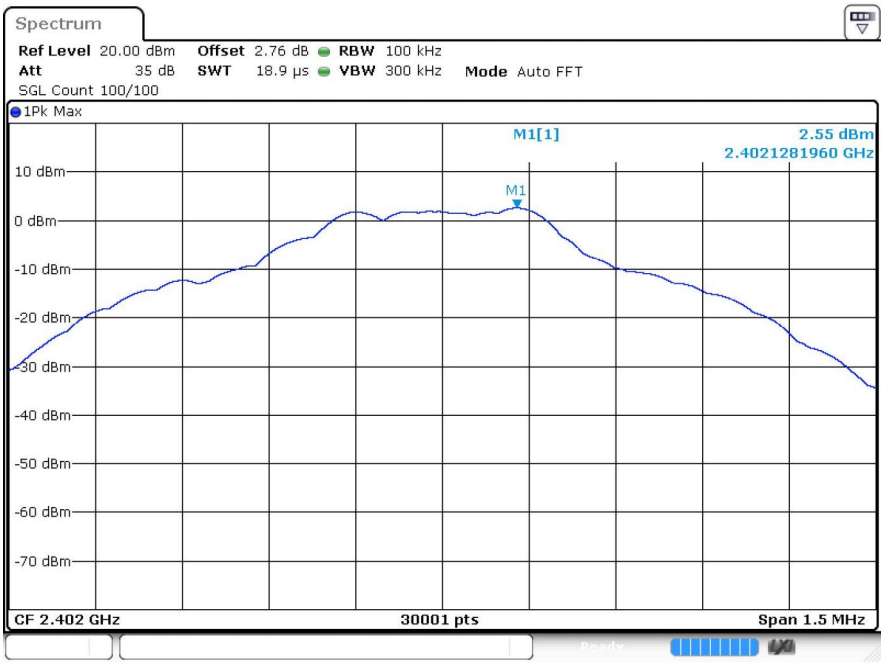
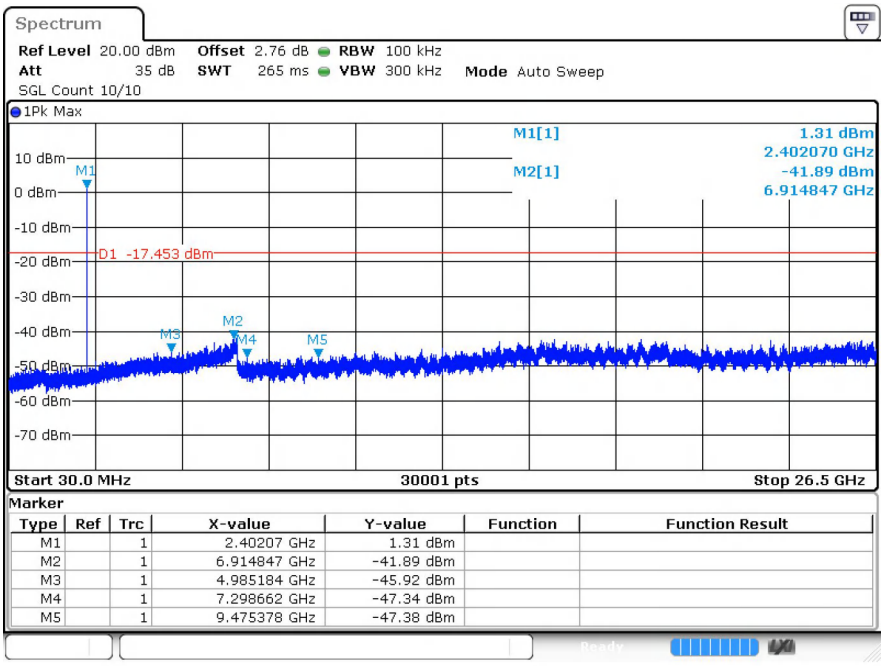
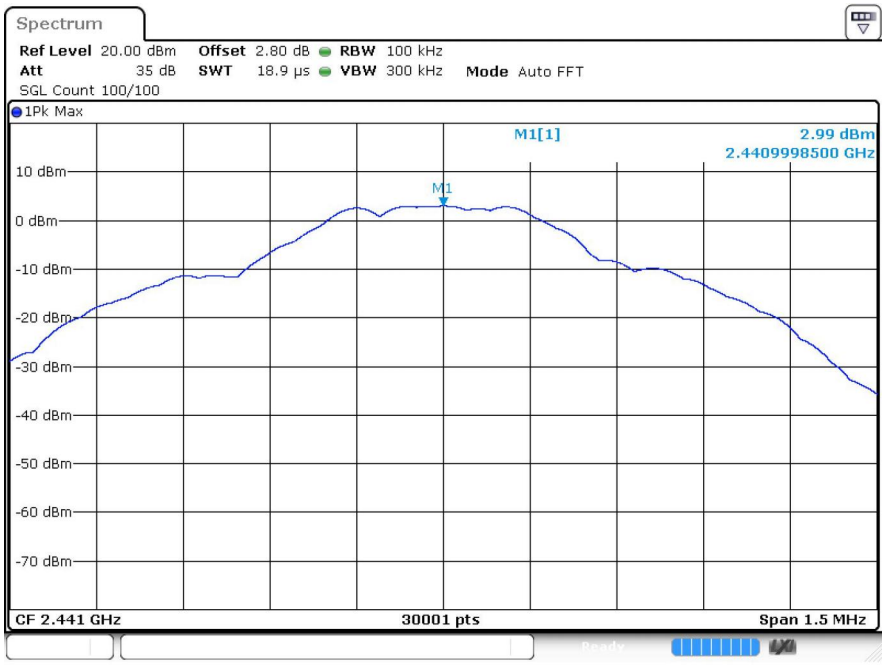
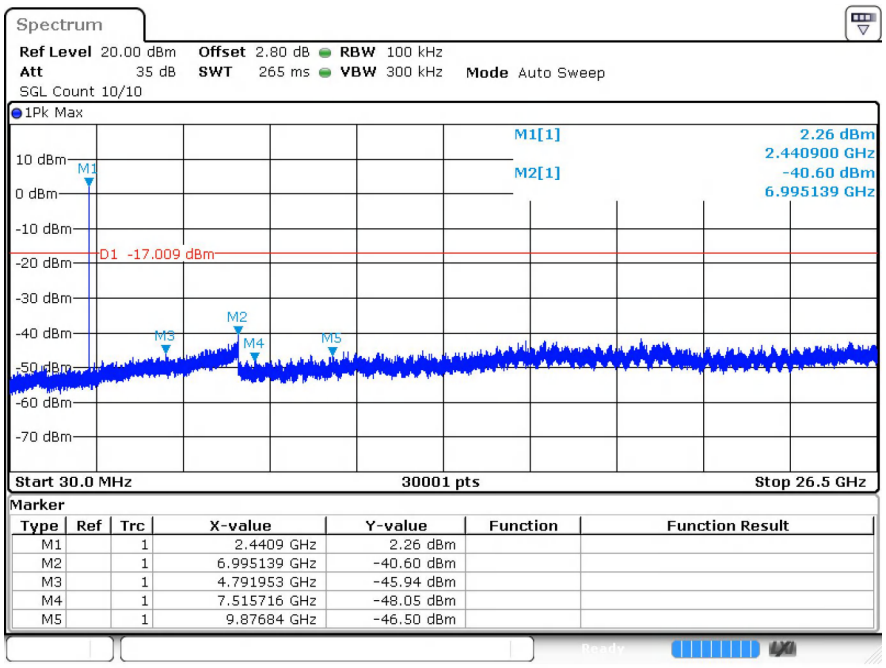
7 RF Conducted Spurious Emissions

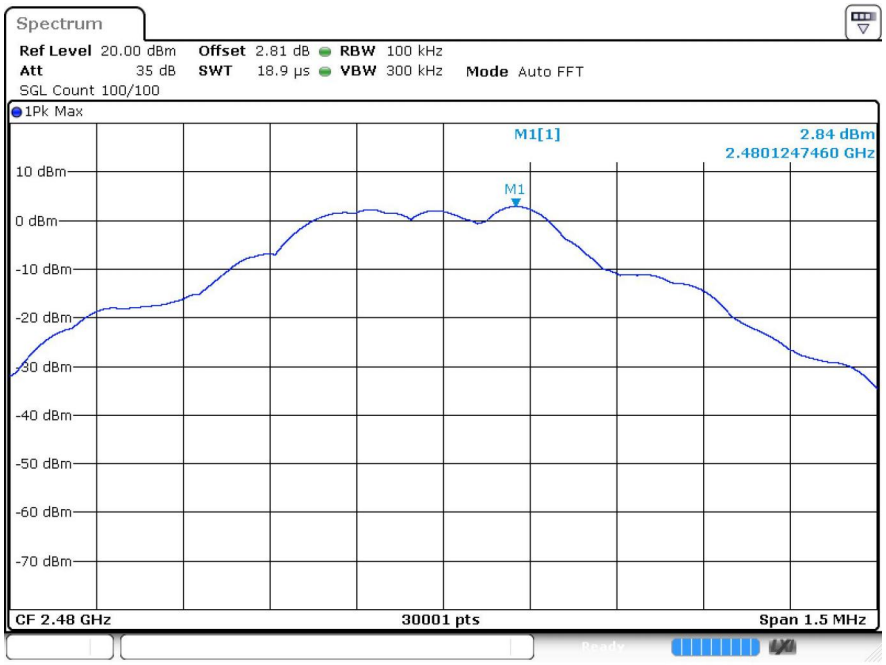
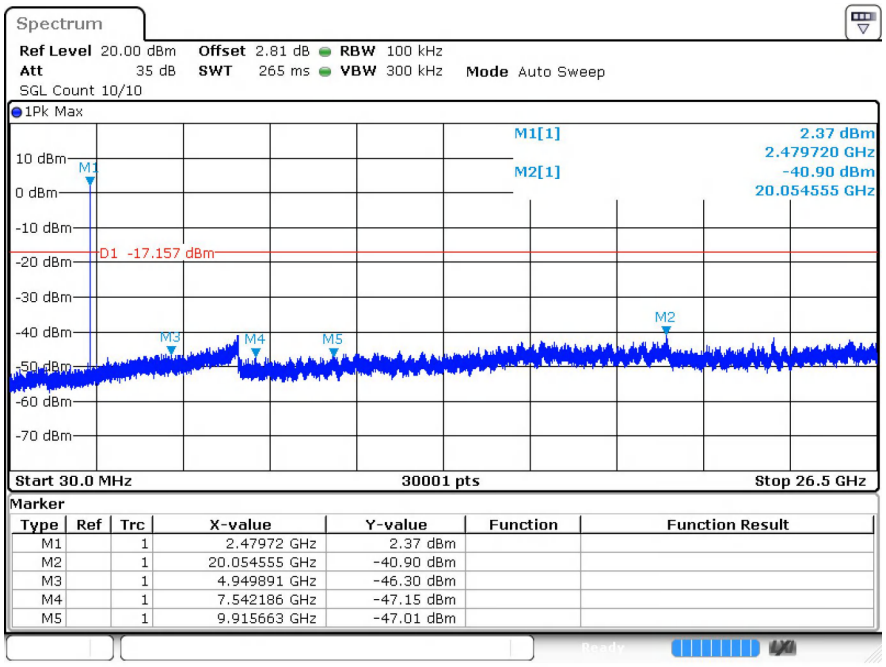
7.1 Test Result

