# Appendix A

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

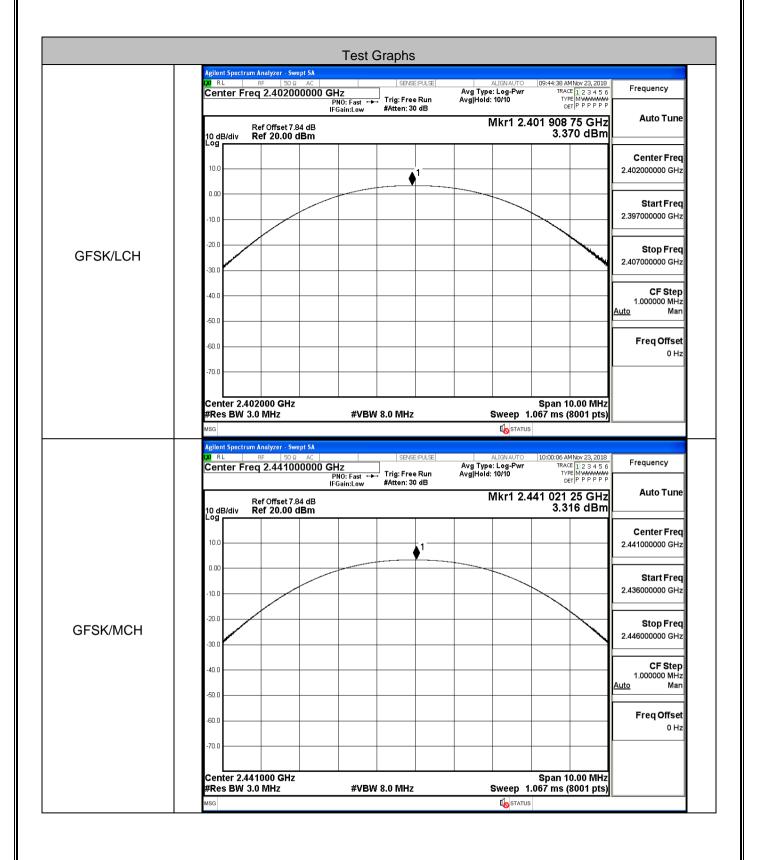
**Product Name: 2G mobile phone Trade Mark: GOL Test Model: S1 Barcelona** 

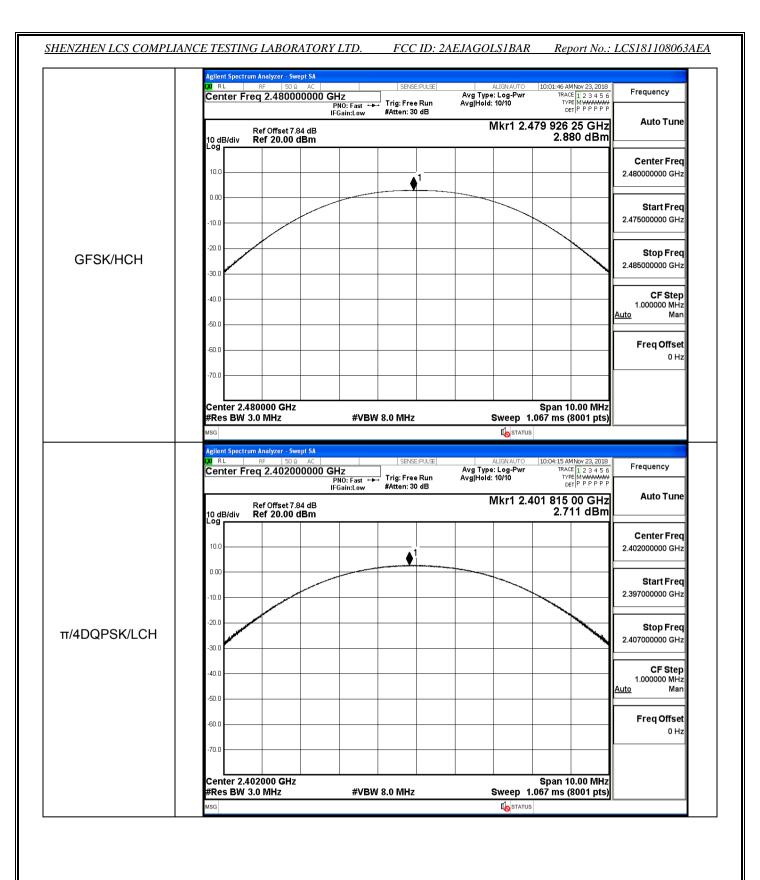
#### **Environmental Conditions**

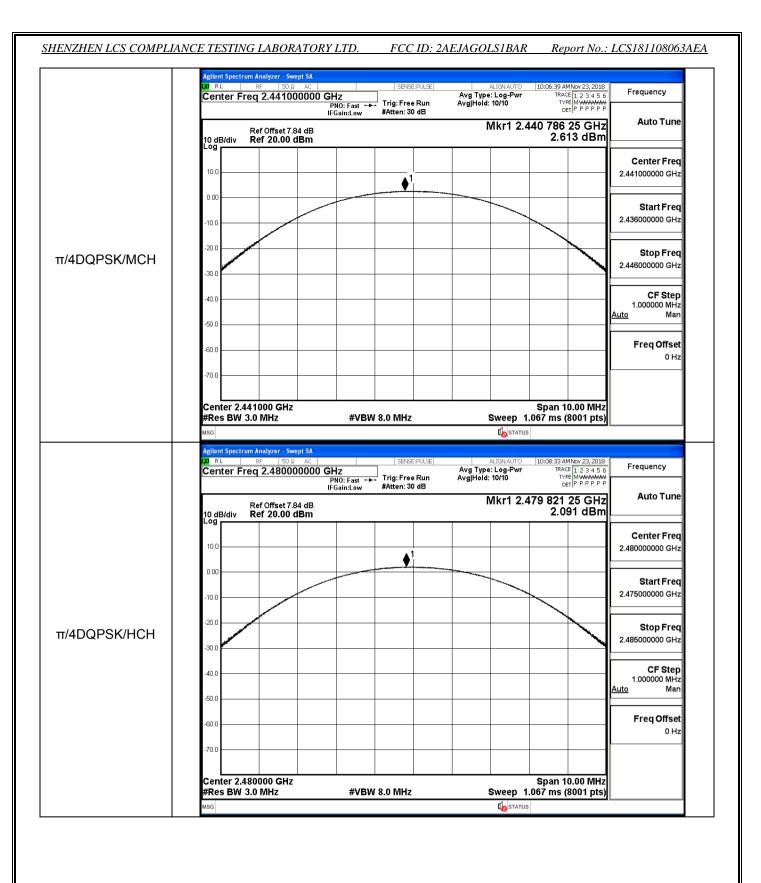
Temperature:	23.4 ° C
Relative Humidity:	53.2%
ATM Pressure:	100.0 kPa
Test Engineer:	Tom Liu
Supervised by:	Jayden Zhuo

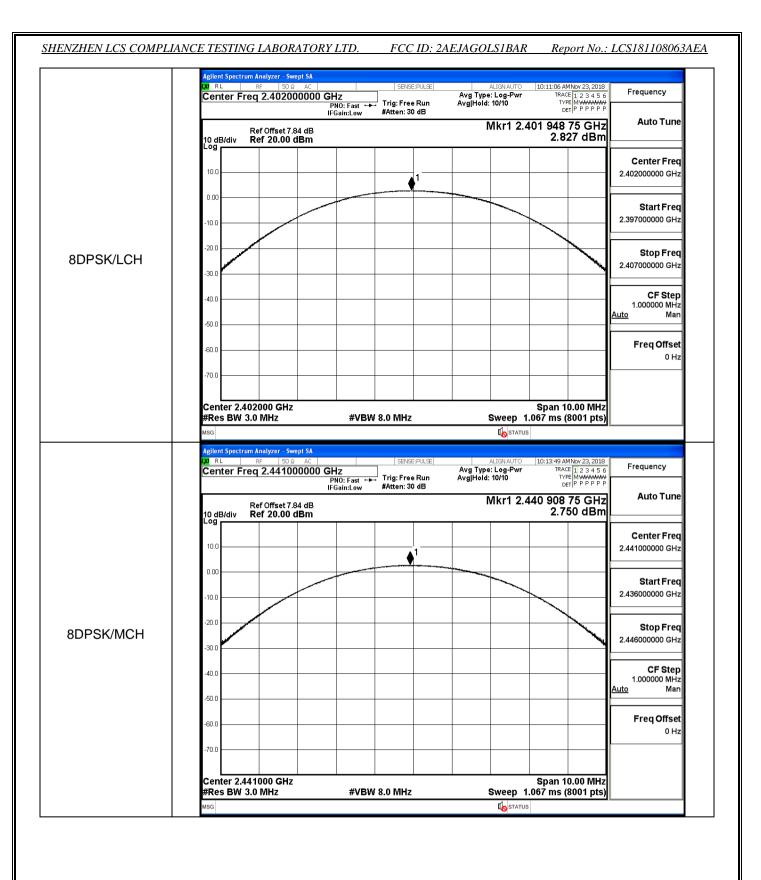
## **A.1 Maxmum Conducted Peak Output Power**

Mode	Channel.	Maximum Peak Output Power [dBm]	Maximum Average Output Power [dBm]	Limit [dBm]	Verdict
	LCH	3.370	3.195	21	PASS
GFSK	MCH	3.316	3.139	21	PASS
	НСН	2.880	2.706	21	PASS
	LCH	2.711	2.496	21	PASS
π/4DQPSK	MCH	2.613	2.426	21	PASS
	НСН	2.091	1.944	21	PASS
8DPSK	LCH	2.827	2.656	21	PASS
	MCH	2.750	2.556	21	PASS
	НСН	2.294	2.125	21	PASS



