



Appendix A

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

Product Name: ALL IN ONE MUSIC SYSTEM

Trade Mark: ONKYO

Test Model: GX-AiO100

Environmental Conditions

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



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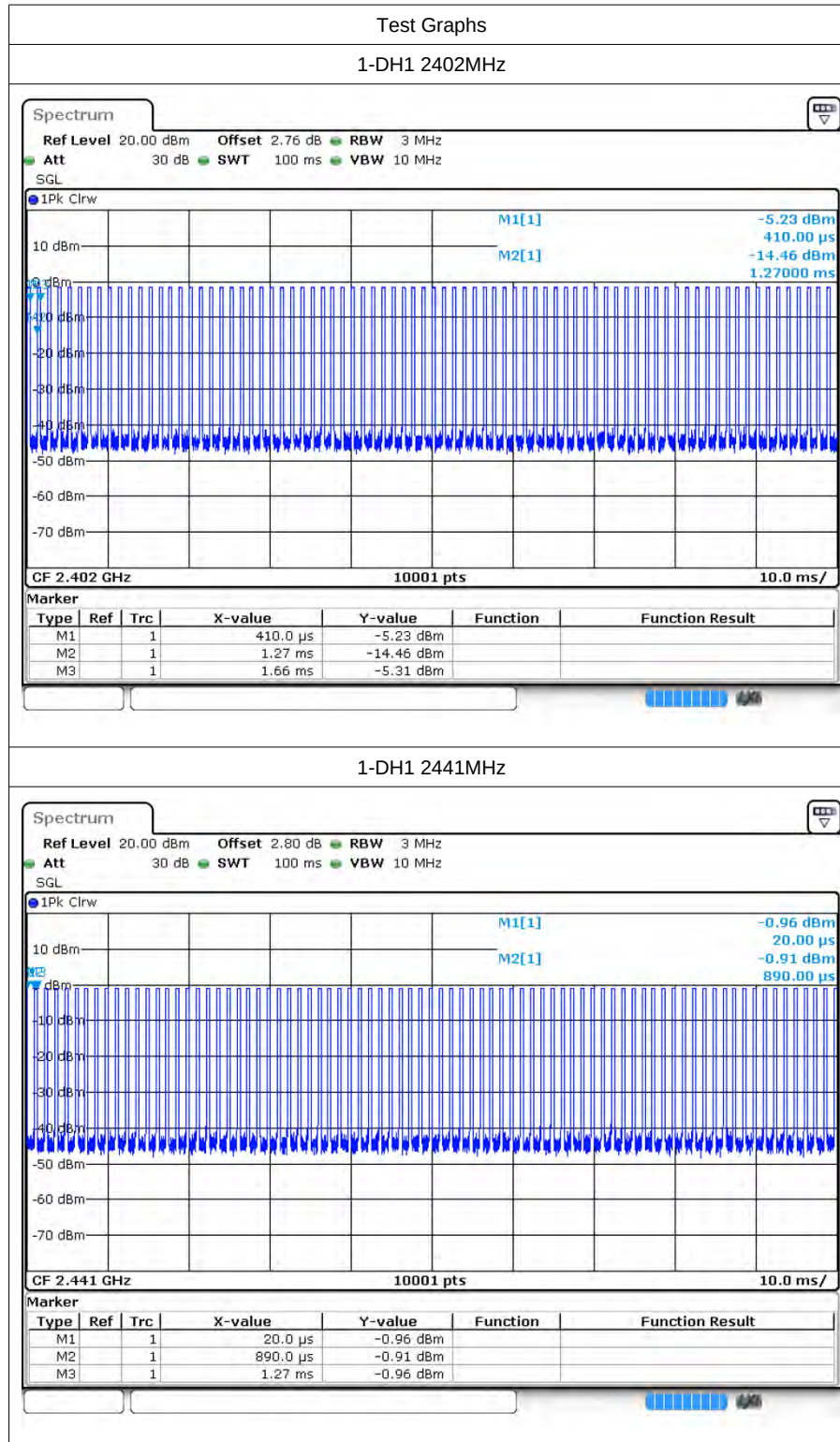
1 Duty Cycle

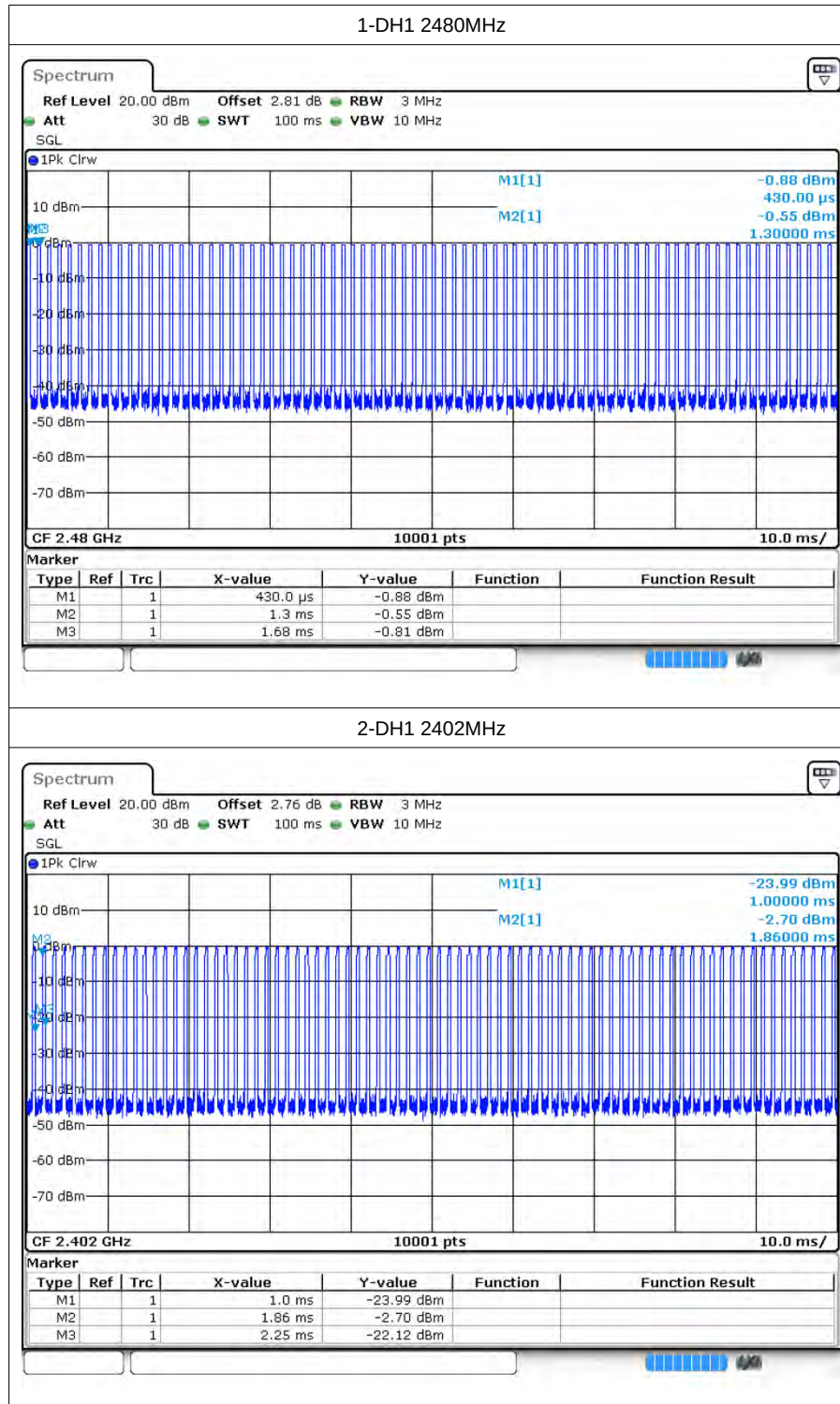
1.1 Test Result

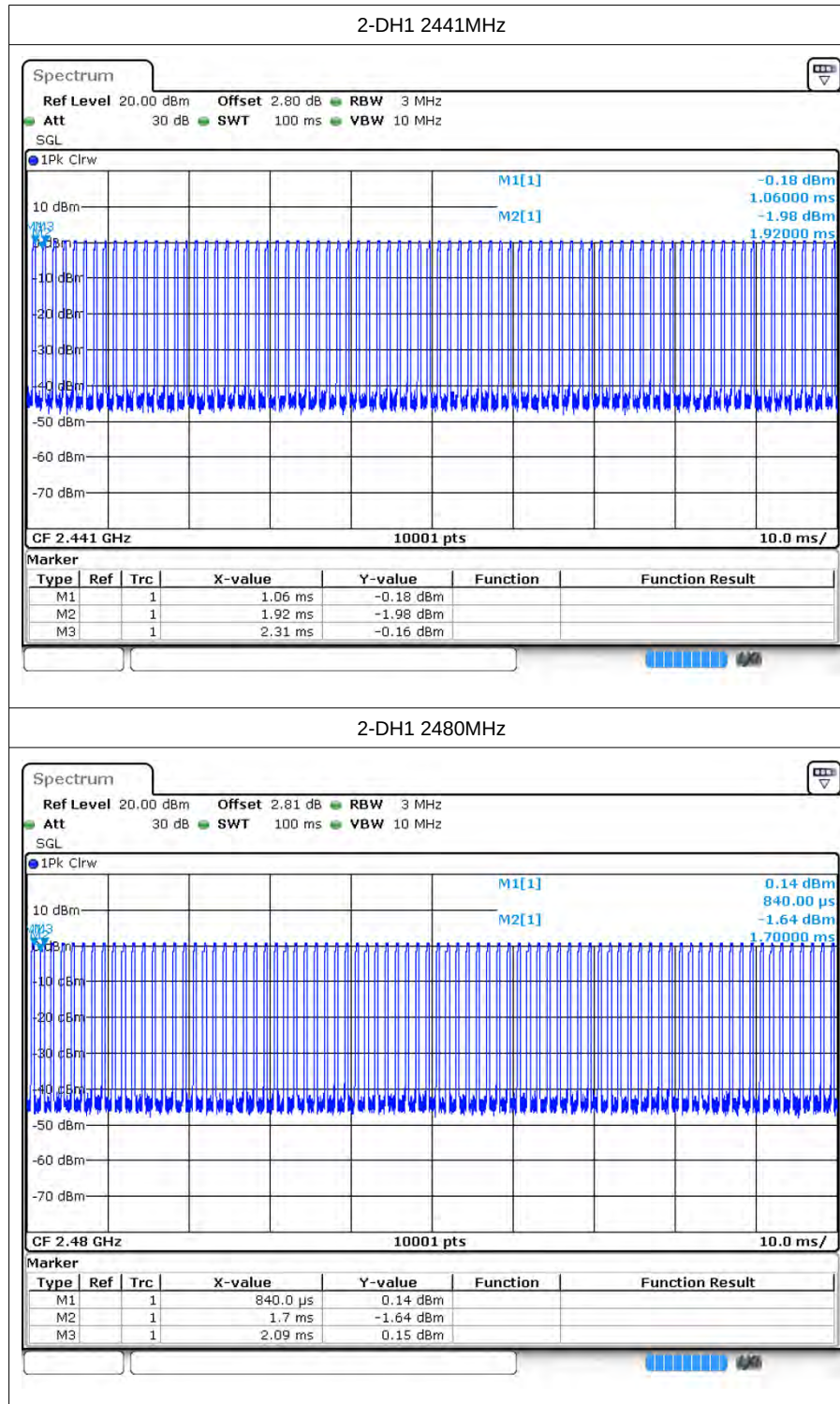
Mode	Frequency (MHz)	Duty Cycle (%)	Correction Factor	1/T (kHz)
1-DH1	2402	31.33	5.04	2.56
1-DH1	2441	31.21	5.06	2.63
1-DH1	2480	31.2	5.06	2.63
2-DH1	2402	32	4.95	2.56
2-DH1	2441	32	4.95	2.56
2-DH1	2480	32	4.95	2.56
3-DH1	2402	32.01	4.95	2.56
3-DH1	2441	32	4.95	2.56
3-DH1	2480	32	4.95	2.56

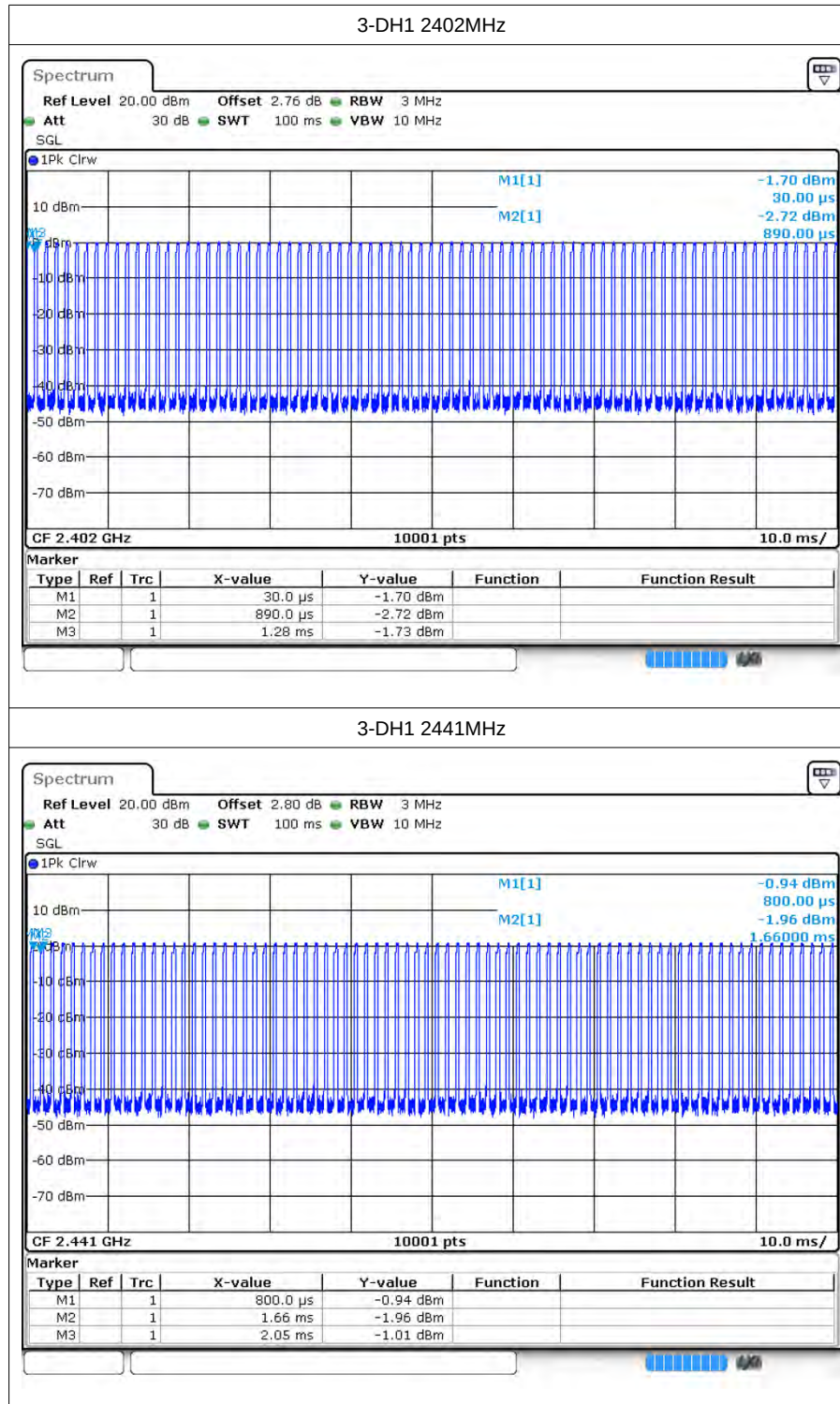
1.2 Test Graphs

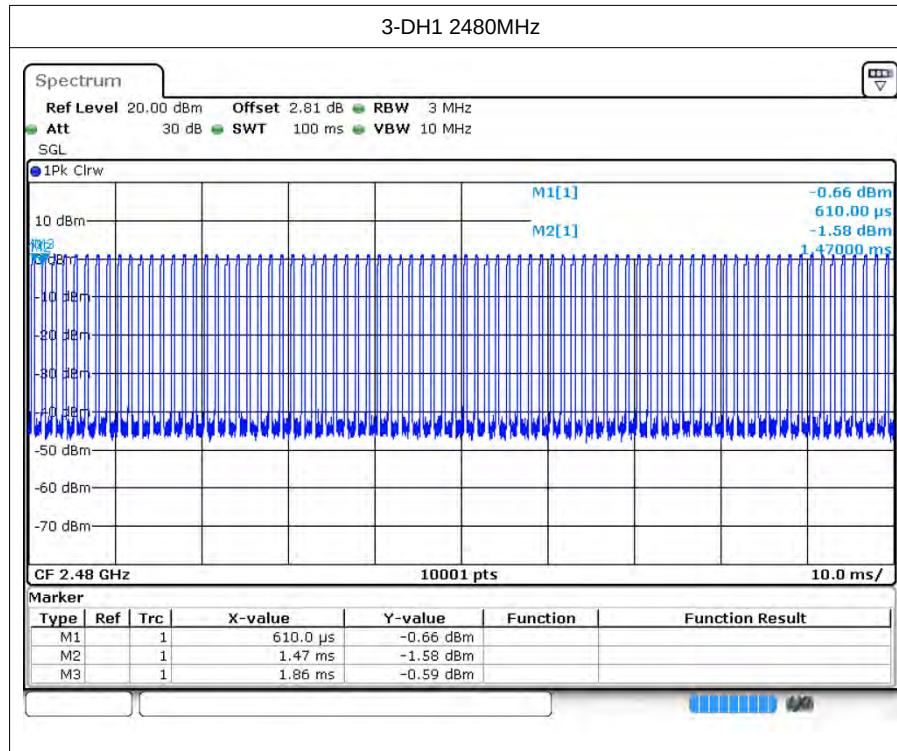
Model name:	GX-AiO100	Test Date :	2026-07-22
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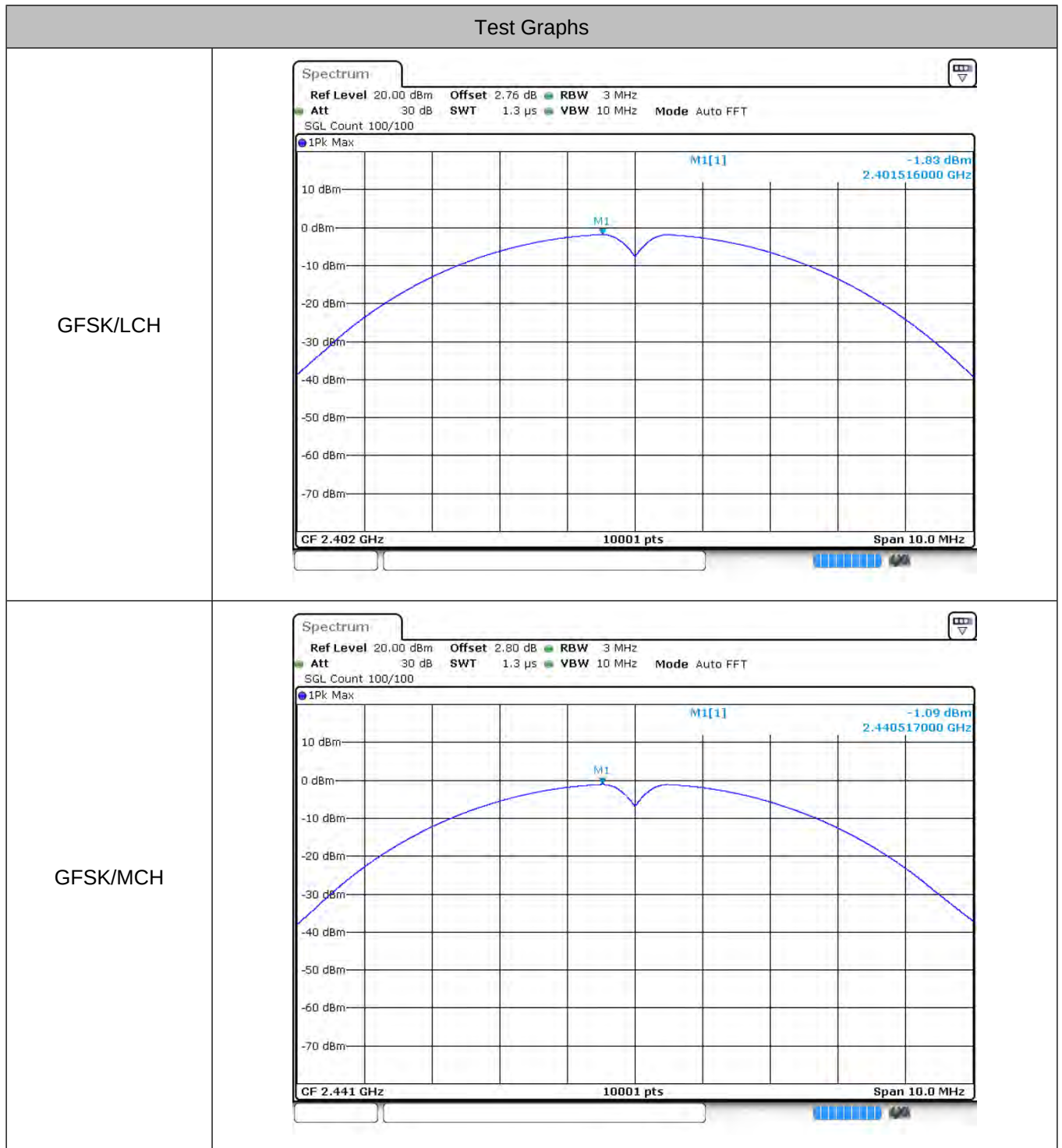
2 Maximum Conducted Peak Output Power

