



## Appendix A

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

Product Name: wireless speaker

Trade Mark: NewRixing

Test Model: NR-8805

#### Environmental Conditions

Temperature:	25.3°C
Relative Humidity:	52.4%
ATM Pressure:	101Kpa
Test Engineer:	Sean She
Supervised by:	Eder Zhan

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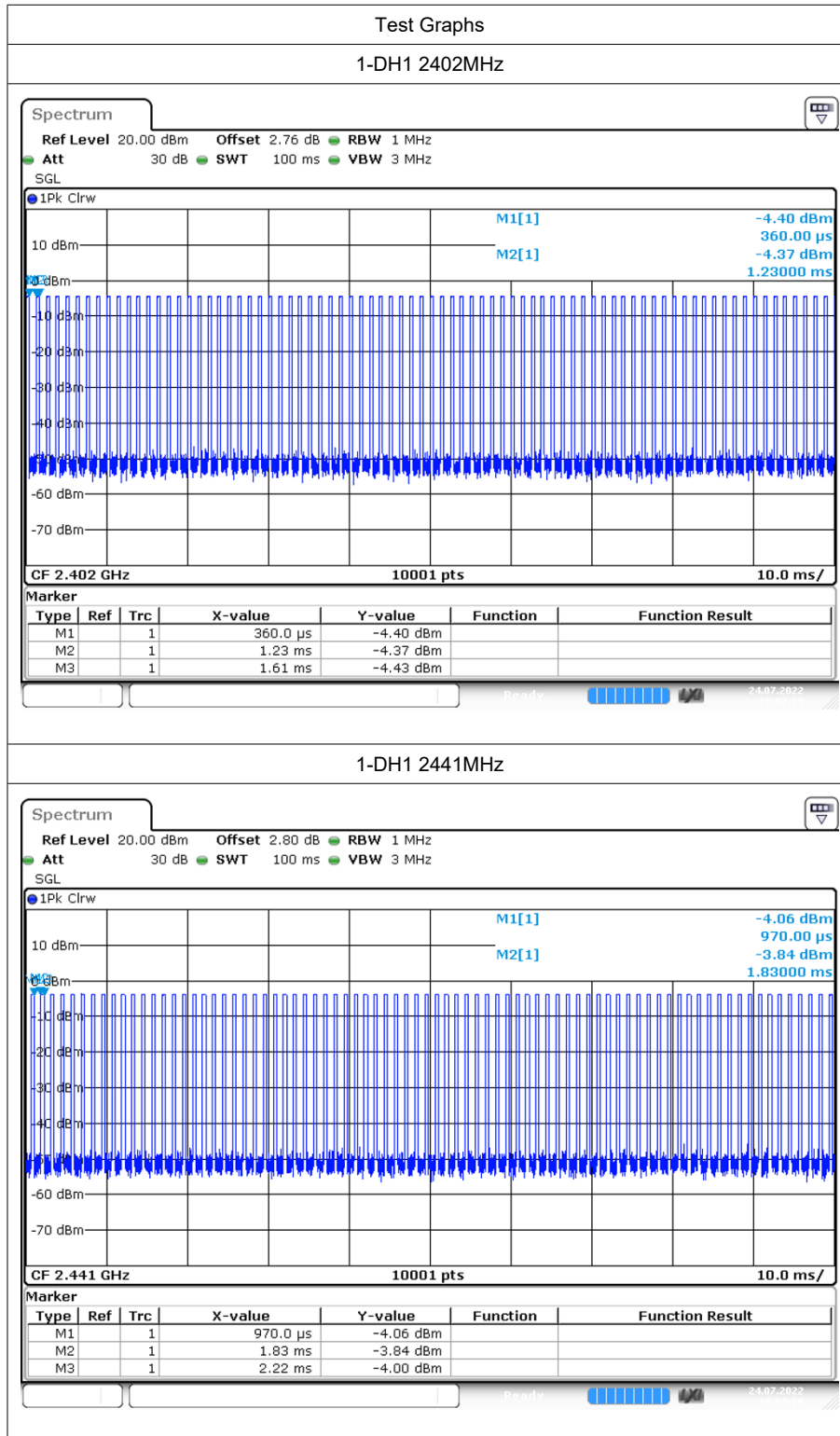
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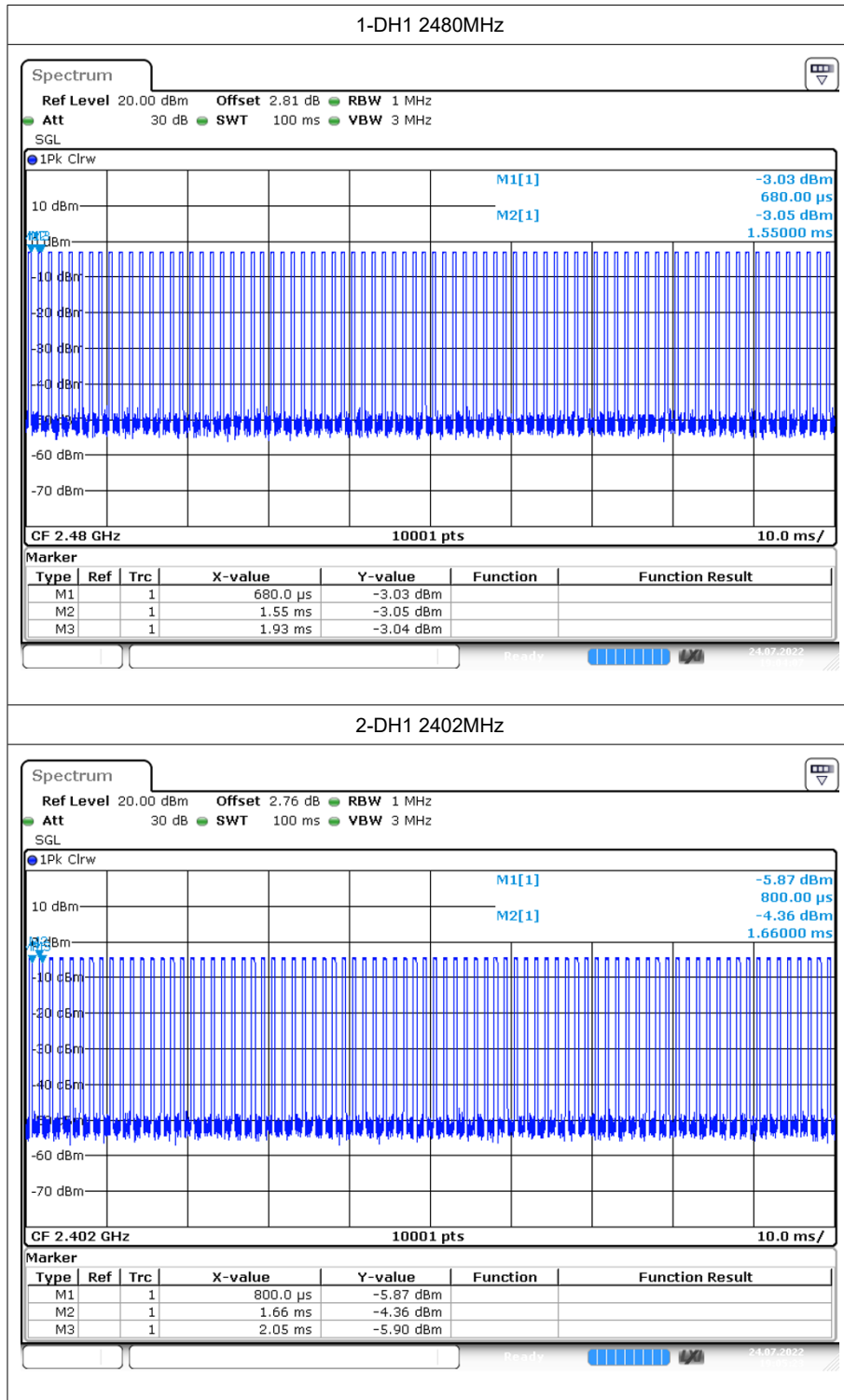
# 1 Duty Cycle

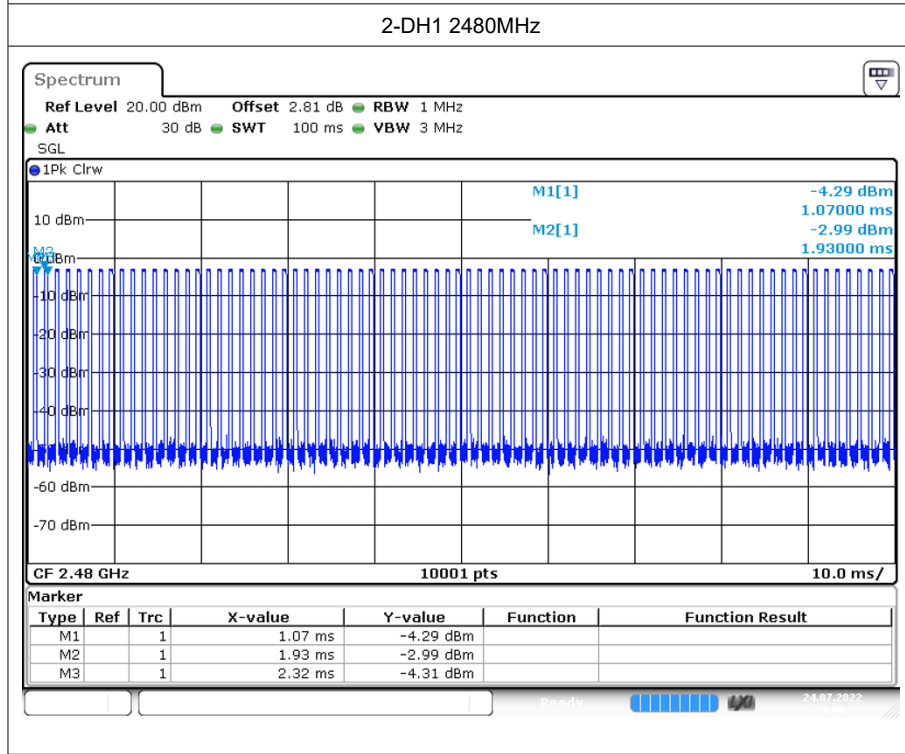
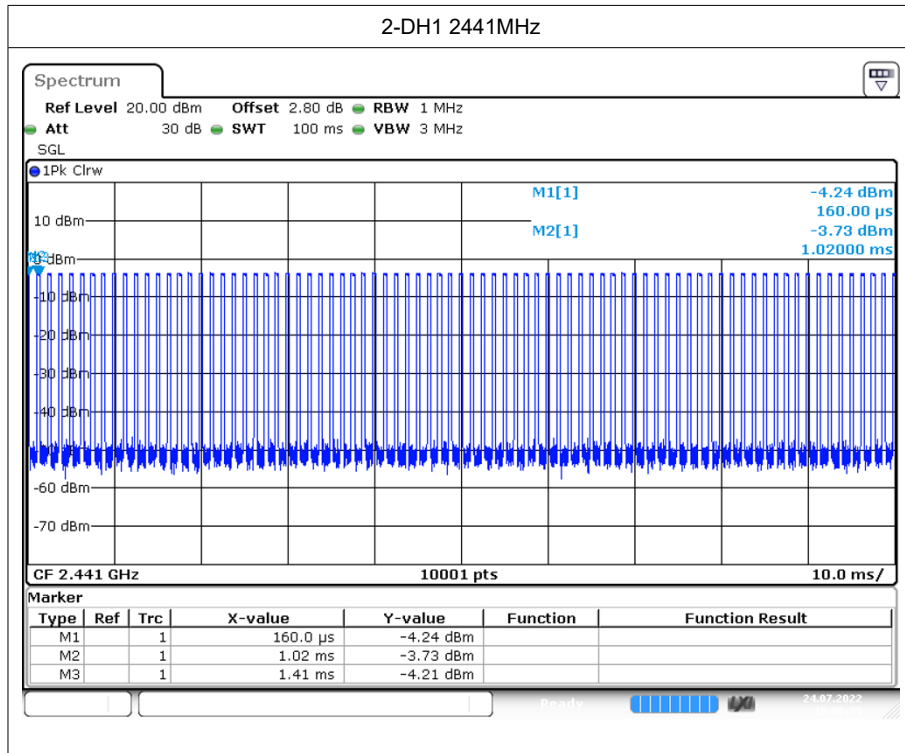
## 1.1 Test Result

Mode	Frequency (MHz)	Duty Cycle (%)	1/T (kHz)
1-DH1	2402	31.21	2.63
1-DH1	2441	32	2.56
1-DH1	2480	31.2	2.63
2-DH1	2402	32.23	2.56
2-DH1	2441	32.01	2.56
2-DH1	2480	32	2.56

