

Appendix A

RF Test Data for BT(BDR/EDR) (Conducted Measurement)

Product Name: Folding Bluetooth keyboard with touchpad

Trade Mark: N/A

Test Model: B033

Environmental Conditions

Temperature:	25.1 °C
Relative Humidity:	52.6%
ATM Pressure:	101Kpa
Test Engineer:	Emiya lin
Supervised by:	Simba Haung

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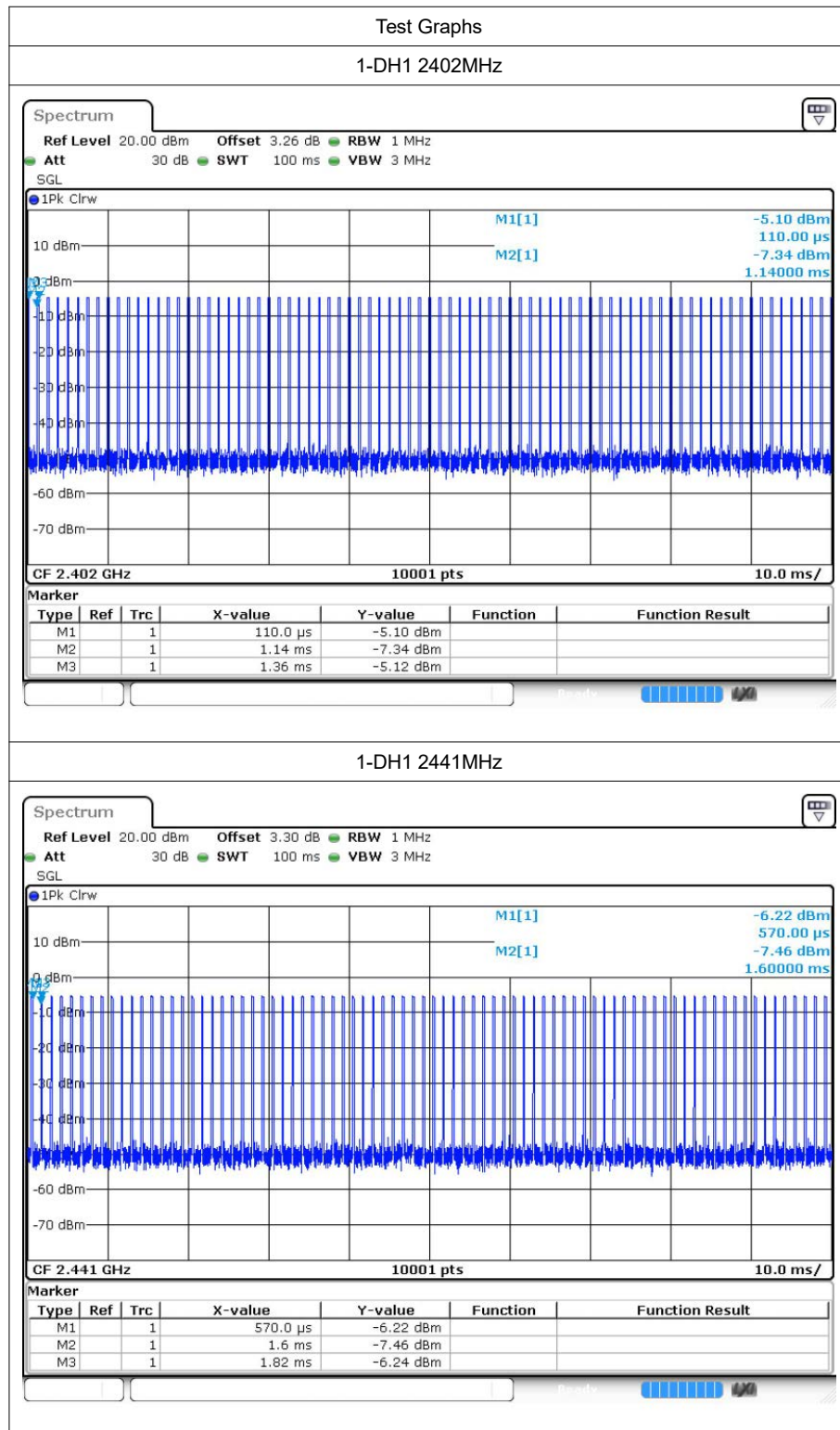
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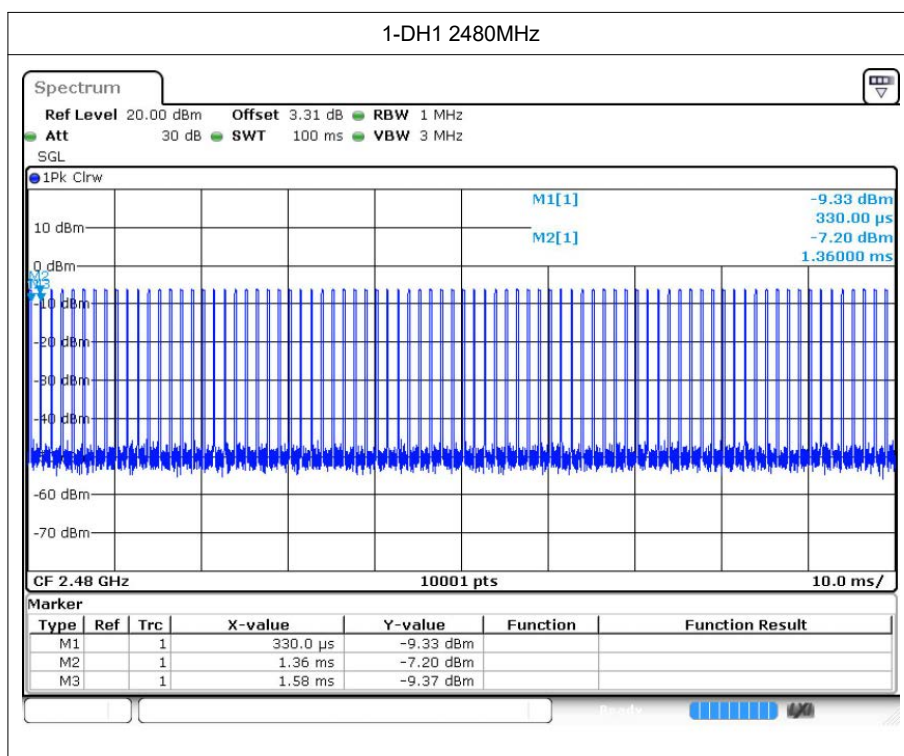
1 Duty Cycle

1.1 Test Result

Mode	Frequency (MHz)	Duty Cycle (%)	Correction Factor	1/T (kHz)
1-DH1	2402	18.41	7.35	4.55
1-DH1	2441	18.4	7.35	4.55
1-DH1	2480	18.4	7.35	4.55

