



Appendix A

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

Product Name: Wireless headphone

Trade Mark: N/A

Test Model: TV-001

Environmental Conditions

Temperature:	24.6° C
Relative Humidity:	52.4%
ATM Pressure:	100.0 kPa
Test Engineer:	Emiya Lin
Supervised by:	Simba Huang



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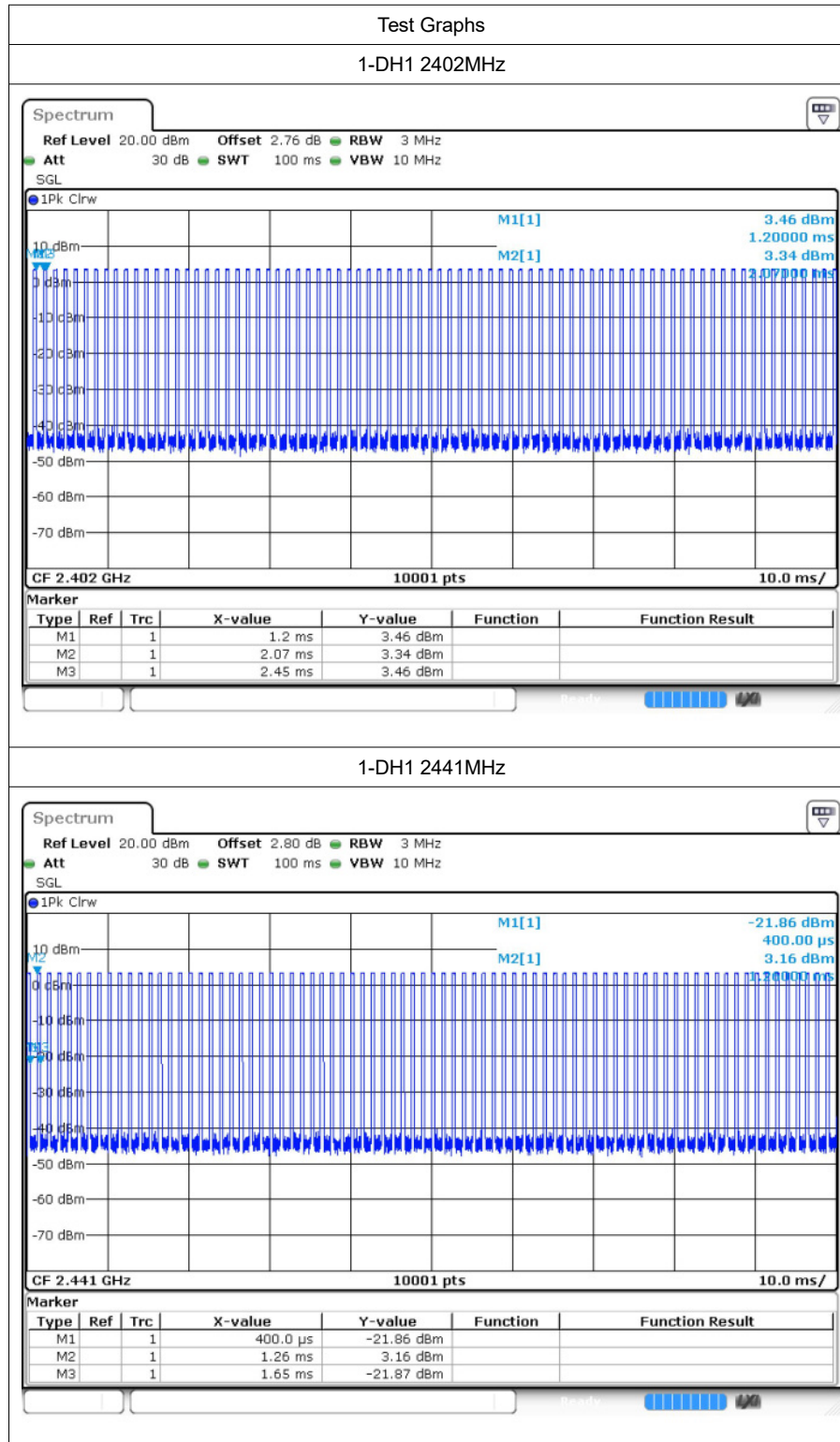
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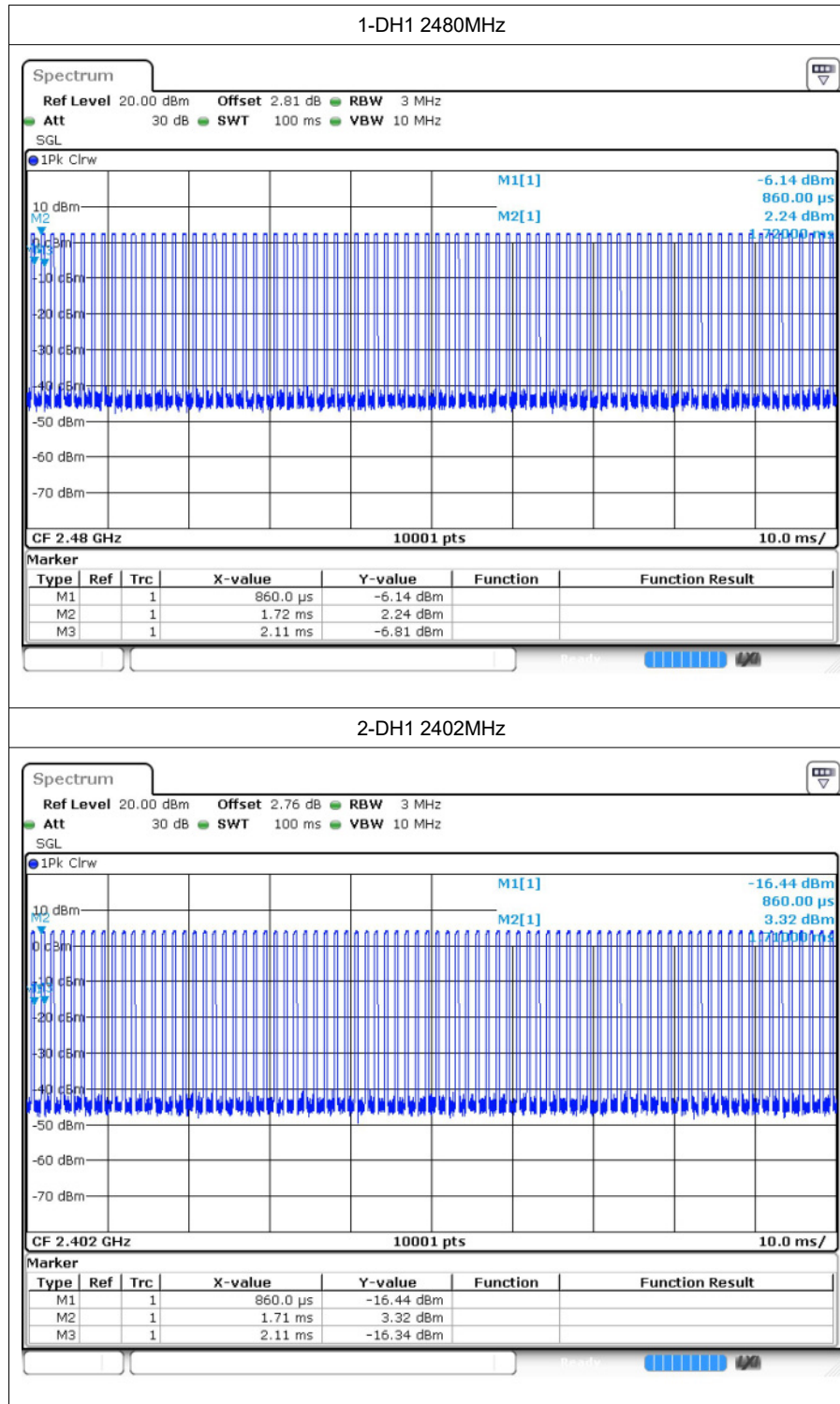
1 Duty Cycle

