Appendix A

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

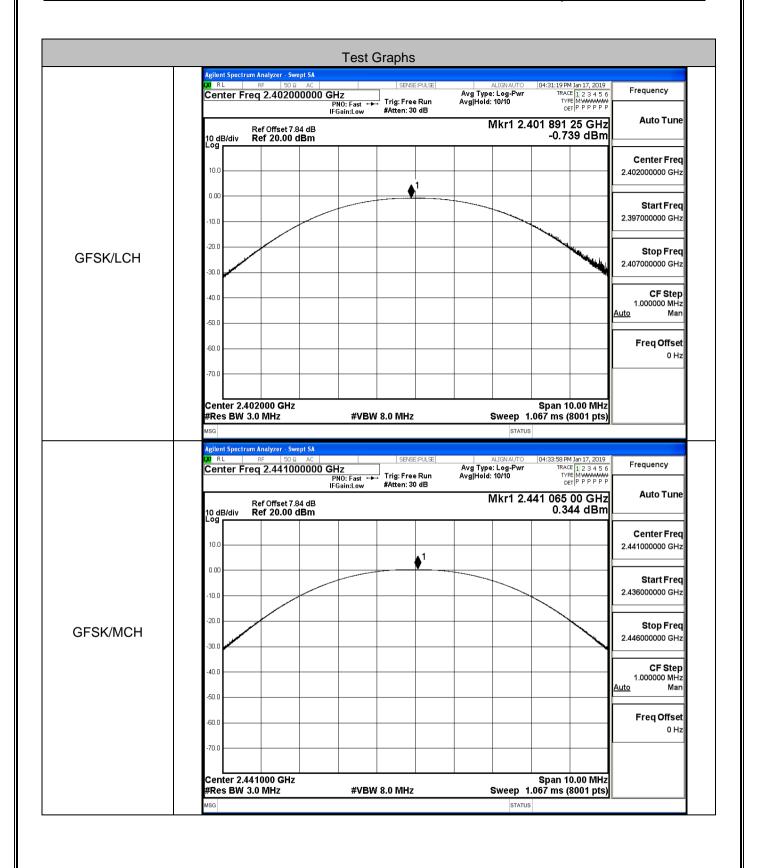
Product Name: Bluetooth Speaker Trade Mark: Aitkenson Test Model: B316

Environmental Conditions

Temperature:	24.8 ° C
Relative Humidity:	54.3%
ATM Pressure:	100.0 kPa
Test Engineer:	Jerry.Zeng
Supervised by:	Jayden.Zhuo

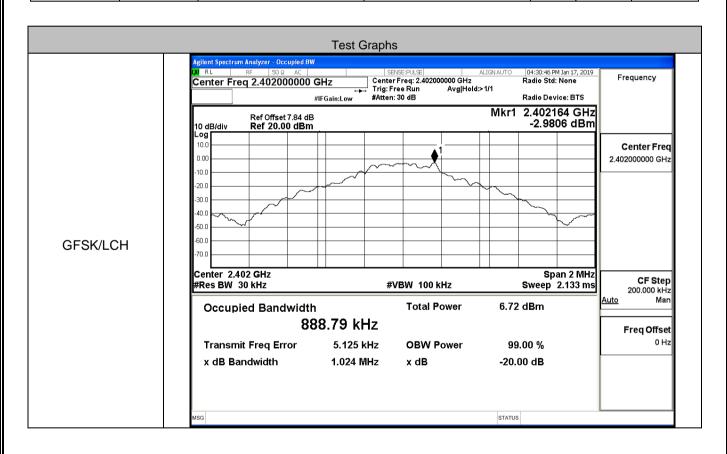
A.1 Maximum Conducted Peak Output Power

Mode	Channel.	Maximum Peak Output Power [dBm]	Limit [dBm]	Verdict
	LCH	-0.739	30	PASS
GFSK	MCH	0.344	30	PASS
	НСН	-0.716	30	PASS
	LCH	-1.305	21	PASS
π/4DQPSK	MCH	-0.239	21	PASS
	НСН	-1.411	21	PASS
	LCH	-1.068	21	PASS
8DPSK	OPSK MCH -0.127		21	PASS
	НСН	-1.258	21	PASS



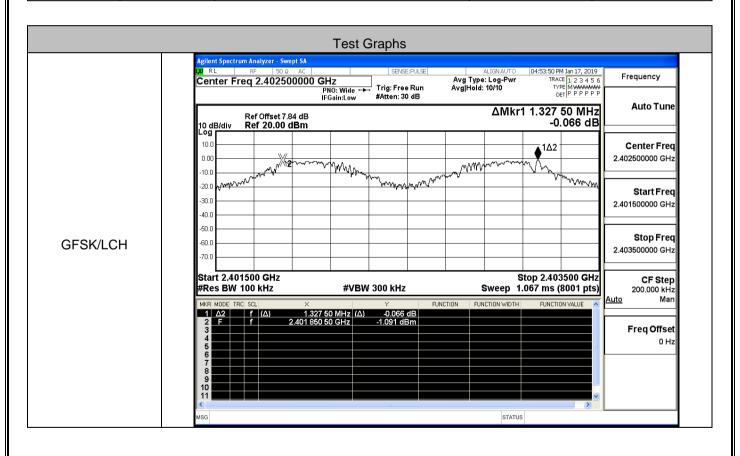
A.2 99% and 20dB Bandwidth

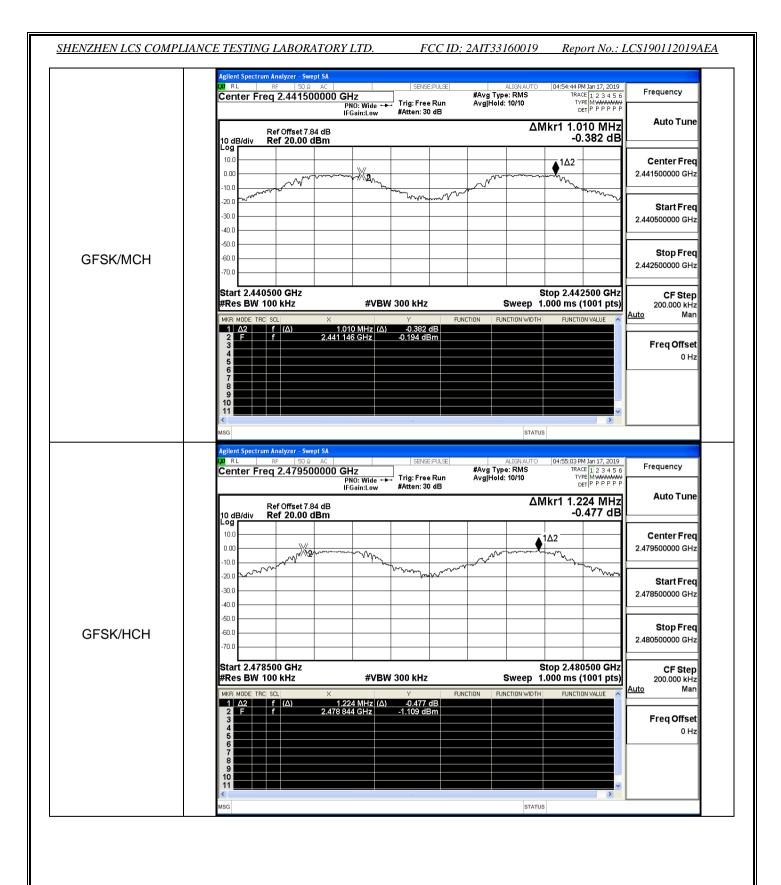
Mode	Channel.	99% Bandwidth [MHz]	20dB Bandwidth [MHz]	Limit [MHz]	Verdict
	LCH	0.88879	1.024	Not Specified	PASS
GFSK	MCH	0.89130	0.9706	Not Specified	PASS
	HCH	0.89456	1.016	Not Specified	PASS
	LCH	1.1795	1.309	Not Specified	PASS
π/4DQPSK	MCH	1.1771	1.311	Not Specified	PASS
	HCH	1.1772	1.312	Not Specified	PASS
	LCH	1.1945	1.298	Not Specified	PASS
8DPSK	MCH	1.1910	1.299	Not Specified	PASS
	HCH	1.1899	1.299	Not Specified	PASS

