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

**Product Name: Bluetooth Earphones Trade Mark: Altec Lansing** 

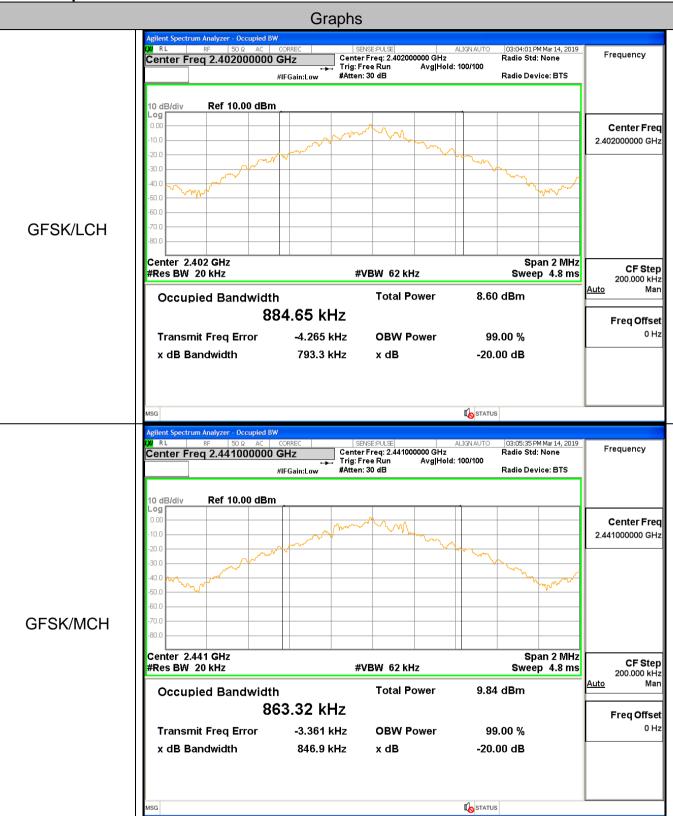
> **Test Model: MZX857** FCC ID: 2AL9B-MZX857

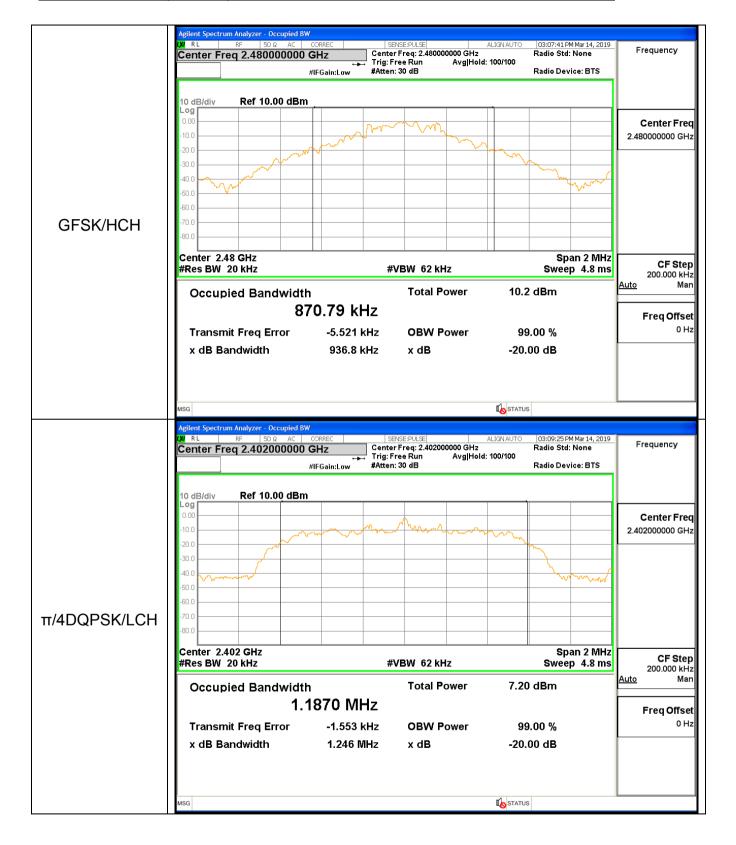
## **Environmental Conditions**

Temperature:	23.1 ° C
Relative Humidity:	50%
ATM Pressure:	100.0 kPa
Test Engineer:	Gary Qian
Supervised by:	Eden Hu

#### A.1 20 dB Bandwidth

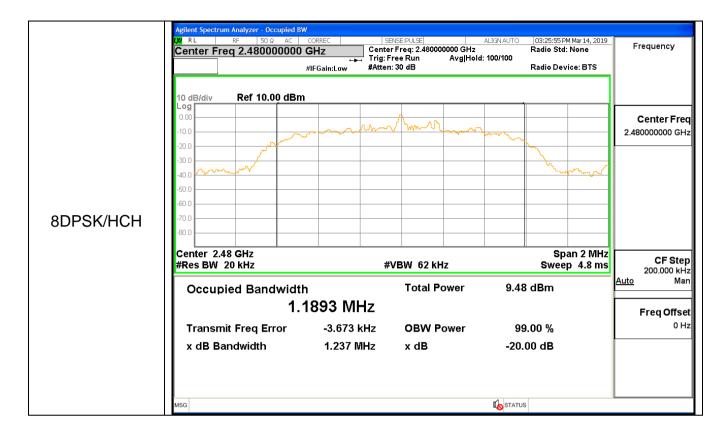
Mode	Channel.	20dB Bandwidth [MHz]	Limit(MHz)	Verdict
GFSK	LCH	0.793	Not Specified	PASS
GFSK	MCH	0.847	Not Specified	PASS
GFSK	HCH	0.937	Not Specified	PASS
π/4DQPSK	LCH	1.246	Not Specified	PASS
π/4DQPSK	MCH	1.201	Not Specified	PASS
π/4DQPSK	HCH	1.199	Not Specified	PASS
8DPSK	LCH	1.263	Not Specified	PASS
8DPSK	MCH	1.239	Not Specified	PASS
8DPSK	HCH	1.241	Not Specified	PASS





