



Appendix A

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

Product Name: True Wireless Earbuds

Trade Mark: N/A

Test Model: NC6i

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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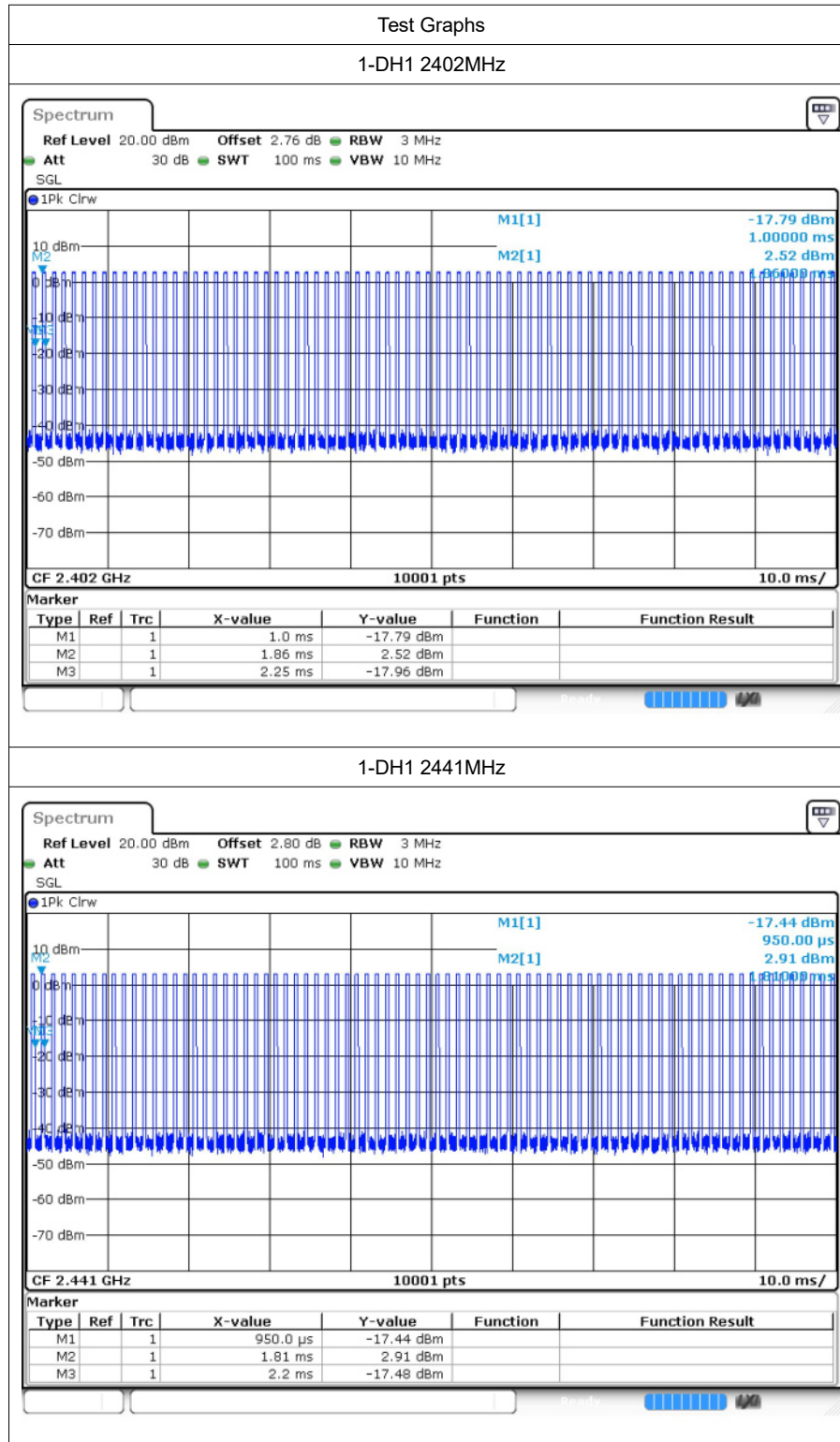
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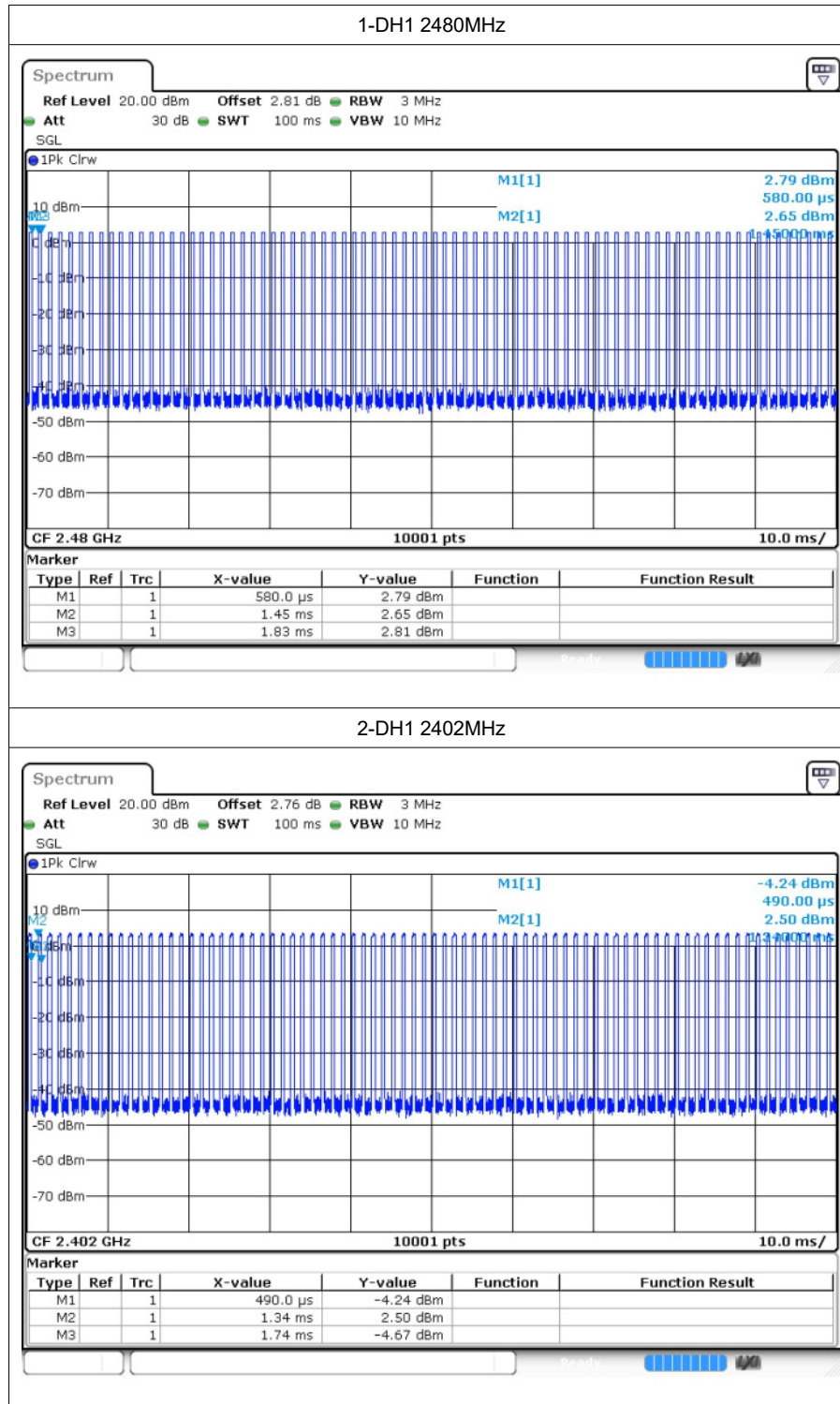
1 Duty Cycle

