# Appendix A

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

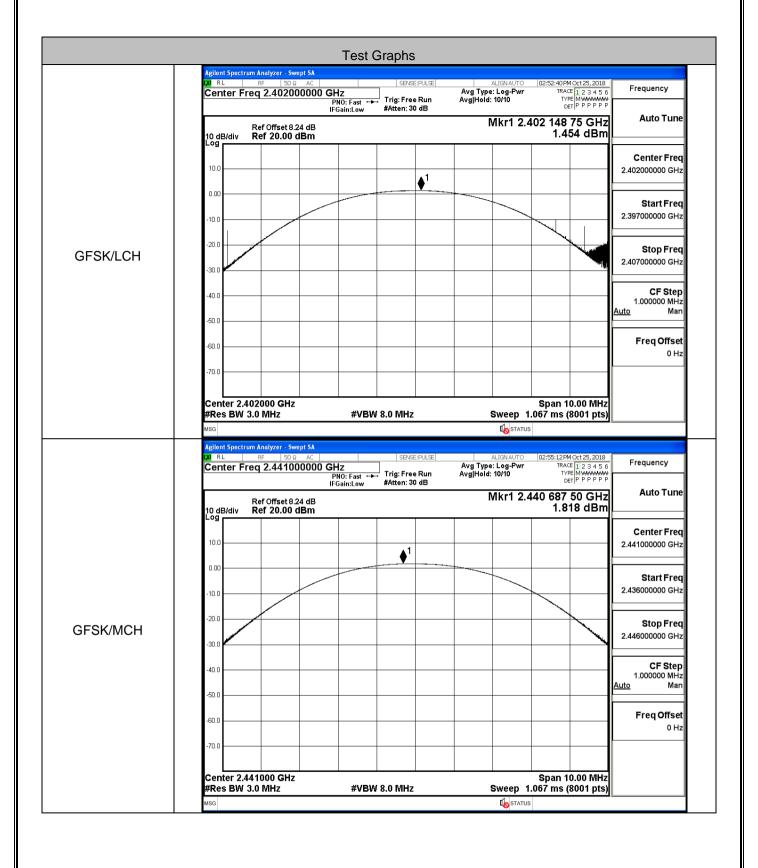
**Product Name: Digital Audio Player** Trade Mark: N/A **Test Model: PAW Gold Touch** 

## **Environmental Conditions**

Temperature:	24.1 ° C
Relative Humidity:	53.4%
ATM Pressure:	100.0 kPa
Test Engineer:	Diamond.Lu
Supervised by:	Jayden.Zhuo

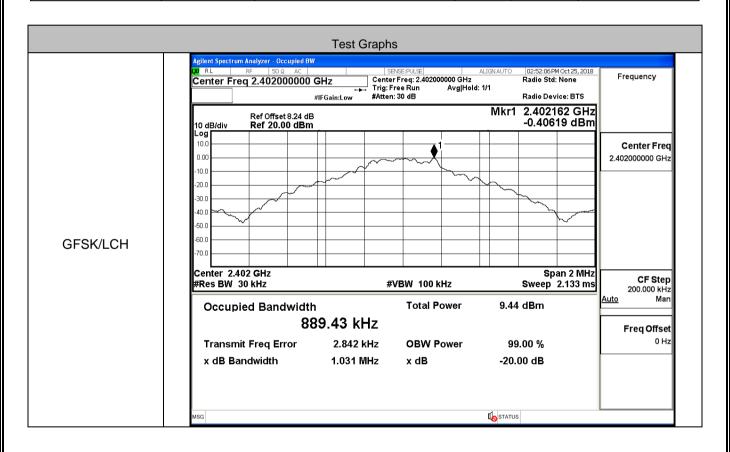
## **A.1 Maxmum Conducted Peak Output Power**

Mode	Channel.	Maximum Peak Output Power [dBm]	Limit [dBm]	Verdict
	LCH	1.454	30	PASS
GFSK	MCH	1.818	30	PASS
	НСН	0.942	30	PASS
	LCH	0.643	21	PASS
π/4DQPSK	MCH	-0.194	21	PASS
	НСН	0.575	21	PASS
8DPSK	LCH	0.847	21	PASS
	BDPSK MCH 1.237		21	PASS
	HCH	0.424	21	PASS



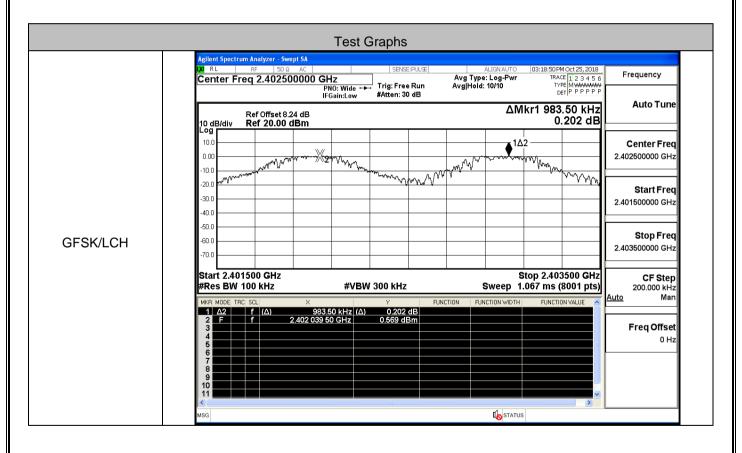
## A.2 20dB Bandwidth

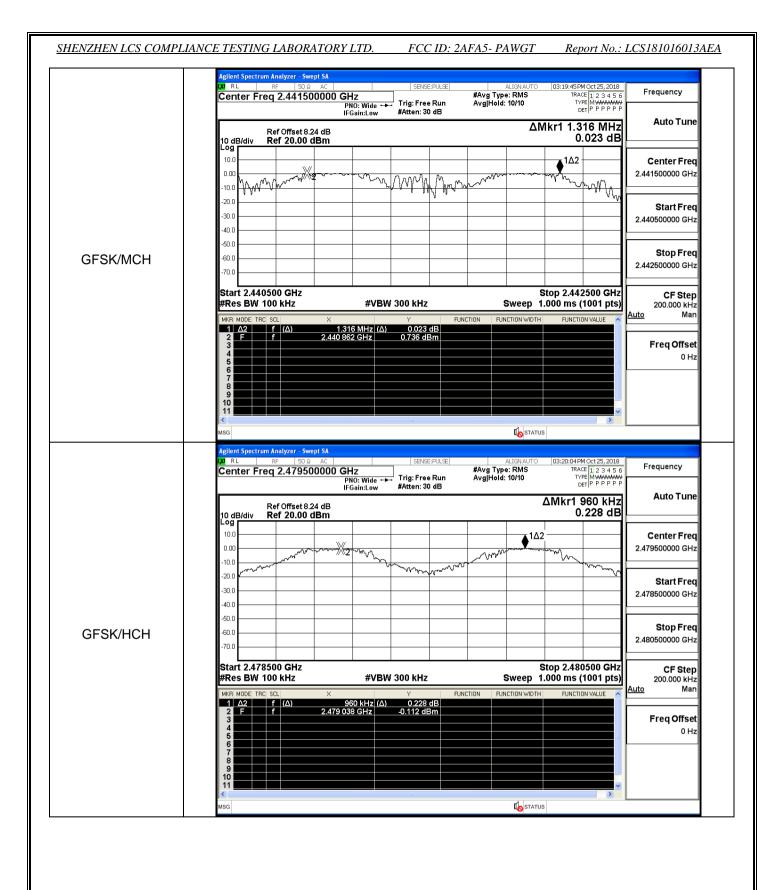
Mode	Channel.	20dB Bandwidth [MHz]	Limit [MHz]	Verdict
	LCH	1.031	Not Specified	PASS
GFSK	MCH	1.027	Not Specified	PASS
	НСН	0.9747	Not Specified	PASS
	LCH	1.289	Not Specified	PASS
π/4DQPSK	MCH	1.313	Not Specified	PASS
	HCH	1.289	Not Specified	PASS
	LCH	1.294	Not Specified	PASS
8DPSK	MCH	1.298	Not Specified	PASS
	HCH	1.295	Not Specified	PASS

