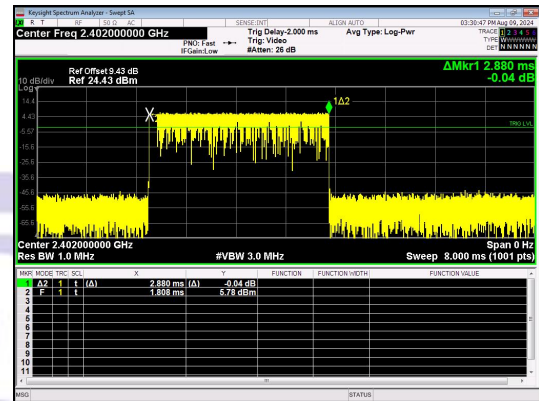


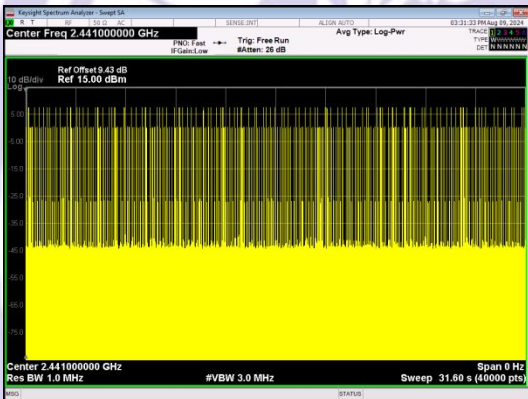
Number of Pulses in 31.6 seconds

8DPSK_3-DHS



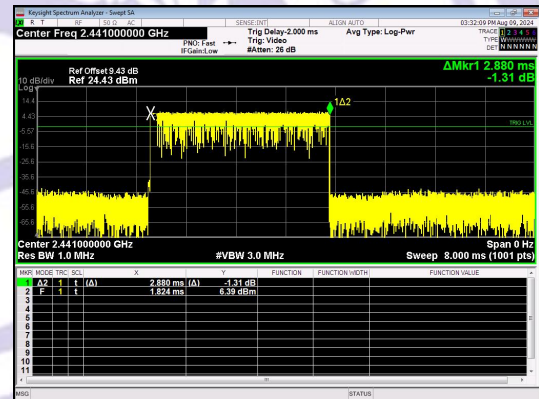
Pulse Width

8DPSK_3-DHS



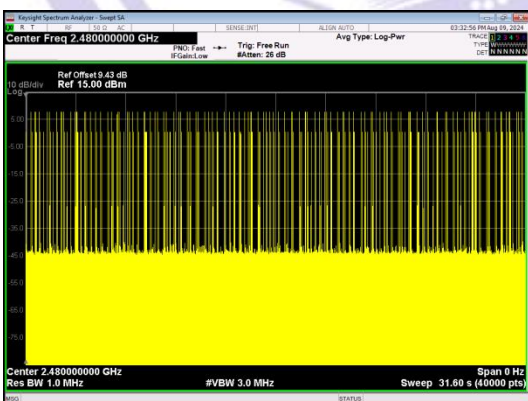
Number of Pulses in 31.6 seconds

8DPSK_3-DHS



Pulse Width

8DPSK_3-DHS



Number of Pulses in 31.6 seconds	Pulse Width
8DPSK_3-DH5	8DPSK_3-DH5

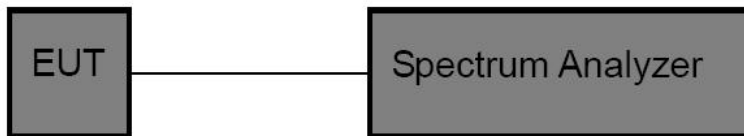


13 100kHz Bandwidth of Frequency Band Edge Requirement

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 is 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

