Appendix A

RF Test Data for BT V4.0 (BDR/EDR) (Conducted Measurement)

Product Name: TABLET PC

Trade Mark: FUSION5

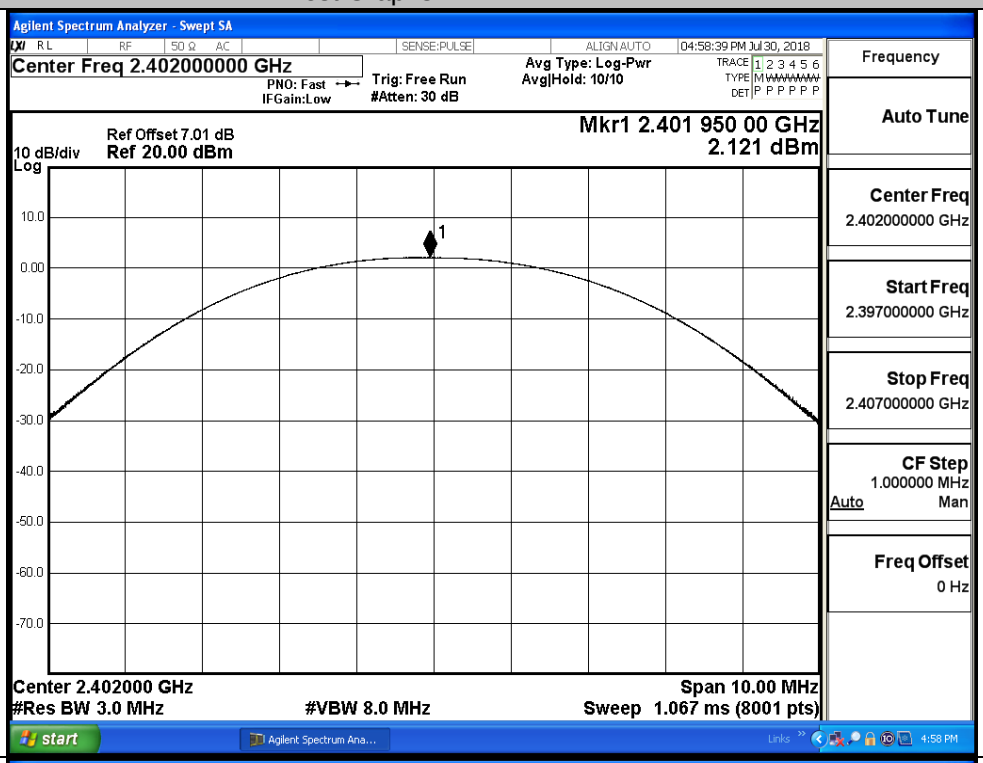
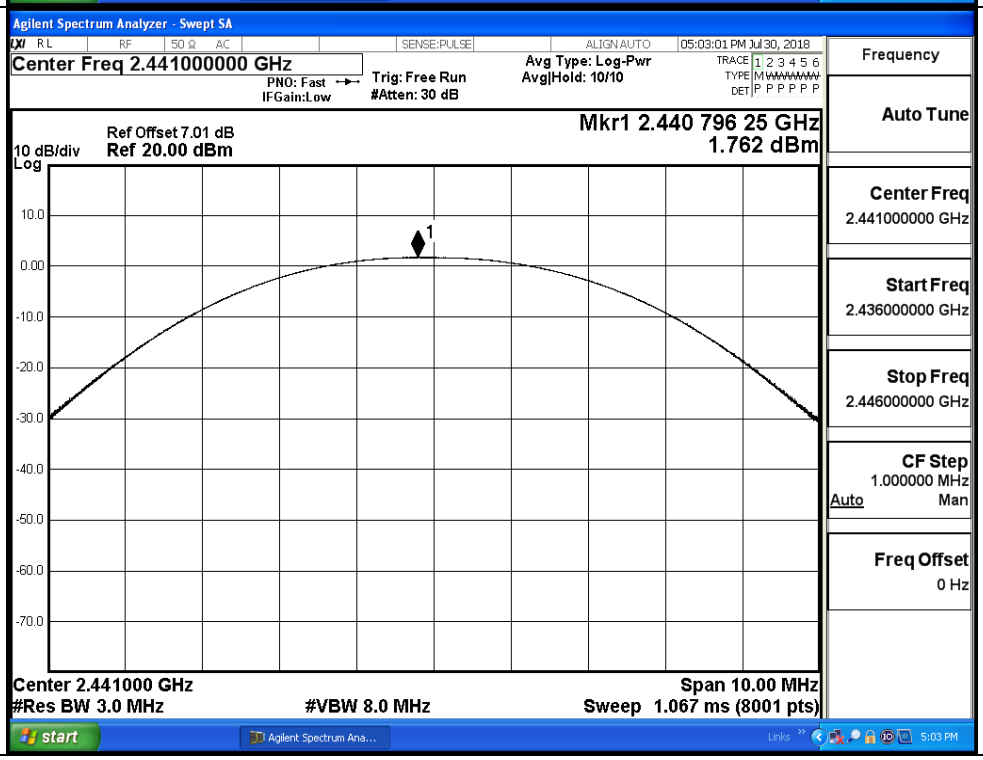
Test Model: TABLETT60

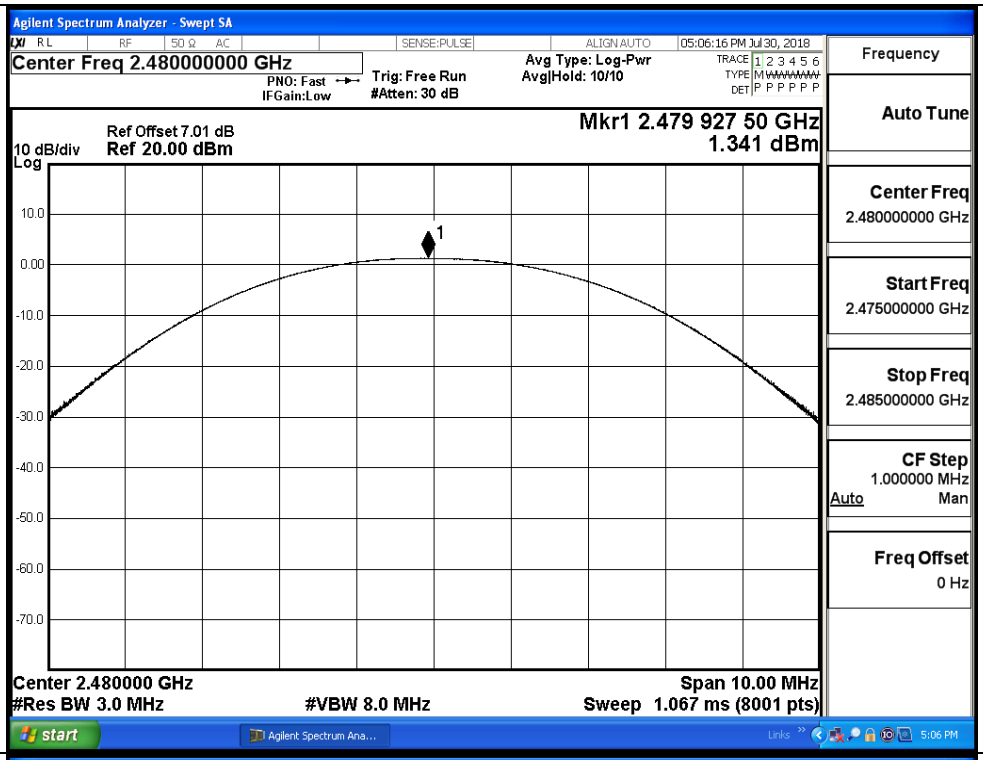
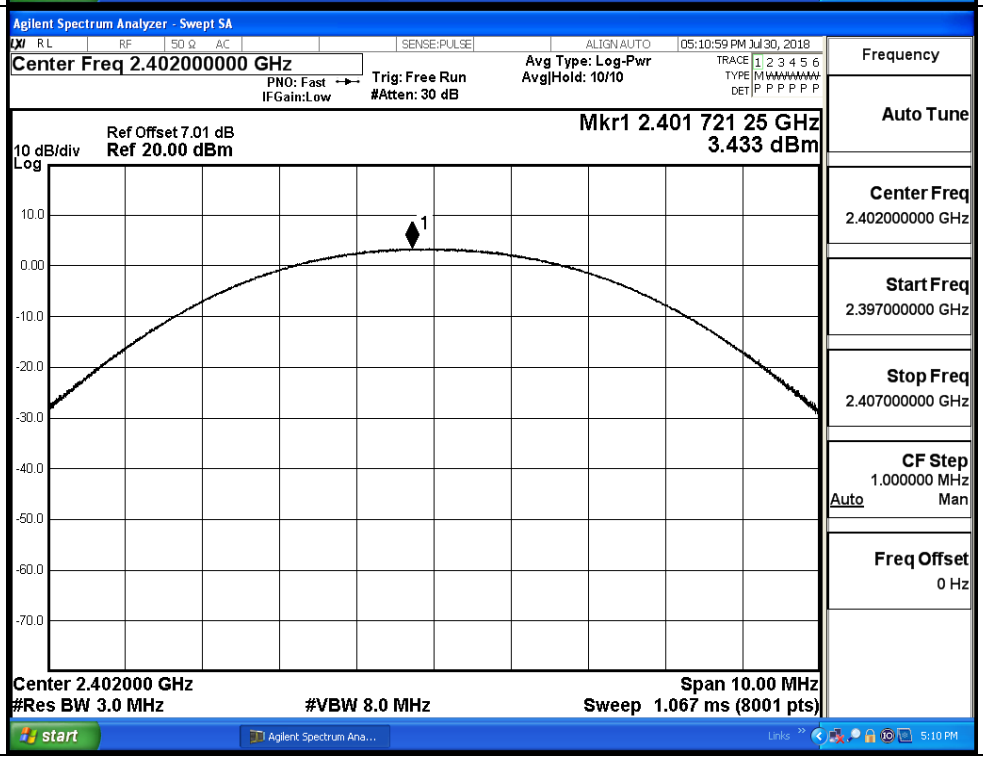
Environmental Conditions

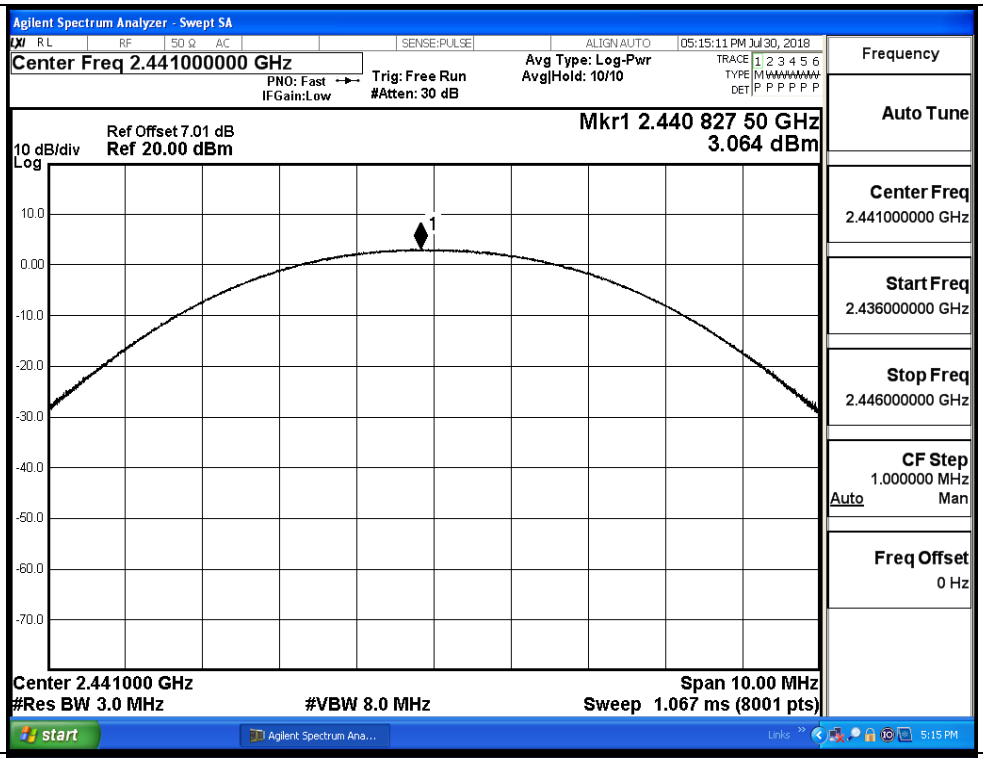
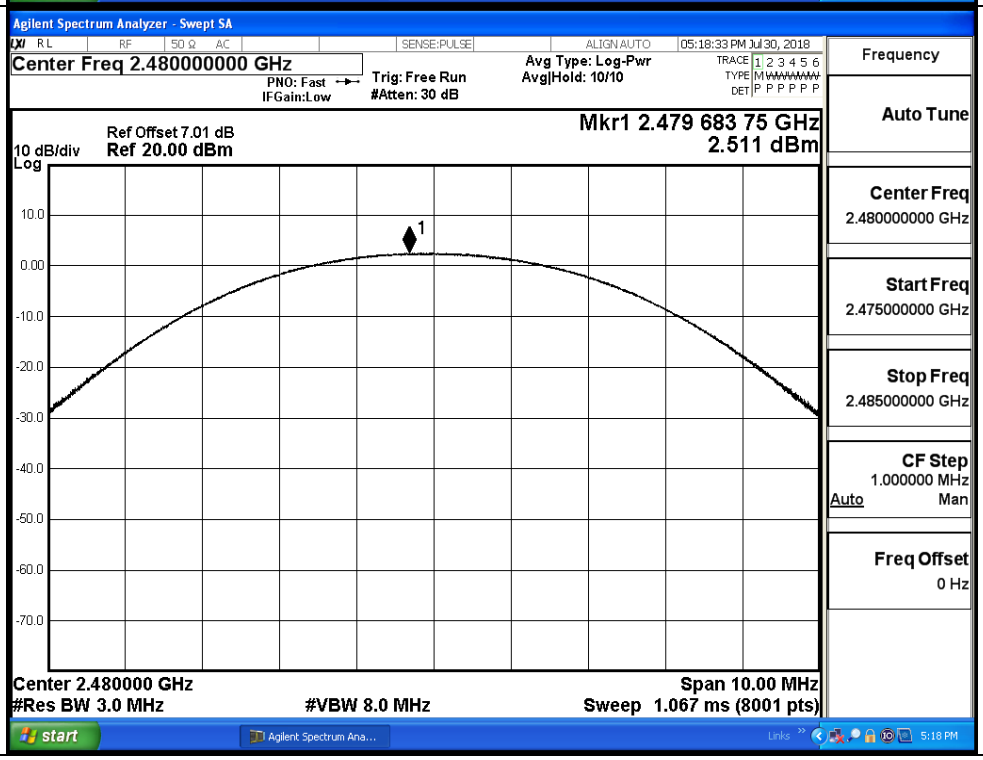
Temperature:	22.2 ° C
Relative Humidity:	54.1%
ATM Pressure:	100.0 kPa
Test Engineer:	Diamond.Lu
Supervised by:	Jayden.Zhuo

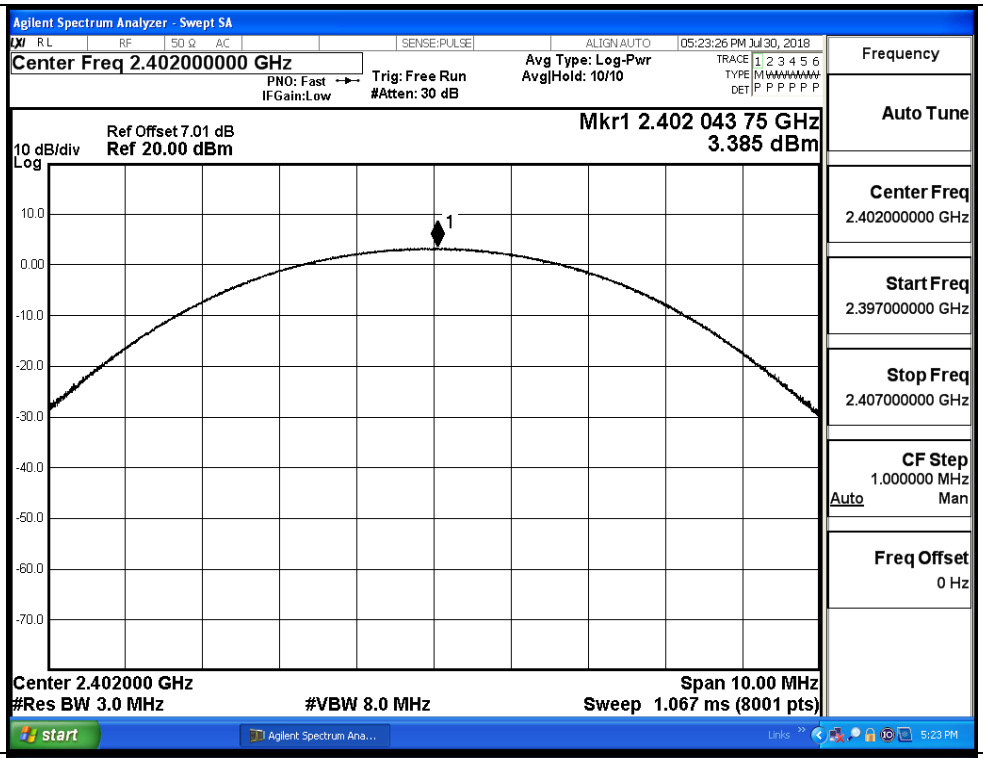
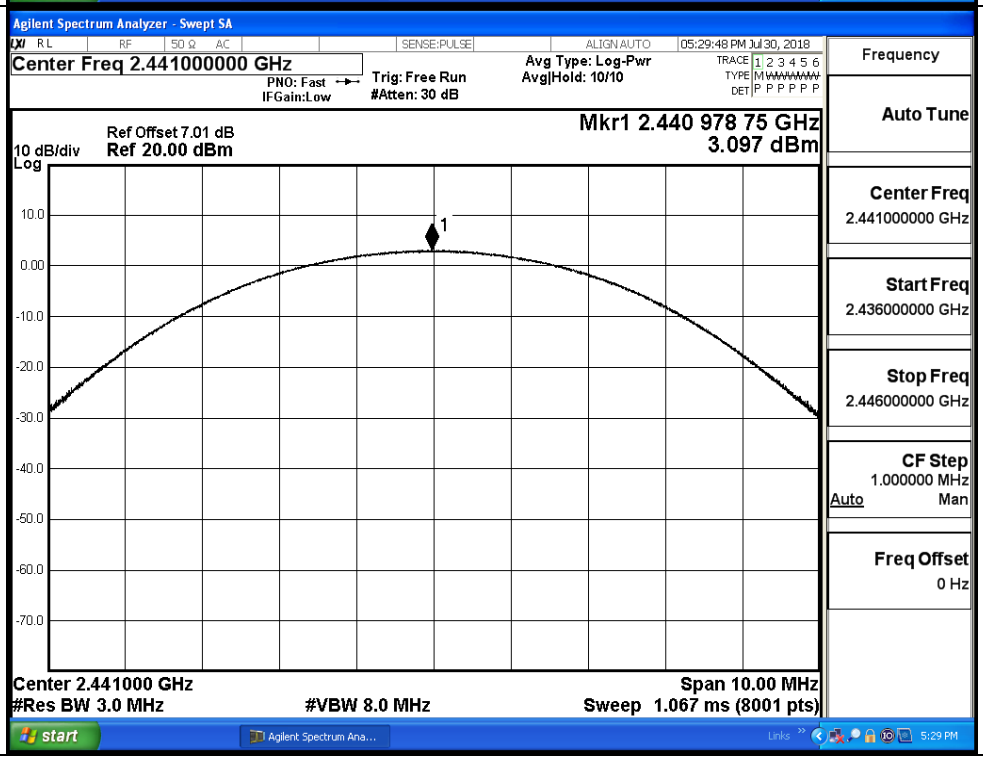
A.1 Maximum Conducted Peak Output Power

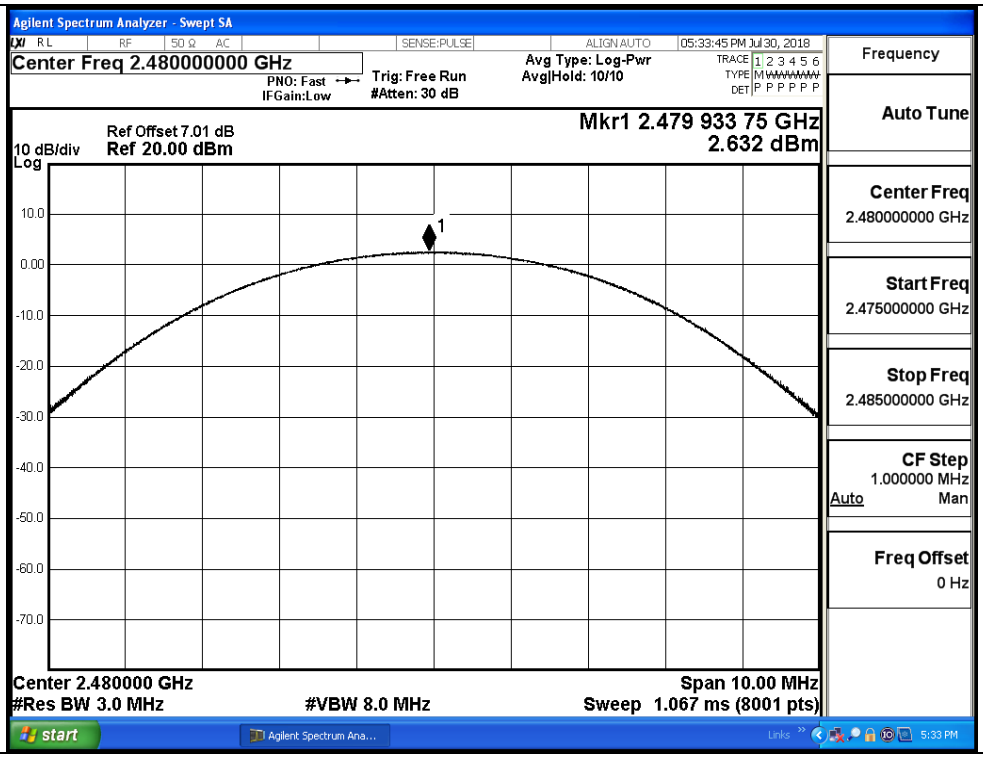
Mode	Channel.	Maximum Peak Output Power [dBm]	Limit [dBm]	Verdict
GFSK	LCH	2.121	21	PASS
	MCH	1.762	21	PASS
	HCH	1.341	21	PASS
π/4DQPSK	LCH	3.433	21	PASS
	MCH	3.064	21	PASS
	HCH	2.511	21	PASS
8DPSK	LCH	3.385	21	PASS
	MCH	3.097	21	PASS
	HCH	2.632	21	PASS

Test Graphs	
GFSK/LCH	
GFSK/MCH	

GFSK/HCH	
π/4DQPSK/LCH	

π/4DQPSK/MCH	
π/4DQPSK/HCH	

8DPSK/LCH	
8DPSK/MCH	

8DPSK/HCH	

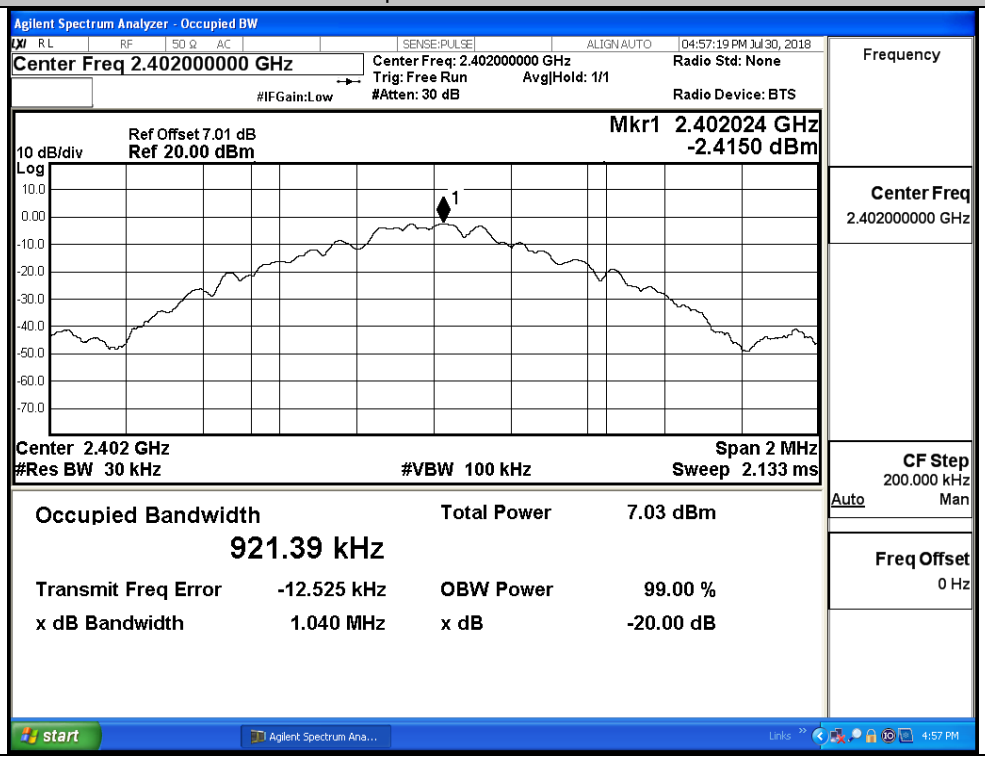
Agilent Spectrum Analyzer - Swept SA
Center Freq 2.480000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
Avg Type: Log-Pwr
Avg|Hold: 10/10
05:33:45 PM Jul 30, 2018
Ref Offset 7.01 dB
10 dB/div
Log
Ref 20.00 dBm
Mkr1 2.479 933 75 GHz
2.632 dBm
Center 2.480000 GHz
#Res BW 3.0 MHz
#VBW 8.0 MHz
Span 10.00 MHz
Sweep 1.067 ms (8001 pts)
Frequency
Auto Tune
Center Freq
2.480000000 GHz
Start Freq
2.475000000 GHz
Stop Freq
2.485000000 GHz
CF Step
1.000000 MHz
Auto
Man
Freq Offset
0 Hz
start
5:33 PM