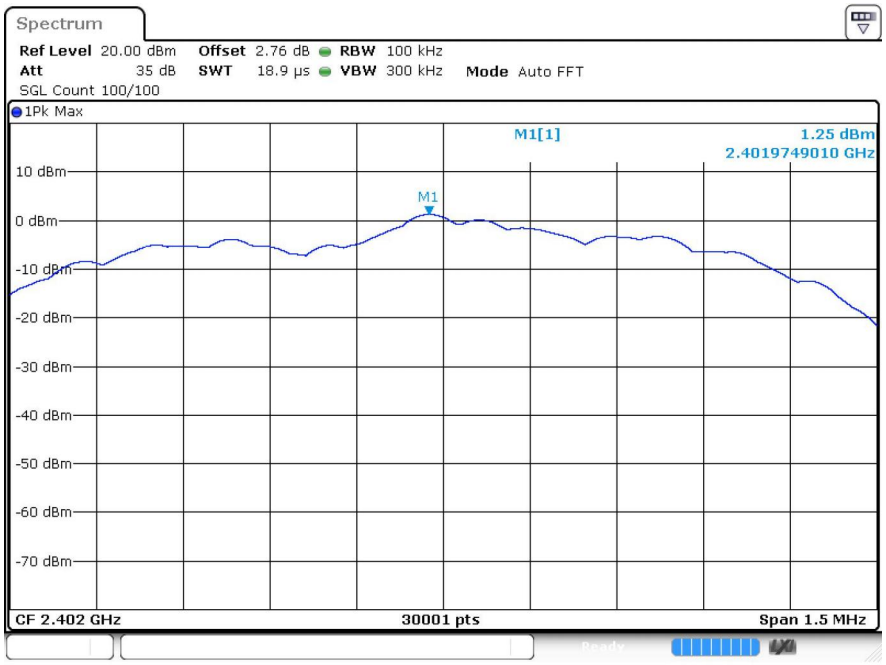
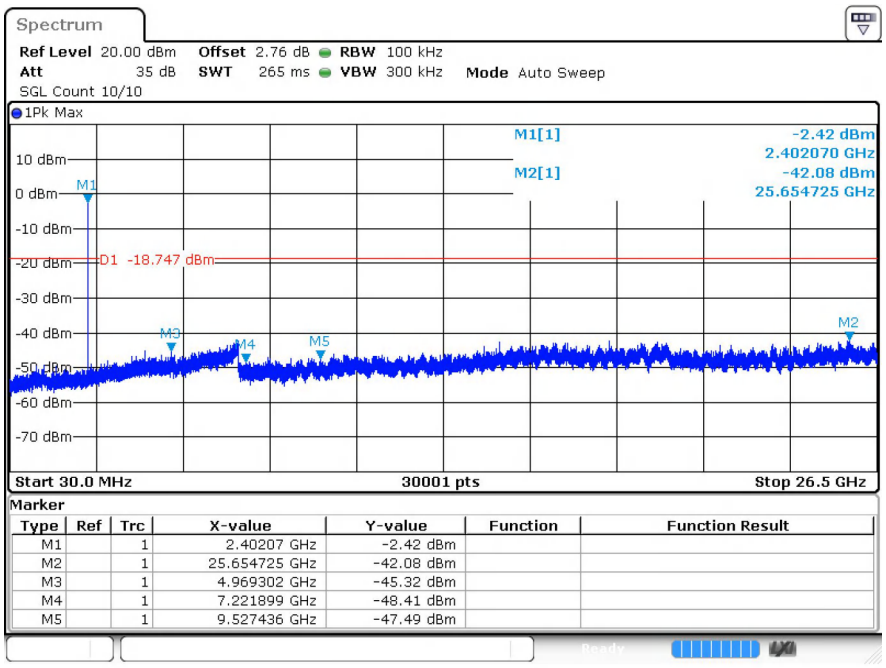
Mode	Channel	Max. Level [dBc]	Limit [dBc]	Verdict
GFSK	LCH	-44.44	-20	Pass
	MCH	-43.58	-20	Pass
	HCH	-43.74	-20	Pass
π/4DQPSK	LCH	-43.32	-20	Pass
	MCH	-42.73	-20	Pass
	HCH	-42.09	-20	Pass
8DPSK	LCH	-40.99	-20	Pass
	MCH	-41.83	-20	Pass
	HCH	-42.52	-20	Pass

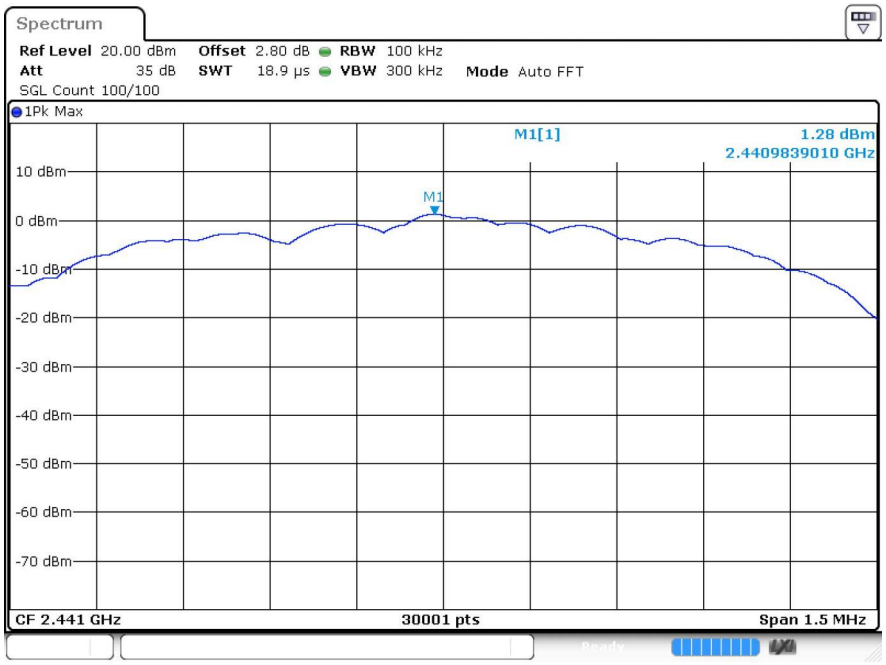
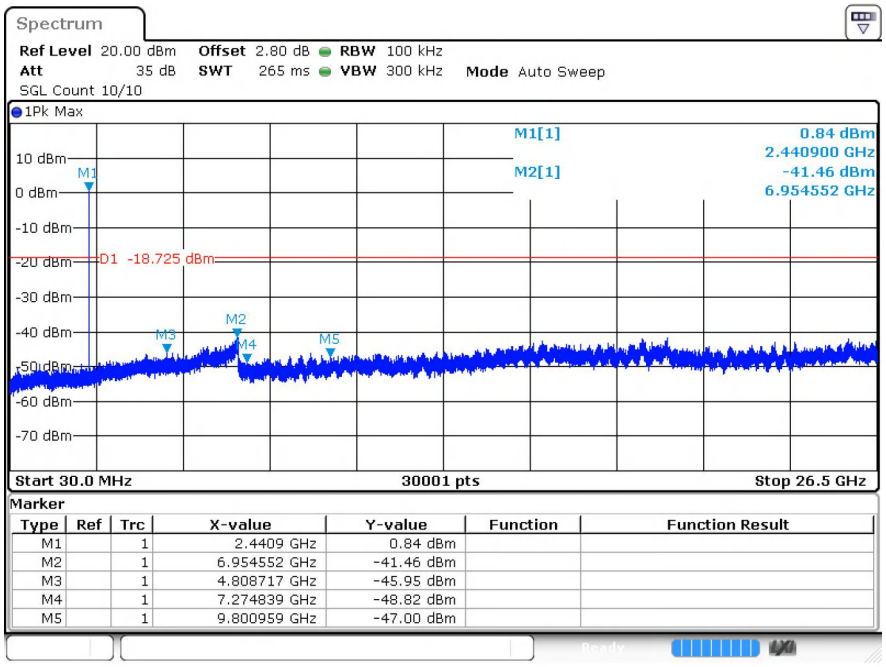
7.2 Test Graphs

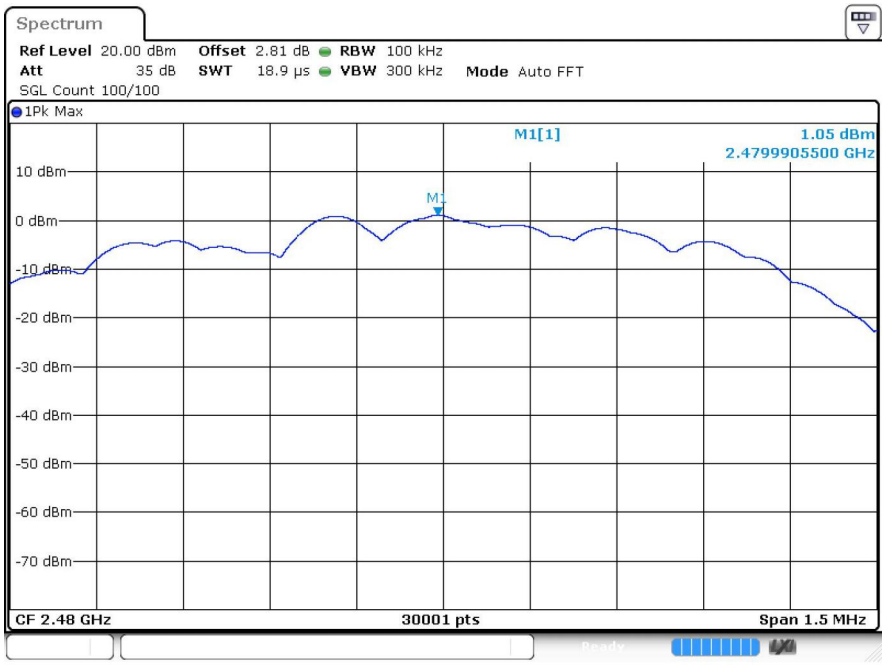
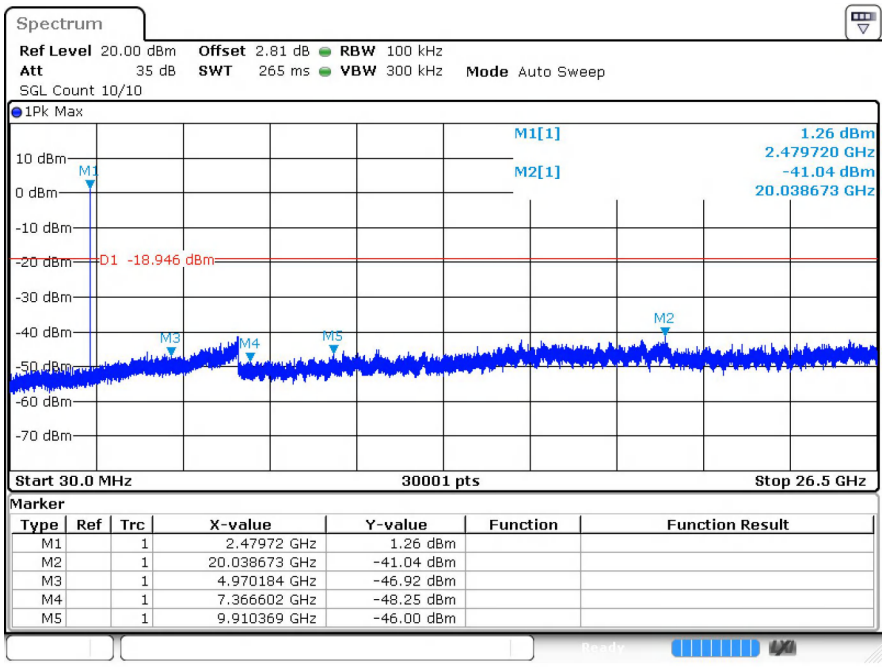
GFSK_LCH_Graphs	
Pref	
Puw	

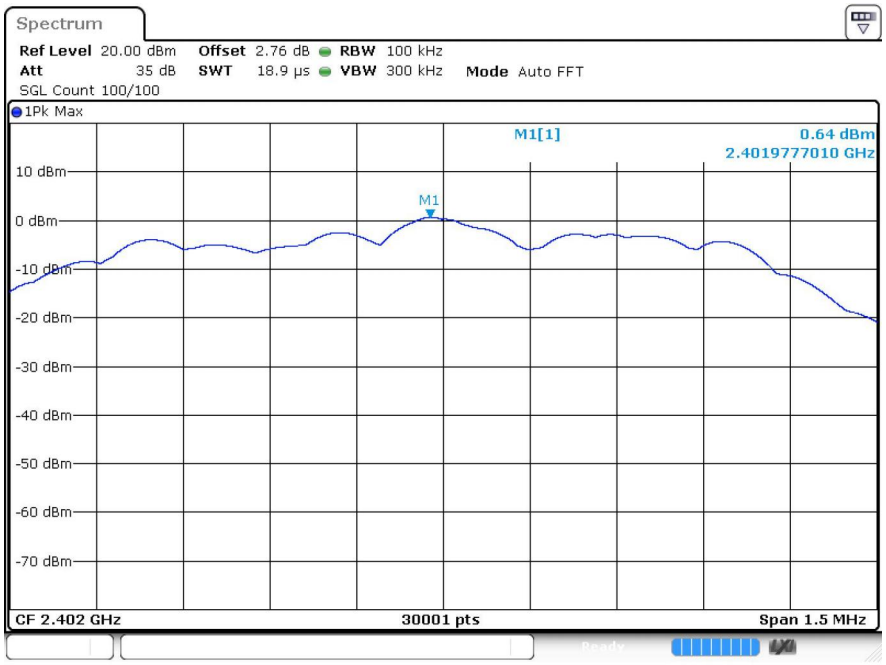
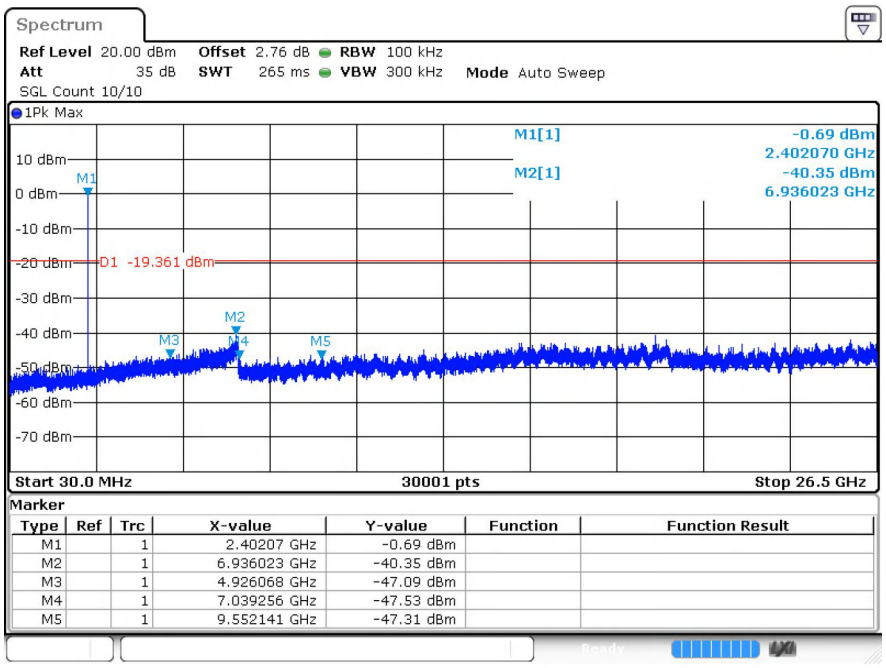
GFSK_MCH_Graphs	
Pref	
Puw	

