



Appendix A

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

Product Name: Smart glasses

Trade Mark: N/A

Test Model: YK-12

Environmental Conditions

Temperature:	24.2° C
Relative Humidity:	52.0%
ATM Pressure:	100.0 kPa
Test Engineer:	Emiya Lin
Supervised by:	Simba Huang



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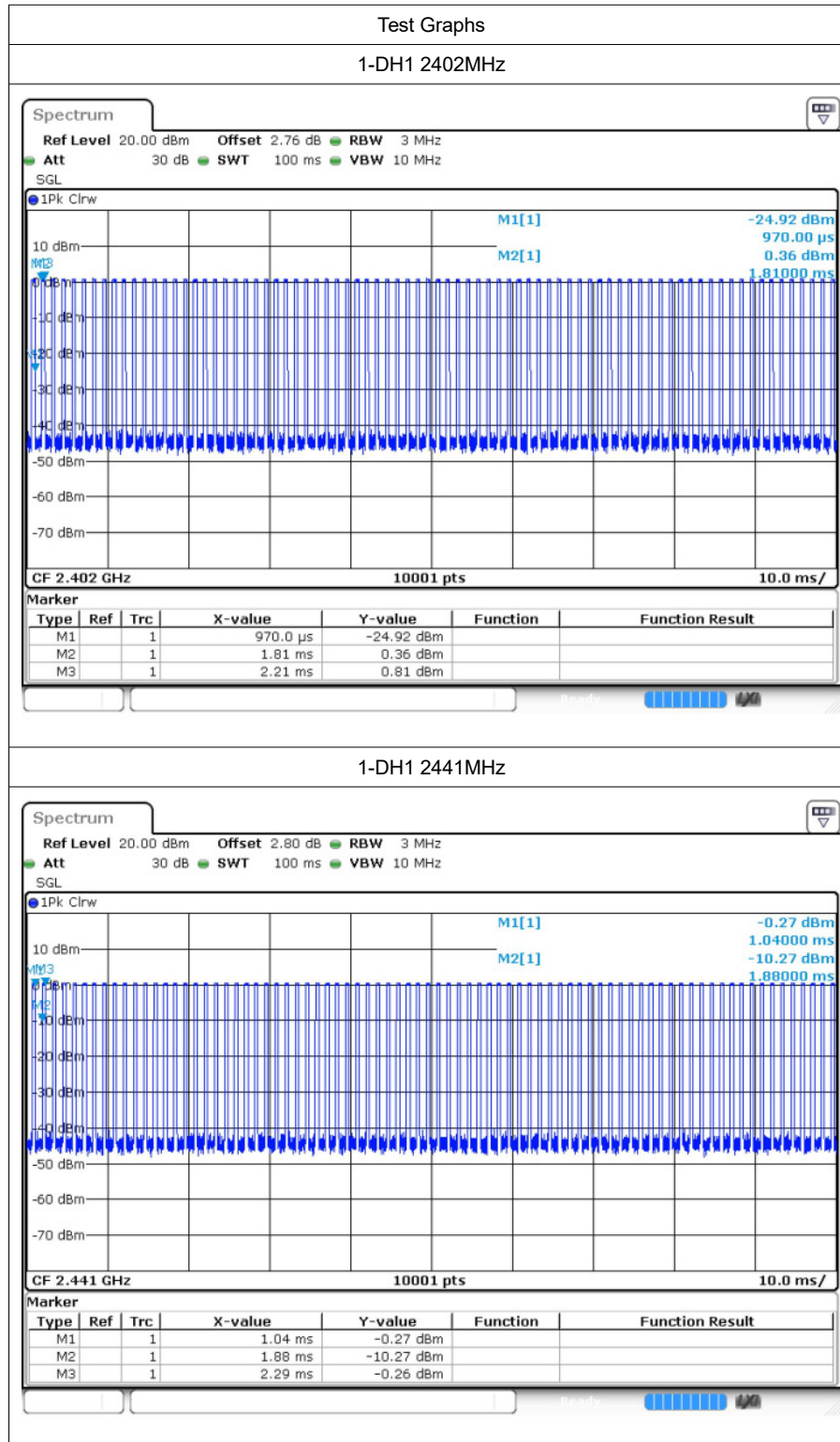
1 Duty Cycle

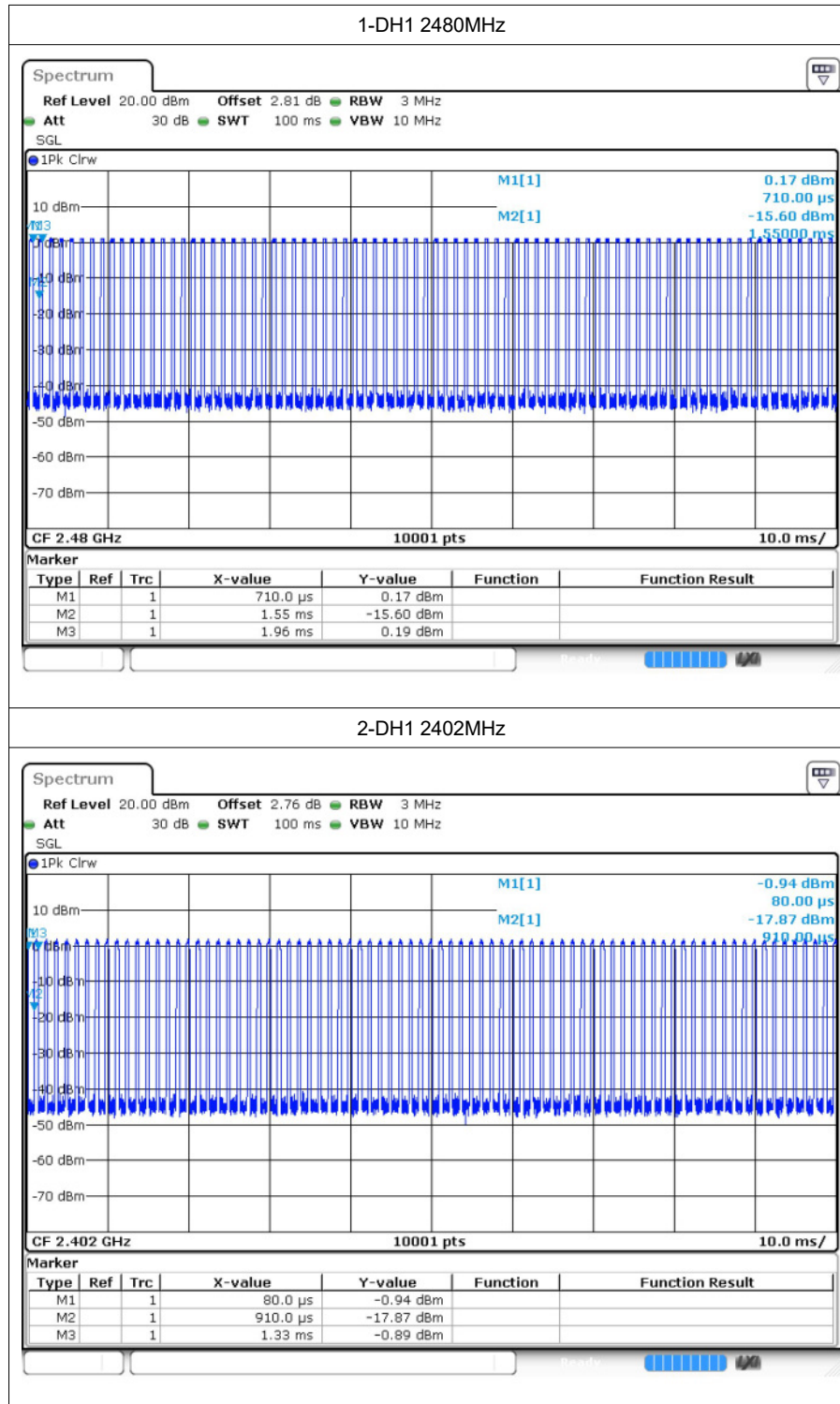
1.1 Test Result

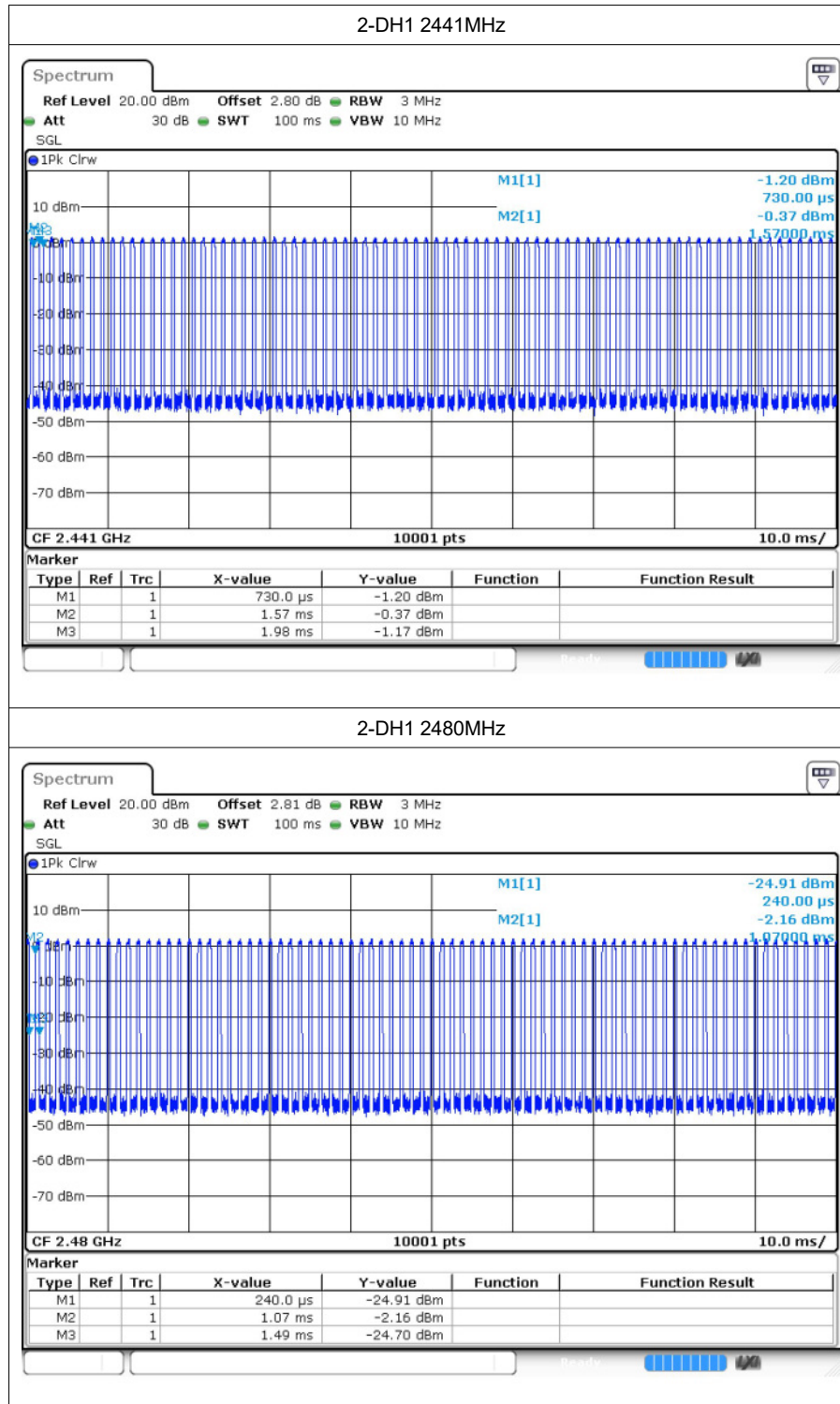
Mode	Frequency (MHz)	Duty Cycle (%)	Correction Factor	1/T (kHz)
1-DH1	2402	33.18	4.79	2.5
1-DH1	2441	33.6	4.74	2.44
1-DH1	2480	33.6	4.74	2.44
2-DH1	2402	34.41	4.63	2.38
2-DH1	2441	33.71	4.72	2.44
2-DH1	2480	34.39	4.64	2.38
3-DH1	2402	34.41	4.63	2.38
3-DH1	2441	34.4	4.63	2.38
3-DH1	2480	34.41	4.63	2.38

