Appendix A

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

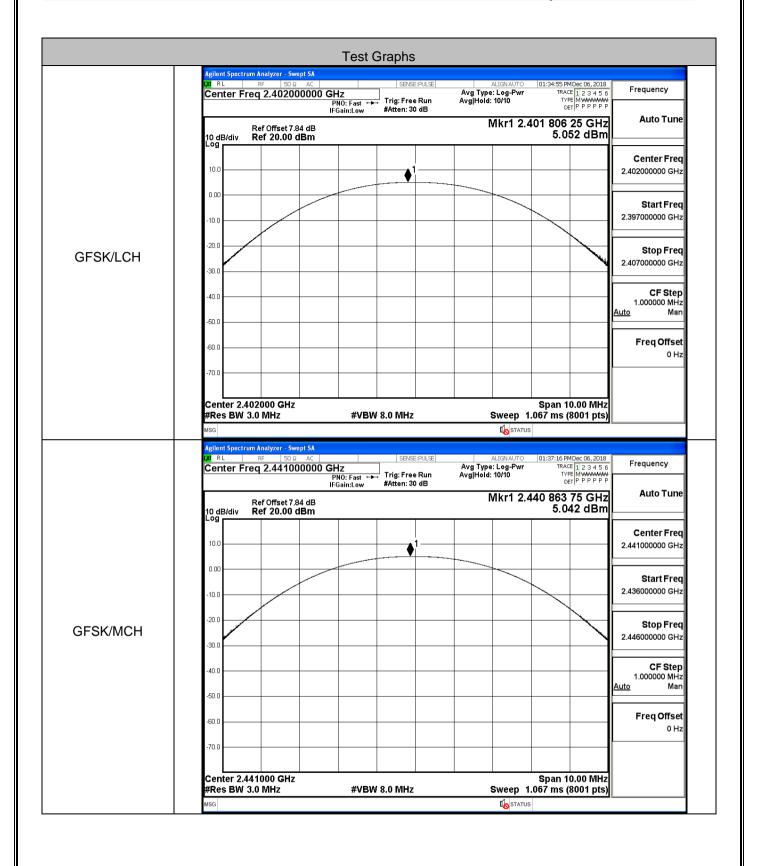
Product Name: LTE GSM/WCDMA Smartphone Trade Mark: DOOGEE Test Model: S70

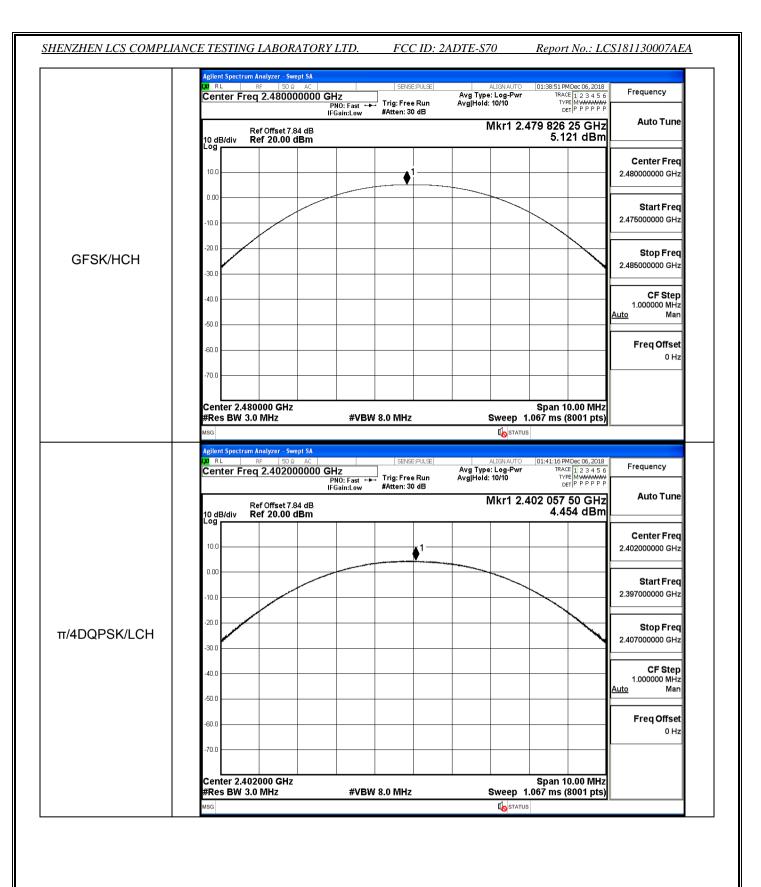
Environmental Conditions

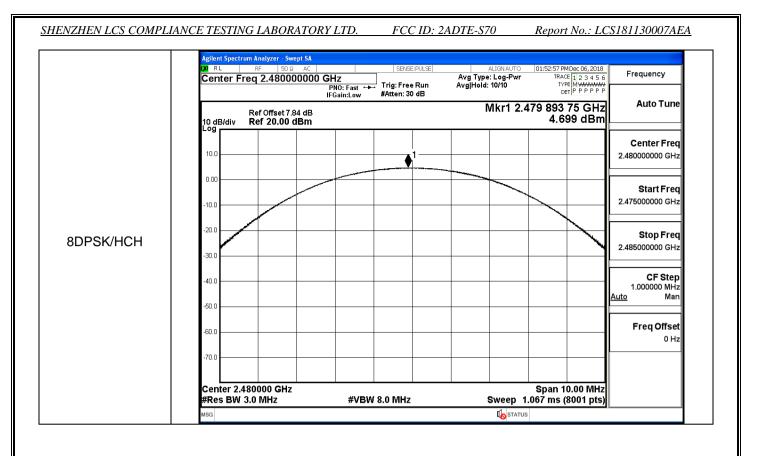
-	
Temperature:	22.8 ° C
Relative Humidity:	53.2%
ATM Pressure:	100.0 kPa
Test Engineer:	Mina.Xu
Supervised by:	Jayden.Zhuo

A.1 Maxmum Conducted Peak Output Power

Mode	Channel.	Maximum Peak Output Power [dBm]	Limit [dBm]	Verdict
	LCH	5.052	30	PASS
GFSK	MCH	5.042	30	PASS
	НСН	5.121	30	PASS
	LCH	4.454	21	PASS
π/4DQPSK	MCH	4.481	21	PASS
	НСН	4.619	21	PASS
	LCH	4.545	21	PASS
8DPSK	MCH	4.575	21	PASS
	НСН	4.699	21	PASS

