

Appendix A

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

Product Name: Mini PC

Trade Mark: Huidun

Test Model: H50

Environmental Conditions

Temperature:	24.8° C
Relative Humidity:	52.6%
ATM Pressure:	100.0 kPa
Test Engineer:	Emiya lin
Supervised by:	Simba Haung



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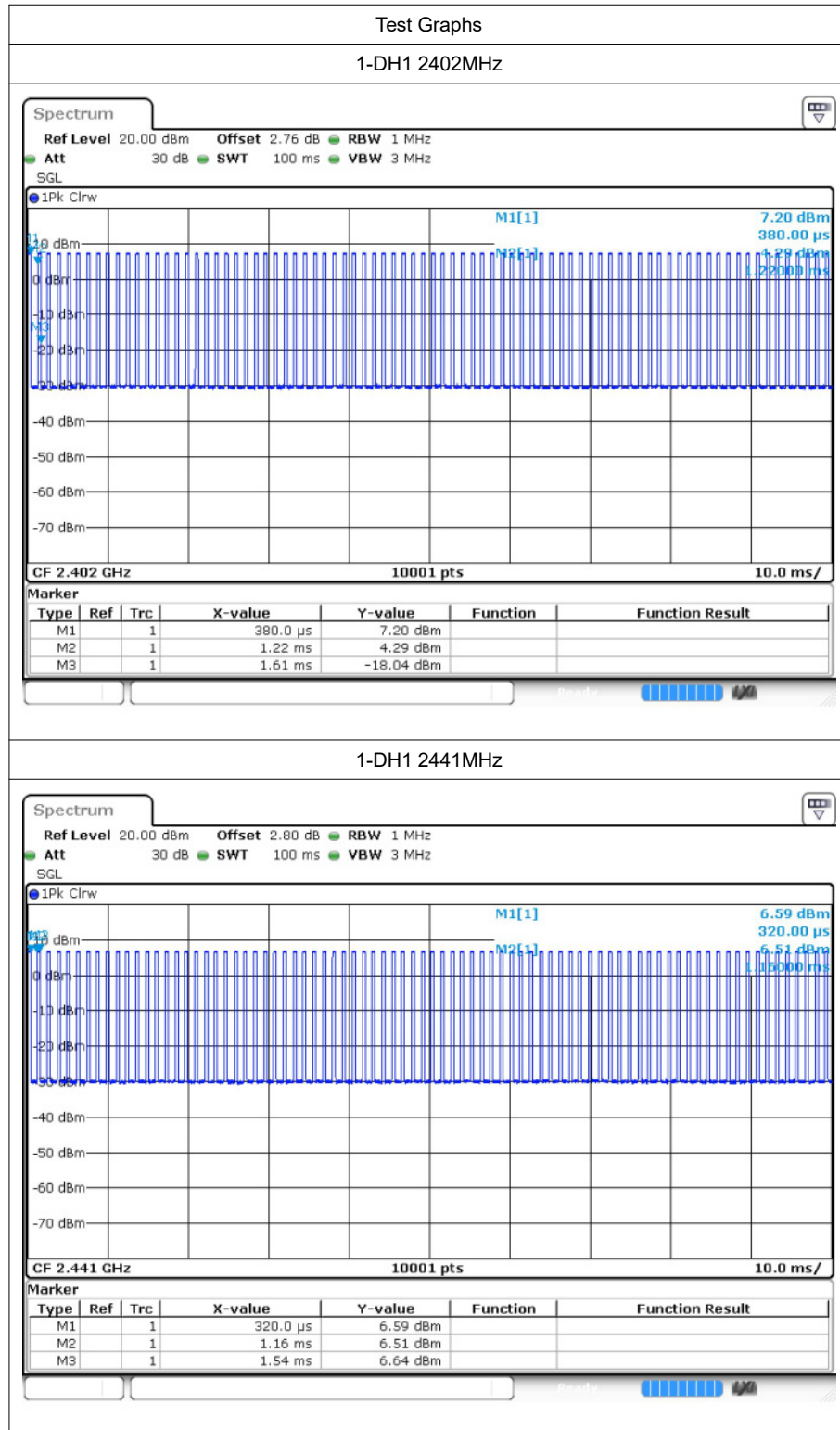
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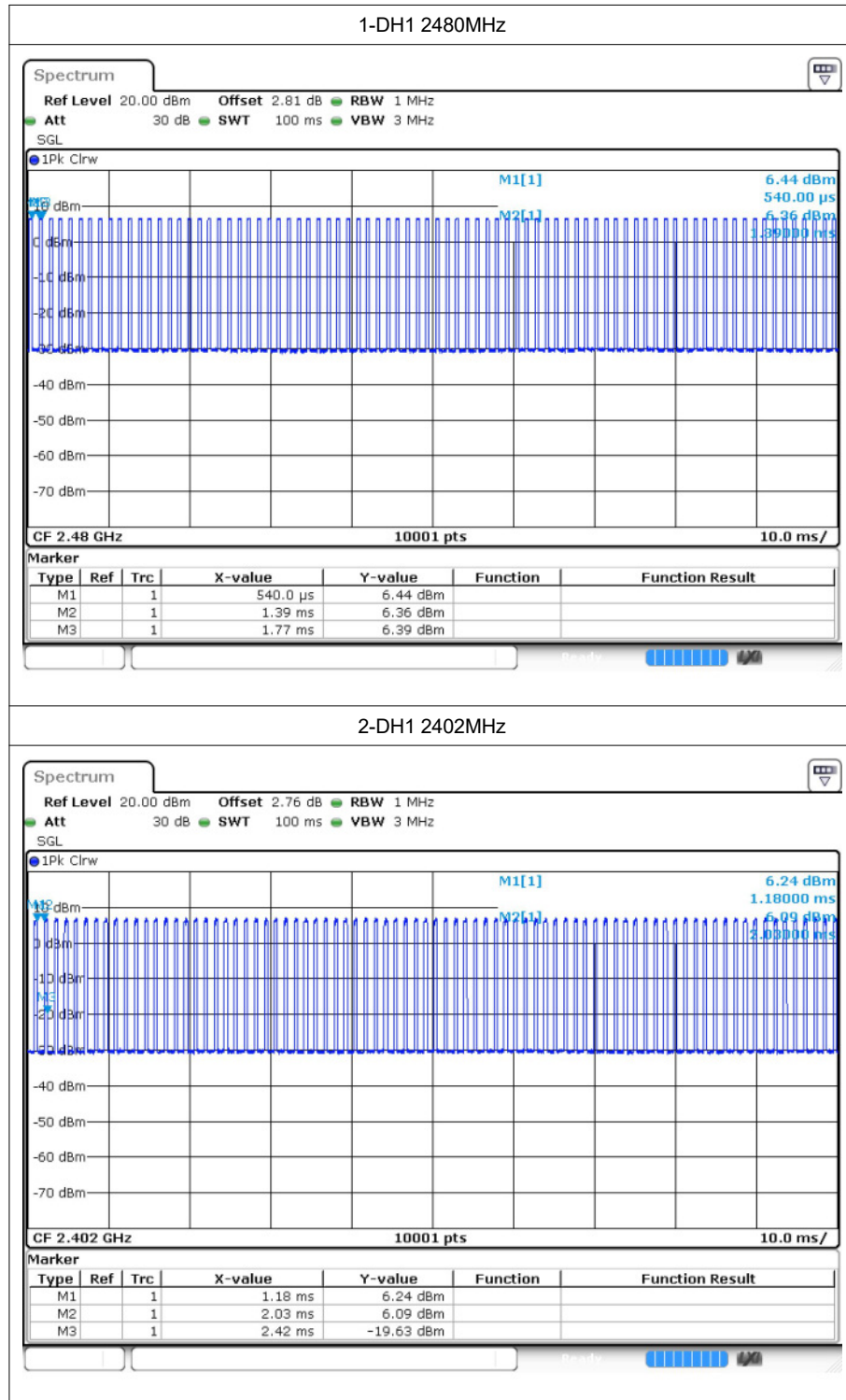
1 Duty Cycle