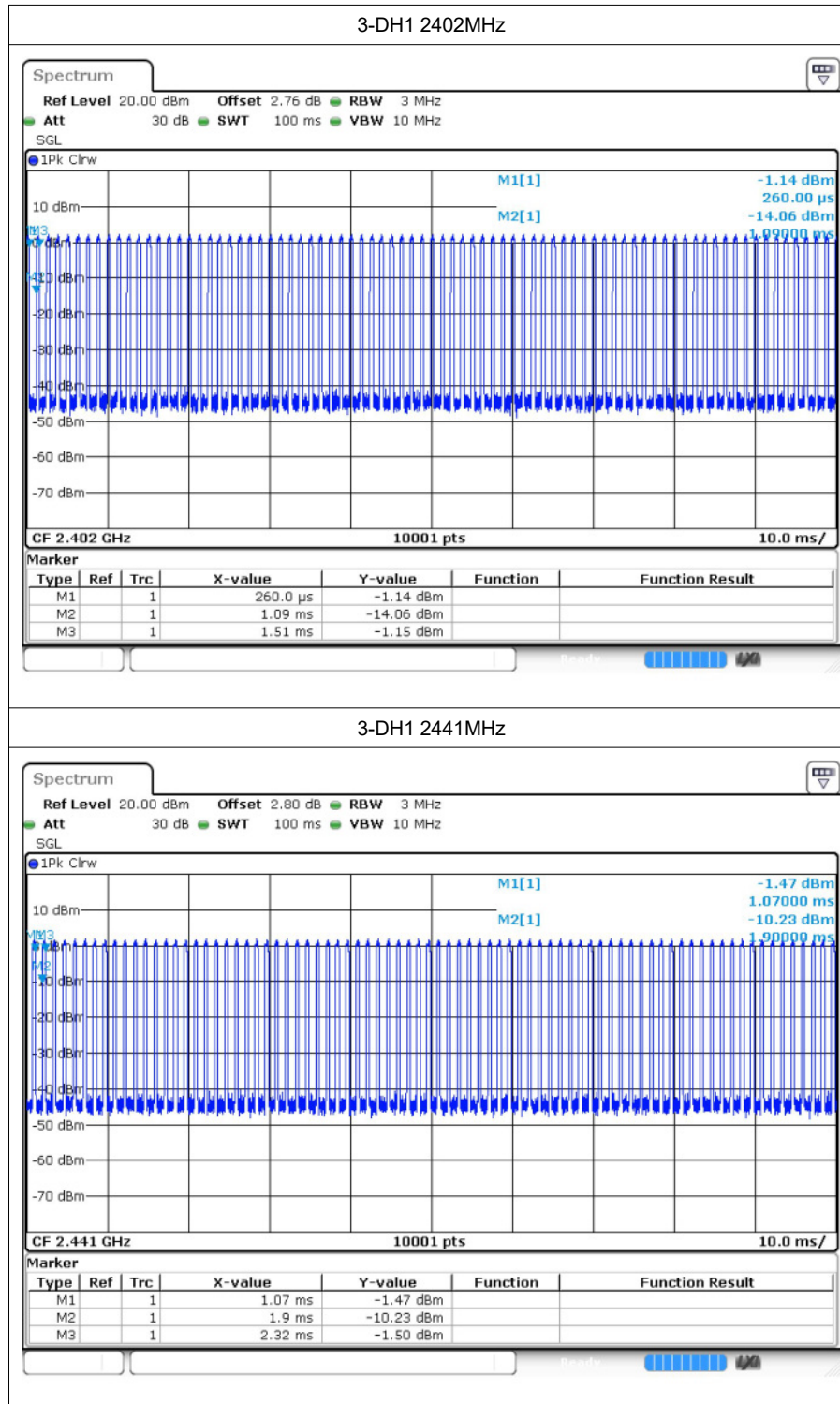
Note:left and right mirror leg were tested, left mirror leg is the worst mode, the report recorded only showing the data of the worst mode.

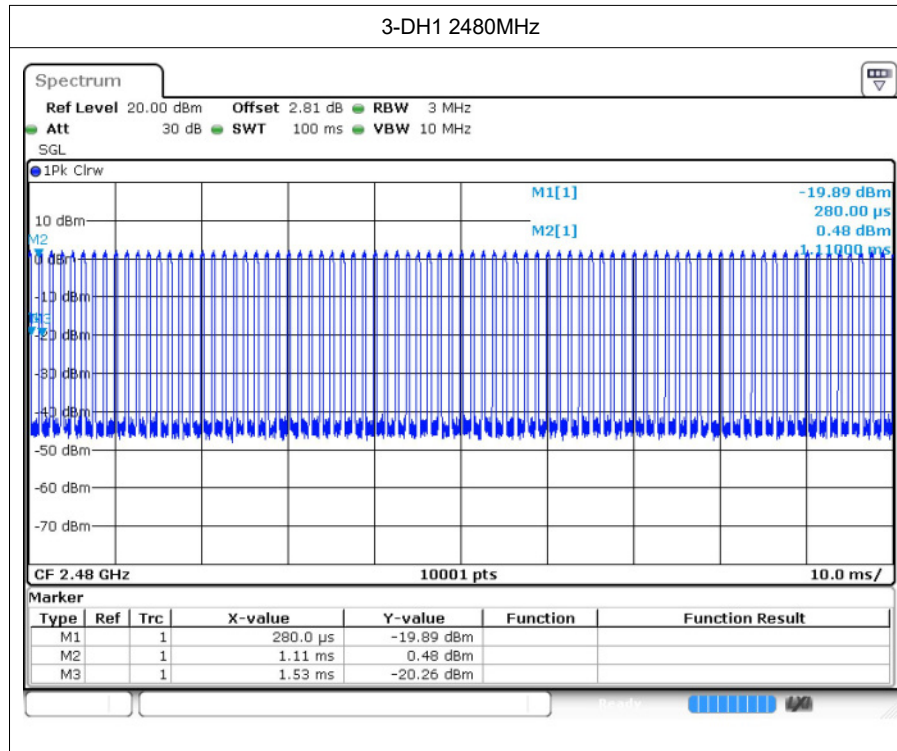
1.2 Test Graphs











2 Maximum Conducted Peak Output Power

2.1 Test Result

Left:

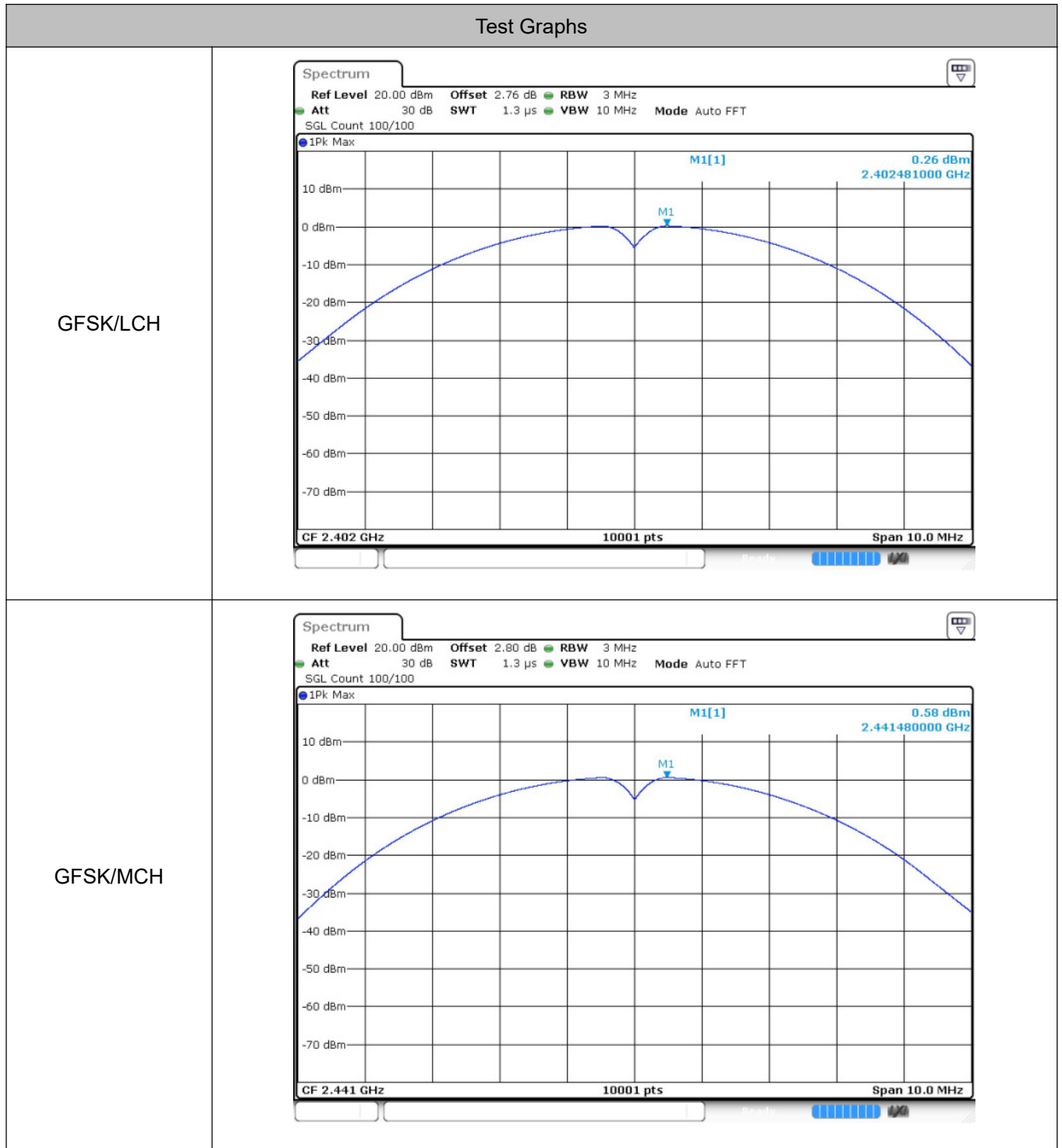
Mode	Channel.	Maximum Peak Output Power [dBm]	Limit [dBm]	Verdict
GFSK	LCH	0.26	21	Pass
	MCH	0.58	21	Pass
	HCH	1	21	Pass
$\pi/4$ DQPSK	LCH	0.64	21	Pass
	MCH	0.5	21	Pass
	HCH	1.36	21	Pass
8DPSK	LCH	1.29	21	Pass
	MCH	0.82	21	Pass
	HCH	1.01	21	Pass

Right:

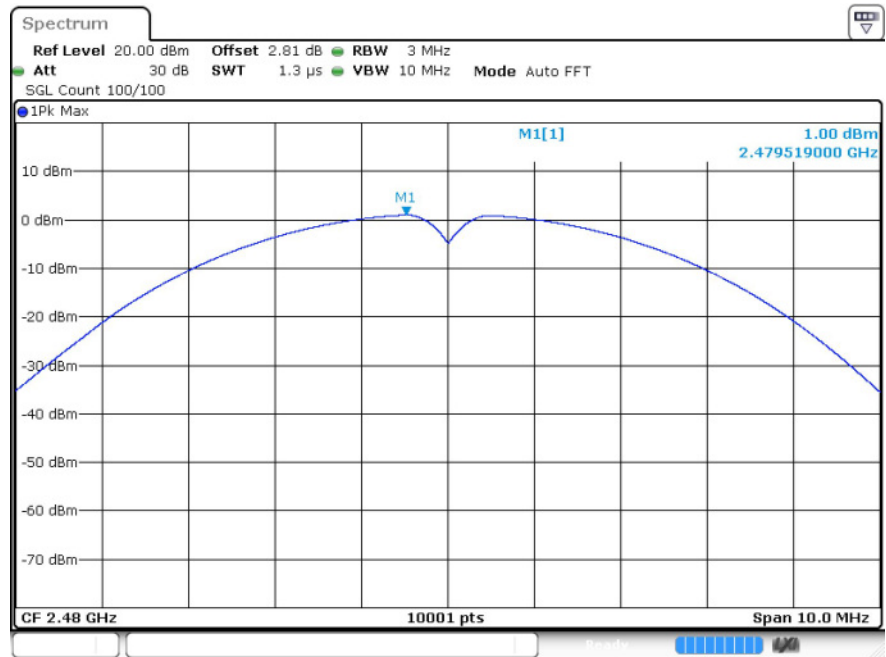
Mode	Channel.	Maximum Peak Output Power [dBm]	Limit [dBm]	Verdict
GFSK	LCH	0.65	21	Pass
	MCH	0.31	21	Pass
	HCH	0.81	21	Pass
$\pi/4$ DQPSK	LCH	1.06	21	Pass
	MCH	0.45	21	Pass
	HCH	0.81	21	Pass
8DPSK	LCH	0.94	21	Pass
	MCH	0.79	21	Pass
	HCH	0.97	21	Pass

2.2 Test Graphs

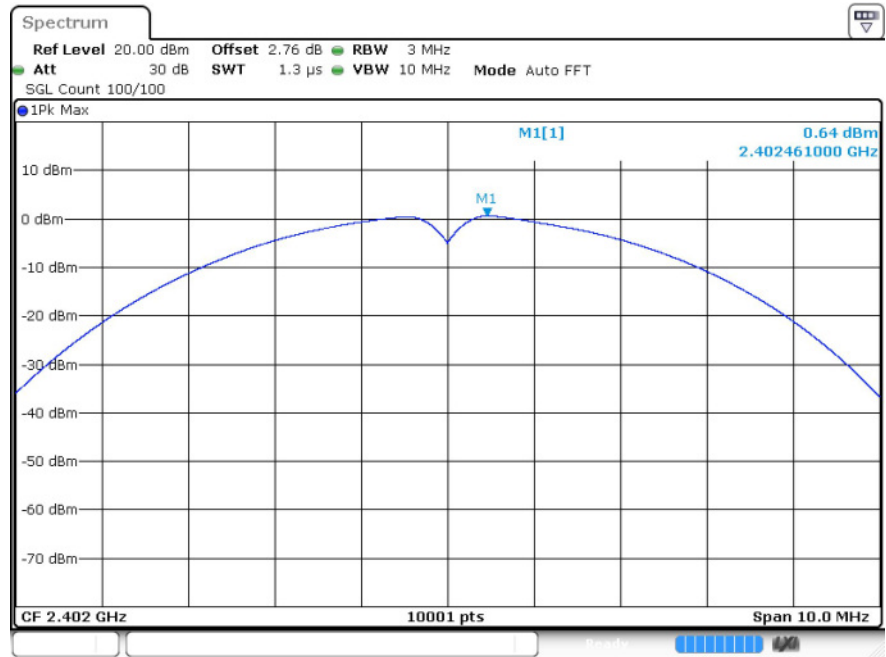
Left:



