



Appendix A

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

Product Name: Mini PC

Trade Mark: Blackview

Test Model: MP200

Environmental Conditions

Temperature:	25.8° C
Relative Humidity:	52.5%
ATM Pressure:	100.0 kPa
Test Engineer:	Simba Huang
Supervised by:	Seal Chen

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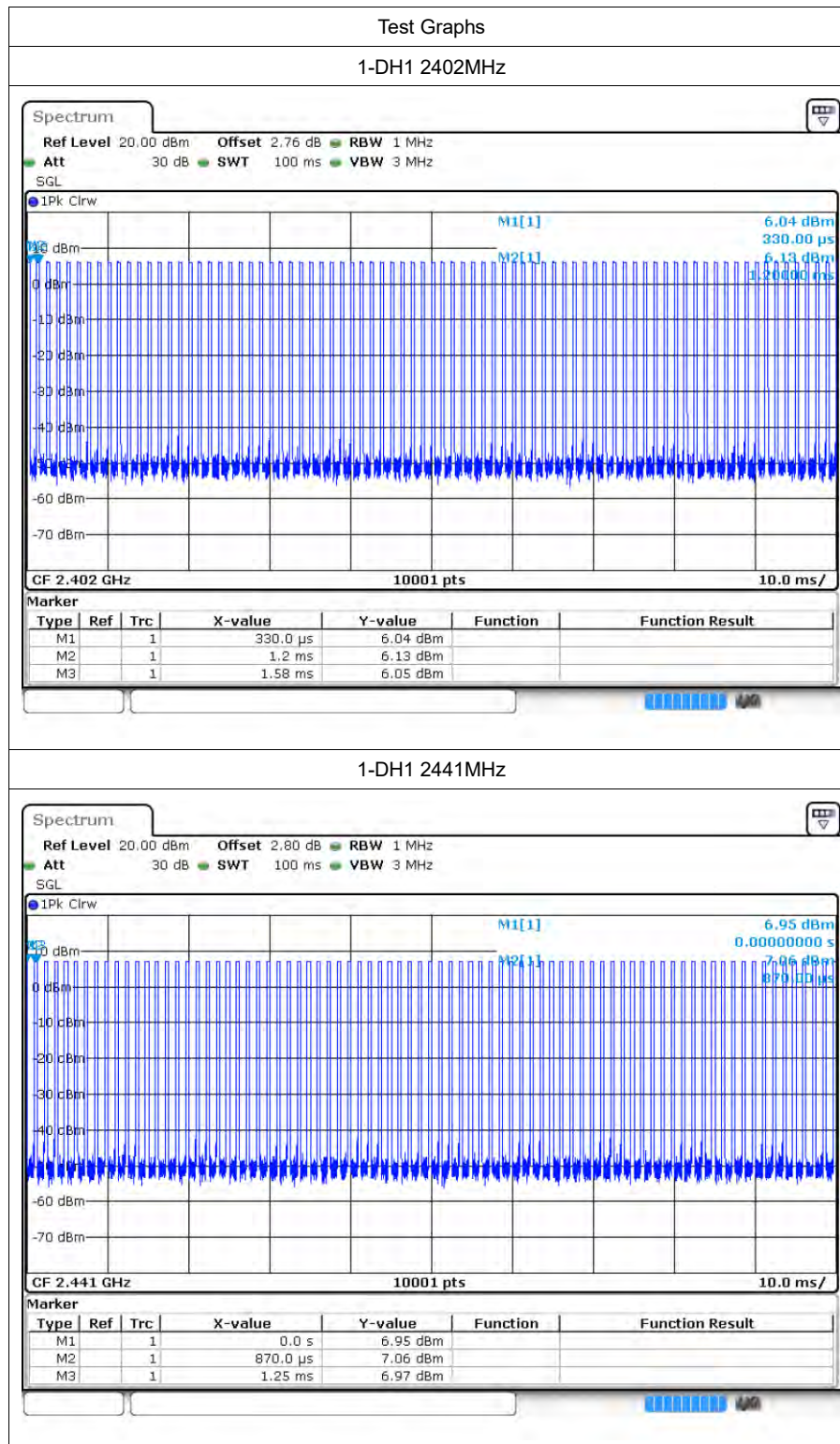
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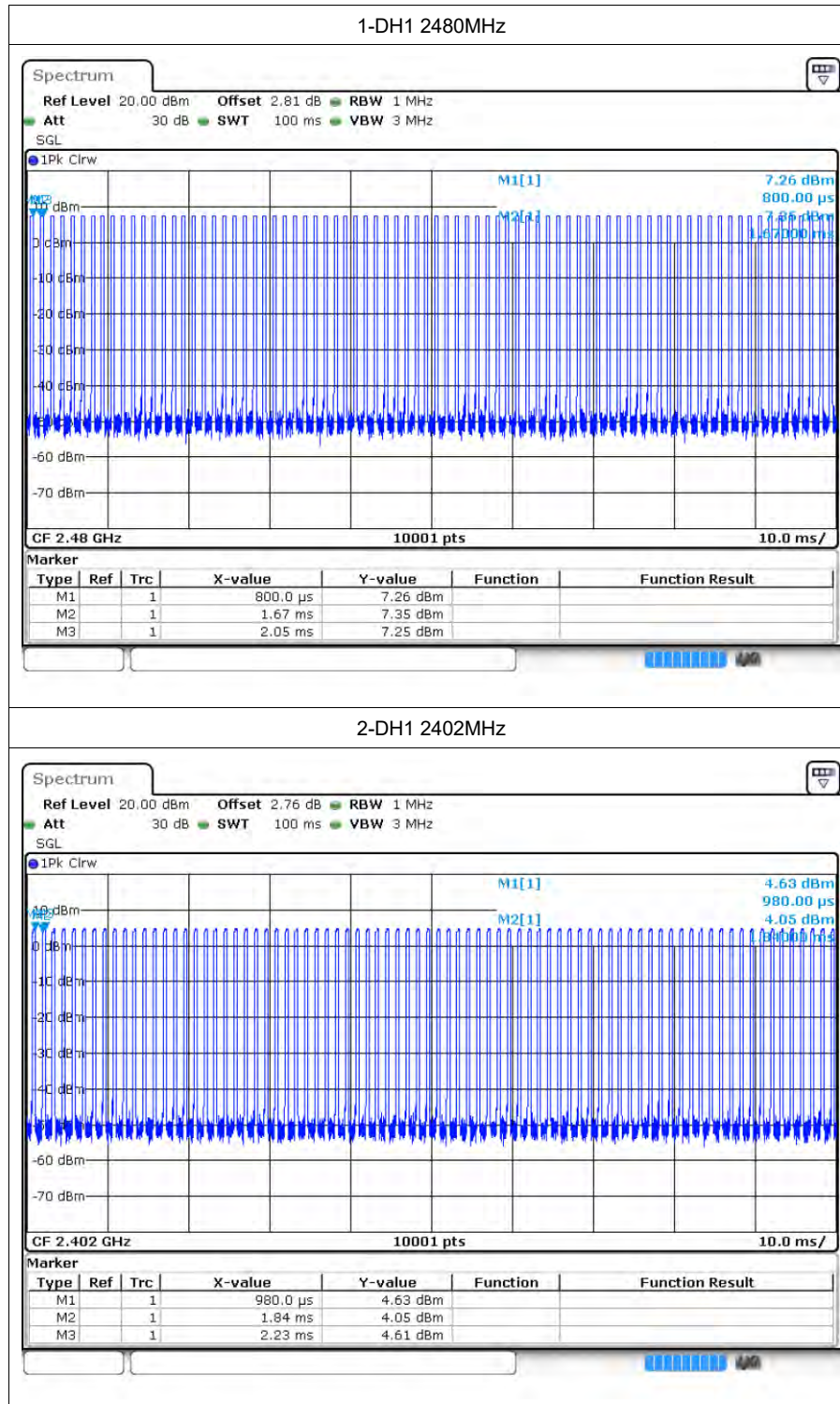
1 Duty Cycle

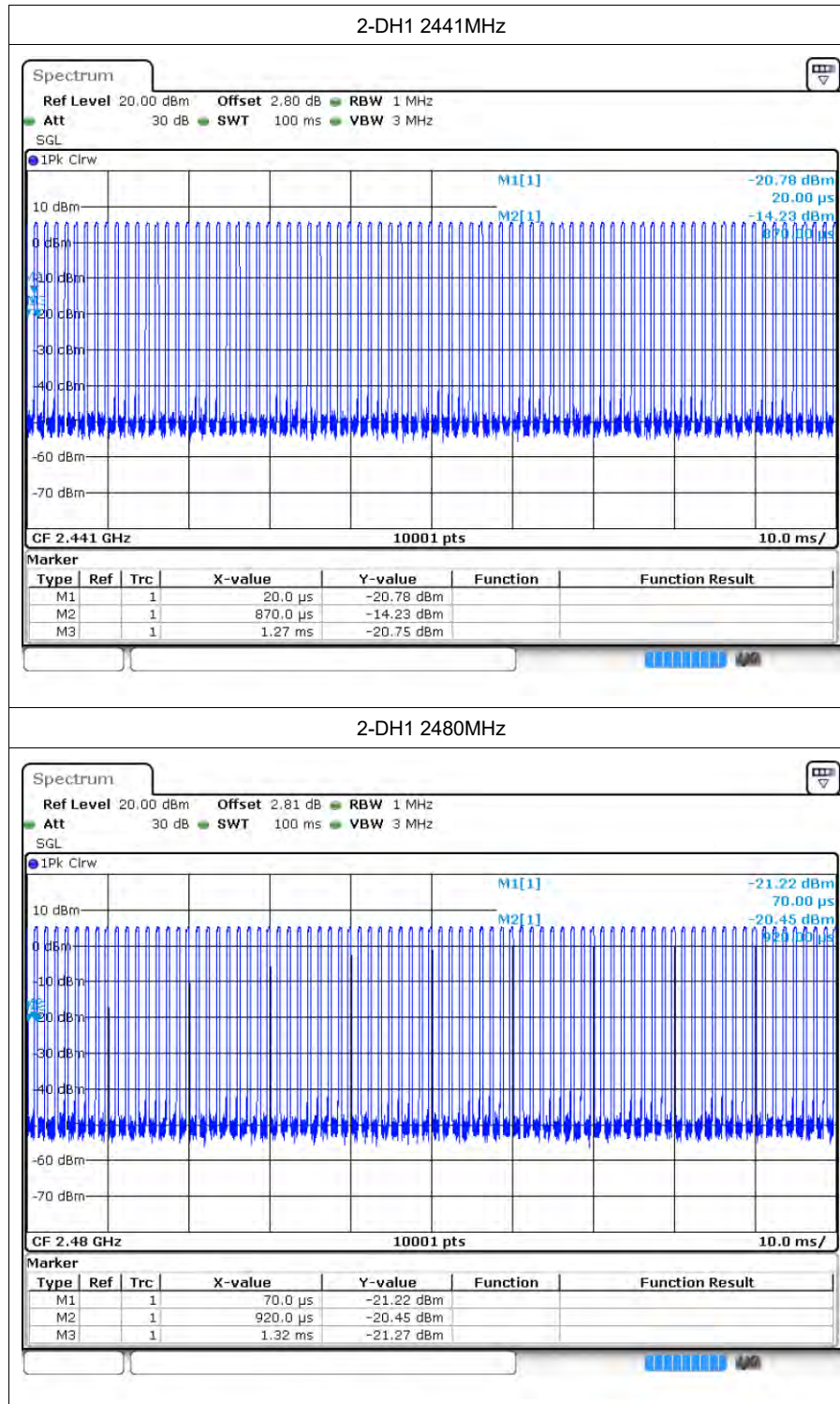
1.1 Test Result

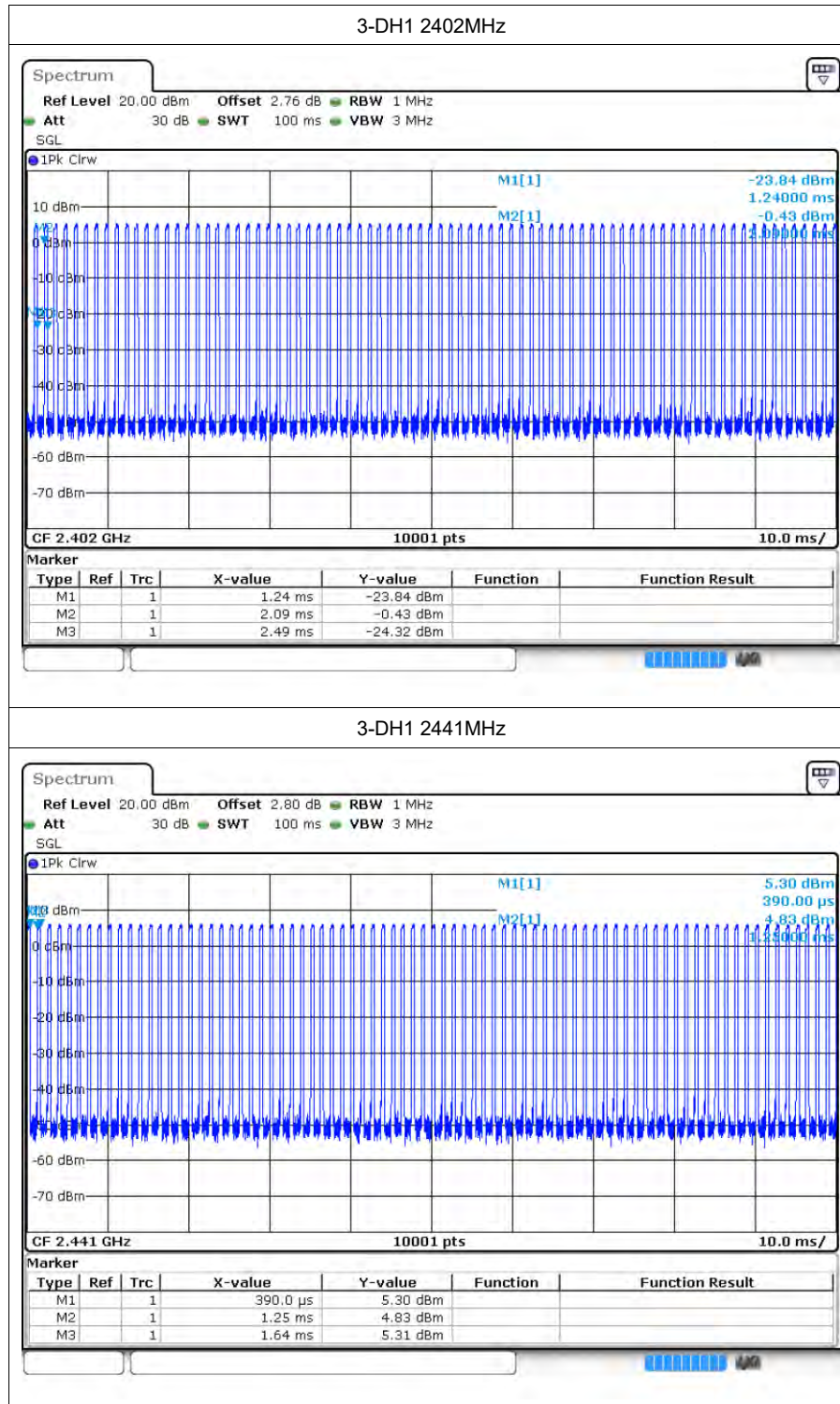
Mode	Frequency (MHz)	Duty Cycle (%)	1/T (kHz)
1-DH1	2402	31.21	2.63
1-DH1	2441	31.21	2.63
1-DH1	2480	31.2	2.63
2-DH1	2402	32	2.56
2-DH1	2441	32.16	2.5
2-DH1	2480	32.09	2.5
3-DH1	2402	32.55	2.5
3-DH1	2441	32.01	2.56
3-DH1	2480	32	2.56

