

Appendix Report

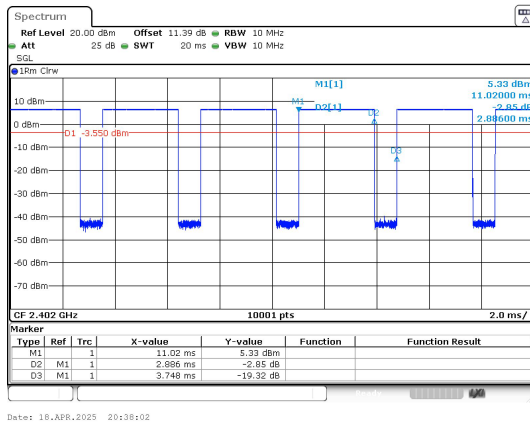
Project No.:	CISR250417181
Test Engineer:	James Wang
Supervised by:	Rory Huang

1) Duty Cycle

Test Result

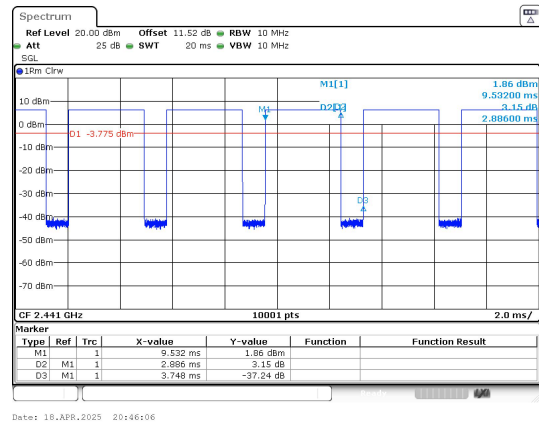
Modulation	Packets	Channel	On Time (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle (linear)	Duty Cycle Factor (dB)	1/T
GFSK	DH5	0	2.886	3.748	77.00	0.7700	1.1351	0.3465
		39	2.886	3.748	77.00	0.7700	1.1351	0.3465
		78	2.886	3.748	77.00	0.7700	1.1351	0.3465

Test Graphs



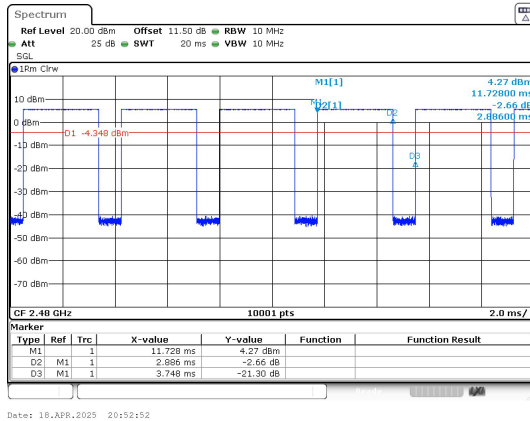
Date: 18.APR.2025 20:38:02

GFSK(DH5)_Channel 0



Date: 18.APR.2025 20:46:06

GFSK(DH5)_Channel 39



Date: 18.APR.2025 20:52:52

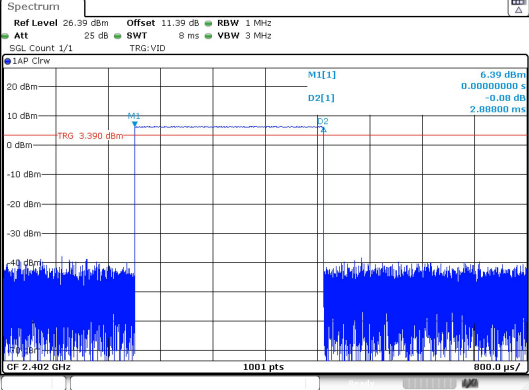
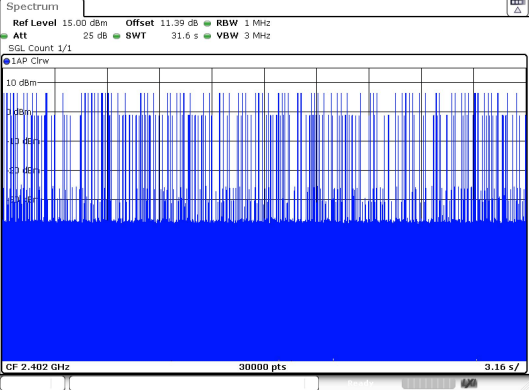
GFSK(DH5)_Channel 78

