



E.U.T:	HiFire X Audiophile Turntable System
Model Number:	HP-H2408
Trade Name:	N/A
Sample Number:	33000249106
Date of Receipt:	Jul 07, 2025
Date of Test:	Jul 07, 2025 ~ Jul. 29, 2025
FCC ID:	2BFHV-HP-2408
IC:	33074-HPH2408

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	2.90	1.95	None	≤30	PASS
		39	0.69	1.17	None		PASS
		78	-1.61	0.69	None		PASS
π/4DQPSK	2-DH1	0	2.80	1.91	None		PASS
		39	0.64	1.16	None		PASS
		78	-1.66	0.68	None		PASS
8DPSK	3-DH1	0	3.09	2.04	None		PASS
		39	0.96	1.25	None		PASS
		78	-1.27	0.75	None		PASS

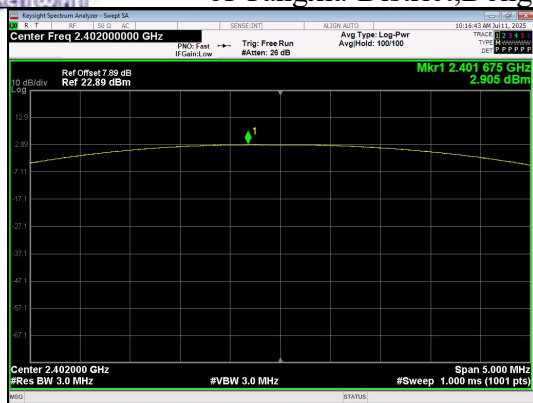
Modulation	Packet Type	Channel	Peak Output Power (dBm)	Peak Power Limit (dBm)	Antenna Gain (dBi)	ISED EIRP (dBm)	ISED EIRP Limit (dBm)	Max. Avg. Power (dBm)	Result
GFSK	DH1	0	2.90	≤30	2.81	5.71	≤36.02	None	PASS
		39	0.69	≤30	2.81	3.50	≤36.02	None	PASS
		78	-1.61	≤30	2.81	1.20	≤36.02	None	PASS
π/4DQPSK	2-DH1	0	2.80	≤30	2.81	5.61	≤36.02	None	PASS
		39	0.64	≤30	2.81	3.45	≤36.02	None	PASS
		78	-1.66	≤30	2.81	1.15	≤36.02	None	PASS
8DPSK	3-DH1	0	3.09	≤30	2.81	5.90	≤36.02	None	PASS
		39	0.96	≤30	2.81	3.77	≤36.02	None	PASS
		78	-1.27	≤30	2.81	1.54	≤36.02	None	PASS

Note: ISED EIRP (dBm) =Peak Output Power (dBm) +Antenna Gain (dBi)

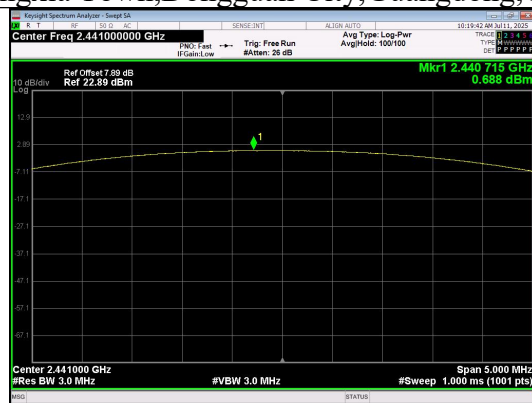
Test Graphs



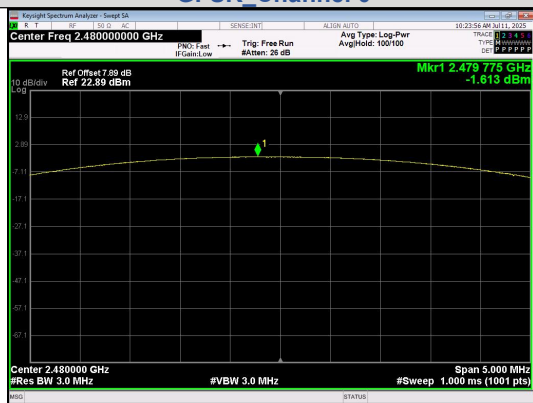
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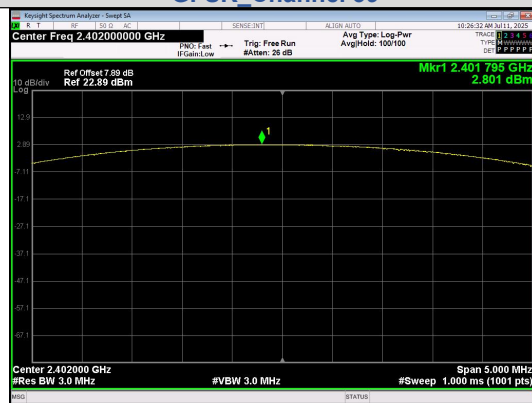
Peak Output Power
GFSK_Channel 0