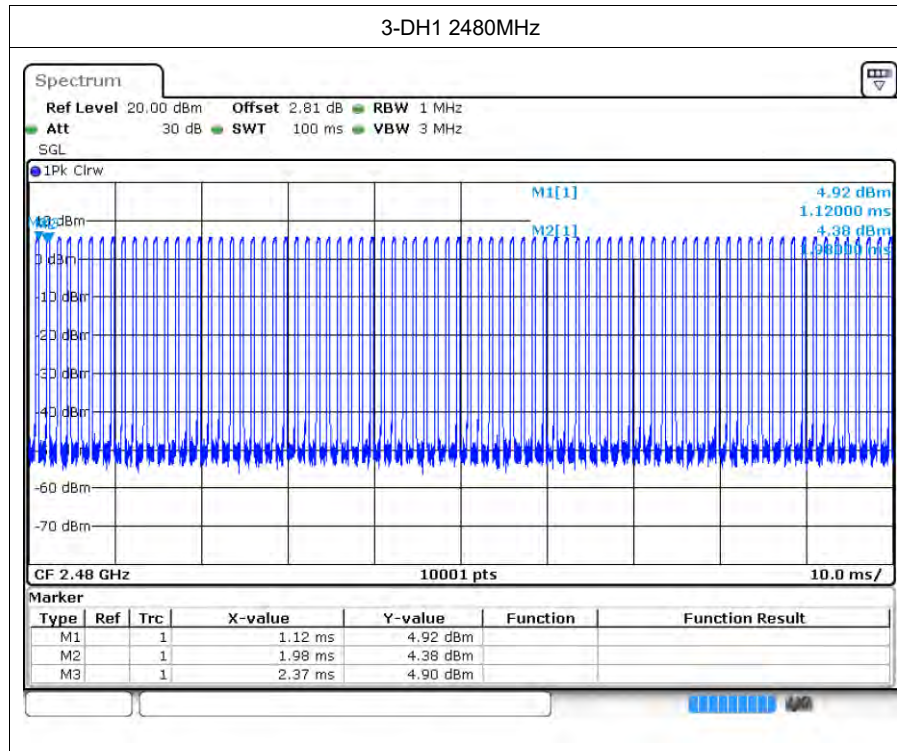
1.2 Test Graphs









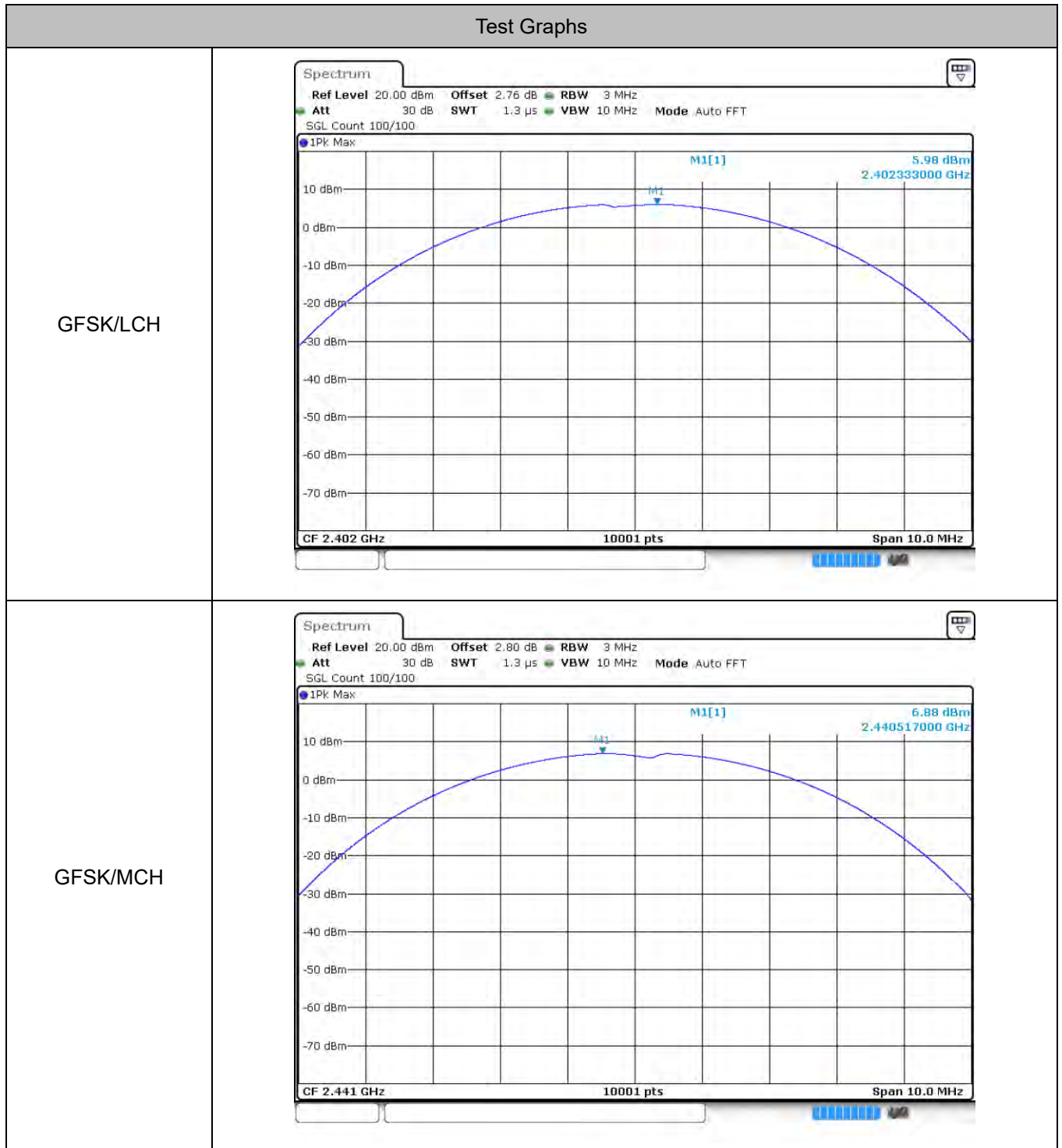


2 Maximum Conducted Peak Output Power

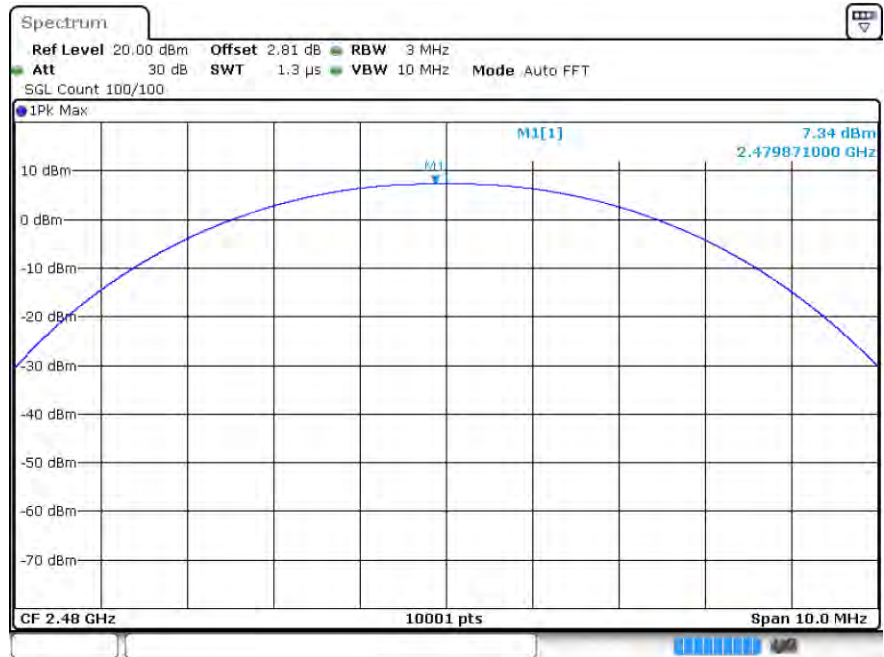
2.1 Test Result

Mode	Channel.	Maximum Peak Output Power [dBm]	Limit [dBm]	Verdict
GFSK	LCH	5.98	21	Pass
	MCH	6.88	21	Pass
	HCH	7.34	21	Pass
$\pi/4$ DQPSK	LCH	5.34	21	Pass
	MCH	6.02	21	Pass
	HCH	6.09	21	Pass
8DPSK	LCH	5.55	21	Pass
	MCH	6.35	21	Pass
	HCH	6.09	21	Pass