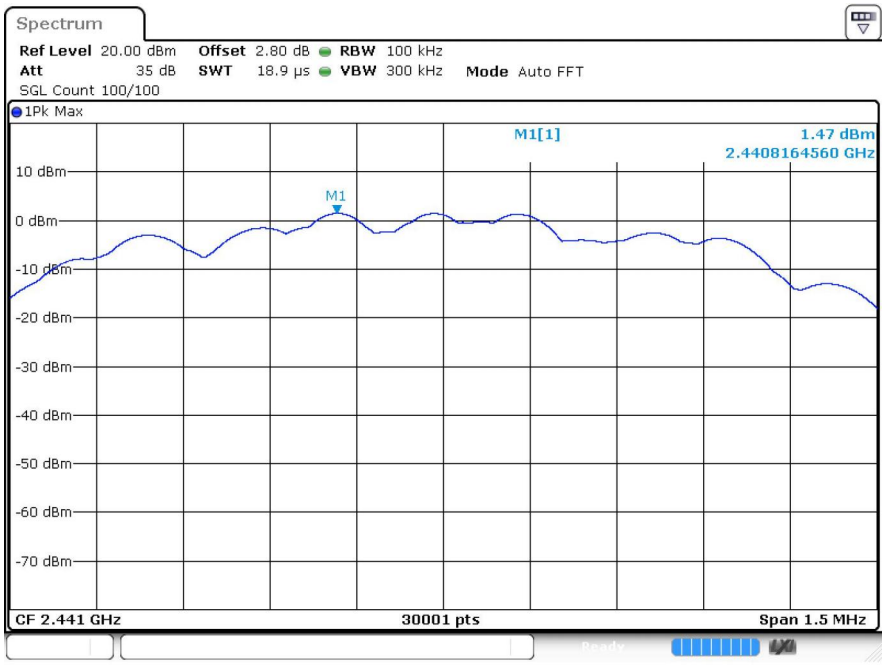
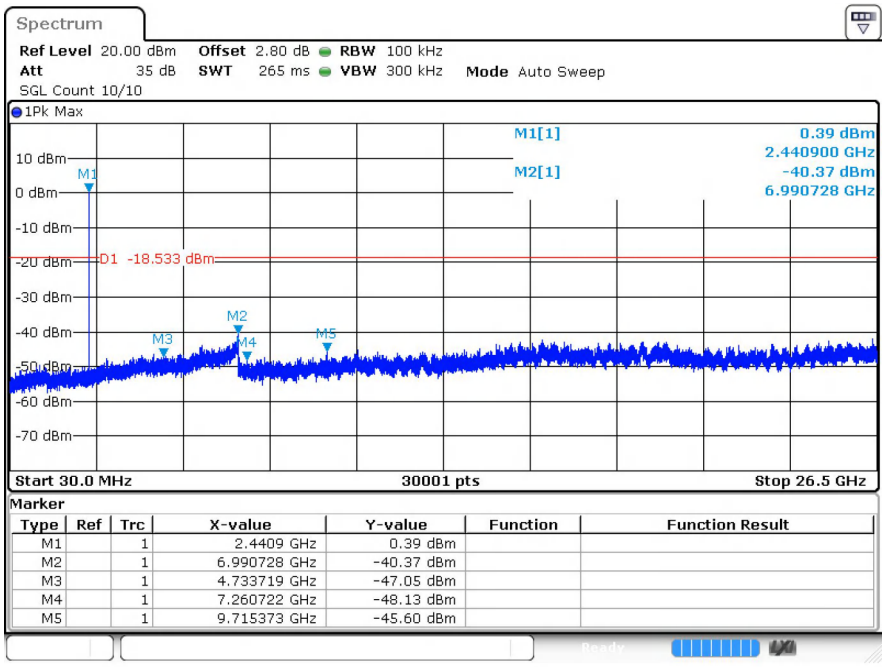
GFSK_HCH_Graphs	
Pref	
Puw	

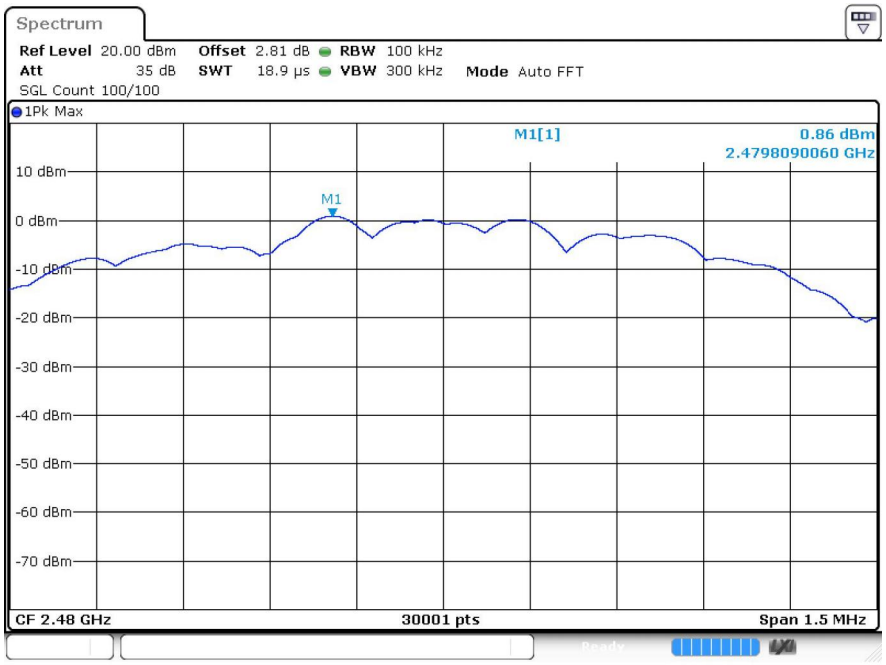
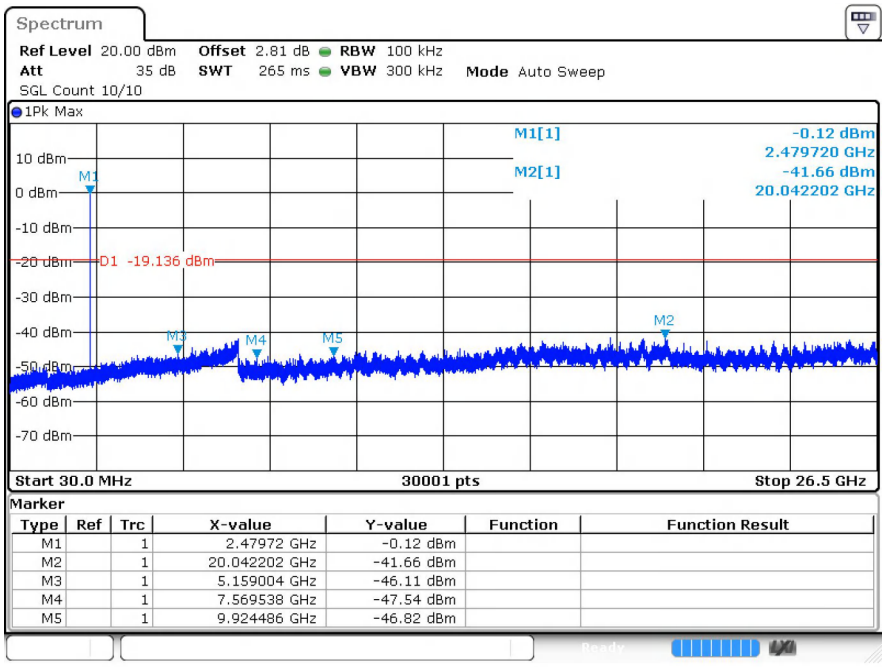
π/4DQPSK_LCH_Graphs	
Pref	
Puw	

π/4DQPSK_MCH_Graphs	
Pref	
Puw	

π/4DQPSK_HCH_Graphs	
Pref	
Puw	

8DPSK_LCH_Graphs	
Pref	
Puw	

8DPSK_MCH_Graphs	
Pref	
Puw	

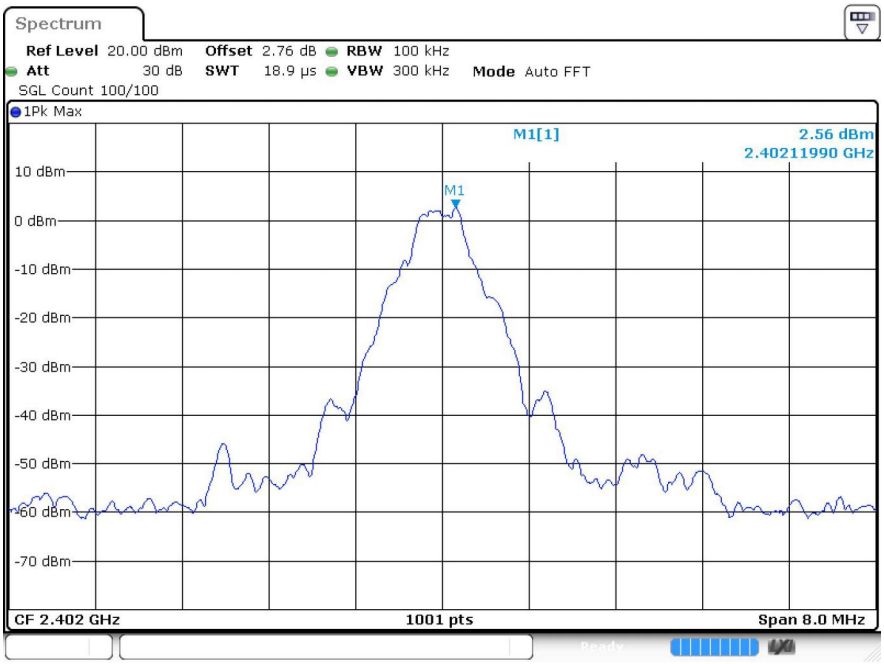
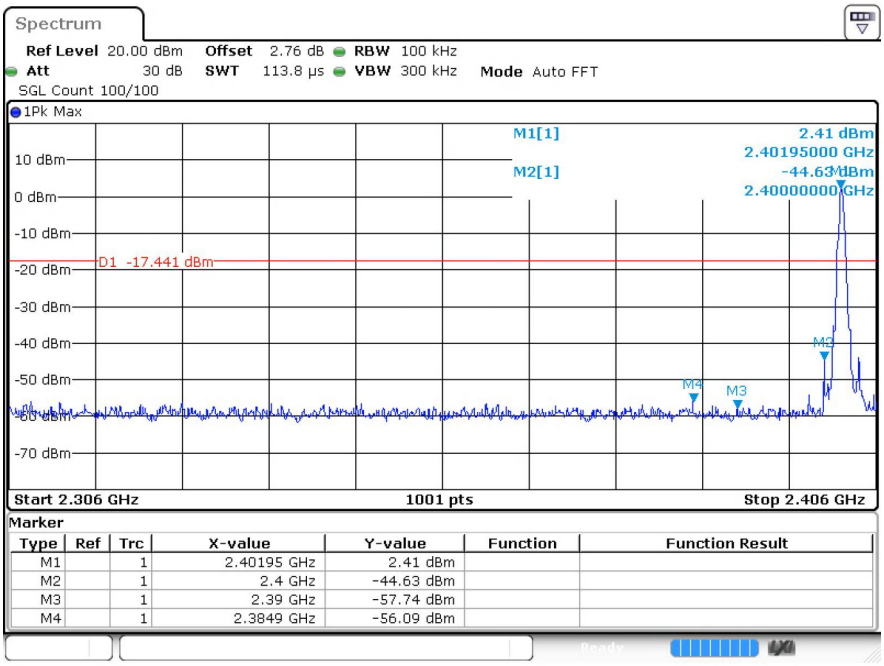
8DPSK_HCH_Graphs	
Pref	
Puw	

