Appendix A

RF Test Data for BT V5.0(BDR/EDR) (Conducted Measurement)

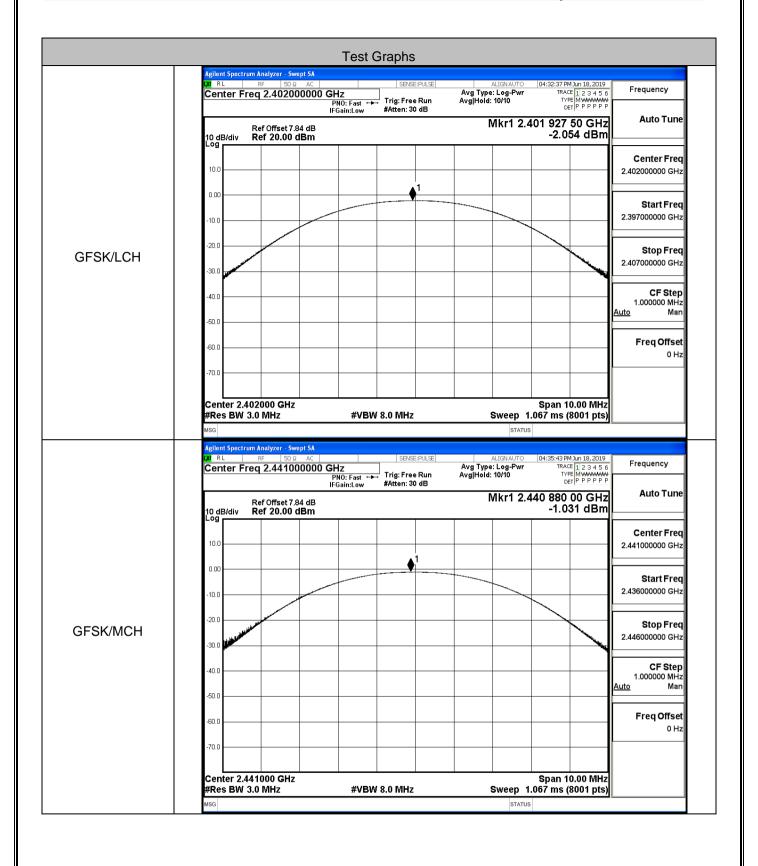
Product Name: TWS earbuds Trade Mark: N/A Test Model: XO-9799

Environmental Conditions

Temperature:	24.6 ° C
Relative Humidity:	53.7%
ATM Pressure:	100.0 kPa
Test Engineer:	WANGCHUANG
Supervised by:	Tom.Liu

A.1 Maxmum Conducted Peak Output Power

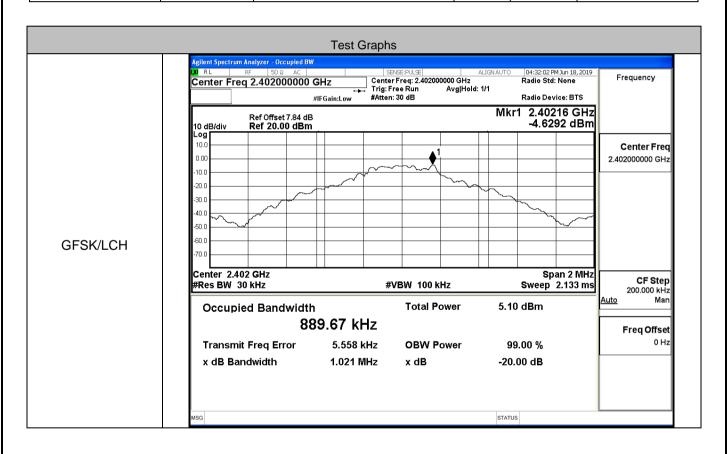
Mode	Channel.	Maximum Peak Output Power [dBm]	Limit [dBm]	Verdict
	LCH	-2.054	30	PASS
GFSK	MCH	-1.031	30	PASS
	НСН	-2.014	30	PASS
	LCH	-2.670	21	PASS
π/4DQPSK	MCH	-1.799	21	PASS
	НСН	-2.724	21	PASS
	LCH	-2.667	21	PASS
8DPSK	PSK MCH -1.506		21	PASS
	HCH	-2.336	21	PASS



STATUS

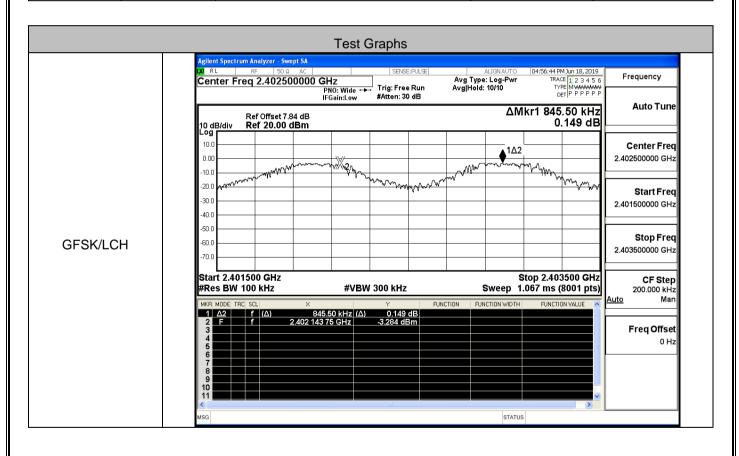
A.2 20dB Bandwidth

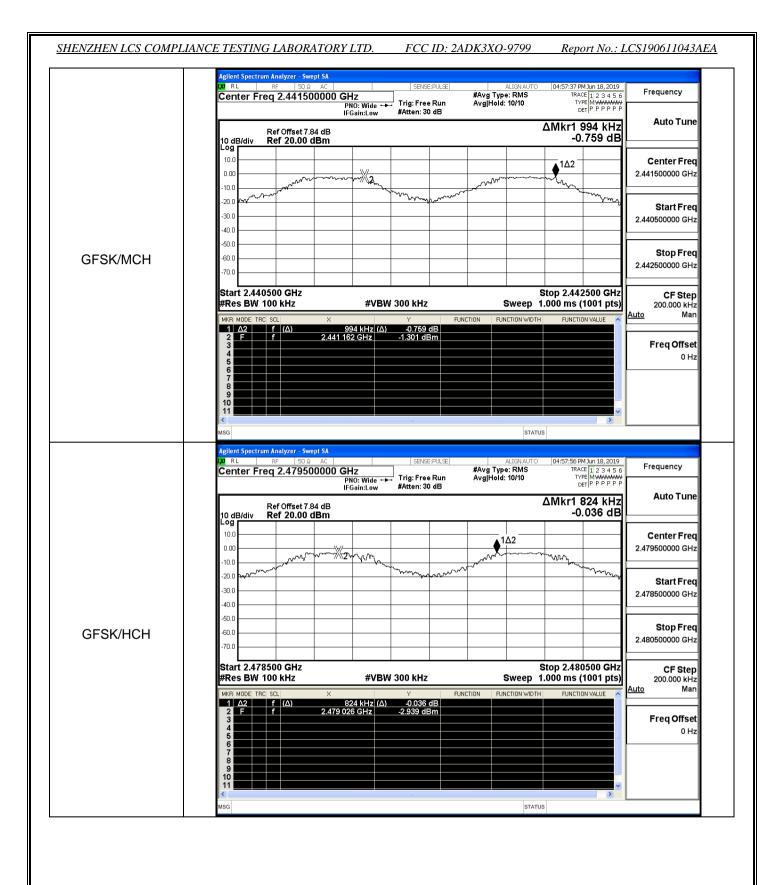
Mode	Channel.	20dB Bandwidth [MHz]	Limit [MHz]	Verdict
	LCH	1.021	Not Specified	PASS
GFSK	MCH	1.032	Not Specified	PASS
	НСН	0.9734	Not Specified	PASS
	LCH	1.294	Not Specified	PASS
π/4DQPSK	MCH	1.292	Not Specified	PASS
	HCH	1.305	Not Specified	PASS
	LCH	1.297	Not Specified	PASS
8DPSK	MCH	1.305	Not Specified	PASS
	HCH	1.298	Not Specified	PASS