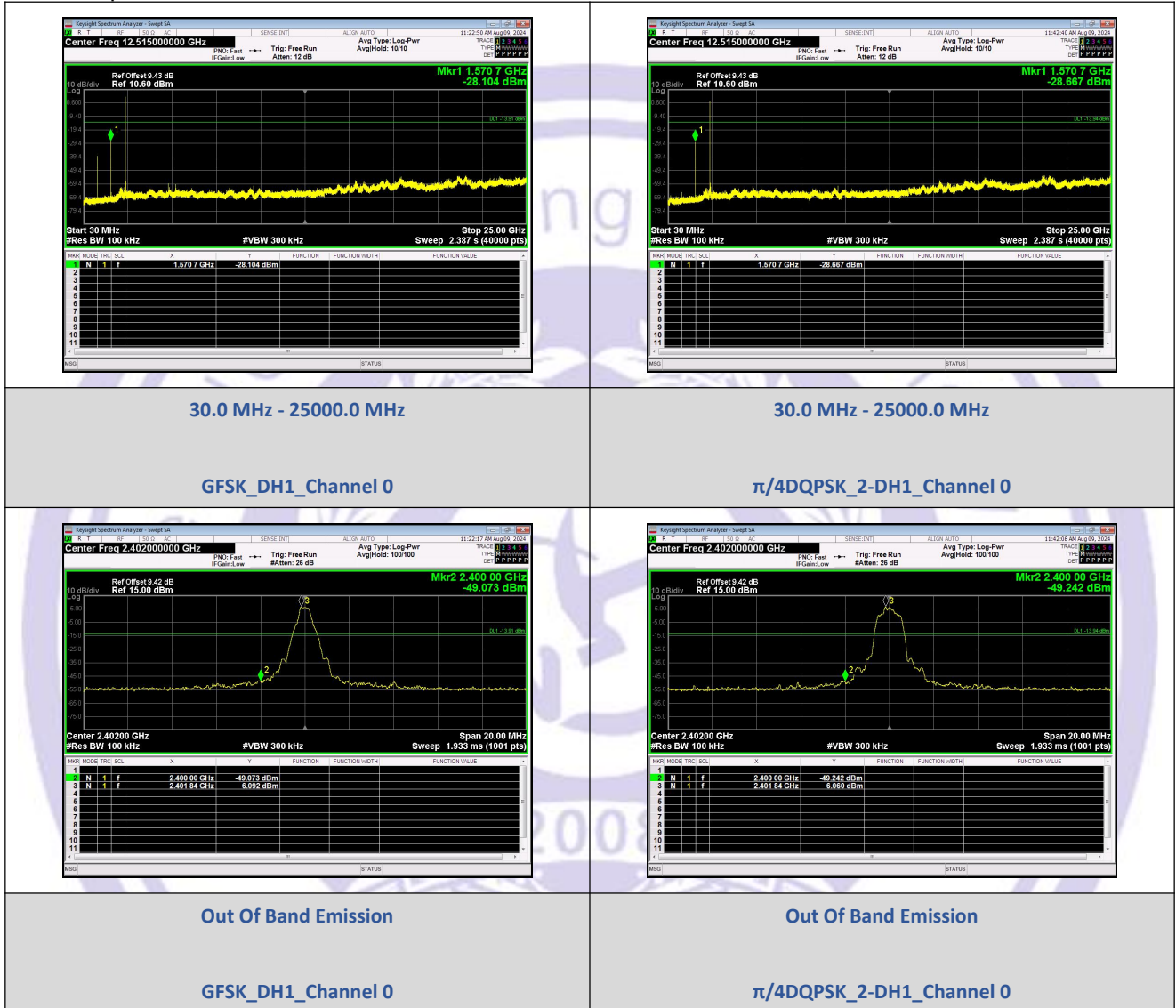
Modulation	Packet	Channel	OOB Emission Frequency (MHz)	OOB Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result	
GFSK	DH1	0	1570.69	-28.104	-13.91	-14.194	PASS	
			2400.00	-49.073	-13.91	-35.163	PASS	
		39	1570.69	-36.066	-13.46	-22.606	PASS	
			78	828.44	-36.345	-13.32	-23.025	PASS
				2483.50	-50.612	-13.32	-37.292	PASS
$\pi/4$ DQPSK	2-DH1	0	1570.69	-28.667	-13.94	-14.727	PASS	
			2400.00	-49.242	-13.94	-35.302	PASS	
		39	1571.31	-47.053	-13.56	-33.493	PASS	
			78	1569.44	-45.129	-13.28	-31.849	PASS
				2483.50	-52.424	-13.28	-39.144	PASS
8DPSK	3-DH1	0	1569.44	-37.093	-13.96	-23.133	PASS	
			2400.00	-49.909	-13.96	-35.949	PASS	
		39	1570.06	-38.485	-13.63	-24.855	PASS	
			78	1569.44	-42.237	-13.34	-28.897	PASS
				2483.50	-52.683	-13.34	-39.343	PASS