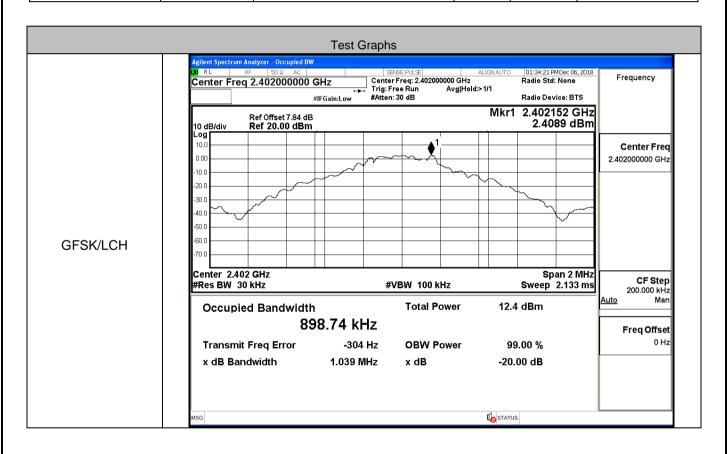


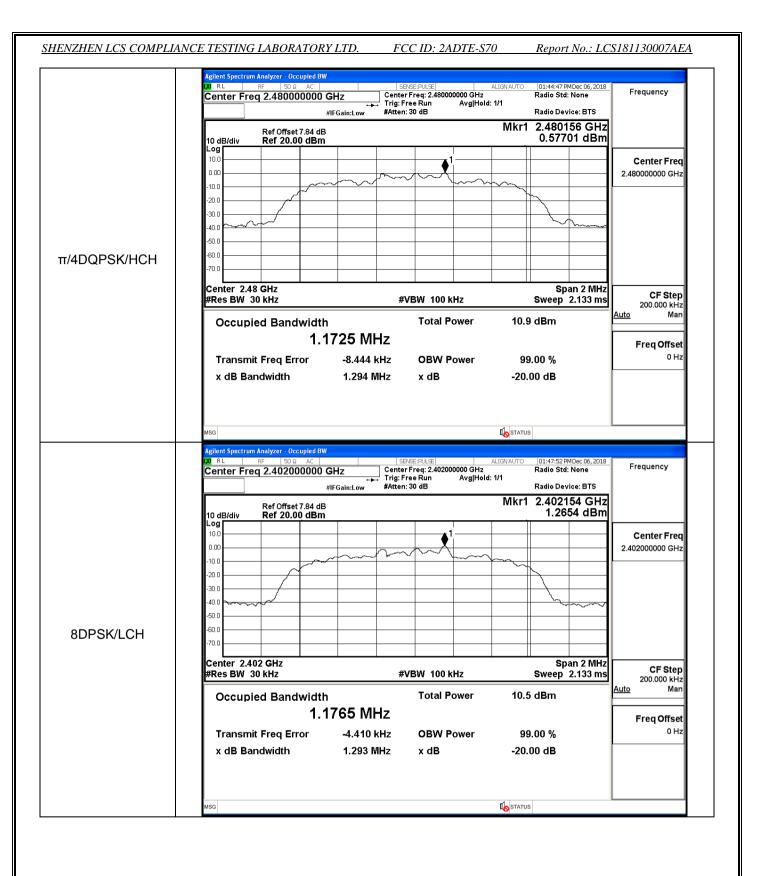




A.2 20dB Bandwidth

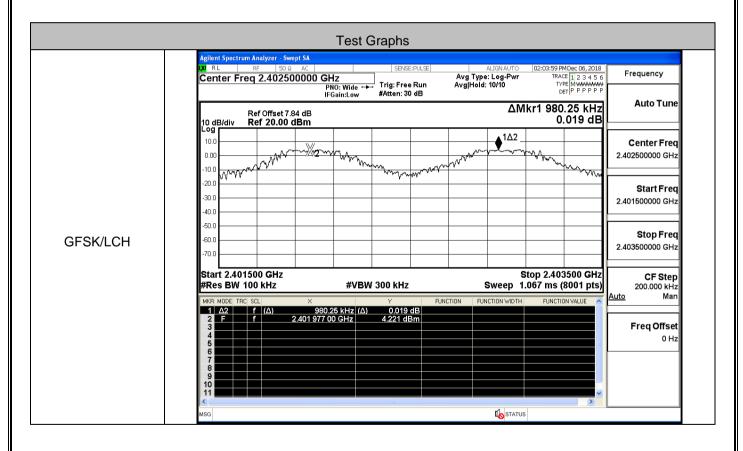
Mode	Channel.	20dB Bandwidth [MHz]	Limit [MHz]	Verdict
	LCH	1.039	Not Specified	PASS
GFSK	MCH	1.033	Not Specified	PASS
	HCH	1.035	Not Specified	PASS
	LCH	1.288	Not Specified	PASS
π/4DQPSK	MCH	1.289	Not Specified	PASS
	HCH	1.294	Not Specified	PASS
	LCH	1.293	Not Specified	PASS
8DPSK	MCH	1.294	Not Specified	PASS
	HCH	1.298	Not Specified	PASS



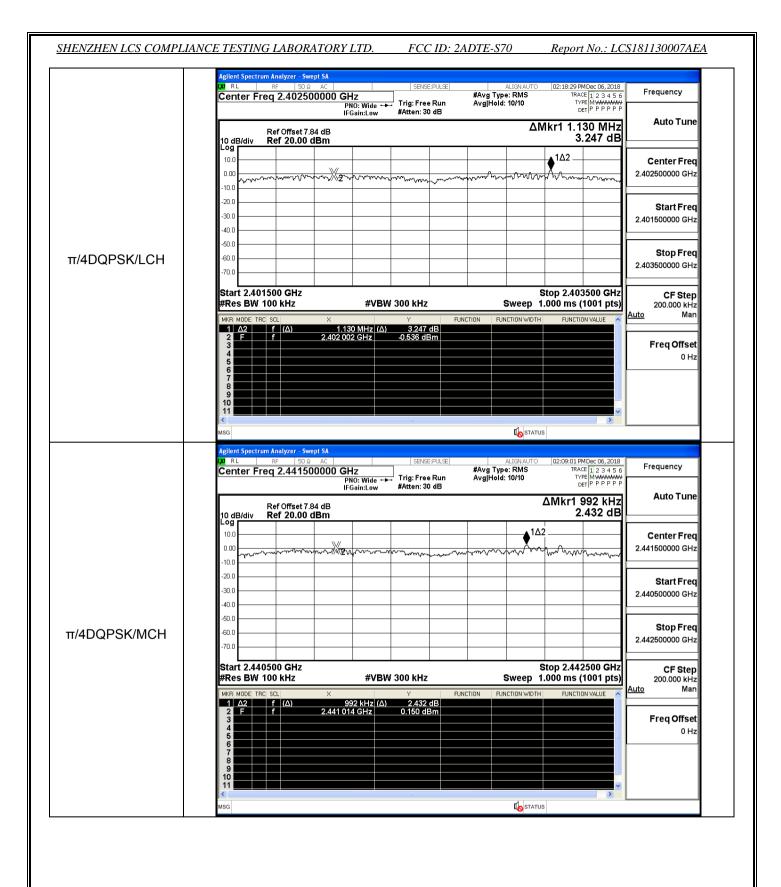


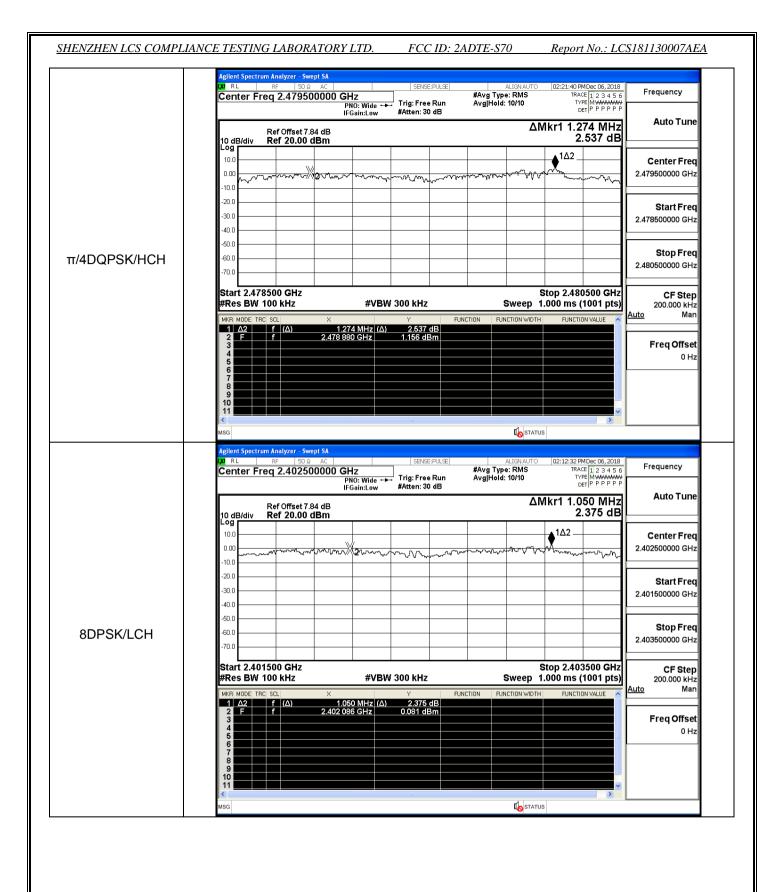
A.3 Carrier Frequency Separation

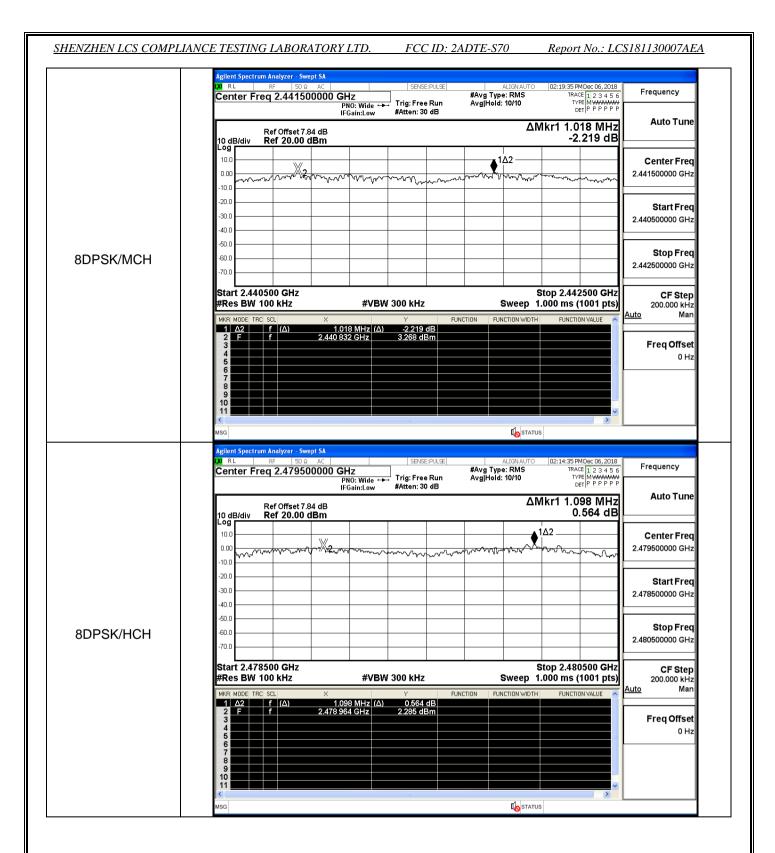
Mode	Channel.	Carrier Frequency Separation [MHz]	Limit [MHz]	Verdict
	LCH	0.980	0.693	PASS
GFSK	MCH	0.990	0.693	PASS
	HCH	1.188	0.693	PASS
	LCH	1.130	0.863	PASS
π/4DQPSK	MCH	0.992	0.863	PASS
	HCH	1.274	0.863	PASS
8DPSK	LCH	1.050	0.865	PASS
	MCH	1.018	0.865	PASS
	HCH	1.098	0.865	PASS