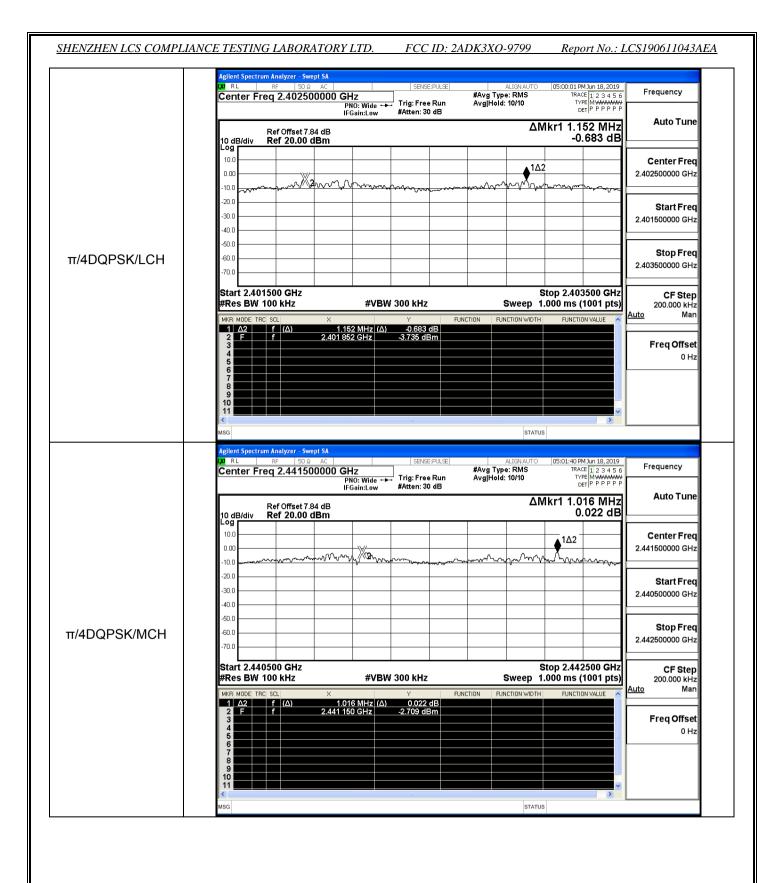


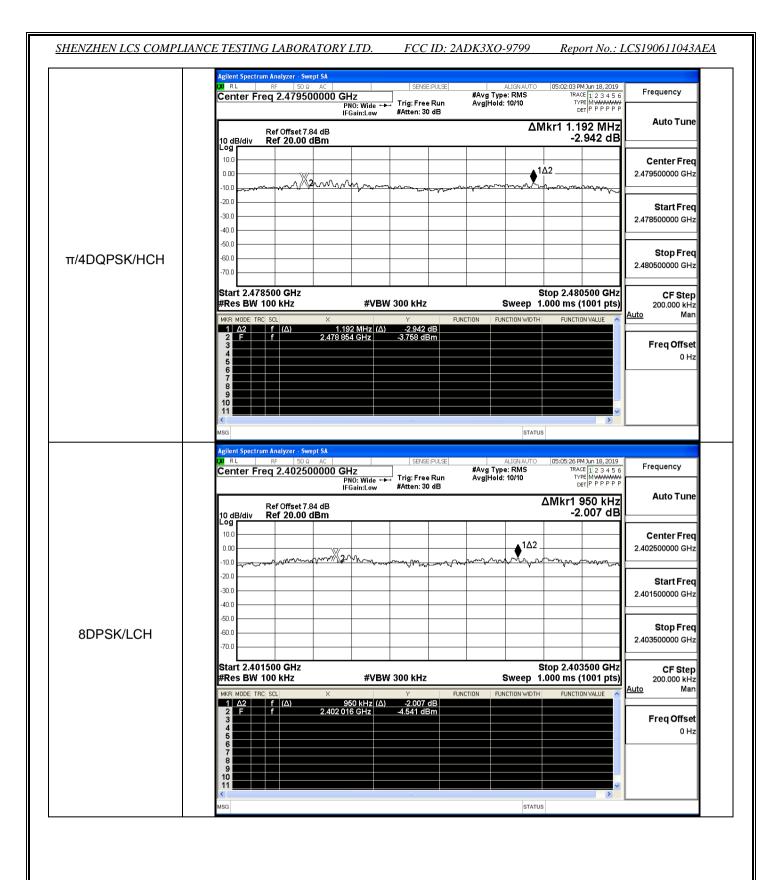
A.3 Carrier Frequency Separation

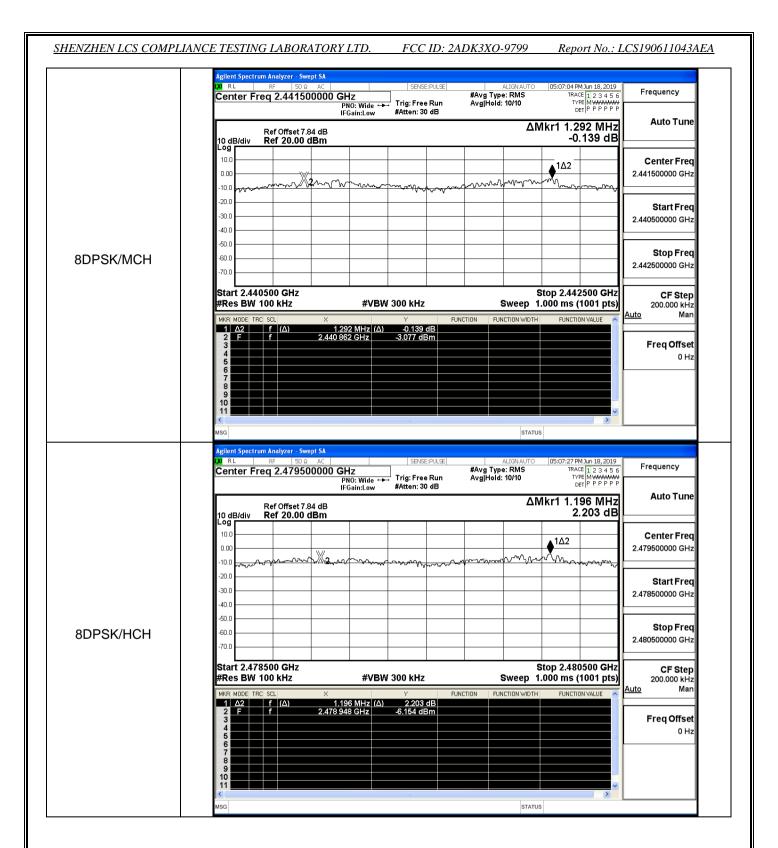
Mode	Channel.	Carrier Frequency Separation [MHz]	Limit [MHz]	Verdict
	LCH	0.845	0.688	PASS
GFSK	MCH	0.994	0.688	PASS
	HCH	0.824	0.688	PASS
	LCH	1.152	0.870	PASS
π/4DQPSK	MCH	1.016	0.870	PASS
	HCH	1.192	0.870	PASS
	LCH	0.950	0.870	PASS
8DPSK	MCH	1.292	0.870	PASS
	HCH	1.196	0.870	PASS