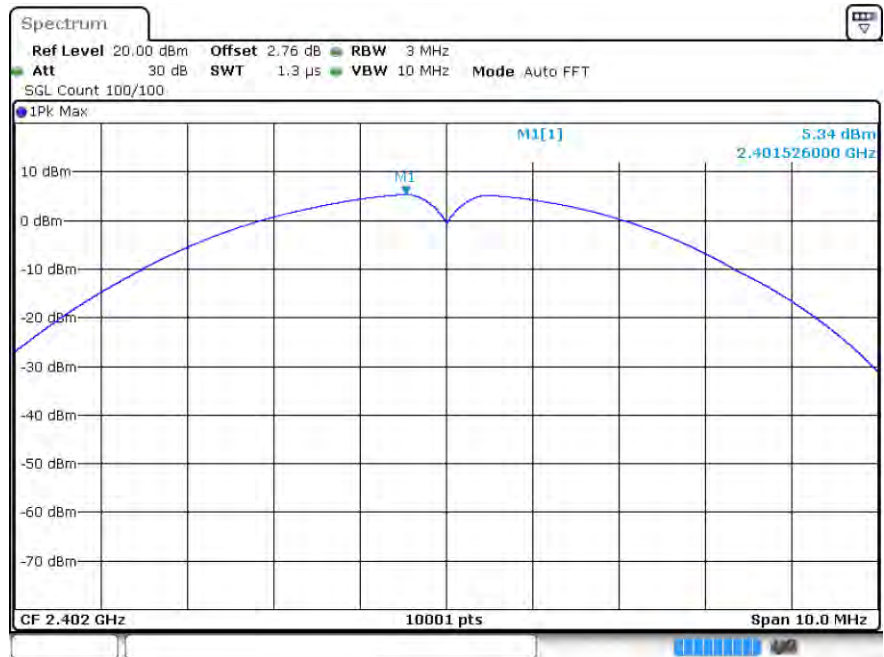
2.2 Test Graphs



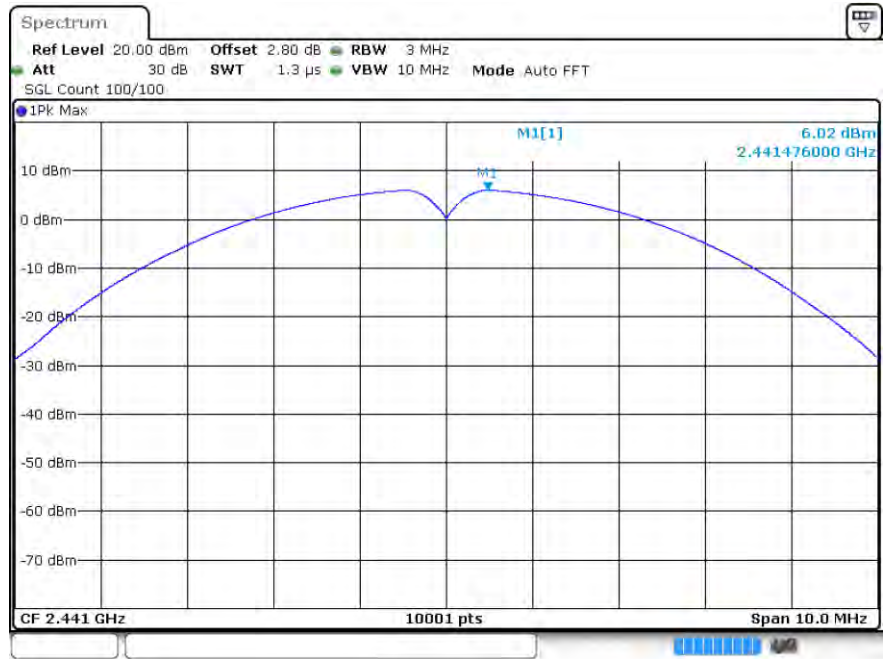
GFSK/HCH



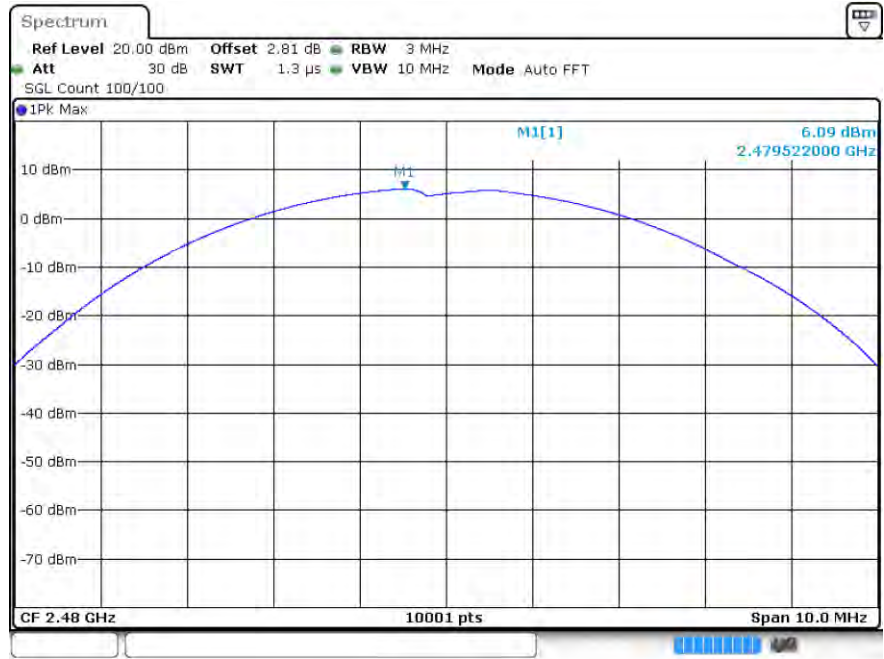
$\pi/4$ DQPSK/LCH



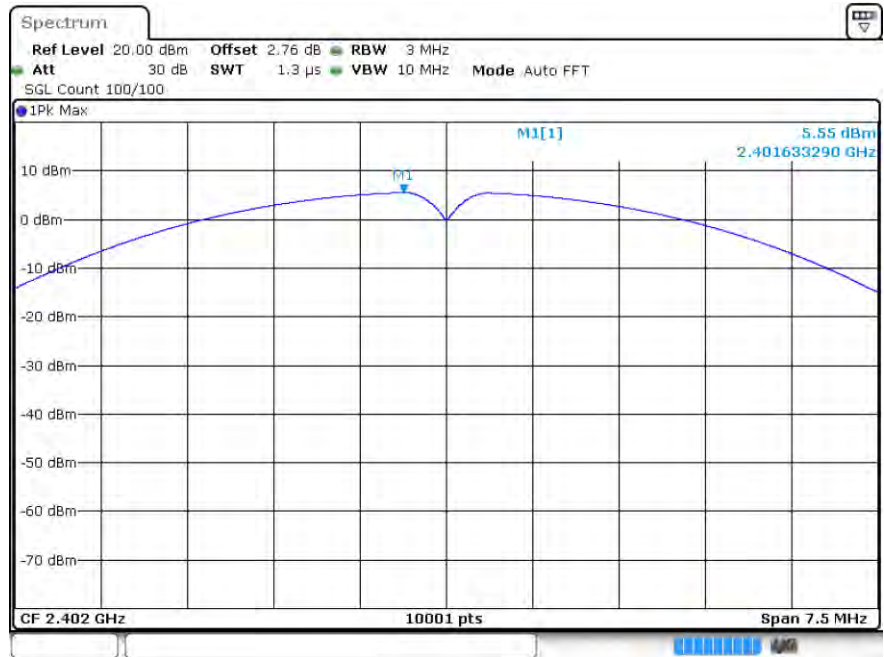
$\pi/4$ DQPSK/MCH



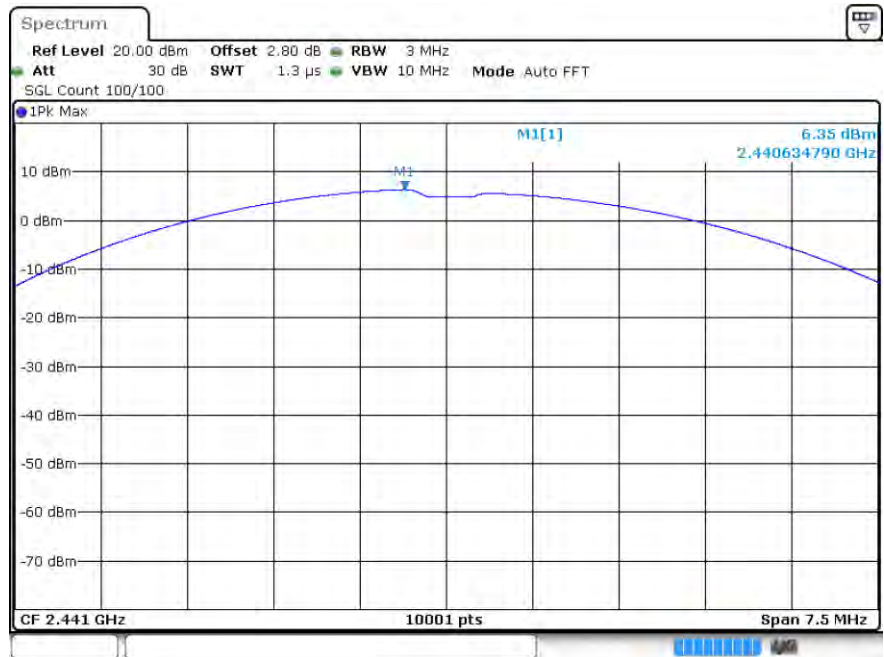
$\pi/4$ DQPSK/HCH



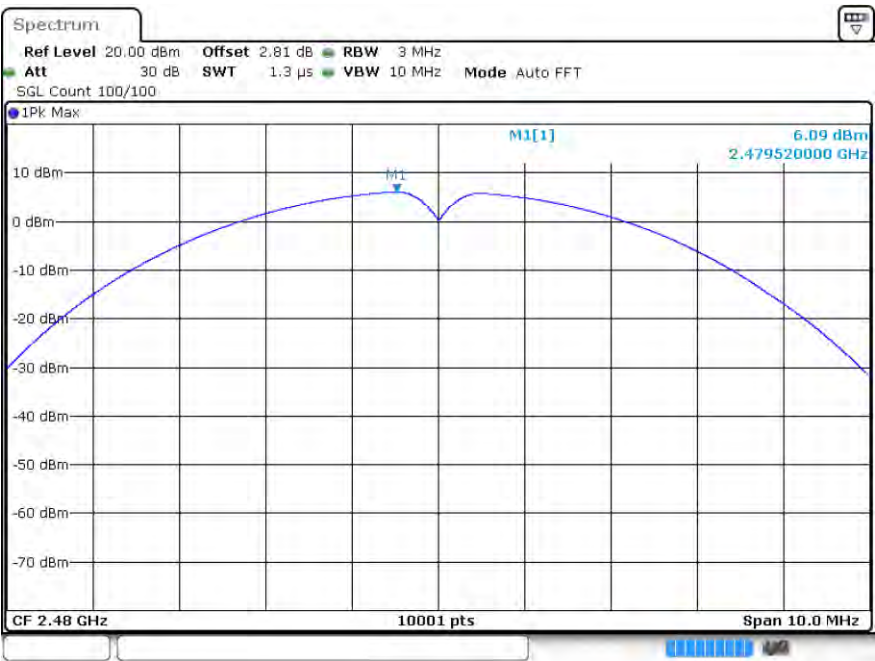
8DPSK/LCH



8DPSK/MCH



8DPSK/HCH

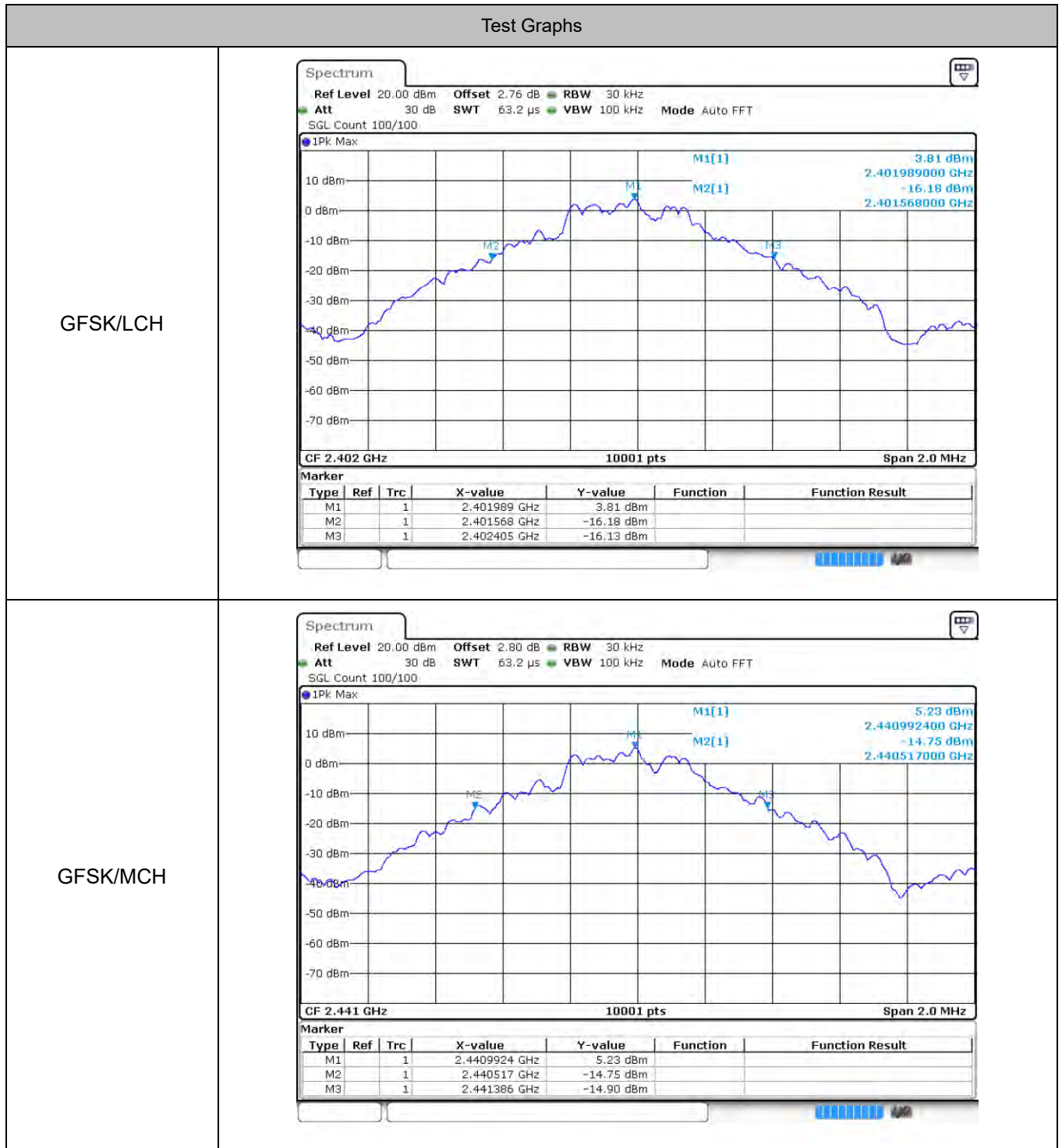


3 20dB Bandwidth

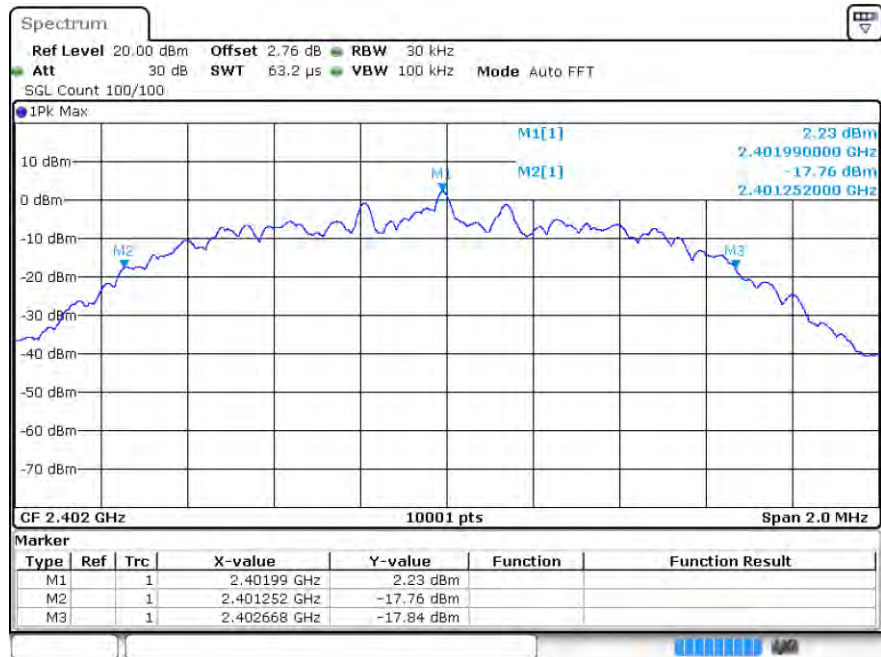
3.1 Test Result

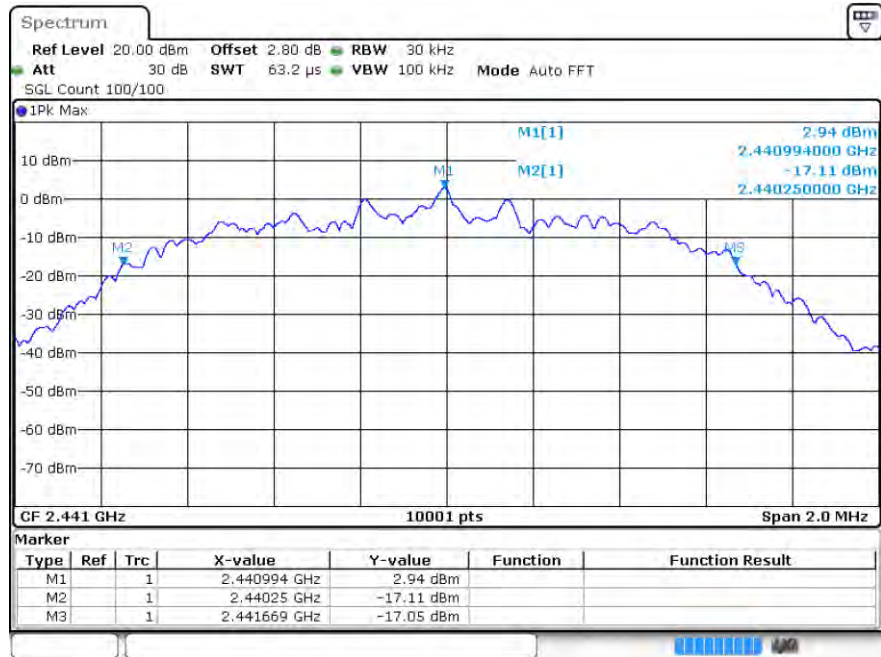
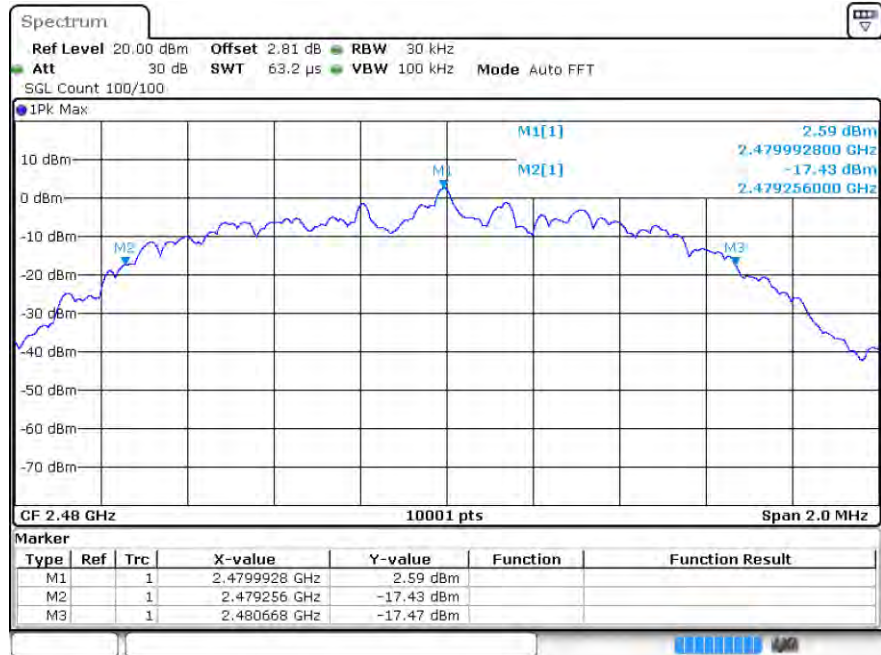
Mode	Channel.	20dB Bandwidth [MHz]	Limit [MHz]	Verdict
GFSK	LCH	0.837	Not Specified	Pass
	MCH	0.869	Not Specified	Pass
	HCH	0.854	Not Specified	Pass
$\pi/4$ DQPSK	LCH	1.416	Not Specified	Pass
	MCH	1.419	Not Specified	Pass
	HCH	1.412	Not Specified	Pass
8DPSK	LCH	1.422	Not Specified	Pass
	MCH	1.411	Not Specified	Pass
	HCH	1.408	Not Specified	Pass

3.2 Test Graphs

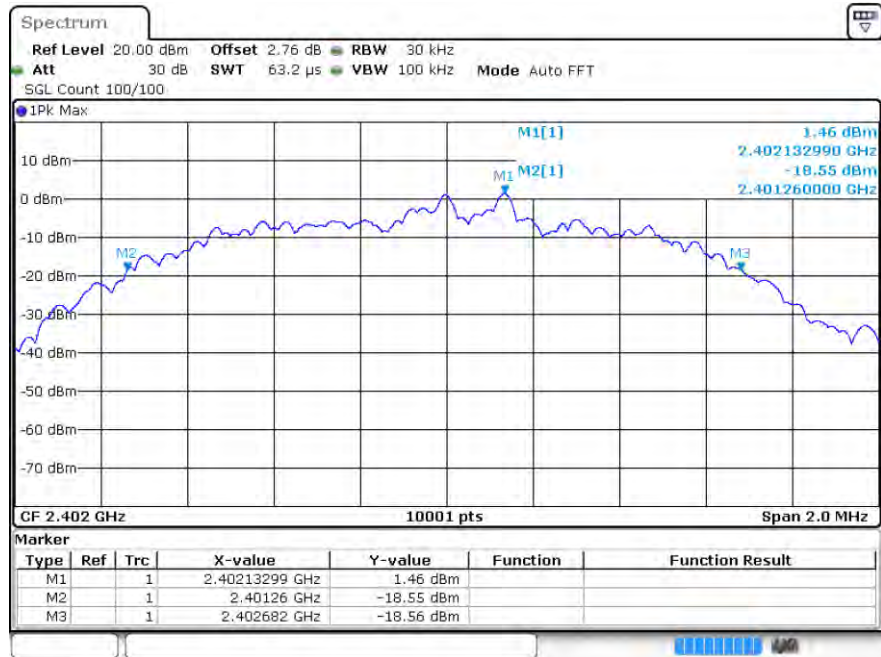


GFSK/HCH

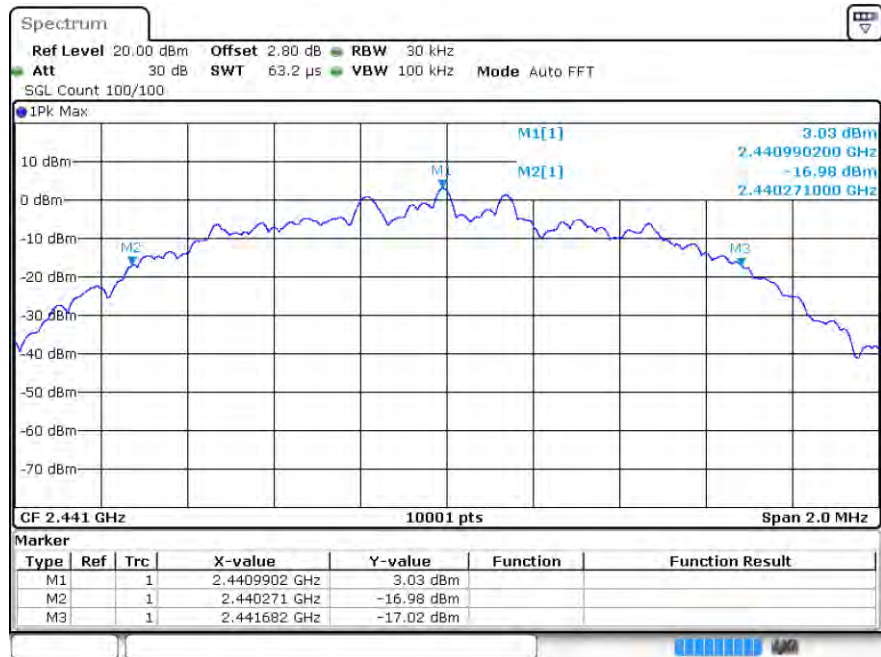

 $\pi/4$ DQPSK/LCH


$\pi/4$ DQPSK/MCH

 $\pi/4$ DQPSK/HCH


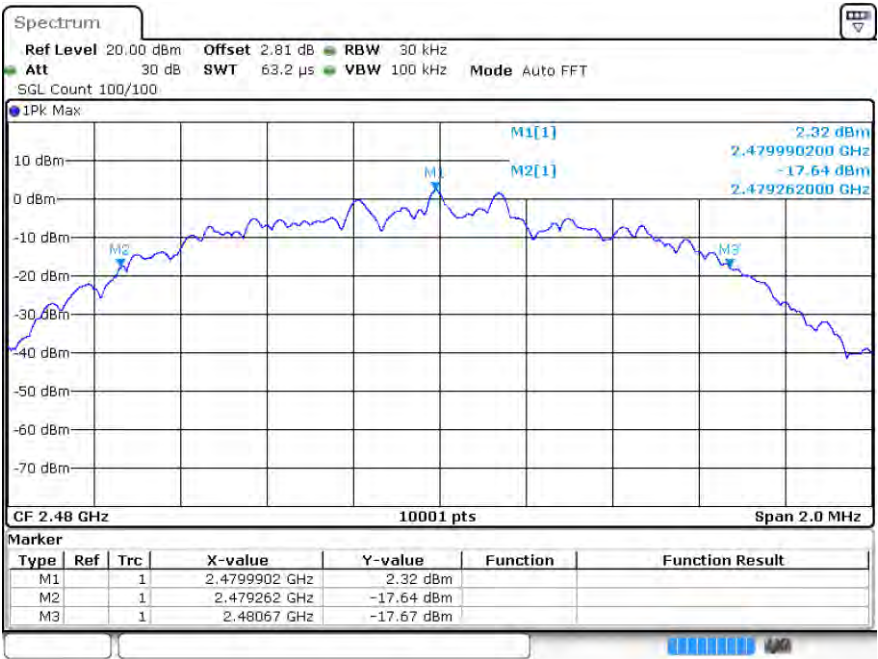
8DPSK/LCH



8DPSK/MCH



8DPSK/HCH

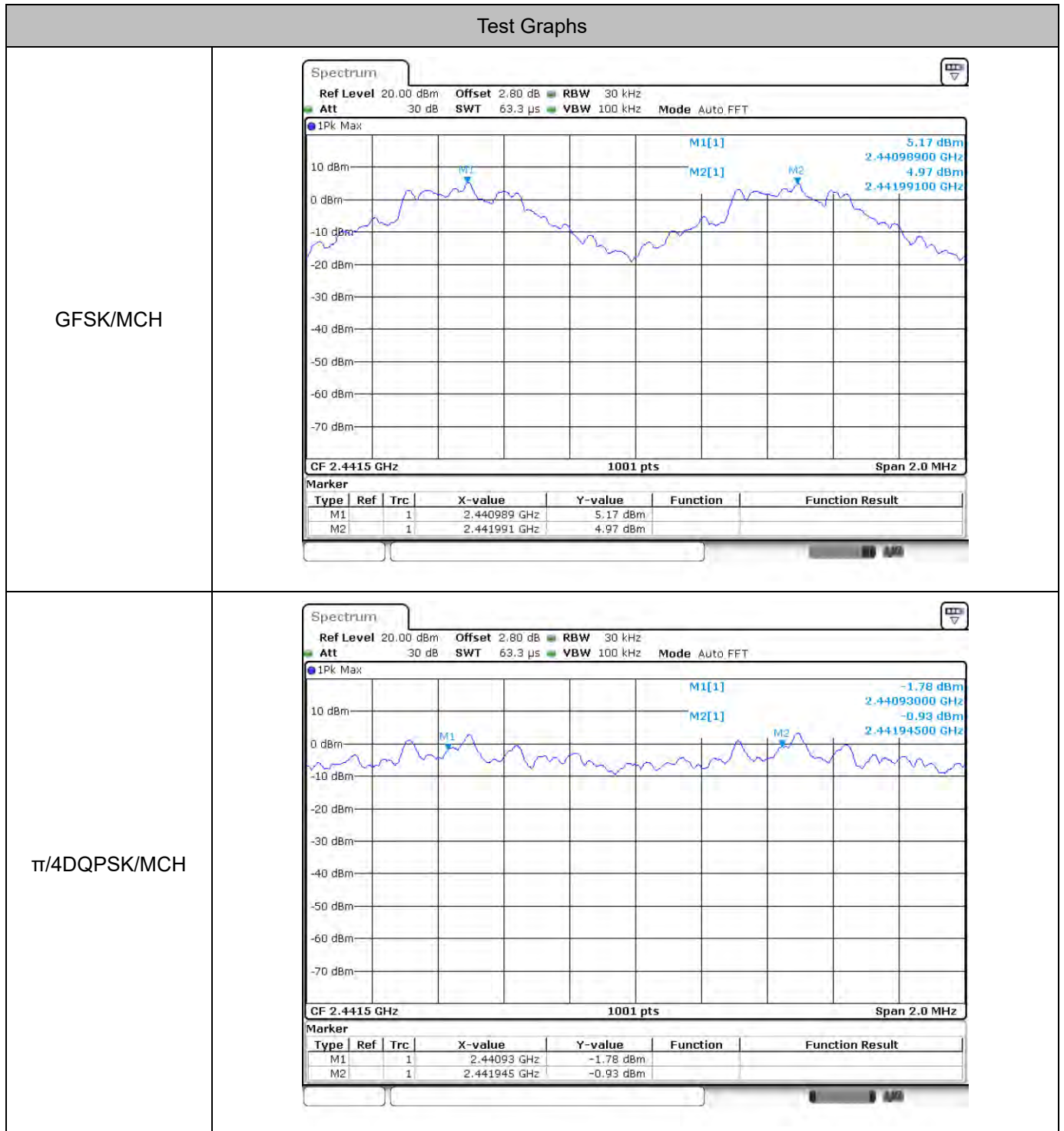


4 Carrier Frequency Separation

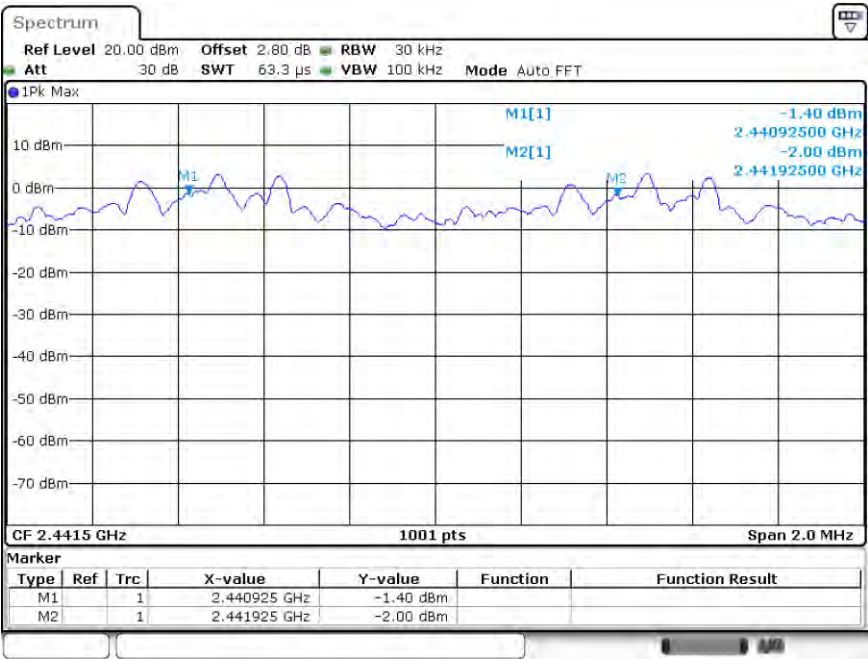
4.1 Test Result

Mode	Channel.	Carrier Frequency Separation [MHz]	Limit [MHz]	Verdict
GFSK	MCH	1.002	0.579	Pass
$\pi/4$ DQPSK	MCH	1.015	0.946	Pass
8DPSK	MCH	1	0.941	Pass

