Appendix A

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

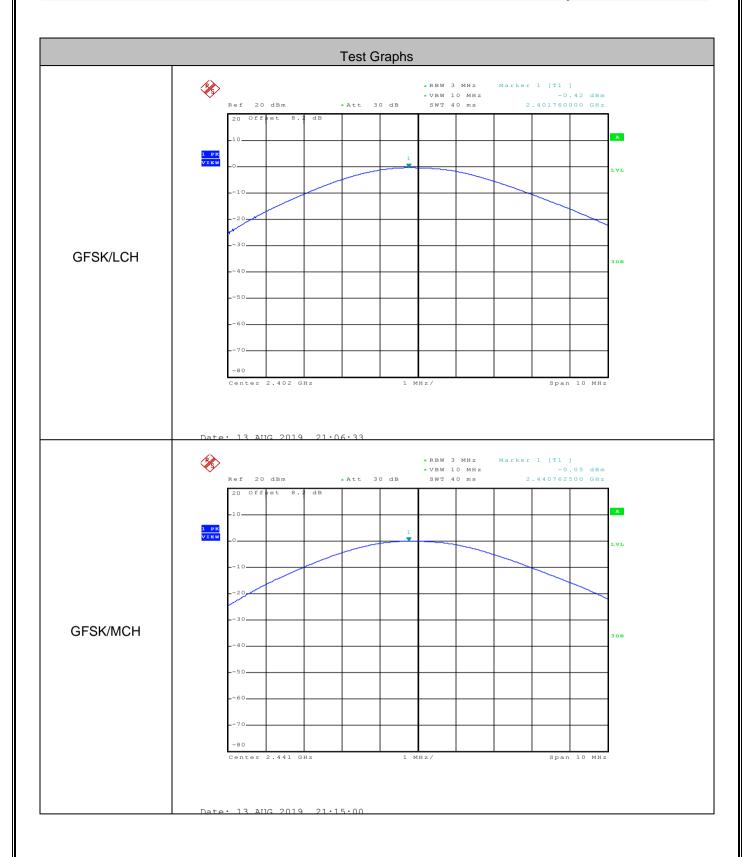
Product Name: TWS earbuds Trade Mark: N/A Test Model: XO-9832

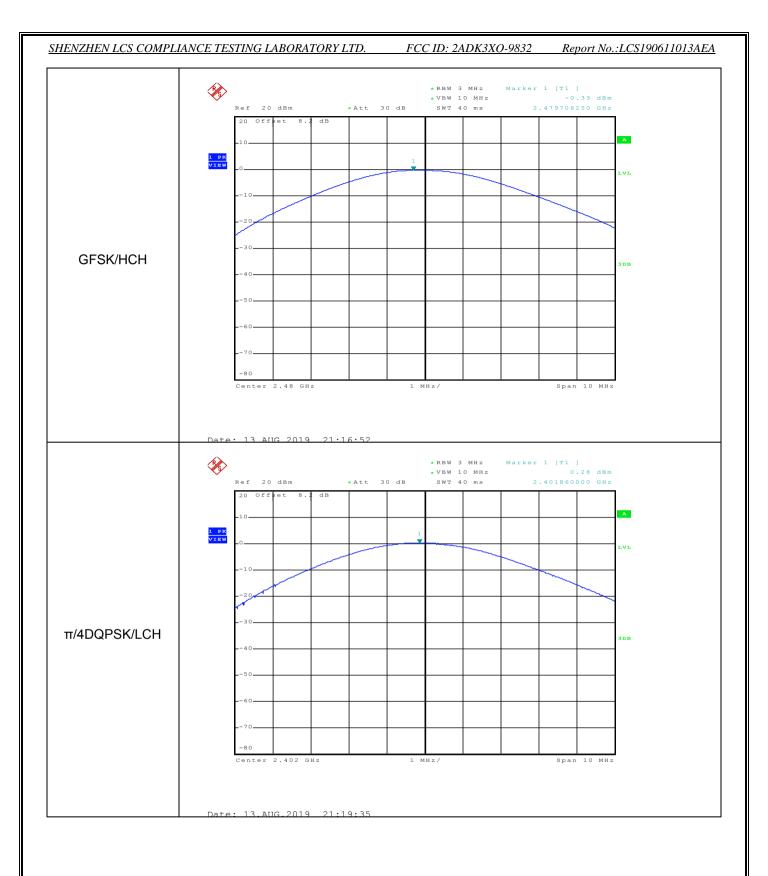
Environmental Conditions

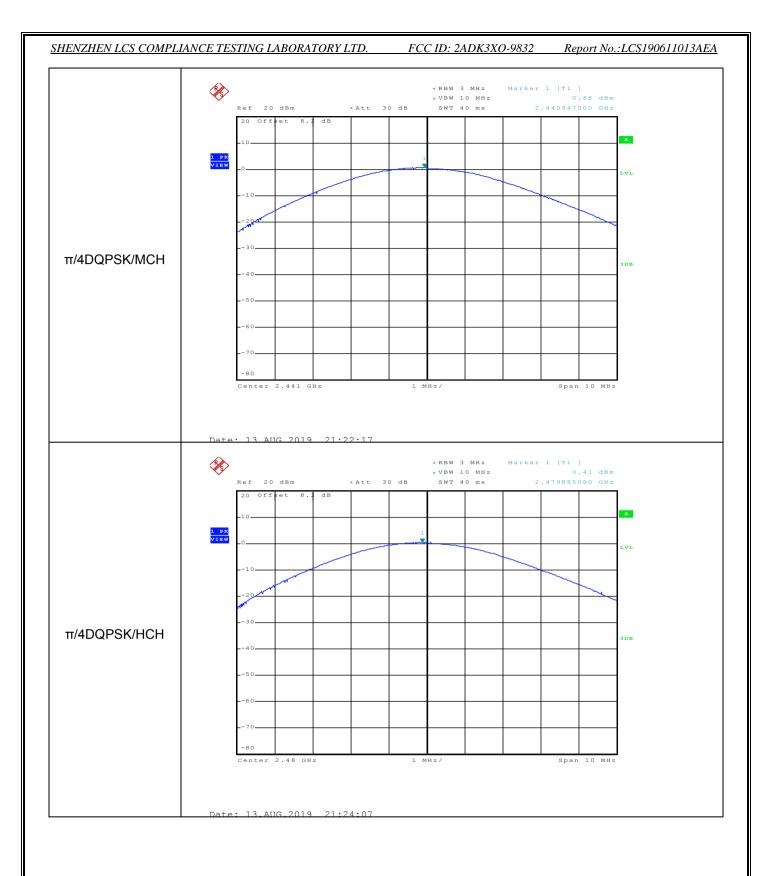
Temperature:	25 ° C
Relative Humidity:	50%
ATM Pressure:	100.0 kPa
Test Engineer:	JK zhou
Supervised by:	Wang.Chuang

A.1 Maxmum Conducted Peak Output Power

Mode	Channel.	Maximum Peak Output Power [dBm]	Limit [dBm]	Verdict
	LCH	-0.420	30	PASS
GFSK	MCH	-0.050	30	PASS
	НСН	-0.330	30	PASS
	LCH	0.280	21	PASS
π/4DQPSK	MCH	0.650	21	PASS
	HCH	0.410	21	PASS

