

## Appendix A

### RF Test Data for BT V2.1 (BDR/EDR) (Conducted Measurement)

Product Name: Feature phone

Trade Mark: KENXINDA

Test Model: C3330

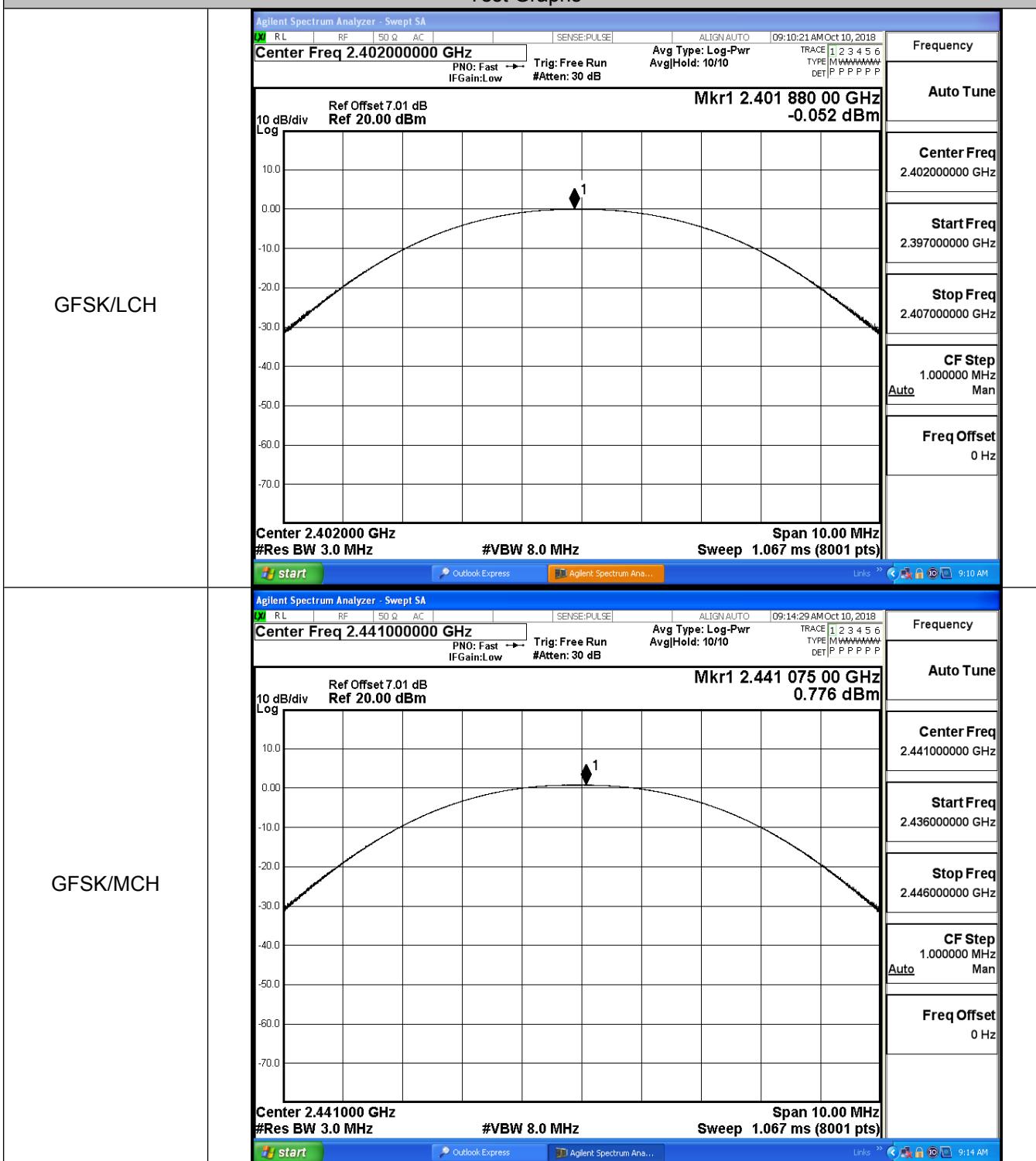
#### Environmental Conditions

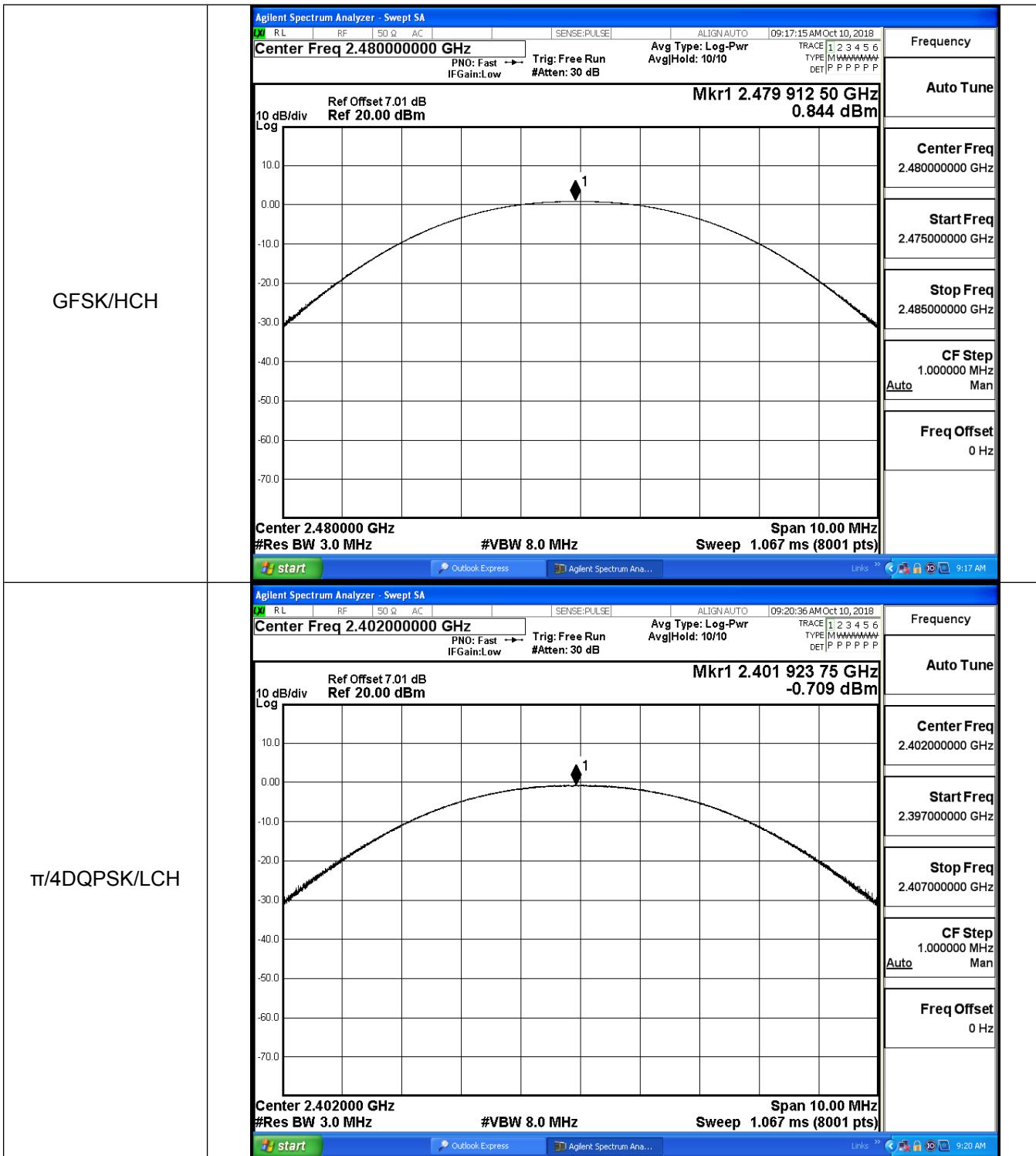
Temperature:	25.3°C
Relative Humidity:	54.3%
ATM Pressure:	100.0 kPa
Test Engineer:	Diamond.Lu
Supervised by:	Jayden.Zhuo

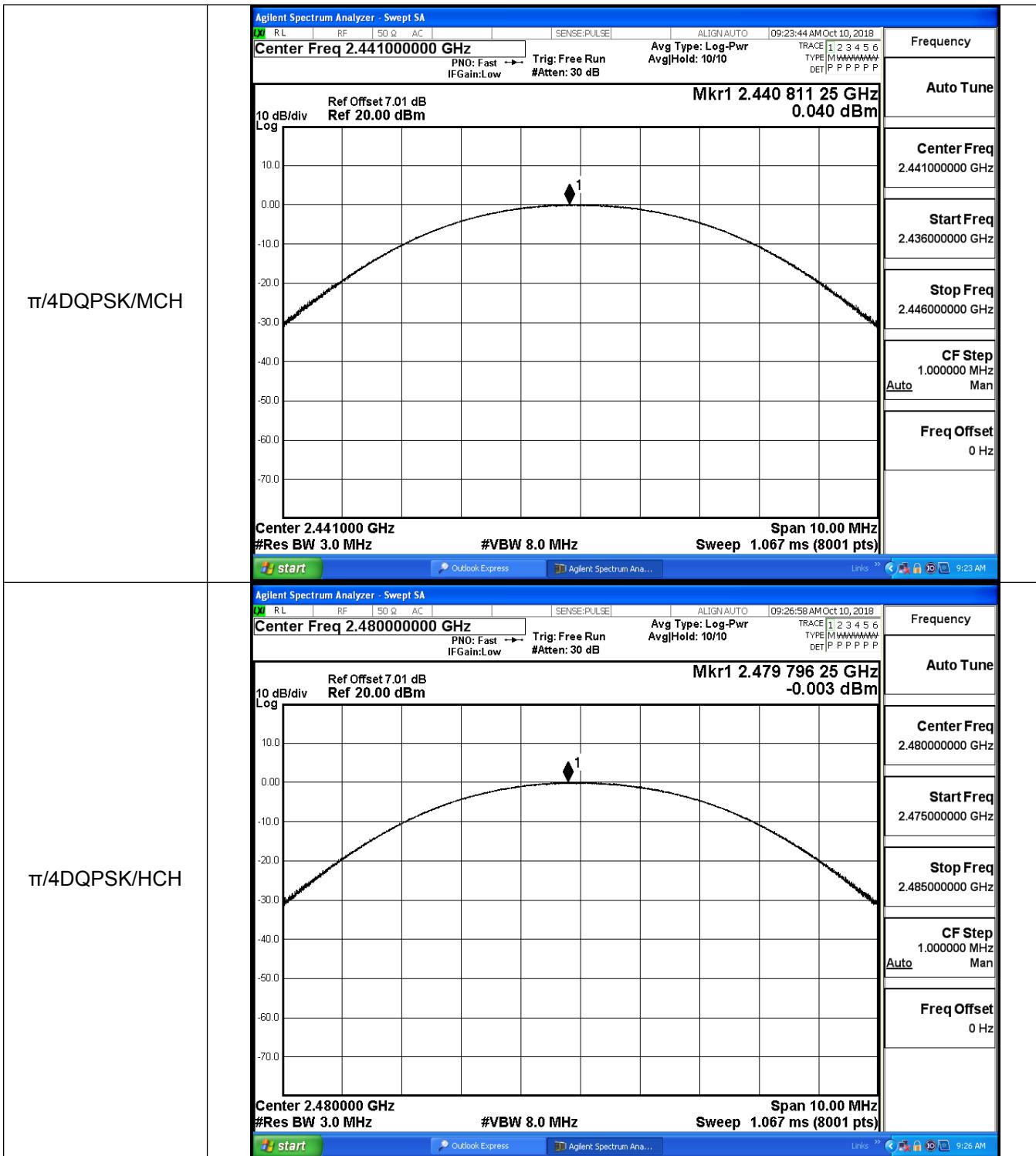
#### A.1 Maximum Conducted Peak Output Power

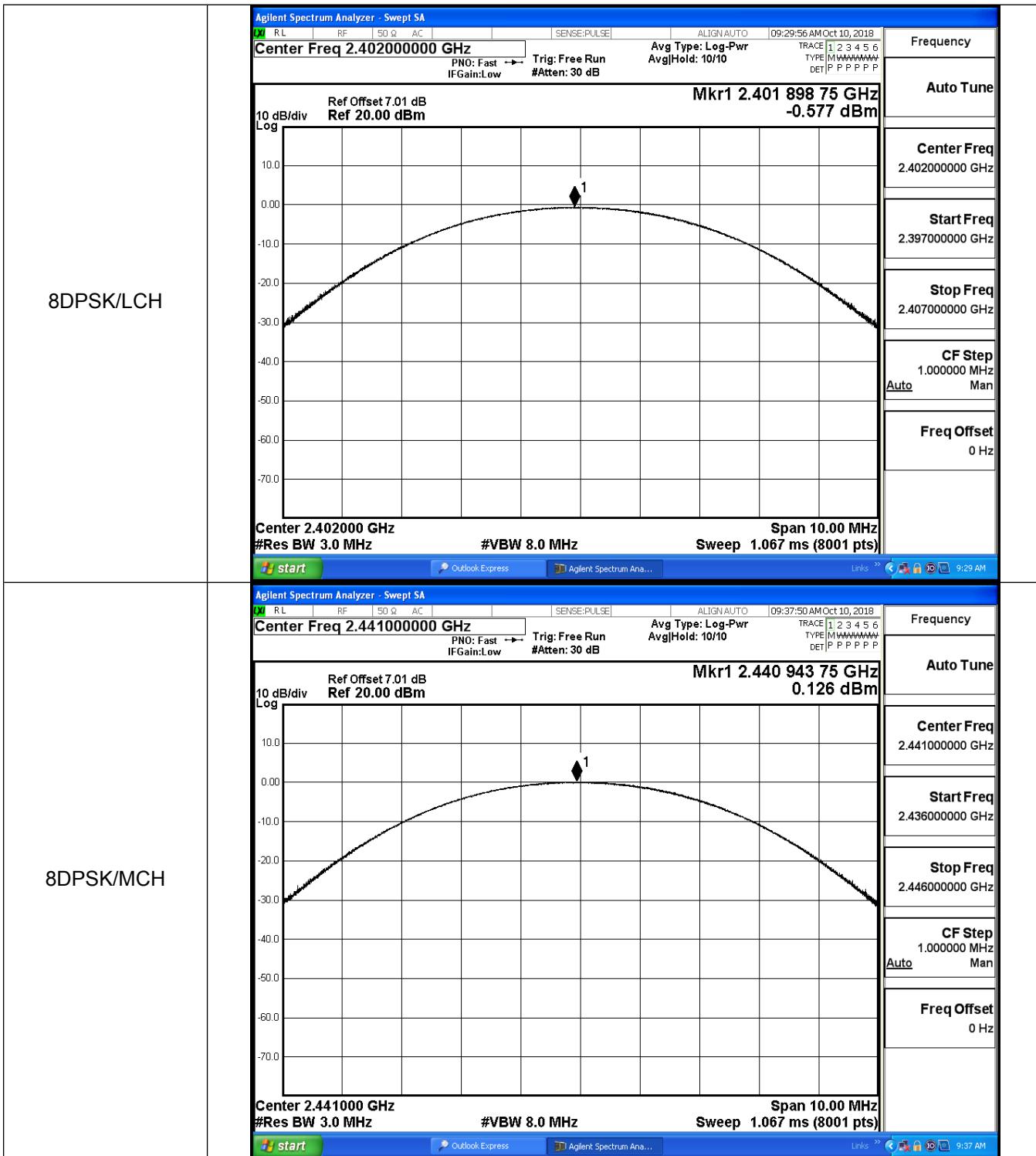
Mode	Channel.	Maximum Peak Output Power [dBm]	Limit [dBm]	Verdict
GFSK	LCH	-0.052	30	PASS
	MCH	0.776	30	PASS
	HCH	0.844	30	PASS
$\pi/4$ DQPSK	LCH	-0.709	21	PASS
	MCH	0.040	21	PASS
	HCH	-0.003	21	PASS
8DPSK	LCH	-0.577	21	PASS
	MCH	0.126	21	PASS
	HCH	0.053	21	PASS