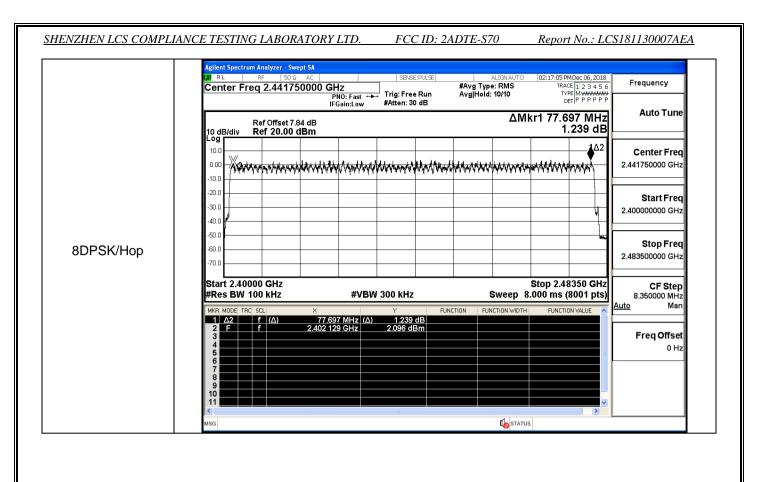






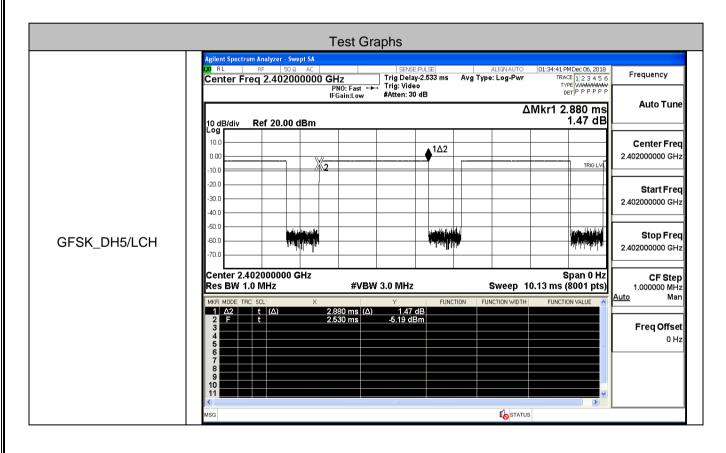
A.4 Hopping Channel Number

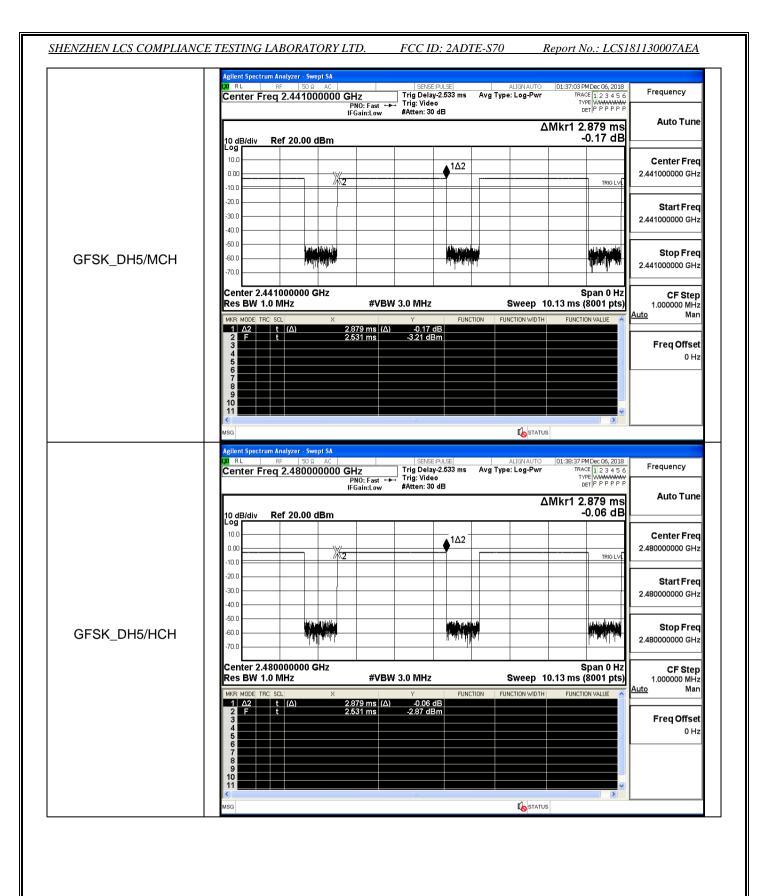
Mode	Channel.	Number of Hopping Channel [N]	Limit [N]	Verdict
GFSK	Нор	79	>=15	PASS
π/4DQPSK	Нор	79	>=15	PASS
8DPSK	Нор	79	>=15	PASS

