Appendix A

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

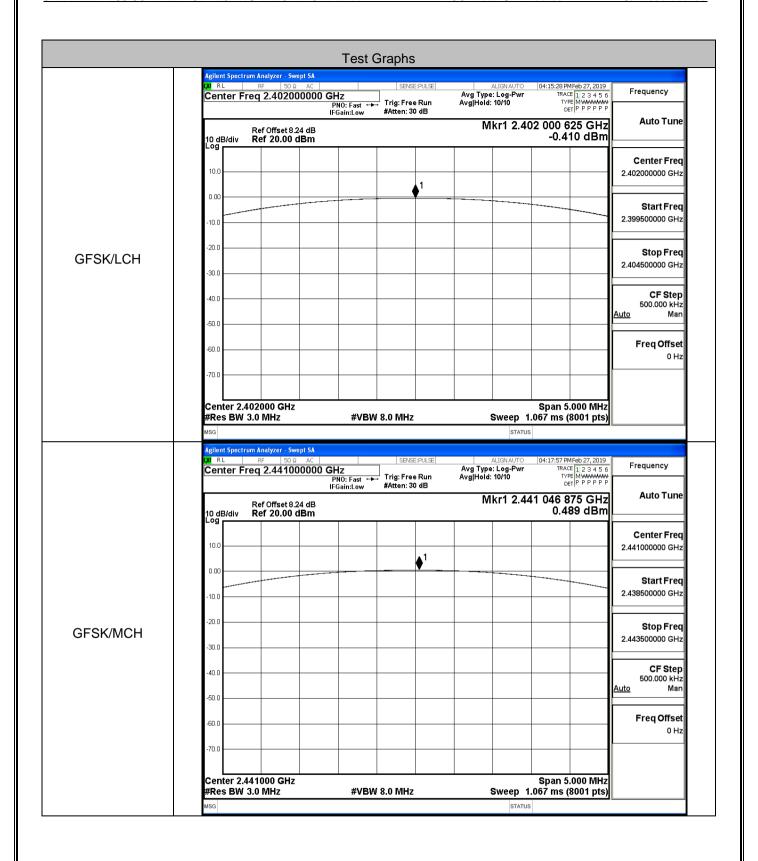
Product Name: Kai Bluetooth® Earbuds
Trade Mark: Gemline
Test Model: 100253-001B

Environmental Conditions

Temperature:	22.8 ° C
Relative Humidity:	53.3%
ATM Pressure:	100.0 kPa
Test Engineer:	JERRY.Zeng
Supervised by:	Jayden.Zhuo

A.1 Maximum Conducted Peak Output Power

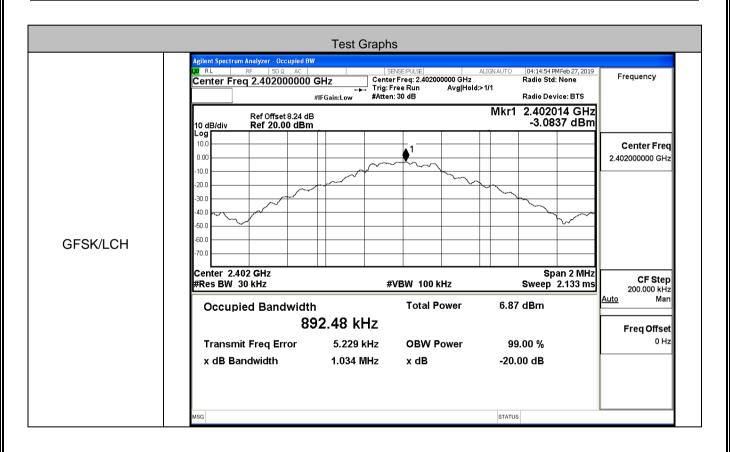
Mode	Channel.	Maximum Peak Output Power [dBm]	Limit [dBm]	Verdict
	LCH	-0.410	21	PASS
GFSK	MCH	0.489	21	PASS
	НСН	-0.900	21	PASS
	LCH	-0.921	21	PASS
π/4DQPSK	MCH	-0.066	21	PASS
	НСН	-1.480	21	PASS
	LCH	-0.784	21	PASS
8DPSK	MCH	0.071	21	PASS
	HCH	-1.315	21	PASS



STATUS

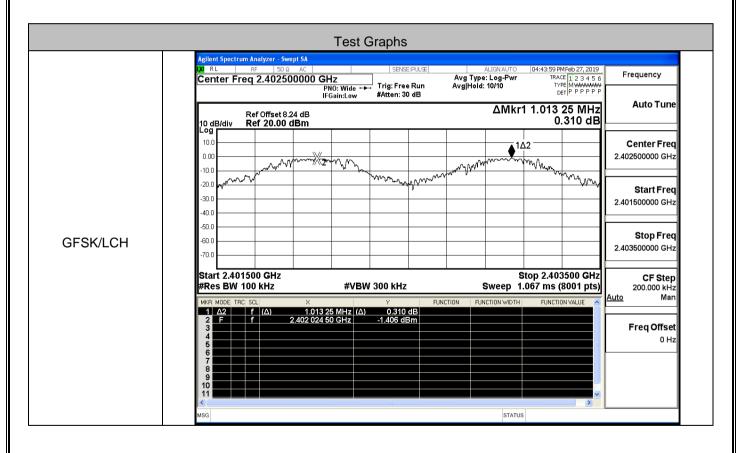
A.2 99% and 20dB Bandwidth

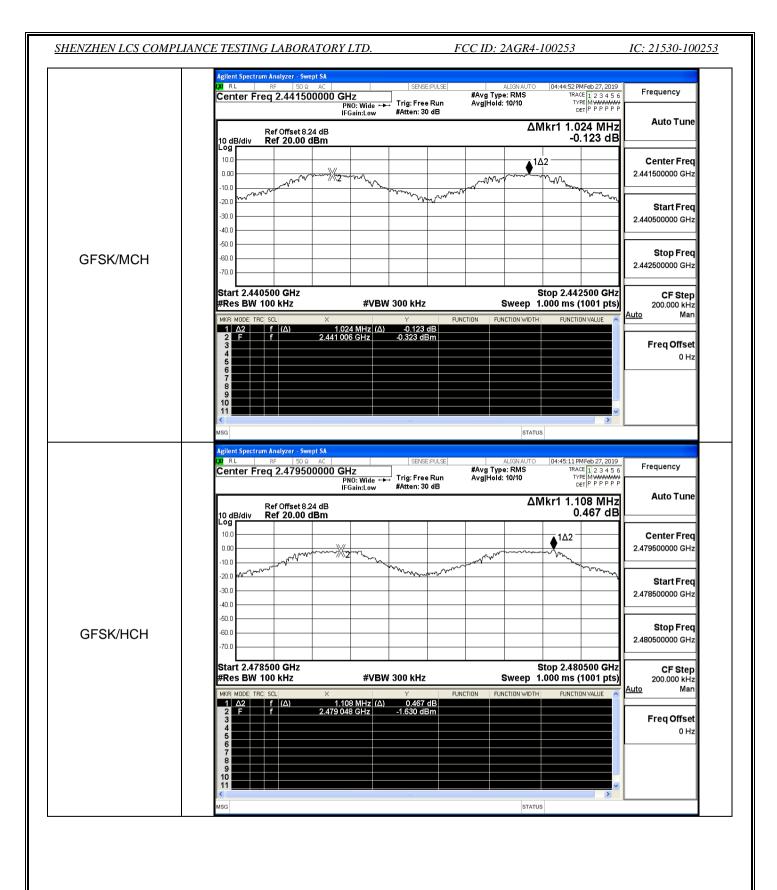
Mode	Channel.	99% Bandwidth [MHz]	20dB Bandwidth [MHz]	Limit [MHz]	Verdict
	LCH	0.89248	1.034	Not Specified	PASS
GFSK	MCH	0.89120	1.016	Not Specified	PASS
	НСН	0.89671	1.024	Not Specified	PASS
	LCH	1.1792	1.293	Not Specified	PASS
π/4DQPSK	MCH	1.1748	1.310	Not Specified	PASS
	HCH	1.1734	1.306	Not Specified	PASS
	LCH	1.1922	1.296	Not Specified	PASS
8DPSK	MCH	1.1933	1.304	Not Specified	PASS
	HCH	1.1879	1.302	Not Specified	PASS

