



Appendix A

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

Product Name: keyboard

Trade Mark: N/A

Test Model: KB02011

Environmental Conditions

Temperature:	25.4℃
Relative Humidity:	51.9%
ATM Pressure:	101Kpa
Test Engineer:	Simba Huang
Supervised by:	Seal Chen

Contents

Page

COVER PAGE

1	Duty Cycle	3
1.1	Test Result.....	3
1.2	Test Graphs	4
2	Maximum Conducted Peak Output Power	6
2.1	Test Result.....	6
2.2	Test Graphs	7
3	20dB Bandwidth	9
3.1	Test Result.....	9
3.2	Test Graphs	10
4	Carrier Frequency Separation	12
4.1	Test Result.....	12
4.2	Test Graphs	13
5	Hopping Channel Number.....	14
5.1	Test Result.....	14
5.2	Test Graphs	15
6	Dwell Time	16
6.1	Test Result.....	16
6.2	Test Graphs	17
7	RF Conducted Spurious Emissions.....	18
7.1	Test Result.....	18
7.2	Test Graphs	19
8	Band-edge for RF Conducted Emissions	22
8.1	Test Result.....	22
8.2	Test Graphs	23
9	Restrict-band band-edge measurements	27
9.1	Test Result.....	27
9.2	Test Graphs	28

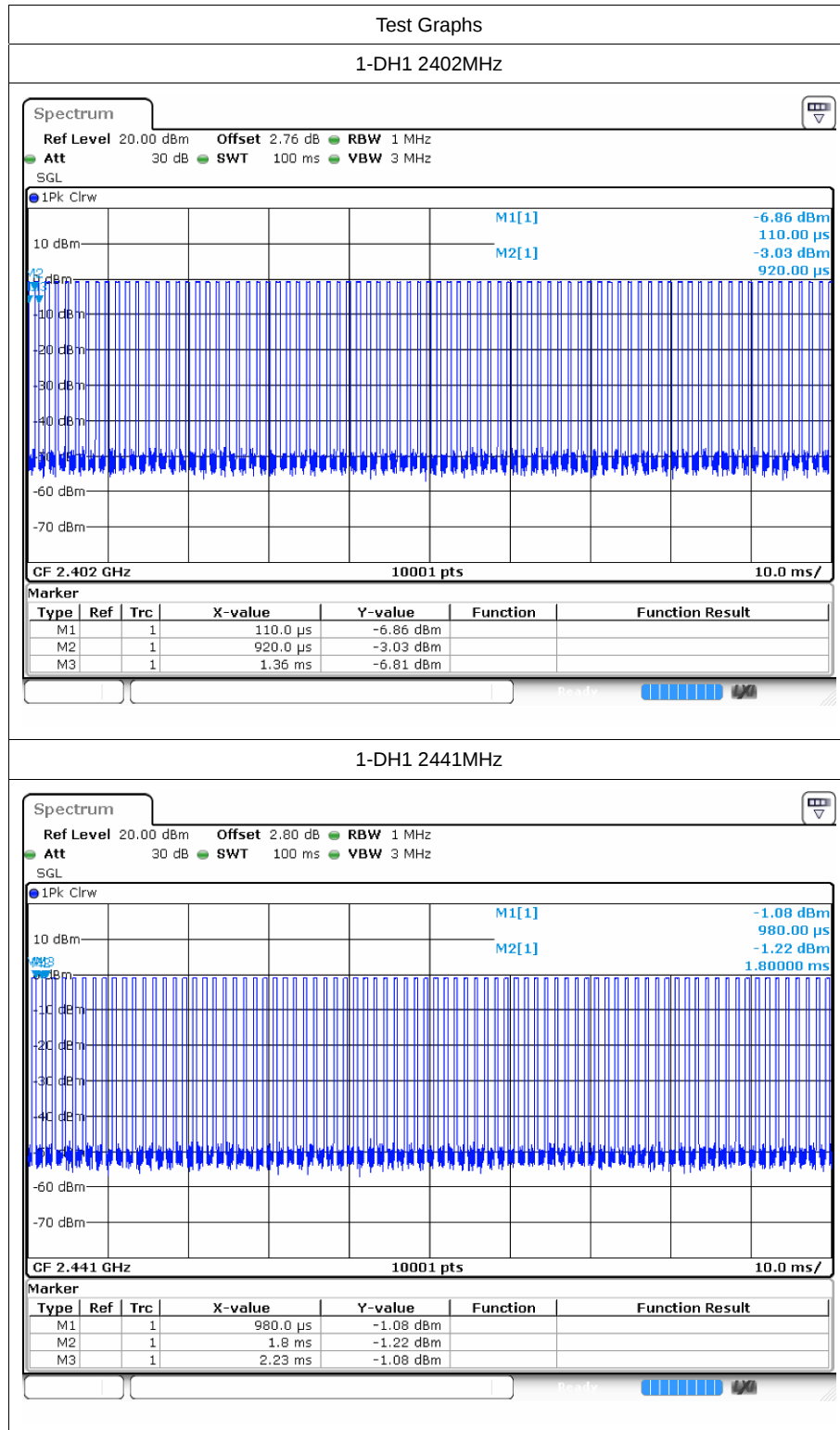


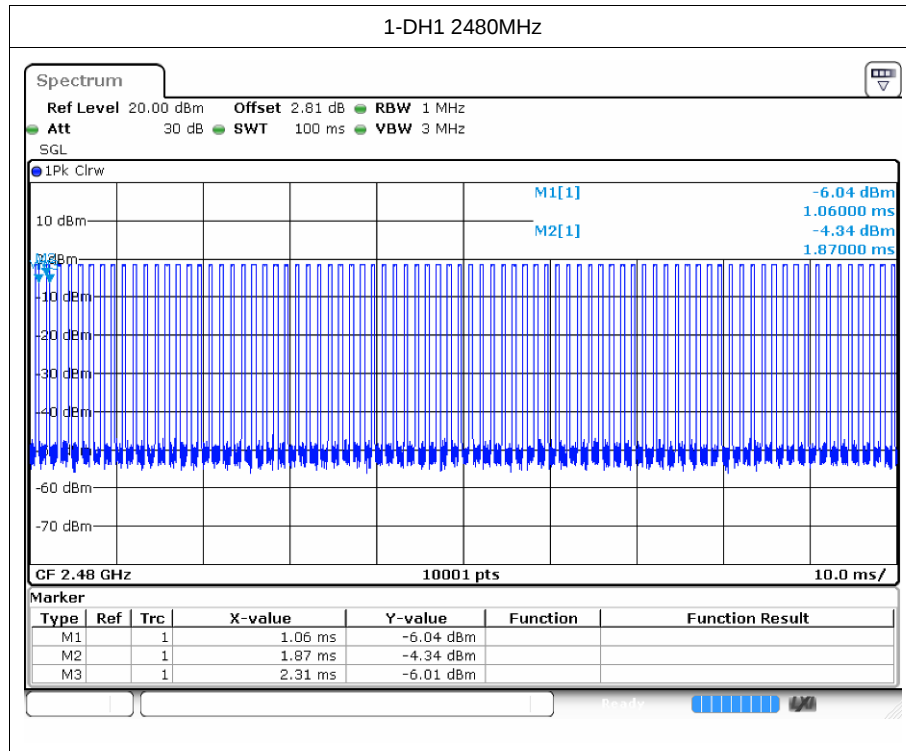
1 Duty Cycle

1.1 Test Result

Mode	Frequency (MHz)	Duty Cycle (%)	1/T (kHz)
1-DH1	2402	36.01	2.27
1-DH1	2441	35.2	2.33
1-DH1	2480	36	2.27