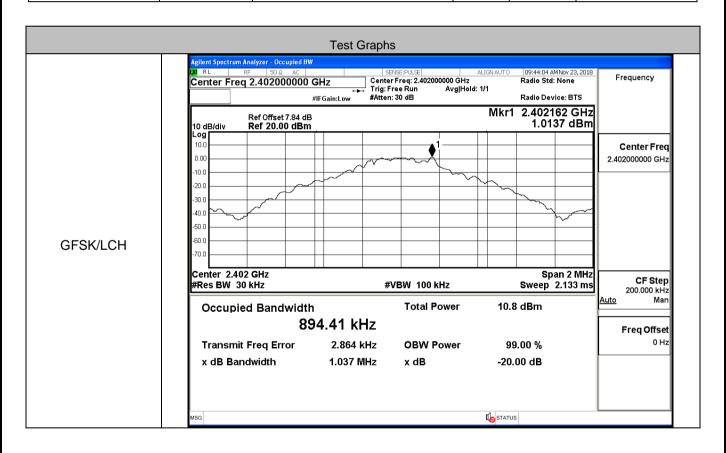






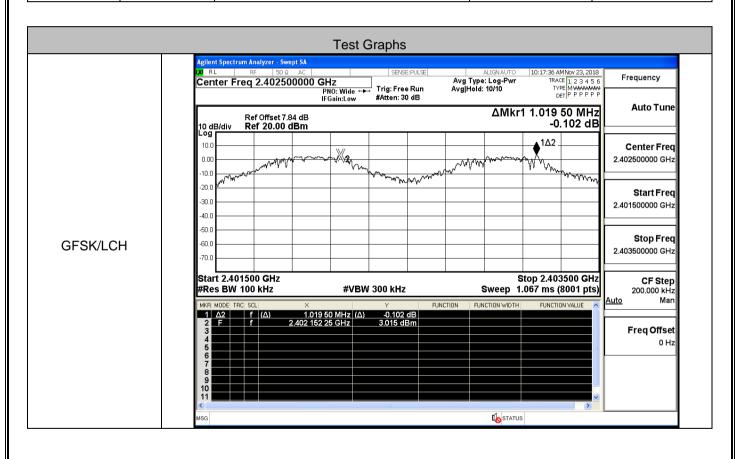
### A.2 20dB Bandwidth

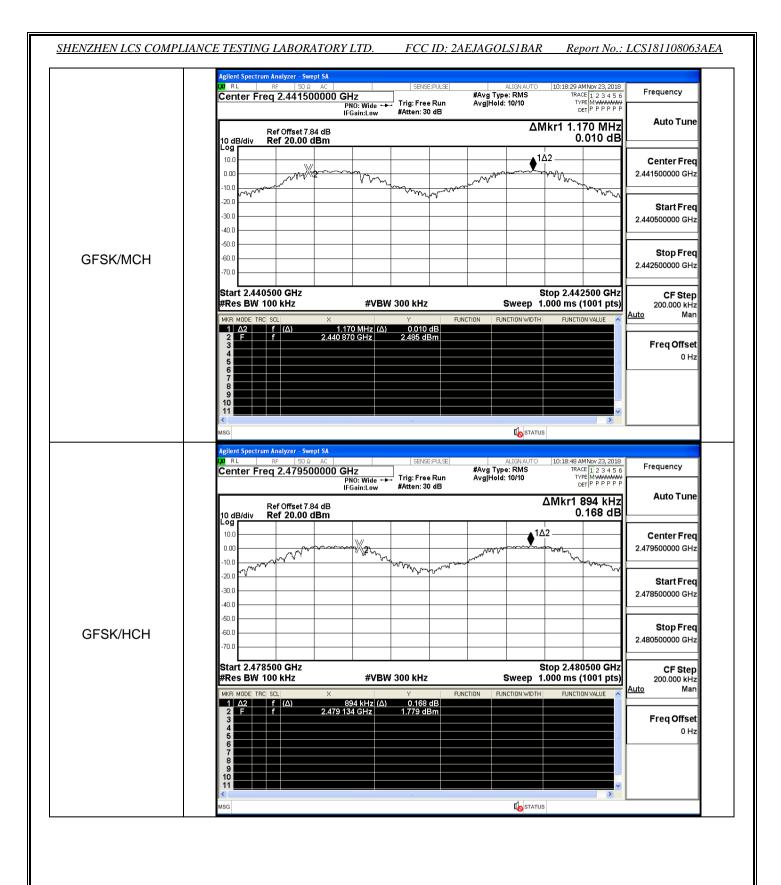
Mode	Channel.	20dB Bandwidth [MHz]	Limit [MHz]	Verdict
	LCH	1.037	Not Specified	PASS
GFSK	MCH	1.033	Not Specified	PASS
	HCH	1.036	Not Specified	PASS
	LCH	1.291	Not Specified	PASS
π/4DQPSK	MCH	1.293	Not Specified	PASS
	HCH	1.290	Not Specified	PASS
	LCH	1.297	Not Specified	PASS
8DPSK	MCH	1.293	Not Specified	PASS
	НСН	1.295	Not Specified	PASS