## 1.2 Test Graphs





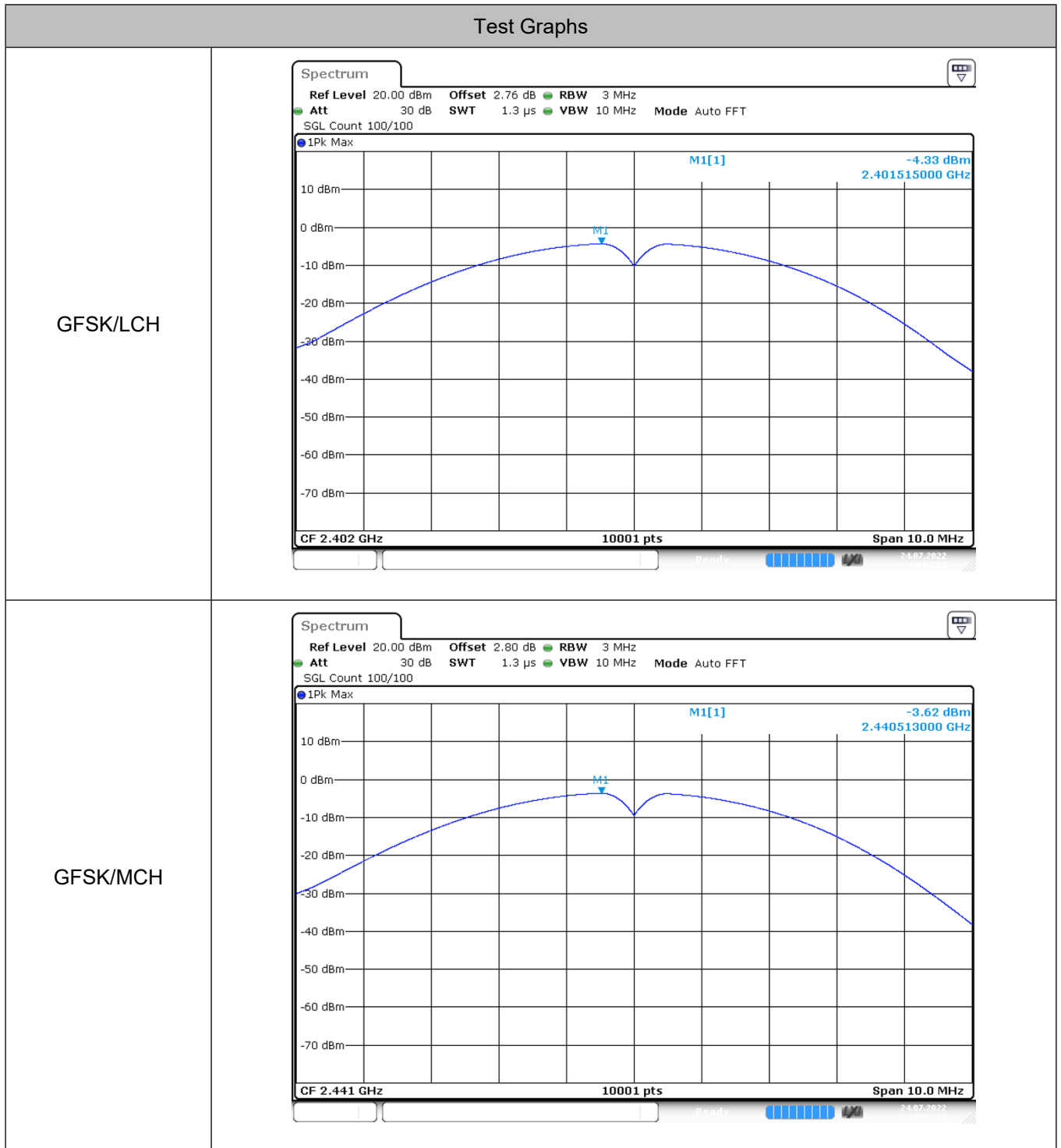


## 2 Maximum Conducted Peak Output Power

### 2.1 Test Result

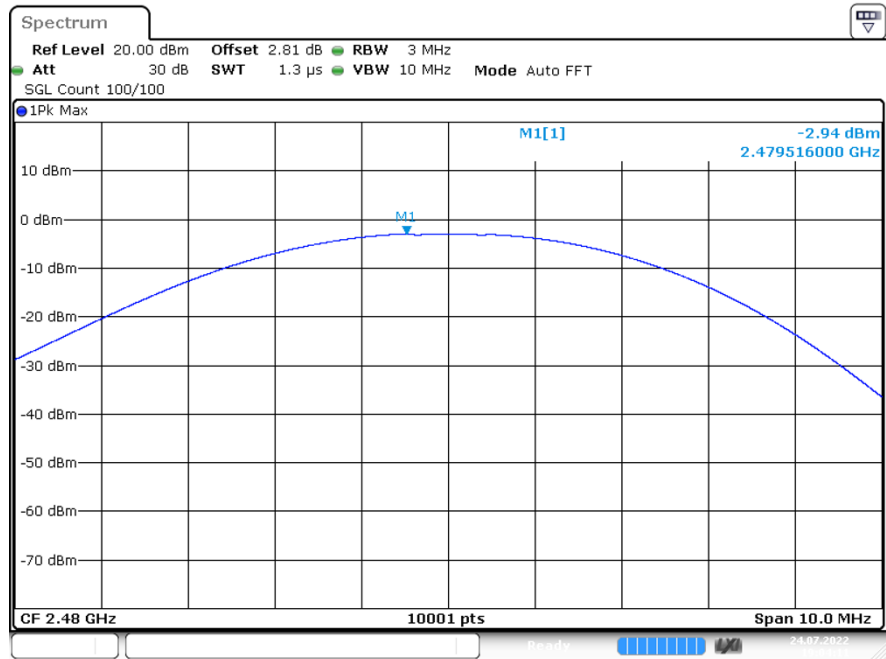
Mode	Channel.	Maximum Peak Output Power [dBm]	Limit [dBm]	Verdict
GFSK	LCH	-4.33	21	Pass
	MCH	-3.62	21	Pass
	HCH	-2.94	21	Pass
$\pi/4$ DQPSK	LCH	-3.92	21	Pass
	MCH	-3.5	21	Pass
	HCH	-2.83	21	Pass

