Appendix A RF Test Data for BT(BDR/EDR) (Conducted Measurement)

Product Name: Bluetooth serial port module Trade Mark: HC

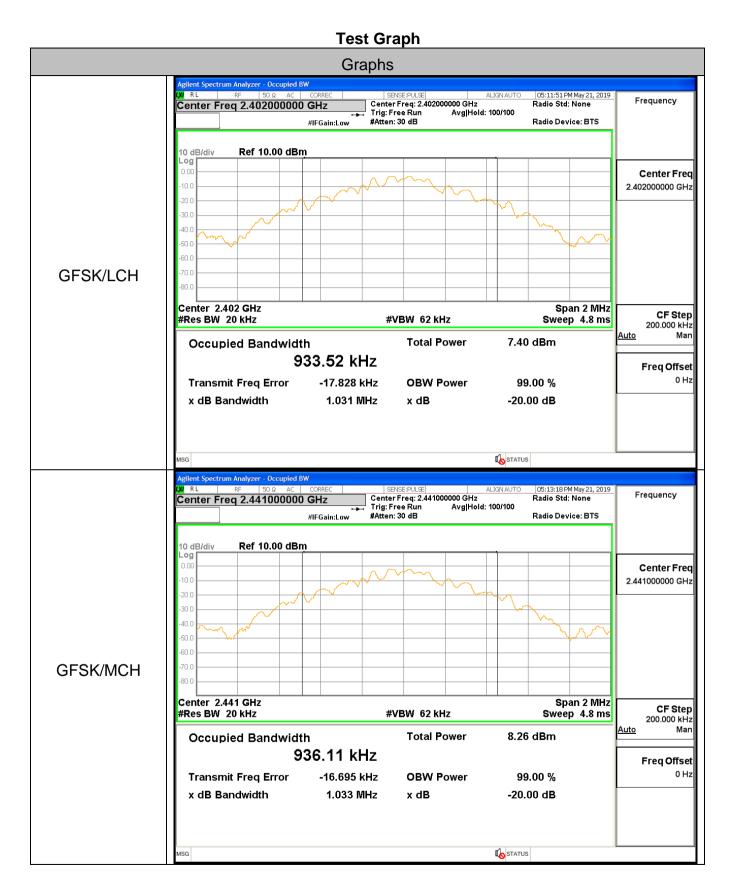
> Test Model: HC-02 FCC ID: 2AEJQHC-02

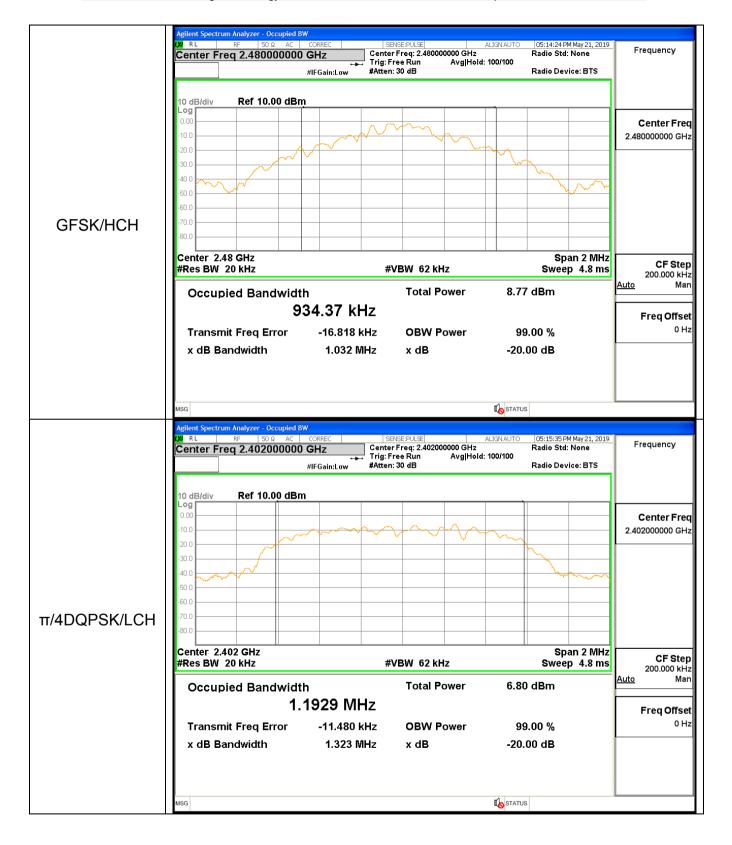
Environmental Conditions

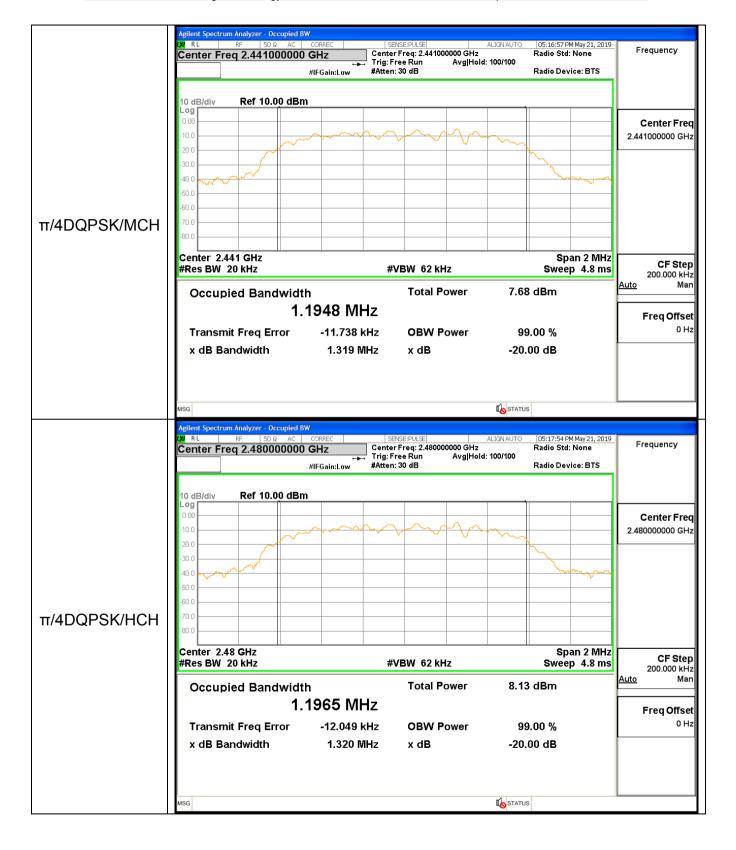
Temperature:	21.3 ° C
Relative Humidity:	50%
ATM Pressure:	100.0 kPa
Test Engineer:	Gary Qian
Supervised by:	Eden Hu