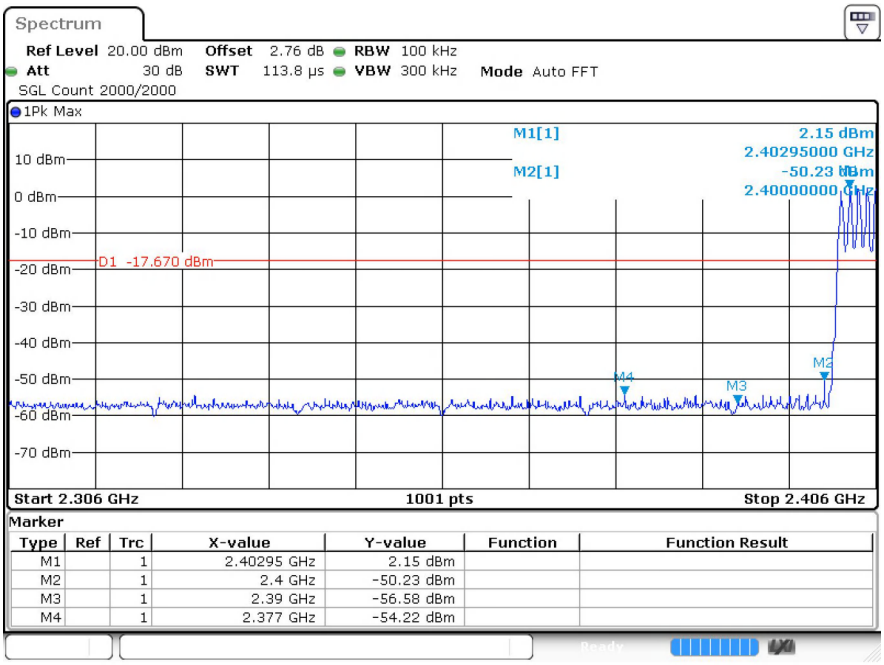
8 Band-edge for RF Conducted Emissions

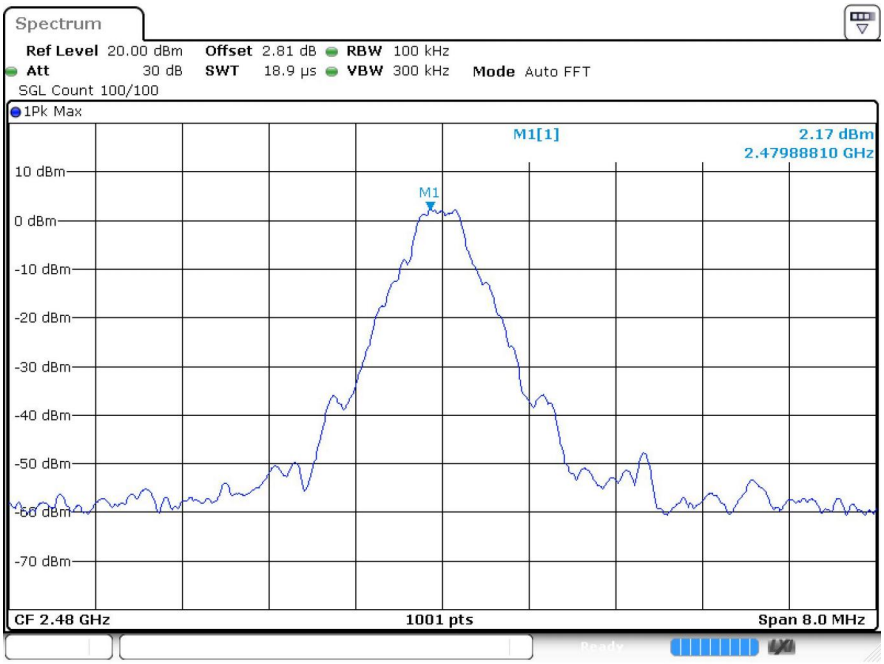
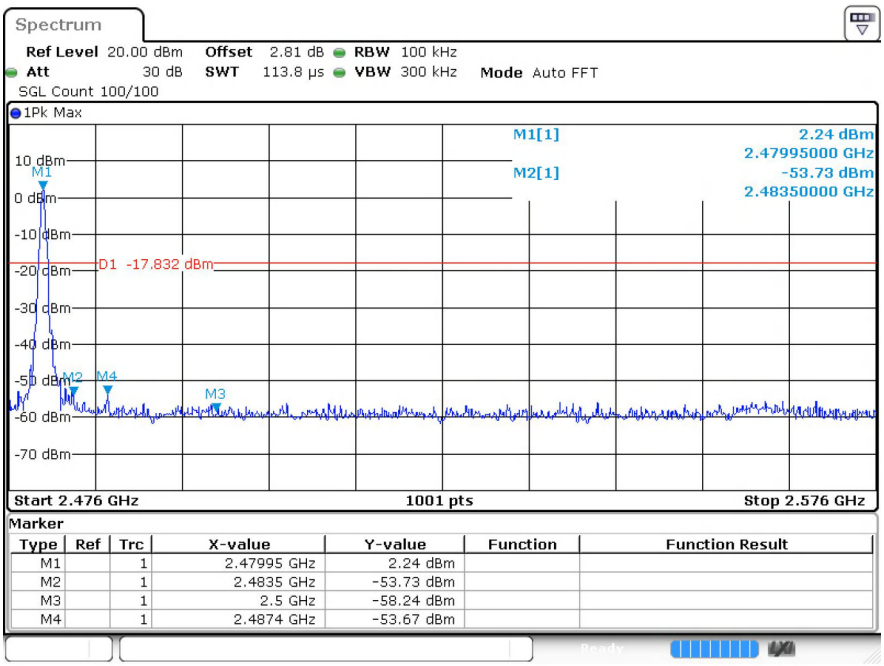
8.1 Test Result

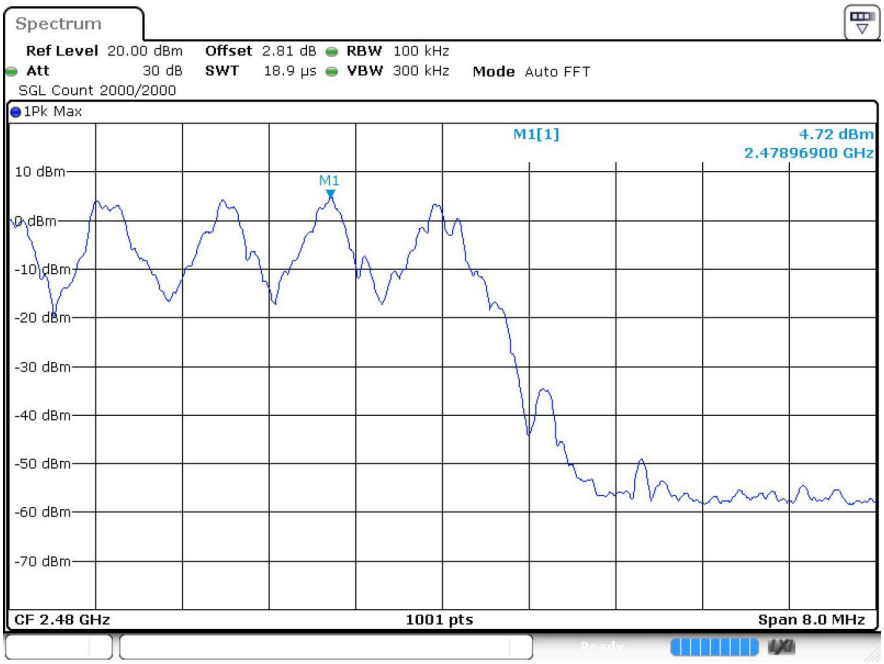
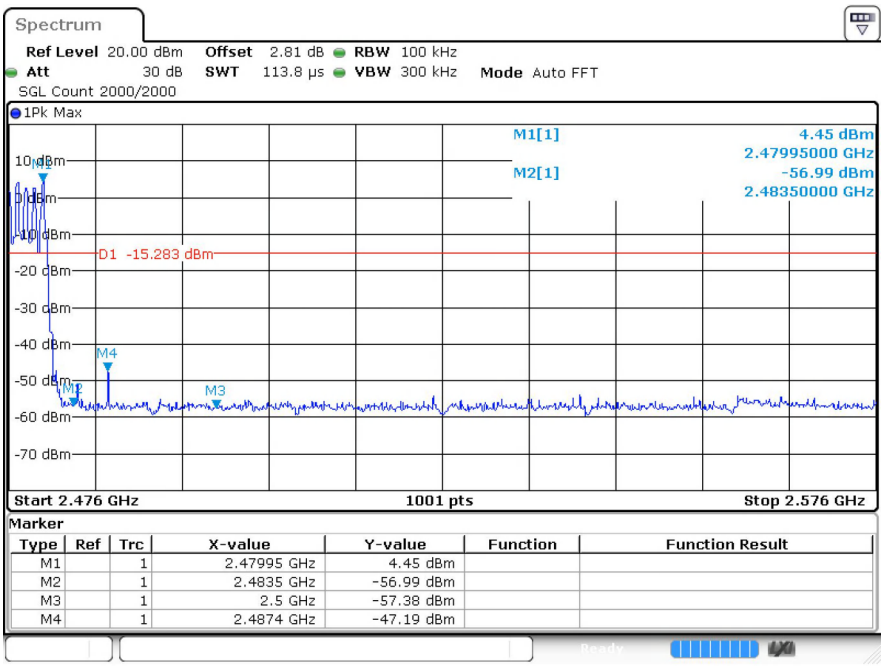
Mode	Channel	Carrier Frequency [MHz]	Frequency Hopping	Max Spurious Level [dBc]	Limit [dBc]	Verdict
GFSK	LCH	2402	Off	-58.65	-20	Pass
			On	-56.54	-20	Pass
	HCH	2480	Off	-55.84	-20	Pass
			On	-51.91	-20	Pass
π/4DQPSK	LCH	2402	Off	-56.41	-20	Pass
			On	-56.01	-20	Pass
	HCH	2480	Off	-48.77	-20	Pass
			On	-54.9	-20	Pass
8DPSK	LCH	2402	Off	-56.18	-20	Pass
			On	-55.33	-20	Pass
	HCH	2480	Off	-53	-20	Pass
			On	-54.35	-20	Pass