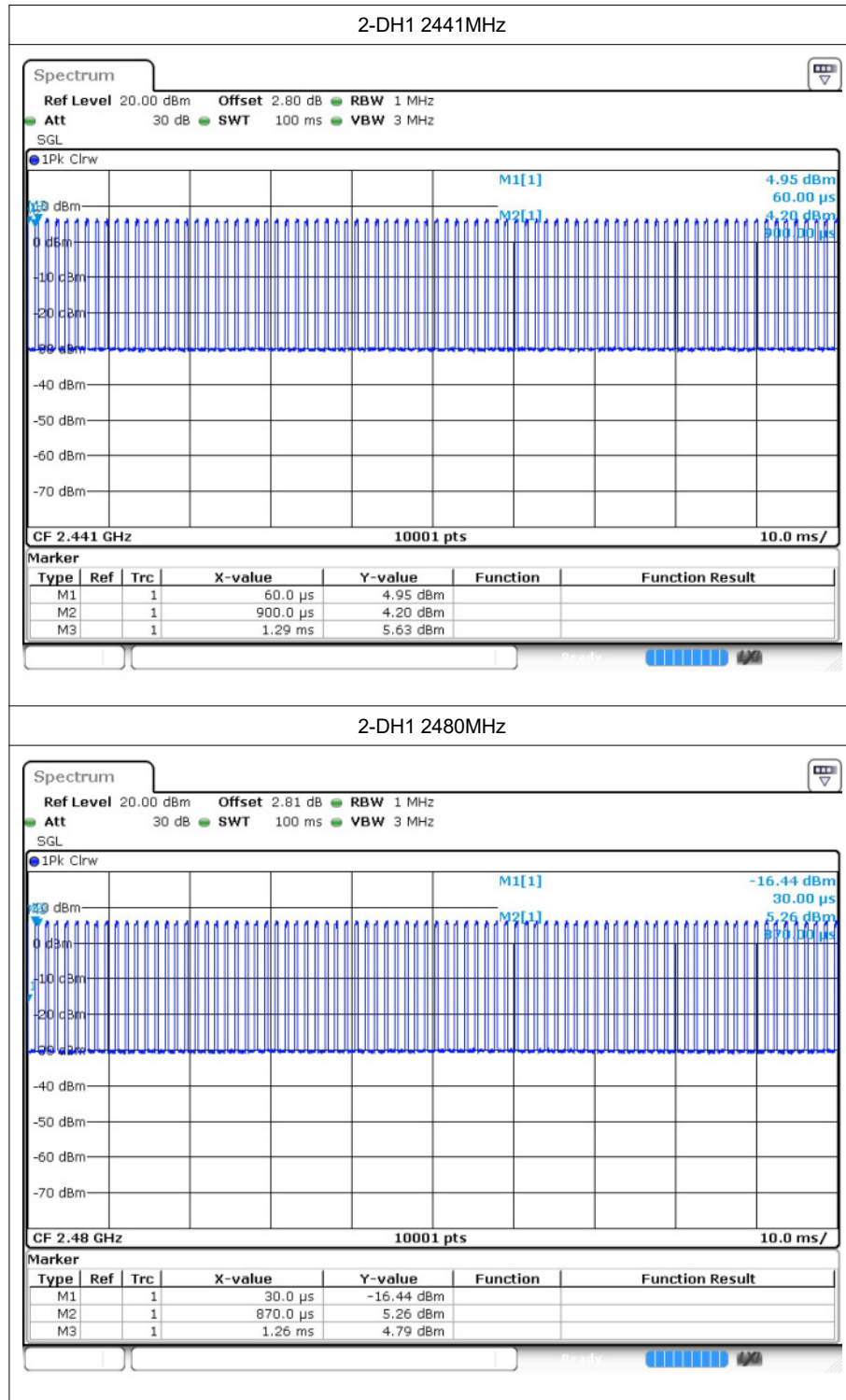
1.1 Test Result

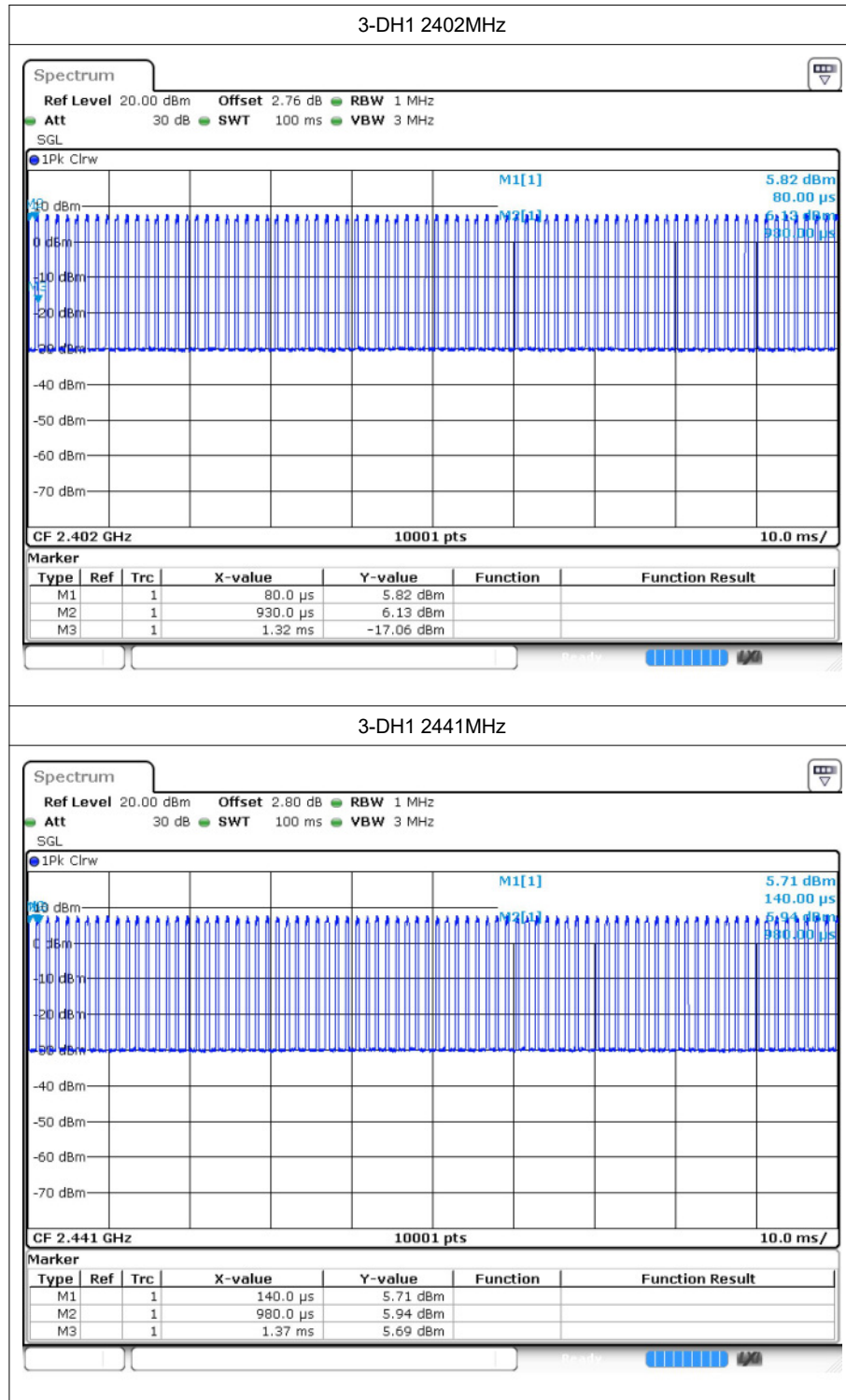
Mode	Frequency (MHz)	Duty Cycle (%)	Correction Factor	1/T (kHz)
1-DH1	2402	32.06	4.94	2.56
1-DH1	2441	32.01	4.95	2.63
1-DH1	2480	32.06	4.94	2.63
2-DH1	2402	32.33	4.9	2.56
2-DH1	2441	32.38	4.9	2.56
2-DH1	2480	32.37	4.9	2.56
3-DH1	2402	32.39	4.9	2.56
3-DH1	2441	32.38	4.9	2.56
3-DH1	2480	32.33	4.9	2.56

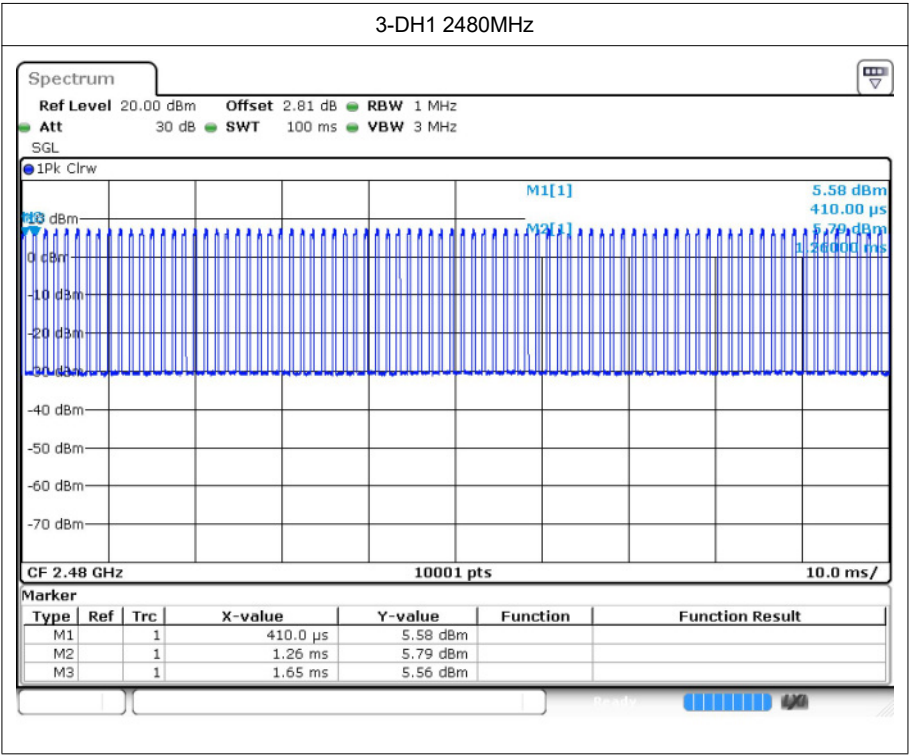
1.2 Test Graphs









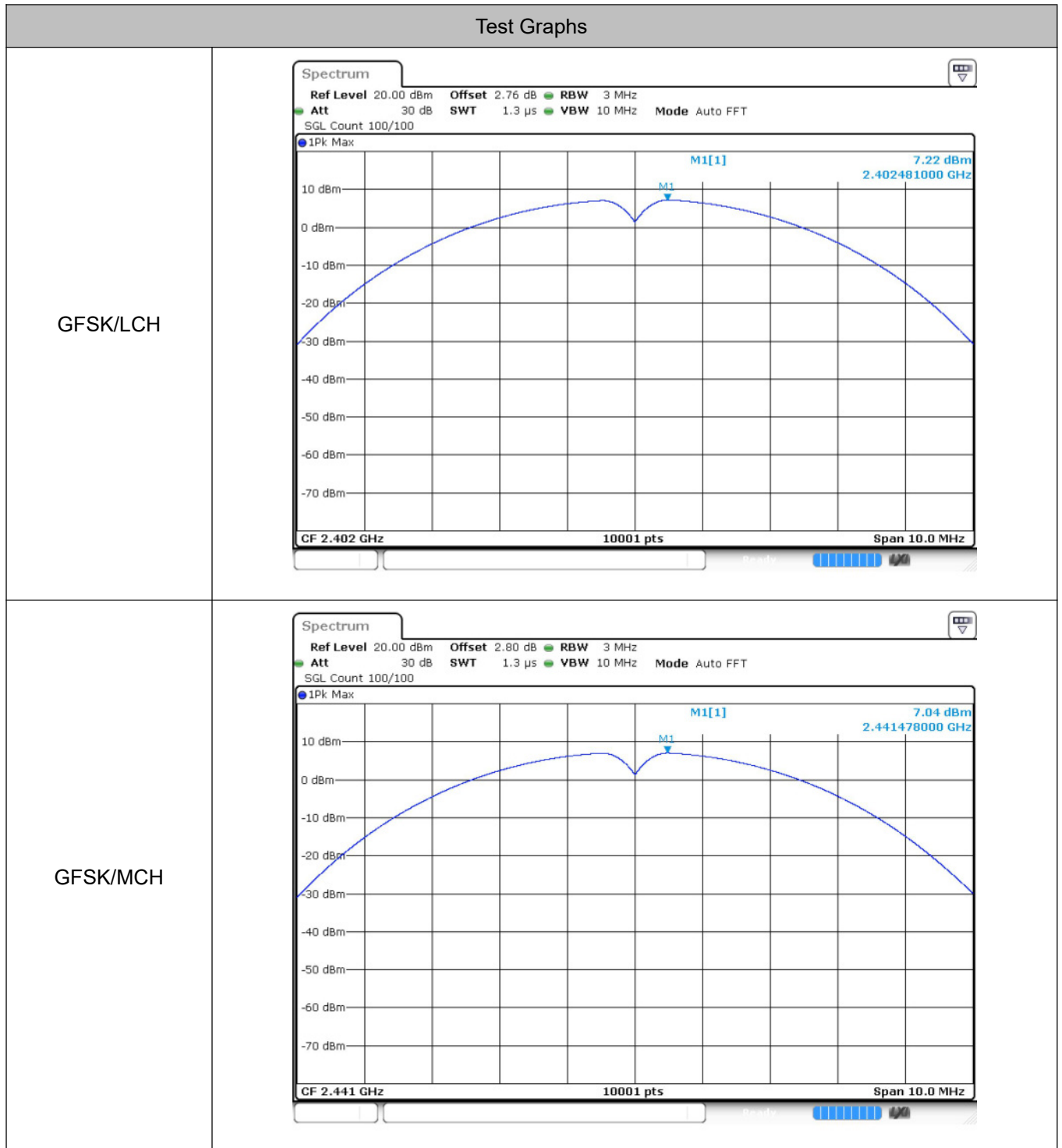


2 Maximum Conducted Peak Output Power

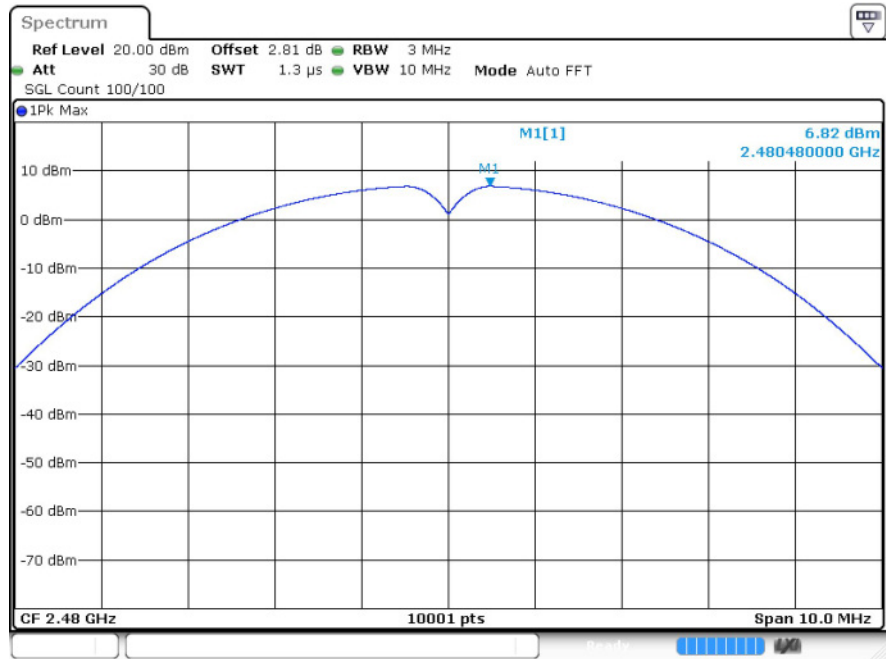
2.1 Test Result

Mode	Channel.	Maximum Peak Output Power [dBm]	Limit [dBm]	Verdict
GFSK	LCH	7.22	21	Pass
	MCH	7.04	21	Pass
	HCH	6.82	21	Pass
$\pi/4$ DQPSK	LCH	6.66	21	Pass
	MCH	6.96	21	Pass
	HCH	6.86	21	Pass
8DPSK	LCH	7.36	21	Pass
	MCH	6.59	21	Pass
	HCH	6.28	21	Pass