1.2 Test Graphs



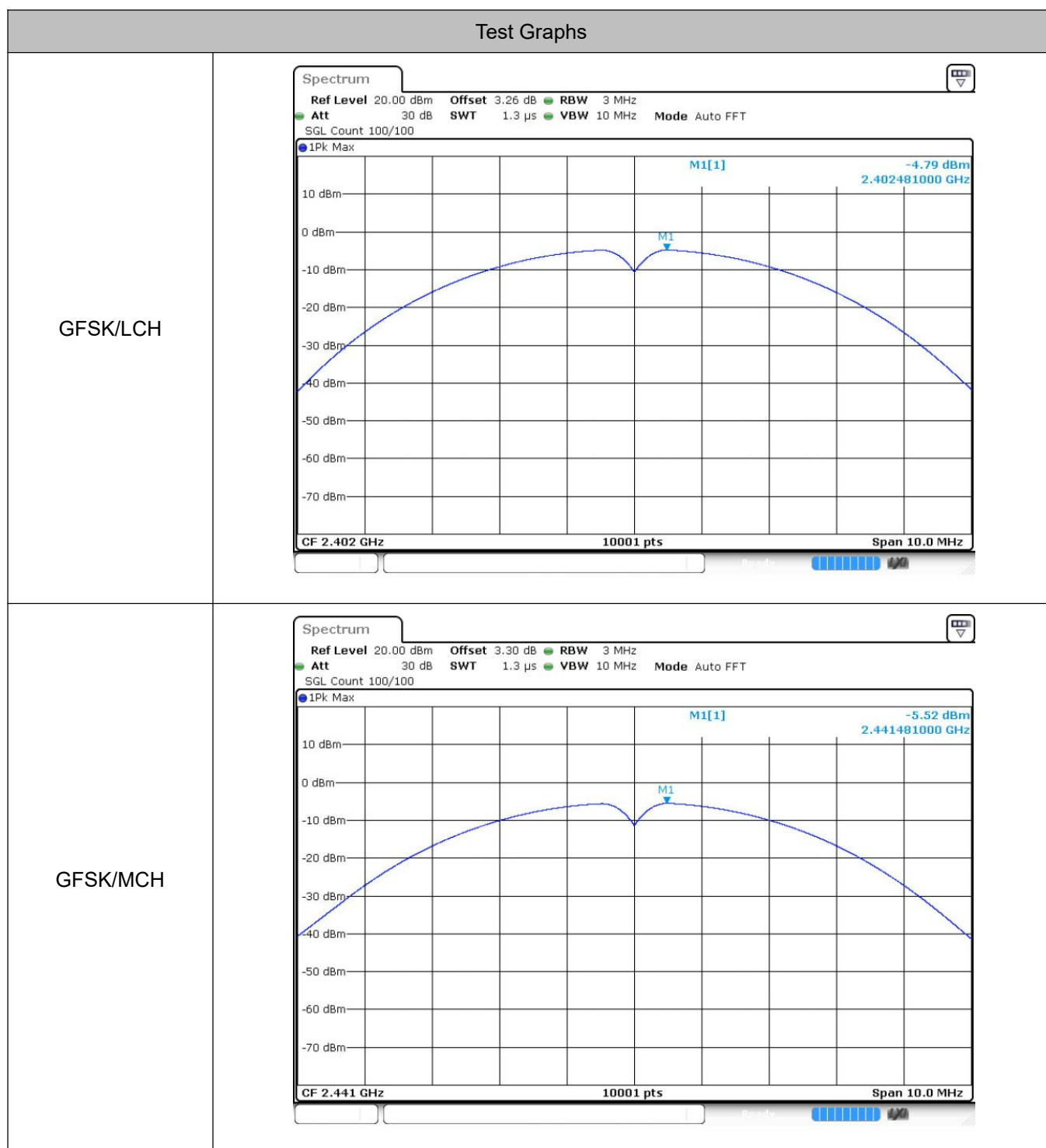


2 Maximum Conducted Peak Output Power

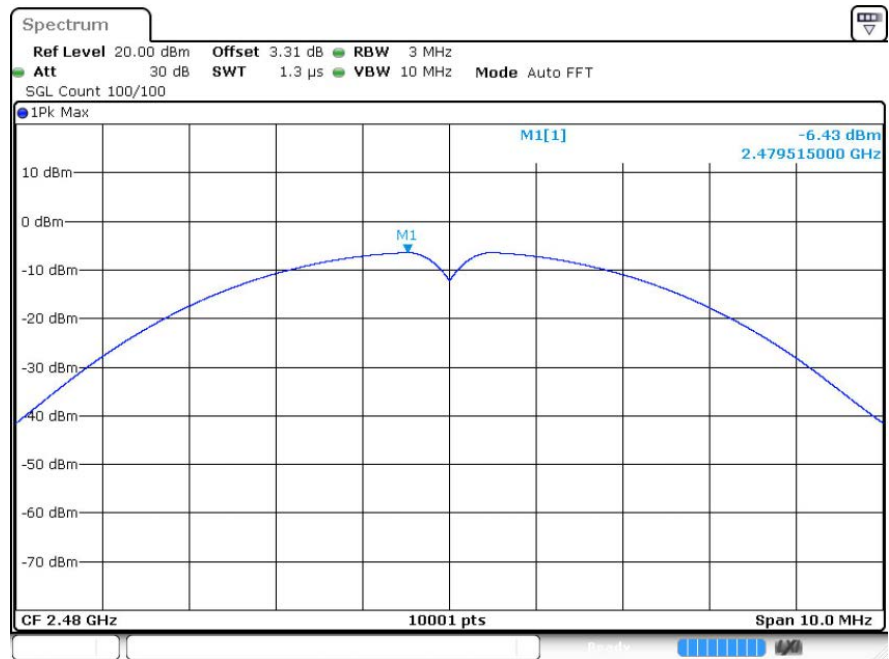
2.1 Test Result

Mode	Channel.	Maximum Peak Output Power [dBm]	Limit [dBm]	Verdict
GFSK	LCH	-4.79	21	Pass
	MCH	-5.52	21	Pass
	HCH	-6.43	21	Pass