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	100	288.8	< 400	PASS

Test Graphs

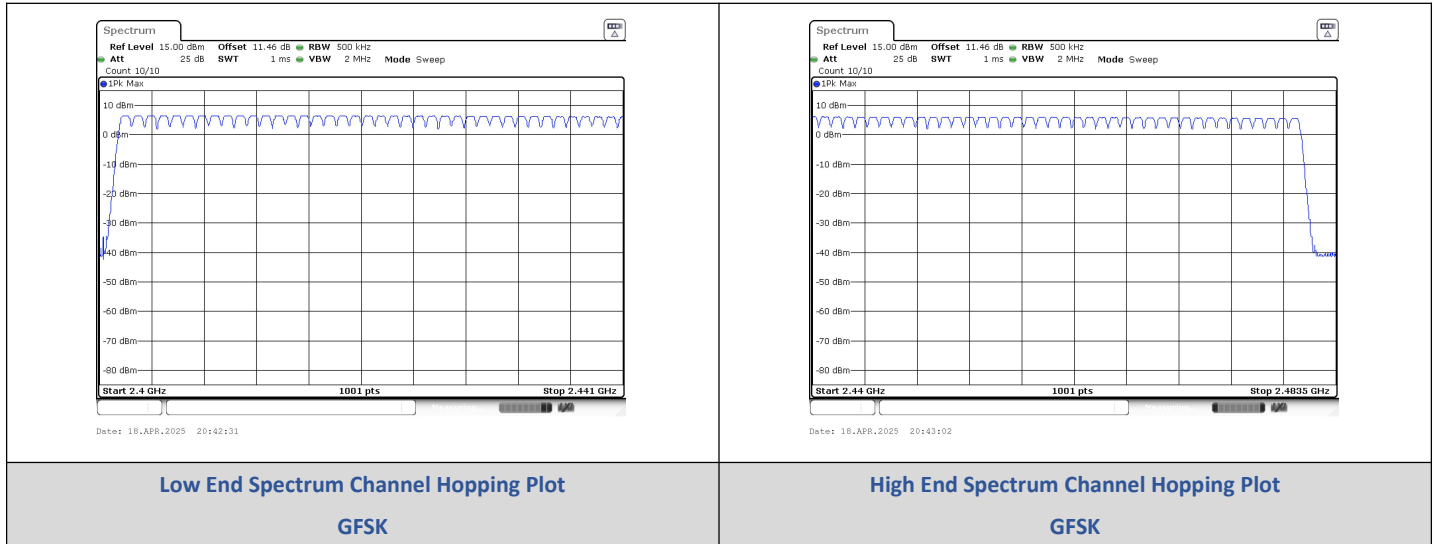
 Date: 18.APR.2025 20:42:03	 Date: 18.APR.2025 20:41:55
Pulse Width GFSK_DH5	Number of Pulses in 31.6 seconds GFSK_DH5

3) Number Of Hopping Channel

Test Result

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

Test Graphs

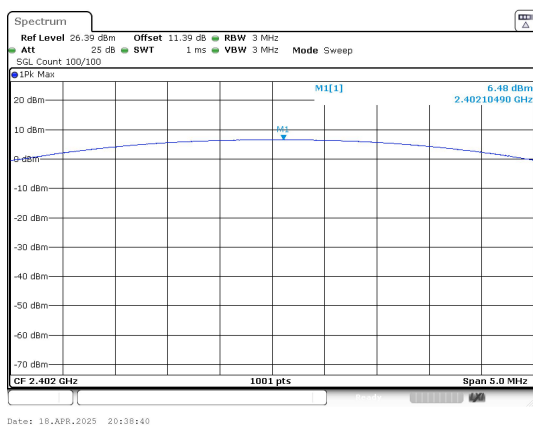


4) Conducted Output Power

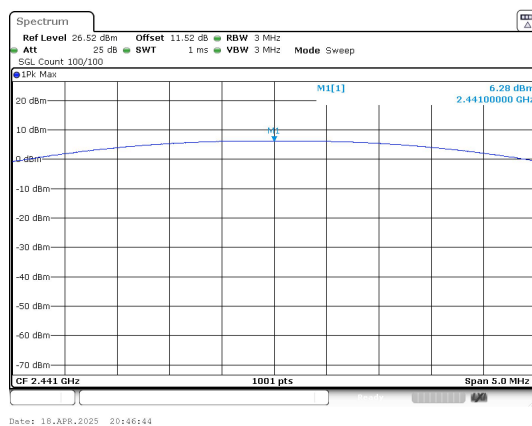
Test Result

Modulation	Packet Type	Channel	Peak Output Power (dBm)	Peak Output Power (mW)	Limit (dBm)	Result
GFSK	DH5	0	6.48	4.45	≤30	PASS
		39	6.28	4.25		PASS
		78	5.69	3.71		PASS