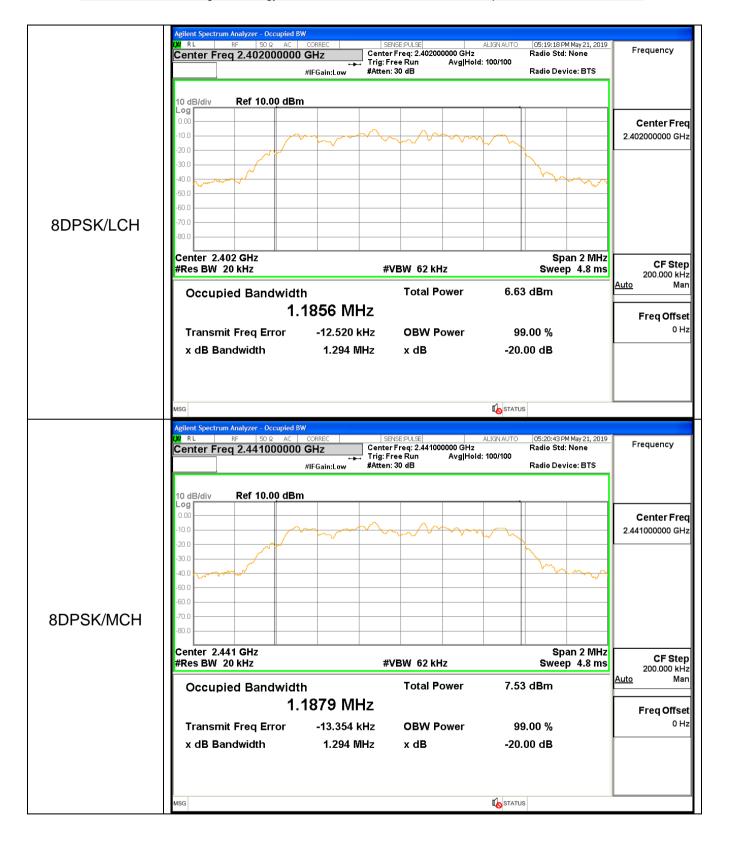
A.1 20 dB Bandwidth

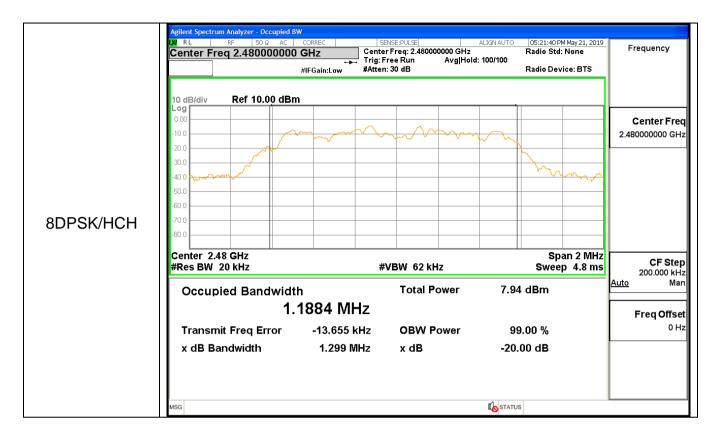
Mode	Channel.	20dB Bandwidth [MHz]	Limit(MHz)	Verdict
GFSK	LCH	1.031	Not Specified	PASS
GFSK	MCH	1.033	Not Specified	PASS
GFSK	HCH	1.032	Not Specified	PASS
π/4DQPSK	LCH	1.323	Not Specified	PASS
π/4DQPSK	MCH	1.319	Not Specified	PASS
π/4DQPSK	HCH	1.320	Not Specified	PASS
8DPSK	LCH	1.294	Not Specified	PASS
8DPSK	MCH	1.294	Not Specified	PASS
8DPSK	HCH	1.299	Not Specified	PASS







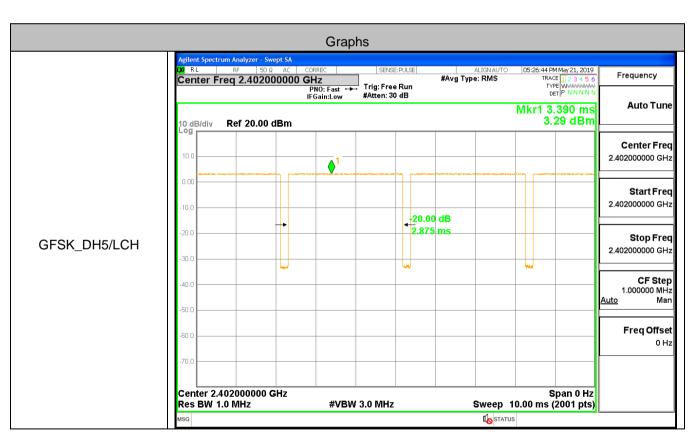


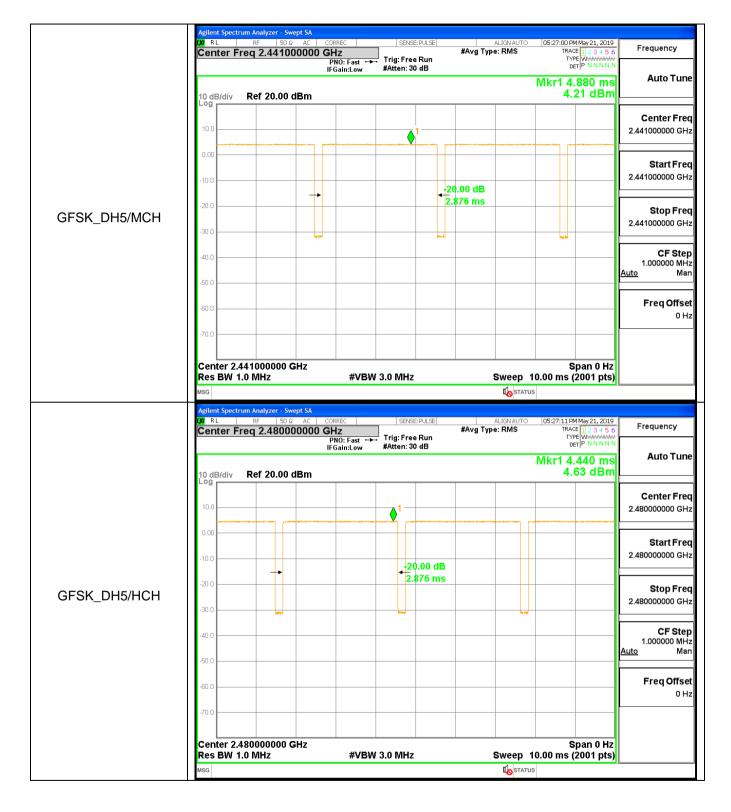


A.2 Dwell Time

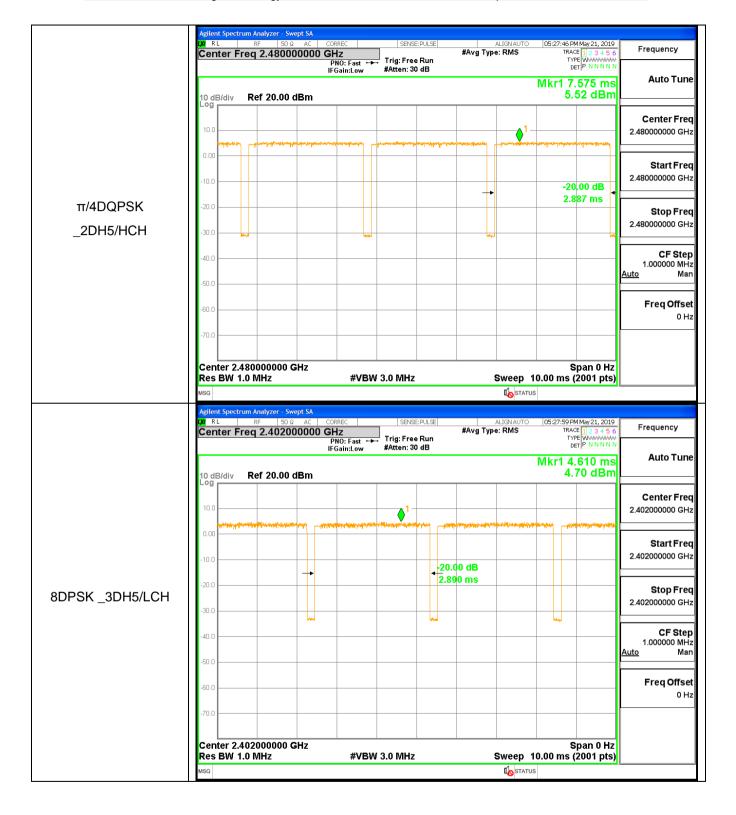
Mode	Packet	Chann el	Burst Width [s/hop/ch]	Total Hops[hop*ch]	Dwell Time[s]	Limit [s]	Verdic t
GFSK	DH5	LCH	0.002875	106.7	0.306811	0.4	PASS
GFSK	DH5	MCH	0.002876	106.7	0.306817	0.4	PASS
GFSK	DH5	HCH	0.002876	106.7	0.306829	0.4	PASS
π/4DQPSK	2DH5	LCH	0.002890	106.7	0.308374	0.4	PASS
π/4DQPSK	2DH5	МСН	0.002890	106.7	0.308387	0.4	PASS
π/4DQPSK	2DH5	НСН	0.002887	106.7	0.308062	0.4	PASS
8DPSK	3DH5	LCH	0.002890	106.7	0.308377	0.4	PASS
8DPSK	3DH5	МСН	0.002890	106.7	0.308383	0.4	PASS
8DPSK	3DH5	НСН	0.002894	106.7	0.308768	0.4	PASS