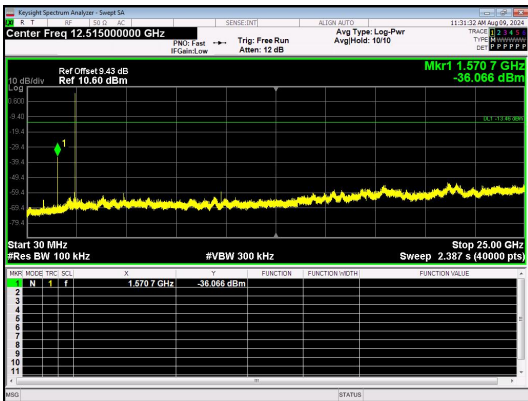
Hopping

Modulation	Packet	Channel	OOB Emission Frequency (MHz)	OOB Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result
GFSK	DH1	Hopping	2400.00	-47.810	-13.79	-34.020	PASS
			2483.50	-52.346	-13.24	-39.106	PASS
$\pi/4$ DQPSK	2-DH1		2400.00	-50.232	-13.82	-36.412	PASS
			2483.50	-51.768	-13.24	-38.528	PASS
8DPSK	3-DH1		2400.00	-49.289	-13.79	-35.499	PASS

			2483.50	-53.107	-13.28	-39.827	PASS
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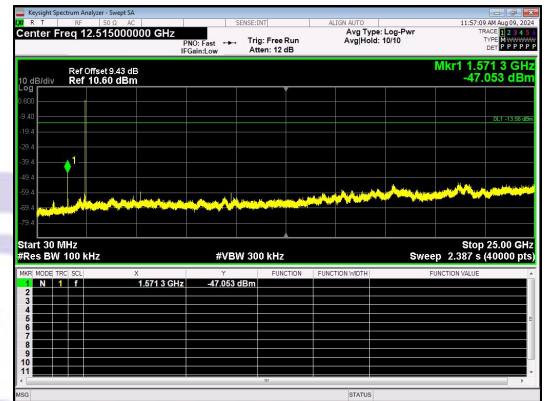
Test Graphs