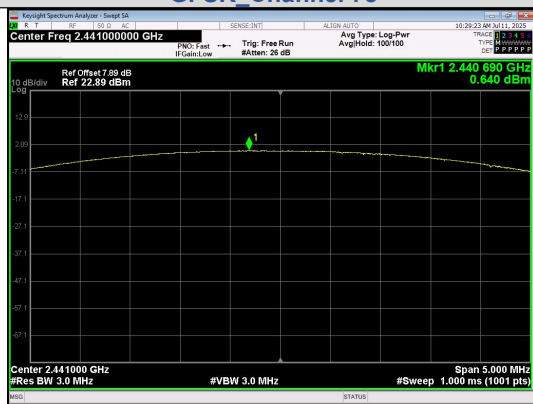
Peak Output Power
GFSK_Channel 39



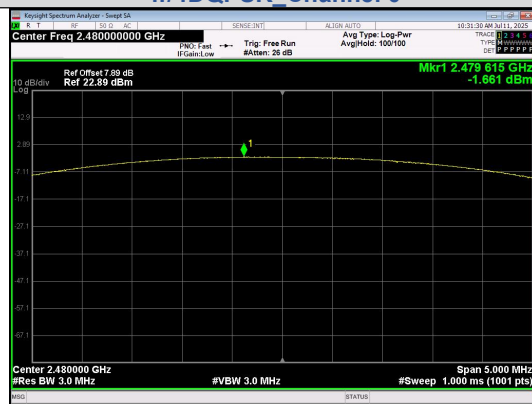
Peak Output Power
GFSK_Channel 78



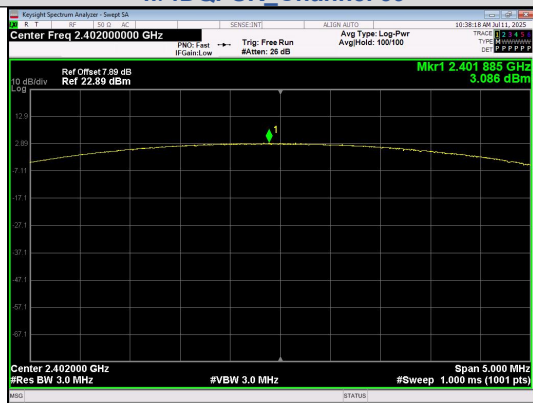
Peak Output Power
 $\pi/4$ DQPSK_Channel 0



