E.U.T:	Bluetooth decoder
Model Number:	GO blu Air
Trade Name:	ifi
Sample Number:	33000250160
Date of Receipt:	Aug. 01, 2025
Date of Test:	Aug. 01 ~ Sep. 04, 2025
FCC ID:	2A5QJ-GOBLUAIR

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	3.64	2.32	None	≤30	PASS
		39	3.20	2.09	None		PASS
		78	2.21	1.66	None		PASS
π/4DQPSK	2-DH1	0	3.33	2.15	None		PASS
		39	2.88	1.94	None		PASS
		78	1.89	1.55	None		PASS
8DPSK	3-DH1	0	3.84	2.42	None		PASS
		39	3.43	2.20	None		PASS
		78	2.44	1.75	None		PASS

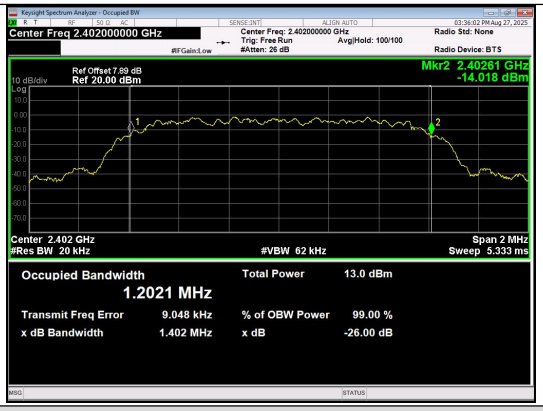
A.2 99% BANDWIDTH

Test Result

Modulation	Channel	Center Frequency (MHz)	99% BW (MHz)
GFSK	0	2402	0.88467
	39	2441	0.88472
	78	2480	0.88483
π/4DQPSK	0	2402	1.2021
	39	2441	1.2024
	78	2480	1.1997
8DPSK	0	2402	1.2065
	39	2441	1.2068
	78	2480	1.2051

