

Appendix A

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

Product Name: Wireless Gaming Headset

Trade Mark: N/A

Test Model: FC-200

Environmental Conditions

Temperature:	25.3°C
Relative Humidity:	52.4%
ATM Pressure:	101Kpa
Test Engineer:	Emiya lin
Supervised by:	Simba Haung

Contents

Page

COVER PAGE

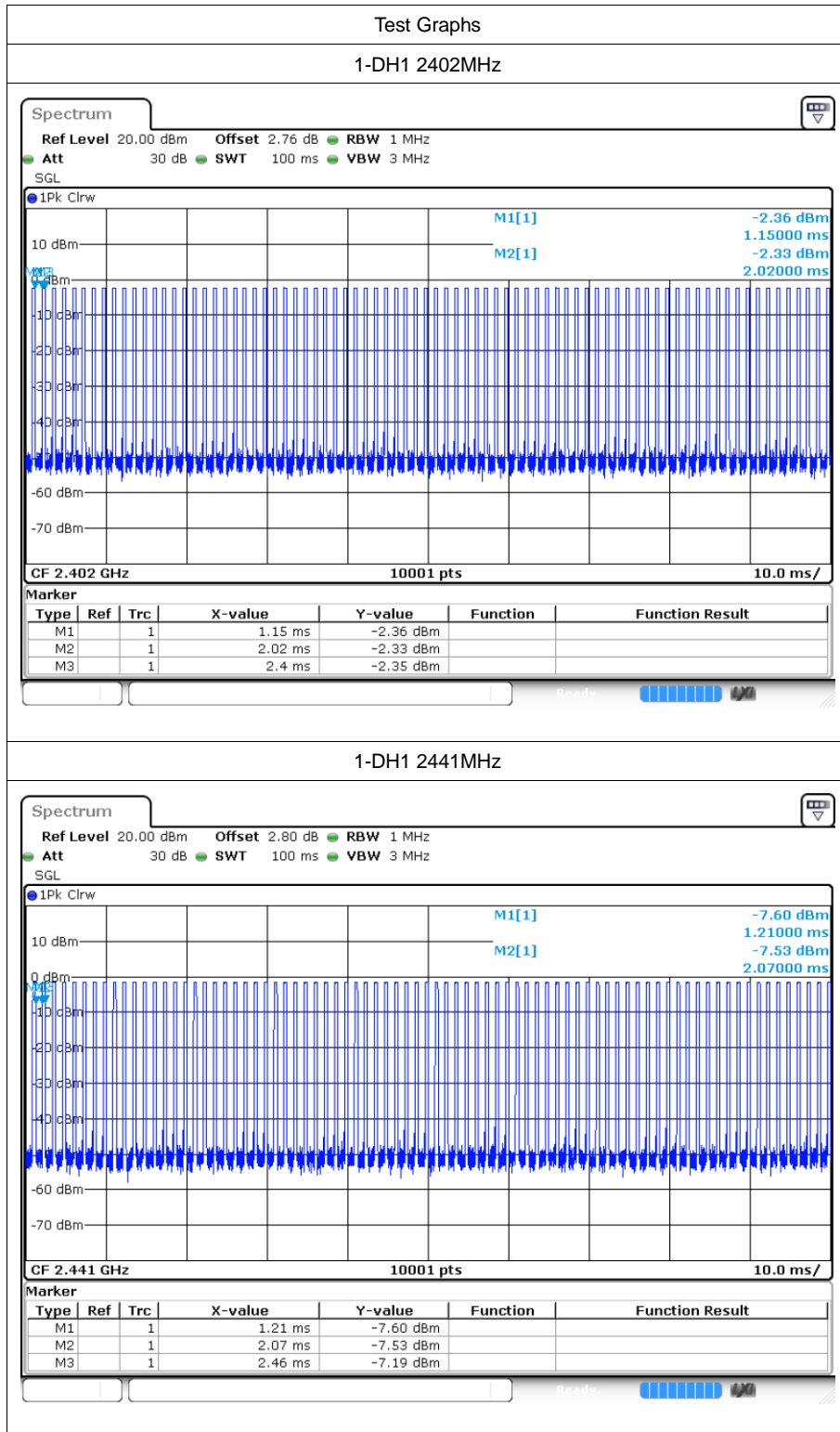
1	Duty Cycle.....	3
1.1	Test Result	3
1.2	Test Graphs.....	4
2	Maximum Conducted Peak Output Power	9
2.1	Test Result	9
2.2	Test Graphs.....	10
3	20dB Bandwidth.....	15
3.1	Test Result	15
3.2	Test Graphs.....	16
4	Carrier Frequency Separation	21
4.1	Test Result	21
4.2	Test Graphs.....	22
5	Hopping Channel Number.....	24
5.1	Test Result	24
5.2	Test Graphs.....	25
6	Dwell Time	27
6.1	Test Result	27
6.2	Test Graphs.....	28
7	RF Conducted Spurious Emissions	31
7.1	Test Result	31
7.2	Test Graphs.....	32
8	Band-edge for RF Conducted Emissions.....	41
8.1	Test Result	41
8.2	Test Graphs.....	42

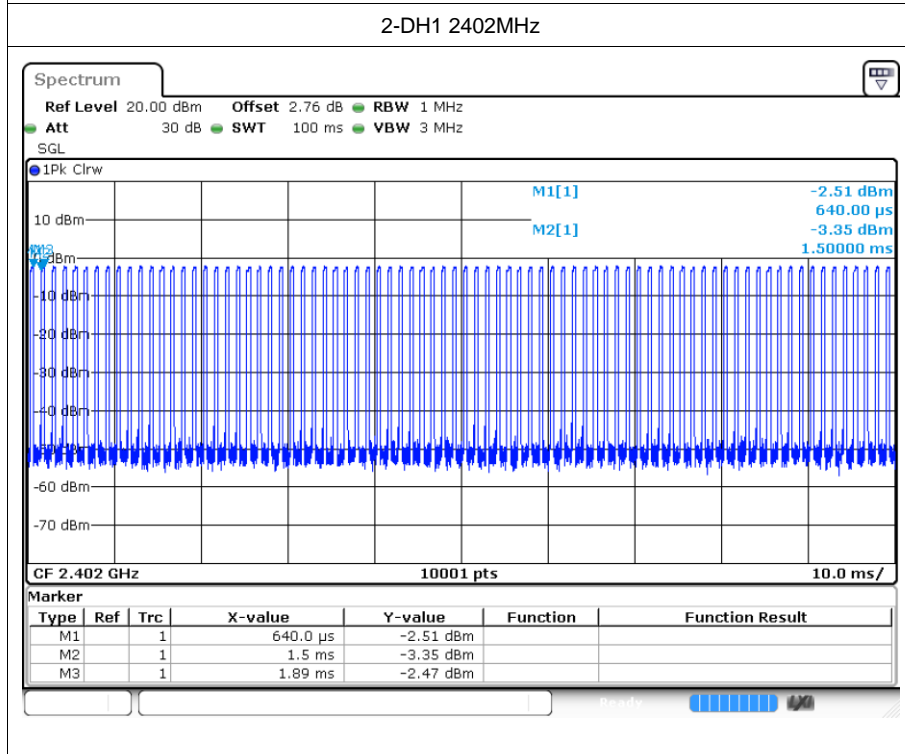
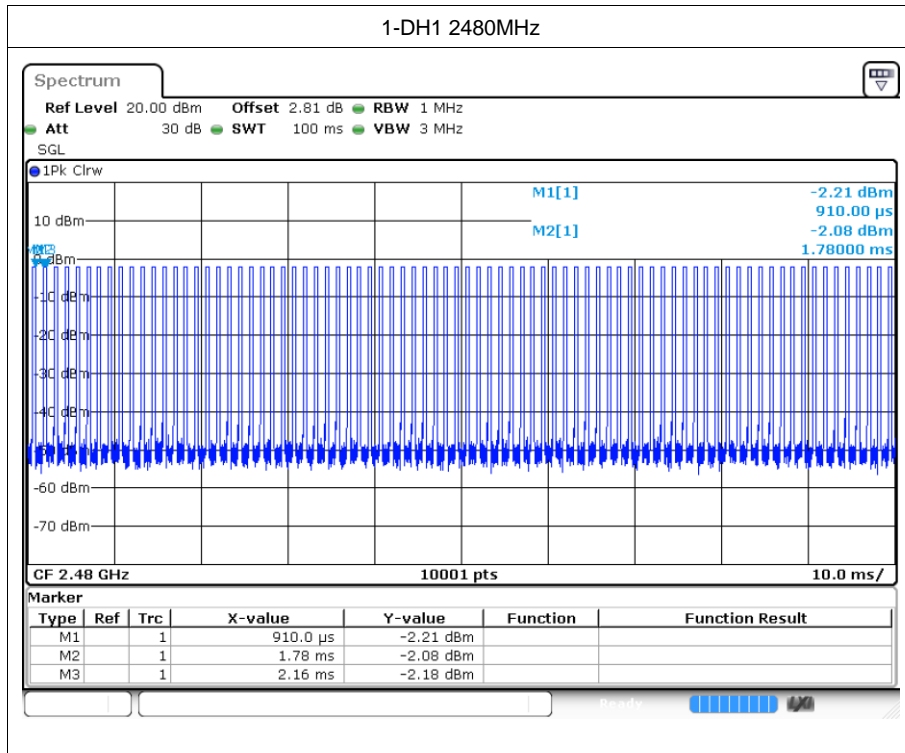
1 Duty Cycle

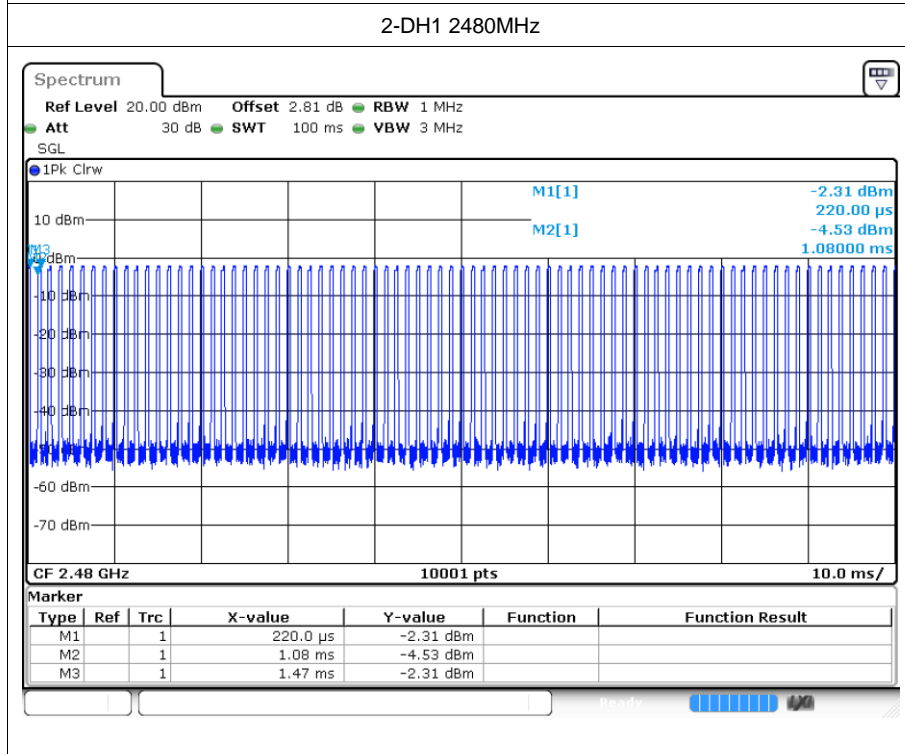
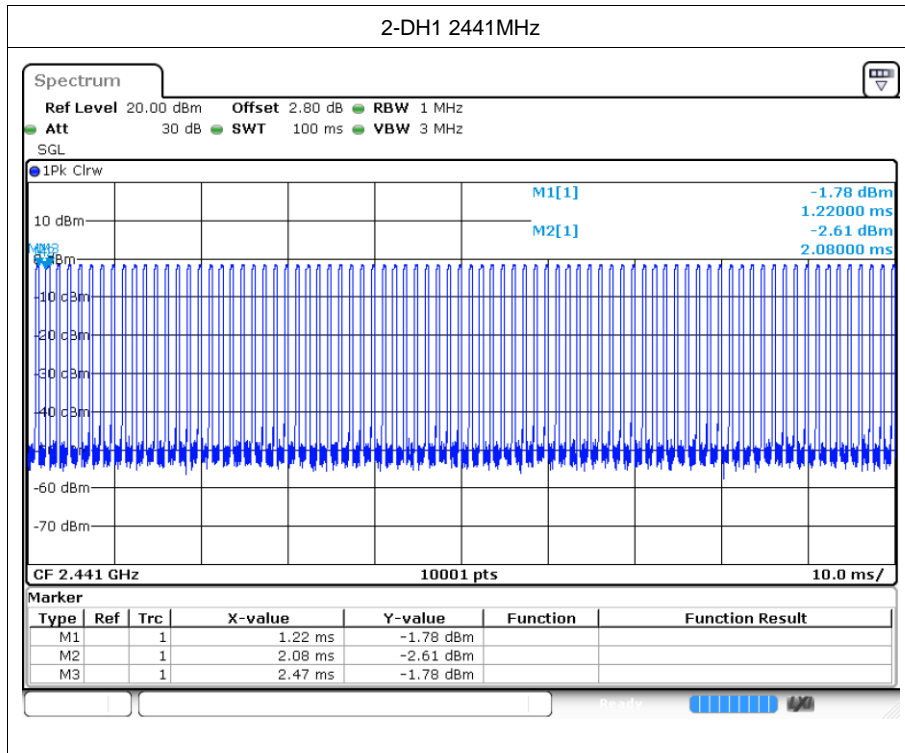
1.1 Test Result

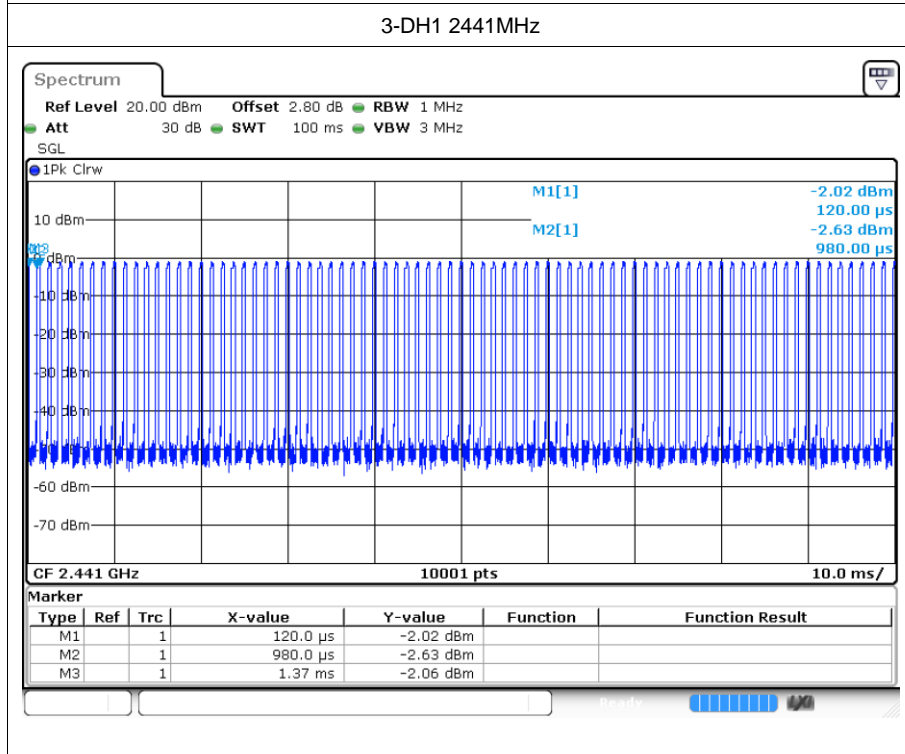
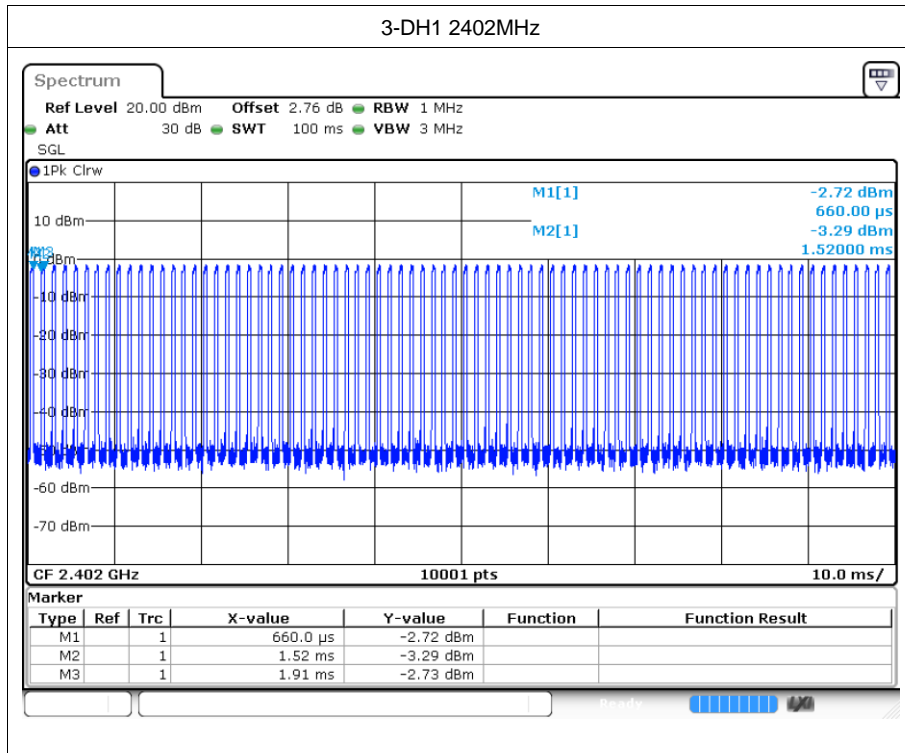
Mode	Frequency (MHz)	Duty Cycle (%)	Correction Factor	1/T (kHz)
1-DH1	2402	31.2	5.06	2.63
1-DH1	2441	31.59	5	2.56
1-DH1	2480	31.2	5.06	2.63
2-DH1	2402	32	4.95	2.56
2-DH1	2441	32	4.95	2.56
2-DH1	2480	31.87	4.97	2.56
3-DH1	2402	32	4.95	2.56
3-DH1	2441	32.01	4.95	2.56
3-DH1	2480	32	4.95	2.56