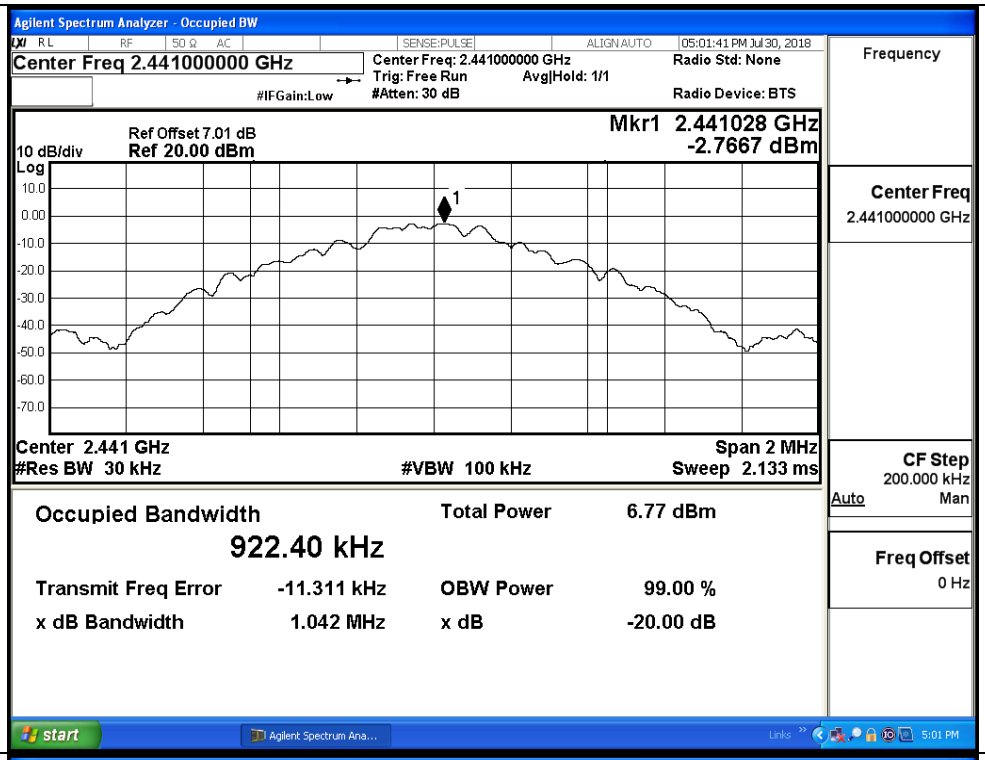
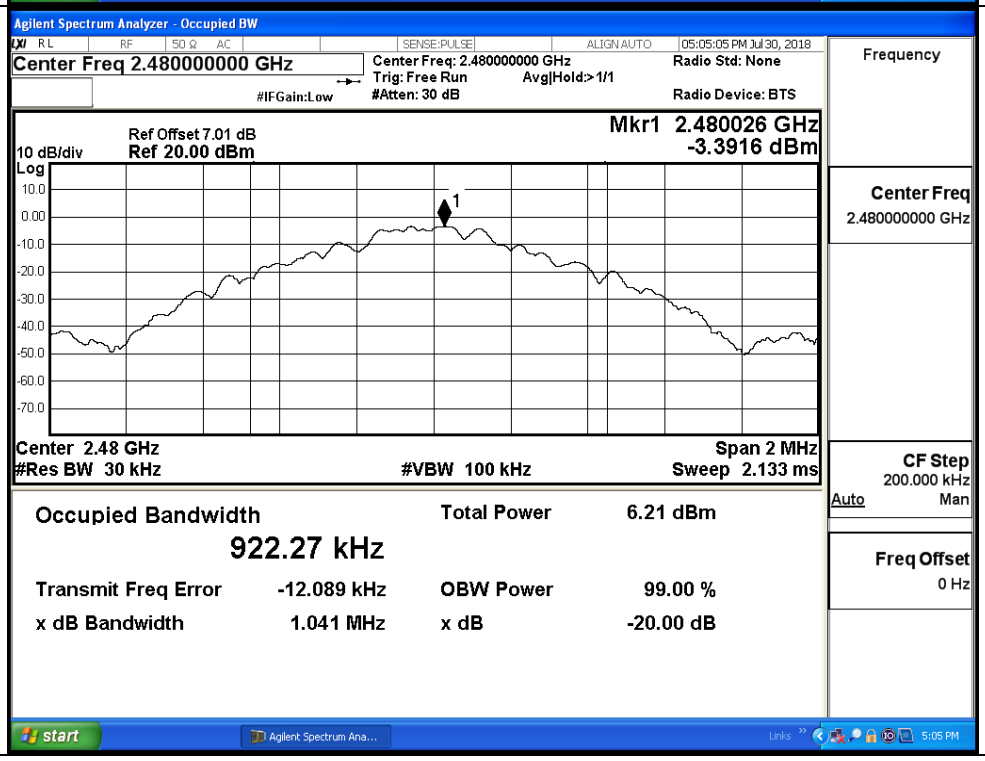
A.2 99% and 20dB Bandwidth

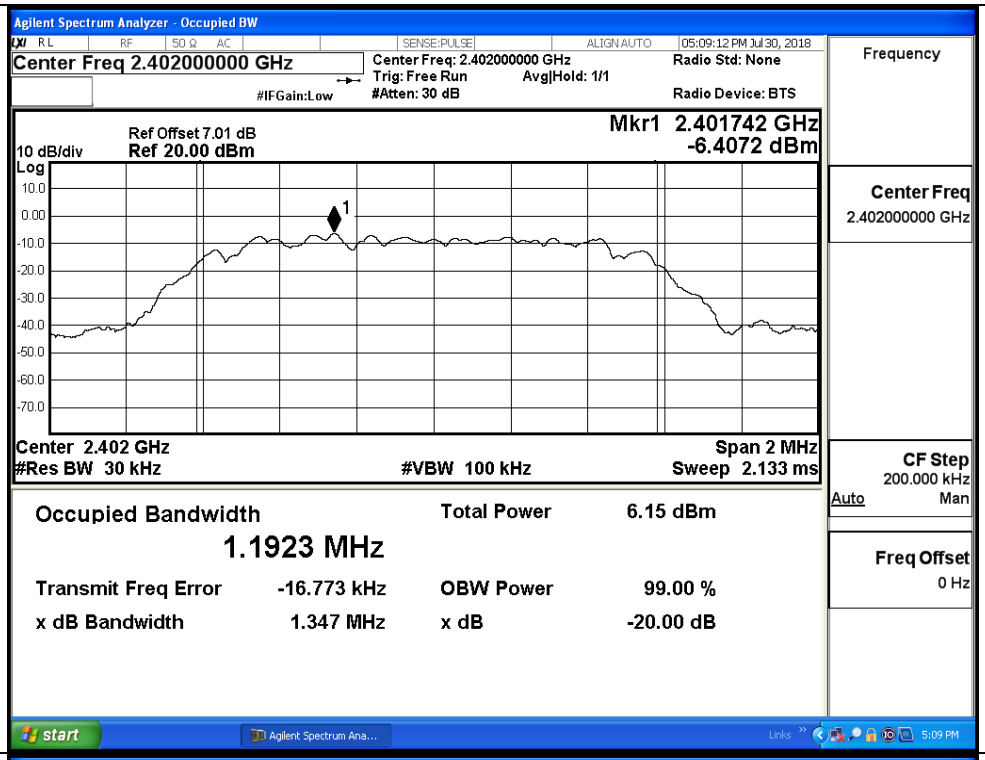
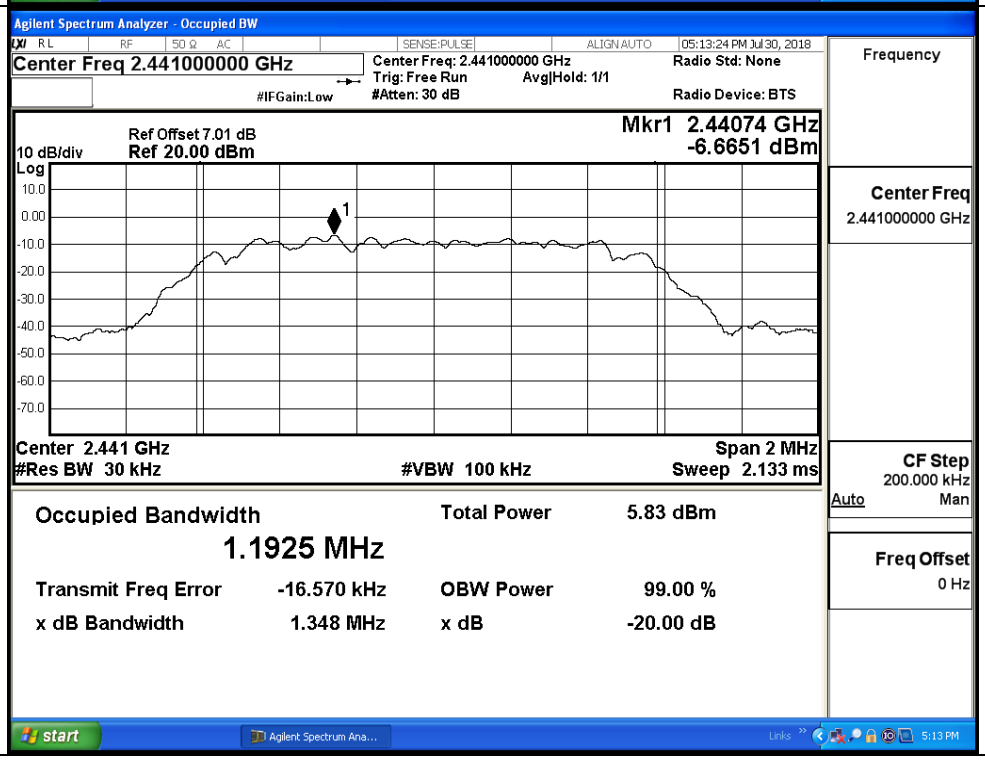
Mode	Channel.	99% Bandwidth [MHz]	20dB Bandwidth [MHz]	Limit [MHz]	Verdict
GFSK	LCH	0.92139	1.040	Not Specified	PASS
	MCH	0.92240	1.042	Not Specified	PASS
	HCH	0.92227	1.041	Not Specified	PASS
π/4DQPSK	LCH	1.1923	1.347	Not Specified	PASS
	MCH	1.1925	1.348	Not Specified	PASS
	HCH	1.1919	1.348	Not Specified	PASS
8DPSK	LCH	1.2322	1.366	Not Specified	PASS
	MCH	1.2379	1.369	Not Specified	PASS
	HCH	1.2333	1.368	Not Specified	PASS

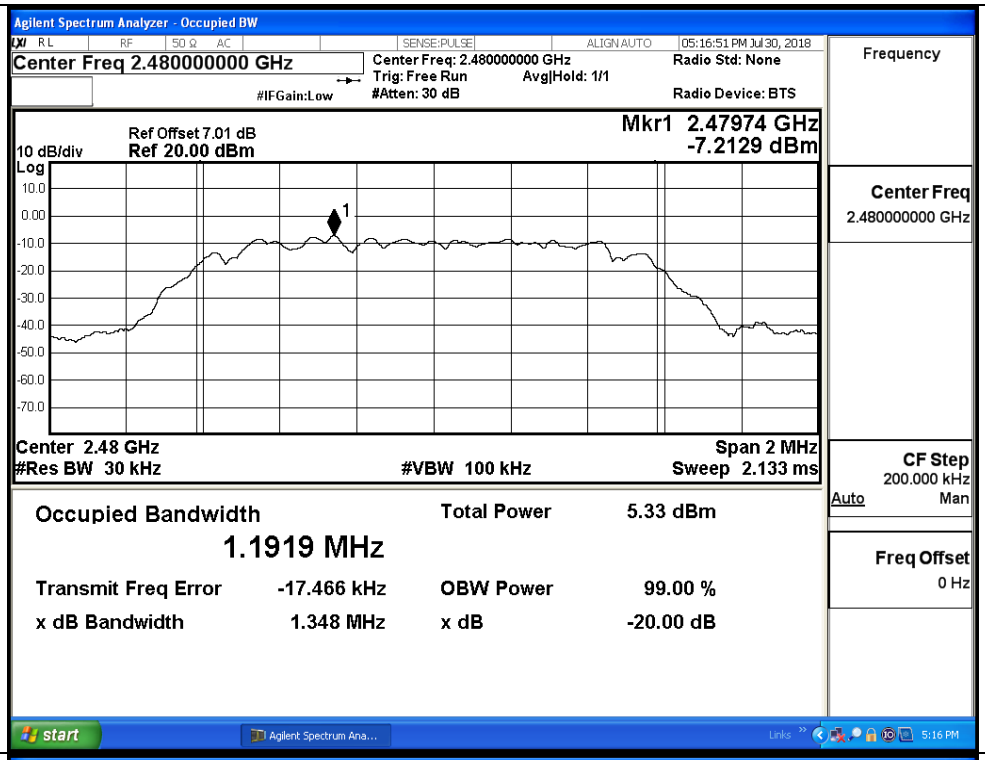
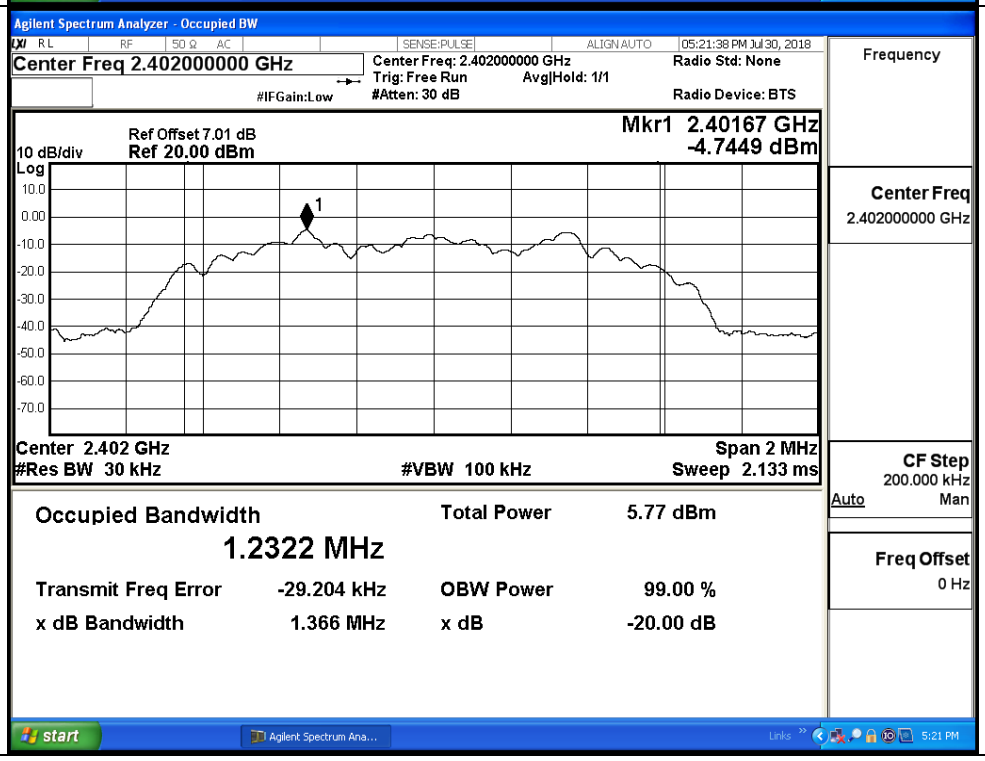
Test Graphs

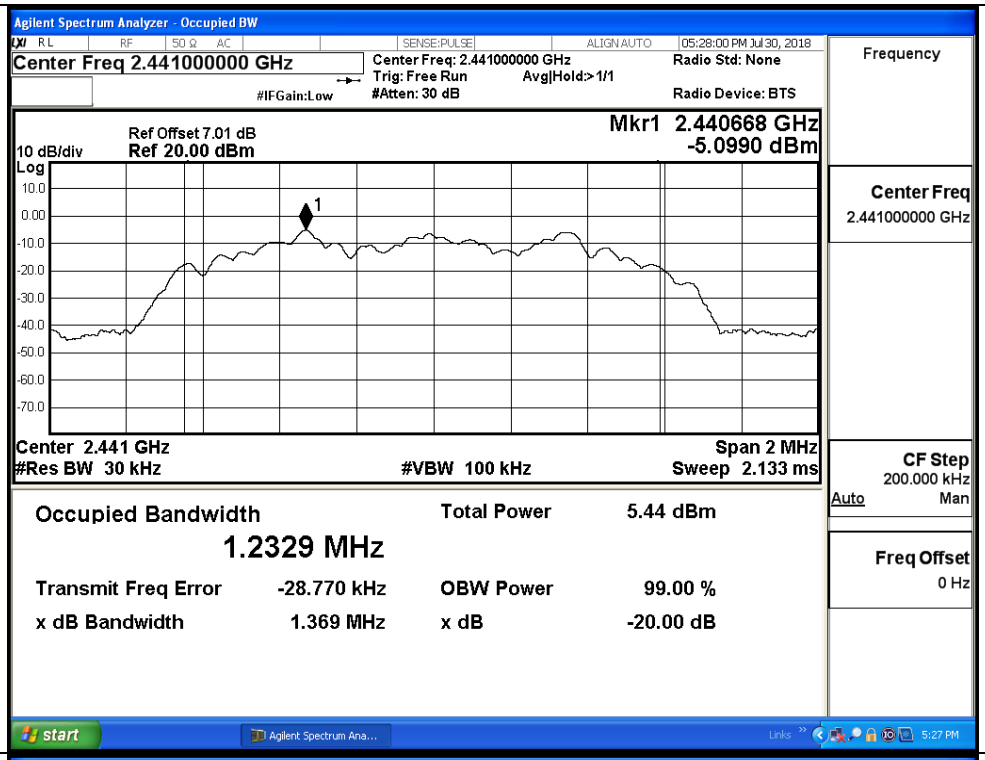
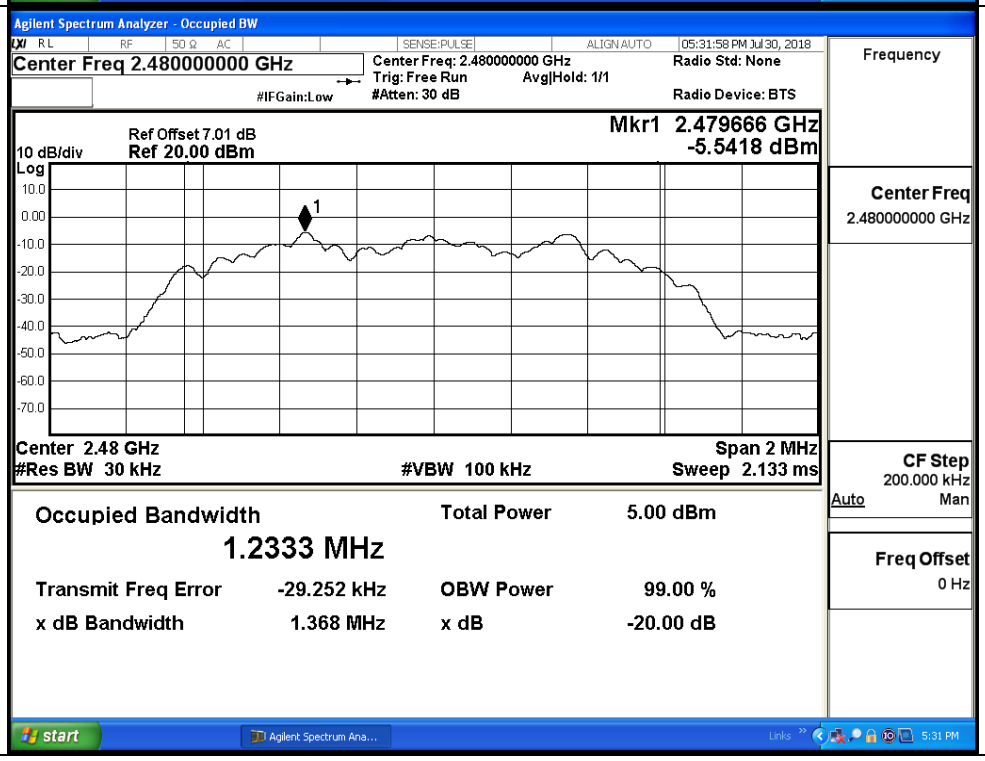
GFSK/LCH



GFSK/MCH	
GFSK/HCH	

π/4DQPSK/LCH	
π/4DQPSK/MCH	

π/4DQPSK/HCH	
8DPSK/LCH	

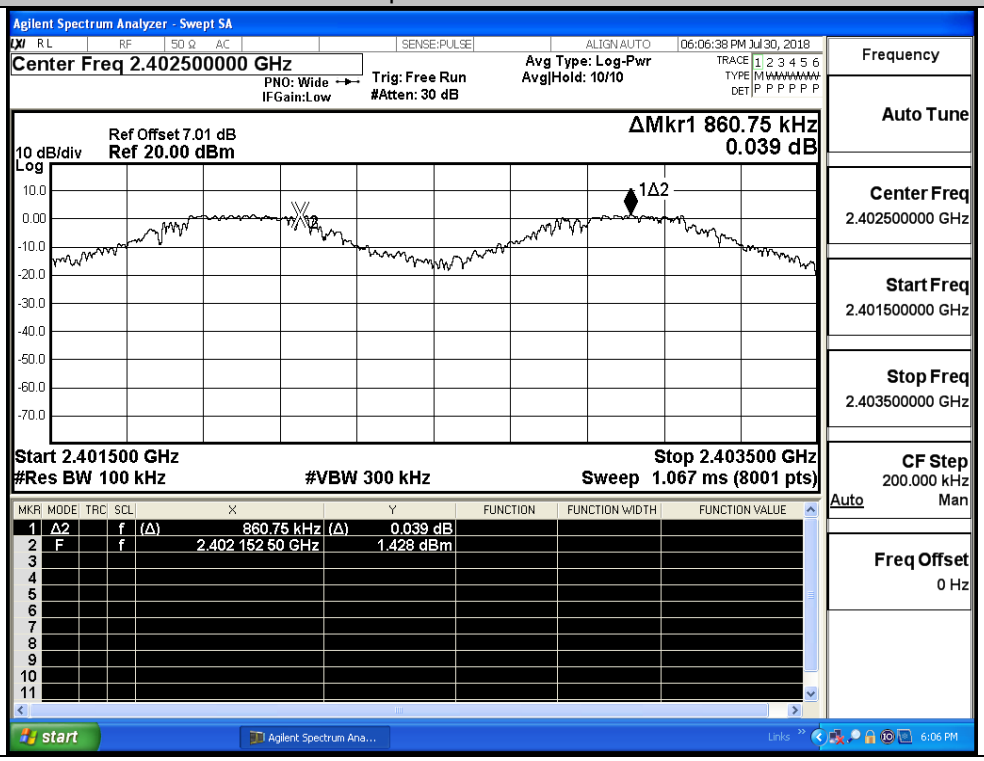
8DPSK/MCH	
8DPSK/HCH	

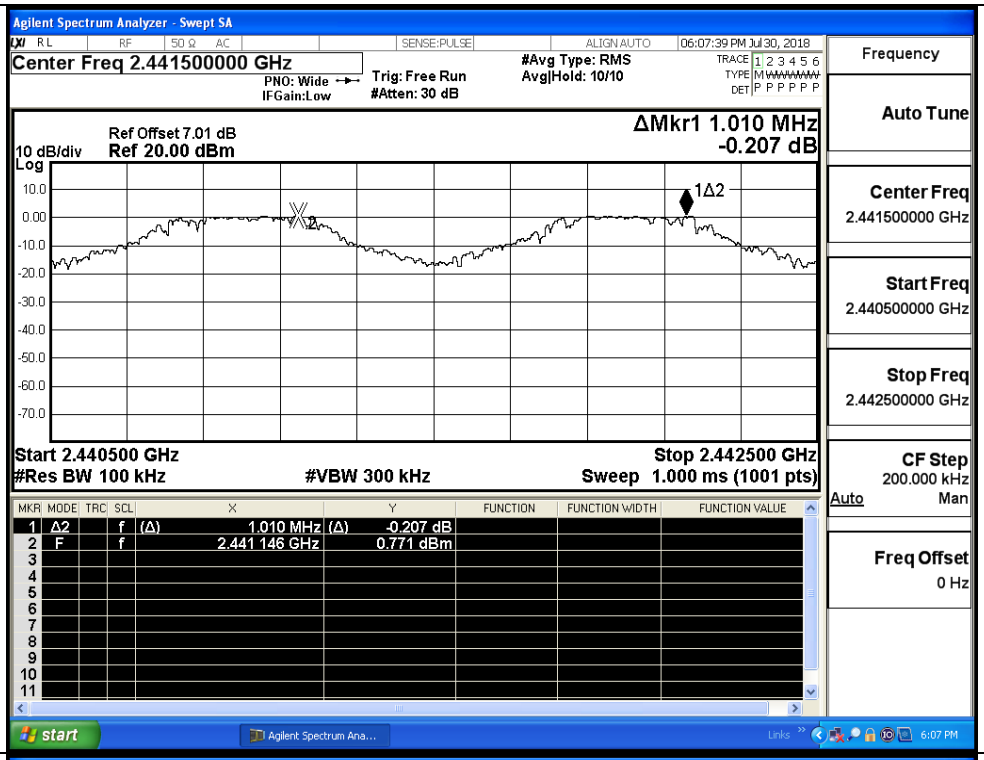
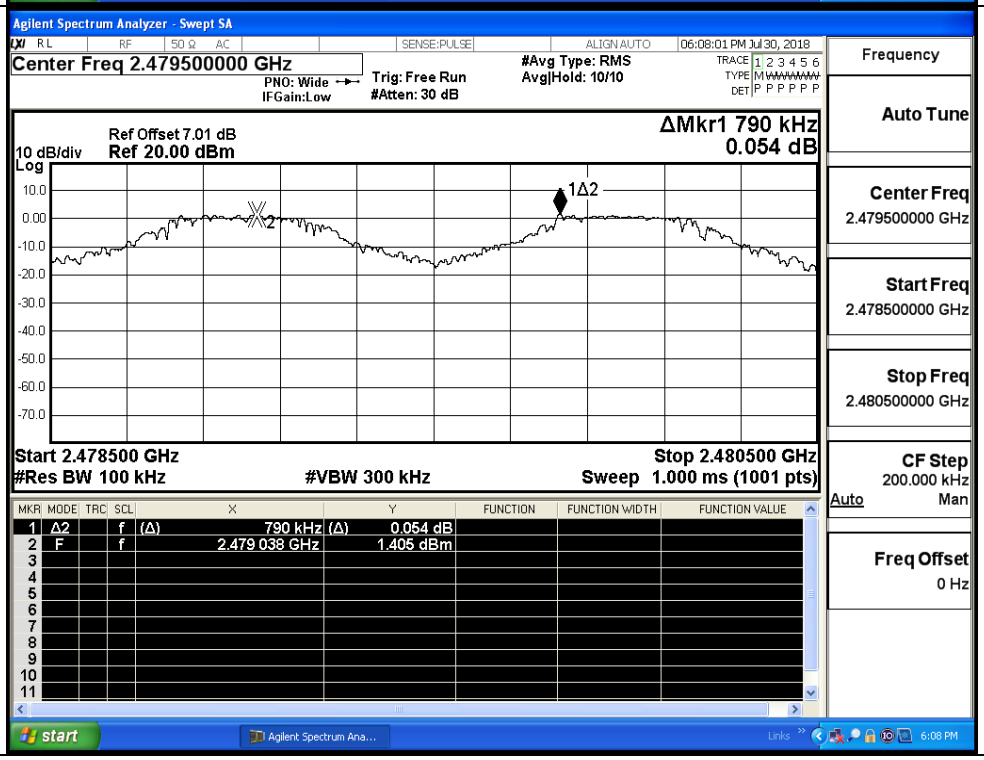
A.3 Carrier Frequency Separation