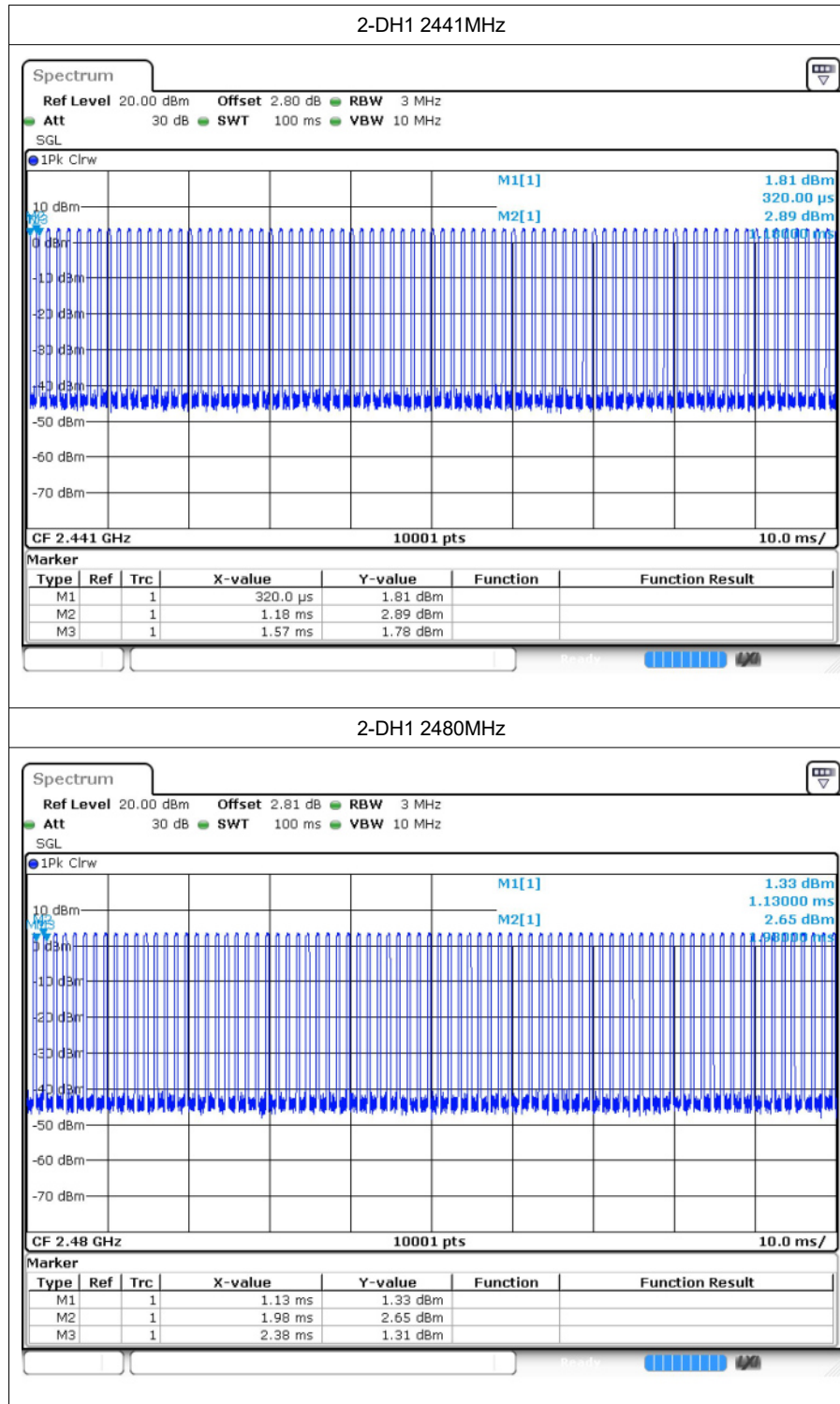
1.1 Test Result

Mode	Frequency (MHz)	Duty Cycle (%)	Correction Factor	1/T (kHz)
1-DH1	2402	32	4.95	2.56
1-DH1	2441	32	4.95	2.56
1-DH1	2480	31.45	5.02	2.63
2-DH1	2402	32.28	4.91	2.5
2-DH1	2441	32.01	4.95	2.56
2-DH1	2480	32.65	4.86	2.5

1.2 Test Graphs





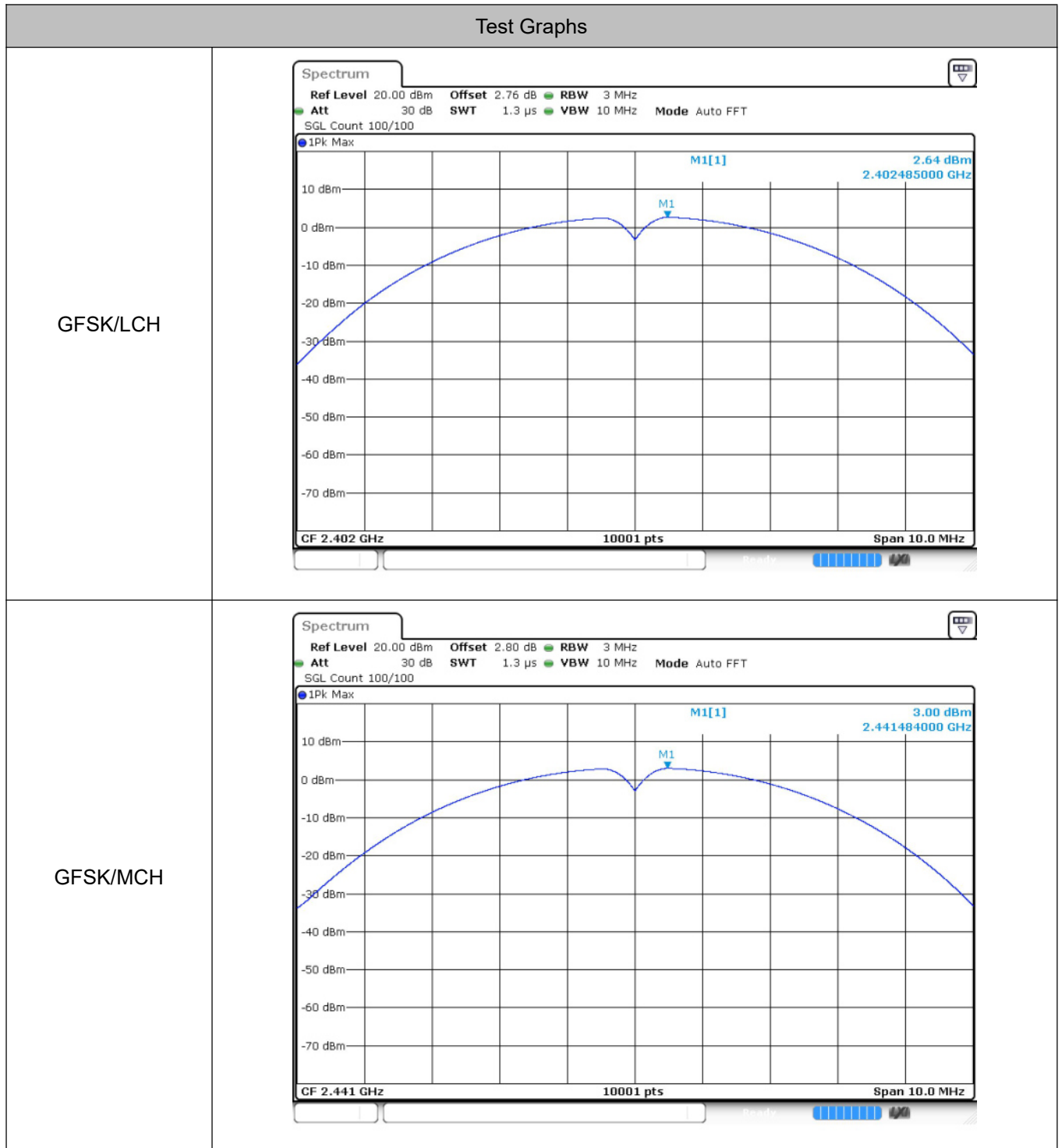


2 Maximum Conducted Peak Output Power

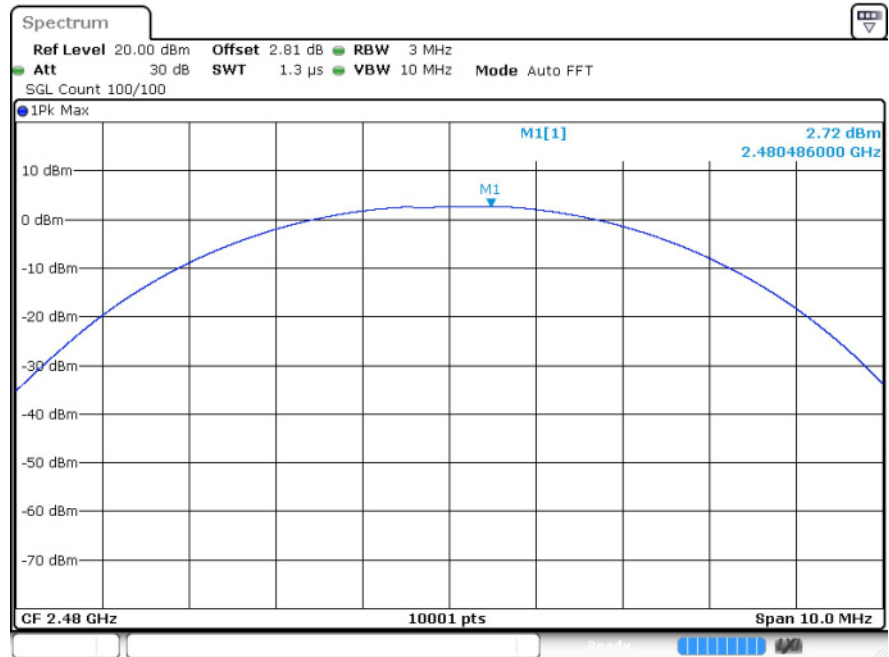
2.1 Test Result

Mode	Channel.	Maximum Peak Output Power [dBm]	Limit [dBm]	Verdict
GFSK	LCH	2.64	21	Pass
	MCH	3	21	Pass
	HCH	2.72	21	Pass
$\pi/4$ DQPSK	LCH	2.93	21	Pass
	MCH	3	21	Pass
	HCH	3.15	21	Pass

