



Appendix A

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

Product Name: Mini PC

Trade Mark: Blackview

Test Model: MP100

Environmental Conditions

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



Contents

Page

COVER PAGE

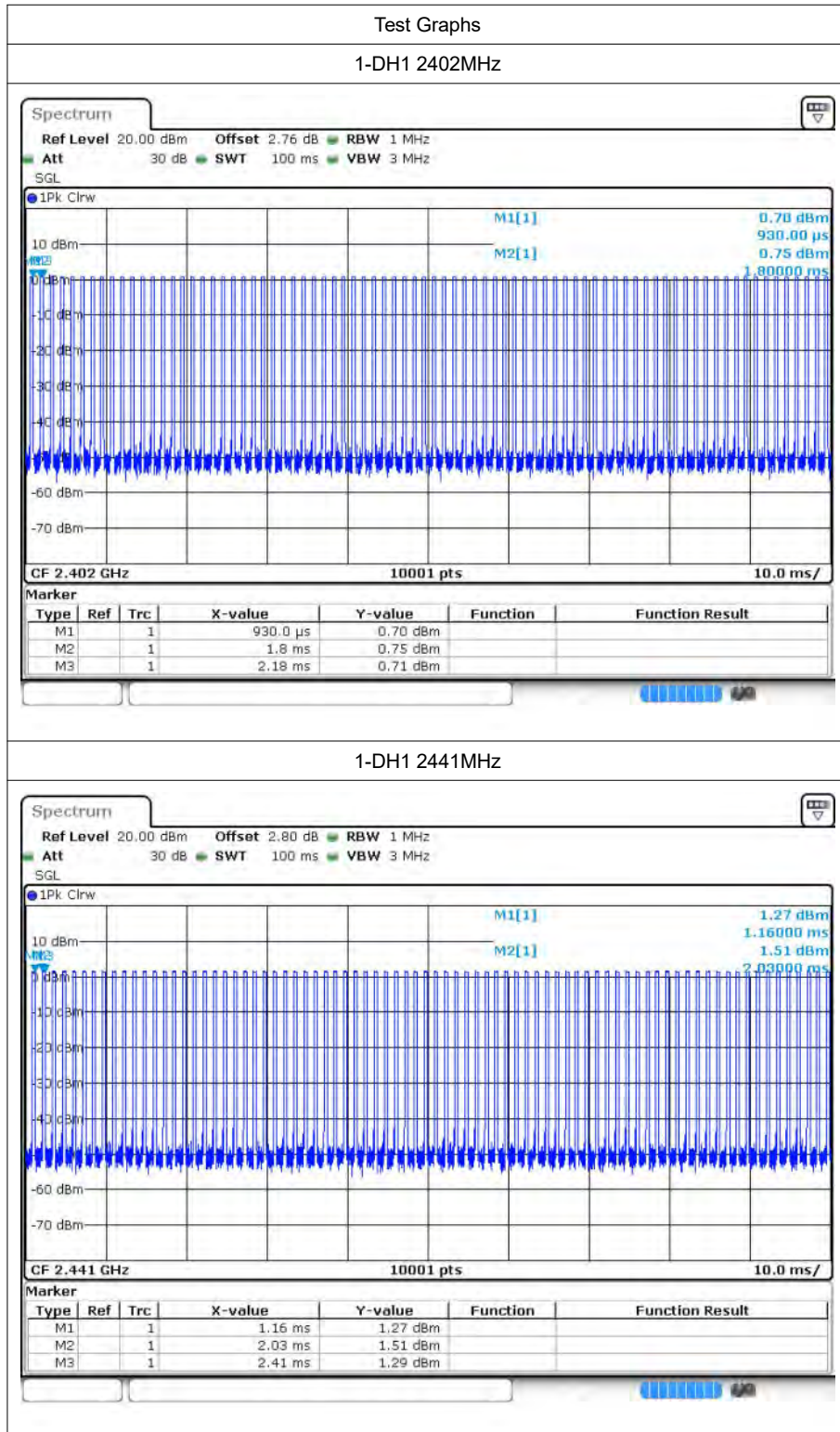
1	Duty Cycle	3
1.1	Test Result	3
1.2	Test Graphs	4
2	Maximum Conducted Peak Output Power	9
2.1	Test Result	9
2.2	Test Graphs	10
3	20dB Bandwidth	15
3.1	Test Result	15
3.2	Test Graphs	16
4	Carrier Frequency Separation	21
4.1	Test Result	21
4.2	Test Graphs	22
5	Hopping Channel Number	24
5.1	Test Result	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
9	Restrict-band band-edge measurements	54
9.1	Test Result	54
9.2	Test Graphs	56

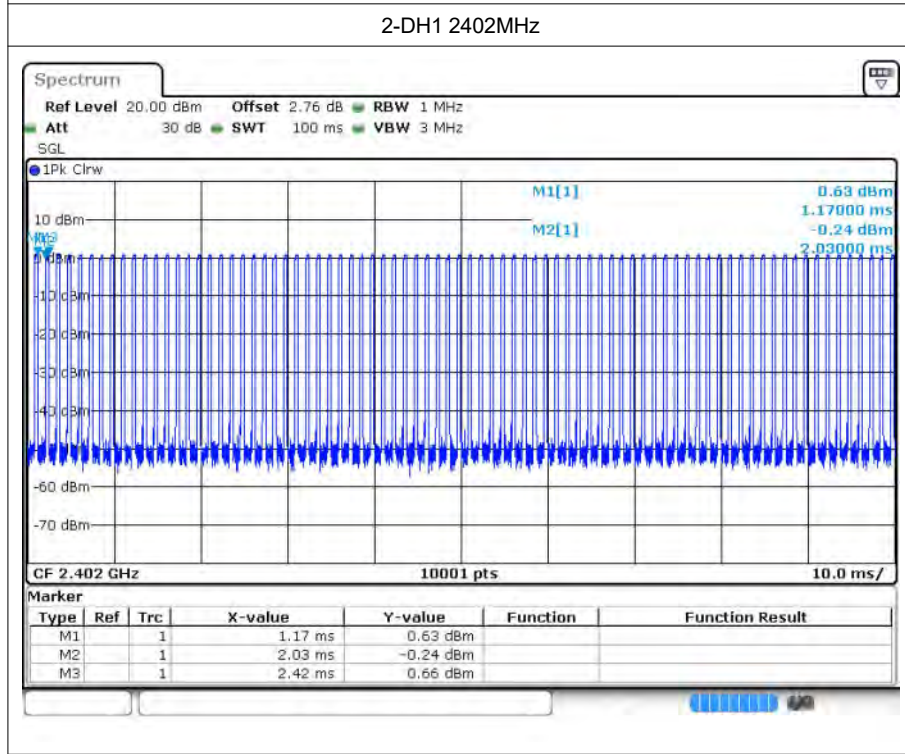
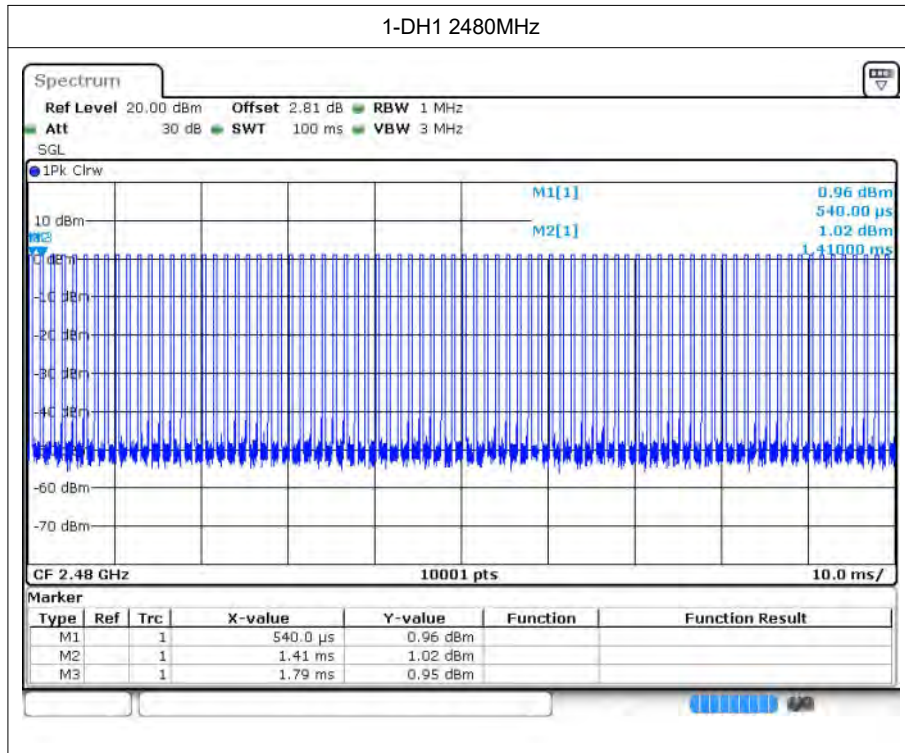
1 Duty Cycle

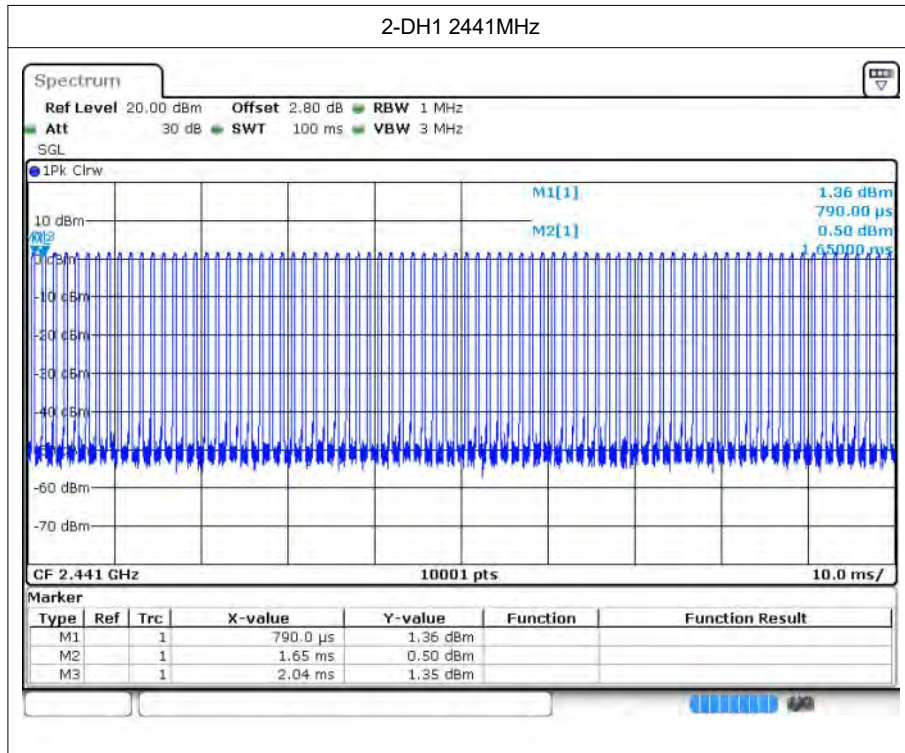
1.1 Test Result

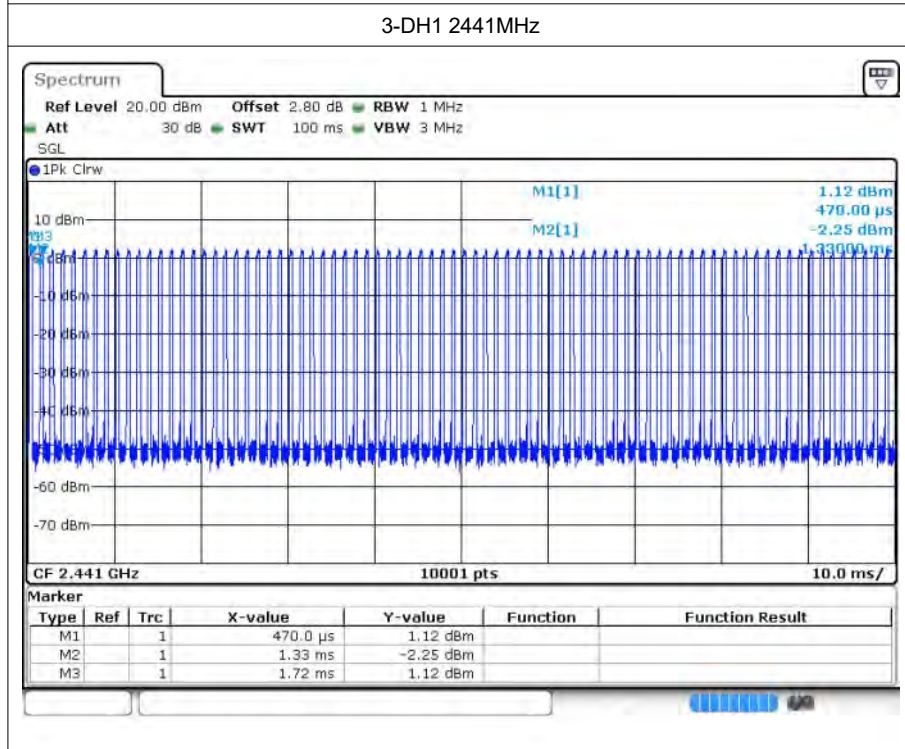
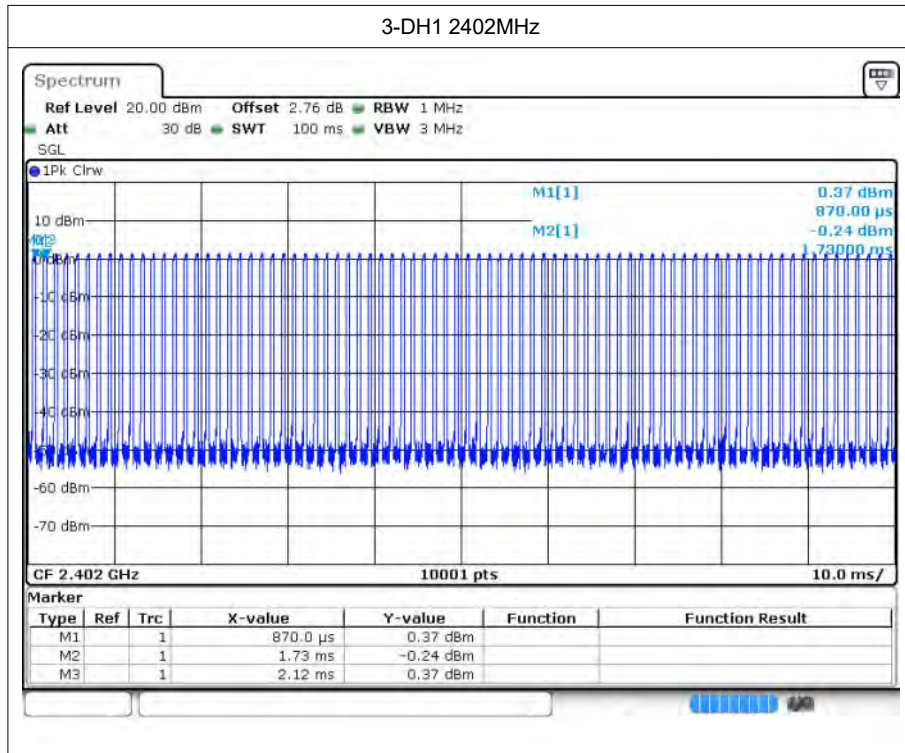
Mode	Frequency (MHz)	Duty Cycle (%)	Correction Factor	1/T (kHz)
1-DH1	2402	31.2	5.06	2.63
1-DH1	2441	31.2	5.06	2.63
1-DH1	2480	31.54	5.01	2.63
2-DH1	2402	32	4.95	2.56
2-DH1	2441	32	4.95	2.56
2-DH1	2480	32	4.95	2.56
3-DH1	2402	32	4.95	2.56
3-DH1	2441	32.04	4.94	2.56
3-DH1	2480	32	4.95	2.56