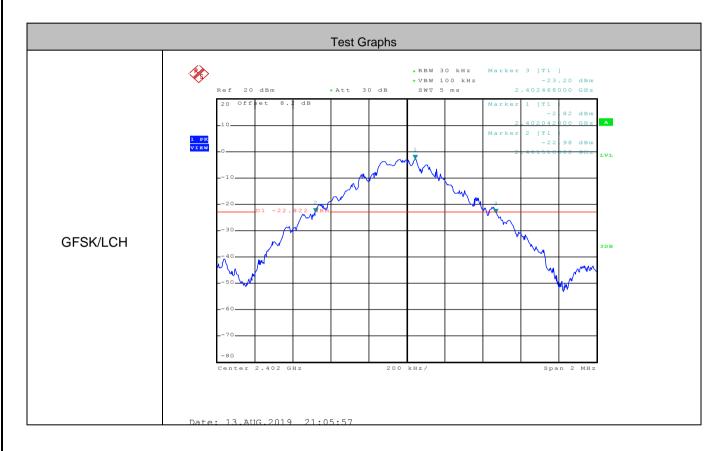


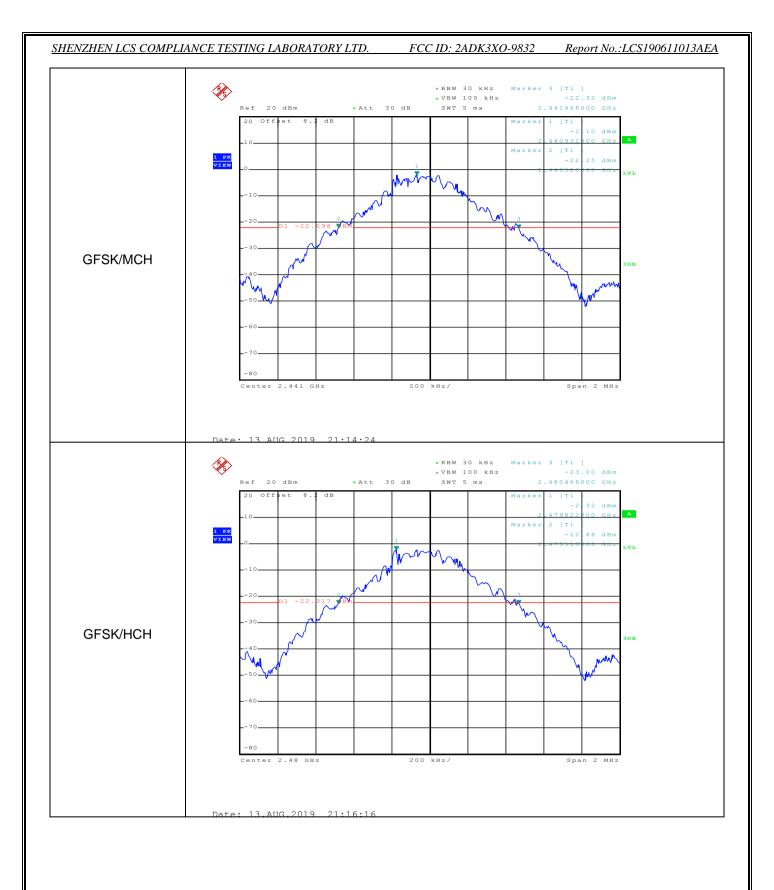


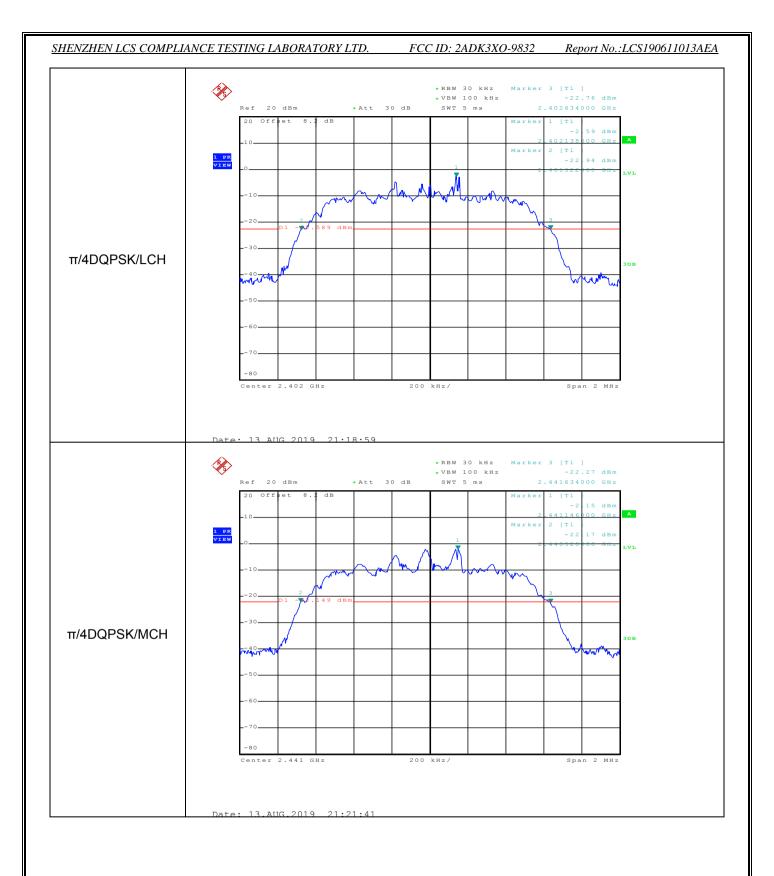


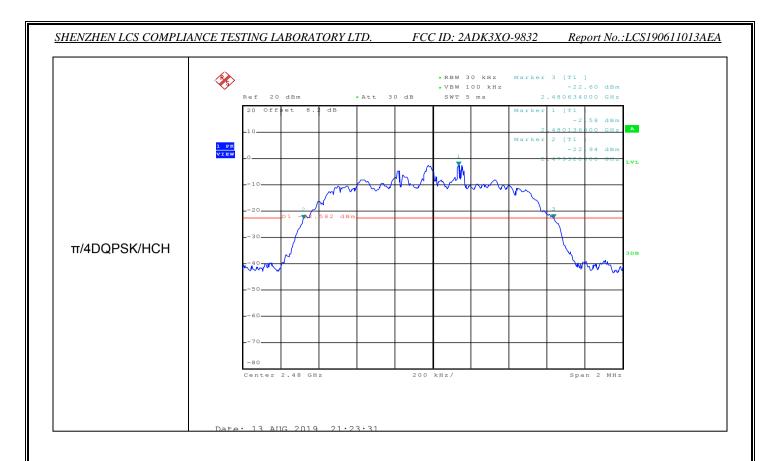
A.2 20dB Bandwidth

Mode	Channel.	20dB Bandwidth [MHz]	Limit [MHz]	Verdict
	LCH	0.950	Not Specified	PASS
GFSK	MCH	0.948	Not Specified	PASS
	НСН	0.950	Not Specified	PASS
	LCH	1.312	Not Specified	PASS
π/4DQPSK	MCH	1.314	Not Specified	PASS
	HCH	1.314	Not Specified	PASS