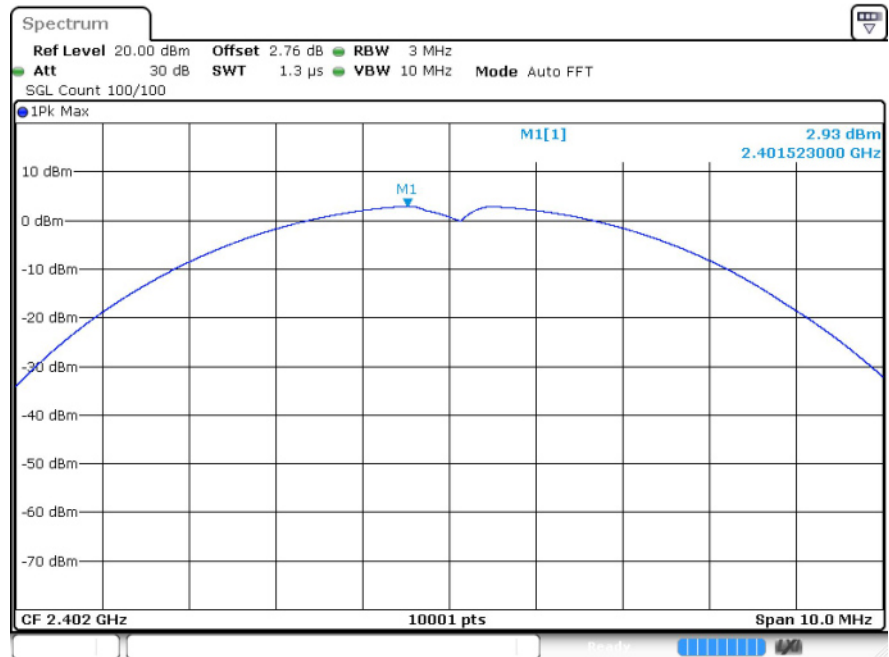
2.2 Test Graphs



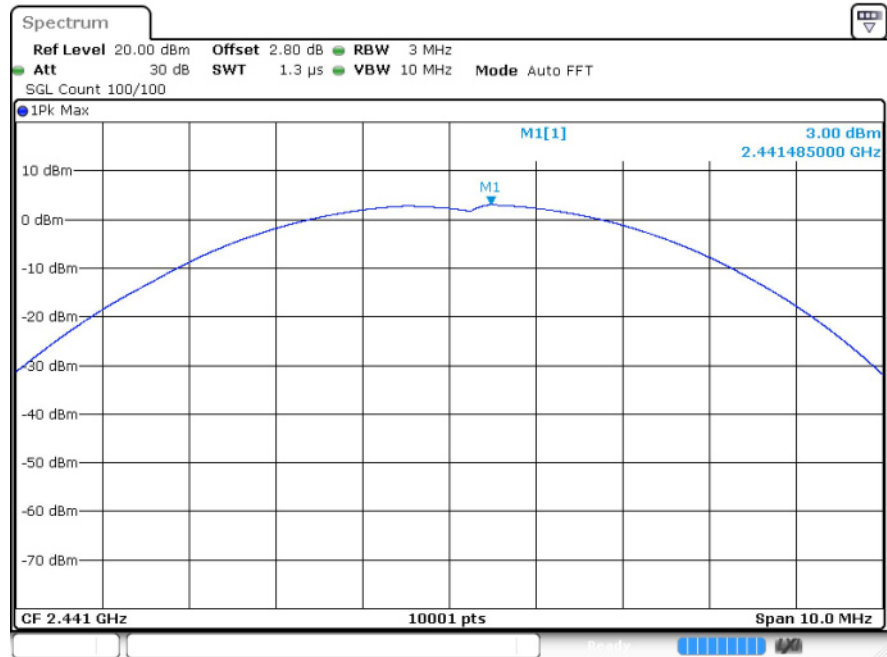
GFSK/HCH



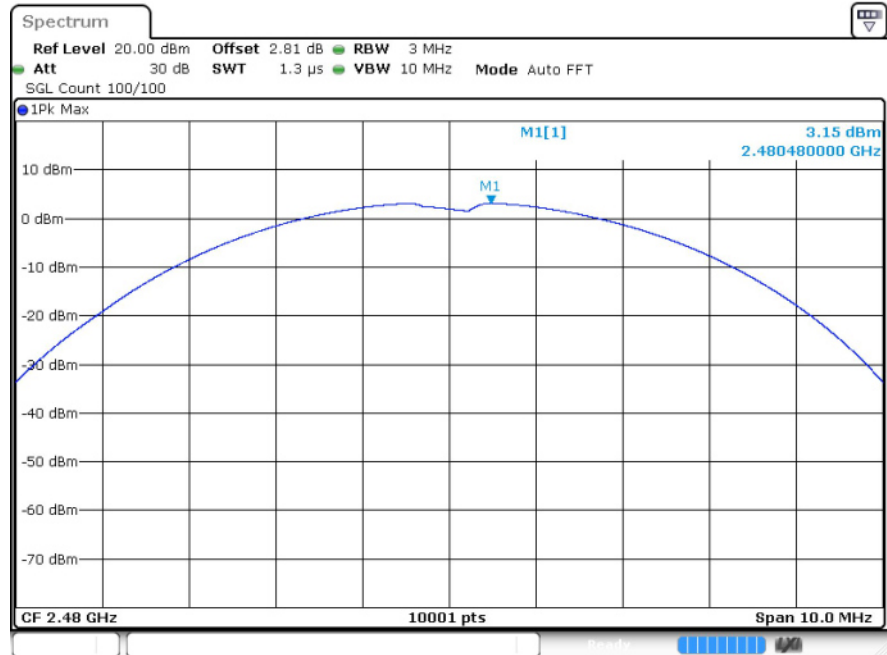
$\pi/4$ DQPSK/LCH



$\pi/4$ DQPSK/MCH



$\pi/4$ DQPSK/HCH

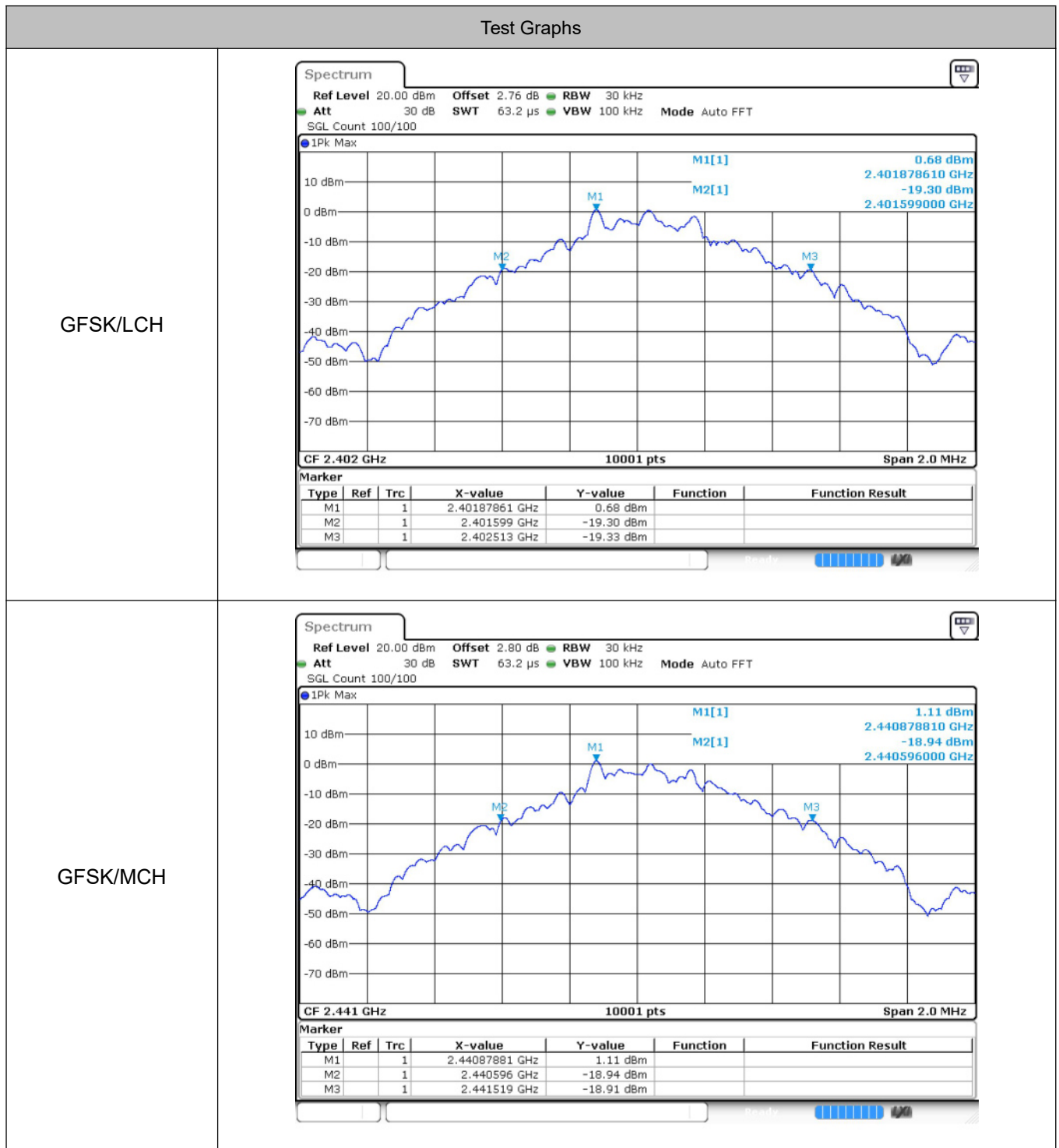


3 20dB Bandwidth

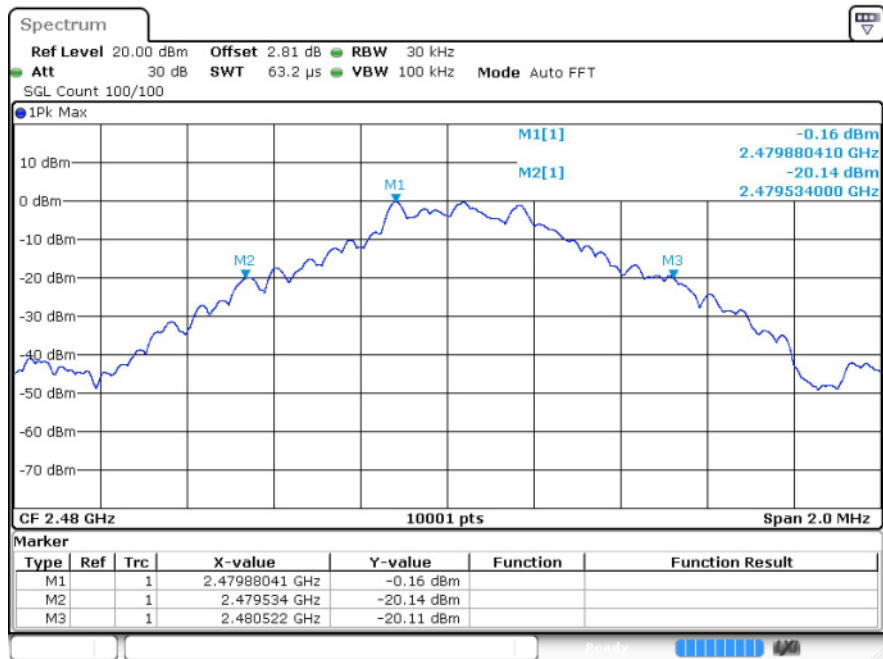
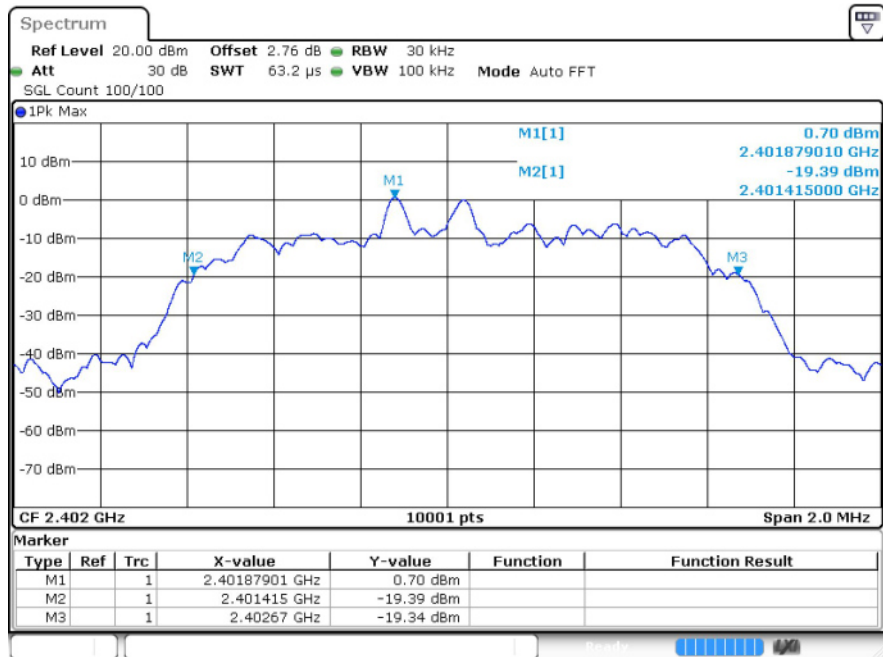
3.1 Test Result

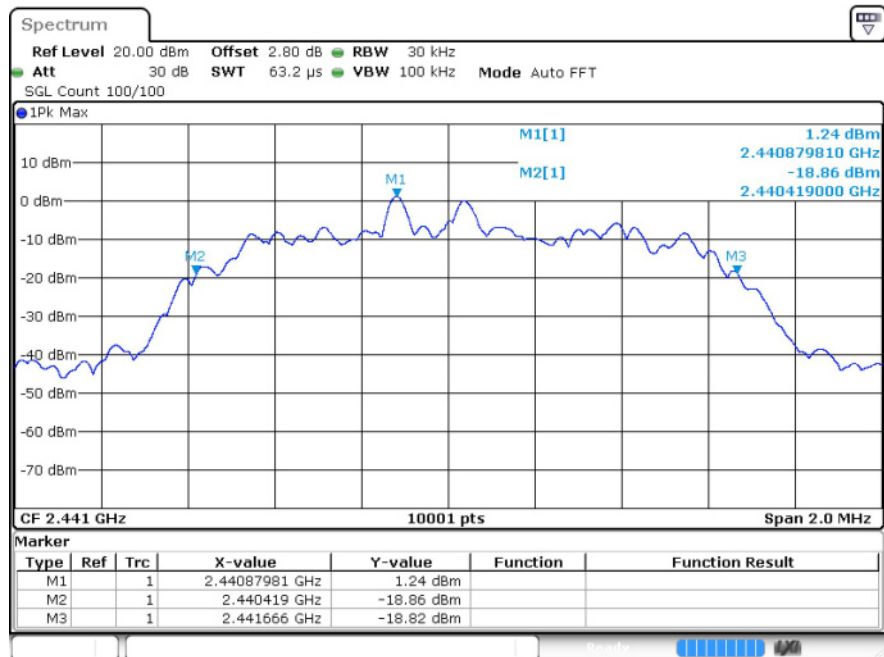
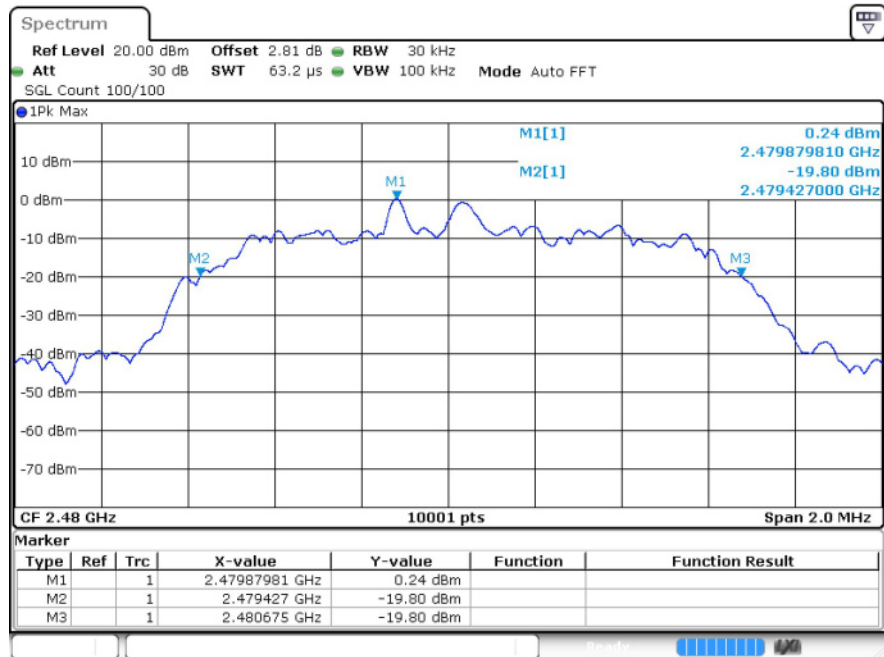
Mode	Channel.	20dB Bandwidth [MHz]	Limit [MHz]	Verdict
GFSK	LCH	0.914	Not Specified	Pass
	MCH	0.923	Not Specified	Pass
	HCH	0.988	Not Specified	Pass
$\pi/4$ DQPSK	LCH	1.254	Not Specified	Pass
	MCH	1.246	Not Specified	Pass
	HCH	1.247	Not Specified	Pass