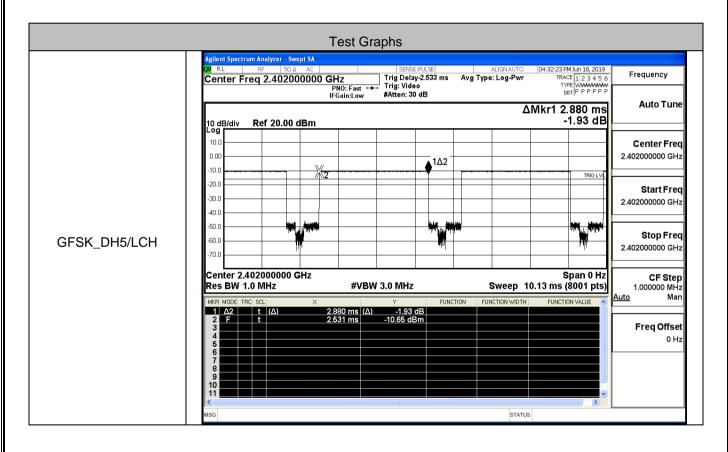


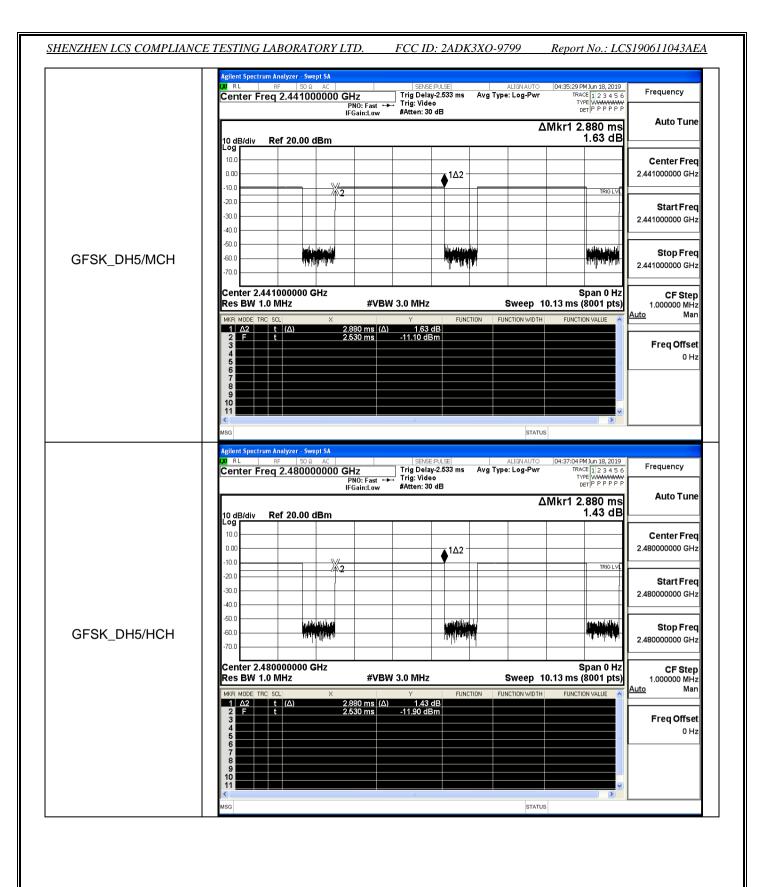
A.4 Hopping Channel Number

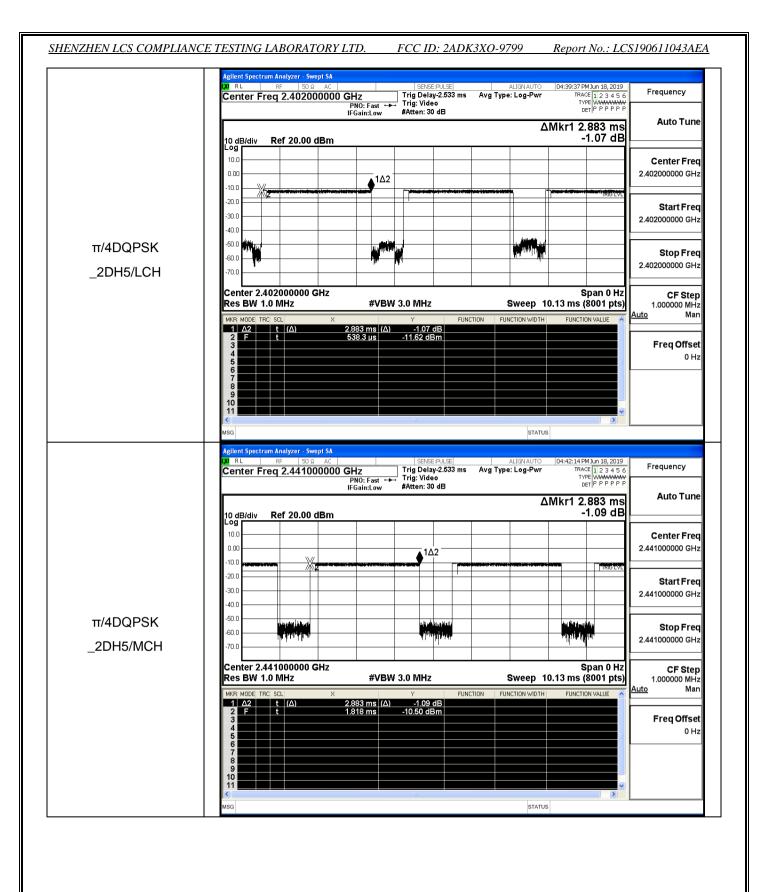
Mode	Channel.	Number of Hopping Channel [N]	Limit [N]	Verdict
GFSK	Нор	79	>=15	PASS
π/4DQPSK	Нор	79	>=15	PASS
8DPSK	Нор	79	>=15	PASS

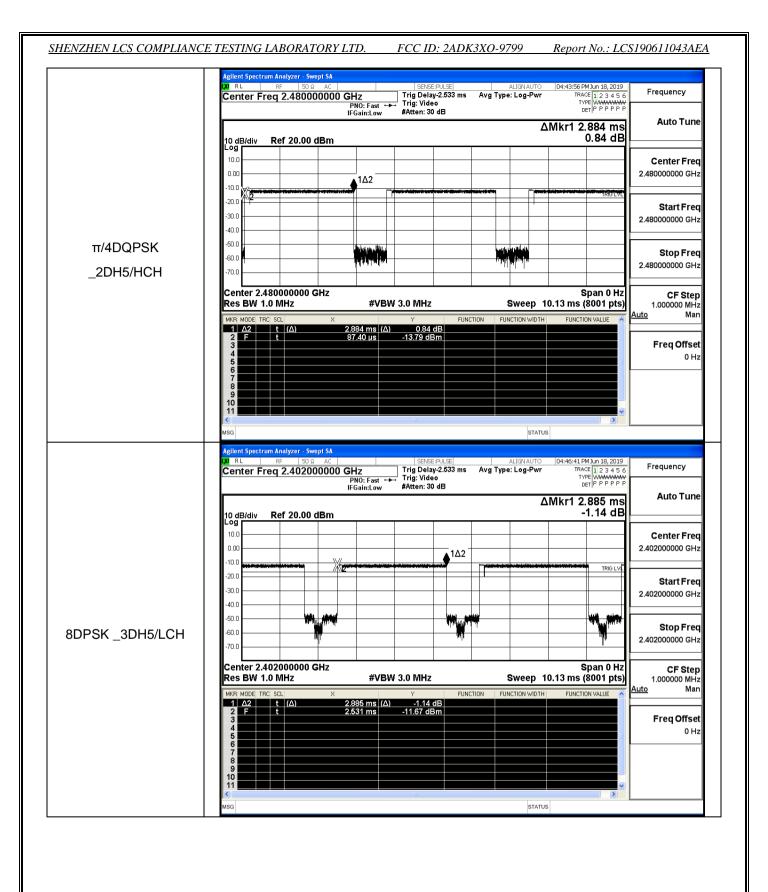
A.5 Dwell Time

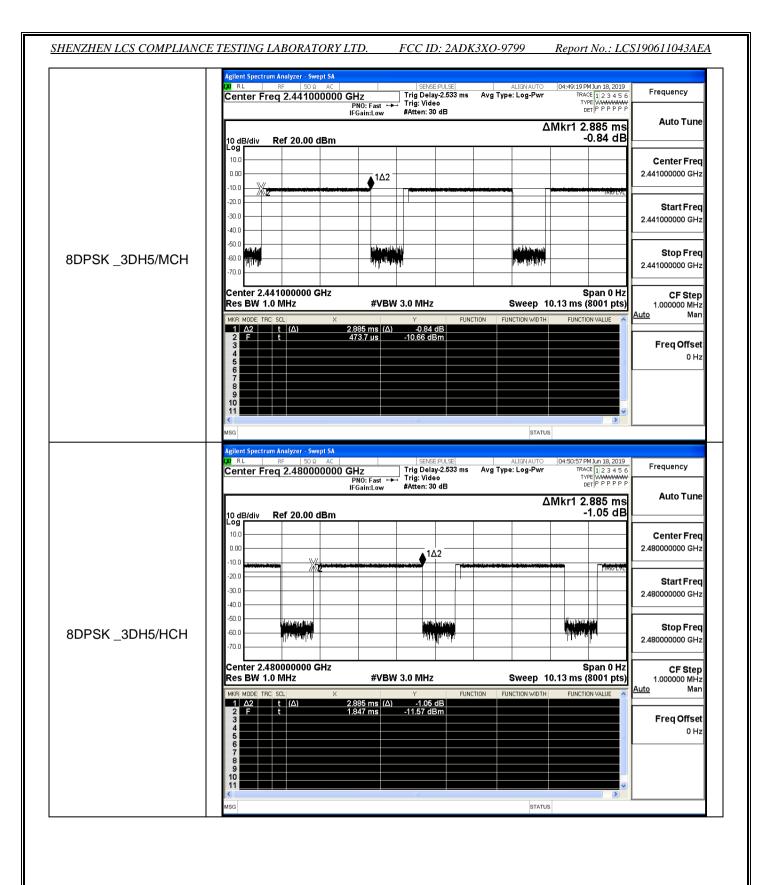
Mode	Packet	Channel	Burst Width [ms/hop/ch]	Total Hops[hop*ch]	Dwell Time[s]	Limit [s]	Verdict
	DH5	LCH	2.88	106.7	0.307	0.4	PASS
GFSK	DH5	MCH	2.88	106.7	0.307	0.4	PASS
	DH5	5 HCH 2.88 106.7 0.307		0.307	0.4	PASS	
	2DH5	LCH	2.88	106.7	0.307	0.4	PASS
π/4DQPSK	2DH5	MCH	2.88	106.7	0.307	0.4	PASS
	2DH5	HCH	2.88	106.7	0.307	0.4	PASS
	3DH5	LCH	2.88	106.7	0.308	0.4	PASS
8DPSK	3DH5	MCH	2.88	106.7	0.308	0.4	PASS
	3DH5	HCH	2.88	106.7	0.308	0.4	PASS