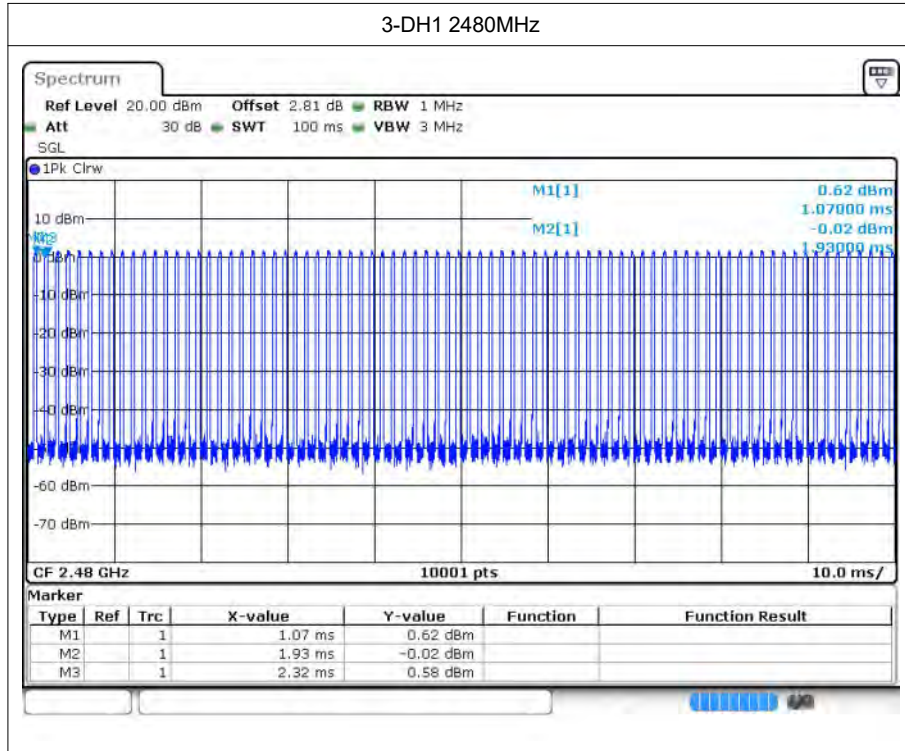
1.2 Test Graphs









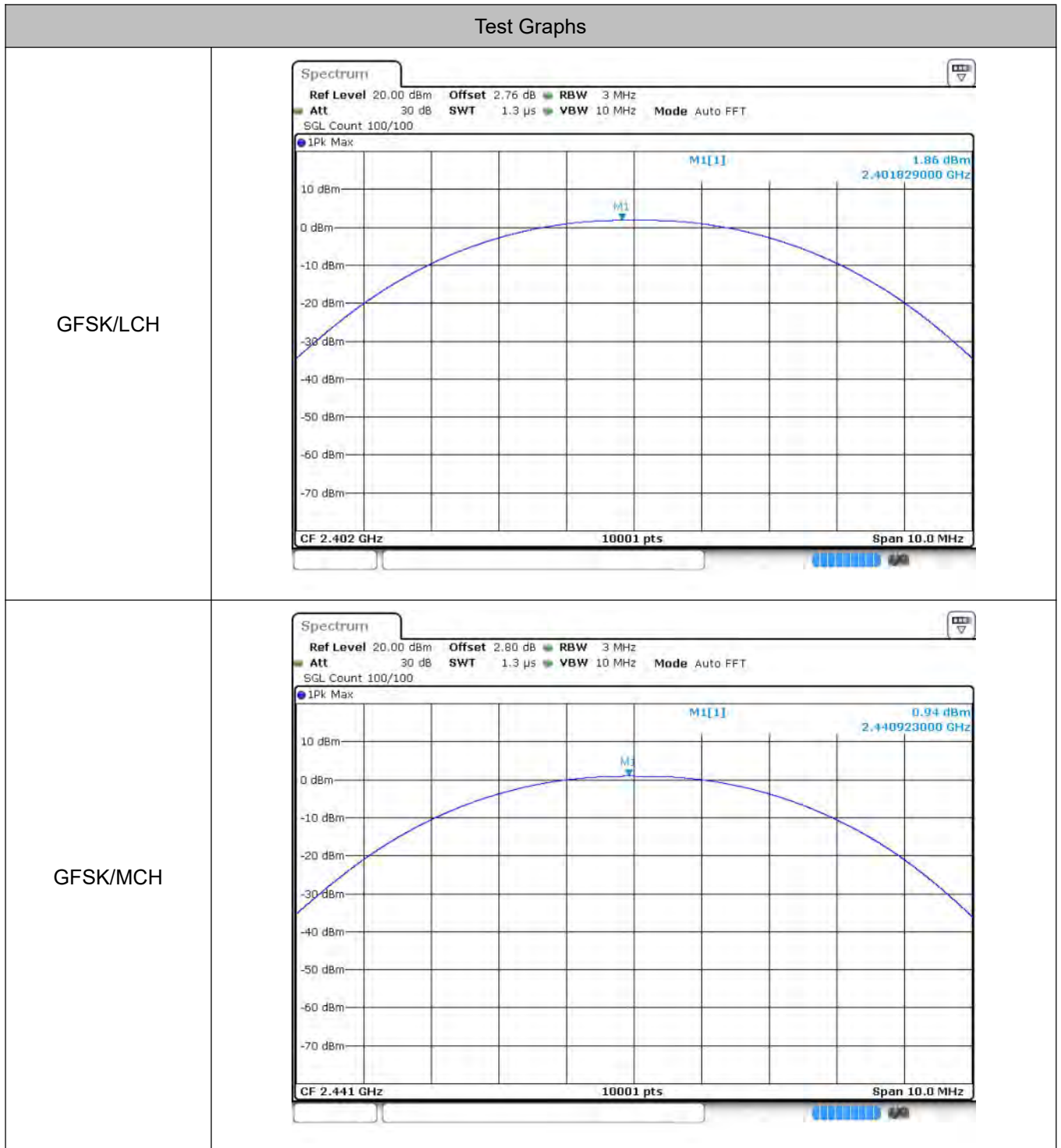


2 Maximum Conducted Peak Output Power

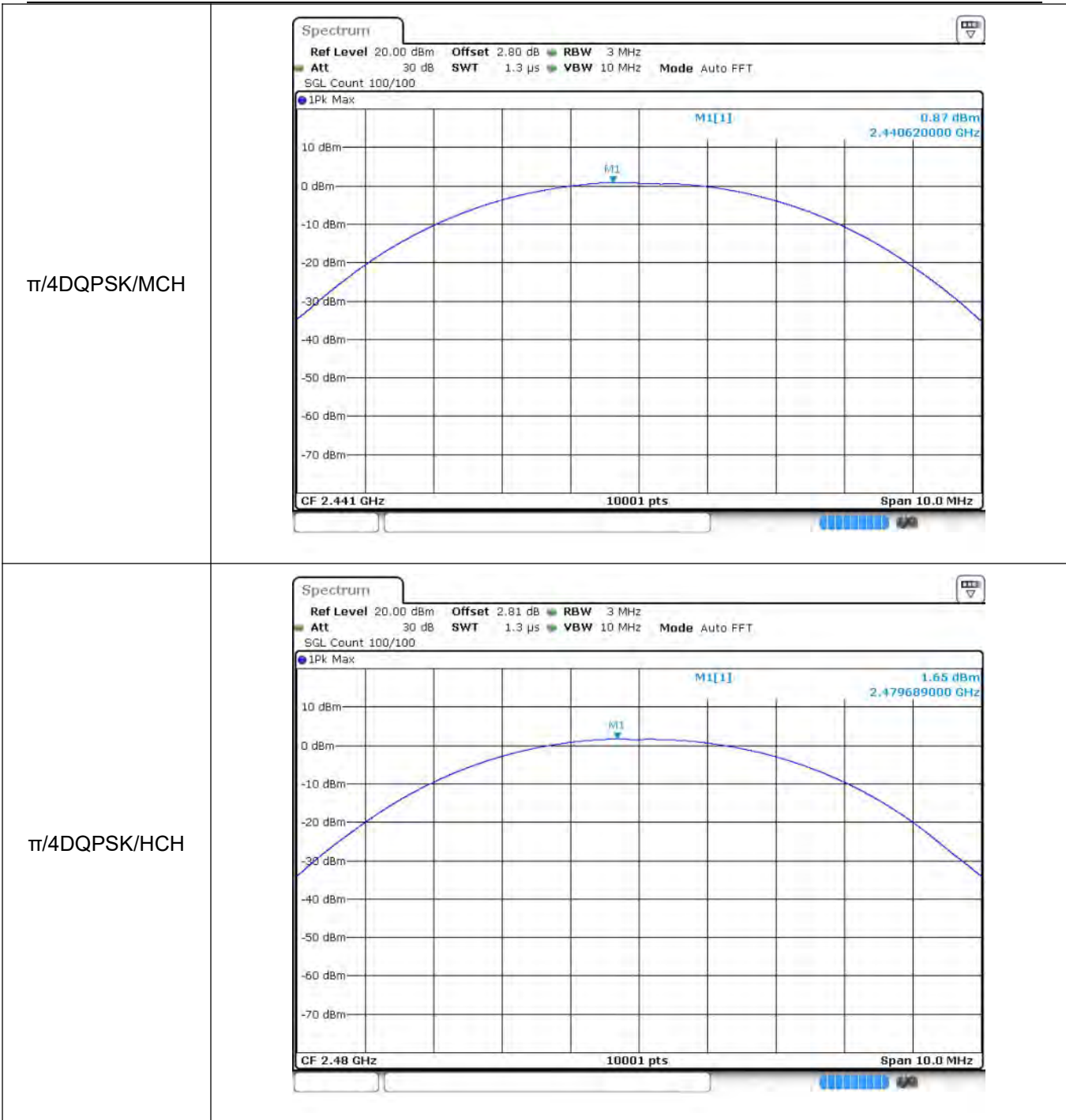
2.1 Test Result

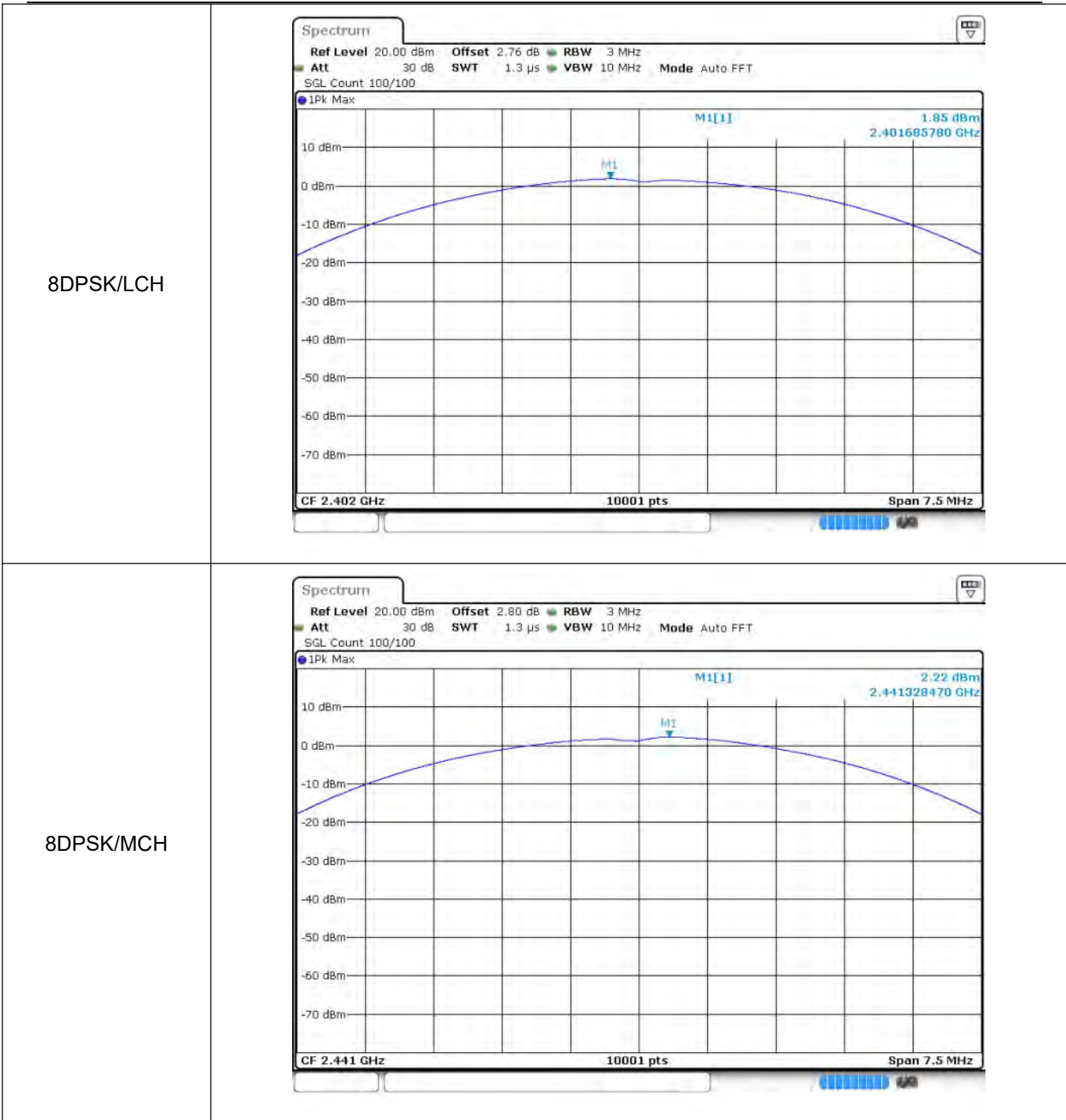
Mode	Channel.	Maximum Peak Output Power [dBm]	Limit [dBm]	Verdict
GFSK	LCH	1.86	21	Pass
	MCH	0.94	21	Pass
	HCH	1.65	21	Pass
$\pi/4$ DQPSK	LCH	1.43	21	Pass
	MCH	0.87	21	Pass
	HCH	1.65	21	Pass
8DPSK	LCH	1.85	21	Pass
	MCH	2.22	21	Pass
	HCH	1.66	21	Pass

2.2 Test Graphs

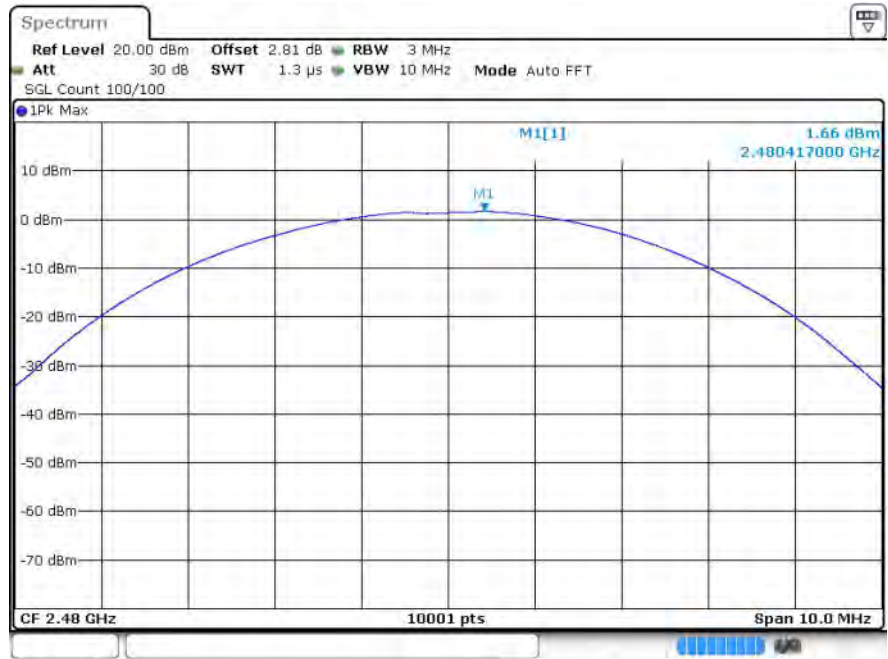


<p>GFSK/HCH</p>	
<p>$\pi/4$DQPSK/LCH</p>	





8DPSK/HCH

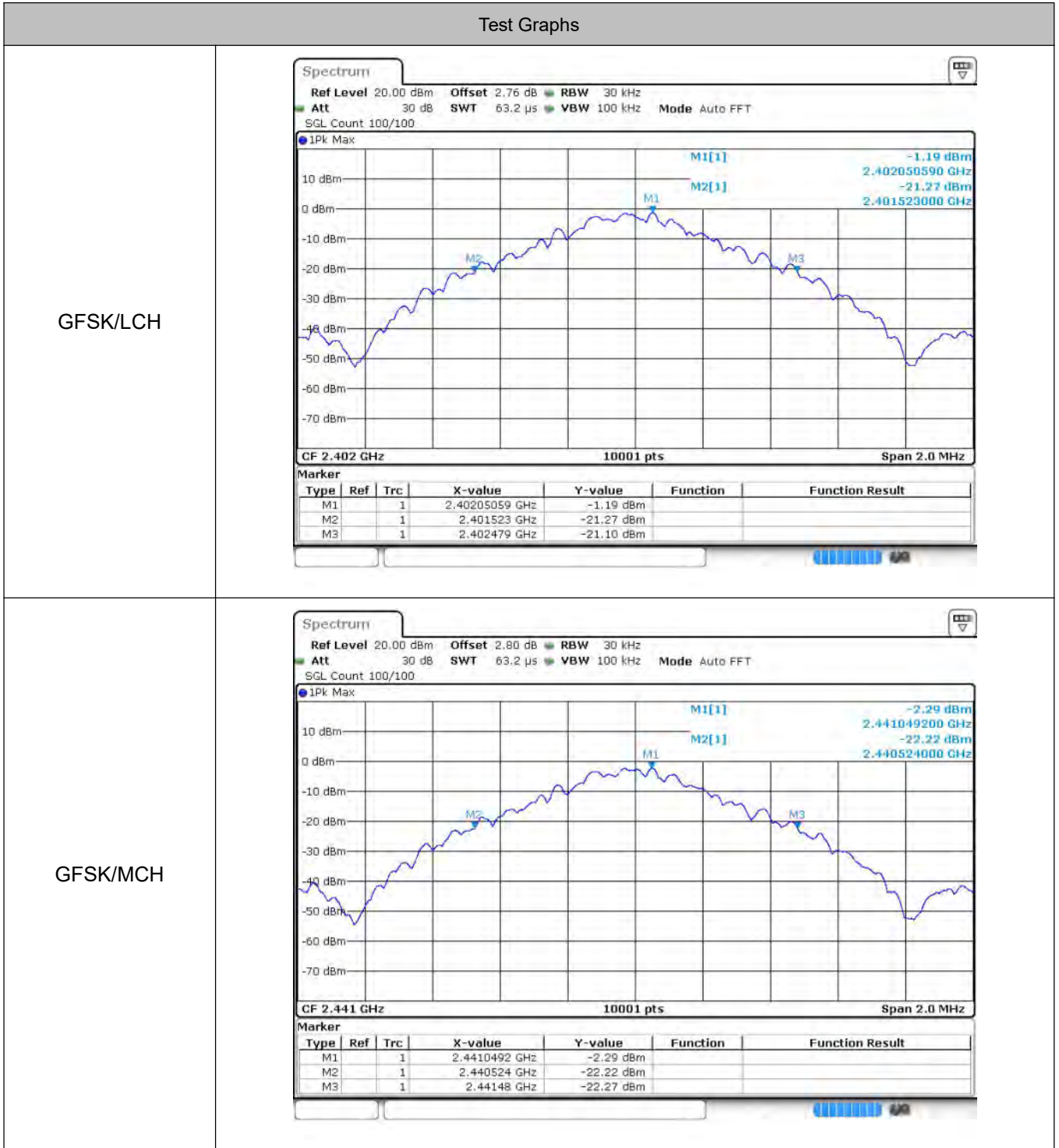


3 20dB Bandwidth

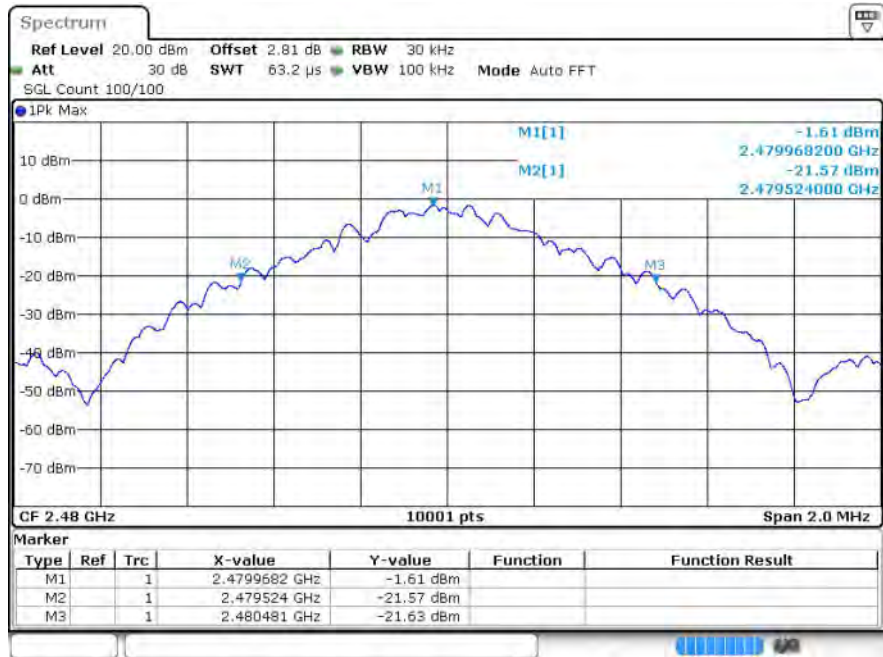
3.1 Test Result

Mode	Channel.	20dB Bandwidth [MHz]	Limit [MHz]	Verdict
GFSK	LCH	0.956	Not Specified	Pass
	MCH	0.956	Not Specified	Pass
	HCH	0.957	Not Specified	Pass
$\pi/4$ DQPSK	LCH	1.36	Not Specified	Pass
	MCH	1.351	Not Specified	Pass
	HCH	1.36	Not Specified	Pass
8DPSK	LCH	1.346	Not Specified	Pass
	MCH	1.344	Not Specified	Pass
	HCH	1.342	Not Specified	Pass