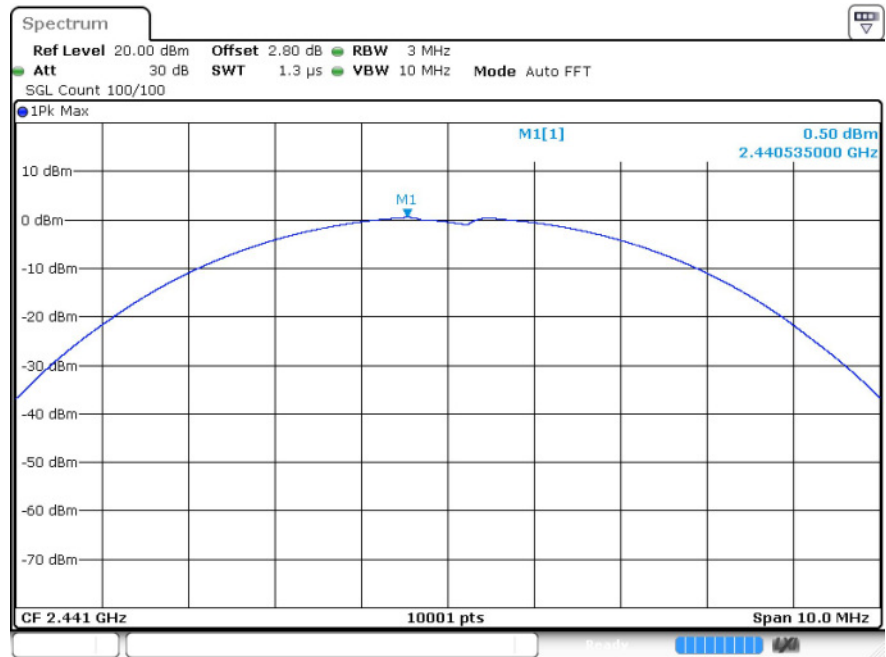
GFSK/HCH



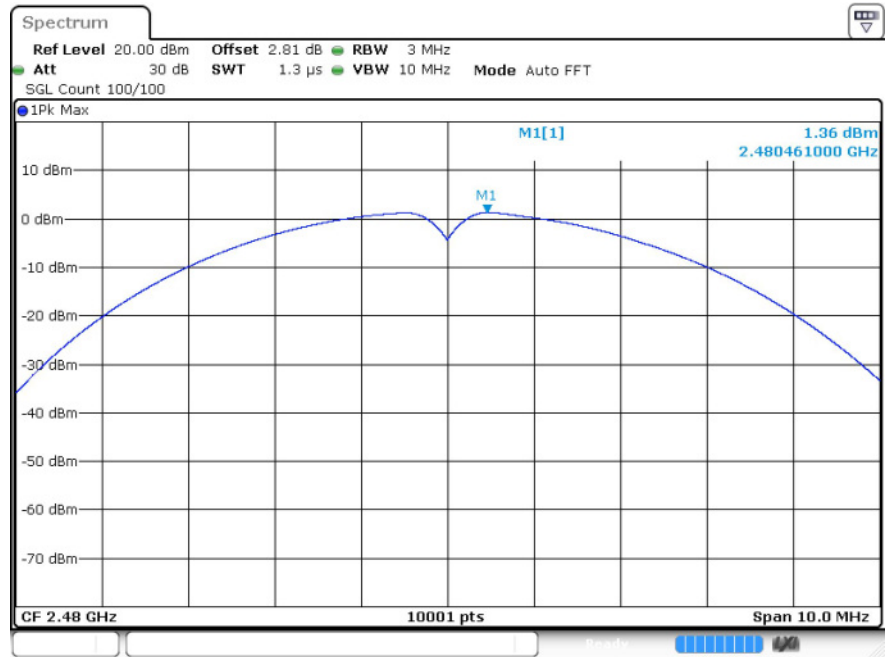
$\pi/4$ DQPSK/LCH



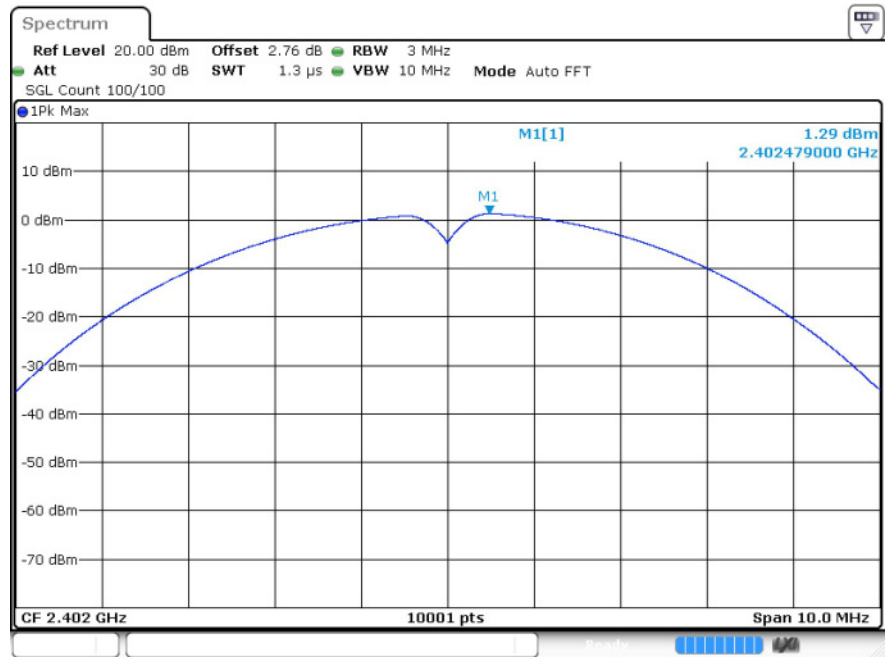
$\pi/4$ DQPSK/MCH



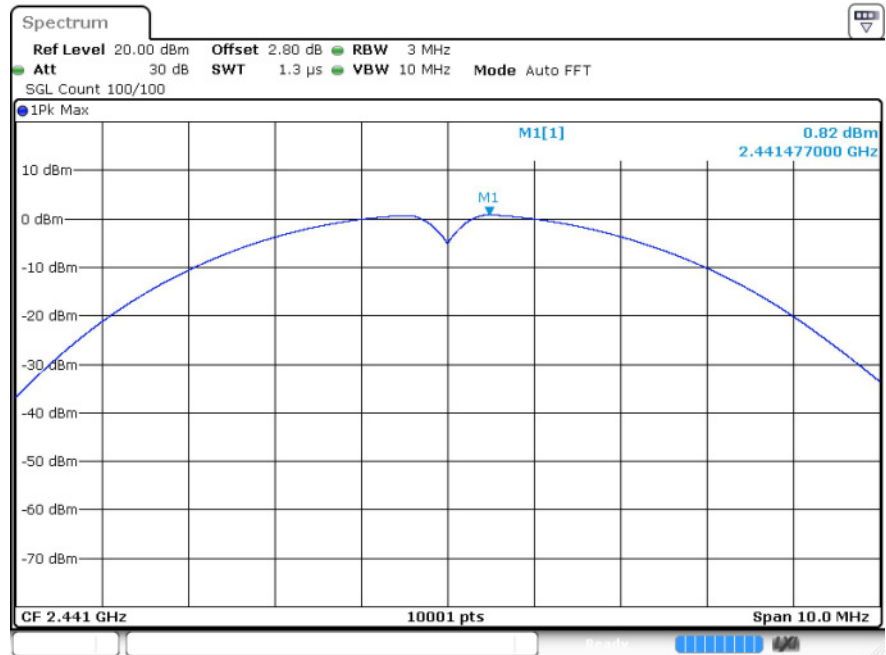
$\pi/4$ DQPSK/HCH



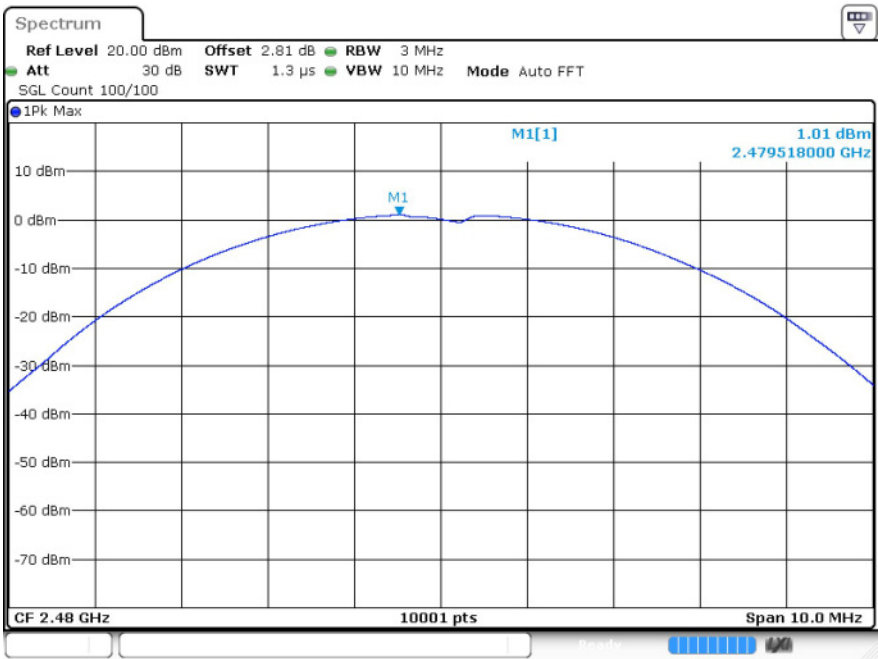
8DPSK/LCH



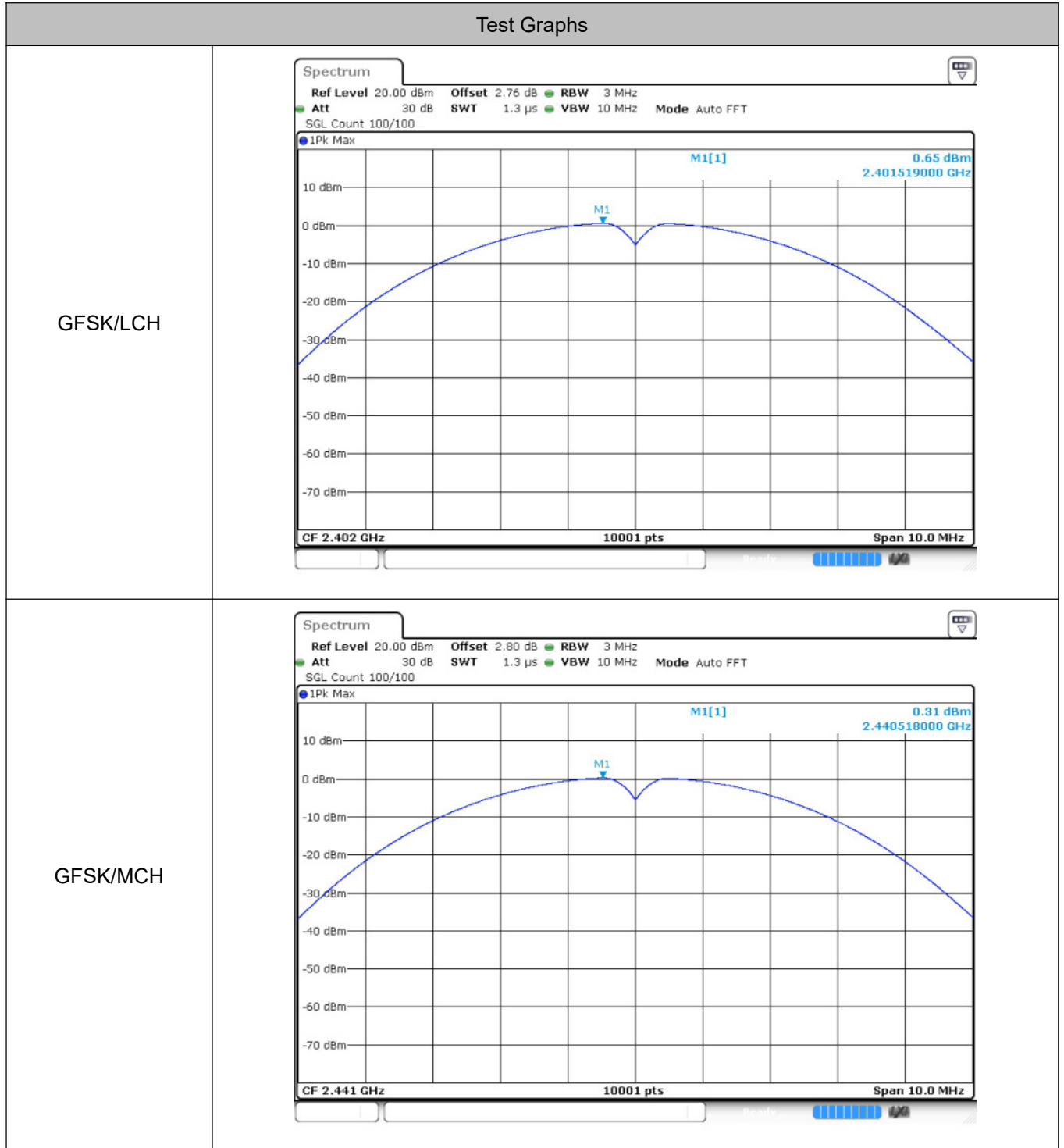
8DPSK/MCH



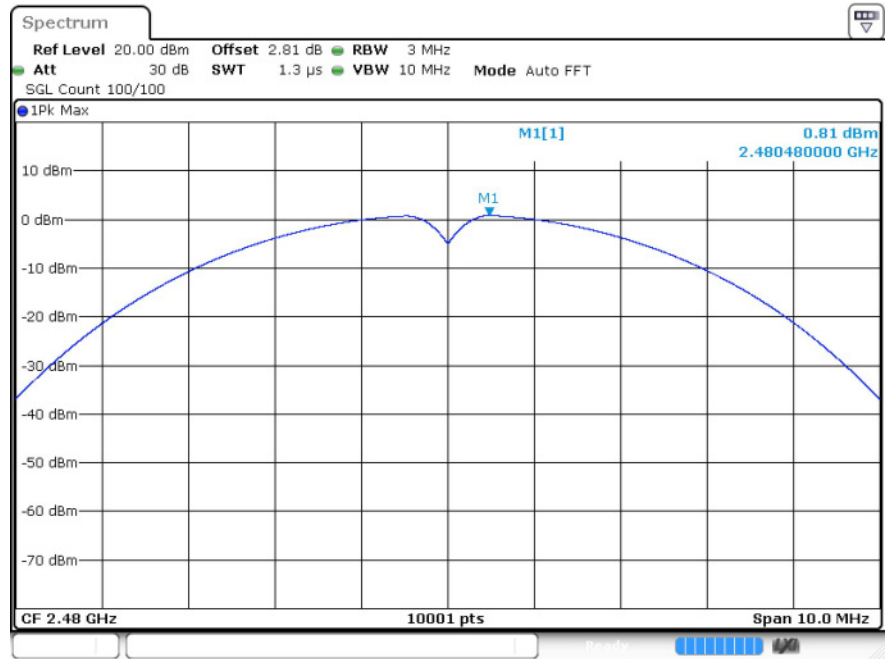
8DPSK/HCH



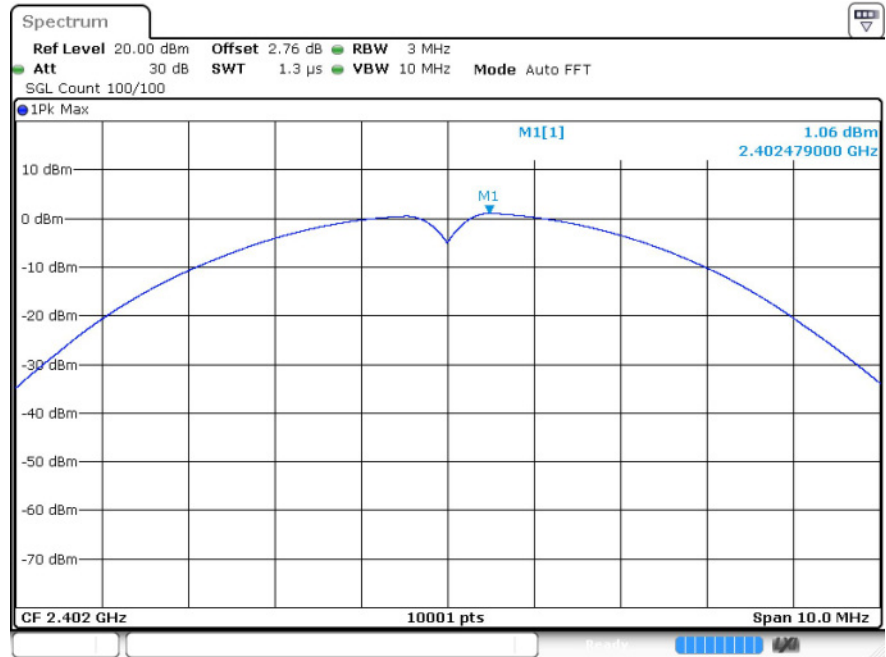
Right:



