Appendix A

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

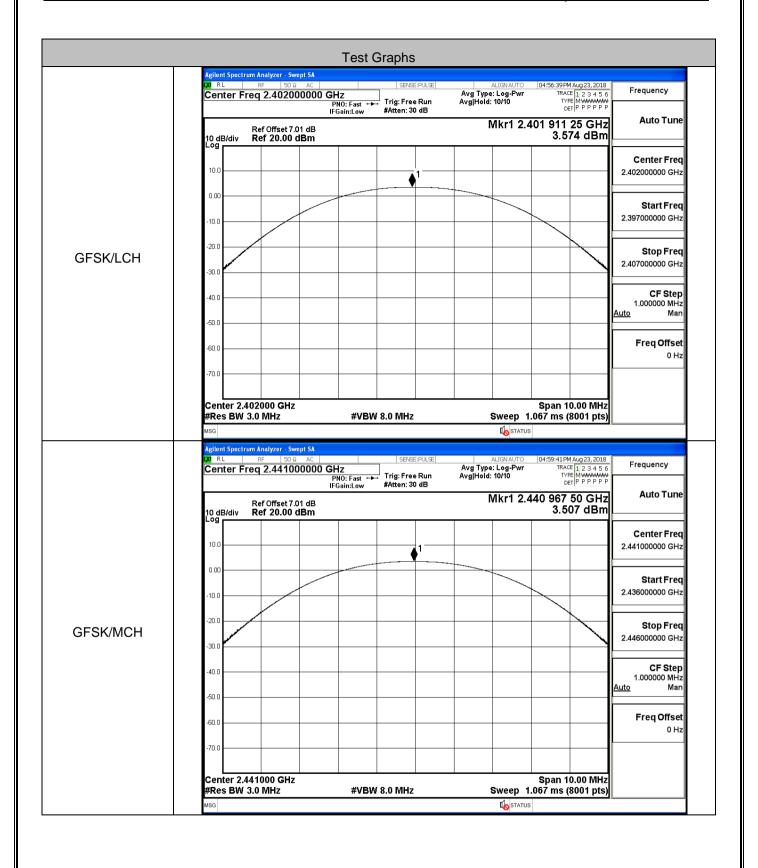
Product Name: BT-510ANC On Ear Bluetooth Headphone with ANC Trade Mark: Monoprice, IIIP Test Model: 34439

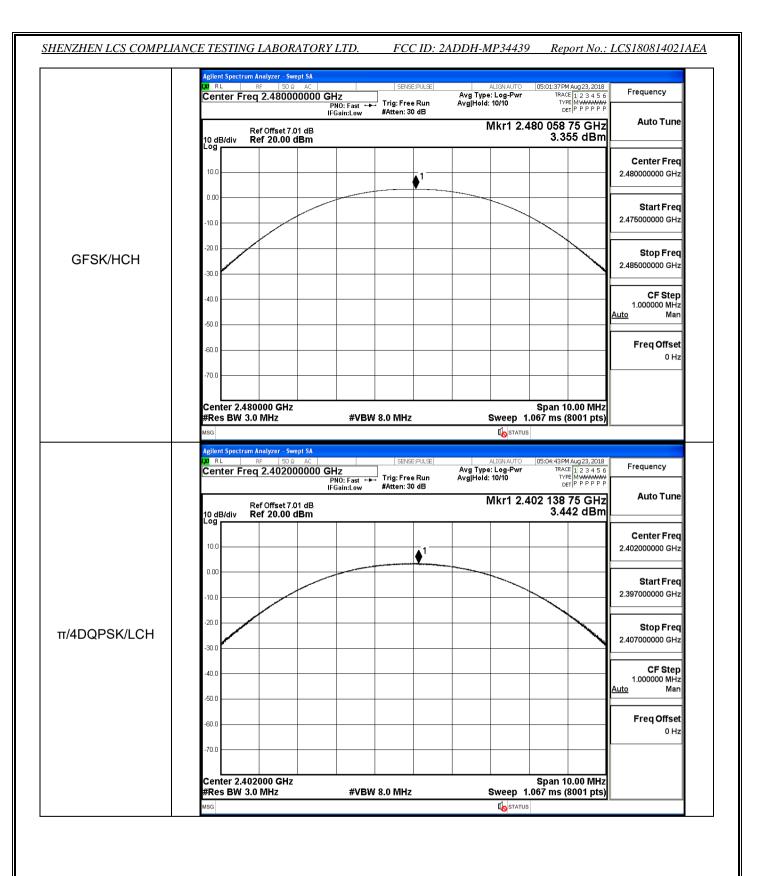
Environmental Conditions

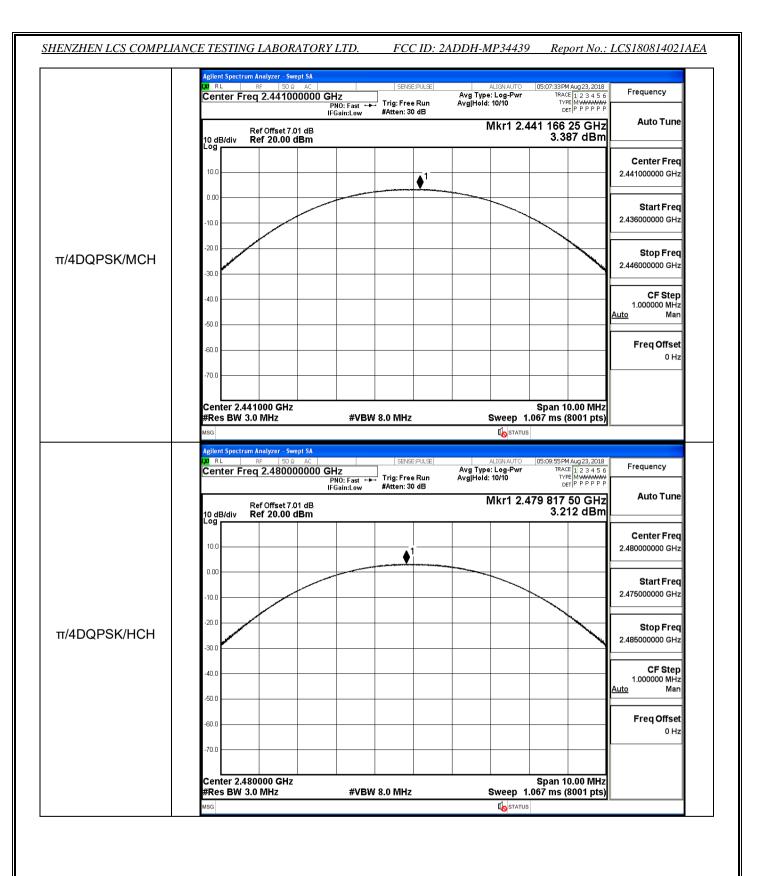
-	
Temperature:	22.6 ° C
Relative Humidity:	52.3%
ATM Pressure:	100.0 kPa
Test Engineer:	Pengyunfei
Supervised by:	Jayden.Zhuo

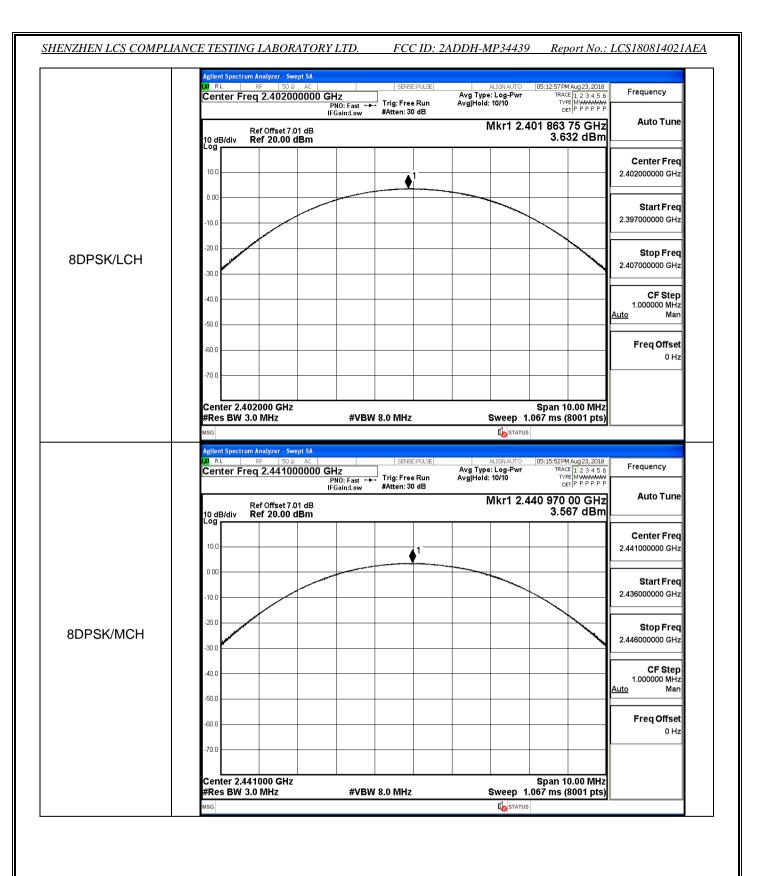
A.1 Maximum Conducted Peak Output Power

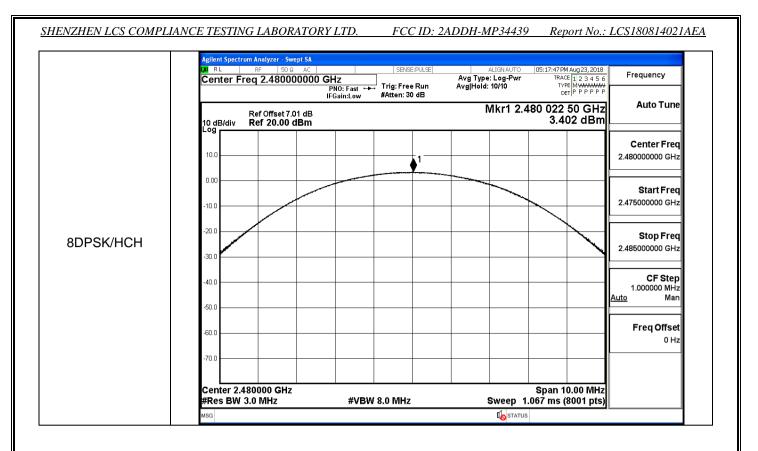
Mode	Channel.	Maximum Peak Output Power [dBm]	Limit [dBm]	Verdict
	LCH	3.574	21	PASS
GFSK	MCH	3.507	21	PASS
	НСН	3.355	21	PASS
	LCH	3.442	21	PASS
π/4DQPSK	MCH	3.387	21	PASS
	НСН	3.212	21	PASS
	LCH	3.632	21	PASS
8DPSK	MCH	3.567	21	PASS
	HCH	3.402	21	PASS