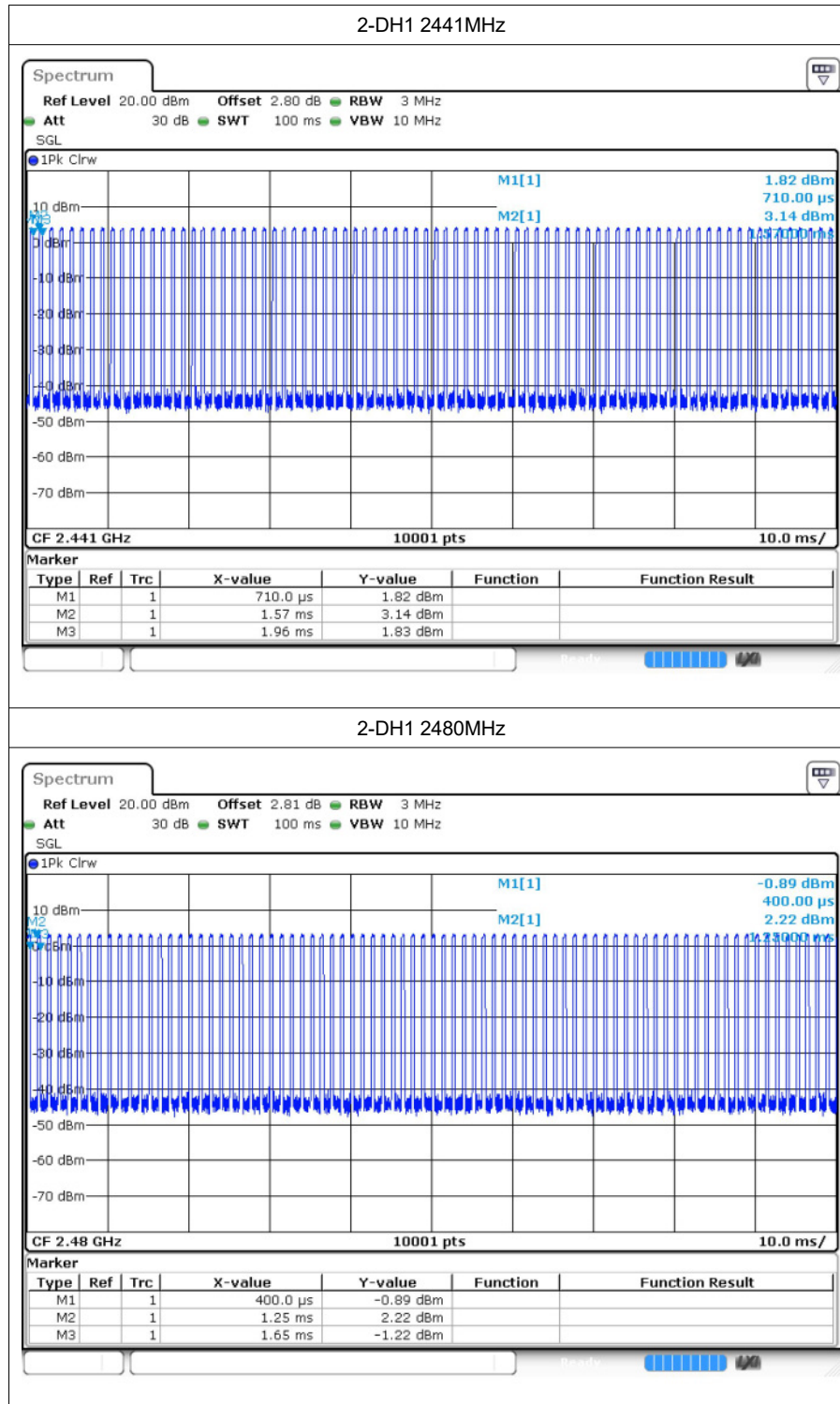
1.1 Test Result

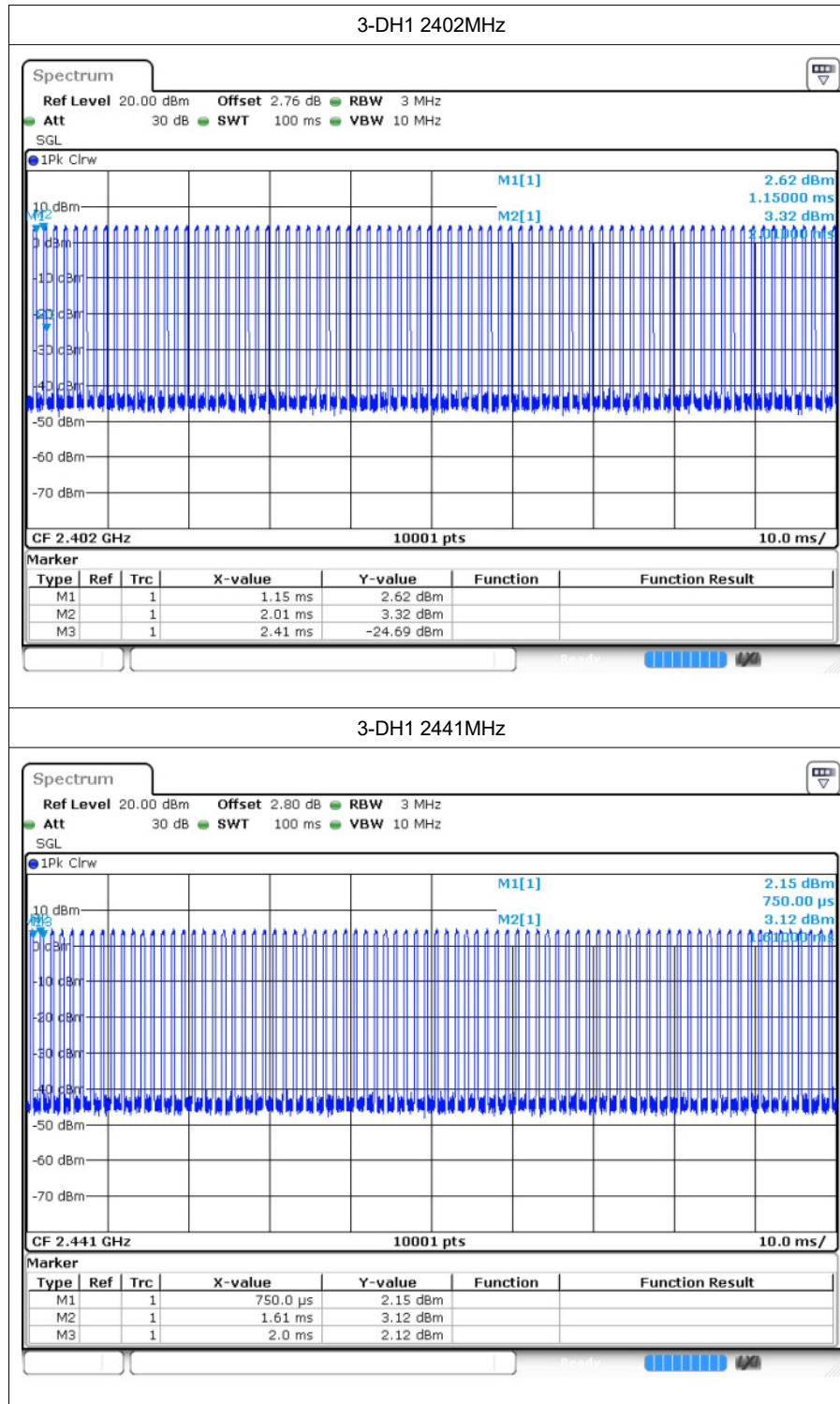
Mode	Frequency (MHz)	Duty Cycle (%)	Correction Factor	1/T (kHz)
1-DH1	2402	31.86	4.97	2.63
1-DH1	2441	31.55	5.01	2.56
1-DH1	2480	31.86	4.97	2.56
2-DH1	2402	32.8	4.84	2.5
2-DH1	2441	32.6	4.87	2.56
2-DH1	2480	32.81	4.84	2.5
3-DH1	2402	32.36	4.9	2.5
3-DH1	2441	32.03	4.94	2.56
3-DH1	2480	32.01	4.95	2.56

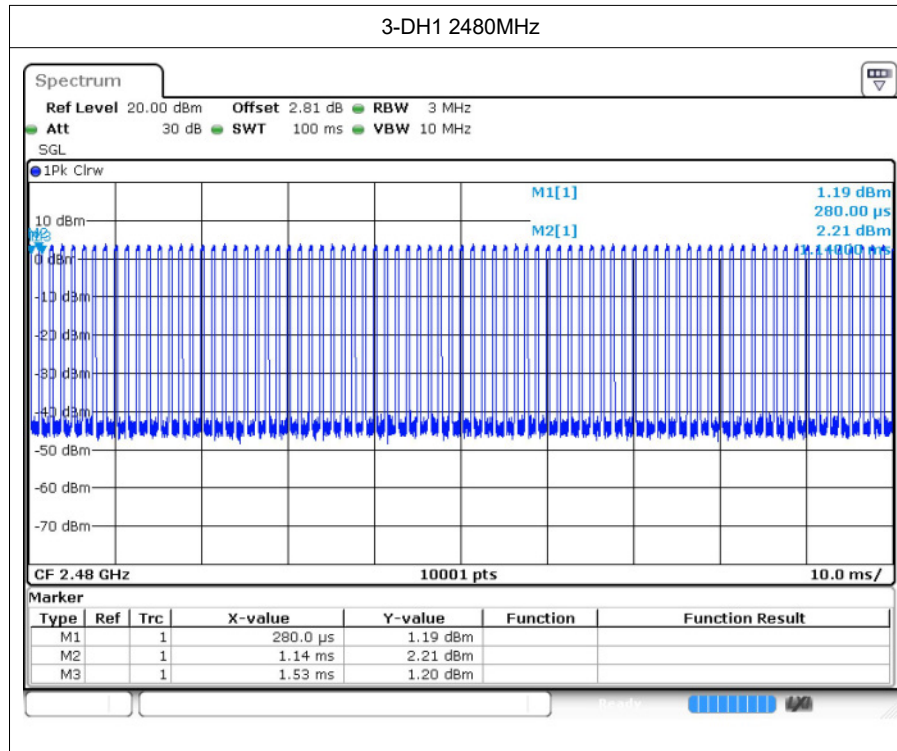
1.2 Test Graphs









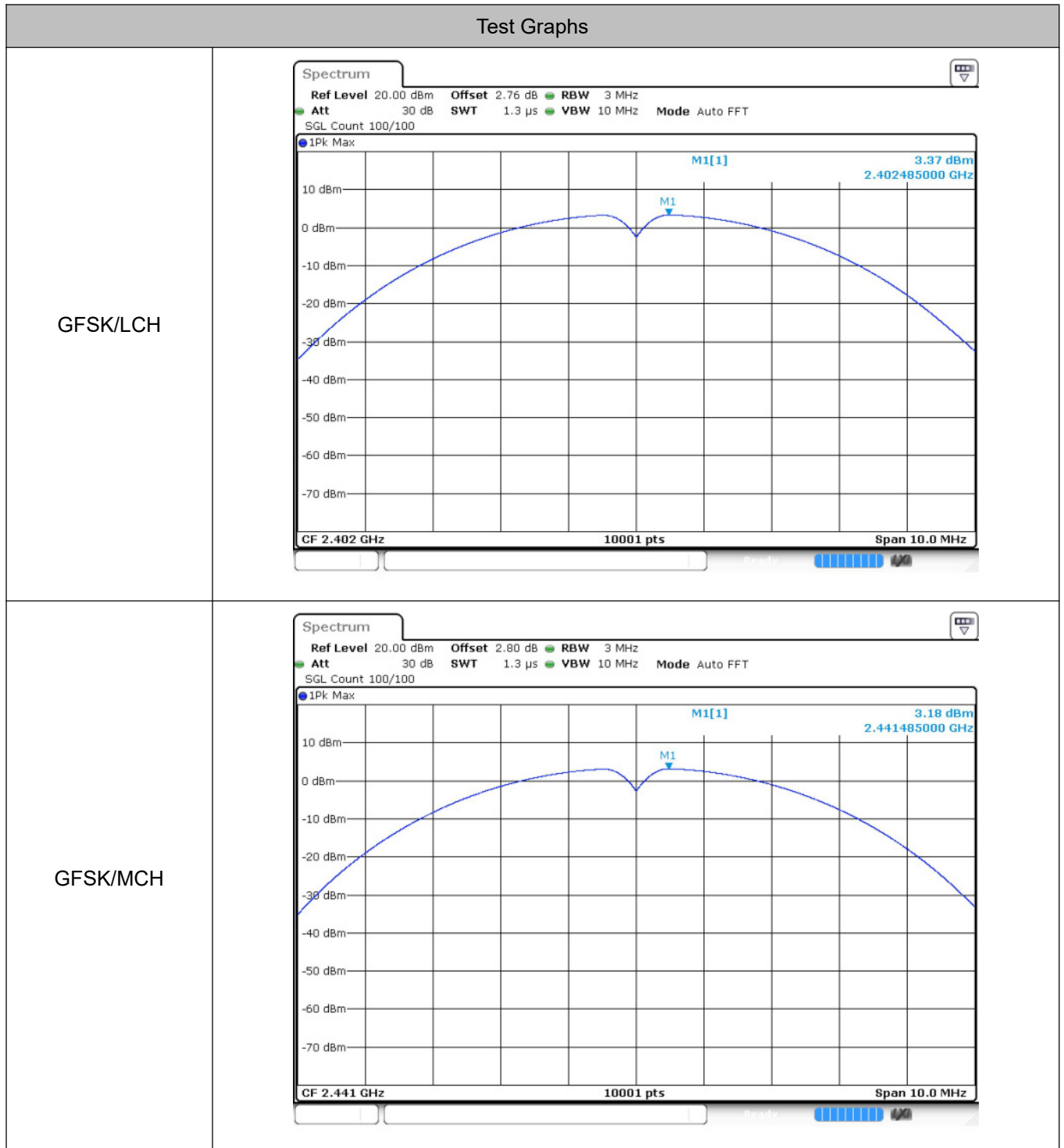


2 Maximum Conducted Peak Output Power

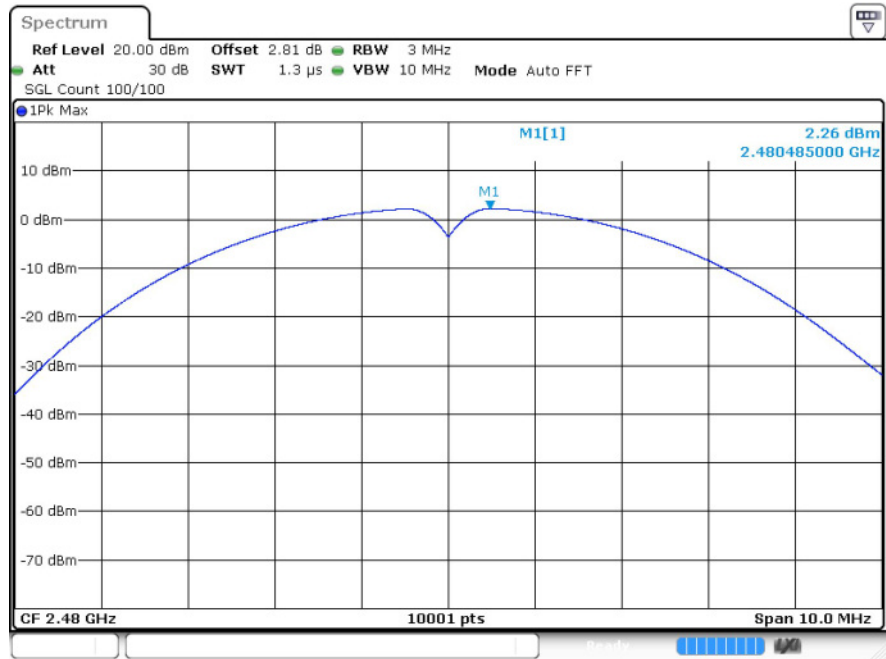
2.1 Test Result

Mode	Channel.	Maximum Peak Output Power [dBm]	Limit [dBm]	Verdict
GFSK	LCH	3.37	21	Pass
	MCH	3.18	21	Pass
	HCH	2.26	21	Pass
$\pi/4$ DQPSK	LCH	3.59	21	Pass
	MCH	3.79	21	Pass
	HCH	2.9	21	Pass
8DPSK	LCH	3.8	21	Pass
	MCH	3.84	21	Pass
	HCH	2.6	21	Pass