## 2.2 Test Graphs

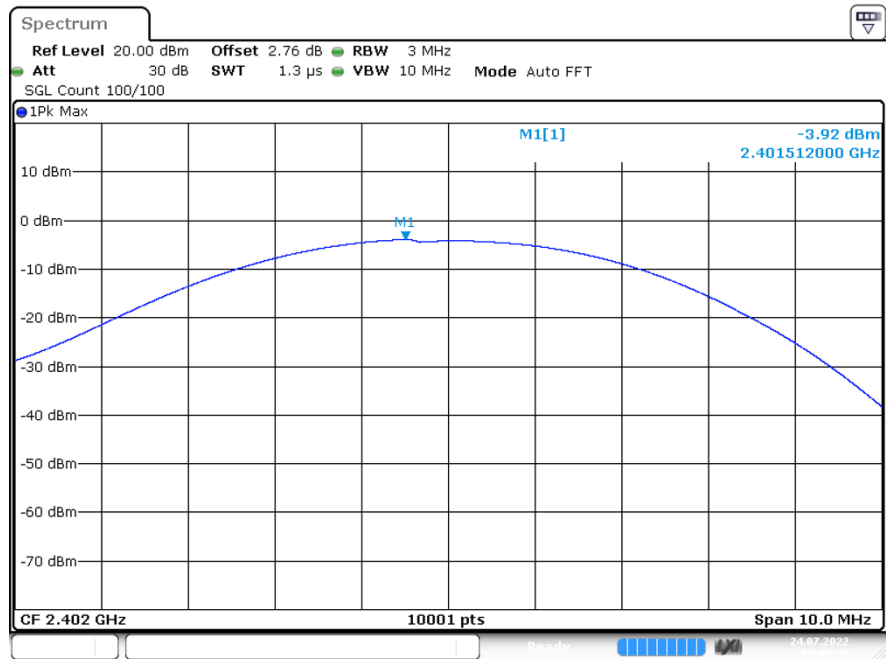




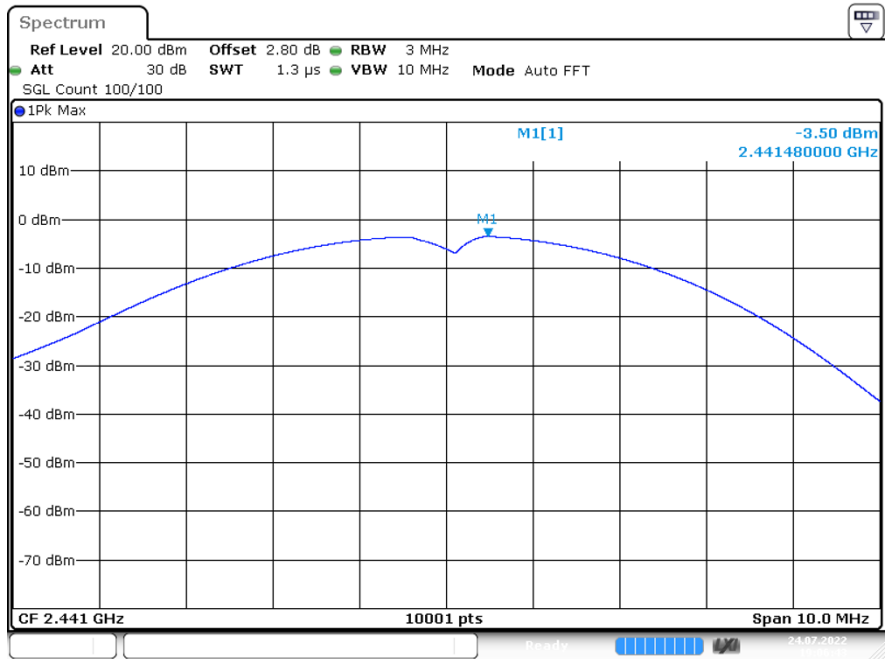
GFSK/HCH



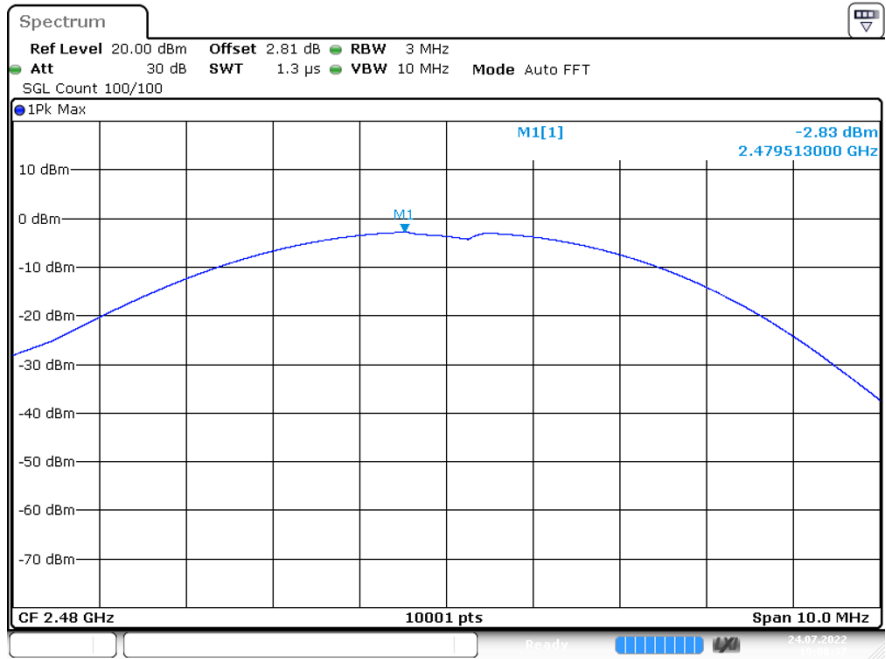
$\pi$ /4DQPSK/LCH



$\pi/4$ DQPSK/MCH



$\pi/4$ DQPSK/HCH

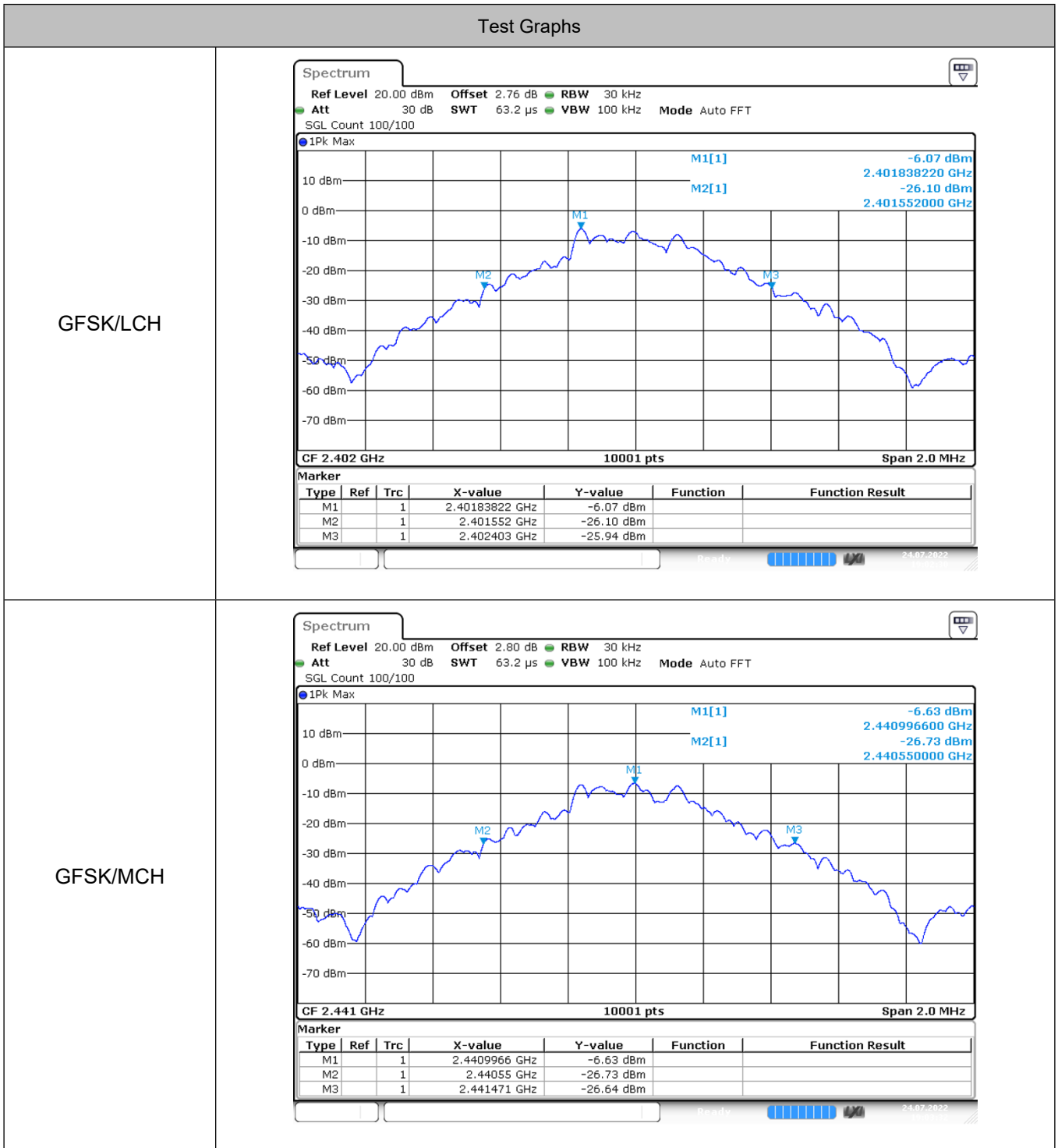


### 3 20dB Bandwidth

#### 3.1 Test Result

Mode	Channel.	20dB Bandwidth [MHz]	Limit [MHz]	Verdict
GFSK	LCH	0.851	Not Specified	Pass
	MCH	0.921	Not Specified	Pass
	HCH	0.852	Not Specified	Pass
$\pi/4$ DQPSK	LCH	1.23	Not Specified	Pass
	MCH	1.222	Not Specified	Pass
	HCH	1.213	Not Specified	Pass

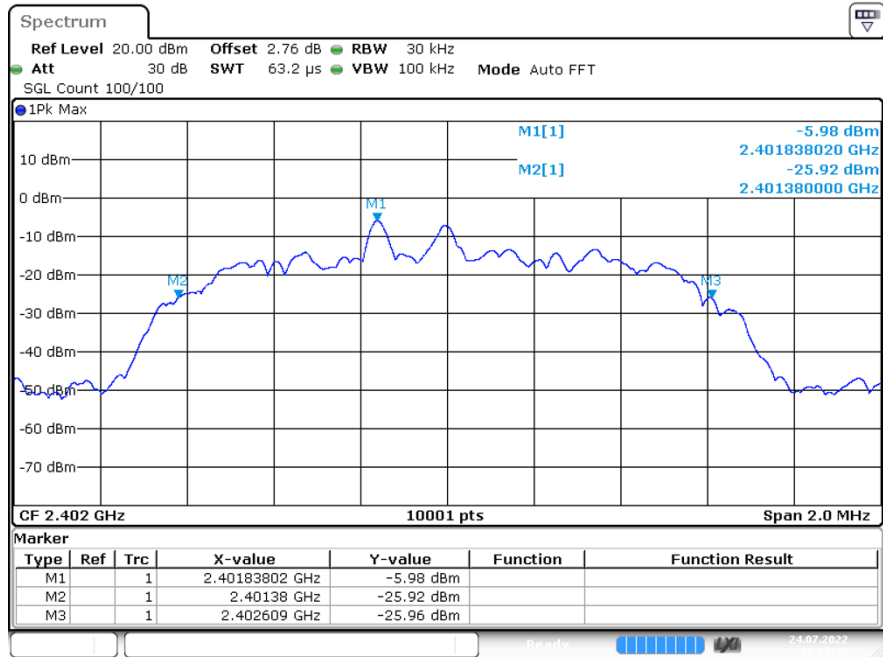
### 3.2 Test Graphs



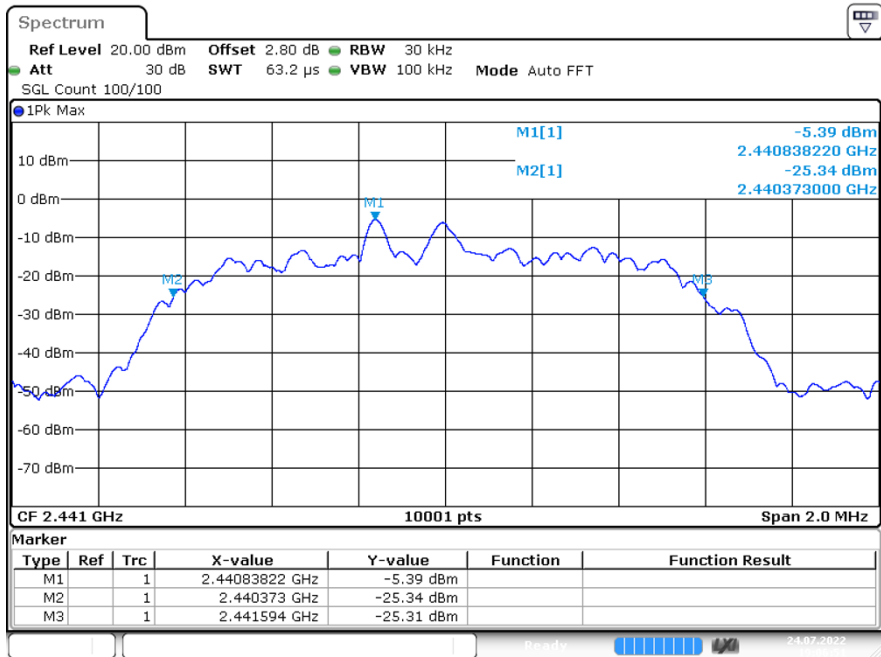
GFSK/HCH



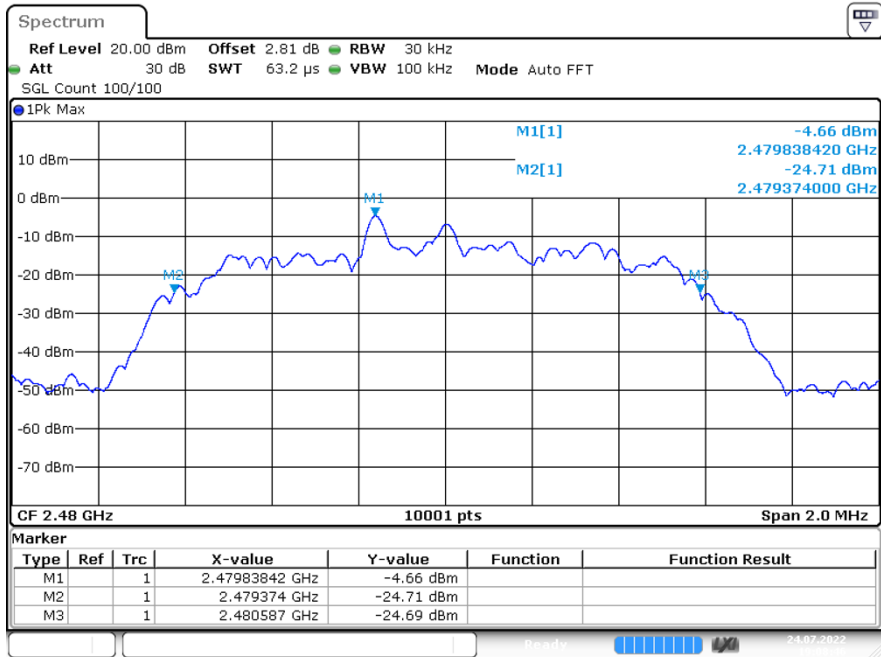
$\pi/4$ DQPSK/LCH



$\pi/4$ DQPSK/MCH



$\pi/4$ DQPSK/HCH

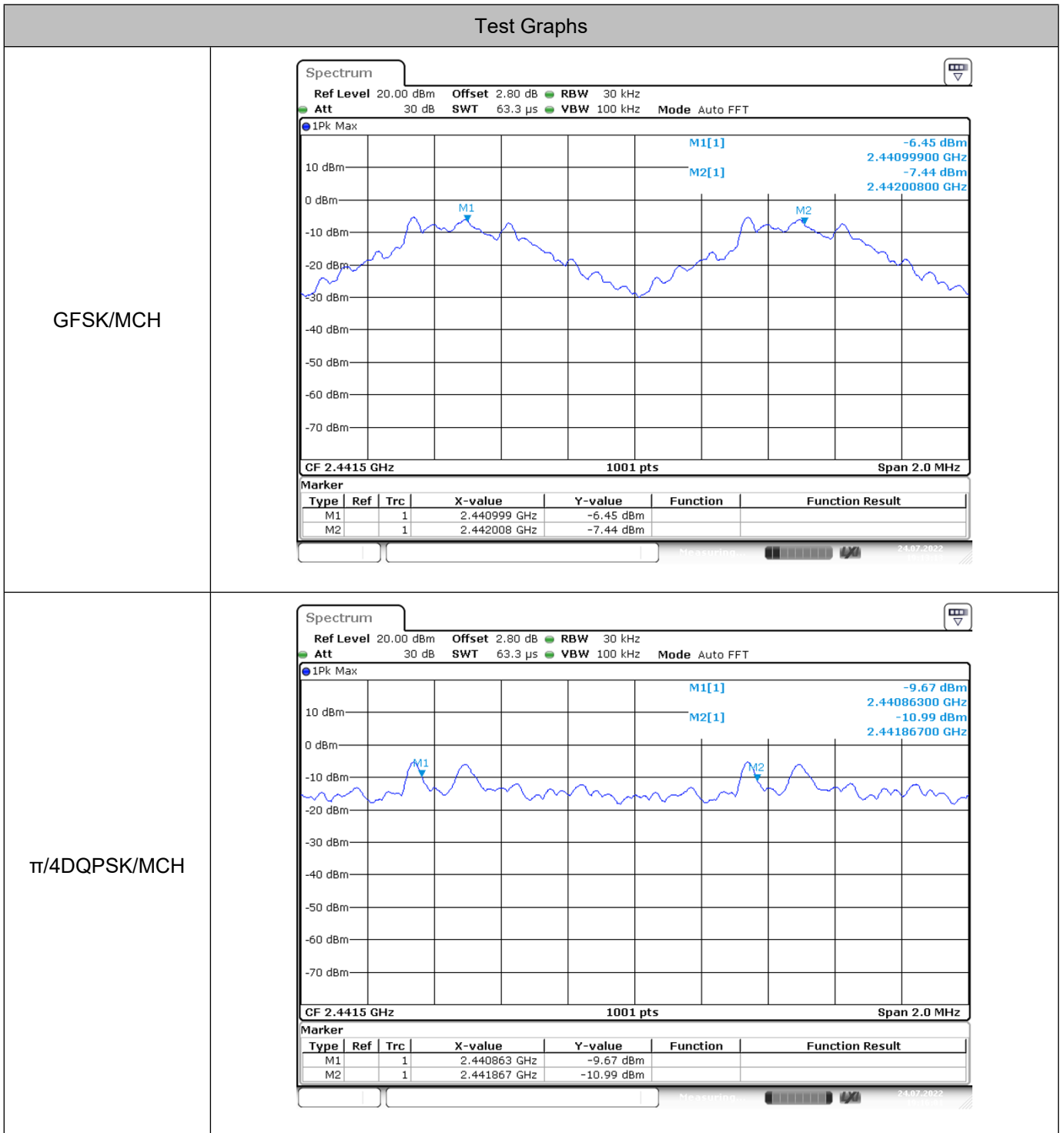


## 4 Carrier Frequency Separation

### 4.1 Test Result

Mode	Channel.	Carrier Frequency Separation [MHz]	Limit [MHz]	Verdict
GFSK	MCH	1.009	0.614	Pass
$\pi/4$ DQPSK	MCH	1.004	0.815	Pass