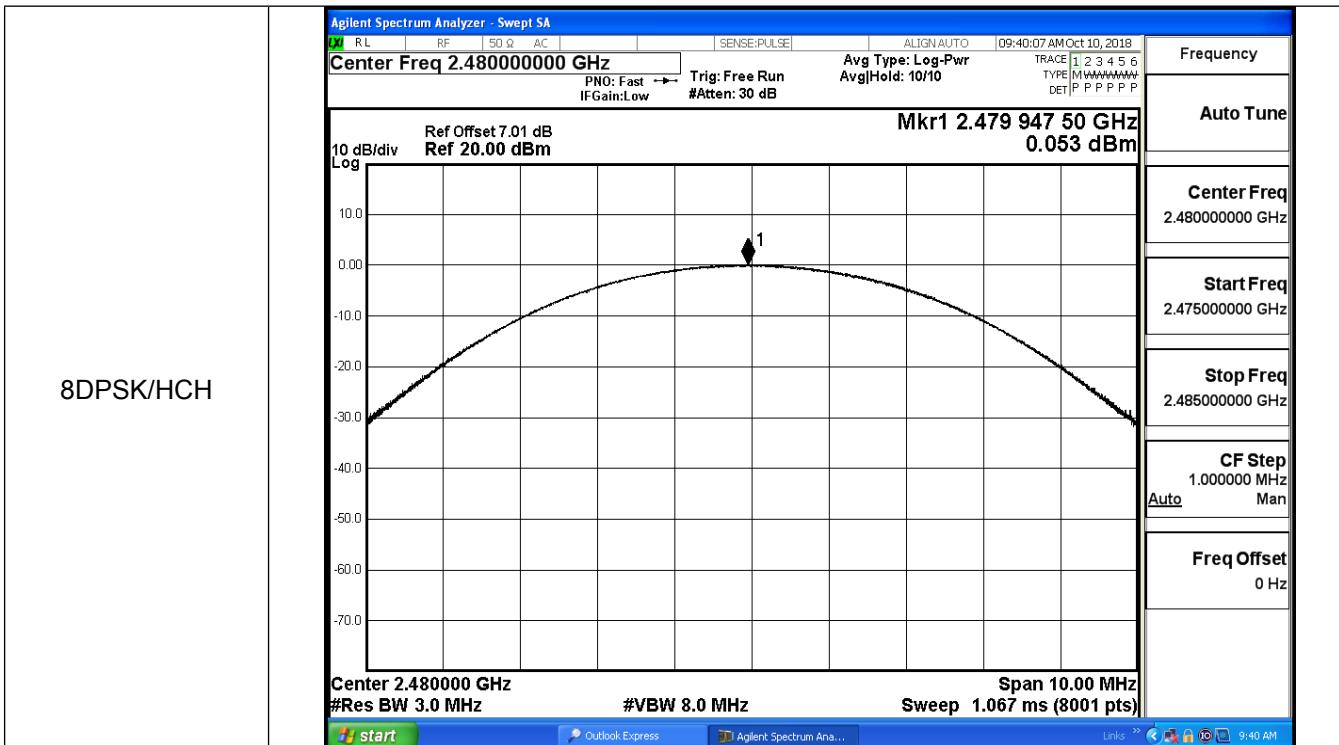
## Test Graphs





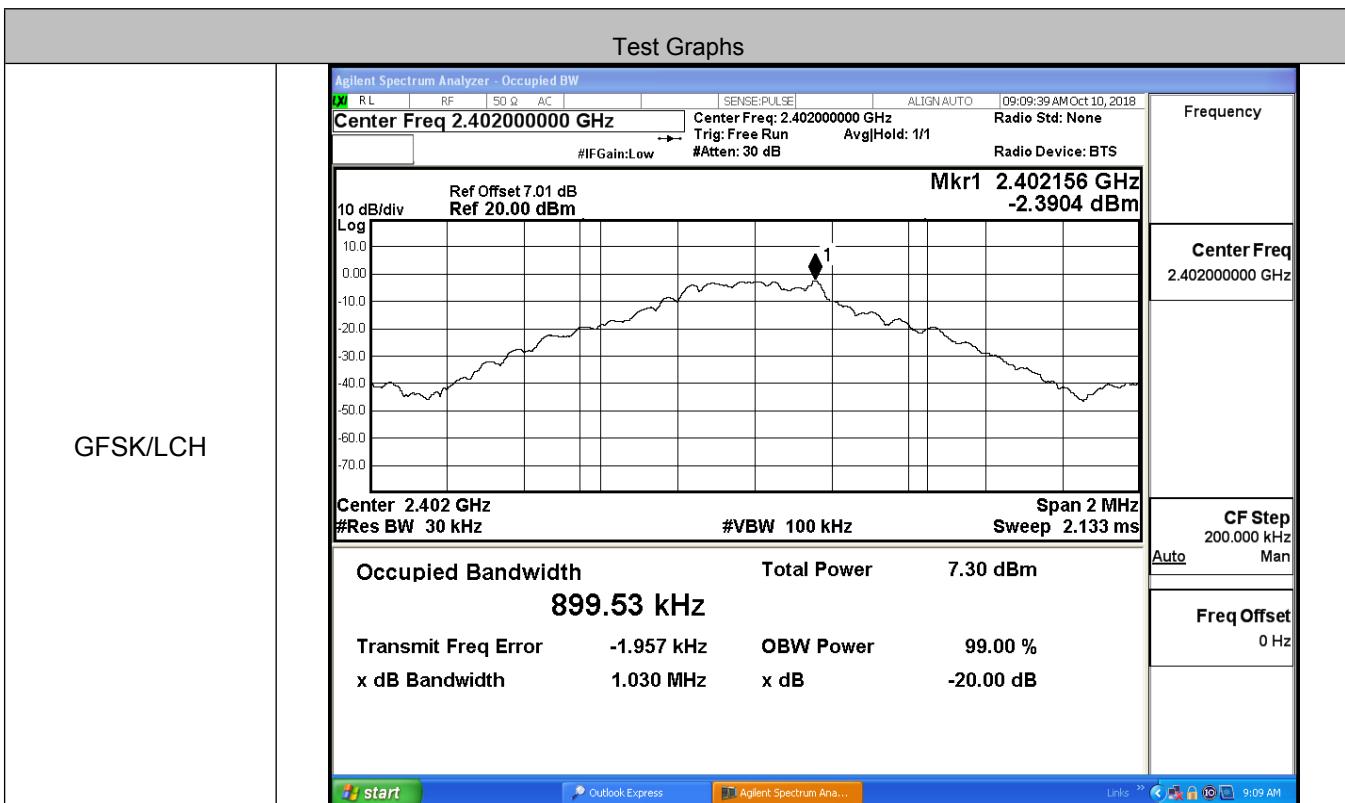


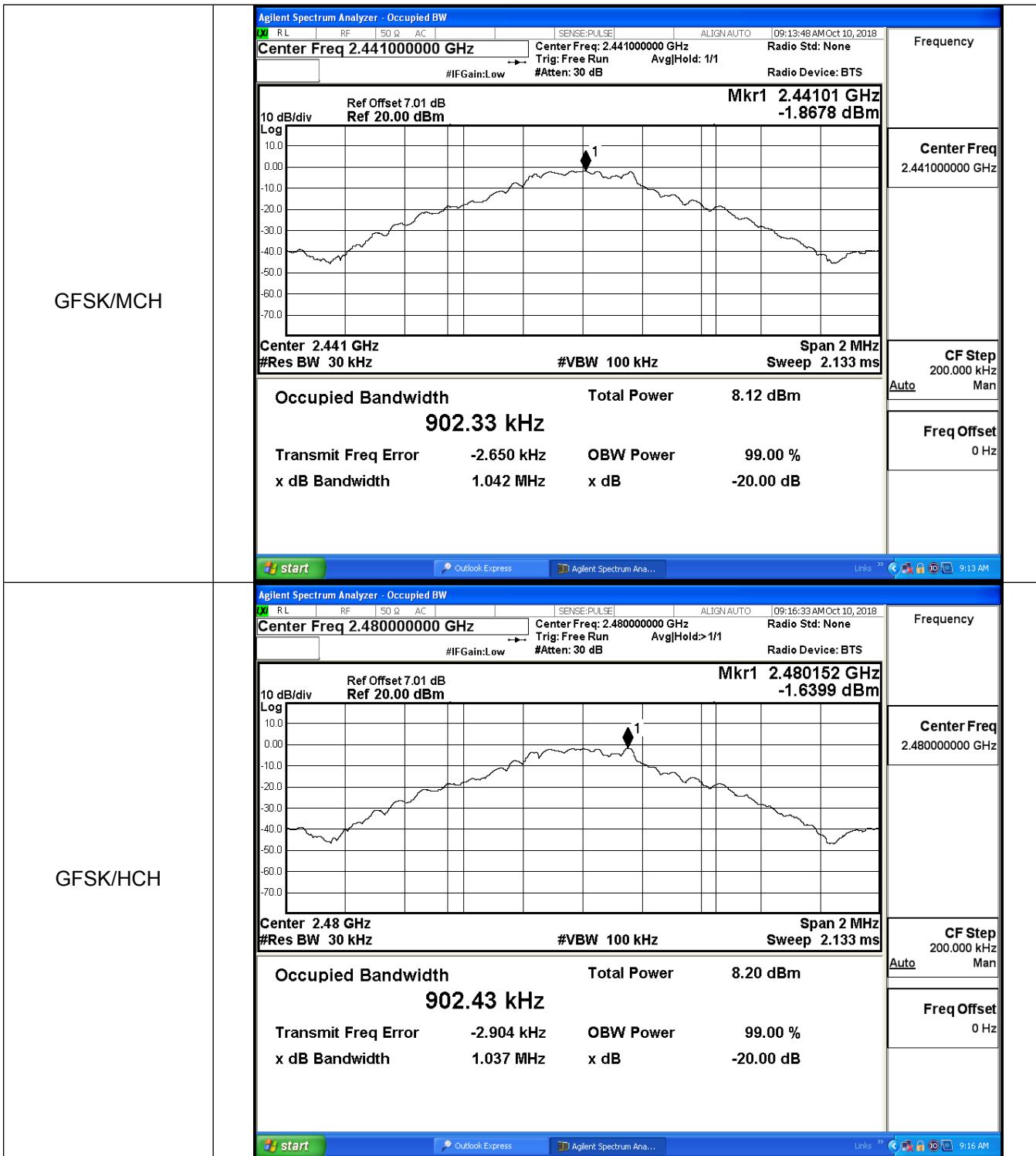


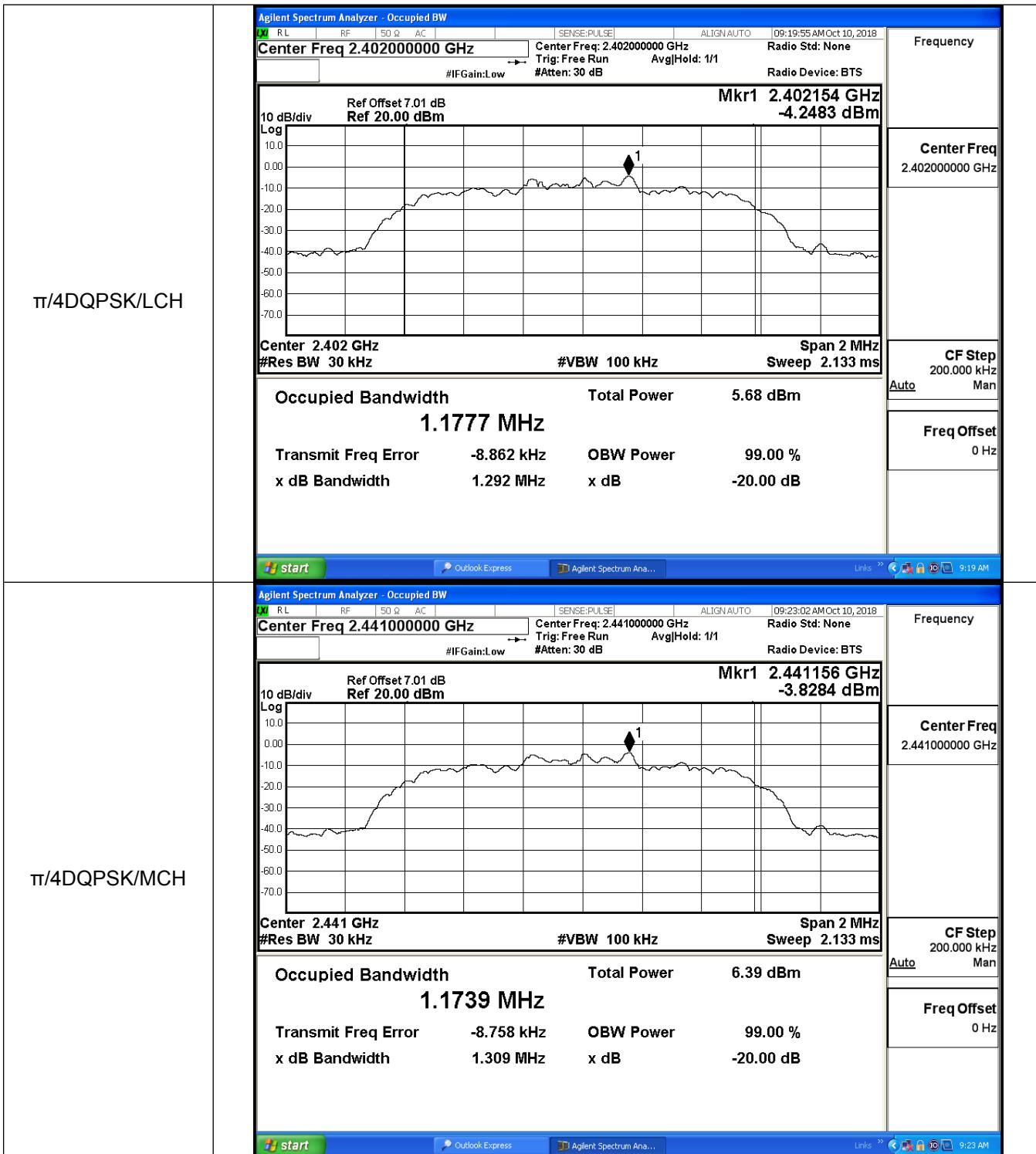


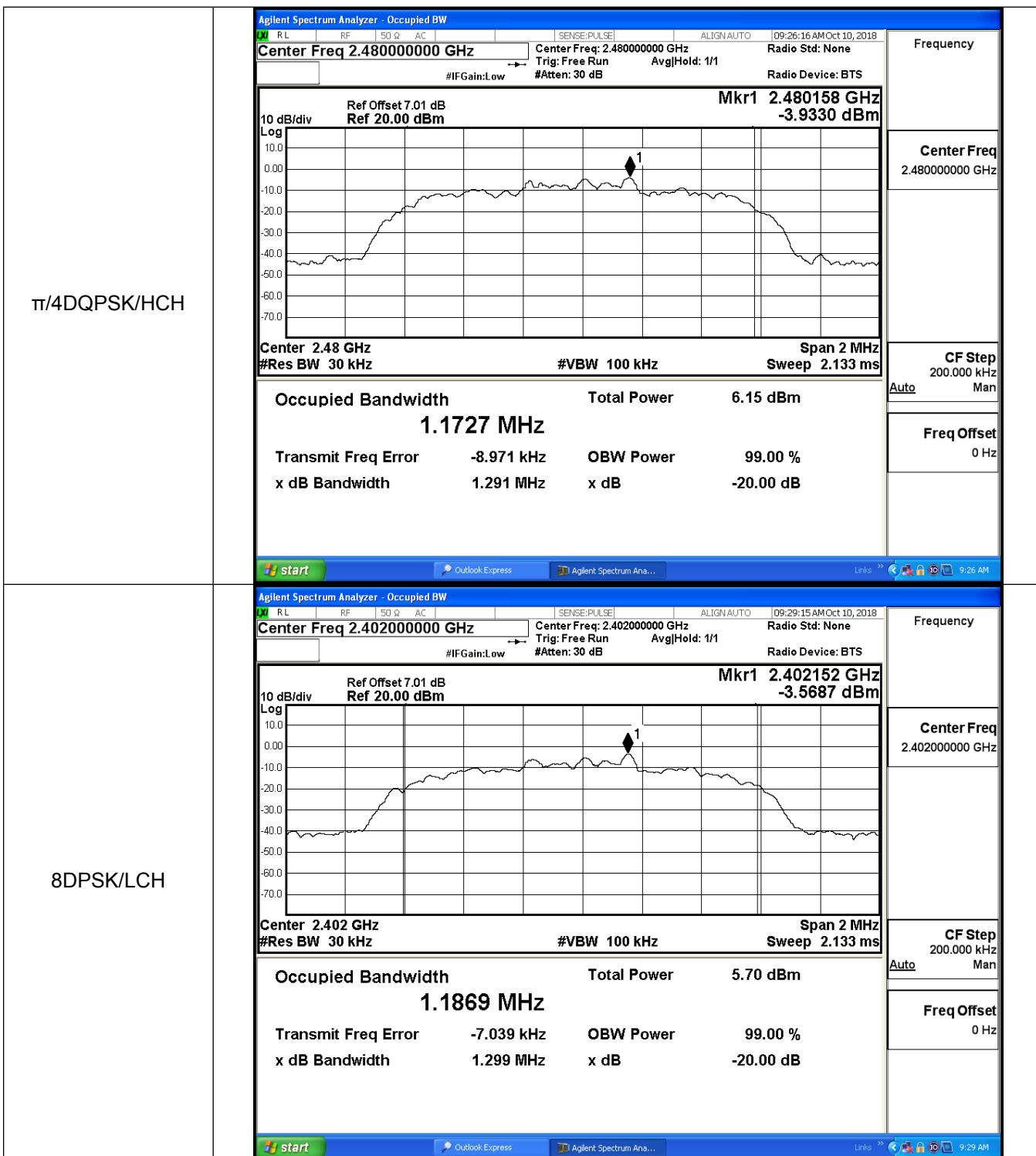
## A.2 20dB Bandwidth

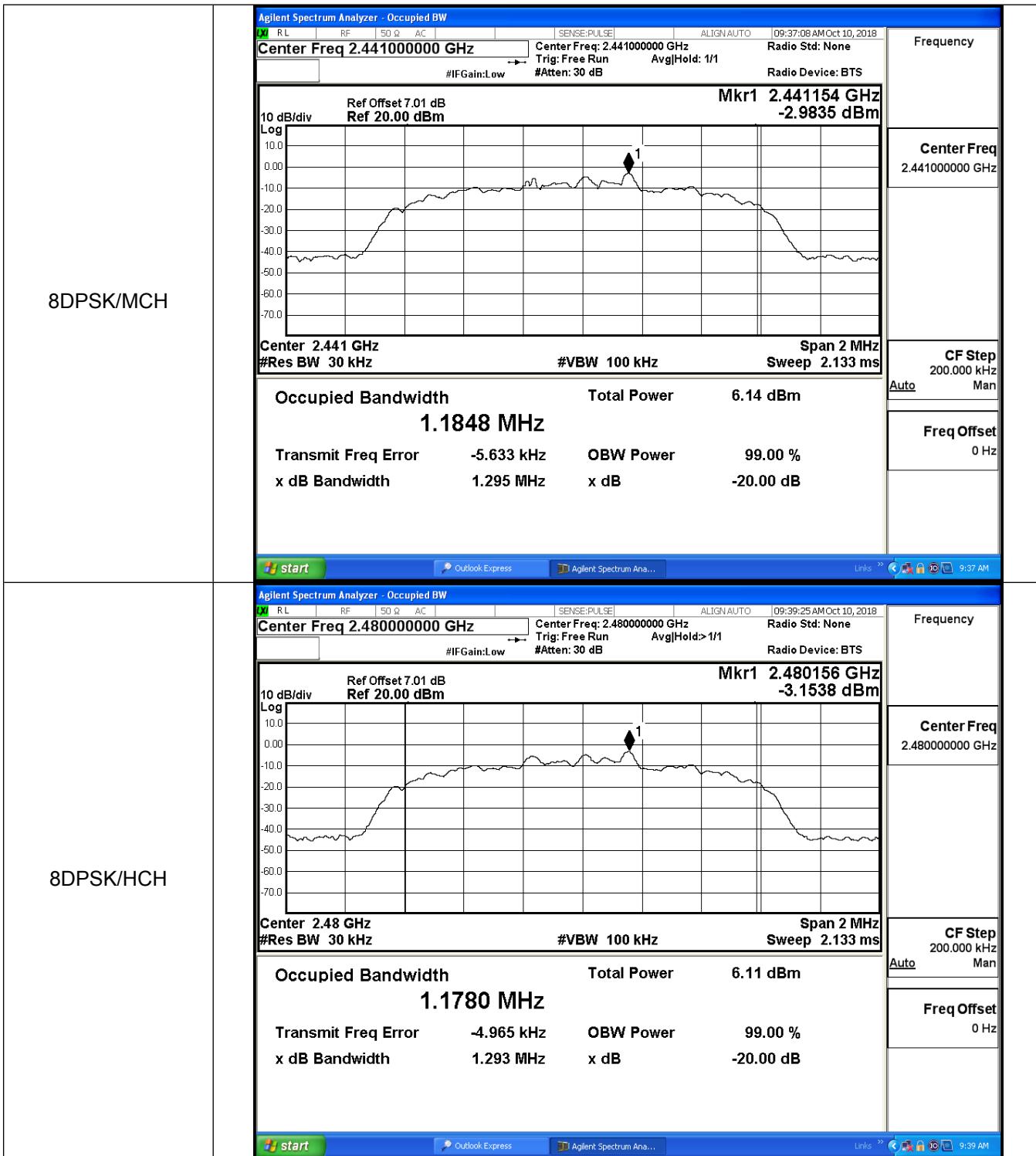
Mode	Channel.	20dB Bandwidth [MHz]	Limit [MHz]	Verdict
GFSK	LCH	1.030	Not Specified	PASS
	MCH	1.042	Not Specified	PASS
	HCH	1.037	Not Specified	PASS
$\pi/4$ DQPSK	LCH	1.292	Not Specified	PASS
	MCH	1.309	Not Specified	PASS
	HCH	1.291	Not Specified	PASS
8DPSK	LCH	1.299	Not Specified	PASS
	MCH	1.295	Not Specified	PASS
	HCH	1.293	Not Specified	PASS





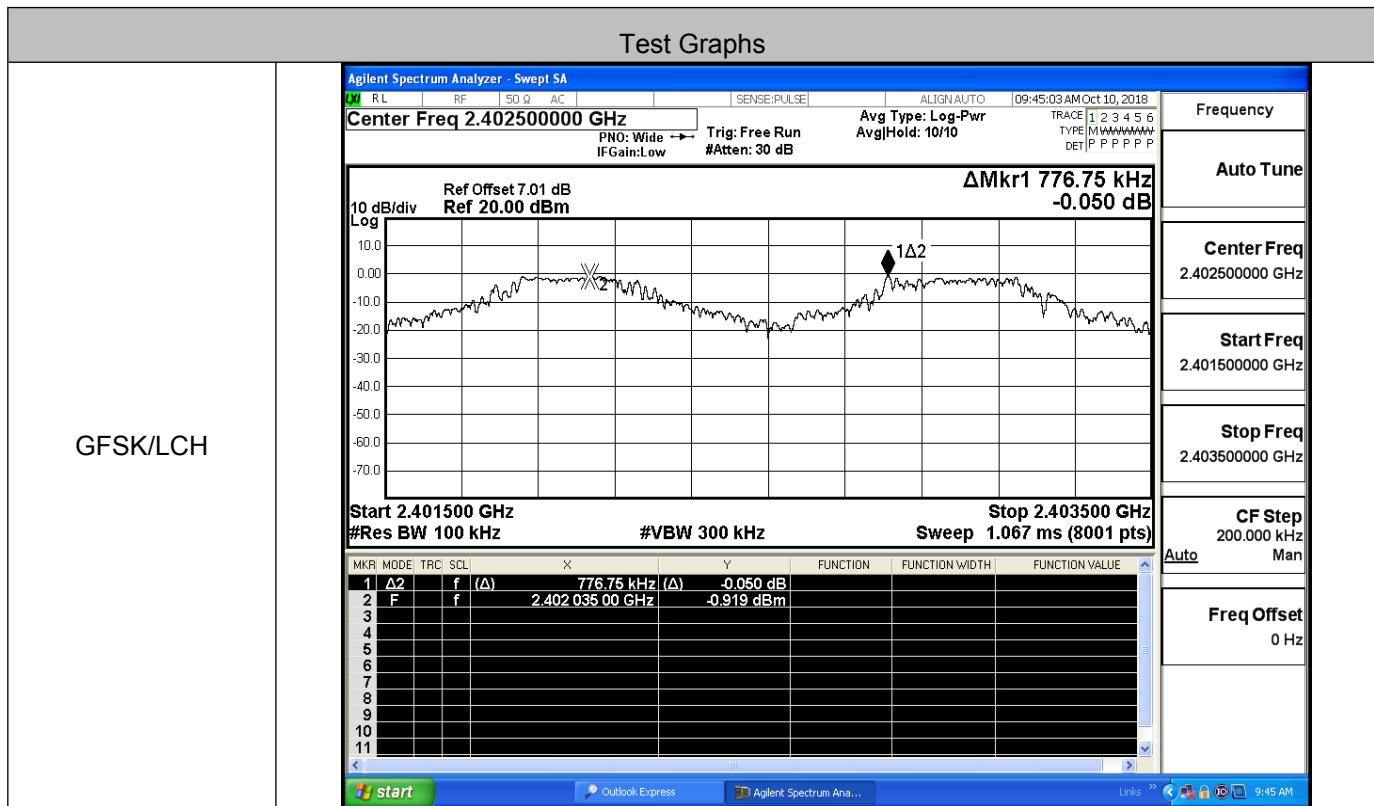




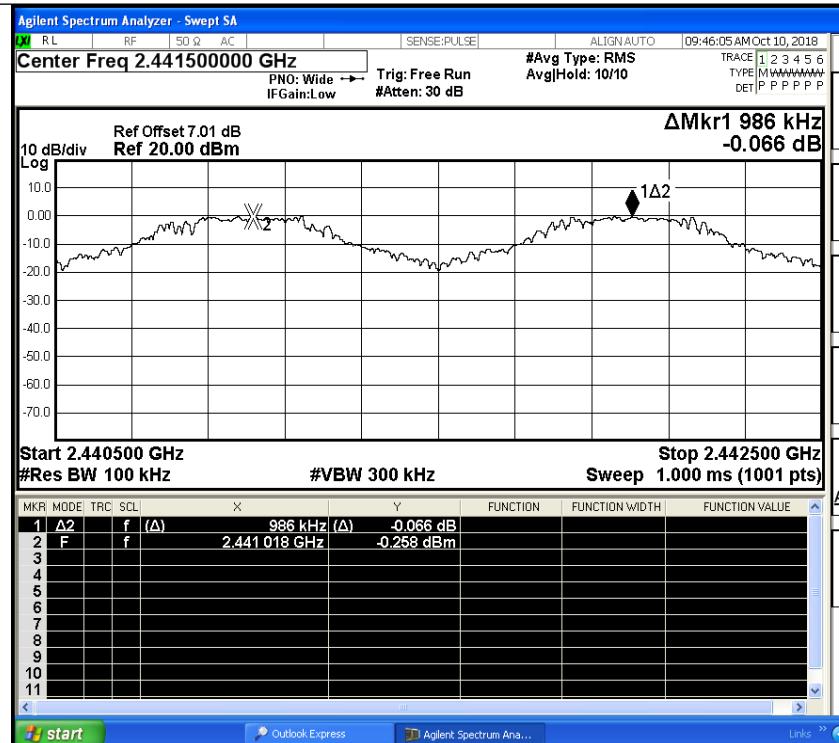


### A.3 Carrier Frequency Separation

Mode	Channel.	Carrier Frequency Separation [MHz]	Limit [MHz]	Verdict
GFSK	LCH	0.777	0.695	PASS
	MCH	0.986	0.695	PASS
	HCH	0.844	0.695	PASS
$\pi/4$ DQPSK	LCH	1.114	0.873	PASS
	MCH	0.942	0.873	PASS
	HCH	0.918	0.873	PASS
8DPSK	LCH	0.870	0.866	PASS
	MCH	1.084	0.866	PASS
	HCH	0.986	0.866	PASS