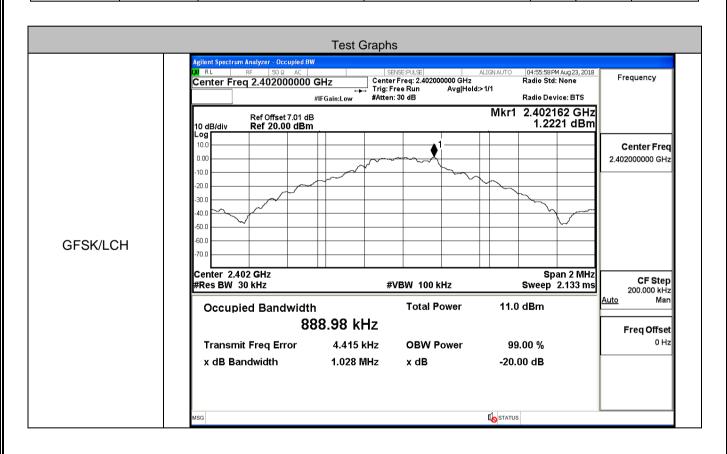


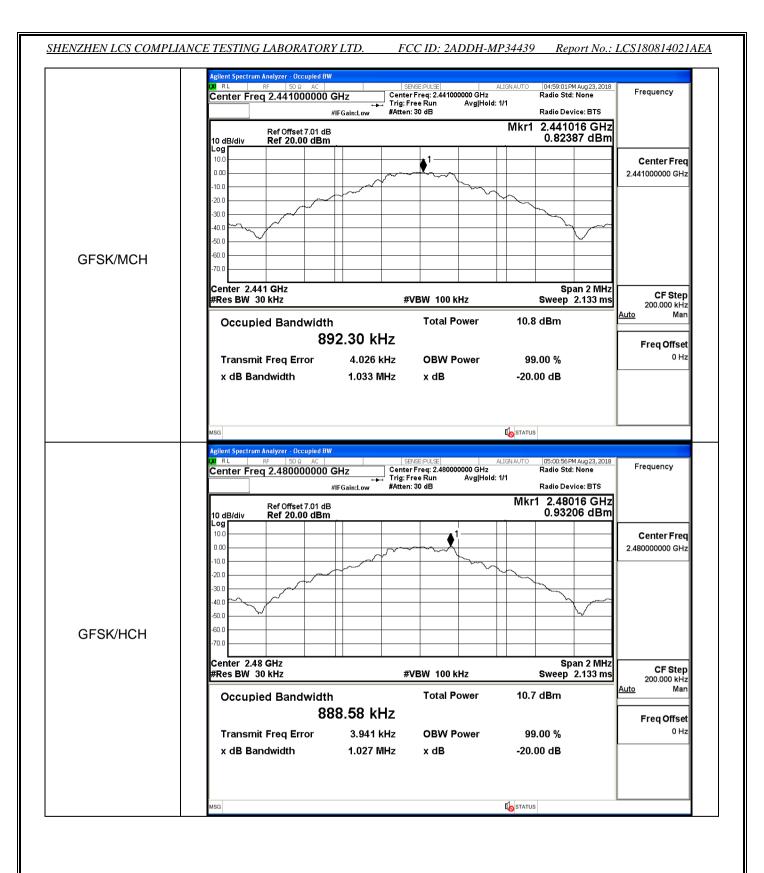


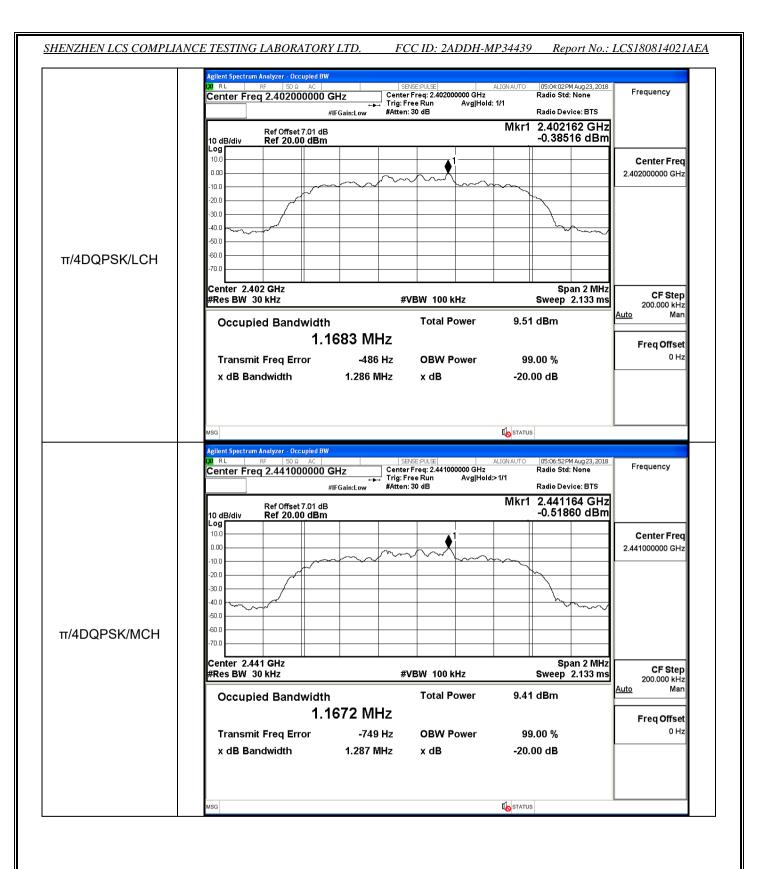


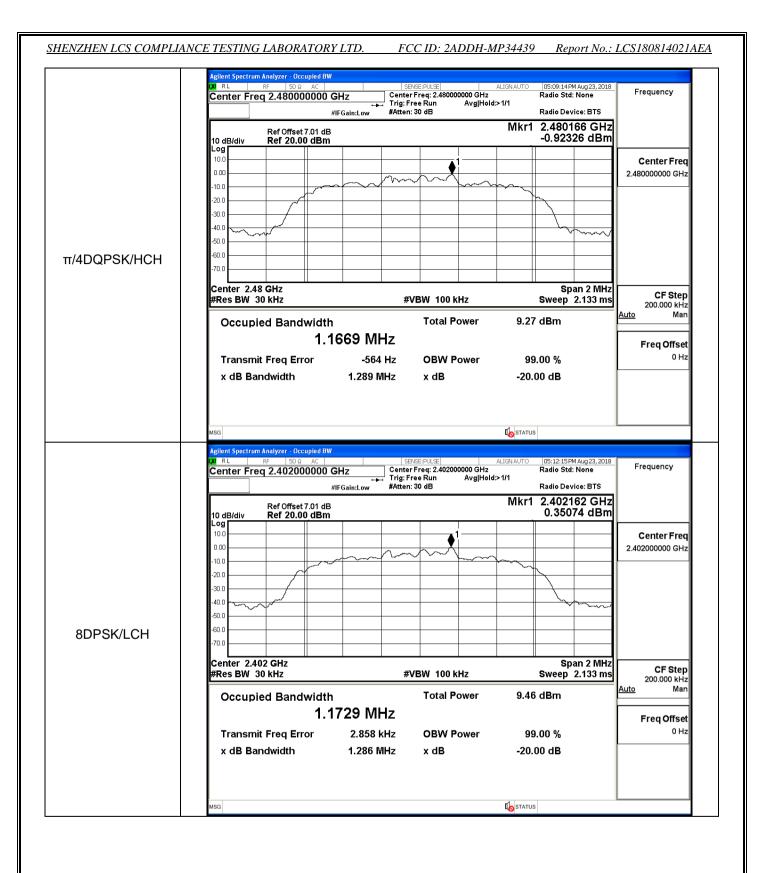
A.2 99% and 20dB Bandwidth

Mode	Channel.	99% Bandwidth [MHz]	20dB Bandwidth [MHz]	Limit [MHz]	Verdict
	LCH	0.88898	1.028	Not Specified	PASS
GFSK	MCH	0.89230	1.033	Not Specified	PASS
	HCH	0.88858	1.027	Not Specified	PASS
	LCH	1.1683	1.286	Not Specified	PASS
π/4DQPSK	MCH	1.1672	1.287	Not Specified	PASS
	HCH	1.1669	1.289	Not Specified	PASS
	LCH	1.1729	1.286	Not Specified	PASS
8DPSK	MCH	1.1709	1.286	Not Specified	PASS
	HCH	1.1705	1.285	Not Specified	PASS



