# Appendix A

# RF Test Data for BT V3.0 (BDR/EDR) (Conducted Measurement) **Product Name: BLUETOOTH SPEAKER**

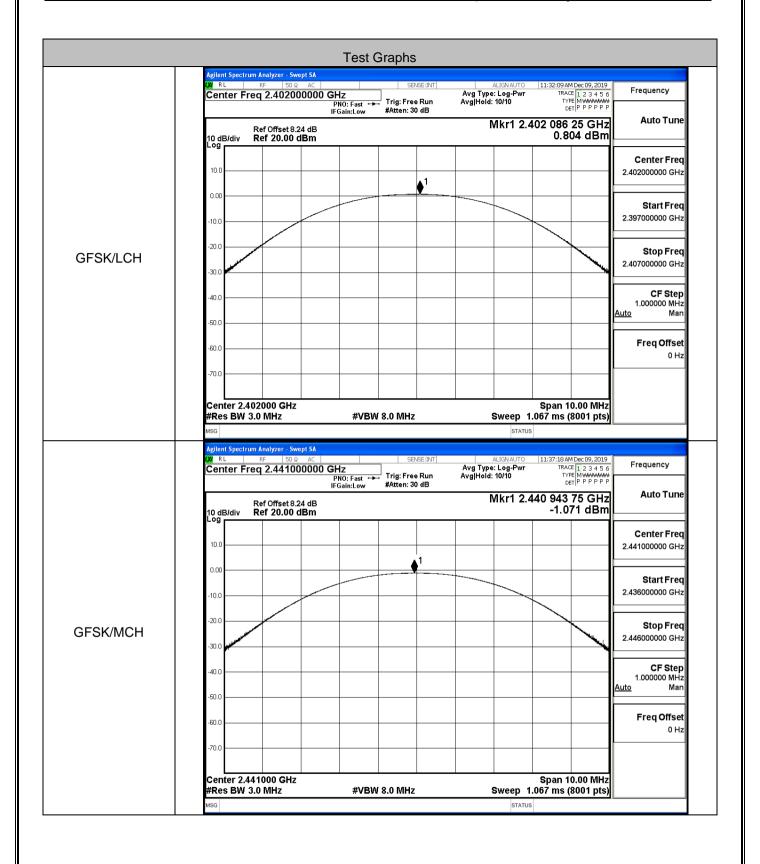
Trade Mark: N/A **Test Model: B06** 

## **Environmental Conditions**

Temperature:	23.5 ° C
Relative Humidity:	53.1%
ATM Pressure:	100.0 kPa
Test Engineer:	Alisa Huang
Supervised by:	Wang.Chuang

## **A.1 Maxmum Conducted Peak Output Power**

Mode	Channel.	Maximum Peak Output Power [dBm]	Limit [dBm]	Verdict
	LCH	0.804	21	PASS
GFSK	MCH	-1.071	21	PASS
	нсн	0.131	21	PASS
	LCH	0.082	21	PASS
π/4DQPSK	MCH	-1.698	21	PASS
	НСН	-0.607	21	PASS
	LCH	0.195	21	PASS
8DPSK	MCH	-1.505	21	PASS
	НСН	-0.415	21	PASS