1.2 Test Graphs





2 Maximum Conducted Peak Output Power

2.1 Test Result

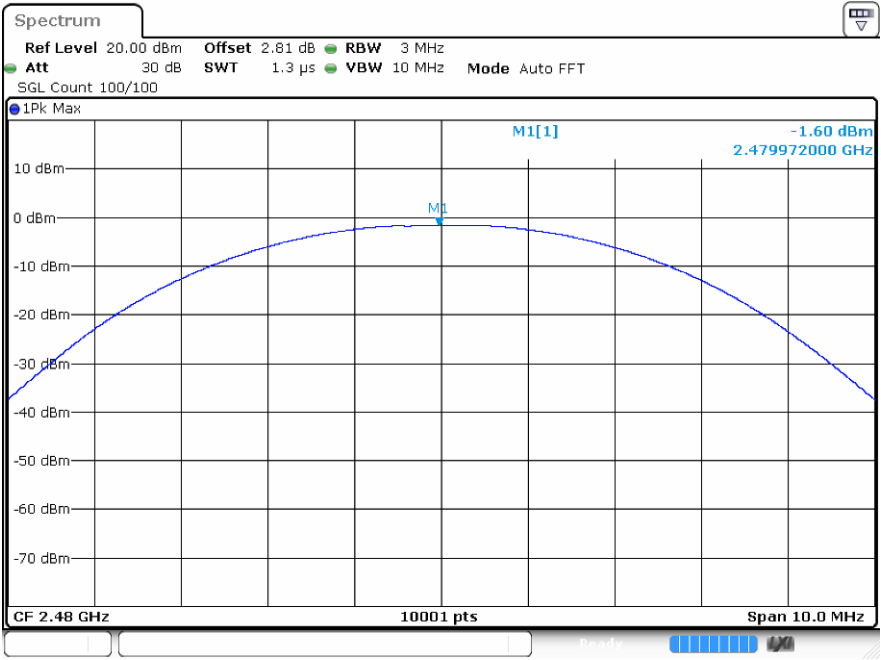
Mode	Channel.	Maximum Peak Output Power [dBm]	Limit [dBm]	Verdict
GFSK	LCH	-0.76	21	Pass
	MCH	-1.07	21	Pass
	HCH	-1.6	21	Pass

Test Graphs

Modulation	Carrier Frequency (GHz)	Power (dBm)
GFSK/LCH	2.402167000	-0.76
GFSK/MCH	2.441480000	-1.07



GFSK/HCH

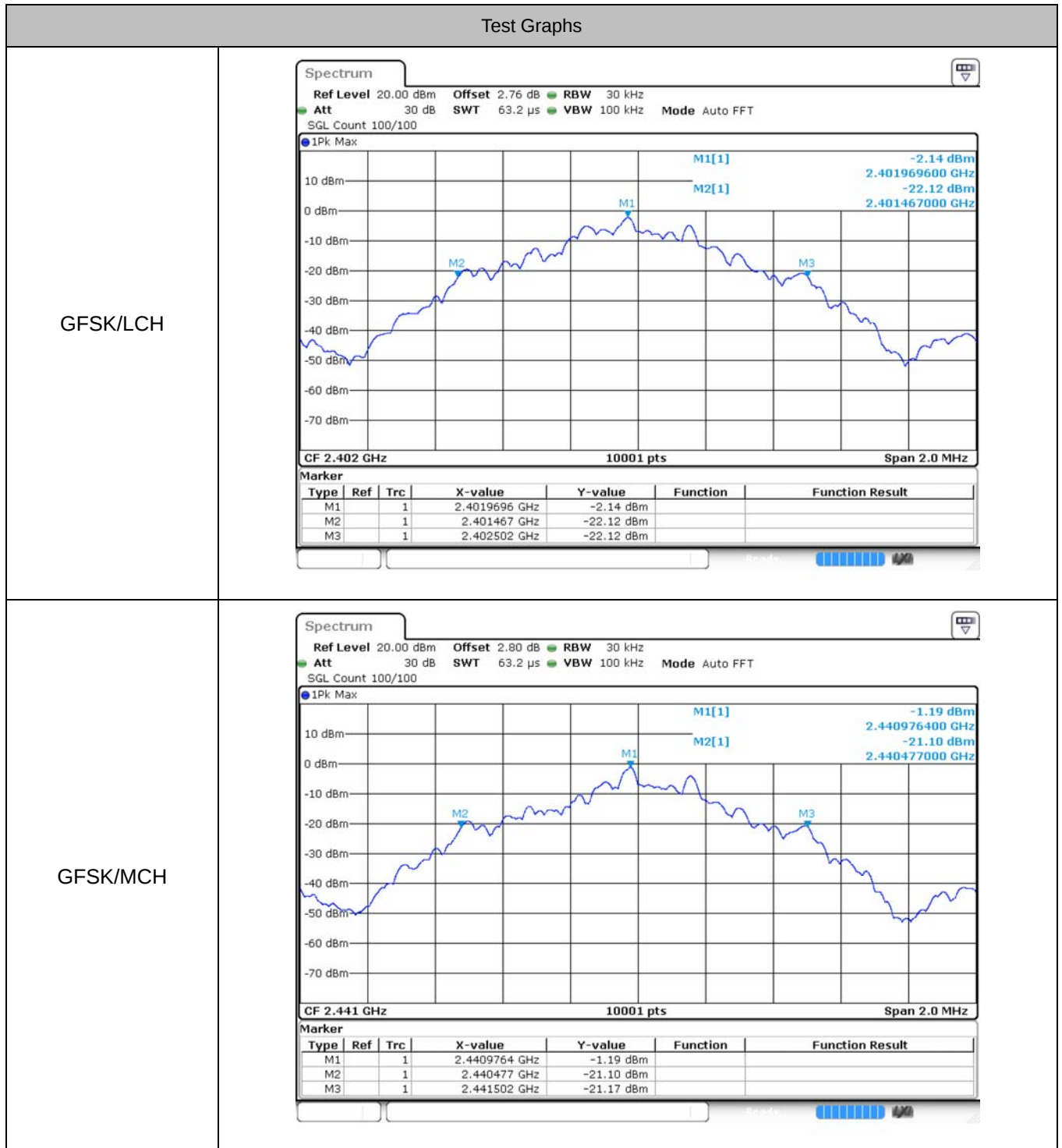


3 20dB Bandwidth

3.1 Test Result

Mode	Channel.	20dB Bandwidth [MHz]	Limit [MHz]	Verdict
GFSK	LCH	1.035	Not Specified	Pass
	MCH	1.026	Not Specified	Pass
	HCH	0.929	Not Specified	Pass