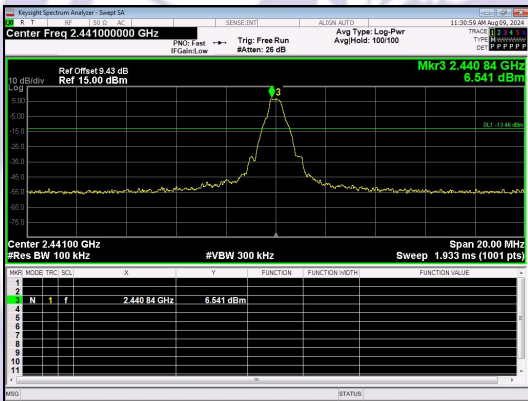
30.0 MHz - 25000.0 MHz

GFSK_DH1_Channel 39



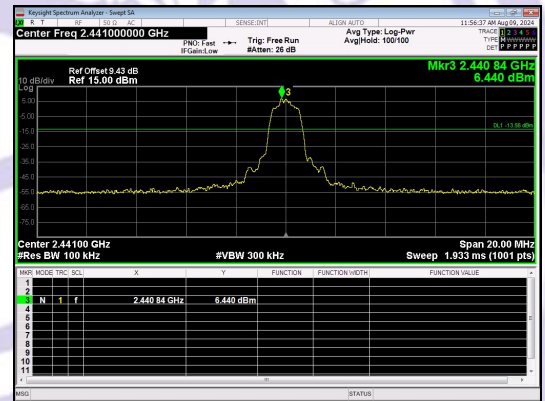
30.0 MHz - 25000.0 MHz

$\pi/4$ DQPSK_2-DH1_Channel 39



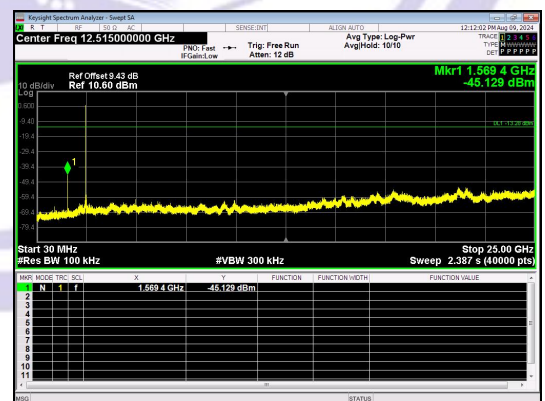
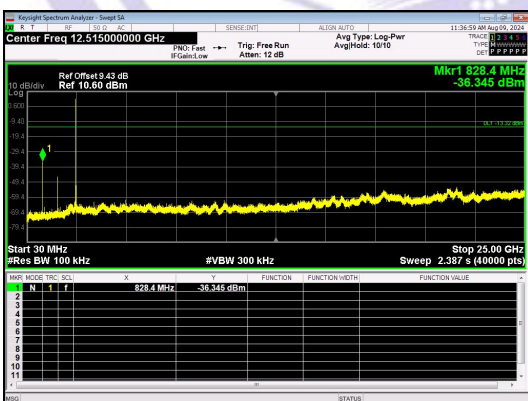
Out Of Band Emission