2.1 Test Result

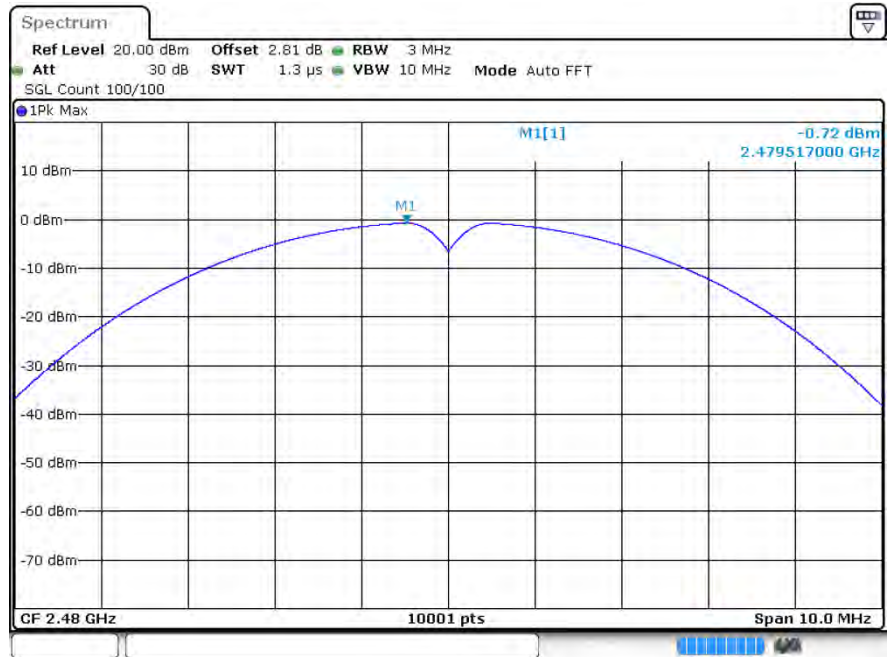
Mode	Channel.	Maximum Peak Output Power [dBm]	Limit [dBm]	Verdict
GFSK	LCH	-1.83	21	Pass
	MCH	-1.09	21	Pass
	HCH	-0.72	21	Pass
$\pi/4$ DQPSK	LCH	-0.73	21	Pass
	MCH	-0.32	21	Pass
	HCH	0.19	21	Pass
8DPSK	LCH	-0.81	21	Pass
	MCH	-0.32	21	Pass
	HCH	0.39	21	Pass

2.2 Test Graphs

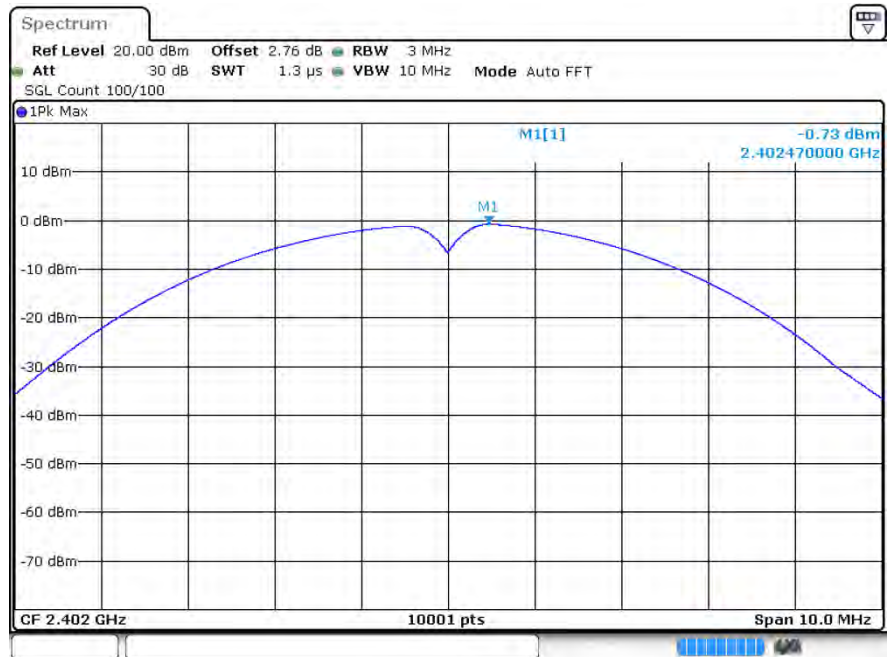
Model name:	GX-AiO100	Test Date :	2026-07-22
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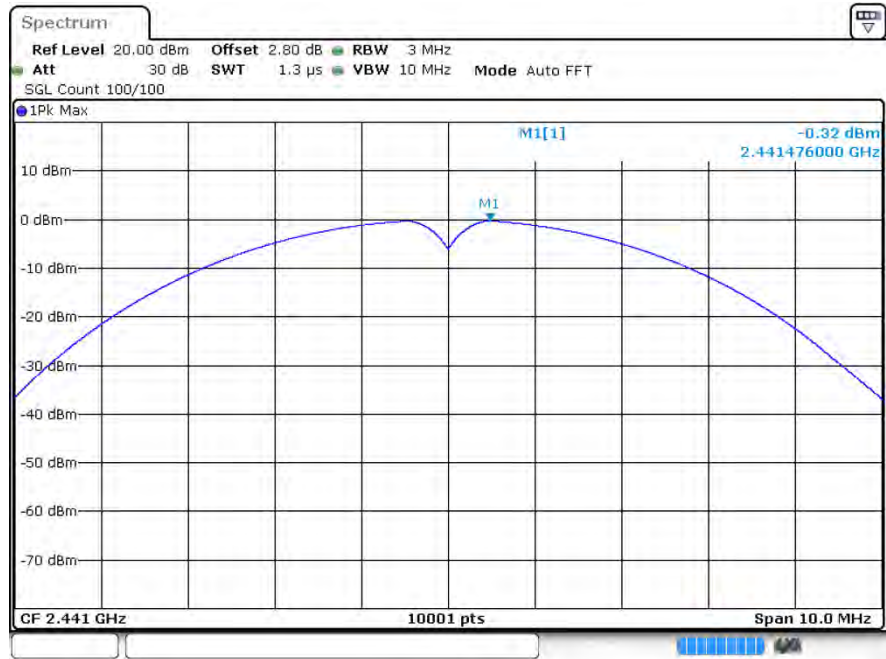
GFSK/HCH



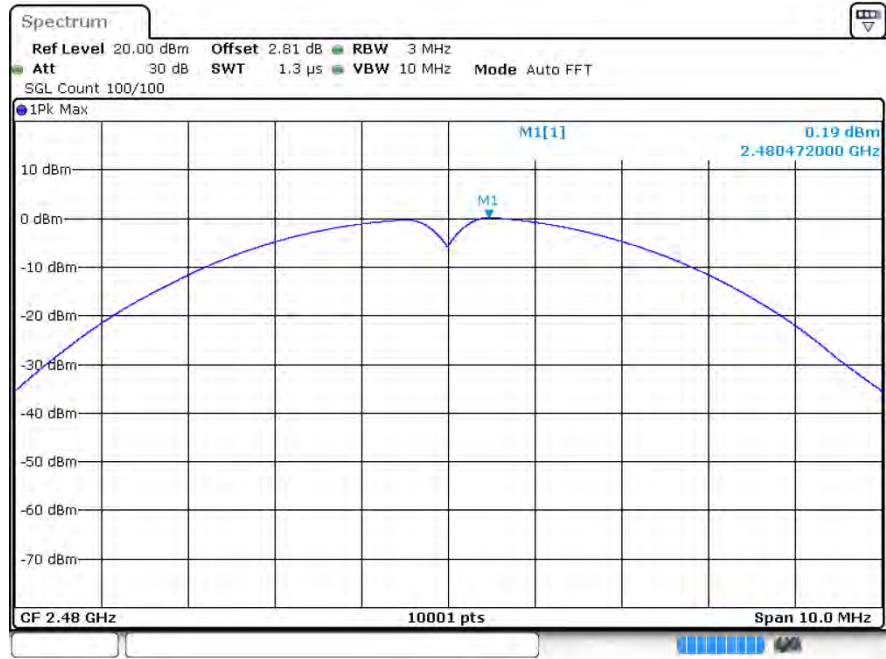
$\pi/4$ DQPSK/LCH



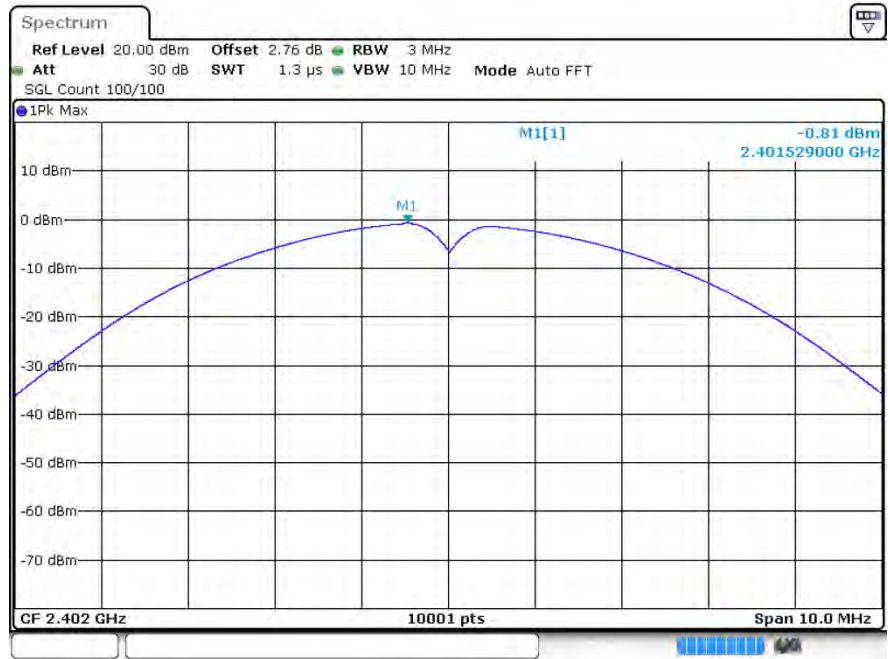
$\pi/4$ DQPSK/MCH



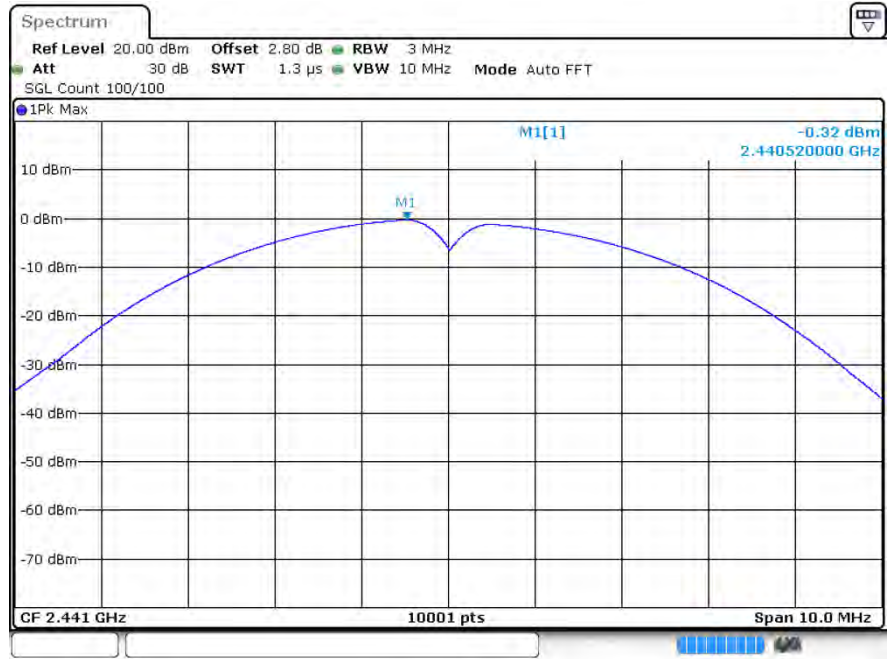
$\pi/4$ DQPSK/HCH



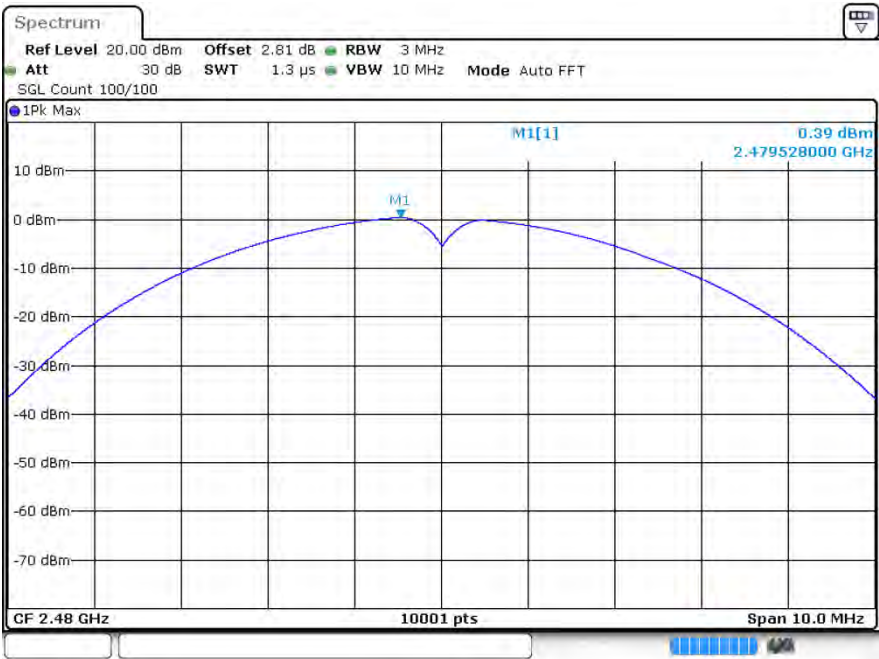
8DPSK/LCH



8DPSK/MCH



8DPSK/HCH



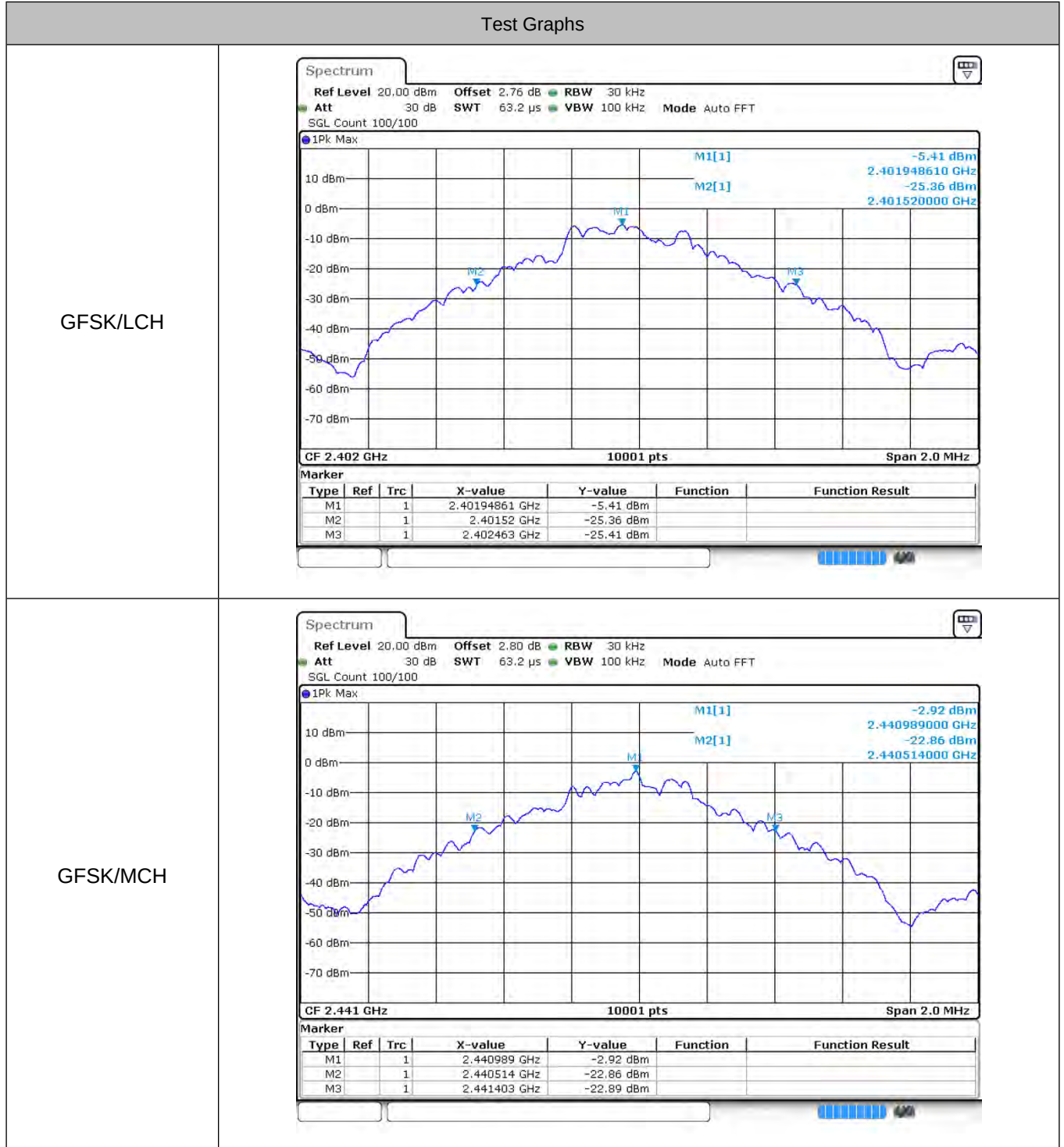
3 20dB Bandwidth

3.1 Test Result

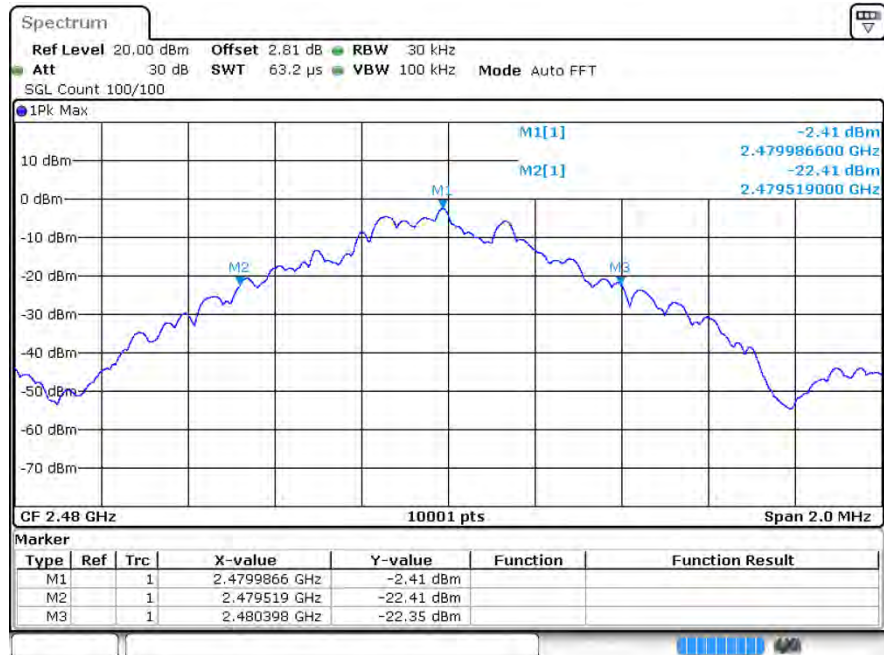
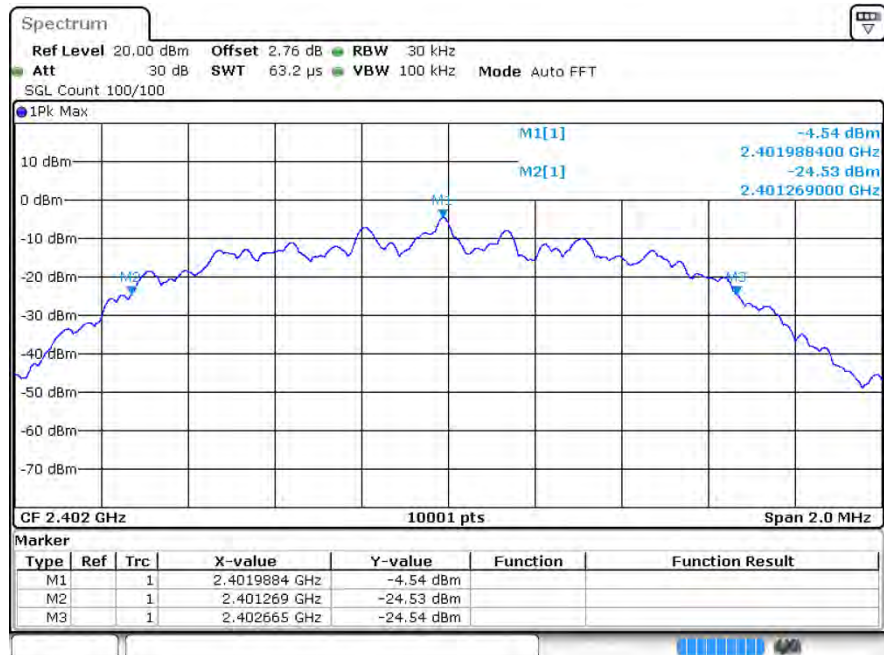
Mode	Channel.	20dB Bandwidth [MHz]	Limit [MHz]	Verdict
GFSK	LCH	0.943	Not Specified	Pass
	MCH	0.889	Not Specified	Pass
	HCH	0.879	Not Specified	Pass
$\pi/4$ DQPSK	LCH	1.396	Not Specified	Pass
	MCH	1.393	Not Specified	Pass
	HCH	1.388	Not Specified	Pass
8DPSK	LCH	1.448	Not Specified	Pass
	MCH	1.408	Not Specified	Pass
	HCH	1.447	Not Specified	Pass