3.2 Test Graphs





GFSK/HCH

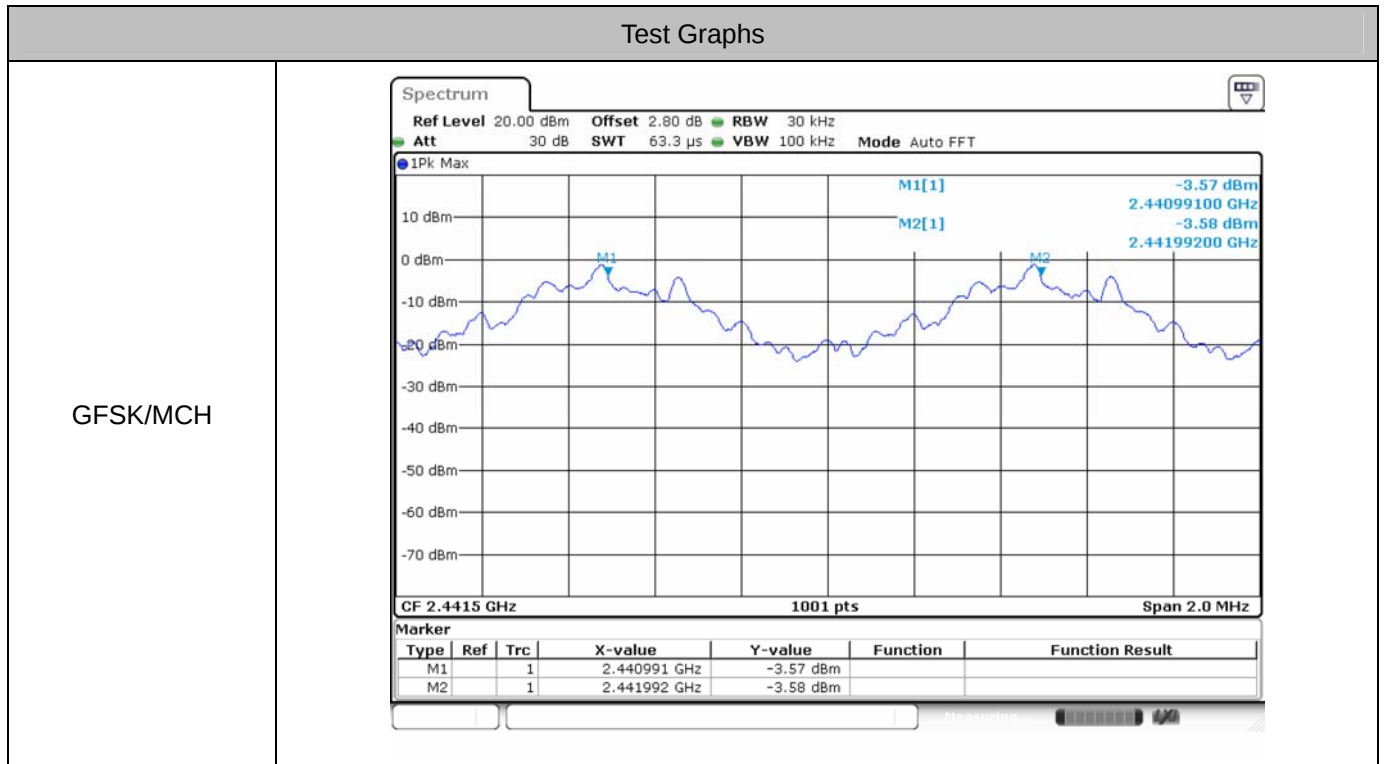


4 Carrier Frequency Separation

4.1 Test Result

Mode	Channel.	Carrier Frequency Separation [MHz]	Limit [MHz]	Verdict
GFSK	MCH	1.001	0.684	Pass