2.2 Test Graphs



GFSK/HCH

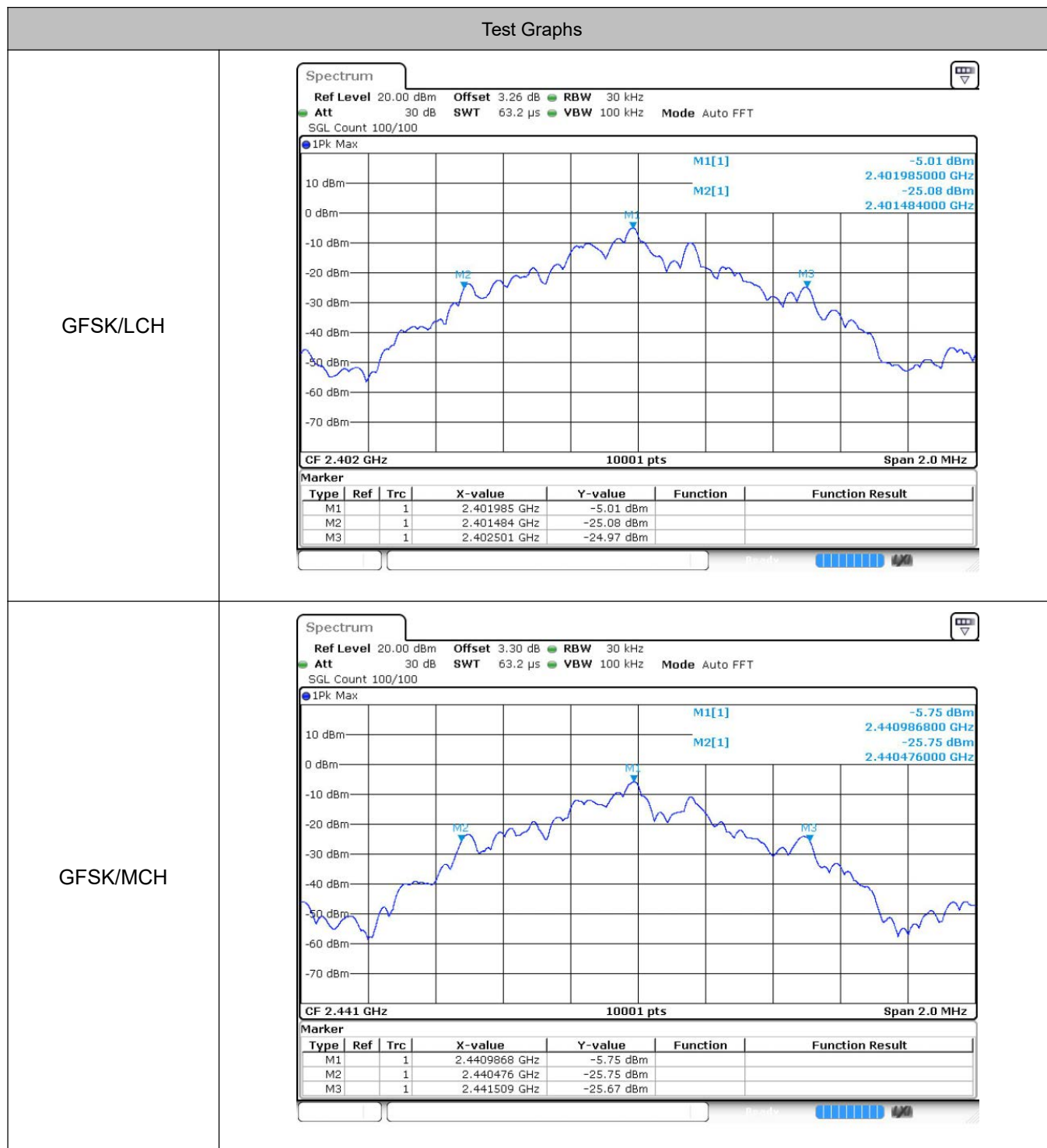


3 20dB Bandwidth

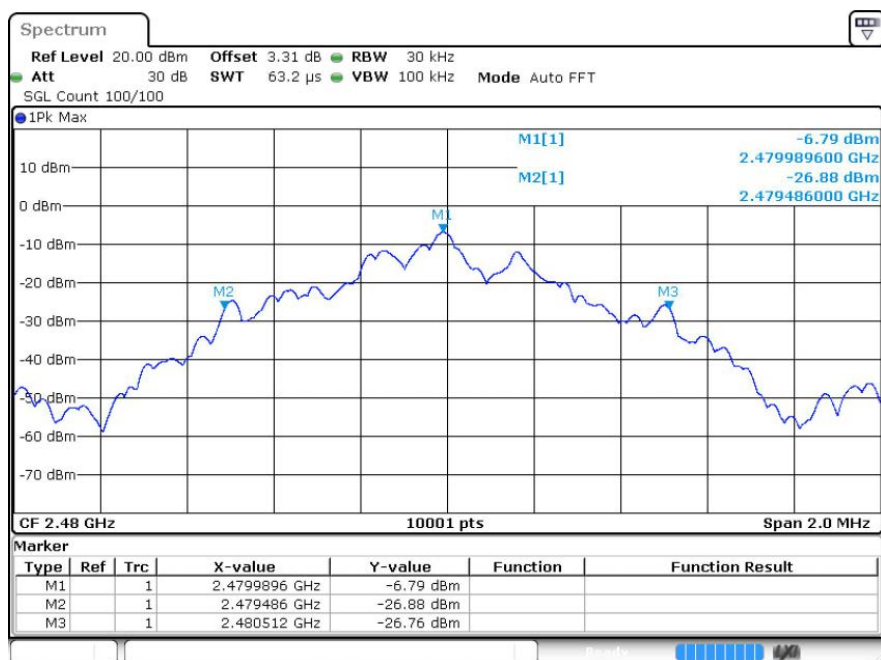
3.1 Test Result

Mode	Channel.	20dB Bandwidth [MHz]	Limit [MHz]	Verdict
GFSK	LCH	1.017	Not Specified	Pass
	MCH	1.033	Not Specified	Pass
	HCH	1.026	Not Specified	Pass

3.2 Test Graphs



GFSK/HCH

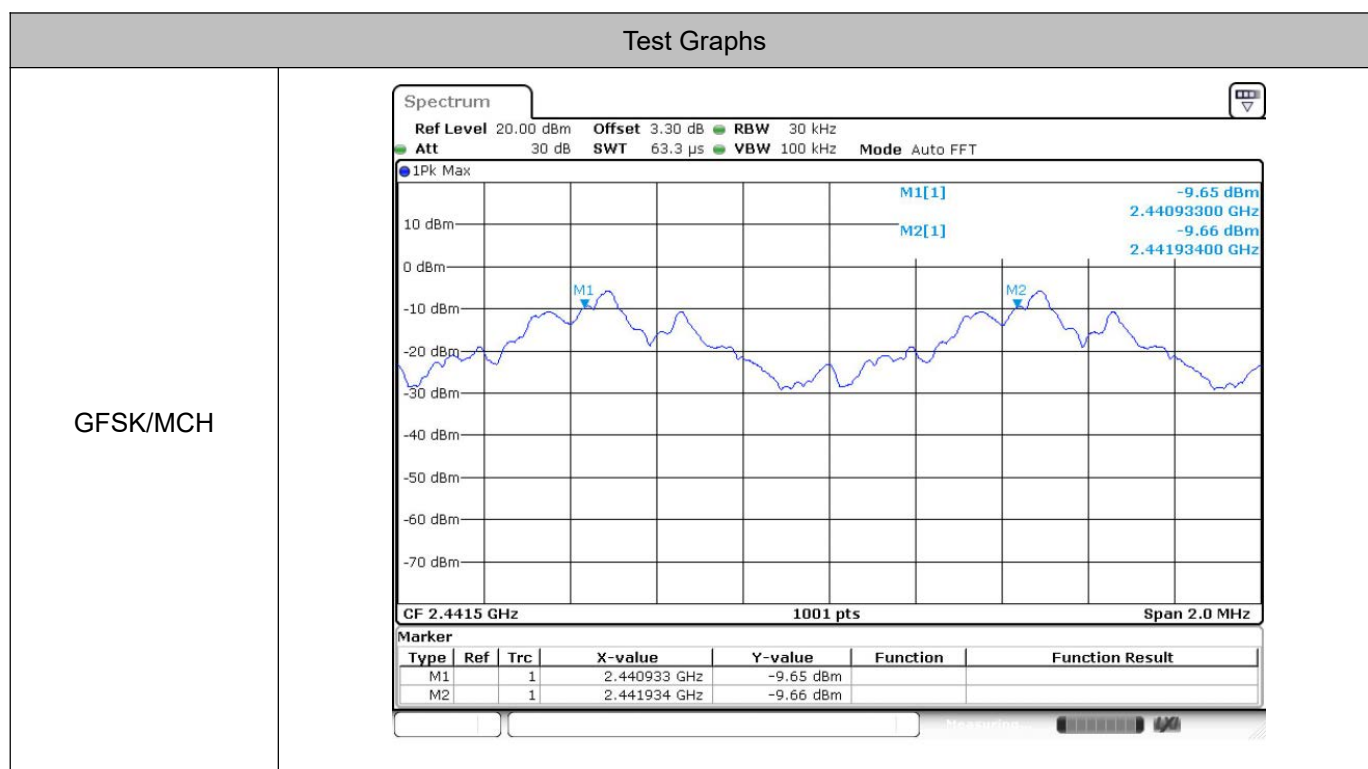


4 Carrier Frequency Separation

4.1 Test Result

Mode	Channel.	Carrier Frequency Separation [MHz]	Limit [MHz]	Verdict
GFSK	MCH	1.001	0.689	Pass