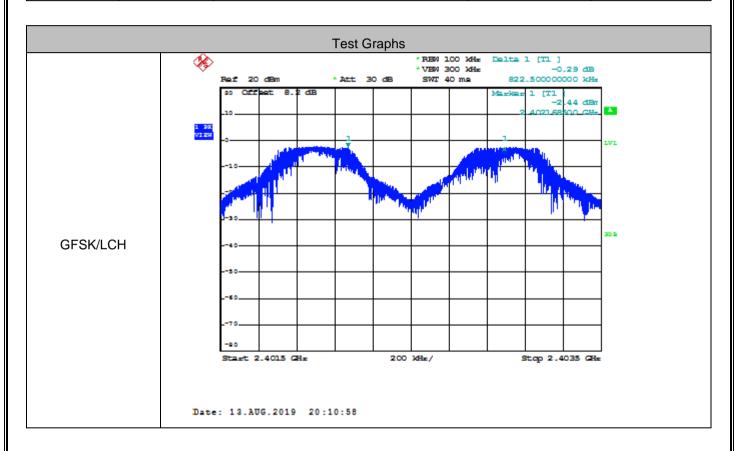


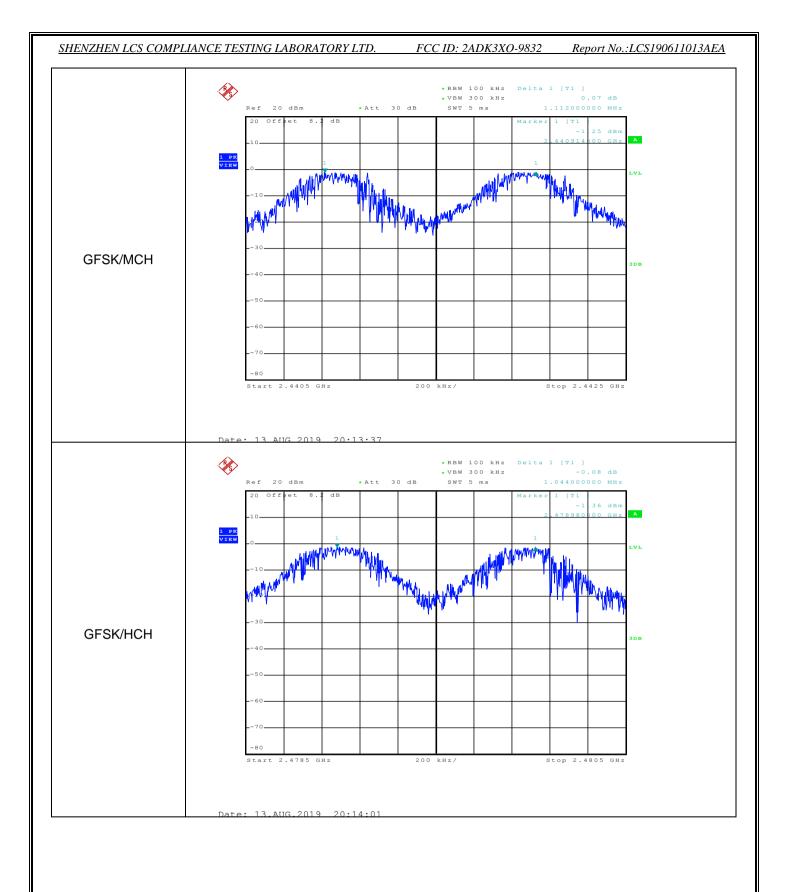


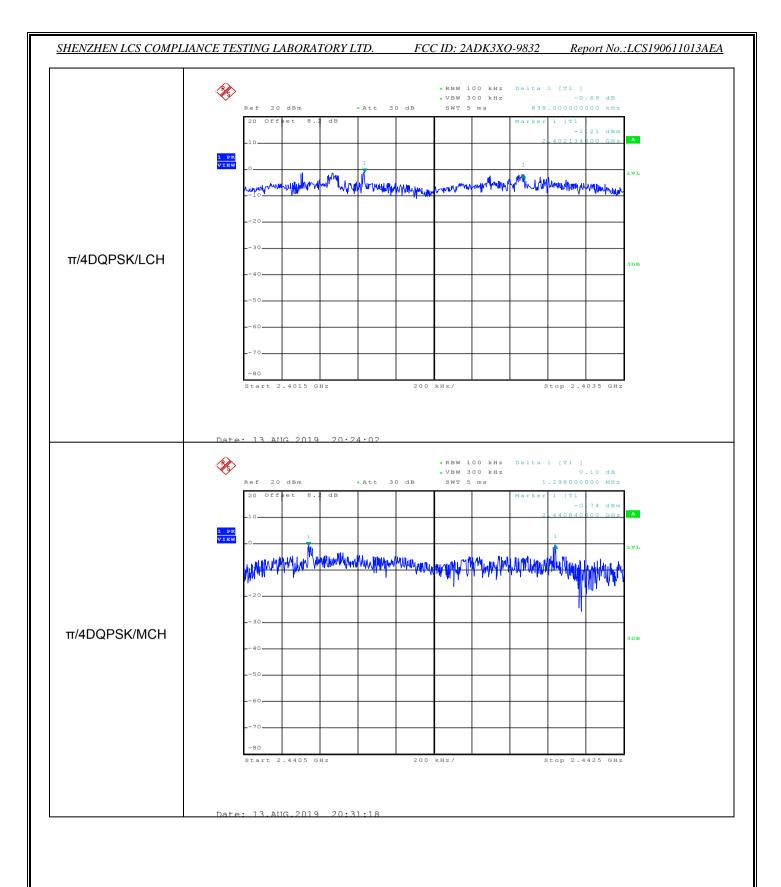


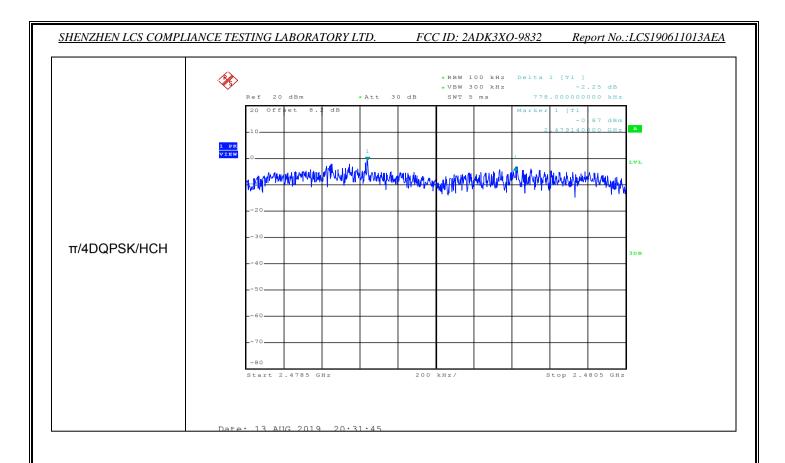
A.3 Carrier Frequency Separation

Mode	Channel.	Carrier Frequency Separation [MHz]	Limit [MHz]	Verdict
	LCH	0.822	0.025	PASS
GFSK	MCH	1.112	0.025	PASS
	HCH	1.044	0.025	PASS
π/4DQPSK	LCH	0.838	0.025	PASS
	MCH	1.298	0.025	PASS
	HCH	0.778	0.025	PASS



