Appendix A

RF Test Data for BT V4.1(BDR/EDR) (Conducted Measurement)

Product Name: Bluetooth karaoke speaker

Trade Mark: N/A

Test Model: SP-052

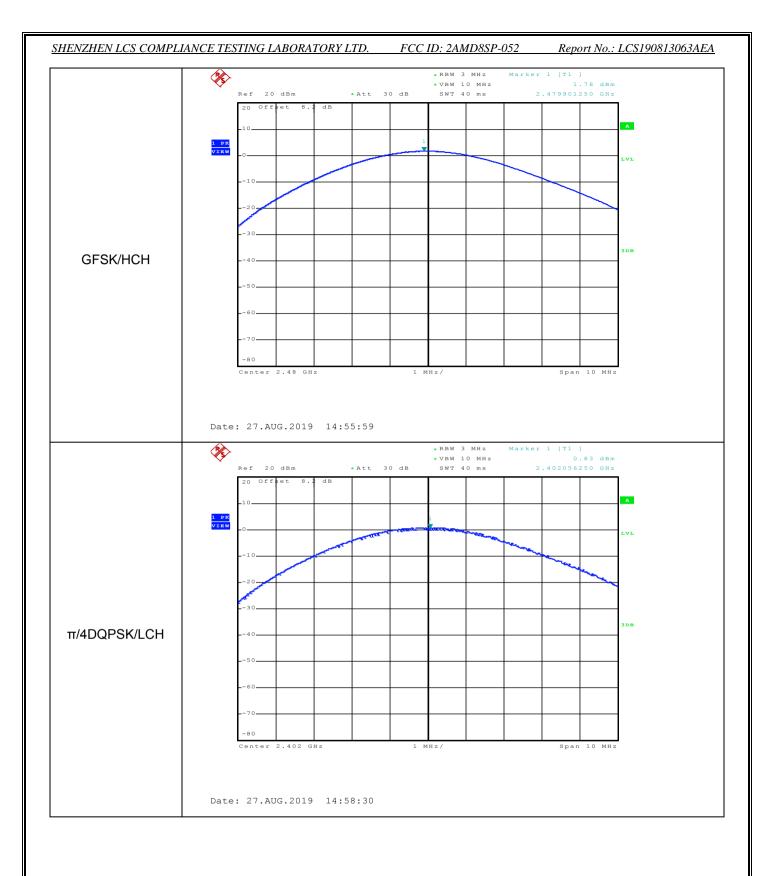
Additional Model No.: MI-S041S-101, MI-S041S-199

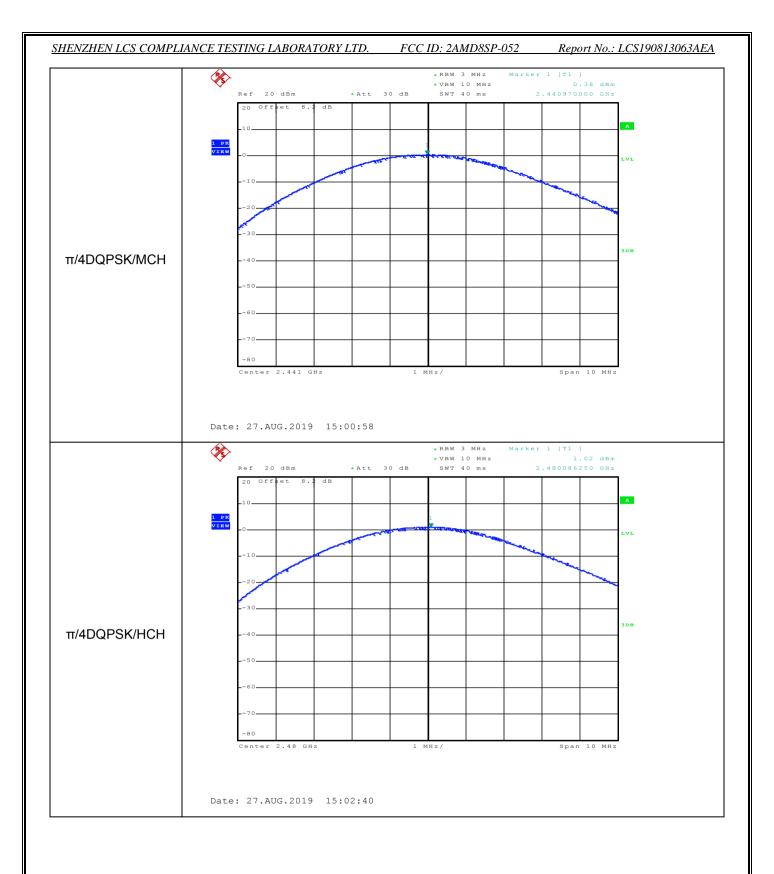
Environmental Conditions

Temperature:	24.8°C
Relative Humidity:	54.2%
ATM Pressure:	100.0 kPa
Test Engineer:	Li Huan
Supervised by:	Wang.Chuang

A.1 Maxmum Conducted Peak Output Power

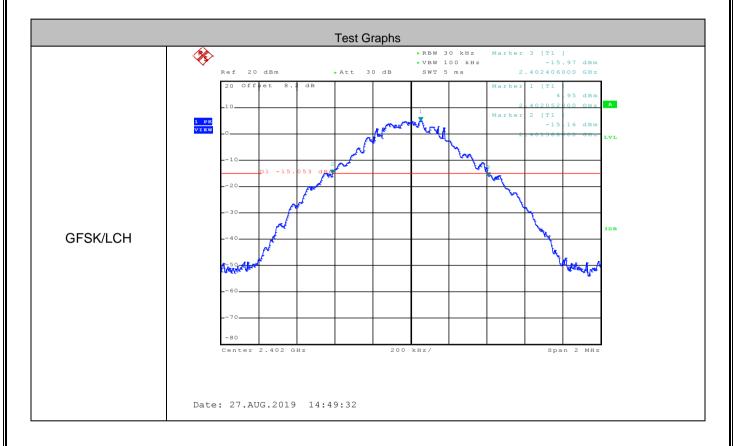
Mode	Channel.	Maximum Peak Output Power [dBm]	Limit [dBm]	Verdict
	LCH	7.400	30	PASS
GFSK	MCH	1.140	30	PASS
	НСН	1.780	30	PASS
	LCH	0.830	21	PASS
π/4DQPSK	PSK MCH 0.380		21	PASS
	HCH	1.020	21	PASS

