Appendix A

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

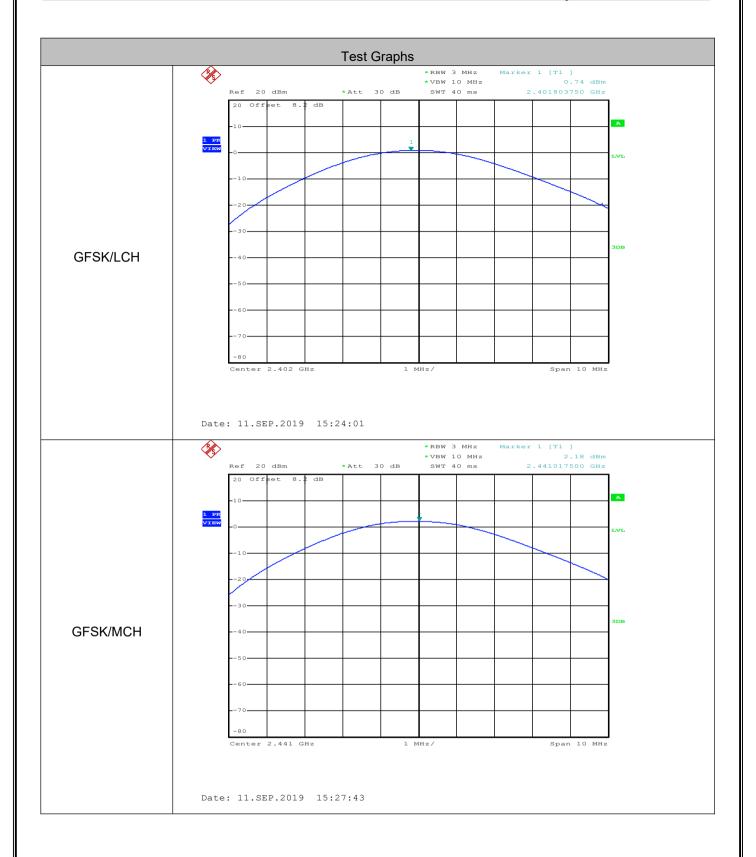
Product Name: Urbanista Athens Trade Mark: Urbanista **Test Model: Urbanista Athens**

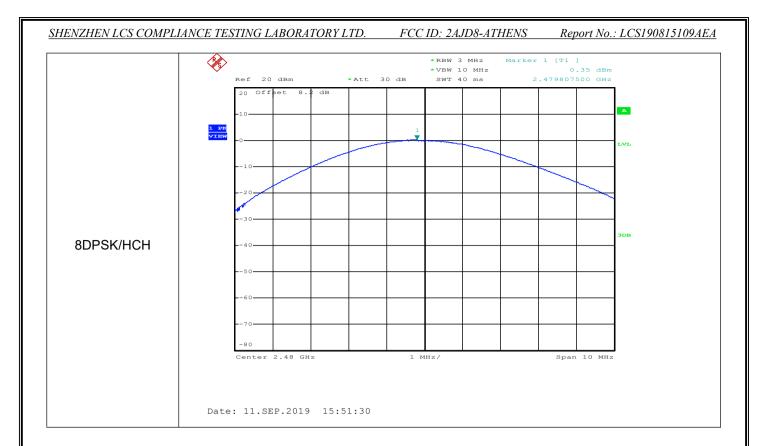
Environmental Conditions

	Temperature:	24.3 ° C				
Relative Humidity:		54.1%				
ATM Pressure:		100.0 kPa				
Test Engineer:		David Luo				
	Supervised by:	Wang.Chuang				

A.1 Maxmum Conducted Peak Output Power

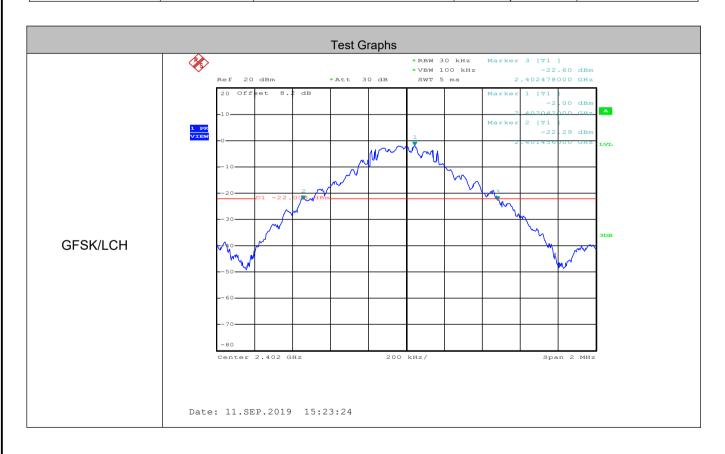
Mode	Channel.	Maximum Peak Output Power [dBm]	Limit [dBm]	Verdict
	LCH	0.740	30	PASS
GFSK	MCH	2.180	30	PASS
	НСН	0.800	30	PASS
	LCH	0.220	21	PASS
π/4DQPSK	MCH	1.470	21	PASS
	НСН	0.160	21	PASS
	LCH	0.380	21	PASS
8DPSK	MCH	1.570	21	PASS
	НСН	0.350	21	PASS