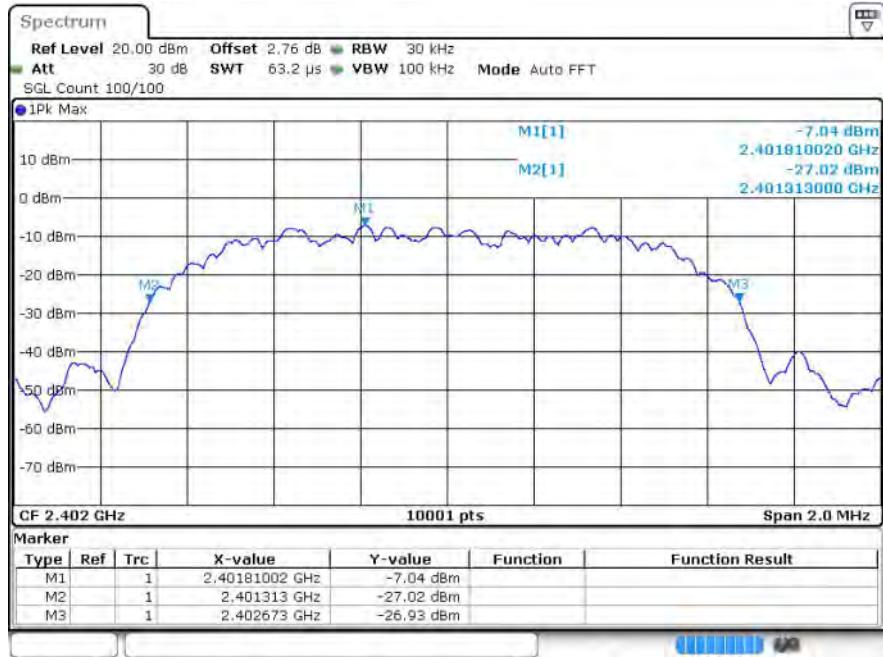
3.2 Test Graphs



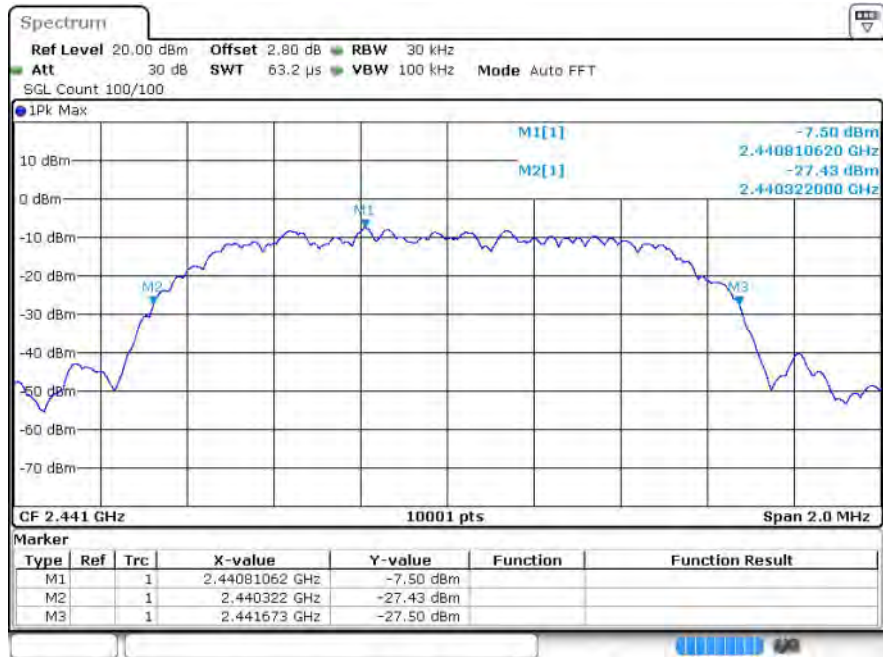
GFSK/HCH



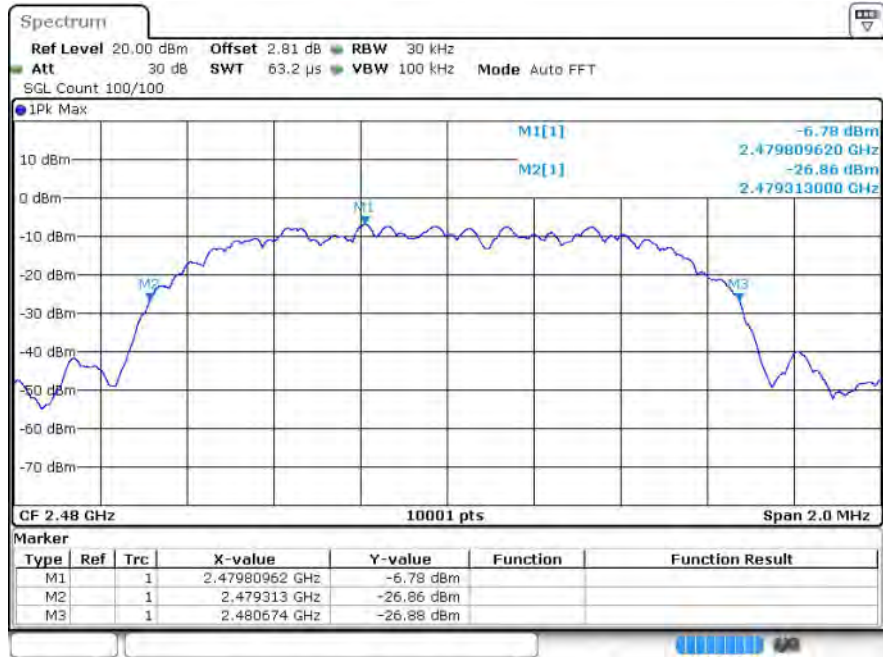
$\pi/4$ DQPSK/LCH



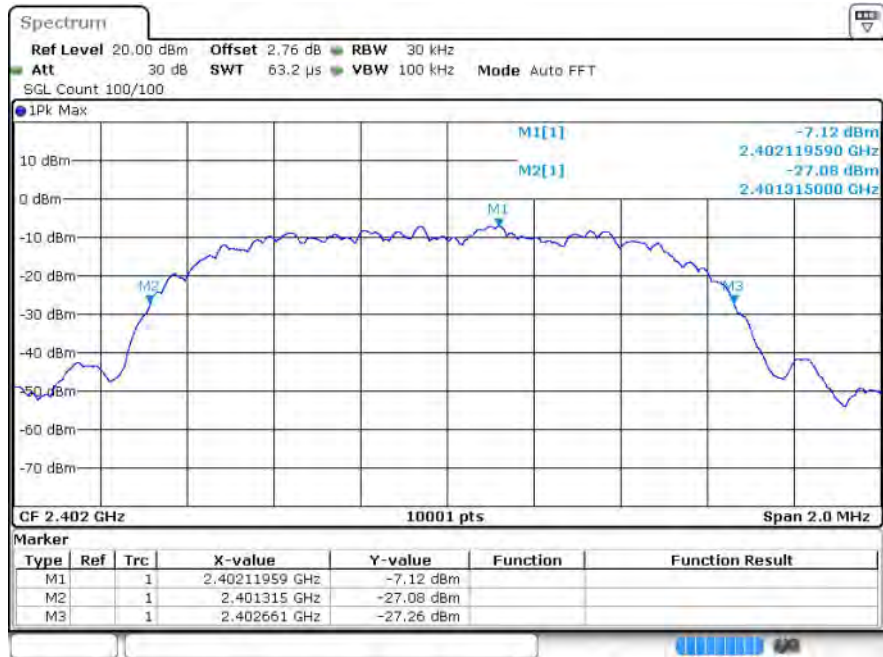
$\pi/4$ DQPSK/MCH



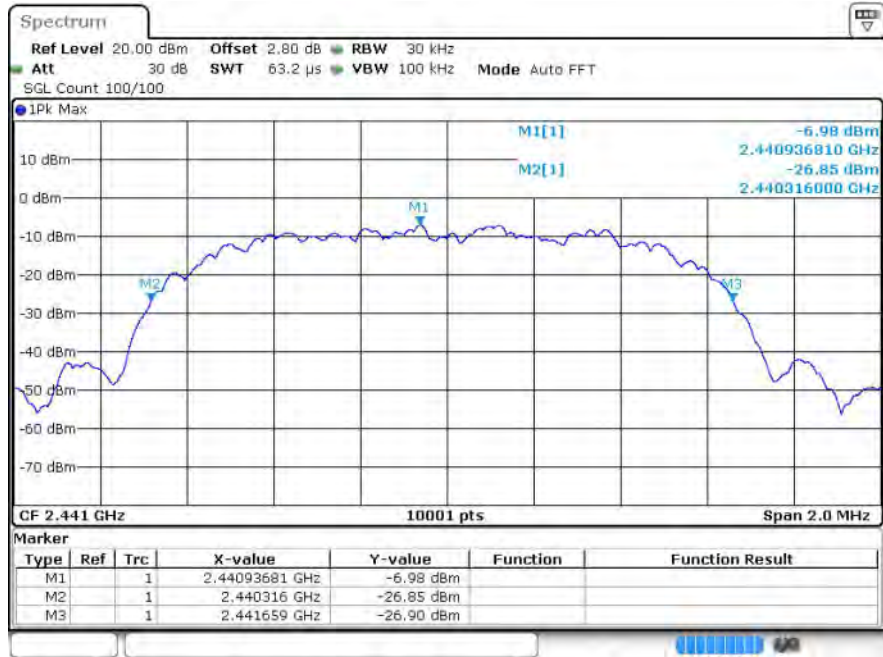
$\pi/4$ DQPSK/HCH



8DPSK/LCH

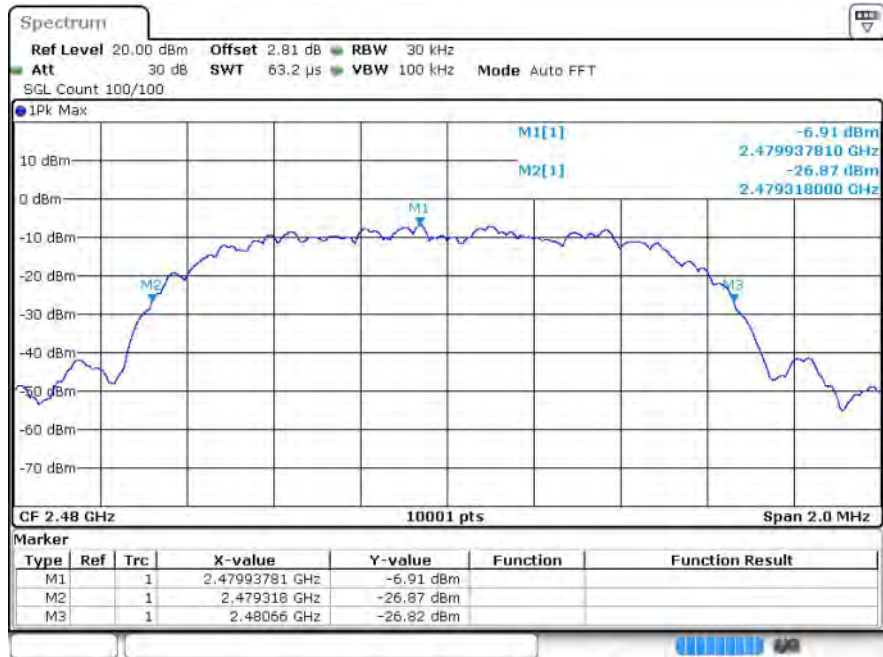


8DPSK/MCH





8DPSK/HCH



4 Carrier Frequency Separation

4.1 Test Result

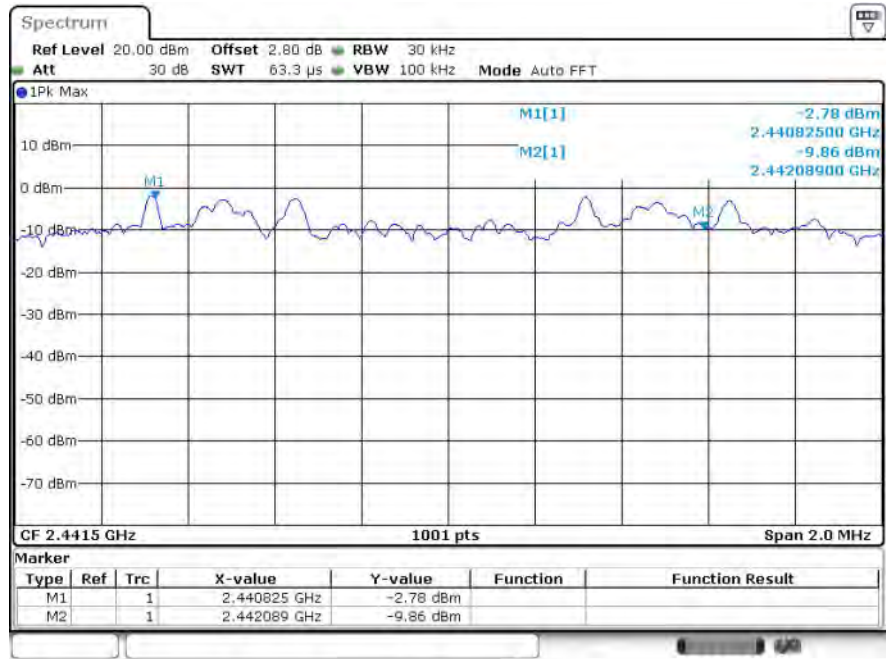
Mode	Channel.	Carrier Frequency Separation [MHz]	Limit [MHz]	Verdict
GFSK	MCH	1.003	0.637	Pass
$\pi/4$ DQPSK	MCH	0.902	0.901	Pass
8DPSK	MCH	1.264	0.896	Pass

4.2 Test Graphs





8DPSK/MCH

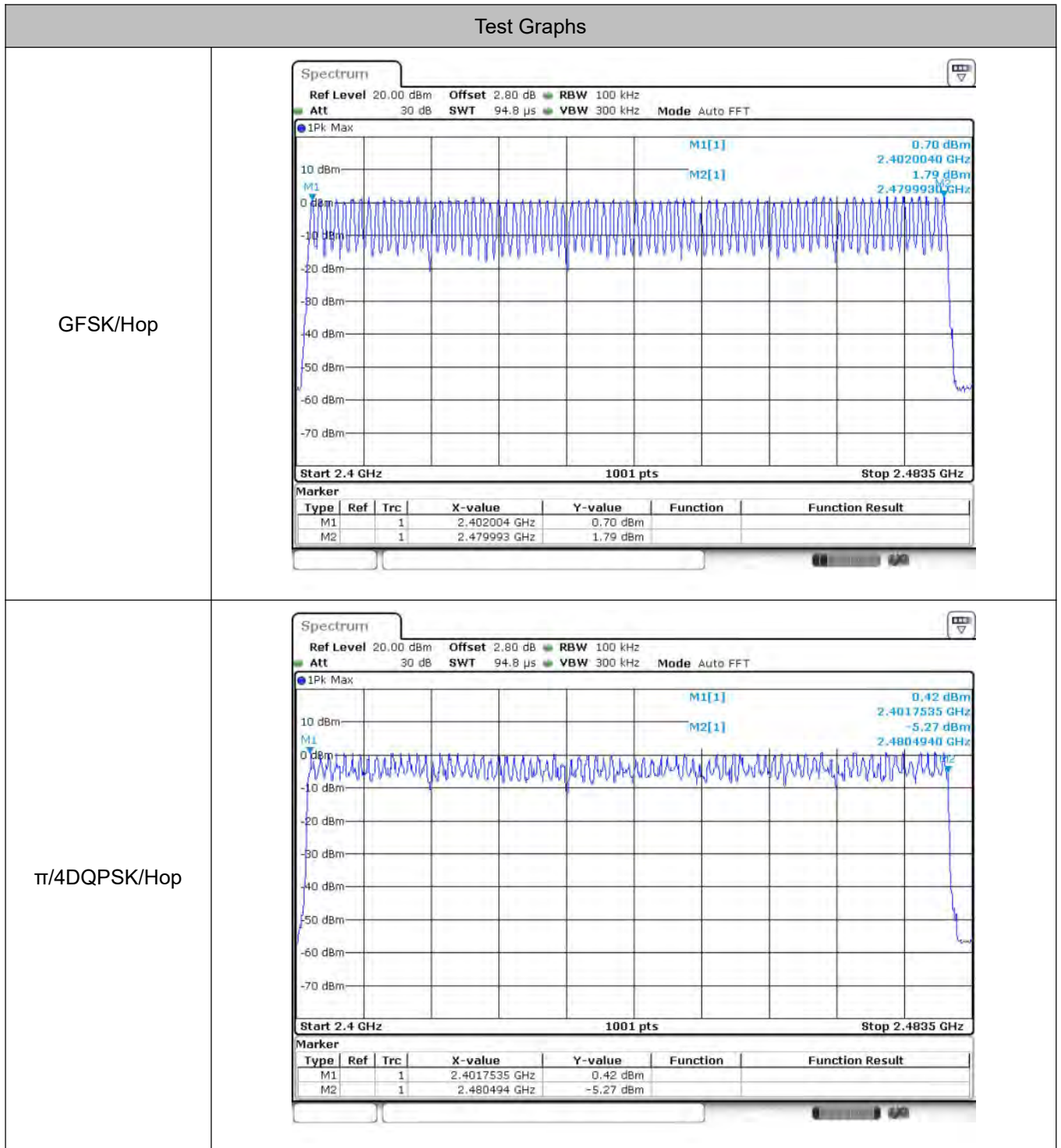


5 Hopping Channel Number

5.1 Test Result

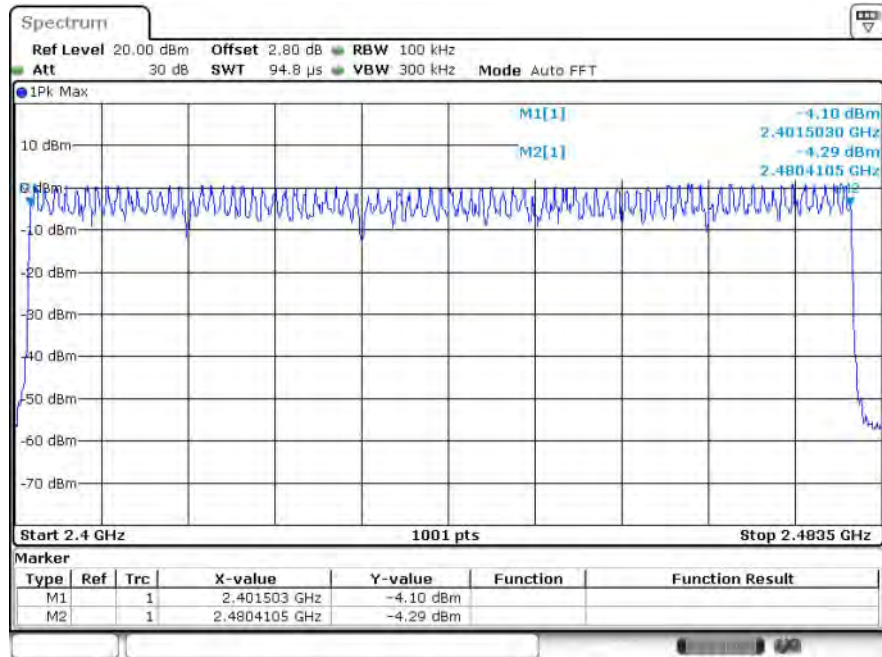
Mode	Channel.	Number of Hopping Channel [N]	Limit [N]	Verdict
GFSK	Hop	79	≥ 15	PASS
$\pi/4$ DQPSK	Hop	79	≥ 15	PASS
8DPSK	Hop	79	≥ 15	PASS