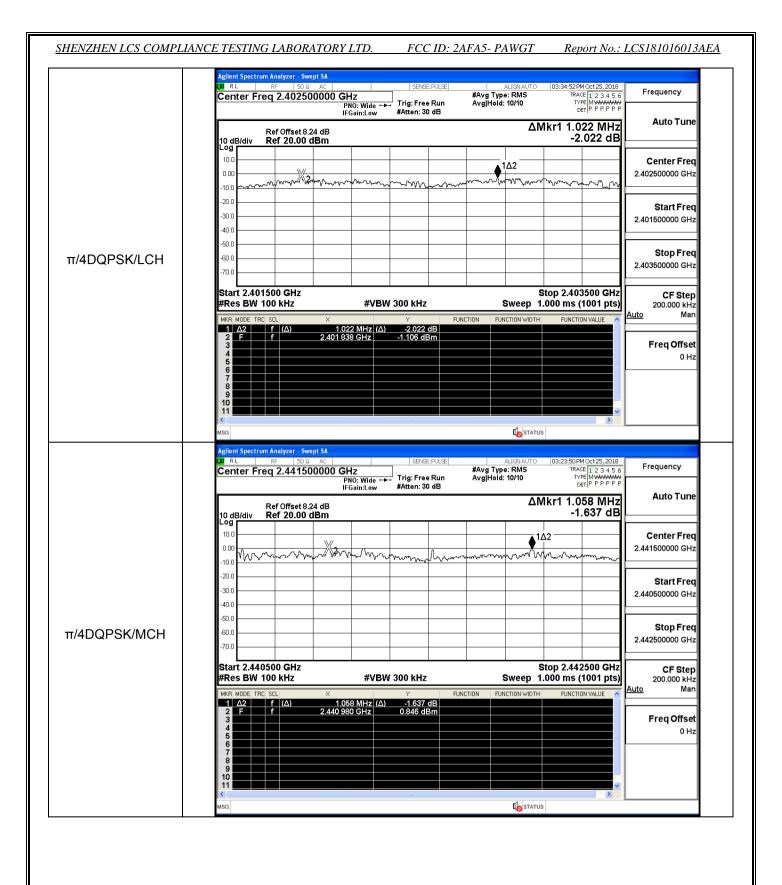


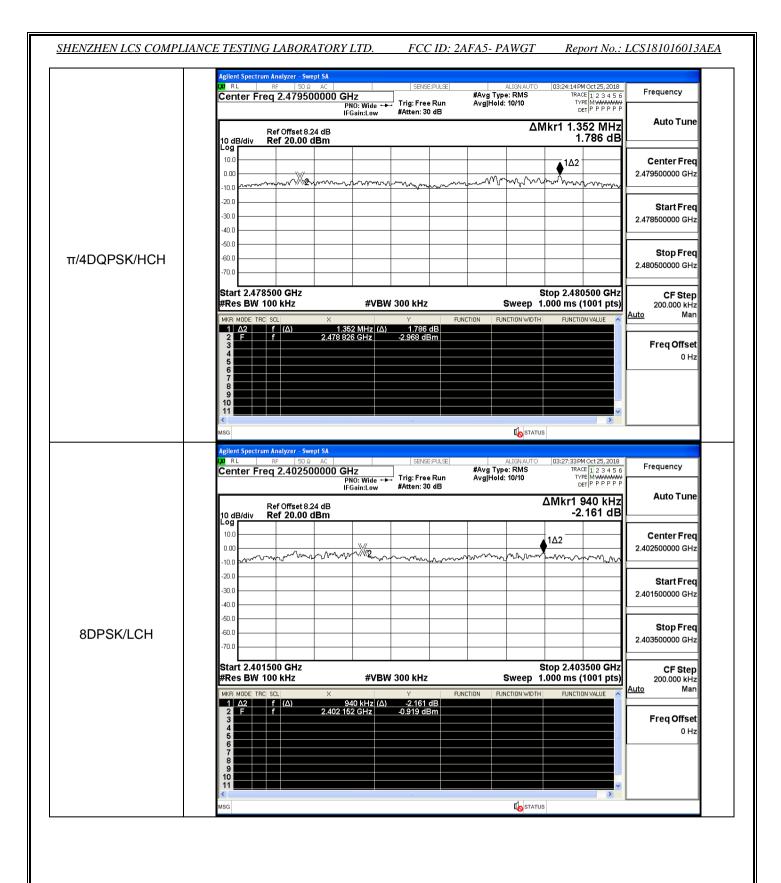
## **A.3 Carrier Frequency Separation**

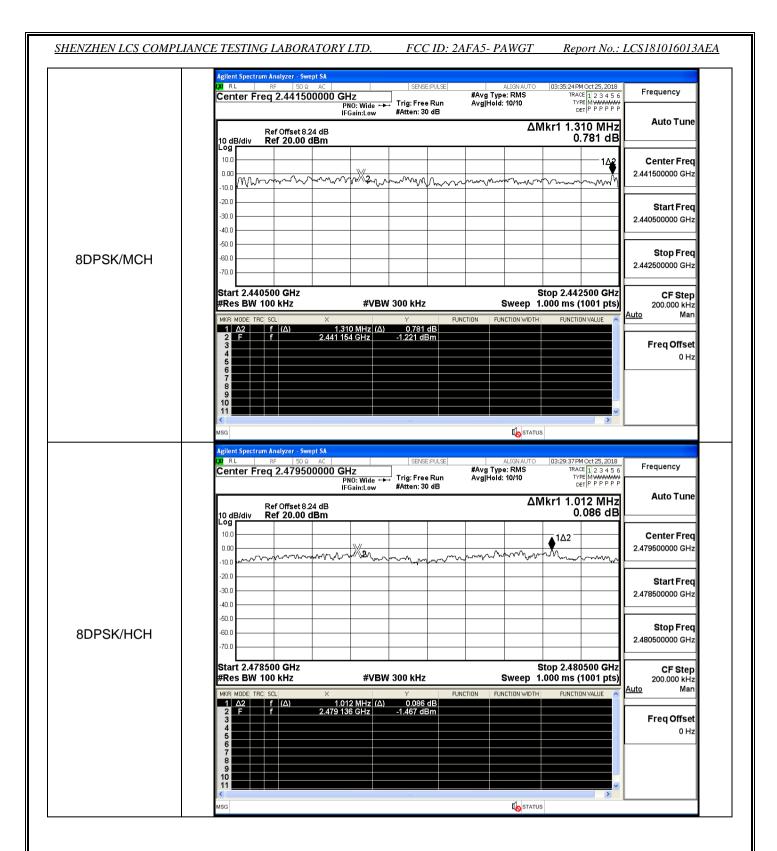
Mode	Channel.	Carrier Frequency Separation [MHz]	Limit [MHz]	Verdict
	LCH	0.984	0.687	PASS
GFSK	MCH	1.316	0.687	PASS
	HCH	0.960	0.687	PASS
	LCH	1.022	0.875	PASS
π/4DQPSK	MCH	1.058	0.875	PASS
	HCH	1.352	0.875	PASS
8DPSK	LCH	0.940	0.865	PASS
	MCH	1.310	0.865	PASS
	HCH	1.012	0.865	PASS









