

Appendix

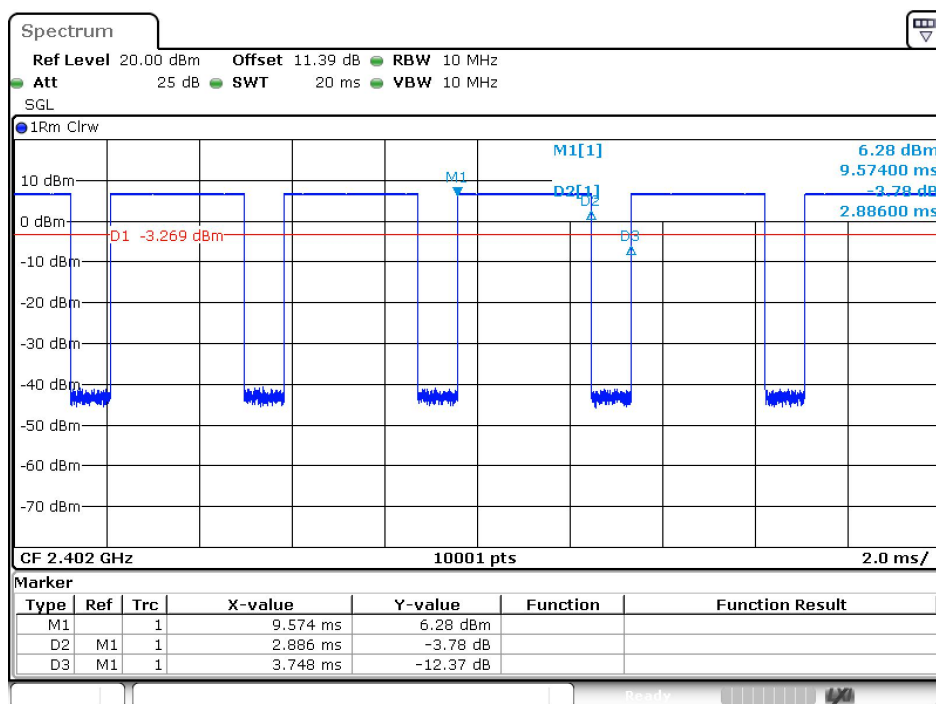
Report No.:	CISRR241105022
FCC ID:	2BL49-Q70
Product Name:	Audio digital products
Model No.:	Q70
Test Engineer:	Lucas Huang
Supervised by:	Rory Huang

1) Duty Cycle

Test Result

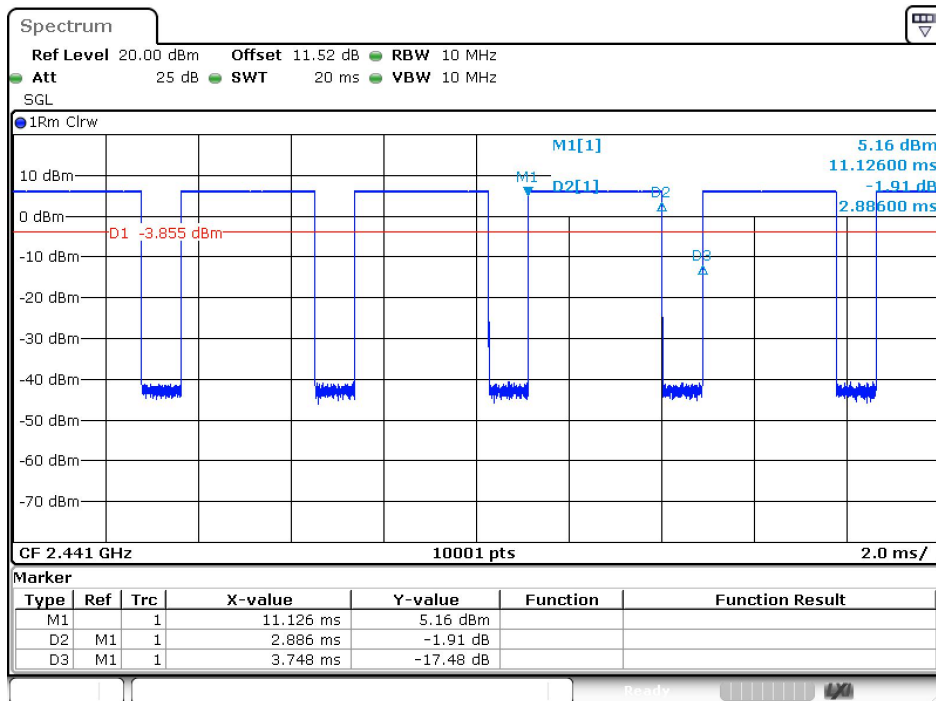
Modulation	Packets	Channel	On Time (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle (linear)	Duty Cycle Factor (dB)	1/T
GFSK	DH5	0	2.886	3.748	77.00	0.7700	1.1351	0.3465
		39	2.886	3.748	77.00	0.7700	1.1351	0.3465
		78	2.886	3.746	77.04	0.7704	1.1328	0.3465