4.2 Test Graphs



8DPSK/MCH

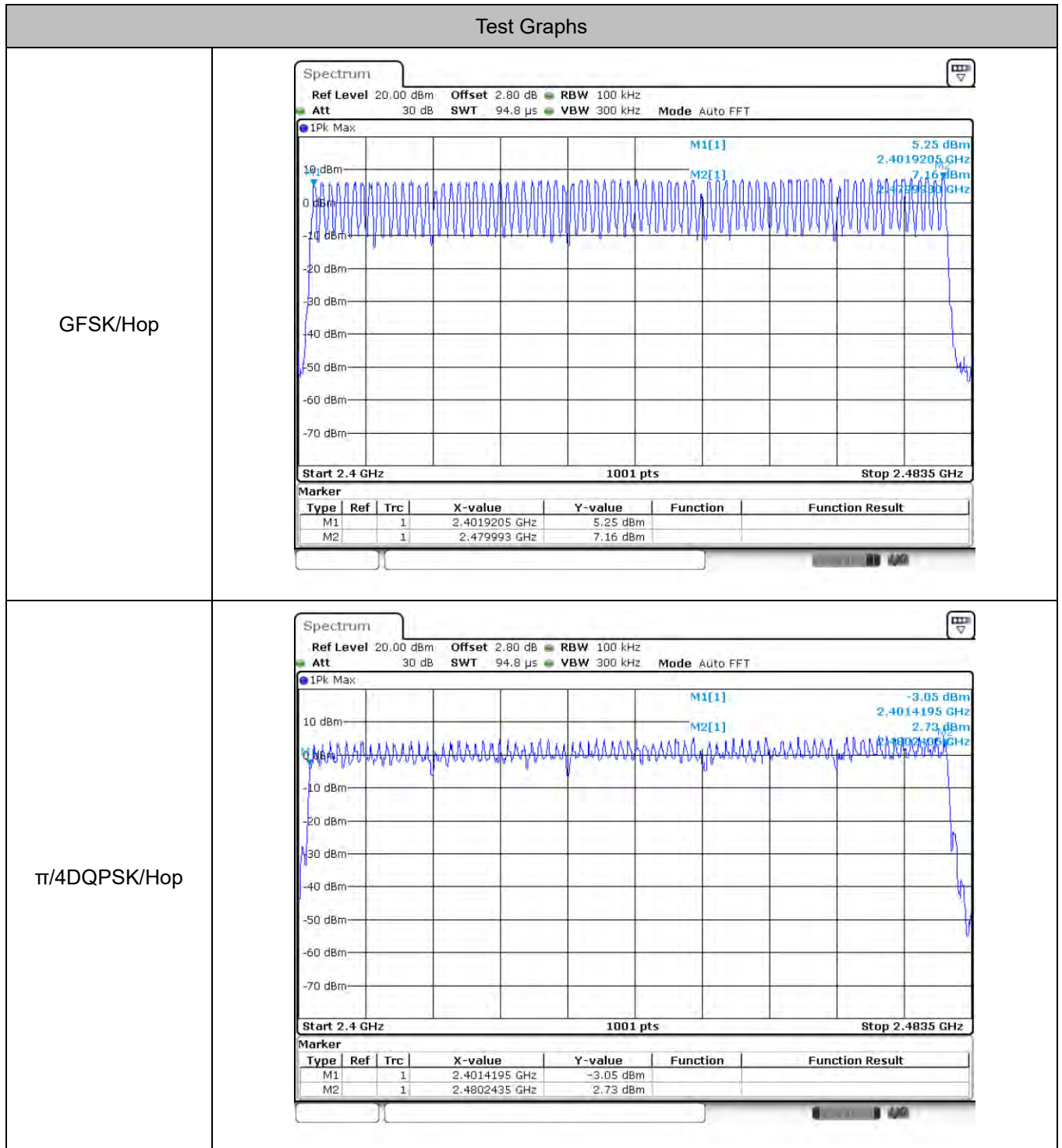


5 Hopping Channel Number

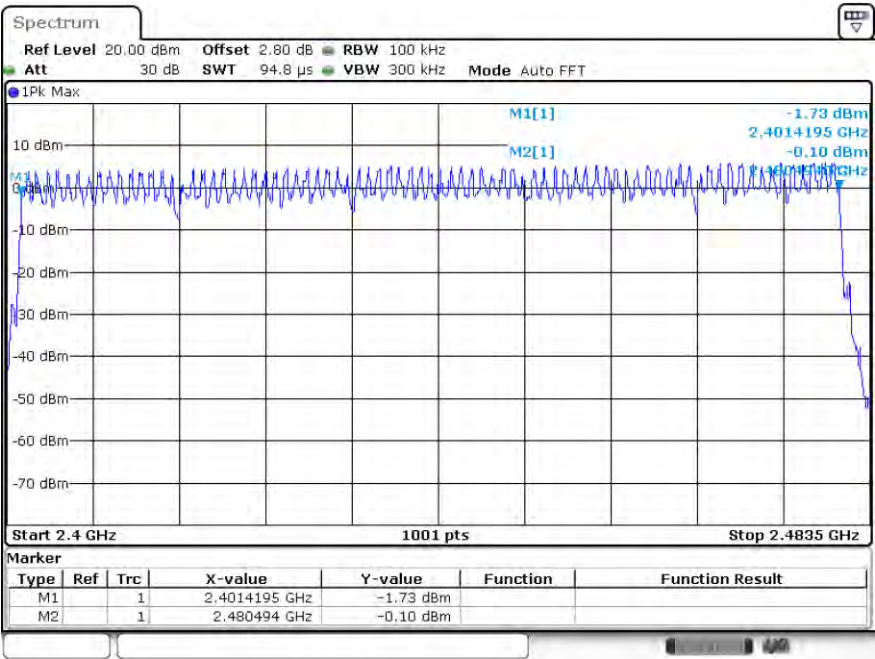
5.1 Test Result

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

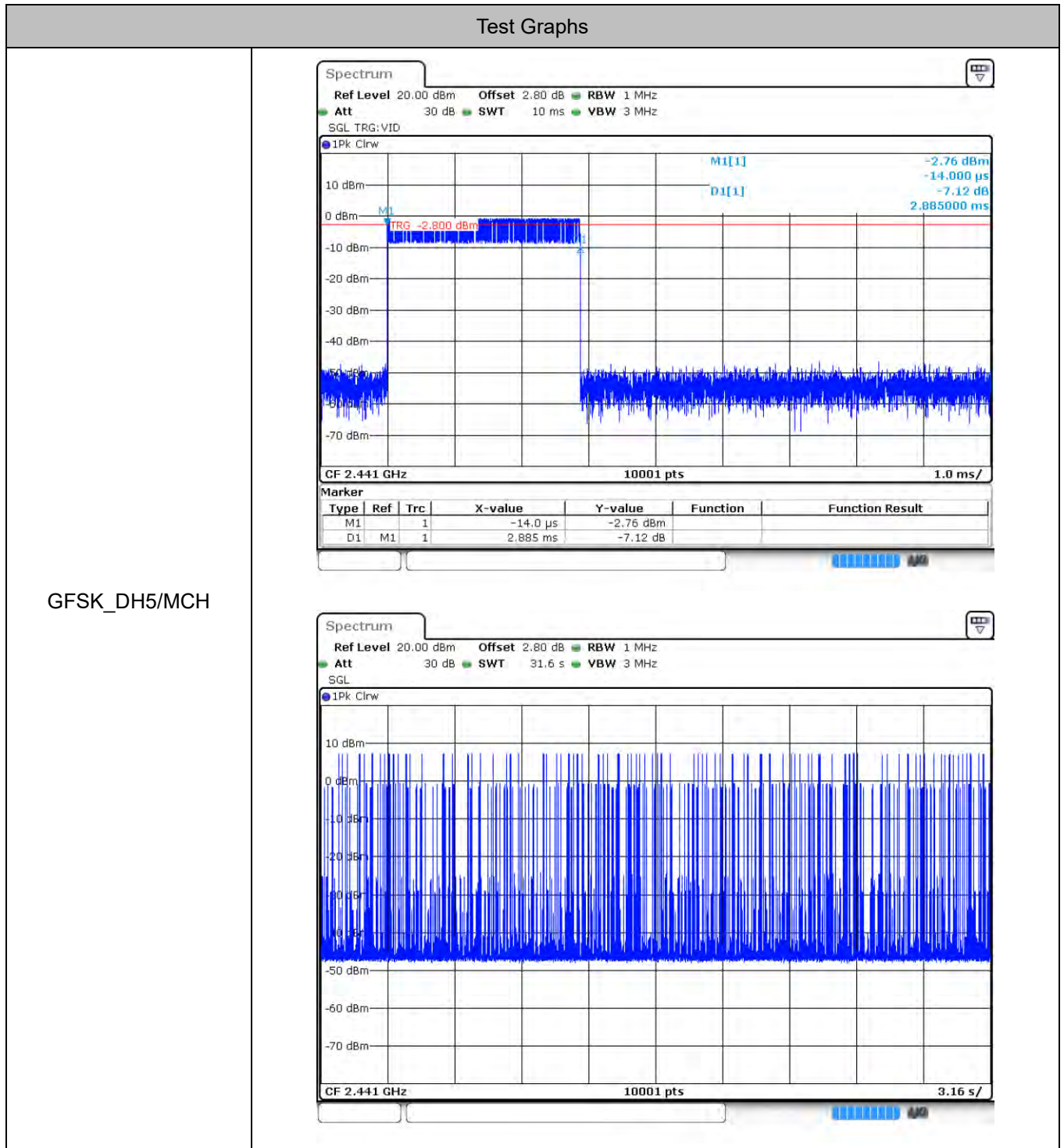


6 Dwell Time

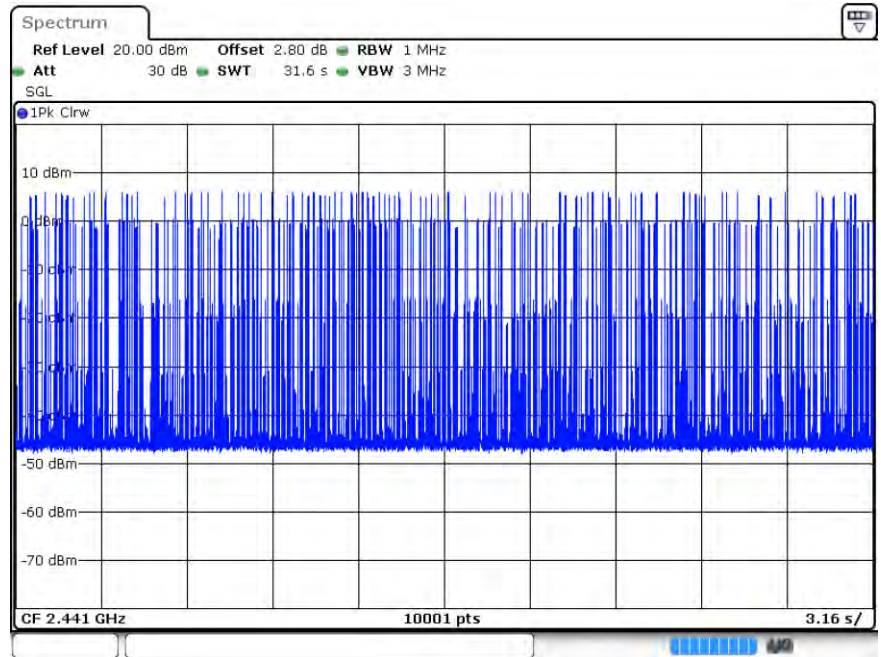
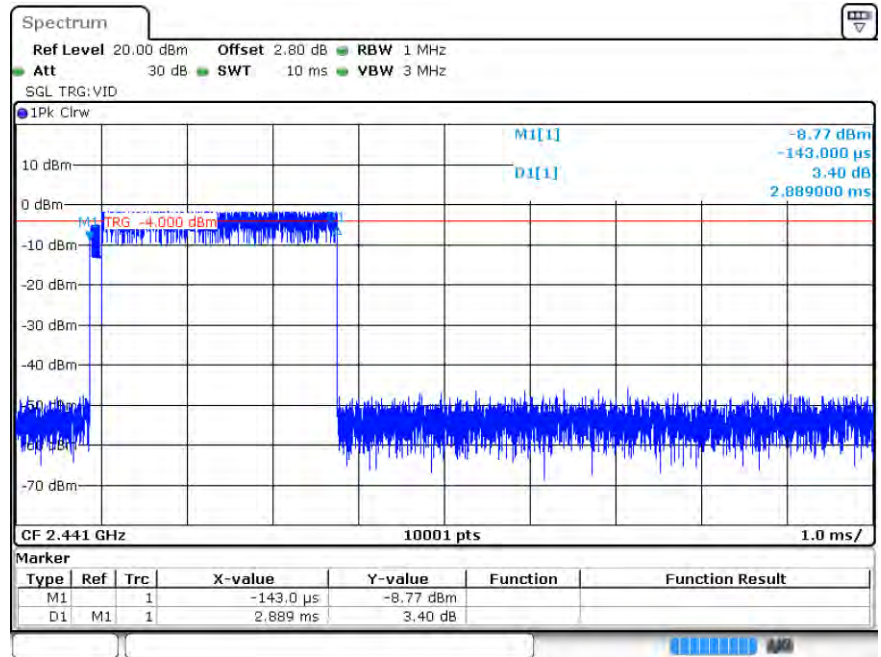
6.1 Test Result

Mode	Packet	Channel	Burst Width [ms/hop/ch]	Total Hops[hop*ch]	Dwell Time[ms]	Limit [s]	Verdict
GFSK	DH5	MCH	2.885	106	305.81	0.4	Pass
$\pi/4$ DQPSK	2DH5	MCH	2.889	115	332.235	0.4	Pass
8DPSK	3DH5	MCH	2.891	109	315.119	0.4	Pass

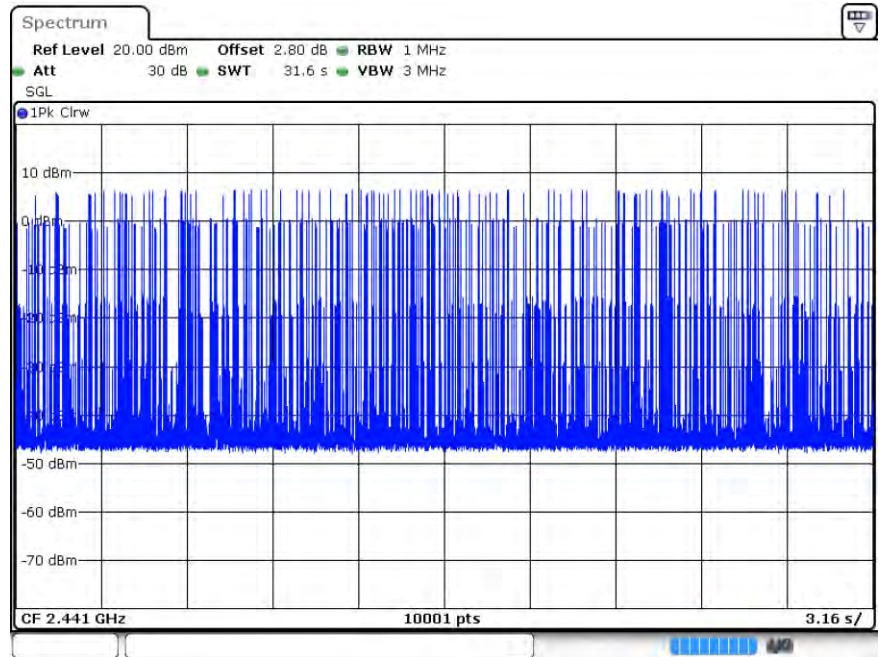
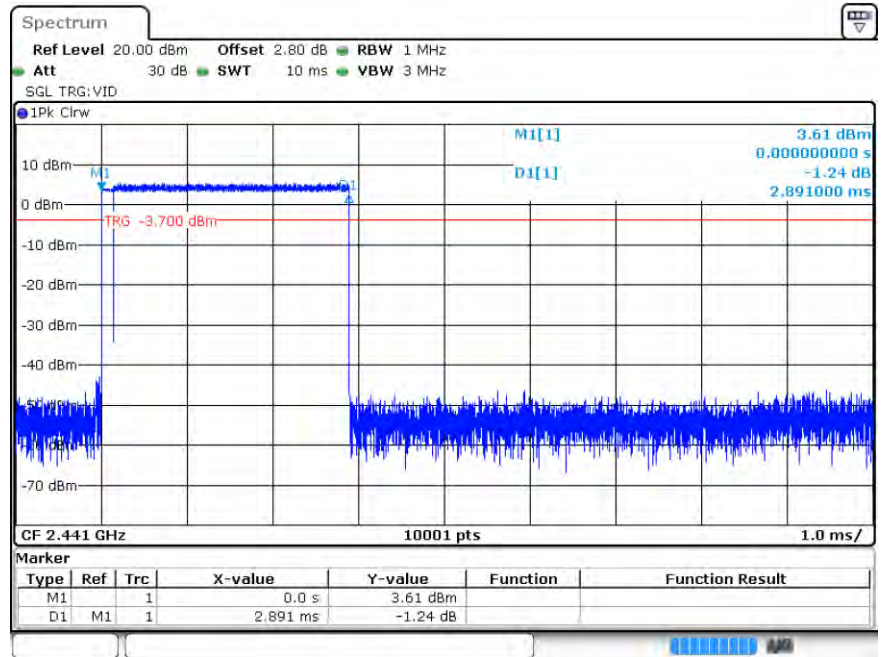
6.2 Test Graphs



$\pi/4$ 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	-46.8	-20	Pass
	MCH	-47.4	-20	Pass
	HCH	-48.58	-20	Pass
$\pi/4$ DQPSK	LCH	-45.49	-20	Pass
	MCH	-45.75	-20	Pass
	HCH	-45.39	-20	Pass
8DPSK	LCH	-45.43	-20	Pass
	MCH	-45.56	-20	Pass
	HCH	-45.62	-20	Pass

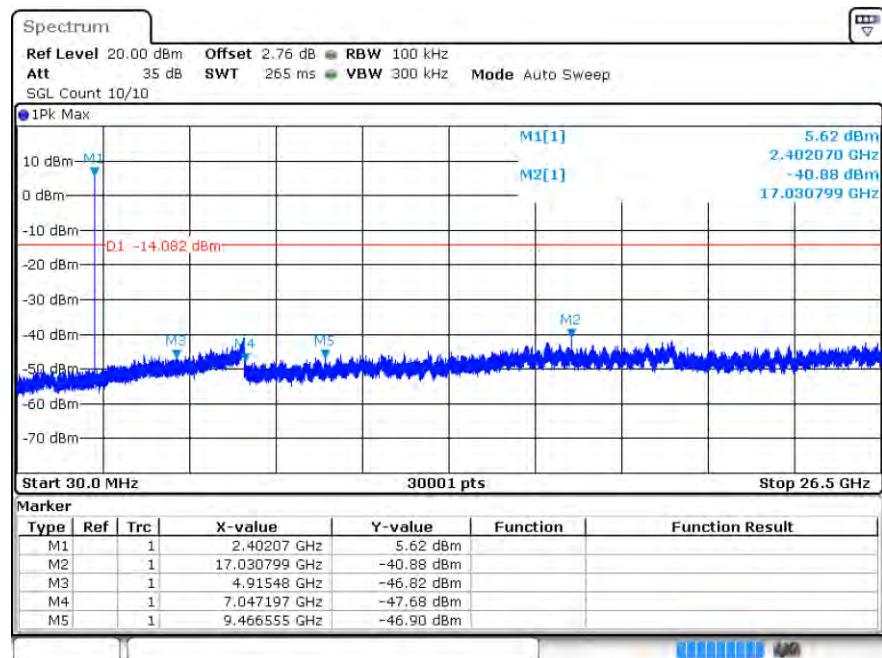
7.2 Test Graphs

GFSK_LCH_Graphs

Pref



Puw

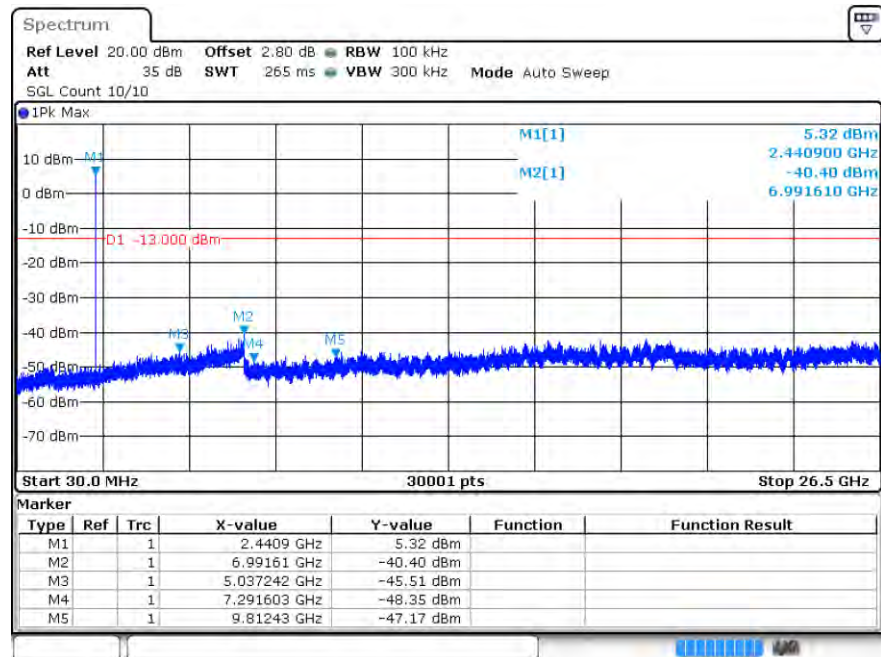


GFSK_MCH_Graphs

Pref

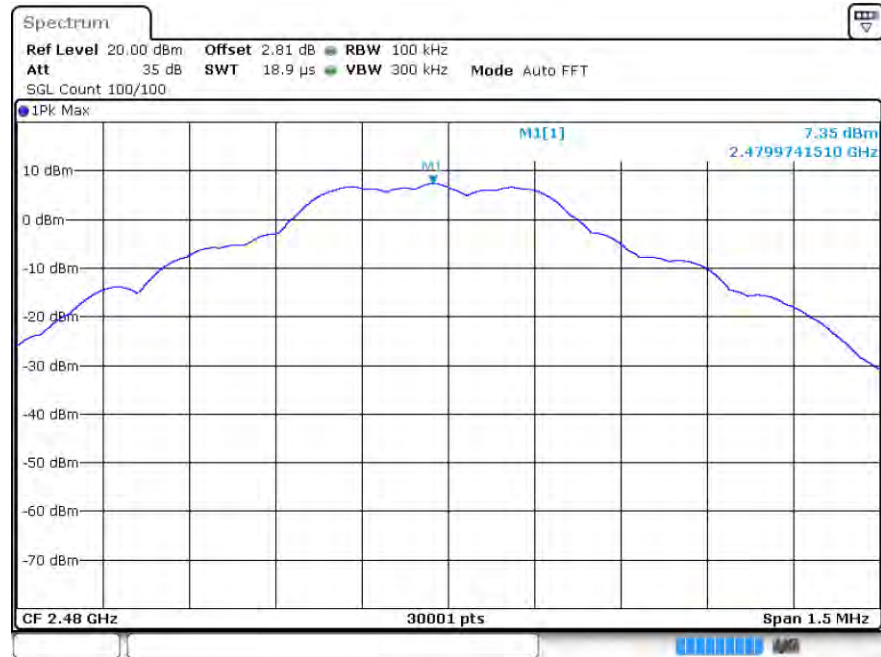


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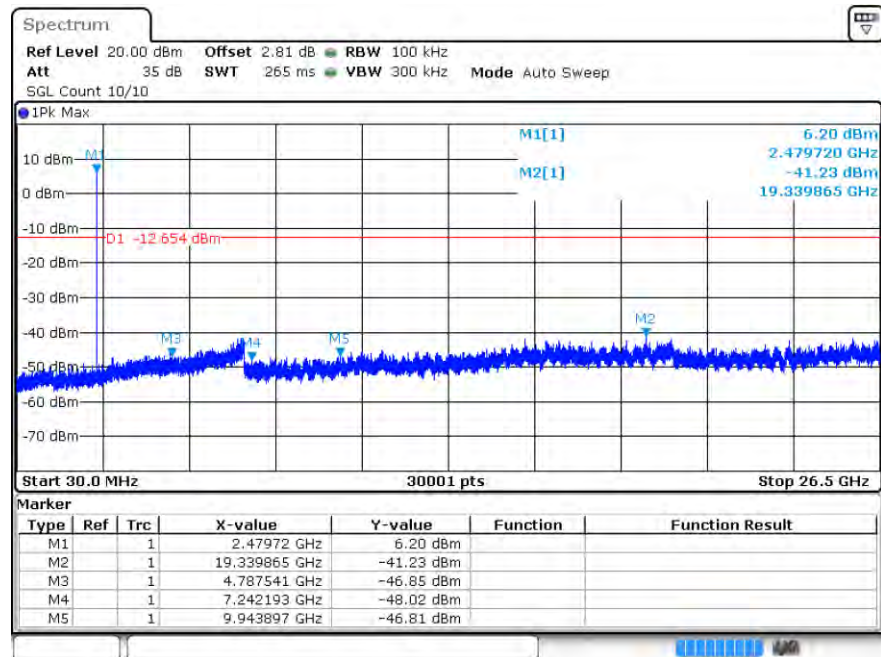


