

Appendix A

RF Test Data for BT V4.1(BDR/EDR) (Conducted Measurement)

Product Name: Jays q-Seven Wireless

Trade Mark: JAYS

Test Model: Q7W01

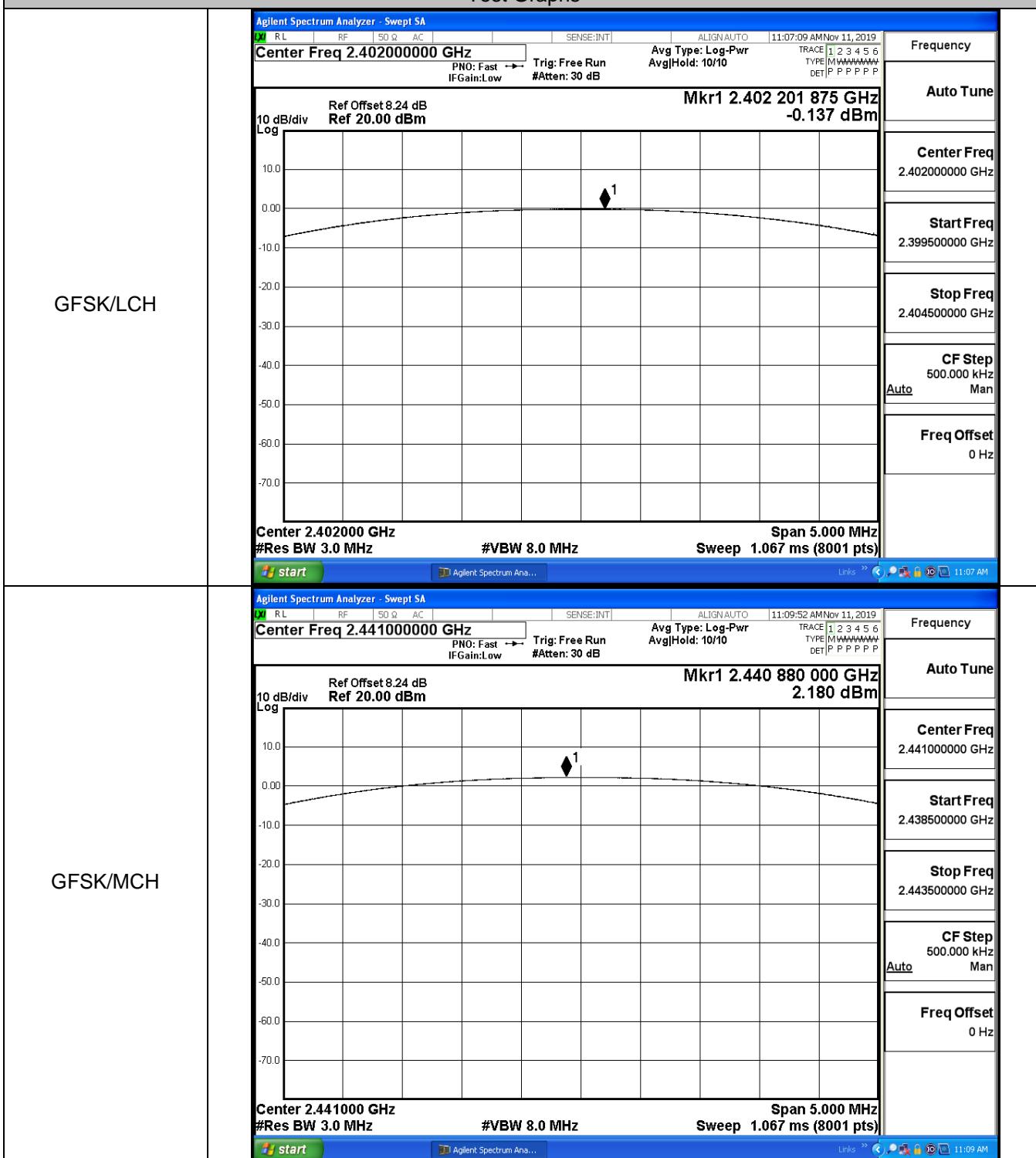
Environmental Conditions

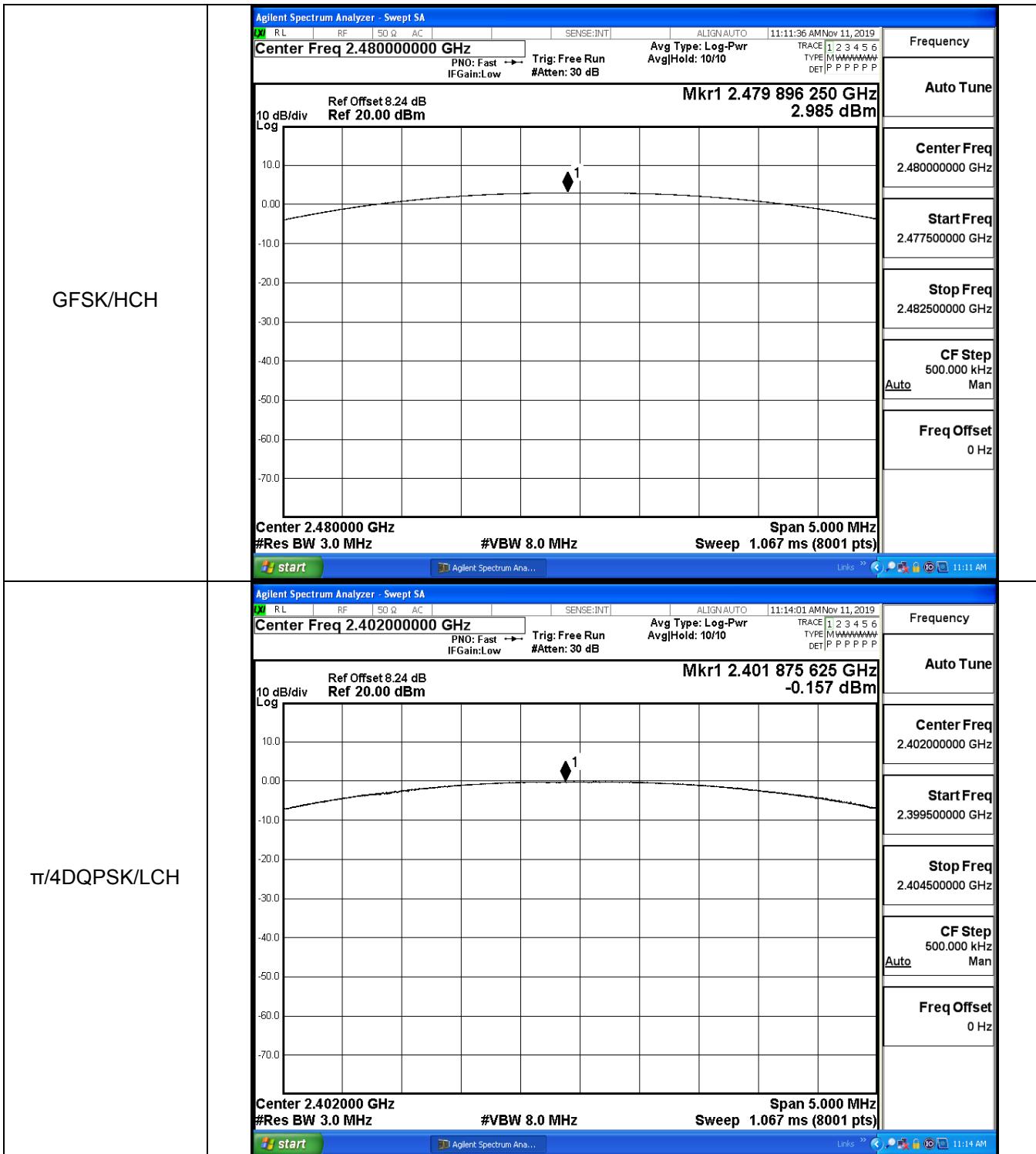
Temperature:	22.8 ° C
Relative Humidity:	53.4%
ATM Pressure:	100.0 kPa
Test Engineer:	Jk Zhou
Supervised by:	Tom.Liu

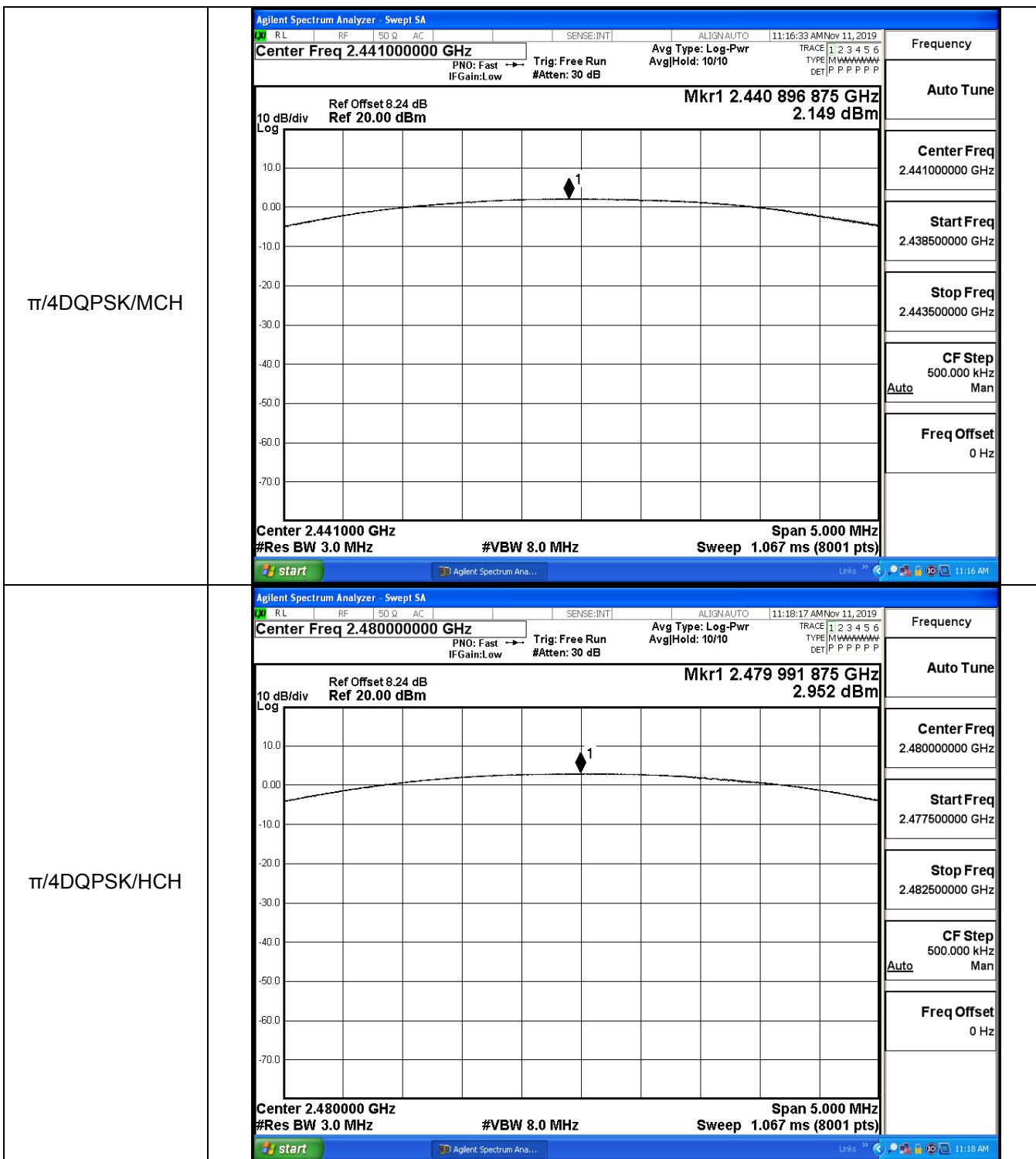
A.1 Maximum Conducted Peak Output Power

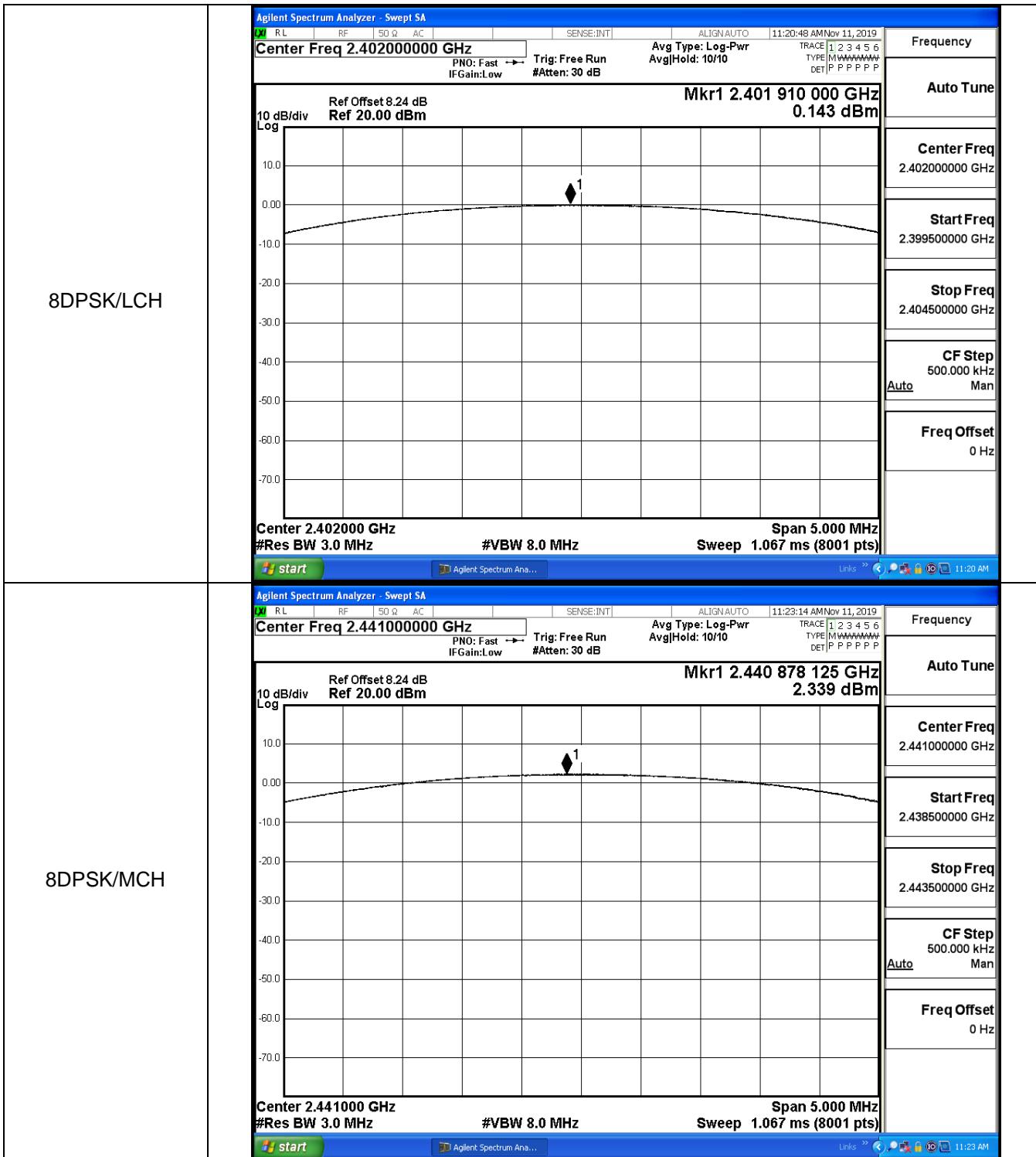
Mode	Channel.	Maximum Peak Output Power [dBm]	Limit [dBm]	Verdict
GFSK	LCH	-0.137	21	PASS
	MCH	2.180	21	PASS
	HCH	2.985	21	PASS
$\pi/4$ DQPSK	LCH	-0.157	21	PASS
	MCH	2.149	21	PASS
	HCH	2.952	21	PASS
8DPSK	LCH	0.143	21	PASS
	MCH	2.339	21	PASS
	HCH	4.406	21	PASS