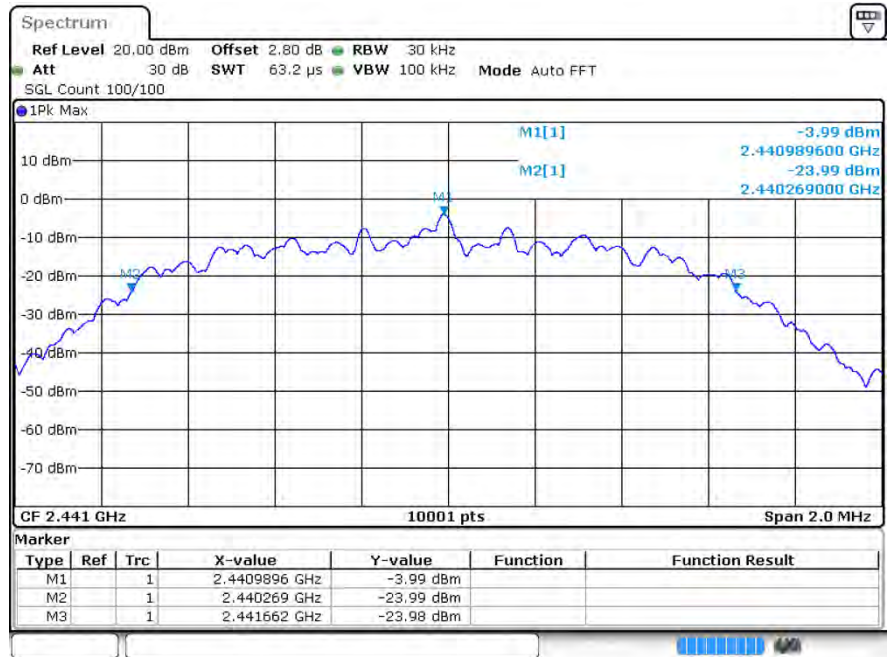
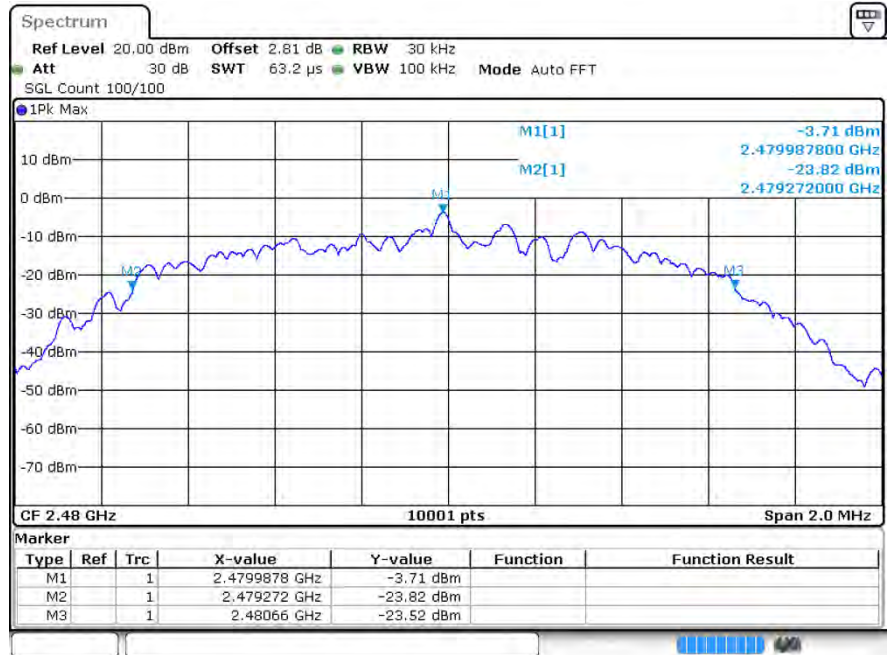
3.2 Test Graphs

Model name:	GX-AiO100	Test Date :	2026-07-22
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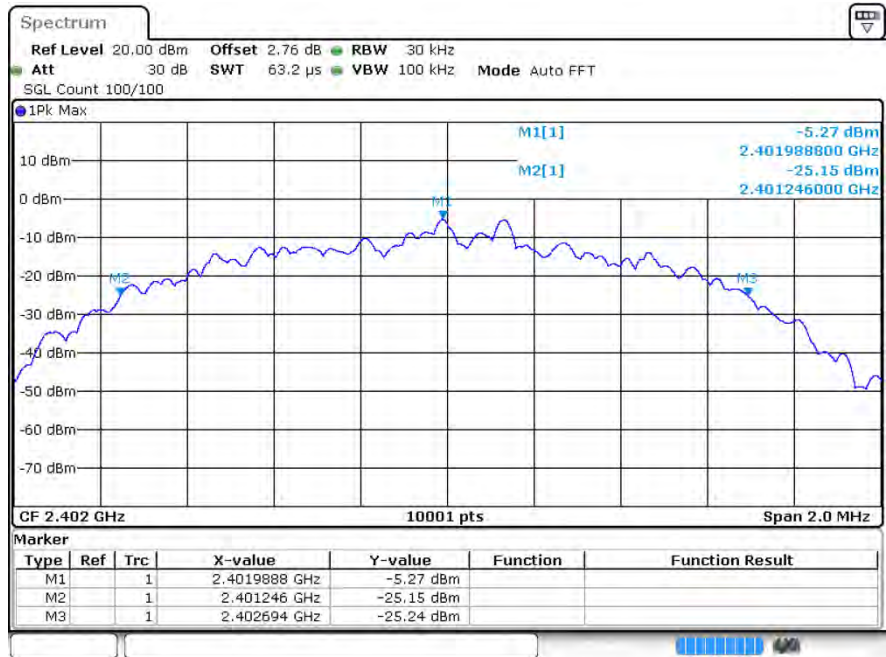


GFSK/HCH

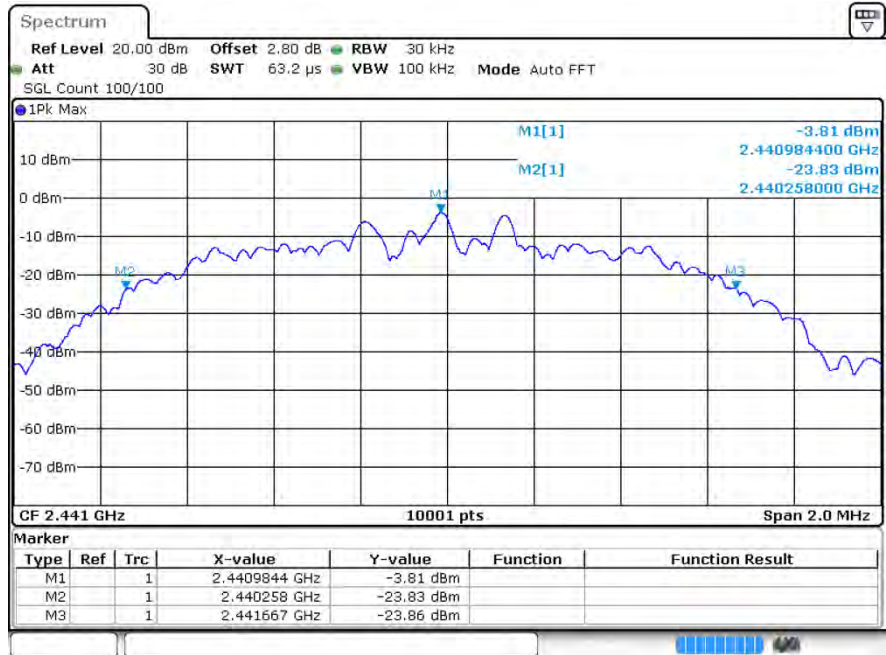

 $\pi/4$ DQPSK/LCH


$\pi/4$ DQPSK/MCH

 $\pi/4$ DQPSK/HCH


8DPSK/LCH

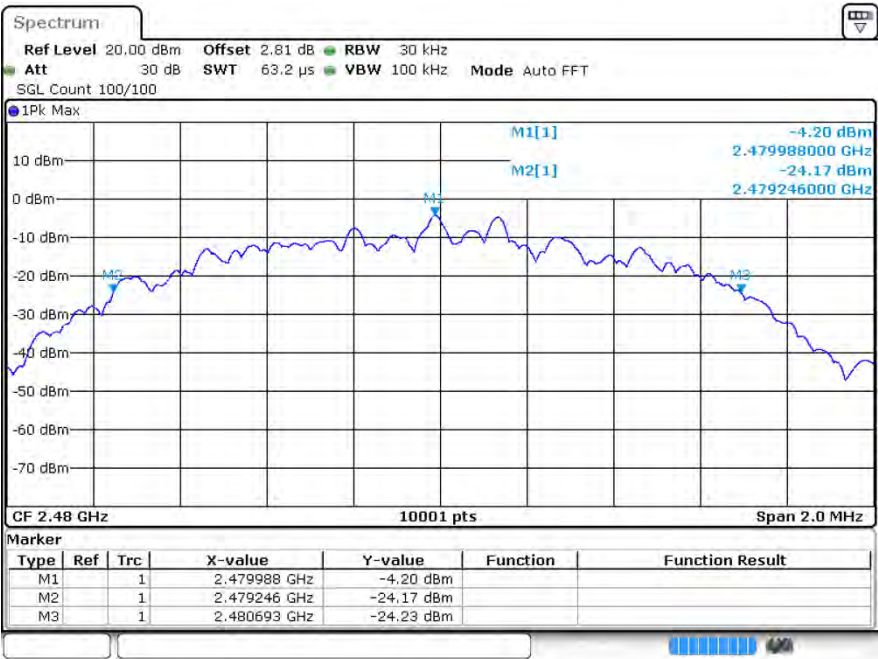


8DPSK/MCH





8DPSK/HCH



4 Carrier Frequency Separation

4.1 Test Result

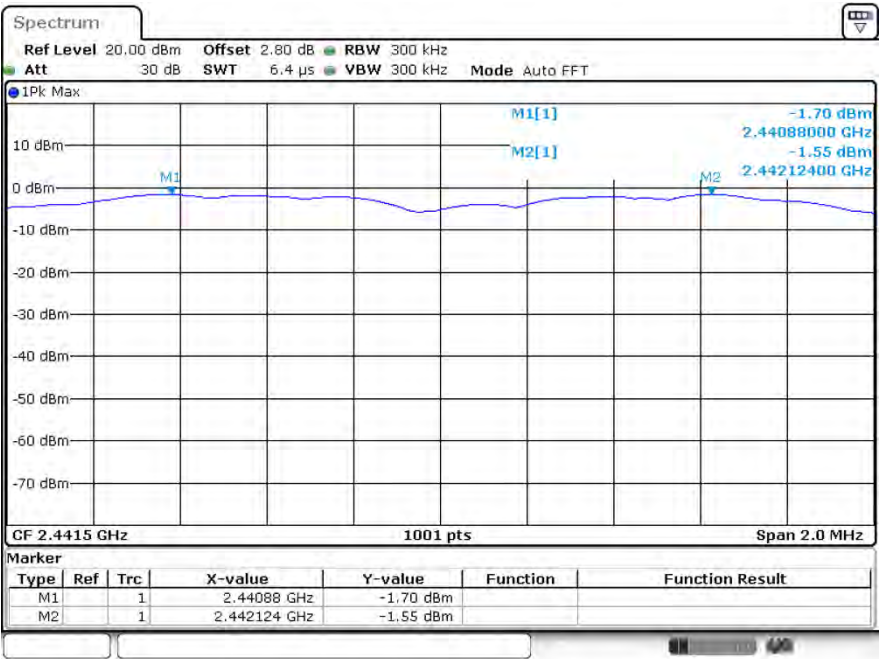
Mode	Channel.	Carrier Frequency Separation [MHz]	Limit [MHz]	Verdict
GFSK	MCH	1.005	0.593	Pass
$\pi/4$ DQPSK	MCH	1.166	0.929	Pass
8DPSK	MCH	1.244	0.939	Pass

4.2 Test Graphs

Model name:	GX-AiO100	Test Date :	2026-07-22
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8DPSK/MCH



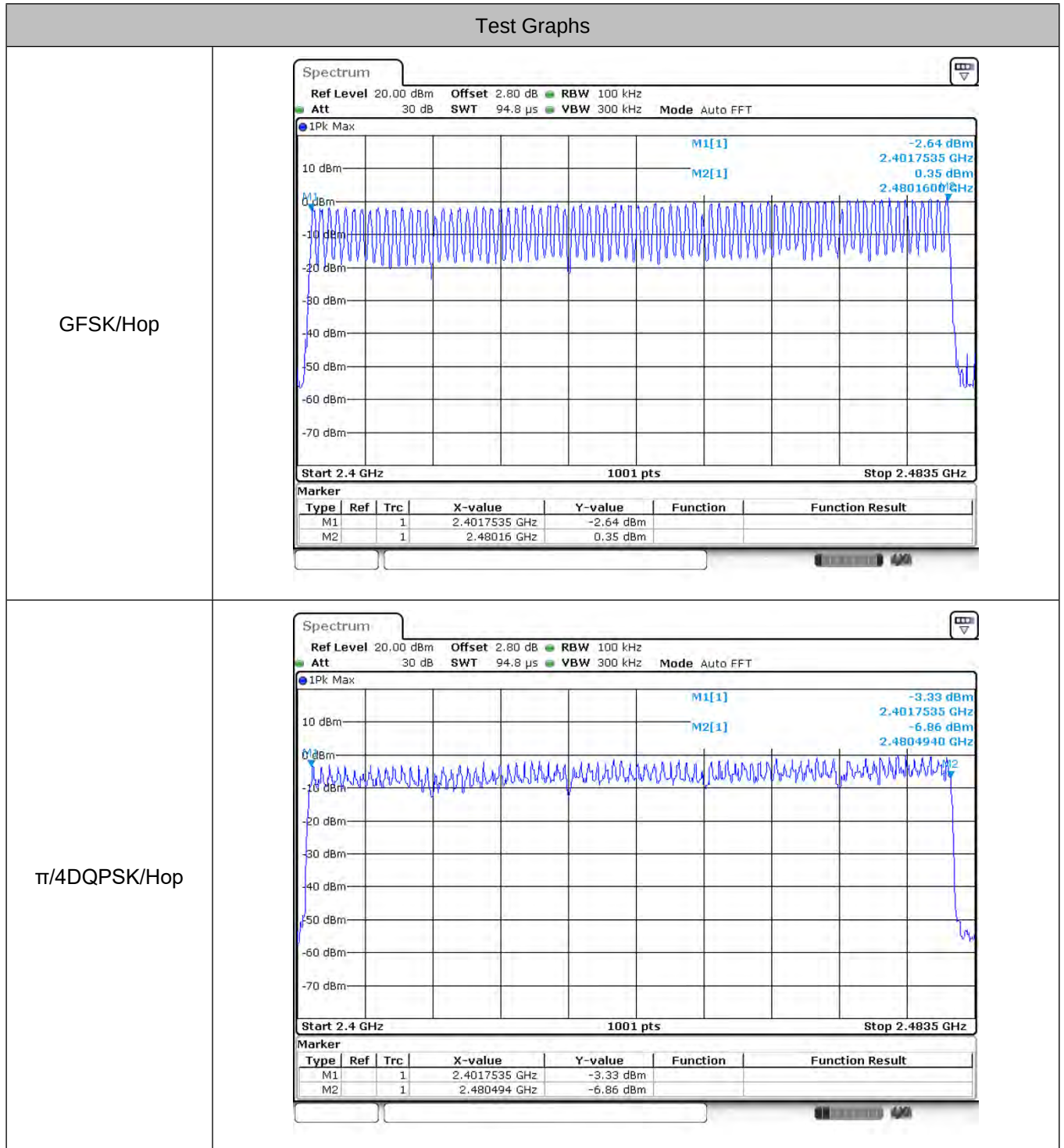
5 Hopping Channel Number

5.1 Test Result

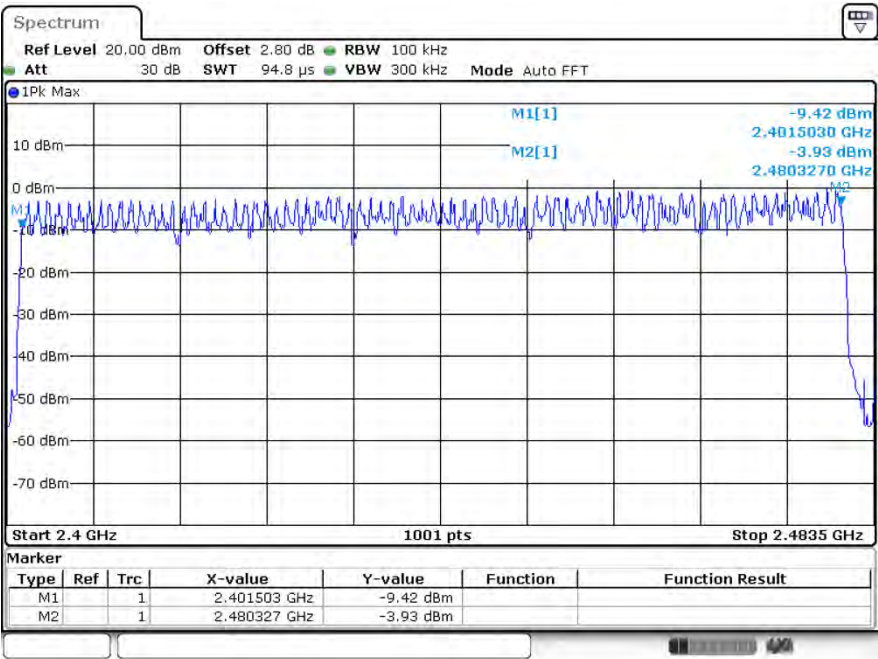
Mode	Channel.	Number of Hopping Channel [N]	Limit [N]	Verdict
GFSK	Hop	79	≥ 15	PASS
$\pi/4$ DQPSK	Hop	79	≥ 15	PASS
8DPSK	Hop	79	≥ 15	PASS

5.2 Test Graphs

Model name:	GX-AiO100	Test Date :	2026-07-22
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8DPSK/Hop