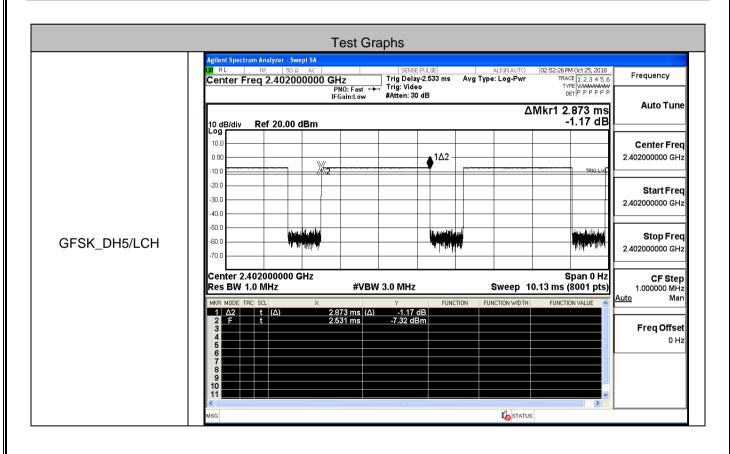


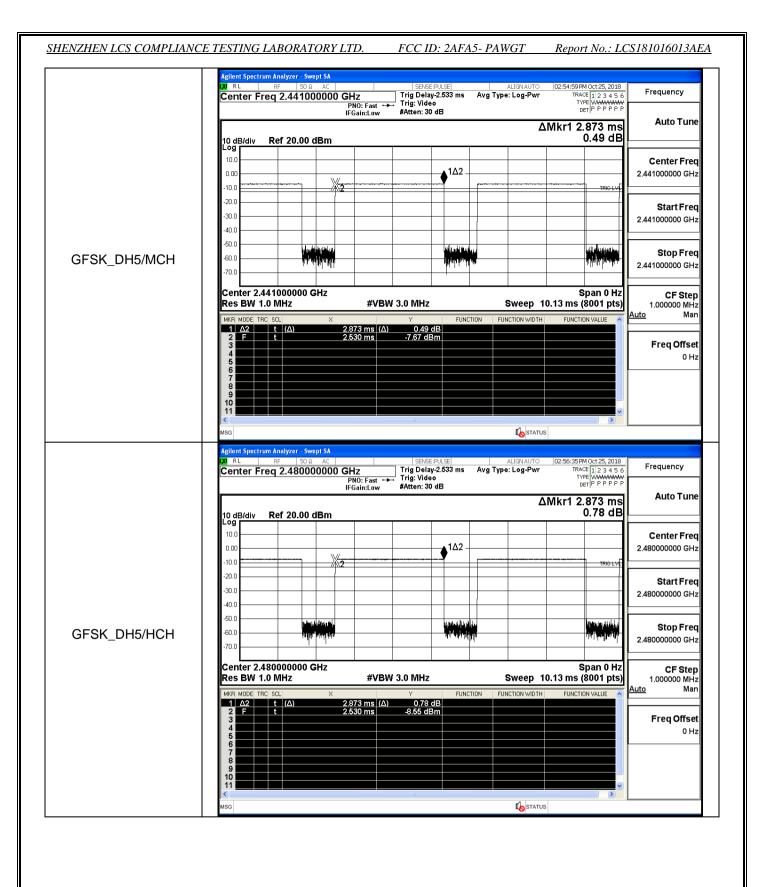
## A.4 Hopping Channel Number

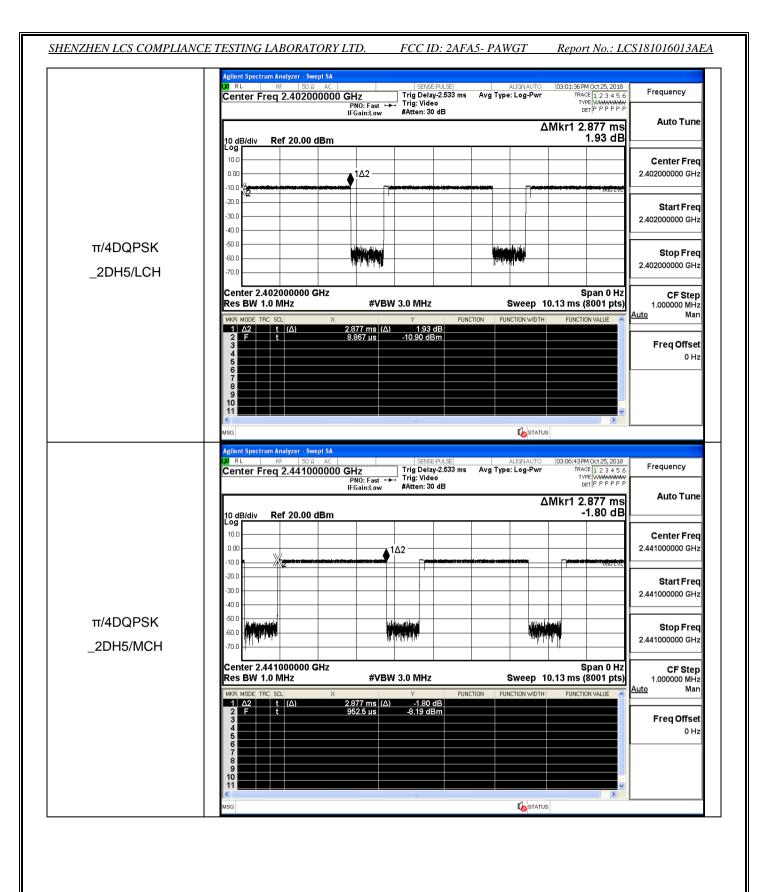
Mode	Channel.	Number of Hopping Channel [N]	Limit [N]	Verdict
GFSK	Нор	79	>=15	PASS
π/4DQPSK	Нор	79	>=15	PASS
8DPSK	Нор	79	>=15	PASS

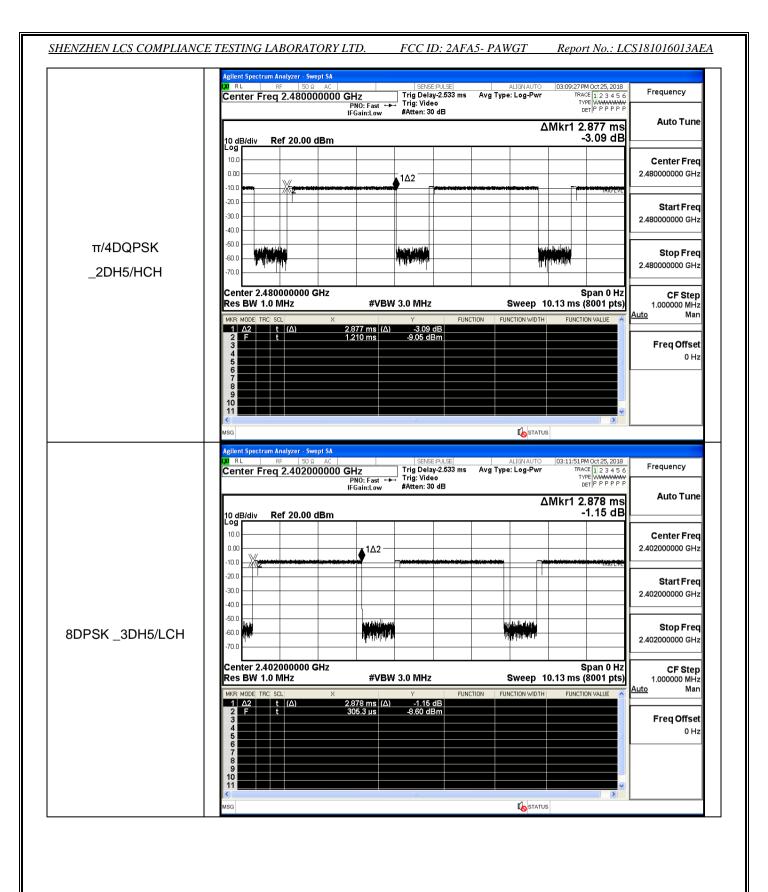
## A.5 Dwell Time

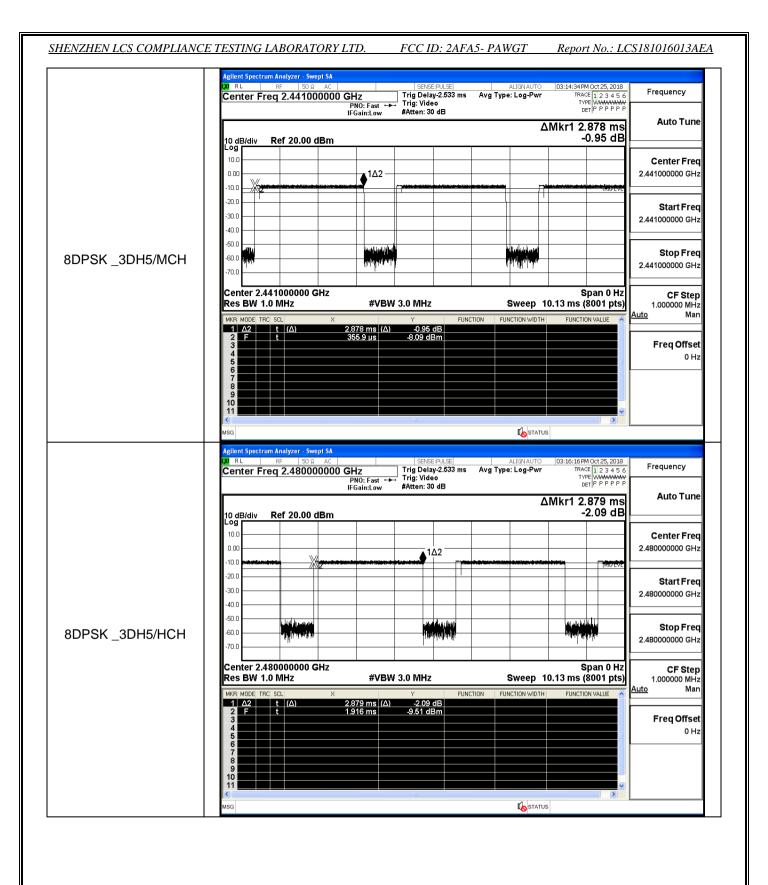
Mode	Packet	Channel	Burst Width [ms/hop/ch]	Total Hops[hop*ch]	Dwell Time[s]	Limit [s]	Verdict
	DH5	LCH	2.87	106.7	0.306	0.4	PASS
GFSK	DH5	MCH	2.87	106.7	0.306	0.4	PASS
	DH5	НСН	2.87	106.7	0.306	0.4	PASS
π/4DQPSK	2DH5	LCH	2.87	106.7	0.307	0.4	PASS
	2DH5	MCH	2.87	106.7	0.307	0.4	PASS
	2DH5	HCH	2.87	106.7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