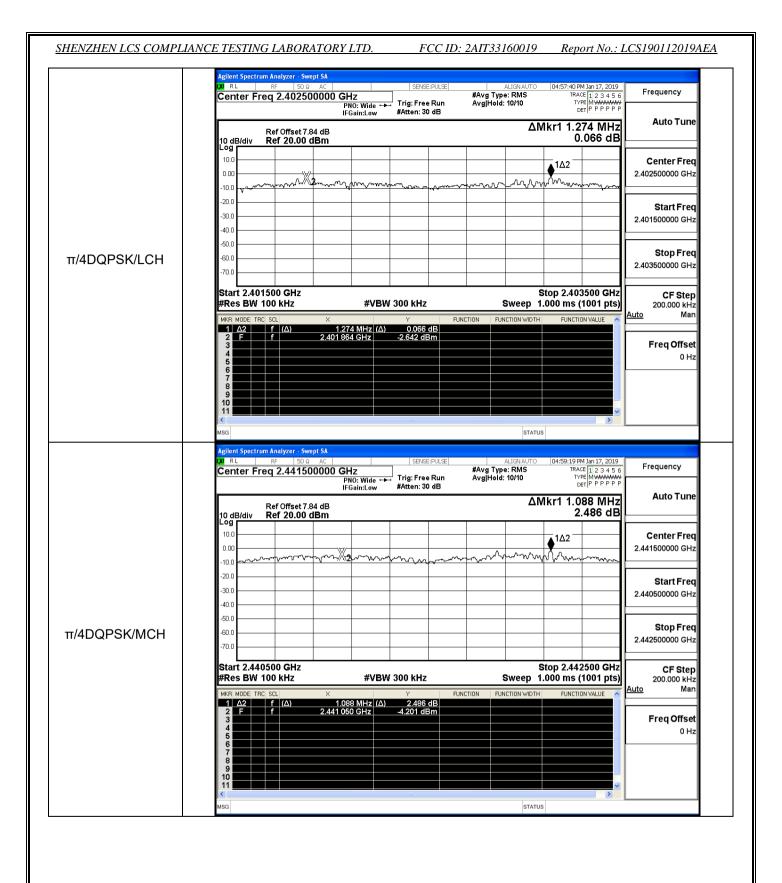


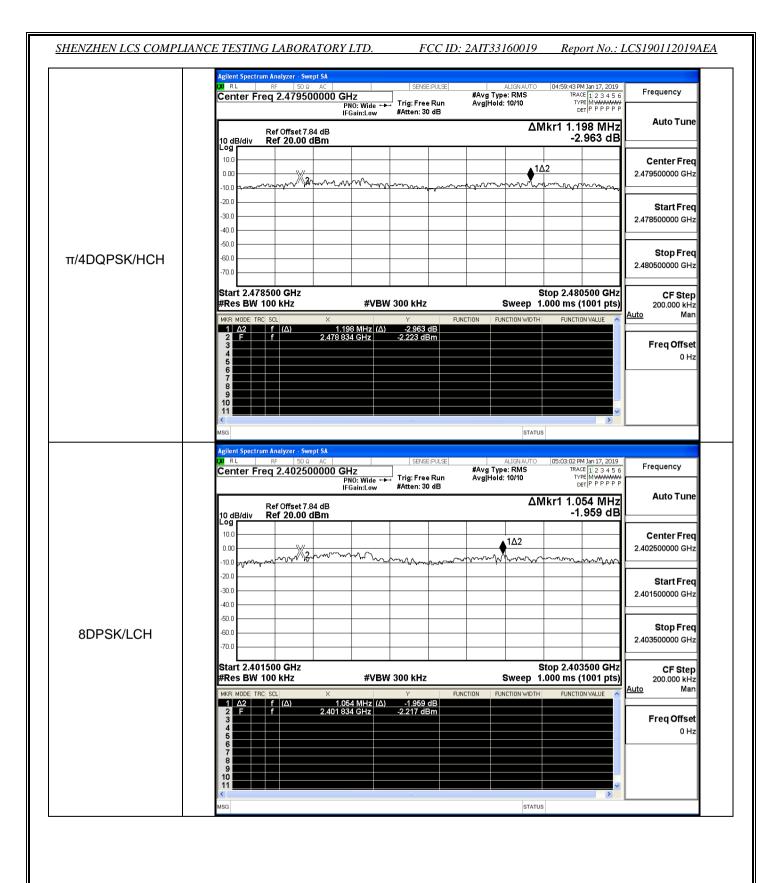
A.3 Carrier Frequency Separation

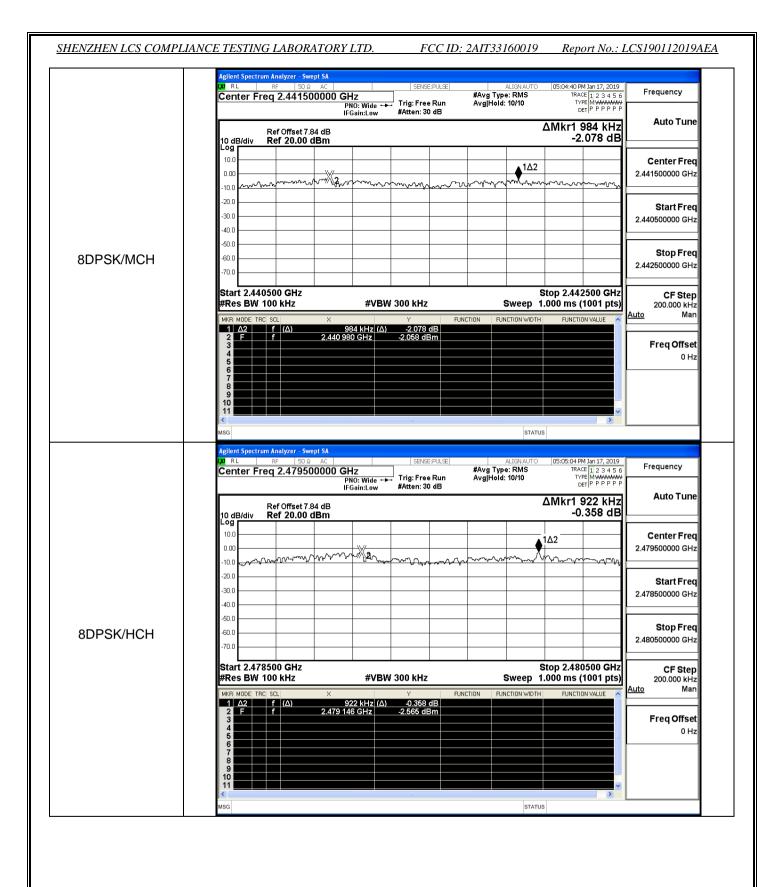
Mode	Channel.	Carrier Frequency Separation [MHz]	Limit [MHz]	Verdict
	LCH	1.327	0.683	PASS
GFSK	MCH	1.010	0.683	PASS
	HCH	1.224	0.683	PASS
	LCH	1.274	0.875	PASS
π/4DQPSK	MCH	1.088	0.875	PASS
	HCH	1.198	0.875	PASS
8DPSK	LCH	1.054	0.866	PASS
	PSK MCH 0.984		0.866	PASS
	HCH	0.922	0.866	PASS





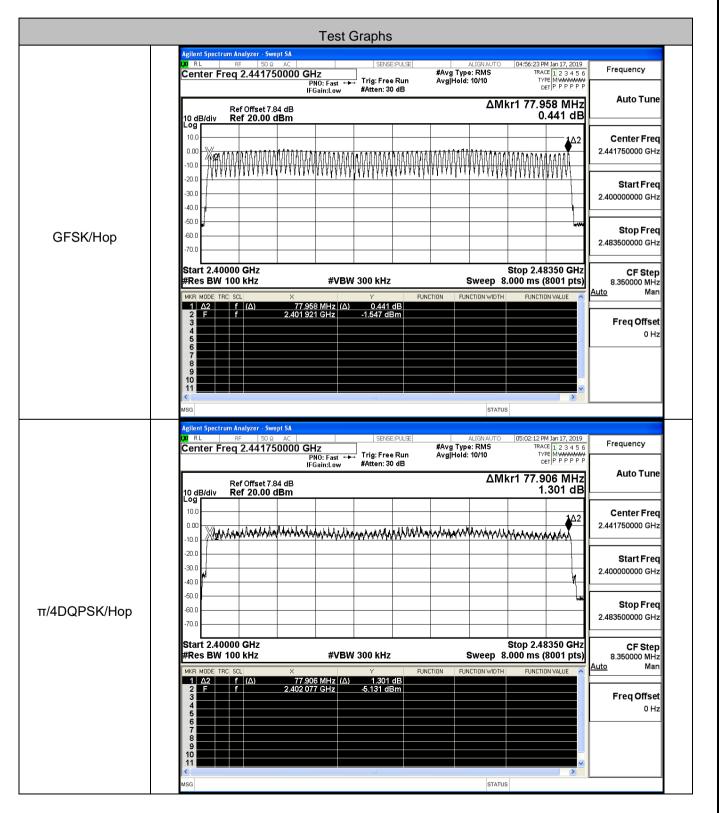


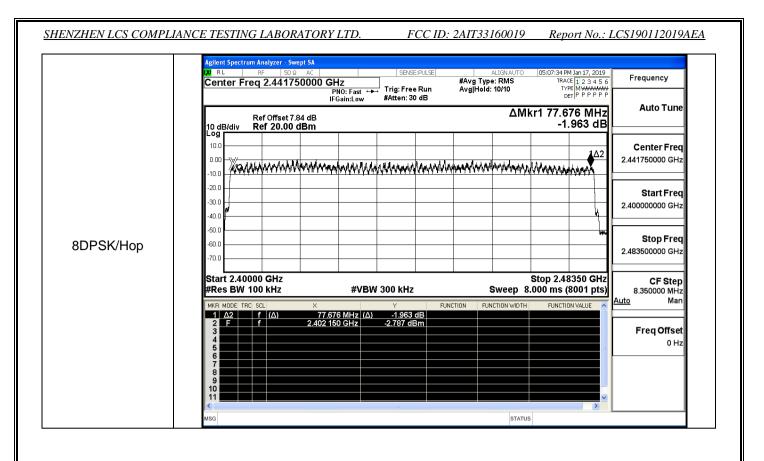




A.4 Hopping Channel Number

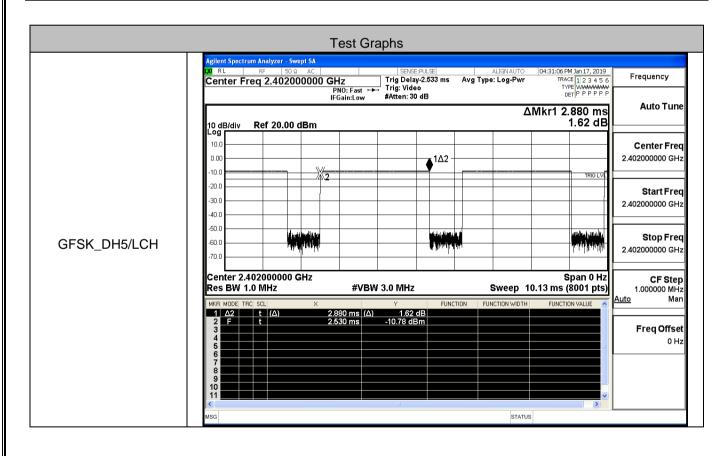
Mode	Channel.	Number of Hopping Channel [N]	Limit [N]	Verdict
GFSK	Нор	79	>=15	PASS
π/4DQPSK	Нор	79	>=15	PASS
8DPSK	Нор	79	>=15	PASS

