Appendix A RF Test Data for BT V5.0(BDR/EDR) (Conducted Measurement) **Product Name: Wireless earbuds**

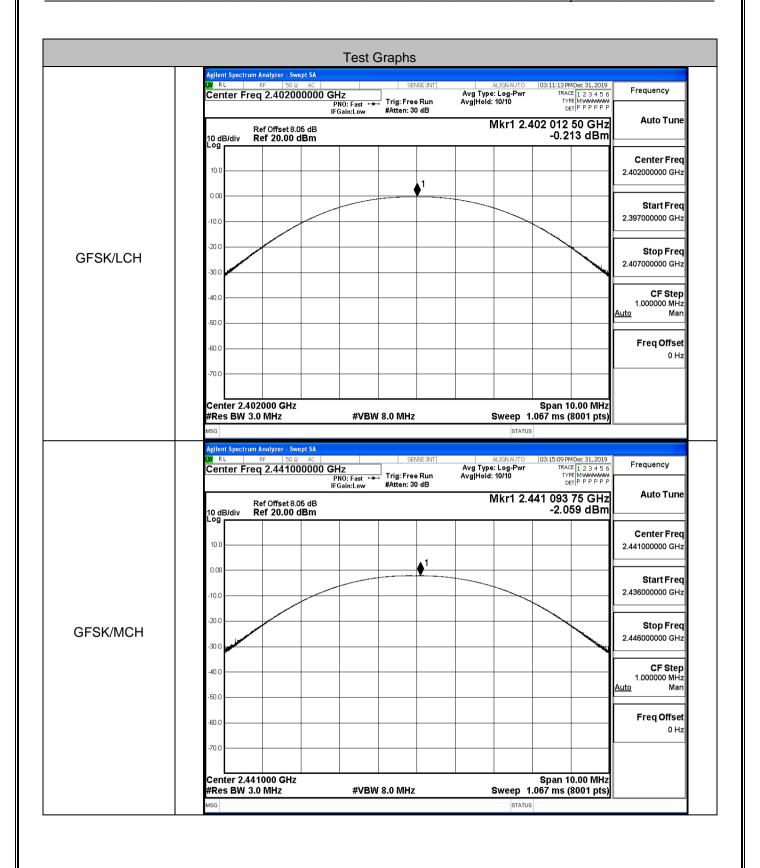
Trade Mark: Polaroid Test Model: PBTE103

Environmental Conditions

Temperature:	24.3 ° C
Relative Humidity:	53.5%
ATM Pressure:	100.0 kPa
Test Engineer:	Diamond Lu
Supervised by:	Wang Chuang

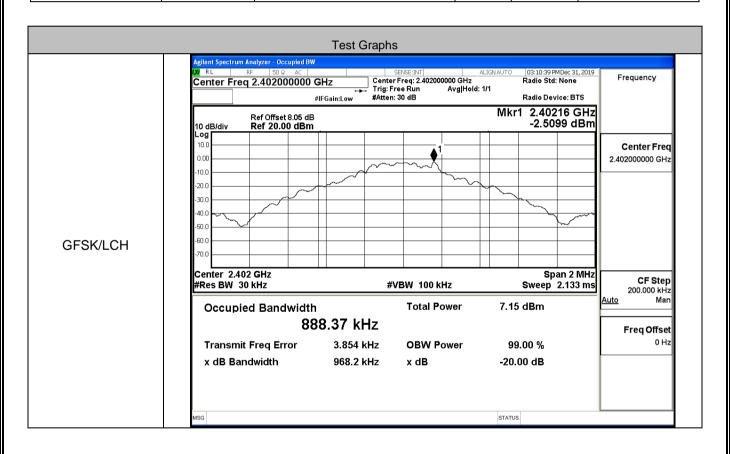
A.1 Maxmum Conducted Peak Output Power

Mode	Channel.	Maximum Peak Output Power [dBm]	Limit [dBm]	Verdict
	LCH	-0.213	30	PASS
GFSK	MCH	-2.059	30	PASS
	НСН	-0.881	30	PASS
	LCH	-0.960	21	PASS
π/4DQPSK	MCH	-2.664	21	PASS
	НСН	-1.668	21	PASS
	LCH	-0.747	21	PASS
8DPSK	8DPSK MCH -2.491		21	PASS
	HCH	-1.392	21	PASS



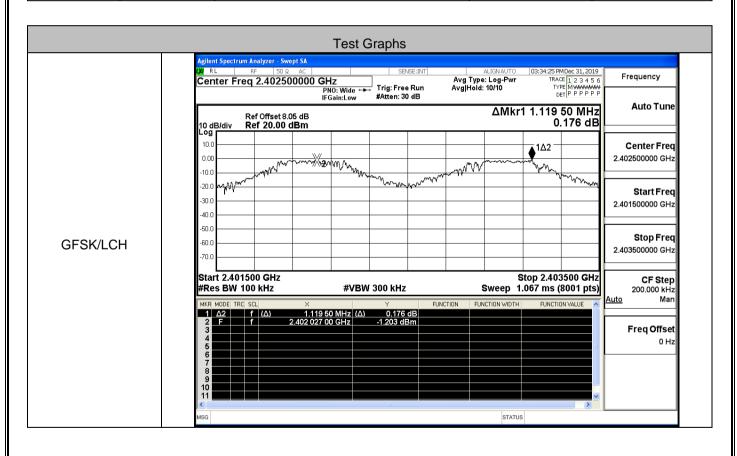
A.2 20dB Bandwidth

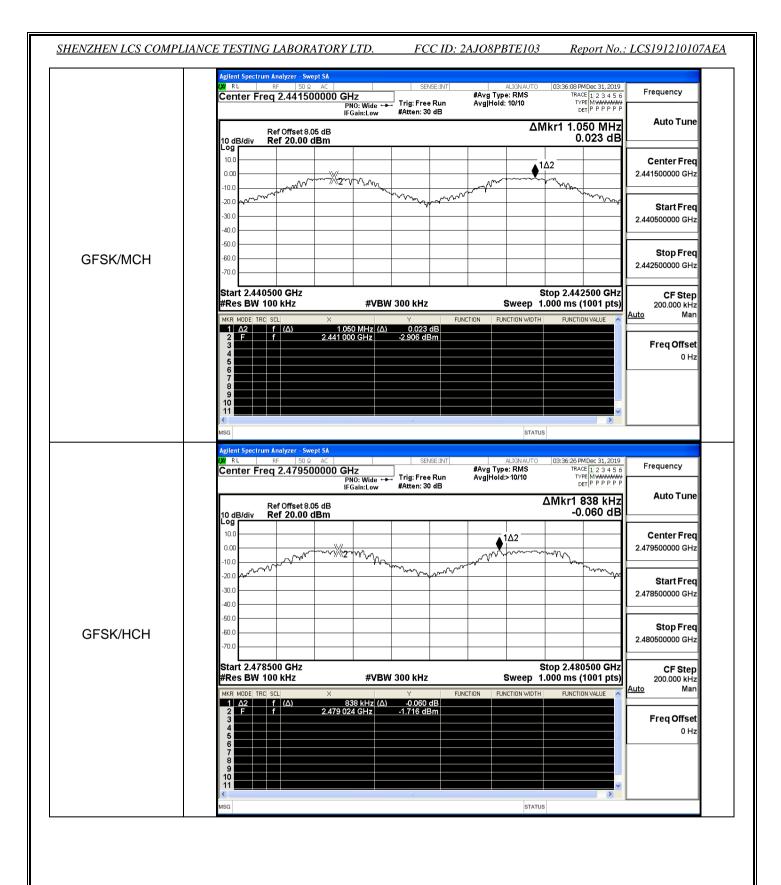
Mode	Channel.	20dB Bandwidth [MHz]	Limit [MHz]	Verdict
	LCH	0.9682	Not Specified	PASS
GFSK	MCH	1.028	Not Specified	PASS
	НСН	1.029	Not Specified	PASS
	LCH	1.289	Not Specified	PASS
π/4DQPSK	MCH	1.292	Not Specified	PASS
	НСН	1.307	Not Specified	PASS
	LCH	1.298	Not Specified	PASS
8DPSK	MCH	1.298	Not Specified	PASS
	HCH	1.294	Not Specified	PASS

