



Appendix A

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

Product Name: BE Leatherette w/Display XT62

Trade Mark: N/A

Test Model: HM-AU-BE-233

Environmental Conditions

Temperature:	25.4°C
Relative Humidity:	52.3%
ATM Pressure:	101Kpa
Test Engineer:	Simba Huang
Supervised by:	Seal Chen

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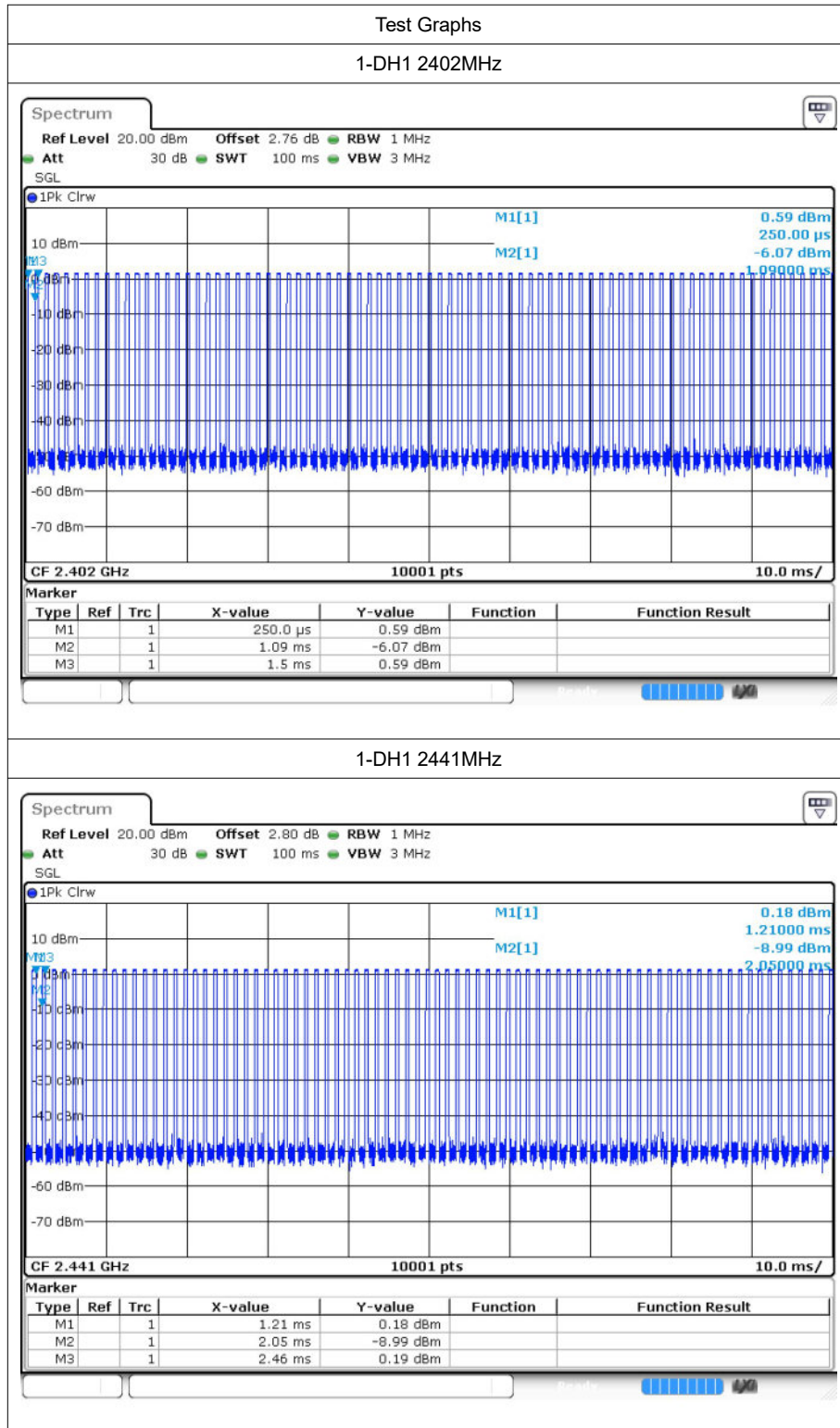
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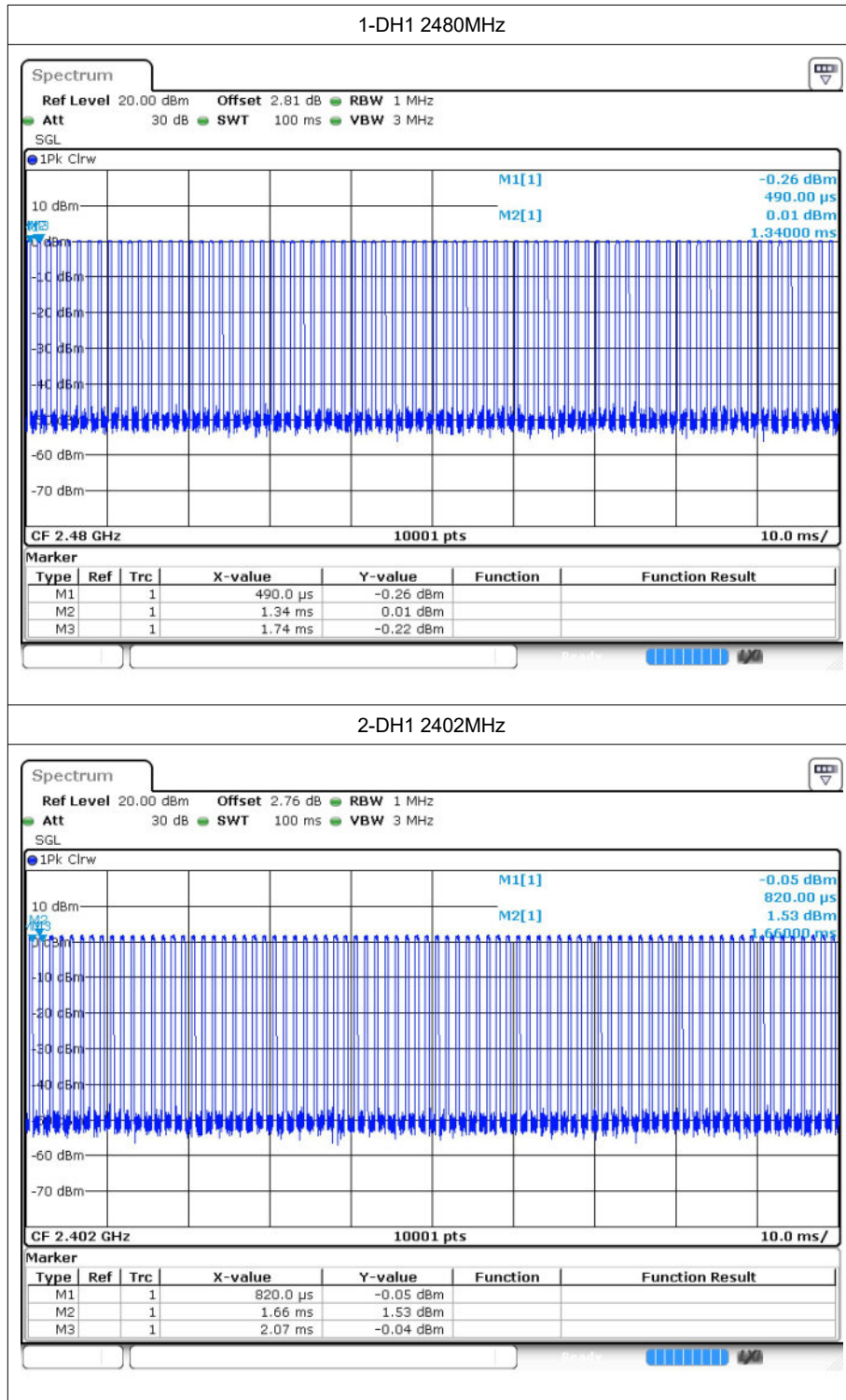
1 Duty Cycle