Test Graph







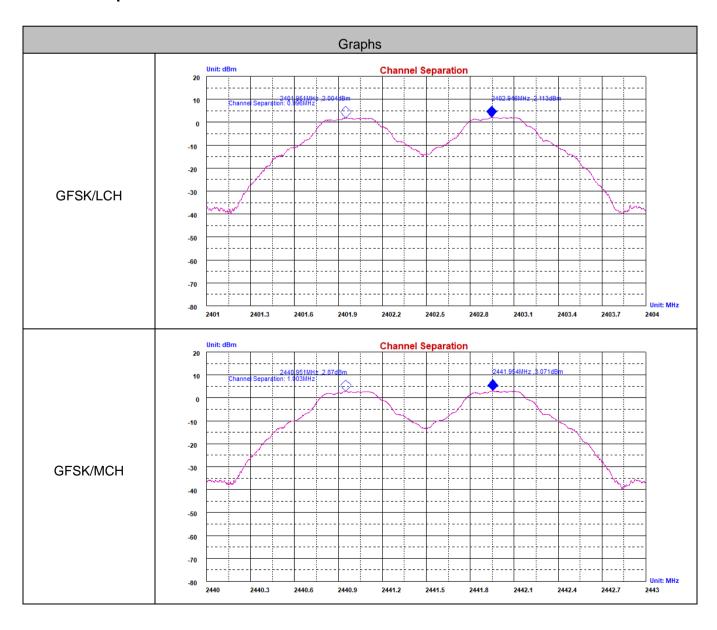


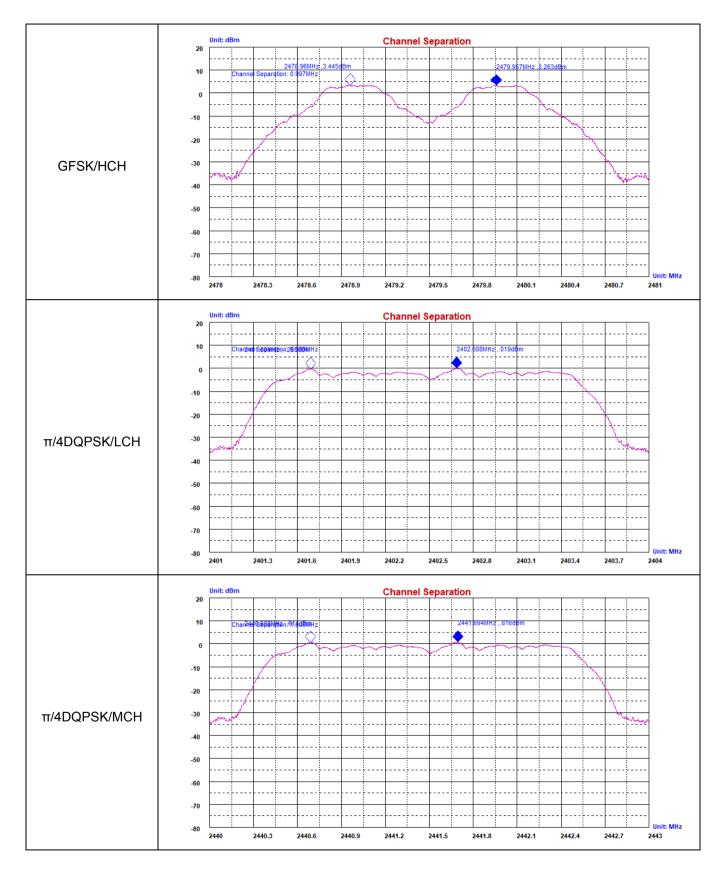


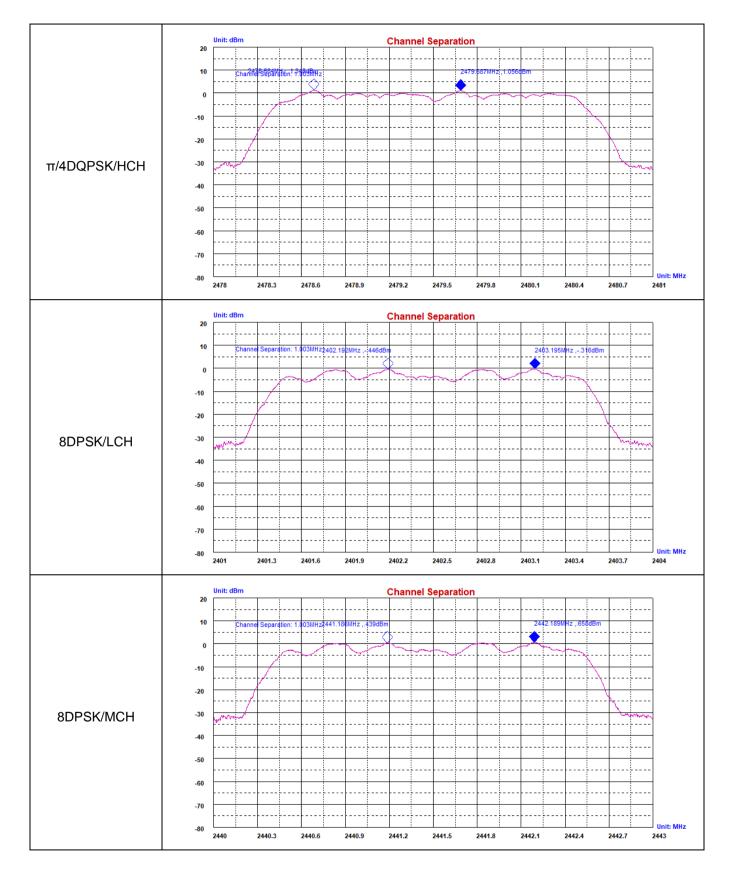
A.3 Carrier Frequency Separation

Mode	Channel.	Carrier Frequency Separation [MHz]	Limit [MHz]	Verdict
GFSK	LCH	0.996	0.687	PASS
GFSK	MCH	1.003	0.689	PASS
GFSK	HCH	0.997	0.688	PASS
π/4DQPSK	LCH	0.999	0.882	PASS
π/4DQPSK	MCH	1.006	0.879	PASS
π/4DQPSK	HCH	1.003	0.880	PASS
8DPSK	LCH	1.003	0.863	PASS
8DPSK	MCH	1.003	0.863	PASS
8DPSK	HCH	0.999	0.866	PASS

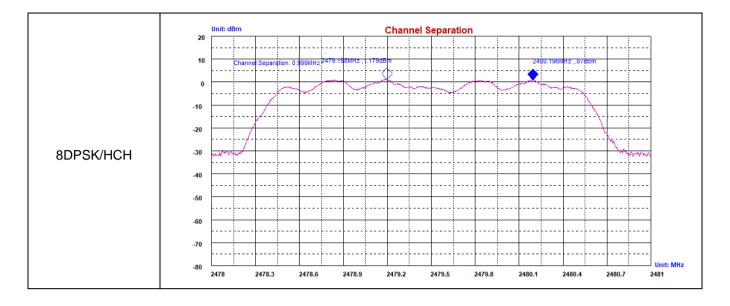
Test Graph







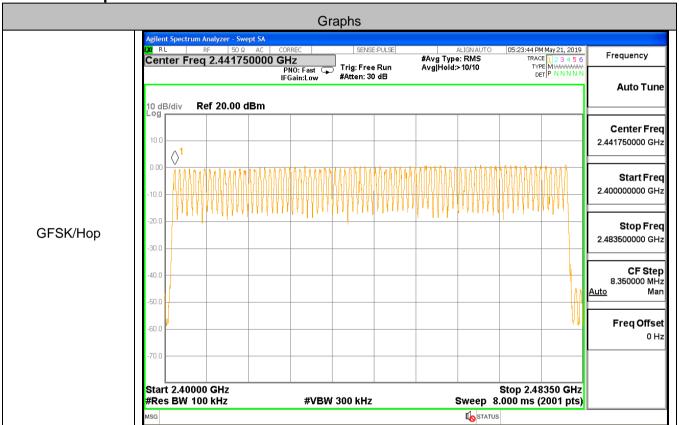
Shenzhen HUAK Testing Technology Co., Ltd. FCC ID: 2AEJQHC-02 Report No.: HK1905151041-E2