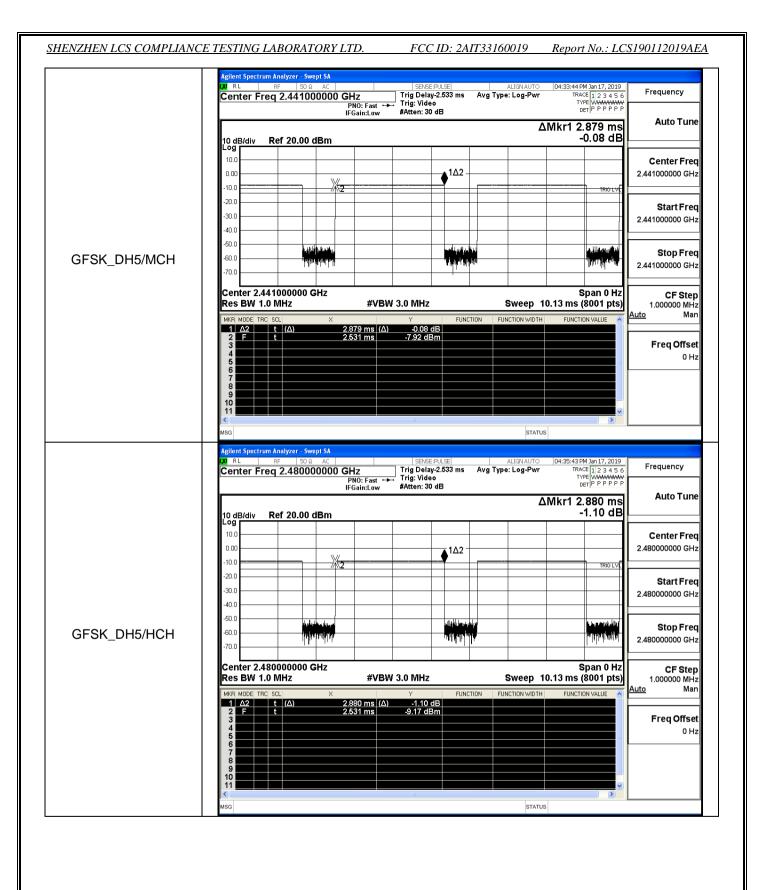


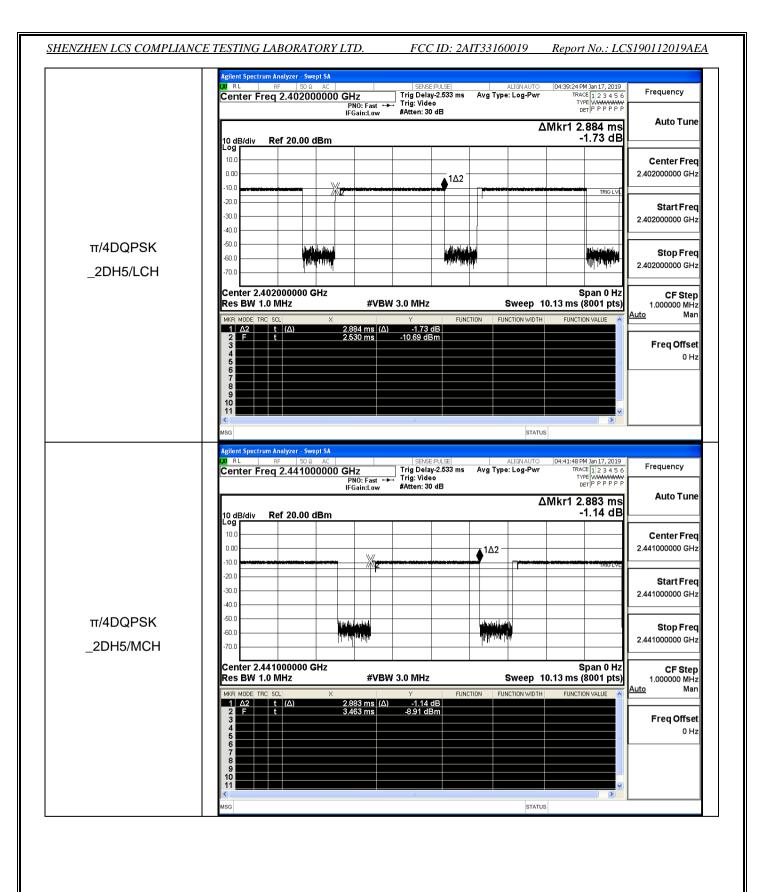


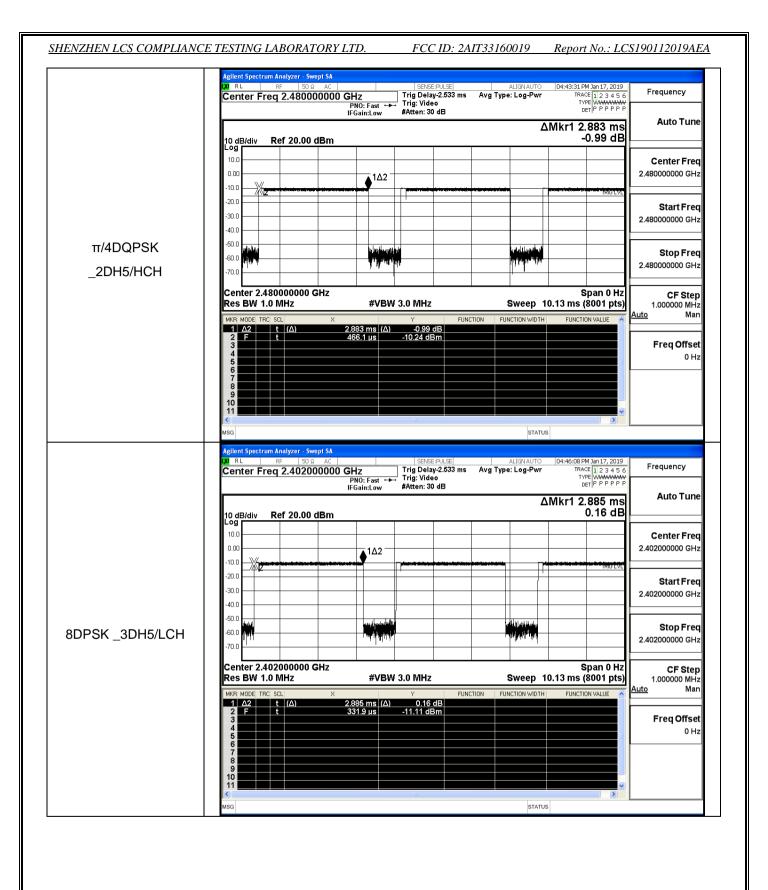
A.5 Dwell Time

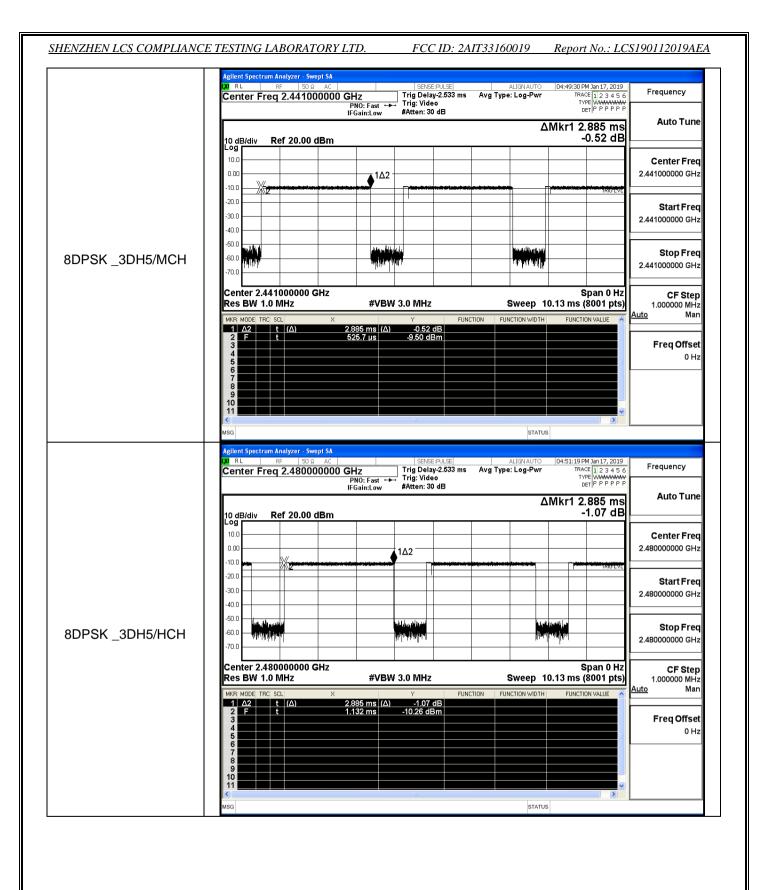
Mode	Packet	Channel	Burst Width [ms/hop/ch]	Total Hops[hop*ch]	Dwell Time[s]	Limit [s]	Verdict
	DH5	LCH	2.88	106.7	0.307	0.4	PASS
GFSK	DH5	MCH	2.88	106.7	0.307	0.4	PASS
	DH5 HCH		2.88	106.7	0.307	0.4	PASS
	2DH5	LCH	2.88	106.7	0.307	0.4	PASS
π/4DQPSK	2DH5	MCH	2.88	106.7	0.307	0.4	PASS
	2DH5	HCH	2.88	106.7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





