

Appendix A

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

Product Name: Point of Sale Terminal

Trade Mark:



Test Model: MP45

Environmental Conditions

Temperature:	21.5℃
Relative Humidity:	55.0%
ATM Pressure:	101Kpa
Test Engineer:	Simba Huang
Supervised by:	Seal Chen



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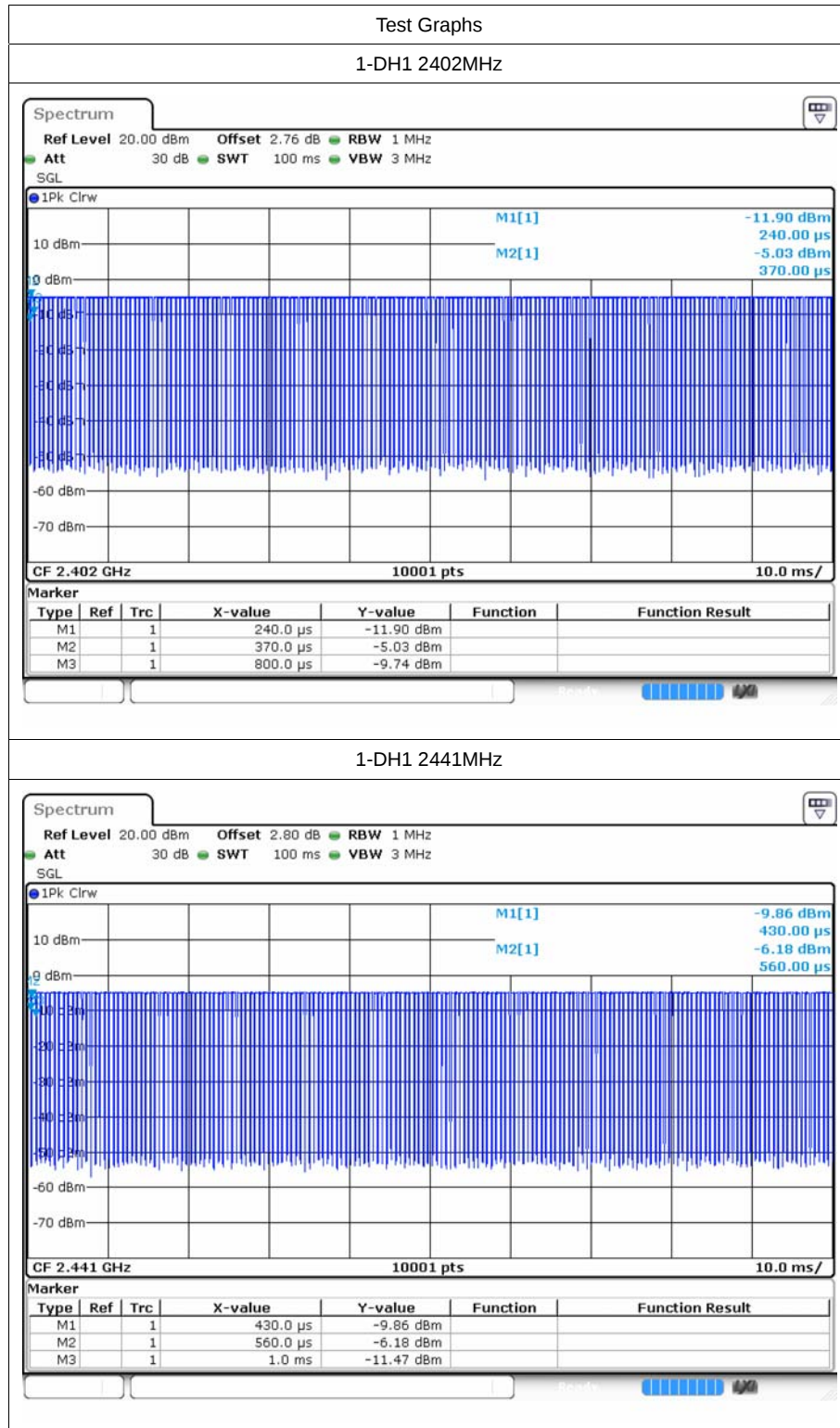


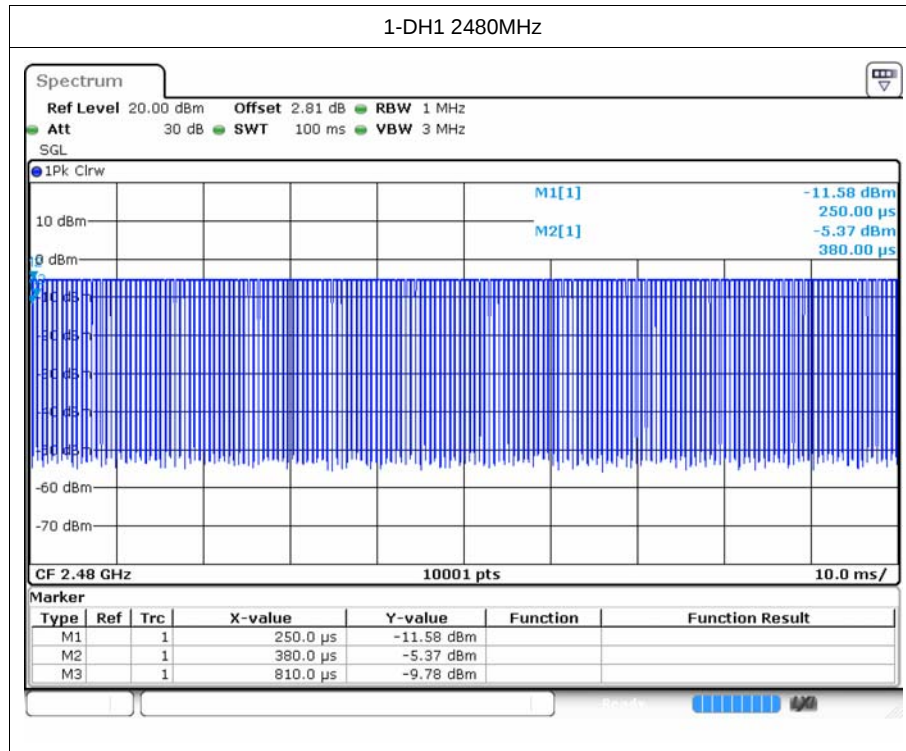
1 Duty Cycle

1.1 Test Result

Mode	Frequency (MHz)	Duty Cycle (%)	1/T (kHz)
1-DH1	2402	78.52	2.33
1-DH1	2441	78.58	2.27
1-DH1	2480	78.5	2.33