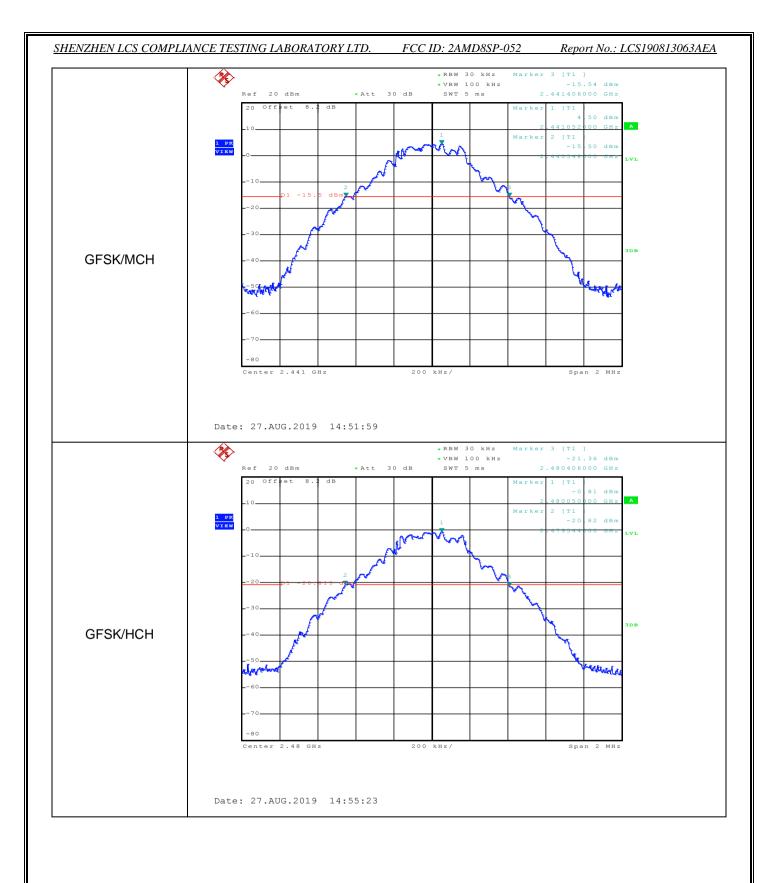


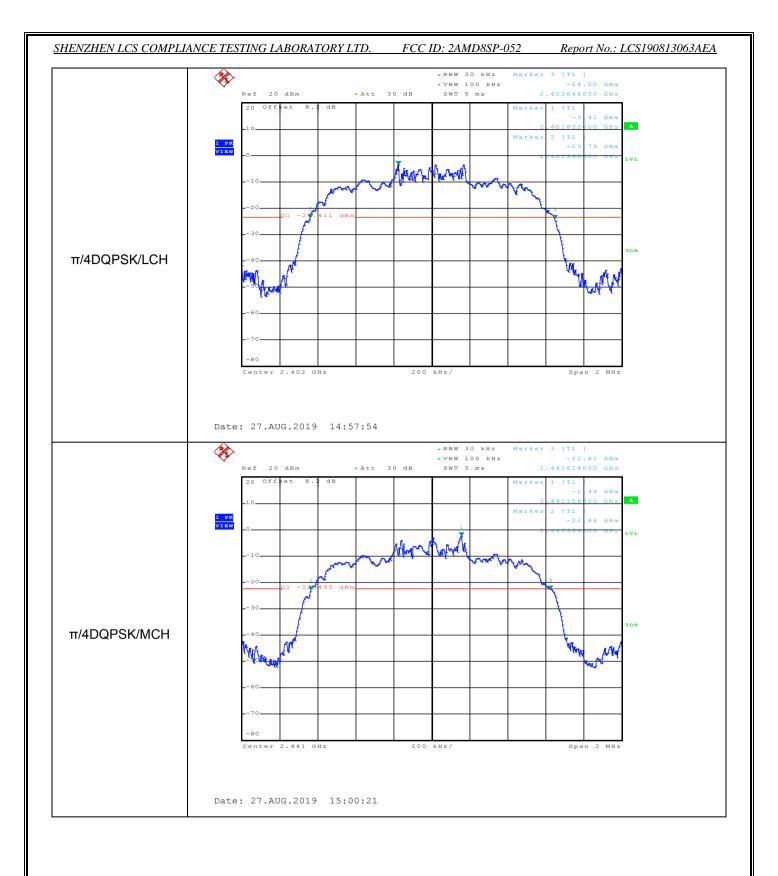


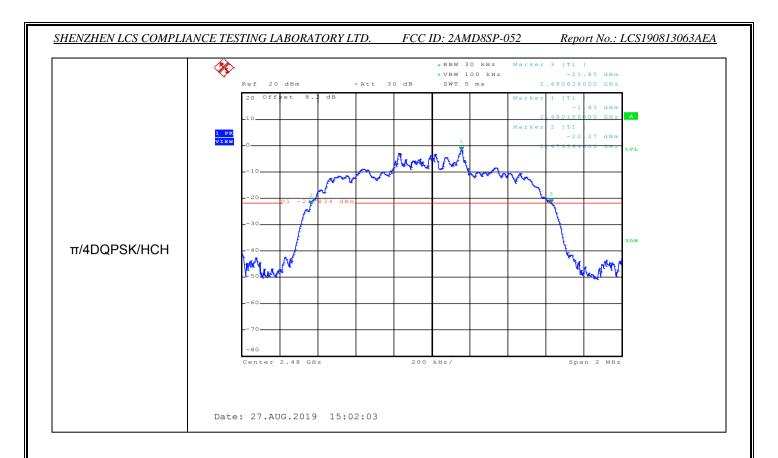
A.2 20dB Bandwidth

Mode	Channel.	20dB Bandwidth [MHz]	Limit [MHz]	Verdict
	LCH	0.818	Not Specified	PASS
GFSK	MCH	0.858	Not Specified	PASS
	HCH	0.862	Not Specified	PASS
	LCH	1.286	Not Specified	PASS
π/4DQPSK	MCH	1.260	Not Specified	PASS
	HCH	1.262	Not Specified	PASS



