



Appendix A

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

Product Name: Portable Speaker

Trade Mark: PYLE

Test Model: PPHP8496

Environmental Conditions

Temperature:	26.8°C
Relative Humidity:	54.2%
ATM Pressure:	101Kpa
Test Engineer:	Emiya lin
Supervised by:	Simba Haung

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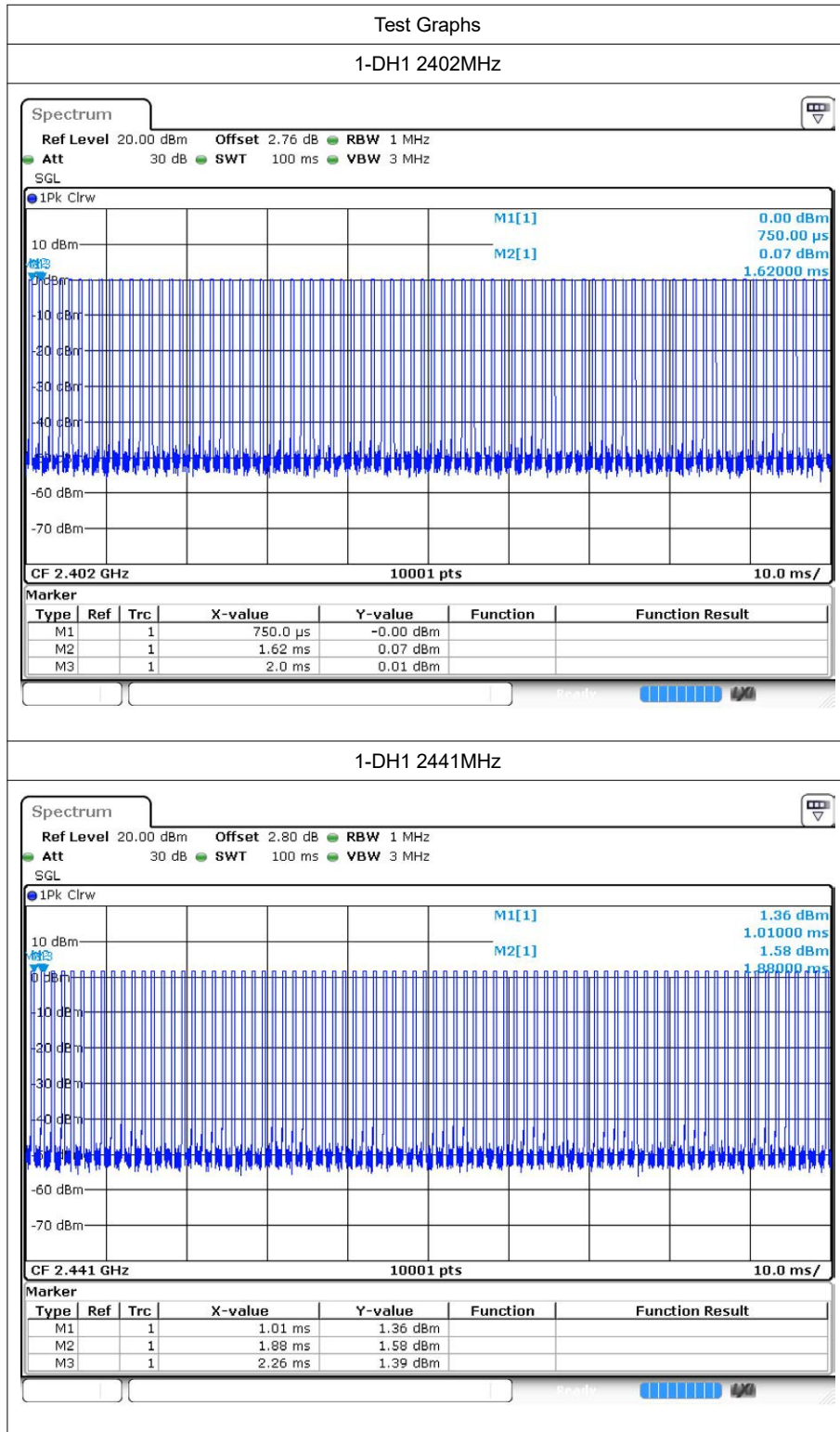
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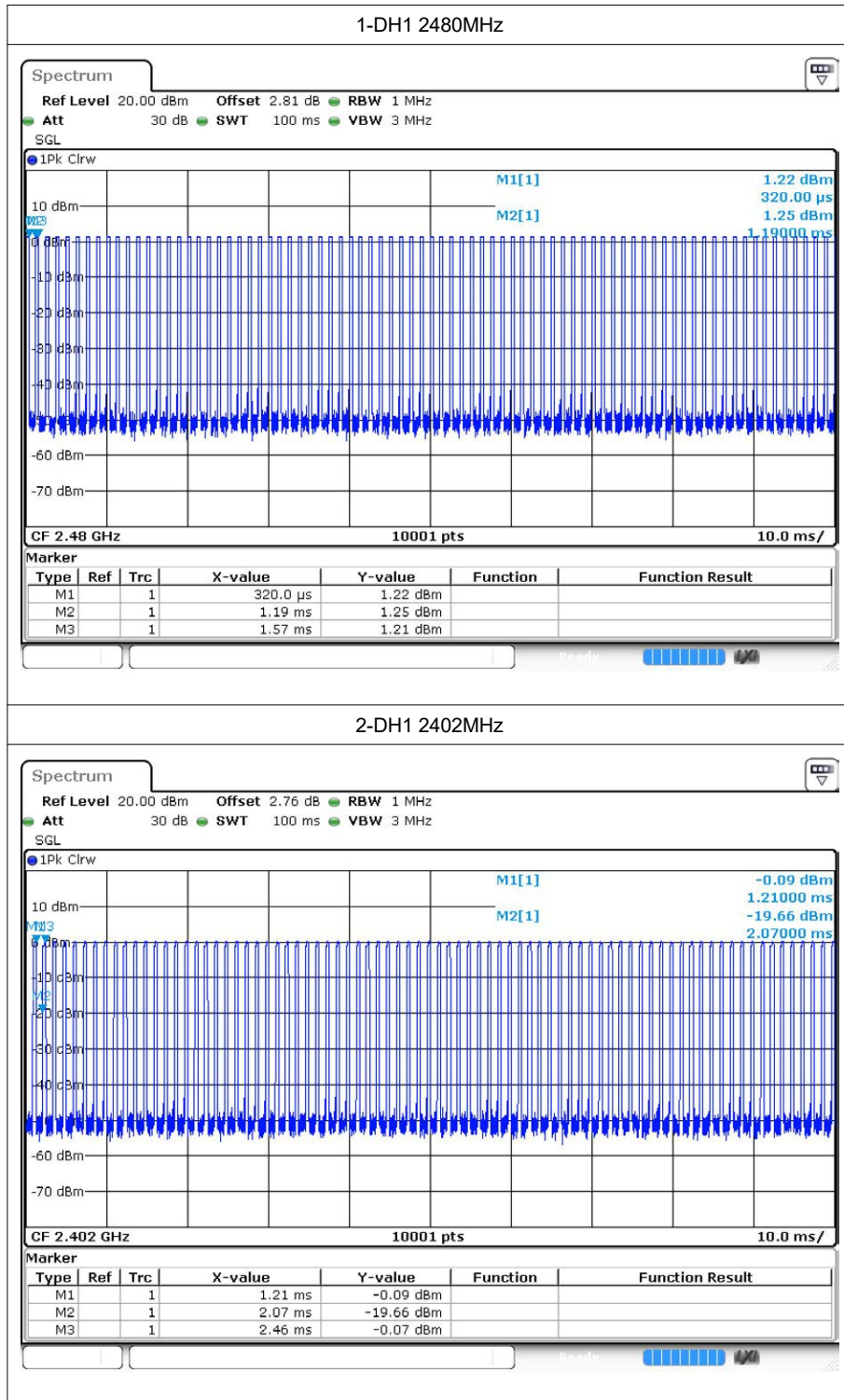
1 Duty Cycle

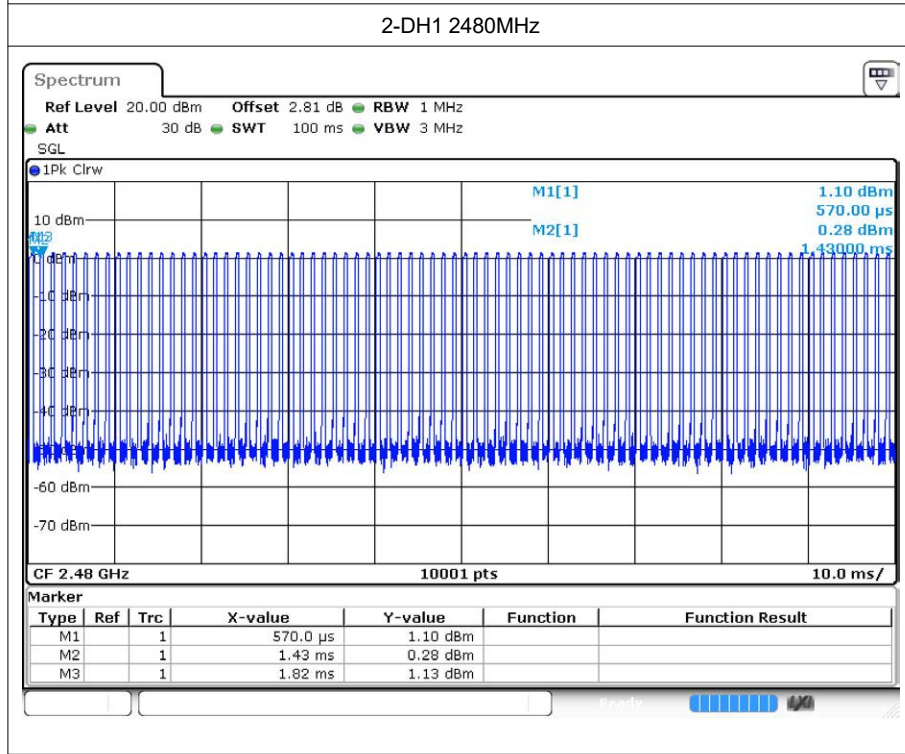
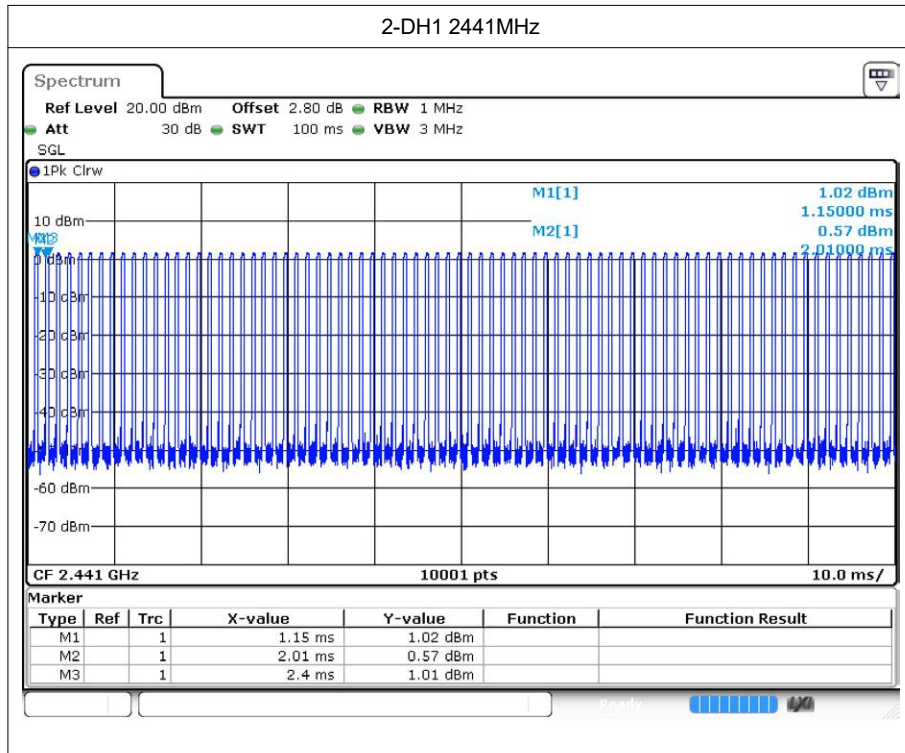
1.1 Test Result