## 4.2 Test Graphs



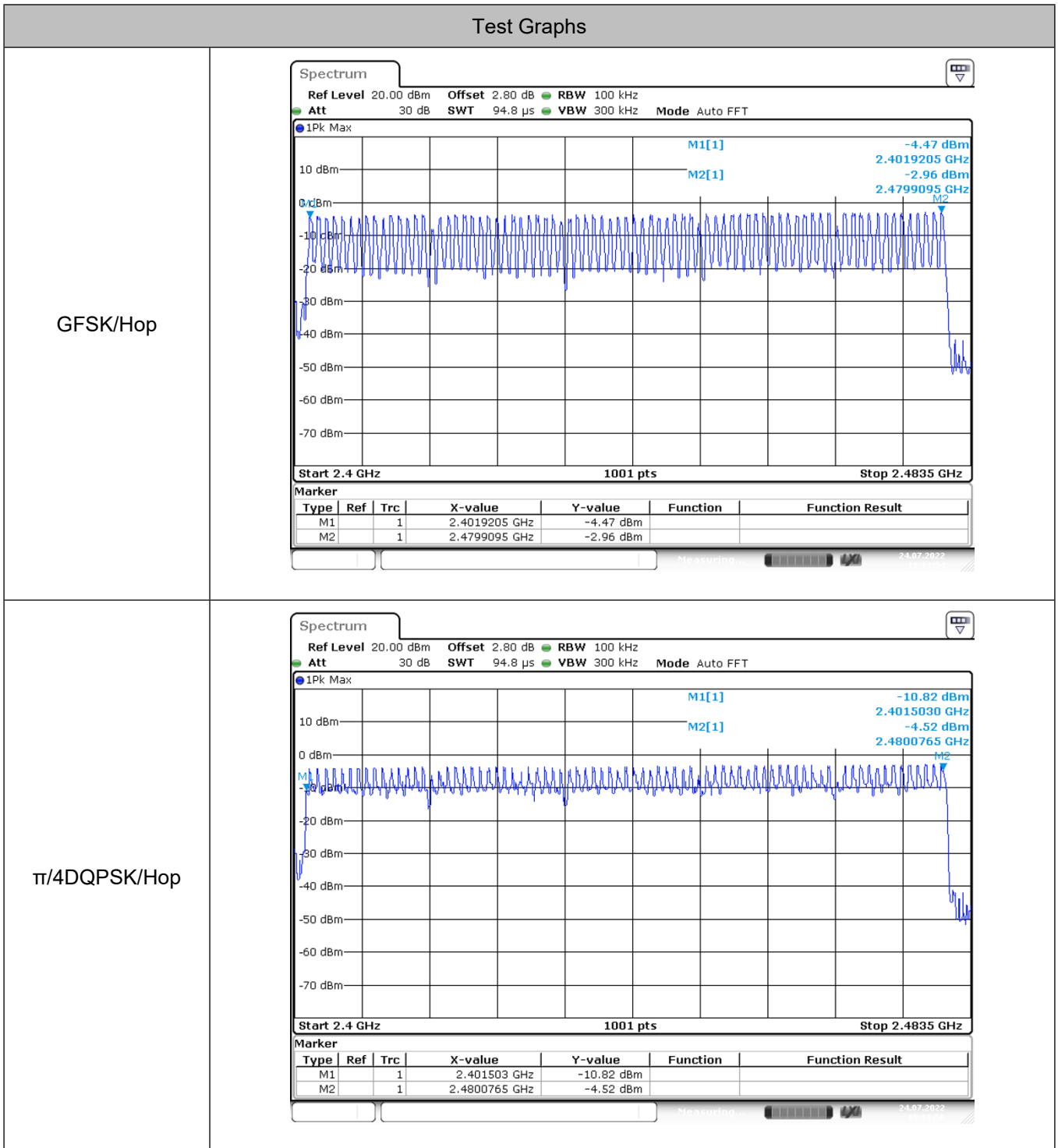


## 5 Hopping Channel Number

### 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

## 5.2 Test Graphs

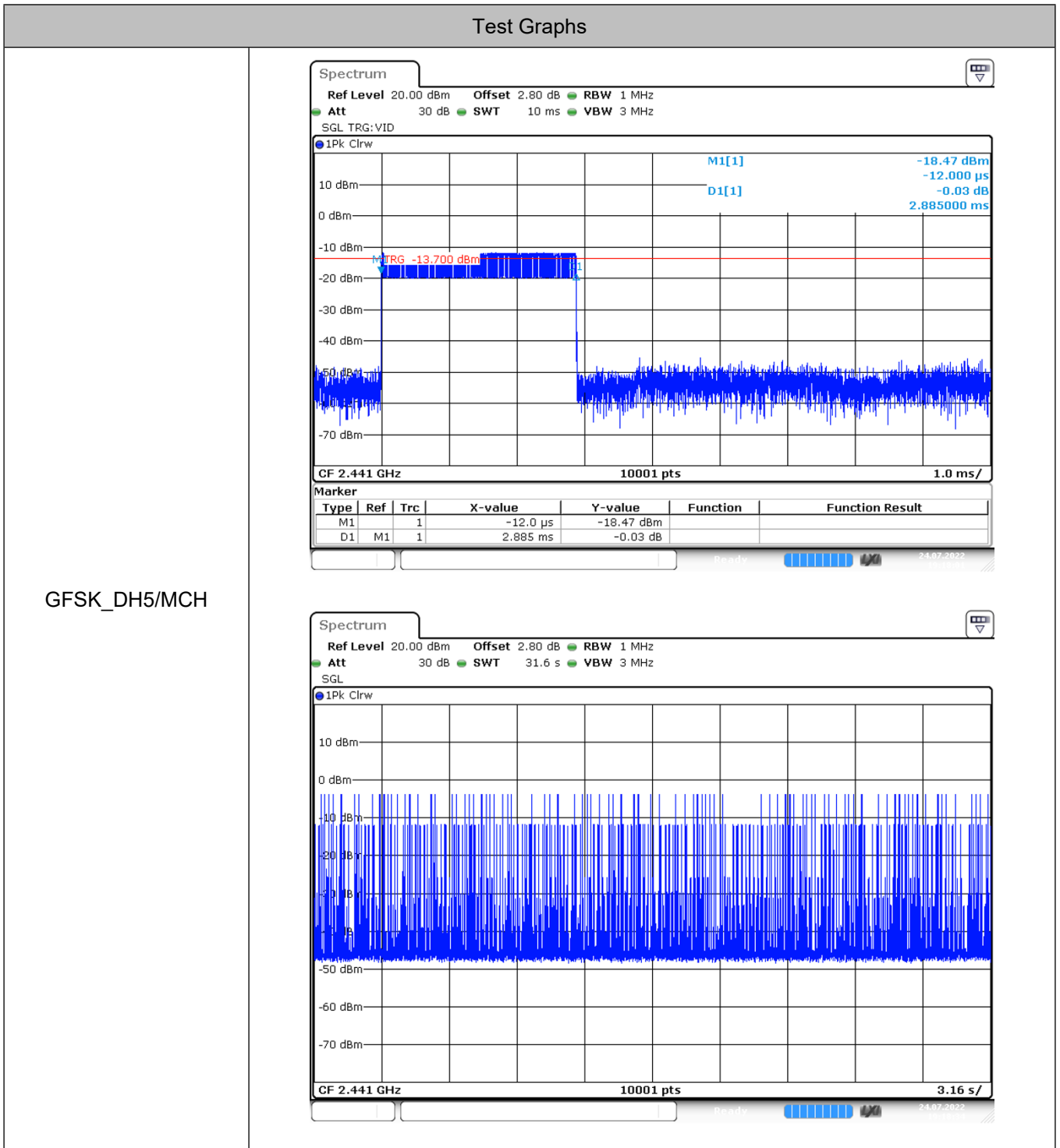


## 6 Dwell Time

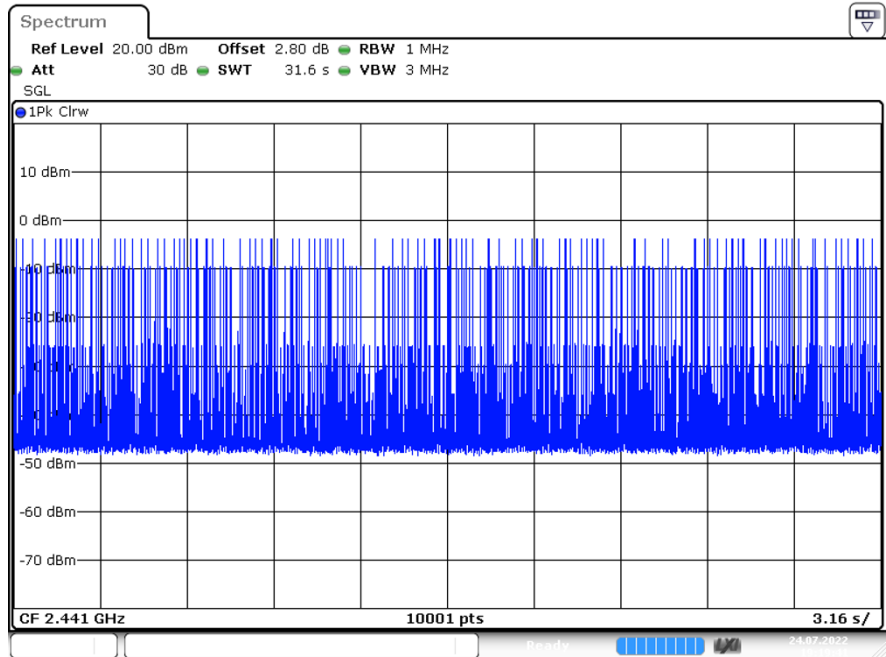
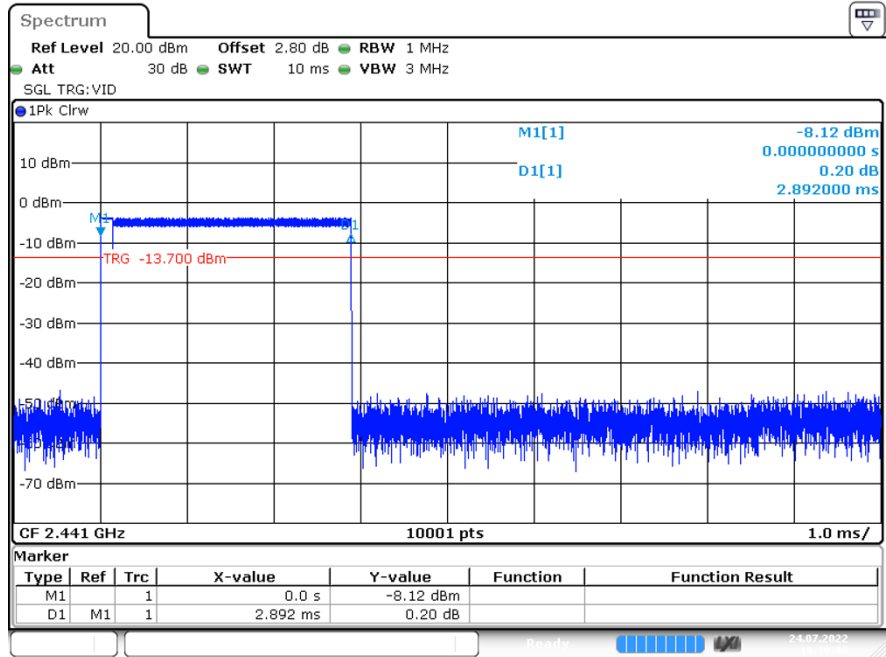
### 6.1 Test Result

Mode	Packet	Channel	Burst Width [ms/hop/ch]	Total Hops[hop*ch]	Dwell Time[ms]	Limit [s]	Verdict
GFSK	DH5	MCH	2.885	104	300.04	0.4	Pass
$\pi/4$ DQPSK	2DH5	MCH	2.892	124	358.608	0.4	Pass