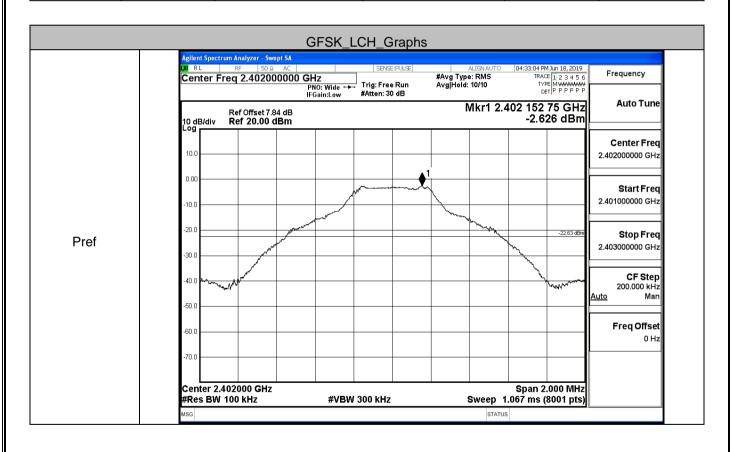






A.6 RF Conducted Spurious Emissions

Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
	LCH	-2.626	-45.384	-22.626	PASS
GFSK	MCH	-1.335	-44.183	-21.335	PASS
	HCH	-2.58	-45.280	-22.580	PASS
	LCH	-3.613	-45.380	-23.613	PASS
π/4DQPSK	MCH	-2.549	-43.777	-22.549	PASS
	НСН	-3.62	-45.251	-23.620	PASS
	LCH	-3.608	-44.417	-23.608	PASS
8DPSK	MCH	-2.561	-44.776	-22.561	PASS
	НСН	-3.799	-44.901	-23.799	PASS



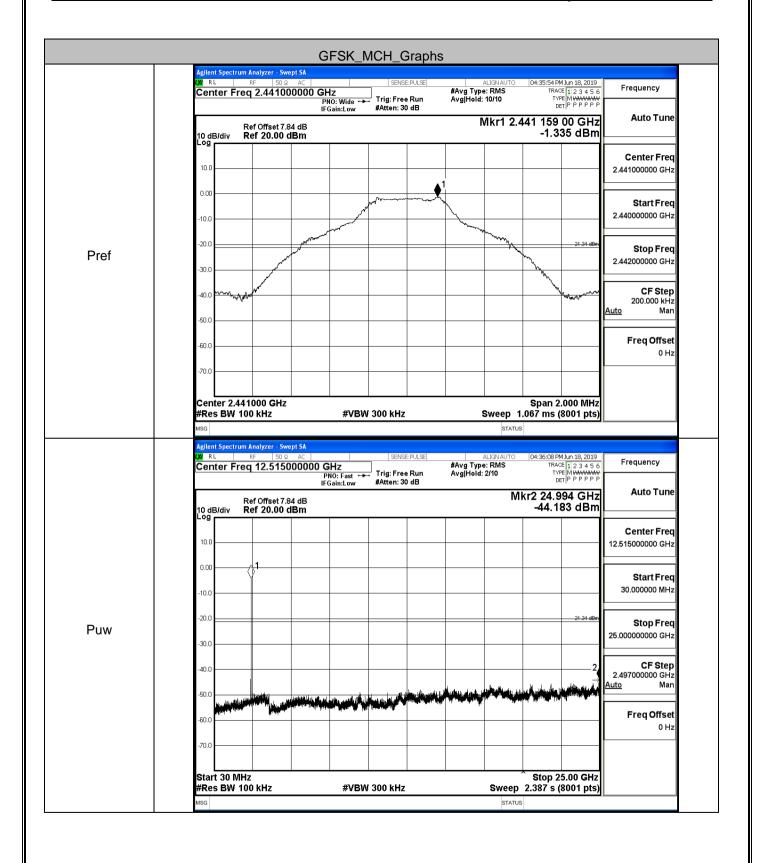
#VBW 300 kHz

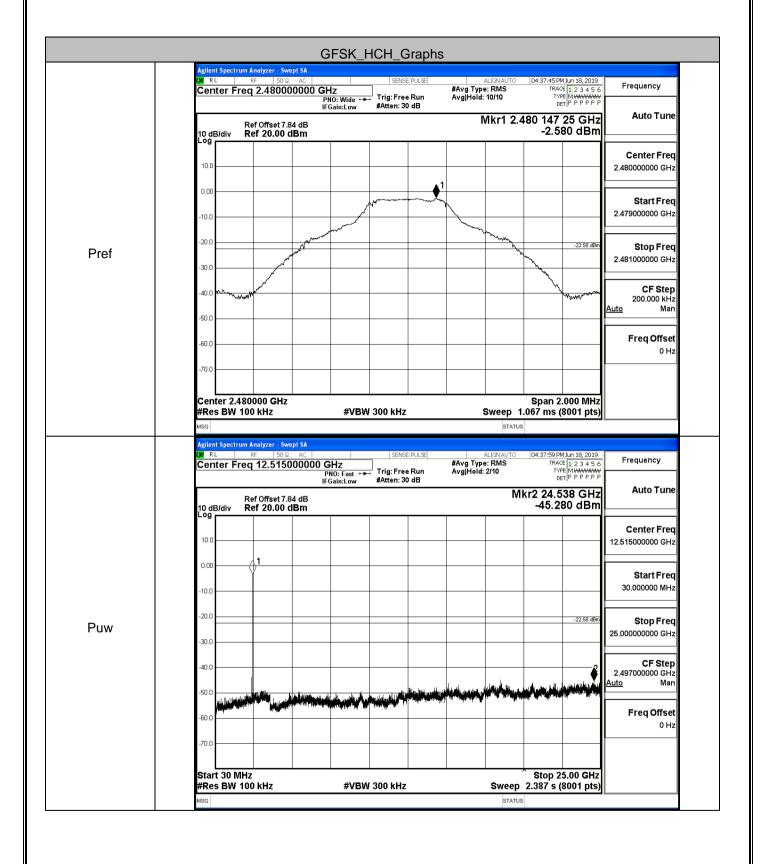
Stop 25.00 GHz Sweep 2.387 s (8001 pts)