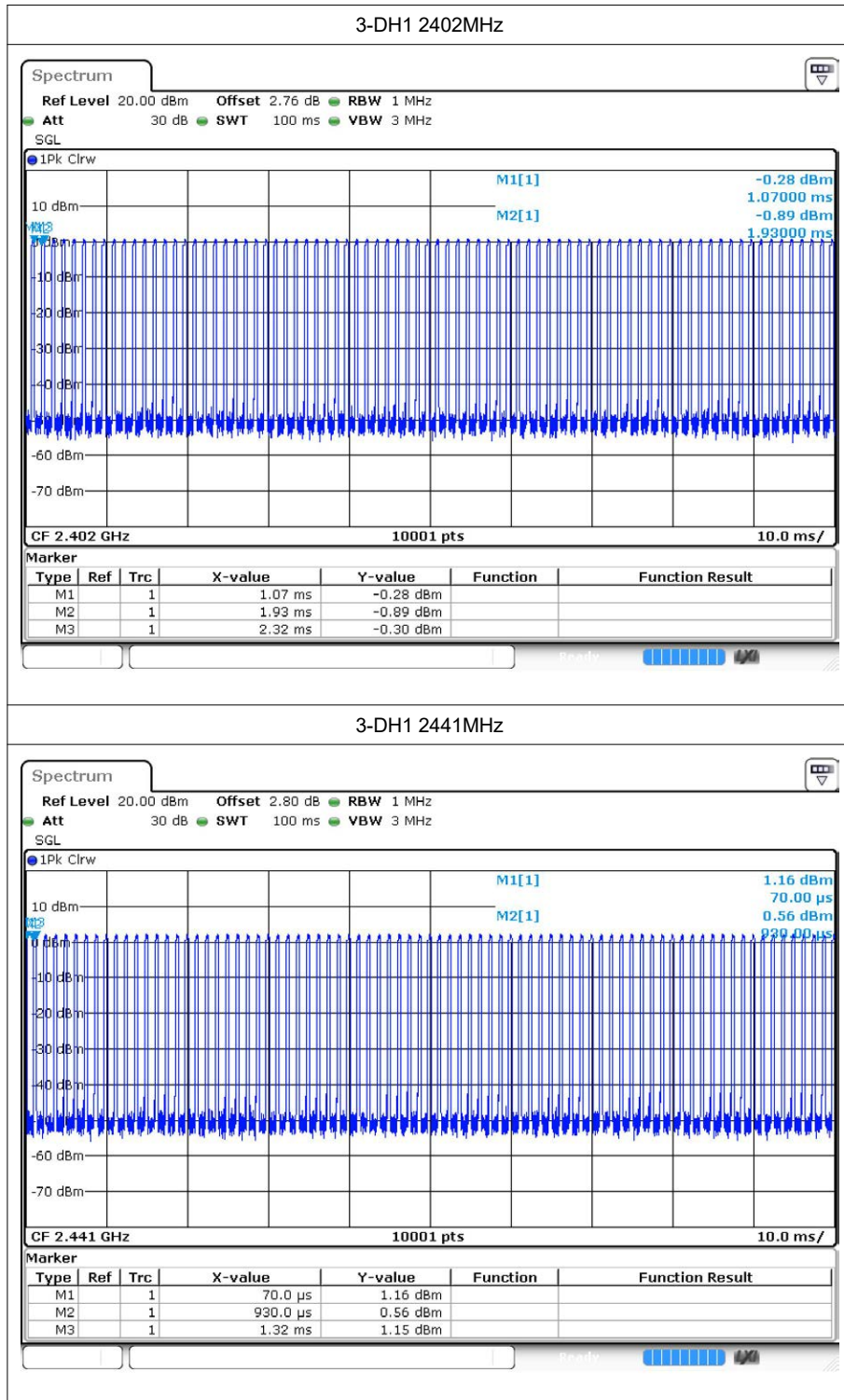
Mode	Frequency (MHz)	Duty Cycle (%)	Correction Factor	1/T (kHz)
1-DH1	2402	31.33	5.04	2.63
1-DH1	2441	31.2	5.06	2.63
1-DH1	2480	31.85	4.97	2.63
2-DH1	2402	32.05	4.94	2.56
2-DH1	2441	32	4.95	2.56
2-DH1	2480	32	4.95	2.56
3-DH1	2402	32	4.95	2.56
3-DH1	2441	32.01	4.95	2.56
3-DH1	2480	32	4.95	2.56