Test Graphs



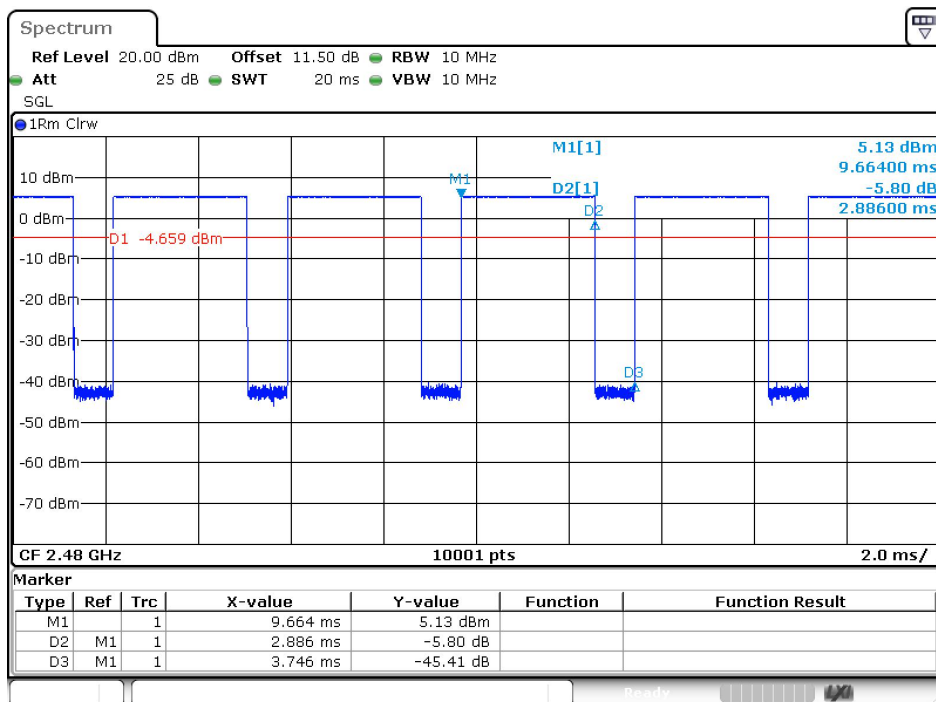
Date: 6.NOV.2024 13:41:01

GFSK(DH5)_Channel 0



Date: 6.NOV.2024 13:46:59

GFSK(DH5)_Channel 39



Date: 6.NOV.2024 13:49:10

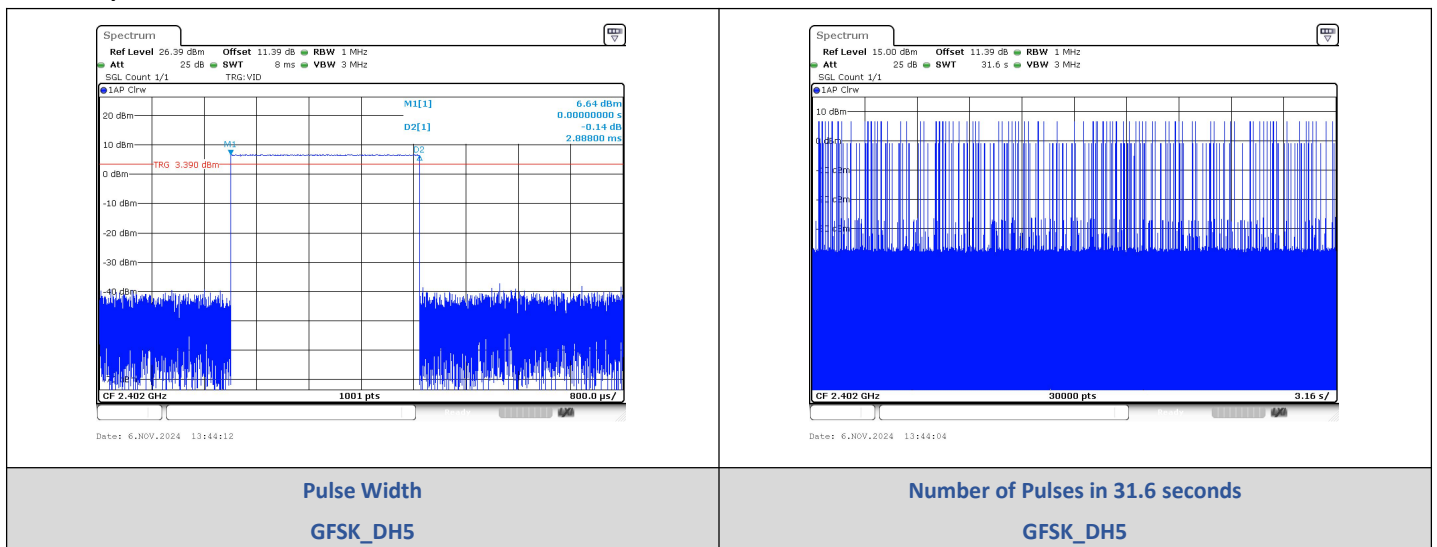
GFSK(DH5)_Channel 78

2) 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	CH0 (2402MHz)	2.888	101	291.69	< 400	PASS