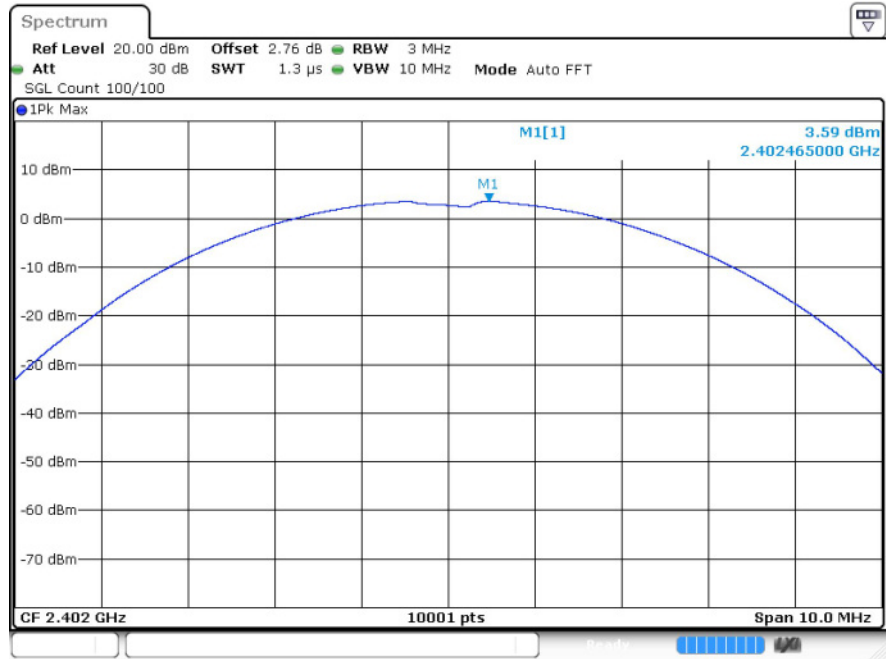
2.2 Test Graphs



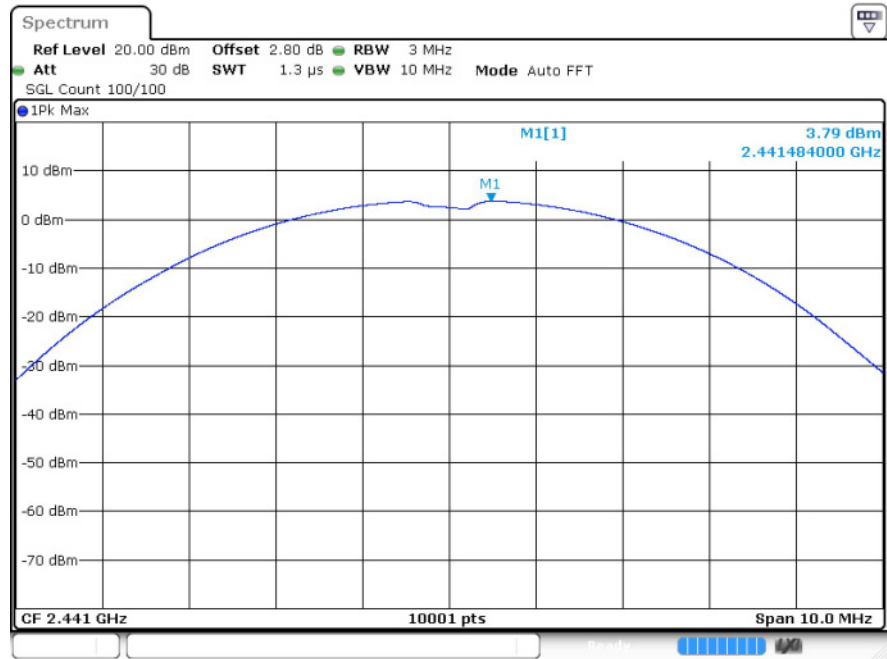
GFSK/HCH



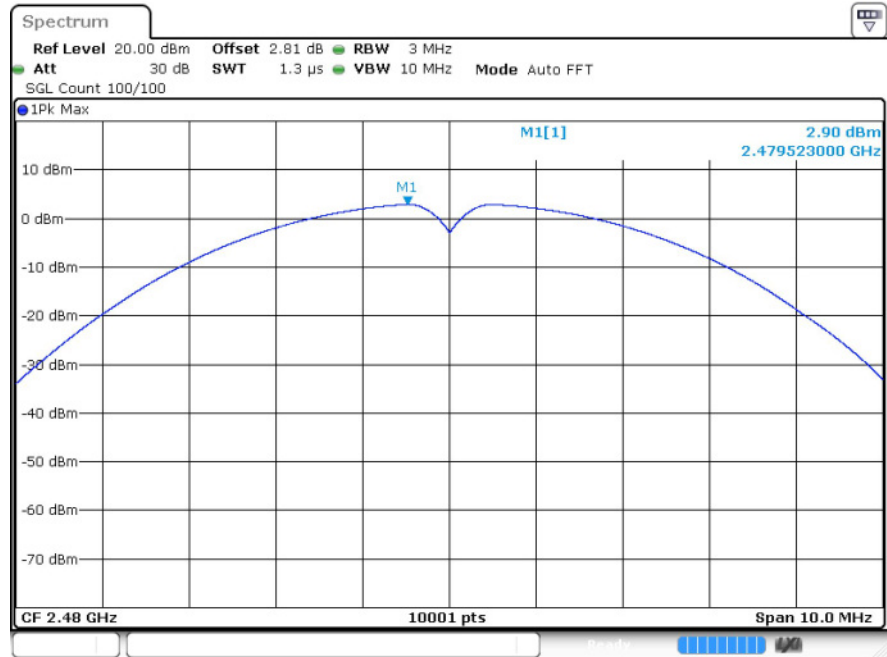
$\pi/4$ DQPSK/LCH



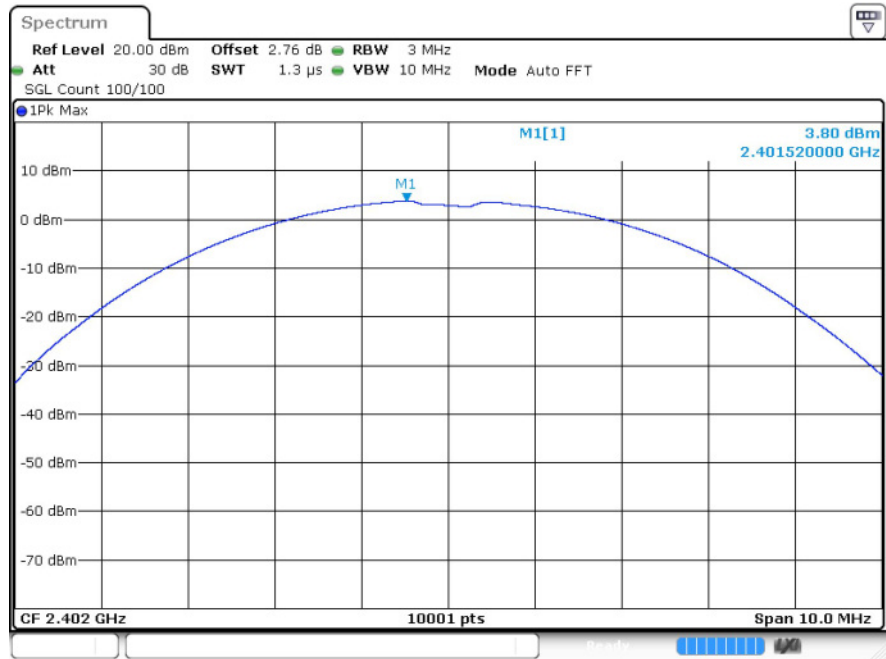
$\pi/4$ DQPSK/MCH



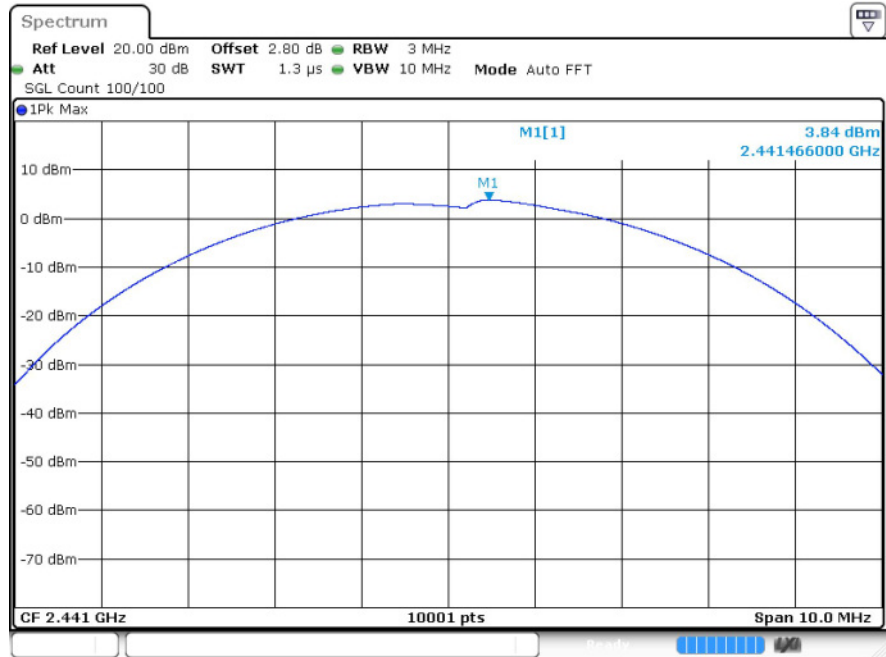
$\pi/4$ DQPSK/HCH



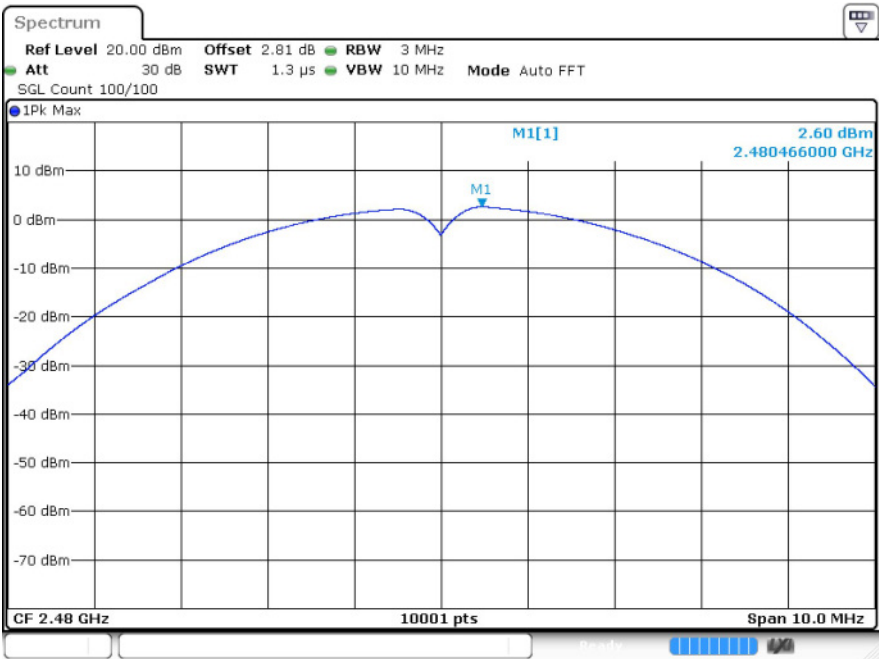
8DPSK/LCH



8DPSK/MCH



8DPSK/HCH

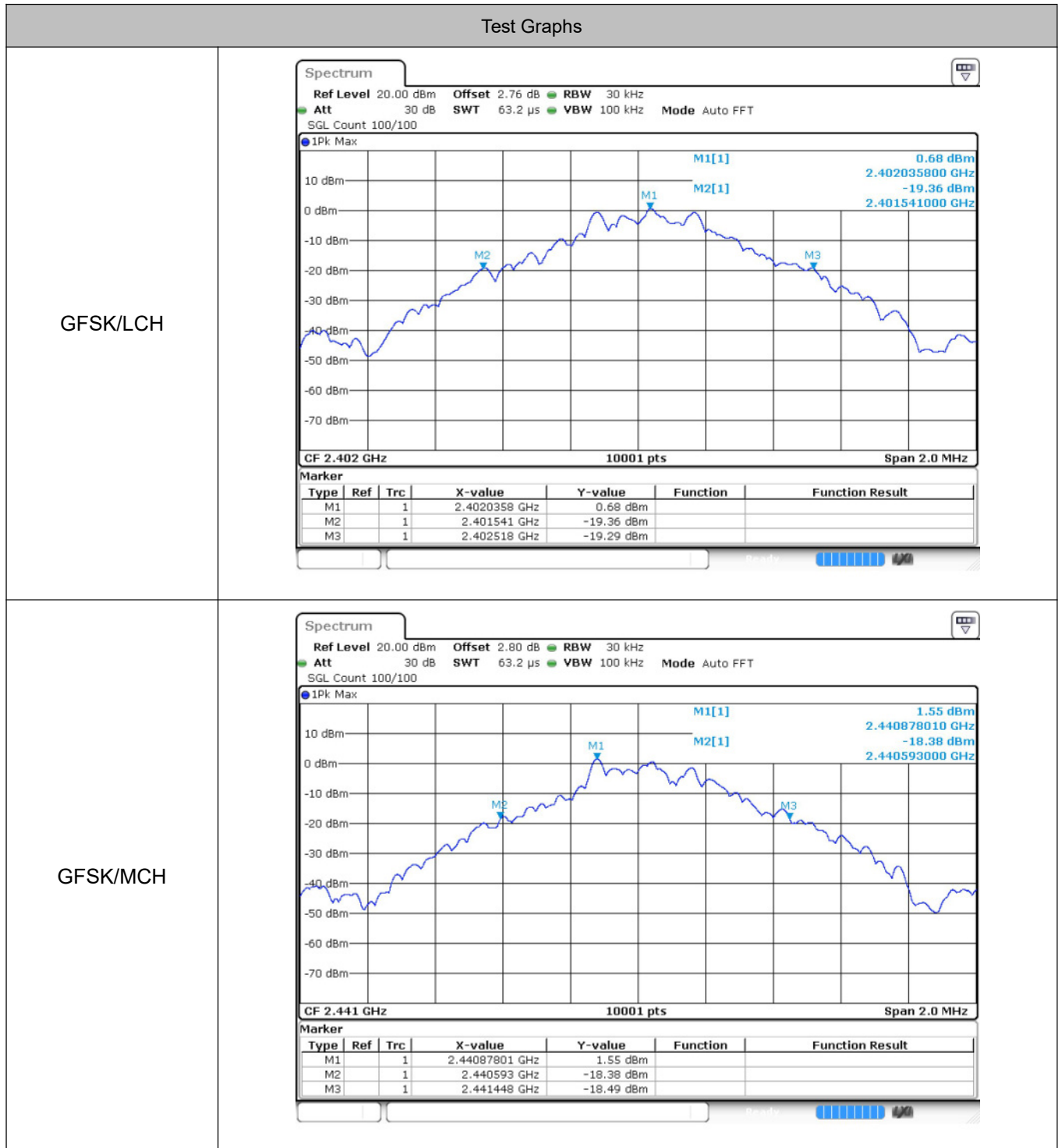


3 20dB Bandwidth

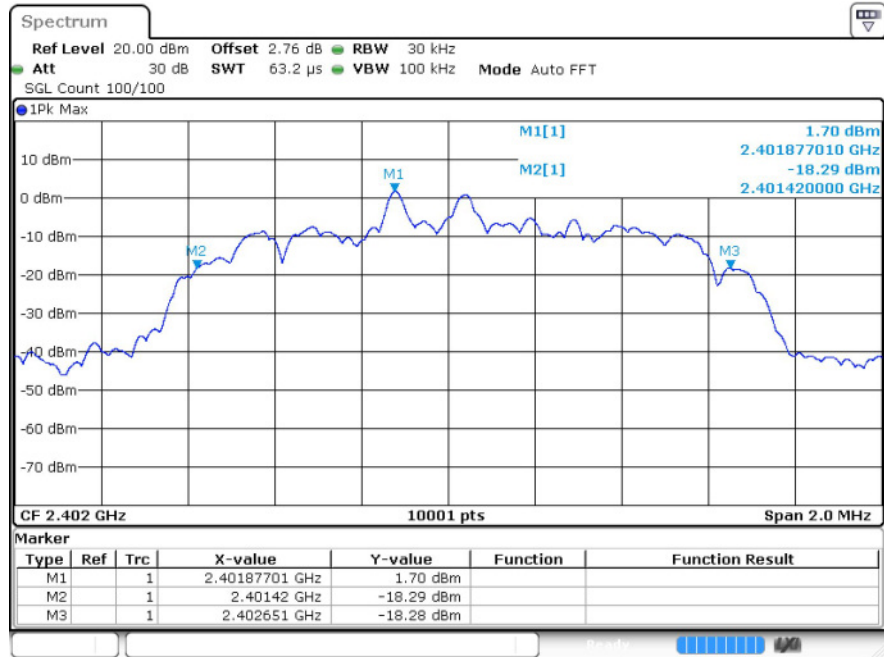