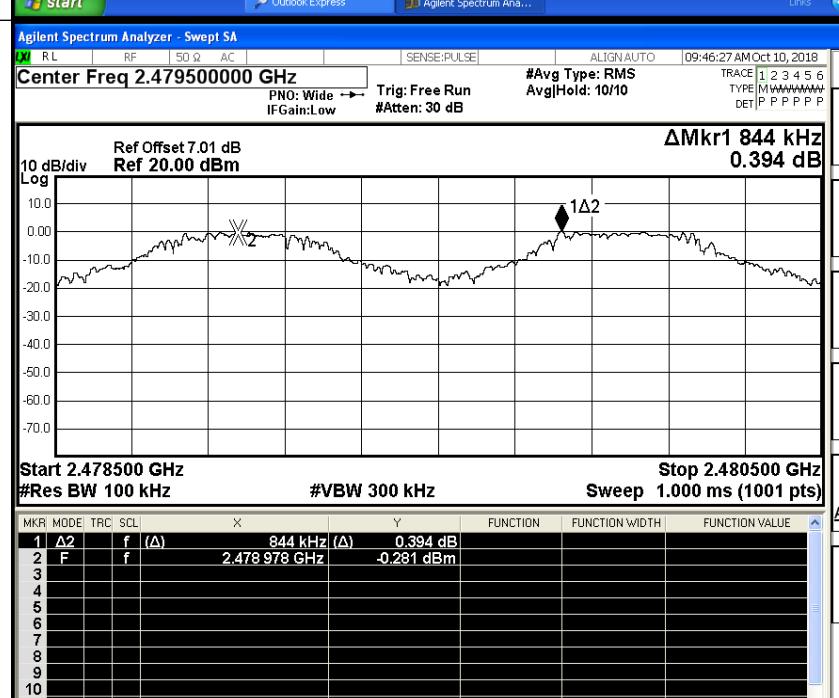


GFSK/MCH

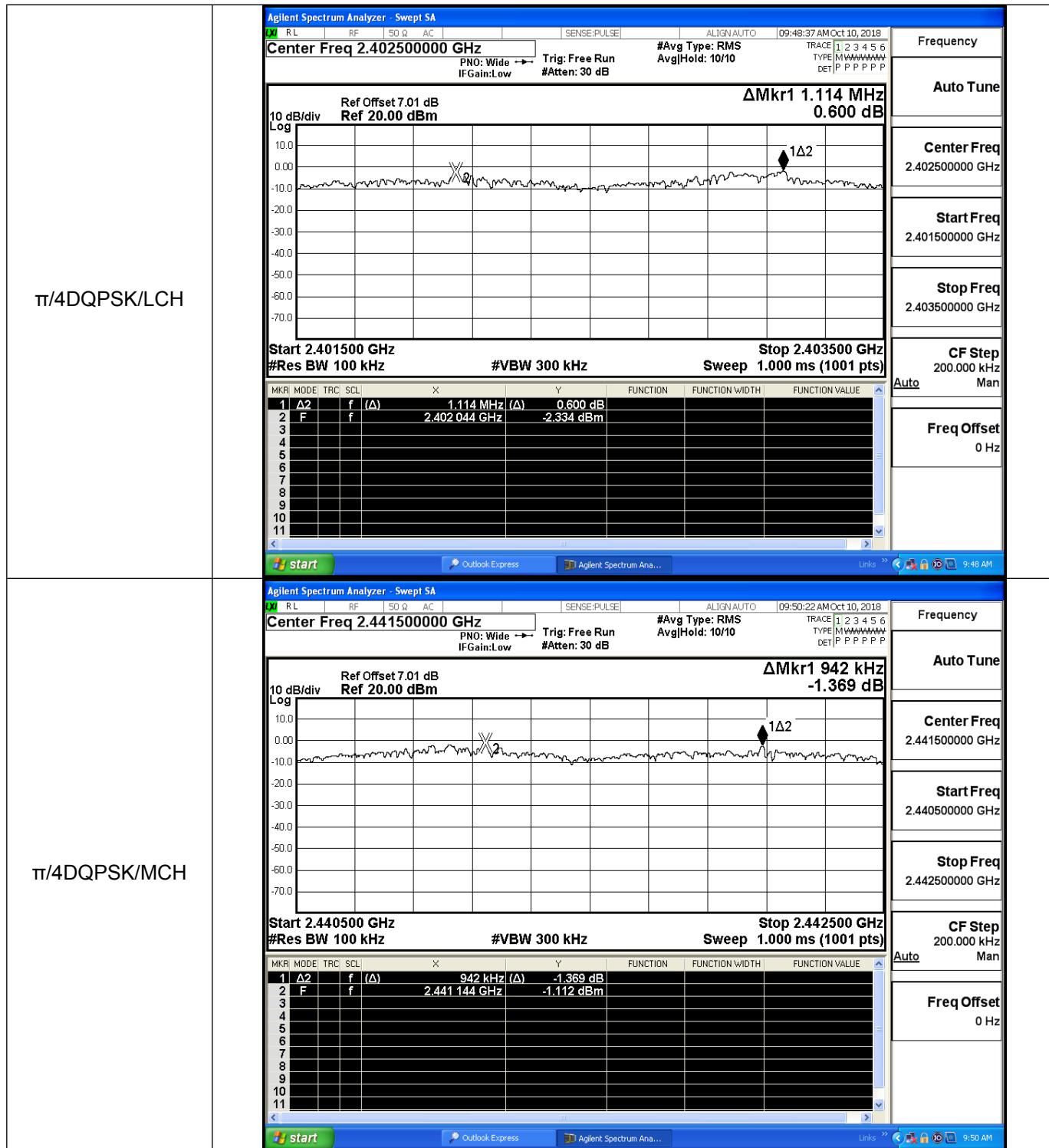


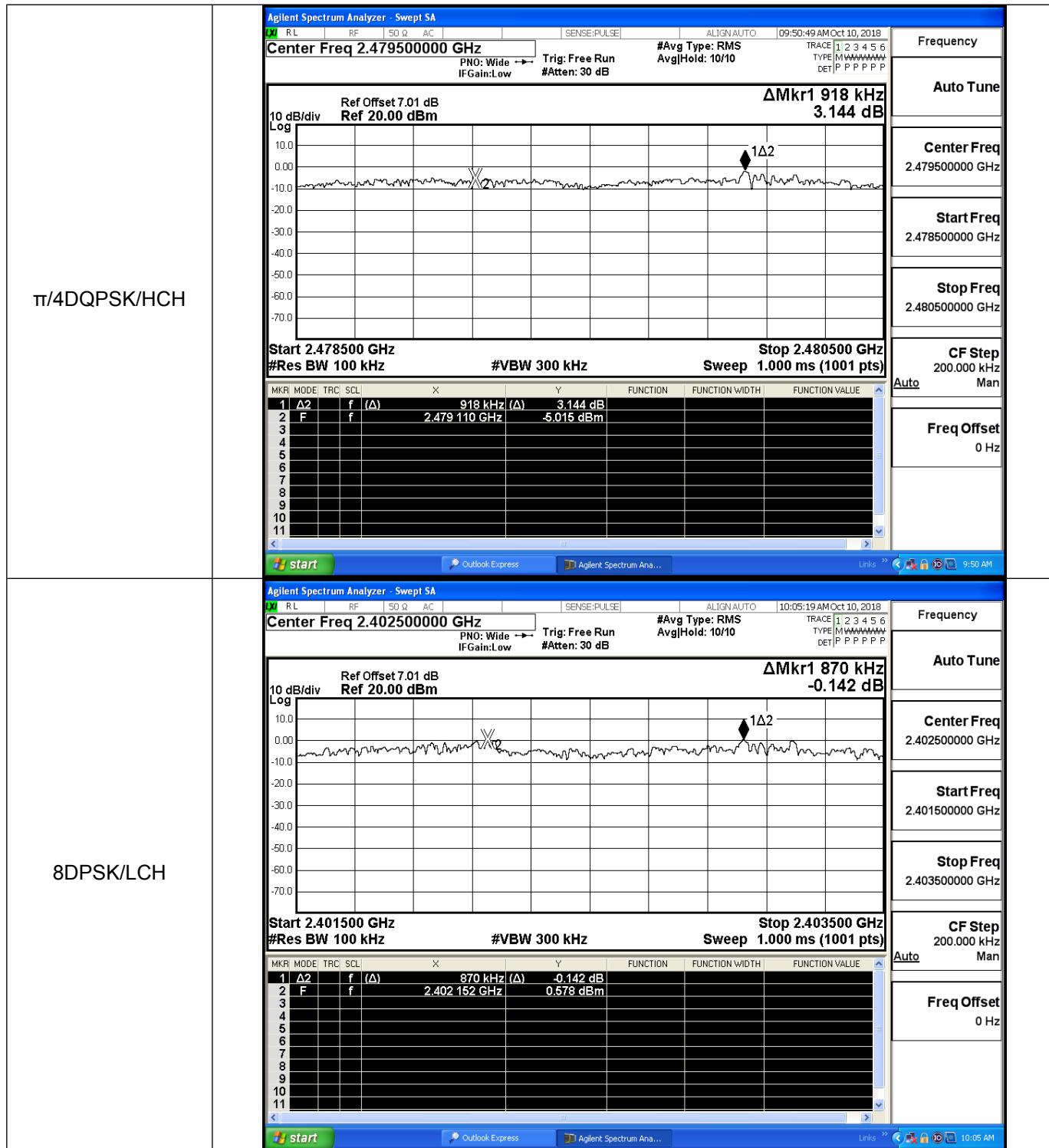
Frequency
Auto Tune
Center Freq 2.441500000 GHz
Start Freq 2.440500000 GHz
Stop Freq 2.442500000 GHz
CF Step 200.000 kHz Auto Man
Freq Offset 0 Hz

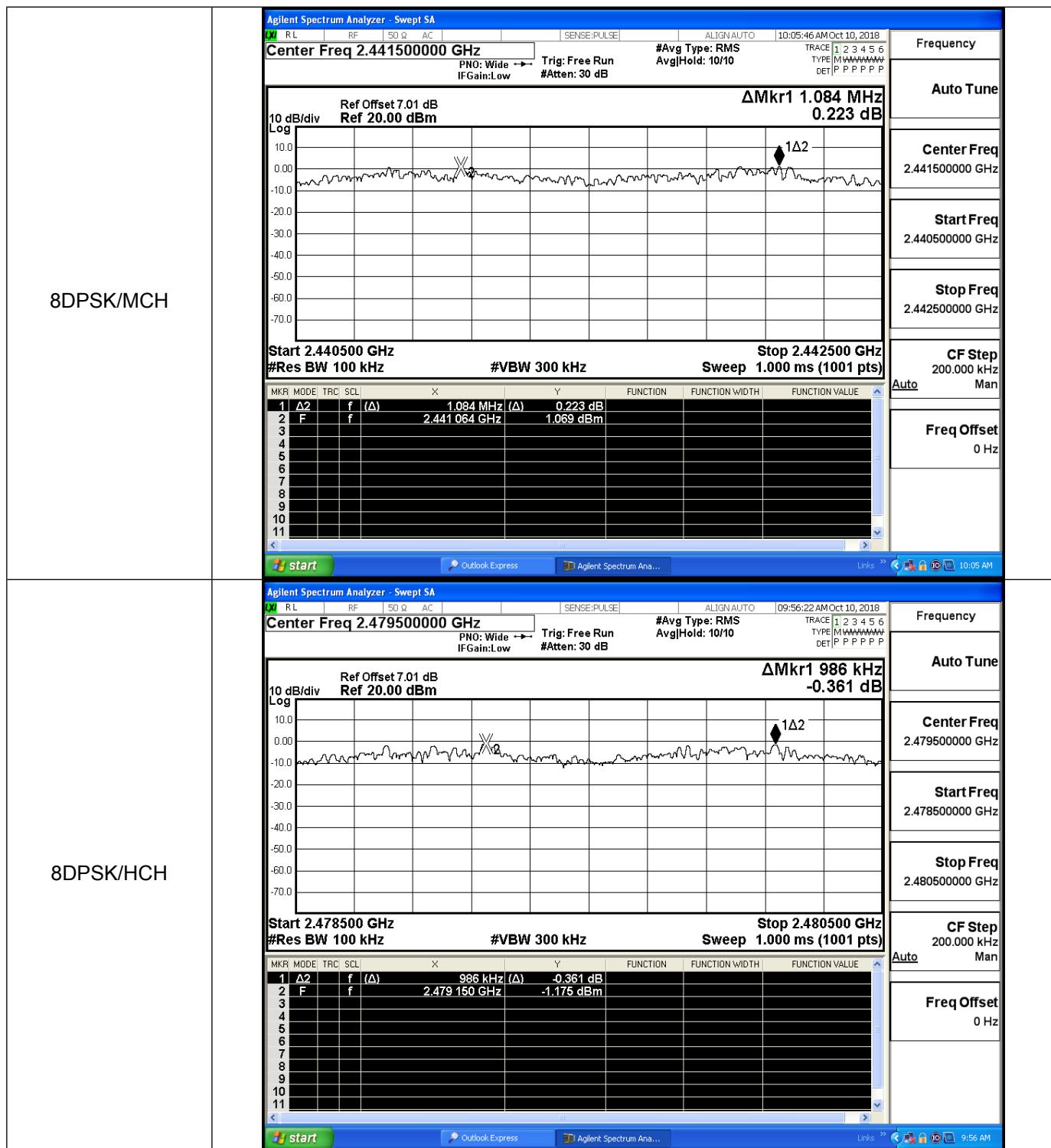
GFSK/HCH



Frequency
Auto Tune
Center Freq 2.479500000 GHz
Start Freq 2.478500000 GHz
Stop Freq 2.480500000 GHz
CF Step 200.000 kHz Auto Man
Freq Offset 0 Hz





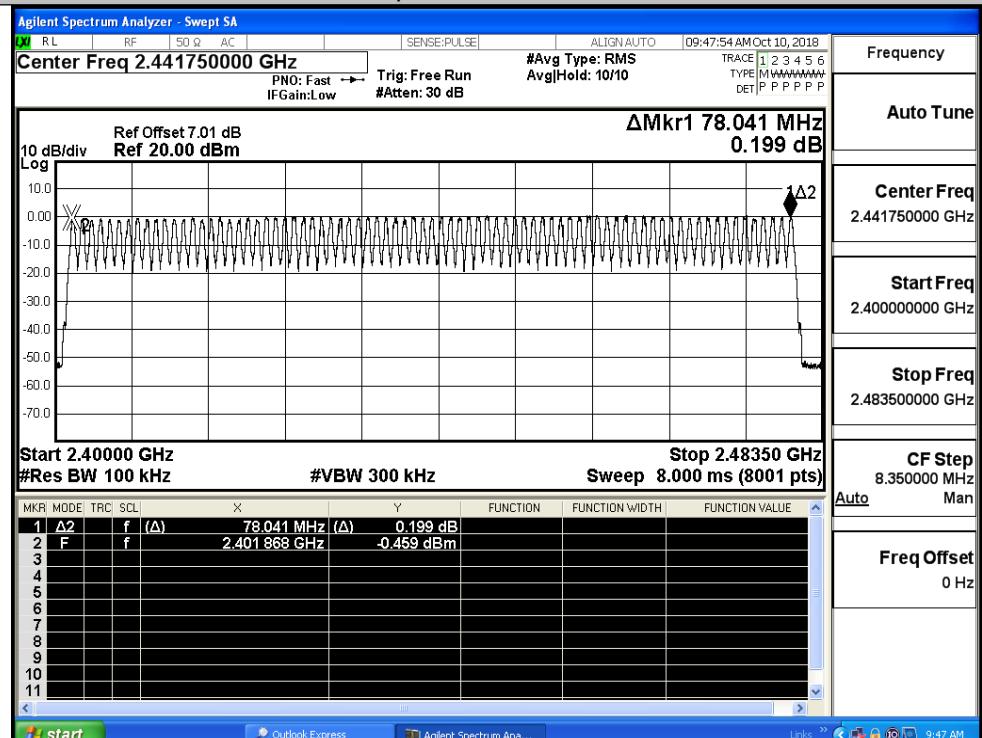


#### A.4 Hopping Channel Number

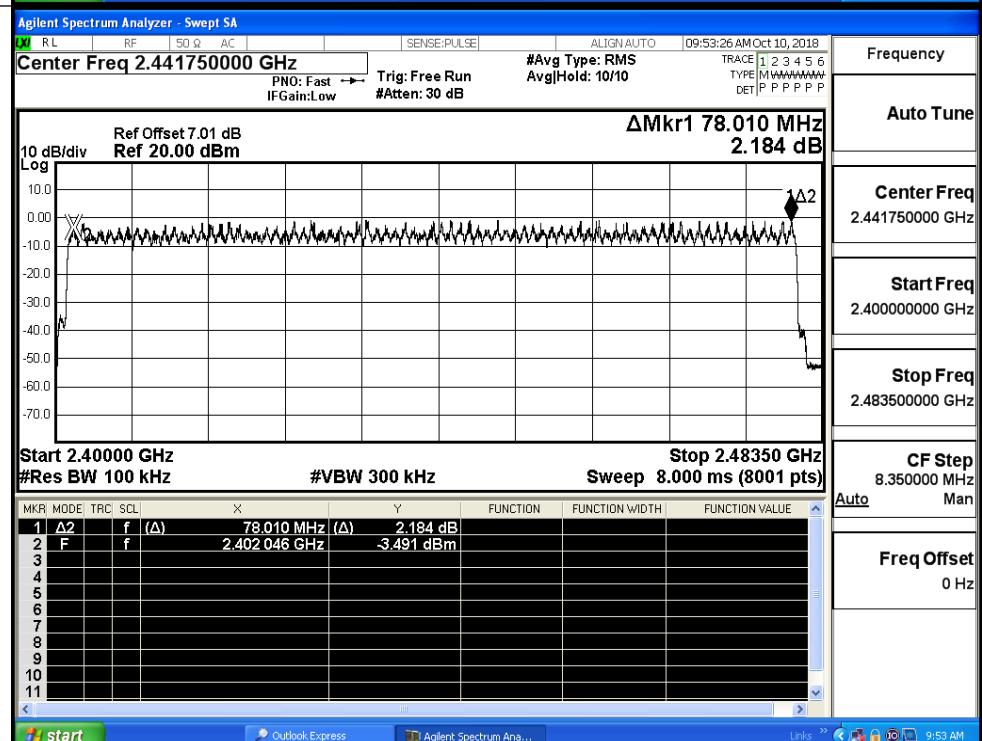
Mode	Channel.	Number of Hopping Channel [N]	Limit [N]	Verdict
GFSK	Hop	79	>=15	PASS
π/4DQPSK	Hop	79	>=15	PASS
8DPSK	Hop	79	>=15	PASS