Peak Output Power
 $\pi/4$ DQPSK_Channel 39



Peak Output Power
 $\pi/4$ DQPSK_Channel 78



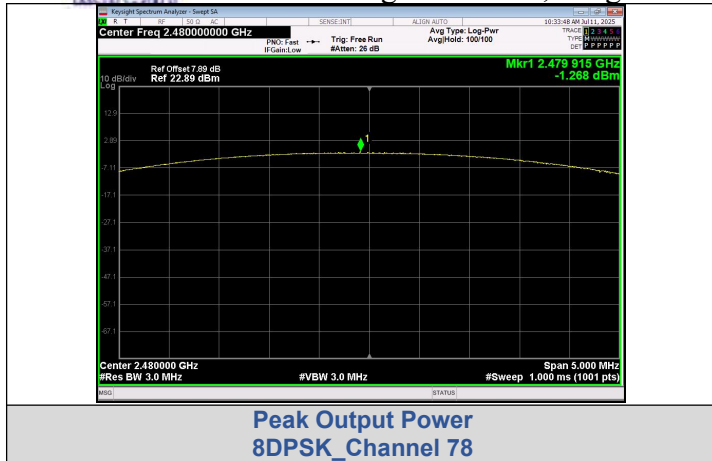
Peak Output Power
8DPSK_Channel 0



Peak Output Power
8DPSK_Channel 39



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A.2 99% BANDWIDTH

Test Result

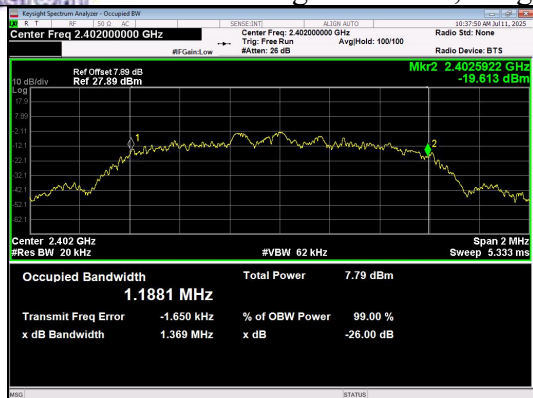
Modulation	Channel	Center Frequency (MHz)	99% BW (MHz)
GFSK	0	2402	0.85142
	39	2441	0.86414
	78	2480	0.86433
π /4DQPSK	0	2402	1.1717
	39	2441	1.1635
	78	2480	1.1623
8DPSK	0	2402	1.1881
	39	2441	1.1677
	78	2480	1.1746

Test Graphs

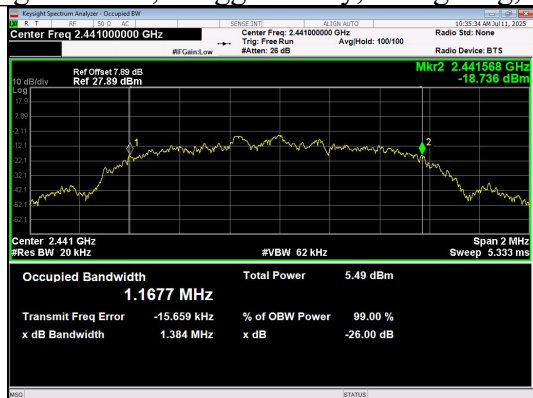




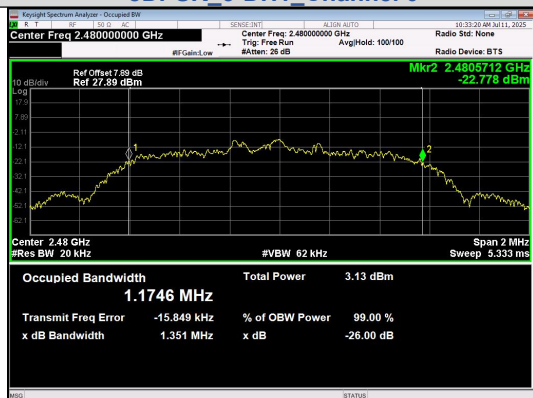
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8DPSK_3-DH1_Channel 0