GFSK_HCH_Graphs

Pref

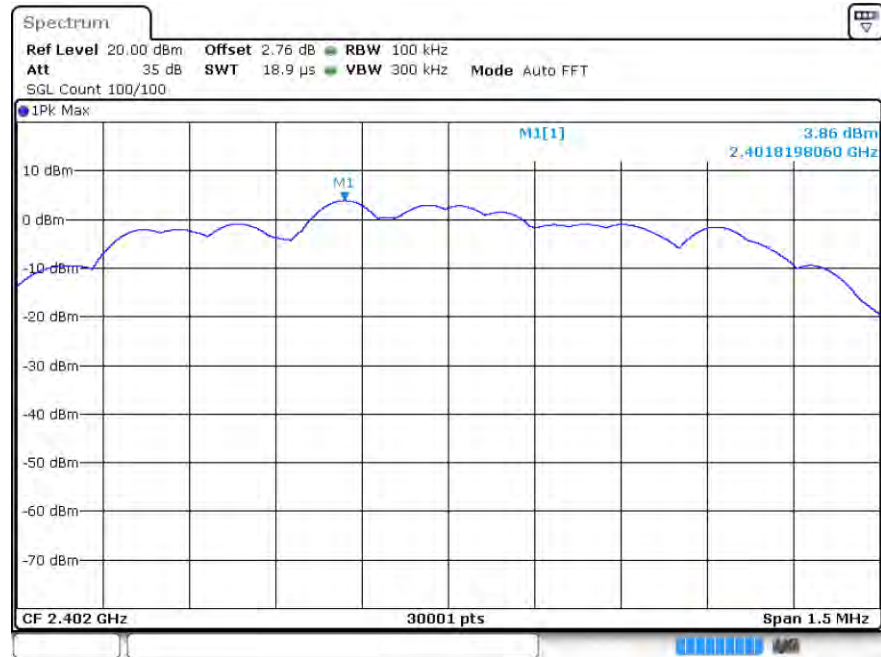


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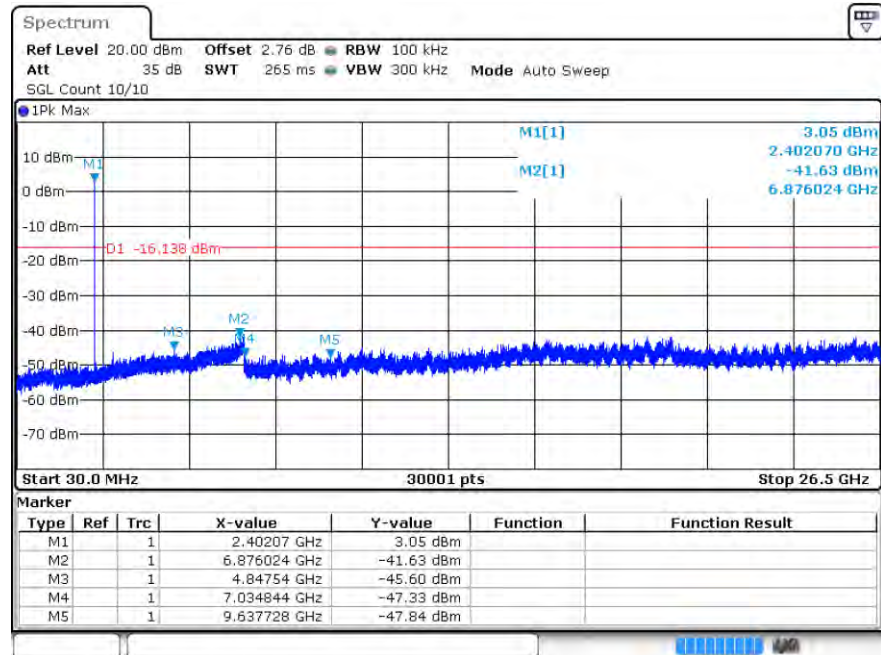


$\pi/4$ DQPSK_LCH_Graphs

Pref

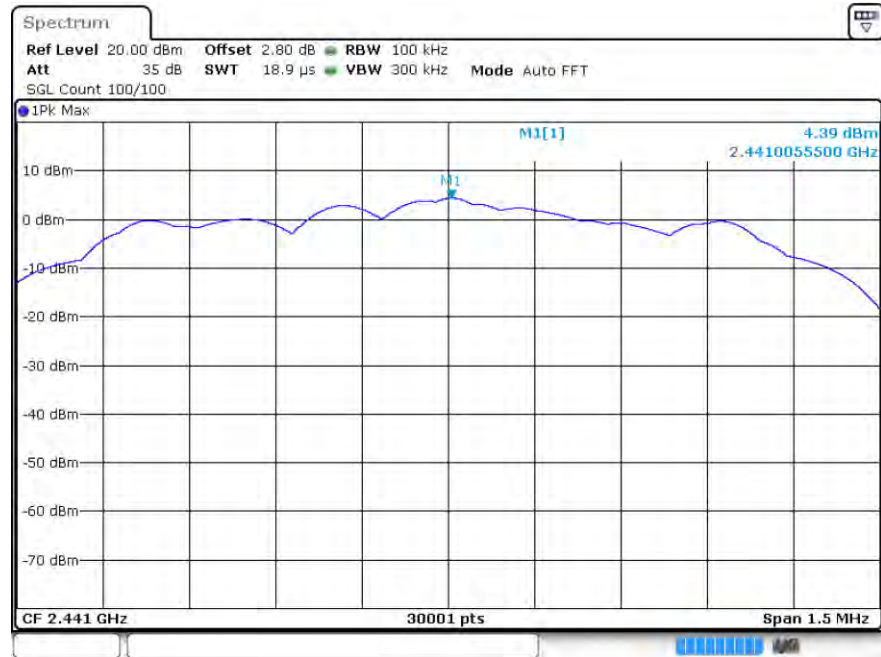


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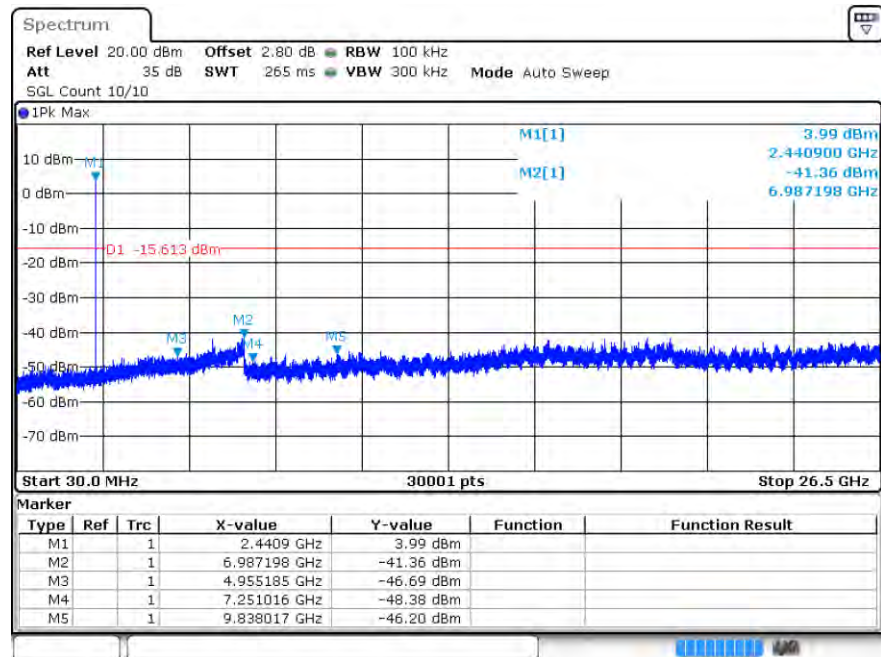


$\pi/4$ DQPSK_MCH_Graphs

Pref

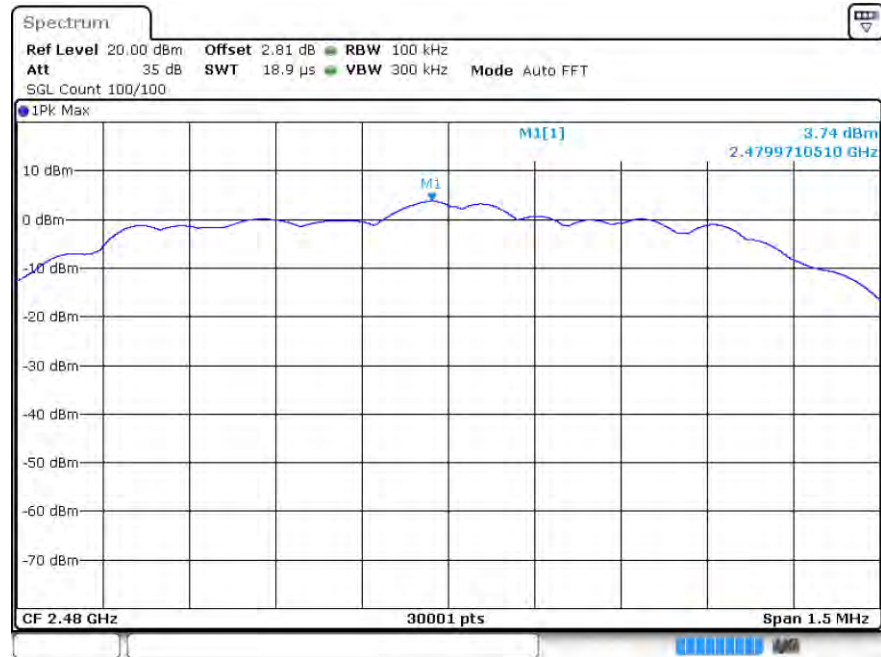


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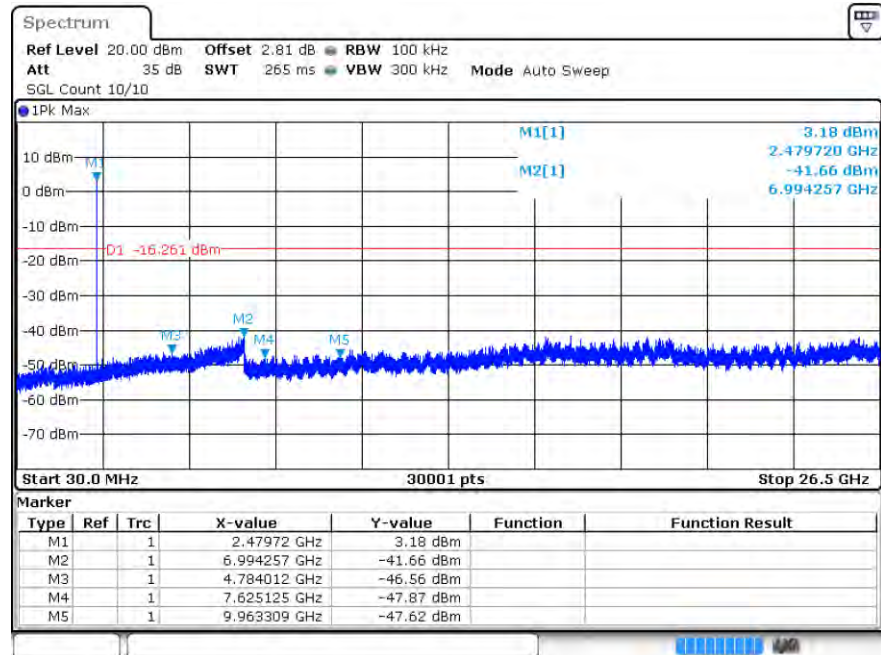


$\pi/4$ DQPSK_HCH_Graphs

Pref

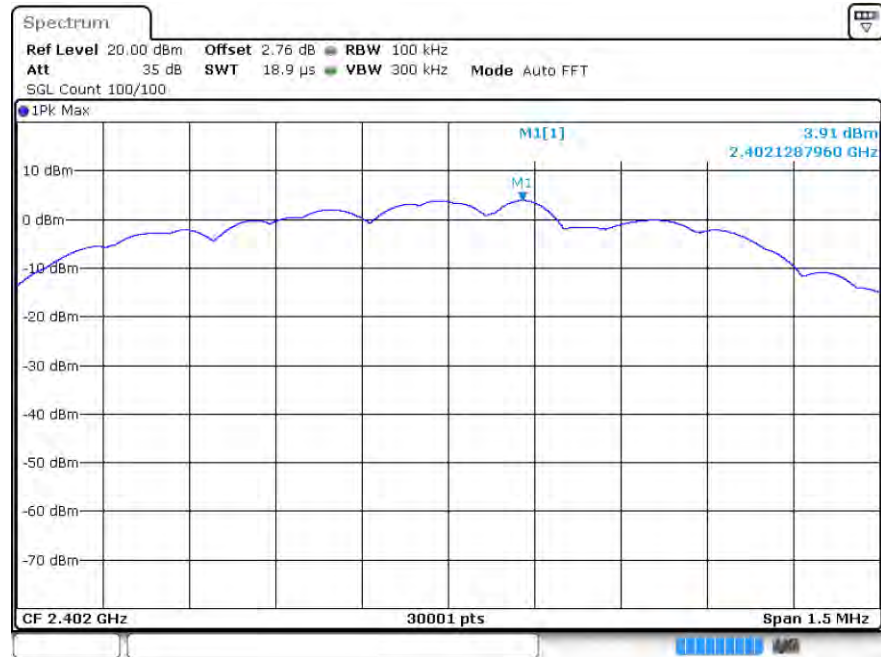


Puw

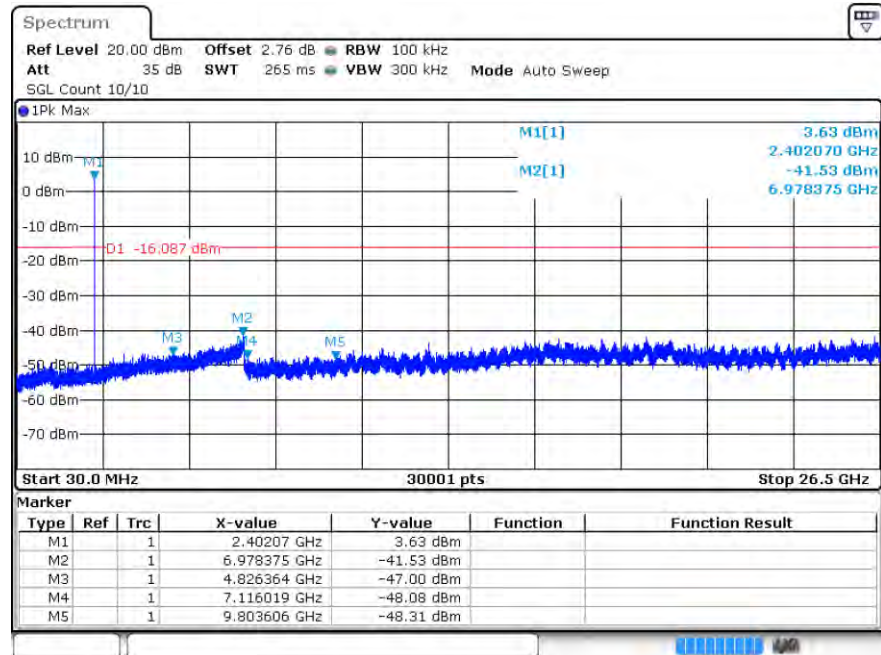


8DPSK_LCH_Graphs

Pref

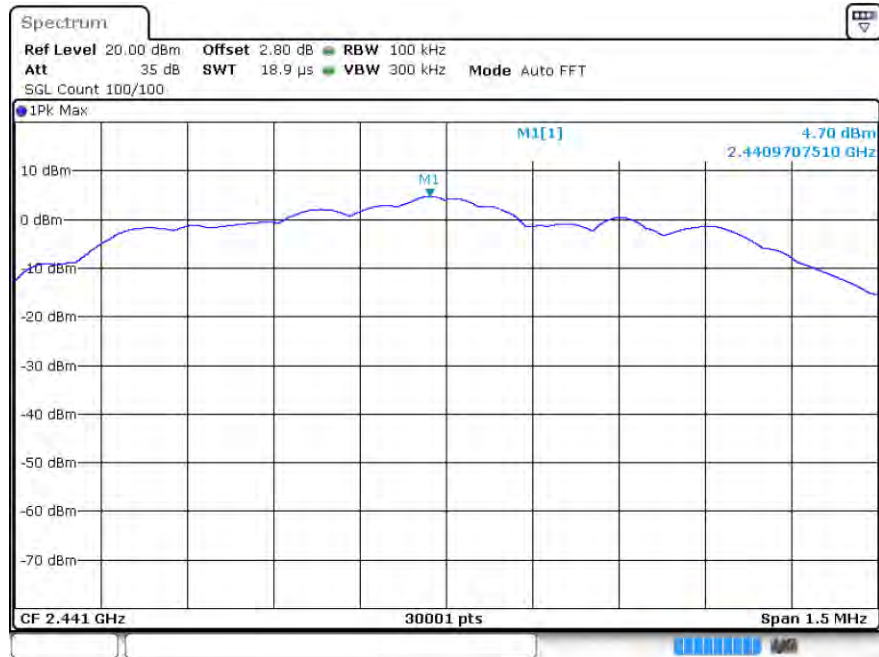


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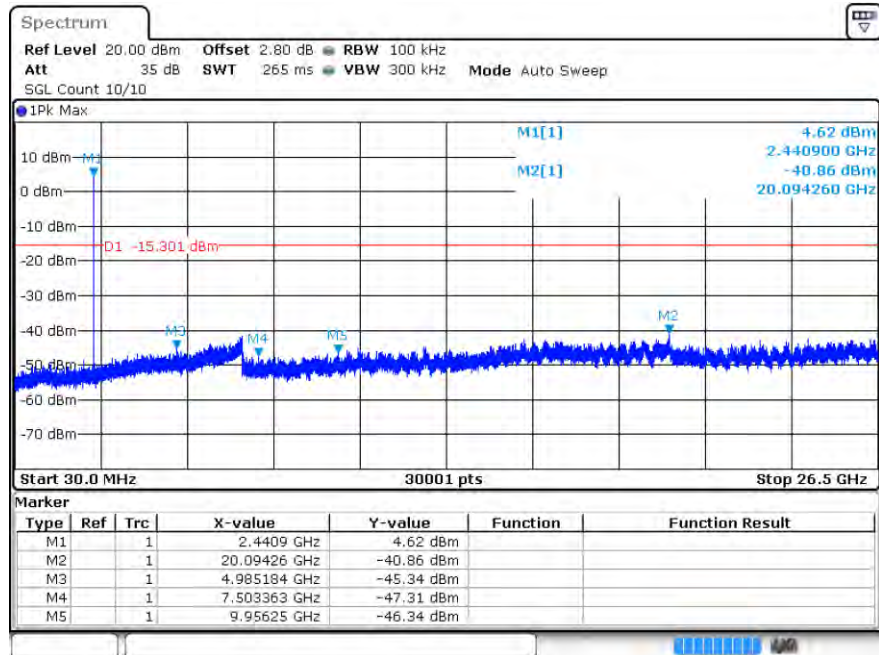