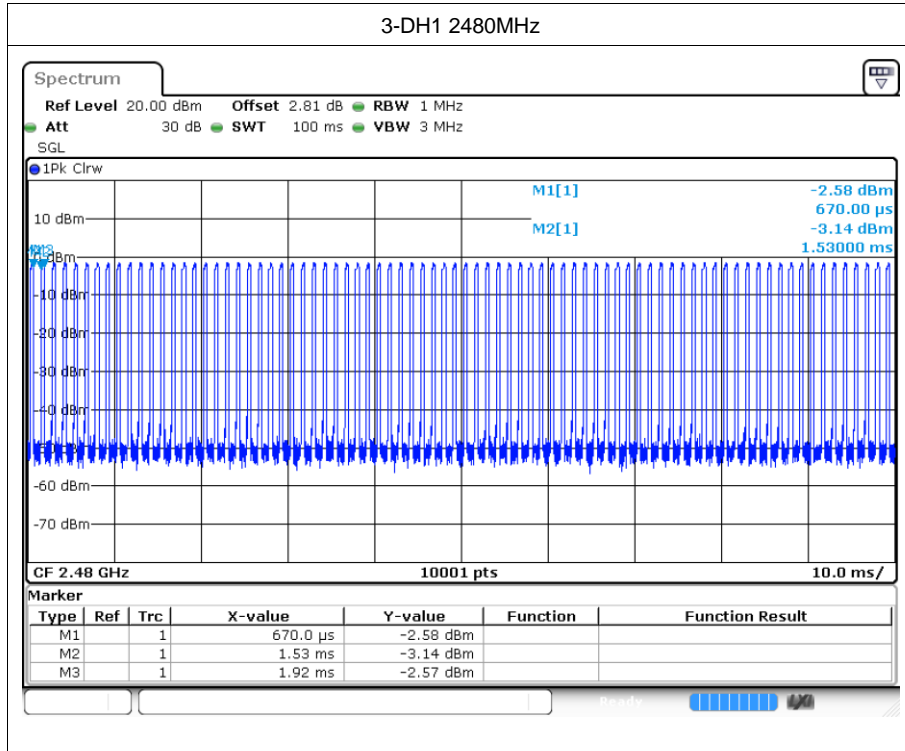
1.2 Test Graphs









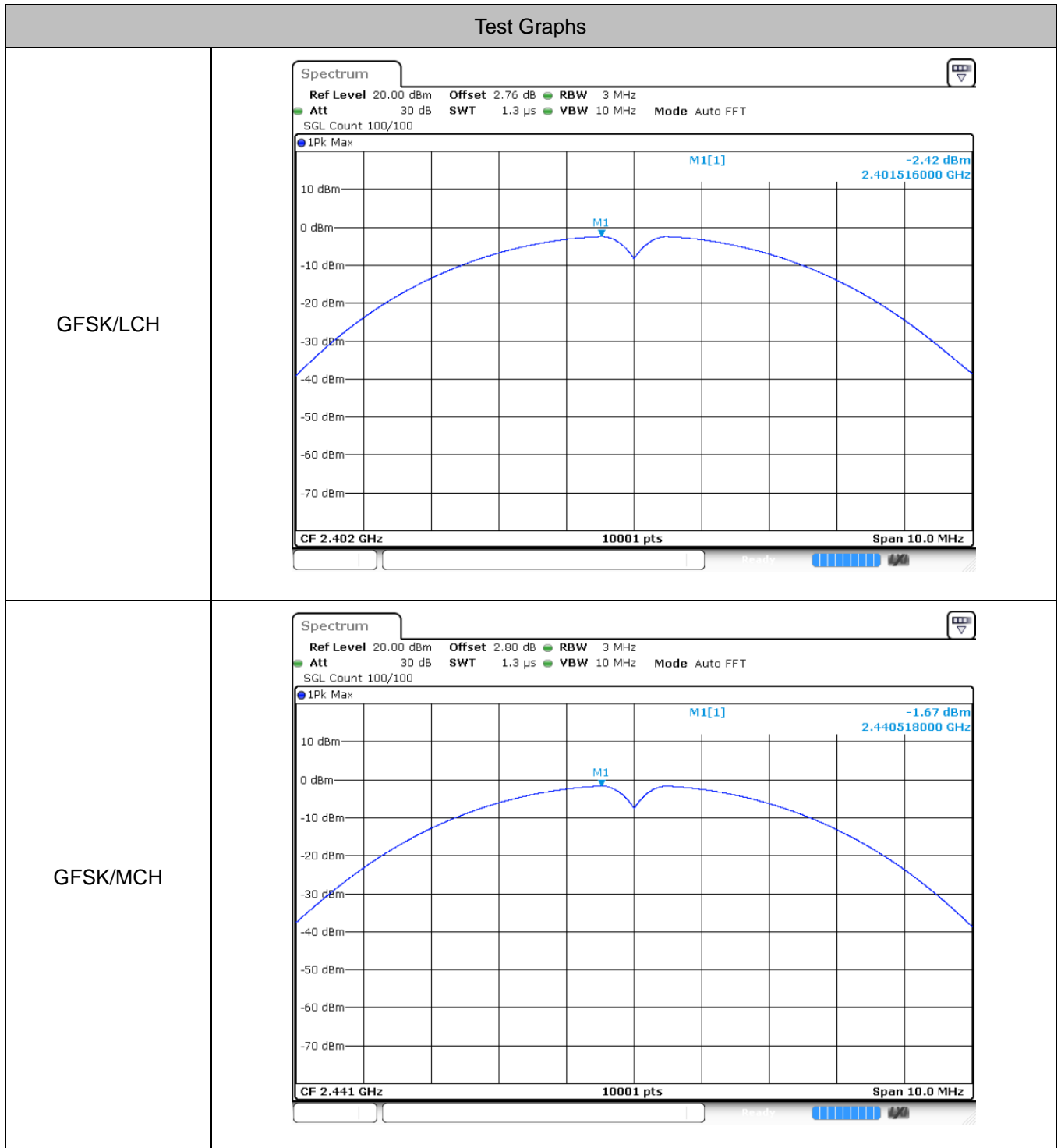


2 Maximum Conducted Peak Output Power

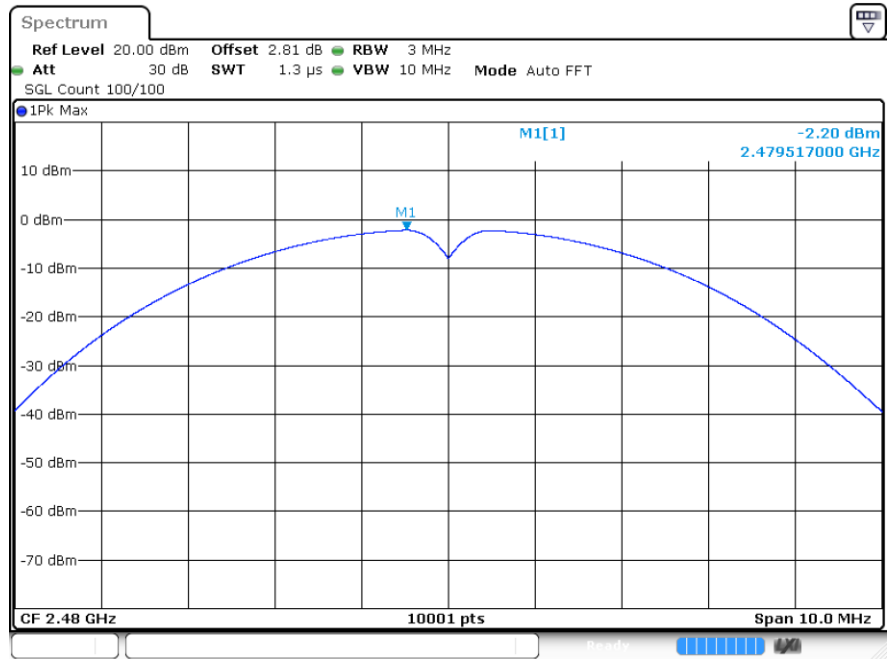
2.1 Test Result

Mode	Channel.	Maximum Peak Output Power [dBm]	Limit [dBm]	Verdict
GFSK	LCH	-2.42	21	Pass
	MCH	-1.67	21	Pass
	HCH	-2.2	21	Pass
$\pi/4$ DQPSK	LCH	-1.23	21	Pass
	MCH	-0.56	21	Pass
	HCH	-1.15	21	Pass
8DPSK	LCH	-1.1	21	Pass
	MCH	-0.46	21	Pass
	HCH	-1.24	21	Pass

