

## Appendix A

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

Product Name: Smart watch

Trade Mark: N/A

Test Model: FT32

Environmental Conditions

Temperature:	25.5°C
Relative Humidity:	55.0%
ATM Pressure:	101Kpa
Test Engineer:	Simba Huang
Supervised by:	Seal Chen

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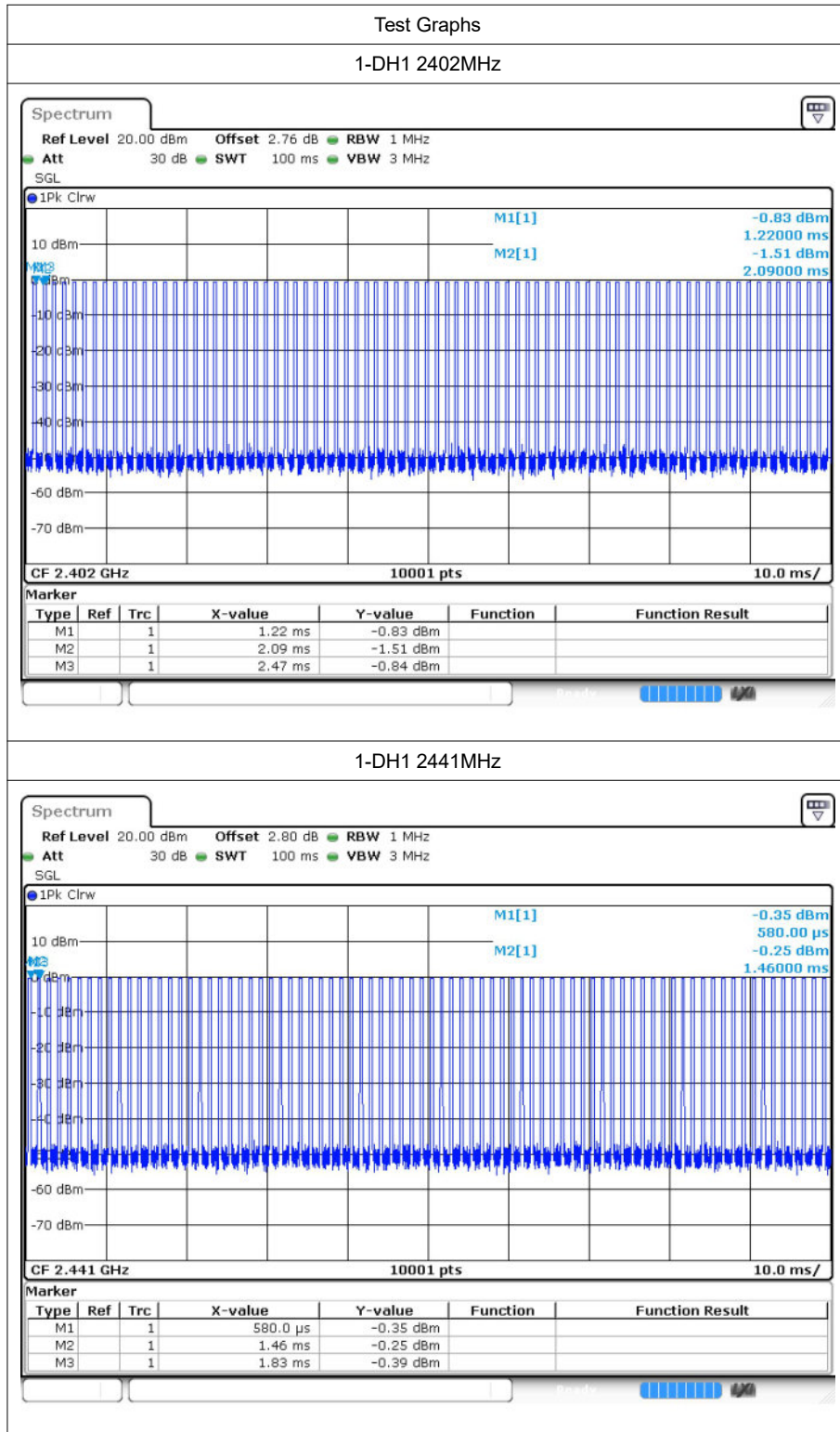
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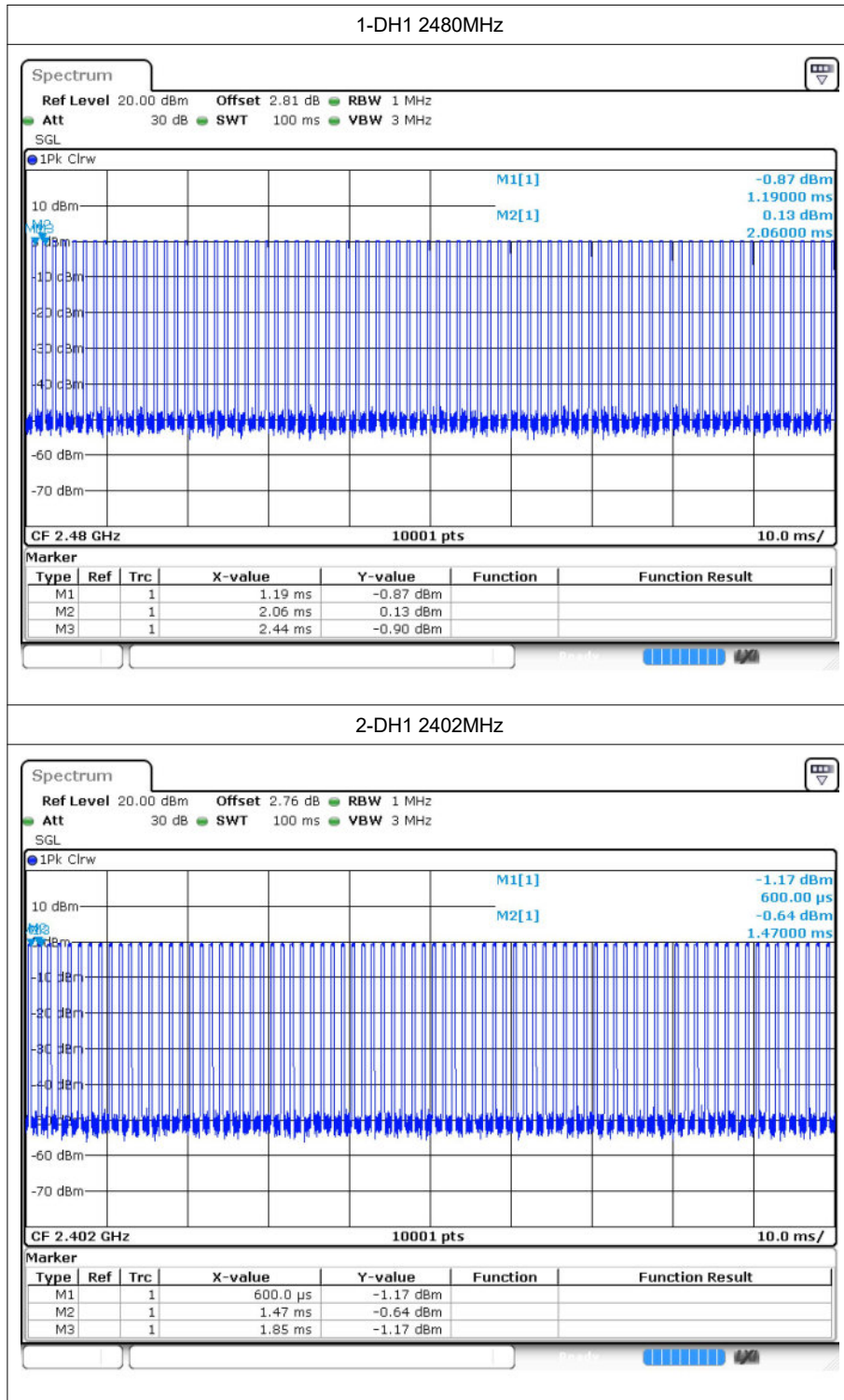
# 1 Duty Cycle

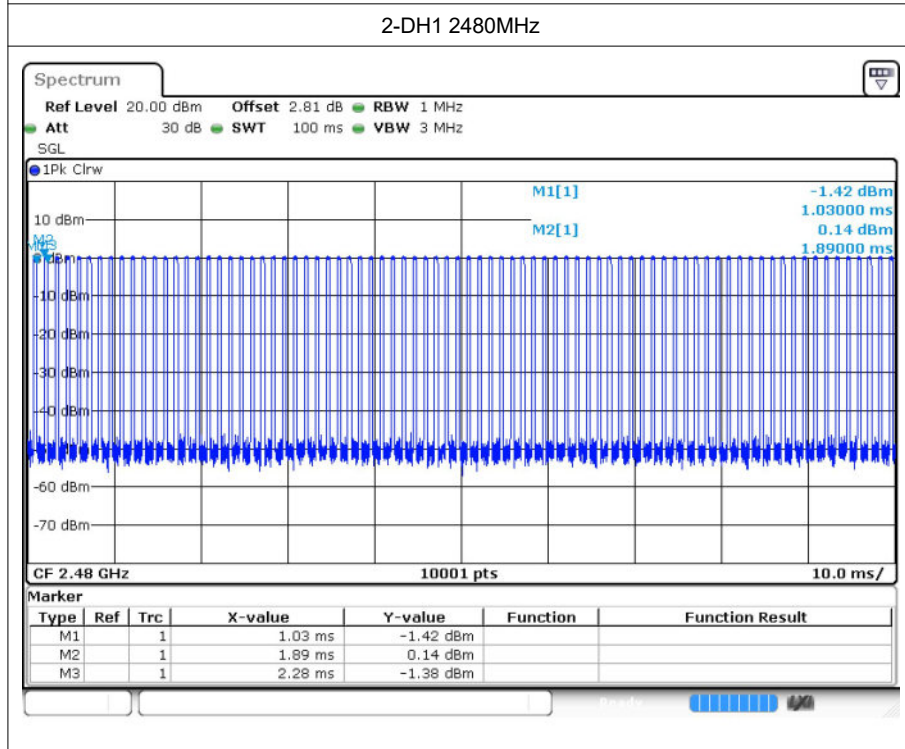
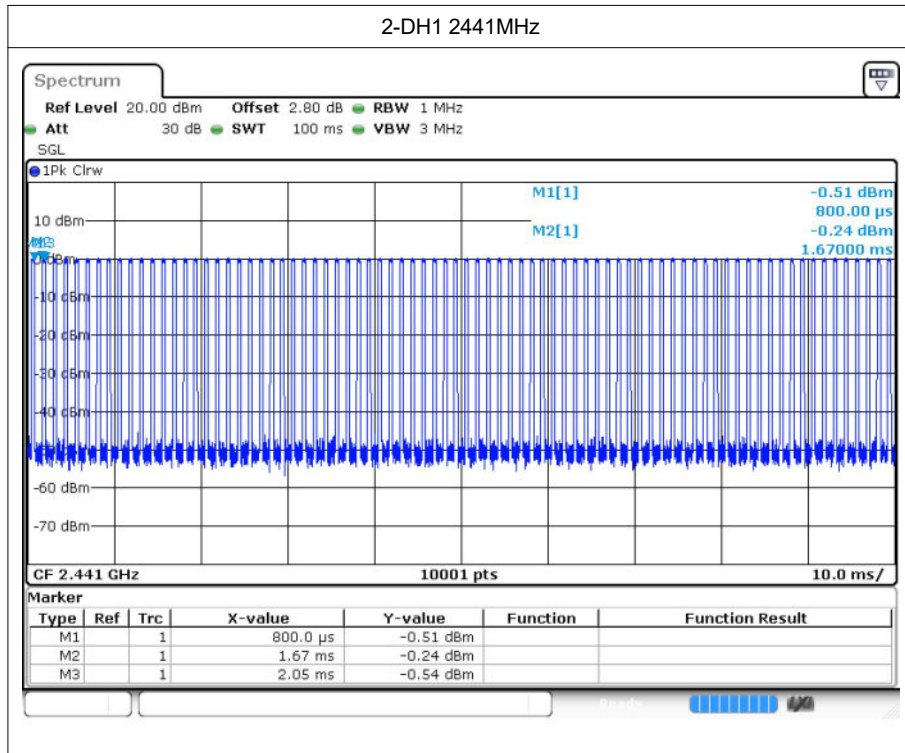
## 1.1 Test Result