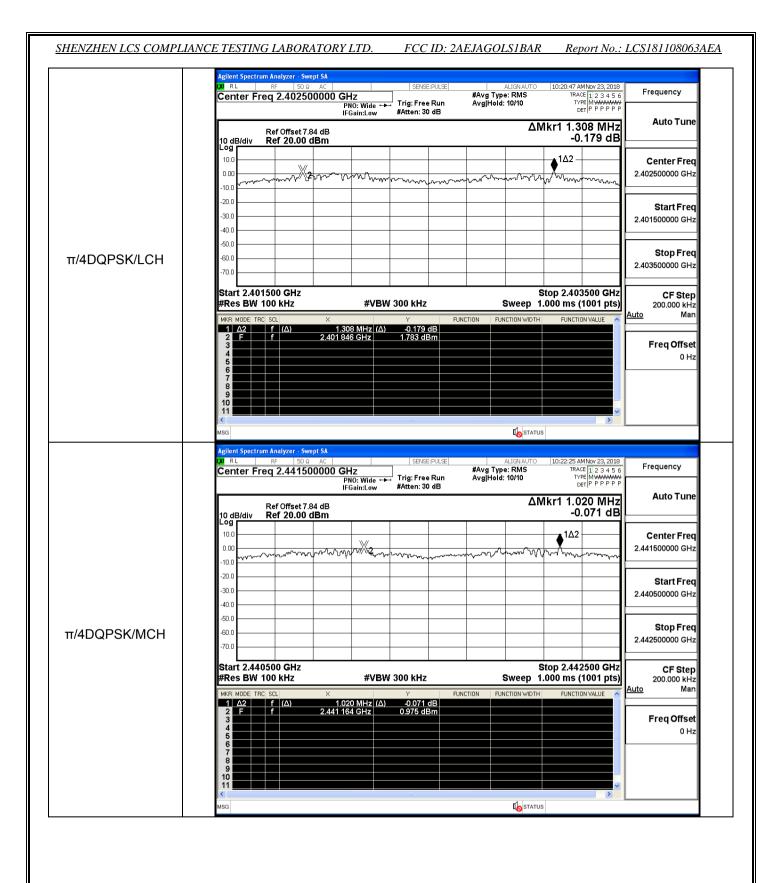


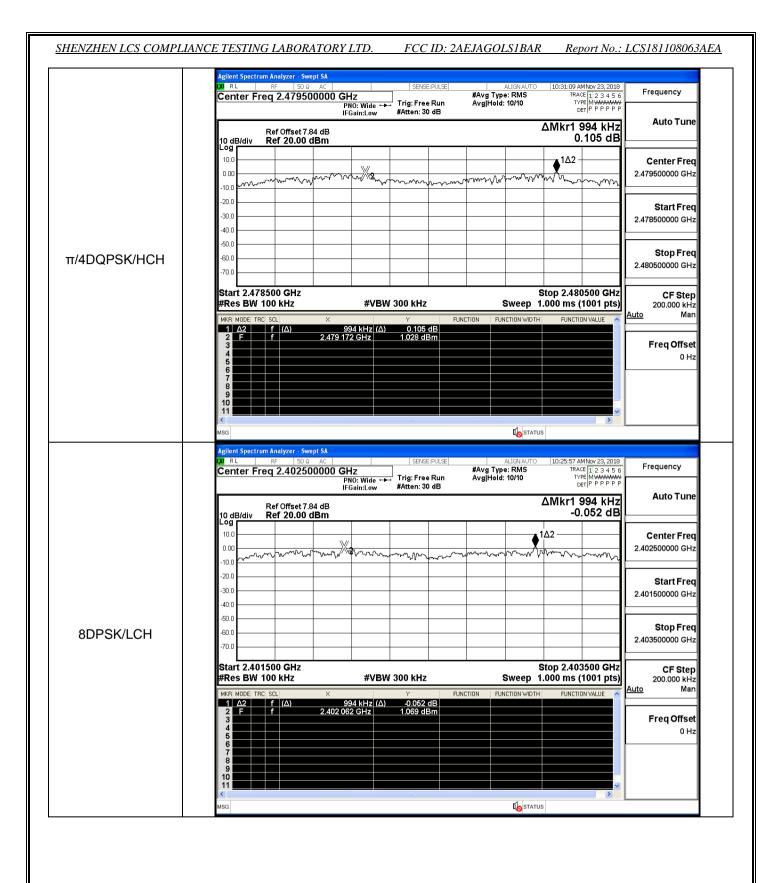
## **A.3 Carrier Frequency Separation**

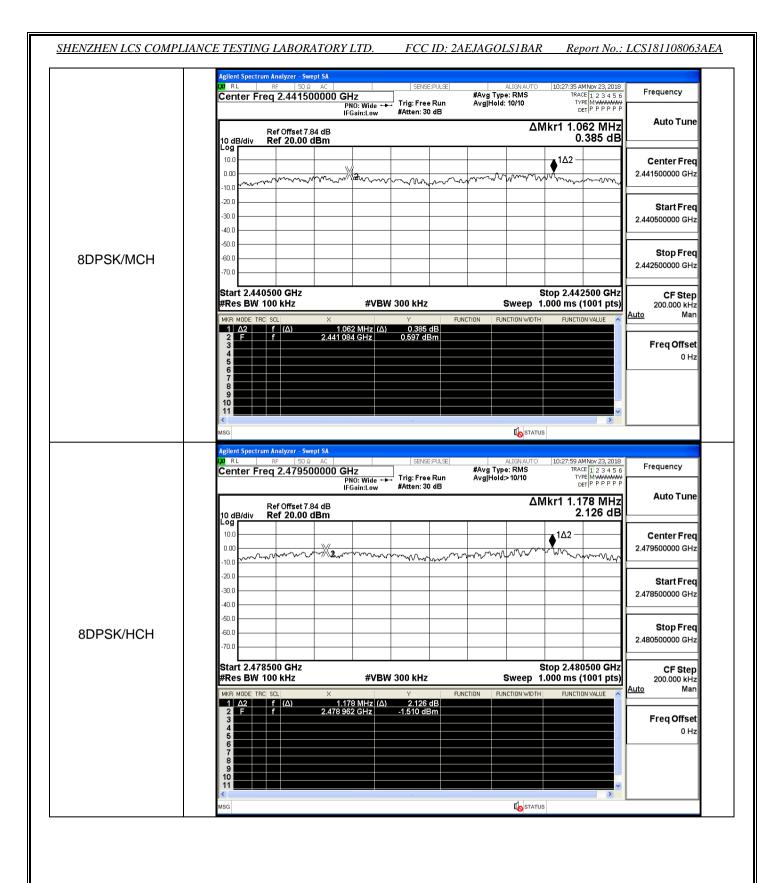
Mode	Channel.	Carrier Frequency Separation [MHz]	Limit [MHz]	Verdict
	LCH	1.019	0.691	PASS
GFSK	MCH	1.170	0.691	PASS
	HCH	0.894	0.691	PASS
	LCH	1.308	0.862	PASS
π/4DQPSK	MCH	1.020	0.862	PASS
	HCH	0.994	0.862	PASS
	LCH	0.994	0.865	PASS
8DPSK	BDPSK MCH 1.062		0.865	PASS
	HCH	1.178	0.865	PASS





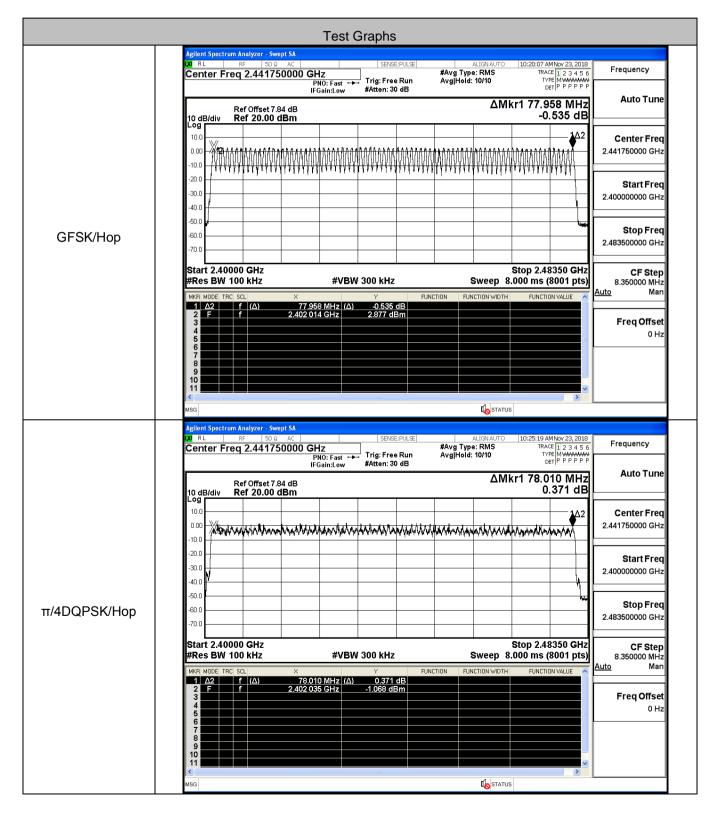


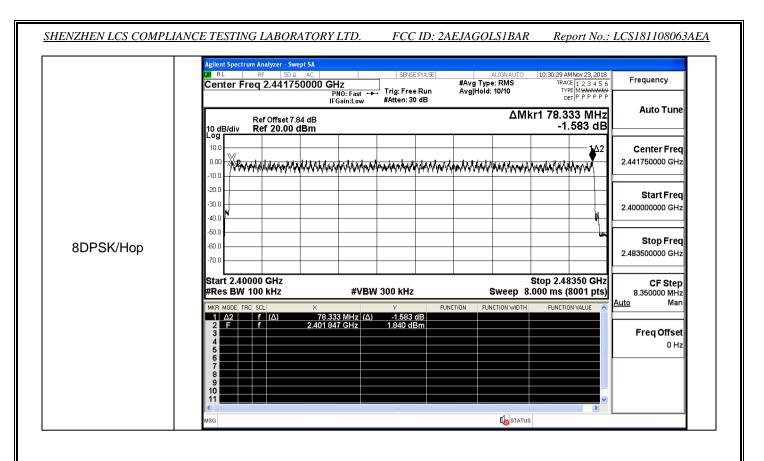




## A.4 Hopping Channel Number

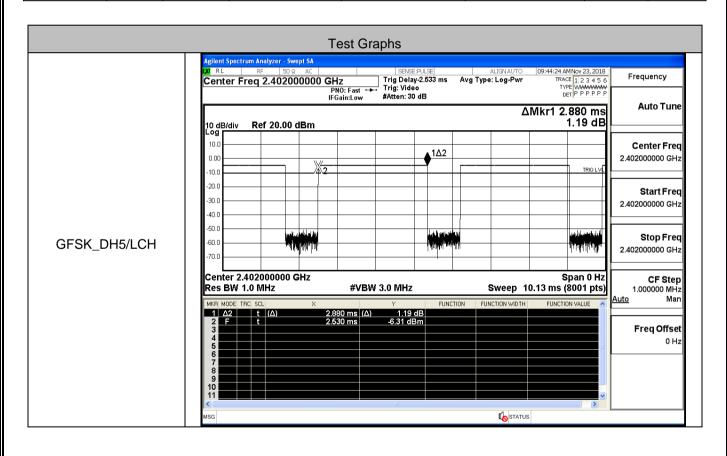
Mode	Channel.	Number of Hopping Channel [N]	Limit [N]	Verdict
GFSK	Нор	79	>=15	PASS
π/4DQPSK	Нор	79	>=15	PASS
8DPSK	Нор	79	>=15	PASS