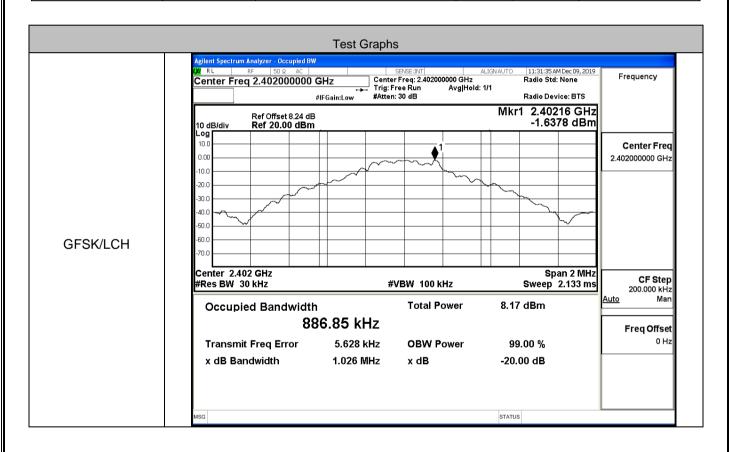


**#VBW 8.0 MHz** 

STATUS

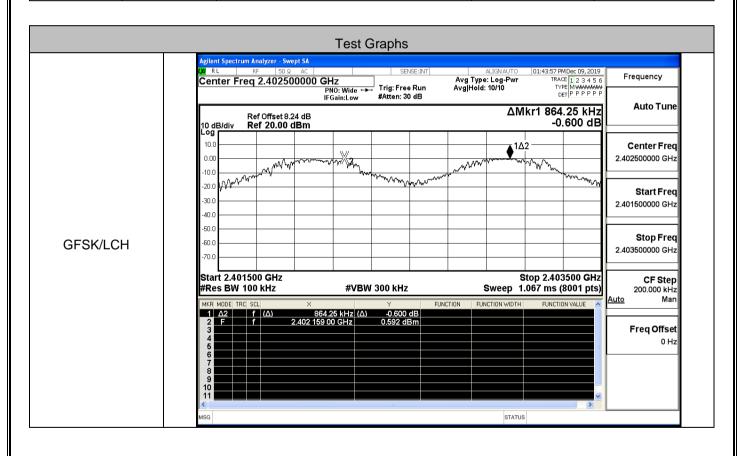
## A.2 20dB Bandwidth

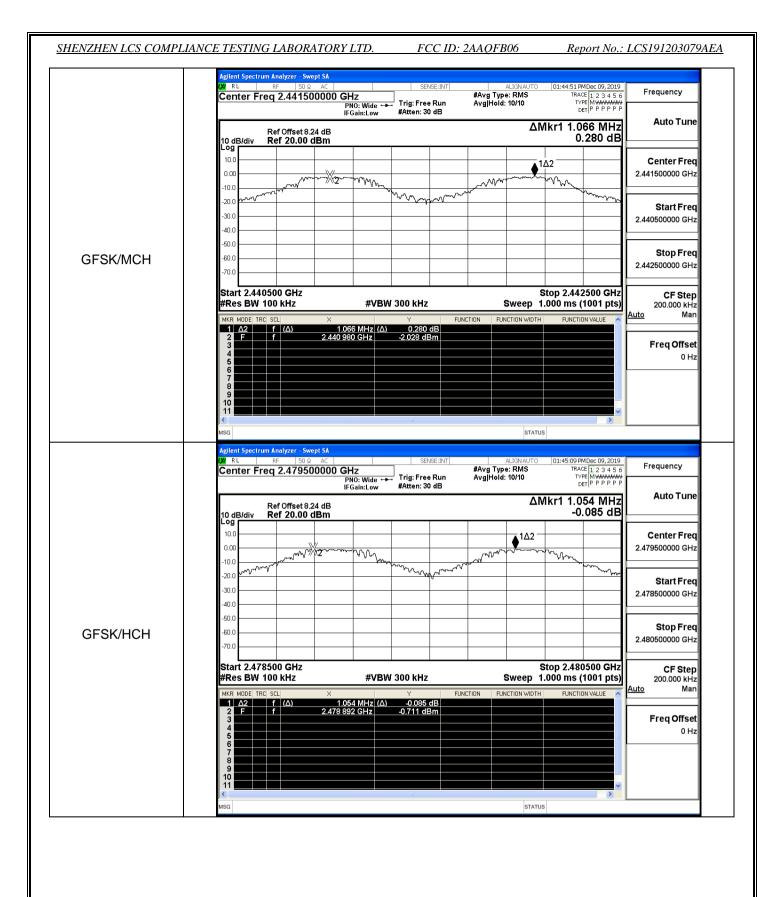
Mode	Channel.	20dB Bandwidth [MHz]	Limit [MHz]	Verdict
	LCH	1.026	Not Specified	PASS
GFSK	MCH	0.9652	Not Specified	PASS
	HCH	1.026	Not Specified	PASS
	LCH	1.290	Not Specified	PASS
π/4DQPSK	MCH	1.292	Not Specified	PASS
	НСН	1.291	Not Specified	PASS
	LCH	1.292	Not Specified	PASS
8DPSK	MCH	1.297	Not Specified	PASS
	НСН	1.295	Not Specified	PASS