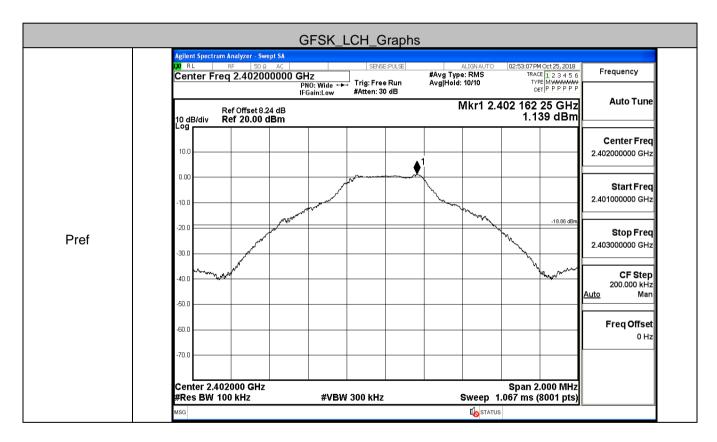






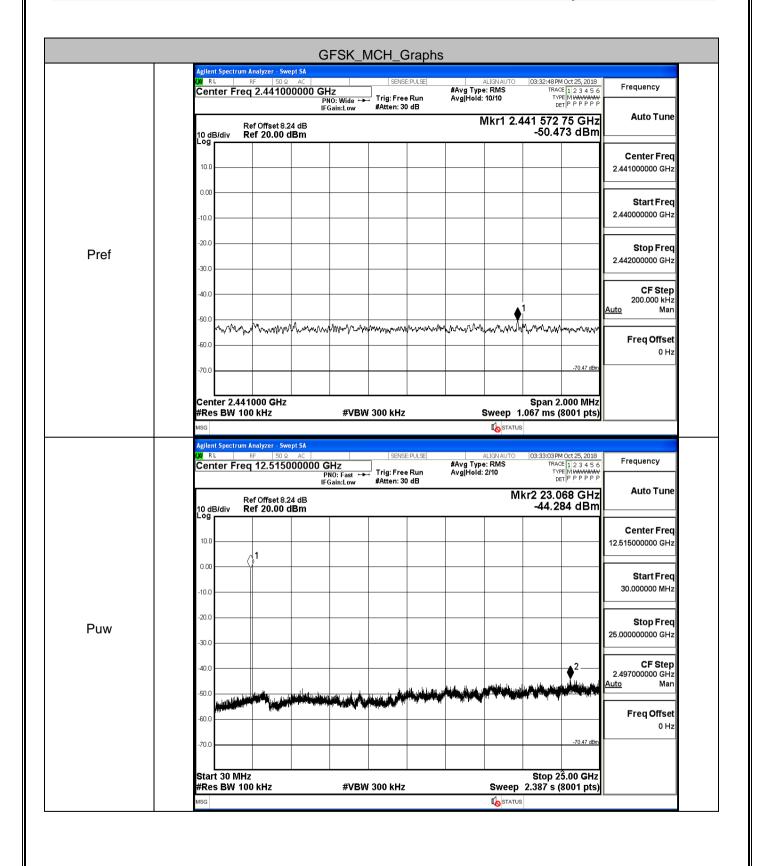
## A.6 RF Conducted Spurious Emissions

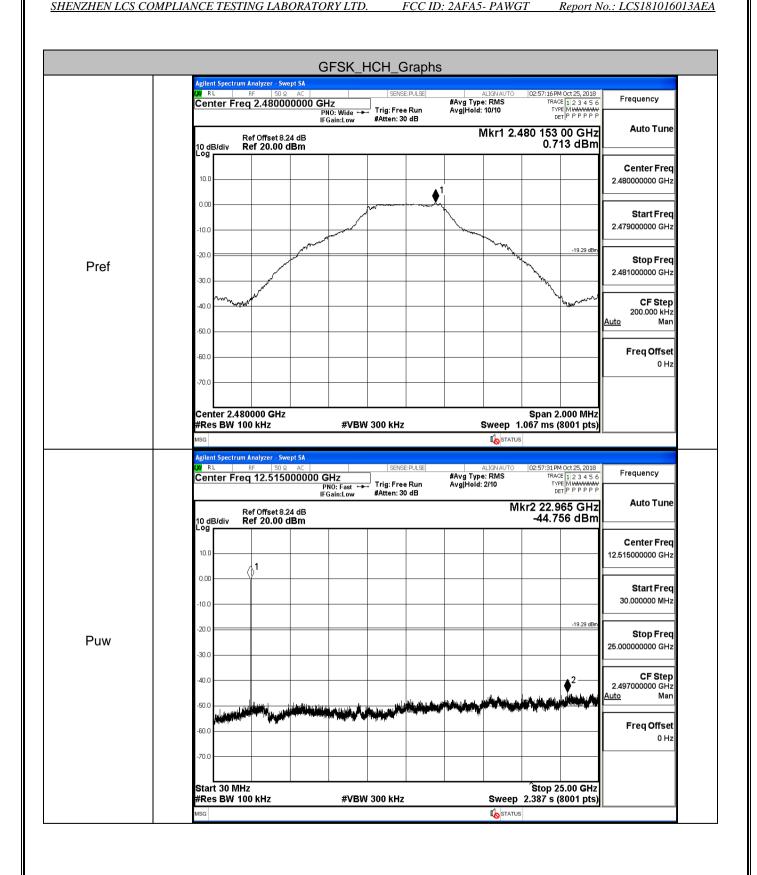
Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
	LCH	1.139	-44.125	-18.861	PASS
GFSK	MCH	-50.473	-44.284	-70.473	PASS
	HCH	0.713	-44.756	-19.287	PASS
	LCH	-0.338	-43.576	-20.338	PASS
π/4DQPSK	MCH	-0.141	-44.838	-20.141	PASS
	HCH	-0.131	-44.391	-20.131	PASS
	LCH	-0.359	-44.568	-20.359	PASS
8DPSK	MCH	0.09	-43.907	-19.910	PASS
	HCH	-0.866	-43.466	-20.866	PASS