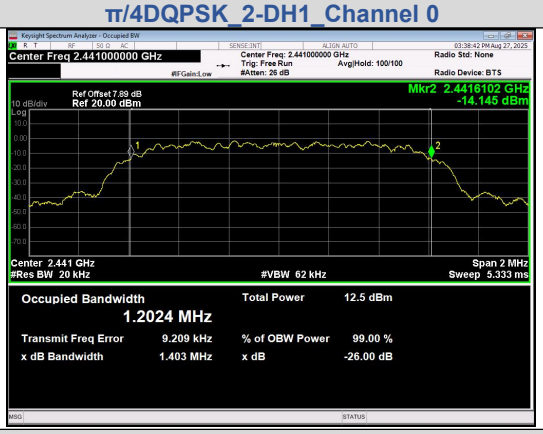
Test Graphs

GFSK_DH1_Channel 0



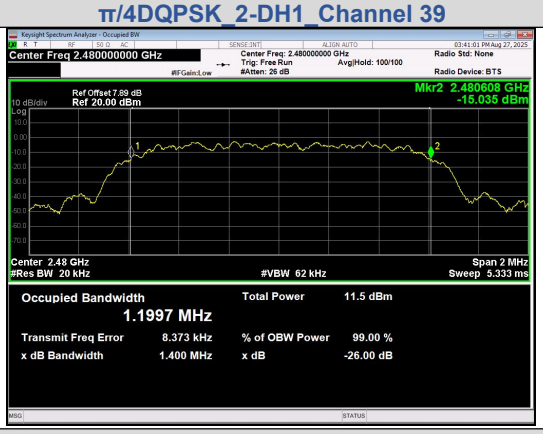
π/4DQPSK_2-DH1_Channel 0

GFSK_DH1_Channel 39

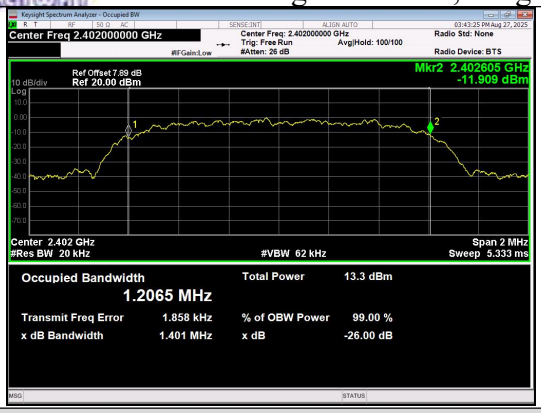


π/4DQPSK_2-DH1_Channel 39

GFSK_DH1_Channel 78

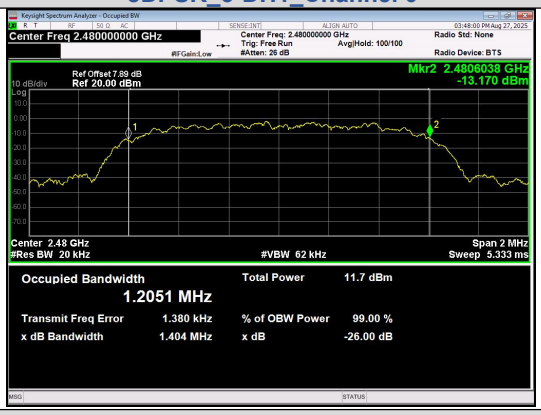


π/4DQPSK_2-DH1_Channel 78



8DPSK_3-DH1_Channel 0

8DPSK_3-DH1_Channel 39



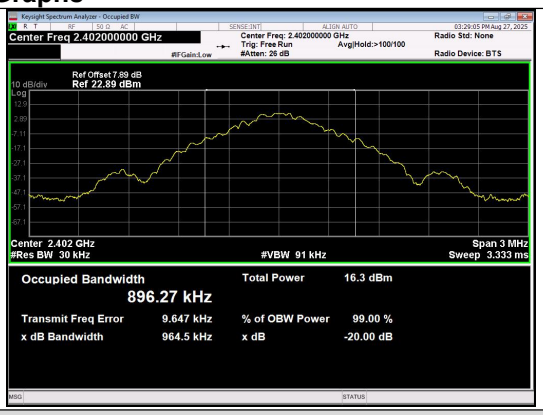
8DPSK_3-DH1_Channel 78

A.3 20DB BANDWIDTH

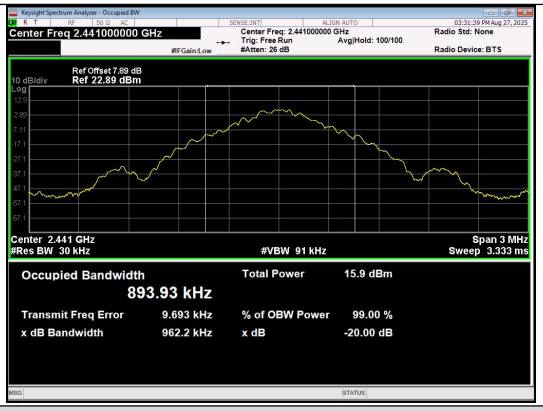
Test Result

Modulation	Channel	Center Frequency (MHz)	20 dB Bandwidth (MHz)
GFSK	0	2402 MHz	0.9600
	39	2441 MHz	0.9600
	78	2480 MHz	0.9600
π/4DQPSK	0	2402 MHz	1.370
	39	2441 MHz	1.370
	78	2480 MHz	1.370
8DPSK	0	2402 MHz	1.350
	39	2441 MHz	1.350
	78	2480 MHz	1.350