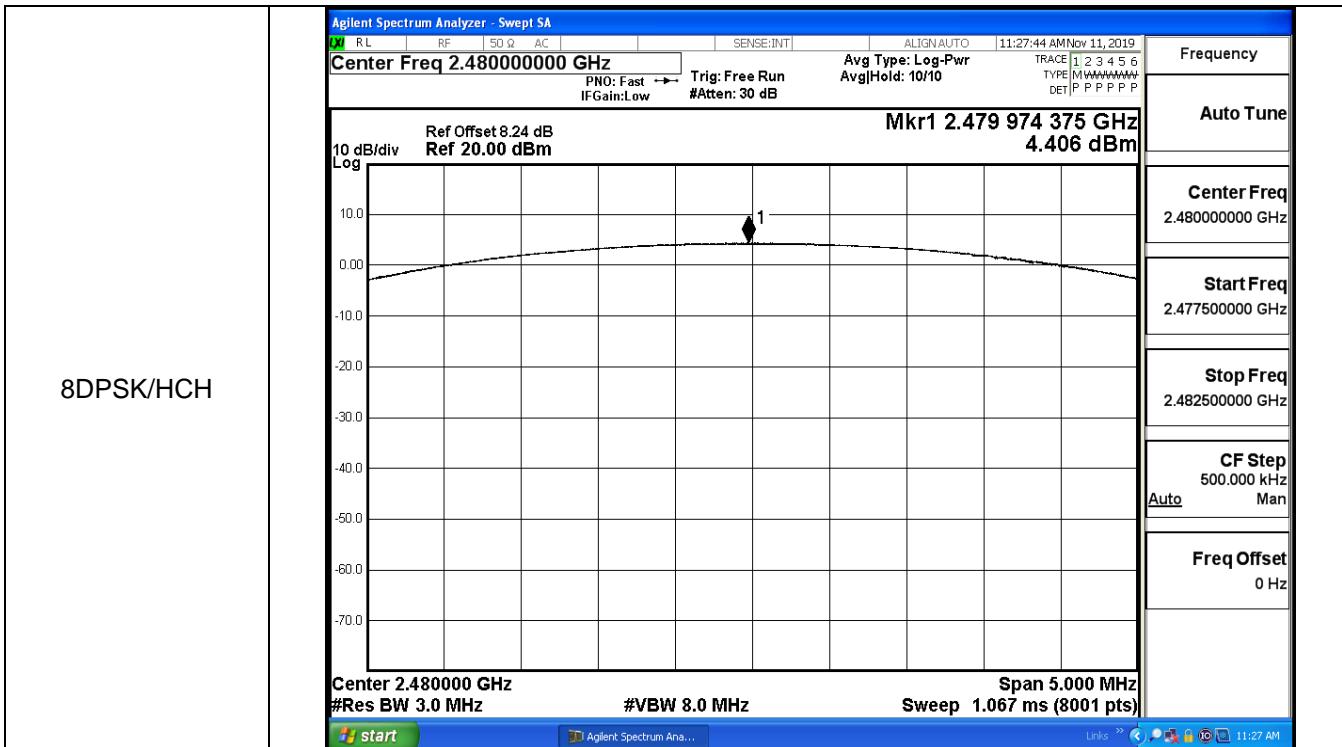
Test Graphs





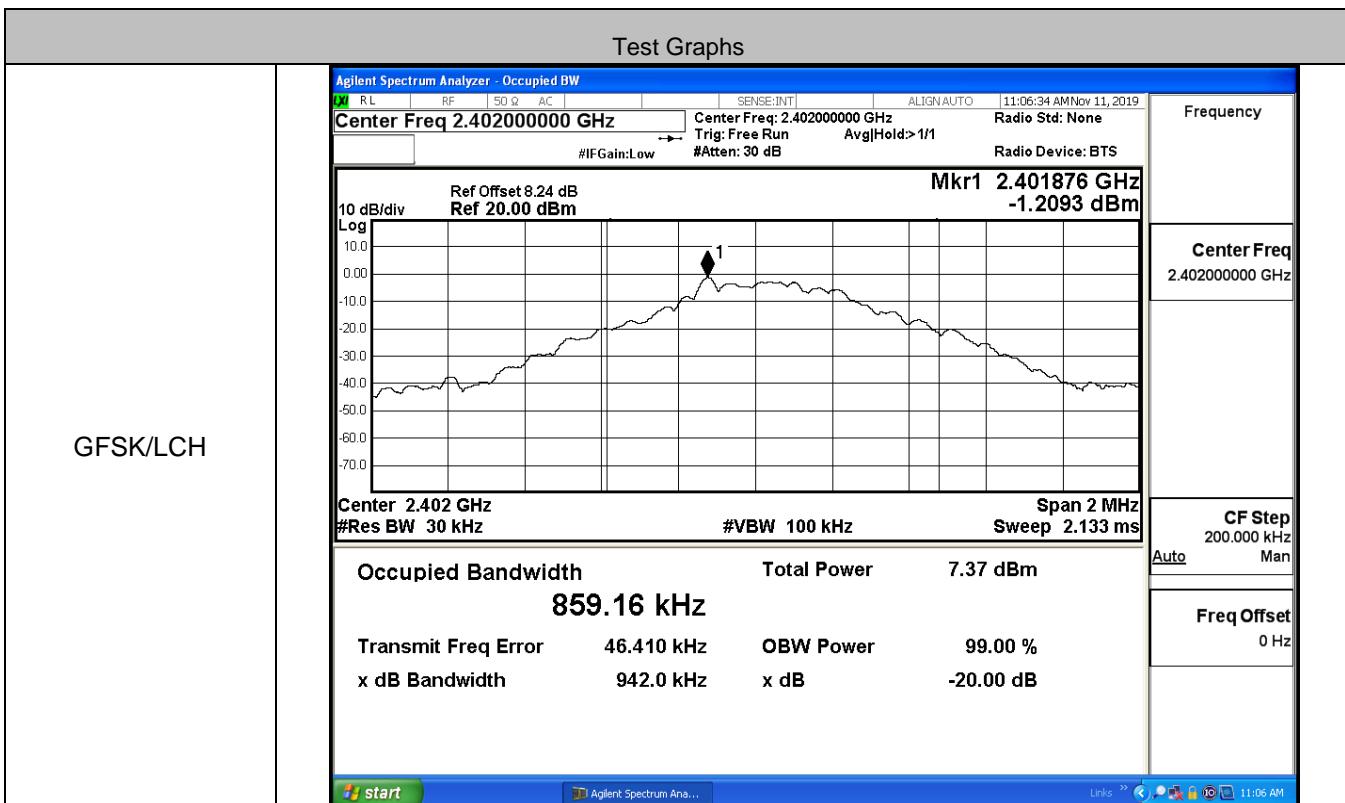


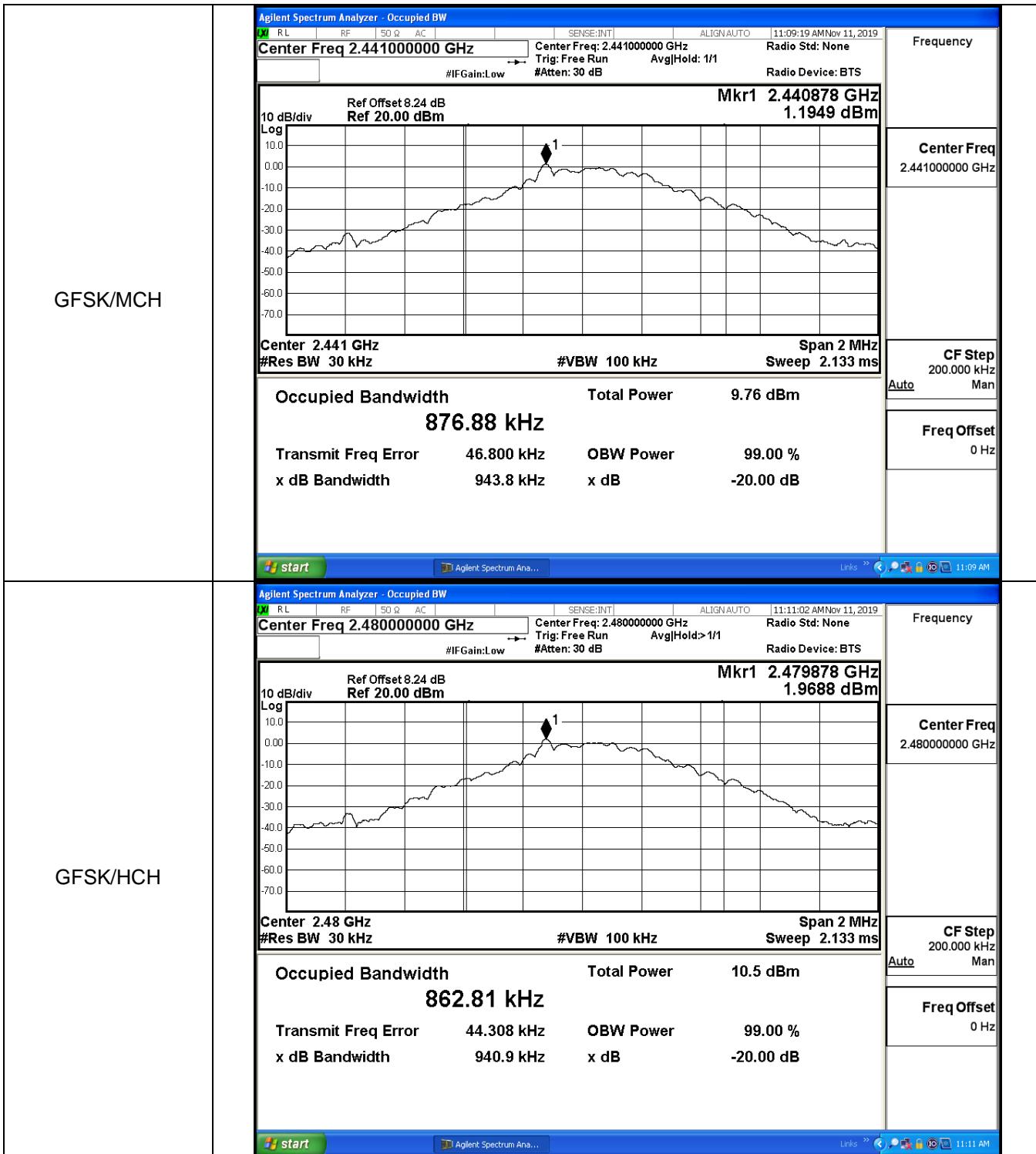


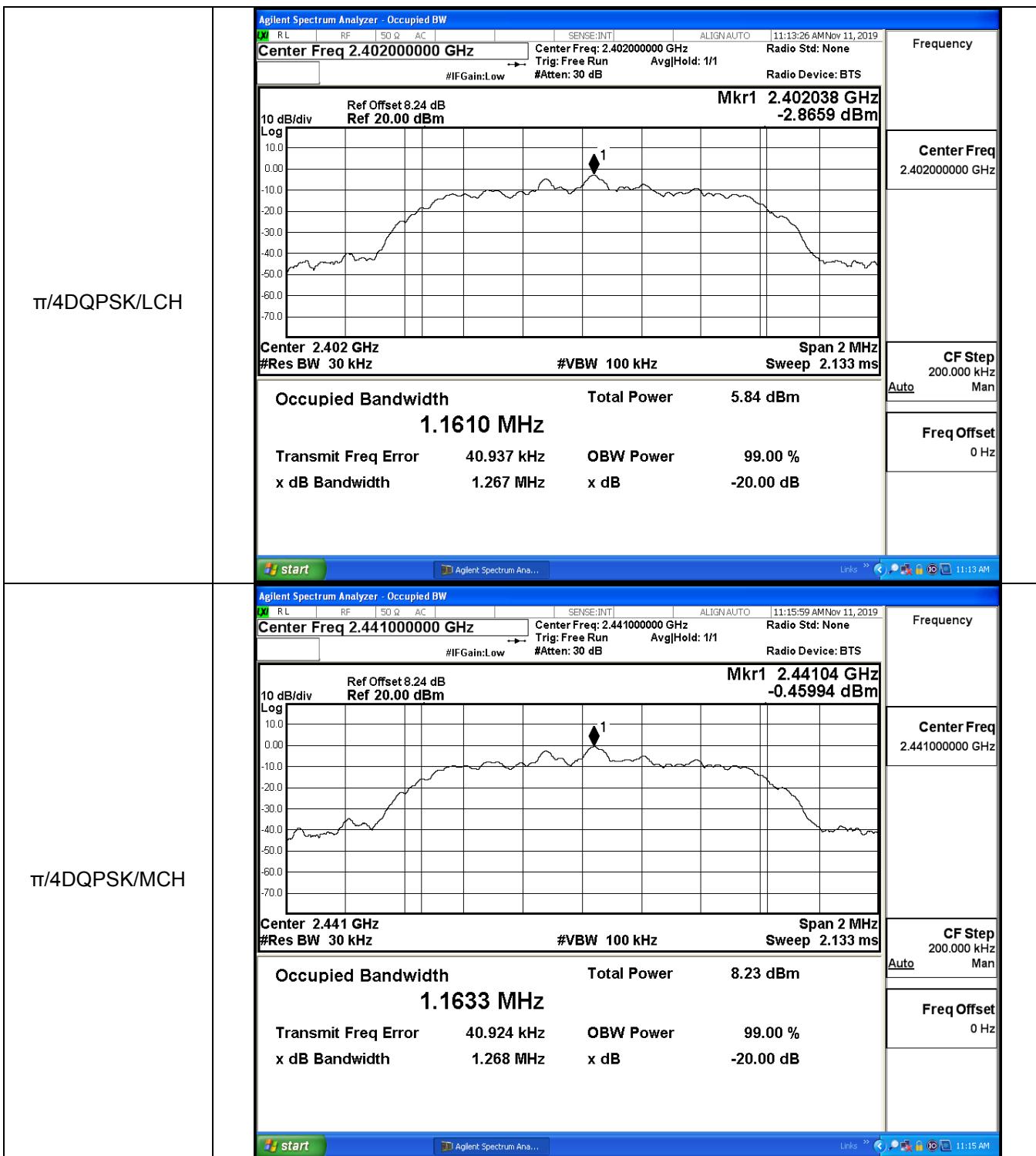


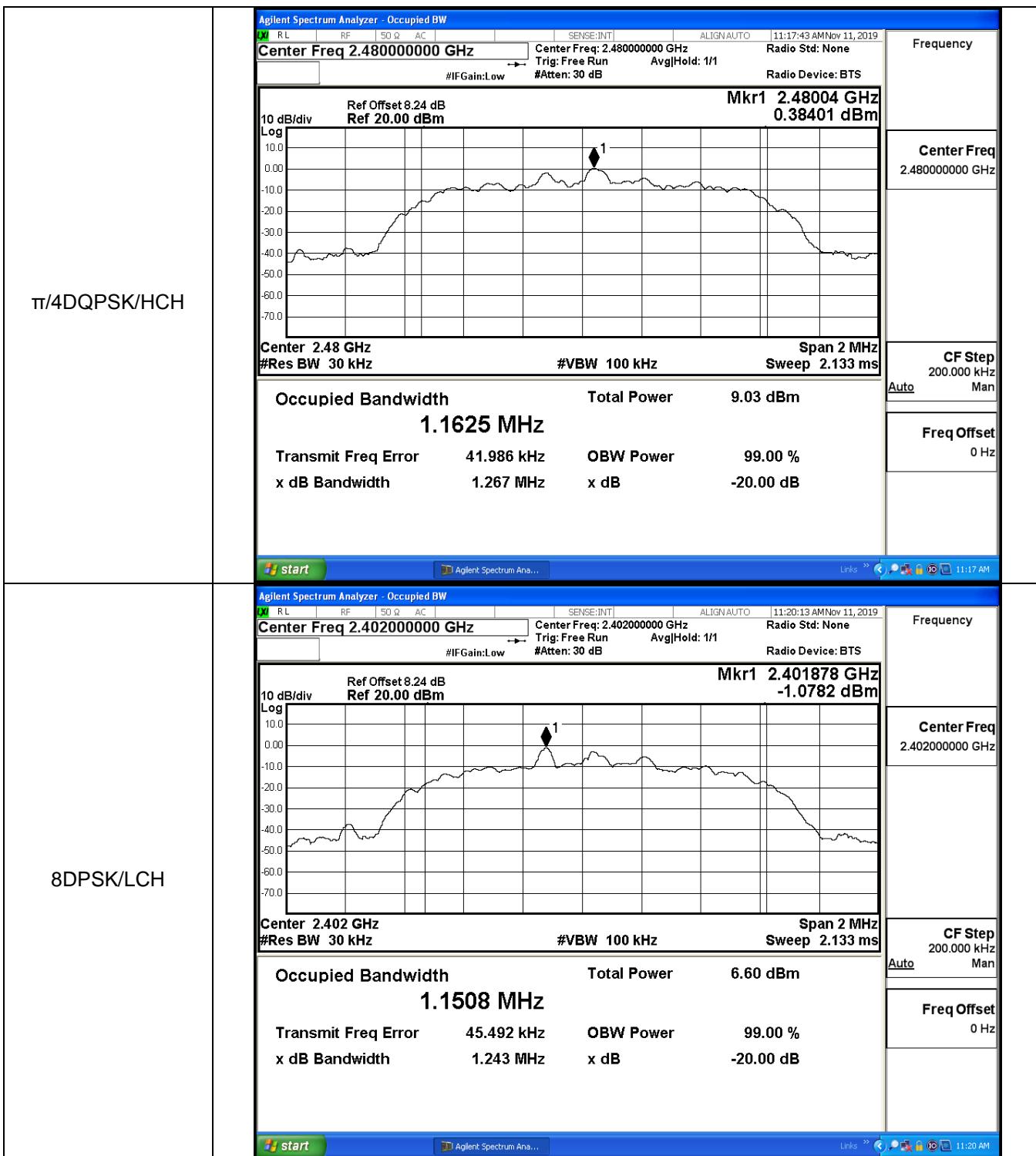
A.2 20dB Bandwidth

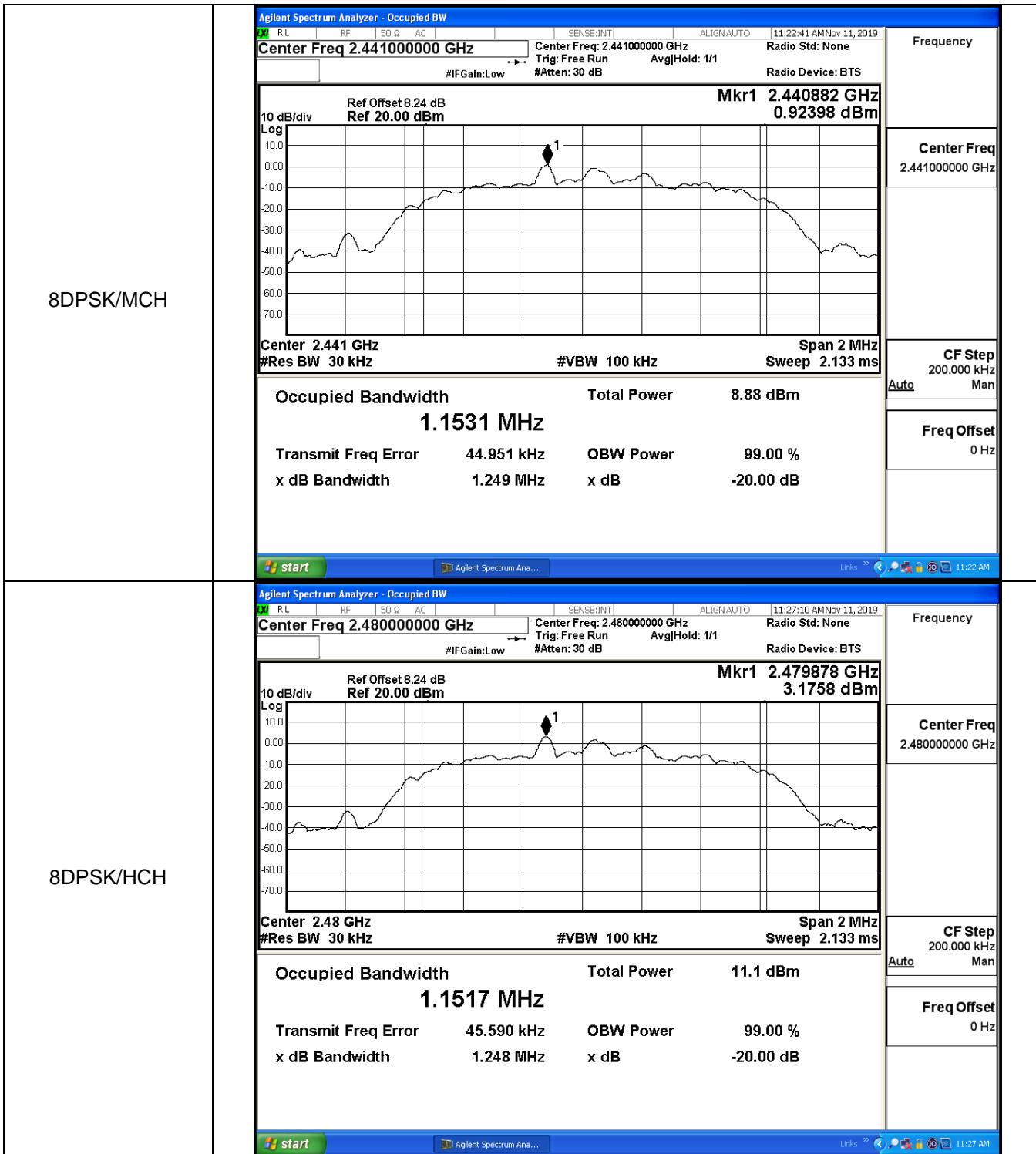
Mode	Channel.	20dB Bandwidth [MHz]	Limit [MHz]	Verdict
GFSK	LCH	0.9420	Not Specified	PASS
	MCH	0.9438	Not Specified	PASS
	HCH	0.9409	Not Specified	PASS
$\pi/4$ DQPSK	LCH	1.267	Not Specified	PASS
	MCH	1.268	Not Specified	PASS
	HCH	1.267	Not Specified	PASS
8DPSK	LCH	1.243	Not Specified	PASS
	MCH	1.249	Not Specified	PASS
	HCH	1.248	Not Specified	PASS