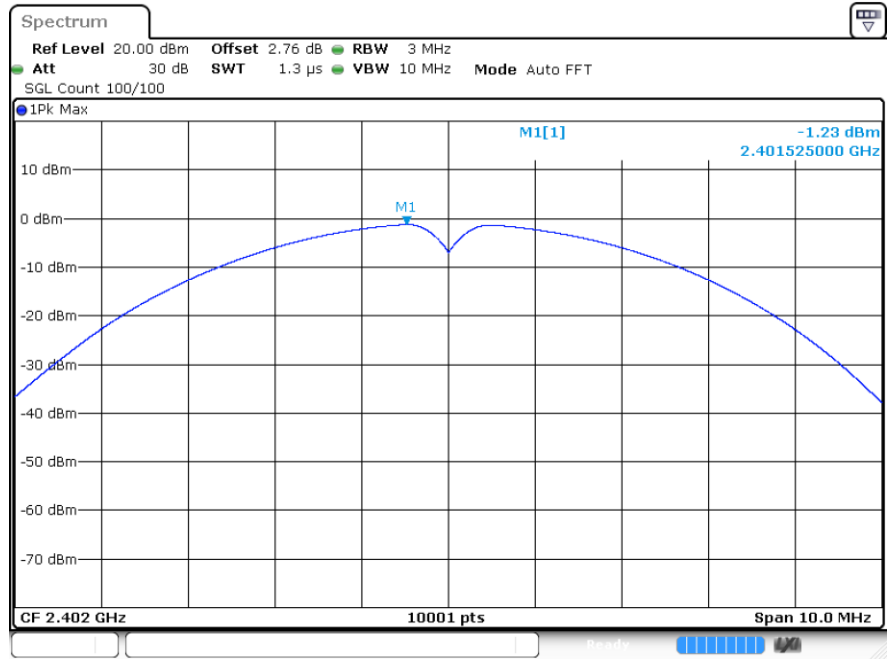
2.2 Test Graphs



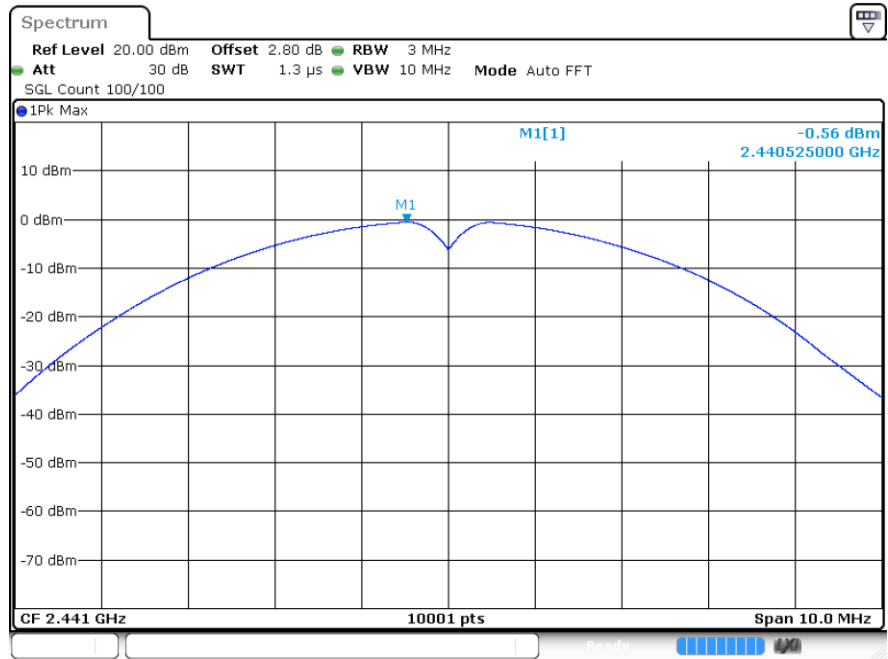
GFSK/HCH



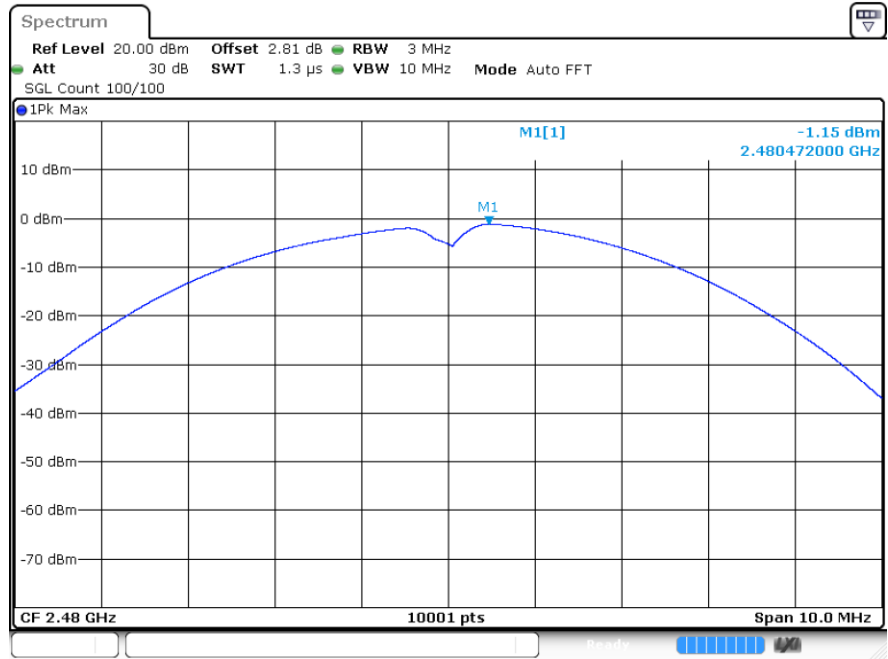
π /4DQPSK/LCH



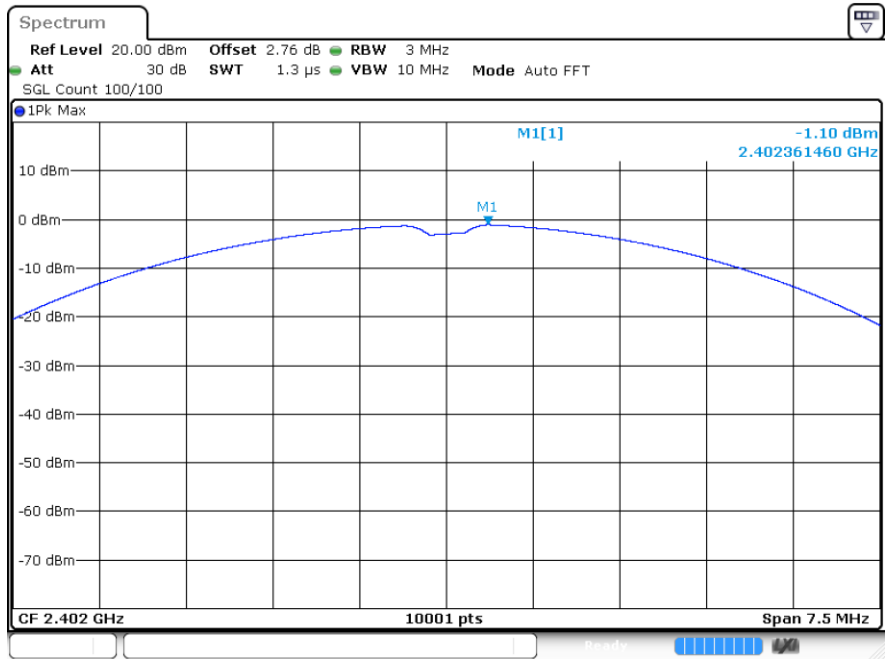
$\pi/4$ DQPSK/MCH



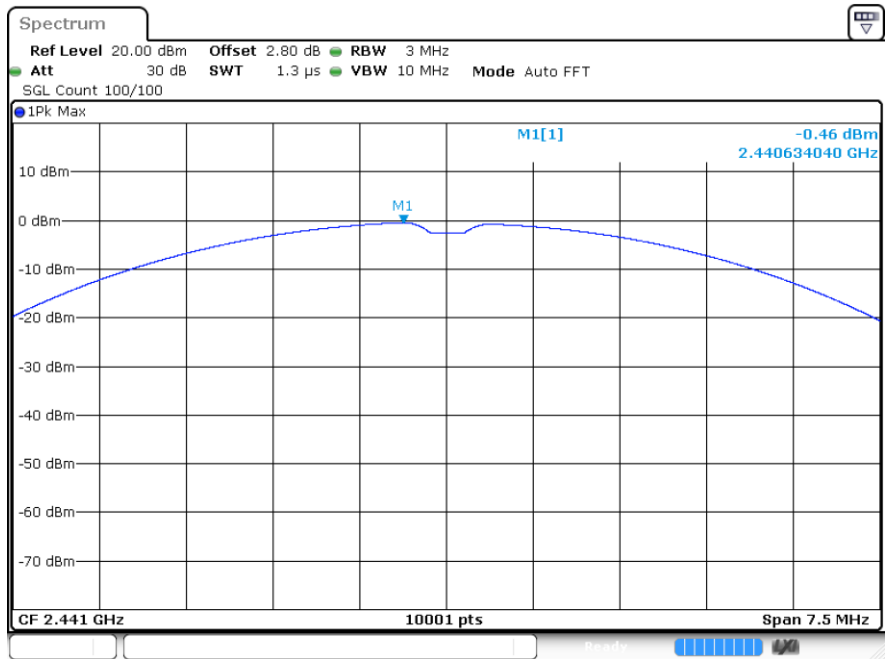
$\pi/4$ DQPSK/HCH



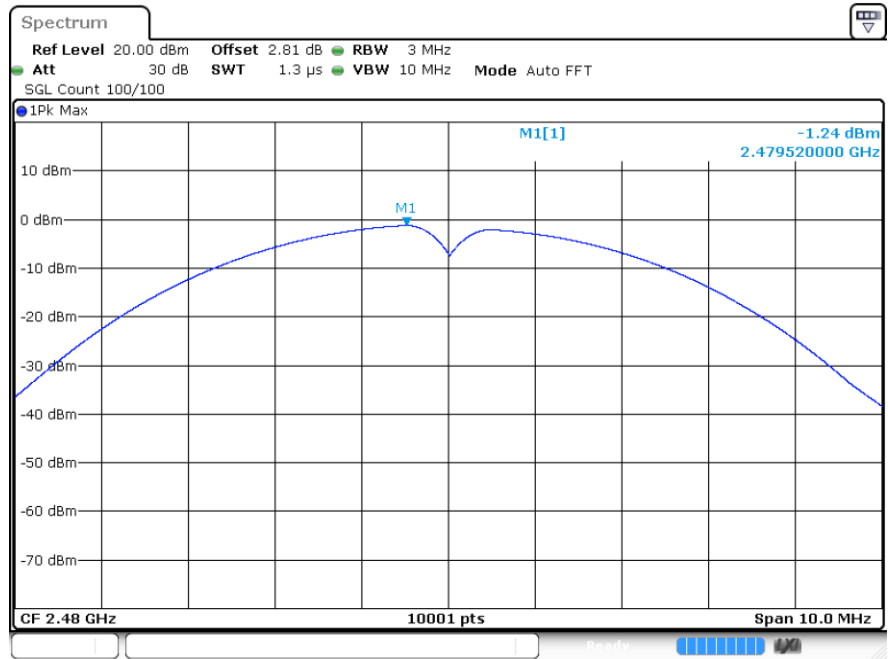
8DPSK/LCH



8DPSK/MCH



8DPSK/HCH

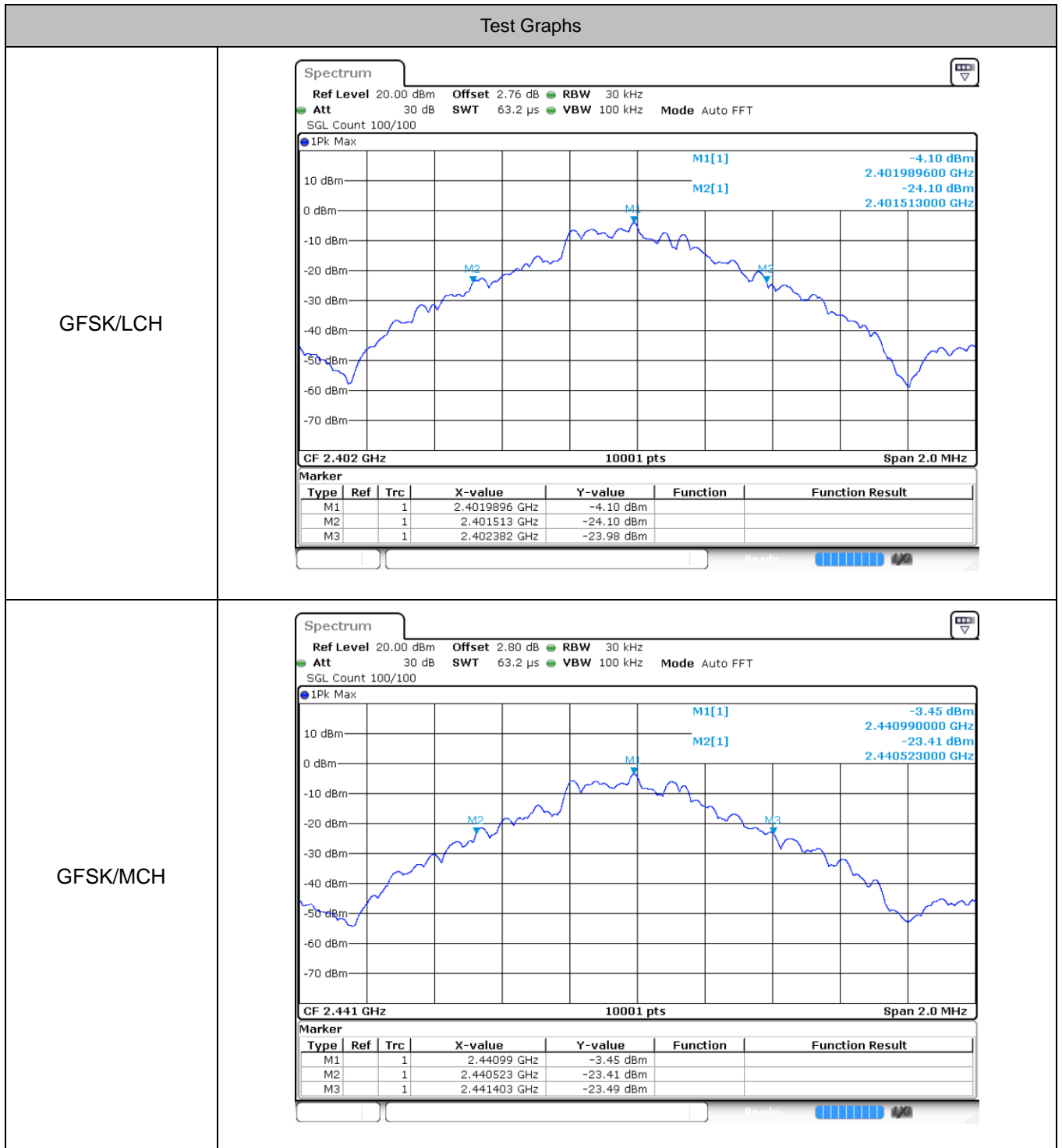


3 20dB Bandwidth

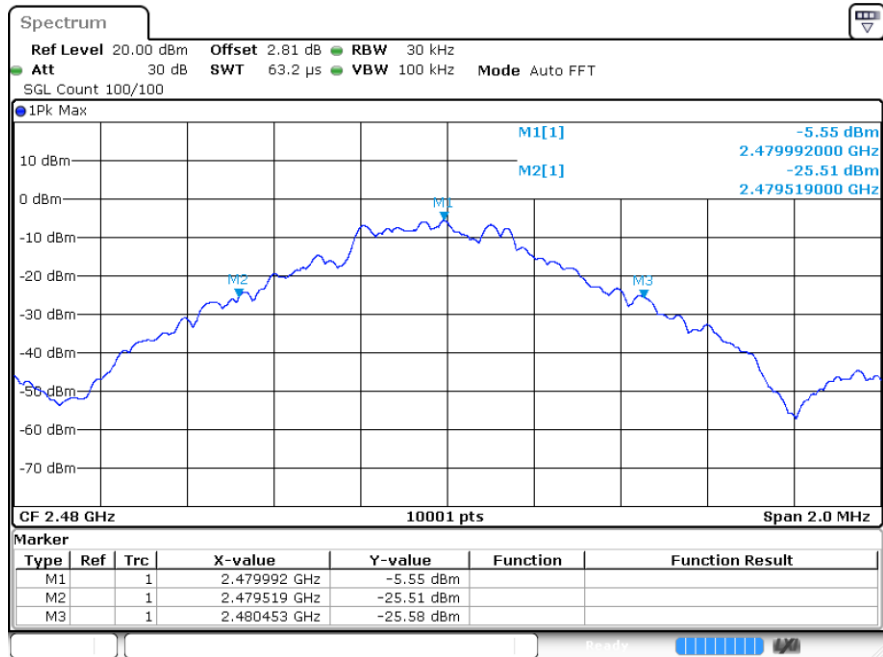
3.1 Test Result

Mode	Channel.	20dB Bandwidth [MHz]	Limit [MHz]	Verdict
GFSK	LCH	0.869	Not Specified	Pass
	MCH	0.880	Not Specified	Pass
	HCH	0.934	Not Specified	Pass
$\pi/4$ DQPSK	LCH	1.424	Not Specified	Pass
	MCH	1.421	Not Specified	Pass
	HCH	1.461	Not Specified	Pass
8DPSK	LCH	1.436	Not Specified	Pass
	MCH	1.424	Not Specified	Pass
	HCH	1.439	Not Specified	Pass

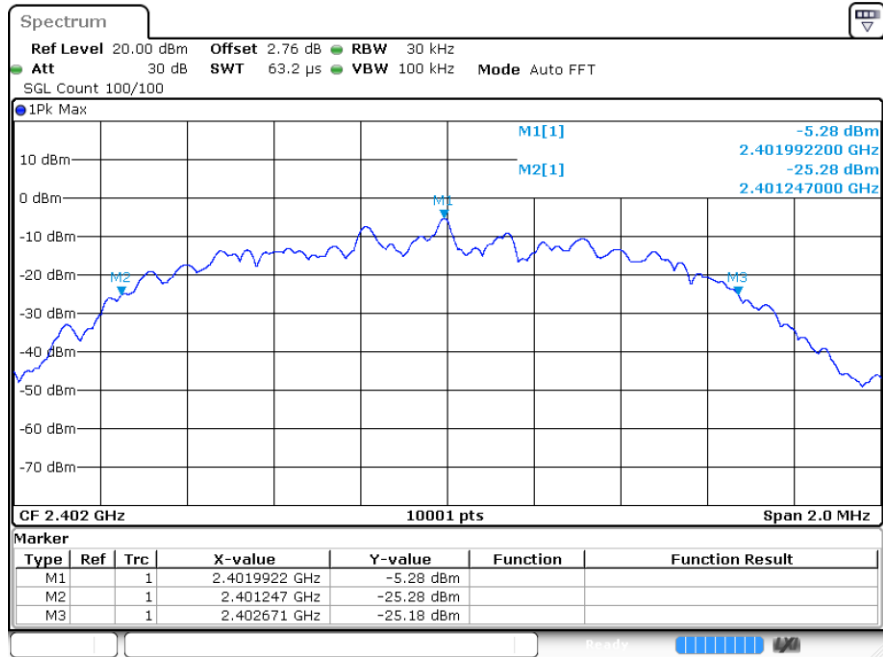
3.2 Test Graphs



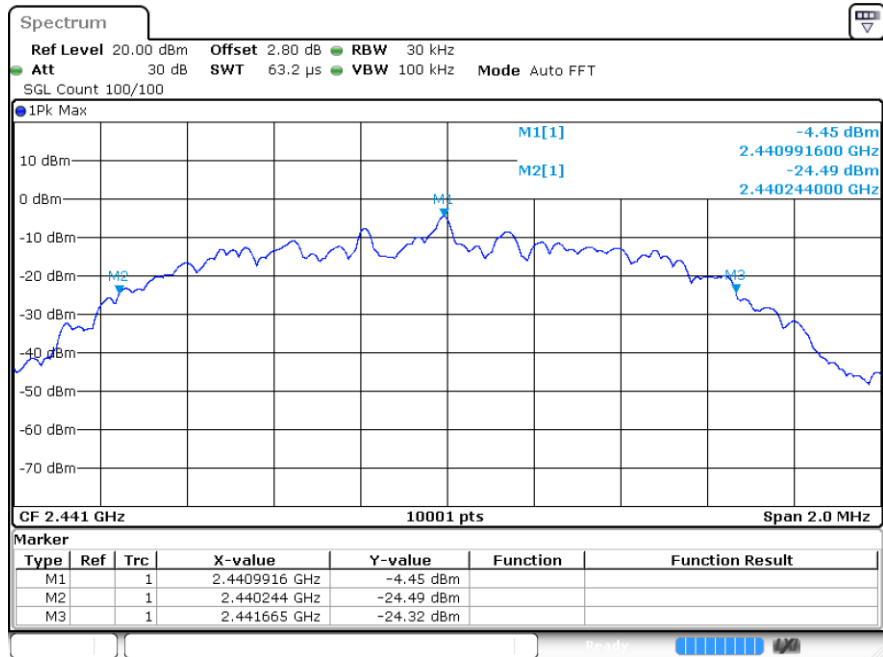
GFSK/HCH



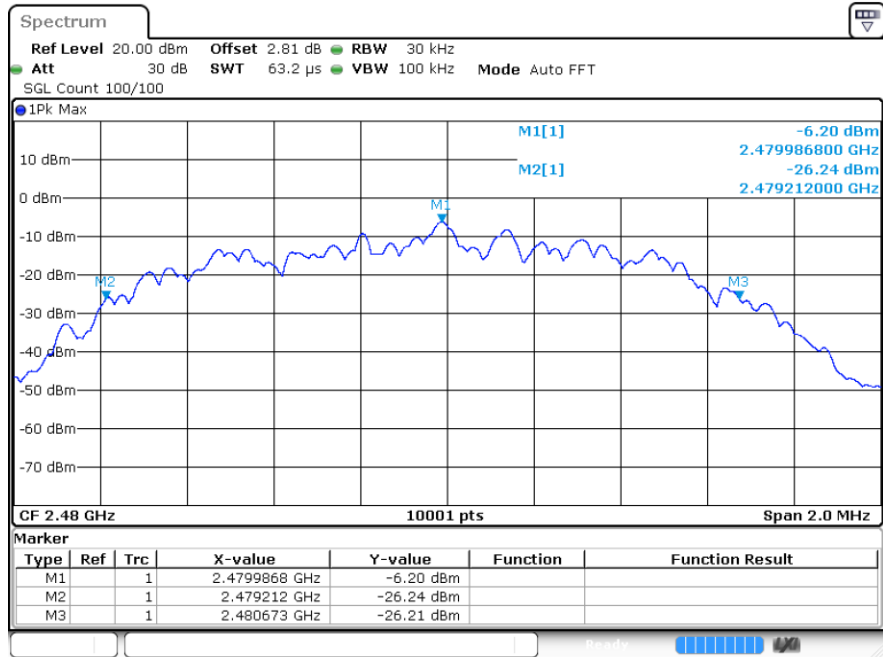
$\pi/4$ DQPSK/LCH



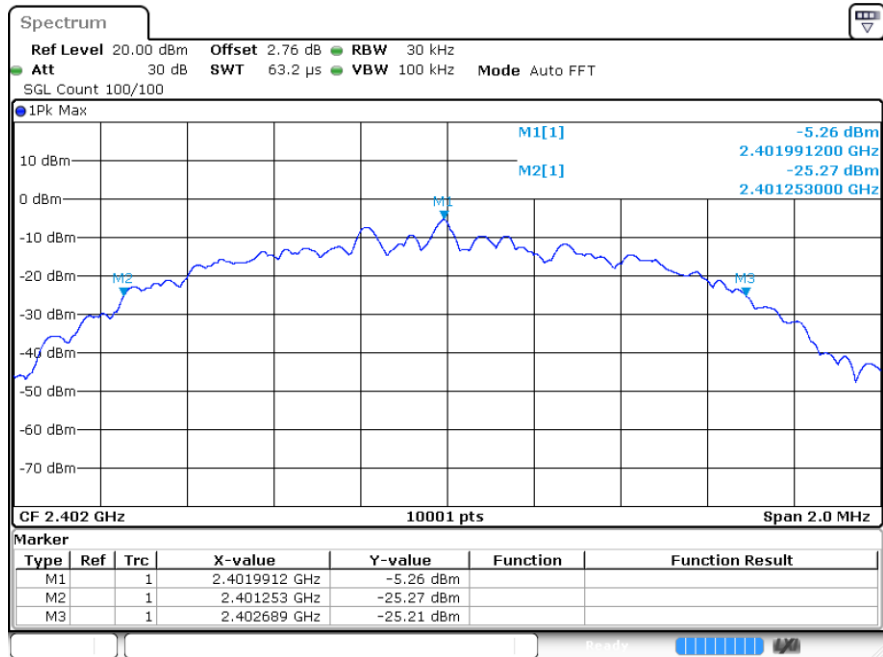
$\pi/4$ DQPSK/MCH



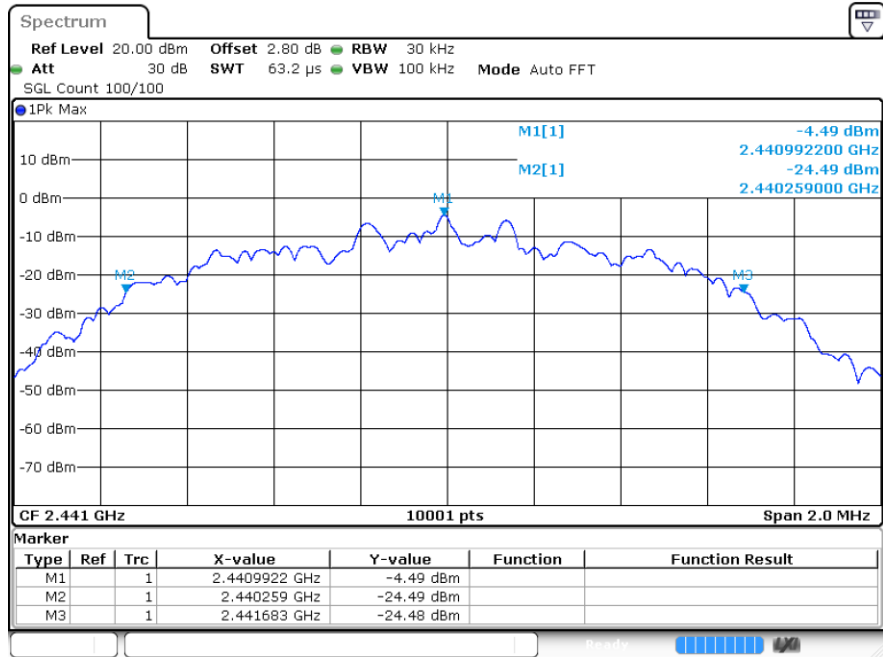
$\pi/4$ DQPSK/HCH



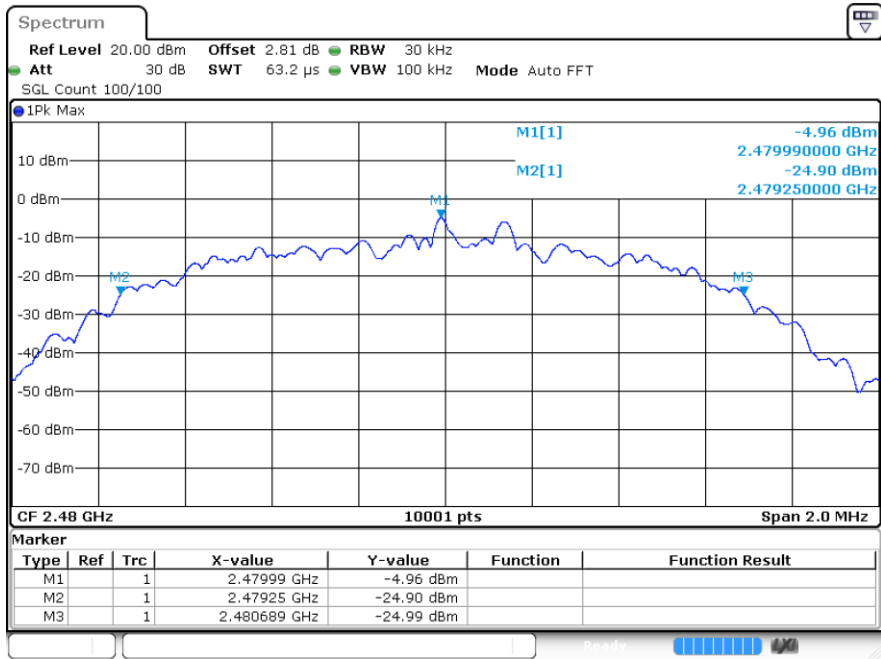
8DPSK/LCH



8DPSK/MCH



8DPSK/HCH

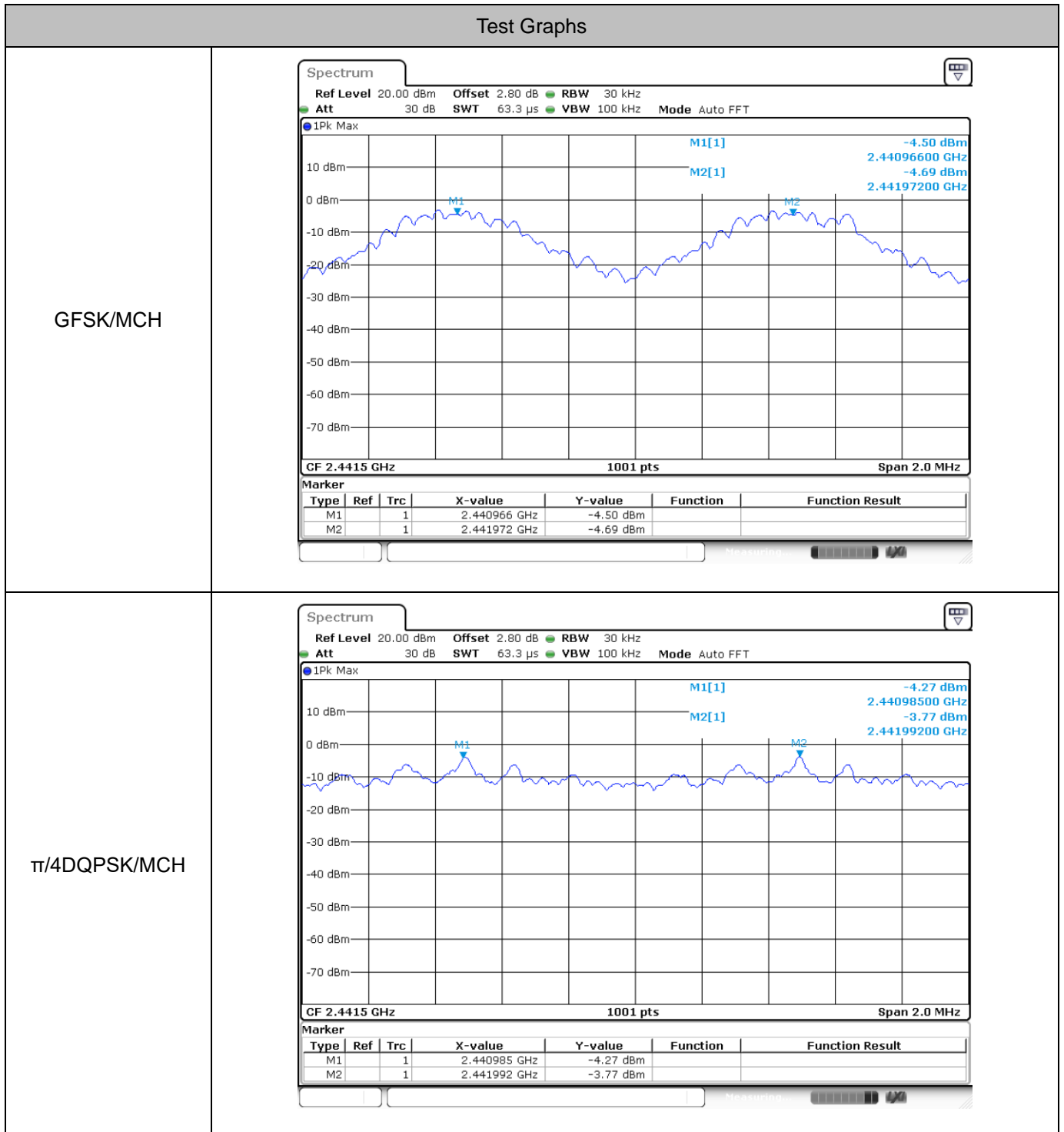


4 Carrier Frequency Separation

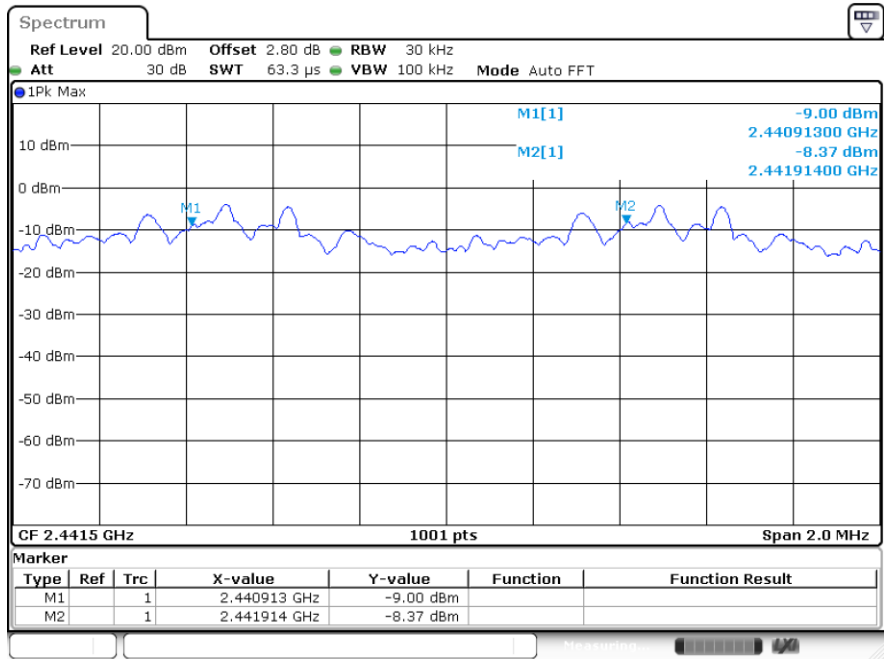
4.1 Test Result

Mode	Channel.	Carrier Frequency Separation [MHz]	Limit [MHz]	Verdict
GFSK	MCH	1.006	0.587	Pass
$\pi/4$ DQPSK	MCH	1.007	0.947	Pass
8DPSK	MCH	1.001	0.949	Pass