5.2 Test Graphs





8DPSK/Hop

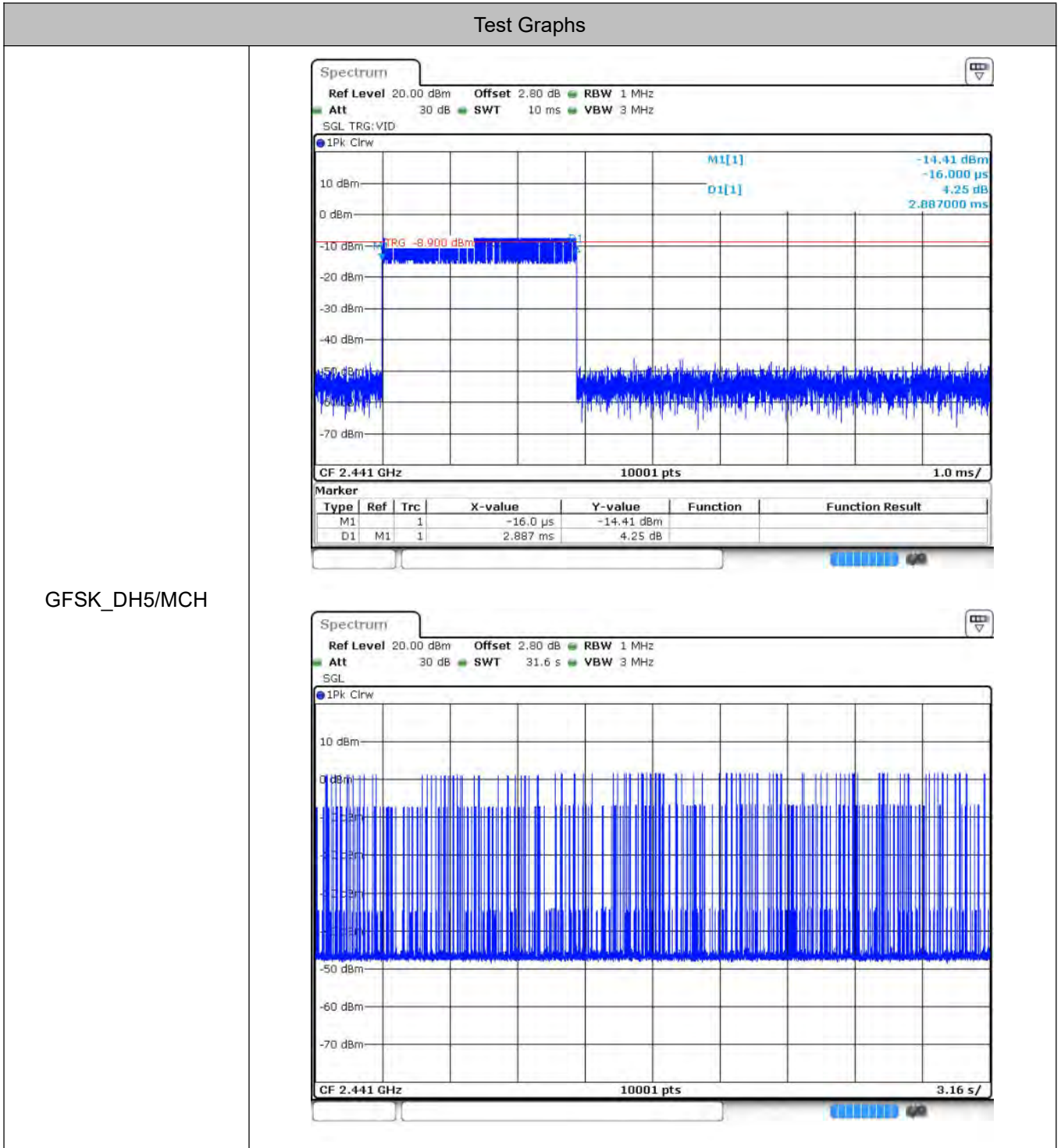


6 Dwell Time

6.1 Test Result

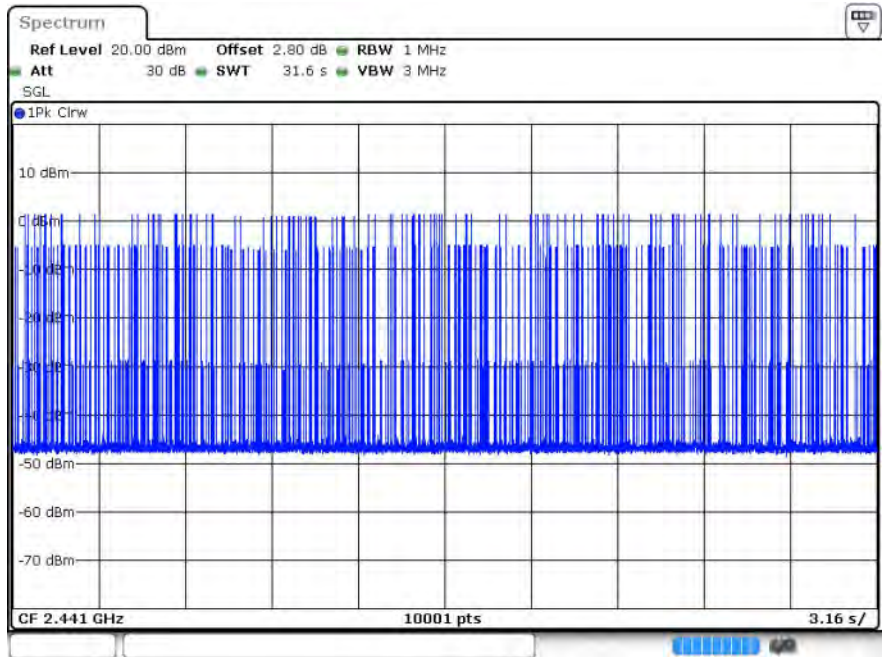
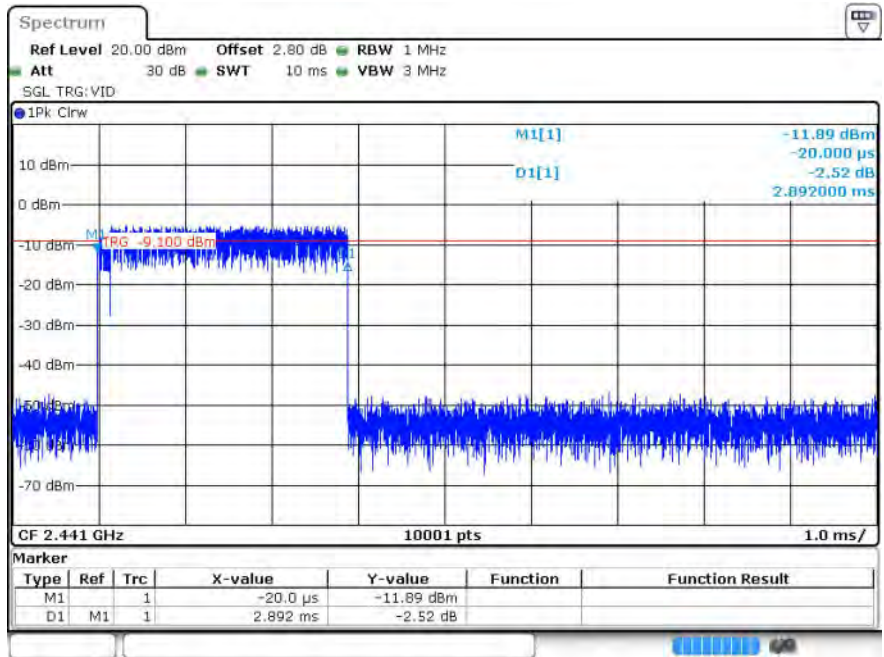
Mode	Packet	Channel	Burst Width [ms/hop/ch]	Total Hops[hop*ch]	Dwell Time[ms]	Limit [s]	Verdict
GFSK	DH5	MCH	2.887	111	320.457	0.4	Pass
$\pi/4$ DQPSK	2DH5	MCH	2.892	110	318.12	0.4	Pass
8DPSK	3DH5	MCH	2.894	102	295.188	0.4	Pass

6.2 Test Graphs

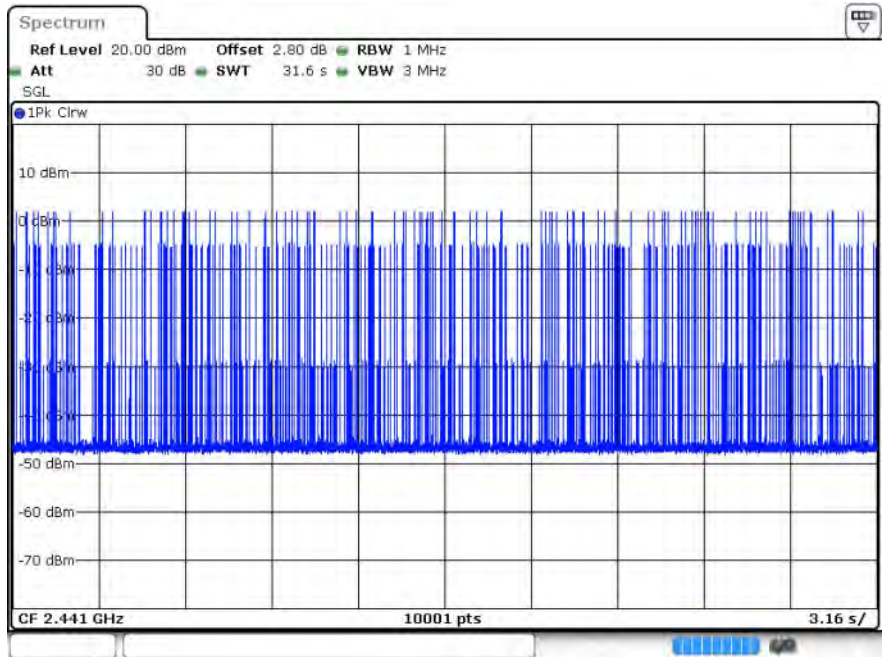
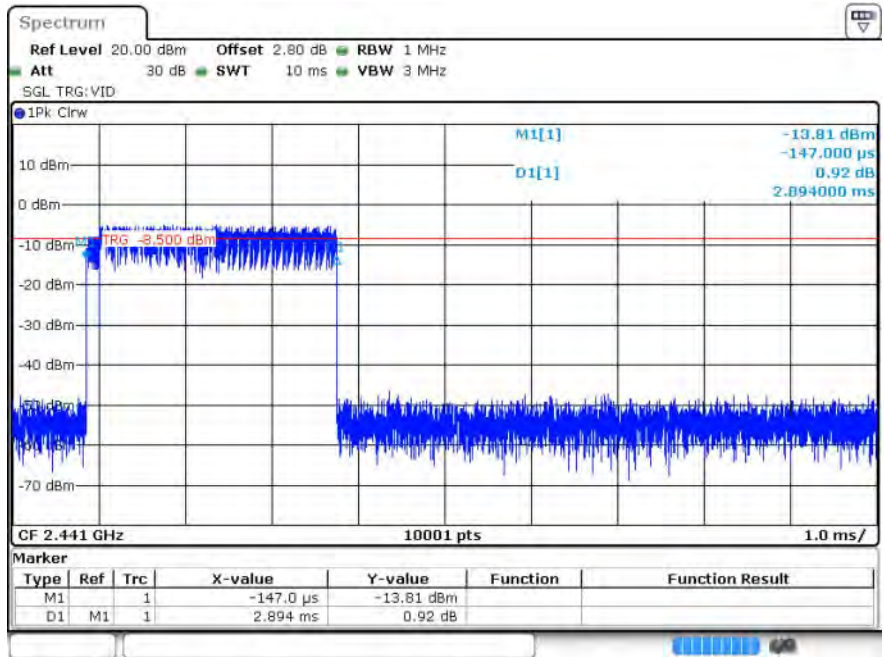




$\pi/4$ DQPSK
_2DH5/MCH



8DPSK_3DH5/MCH



7 RF Conducted Spurious Emissions

7.1 Test Result

Mode	Channel	Max. Level [dBc]	Limit [dBc]	Verdict
GFSK	LCH	-42.47	-20	Pass
	MCH	-41.02	-20	Pass
	HCH	-41.76	-20	Pass
$\pi/4$ DQPSK	LCH	-38.54	-20	Pass
	MCH	-37.18	-20	Pass
	HCH	-38.58	-20	Pass
8DPSK	LCH	-38.35	-20	Pass
	MCH	-37.91	-20	Pass
	HCH	-38.28	-20	Pass