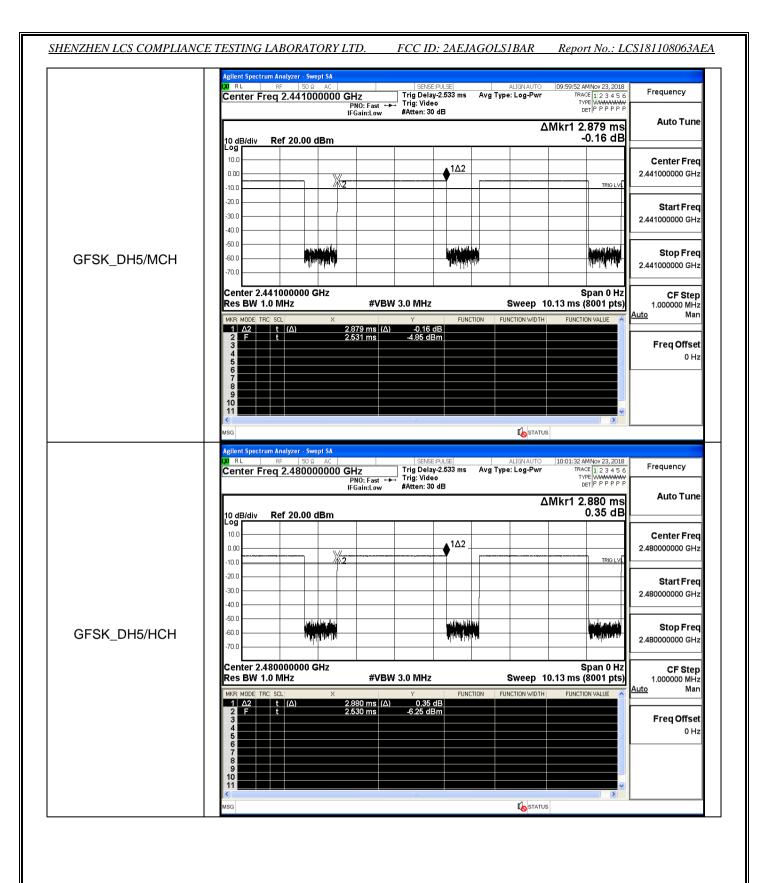


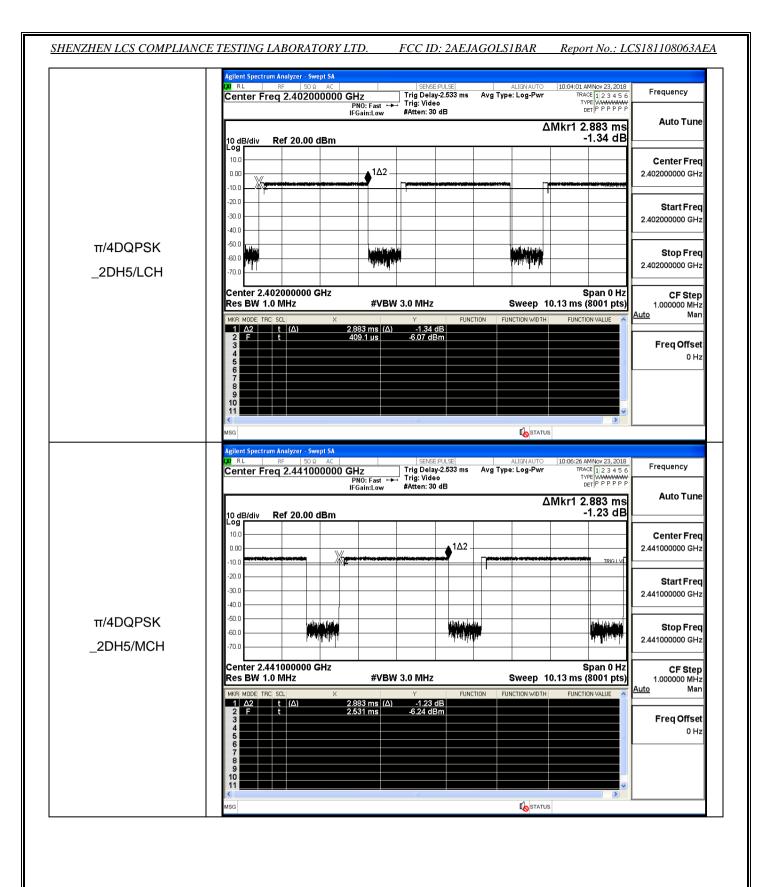


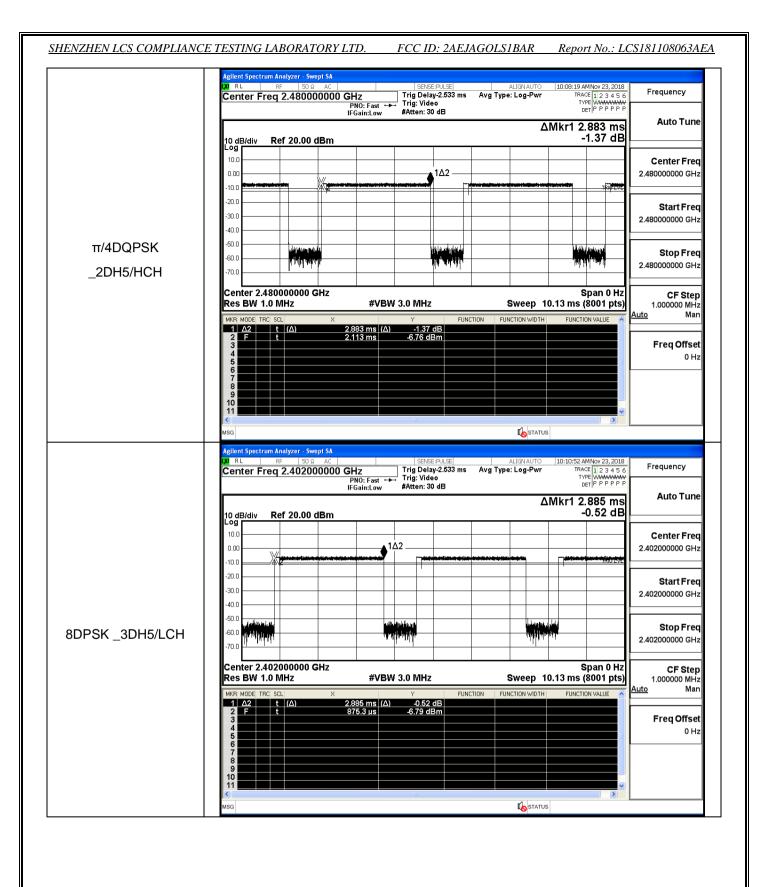
### A.5 Dwell Time

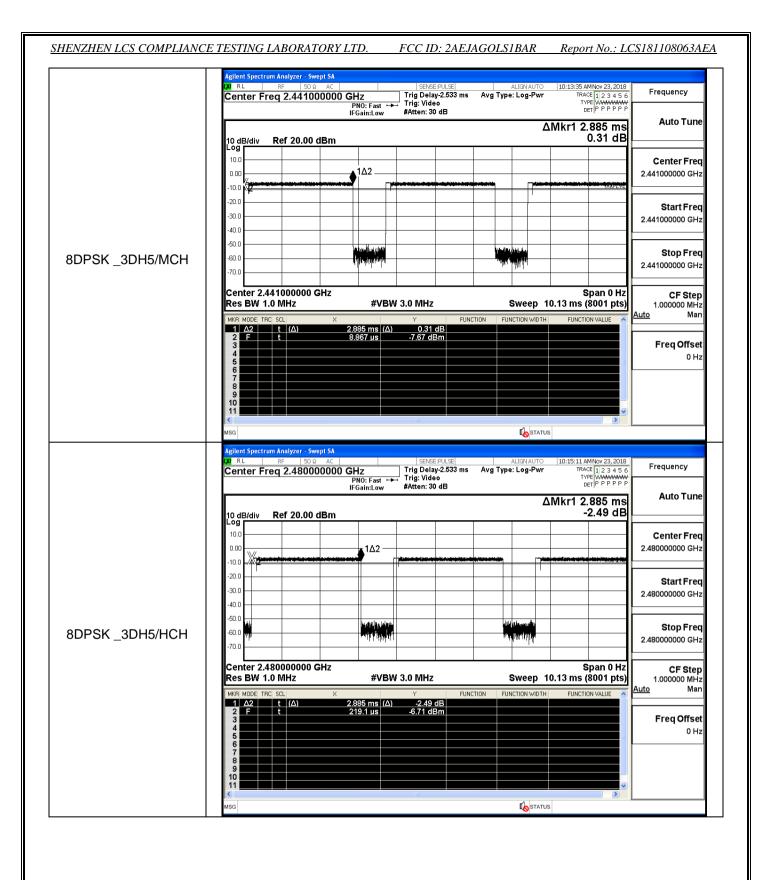
Mode	Packet	Channel	Burst Width [ms/hop/ch]	Total Hops[hop*ch]	Dwell Time[s]	Limit [s]	Verdict
	DH5	LCH	2.88	106.7	0.307	0.4	PASS
GFSK	DH5	MCH	2.88	106.7	0.307	0.4	PASS
	DH5	НСН	2.88	106.7	0.307	0.4	PASS
	2DH5	LCH	2.88	106.7	0.307	0.4	PASS
π/4DQPSK	2DH5	MCH	2.88	106.7	0.307	0.4	PASS
	2DH5	НСН	2.88	106.7	0.307	0.4	PASS
	3DH5	LCH	2.89	106.7	0.308	0.4	PASS
8DPSK	3DH5	MCH	2.89	106.7	0.308	0.4	PASS
	3DH5	НСН	2.89	106.7	0.308	0.4	PASS