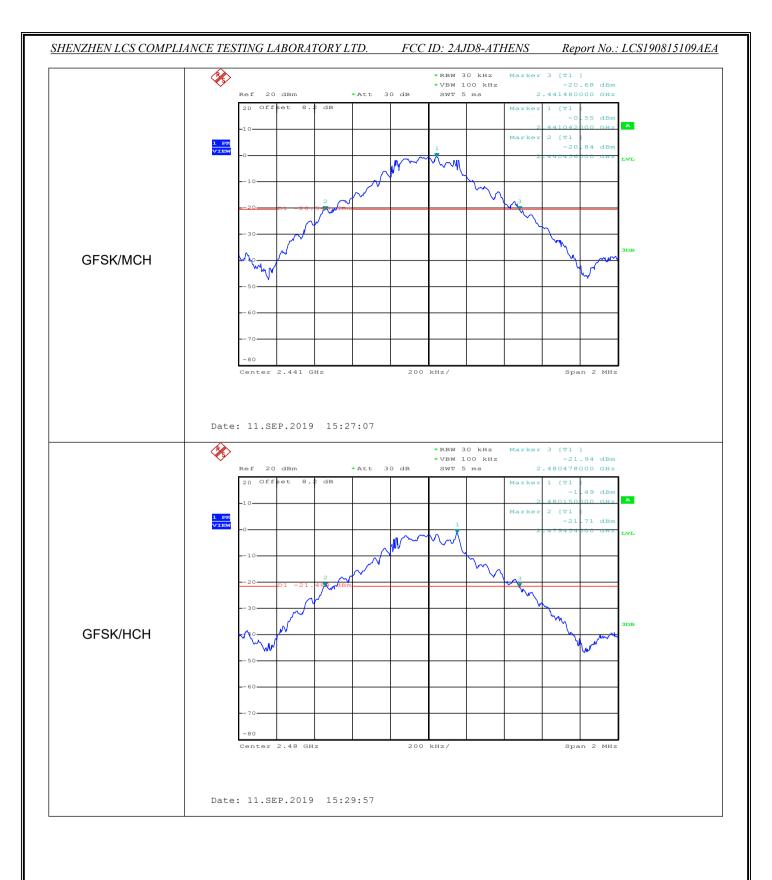


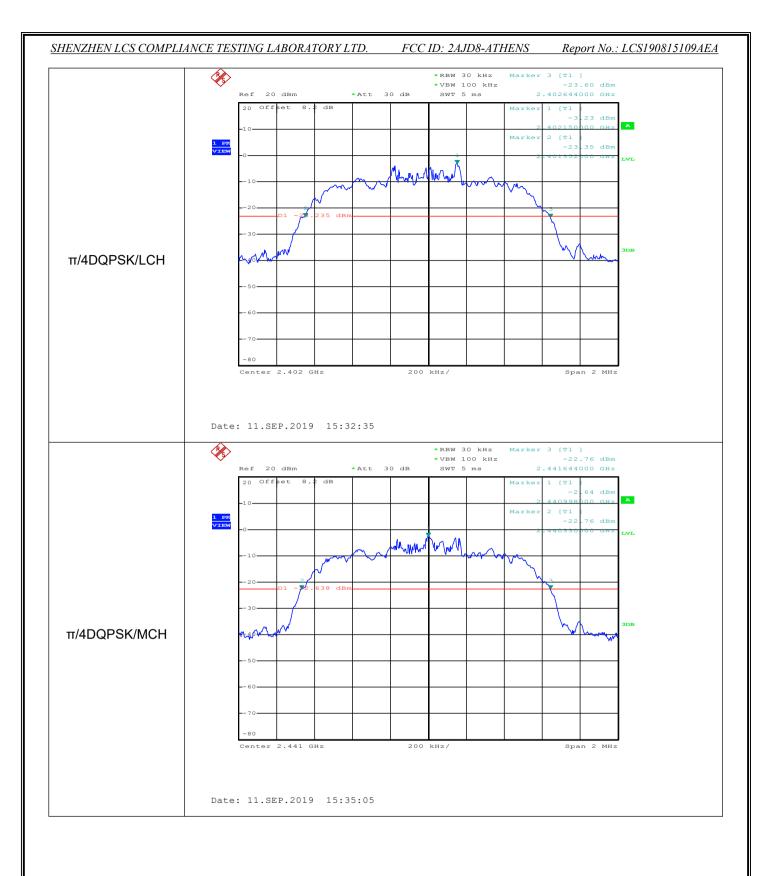


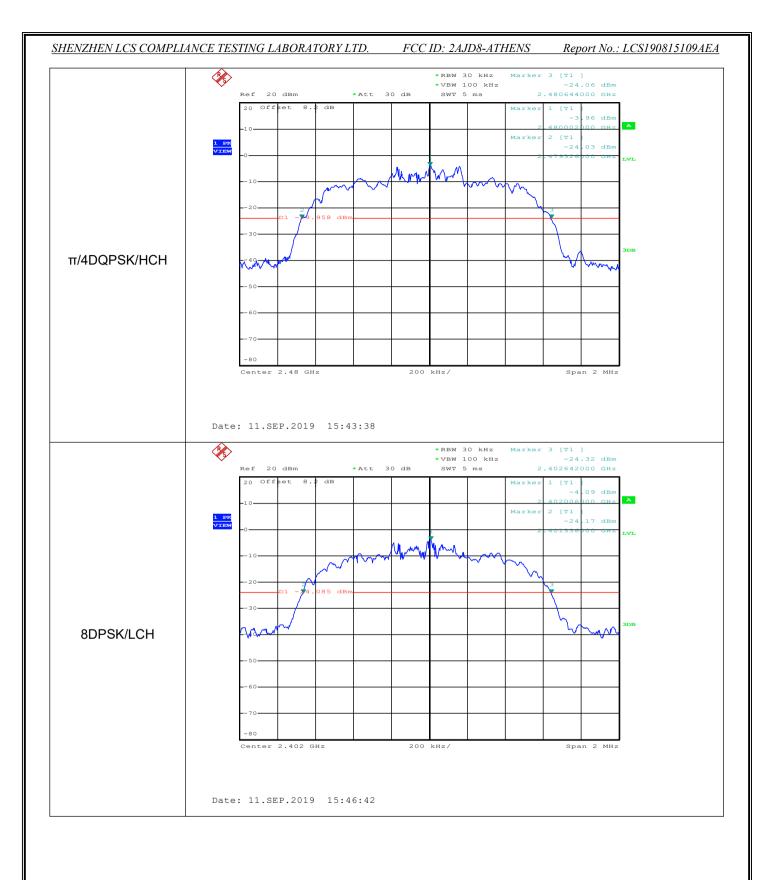
A.2 20dB Bandwidth

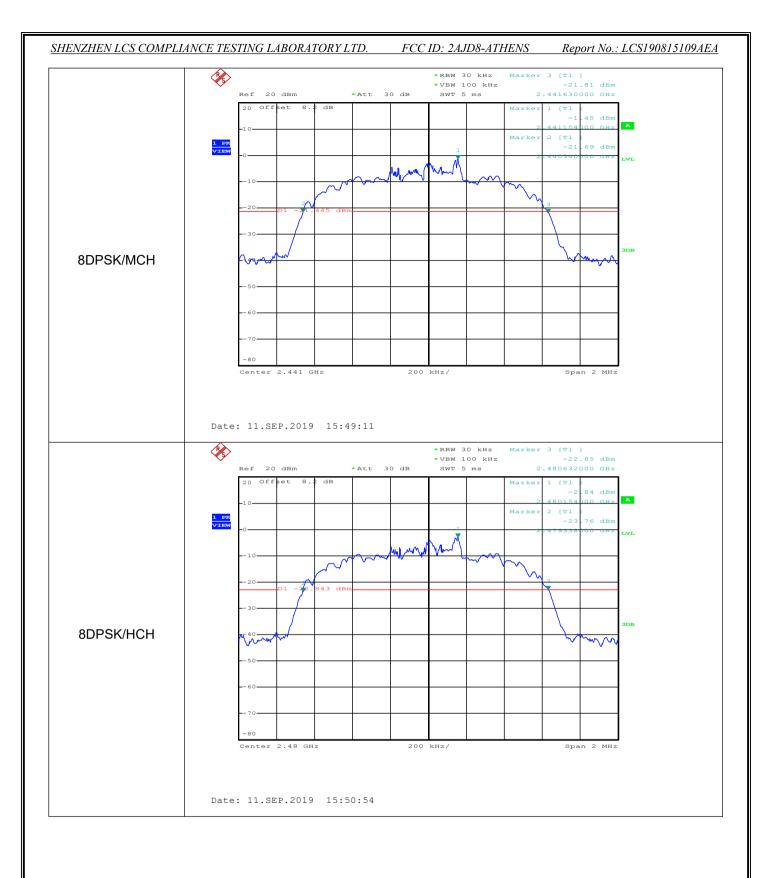
Mode	Channel.	20dB Bandwidth [MHz]	Limit [MHz]	Verdict
	LCH	1.022	Not Specified	PASS
GFSK	MCH	1.024	Not Specified	PASS
	НСН	1.024	Not Specified	PASS
	LCH	1.292	Not Specified	PASS
π/4DQPSK	MCH	1.314	Not Specified	PASS
	HCH	1.318	Not Specified	PASS
	LCH	1.306	Not Specified	PASS
8DPSK	MCH	1.290	Not Specified	PASS
	HCH	1.294	Not Specified	PASS