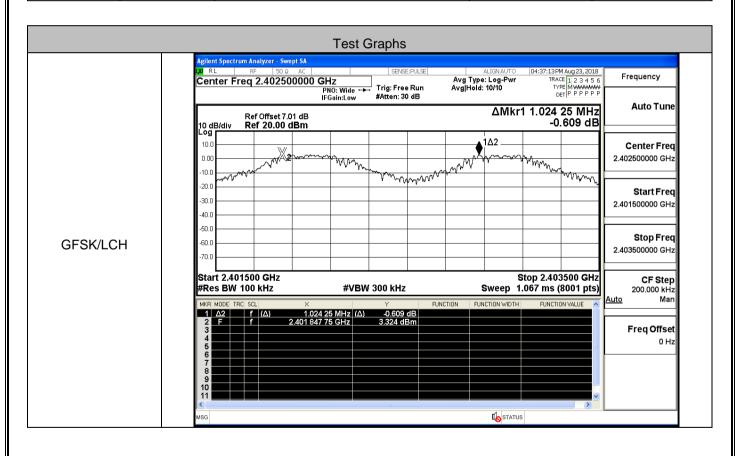


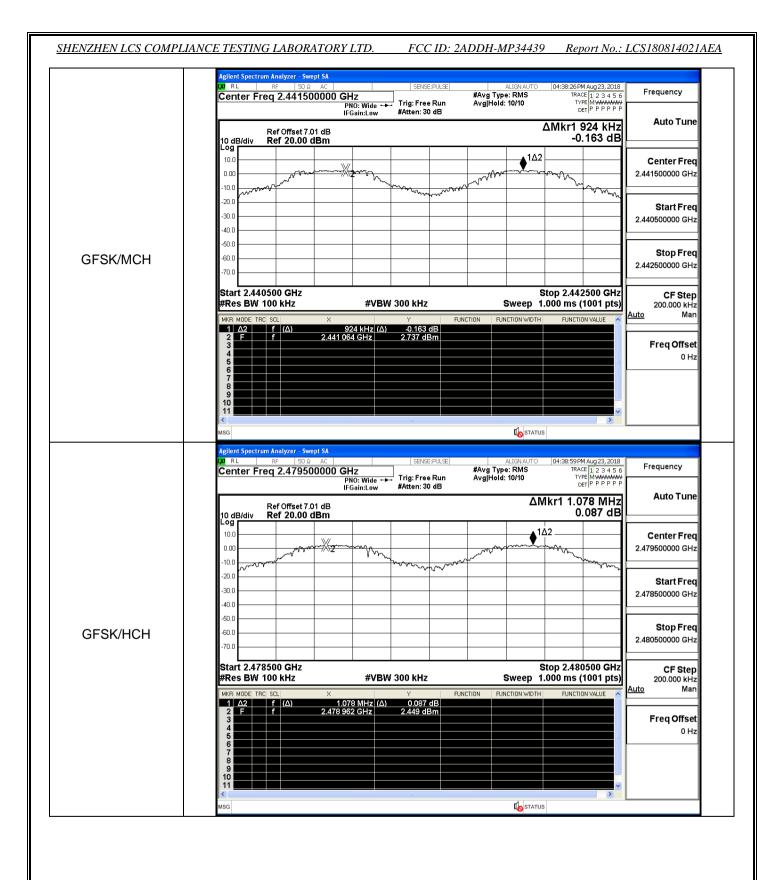


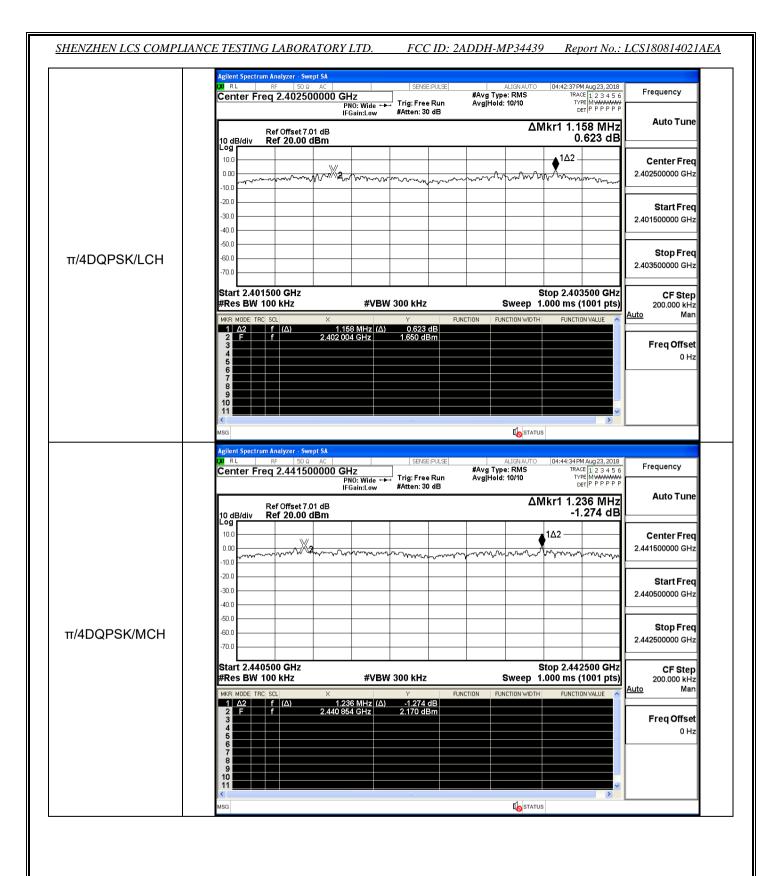


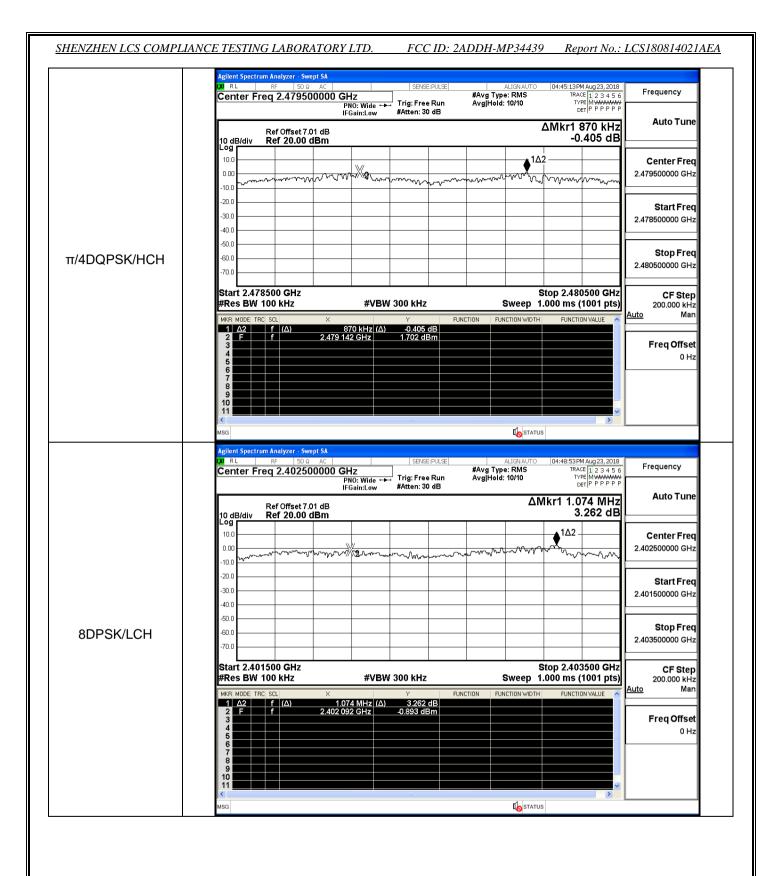
A.3 Carrier Frequency Separation

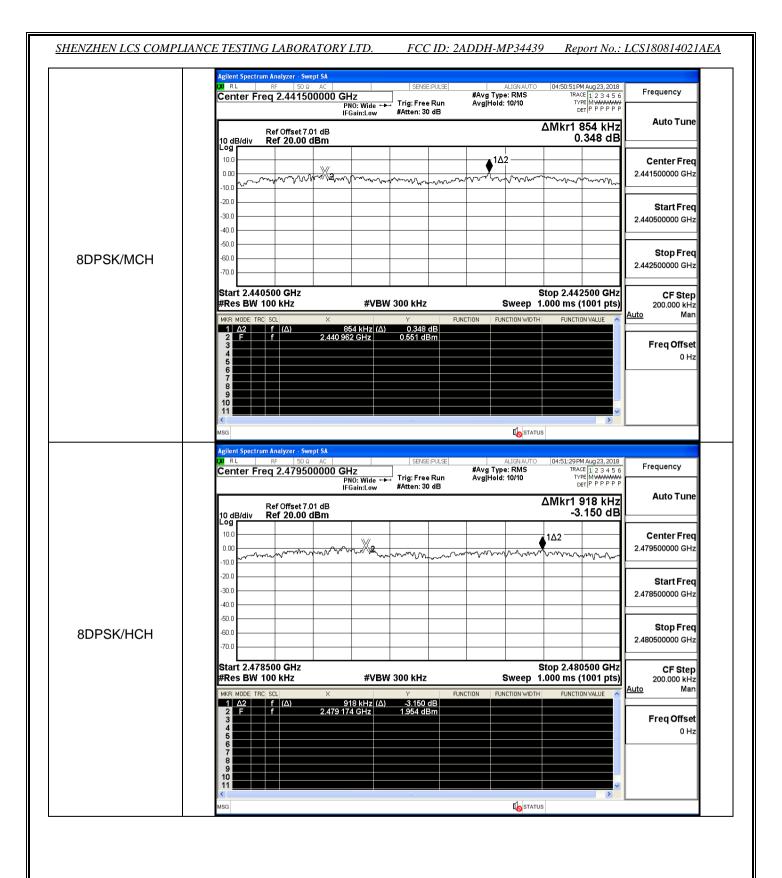
Mode	Channel.	Carrier Frequency Separation [MHz]	Limit [MHz]	Verdict
	LCH	1.024	0.685	PASS
GFSK	MCH	0.924	0.689	PASS
	HCH	1.078	0.685	PASS
	LCH	1.158	0.857	PASS
π/4DQPSK	MCH	1.236	0.858	PASS
	HCH	0.870	0.859	PASS
	LCH	1.074	0.857	PASS
8DPSK	MCH	0.854	0.857	PASS
	HCH	0.918	0.857	PASS