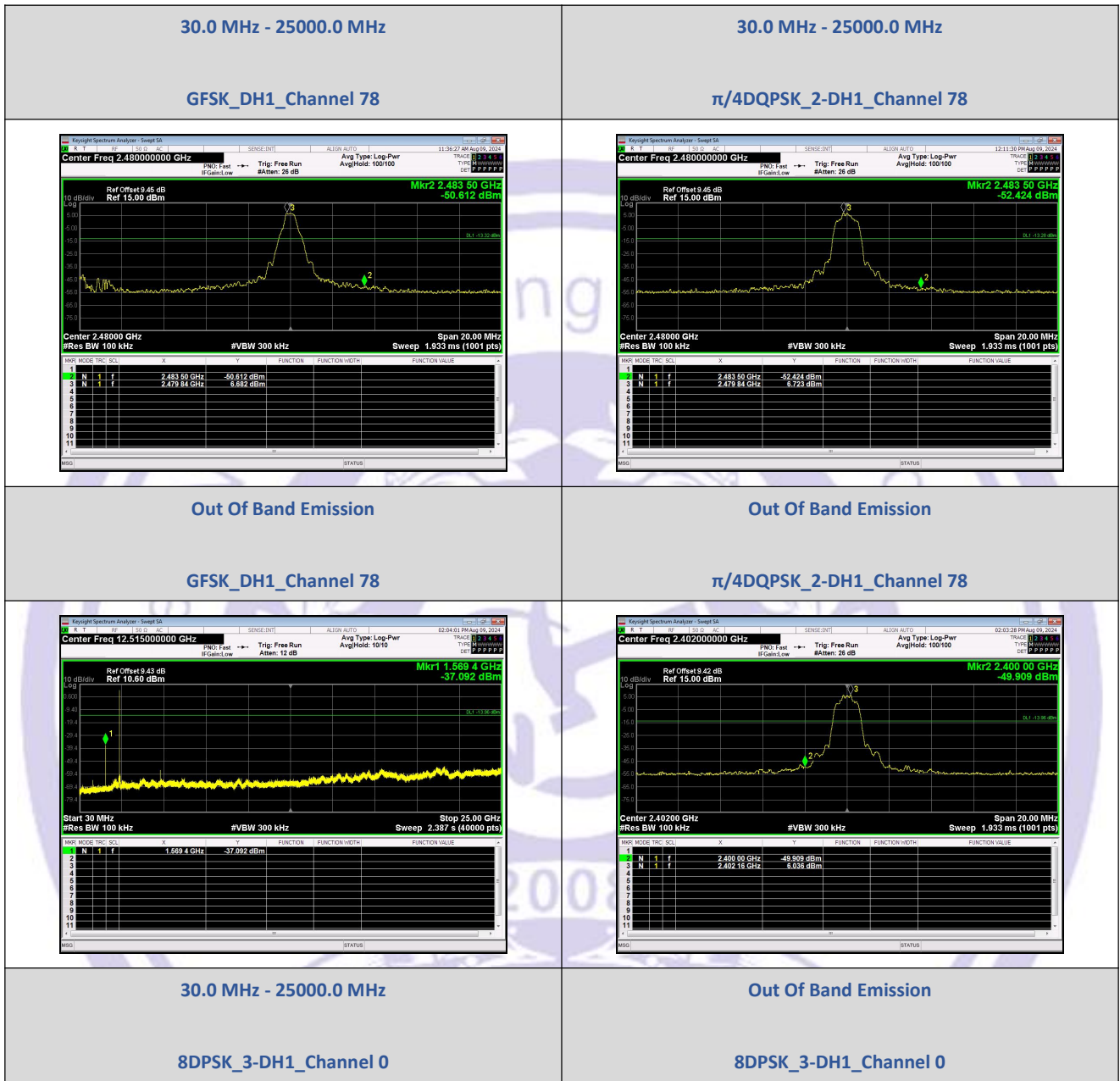
GFSK_DH1_Channel 39

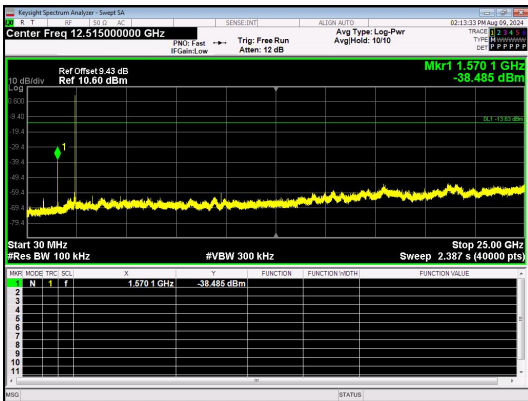


Out Of Band Emission

$\pi/4$ DQPSK_2-DH1_Channel 39

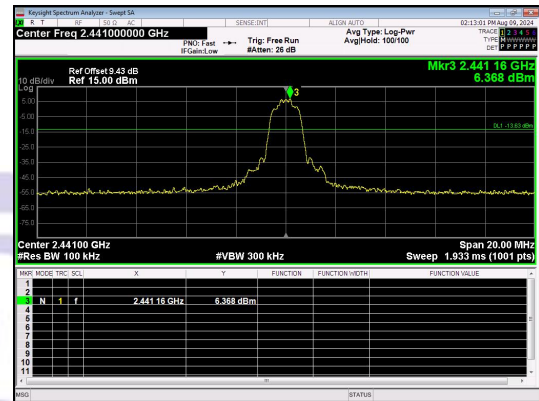






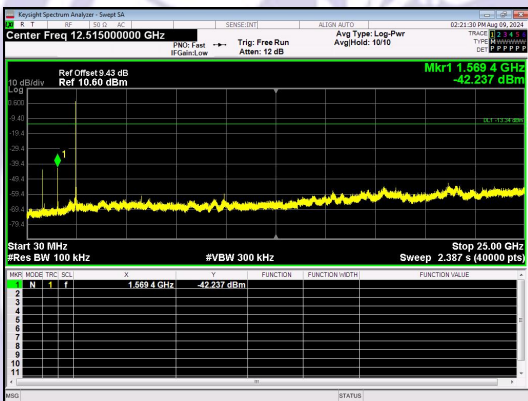