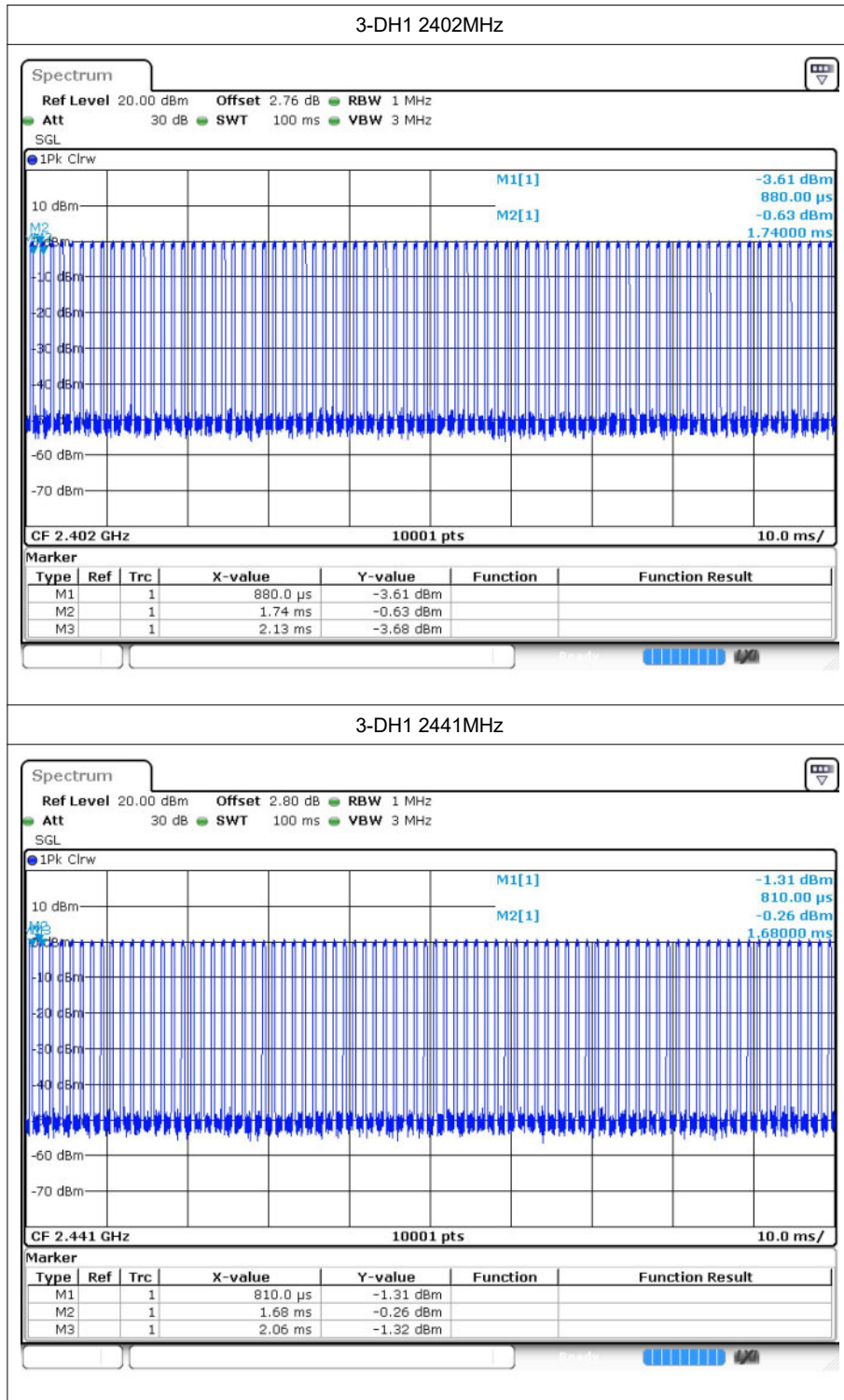
Mode	Frequency (MHz)	Duty Cycle (%)	Correction Factor	1/T (kHz)
1-DH1	2402	31.2	5.06	2.63
1-DH1	2441	30.4	5.17	2.7
1-DH1	2480	31.2	5.06	2.63
2-DH1	2402	31.33	5.04	2.63
2-DH1	2441	31.2	5.06	2.63
2-DH1	2480	32	4.95	2.56
3-DH1	2402	32	4.95	2.56
3-DH1	2441	31.2	5.06	2.63
3-DH1	2480	32	4.95	2.56