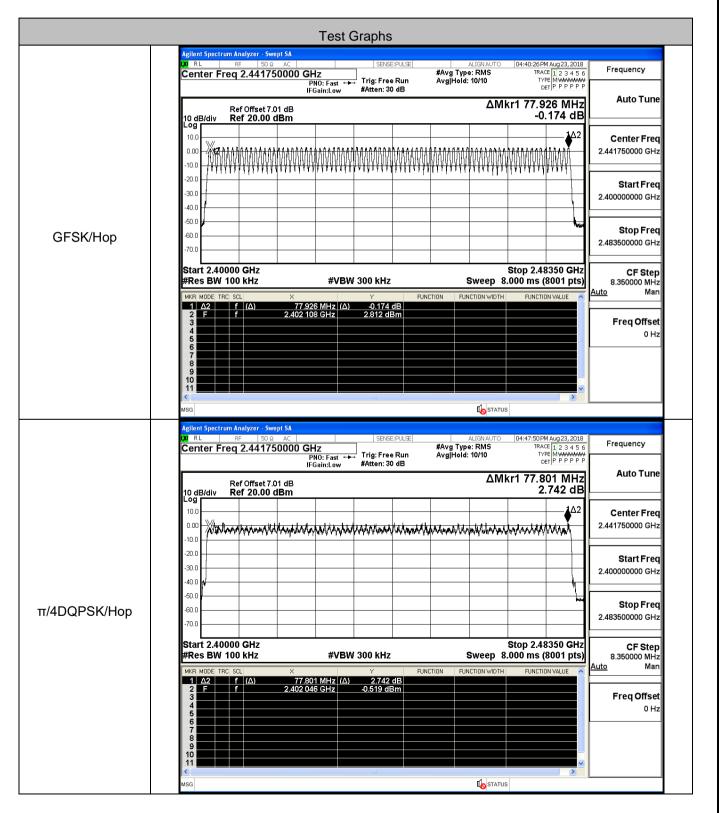


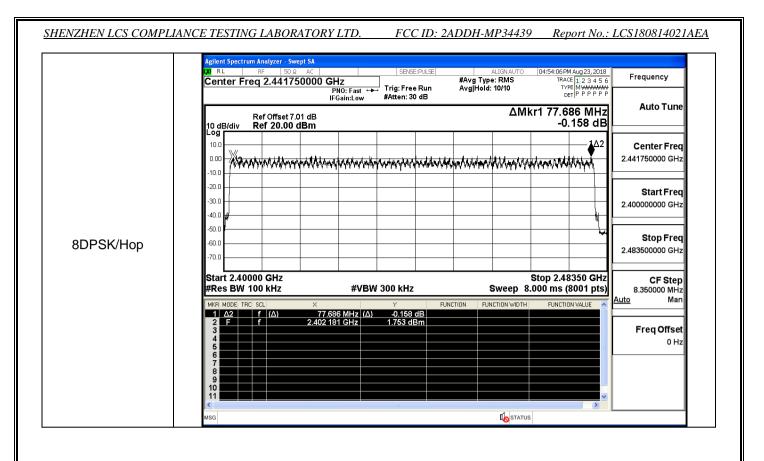




A.4 Hopping Channel Number

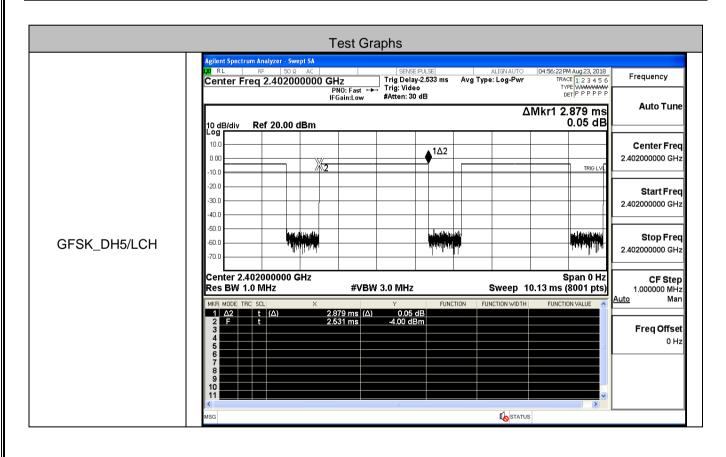
Mode	Channel.	Number of Hopping Channel [N]	Limit [N]	Verdict
GFSK	Нор	79	>=15	PASS
π/4DQPSK	Нор	79	>=15	PASS
8DPSK	Нор	79	>=15	PASS

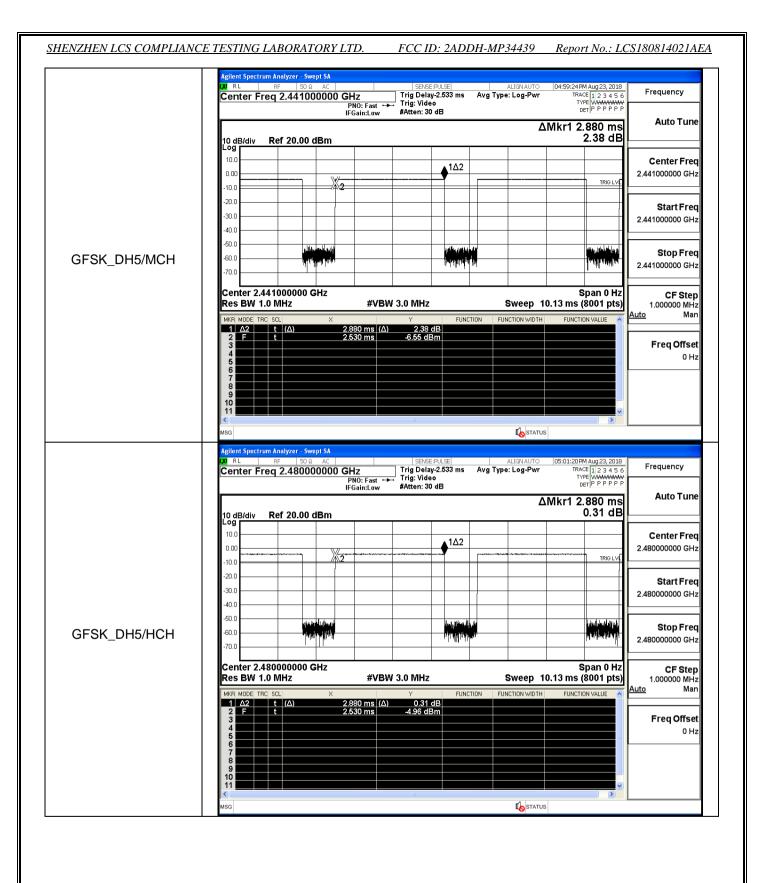


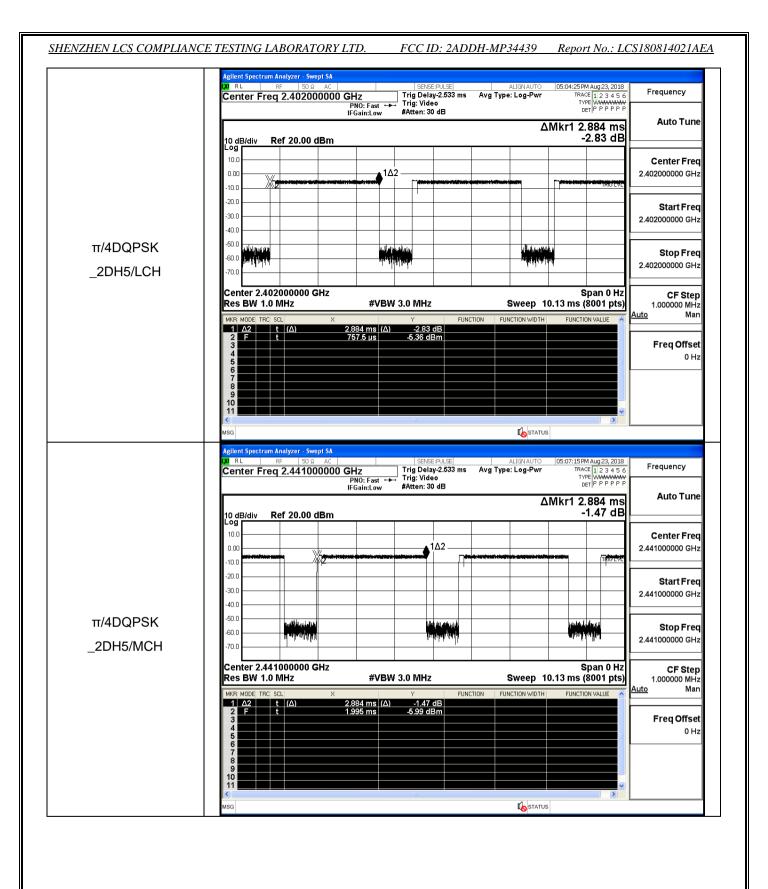


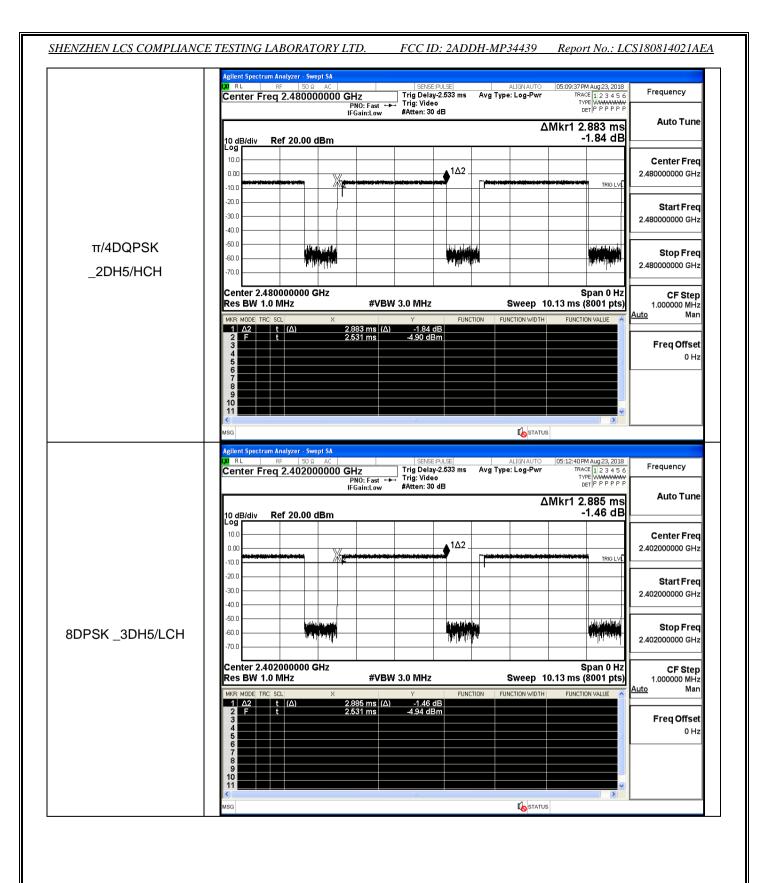
A.5 Dwell Time

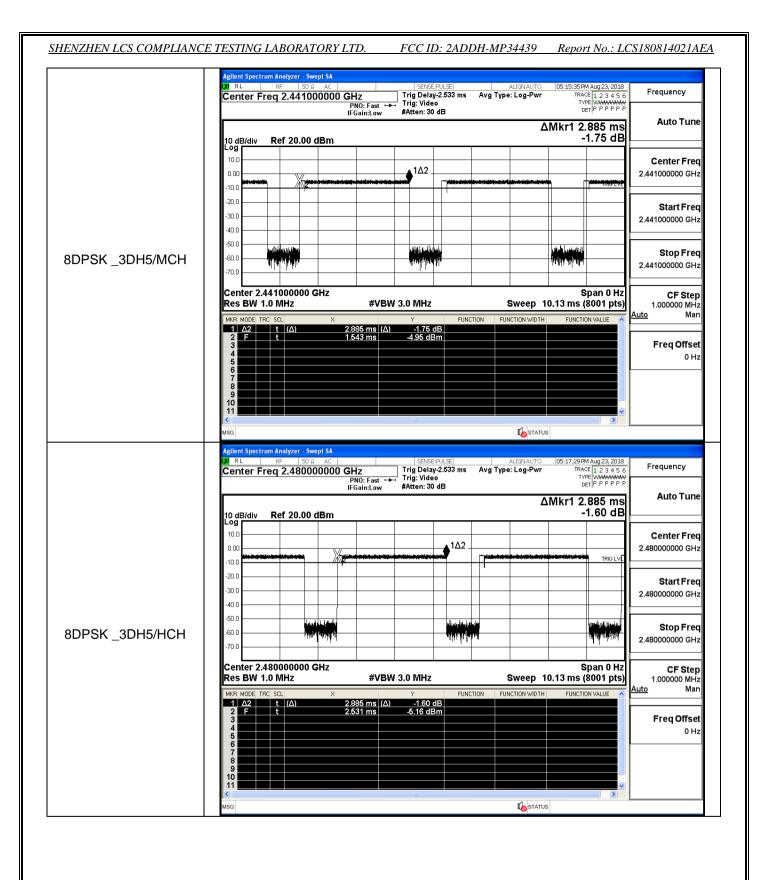
Mode	Packet	Channel	Burst Width [ms/hop/ch]	Total Hops[hop*ch]	Dwell Time[s]	Limit [s]	Verdict
	DH5	LCH	2.88	106.7	0.307	0.4	PASS
GFSK	DH5	MCH	2.88	106.7	0.307	0.4	PASS
	DH5	НСН	2.88	106.7	0.307	0.4	PASS
	2DH5	LCH	2.88	106.7	0.307	0.4	PASS
π/4DQPSK	2DH5	MCH	2.88	106.7	0.307	0.4	PASS
	2DH5	HCH	2.88	106.7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