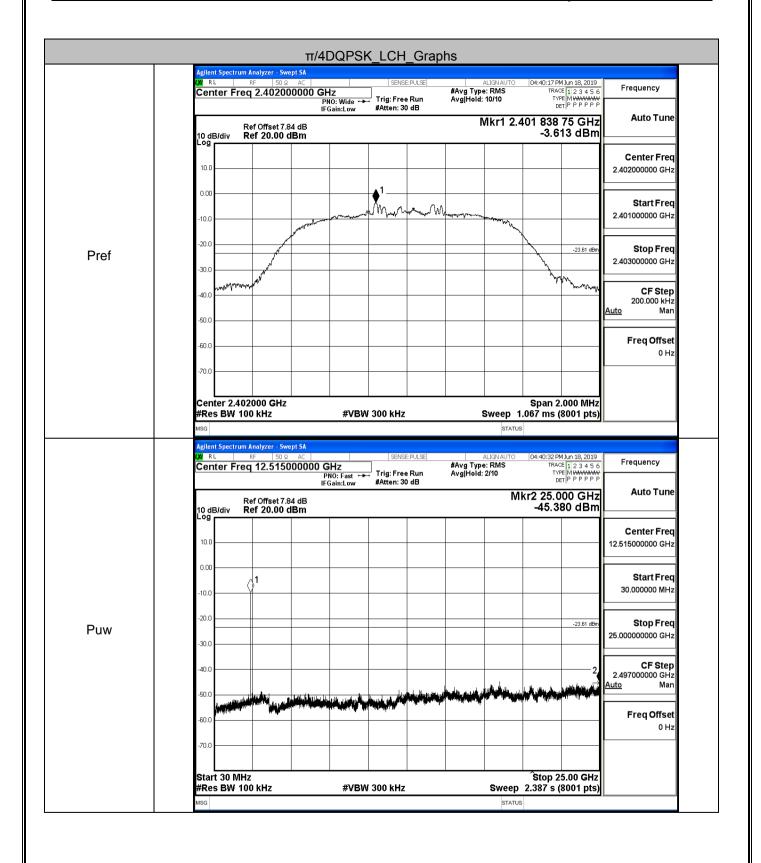
STATUS

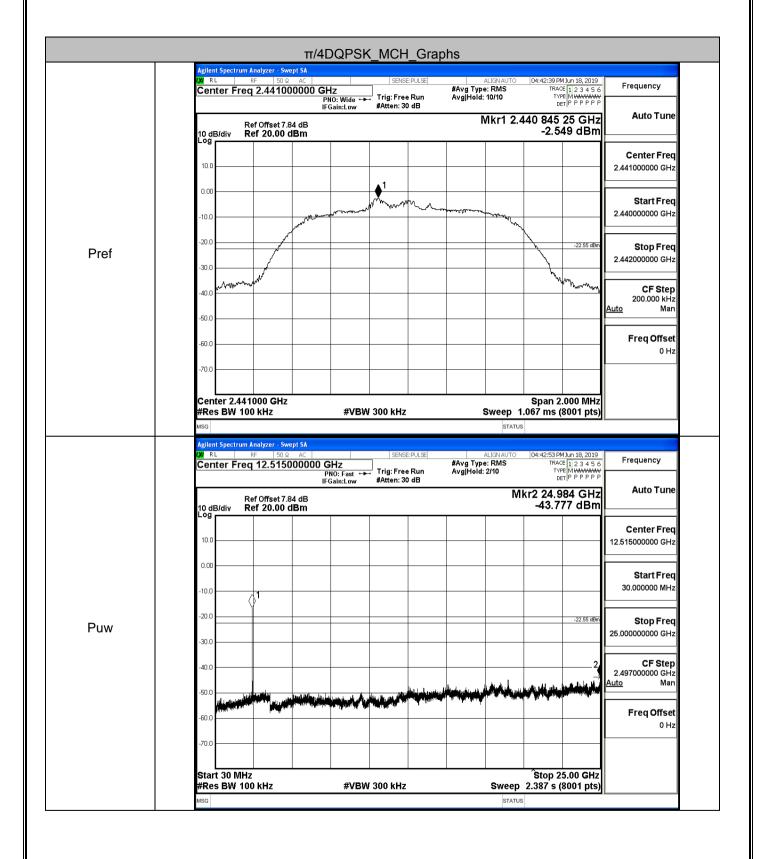
-70.0

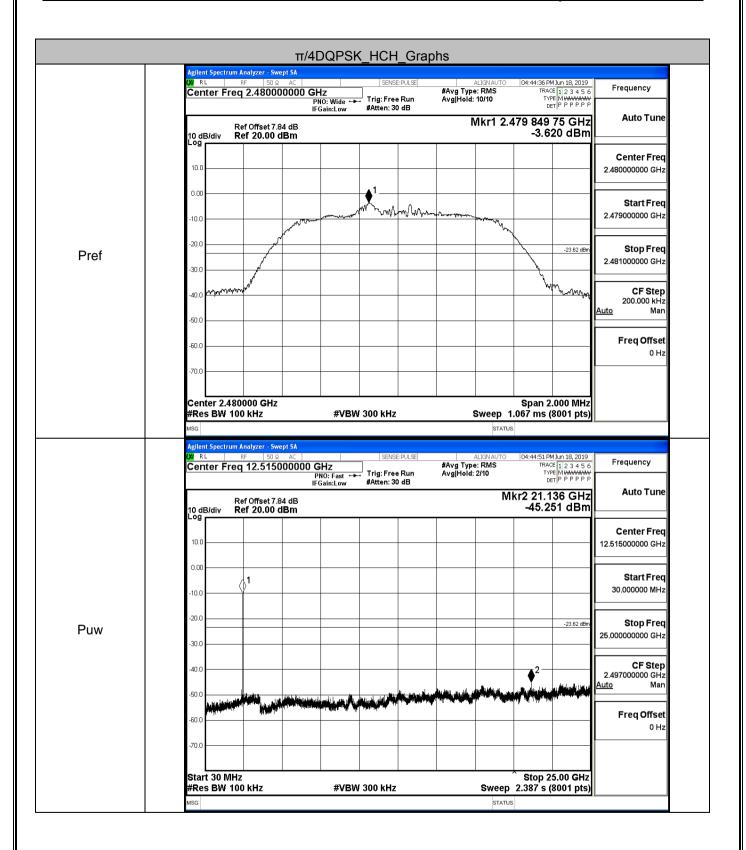
Start 30 MHz #Res BW 100 kHz

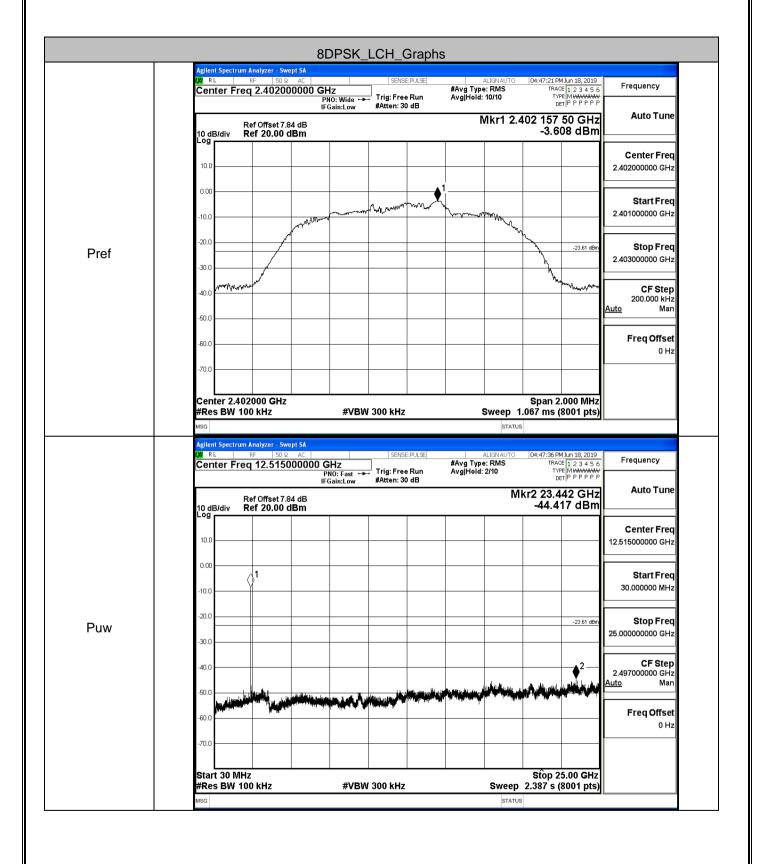


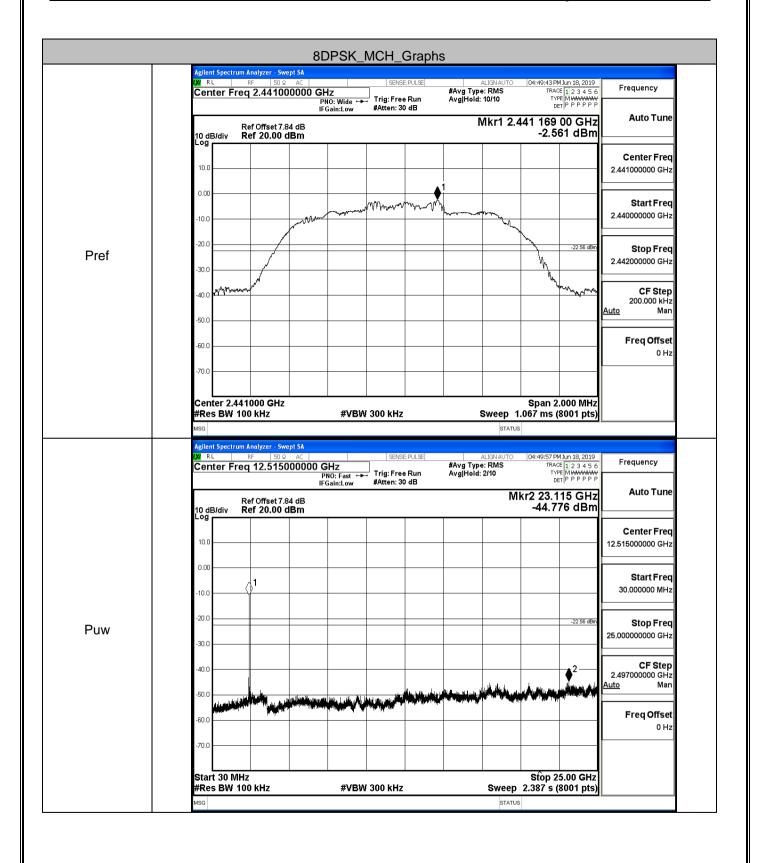