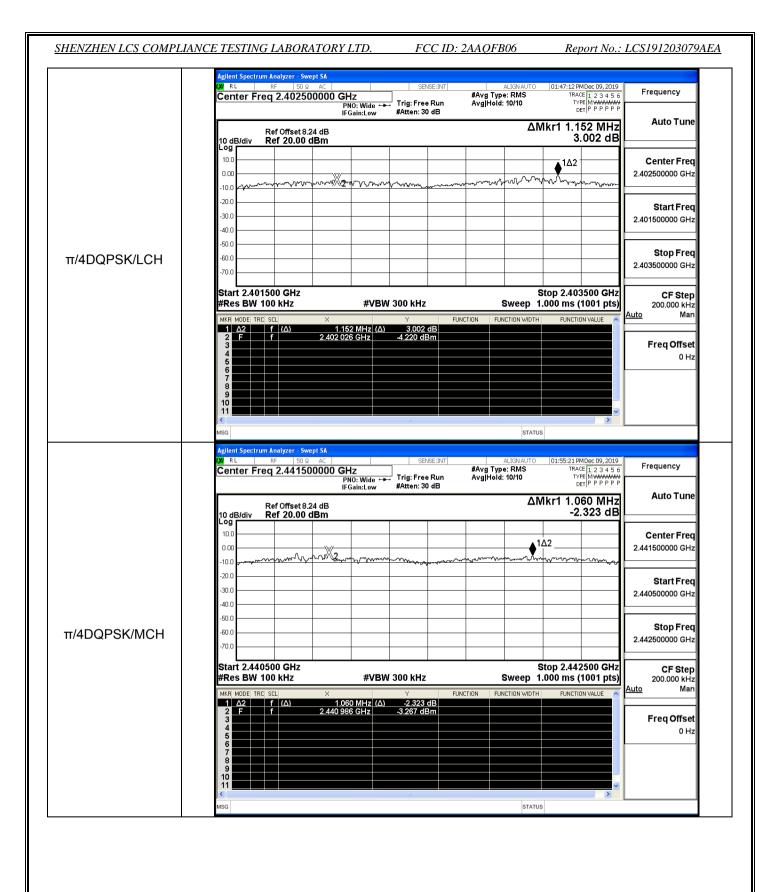


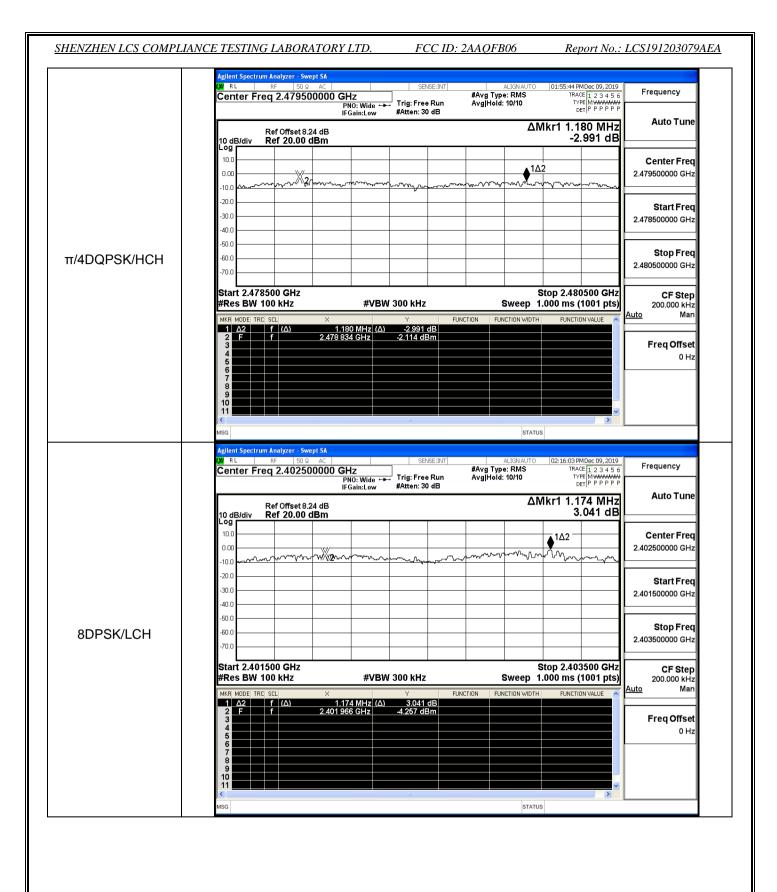
## **A.3 Carrier Frequency Separation**

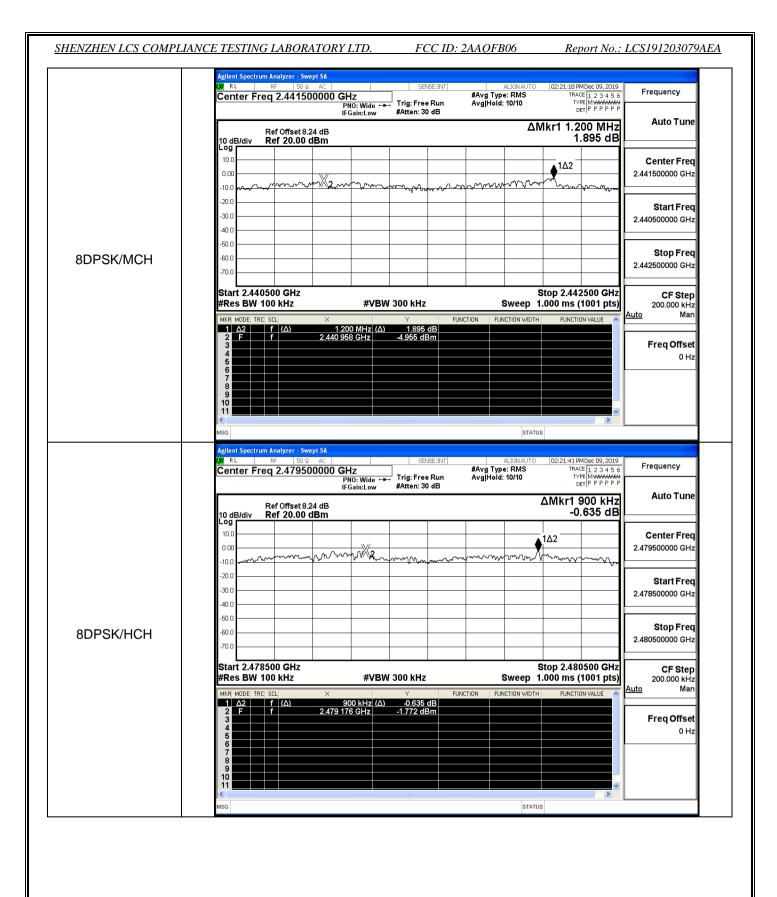
Mode	Channel.	Carrier Frequency Separation [MHz]	Limit [MHz]	Verdict
	LCH	0.864	0.684	PASS
GFSK	MCH	1.066	0.684	PASS
	HCH	1.054	0.684	PASS
	LCH	1.152	0.861	PASS
π/4DQPSK	MCH	1.060	0.861	PASS
	HCH	1.180	0.861	PASS
	LCH	1.174	0.865	PASS
8DPSK	MCH	1.200	0.865	PASS
	HCH	0.900	0.865	PASS