4.2 Test Graphs

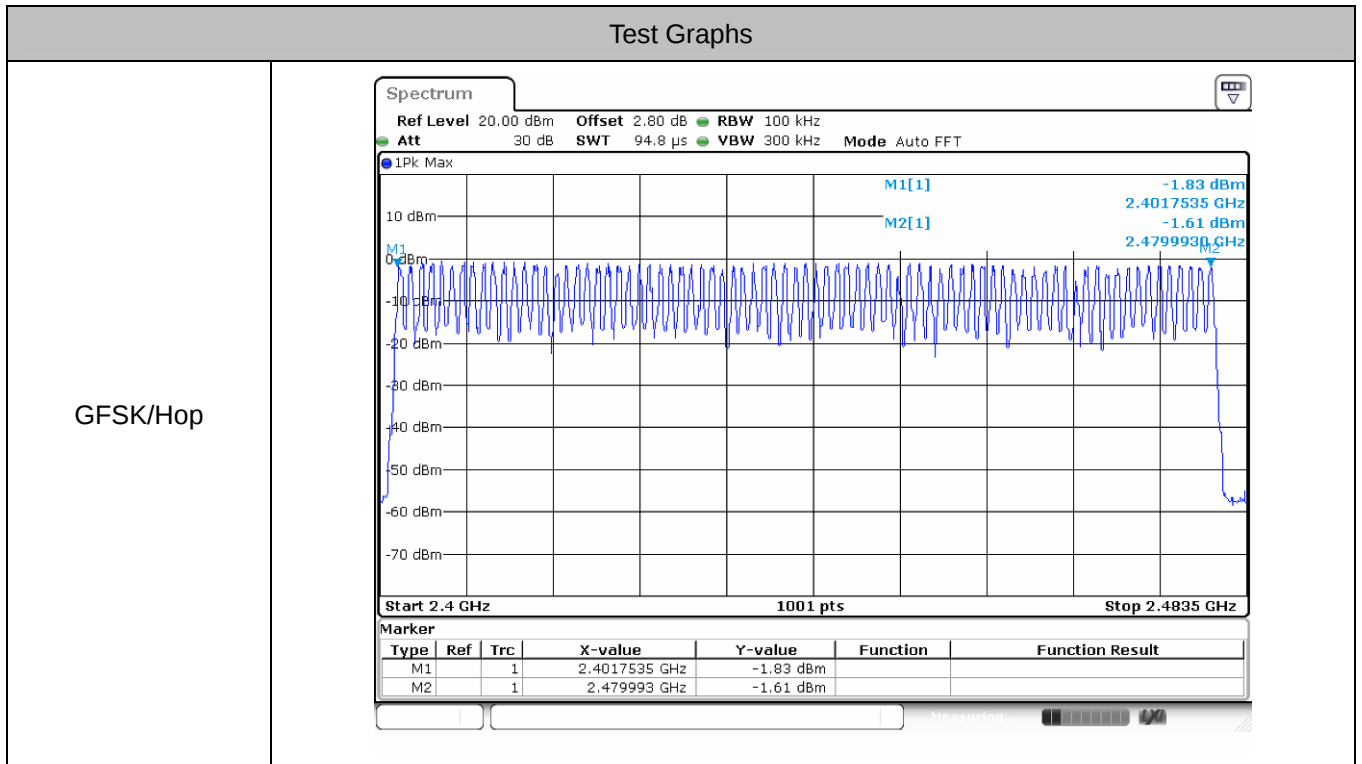


5 Hopping Channel Number

5.1 Test Result

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

5.2 Test Graphs

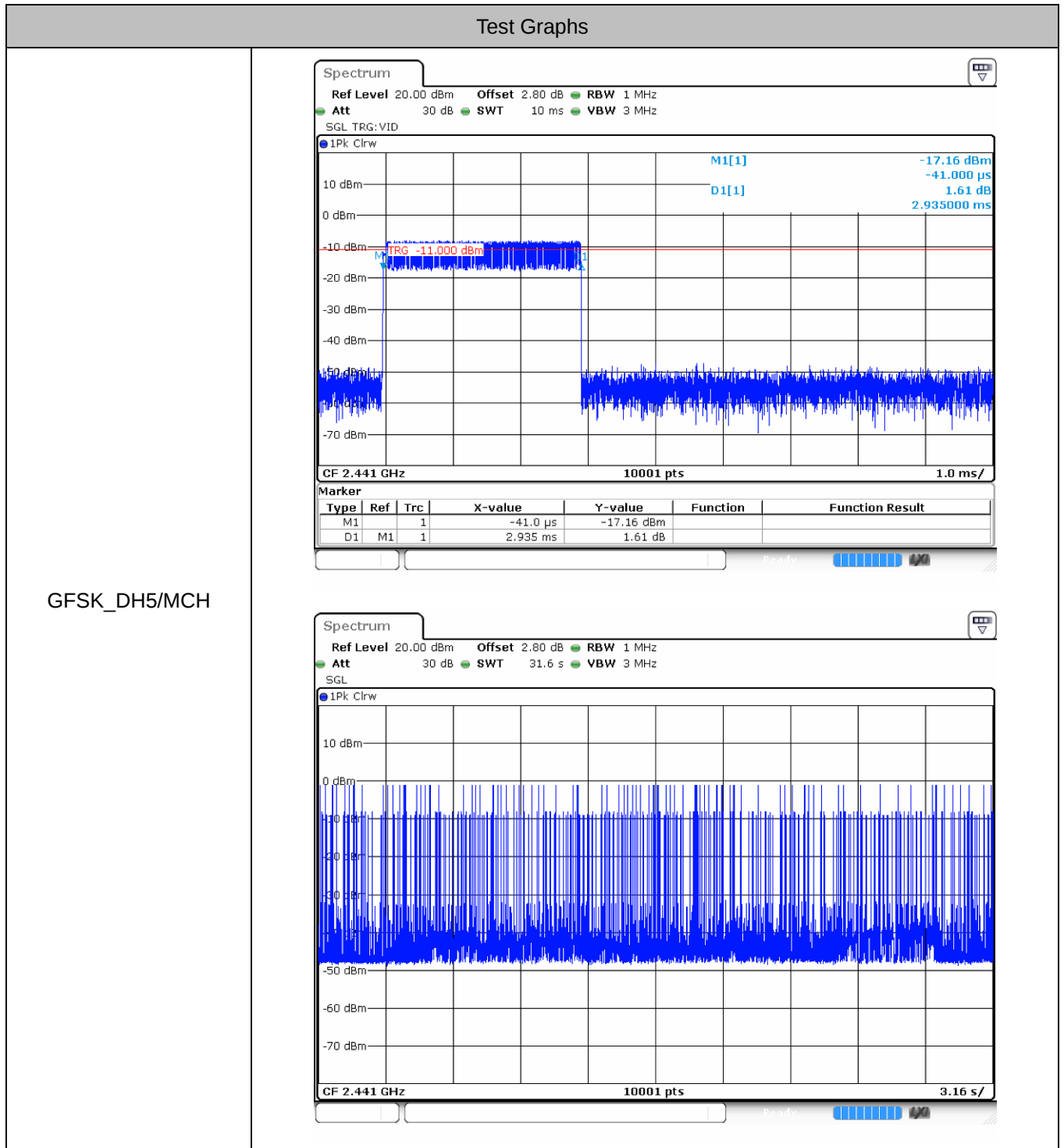


6 Dwell Time

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	95	278.825	0.4	Pass