4.2 Test Graphs



8DPSK/MCH

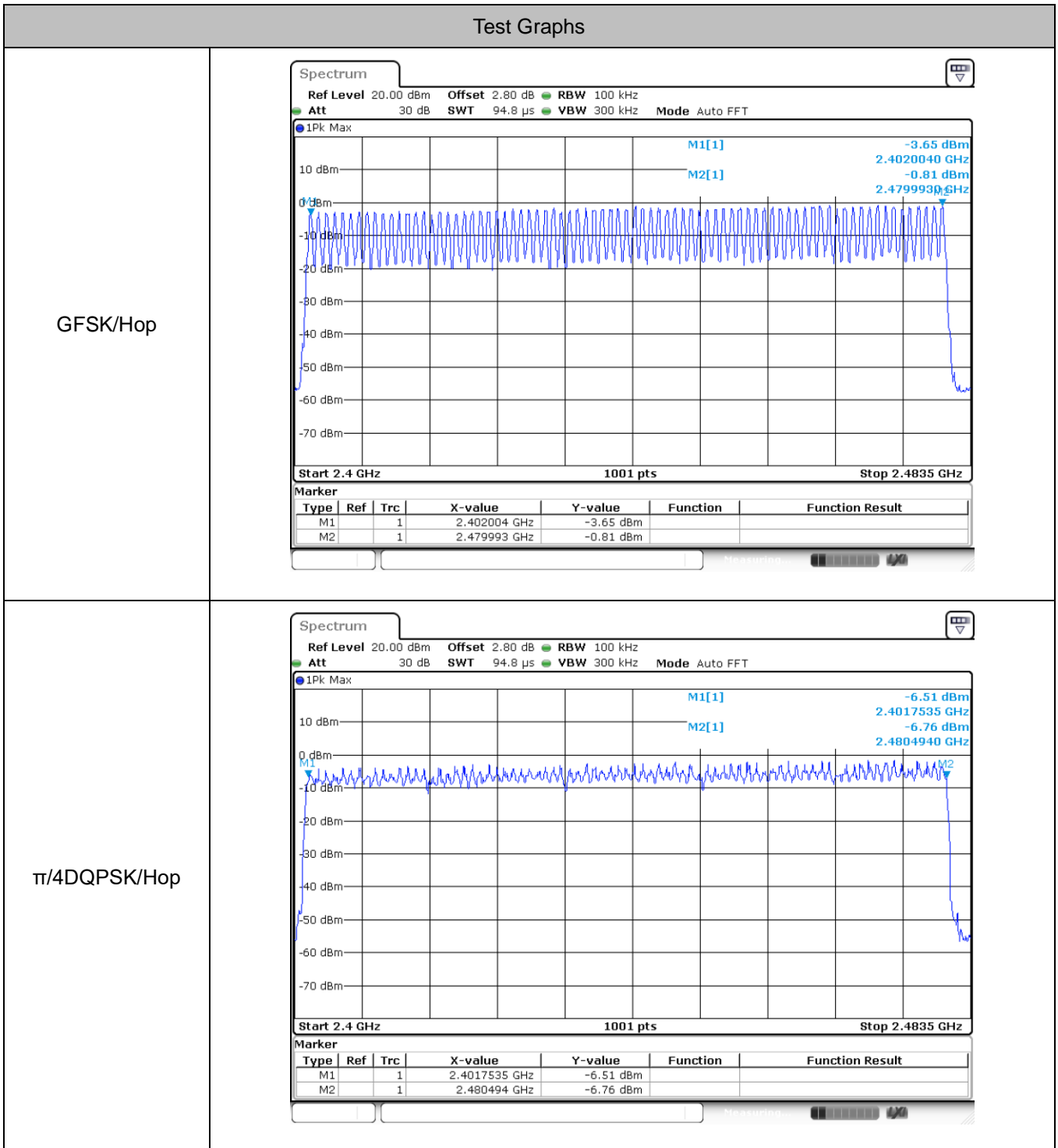


5 Hopping Channel Number

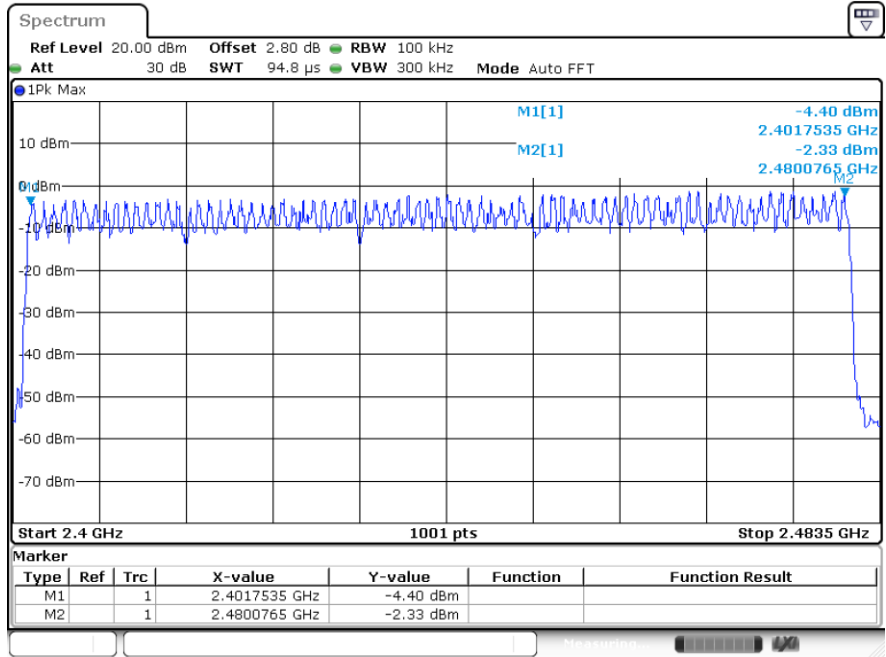
5.1 Test Result

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

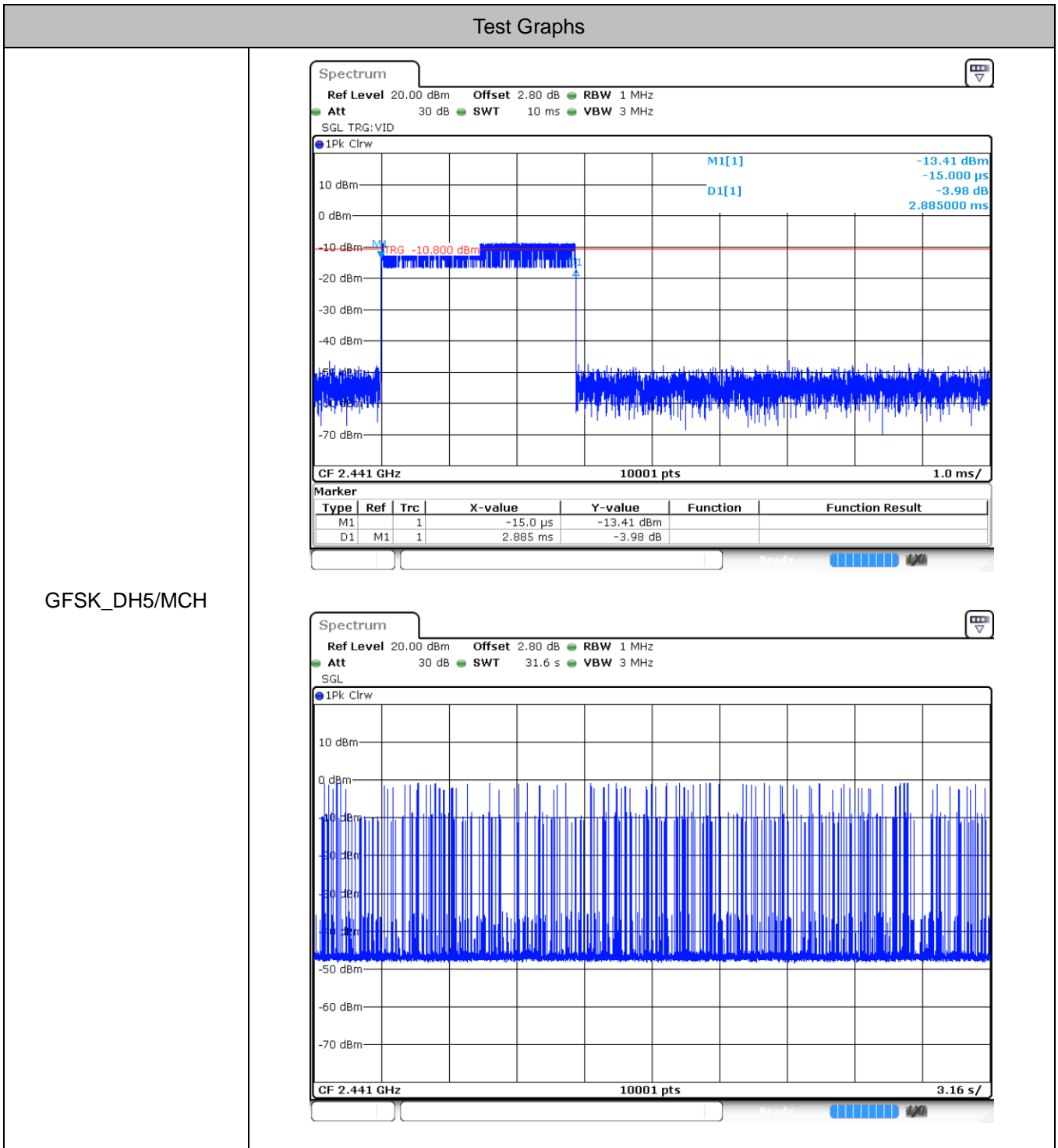


6 Dwell Time

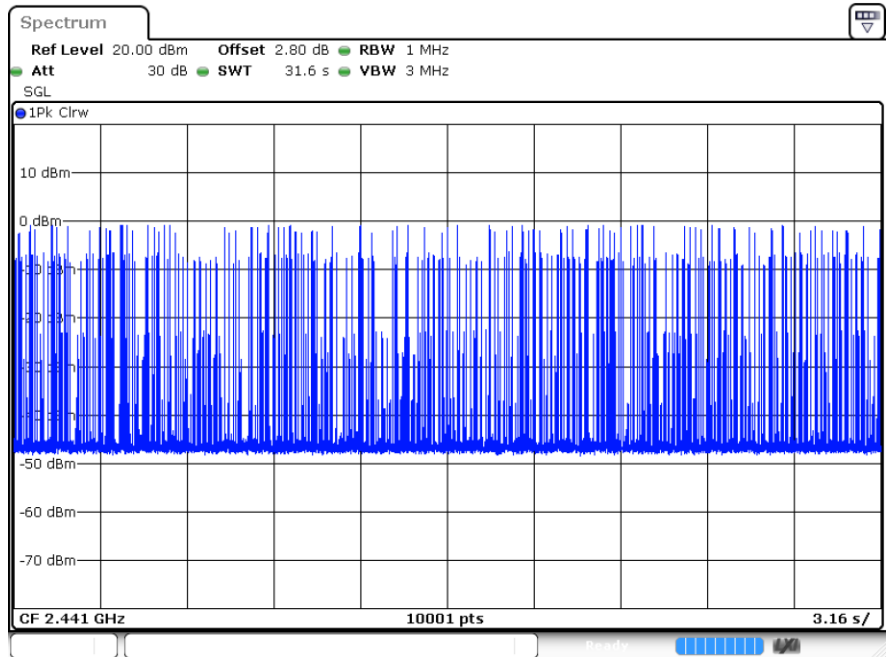
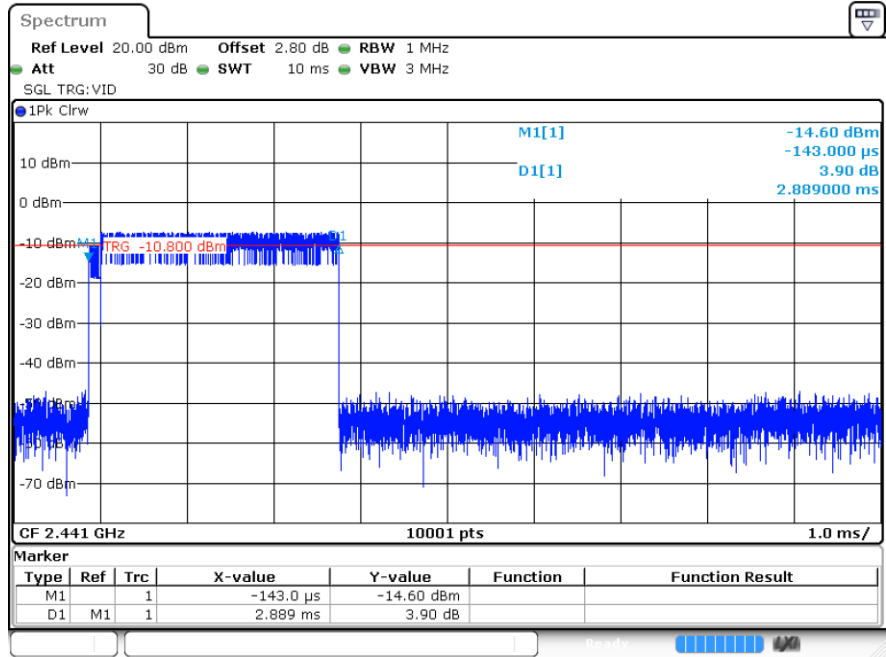
6.1 Test Result

Mode	Packet	Channel	Burst Width [ms/hop/ch]	Total Hops[hop*ch]	Dwell Time[ms]	Limit [s]	Verdict
GFSK	DH5	MCH	2.885	100	288.5	0.4	Pass
$\pi/4$ DQPSK	2DH5	MCH	2.889	103	297.567	0.4	Pass
8DPSK	3DH5	MCH	2.891	99	286.209	0.4	Pass

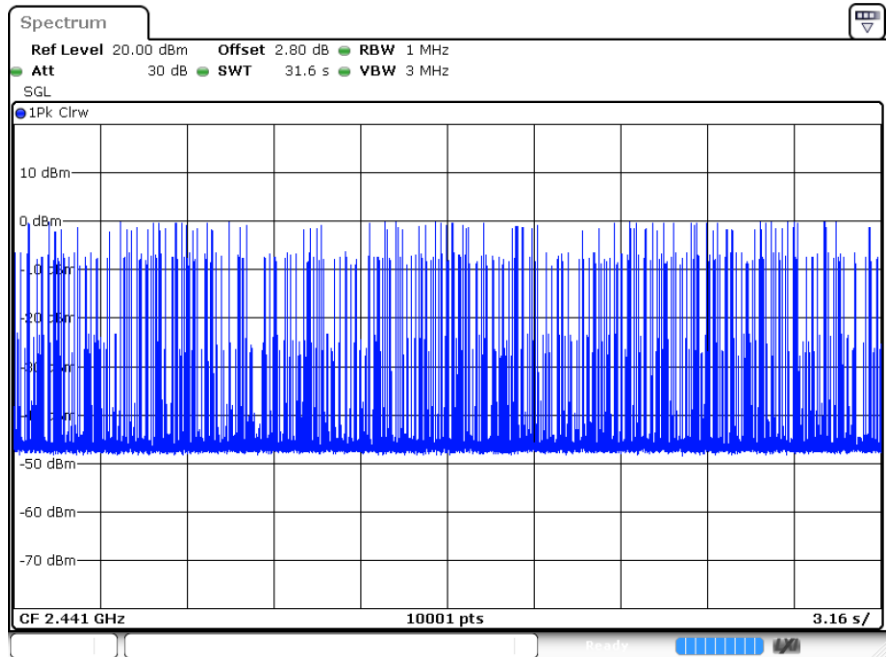
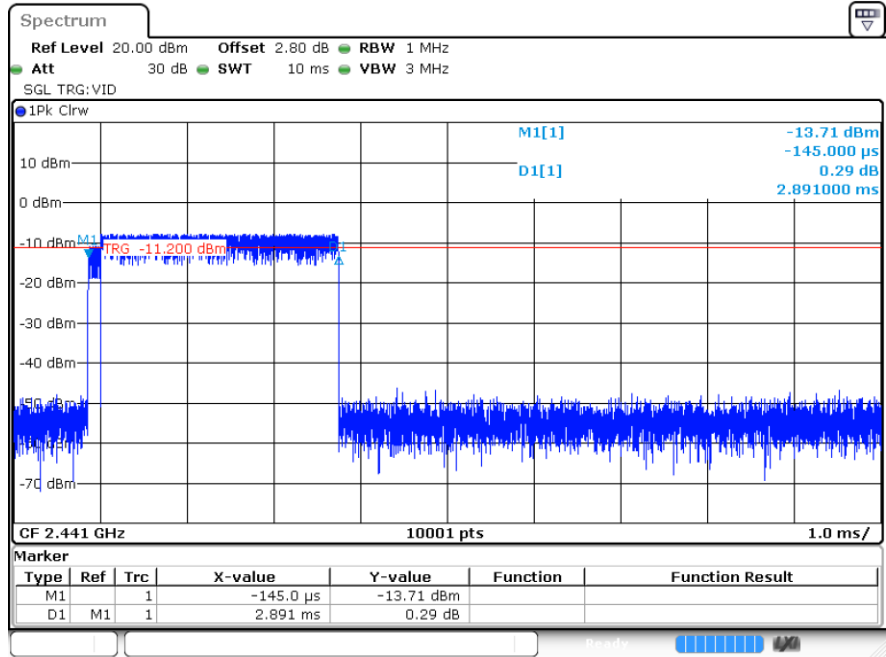
6.2 Test Graphs