3.2 Test Graphs



GFSK/HCH


 $\pi/4$ DQPSK/LCH


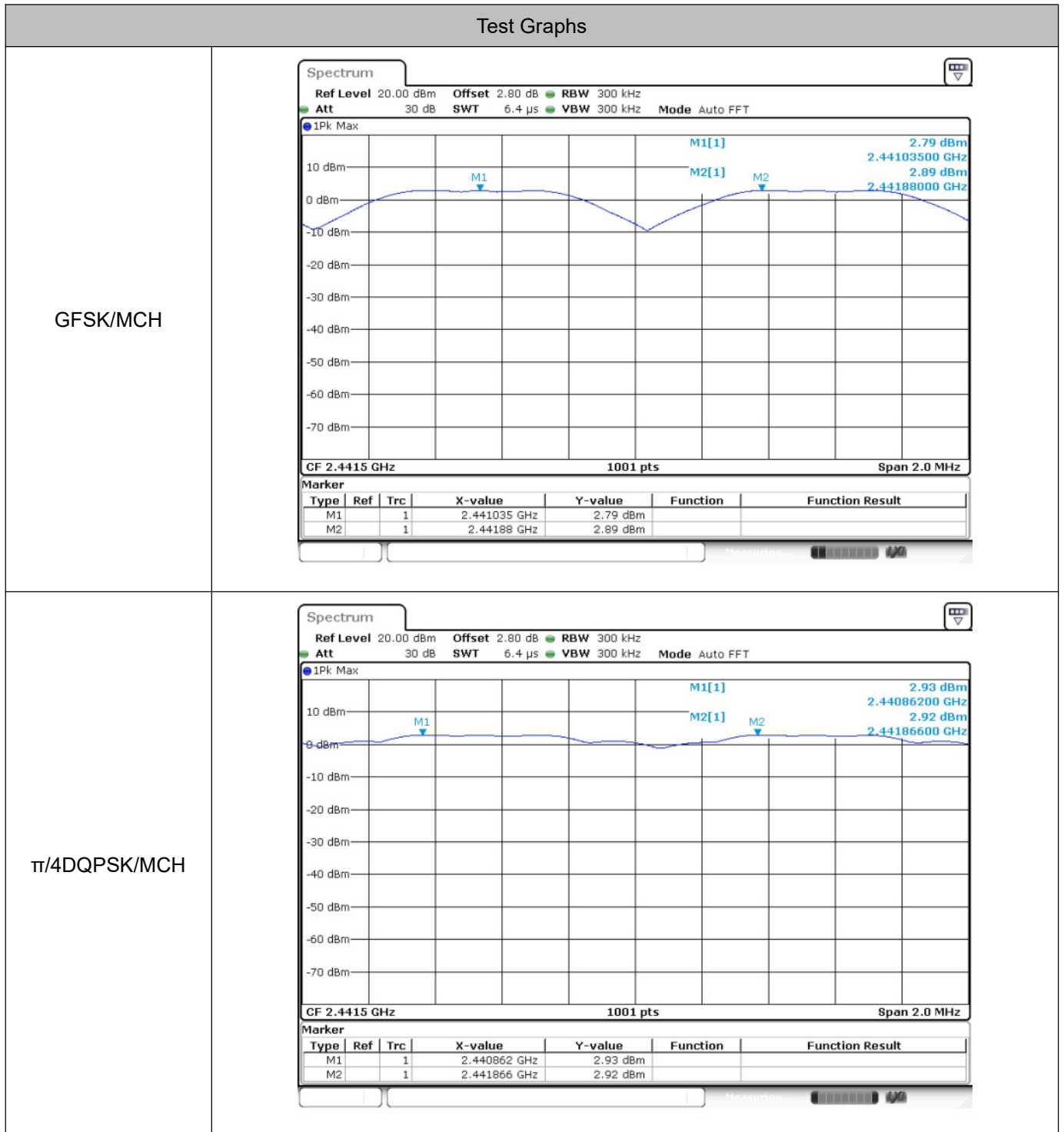
$\pi/4$ DQPSK/MCH

 $\pi/4$ DQPSK/HCH


4 Carrier Frequency Separation

4.1 Test Result

Mode	Channel.	Carrier Frequency Separation [MHz]	Limit [MHz]	Verdict
GFSK	MCH	0.845	0.615	Pass
$\pi/4$ DQPSK	MCH	1.004	0.831	Pass