1.2 Test Graphs



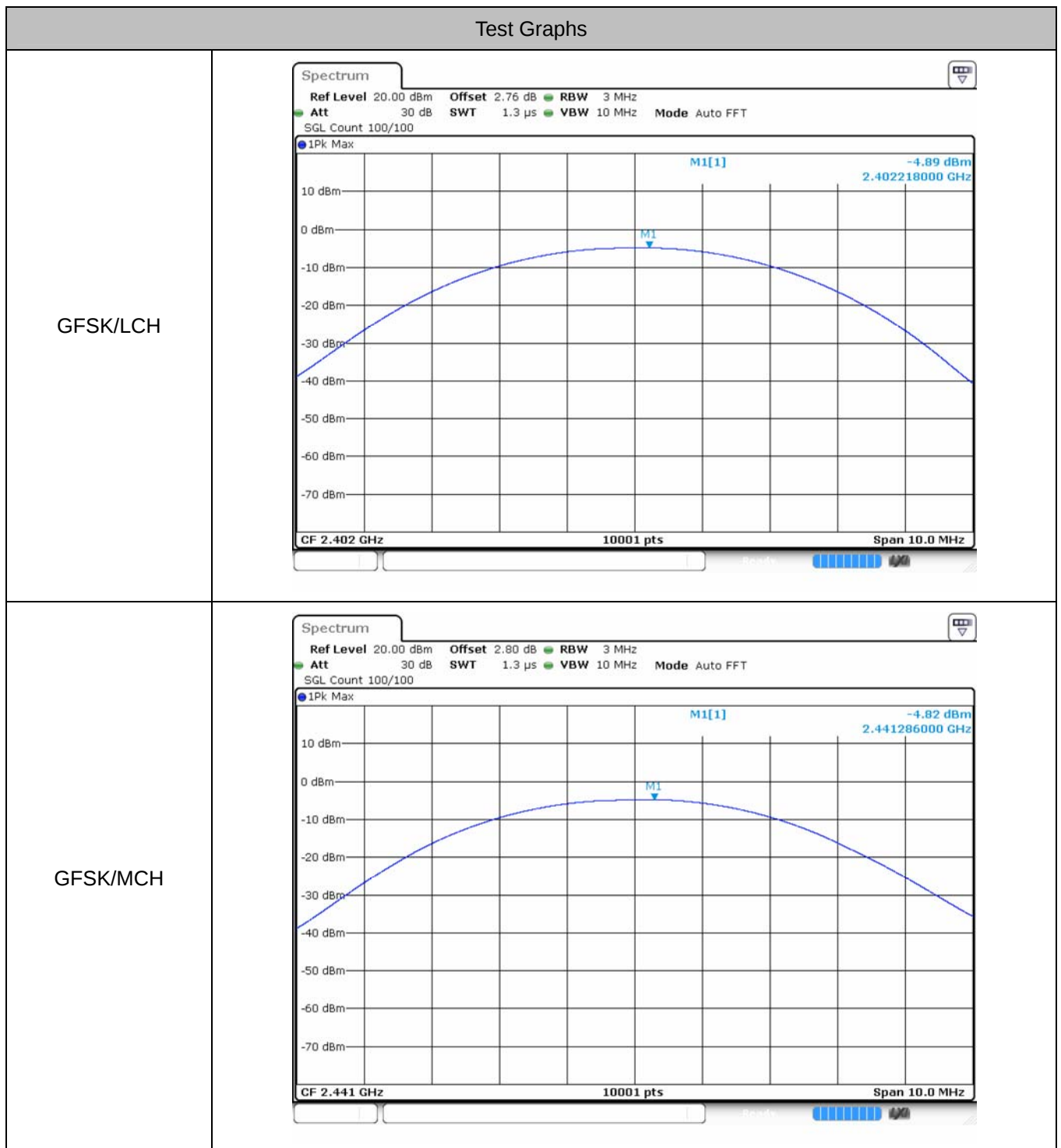


2 Maximum Conducted Peak Output Power

2.1 Test Result

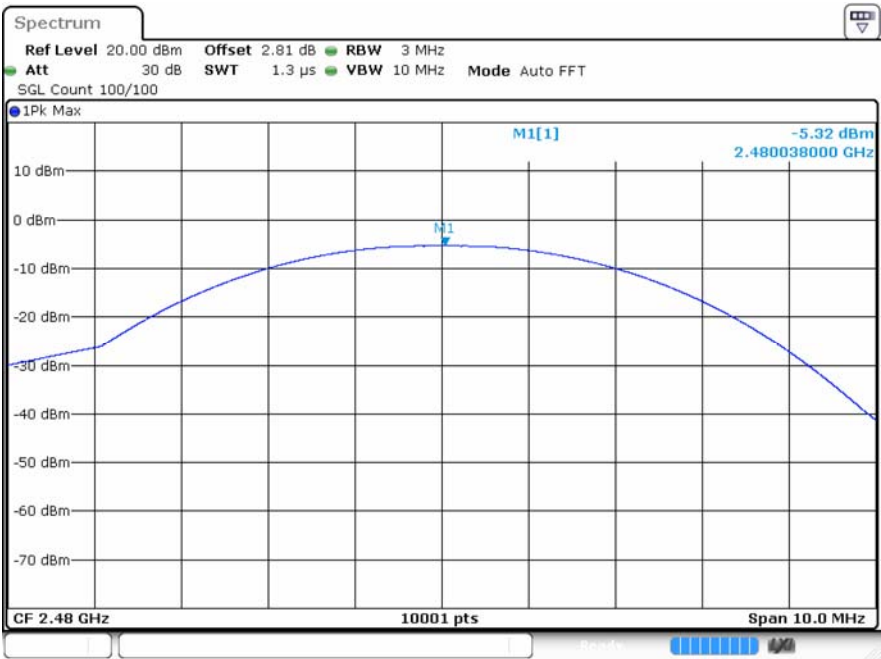
Mode	Channel.	Maximum Peak Output Power [dBm]	Limit [dBm]	Verdict
GFSK	LCH	-4.89	21	Pass
	MCH	-4.82	21	Pass
	HCH	-5.32	21	Pass

2.2 Test Graphs





GFSK/HCH

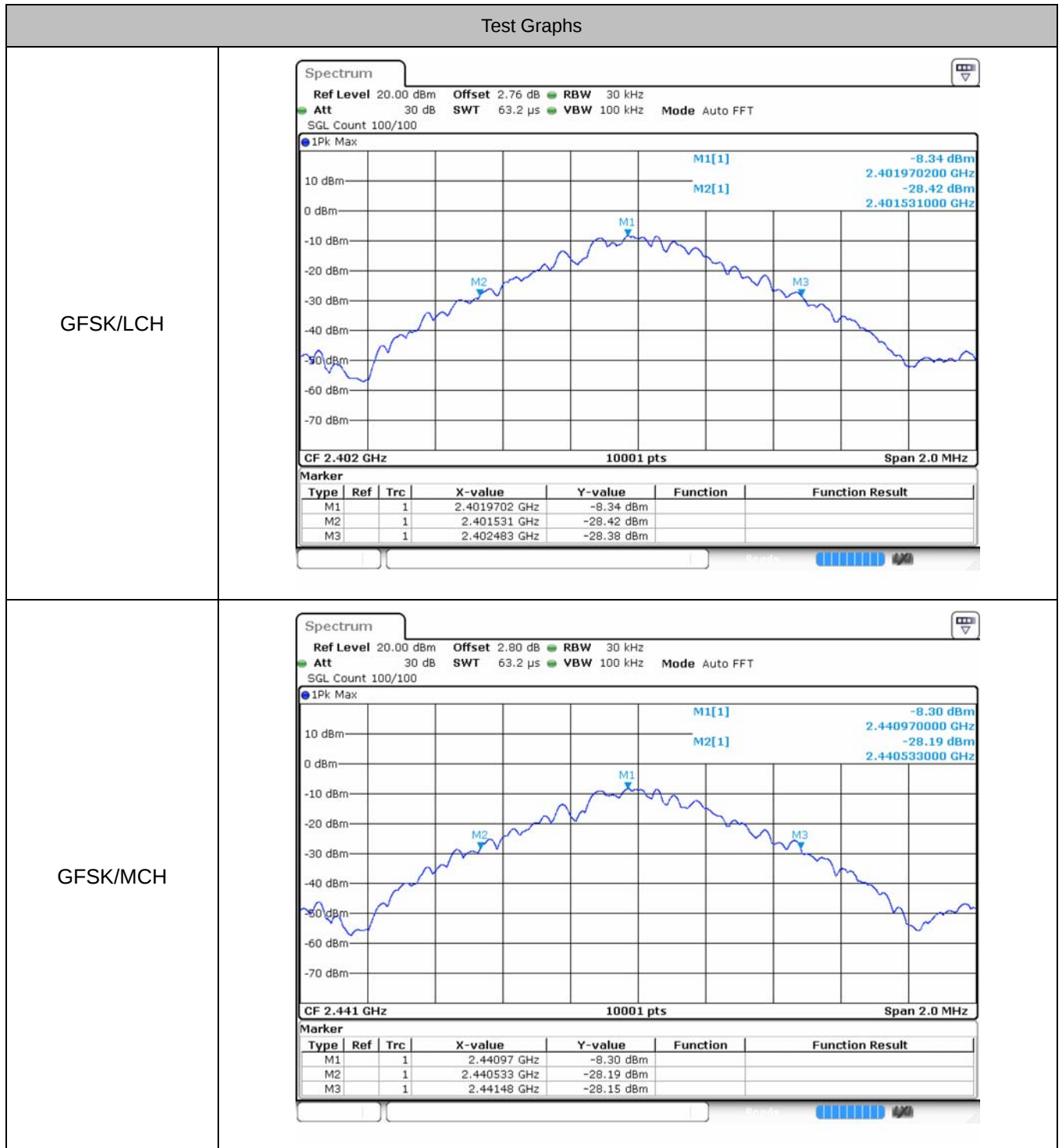


3 20dB Bandwidth

3.1 Test Result

Mode	Channel.	20dB Bandwidth [MHz]	Limit [MHz]	Verdict
GFSK	LCH	0.951	Not Specified	Pass
	MCH	0.948	Not Specified	Pass
	HCH	0.959	Not Specified	Pass