8DPSK_3-DH1_Channel 39



8DPSK_3-DH1_Channel 78



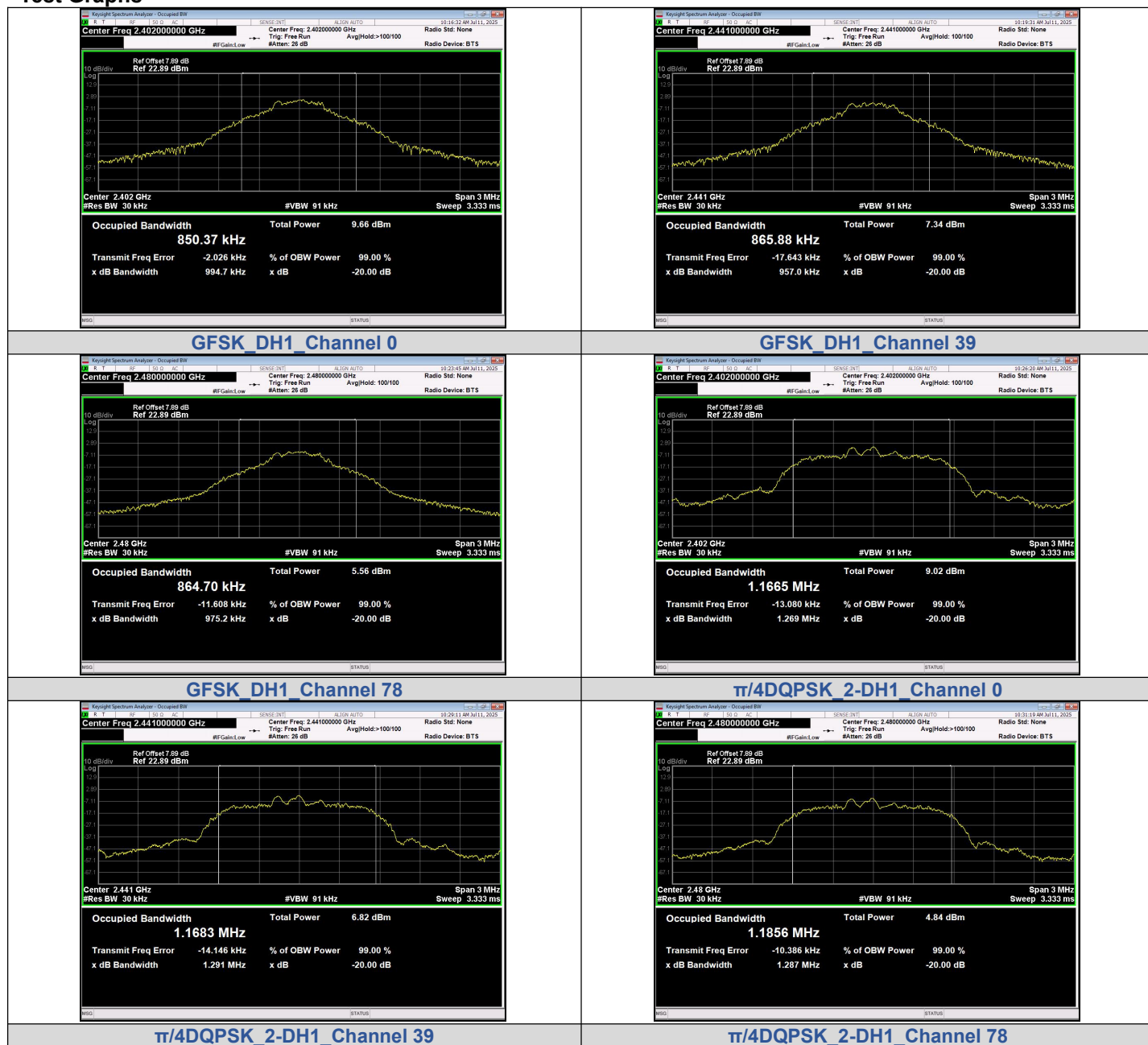
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A.3 20DB BANDWIDTH

Test Result

Modulation	Channel	Center Frequency (MHz)	20 dB Bandwidth (MHz)
GFSK	0	2402 MHz	0.9947
	39	2441 MHz	0.9570
	78	2480 MHz	0.9752
π /4DQPSK	0	2402 MHz	1.269
	39	2441 MHz	1.291
	78	2480 MHz	1.287
8DPSK	0	2402 MHz	1.298
	39	2441 MHz	1.298
	78	2480 MHz	1.282