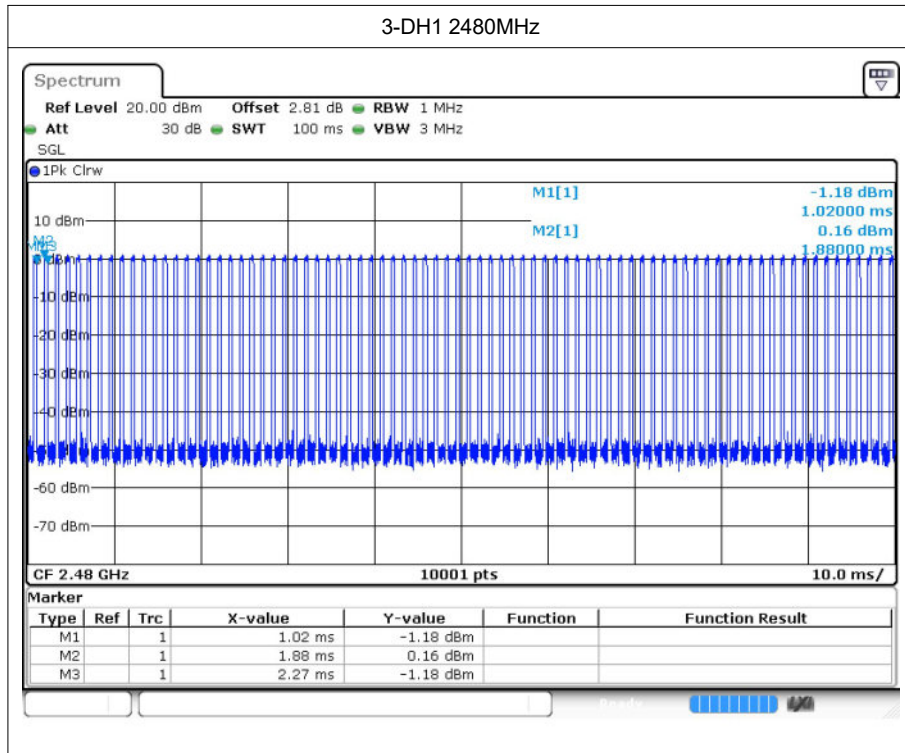
## 1.2 Test Graphs











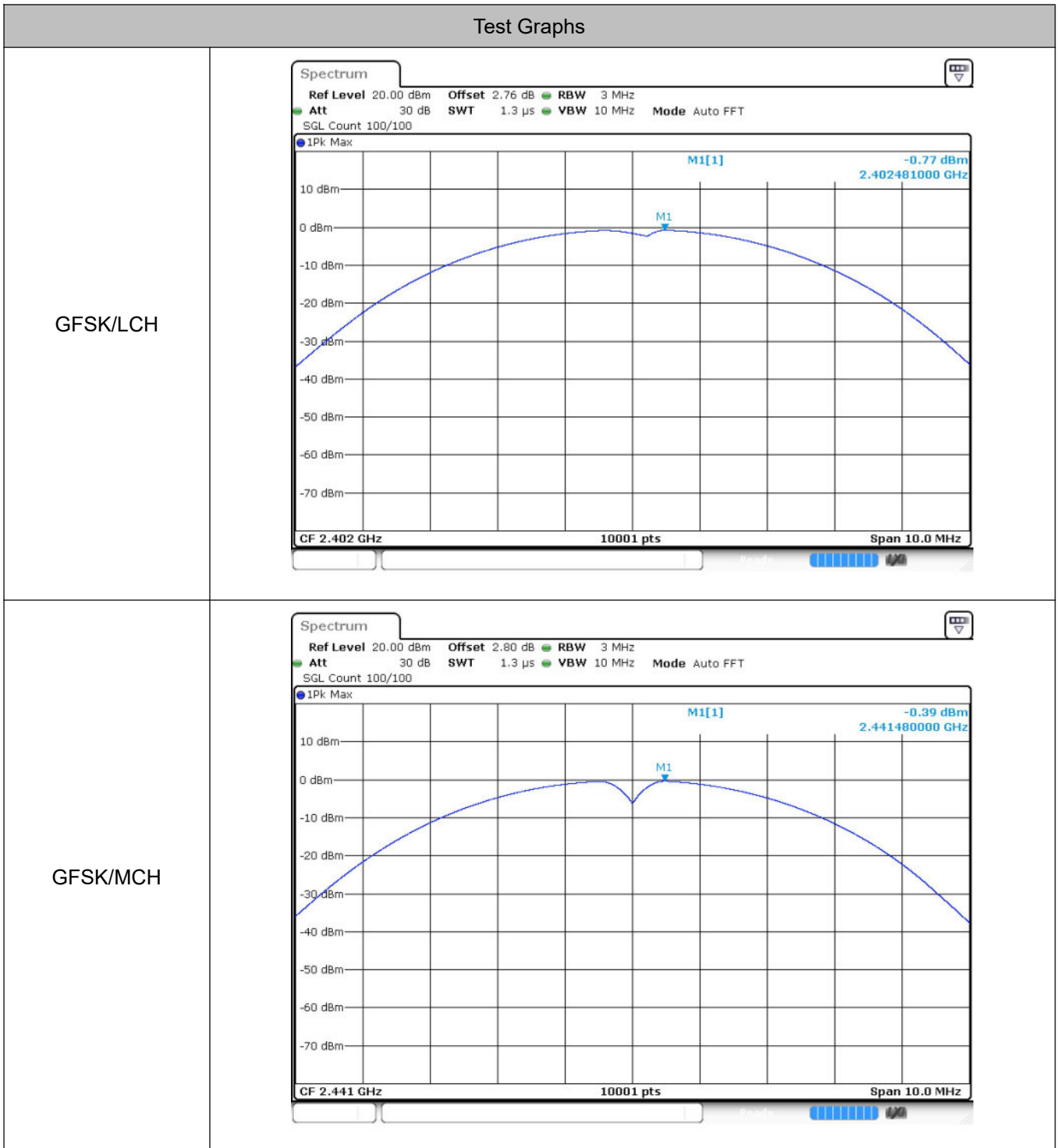


## 2 Maximum Conducted Peak Output Power

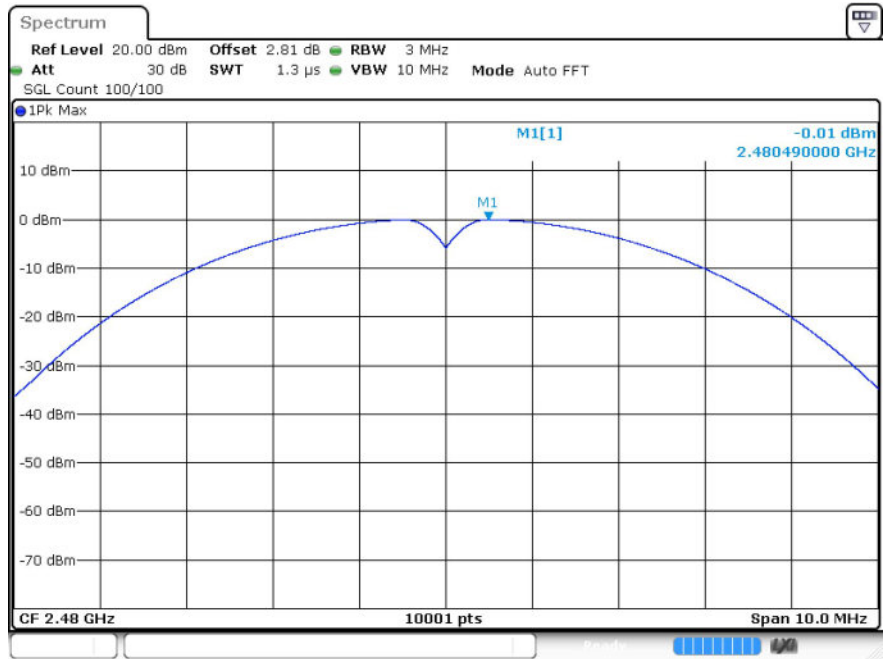
### 2.1 Test Result

Mode	Channel.	Maximum Peak Output Power [dBm]	Limit [dBm]	Verdict
GFSK	LCH	-0.77	21	Pass
	MCH	-0.39	21	Pass
	HCH	-0.01	21	Pass
$\pi/4$ DQPSK	LCH	-0.47	21	Pass
	MCH	0.02	21	Pass
	HCH	0.61	21	Pass
8DPSK	LCH	-0.4	21	Pass
	MCH	-0.07	21	Pass
	HCH	0.52	21	Pass