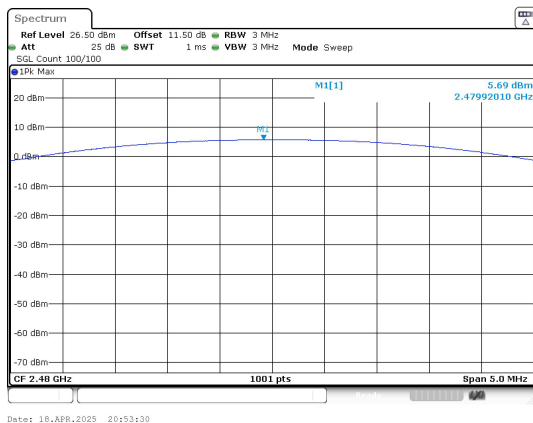
Test Graphs



Peak Output Power
GFSK_Channel 0



Peak Output Power
GFSK_Channel 39



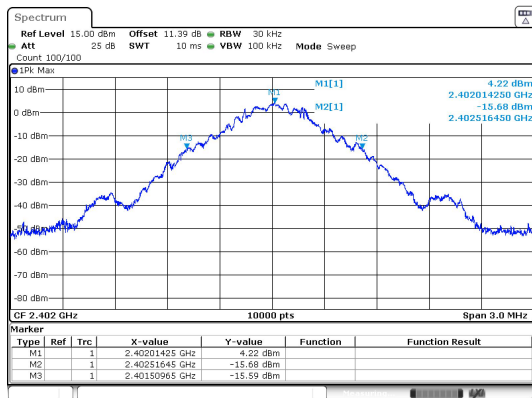
Peak Output Power
GFSK_Channel 78

5) 20dB Bandwidth

Test Result

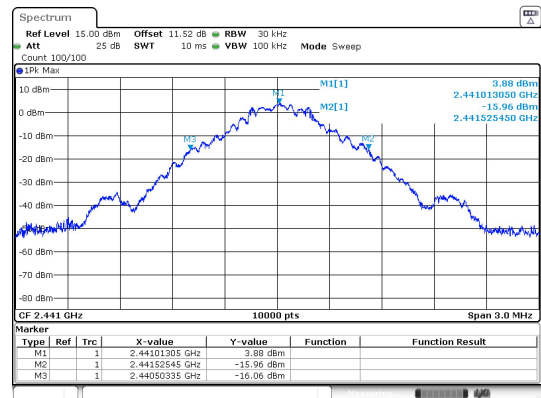
Modulation	Channel	Center Frequency (MHz)	20 dB Bandwidth (MHz)
GFSK	0	2402 MHz	1.75
	39	2441 MHz	1.75
	78	2480 MHz	1.75