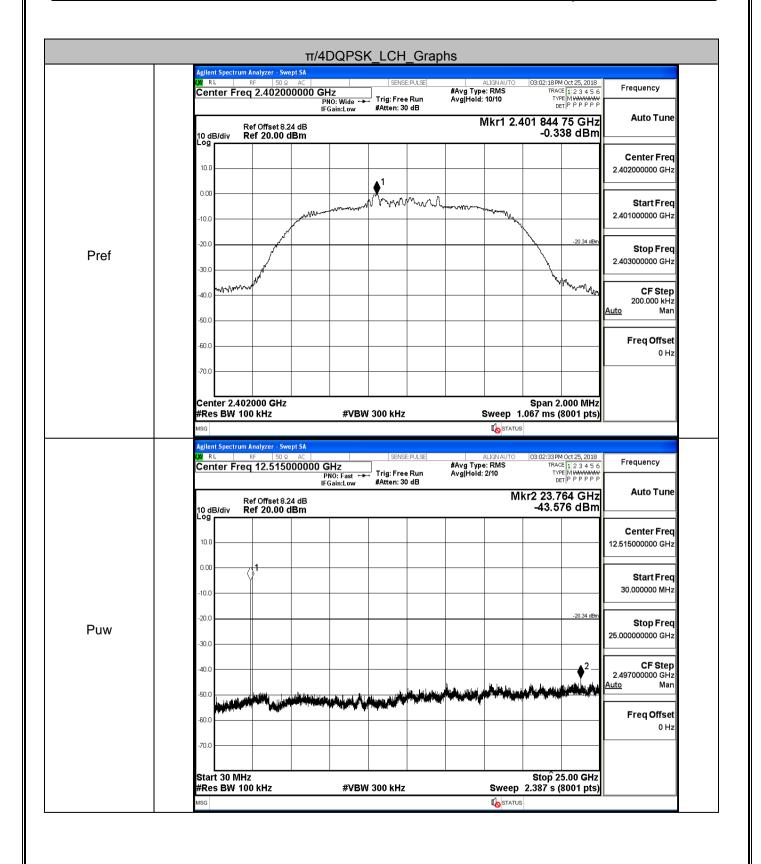


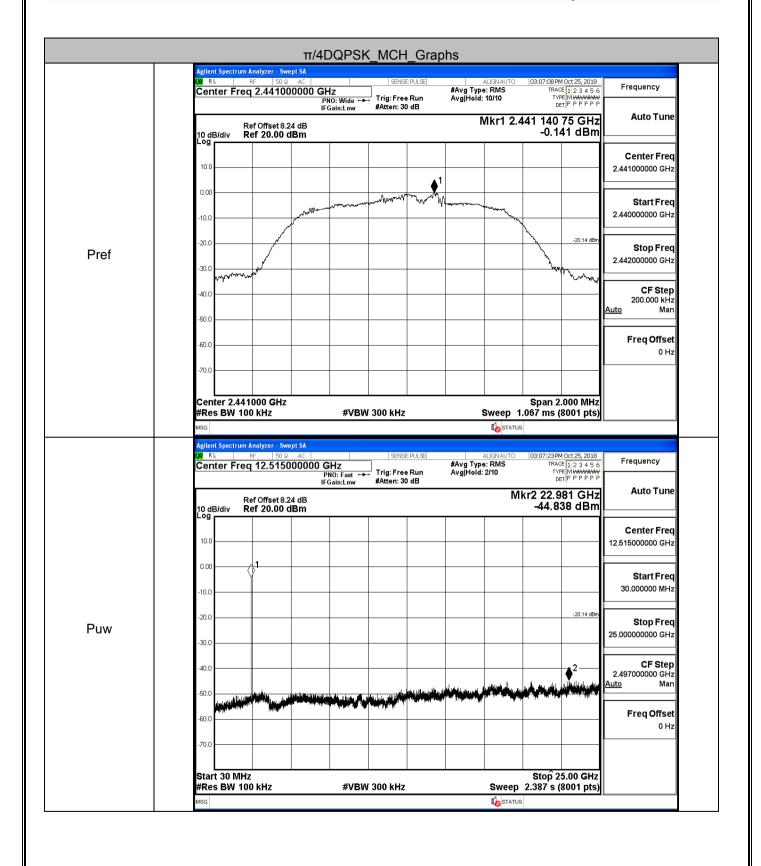
**#VBW** 300 kHz

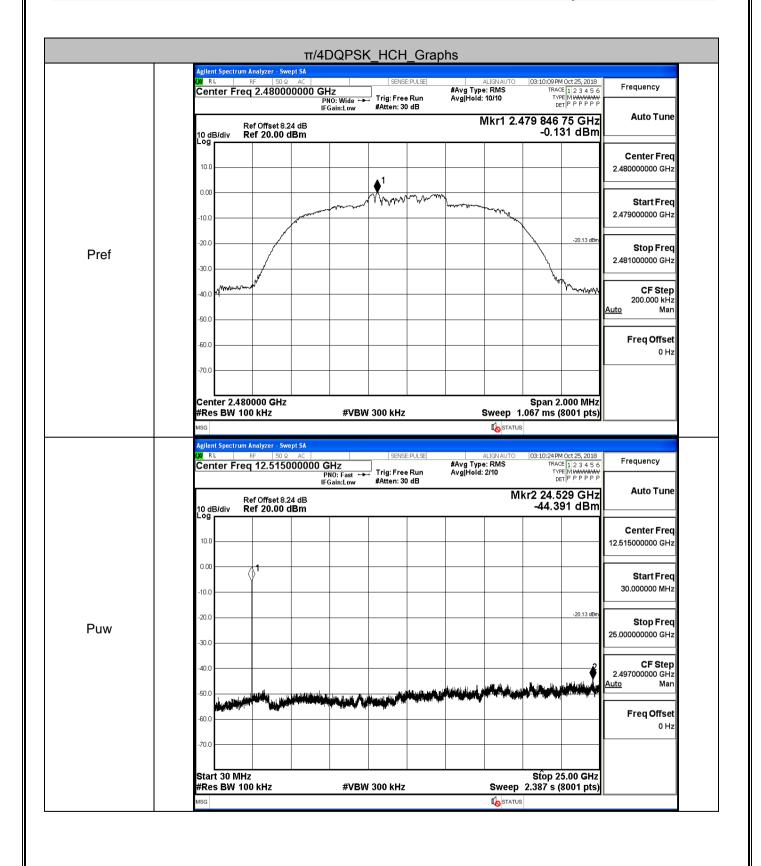
STATUS

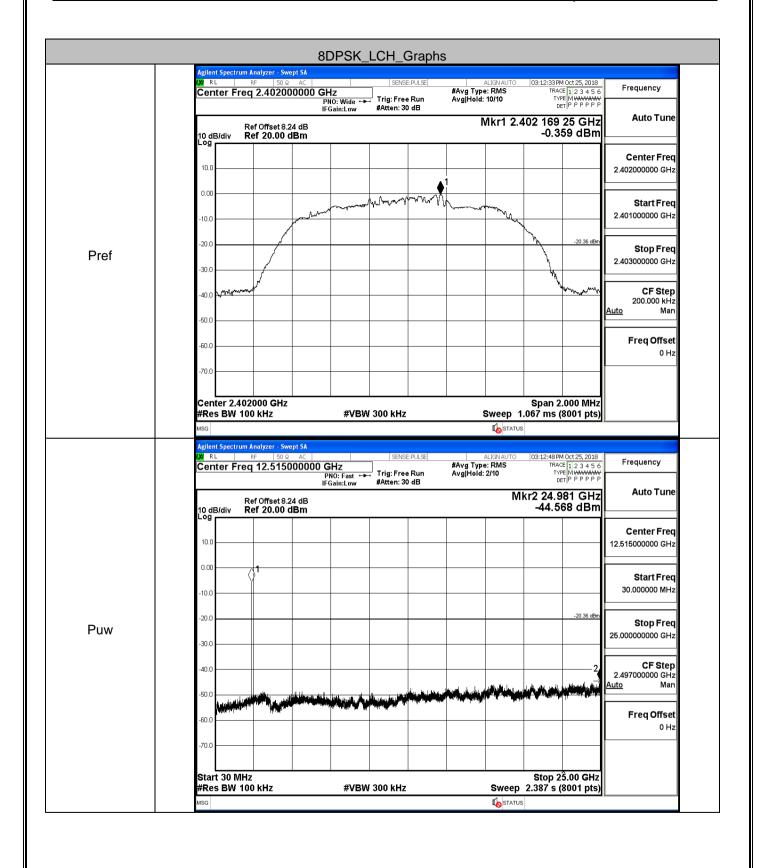


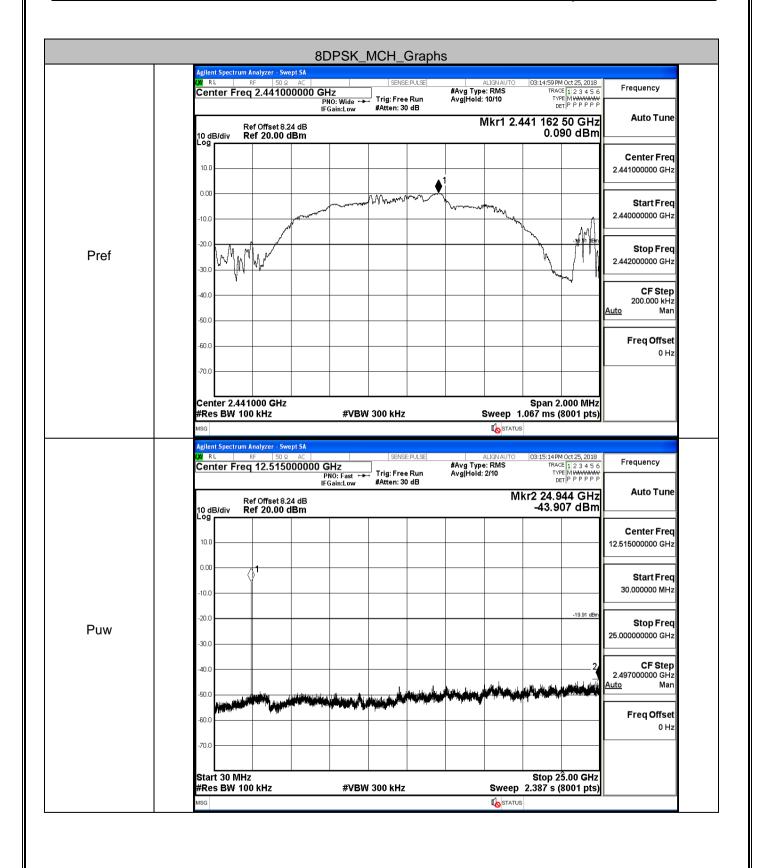