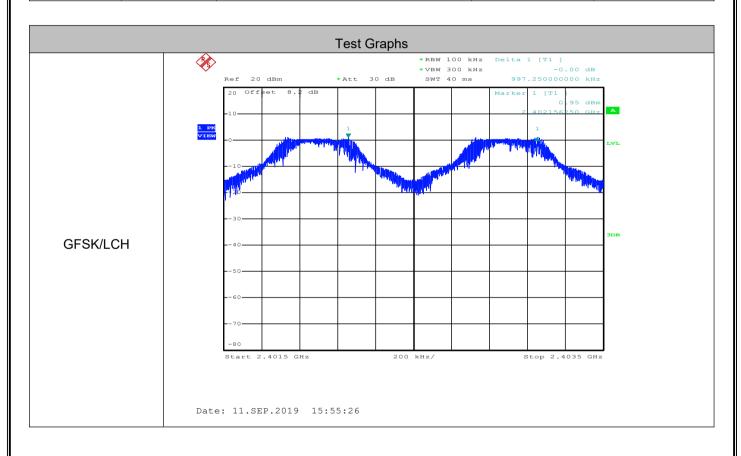


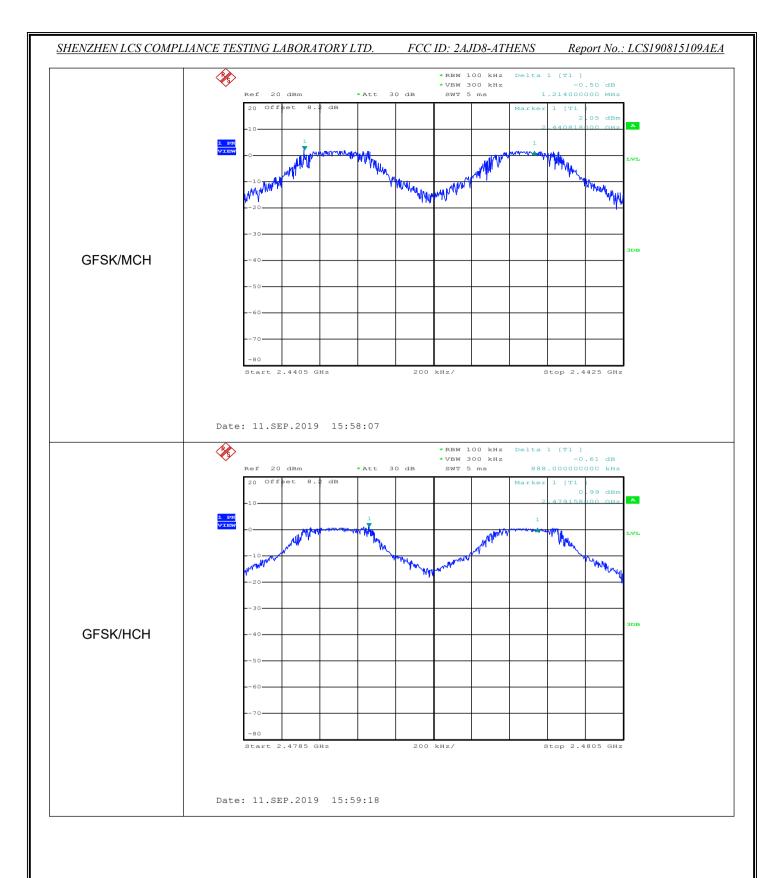


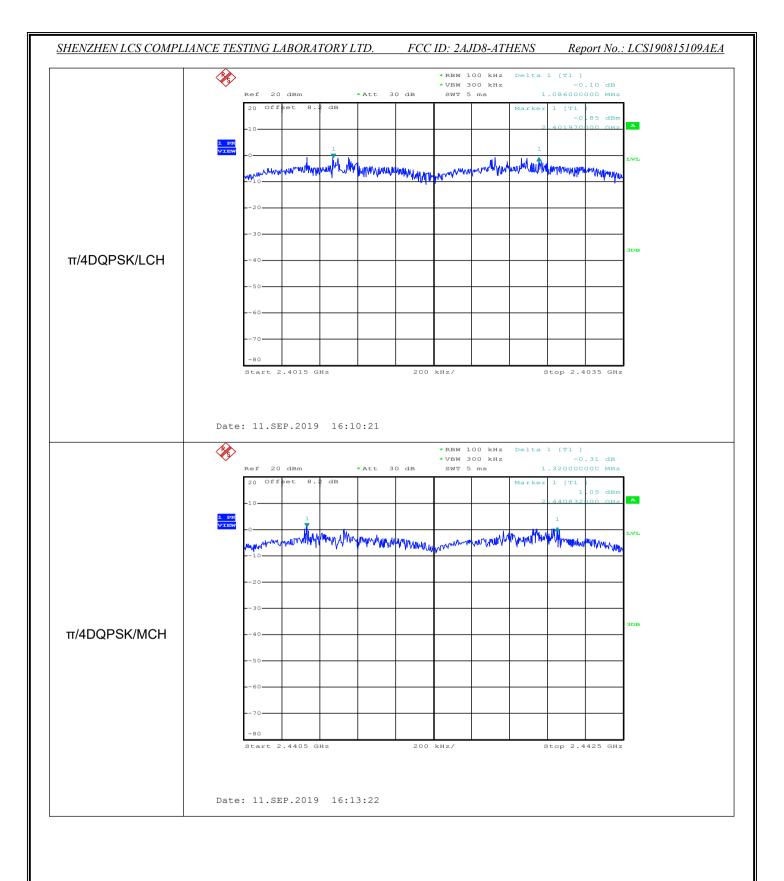


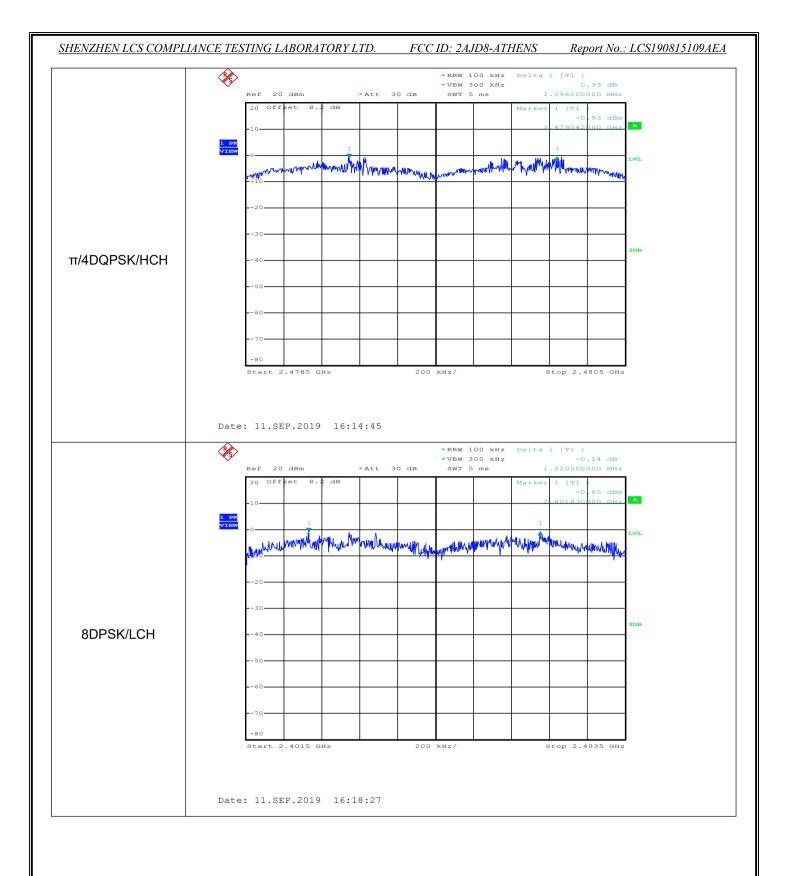
A.3 Carrier Frequency Separation

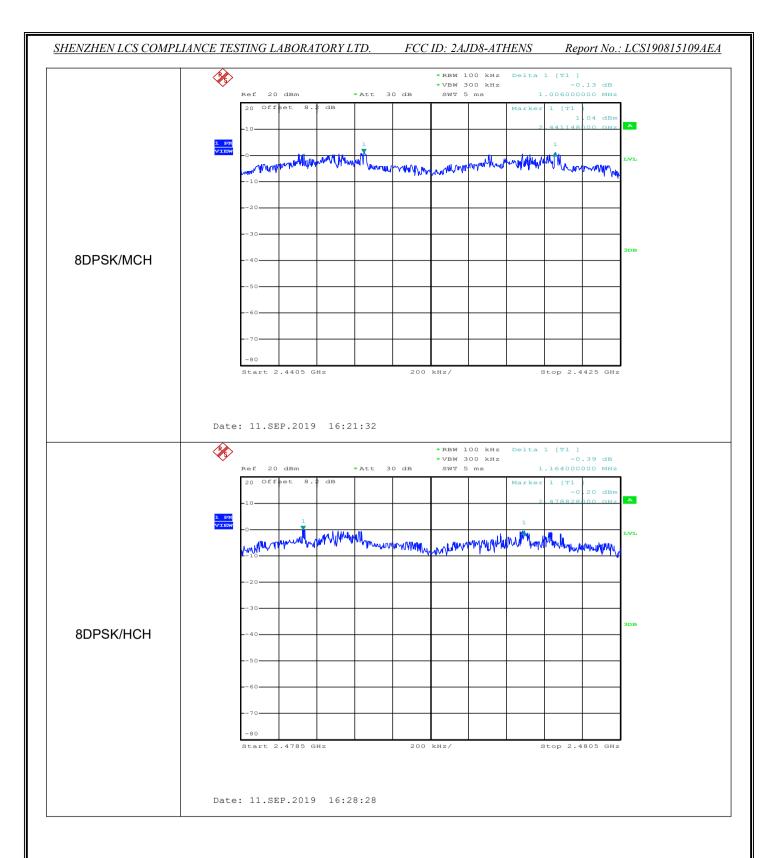
Mode	Channel.	Carrier Frequency Separation [MHz]	Limit [MHz]	Verdict
	LCH	0.997	0.683	PASS
GFSK	MCH	1.214	0.683	PASS
	HCH	0.888	0.683	PASS
	LCH	1.086	0.879	PASS
π/4DQPSK	MCH	1.320	0.879	PASS
	HCH	1.096	0.879	PASS
	LCH	1.220	0.871	PASS
8DPSK	MCH	1.006	0.871	PASS
	HCH	1.164	0.871	PASS