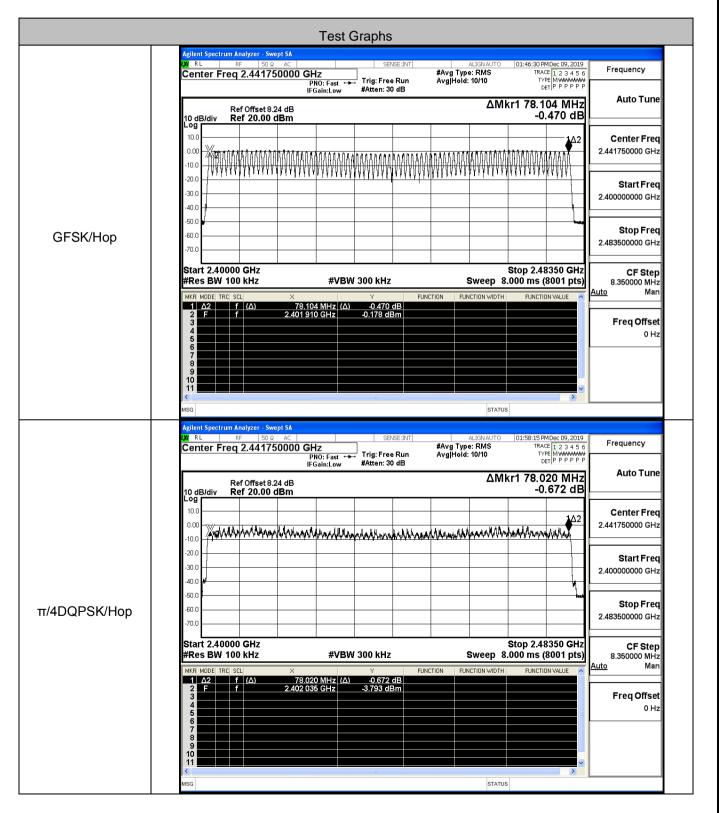




## A.4 Hopping Channel Number

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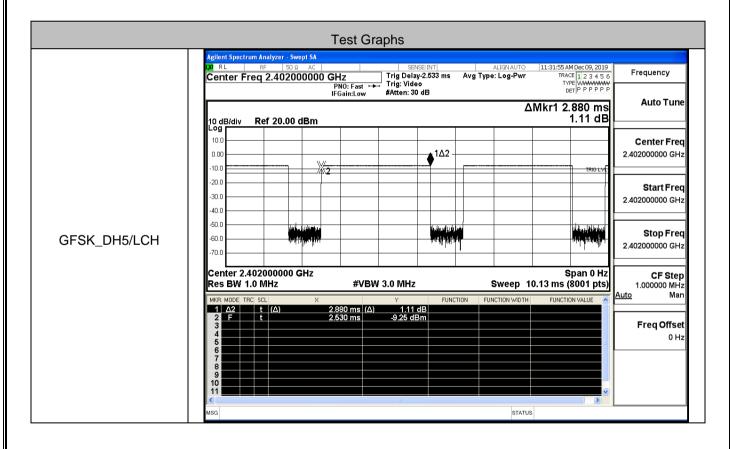
Mode	Channel.	Number of Hopping Channel [N]	Limit [N]	Verdict
GFSK	Нор	79	>=15	PASS
π/4DQPSK	Нор	79	>=15	PASS
8DPSK	Нор	79	>=15	PASS

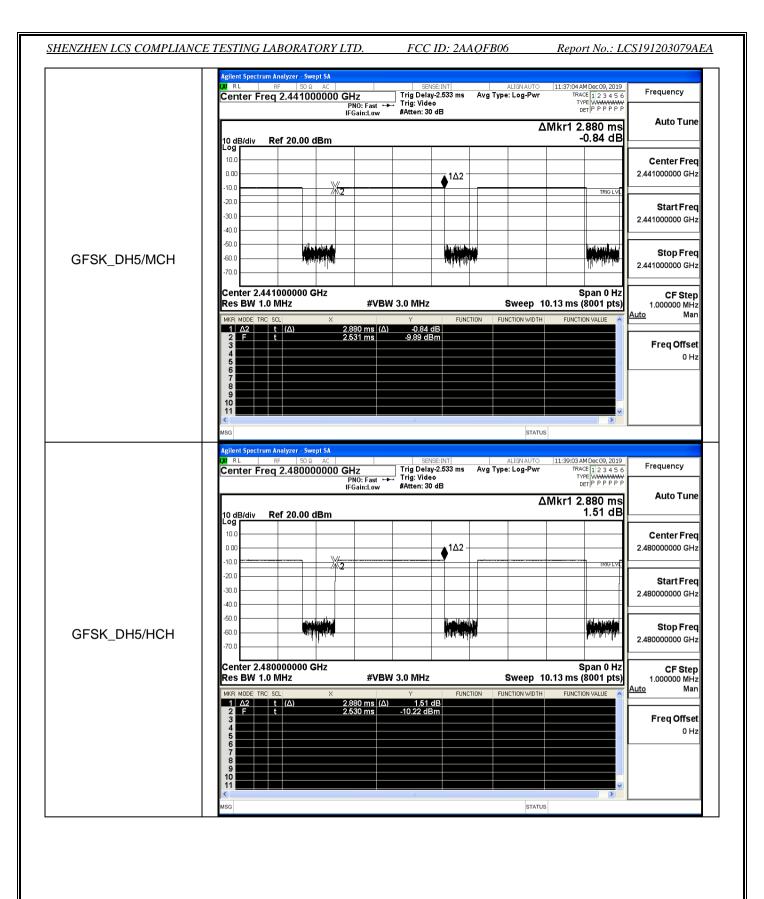


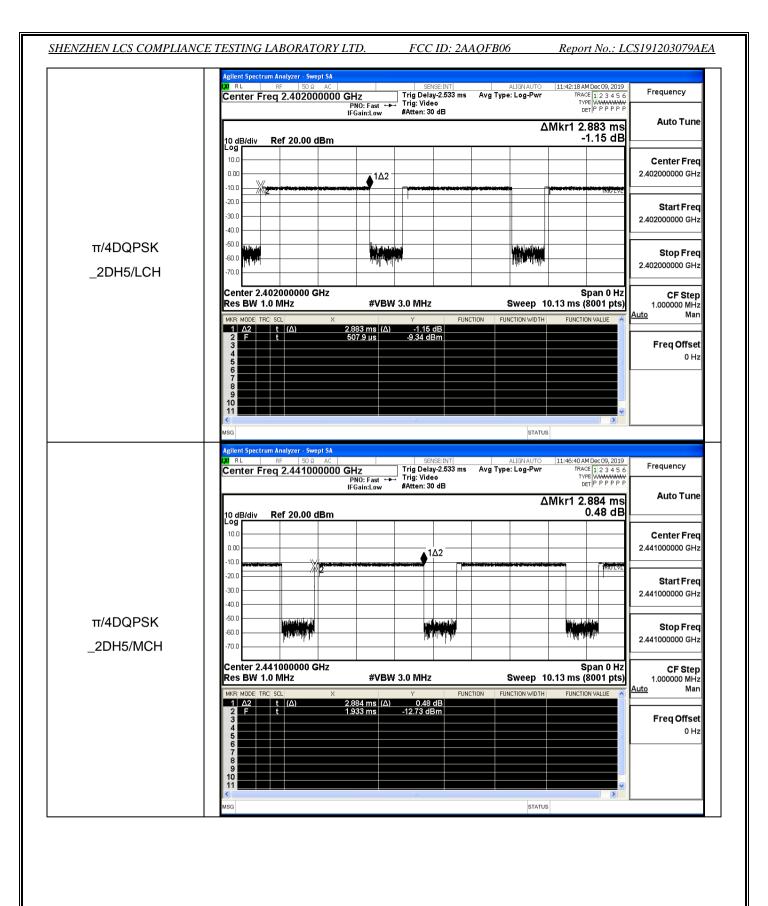
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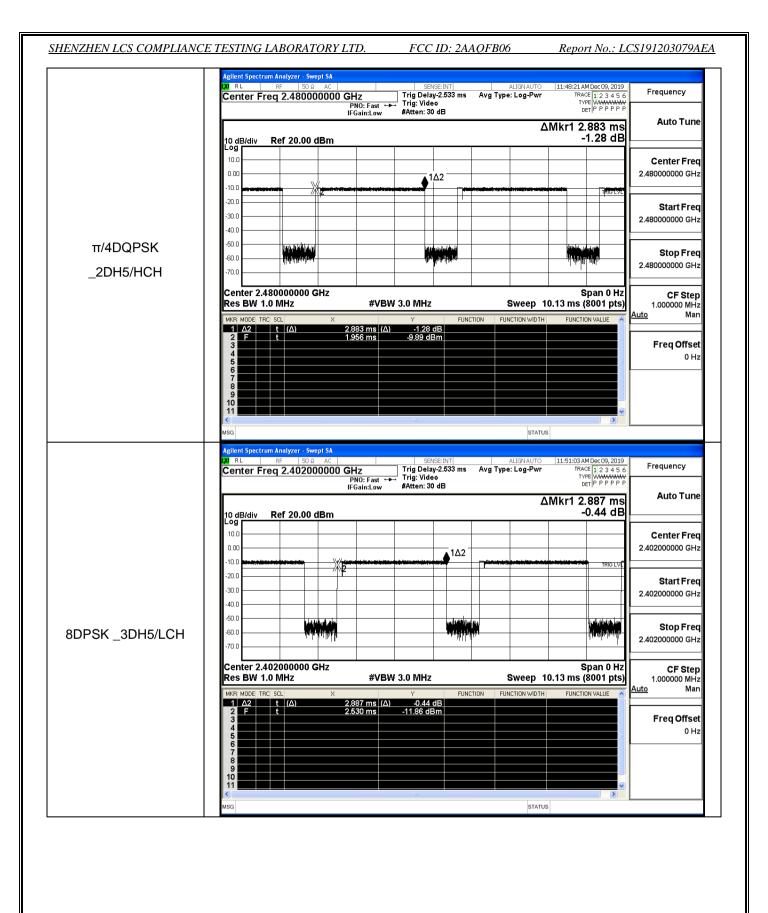
## A.5 Dwell Time