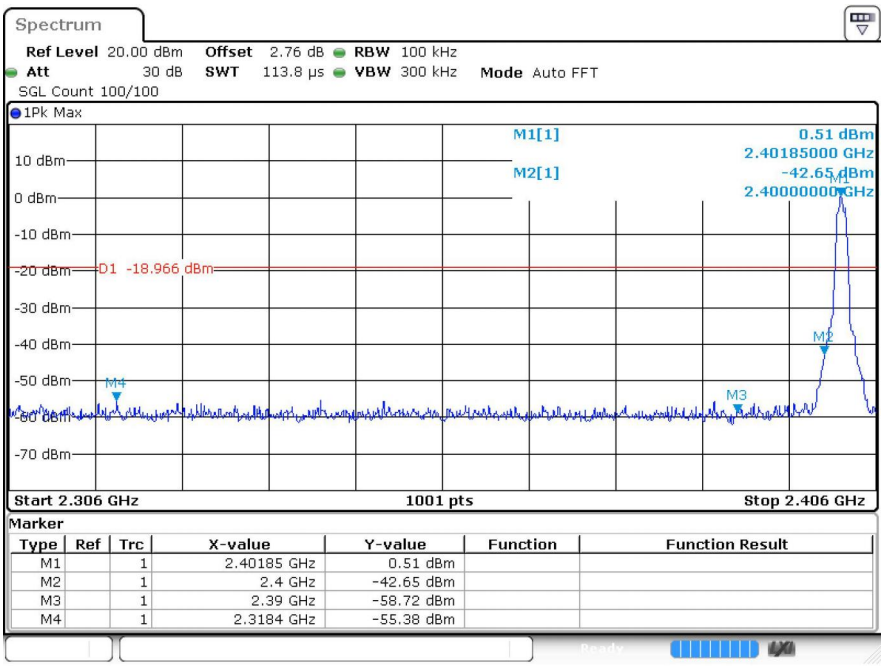
8.2 Test Graphs

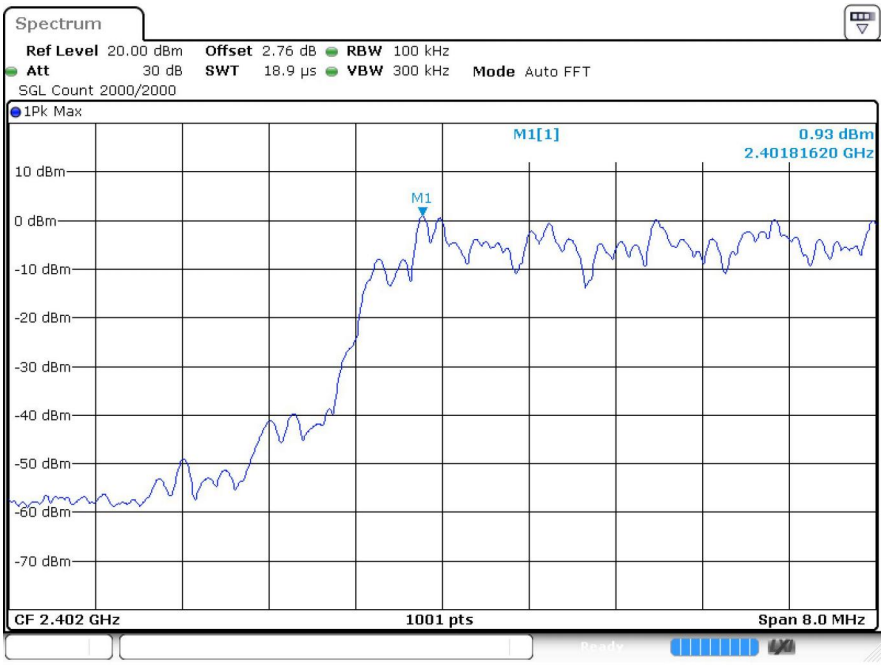
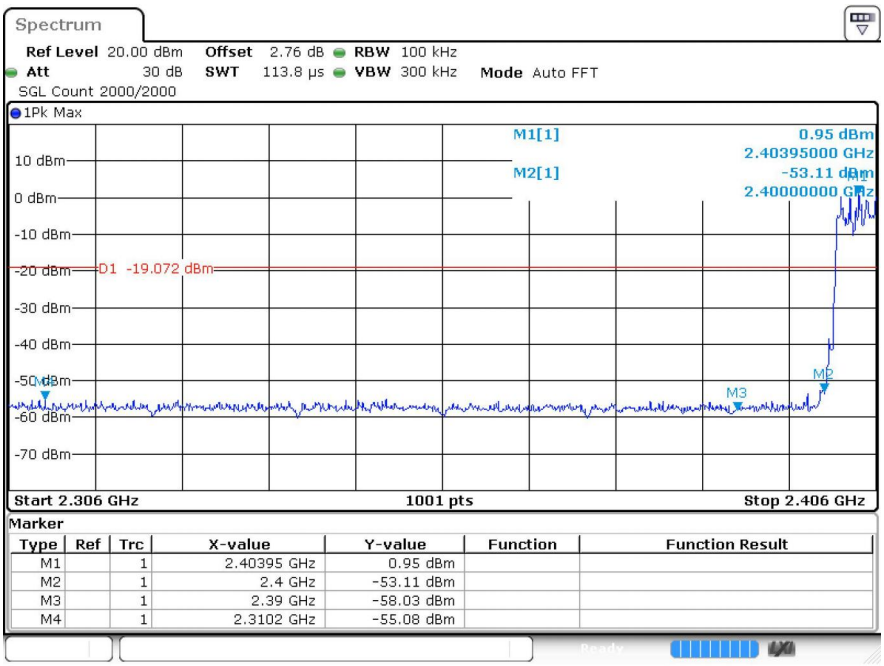
Test Graphs	
Pref	
GFSK/LCH/No Hop	

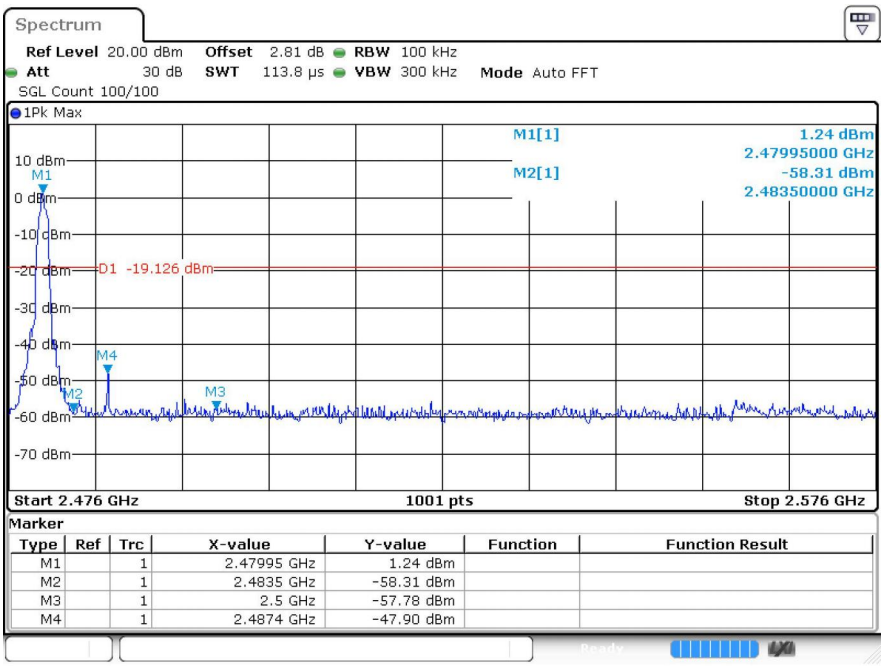
Ref	
GFSK/LCH/Hop	

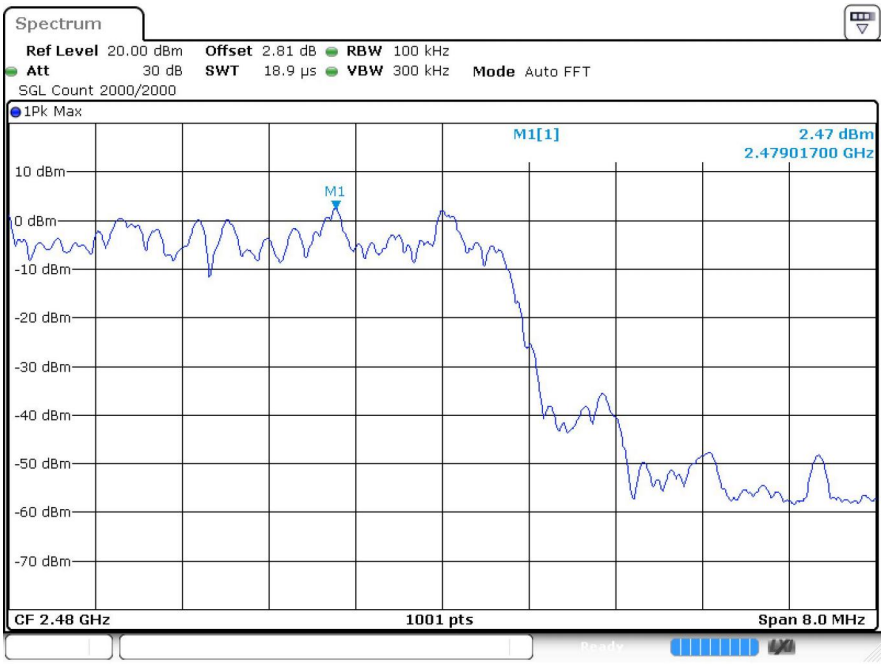
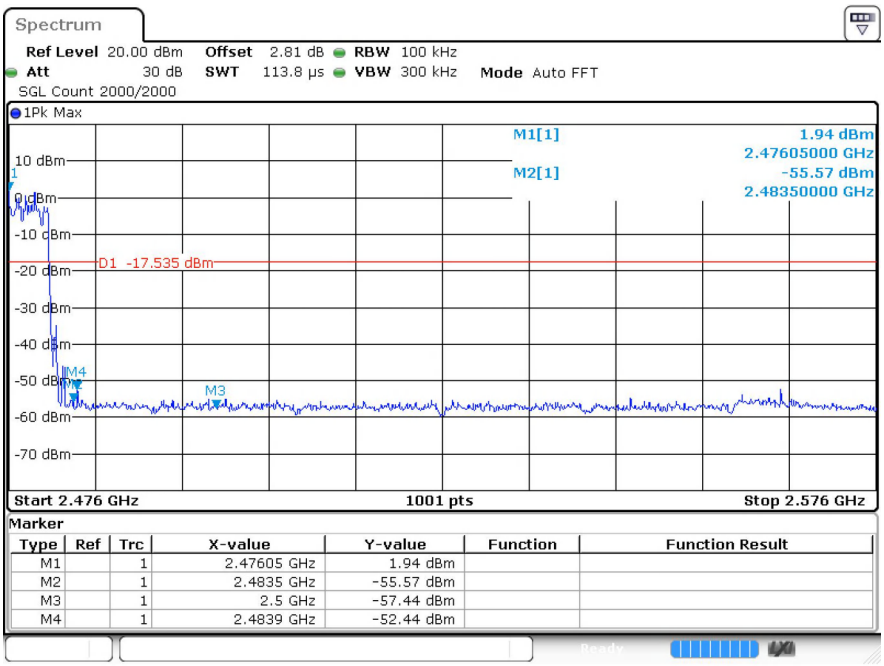
Ref	
GFSK/HCH/No Hop	

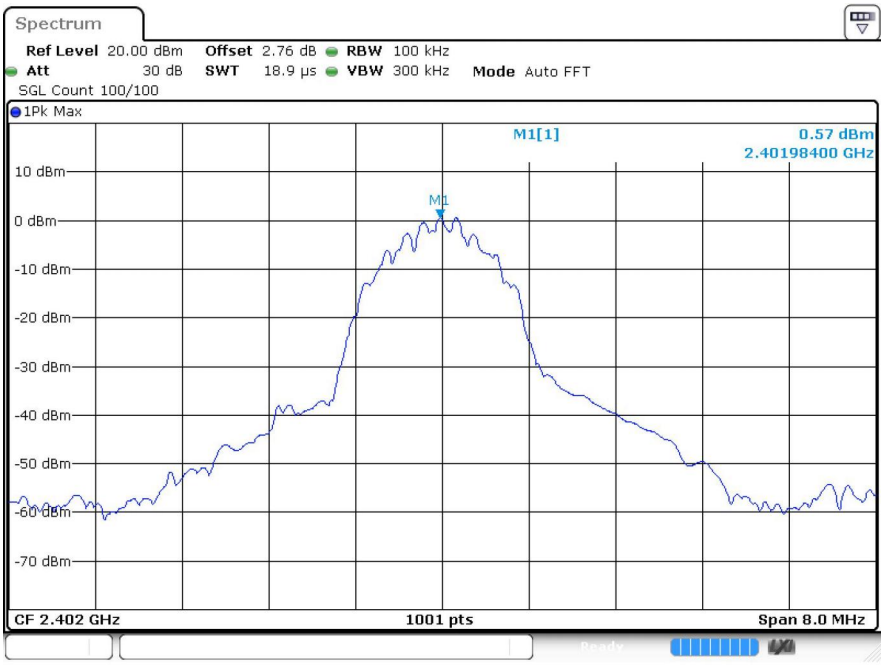
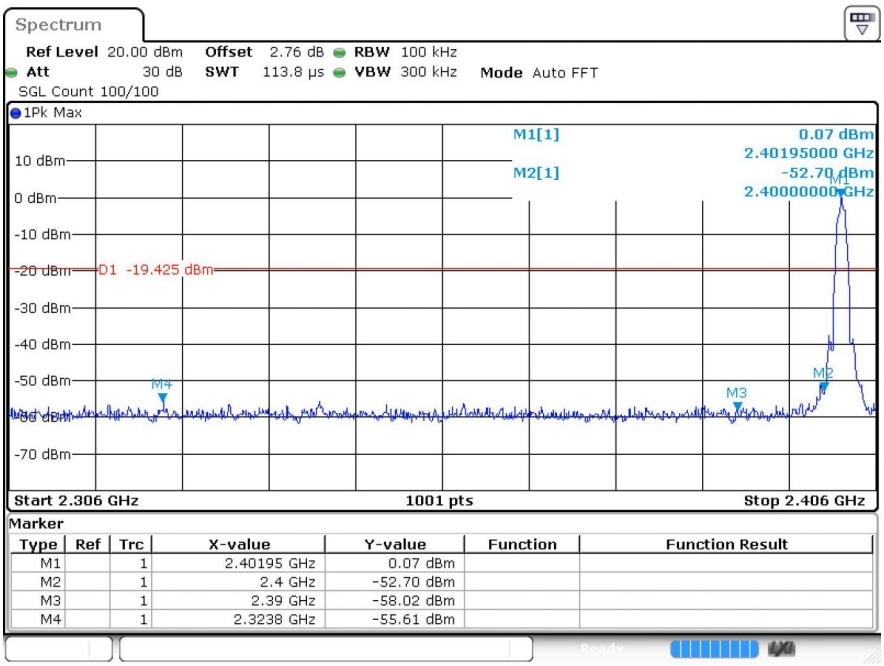
Ref.	
GFSK/HCH/Hop	