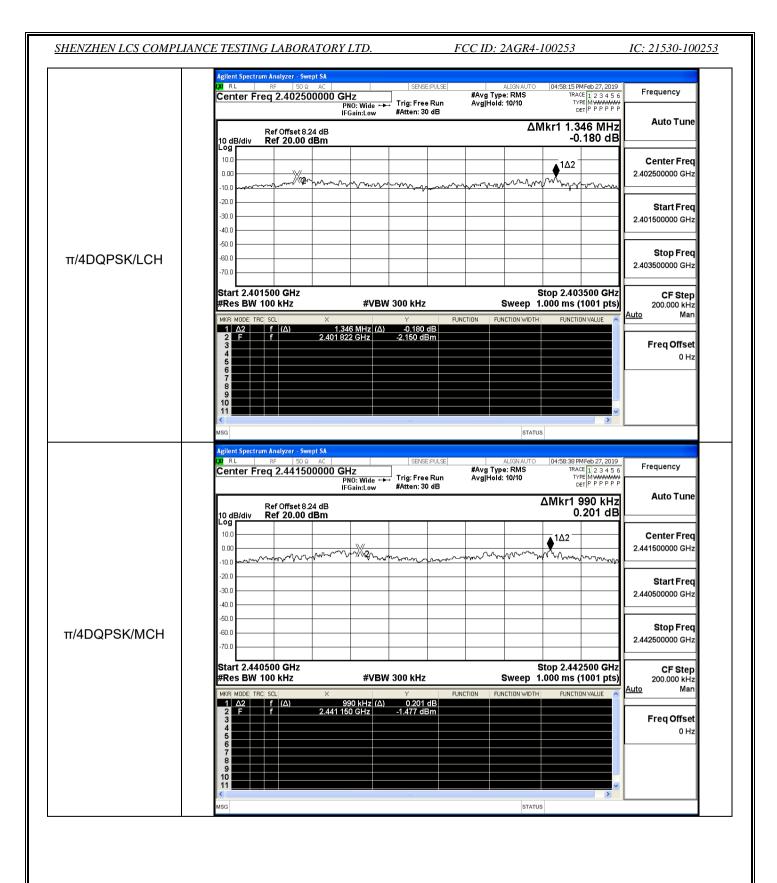


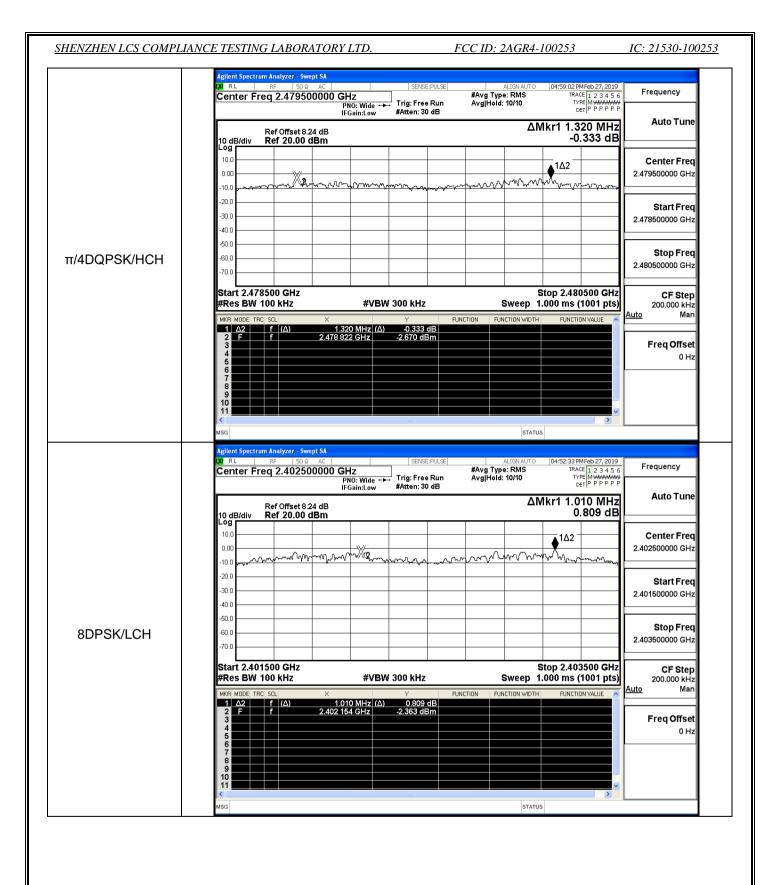
A.3 Carrier Frequency Separation

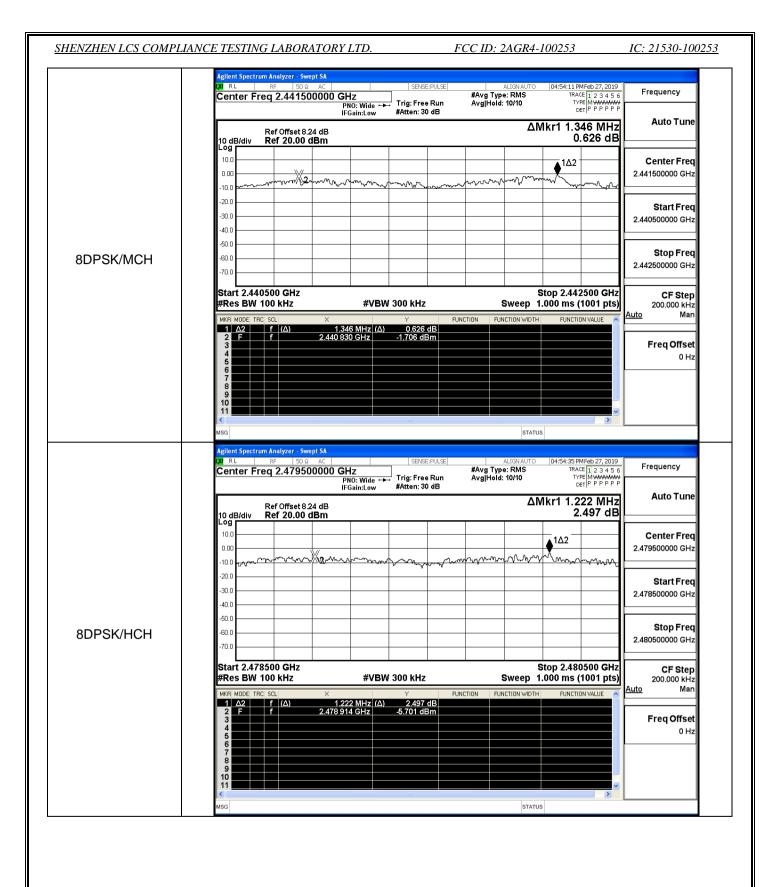
Mode	Channel.	Carrier Frequency Separation [MHz]	Limit [MHz]	Verdict
	LCH	1.013	0.689	PASS
GFSK	MCH	1.024	0.689	PASS
	HCH	1.108	0.689	PASS
	LCH	1.346	0.873	PASS
π/4DQPSK	MCH	0.990	0.873	PASS
	НСН	1.320	0.873	PASS
8DPSK	LCH	1.010	0.869	PASS
	PSK MCH 1.346		0.869	PASS
	HCH	1.222	0.869	PASS