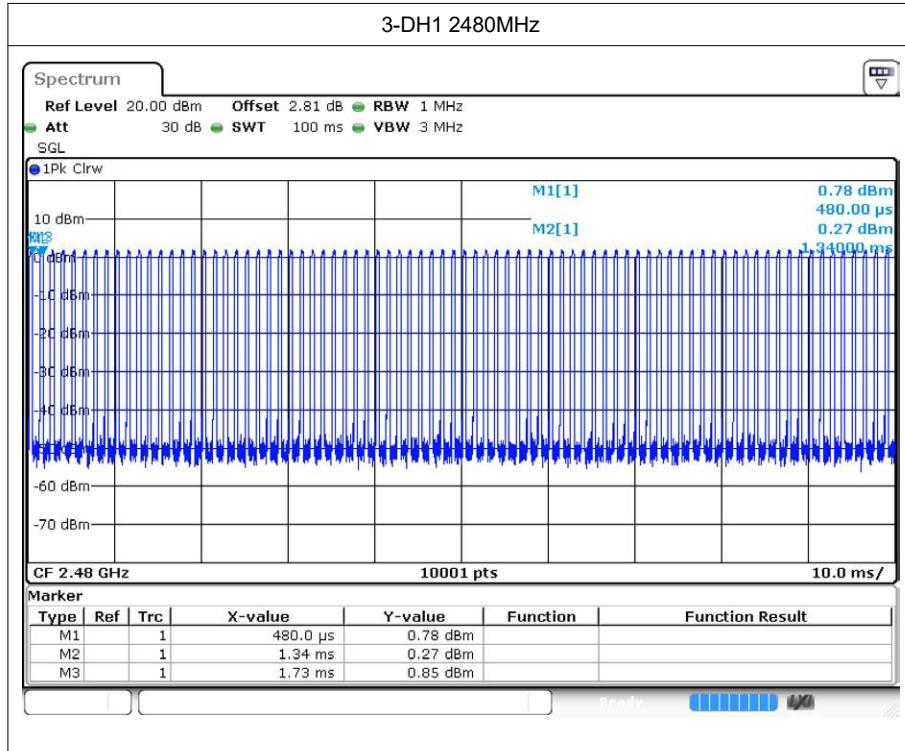
1.2 Test Graphs









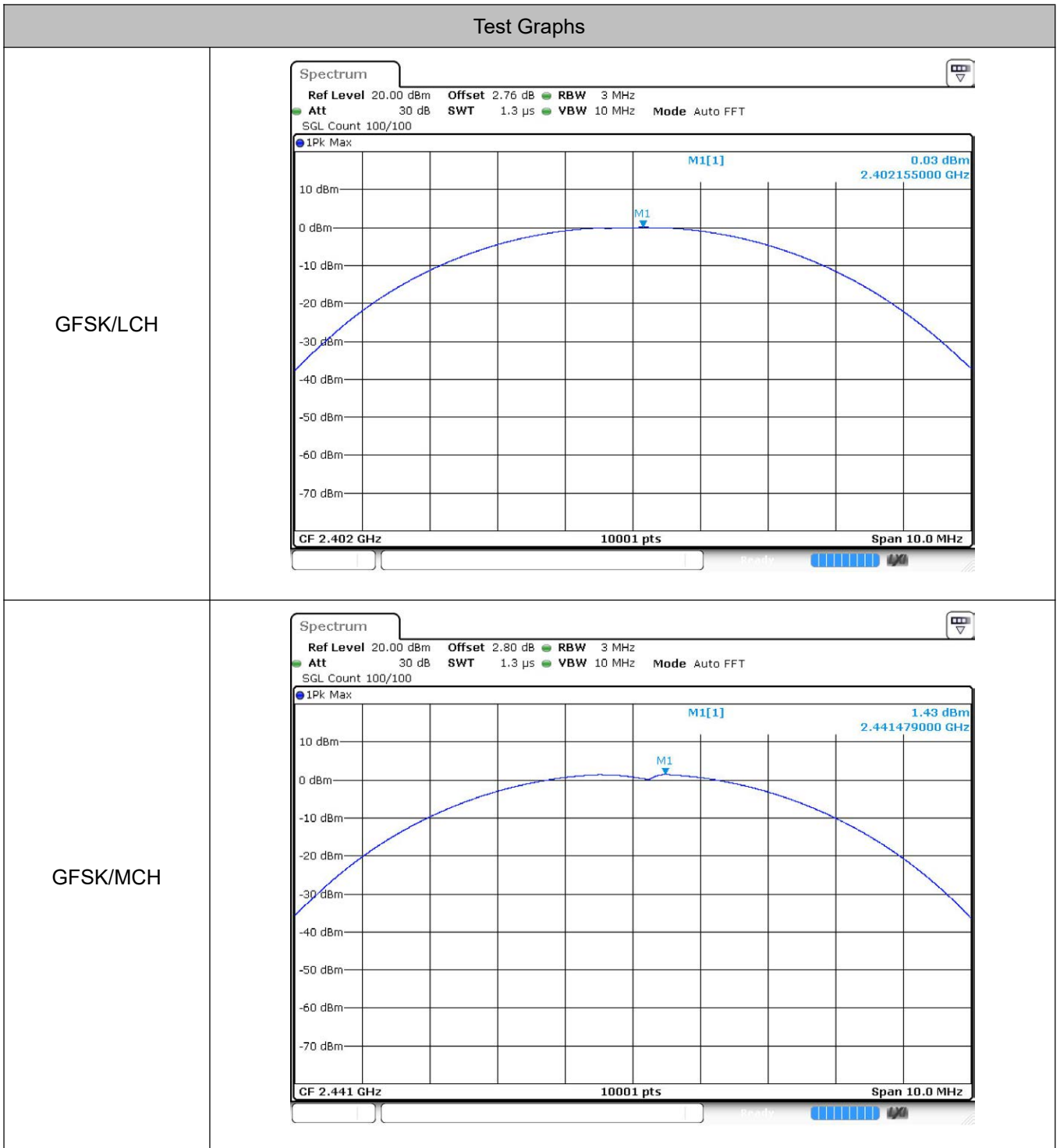


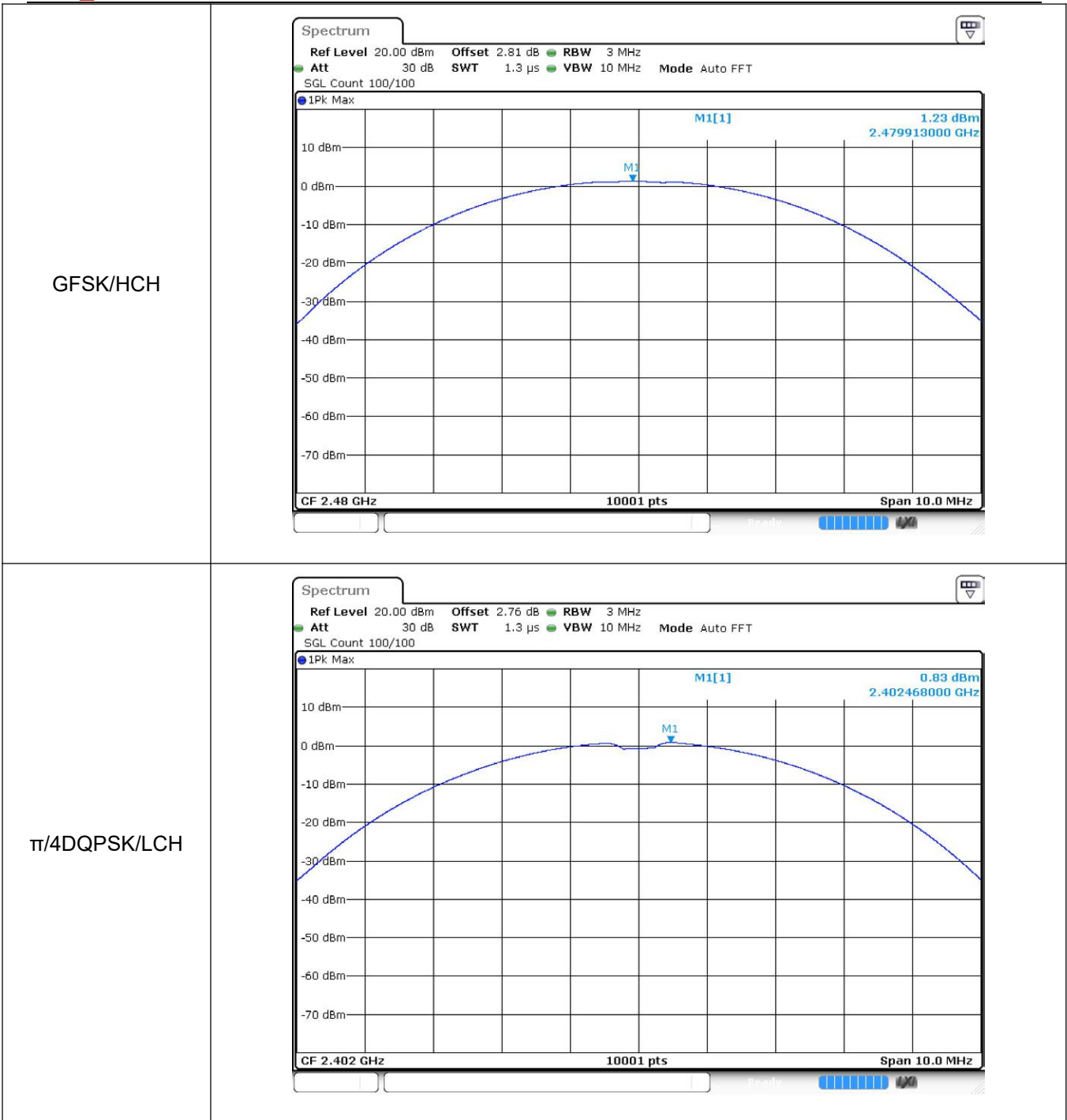
2 Maximum Conducted Peak Output Power

2.1 Test Result

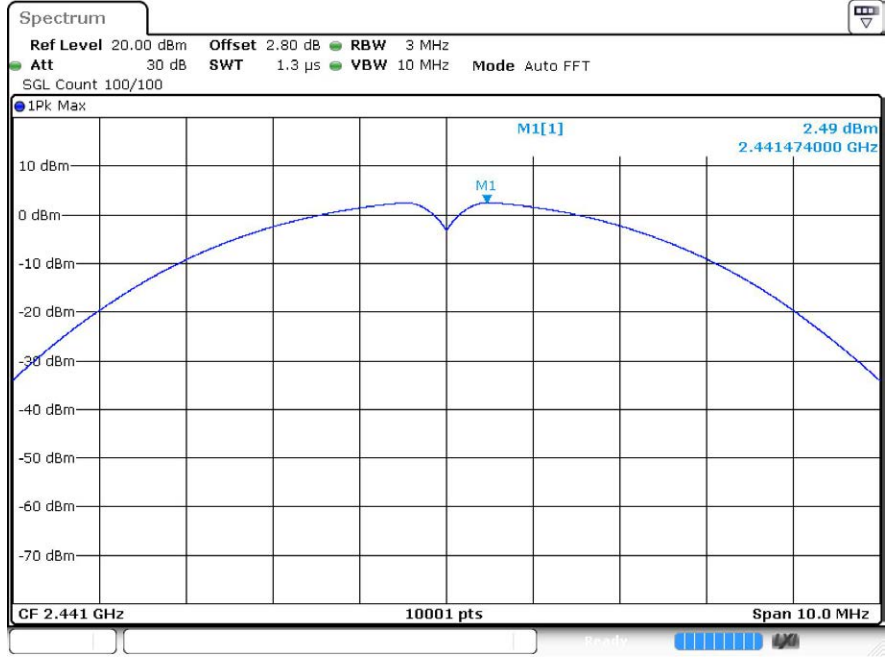
Mode	Channel.	Maximum Peak Output Power [dBm]	Limit [dBm]	Verdict
GFSK	LCH	0.03	21	Pass
	MCH	1.43	21	Pass
	HCH	1.23	21	Pass
$\pi/4$ DQPSK	LCH	0.83	21	Pass
	MCH	2.49	21	Pass
	HCH	2.27	21	Pass
8DPSK	LCH	1.32	21	Pass
	MCH	2.76	21	Pass
	HCH	2.1	21	Pass