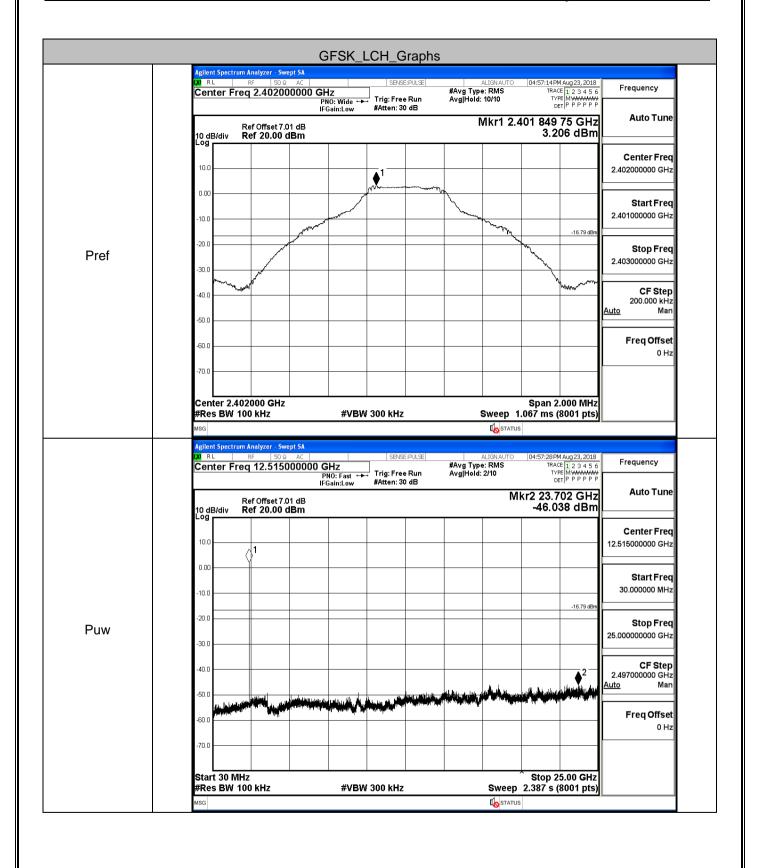


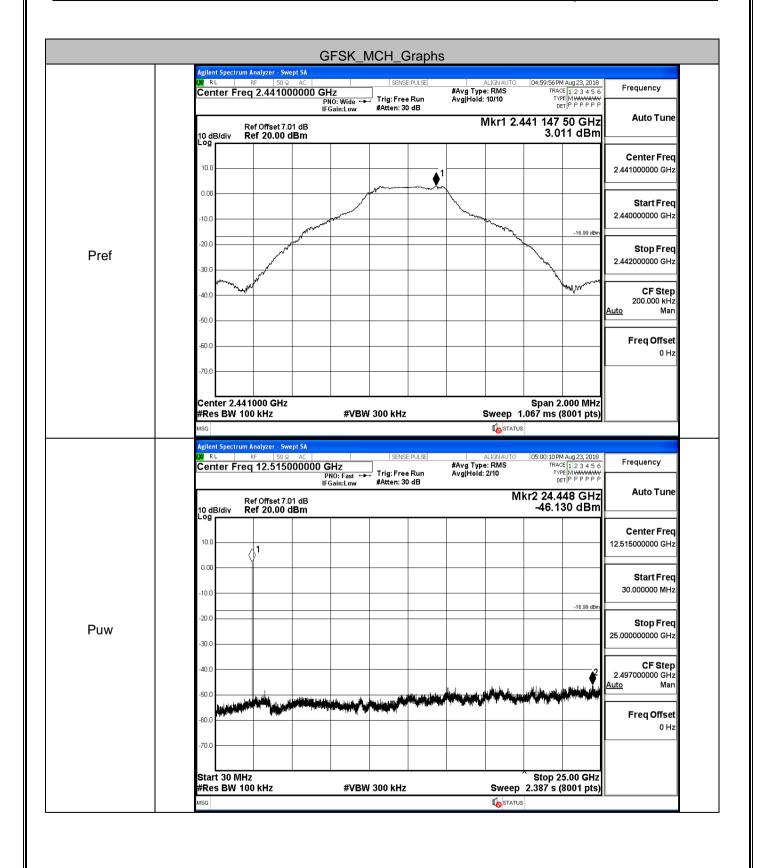


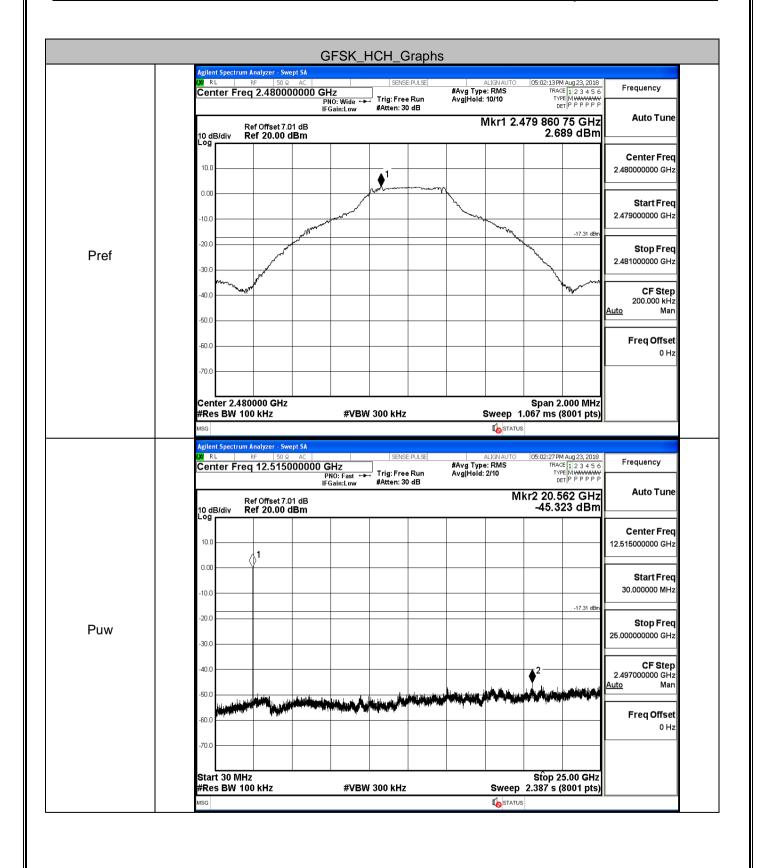


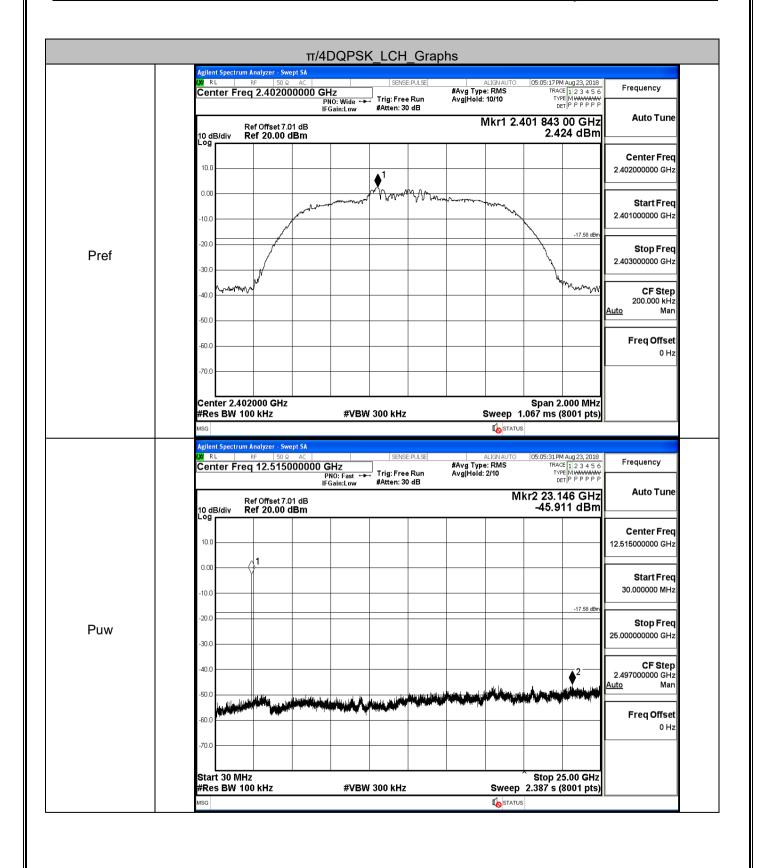
A.6 RF Conducted Spurious Emissions

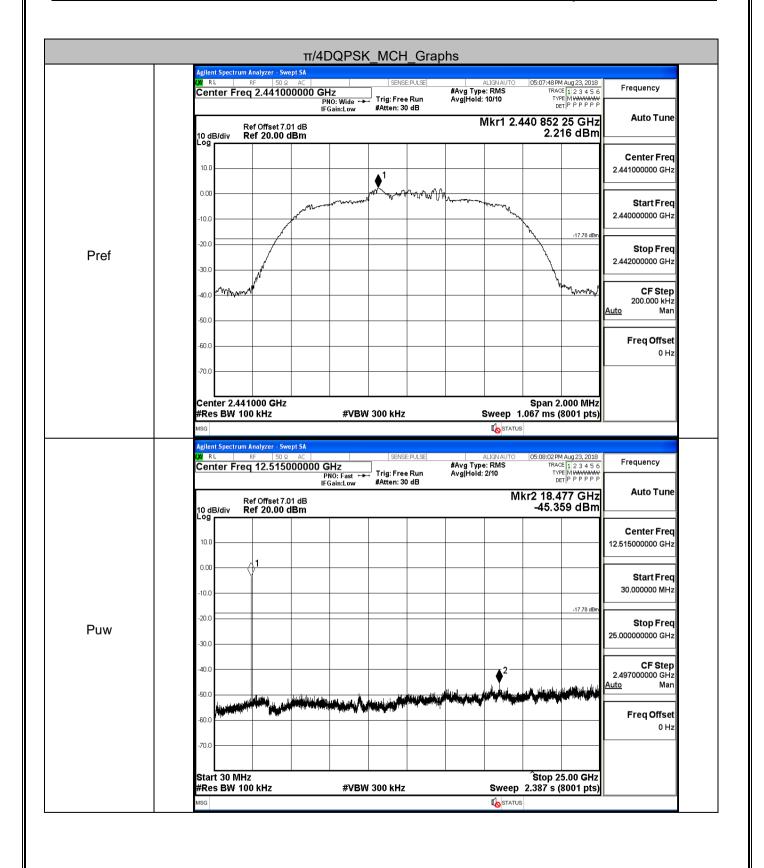
Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
	LCH	3.206	-46.038	-16.794	PASS
GFSK	MCH	3.011	-46.130	-16.989	PASS
	HCH	2.689	-46.224	-17.311	PASS
	LCH	2.424	-45.911	-17.576	PASS
π/4DQPSK	MCH	2.216	-45.359	-17.784	PASS
	HCH	2.177	-46.011	-17.823	PASS
	LCH	2.445	-46.036	-17.555	PASS
8DPSK	MCH	1.68	-46.305	-18.320	PASS
	HCH	2.072	-45.236	-17.928	PASS