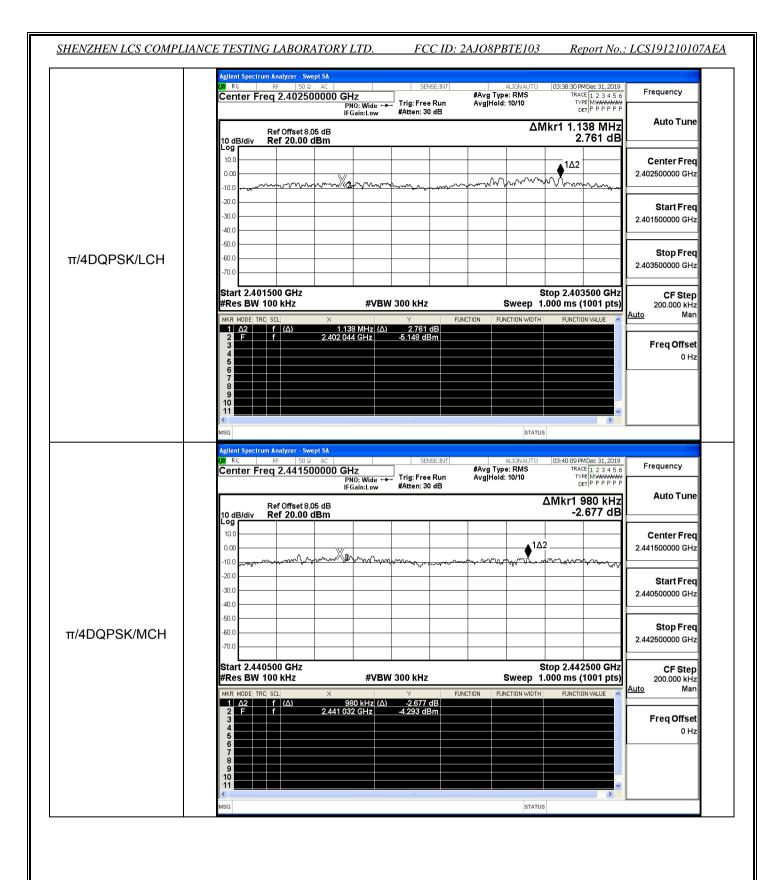


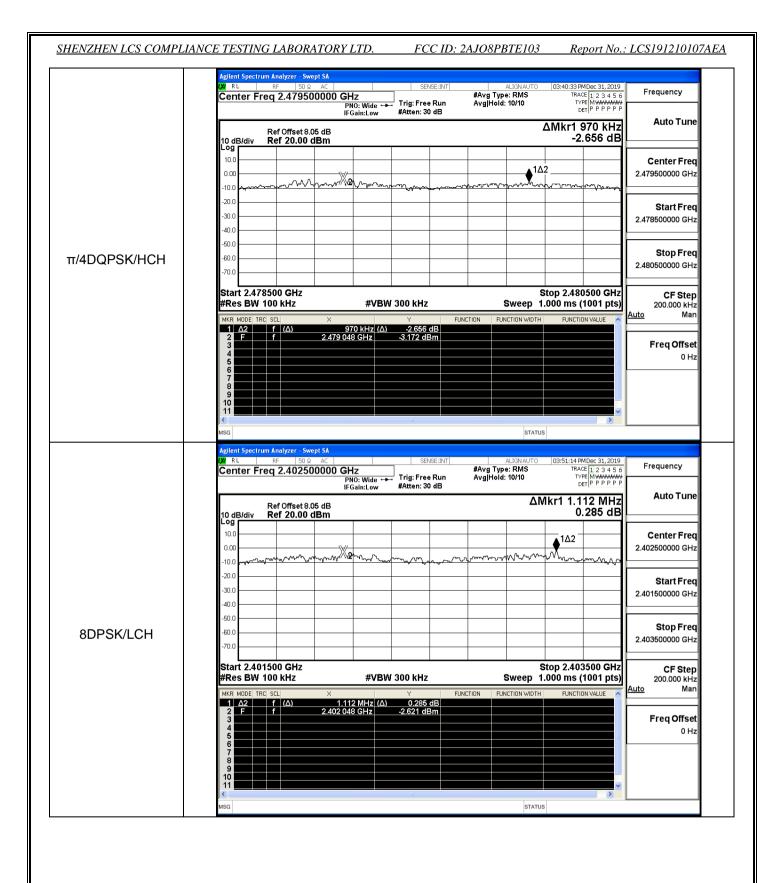
A.3 Carrier Frequency Separation

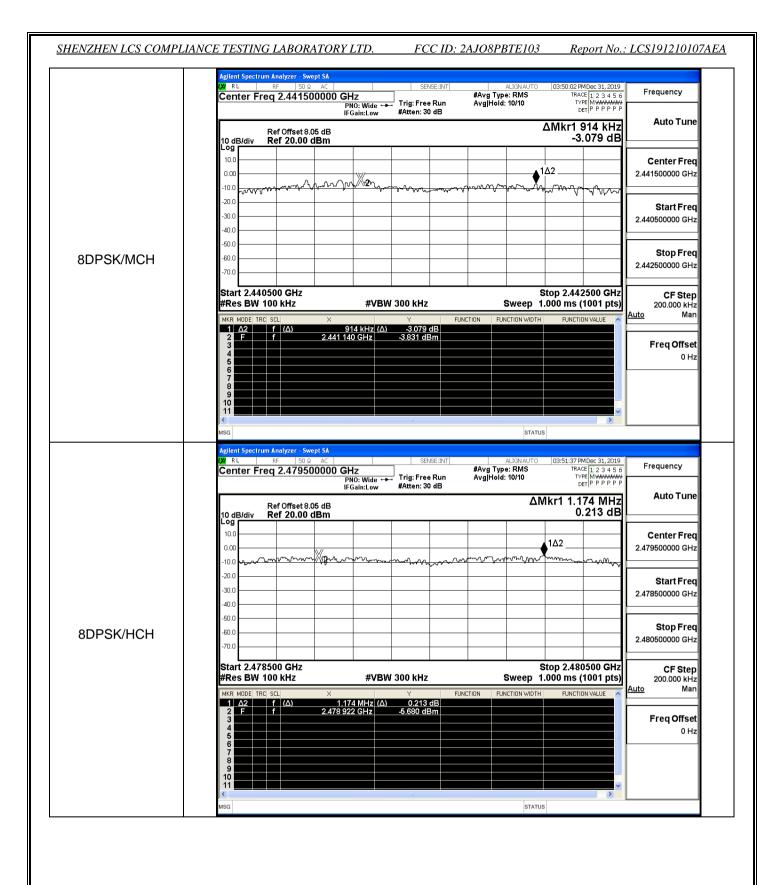
Mode	Channel.	Carrier Frequency Separation [MHz]	Limit [MHz]	Verdict
	LCH	1.119	0.686	PASS
GFSK	MCH	1.050	0.686	PASS
	HCH	0.838	0.686	PASS
	LCH	1.138	0.871	PASS
π/4DQPSK	MCH	0.980	0.871	PASS
	HCH	0.970	0.871	PASS
8DPSK	LCH	1.112	0.865	PASS
	MCH	0.914	0.865	PASS
	HCH	1.174	0.865	PASS





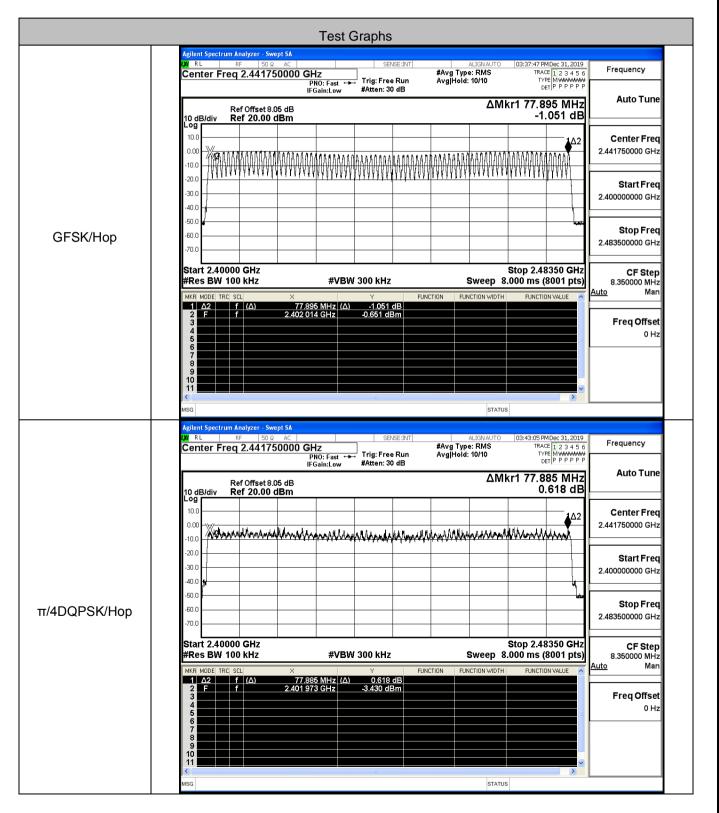






A.4 Hopping Channel Number

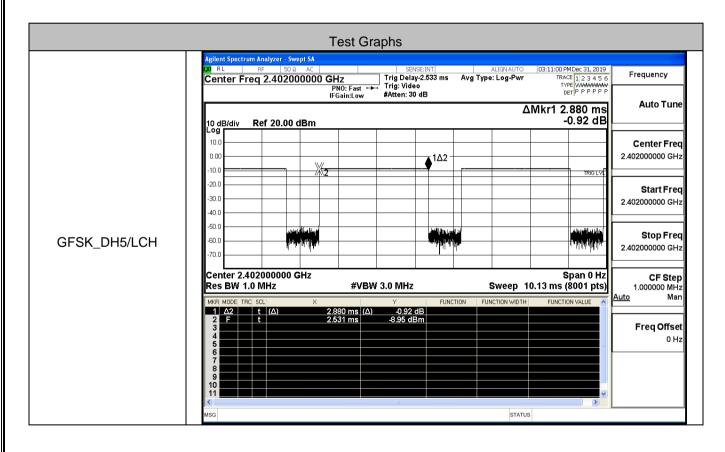
Mode	Channel.	Number of Hopping Channel [N]	Limit [N]	Verdict
GFSK	Нор	79	>=15	PASS
π/4DQPSK	Нор	79	>=15	PASS
8DPSK	Нор	79	>=15	PASS