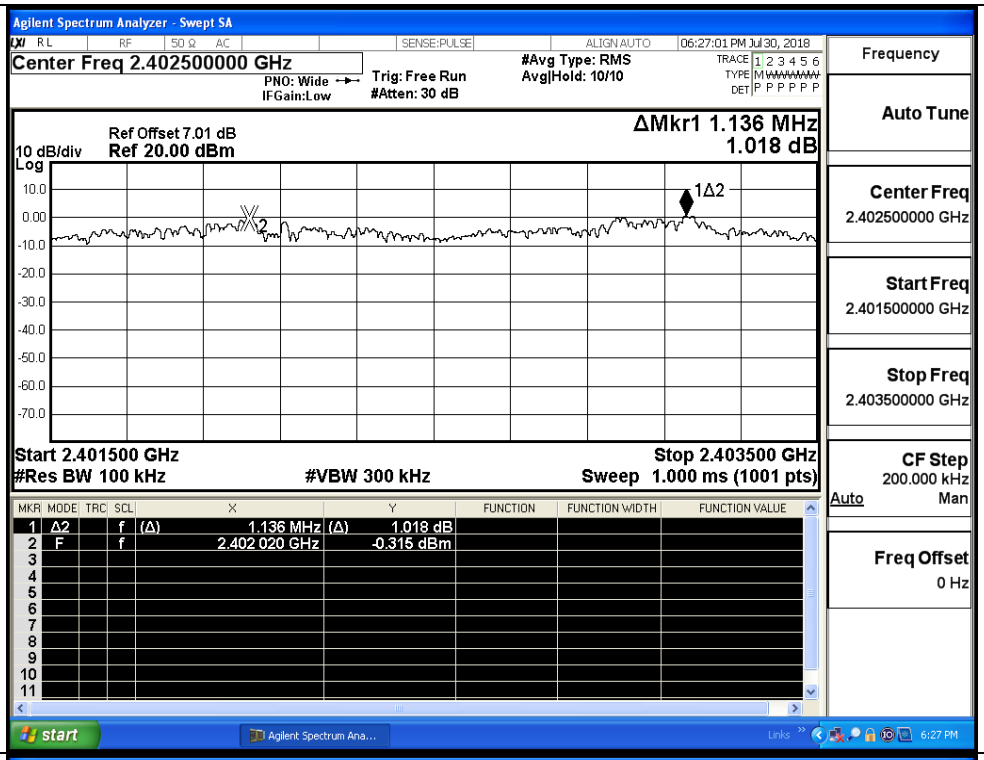
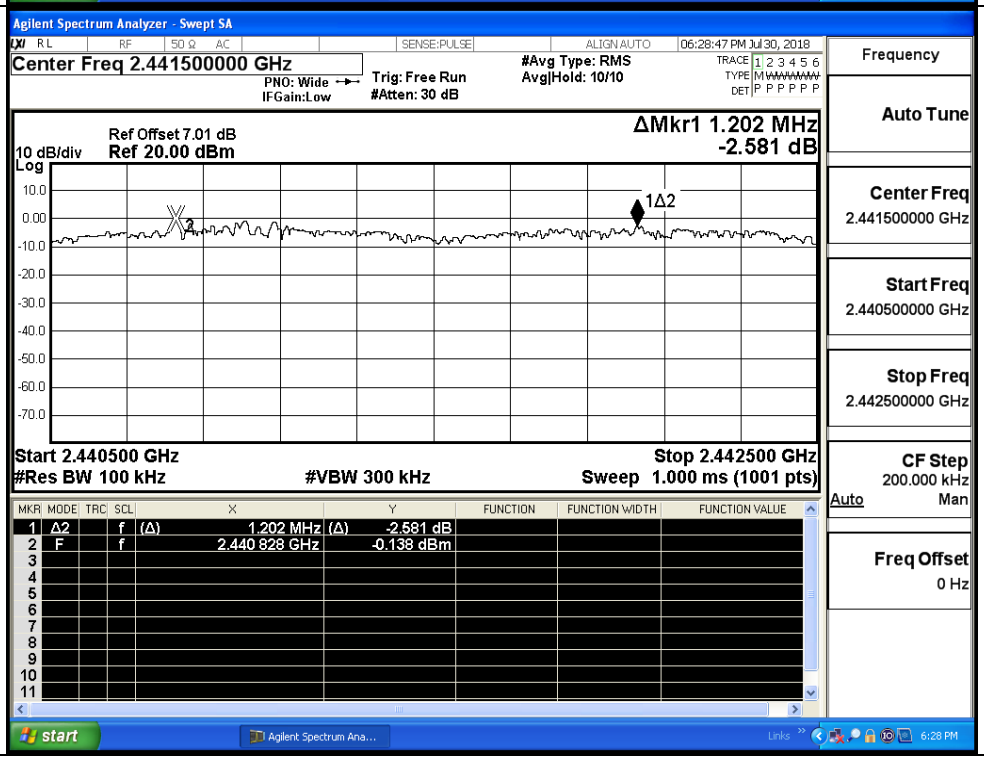
Mode	Channel.	Carrier Frequency Separation [MHz]	Limit [MHz]	Verdict
GFSK	LCH	0.861	0.695	PASS
	MCH	1.010	0.695	PASS
	HCH	0.790	0.695	PASS
π/4DQPSK	LCH	1.136	0.899	PASS
	MCH	1.202	0.899	PASS
	HCH	1.160	0.899	PASS
8DPSK	LCH	1.172	0.913	PASS
	MCH	0.920	0.913	PASS
	HCH	0.940	0.913	PASS

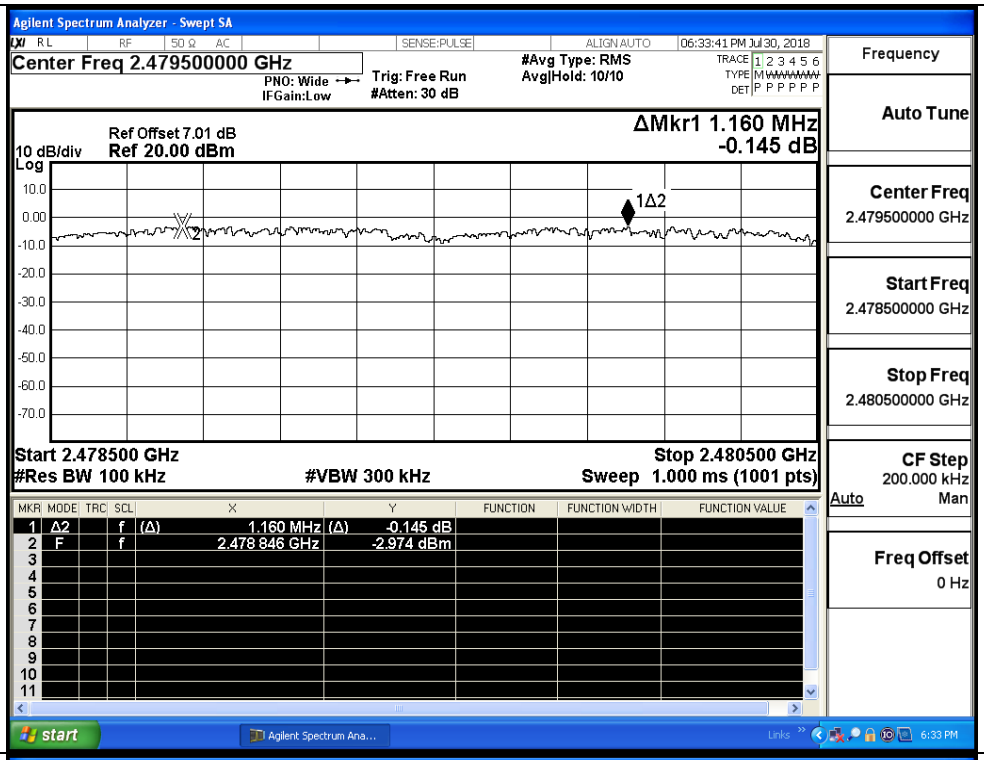
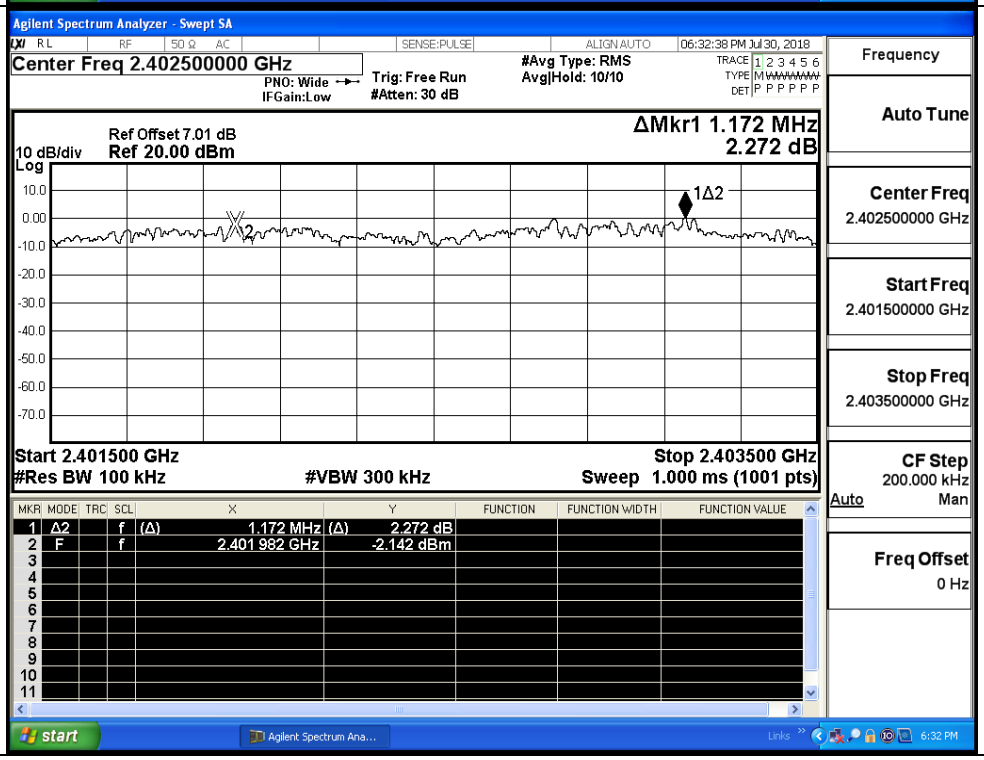
Test Graphs

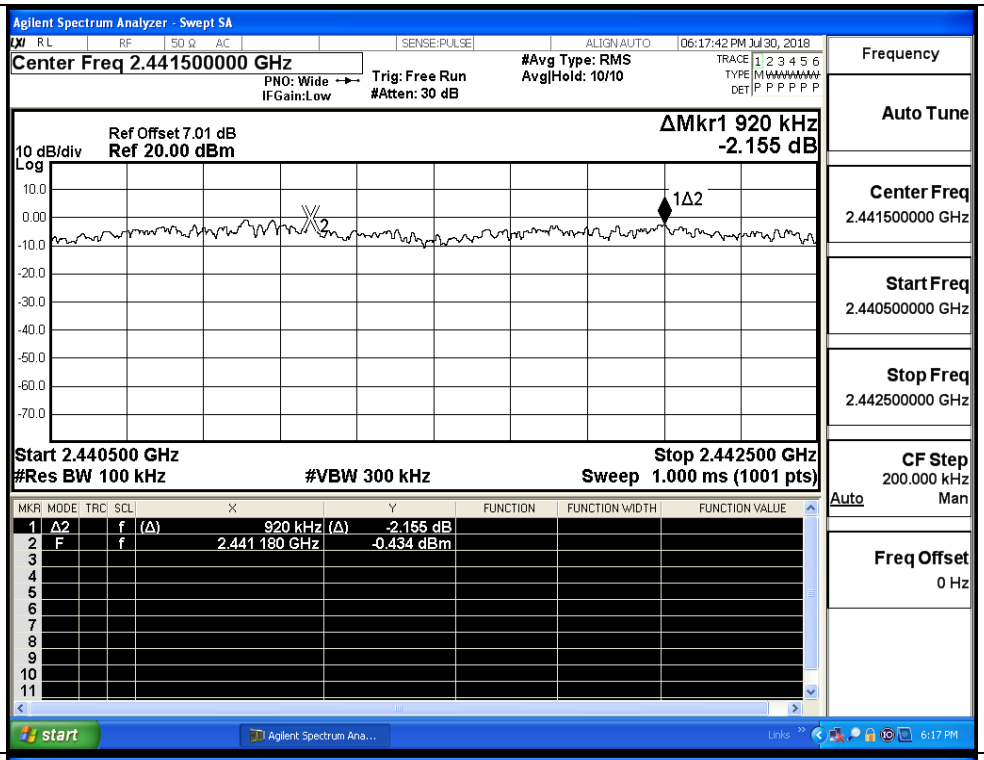
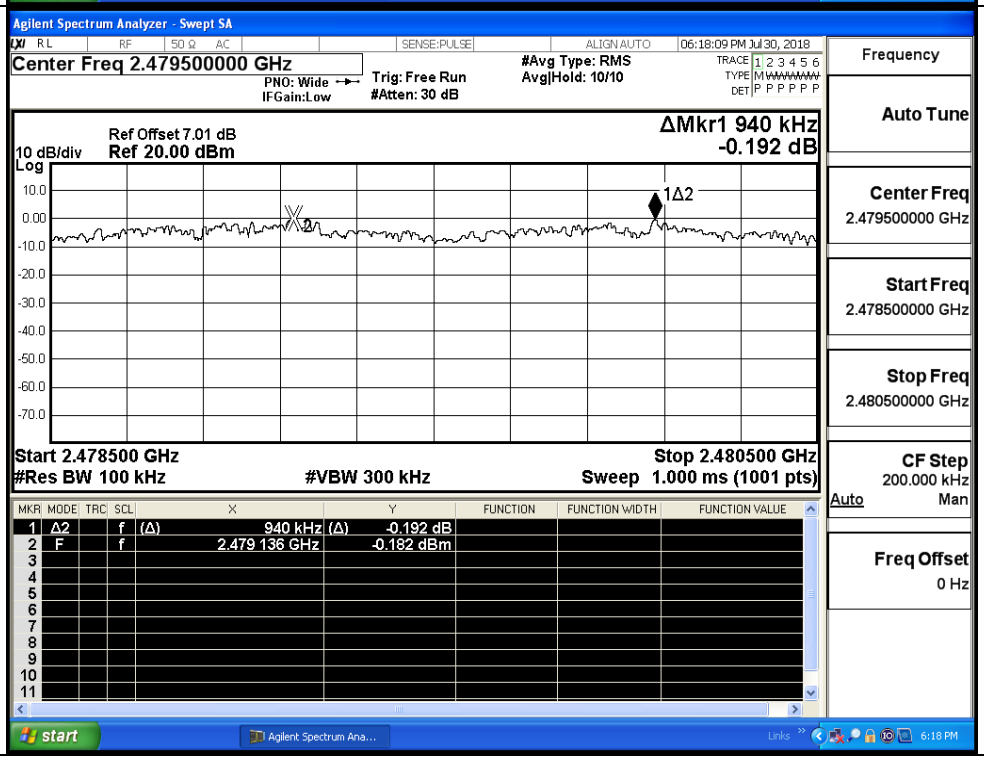
GFSK/LCH



GFSK/MCH	
GFSK/HCH	

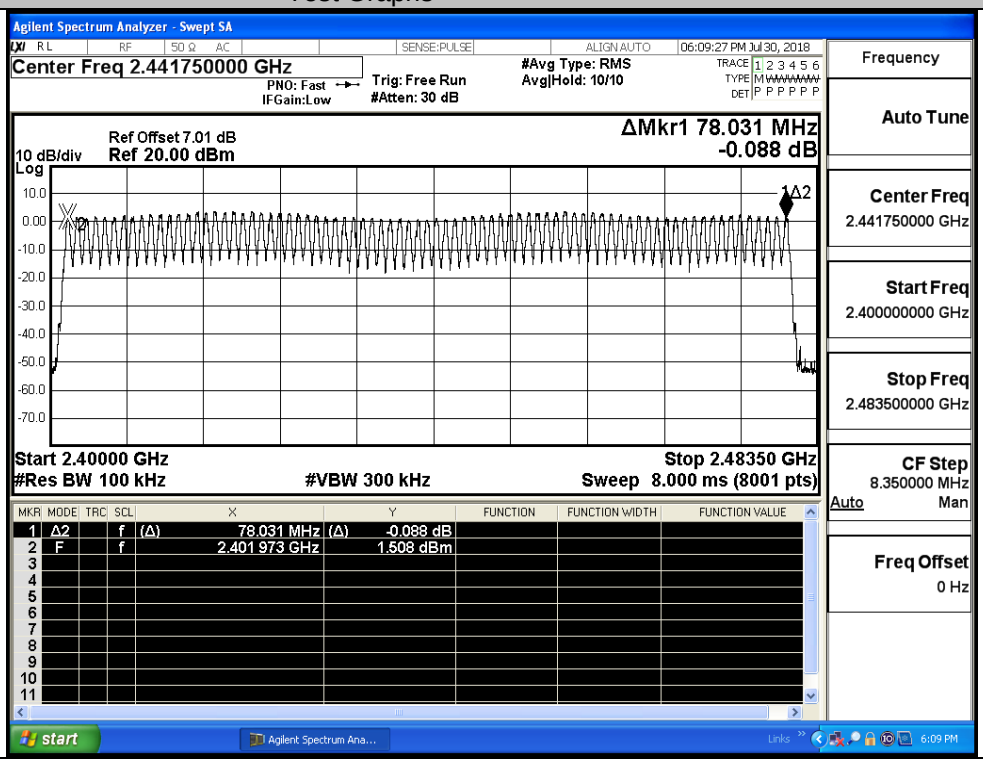
π/4DQPSK/LCH	
π/4DQPSK/MCH	

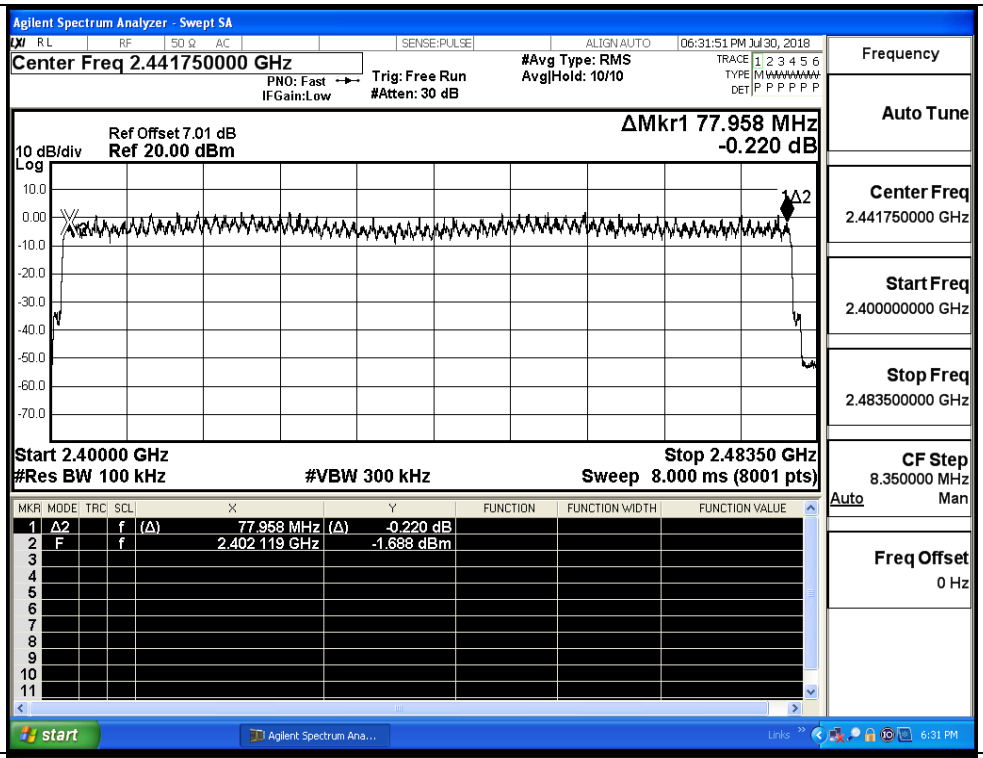
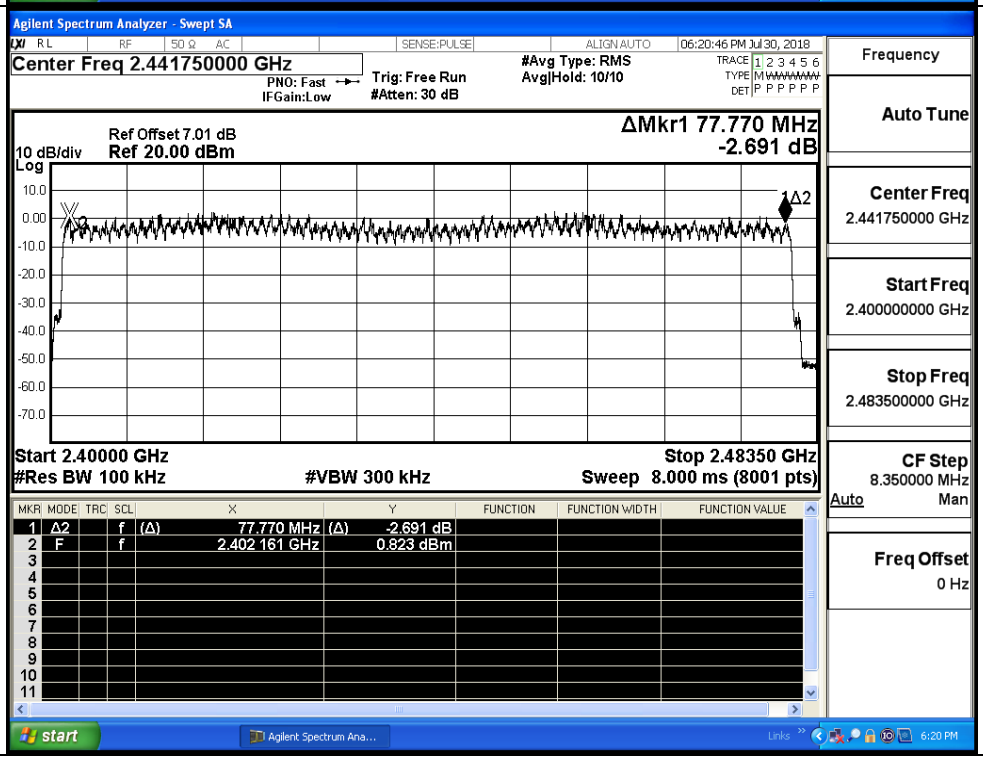
π/4DQPSK/HCH	
8DPSK/LCH	