$\pi/4$ DQPSK
 _2DH5/MCH



8DPSK_3DH5/MCH

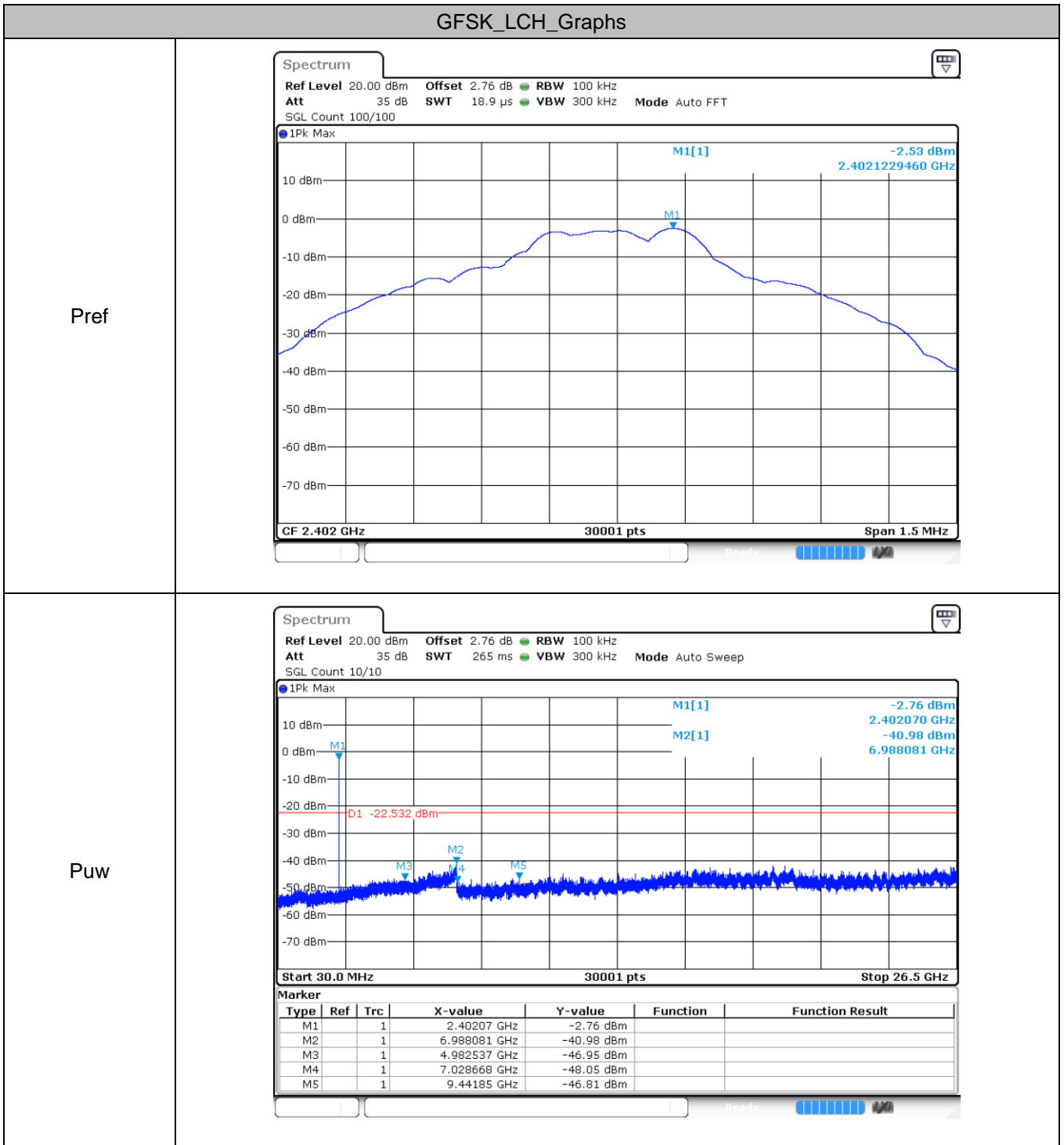


7 RF Conducted Spurious Emissions

7.1 Test Result

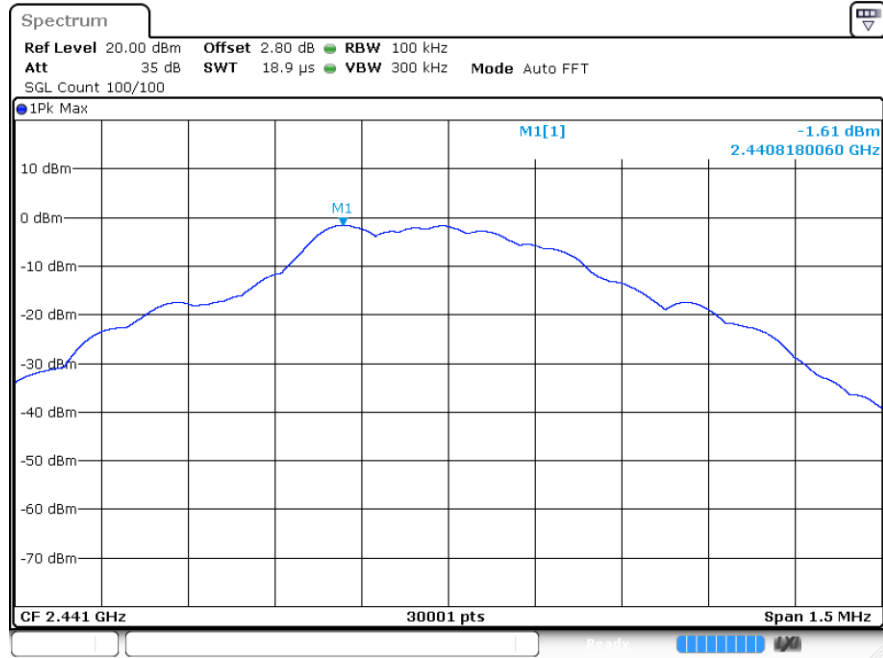
Mode	Channel	Max. Level [dBc]	Limit [dBc]	Verdict
GFSK	LCH	-38.45	-20	Pass
	MCH	-40.01	-20	Pass
	HCH	-39.78	-20	Pass
$\pi/4$ DQPSK	LCH	-37.78	-20	Pass
	MCH	-38.35	-20	Pass
	HCH	-36.93	-20	Pass
8DPSK	LCH	-37.9	-20	Pass
	MCH	-39.27	-20	Pass
	HCH	-38.51	-20	Pass

7.2 Test Graphs

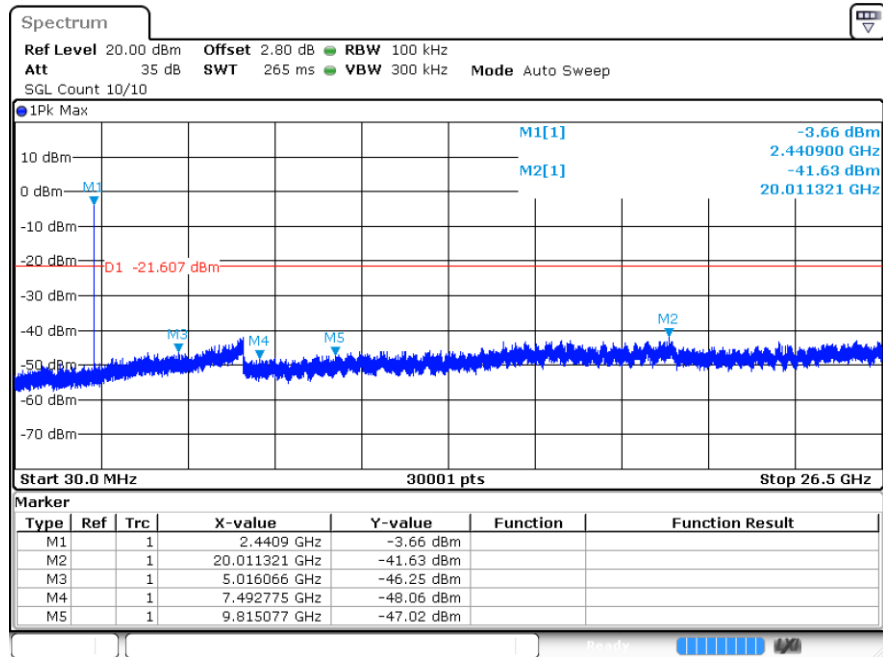


GFSK_MCH_Graphs

Pref

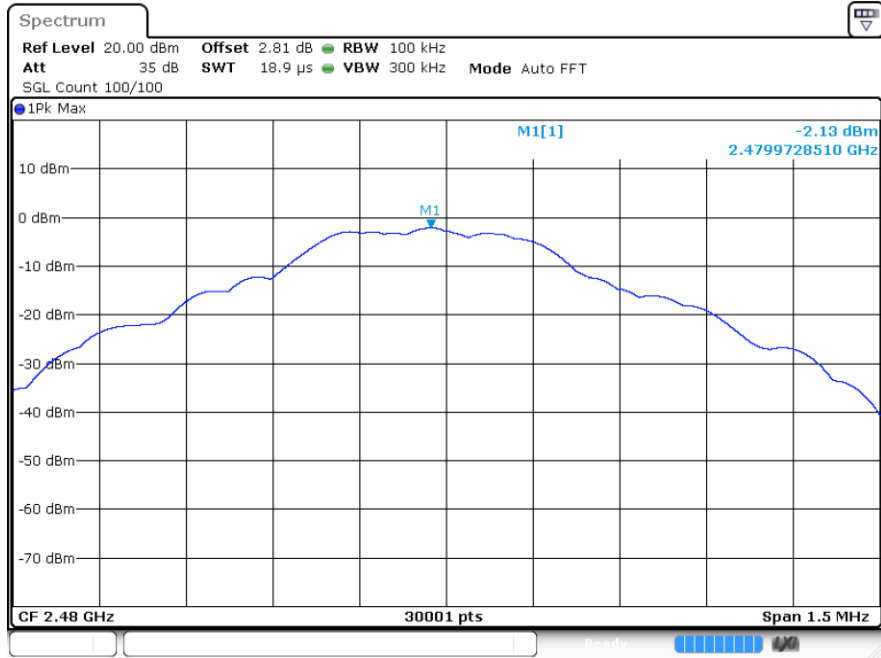


Puw

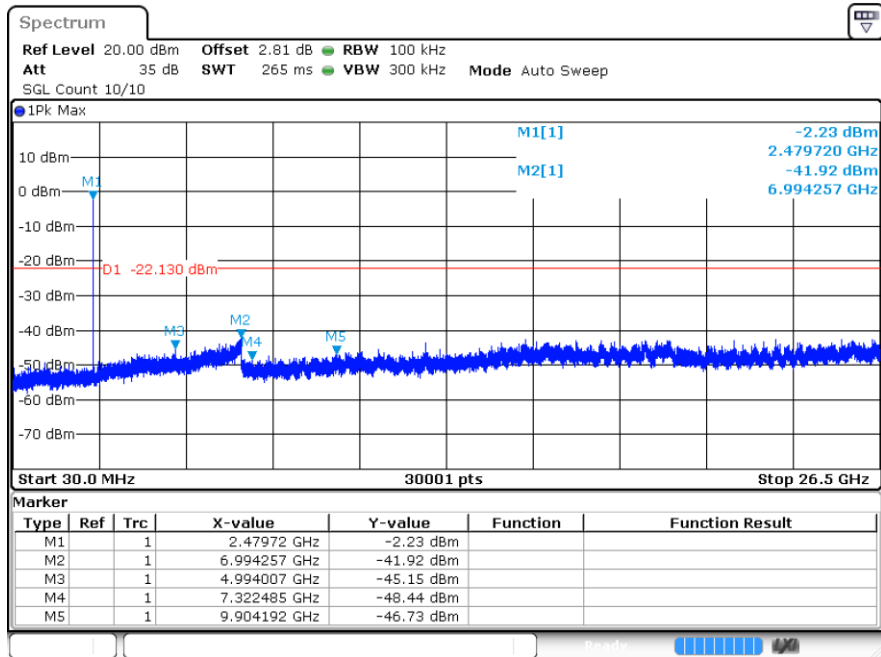


GFSK_HCH_Graphs

Pref

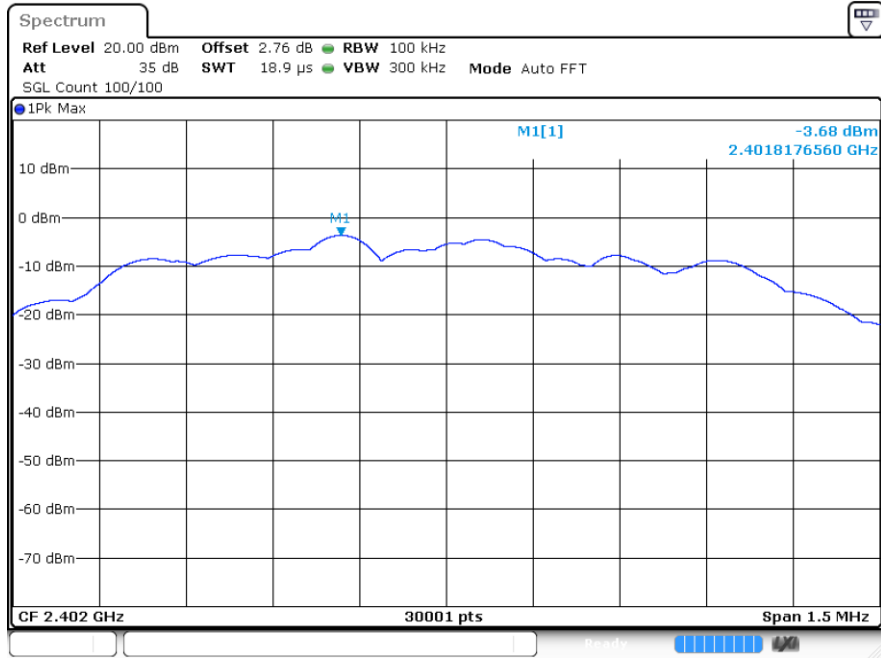


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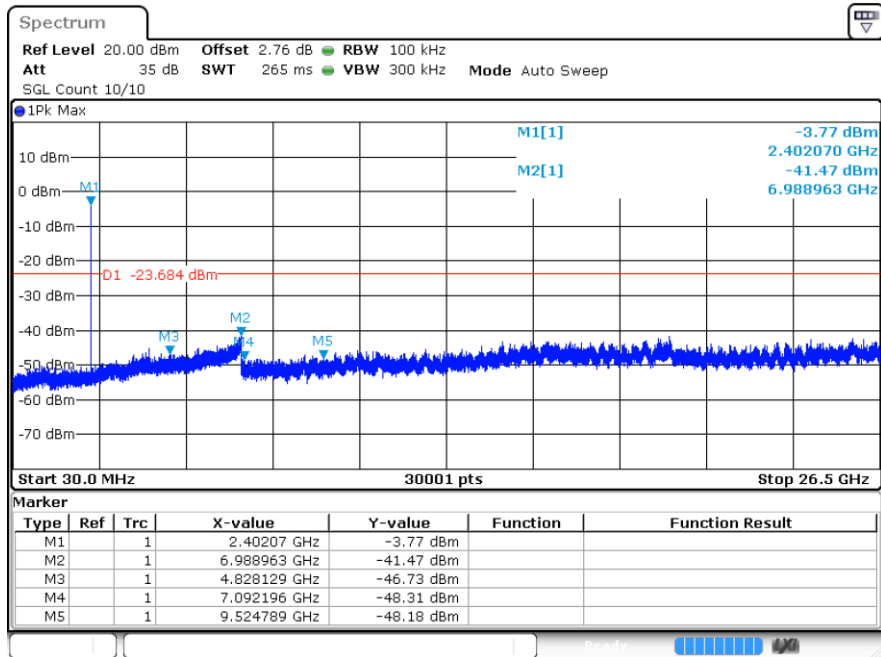


$\pi/4$ DQPSK_LCH_Graphs

Pref

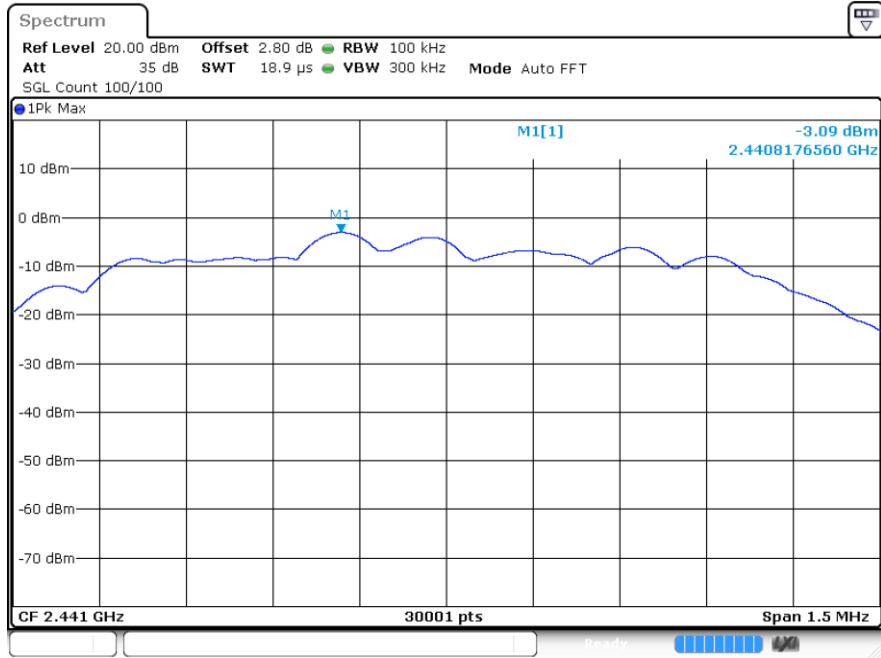


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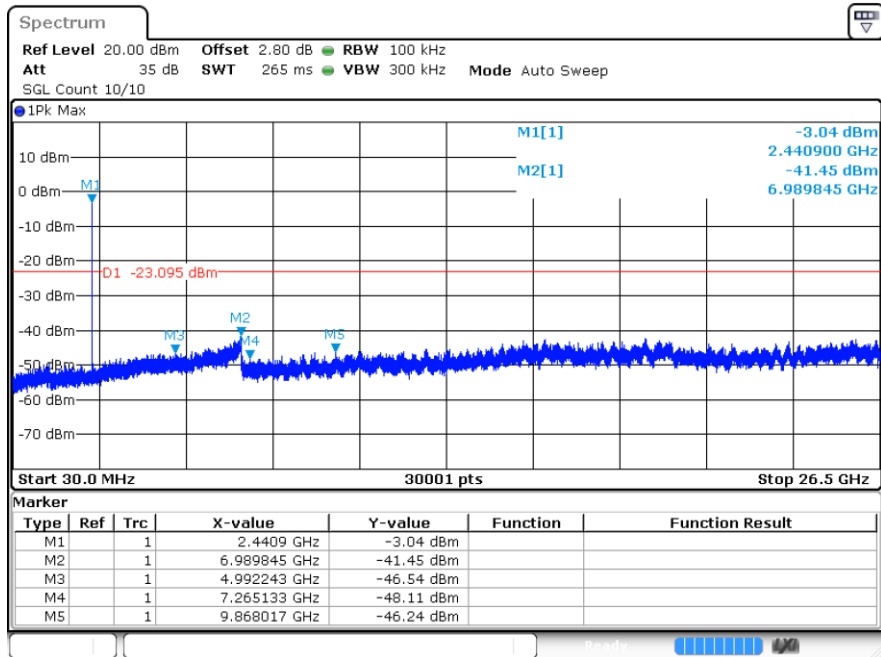