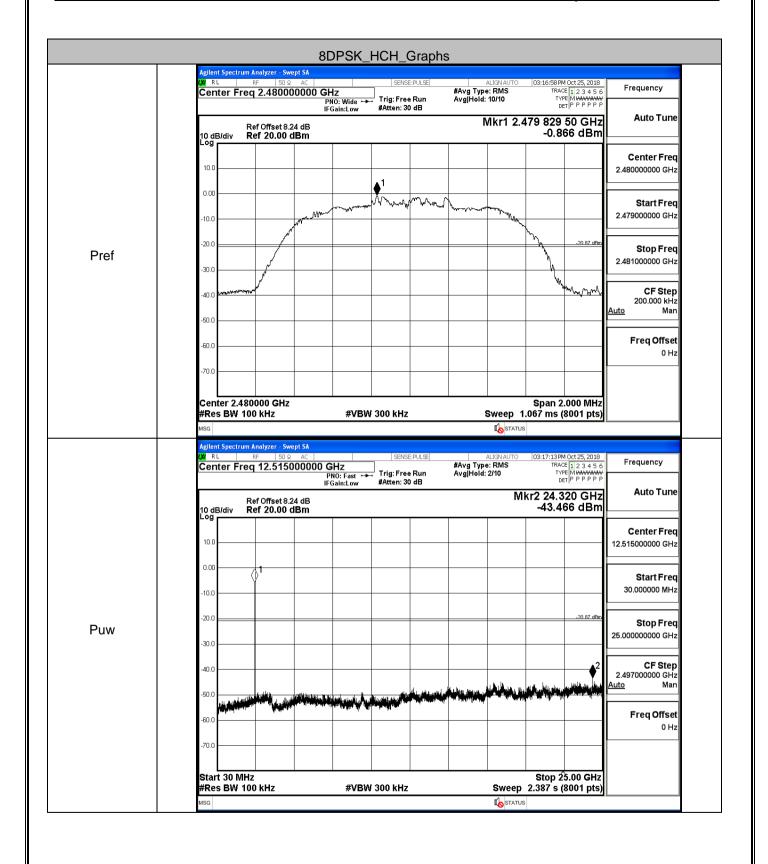






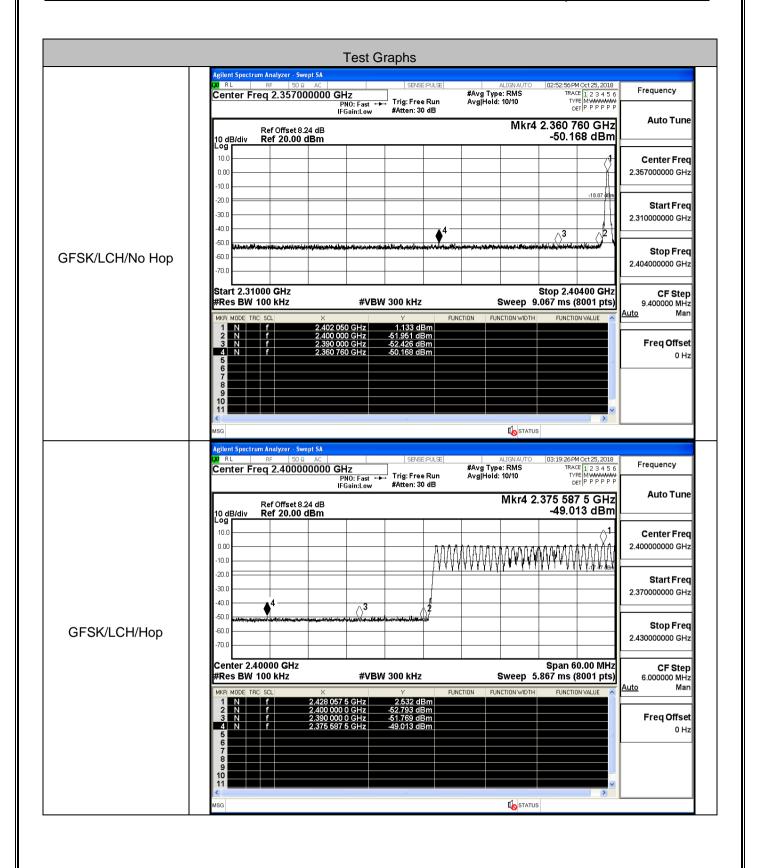


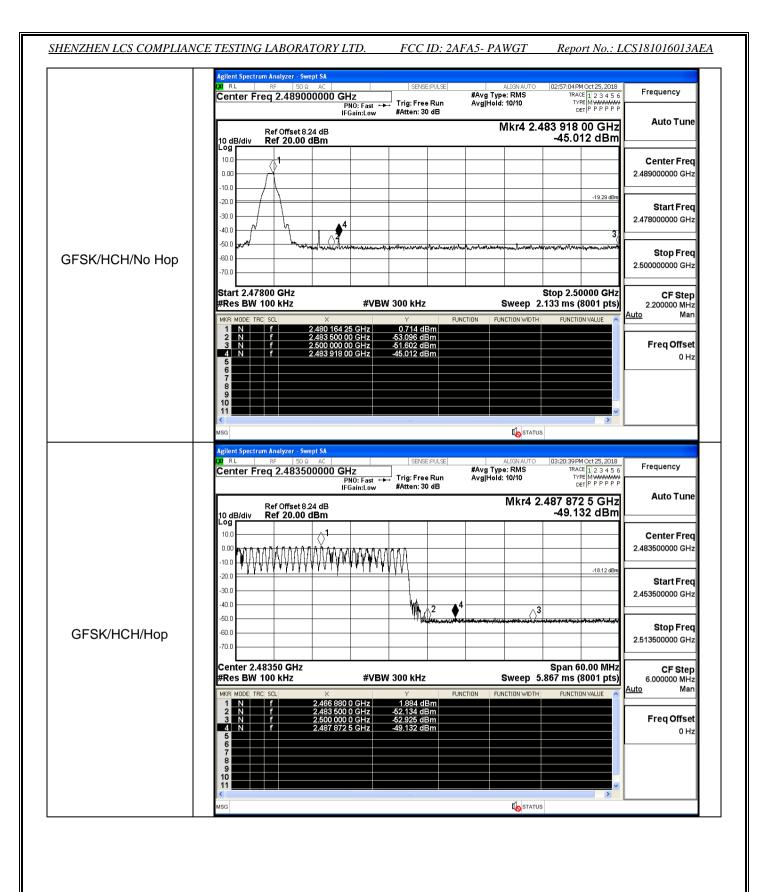


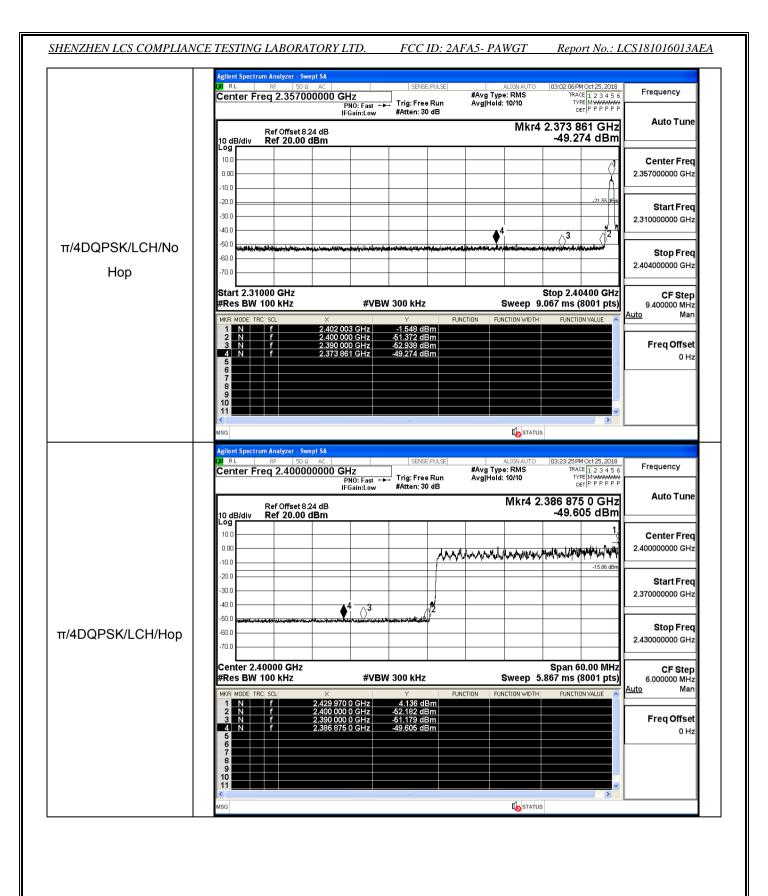


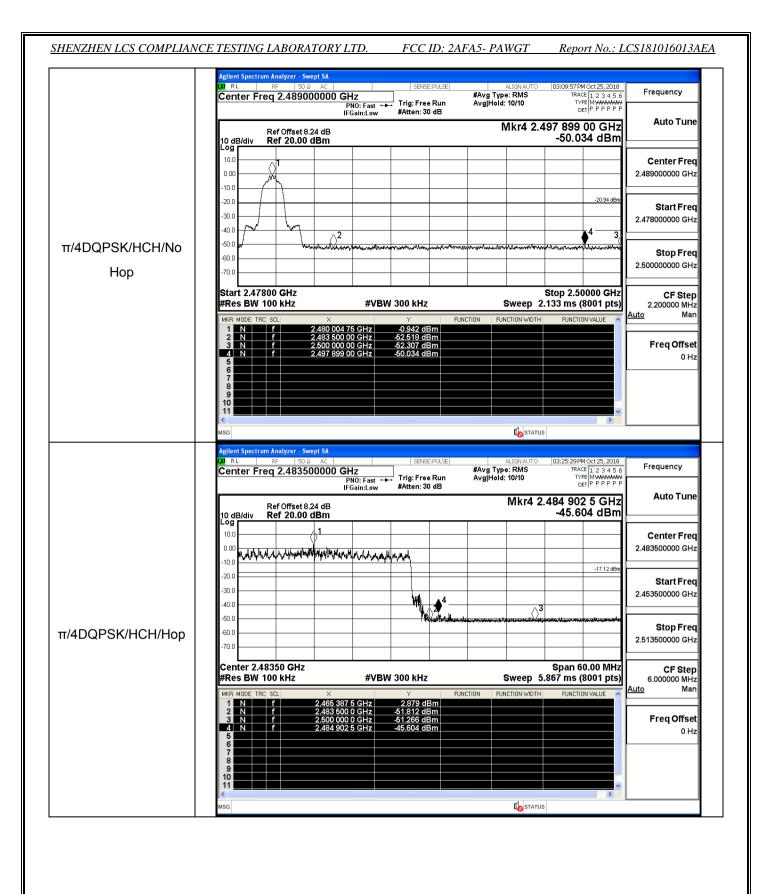
## A.7 Band-edge for RF Conducted Emissions