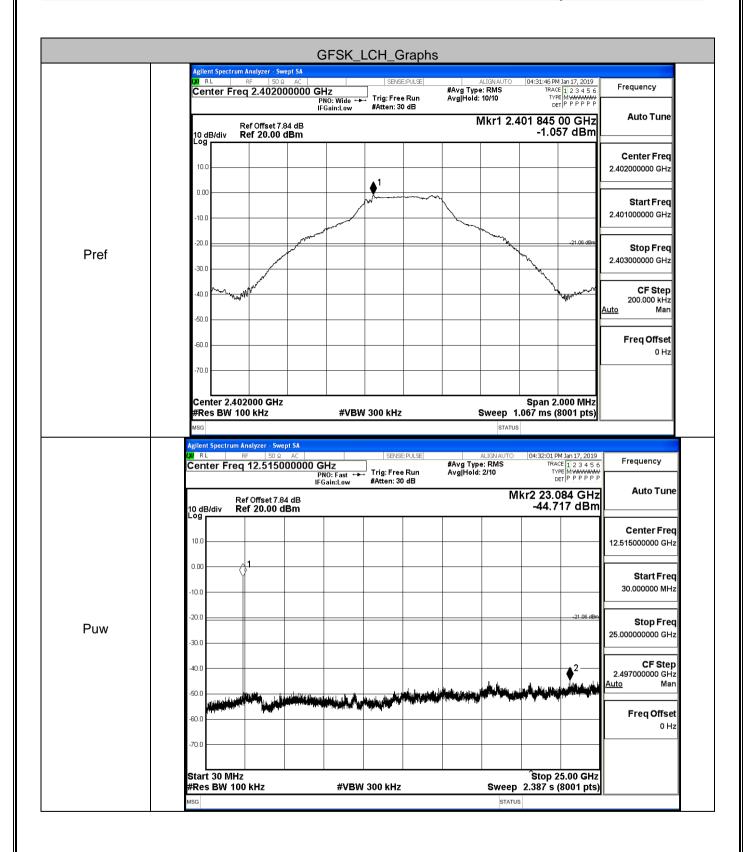


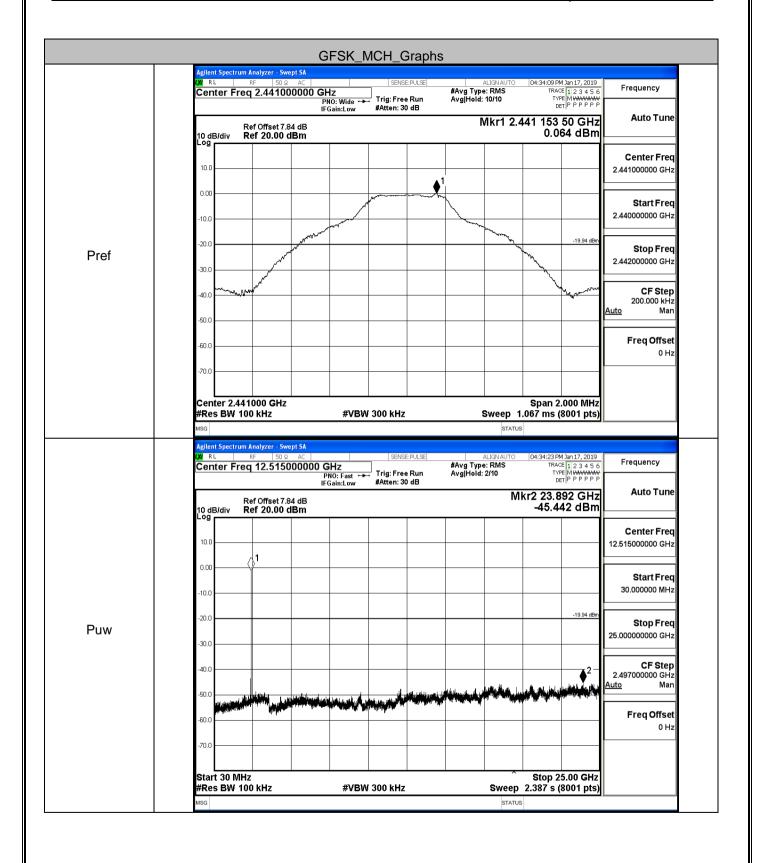


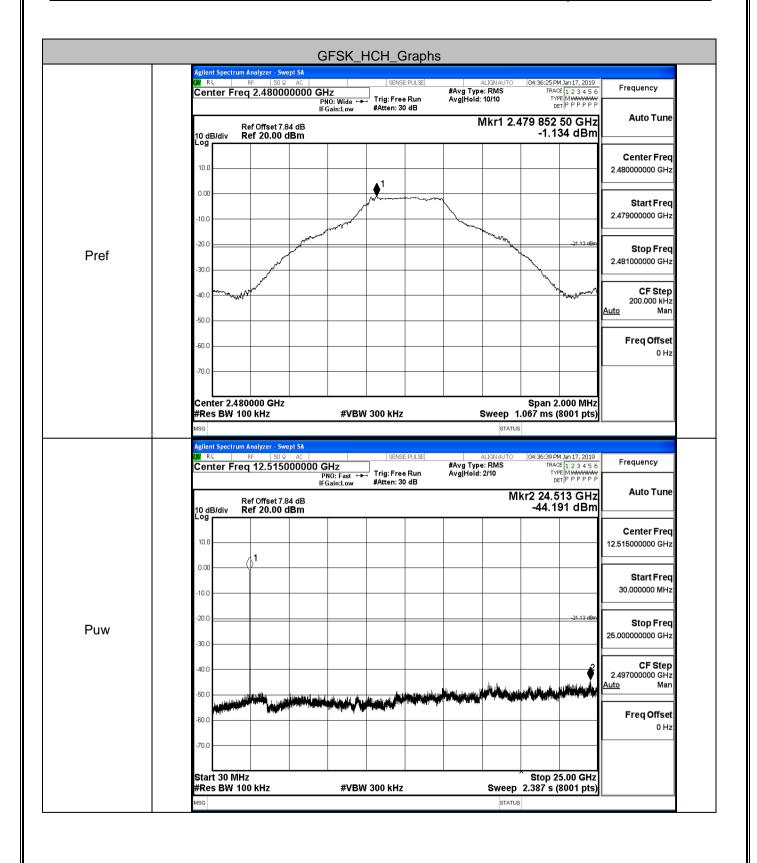


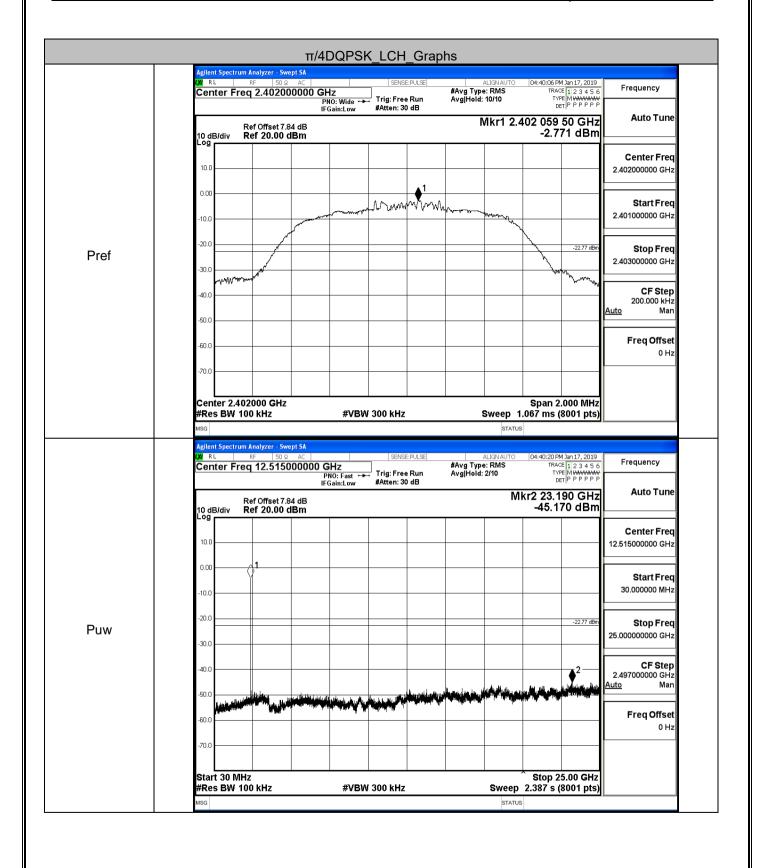
A.6 RF Conducted Spurious Emissions

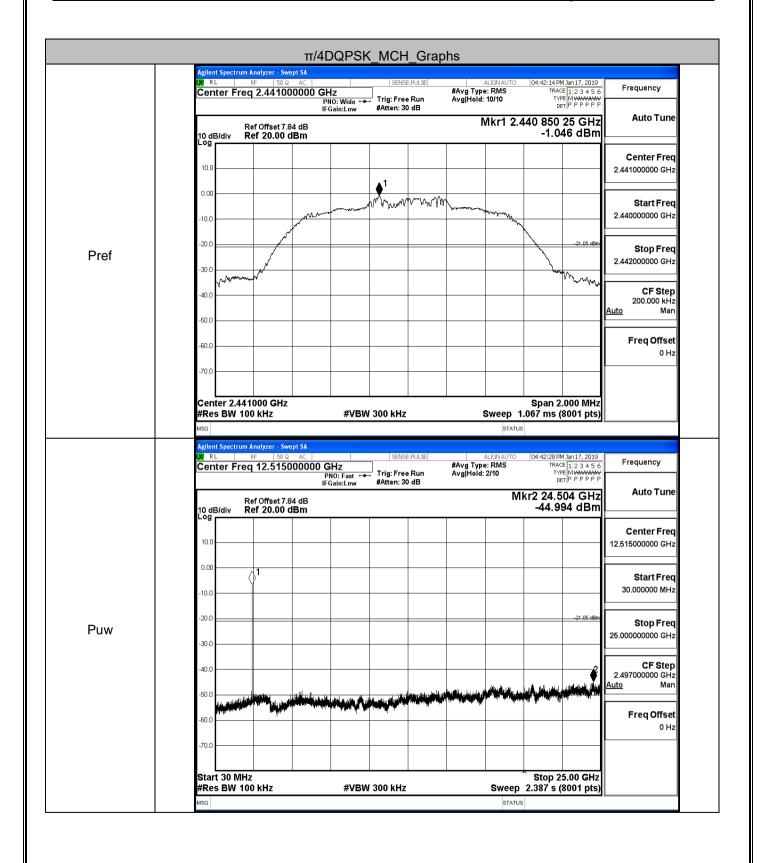
Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
	LCH	-1.057	-44.717	-21.057	PASS
GFSK	MCH	0.064	-45.442	-19.936	PASS
	НСН	-1.134	-44.191	-21.134	PASS
	LCH	-2.771	-45.170	-22.771	PASS
π/4DQPSK	MCH	-1.046	-44.994	-21.046	PASS
	НСН	-2.345	-45.044	-22.345	PASS
	LCH	-2.02	-44.814	-22.020	PASS
8DPSK	MCH	-1.214	-44.642	-21.214	PASS
	HCH	-2.161	-43.968	-22.161	PASS