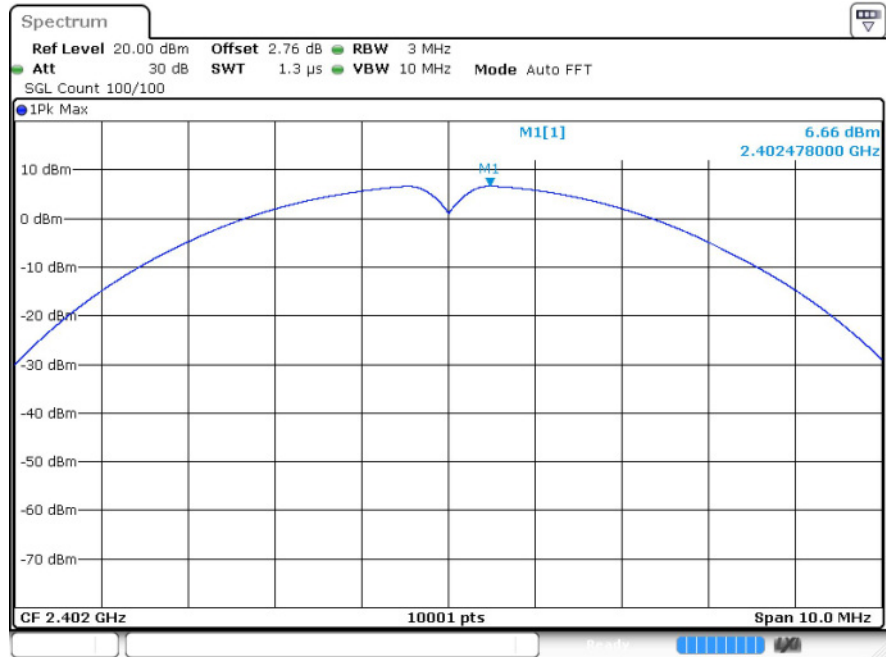
2.2 Test Graphs



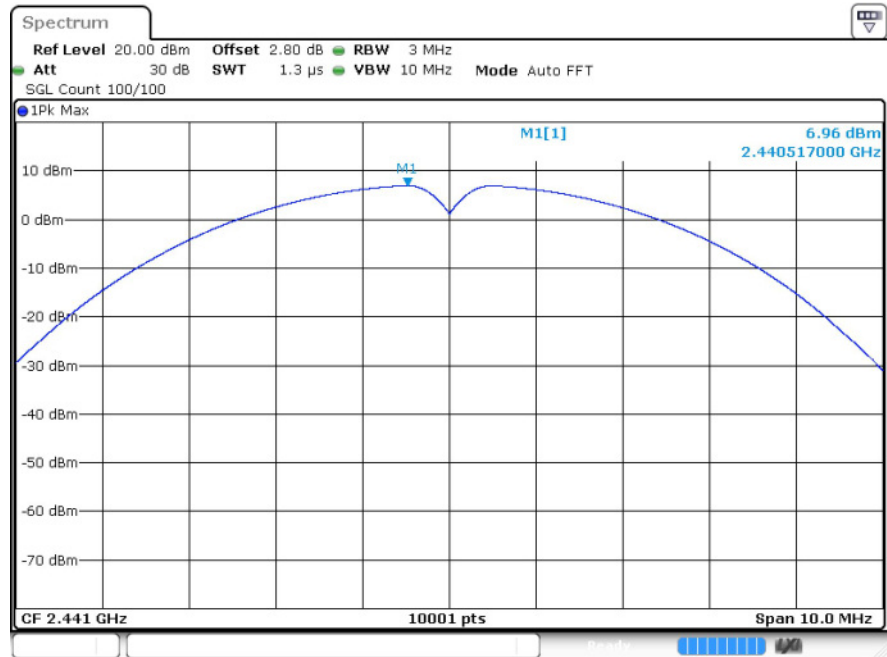
GFSK/HCH



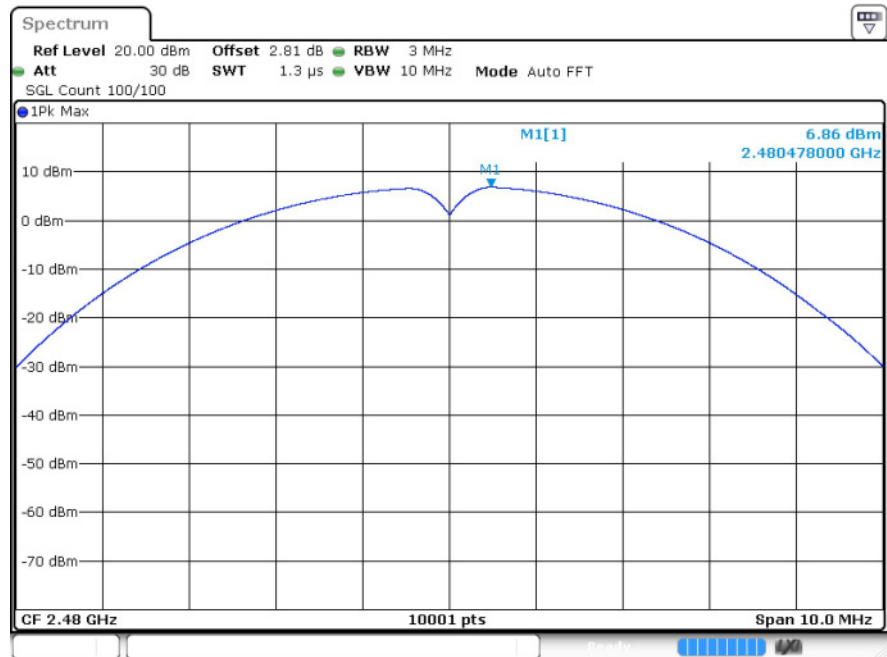
π /4DQPSK/LCH



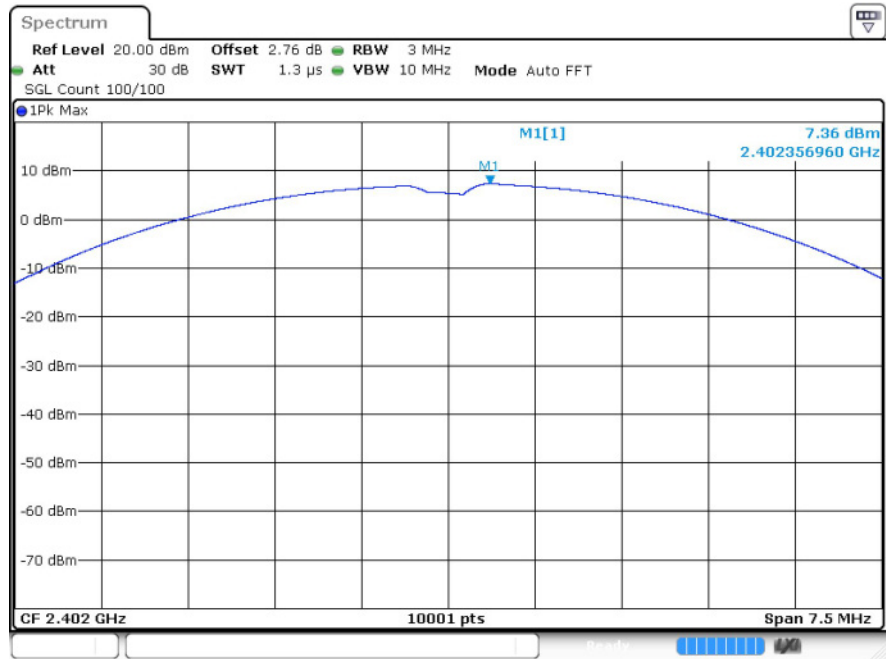
$\pi/4$ DQPSK/MCH



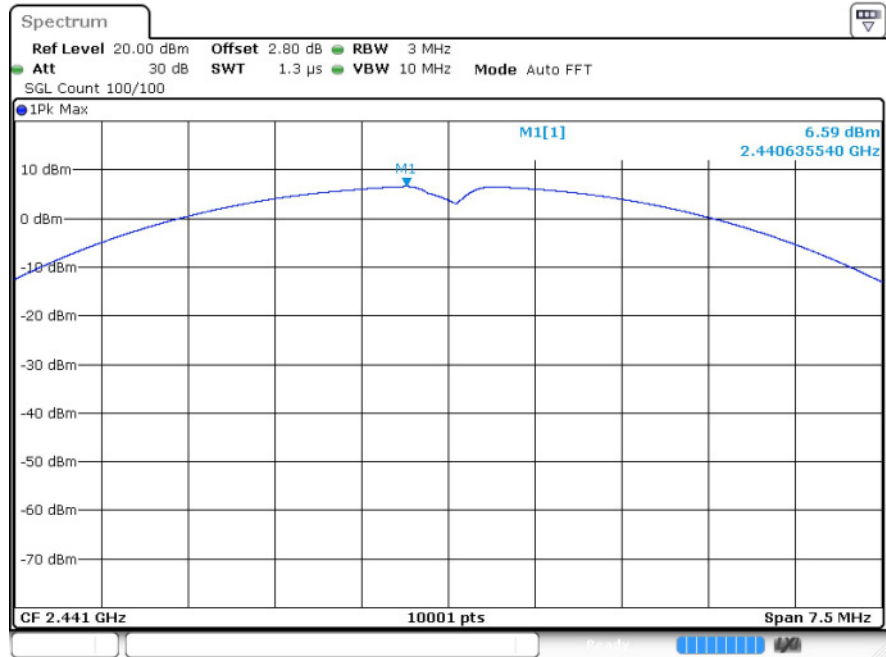
$\pi/4$ DQPSK/HCH



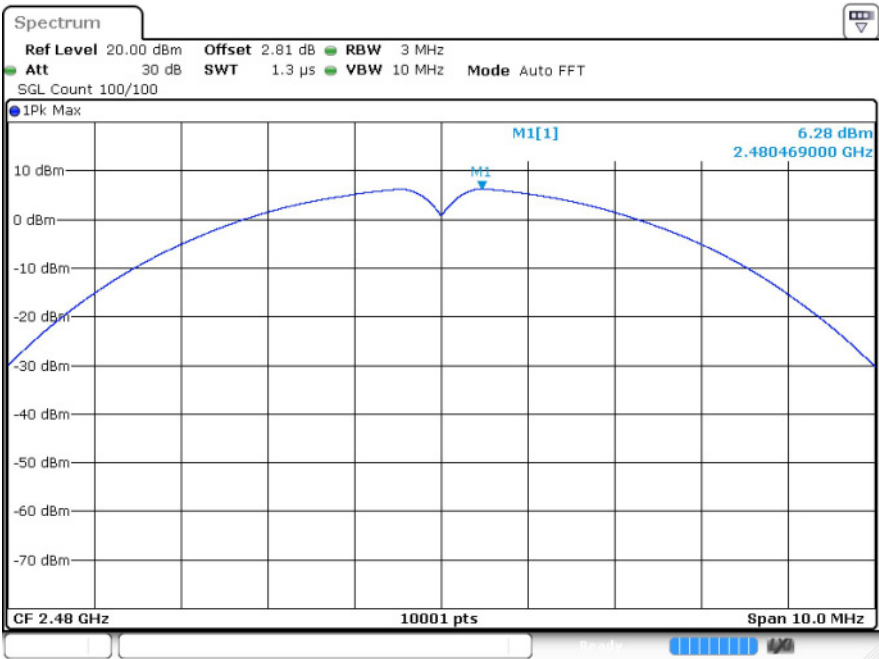
8DPSK/LCH



8DPSK/MCH



8DPSK/HCH

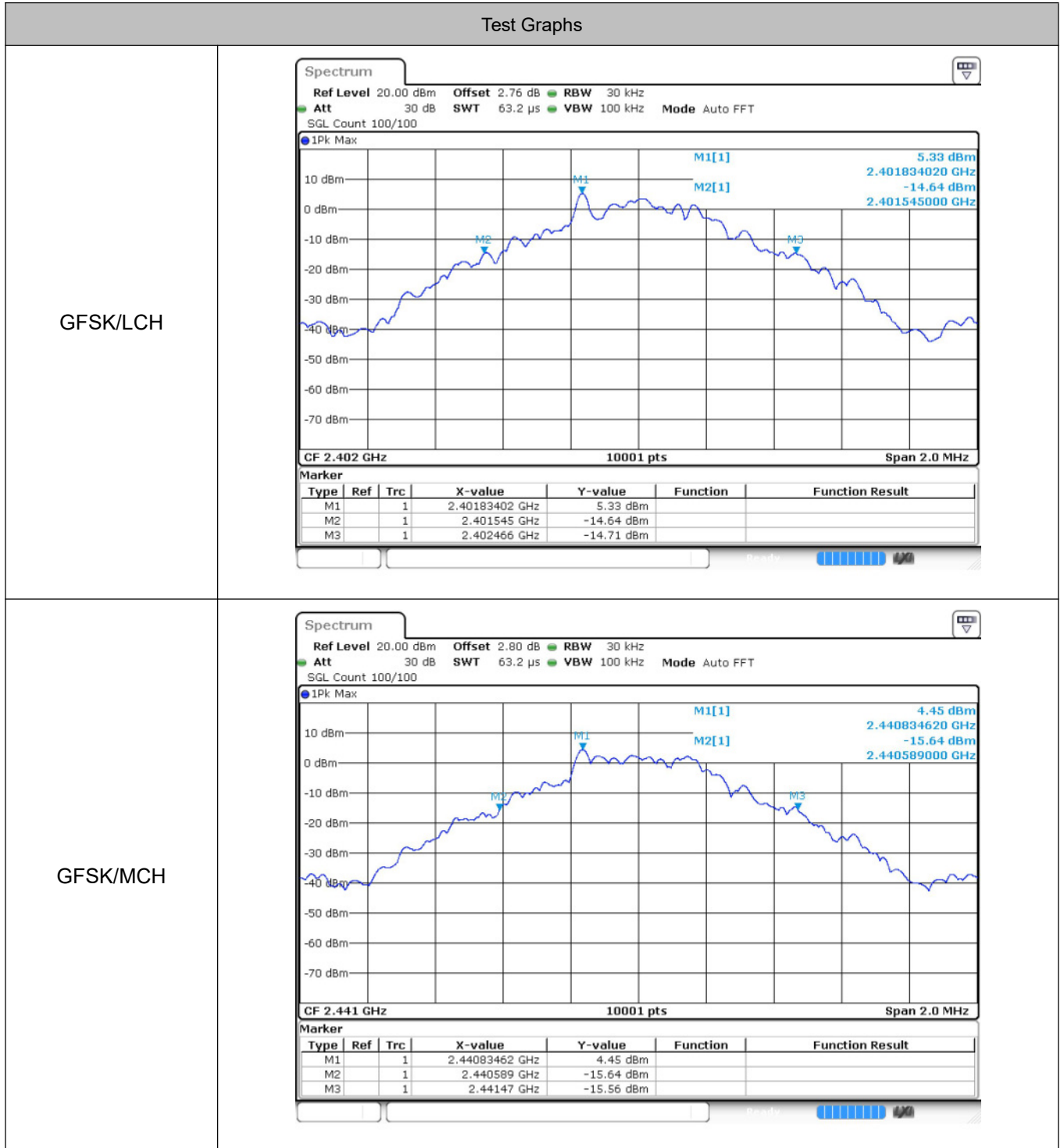


3 20dB Bandwidth

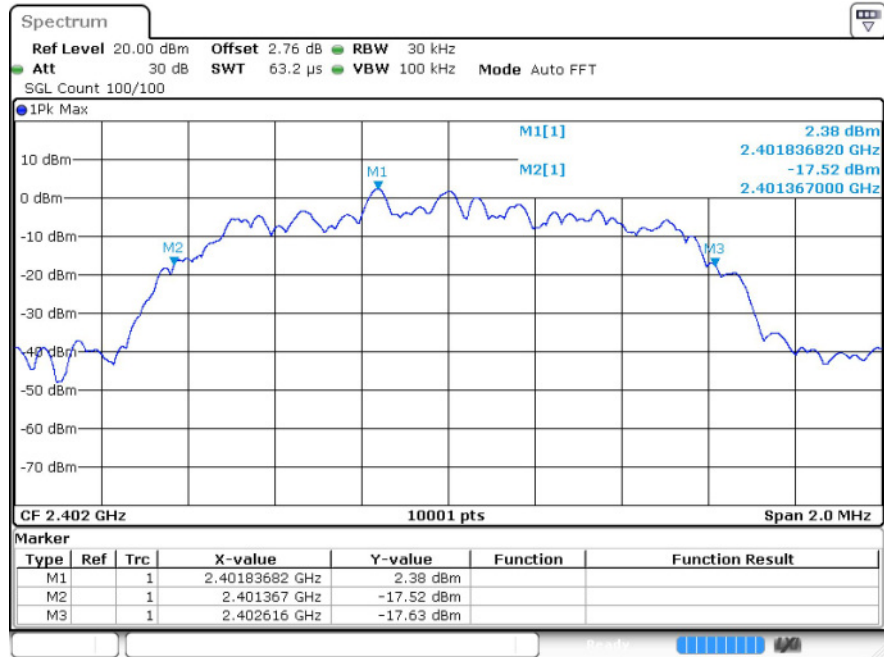