π /4DQPSK_MCH_Graphs

Pref

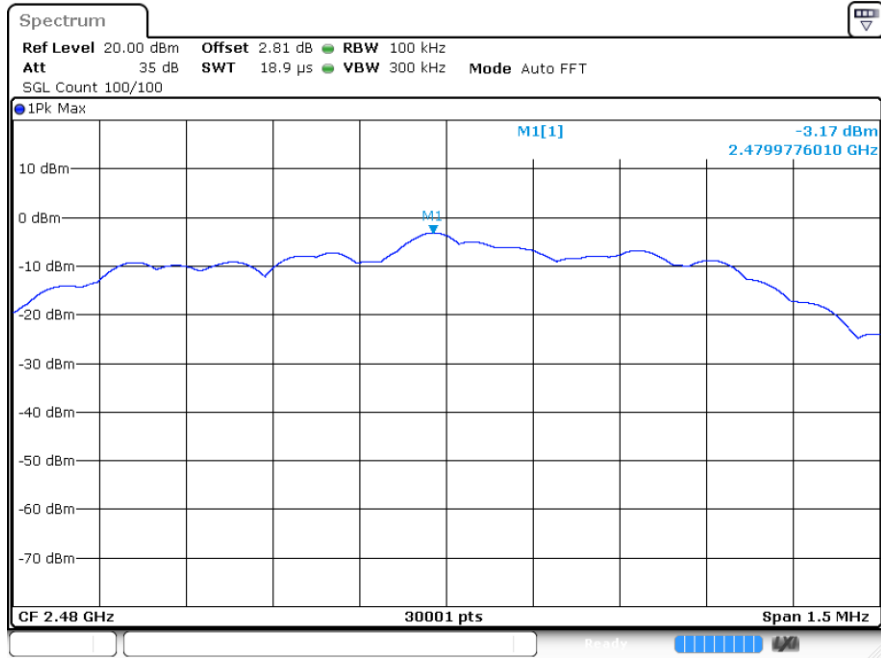


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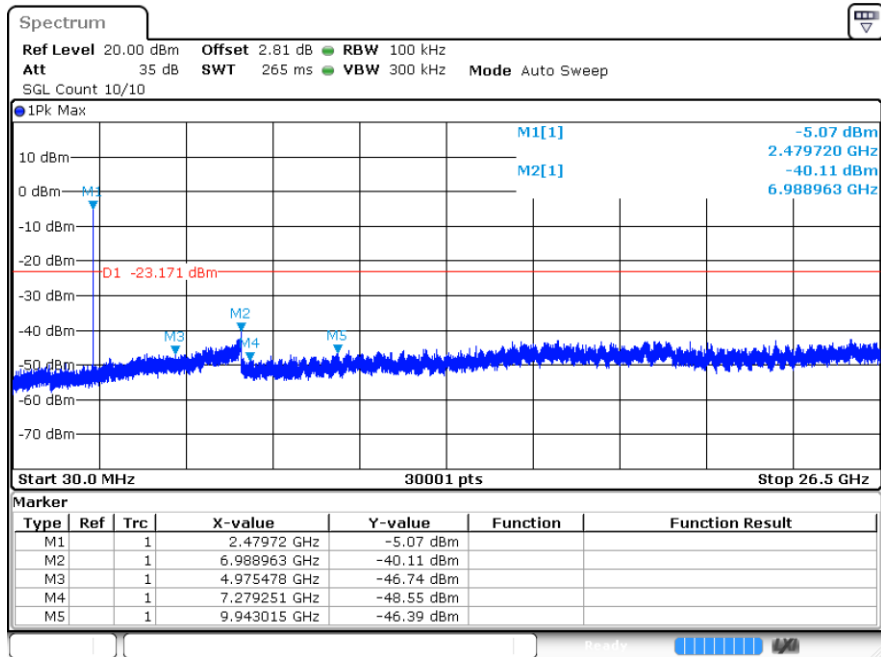


$\pi/4$ DQPSK_HCH_Graphs

Pref

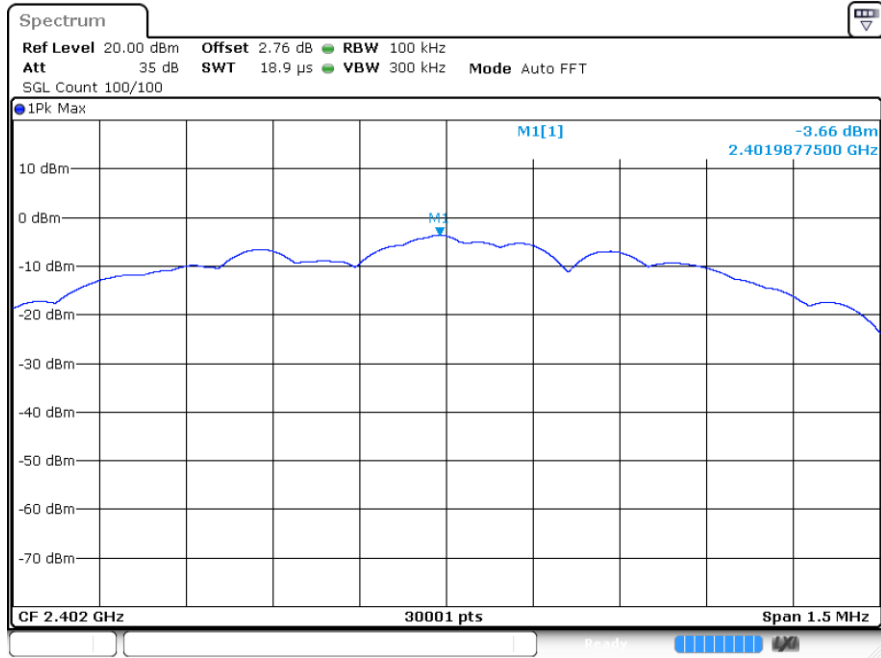


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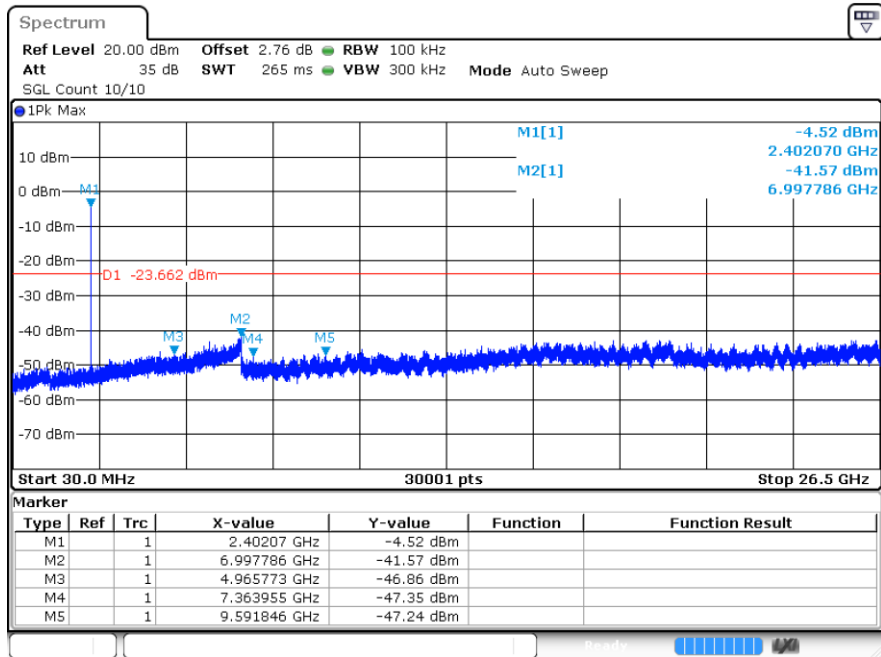


8DPSK_LCH_Graphs

Pref

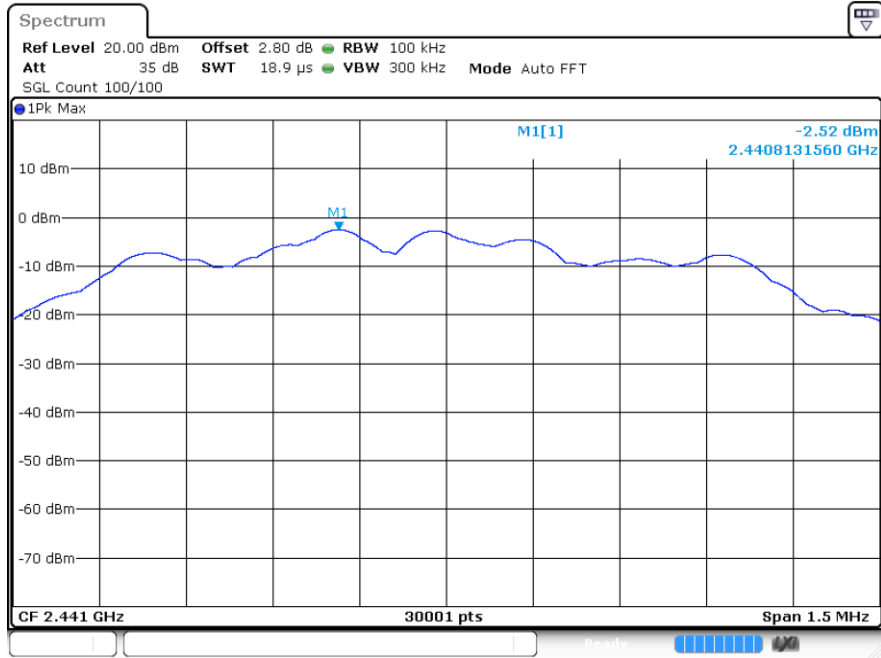


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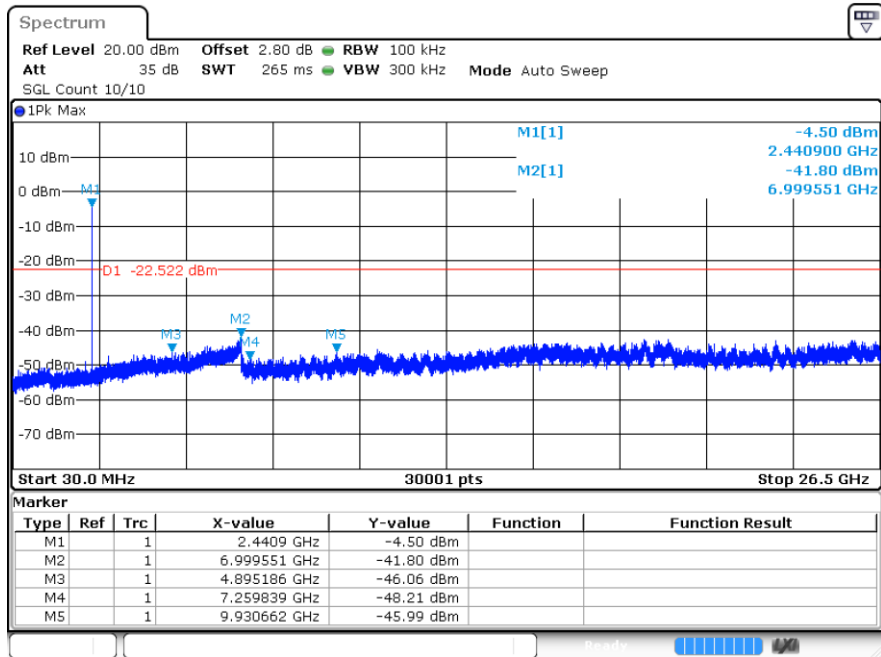


8DPSK_MCH_Graphs

Pref

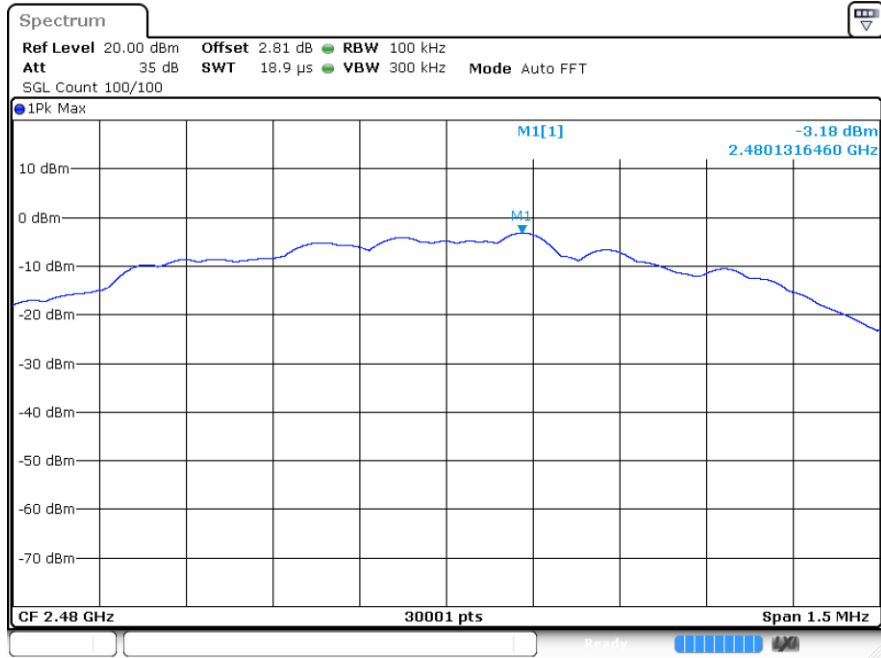


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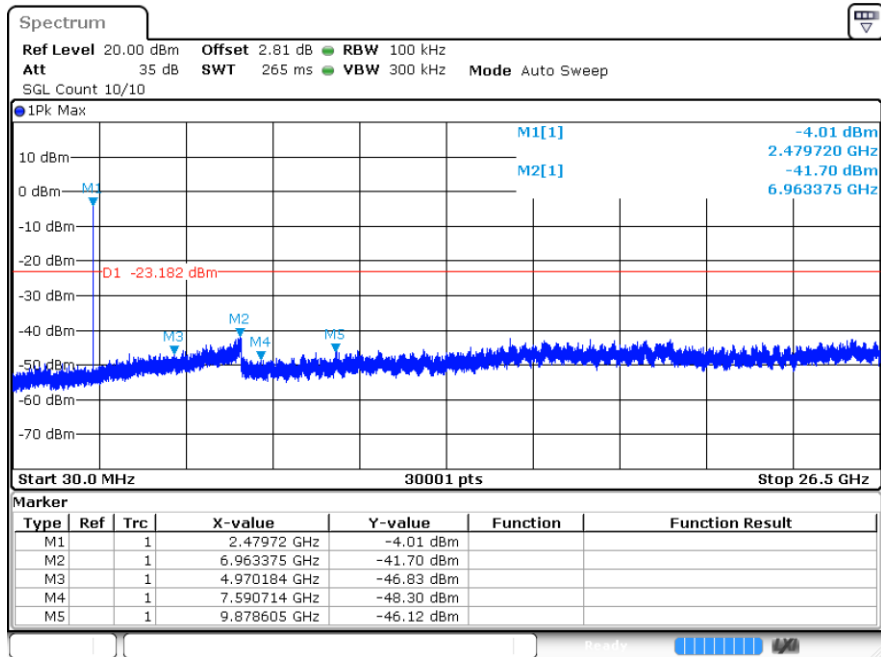


8DPSK_HCH_Graphs

Pref



Puw

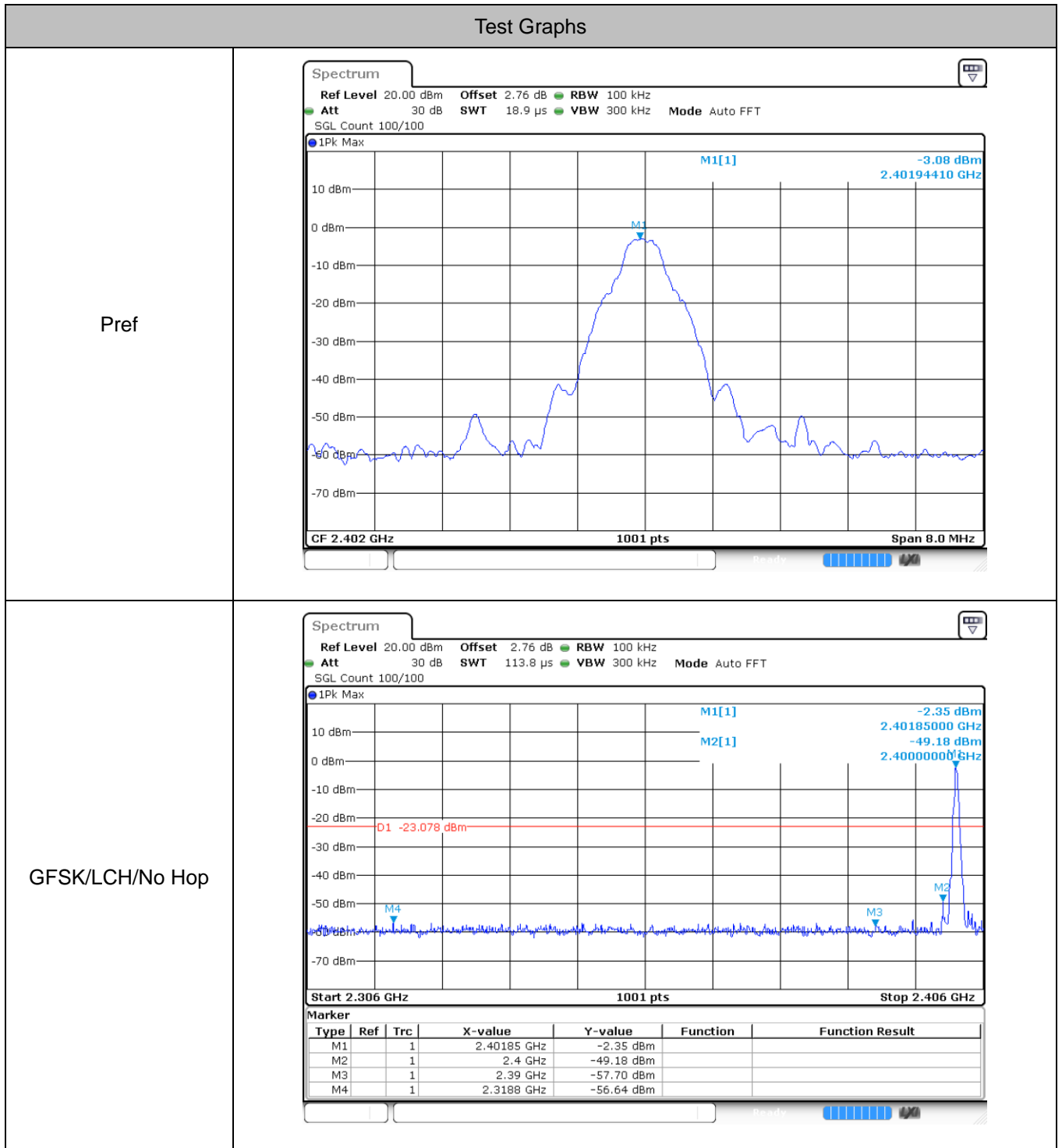


8 Band-edge for RF Conducted Emissions

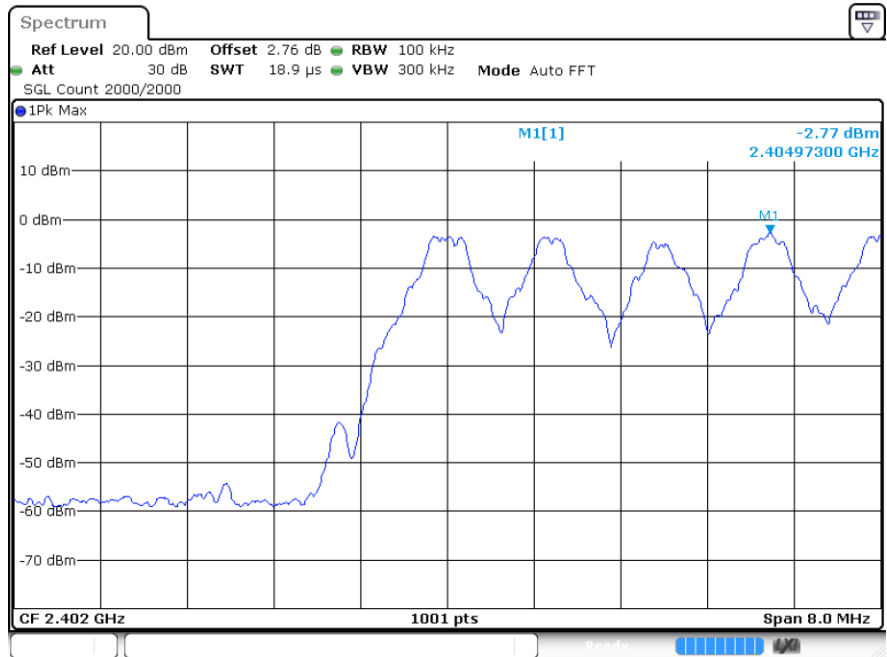
8.1 Test Result

Mode	Channel	Carrier Frequency [MHz]	Frequency Hopping	Max Spurious Level [dBc]	Limit [dBc]	Verdict
GFSK	LCH	2402	Off	-53.56	-20	Pass
			On	-52.57	-20	Pass
	HCH	2480	Off	-45.92	-20	Pass
			On	-53.79	-20	Pass
$\pi/4$ DQPSK	LCH	2402	Off	-52.32	-20	Pass
			On	-48.92	-20	Pass
	HCH	2480	Off	-52.98	-20	Pass
			On	-52.1	-20	Pass
8DPSK	LCH	2402	Off	-52.28	-20	Pass
			On	-51.56	-20	Pass
	HCH	2480	Off	-52.26	-20	Pass
			On	-46.15	-20	Pass