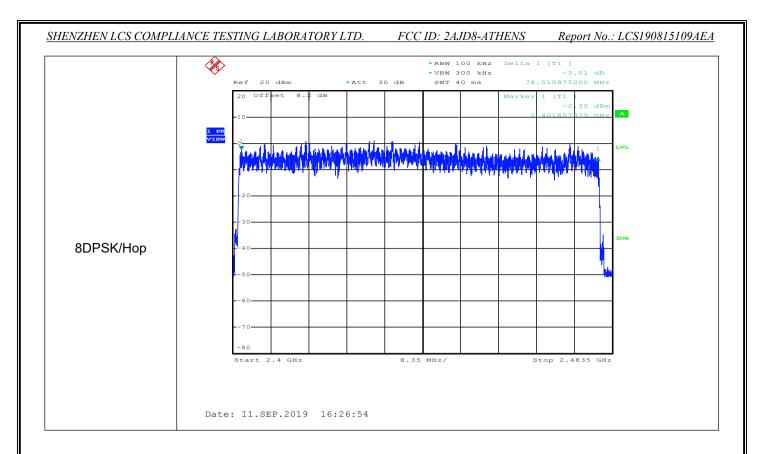






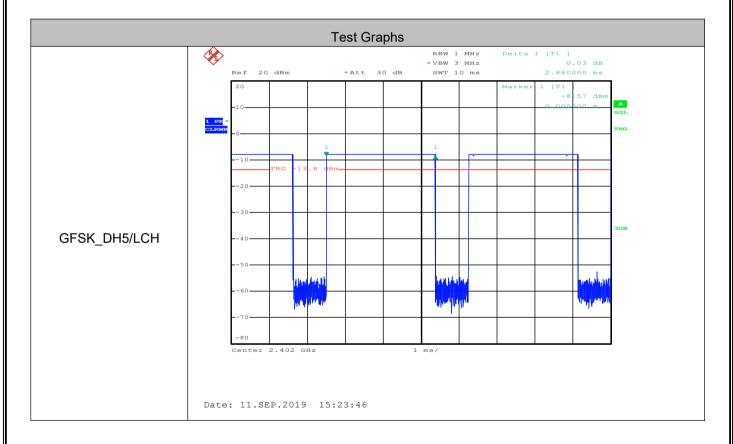
A.4 Hopping Channel Number

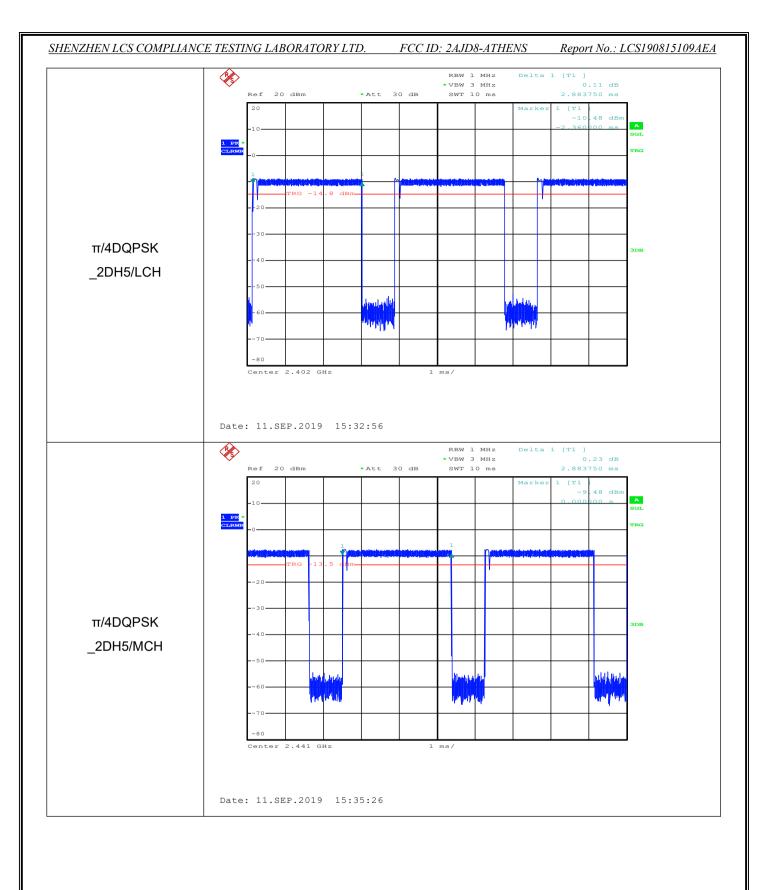
Mode	Channel. Number of Hopping Channel [N]		Limit [N]	Verdict
GFSK	Нор	79	>=15	PASS
π/4DQPSK	Нор	79	>=15	PASS
8DPSK	Нор	79	>=15	PASS