2.2 Test Graphs

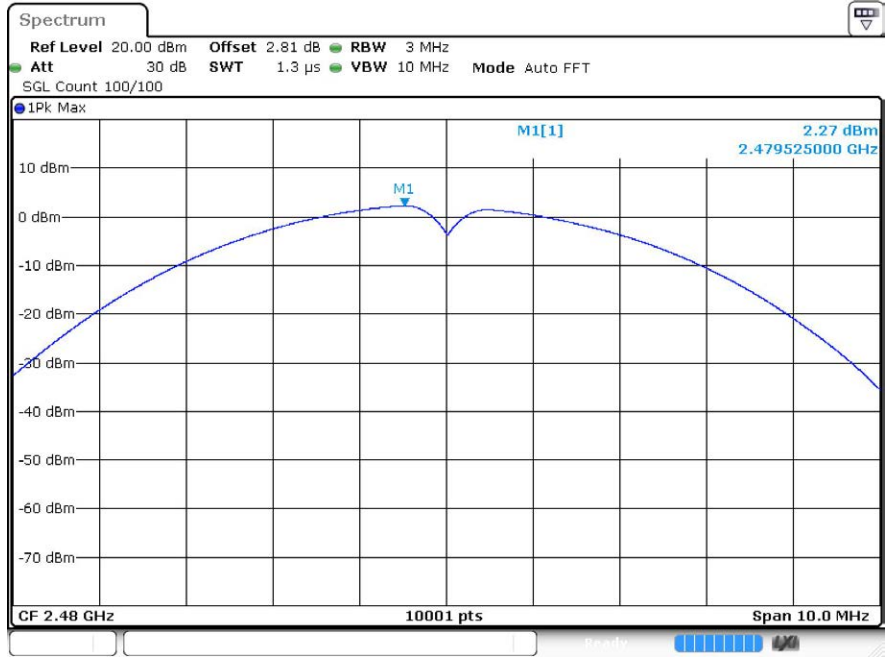


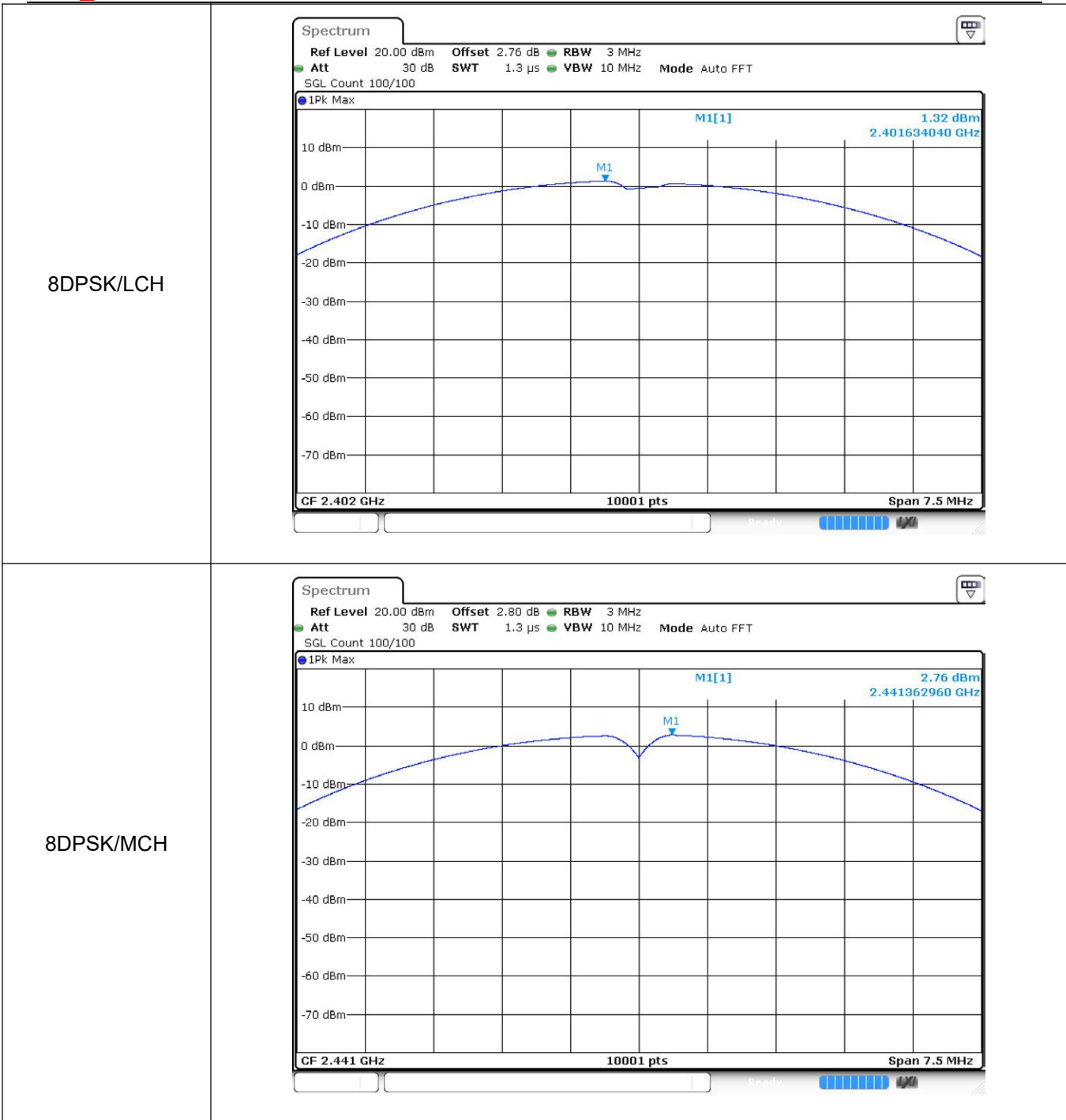


$\pi/4$ DQPSK/MCH

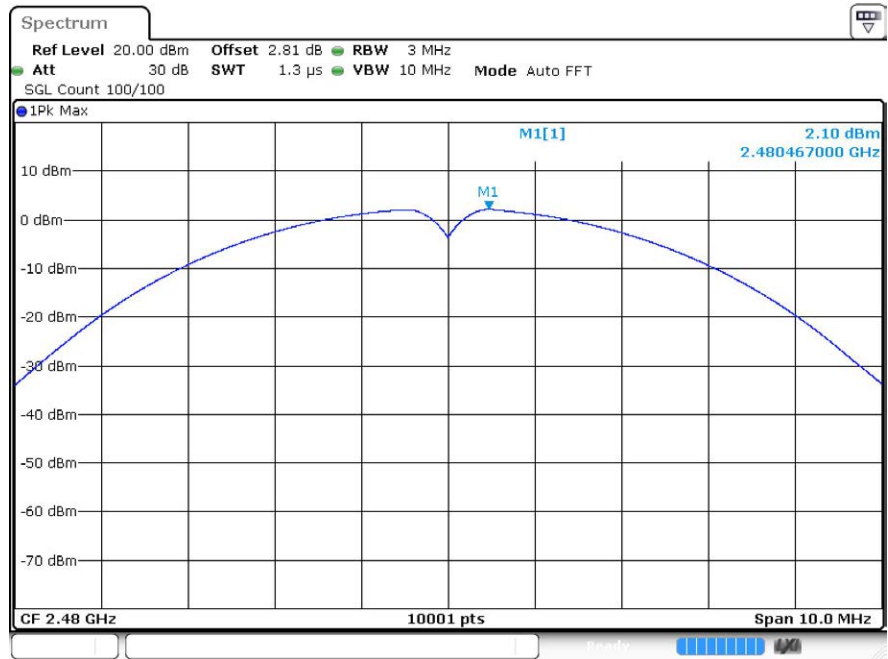


$\pi/4$ DQPSK/HCH





8DPSK/HCH

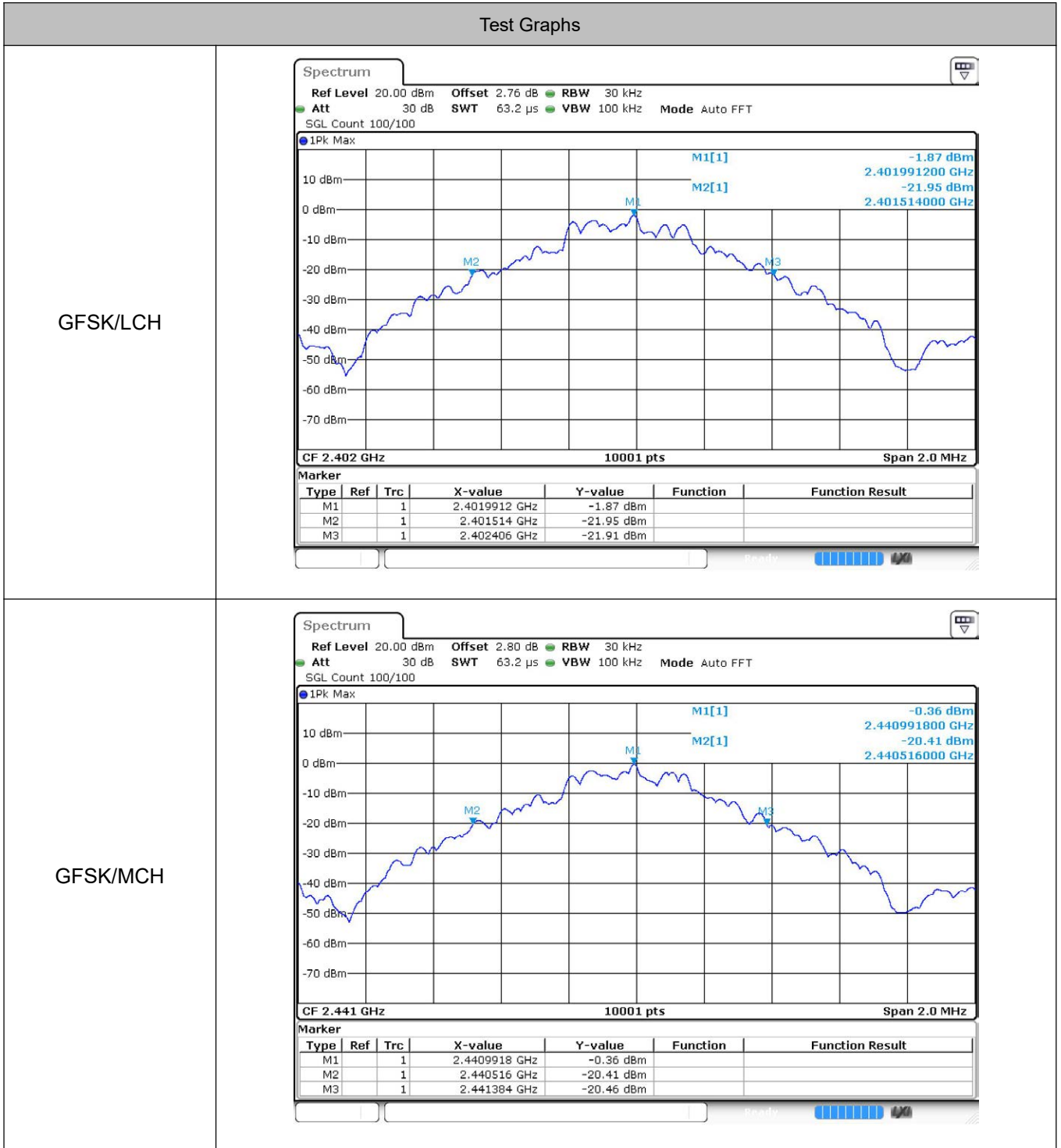


3 20dB Bandwidth

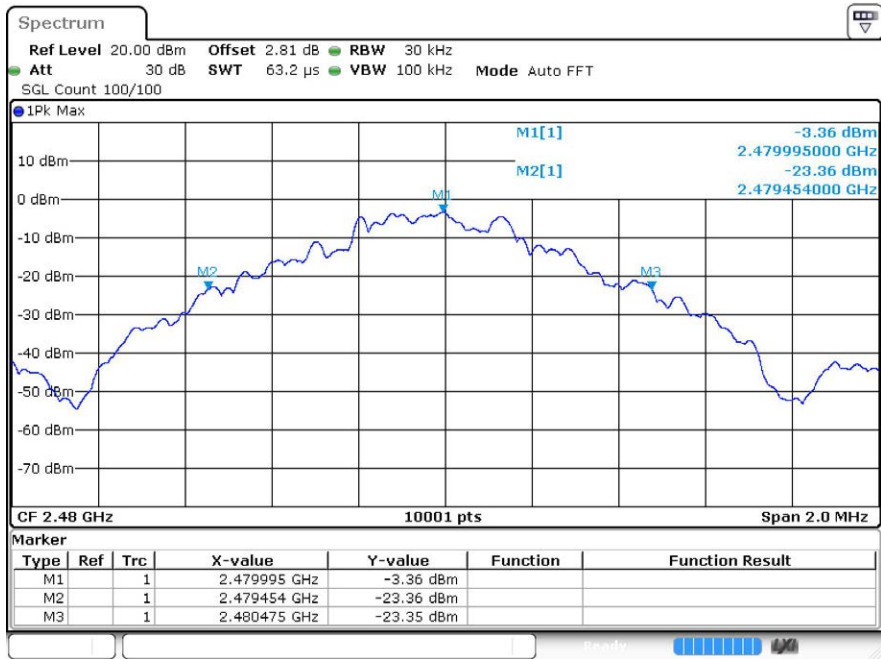
3.1 Test Result

Mode	Channel.	20dB Bandwidth [MHz]	Limit [MHz]	Verdict
GFSK	LCH	0.891	Not Specified	Pass
	MCH	0.867	Not Specified	Pass
	HCH	1.021	Not Specified	Pass
$\pi/4$ DQPSK	LCH	1.398	Not Specified	Pass
	MCH	1.425	Not Specified	Pass
	HCH	1.395	Not Specified	Pass
8DPSK	LCH	1.406	Not Specified	Pass
	MCH	1.436	Not Specified	Pass
	HCH	1.423	Not Specified	Pass