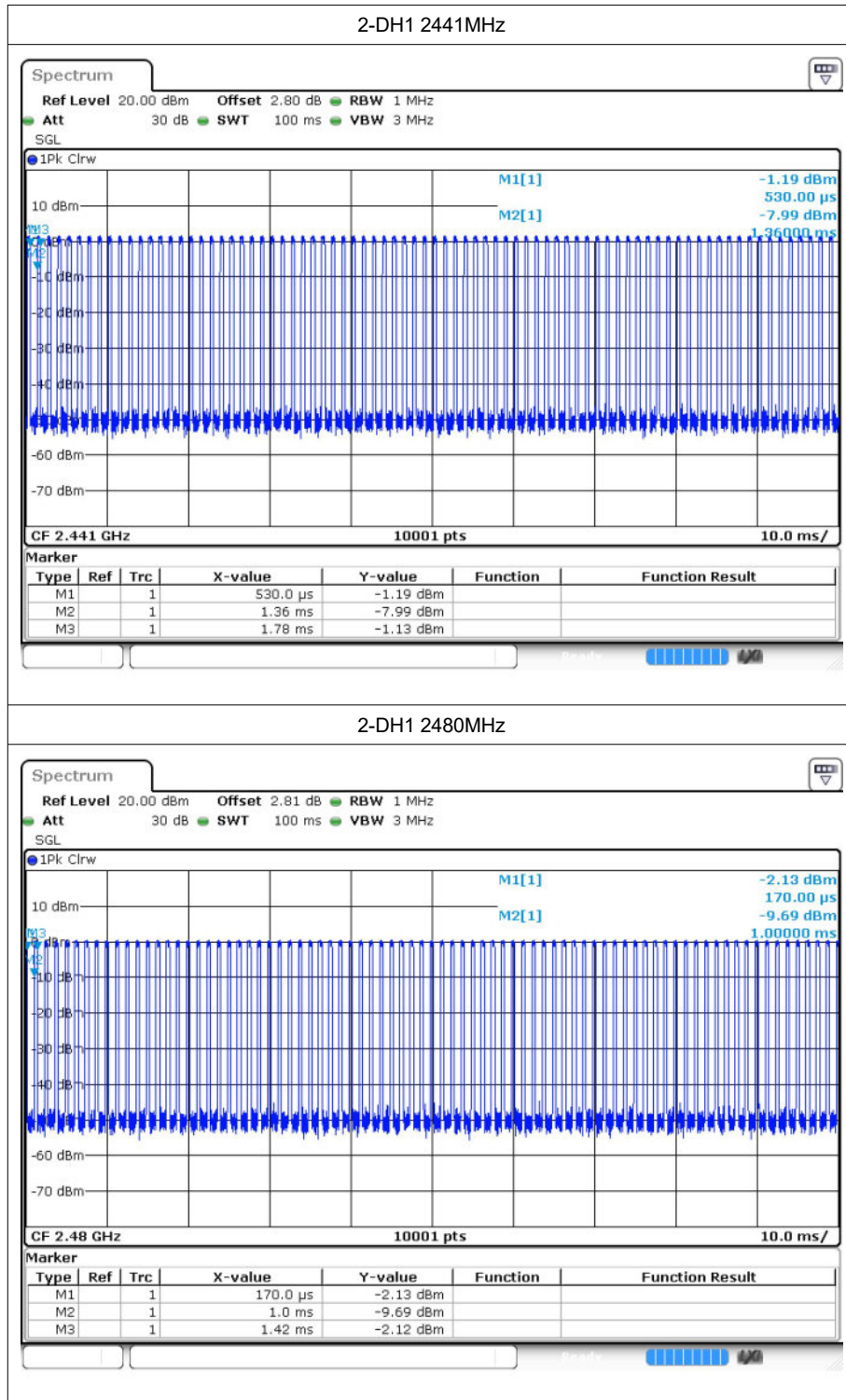
1.1 Test Result

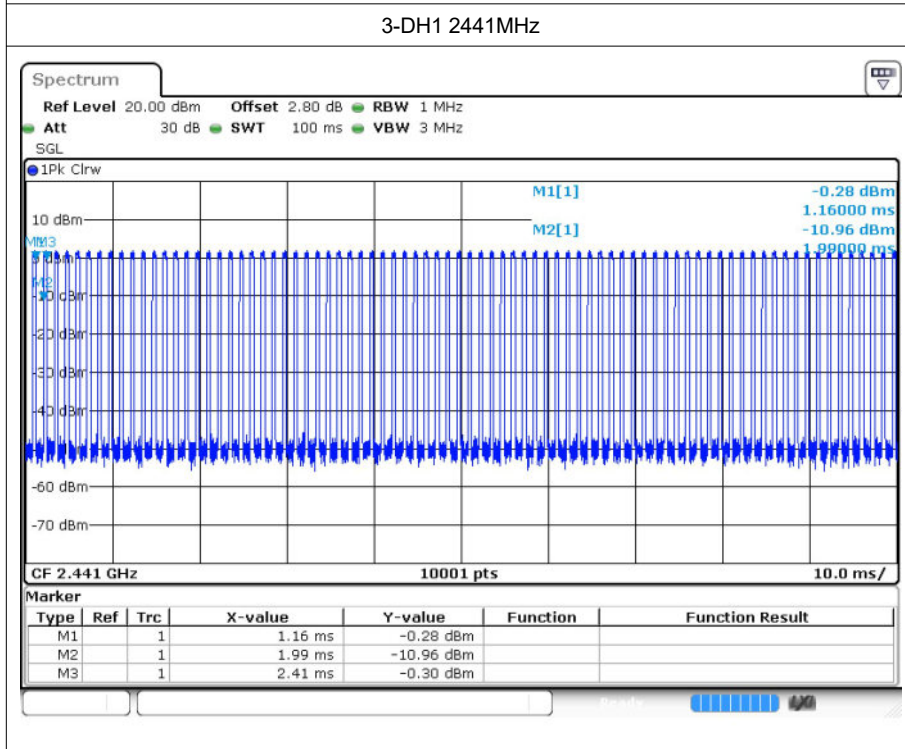
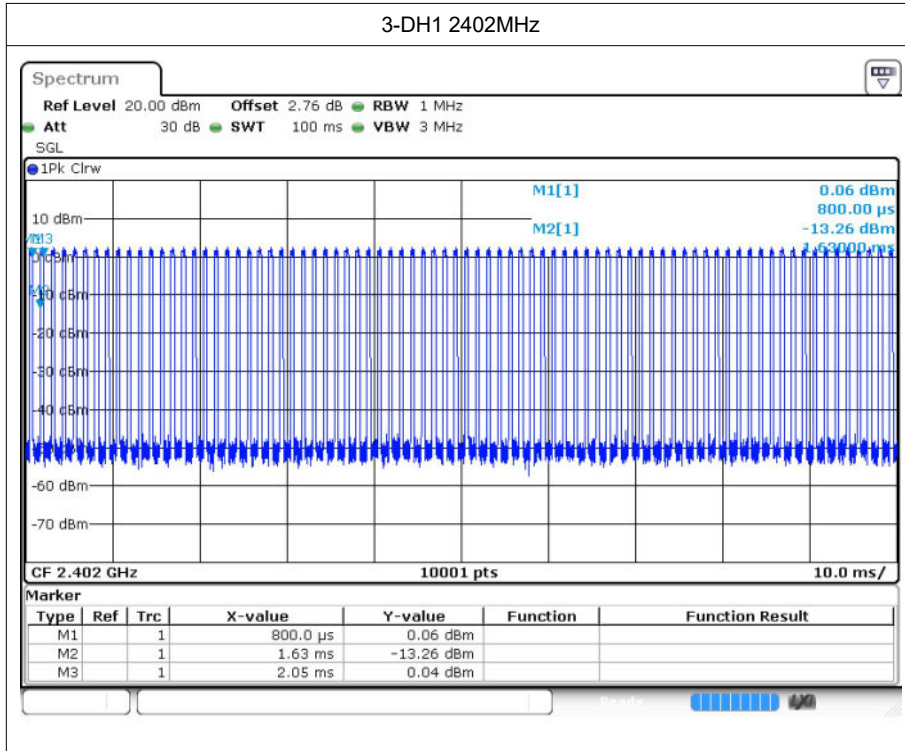
Mode	Frequency (MHz)	Duty Cycle (%)	1/T (kHz)
1-DH1	2402	33.61	2.44
1-DH1	2441	33.6	2.44
1-DH1	2480	33.38	2.5
2-DH1	2402	33.77	2.44
2-DH1	2441	34.4	2.38
2-DH1	2480	34.41	2.38
3-DH1	2402	34.3	2.38
3-DH1	2441	34.4	2.38
3-DH1	2480	34.4	2.38