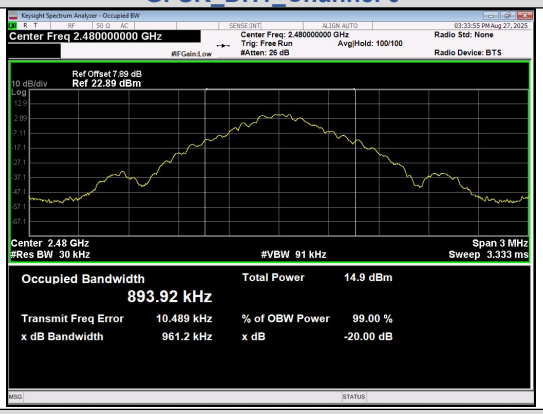
Test Graphs



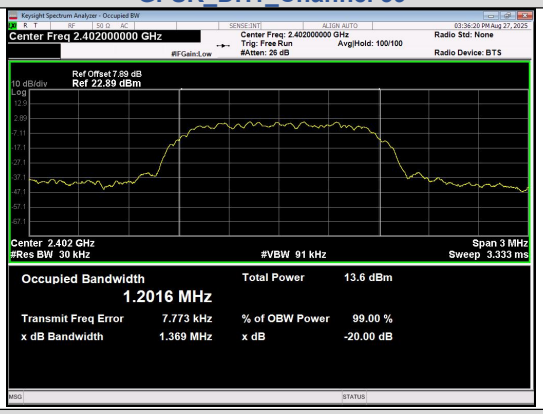
GFSK_DH1_Channel 0



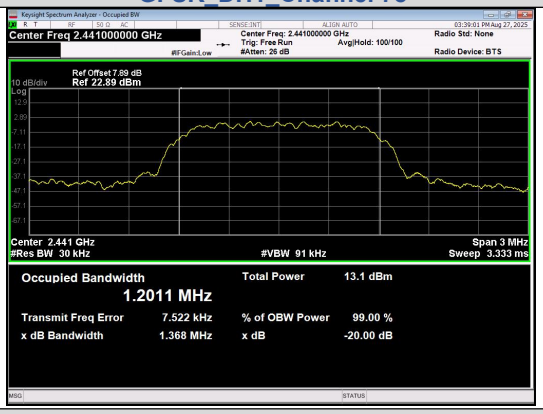
GFSK_DH1_Channel 39



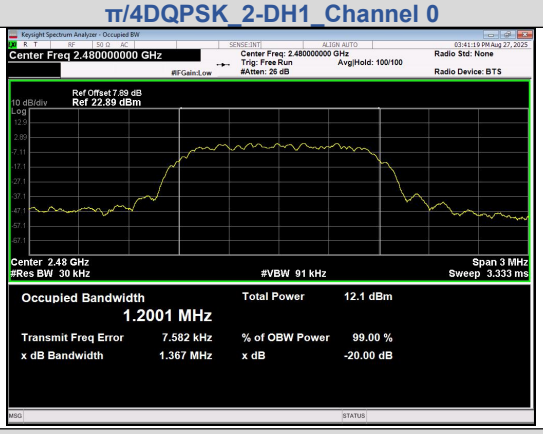
GFSK_DH1_Channel 78



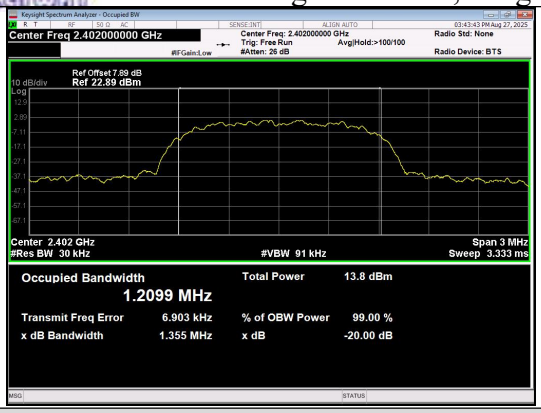
π/4DQPSK_2-DH1_Channel 0



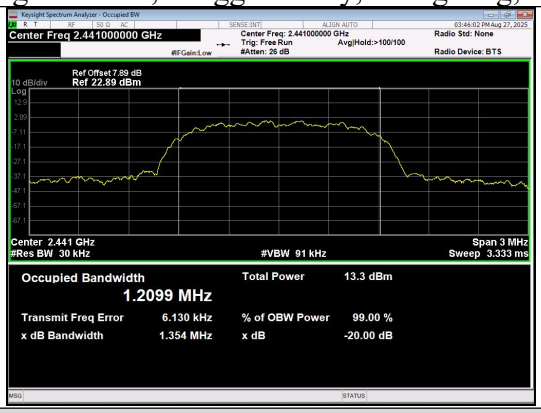
π/4DQPSK_2-DH1_Channel 39



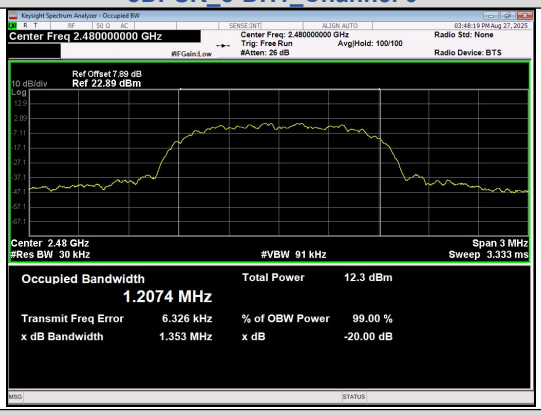
π/4DQPSK_2-DH1_Channel 78



8DPSK_3-DH1_Channel 0



8DPSK_3-DH1_Channel 39



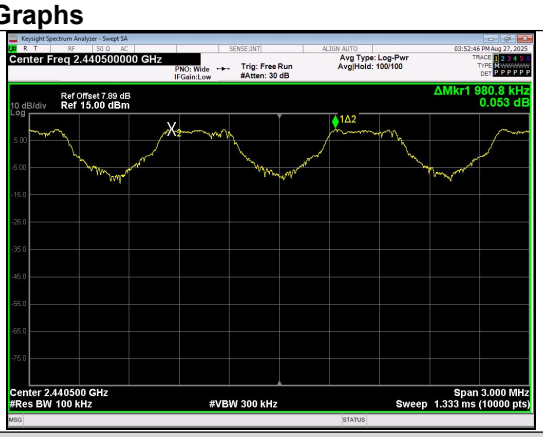
8DPSK_3-DH1_Channel 78

A.4 CARRIER FREQUENCIES SEPARATION

Test Result

Modulation	Packet	Left Center frequency (MHz)	Right Center frequency (MHz)	Hopping Frequency Separation (MHz)	Limit (MHz)	Result
GFSK	DH1	2439.8554	2440.8362	0.9808	0.64	PASS