3.1 Test Result

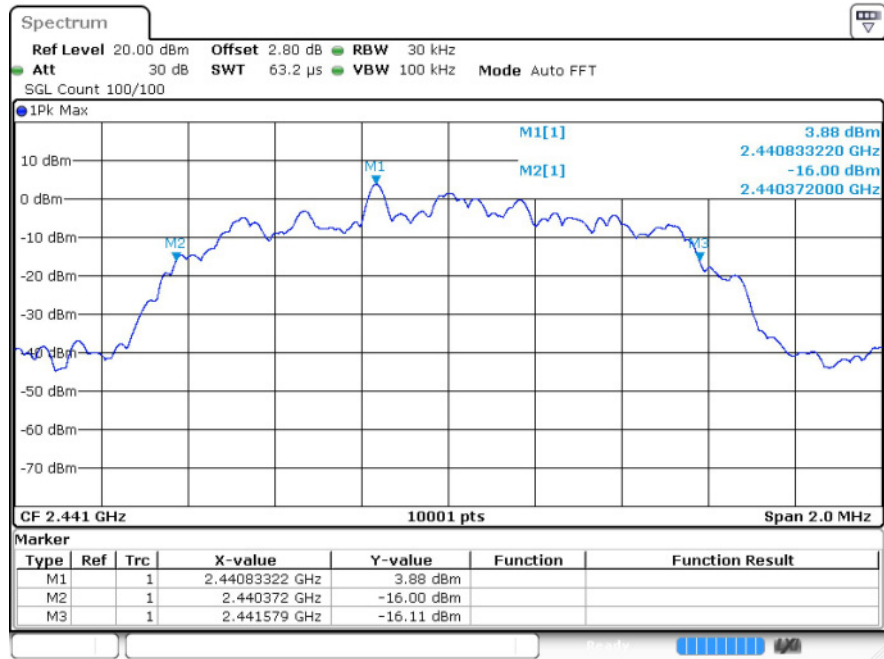
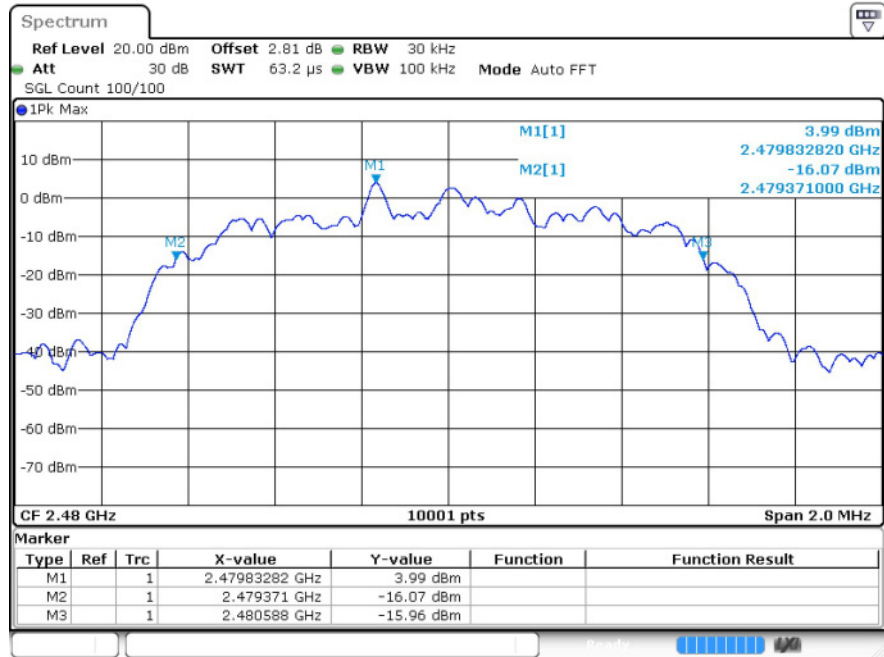
Mode	Channel.	20dB Bandwidth [MHz]	Limit [MHz]	Verdict
GFSK	LCH	0.921	Not Specified	Pass
	MCH	0.88	Not Specified	Pass
	HCH	0.841	Not Specified	Pass
$\pi/4$ DQPSK	LCH	1.249	Not Specified	Pass
	MCH	1.207	Not Specified	Pass
	HCH	1.217	Not Specified	Pass
8DPSK	LCH	1.202	Not Specified	Pass
	MCH	1.211	Not Specified	Pass
	HCH	1.204	Not Specified	Pass