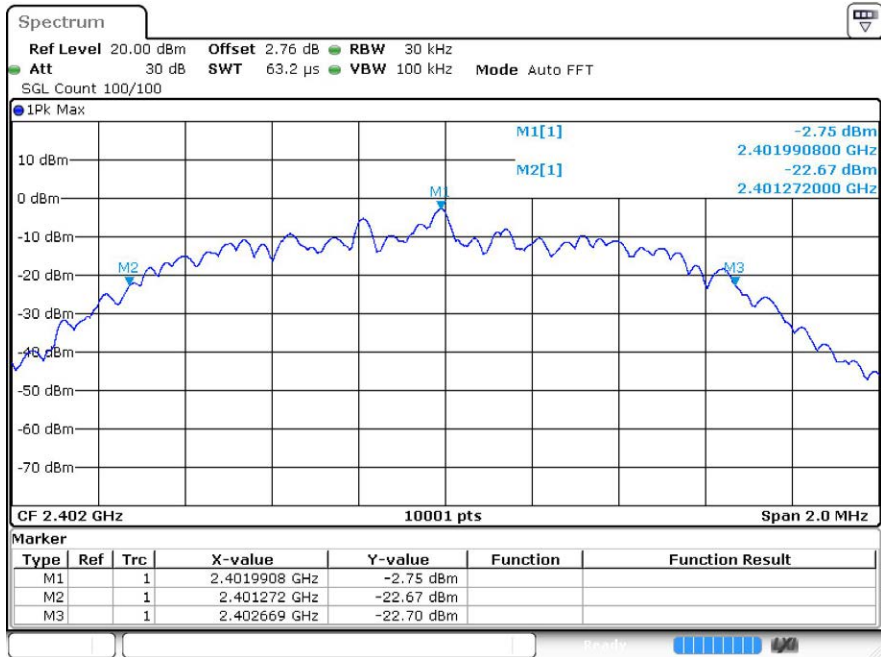
3.2 Test Graphs



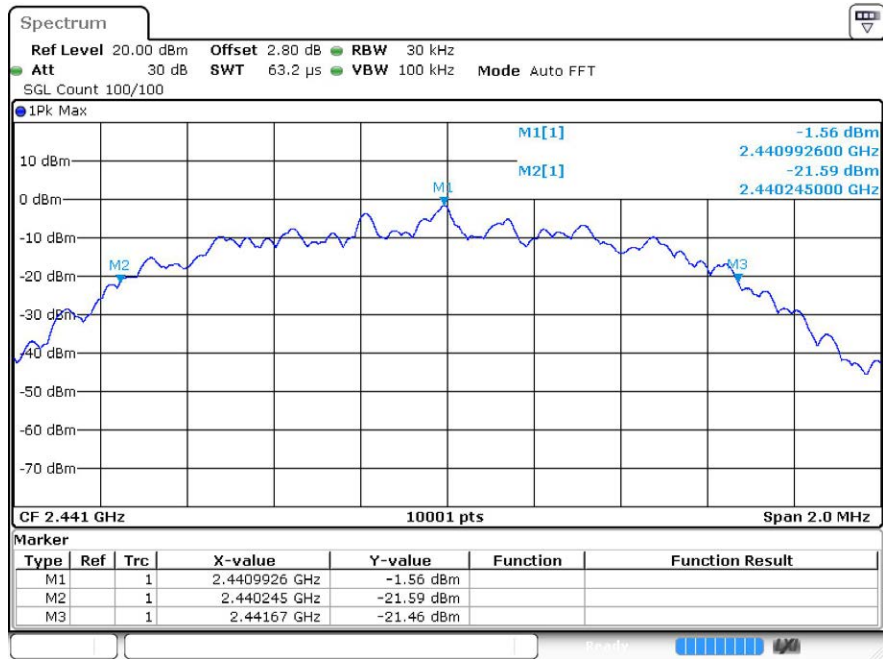
GFSK/HCH



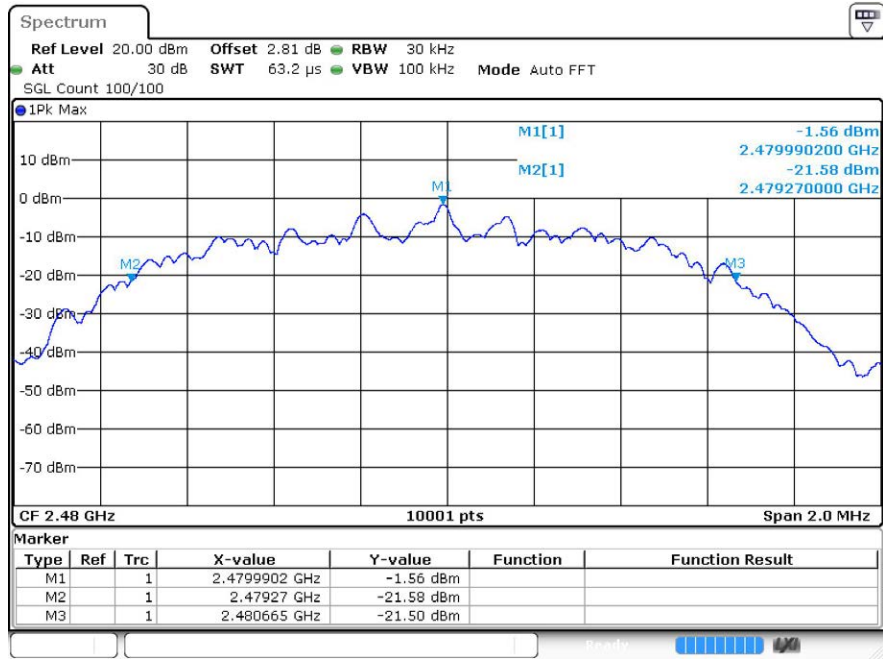
$\pi/4$ DQPSK/LCH



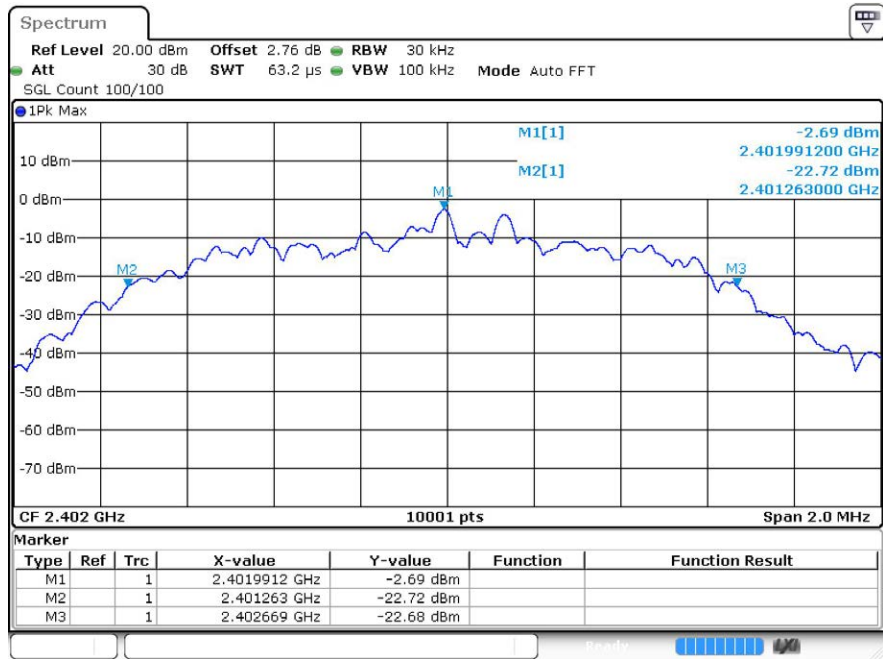
$\pi/4$ DQPSK/MCH



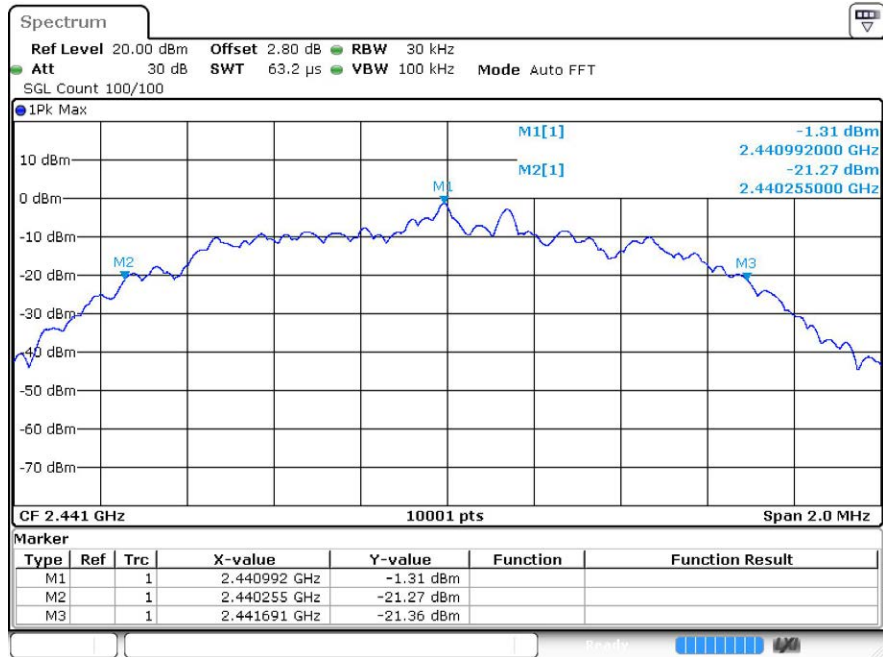
$\pi/4$ DQPSK/HCH



8DPSK/LCH

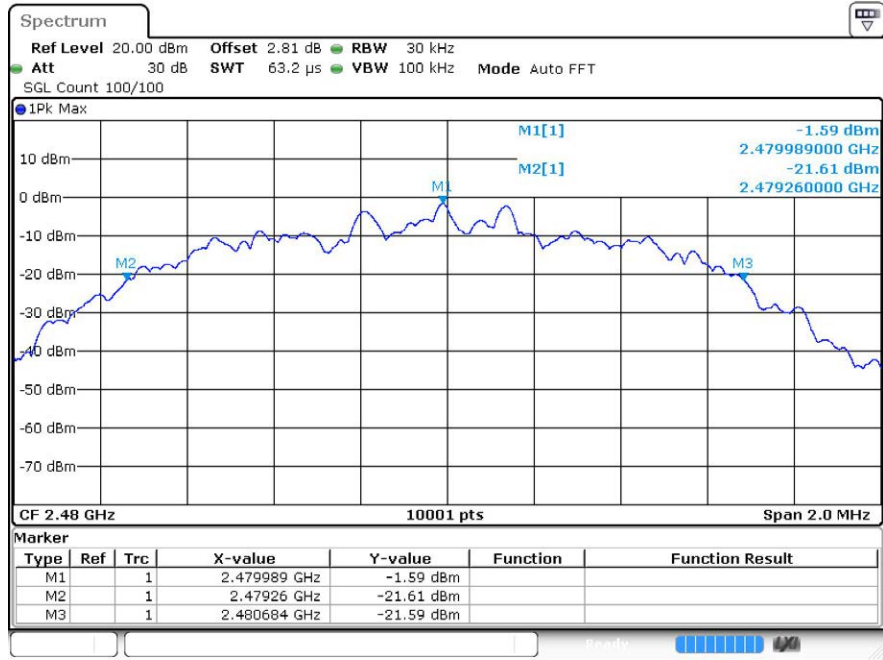


8DPSK/MCH





8DPSK/HCH

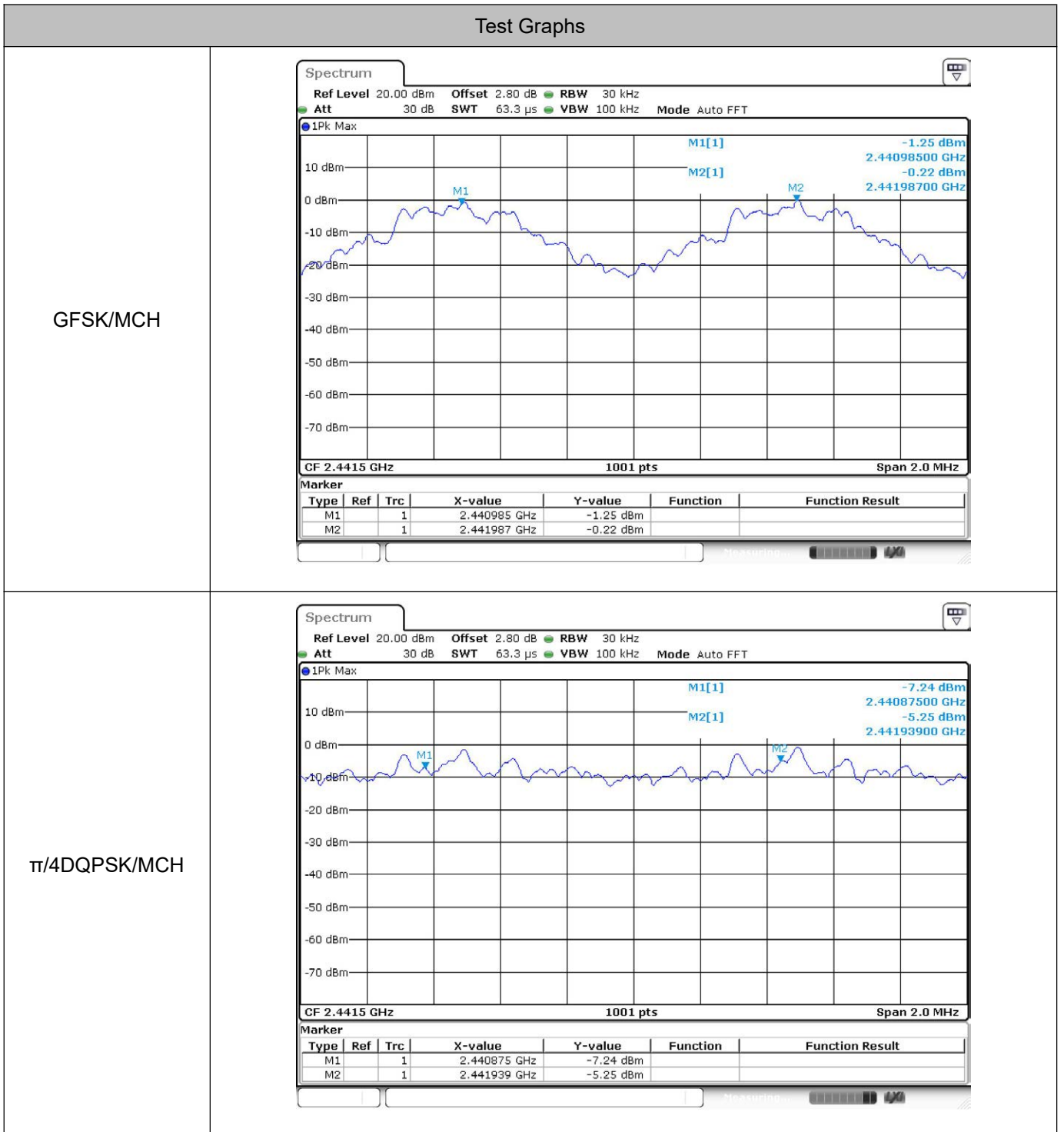


4 Carrier Frequency Separation

4.1 Test Result