3.2 Test Graphs





GFSK/HCH

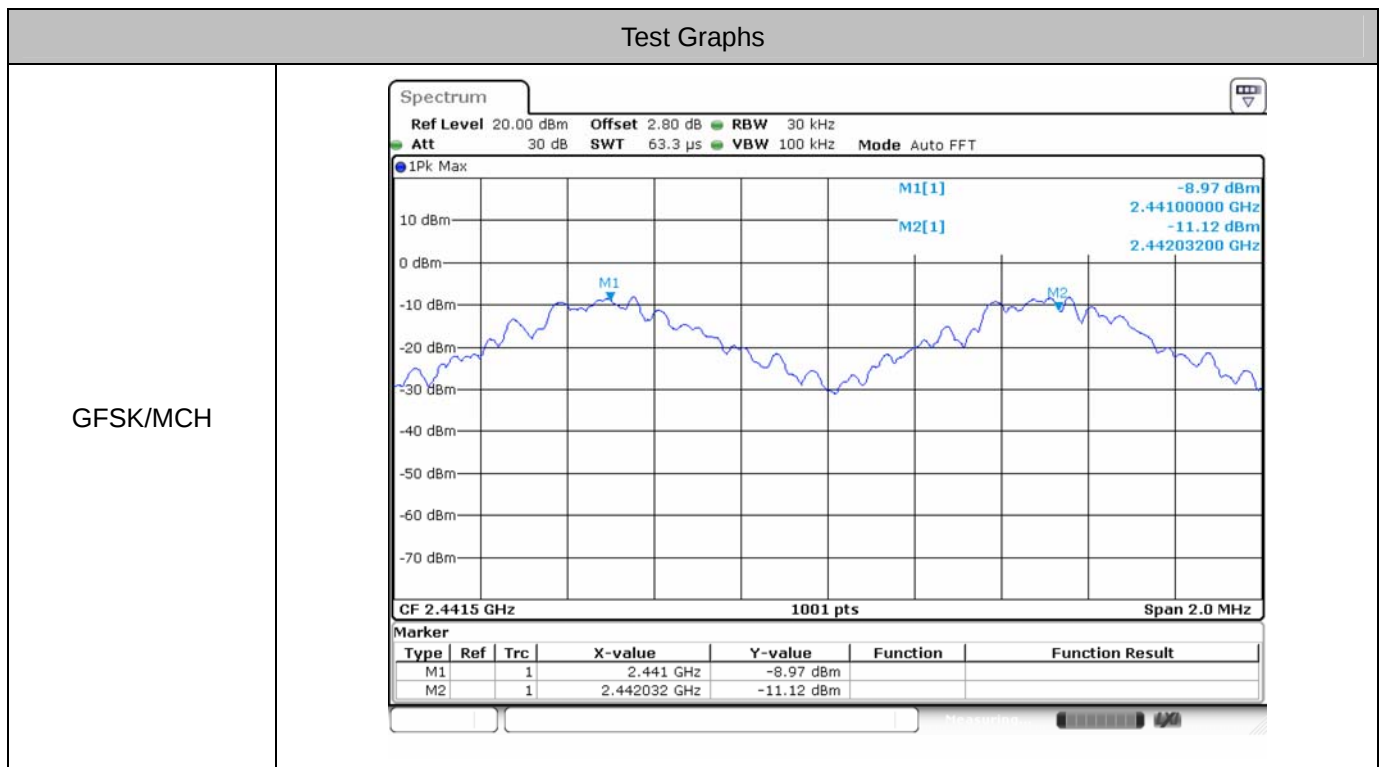


4 Carrier Frequency Separation

4.1 Test Result

Mode	Channel.	Carrier Frequency Separation [MHz]	Limit [MHz]	Verdict
GFSK	MCH	1.032	0.632	Pass