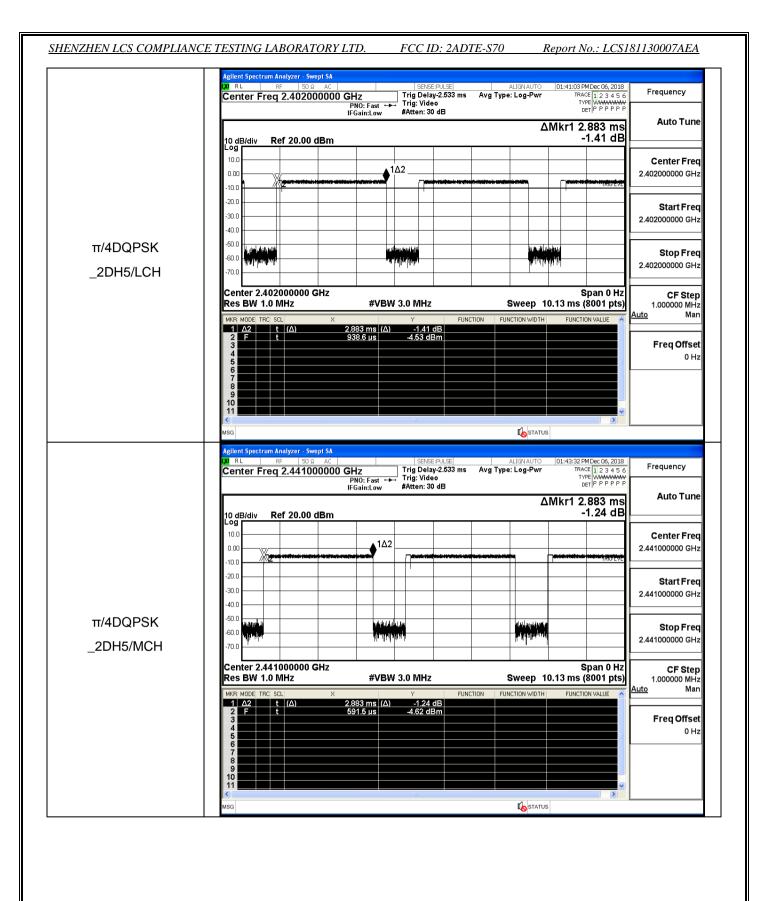


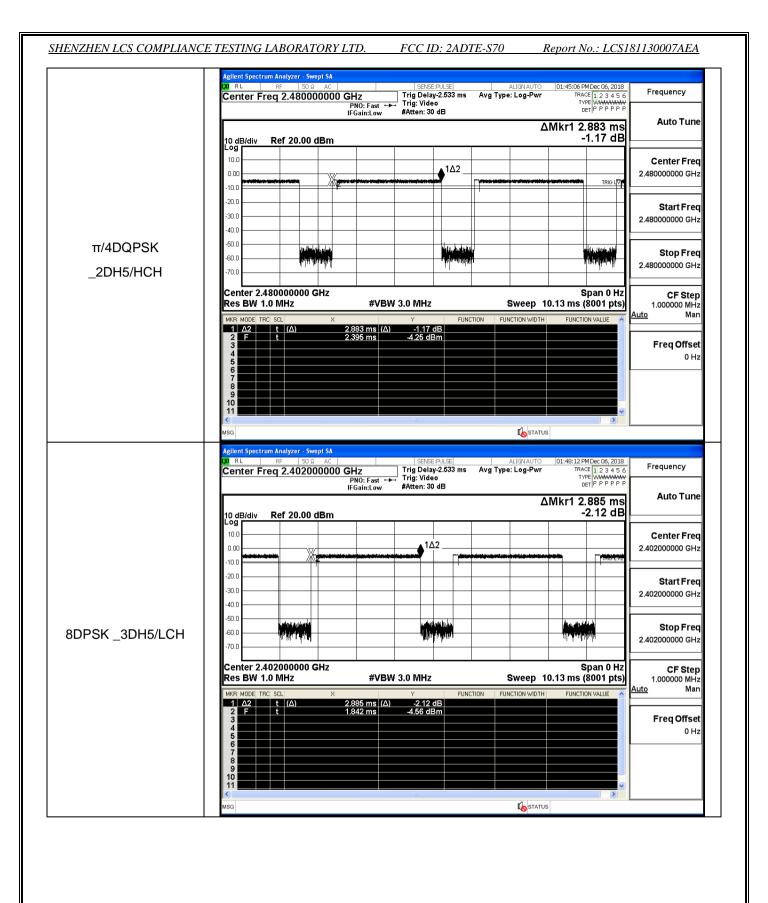
A.5 Dwell Time

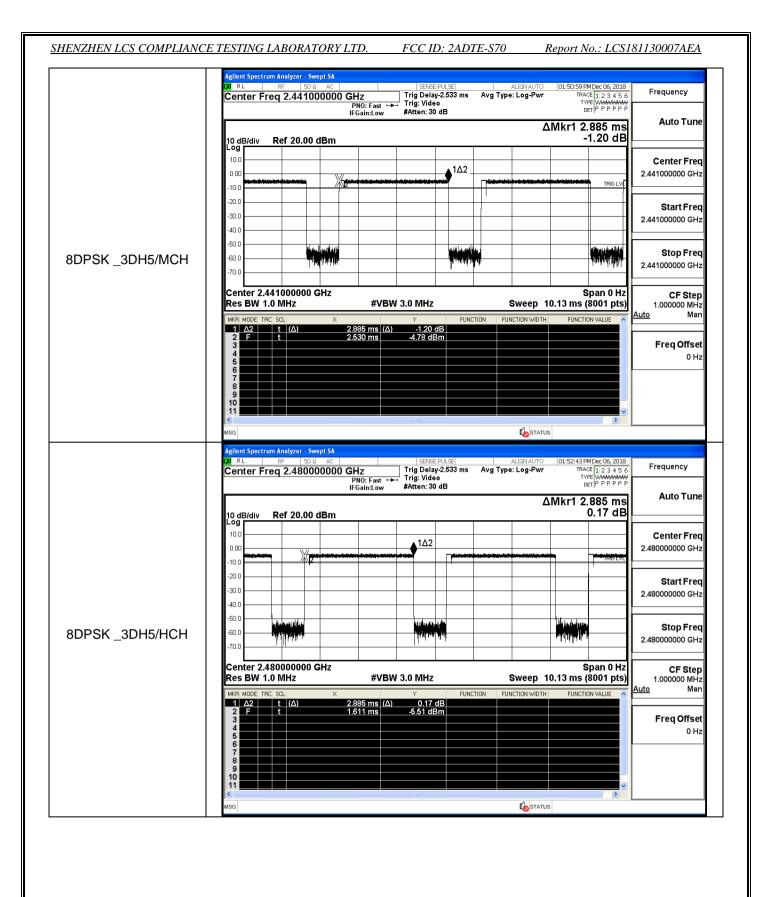
Mode	Packet	Channel	Burst Width [ms/hop/ch]	Total Hops[hop*ch]	Dwell Time[s]	Limit [s]	Verdict
	DH5	LCH	2.88	106.7	0.307	0.4	PASS
GFSK	DH5	MCH	2.88	106.7	0.307	0.4	PASS
	DH5	HCH	2.88	106.7	0.307	0.4	PASS
	2DH5	LCH	2.88	106.7	0.307	0.4	PASS
π/4DQPSK	2DH5	MCH	2.88	106.7	0.307	0.4	PASS
	2DH5	HCH	2.88	106.7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