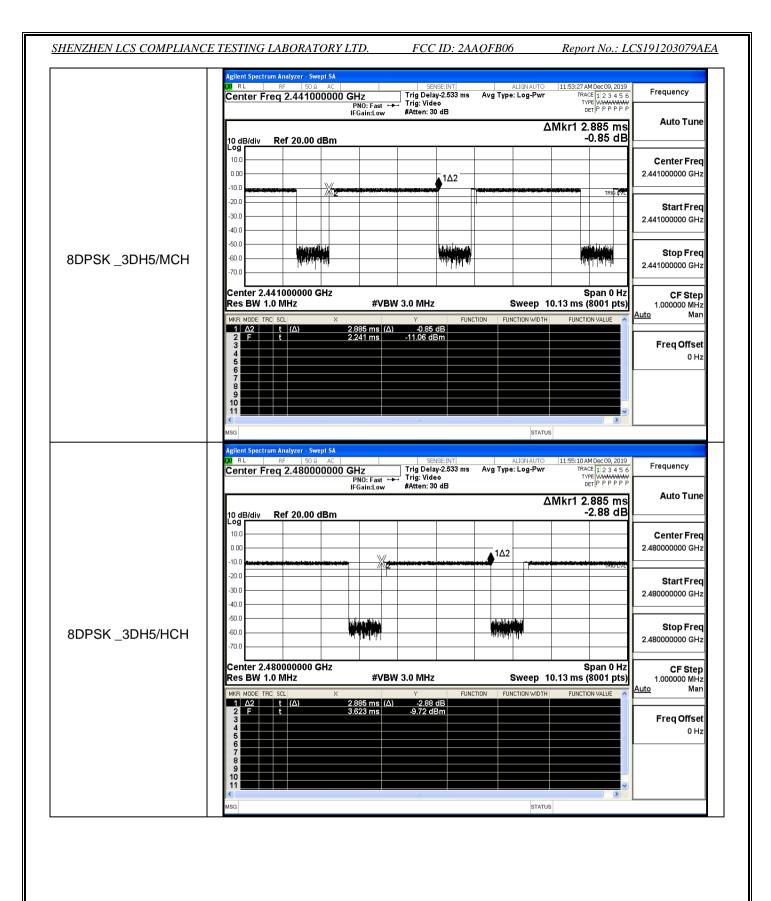
Mode	Packet	Channel	Burst Width [ms/hop/ch]	Total Hops[hop*ch]	Dwell Time[s]	Limit [s]	Verdict
	DH5	LCH	2.88	106.7	0.307	0.4	PASS
GFSK	DH5	MCH	2.88	106.7	0.307	0.4	PASS
	DH5	HCH	2.88	106.7	0.307	0.4	PASS
	2DH5	LCH	2.88	106.7	0.307	0.4	PASS
π/4DQPSK	2DH5	MCH	2.88	106.7	0.307	0.4	PASS
	2DH5	HCH	2.88	106.7	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