30.0 MHz - 25000.0 MHz

8DPSK_3-DH1_Channel 39



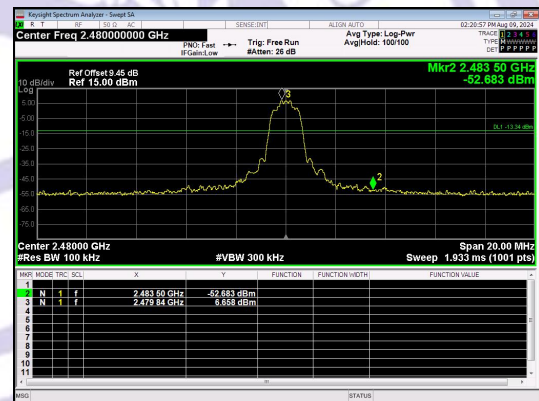
Out Of Band Emission

8DPSK_3-DH1_Channel 39



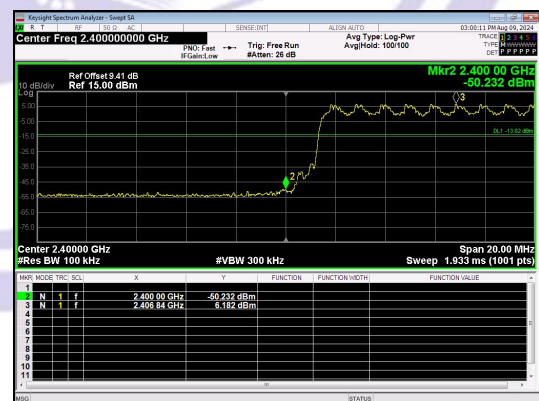
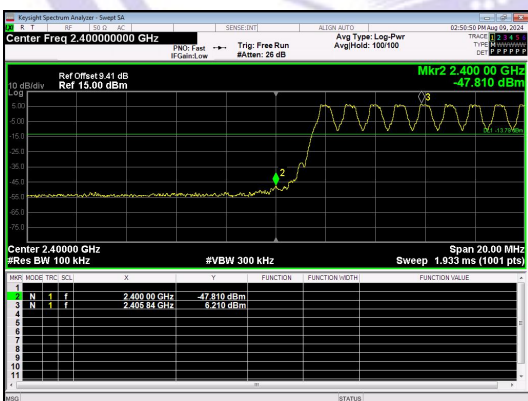
30.0 MHz - 25000.0 MHz