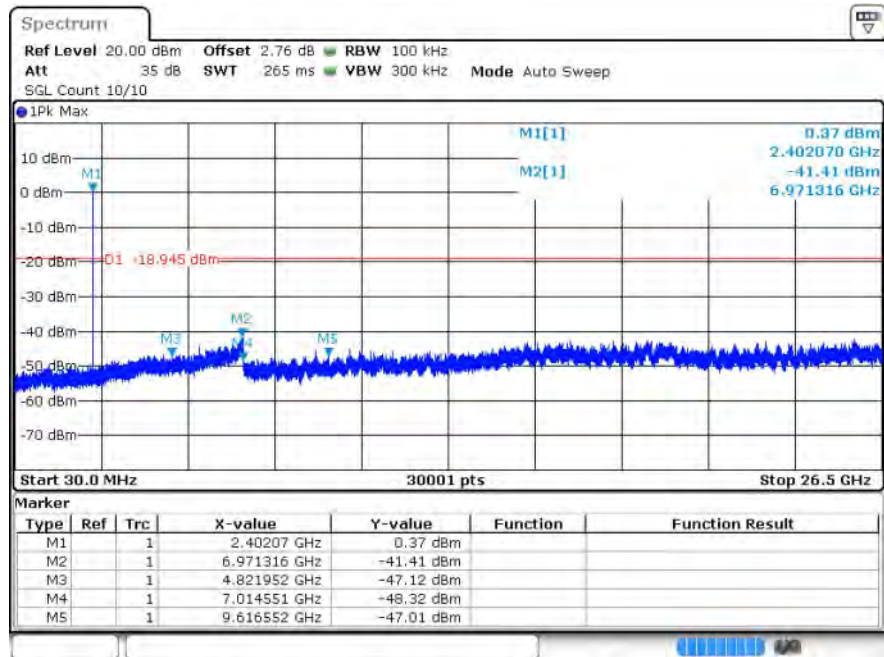
7.2 Test Graphs

GFSK_LCH_Graphs

Pref



Puw

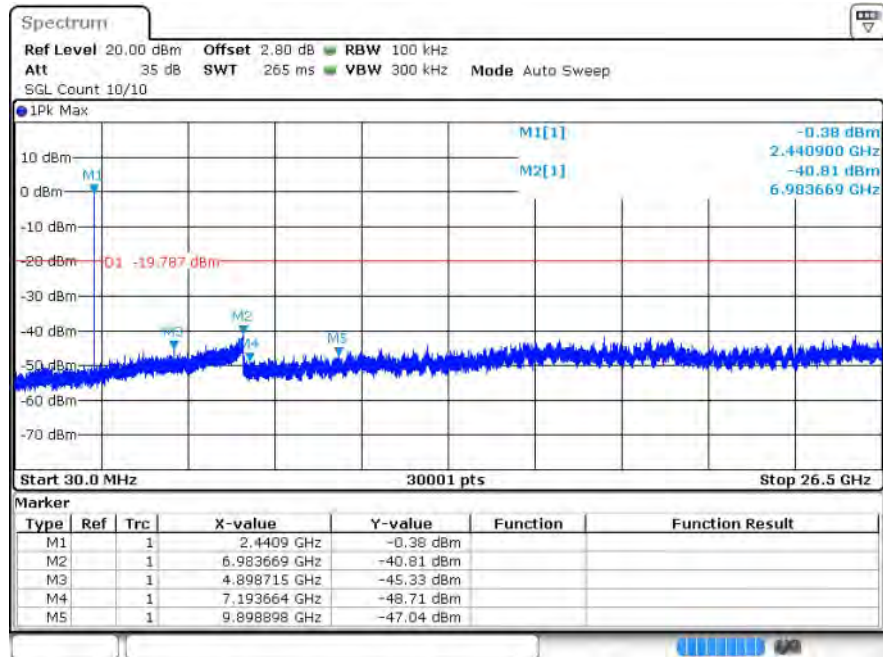


GFSK_MCH_Graphs

Pref



Puw

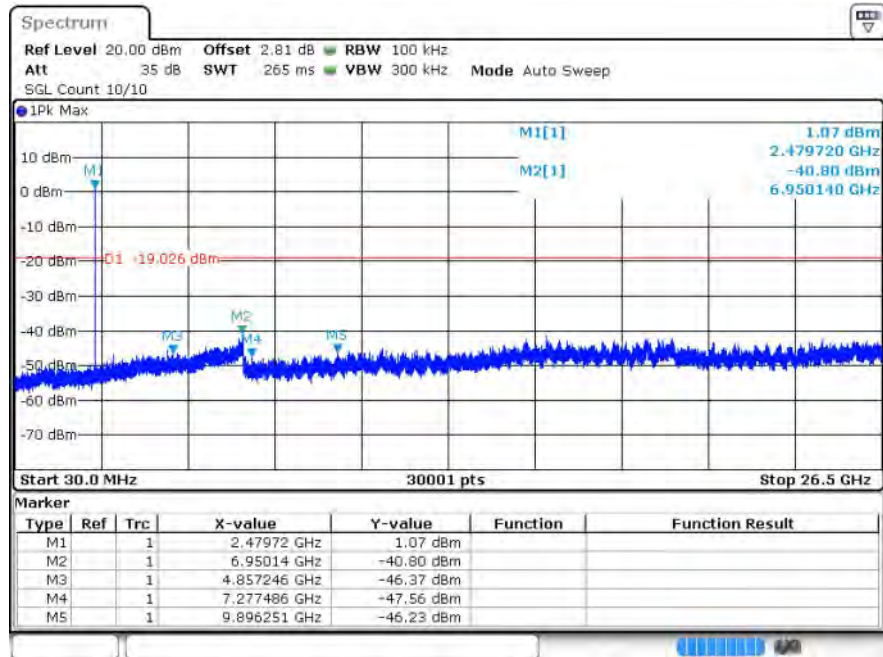


GFSK_HCH_Graphs

Pref

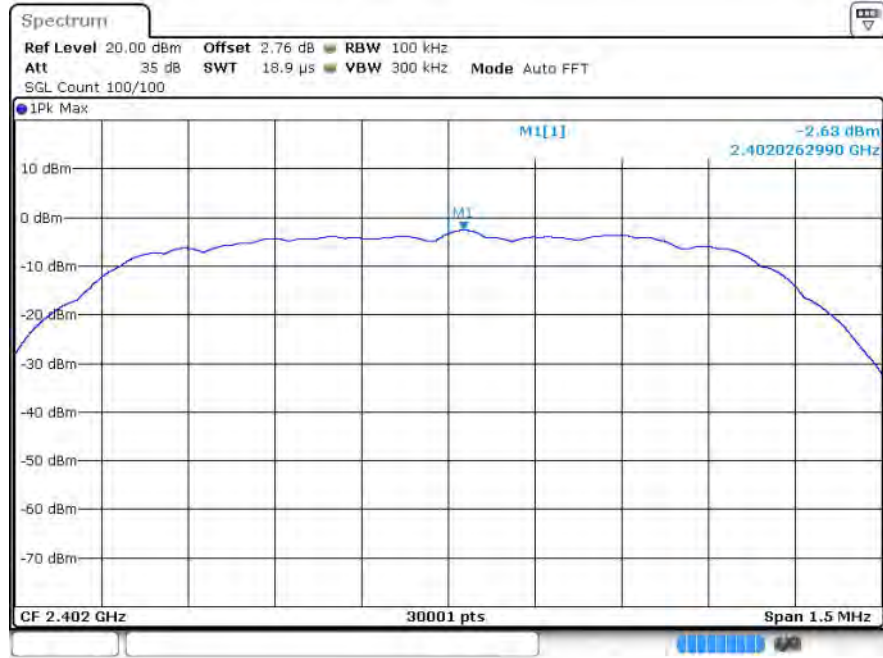


Puw

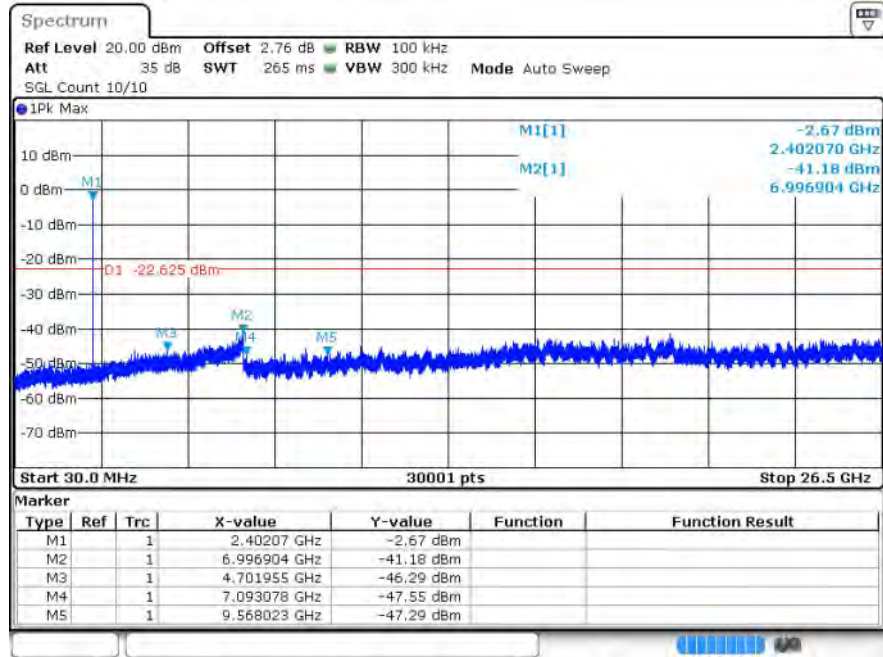


$\pi/4$ DQPSK_LCH_Graphs

Pref

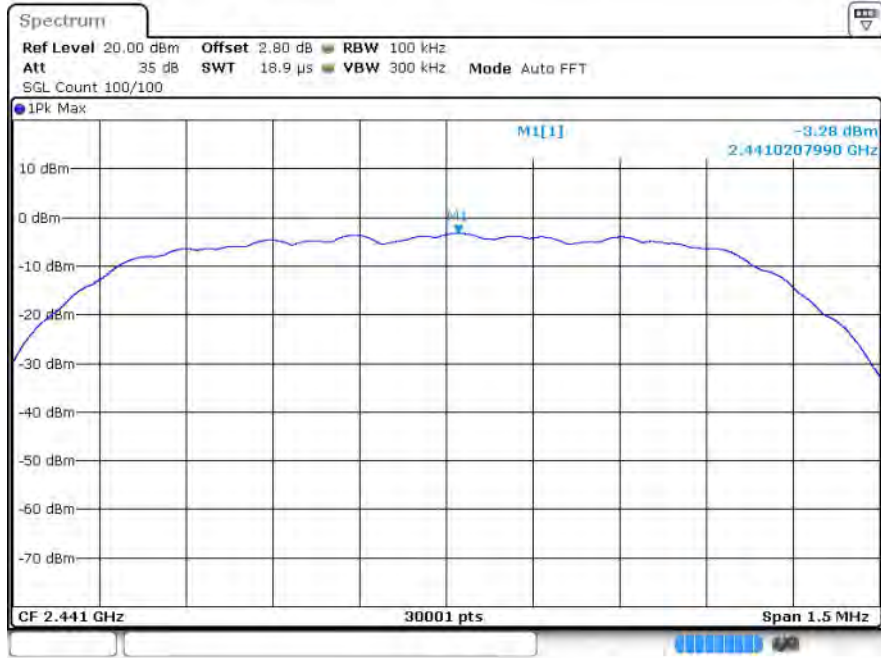


Puw

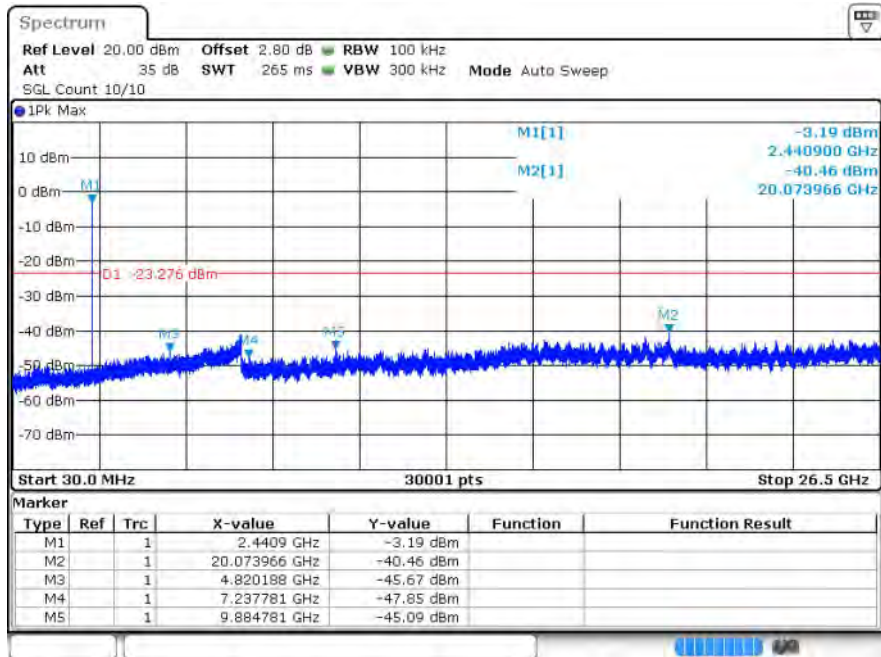


π /4DQPSK_MCH_Graphs

Pref

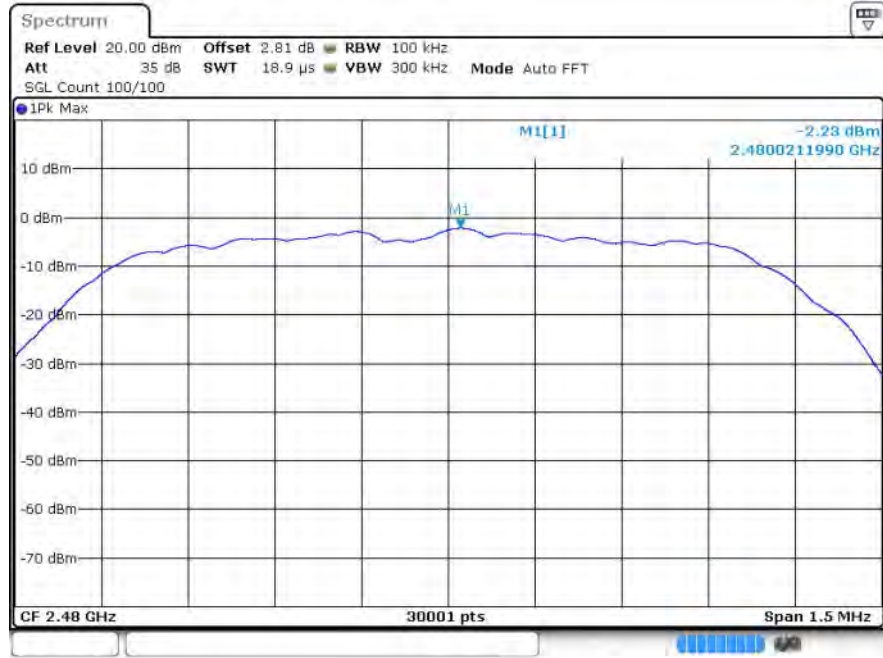


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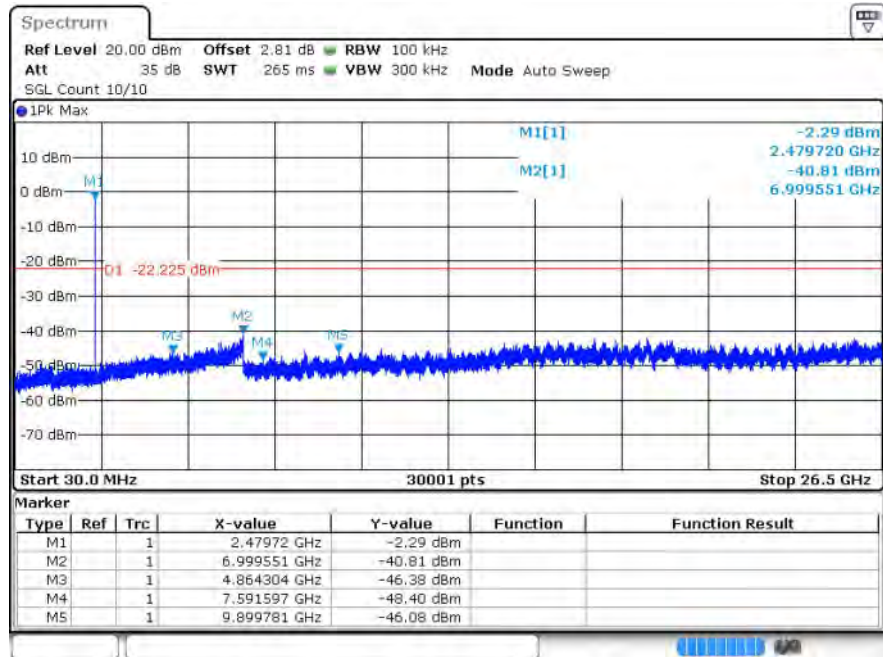


$\pi/4$ DQPSK_HCH_Graphs

Pref

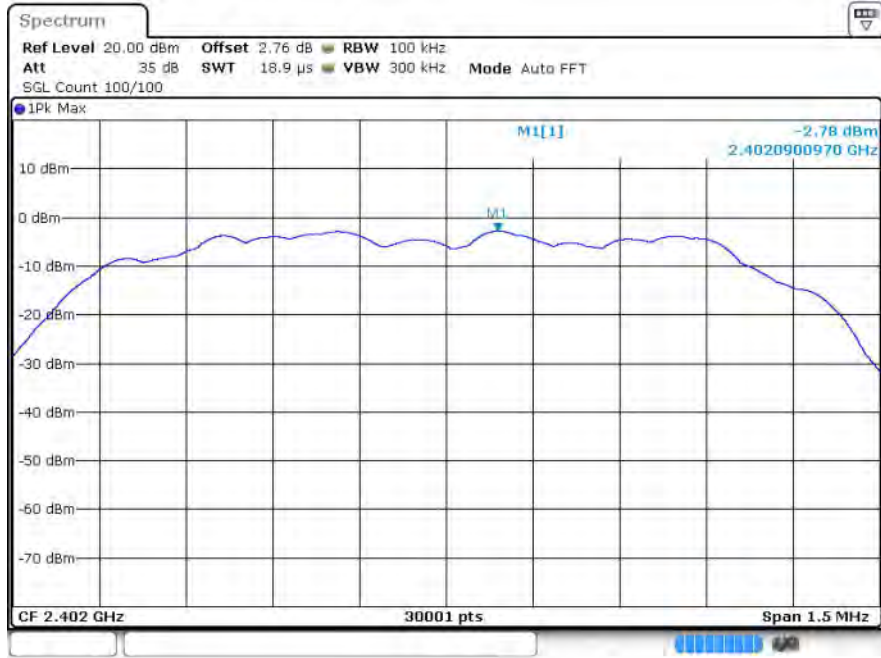


Puw

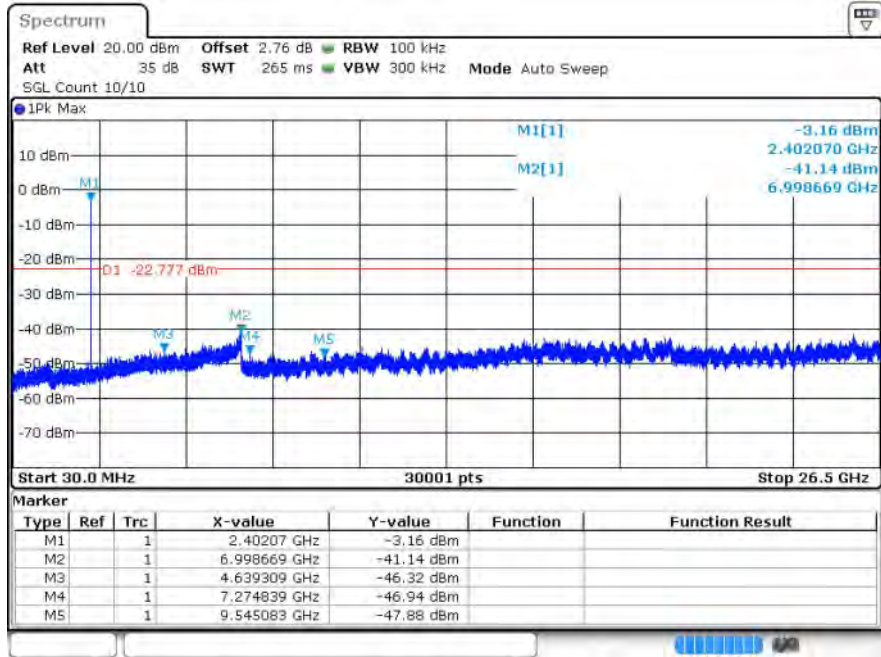


8DPSK_LCH_Graphs

Pref

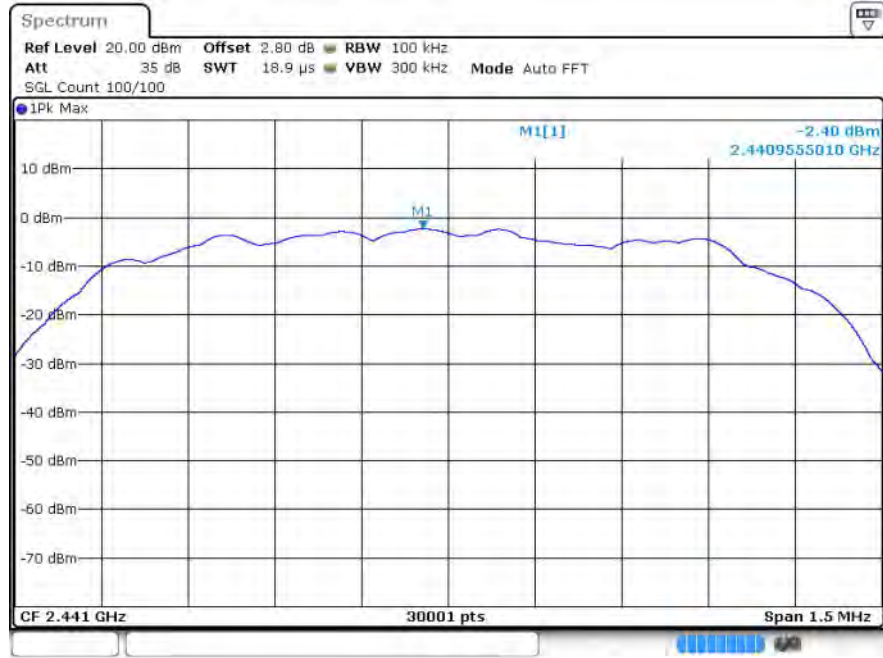


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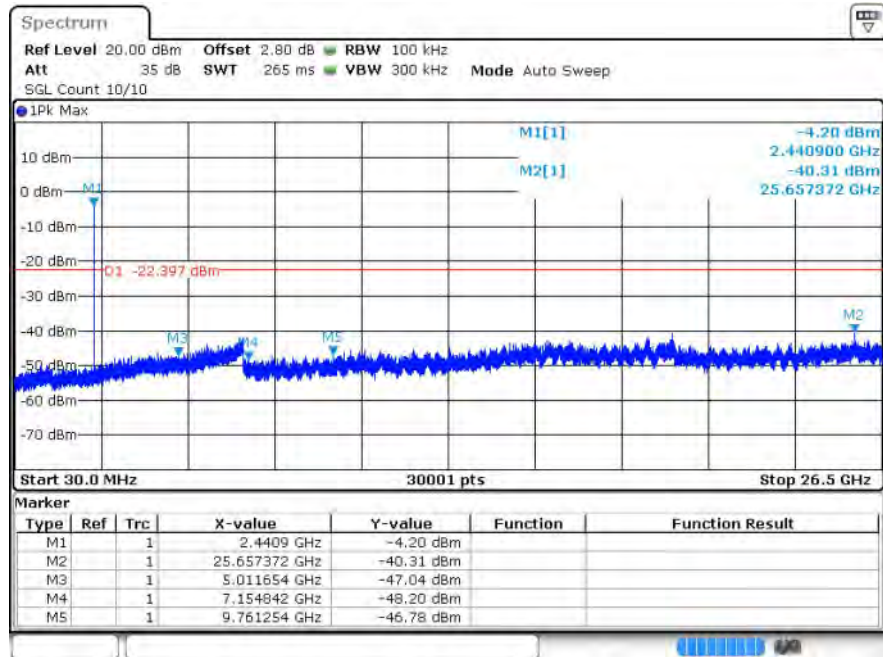