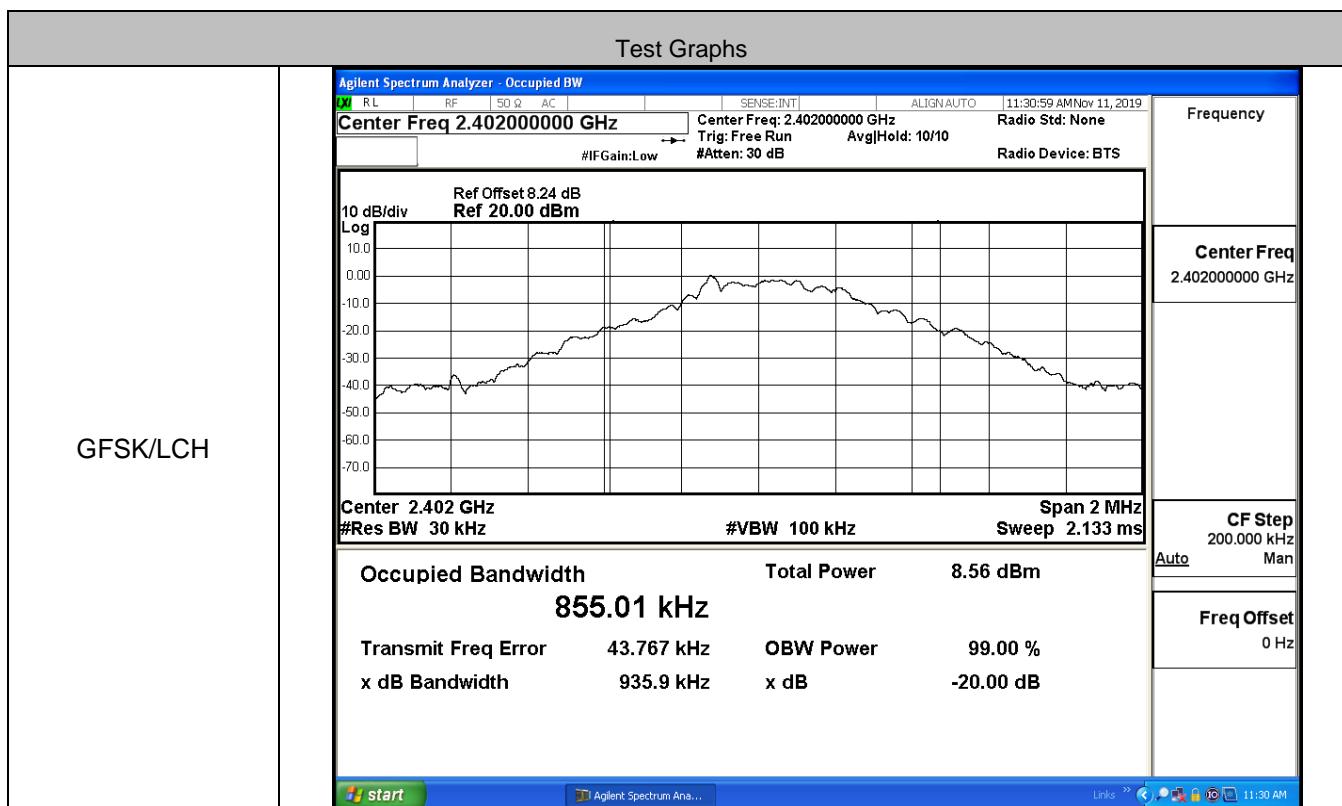


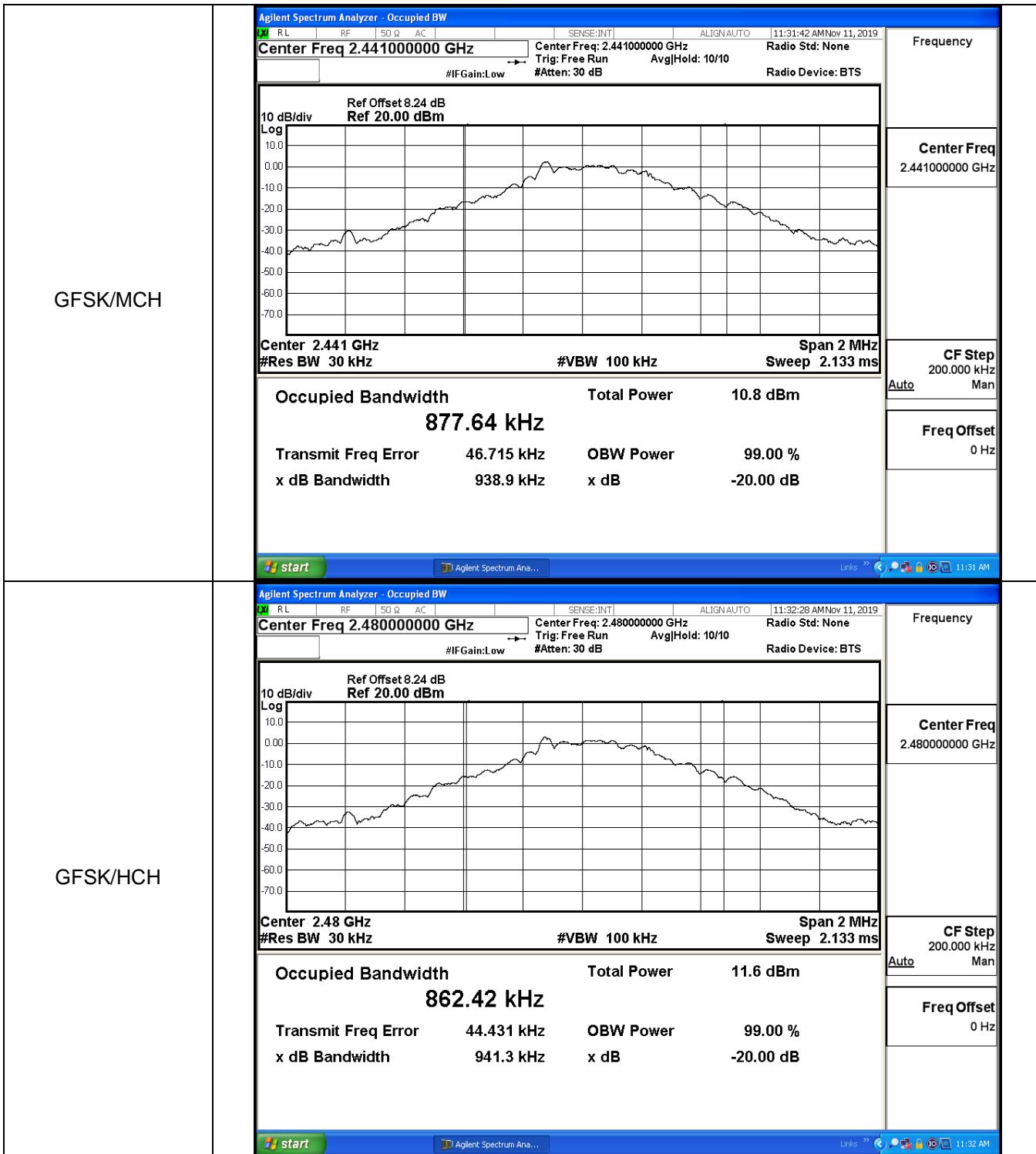


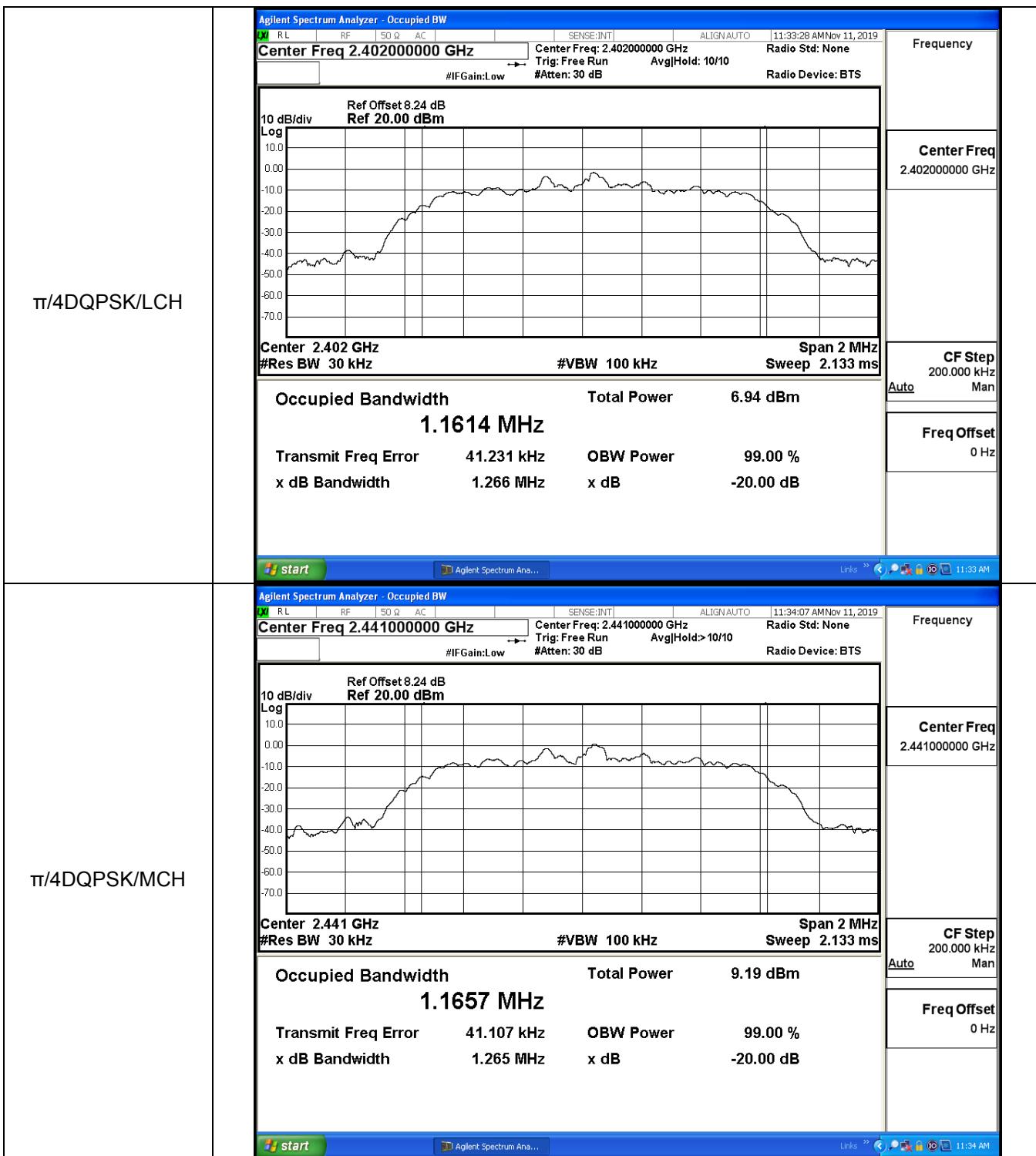


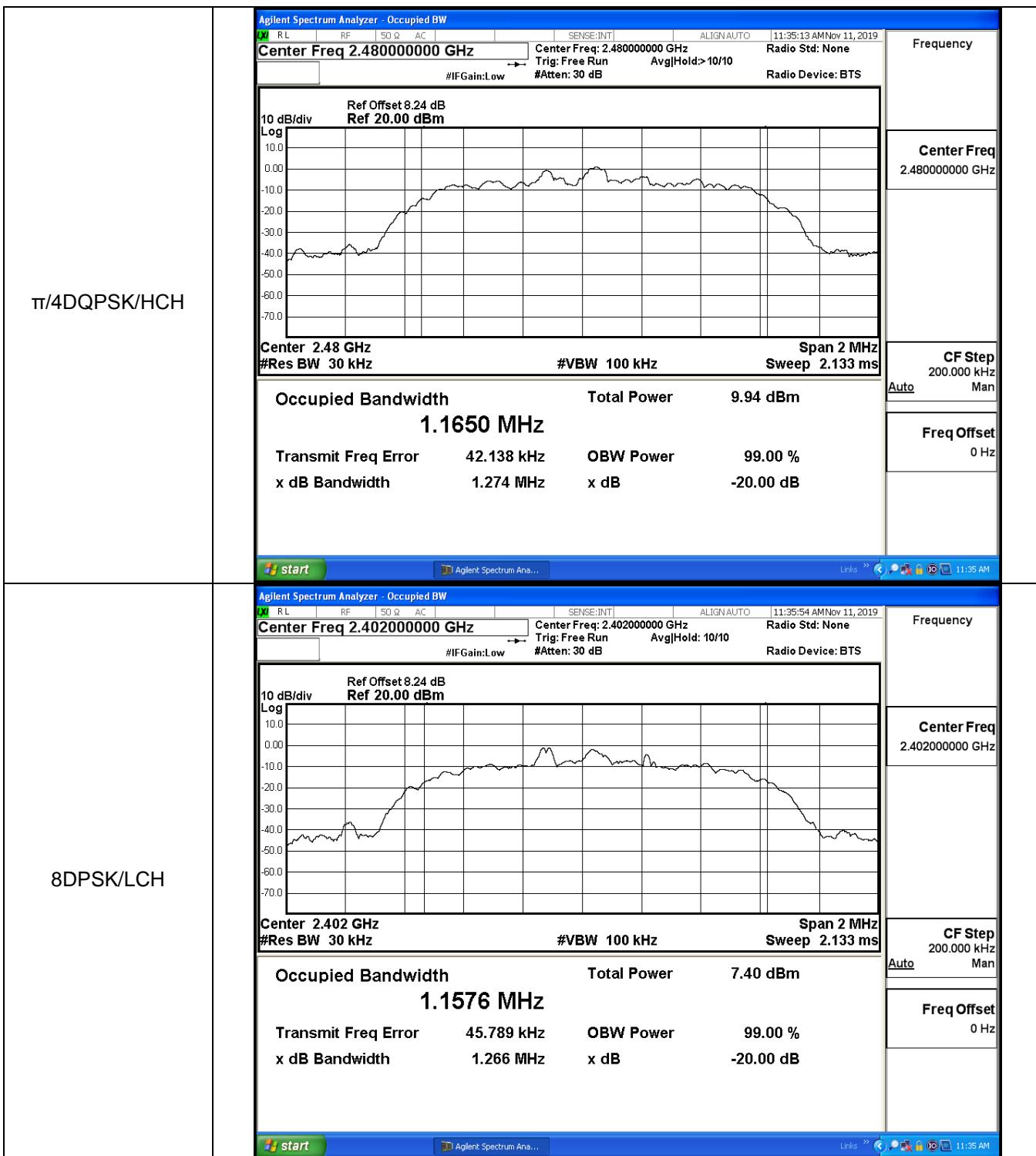
A.3 Occupied Bandwidth

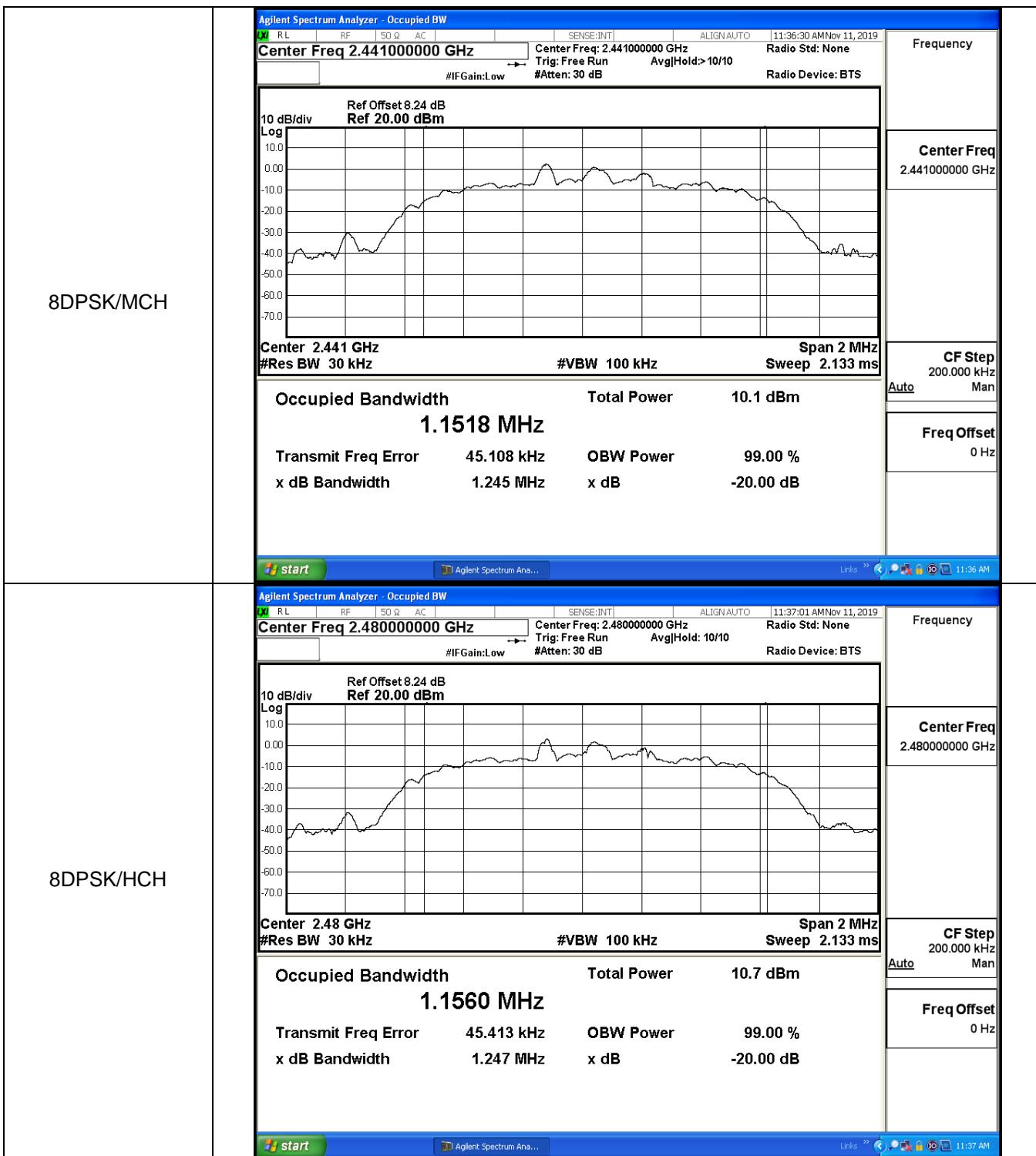
Mode	Channel.	Occupied Bandwidth [MHz]	Limit [MHz]	Verdict
GFSK	LCH	0.85501	Not Specified	PASS
	MCH	0.87764	Not Specified	PASS
	HCH	0.86242	Not Specified	PASS
$\pi/4$ DQPSK	LCH	1.1614	Not Specified	PASS
	MCH	1.1657	Not Specified	PASS
	HCH	1.1650	Not Specified	PASS
8DPSK	LCH	1.1576	Not Specified	PASS
	MCH	1.1518	Not Specified	PASS
	HCH	1.1560	Not Specified	PASS