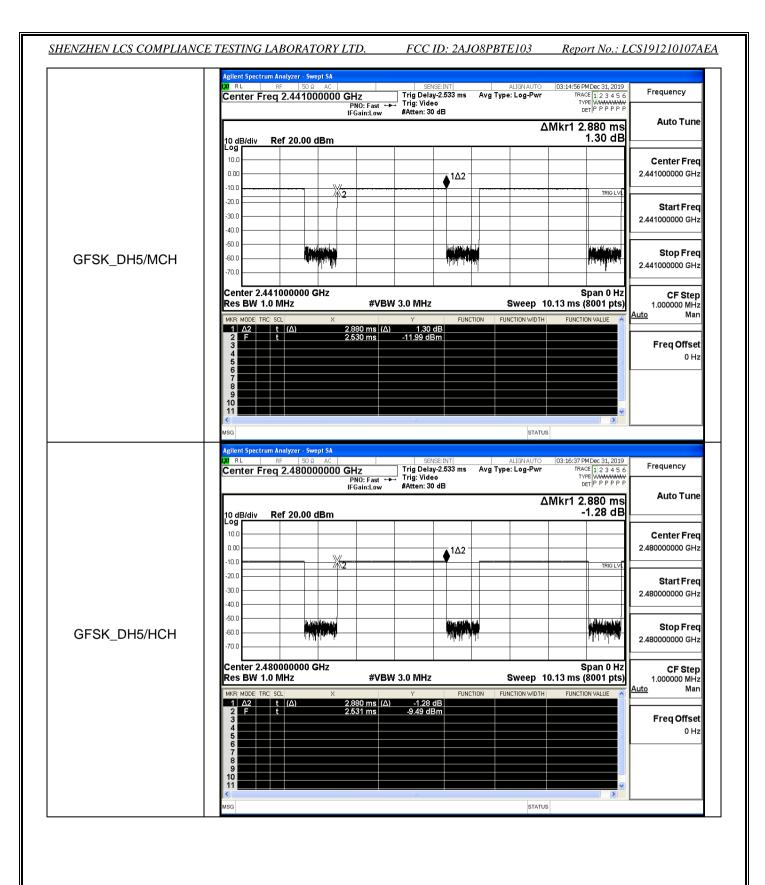


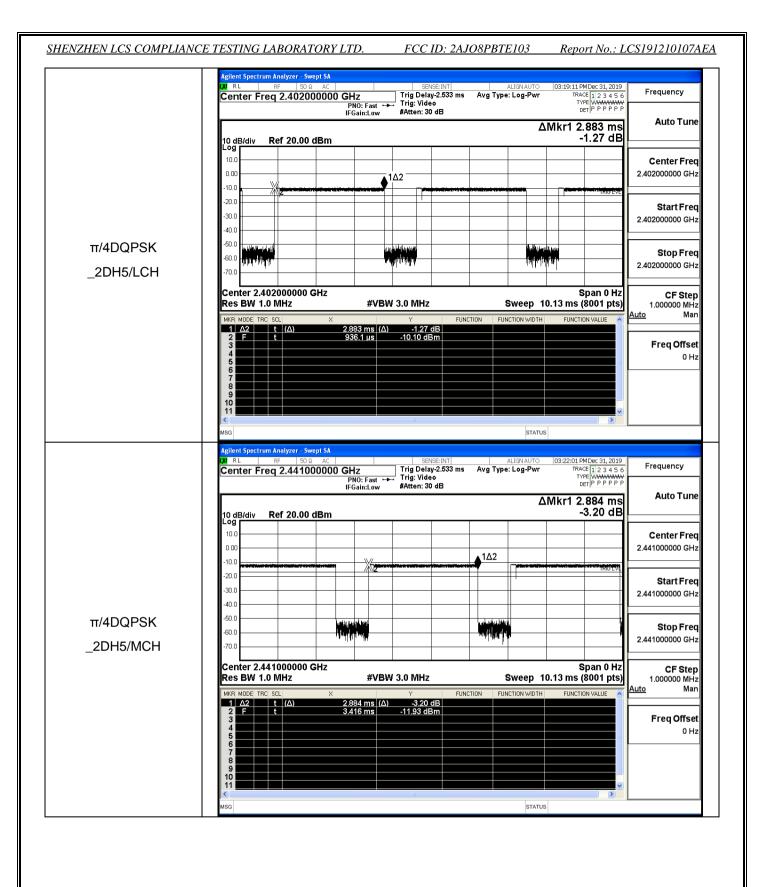
Page 17 of 47

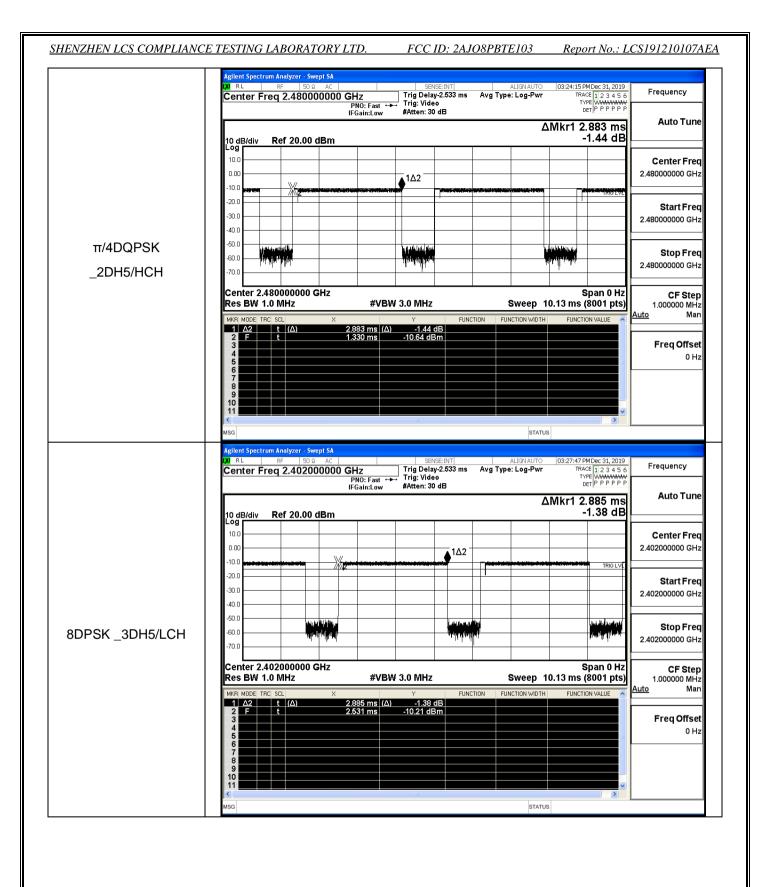
A.5 Dwell Time

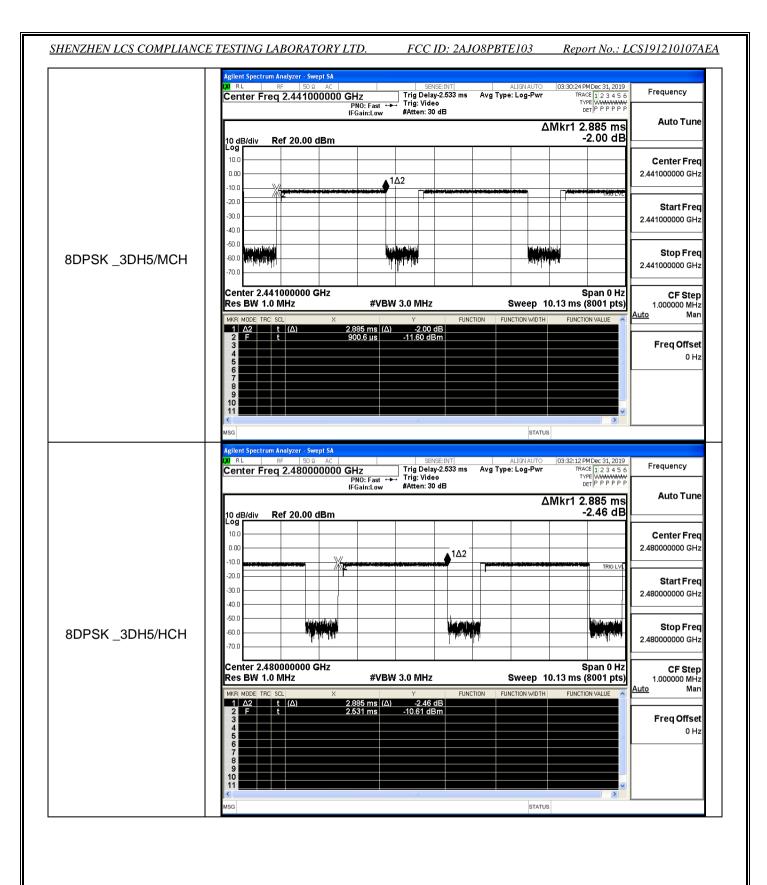
Mode	Packet	Channel	Burst Width [ms/hop/ch]	Total Hops[hop*ch]	Dwell Time[s]	Limit [s]	Verdict
	DH5	LCH	2.88	106.7	0.307	0.4	PASS
GFSK	DH5	MCH	2.88	106.7	0.307	0.4	PASS
	DH5	HCH	2.88	106.7	0.307	0.4	PASS
	2DH5	LCH	2.88	106.7	0.307	0.4	PASS
π/4DQPSK	2DH5	MCH	2.88	106.7	0.307	0.4	PASS
	2DH5	HCH	2.88	106.7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