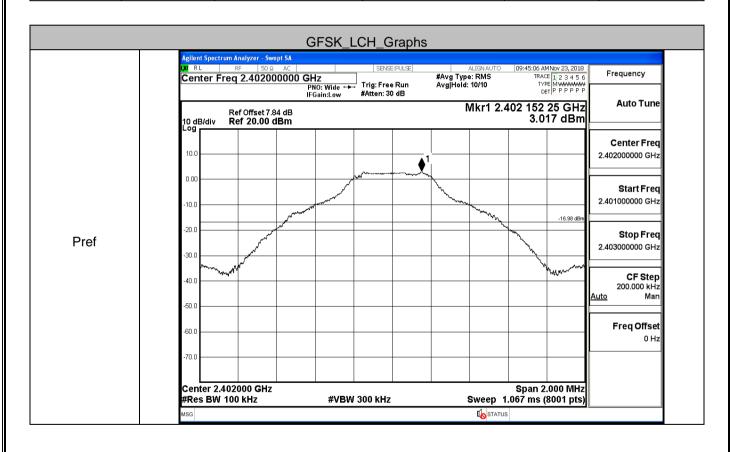






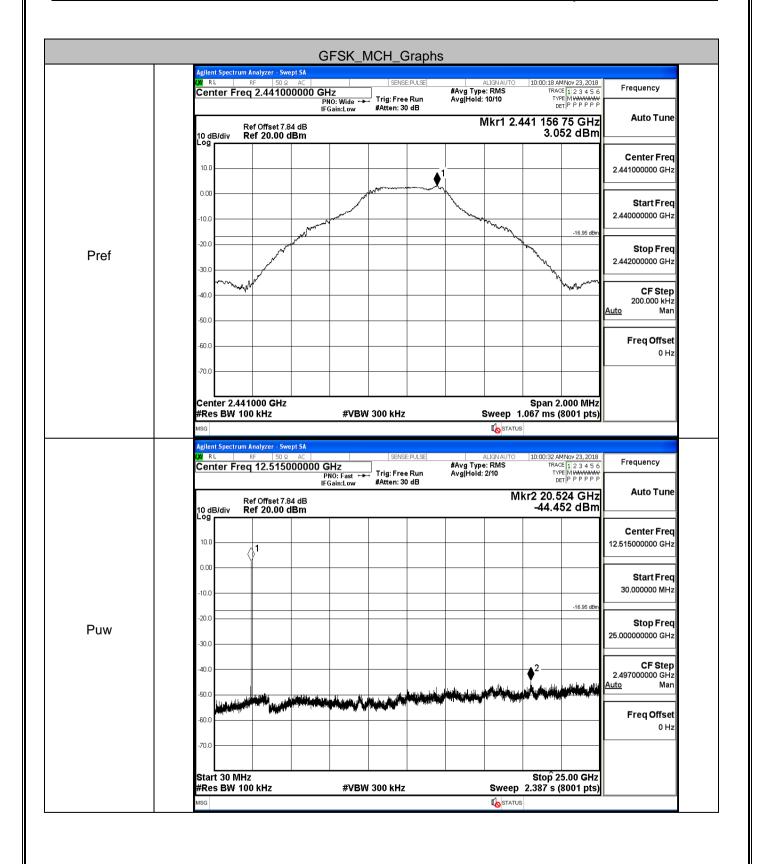
### A.6 RF Conducted Spurious Emissions

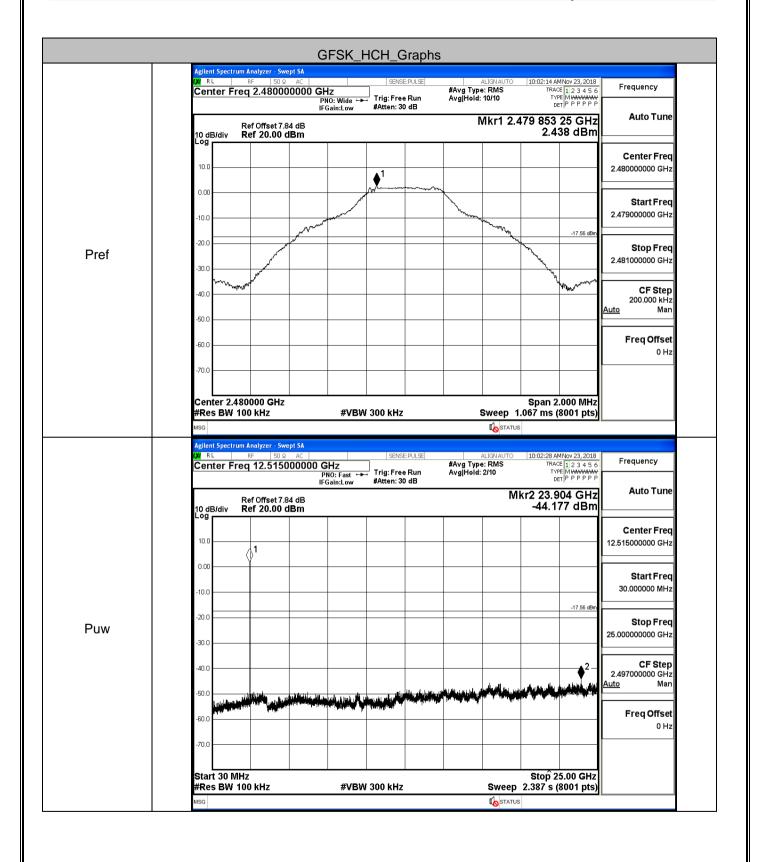
Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
	LCH	3.017	-44.705	-16.983	PASS
GFSK	MCH	3.052	-44.452	-16.948	PASS
	НСН	2.438	-44.177	-17.562	PASS
	LCH	1.623	-44.377	-18.377	PASS
π/4DQPSK	MCH	1.609	-43.661	-18.391	PASS
	НСН	1.183	-44.760	-18.817	PASS
	LCH	1.606	-44.671	-18.394	PASS
8DPSK	MCH	1.649	-44.299	-18.351	PASS
	НСН	1.193	-45.053	-18.807	PASS