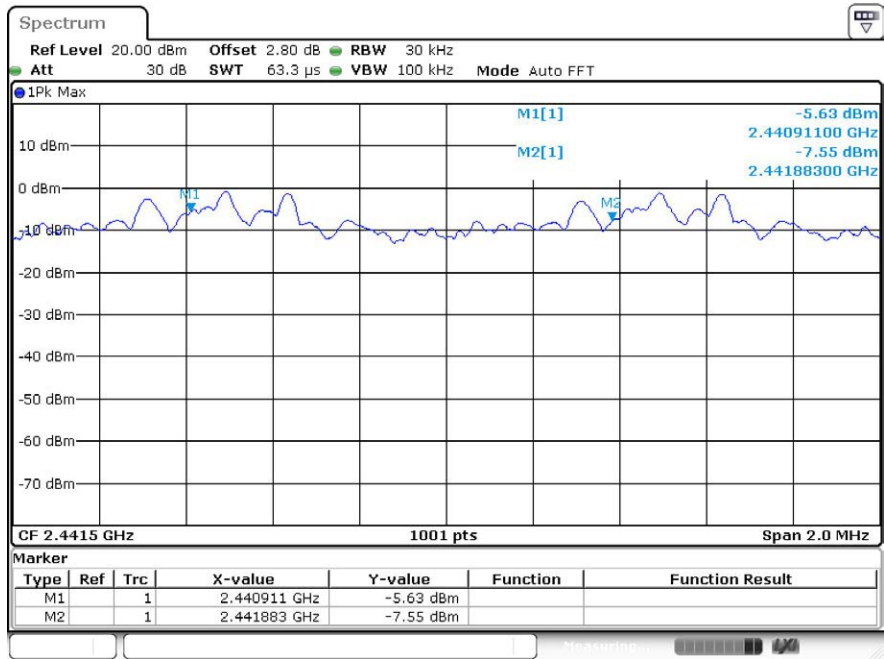
Mode	Channel.	Carrier Frequency Separation [MHz]	Limit [MHz]	Verdict
GFSK	MCH	1.002	0.578	Pass
$\pi/4$ DQPSK	MCH	1.064	0.95	Pass
8DPSK	MCH	0.972	0.957	Pass

4.2 Test Graphs





8DPSK/MCH

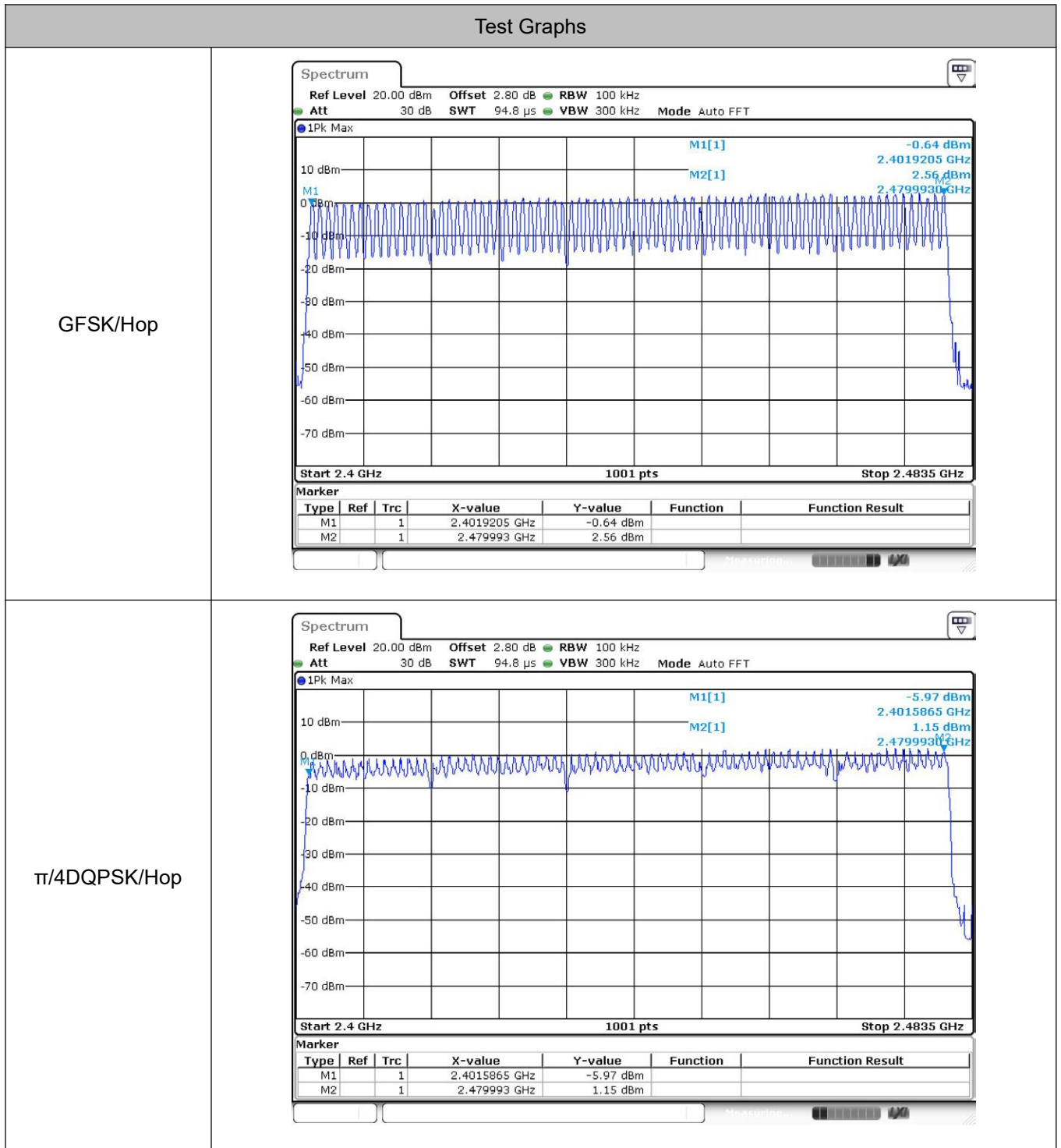


5 Hopping Channel Number

5.1 Test Result

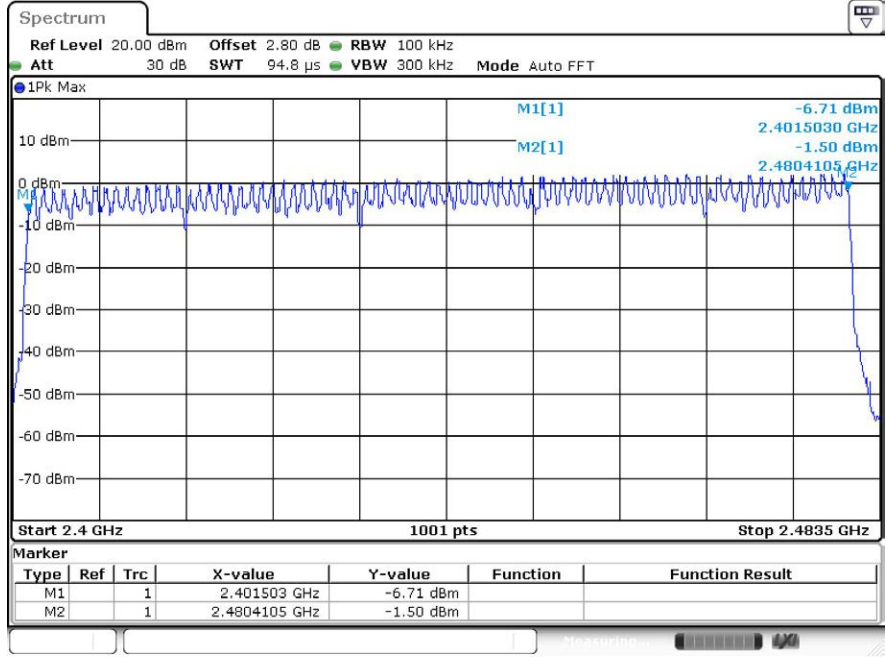
Mode	Channel.	Number of Hopping Channel [N]	Limit [N]	Verdict
GFSK	Hop	79	≥ 15	PASS
$\pi/4$ DQPSK	Hop	79	≥ 15	PASS
8DPSK	Hop	79	≥ 15	PASS