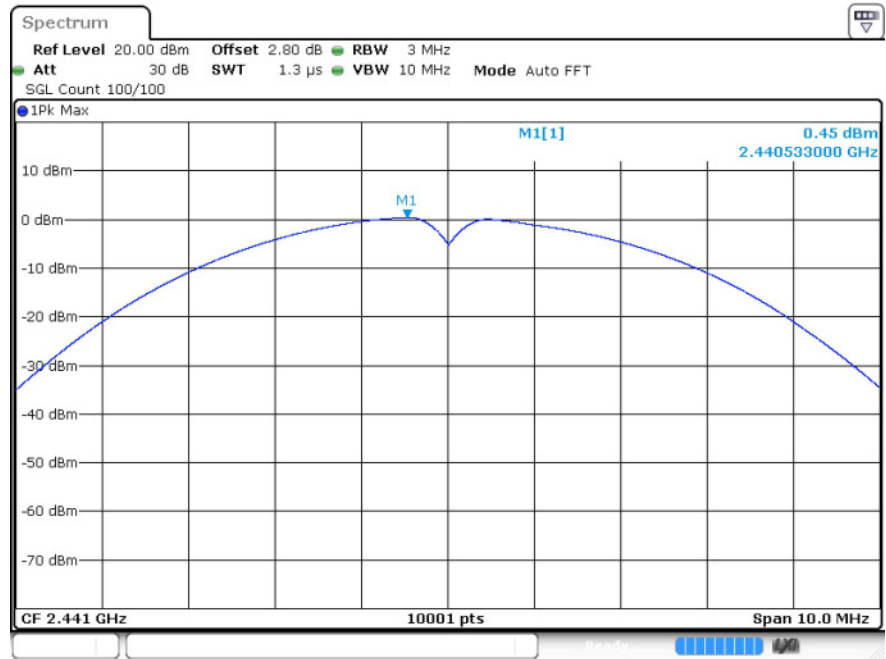
GFSK/HCH



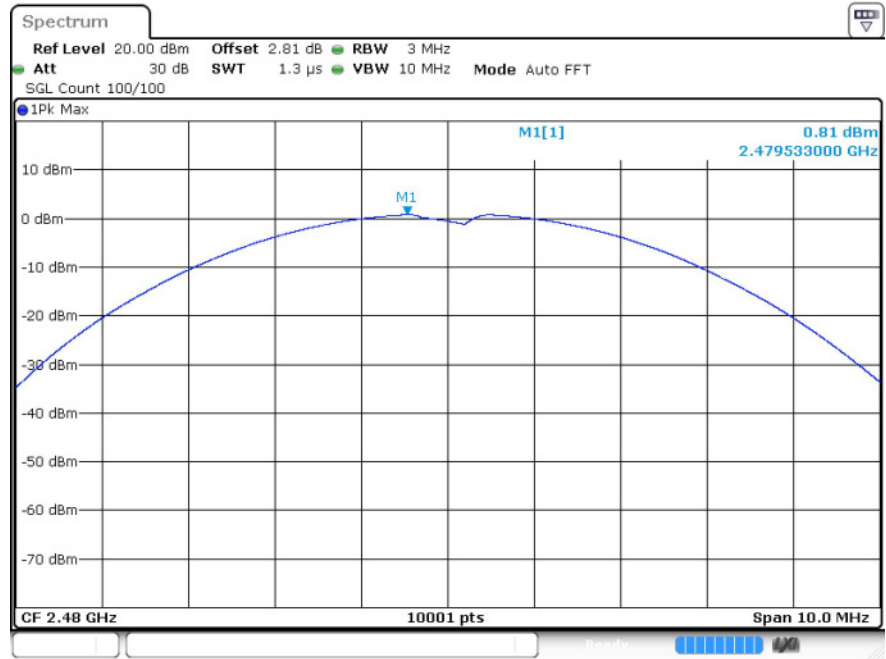
$\pi/4$ DQPSK/LCH



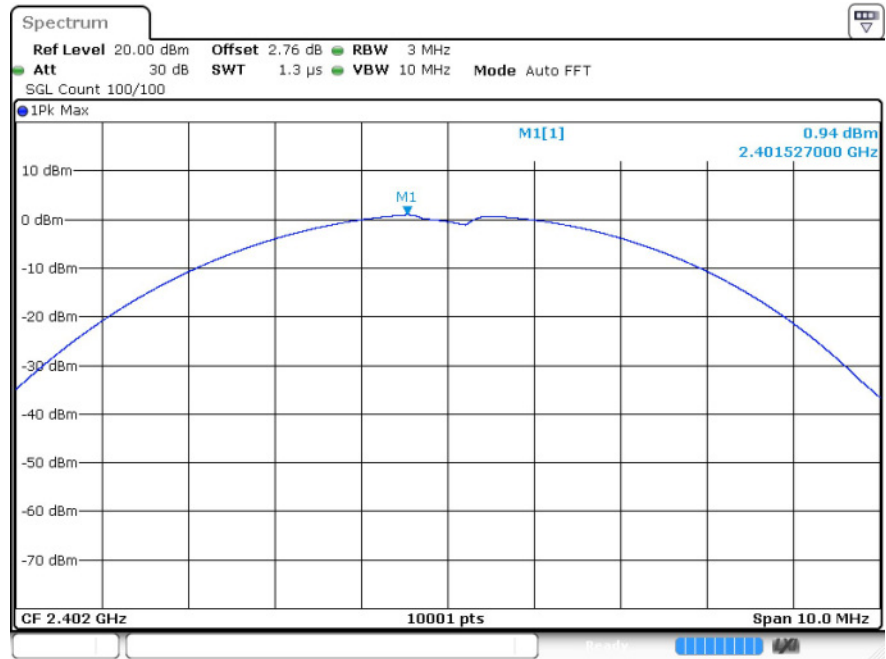
$\pi/4$ DQPSK/MCH



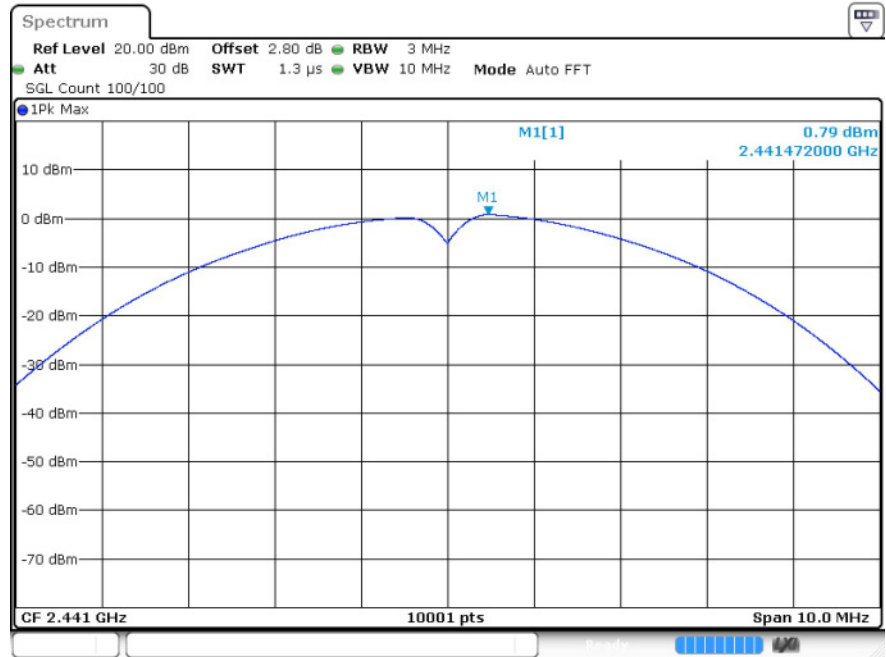
$\pi/4$ DQPSK/HCH



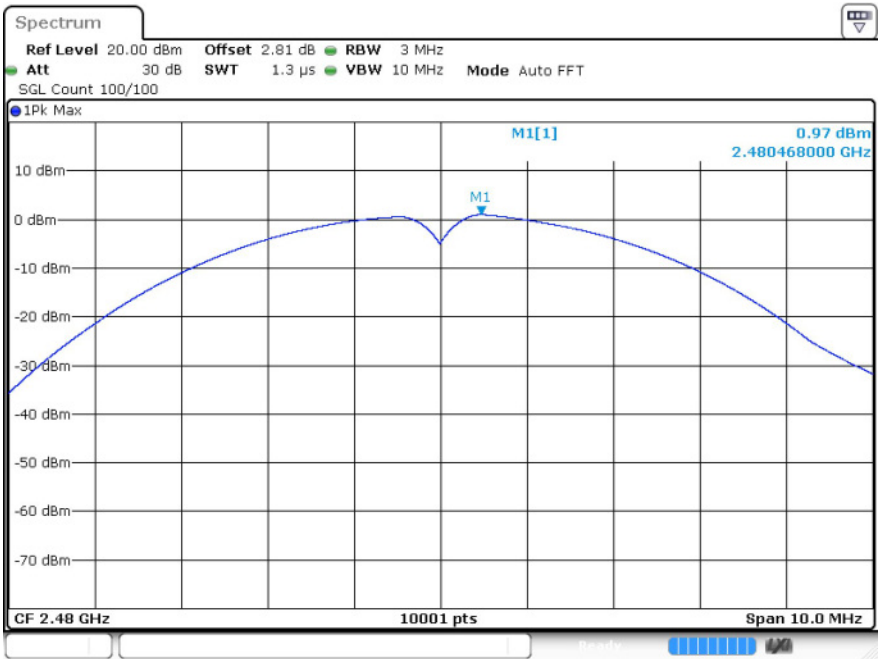
8DPSK/LCH



8DPSK/MCH



8DPSK/HCH



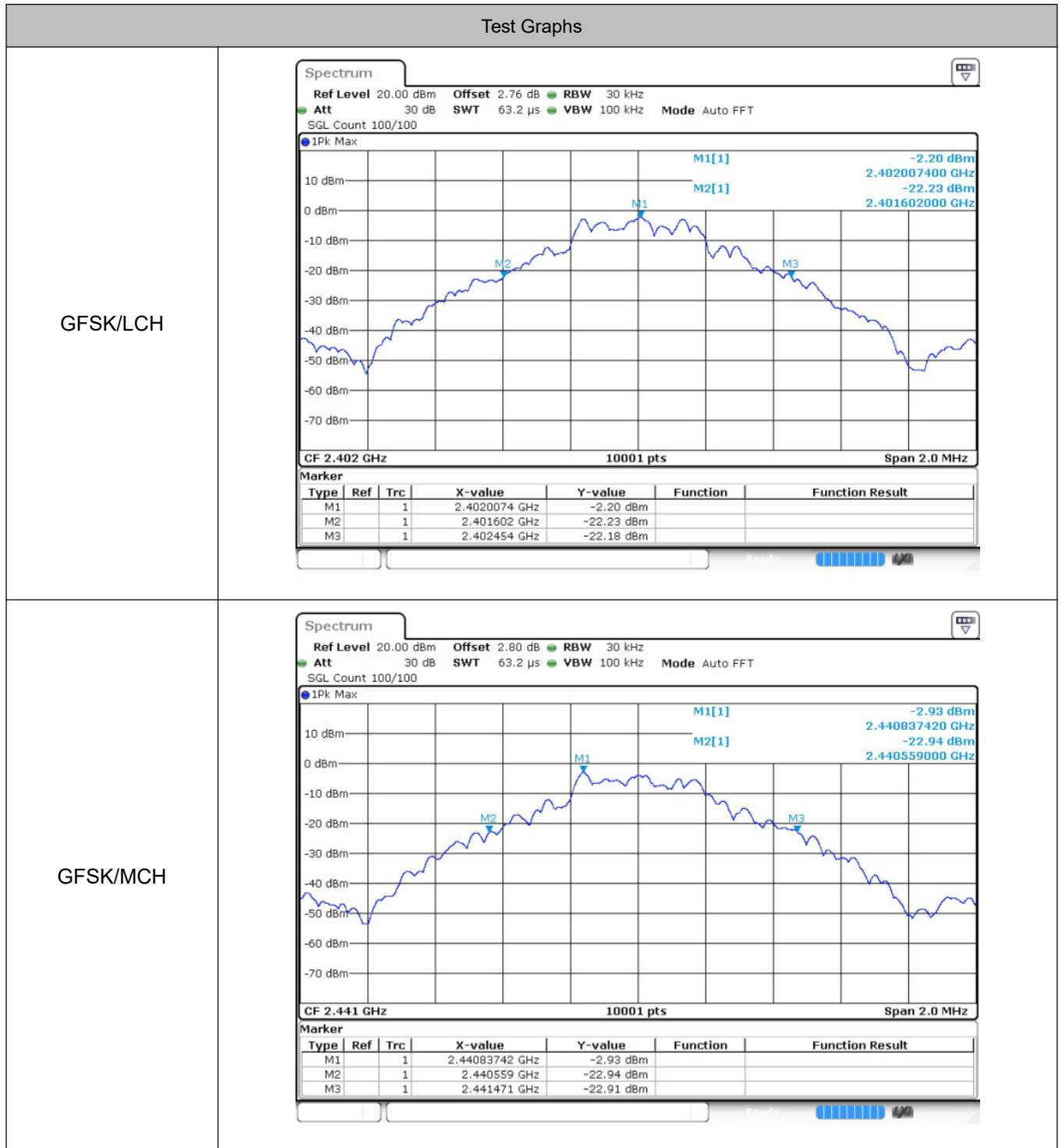
3 20dB Bandwidth

3.1 Test Result

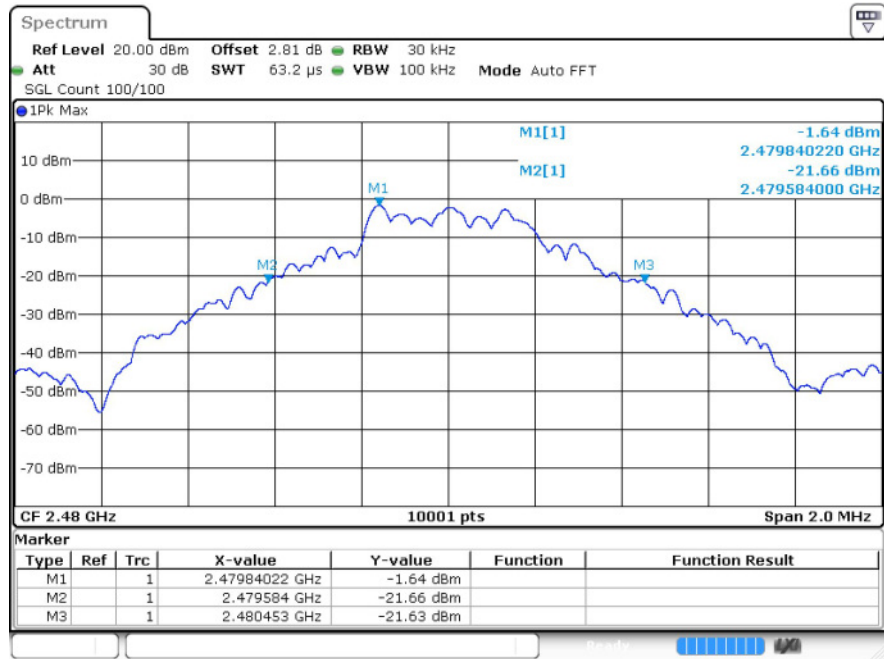
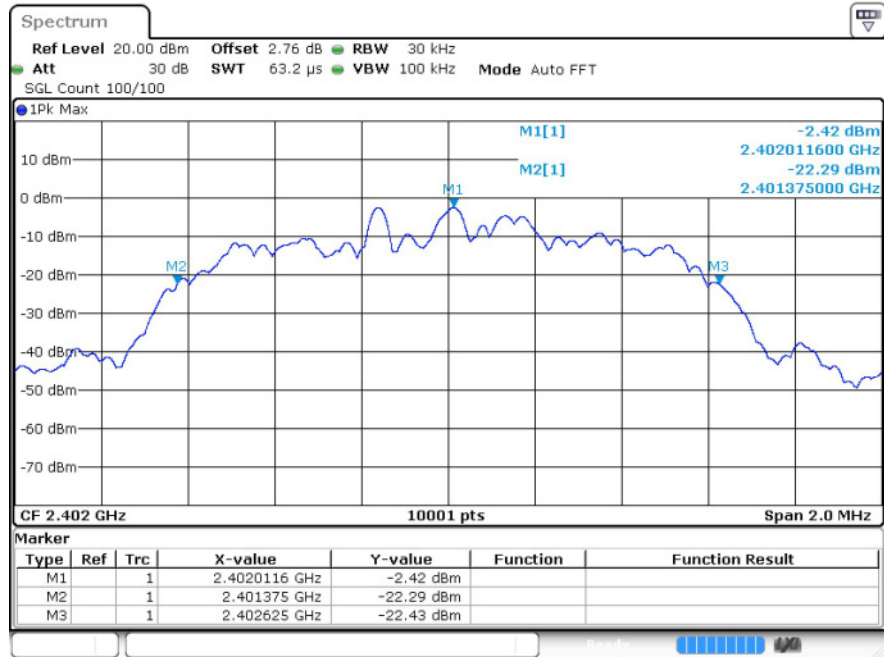
Mode	Channel.	20dB Bandwidth [MHz]	Limit [MHz]	Verdict