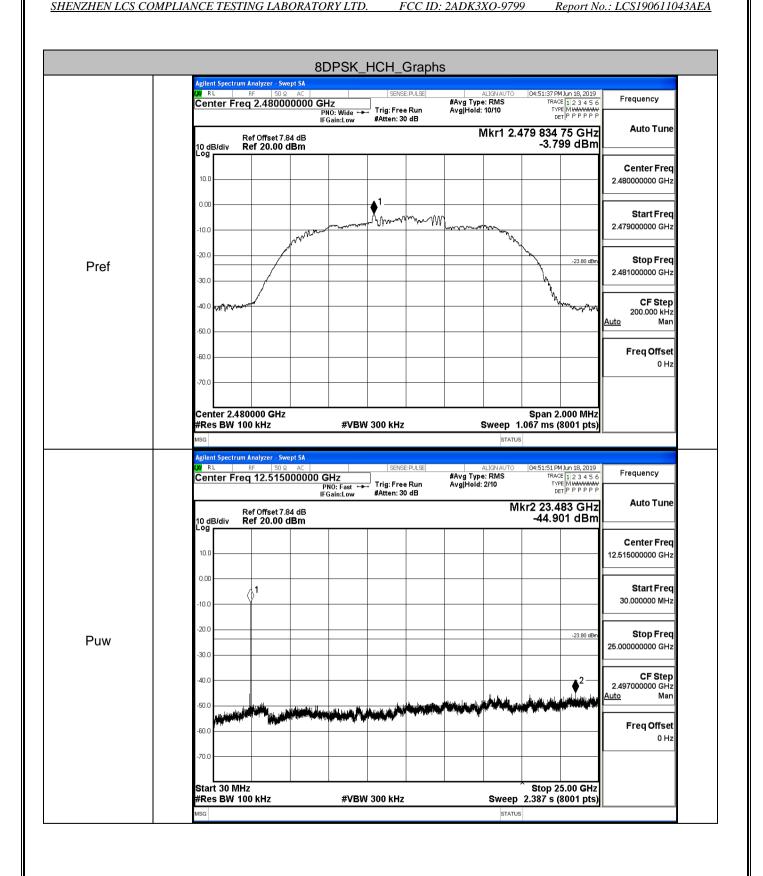






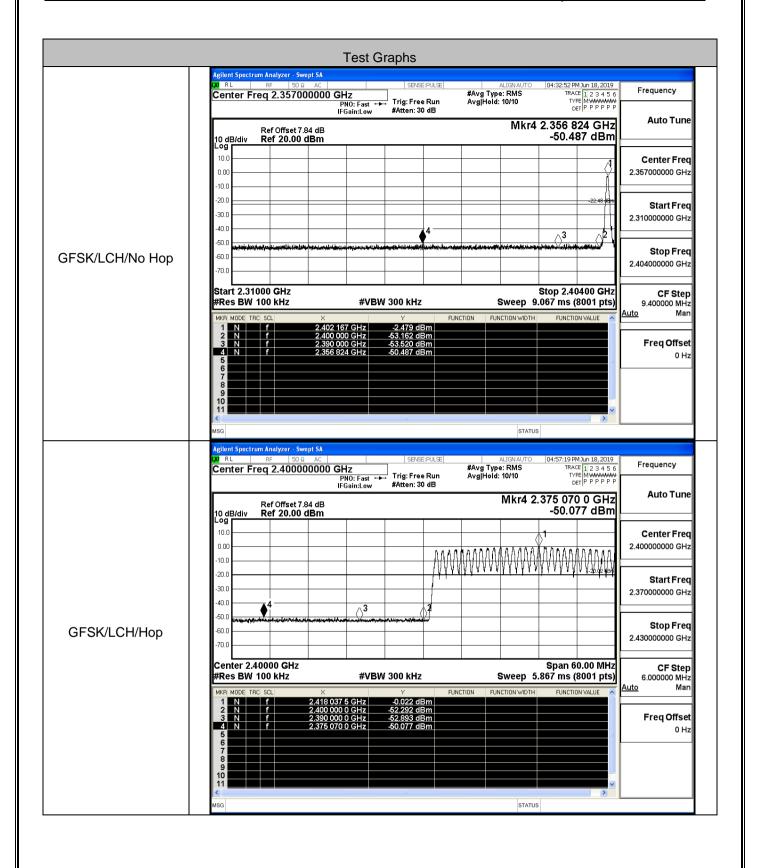


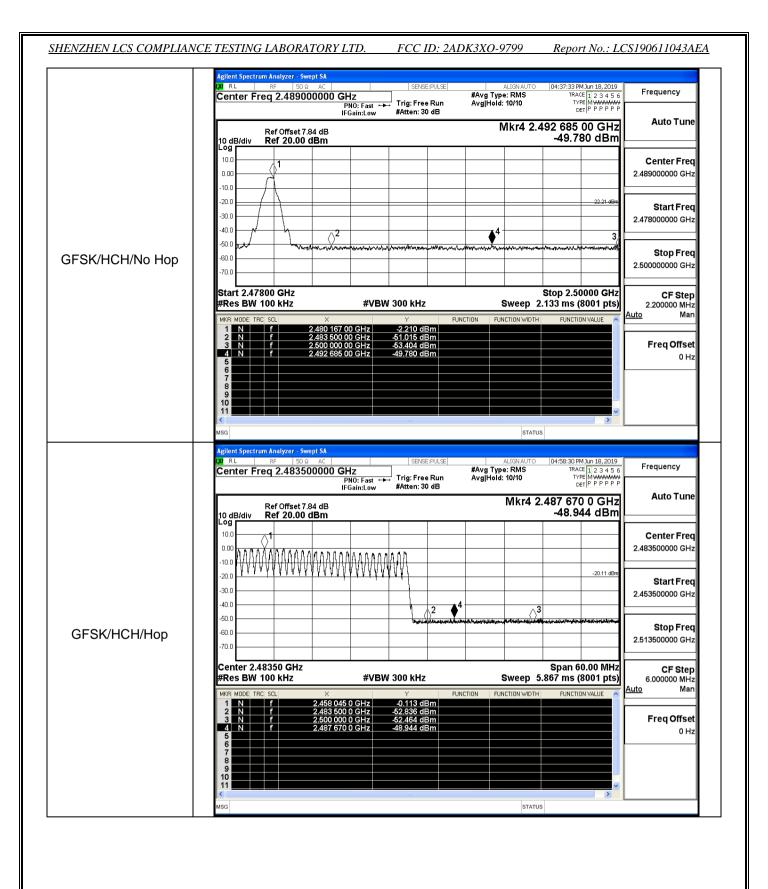


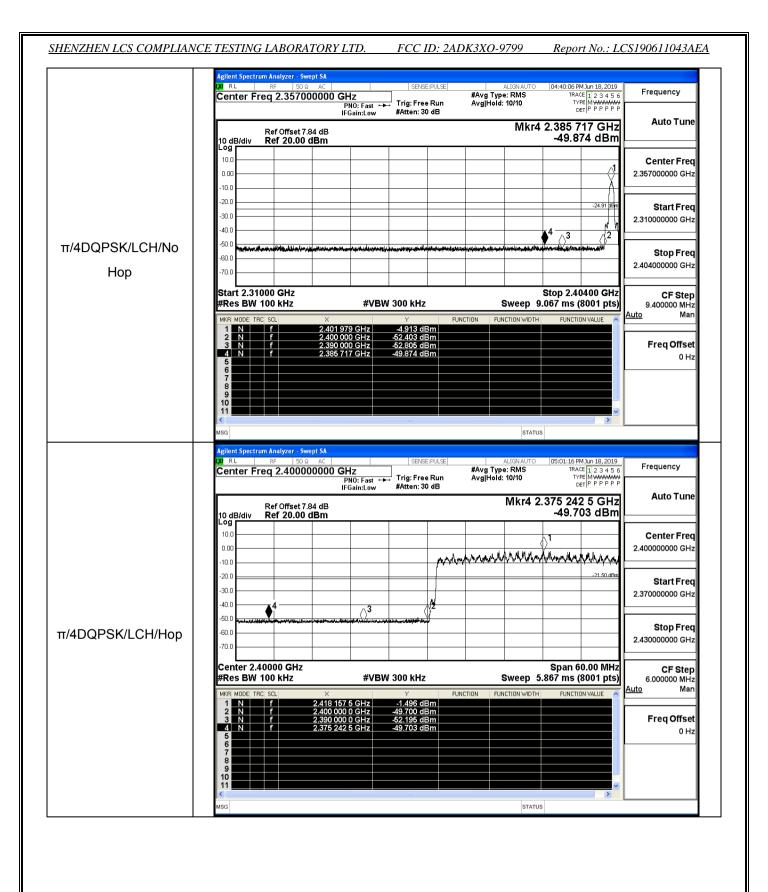


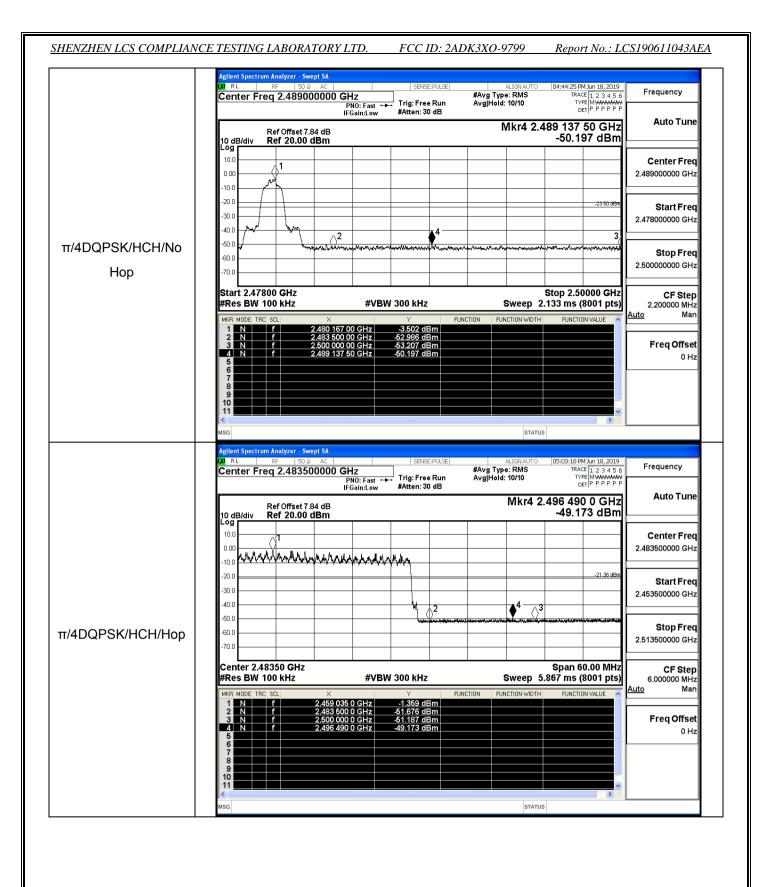
A.7 Band-edge for RF Conducted Emissions