Test Graphs



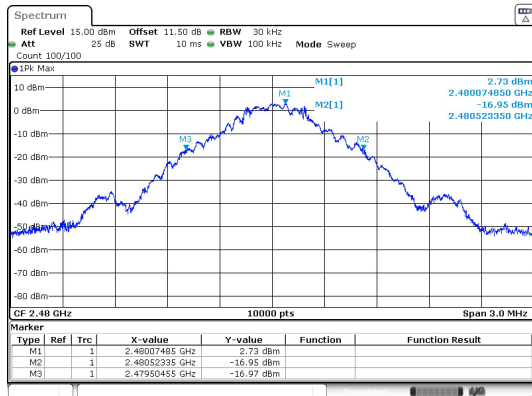
Date: 18.APR.2025 20:38:24

GFSK_DH5_Channel 0



Date: 18.APR.2025 20:46:27

GFSK_DH5_Channel 39



Date: 18.APR.2025 20:53:13

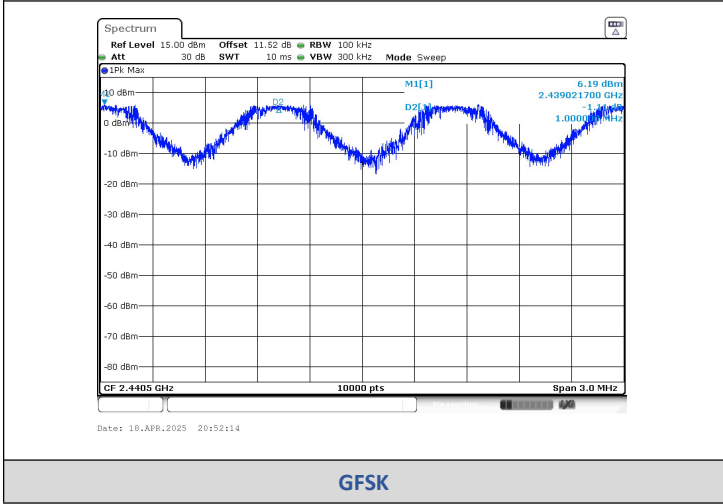
GFSK_DH5_Channel 78

6) Carrier Frequencies Separation

Test Result

Modulation	Packet	Left Center frequency (MHz)	Right Center frequency (MHz)	Hopping Frequency Separation (MHz)	Limit (MHz)	Result
GFSK	DH5	2440.1618	2441.1656	1	1.75	PASS

Test Graphs



7) Conducted Out Of Band Emission

Test Result

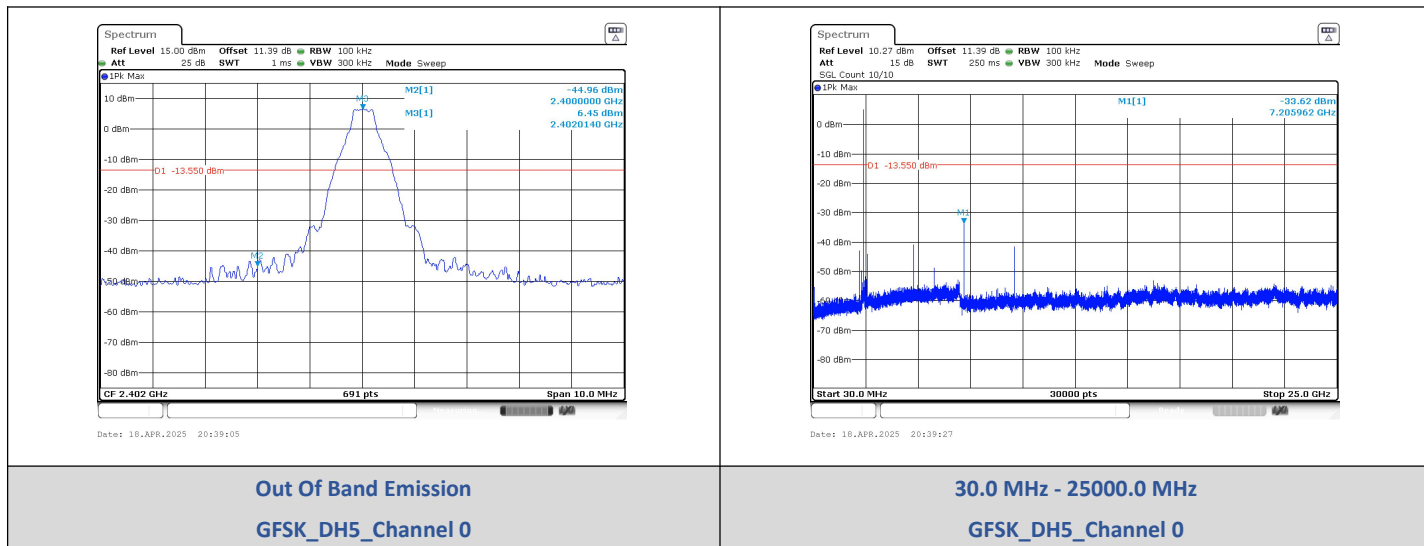
Non-Hopping

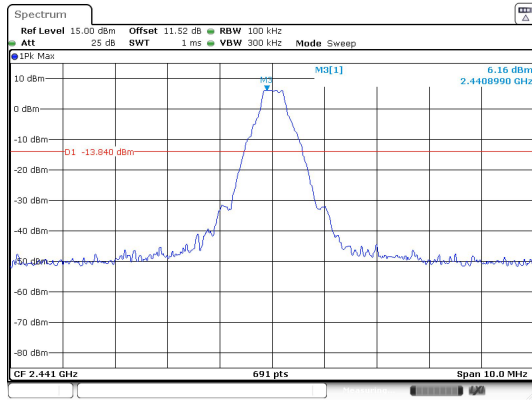
Modulation	Packet	Channel	OOB Emission Frequency (MHz)	OOB Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result
GFSK	DH5	0	2400.00	-44.960	-13.55	-31.410	PASS
			7205.96	-33.623	-13.55	-20.073	PASS
		39	9763.72	-40.747	-13.84	-26.907	PASS
		78	2483.50	-50.840	-14.41	-36.430	PASS
			9920.20	-37.310	-14.41	-22.900	PASS