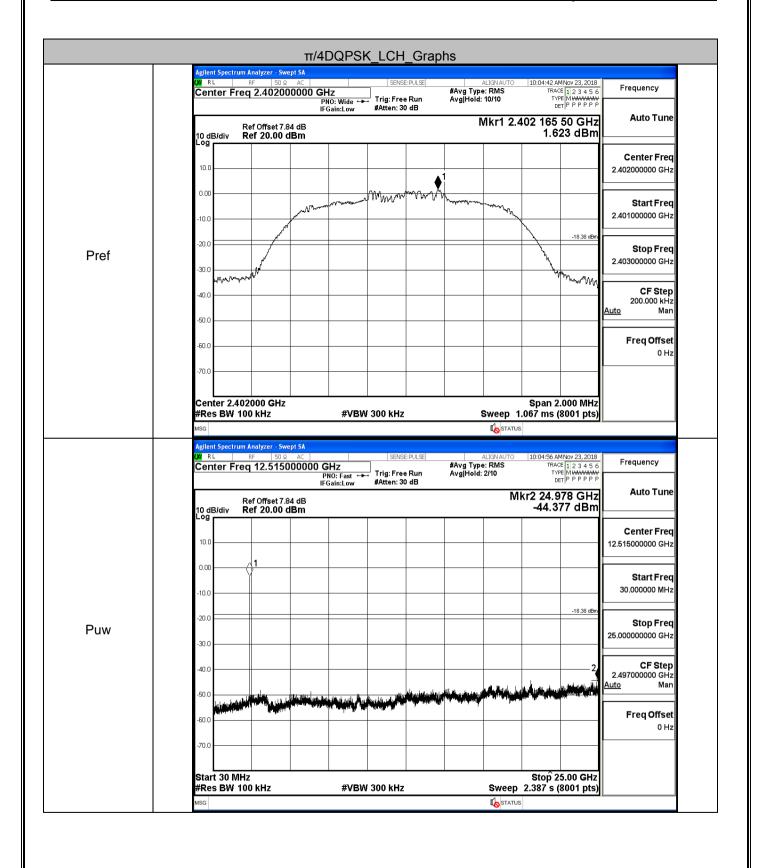


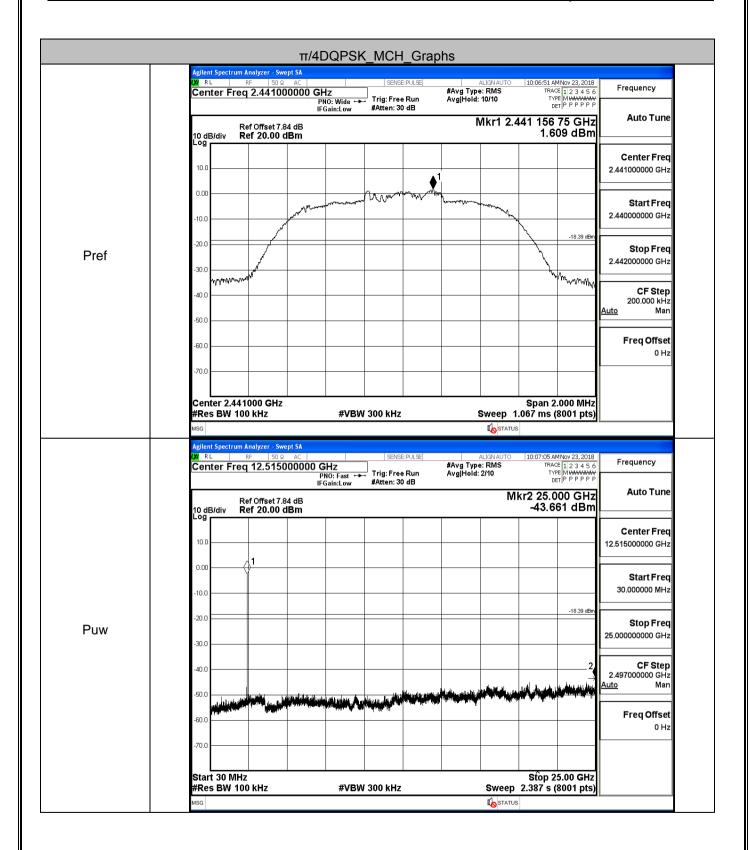
**#VBW** 300 kHz

STATUS



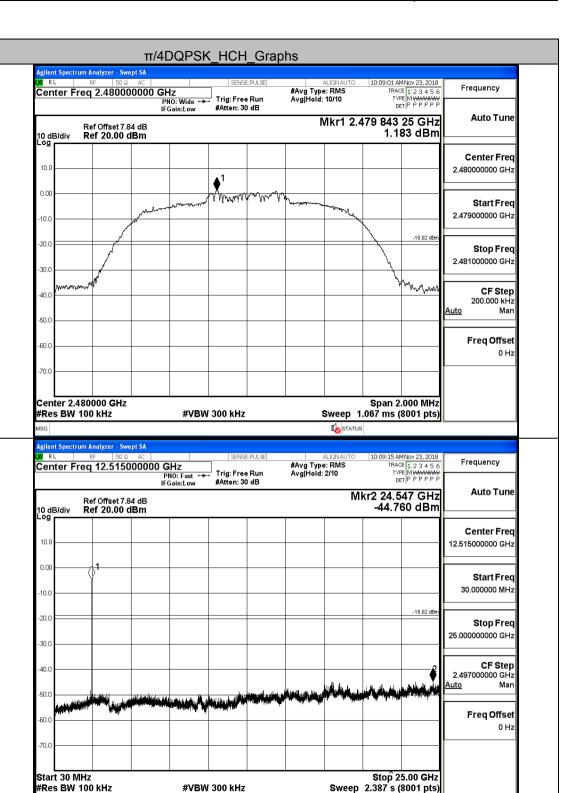




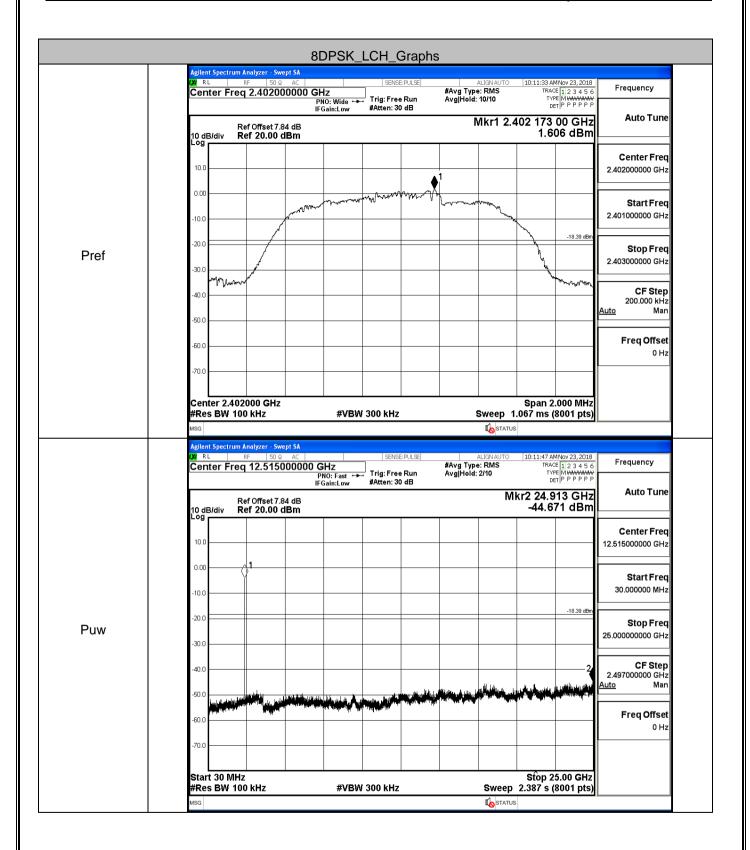


Pref

Puw



STATUS



Freq Offset

Stop 25.00 GHz

Sweep 2.387's (8001 pts)