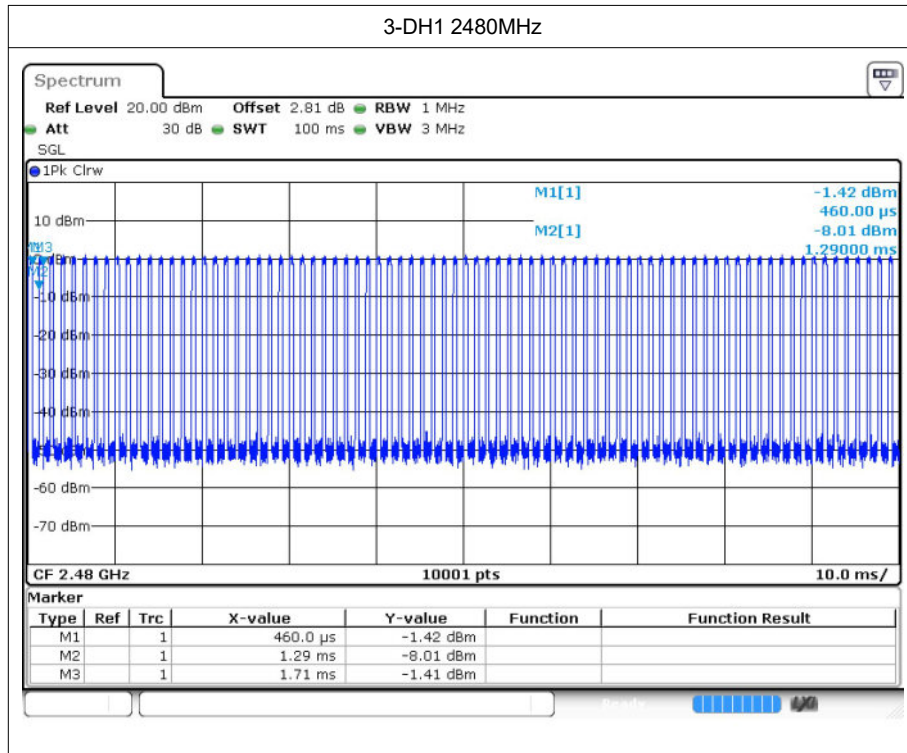
1.2 Test Graphs









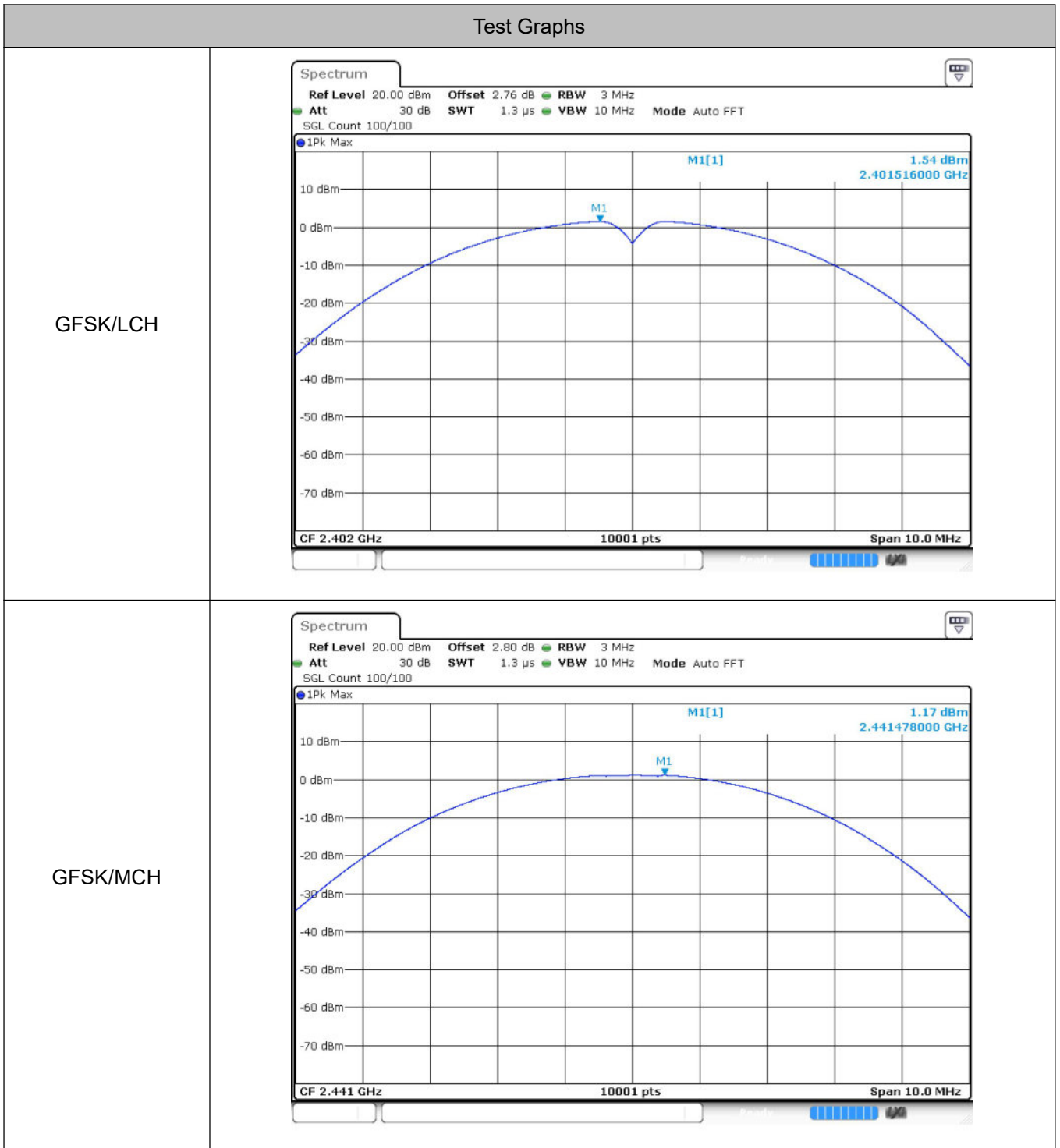


2 Maximum Conducted Peak Output Power

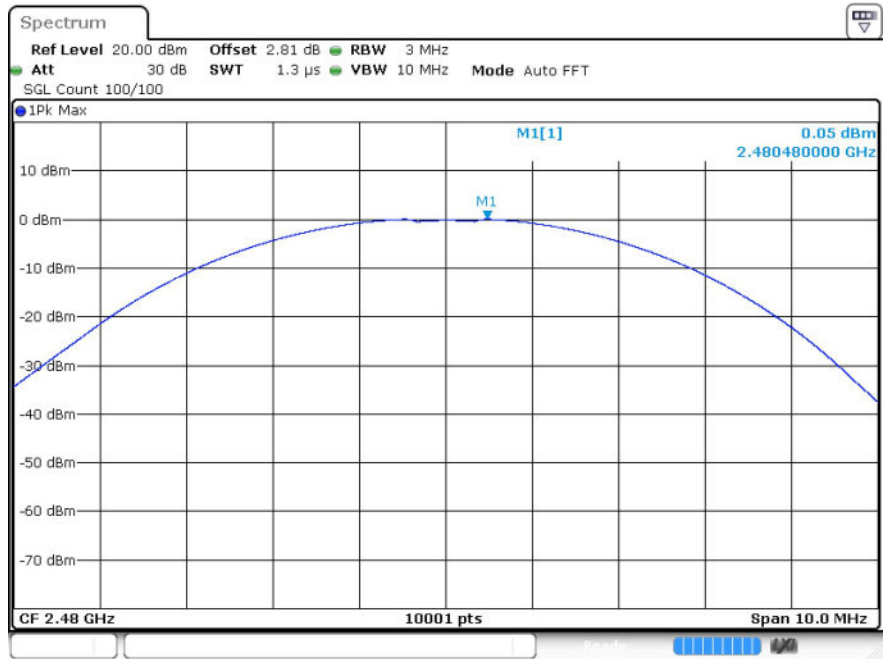
2.1 Test Result

Mode	Channel.	Maximum Peak Output Power [dBm]	Limit [dBm]	Verdict
GFSK	LCH	1.54	21	Pass
	MCH	1.17	21	Pass
	HCH	0.05	21	Pass
$\pi/4$ DQPSK	LCH	1.9	21	Pass
	MCH	1.42	21	Pass
	HCH	0.28	21	Pass
8DPSK	LCH	1.55	21	Pass
	MCH	2.31	21	Pass
	HCH	0.38	21	Pass