GFSK	LCH	0.852	Not Specified	Pass
	MCH	0.912	Not Specified	Pass
	HCH	0.869	Not Specified	Pass
$\pi/4$ DQPSK	LCH	1.25	Not Specified	Pass
	MCH	1.223	Not Specified	Pass
	HCH	1.236	Not Specified	Pass
8DPSK	LCH	1.203	Not Specified	Pass
	MCH	1.202	Not Specified	Pass
	HCH	1.207	Not Specified	Pass

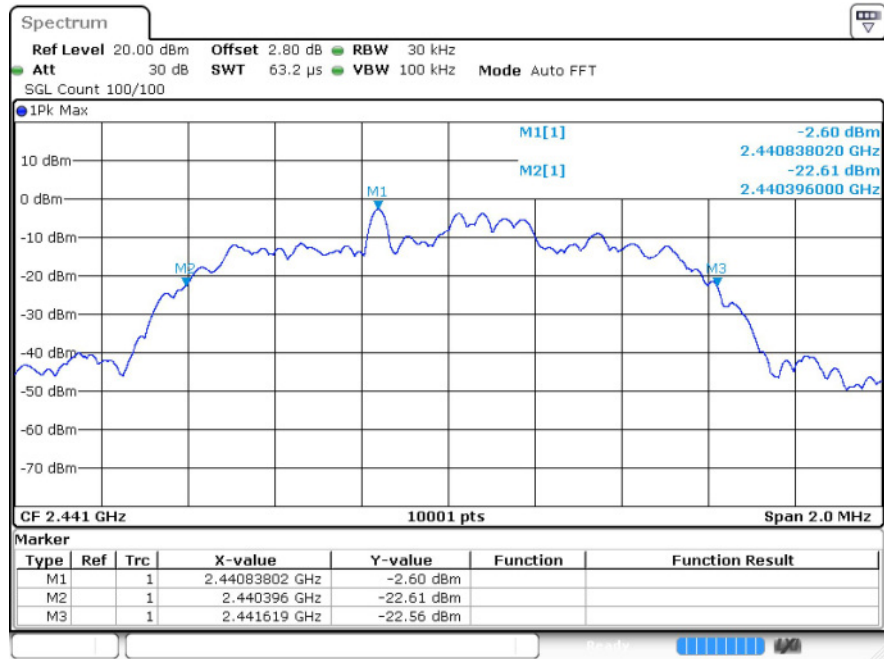
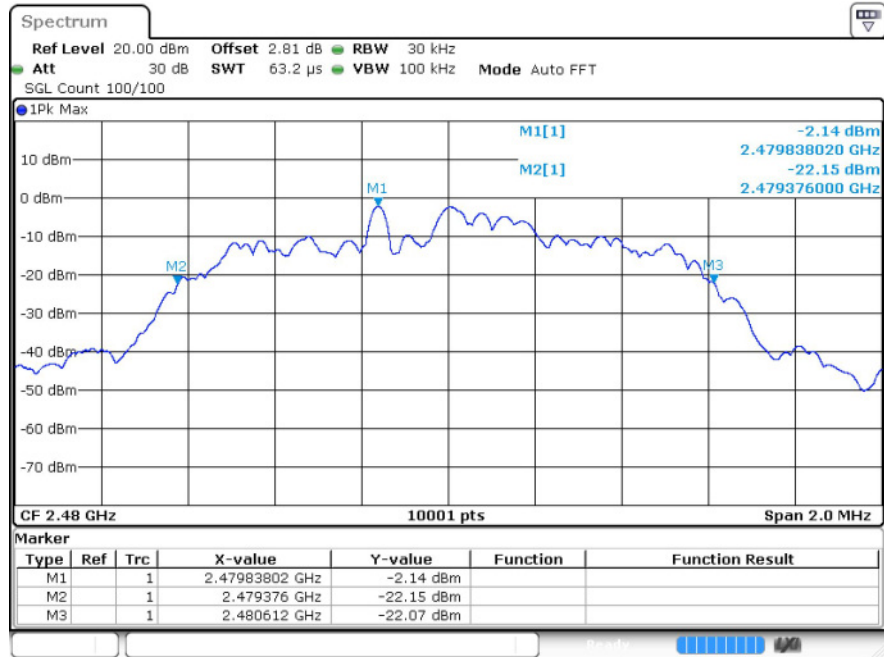
Note:left and right mirror leg were tested, left mirror leg is the worst mode, the report recorded only showing the data of the worst mode.