3.2 Test Graphs

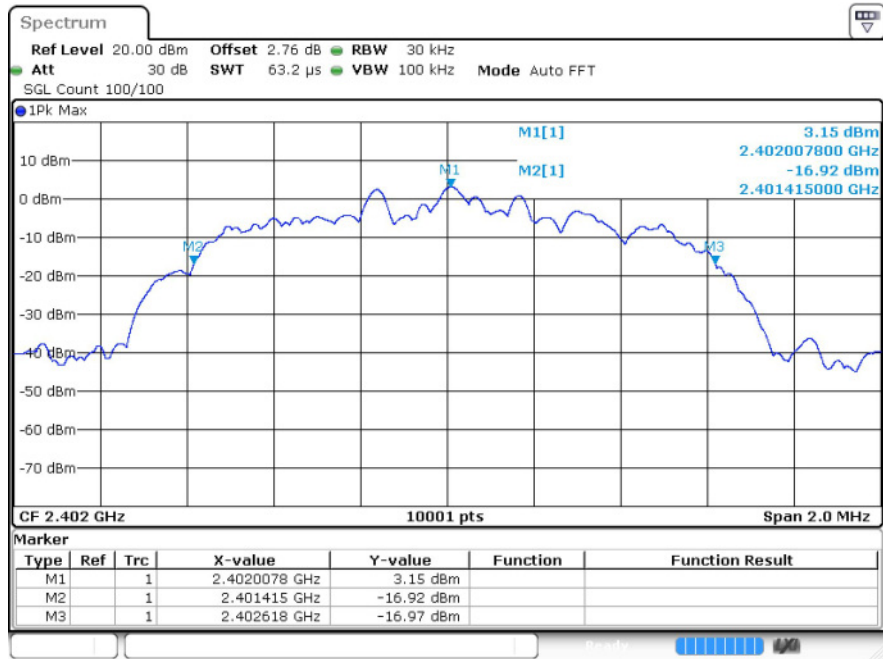


GFSK/HCH

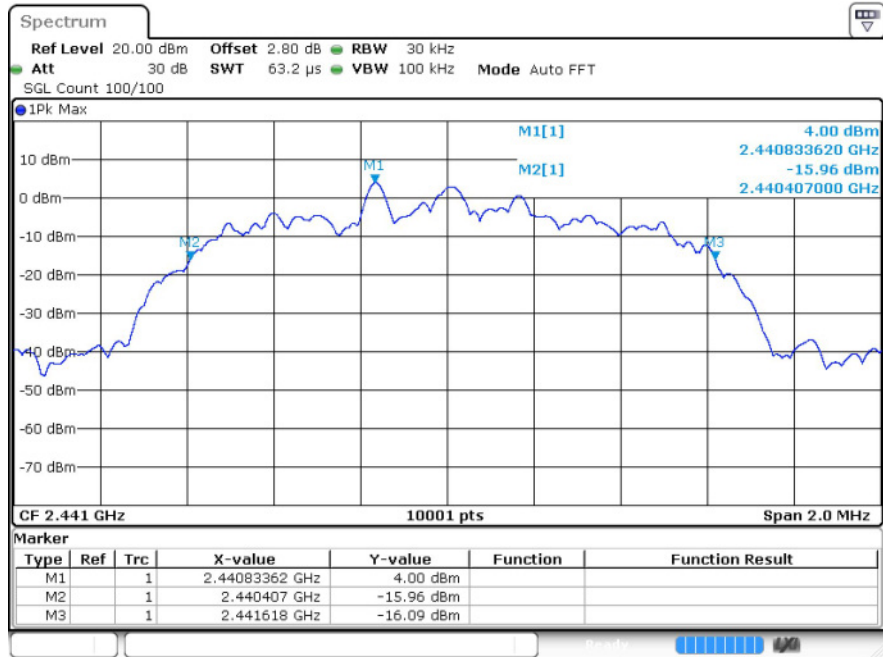

 $\pi/4$ DQPSK/LCH


$\pi/4$ DQPSK/MCH

 $\pi/4$ DQPSK/HCH


8DPSK/LCH

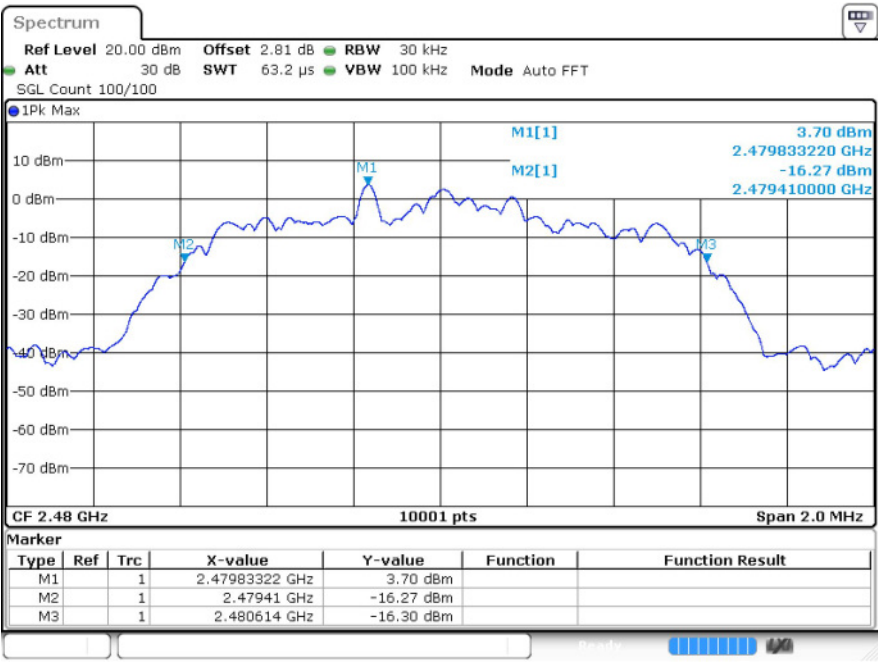


8DPSK/MCH





8DPSK/HCH

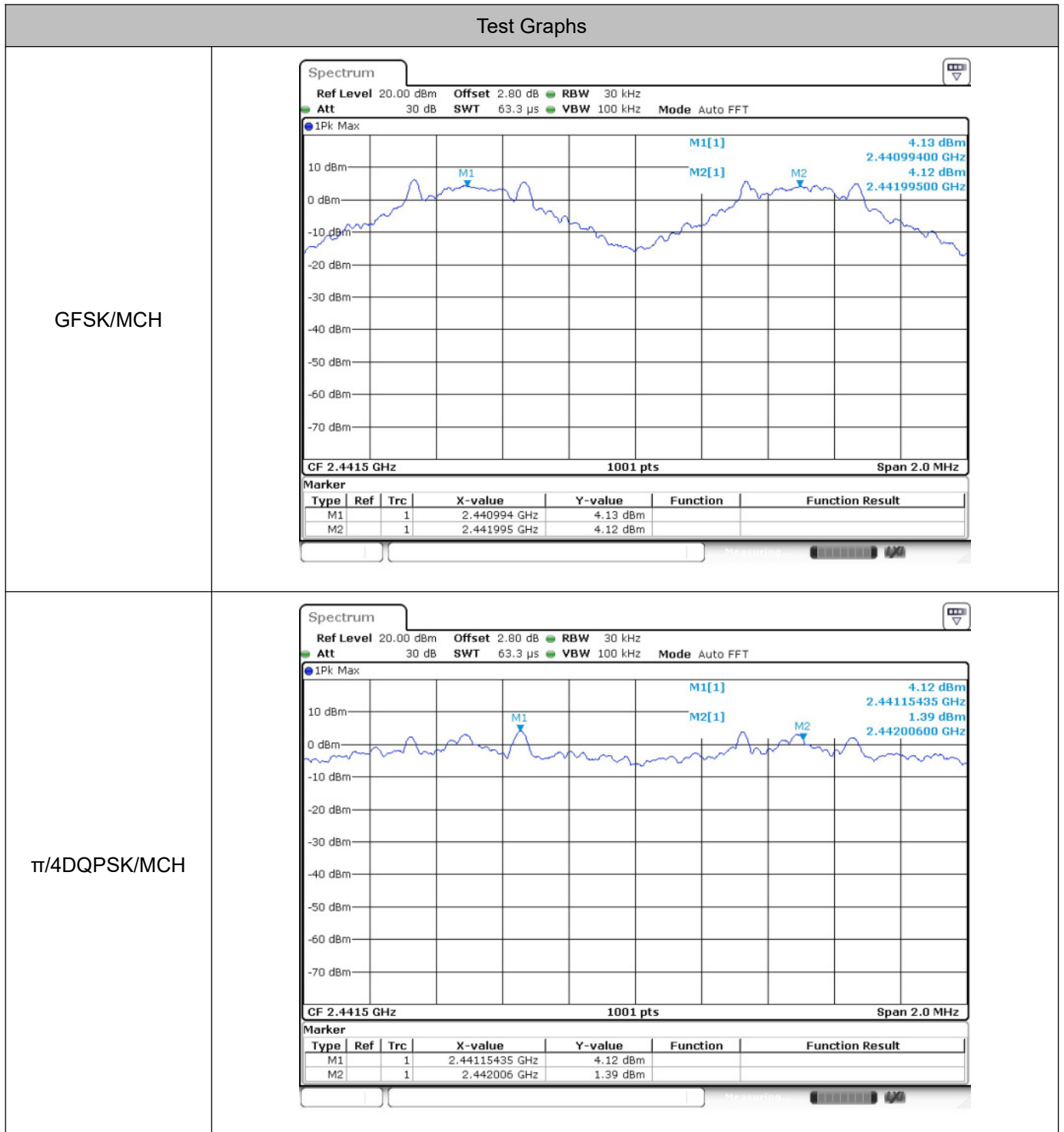


4 Carrier Frequency Separation

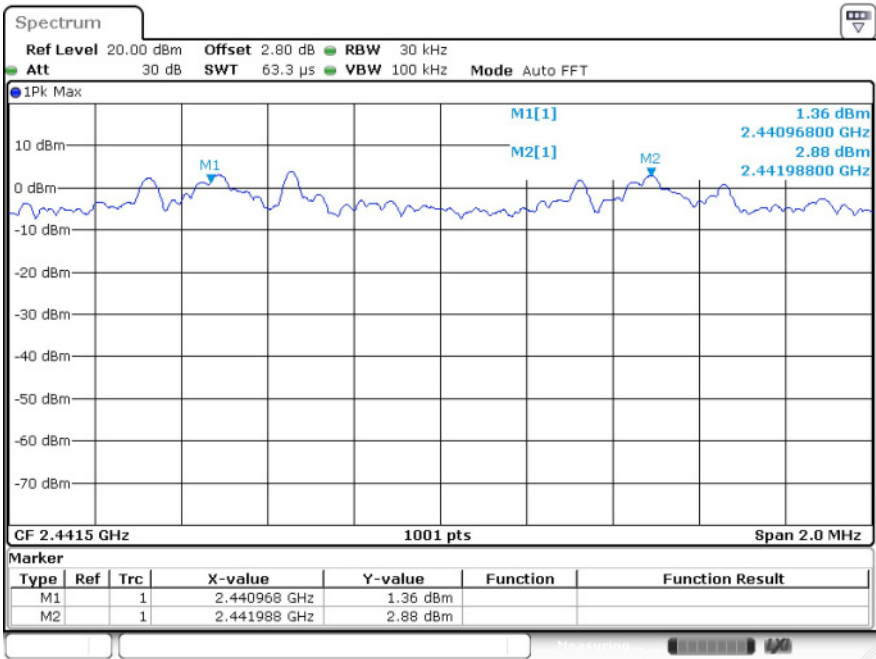
4.1 Test Result

Mode	Channel.	Carrier Frequency Separation [MHz]	Limit [MHz]	Verdict
GFSK	MCH	1.001	0.587	Pass
$\pi/4$ DQPSK	MCH	1221.263	0.805	Pass
8DPSK	MCH	1.02	0.807	Pass