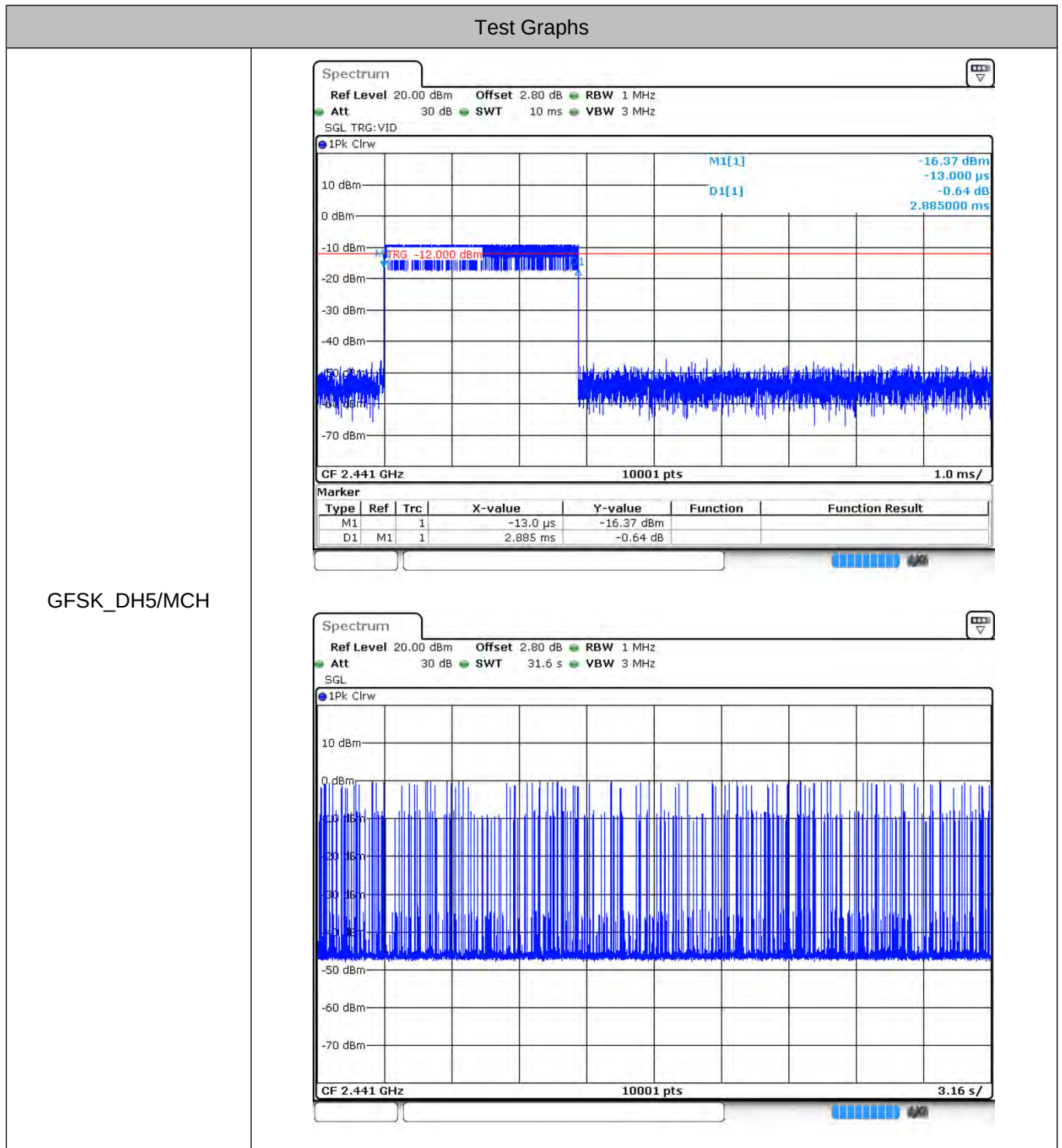
6 Dwell Time

6.1 Test Result

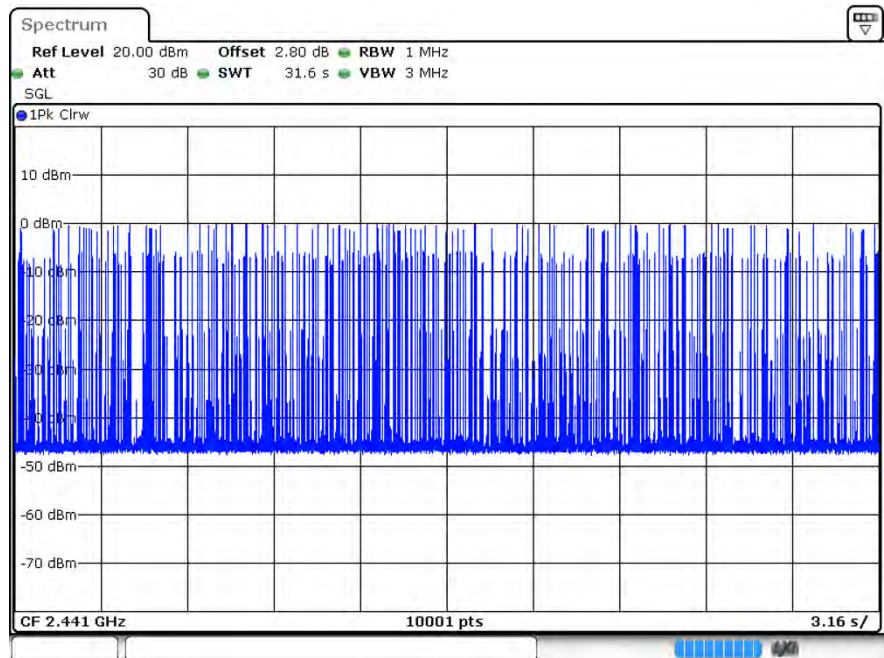
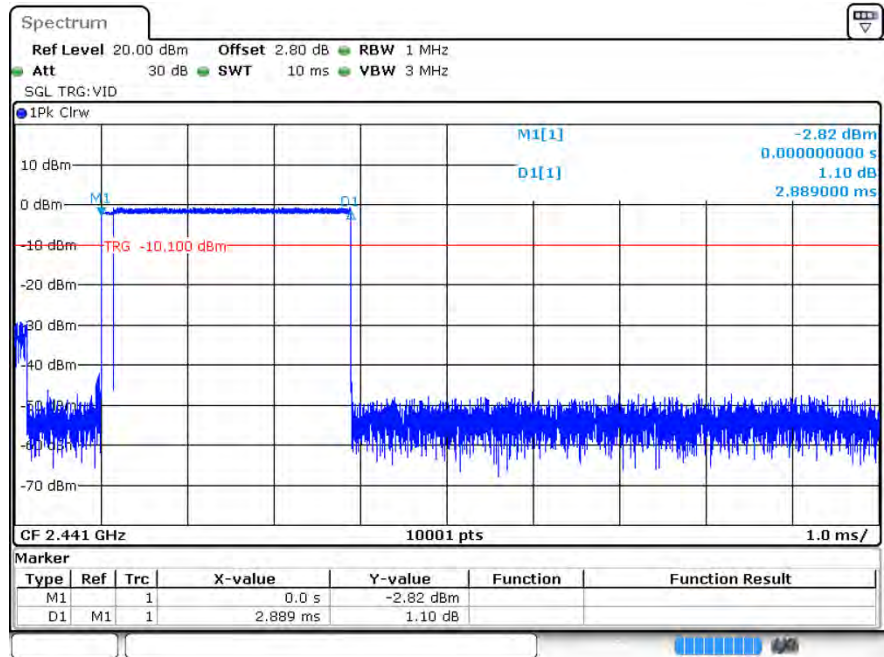
Mode	Packet	Channel	Burst Width [ms/hop/ch]	Total Hops[hop*ch]	Dwell Time[ms]	Limit [s]	Verdict
GFSK	DH5	MCH	2.885	107	308.695	0.4	Pass
$\pi/4$ DQPSK	2DH5	MCH	2.889	113	326.457	0.4	Pass
8DPSK	3DH5	MCH	2.891	103	297.773	0.4	Pass

6.2 Test Graphs

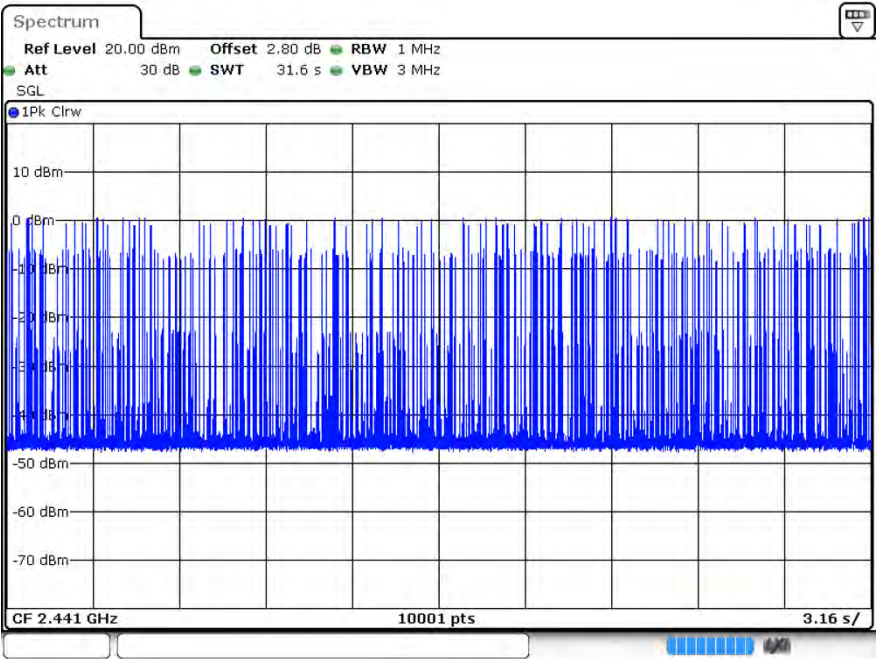
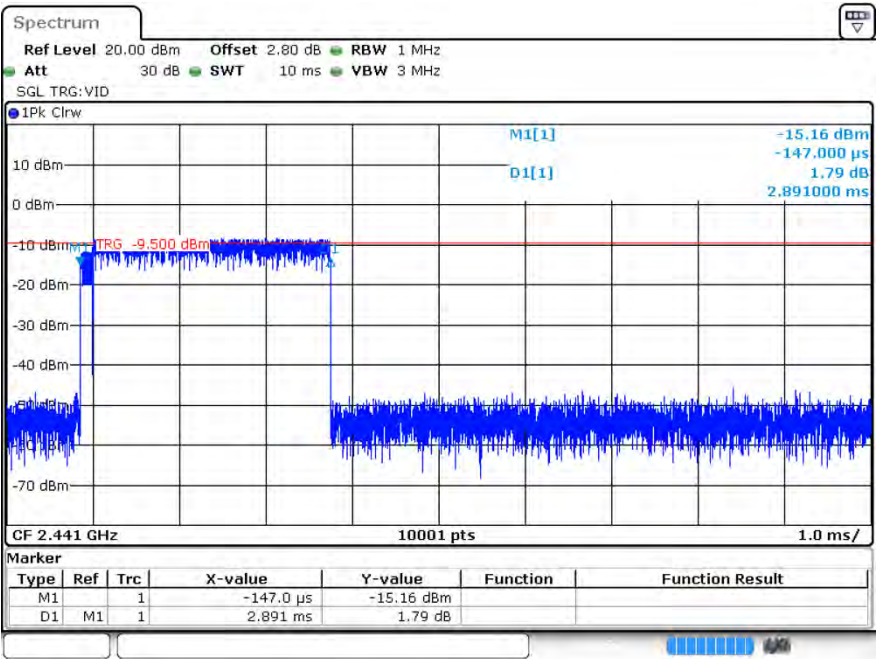
Model name:	GX-AiO100	Test Date :	2026-07-22
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$\pi/4$ DQPSK
_2DH5/MCH



8DPSK_3DH5/MCH



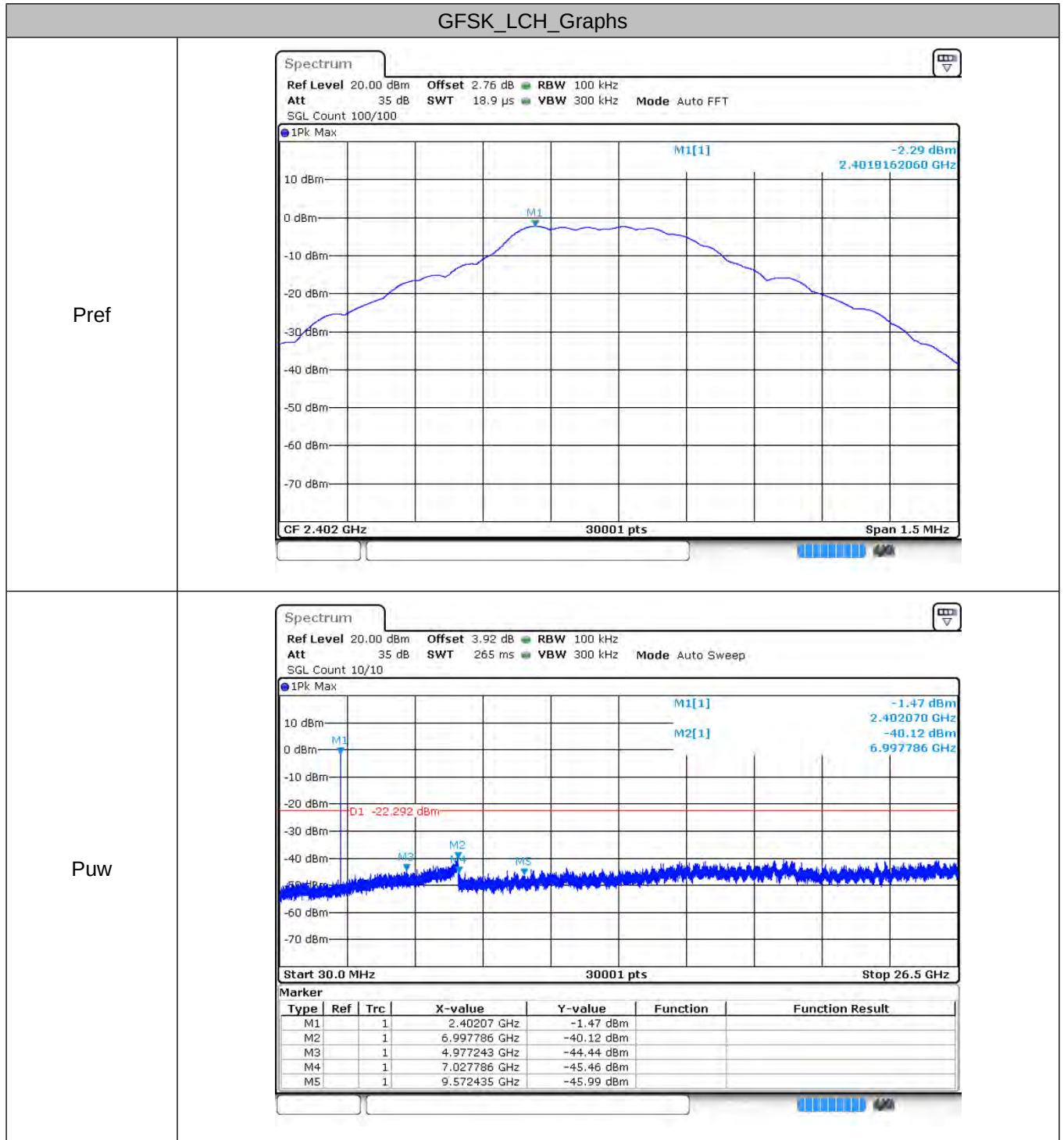
7 RF Conducted Spurious Emissions

7.1 Test Result

Mode	Channel	Max. Level [dBc]	Limit [dBc]	Verdict
GFSK	LCH	-37.82	-20	Pass
	MCH	-38.18	-20	Pass
	HCH	-37.79	-20	Pass
$\pi/4$ DQPSK	LCH	-37.02	-20	Pass
	MCH	-37.17	-20	Pass
	HCH	-36.45	-20	Pass
8DPSK	LCH	-36.03	-20	Pass
	MCH	-37.44	-20	Pass
	HCH	-37.87	-20	Pass

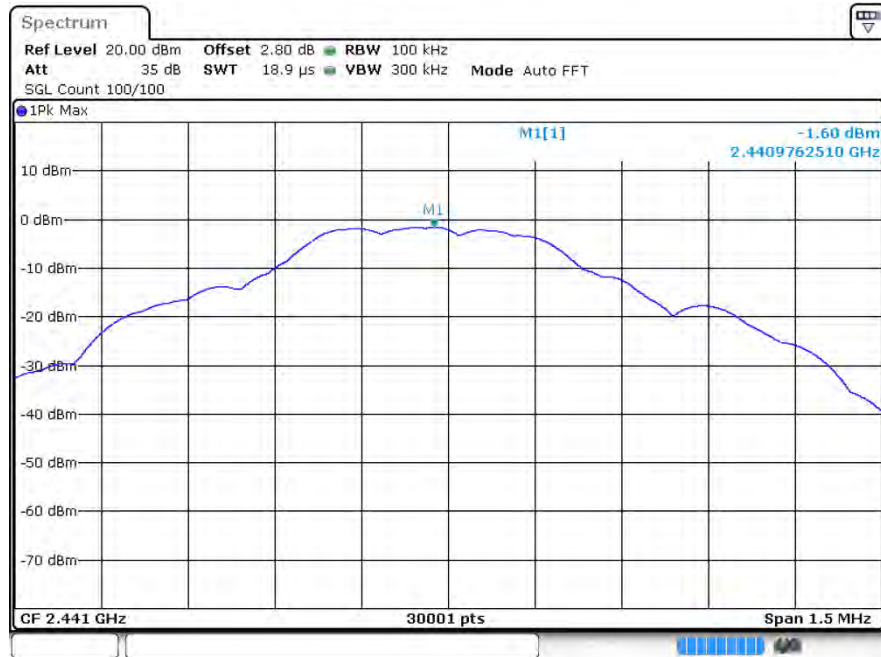
7.2 Test Graphs

Model name:	GX-AiO100	Test Date :	2026-07-22
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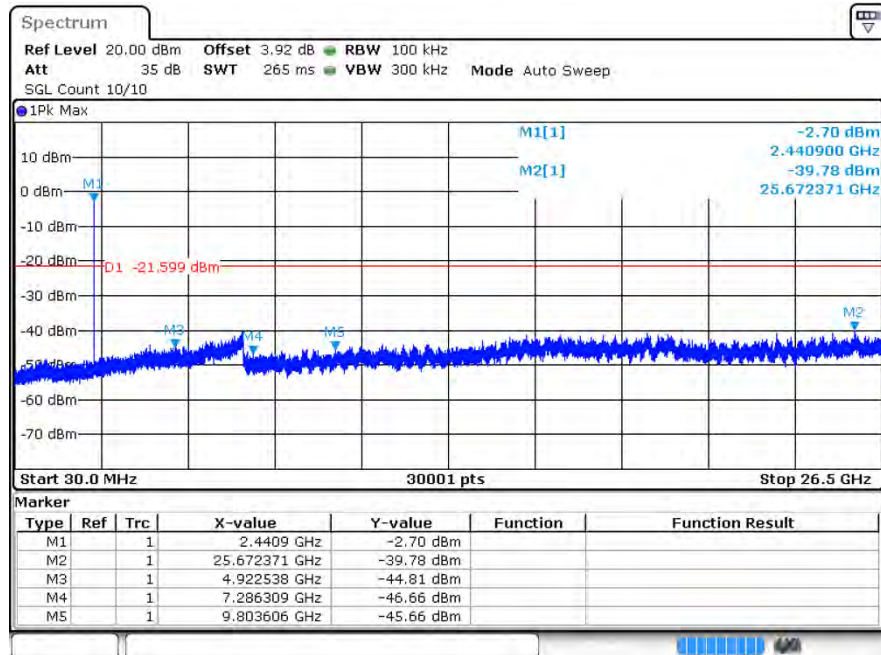