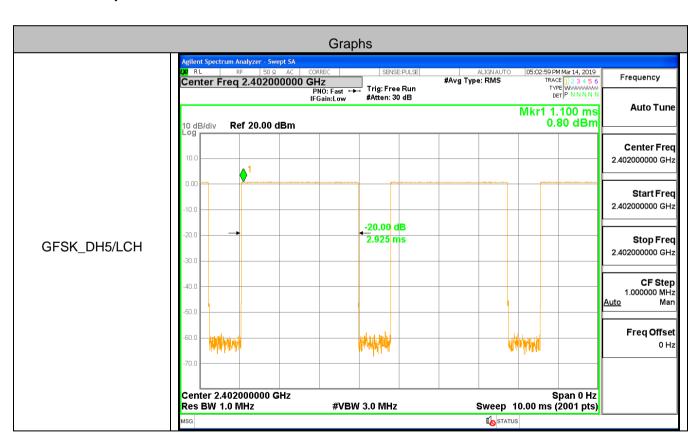


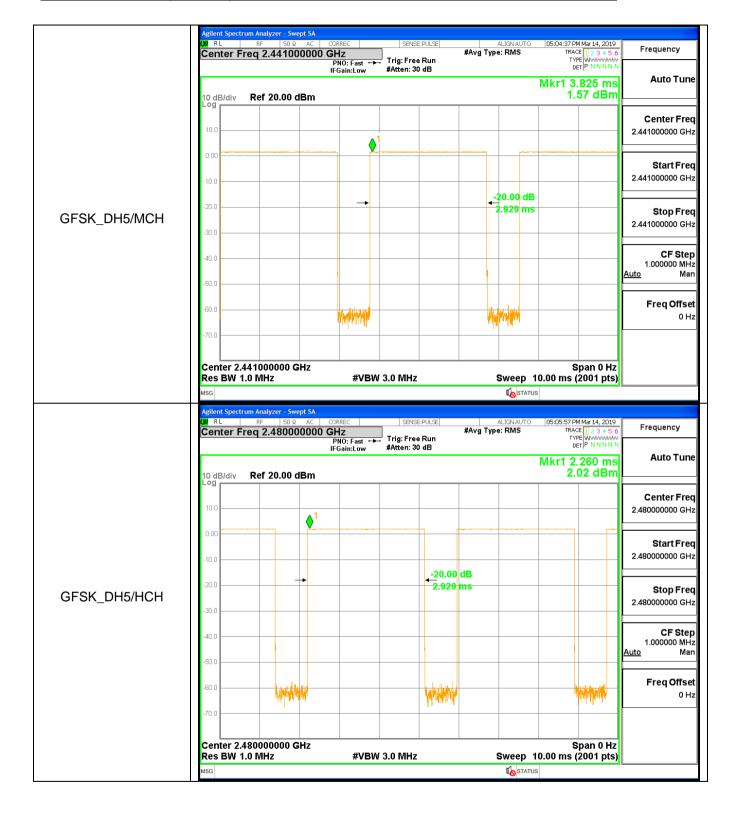


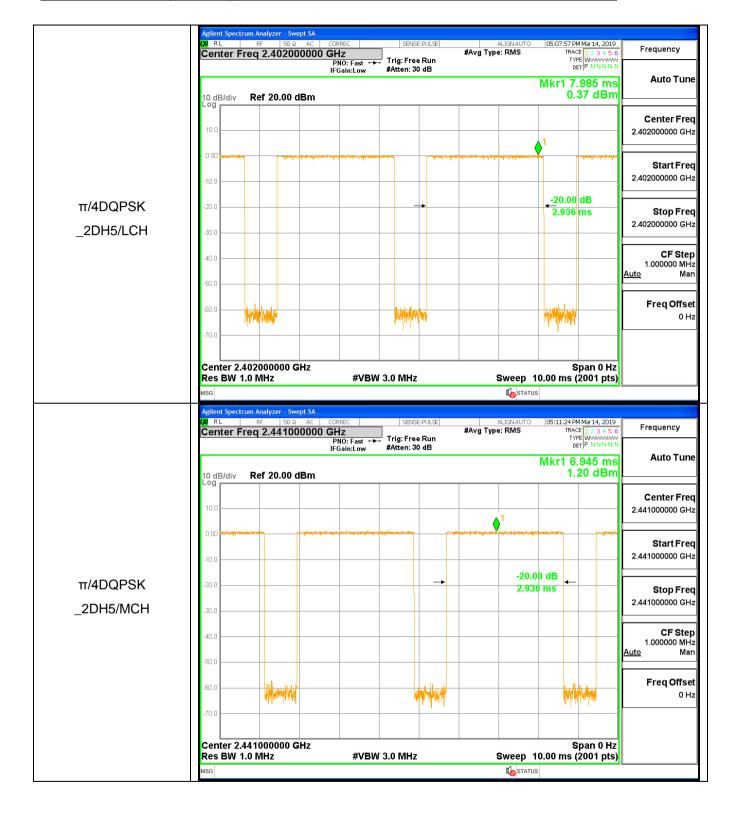


#### A.2 Dwell Time

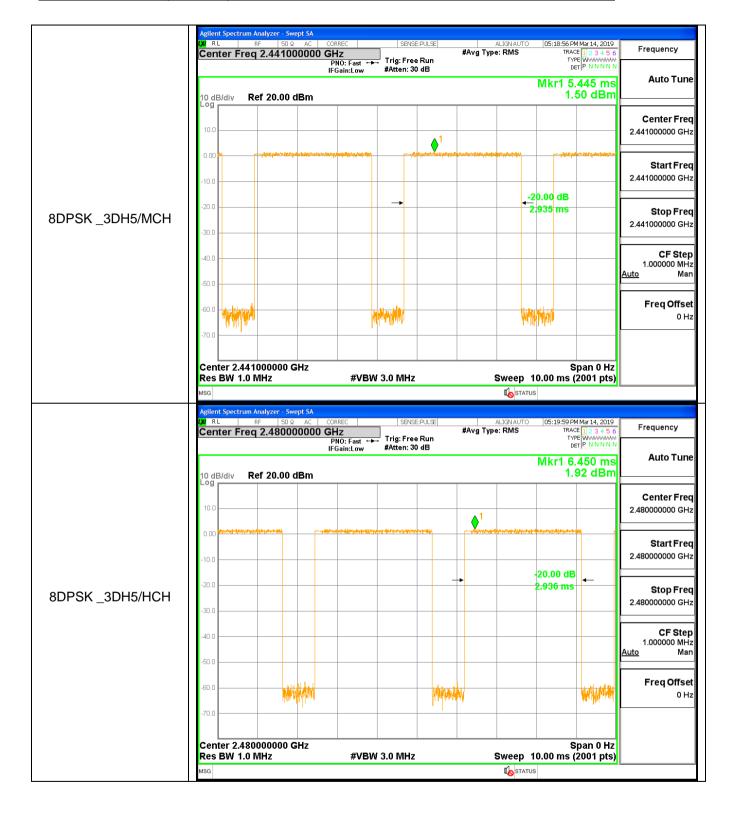
Mode	Packet	Chann el	Burst Width [s/hop/ch]	Total Hops[hop*ch]	Dwell Time[s]	Limit [s]	Verdic t
GFSK	DH5	LCH	0.002925	106.7	0.312112	0.4	PASS
GFSK	DH5	мсн	0.002929	106.7	0.312483	0.4	PASS
GFSK	DH5	HCH	HCH 0.002929 106.7 0.31249		0.31249	0.4	PASS
π/4DQPSK	2DH5	LCH	0.002936	106.7	0.313253	0.4	PASS
π/4DQPSK	2DH5	мсн	0.002936	106.7	0.313237	0.4	PASS
π/4DQPSK	2DH5	нсн	0.002936	106.7	0.313303	0.4	PASS
8DPSK	3DH5	LCH	0.002938	106.7	0.313441	0.4	PASS
8DPSK	3DH5	мсн	0.002935	106.7	0.313167	0.4	PASS
8DPSK	3DH5	НСН	0.002936	106.7	0.313324	0.4	PASS