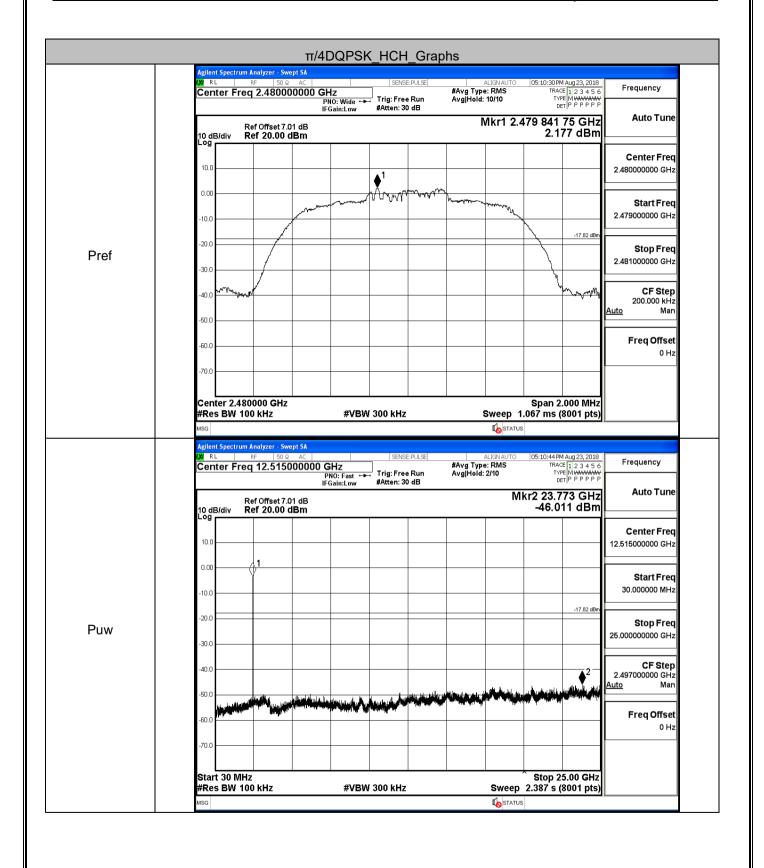


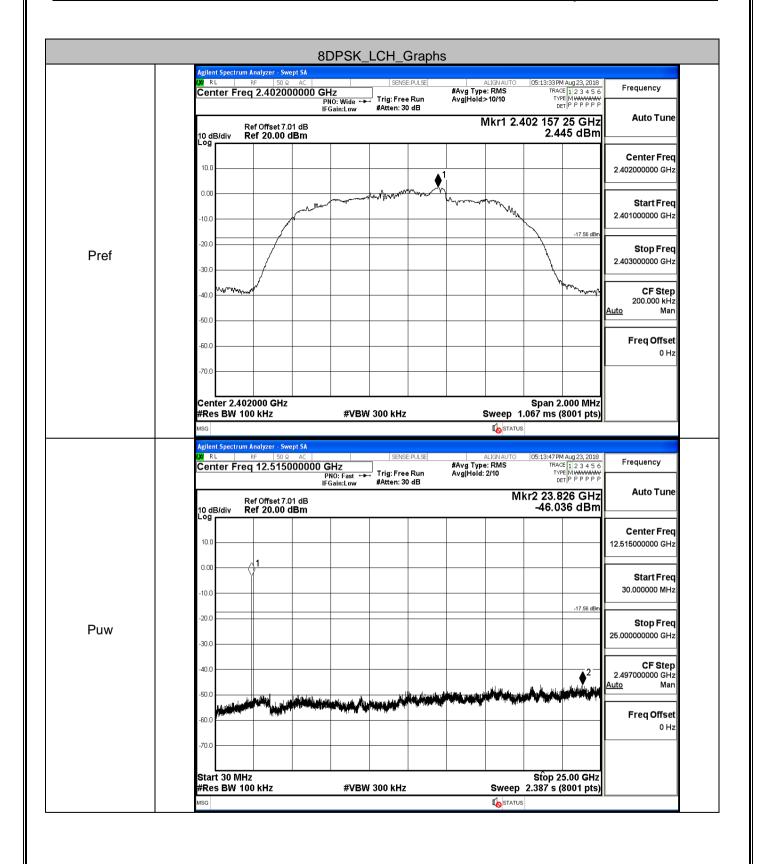


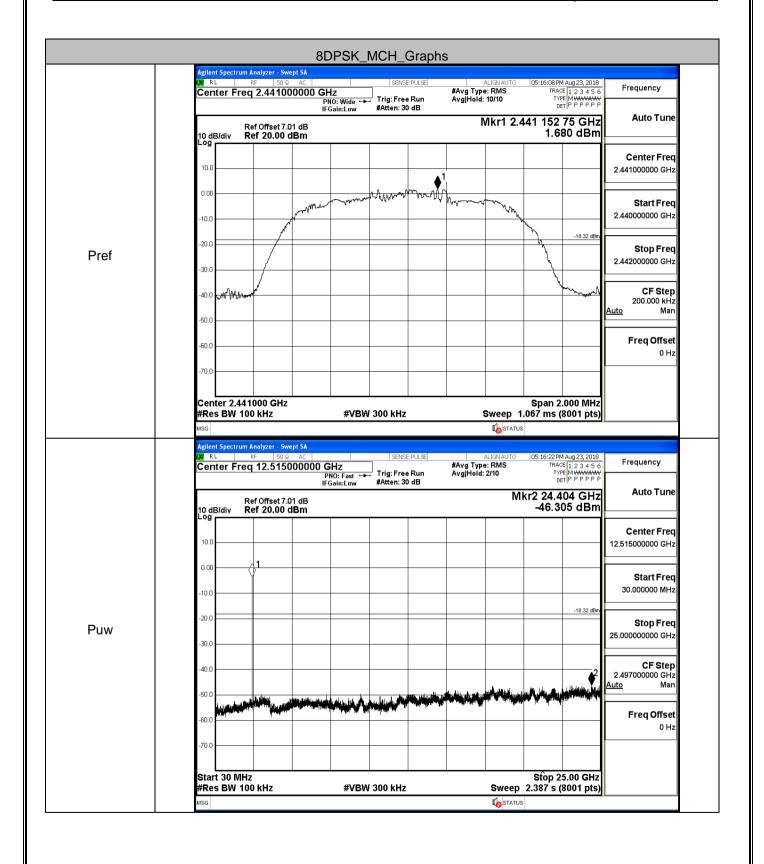


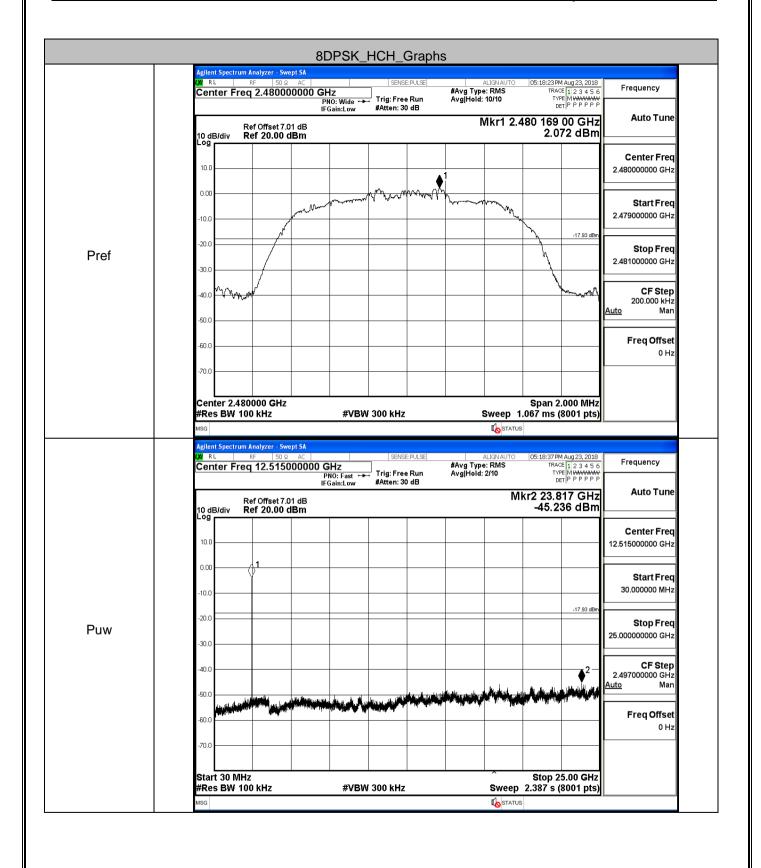






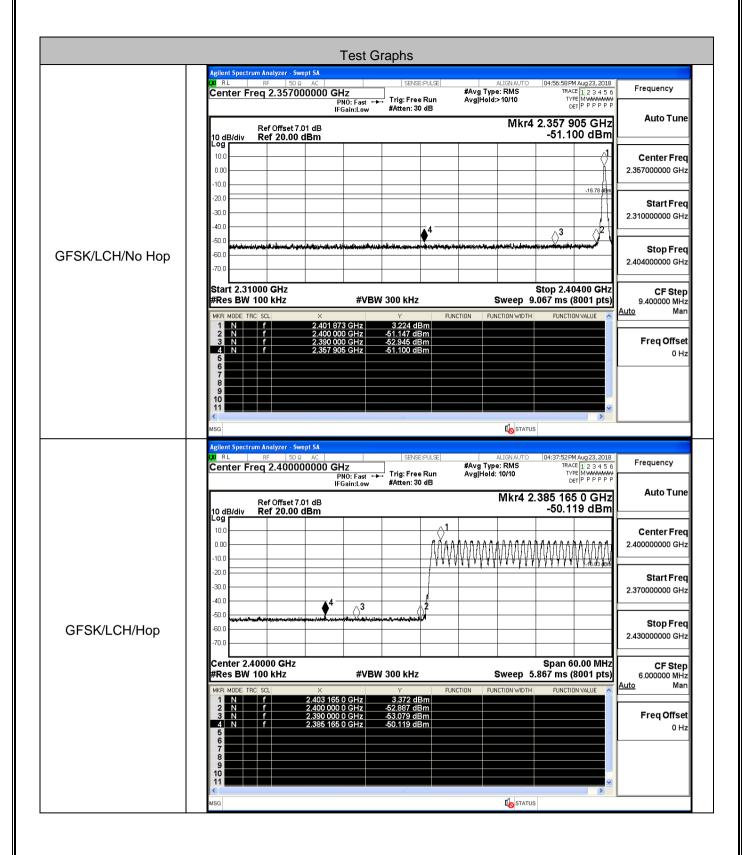


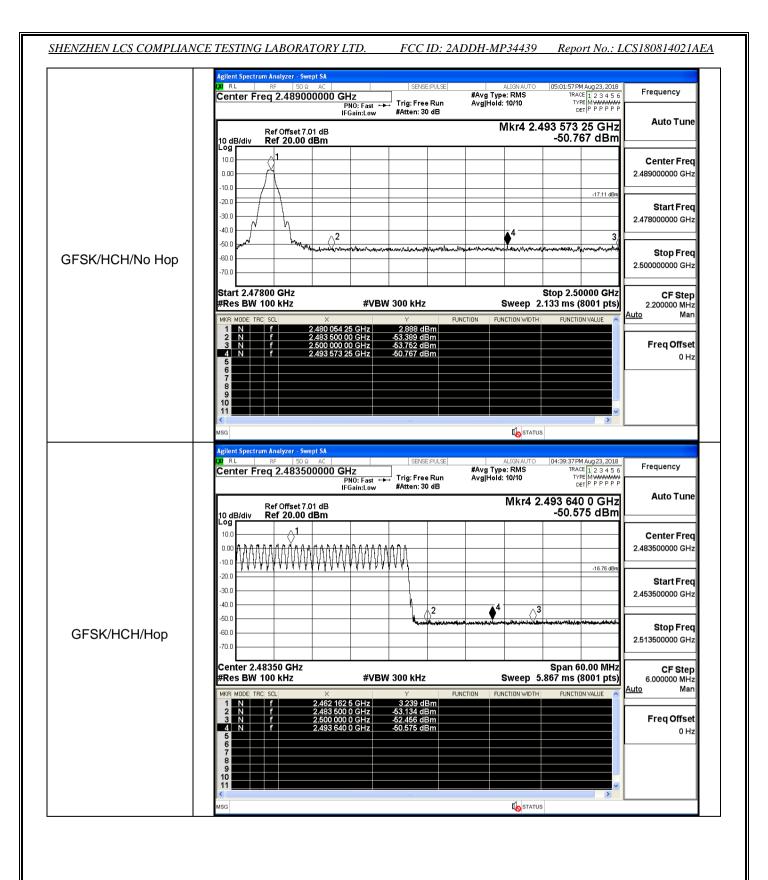


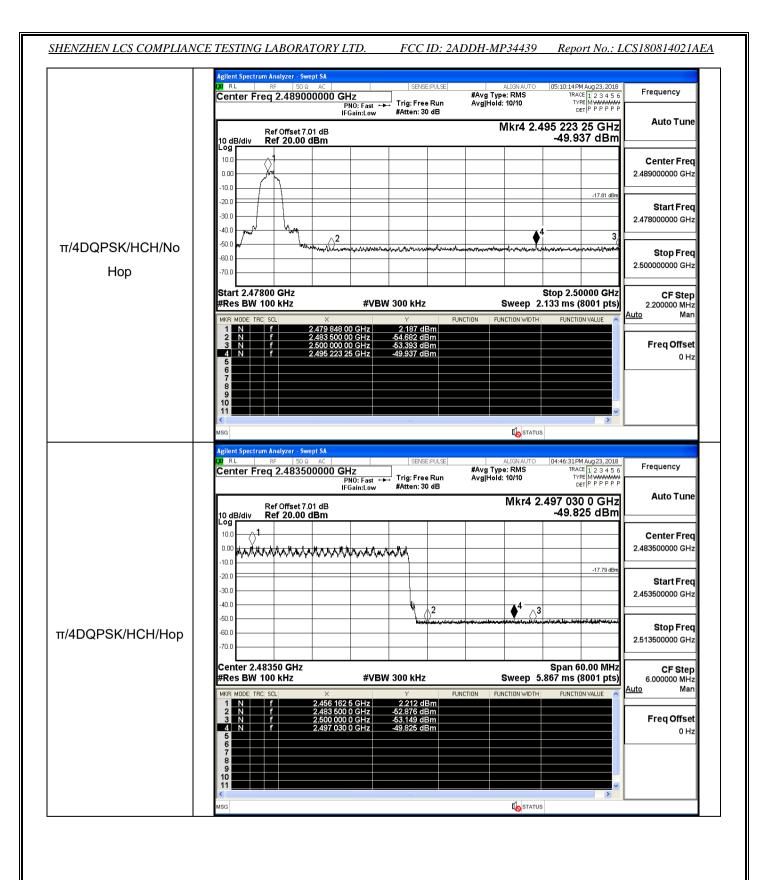


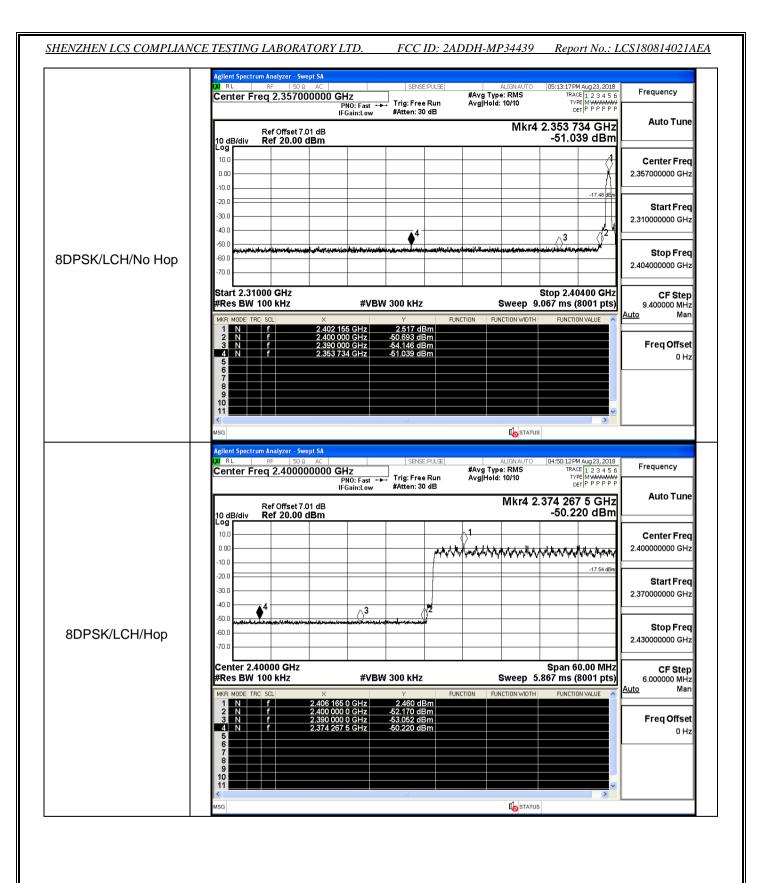
A.7 Band-edge for RF Conducted Emissions

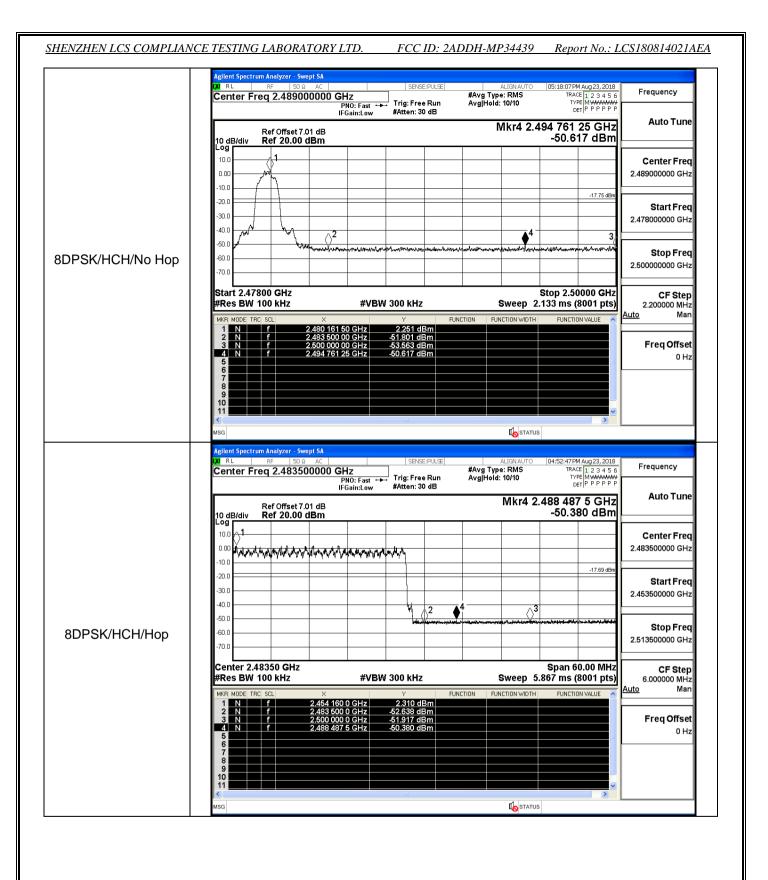
Mode	Channel	Carrier Frequency [MHz]	Carrier Power [dBm]	Frequency Hopping	Max Spurious Level [dBm]	Limit [dBm]	Verdict	
			3.224	Off	-51.100	-16.78	PASS	
2-21/	LCH	2402	3.372	On	-50.119	-16.63	PASS	
GFSK	нсн		2.888	Off	-50.767	-17.11	PASS	
		2480	3.239	On	-50.575	-16.76	PASS	
	LCH			2.486	Off	-51.168	-17.51	PASS
		2402	2.331	On	-50.520	-17.67	PASS	
π/4DQPSK	НСН		2.187	Off	-49.937	-17.81	PASS	
		CH 2480	2.212	On	-49.825	-17.79	PASS	
			2.517	Off	-51.039	-17.48	PASS	
	LCH	2402	2.460	On	-50.220	-17.54	PASS	
8DPSK			2.251	Off	-50.617	-17.75	PASS	
	HCH	2480	2.310	On	-50.380	-17.69	PASS	