## 6.2 Test Graphs



$\pi/4$ DQPSK  
\_2DH5/MCH

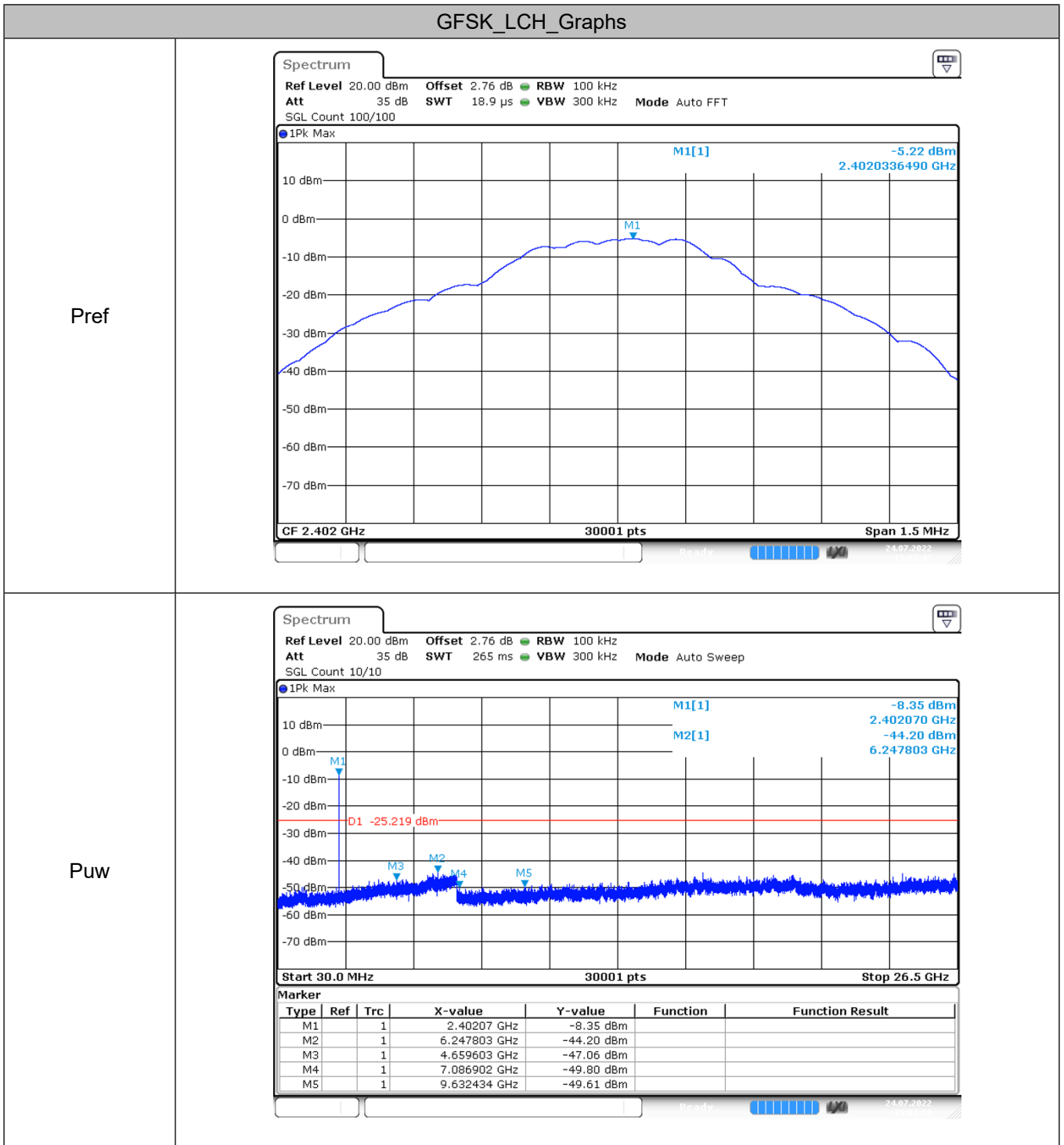


## 7 RF Conducted Spurious Emissions

### 7.1 Test Result

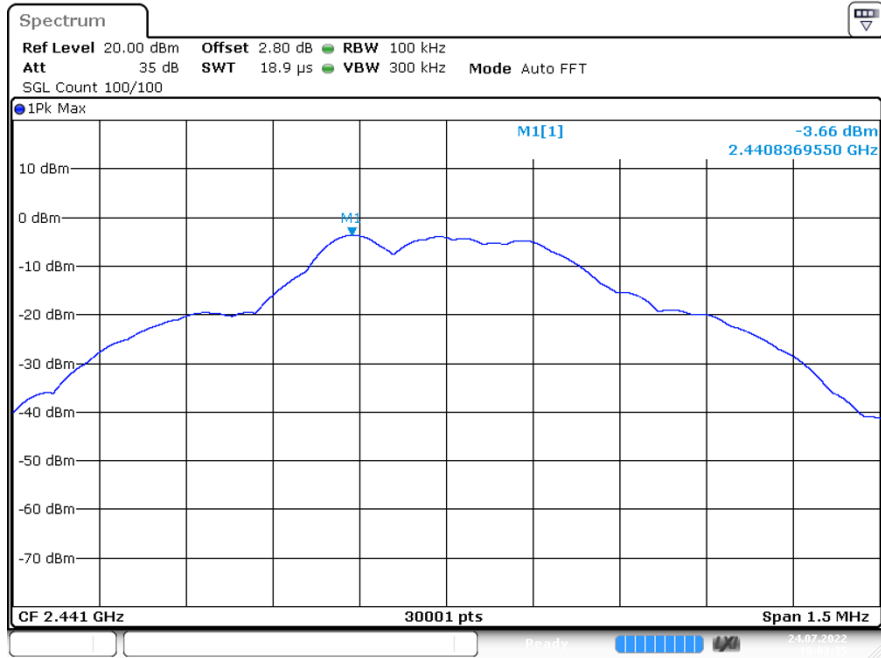
Mode	Channel	Max. Level [dBc]	Limit [dBc]	Verdict
GFSK	LCH	-38.98	-20	Pass
	MCH	-40.79	-20	Pass
	HCH	-40.77	-20	Pass
$\pi/4$ DQPSK	LCH	-39.76	-20	Pass
	MCH	-40.11	-20	Pass
	HCH	-41.21	-20	Pass