8DPSK/MCH	
8DPSK/HCH	

A.4 Hopping Channel Number

Mode	Channel.	Number of Hopping Channel [N]	Limit [N]	Verdict
GFSK	Hop	79	>=15	PASS
π/4DQPSK	Hop	79	>=15	PASS
8DPSK	Hop	79	>=15	PASS

Test Graphs		
GFSK/Hop		

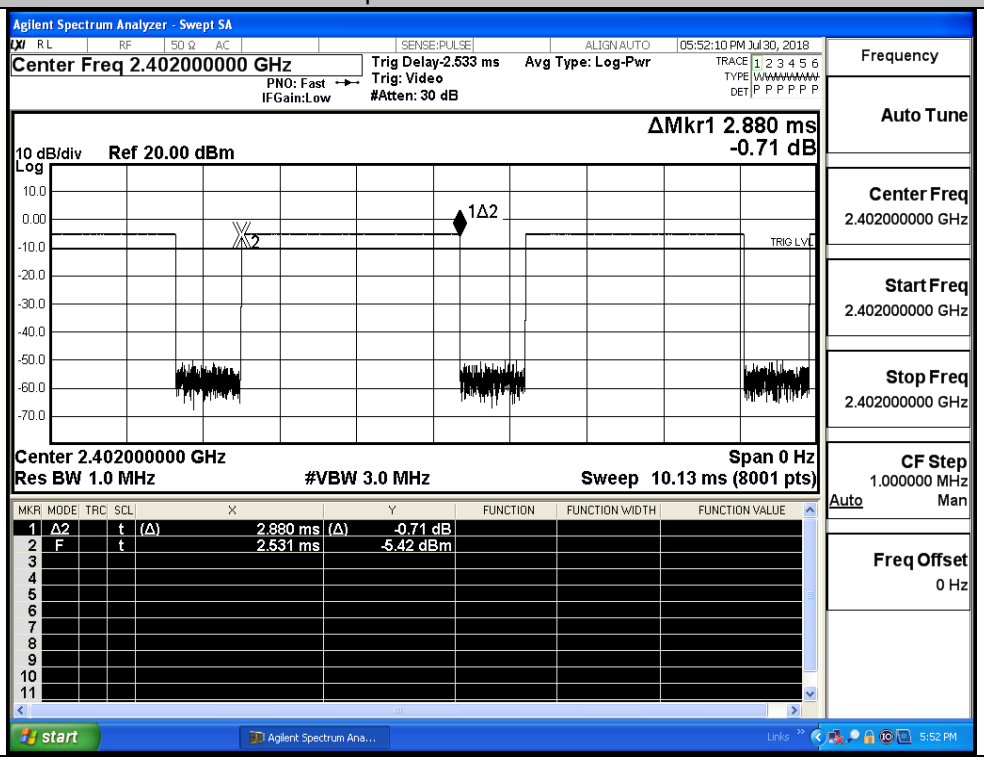
π/4DQPSK/Hop	
8DPSK/Hop	

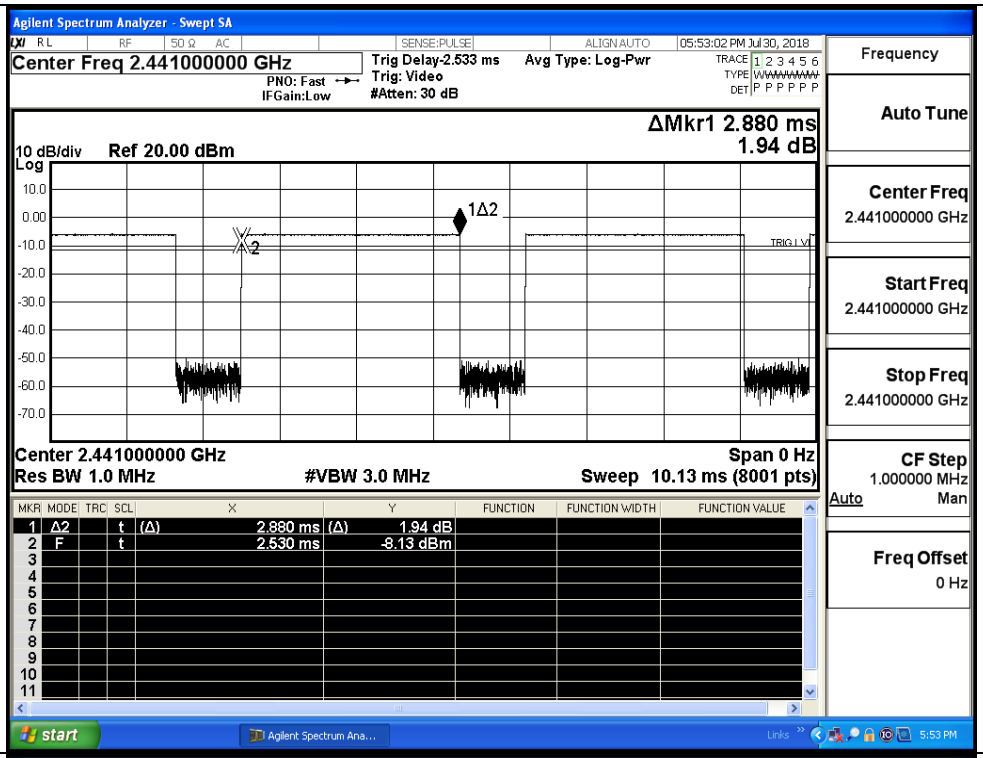
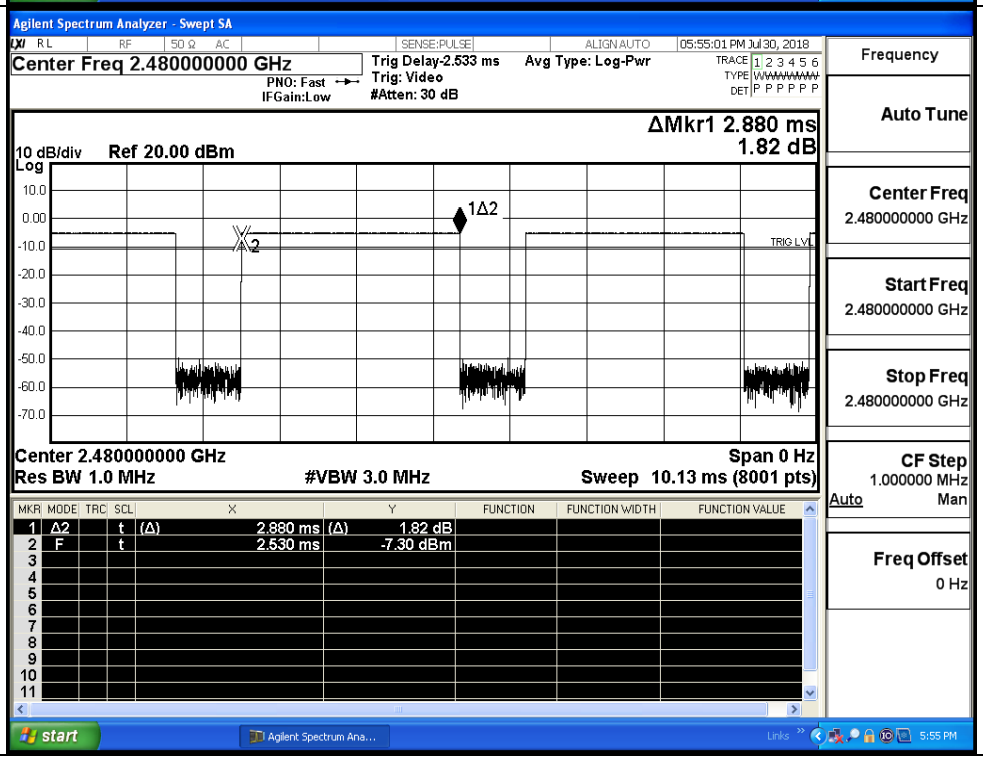
A.5 Dwell Time

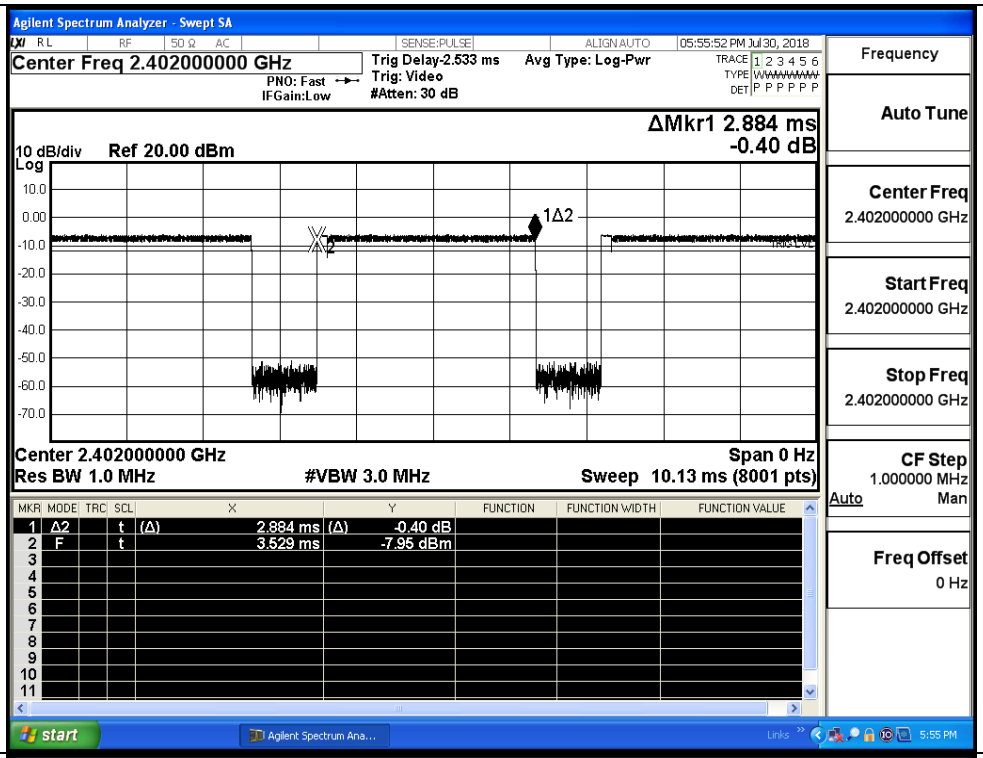
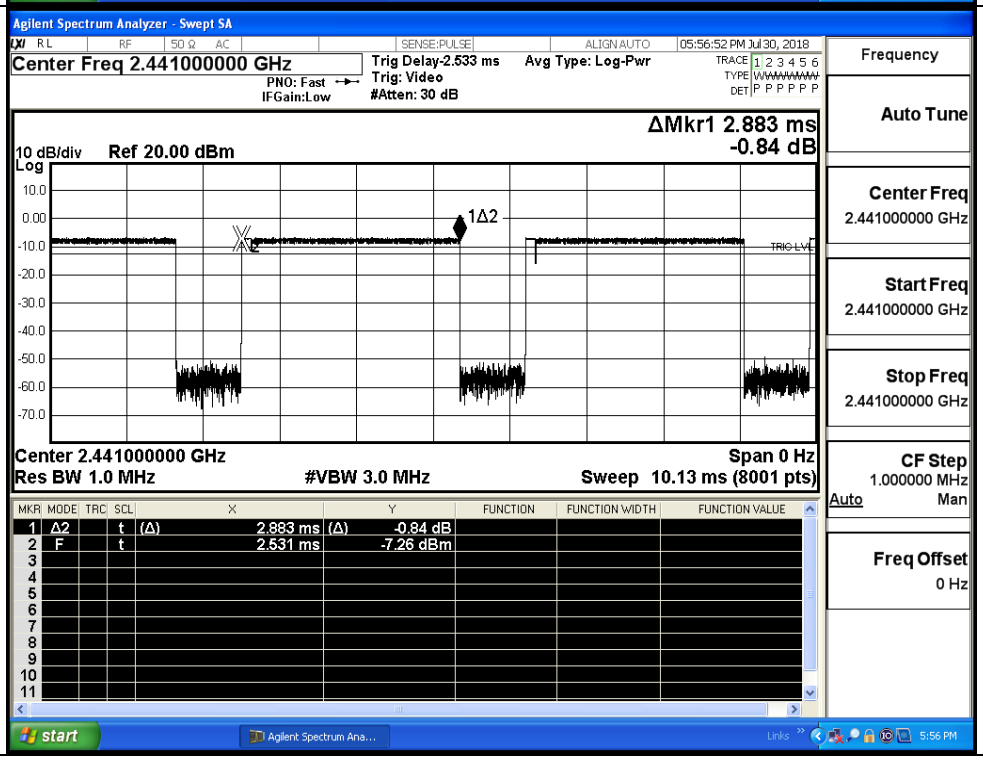
Mode	Packet	Channel	Burst Width [ms/hop/ch]	Total Hops[hop*ch]	Dwell Time[s]	Limit [s]	Verdict
GFSK	DH5	LCH	2.88	106.7	0.307	0.4	PASS
	DH5	MCH	2.88	106.7	0.307	0.4	PASS
	DH5	HCH	2.88	106.7	0.307	0.4	PASS
π/4DQPSK	2DH5	LCH	2.88	106.7	0.307	0.4	PASS
	2DH5	MCH	2.88	106.7	0.307	0.4	PASS
	2DH5	HCH	2.88	106.7	0.307	0.4	PASS
8DPSK	3DH5	LCH	2.88	106.7	0.308	0.4	PASS
	3DH5	MCH	2.88	106.7	0.308	0.4	PASS
	3DH5	HCH	2.88	106.7	0.308	0.4	PASS

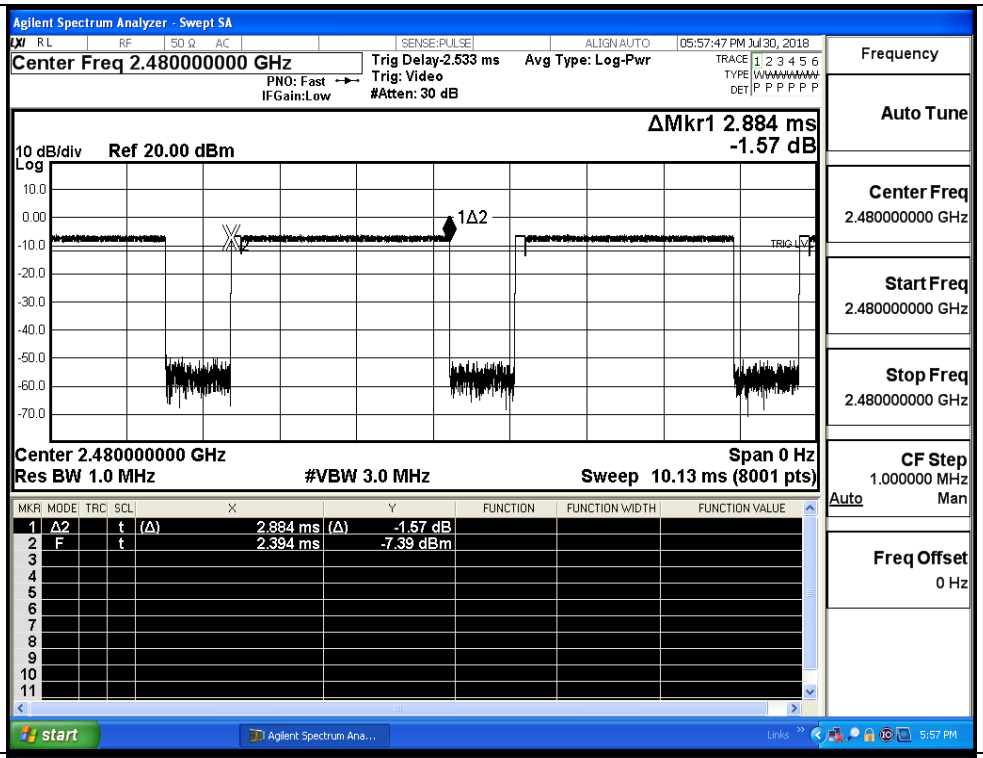
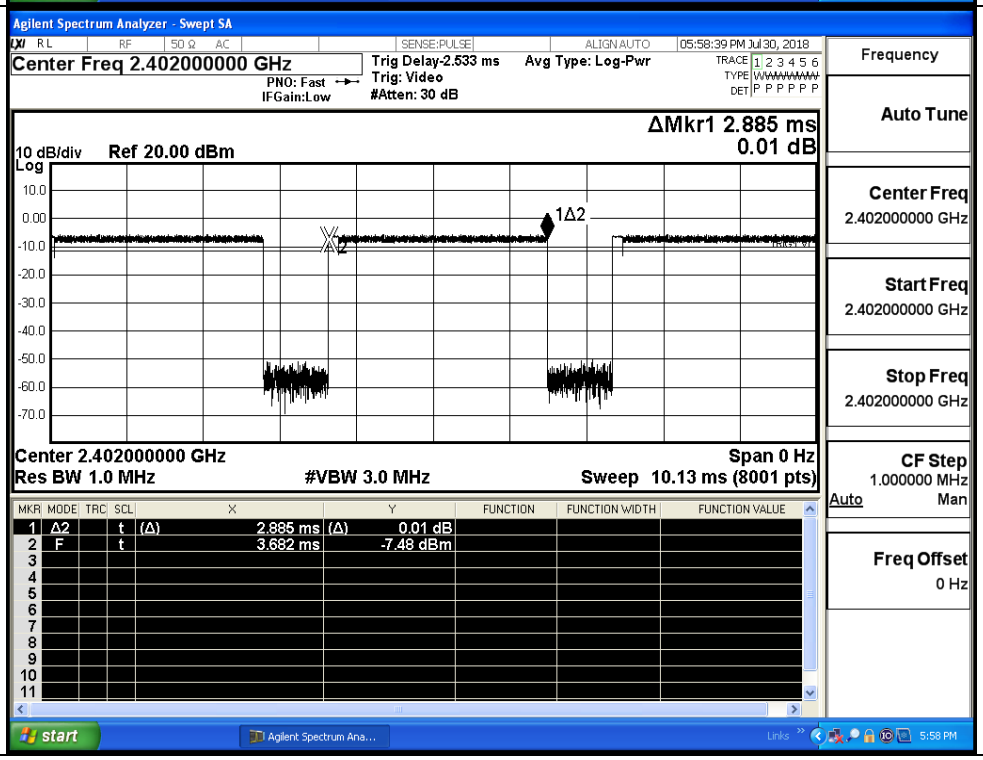
Test Graphs

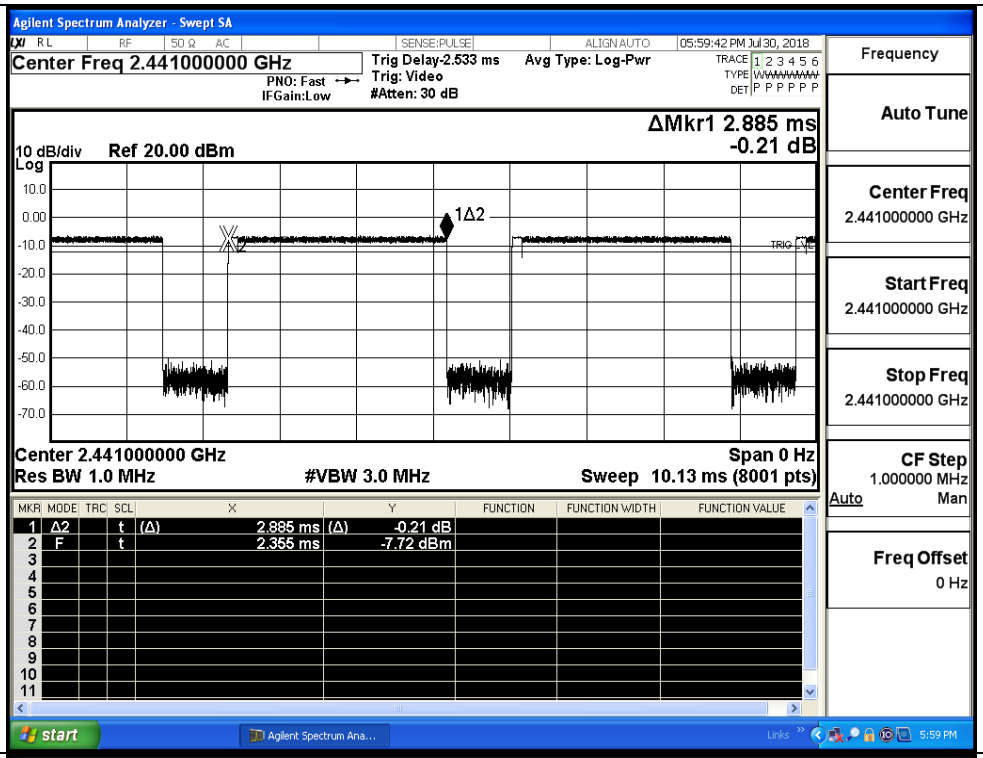
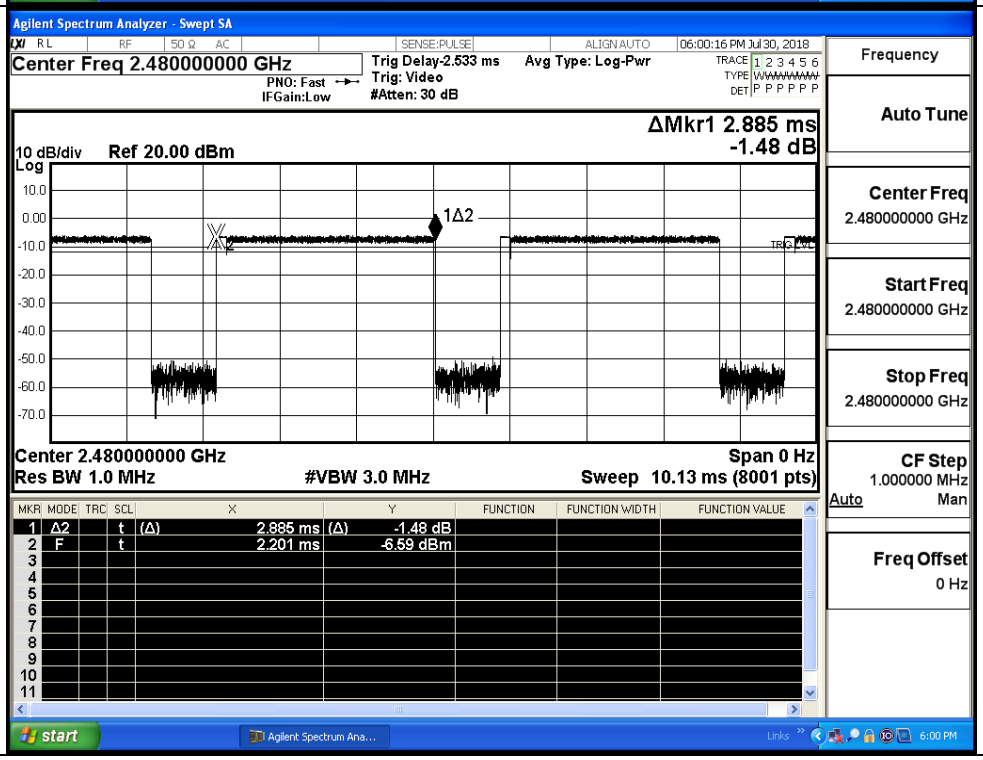
GFSK_DH5/LCH