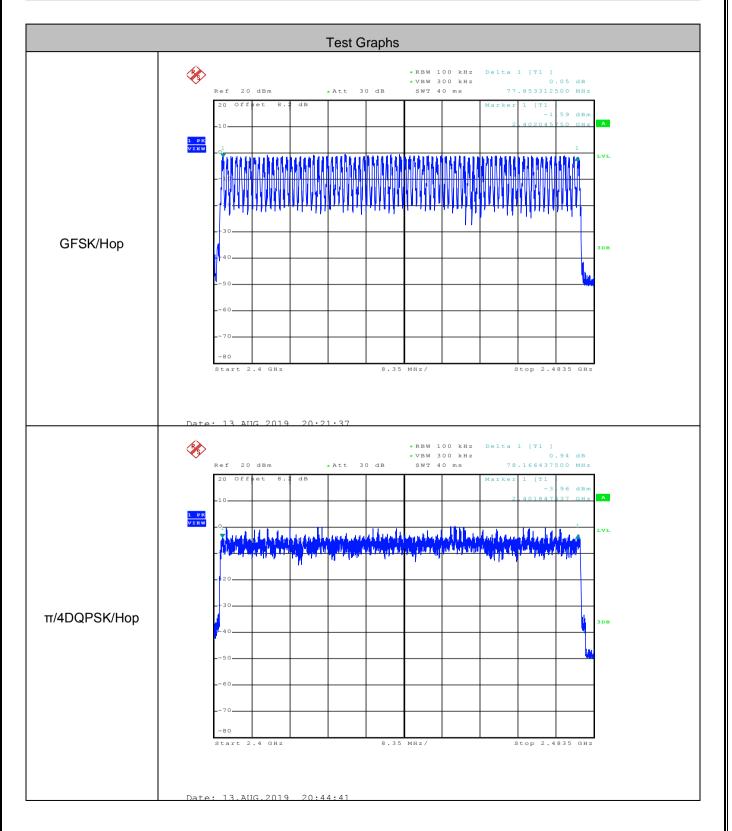






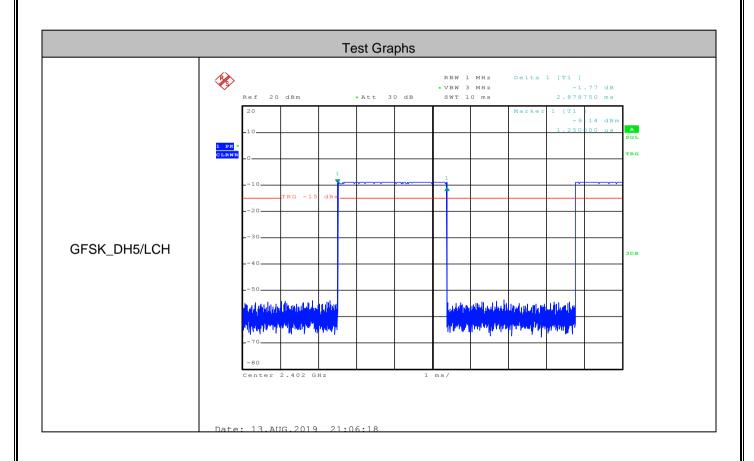
A.4 Hopping Channel Number

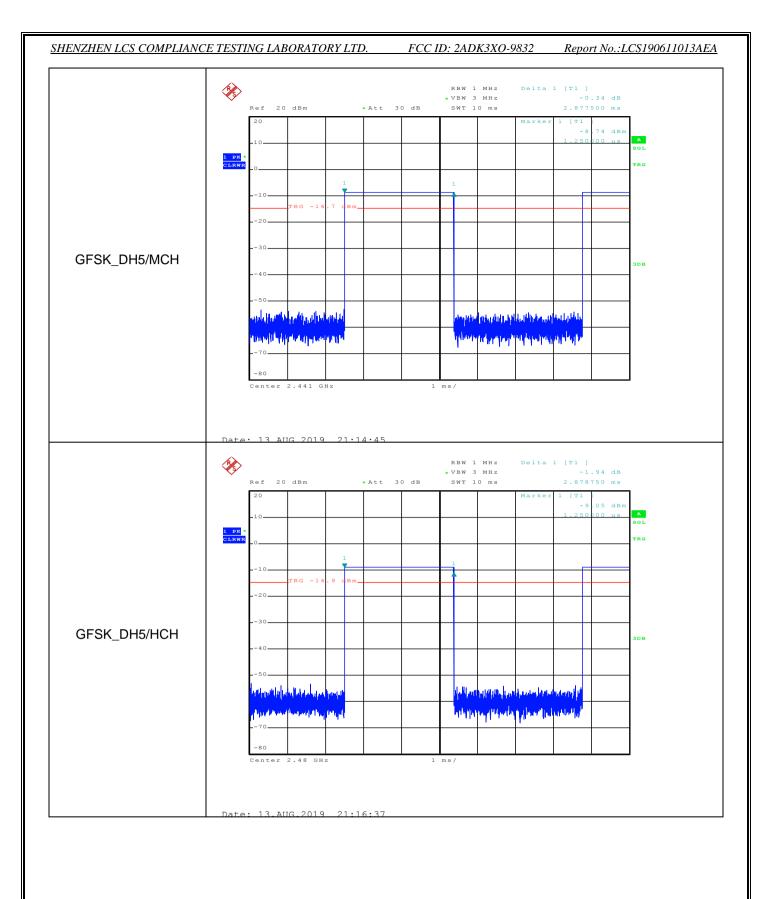
Mode	Channel.	Number of Hopping Channel [N]	Limit [N]	Verdict
GFSK	Нор	79	>=15	PASS
π/4DQPSK	Нор	79	>=15	PASS

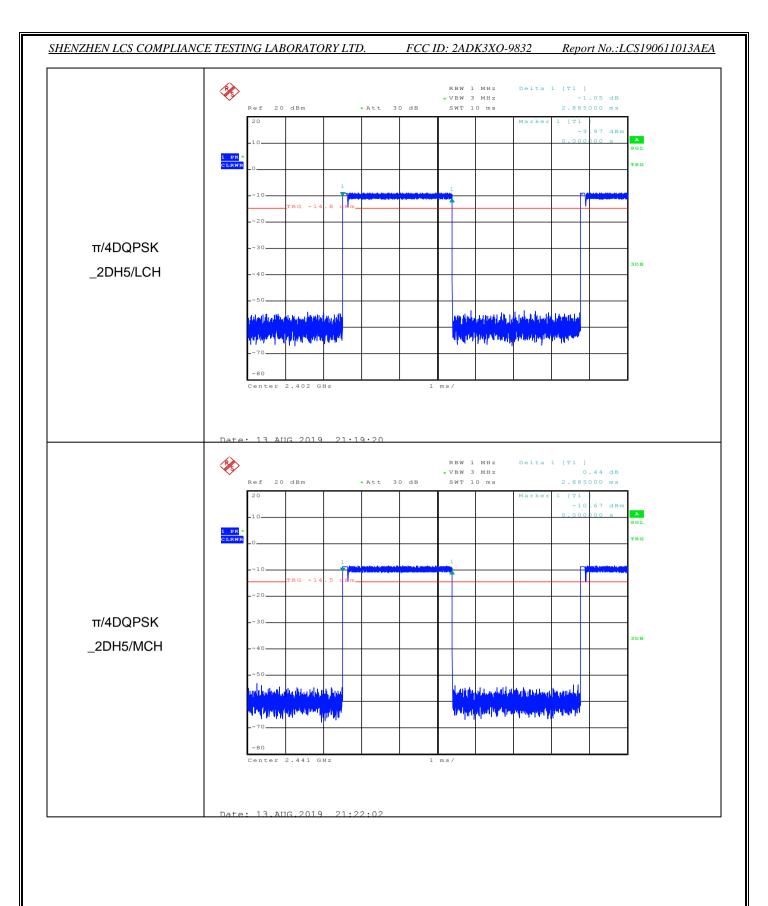


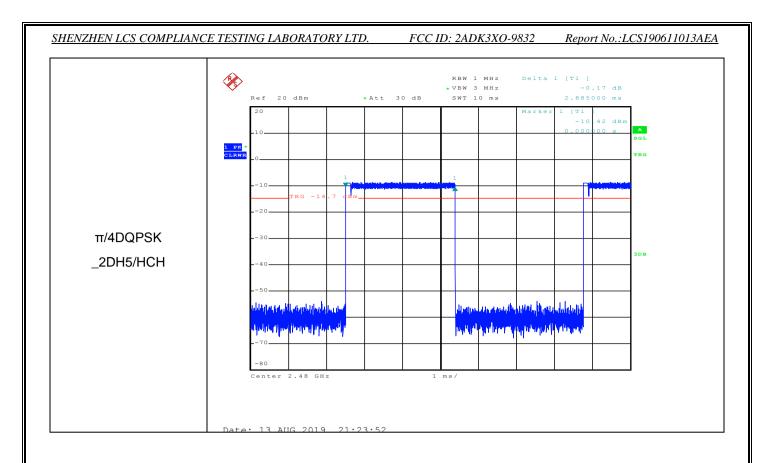
A.5 Dwell Time

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	МСН	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	0.308	0.4	PASS
π/4DQPSK	2DH5	MCH	2.88	106.7	0.308	0.4	PASS
	2DH5	HCH	2.88	106.7	0.308	0.4	PASS