Test Graphs

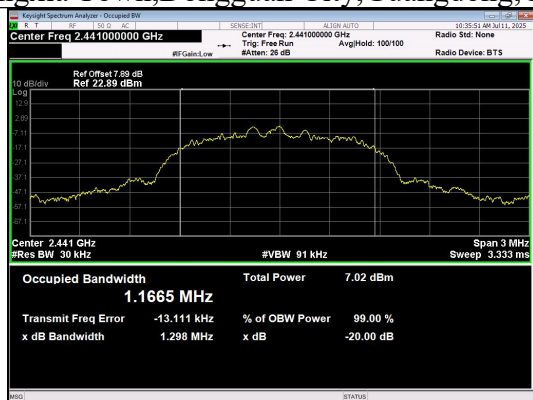




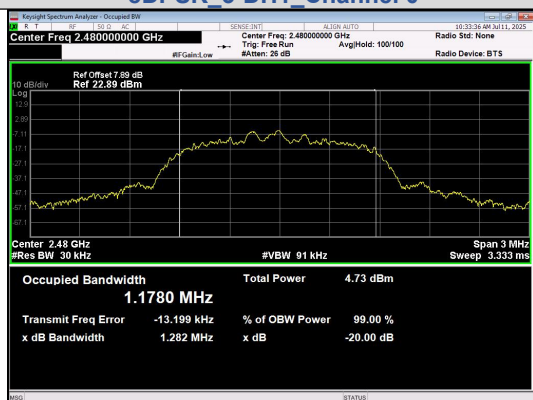
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8DPSK 3-DH1_Channel 0



8DPSK 3-DH1_Channel 39



8DPSK 3-DH1_Channel 78



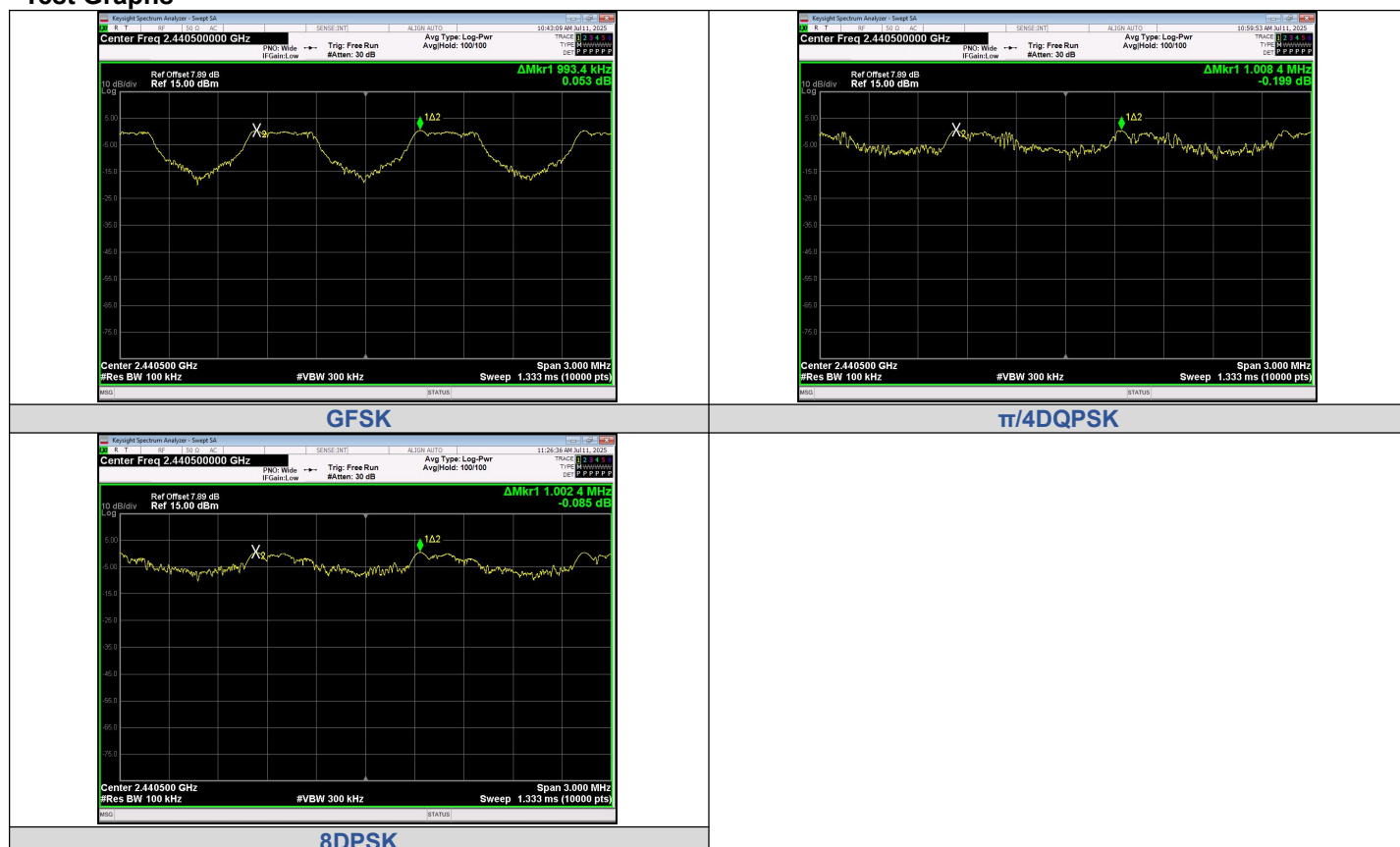
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A.4 CARRIER FREQUENCIES SEPARATION