Hopping

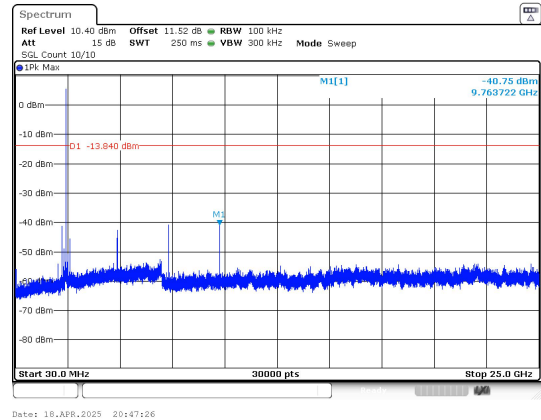
Modulation	Packet	Channel	OOB Emission Frequency (MHz)	OOB Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result
GFSK	DH5	Hopping	2398.73	-47.647	-13.67	-33.977	PASS
			2400.00	-48.070	-13.67	-34.400	PASS
			2483.50	-49.060	-14.47	-34.590	PASS

Test Graphs

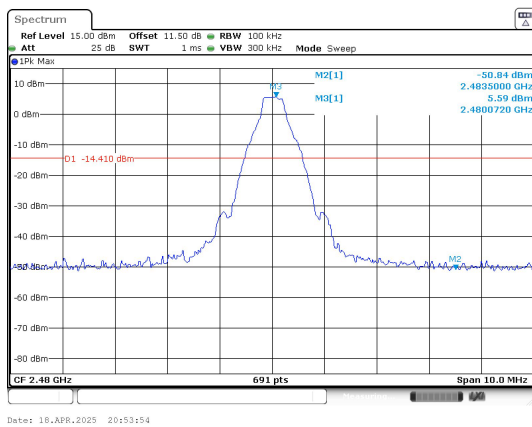




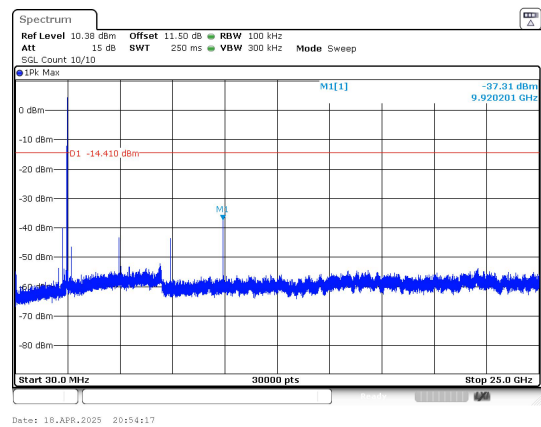
Out Of Band Emission
GFSK_DH5_Channel 39



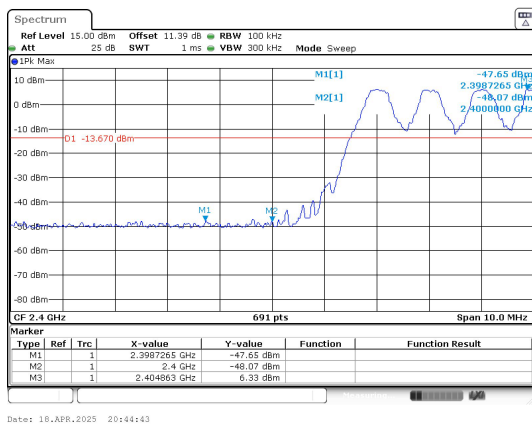
30.0 MHz - 25000.0 MHz
GFSK_DH5_Channel 39



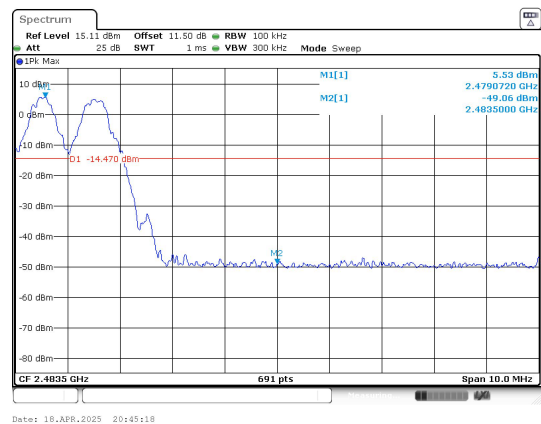
Out Of Band Emission
GFSK_DH5_Channel 78



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

-----End of the report-----