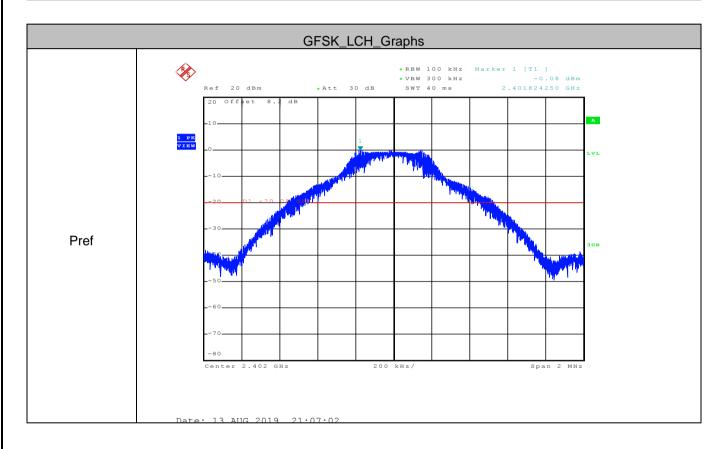


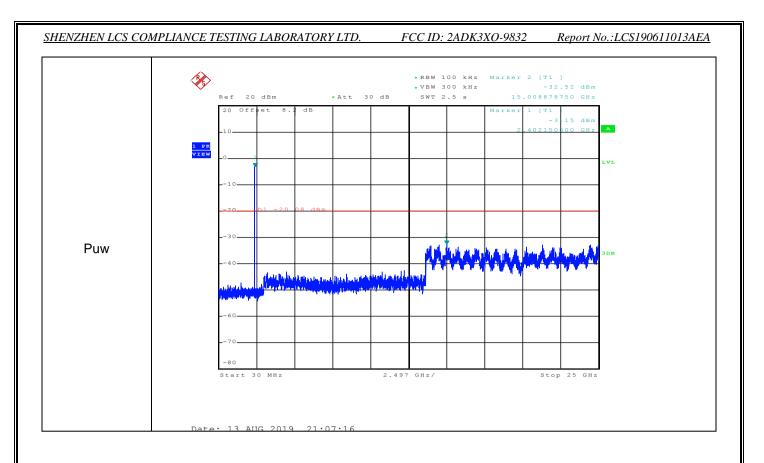


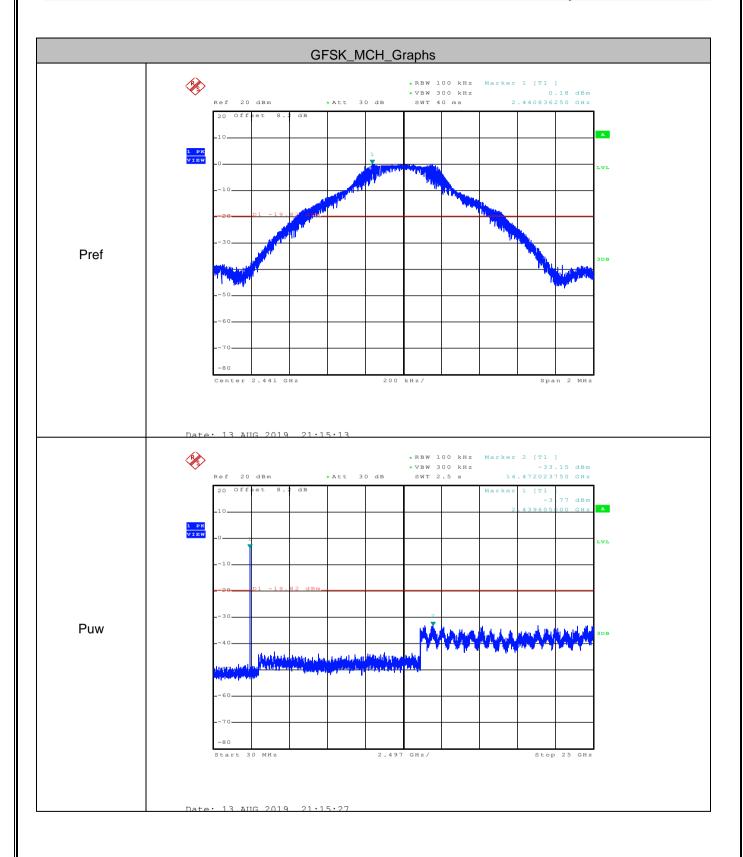


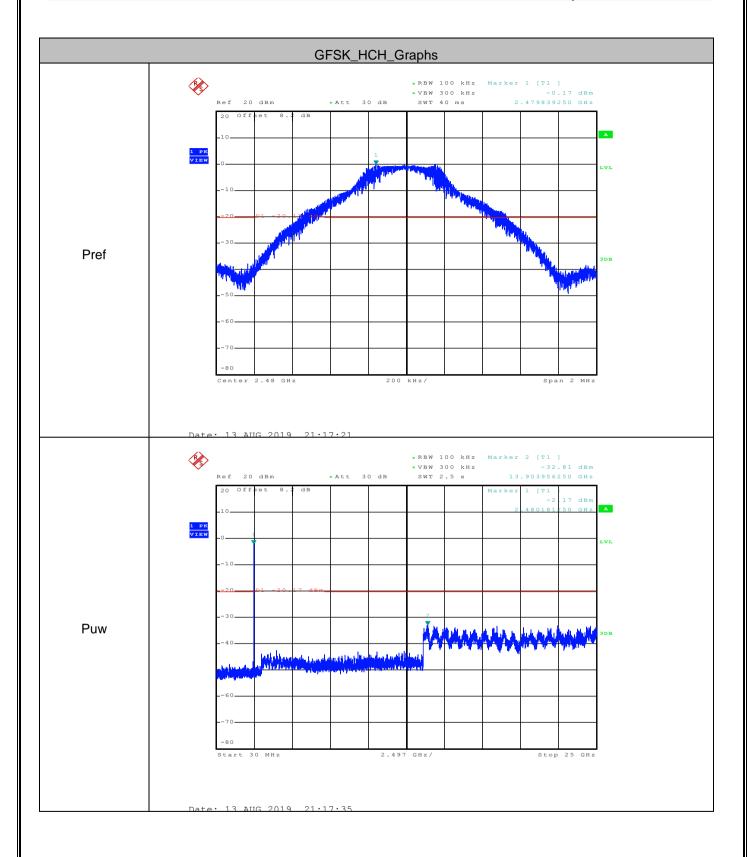
A.6 RF Conducted Spurious Emissions

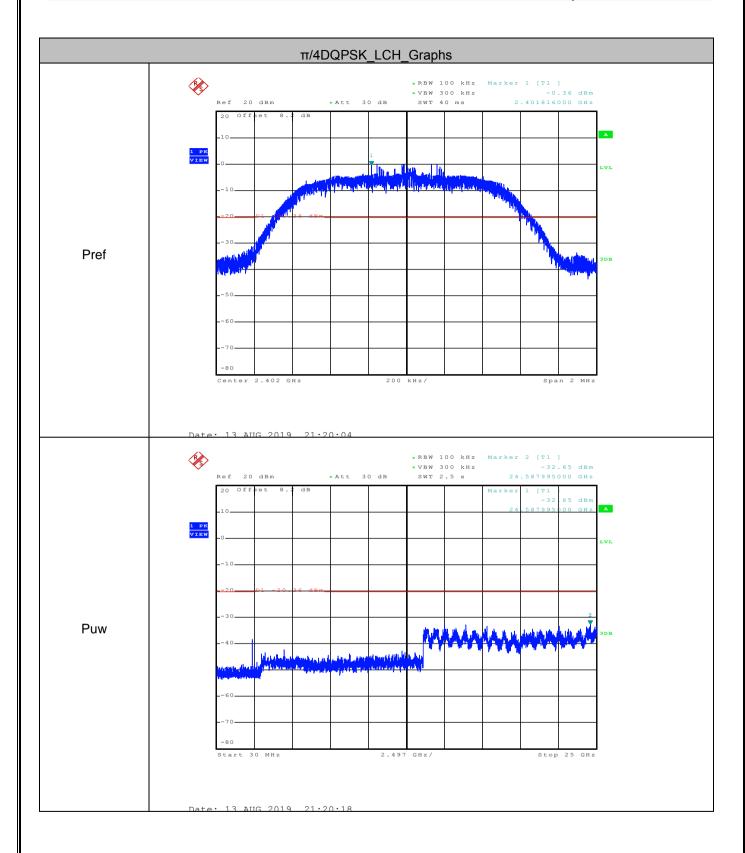
Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
	LCH	-0.08	-32.520	-20.080	PASS
GFSK	MCH	0.18	-33.150	-19.820	PASS
	HCH	-0.17	-32.810	-20.170	PASS
	LCH	-0.36	-32.650	-20.360	PASS
π/4DQPSK	QPSK MCH 0.18		-31.080	-19.820	PASS
	HCH	-0.1	-32.660	-20.100	PASS