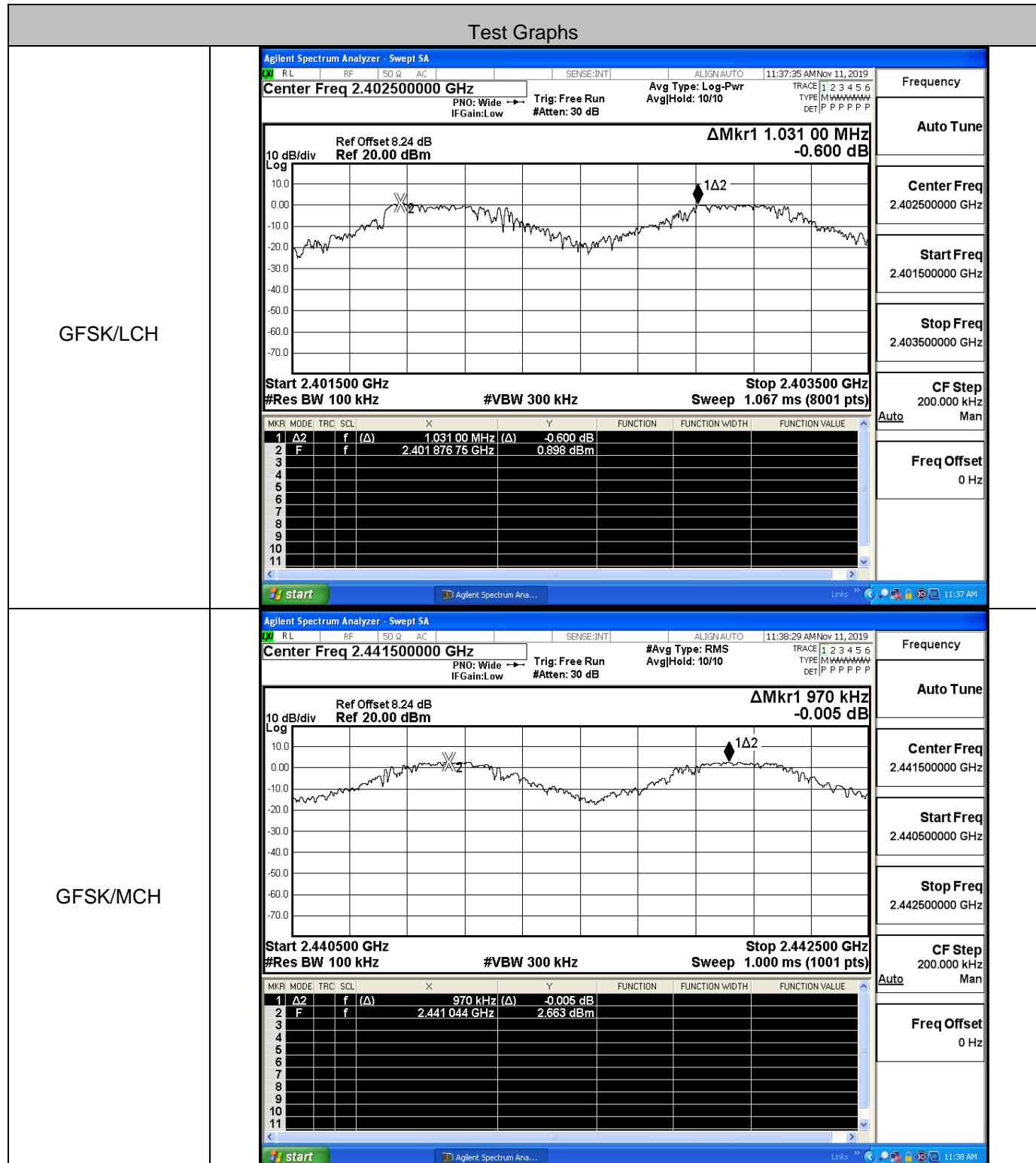


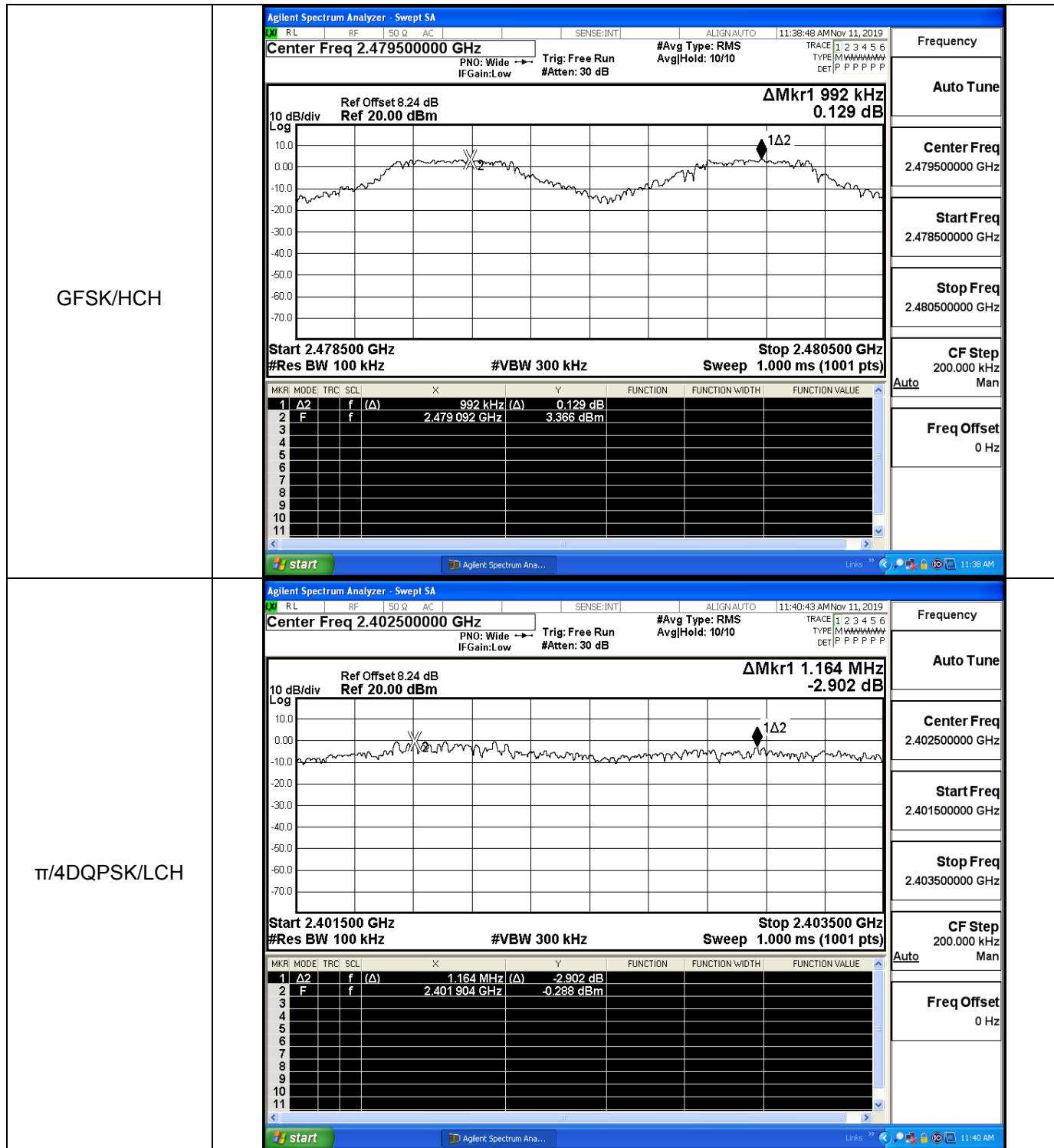


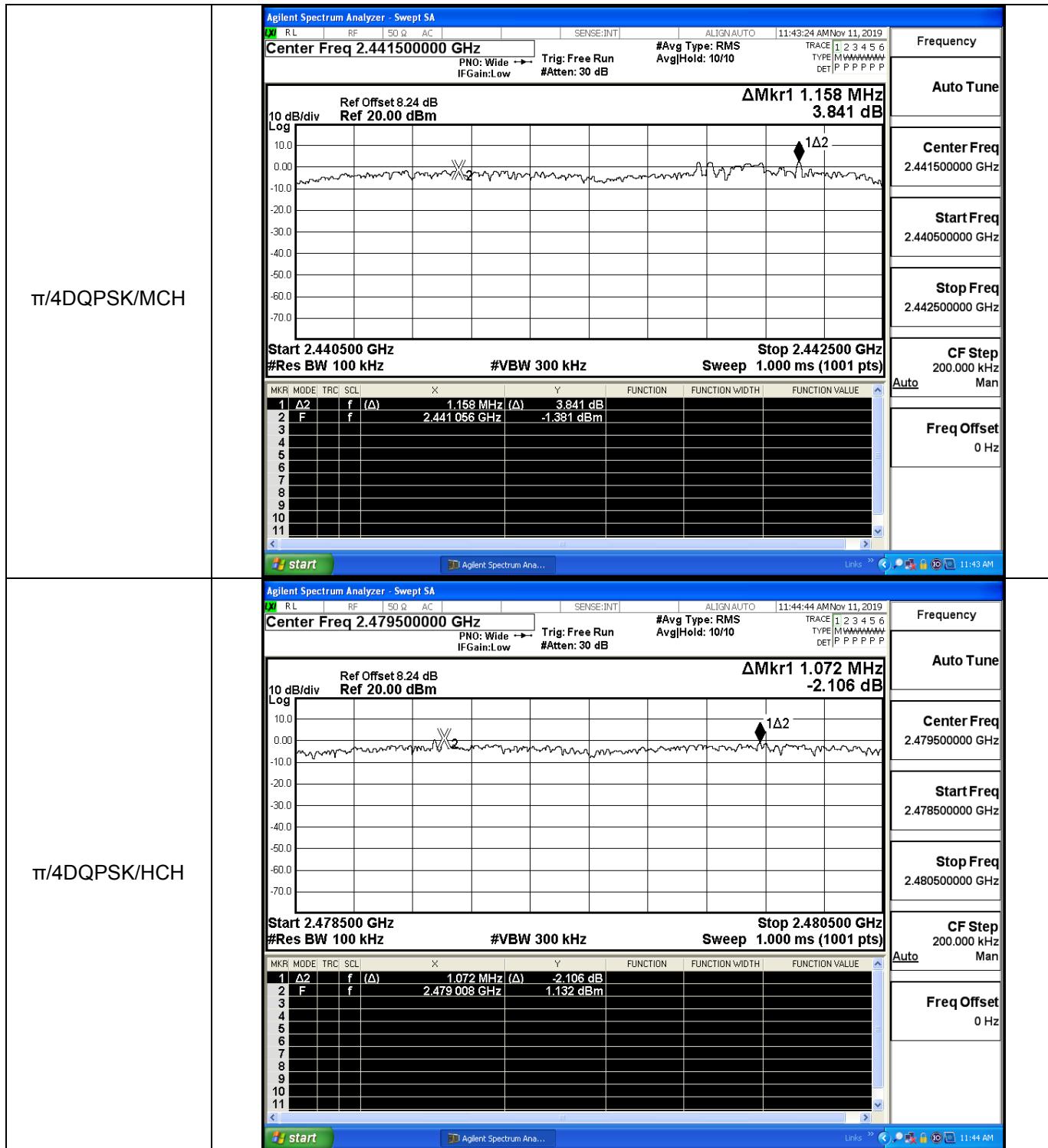
A.4 Carrier Frequency Separation

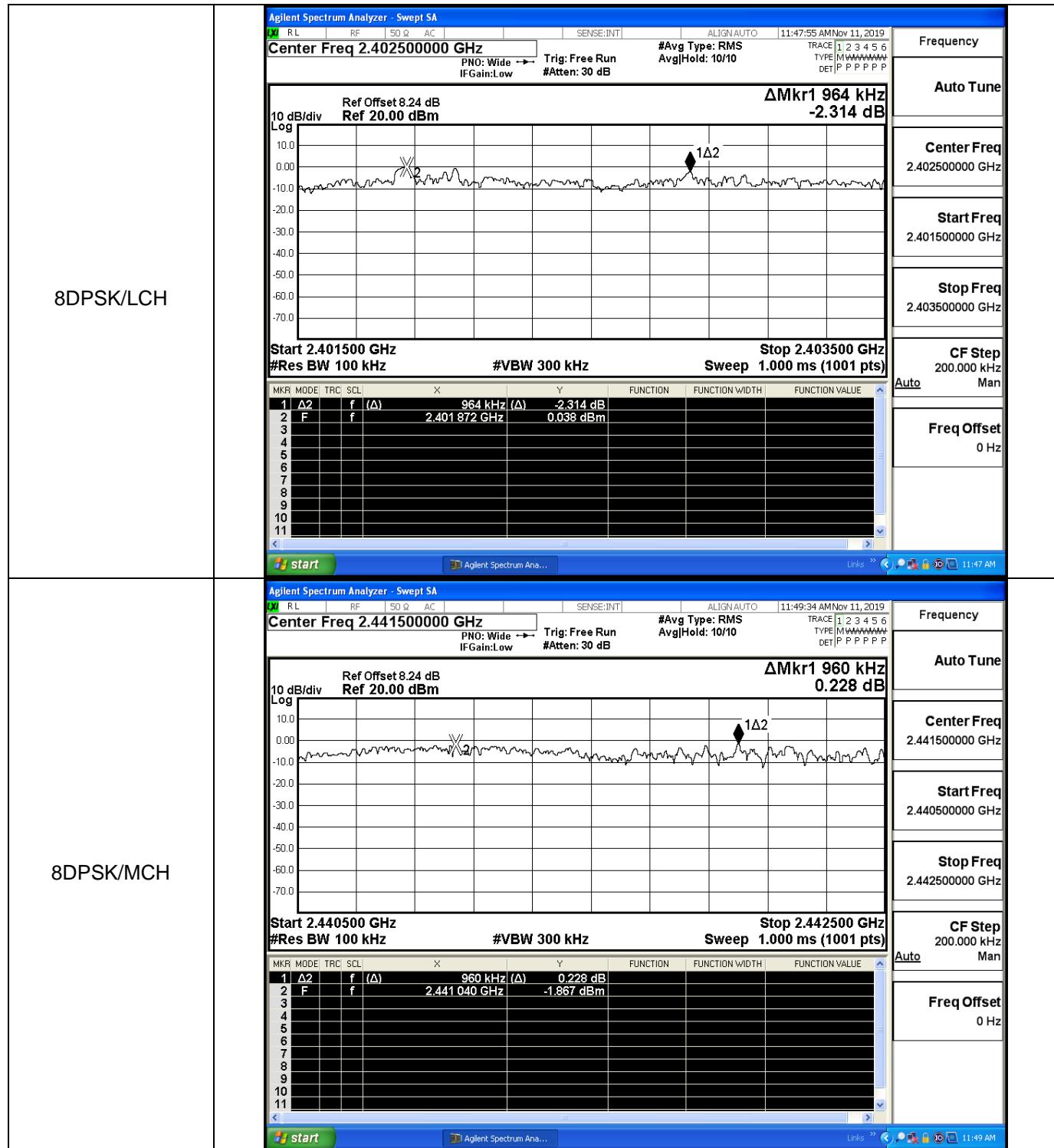
Mode	Channel.	Carrier Frequency Separation [MHz]	Limit [MHz]	Verdict
GFSK	LCH	1.031	0.629	PASS
	MCH	0.970	0.629	PASS
	HCH	0.992	0.629	PASS
$\pi/4$ DQPSK	LCH	1.164	0.845	PASS
	MCH	1.158	0.845	PASS

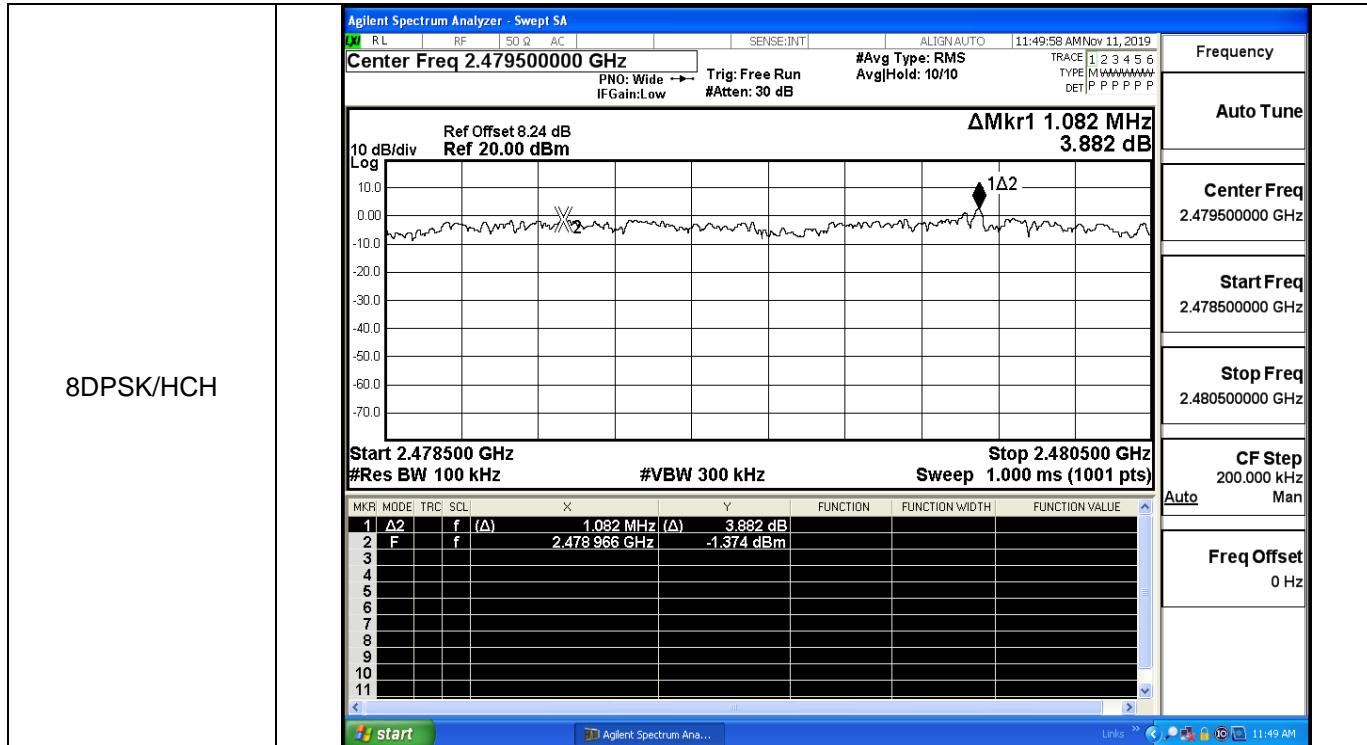
	HCH	1.072	0.845	PASS
8DPSK	LCH	0.964	0.833	PASS
	MCH	0.960	0.833	PASS
	HCH	1.082	0.833	PASS