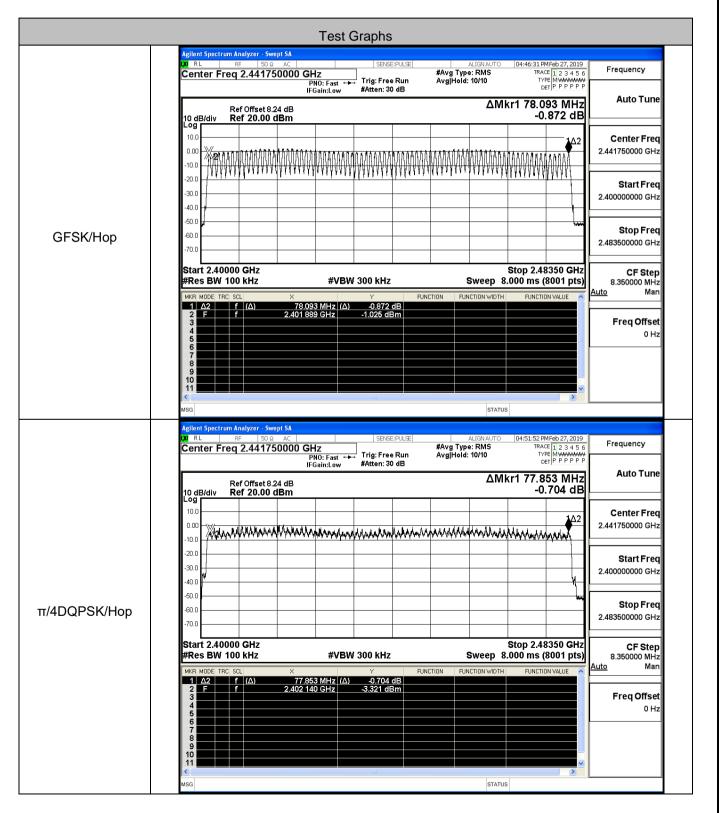






A.4 Hopping Channel Number

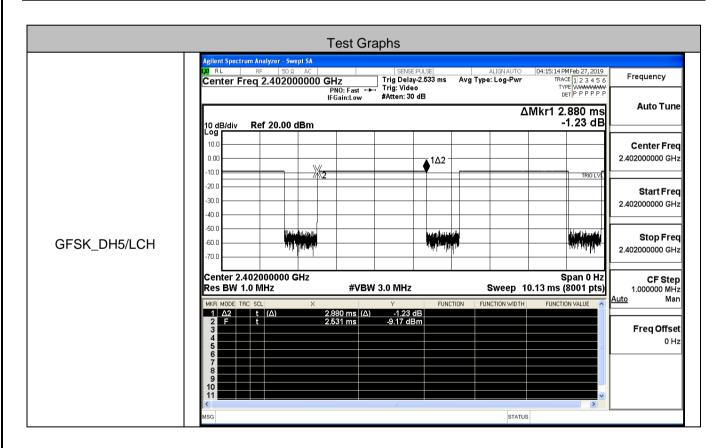
Mode	Channel.	Number of Hopping Channel [N]	Limit [N]	Verdict
GFSK	Нор	79	>=15	PASS
π/4DQPSK	Нор	79	>=15	PASS
8DPSK	Нор	79	>=15	PASS