4.2 Test Graphs

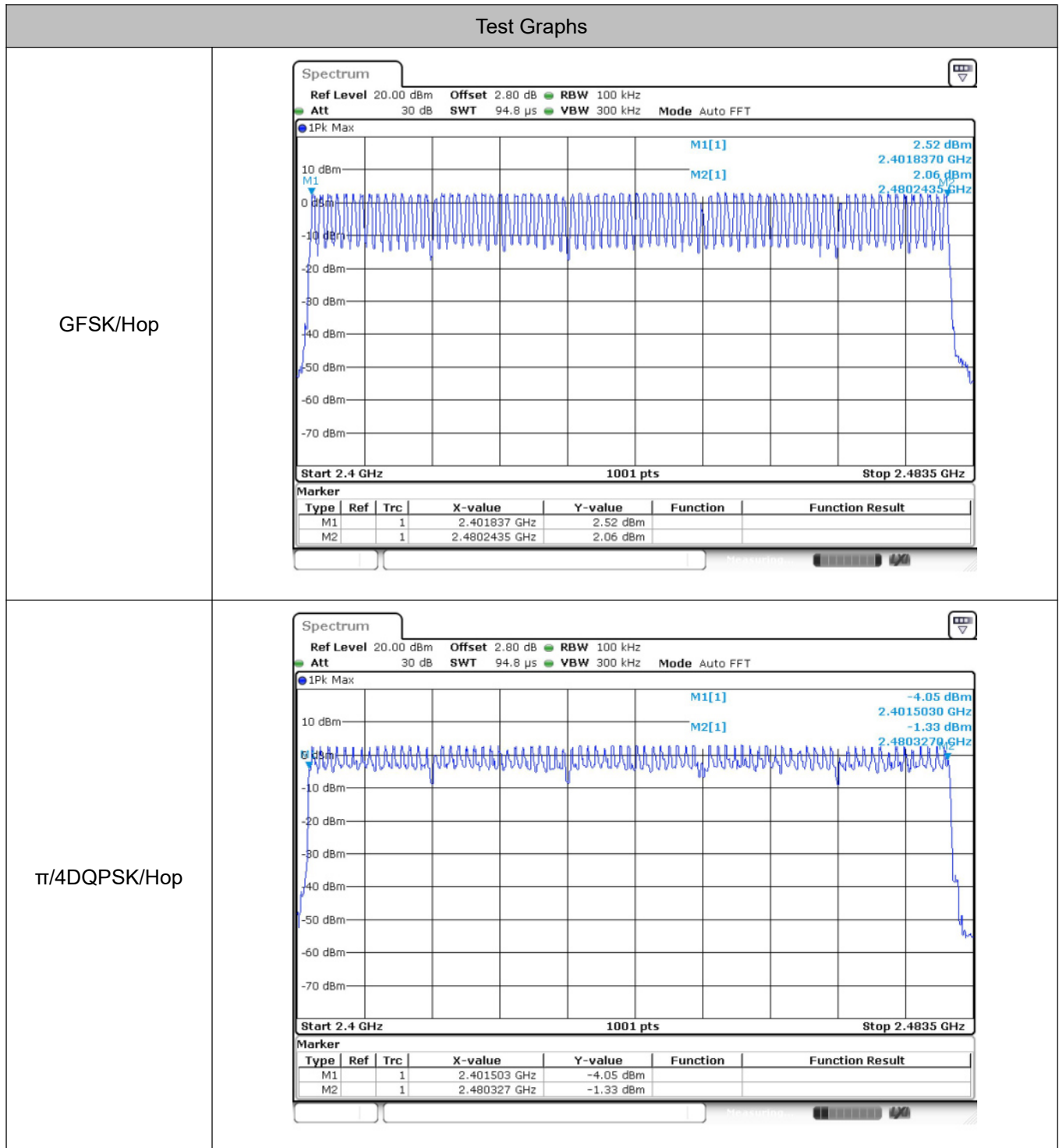


5 Hopping Channel Number

5.1 Test Result

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

5.2 Test Graphs

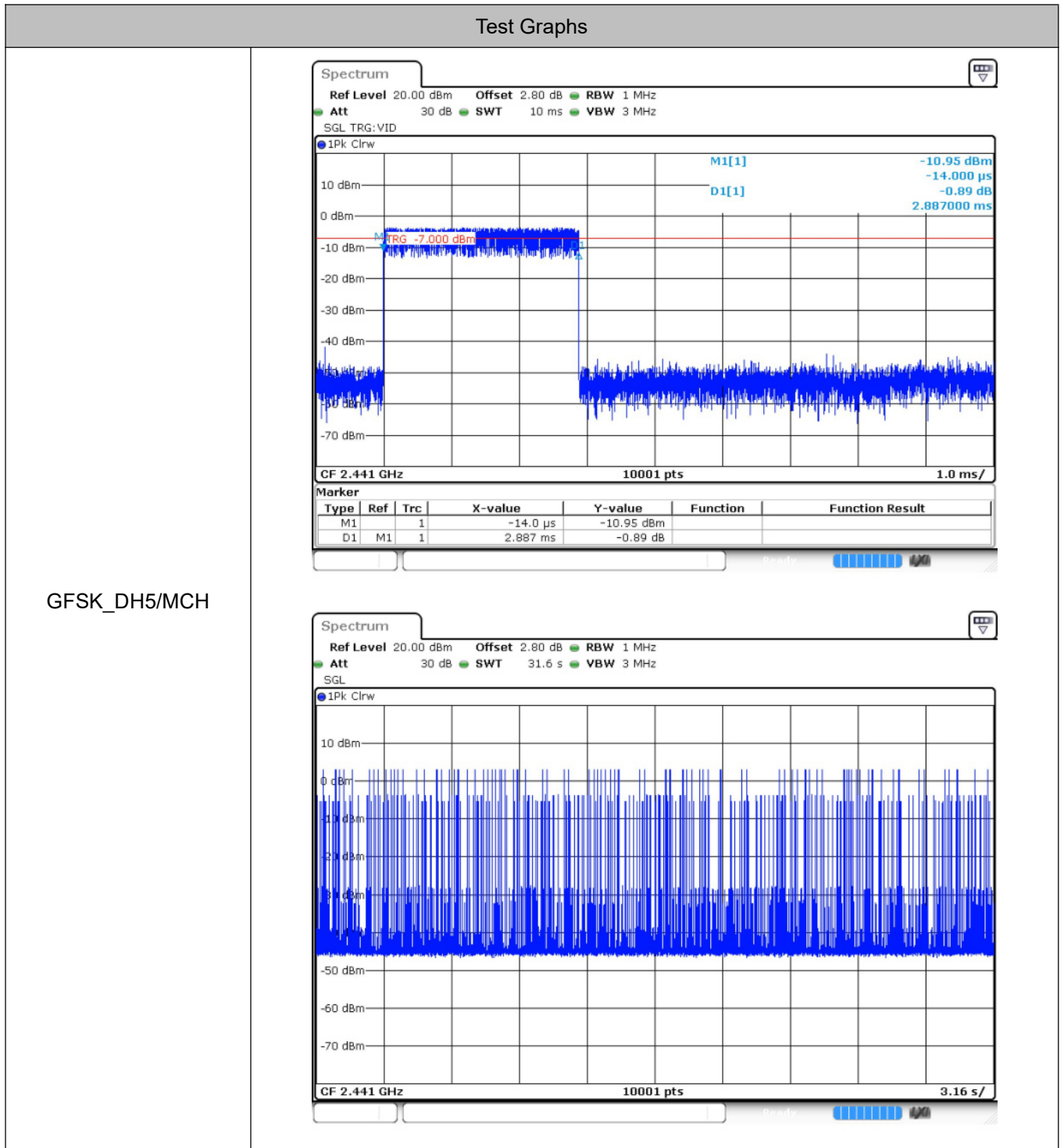


6 Dwell Time

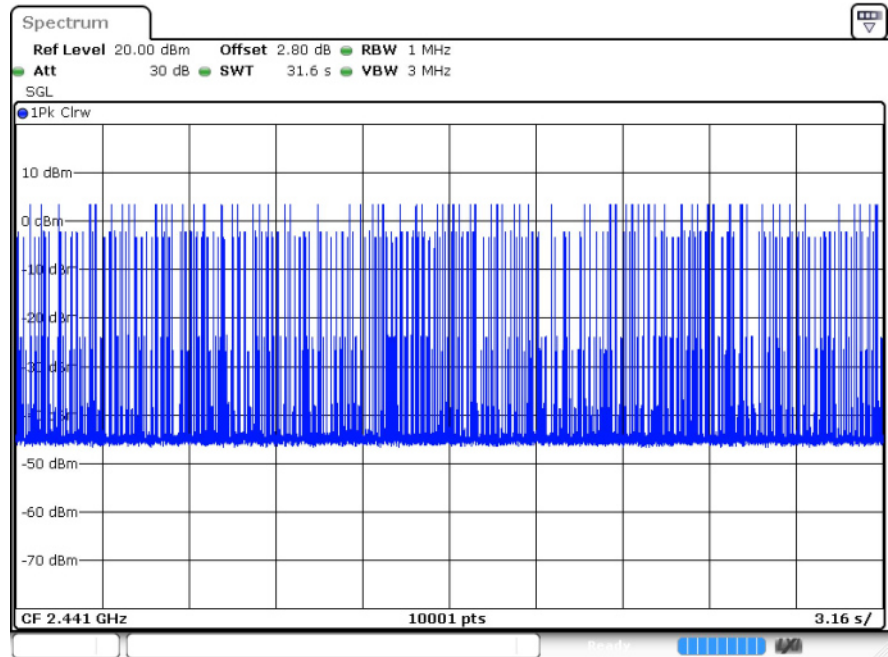
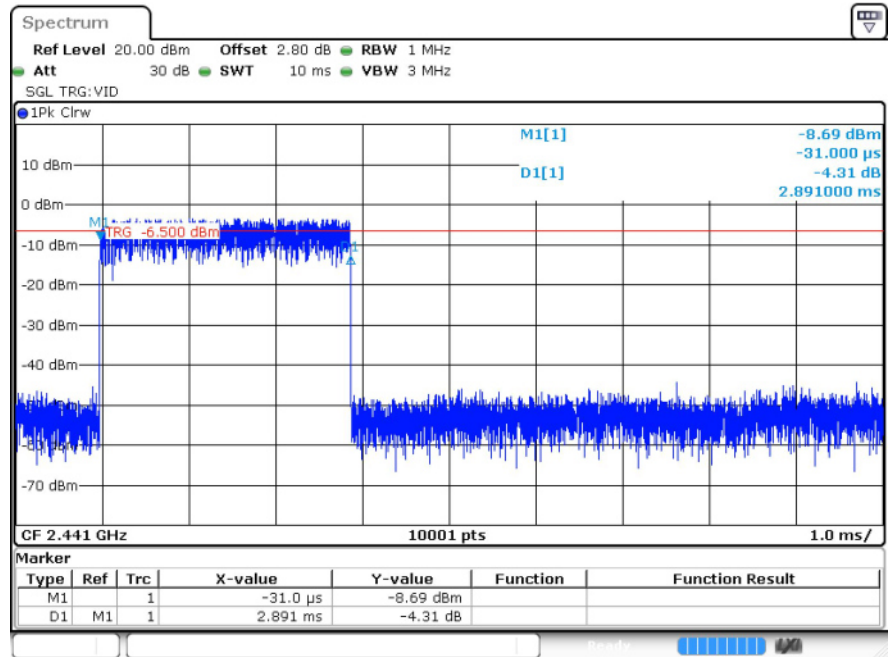
6.1 Test Result

Mode	Packet	Channel	Burst Width [ms/hop/ch]	Total Hops[hop*ch]	Dwell Time[ms]	Limit [s]	Verdict