Test Graphs

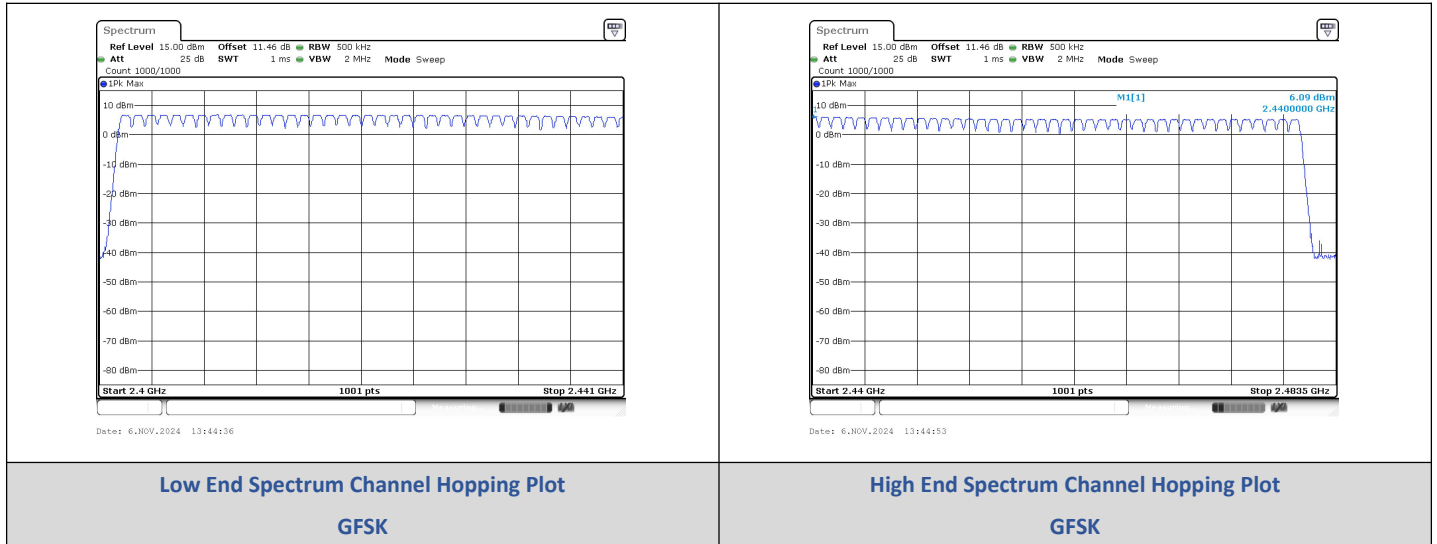


3) Number Of Hopping Channel

Test Result

Modulation	Packet	Number of Hopping Channel	Limit	Result
GFSK	DH5	79	15	PASS

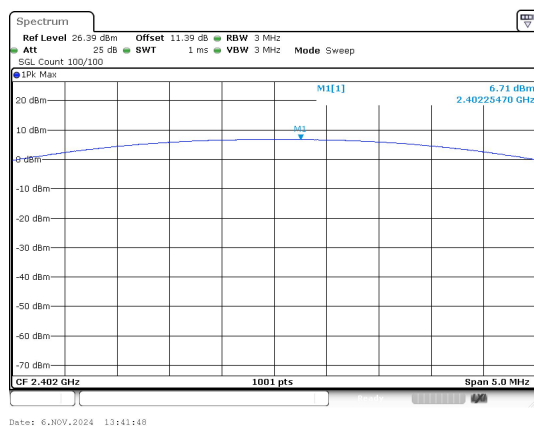
Test Graphs



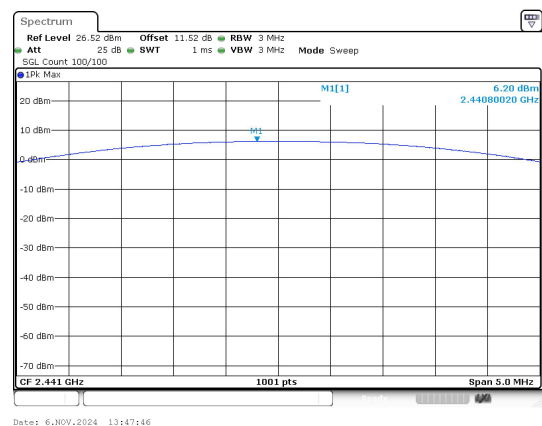
4) Conducted Peak Output Power

Modulation	Packet Type	Channel	Peak Output Power (dBm)	Peak Output Power (mW)	Limit (dBm)	Result
GFSK	DH5	0	6.71	4.69	≤30	PASS