3.1 Test Result

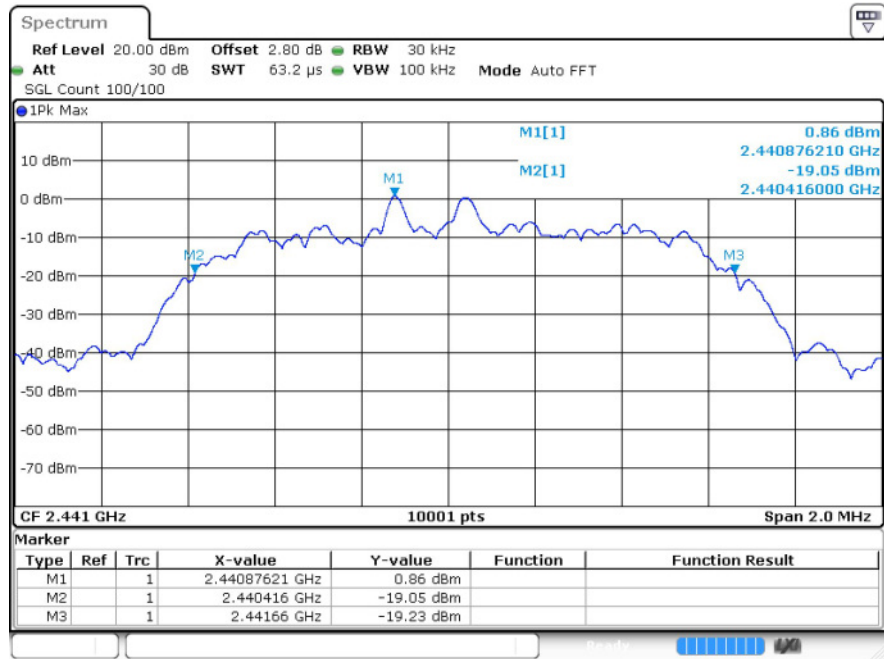
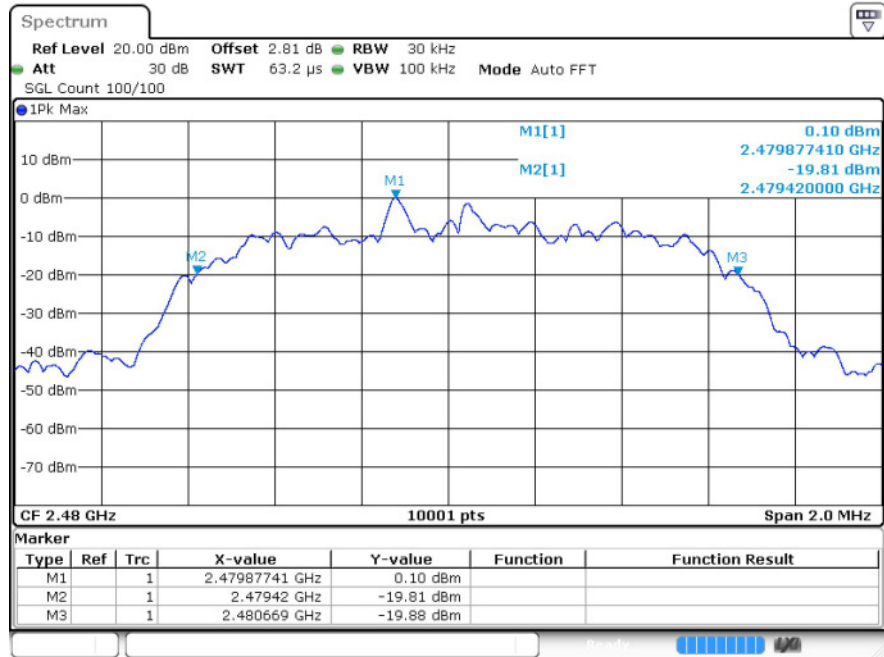
Mode	Channel.	20dB Bandwidth [MHz]	Limit [MHz]	Verdict
GFSK	LCH	0.977	Not Specified	Pass
	MCH	0.855	Not Specified	Pass
	HCH	0.855	Not Specified	Pass
$\pi/4$ DQPSK	LCH	1.232	Not Specified	Pass
	MCH	1.244	Not Specified	Pass
	HCH	1.249	Not Specified	Pass
8DPSK	LCH	1.193	Not Specified	Pass
	MCH	1.211	Not Specified	Pass
	HCH	1.212	Not Specified	Pass