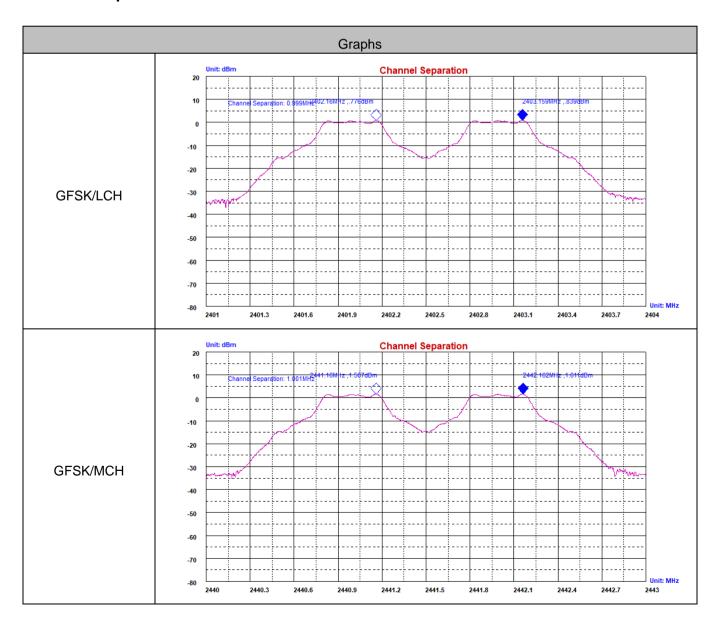


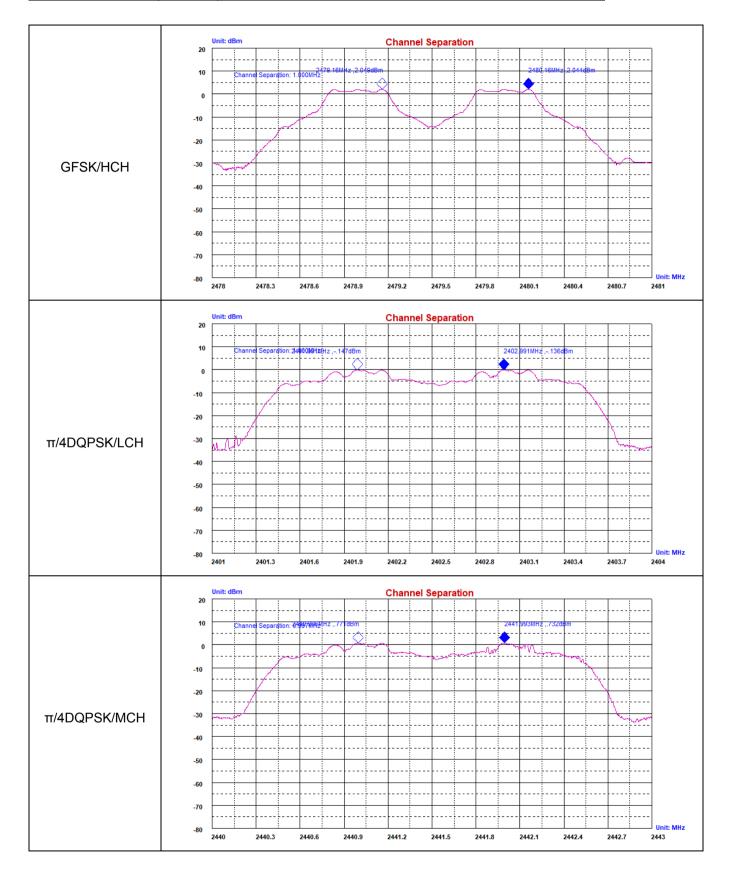


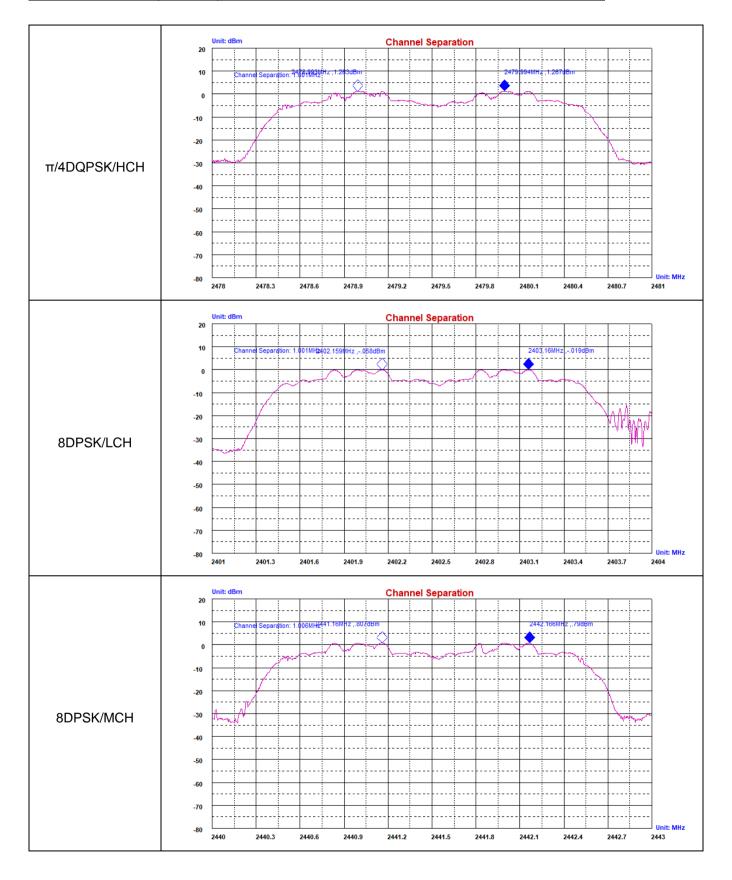


## **A.3 Carrier Frequency Separation**

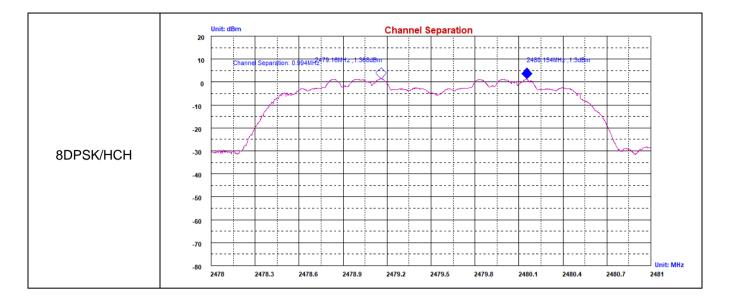
Mode	Channel.	Carrier Frequency Separation [MHz]	Limit [MHz]	Verdict
GFSK	LCH	0.999	0.529	PASS
GFSK	MCH	1.001	0.565	PASS
GFSK	HCH	1.000	0.625	PASS
π/4DQPSK	LCH	1.000	0.831	PASS
π/4DQPSK	MCH	0.997	0.801	PASS
π/4DQPSK	HCH	1.001	0.799	PASS
8DPSK	LCH	1.001	0.842	PASS
8DPSK	MCH	1.006	0.826	PASS
8DPSK	HCH	0.994	0.827	PASS







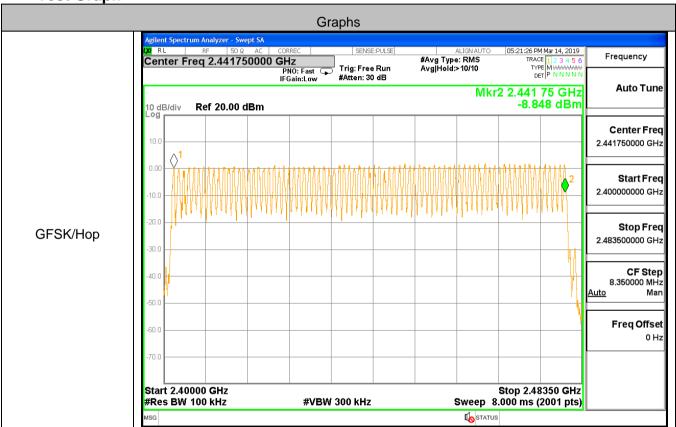
#### Shenzhen HUAK Testing Technology Co., Ltd. FCC ID: 2AL9B-MZX857 Report No.: HK1903110425-E