π/4DQPSK	2-DH1	2439.8404	2440.8479	1.0075	0.913	PASS
8DPSK	3-DH1	2439.8455	2440.8479	1.0024	0.9	PASS

Test Graphs



GFSK

π/4DQPSK

8DPSK

A.5 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	DH1	0	2400.00	-47.840	-10.61	-37.230	PASS
			21187.6	-46.691	-10.61	-36.081	PASS
		39	21135.2	-46.613	-11.04	-35.573	PASS
		78	2483.50	-53.080	-12.0	-41.080	PASS
			21167.0	-46.020	-12.0	-34.020	PASS
π/4DQPSK	2-DH1	0	2400.00	-49.150	-14.64	-34.510	PASS
			21122.7	-47.129	-14.64	-32.489	PASS
		39	21149.5	-47.121	-15.26	-31.861	PASS
		78	2483.50	-53.270	-16.19	-37.080	PASS
			21612.1	-46.911	-16.19	-30.721	PASS
8DPSK	3-DH1	0	2400.00	-48.290	-14.47	-33.820	PASS
			21178.2	-45.879	-14.47	-31.409	PASS
		39	24877.0	-46.789	-14.97	-31.819	PASS
		78	2483.50	-53.520	-16.03	-37.490	PASS
			21585.9	-45.855	-16.03	-29.825	PASS