3.2 Test Graphs

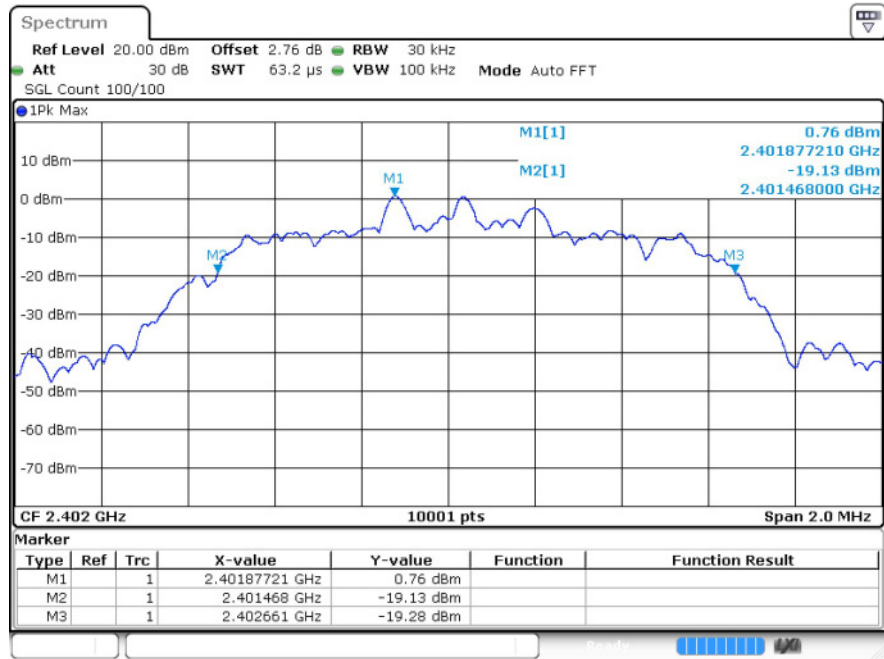


GFSK/HCH

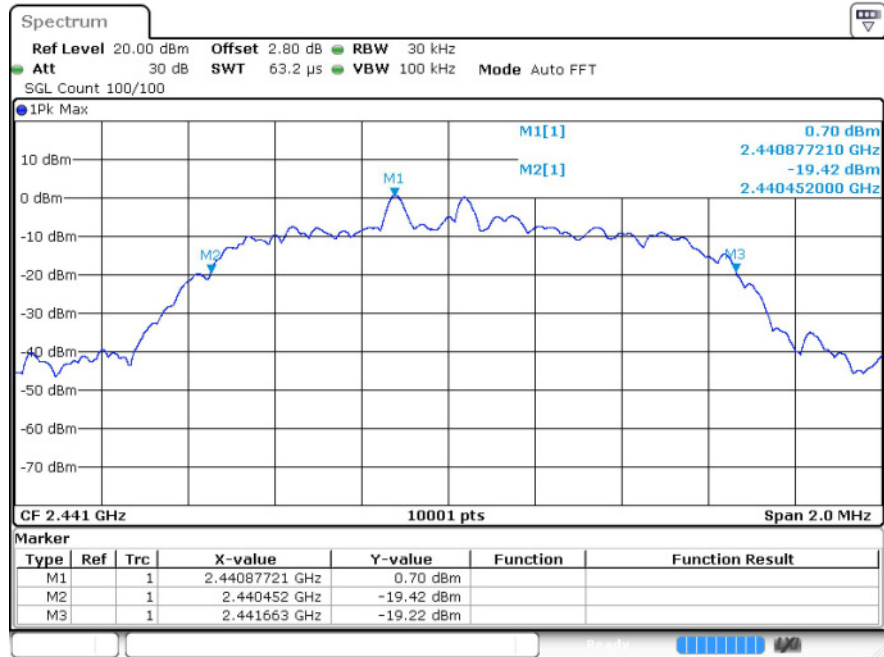

 $\pi/4$ DQPSK/LCH


$\pi/4$ DQPSK/MCH

 $\pi/4$ DQPSK/HCH


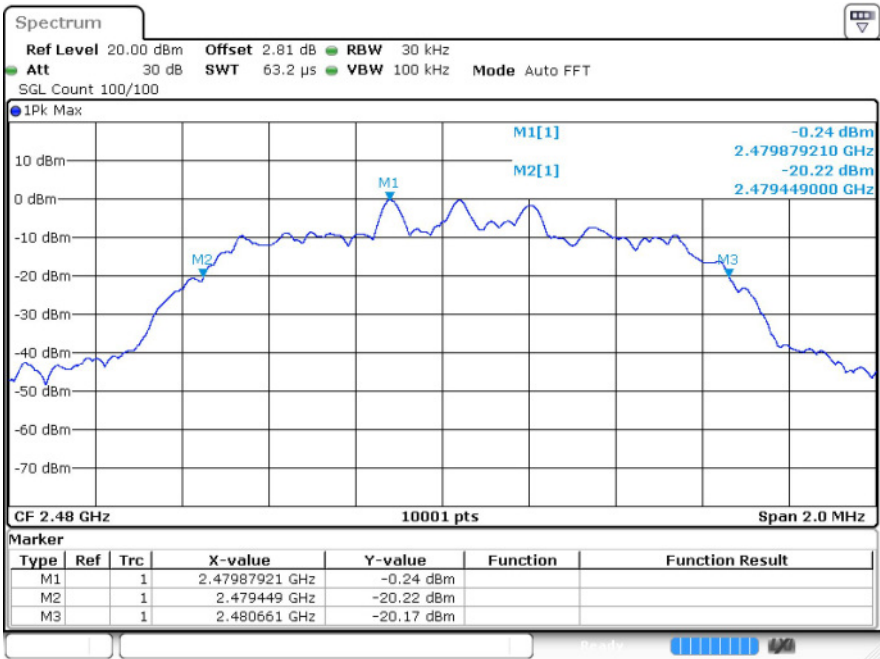
8DPSK/LCH



8DPSK/MCH



8DPSK/HCH

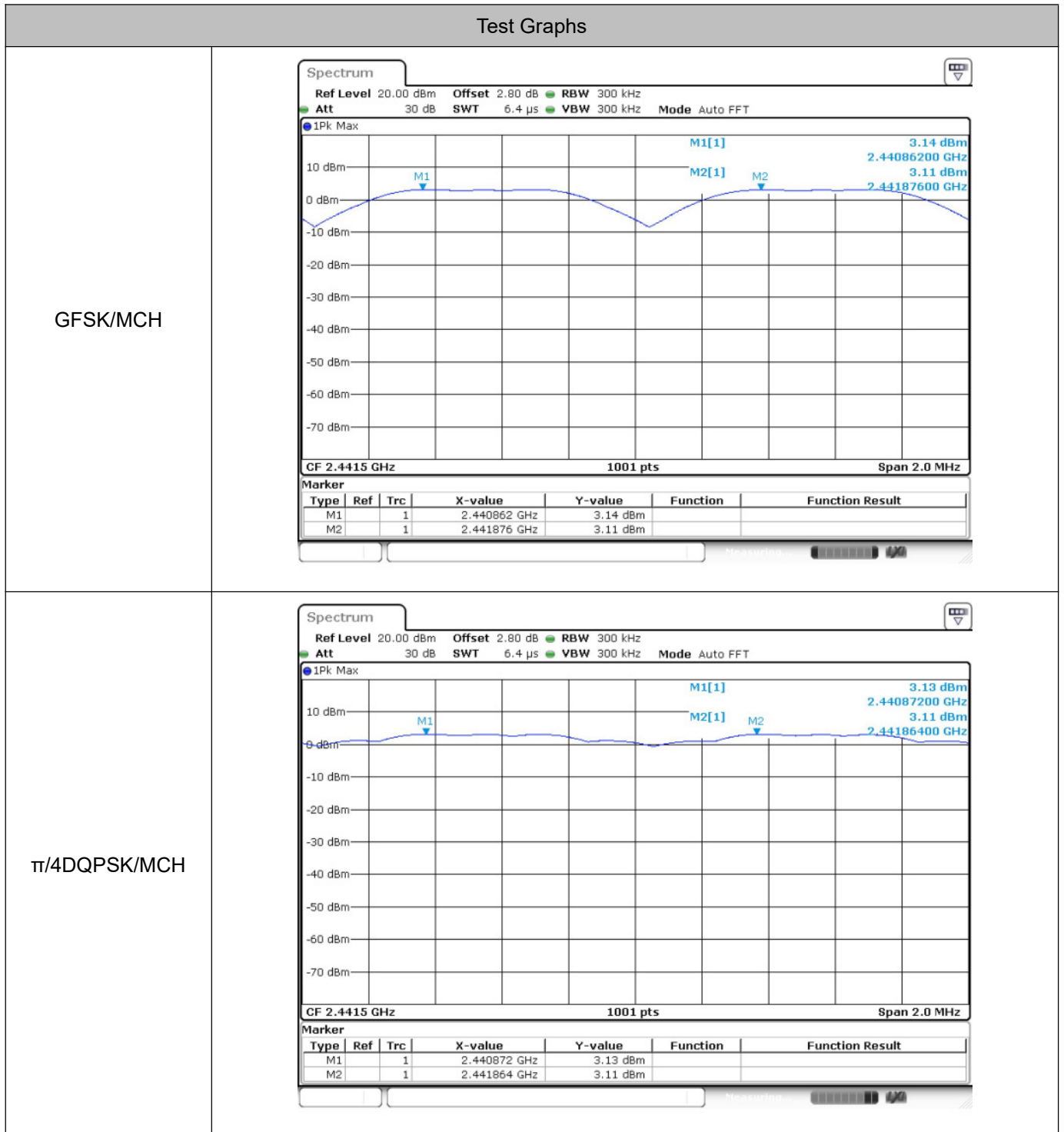


4 Carrier Frequency Separation

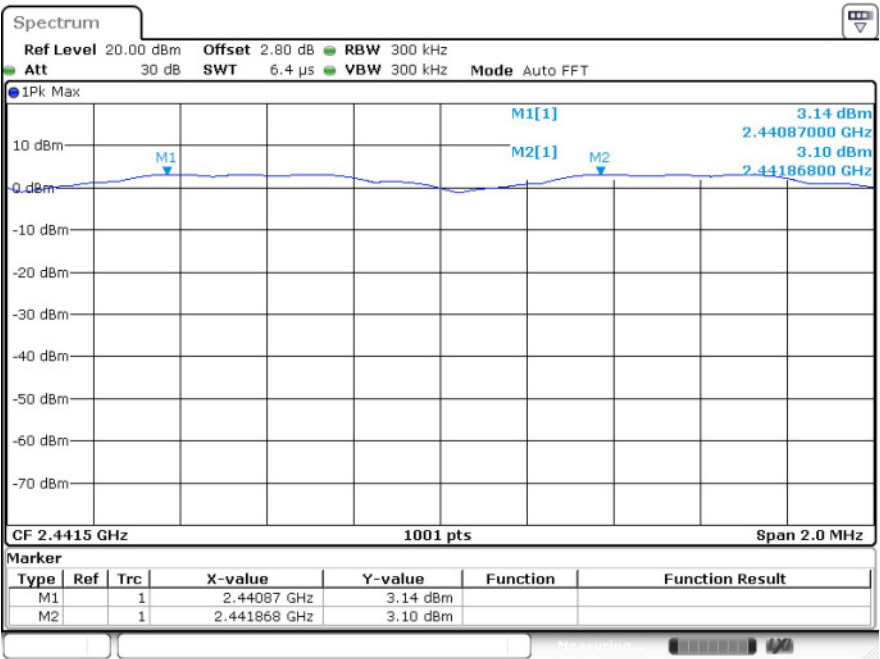
4.1 Test Result

Mode	Channel.	Carrier Frequency Separation [MHz]	Limit [MHz]	Verdict
GFSK	MCH	1.014	0.57	Pass
$\pi/4$ DQPSK	MCH	0.992	0.829	Pass
8DPSK	MCH	0.998	0.807	Pass