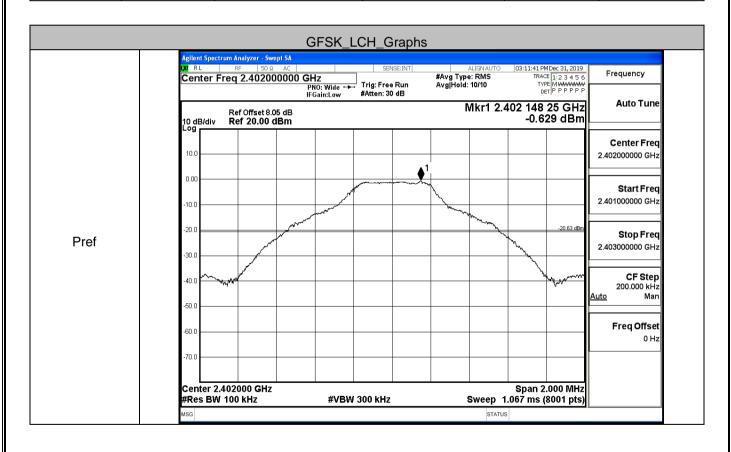




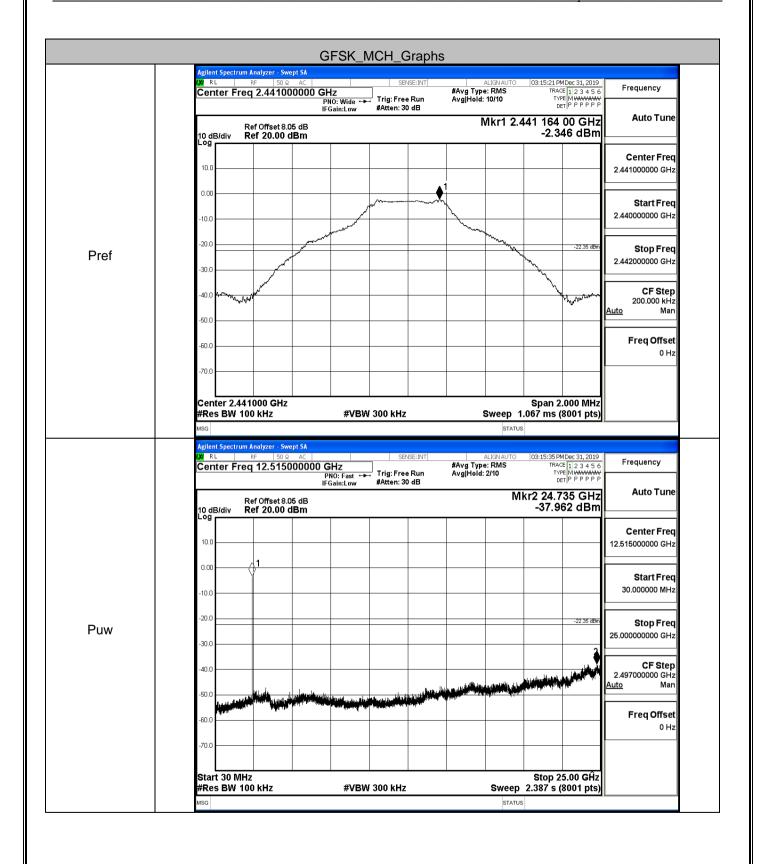


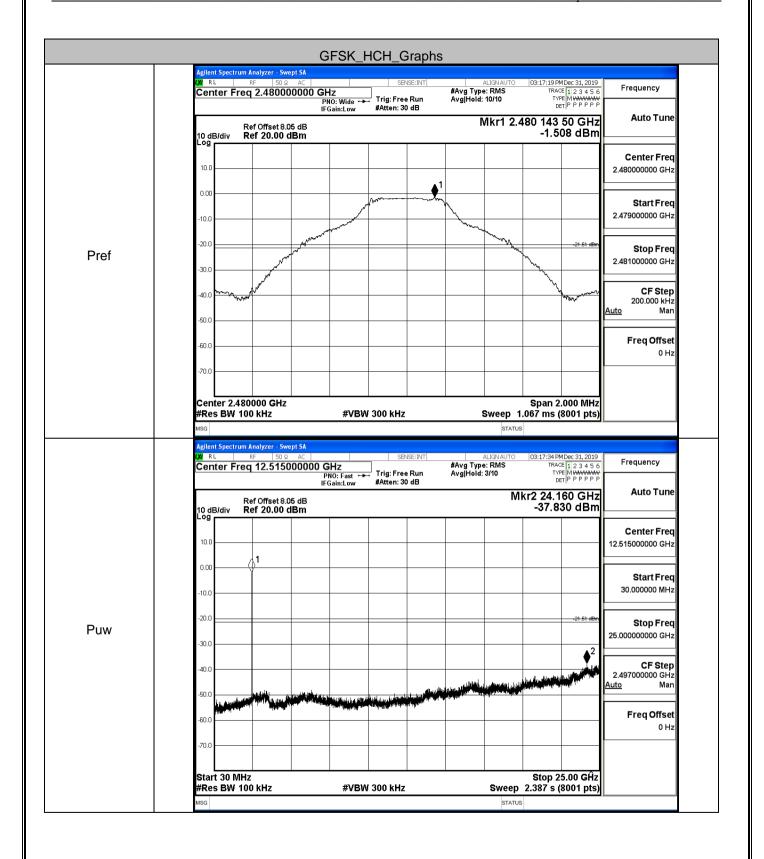
A.6 RF Conducted Spurious Emissions

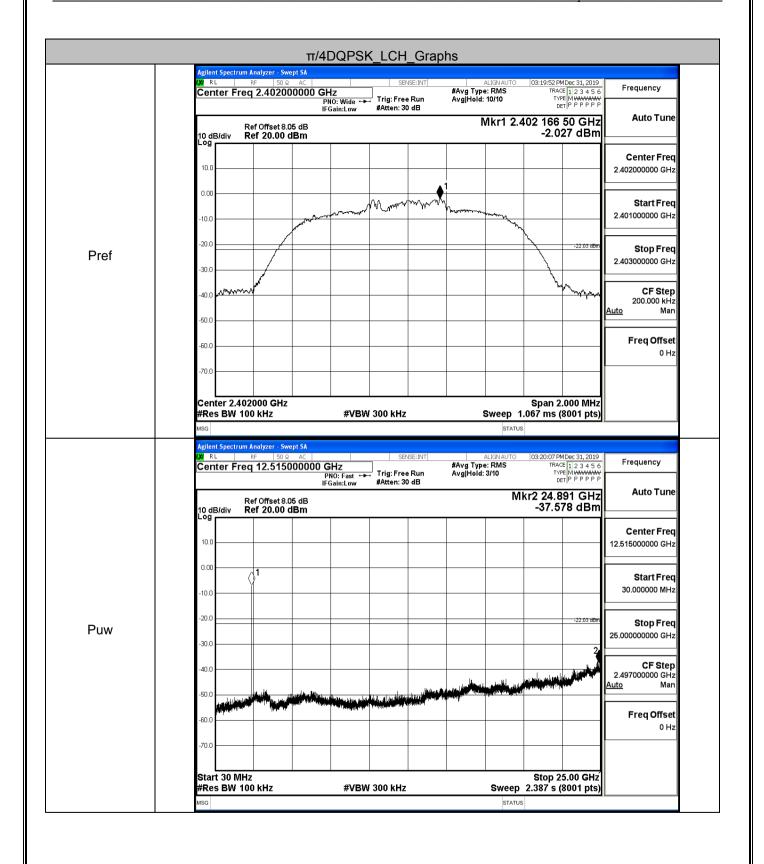
Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
	LCH	-0.629	-37.091	-20.629	PASS
GFSK	MCH	-2.346	-37.962	-22.346	PASS
	НСН	-1.508	-37.830	-21.508	PASS
	LCH	-2.027	-37.578	-22.027	PASS
π/4DQPSK	MCH	-4.169	-37.357	-24.169	PASS
	НСН	-2.49	-37.173	-22.490	PASS
	LCH	-1.954	-37.023	-21.954	PASS
8DPSK	MCH	-3.414	-37.287	-23.414	PASS
	НСН	-2.576	-37.396	-22.576	PASS