## 7.2 Test Graphs

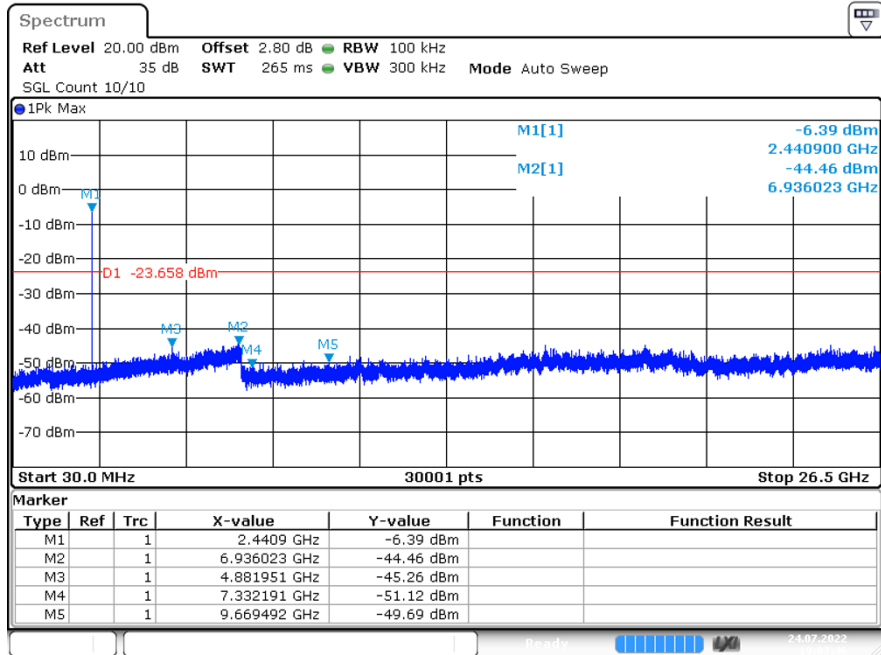


GFSK\_MCH\_Graphs

Pref



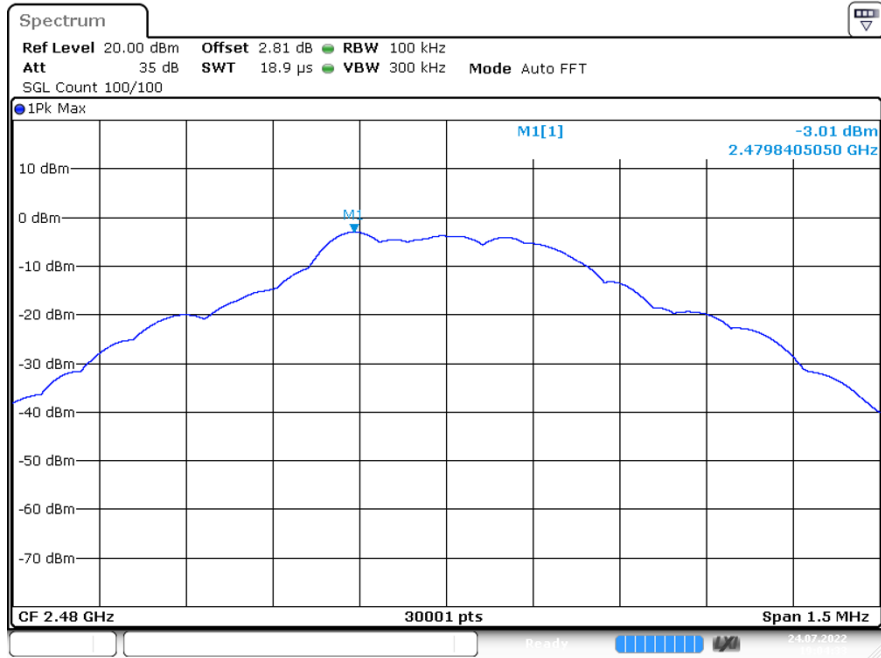
Puw



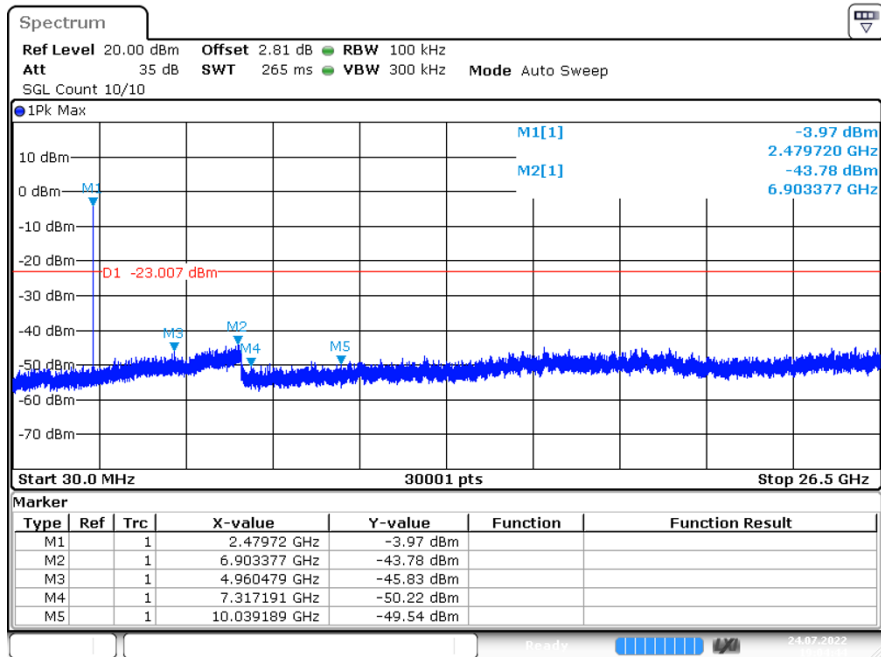


GFSK\_HCH\_Graphs

Pref

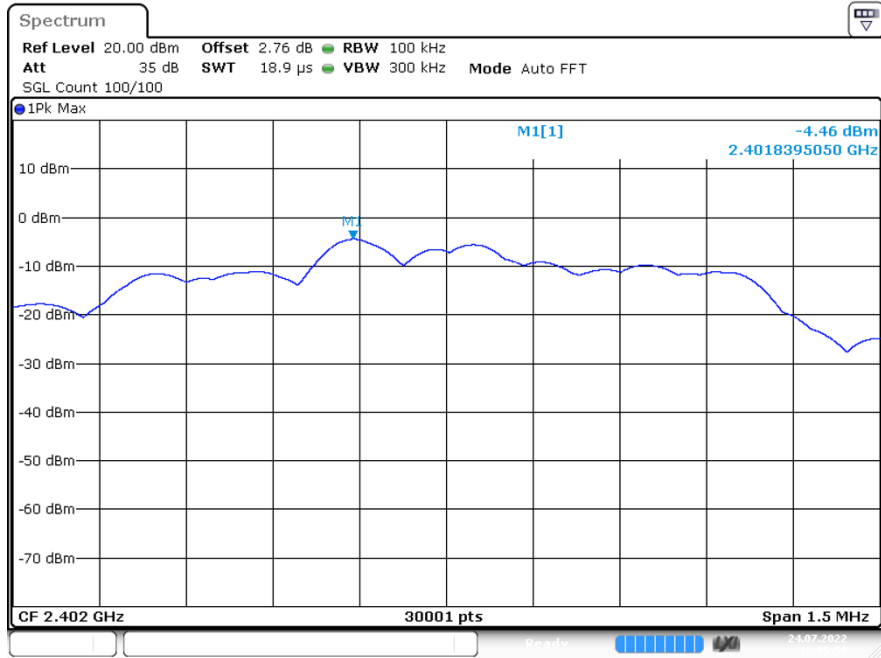


Puw

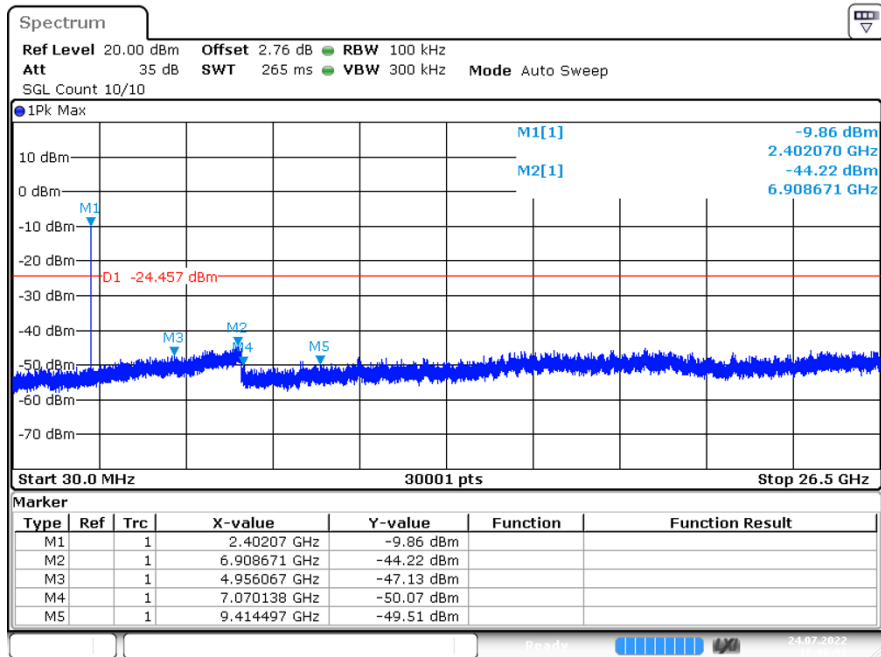


$\pi/4$ DQPSK\_LCH\_Graphs

Pref

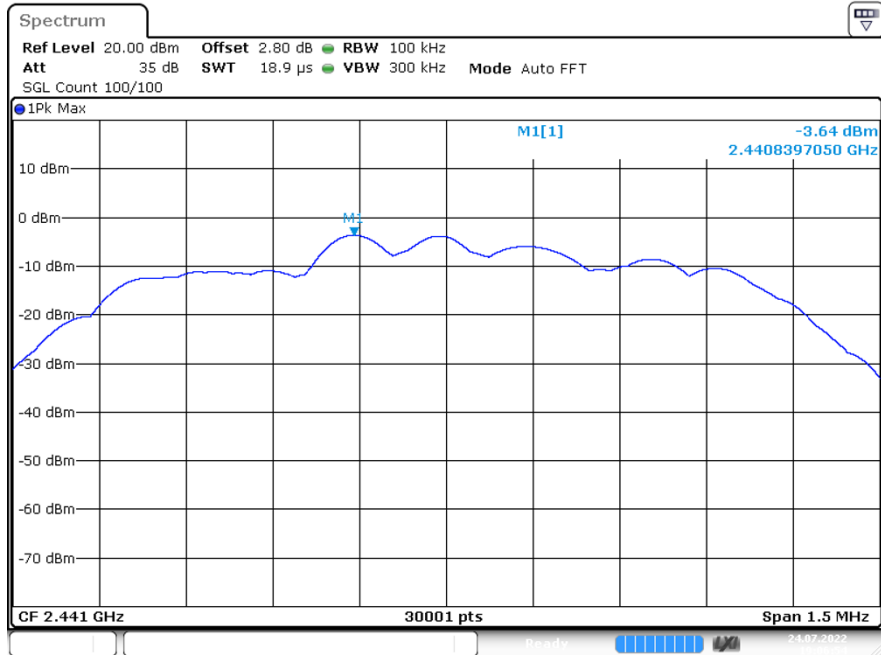


Puw

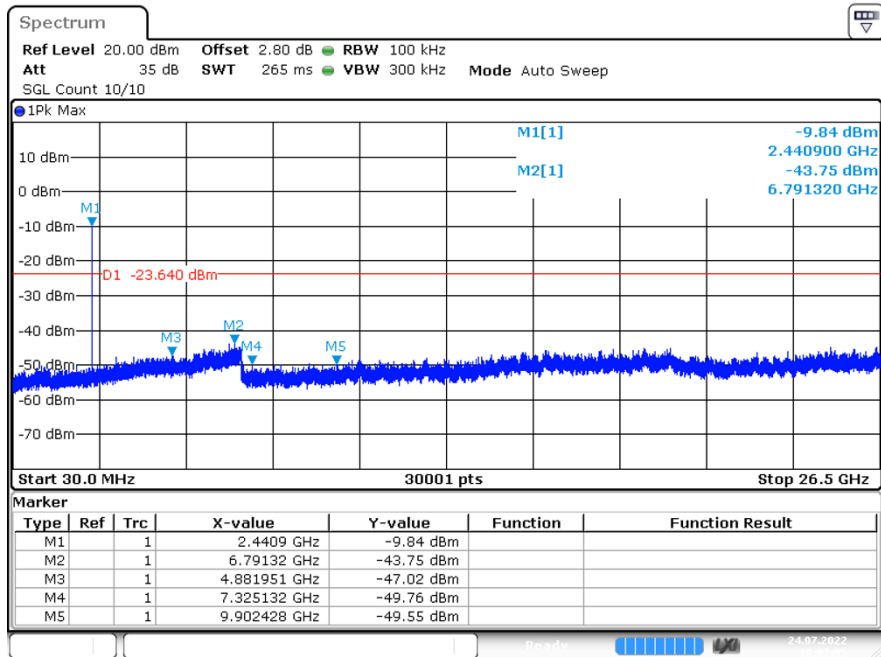


$\pi/4$ DQPSK\_MCH\_Graphs

Pref

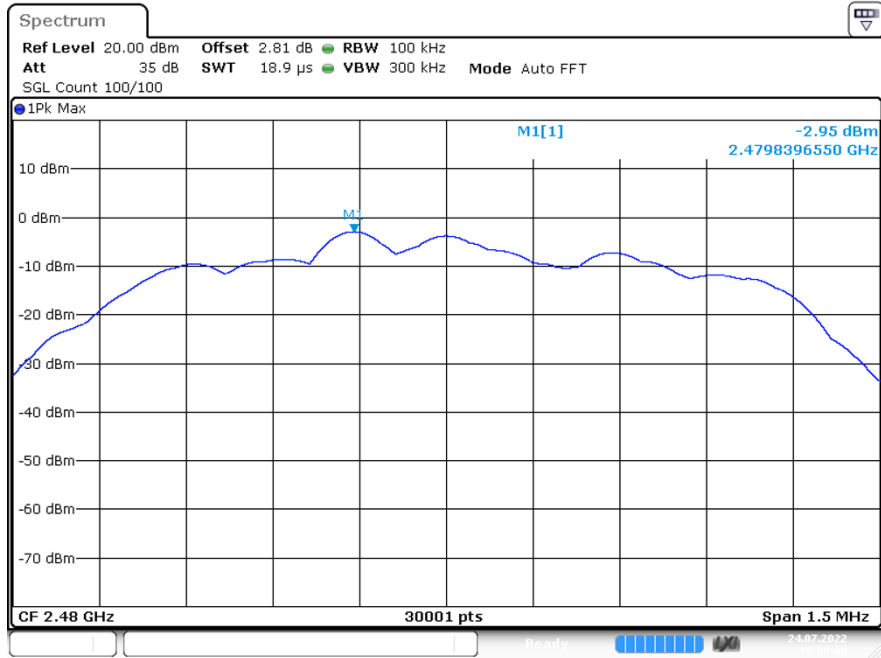


Puw

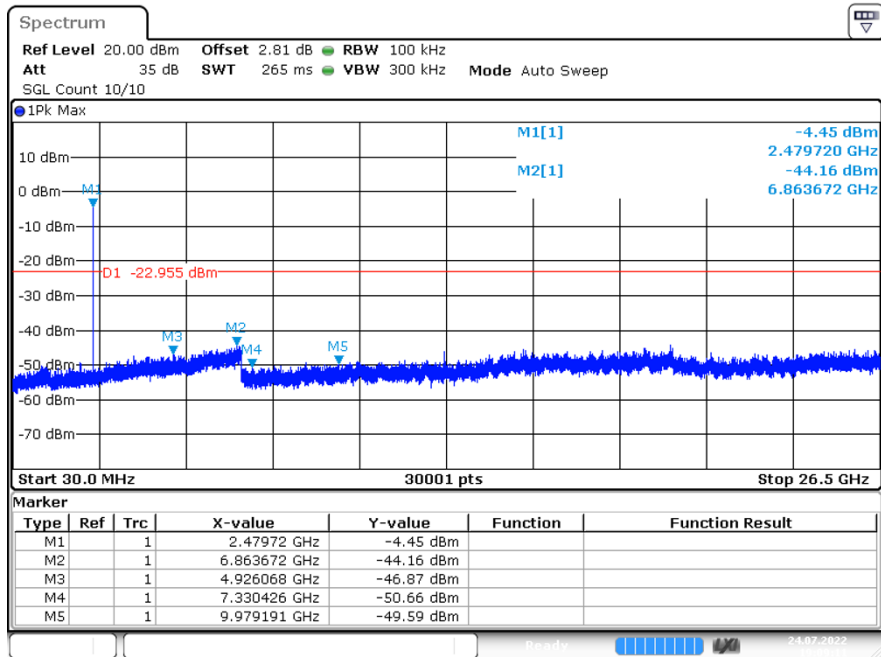