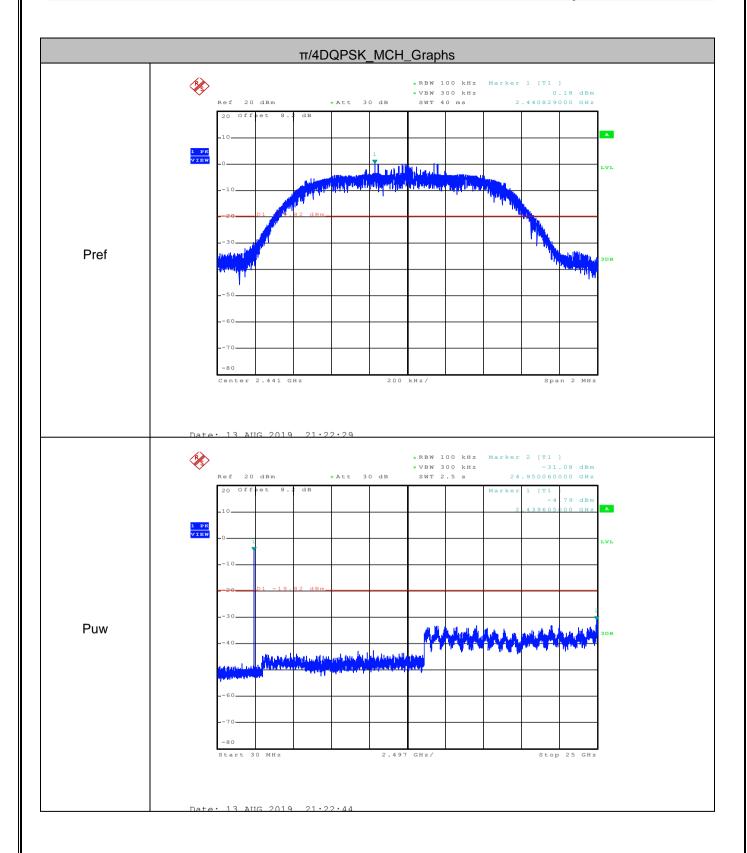


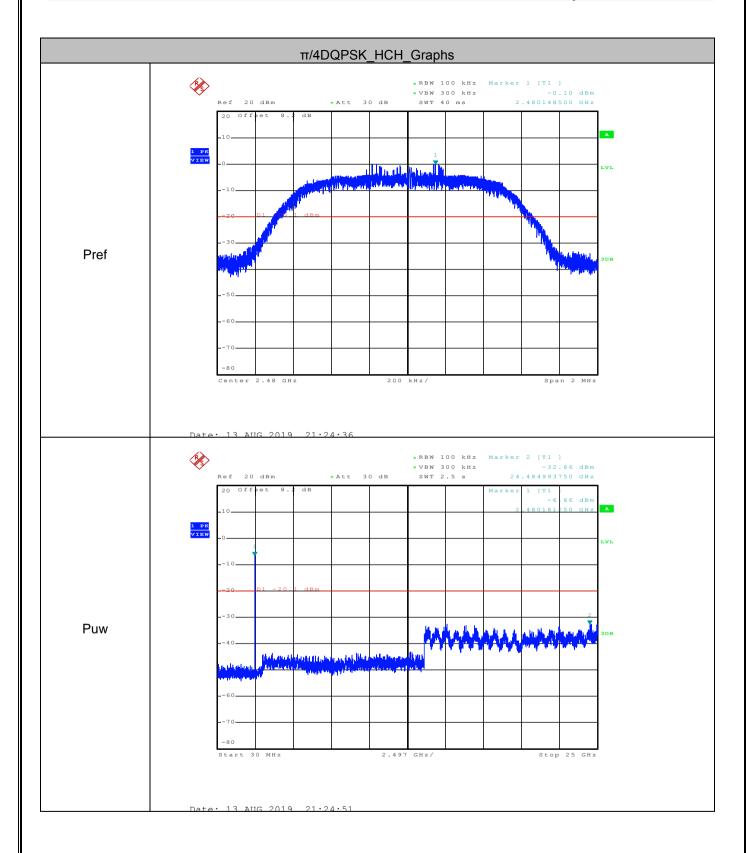






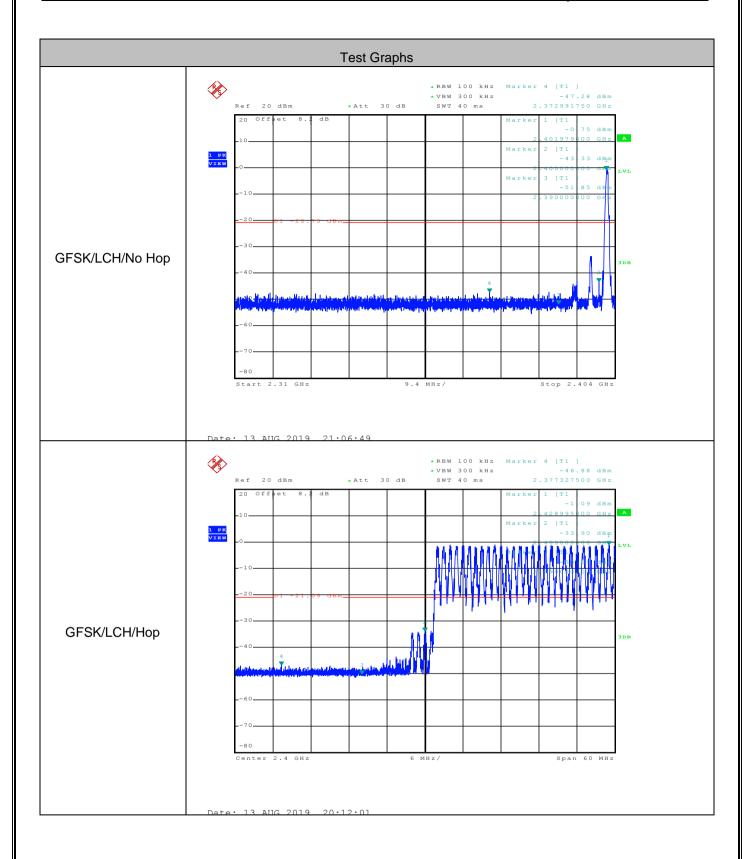