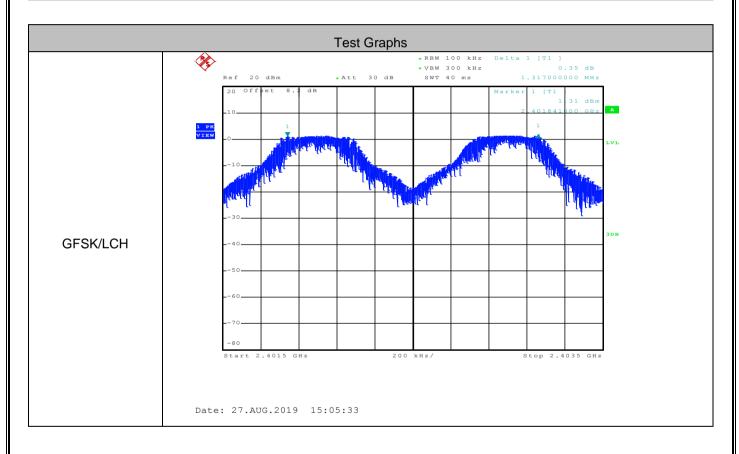


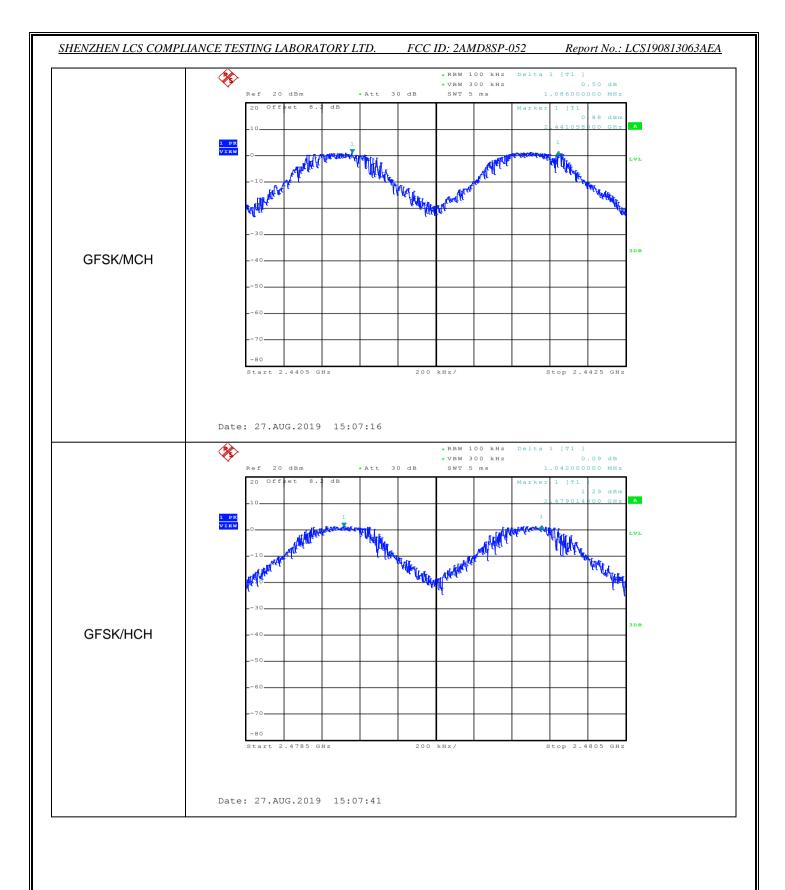


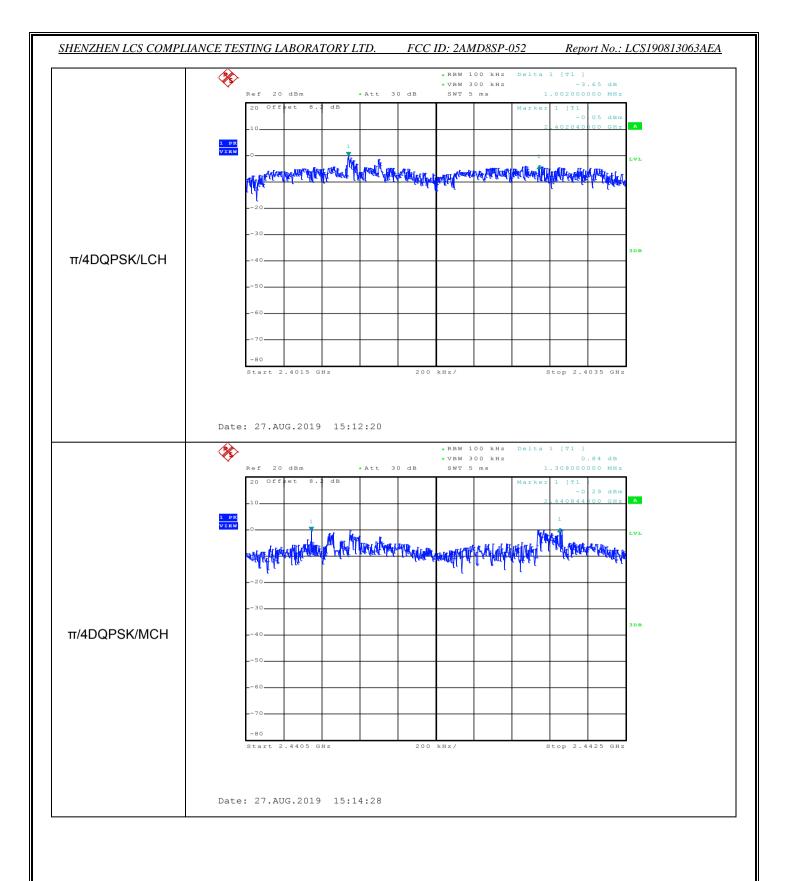


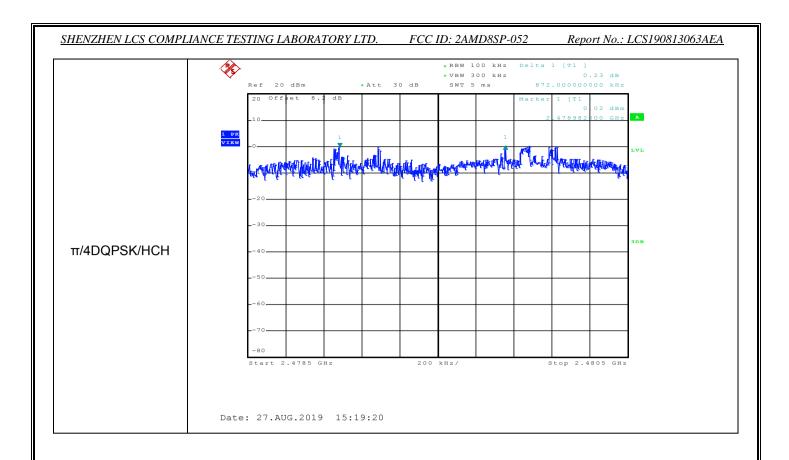
A.3 Carrier Frequency Separation

Mode	Channel.	Carrier Frequency Separation [MHz]	Limit [MHz]	Verdict
	LCH	1.317	0.575	PASS
GFSK	MCH	1.086	0.575	PASS
	HCH	1.042	0.575	PASS
	LCH	1.002	0.857	PASS
π/4DQPSK	MCH	1.308	0.857	PASS
	НСН	0.872	0.857	PASS