4.2 Test Graphs



8DPSK/MCH

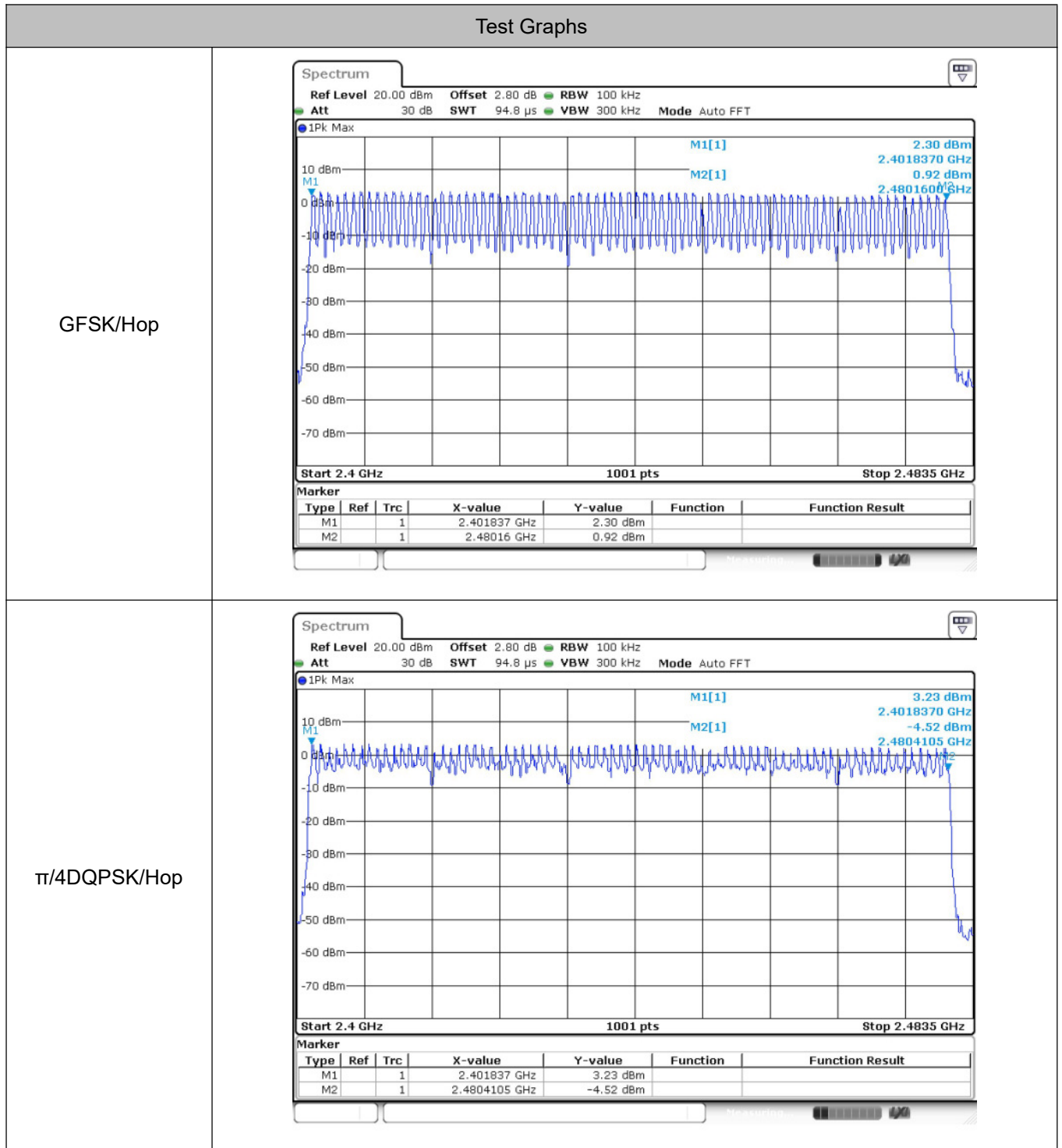


5 Hopping Channel Number

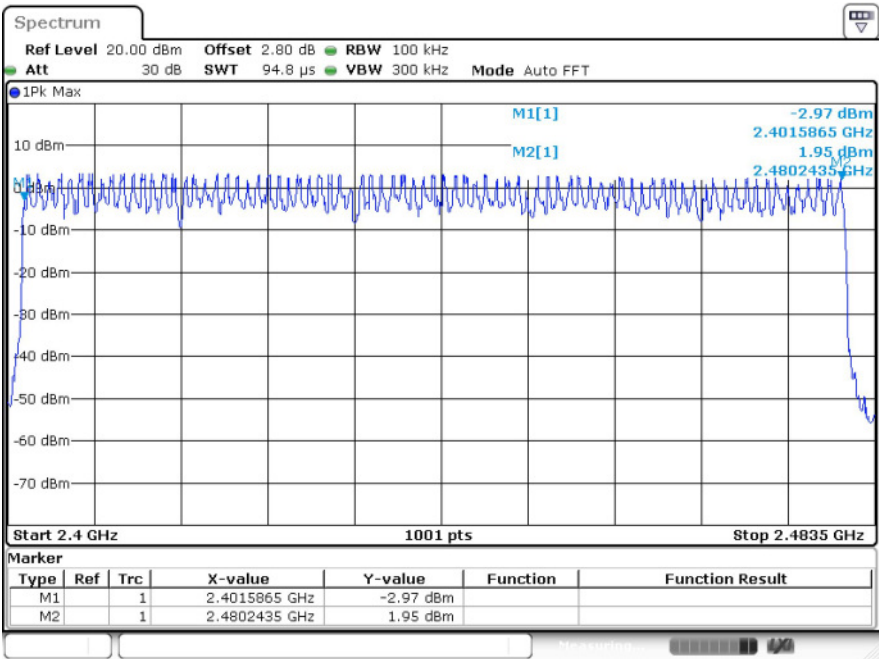
5.1 Test Result

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

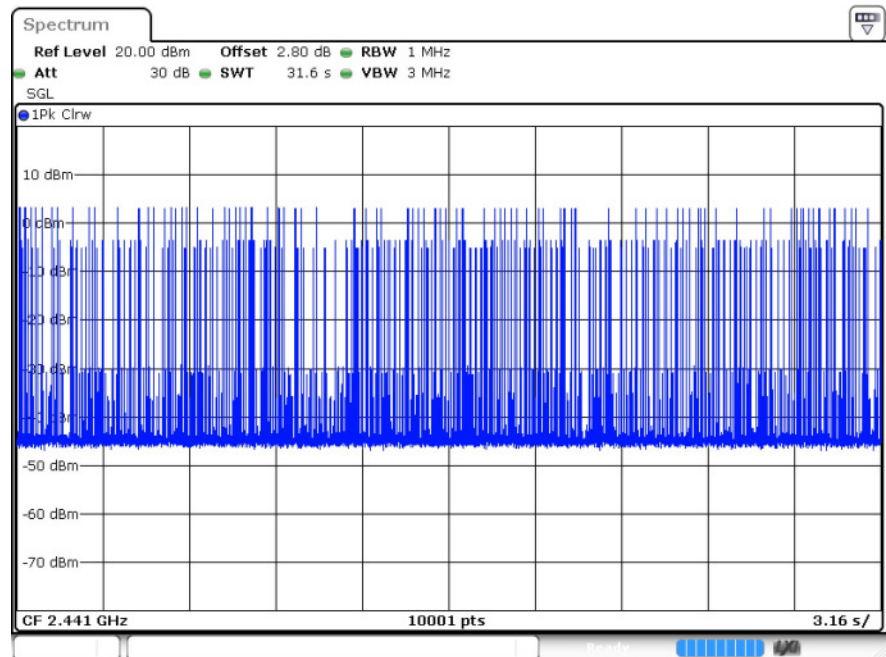
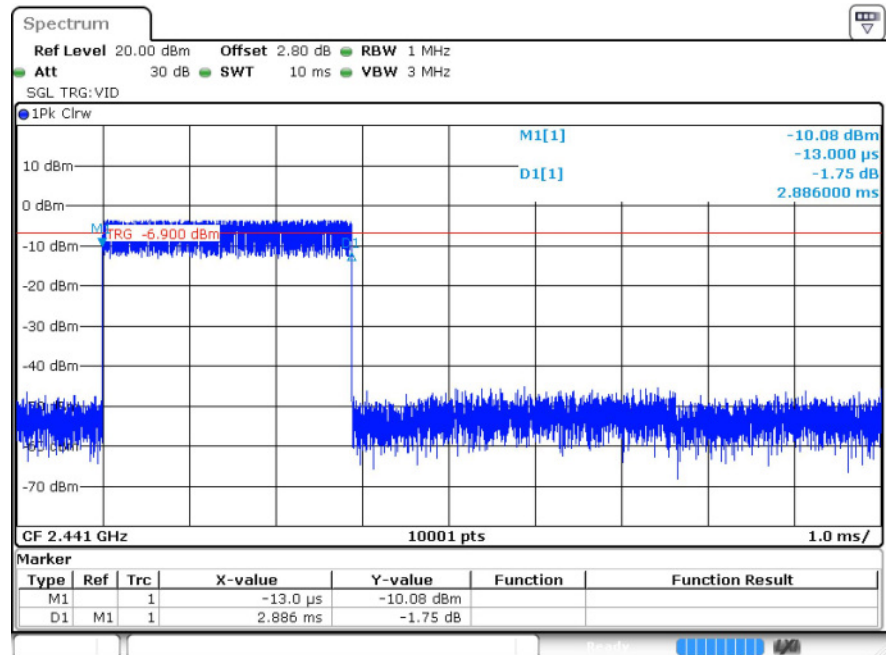
6.1 Test Result

Mode	Packet	Channel	Burst Width [ms/hop/ch]	Total Hops[hop*ch]	Dwell Time[ms]	Limit [s]	Verdict
GFSK	DH5	MCH	2.886	102	294.372	0.4	Pass
$\pi/4$ DQPSK	2DH5	MCH	2.891	91	263.081	0.4	Pass
8DPSK	3DH5	MCH	2.893	103	297.979	0.4	Pass

6.2 Test Graphs

Test Graphs

GFSK_DH5/MCH



Spectrum

Ref Level 20.00 dBm Offset 2.80 dB RBW 1 MHz

Att 30 dB SWT 31.6 s VBW 3 MHz

SGL

1Pk Clrw

10 dBm

0 dBm

-10 dBm

-20 dBm

-30 dBm

-40 dBm

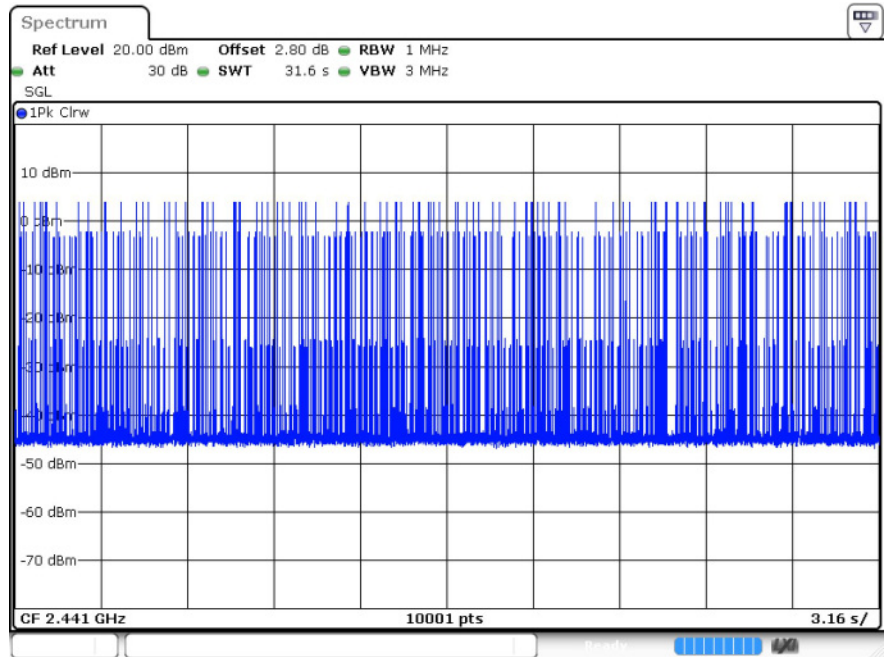
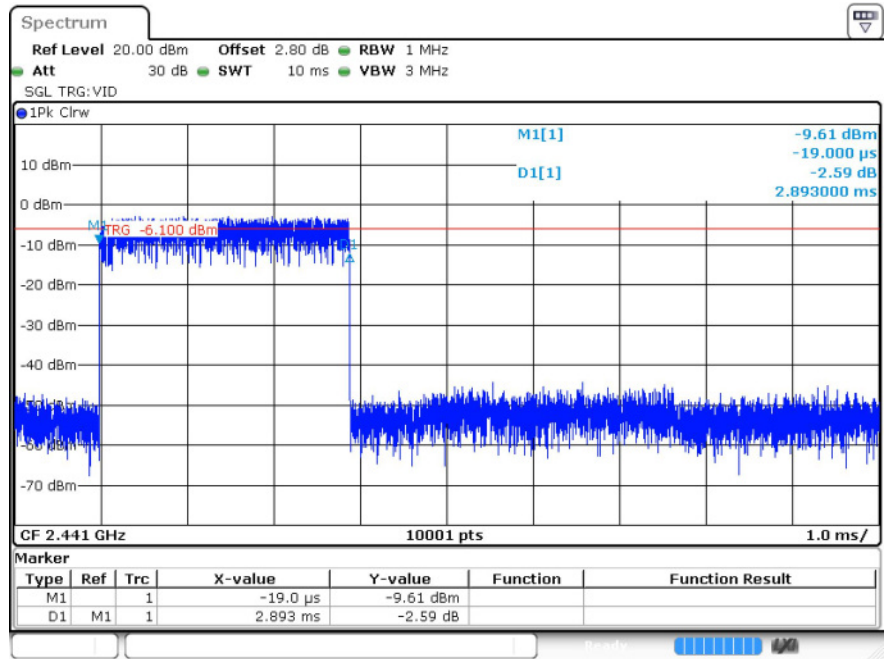
-50 dBm