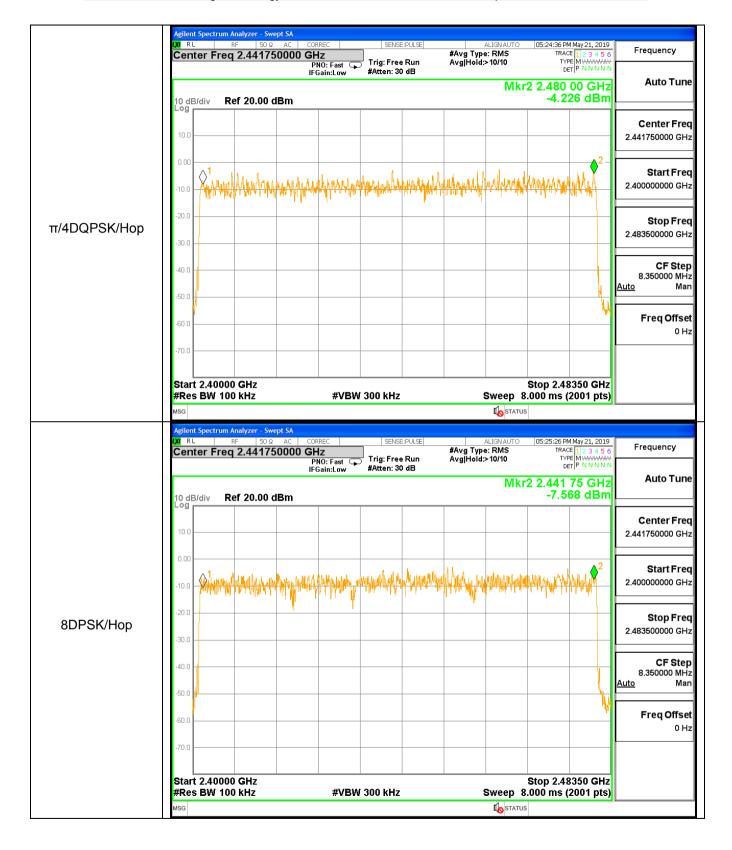


A.4 Hopping Channel Number

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



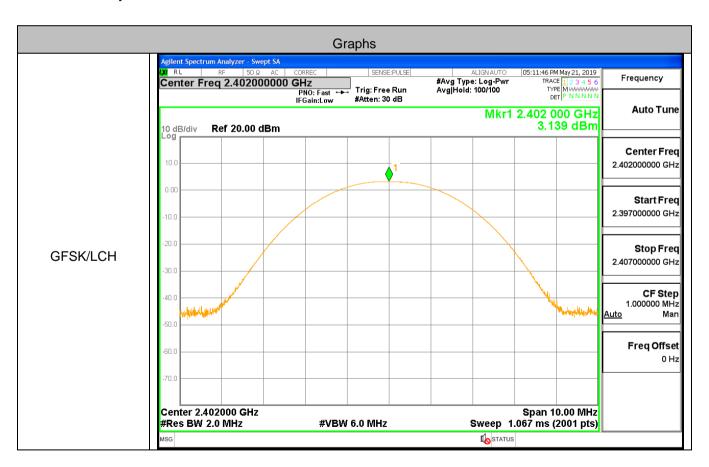


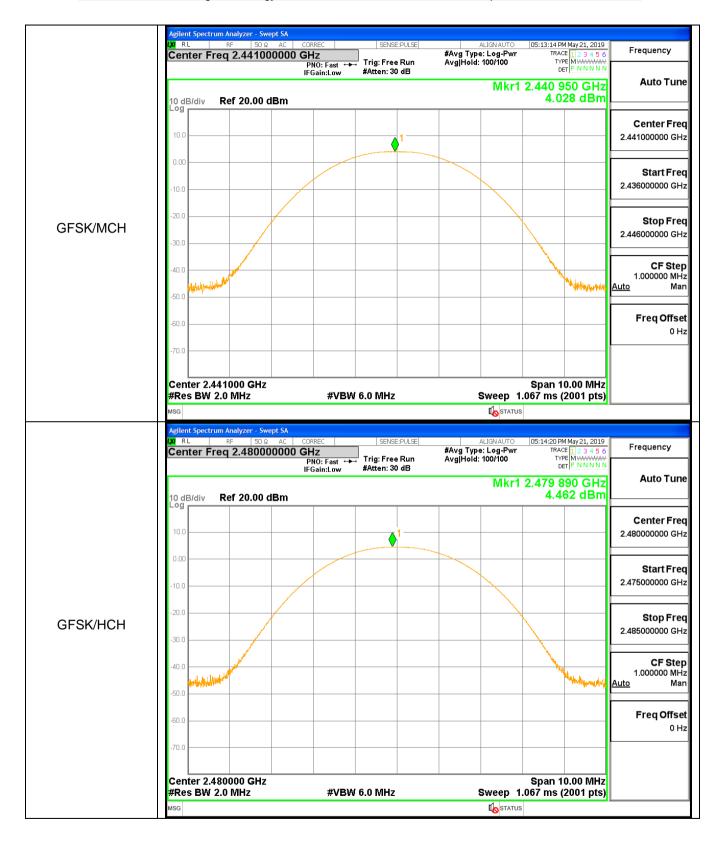


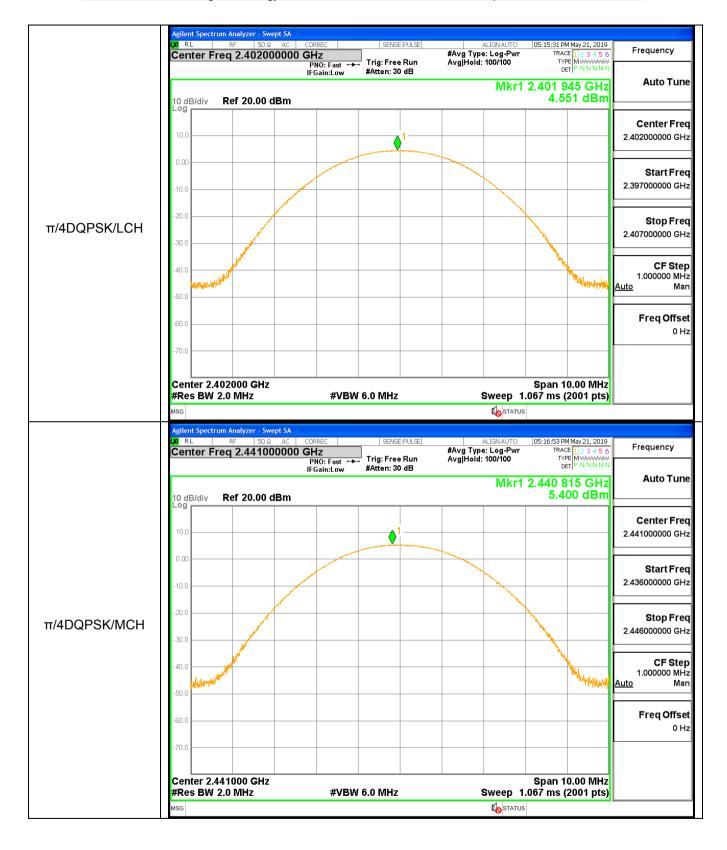
A.5 Conducted Peak Output Power

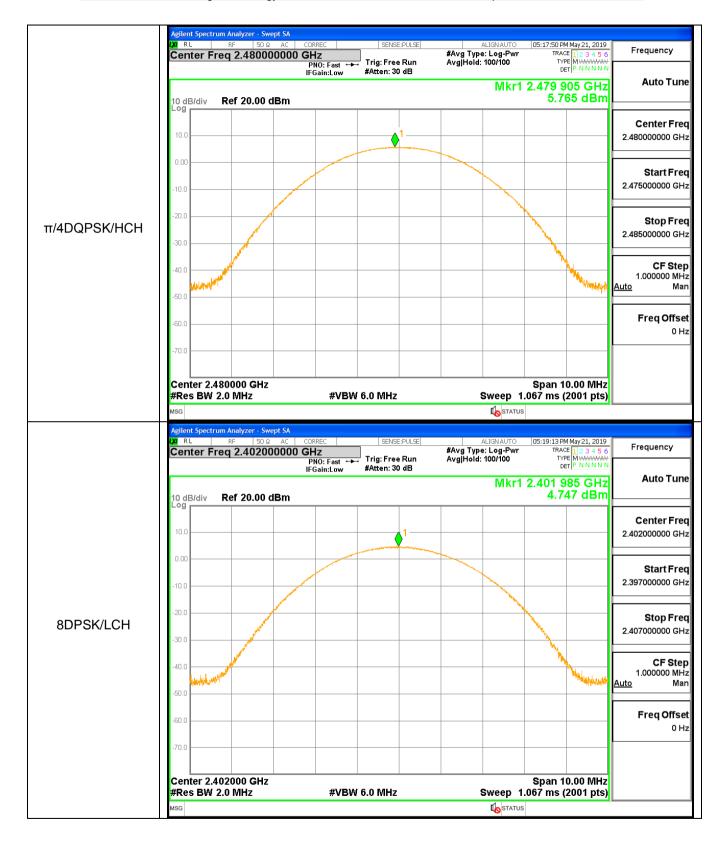
Mode	Channel.	Maximum Peak Output Power [dBm]	Limit [dBm]	Verdict
GFSK	LCH	3.139	21	PASS
GFSK	MCH	4.028	21	PASS
GFSK	НСН	4.462	21	PASS
π/4DQPSK	LCH	4.551	21	PASS
π/4DQPSK	MCH	5.400	21	PASS
π/4DQPSK	НСН	5.765	21	PASS
8DPSK	LCH	4.747	21	PASS
8DPSK	MCH	5.549	21	PASS
8DPSK	НСН	5.910	21	PASS