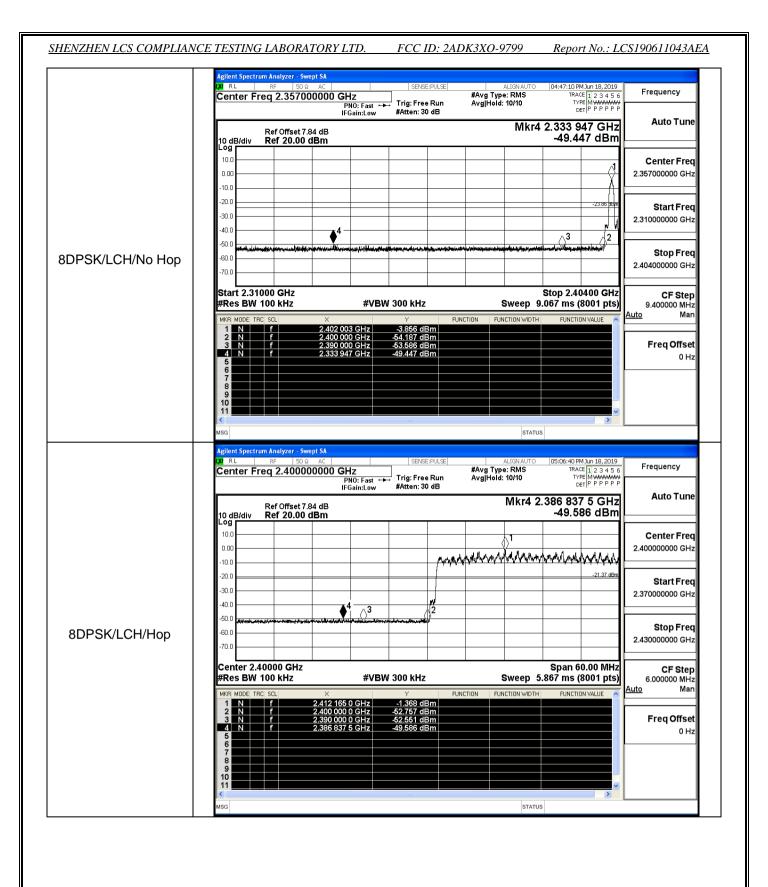
Mode	Channel	Carrier Frequency [MHz]	Carrier Power [dBm]	Frequency Hopping	Max Spurious Level [dBm]	Limit [dBm]	Verdict		
			-2.479	Off	-50.487	-22.48	PASS		
0.501/	LCH	2402	-0.022	On	-50.077	-20.02	PASS		
GFSK	нсн	2480	-2.210	Off	-49.780	-22.21	PASS		
			-0.113	On	-48.944	-20.11	PASS		
	LCH				-4.913	Off	-49.874	-24.91	PASS
		2402	-1.496	On	-49.703	-21.5	PASS		
π/4DQPSK	нсн		-3.502	Off	-50.197	-23.5	PASS		
		2480	-1.359	On	-49.173	-21.36	PASS		
				-3.856	Off	-49.447	-23.86	PASS	
	LCH	2402	-1.368	On	-49.586	-21.37	PASS		
8DPSK			-3.587	Off	-49.540	-23.59	PASS		
	HCH	2480	-1.448	On	-47.344	-21.45	PASS		

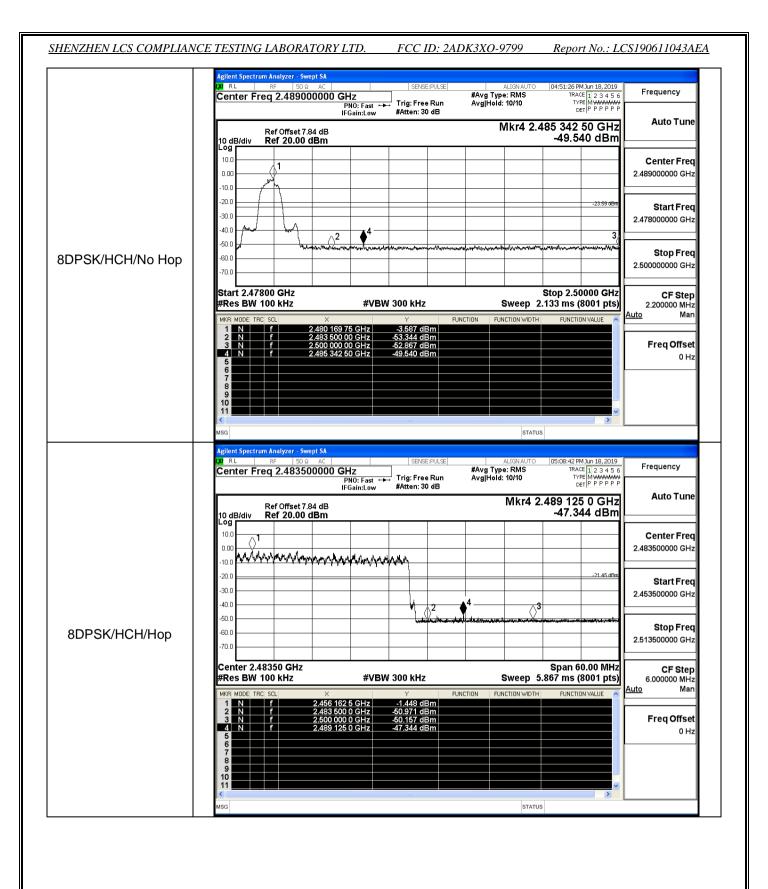






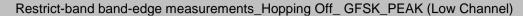


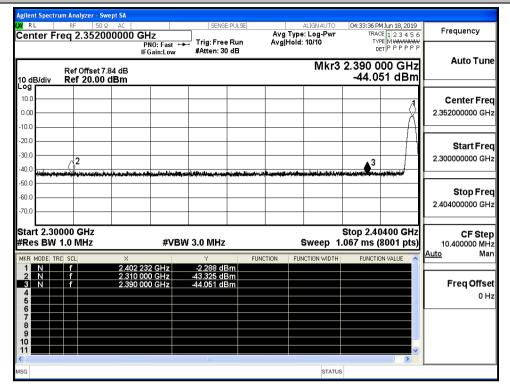




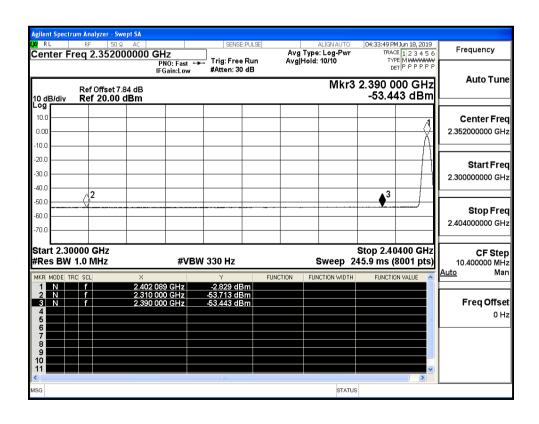
A.8 Restrict-band band-edge measurements