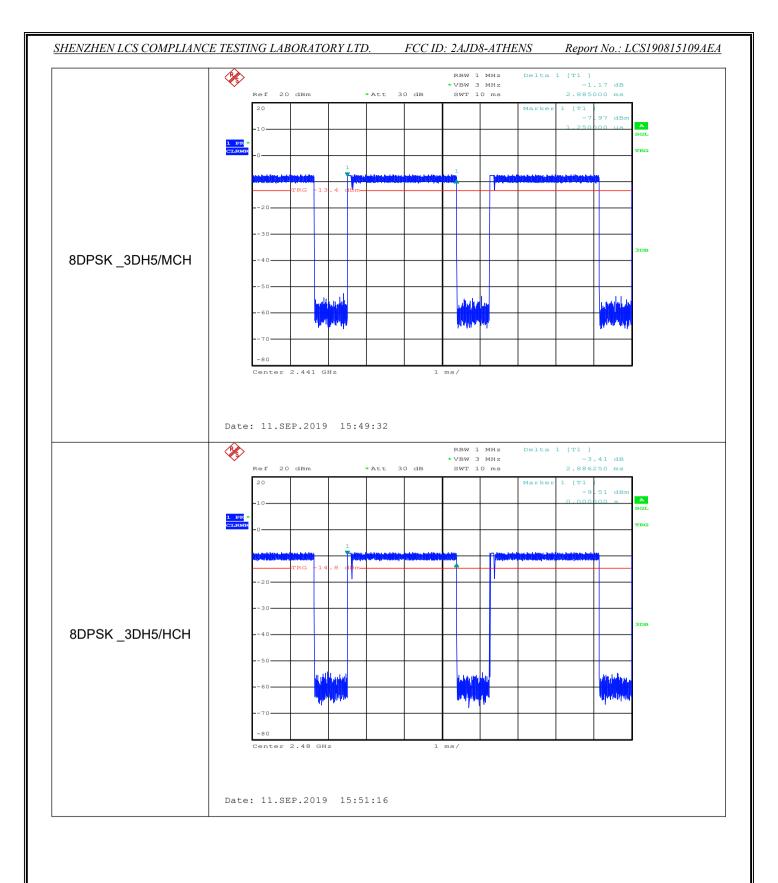


A.5 Dwell Time

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

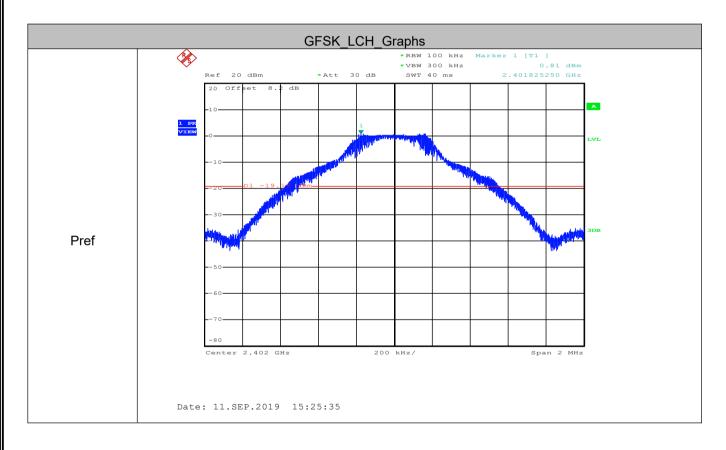


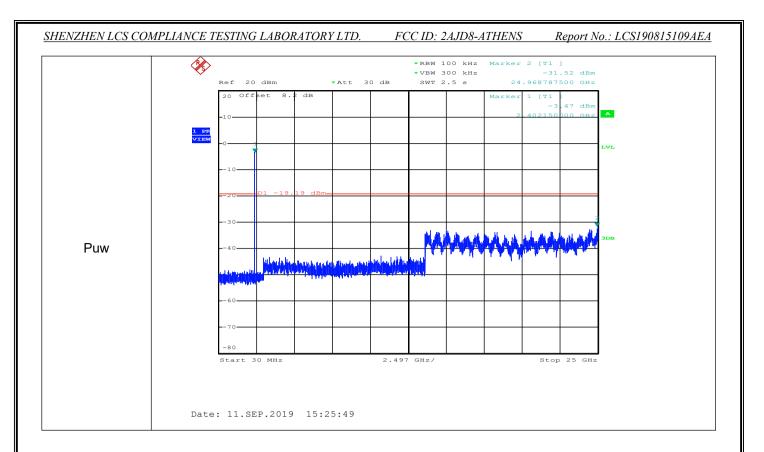


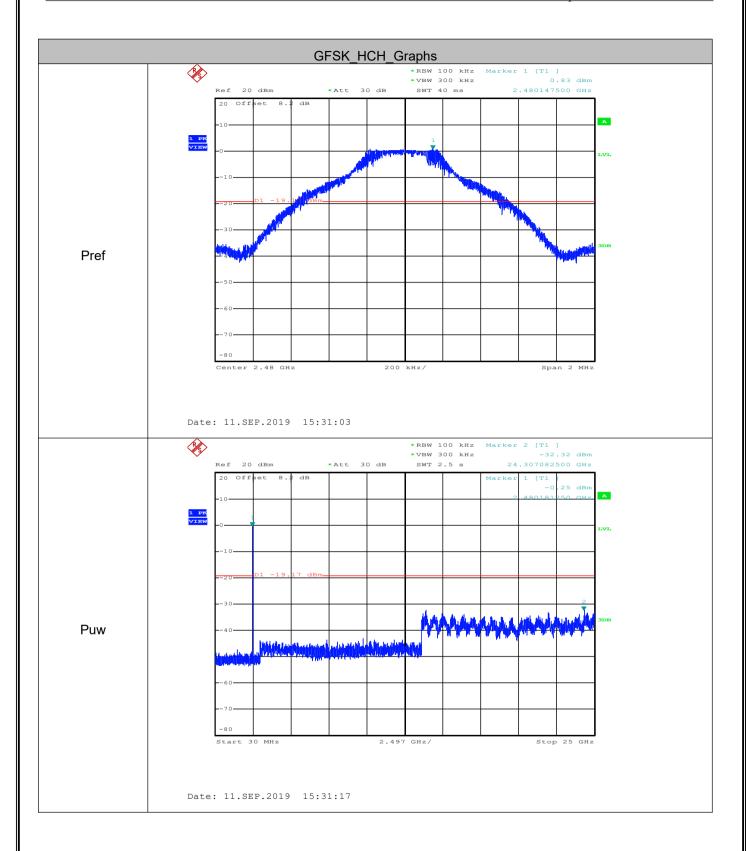


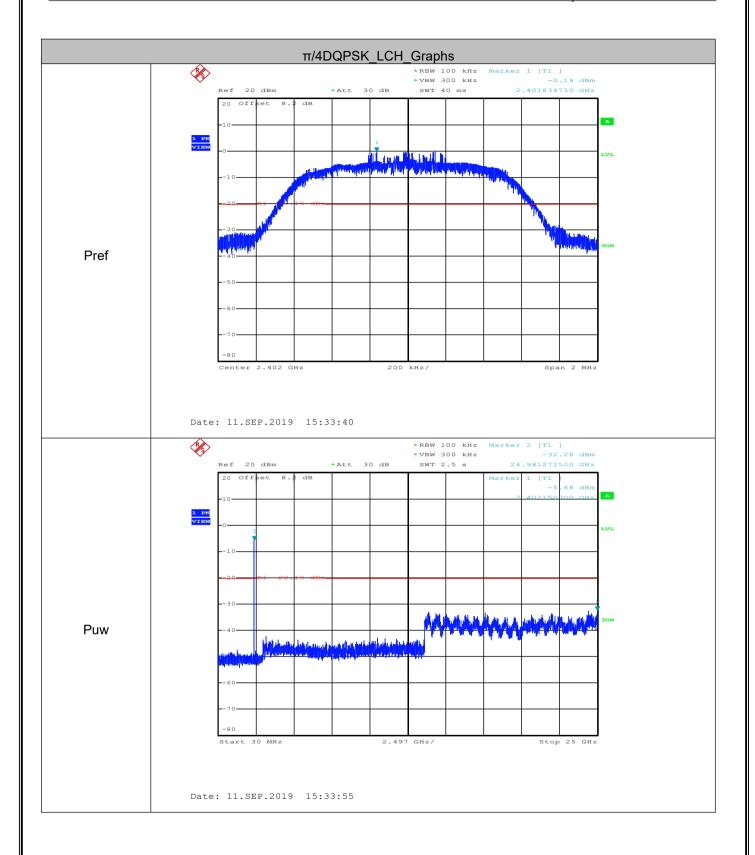
A.6 RF Conducted Spurious Emissions

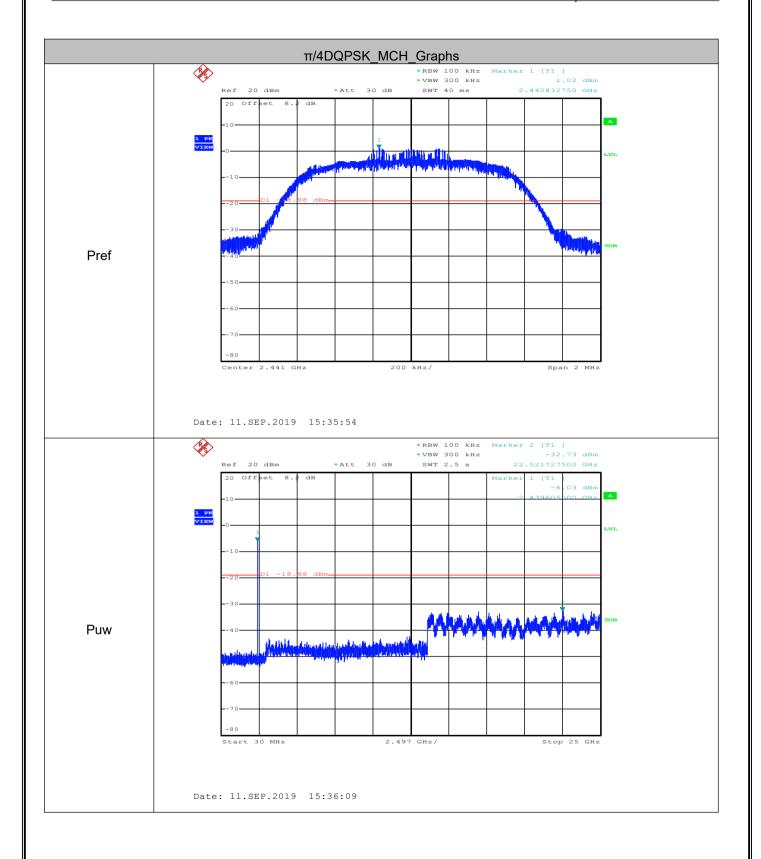
Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
	LCH	0.81	-31.520	-19.190	PASS
GFSK	MCH	2.1	-31.740	-17.900	PASS
	HCH	0.83	-32.320	-19.170	PASS
	LCH	-0.19	-32.280	-20.190	PASS
π/4DQPSK	MCH	1.02	-32.730	-18.980	PASS
	HCH	-0.3	-32.430	-20.300	PASS
	LCH	-0.18	-32.950	-20.180	PASS
8DPSK	MCH	1	-32.190	-19.000	PASS
	HCH	-0.32	-32.610	-20.320	PASS