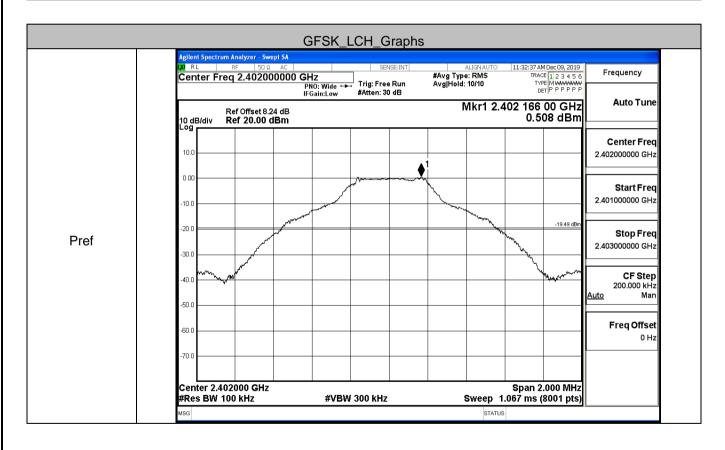






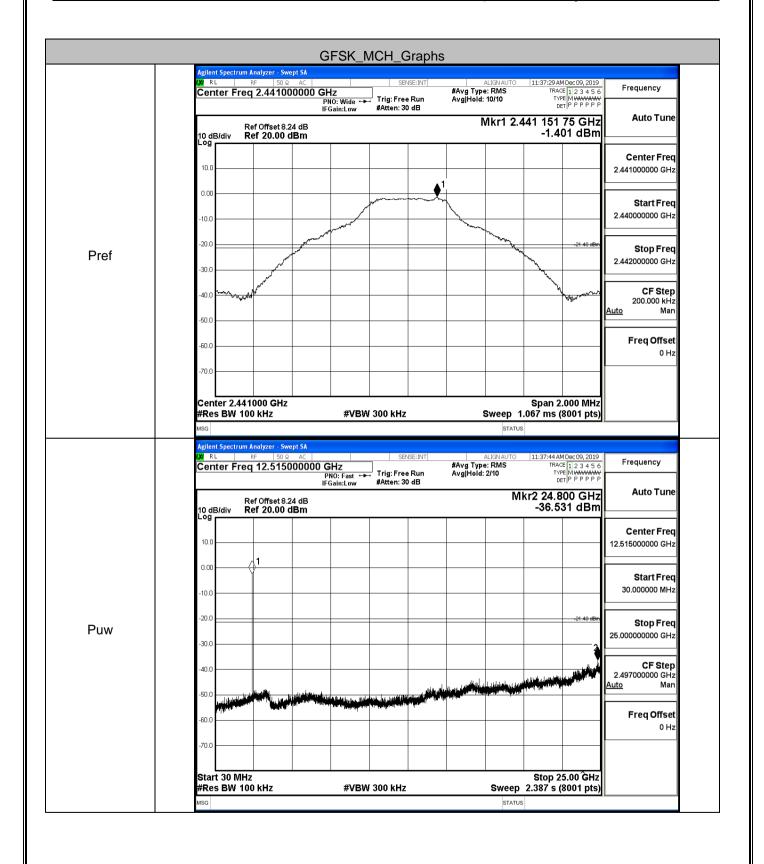
## A.6 RF Conducted Spurious Emissions

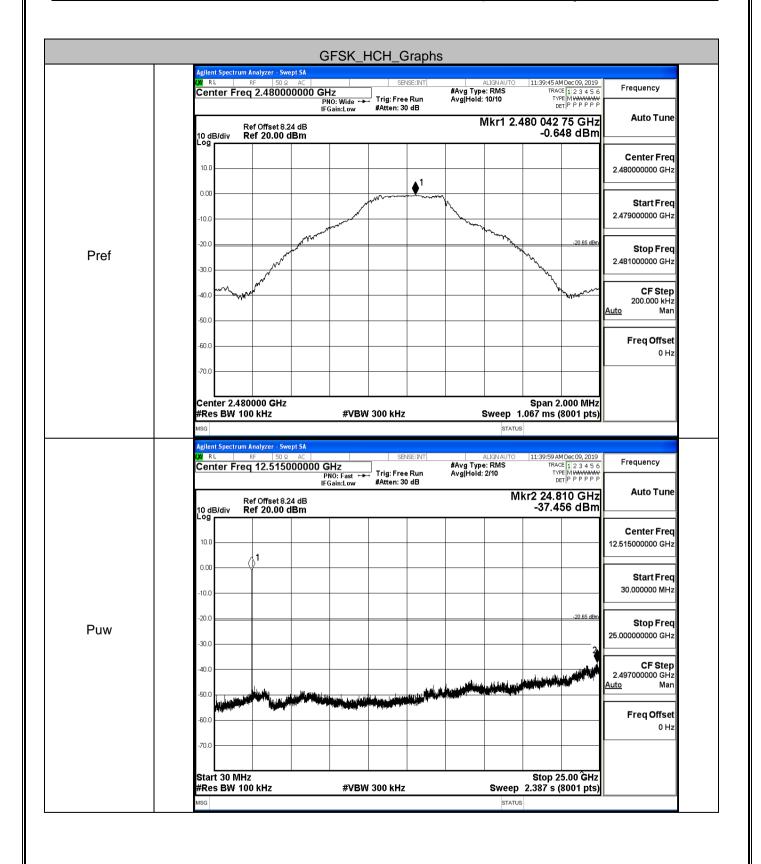
Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
	LCH	0.508	-37.905	-19.492	PASS
GFSK	MCH	-1.401	-36.531	-21.401	PASS
	HCH	-0.648	-37.456	-20.648	PASS
	LCH	-1.148	-37.547	-21.148	PASS
π/4DQPSK	MCH	-2.583	-37.501	-22.583	PASS
	HCH	-1.677	-37.595	-21.677	PASS
	LCH	-1.086	-37.020	-21.086	PASS
8DPSK	MCH	-2.487	-37.131	-22.487	PASS
	HCH	-1.661	-37.450	-21.661	PASS