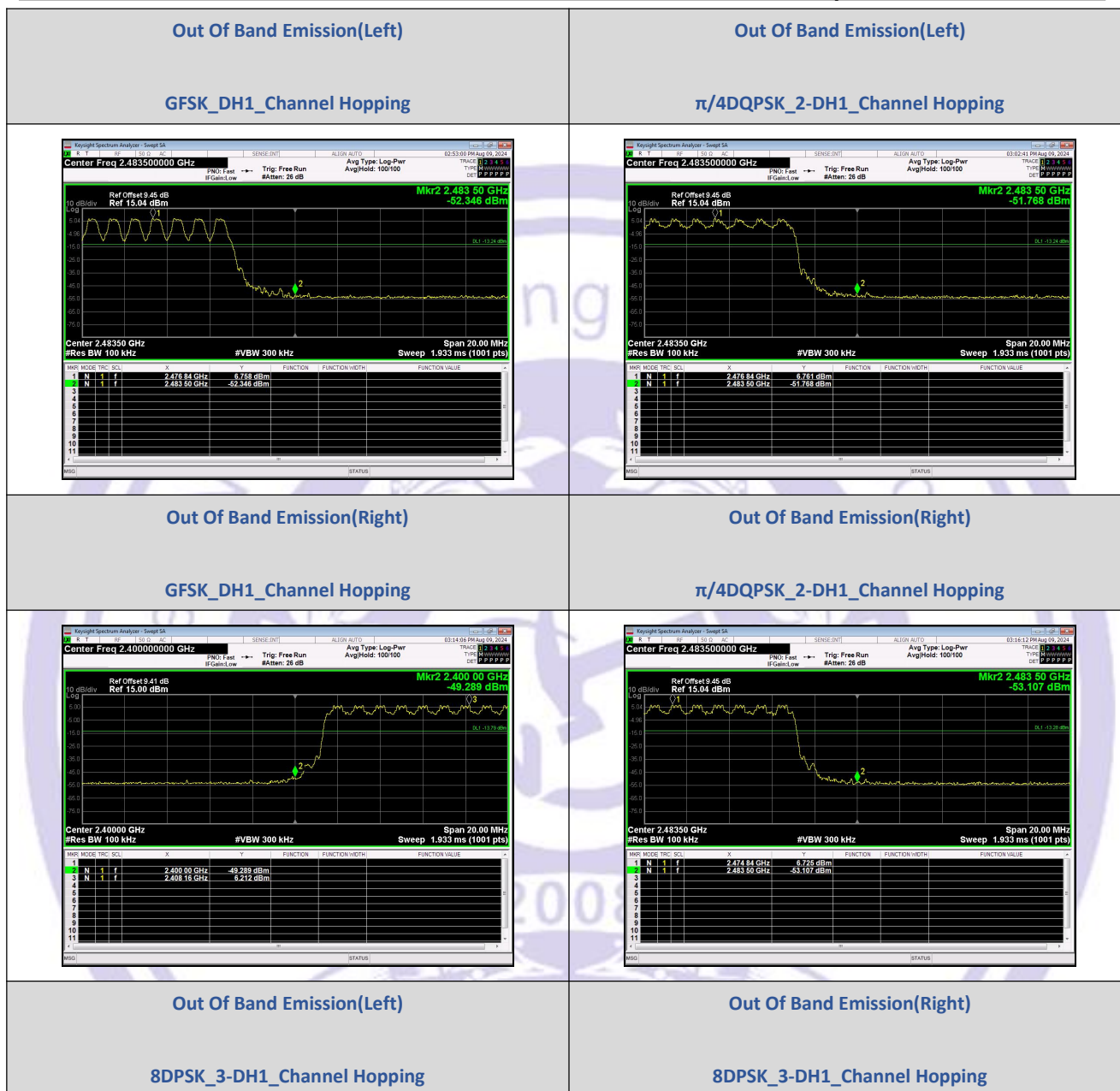
8DPSK_3-DH1_Channel 78



Out Of Band Emission

8DPSK_3-DH1_Channel 78





14 Antenna Requirement

14.1 Test Standard and Requirement

Test Standard	FCC Part15 Section 15.203 /247(c) & RSS-Gen 6.8
Requirement	<p>1) 15.203 requirement:</p> <p>An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.</p> <p>2) 15.247(c) (1)(i) requirement:</p> <p>Systems operating in the 2400-2483.5 MHz band that is used exclusively for fixed. Point-to-point operations may employ transmitting antennas with directional gain greater than 6dBi provided the maximum conducted output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6 dBi.</p>

14.2 Antenna Connected Construction

The antenna is PCB Antenna which permanently attached, and the best case gain of the antenna is 3.28dBi. It complies with the standard requirement.

15 APPENDIX I -- TEST SETUP PHOTOGRAPH

Please see the attachment for details.



16 APPENDIX II -- EUT PHOTOGRAPH

Please see the attachment for details.

----- End of Report -----