3.2 Test Graphs

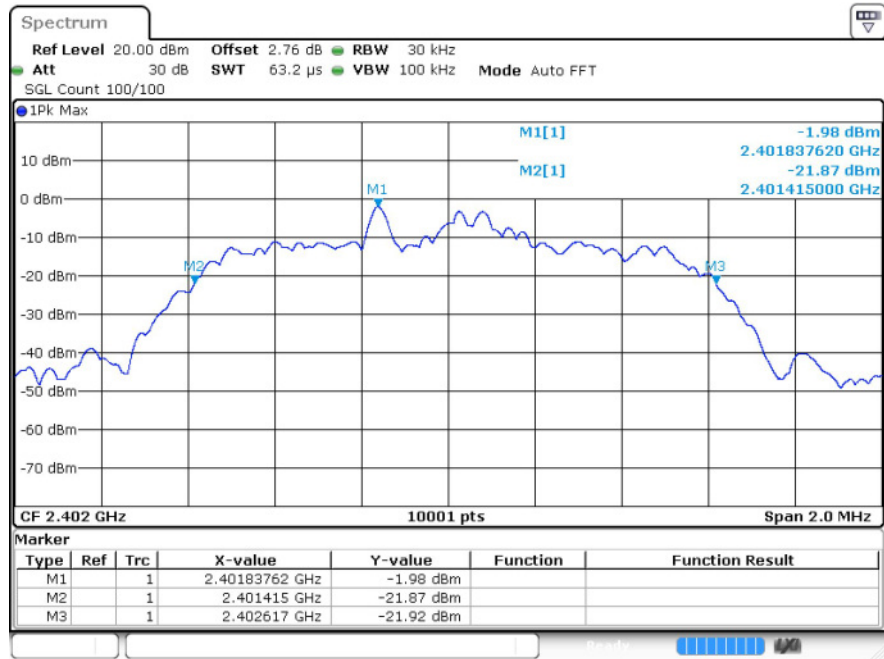


GFSK/HCH

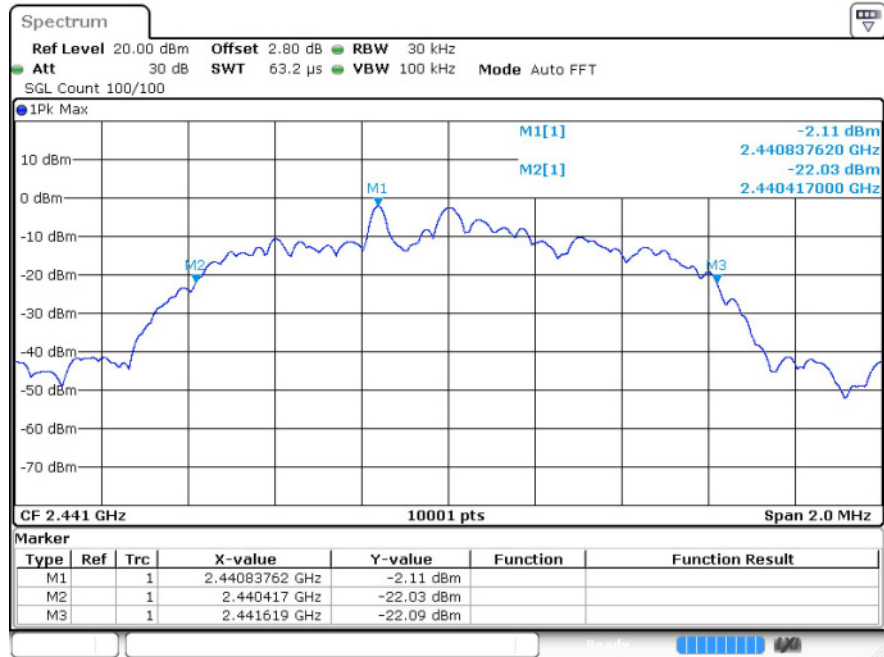

 $\pi/4$ DQPSK/LCH


$\pi/4$ DQPSK/MCH

 $\pi/4$ DQPSK/HCH


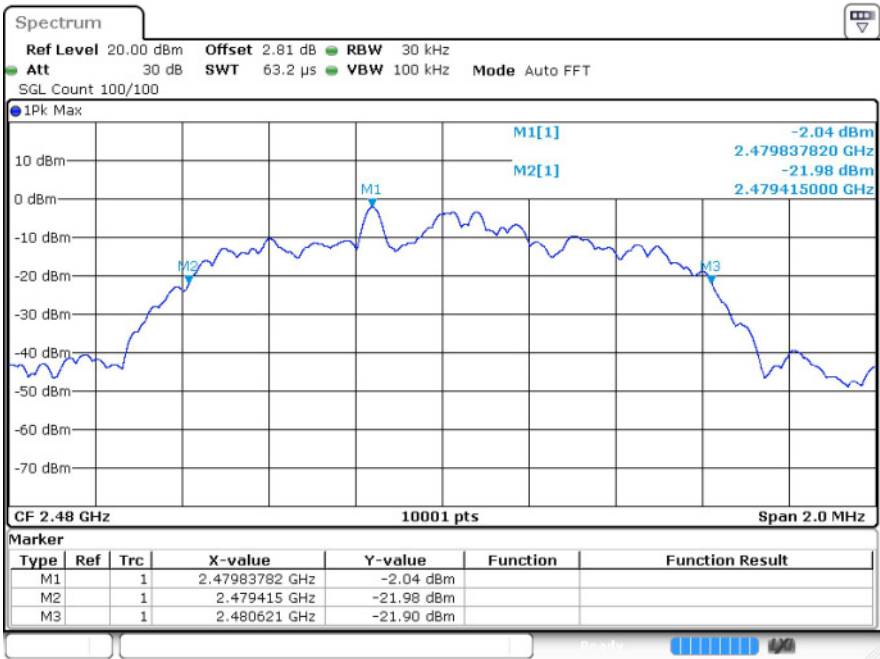
8DPSK/LCH



8DPSK/MCH



8DPSK/HCH



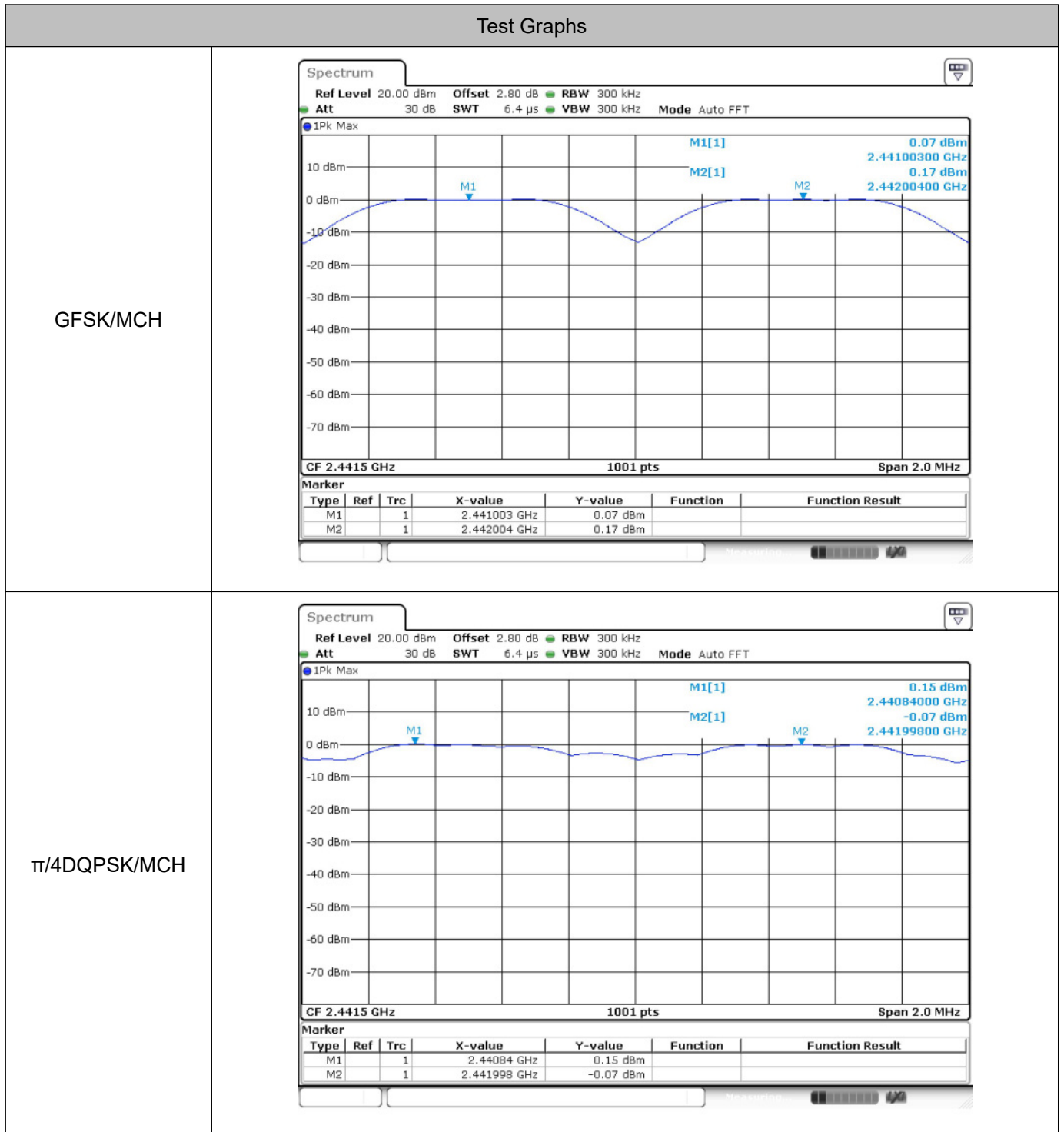
4 Carrier Frequency Separation

4.1 Test Result

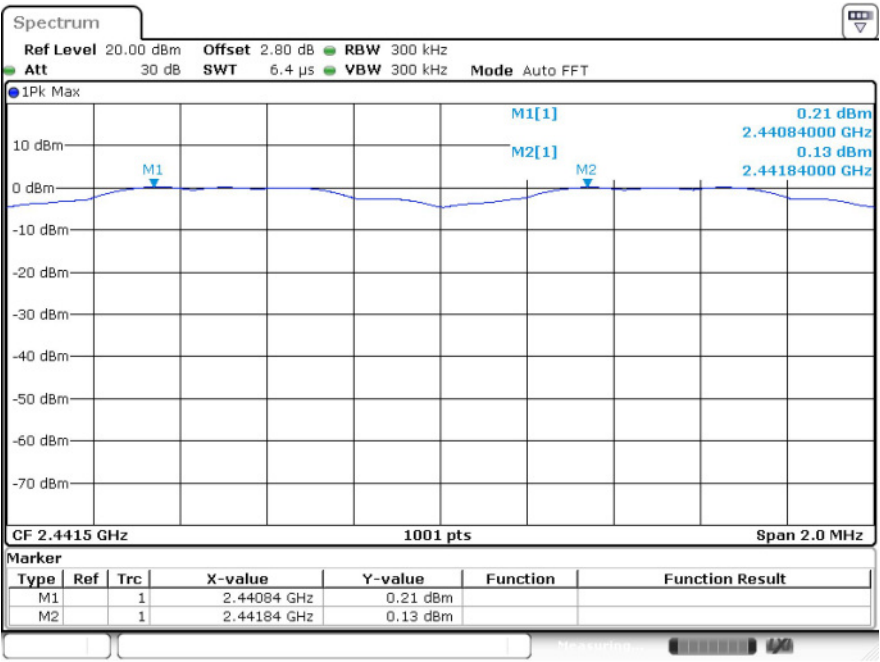
Mode	Channel.	Carrier Frequency Separation [MHz]	Limit [MHz]	Verdict
GFSK	MCH	1.001	0.608	Pass
$\pi/4$ DQPSK	MCH	1.158	0.815	Pass
8DPSK	MCH	1	0.801	Pass

Note:left and right mirror leg were tested, left mirror leg is the worst mode, the report recorded only showing the data of the worst mode.