4.2 Test Graphs



8DPSK/MCH

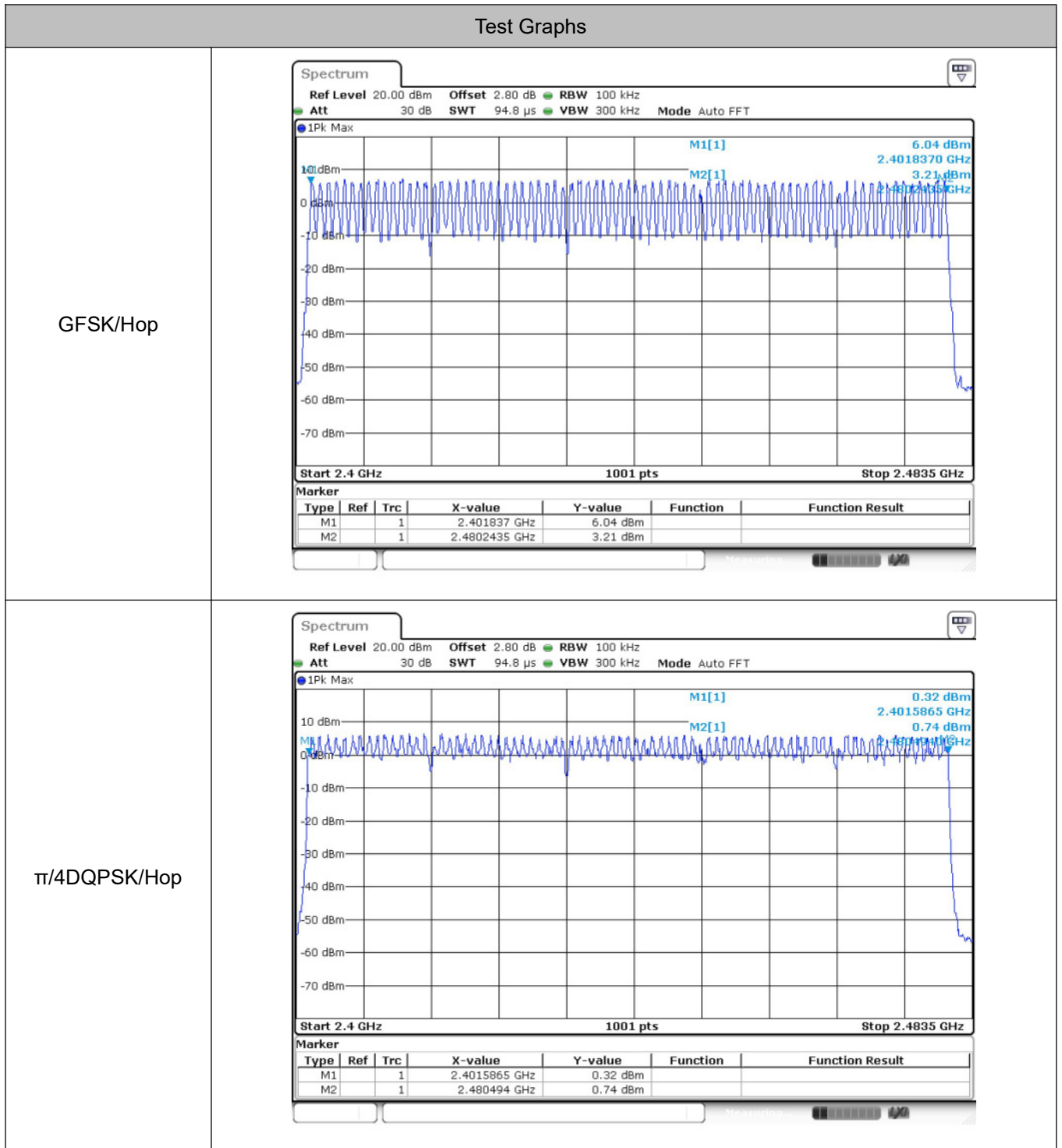


5 Hopping Channel Number

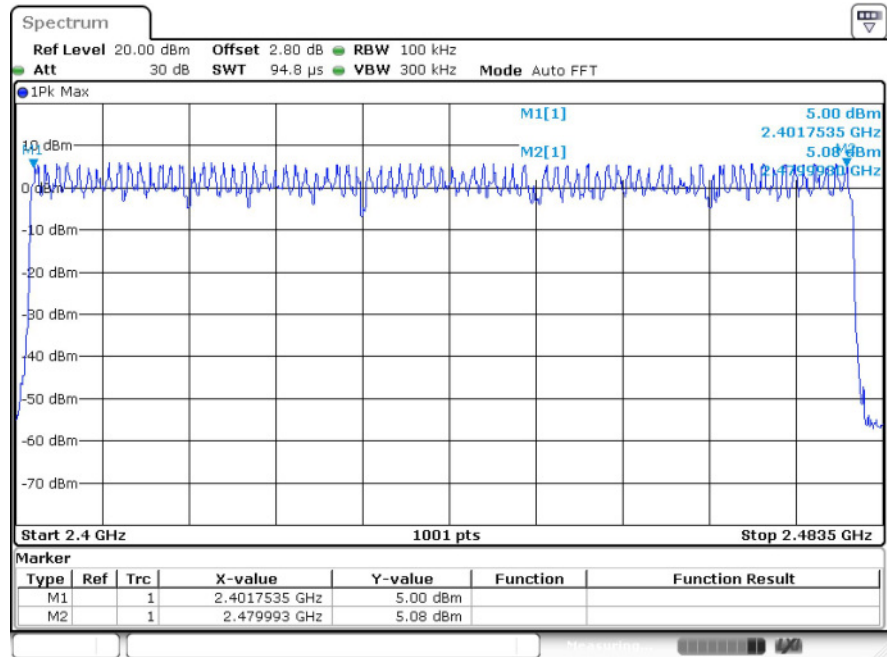
5.1 Test Result

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

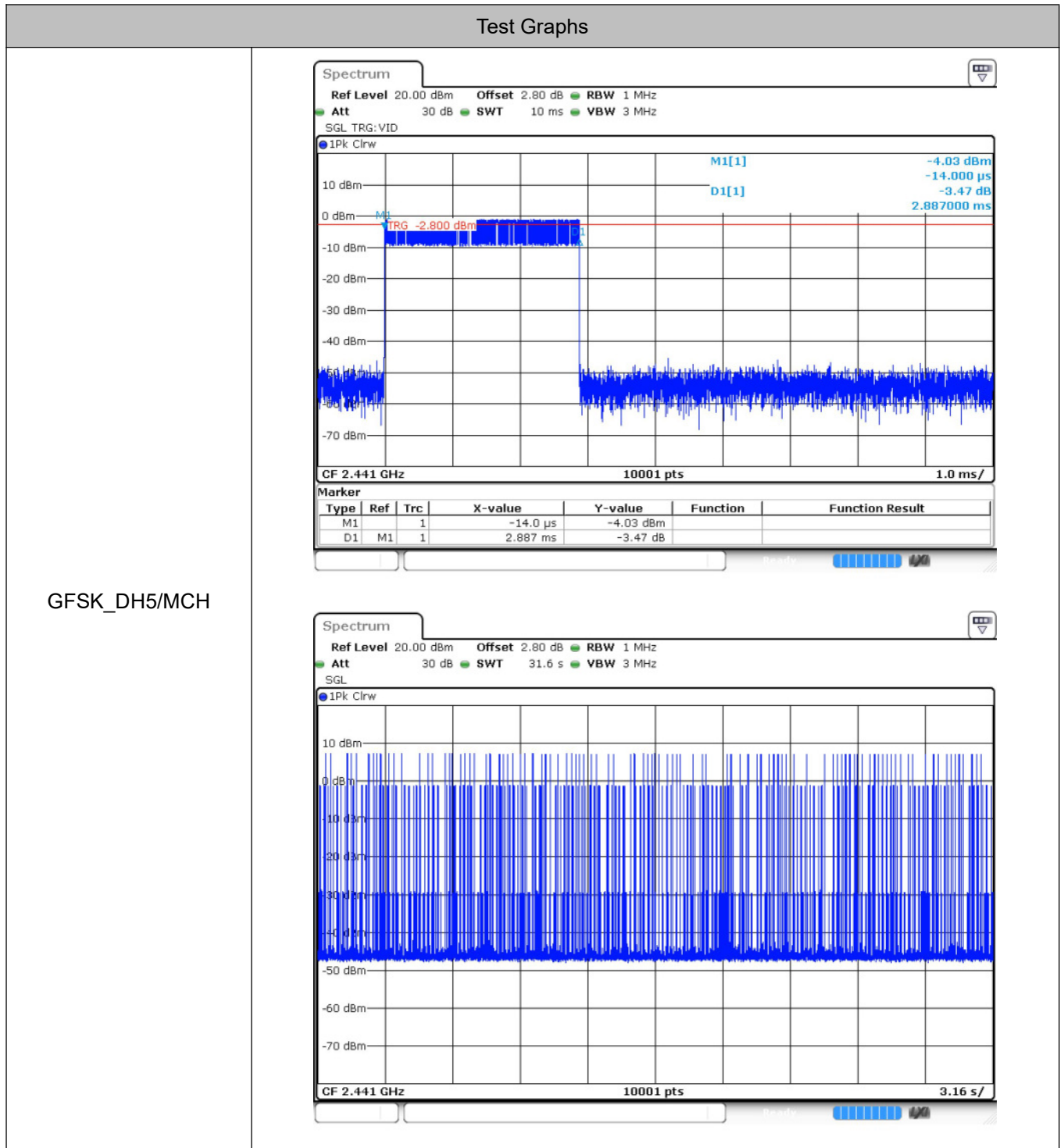


6 Dwell Time

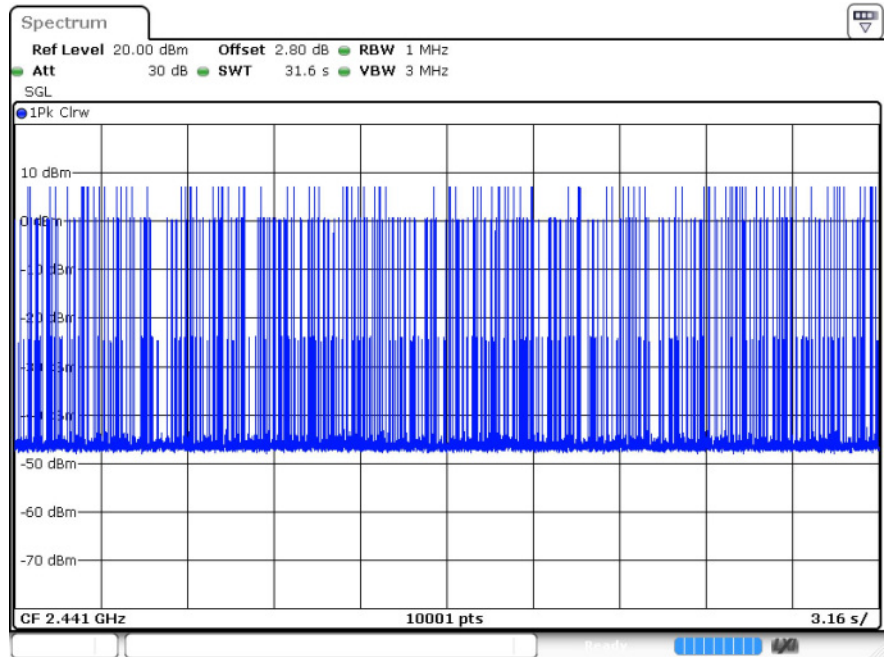
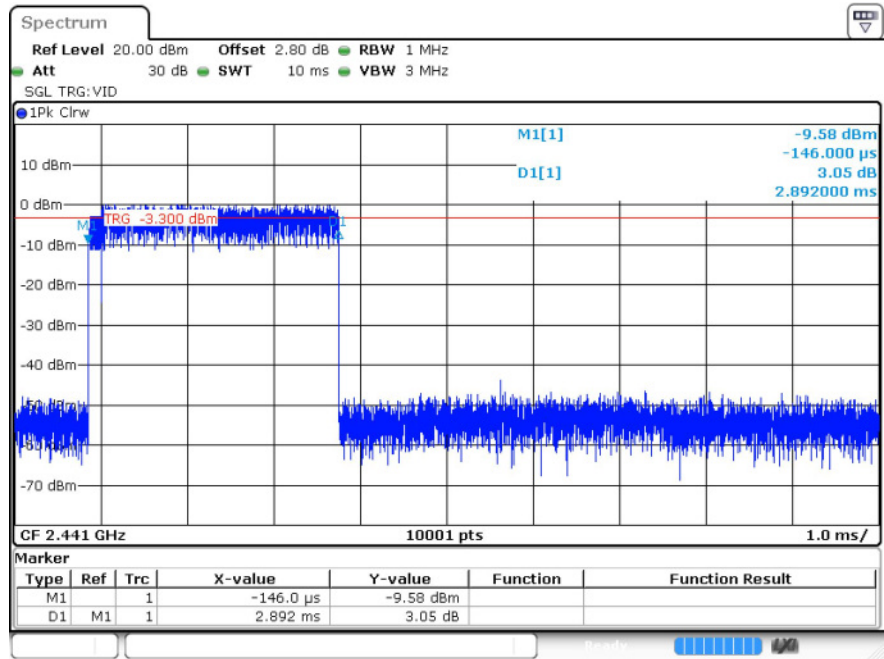
6.1 Test Result

Mode	Packet	Channel	Burst Width [ms/hop/ch]	Total Hops[hop*ch]	Dwell Time[ms]	Limit [s]	Verdict
GFSK	DH5	MCH	2.887	115	332.005	0.4	Pass
$\pi/4$ DQPSK	2DH5	MCH	2.892	104	300.768	0.4	Pass
8DPSK	3DH5	MCH	2.893	103	297.979	0.4	Pass

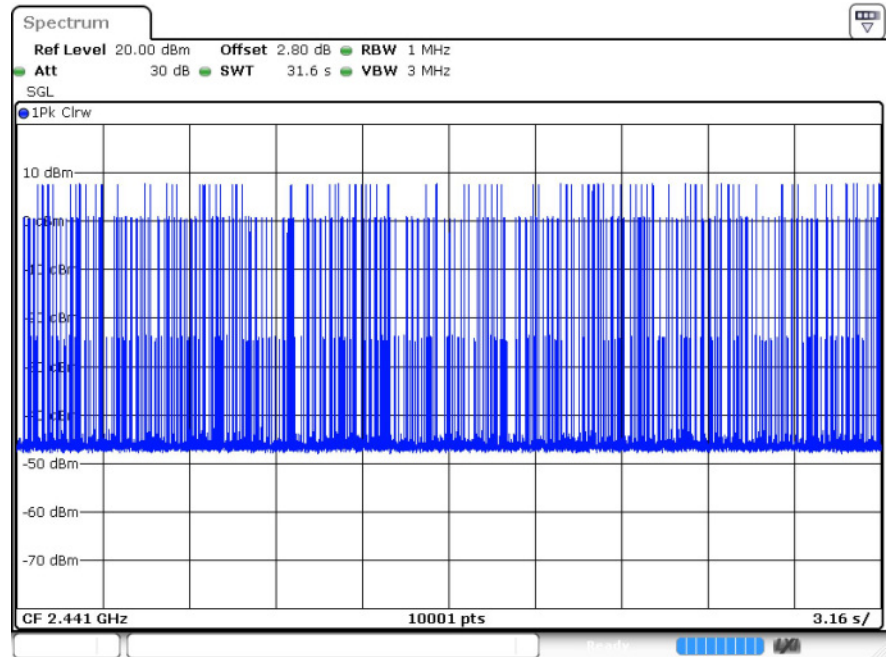
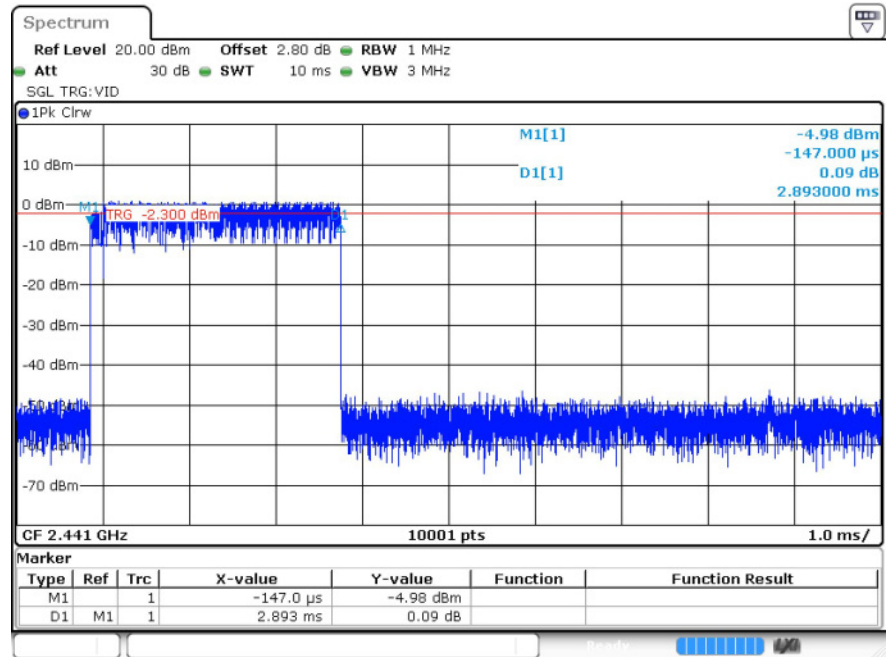
6.2 Test Graphs



