

Number of Pulses in 31.6 seconds
GFSK_DH5

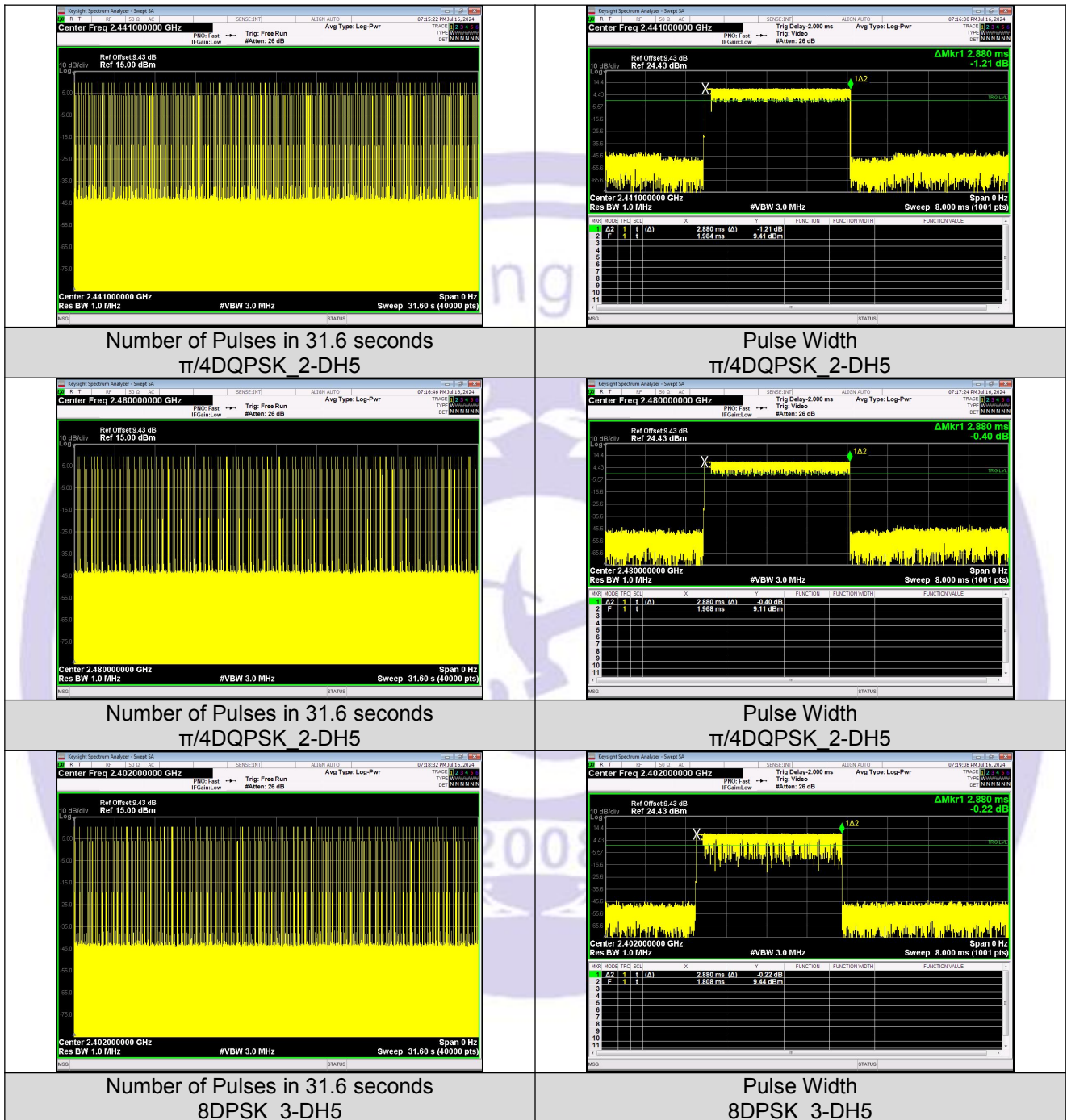
Pulse Width
GFSK_DH5

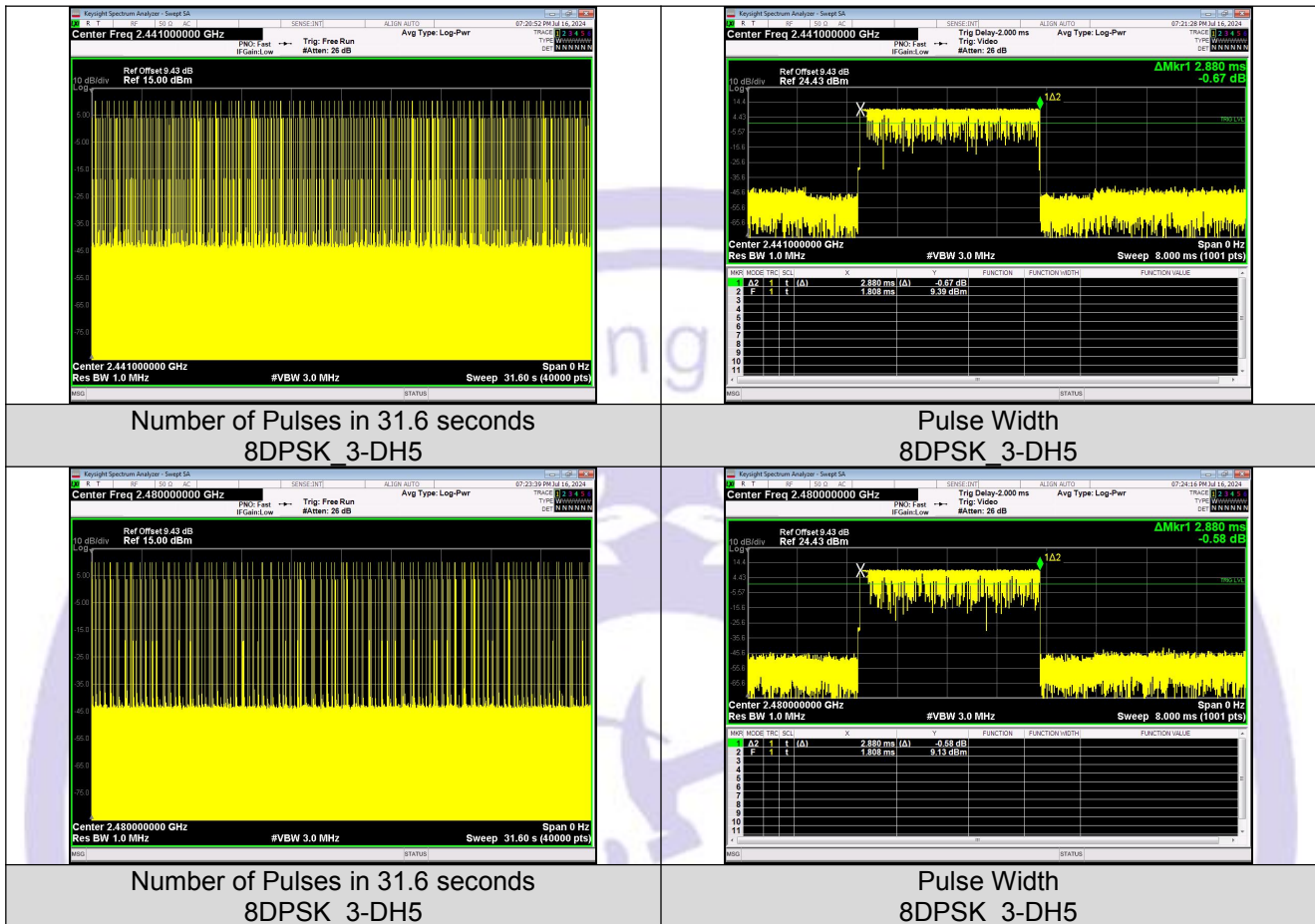
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Pulse Width
GFSK_DH5

Number of Pulses in 31.6 seconds
π/4DQPSK_2-DH5

Pulse Width
π/4DQPSK_2-DH5



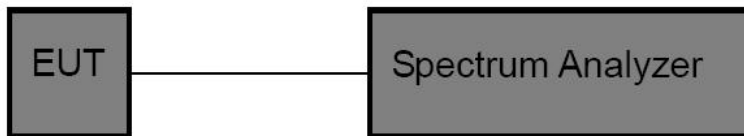


13 100kHz Bandwidth of Frequency Band Edge Requirement

13.1 Test Standard and Limit

Test Standard	FCC Part15 C Section 15.247 (d) & RSS-247 5.5
Test Limit	in any 100 kHz bandwidth outside the frequency bands in which the spread spectrum intentional radiator in operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power, In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in 15.209(a).

13.2 Test Setup



13.3 Test Procedure

The EUT must have its hopping/Non-hopping function enabled. Using the following spectrum analyzer setting:

1. Set the RBW = 100kHz.
2. Set the VBW = 300kHz.
3. Sweep time = auto couple.
4. Detector function = peak.
5. Trace mode = max hold.
6. Allow trace to fully stabilize.

13.4 Test Data

Non-Hopping