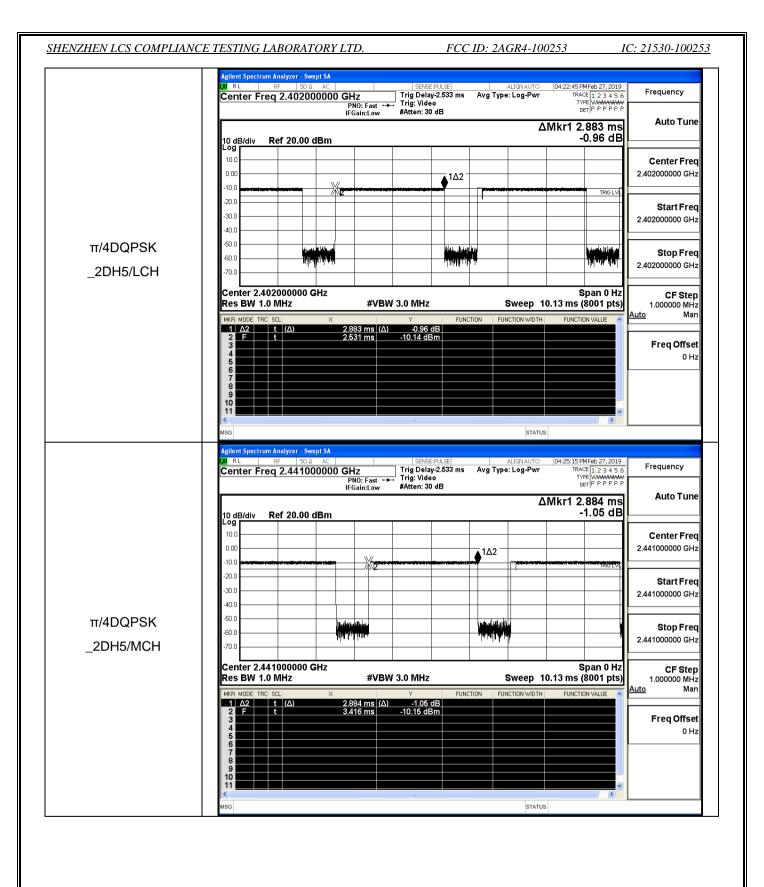


Page 17 of 47

A.5 Dwell Time

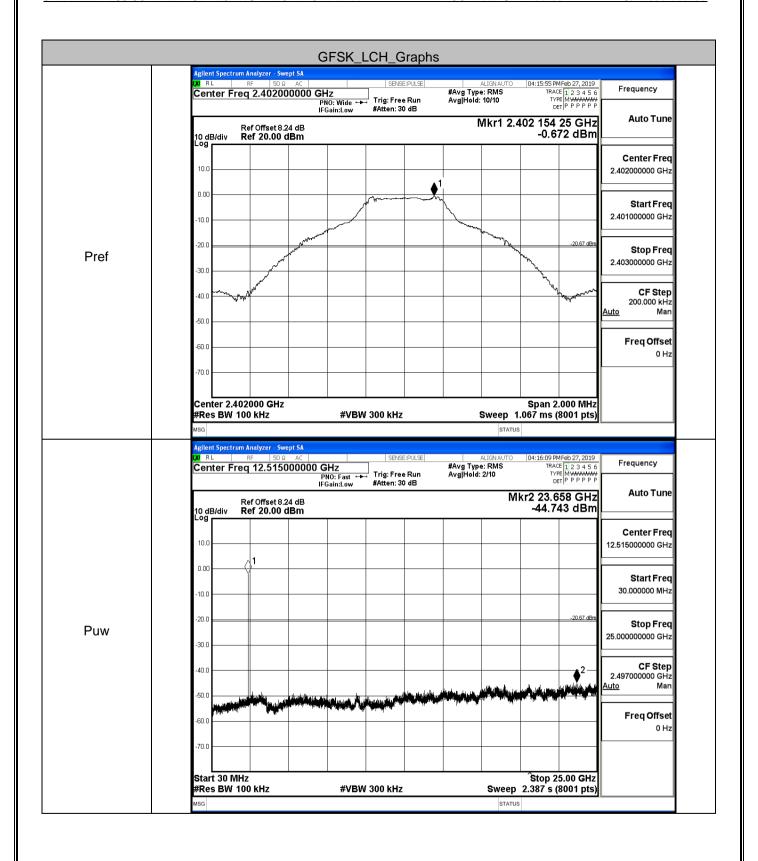
Mode	Packet	Channel	Burst Width [ms/hop/ch]	Total Hops[hop*ch]	Dwell Time[s]	Limit [s]	Verdict
	DH5	LCH	2.88	106.7	0.307	0.4	PASS
GFSK	DH5	MCH	2.88	106.7	0.307	0.4	PASS
	DH5 HCH		2.88	106.7	0.307	0.4	PASS
	2DH5	LCH	2.88	106.7	0.307	0.4	PASS
π/4DQPSK	2DH5	MCH	2.88	106.7	0.307	0.4	PASS
	2DH5	HCH	2.88	106.7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