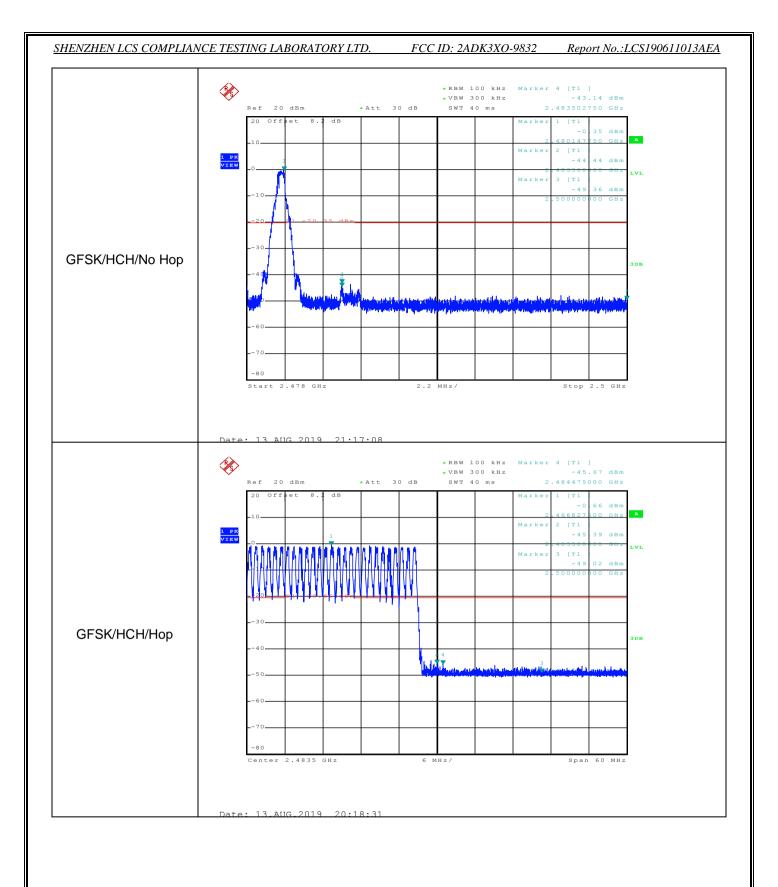


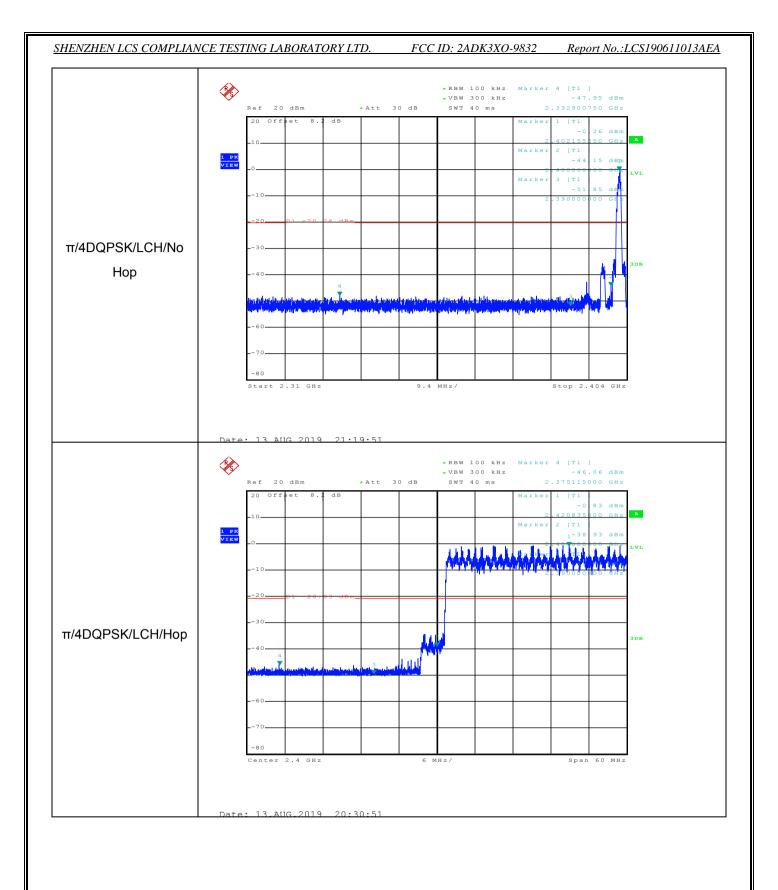


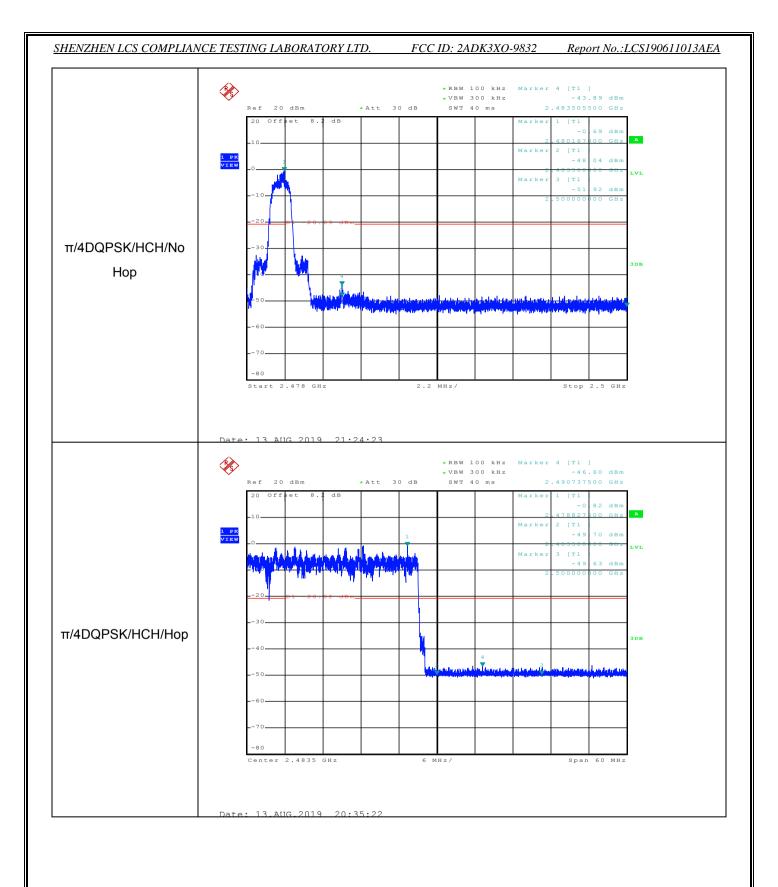
A.7 Band-edge for RF Conducted Emissions