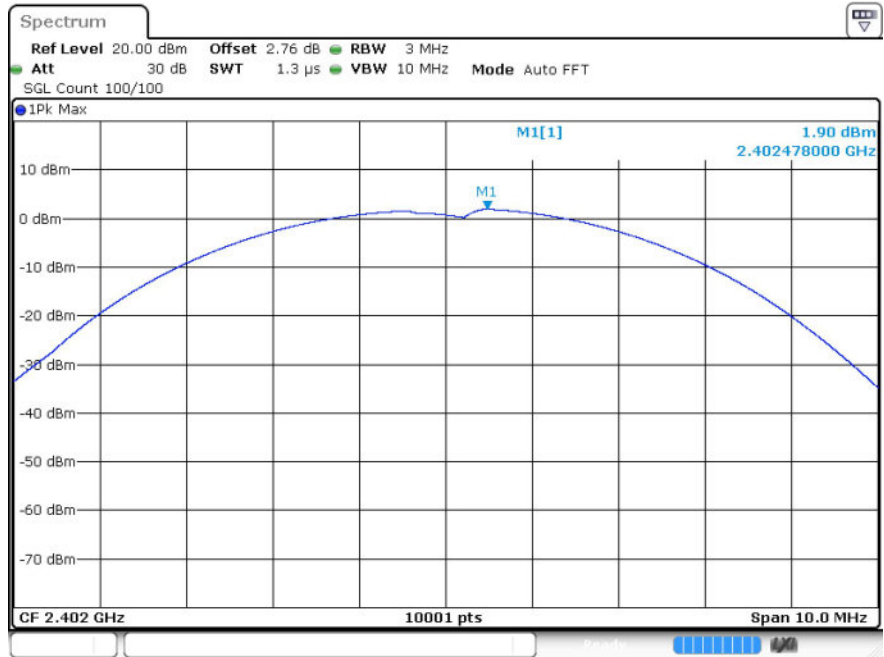
2.2 Test Graphs



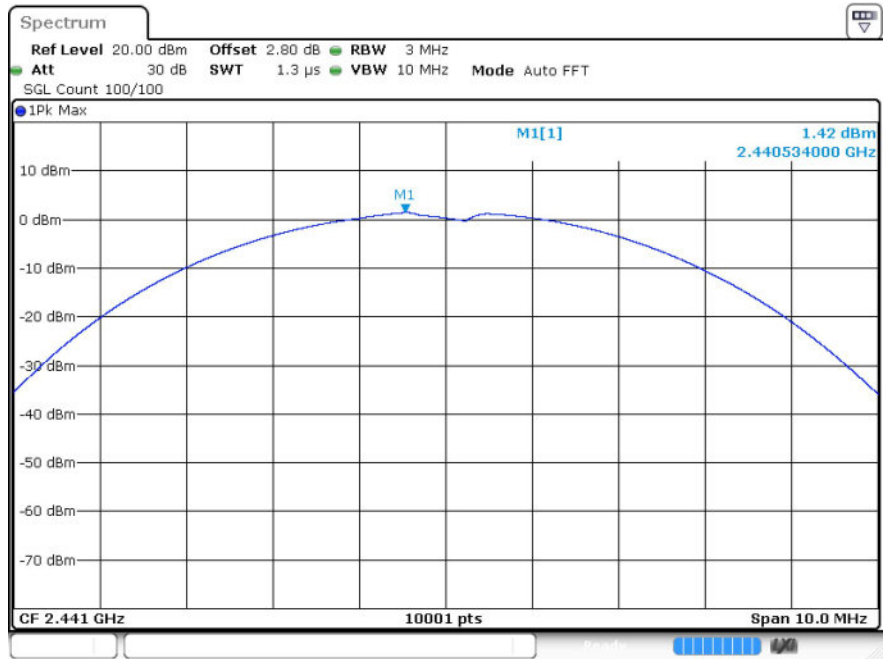
GFSK/HCH



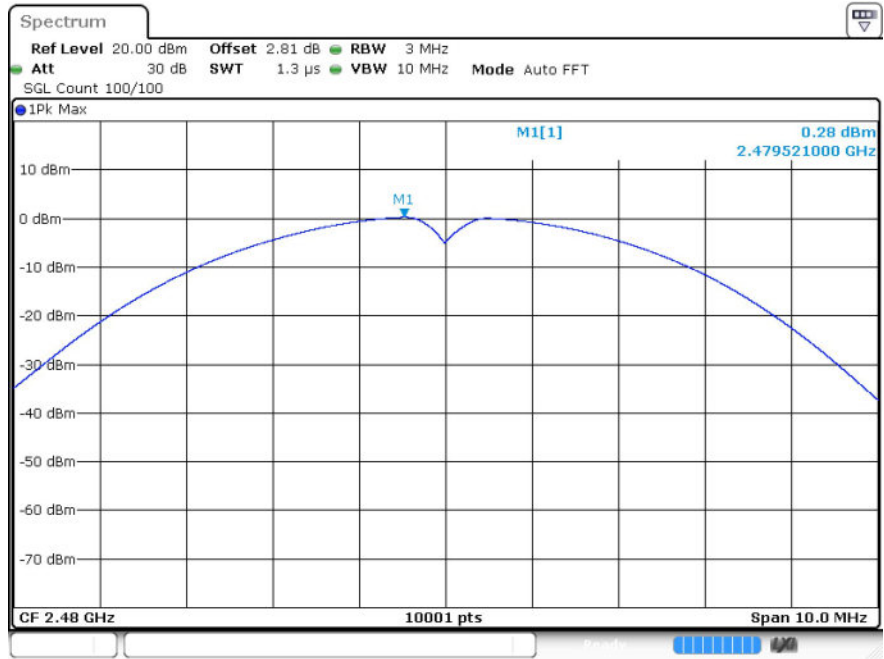
$\pi/4$ DQPSK/LCH



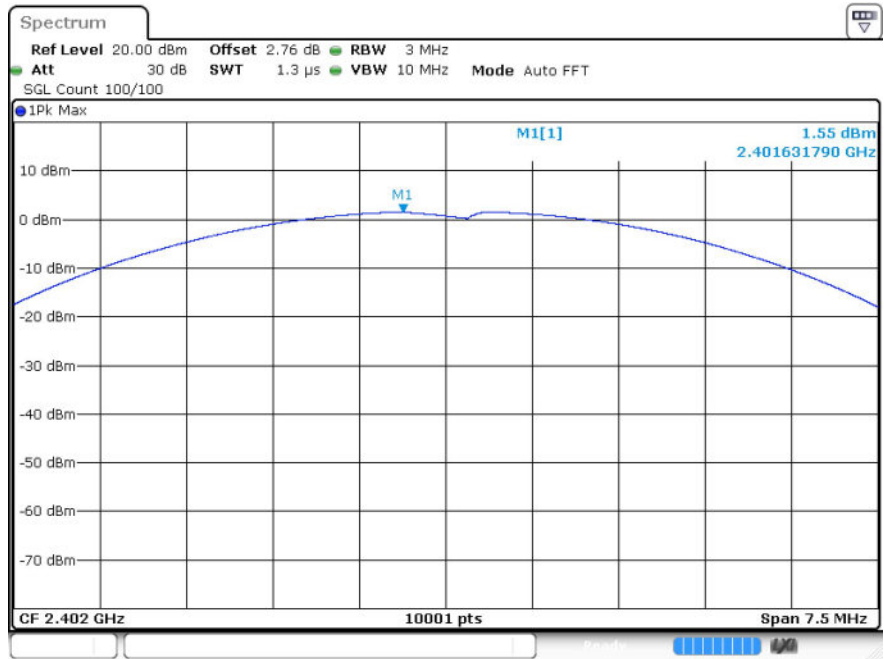
$\pi/4$ DQPSK/MCH



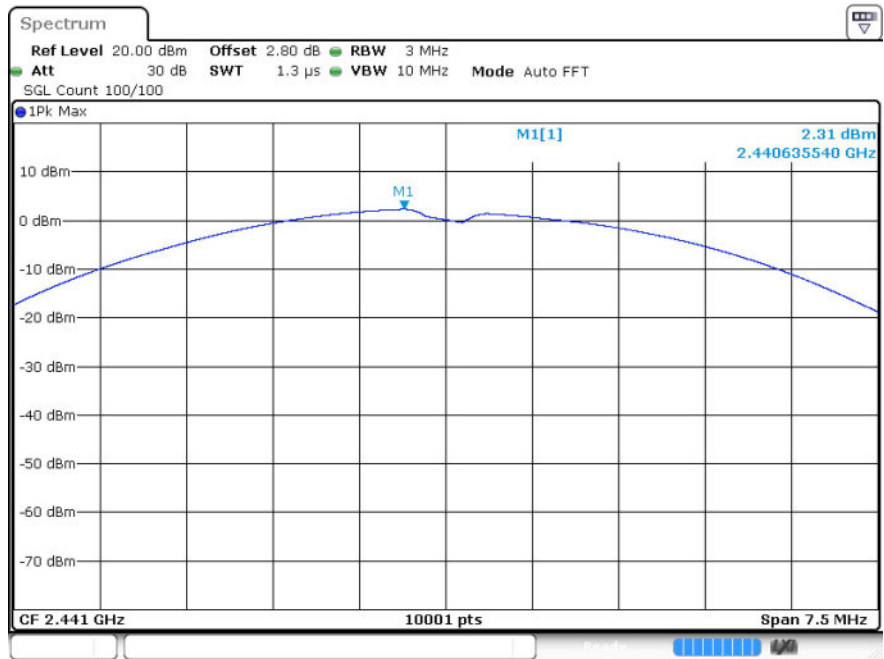
$\pi/4$ DQPSK/HCH



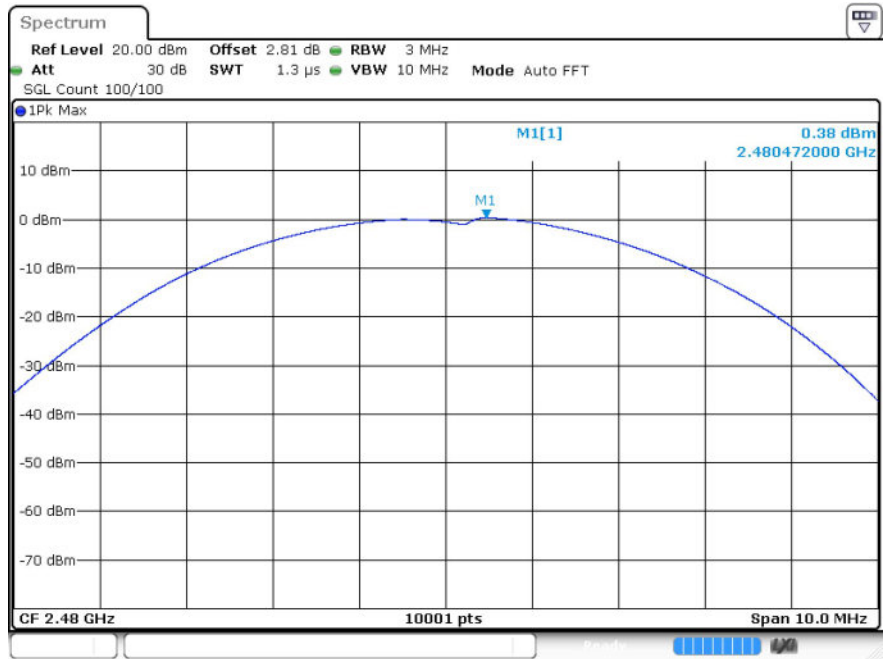
8DPSK/LCH



8DPSK/MCH



8DPSK/HCH

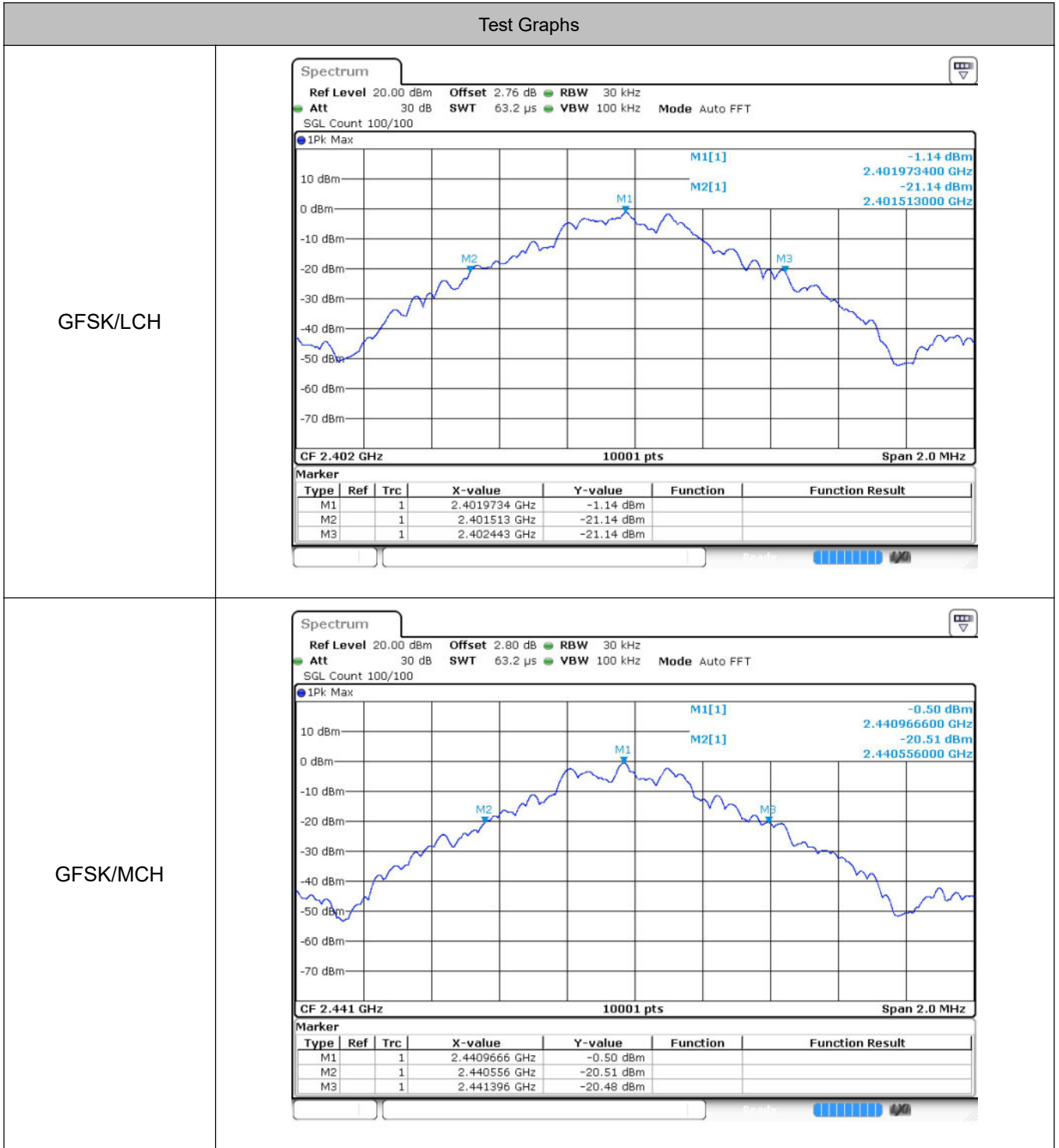


3 20dB Bandwidth

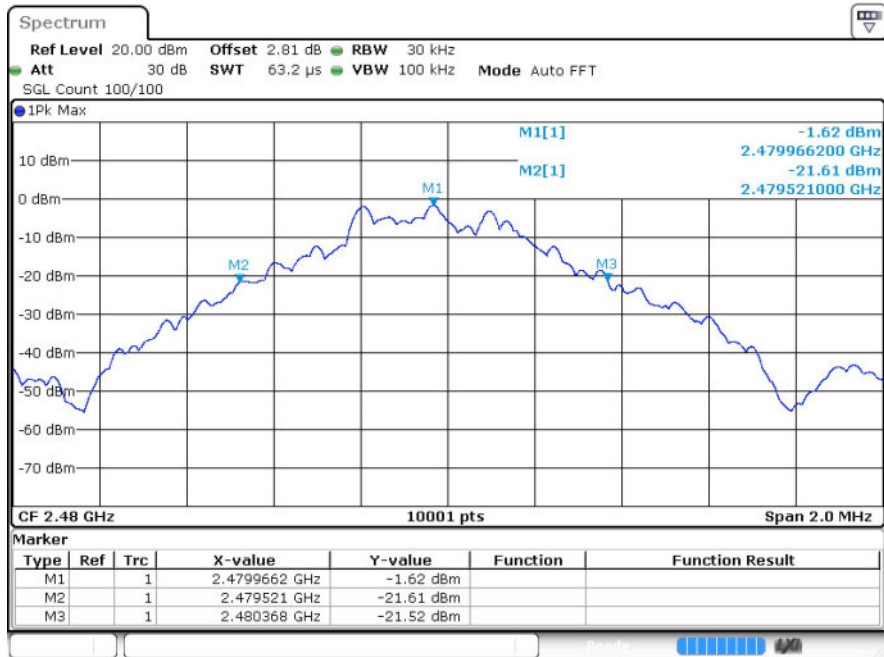
3.1 Test Result

Mode	Channel.	20dB Bandwidth [MHz]	Limit [MHz]	Verdict
GFSK	LCH	0.93	Not Specified	Pass
	MCH	0.84	Not Specified	Pass
	HCH	0.847	Not Specified	Pass
$\pi/4$ DQPSK	LCH	1.22	Not Specified	Pass
	MCH	1.176	Not Specified	Pass
	HCH	1.209	Not Specified	Pass
8DPSK	LCH	1.205	Not Specified	Pass
	MCH	1.176	Not Specified	Pass
	HCH	1.211	Not Specified	Pass