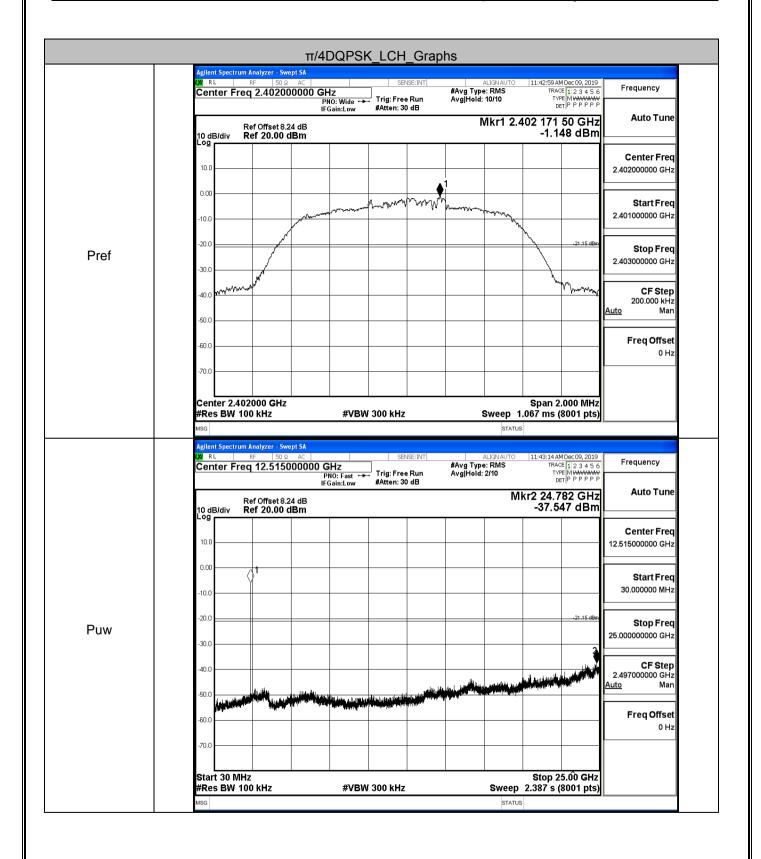


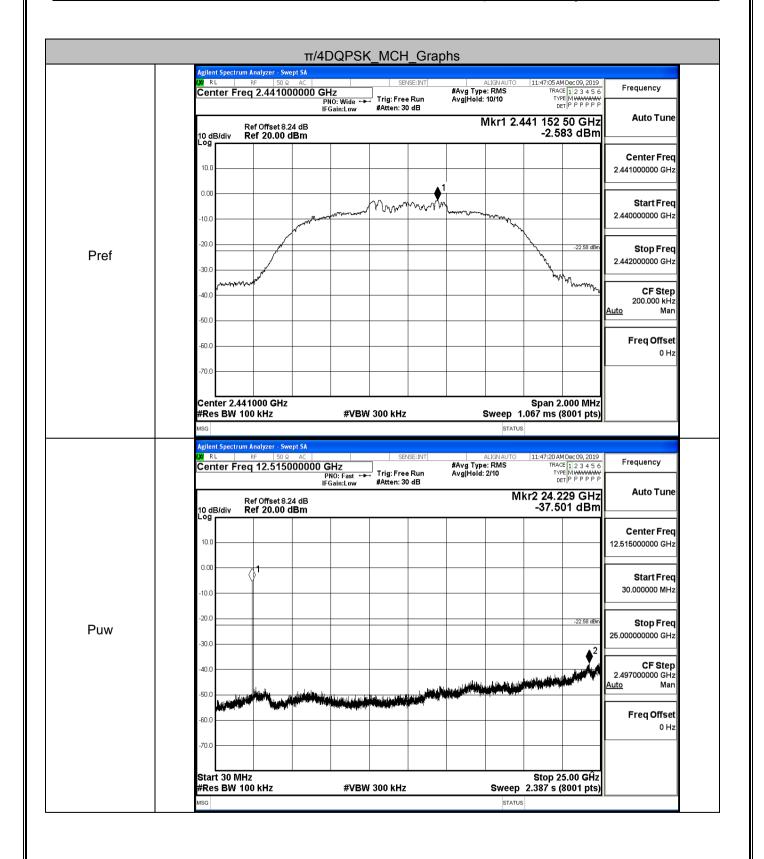
**#VBW** 300 kHz

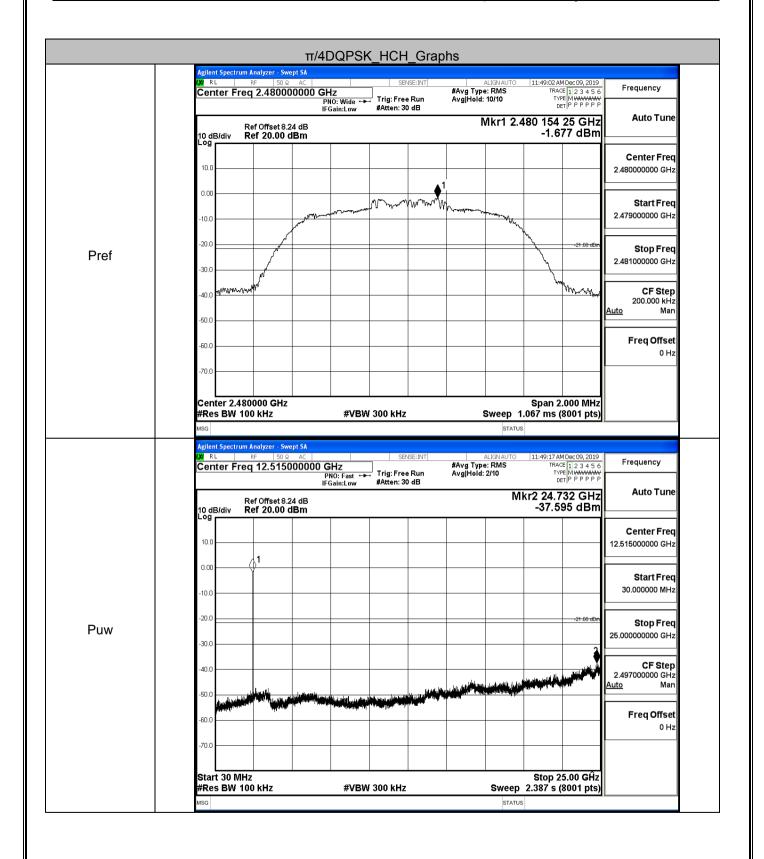