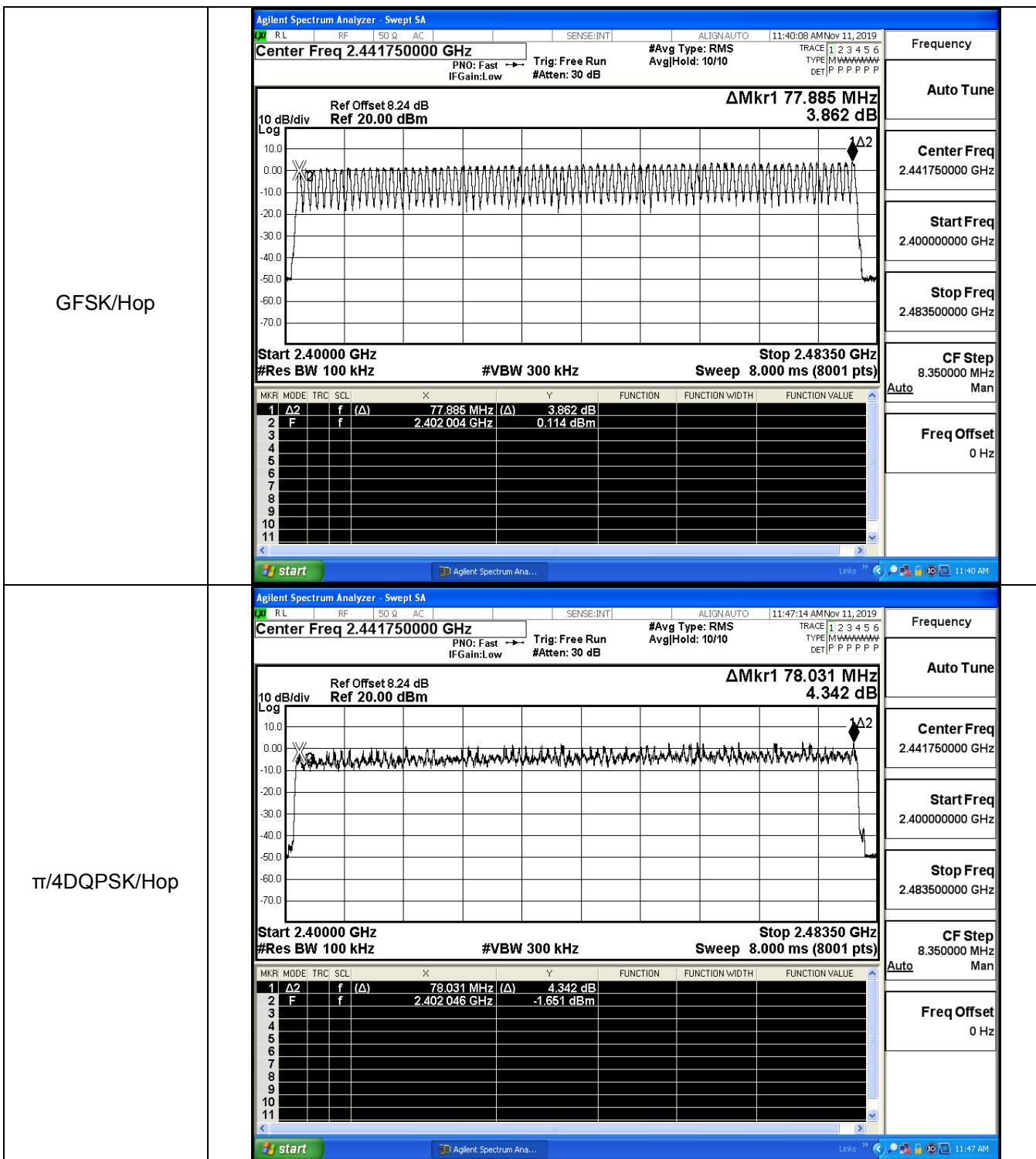


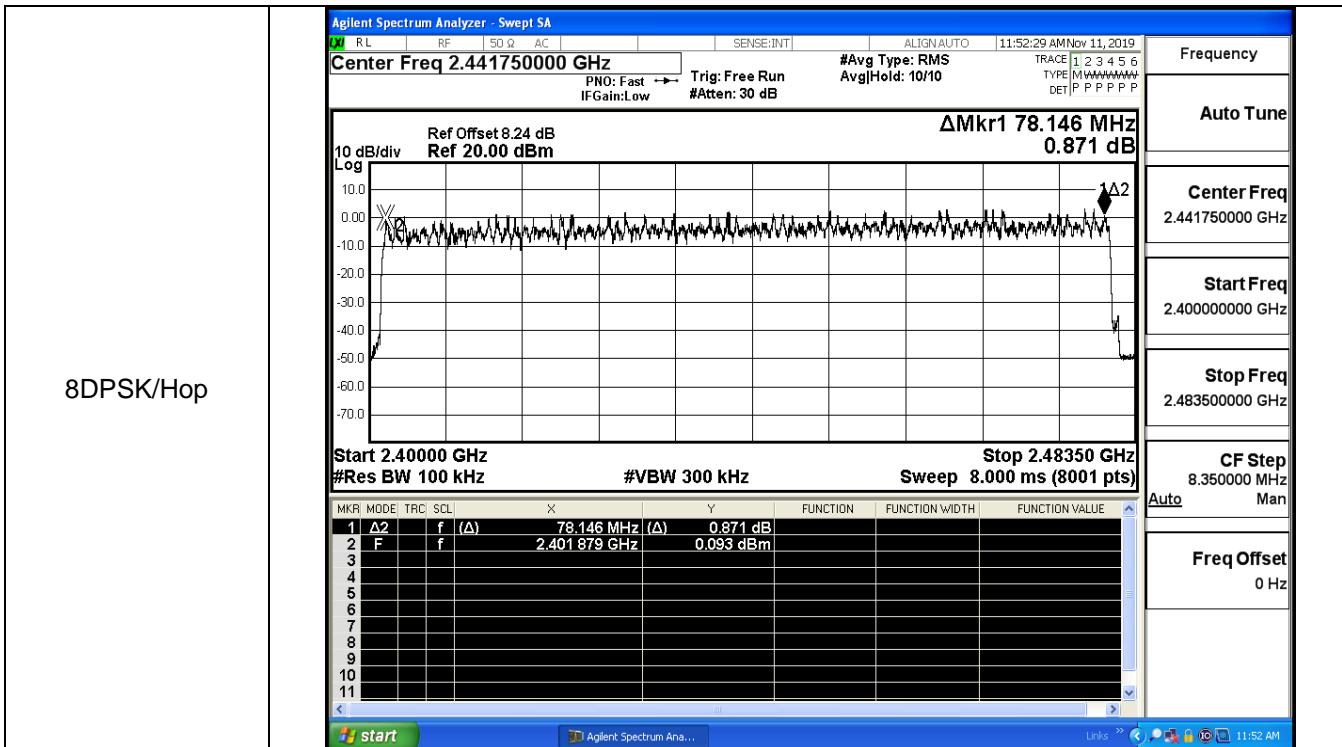


A.5 Hopping Channel Number

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

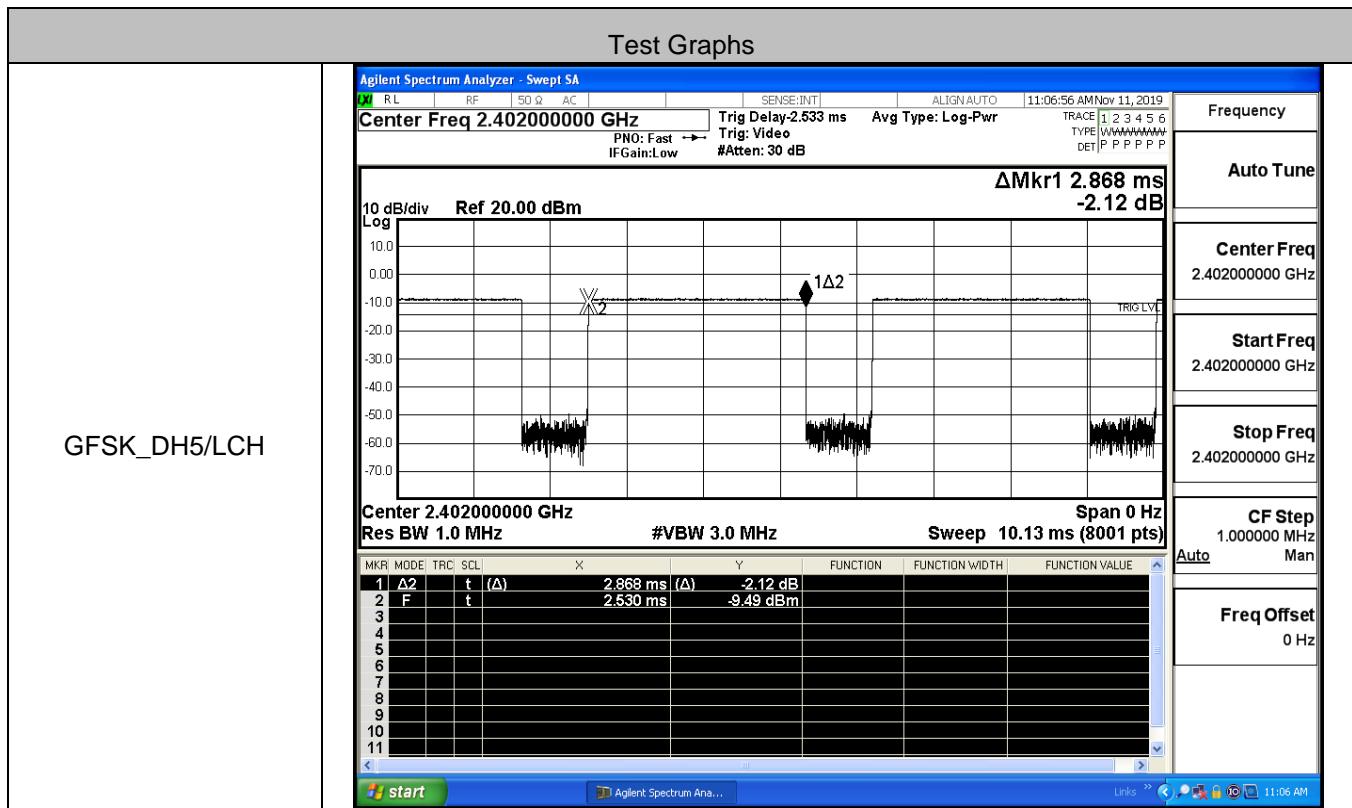
Test Graphs

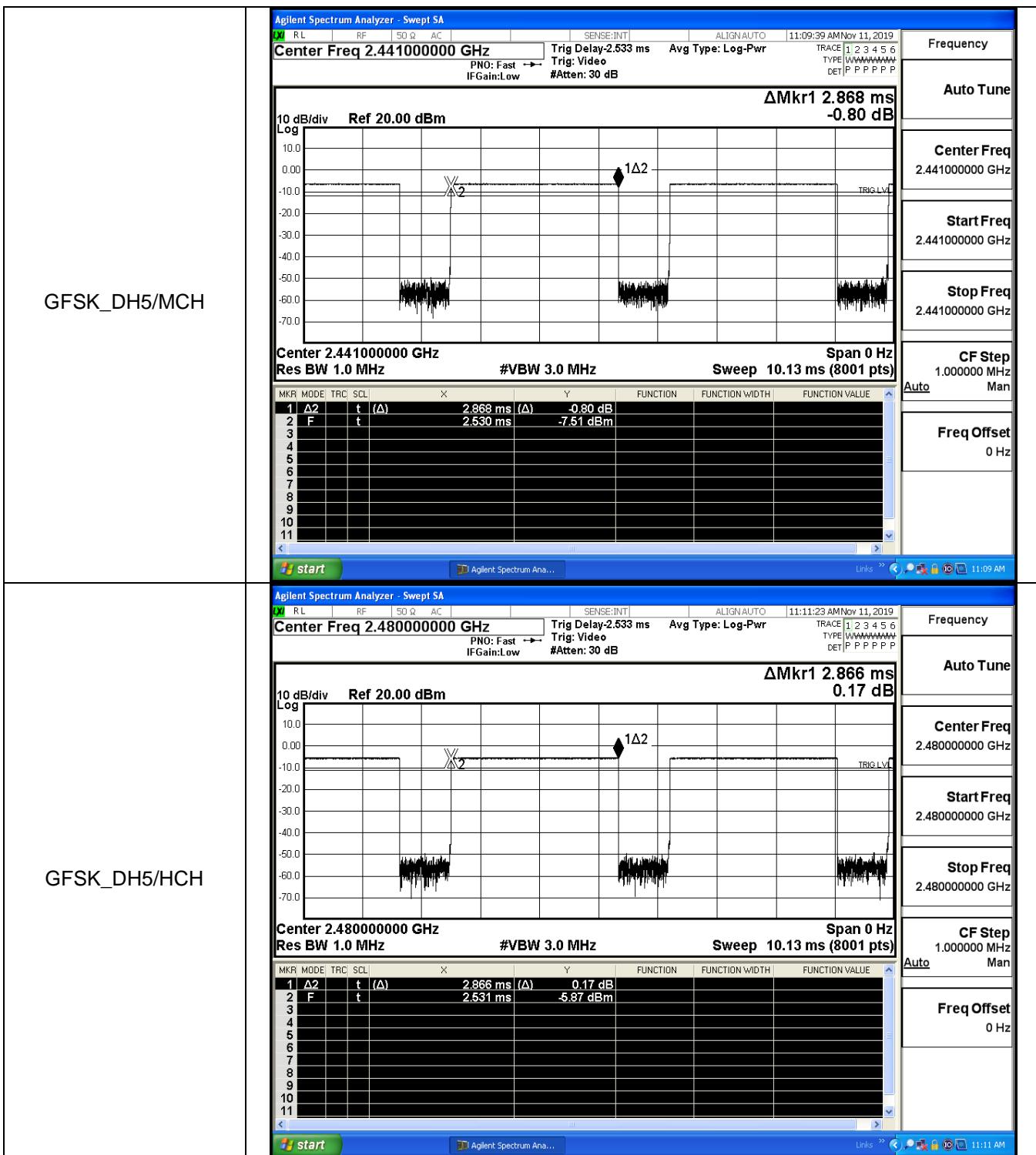


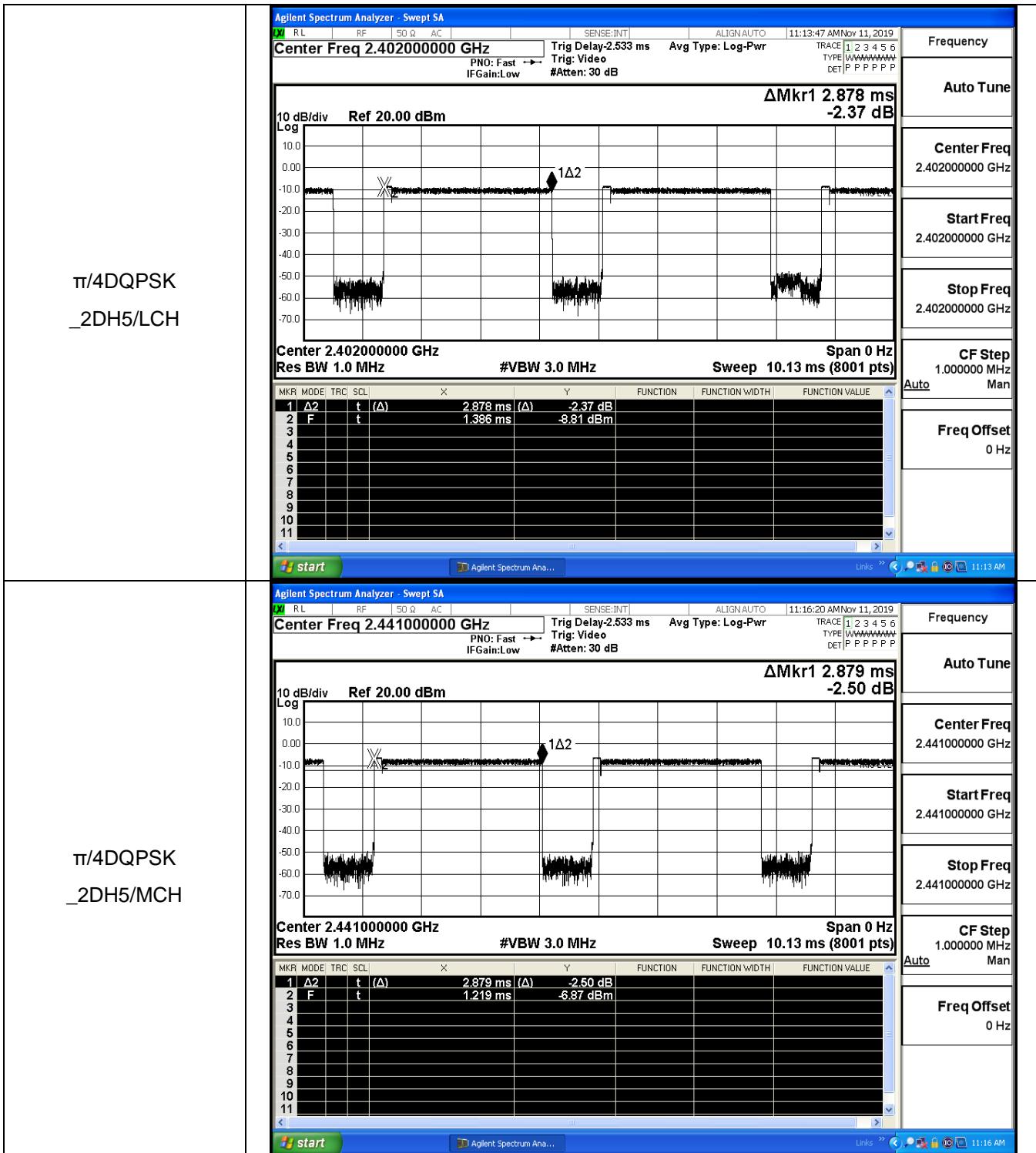


A.6 Dwell Time

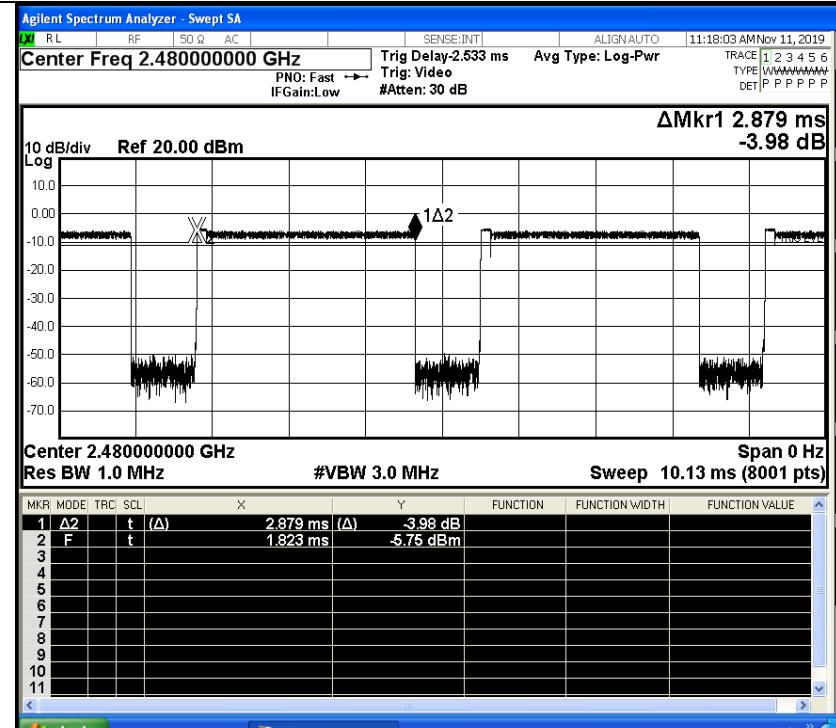
Mode	Packet	Channel	Burst Width [ms/hop/ch]	Total Hops[hop*ch]	Dwell Time[s]	Limit [s]	Verdict
GFSK	DH5	LCH	2.87	106.7	0.306	0.4	PASS
	DH5	MCH	2.87	106.7	0.306	0.4	PASS
	DH5	HCH	2.87	106.7	0.306	0.4	PASS
$\pi/4$ DQPSK	2DH5	LCH	2.87	106.7	0.307	0.4	PASS
	2DH5	MCH	2.87	106.7	0.307	0.4	PASS
	2DH5	HCH	2.87	106.7	0.307	0.4	PASS
8DPSK	3DH5	LCH	2.87	106.7	0.307	0.4	PASS
	3DH5	MCH	2.87	106.7	0.307	0.4	PASS
	3DH5	HCH	2.87	106.7	0.307	0.4	PASS





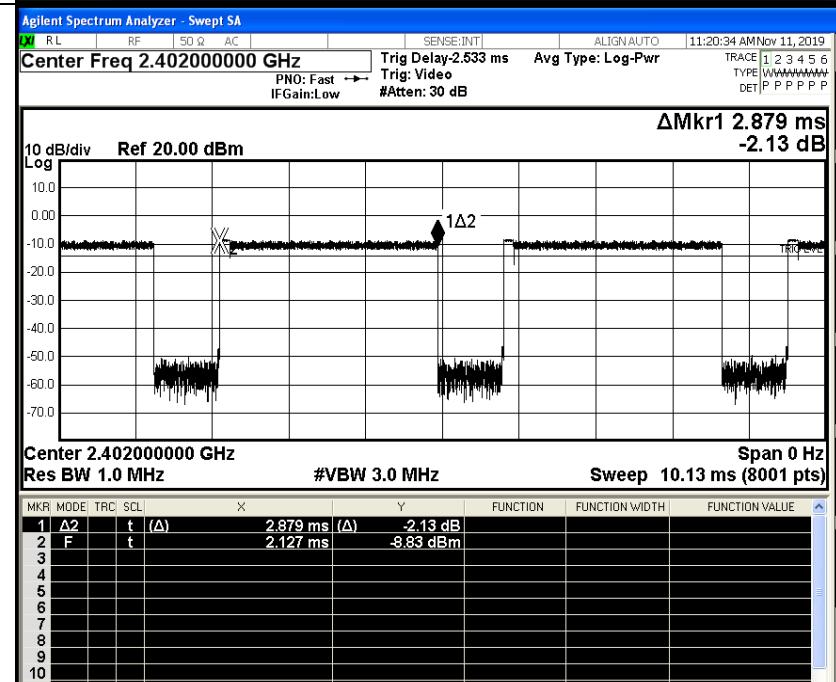


$\pi/4$ DQPSK
_2DH5/HCH



Frequency
Auto Tune
Center Freq 2.480000000 GHz
Start Freq 2.480000000 GHz
Stop Freq 2.480000000 GHz
CF Step 1.000000 MHz
Auto Man
Freq Offset 0 Hz

8DPSK _3DH5/LCH

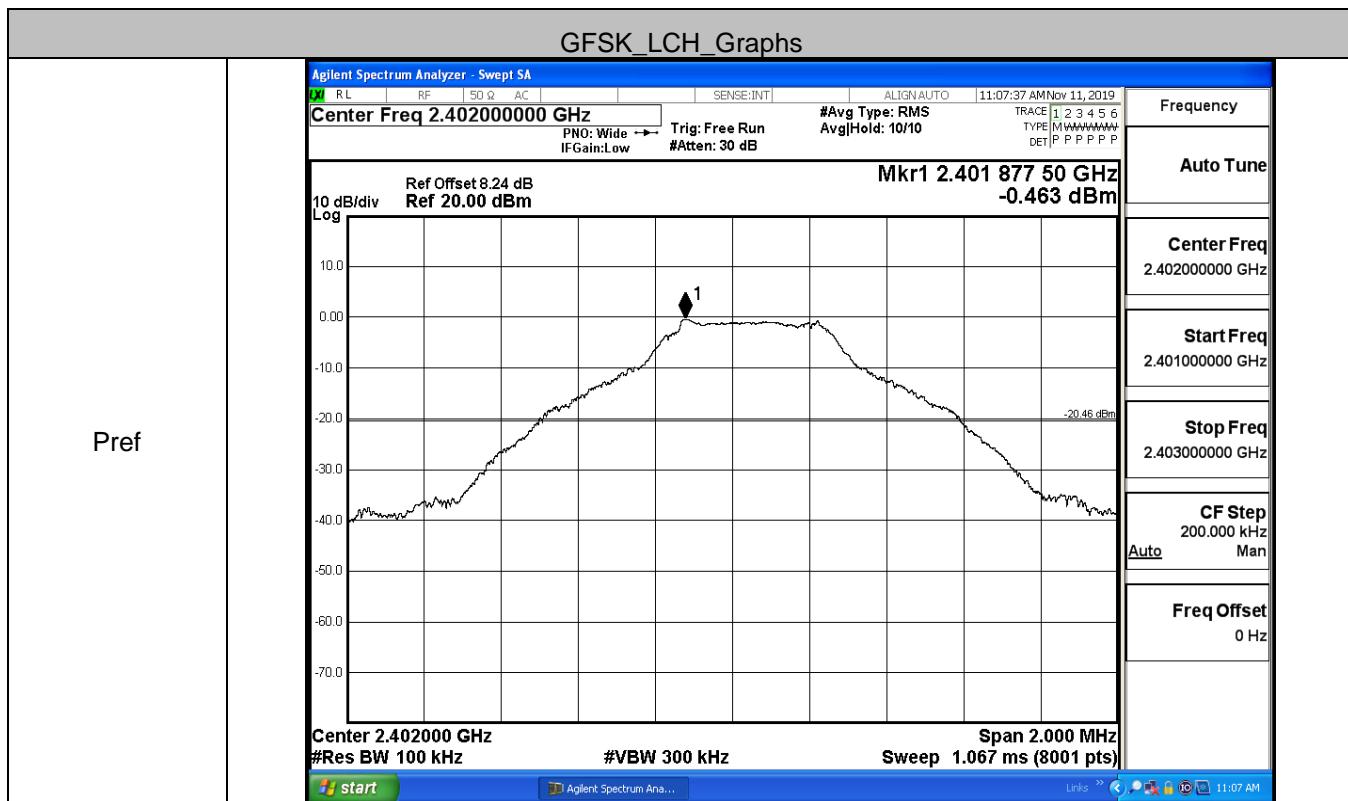


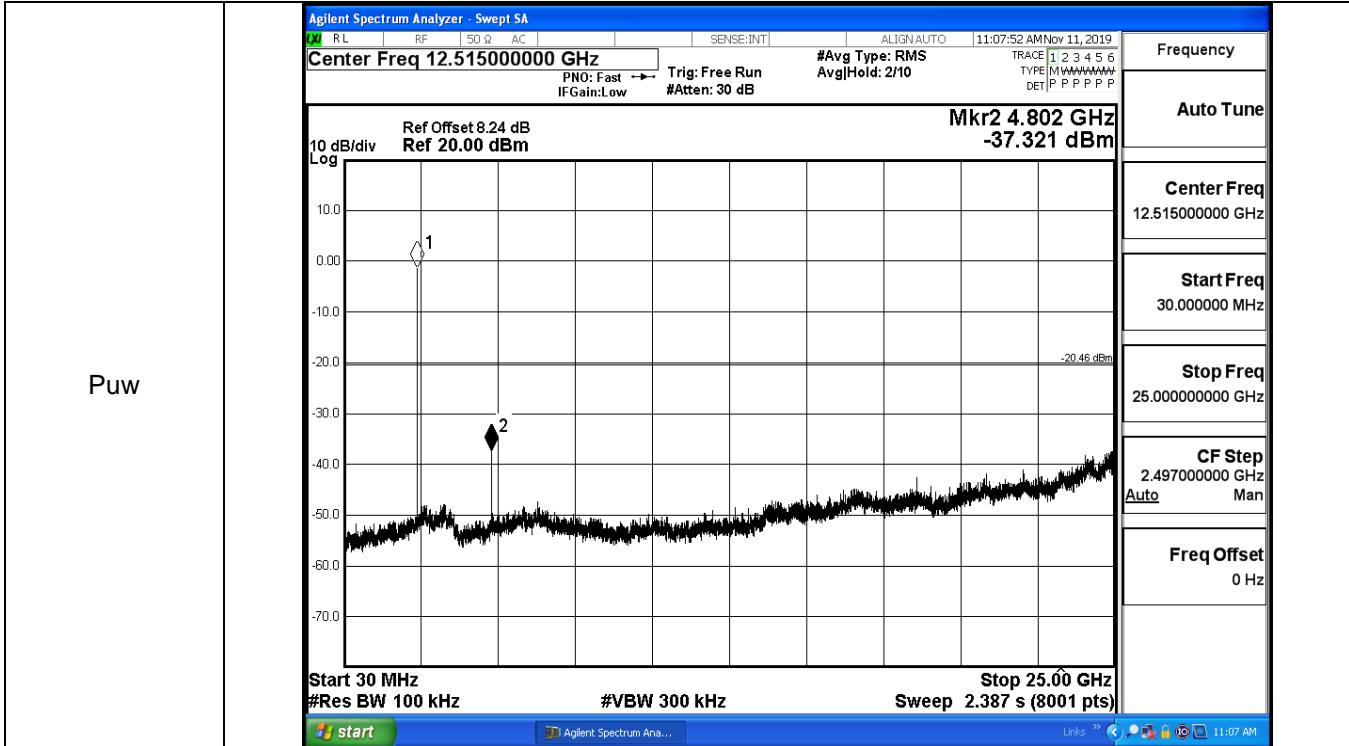
Frequency
Auto Tune
Center Freq 2.402000000 GHz
Start Freq 2.402000000 GHz
Stop Freq 2.402000000 GHz
CF Step 1.000000 MHz
Auto Man
Freq Offset 0 Hz

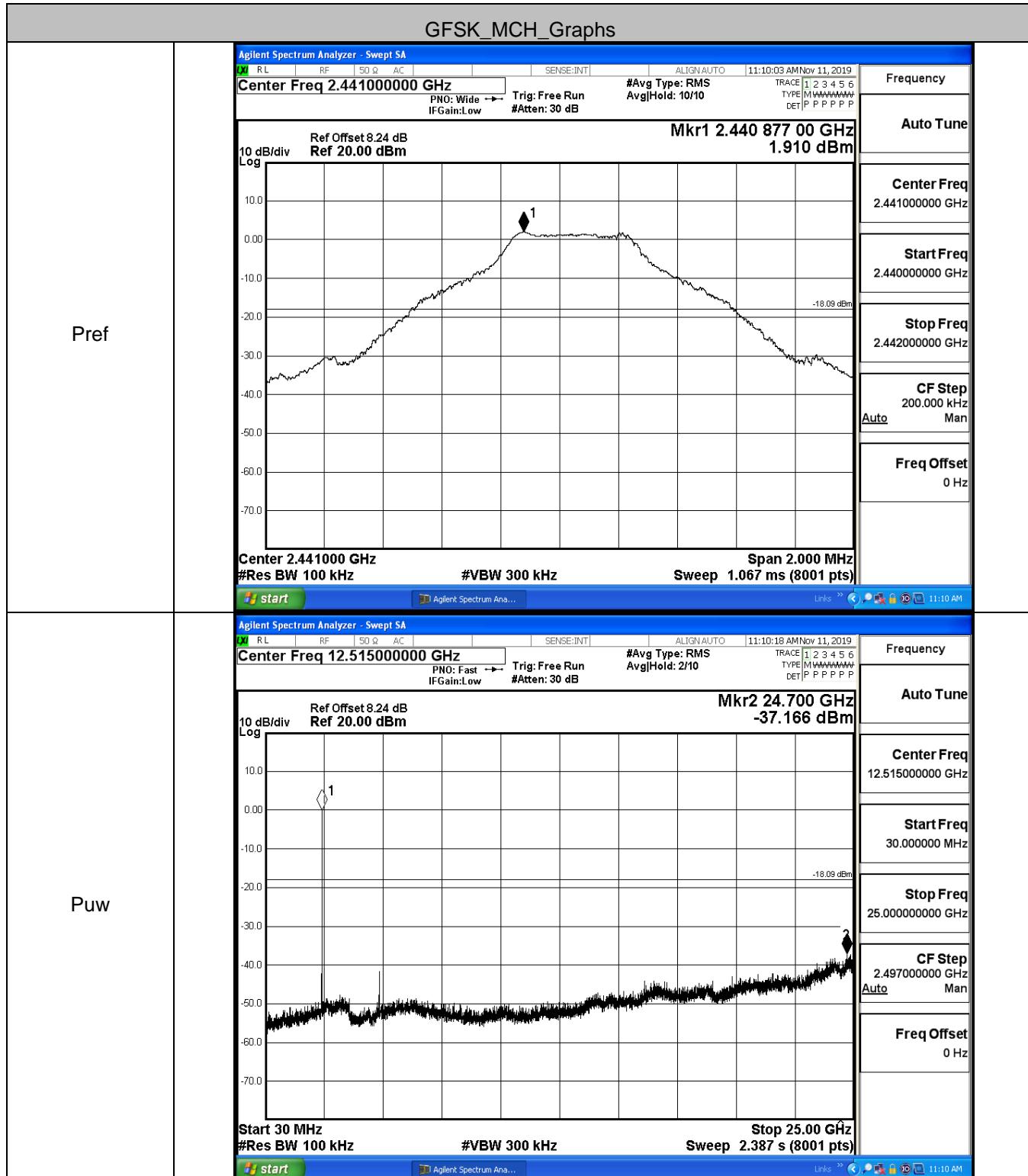


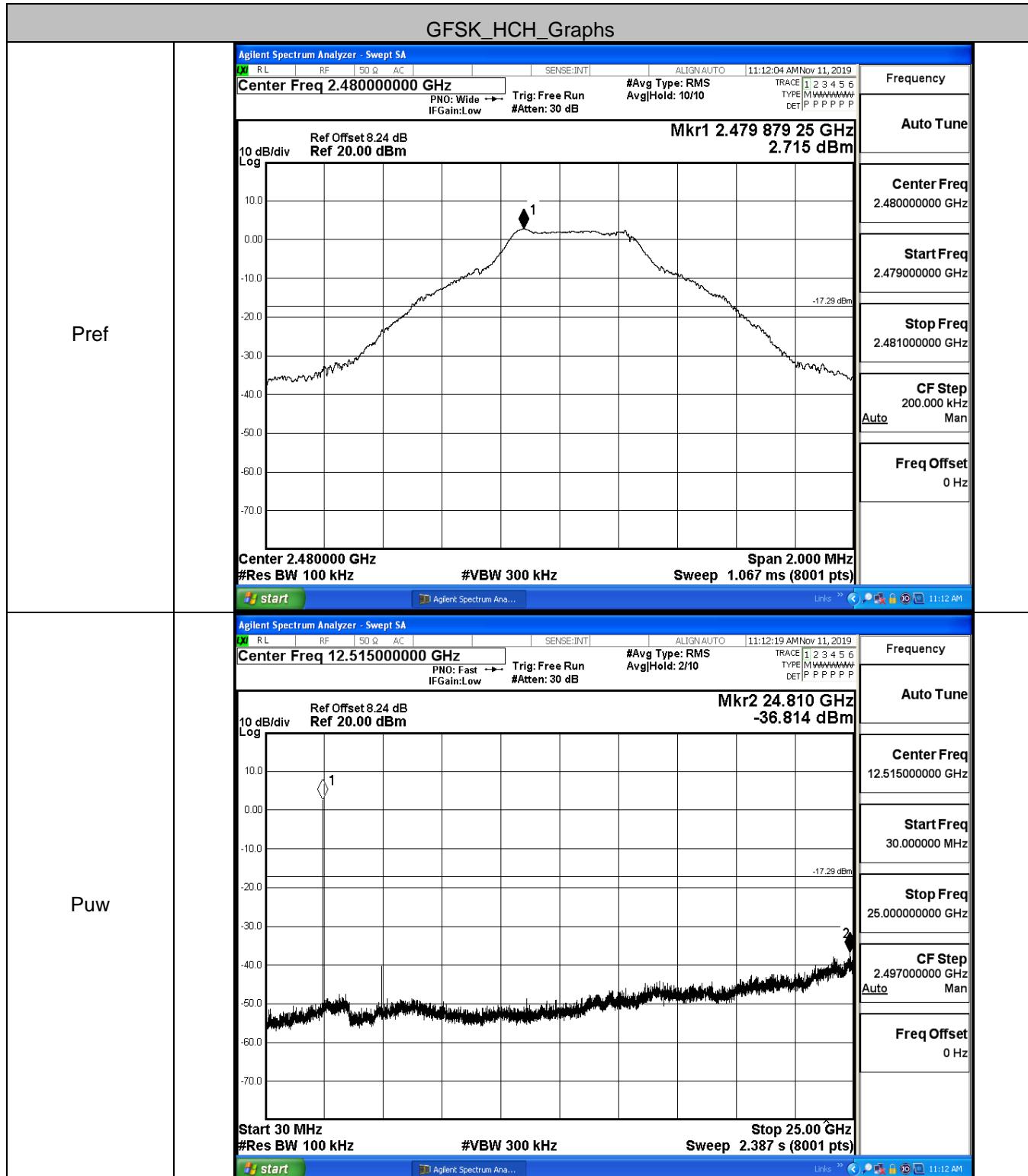
A.7 RF Conducted Spurious Emissions

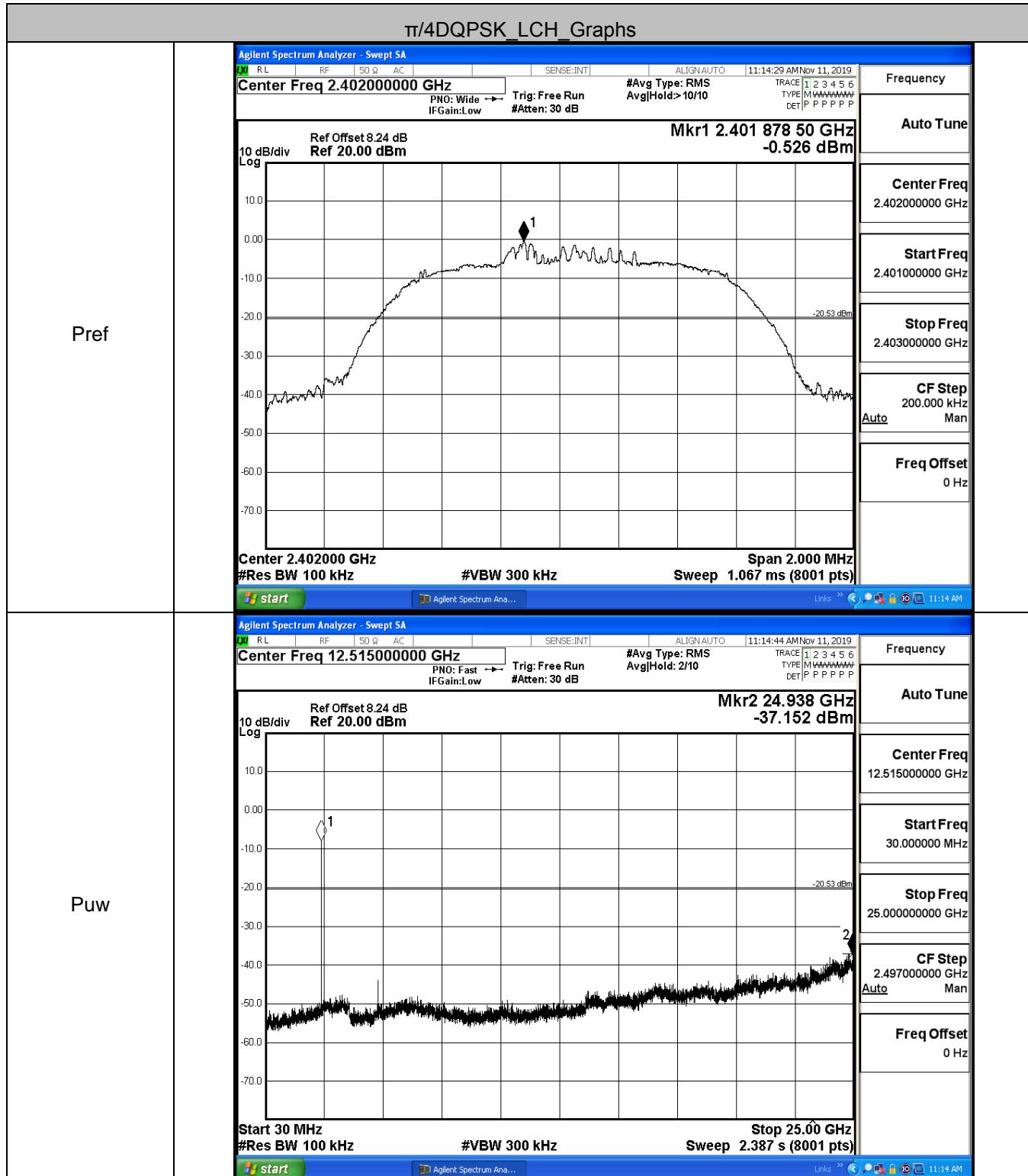
Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
GFSK	LCH	-0.463	-37.321	-20.463	PASS
	MCH	1.91	-37.166	-18.090	PASS
	HCH	2.715	-36.814	-17.285	PASS
$\pi/4$ DQPSK	LCH	-0.526	-37.152	-20.526	PASS
	MCH	1.248	-37.097	-18.752	PASS
	HCH	1.959	-37.423	-18.041	PASS
8DPSK	LCH	-0.818	-36.595	-20.818	PASS
	MCH	1.898	-37.762	-18.102	PASS
	HCH	3.949	-37.589	-16.051	PASS