Test Mode	Hopping	Freq.	Power [dBm]	Gain	Ground Factor	E [dBuV/m]	Detector	Limit [dBuV/m]	Verdict
	Off	2310.0	-43.33	2.0	0	53.93	PEAK	74	PASS
	Off	2310.0	-53.71	2.0	0	43.54	AV	54	PASS
	Off	2390.0	-44.05	2.0	0	53.21	PEAK	74	PASS
	Off	2390.0	-53.44	2.0	0	43.81	AV	54	PASS
GFSK	Off	2483.5	-42.93	2.0	0	54.33	PEAK	74	PASS
	Off	2483.5	-53.27	2.0	0	43.99	AV	54	PASS
	Off	2500.0	-43.03	2.0	0	54.22	PEAK	74	PASS
	Off	2500.0	-53.12	2.0	0	44.14	AV	54	PASS
	Off	2310.0	-43.08	2.0	0	54.18	PEAK	74	PASS
	Off	2310.0	-53.82	2.0	0	43.44	AV	54	PASS
	Off	2390.0	-43.25	2.0	0	54.01	PEAK	74	PASS
	Off	2390.0	-53.48	2.0	0	43.78	AV	54	PASS
π/4DQPSK	Off	2483.5	-42.51	2.0	0	54.75	PEAK	74	PASS
	Off	2483.5	-53.28	2.0	0	43.98	AV	54	PASS
	Off	2500.0	-42.00	2.0	0	55.26	PEAK	74	PASS
	Off	2500.0	-53.18	2.0	0	44.08	AV	54	PASS
	Off	2310.0	-44.10	2.0	0	53.16	PEAK	74	PASS
	Off	2310.0	-53.79	2.0	0	43.47	AV	54	PASS
	Off	2390.0	-42.48	2.0	0	54.78	PEAK	74	PASS
	Off	2390.0	-53.50	2.0	0	43.75	AV	54	PASS
8DPSK	Off	2483.5	-43.45	2.0	0	53.81	PEAK	74	PASS
	Off	2483.5	-53.12	2.0	0	44.13	AV	54	PASS
	Off	2500.0	-42.39	2.0	0	54.87	PEAK	74	PASS
	Off	2500.0	-53.17	2.0	0	44.08	AV	54	PASS

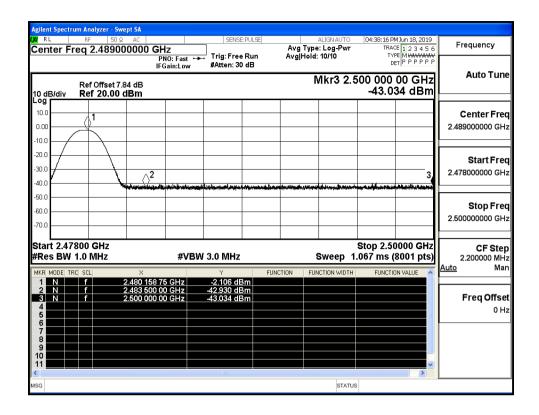




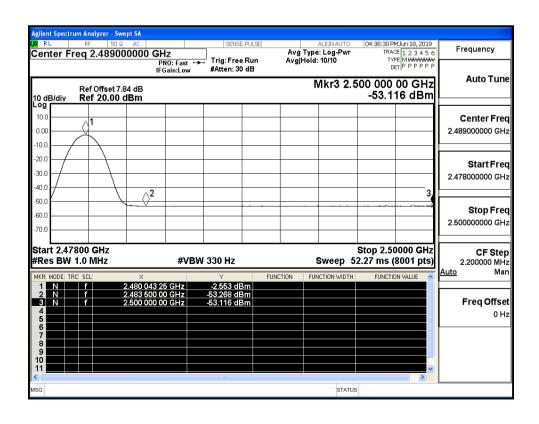
Restrict-band band-edge measurements_Hopping Off_ GFSK_Average (Low Channel)



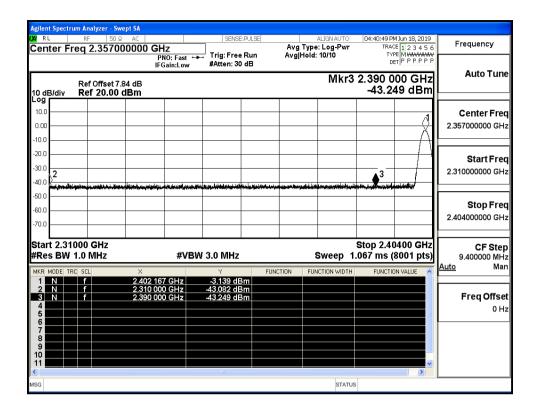
Restrict-band band-edge measurements_Hopping Off_ GFSK_PEAK (High Channel)



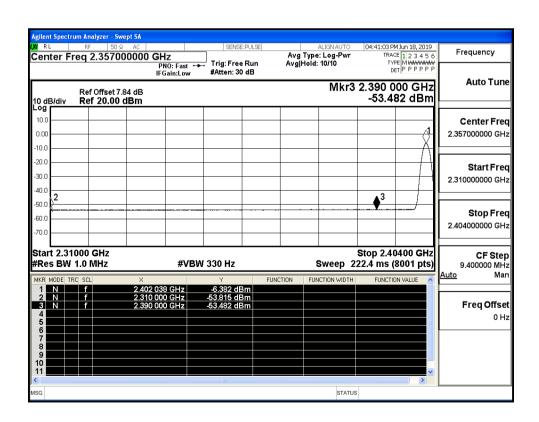
Restrict-band band-edge measurements_Hopping Off_ GFSK_Average (High Channel)



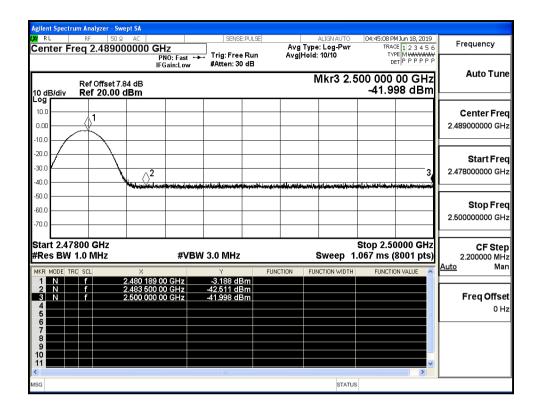
Restrict-band band-edge measurements_Hopping Off_π/4-DQPSK_PEAK (Low Channel)



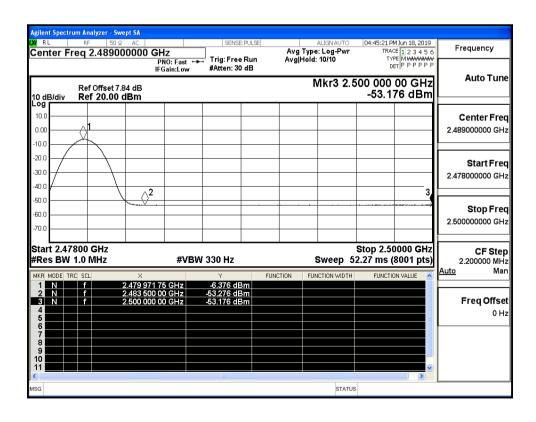
Restrict-band band-edge measurements_Hopping Off_π/4-DQPSK_Average (Low Channel)



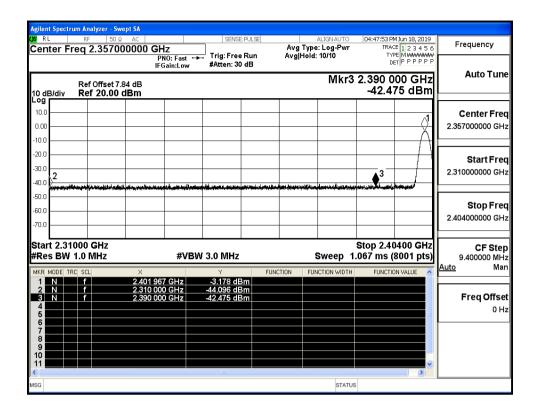
Restrict-band band-edge measurements_Hopping Off_π/4-DQPSK_PEAK (High Channel)



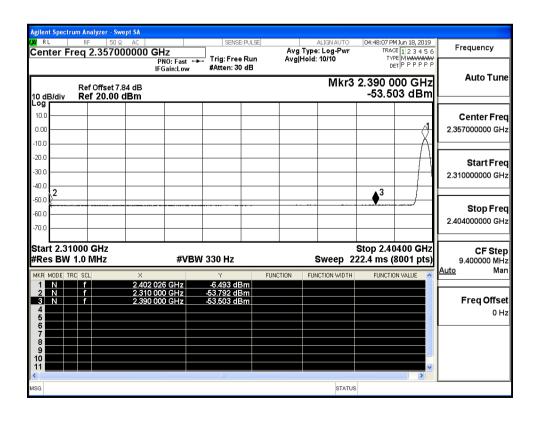
Restrict-band band-edge measurements_Hopping Off_π/4-DQPSK_Average (High Channel)



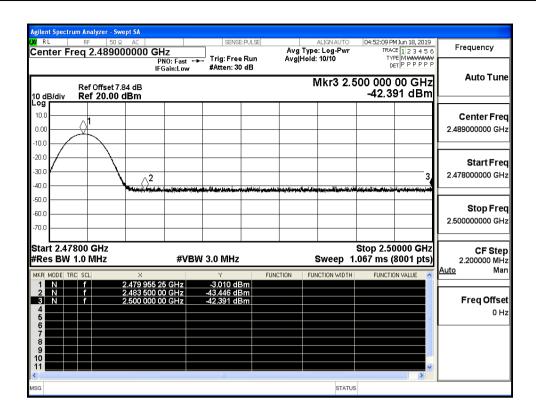
Restrict-band band-edge measurements_Hopping Off_8DPSK_PEAK (Low Channel)



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)