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

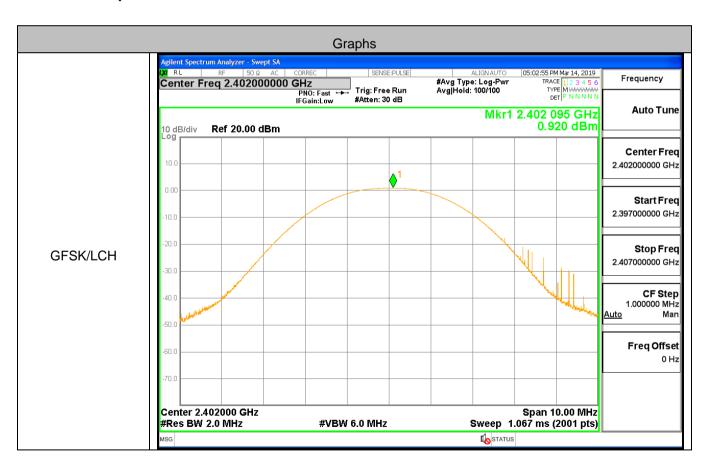


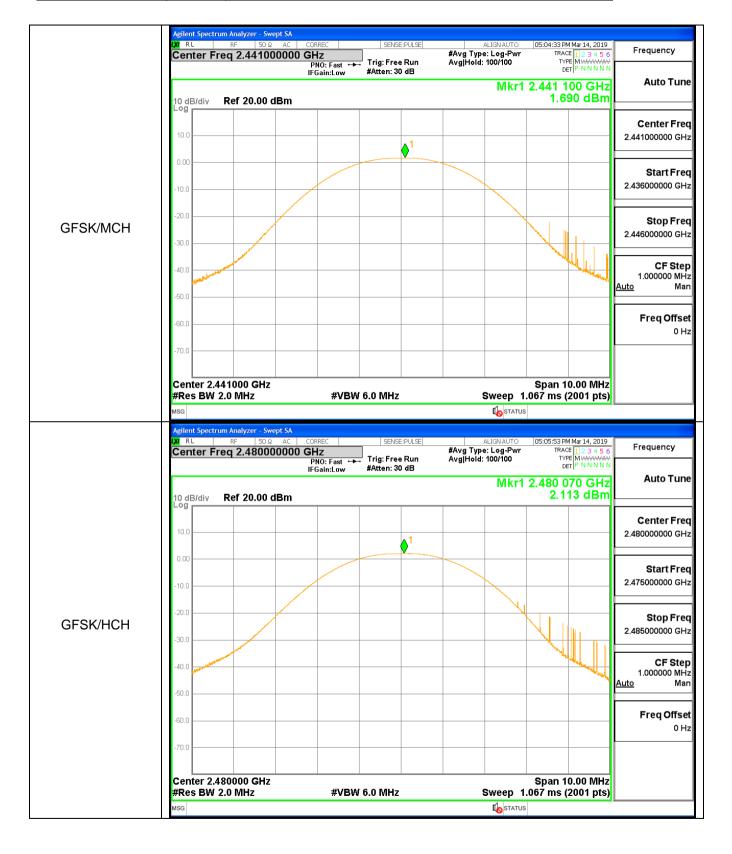


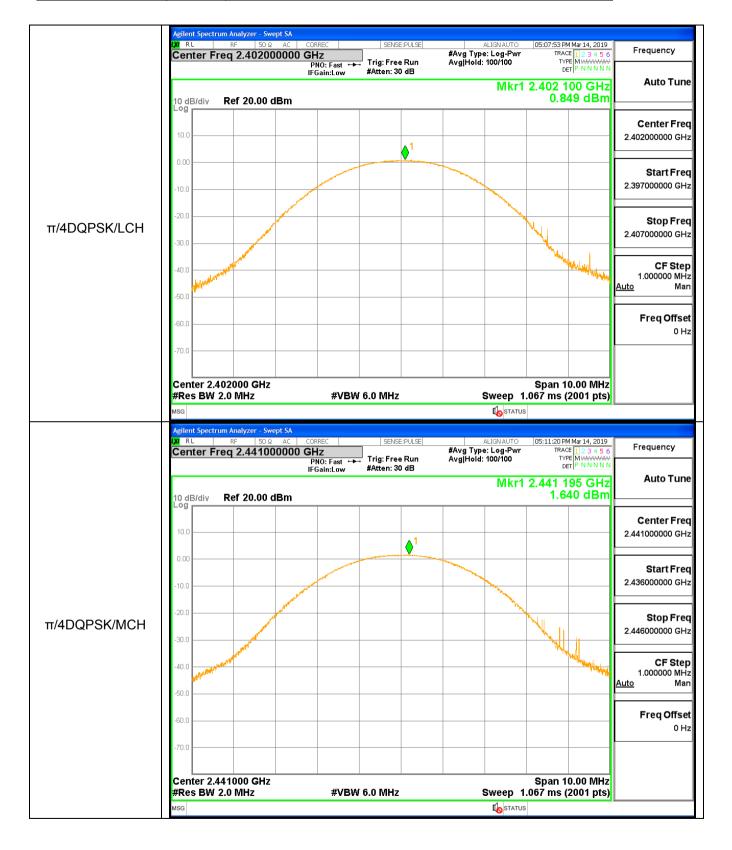


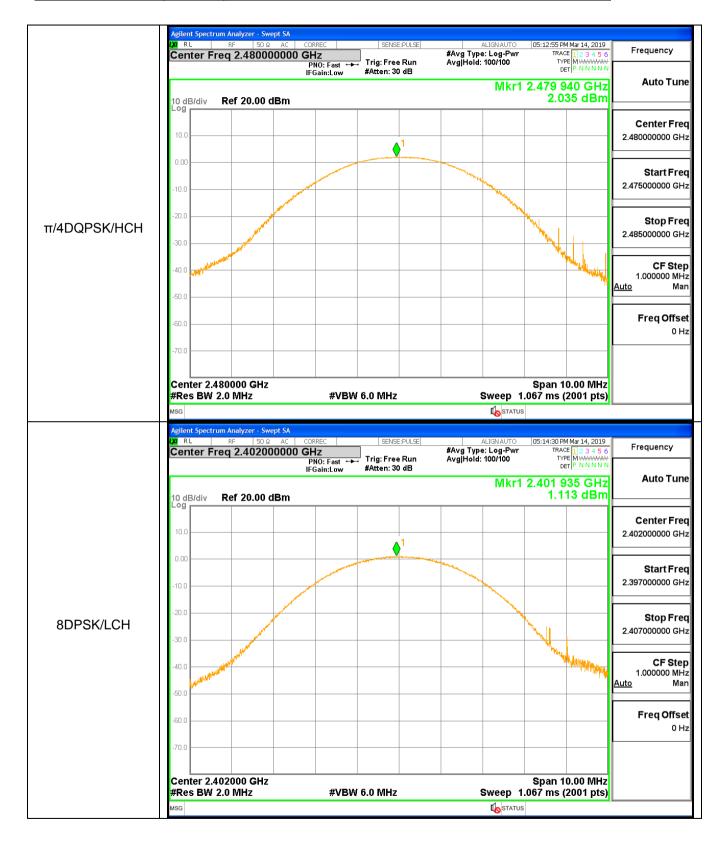
A.5 Conducted Peak Output Power

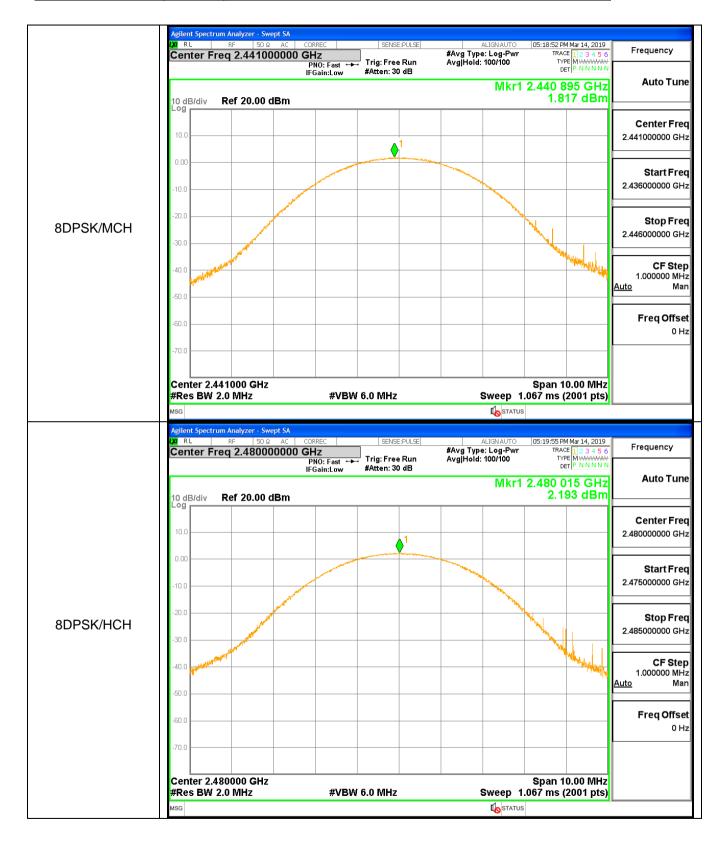
Mode	Channel.	Maximum Peak Output Power [dBm]	Limit [dBm]	Verdict
GFSK	LCH	0.920	21	PASS
GFSK	MCH	1.690	21	PASS
GFSK	HCH	2.113	21	PASS
π/4DQPSK	LCH	0.849	21	PASS
π/4DQPSK	MCH	1.640	21	PASS
π/4DQPSK	HCH	2.035	21	PASS
8DPSK	LCH	1.113	21	PASS
8DPSK	MCH	1.817	21	PASS
8DPSK	НСН	2.193	21	PASS