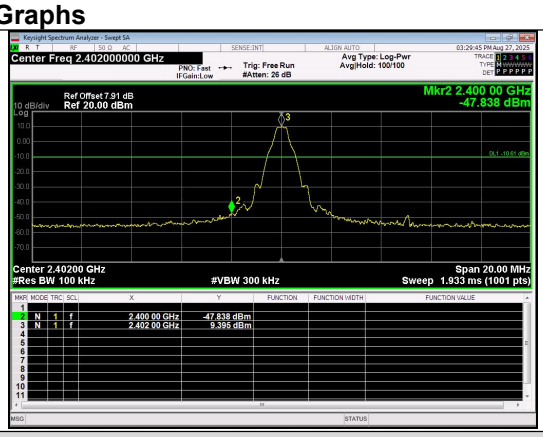
Note: input compensation coeffcient (dB)= Cable Loss (dB)

Hopping

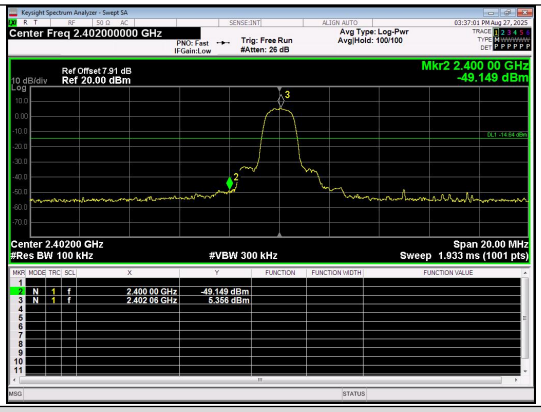
Modulation	Packet	Channel	OOB Emission Frequency (MHz)	OOB Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result
GFSK	DH1	Hopping	2400.00	-44.680	-10.25	-34.430	PASS
			2483.50	-52.190	-11.71	-40.480	PASS
π/4DQPSK	2-DH1		2400.00	-46.330	-12.96	-33.370	PASS
			2483.50	-54.920	-14.6	-40.320	PASS
8DPSK	3-DH1		2400.00	-47.350	-13.03	-34.320	PASS
			2483.50	-54.840	-14.55	-40.290	PASS

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

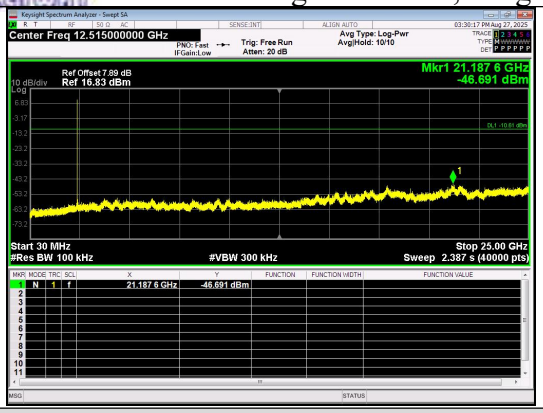
Test Graphs



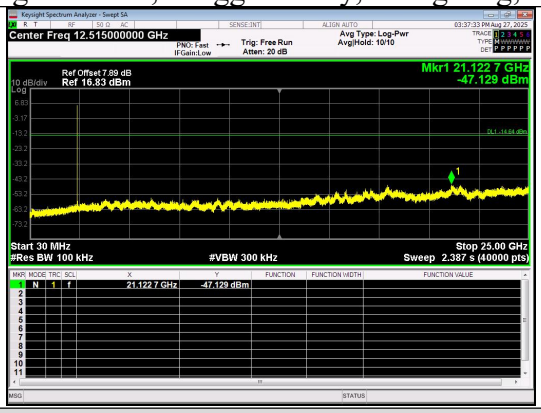
Out Of Band Emission
GFSK_DH1_Channel 0



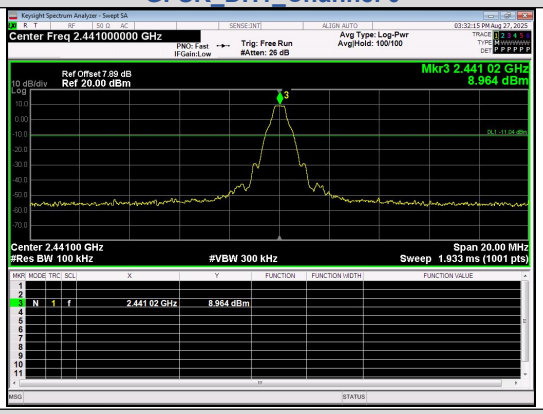
Out Of Band Emission
π/4DQPSK_2-DH1_Channel 0