6.2 Test Graphs

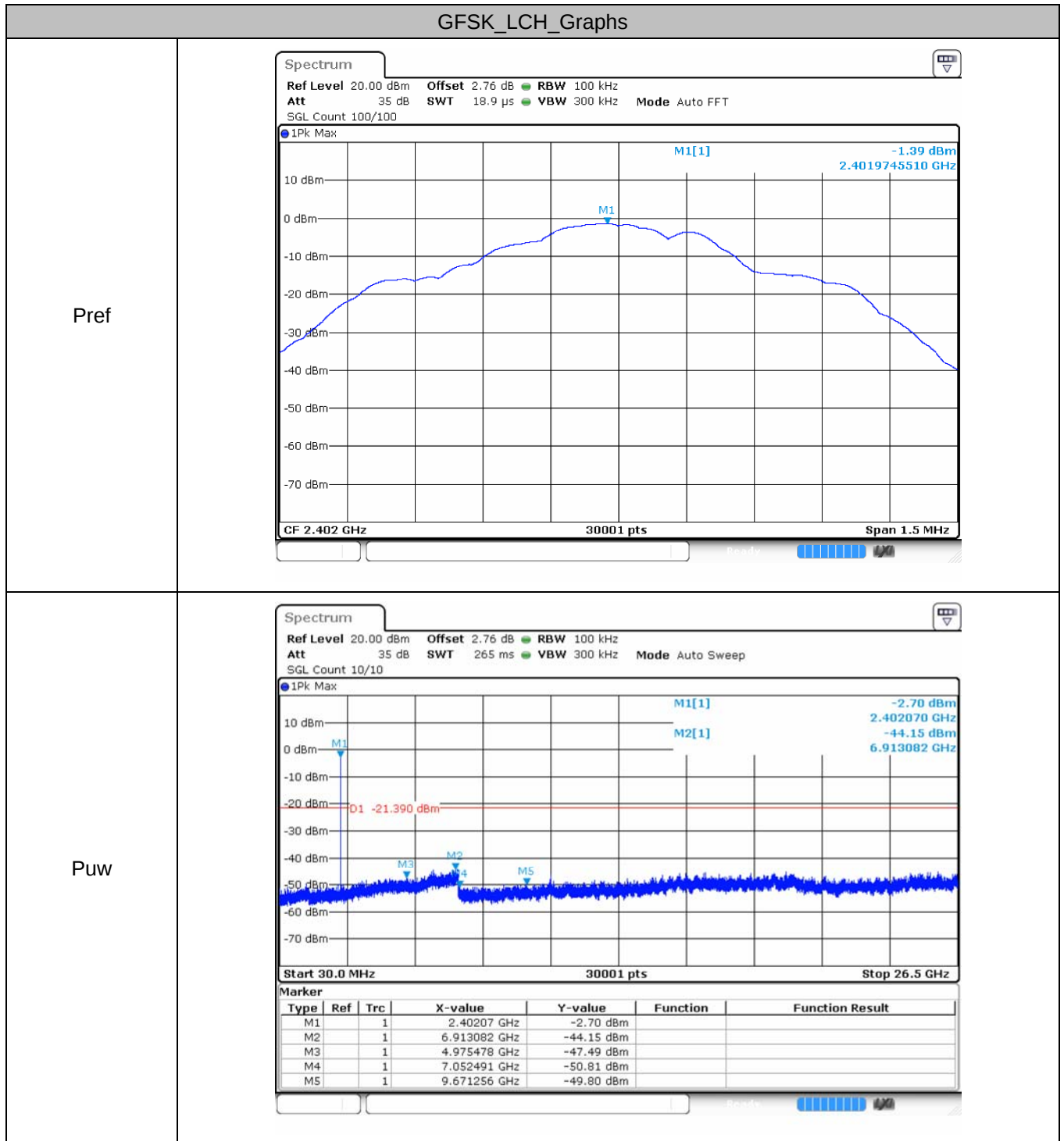


7 RF Conducted Spurious Emissions

7.1 Test Result

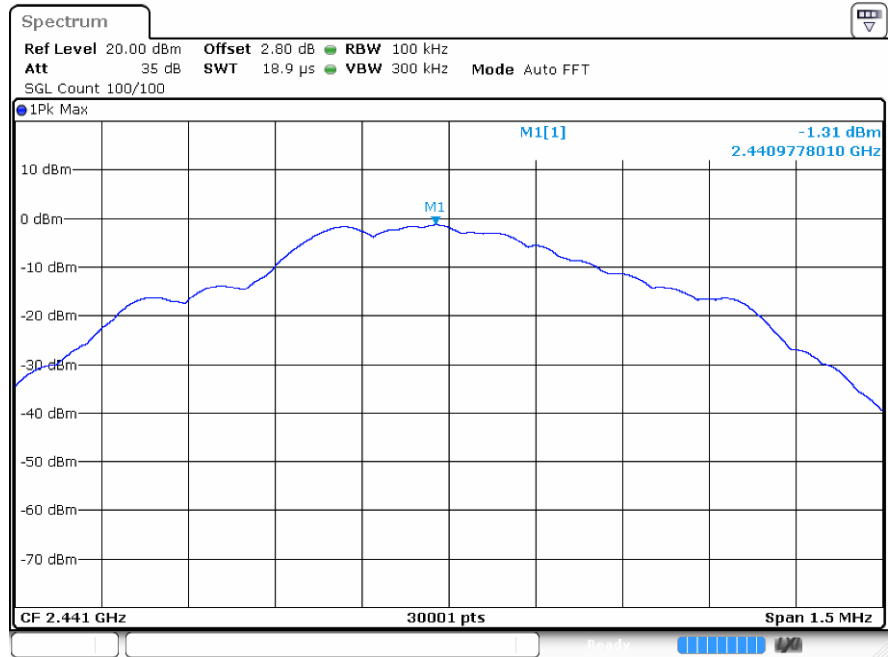
Mode	Channel	Max. Level [dBc]	Limit [dBc]	Verdict
GFSK	LCH	-42.76	-20	Pass
	MCH	-43.1	-20	Pass
	HCH	-42.28	-20	Pass