4.2 Test Graphs



8DPSK/MCH



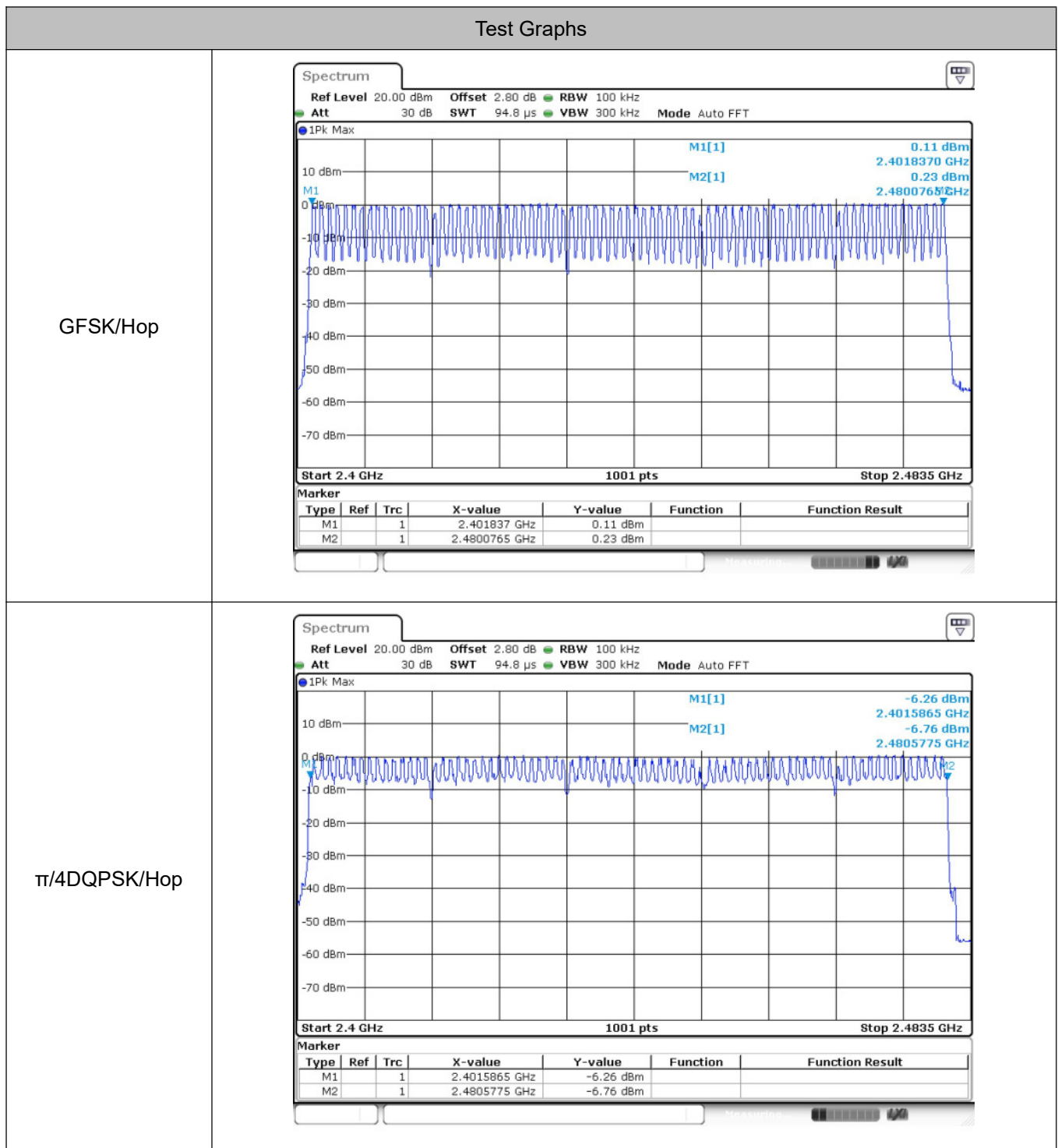
5 Hopping Channel Number

5.1 Test Result

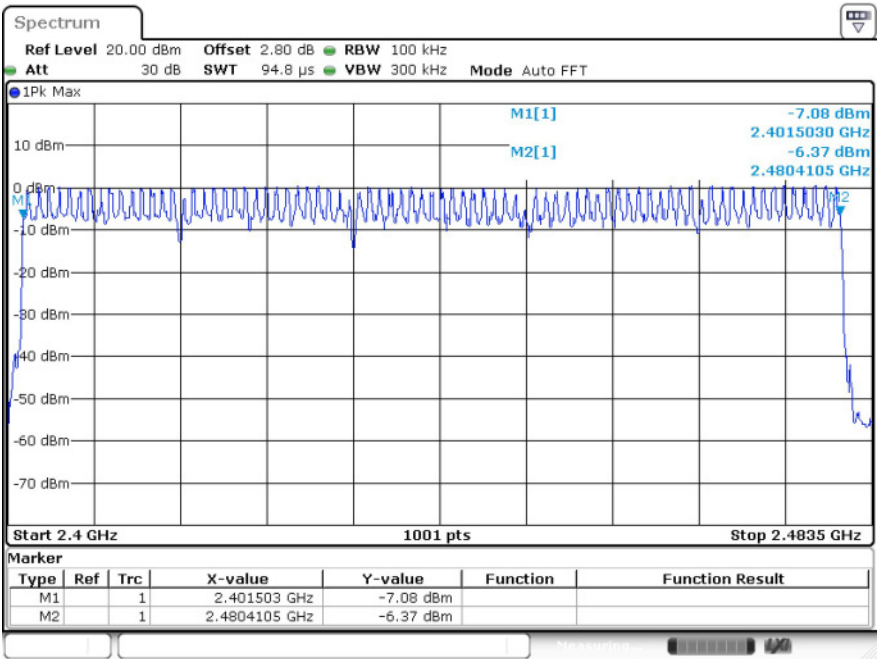
Mode	Channel.	Number of Hopping Channel [N]	Limit [N]	Verdict
GFSK	Hop	79	≥ 15	PASS
$\pi/4$ DQPSK	Hop	79	≥ 15	PASS
8DPSK	Hop	79	≥ 15	PASS

Note:left and right mirror leg were tested, left mirror leg is the worst mode, the report recorded only showing the data of the worst mode.

5.2 Test Graphs



8DPSK/Hop





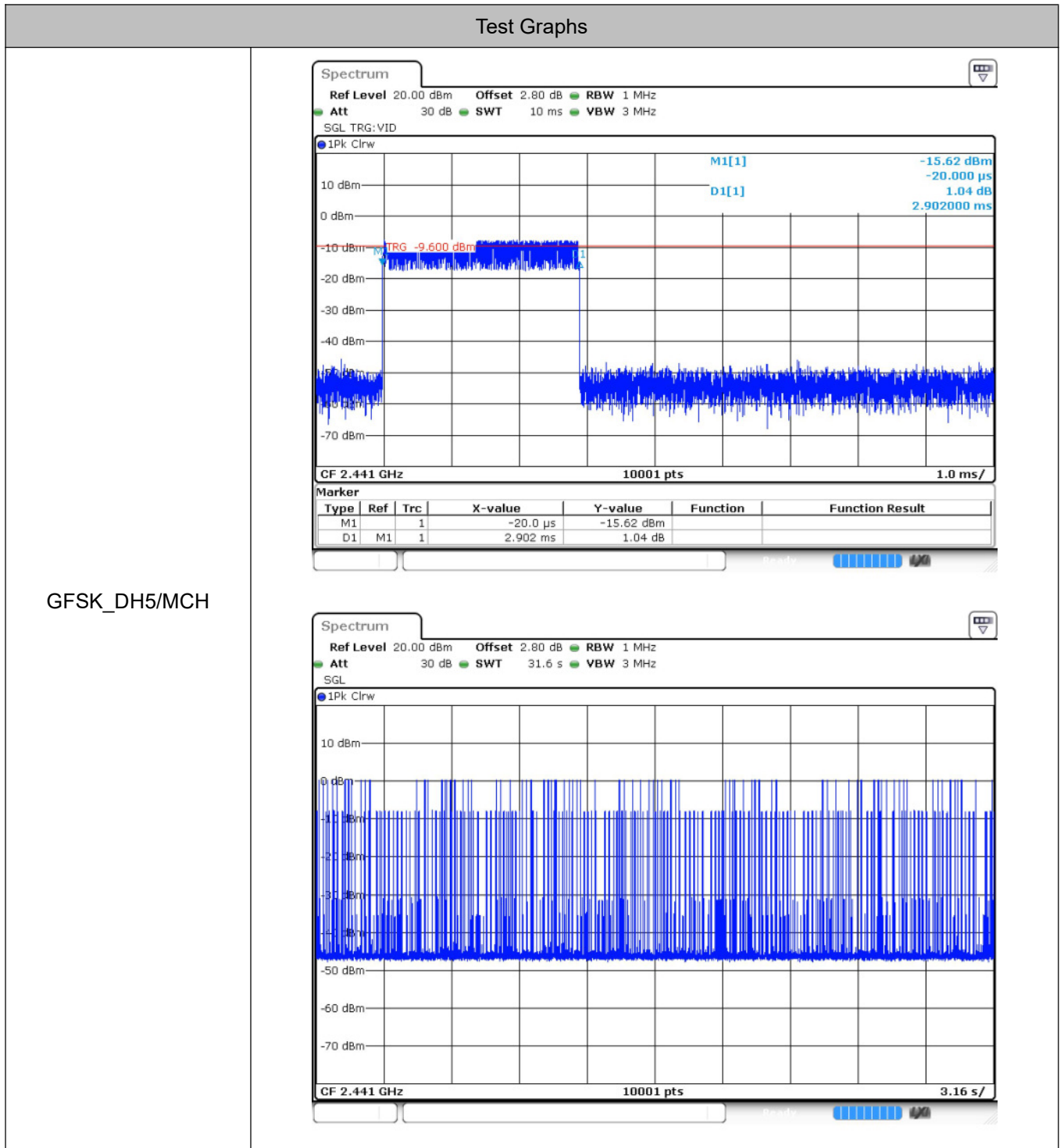
6 Dwell Time

6.1 Test Result

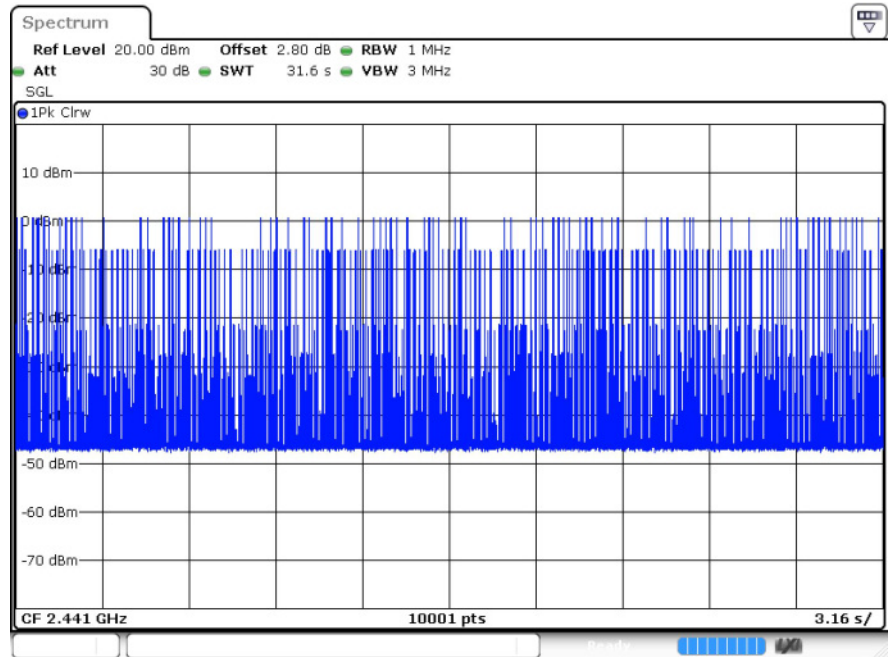
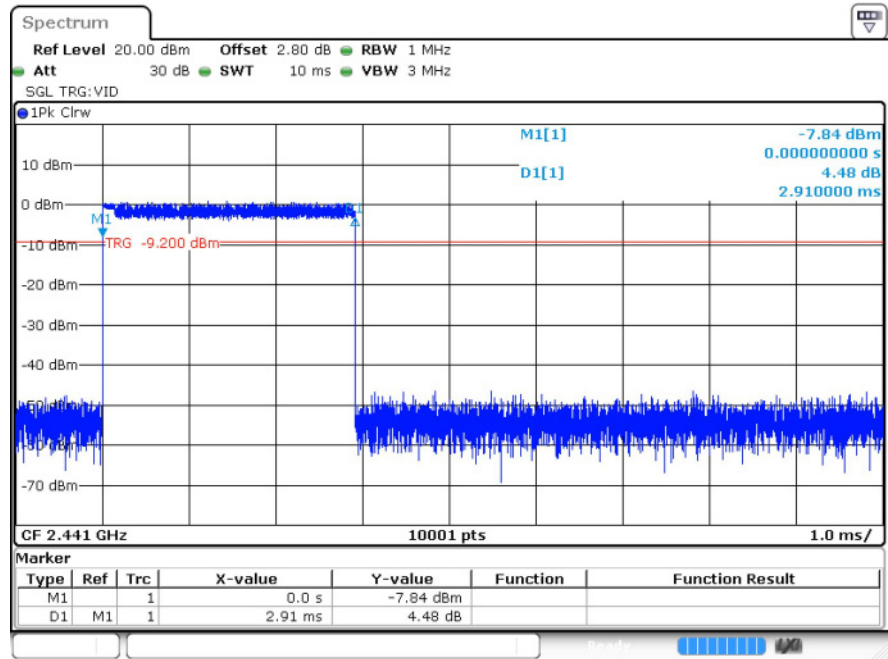
Mode	Packet	Channel	Burst Width [ms/hop/ch]	Total Hops[hop*ch]	Dwell Time[ms]	Limit [s]	Verdict
GFSK	DH5	MCH	2.902	100	290.2	0.4	Pass
$\pi/4$ DQPSK	2DH5	MCH	2.91	105	305.55	0.4	Pass
8DPSK	3DH5	MCH	2.913	101	294.213	0.4	Pass

Note:left and right mirror leg were tested, left mirror leg is the worst mode, the report recorded only showing the data of the worst mode.