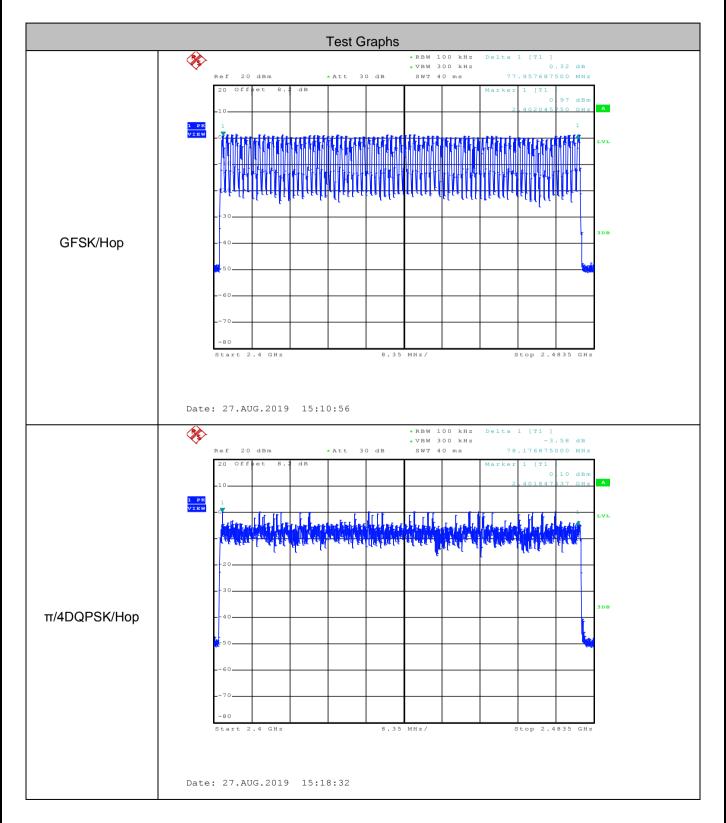






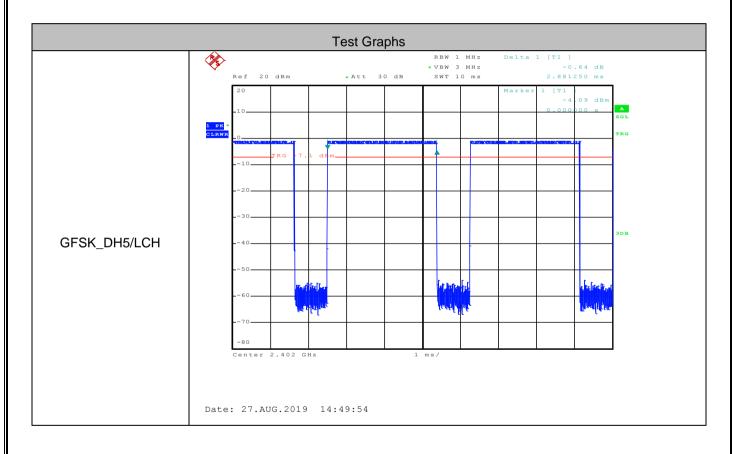
A.4 Hopping Channel Number

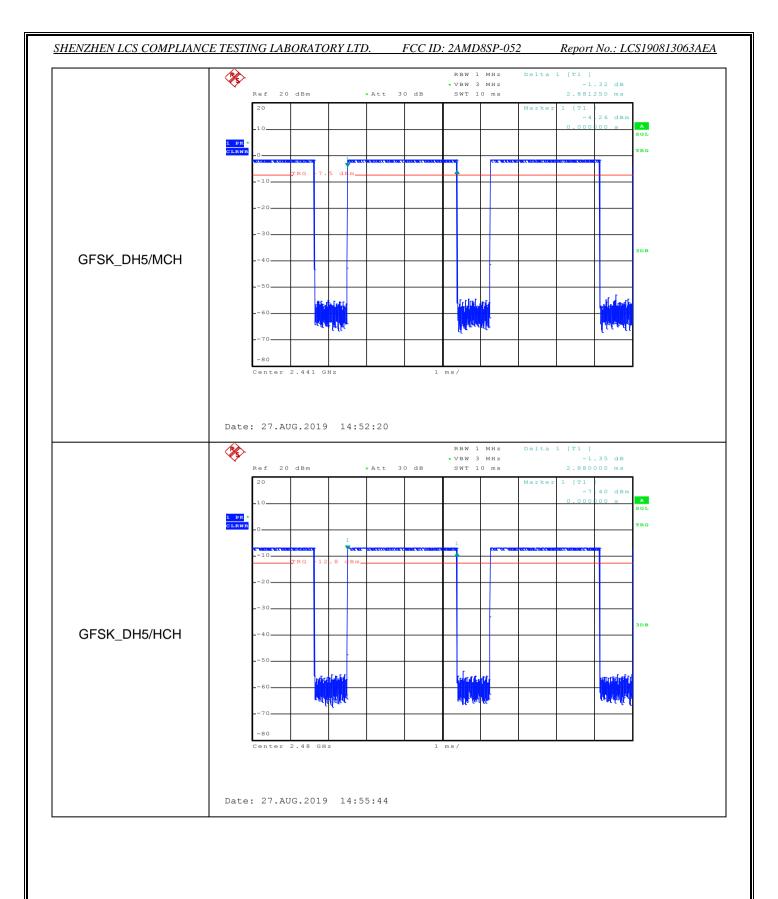
Mode	Channel.	Number of Hopping Channel [N]	Limit [N]	Verdict
GFSK	Нор	79	>=15	PASS
π/4DQPSK	Нор	79	>=15	PASS

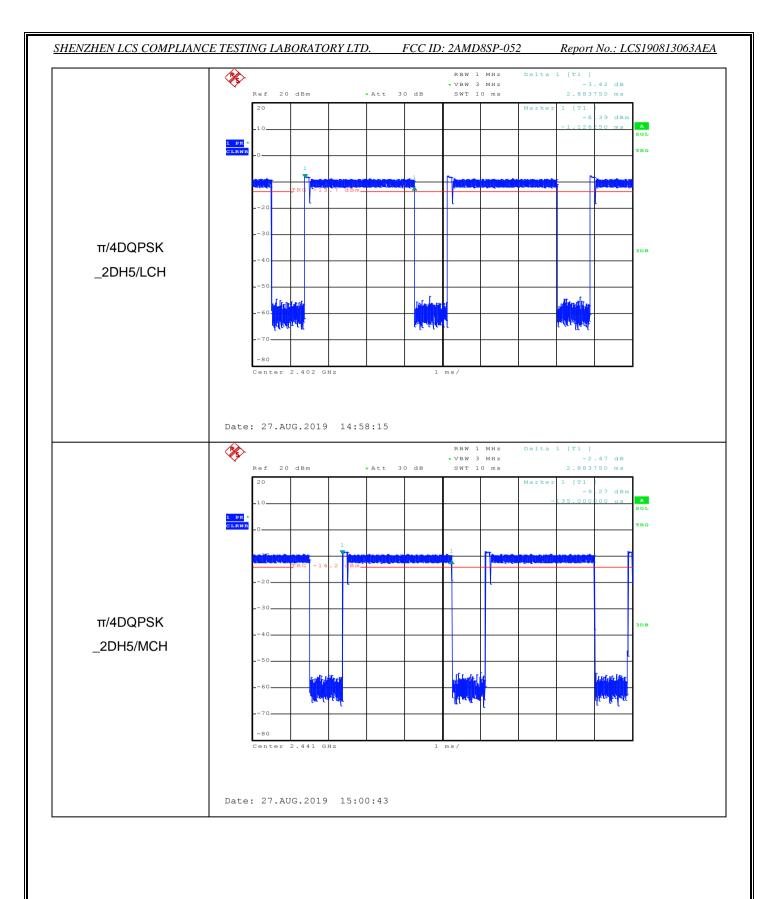


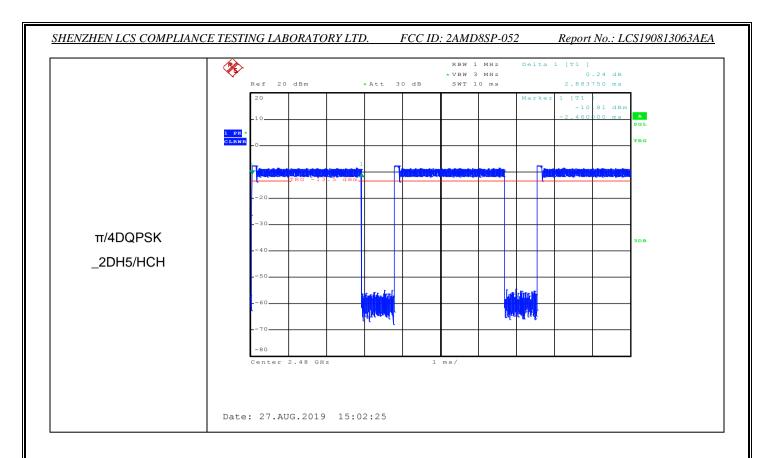
A.5 Dwell Time

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	MCH	2.88	106.7	0.307	0.4	PASS
	DH5	НСН	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