8DPSK_MCH_Graphs

Pref

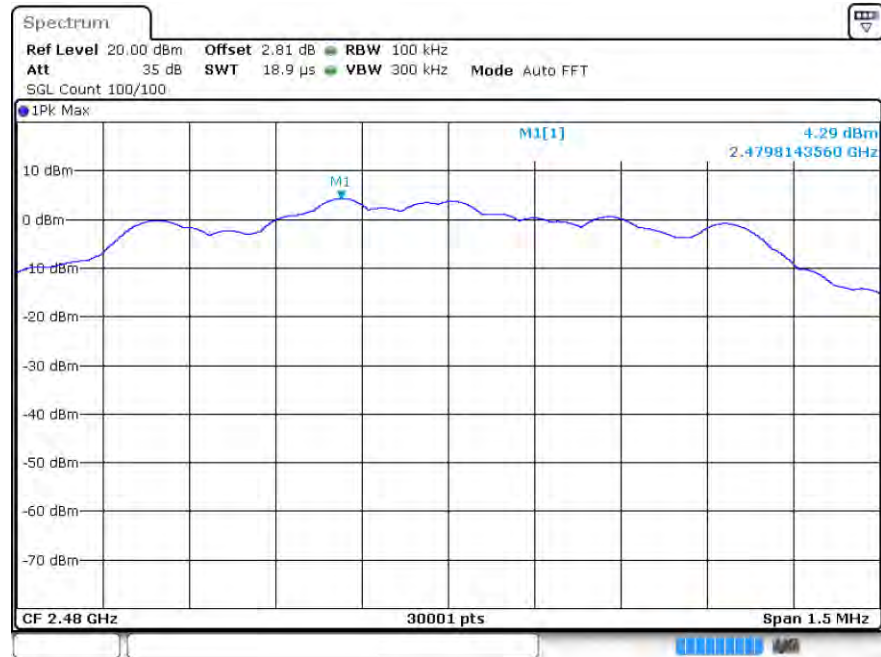


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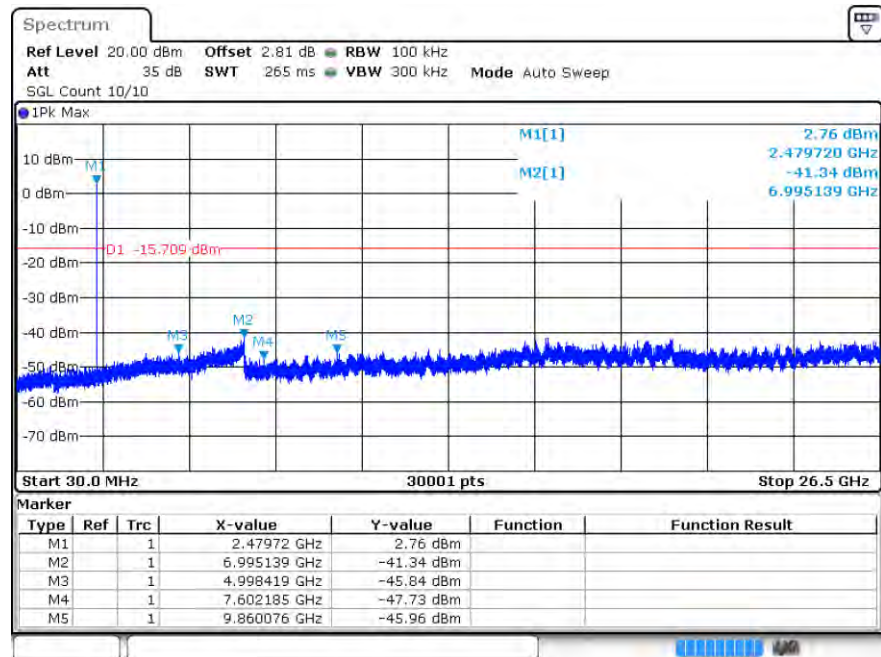


8DPSK_HCH_Graphs

Pref



Puw



8 Band-edge for RF Conducted Emissions

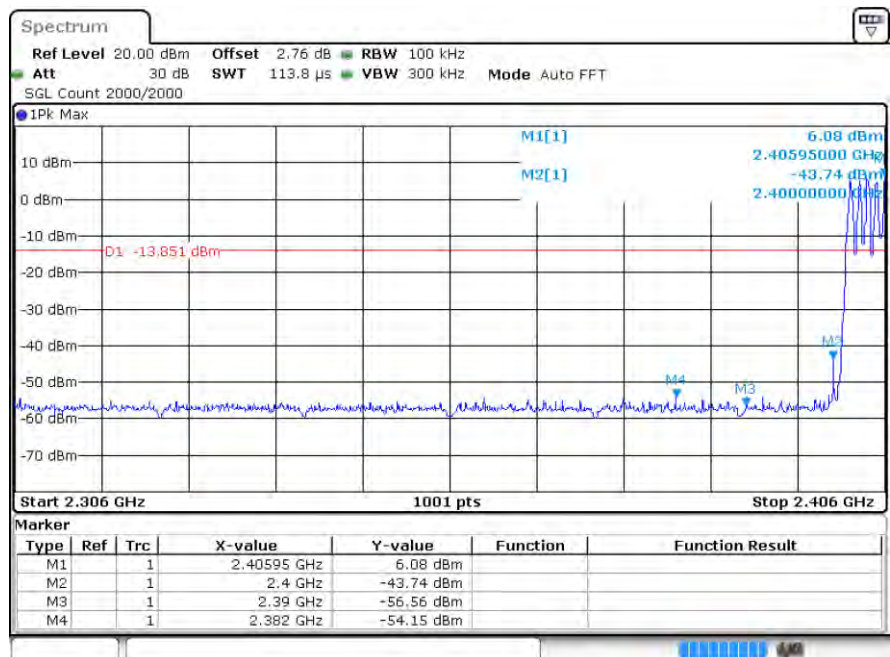
8.1 Test Result

Mode	Channel	Carrier Frequency [MHz]	Frequency Hopping	Max Spurious Level [dBc]	Limit [dBc]	Verdict
GFSK	LCH	2402	Off	-60.36	-20	Pass
			On	-60.3	-20	Pass
	HCH	2480	Off	-54.3	-20	Pass
			On	-60.17	-20	Pass
$\pi/4$ DQPSK	LCH	2402	Off	-60.13	-20	Pass
			On	-58.03	-20	Pass
	HCH	2480	Off	-54.47	-20	Pass
			On	-53.2	-20	Pass
8DPSK	LCH	2402	Off	-60.49	-20	Pass
			On	-57.3	-20	Pass
	HCH	2480	Off	-52.12	-20	Pass
			On	-53.73	-20	Pass

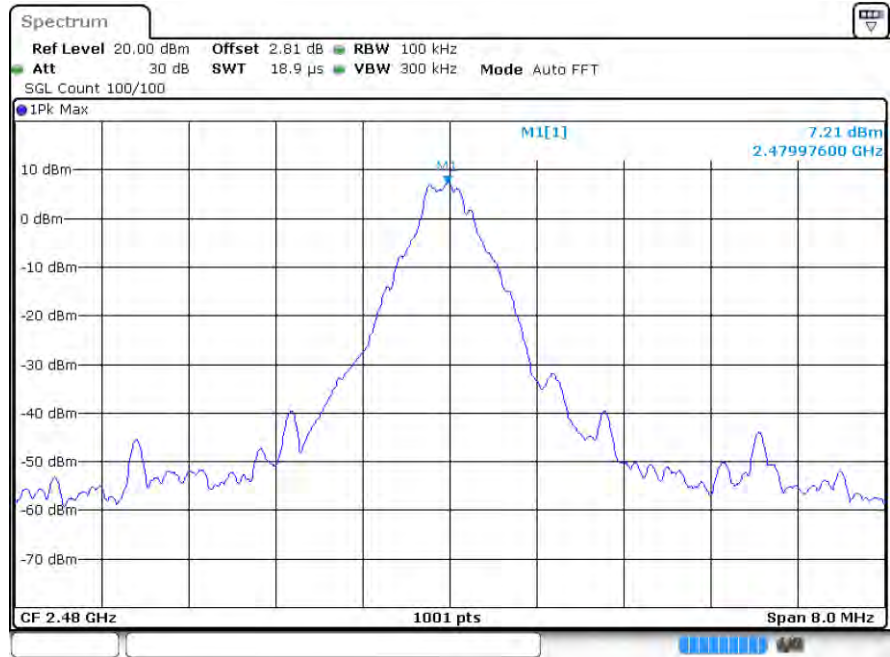
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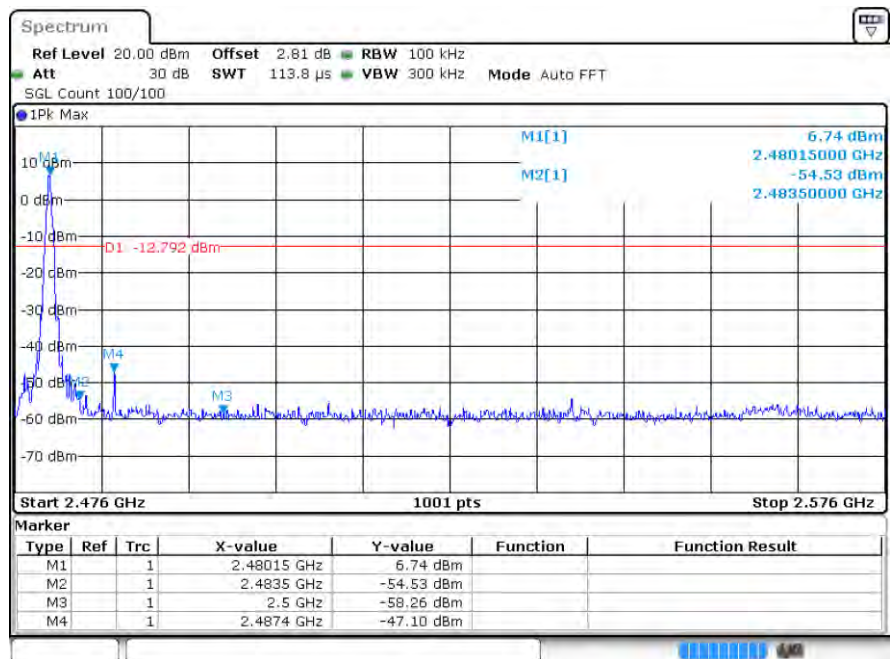
GFSK/LCH/Hop



Ref



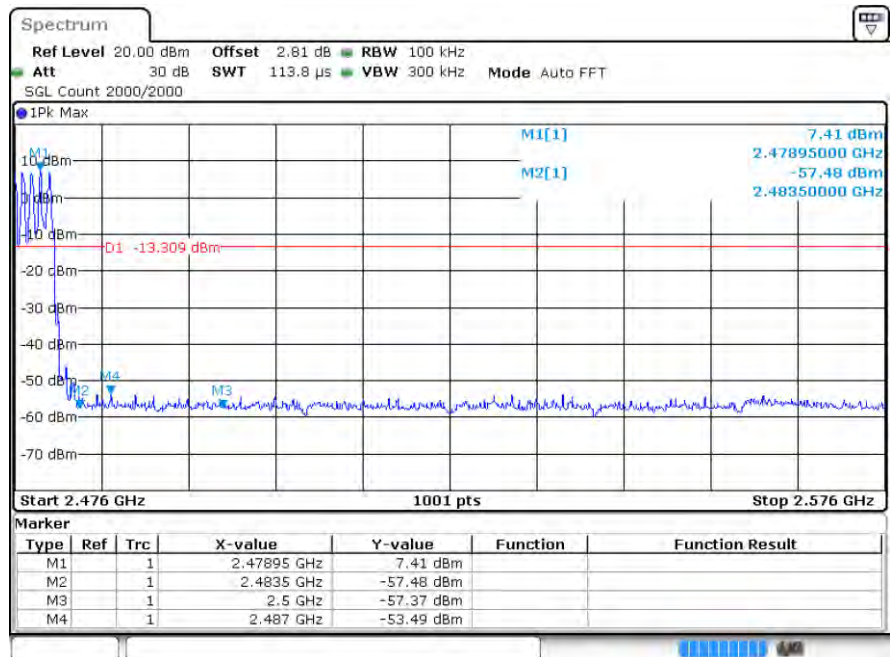
GFSK/HCH/No Hop



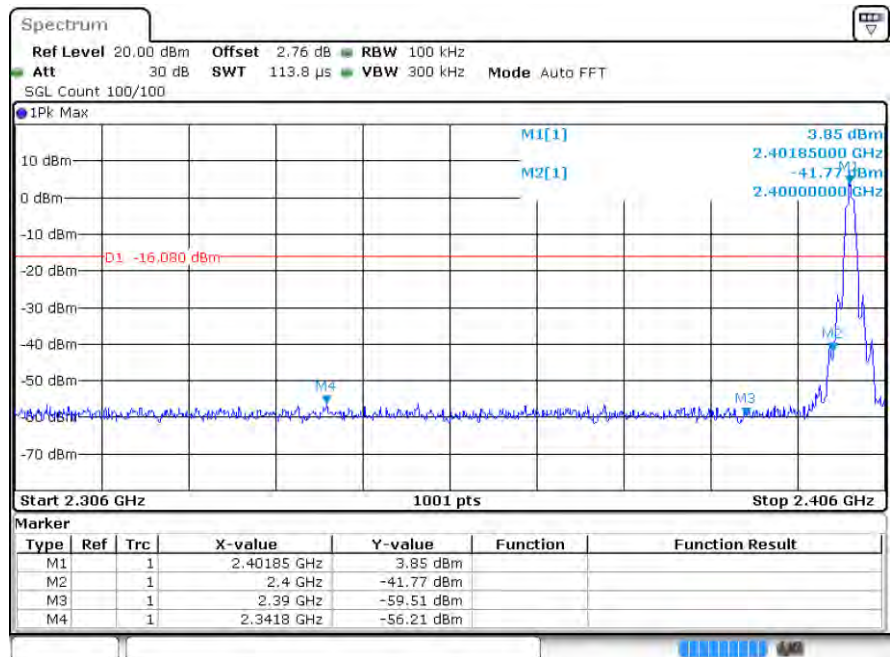
Ref.



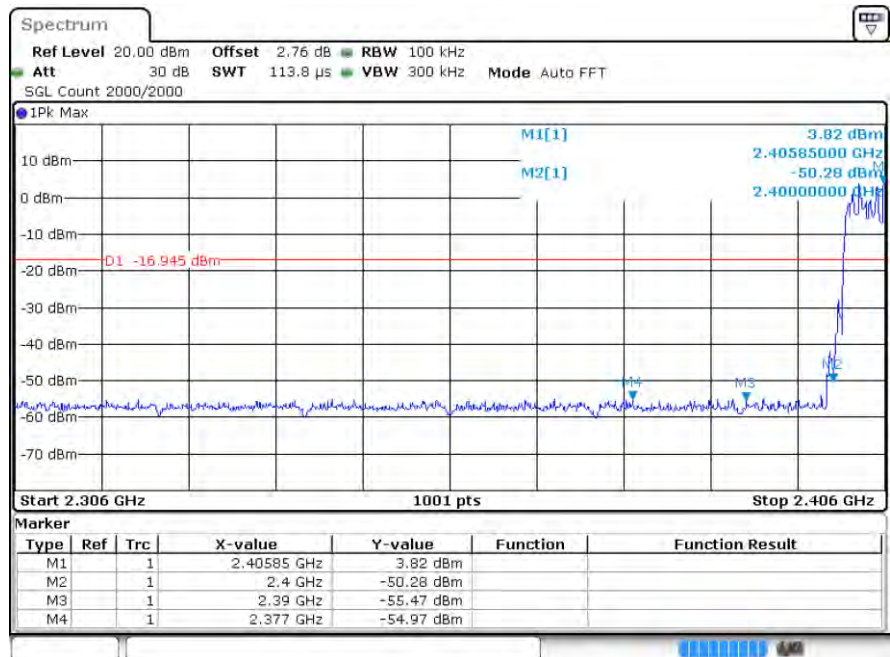
GFSK/HCH/Hop



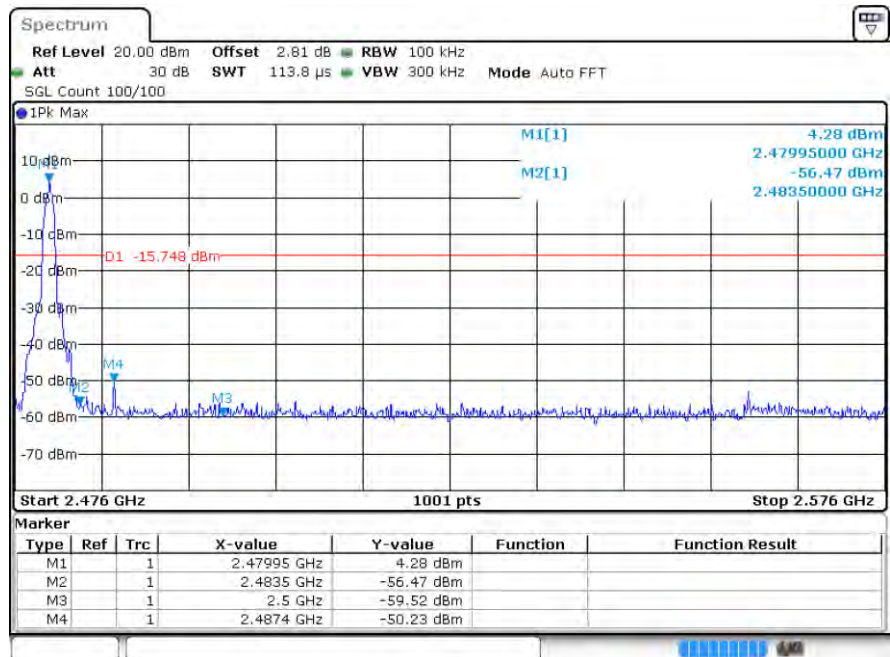
Ref


 $\pi/4$ DQPSK/LCH/No Hop


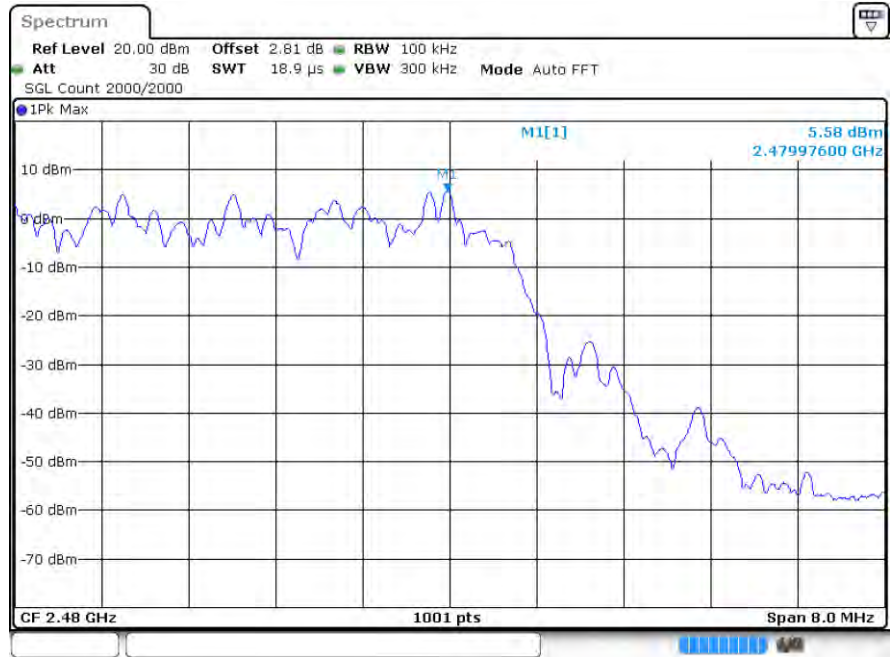
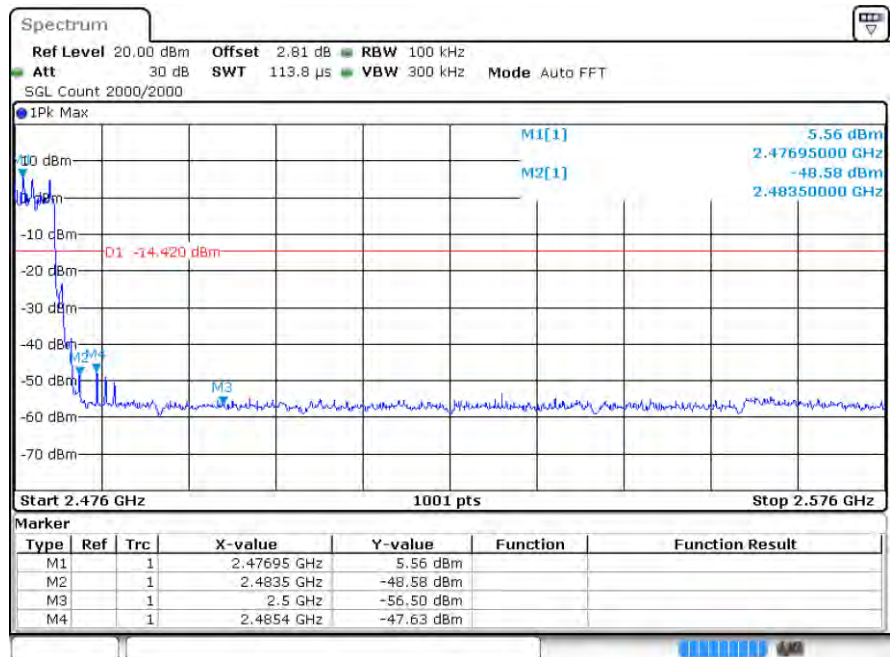
Ref