Mode	Channel	Carrier Frequency [MHz]	Carrier Power [dBm]	Frequency Hopping	Max Spurious Level [dBm]	Limit [dBm]	Verdict		
	LCH	0.400	-0.750	Off	-47.278	-20.75	PASS		
0.5014		2402	-1.090	On	-46.878	-21.09	PASS		
GFSK				-0.350	Off	-43.137	-20.35	PASS	
HC	HCH	2480	-0.660	On	-45.669	-20.66	PASS		
π/4DQPSK	LCH		1011		-0.260	Off	-47.952	-20.26	PASS
		2402	-0.830	On	-46.065	-20.83	PASS		
			-0.690	Off	-43.887	-20.69	PASS		
	HCH	2480	-0.820	On	-46.601	-20.82	PASS		



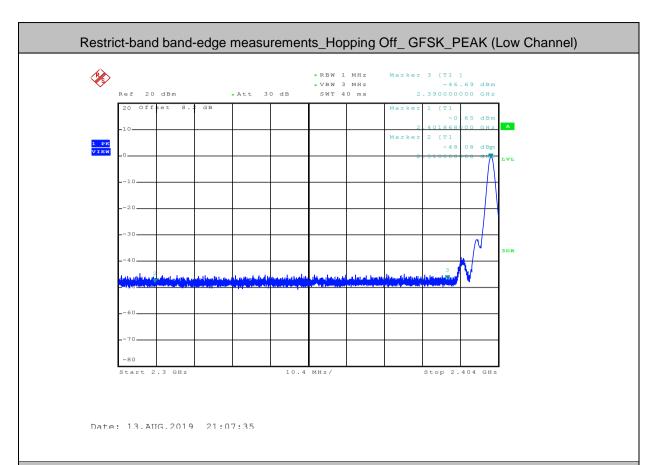


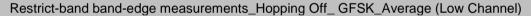


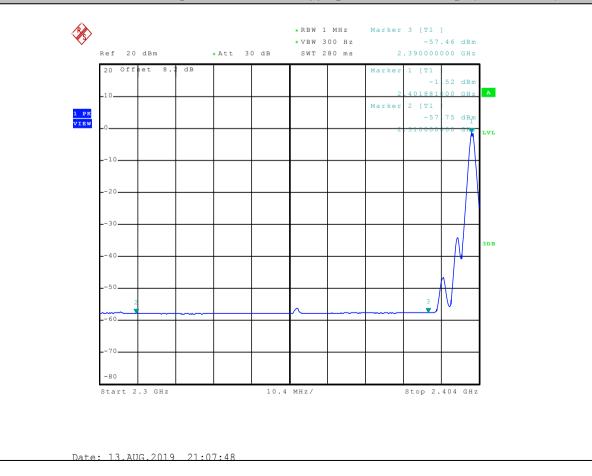


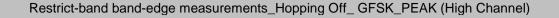
A.8 Restrict-band band-edge measurements

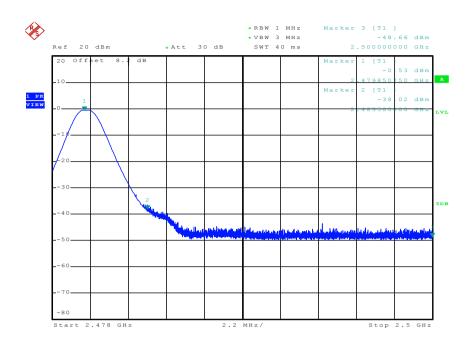
Test Mode	Hopping	Freq.	Power [dBm]	Gain	Ground Factor	E [dBuV/m]	Detector	Limit [dBuV/m]	Verdict
	Off	2310.0	-48.08	2.0	0	47.18	PEAK	74	PASS
	Off	2310.0	-57.75	2.0	0	37.51	AV	54	PASS
	Off	2390.0	-46.69	2.0	0	48.57	PEAK	74	PASS
	Off	2390.0	-57.46	2.0	0	37.80	AV	54	PASS
GFSK	Off	2483.5	-38.02	2.0	0	57.24	PEAK	74	PASS
	Off	2483.5	-43.30	2.0	0	51.96	AV	54	PASS
	Off	2500.0	-48.66	2.0	0	46.60	PEAK	74	PASS
	Off	2500.0	-57.73	2.0	0	37.53	AV	54	PASS
	Off	2310.0	-48.23	2.0	0	47.03	PEAK	74	PASS
	Off	2310.0	-57.85	2.0	0	37.41	AV	54	PASS
	Off	2390.0	-47.25	2.0	0	48.01	PEAK	74	PASS
	Off	2390.0	-57.49	2.0	0	37.77	AV	54	PASS
π/4DQPSK	Off	2483.5	-37.10	2.0	0	58.16	PEAK	74	PASS
	Off	2483.5	-43.96	2.0	0	51.30	AV	54	PASS
	Off	2500.0	-48.48	2.0	0	46.78	PEAK	74	PASS
	Off	2500.0	-57.88	2.0	0	37.38	AV	54	PASS











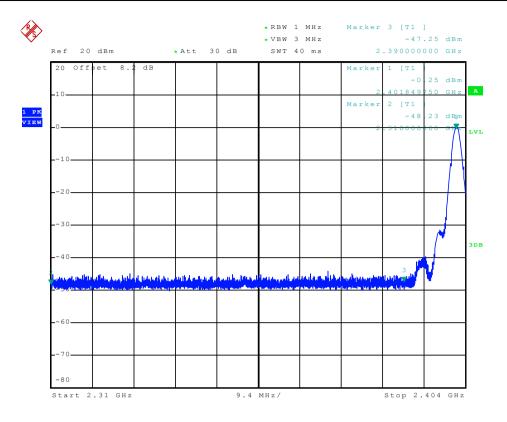
Date: 13.AUG.2019 21:17:54

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



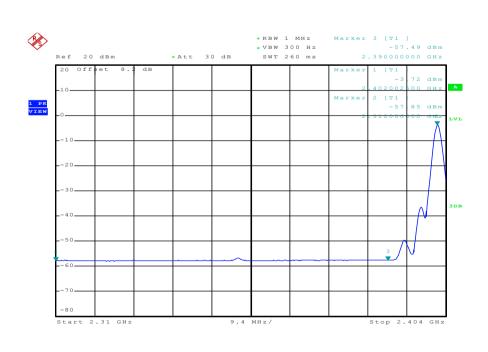
Date: 13.AUG.2019 21:18:07

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



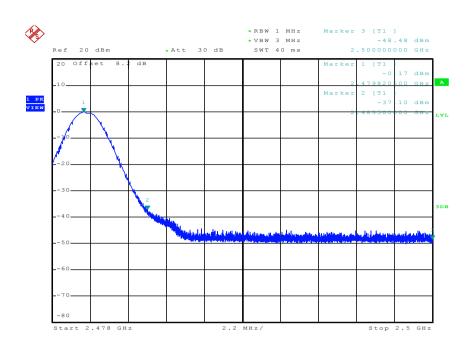
Date: 13.AUG.2019 21:20:37

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



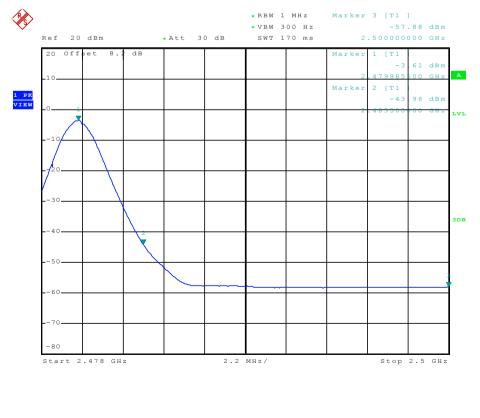
Date: 13.AUG.2019 21:20:50

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



Date: 13.AUG.2019 21:25:09

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



Date: 13.AUG.2019 21:25:22