$\pi/4$ DQPSK\_HCH\_Graphs

Pref



Puw

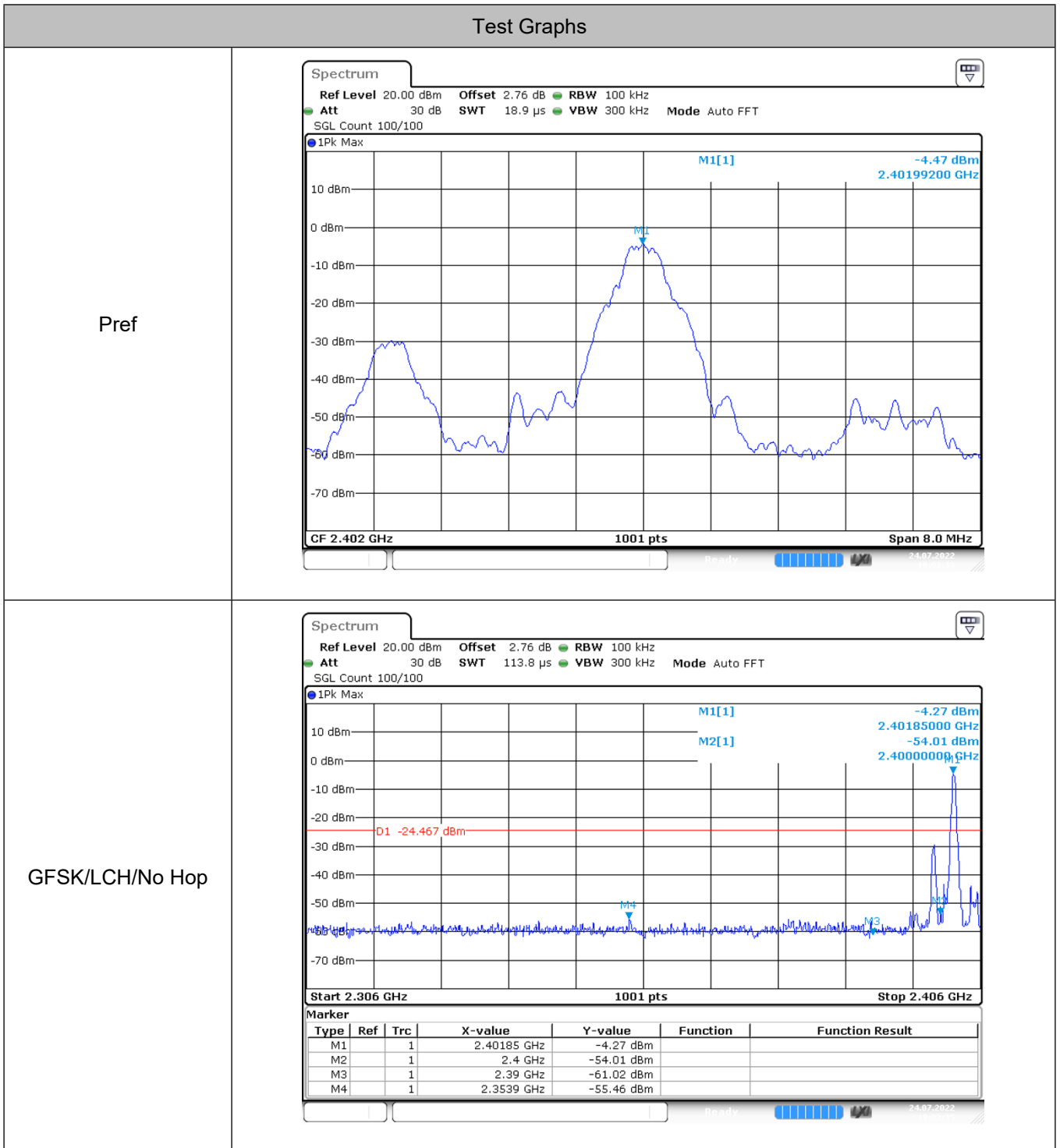


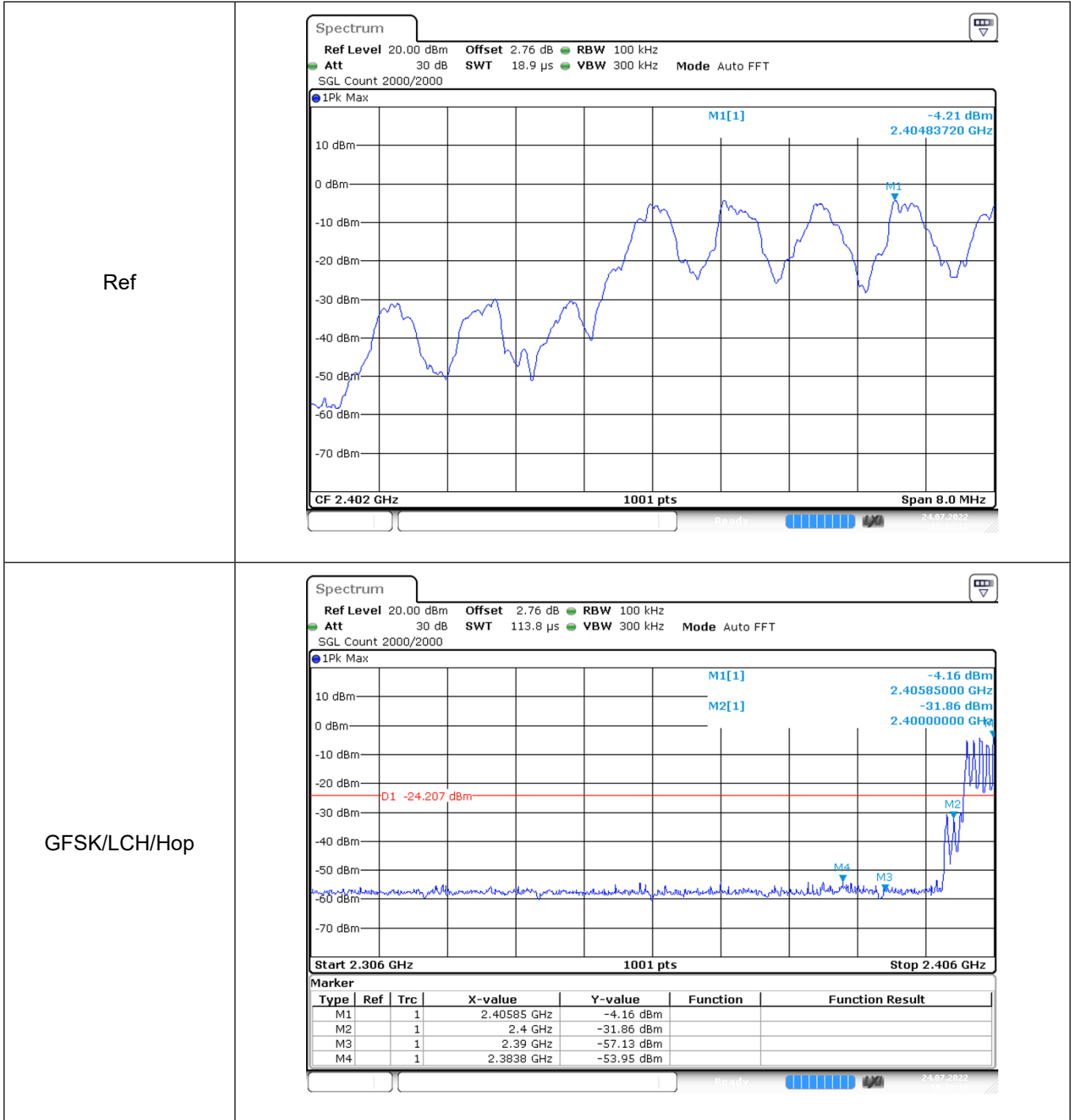
## 8 Band-edge for RF Conducted Emissions

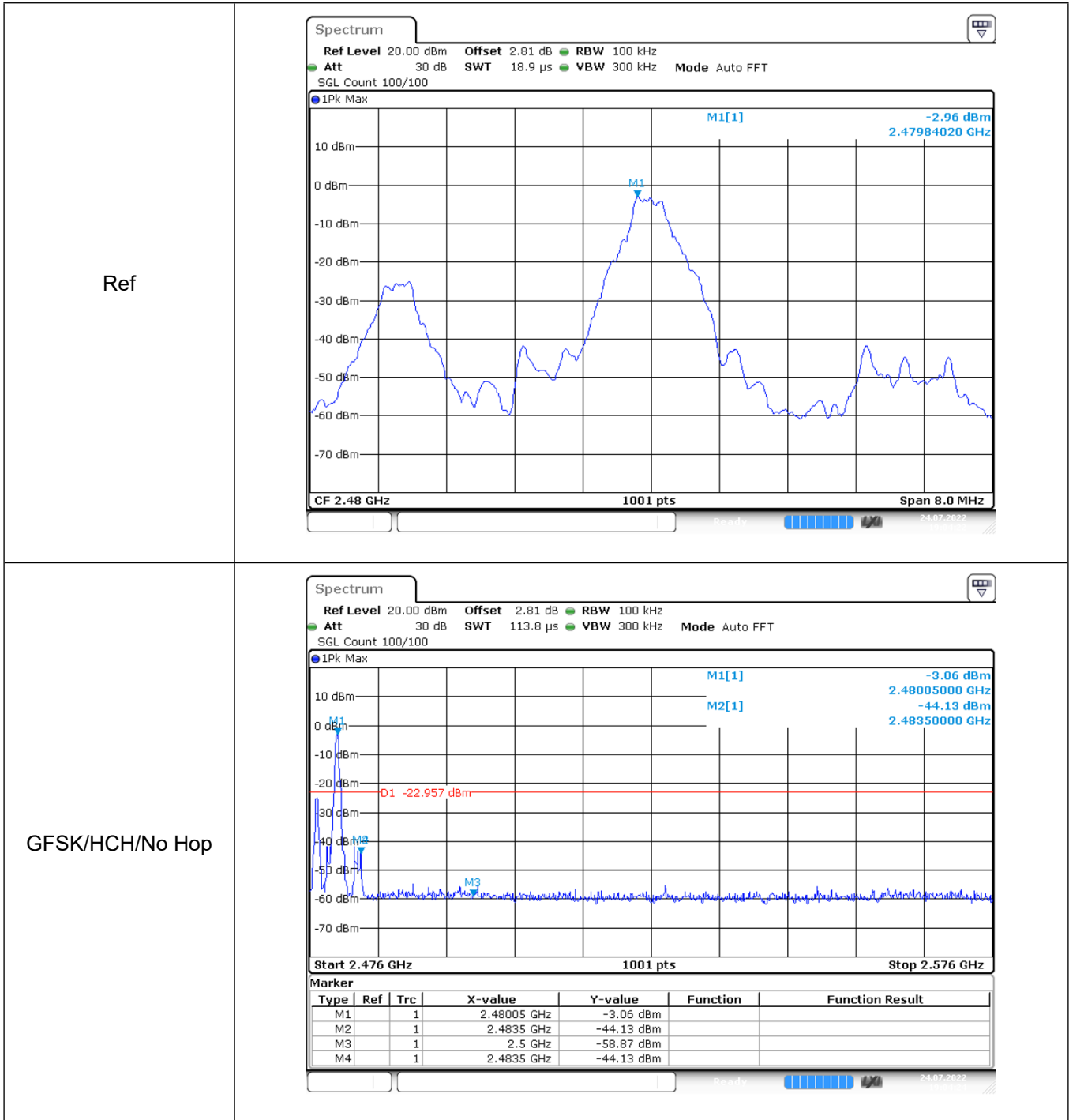
### 8.1 Test Result

Mode	Channel	Carrier Frequency [MHz]	Frequency Hopping	Max Spurious Level [dBc]	Limit [dBc]	Verdict
GFSK	LCH	2402	Off	-50.99	-20	Pass
			On	-49.74	-20	Pass
	HCH	2480	Off	-41.17	-20	Pass
			On	-42.05	-20	Pass
$\pi/4$ DQPSK	LCH	2402	Off	-52.05	-20	Pass
			On	-50.59	-20	Pass
	HCH	2480	Off	-44.49	-20	Pass
			On	-46.07	-20	Pass