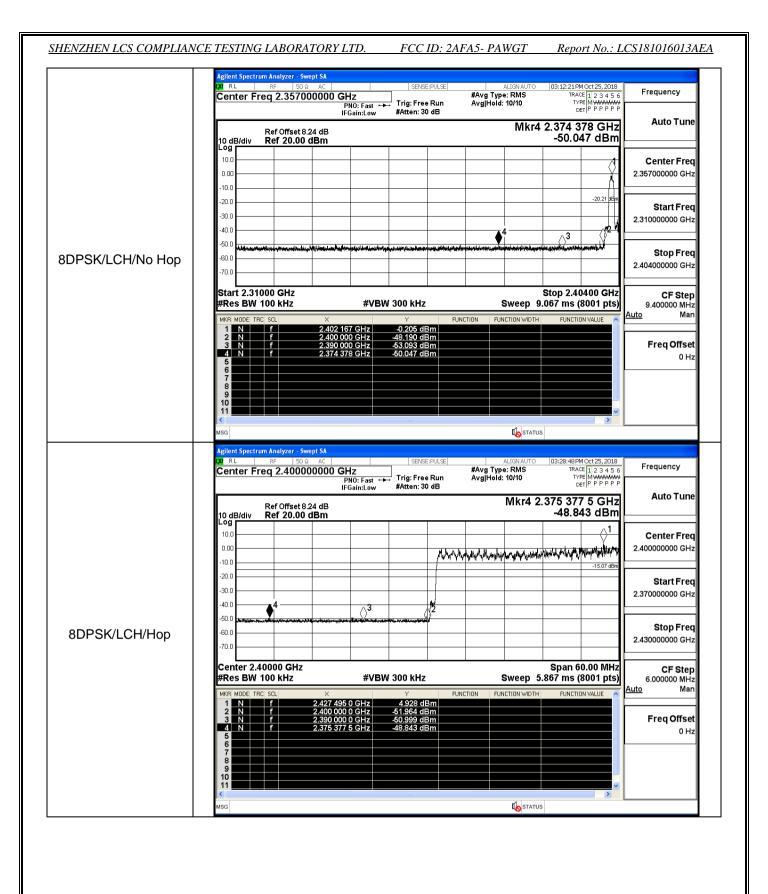
Mode	Channel	Carrier Frequency [MHz]	Carrier Power [dBm]	Frequency Hopping	Max Spurious Level [dBm]	Limit [dBm]	Verdict		
			1.133	Off	-50.168	-18.87	PASS		
2-21/	LCH	2402	2.532	On	-49.013	-17.47	PASS		
GFSK	нсн			0.714	Off	-45.012	-19.29	PASS	
		2480	1.884	On	-49.132	-18.12	PASS		
	LCH				-1.548	Off	-49.274	-21.55	PASS
		2402	4.136	On	-49.605	-15.86	PASS		
π/4DQPSK	нсн		-0.942	Off	-50.034	-20.94	PASS		
		2480	2.879	On	-45.604	-17.12	PASS		
			-0.205	Off	-50.047	-20.21	PASS		
	LCH	2402	4.928	On	-48.843	-15.07	PASS		
8DPSK			-1.064	Off	-47.977	-21.06	PASS		
	HCH	2480	5.150	On	-46.869	-14.85	PASS		

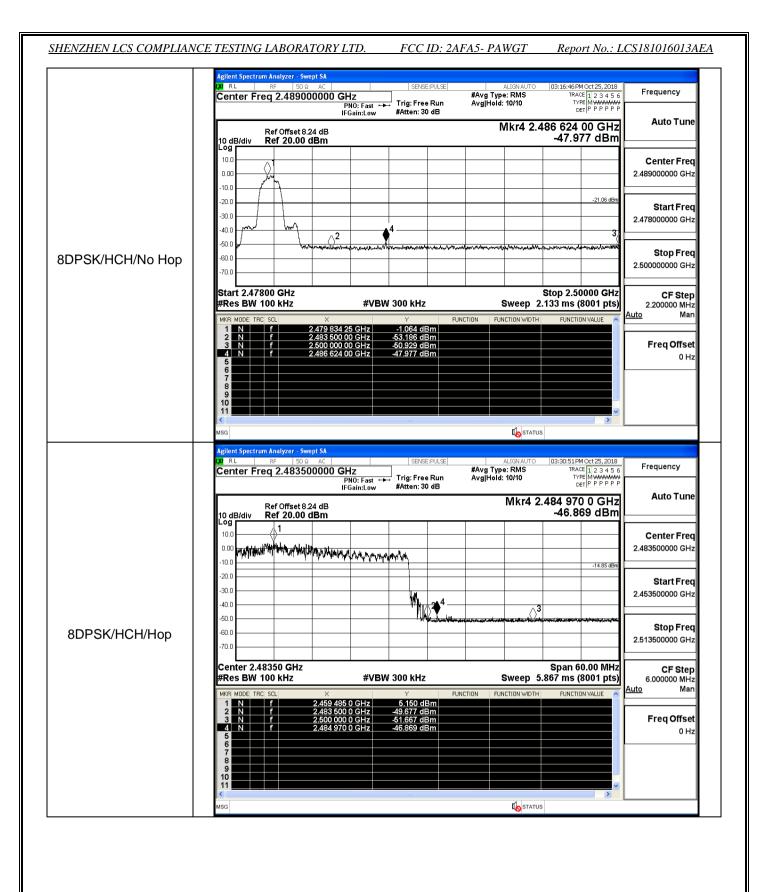






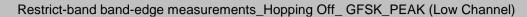


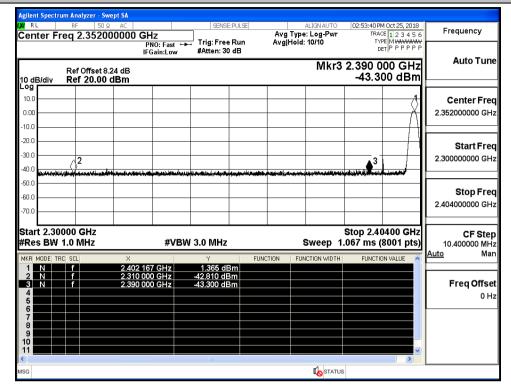




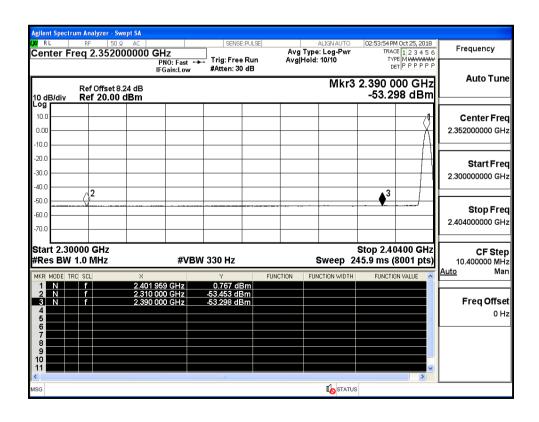
## A.8 Restrict-band band-edge measurements