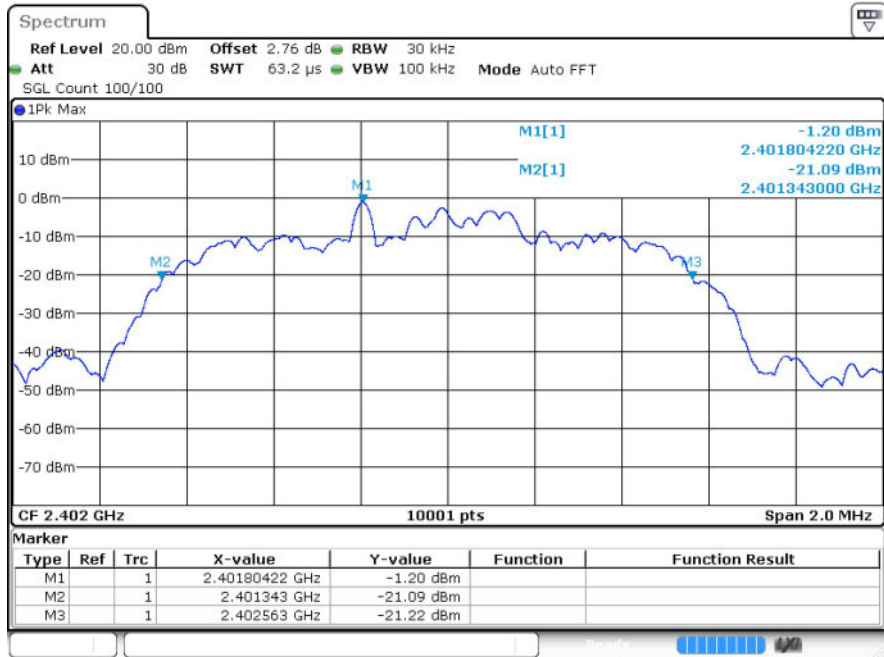
3.2 Test Graphs



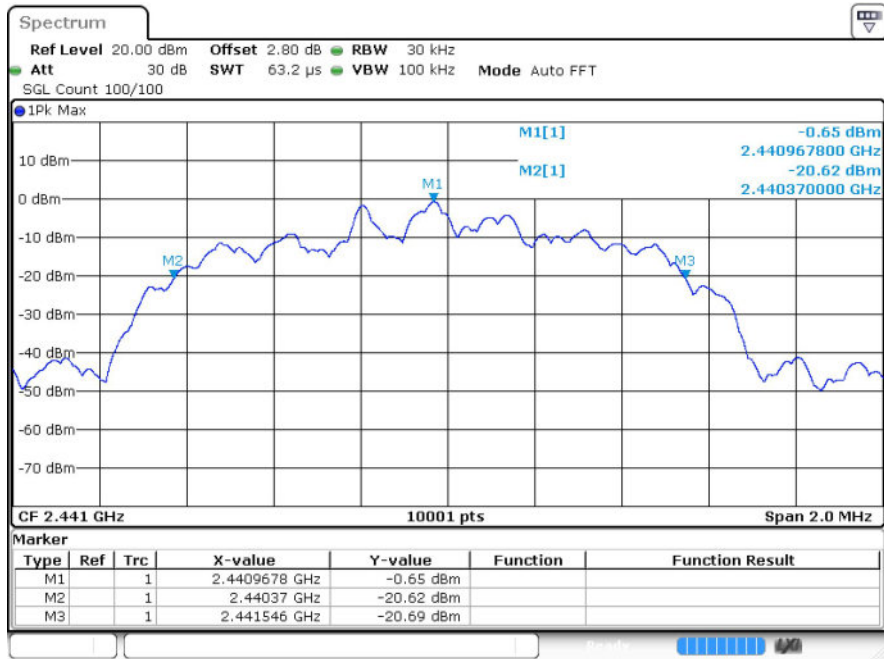
GFSK/HCH



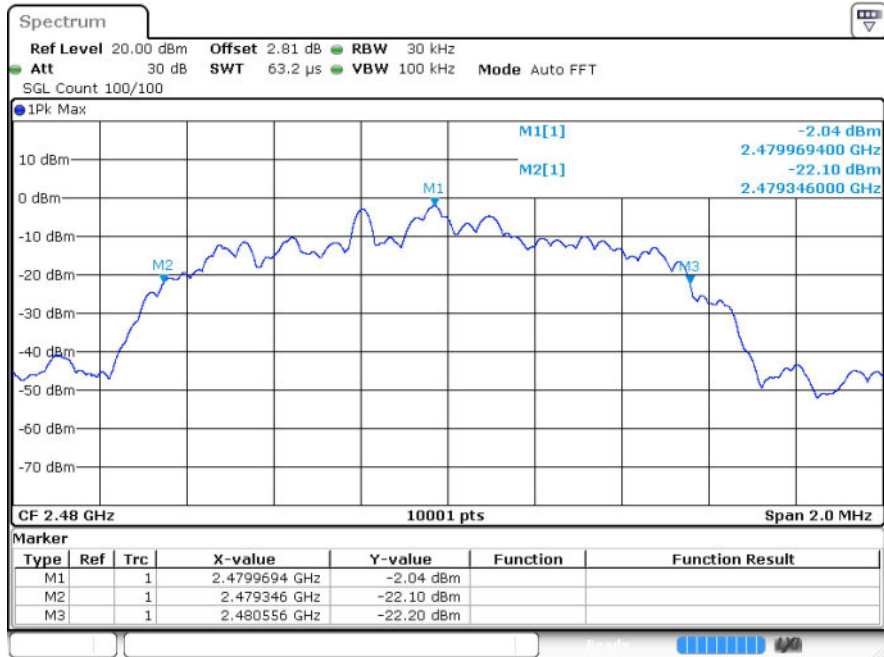
$\pi/4$ DQPSK/LCH



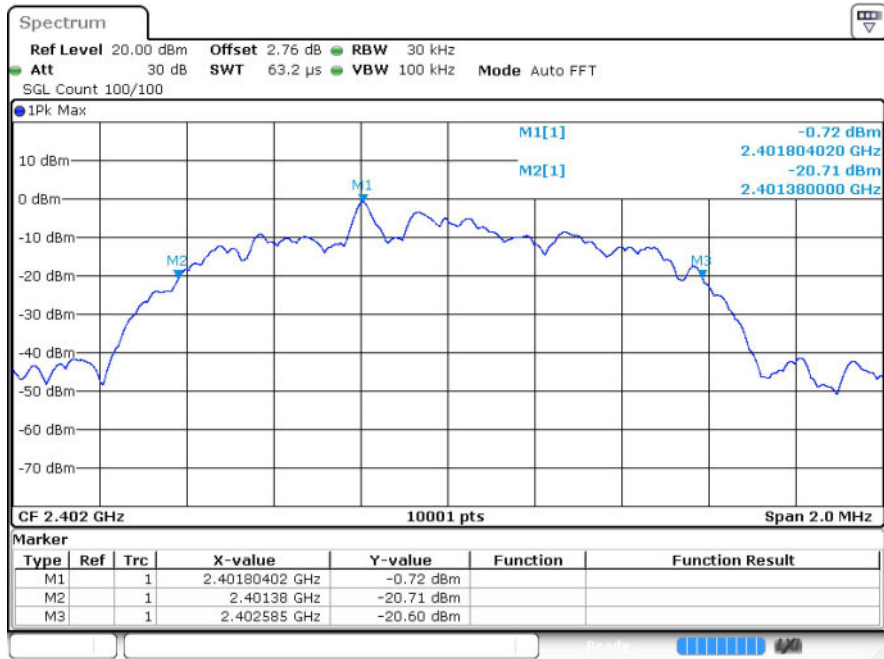
$\pi/4$ DQPSK/MCH



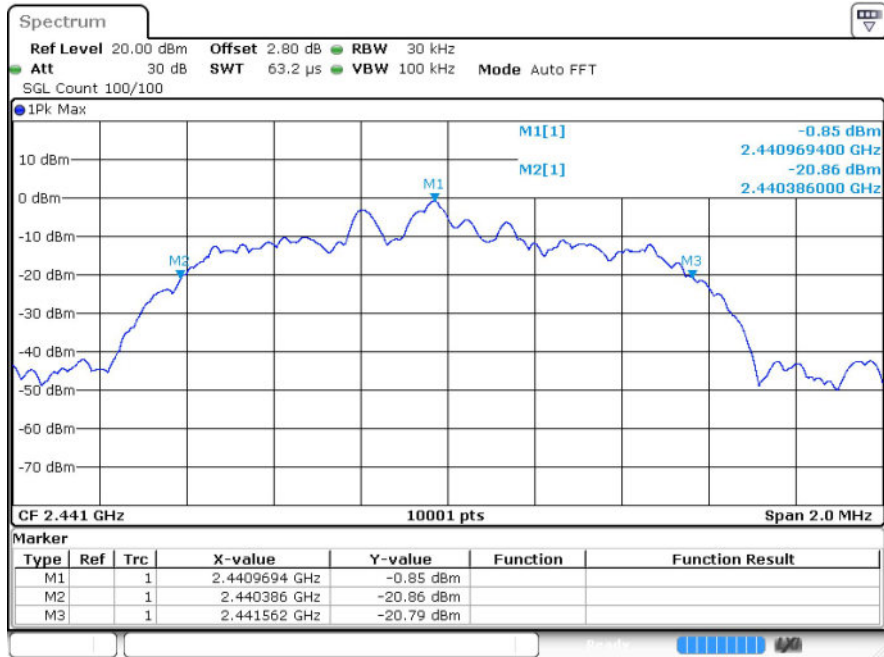
$\pi/4$ DQPSK/HCH



8DPSK/LCH

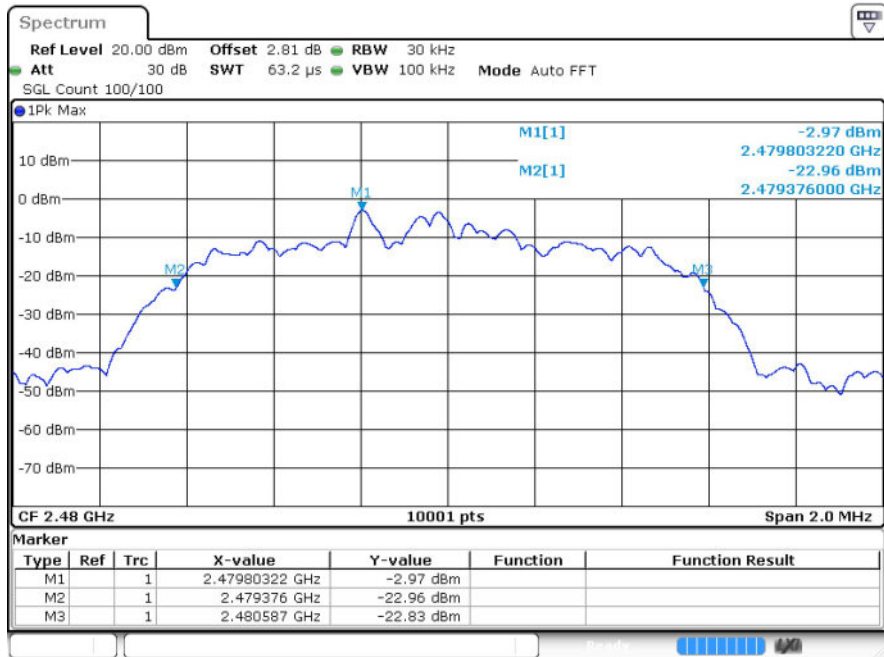


8DPSK/MCH





8DPSK/HCH



4 Carrier Frequency Separation

4.1 Test Result

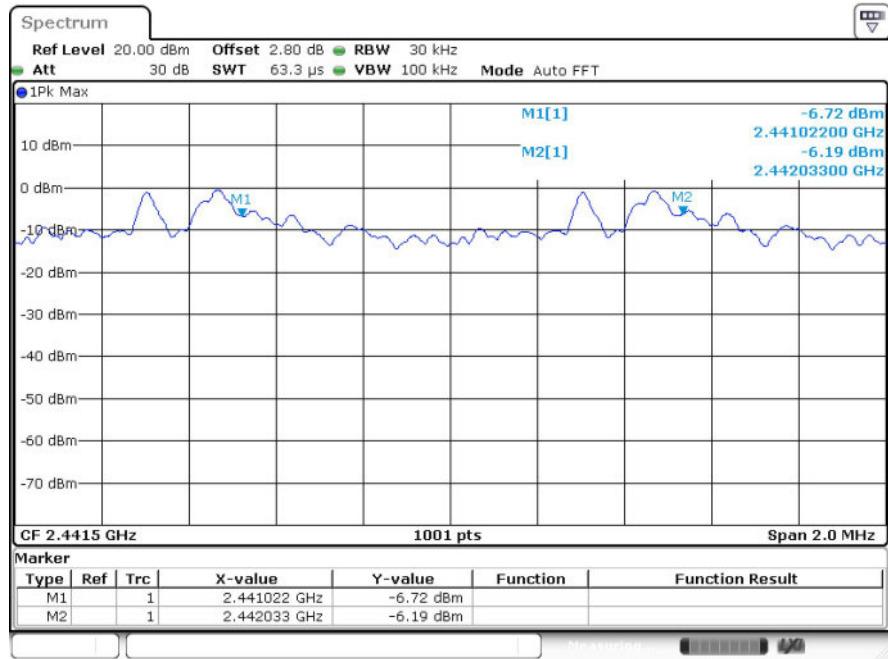