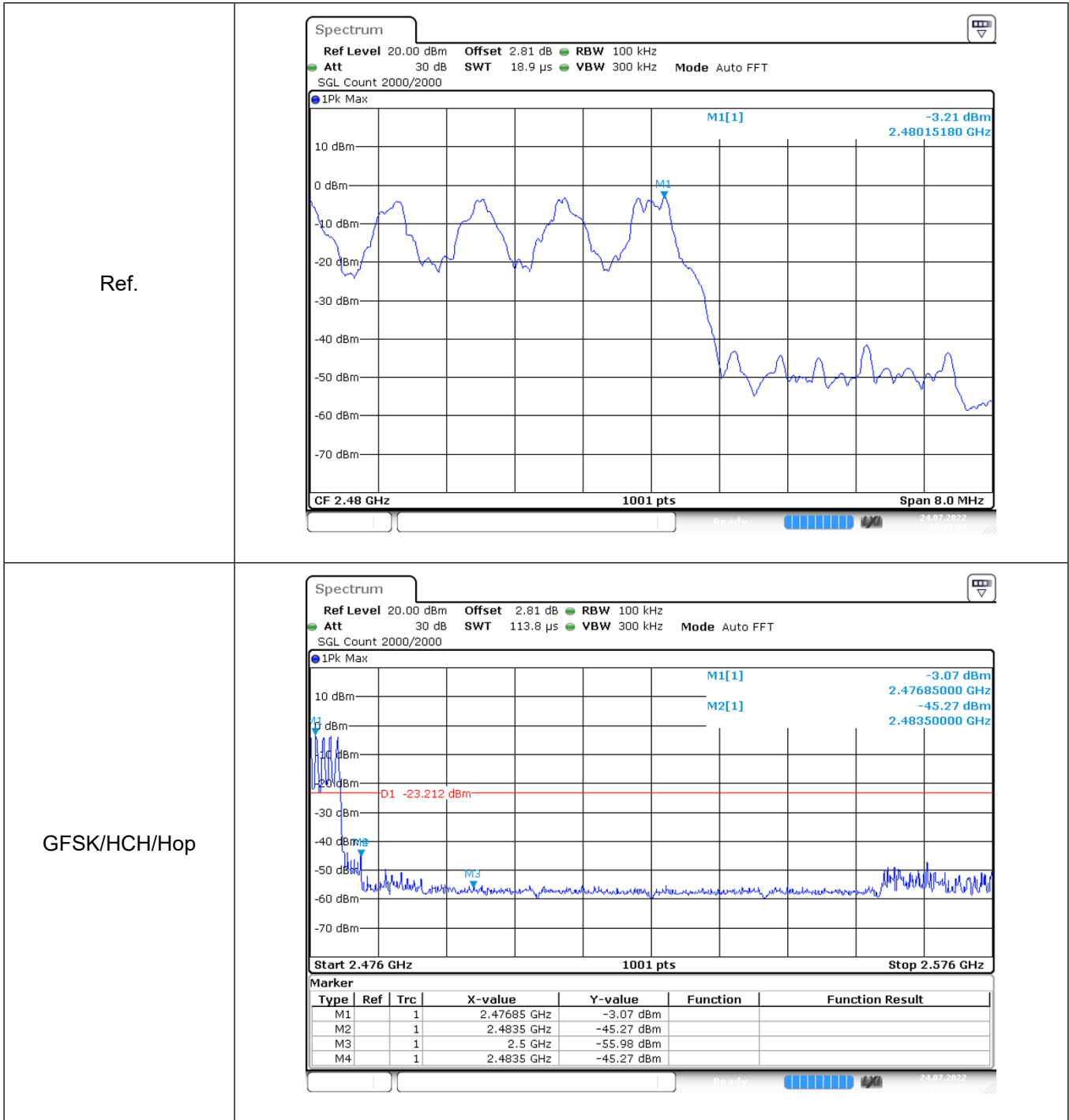
## 8.2 Test Graphs

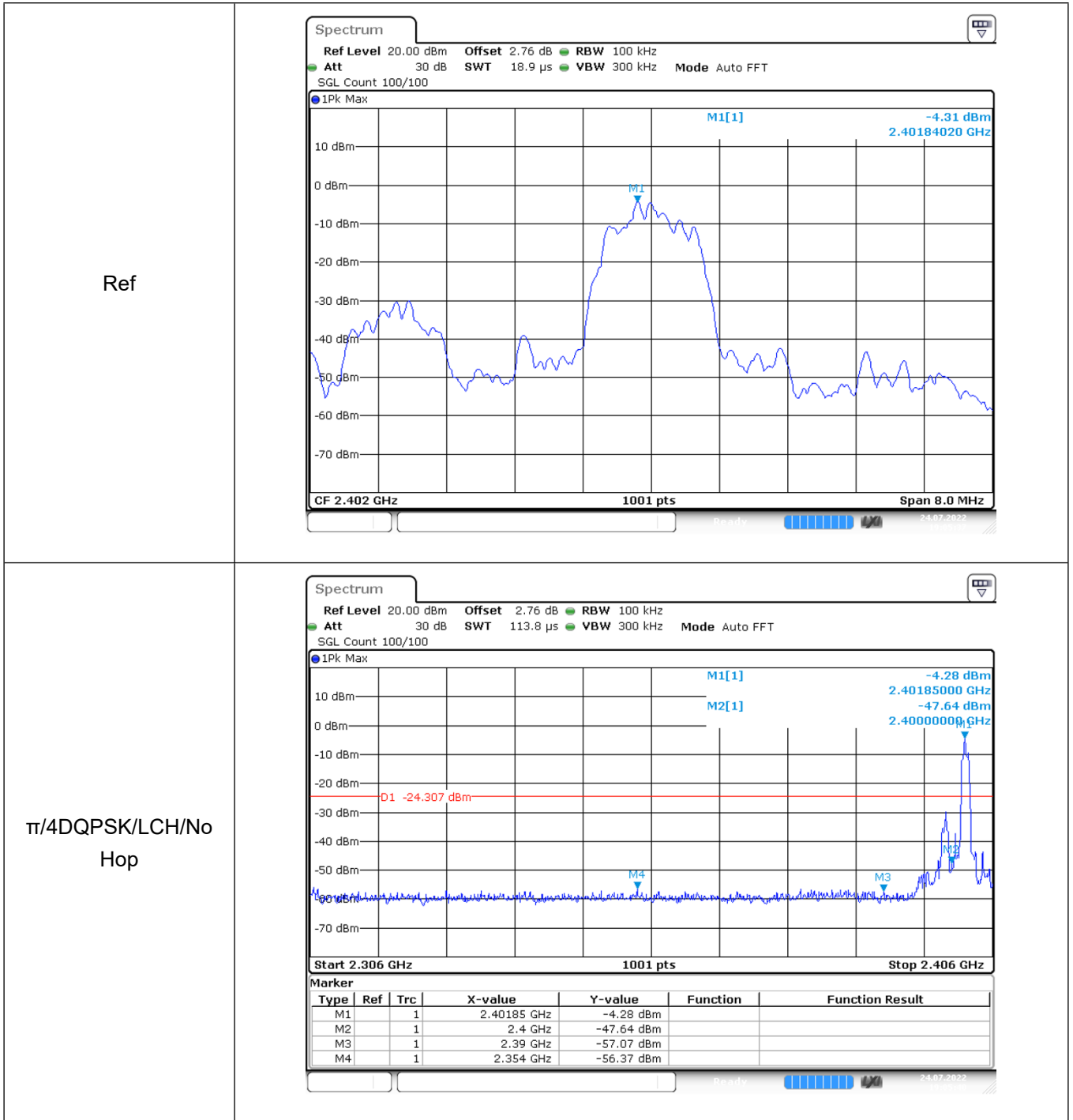


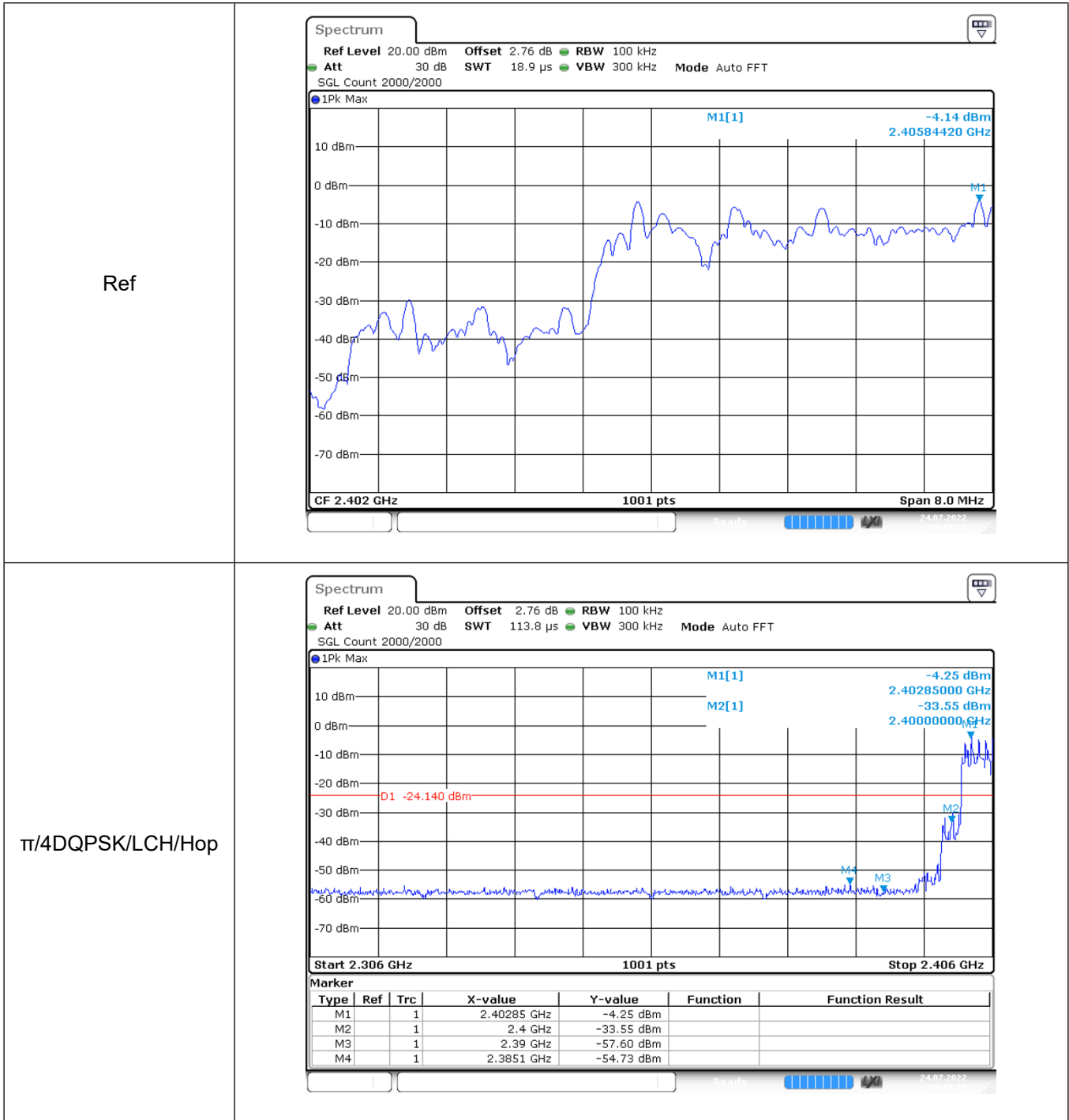


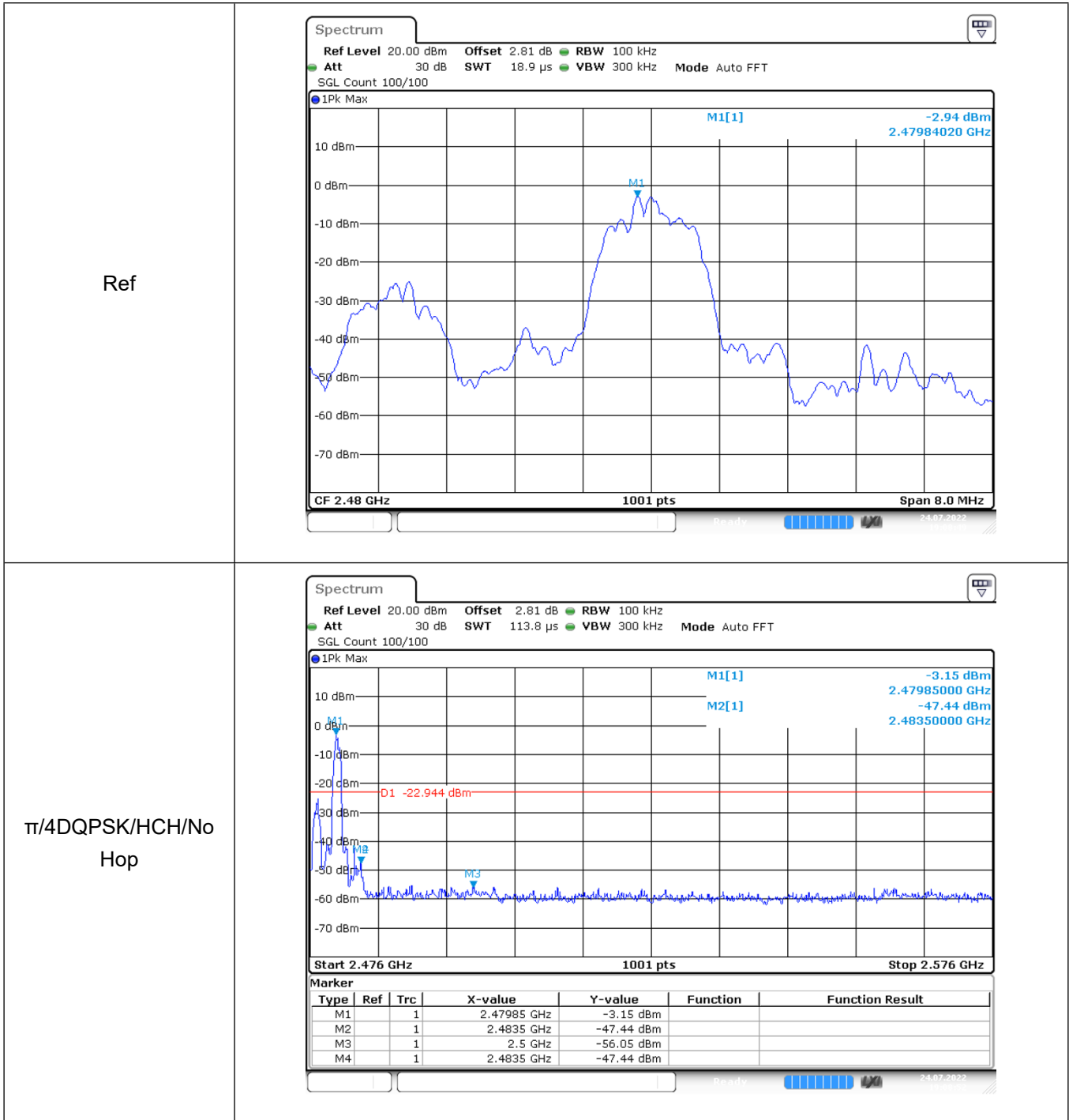


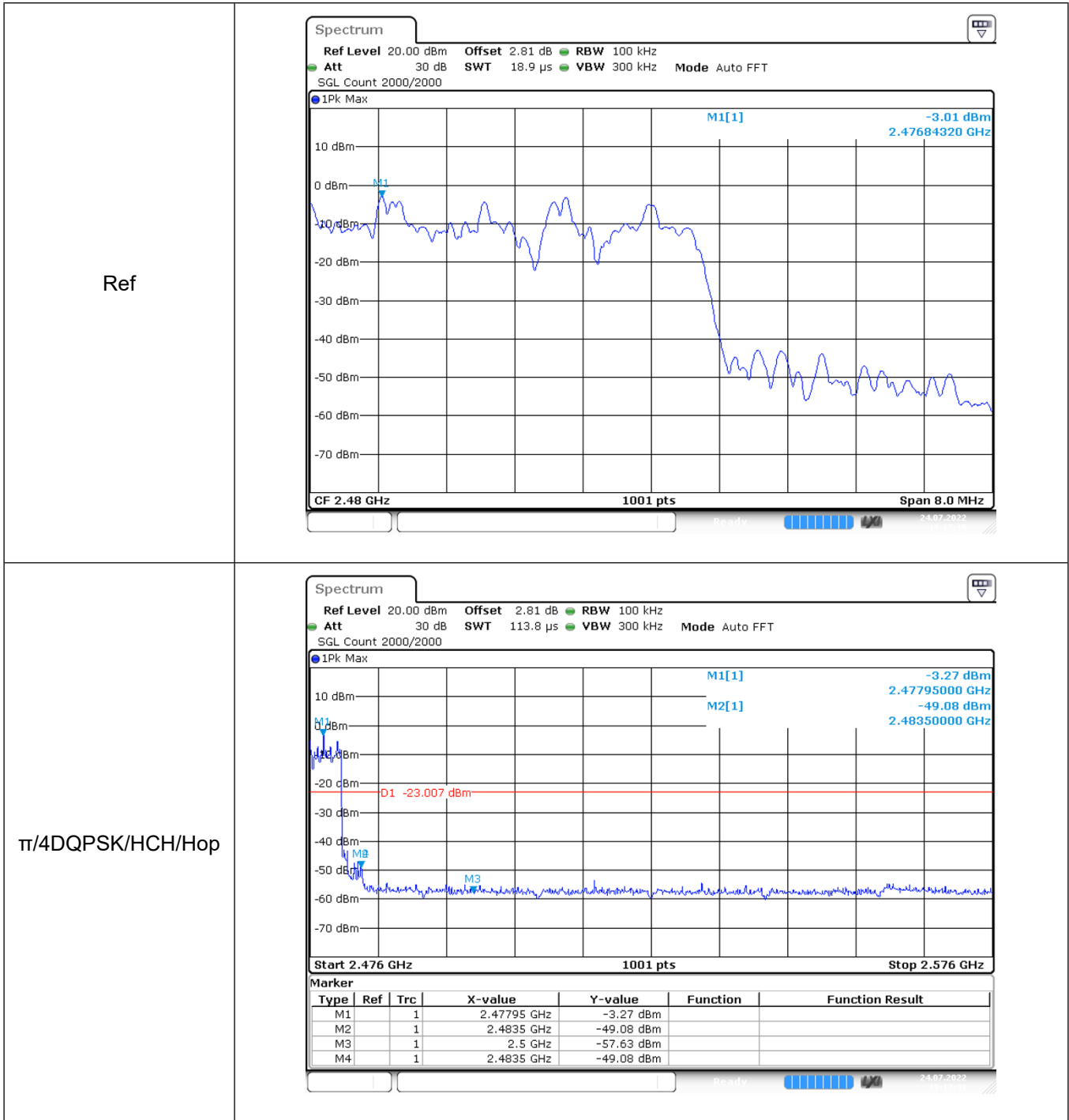












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