 $\pi/4$ DQPSK/LCH/Hop


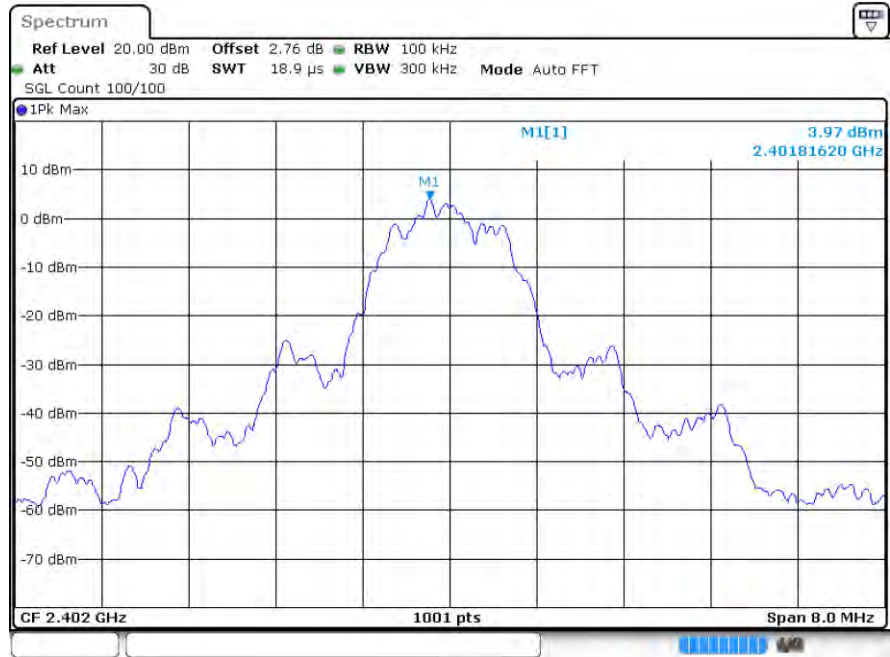
Ref


 $\pi/4$ DQPSK/HCH/No
Hop


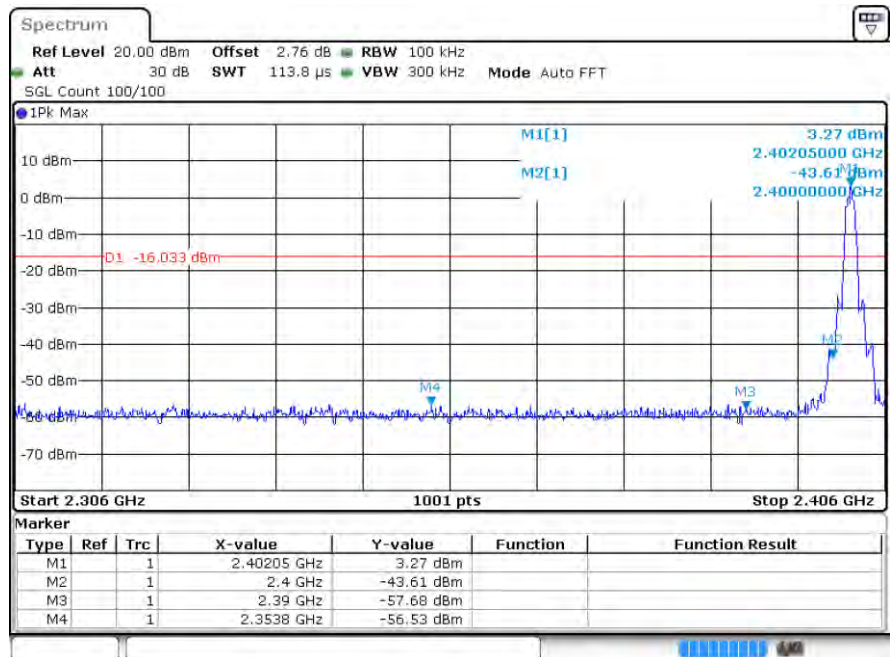
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 $\pi/4$ DQPSK/HCH/Hop


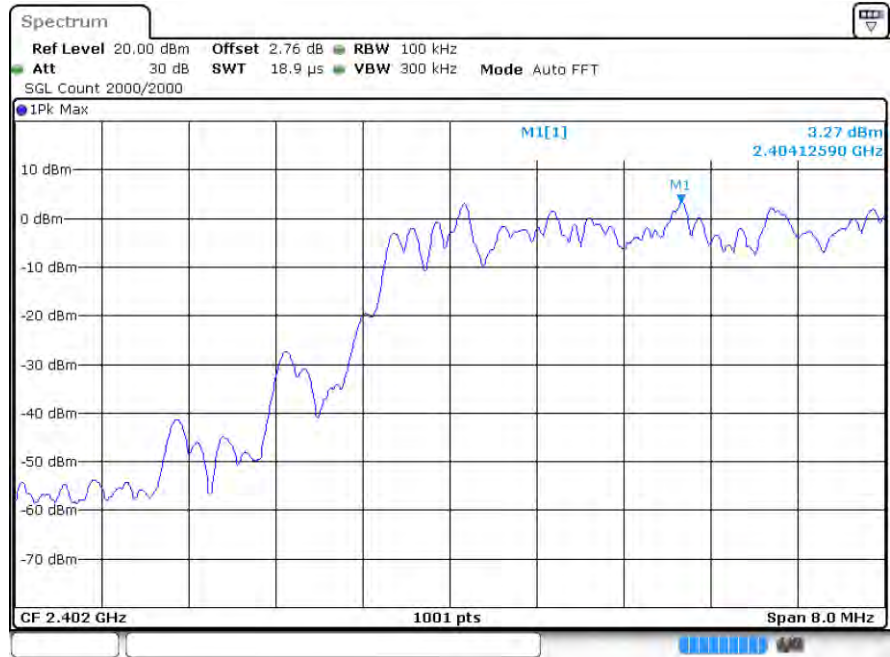
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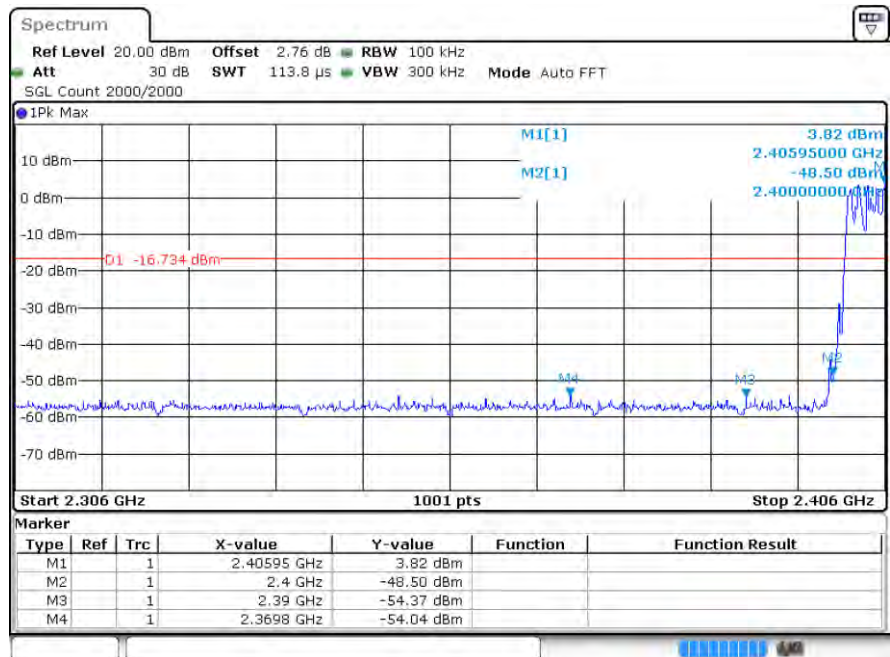
8DPSK/LCH/No Hop



Ref



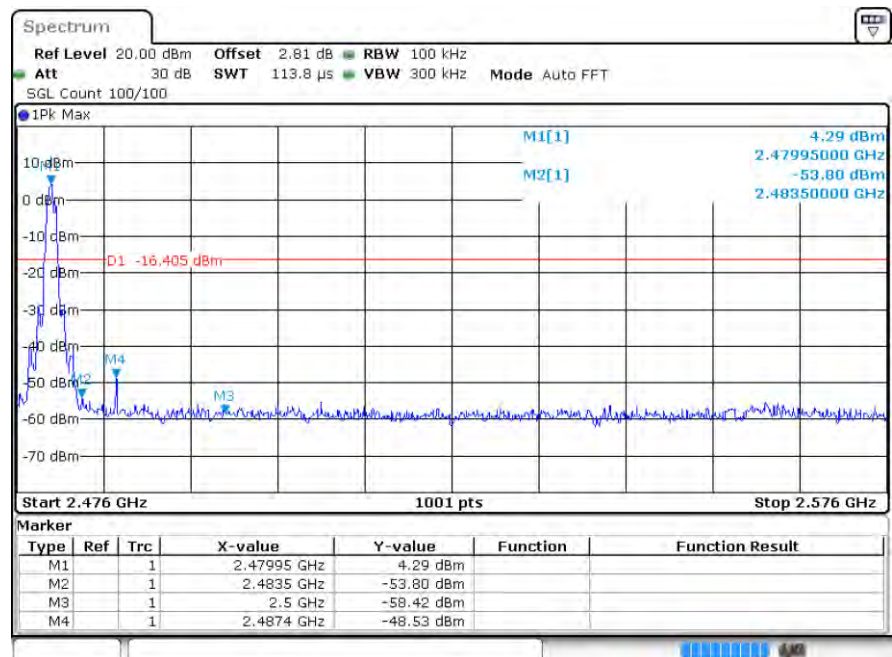
8DPSK/LCH/Hop



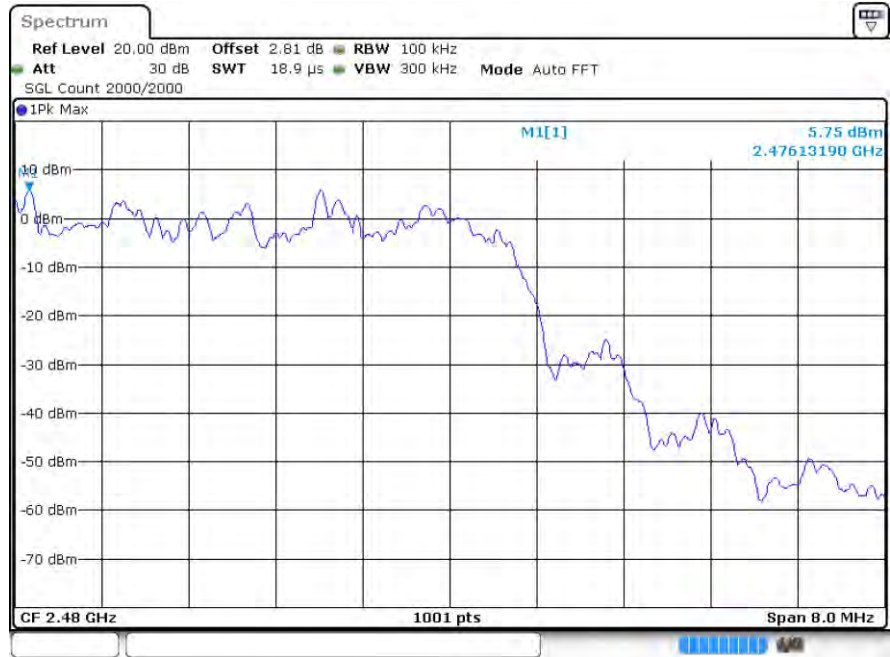
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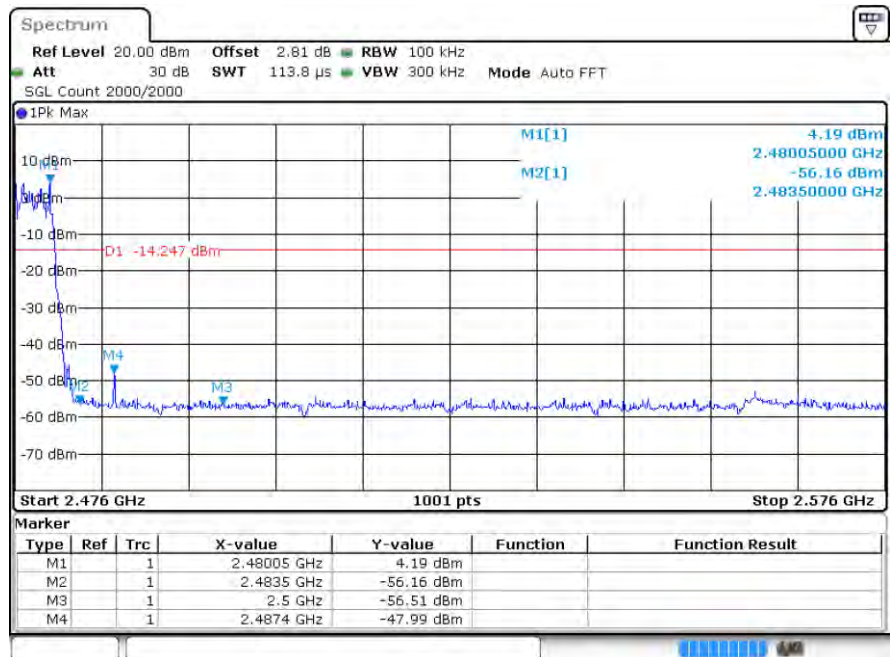
8DPSK/HCH/No Hop



Ref



8DPSK/HCH/Hop



9 Restrict-band band-edge measurements

9.1 Test Result

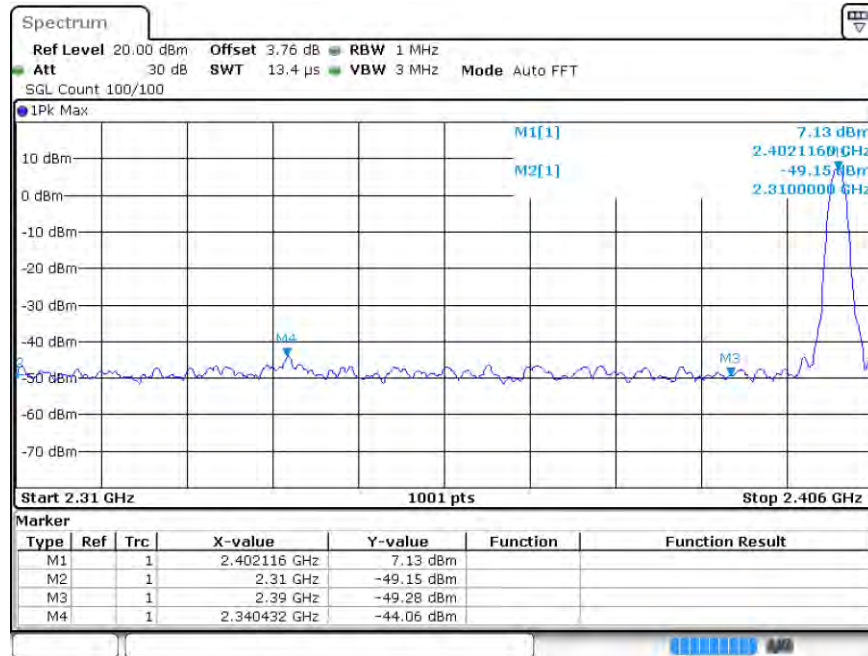
Test Mode	Hopping	Freq.	Power [dBm]	Gain	E [dBuV/m]	Detector	Limit [dBuV/m]	Verdict
GFSK	Off	2310.0	-49.15	3.743	49.82	PEAK	74	Pass
	Off	2310.0	-56.75	3.743	42.22	AV	54	Pass
	Off	2340.432	-44.05	3.743	54.92	PEAK	74	Pass
	Off	2342.064	-54.62	3.743	44.35	AV	54	Pass
	Off	2390.0	-49.28	3.743	49.69	PEAK	74	Pass
	Off	2390.0	-56.77	3.743	42.20	AV	54	Pass
	Off	2483.5	-44.34	3.743	54.63	PEAK	74	Pass
	Off	2483.5	-52.67	3.743	46.30	AV	54	Pass
	Off	2483.512	-44.34	3.743	54.63	PEAK	74	Pass
	Off	2483.512	-52.67	3.743	46.30	AV	54	Pass
	Off	2500.0	-48.85	3.743	50.12	PEAK	74	Pass
	Off	2500.0	-56.46	3.743	42.51	AV	54	Pass
$\pi/4$ DQPSK	Off	2310.0	-48.14	3.743	50.83	PEAK	74	Pass
	Off	2310.0	-56.79	3.743	42.18	AV	54	Pass
	Off	2342.64	-45.01	3.743	53.96	PEAK	74	Pass
	Off	2342.064	-54.51	3.743	44.46	AV	54	Pass
	Off	2390.0	-47.09	3.743	51.88	PEAK	74	Pass
	Off	2390.0	-56.42	3.743	42.55	AV	54	Pass
	Off	2483.5	-46.22	3.743	52.75	PEAK	74	Pass
	Off	2483.5	-52.91	3.743	46.06	AV	54	Pass
	Off	2487.496	-44.12	3.743	54.85	PEAK	74	Pass
	Off	2483.512	-52.91	3.743	46.06	AV	54	Pass
	Off	2500.0	-47.56	3.743	51.41	PEAK	74	Pass
	Off	2500.0	-55.5	3.743	43.47	AV	54	Pass
8DPSK	Off	2310.0	-50.3	3.743	48.67	PEAK	74	Pass
	Off	2310.0	-56.98	3.743	41.99	AV	54	Pass
	Off	2338.8	-44.78	3.743	54.19	PEAK	74	Pass
	Off	2342.064	-54.62	3.743	44.35	AV	54	Pass



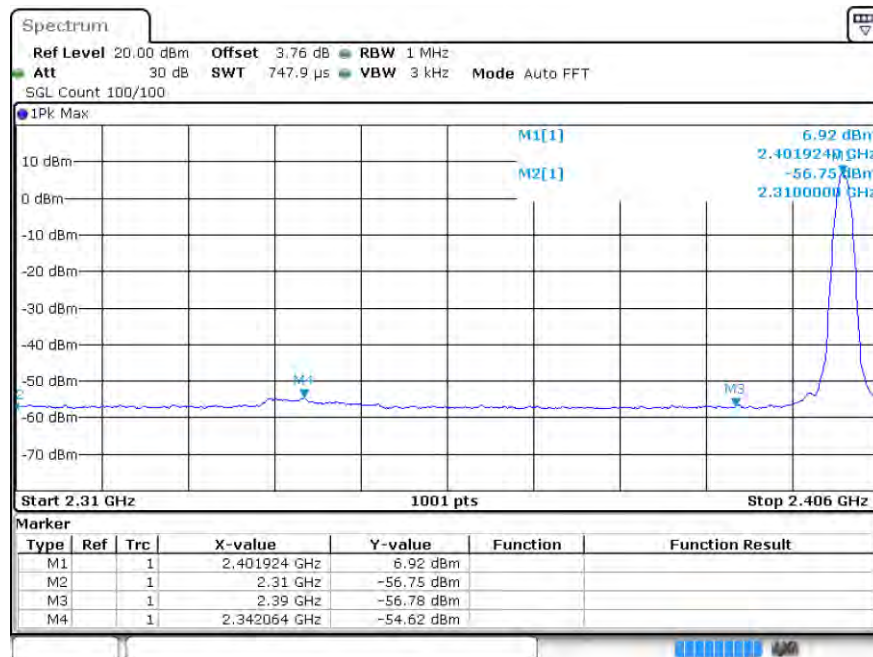
	Off	2390.0	-48.84	3.743	50.13	PEAK	74	Pass
	Off	2390.0	-56.57	3.743	42.40	AV	54	Pass
	Off	2483.5	-46.12	3.743	52.85	PEAK	74	Pass
	Off	2483.5	-52.7	3.743	46.27	AV	54	Pass
	Off	2484.856	-45.09	3.743	53.88	PEAK	74	Pass
	Off	2483.512	-52.7	3.743	46.27	AV	54	Pass
	Off	2500.0	-47.98	3.743	50.99	PEAK	74	Pass
	Off	2500.0	-56.58	3.743	42.39	AV	54	Pass