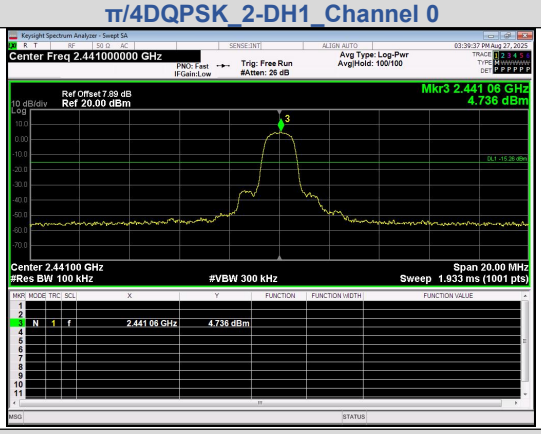
30.0 MHz - 25000.0 MHz
GFSK_DH1_Channel 0



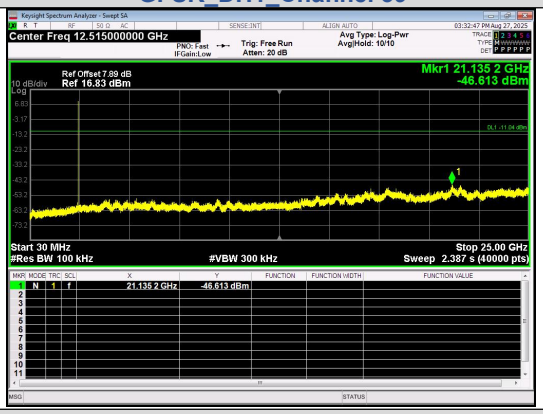
30.0 MHz - 25000.0 MHz
π/4DQPSK_2-DH1_Channel 0



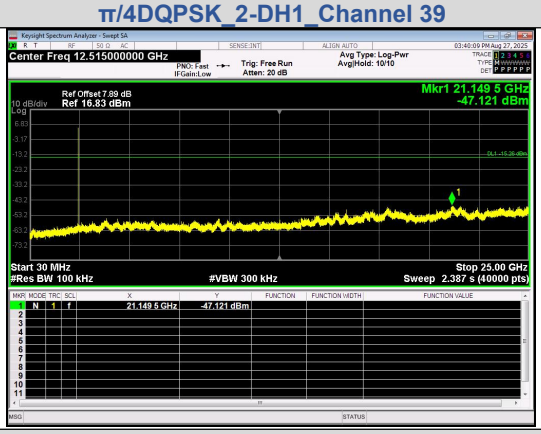
Out Of Band Emission
GFSK_DH1_Channel 39



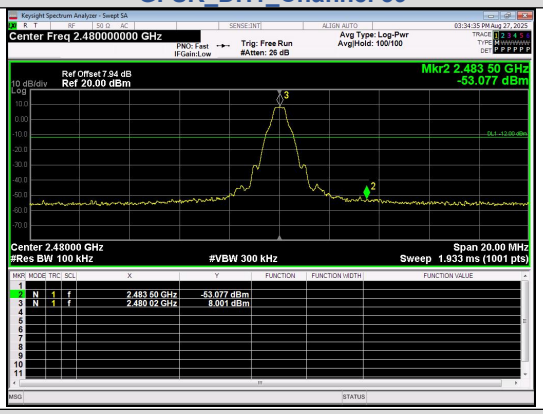
Out Of Band Emission
π/4DQPSK_2-DH1_Channel 39