GFSK_DH5/MCH	
GFSK_DH5/HCH	

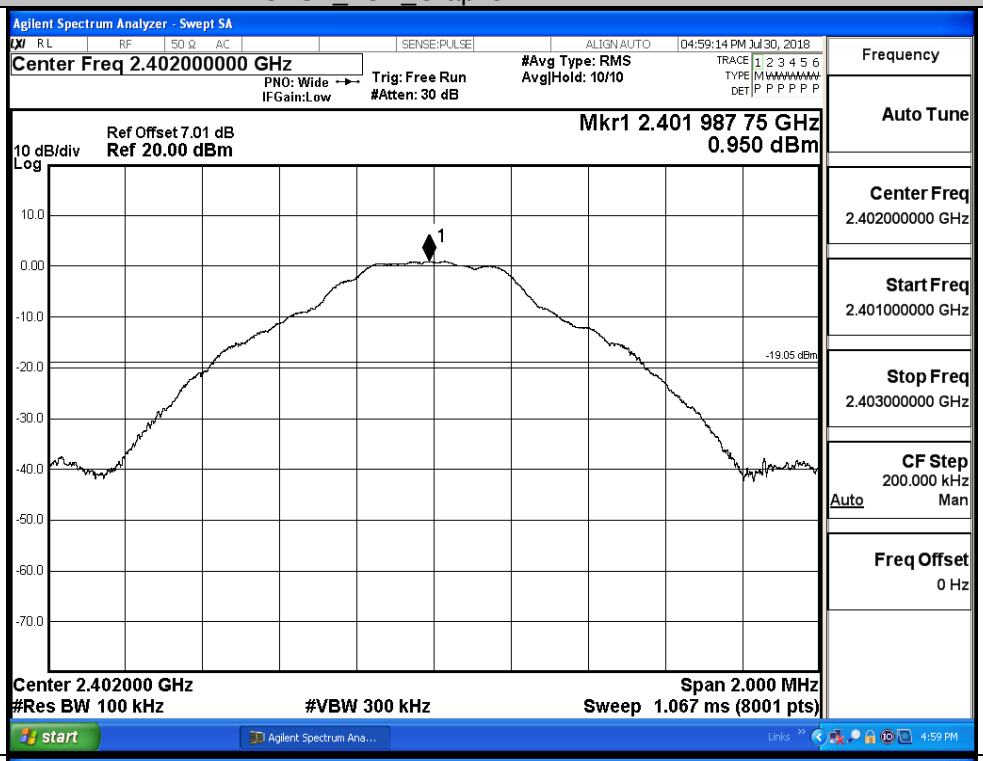
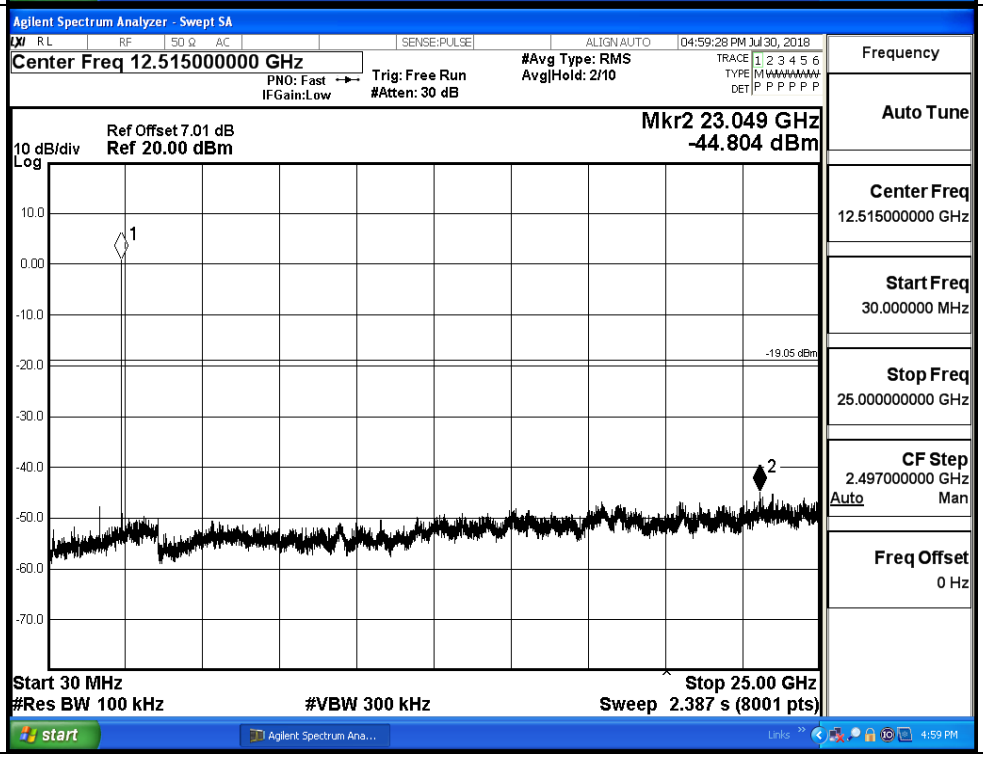
π/4DQPSK _2DH5/LCH	
π/4DQPSK _2DH5/MCH	

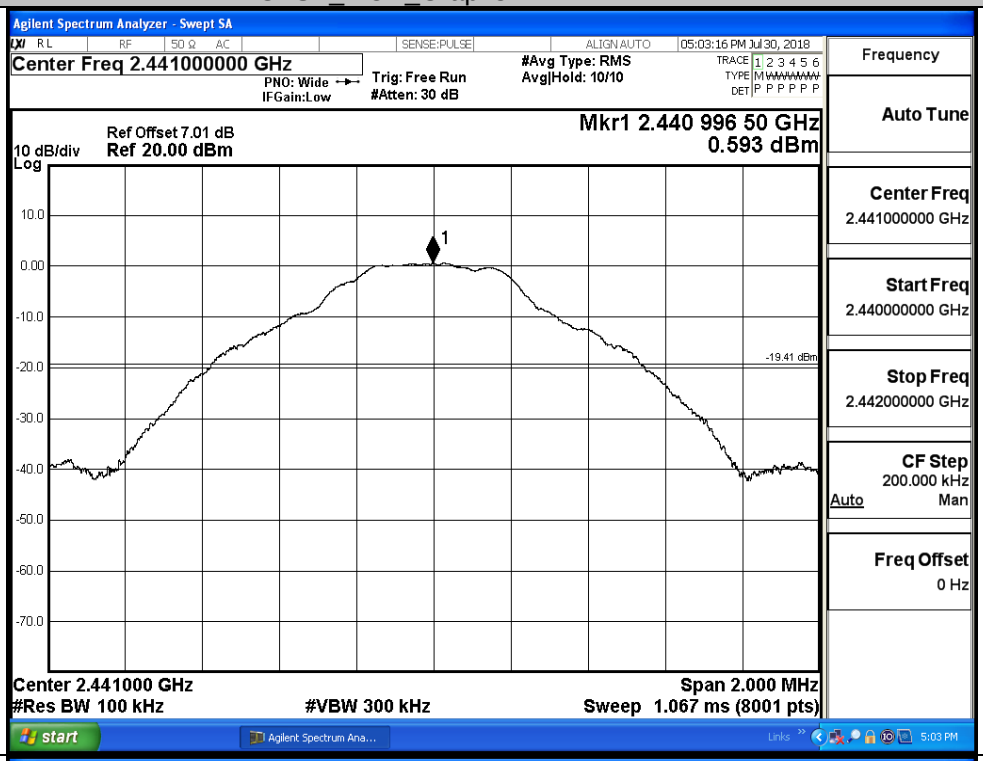
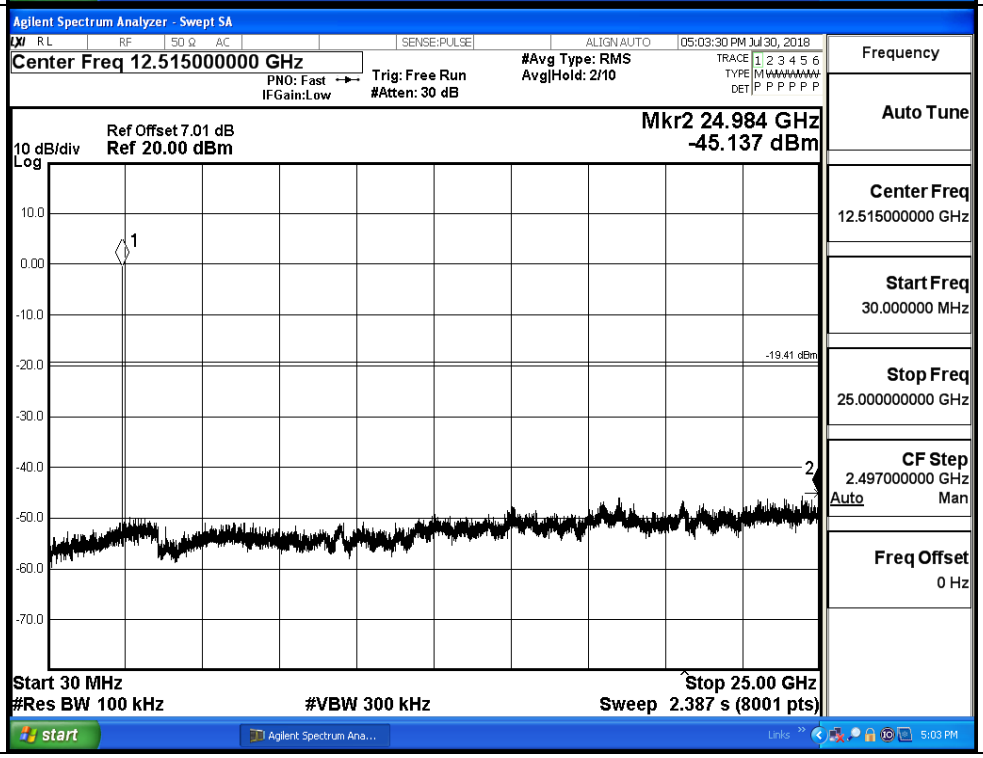
π/4DQPSK _2DH5/HCH	
8DPSK _3DH5/LCH	

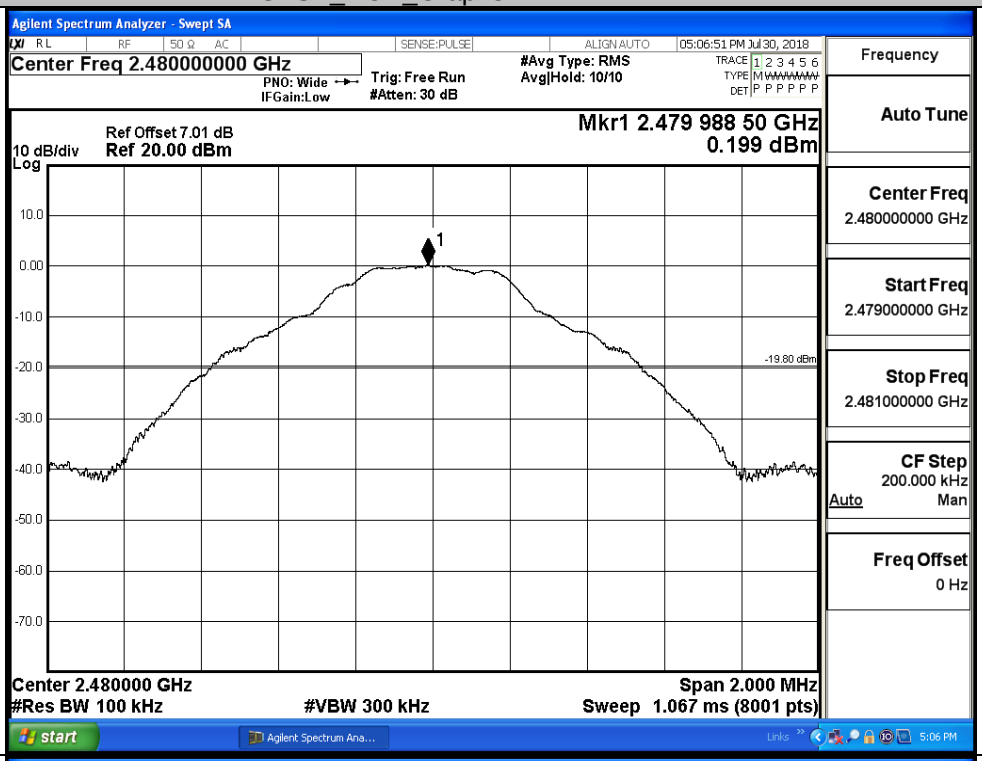
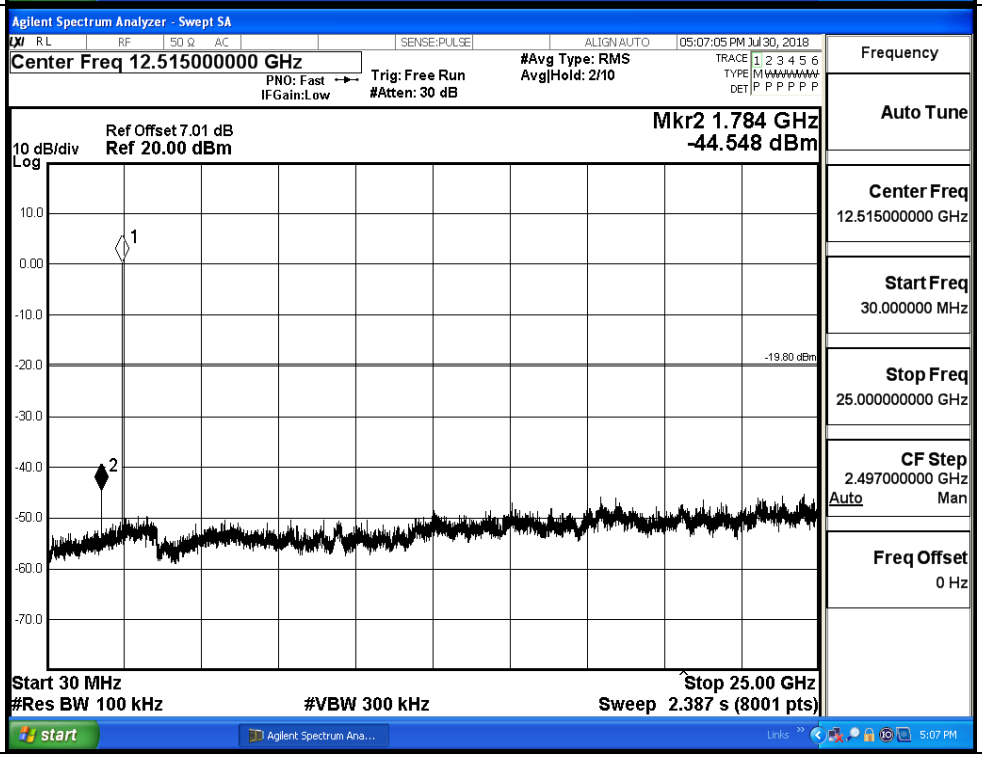
8DPSK _3DH5/MCH	
8DPSK _3DH5/HCH	

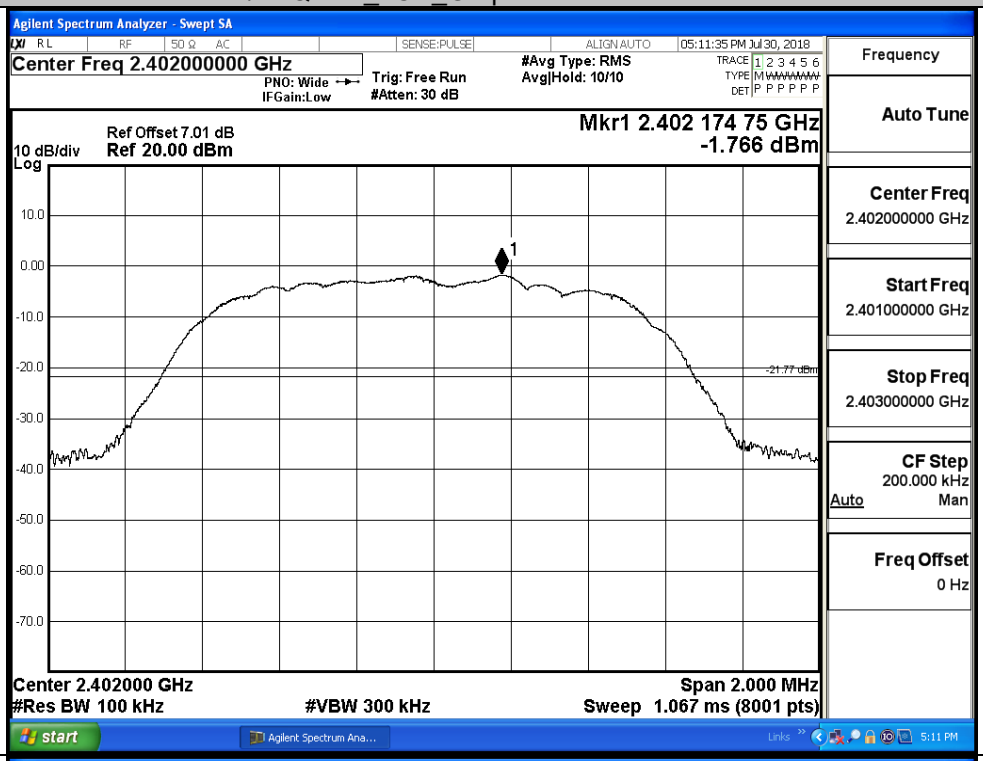
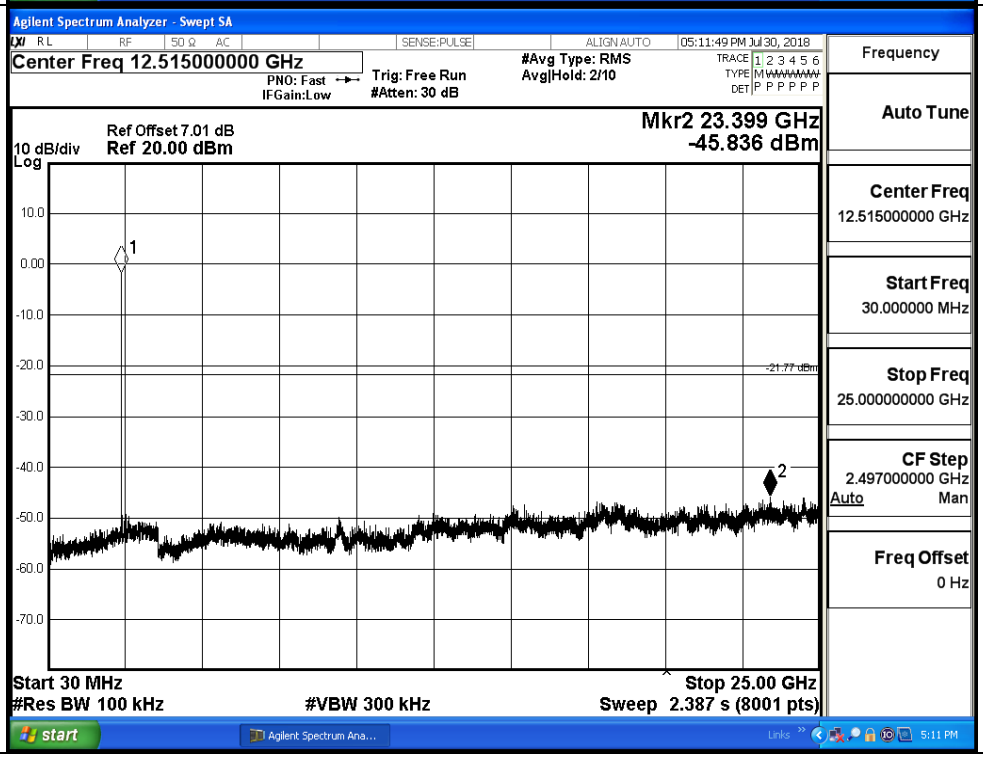
A.6 RF Conducted Spurious Emissions

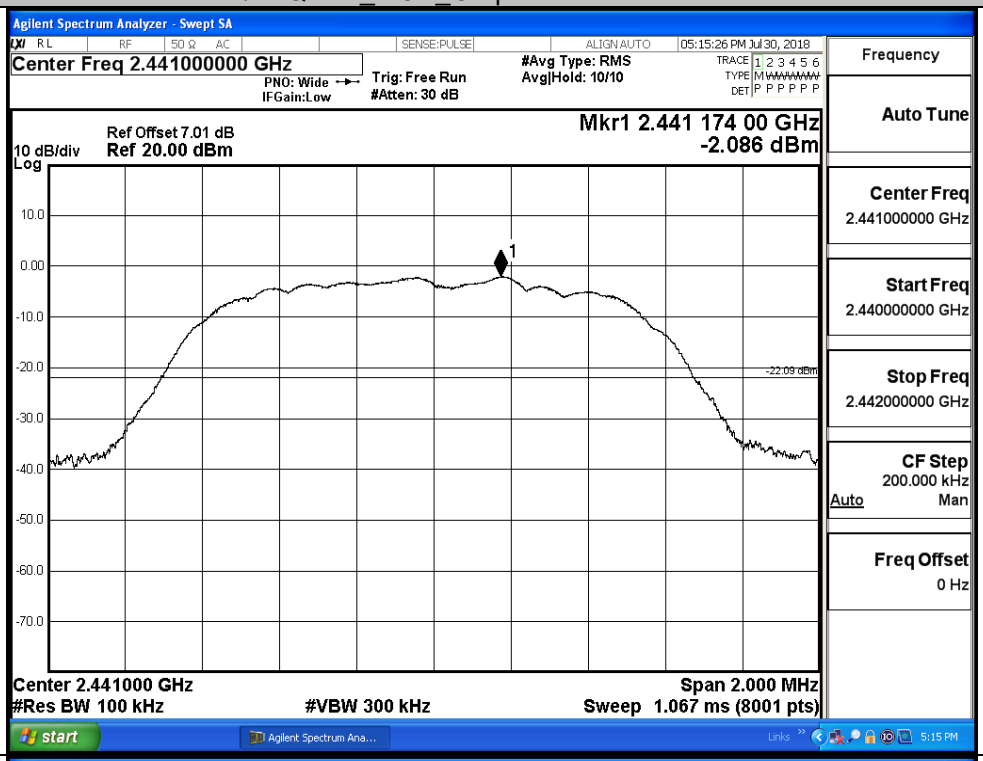
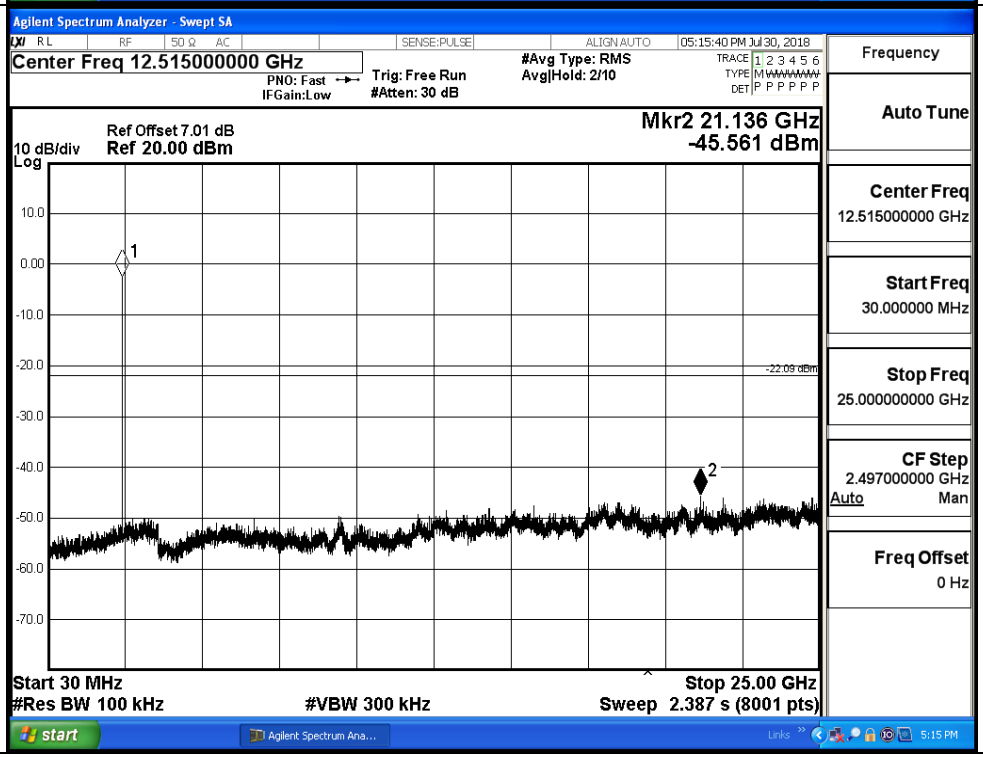
Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
GFSK	LCH	0.95	-44.804	-19.050	PASS
	MCH	0.593	-45.137	-19.407	PASS
	HCH	0.199	-44.548	-19.801	PASS
π/4DQPSK	LCH	-1.766	-45.836	-21.766	PASS
	MCH	-2.086	-45.561	-22.086	PASS
	HCH	-2.613	-44.253	-22.613	PASS
8DPSK	LCH	-1.477	-44.907	-21.477	PASS
	MCH	-1.699	-45.300	-21.699	PASS
	HCH	-2.17	-45.102	-22.170	PASS

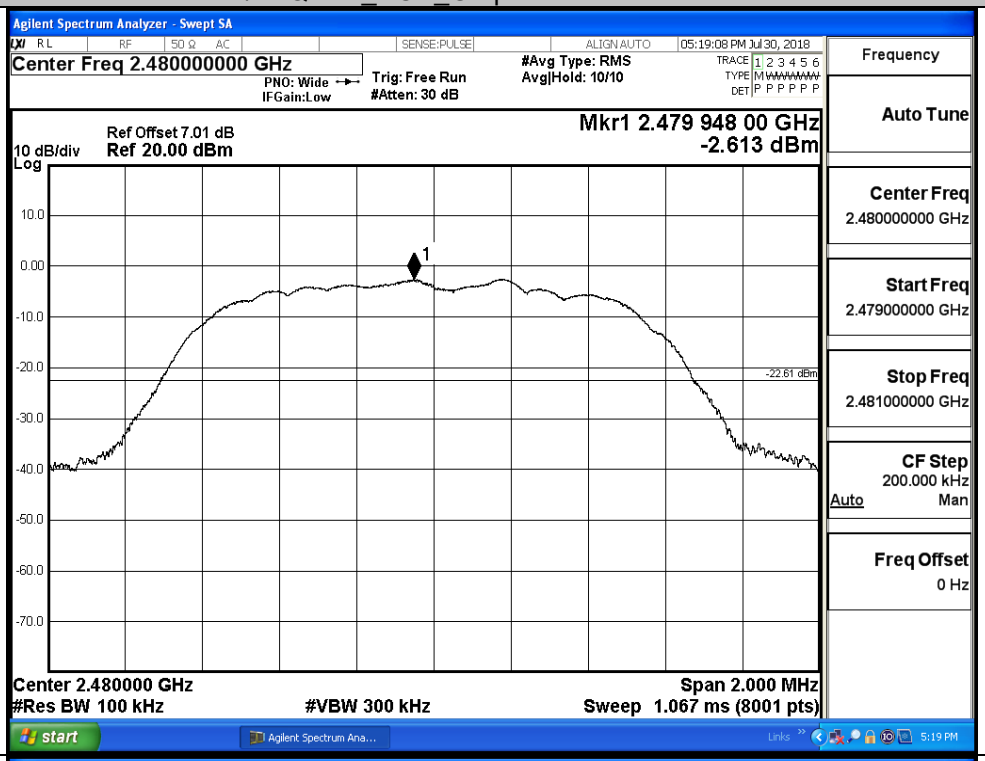
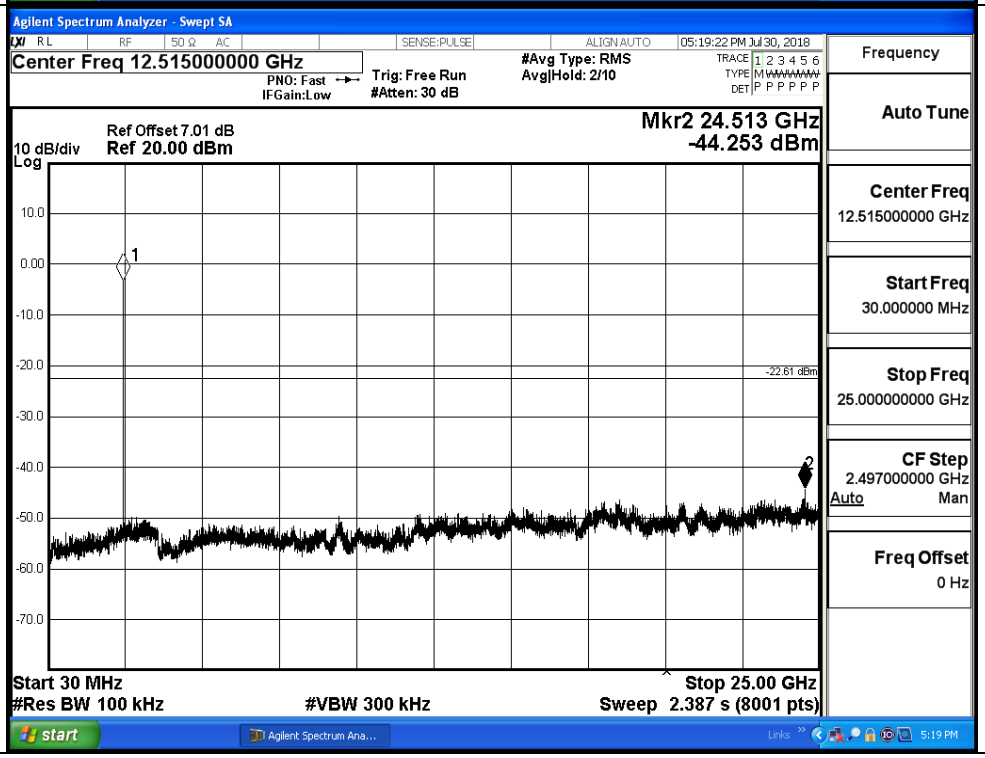
GFSK_LCH_Graphs		
Pref		
Puw		