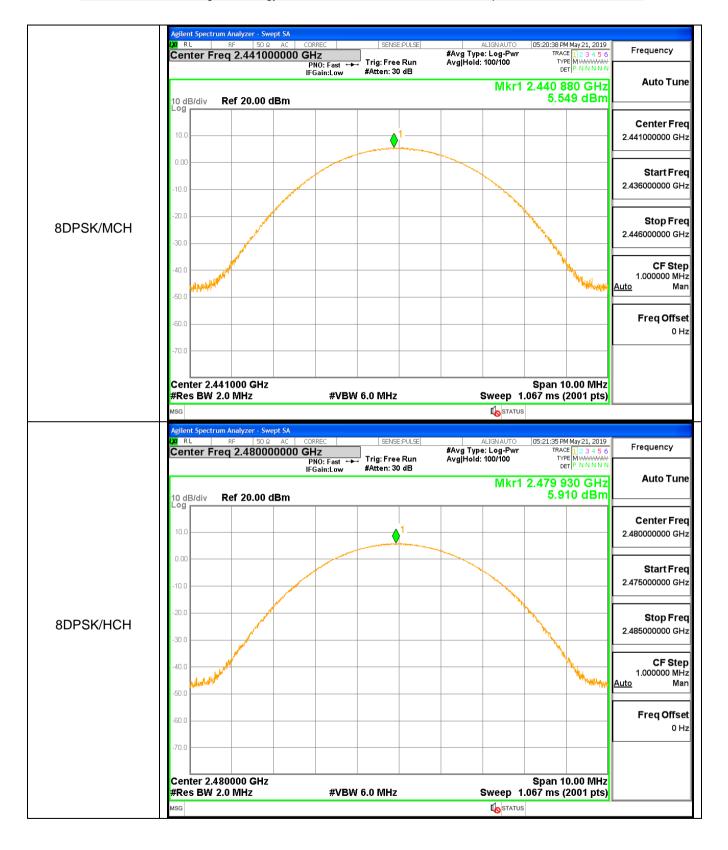
Test Graph





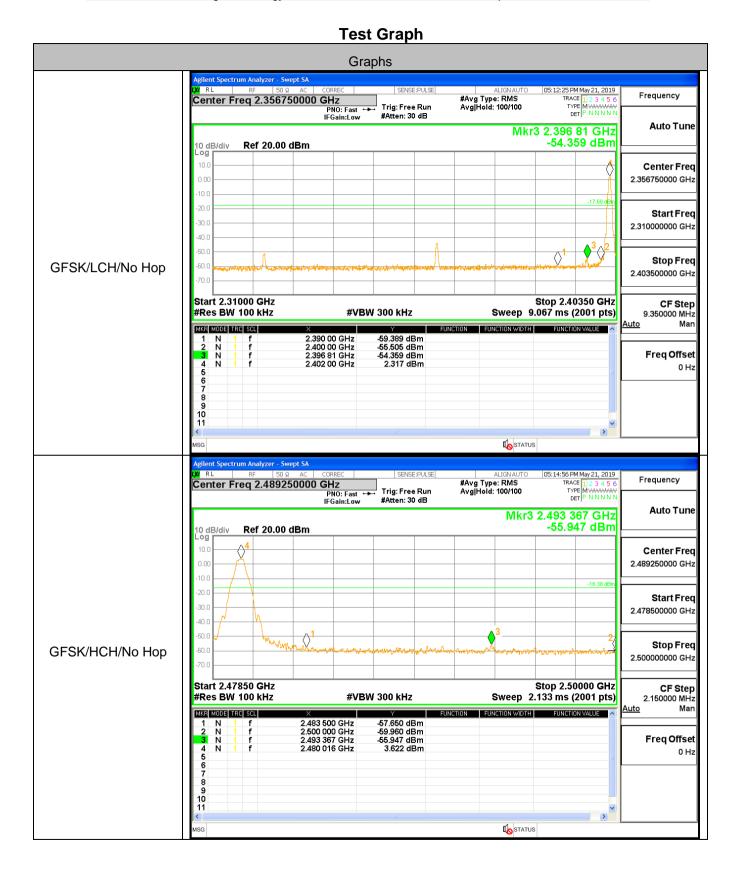


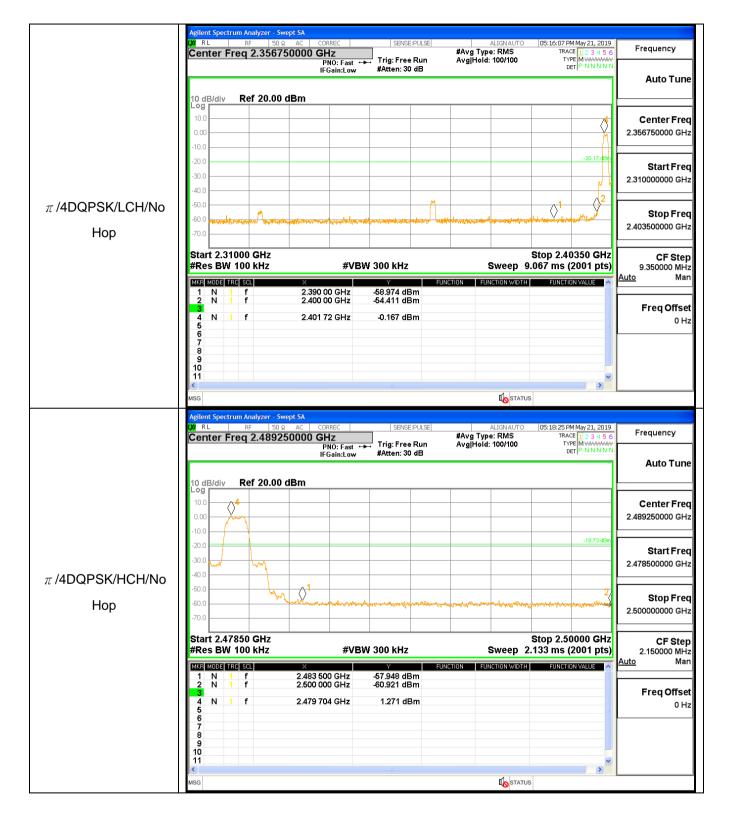




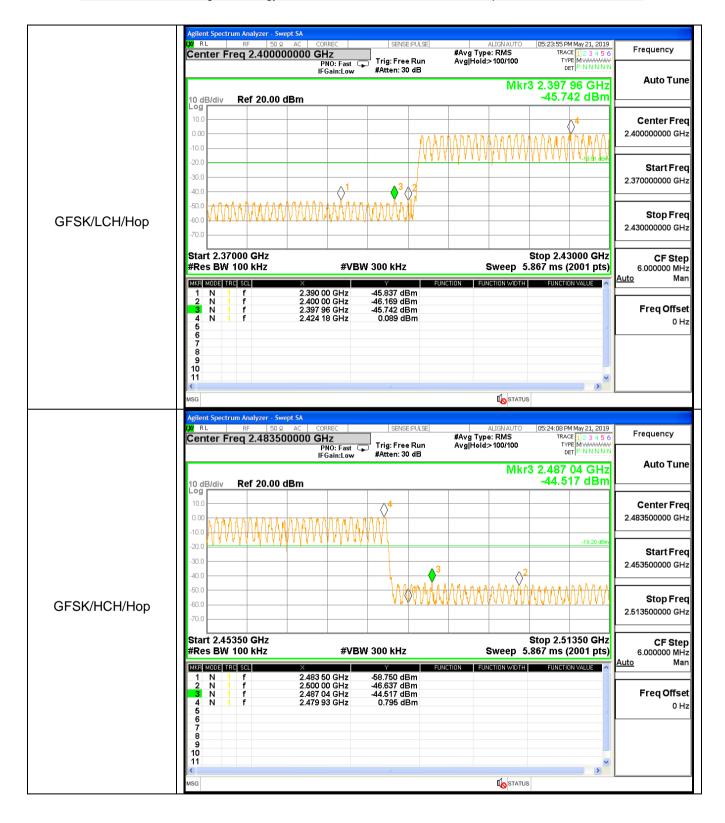
A.6 Band-edge for RF Conducted Emissions

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Туре	Carrier Frequency(MHz)	Frequency(MHz)	Carrier Frequency Power [dBm]	Bandedge Peak(dBm)	Upper limit(dBm)	Conclusio n				
1DH5	2402	2396.81	2.317	-54.36	-17.683	Pass				
1DH5	2480	2493.37	3.622	-55.95	-16.378	Pass				
2DH5	2402	2400.00	-0.167	-54.41	-20.167	Pass				
2DH5	2480	2483.50	1.271	-57.95	-18.729	Pass				
3DH5	2402	2400.00	-0.050	-53.87	-20.050	Pass				
3DH5	2480	2483.50	1.223	-57.39	-18.777	Pass				
1DH5-Hopping	2402	2397.96	0.089	-45.74	-19.911	Pass				
1DH5-Hopping	2480	2487.04	0.795	-44.52	-19.205	Pass				
2DH5-Hopping	2402	2398.08	-3.619	-50.96	-23.619	Pass				
2DH5-Hopping	2480	2486.95	-2.690	-48.48	-22.690	Pass				
3DH5-Hopping	2402	2399.88	-3.552	-51.27	-23.552	Pass				
3DH5-Hopping	2480	2488.18	-2.827	-48.92	-22.827	Pass				