		39	6.20	4.17		PASS
		78	5.39	3.46		PASS

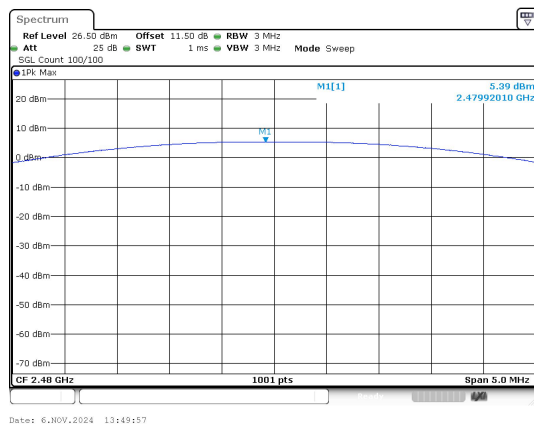
Test Graphs



Peak Output Power
GFSK_Channel 0



Peak Output Power
GFSK_Channel 39



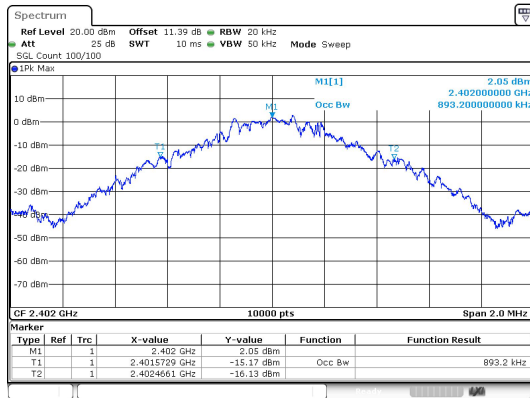
Peak Output Power
GFSK_Channel 78

5) 99% Bandwidth

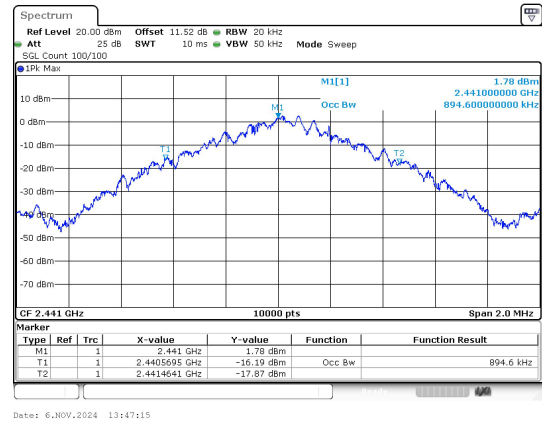
Test Result

Modulation	Channel	Center Frequency (MHz)	99% BW (MHz)
GFSK	0	2402	0.89320
	39	2441	0.89460
	78	2480	0.88480