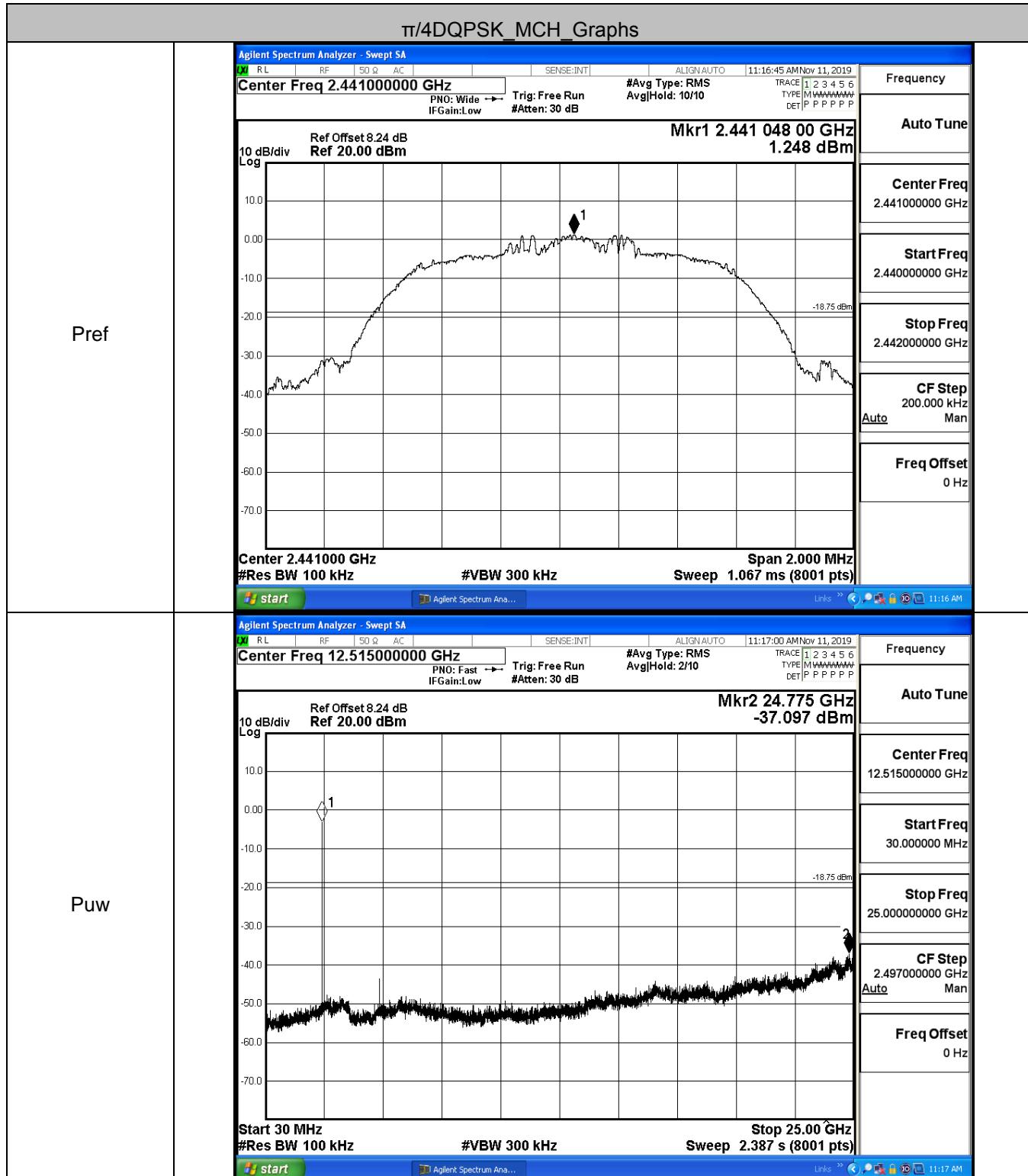


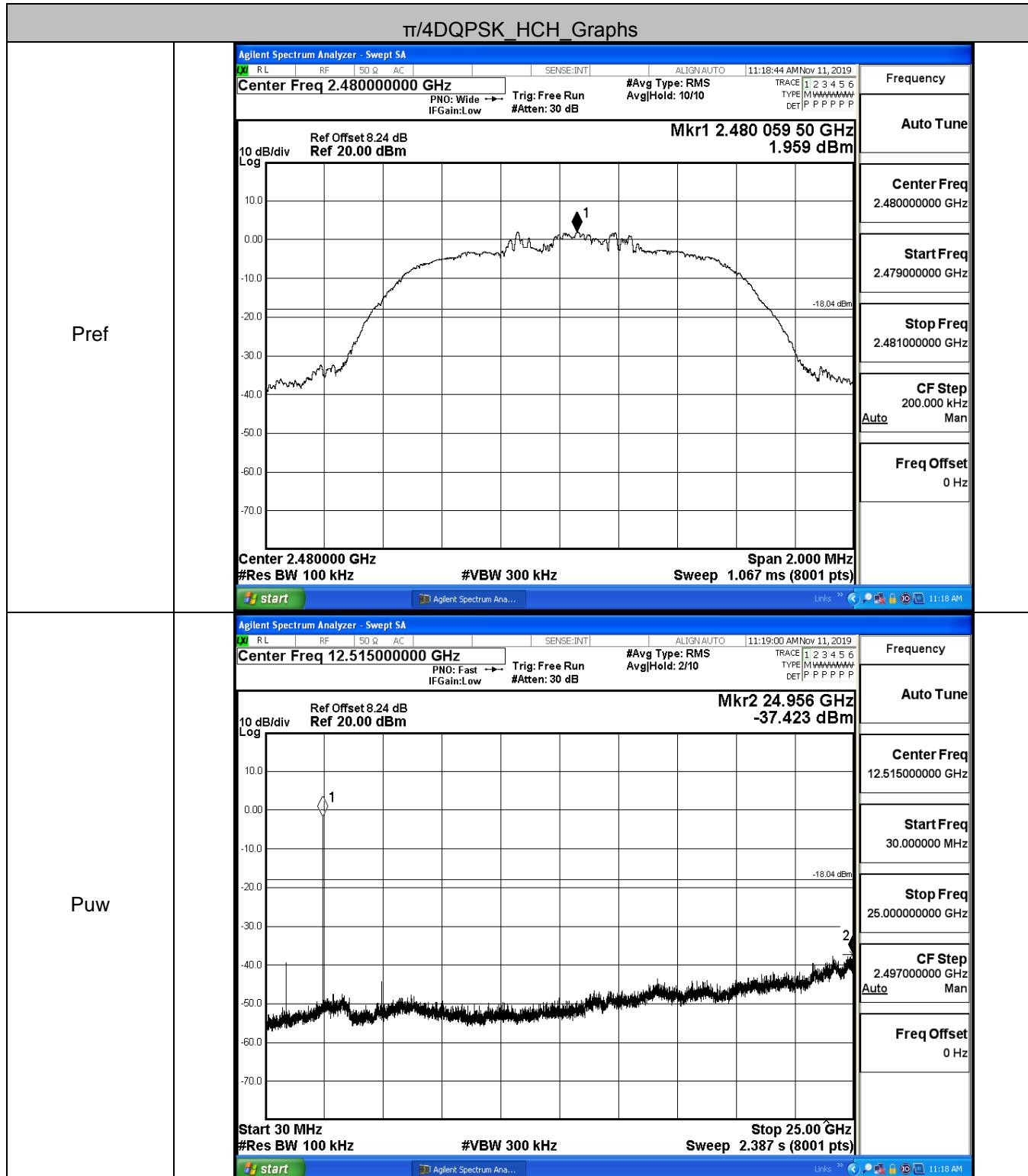


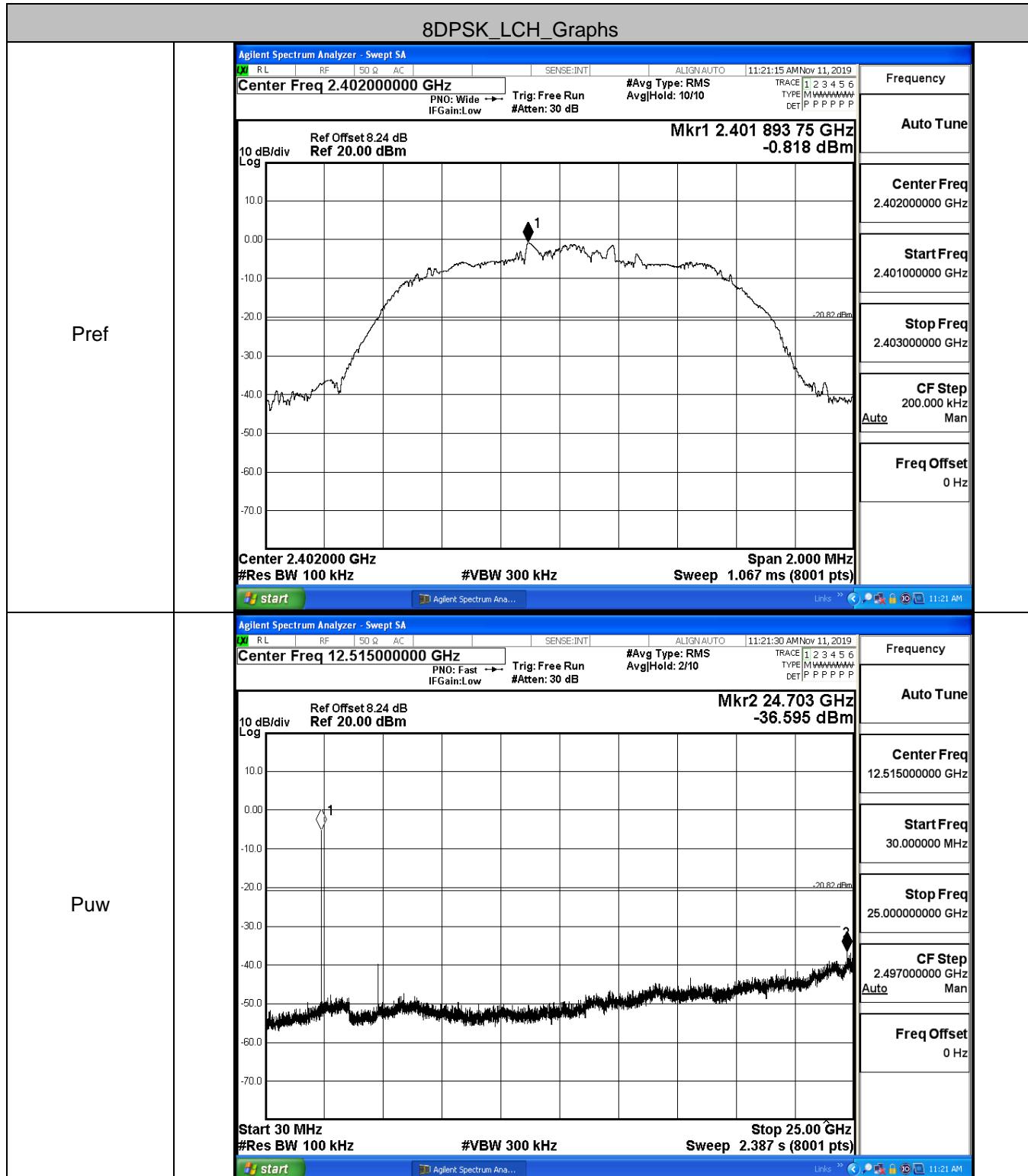


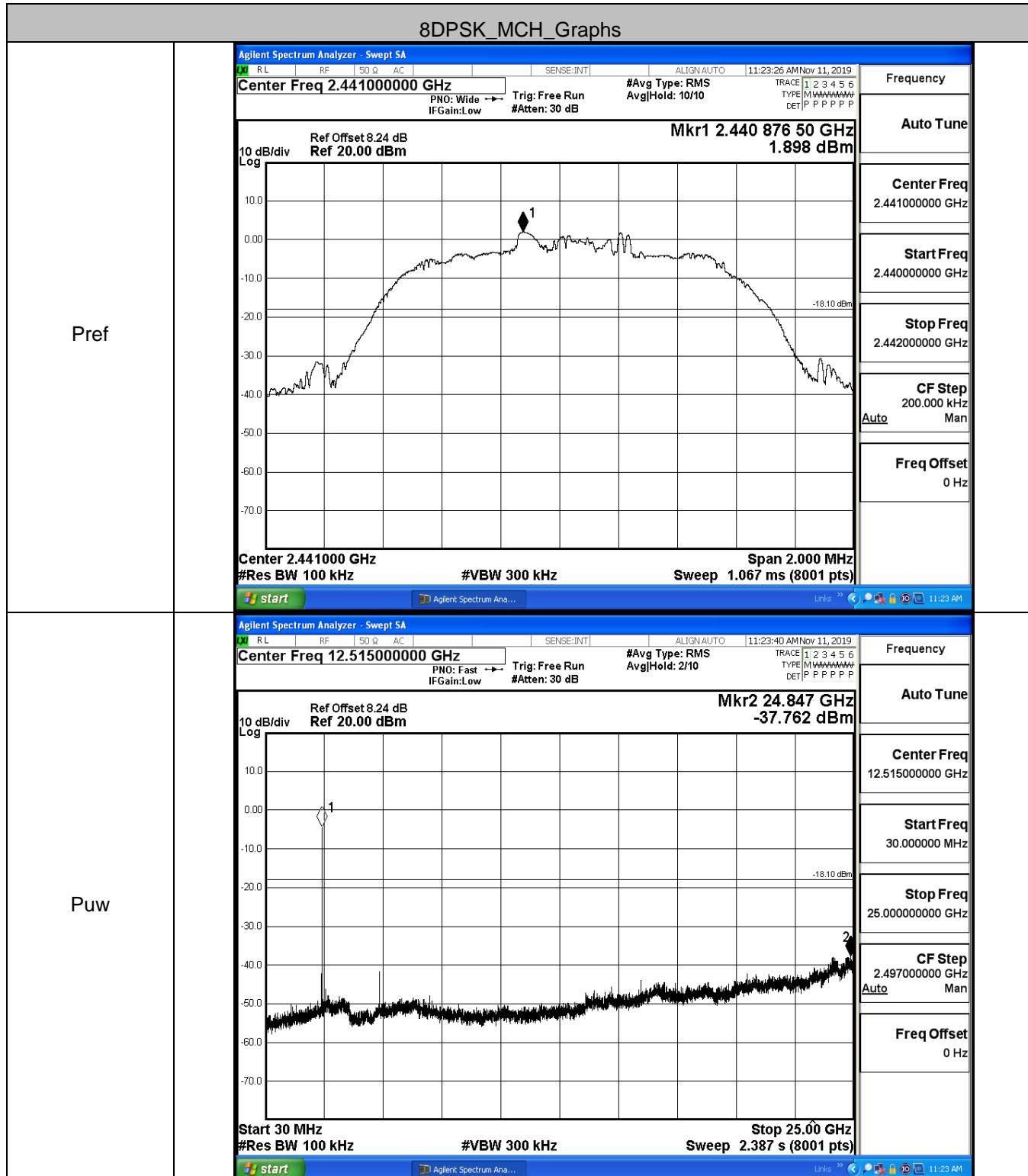


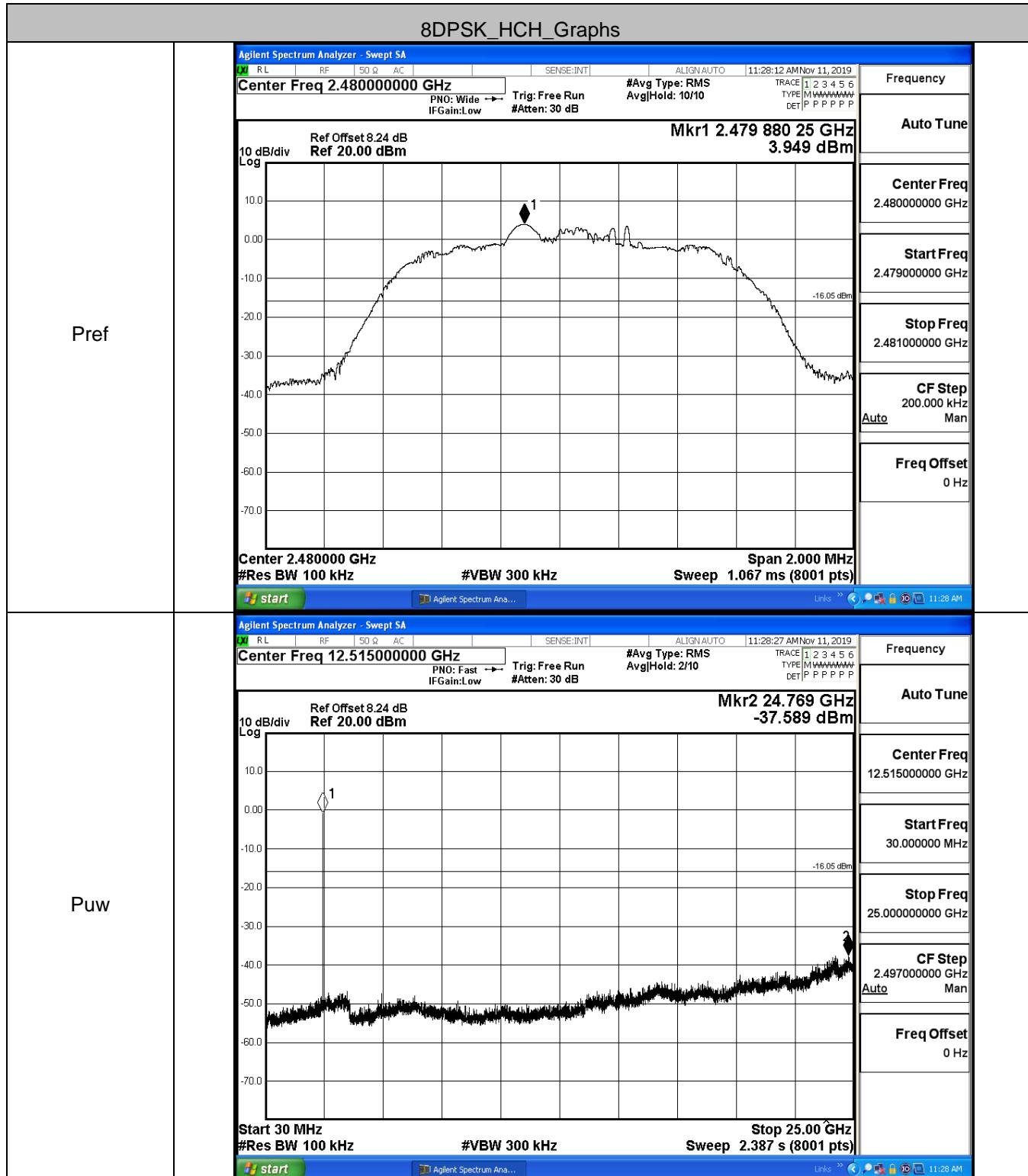








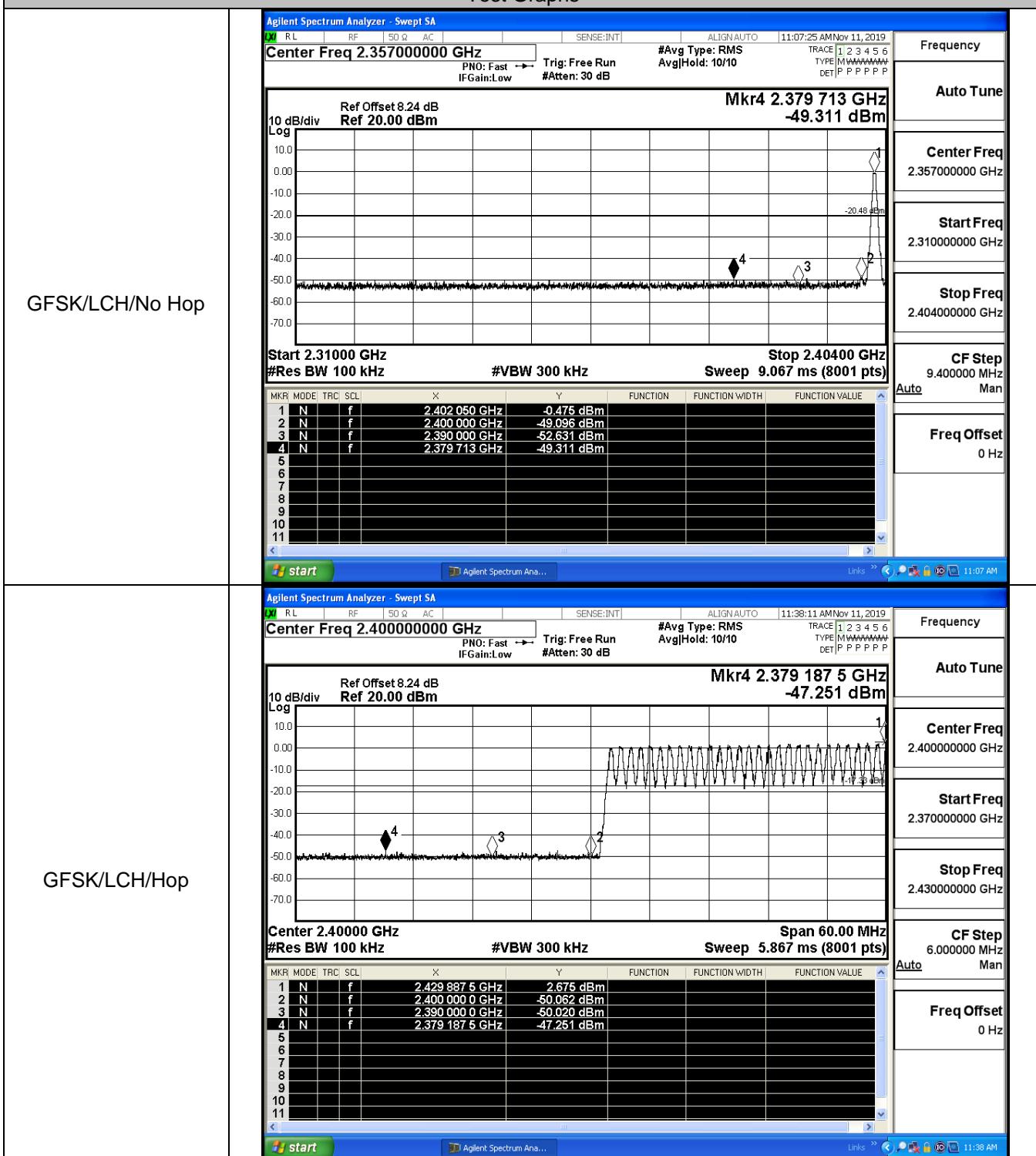


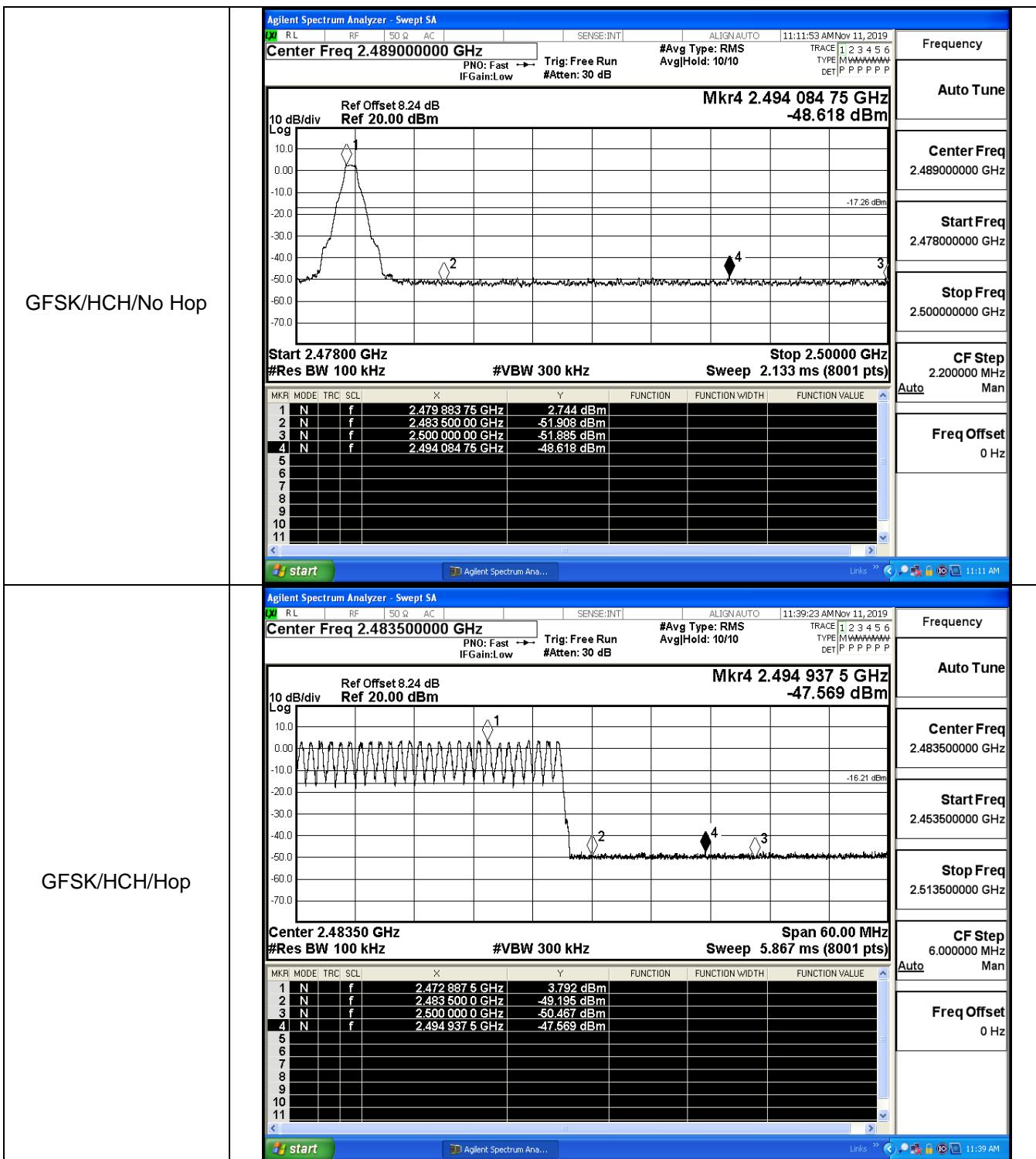


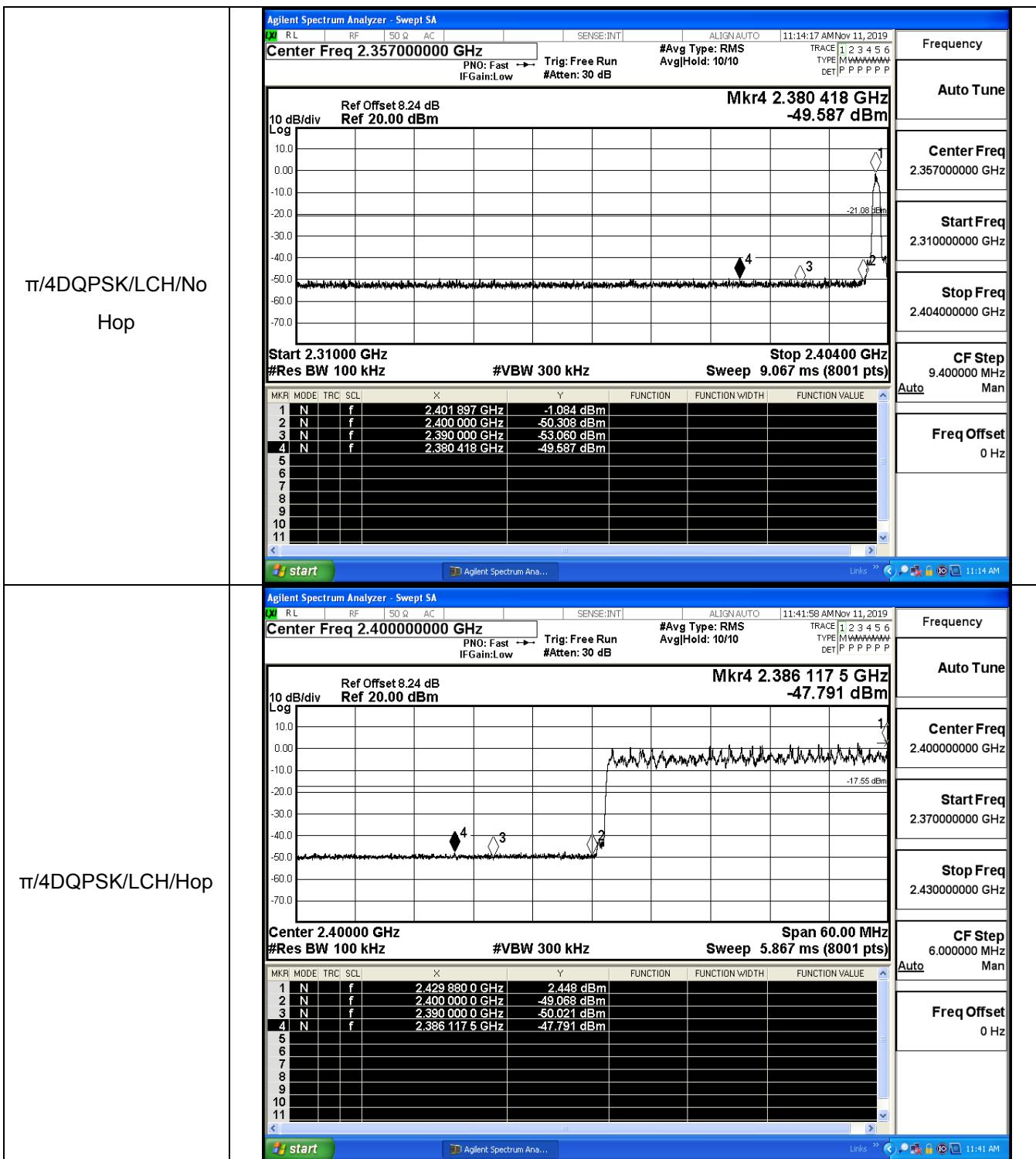
A.8 Band-edge for RF Conducted Emissions

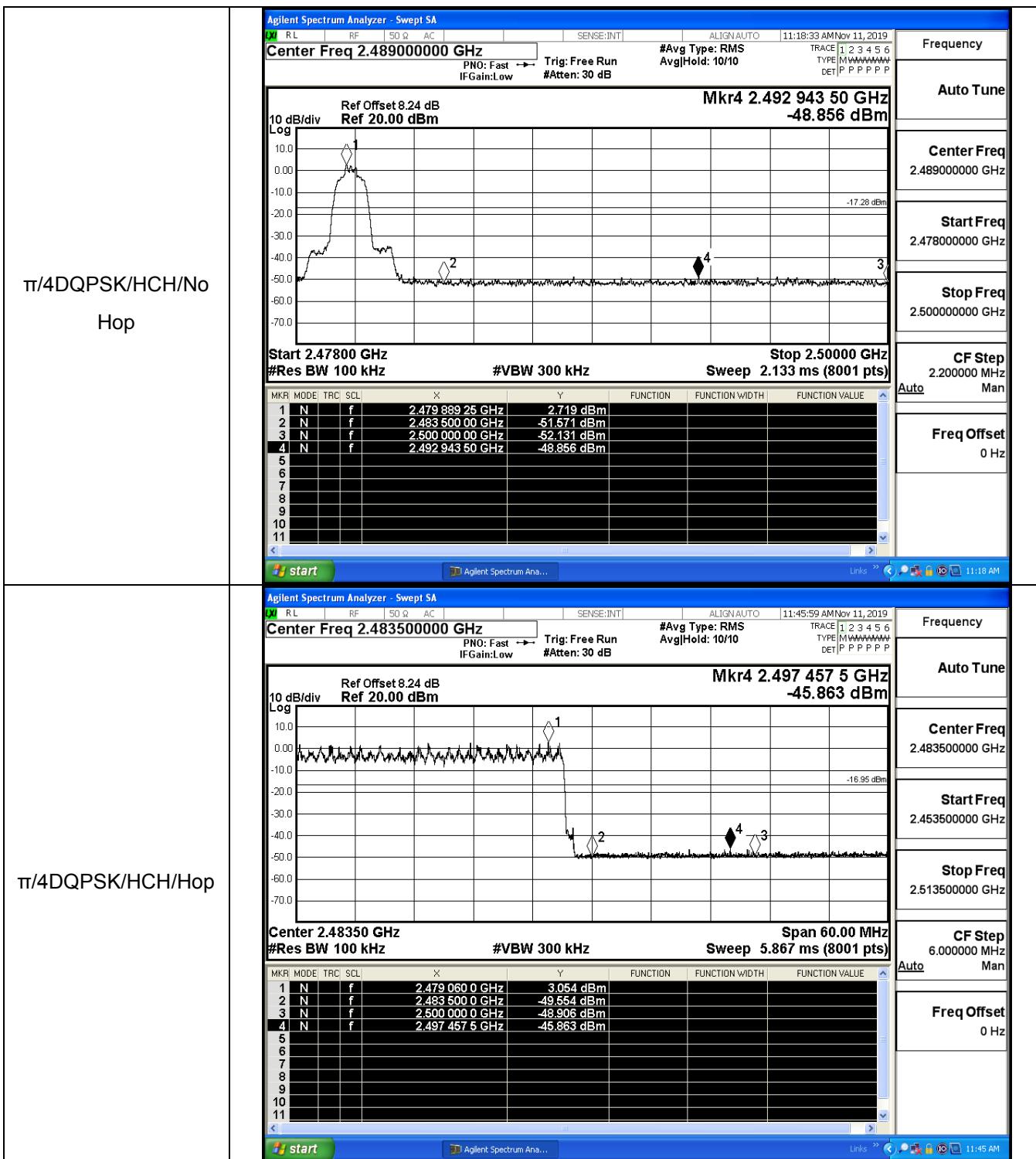
Mode	Channel	Carrier Frequency [MHz]	Carrier Power [dBm]	Frequency Hopping	Max Spurious Level [dBm]	Limit [dBm]	Verdict
GFSK	LCH	2402	-0.475	Off	-49.311	-20.48	PASS