GFSK_MCH_Graphs

Pref

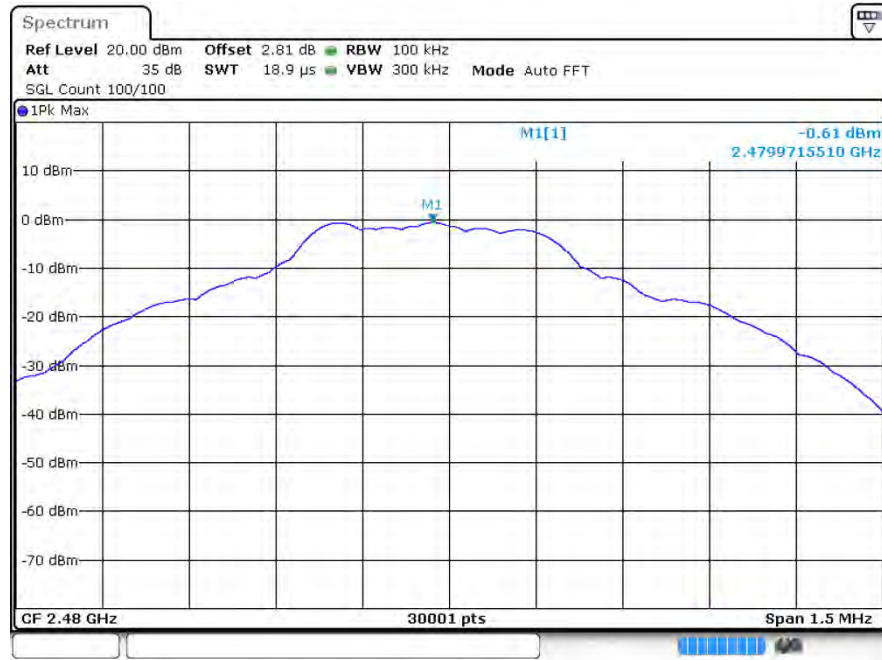


Puw

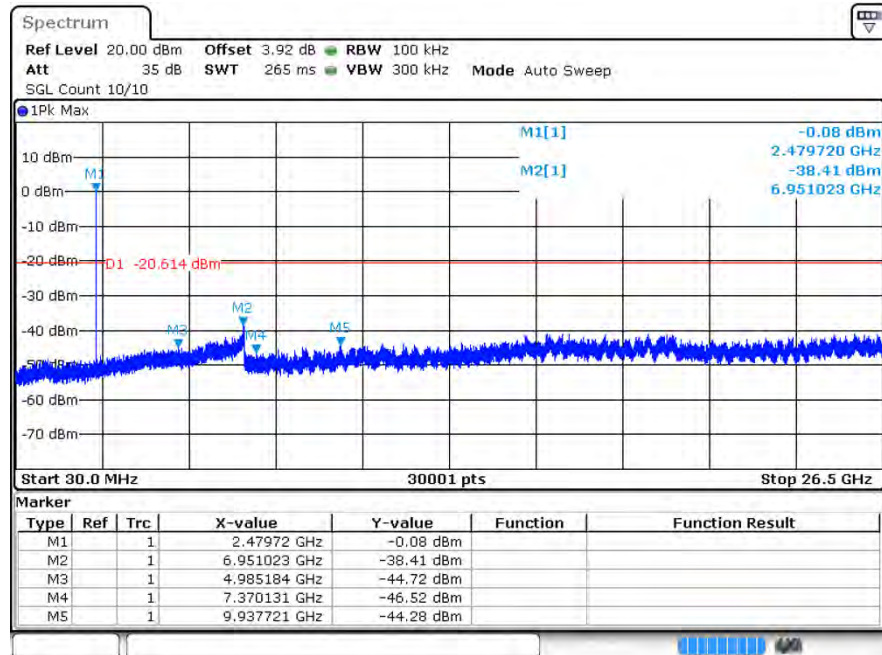


GFSK_HCH_Graphs

Pref

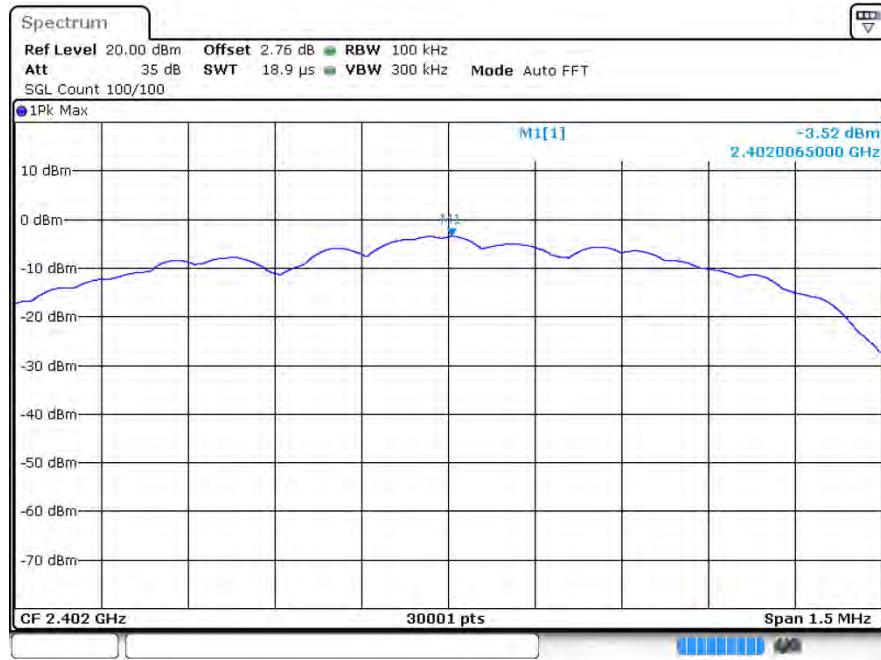


Puw

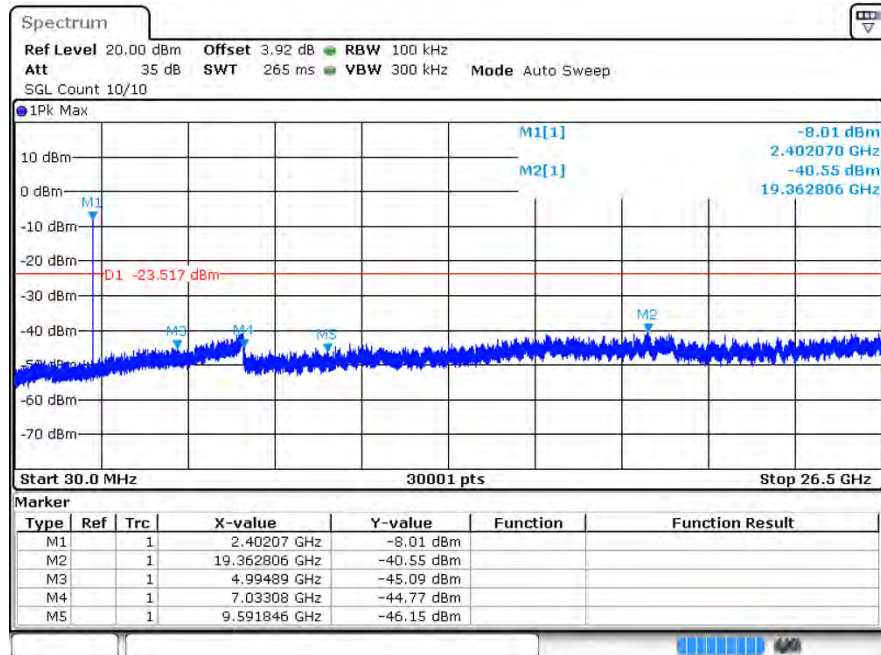


$\pi/4$ DQPSK_LCH_Graphs

Pref

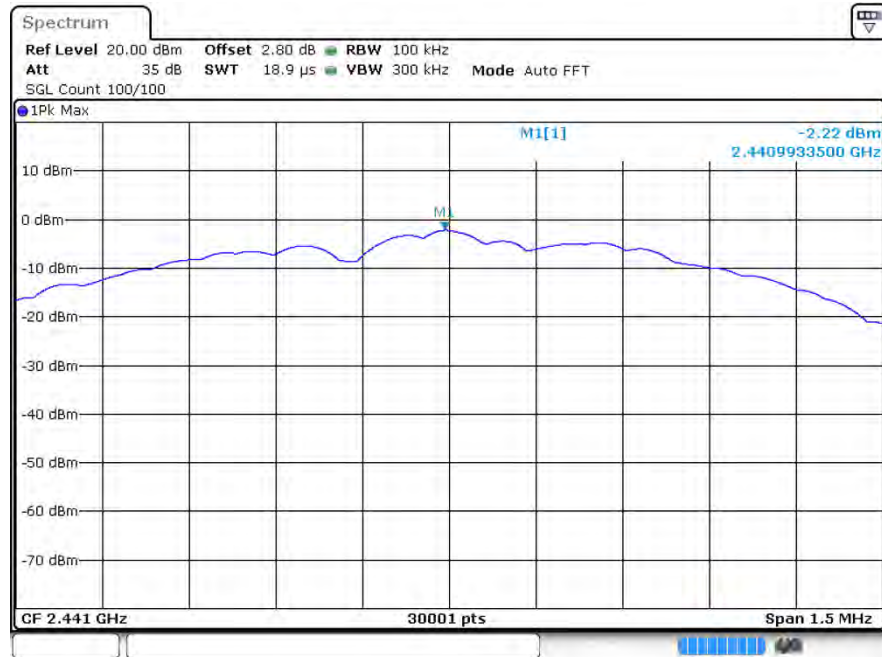


Puw

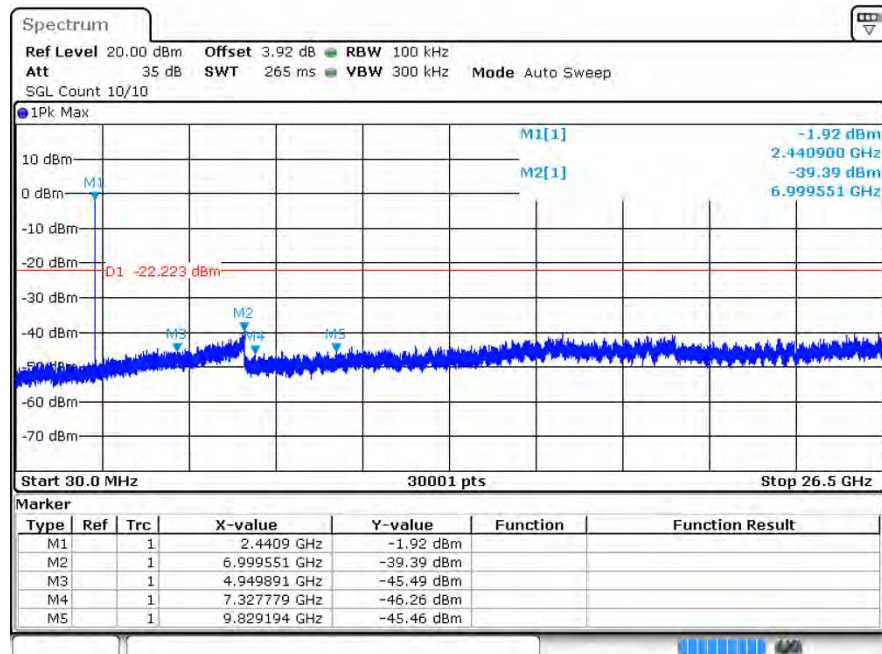


$\pi/4$ DQPSK_MCH_Graphs

Pref

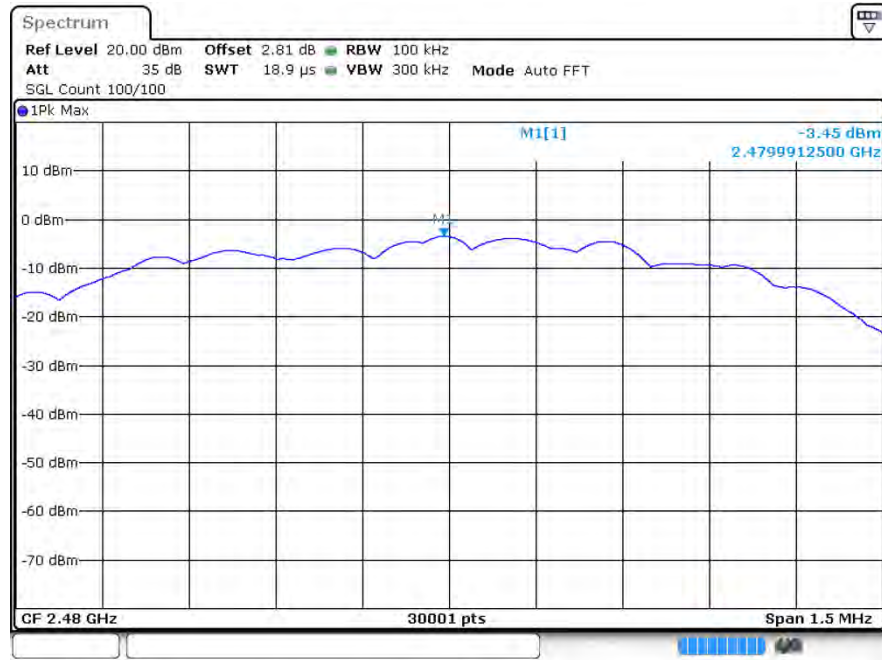


Puw

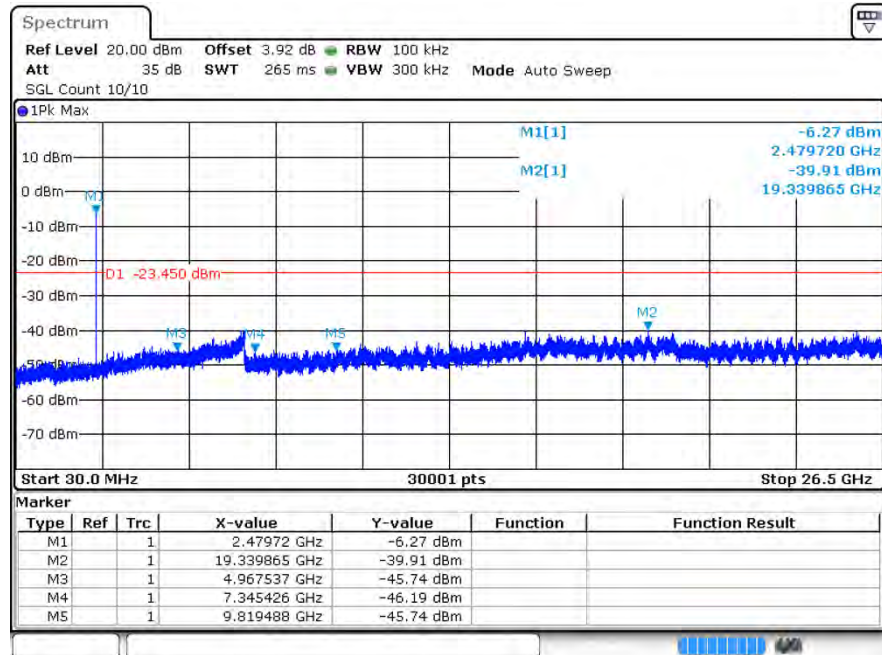


$\pi/4$ DQPSK_HCH_Graphs

Pref

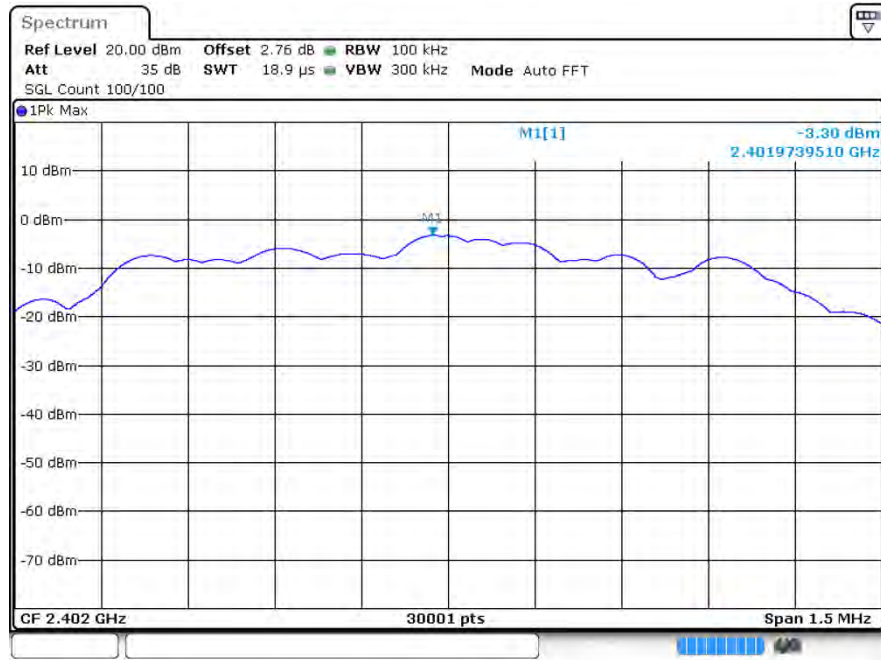


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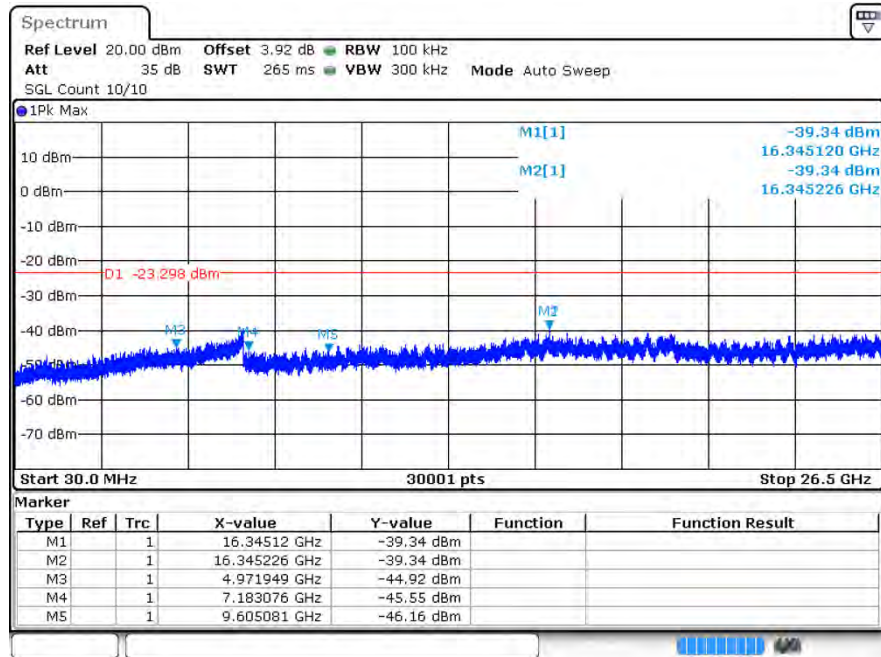


