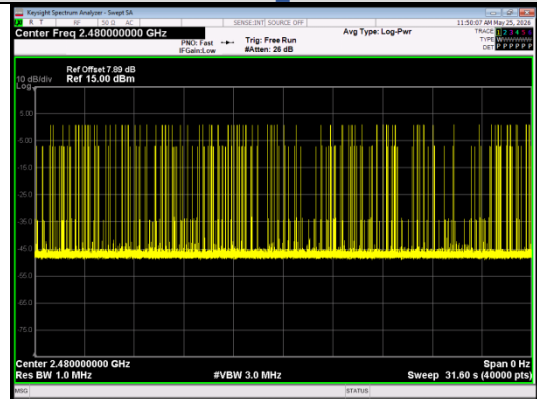
**Pulse Width
8DPSK_3-DH5**



**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**



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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