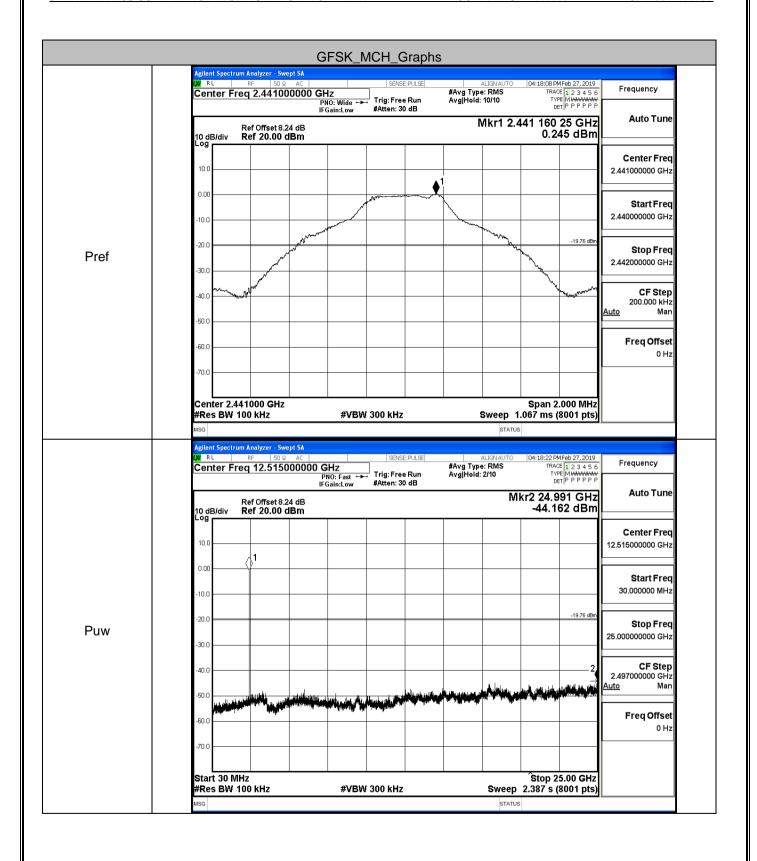


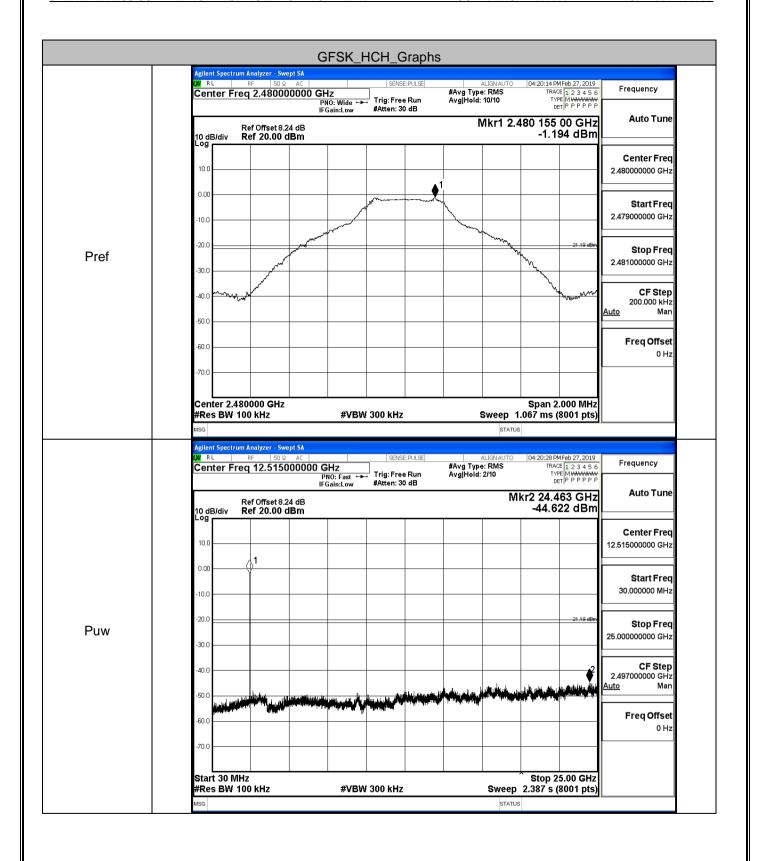


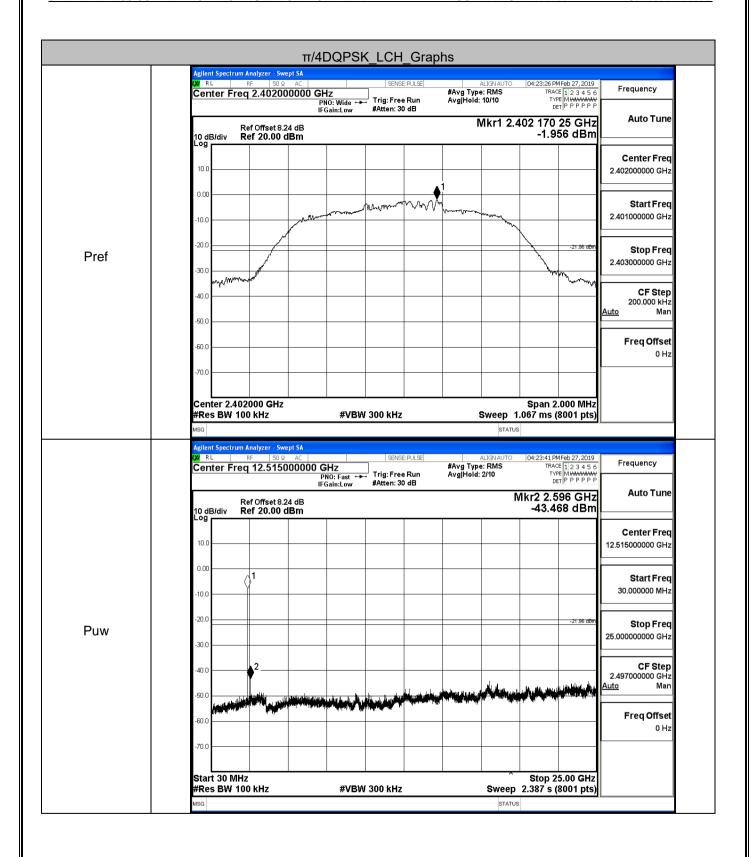
A.6 RF Conducted Spurious Emissions

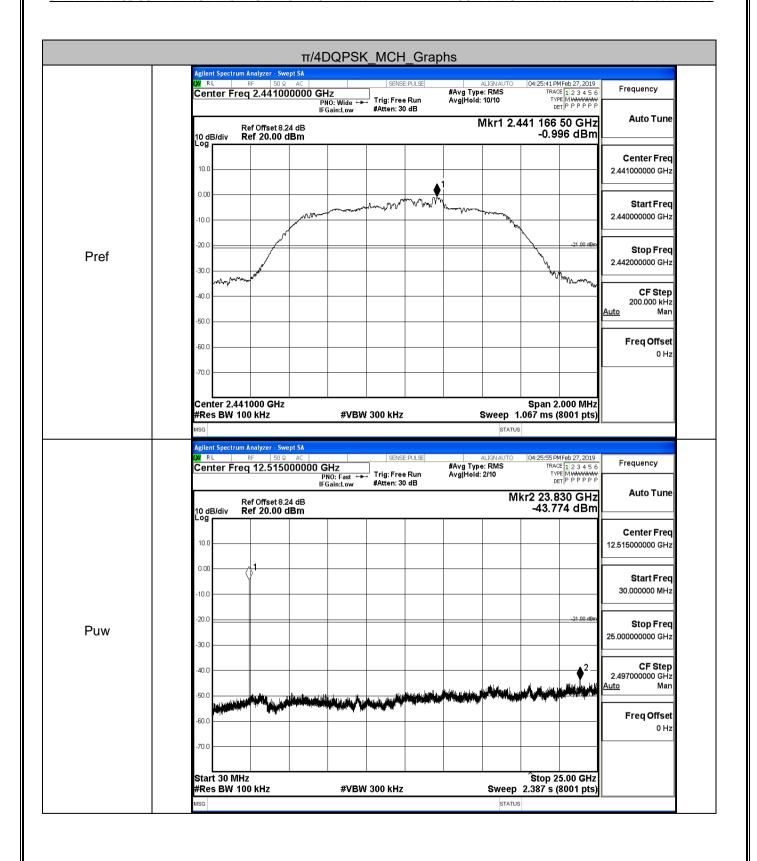
Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
	LCH	-0.672	-44.743	-20.672	PASS
GFSK	MCH	0.245	-44.162	-19.755	PASS
	НСН	-1.194	-44.622	-21.194	PASS
	LCH	-1.956	-43.468	-21.956	PASS
π/4DQPSK	MCH	-0.996	-43.774	-20.996	PASS
	HCH	-2.952	-44.251	-22.952	PASS
8DPSK	LCH	-1.618	-44.112	-21.618	PASS
	MCH	-1.531	-44.296	-21.531	PASS
	НСН	-2.48	-44.387	-22.480	PASS