8DPSK_LCH_Graphs

Pref

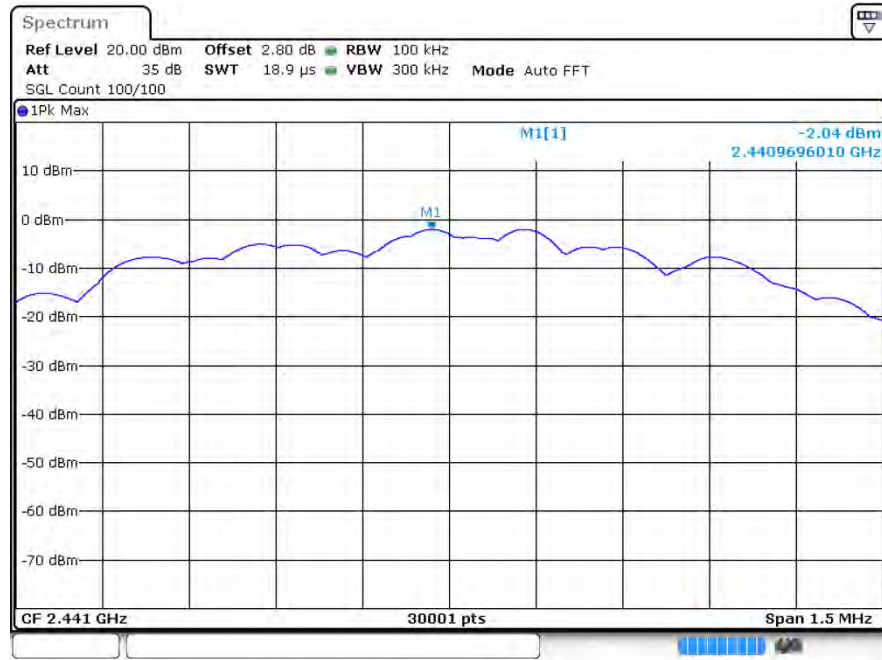


Puw

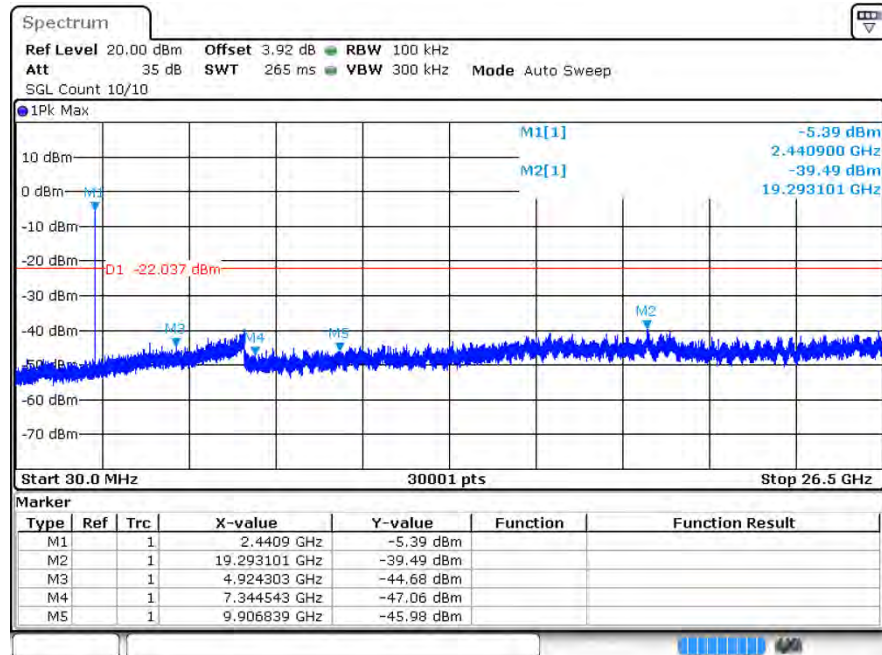


8DPSK_MCH_Graphs

Pref

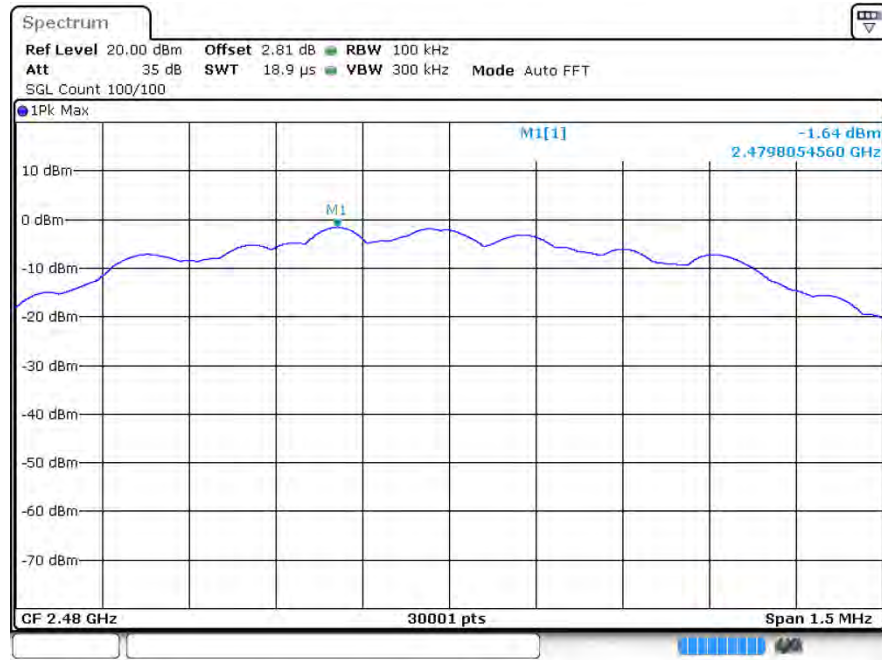


Puw

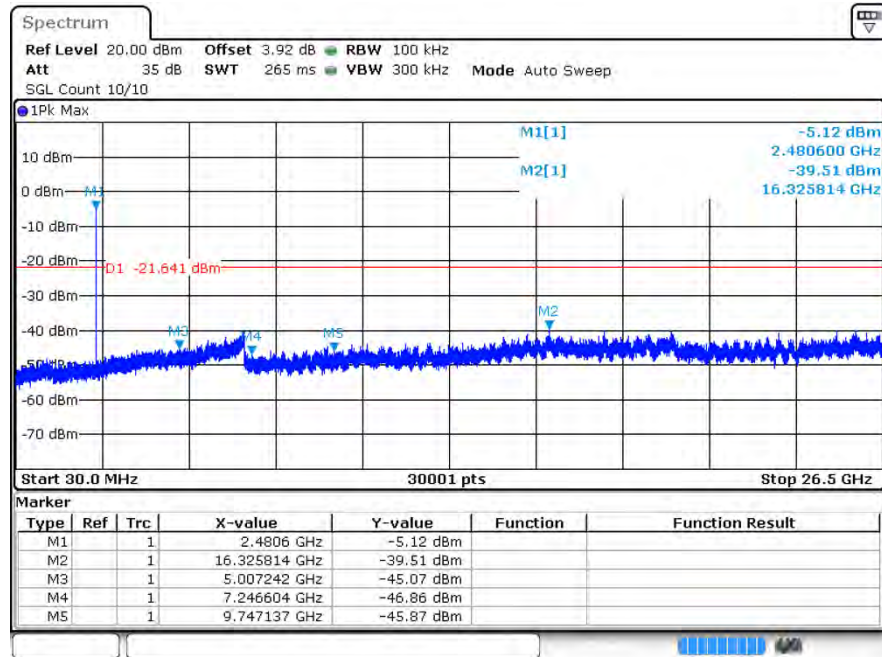


8DPSK_HCH_Graphs

Pref



Puw



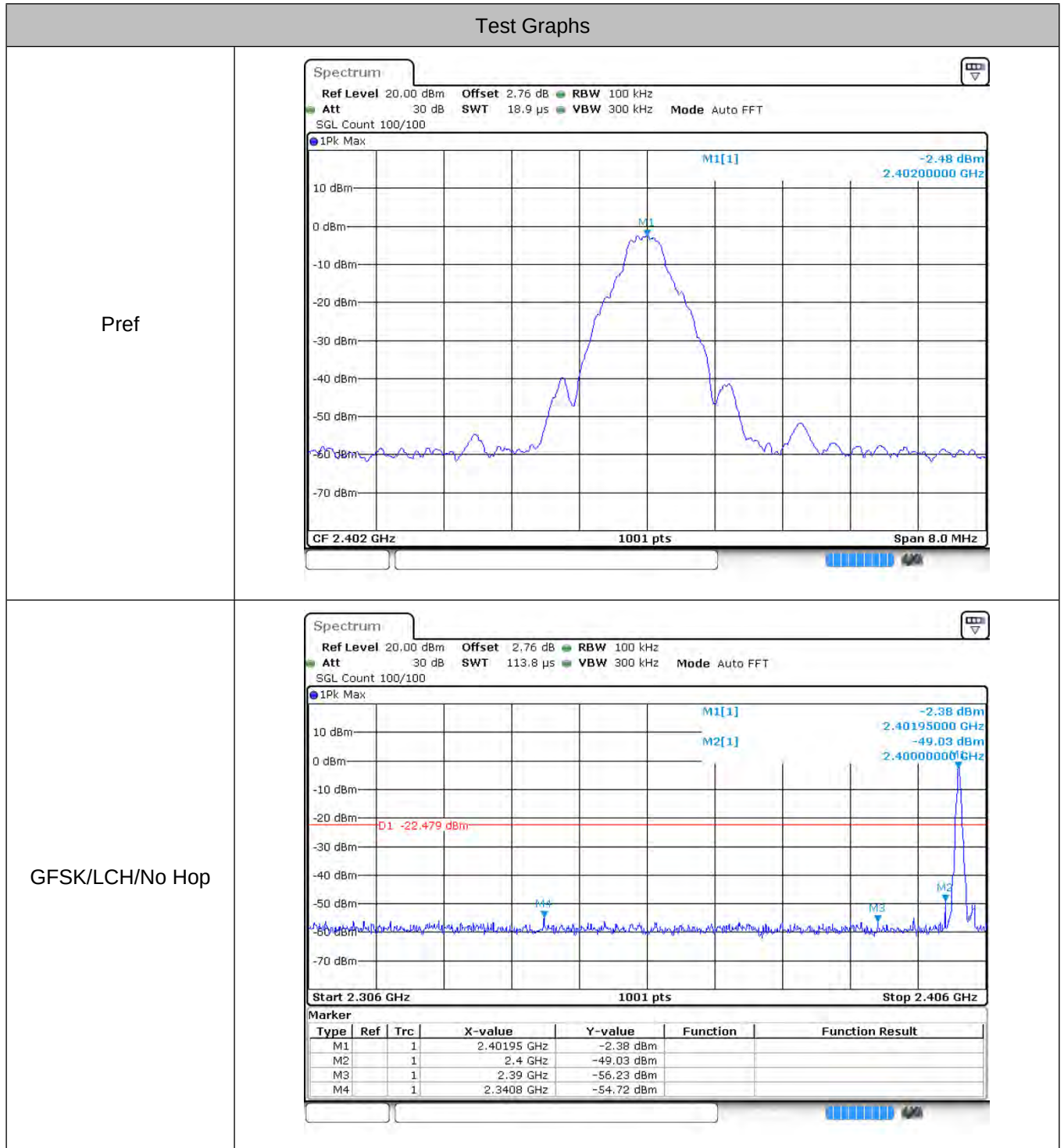
8 Band-edge for RF Conducted Emissions

8.1 Test Result

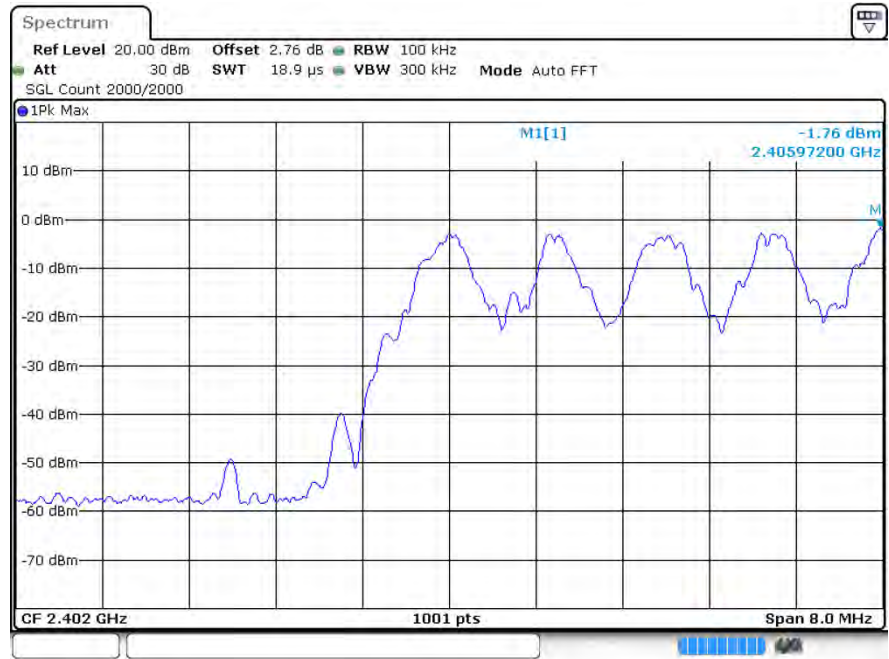
Mode	Channel	Carrier Frequency [MHz]	Frequency Hopping	Max Spurious Level [dBc]	Limit [dBc]	Verdict
GFSK	LCH	2402	Off	-52.24	-20	Pass
			On	-52.77	-20	Pass
	HCH	2480	Off	-47.96	-20	Pass
			On	-46.57	-20	Pass
$\pi/4$ DQPSK	LCH	2402	Off	-52.19	-20	Pass
			On	-50.77	-20	Pass
	HCH	2480	Off	-44.24	-20	Pass
			On	-48.86	-20	Pass
8DPSK	LCH	2402	Off	-52.65	-20	Pass
			On	-50.86	-20	Pass
	HCH	2480	Off	-46.95	-20	Pass
			On	-51.13	-20	Pass

8.2 Test Graphs

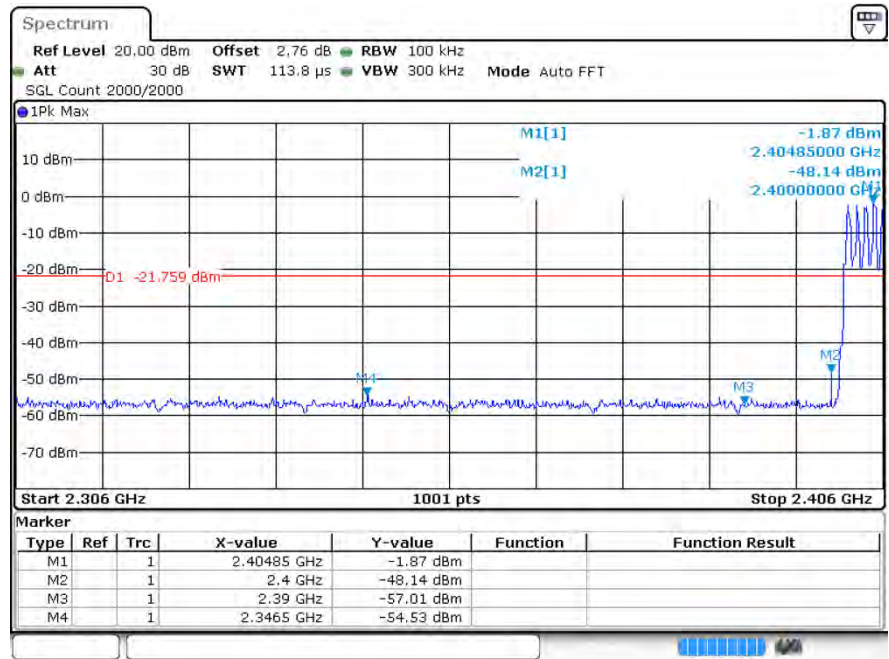
Model name:	GX-AiO100	Test Date :	2026-07-22
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Ref



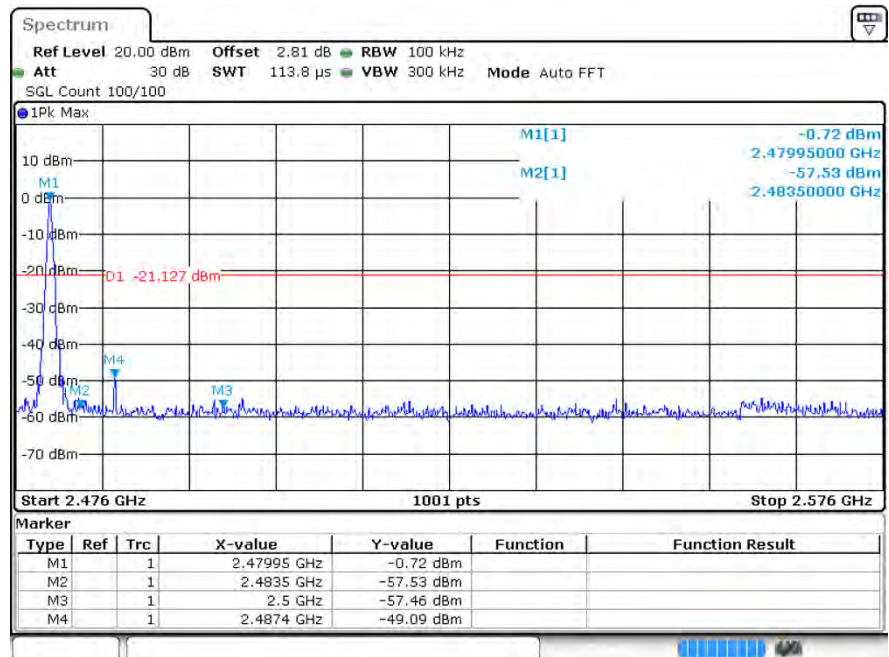
GFSK/LCH/Hop



Ref



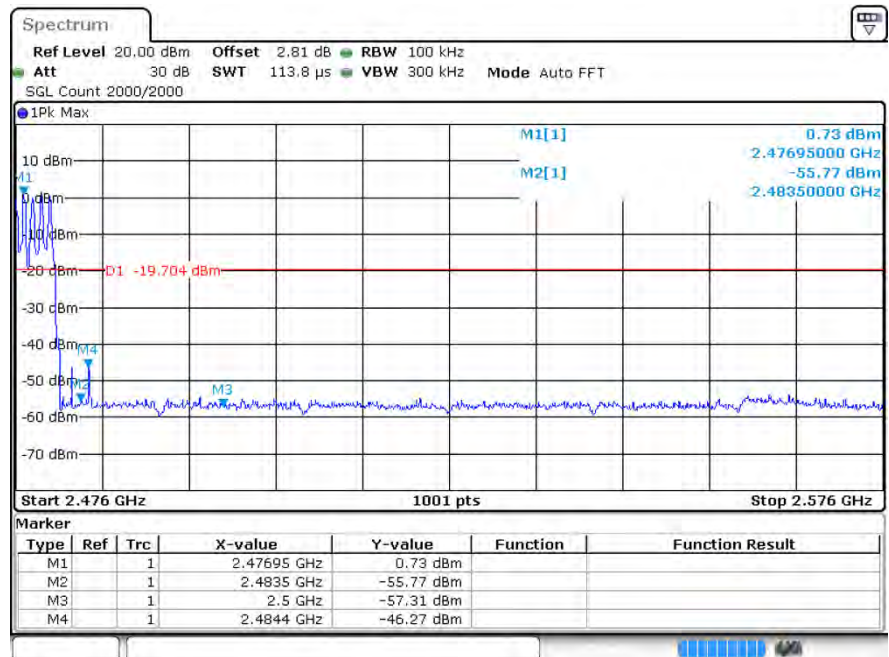
GFSK/HCH/No Hop



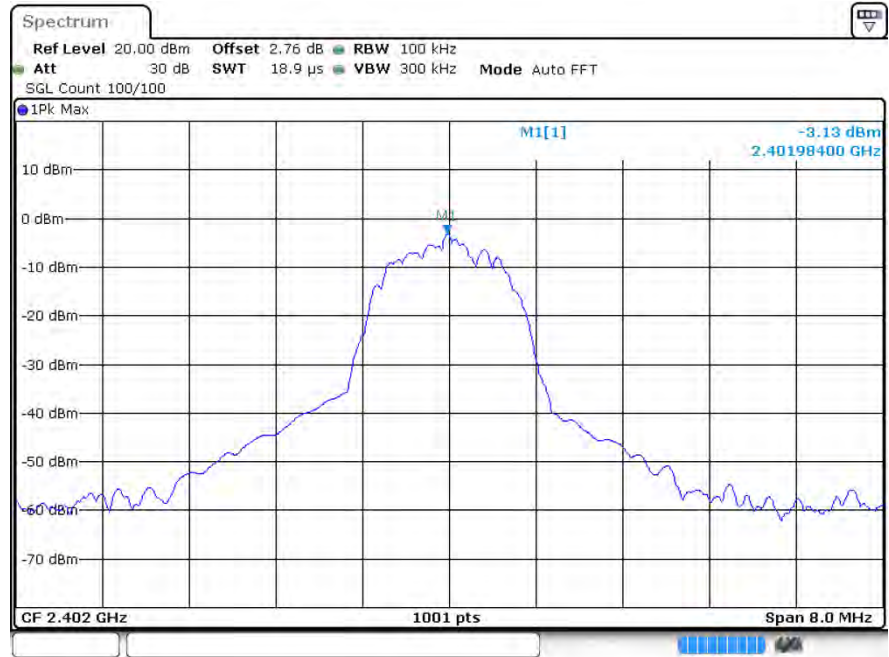
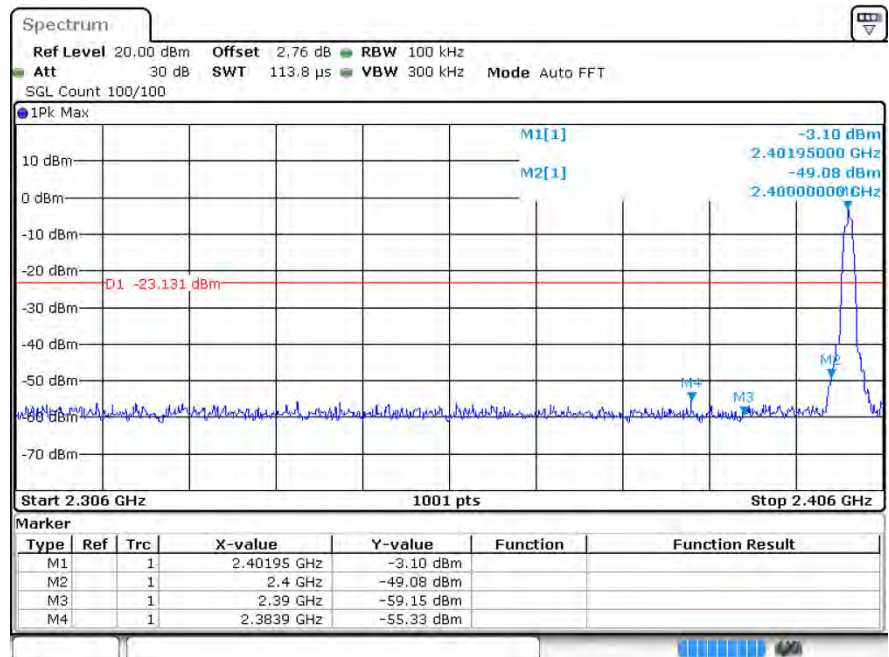
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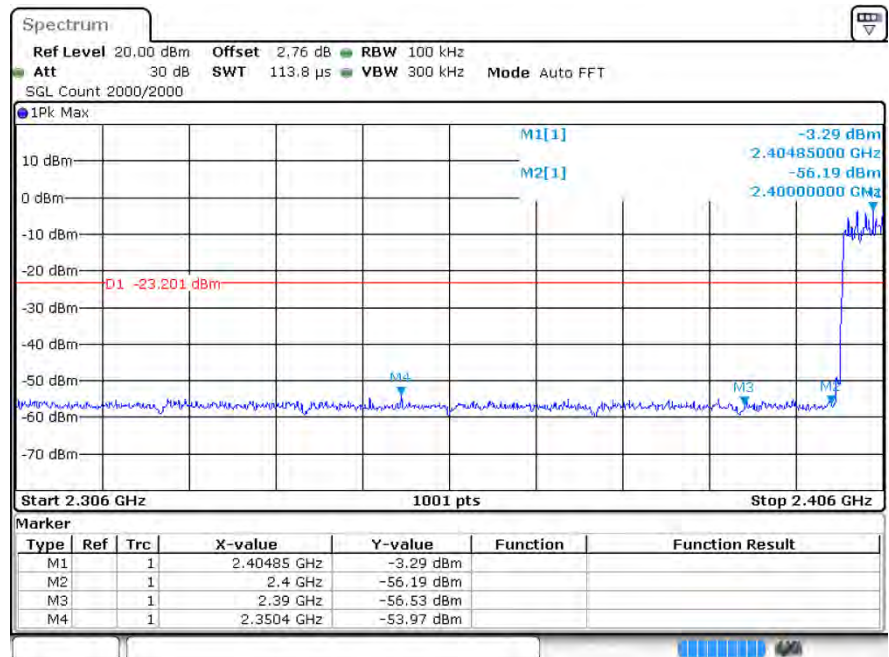
GFSK/HCH/Hop



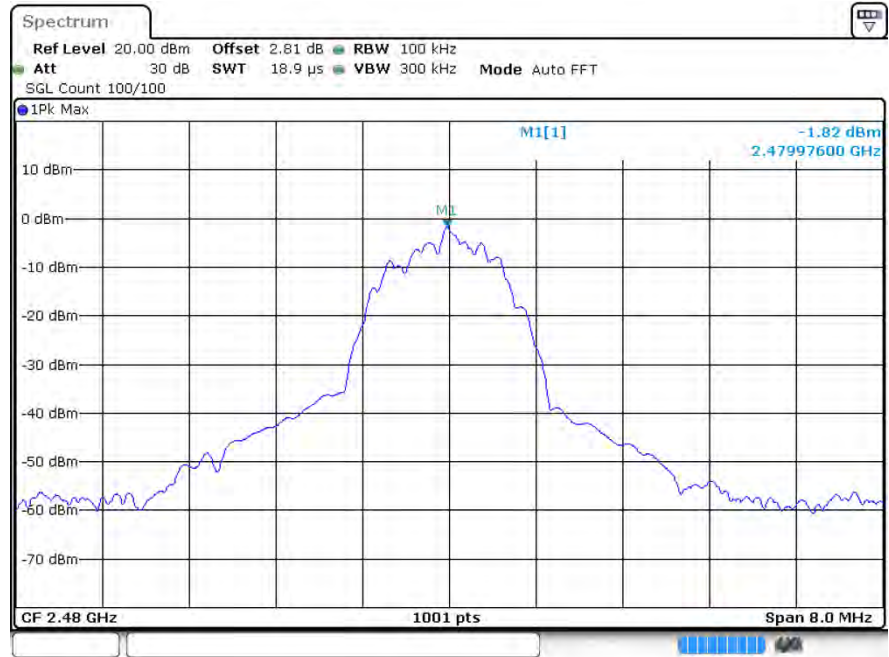
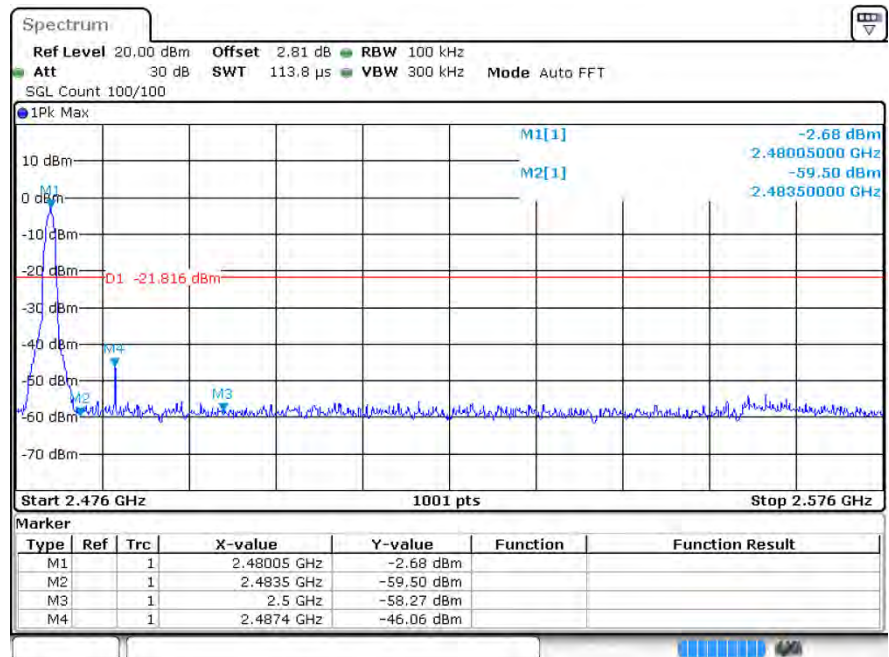
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 $\pi/4$ DQPSK/LCH/No
Hop