Test Result

Modulation	Packet	Left Center frequency (MHz)	Right Center frequency (MHz)	Hopping Frequency Separation (MHz)	Limit (MHz)	Result
GFSK	DH1	2439.8371	2440.8305	0.9934	0.663	PASS
$\pi/4$ DQPSK	2-DH1	2439.8332	2440.8416	1.0084	0.861	PASS
8DPSK	3-DH1	2439.8308	2440.8332	1.0024	0.865	PASS

Test Graphs





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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	-41.582	-17.29	-24.292	PASS
			4803.76	-39.564	-17.29	-22.274	PASS
		39	4881.79	-42.550	-19.47	-23.080	PASS
			2483.50	-56.149	-21.79	-34.359	PASS
			21168.9	-46.764	-21.79	-24.974	PASS
$\pi/4$ DQPSK	2-DH1	0	2400.00	-41.316	-17.39	-23.926	PASS
			4803.76	-40.551	-17.39	-23.161	PASS
		39	4882.42	-42.457	-19.52	-22.937	PASS
			2483.50	-55.777	-21.82	-33.957	PASS
			21210.7	-46.602	-21.82	-24.782	PASS
8DPSK	3-DH1	0	2400.00	-41.722	-17.46	-24.262	PASS
			4803.76	-41.829	-17.46	-24.369	PASS
		39	2344.78	-45.528	-19.59	-25.938	PASS
			2336.04	-45.781	-21.81	-23.971	PASS
			2483.50	-55.673	-21.81	-33.863	PASS

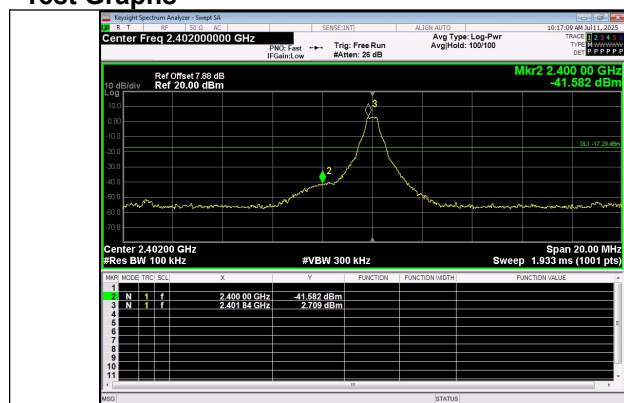
Note: input compensation coefficient (dB)= Cable Loss (dB)

Hopping

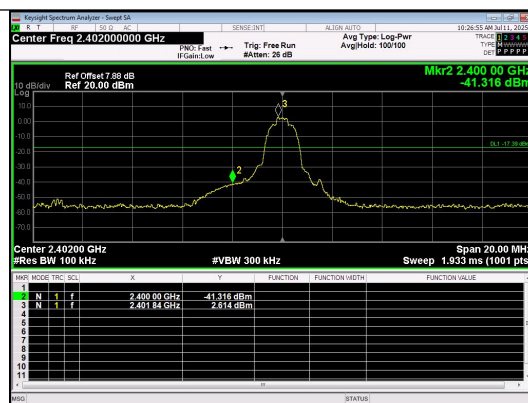
Hopping							
Modulation	Packet	Channel	OOB Emission Frequency (MHz)	OOB Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result
GFSK	DH1	Hopping	2400.00	-41.231	-17.45	-23.781	PASS
			2483.50	-55.059	-21.43	-33.629	PASS
$\pi/4$ DQPSK	2-DH1		2400.00	-41.761	-17.44	-24.321	PASS
			2483.50	-55.807	-21.45	-34.357	PASS
8DPSK	3-DH1		2400.00	-41.858	-17.44	-24.418	PASS
			2483.50	-55.914	-21.44	-34.474	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



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