7.2 Test Graphs

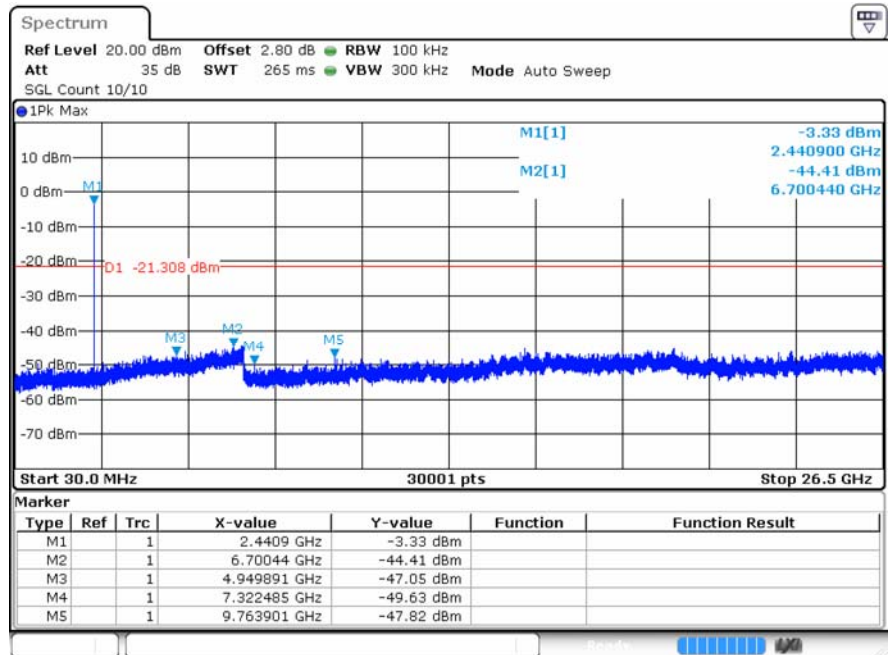


GFSK_MCH_Graphs

Pref

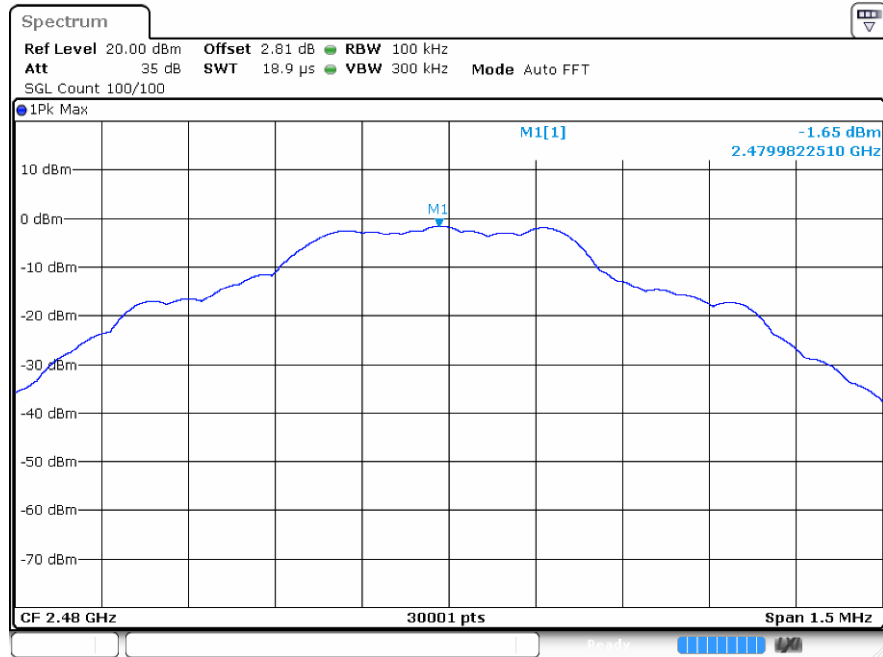


Puw

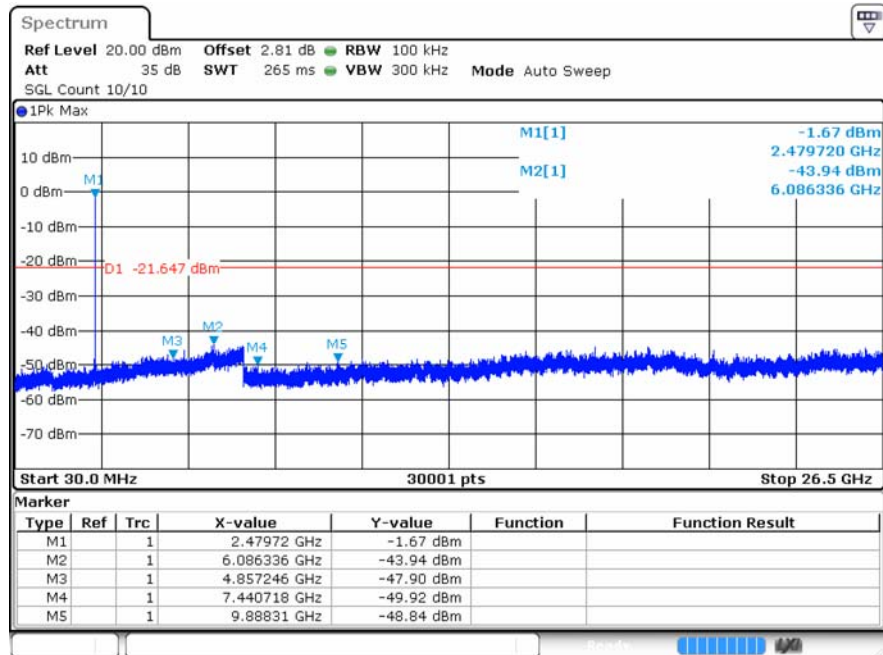


GFSK_HCH_Graphs

Pref



Puw

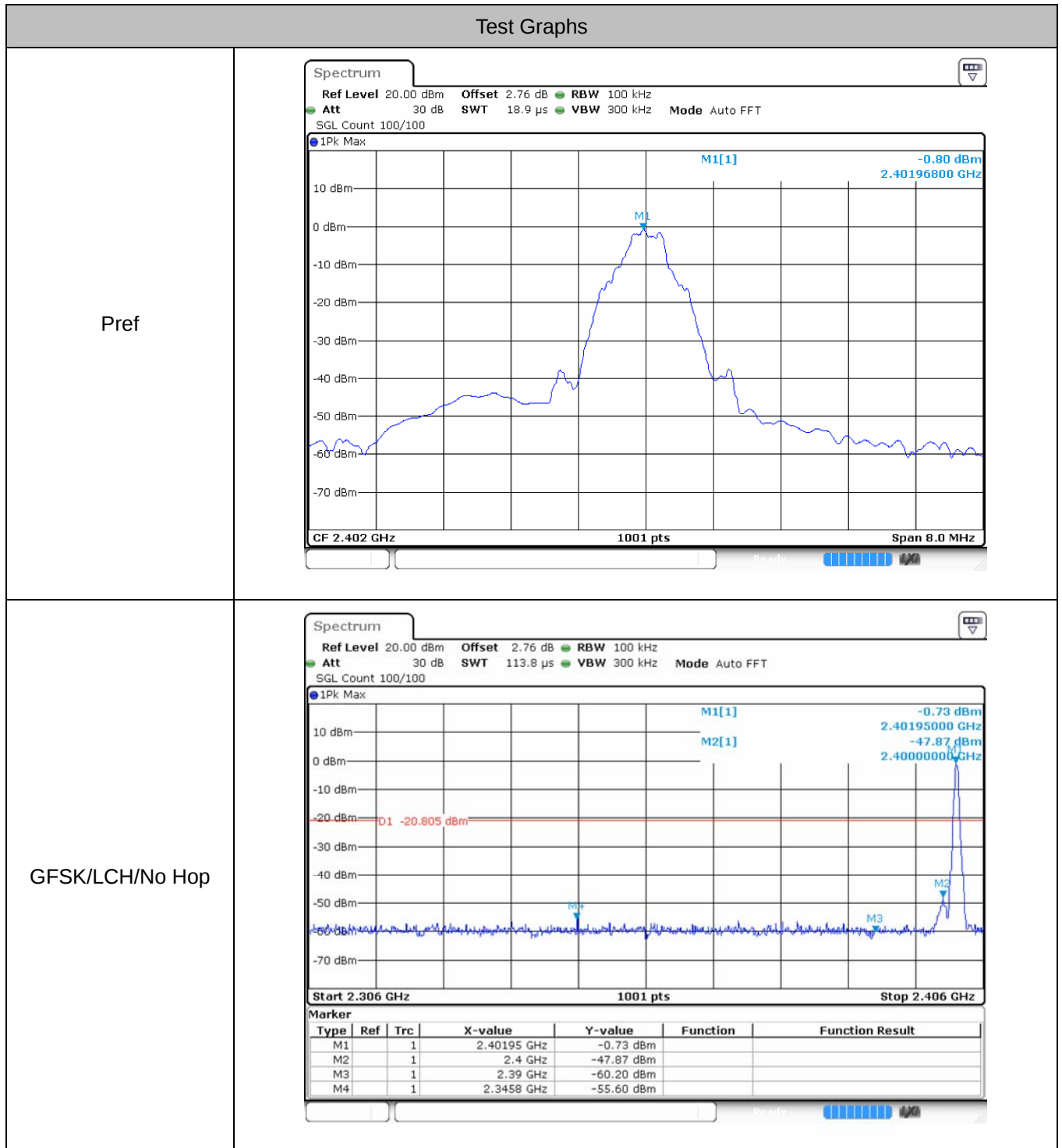


8 Band-edge for RF Conducted Emissions

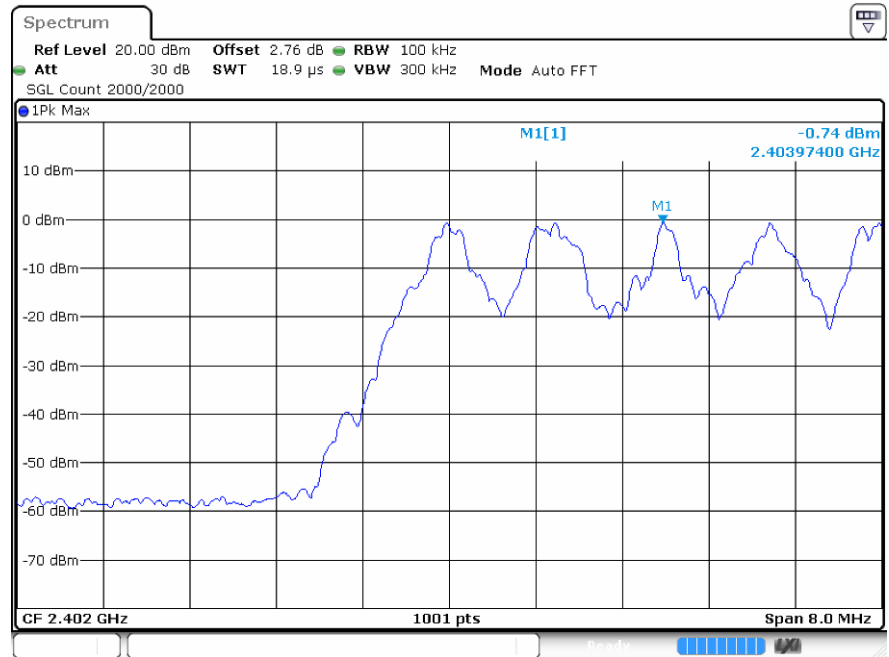
8.1 Test Result

Mode	Channel	Carrier Frequency [MHz]	Frequency Hopping	Max Spurious Level [dBc]	Limit [dBc]	Verdict
GFSK	LCH	2402	Off	-54.8	-20	Pass
			On	-53.61	-20	Pass
	HCH	2480	Off	-55.16	-20	Pass
			On	-54.17	-20	Pass