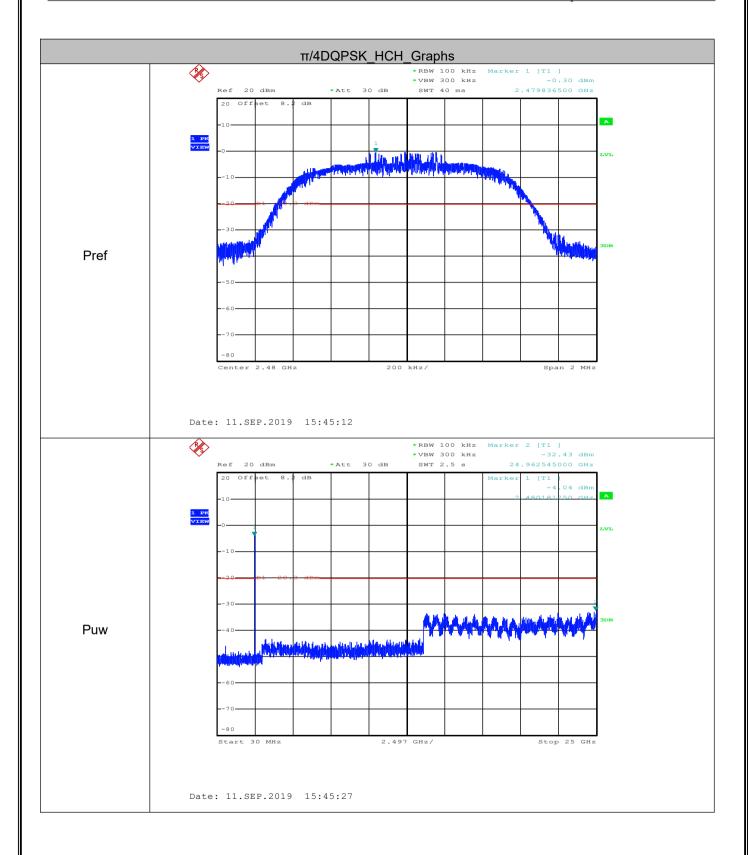


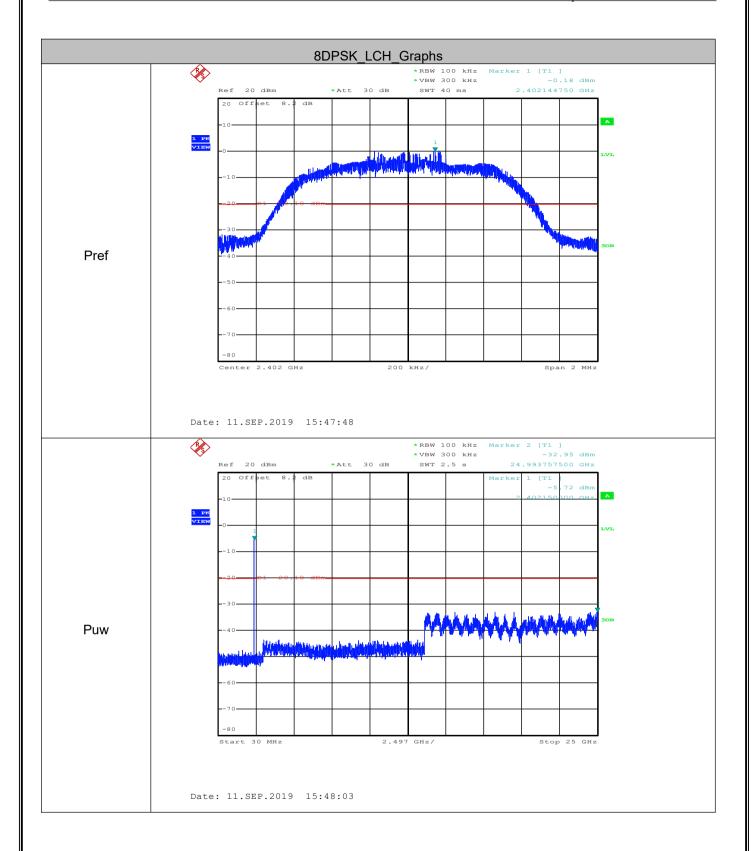


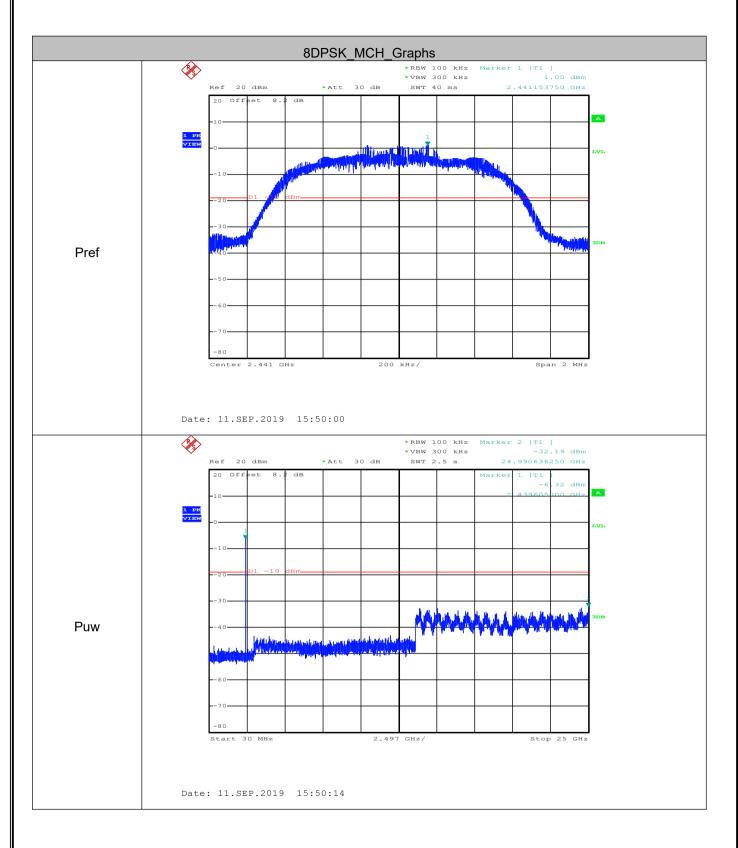


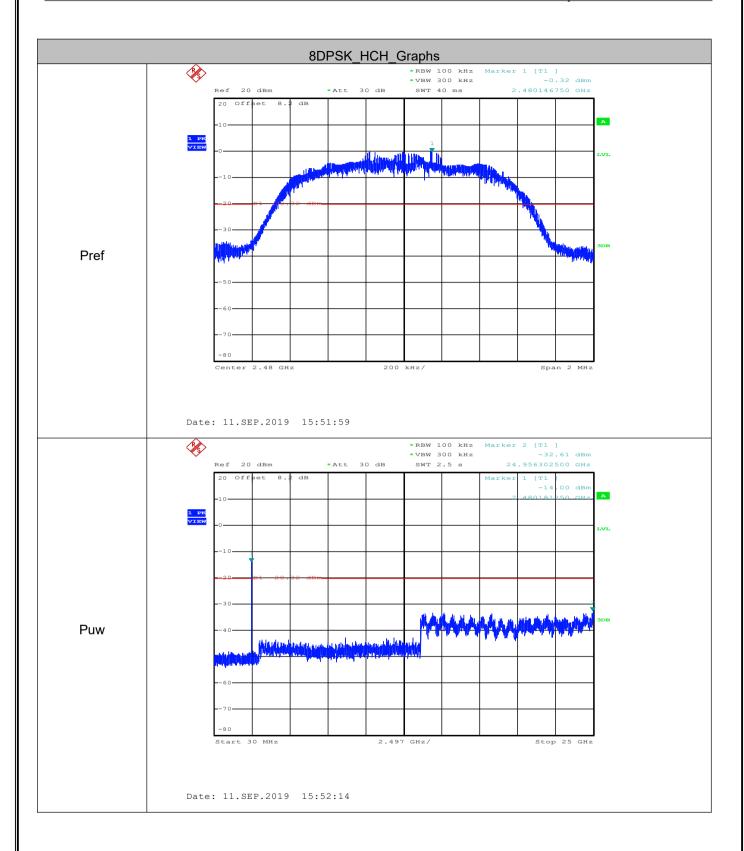






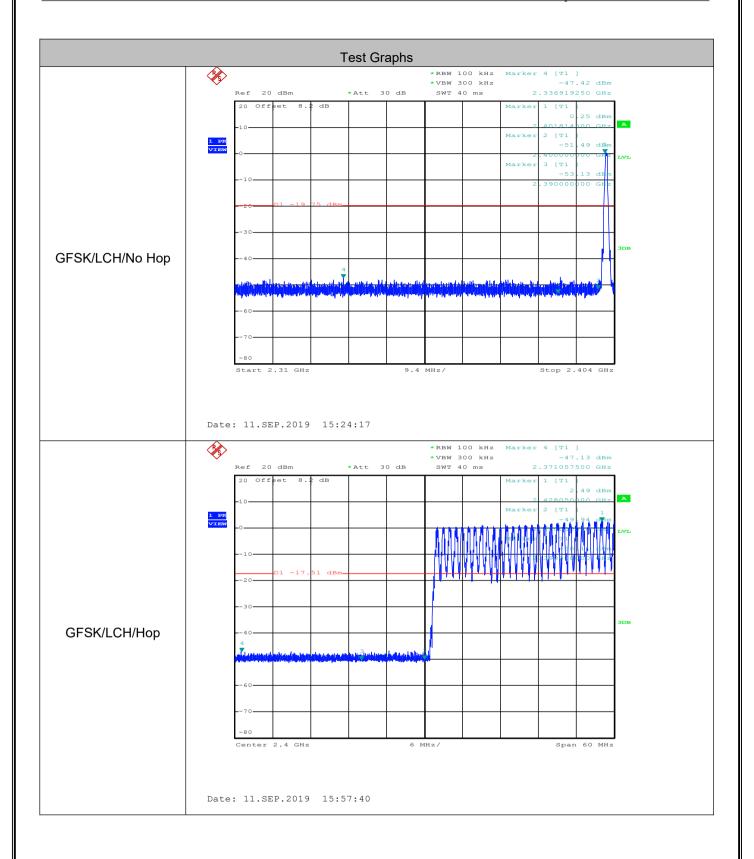


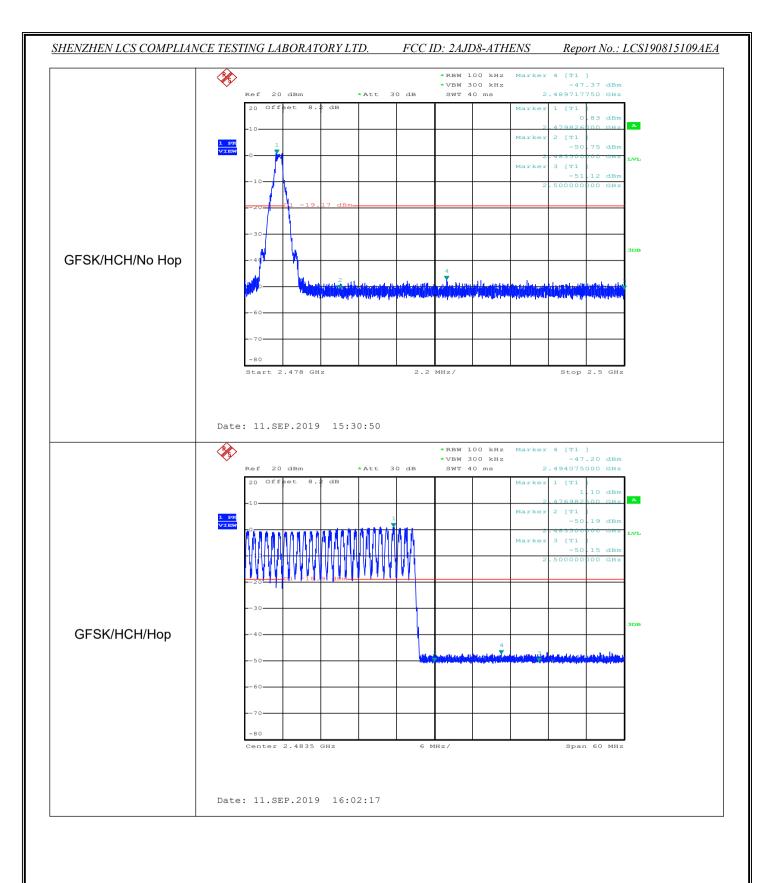


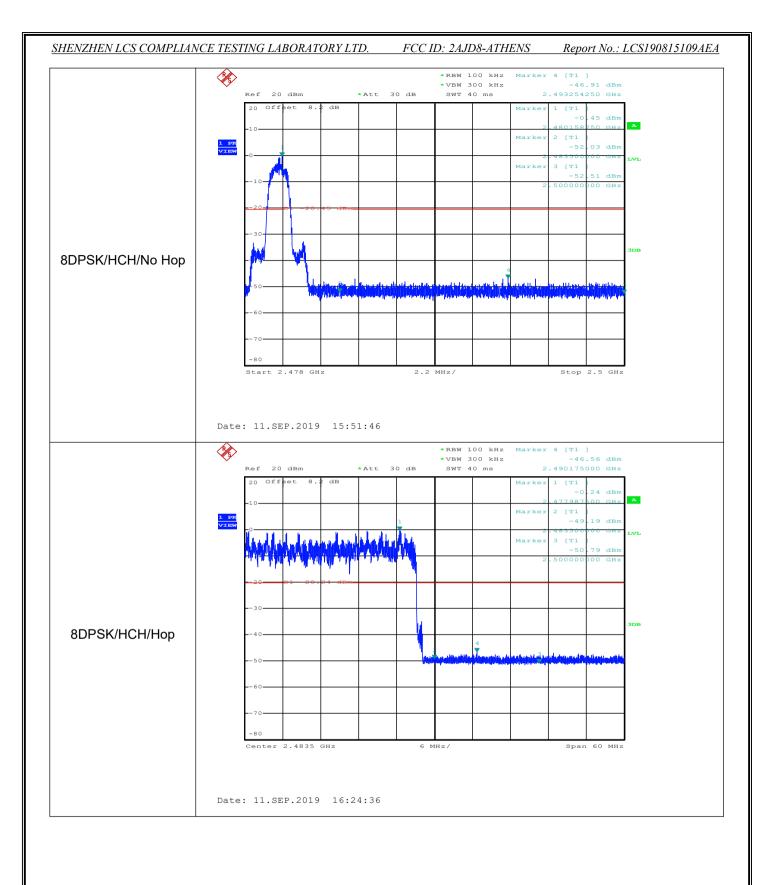


A.7 Band-edge for RF Conducted Emissions

Mode	Channel	Carrier Frequency [MHz]	Carrier Power [dBm]	Frequency Hopping	Max Spurious Level [dBm]	Limit [dBm]	Verdict
		0.400	0.250	Off	-47.424	-19.75	PASS
0501	LCH	2402	2.490	On	-47.130	-17.51	PASS
GFSK			0.830	Off	-47.368	-19.17	PASS
	HCH	2480	1.100	On	-47.197	-18.9	PASS
	LCH	LCH 2402	-4.030	Off	-46.918	-24.03	PASS
			1.410	On	-46.185	-18.59	PASS
π/4DQPSK	нсн		-0.550	Off	-46.878	-20.55	PASS
		2480	-0.280	On	-46.534	-20.28	PASS
		.CH 2402	-0.550	Off	-47.299	-20.55	PASS
	LCH		0.710	On	-46.813	-19.29	PASS
8DPSK			-0.450	Off	-46.910	-20.45	PASS
	HCH	2480	-0.240	On	-46.557	-20.24	PASS