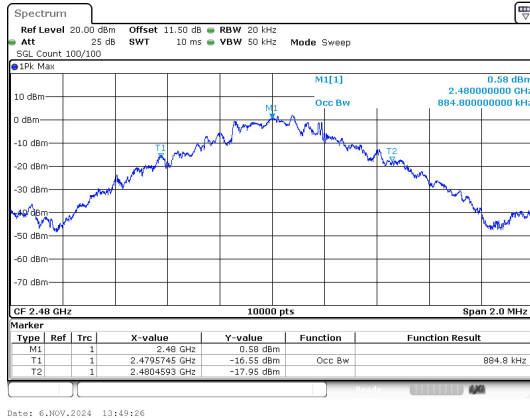
Test Graphs



GFSK_DH5_Channel 0



GFSK_DH5_Channel 39



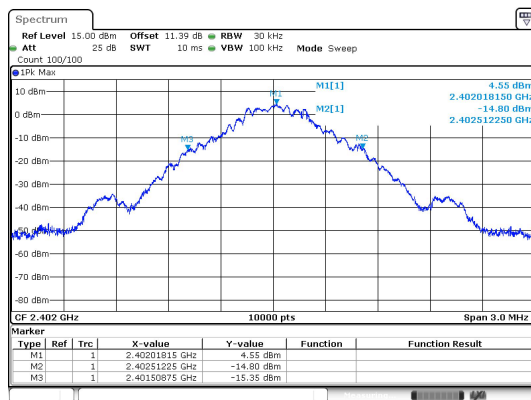
GFSK_DH5_Channel 78

6) 20dB Bandwidth

Test Result

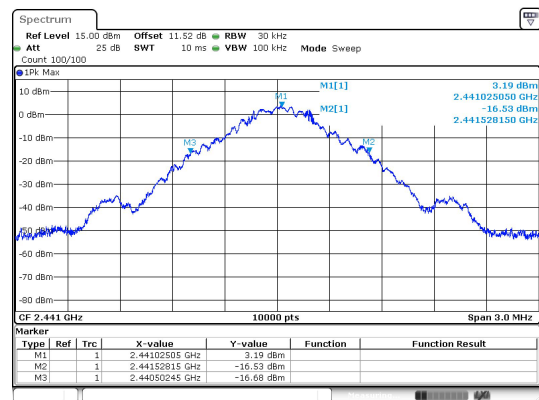
Modulation	Channel	Center Frequency (MHz)	20 dB Bandwidth (MHz)
GFSK	0	2402 MHz	1.000
	39	2441 MHz	1.030
	78	2480 MHz	1.000