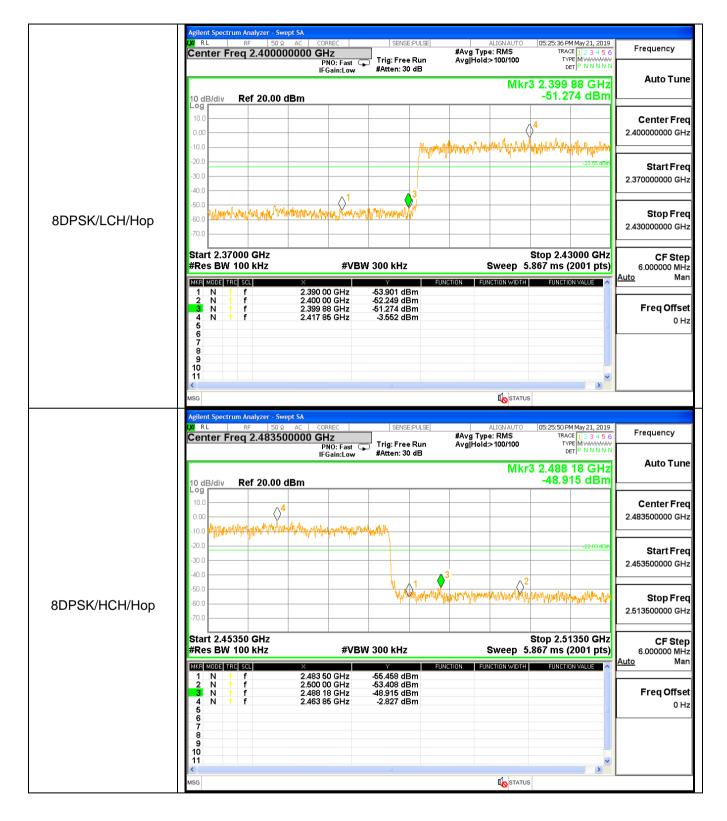




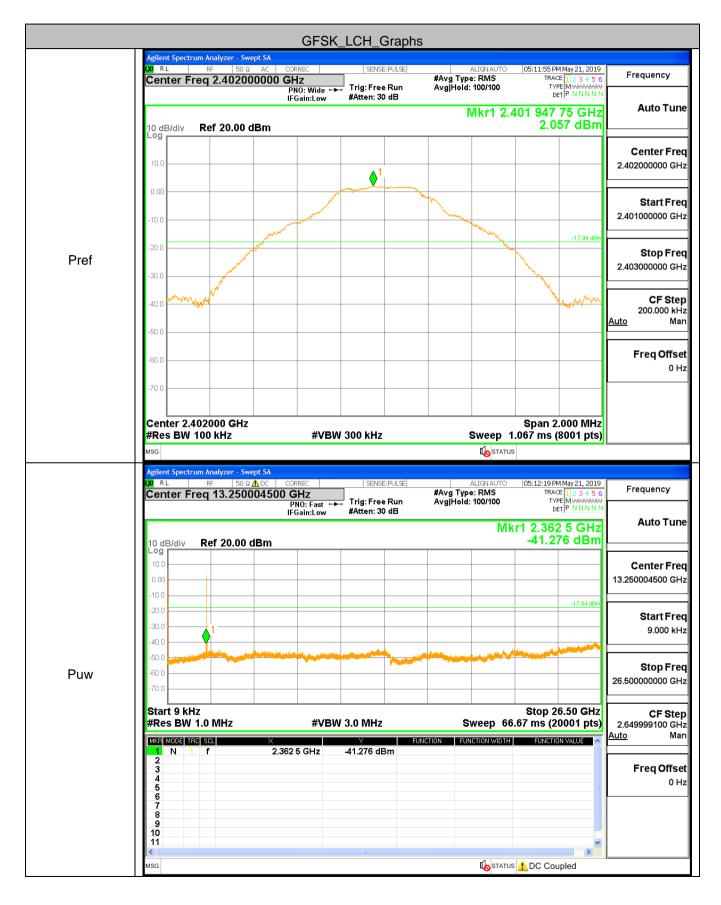


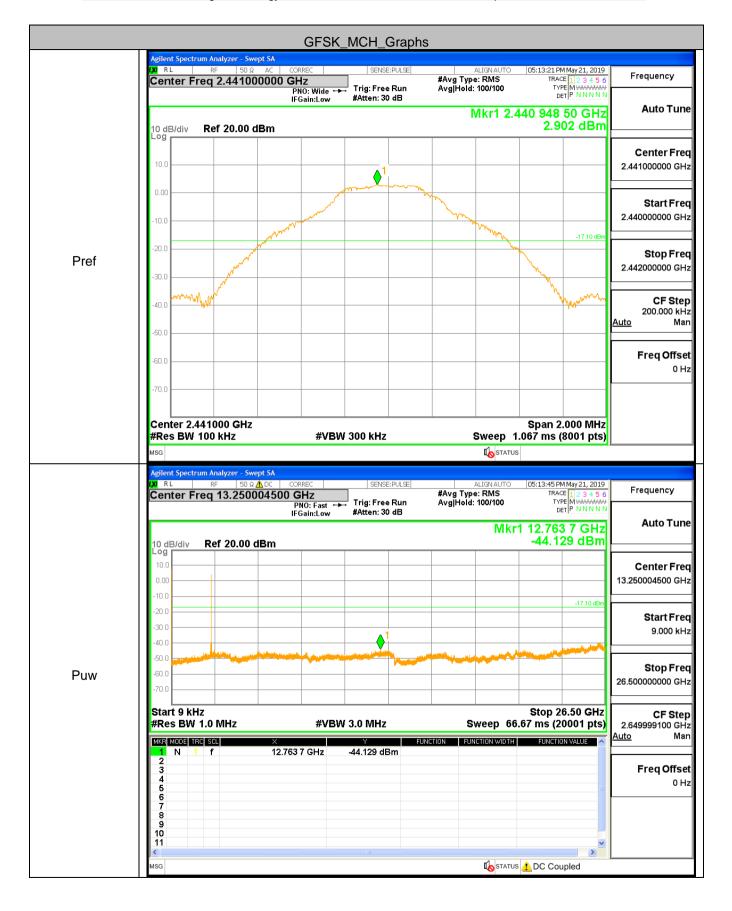


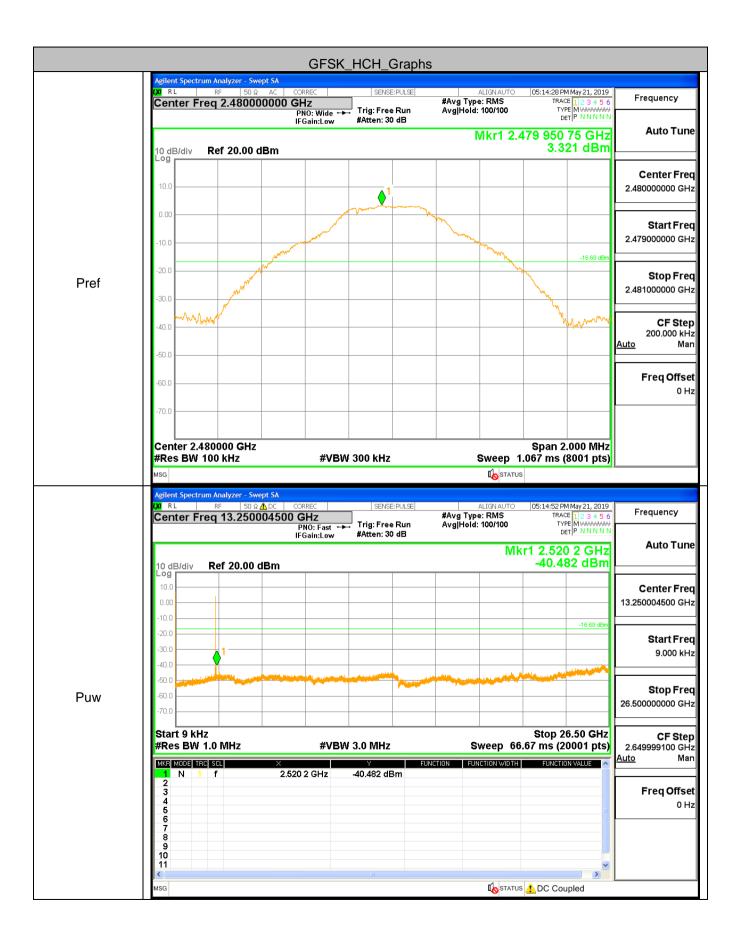