4.2 Test Graphs



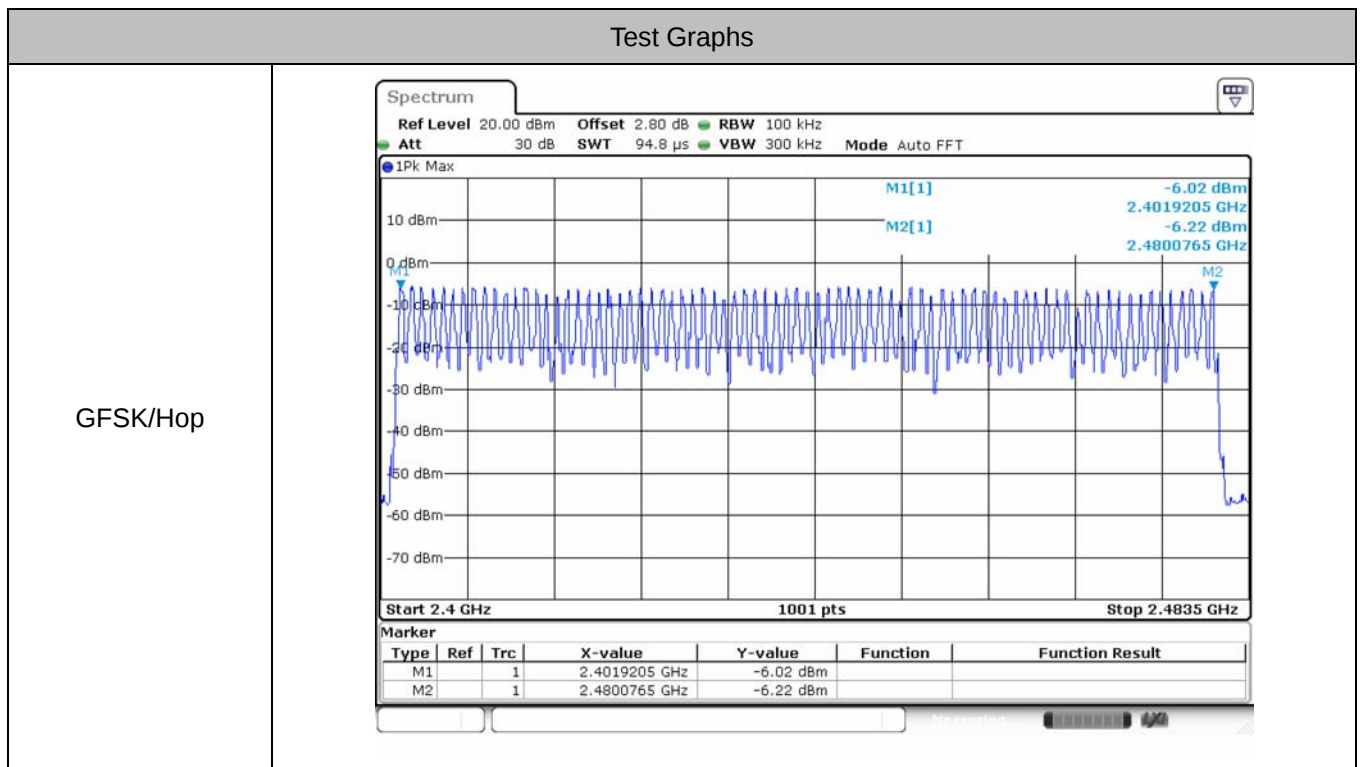


5 Hopping Channel Number

5.1 Test Result

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

5.2 Test Graphs



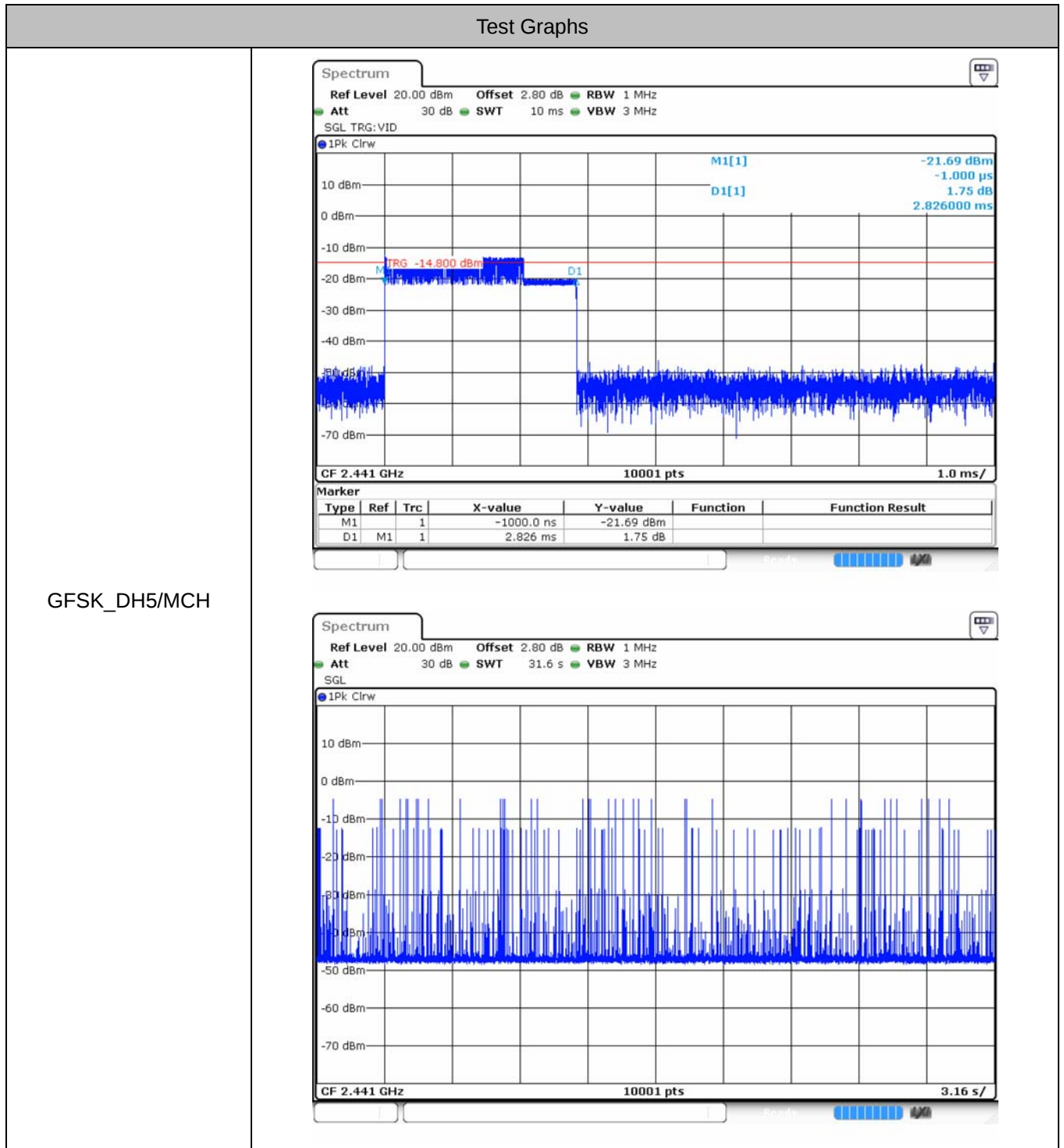


6 Dwell Time

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	2.826	38	107.388	0.4	Pass