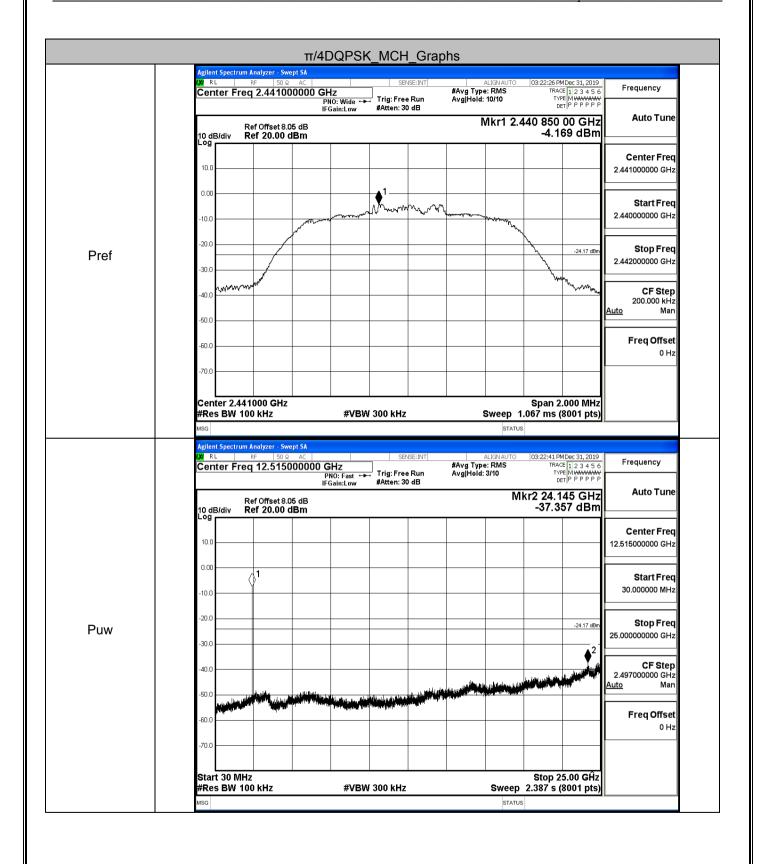


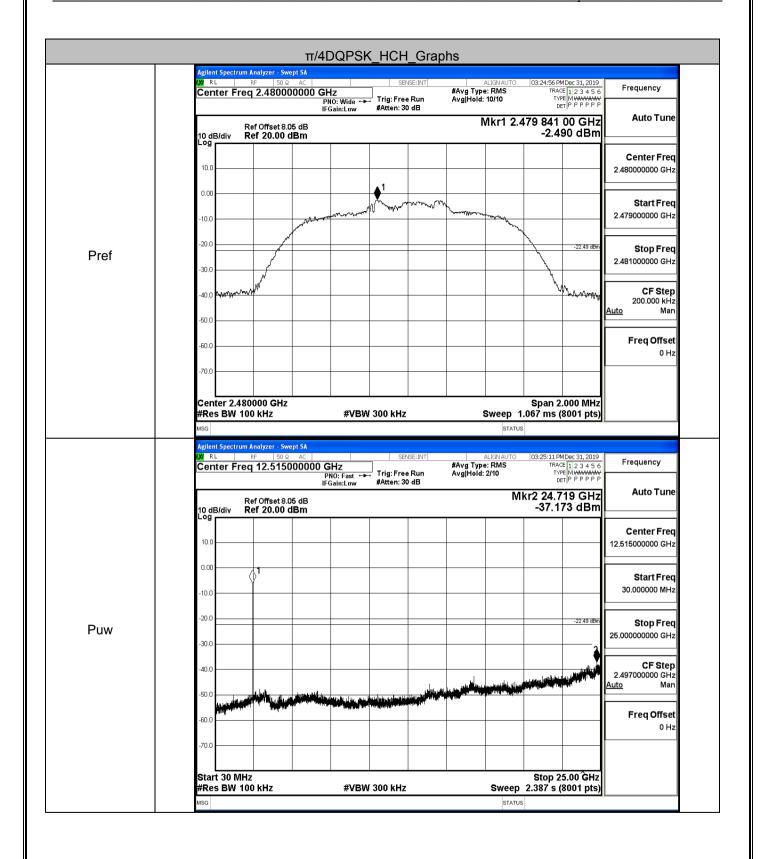
#VBW 300 kHz

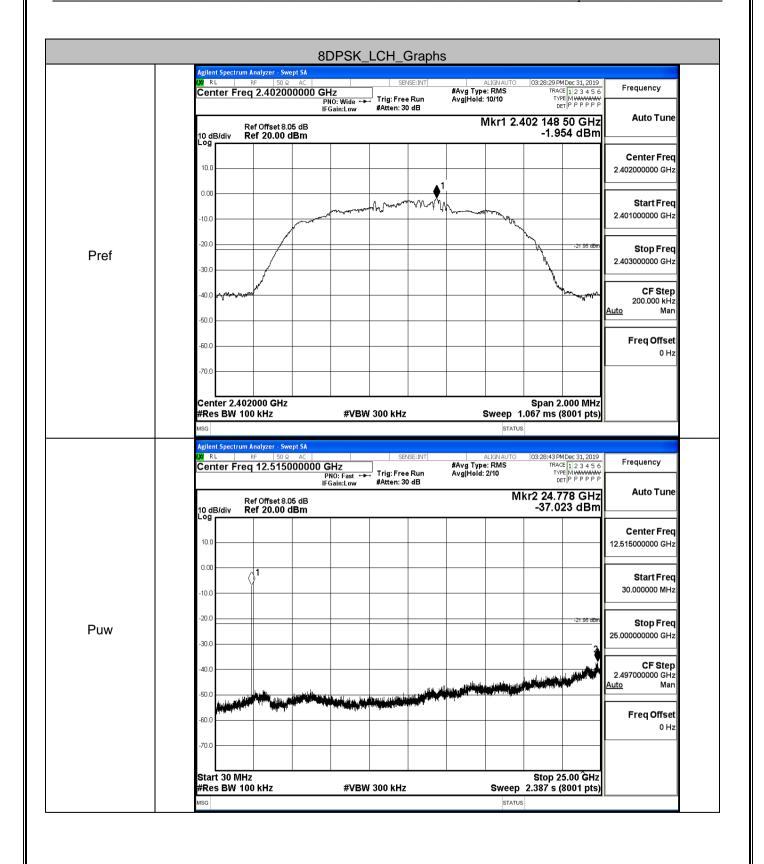


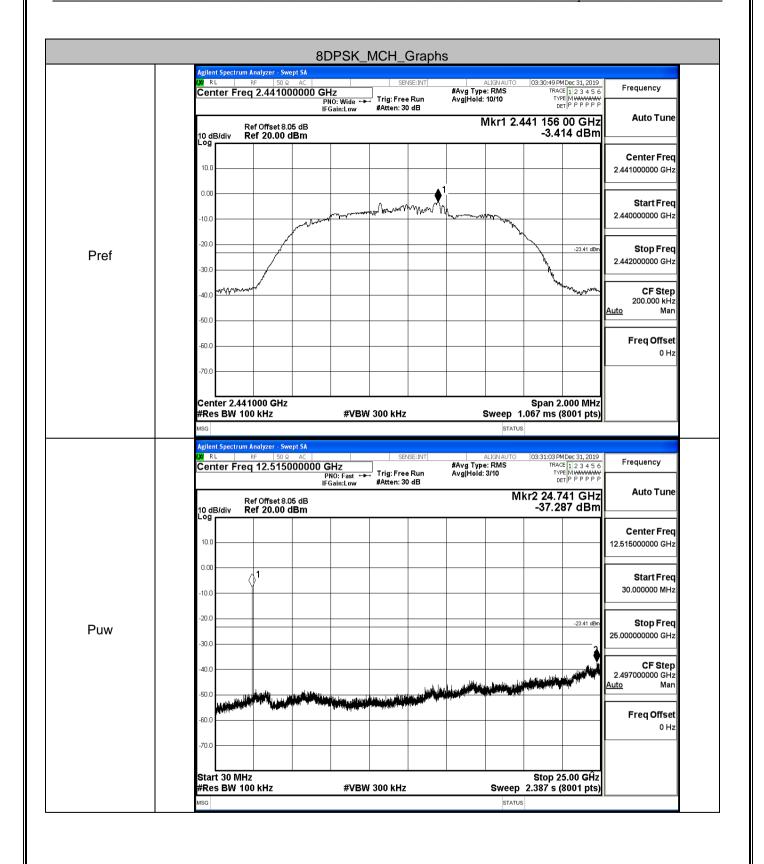


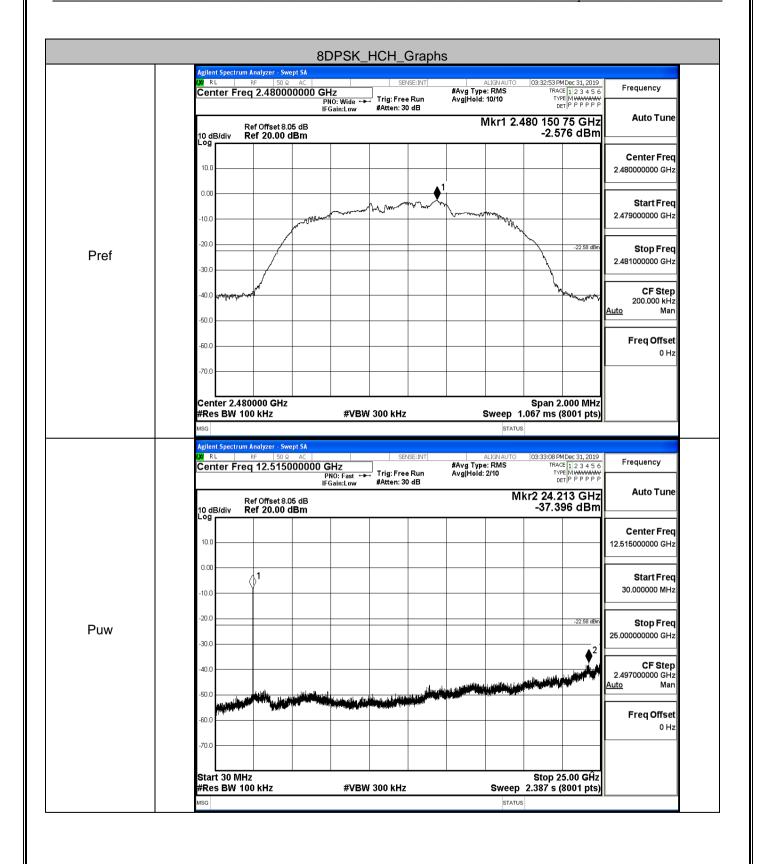






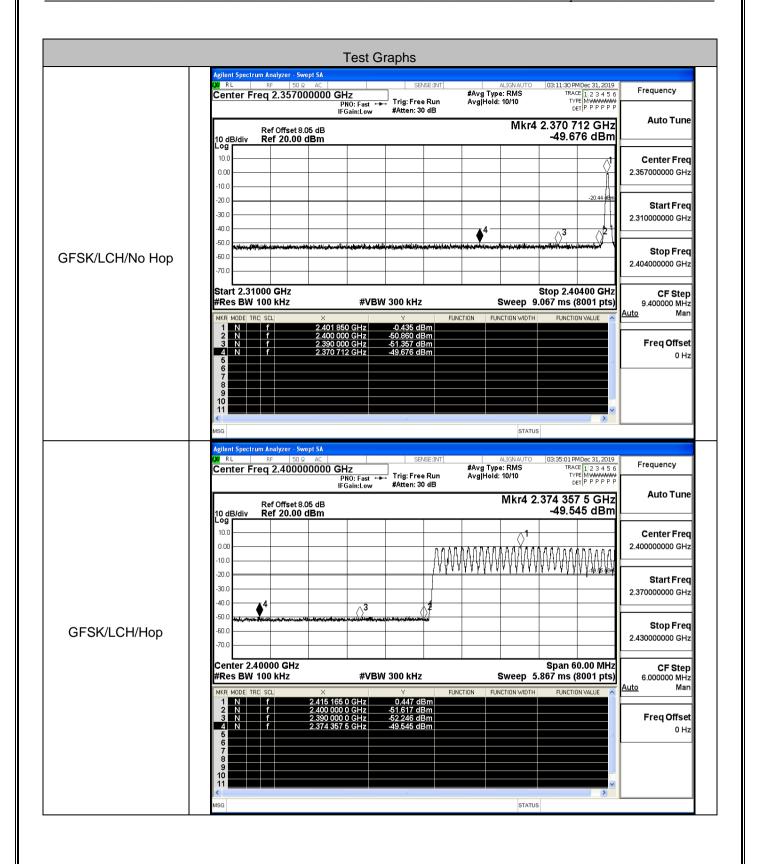


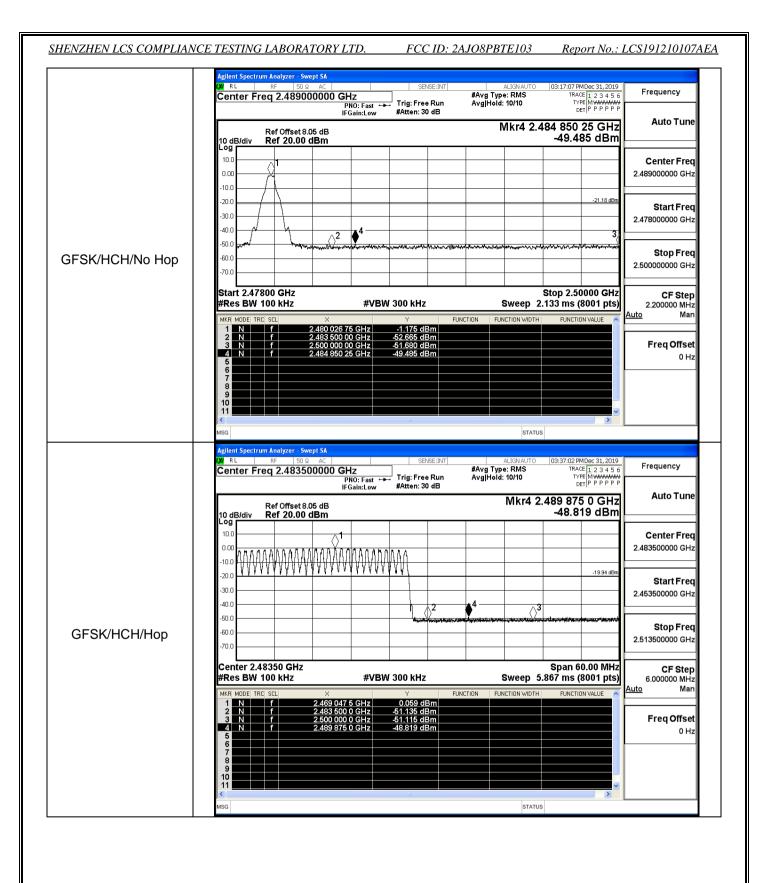


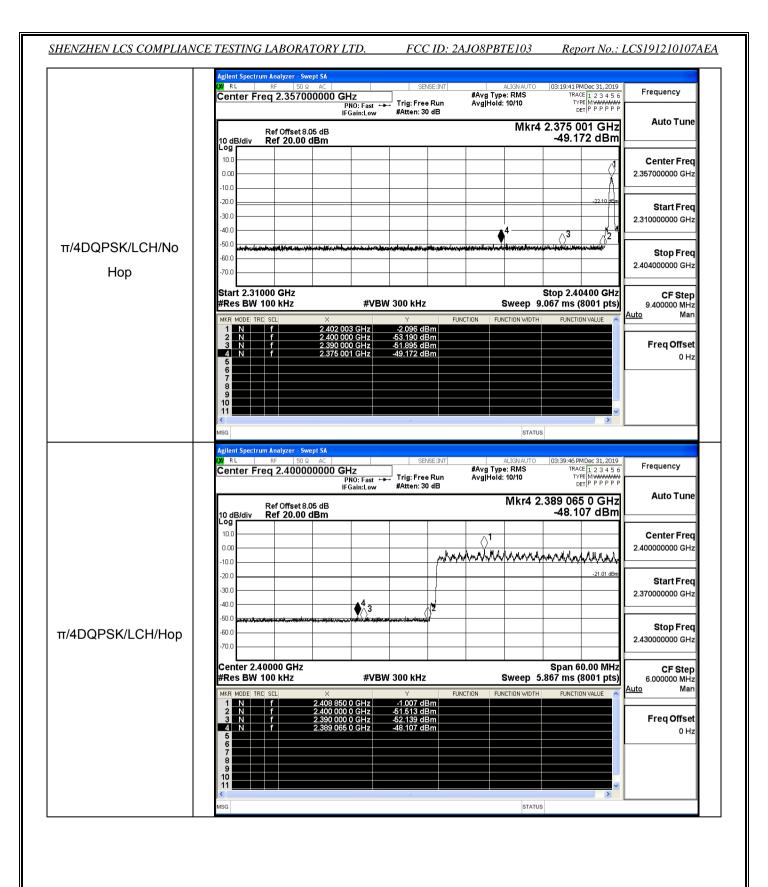


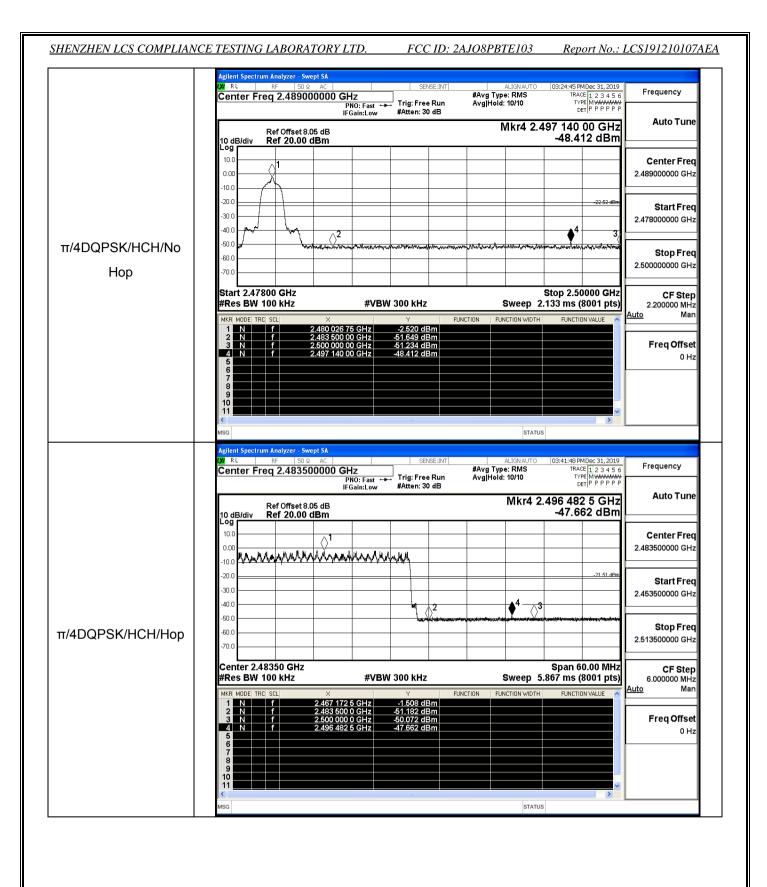
A.7 Band-edge for RF Conducted Emissions