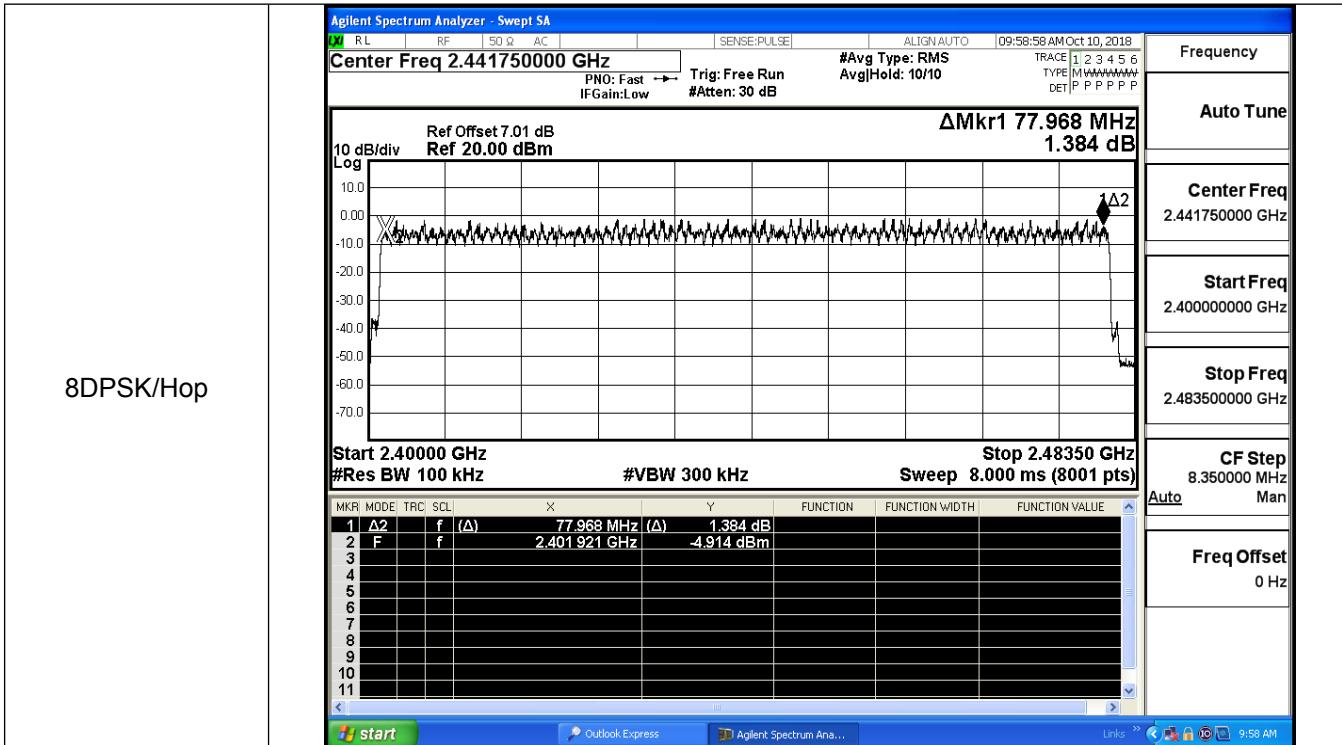
## Test Graphs

GFSK/Hop



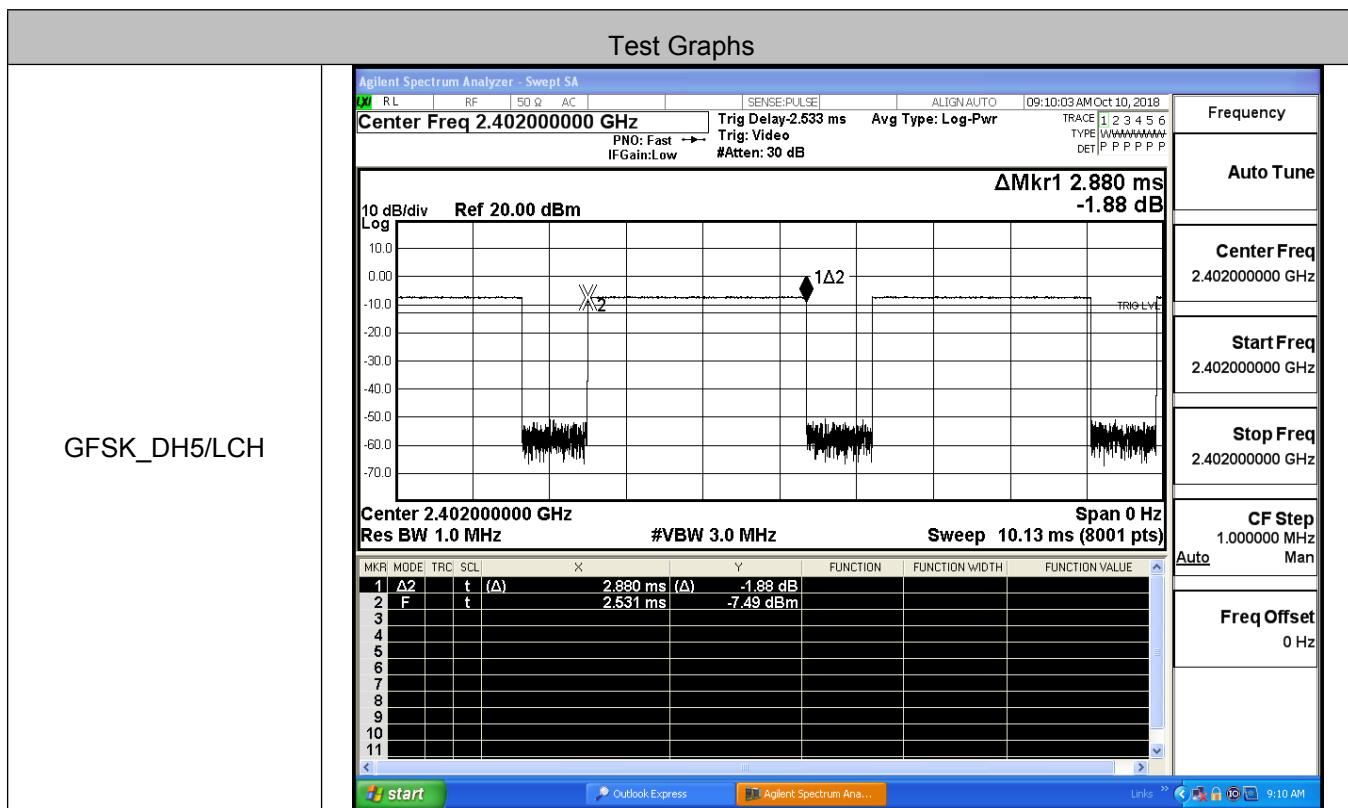
π/4DQPSK/Hop

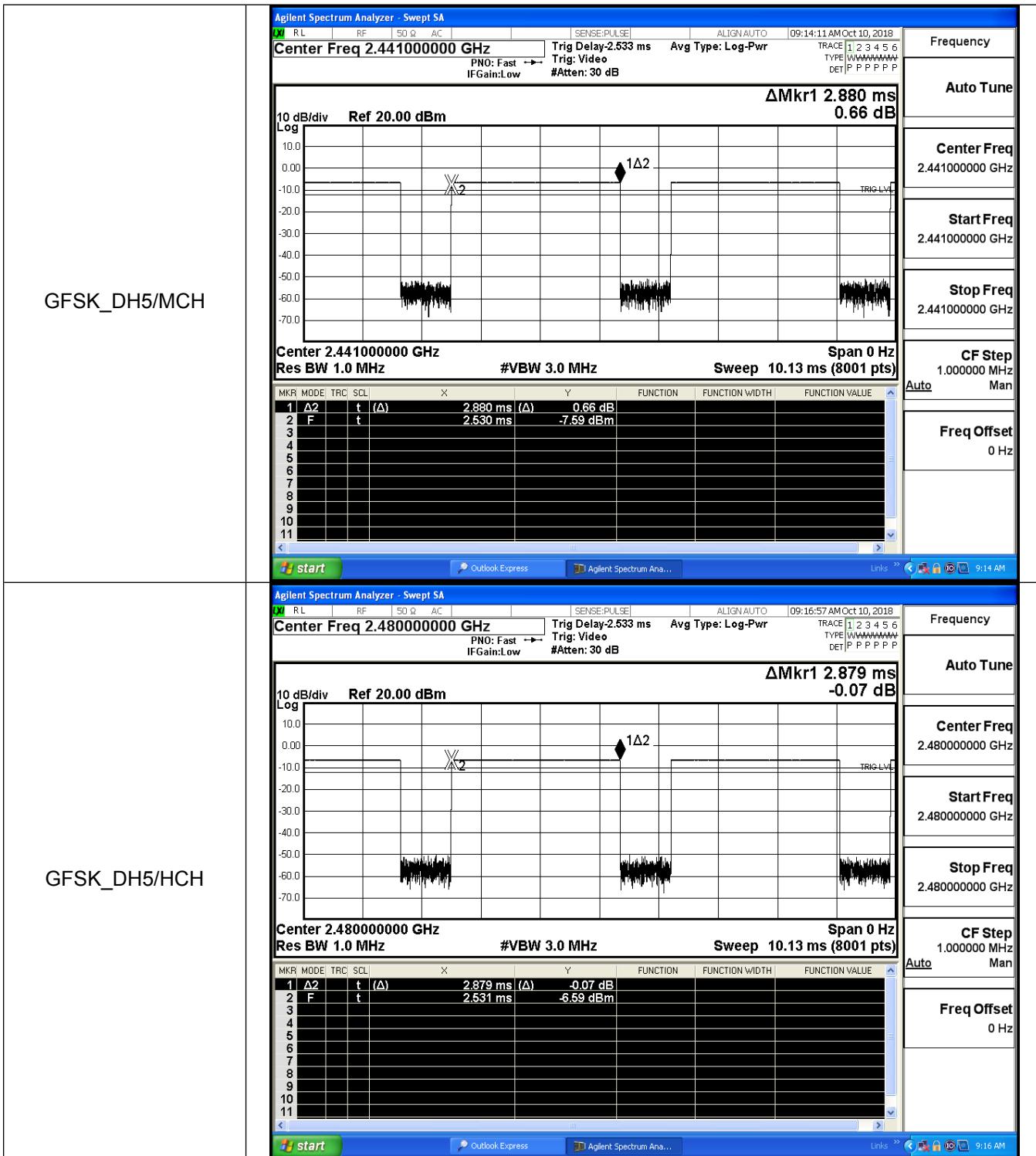


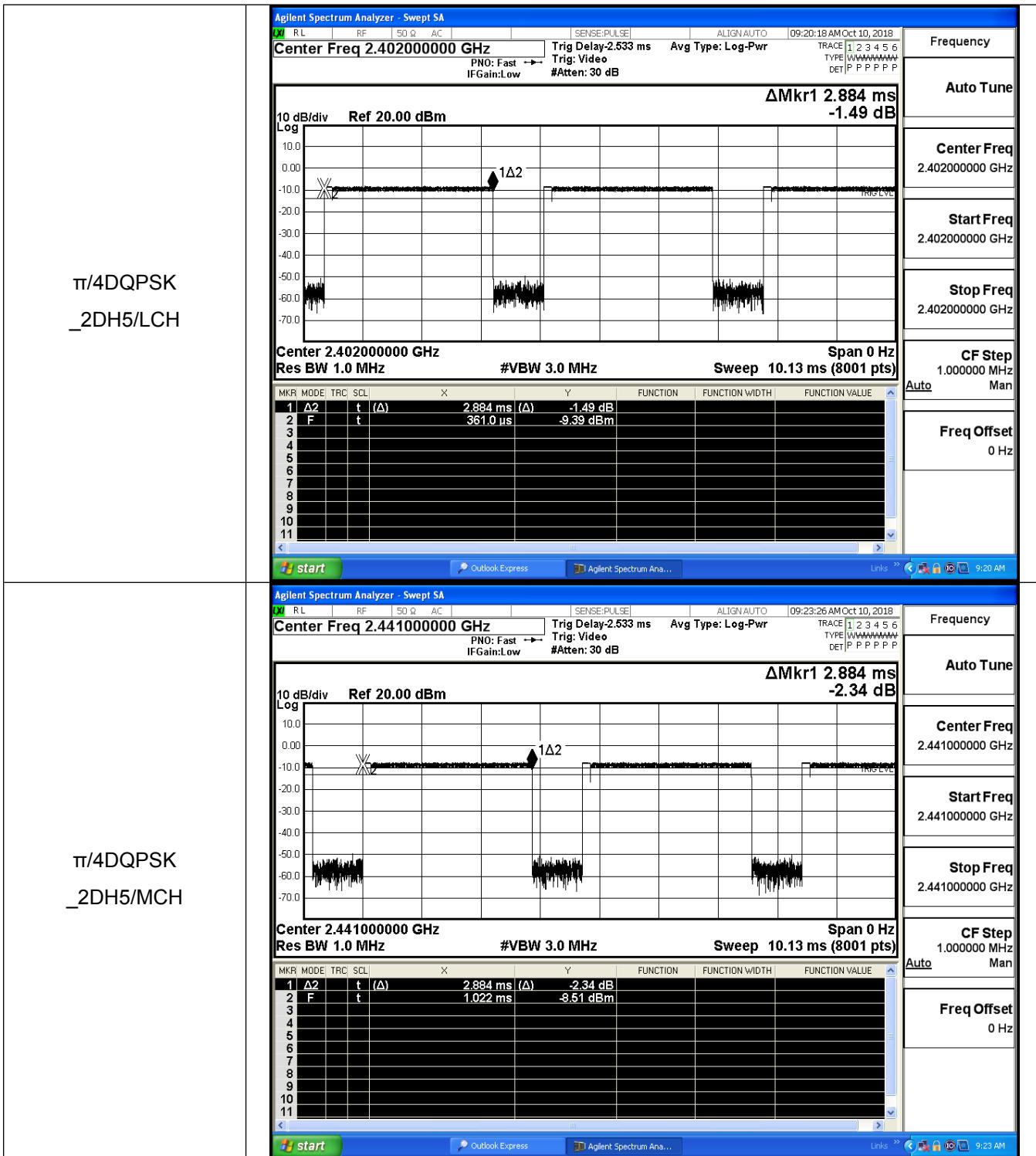


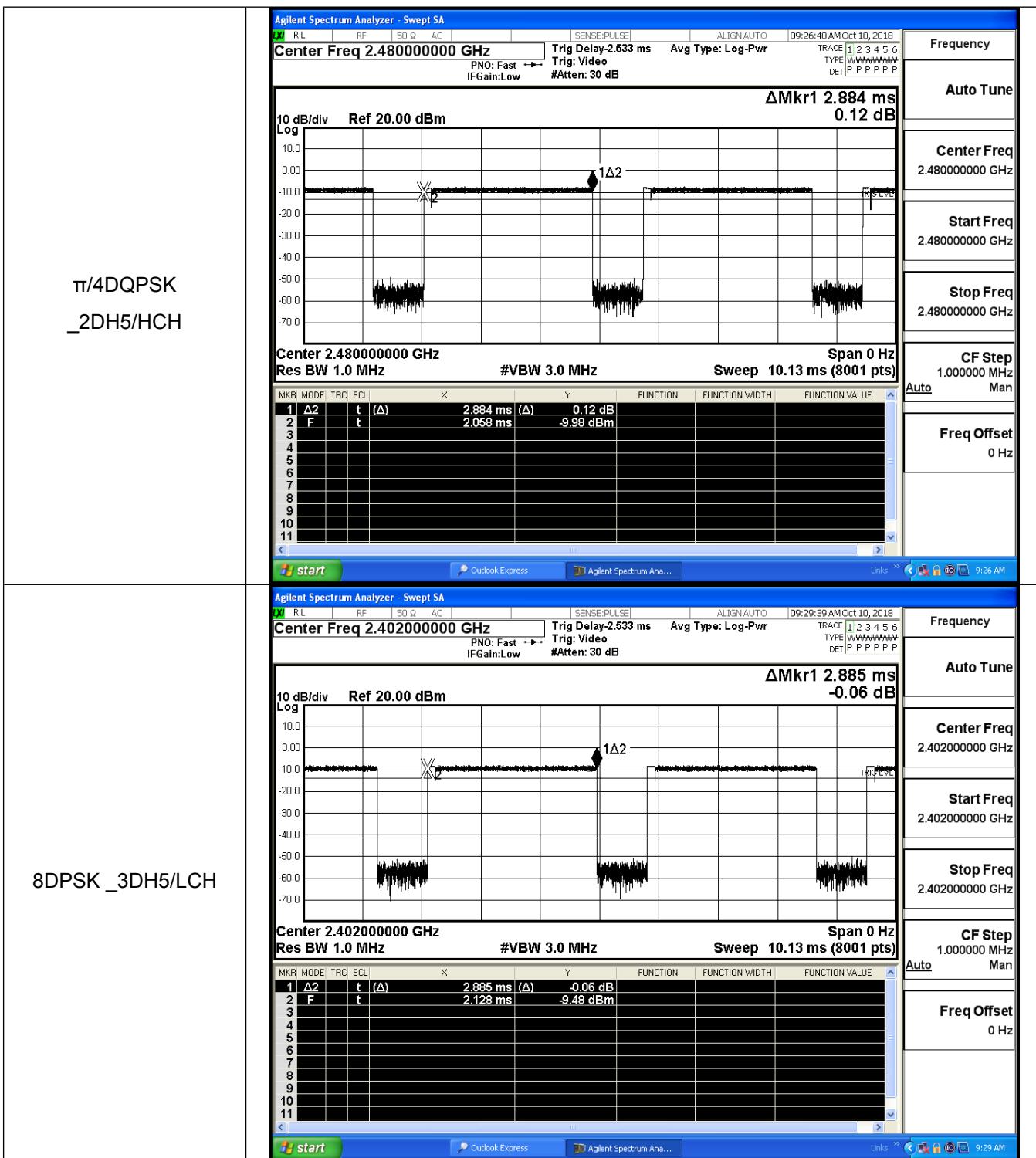
## A.5 Dwell Time

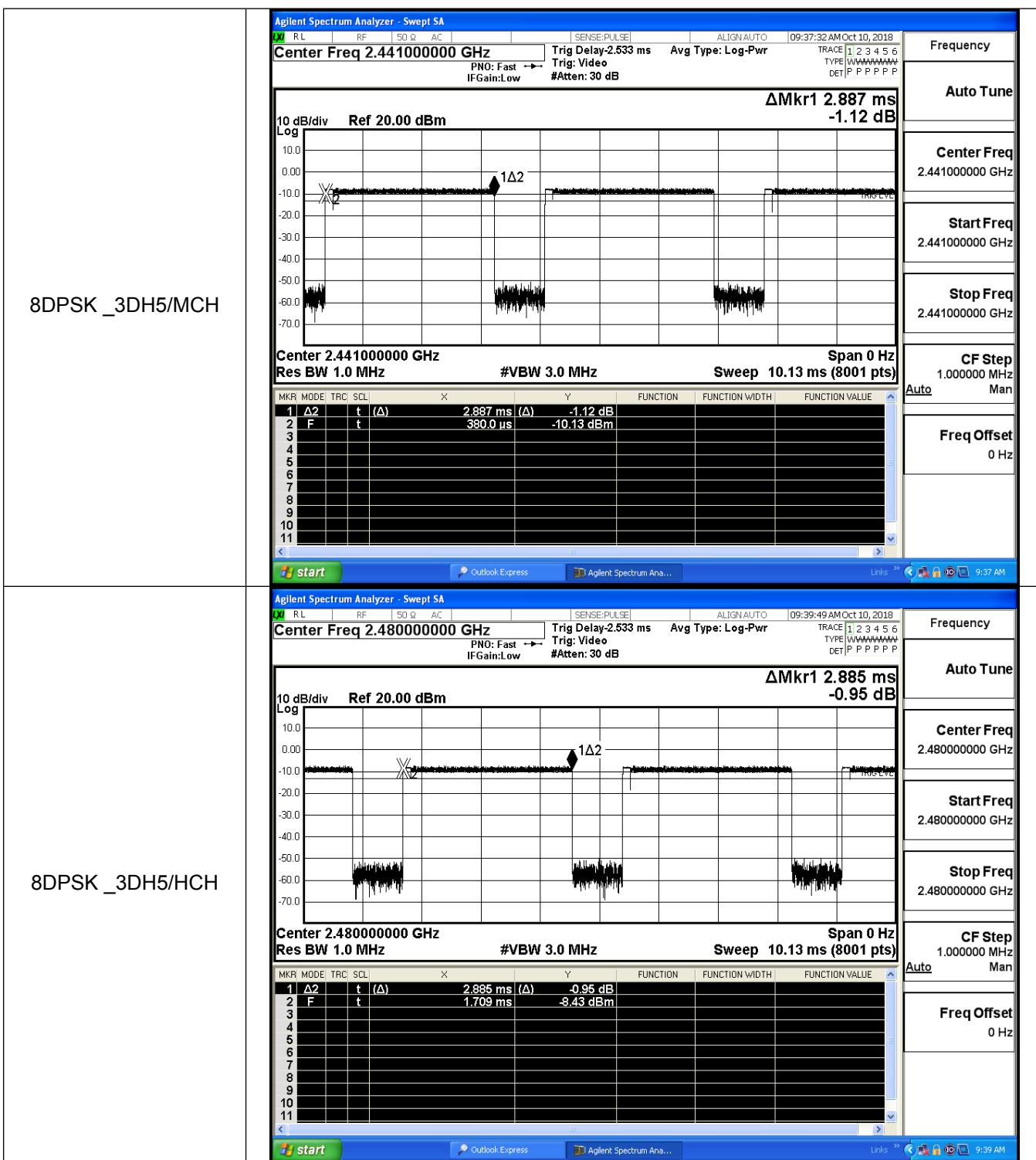
Mode	Packet	Channel	Burst Width [ms/hop/ch]	Total Hops[hop*ch]	Dwell Time[s]	Limit [s]	Verdict
GFSK	DH5	LCH	2.88	106.7	0.307	0.4	PASS
	DH5	MCH	2.88	106.7	0.307	0.4	PASS
	DH5	HCH	2.88	106.7	0.307	0.4	PASS
$\pi/4$ DQPSK	2DH5	LCH	2.88	106.7	0.307	0.4	PASS
	2DH5	MCH	2.88	106.7	0.307	0.4	PASS
	2DH5	HCH	2.88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