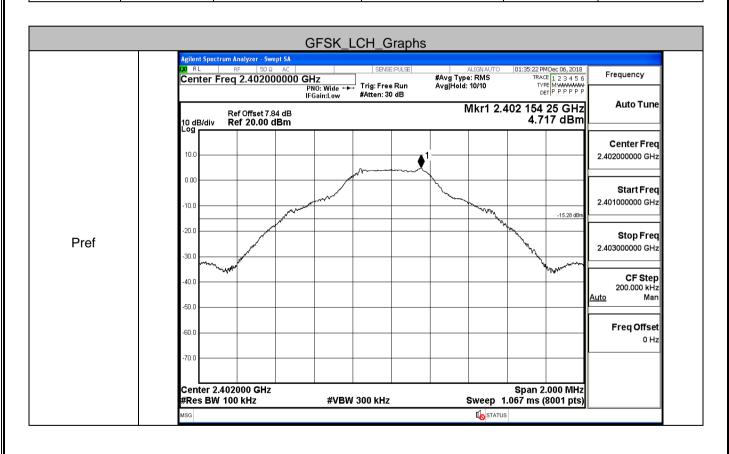


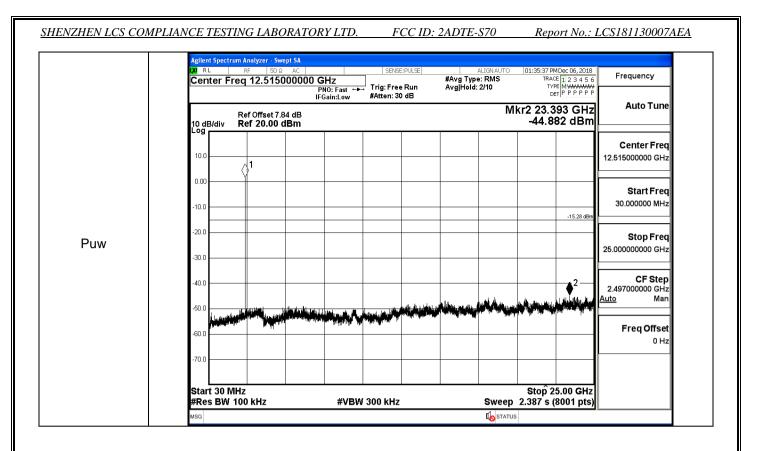


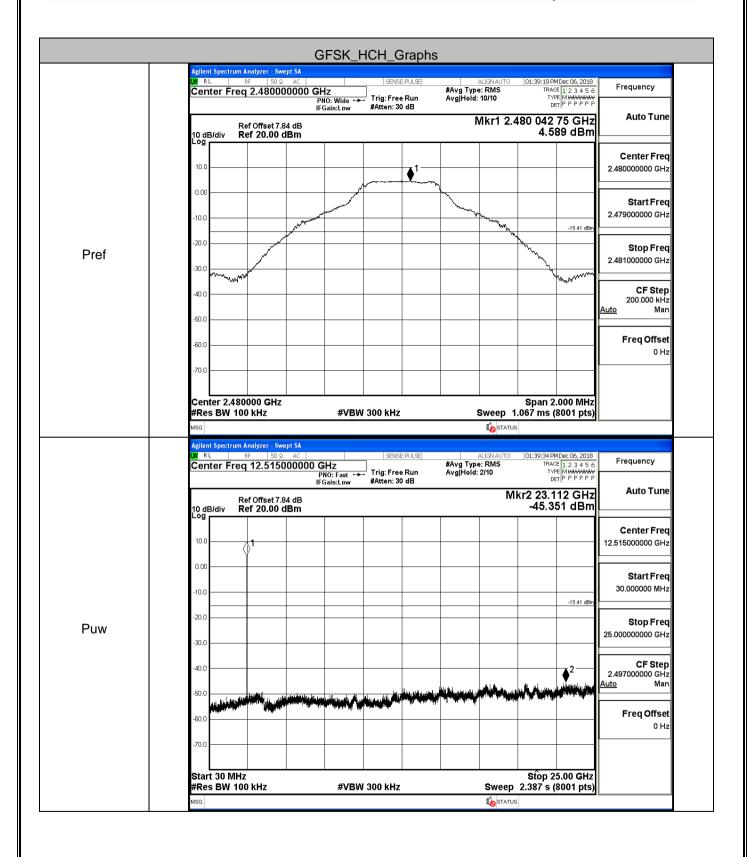


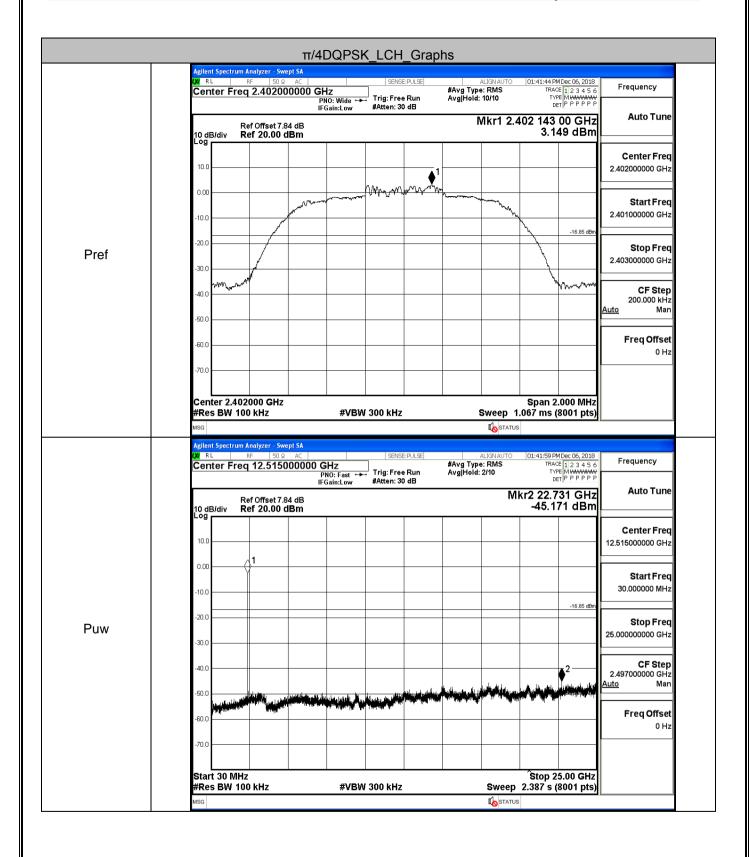
A.6 RF Conducted Spurious Emissions

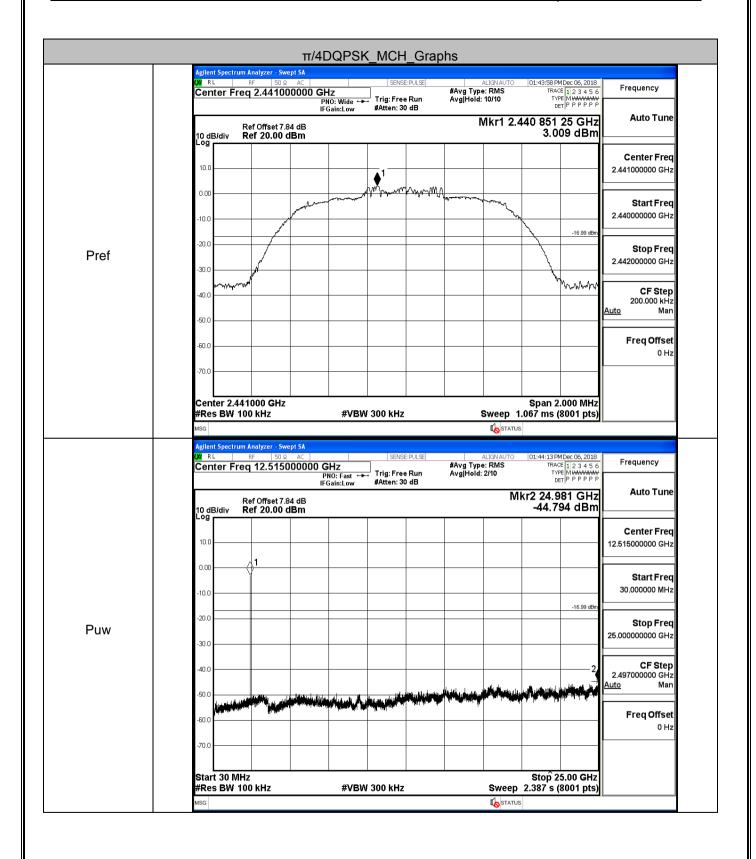
Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
	LCH	4.717	-44.882	-15.283	PASS
GFSK	MCH	4.65	-45.157	-15.350	PASS
	НСН	4.589	-45.351	-15.411	PASS
	LCH	3.149	-45.171	-16.851	PASS
π/4DQPSK	MCH	3.009	-44.794	-16.991	PASS
	НСН	3.507	-39.451	-16.493	PASS
	LCH	3.323	-45.468	-16.677	PASS
8DPSK	MCH	3.378	-44.874	-16.622	PASS
	НСН	3.552	-44.751	-16.448	PASS