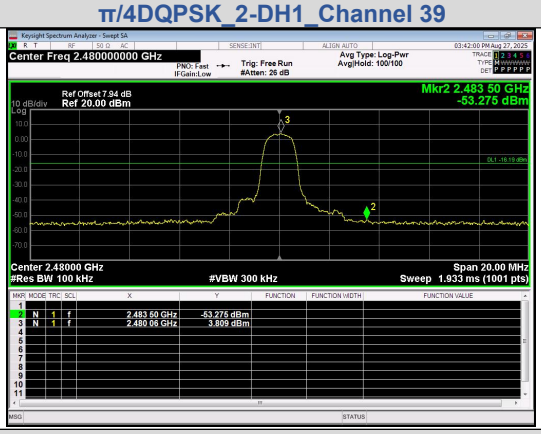
30.0 MHz - 25000.0 MHz
GFSK_DH1_Channel 39



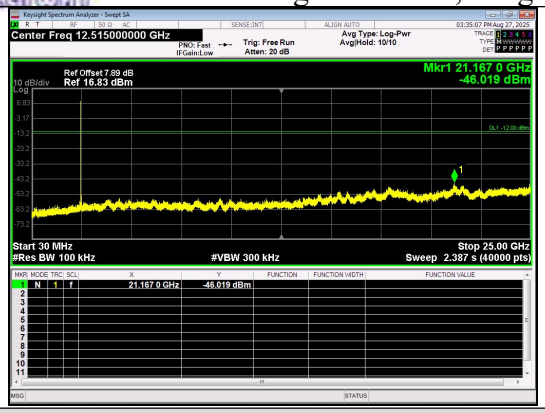
30.0 MHz - 25000.0 MHz
π/4DQPSK_2-DH1_Channel 39



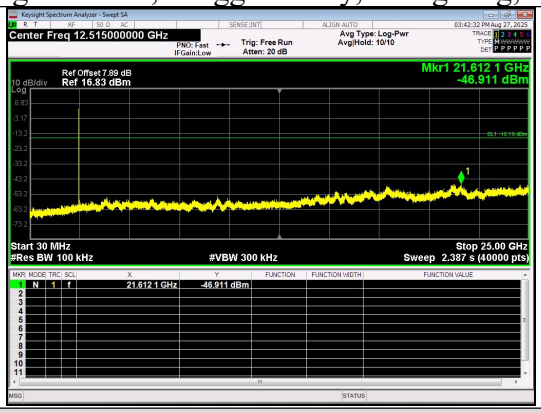
Out Of Band Emission
GFSK_DH1_Channel 78



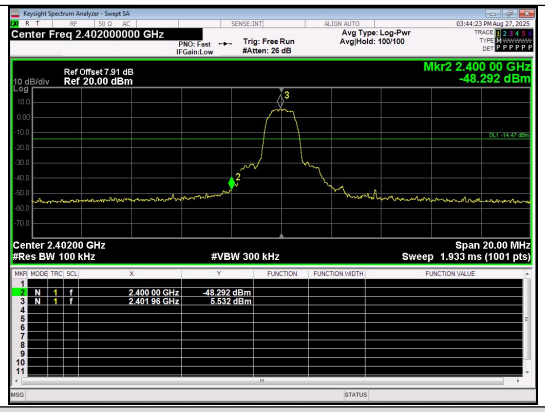
Out Of Band Emission
π/4DQPSK_2-DH1_Channel 78



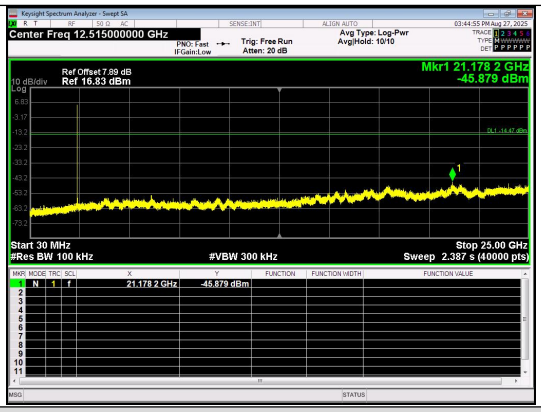
30.0 MHz - 25000.0 MHz
GFSK_DH1_Channel 78