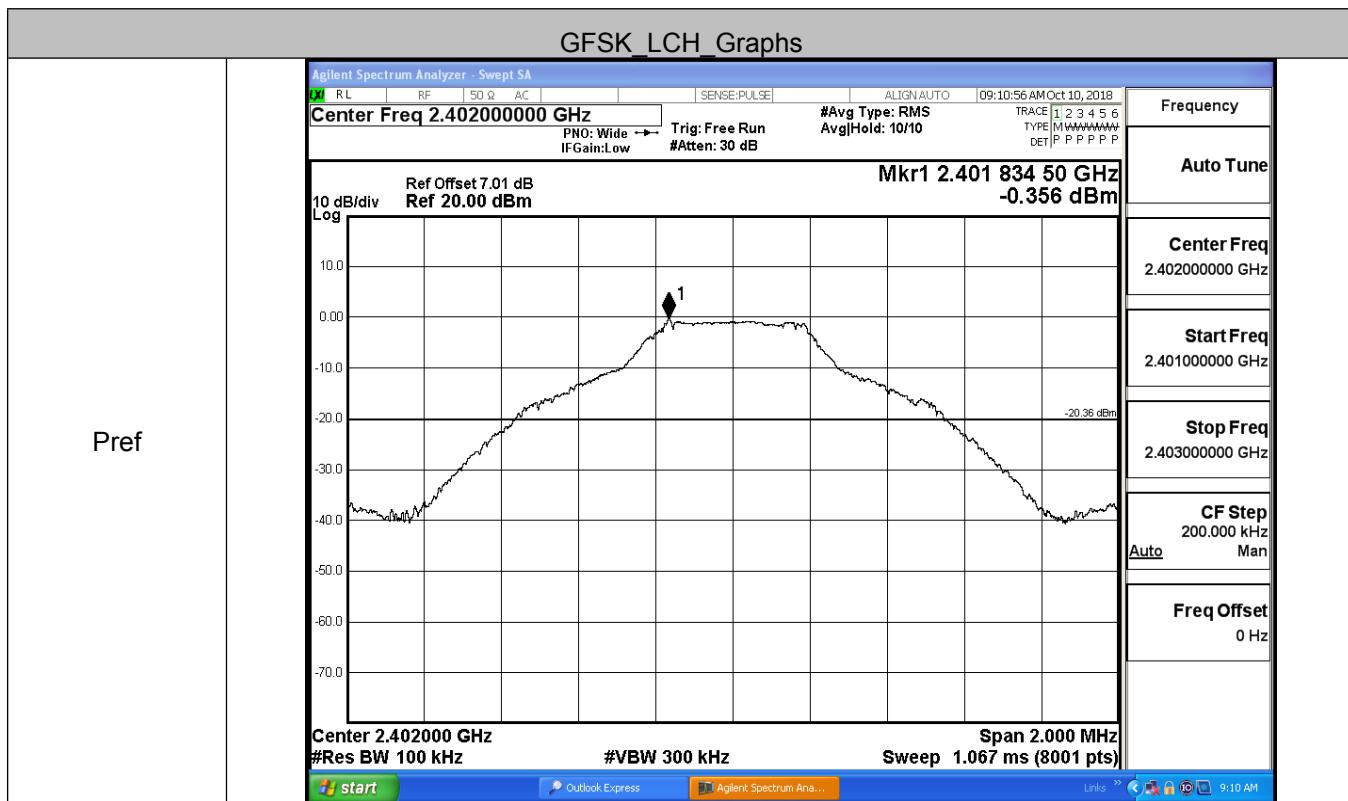


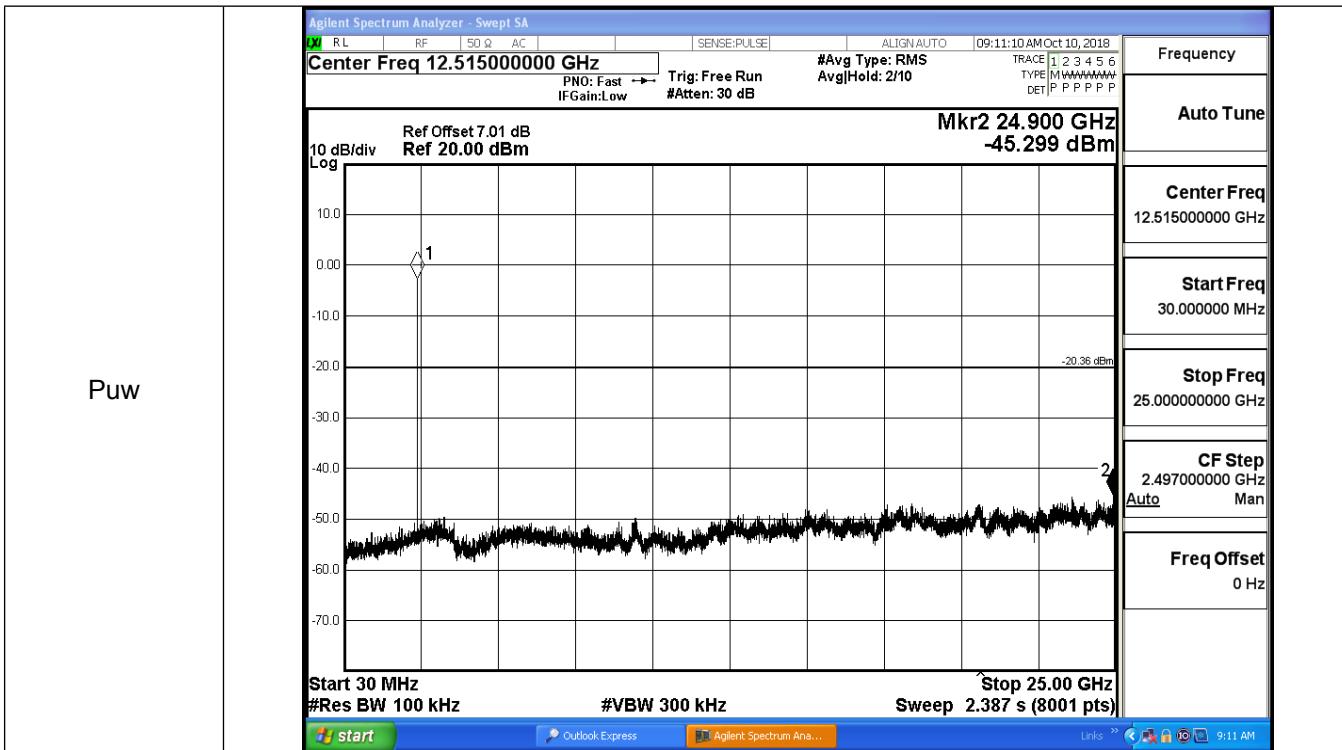


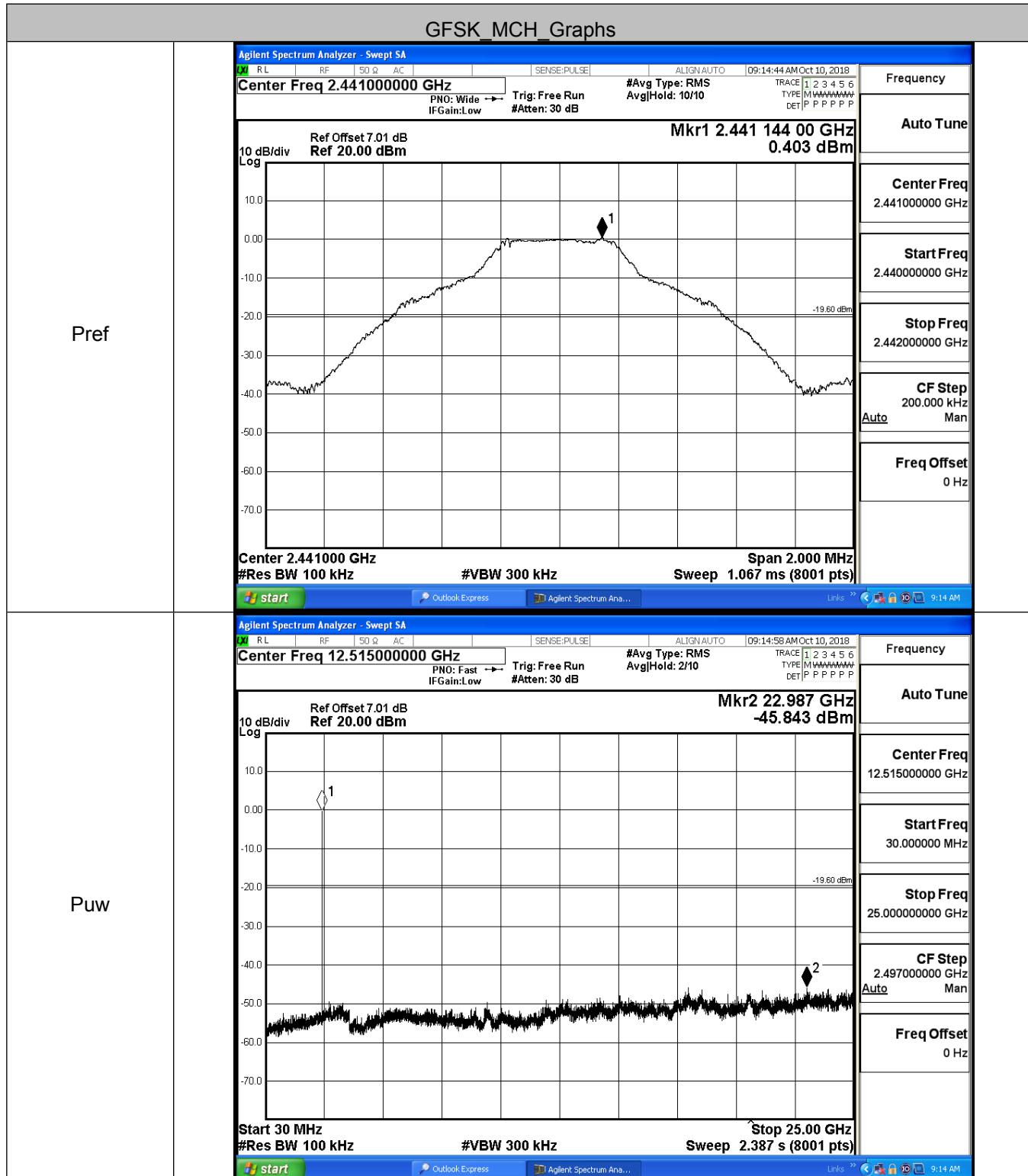


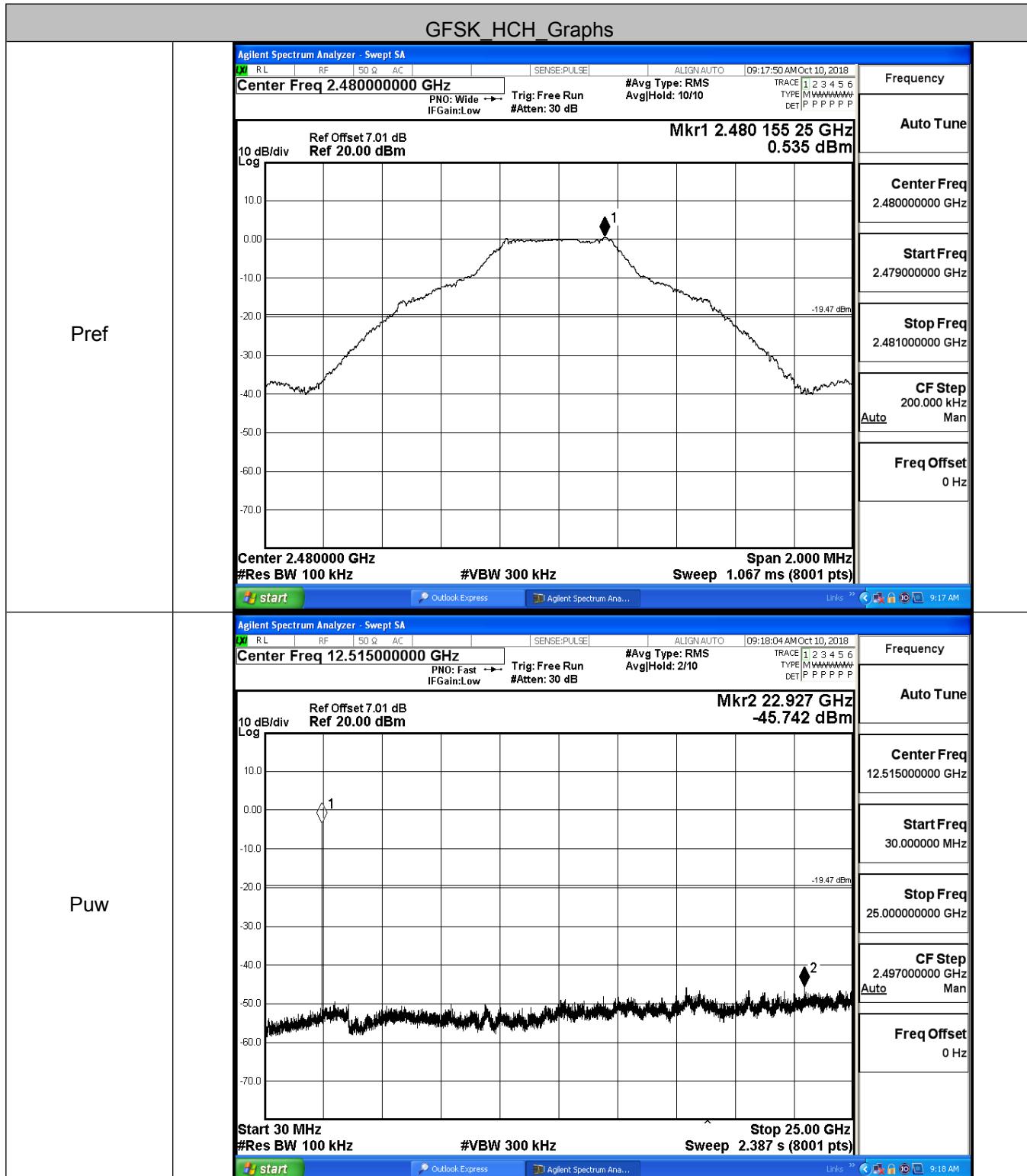
## A.6 RF Conducted Spurious Emissions

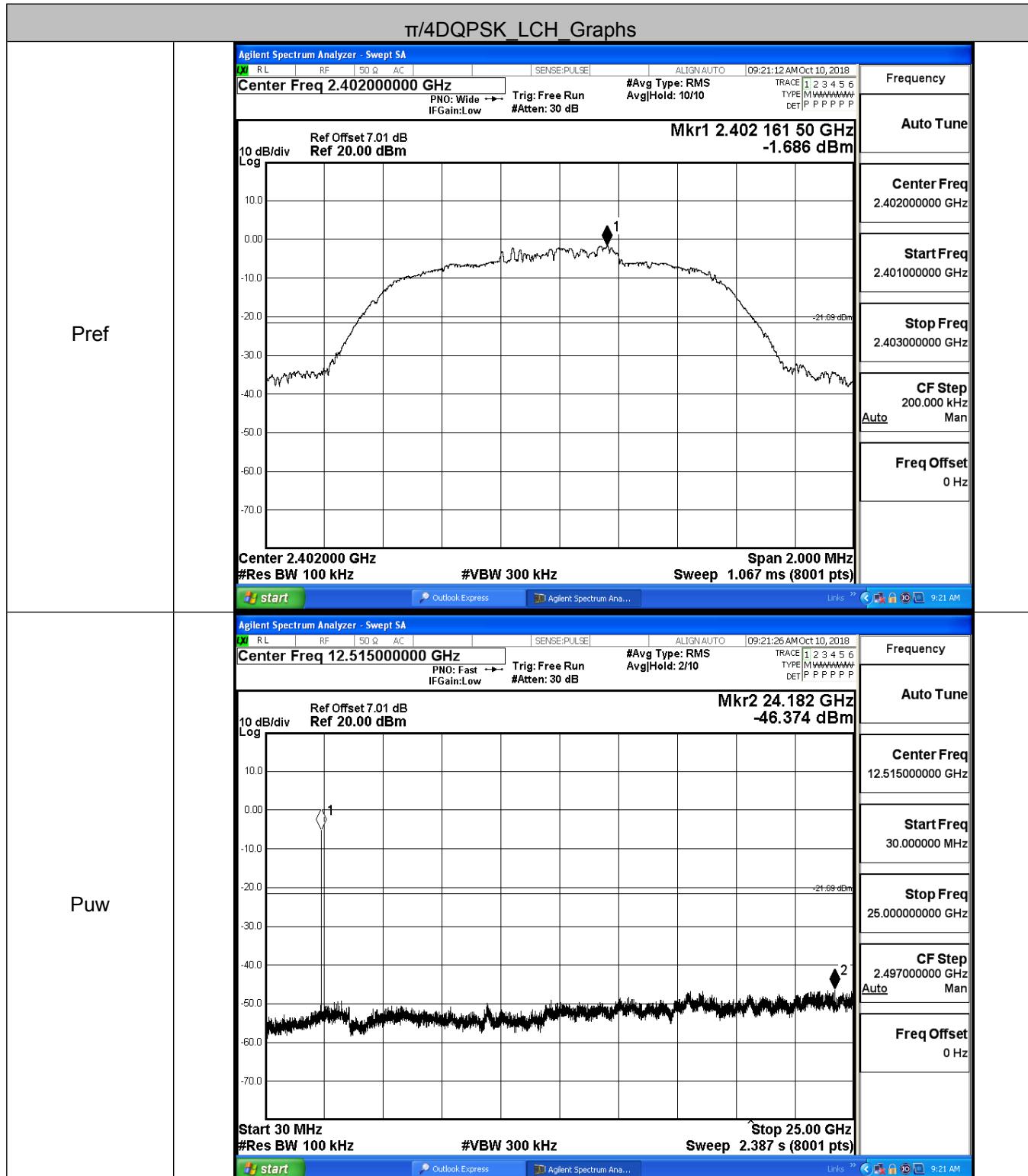
Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
GFSK	LCH	-0.356	-45.299	-20.356	PASS
	MCH	0.403	-45.843	-19.597	PASS
	HCH	0.535	-45.742	-19.465	PASS
$\pi/4$ DQPSK	LCH	-1.686	-46.374	-21.686	PASS
	MCH	-0.95	-24.865	-20.950	PASS
	HCH	-1.099	-45.307	-21.099	PASS
8DPSK	LCH	-1.937	-45.349	-21.937	PASS
	MCH	-1.003	-45.936	-21.003	PASS
	HCH	-1.043	-45.615	-21.043	PASS