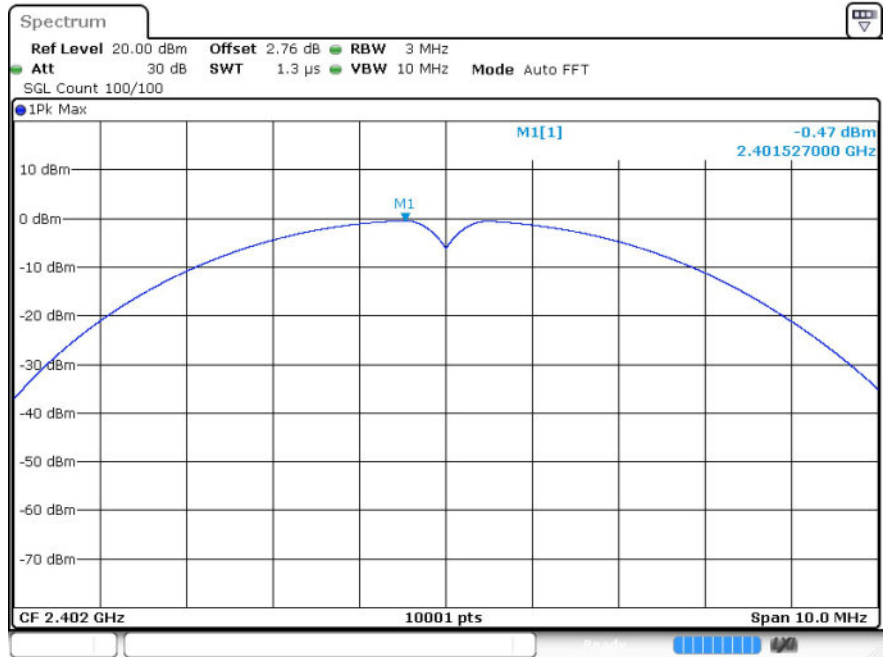
## 2.2 Test Graphs

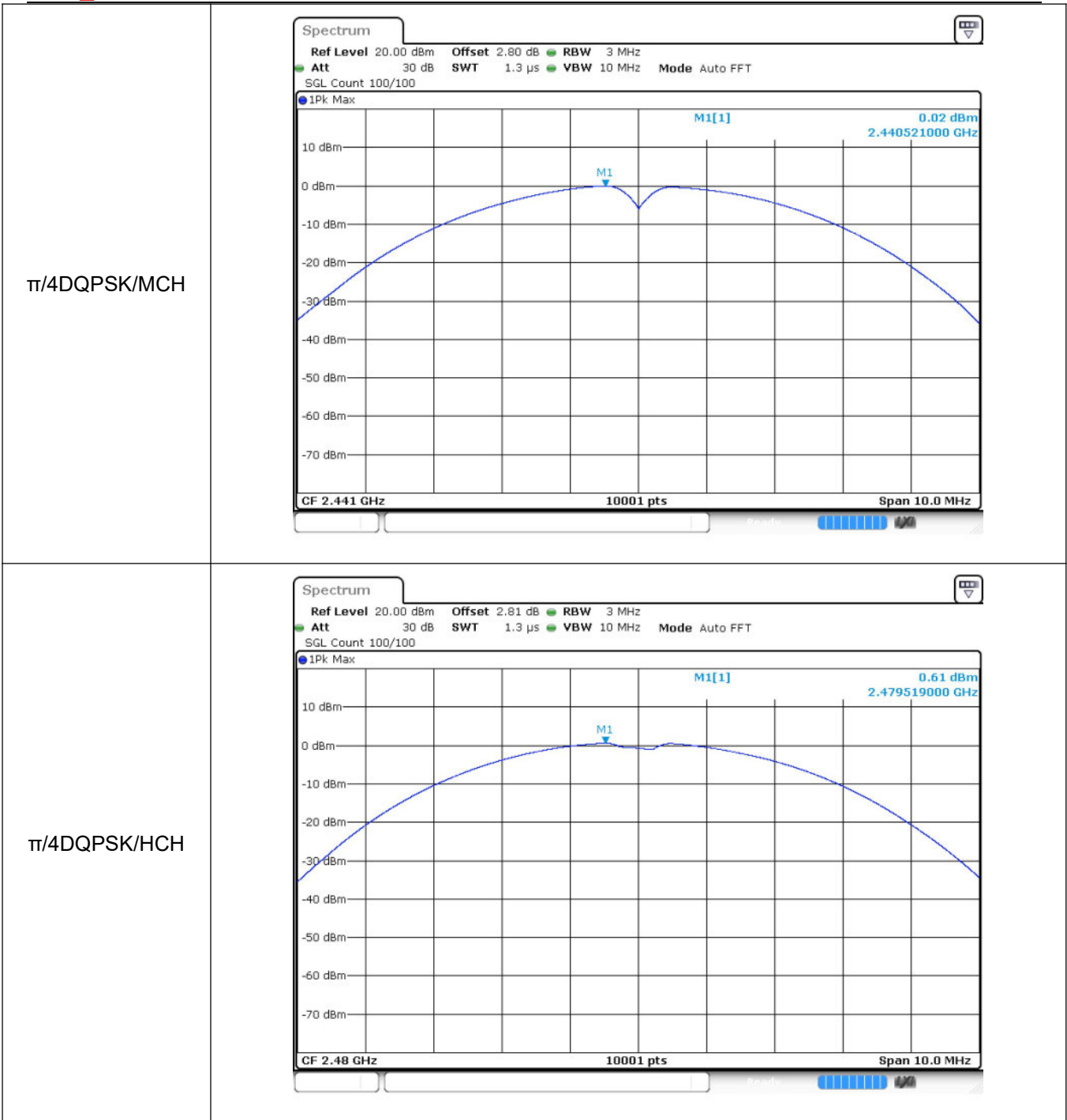


GFSK/HCH



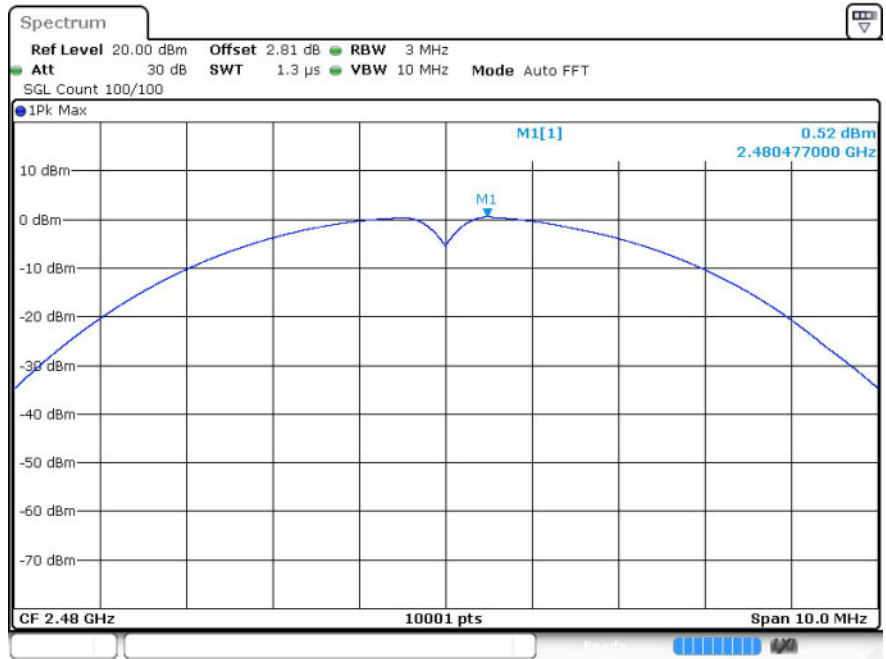
$\pi/4$ DQPSK/LCH







8DPSK/HCH

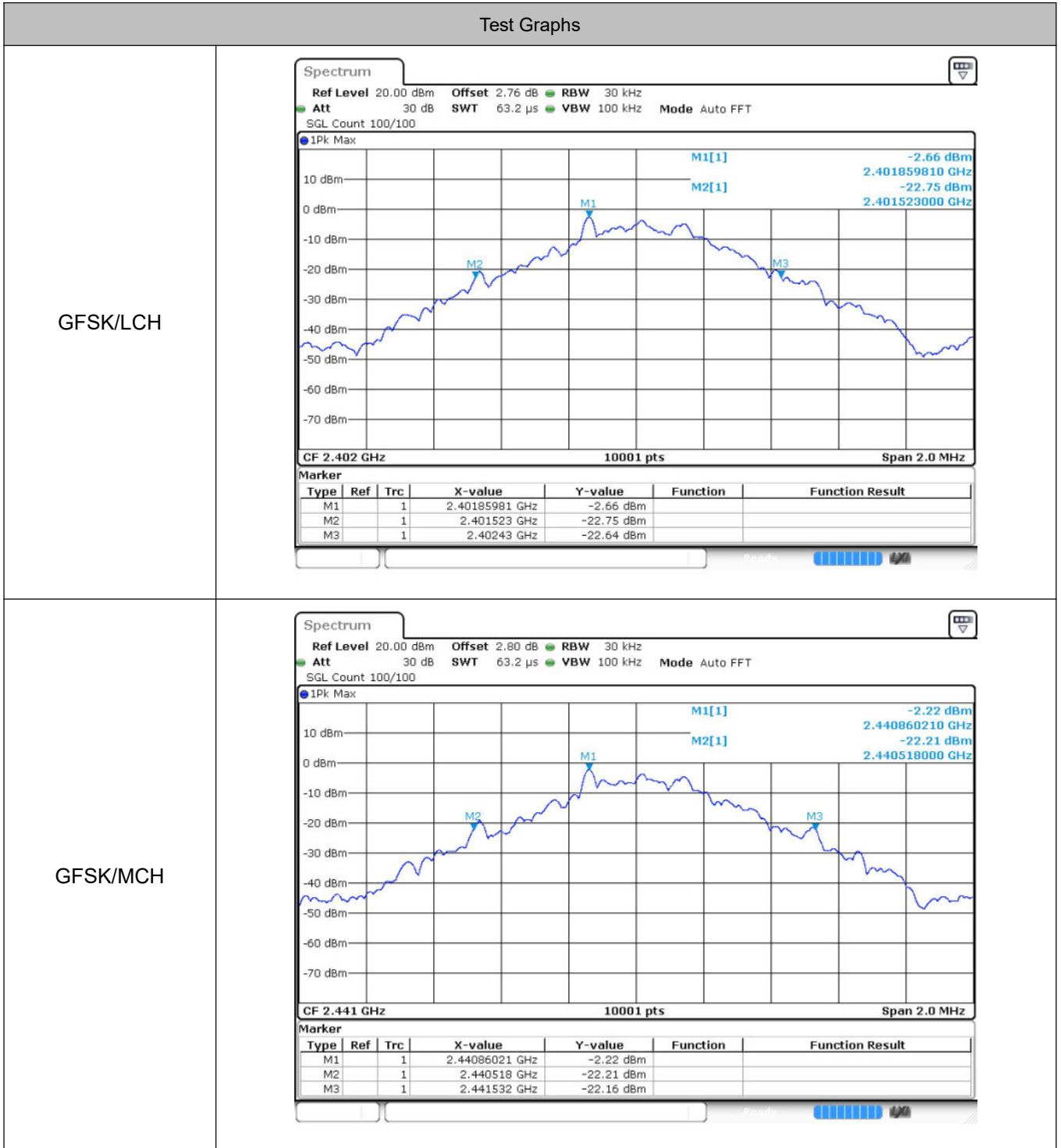


### 3 20dB Bandwidth

#### 3.1 Test Result

Mode	Channel.	20dB Bandwidth [MHz]	Limit [MHz]	Verdict
GFSK	LCH	0.907	Not Specified	Pass
	MCH	1.014	Not Specified	Pass
	HCH	1.032	Not Specified	Pass
$\pi/4$ DQPSK	LCH	1.273	Not Specified	Pass
	MCH	1.332	Not Specified	Pass
	HCH	1.279	Not Specified	Pass
8DPSK	LCH	1.207	Not Specified	Pass
	MCH	1.201	Not Specified	Pass
	HCH	1.276	Not Specified	Pass