Modulation	Packet	Channel	OOB Emission Frequency (MHz)	OOB Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result
GFSK	DH1	0	2400.00	-45.350	-10.72	-34.630	PASS
			21121.4	-46.368	-10.72	-35.648	PASS
		39	21591.5	-47.725	-10.88	-36.845	PASS
		78	2483.50	-48.632	-11.1	-37.532	PASS
$\pi/4$ DQPSK	2-DH1	0	2400.00	-44.809	-10.73	-34.079	PASS
			21586.5	-46.726	-10.73	-35.996	PASS
		39	21133.9	-45.892	-10.84	-35.052	PASS
		78	2483.50	-50.458	-11.12	-39.338	PASS
8DPSK	3-DH1	0	2400.00	-43.908	-10.71	-33.198	PASS
			21204.5	-47.096	-10.71	-36.386	PASS
		39	21132.0	-47.461	-10.79	-36.671	PASS
		78	2483.50	-49.885	-11.06	-38.825	PASS
			21587.1	-46.200	-11.06	-35.140	PASS

Hopping

Modulation	Packet	Channel	OOB Emission Frequency (MHz)	OOB Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result
GFSK	DH1	Hopping	2400.00	-46.239	-10.58	-35.659	PASS
			2483.50	-49.218	-10.86	-38.358	PASS
$\pi/4$ DQPSK	2-DH1		2400.00	-46.002	-10.62	-35.382	PASS
			2483.50	-49.823	-10.91	-38.913	PASS
8DPSK	3-DH1		2400.00	-43.886	-10.53	-33.356	PASS
			2483.50	-50.091	-10.85	-39.241	PASS

Test Graphs