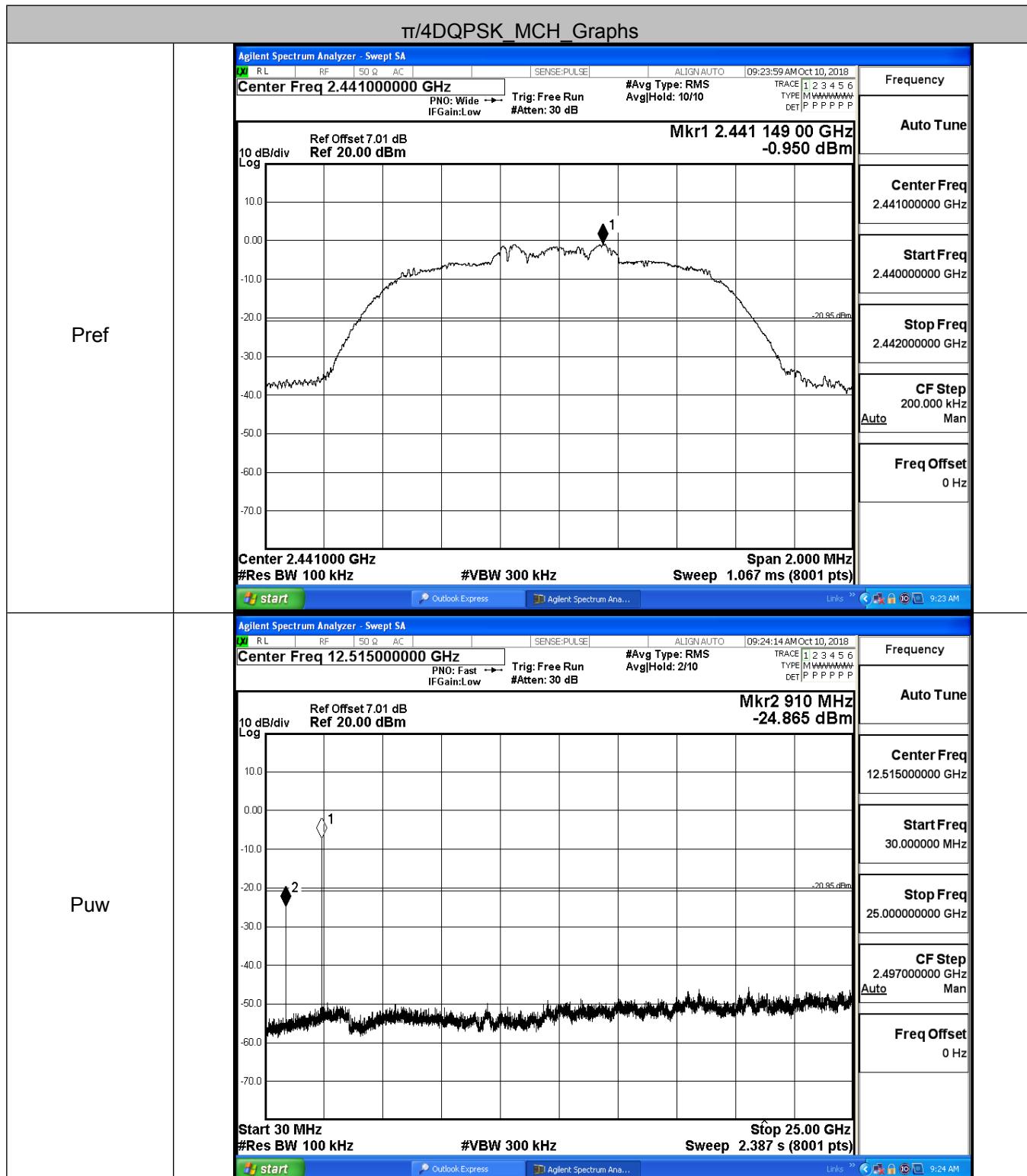


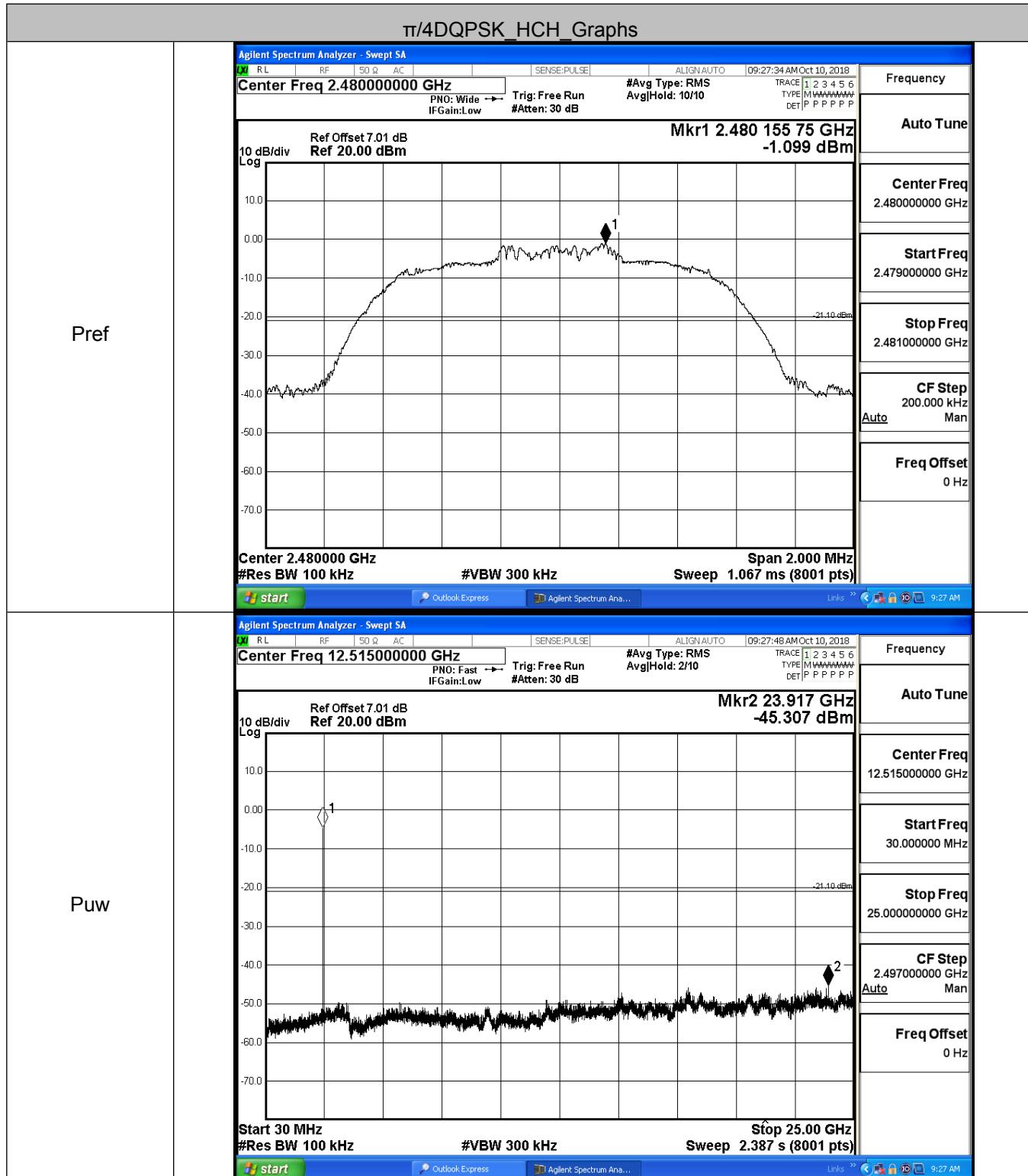


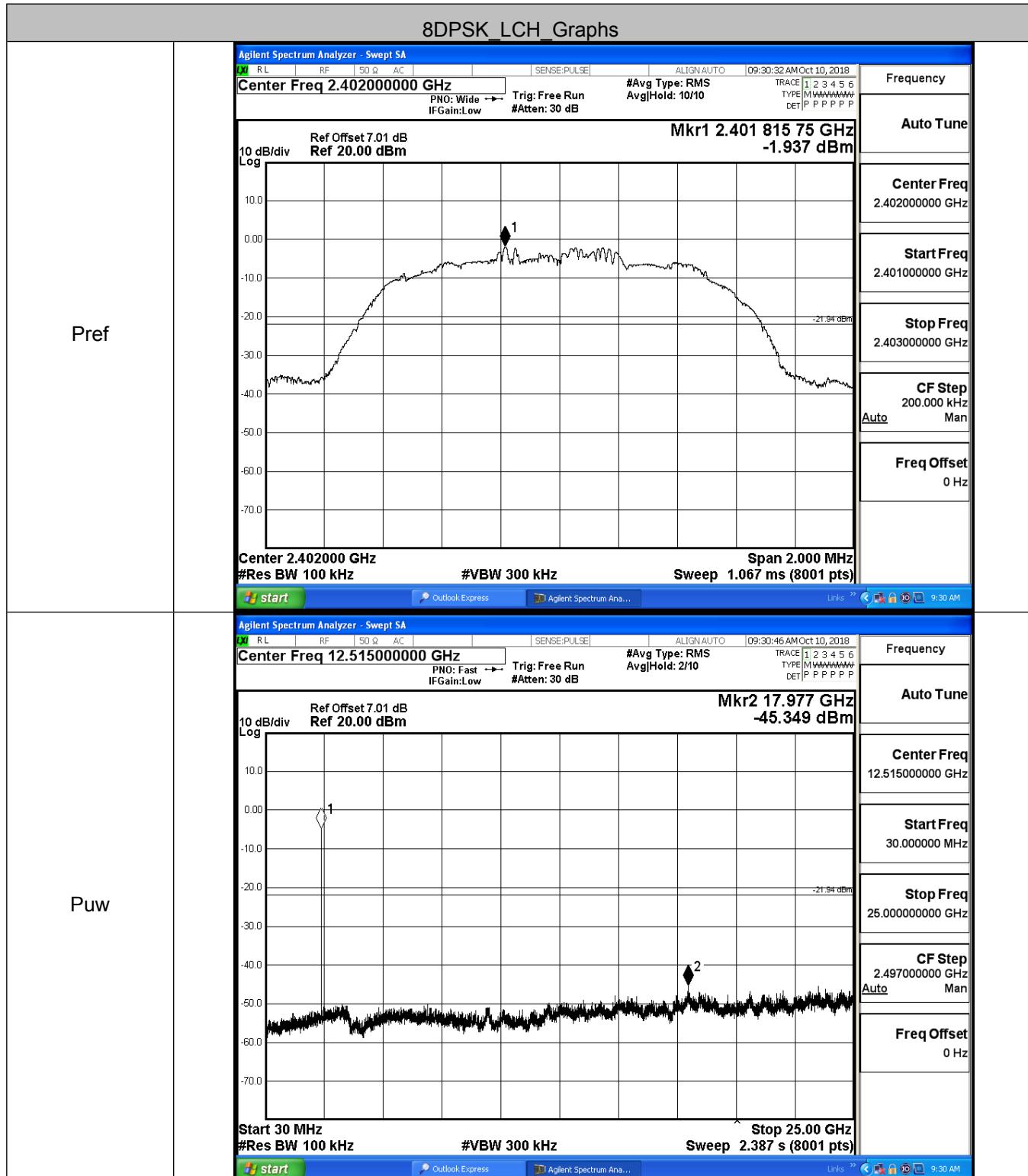


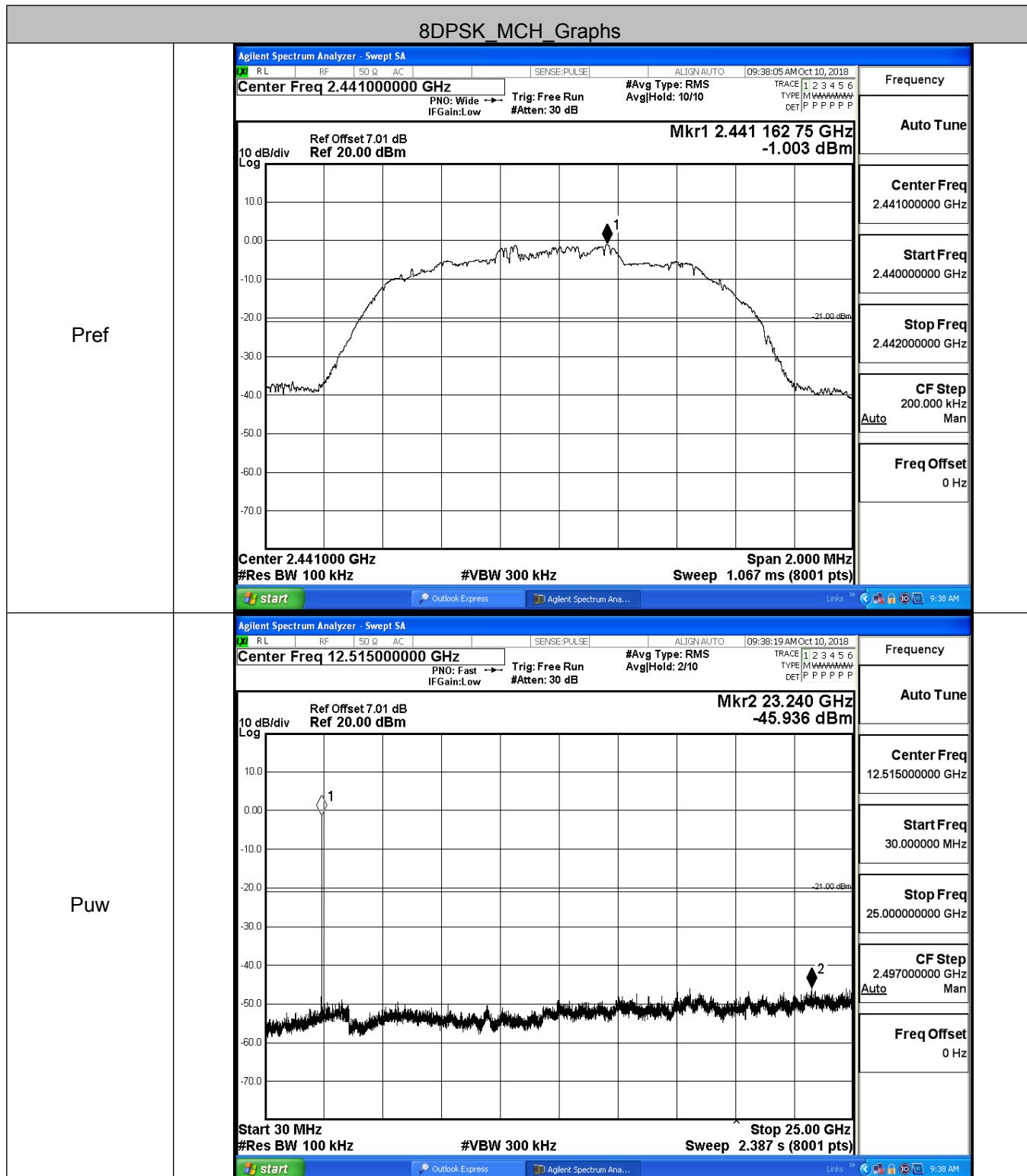


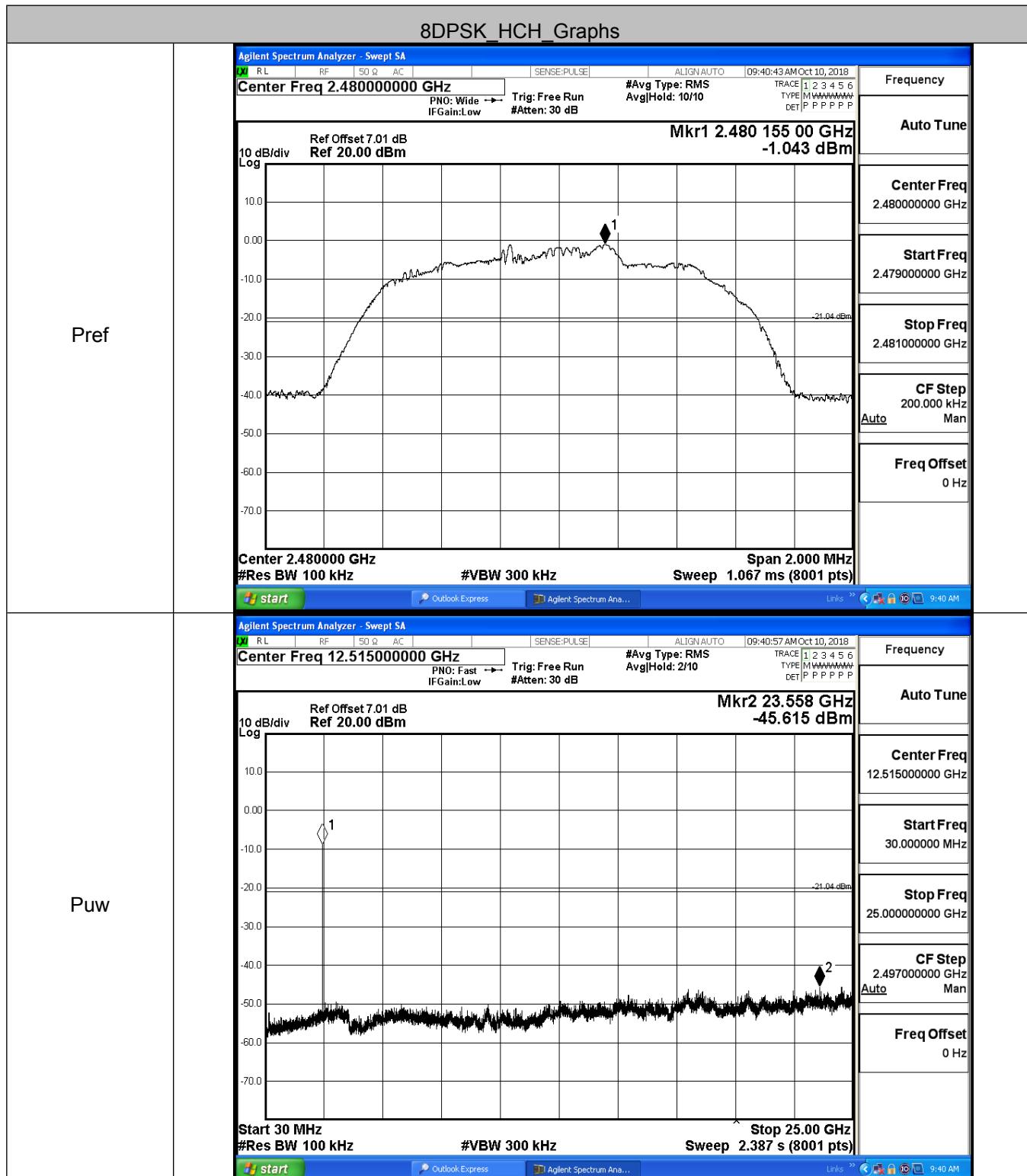










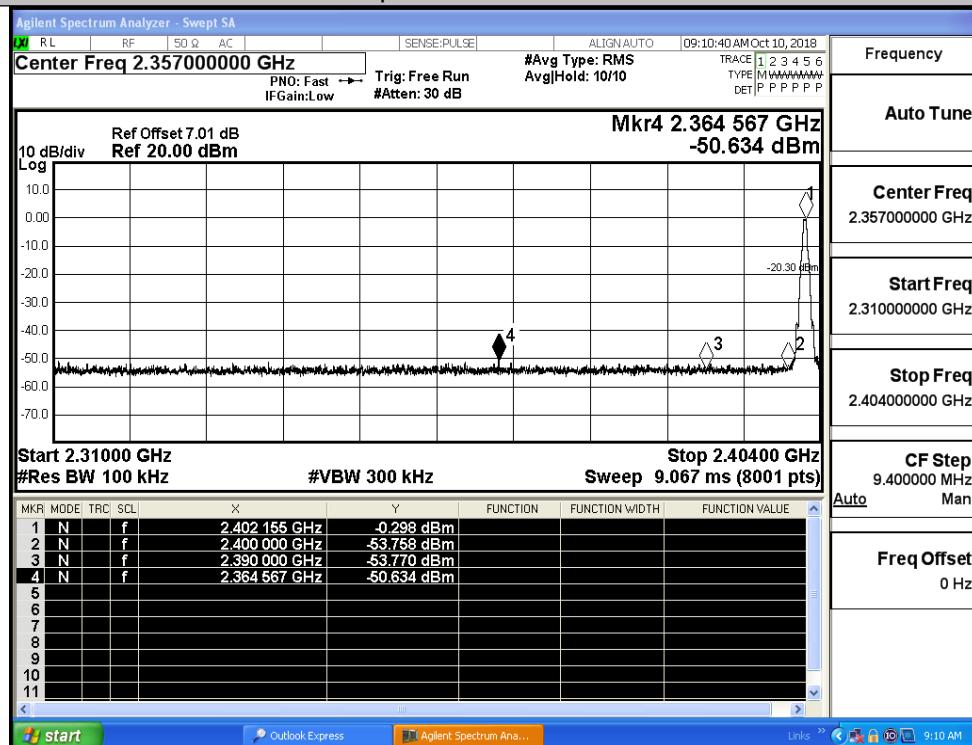


### A.7 Band-edge for RF Conducted Emissions

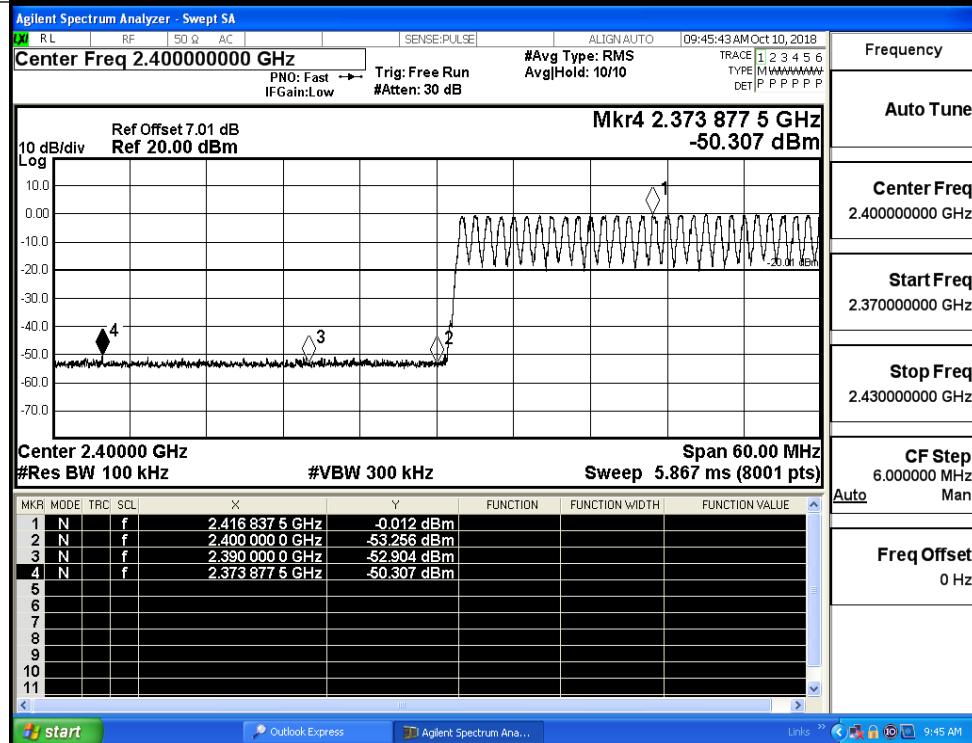
Mode	Channel	Carrier Frequency [MHz]	Carrier Power [dBm]	Frequency Hopping	Max Spurious Level [dBm]	Limit [dBm]	Verdict
GFSK	LCH	2402	-0.298	Off	-50.634	-20.3	PASS
			-0.012	On	-50.307	-20.01	PASS
	HCH	2480	0.547	Off	-50.201	-19.45	PASS
			0.346	On	-50.483	-19.65	PASS
$\pi/4$ DQPSK	LCH	2402	-1.537	Off	-51.141	-21.54	PASS
			-1.070	On	-49.496	-21.07	PASS
	HCH	2480	-2.038	Off	-51.175	-22.04	PASS
			-0.937	On	-50.243	-20.94	PASS
8DPSK	LCH	2402	-1.514	Off	-50.642	-21.51	PASS
			-1.236	On	-50.824	-21.24	PASS
	HCH	2480	-1.090	Off	-50.524	-21.09	PASS
			-0.964	On	-50.181	-20.96	PASS