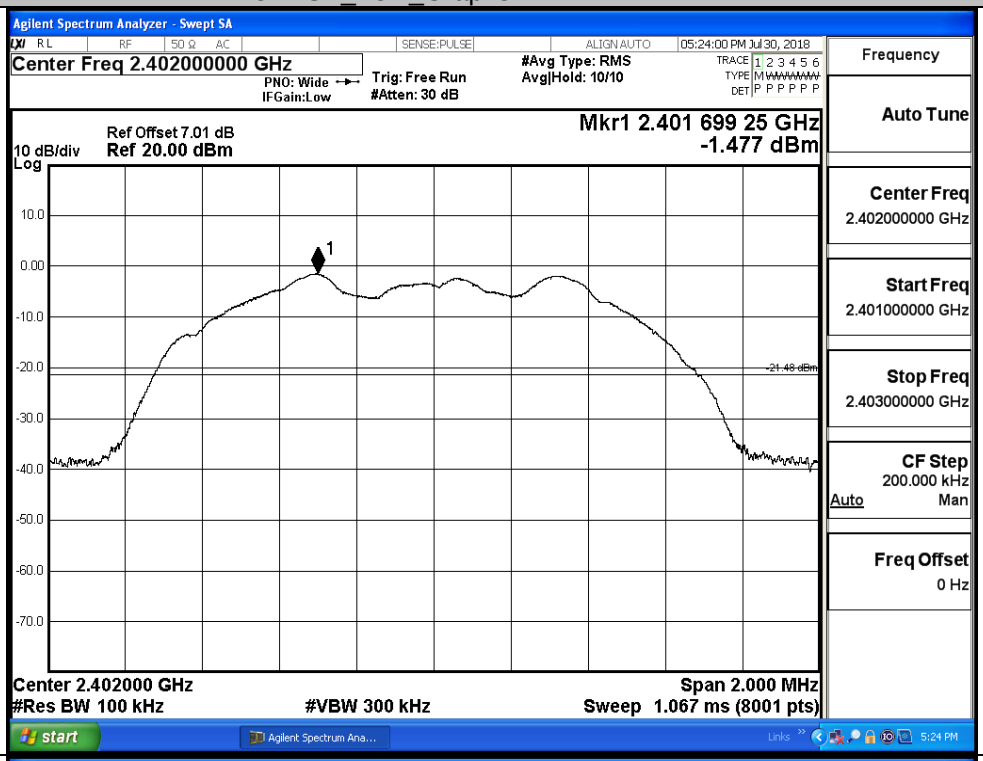
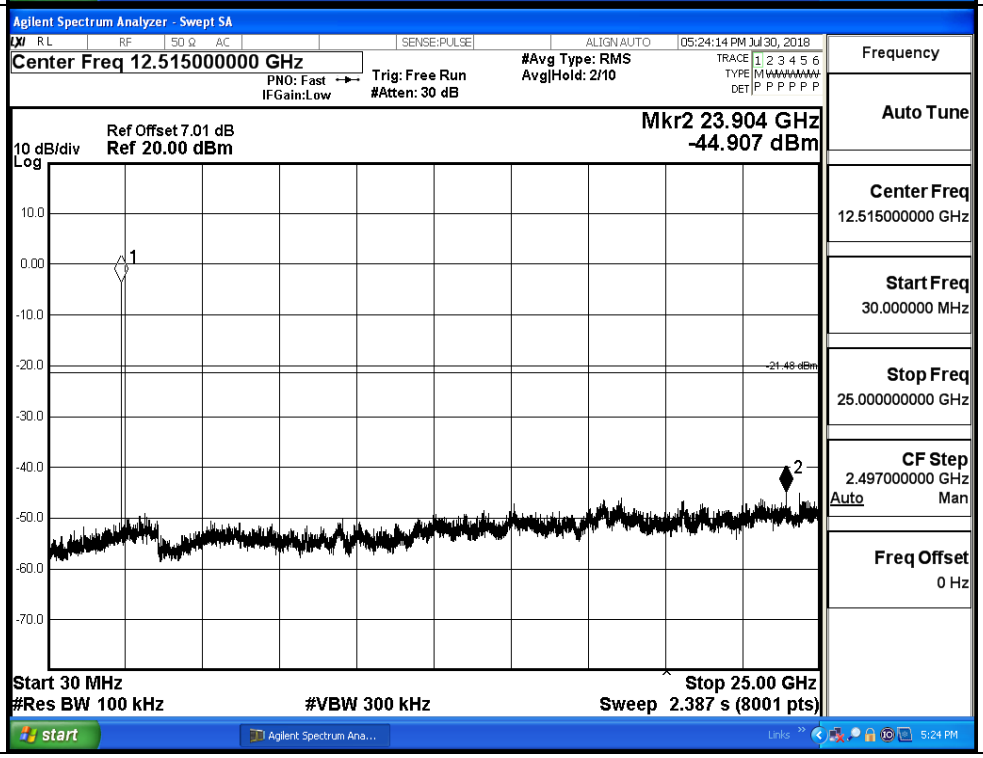
GFSK_MCH_Graphs		
Pref		
Puw		

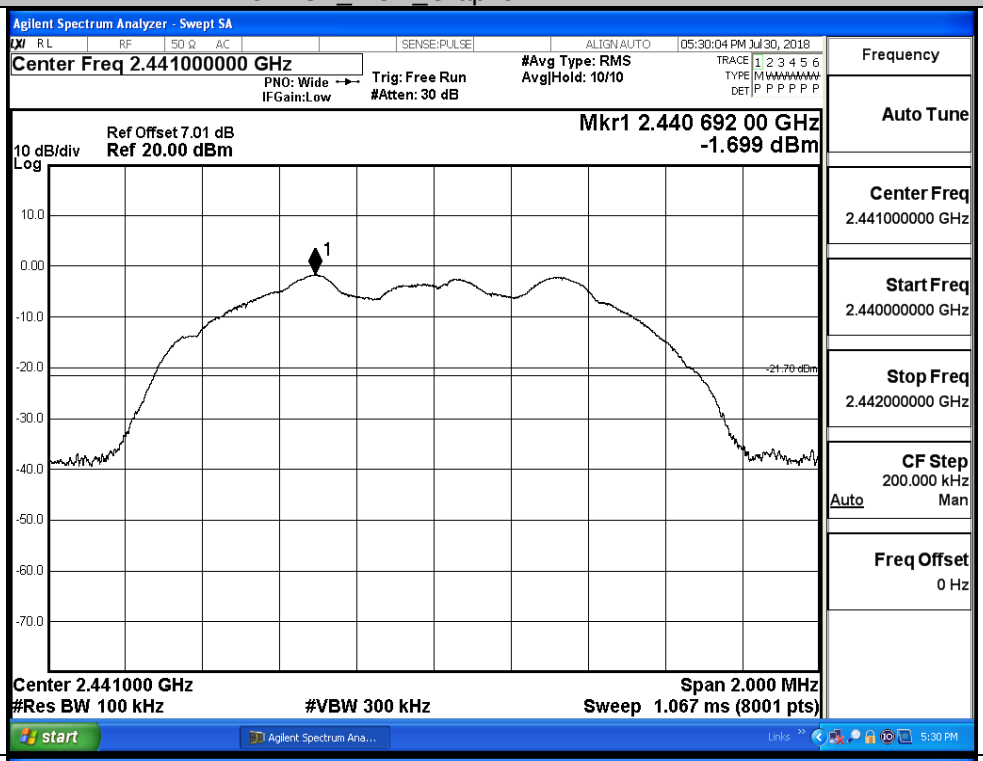
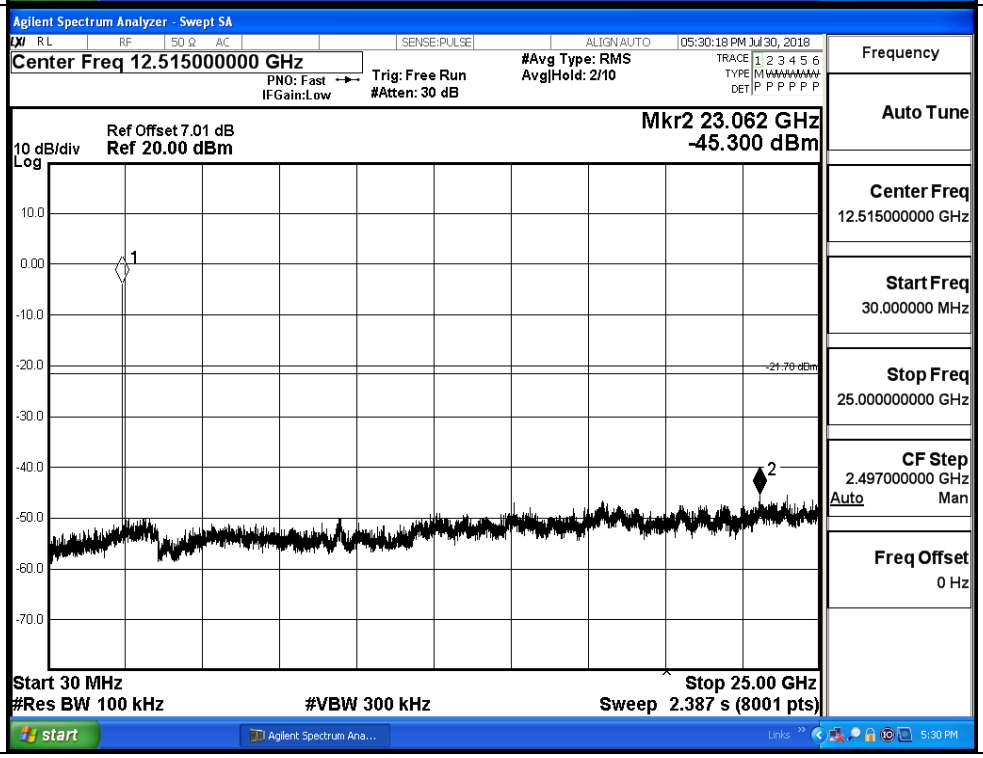
GFSK_HCH_Graphs		
Pref		
Puw		

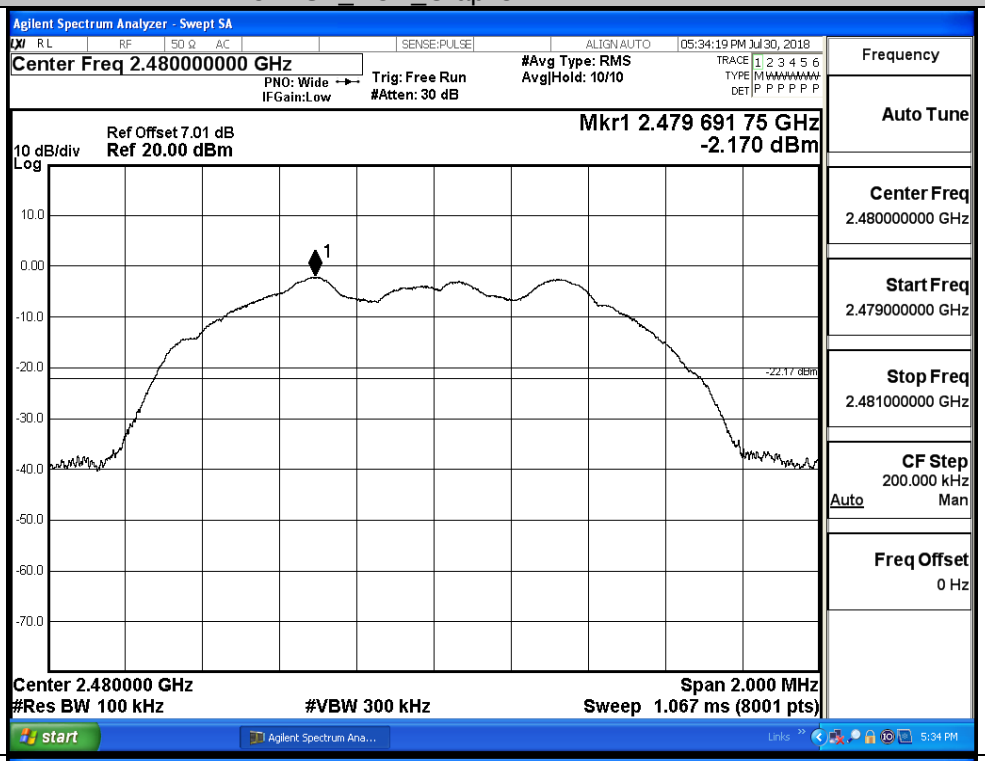
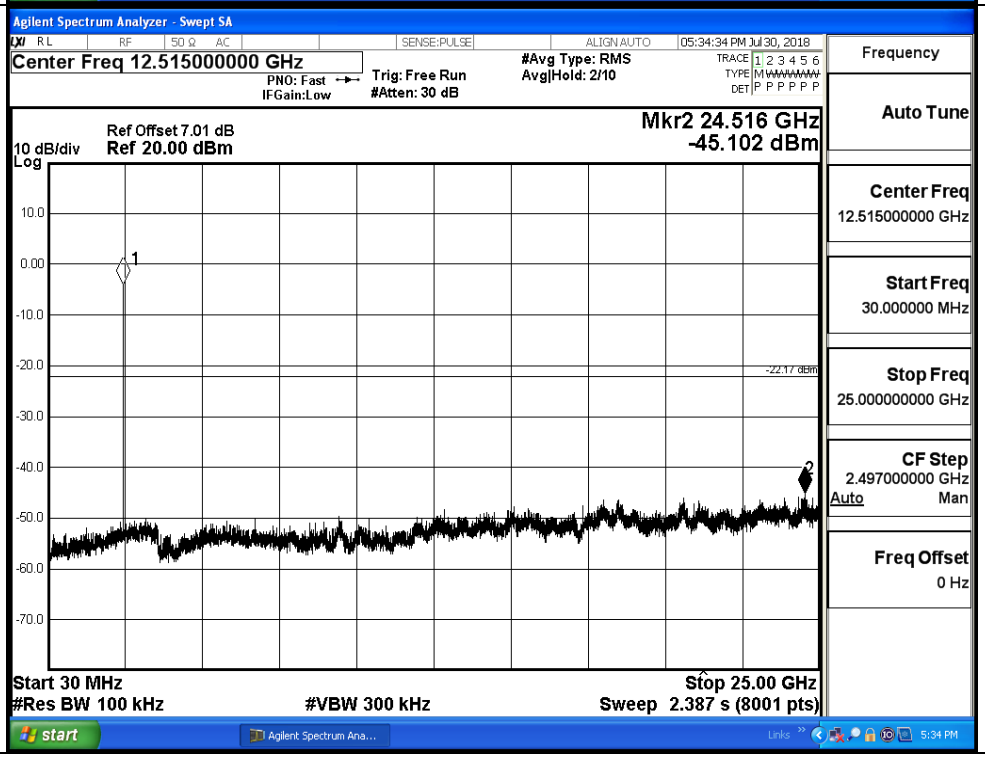
π/4DQPSK_LCH_Graphs		
Pref		
Puw		

π/4DQPSK_MCH_Graphs		
Pref		
Puw		

π/4DQPSK_HCH_Graphs		
Pref		
Puw		

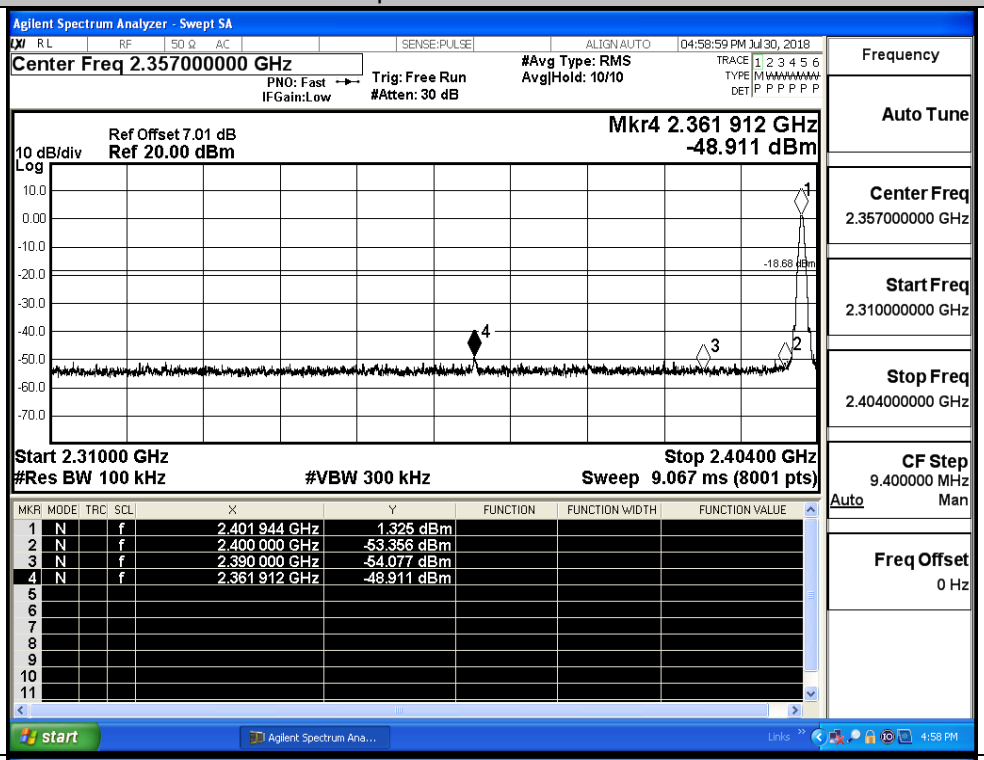
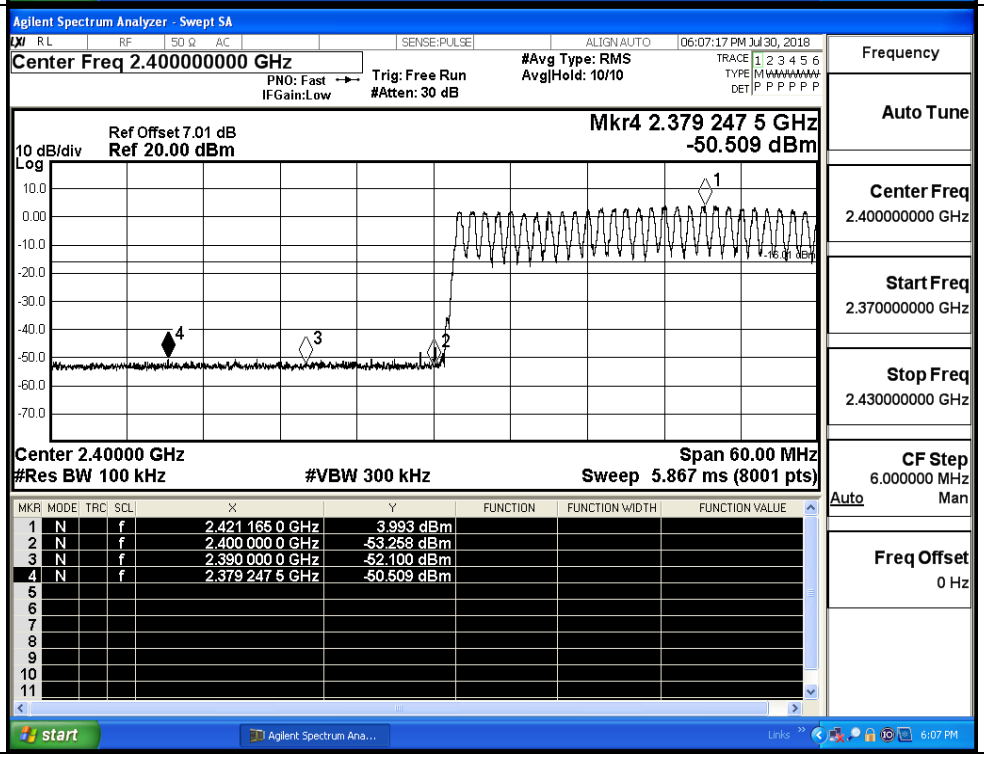
8DPSK_LCH_Graphs		
Pref		
Puw		

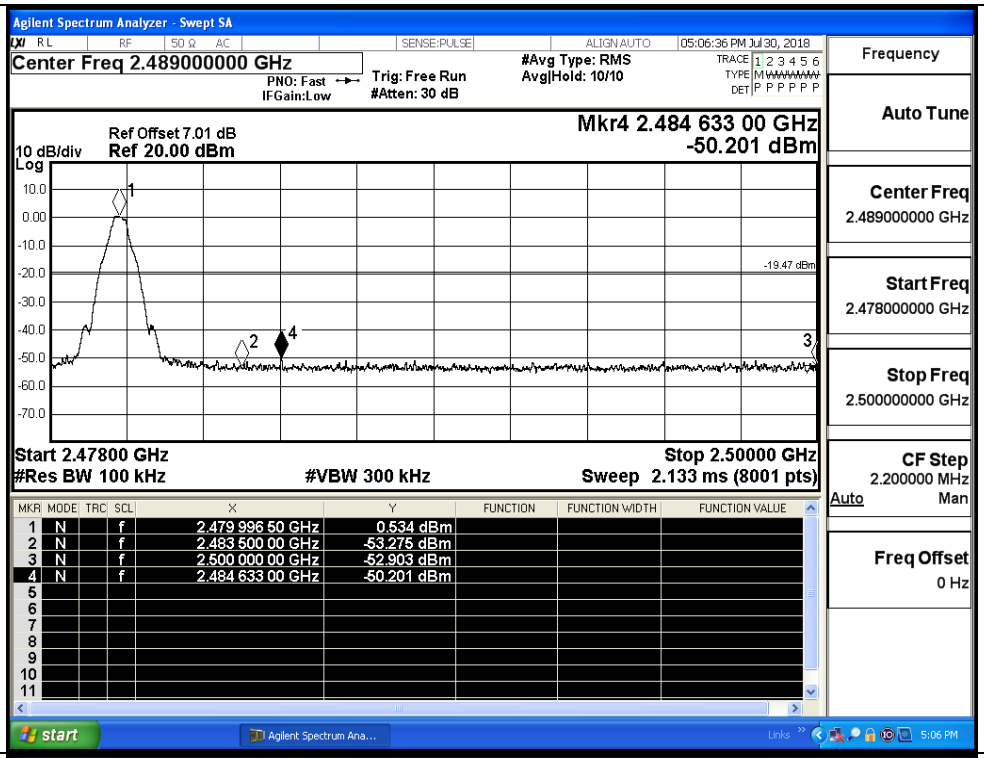
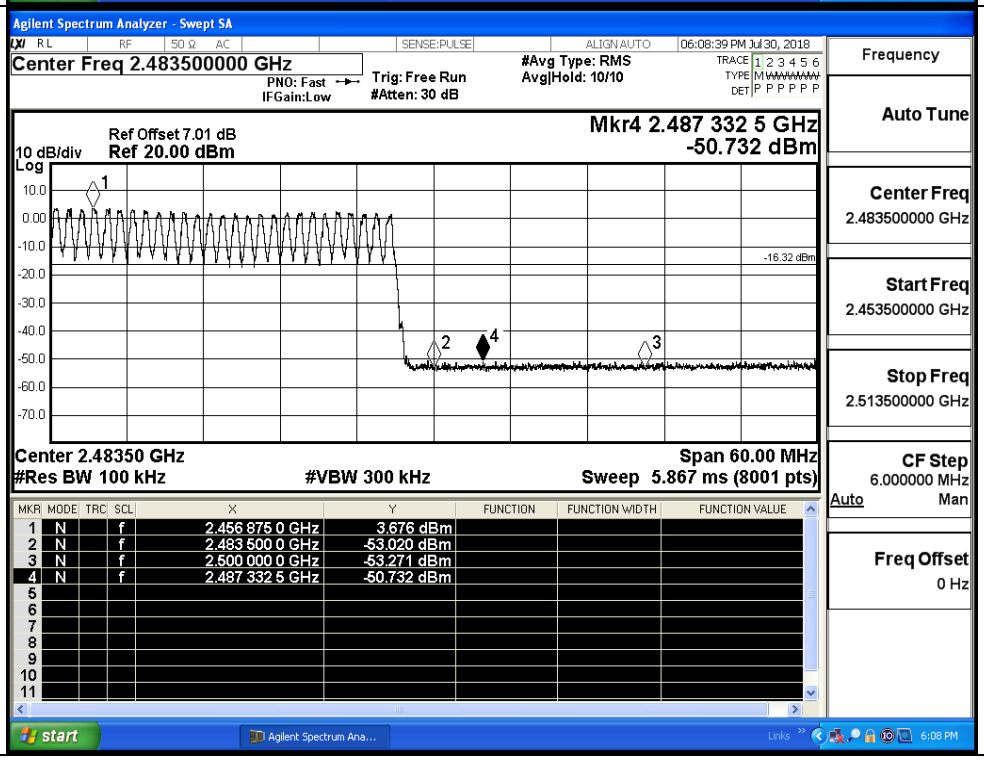
8DPSK_MCH_Graphs		
Pref		
Puw		