Test Graphs



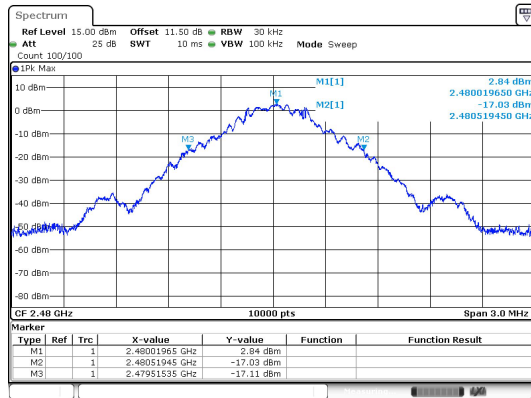
Date: 6.NOV.2024 13:41:35

GFSK_DH5_Channel 0



Date: 6.NOV.2024 13:47:33

GFSK_DH5_Channel 39



Date: 6.NOV.2024 13:49:44

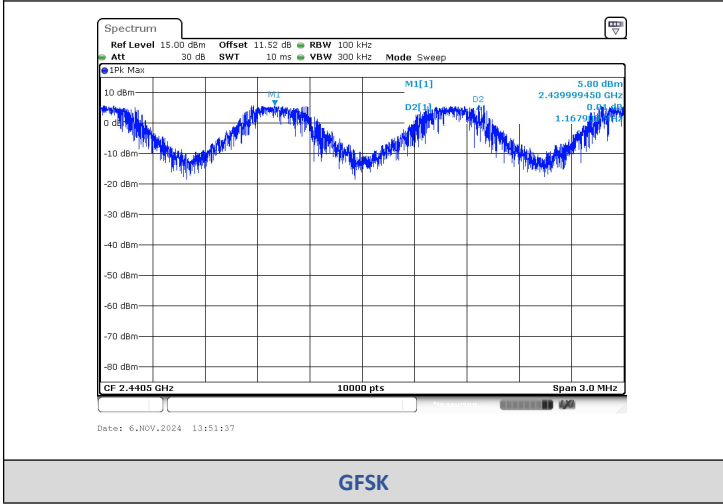
GFSK_DH5_Channel 78

7) Carrier Frequencies Separation

Test Result

Modulation	Packet	Left Center frequency (MHz)	Right Center frequency (MHz)	Hopping Frequency Separation (MHz)	Limit (MHz)	Result
GFSK	DH5	2439.9994	2441.1674	1.1679	1.030	PASS

Test Graphs



8) Conducted Out Of Band Emission

Test Result

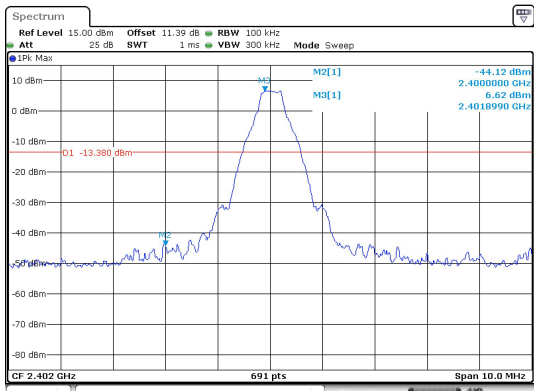
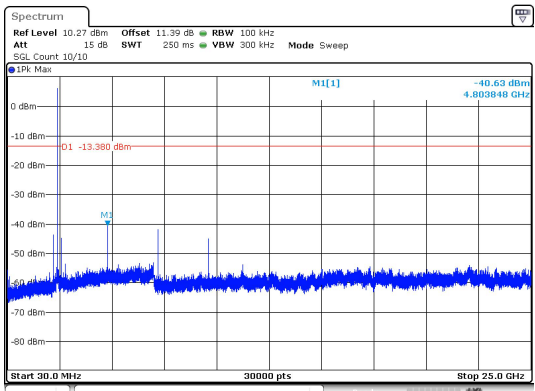
Non-Hopping

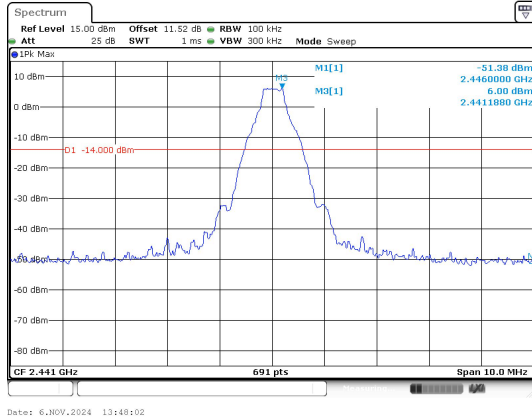
Modulation	Packet	Channel	OOB Emission Frequency (MHz)	OOB Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result
GFSK	DH5	0	2400.00	-44.120	-13.38	-30.740	PASS
			4803.85	-40.631	-13.38	-27.251	PASS
		39	7323.32	-39.803	-14.0	-25.803	PASS
		78	2483.50	-50.060	-14.73	-35.330	PASS
			9920.20	-39.901	-14.73	-25.171	PASS

Hopping

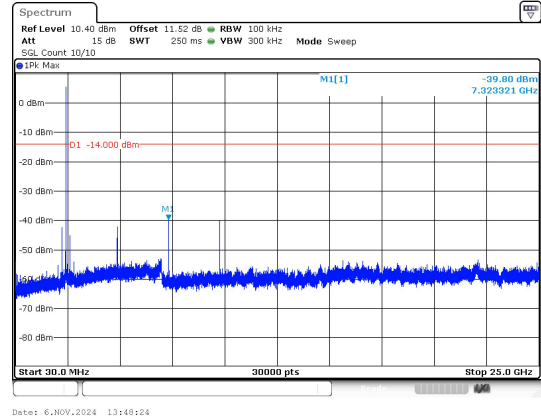
Modulation	Packet	Channel	OOB Emission Frequency (MHz)	OOB Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result
GFSK	DH5	Hopping	2395.40	-47.383	-13.53	-33.853	PASS
			2400.00	-49.770	-13.53	-36.240	PASS
			2483.50	-48.440	-15.05	-33.390	PASS