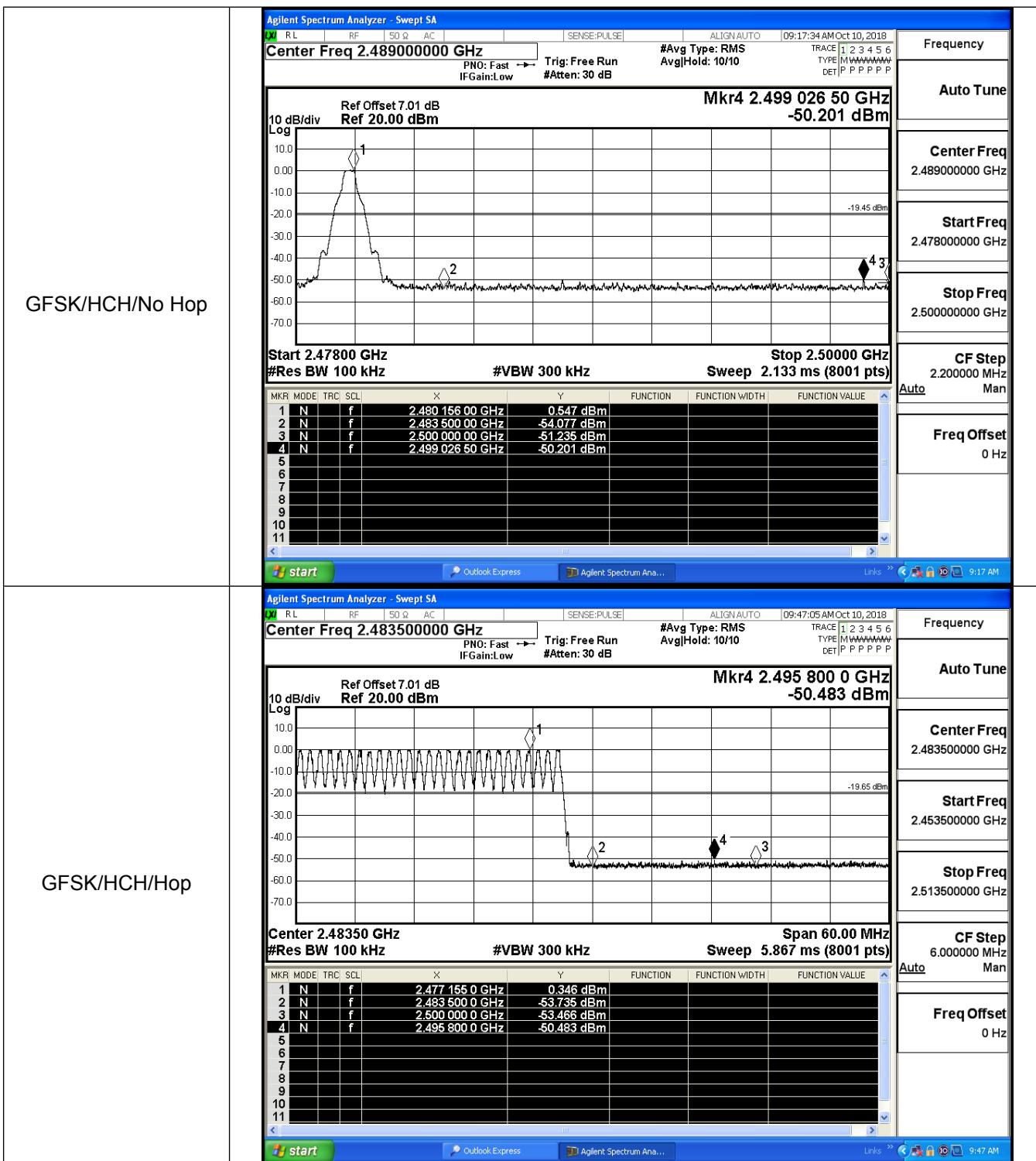
## Test Graphs

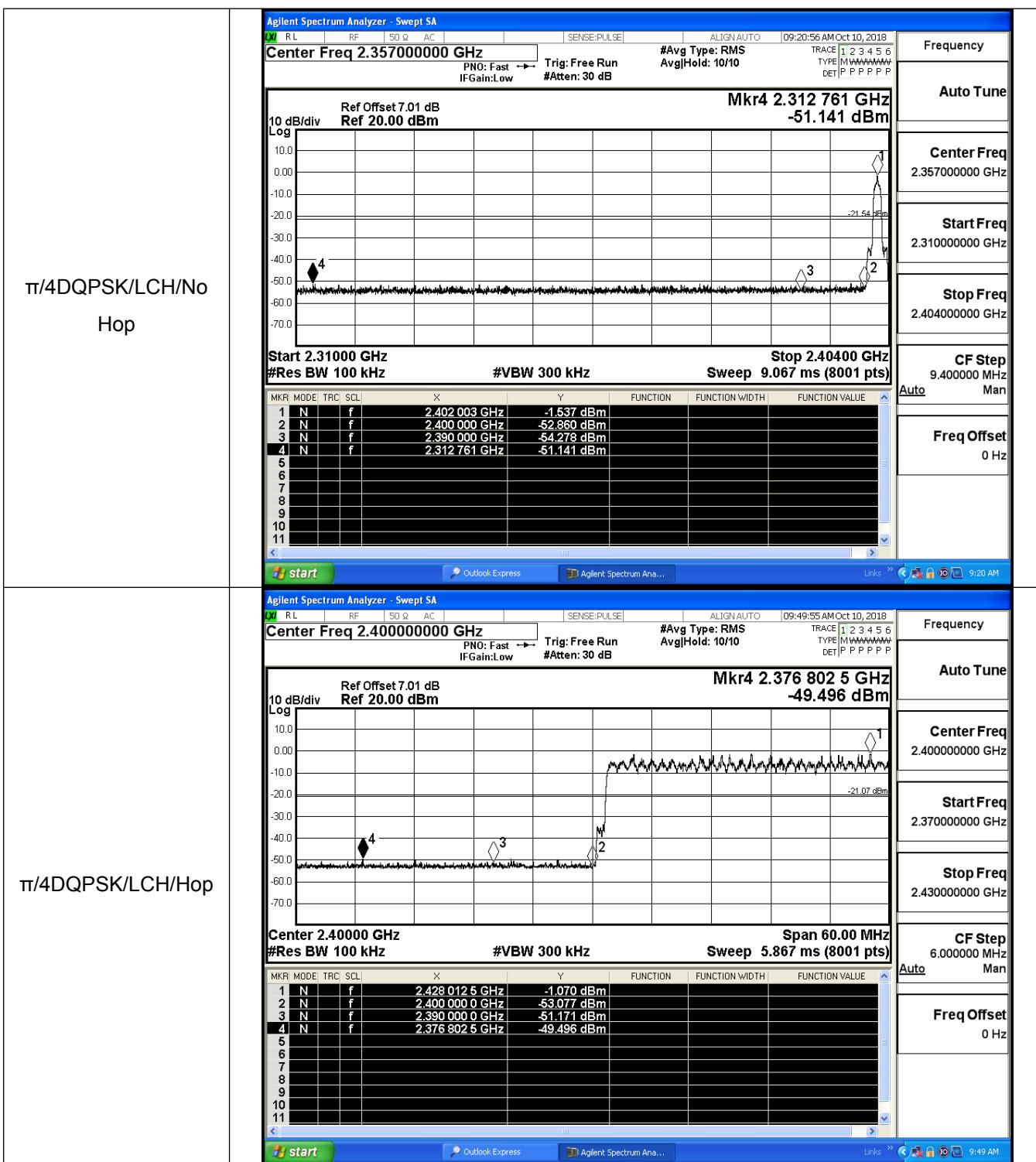
GFSK/LCH/No Hop

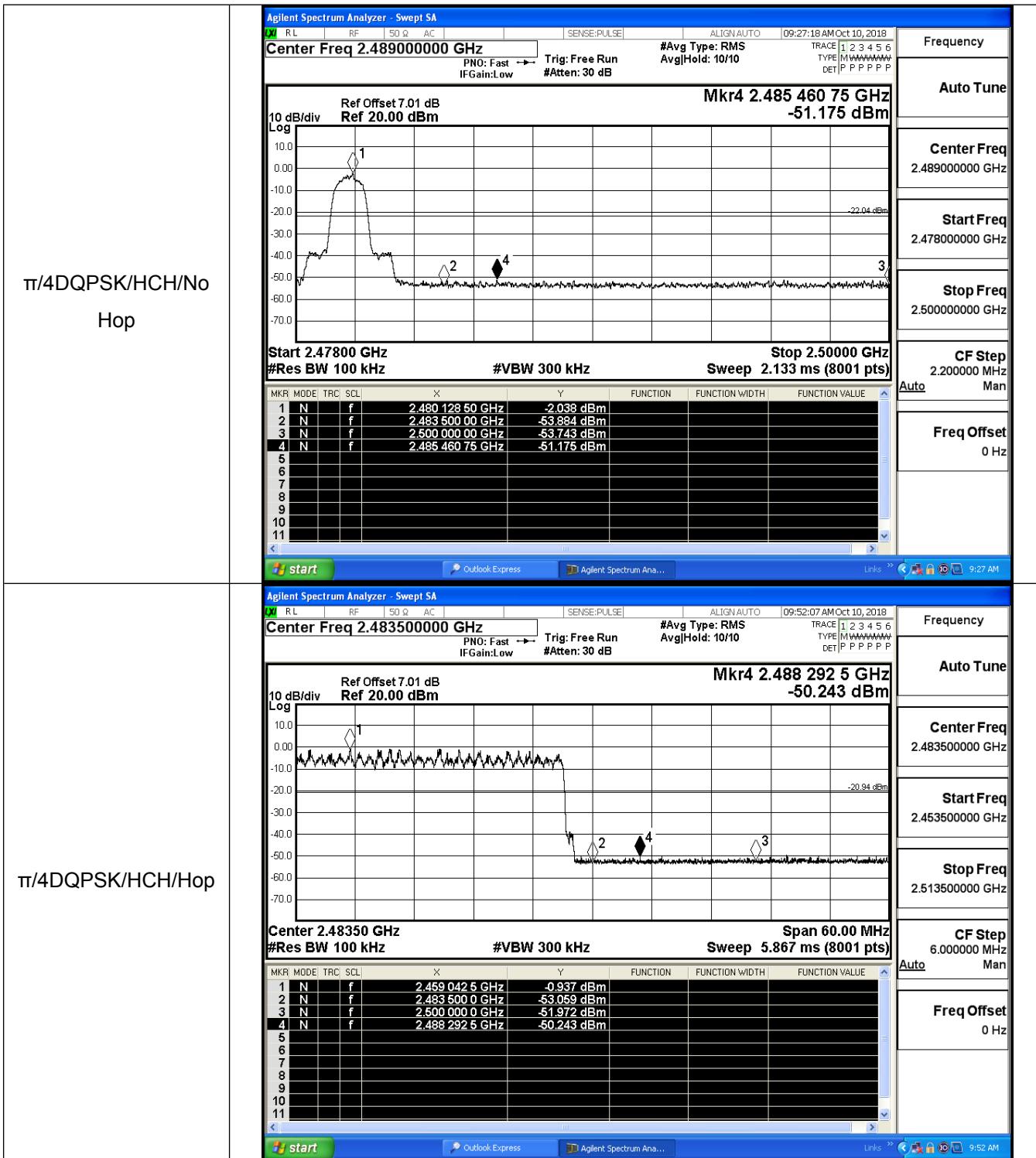


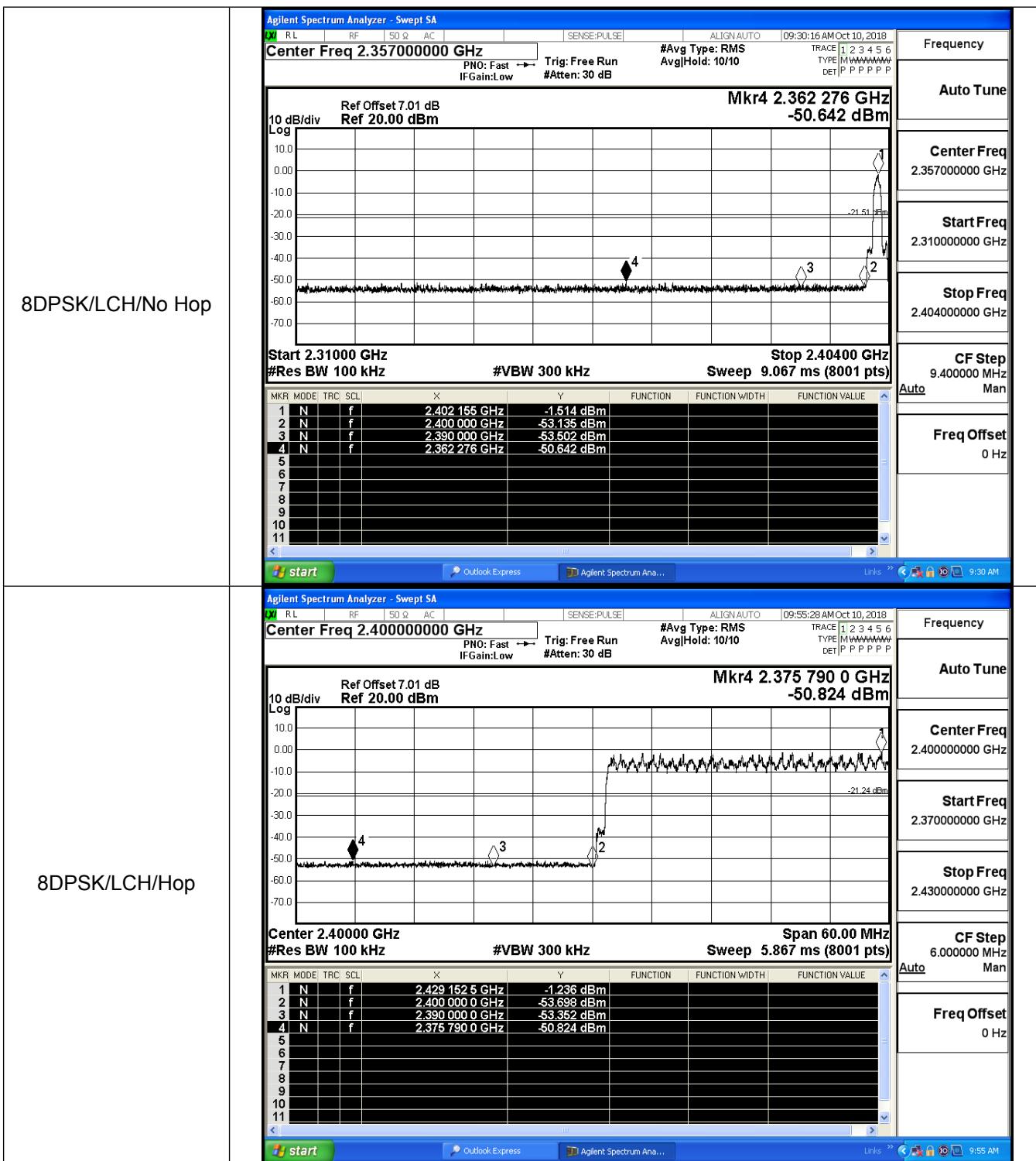
GFSK/LCH/Hop

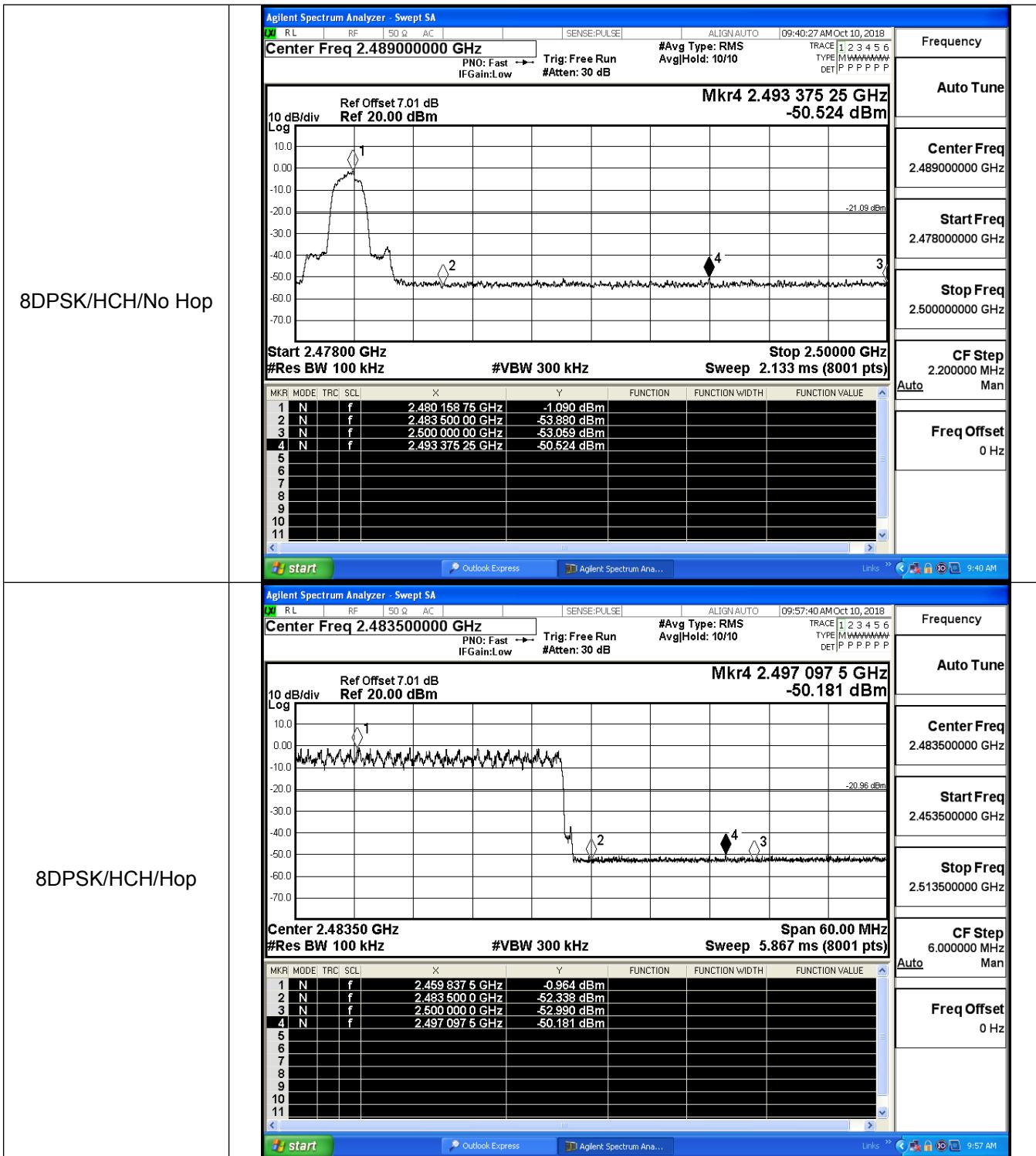








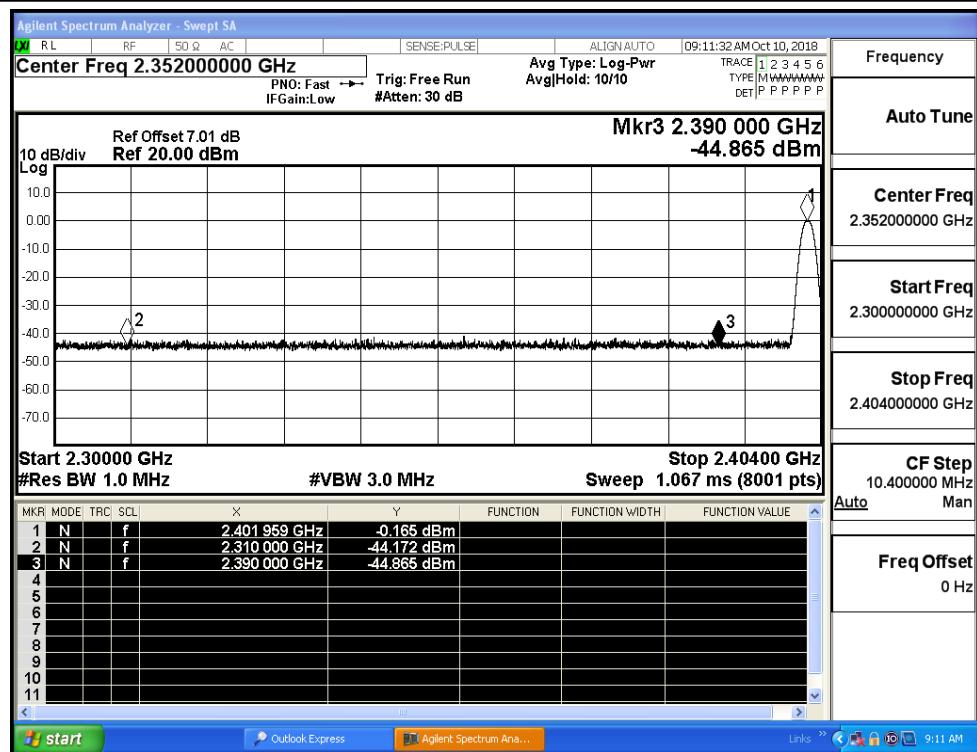




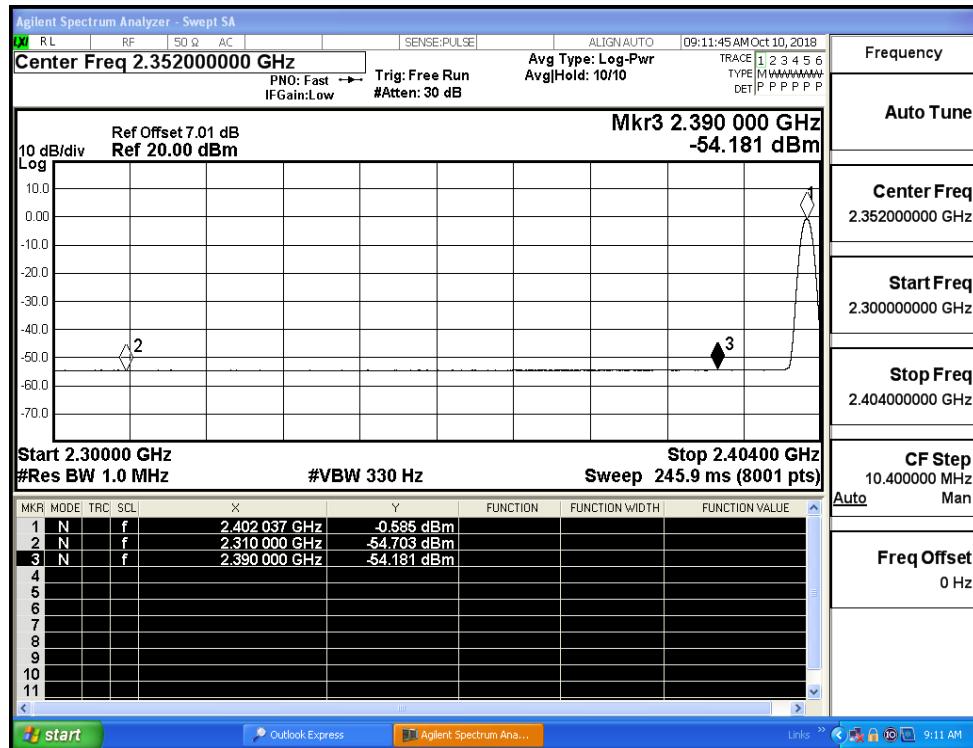
## A.8 Restrict-band band-edge measurements

Test Mode	Hopping	Freq.	Power [dBm]	Gain	Ground Factor	E [dBuV/m]	Detector	Limit [dBuV/m]	Verdict
GFSK	Off	2310.0	-44.17	2.0	0	51.09	PEAK	74	PASS
	Off	2310.0	-54.70	2.0	0	40.55	AV	54	PASS
	Off	2390.0	-44.87	2.0	0	50.39	PEAK	74	PASS
	Off	2390.0	-54.18	2.0	0	41.08	AV	54	PASS
	Off	2483.5	-43.09	2.0	0	52.17	PEAK	74	PASS
	Off	2483.5	-53.97	2.0	0	41.28	AV	54	PASS
	Off	2500.0	-42.49	2.0	0	52.77	PEAK	74	PASS
	Off	2500.0	-53.88	2.0	0	41.37	AV	54	PASS
$\pi/4$ DQPSK	Off	2310.0	-44.07	2.0	0	51.19	PEAK	74	PASS
	Off	2310.0	-54.77	2.0	0	40.48	AV	54	PASS
	Off	2390.0	-44.12	2.0	0	51.13	PEAK	74	PASS
	Off	2390.0	-54.35	2.0	0	40.91	AV	54	PASS
	Off	2483.5	-44.58	2.0	0	50.68	PEAK	74	PASS
	Off	2483.5	-54.01	2.0	0	41.25	AV	54	PASS
	Off	2500.0	-43.56	2.0	0	51.70	PEAK	74	PASS
	Off	2500.0	-53.93	2.0	0	41.33	AV	54	PASS
8DPSK	Off	2310.0	-44.16	2.0	0	51.10	PEAK	74	PASS
	Off	2310.0	-54.70	2.0	0	40.56	AV	54	PASS
	Off	2390.0	-44.41	2.0	0	50.84	PEAK	74	PASS
	Off	2390.0	-54.28	2.0	0	40.98	AV	54	PASS
	Off	2483.5	-44.13	2.0	0	51.13	PEAK	74	PASS
	Off	2483.5	-54.09	2.0	0	41.17	AV	54	PASS
	Off	2500.0	-43.64	2.0	0	51.62	PEAK	74	PASS
	Off	2500.0	-53.98	2.0	0	41.28	AV	54	PASS