GFSK	DH5	MCH	2.887	96	277.152	0.4	Pass
$\pi/4$ DQPSK	2DH5	MCH	2.891	92	265.972	0.4	Pass

6.2 Test Graphs



$\pi/4$ DQPSK
_2DH5/MCH

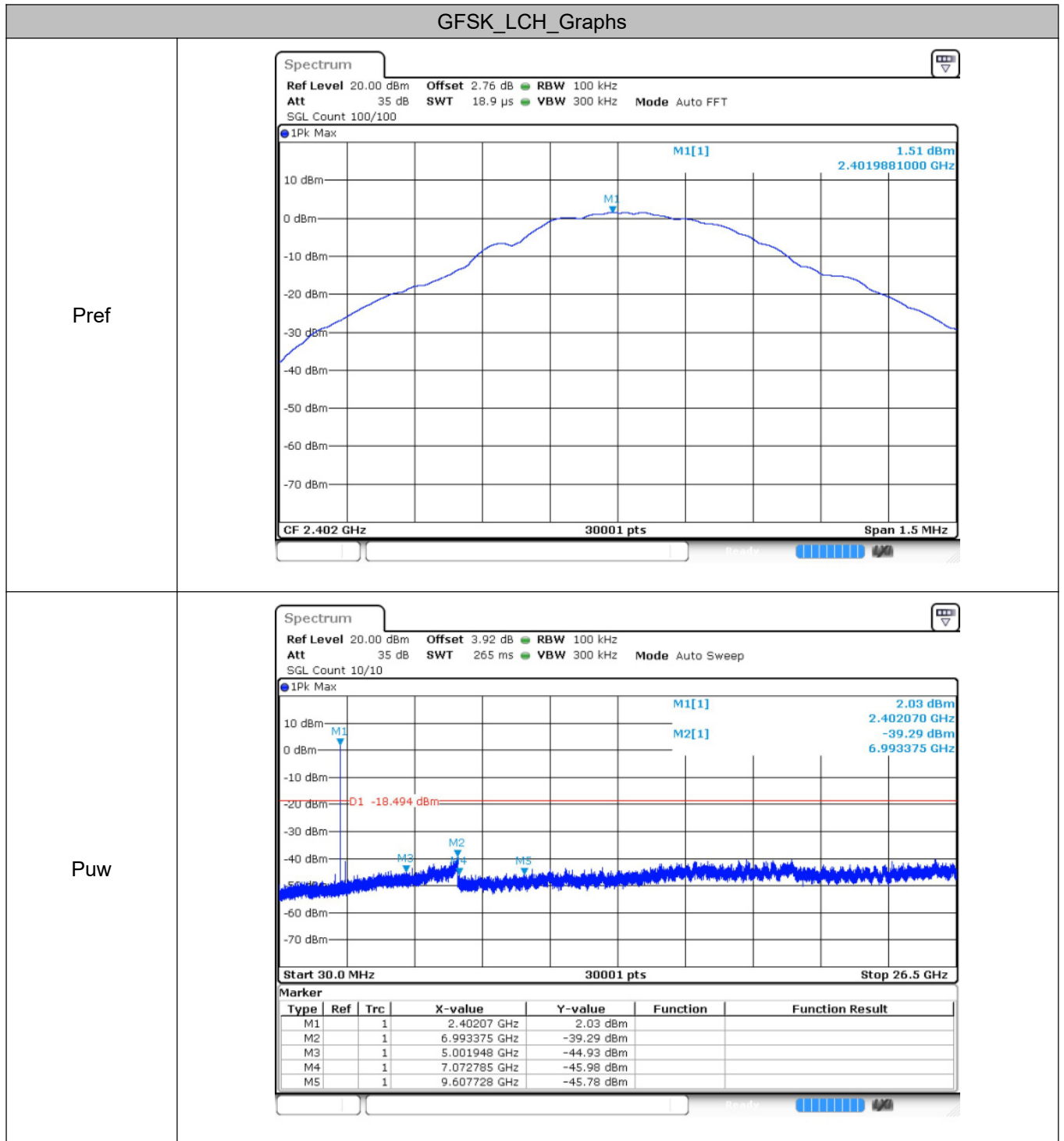


7 RF Conducted Spurious Emissions

7.1 Test Result

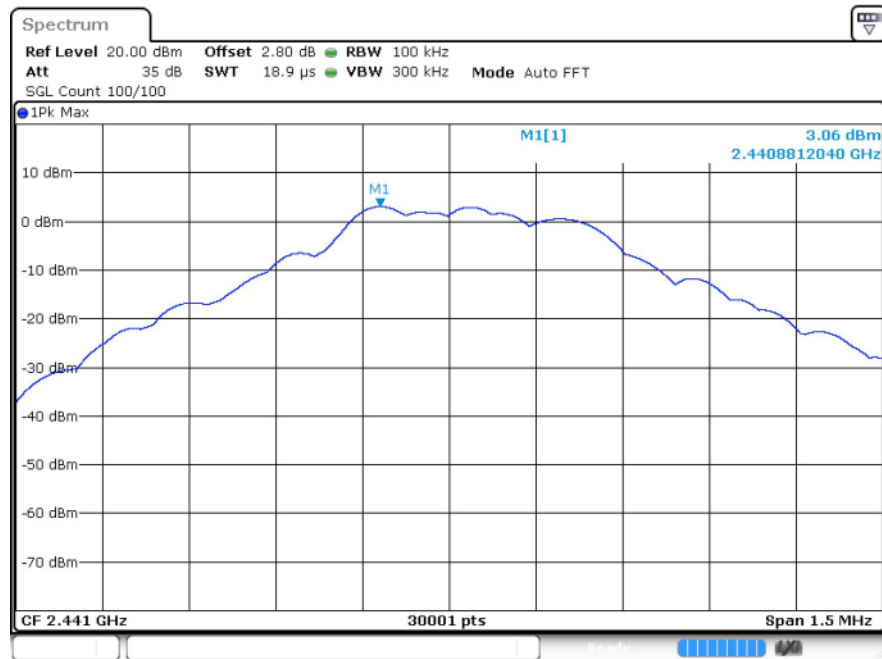
Mode	Channel	Max. Level [dBc]	Limit [dBc]	Verdict
GFSK	LCH	-40.79	-20	Pass
	MCH	-42.41	-20	Pass
	HCH	-41.27	-20	Pass
$\pi/4$ DQPSK	LCH	-42.26	-20	Pass
	MCH	-41.8	-20	Pass
	HCH	-40.23	-20	Pass