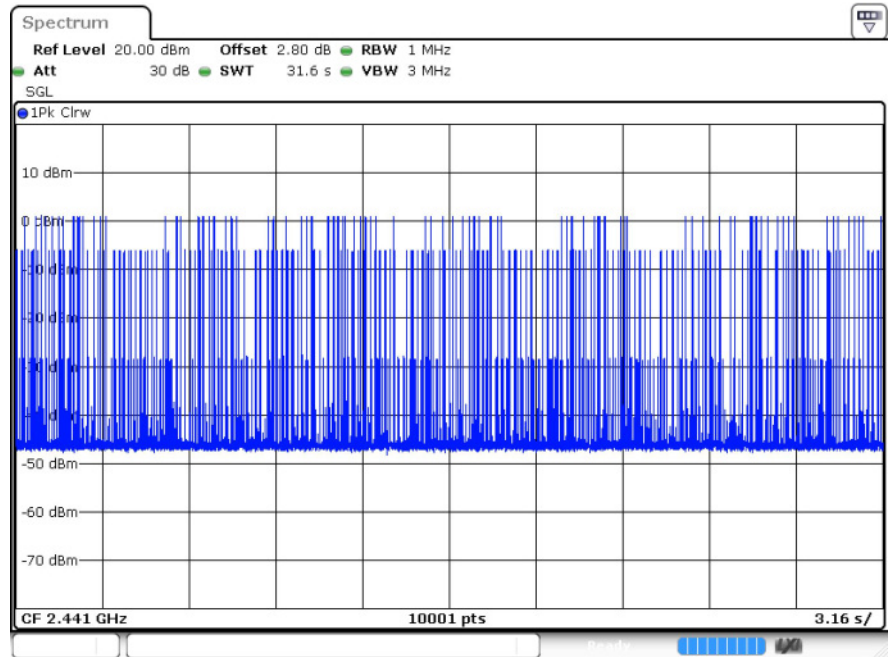
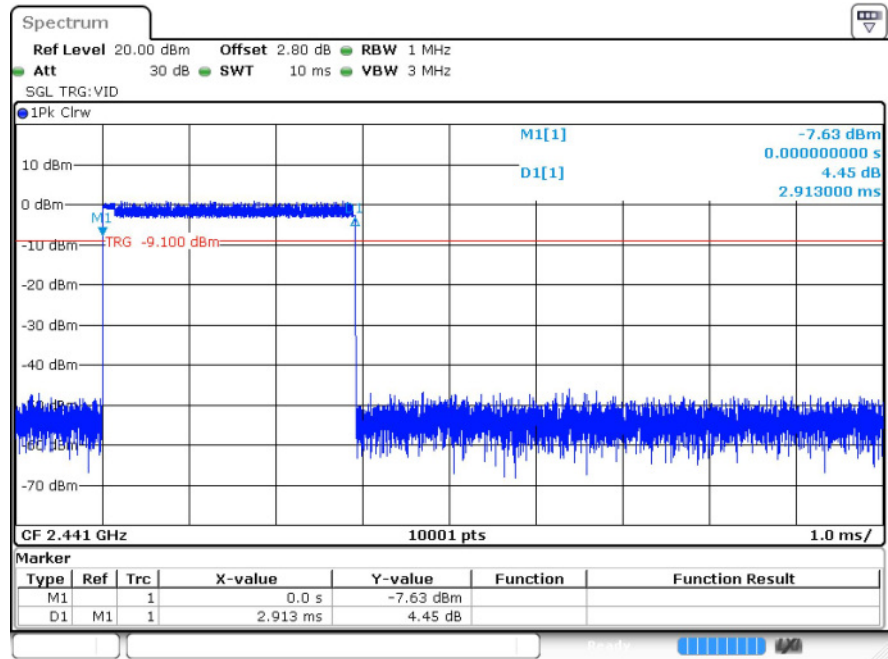
6.2 Test Graphs



$\pi/4$ DQPSK
_2DH5/MCH



8DPSK_3DH5/MCH



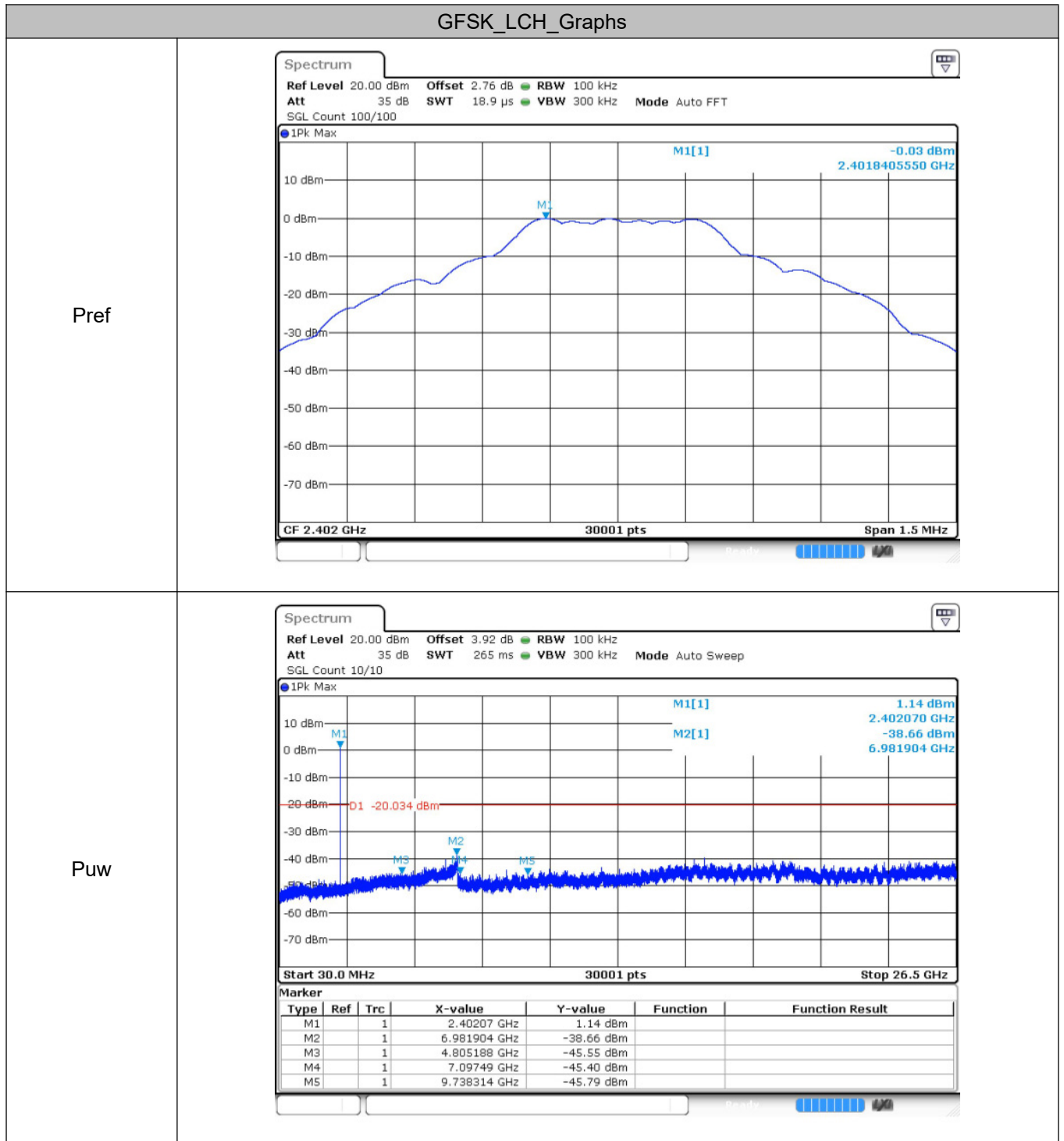
7 RF Conducted Spurious Emissions

7.1 Test Result

Mode	Channel	Max. Level [dBc]	Limit [dBc]	Verdict
GFSK	LCH	-38.62	-20	Pass
	MCH	-40.15	-20	Pass
	HCH	-39.88	-20	Pass
π /4DQPSK	LCH	-39.86	-20	Pass
	MCH	-39.17	-20	Pass
	HCH	-39.72	-20	Pass
8DPSK	LCH	-39.11	-20	Pass
	MCH	-39.47	-20	Pass
	HCH	-38.92	-20	Pass

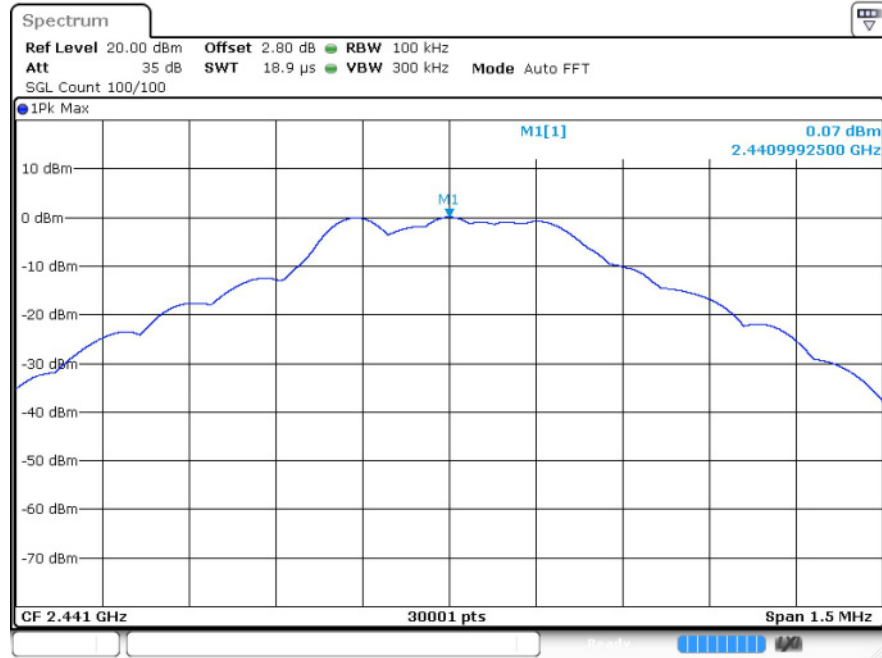
Note:left and right mirror leg were tested, left mirror leg is the worst mode, the report recorded only showing the data of the worst mode.

7.2 Test Graphs

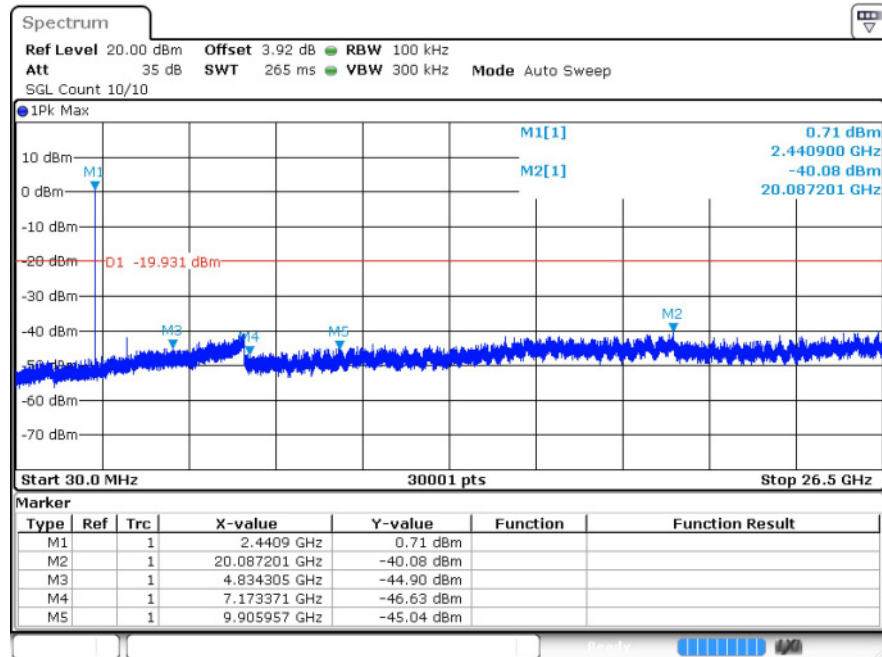


GFSK_MCH_Graphs

Pref

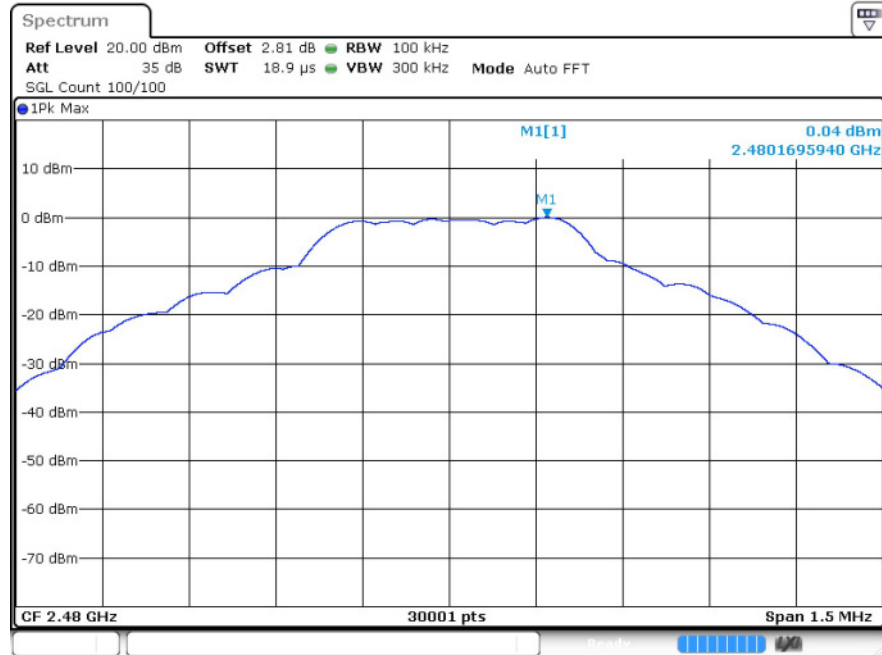


Puw



GFSK_HCH_Graphs

Pref



Puw