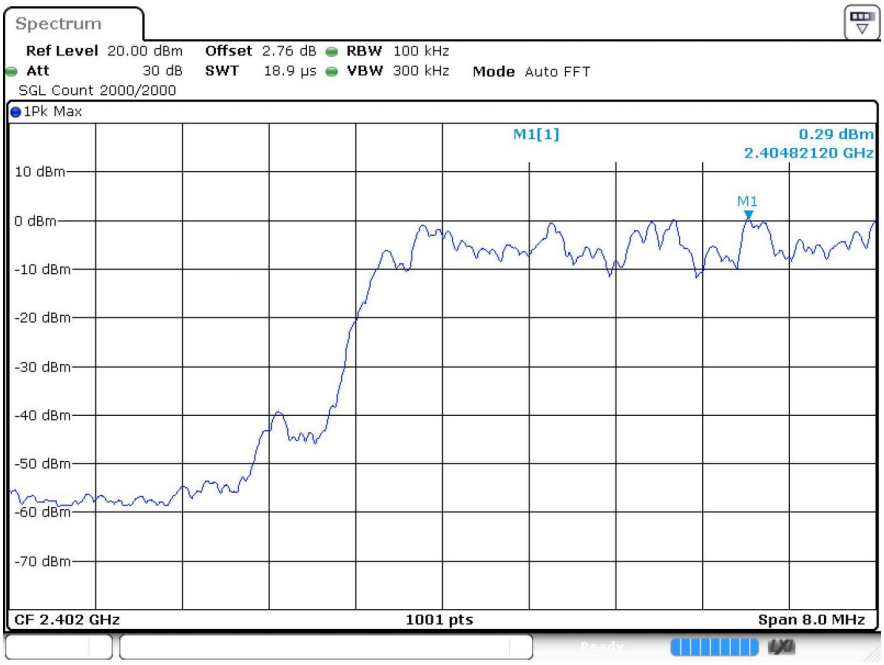
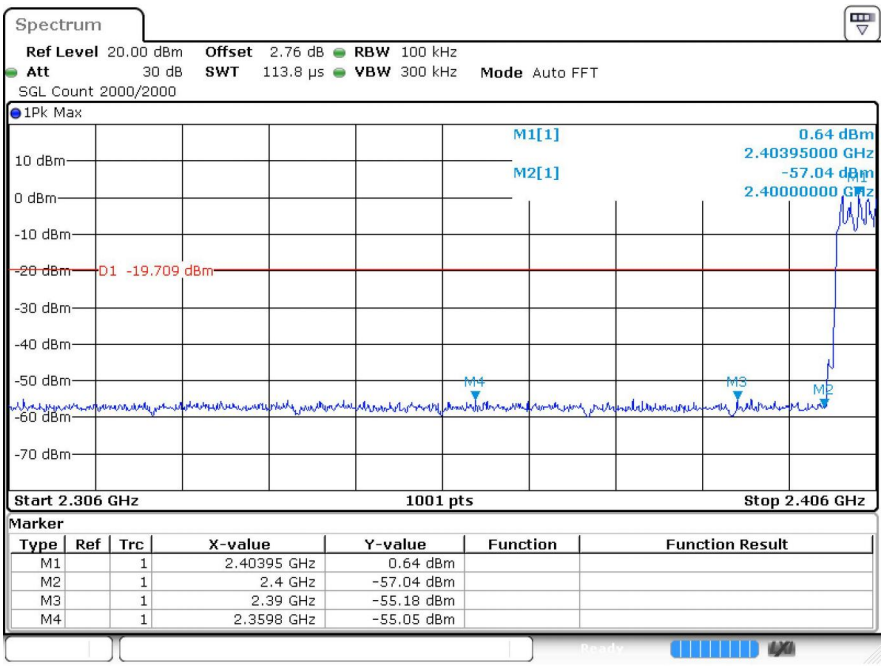
Ref	
π/4DQPSK/LCH/No Hop	

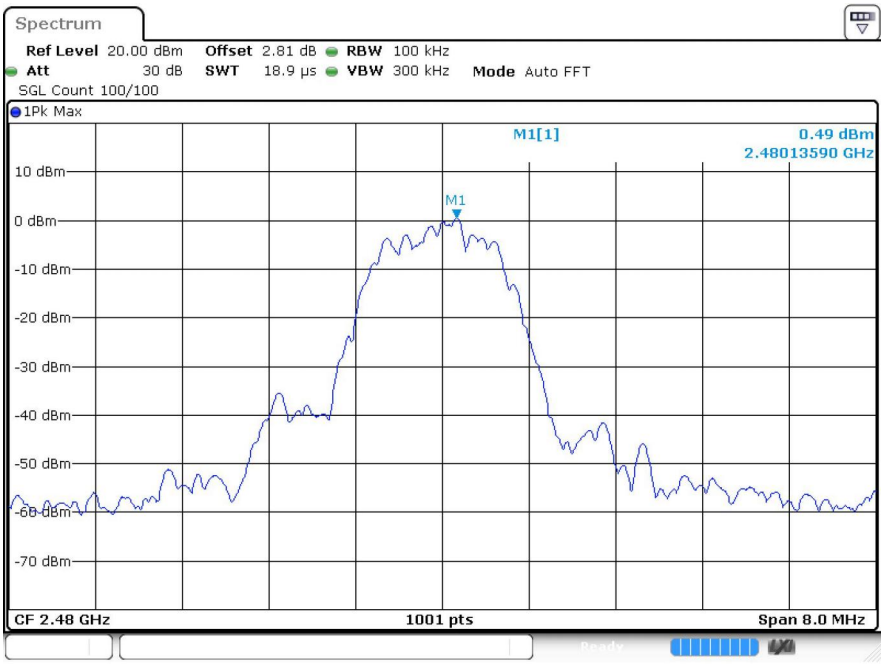
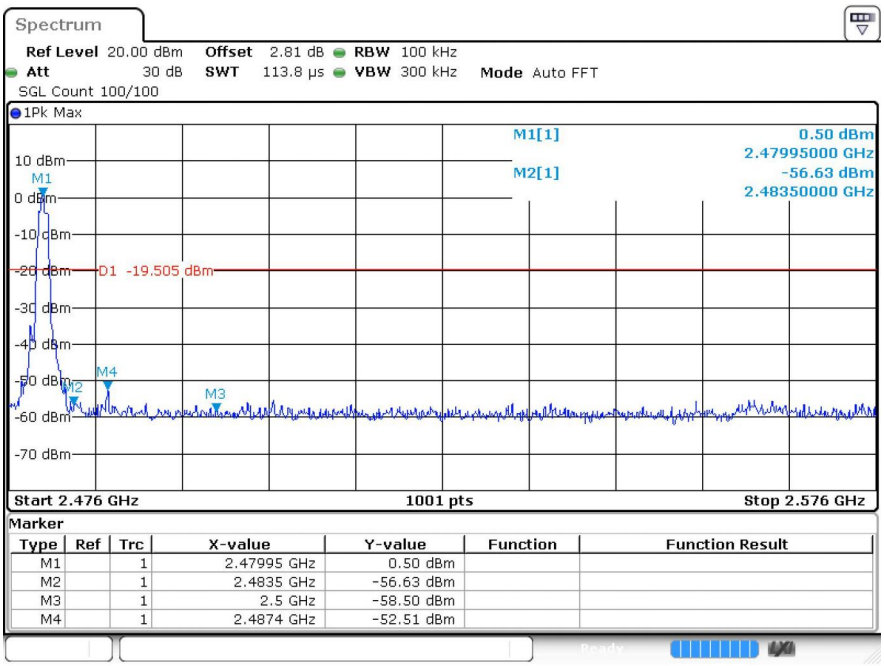
Ref	
π/4DQPSK/LCH/Hop	

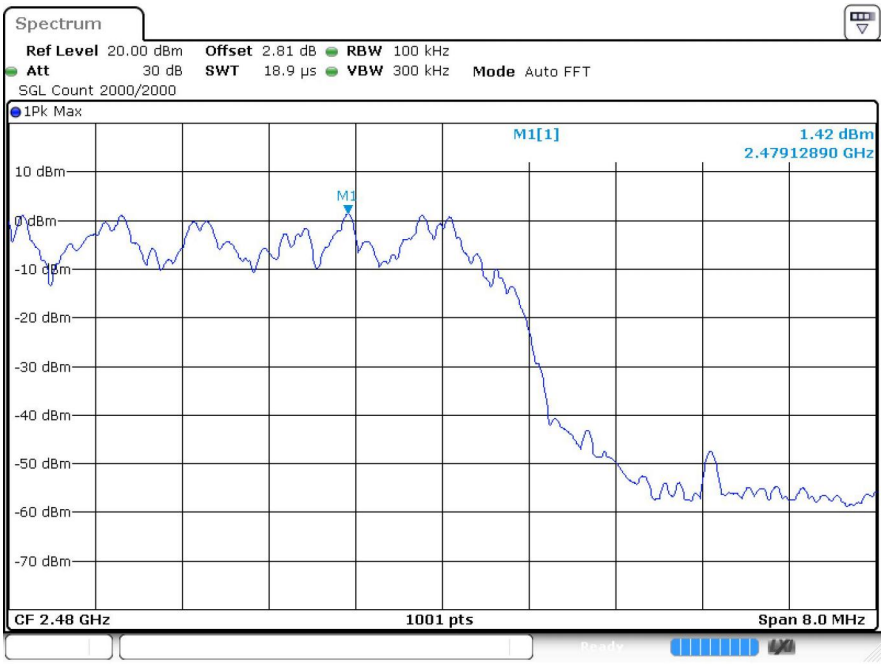
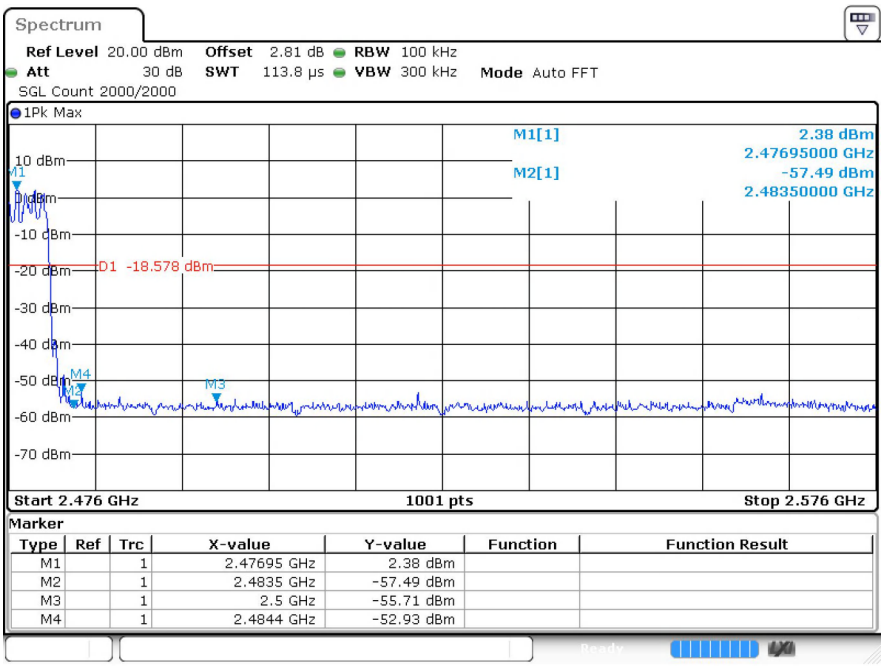
Ref	
π/4DQPSK/HCH/No Hop	