7.2 Test Graphs

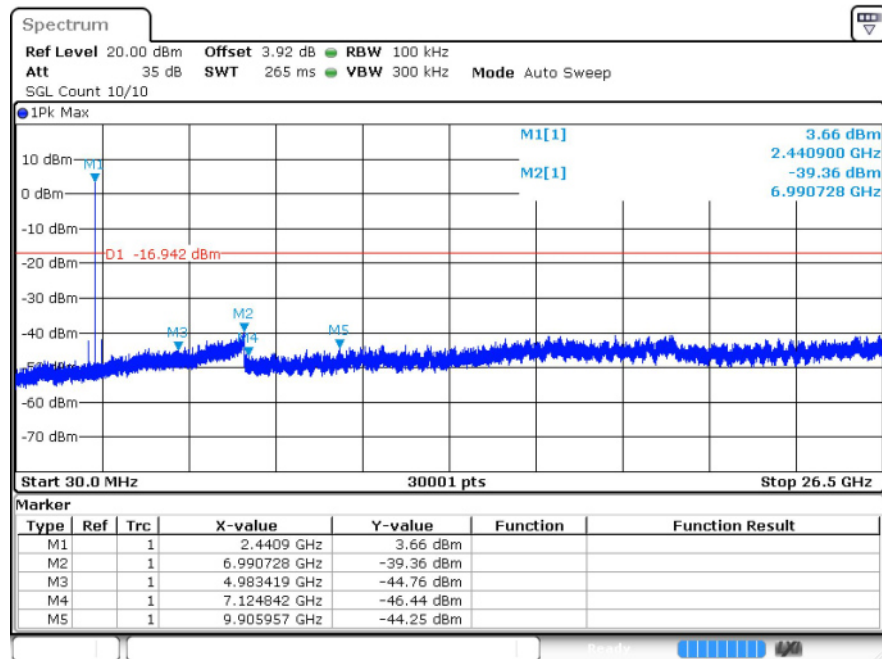


GFSK_MCH_Graphs

Pref

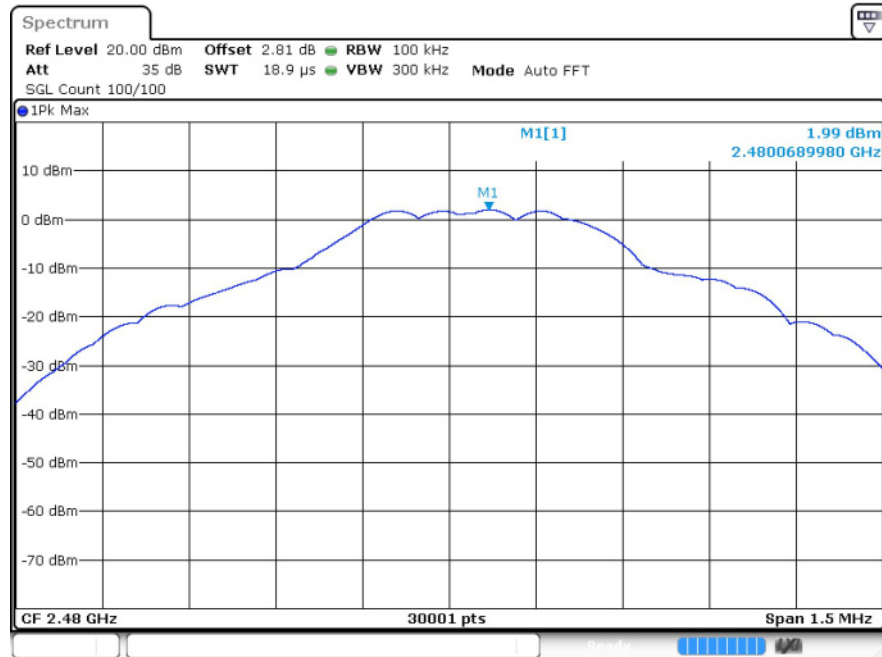


Puw

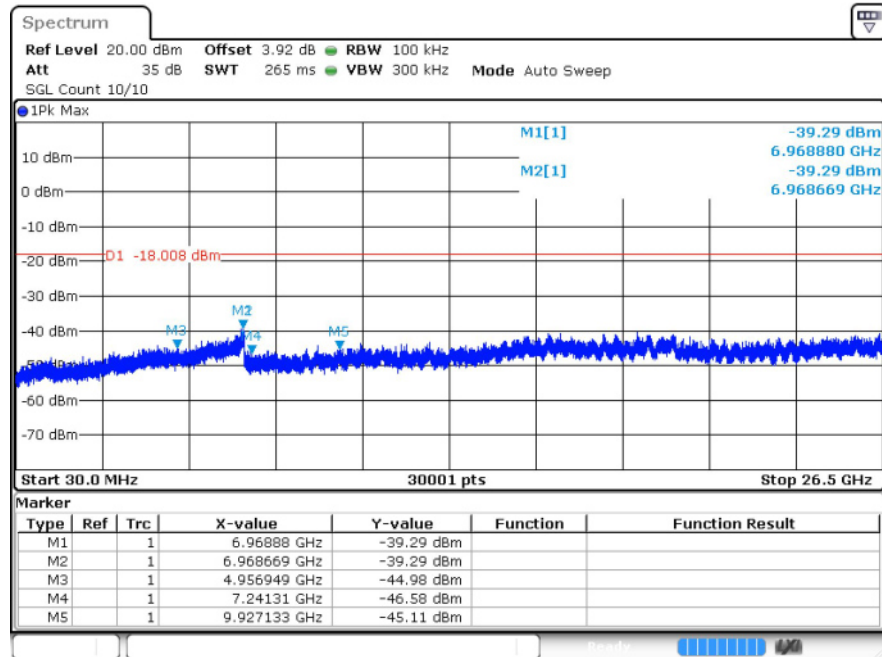


GFSK_HCH_Graphs

Pref

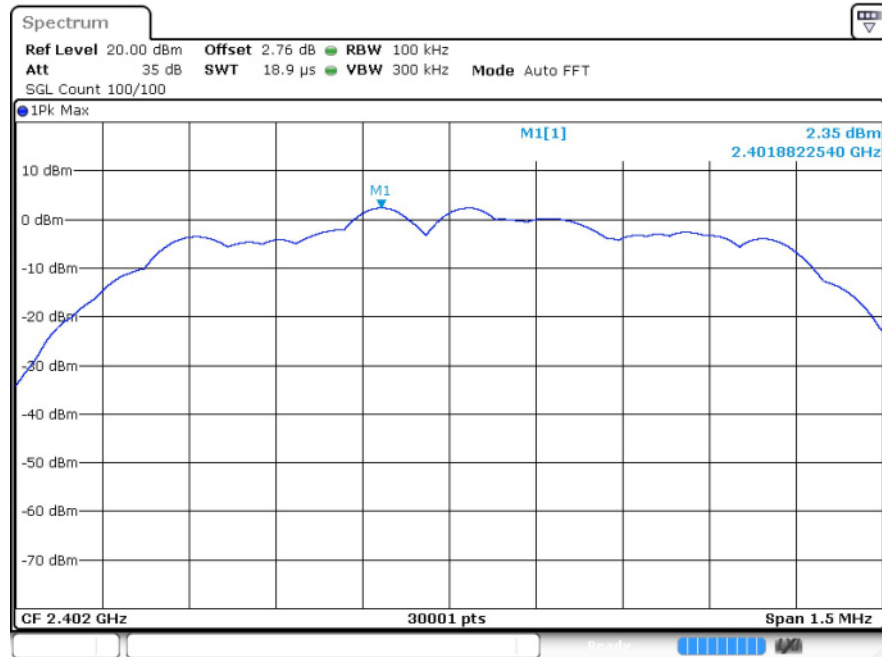


Puw

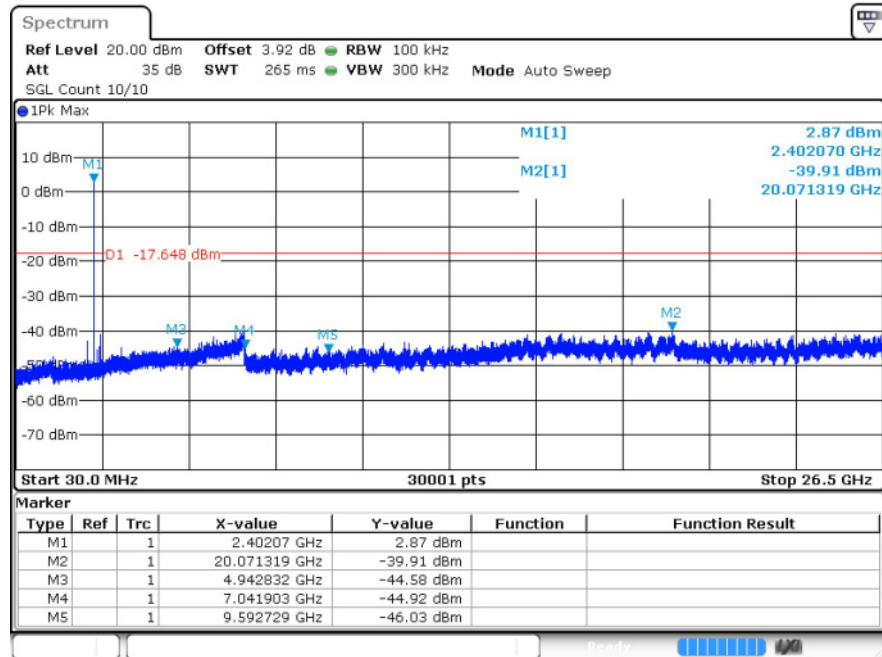


$\pi/4$ DQPSK_LCH_Graphs

Pref

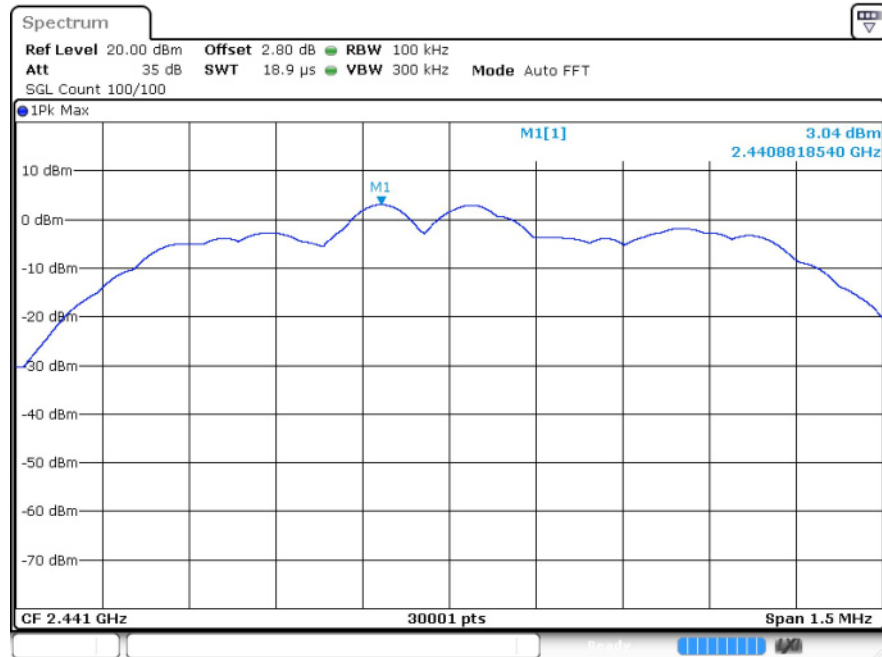


Puw

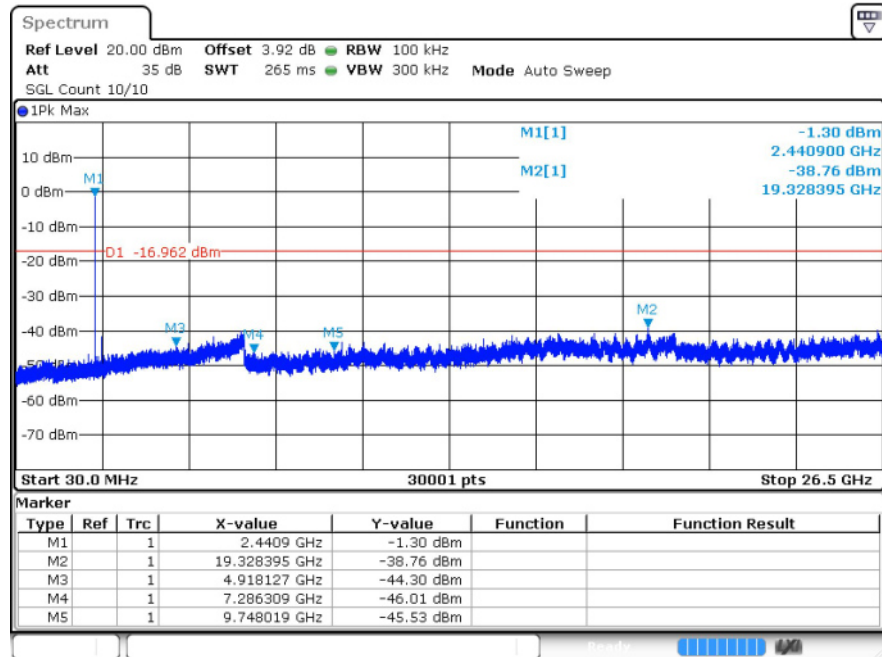