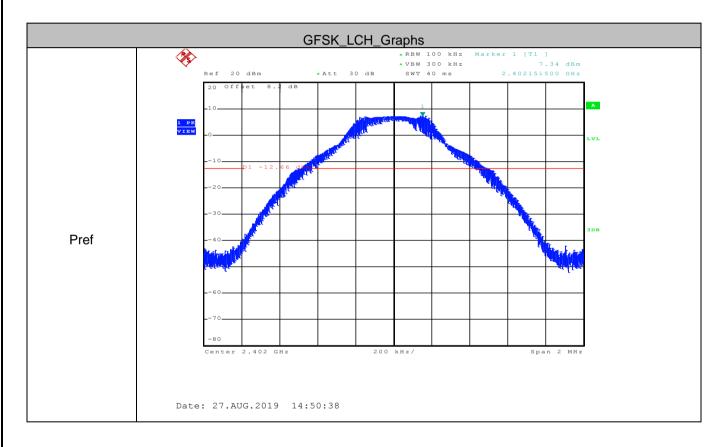


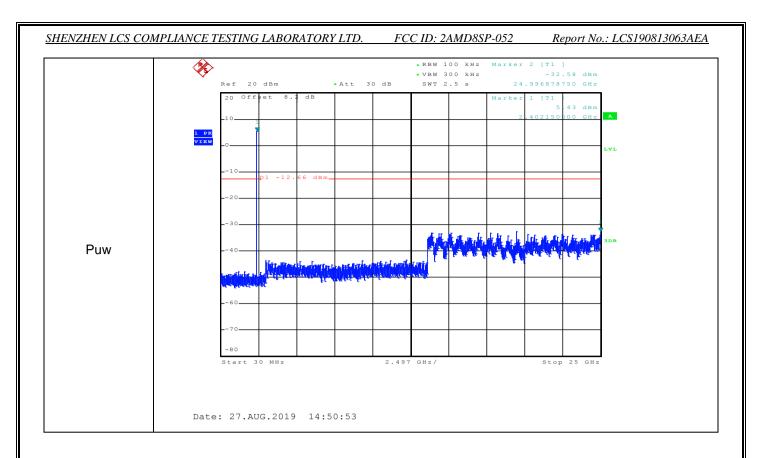


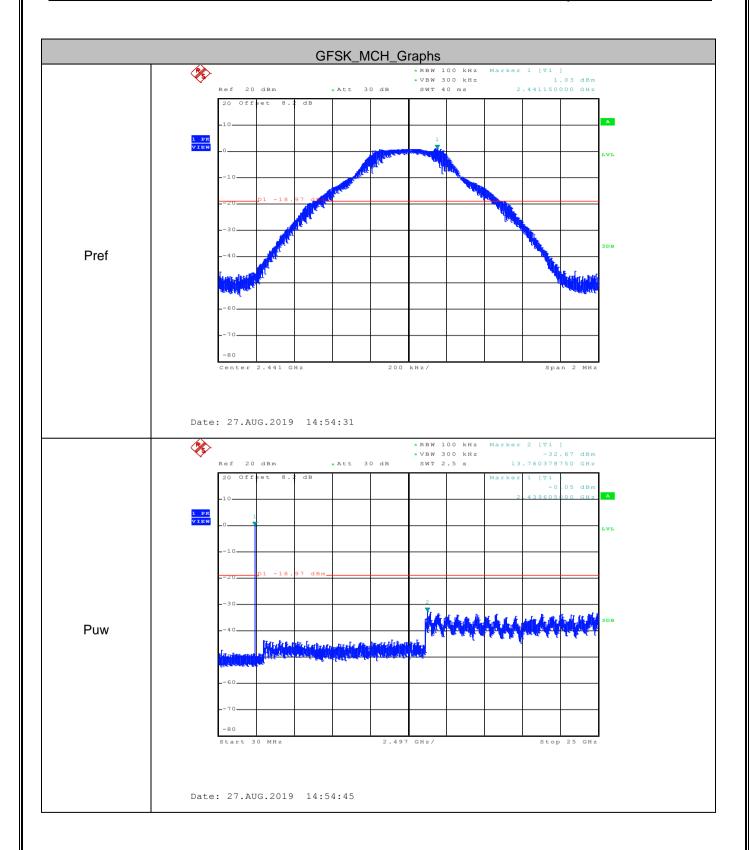


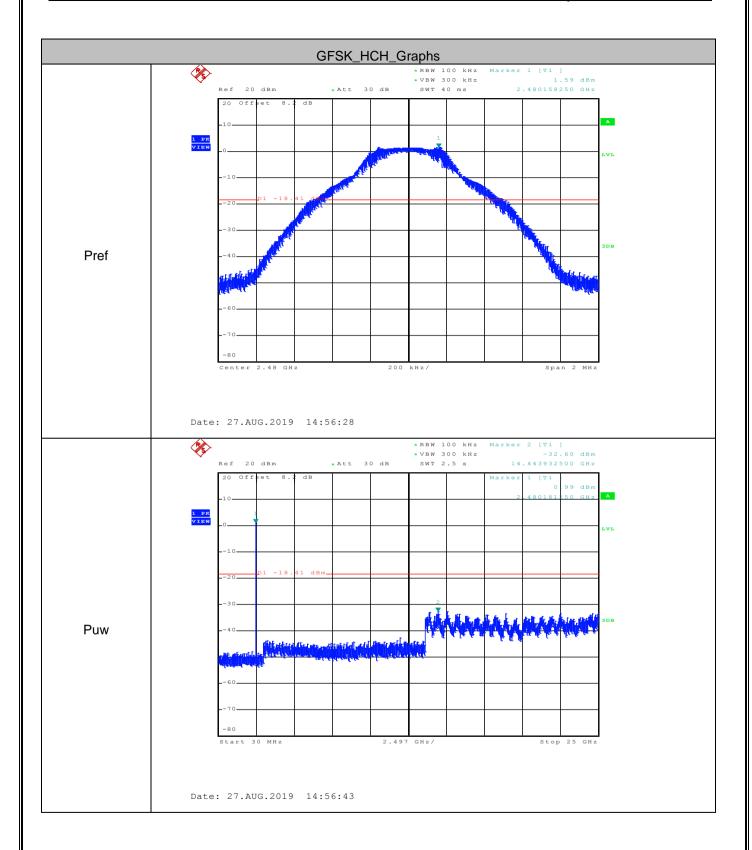
A.6 RF Conducted Spurious Emissions

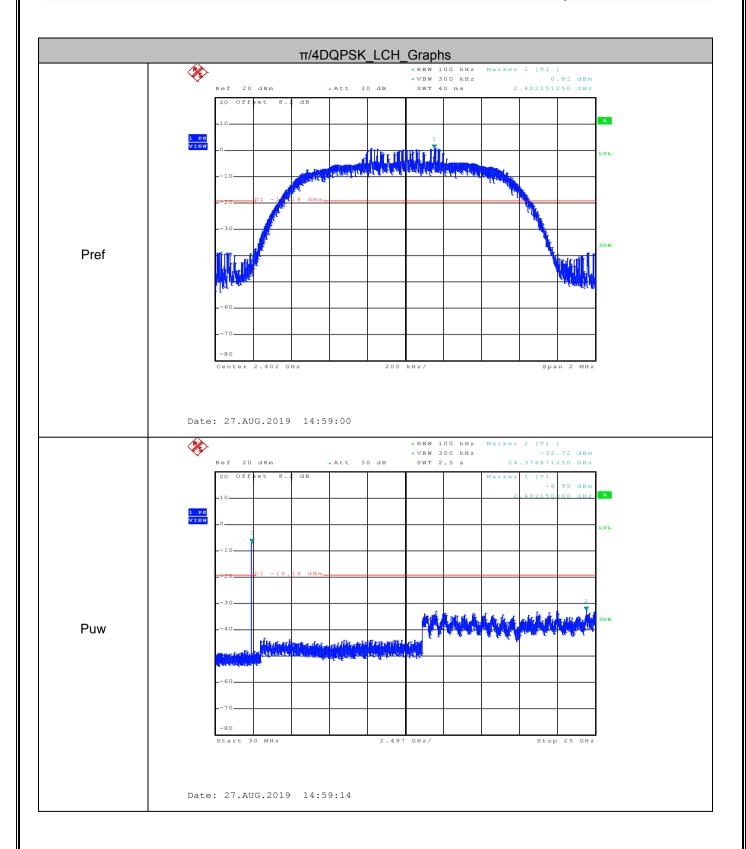
Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
	LCH	7.34	-32.580	-12.660	PASS
GFSK	MCH	1.03	-32.670	-18.970	PASS
	HCH	1.59	-32.600	-18.410	PASS
π/4DQPSK	LCH	0.82	-32.720	-19.180	PASS
	MCH	0.37	-32.390	-19.630	PASS
	HCH	0.96	-32.520	-19.040	PASS