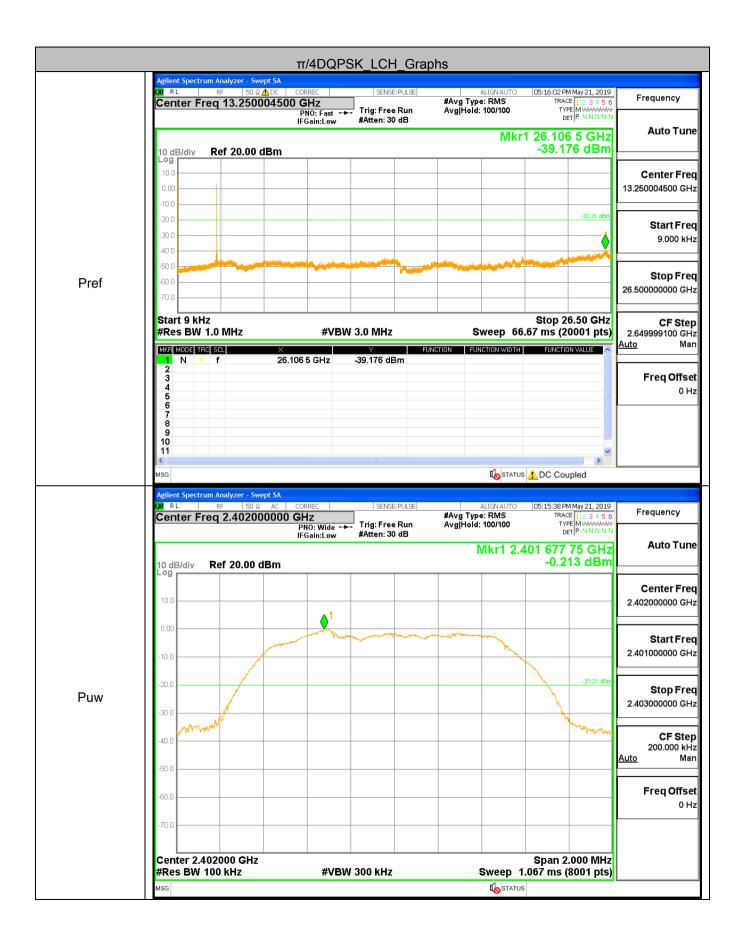


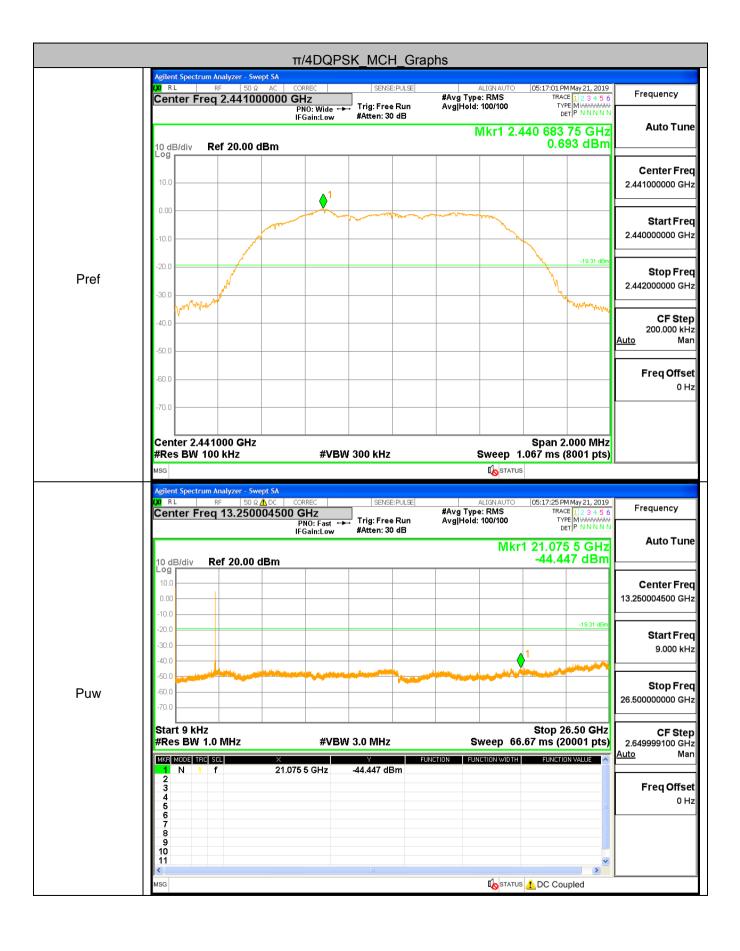
A.7 RF Conducted Spurious Emissions Test Graph