4.2 Test Graphs

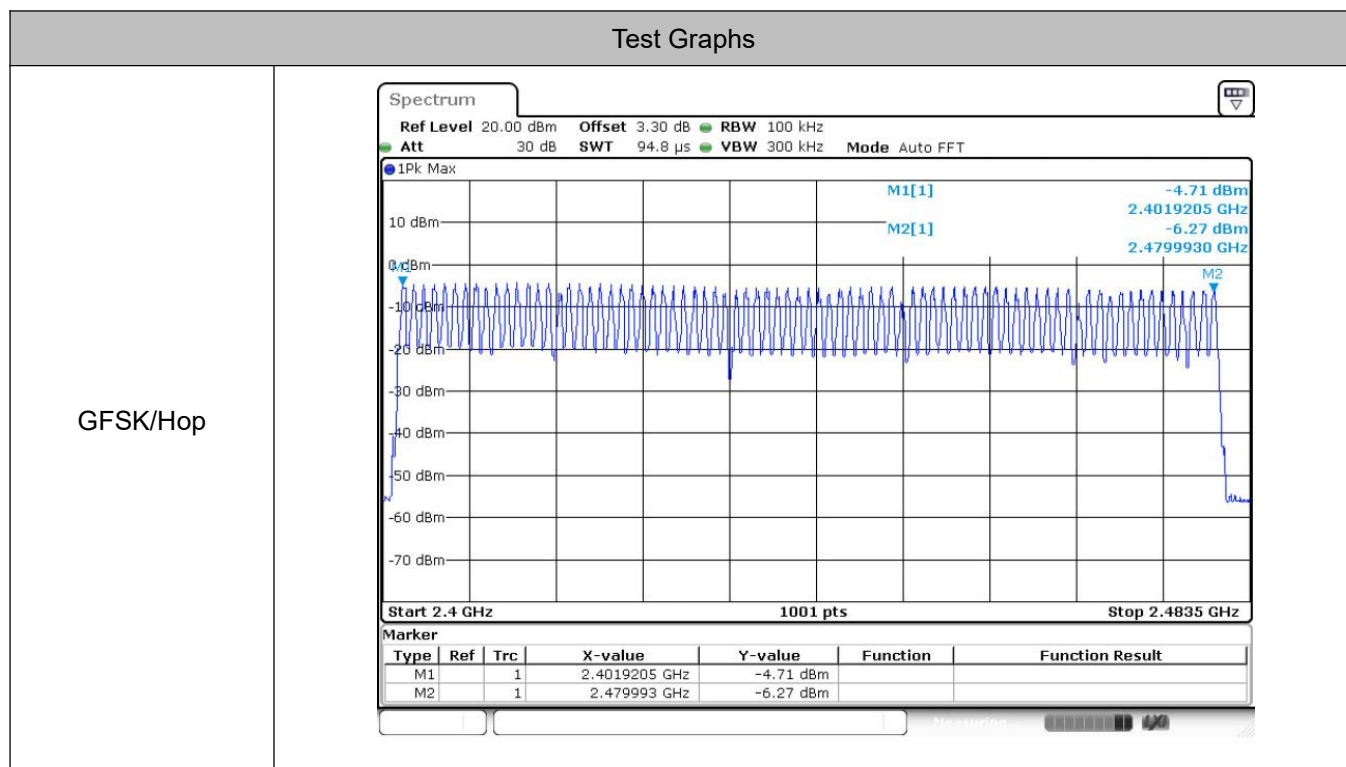


5 Hopping Channel Number

5.1 Test Result

Mode	Channel.	Number of Hopping Channel [N]	Limit [N]	Verdict
GFSK	Hop	79	≥ 15	PASS

5.2 Test Graphs



6 Dwell Time

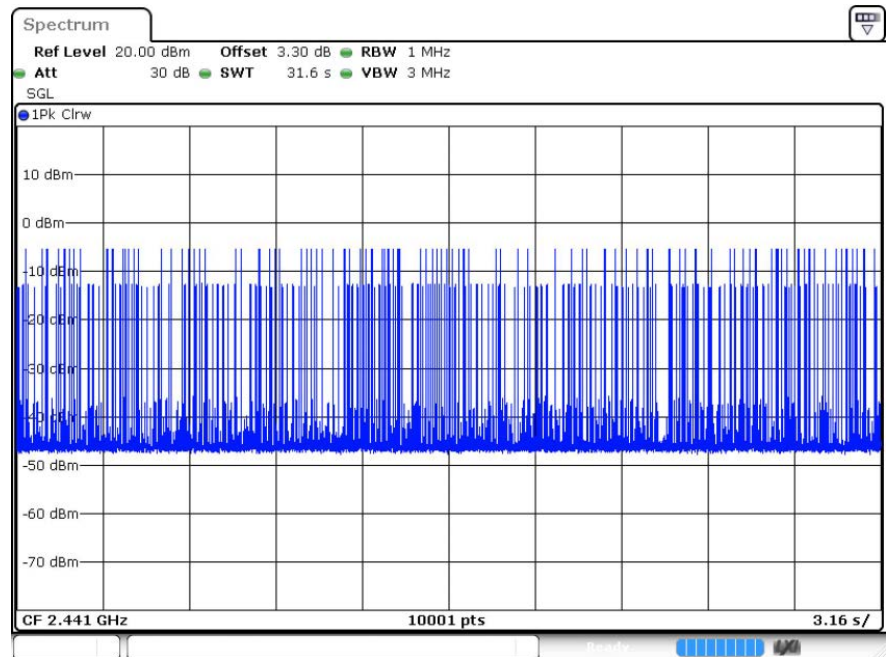
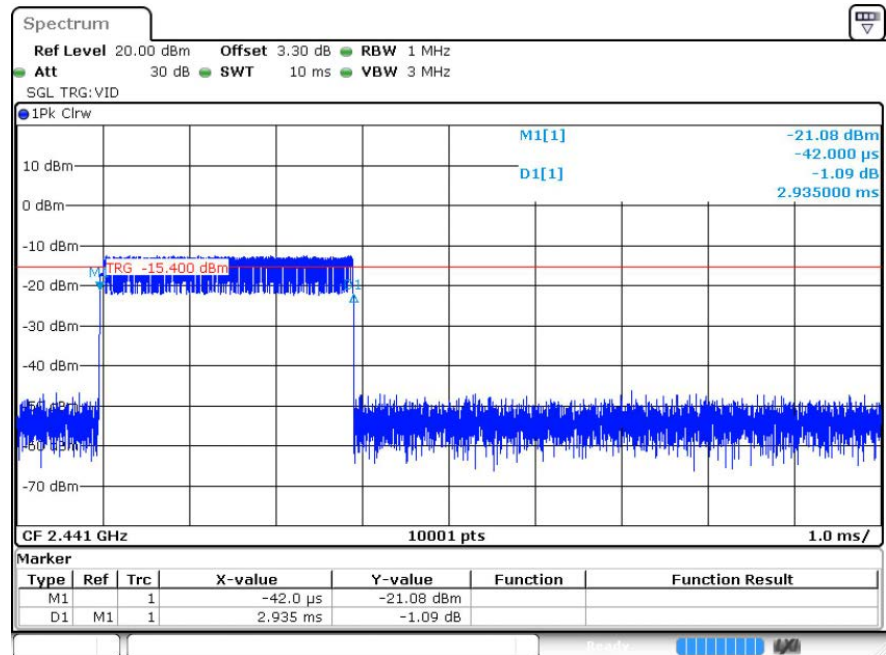
6.1 Test Result

Mode	Packet	Channel	Burst Width [ms/hop/ch]	Total Hops[hop*ch]	Dwell Time[ms]	Limit [s]	Verdict
GFSK	DH5	MCH	2.935	110	322.85	0.4	Pass

6.2 Test Graphs

Test Graphs

GFSK_DH5/MCH



7 RF Conducted Spurious Emissions

7.1 Test Result

Mode	Channel	Max. Level [dBc]	Limit [dBc]	Verdict
GFSK	LCH	-36.24	-20	Pass
	MCH	-35.36	-20	Pass
	HCH	-34.47	-20	Pass