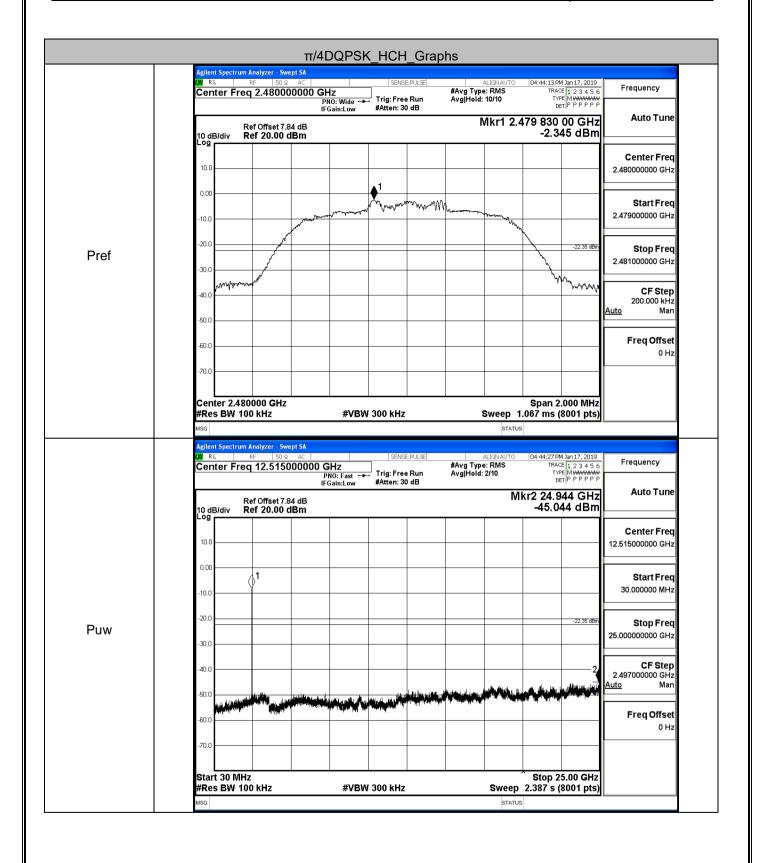


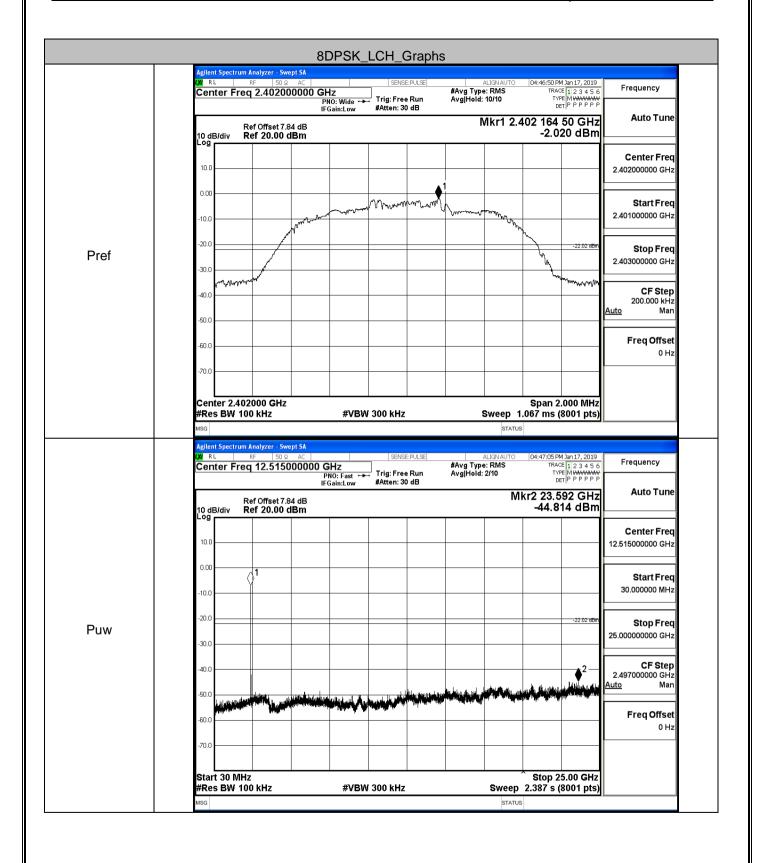


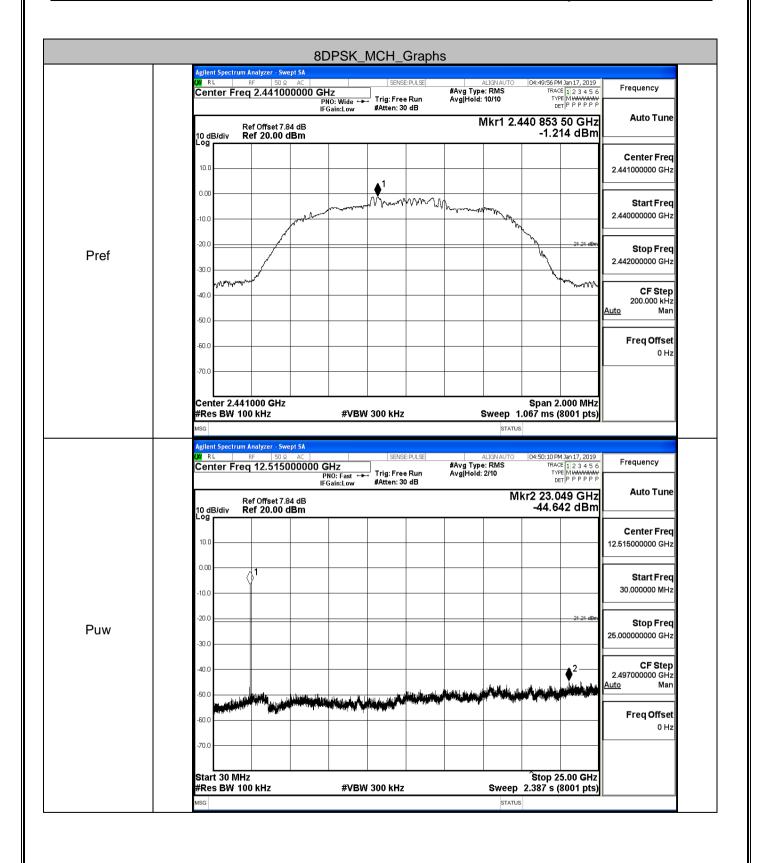


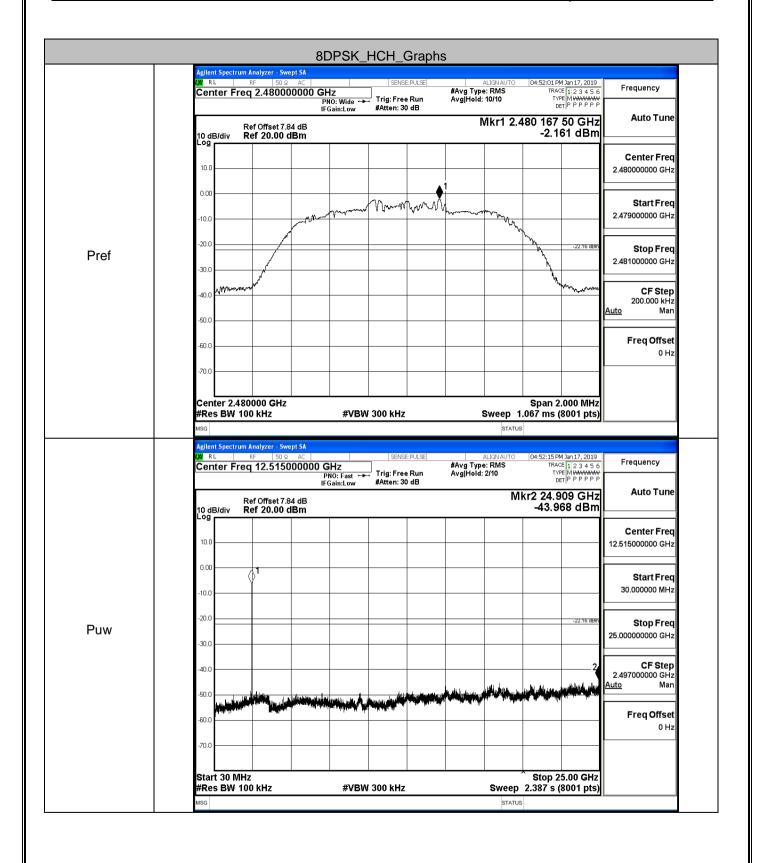






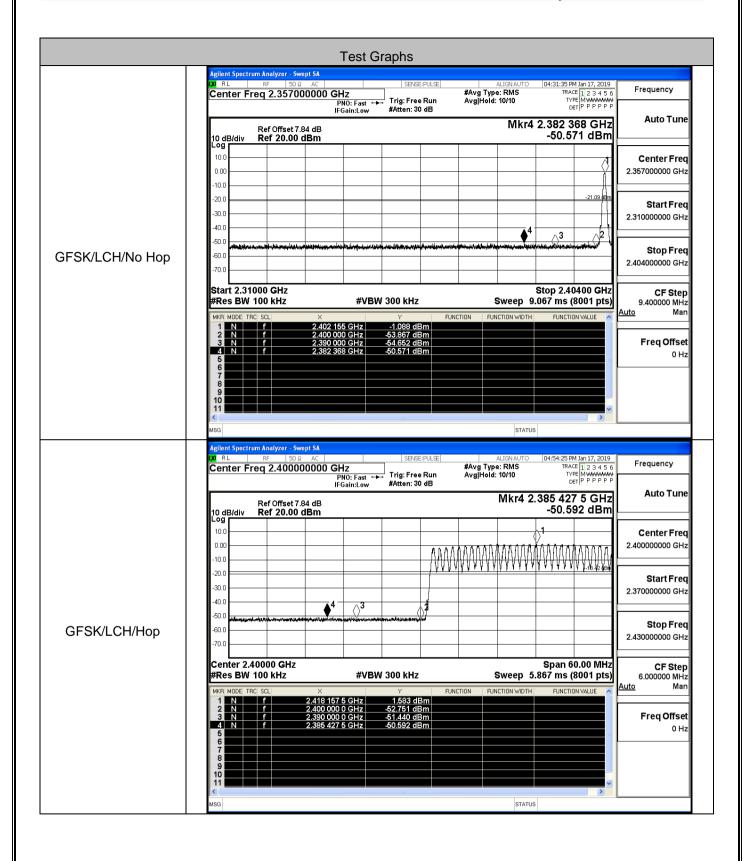


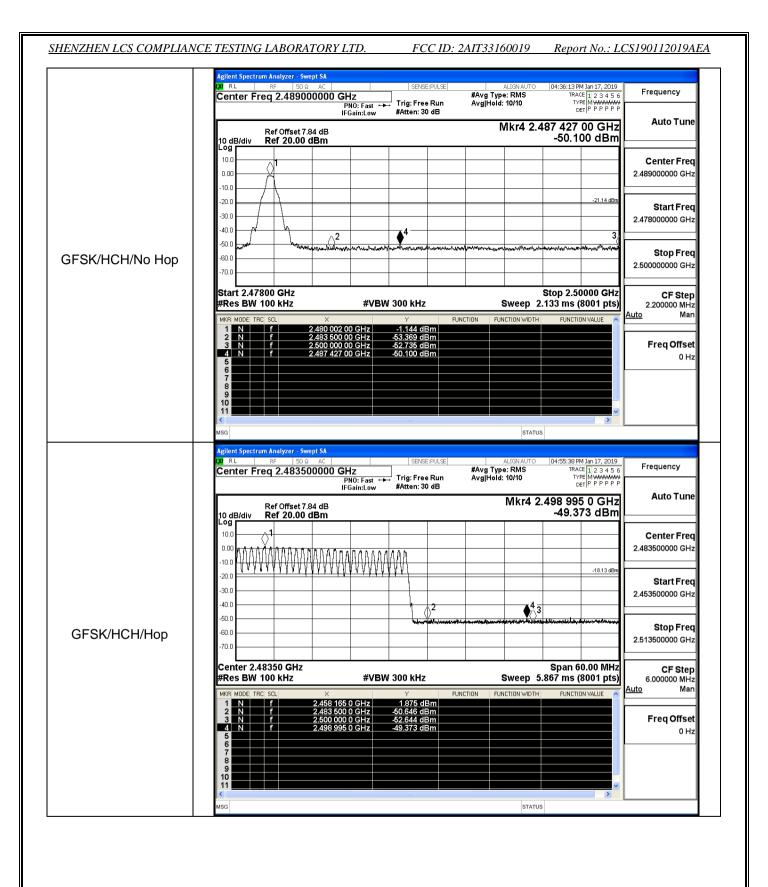


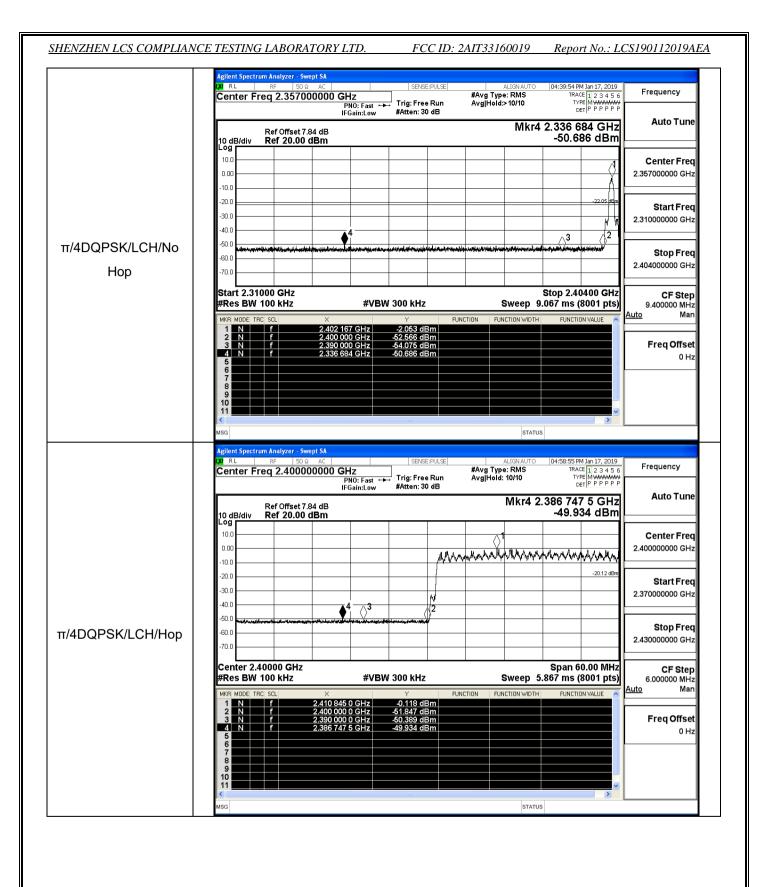


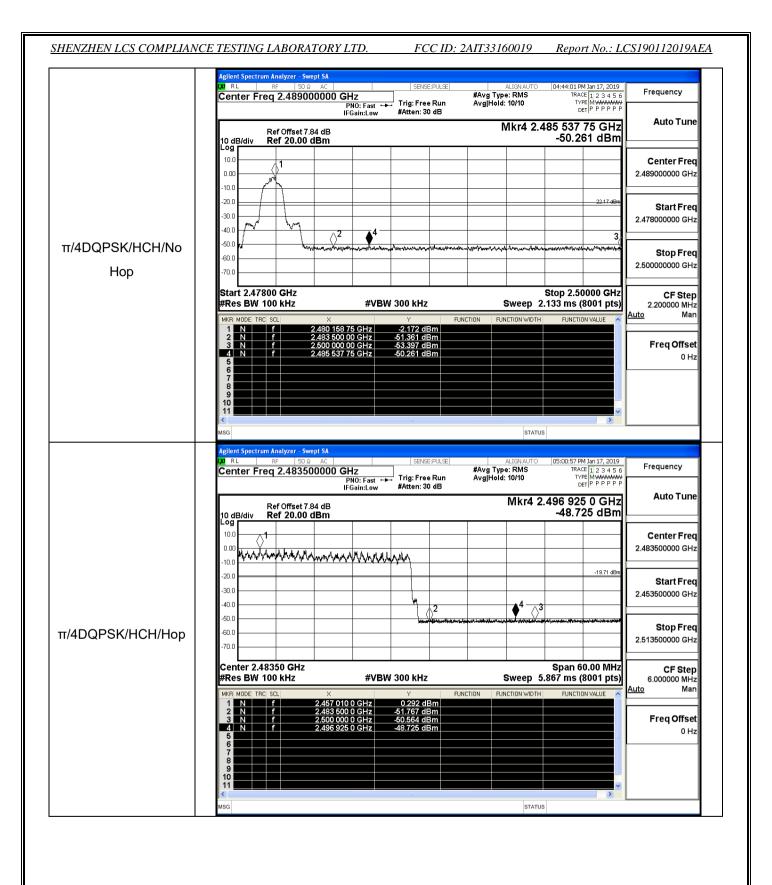
A.7 Band-edge for RF Conducted Emissions

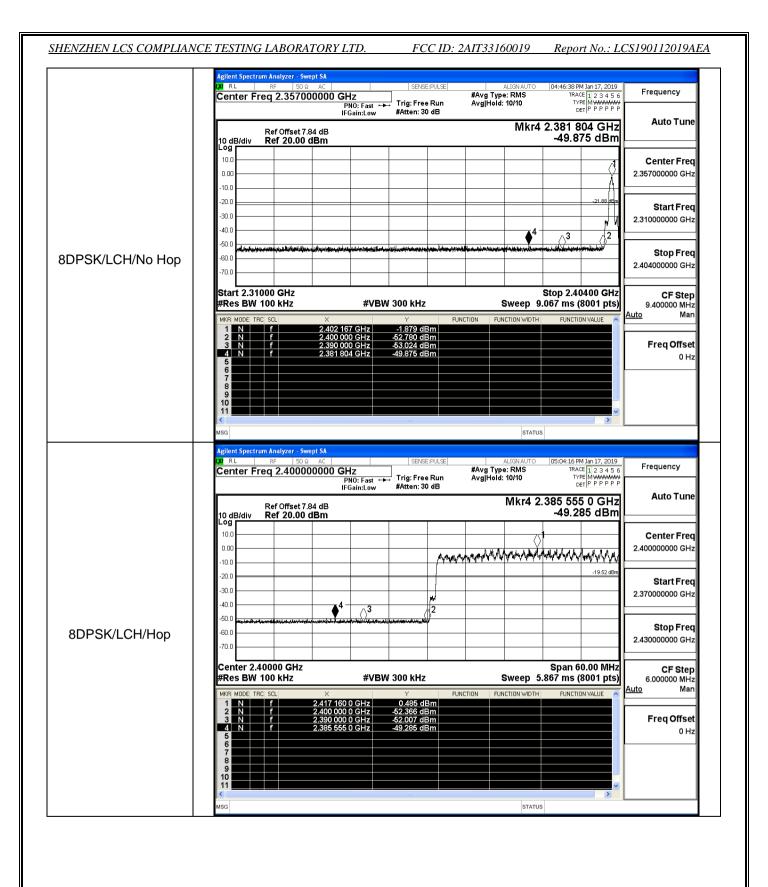