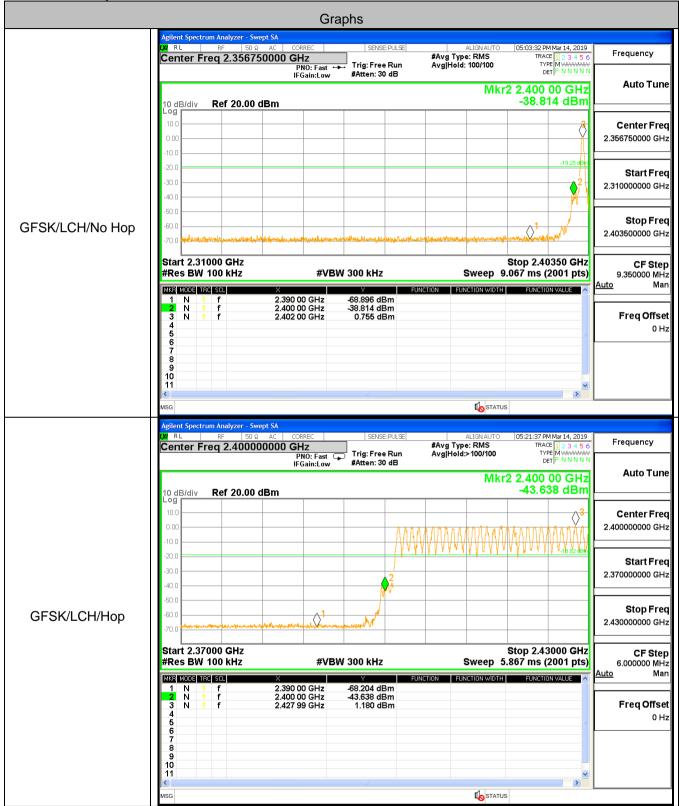


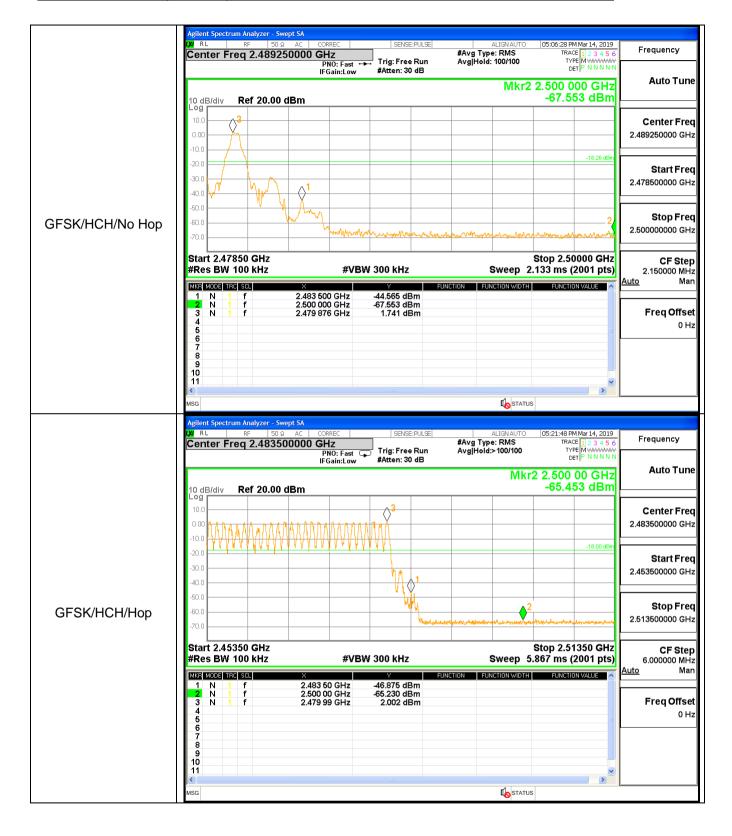


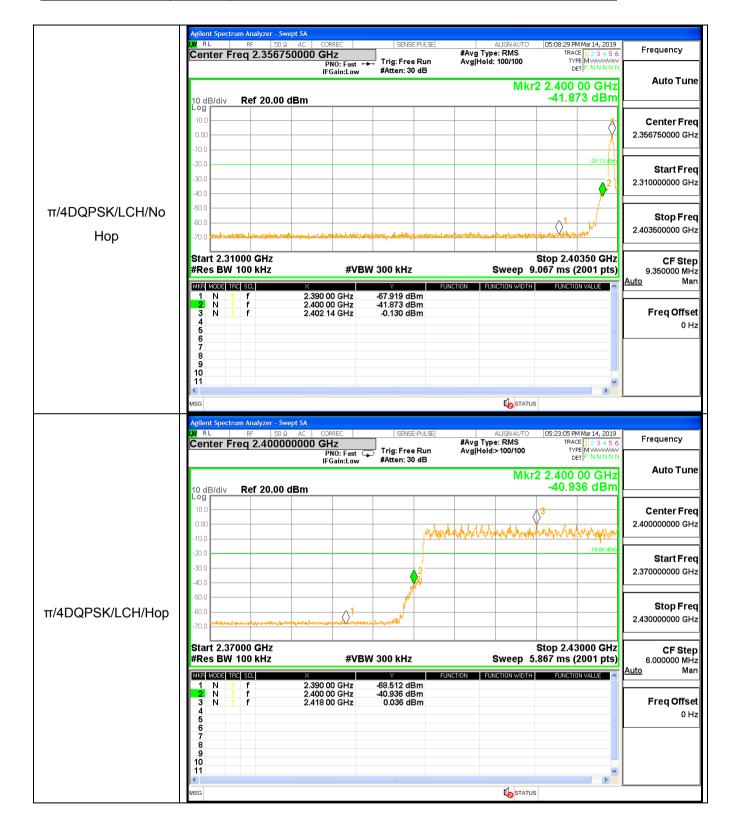


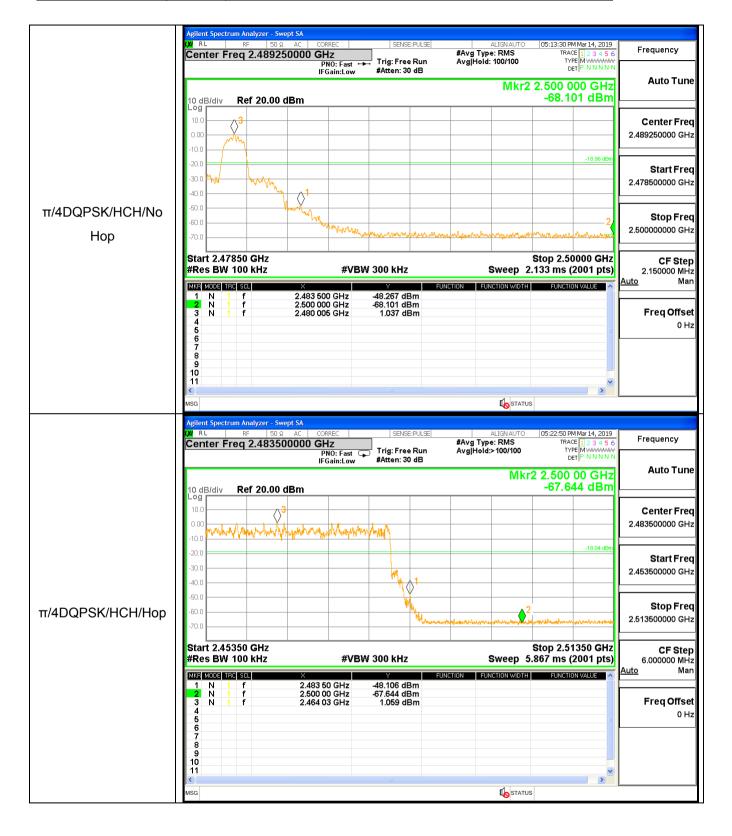
A.6 Band-edge for RF Conducted Emissions

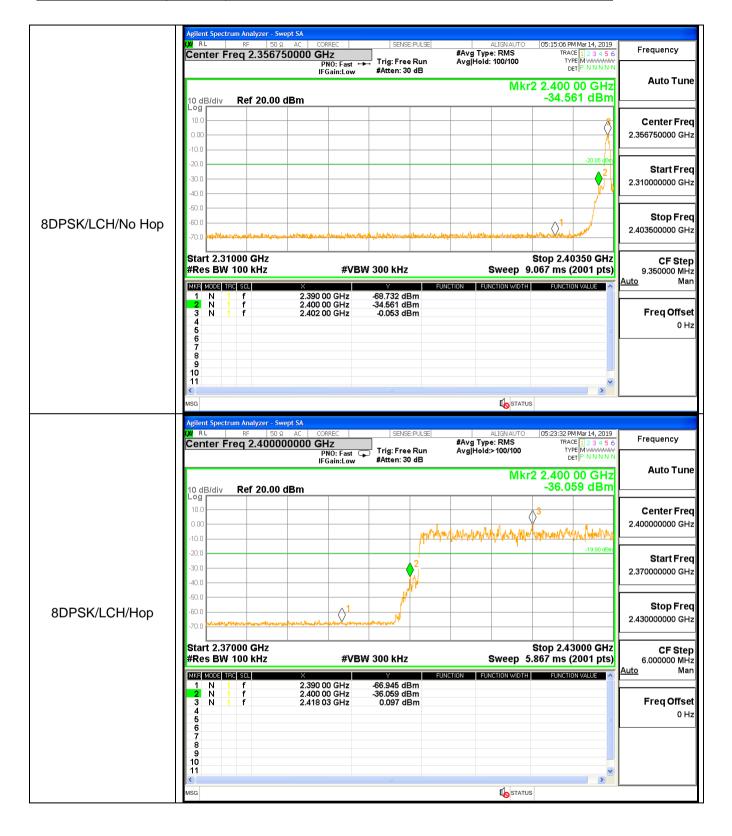
A.o Band-edge for KF Conducted Emissions								
Туре	Carrier Frequency(MHz)	Frequency(MHz)	Carrier Frequency Power [dBm]	Bandedge Peak(dBm)	Upper limit(dBm)	Conclusion		
1DH5	2402	2390	0.75	-68.90	-19.25	Pass		
1DH5	2402	2400	0.75	-38.81	-19.25	Pass		
1DH5-Hopping	2402	2390	1.18	-68.20	-18.82	Pass		
1DH5-Hopping	2402	2400	1.18	-43.64	-18.82	Pass		
1DH5	2480	2483.5	1.74	-44.56	-18.26	Pass		
1DH5	2480	2500	1.74	-67.55	-18.26	Pass		
1DH5-Hopping	2480	2483.5	2.00	-46.88	-18.00	Pass		