$\pi/4$ DQPSK
_2DH5/MCH



8DPSK_3DH5/MCH

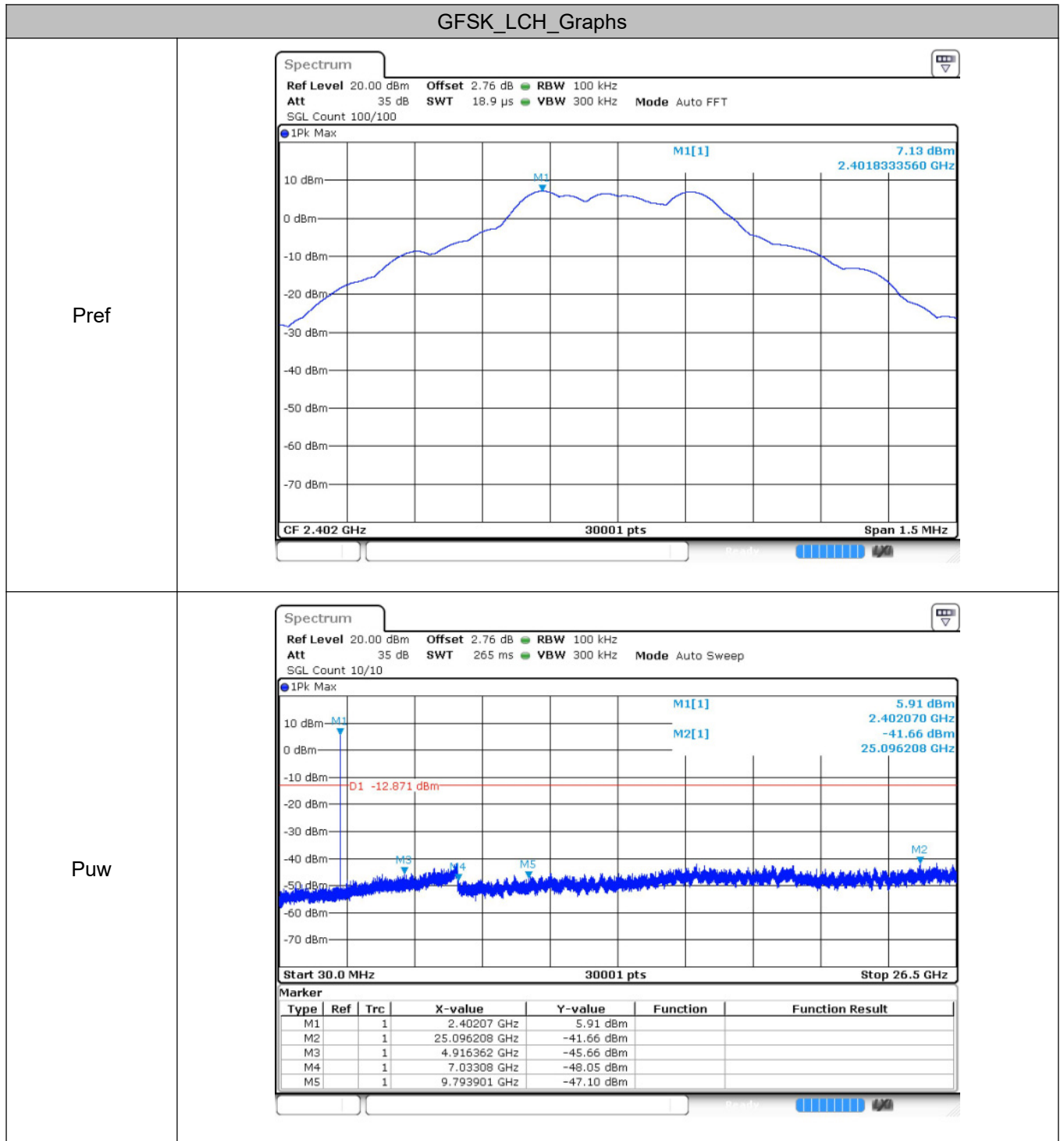


7 RF Conducted Spurious Emissions

7.1 Test Result

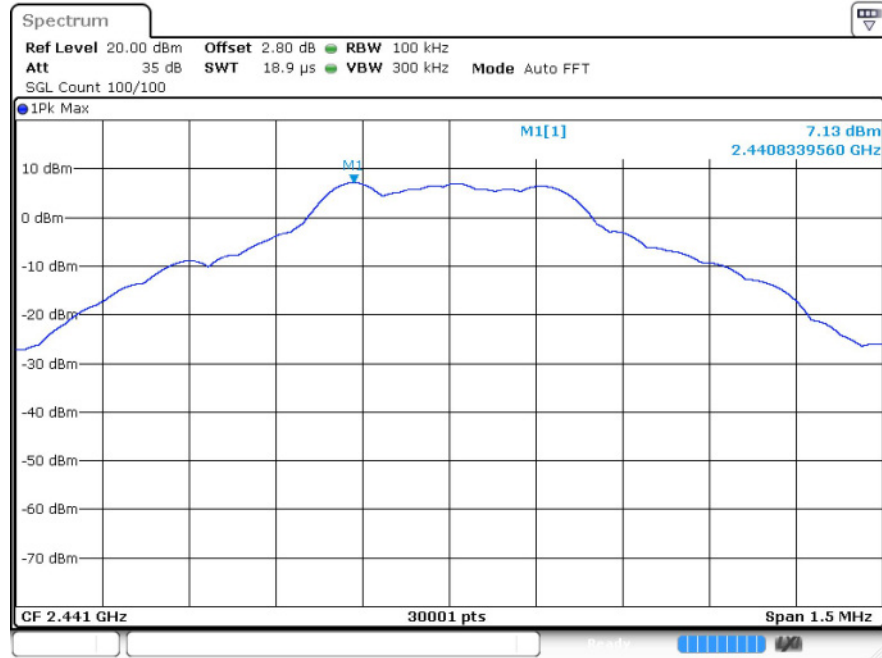
Mode	Channel	Max. Level [dBc]	Limit [dBc]	Verdict
GFSK	LCH	-48.78	-20	Pass
	MCH	-47.98	-20	Pass
	HCH	-46.84	-20	Pass
$\pi/4$ DQPSK	LCH	-47.14	-20	Pass
	MCH	-46.91	-20	Pass
	HCH	-47.58	-20	Pass
8DPSK	LCH	-47.75	-20	Pass
	MCH	-47.24	-20	Pass
	HCH	-47.1	-20	Pass