8DPSK_MCH_Graphs

Pref

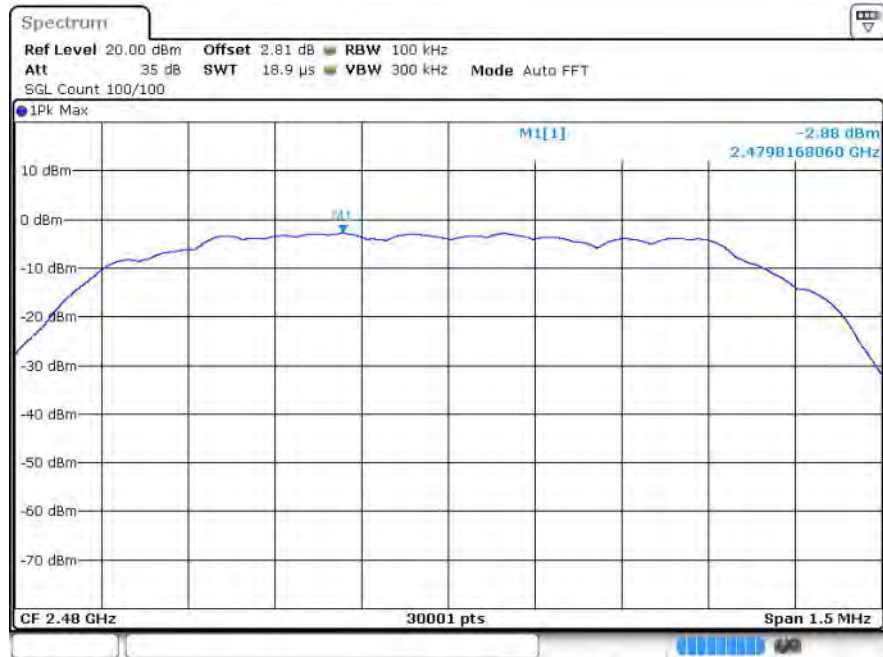


Puw

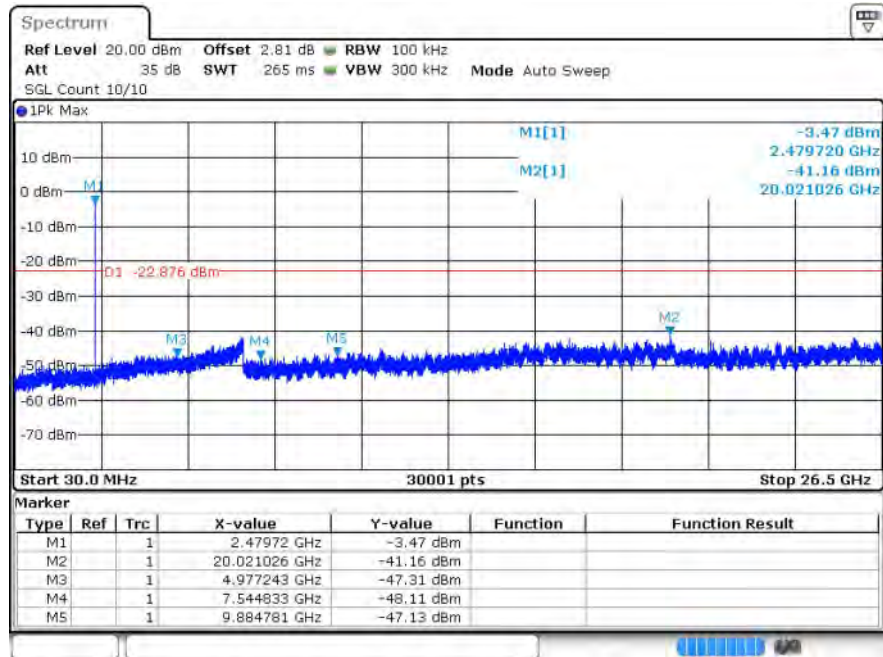


8DPSK_HCH_Graphs

Pref



Puw

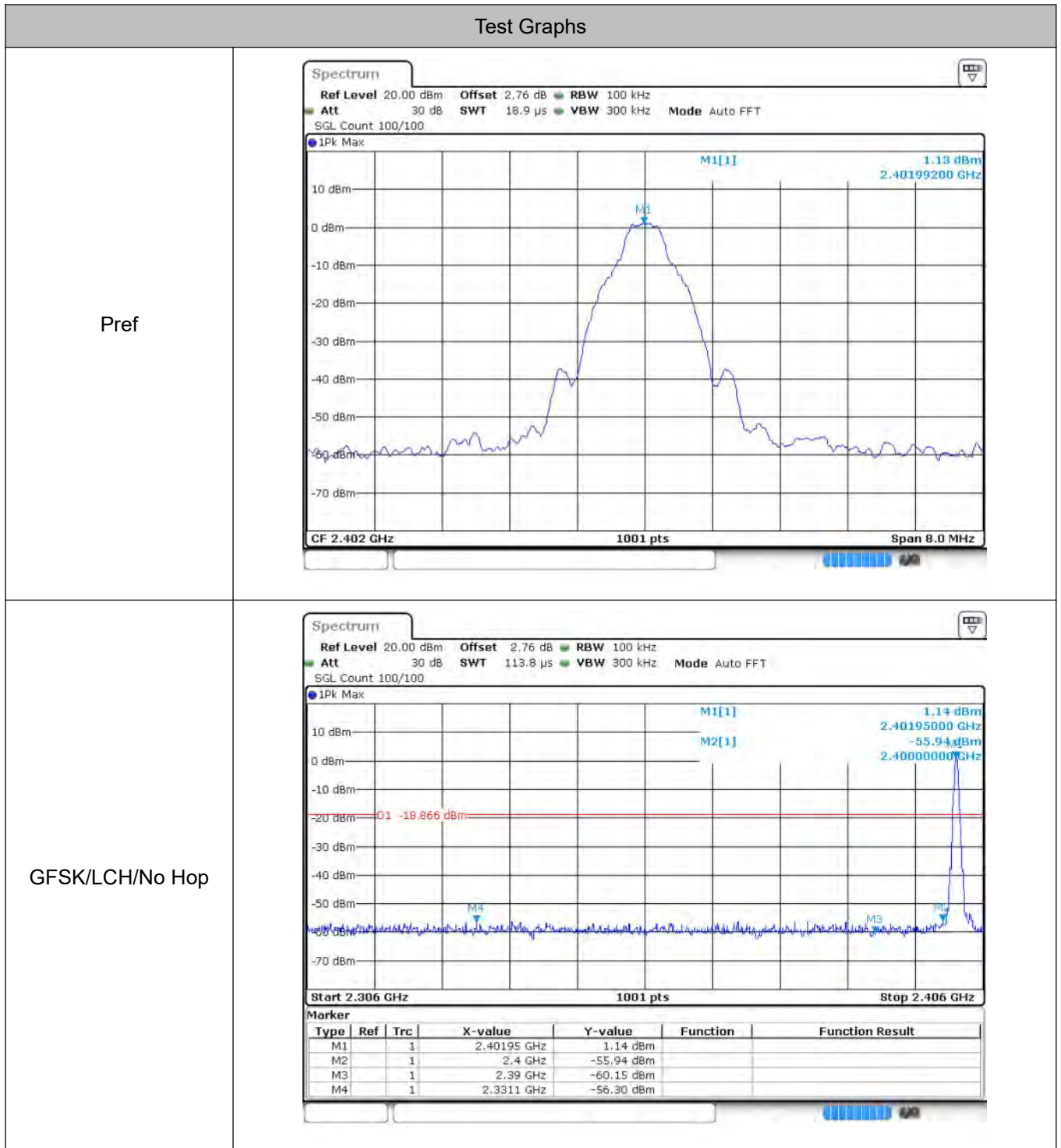


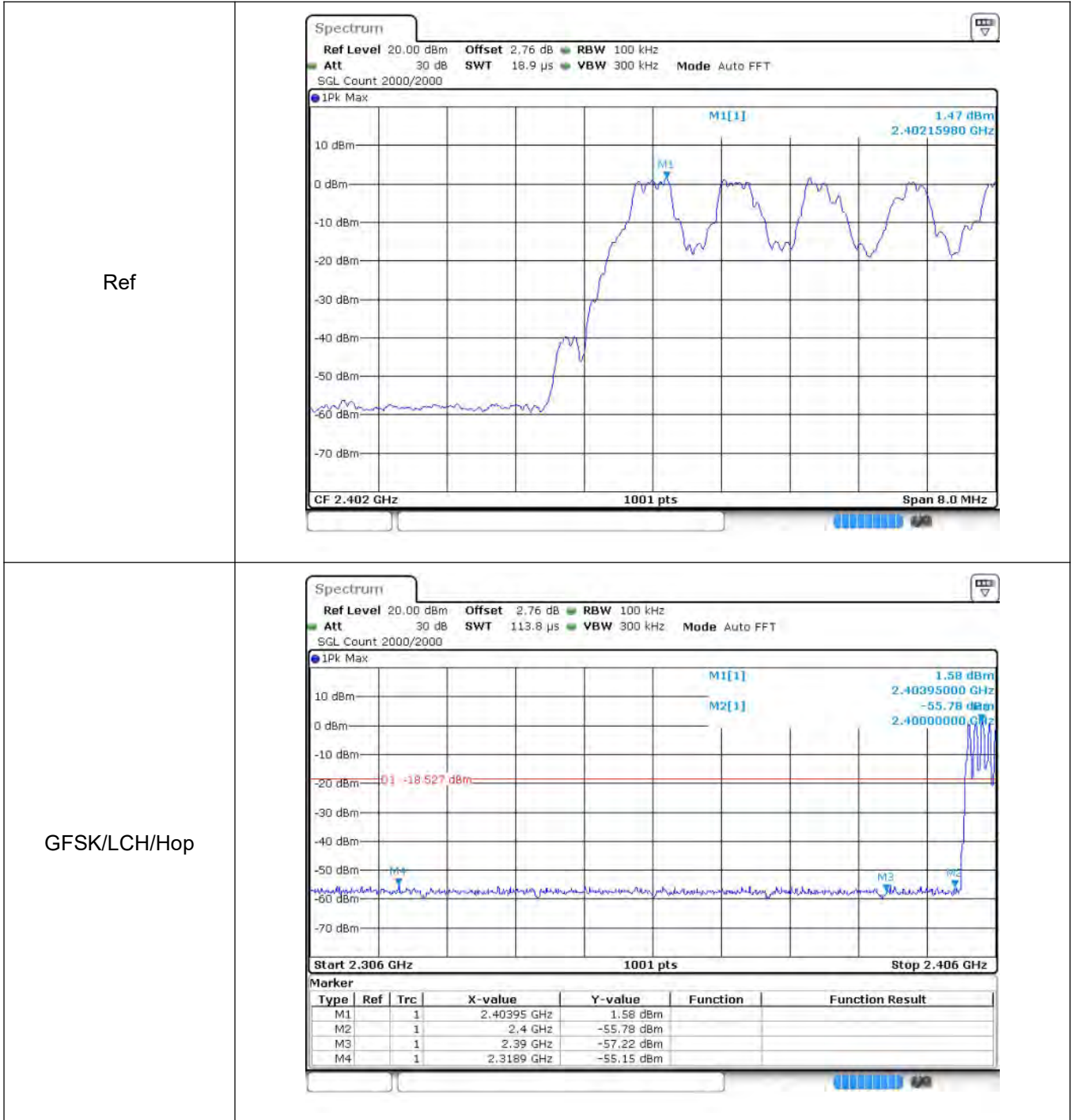
8 Band-edge for RF Conducted Emissions

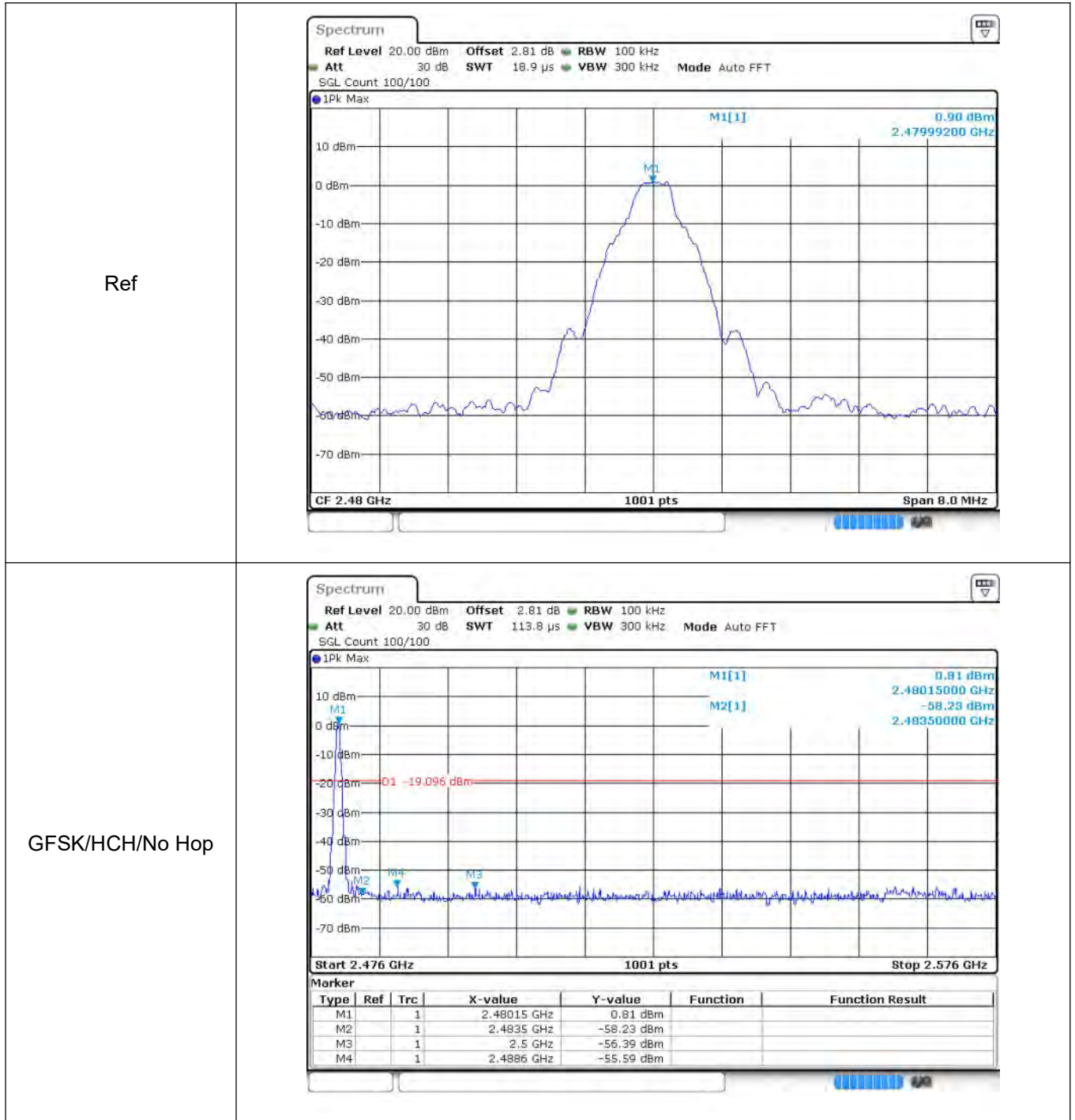
8.1 Test Result

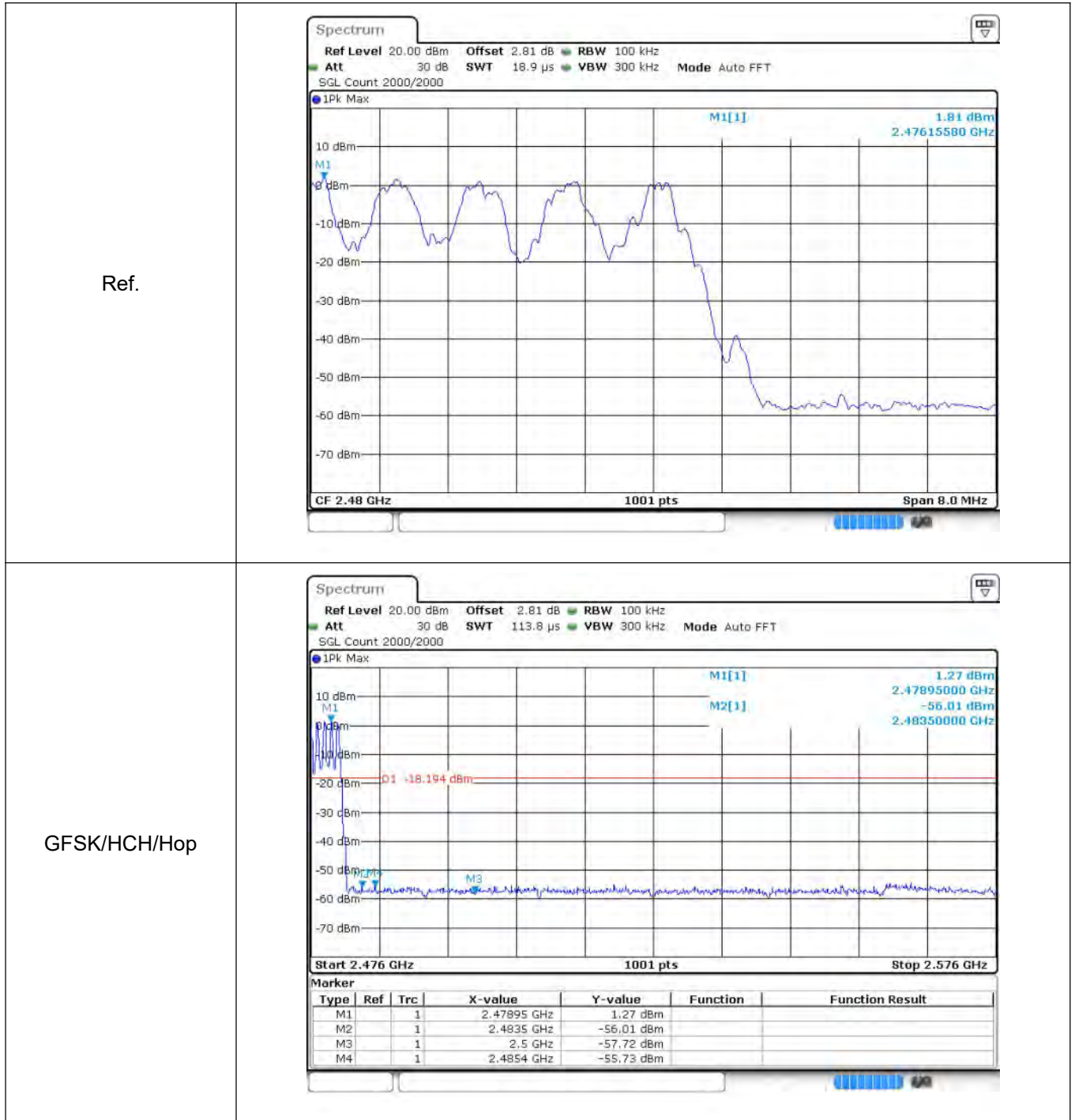
Mode	Channel	Carrier Frequency [MHz]	Frequency Hopping	Max Spurious Level [dBc]	Limit [dBc]	Verdict
GFSK	LCH	2402	Off	-57.42	-20	Pass
			On	-56.61	-20	Pass
	HCH	2480	Off	-56.49	-20	Pass
			On	-57.53	-20	Pass
$\pi/4$ DQPSK	LCH	2402	Off	-51.9	-20	Pass
			On	-55.67	-20	Pass
	HCH	2480	Off	-53.5	-20	Pass
			On	-55.93	-20	Pass
8DPSK	LCH	2402	Off	-53.5	-20	Pass
			On	-54.96	-20	Pass
	HCH	2480	Off	-53.62	-20	Pass
			On	-56.28	-20	Pass