5.2 Test Graphs





8DPSK/Hop

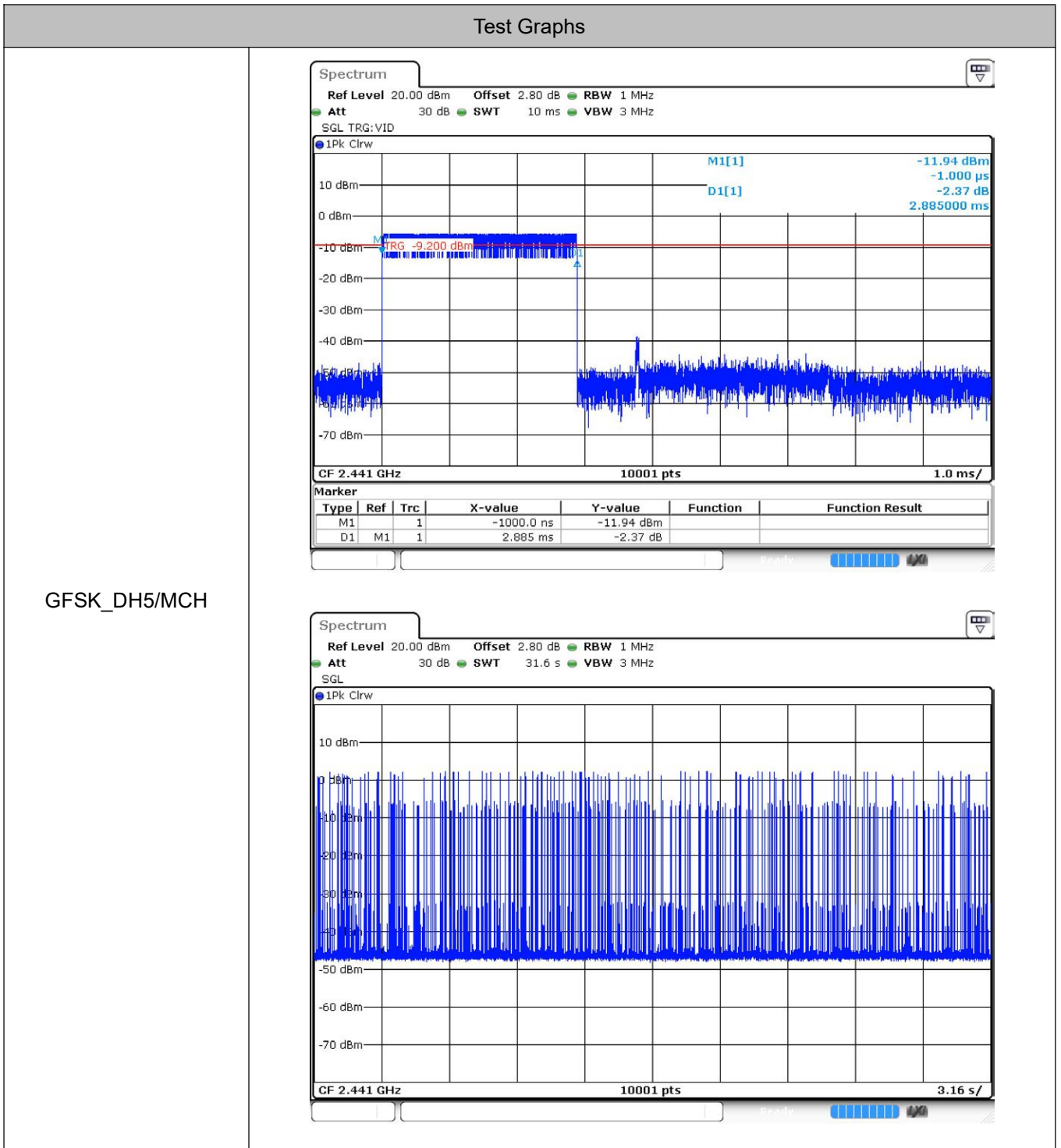


6 Dwell Time

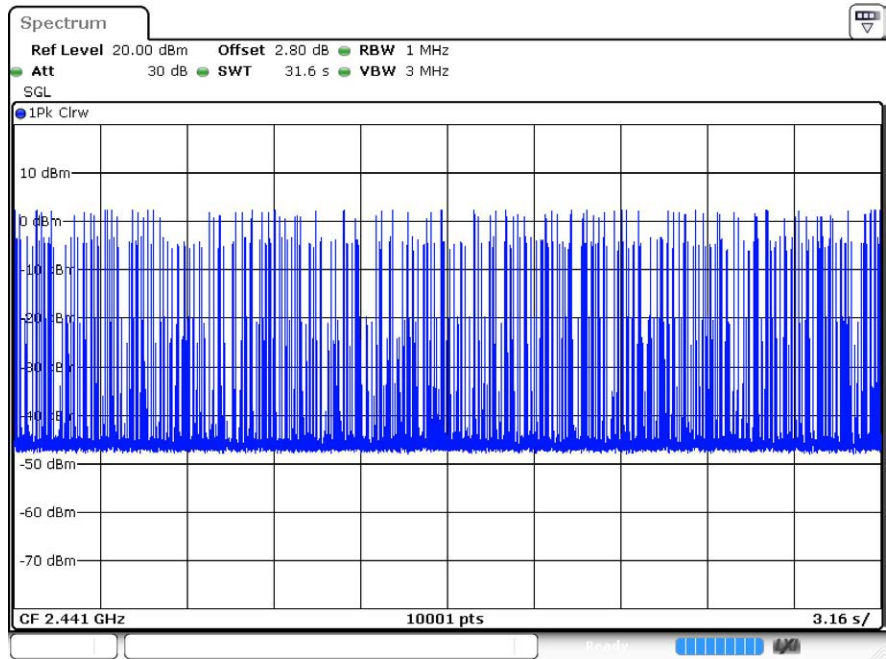
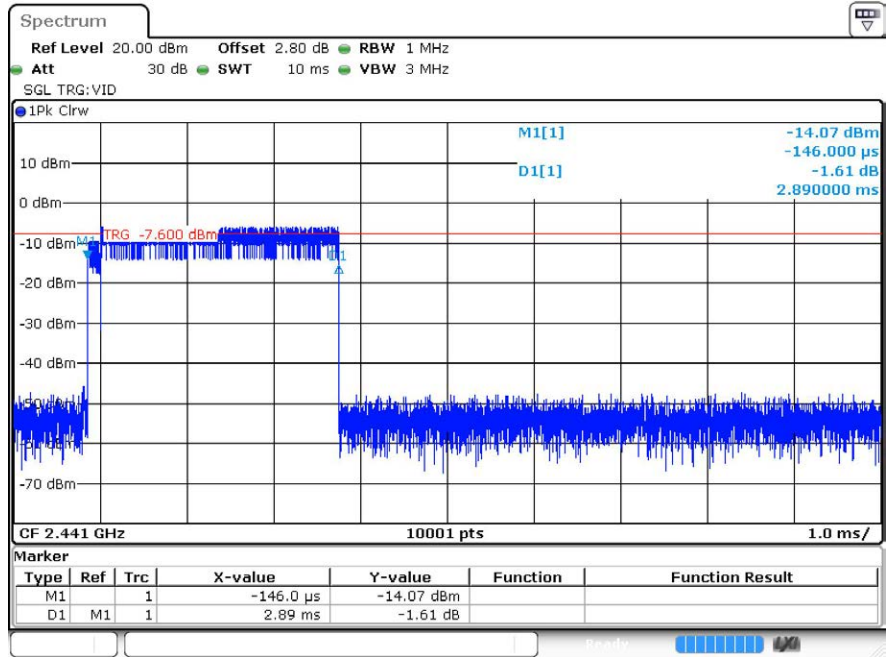
6.1 Test Result

Mode	Packet	Channel	Burst Width [ms/hop/ch]	Total Hops[hop*ch]	Dwell Time[ms]	Limit [s]	Verdict
GFSK	DH5	MCH	2.885	116	334.66	0.4	Pass
$\pi/4$ DQPSK	2DH5	MCH	2.89	106	306.34	0.4	Pass
8DPSK	3DH5	MCH	2.891	98	283.318	0.4	Pass

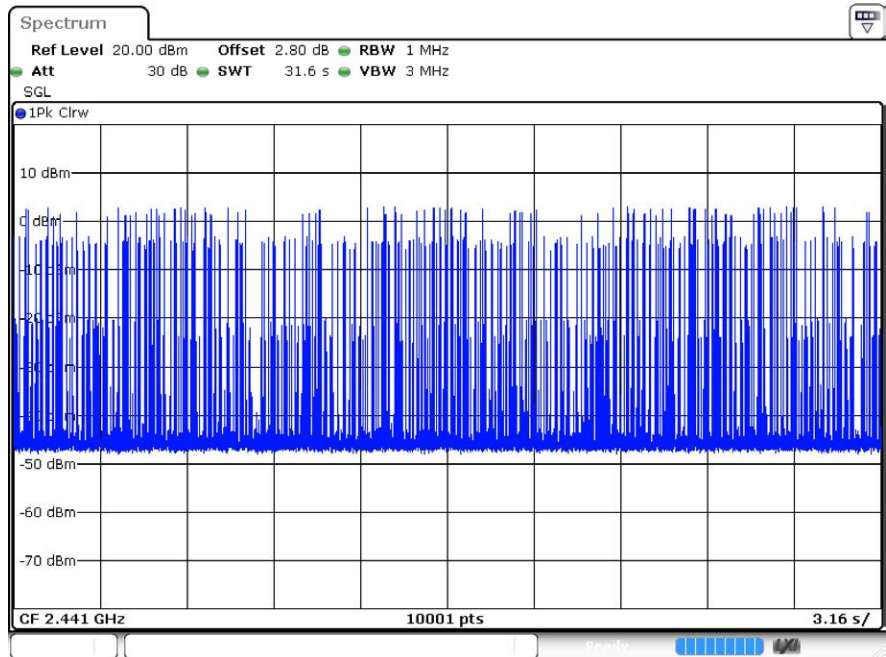
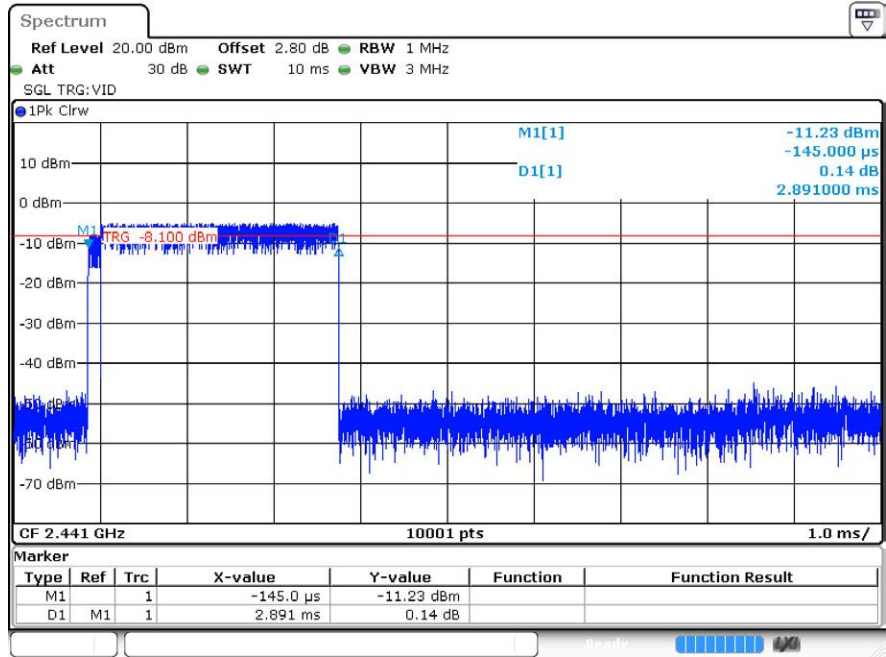
6.2 Test Graphs