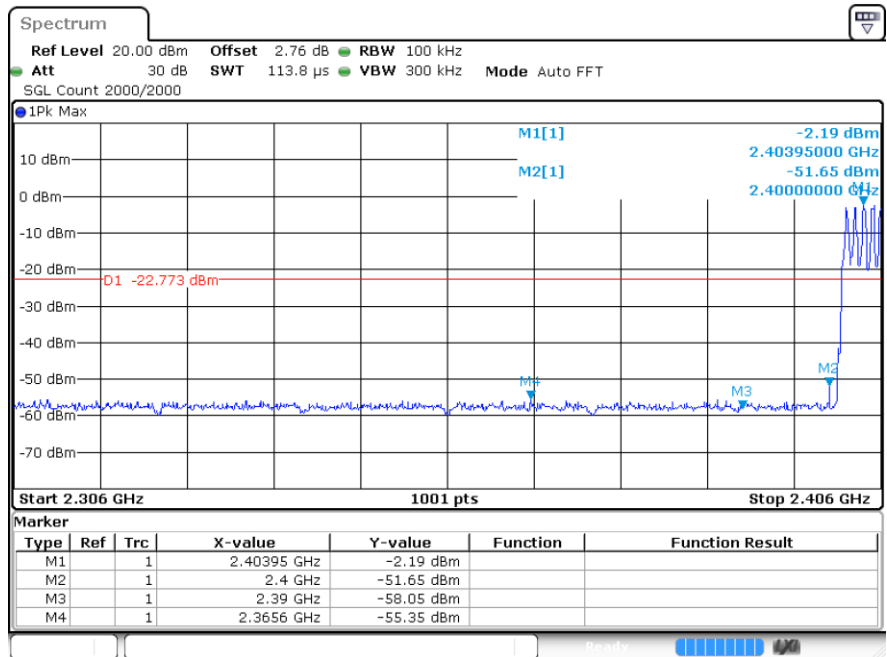
8.2 Test Graphs

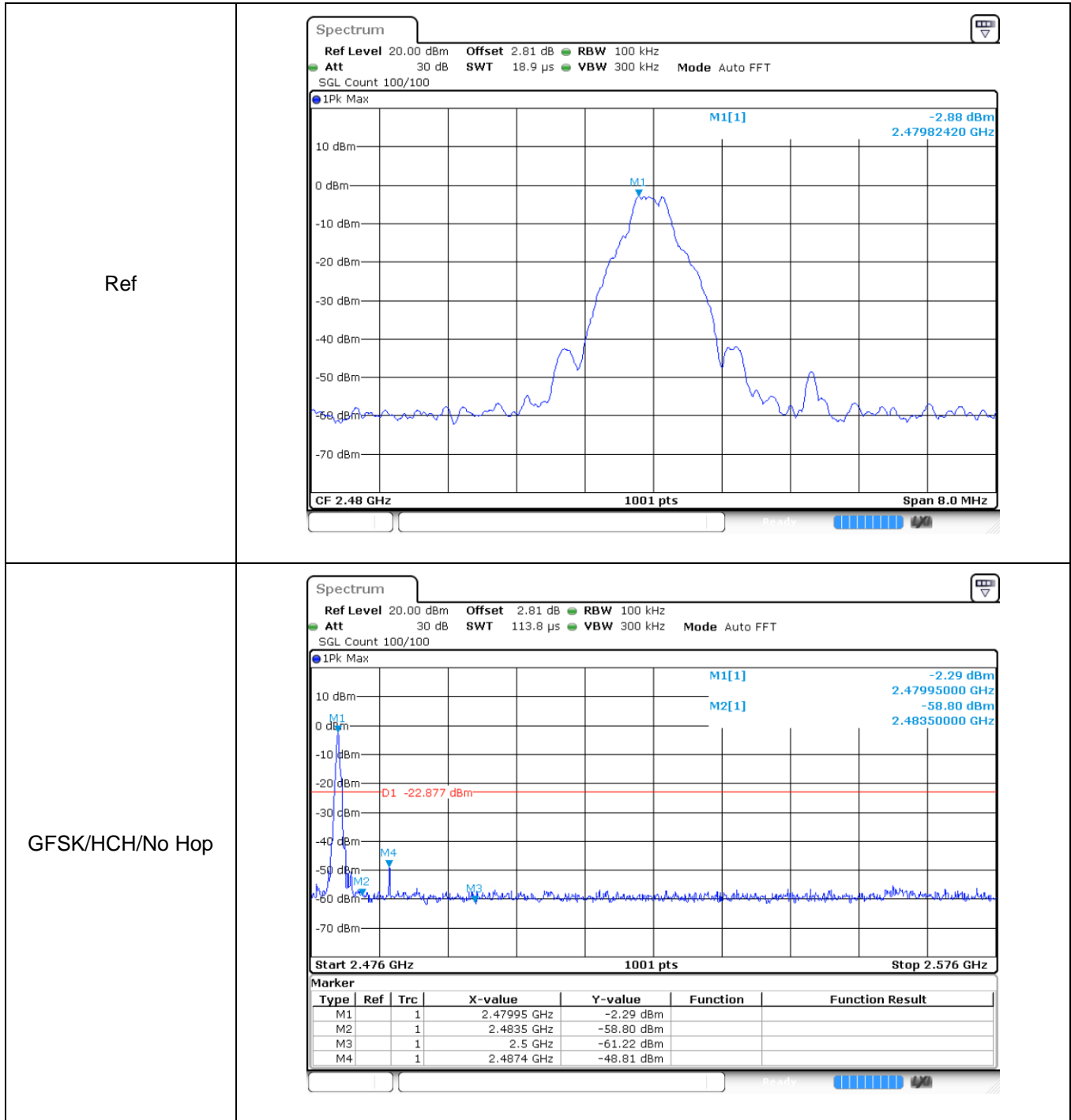


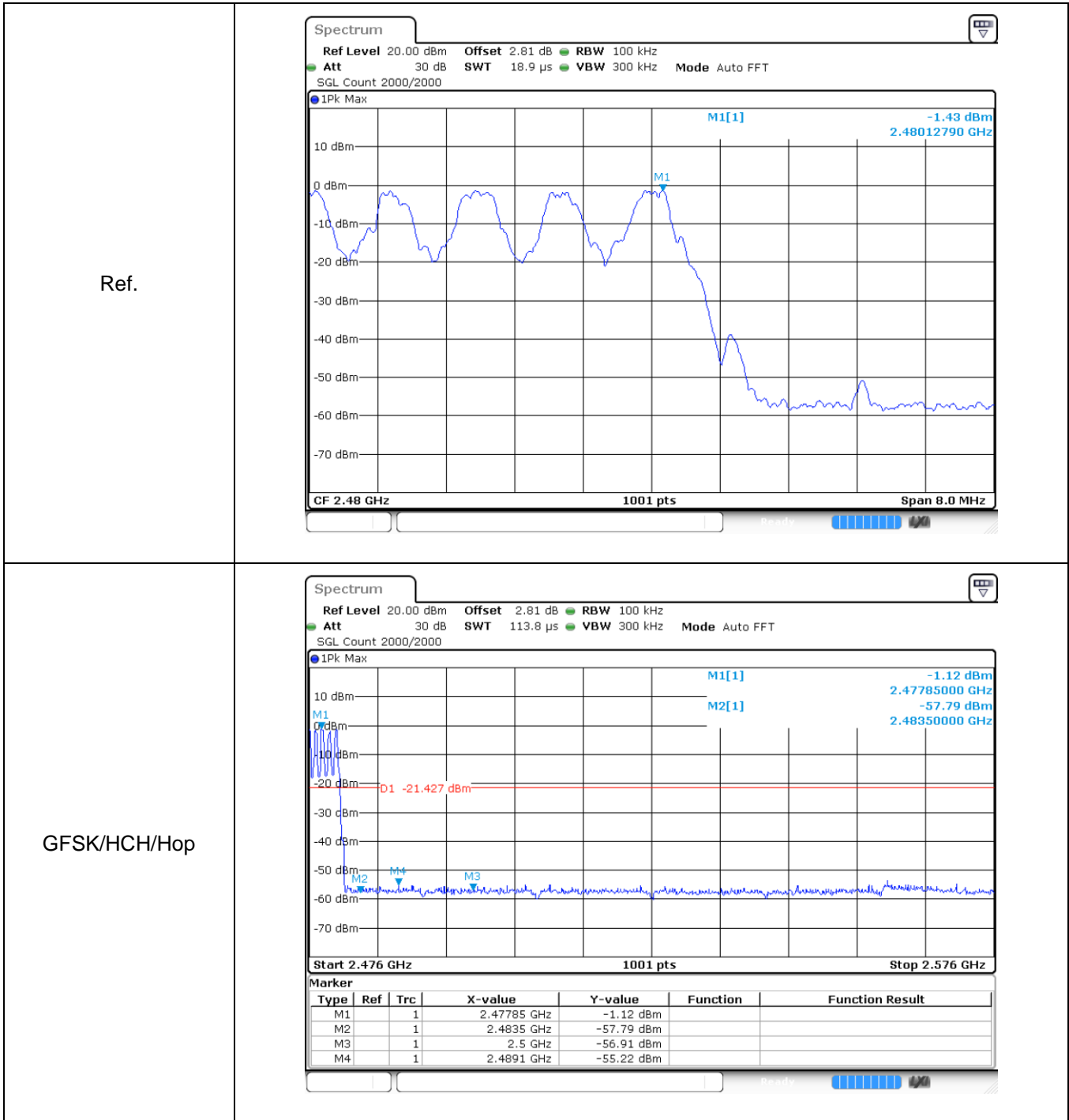
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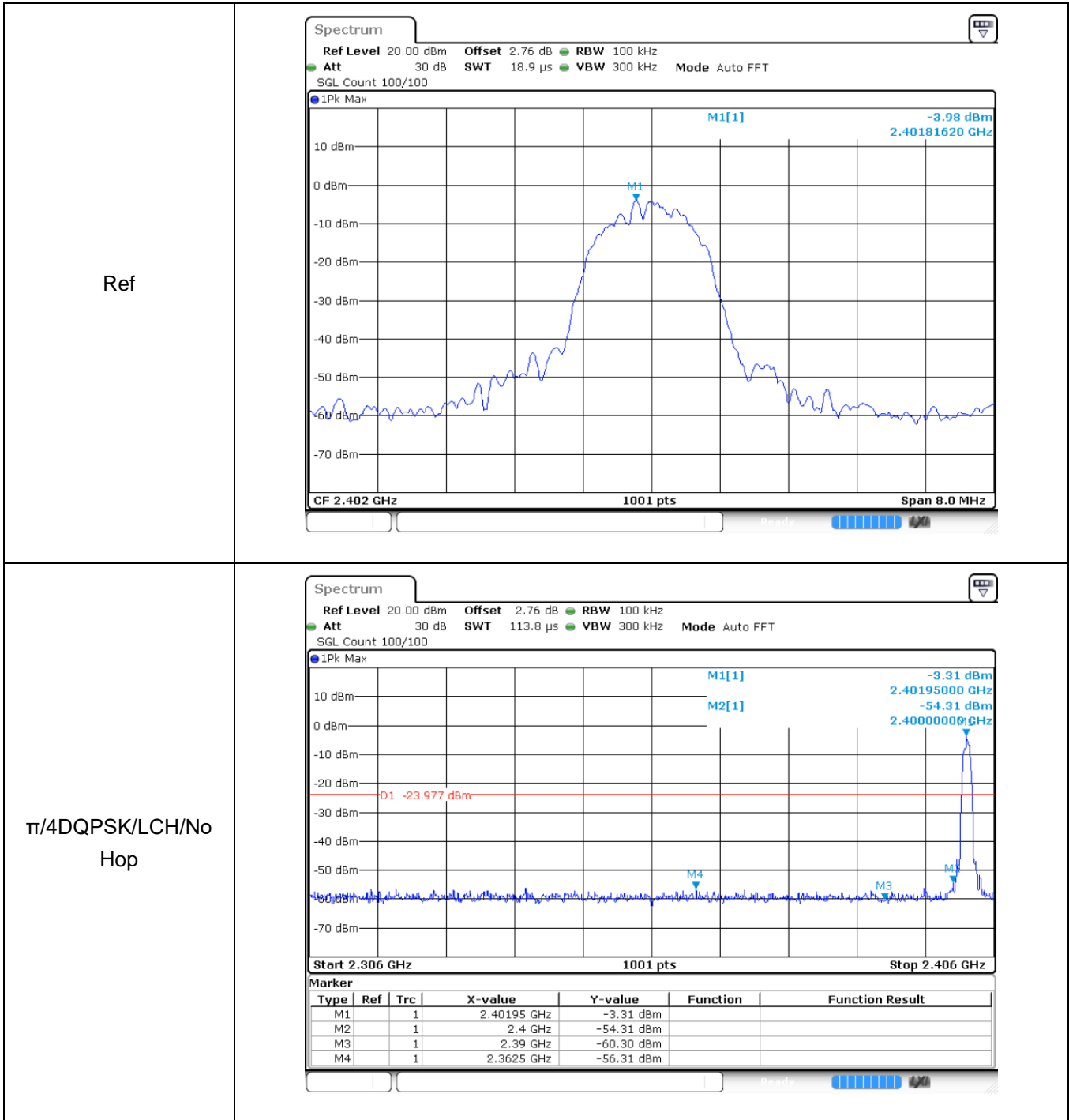