-60 dBm

-70 dBm

CF 2.441 GHz 10001 pts 3.16 s/

8DPSK_3DH5/MCH

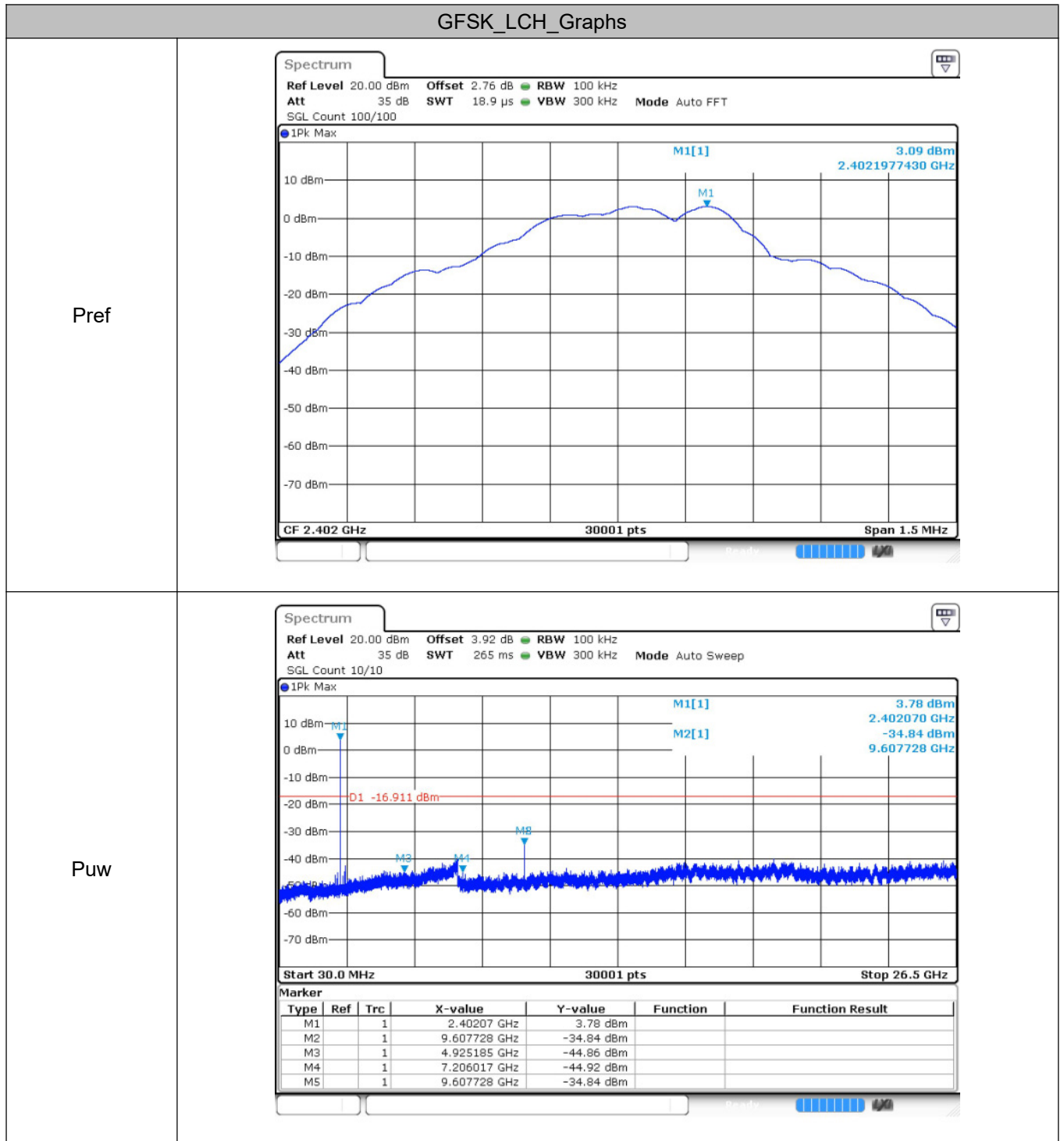


7 RF Conducted Spurious Emissions

7.1 Test Result

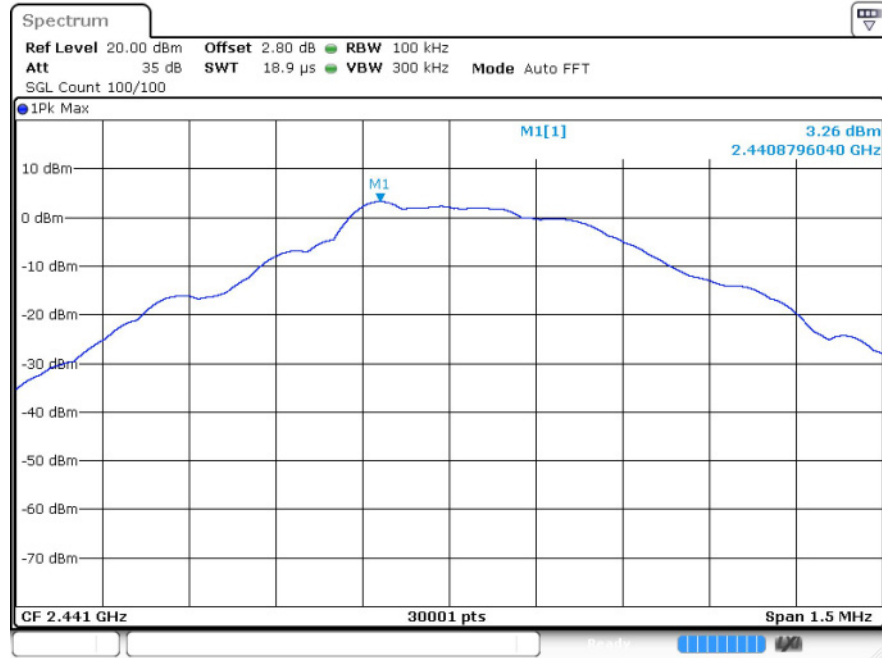
Mode	Channel	Max. Level [dBc]	Limit [dBc]	Verdict
GFSK	LCH	-37.93	-20	Pass
	MCH	-38.69	-20	Pass
	HCH	-39.65	-20	Pass
$\pi/4$ DQPSK	LCH	-38.03	-20	Pass
	MCH	-39.19	-20	Pass
	HCH	-39.33	-20	Pass
8DPSK	LCH	-36.69	-20	Pass
	MCH	-36.56	-20	Pass
	HCH	-39.3	-20	Pass