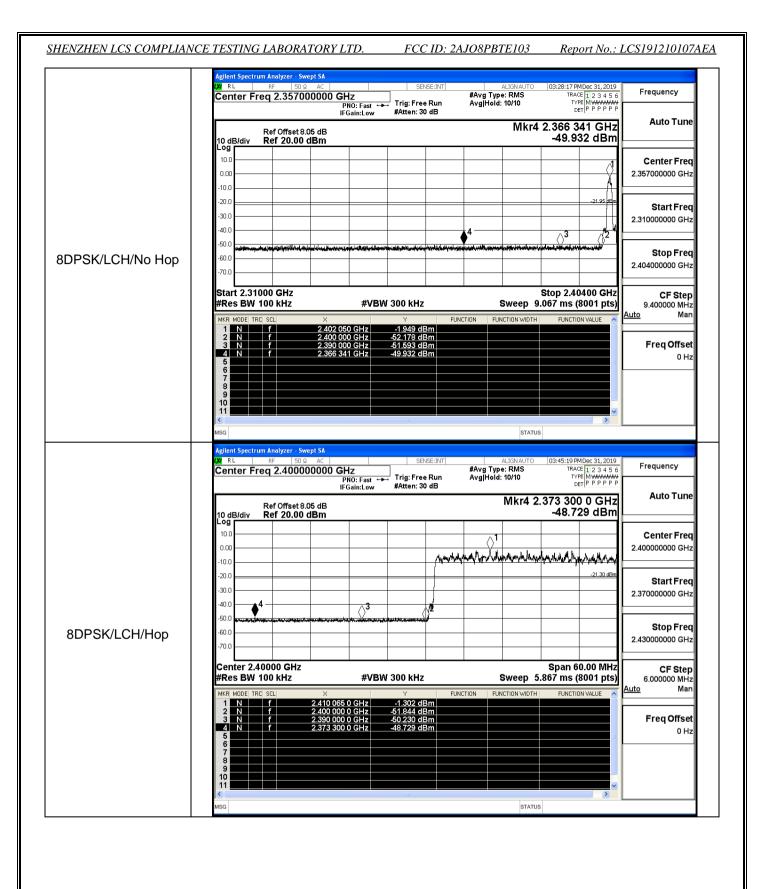
Mode	Channel	Carrier Frequency [MHz]	Carrier Power [dBm]	Frequency Hopping	Max Spurious Level [dBm]	Limit [dBm]	Verdict		
		0.400	-0.435	Off	-49.676	-20.44	PASS		
2-21/	LCH	2402	0.447	On	-49.545	-19.55	PASS		
GFSK	НСН		-1.175	Off	-49.485	-21.18	PASS		
		2480	0.059	On	-48.819	-19.94	PASS		
	LCH				-2.096	Off	-49.172	-22.1	PASS
		2402	-1.007	On	-48.107	-21.01	PASS		