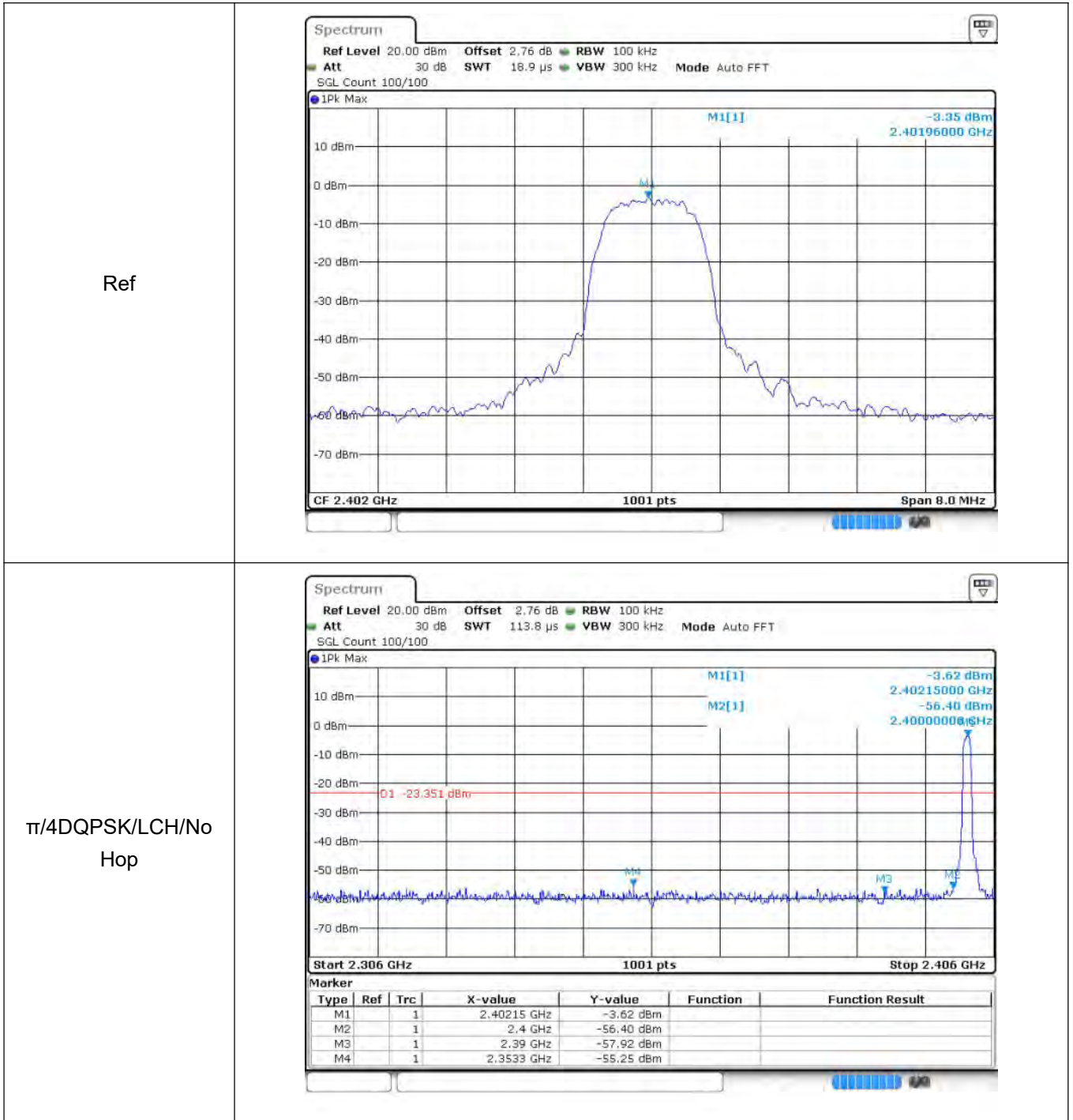
8.2 Test Graphs

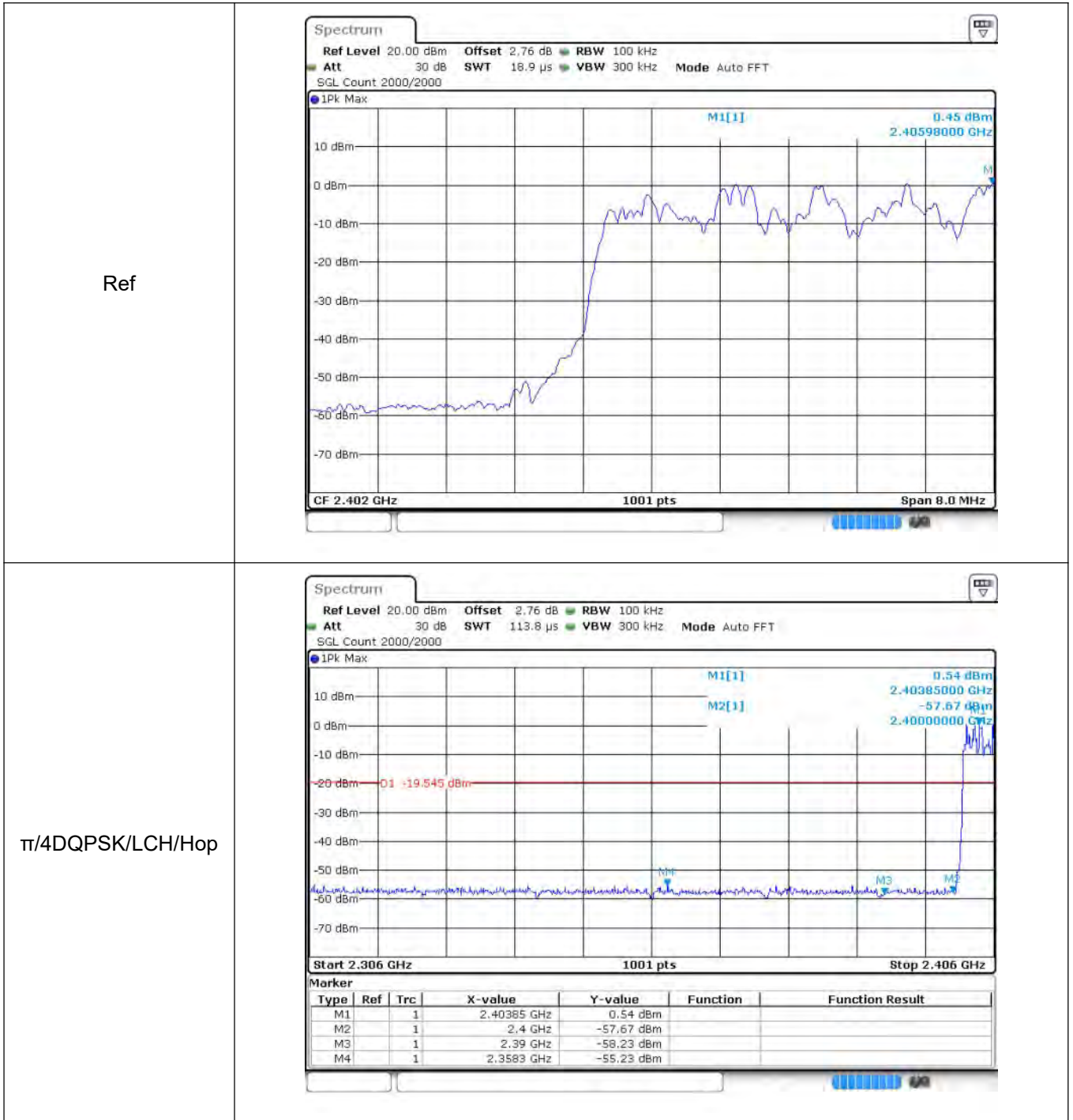


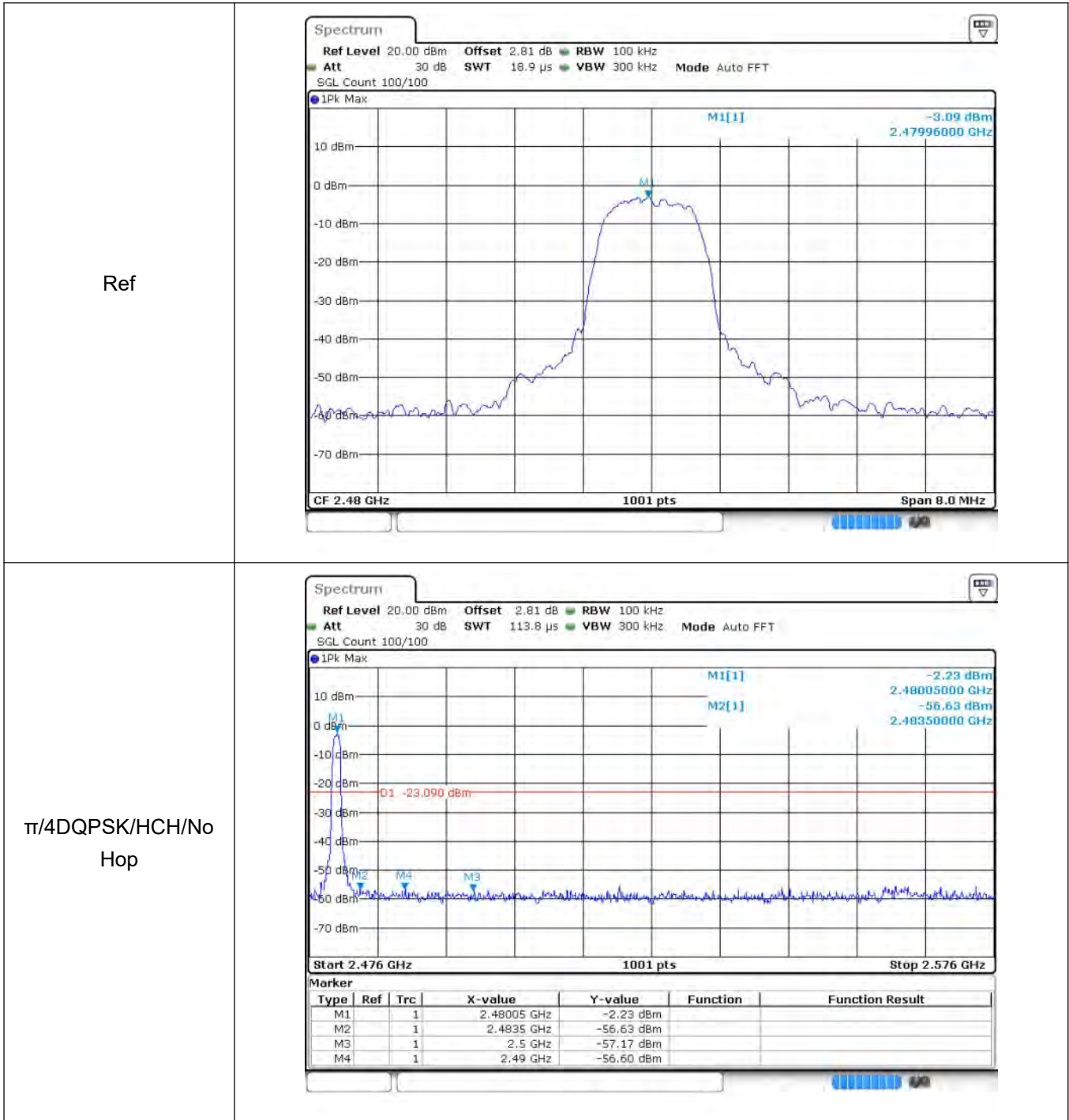


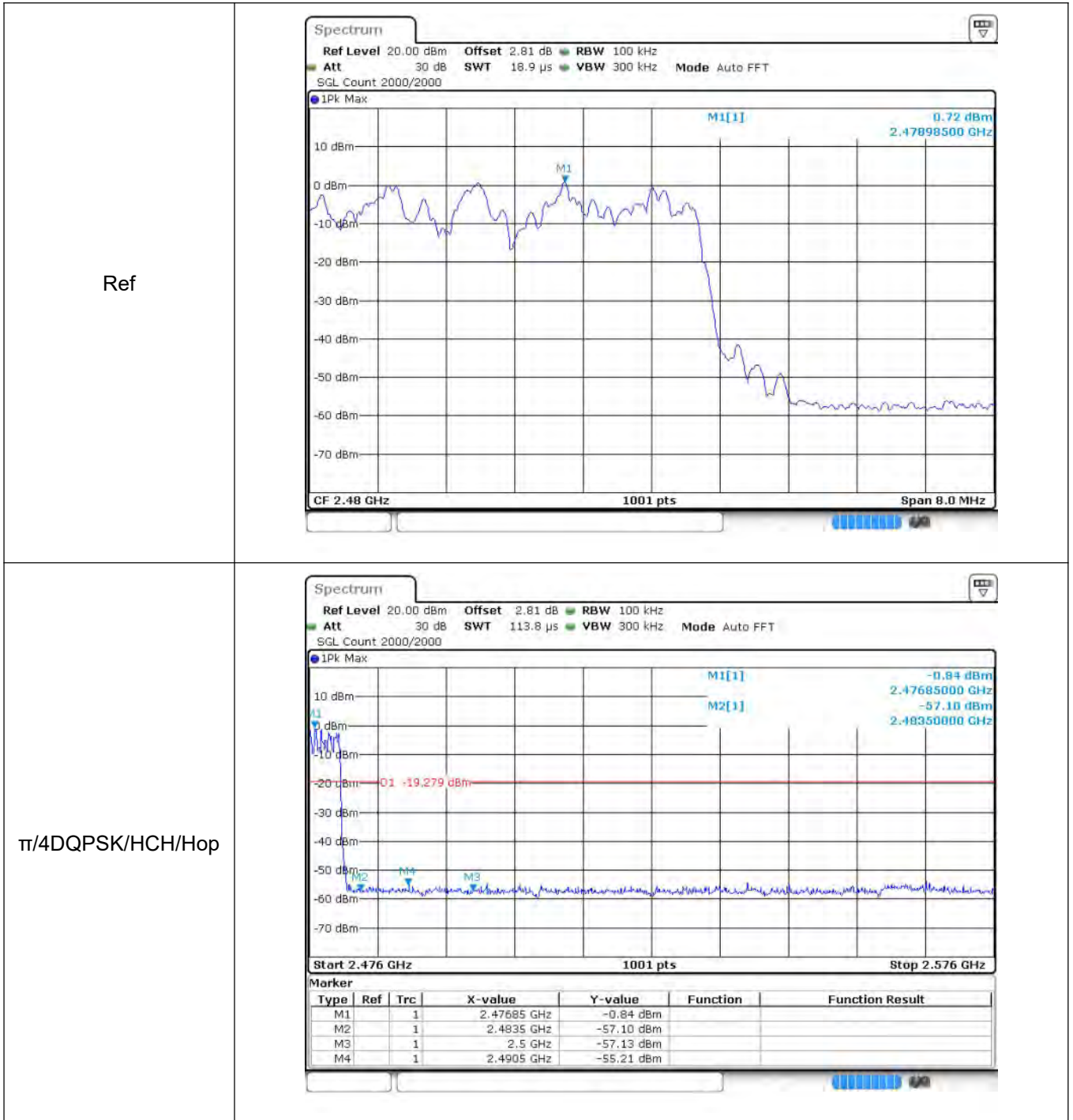


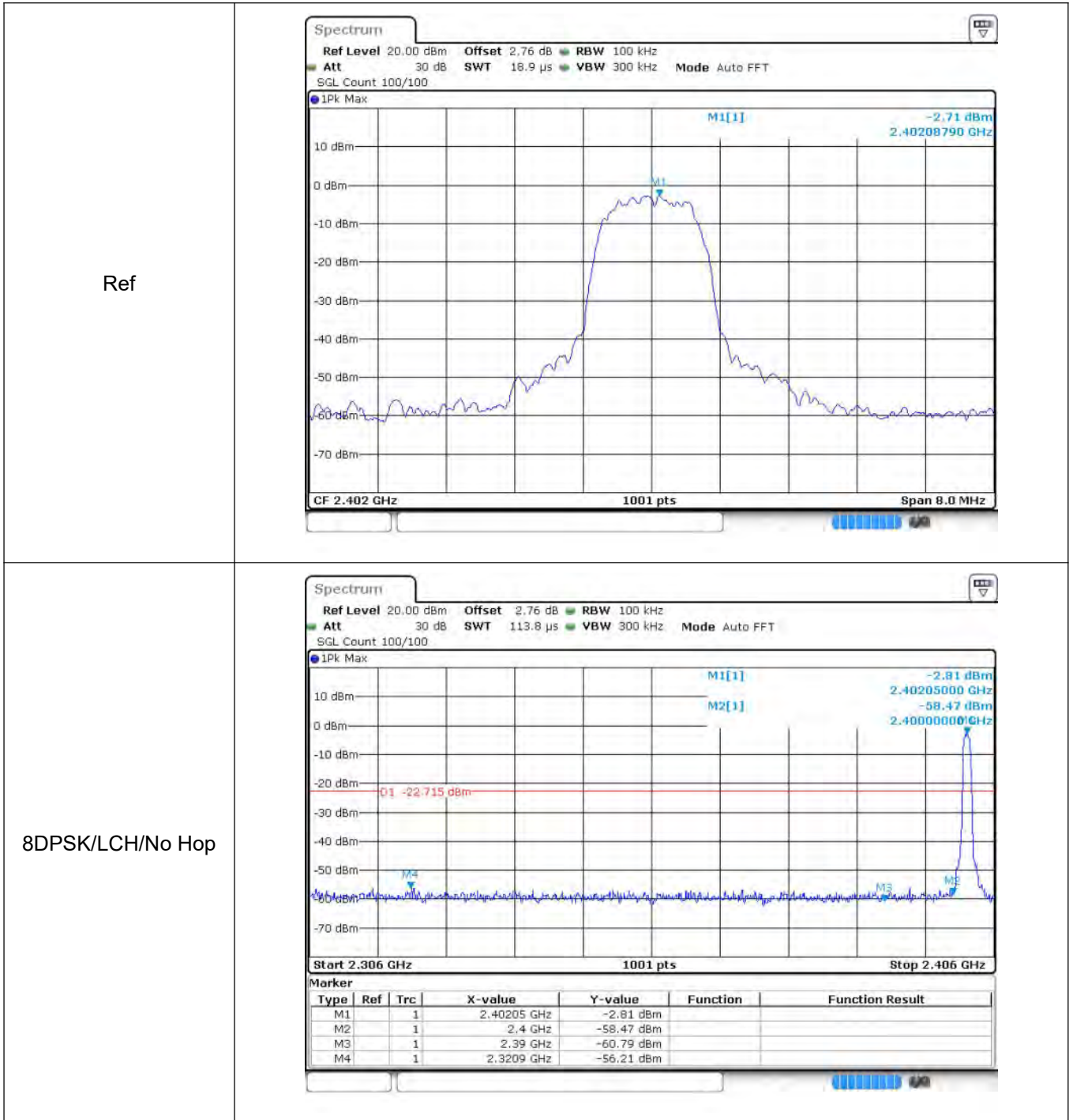


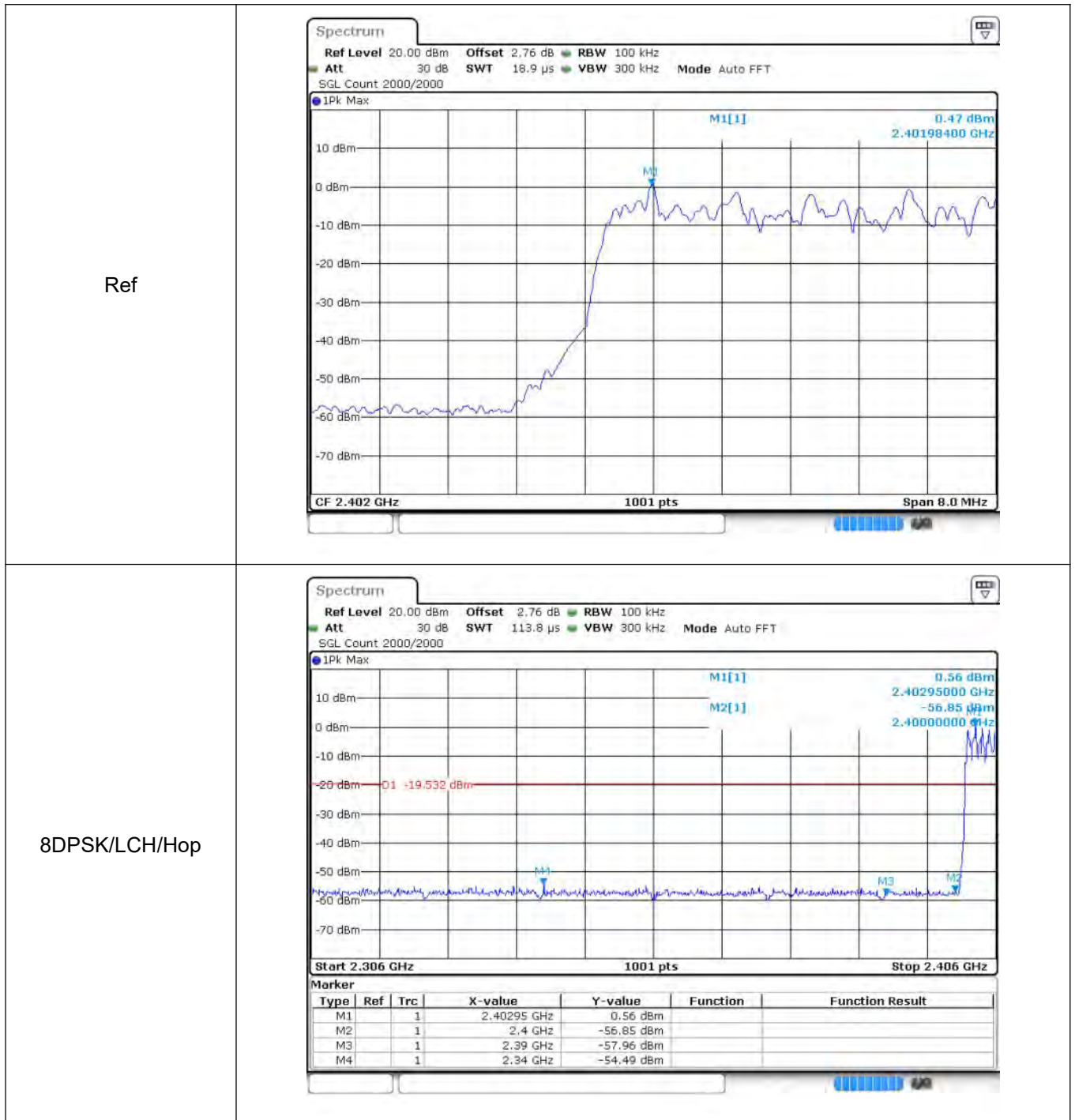


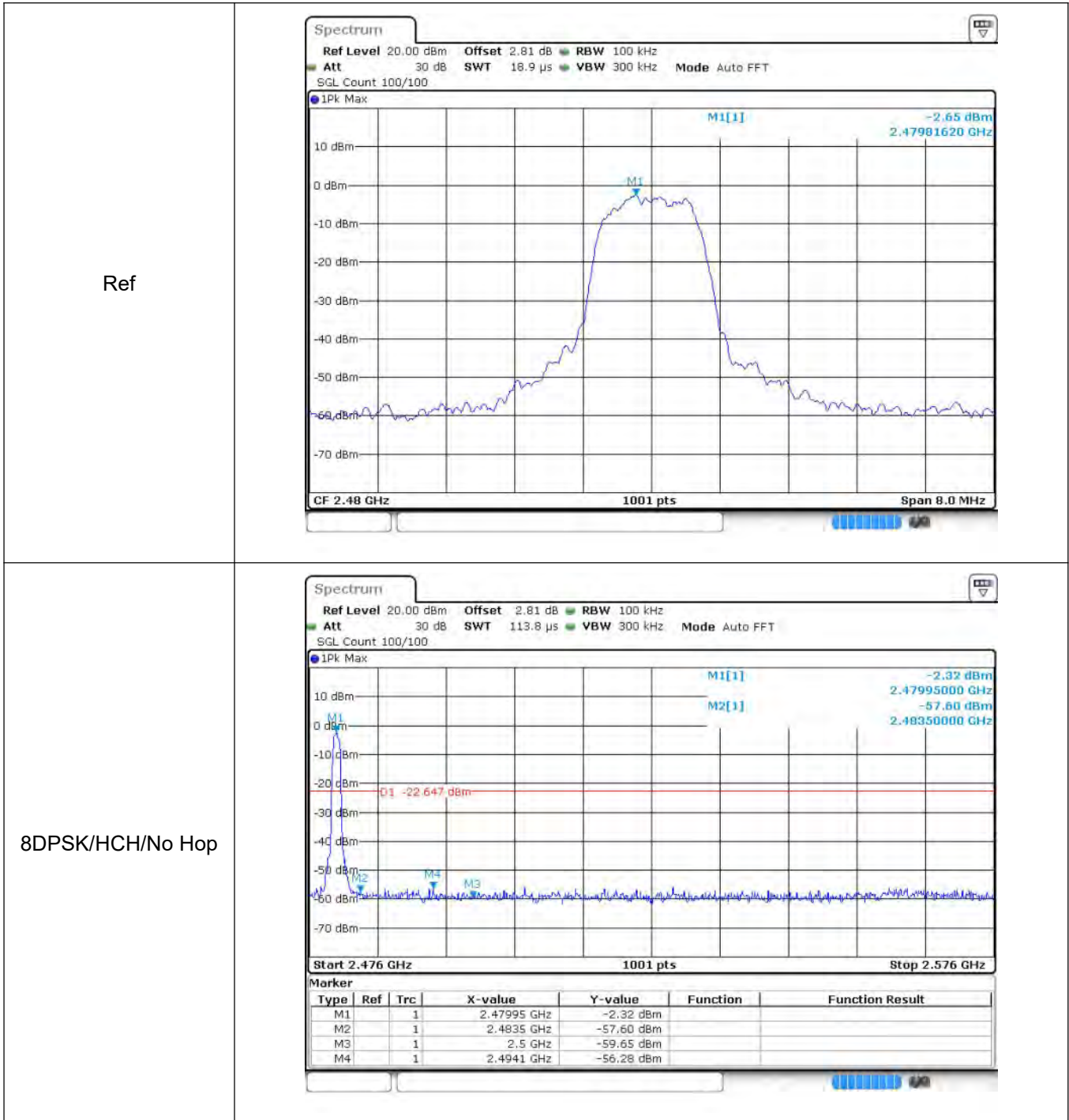


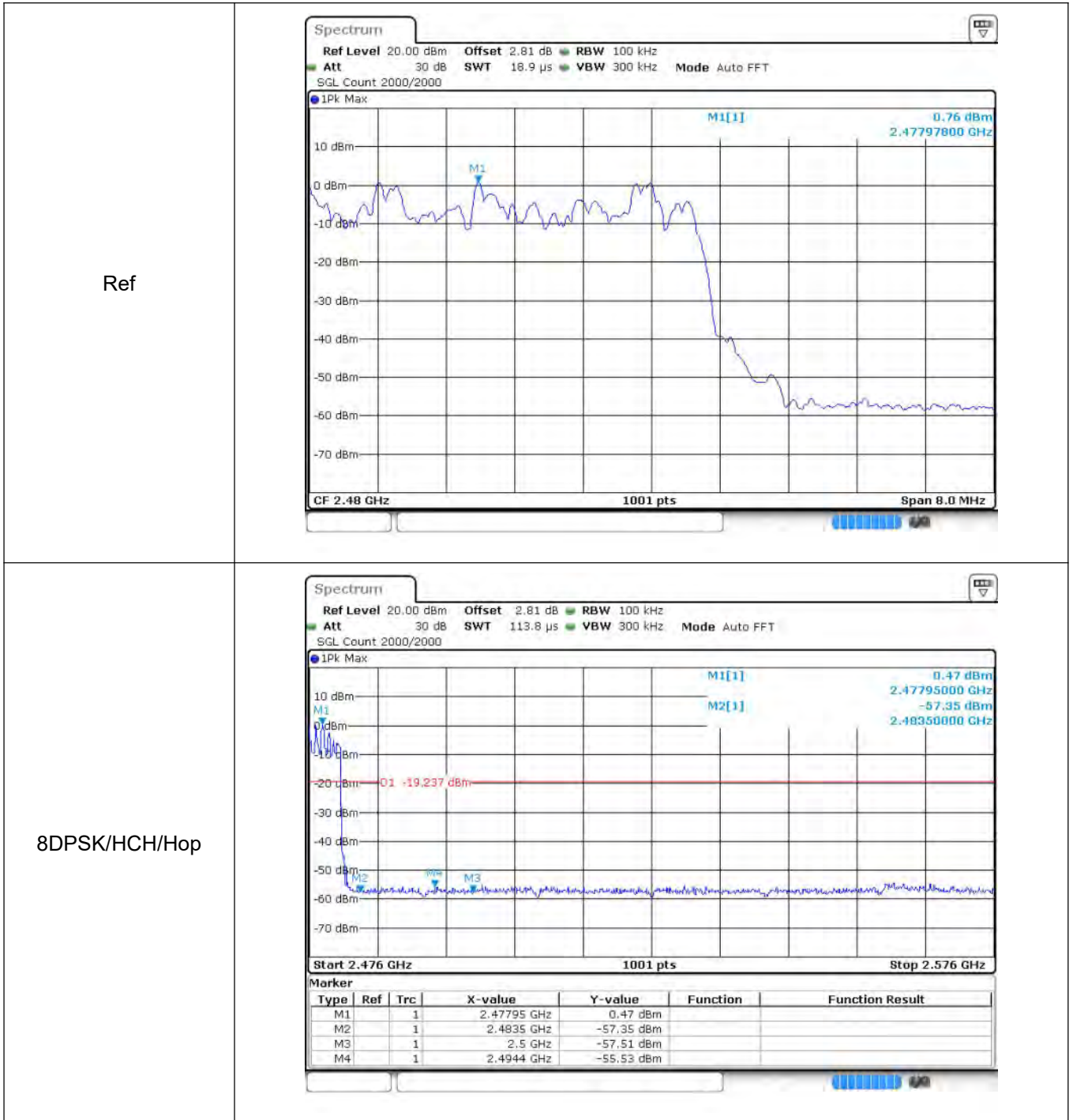












9 Restrict-band band-edge measurements

9.1 Test Result

Test Mode	Hopping	Freq.	Power [dBm]	Gain	Duty Factor	E [dBuV/m]	Detector	Limit [dBuV/m]	Verdict
GFSK	Off	2310.0	-49.96	2.26	-	47.53	PEAK	74	Pass
	Off	2310.0	-57.18	2.26	5.06	45.37	AV	54	Pass
	Off	2345.328	-47.17	2.26	-	50.32	PEAK	74	Pass
	Off	2337.936	-54.33	2.26	5.06	48.22	AV	54	Pass
	Off	2390.0	-50.09	2.26	-	47.4	PEAK	74	Pass
	Off	2390.0	-56.77	2.26	5.06	45.78	AV	54	Pass
	Off	2483.5	-48.79	2.26	-	48.7	PEAK	74	Pass
	Off	2483.5	-56.49	2.26	5.01	46.01	AV	54	Pass
	Off	2491.216	-47.49	2.26	-	50	PEAK	74	Pass
	Off	2487.664	-56	2.26	5.01	46.5	AV	54	Pass
	Off	2500.0	-49.45	2.26	-	48.04	PEAK	74	Pass
	Off	2500.0	-56.25	2.26	5.01	46.25	AV	54	Pass
$\pi/4$ DQPSK	Off	2310.0	-51.01	2.26	-	46.48	PEAK	74	Pass
	Off	2310.0	-56.5	2.26	4.95	45.94	AV	54	Pass
	Off	2343.024	-46.51	2.26	-	50.98	PEAK	74	Pass
	Off	2340.144	-54.42	2.26	4.95	48.02	AV	54	Pass
	Off	2390.0	-50.39	2.26	-	47.1	PEAK	74	Pass
	Off	2390.0	-57.03	2.26	4.95	45.41	AV	54	Pass
	Off	2483.5	-49.2	2.26	-	48.29	PEAK	74	Pass
	Off	2483.5	-56.63	2.26	4.95	45.81	AV	54	Pass
	Off	2489.872	-47.6	2.26	-	49.89	PEAK	74	Pass
	Off	2494.384	-56.08	2.26	4.95	46.36	AV	54	Pass
	Off	2500.0	-49.95	2.26	-	47.54	PEAK	74	Pass
	Off	2500.0	-57.49	2.26	4.95	44.95	AV	54	Pass
8DPSK	Off	2310.0	-49.57	2.26	-	47.92	PEAK	74	Pass
	Off	2310.0	-56.64	2.26	4.95	45.8	AV	54	Pass
	Off	2338.224	-46.41	2.26	-	51.08	PEAK	74	Pass
	Off	2338.704	-54.22	2.26	4.95	48.22	AV	54	Pass