Mode	Channel	Carrier Frequency [MHz]	Carrier Power [dBm]	Frequency Hopping	Max Spurious Level [dBm]	Limit [dBm]	Verdict	
			-1.088	Off	-50.571	-21.09	PASS	
2-21/	LCH	2402	1.583	On	-50.592	-18.42	PASS	
GFSK	НСН	2480	-1.144	Off	-50.100	-21.14	PASS	
			1.875	On	-49.373	-18.13	PASS	
	LCH			-2.053	Off	-50.686	-22.05	PASS
		2402	-0.118	On	-49.934	-20.12	PASS	
π/4DQPSK	нсн		-2.172	Off	-50.261	-22.17	PASS	
		HCH 2480	0.292	On	-48.725	-19.71	PASS	
			-1.879	Off	-49.875	-21.88	PASS	
	LCH	2402	0.485	On	-49.285	-19.52	PASS	
8DPSK			-2.191	Off	-50.029	-22.19	PASS	
	HCH	2480	0.410	On	-49.224	-19.59	PASS	

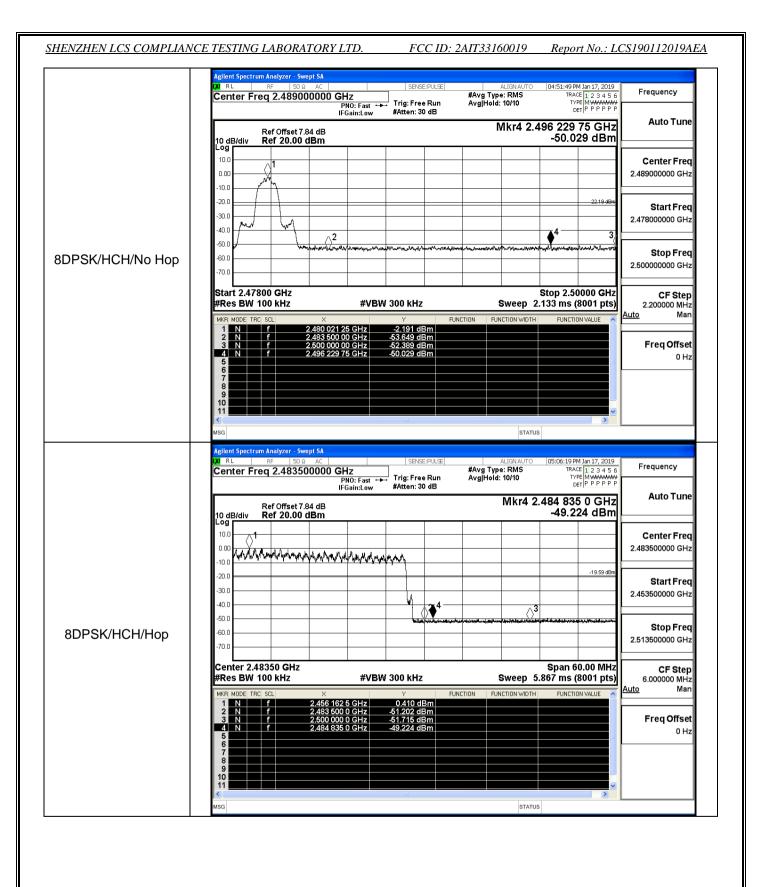






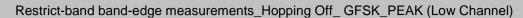


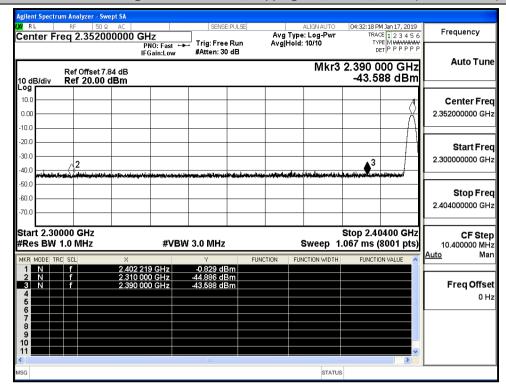




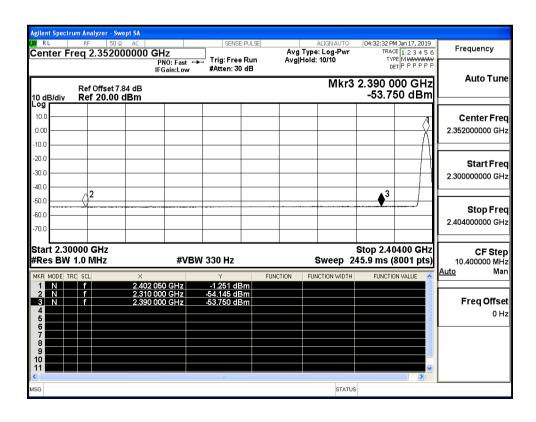
A.8 Restrict-band band-edge measurements