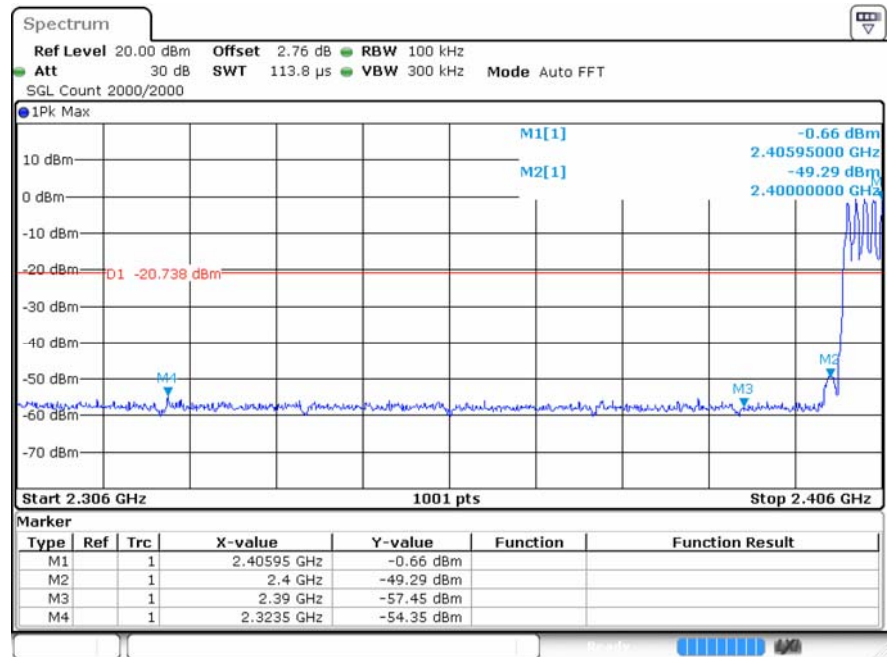
8.2 Test Graphs



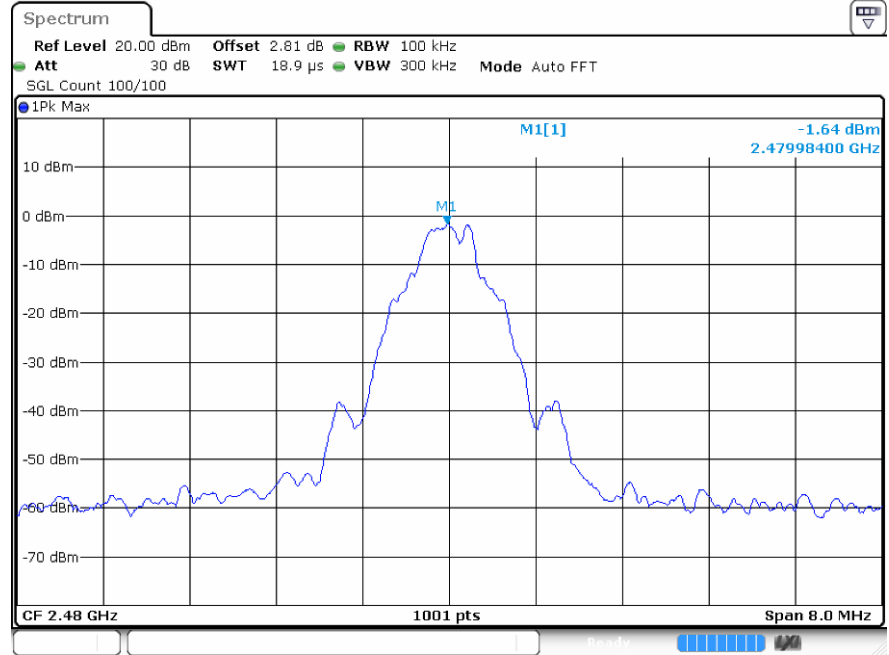
Ref



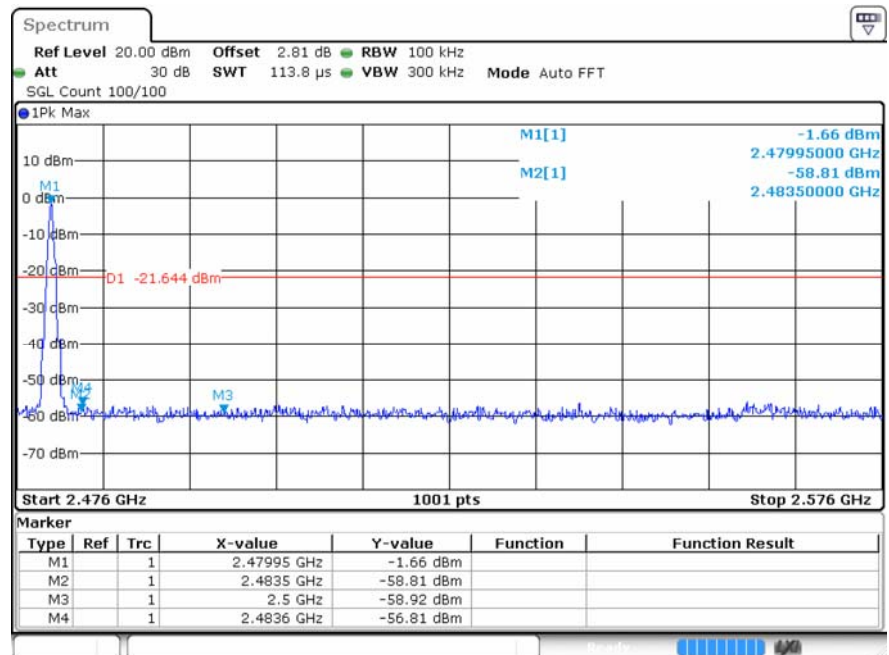
GFSK/LCH/Hop



Ref



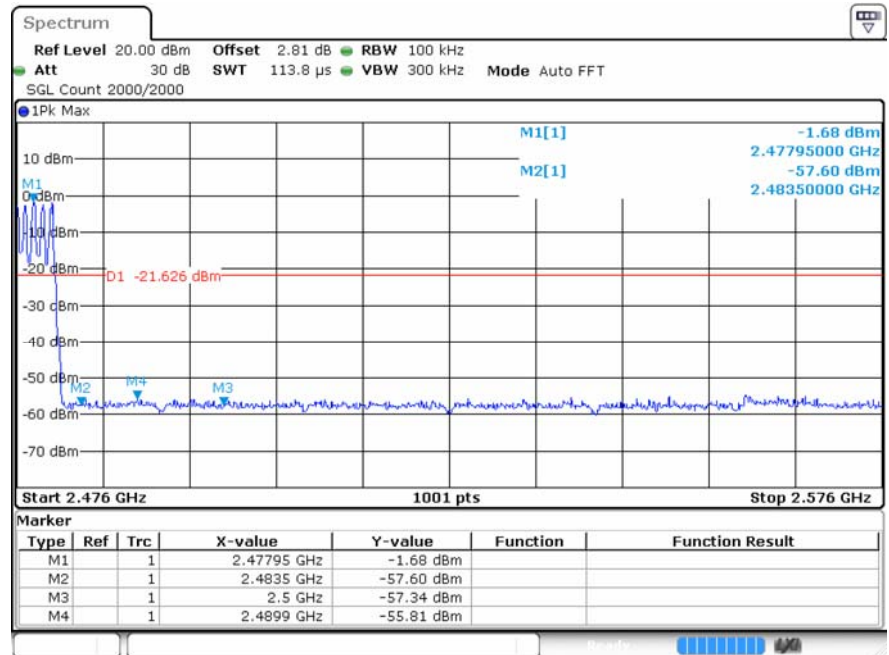
GFSK/HCH/No Hop



Ref.