STATUS

0 Hz

Pref

Puw

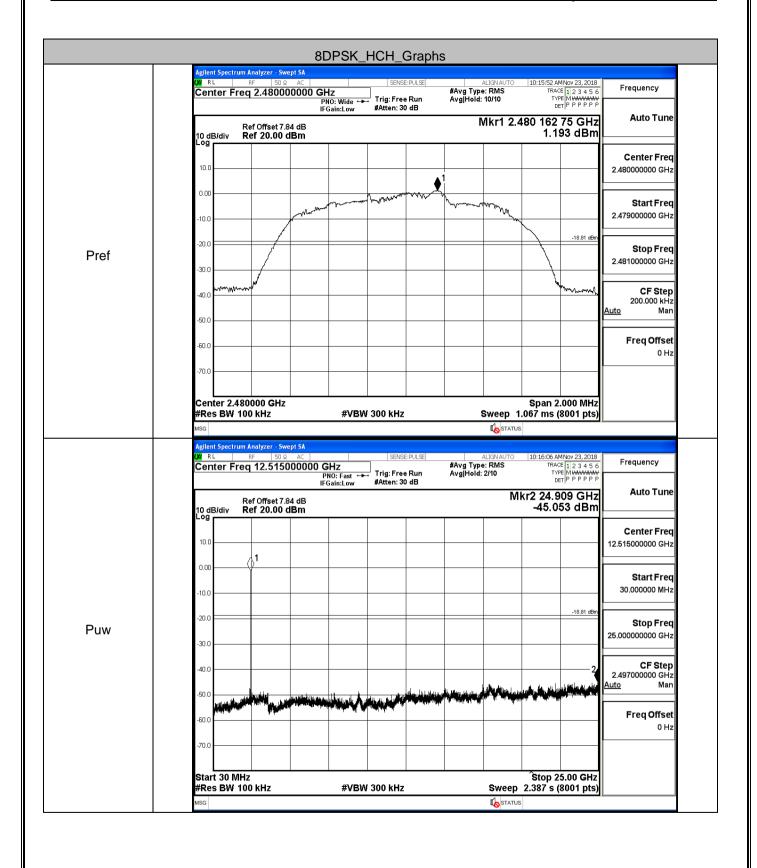
-60.0

-70.0

Start 30 MHz

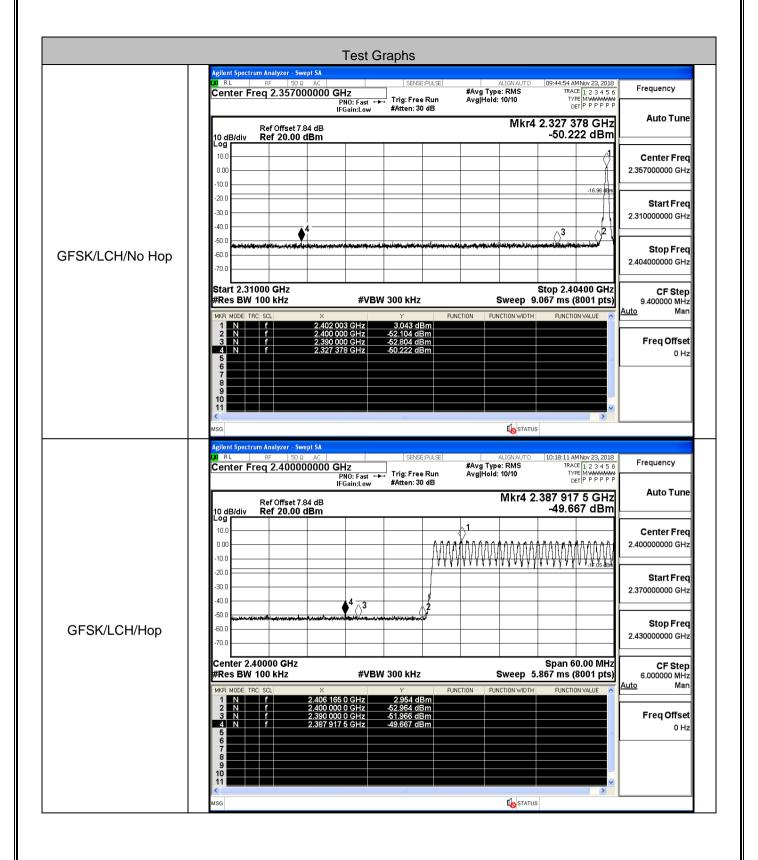
#Res BW 100 kHz

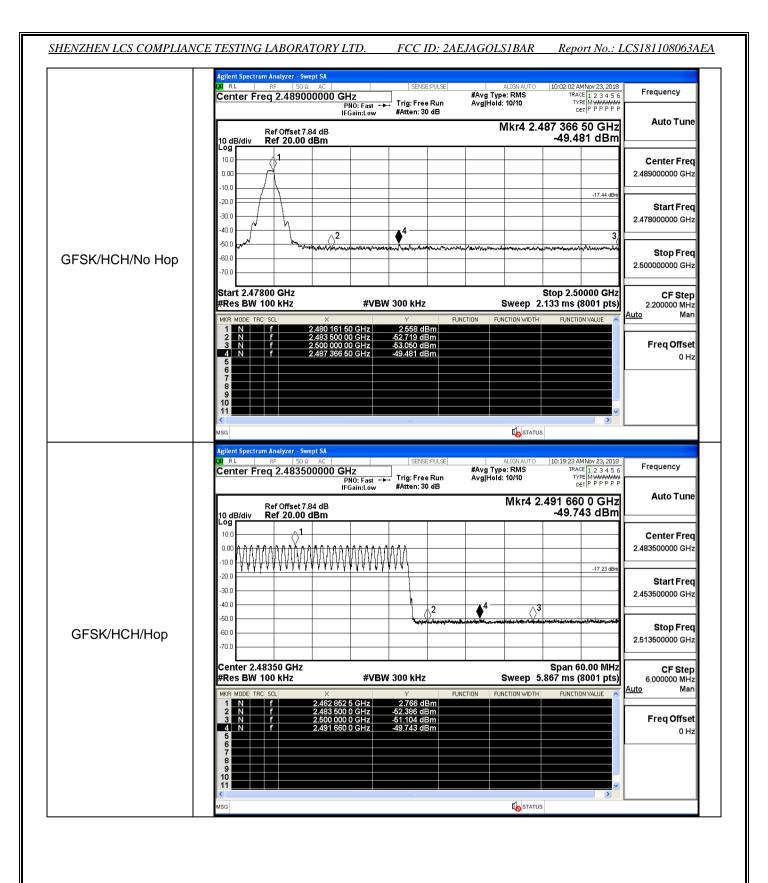
**#VBW** 300 kHz

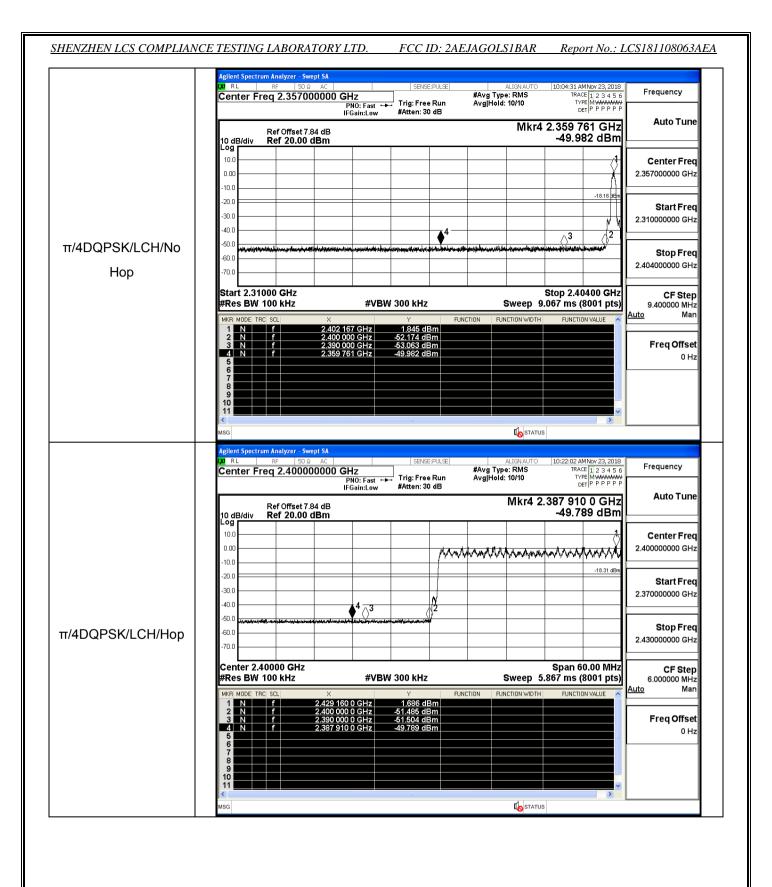


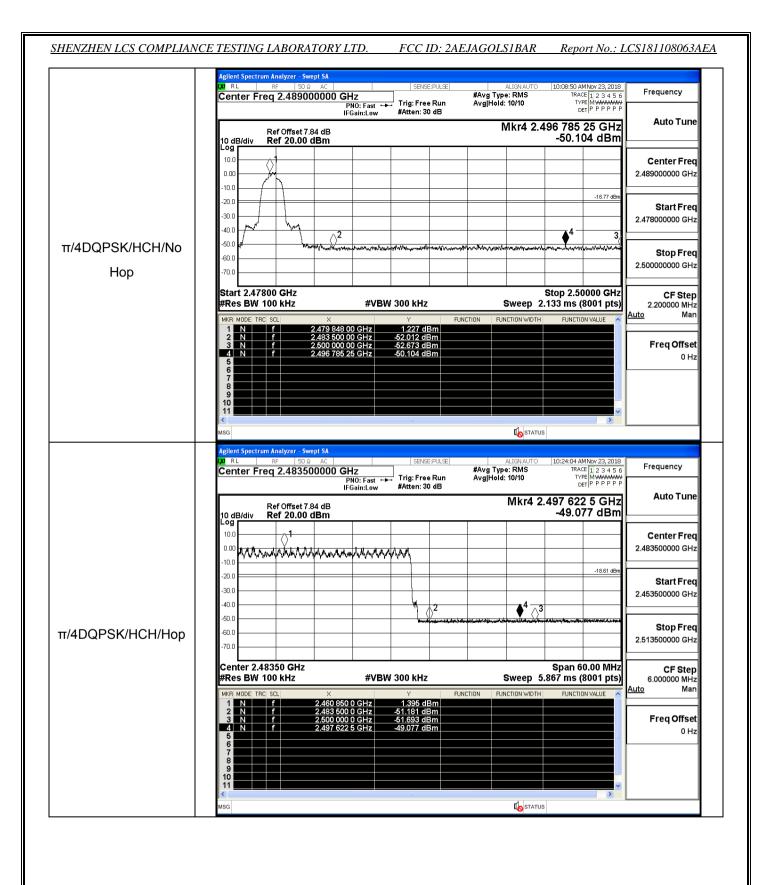
## A.7 Band-edge for RF Conducted Emissions

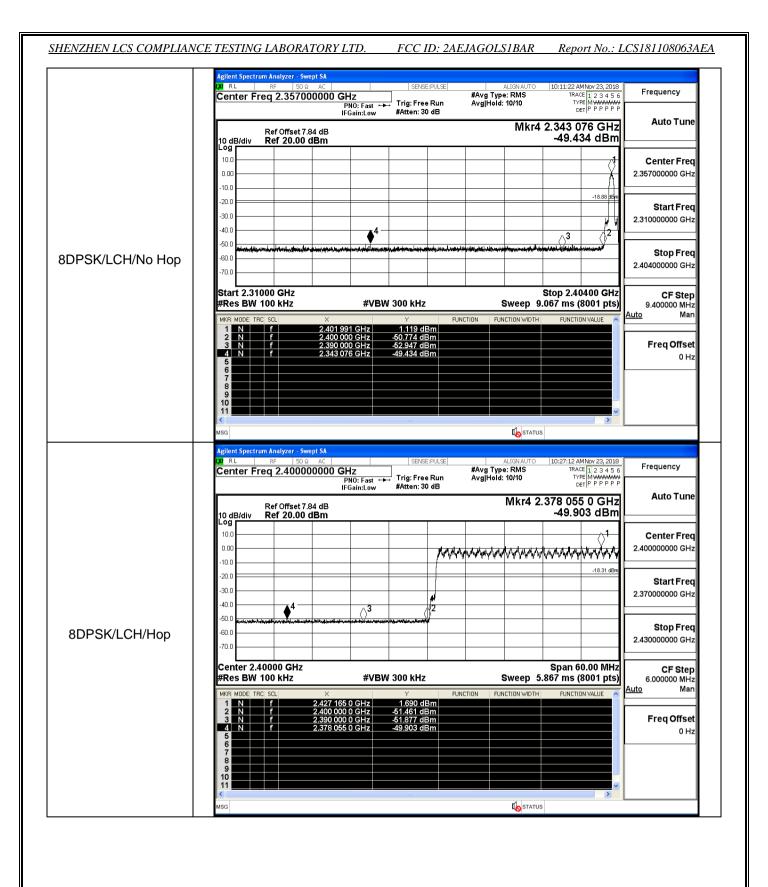
Mode	Channel	Carrier Frequency [MHz]	Carrier Power [dBm]	Frequency Hopping	Max Spurious Level [dBm]	Limit [dBm]	Verdict	
		0.400	3.043	Off	-50.222	-16.96	PASS	
2-21/	LCH	2402	2.954	On	-49.667	-17.05	PASS	
GFSK	нсн			2.558	Off	-49.481	-17.44	PASS
		2480	2.766	On	-49.743	-17.23	PASS	
	LCH			1.845	Off	-49.982	-18.16	PASS
		2402	1.686	On	-49.789	-18.31	PASS	
π/4DQPSK	НСН		1.227	Off	-50.104	-18.77	PASS	
		2480	1.395	On	-49.077	-18.61	PASS	
			1.119	Off	-49.434	-18.88	PASS	
	LCH	2402	1.690	On	-49.903	-18.31	PASS	
8DPSK			1.207	Off	-50.611	-18.79	PASS	
	HCH	2480	1.353	On	-49.477	-18.65	PASS	

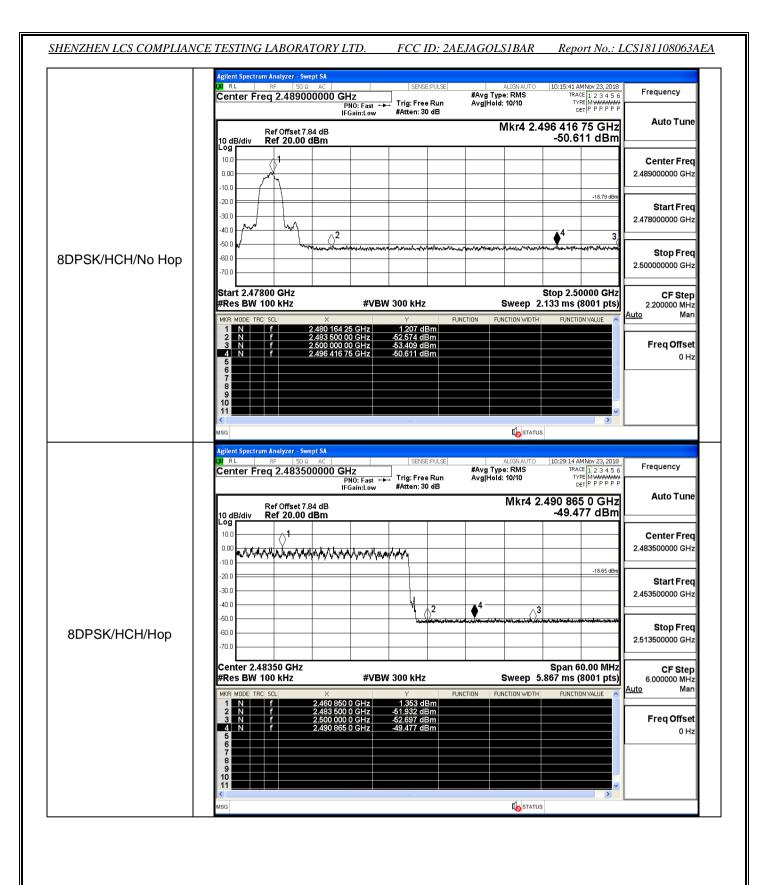






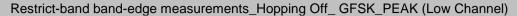


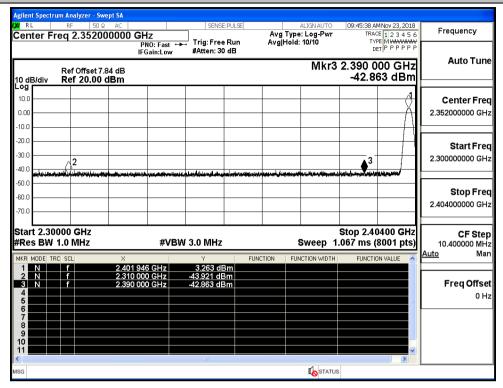




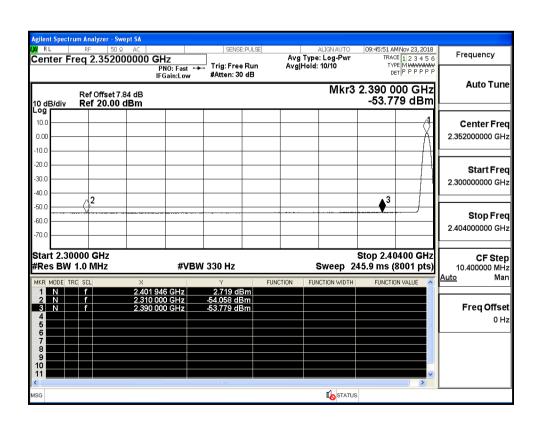
## A.8 Restrict-band band-edge measurements