6.2 Test Graphs

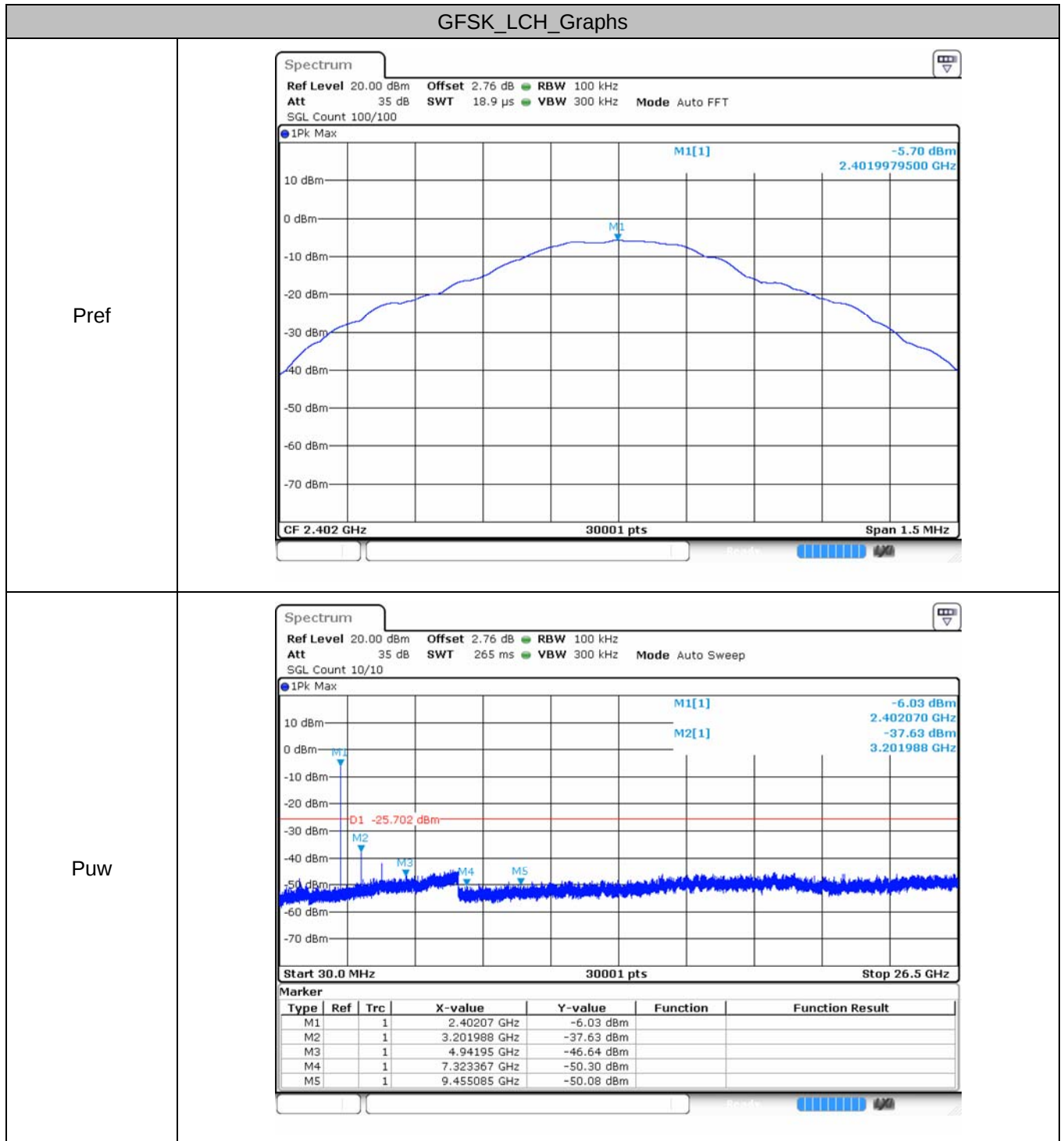


7 RF Conducted Spurious Emissions

7.1 Test Result

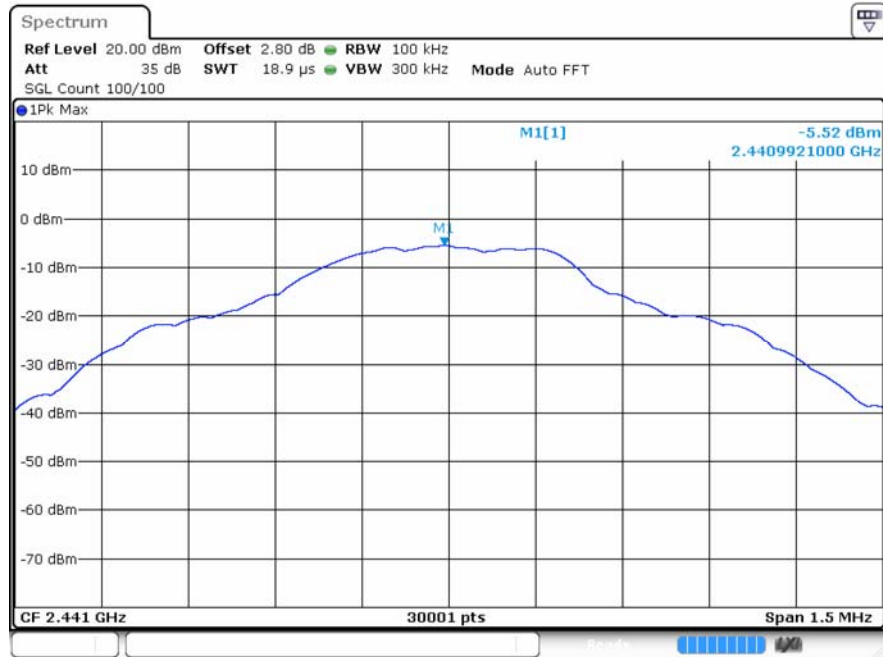
Mode	Channel	Max. Level [dBc]	Limit [dBc]	Verdict
GFSK	LCH	-31.92	-20	Pass
	MCH	-33.4	-20	Pass
	HCH	-34.45	-20	Pass