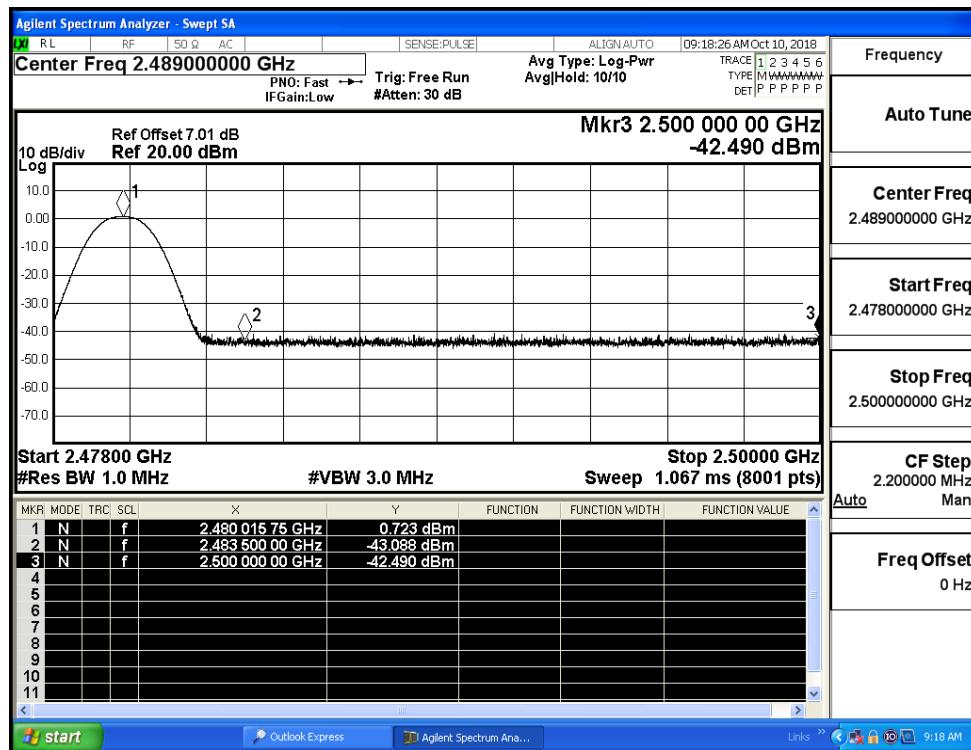
## Restrict-band band-edge measurements\_Hopping Off\_GFSK\_PEAK (Low Channel)



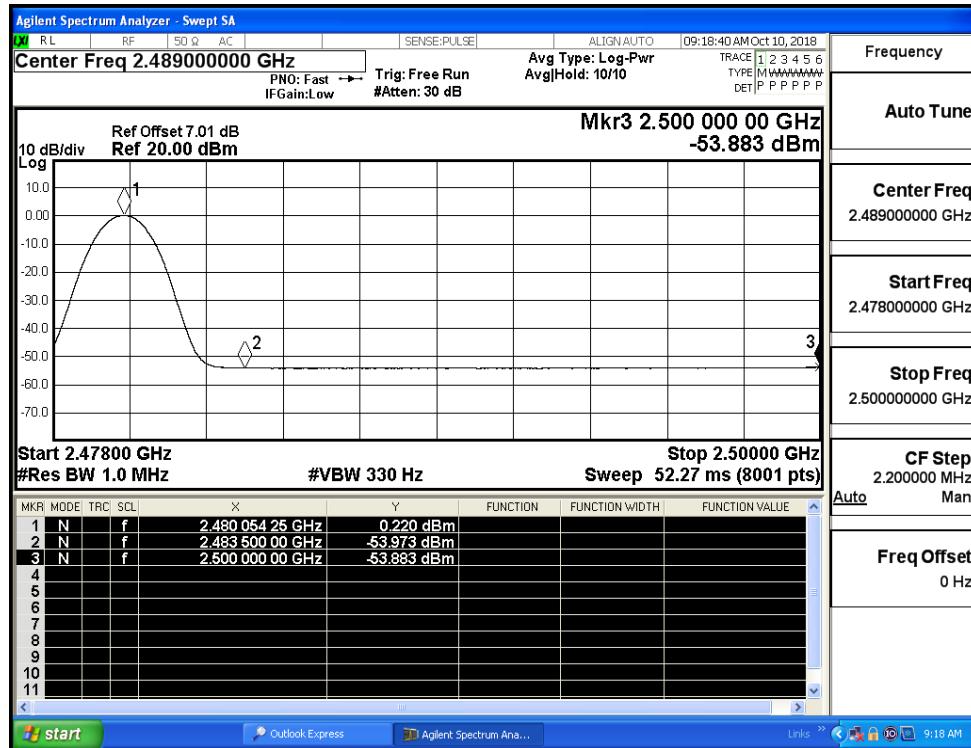
## Restrict-band band-edge measurements\_Hopping Off\_GFSK\_Average (Low Channel)



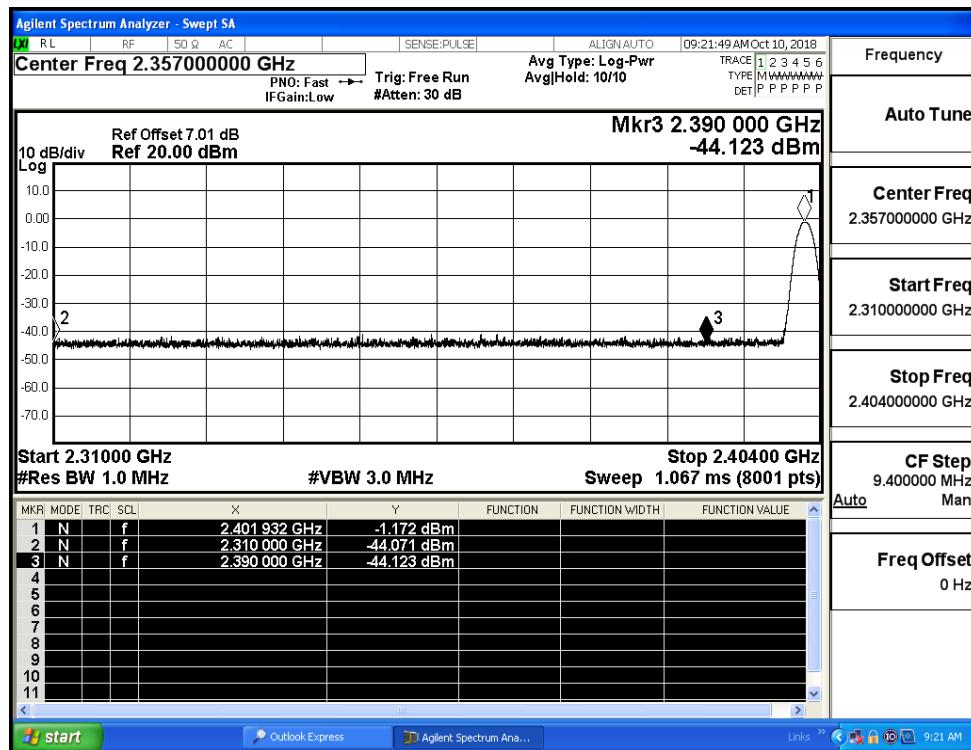
## Restrict-band band-edge measurements\_Hopping Off\_ GFSK\_PEAK (High Channel)



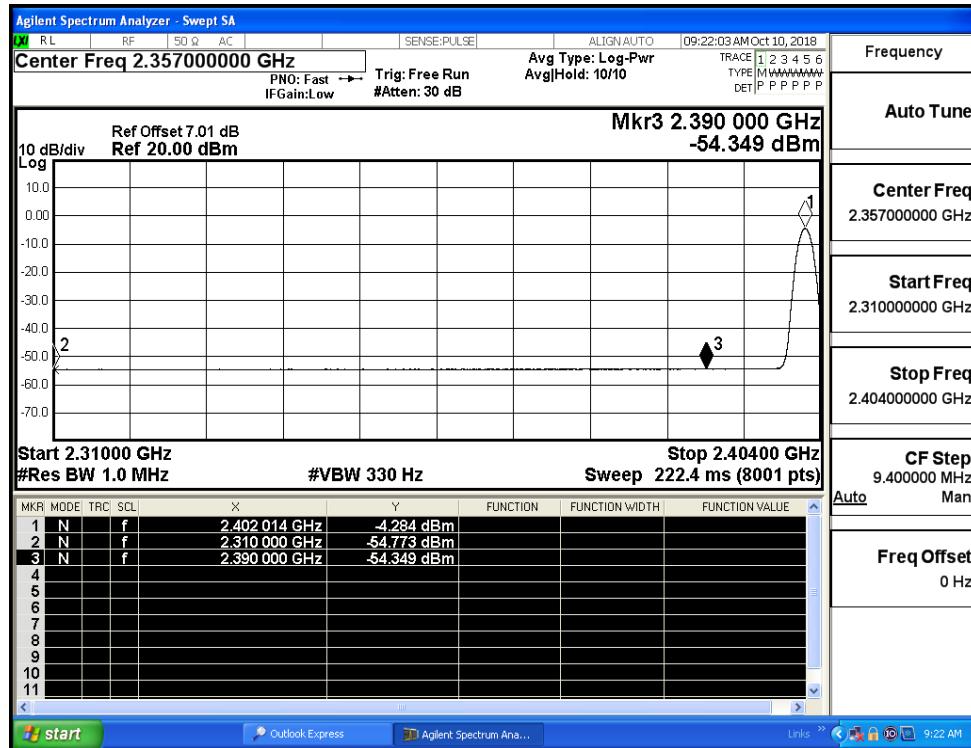
## Restrict-band band-edge measurements\_Hopping Off\_ GFSK\_Average (High Channel)



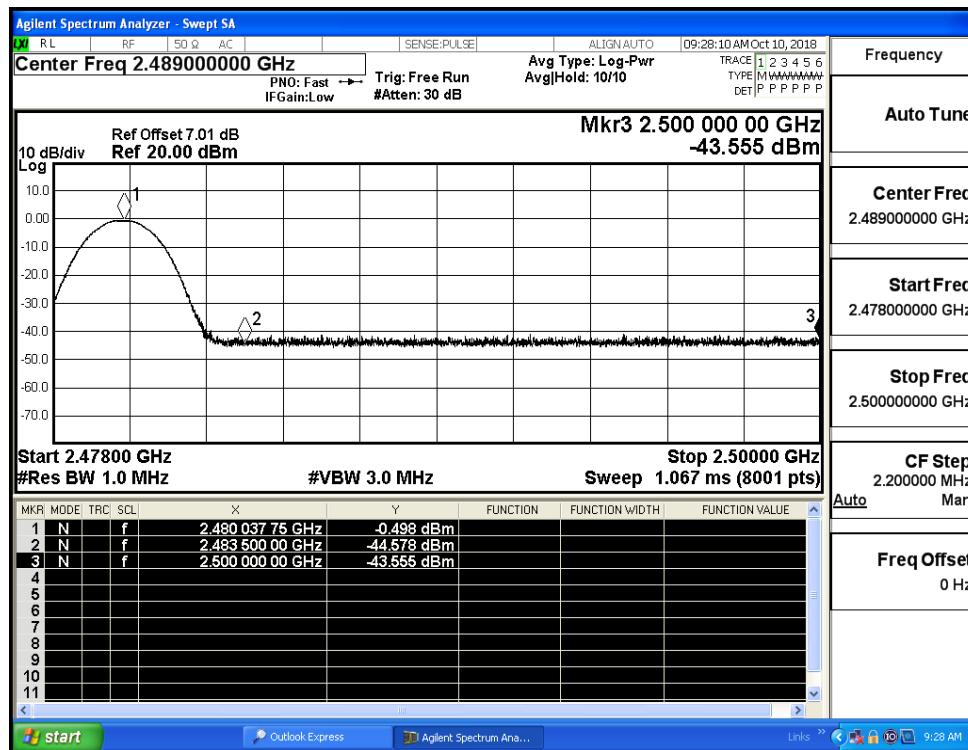
## Restrict-band band-edge measurements\_Hopping Off\_π/4-DQPSK\_PEAK (Low Channel)



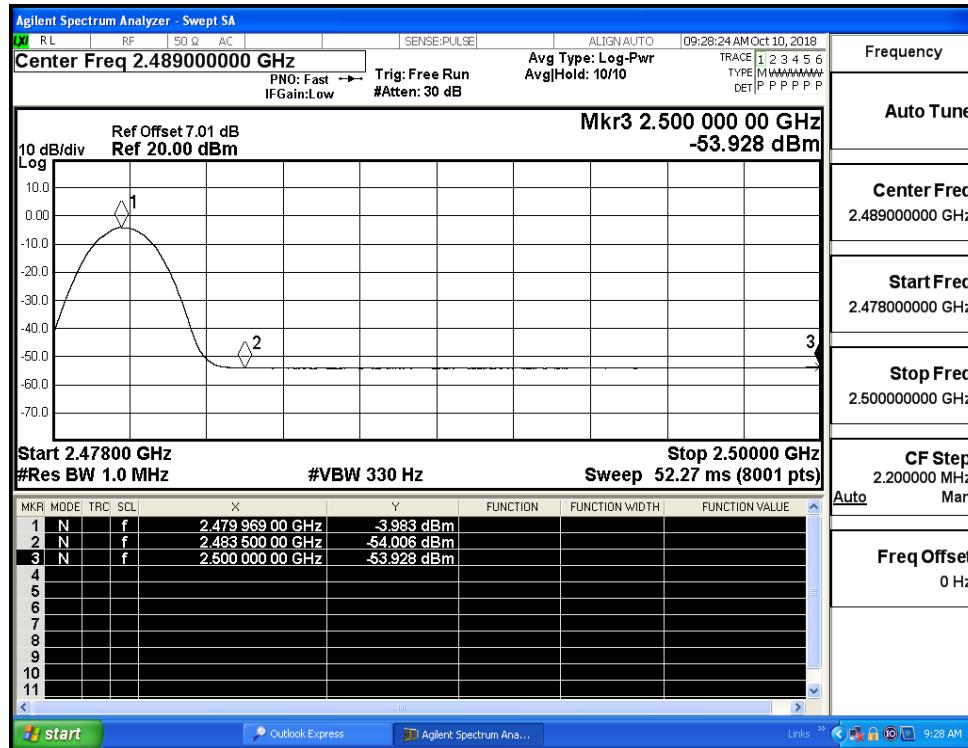
## Restrict-band band-edge measurements\_Hopping Off\_π/4-DQPSK\_Average (Low Channel)



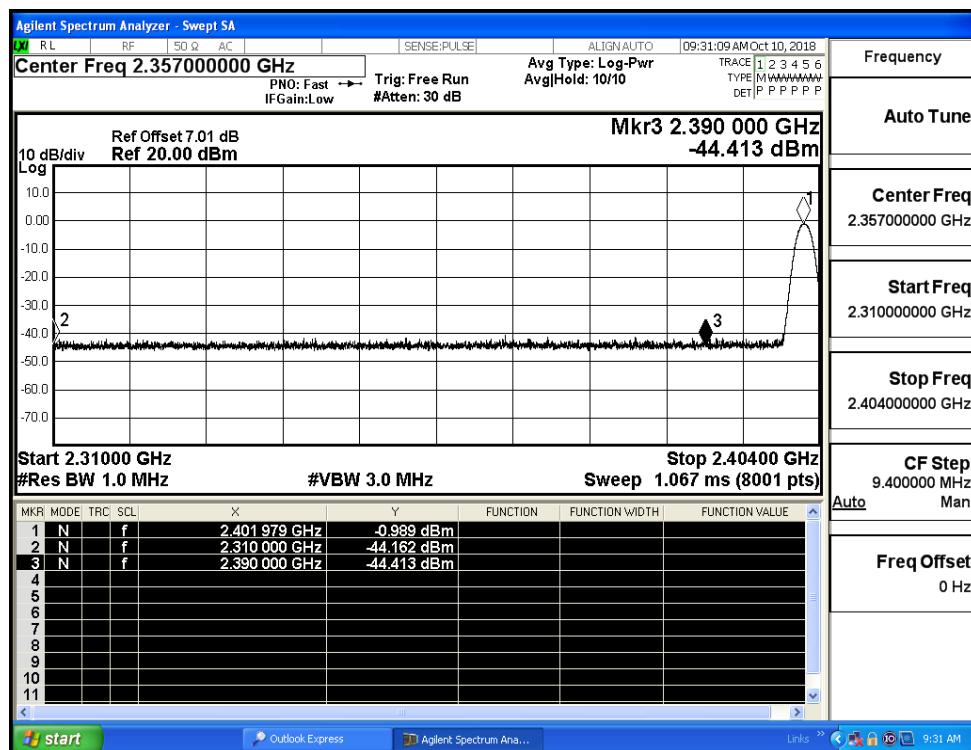
## Restrict-band band-edge measurements\_Hopping Off\_π/4-DQPSK\_PEAK (High Channel)



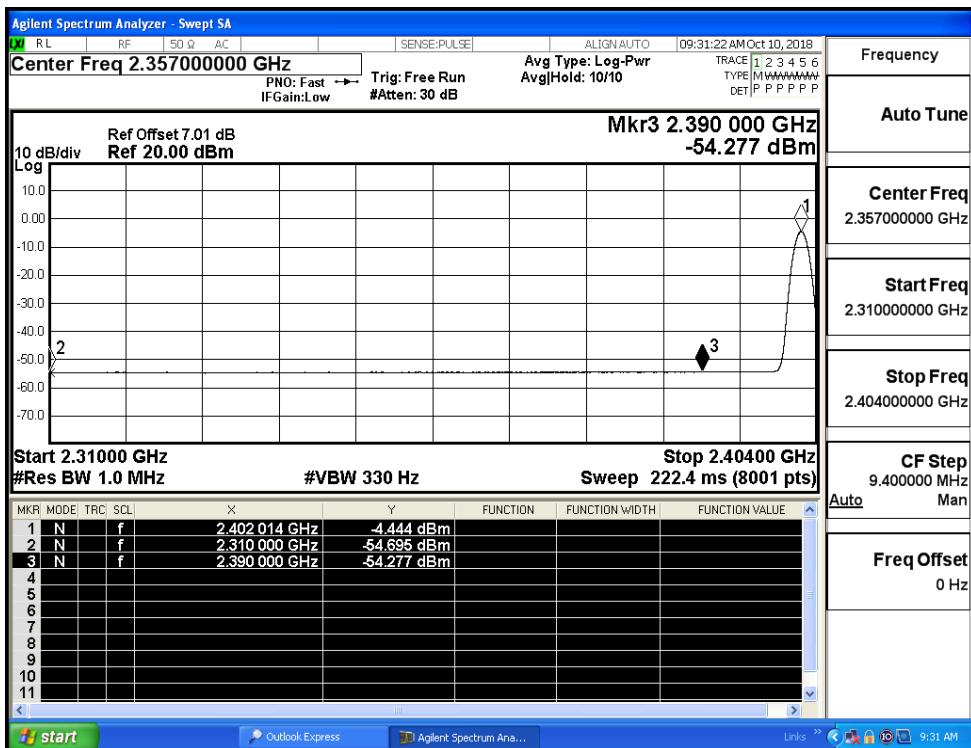
## Restrict-band band-edge measurements\_Hopping Off\_π/4-DQPSK\_Average (High Channel)



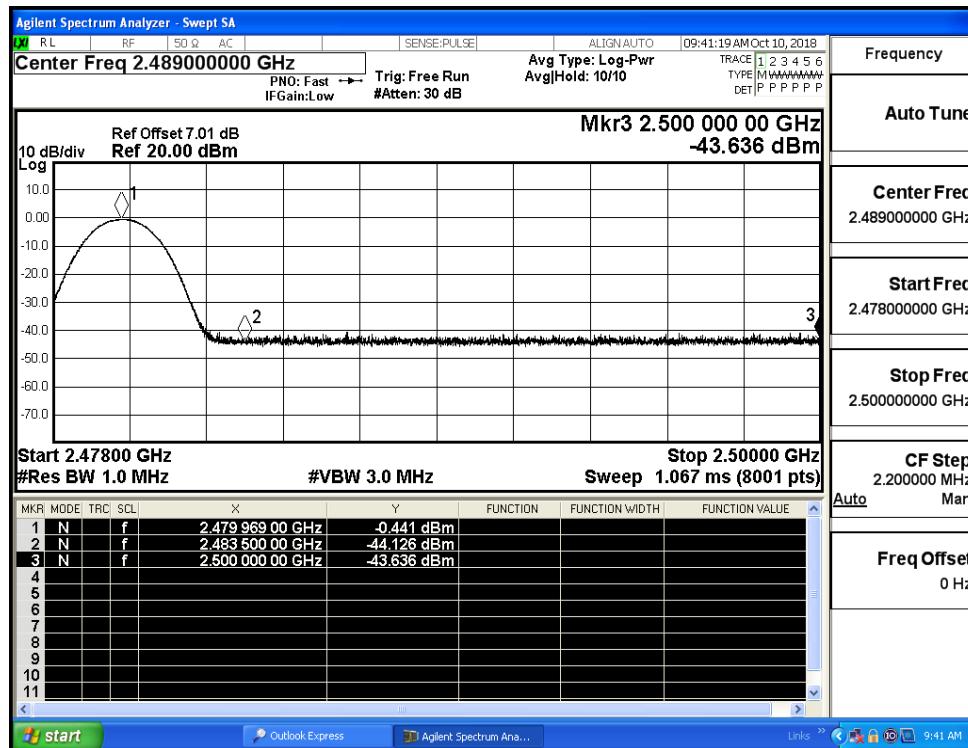
## Restrict-band band-edge measurements\_Hopping Off\_8DPSK\_PEAK (Low Channel)



## 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)