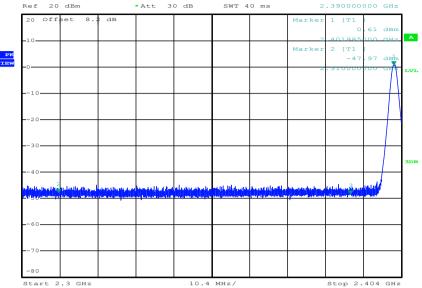




A.8 Restrict-band band-edge measurements

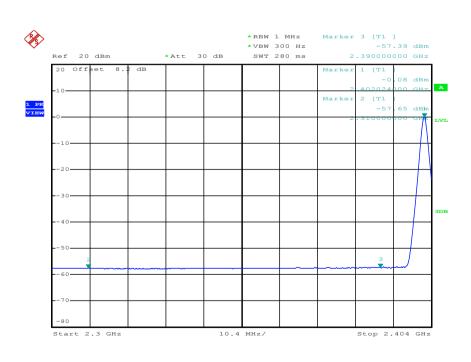
Test Mode	Hopping	Freq.	Power [dBm]	Gain	Ground Factor	E [dBuV/m]	Detector	Limit [dBuV/m]	Verdict
	Off	2310.0	-47.97	2.0	0	47.79	PEAK	74	PASS
	Off	2310.0	-57.65	2.0	0	38.11	AV	54	PASS
	Off	2390.0	-48.24	2.0	0	47.52	PEAK	74	PASS
05014	Off	2390.0	-57.39	2.0	0	38.37	AV	54	PASS
GFSK	Off	2483.5	-38.82	2.0	0	56.94	PEAK	74	PASS
	Off	2483.5	-42.35	2.0	0	53.41	AV	54	PASS
	Off	2500.0	-48.61	2.0	0	47.15	PEAK	74	PASS
	Off	2500.0	-58.09	2.0	0	37.67	AV	54	PASS
	Off	2310.0	-49.43	2.0	0	46.33	PEAK	74	PASS
	Off	2310.0	-57.69	2.0	0	38.07	AV	54	PASS
	Off	2390.0	-47.53	2.0	0	48.23	PEAK	74	PASS
(45.050)	Off	2390.0	-57.53	2.0	0	38.23	AV	54	PASS
π/4DQPSK	Off	2483.5	-39.11	2.0	0	56.65	PEAK	74	PASS
	Off	2483.5	-44.54	2.0	0	51.22	AV	54	PASS
	Off	2500.0	-48.44	2.0	0	47.32	PEAK	74	PASS
	Off	2500.0	-58.03	2.0	0	37.73	AV	54	PASS
	Off	2310.0	-49.07	2.0	0	46.69	PEAK	74	PASS
	Off	2310.0	-57.67	2.0	0	38.09	AV	54	PASS
	Off	2390.0	-48.17	2.0	0	47.59	PEAK	74	PASS
	Off	2390.0	-57.41	2.0	0	38.35	AV	54	PASS
8DPSK	Off	2483.5	-39.23	2.0	0	56.53	PEAK	74	PASS
	Off	2483.5	-44.50	2.0	0	51.26	AV	54	PASS
	Off	2500.0	-48.01	2.0	0	47.75	PEAK	74	PASS
	Off	2500.0	-58.01	2.0	0	37.75	AV	54	PASS





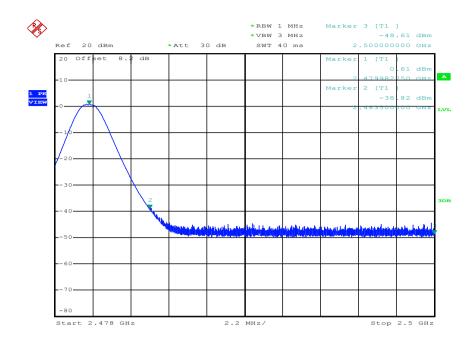
Date: 11.SEP.2019 15:26:08

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



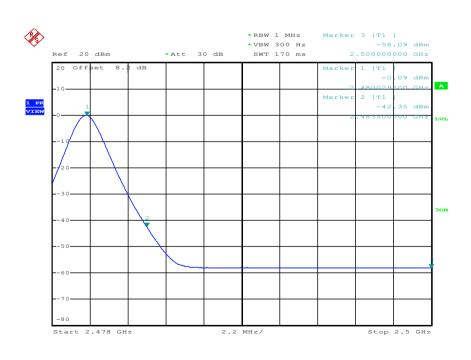
Date: 11.SEP.2019 15:26:21

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



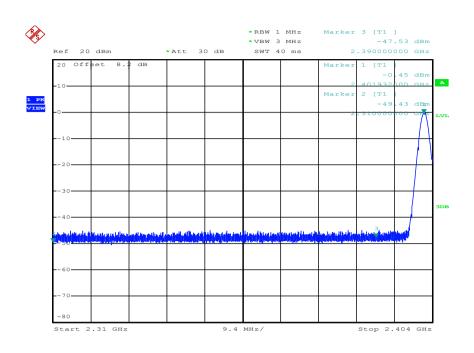
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Restrict-band band-edge measurements_Hopping Off_ GFSK_Average (High Channel)



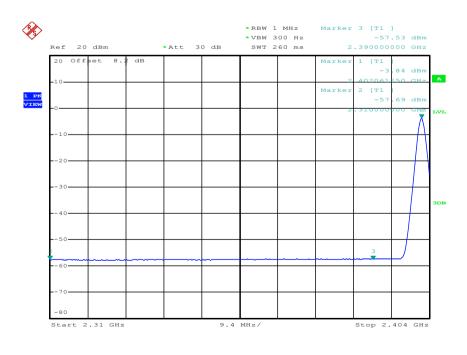
Date: 11.SEP.2019 15:31:49

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



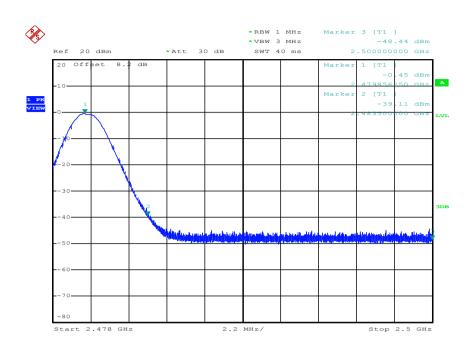
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Restrict-band band-edge measurements_Hopping Off_π/4-DQPSK_Average (Low Channel)



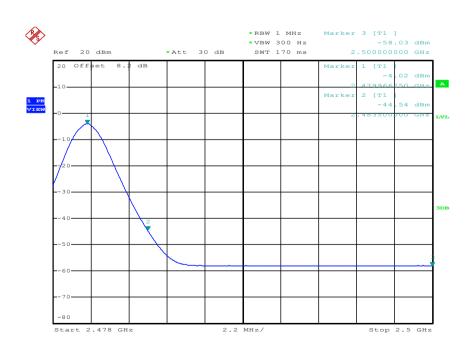
Date: 11.SEP.2019 15:34:27

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

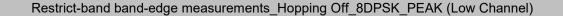


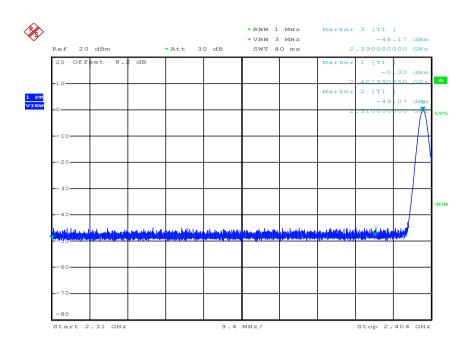
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Restrict-band band-edge measurements_Hopping Off_π/4-DQPSK_Average (High Channel)



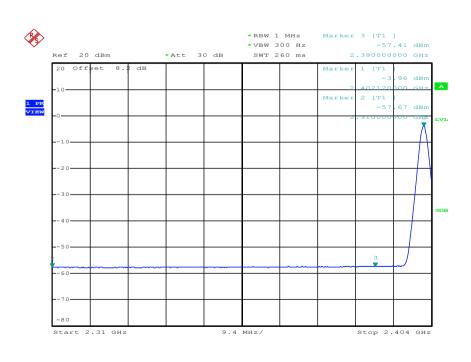
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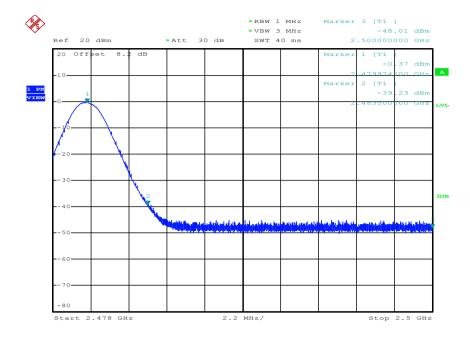
Date: 11.SEP.2019 15:48:21

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



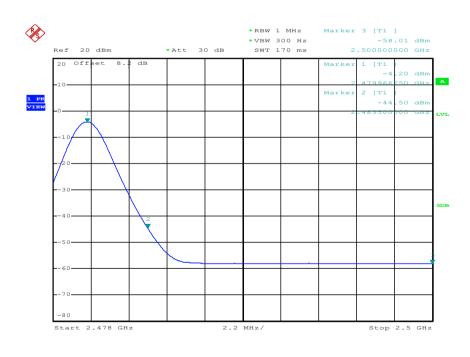
Date: 11.SEP.2019 15:48:35

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



Date: 11.SEP.2019 15:52:32

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



Date: 11.SEP.2019 15:52:46