Ref	
π/4DQPSK/HCH/Hop	

Ref	
8DPSK/LCH/No Hop	

Ref	
8DPSK/LCH/Hop	

Ref	
8DPSK/HCH/No Hop	

Ref	
8DPSK/HCH/Hop	

9 Restrict-band band-edge measurements

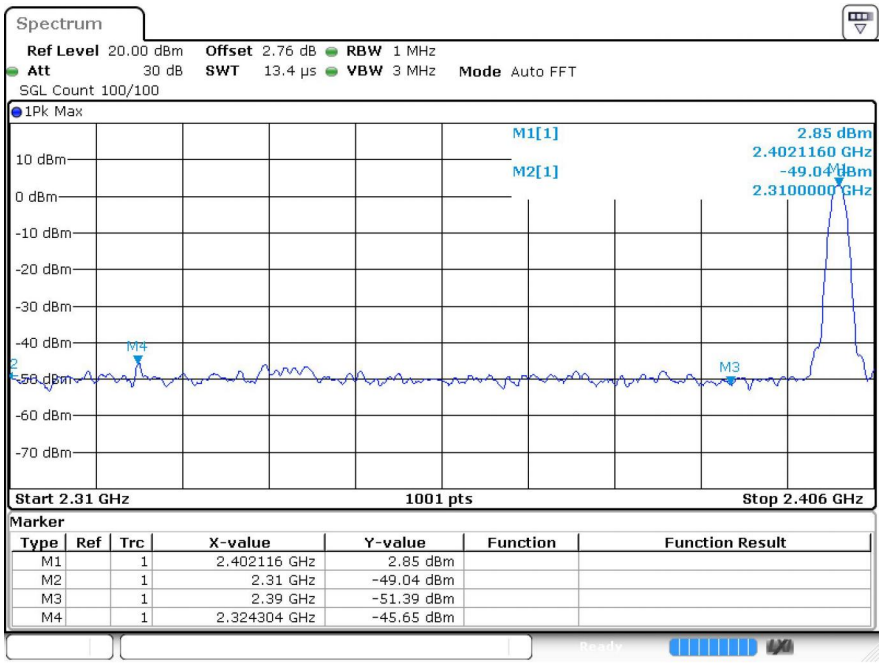
9.1 Test Result

Test Mode	Hopping	Freq.	Power [dBm]	Gain	Duty Factor	E [dBuV/m]	Detector	Limit [dBuV/m]	Verdict
GFSK	Off	2310.0	-49.04	3.3	-	49.49	PEAK	74	Pass
	Off	2310.0	-56.69	3.3	5.06	46.9	AV	54	Pass
	Off	2324.304	-45.64	3.3	-	52.89	PEAK	74	Pass
	Off	2338.032	-54.5	3.3	5.06	49.09	AV	54	Pass
	Off	2390.0	-51.39	3.3	-	47.14	PEAK	74	Pass
	Off	2390.0	-56.88	3.3	5.06	46.71	AV	54	Pass
	Off	2483.5	-47.43	3.3	-	51.1	PEAK	74	Pass
	Off	2483.5	-56.51	3.3	5.06	47.08	AV	54	Pass
	Off	2494.72	-46.76	3.3	-	51.77	PEAK	74	Pass
	Off	2498.752	-55.31	3.3	5.06	48.28	AV	54	Pass
	Off	2500.0	-49	3.3	-	49.53	PEAK	74	Pass
	Off	2500.0	-56.35	3.3	5.06	47.24	AV	54	Pass
π/4DQPSK	Off	2310.0	-51.07	3.3	-	47.46	PEAK	74	Pass
	Off	2310.0	-56.25	3.3	4.9	47.18	AV	54	Pass
	Off	2343.024	-46.89	3.3	-	51.64	PEAK	74	Pass
	Off	2339.568	-54.1	3.3	4.9	49.33	AV	54	Pass
	Off	2390.0	-49.91	3.3	-	48.62	PEAK	74	Pass
	Off	2390.0	-57.04	3.3	4.9	46.39	AV	54	Pass
	Off	2483.5	-48.91	3.3	-	49.62	PEAK	74	Pass
	Off	2483.5	-56.34	3.3	4.95	47.14	AV	54	Pass
	Off	2487.448	-45.33	3.3	-	53.2	PEAK	74	Pass
	Off	2484.568	-55.79	3.3	4.95	47.69	AV	54	Pass
	Off	2500.0	-46.88	3.3	-	51.65	PEAK	74	Pass
	Off	2500.0	-56.48	3.3	4.95	47	AV	54	Pass
8DPSK	Off	2310.0	-50.2	3.3	-	48.33	PEAK	74	Pass
	Off	2310.0	-56.6	3.3	4.95	46.88	AV	54	Pass
	Off	2339.568	-45.48	3.3	-	53.05	PEAK	74	Pass
	Off	2338.32	-53.89	3.3	4.95	49.59	AV	54	Pass

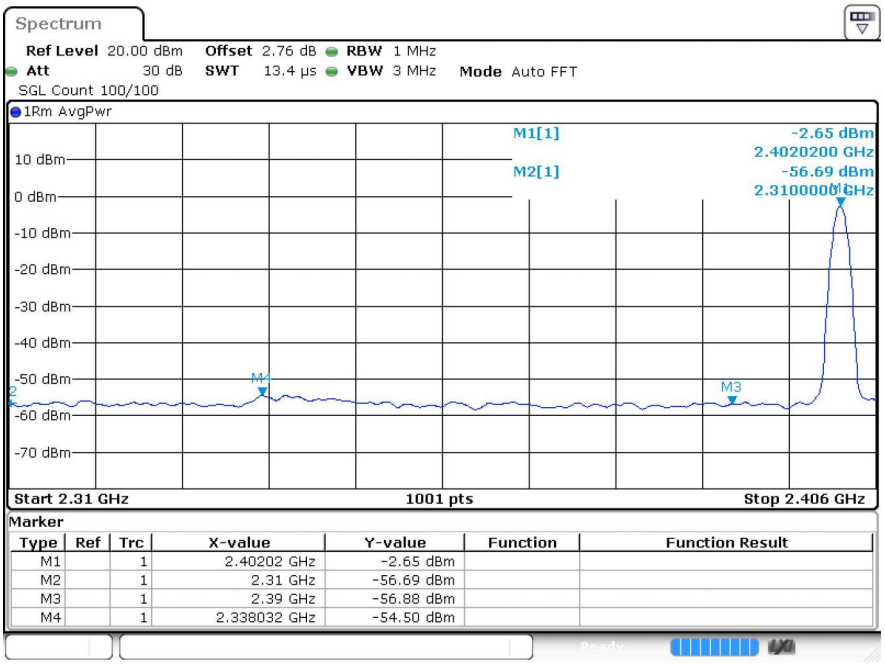
	Off	2390.0	-50.91	3.3	-	47.62	PEAK	74	Pass
	Off	2390.0	-57.18	3.3	4.95	46.3	AV	54	Pass
	Off	2483.5	-42.92	3.3	-	55.61	PEAK	74	Pass
	Off	2483.5	-55.87	3.3	4.95	47.61	AV	54	Pass
	Off	2487.424	-42.81	3.3	-	55.72	PEAK	74	Pass
	Off	2484.424	-55.72	3.3	4.95	47.76	AV	54	Pass
	Off	2500.0	-49.64	3.3	-	48.89	PEAK	74	Pass
	Off	2500.0	-55.89	3.3	4.95	47.59	AV	54	Pass

9.2 Test Graphs

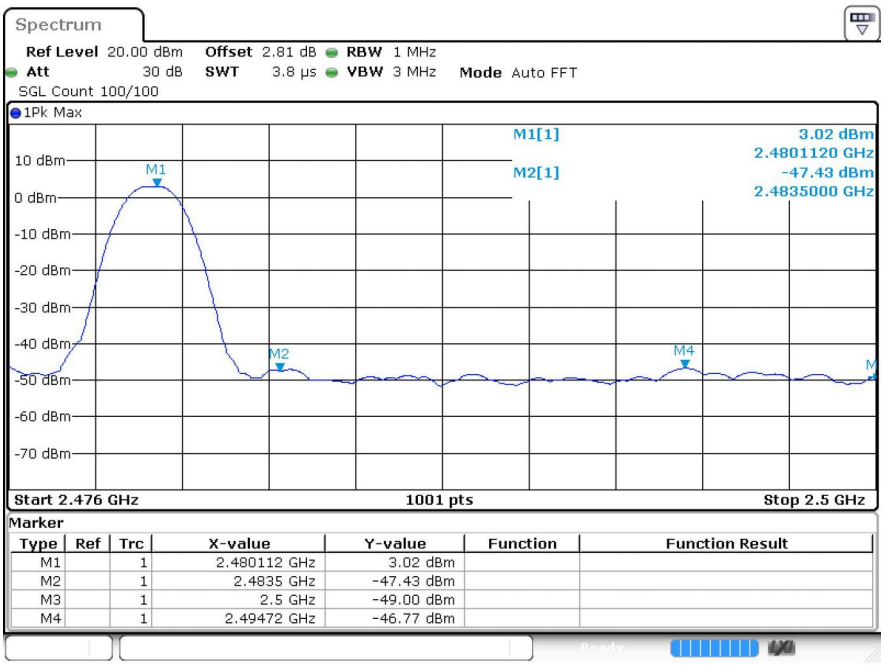
Restrict-band band-edge measurements_Hopping Off_ GFSK_PEAK (Low Channel)



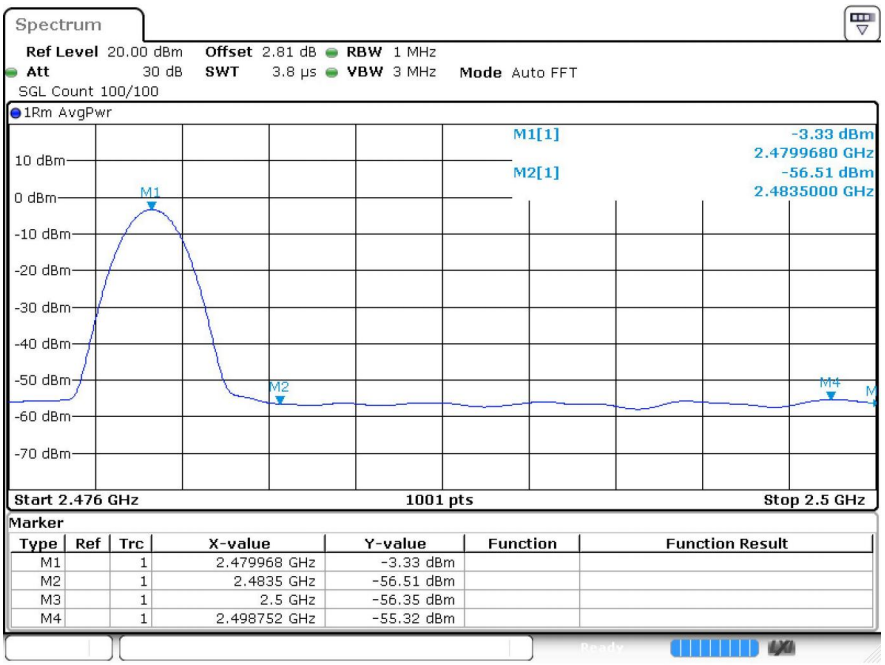
Restrict-band band-edge measurements_Hopping Off_ GFSK_Average (Low Channel)



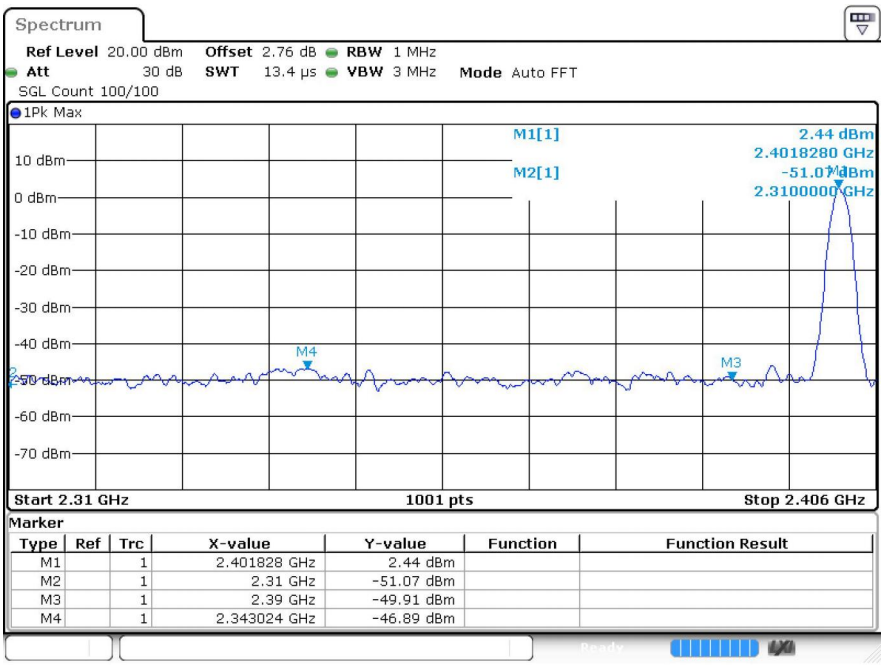
Restrict-band band-edge measurements_Hopping Off_ GFSK_PEAK (High Channel)



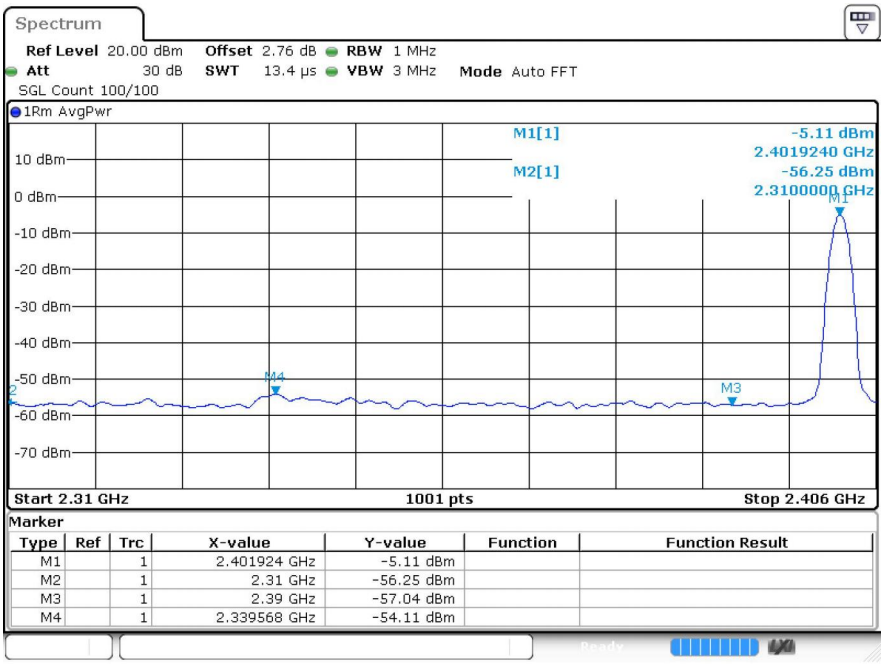
Restrict-band band-edge measurements_Hopping Off_ GFSK_Average (High Channel)