### 3.2 Test Graphs

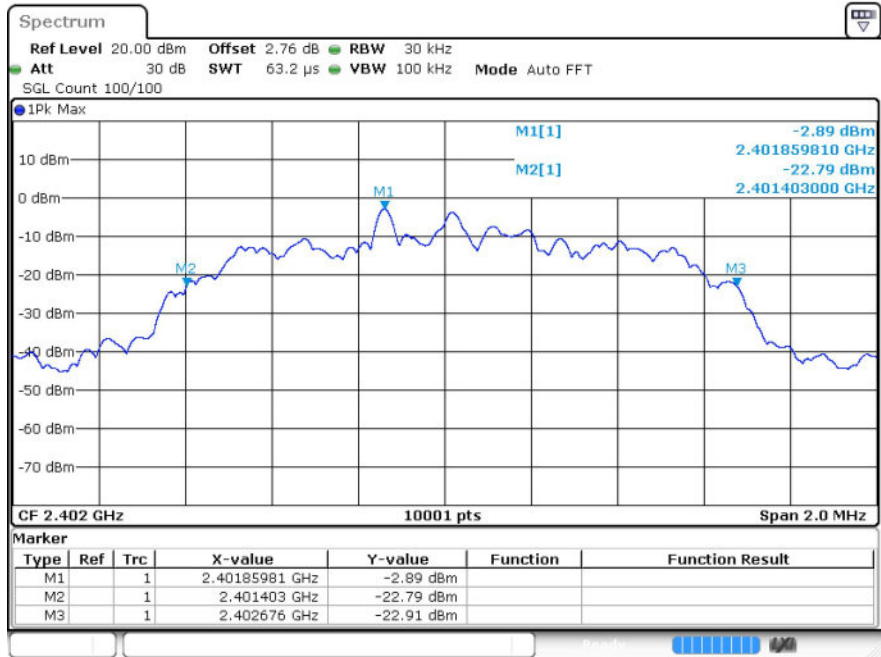




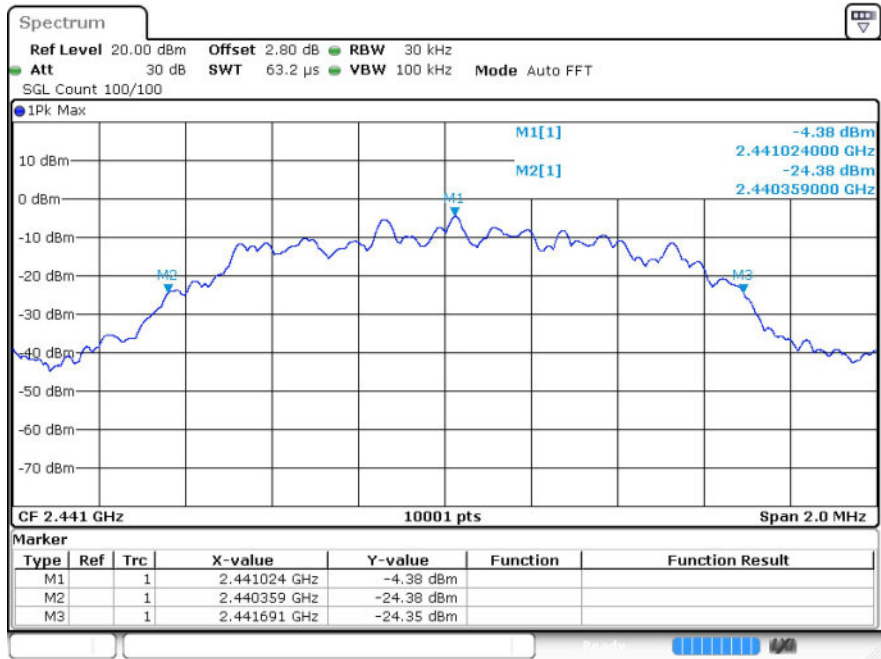
GFSK/HCH



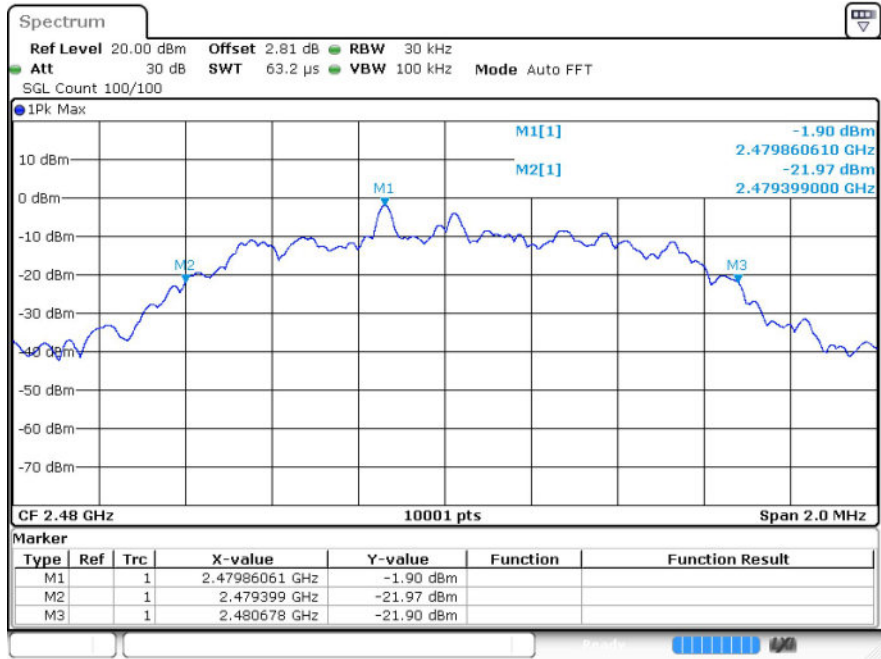
$\pi/4$ DQPSK/LCH



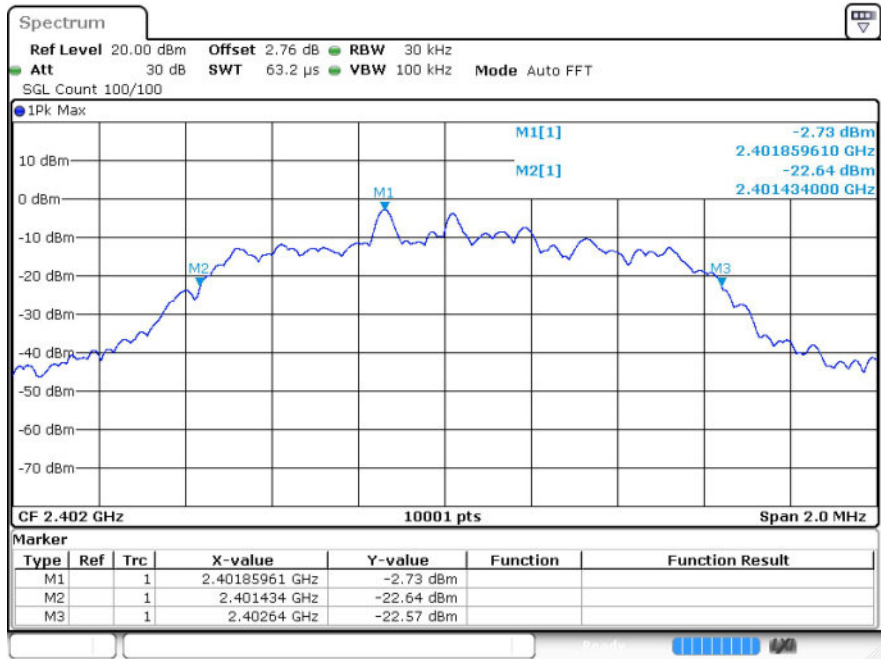
$\pi/4$ DQPSK/MCH



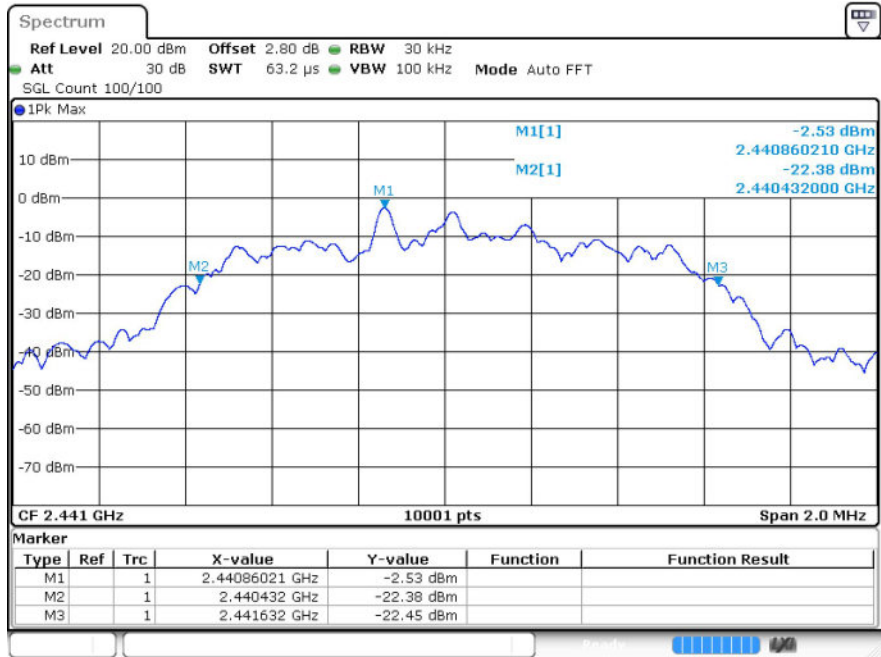
$\pi/4$ DQPSK/HCH



8DPSK/LCH

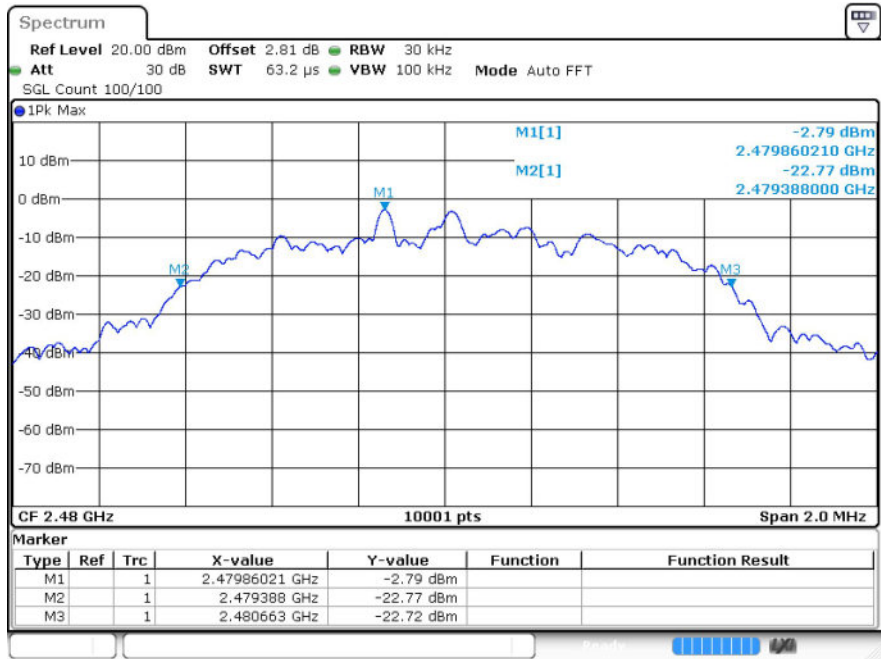


8DPSK/MCH





8DPSK/HCH

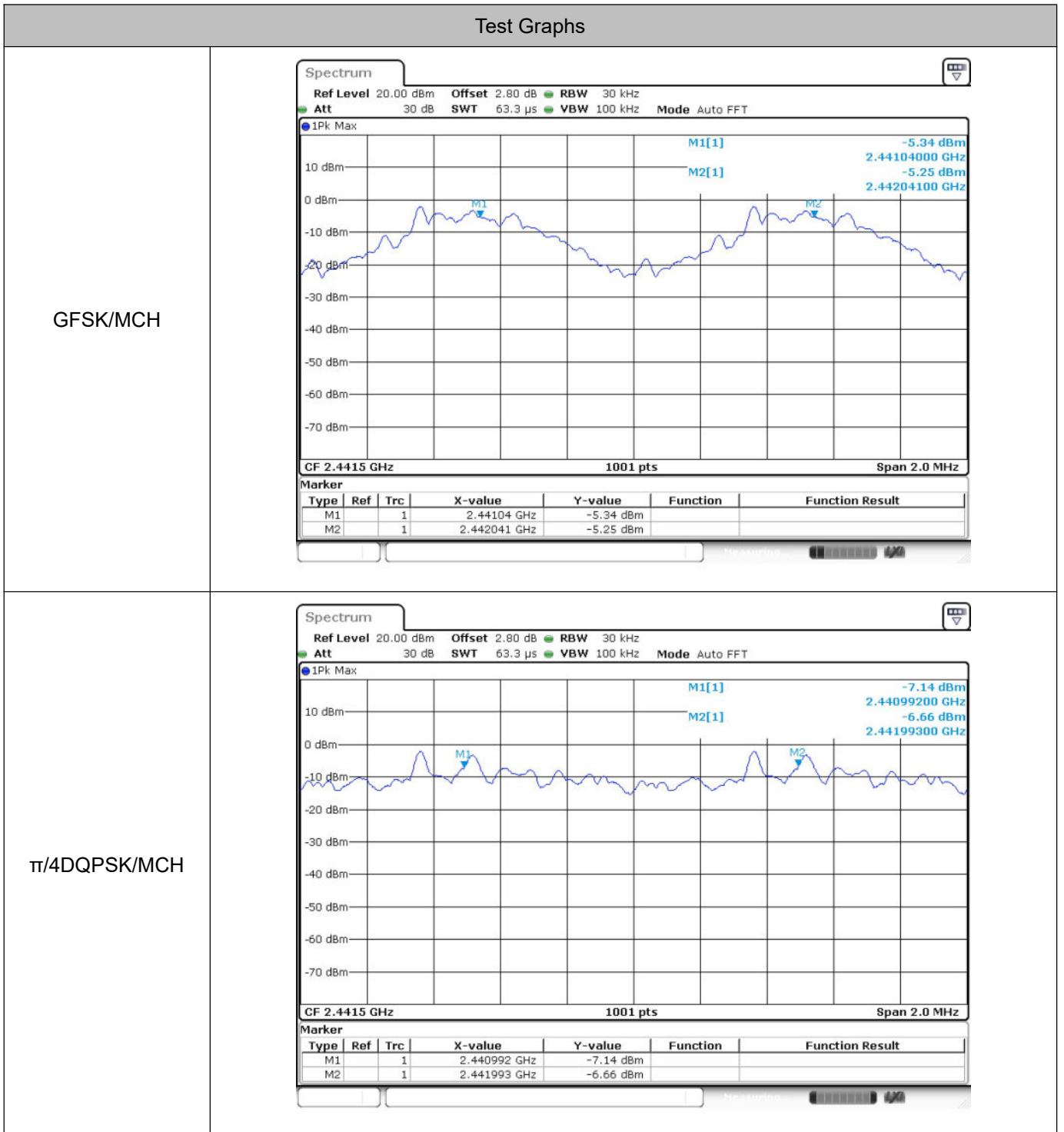


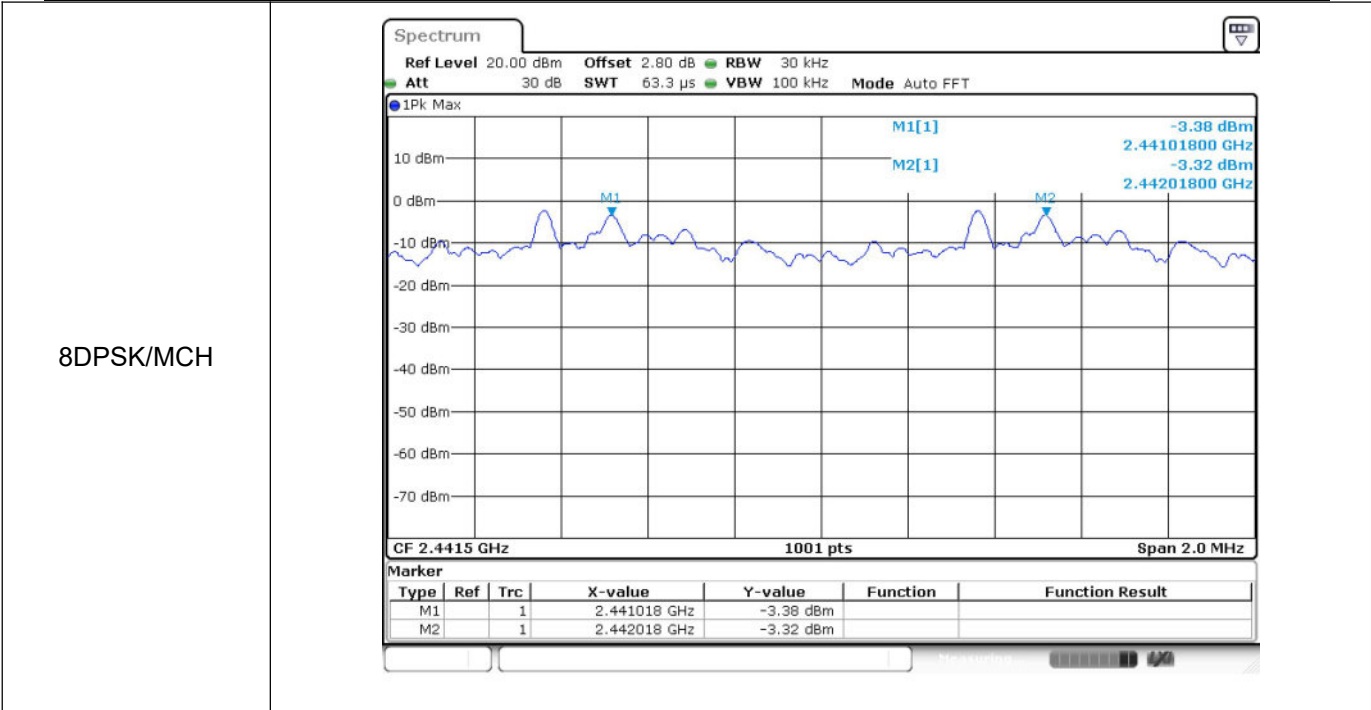