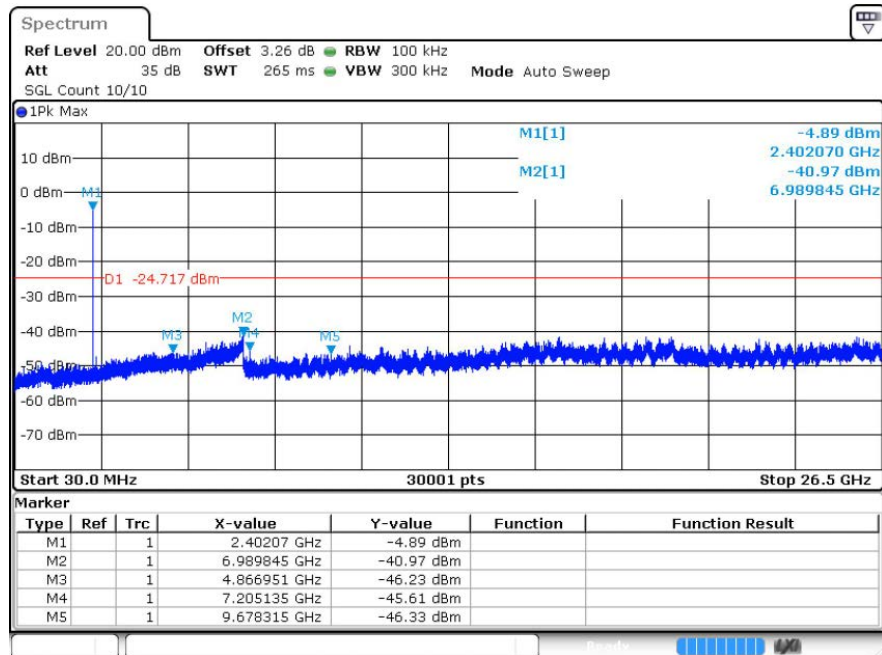
7.2 Test Graphs

GFSK_LCH_Graphs

Pref

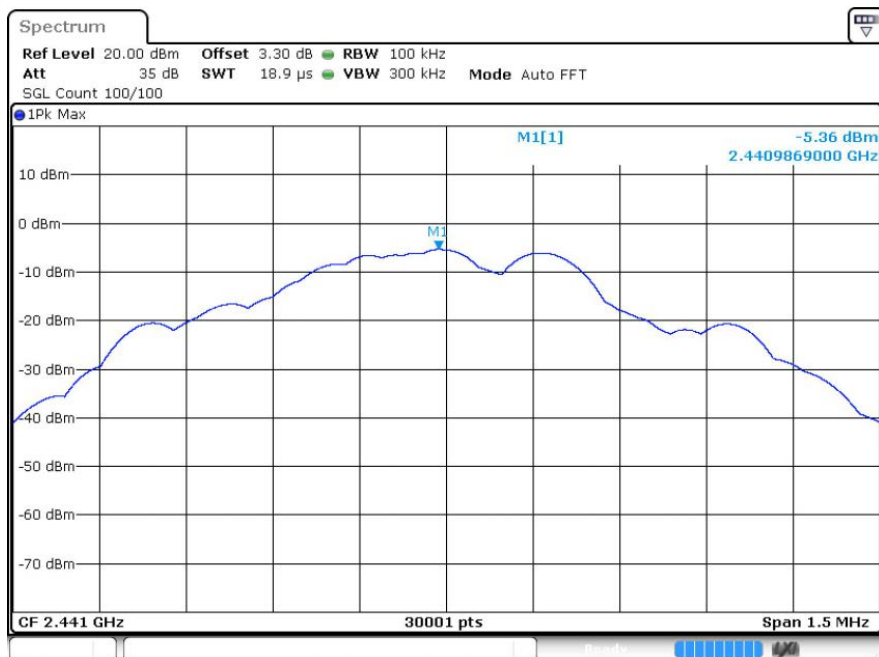


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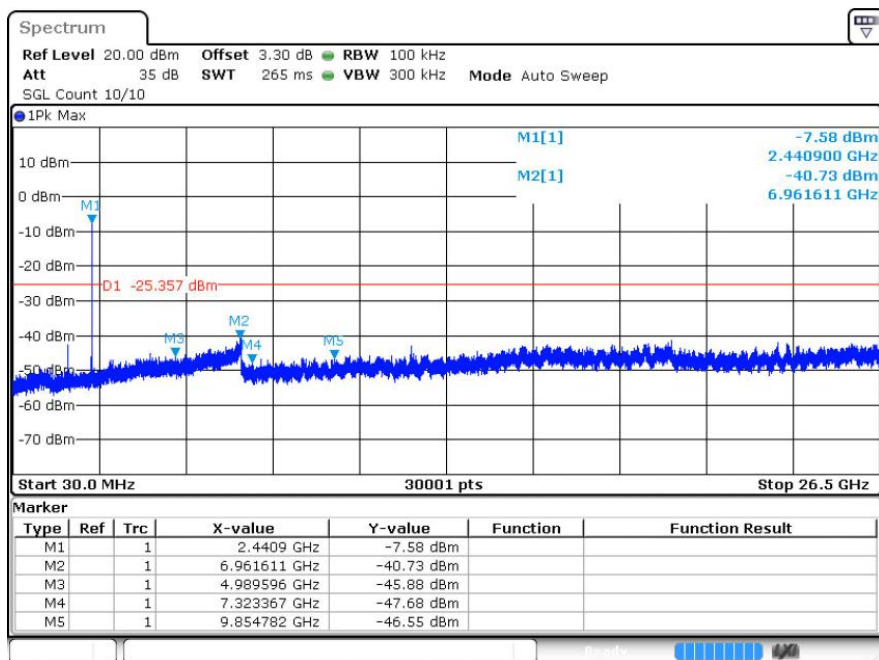