			2.675	On	-47.251	-17.33	PASS
	HCH	2480	2.744	Off	-48.618	-17.26	PASS
			3.792	On	-47.569	-16.21	PASS
$\pi/4$ DQPSK	LCH	2402	-1.084	Off	-49.587	-21.08	PASS
			2.448	On	-47.791	-17.55	PASS
	HCH	2480	2.719	Off	-48.856	-17.28	PASS
			3.054	On	-45.863	-16.95	PASS
8DPSK	LCH	2402	-0.350	Off	-49.473	-20.35	PASS
			1.739	On	-47.491	-18.26	PASS
	HCH	2480	3.870	Off	-47.218	-16.13	PASS
			3.020	On	-46.353	-16.98	PASS

Test Graphs

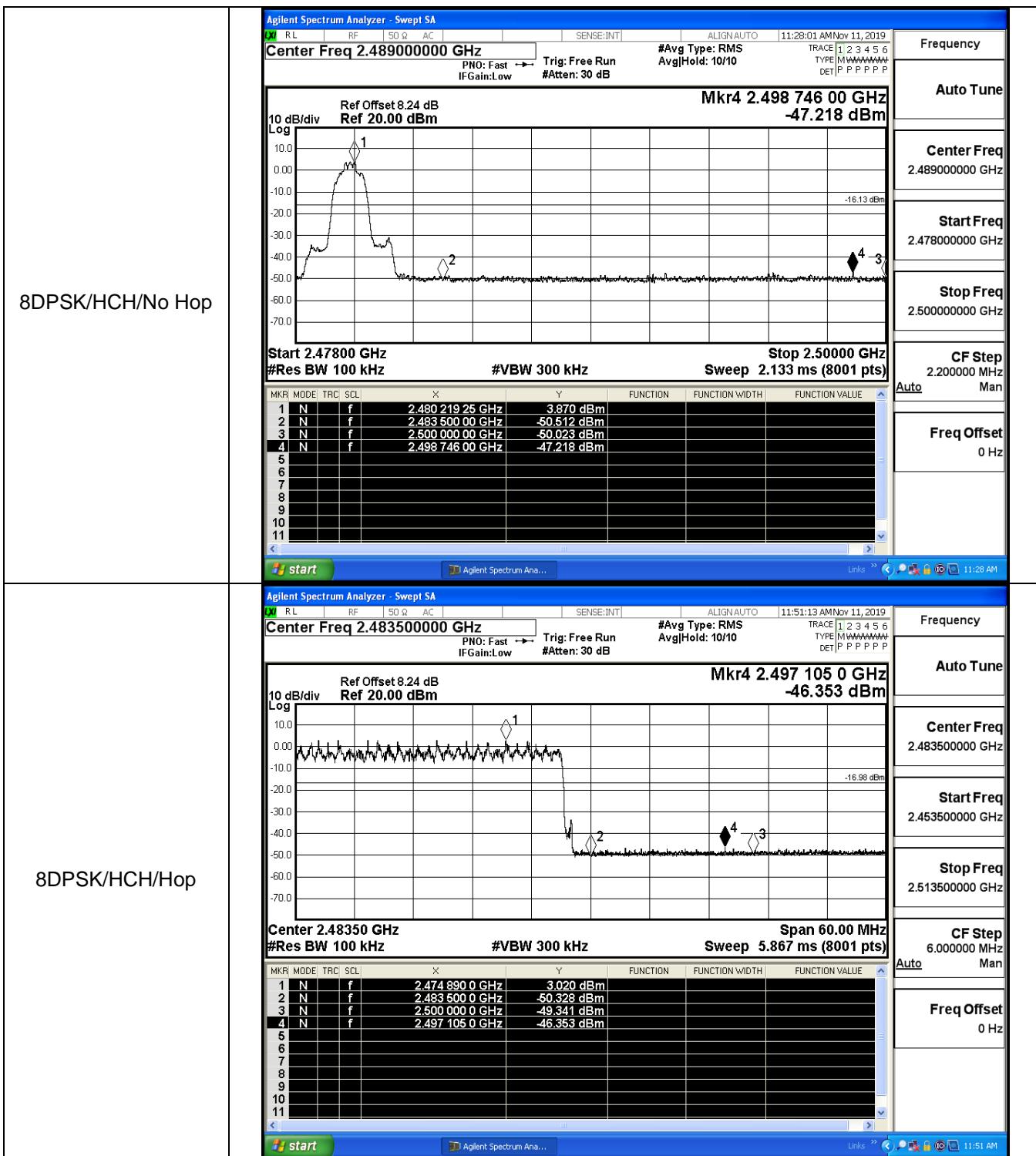








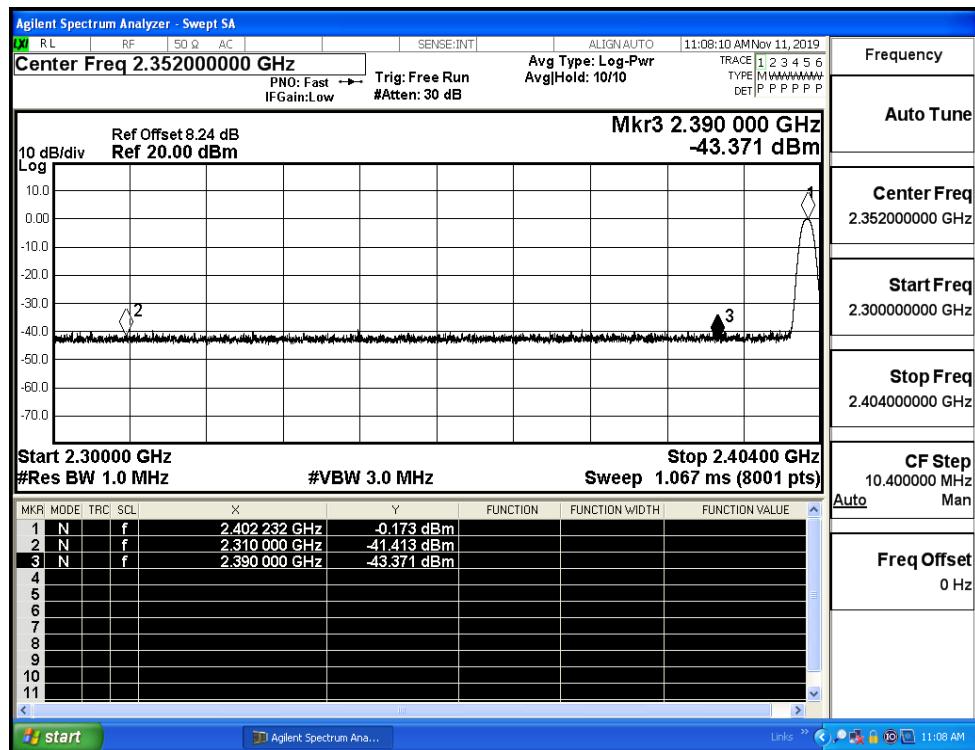




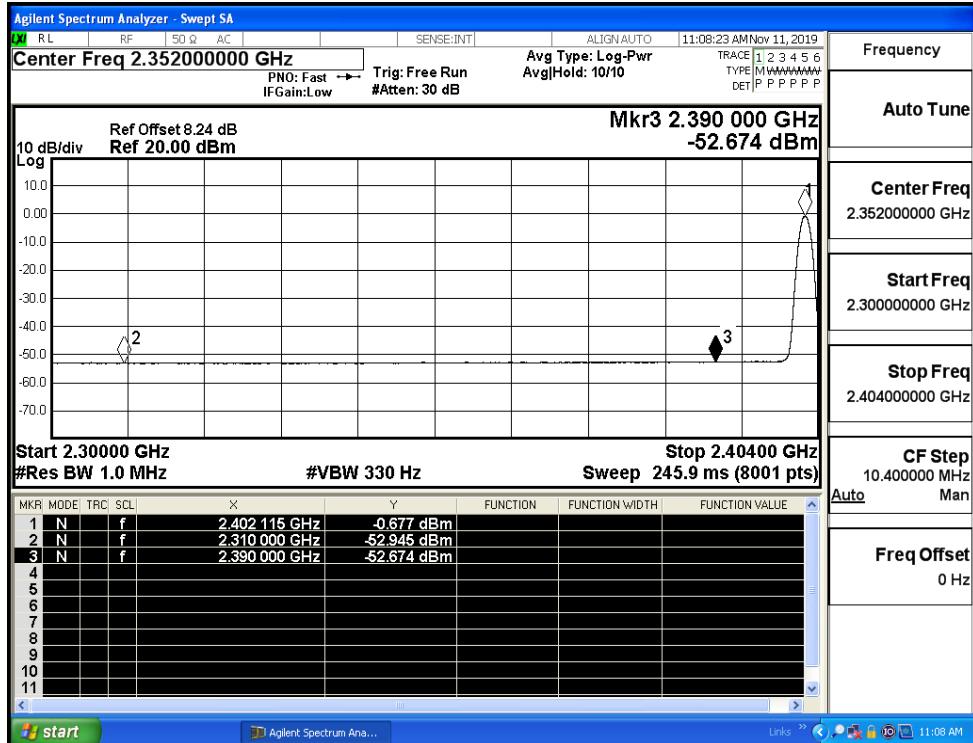
A.8 Restrict-band band-edge measurements