Off	2390.0	-49.64	2.26	-	47.85	PEAK	74	Pass
Off	2390.0	-57.83	2.26	4.95	44.61	AV	54	Pass
Off	2483.5	-48.21	2.26	-	49.28	PEAK	74	Pass
Off	2483.5	-56.72	2.26	4.95	45.72	AV	54	Pass
Off	2488.432	-46.32	2.26	-	51.17	PEAK	74	Pass
Off	2496.16	-56.07	2.26	4.95	46.37	AV	54	Pass
Off	2500.0	-49.87	2.26	-	47.62	PEAK	74	Pass
Off	2500.0	-56.34	2.26	4.95	46.1	AV	54	Pass

9.2 Test Graphs

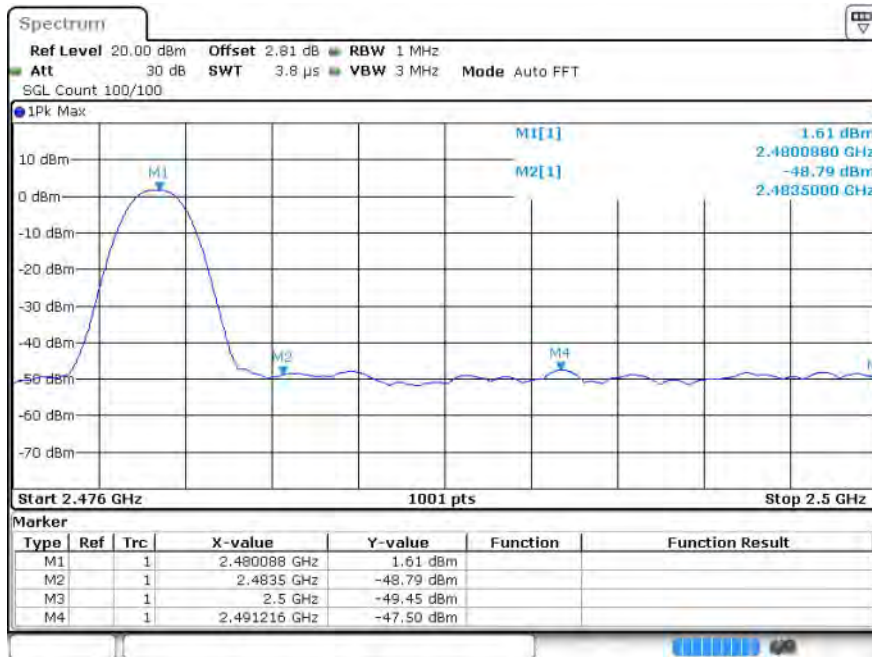
Restrict-band band-edge measurements_Hopping Off_ GFSK_PEAK (Low Channel)



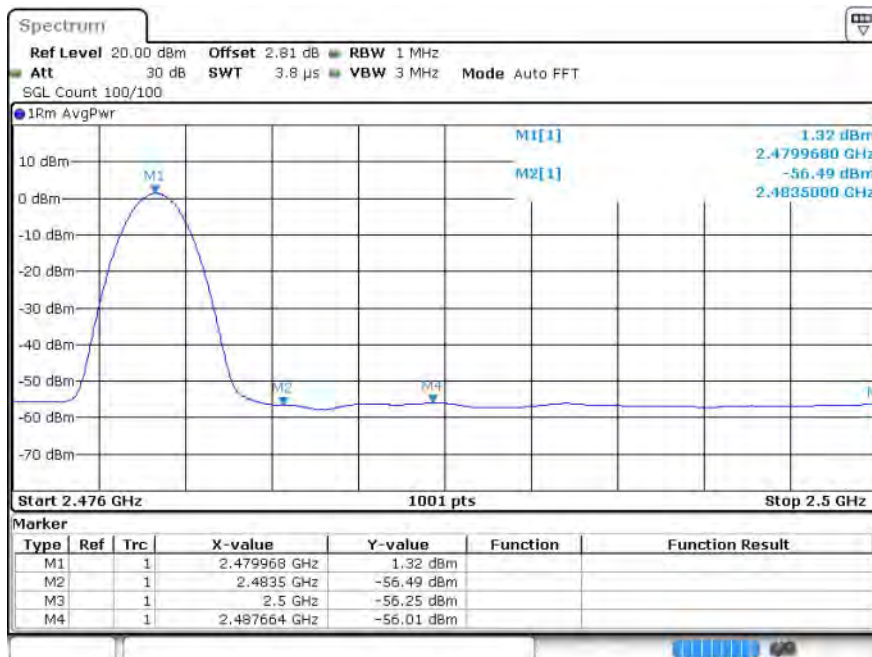
Restrict-band band-edge measurements_Hopping Off_ GFSK_Average (Low Channel)



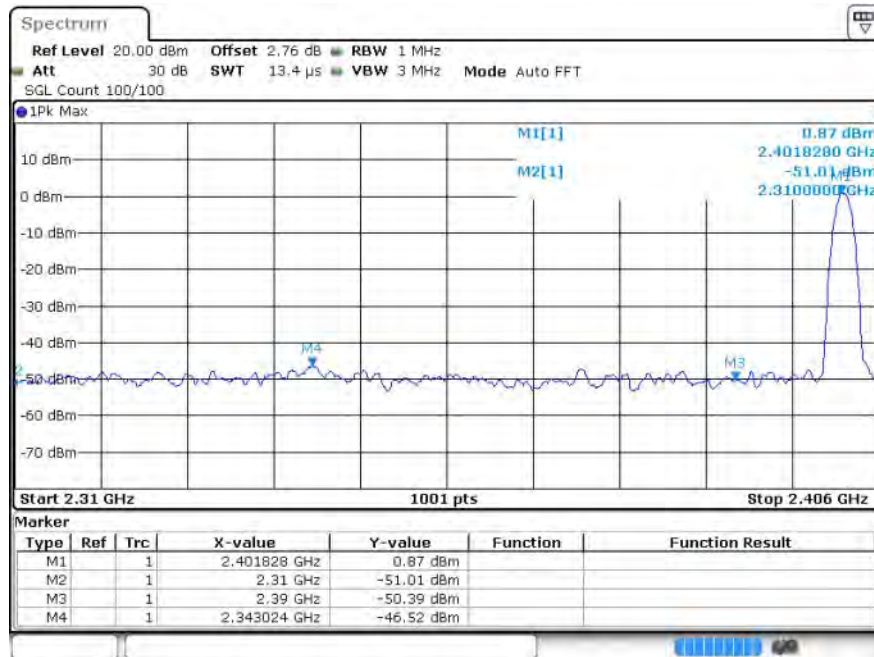
Restrict-band band-edge measurements_Hopping Off_GFSK_PEAK (High Channel)



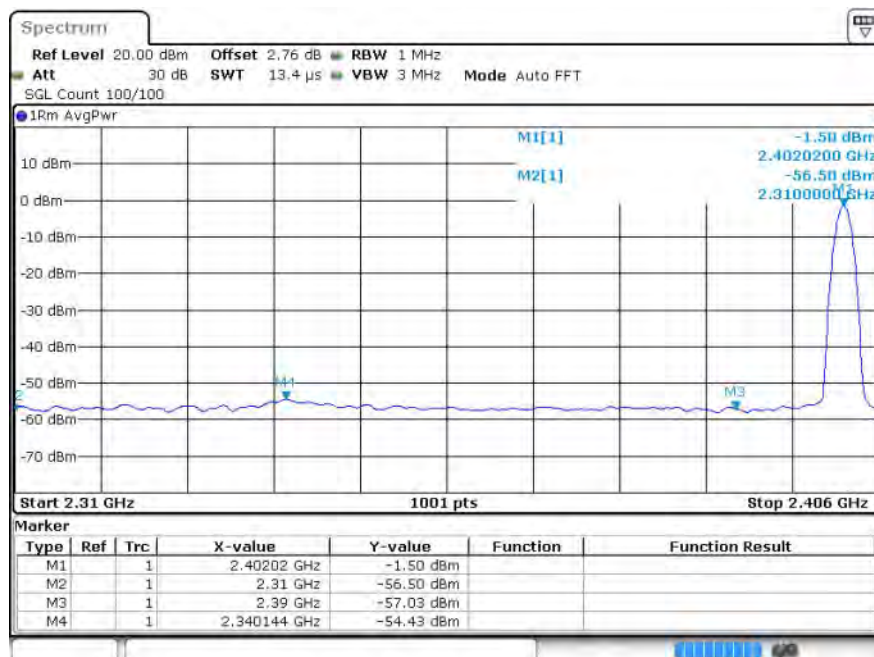
Restrict-band band-edge measurements_Hopping Off_GFSK_Average (High Channel)



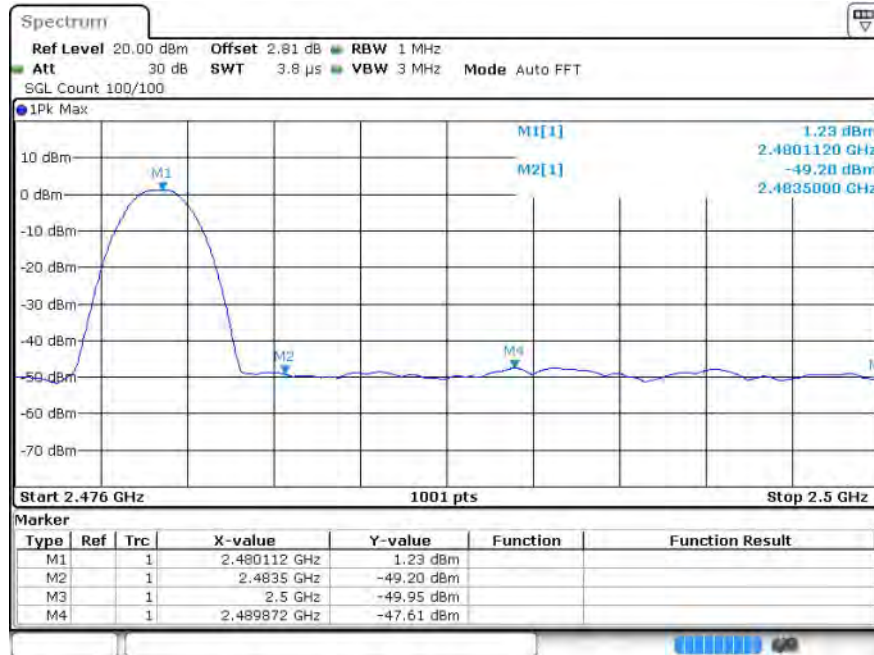
Restrict-band band-edge measurements_Hopping Off_π/4-DQPSK_PEAK (Low Channel)



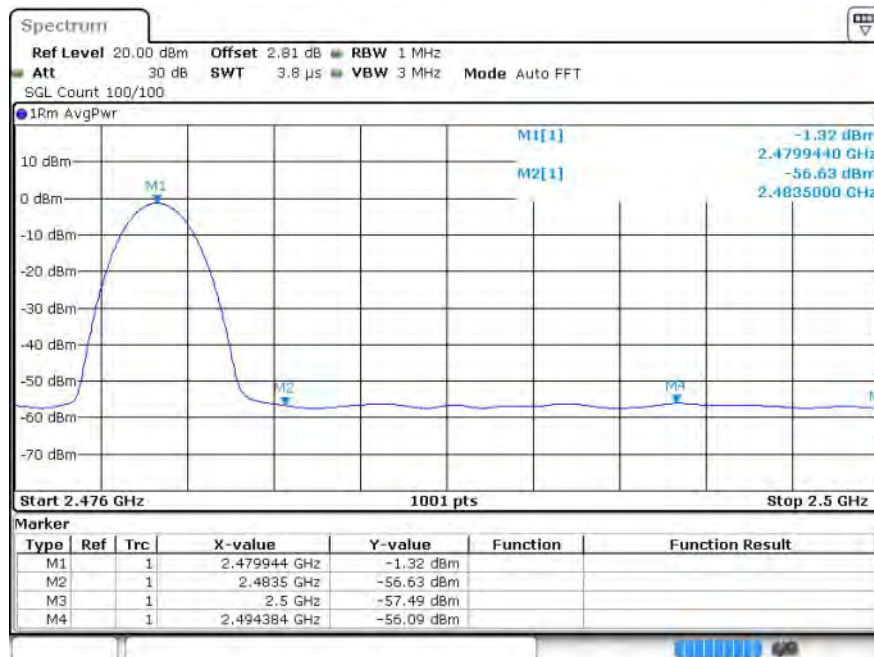
Restrict-band band-edge measurements_Hopping Off_π/4-DQPSK_Average (Low Channel)



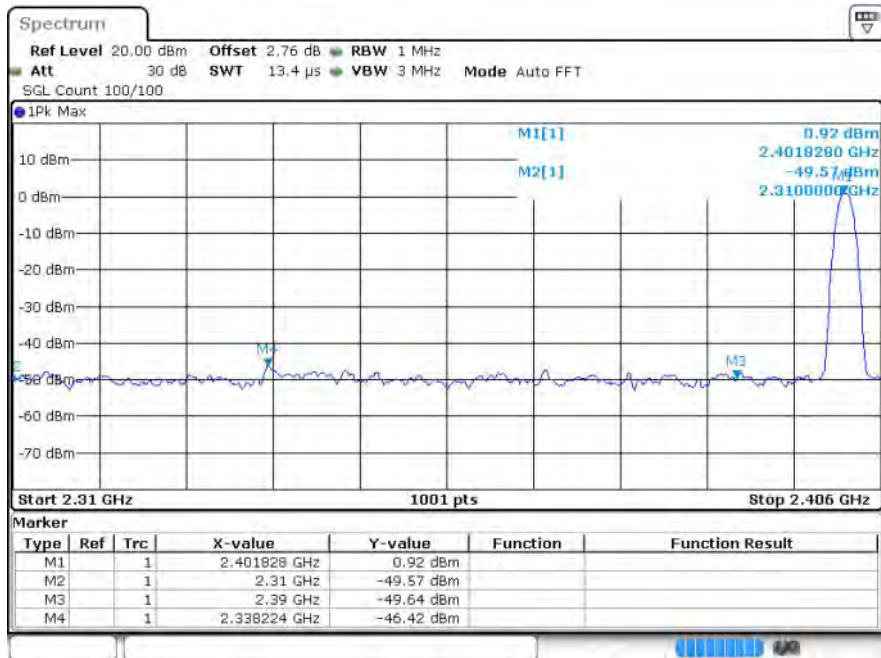
Restrict-band band-edge measurements_Hopping Off_π/4-DQPSK_PEAK (High Channel)



Restrict-band band-edge measurements_Hopping Off_π/4-DQPSK_Average (High Channel)



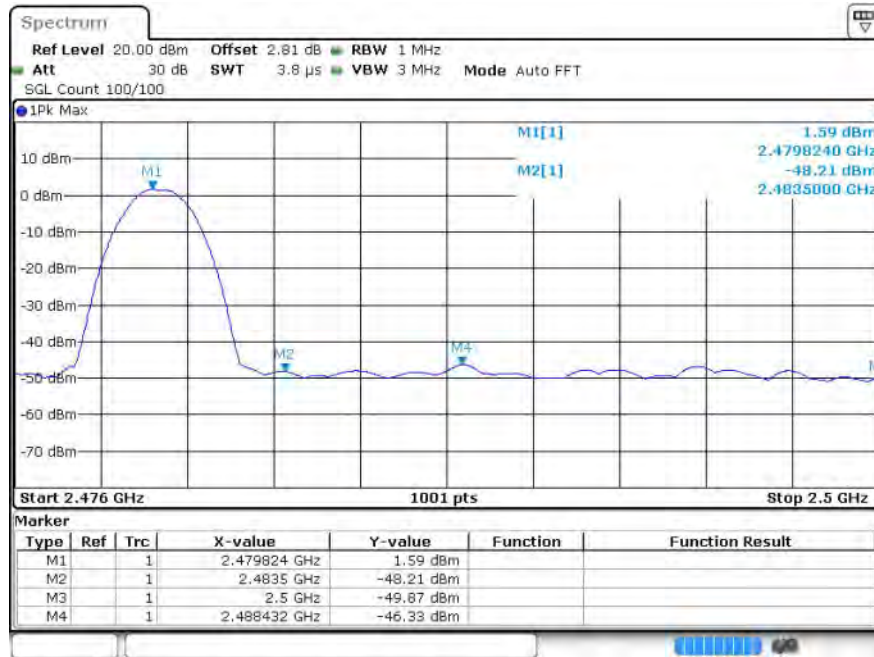
Restrict-band band-edge measurements_Hopping Off_8DPSK_PEAK (Low Channel)



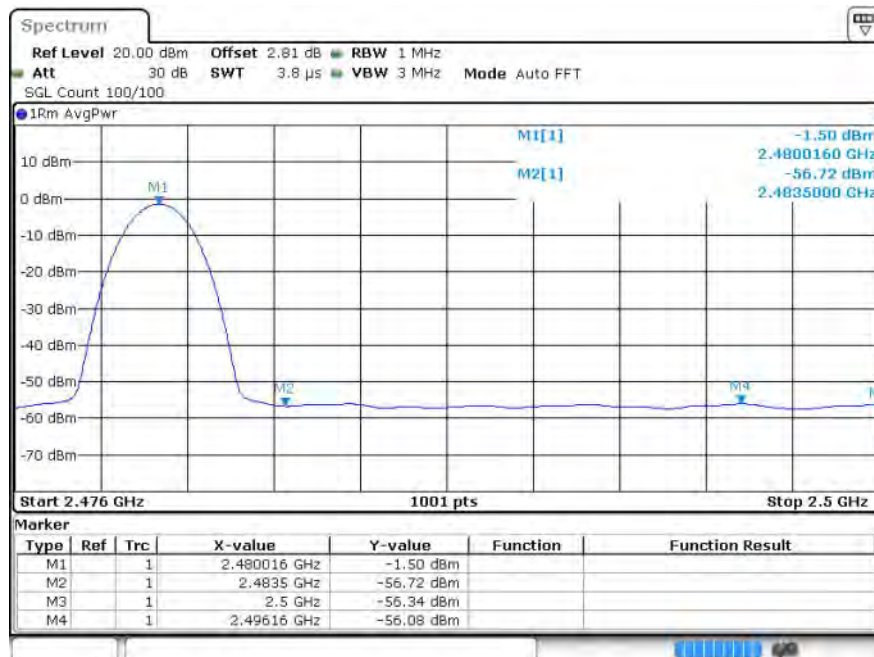
Restrict-band band-edge measurements_Hopping Off_8DPSK_Average (Low Channel)



Restrict-band band-edge measurements_Hopping Off_8DPSK_PEAK (High Channel)



Restrict-band band-edge measurements_Hopping Off_8DPSK_Average (High Channel)



---The End---