GFSK_MCH_Graphs

Pref



Puw

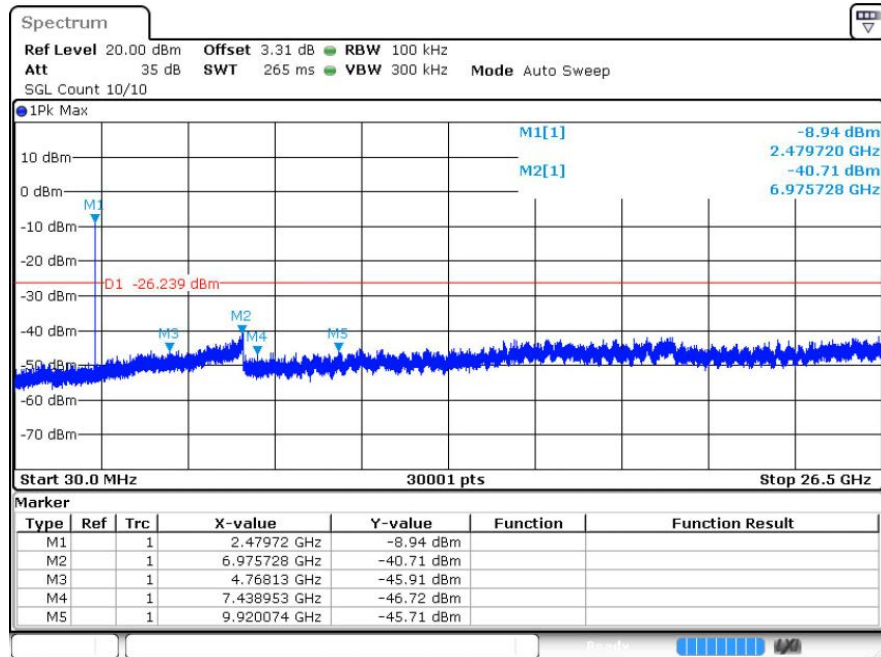


GFSK_HCH_Graphs

Pref



Puw

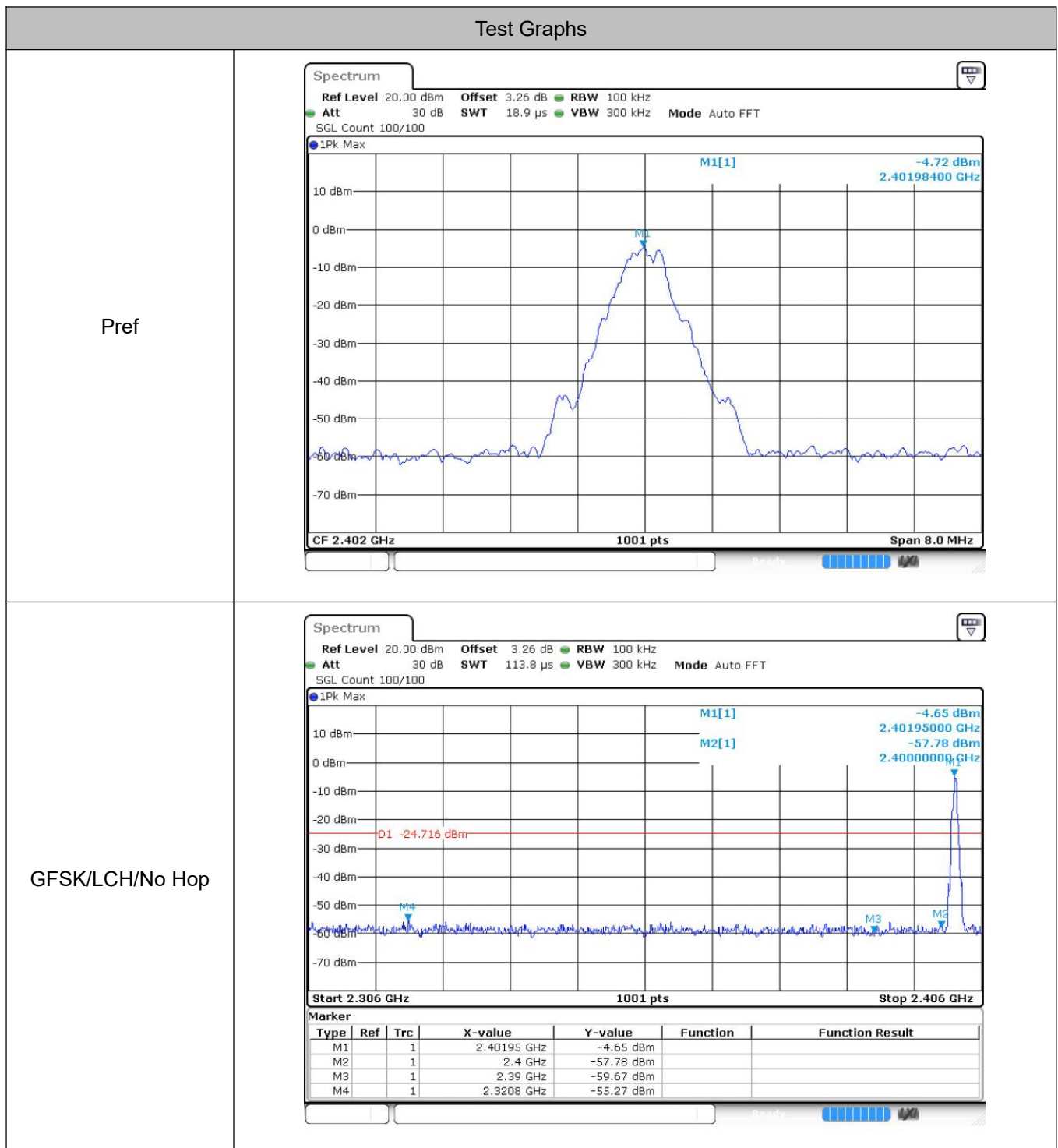


8 Band-edge for RF Conducted Emissions

8.1 Test Result

Mode	Channel	Carrier Frequency [MHz]	Frequency Hopping	Max Spurious Level [dBc]	Limit [dBc]	Verdict
GFSK	LCH	2402	Off	-50.54	-20	Pass
			On	-49.62	-20	Pass
	HCH	2480	Off	-47.85	-20	Pass
			On	-48.66	-20	Pass