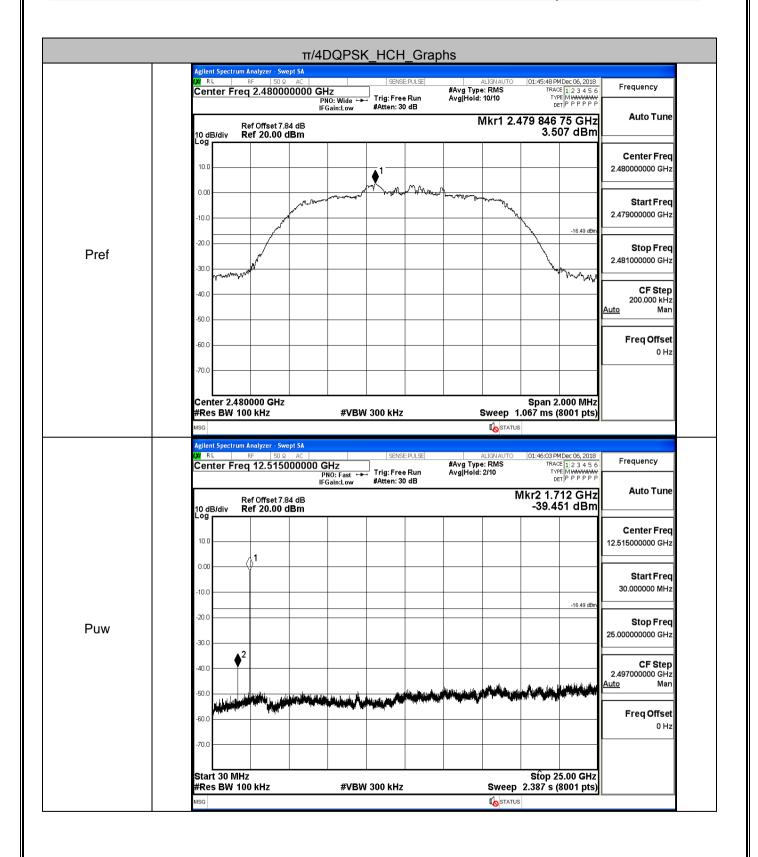


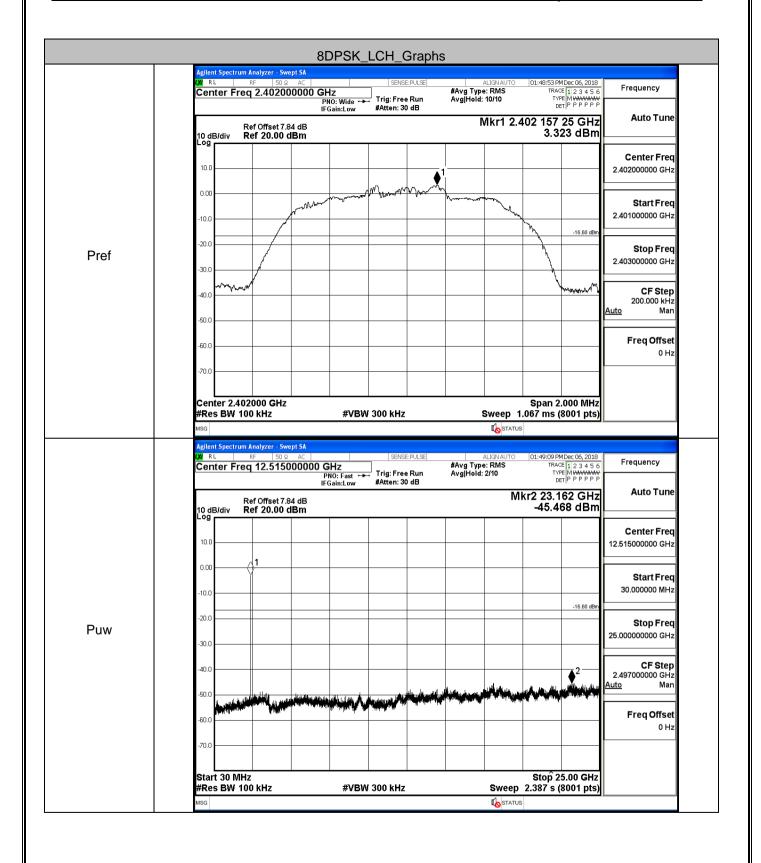


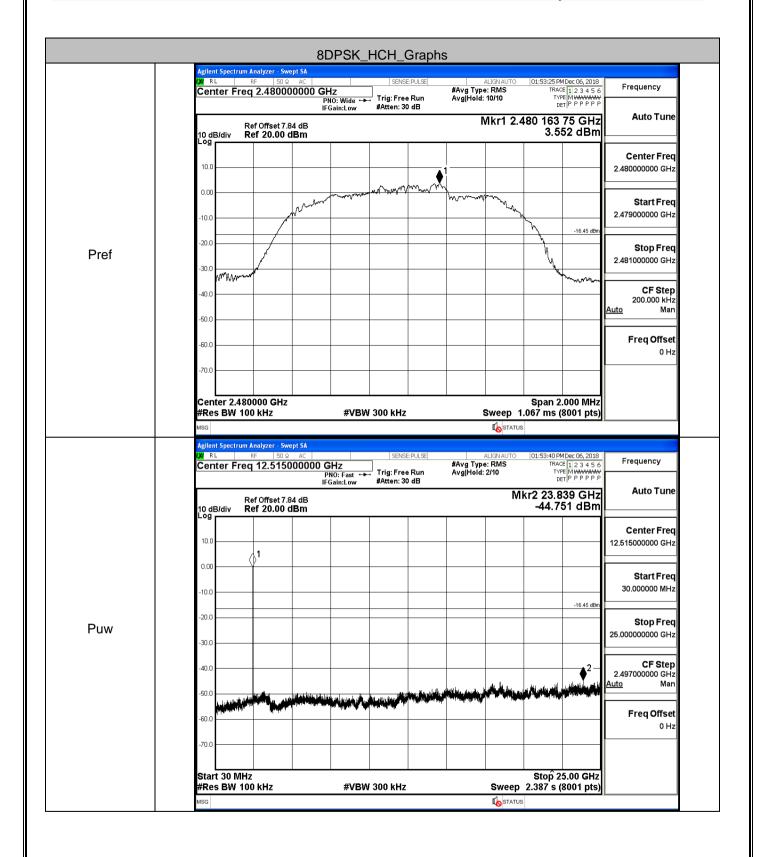






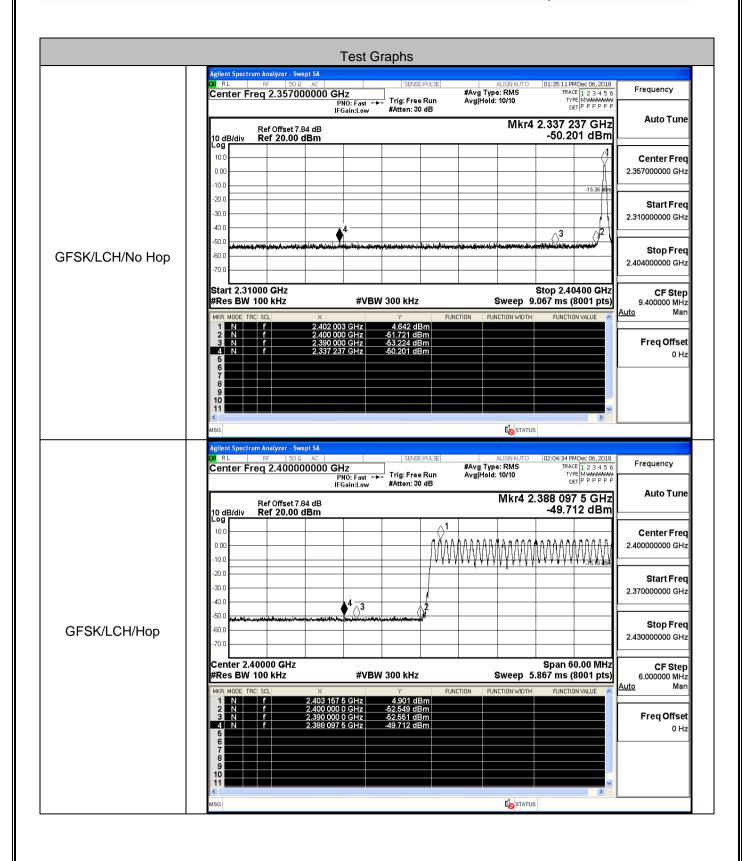


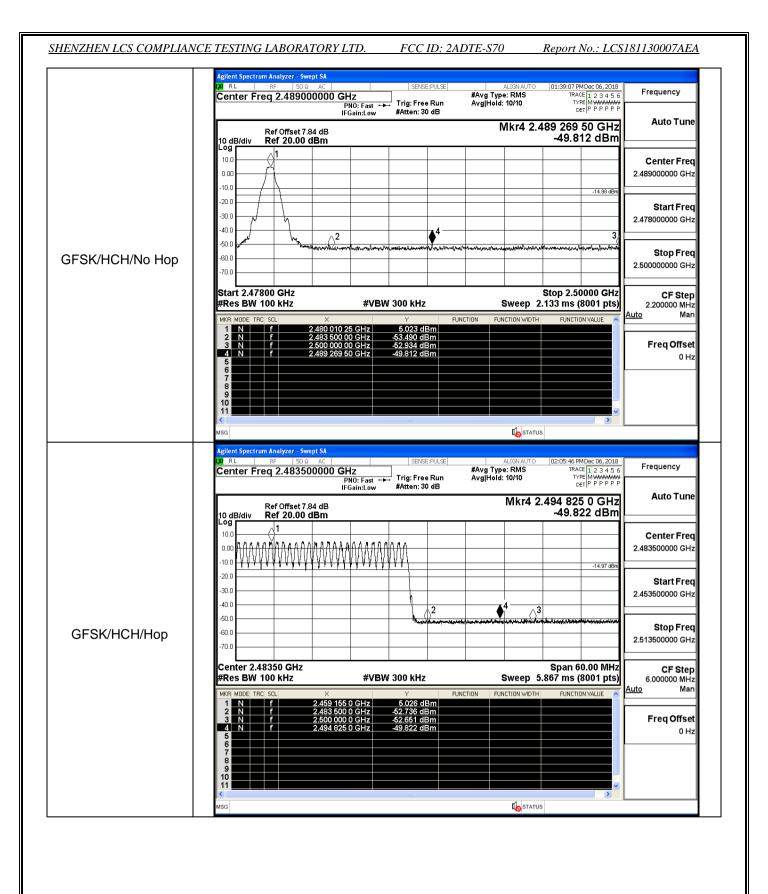


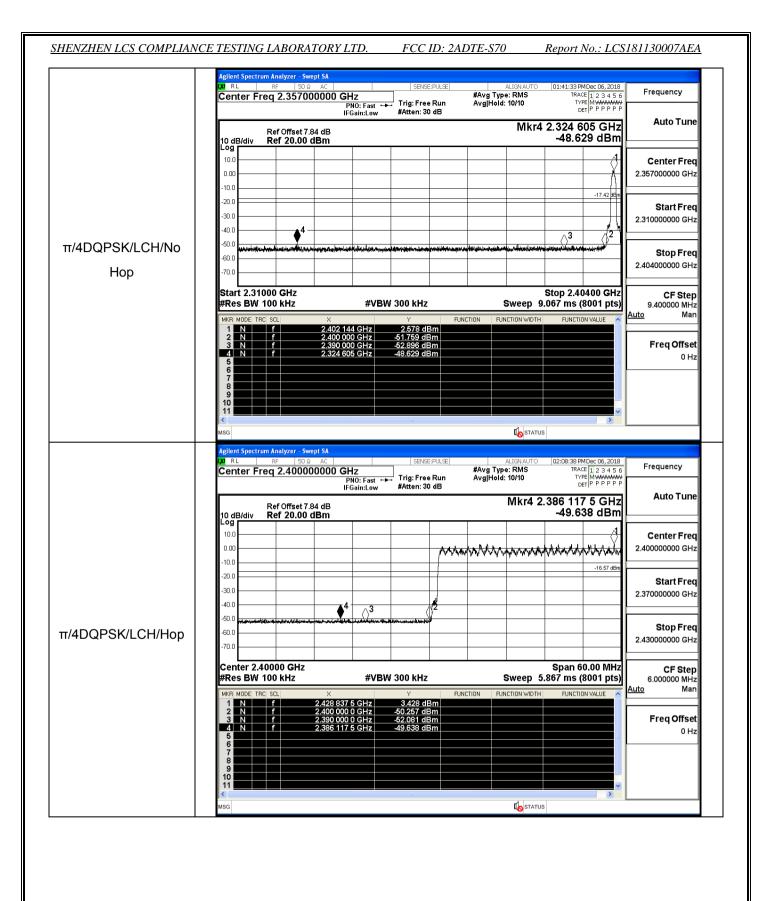


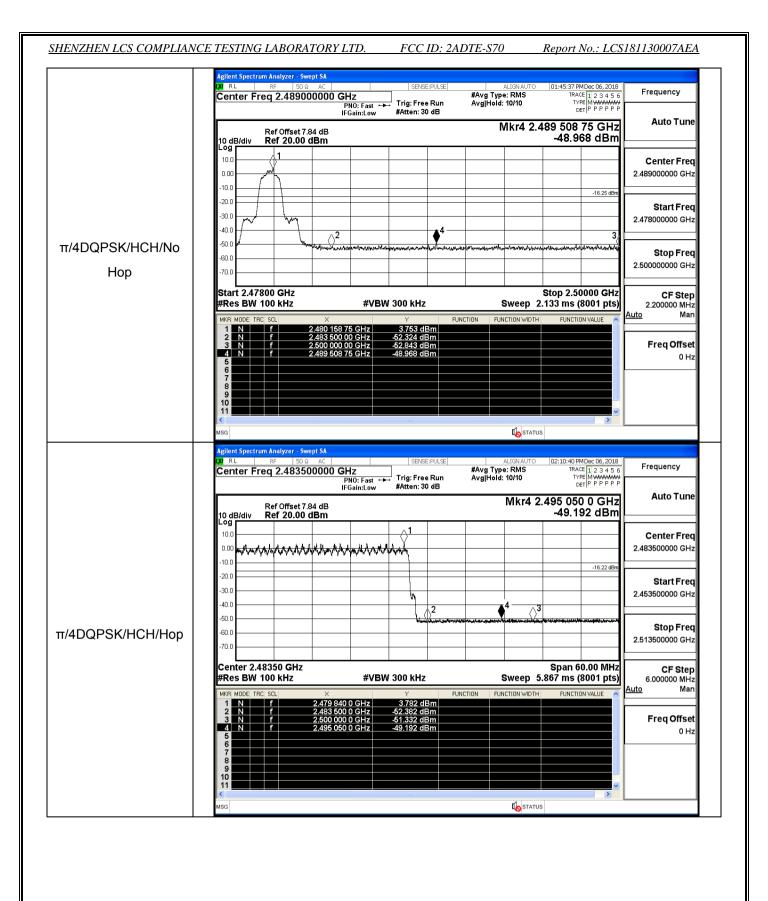
A.7 Band-edge for RF Conducted Emissions