Test Mode	Hopping	Freq.	Power [dBm]	Gain	Ground Factor	E [dBuV/m]	Detector	Limit [dBuV/m]	Verdict
GFSK	Off	2310.0	-41.41	2.0	0	53.84	PEAK	74	PASS
	Off	2310.0	-52.95	2.0	0	42.31	AV	54	PASS
	Off	2390.0	-43.37	2.0	0	51.89	PEAK	74	PASS
	Off	2390.0	-52.67	2.0	0	42.58	AV	54	PASS
	Off	2483.5	-41.09	2.0	0	54.17	PEAK	74	PASS
	Off	2483.5	-51.99	2.0	0	43.27	AV	54	PASS
	Off	2500.0	-40.80	2.0	0	54.46	PEAK	74	PASS
	Off	2500.0	-51.96	2.0	0	43.30	AV	54	PASS
$\pi/4$ DQPSK	Off	2310.0	-43.63	2.0	0	51.63	PEAK	74	PASS
	Off	2310.0	-53.07	2.0	0	42.19	AV	54	PASS
	Off	2390.0	-42.31	2.0	0	52.95	PEAK	74	PASS
	Off	2390.0	-52.67	2.0	0	42.59	AV	54	PASS
	Off	2483.5	-40.78	2.0	0	54.48	PEAK	74	PASS
	Off	2483.5	-51.91	2.0	0	43.34	AV	54	PASS
	Off	2500.0	-42.20	2.0	0	53.06	PEAK	74	PASS
	Off	2500.0	-52.06	2.0	0	43.20	AV	54	PASS
8DPSK	Off	2310.0	-42.97	2.0	0	52.28	PEAK	74	PASS
	Off	2310.0	-52.94	2.0	0	42.32	AV	54	PASS
	Off	2390.0	-42.46	2.0	0	52.80	PEAK	74	PASS
	Off	2390.0	-52.63	2.0	0	42.63	AV	54	PASS
	Off	2483.5	-39.83	2.0	0	55.43	PEAK	74	PASS
	Off	2483.5	-50.59	2.0	0	44.67	AV	54	PASS
	Off	2500.0	-40.07	2.0	0	55.19	PEAK	74	PASS
	Off	2500.0	-50.60	2.0	0	44.65	AV	54	PASS

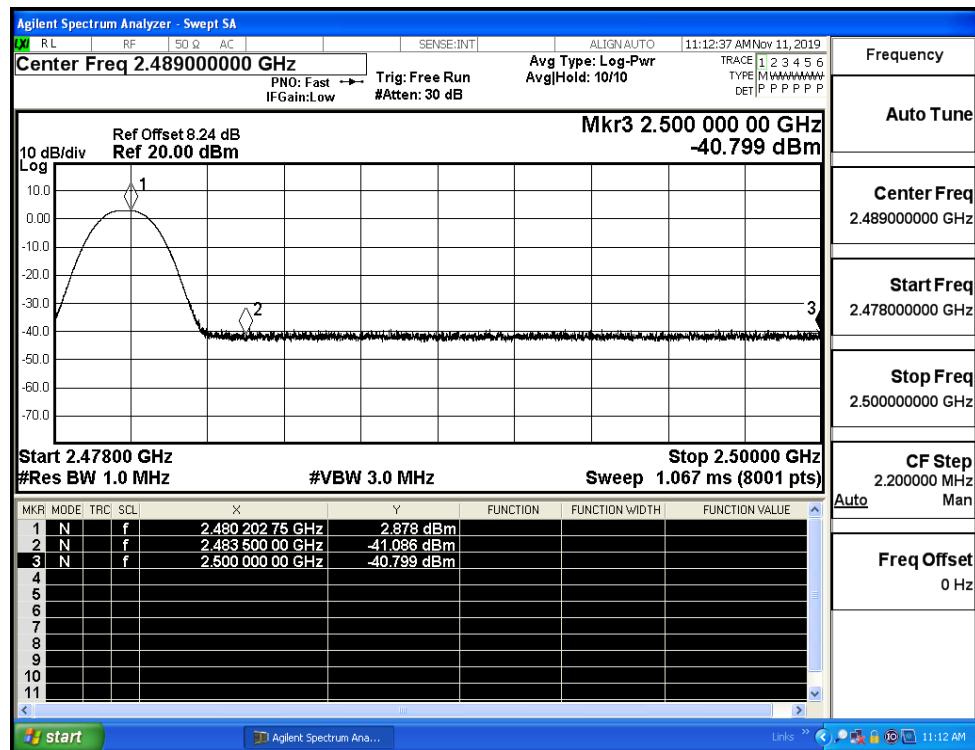
Restrict-band band-edge measurements_Hopping Off_ GFSK_PEAK (Low Channel)



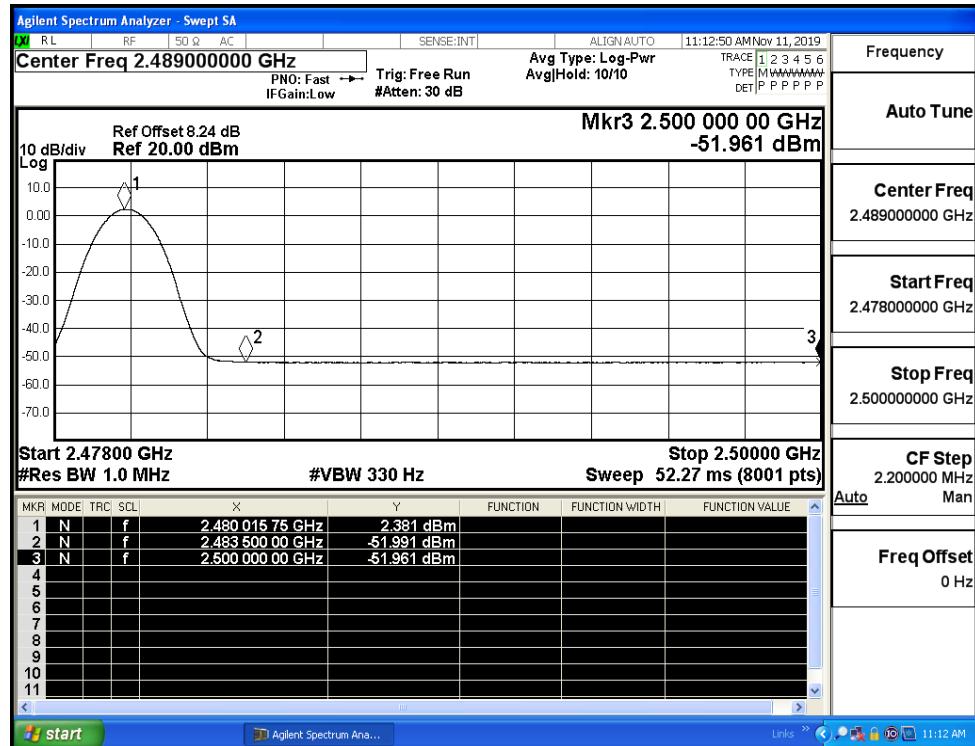
Restrict-band band-edge measurements_Hopping Off_ GFSK_Average (Low Channel)



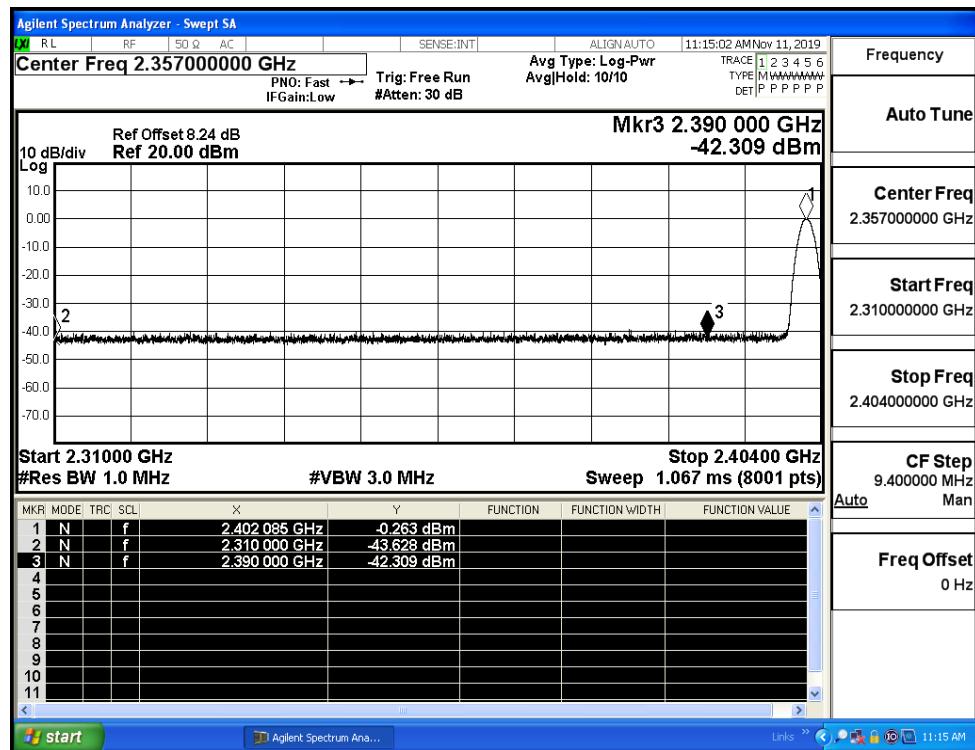
Restrict-band band-edge measurements_Hopping Off_ GFSK_PEAK (High Channel)



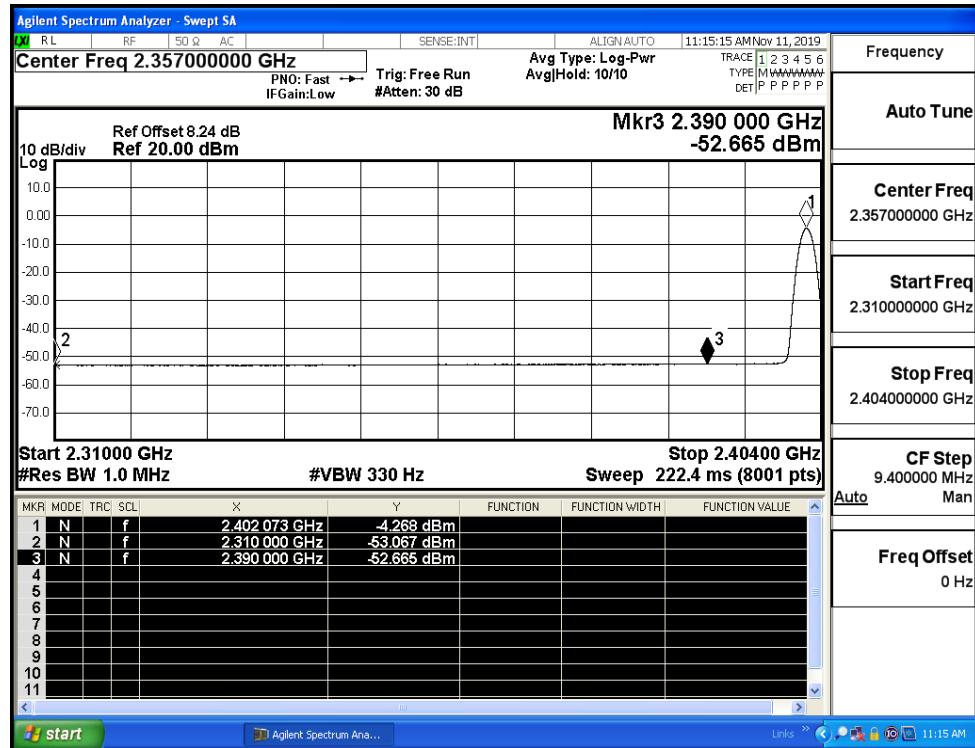
Restrict-band band-edge measurements_Hopping Off_ GFSK_Average (High Channel)



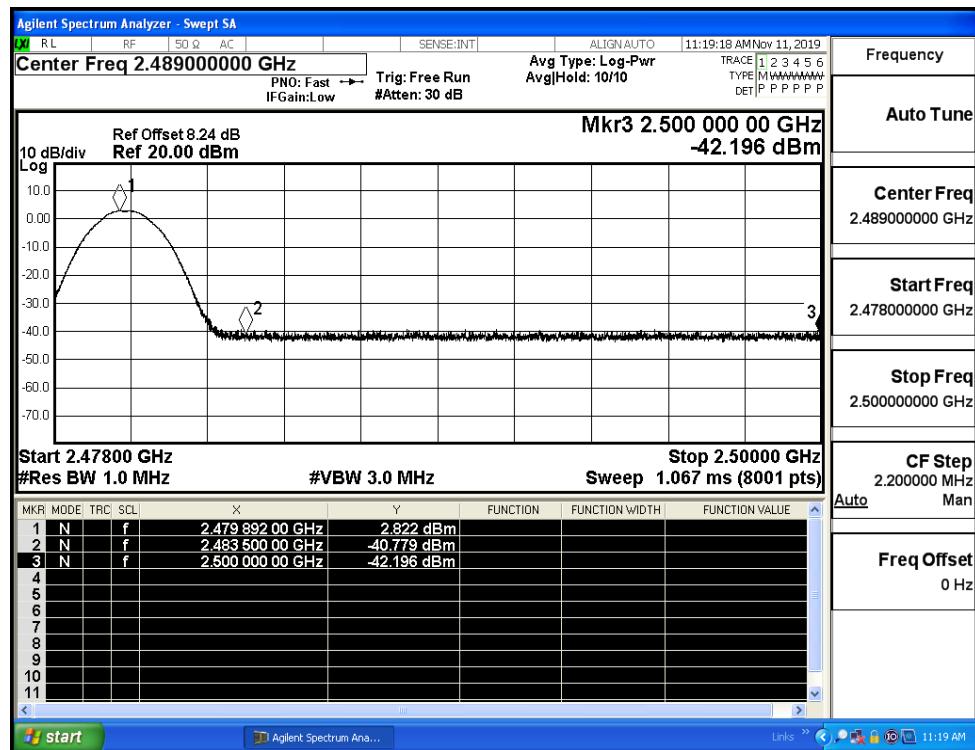
Restrict-band band-edge measurements_Hopping Off_π/4-DQPSK_PEAK (Low Channel)



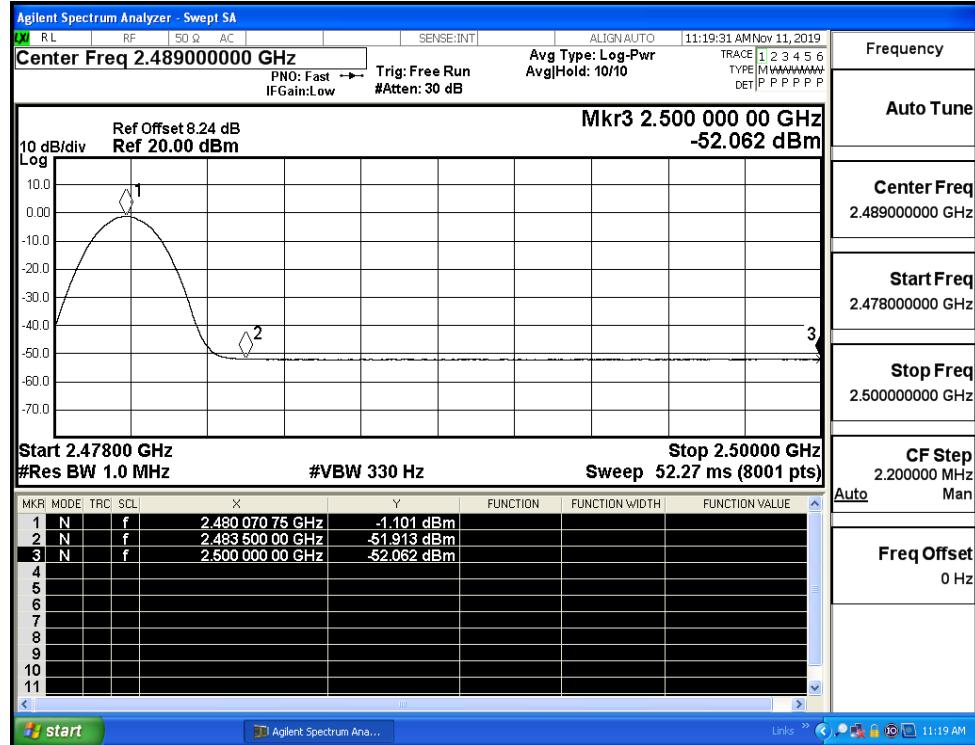
Restrict-band band-edge measurements_Hopping Off_π/4-DQPSK_Average (Low Channel)



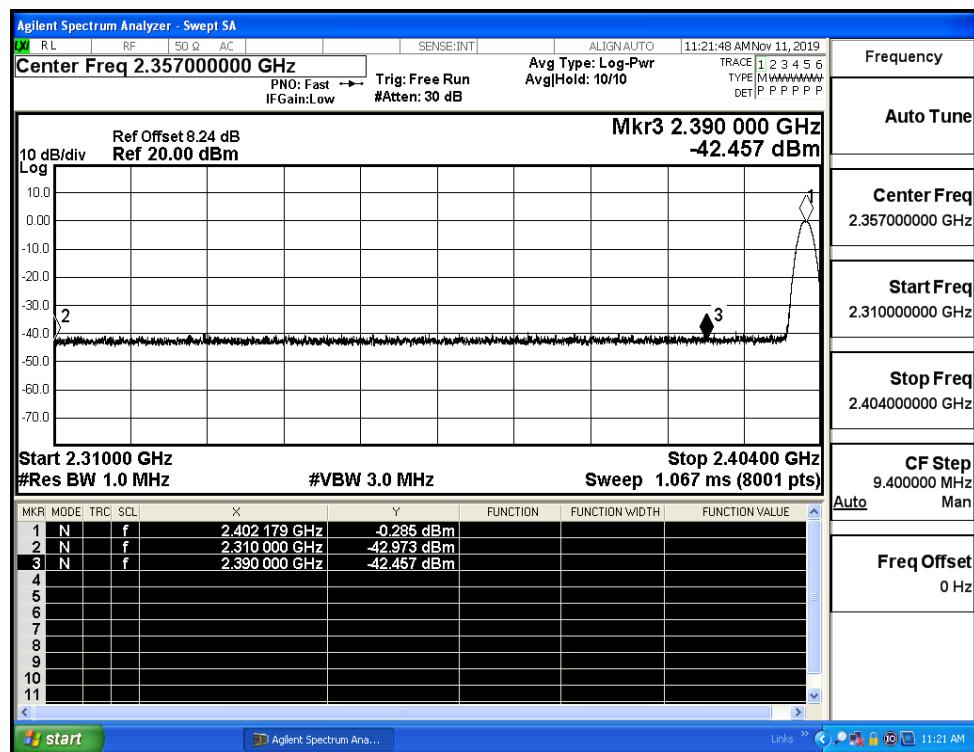
Restrict-band band-edge measurements_Hopping Off_π/4-DQPSK_PEAK (High Channel)



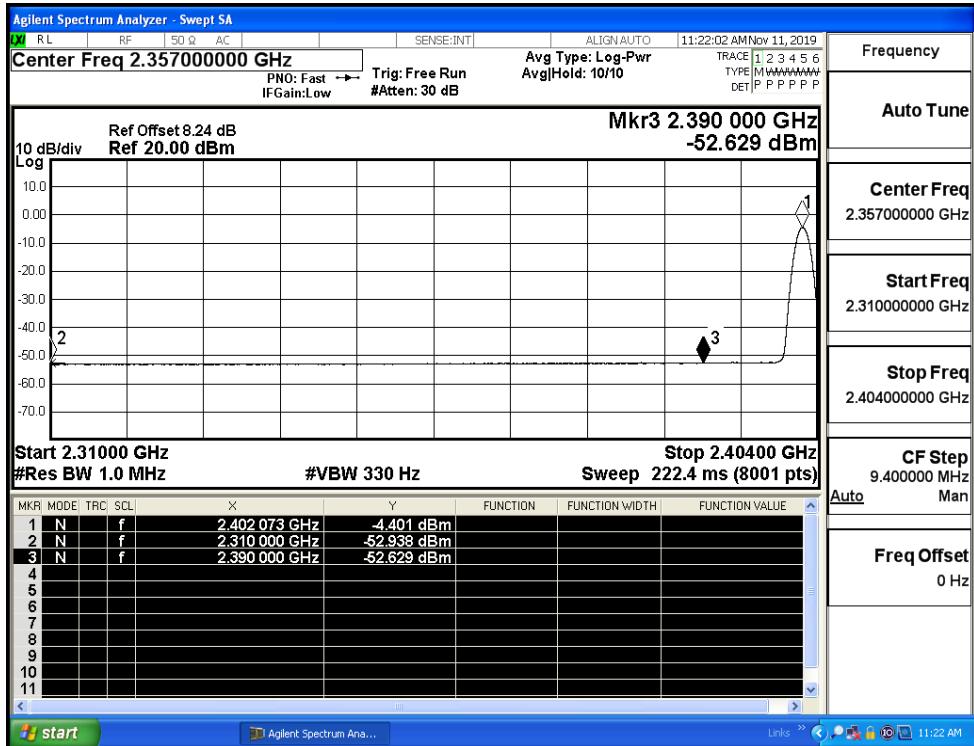
Restrict-band band-edge measurements_Hopping Off_π/4-DQPSK_Average (High Channel)



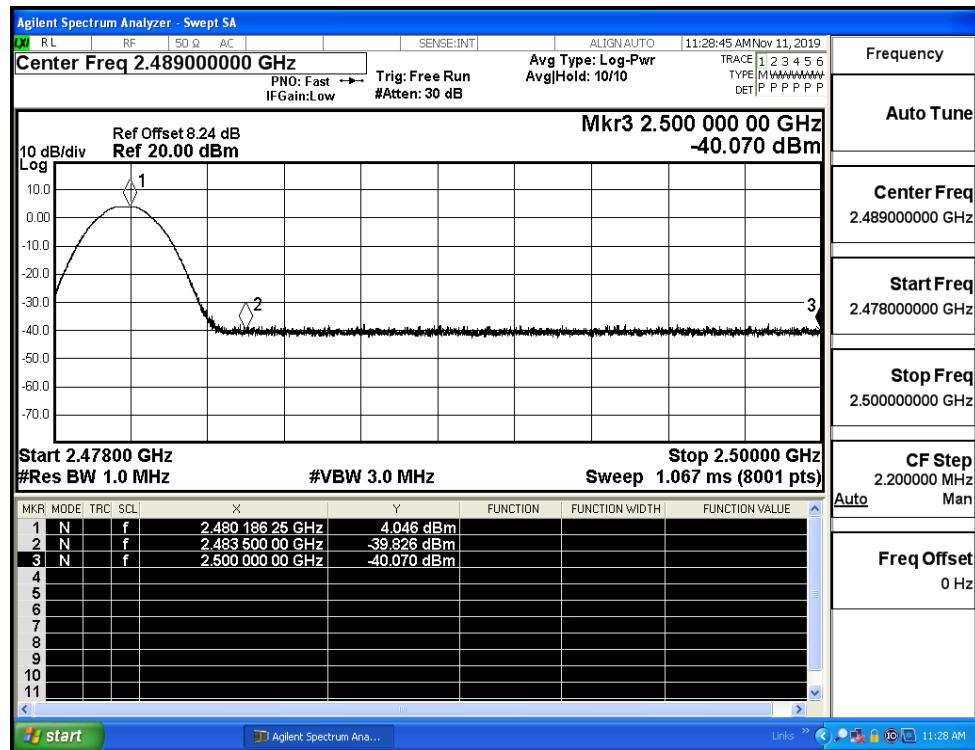
Restrict-band band-edge measurements_Hopping Off_8DPSK_PEAK (Low Channel)



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)