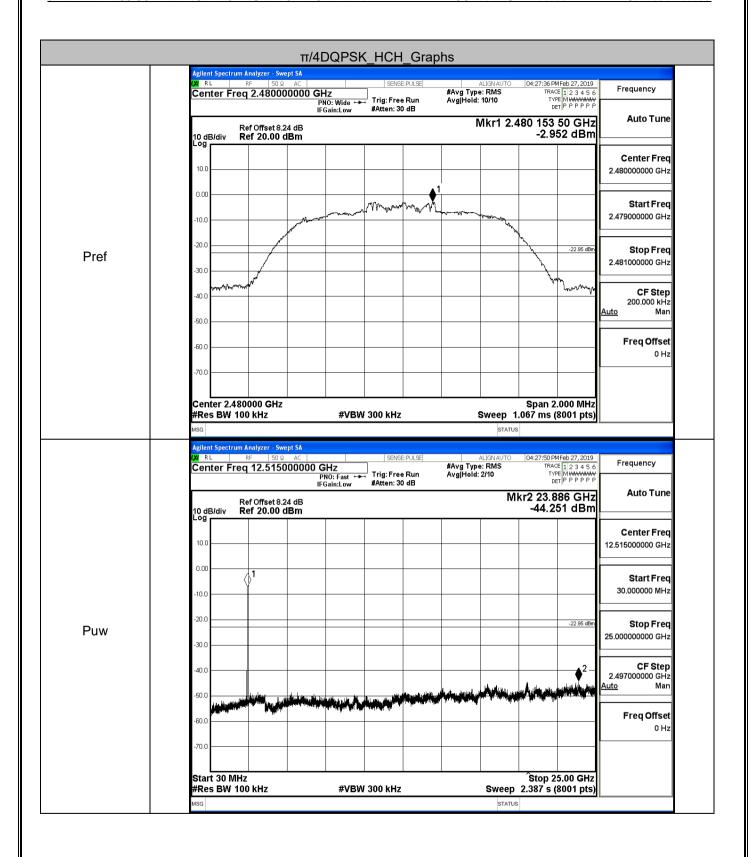


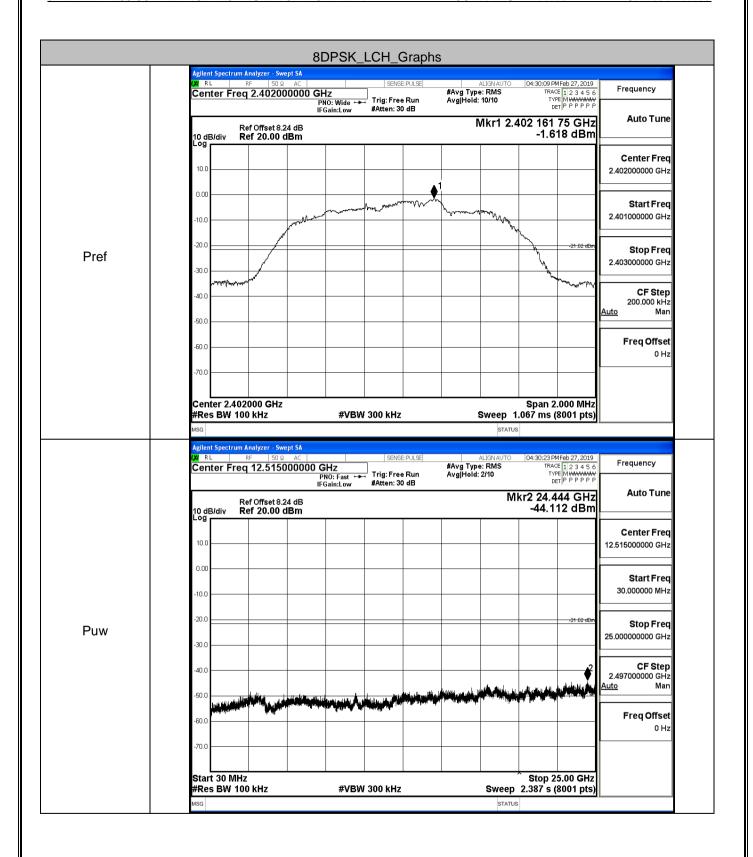


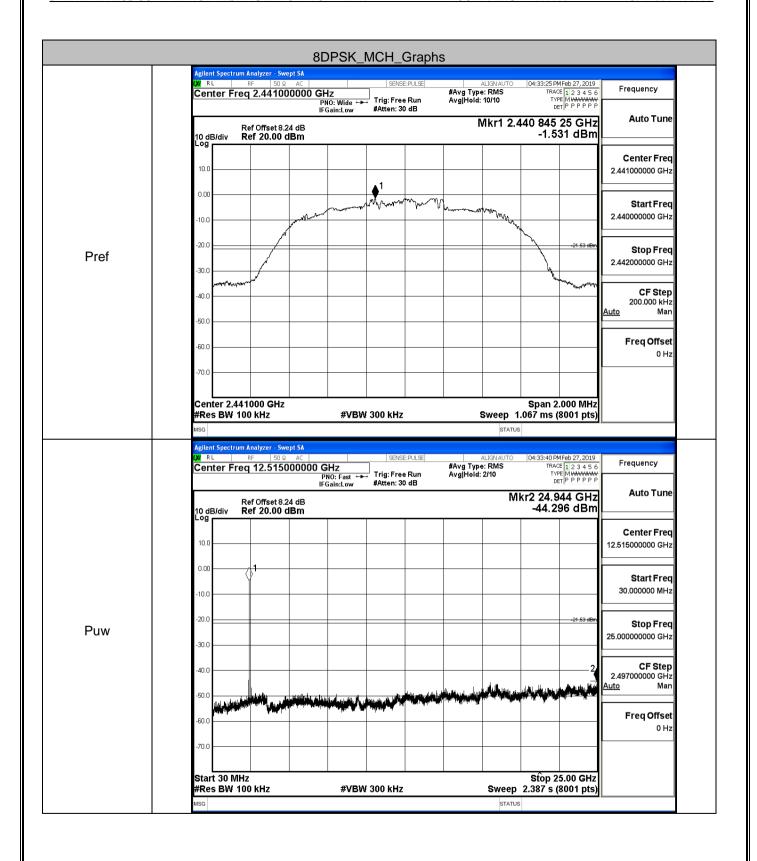


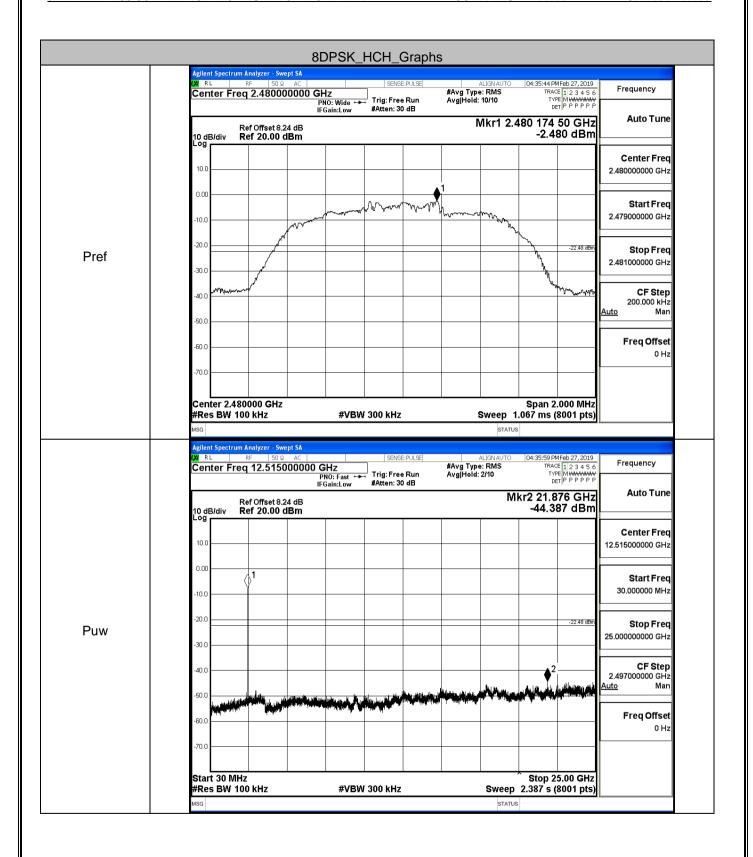






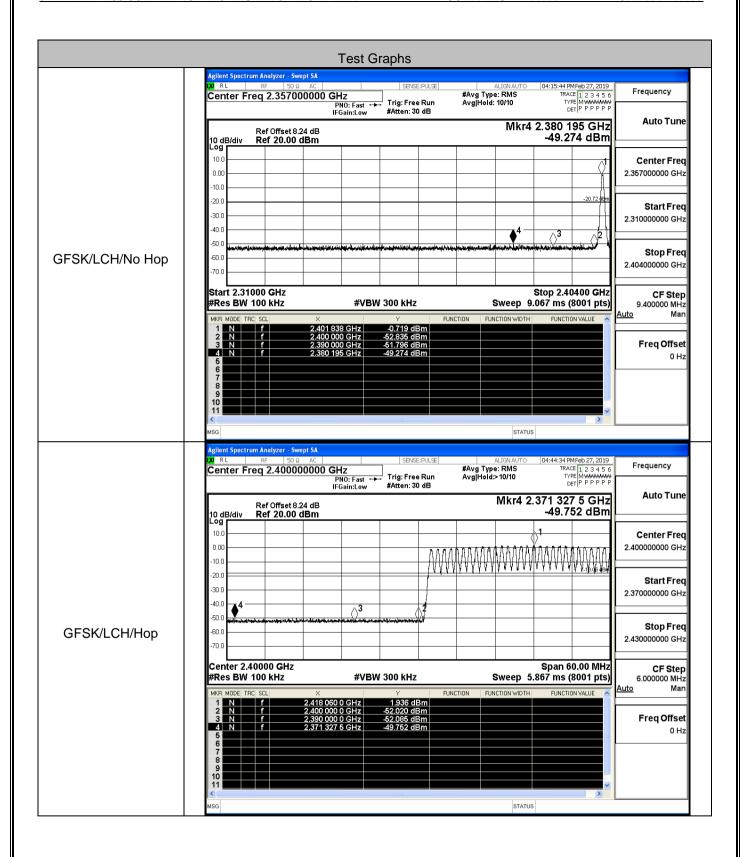


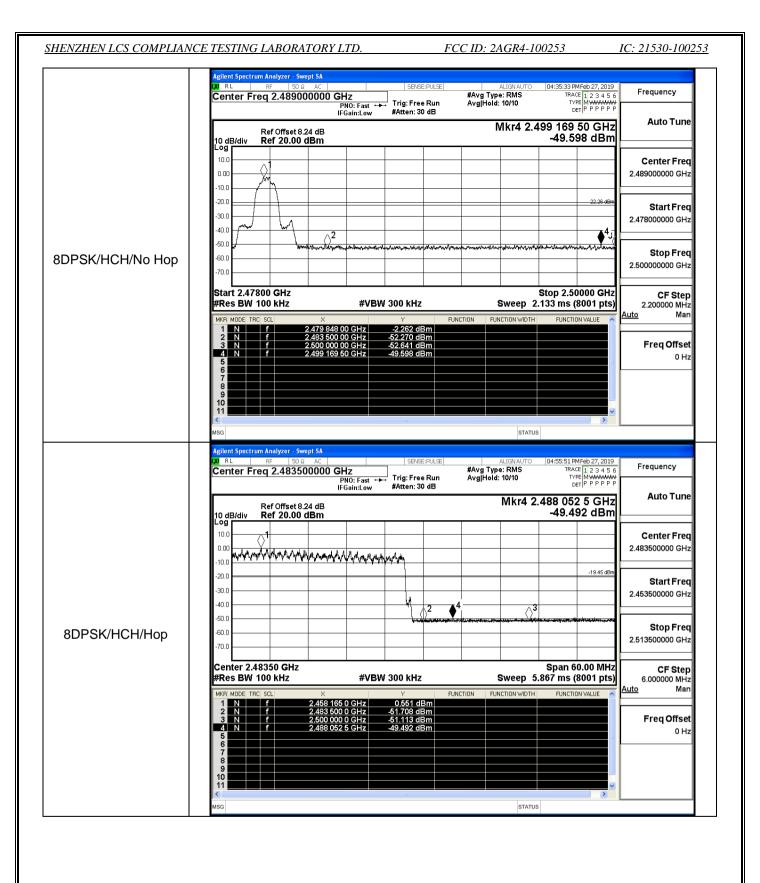




A.7 Band-edge for RF Conducted Emissions

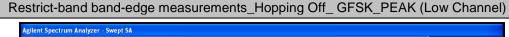
Mode	Channel	Carrier Frequency [MHz]	Carrier Power [dBm]	Frequency Hopping	Max Spurious Level [dBm]	Limit [dBm]	Verdict	
		0.400	-0.719	Off	-49.274	-20.72	PASS	
0.501/	LCH	2402	1.936	On	-49.752	-18.06	PASS	
GFSK	нсн	2480	-1.116	Off	-49.697	-21.12	PASS	
			2.006	On	-48.822	-17.99	PASS	
	LCH			-4.609	Off	-49.140	-24.61	PASS
		2402	0.743	On	-48.676	-19.26	PASS	
π/4DQPSK	нсн		-2.206	Off	-48.846	-22.21	PASS	
		2480	0.562	On	-48.584	-19.44	PASS	
			-4.208	Off	-49.788	-24.21	PASS	
	LCH	2402	0.575	On	-48.877	-19.43	PASS	
8DPSK			-2.262	Off	-49.598	-22.26	PASS	
	HCH	2480	0.551	On	-49.492	-19.45	PASS	

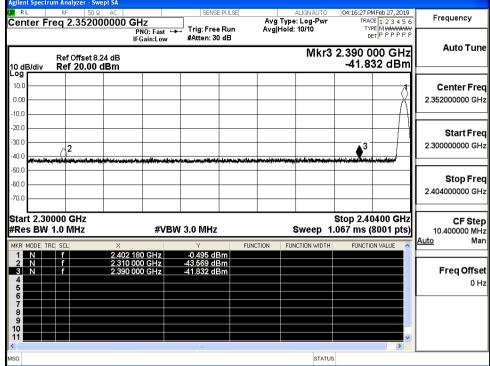




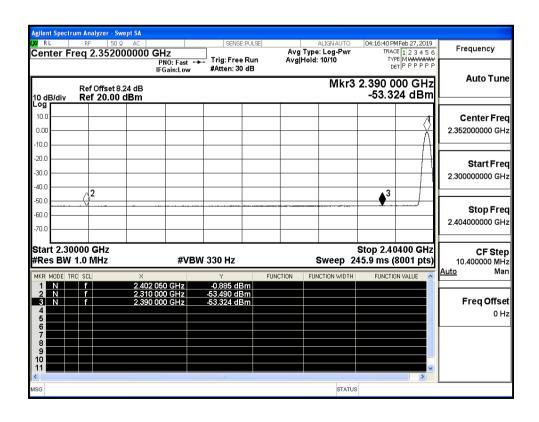
A.8 Restrict-band band-edge measurements