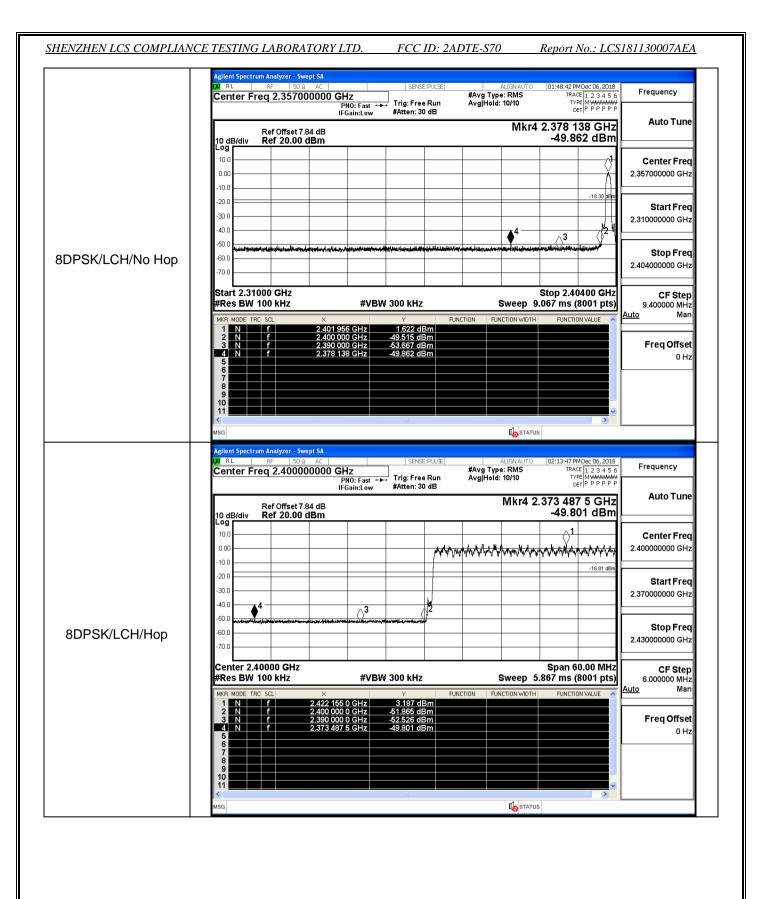
Mode	Channel	Carrier Frequency [MHz]	Carrier Power [dBm]	Frequency Hopping	Max Spurious Level [dBm]	Limit [dBm]	Verdict		
		0.400	4.642	Off	-50.201	-15.36	PASS		
0.501/	LCH	2402	4.901	On	-49.712	-15.1	PASS		
GFSK	нсн	2480	5.023	Off	-49.812	-14.98	PASS		
			5.026	On	-49.822	-14.97	PASS		
	LCH				2.578	Off	-48.629	-17.42	PASS
		2402	3.428	On	-49.638	-16.57	PASS		
π/4DQPSK	нсн		3.753	Off	-48.968	-16.25	PASS		
		2480	3.782	On	-49.192	-16.22	PASS		
			1.622	Off	-49.862	-18.38	PASS		
	LCH	2402	3.187	On	-49.801	-16.81	PASS		
8DPSK			2.898	Off	-50.185	-17.1	PASS		
	HCH	2480	3.665	On	-49.287	-16.34	PASS		

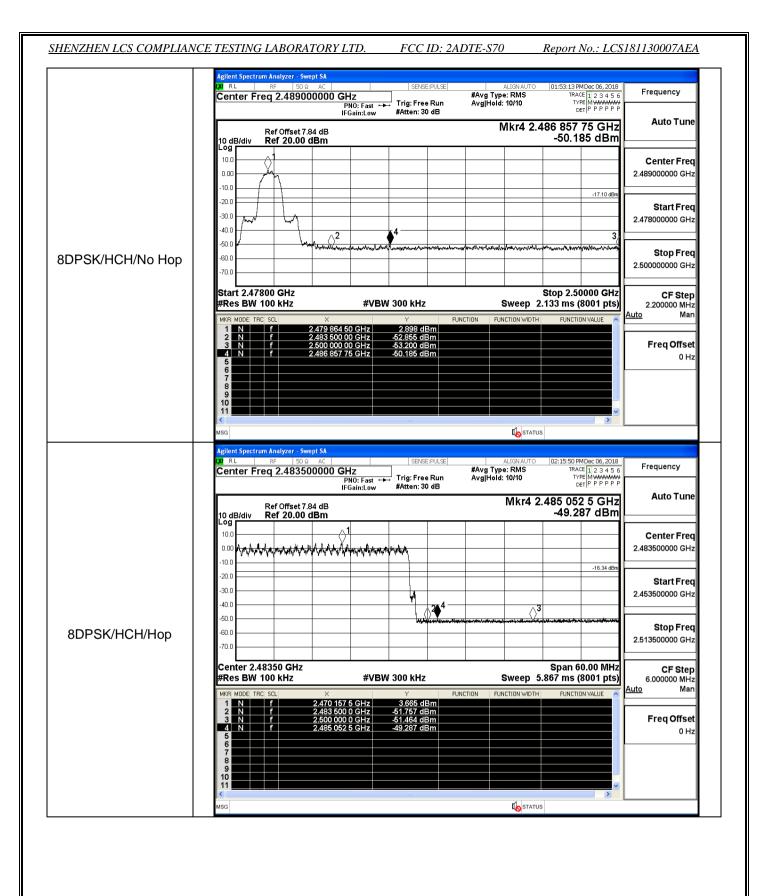






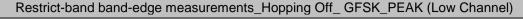


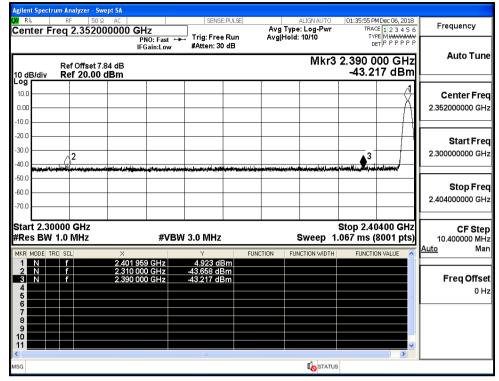




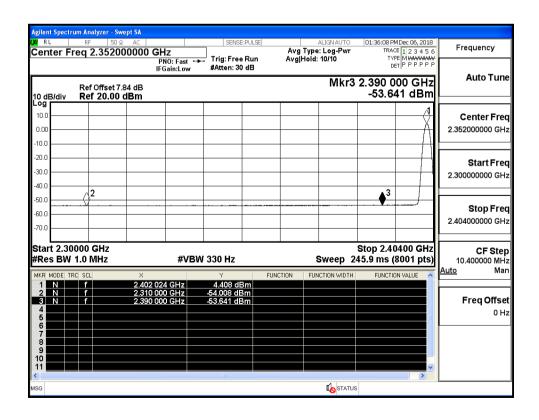
A.8 Restrict-band band-edge measurements