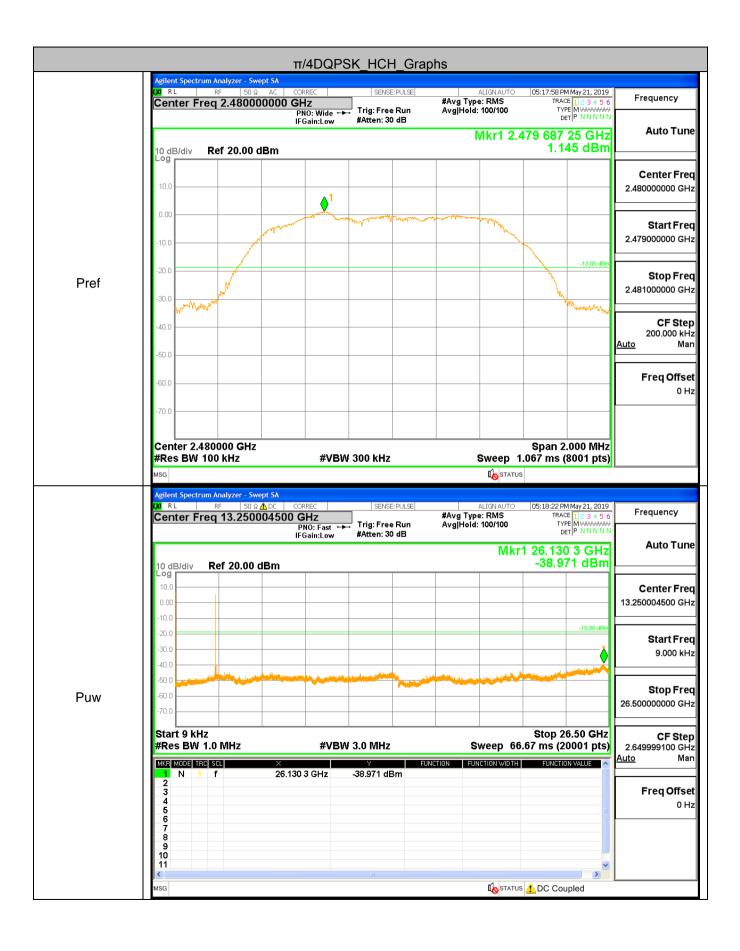


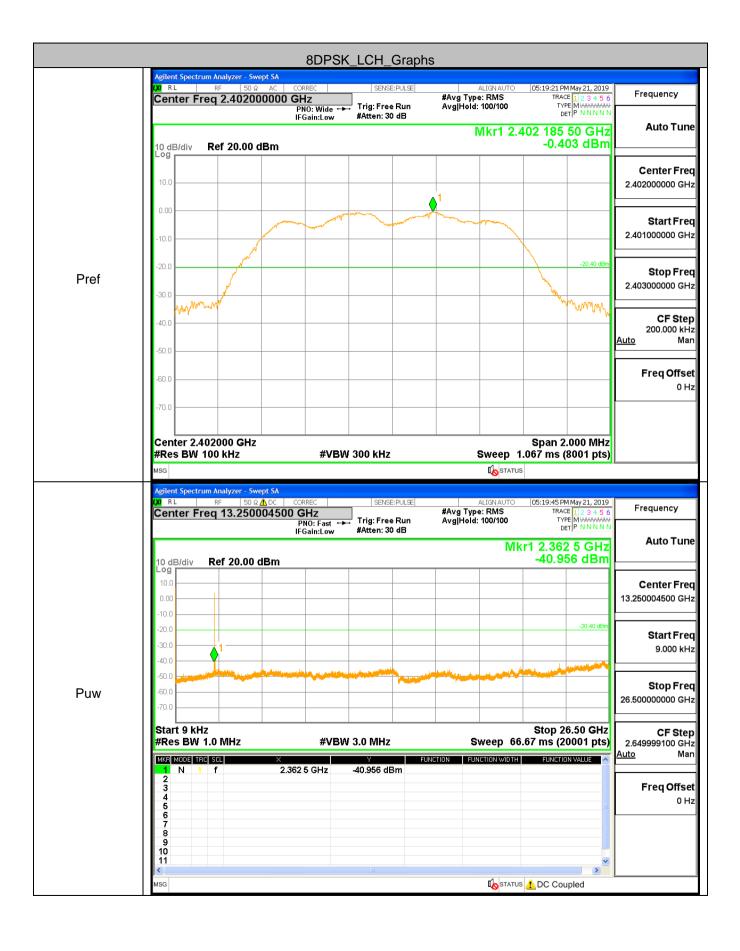


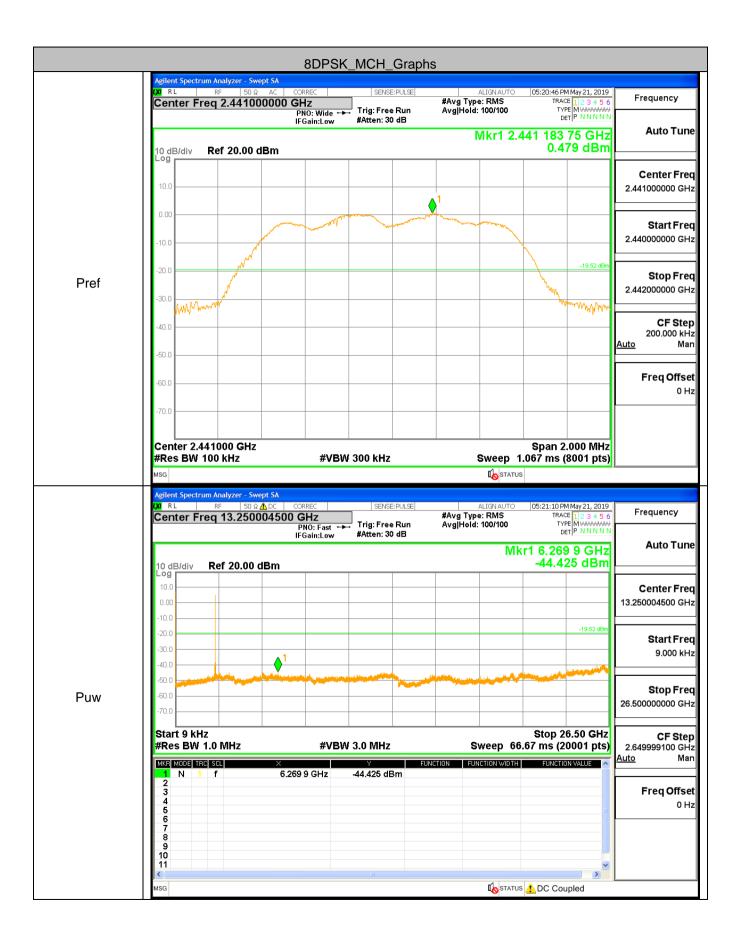














A.8 Restrict-band band-edge measurements

Туре	Carrier Frequency (MHz)	Frequency(M Hz)	Gain	Ground Factor	Peak Value(dBm)	E [dBuV/m]	Limit [dBuV/m]	Conclusion
1DH5	2402	2362.3	2.00	0.00	-40.97	56.23	74	Pass
1DH5	2480	2483.5	2.00	0.00	-49.27	47.93	74	Pass
2DH5	2402	2361.8	2.00	0.00	-41.12	56.08	74	Pass
2DH5	2480	2483.5	2.00	0.00	-49.23	47.97	74	Pass
3DH5	2402	2362.1	2.00	0.00	-41.26	55.94	74	Pass
3DH5	2480	2483.5	2.00	0.00	-49.15	48.05	74	Pass

Туре	Carrier Frequency (MHz)	Frequency(M Hz)	Gain	Ground Factor	Average Value(dBm)	E [dBuV/m]	Limit [dBuV/m]	Conclusion
1DH5	2402	2362.0	2.00	0.00	-43.95	53.25	54	Pass
1DH5	2480	2483.5	2.00	0.00	-53.90	43.30	54	Pass
2DH5	2402	2362.0	2.00	0.00	-45.31	51.89	54	Pass
2DH5	2480	2483.5	2.00	0.00	-52.55	44.65	54	Pass
3DH5	2402	2362.0	2.00	0.00	-45.31	51.89	54	Pass
3DH5	2480	2483.5	2.00	0.00	-52.38	44.82	54	Pass