Test Mode	Hopping	Freq.	Power [dBm]	Gain	Ground Factor	E [dBuV/m]	Detector	Limit [dBuV/m]	Verdict
	Off	2310.0	-44.89	2.0	0	52.37	PEAK	74	PASS
	Off	2310.0	-54.15	2.0	0	43.11	AV	54	PASS
	Off	2390.0	-43.59	2.0	0	53.67	PEAK	74	PASS
	Off	2390.0	-53.75	2.0	0	43.51	AV	54	PASS
GFSK	Off	2483.5	-42.73	2.0	0	54.53	PEAK	74	PASS
	Off	2483.5	-53.54	2.0	0	43.71	AV	54	PASS
	Off	2500.0	-43.06	2.0	0	54.19	PEAK	74	PASS
	Off	2500.0	-53.46	2.0	0	43.80	AV	54	PASS
	Off	2310.0	-44.63	2.0	0	52.63	PEAK	74	PASS
	Off	2310.0	-54.11	2.0	0	43.15	AV	54	PASS
	Off	2390.0	-42.91	2.0	0	54.35	PEAK	74	PASS
	Off	2390.0	-53.81	2.0	0	43.45	AV	54	PASS
π/4DQPSK	Off	2483.5	-42.65	2.0	0	54.61	PEAK	74	PASS
	Off	2483.5	-53.42	2.0	0	43.84	AV	54	PASS
	Off	2500.0	-43.81	2.0	0	53.45	PEAK	74	PASS
	Off	2500.0	-53.50	2.0	0	43.75	AV	54	PASS
	Off	2310.0	-43.73	2.0	0	53.53	PEAK	74	PASS
	Off	2310.0	-54.11	2.0	0	43.15	AV	54	PASS
	Off	2390.0	-44.33	2.0	0	52.93	PEAK	74	PASS
	Off	2390.0	-53.75	2.0	0	43.51	AV	54	PASS
8DPSK	Off	2483.5	-42.97	2.0	0	54.28	PEAK	74	PASS
	Off	2483.5	-53.35	2.0	0	43.91	AV	54	PASS
	Off	2500.0	-43.91	2.0	0	53.34	PEAK	74	PASS
	Off	2500.0	-53.35	2.0	0	43.90	AV	54	PASS

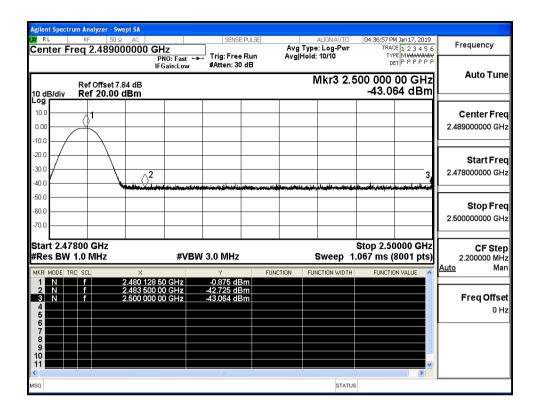




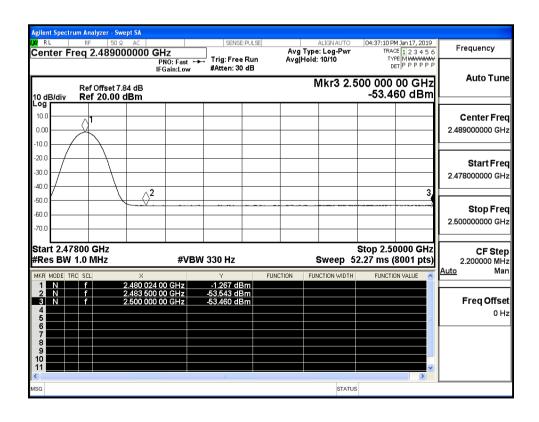
Restrict-band band-edge measurements_Hopping Off_ GFSK_Average (Low Channel)



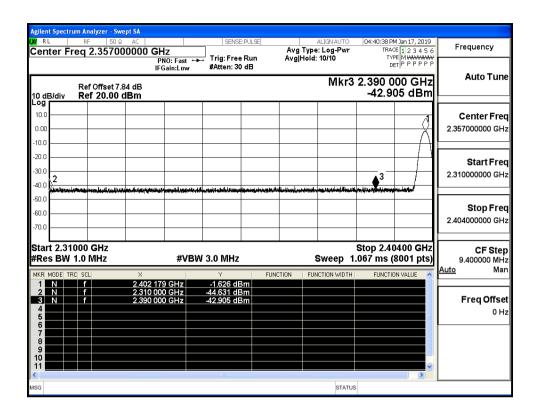
Restrict-band band-edge measurements_Hopping Off_ GFSK_PEAK (High Channel)



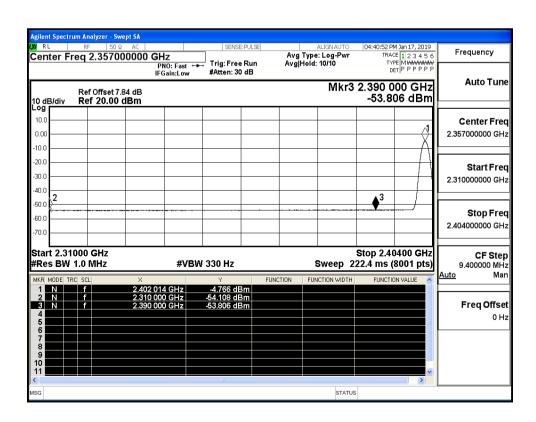
Restrict-band band-edge measurements_Hopping Off_ GFSK_Average (High Channel)



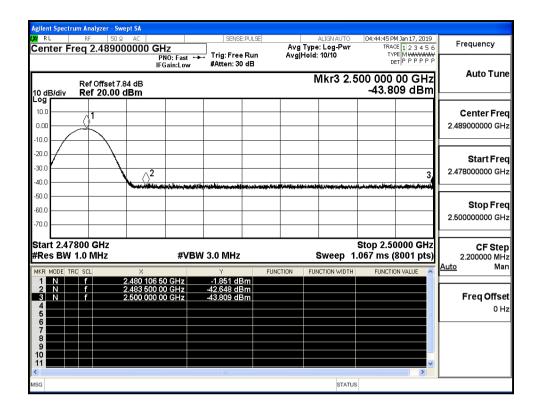
Restrict-band band-edge measurements_Hopping Off_π/4-DQPSK_PEAK (Low Channel)



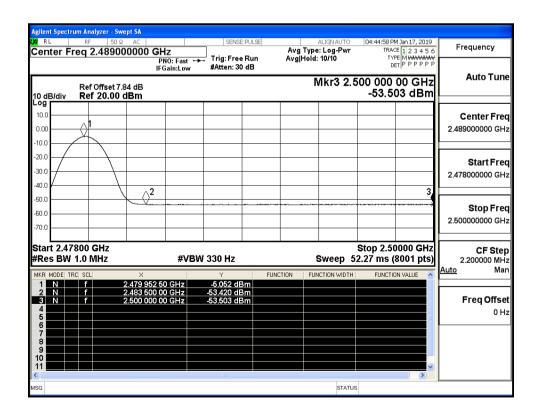
Restrict-band band-edge measurements_Hopping Off_π/4-DQPSK_Average (Low Channel)



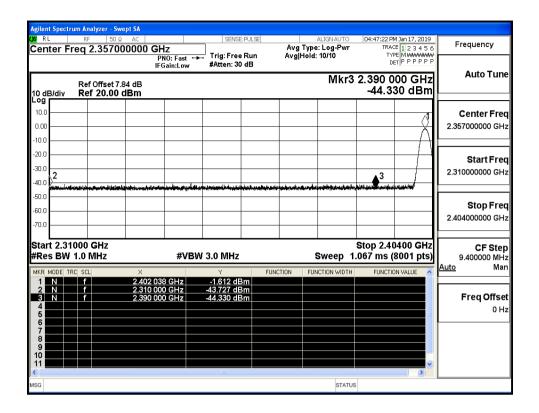
Restrict-band band-edge measurements_Hopping Off_π/4-DQPSK_PEAK (High Channel)



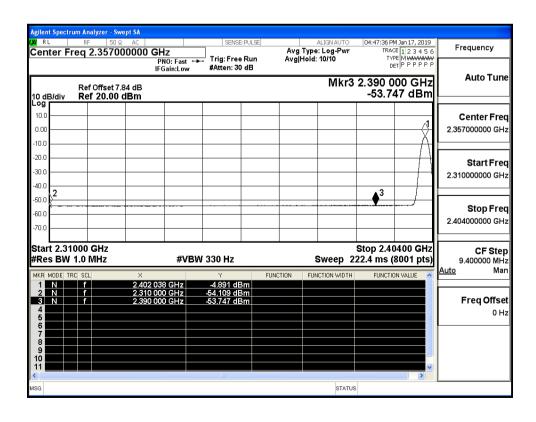
Restrict-band band-edge measurements_Hopping Off_π/4-DQPSK_Average (High Channel)

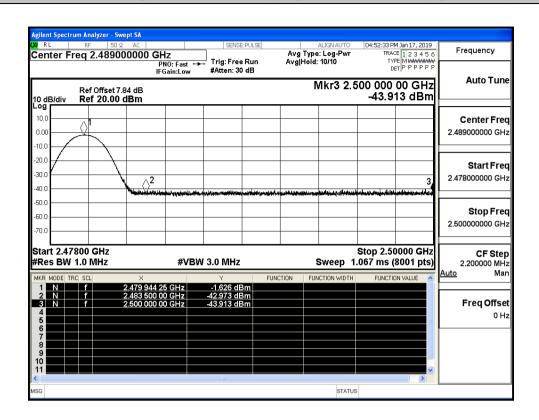


Restrict-band band-edge measurements_Hopping Off_8DPSK_PEAK (Low Channel)



Restrict-band band-edge measurements_Hopping Off_8DPSK_Average (Low Channel)





Restrict-band band-edge measurements_Hopping Off_8DPSK_Average (High Channel)