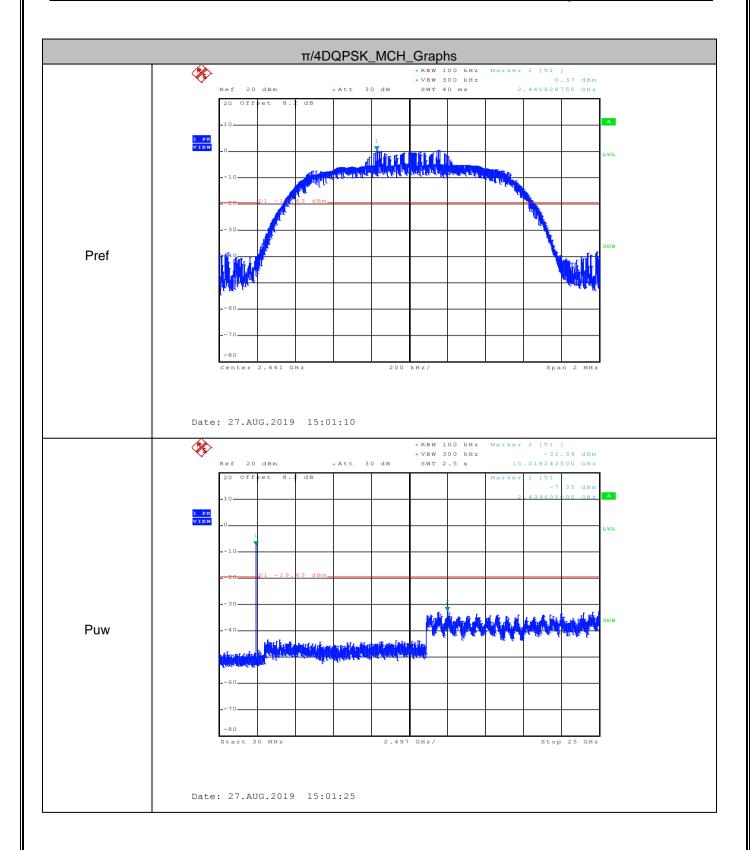


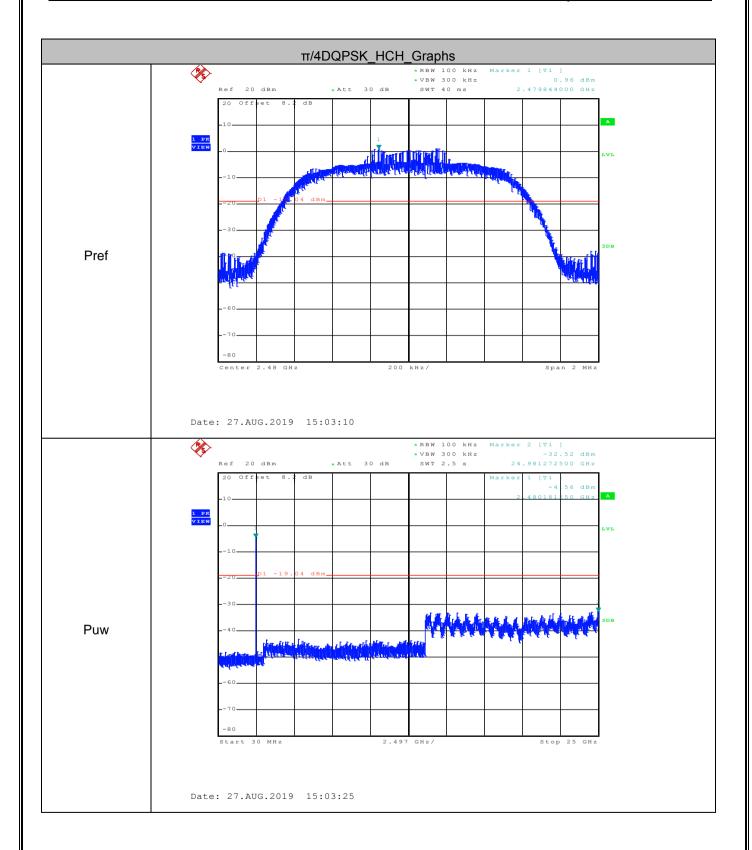






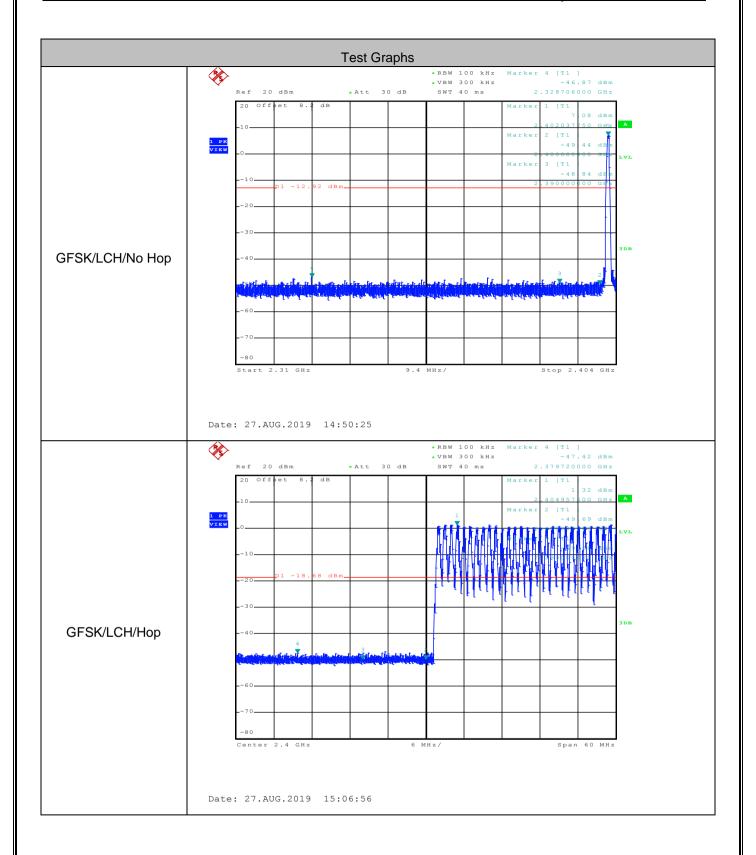