Mode	Channel.	Carrier Frequency Separation [MHz]	Limit [MHz]	Verdict
GFSK	MCH	1	0.56	Pass
$\pi/4$ DQPSK	MCH	1.061	0.784	Pass
8DPSK	MCH	1.011	0.784	Pass

4.2 Test Graphs





8DPSK/MCH

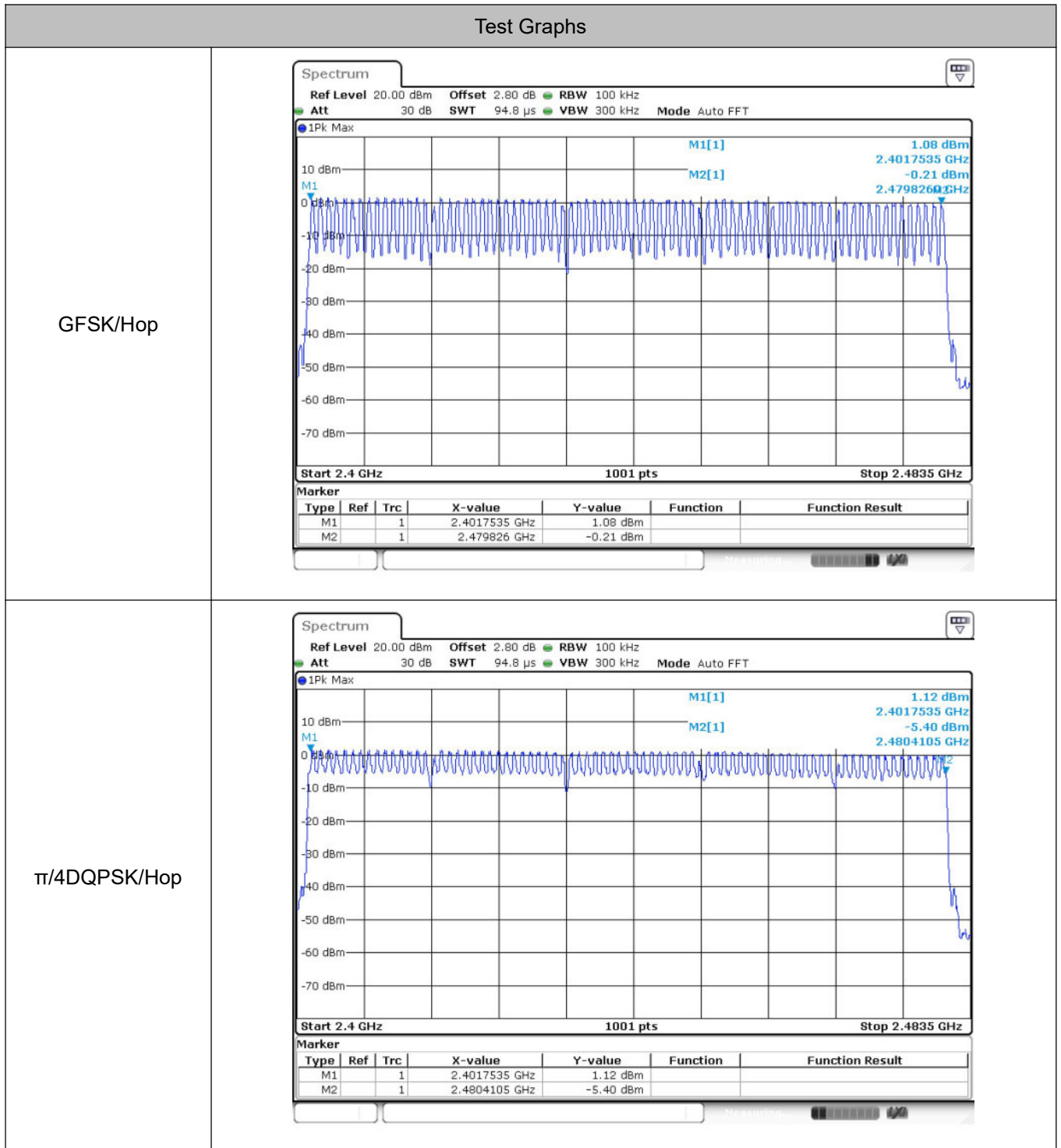


5 Hopping Channel Number

5.1 Test Result

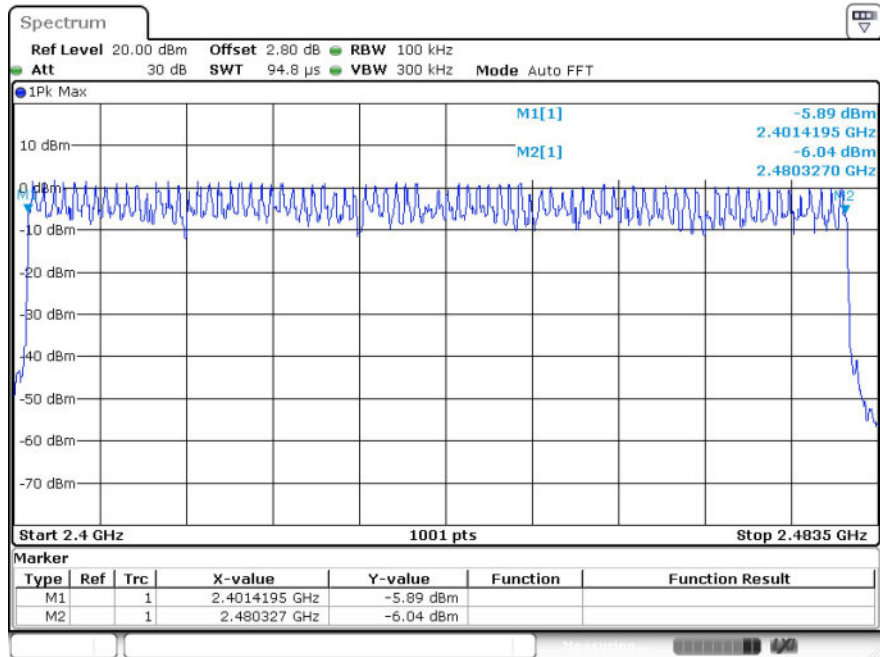
Mode	Channel.	Number of Hopping Channel [N]	Limit [N]	Verdict
GFSK	Hop	79	≥ 15	PASS
$\pi/4$ DQPSK	Hop	79	≥ 15	PASS
8DPSK	Hop	79	≥ 15	PASS