π /4DQPSK_MCH_Graphs

Pref

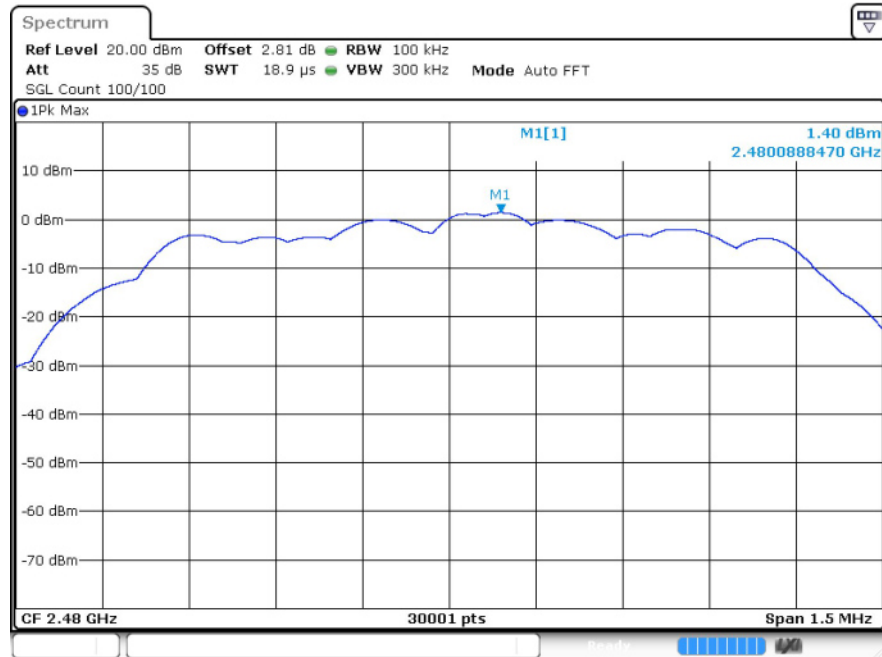


Puw

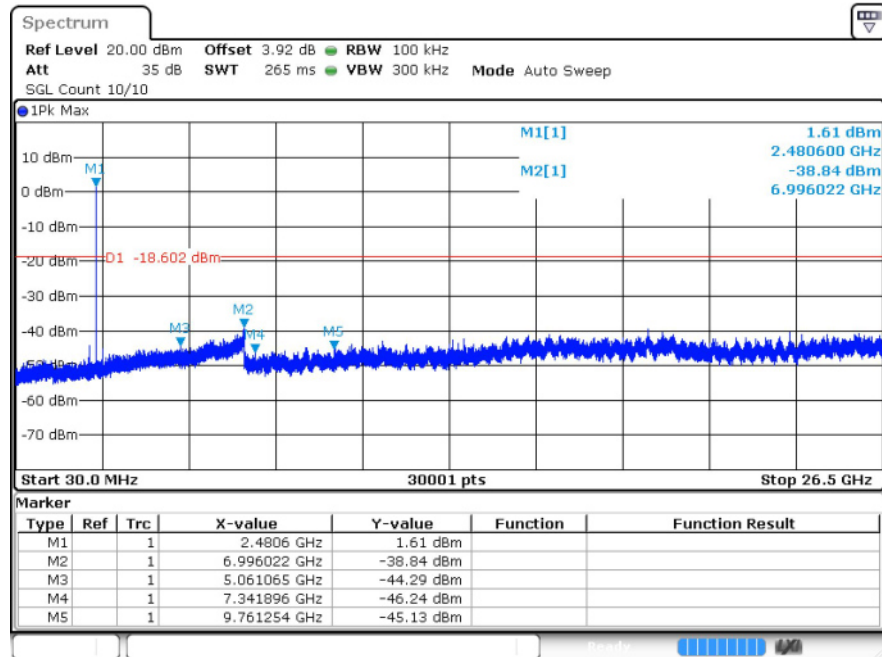


$\pi/4$ DQPSK_HCH_Graphs

Pref



Puw



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	-56.59	-20	Pass
			On	-51.64	-20	Pass
	HCH	2480	Off	-58.38	-20	Pass
			On	-51.46	-20	Pass
$\pi/4$ DQPSK	LCH	2402	Off	-56.71	-20	Pass
			On	-52.03	-20	Pass
	HCH	2480	Off	-58.18	-20	Pass
			On	-51.35	-20	Pass