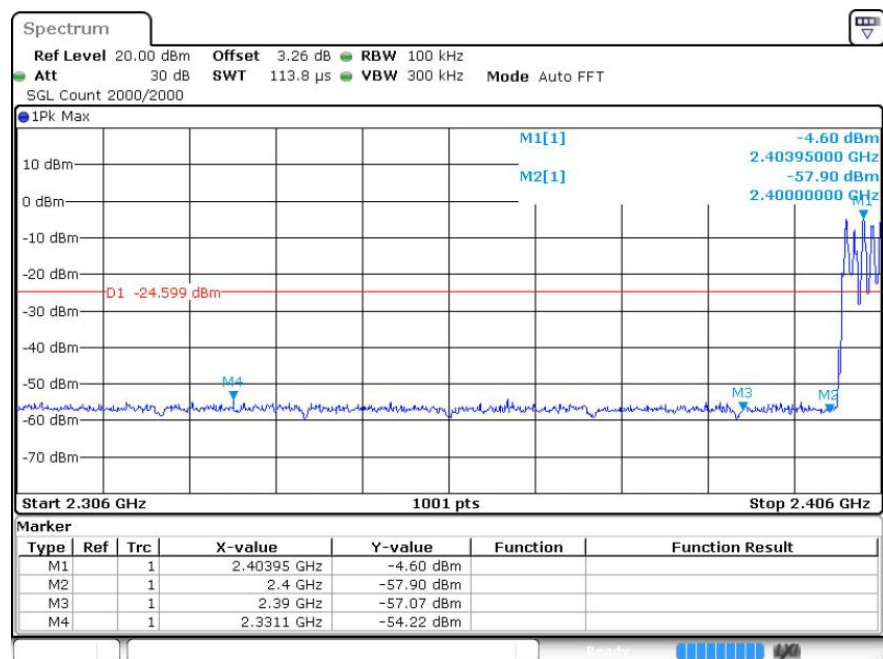
8.2 Test Graphs



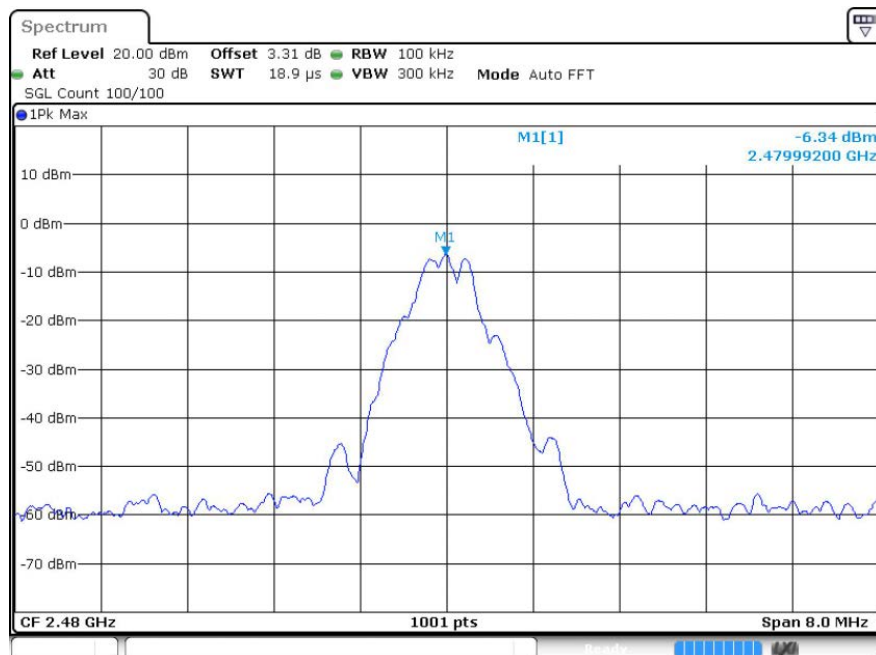
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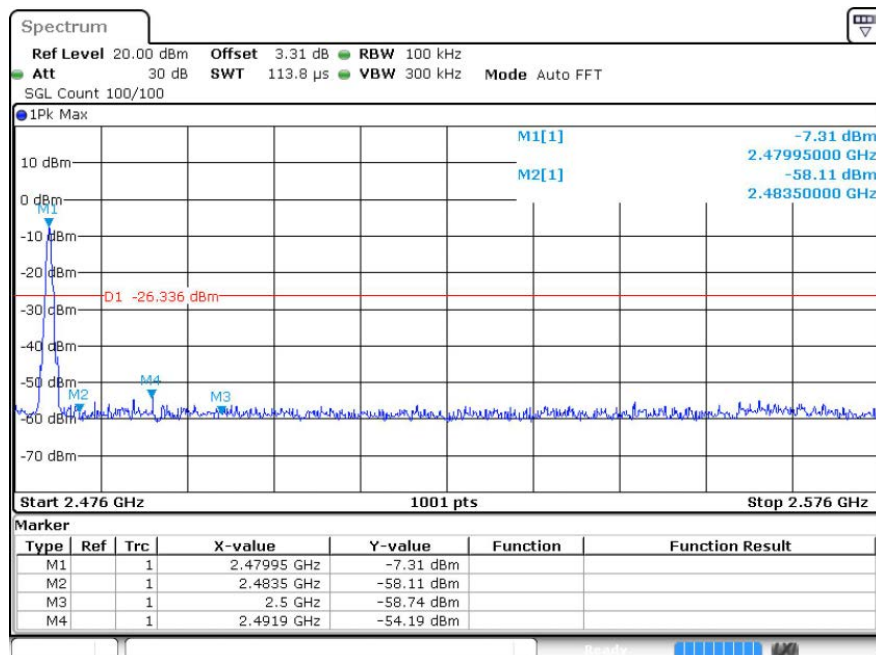
GFSK/LCH/Hop



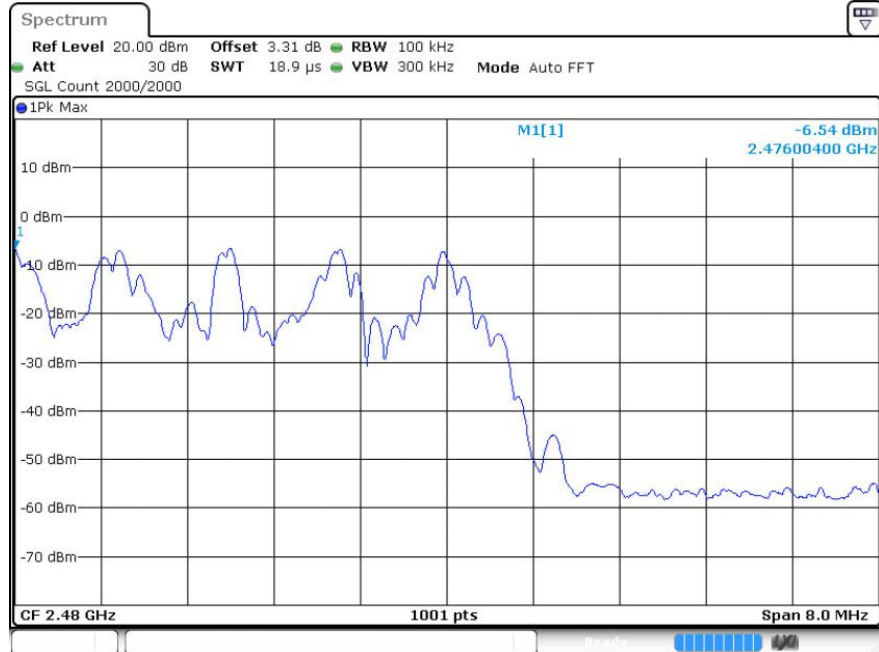
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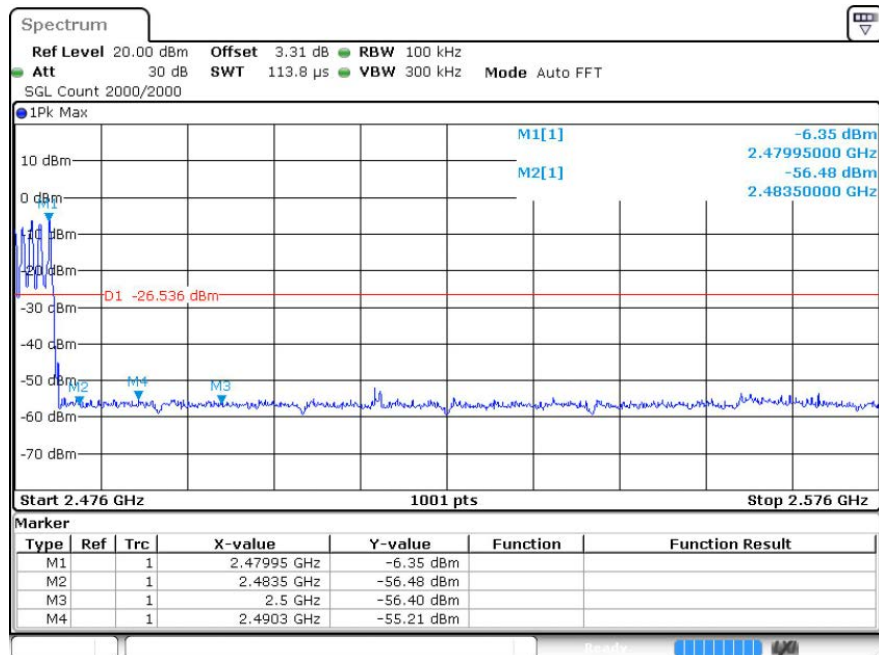
GFSK/HCH/No Hop



Ref.