5.2 Test Graphs





8DPSK/Hop

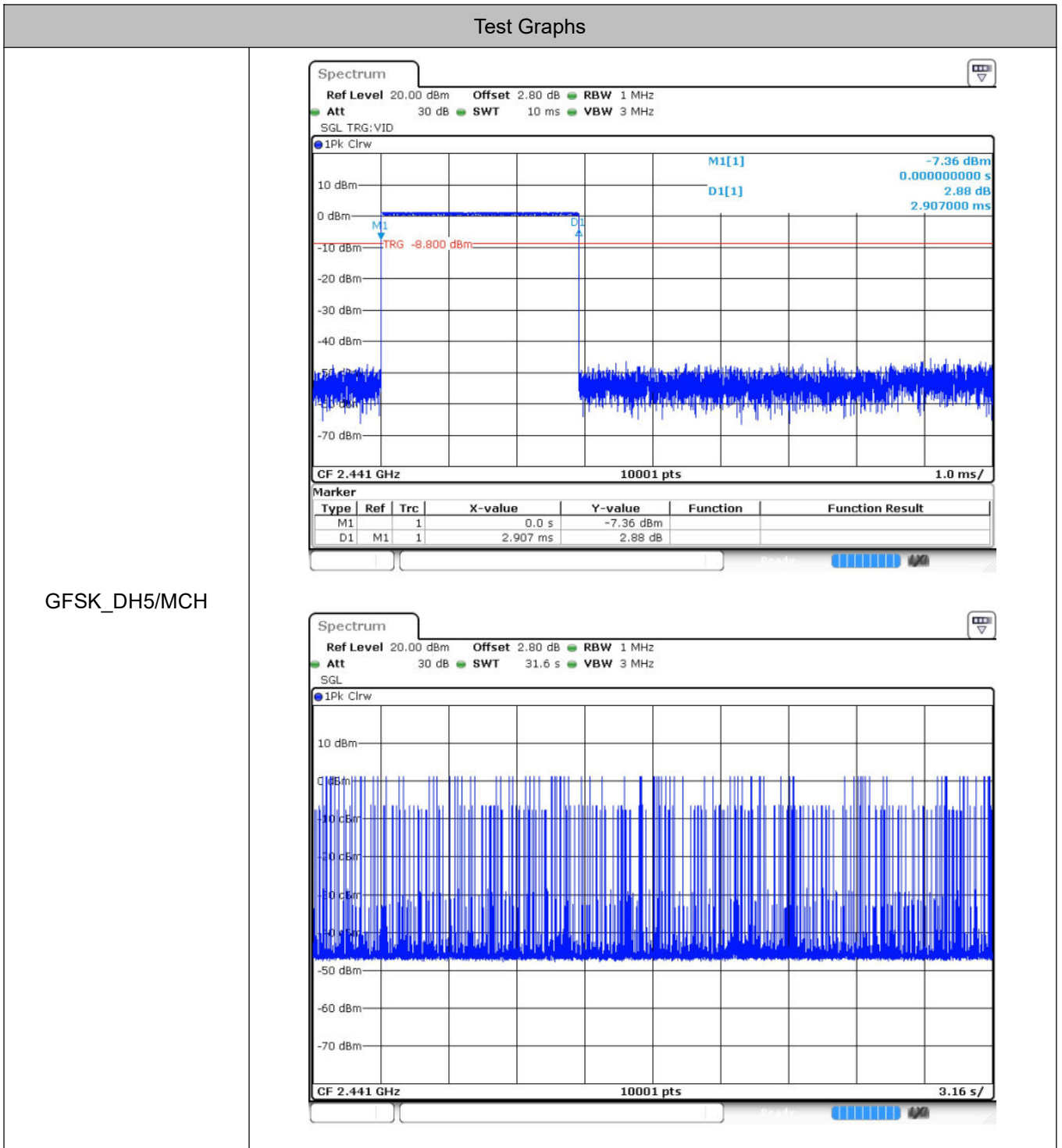


6 Dwell Time

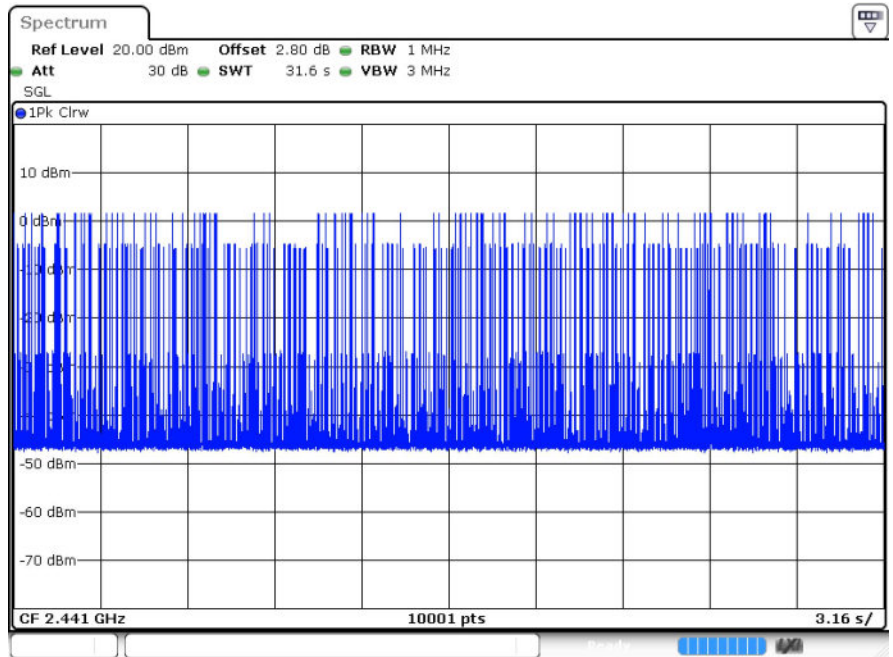
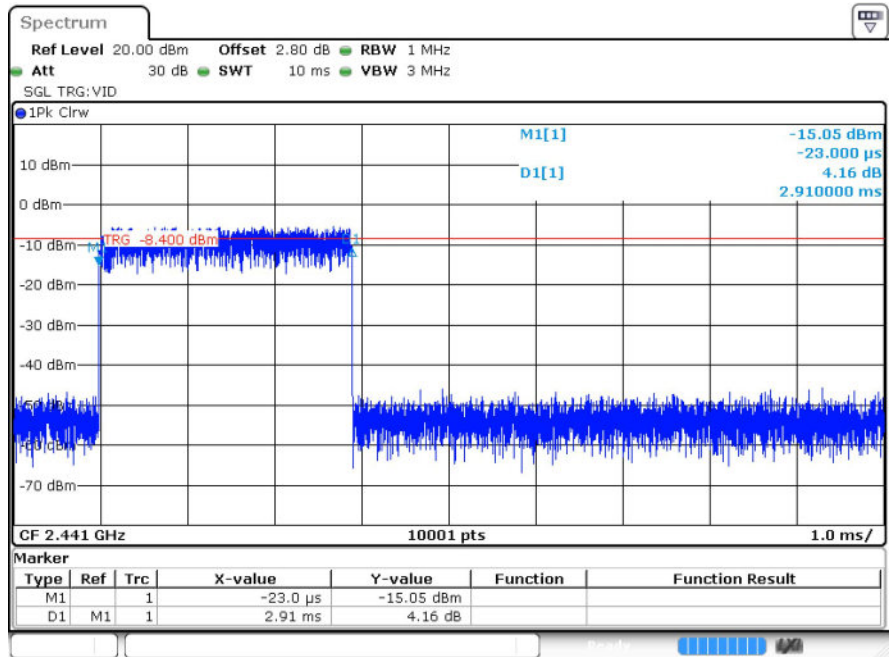
6.1 Test Result

Mode	Packet	Channel	Burst Width [ms/hop/ch]	Total Hops[hop*ch]	Dwell Time[ms]	Limit [s]	Verdict
GFSK	DH5	MCH	2.907	96	279.072	0.4	Pass
$\pi/4$ DQPSK	2DH5	MCH	2.91	108	314.28	0.4	Pass
8DPSK	3DH5	MCH	2.913	121	352.473	0.4	Pass

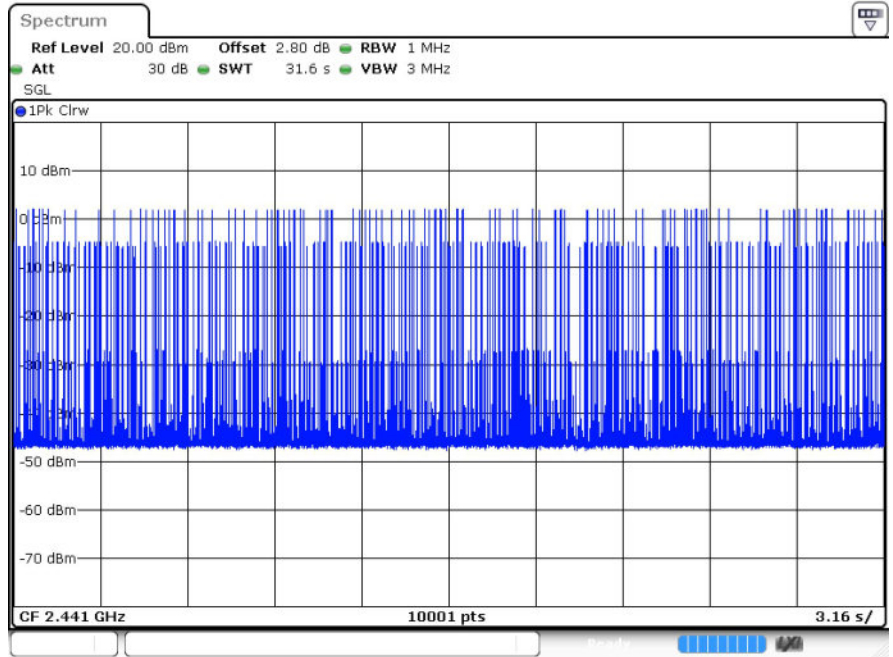
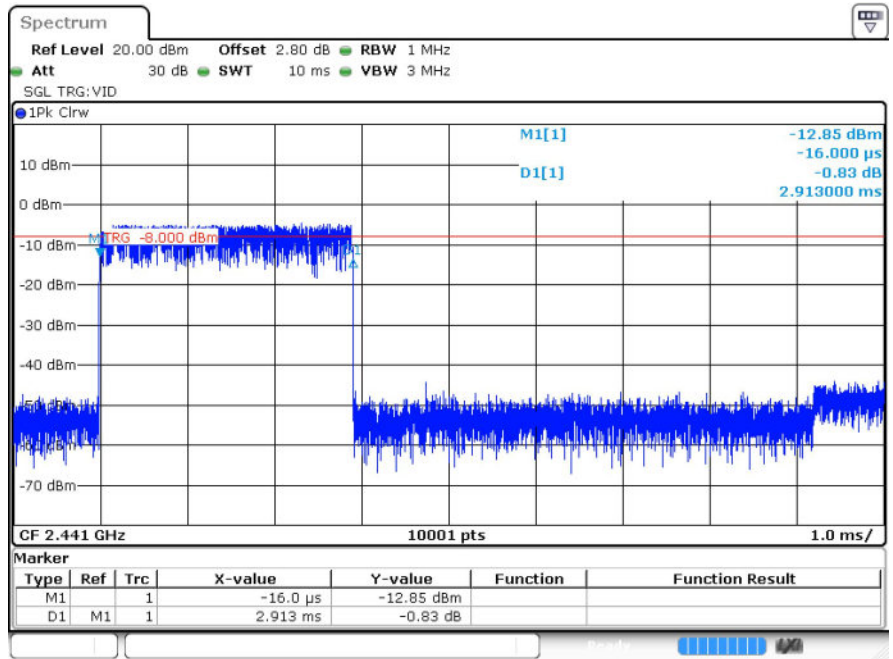
6.2 Test Graphs