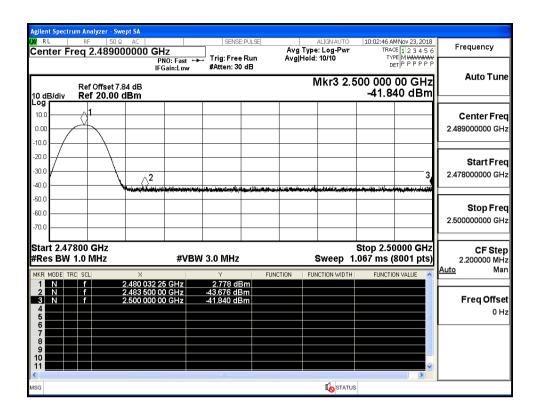
Test Mode	Hopping	Freq.	Power [dBm]	Gain	Ground Factor	E [dBuV/m]	Detector	Limit [dBuV/m]	Verdict
	Off	2310.0	-43.92	2.0	0	53.34	PEAK	74	PASS
	Off	2310.0	-54.06	2.0	0	43.20	AV	54	PASS
	Off	2390.0	-42.86	2.0	0	54.39	PEAK	74	PASS
	Off	2390.0	-53.78	2.0	0	43.48	AV	54	PASS
GFSK	Off	2483.5	-43.68	2.0	0	53.58	PEAK	74	PASS
	Off	2483.5	-53.42	2.0	0	43.84	AV	54	PASS
	Off	2500.0	-41.84	2.0	0	55.42	PEAK	74	PASS
	Off	2500.0	-53.33	2.0	0	43.92	AV	54	PASS
	Off	2310.0	-44.23	2.0	0	53.03	PEAK	74	PASS
	Off	2310.0	-53.98	2.0	0	43.28	AV	54	PASS
	Off	2390.0	-43.38	2.0	0	53.88	PEAK	74	PASS
	Off	2390.0	-53.72	2.0	0	43.54	AV	54	PASS
π/4DQPSK	Off	2483.5	-43.00	2.0	0	54.26	PEAK	74	PASS
	Off	2483.5	-53.39	2.0	0	43.87	AV	54	PASS
	Off	2500.0	-42.20	2.0	0	55.06	PEAK	74	PASS
	Off	2500.0	-53.42	2.0	0	43.84	AV	54	PASS
	Off	2310.0	-43.26	2.0	0	54.00	PEAK	74	PASS
	Off	2310.0	-54.10	2.0	0	43.15	AV	54	PASS
	Off	2390.0	-43.32	2.0	0	53.94	PEAK	74	PASS
	Off	2390.0	-53.72	2.0	0	43.53	AV	54	PASS
8DPSK	Off	2483.5	-42.61	2.0	0	54.65	PEAK	74	PASS
	Off	2483.5	-53.32	2.0	0	43.94	AV	54	PASS
	Off	2500.0	-43.36	2.0	0	53.90	PEAK	74	PASS
	Off	2500.0	-53.36	2.0	0	43.90	AV	54	PASS



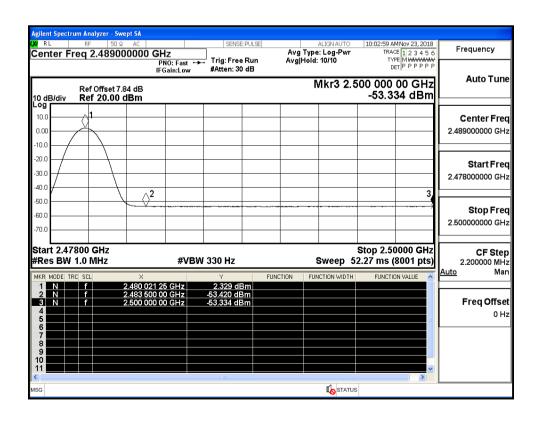


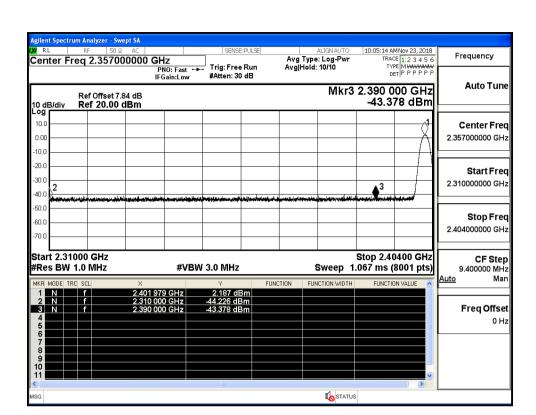
#### Restrict-band band-edge measurements\_Hopping Off\_ GFSK\_Average (Low Channel)



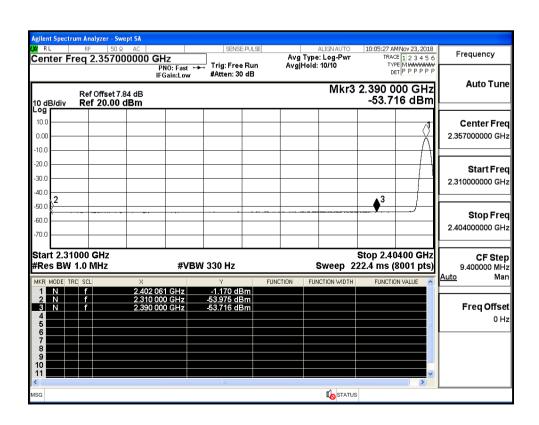


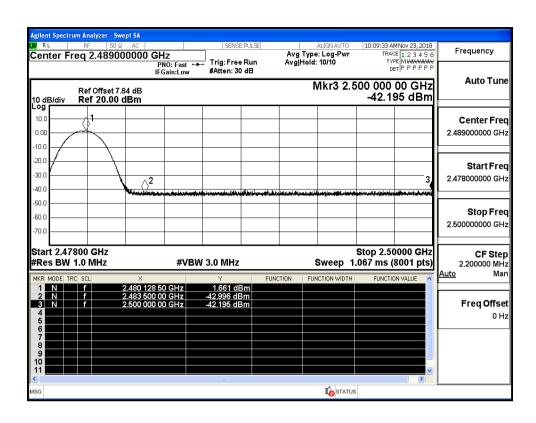
Restrict-band band-edge measurements\_Hopping Off\_ GFSK\_Average (High Channel)



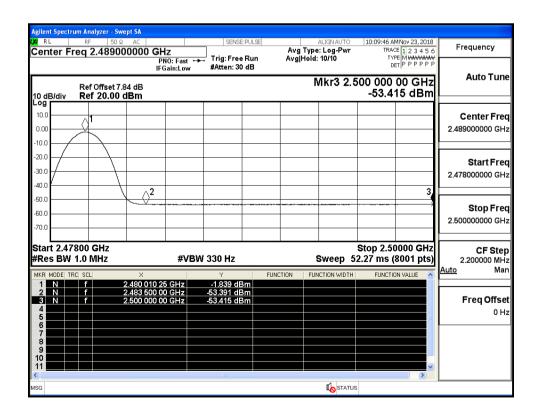


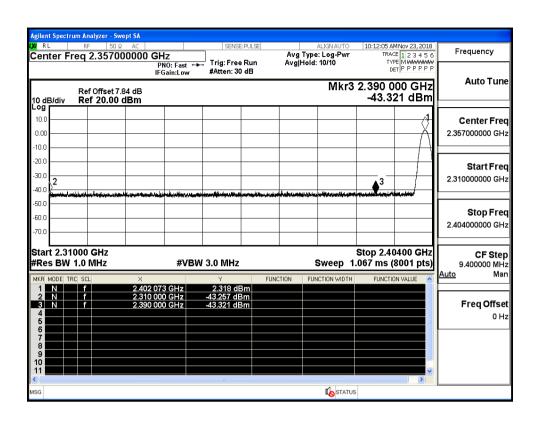
Restrict-band band-edge measurements\_Hopping Off\_π/4-DQPSK\_Average (Low Channel)



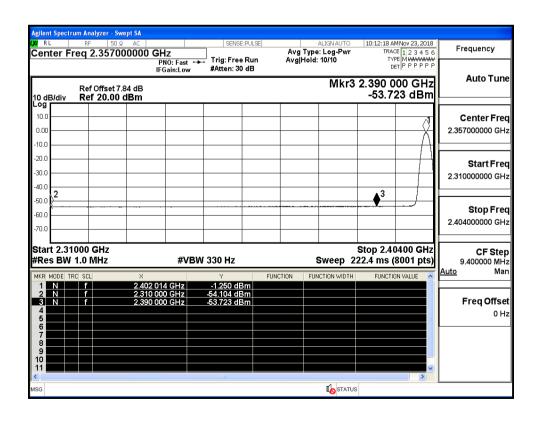


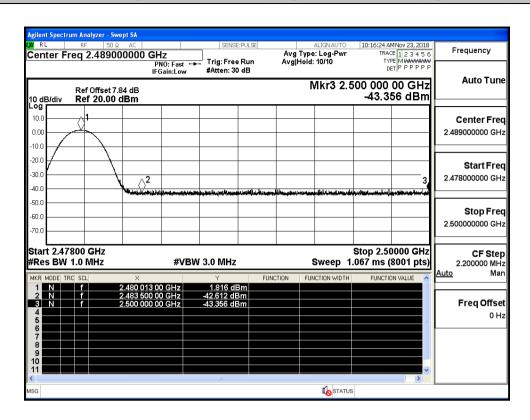
Restrict-band band-edge measurements\_Hopping Off\_π/4-DQPSK\_Average (High Channel)





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





Restrict-band band-edge measurements\_Hopping Off\_8DPSK\_Average (High Channel)