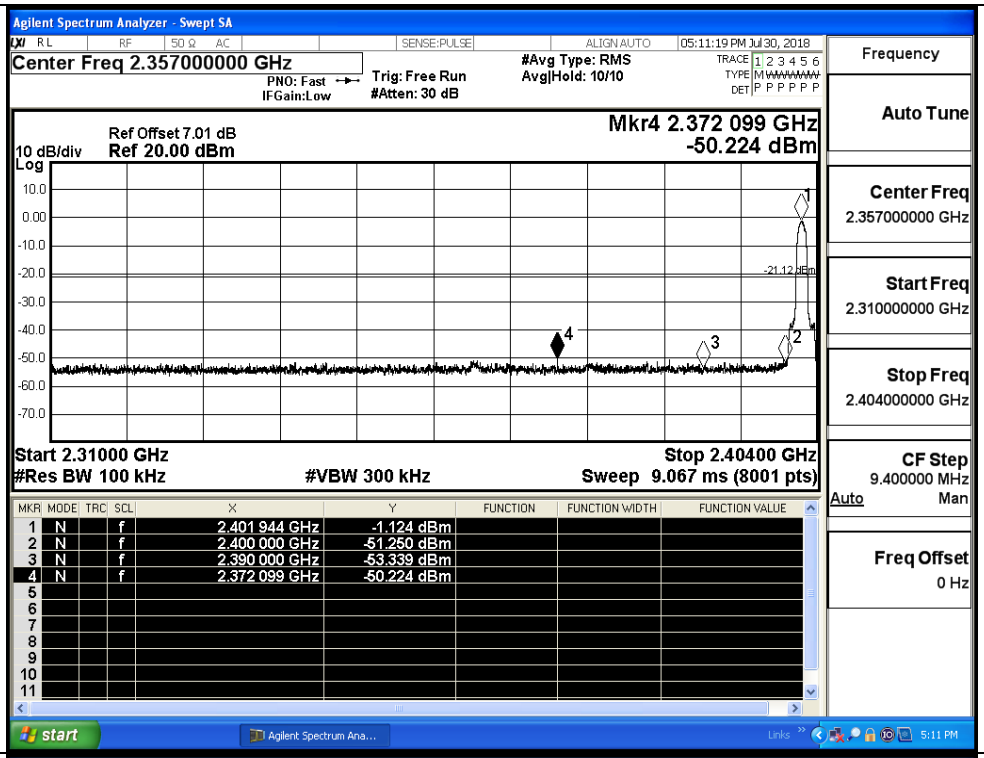
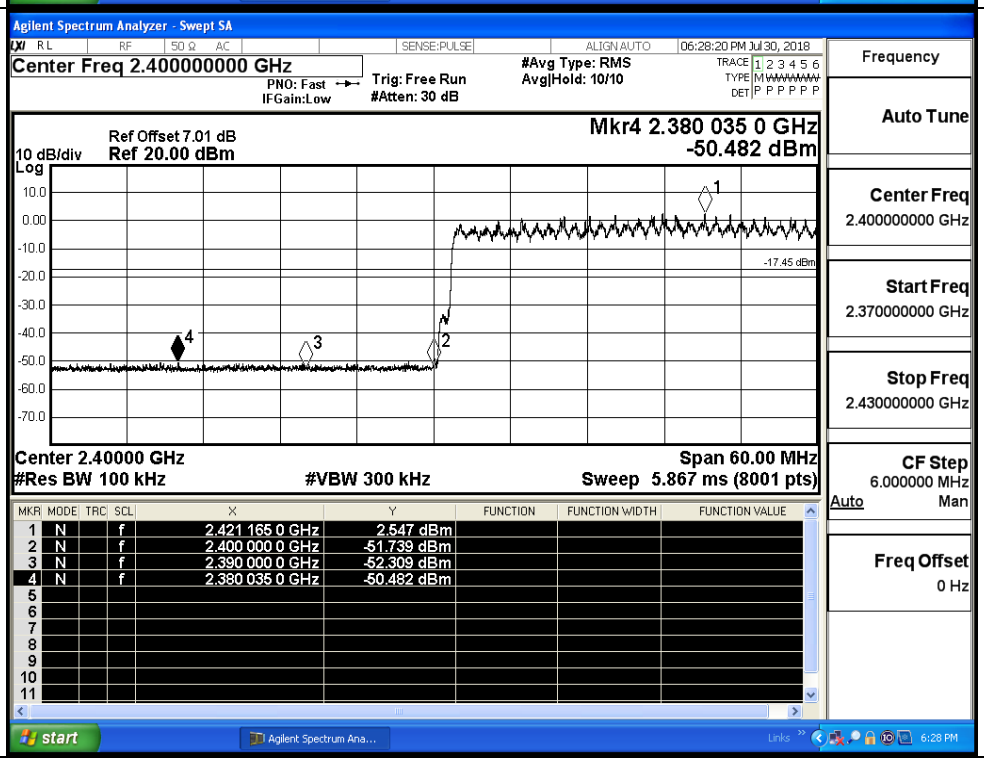
8DPSK_HCH_Graphs		
Pref		
Puw		

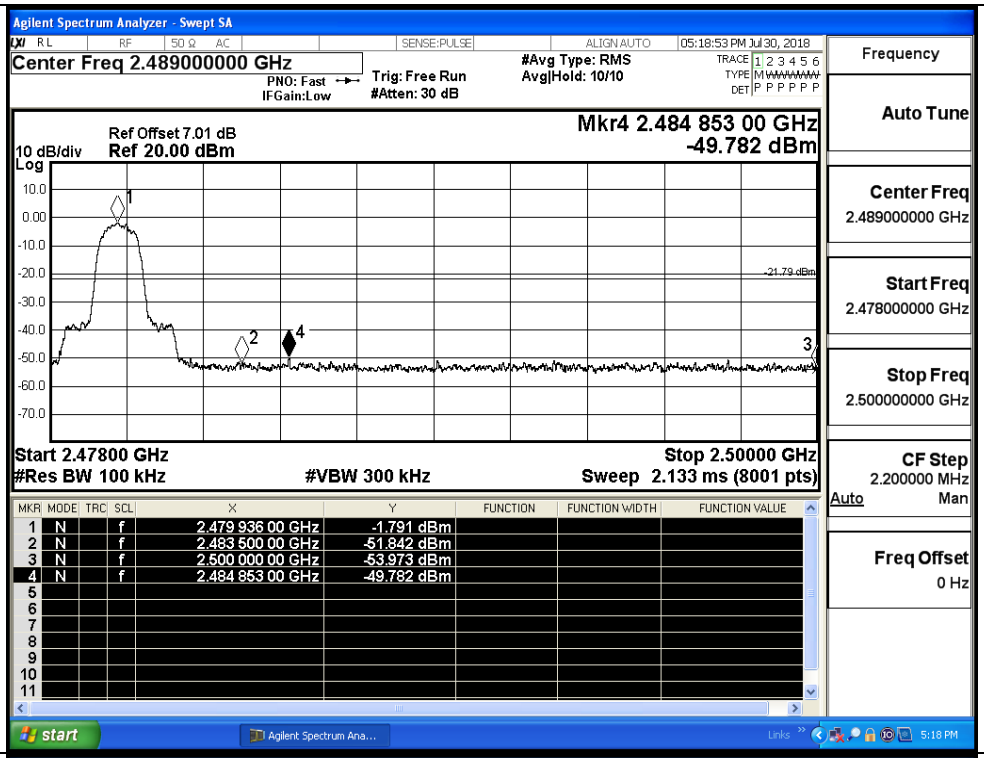
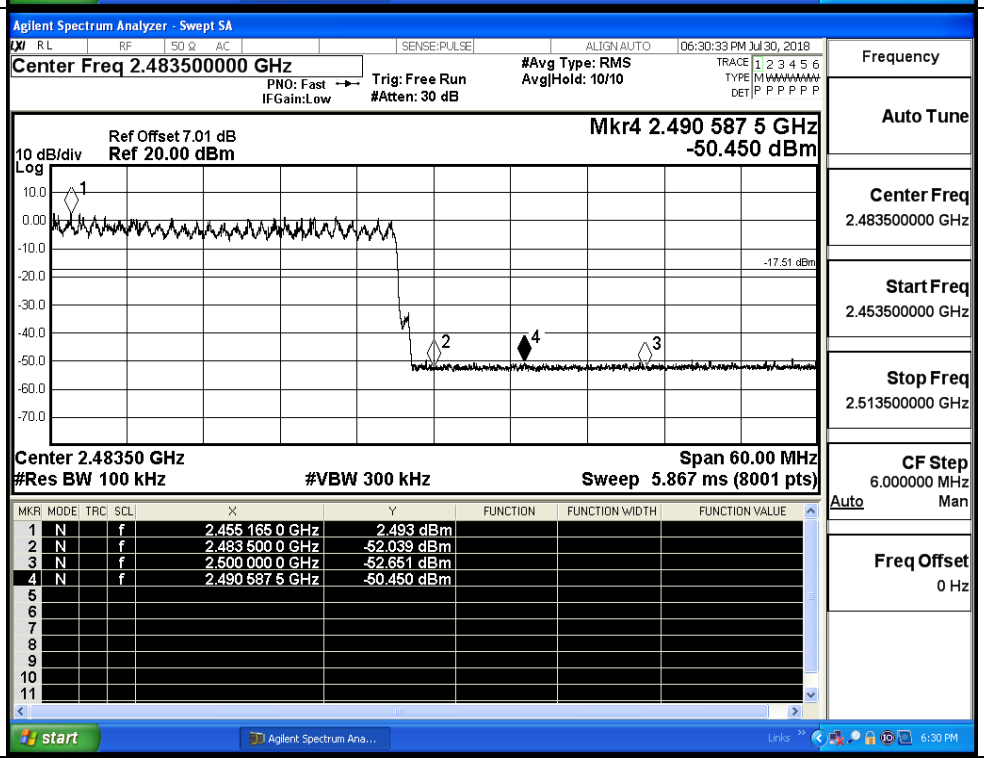
A.7 Band-edge for RF Conducted Emissions

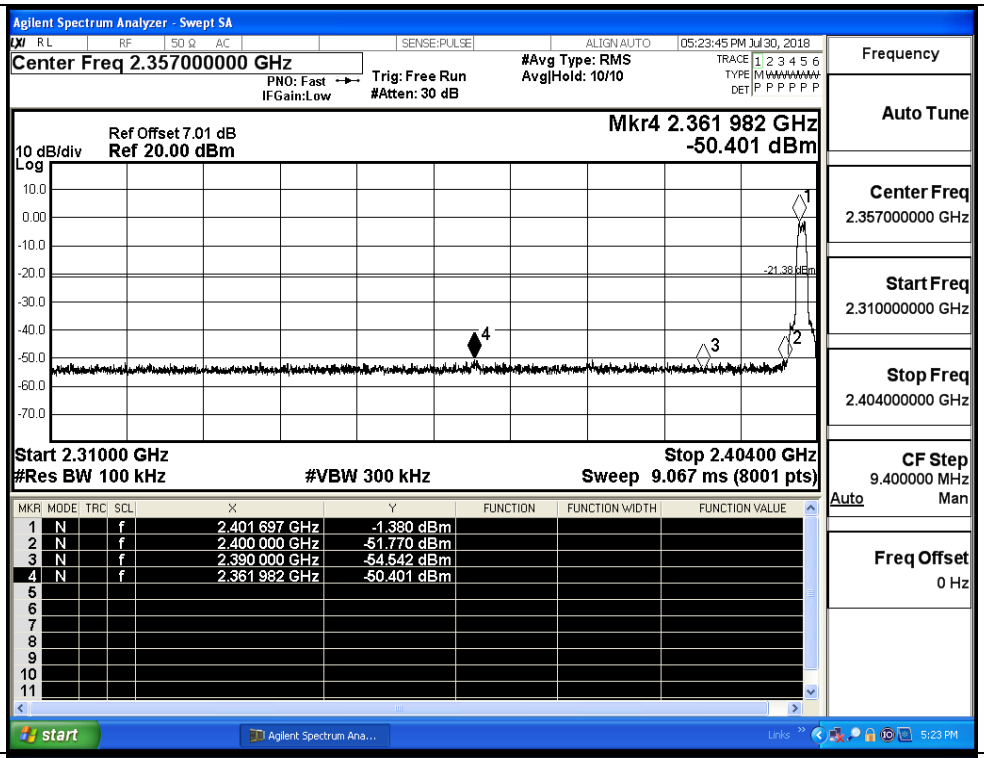
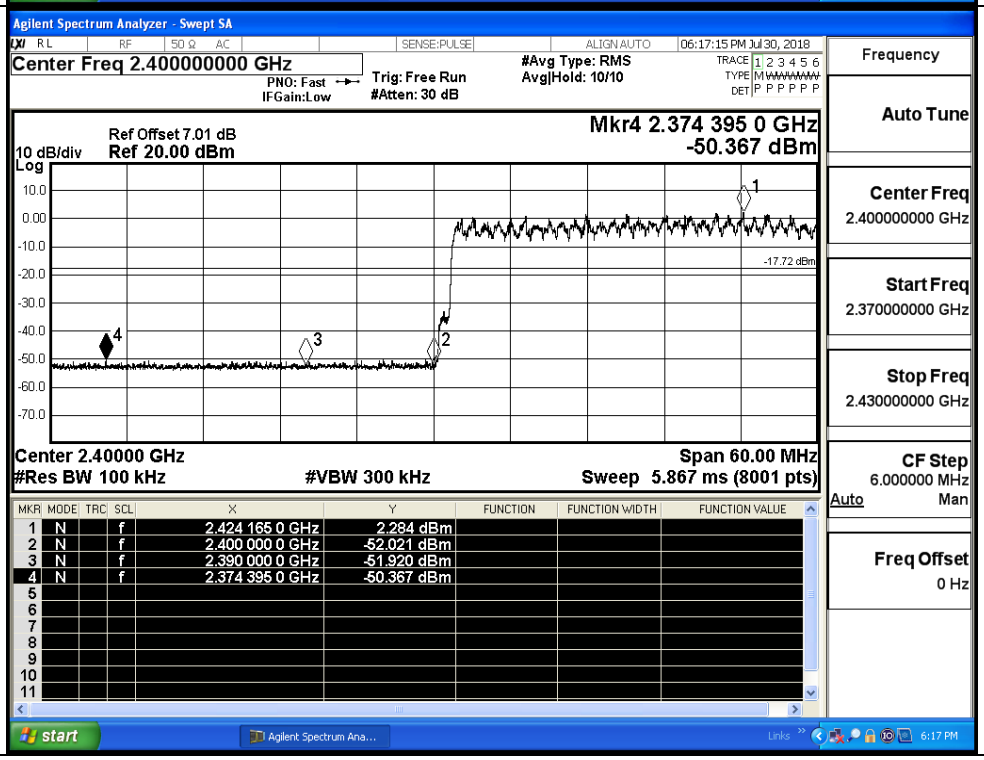
Mode	Channel	Carrier Frequency [MHz]	Carrier Power [dBm]	Frequency Hopping	Max Spurious Level [dBm]	Limit [dBm]	Verdict
GFSK	LCH	2402	1.325	Off	-48.911	-18.68	PASS
			3.993	On	-50.509	-16.01	PASS
	HCH	2480	0.534	Off	-50.201	-19.47	PASS
			3.676	On	-50.732	-16.32	PASS
π/4DQPSK	LCH	2402	-1.124	Off	-50.224	-21.12	PASS
			2.547	On	-50.482	-17.45	PASS
	HCH	2480	-1.791	Off	-49.782	-21.79	PASS
			2.493	On	-50.450	-17.51	PASS
8DPSK	LCH	2402	-1.380	Off	-50.401	-21.38	PASS
			2.284	On	-50.367	-17.72	PASS
	HCH	2480	-1.976	Off	-50.891	-21.98	PASS
			2.021	On	-50.399	-17.98	PASS

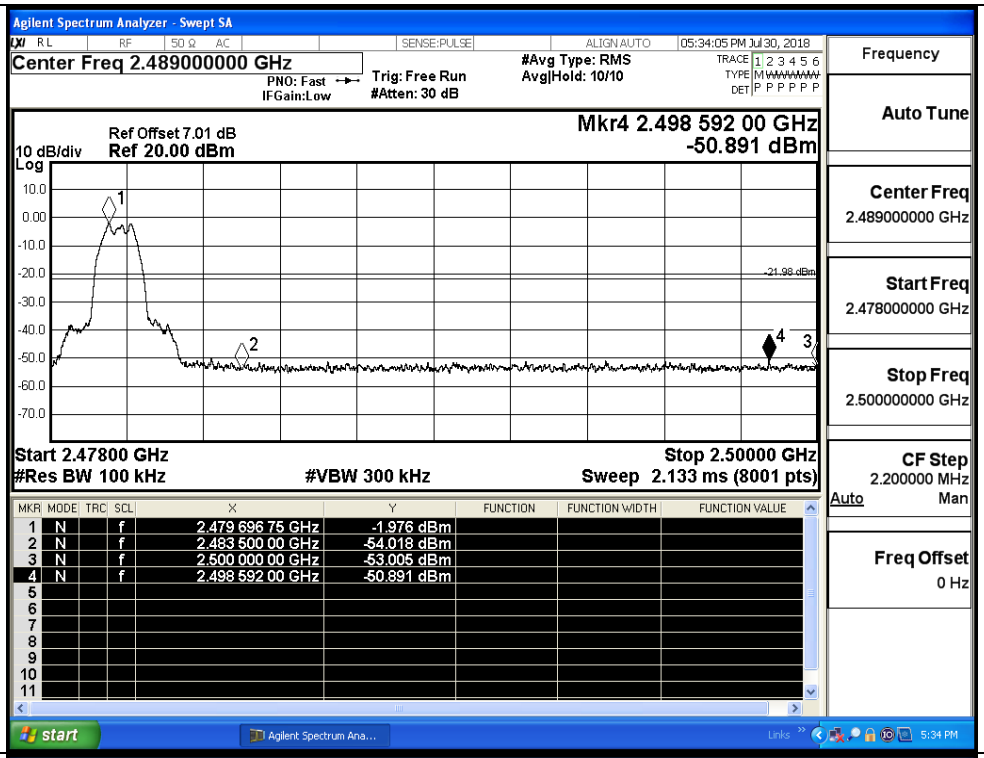
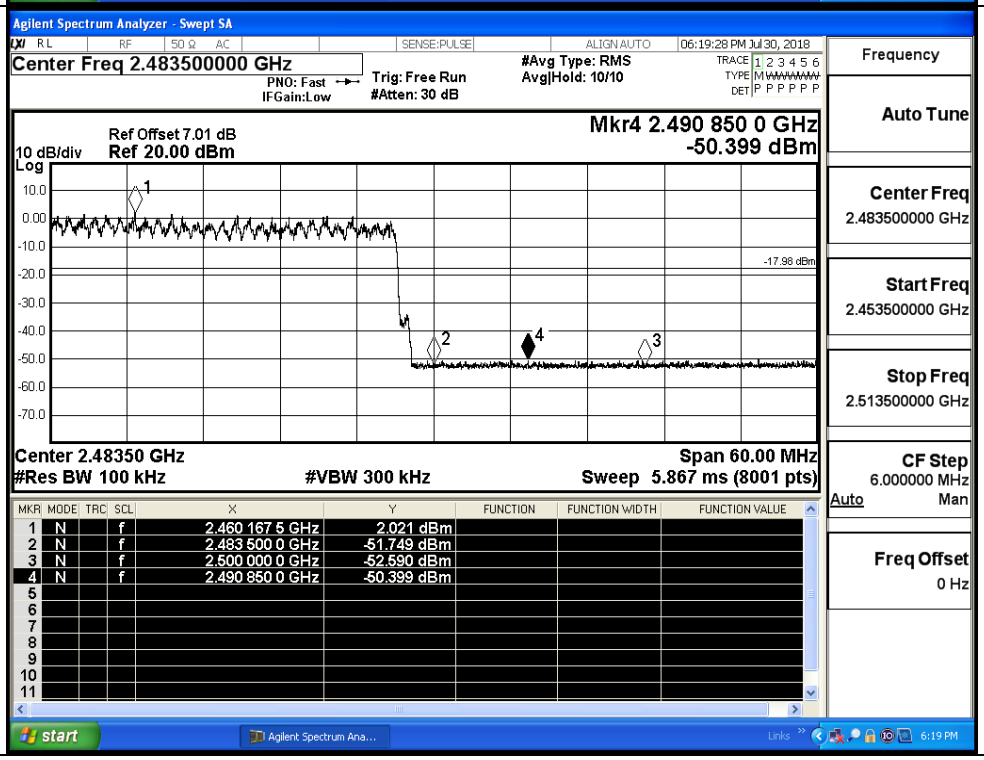
Test Graphs	
GFSK/LCH/No Hop	
GFSK/LCH/Hop	

GFSK/HCH/No Hop	
GFSK/HCH/Hop	

π/4DQPSK/LCH/No Hop	
π/4DQPSK/LCH/Hop	

π/4DQPSK/HCH/No Hop	
π/4DQPSK/HCH/Hop	

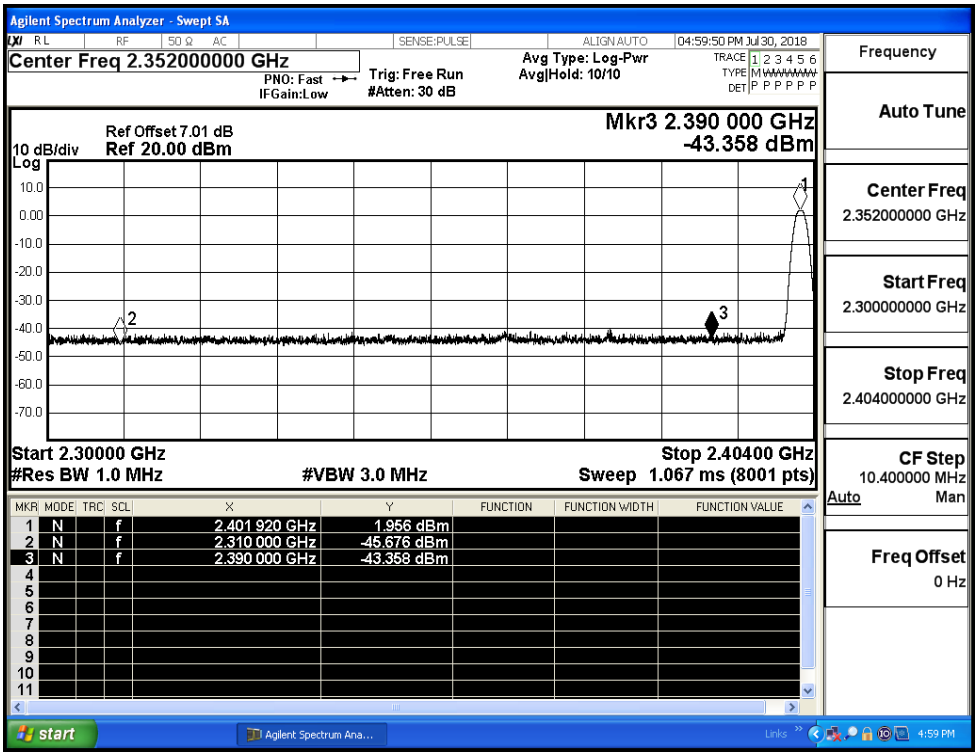
8DPSK/LCH/No Hop	
8DPSK/LCH/Hop	

8DPSK/HCH/No Hop	
8DPSK/HCH/Hop	

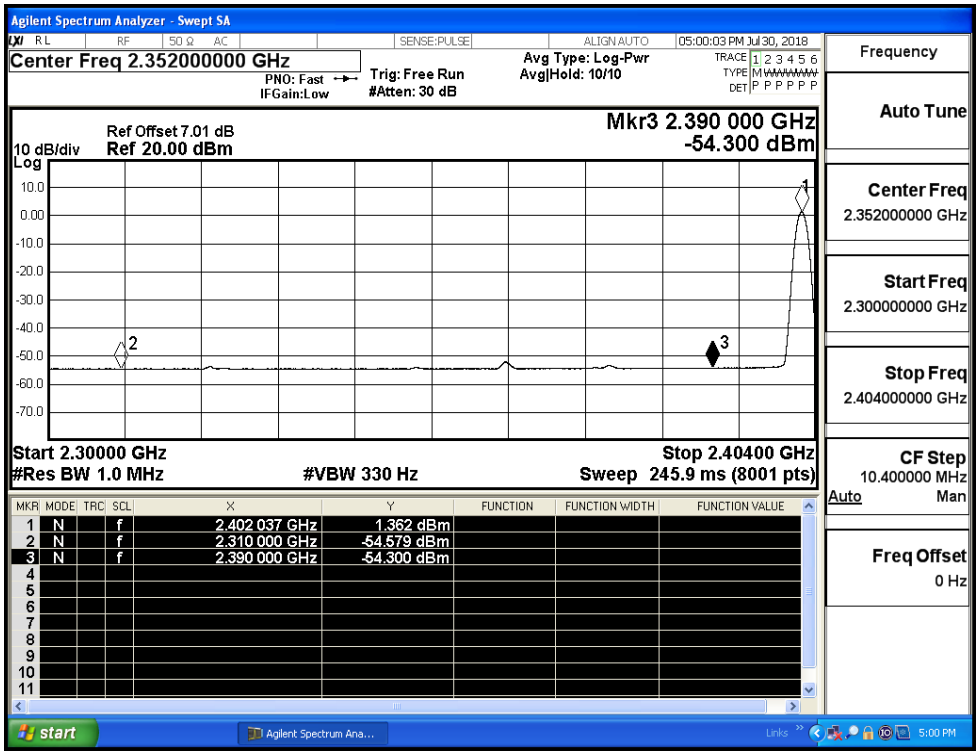
A.8 Restrict-band band-edge measurements