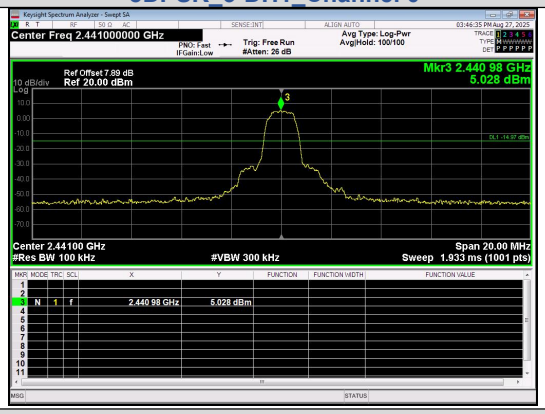
30.0 MHz - 25000.0 MHz
π/4DQPSK_2-DH1_Channel 78



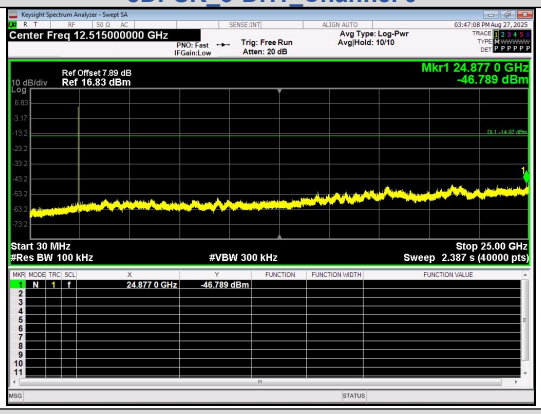
Out Of Band Emission
8DPSK_3-DH1_Channel 0



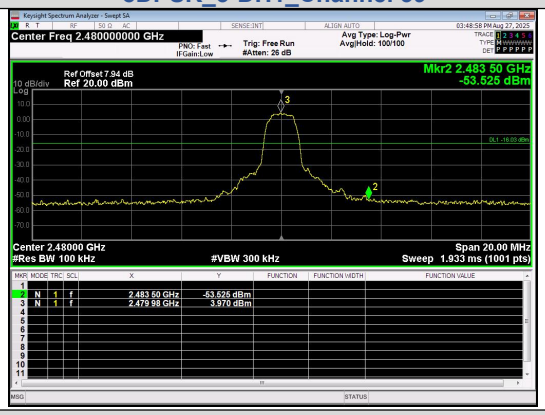
30.0 MHz - 25000.0 MHz
8DPSK_3-DH1_Channel 0



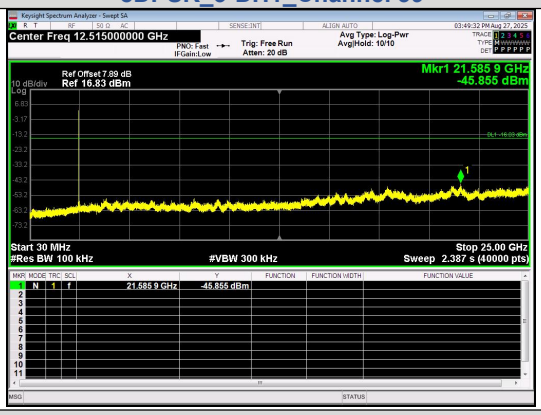
Out Of Band Emission
8DPSK_3-DH1_Channel 39



30.0 MHz - 25000.0 MHz
8DPSK_3-DH1_Channel 39



Out Of Band Emission
8DPSK_3-DH1_Channel 78



30.0 MHz - 25000.0 MHz
8DPSK_3-DH1_Channel 78