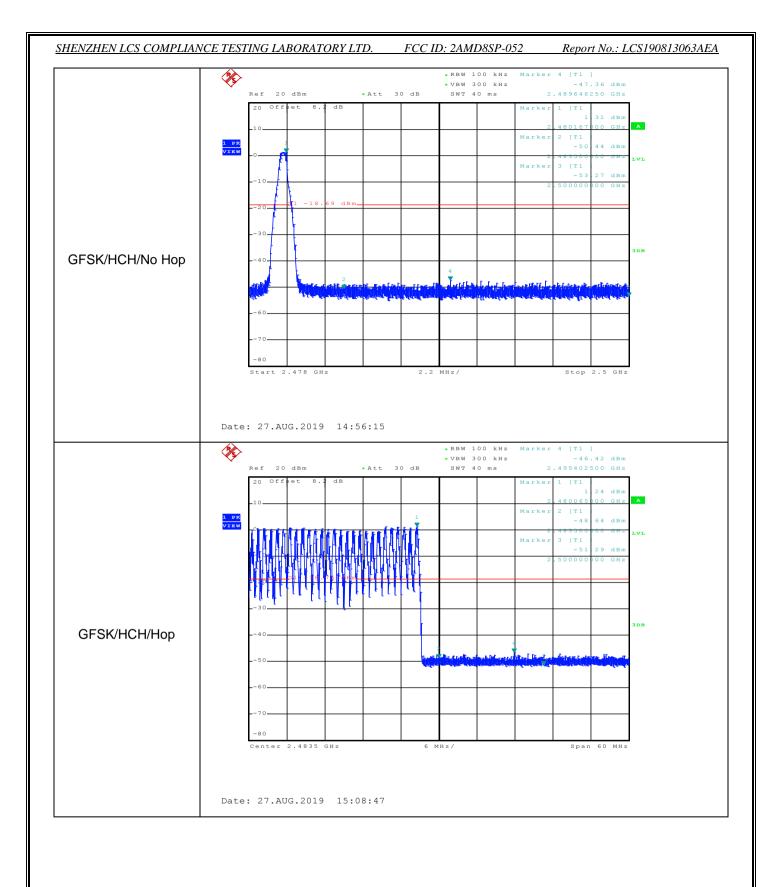


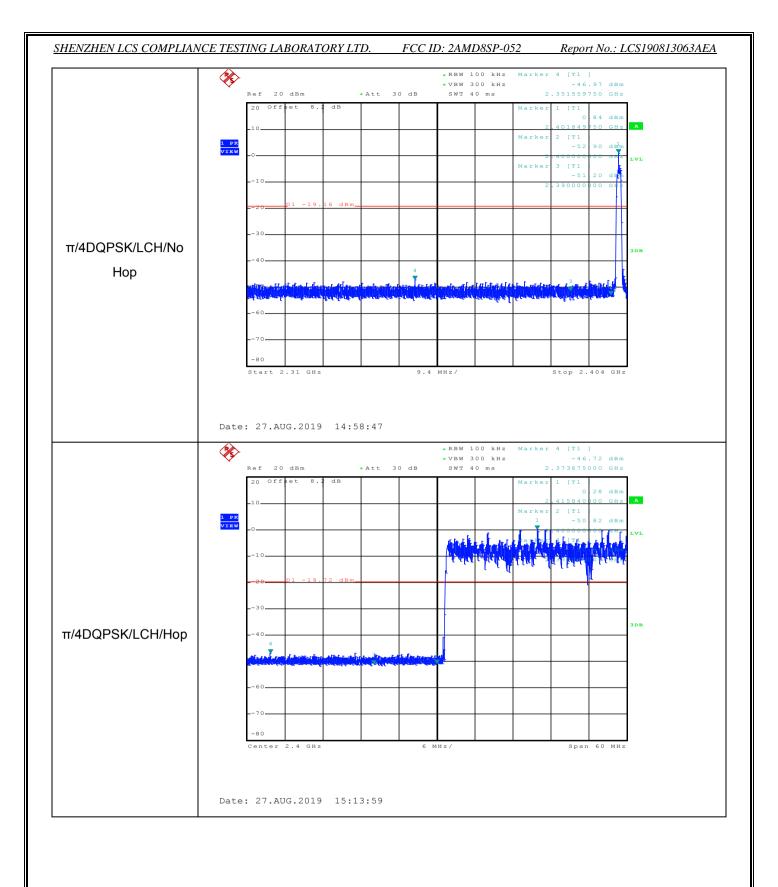


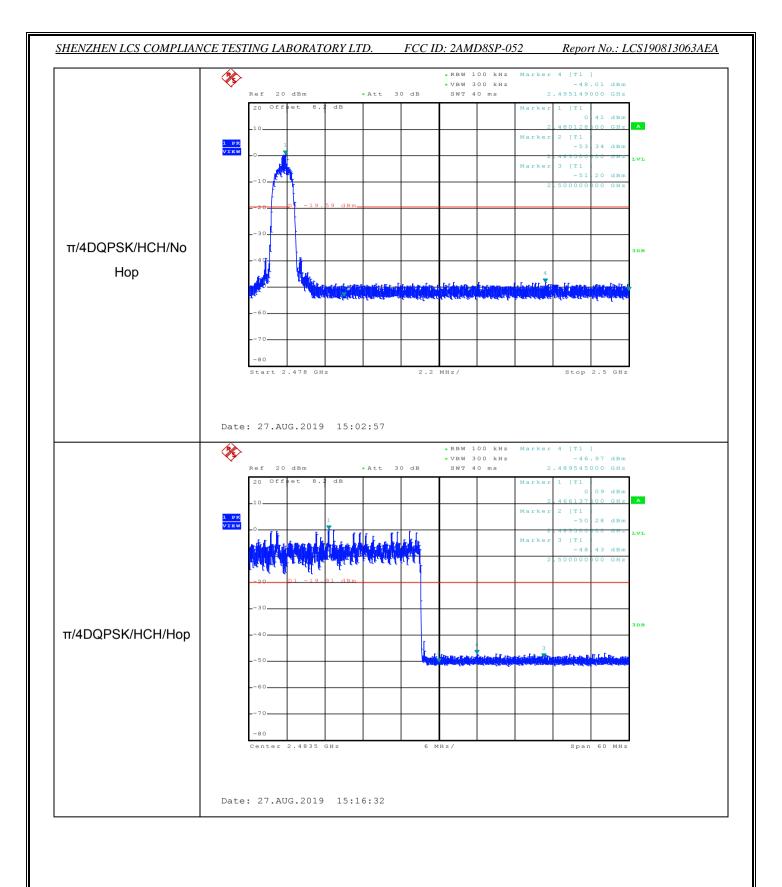
A.7 Band-edge for RF Conducted Emissions