π/4DQPSK	нсн		-2.520	Off	-48.412	-22.52	PASS		
		2480	-1.508	On	-47.662	-21.51	PASS		
			-1.949	Off	-49.932	-21.95	PASS		
	LCH	2402	-1.302	On	-48.729	-21.3	PASS		
8DPSK			-2.541	Off	-49.588	-22.54	PASS		
	HCH	2480	-1.182	On	-48.223	-21.18	PASS		

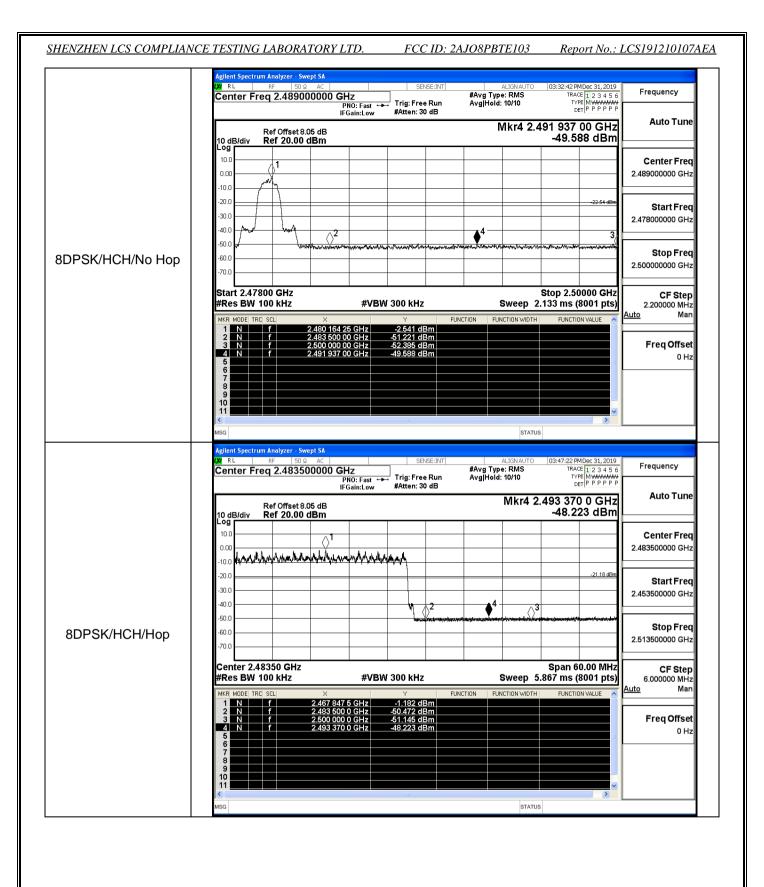








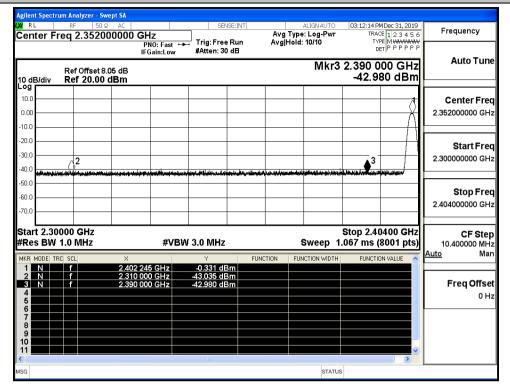




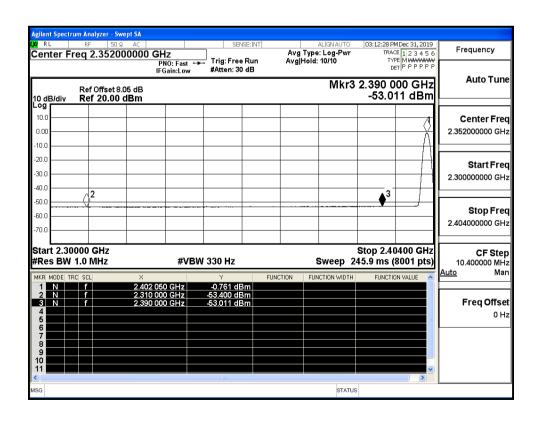
A.8 Restrict-band band-edge measurements