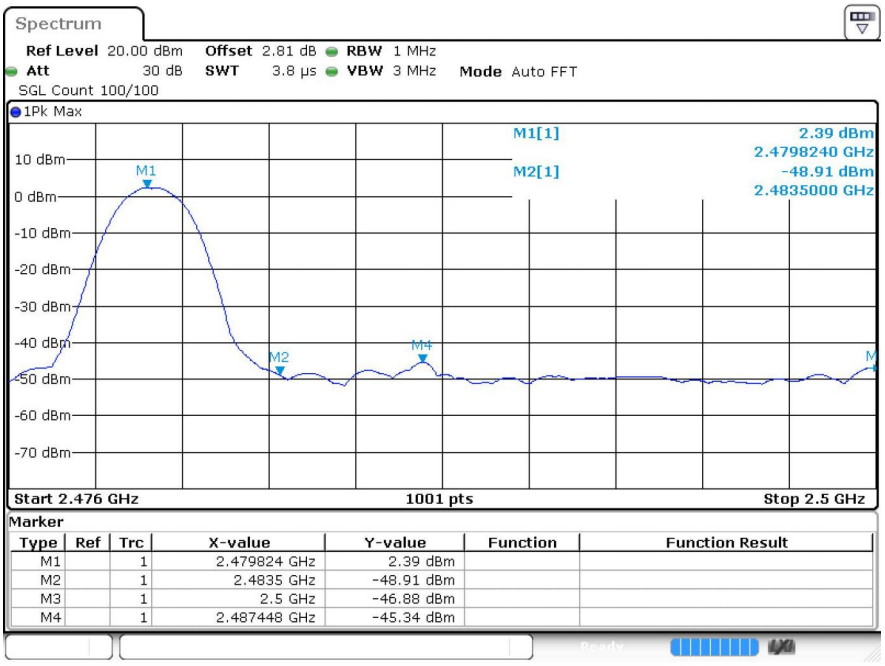
Restrict-band band-edge measurements_Hopping Off_π/4-DQPSK_PEAK (Low Channel)



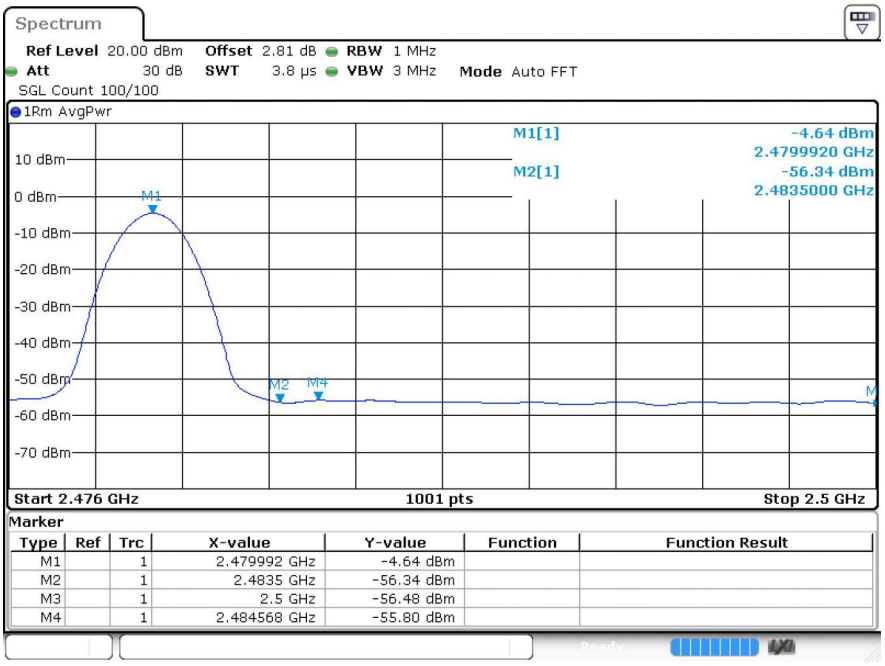
Restrict-band band-edge measurements_Hopping Off_π/4-DQPSK_Average (Low Channel)



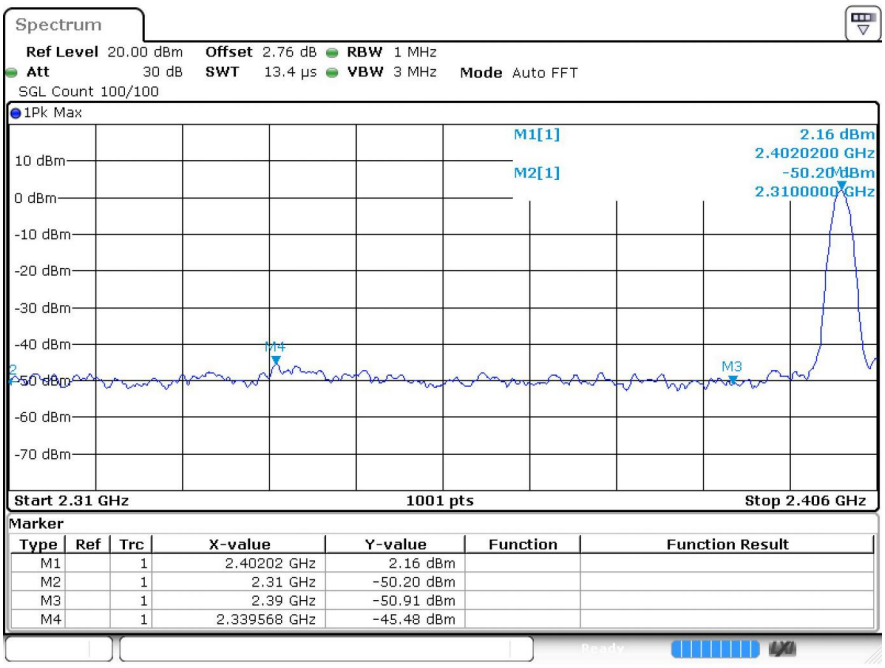
Restrict-band band-edge measurements_Hopping Off_π/4-DQPSK_PEAK (High Channel)



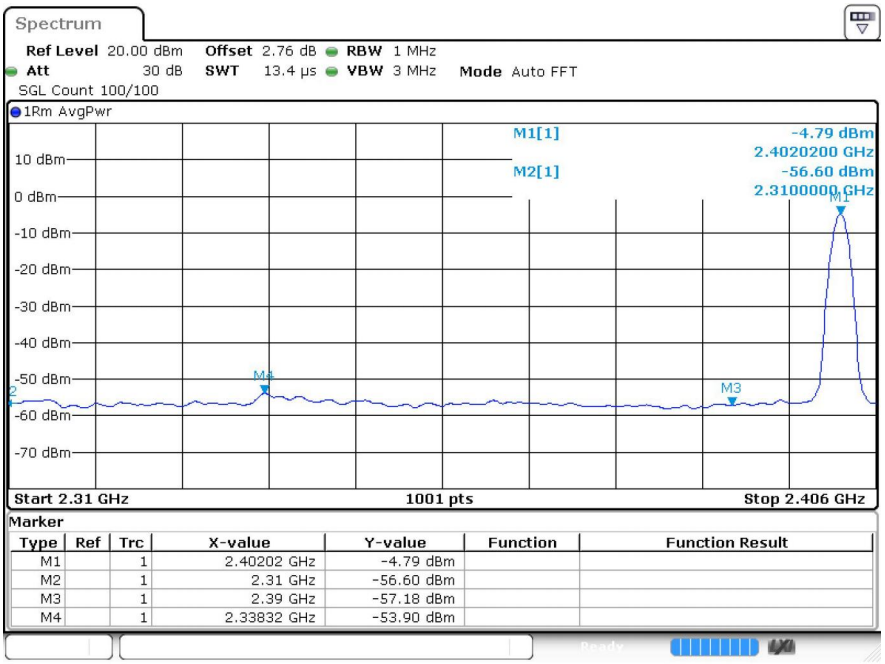
Restrict-band band-edge measurements_Hopping Off_π/4-DQPSK_Average (High Channel)



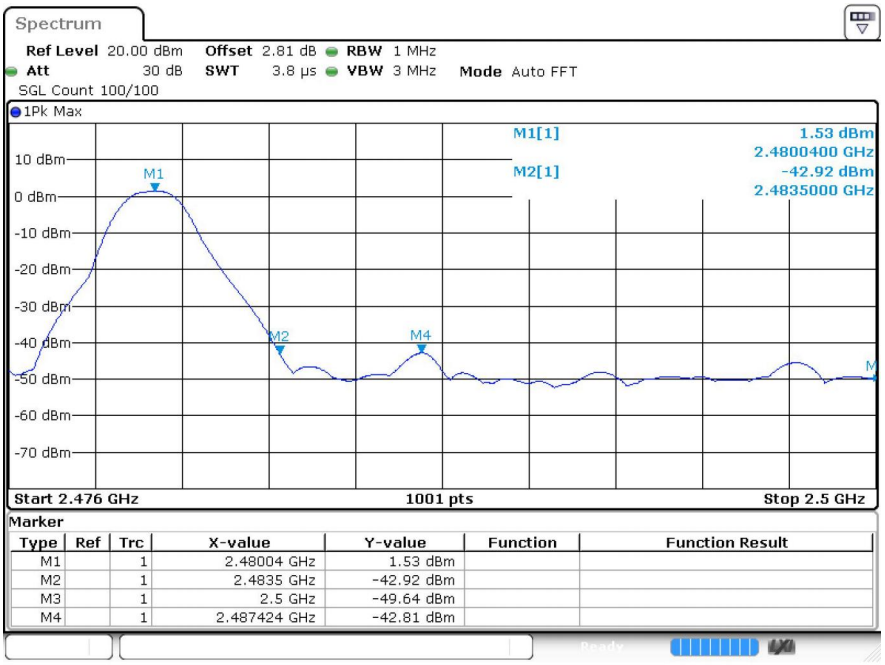
Restrict-band band-edge measurements_Hopping Off_8DPSK_PEAK (Low Channel)



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



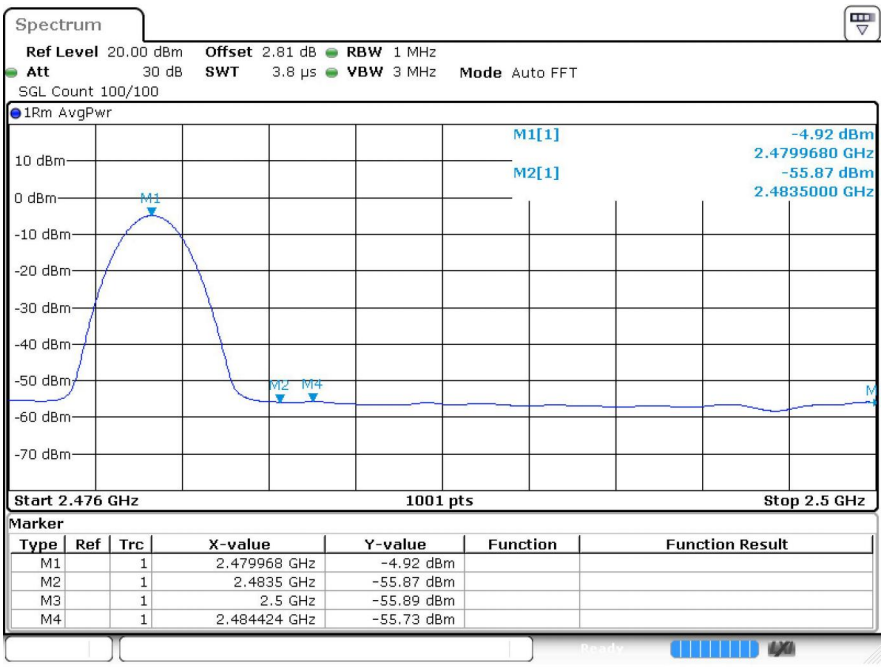
Restrict-band band-edge measurements_Hopping Off_8DPSK_PEAK (High Channel)



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.48004 GHz	1.53 dBm		
M2		1	2.4835 GHz	-42.92 dBm		
M3		1	2.5 GHz	-49.64 dBm		
M4		1	2.487424 GHz	-42.81 dBm		

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



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.479968 GHz	-4.92 dBm		
M2		1	2.4835 GHz	-55.87 dBm		
M3		1	2.5 GHz	-55.89 dBm		
M4		1	2.484424 GHz	-55.73 dBm		

---The End---