Mode	Channel	Carrier Frequency [MHz]	Carrier Power [dBm]	Frequency Hopping	Max Spurious Level [dBm]	Limit [dBm]	Verdict
			7.080	Off	-46.874	-12.92	PASS
0.5014	LCH	2402	1.320	On	-47.424	-18.68	PASS
GFSK		2480	1.310	Off	-47.364	-18.69	PASS
	HCH		1.240	On	-46.425	-18.76	PASS
		LCH 2402	0.840	Off	-46.972	-19.16	PASS
π/4DQPSK	LCH		0.280	On	-46.720	-19.72	PASS
			0.410	Off	-48.008	-19.59	PASS
	HCH	2480	0.090	On	-46.972	-19.91	PASS



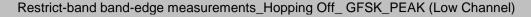


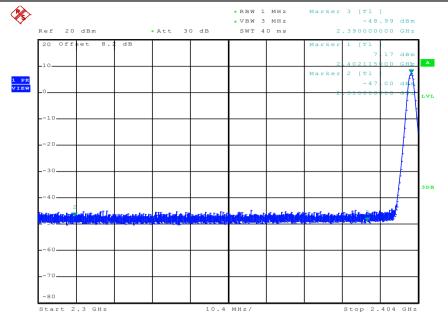




A.8 Restrict-band band-edge measurements

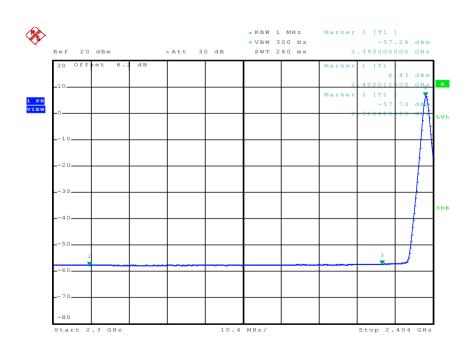
Test Mode	Hopping	Freq.	Power [dBm]	Gain	Ground Factor	E [dBuV/m]	Detector	Limit [dBuV/m]	Verdict
	Off	2310.0	-47.00	2.0	0	48.26	PEAK	74	PASS
	Off	2310.0	-57.73	2.0	0	37.53	AV	54	PASS
	Off	2390.0	-48.99	2.0	0	46.27	PEAK	74	PASS
	Off	2390.0	-57.29	2.0	0	37.97	AV	54	PASS
GFSK	Off	2483.5	-38.23	2.0	0	57.03	PEAK	74	PASS
	Off	2483.5	-41.53	2.0	0	53.73	AV	54	PASS
	Off	2500.0	-48.14	2.0	0	47.12	PEAK	74	PASS
	Off	2500.0	-57.97	2.0	0	37.29	AV	54	PASS
	Off	2310.0	-49.64	2.0	0	45.62	PEAK	74	PASS
	Off	2310.0	-57.61	2.0	0	37.65	AV	54	PASS
	Off	2390.0	-48.50	2.0	0	46.76	PEAK	74	PASS
	Off	2390.0	-57.30	2.0	0	37.96	AV	54	PASS
π/4DQPSK	Off	2483.5	-39.01	2.0	0	56.25	PEAK	74	PASS
	Off	2483.5	-44.55	2.0	0	50.71	AV	54	PASS
	Off	2500.0	-47.71	2.0	0	47.55	PEAK	74	PASS
	Off	2500.0	-58.08	2.0	0	37.18	AV	54	PASS





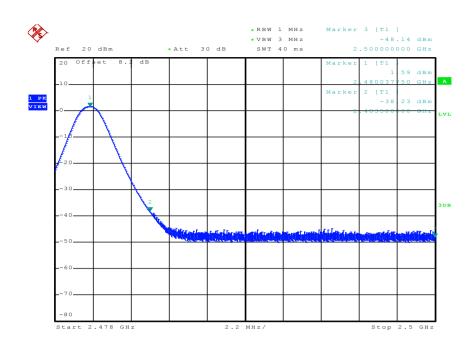
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Restrict-band band-edge measurements_Hopping Off_ GFSK_Average (Low Channel)



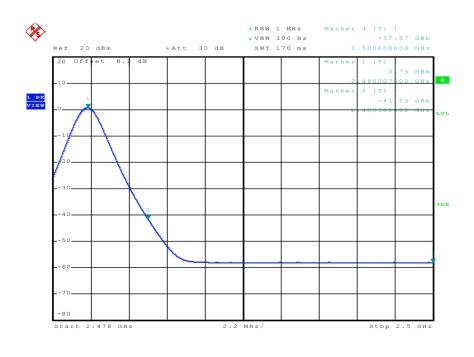
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Restrict-band band-edge measurements_Hopping Off_ GFSK_PEAK (High Channel)



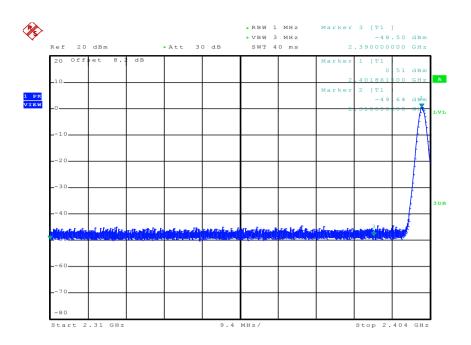
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Restrict-band band-edge measurements_Hopping Off_ GFSK_Average (High Channel)



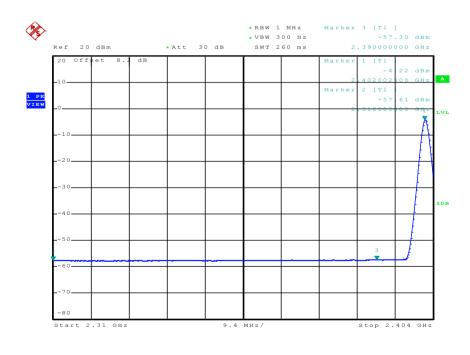
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Restrict-band band-edge measurements_Hopping Off_π/4-DQPSK_PEAK (Low Channel)



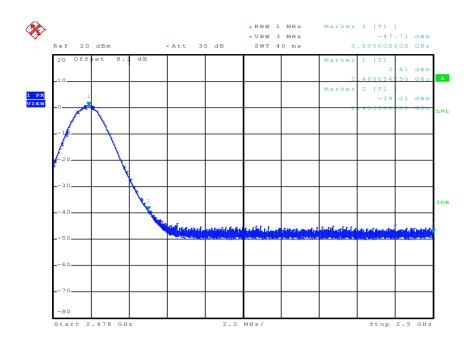
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Restrict-band band-edge measurements_Hopping Off_π/4-DQPSK_Average (Low Channel)



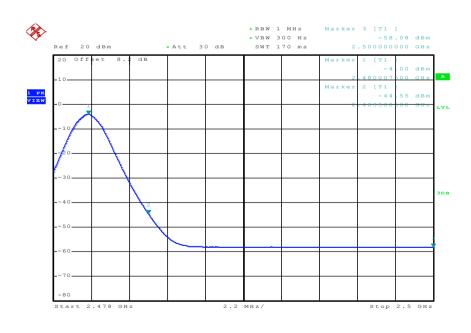
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Restrict-band band-edge measurements_Hopping Off_π/4-DQPSK_PEAK (High Channel)



Date: 27.AUG.2019 15:03:44

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



Date: 27.AUG.2019 15:03:57