7.2 Test Graphs

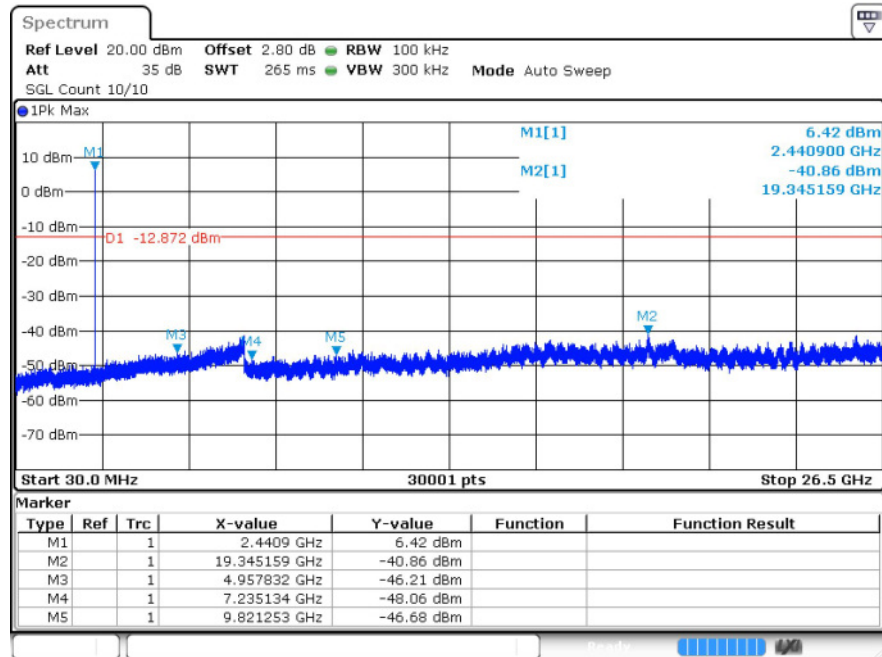


GFSK_MCH_Graphs

Pref

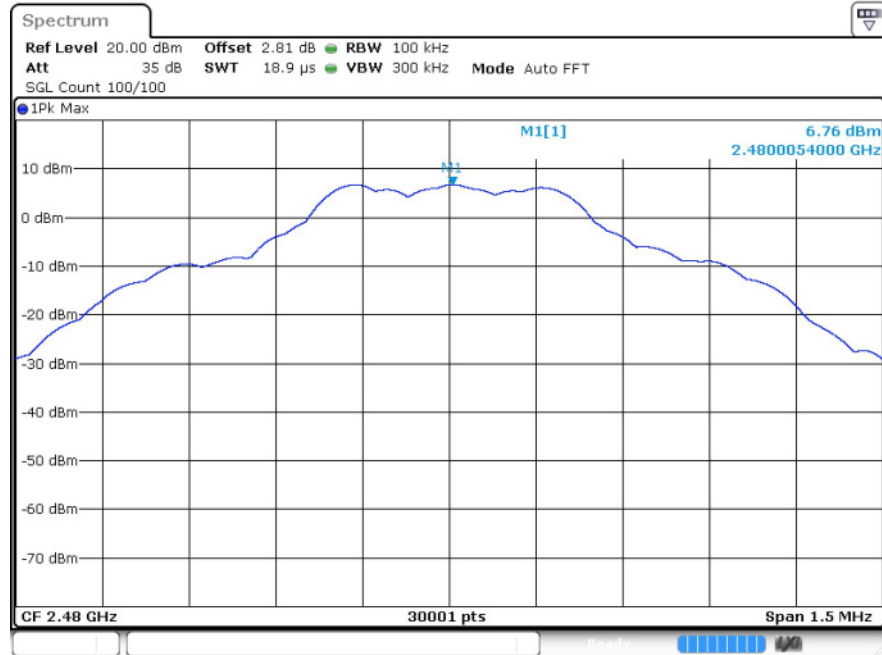


Puw

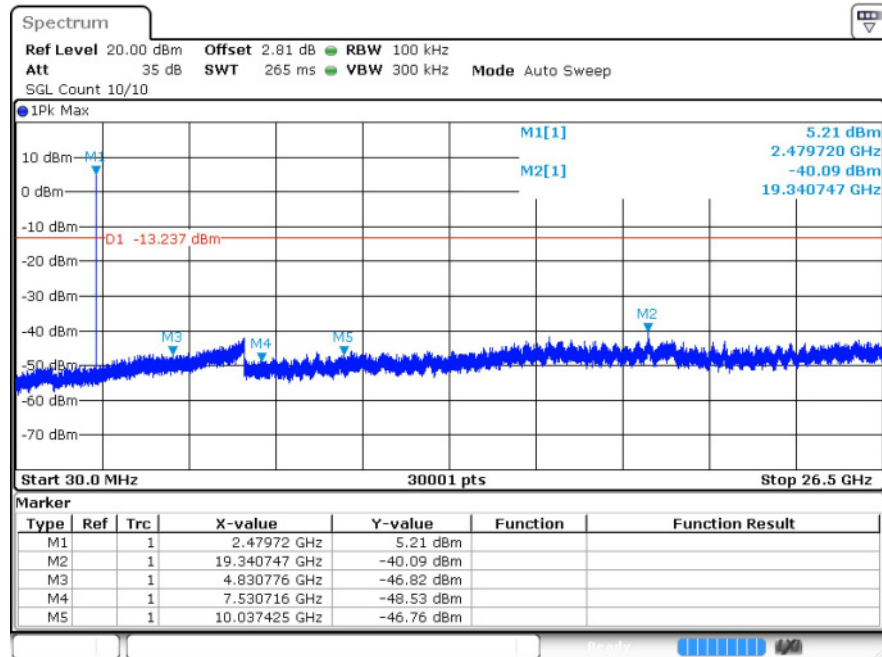


GFSK_HCH_Graphs

Pref

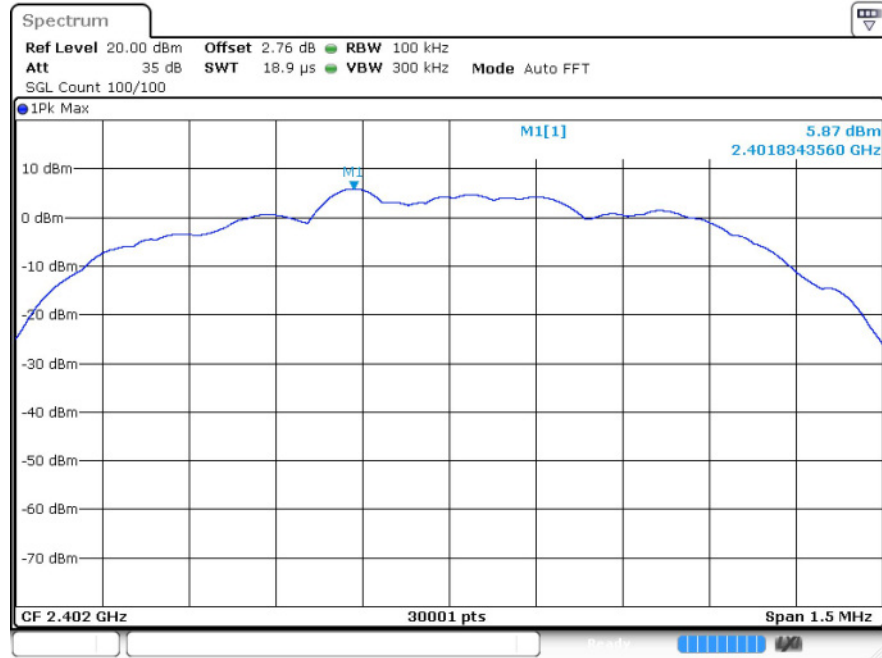


Puw

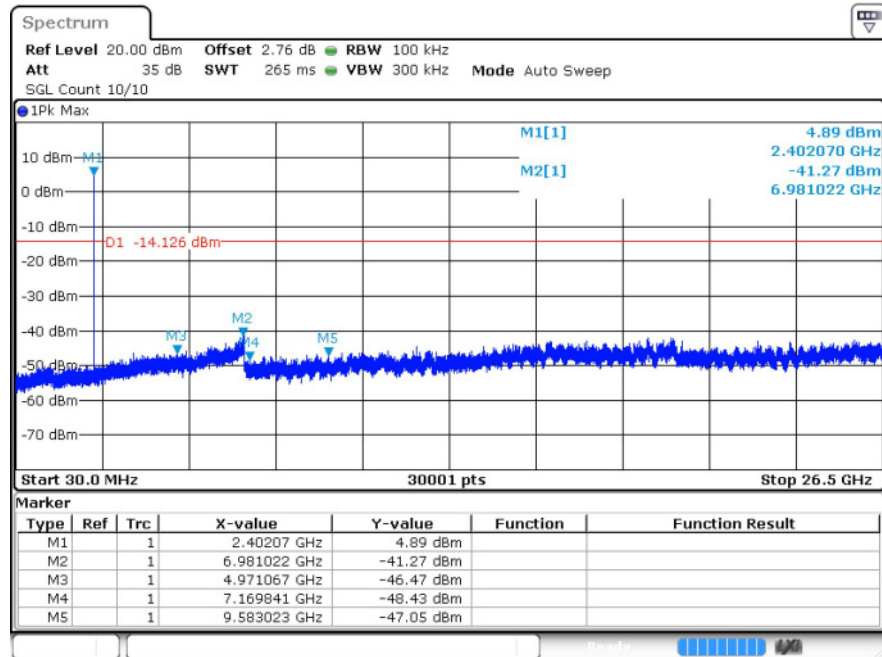


$\pi/4$ DQPSK_LCH_Graphs

Pref

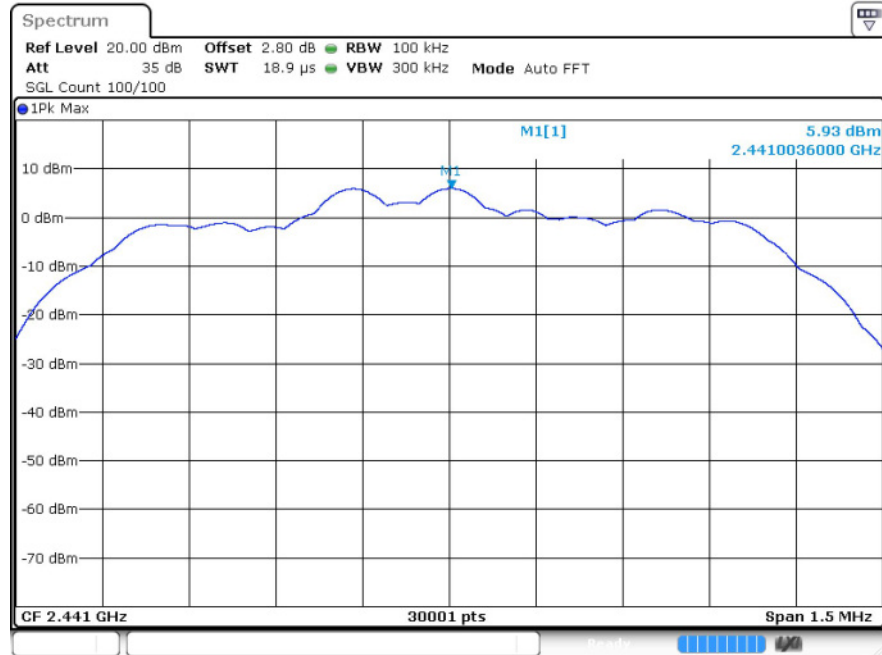


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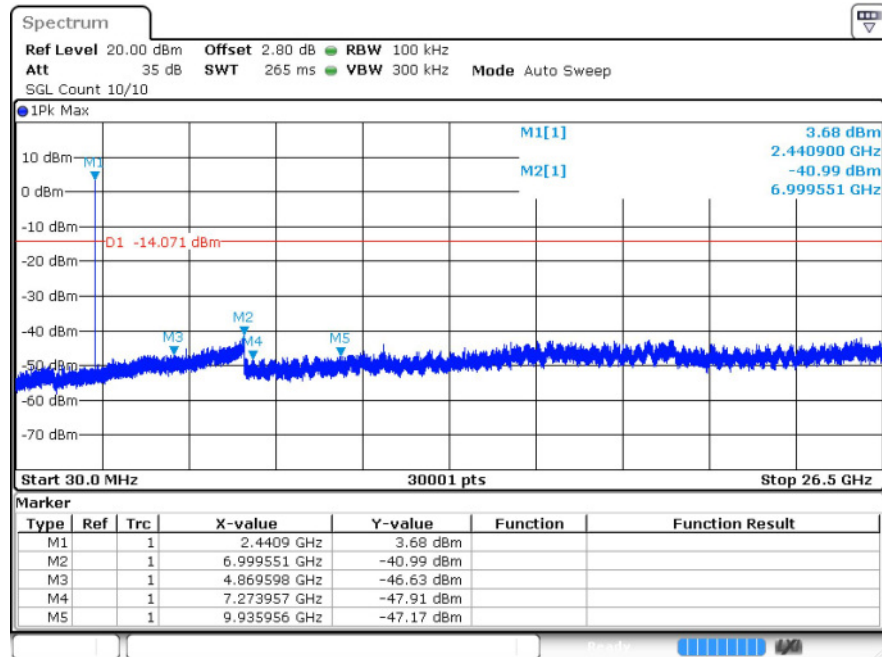


π /4DQPSK_MCH_Graphs

Pref

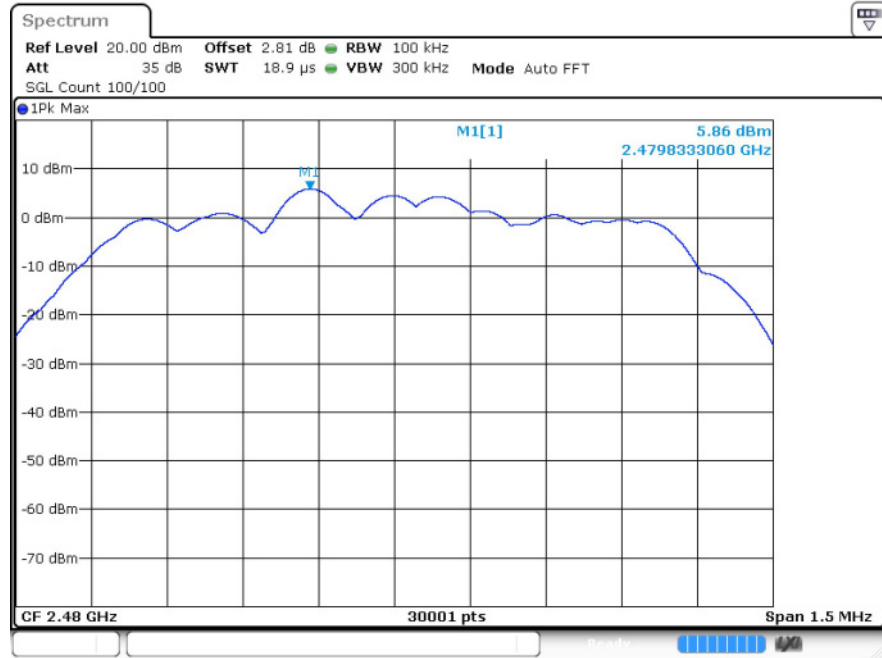


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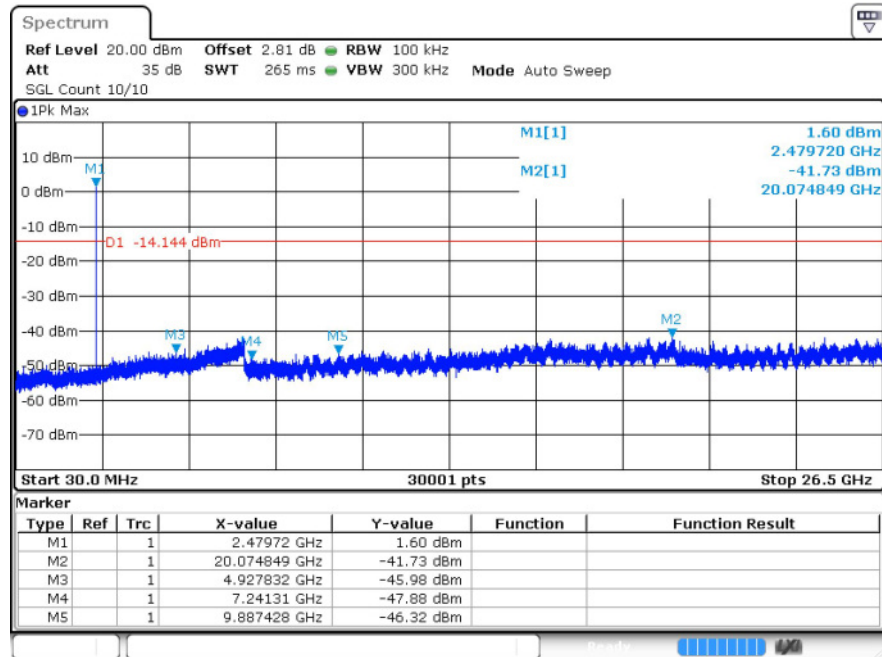


$\pi/4$ DQPSK_HCH_Graphs

Pref

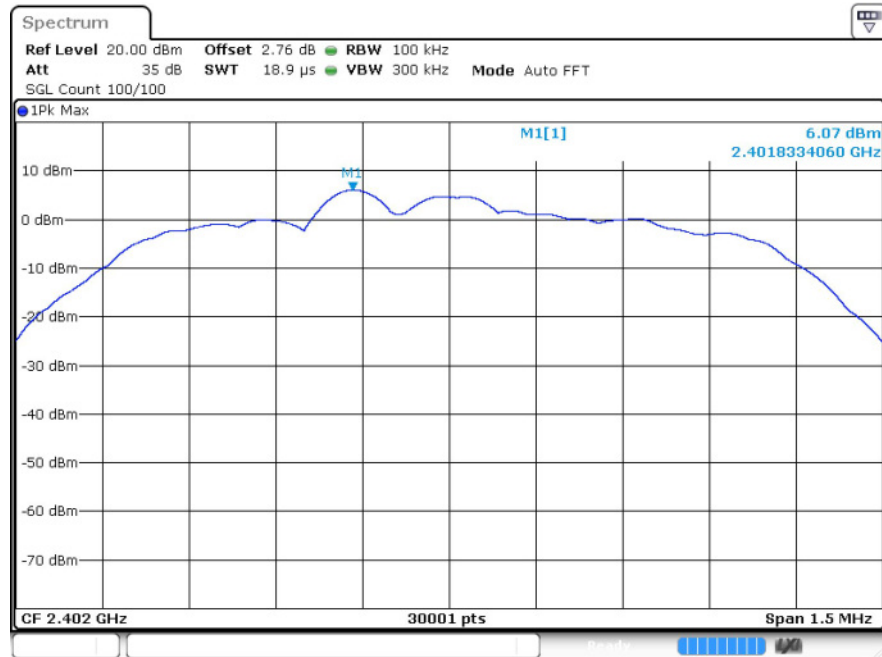


Puw



8DPSK_LCH_Graphs

Pref



Puw