7.2 Test Graphs

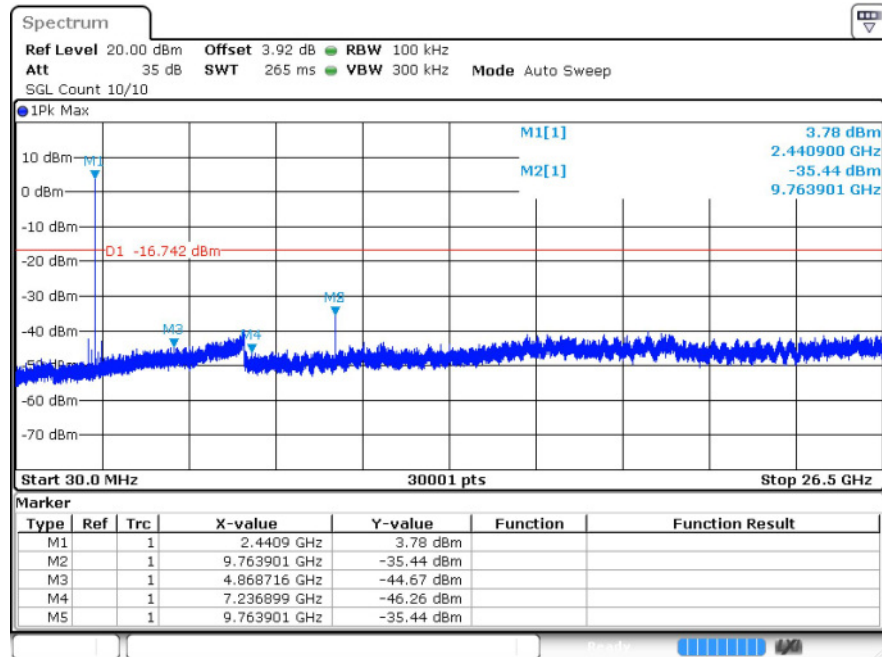


GFSK_MCH_Graphs

Pref

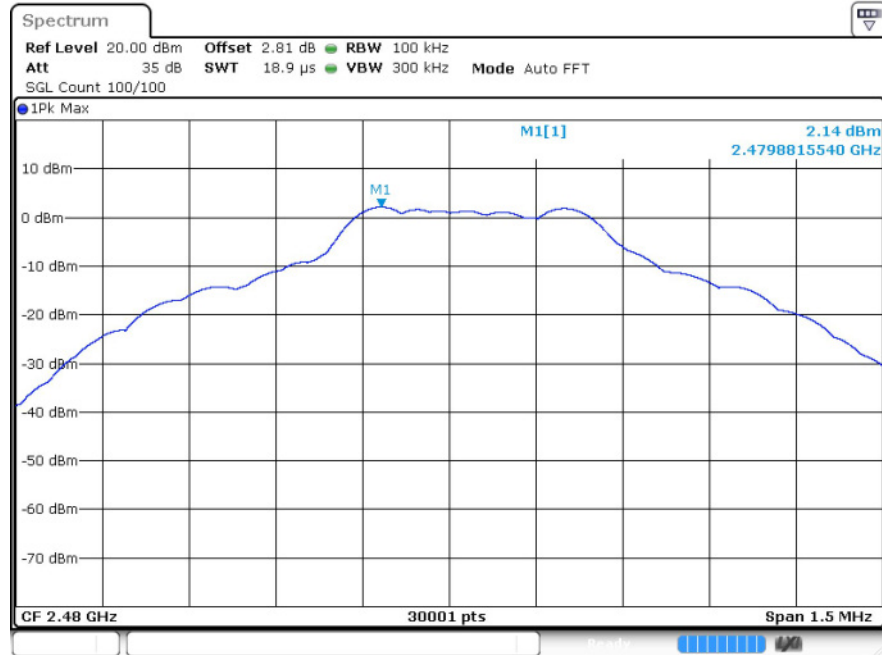


Puw

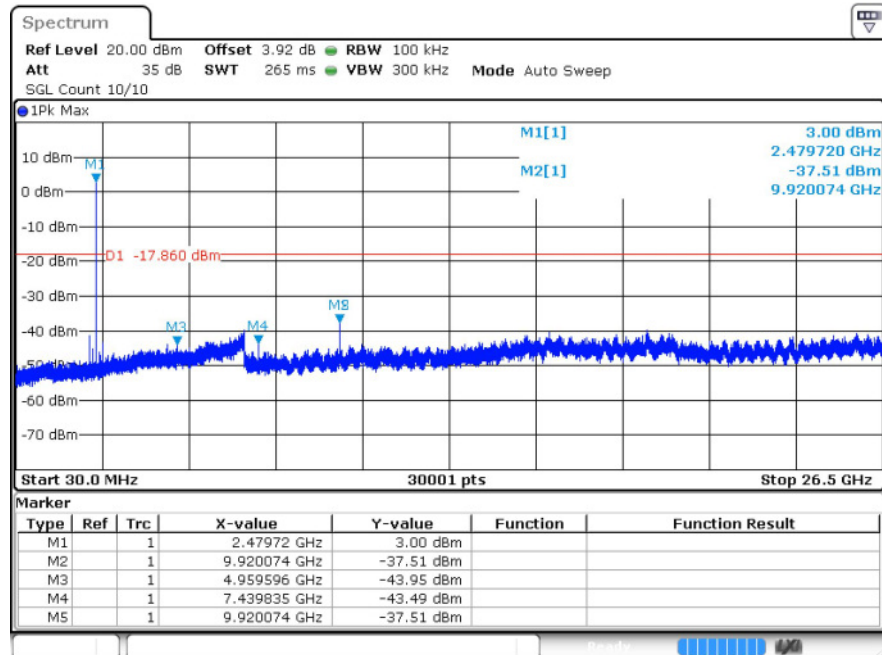


GFSK_HCH_Graphs

Pref

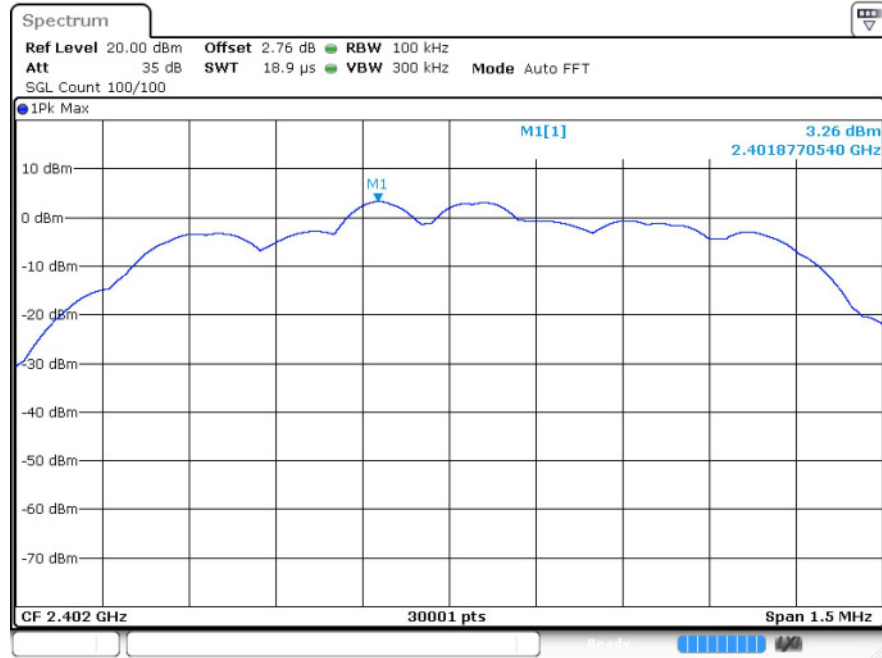


Puw

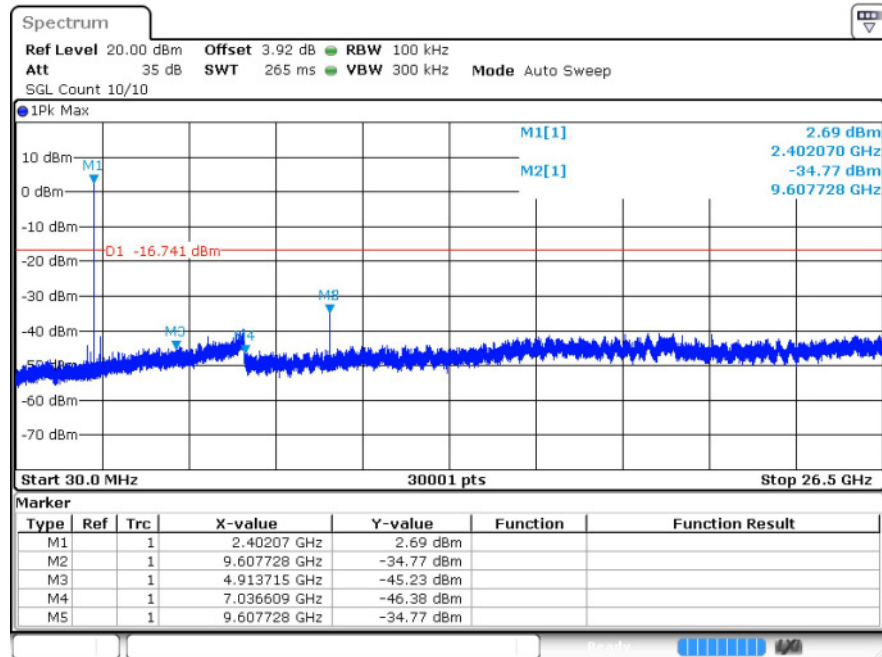


$\pi/4$ DQPSK_LCH_Graphs

Pref

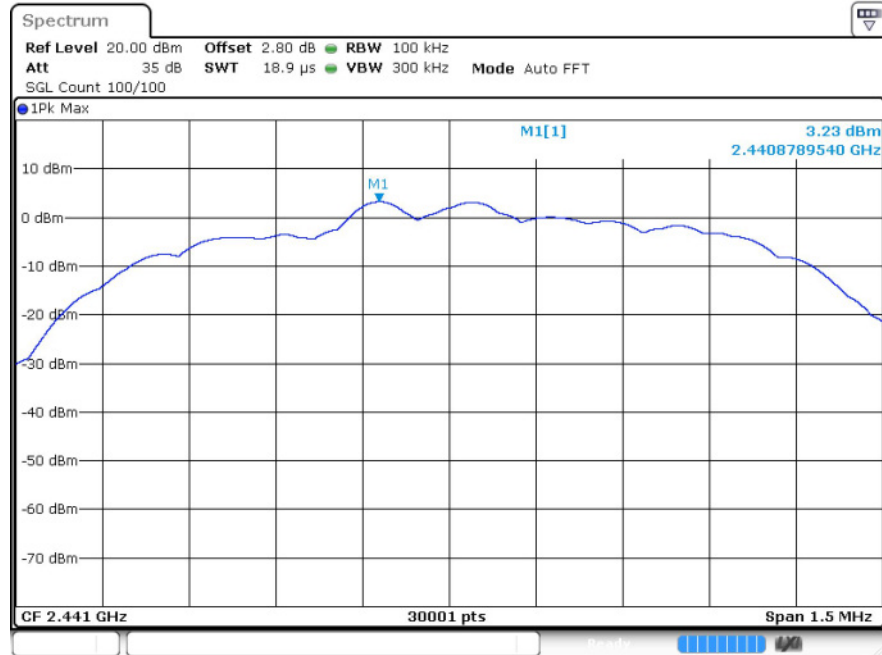


Puw

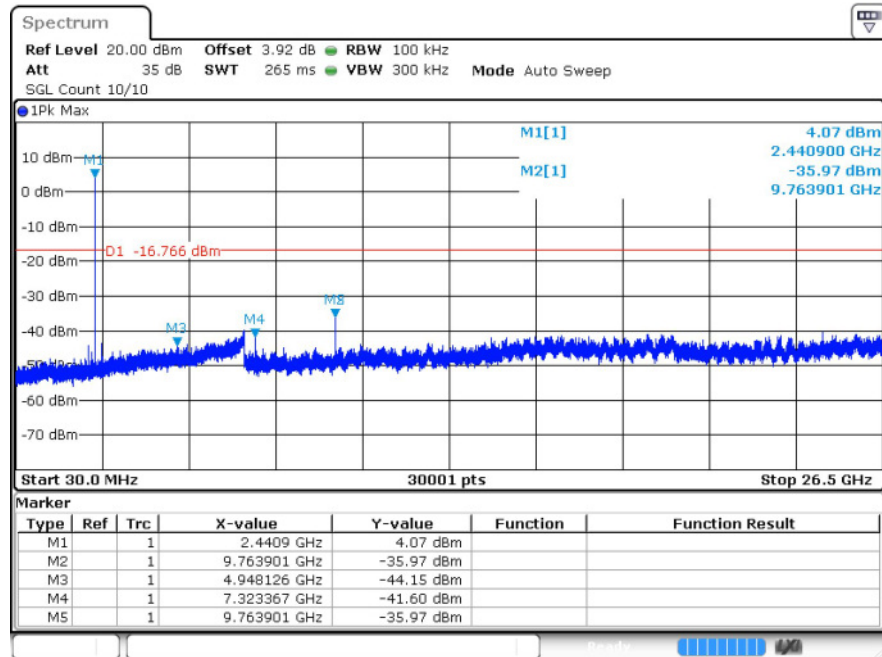


π /4DQPSK_MCH_Graphs

Pref

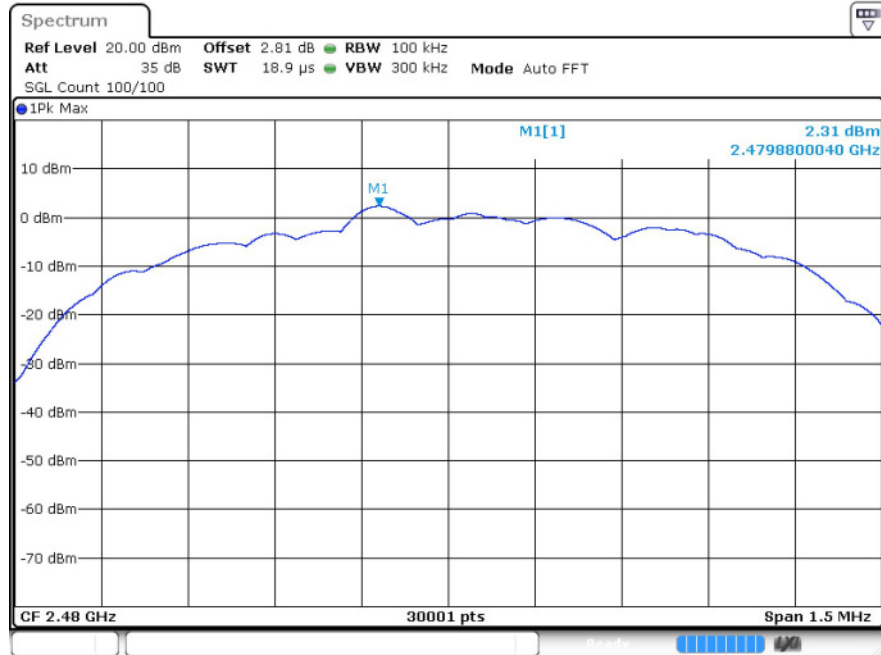


Puw



$\pi/4$ DQPSK_HCH_Graphs

Pref



Puw