Test Mode	Hopping	Freq.	Power [dBm]	Gain	Ground Factor	E [dBuV/m]	Detector	Limit [dBuV/m]	Verdict
	Off	2310.0	-43.66	2.0	0	53.60	PEAK	74	PASS
	Off	2310.0	-54.01	2.0	0	43.25	AV	54	PASS
	Off	2390.0	-43.22	2.0	0	54.04	PEAK	74	PASS
	Off	2390.0	-53.64	2.0	0	43.62	AV	54	PASS
GFSK	Off	2483.5	-43.16	2.0	0	54.10	PEAK	74	PASS
	Off	2483.5	-53.04	2.0	0	44.21	AV	54	PASS
	Off	2500.0	-42.85	2.0	0	54.41	PEAK	74	PASS
	Off	2500.0	-53.33	2.0	0	43.93	AV	54	PASS
	Off	2310.0	-44.40	2.0	0	52.86	PEAK	74	PASS
	Off	2310.0	-53.94	2.0	0	43.32	AV	54	PASS
	Off	2390.0	-42.86	2.0	0	54.40	PEAK	74	PASS
	Off	2390.0	-53.56	2.0	0	43.70	AV	54	PASS
π/4DQPSK	Off	2483.5	-42.12	2.0	0	55.14	PEAK	74	PASS
	Off	2483.5	-53.11	2.0	0	44.15	AV	54	PASS
	Off	2500.0	-43.34	2.0	0	53.91	PEAK	74	PASS
	Off	2500.0	-53.11	2.0	0	44.15	AV	54	PASS
	Off	2310.0	-43.95	2.0	0	53.30	PEAK	74	PASS
	Off	2310.0	-53.92	2.0	0	43.34	AV	54	PASS
	Off	2390.0	-43.95	2.0	0	53.31	PEAK	74	PASS
	Off	2390.0	-53.69	2.0	0	43.56	AV	54	PASS
8DPSK	Off	2483.5	-42.18	2.0	0	55.08	PEAK	74	PASS
	Off	2483.5	-52.94	2.0	0	44.31	AV	54	PASS
	Off	2500.0	-42.69	2.0	0	54.57	PEAK	74	PASS
	Off	2500.0	-53.24	2.0	0	44.01	AV	54	PASS

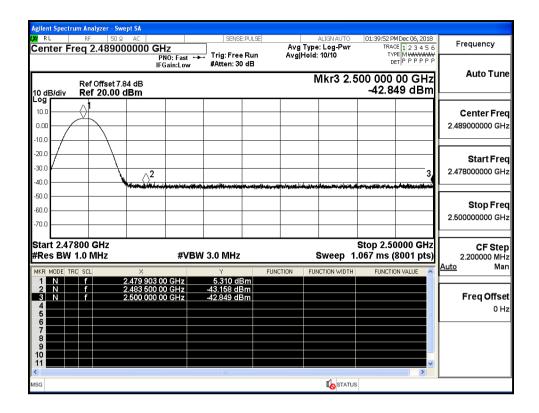




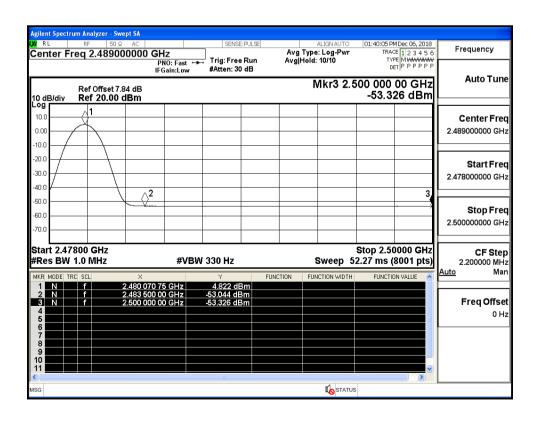
Restrict-band band-edge measurements_Hopping Off_ GFSK_Average (Low Channel)



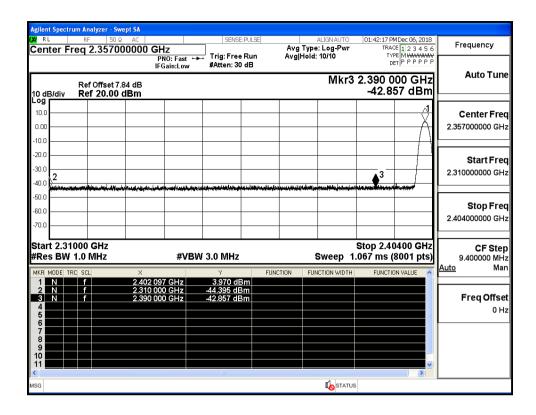
Restrict-band band-edge measurements_Hopping Off_ GFSK_PEAK (High Channel)



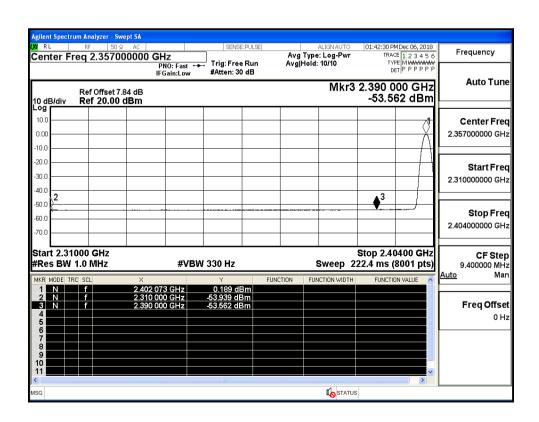
Restrict-band band-edge measurements_Hopping Off_ GFSK_Average (High Channel)



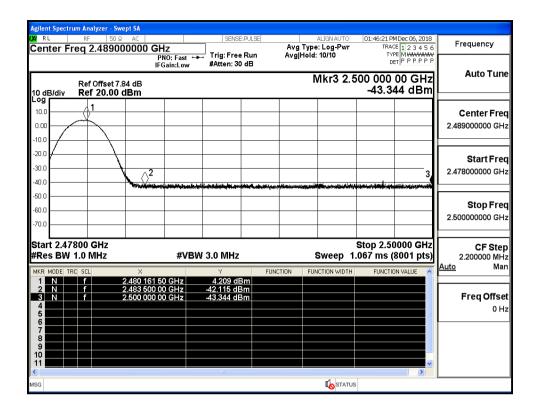
Restrict-band band-edge measurements_Hopping Off_π/4-DQPSK_PEAK (Low Channel)



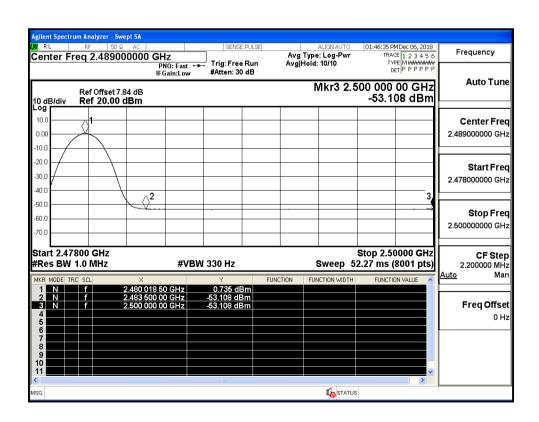
Restrict-band band-edge measurements_Hopping Off_π/4-DQPSK_Average (Low Channel)



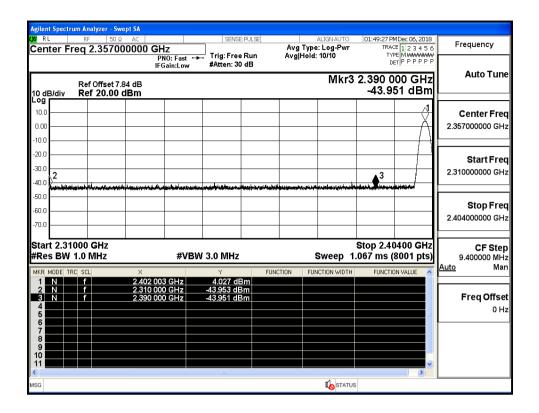
Restrict-band band-edge measurements_Hopping Off_π/4-DQPSK_PEAK (High Channel)



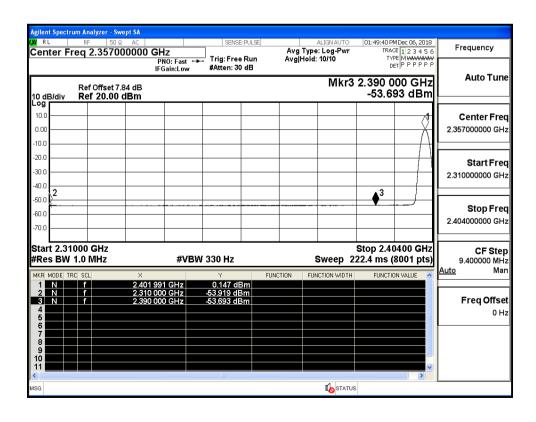
Restrict-band band-edge measurements_Hopping Off_π/4-DQPSK_Average (High Channel)



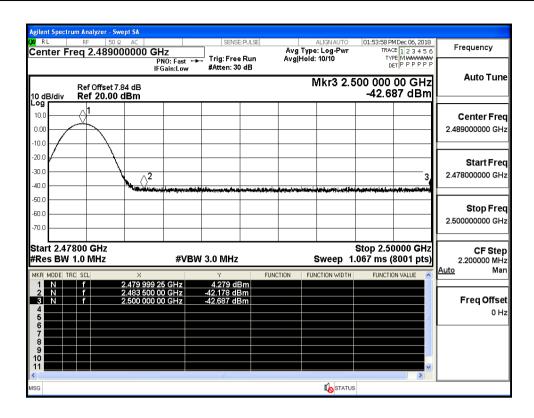
Restrict-band band-edge measurements_Hopping Off_8DPSK_PEAK (Low Channel)



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)