1DH5-Hopping	2480	2500	2.00	-65.45	-18.00	Pass		
2DH5	2402	2390	-0.13	-67.92	-20.13	Pass		
2DH5	2402	2400	-0.13	-41.87	-20.13	Pass		
2DH5-Hopping	2402	2390	1.06	-48.11	-18.94	Pass		
2DH5-Hopping	2402	2400	1.06	-67.64	-18.94	Pass		
2DH5	2480	2483.5	1.04	-48.27	-18.96	Pass		
2DH5	2480	2500	1.04	-68.10	-18.96	Pass		
2DH5-Hopping	2480	2483.5	0.04	-68.51	-19.96	Pass		
2DH5-Hopping	2480	2500	0.04	-40.94	-19.96	Pass		
3DH5	2402	2390	-0.05	-68.73	-20.05	Pass		
3DH5	2402	2400	-0.05	-34.56	-20.05	Pass		
3DH5-Hopping	2402	2390	0.10	-66.94	-19.90	Pass		
3DH5-Hopping	2402	2400	0.10	-36.06	-19.90	Pass		
3DH5	2480	2483.5	1.16	-45.89	-18.84	Pass		
3DH5	2480	2500	1.16	-69.92	-18.84	Pass		
3DH5-Hopping	2480	2483.5	1.10	-55.84	-18.90	Pass		
3DH5-Hopping	2480	2500	1.10	-66.84	-18.90	Pass		