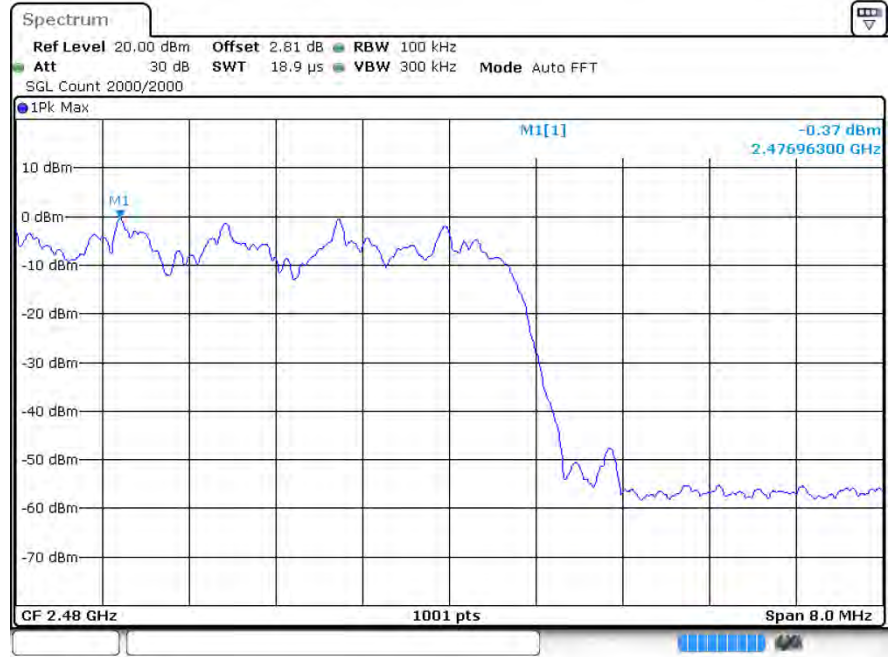
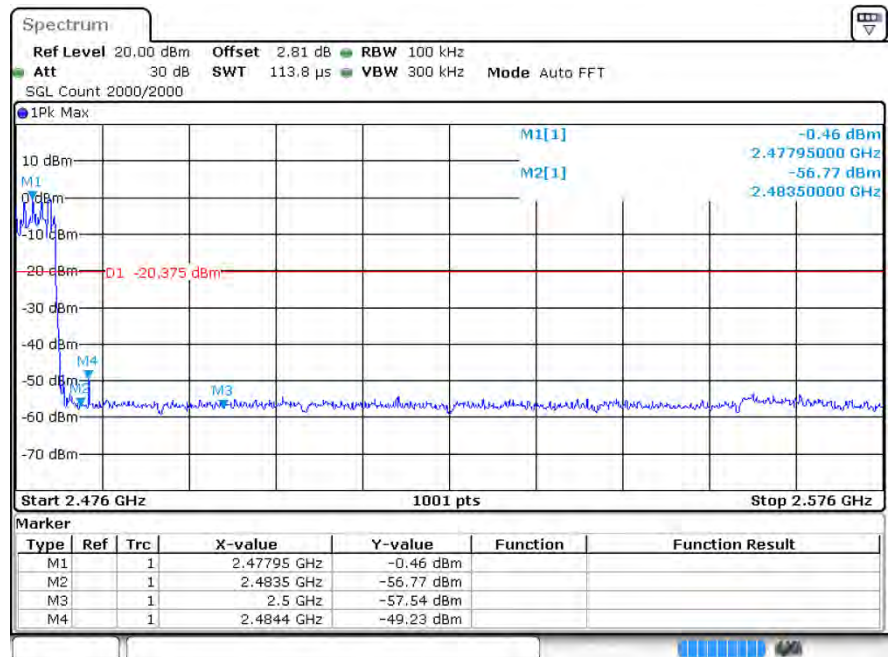
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 $\pi/4$ DQPSK/LCH/Hop


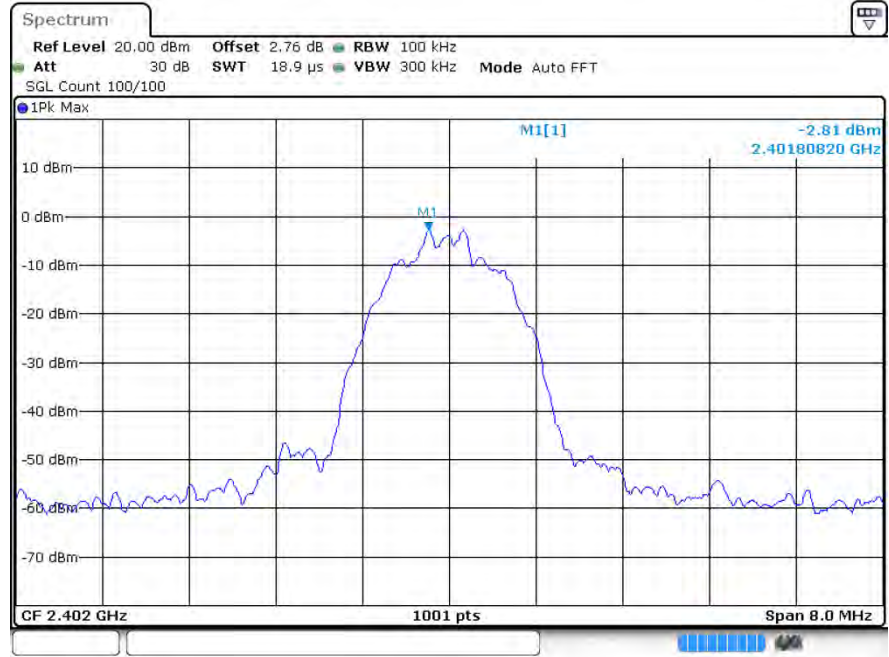
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 $\pi/4$ DQPSK/HCH/No Hop


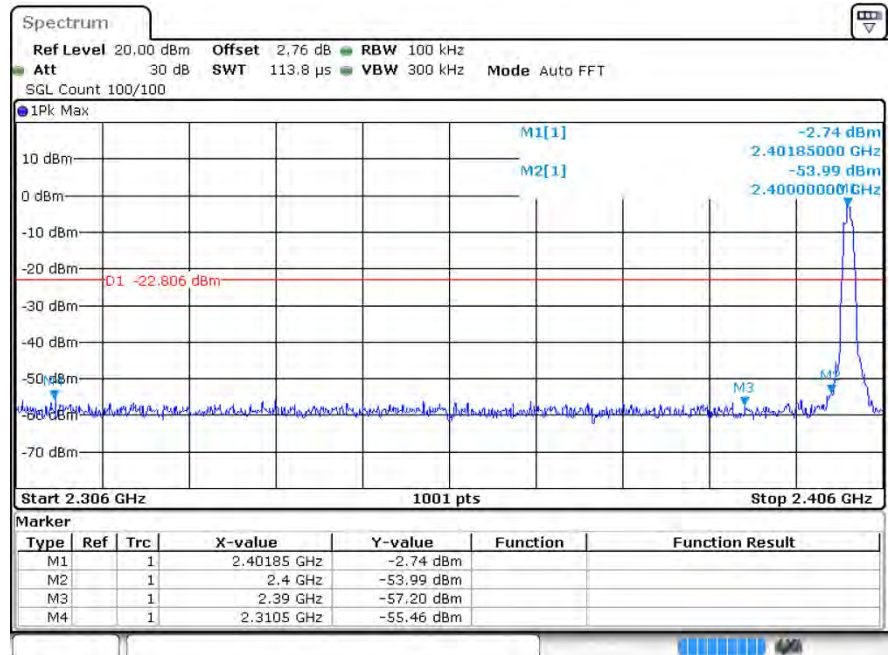
Ref


 $\pi/4$ DQPSK/HCH/Hop


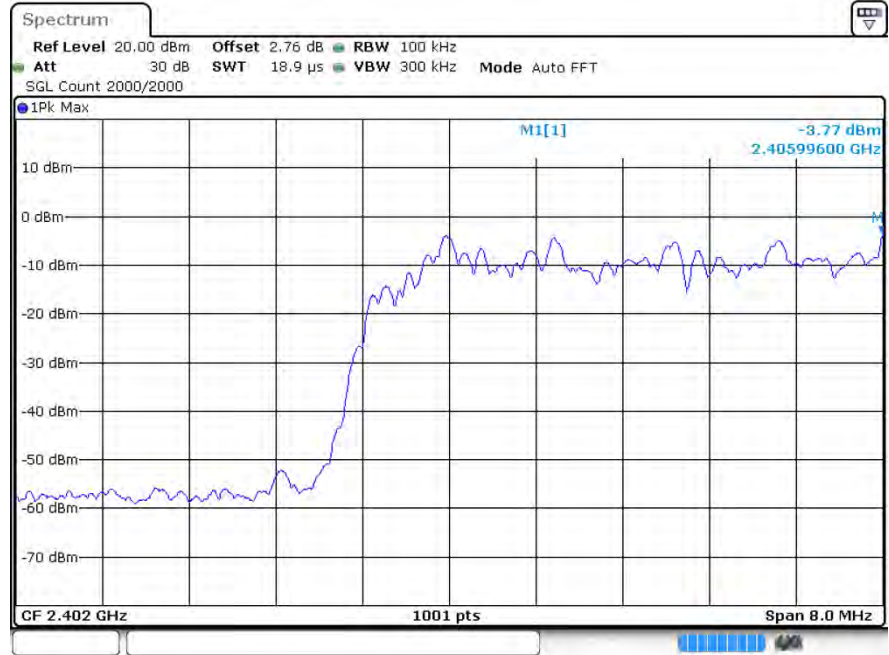
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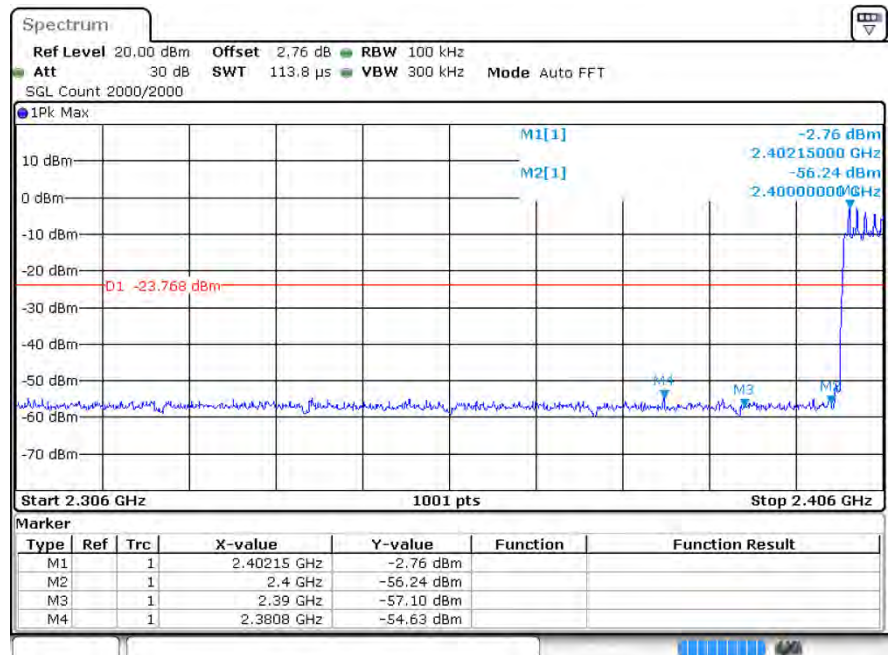
8DPSK/LCH/No Hop



Ref

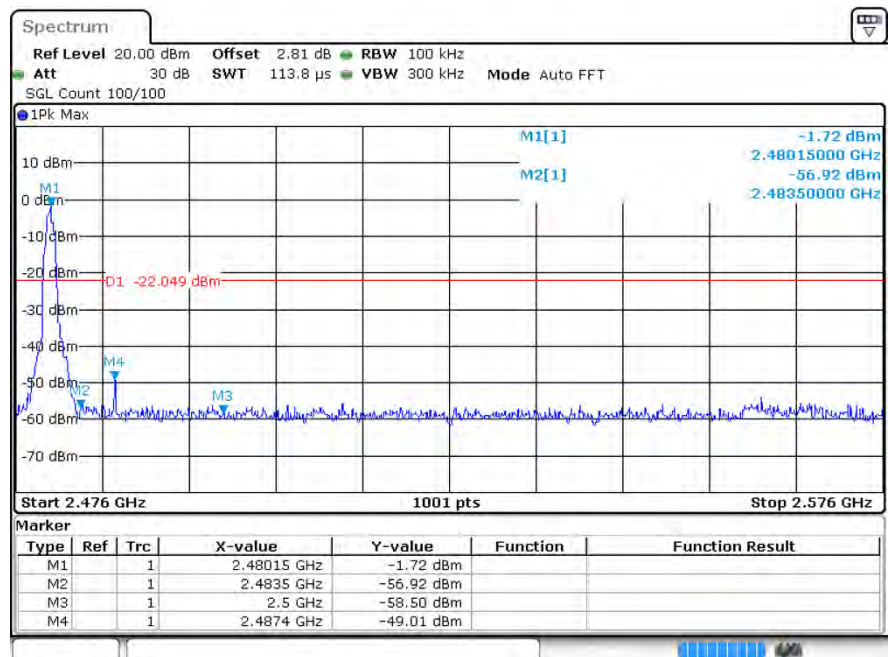


8DPSK/LCH/Hop

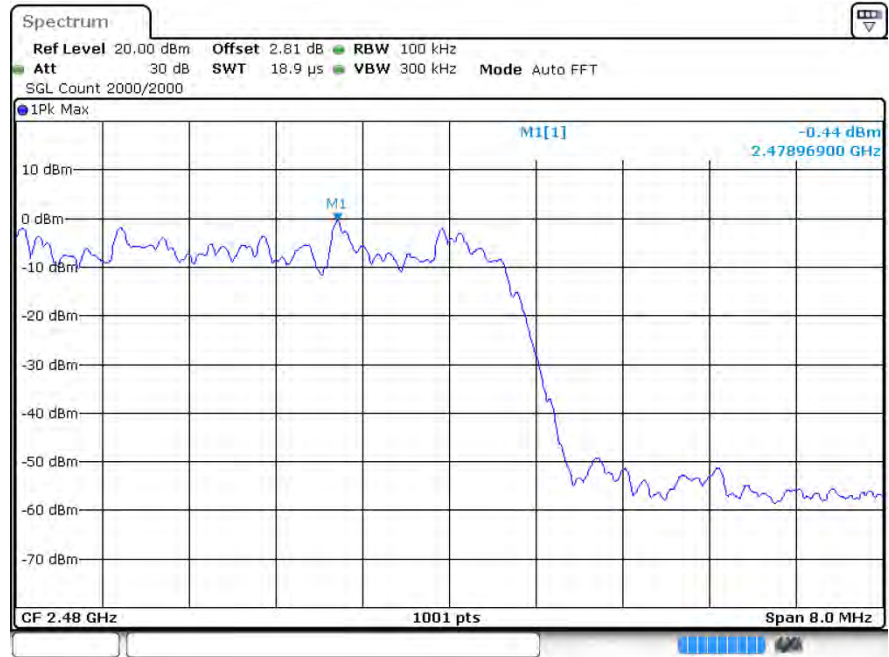




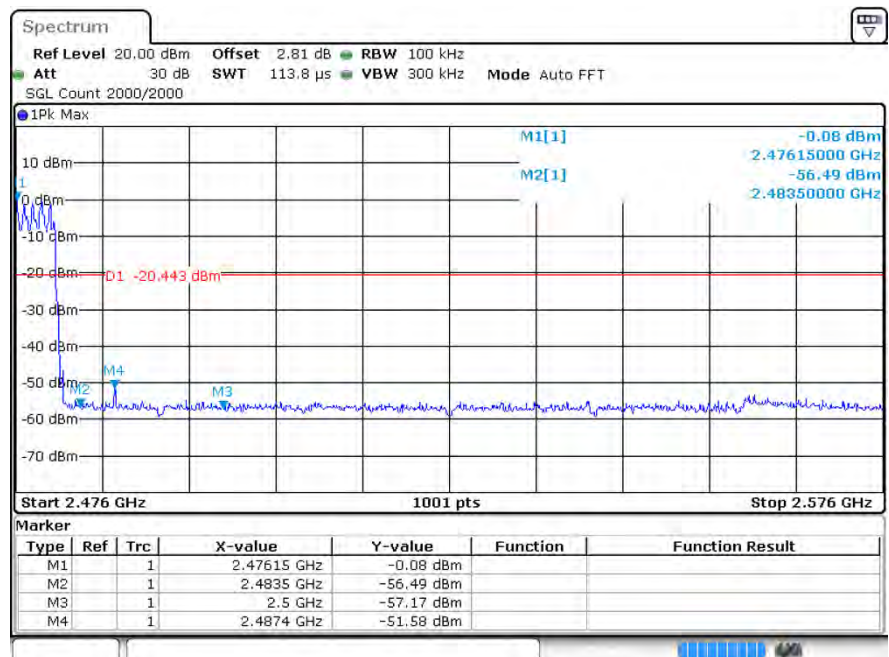
8DPSK/HCH/No Hop



Ref



8DPSK/HCH/Hop



9 Restrict-band band-edge measurements

9.1 Test Result

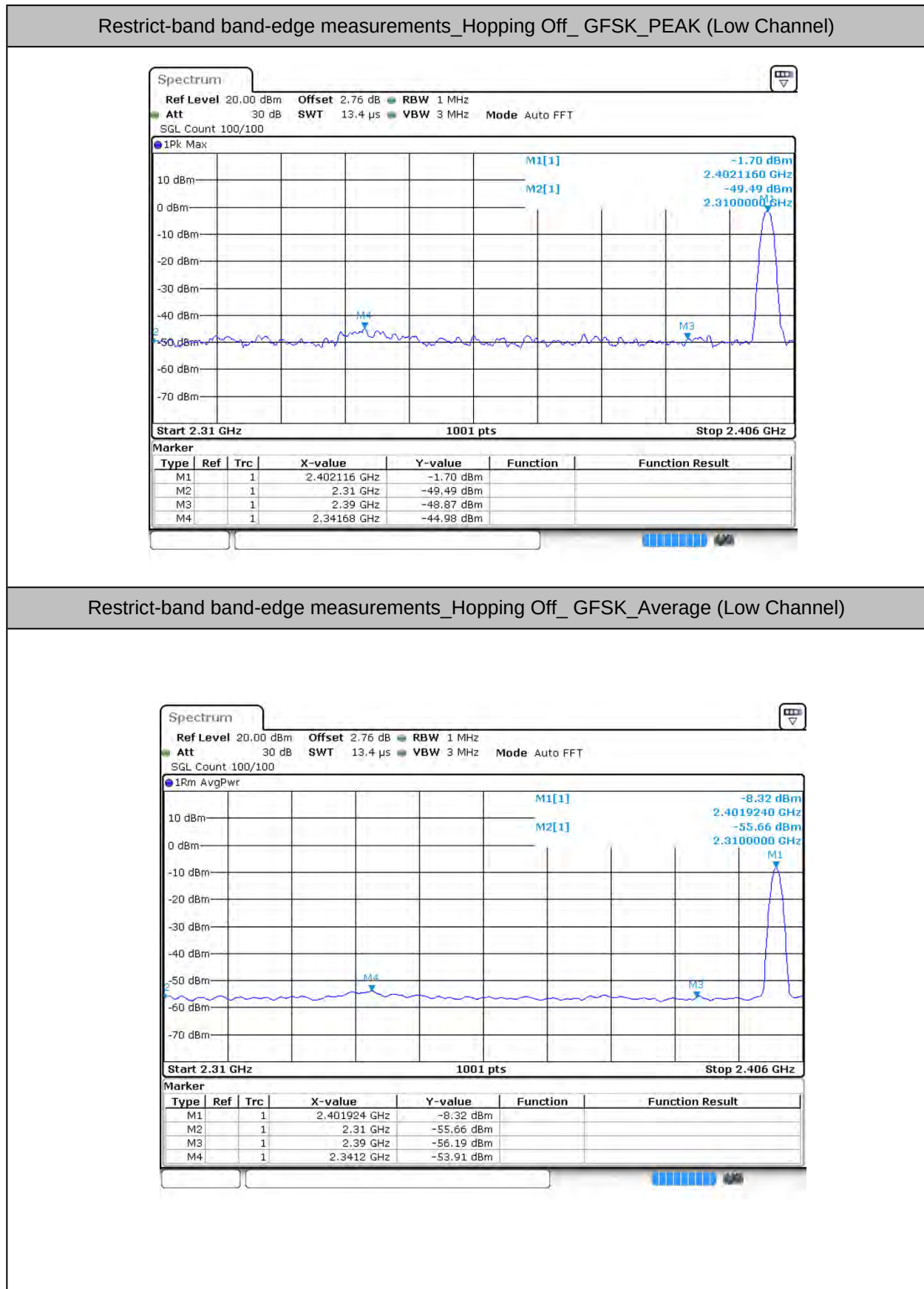
Test Mode	Hopping	Freq.	Power [dBm]	Gain	Duty Factor	E [dBuV/m]	Detector	Limit [dBuV/m]	Verdict
GFSK	Off	2310.0	-49.49	3.3	-	49.07	PEAK	74	Pass
	Off	2310.0	-55.66	3.3	5.04	47.94	AV	54	Pass
	Off	2341.68	-44.98	3.3	-	53.58	PEAK	74	Pass
	Off	2341.2	-53.9	3.3	5.04	49.7	AV	54	Pass
	Off	2390.0	-48.87	3.3	-	49.69	PEAK	74	Pass
	Off	2390.0	-56.19	3.3	5.04	47.41	AV	54	Pass
	Off	2483.5	-48.81	3.3	-	49.75	PEAK	74	Pass
	Off	2483.5	-55.48	3.3	5.06	48.14	AV	54	Pass
	Off	2487.352	-45.51	3.3	-	53.05	PEAK	74	Pass
	Off	2487.688	-55.25	3.3	5.06	48.37	AV	54	Pass
	Off	2500.0	-49.86	3.3	-	48.7	PEAK	74	Pass
	Off	2500.0	-56.15	3.3	5.06	47.47	AV	54	Pass
$\pi/4$ DQPSK	Off	2310.0	-49.25	3.3	-	49.31	PEAK	74	Pass
	Off	2310.0	-55.83	3.3	4.95	47.68	AV	54	Pass
	Off	2352.528	-46.91	3.3	-	51.65	PEAK	74	Pass
	Off	2338.704	-53.78	3.3	4.95	49.73	AV	54	Pass
	Off	2390.0	-49.72	3.3	-	48.84	PEAK	74	Pass
	Off	2390.0	-56.69	3.3	4.95	46.82	AV	54	Pass
	Off	2483.5	-48.27	3.3	-	50.29	PEAK	74	Pass
	Off	2483.5	-56.1	3.3	4.95	47.41	AV	54	Pass
	Off	2489.272	-46.03	3.3	-	52.53	PEAK	74	Pass
	Off	2487.424	-55.13	3.3	4.95	48.38	AV	54	Pass
	Off	2500.0	-49.51	3.3	-	49.05	PEAK	74	Pass
	Off	2500.0	-56.11	3.3	4.95	47.4	AV	54	Pass
8DPSK	Off	2310.0	-50.05	3.3	-	48.51	PEAK	74	Pass
	Off	2310.0	-56.22	3.3	4.95	47.29	AV	54	Pass
	Off	2340.432	-46.19	3.3	-	52.37	PEAK	74	Pass
	Off	2338.224	-54.15	3.3	4.95	49.36	AV	54	Pass