Test Graphs

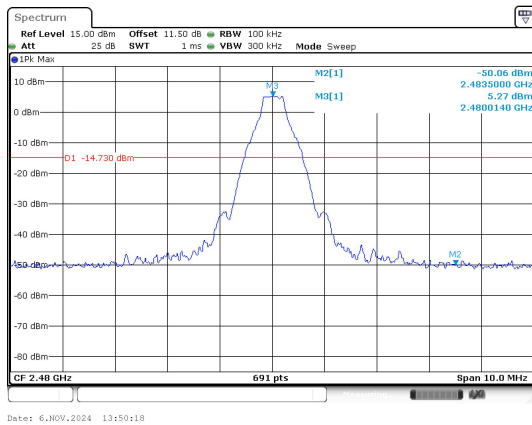
 Out Of Band Emission GFSK_DH5_Channel 0	 30.0 MHz - 25000.0 MHz GFSK_DH5_Channel 0
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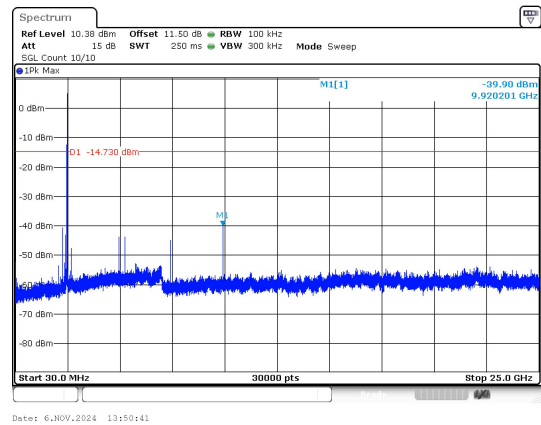
**Out Of Band Emission
GFSK_DH5_Channel 39**



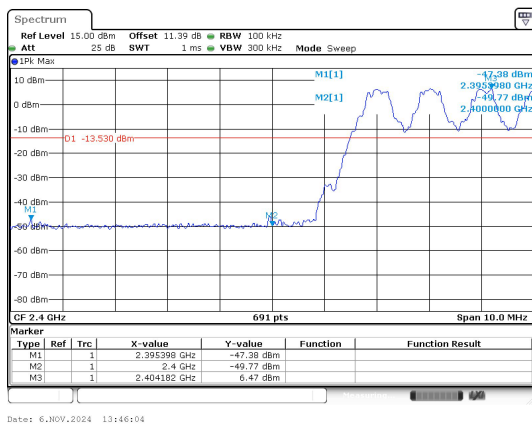
**30.0 MHz - 25000.0 MHz
GFSK_DH5_Channel 39**



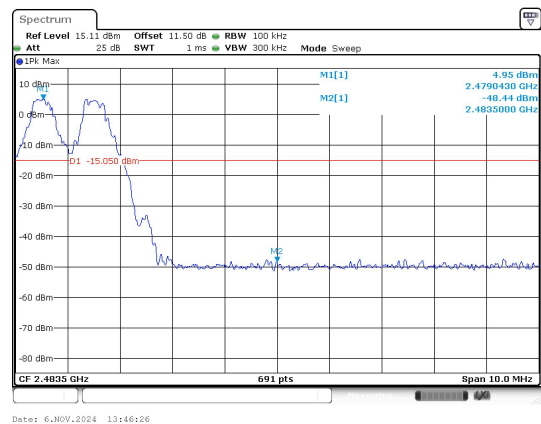
**Out Of Band Emission
GFSK_DH5_Channel 78**



**30.0 MHz - 25000.0 MHz
GFSK_DH5_Channel 78**



**Out Of Band Emission (Left)
GFSK_DH5_Channel Hopping**



**Out Of Band Emission (Right)
GFSK_DH5_Channel Hopping**

-----The End-----