GFSK/HCH/Hop



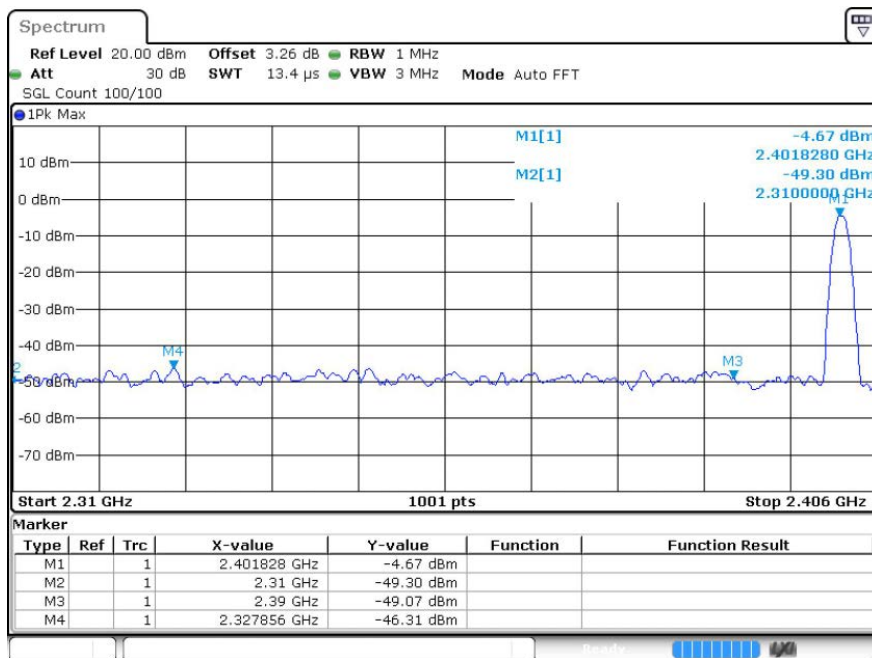
9 Restrict-band band-edge measurements

9.1 Test Result

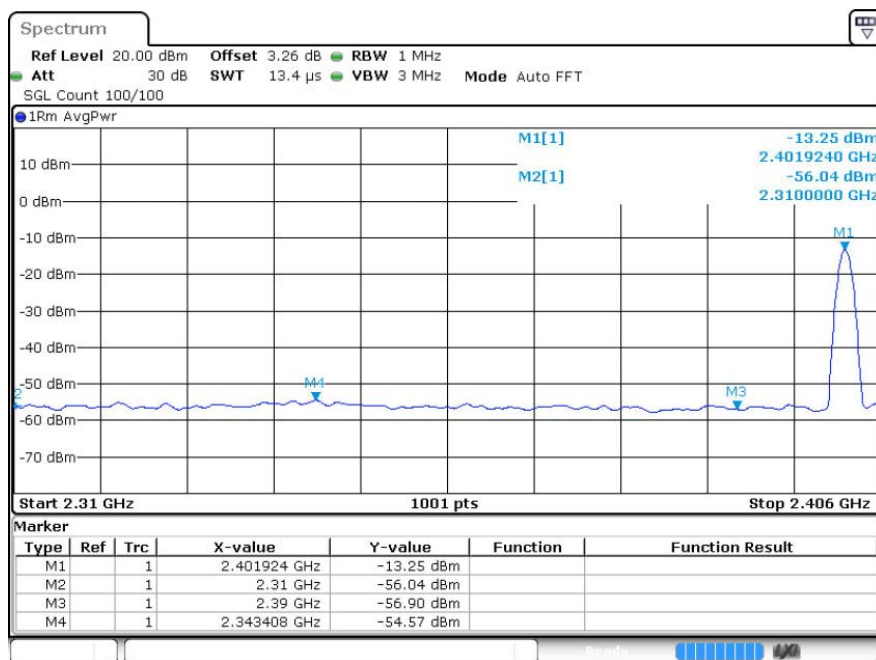
Test Mode	Hopping	Freq.	Power [dBm]	Gain	Duty Factor	E [dBuV/m]	Detector	Limit [dBuV/m]	Verdict
GFSK	Off	2310.0	-49.3	2	-	47.96	PEAK	74	Pass
	Off	2310.0	-56.04	2	7.35	48.57	AV	54	Pass
	Off	2327.856	-46.31	2	-	50.95	PEAK	74	Pass
	Off	2343.408	-54.57	2	7.35	50.04	AV	54	Pass
	Off	2390.0	-49.07	2	-	48.19	PEAK	74	Pass
	Off	2390.0	-56.9	2	7.35	47.71	AV	54	Pass
	Off	2483.5	-50.33	2	-	46.93	PEAK	74	Pass
	Off	2483.5	-55.31	2	7.35	49.3	AV	54	Pass
	Off	2487.136	-47	2	-	50.26	PEAK	74	Pass
	Off	2483.704	-55.23	2	7.35	49.38	AV	54	Pass
	Off	2500.0	-48.21	2	-	49.05	PEAK	74	Pass
	Off	2500.0	-55.94	2	7.35	48.67	AV	54	Pass

9.2 Test Graphs

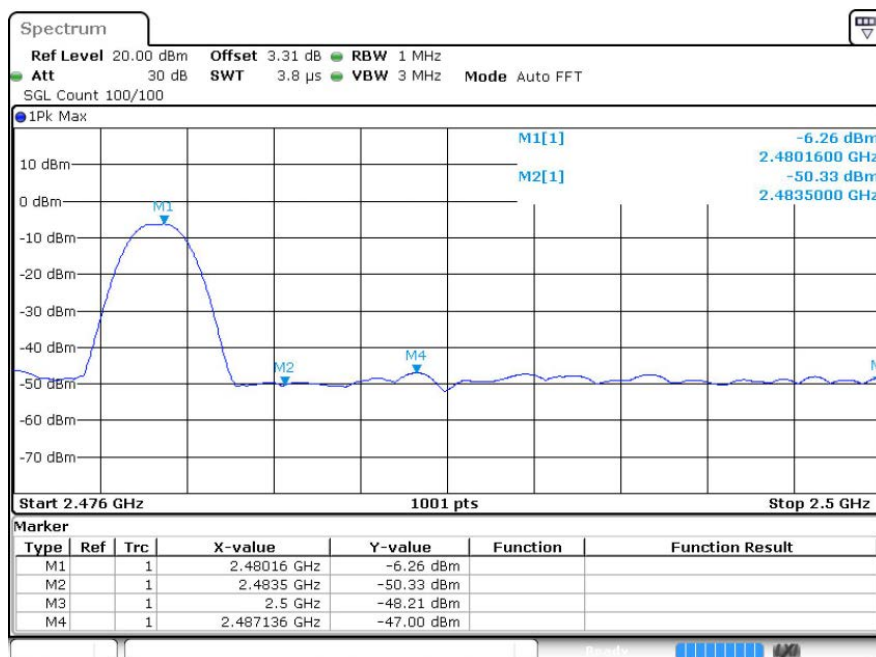
Restrict-band band-edge measurements_Hopping Off_ GFSK_PEAK (Low Channel)



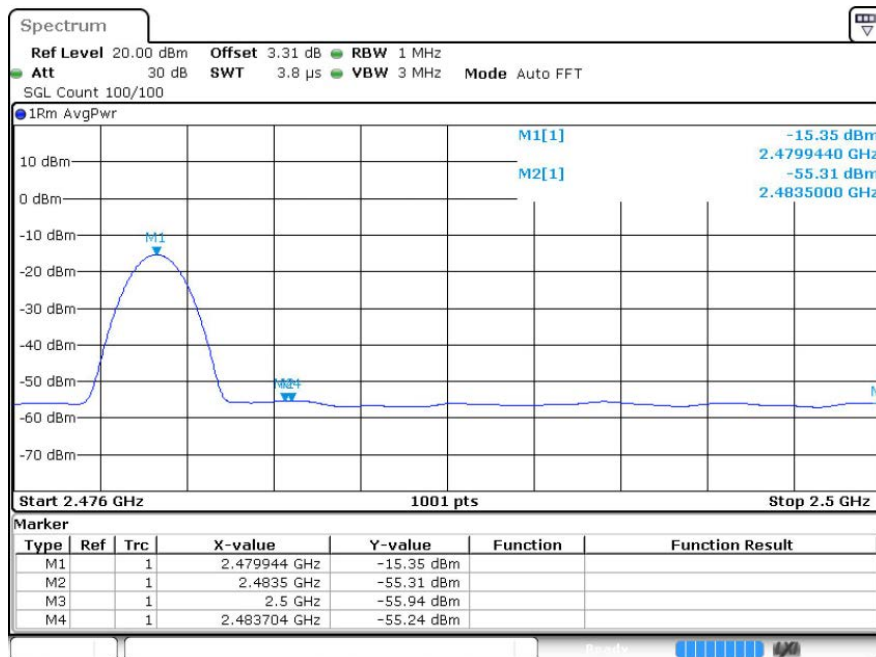
Restrict-band band-edge measurements_Hopping Off_ GFSK_Average (Low Channel)



Restrict-band band-edge measurements_Hopping Off_ GFSK_PEAK (High Channel)



Restrict-band band-edge measurements_Hopping Off_ GFSK_Average (High Channel)



---The End---