7.2 Test Graphs

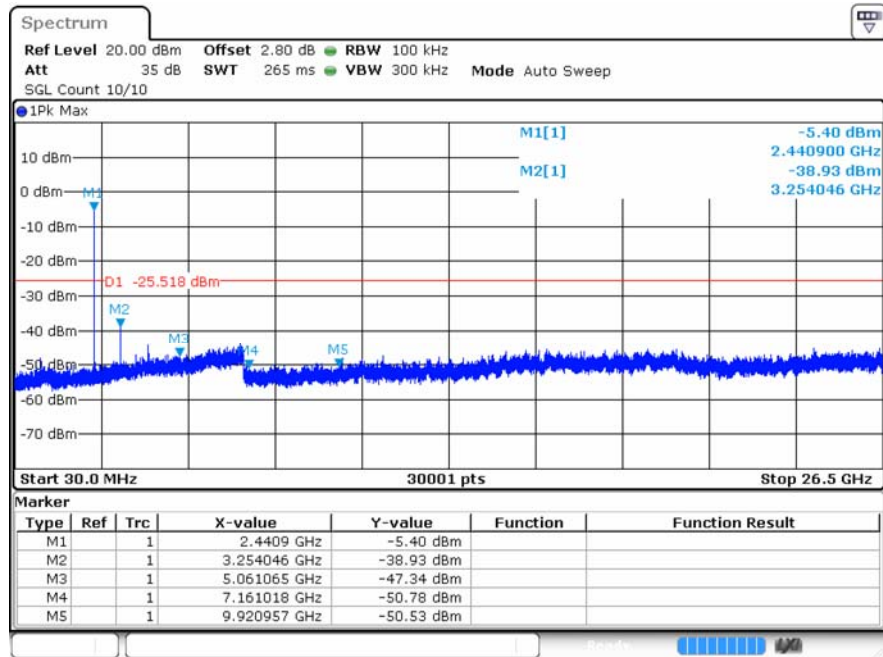


GFSK_MCH_Graphs

Pref

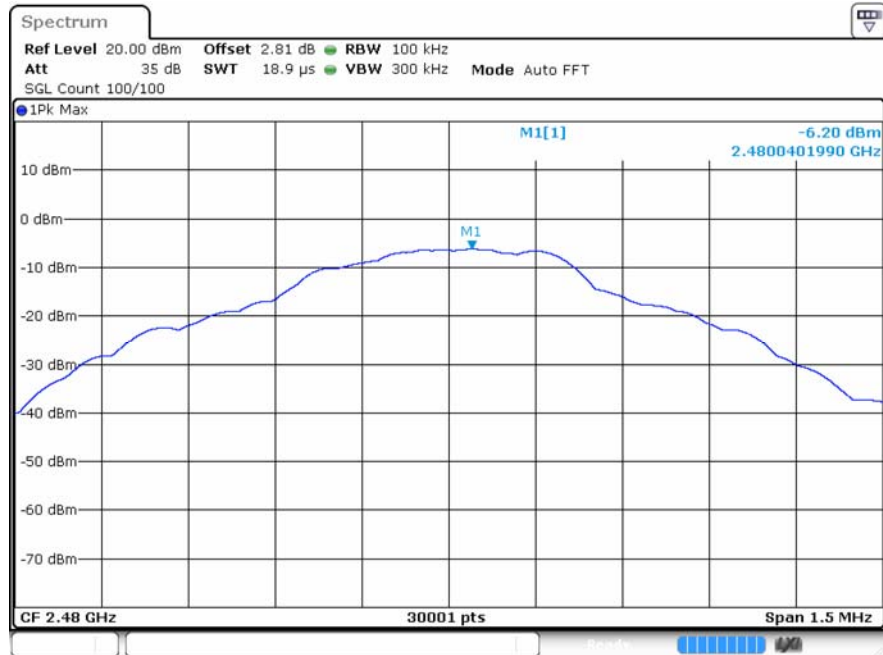


Puw

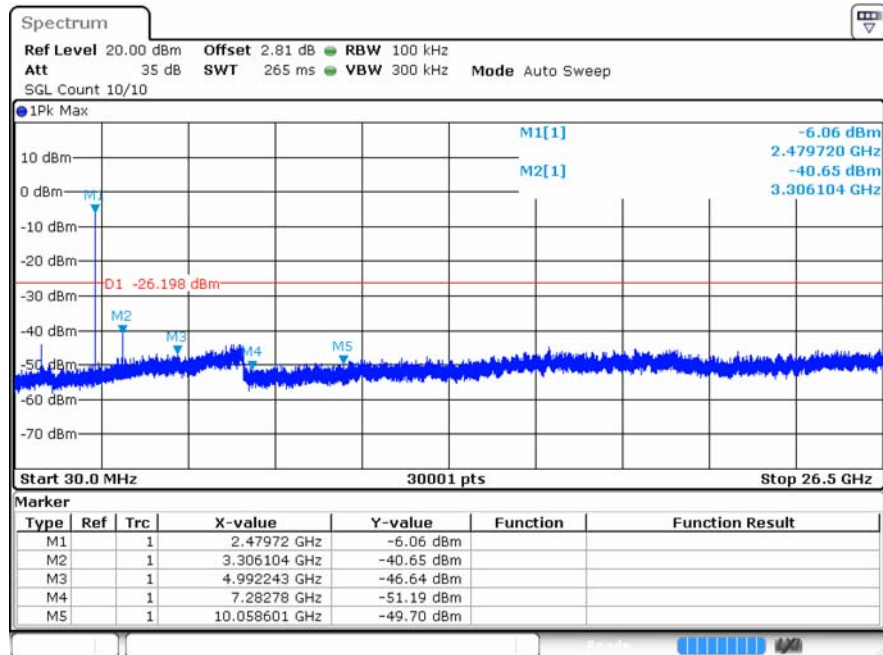


GFSK_HCH_Graphs

Pref



Puw

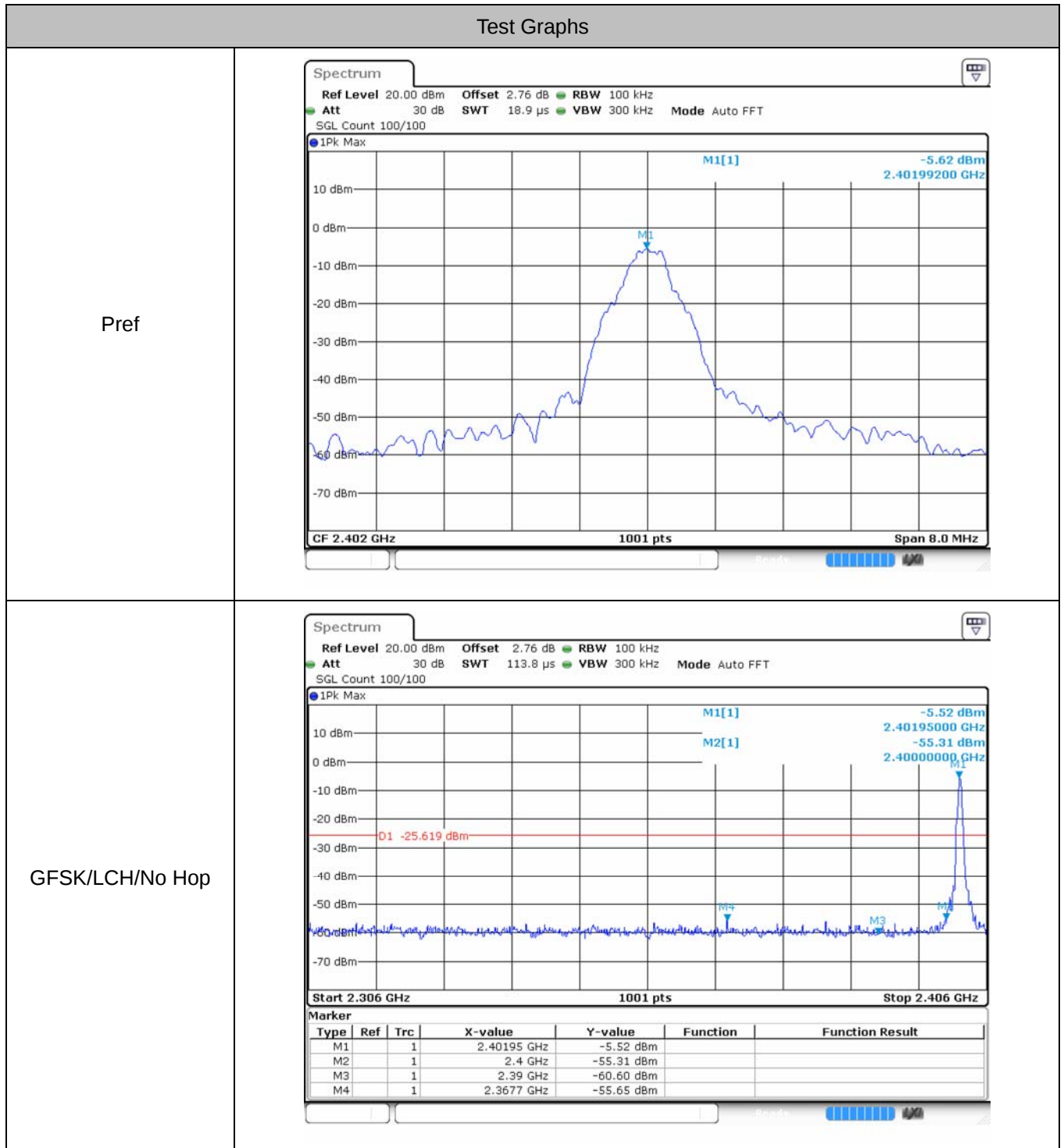


8 Band-edge for RF Conducted Emissions

8.1 Test Result

Mode	Channel	Carrier Frequency [MHz]	Frequency Hopping	Max Spurious Level [dBc]	Limit [dBc]	Verdict
GFSK	LCH	2402	Off	-50.02	-20	Pass
			On	-49.72	-20	Pass
	HCH	2480	Off	-49.67	-20	Pass
			On	-49.49	-20	Pass