$\pi/4$ DQPSK
_2DH5/MCH



8DPSK_3DH5/MCH

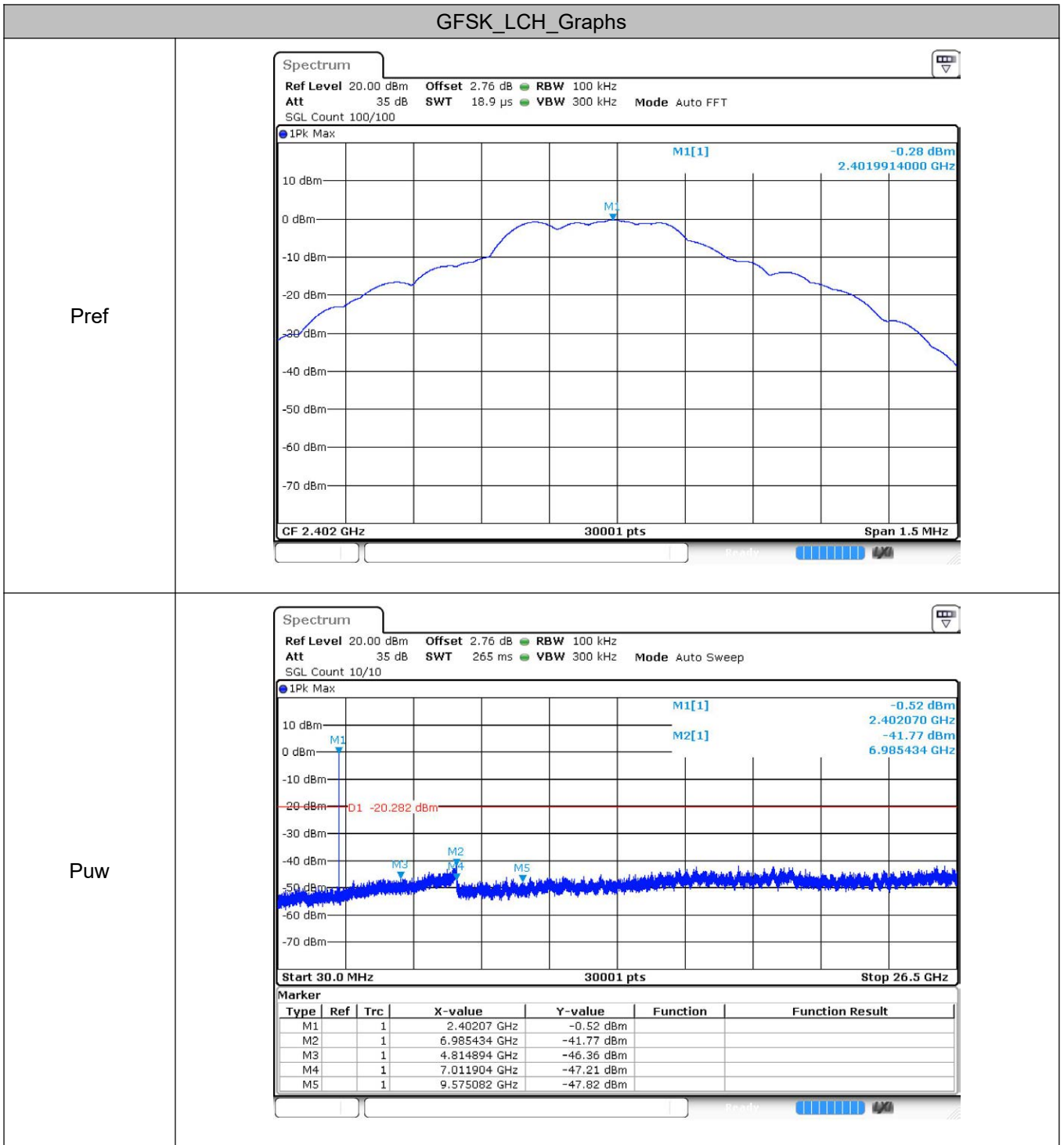


7 RF Conducted Spurious Emissions

7.1 Test Result

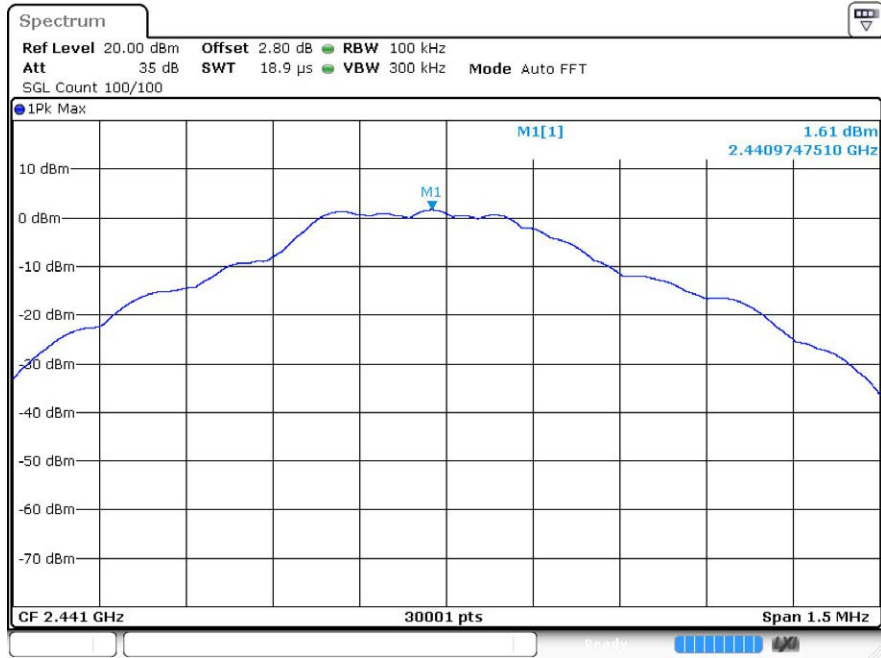
Mode	Channel	Max. Level [dBc]	Limit [dBc]	Verdict
GFSK	LCH	-41.49	-20	Pass
	MCH	-43.36	-20	Pass
	HCH	-41.74	-20	Pass
$\pi/4$ DQPSK	LCH	-38.95	-20	Pass
	MCH	-41.63	-20	Pass
	HCH	-41.15	-20	Pass
8DPSK	LCH	-40.32	-20	Pass
	MCH	-42.4	-20	Pass
	HCH	-41.58	-20	Pass

7.2 Test Graphs

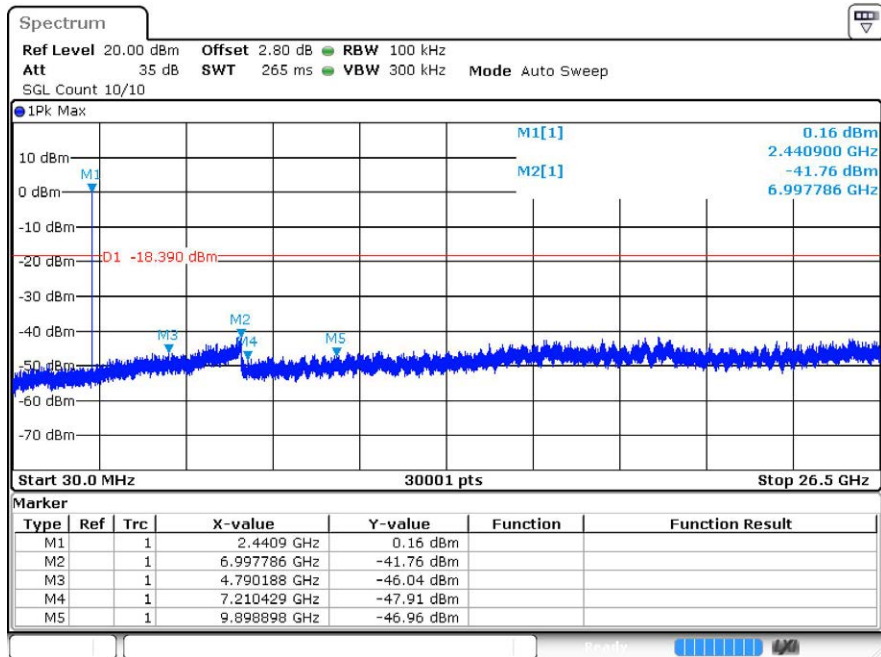


GFSK_MCH_Graphs

Pref

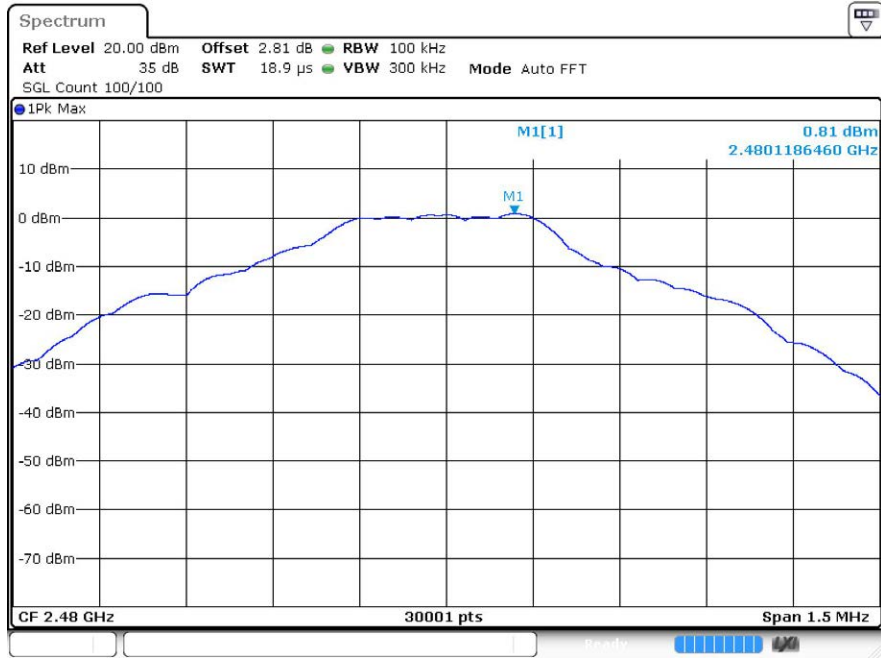


Puw



GFSK_HCH_Graphs

Pref



Puw