## 4 Carrier Frequency Separation

### 4.1 Test Result

Mode	Channel.	Carrier Frequency Separation [MHz]	Limit [MHz]	Verdict
GFSK	MCH	1.001	0.676	Pass
$\pi/4$ DQPSK	MCH	1.001	0.888	Pass
8DPSK	MCH	1	0.801	Pass

## 4.2 Test Graphs





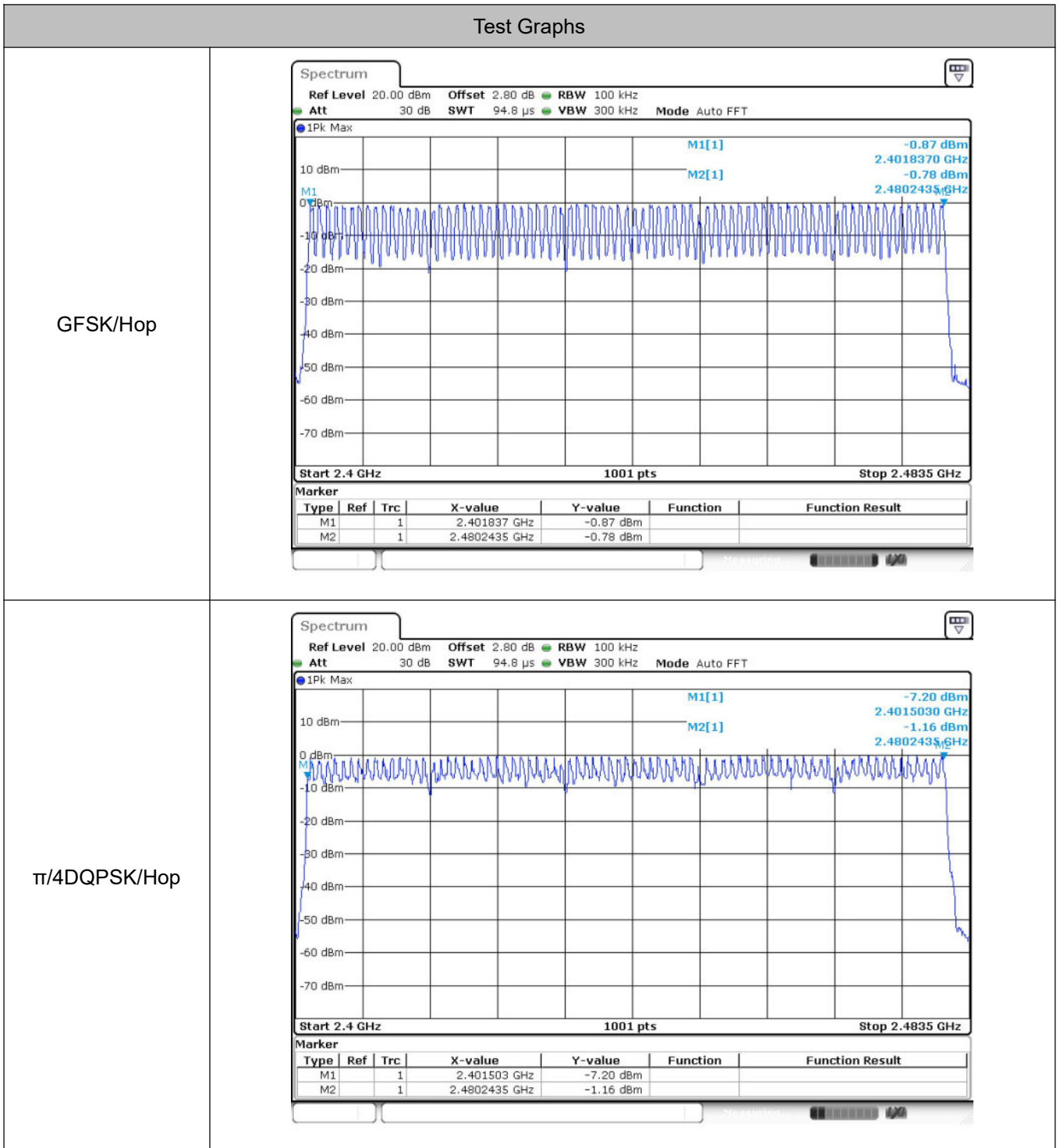
## 5 Hopping Channel Number

### 5.1 Test Result

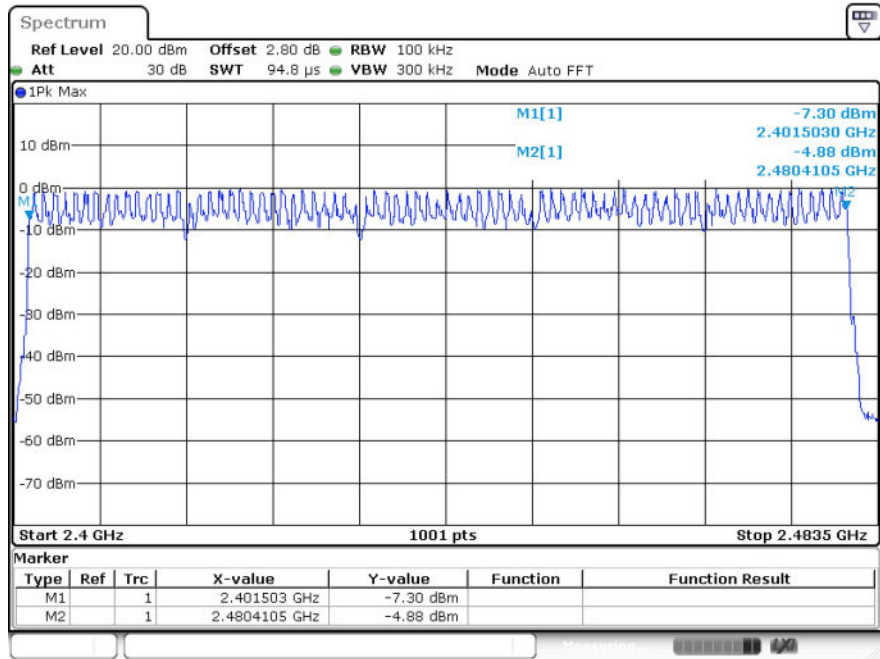
Mode	Channel.	Number of Hopping Channel [N]	Limit [N]	Verdict
GFSK	Hop	79	$\geq 15$	PASS
$\pi/4$ DQPSK	Hop	79	$\geq 15$	PASS
8DPSK	Hop	79	$\geq 15$	PASS