GFSK/HCH/Hop



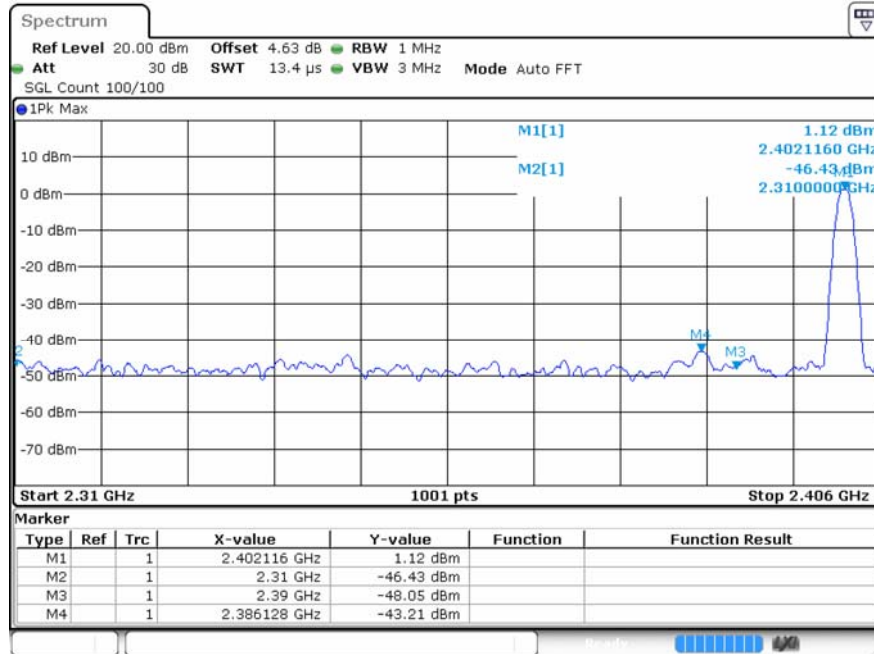
9 Restrict-band band-edge measurements

9.1 Test Result

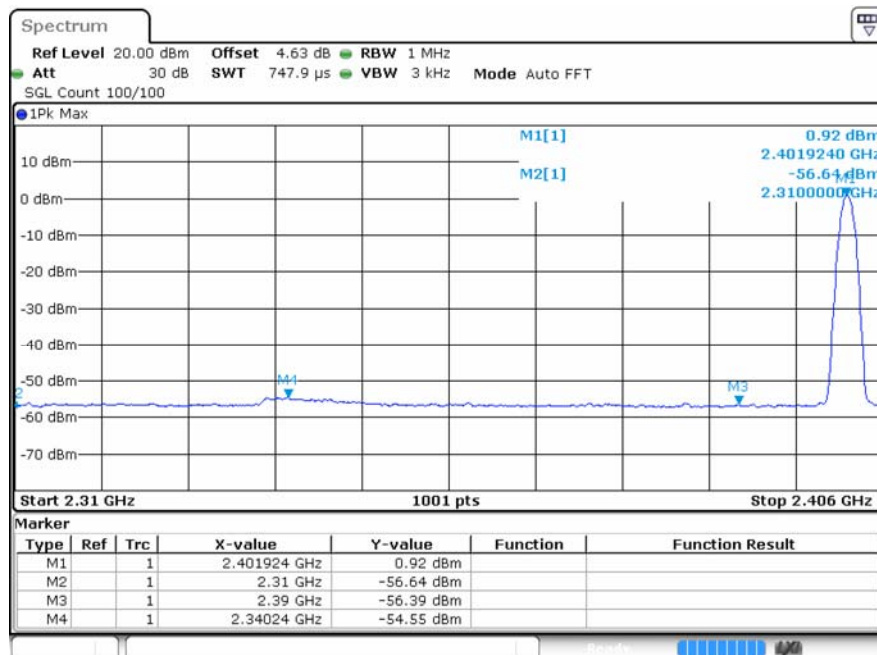
Test Mode	Hopping	Freq.	Power [dBm]	Gain	E [dBuV/m]	Detector	Limit [dBuV/m]	Verdict
GFSK	Off	2310.0	-46.43	2	50.83	PEAK	74	Pass
	Off	2310.0	-56.64	2	40.62	AV	54	Pass
	Off	2386.128	-43.21	2	54.05	PEAK	74	Pass
	Off	2340.24	-54.54	2	42.72	AV	54	Pass
	Off	2390.0	-48.05	2	49.21	PEAK	74	Pass
	Off	2390.0	-56.39	2	40.87	AV	54	Pass
	Off	2483.5	-47.6	2	49.66	PEAK	74	Pass
	Off	2483.5	-56.29	2	40.97	AV	54	Pass
	Off	2498.152	-45.38	2	51.88	PEAK	74	Pass
	Off	2499.184	-55.72	2	41.54	AV	54	Pass
	Off	2500.0	-47.45	2	49.81	PEAK	74	Pass
	Off	2500.0	-56.31	2	40.95	AV	54	Pass

9.2 Test Graphs

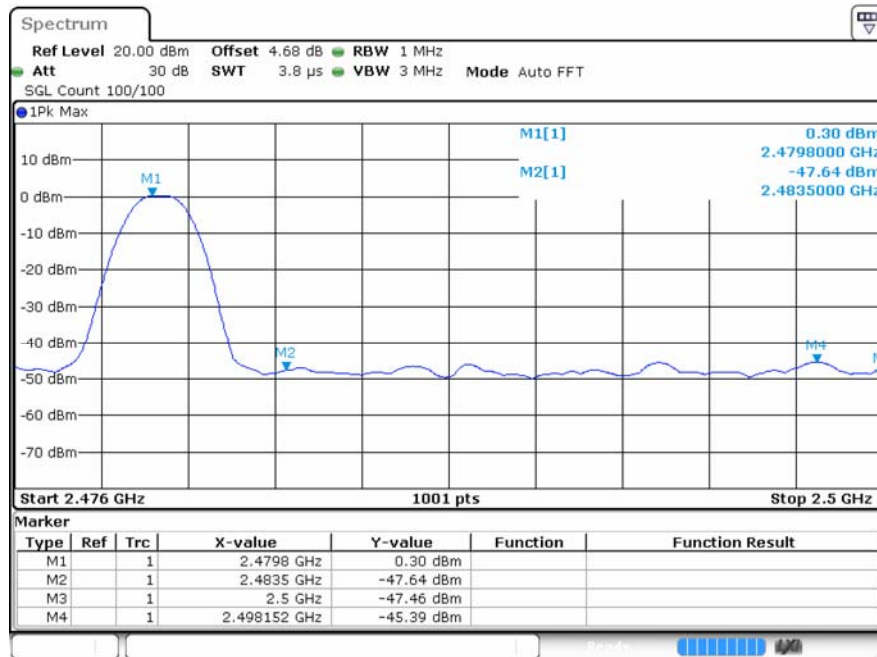
Restrict-band band-edge measurements_Hopping Off_ GFSK_PEAK (Low Channel)



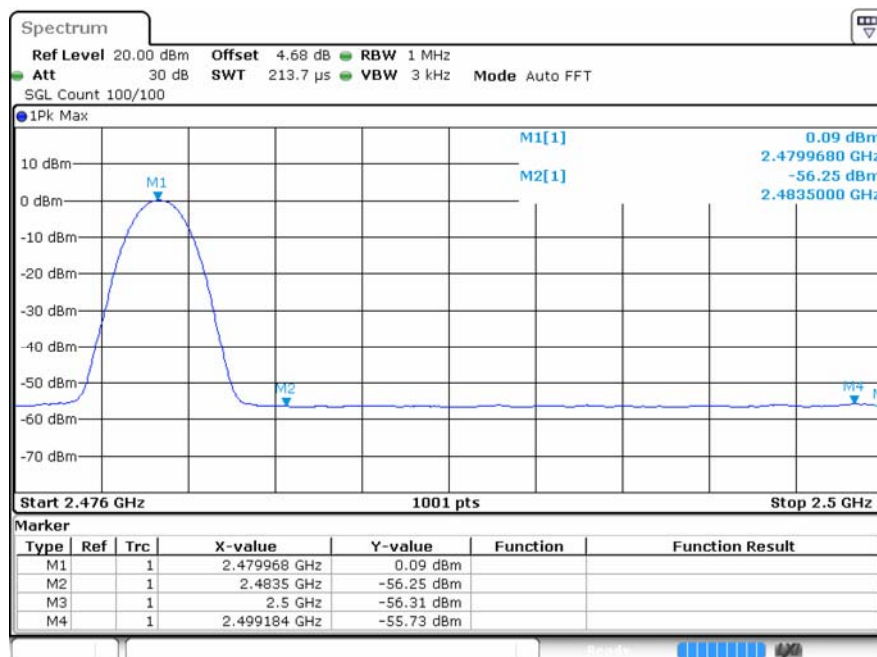
Restrict-band band-edge measurements_Hopping Off_ GFSK_Average (Low Channel)



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



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



---The End---