9.2 Test Graphs

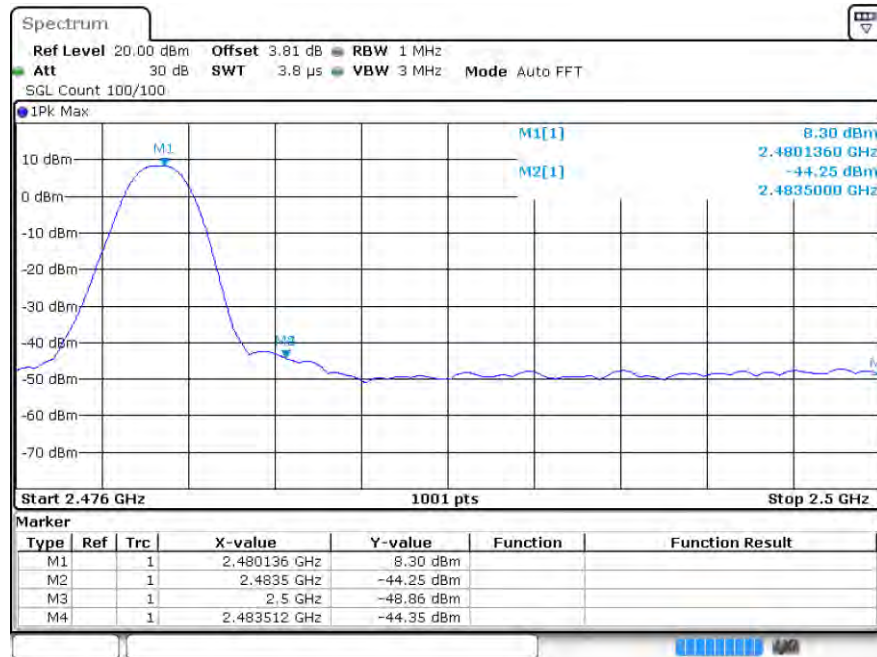
Restrict-band band-edge measurements_Hopping Off_ GFSK_PEAK (Low Channel)



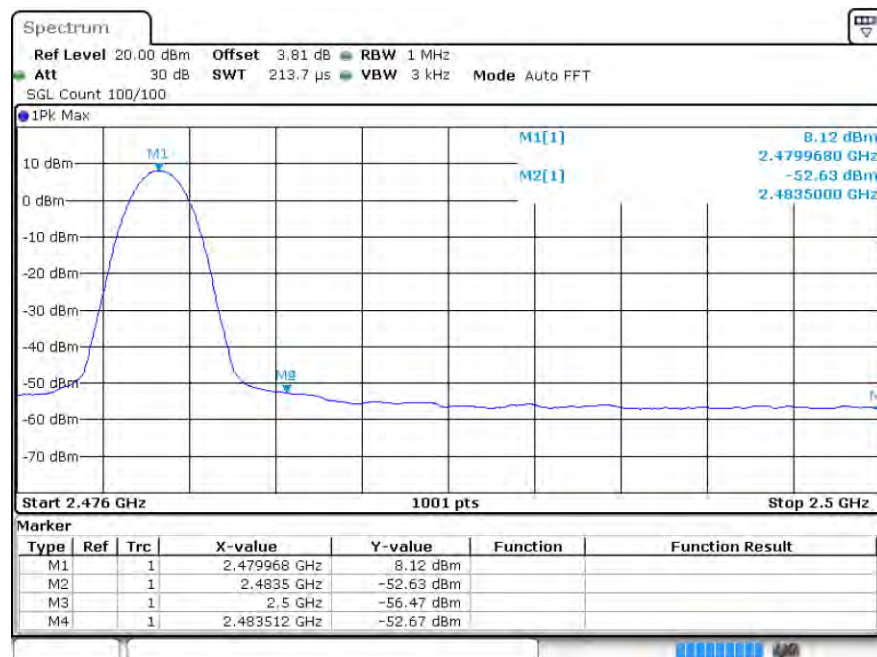
Restrict-band band-edge measurements_Hopping Off_ GFSK_Average (Low Channel)



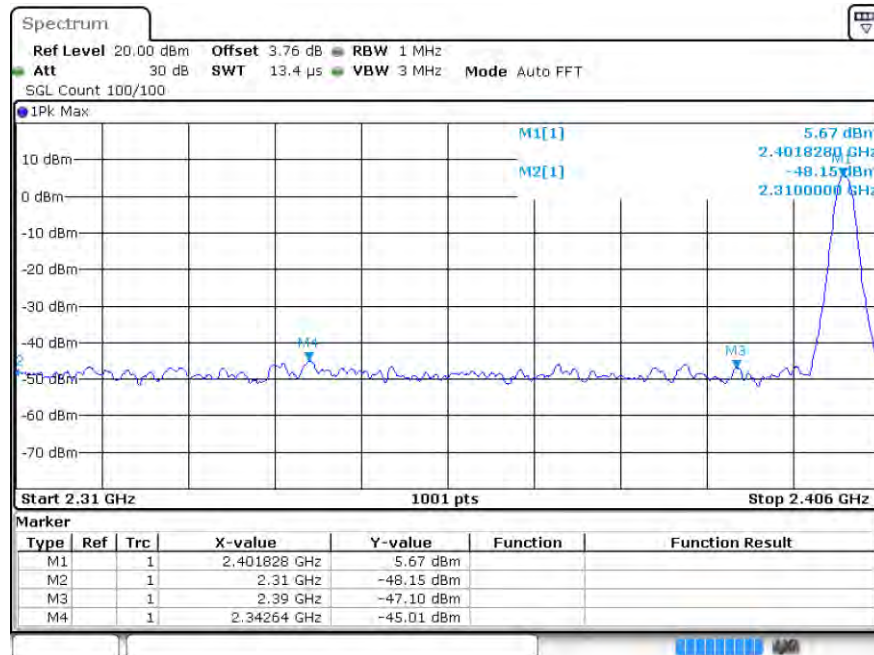
Restrict-band band-edge measurements_Hopping Off_ GFSK_PEAK (High Channel)



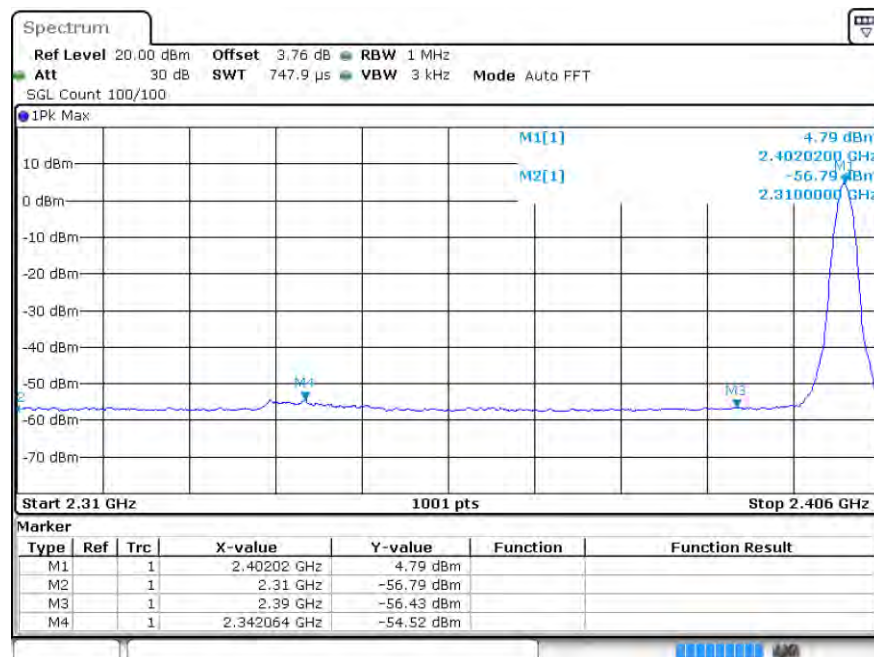
Restrict-band band-edge measurements_Hopping Off_ GFSK_Average (High Channel)



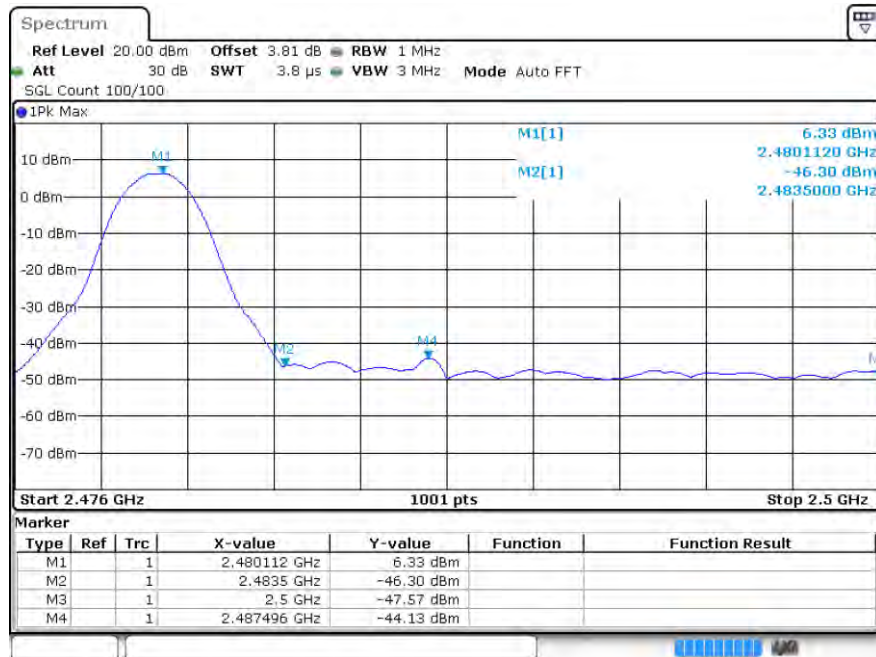
Restrict-band band-edge measurements_Hopping Off_π/4-DQPSK_PEAK (Low Channel)



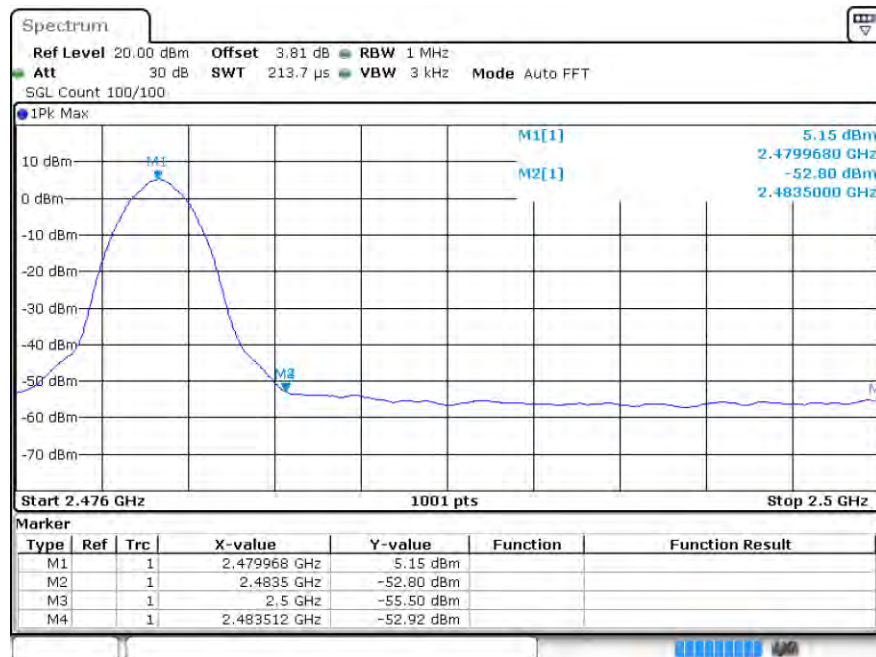
Restrict-band band-edge measurements_Hopping Off_π/4-DQPSK_Average (Low Channel)



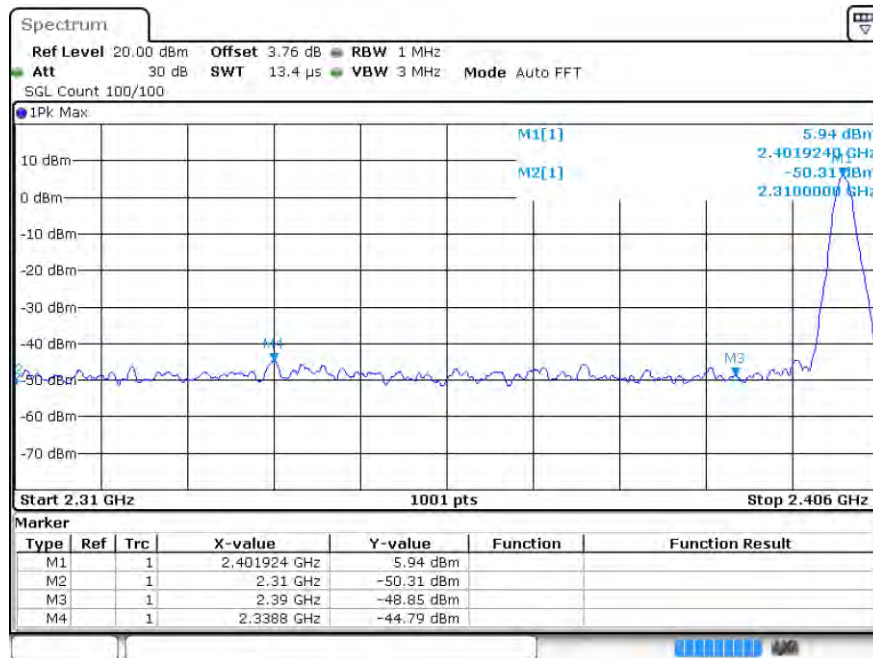
Restrict-band band-edge measurements_Hopping Off_π/4-DQPSK_PEAK (High Channel)



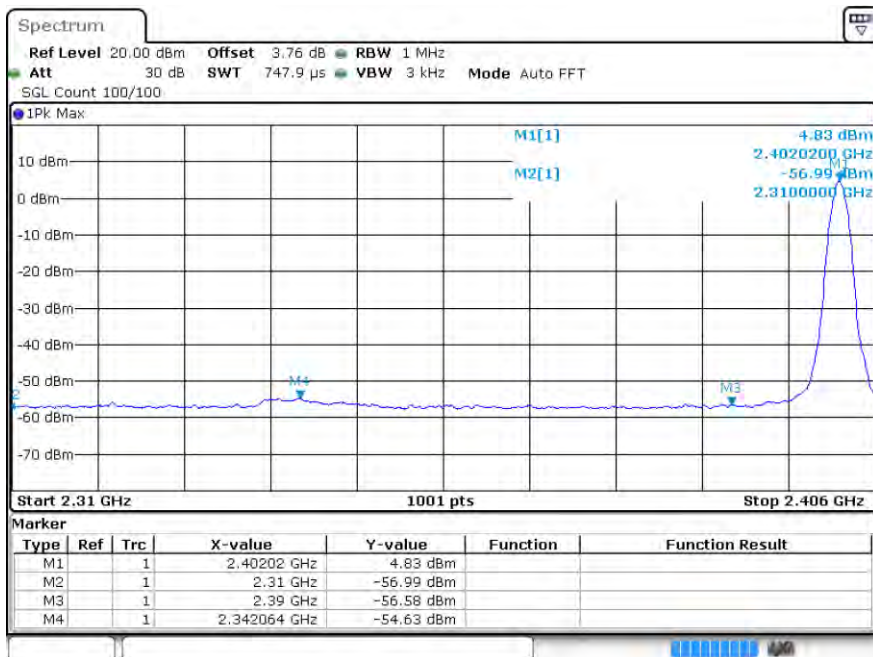
Restrict-band band-edge measurements_Hopping Off_π/4-DQPSK_Average (High Channel)



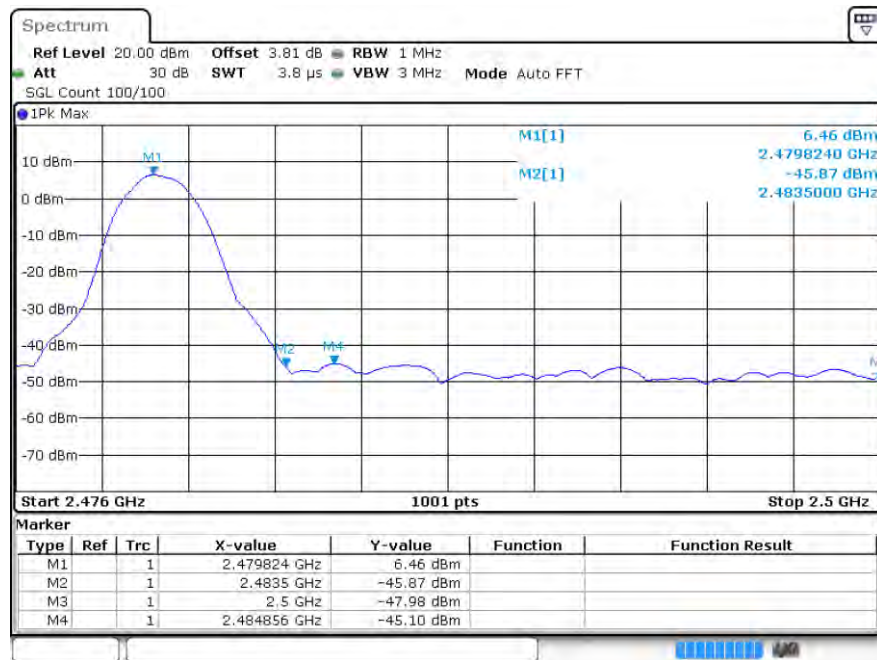
Restrict-band band-edge measurements_Hopping Off_8DPSK_PEAK (Low Channel)



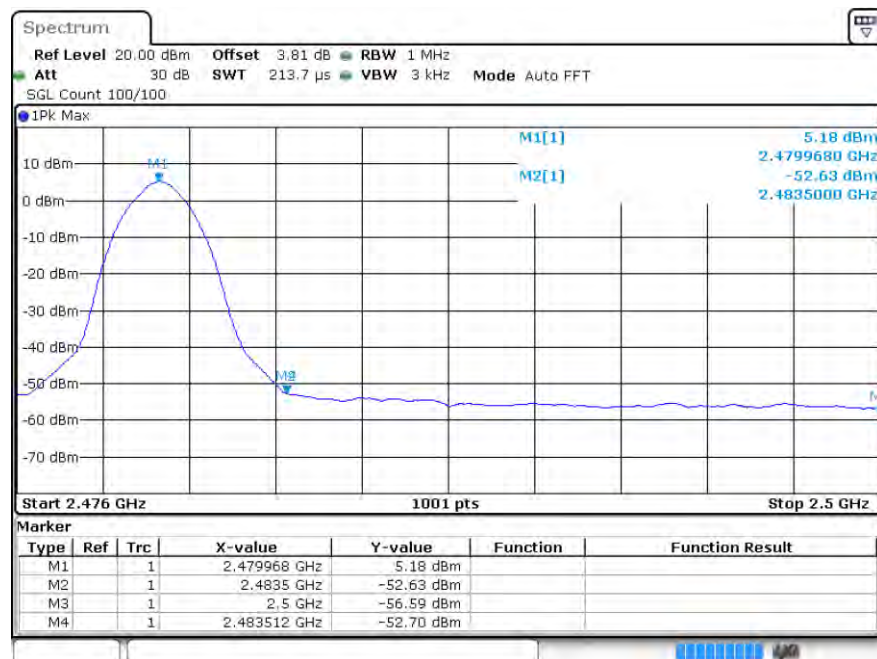
Restrict-band band-edge measurements_Hopping Off_8DPSK_Average (Low Channel)



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



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



---The End---