## 5.2 Test Graphs



8DPSK/Hop

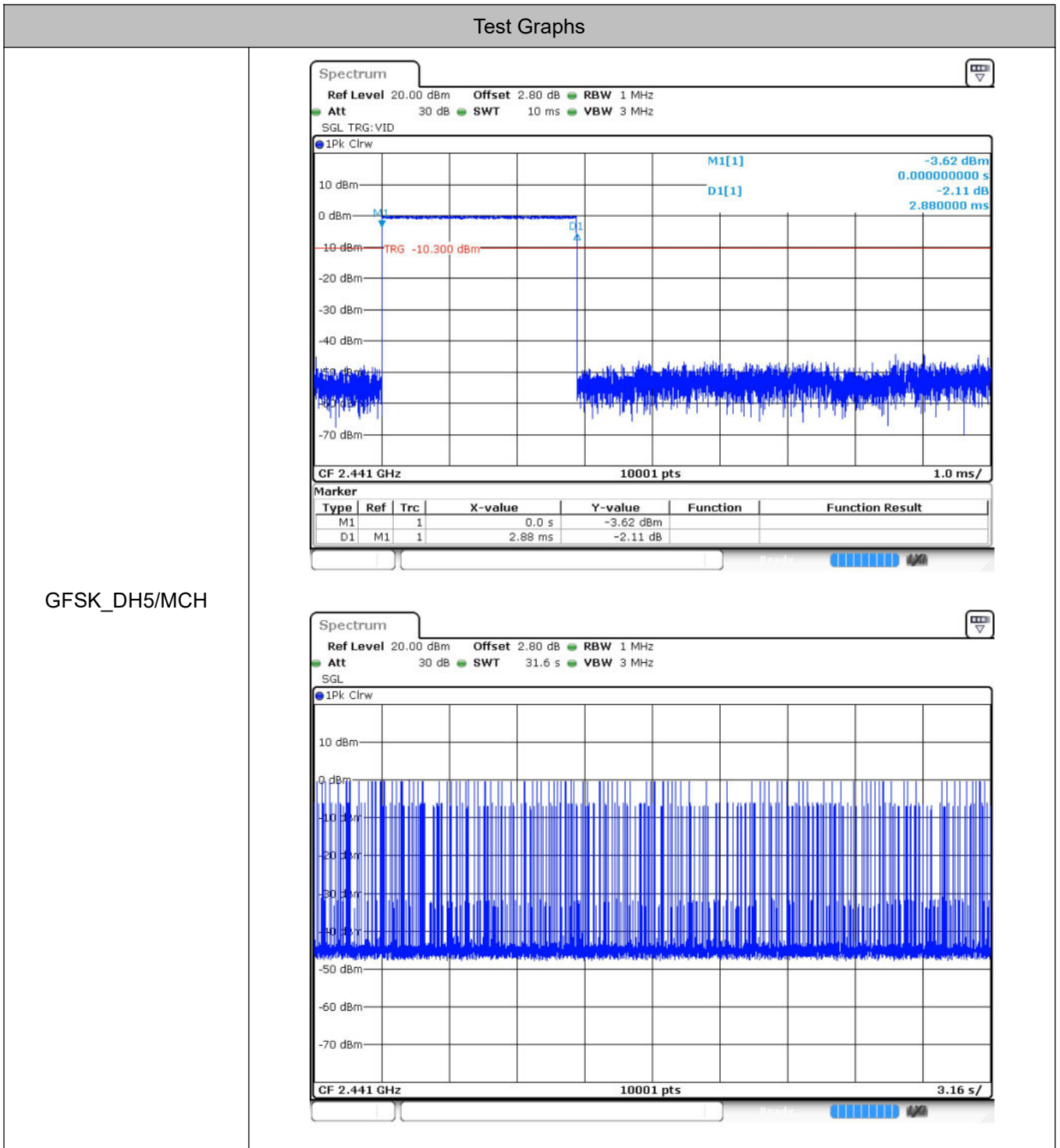


## 6 Dwell Time

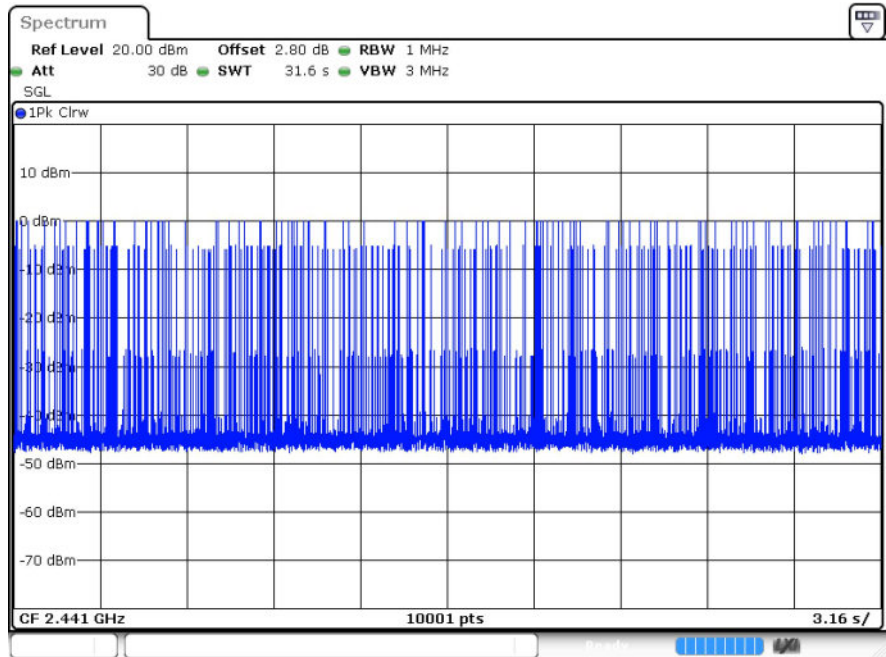
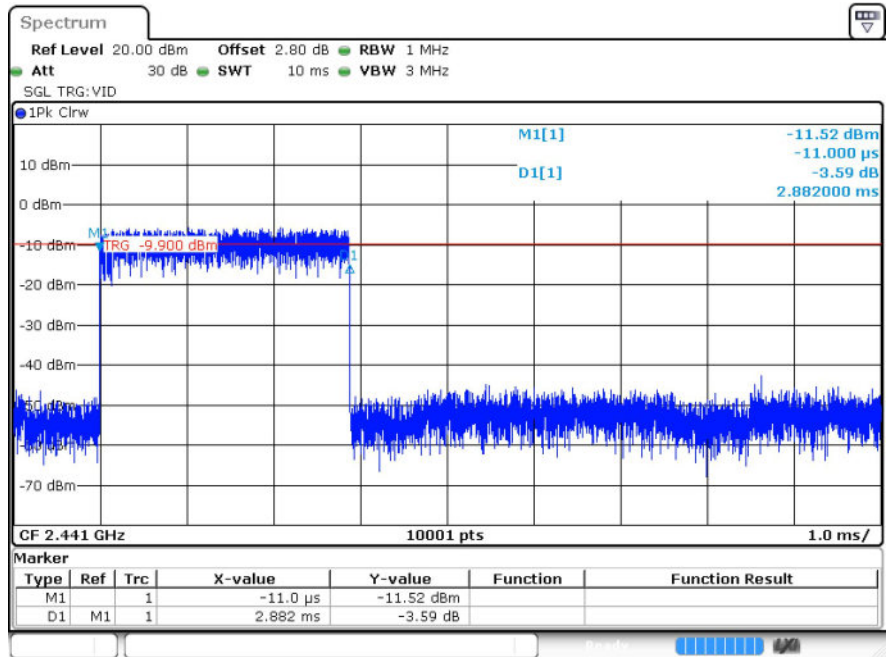
### 6.1 Test Result

Mode	Packet	Channel	Burst Width [ms/hop/ch]	Total Hops[hop*ch]	Dwell Time[ms]	Limit [s]	Verdict
GFSK	DH5	MCH	2.88	113	325.44	0.4	Pass
$\pi/4$ DQPSK	2DH5	MCH	2.882	106	305.492	0.4	Pass
8DPSK	3DH5	MCH	2.887	100	288.7	0.4	Pass

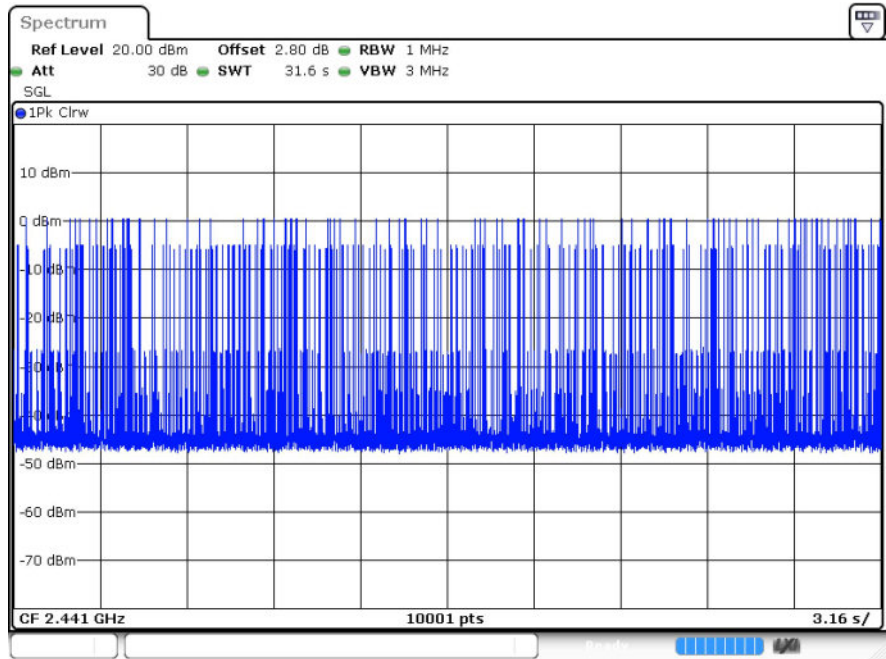
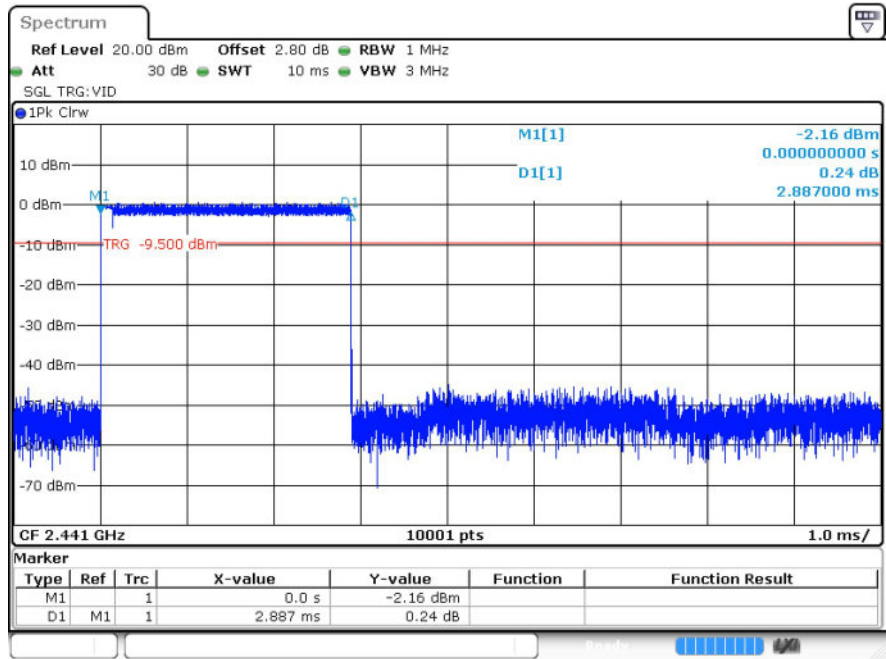
## 6.2 Test Graphs