Test Mode	Hopping	Freq.	Power [dBm]	Gain	Ground Factor	E [dBuV/m]	Detector	Limit [dBuV/m]	Verdict
	Off	2310.0	-43.57	2.0	0	53.69	PEAK	74	PASS
	Off	2310.0	-53.49	2.0	0	43.77	AV	54	PASS
	Off	2390.0	-41.83	2.0	0	55.43	PEAK	74	PASS
	Off	2390.0	-53.32	2.0	0	43.93	AV	54	PASS
GFSK	Off	2483.5	-43.44	2.0	0	53.82	PEAK	74	PASS
	Off	2483.5	-52.99	2.0	0	44.27	AV	54	PASS
	Off	2500.0	-43.28	2.0	0	53.98	PEAK	74	PASS
	Off	2500.0	-52.95	2.0	0	44.31	AV	54	PASS
	Off	2310.0	-42.54	2.0	0	54.72	PEAK	74	PASS
	Off	2310.0	-53.50	2.0	0	43.76	AV	54	PASS
	Off	2390.0	-43.15	2.0	0	54.11	PEAK	74	PASS
/4D 0 D01/	Off	2390.0	-53.37	2.0	0	43.89	AV	54	PASS
π/4DQPSK	Off	2483.5	-42.71	2.0	0	54.55	PEAK	74	PASS
	Off	2483.5	-53.05	2.0	0	44.20	AV	54	PASS
	Off	2500.0	-42.44	2.0	0	54.82	PEAK	74	PASS
	Off	2500.0	-52.75	2.0	0	44.50	AV	54	PASS
	Off	2310.0	-43.21	2.0	0	54.05	PEAK	74	PASS
	Off	2310.0	-53.58	2.0	0	43.68	AV	54	PASS
	Off	2390.0	-42.96	2.0	0	54.30	PEAK	74	PASS
00001	Off	2390.0	-53.37	2.0	0	43.89	AV	54	PASS
8DPSK	Off	2483.5	-42.42	2.0	0	54.84	PEAK	74	PASS
	Off	2483.5	-52.96	2.0	0	44.30	AV	54	PASS
	Off	2500.0	-43.01	2.0	0	54.25	PEAK	74	PASS
	Off	2500.0	-52.84	2.0	0	44.42	AV	54	PASS