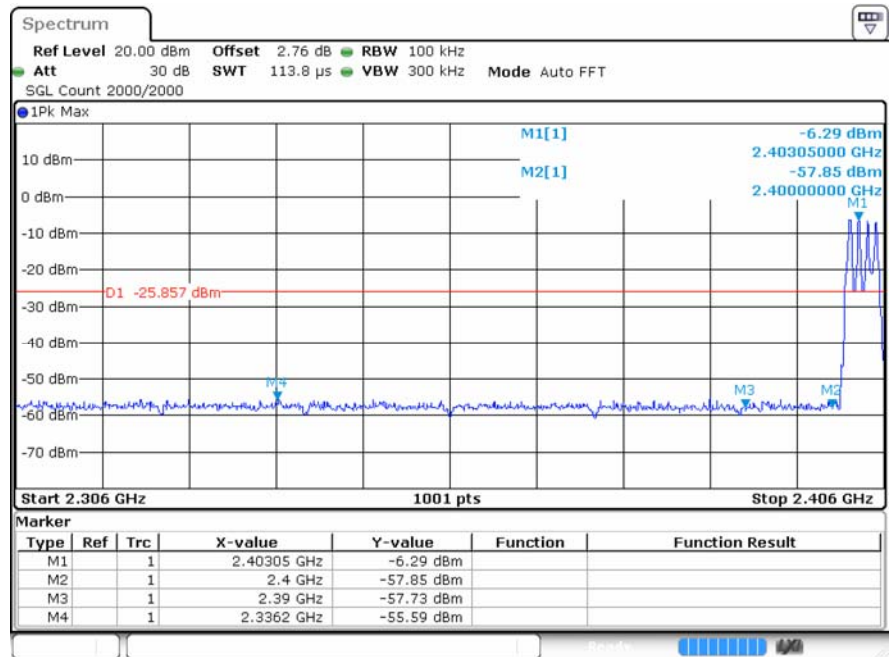
8.2 Test Graphs



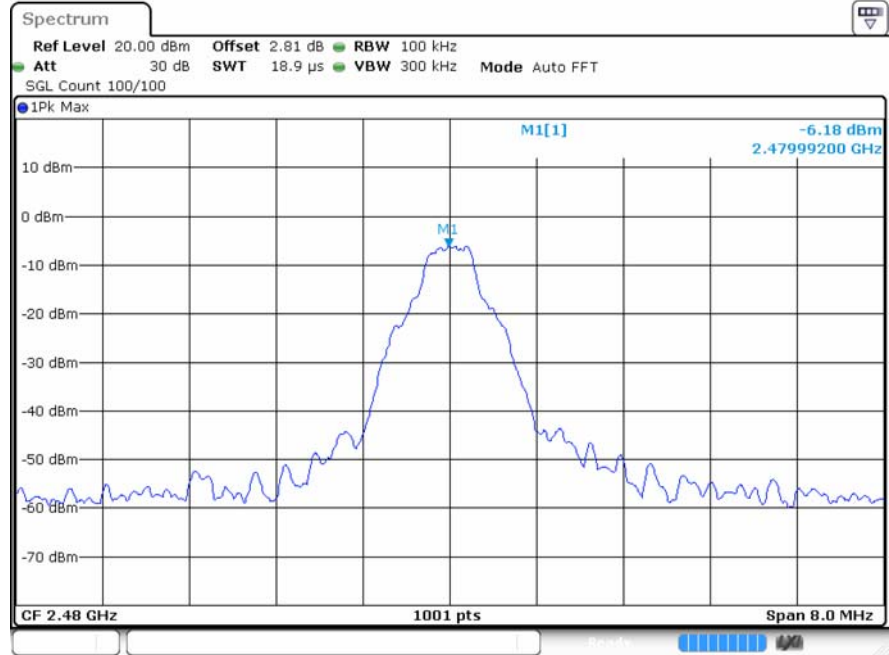
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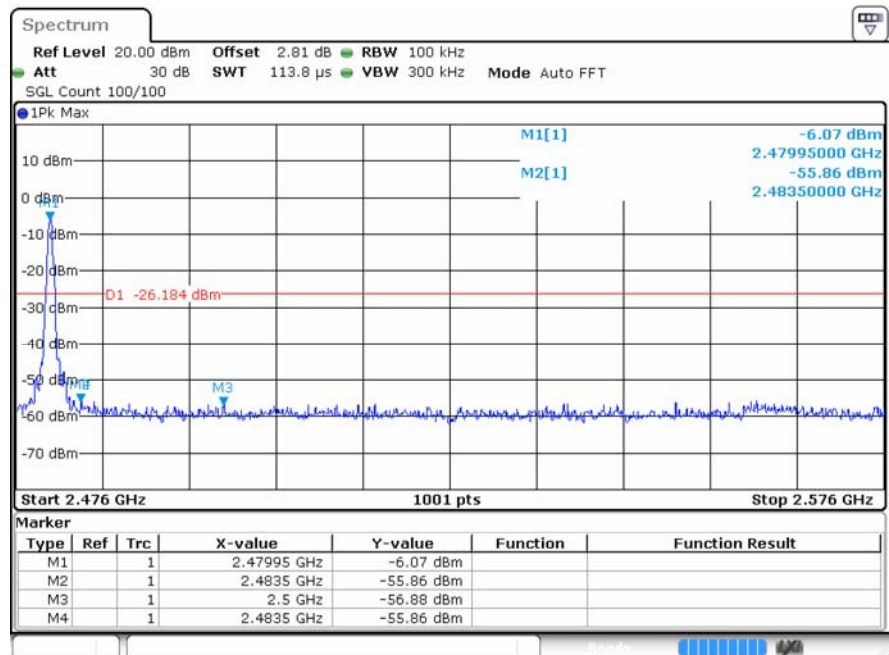
GFSK/LCH/Hop



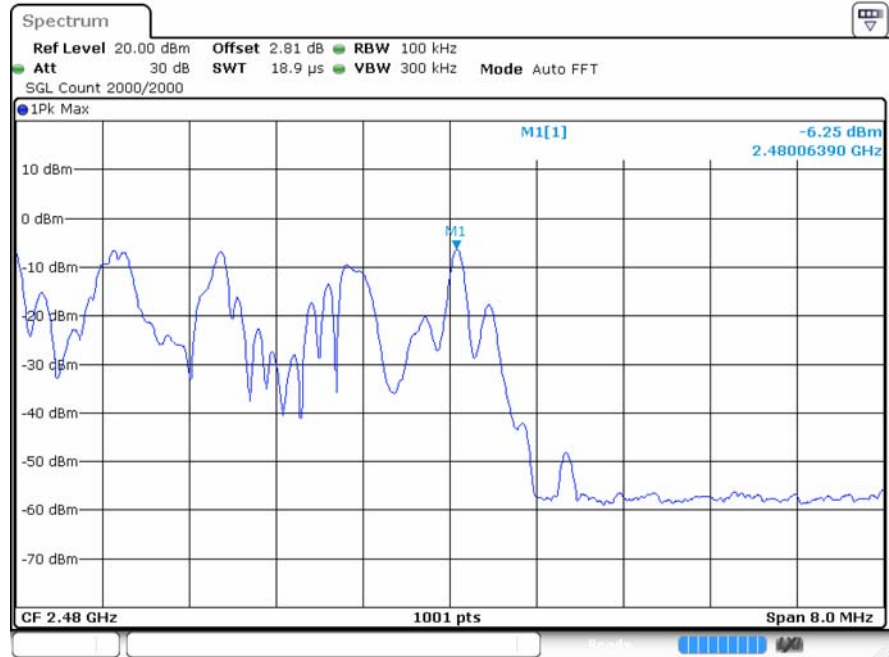
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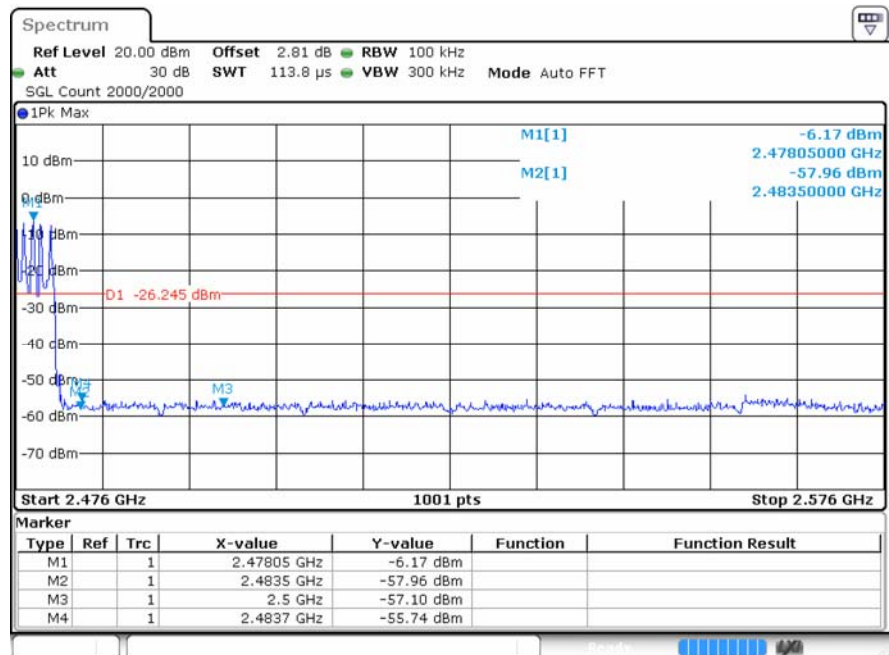
GFSK/HCH/No Hop



Ref.