Test Mode	Hopping	Freq.	Power [dBm]	Gain	Ground Factor	E [dBuV/m]	Detector	Limit [dBuV/m]	Verdict
	Off	2310.0	-43.04	2.0	0	54.22	PEAK	74	PASS
	Off	2310.0	-53.40	2.0	0	43.86	AV	54	PASS
	Off	2390.0	-42.98	2.0	0	54.28	PEAK	74	PASS
	Off	2390.0	-53.01	2.0	0	44.25	AV	54	PASS
GFSK	Off	2483.5	-41.17	2.0	0	56.09	PEAK	74	PASS
	Off	2483.5	-52.60	2.0	0	44.65	AV	54	PASS
	Off	2500.0	-41.41	2.0	0	55.85	PEAK	74	PASS
	Off	2500.0	-52.42	2.0	0	44.84	AV	54	PASS
	Off	2310.0	-43.47	2.0	0	53.79	PEAK	74	PASS
	Off	2310.0	-53.47	2.0	0	43.79	AV	54	PASS
	Off	2390.0	-43.29	2.0	0	53.96	PEAK	74	PASS
	Off	2390.0	-52.98	2.0	0	44.28	AV	54	PASS
π/4DQPSK	Off	2483.5	-41.08	2.0	0	56.18	PEAK	74	PASS
	Off	2483.5	-52.43	2.0	0	44.82	AV	54	PASS
	Off	2500.0	-42.32	2.0	0	54.94	PEAK	74	PASS
	Off	2500.0	-52.34	2.0	0	44.92	AV	54	PASS
	Off	2310.0	-43.54	2.0	0	53.72	PEAK	74	PASS
	Off	2310.0	-53.33	2.0	0	43.93	AV	54	PASS
	Off	2390.0	-43.55	2.0	0	53.71	PEAK	74	PASS
	Off	2390.0	-53.02	2.0	0	44.23	AV	54	PASS
8DPSK	Off	2483.5	-41.09	2.0	0	56.16	PEAK	74	PASS
	Off	2483.5	-52.42	2.0	0	44.84	AV	54	PASS
	Off	2500.0	-42.13	2.0	0	55.13	PEAK	74	PASS
	Off	2500.0	-52.36	2.0	0	44.90	AV	54	PASS

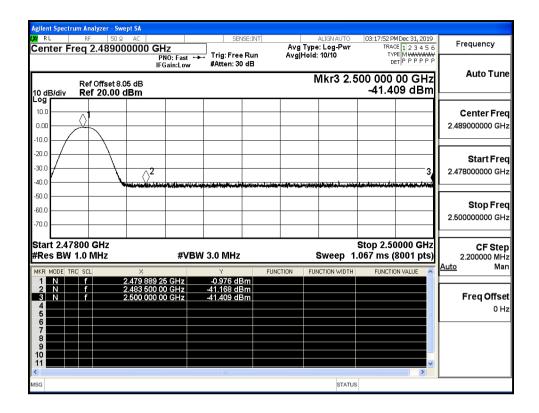




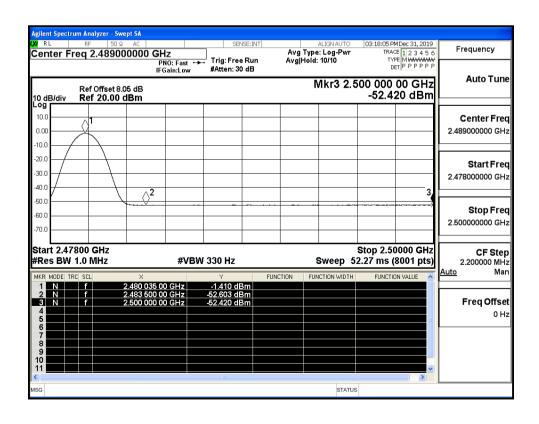
Restrict-band band-edge measurements_Hopping Off_ GFSK_Average (Low Channel)



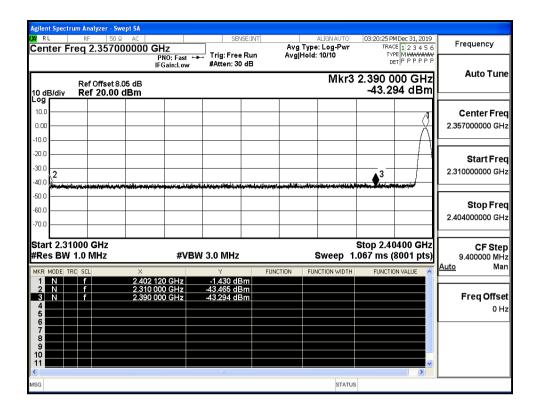
Restrict-band band-edge measurements_Hopping Off_ GFSK_PEAK (High Channel)



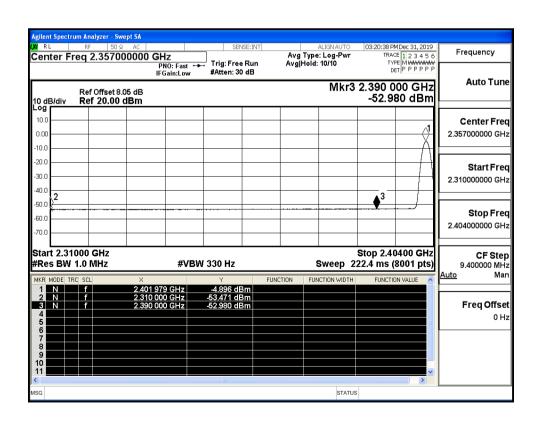
Restrict-band band-edge measurements_Hopping Off_ GFSK_Average (High Channel)



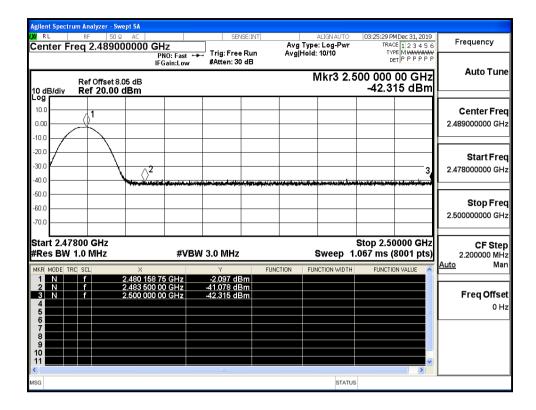
Restrict-band band-edge measurements_Hopping Off_π/4-DQPSK_PEAK (Low Channel)



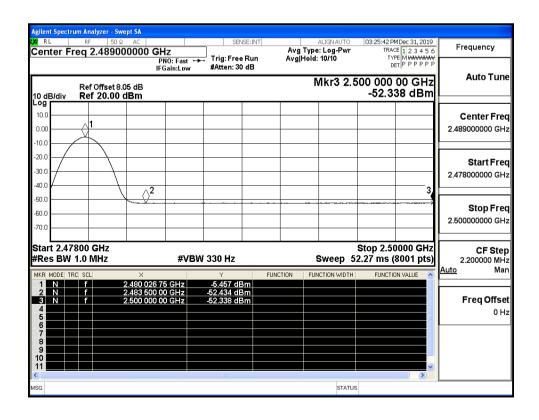
Restrict-band band-edge measurements_Hopping Off_π/4-DQPSK_Average (Low Channel)



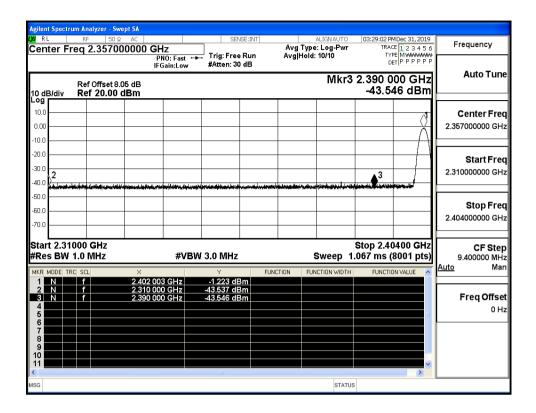
Restrict-band band-edge measurements_Hopping Off_π/4-DQPSK_PEAK (High Channel)



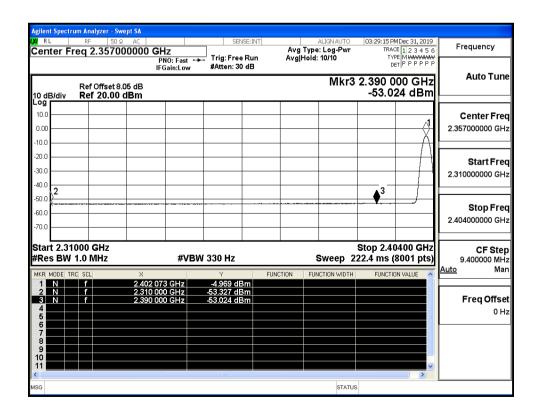
Restrict-band band-edge measurements_Hopping Off_π/4-DQPSK_Average (High Channel)



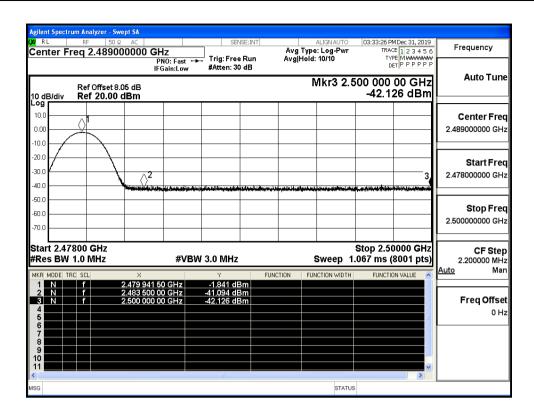
Restrict-band band-edge measurements_Hopping Off_8DPSK_PEAK (Low Channel)



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



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



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