Test Mode	Hopping	Freq.	Power [dBm]	Gain	Ground Factor	E [dBuV/m]	Detector	Limit [dBuV/m]	Verdict
GFSK	Off	2310.0	-45.68	2.5	0	52.05	PEAK	74	PASS
	Off	2310.0	-54.58	2.5	0	43.15	AV	54	PASS
	Off	2390.0	-43.36	2.5	0	54.37	PEAK	74	PASS
	Off	2390.0	-54.30	2.5	0	43.43	AV	54	PASS
	Off	2483.5	-43.31	2.5	0	54.42	PEAK	74	PASS
	Off	2483.5	-53.79	2.5	0	43.94	AV	54	PASS
	Off	2500.0	-44.64	2.5	0	53.09	PEAK	74	PASS
	Off	2500.0	-54.02	2.5	0	43.71	AV	54	PASS
π/4DQPSK	Off	2310.0	-41.46	2.5	0	56.27	PEAK	74	PASS
	Off	2310.0	-54.51	2.5	0	43.22	AV	54	PASS
	Off	2390.0	-43.48	2.5	0	54.25	PEAK	74	PASS
	Off	2390.0	-54.26	2.5	0	43.47	AV	54	PASS
	Off	2483.5	-43.38	2.5	0	54.35	PEAK	74	PASS
	Off	2483.5	-53.76	2.5	0	43.97	AV	54	PASS
	Off	2500.0	-44.78	2.5	0	52.95	PEAK	74	PASS
	Off	2500.0	-53.97	2.5	0	43.76	AV	54	PASS
8DPSK	Off	2310.0	-42.36	2.5	0	55.37	PEAK	74	PASS
	Off	2310.0	-54.68	2.5	0	43.05	AV	54	PASS
	Off	2390.0	-43.65	2.5	0	54.08	PEAK	74	PASS
	Off	2390.0	-54.32	2.5	0	43.41	AV	54	PASS
	Off	2483.5	-44.46	2.5	0	53.27	PEAK	74	PASS
	Off	2483.5	-53.72	2.5	0	44.01	AV	54	PASS
	Off	2500.0	-45.31	2.5	0	52.42	PEAK	74	PASS
	Off	2500.0	-53.97	2.5	0	43.76	AV	54	PASS

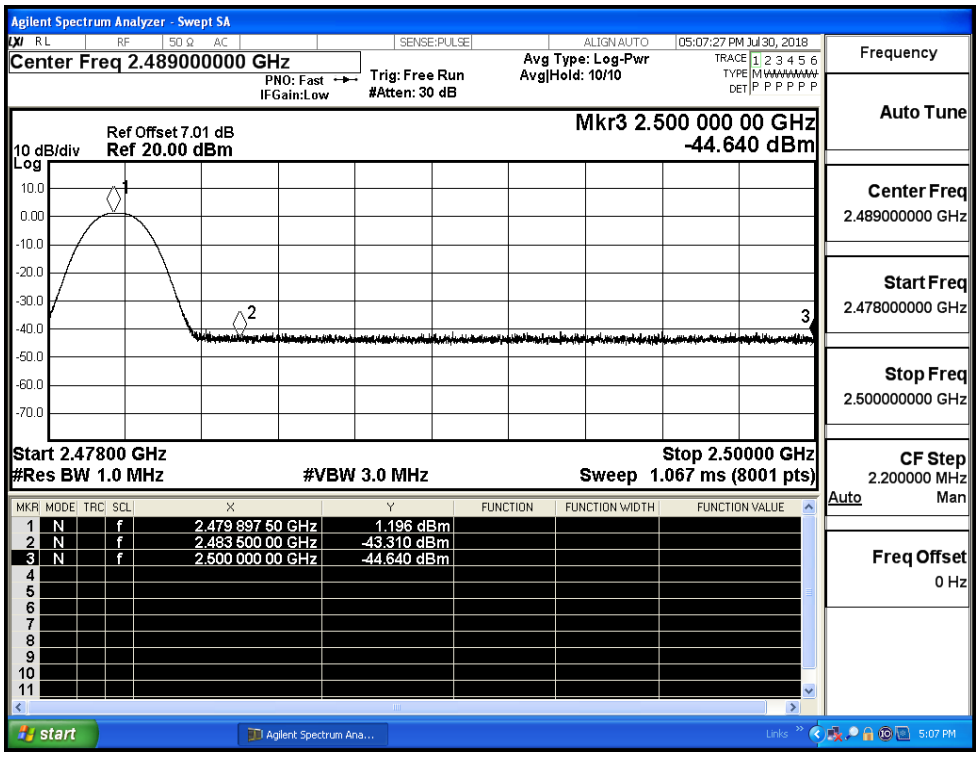
Restrict-band band-edge measurements_Hopping Off_ GFSK_PEAK (Low Channel)



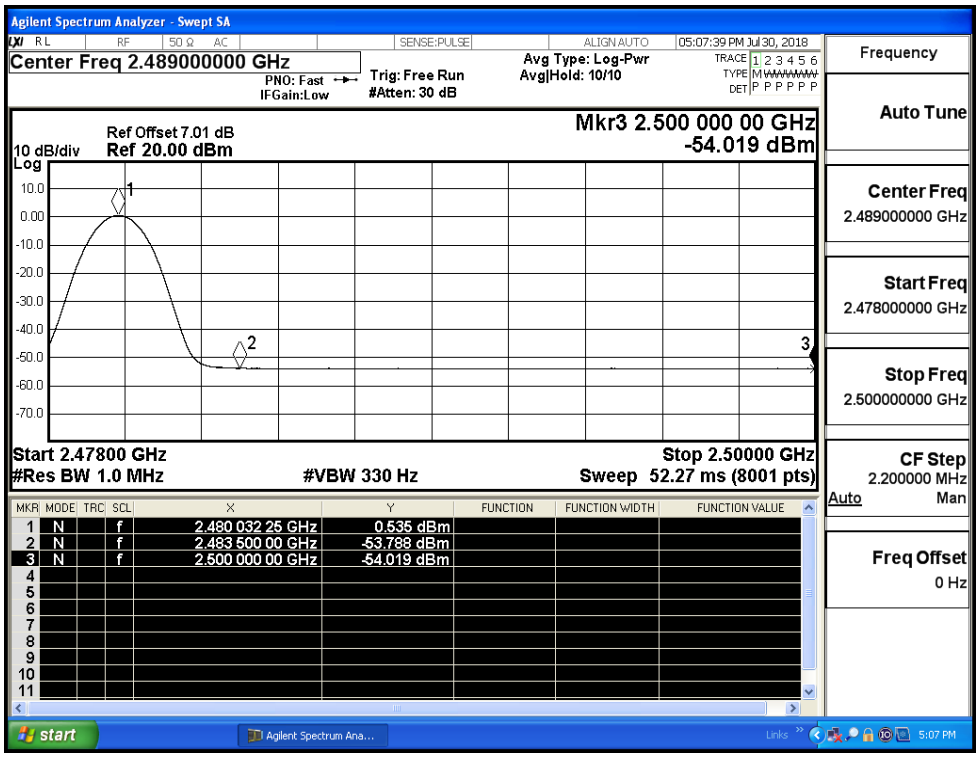
Restrict-band band-edge measurements_Hopping Off_ GFSK_Average (Low Channel)



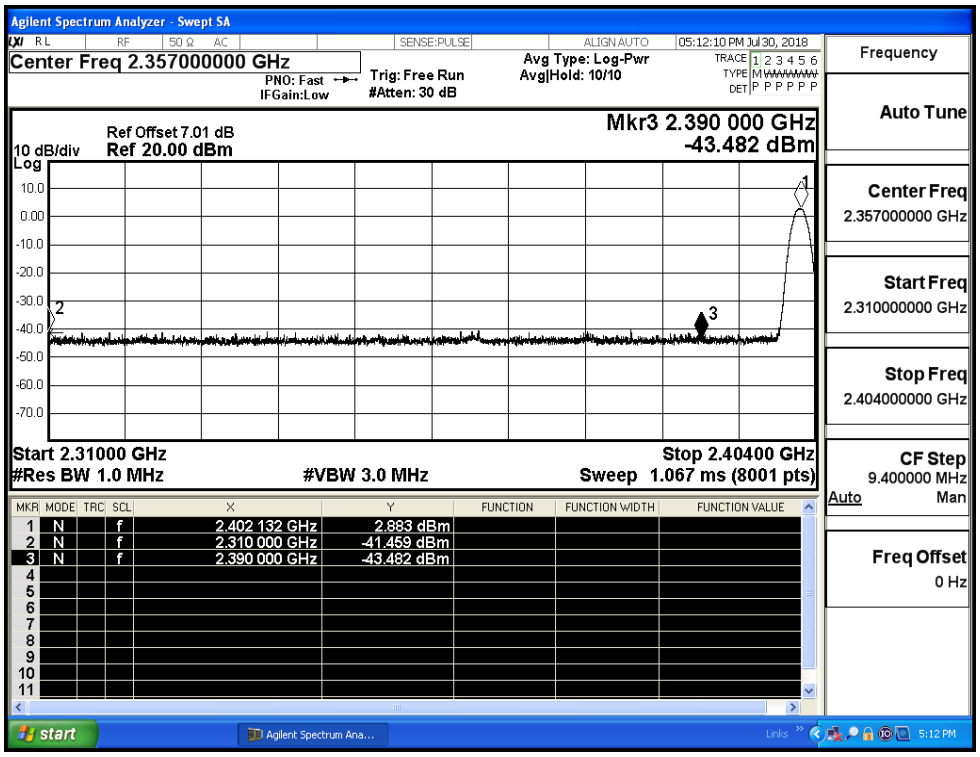
Restrict-band band-edge measurements_Hopping Off_ GFSK_PEAK (High Channel)



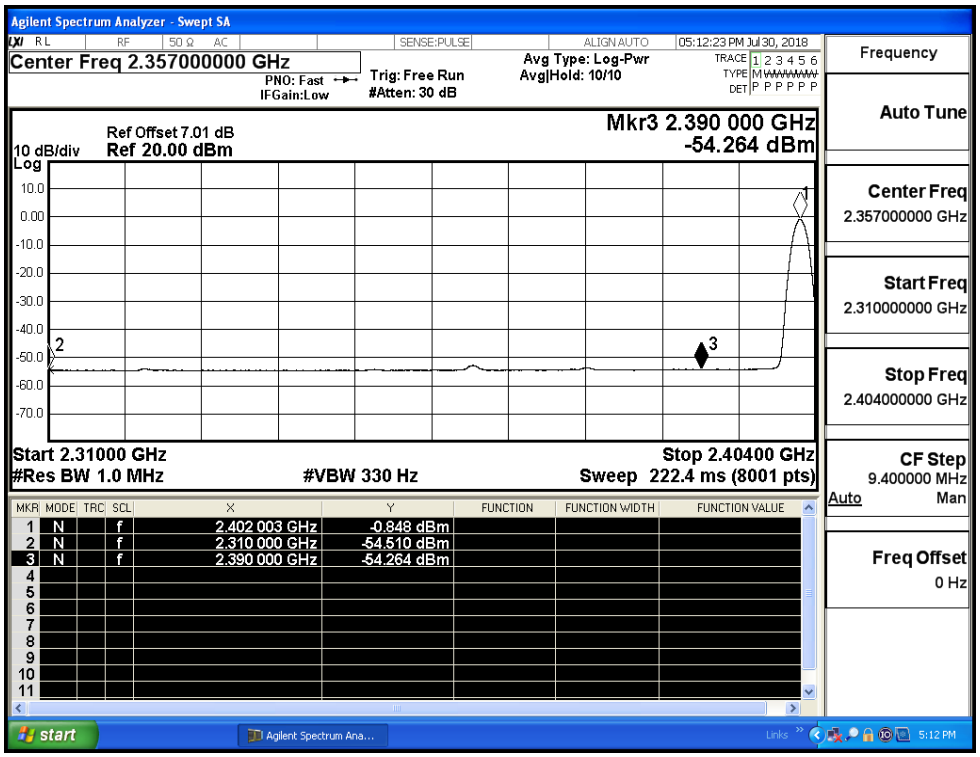
Restrict-band band-edge measurements_Hopping Off_ GFSK_Average (High Channel)



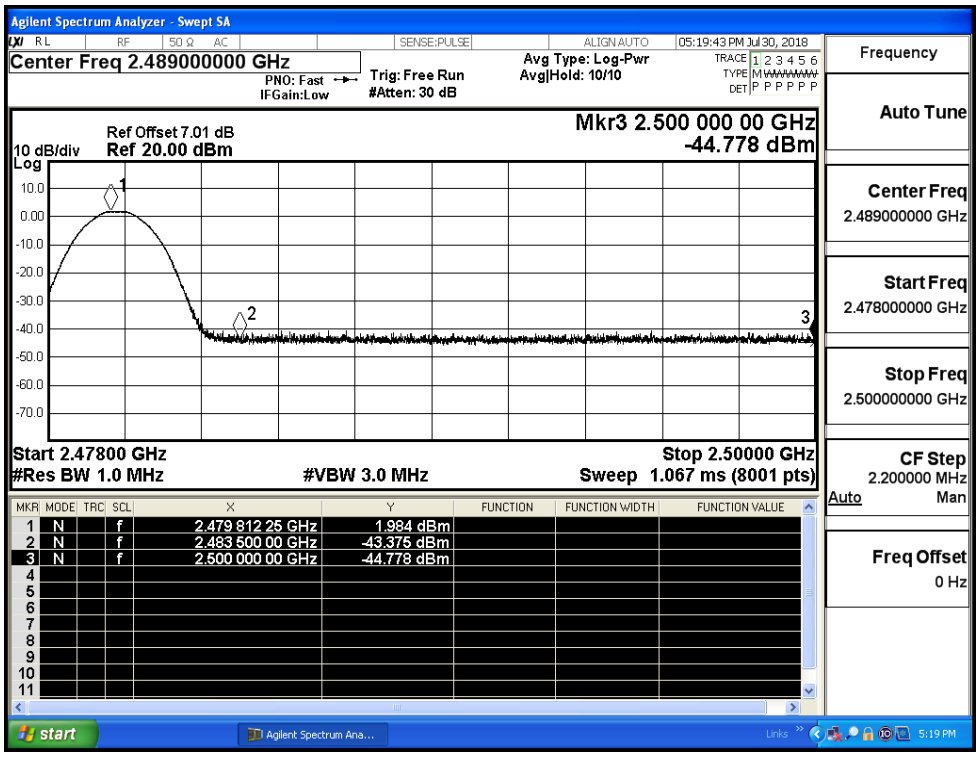
Restrict-band band-edge measurements_Hopping Off_π/4-DQPSK_PEAK (Low Channel)



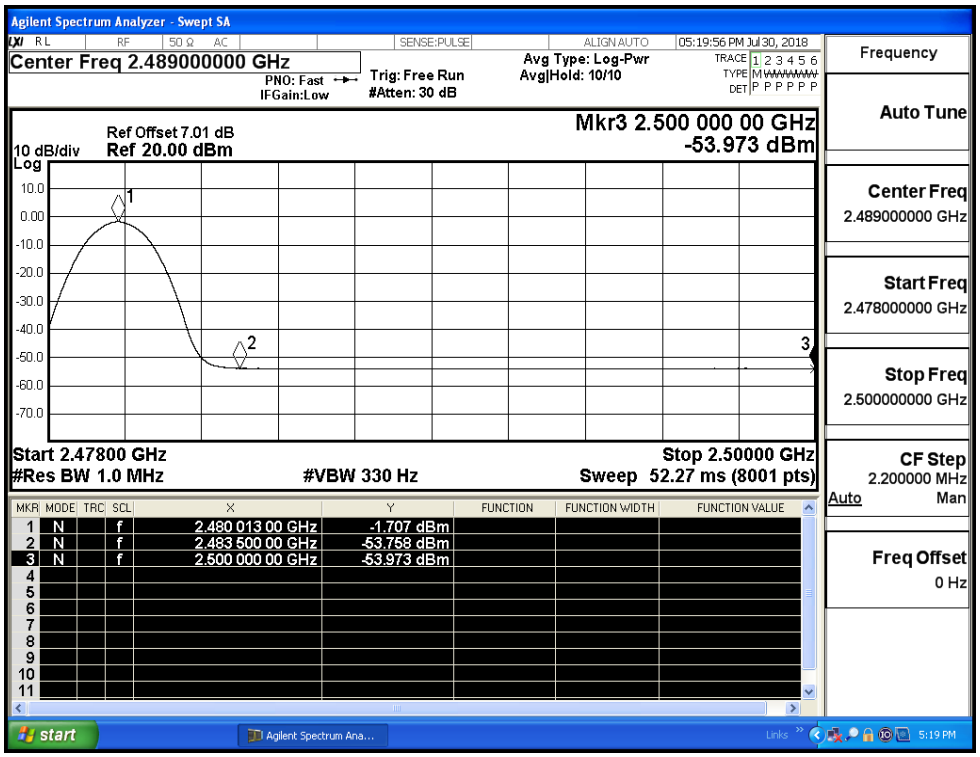
Restrict-band band-edge measurements_Hopping Off_π/4-DQPSK_Average (Low Channel)



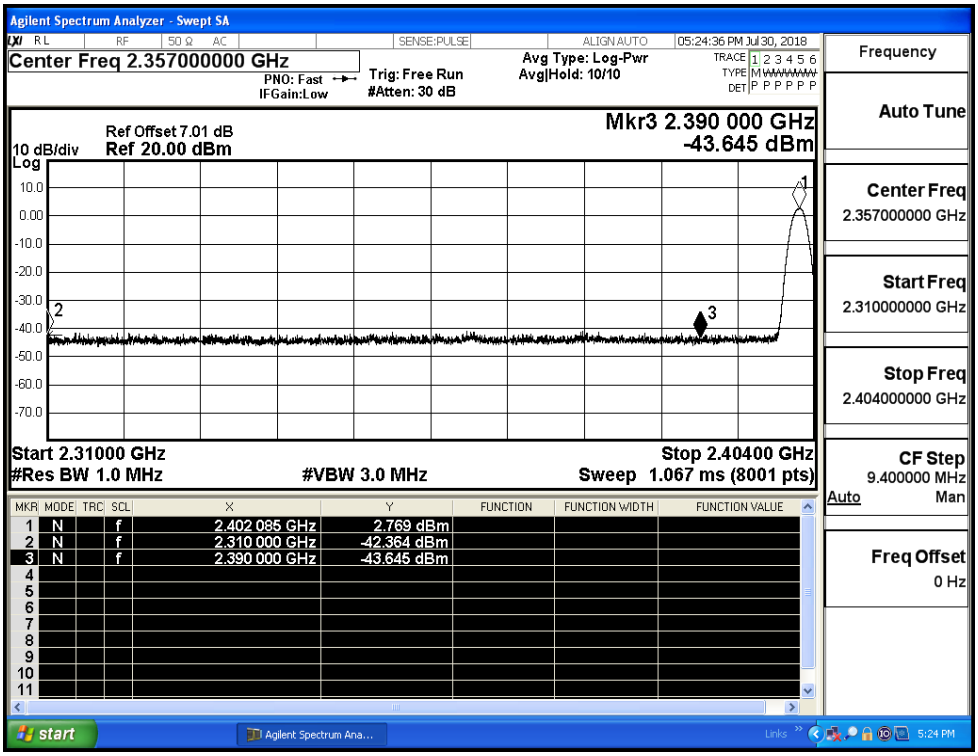
Restrict-band band-edge measurements_Hopping Off_π/4-DQPSK_PEAK (High Channel)



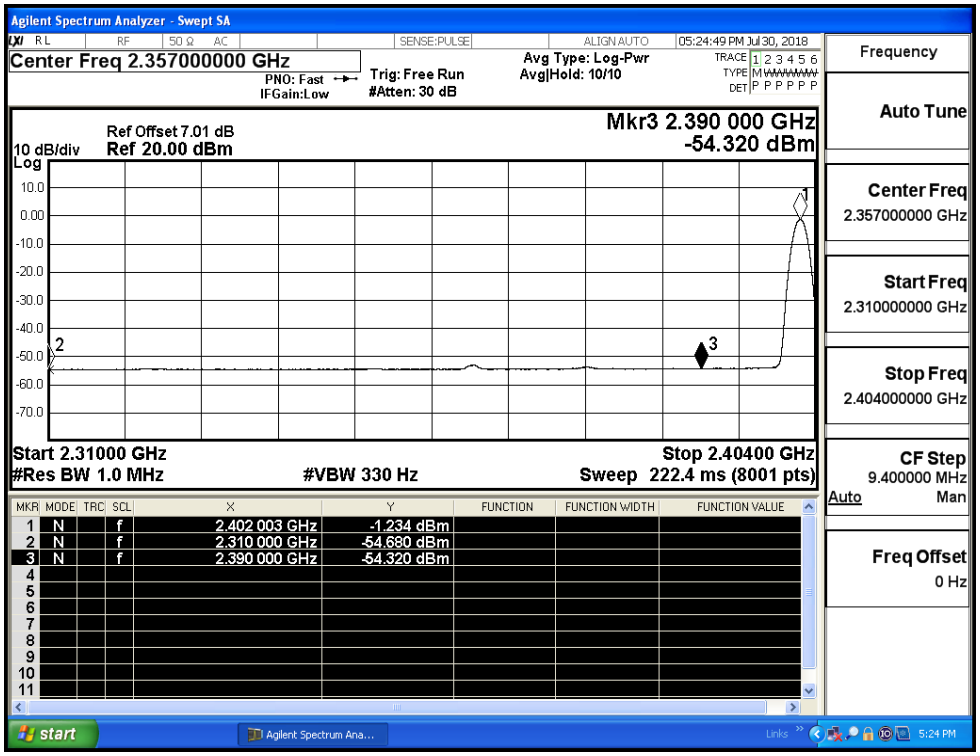
Restrict-band band-edge measurements_Hopping Off_π/4-DQPSK_Average (High Channel)



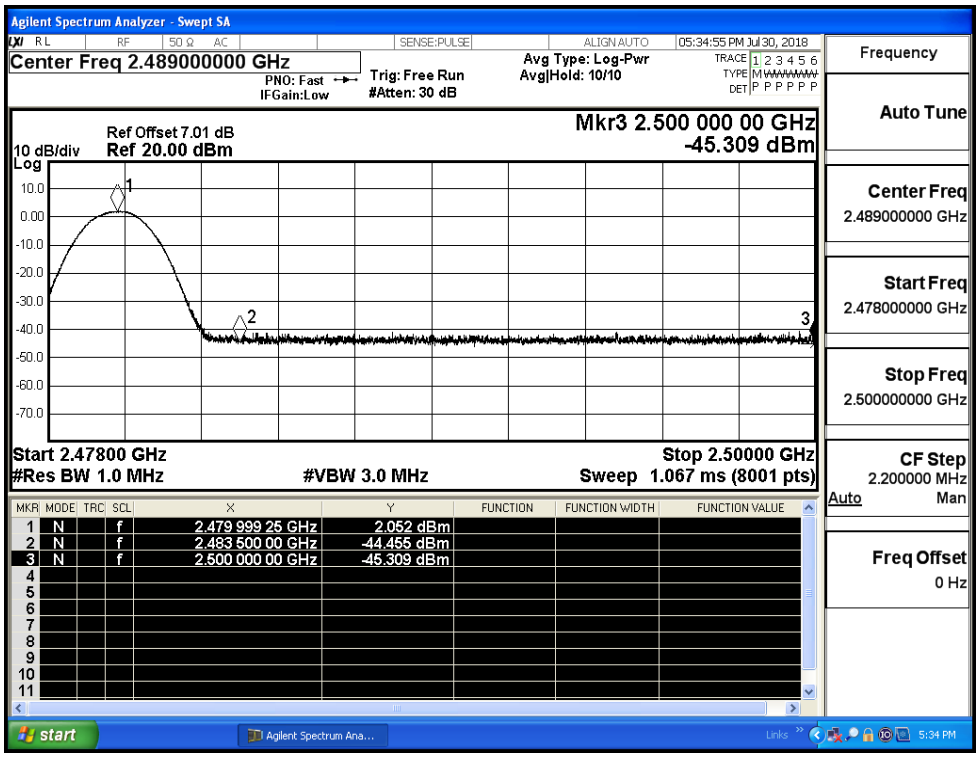
Restrict-band band-edge measurements_Hopping Off_8DPSK_PEAK (Low Channel)



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)