GFSK/HCH/Hop



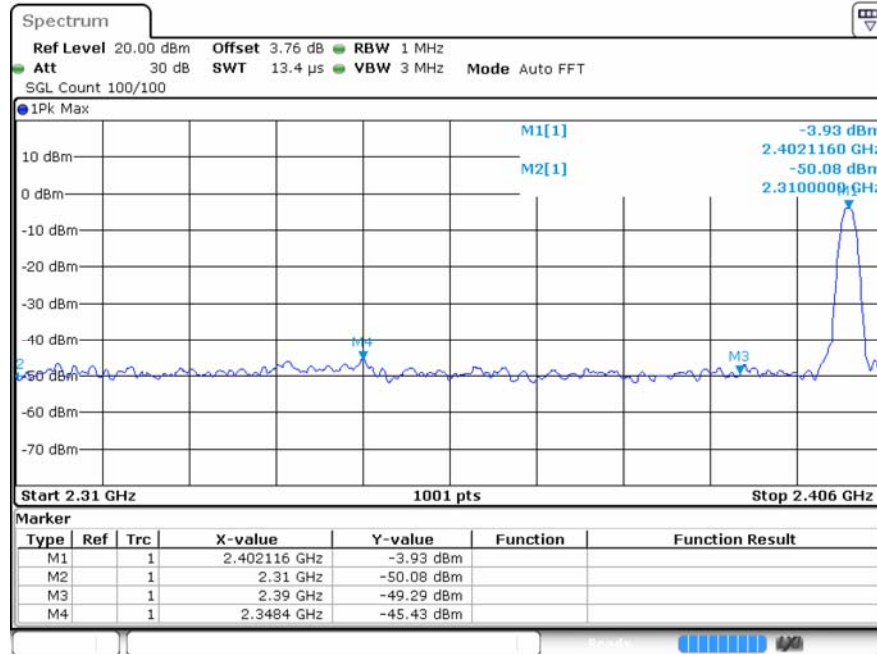
9 Restrict-band band-edge measurements

9.1 Test Result

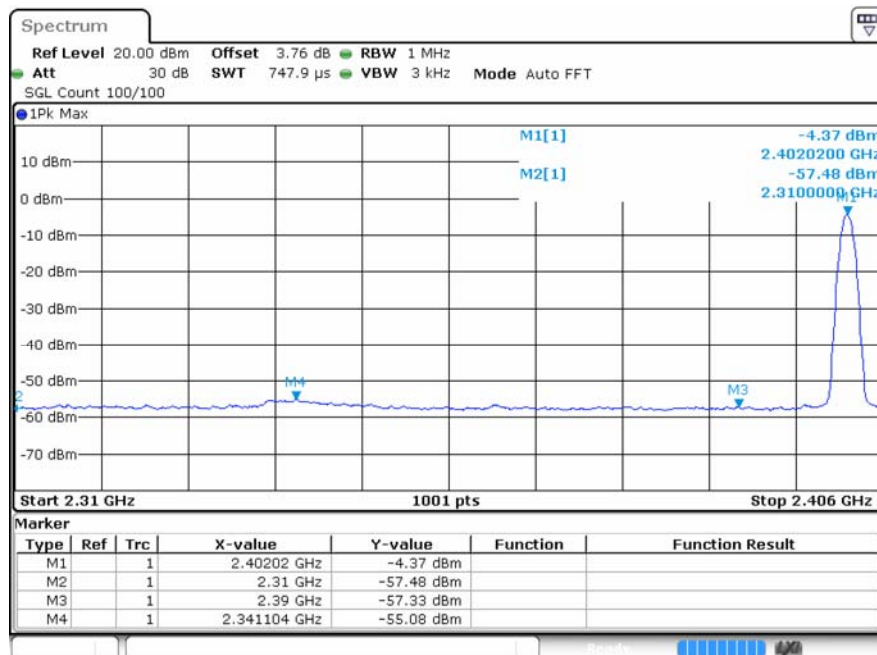
Test Mode	Hopping	Freq.	Power [dBm]	Gain	E [dBuV/m]	Detector	Limit [dBuV/m]	Verdict
GFSK	Off	2310.0	-50.08	2	47.18	PEAK	74	Pass
	Off	2310.0	-57.48	2	39.78	AV	54	Pass
	Off	2348.4	-45.42	2	51.84	PEAK	74	Pass
	Off	2341.104	-55.07	2	42.19	AV	54	Pass
	Off	2390.0	-49.28	2	47.98	PEAK	74	Pass
	Off	2390.0	-57.32	2	39.94	AV	54	Pass
	Off	2483.5	-46.94	2	50.32	PEAK	74	Pass
	Off	2483.5	-55.96	2	41.3	AV	54	Pass
	Off	2490.184	-45.63	2	51.63	PEAK	74	Pass
	Off	2483.776	-55.49	2	41.77	AV	54	Pass
	Off	2500.0	-48.16	2	49.1	PEAK	74	Pass
	Off	2500.0	-56.94	2	40.32	AV	54	Pass

9.2 Test Graphs

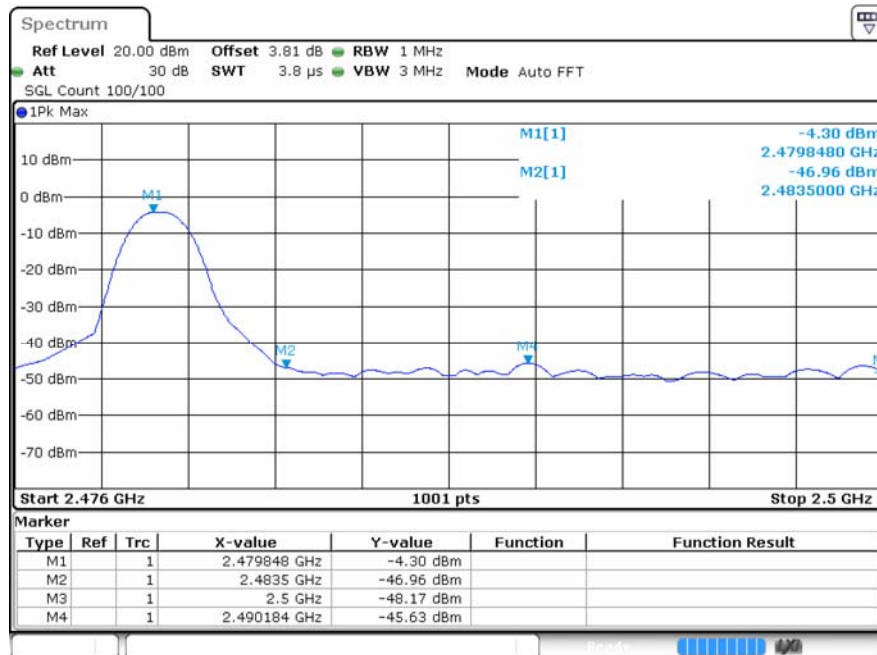
Restrict-band band-edge measurements_Hopping Off_ GFSK_PEAK (Low Channel)



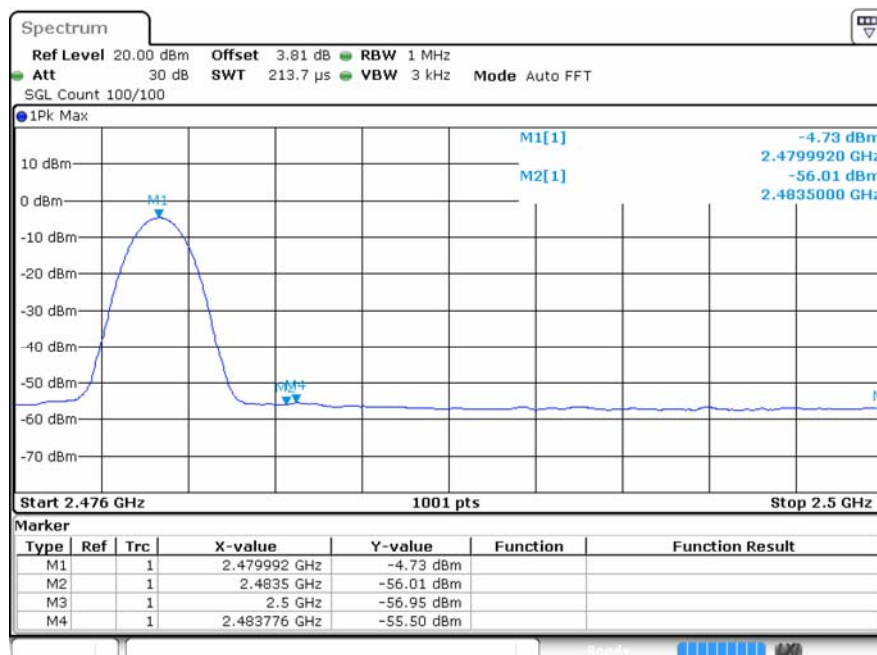
Restrict-band band-edge measurements_Hopping Off_ GFSK_Average (Low Channel)



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



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



---The End---