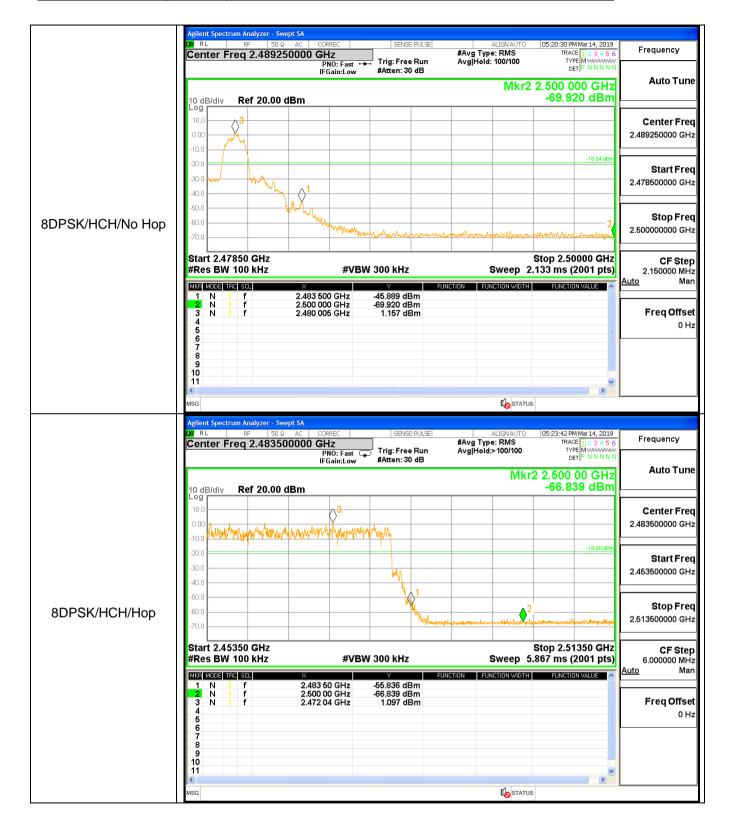




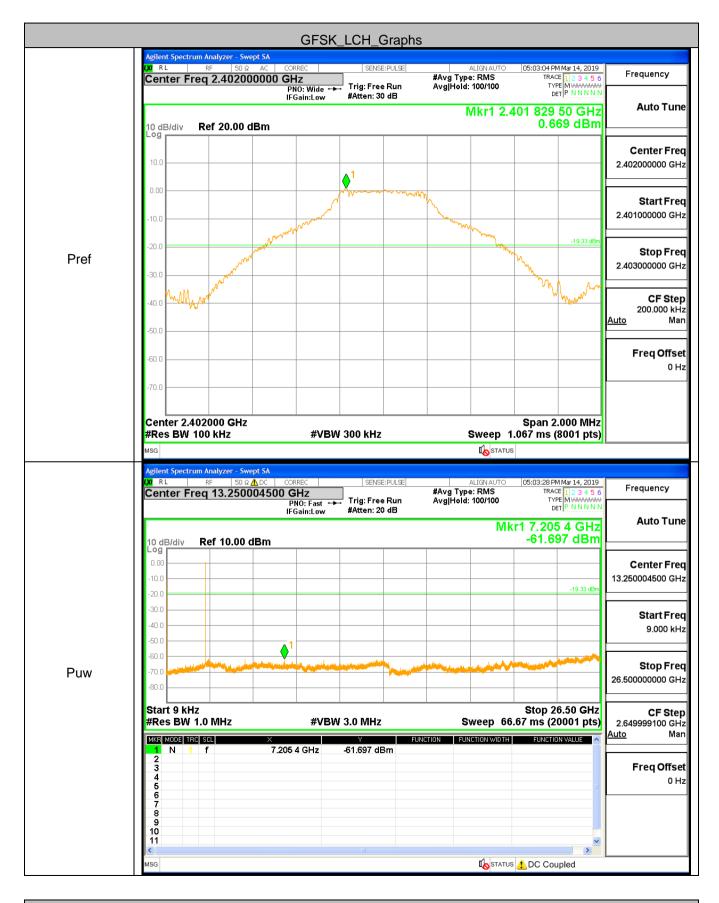




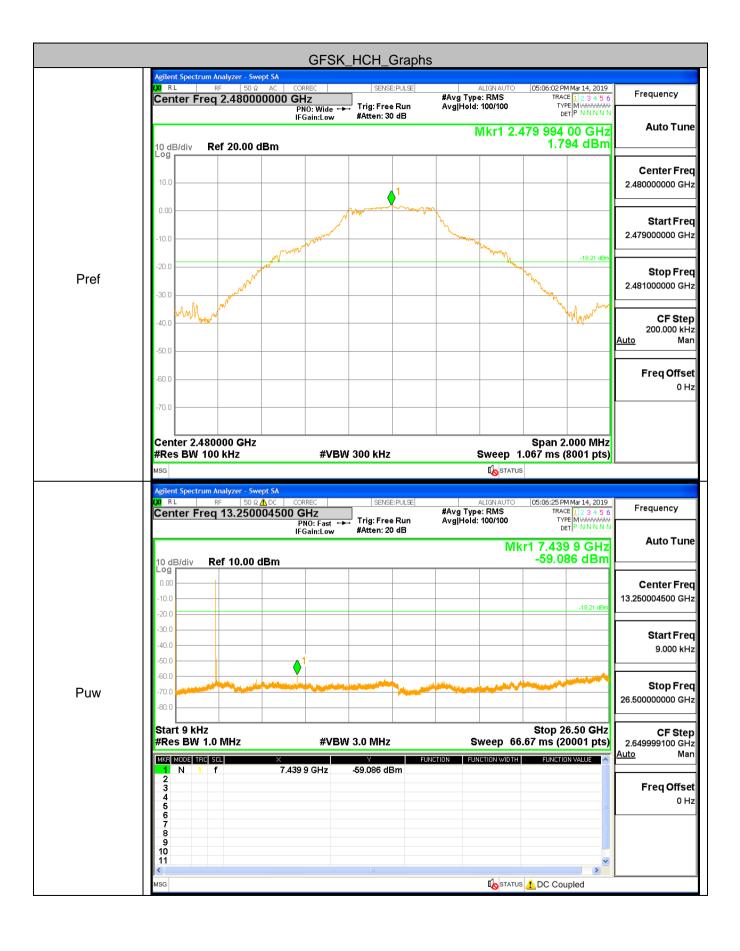


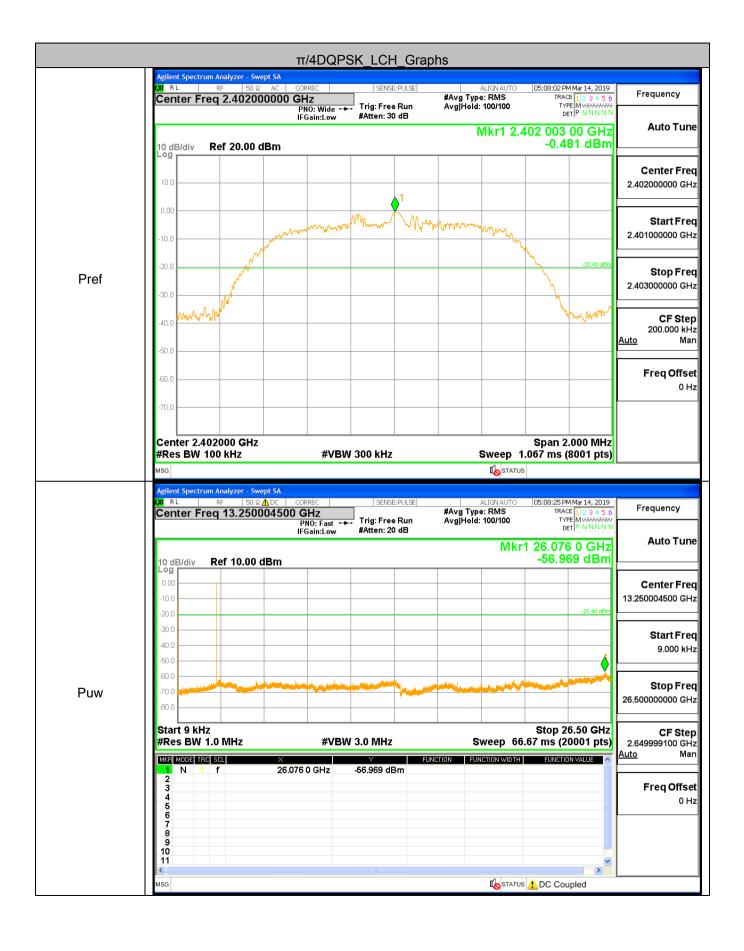


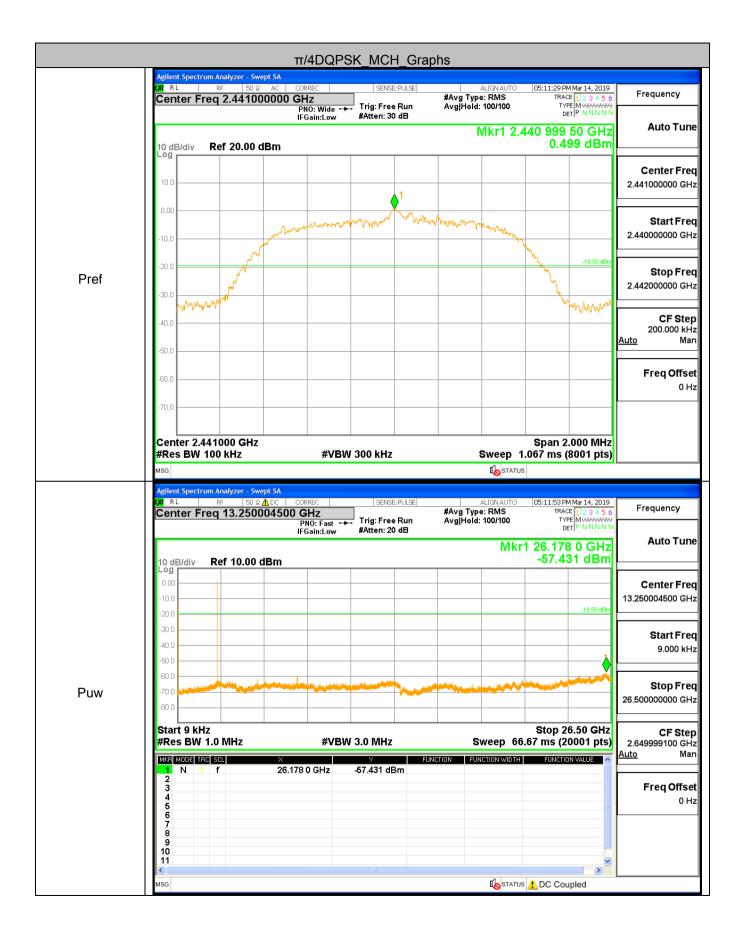
# A.7 RF Conducted Spurious Emissions Test Graph



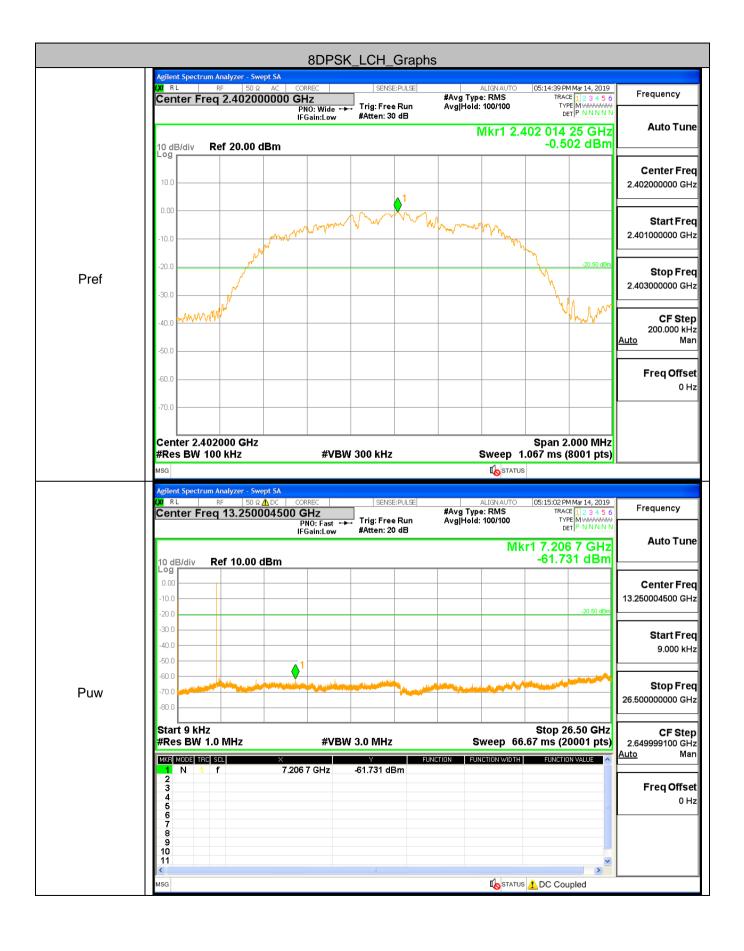
















A.8 Restrict-band band-edge measurements

Туре	Carrier Frequenc y (MHz)	Frequency(MH z)	Gain	Ground Factor	Peak Value(dBm)	E [dBuV/m]	Limit [dBuV/m]	Average Value(dBm )	E [dBuV/m]	Limit [dBuV/m ]	Conclusi on
1DH5	2402	2310	2.00	0.00	-59.60	37.6	74	-66.81	30.39	54	Pass
1DH5	2402	2390	2.00	0.00	-58.34	38.86	74	-66.08	31.12	54	Pass
1DH5	2480	2483.5	2.00	0.00	-41.97	55.23	74	-45.97	51.23	54	Pass
1DH5	2480	2500	2.00	0.00	-58.78	38.42	74	-65.8	31.40	54	Pass
2DH5	2402	2310	2.00	0.00	-58.13	39.07	74	-66.82	30.38	54	Pass
2DH5	2402	2390	2.00	0.00	-59.39	37.81	74	-66.26	30.94	54	Pass
2DH5	2480	2483.5	2.00	0.00	-41.48	55.72	74	-46.7	50.50	54	Pass
2DH5	2480	2500	2.00	0.00	-59.39	37.81	74	-65.81	31.39	54	Pass
3DH5	2402	2310	2.00	0.00	-58.36	38.84	74	-66.81	30.39	54	Pass
3DH5	2402	2390	2.00	0.00	-59.89	37.31	74	-66.23	30.97	54	Pass
3DH5	2480	2483.5	2.00	0.00	-40.11	57.09	74	-46.65	50.55	54	Pass
3DH5	2480	2500	2.00	0.00	-59.24	37.96	74	-65.83	31.37	54	Pass