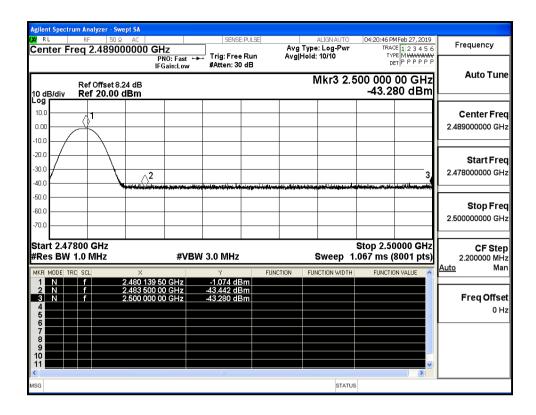




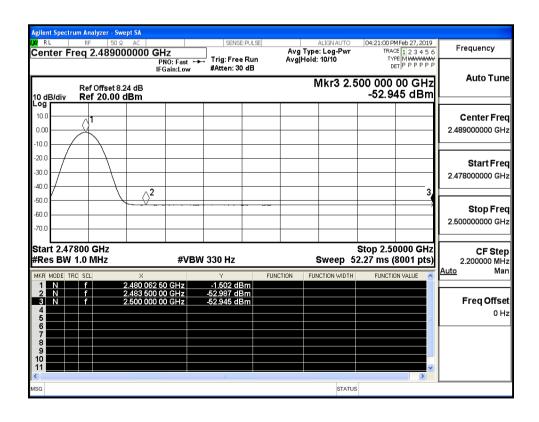
Restrict-band band-edge measurements_Hopping Off_ GFSK_Average (Low Channel)



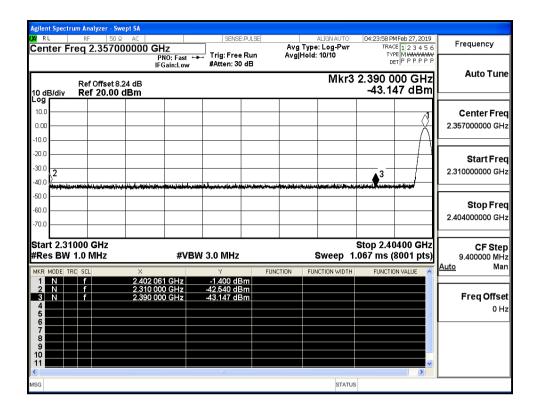
Restrict-band band-edge measurements_Hopping Off_ GFSK_PEAK (High Channel)



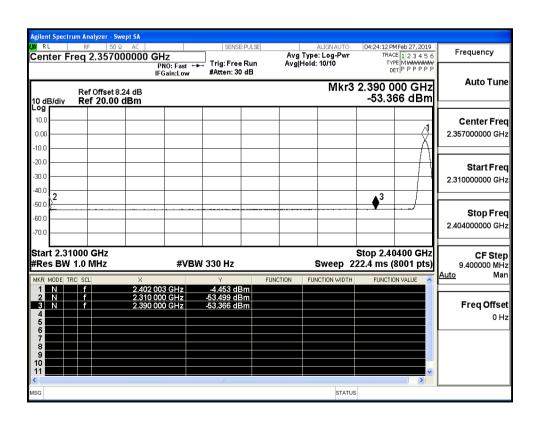
Restrict-band band-edge measurements_Hopping Off_ GFSK_Average (High Channel)



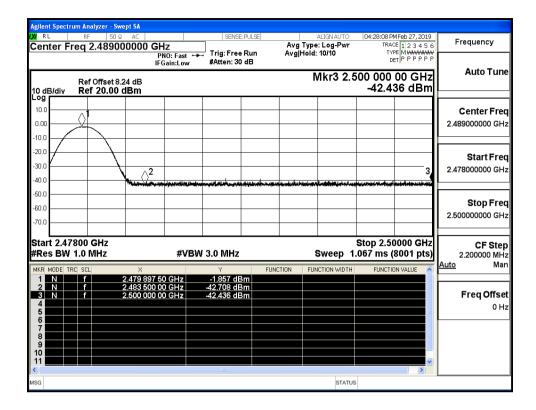
Restrict-band band-edge measurements_Hopping Off_π/4-DQPSK_PEAK (Low Channel)



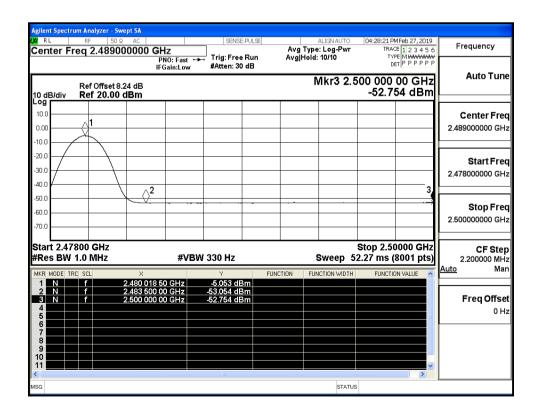
Restrict-band band-edge measurements_Hopping Off_π/4-DQPSK_Average (Low Channel)



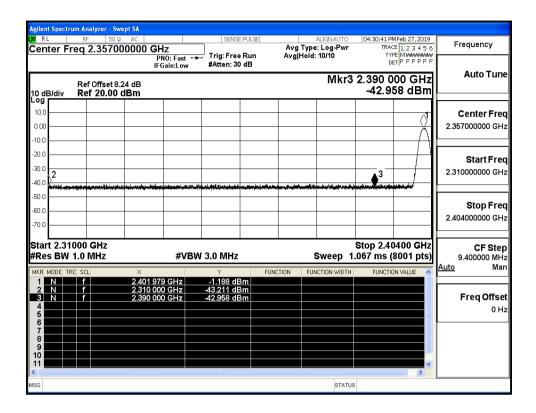
Restrict-band band-edge measurements_Hopping Off_π/4-DQPSK_PEAK (High Channel)



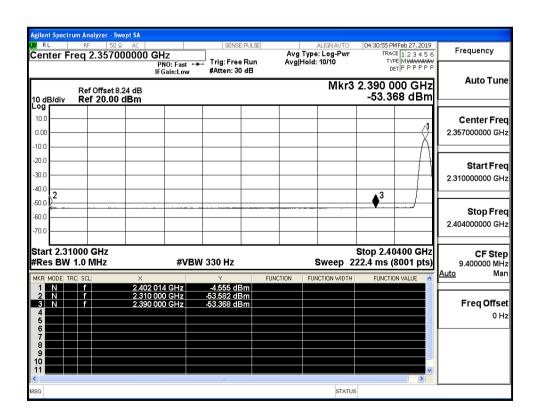
Restrict-band band-edge measurements_Hopping Off_π/4-DQPSK_Average (High Channel)



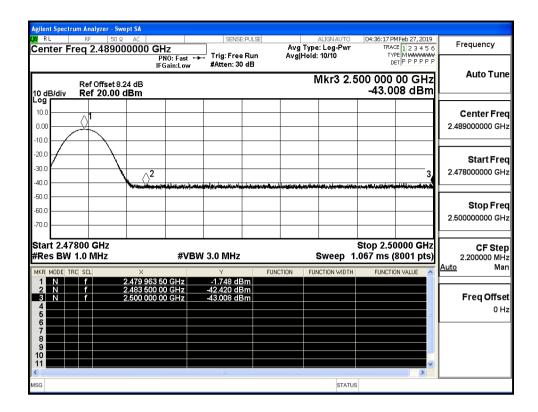
Restrict-band band-edge measurements_Hopping Off_8DPSK_PEAK (Low Channel)



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)