$\pi/4$ DQPSK  
\_2DH5/MCH



8DPSK\_3DH5/MCH

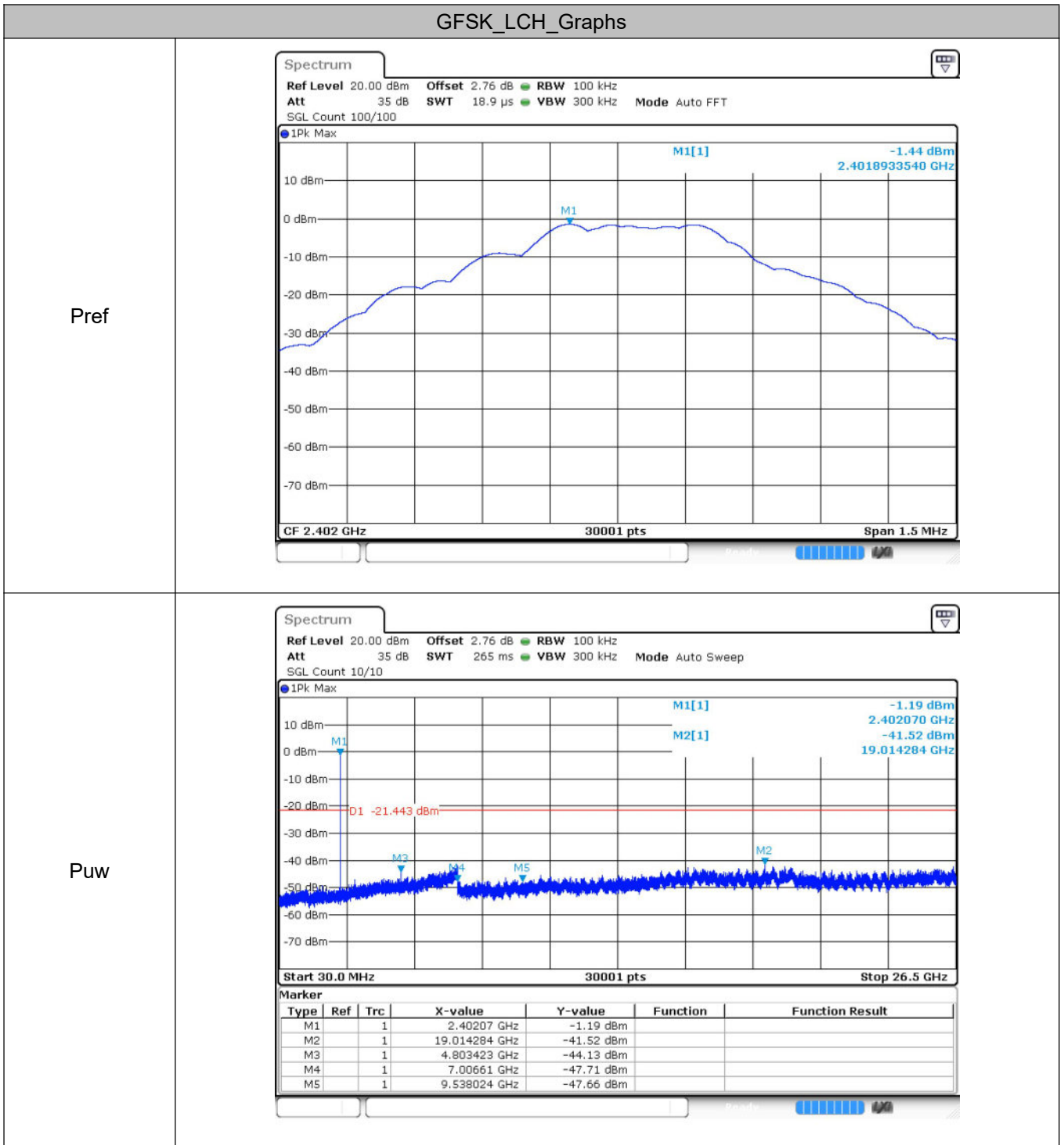


## 7 RF Conducted Spurious Emissions

### 7.1 Test Result

Mode	Channel	Max. Level [dBc]	Limit [dBc]	Verdict
GFSK	LCH	-40.08	-20	Pass
	MCH	-41.09	-20	Pass
	HCH	-39.18	-20	Pass
$\pi/4$ DQPSK	LCH	-40.94	-20	Pass
	MCH	-37.68	-20	Pass
	HCH	-40.79	-20	Pass
8DPSK	LCH	-40.8	-20	Pass
	MCH	-41.58	-20	Pass
	HCH	-41.32	-20	Pass

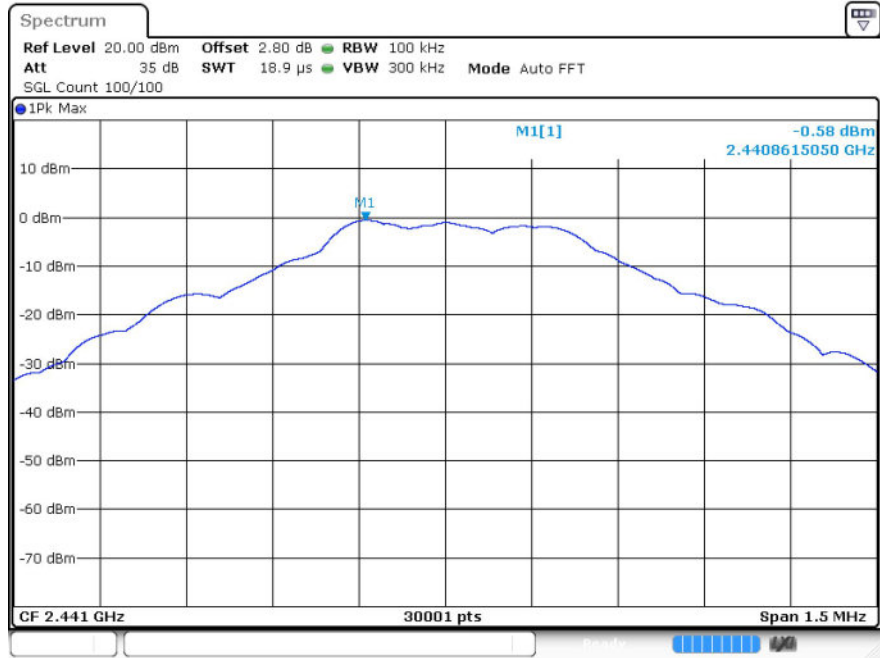
## 7.2 Test Graphs



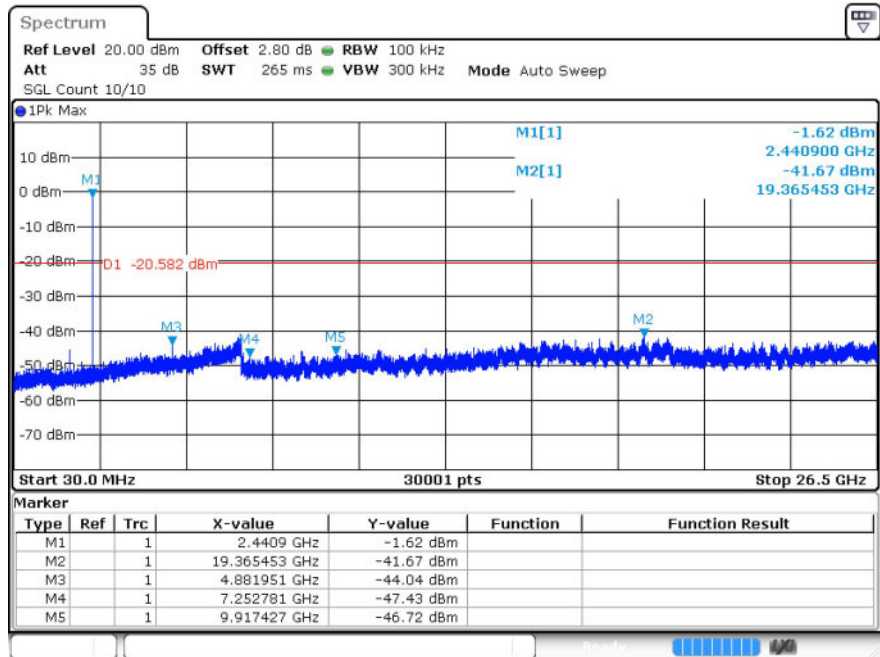


GFSK\_MCH\_Graphs

Pref

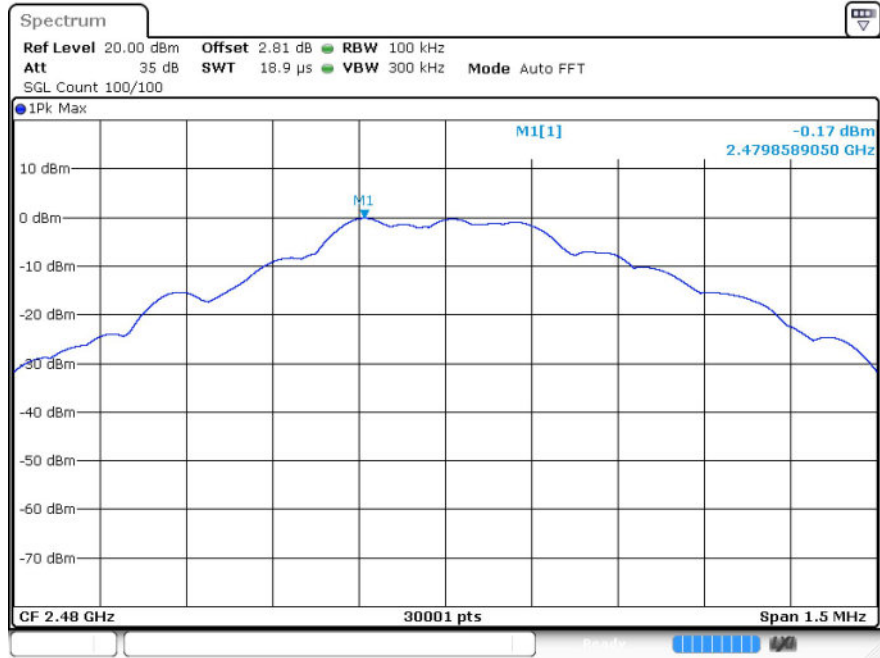


Puw



GFSK\_HCH\_Graphs

Pref



Puw