$\pi/4$ DQPSK
_2DH5/MCH



8DPSK_3DH5/MCH

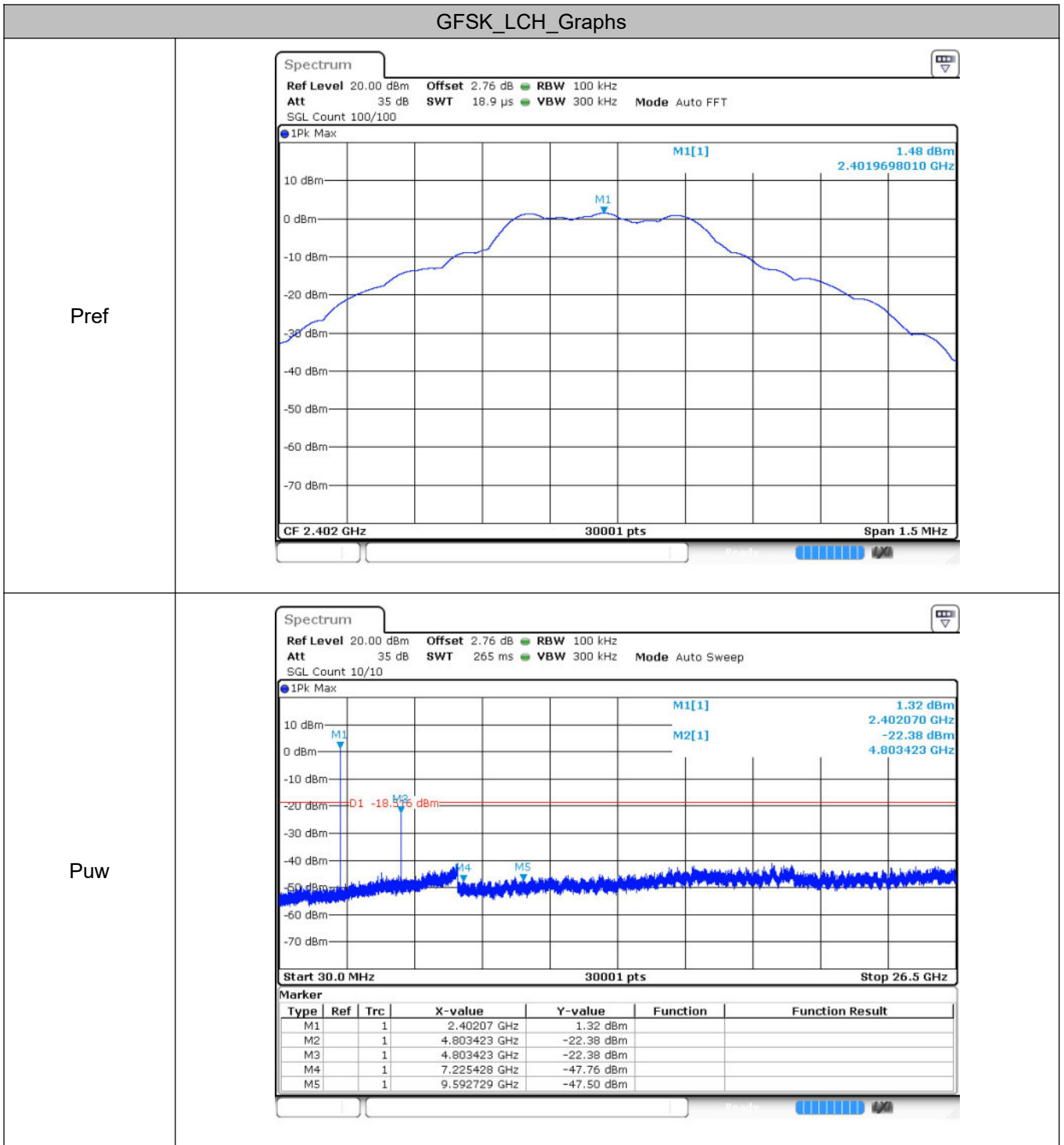


7 RF Conducted Spurious Emissions

7.1 Test Result

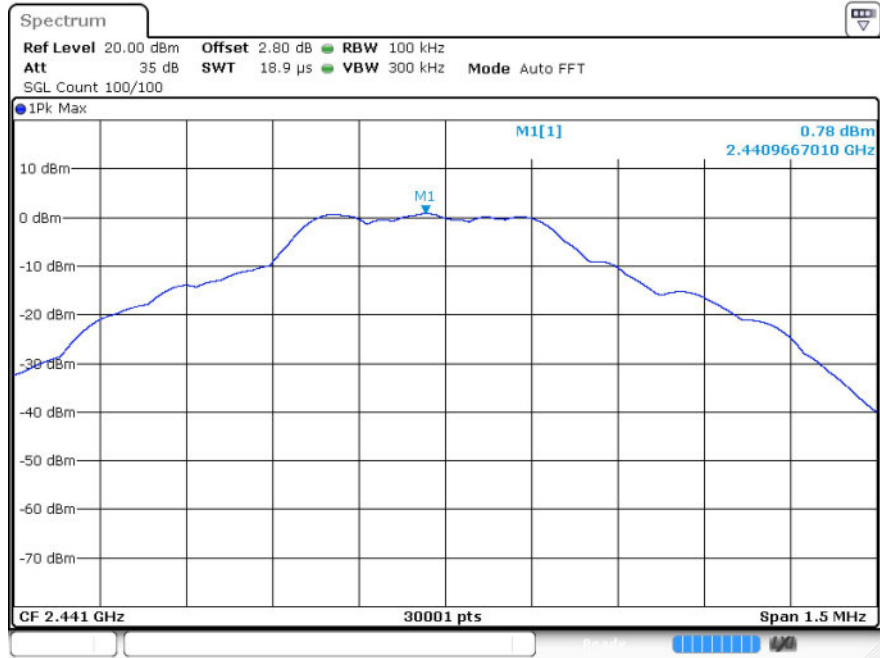
Mode	Channel	Max. Level [dBc]	Limit [dBc]	Verdict
GFSK	LCH	-23.85	-20	Pass
	MCH	-23.4	-20	Pass
	HCH	-23.82	-20	Pass
$\pi/4$ DQPSK	LCH	-30.74	-20	Pass
	MCH	-23.27	-20	Pass
	HCH	-27.02	-20	Pass
8DPSK	LCH	-30.64	-20	Pass
	MCH	-30.25	-20	Pass
	HCH	-26.2	-20	Pass

7.2 Test Graphs

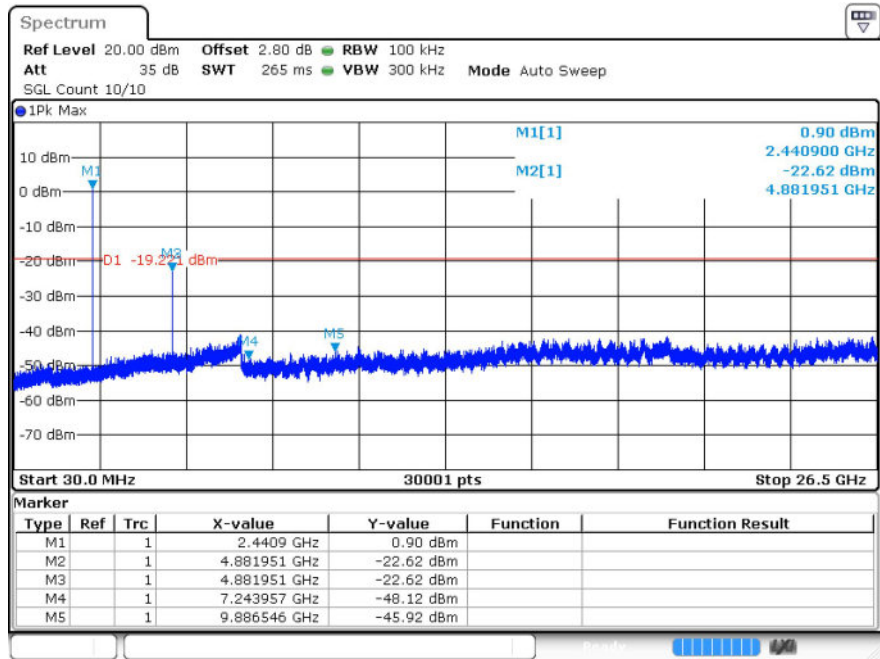


GFSK_MCH_Graphs

Pref

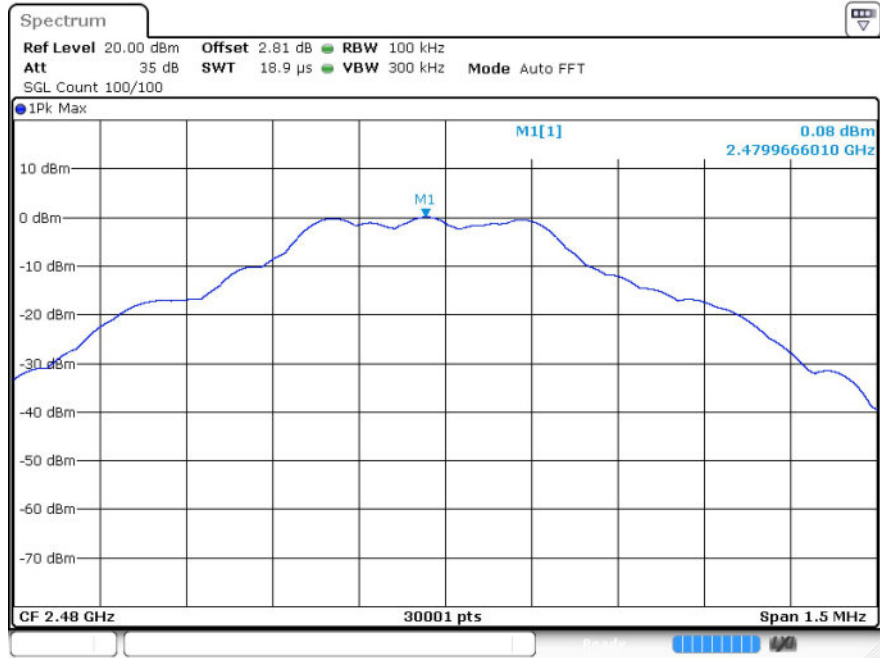


Puw



GFSK_HCH_Graphs

Pref



Puw