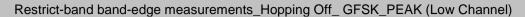


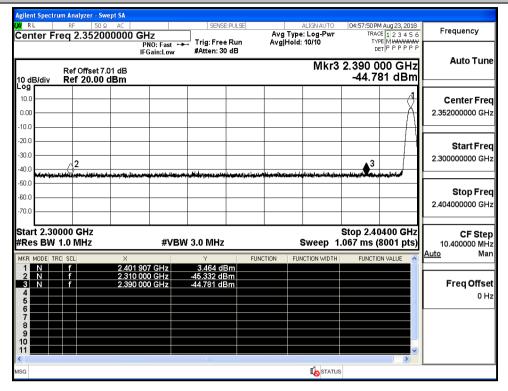




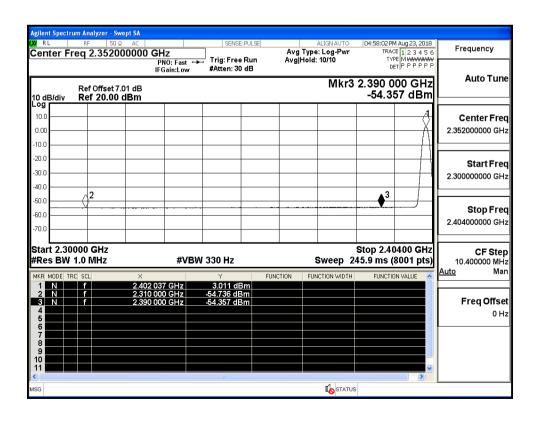
A.8 Restrict-band band-edge measurements

Test Mode	Hopping	Freq.	Power [dBm]	Gain	Ground Factor	E [dBuV/m]	Detector	Limit [dBuV/m]	Verdict
	Off	2310.0	-45.33	2.0	0	51.93	PEAK	74	PASS
	Off	2310.0	-54.74	2.0	0	42.52	AV	54	PASS
	Off	2390.0	-44.78	2.0	0	52.48	PEAK	74	PASS
	Off	2390.0	-54.36	2.0	0	42.90	AV	54	PASS
GFSK	Off	2483.5	-43.81	2.0	0	53.44	PEAK	74	PASS
	Off	2483.5	-53.96	2.0	0	43.29	AV	54	PASS
	Off	2500.0	-42.88	2.0	0	54.38	PEAK	74	PASS
	Off	2500.0	-54.04	2.0	0	43.22	AV	54	PASS
	Off	2310.0	-44.39	2.0	0	52.86	PEAK	74	PASS
	Off	2310.0	-54.68	2.0	0	42.57	AV	54	PASS
	Off	2390.0	-44.15	2.0	0	53.11	PEAK	74	PASS
	Off	2390.0	-54.47	2.0	0	42.78	AV	54	PASS
π/4DQPSK	Off	2483.5	-42.84	2.0	0	54.42	PEAK	74	PASS
	Off	2483.5	-54.04	2.0	0	43.22	AV	54	PASS
	Off	2500.0	-44.42	2.0	0	52.84	PEAK	74	PASS
	Off	2500.0	-53.98	2.0	0	43.28	AV	54	PASS
	Off	2310.0	-44.72	2.0	0	52.54	PEAK	74	PASS
	Off	2310.0	-54.68	2.0	0	42.58	AV	54	PASS
	Off	2390.0	-45.09	2.0	0	52.16	PEAK	74	PASS
	Off	2390.0	-54.47	2.0	0	42.79	AV	54	PASS
8DPSK	Off	2483.5	-44.02	2.0	0	53.24	PEAK	74	PASS
	Off	2483.5	-54.00	2.0	0	43.25	AV	54	PASS
	Off	2500.0	-43.83	2.0	0	53.42	PEAK	74	PASS
	Off	2500.0	-53.96	2.0	0	43.30	AV	54	PASS

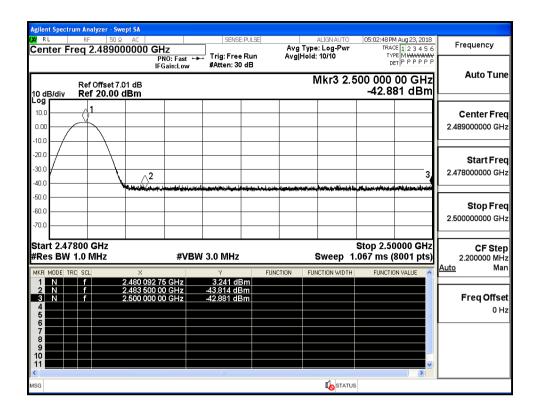




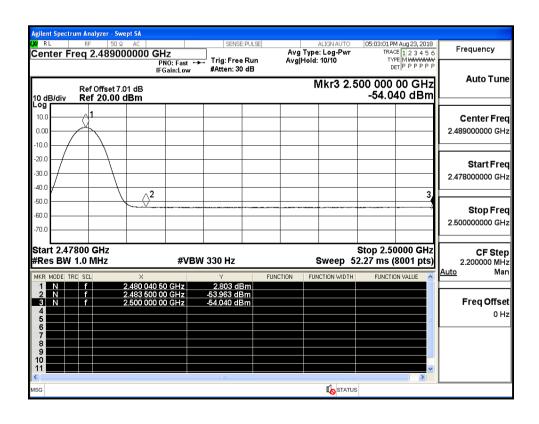
Restrict-band band-edge measurements_Hopping Off_ GFSK_Average (Low Channel)



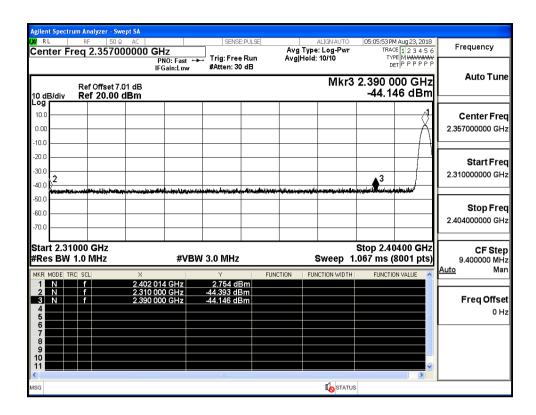
Restrict-band band-edge measurements_Hopping Off_ GFSK_PEAK (High Channel)



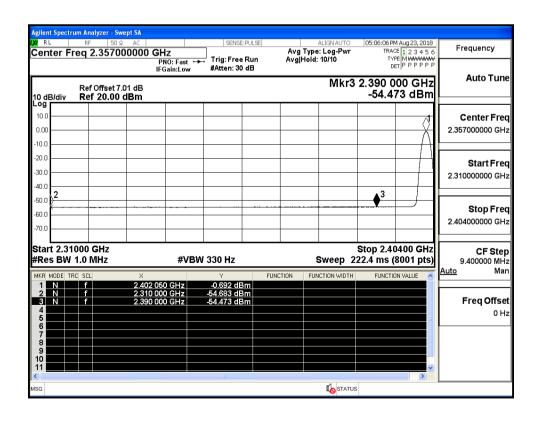
Restrict-band band-edge measurements_Hopping Off_ GFSK_Average (High Channel)



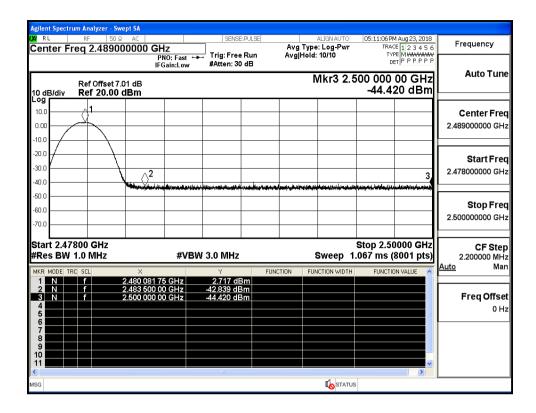
Restrict-band band-edge measurements_Hopping Off_π/4-DQPSK_PEAK (Low Channel)



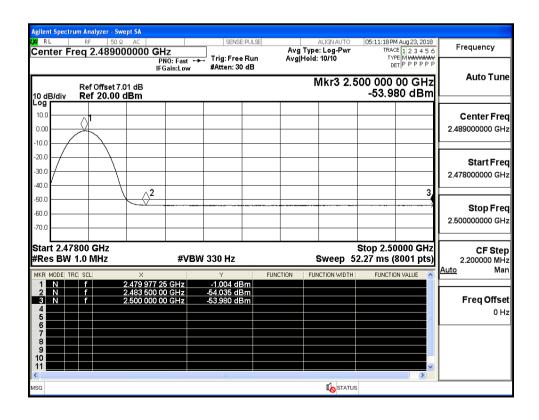
Restrict-band band-edge measurements_Hopping Off_π/4-DQPSK_Average (Low Channel)



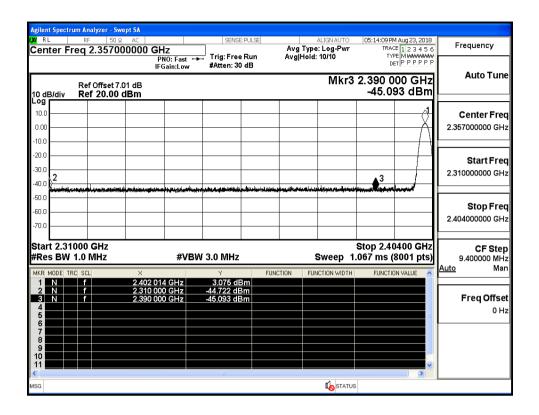
Restrict-band band-edge measurements_Hopping Off_π/4-DQPSK_PEAK (High Channel)



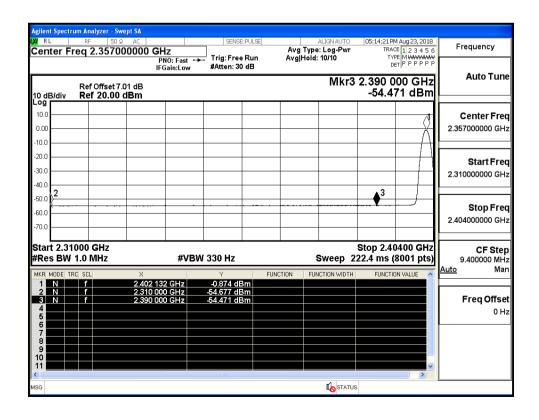
Restrict-band band-edge measurements_Hopping Off_π/4-DQPSK_Average (High Channel)



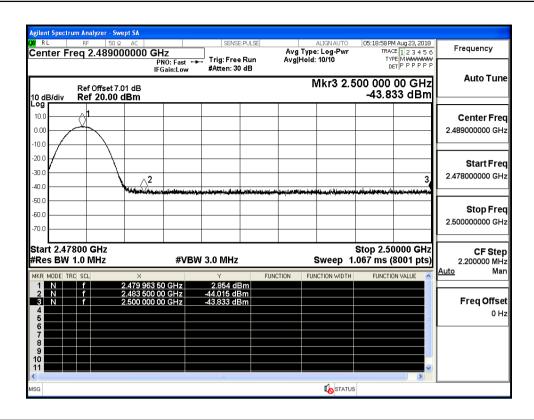
Restrict-band band-edge measurements_Hopping Off_8DPSK_PEAK (Low Channel)



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)