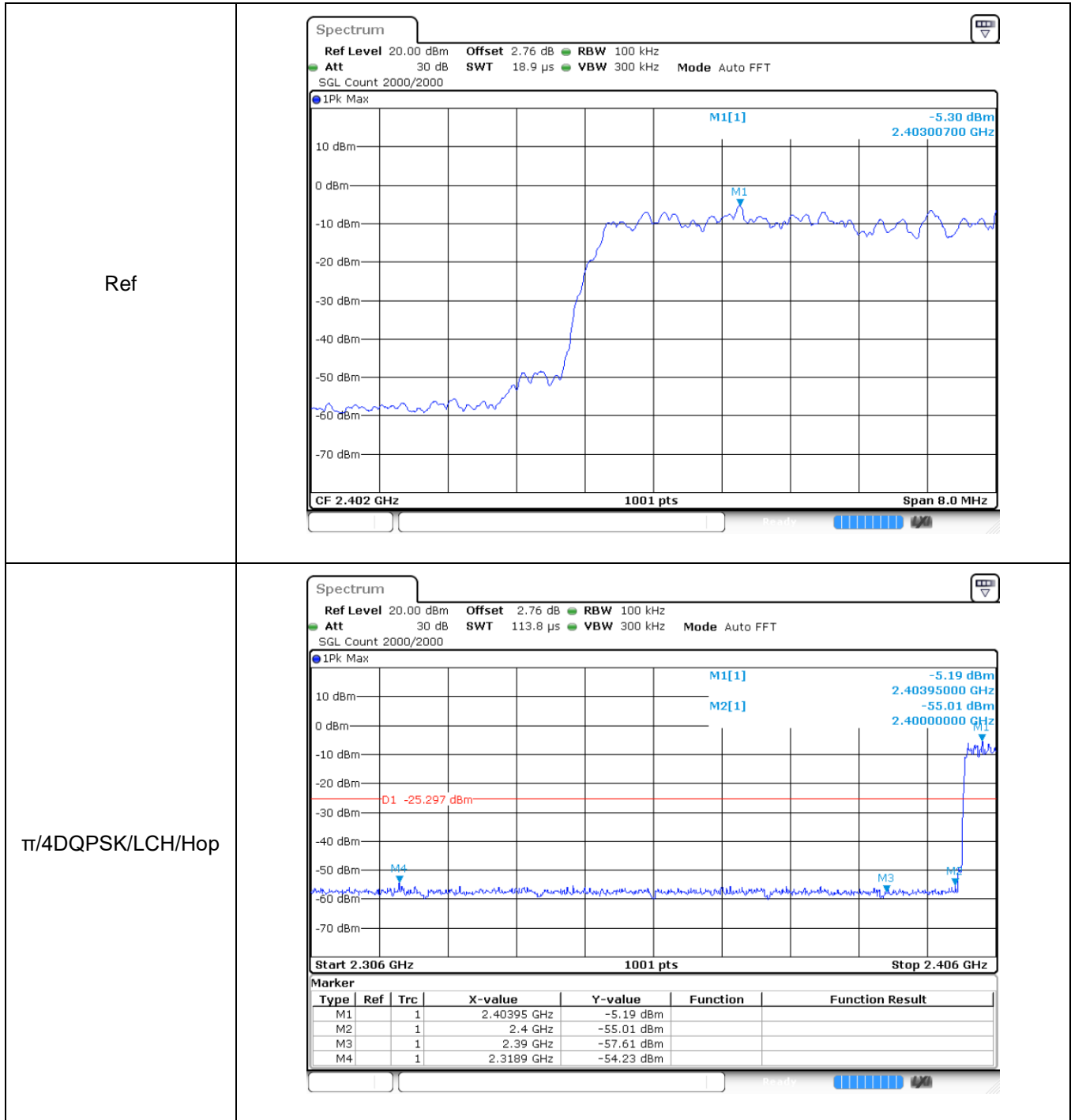
GFSK/LCH/Hop

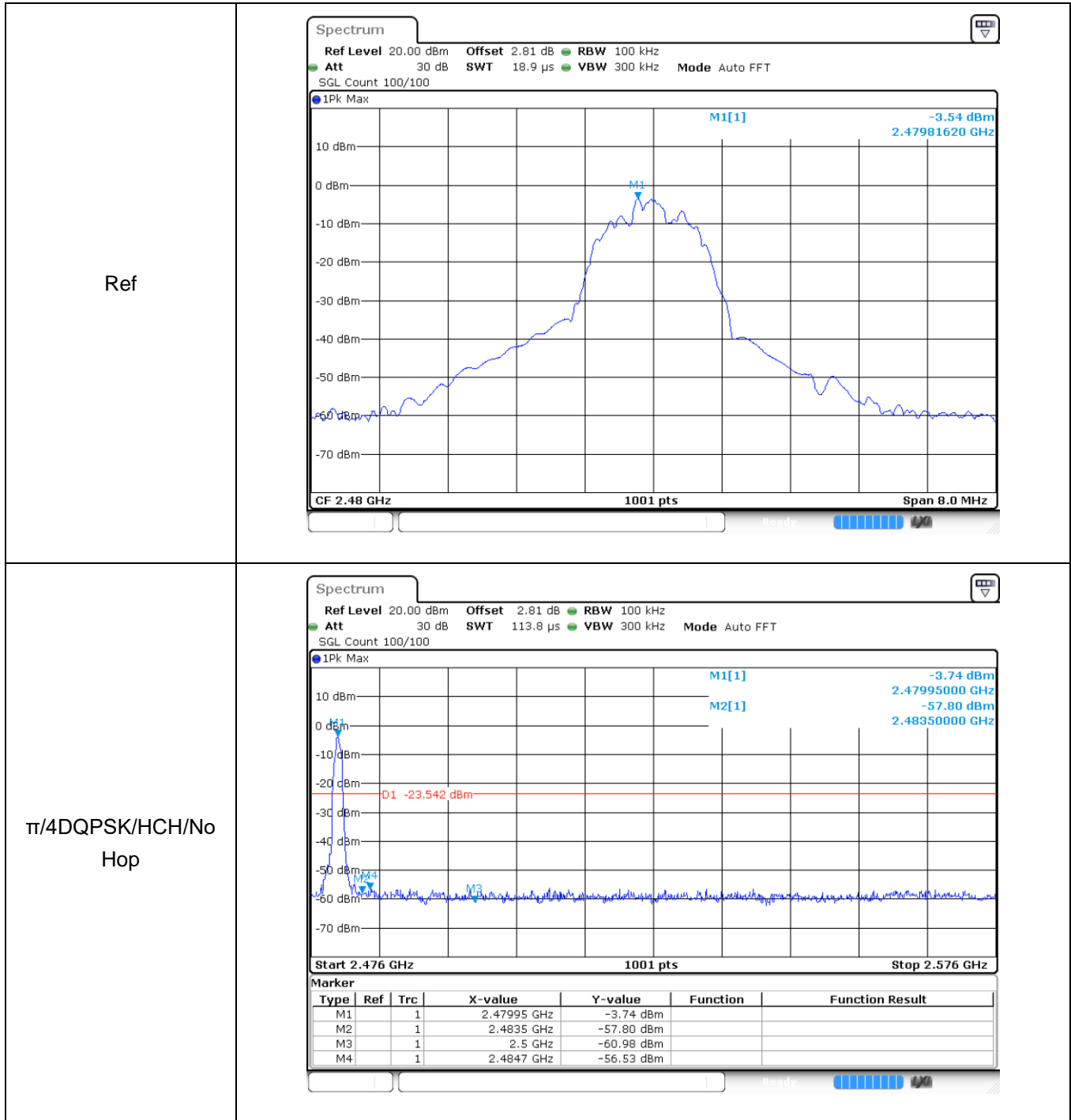


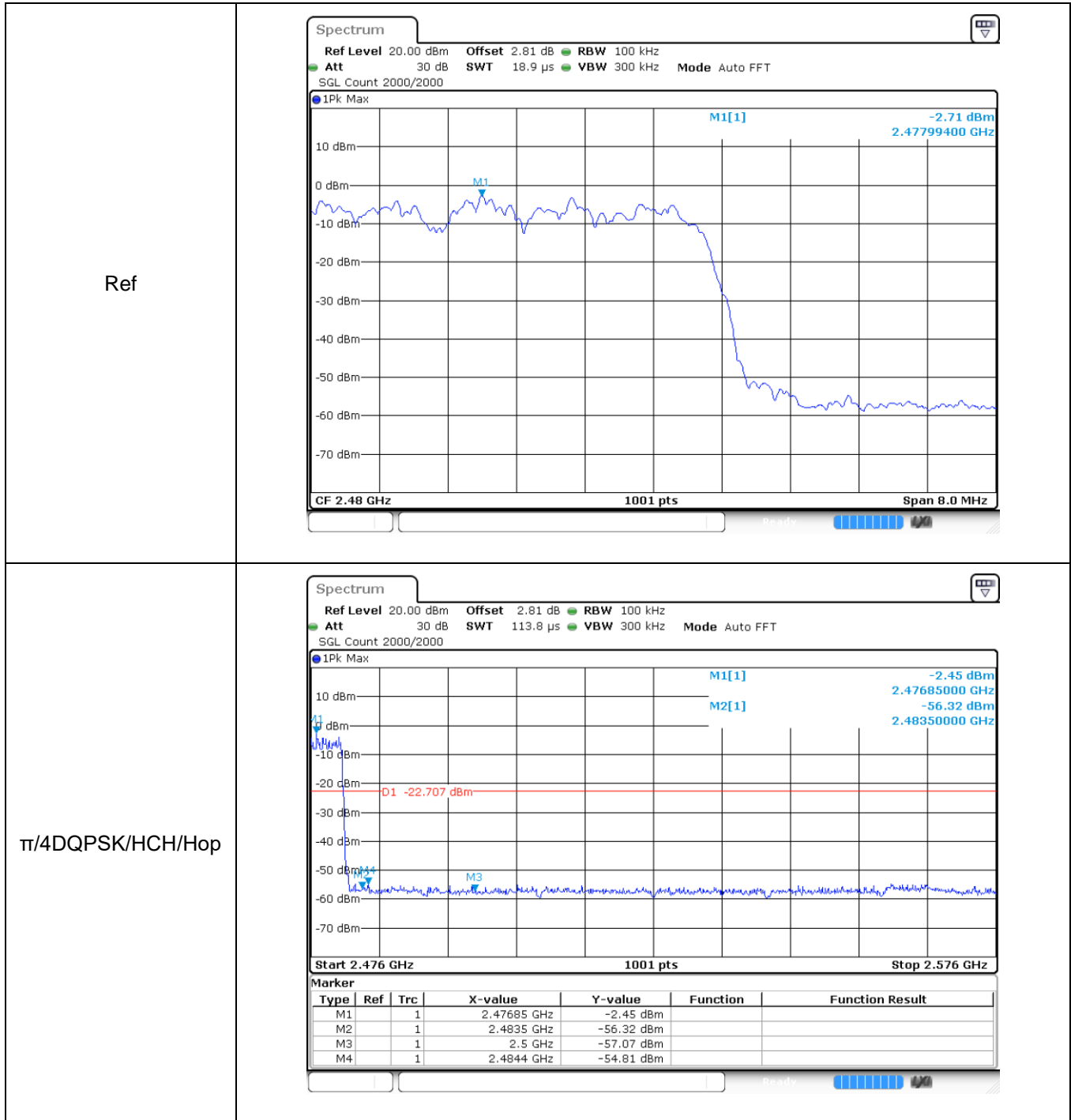


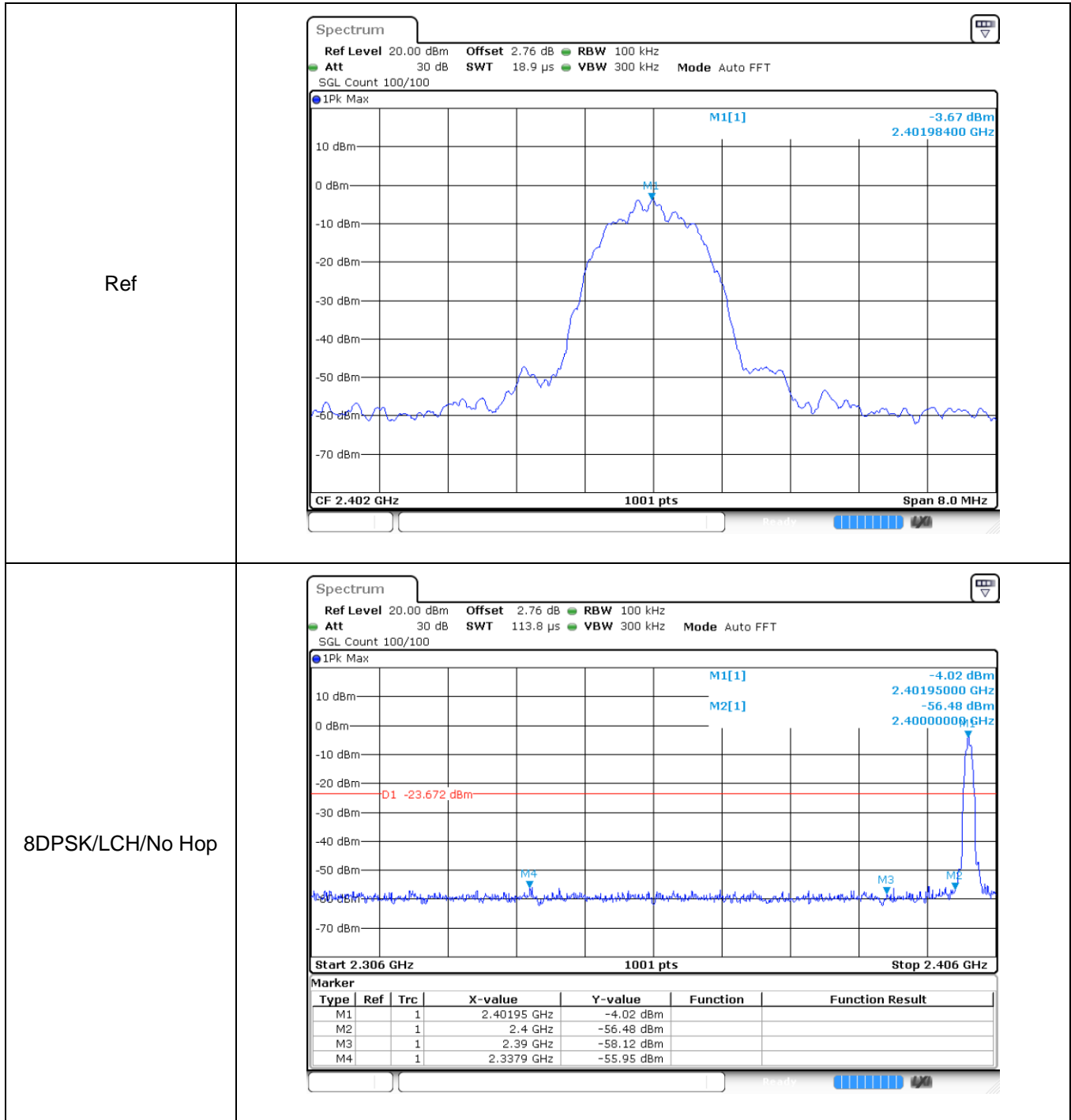


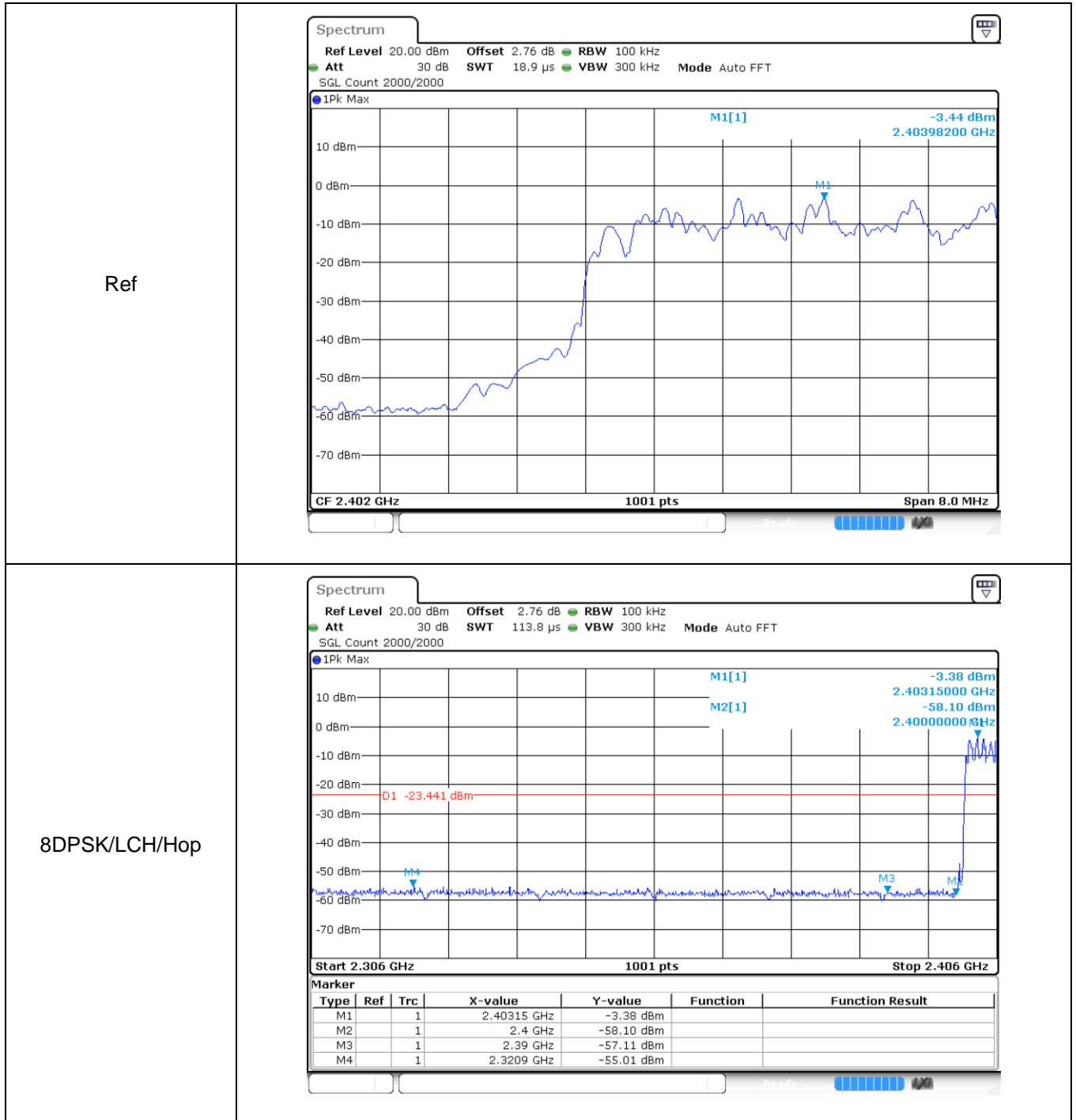


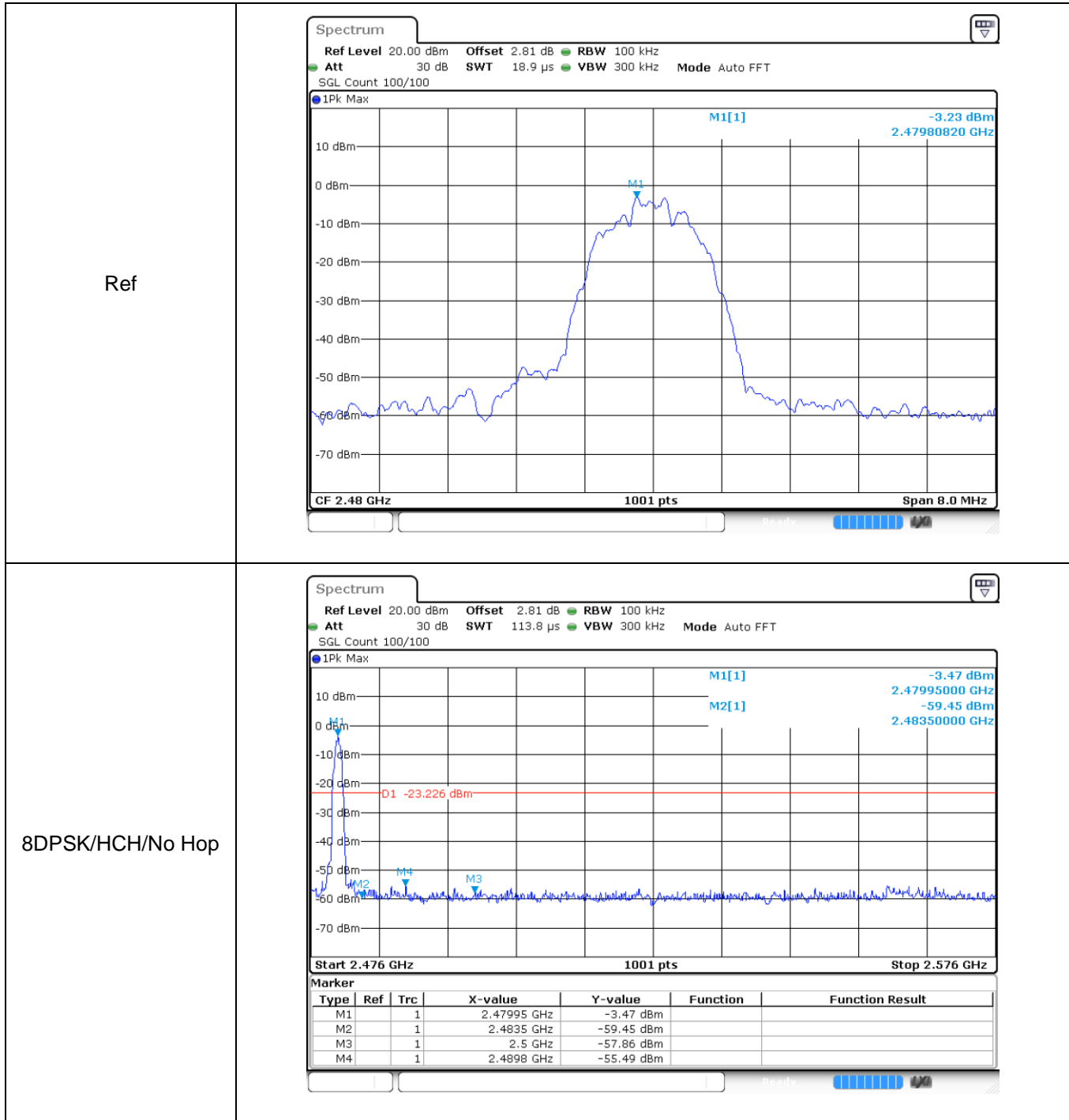


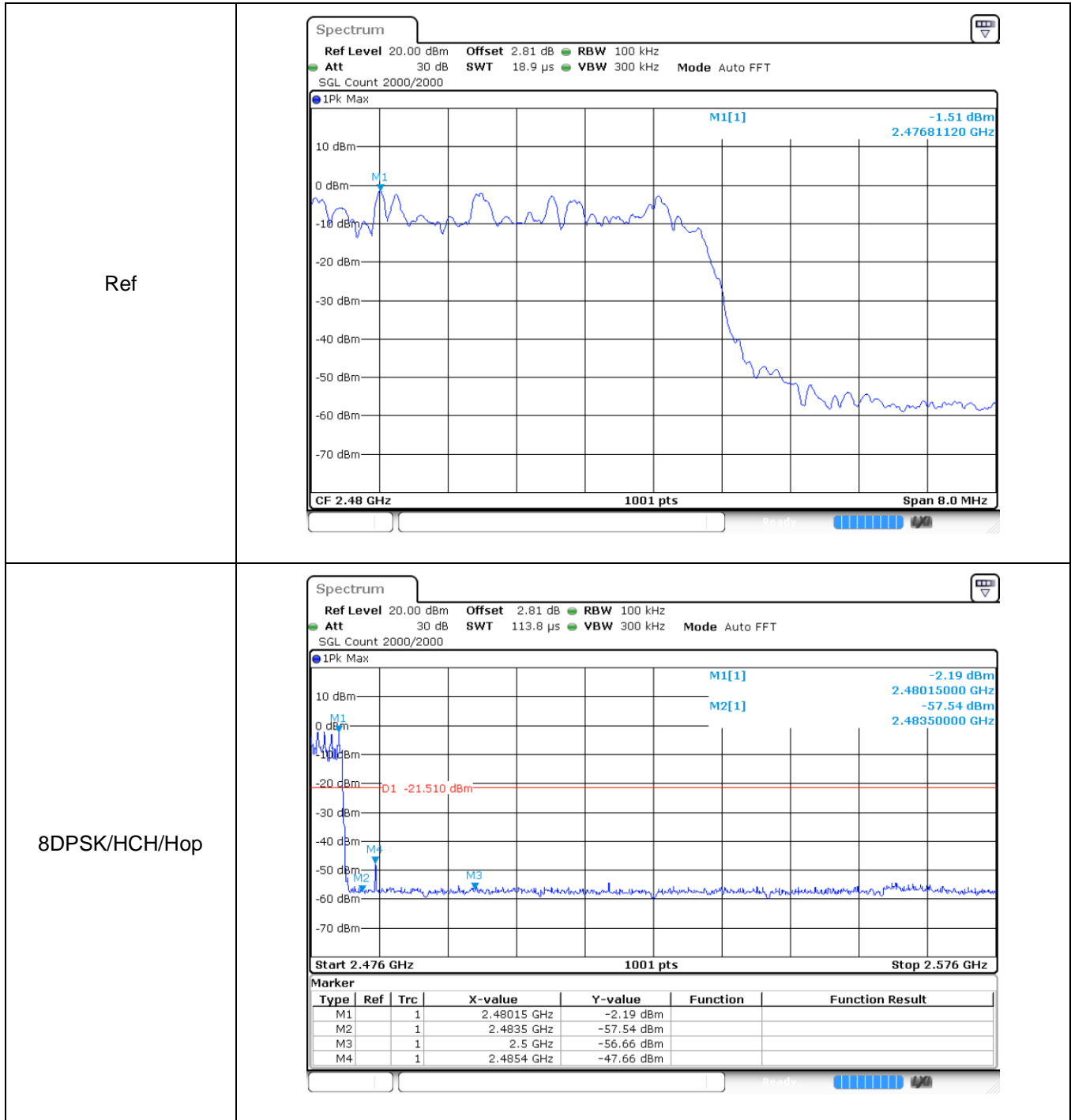












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