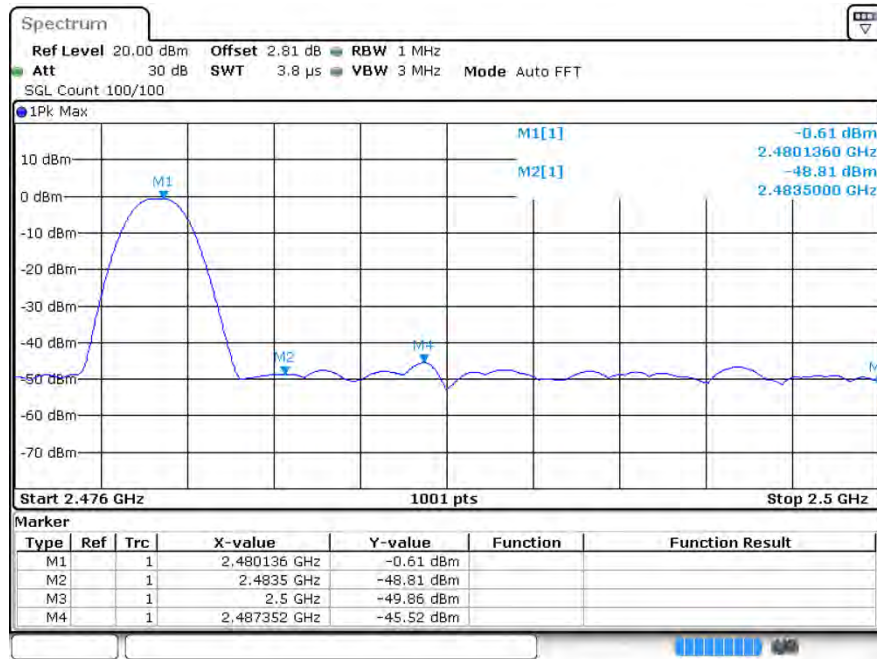
	Off	2390.0	-49.9	3.3	-	48.66	PEAK	74	Pass
	Off	2390.0	-57.44	3.3	4.95	46.07	AV	54	Pass
	Off	2483.5	-49.49	3.3	-	49.07	PEAK	74	Pass
	Off	2483.5	-56.6	3.3	4.95	46.91	AV	54	Pass
	Off	2484.472	-46.1	3.3	-	52.46	PEAK	74	Pass
	Off	2487.376	-54.08	3.3	4.95	49.43	AV	54	Pass
	Off	2500.0	-50.15	3.3	-	48.41	PEAK	74	Pass
	Off	2500.0	-55.6	3.3	4.95	47.91	AV	54	Pass

9.2 Test Graphs

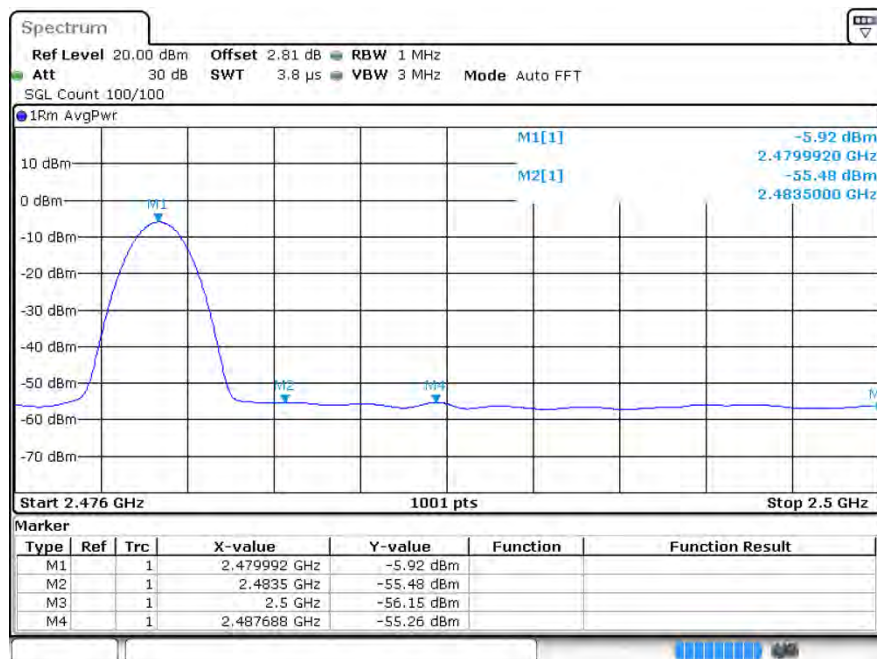
Model name:	GX-AiO100	Test Date :	2026-07-22
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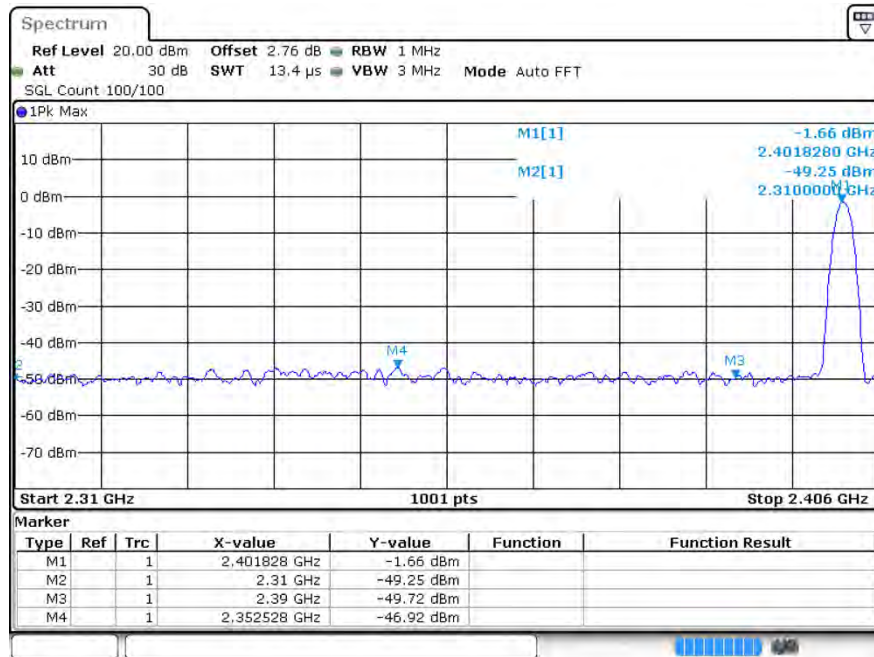
Restrict-band band-edge measurements_Hopping Off_ GFSK_PEAK (High Channel)



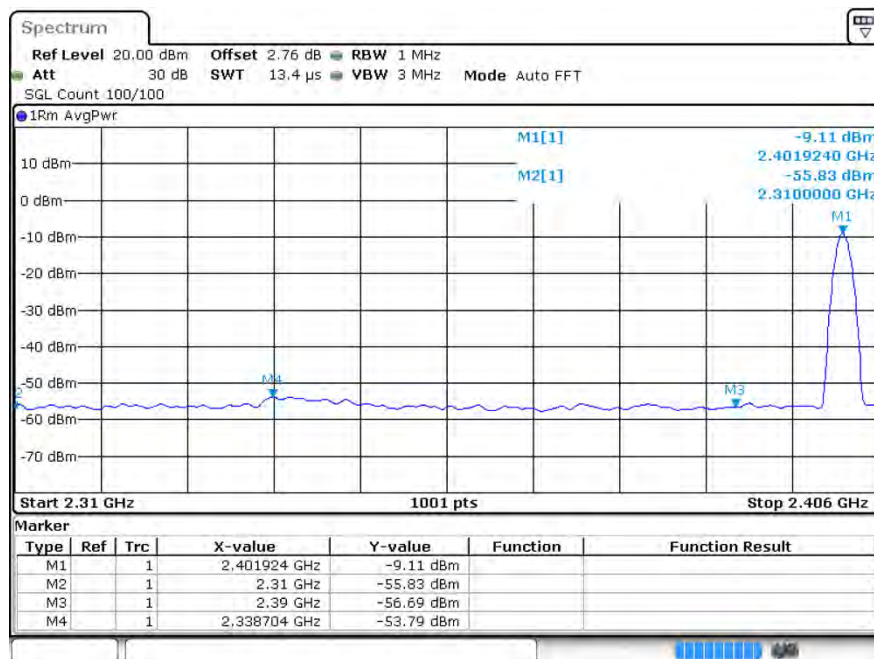
Restrict-band band-edge measurements_Hopping Off_ GFSK_Average (High Channel)



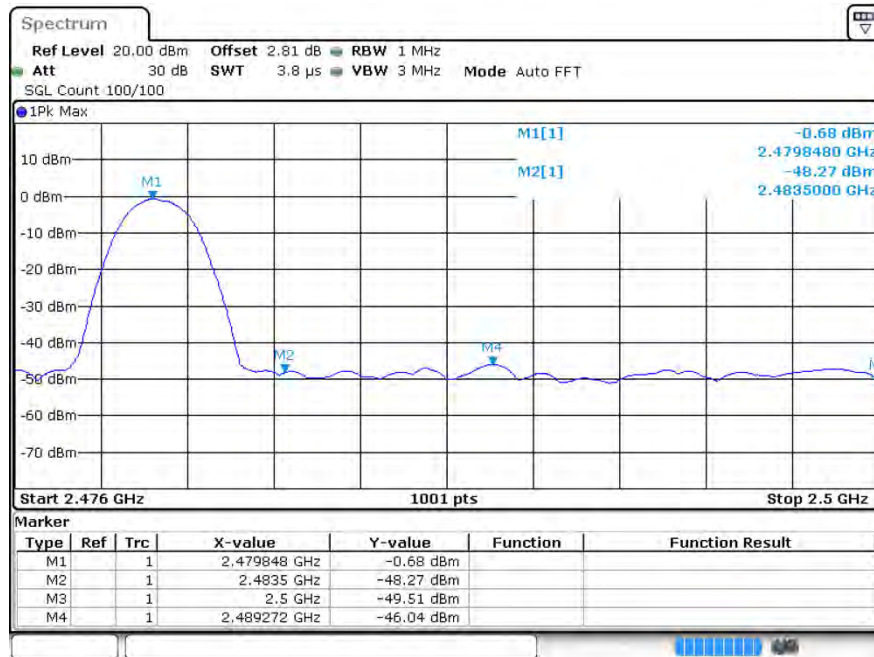
Restrict-band band-edge measurements_Hopping Off_π/4-DQPSK_PEAK (Low Channel)



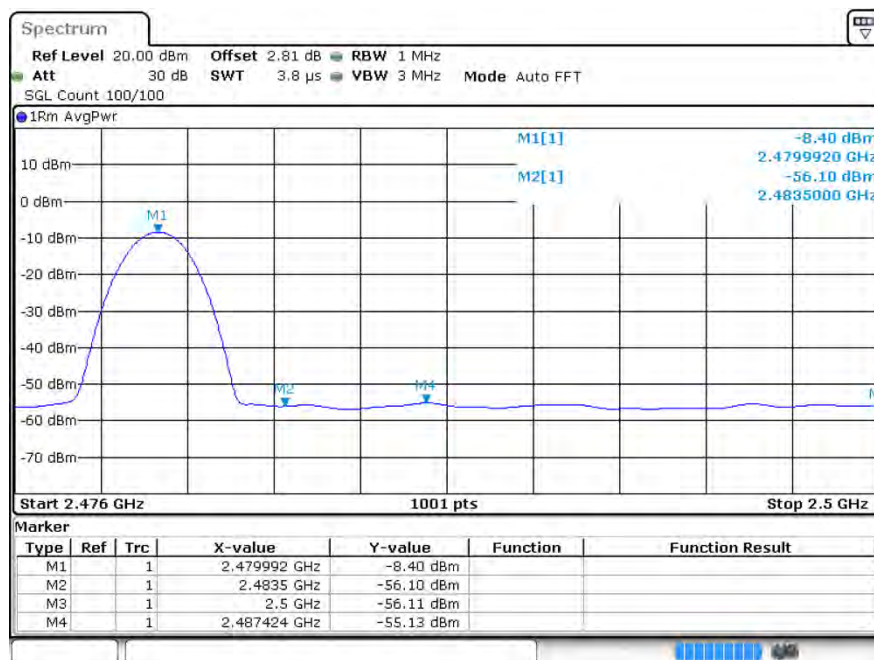
Restrict-band band-edge measurements_Hopping Off_π/4-DQPSK_Average (Low Channel)



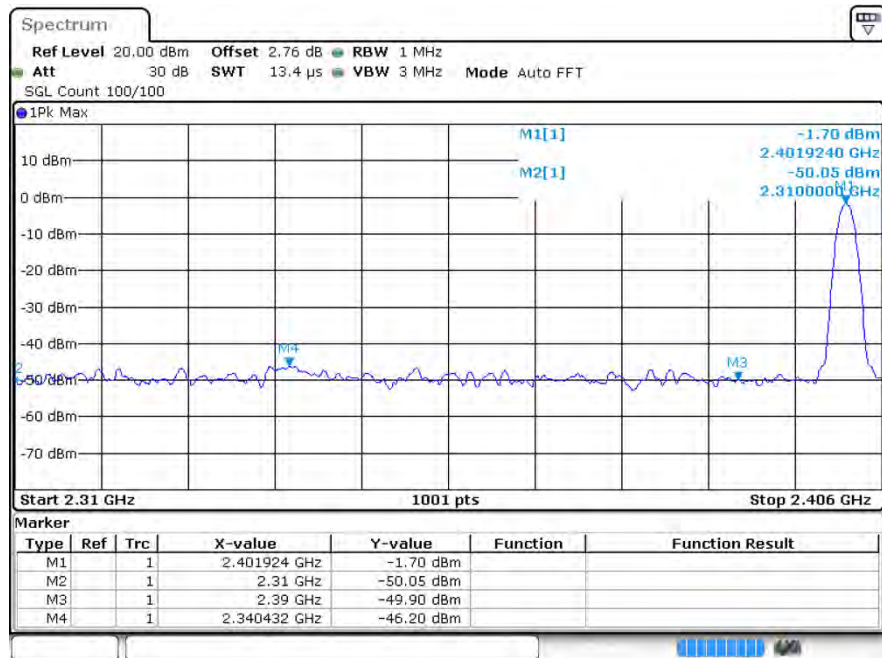
Restrict-band band-edge measurements_Hopping Off_π/4-DQPSK_PEAK (High Channel)



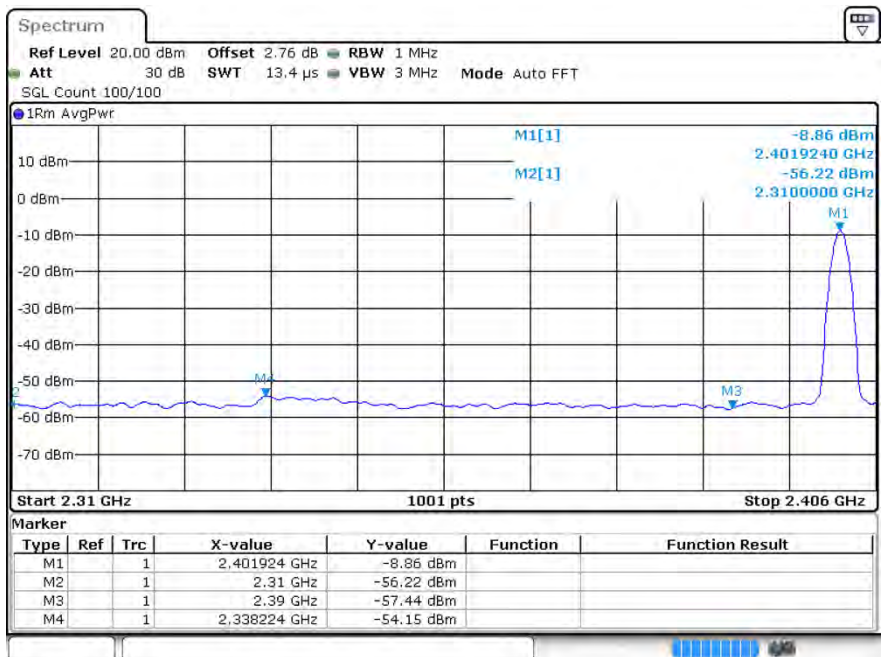
Restrict-band band-edge measurements_Hopping Off_π/4-DQPSK_Average (High Channel)



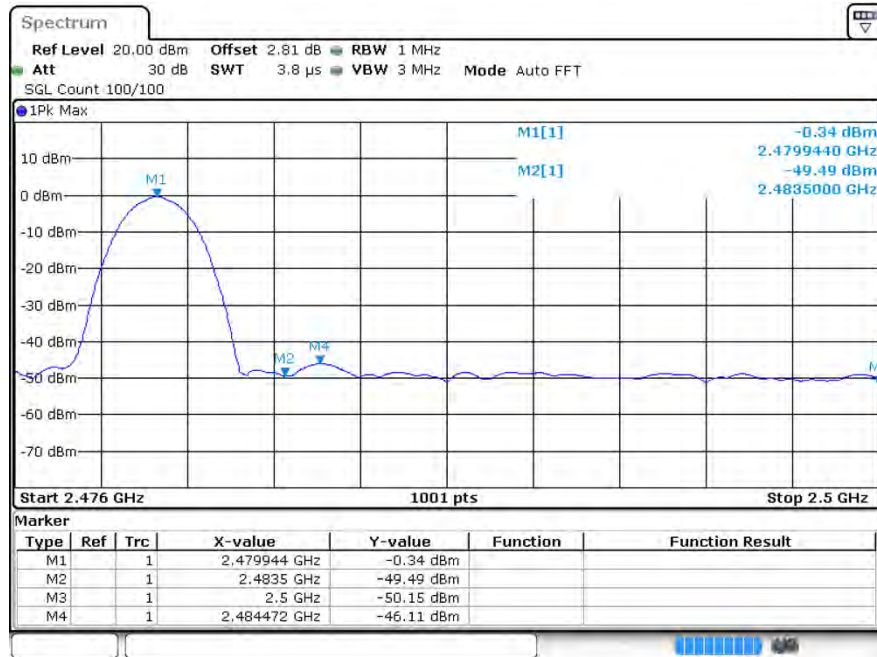
Restrict-band band-edge measurements_Hopping Off_8DPSK_PEAK (Low Channel)



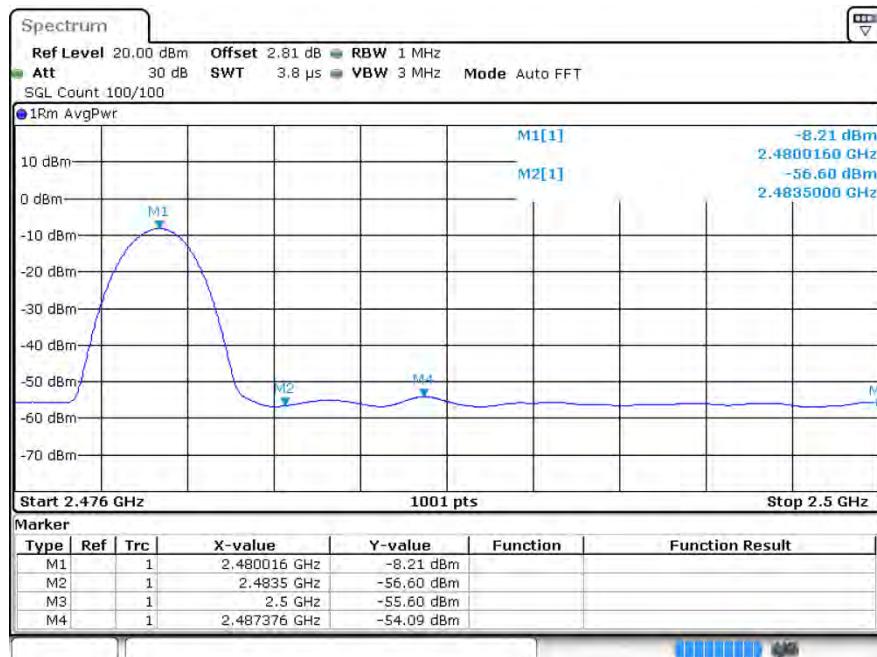
Restrict-band band-edge measurements_Hopping Off_8DPSK_Average (Low Channel)



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



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



---The End---