Test Mode	Hopping	Freq.	Power [dBm]	Gain	Ground Factor	E [dBuV/m]	Detector	Limit [dBuV/m]	Verdict
	Off	2310.0	-42.81	2.0	0	52.45	PEAK	74	PASS
	Off	2310.0	-53.45	2.0	0	41.80	AV	54	PASS
	Off	2390.0	-43.30	2.0	0	51.96	PEAK	74	PASS
	Off	2390.0	-53.30	2.0	0	41.96	AV	54	PASS
GFSK	Off	2483.5	-43.47	2.0	0	51.78	PEAK	74	PASS
	Off	2483.5	-52.96	2.0	0	42.29	AV	54	PASS
	Off	2500.0	-43.02	2.0	0	52.24	PEAK	74	PASS
	Off	2500.0	-52.78	2.0	0	42.47	AV	54	PASS
	Off	2310.0	-42.84	2.0	0	52.42	PEAK	74	PASS
	Off	2310.0	-53.45	2.0	0	41.81	AV	54	PASS
	Off	2390.0	-41.84	2.0	0	53.42	PEAK	74	PASS
	Off	2390.0	-53.23	2.0	0	42.02	AV	54	PASS
π/4DQPSK	Off	2483.5	-41.32	2.0	0	53.94	PEAK	74	PASS
	Off	2483.5	-52.87	2.0	0	42.39	AV	54	PASS
	Off	2500.0	-43.41	2.0	0	51.85	PEAK	74	PASS
	Off	2500.0	-52.87	2.0	0	42.39	AV	54	PASS
	Off	2310.0	-41.88	2.0	0	53.38	PEAK	74	PASS
	Off	2310.0	-53.47	2.0	0	41.79	AV	54	PASS
	Off	2390.0	-42.84	2.0	0	52.41	PEAK	74	PASS
	Off	2390.0	-53.26	2.0	0	41.99	AV	54	PASS
8DPSK	Off	2483.5	-41.88	2.0	0	53.38	PEAK	74	PASS
	Off	2483.5	-52.92	2.0	0	42.33	AV	54	PASS
	Off	2500.0	-42.91	2.0	0	52.35	PEAK	74	PASS
	Off	2500.0	-52.87	2.0	0	42.39	AV	54	PASS

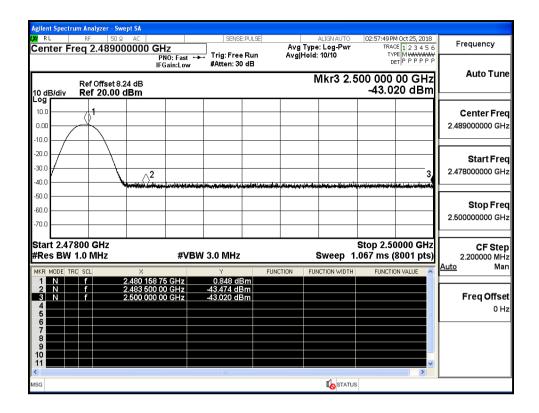




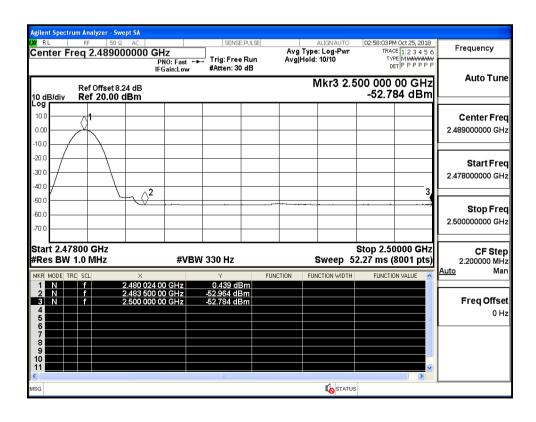
#### Restrict-band band-edge measurements\_Hopping Off\_ GFSK\_Average (Low Channel)



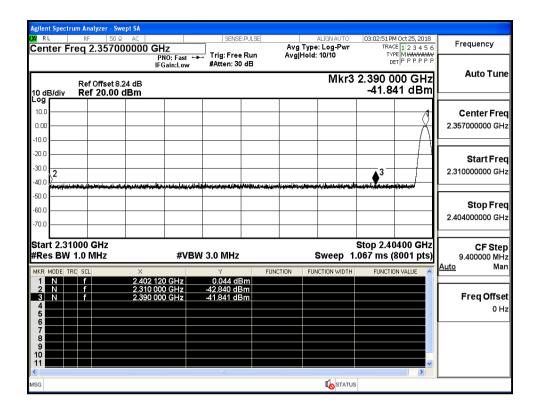
#### Restrict-band band-edge measurements\_Hopping Off\_ GFSK\_PEAK (High Channel)



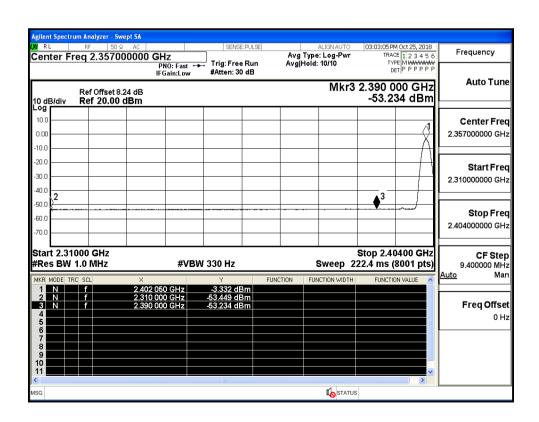
#### Restrict-band band-edge measurements\_Hopping Off\_ GFSK\_Average (High Channel)



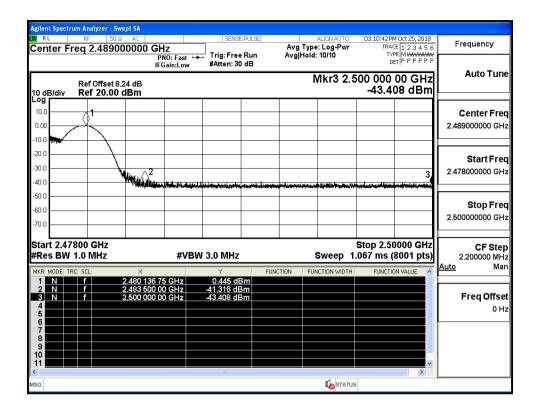
### Restrict-band band-edge measurements\_Hopping Off\_π/4-DQPSK\_PEAK (Low Channel)



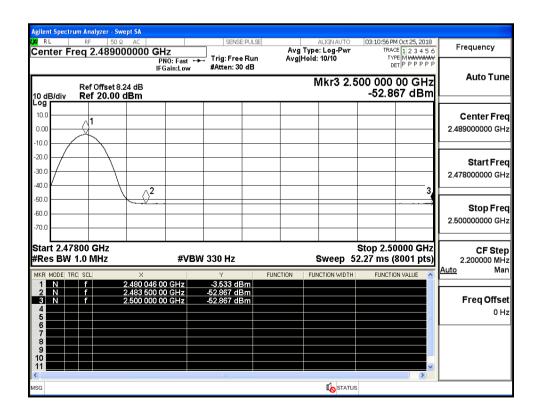
### Restrict-band band-edge measurements\_Hopping Off\_π/4-DQPSK\_Average (Low Channel)



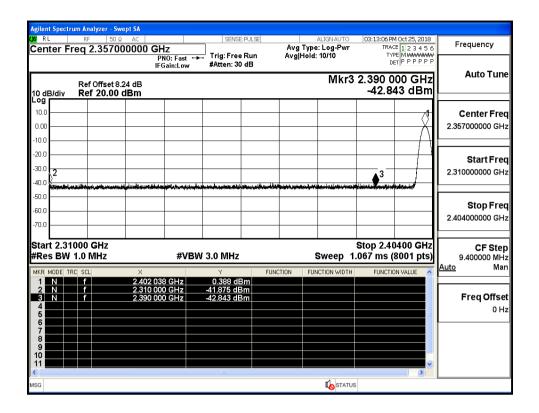
#### Restrict-band band-edge measurements\_Hopping Off\_π/4-DQPSK\_PEAK (High Channel)



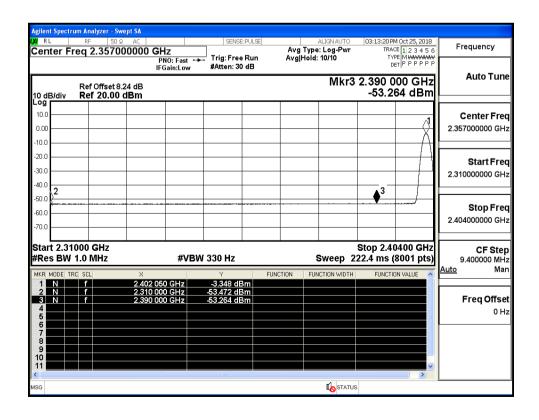
#### Restrict-band band-edge measurements\_Hopping Off\_π/4-DQPSK\_Average (High Channel)



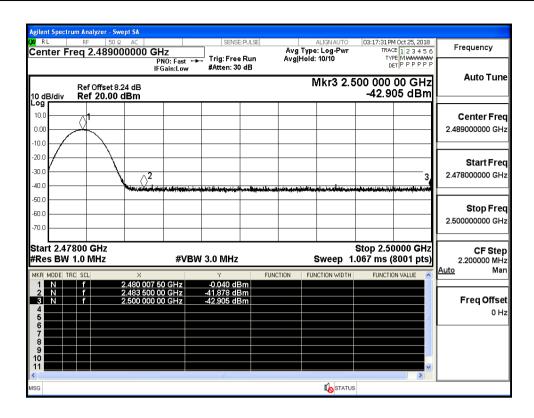
### Restrict-band band-edge measurements\_Hopping Off\_8DPSK\_PEAK (Low Channel)



#### 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)