STATUS

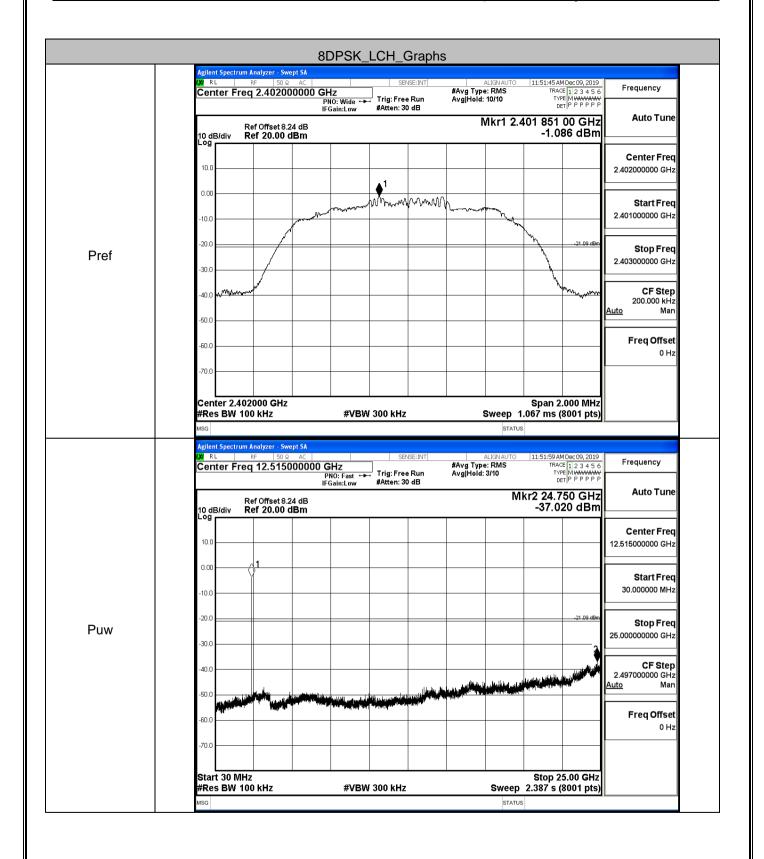


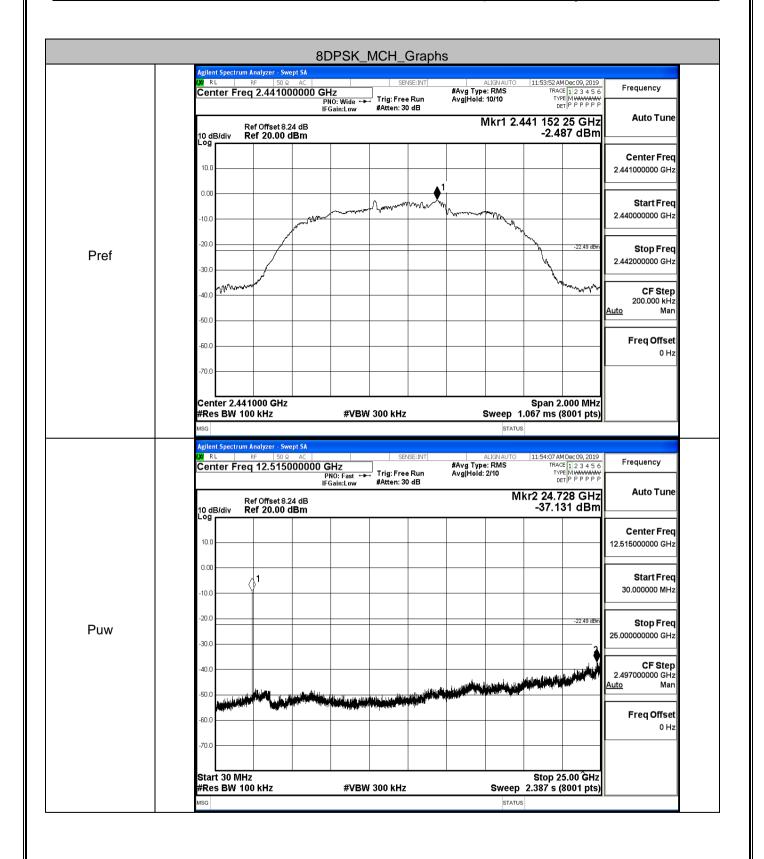


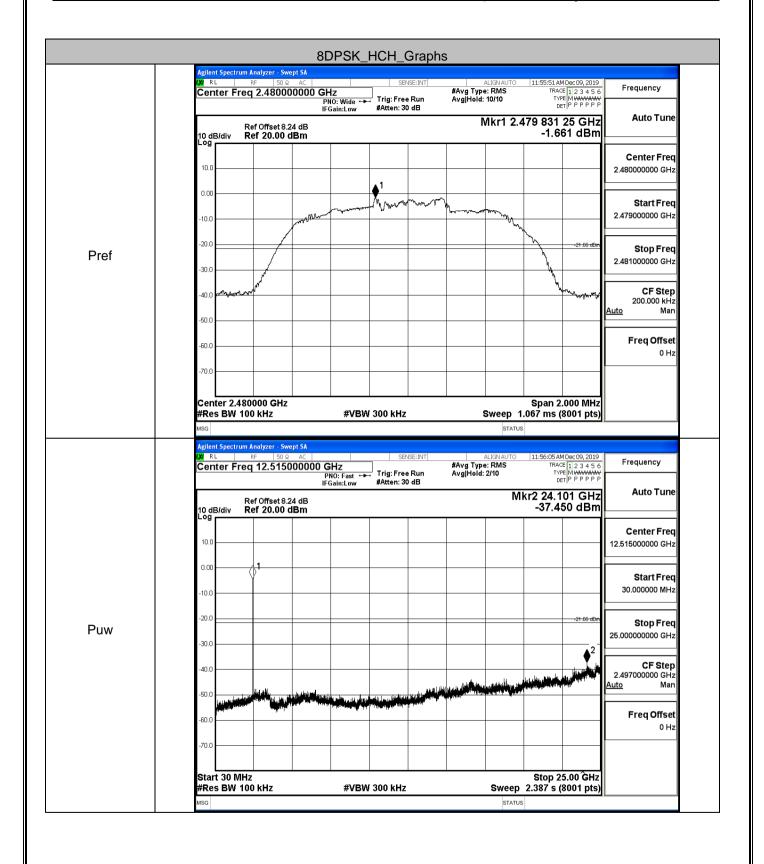






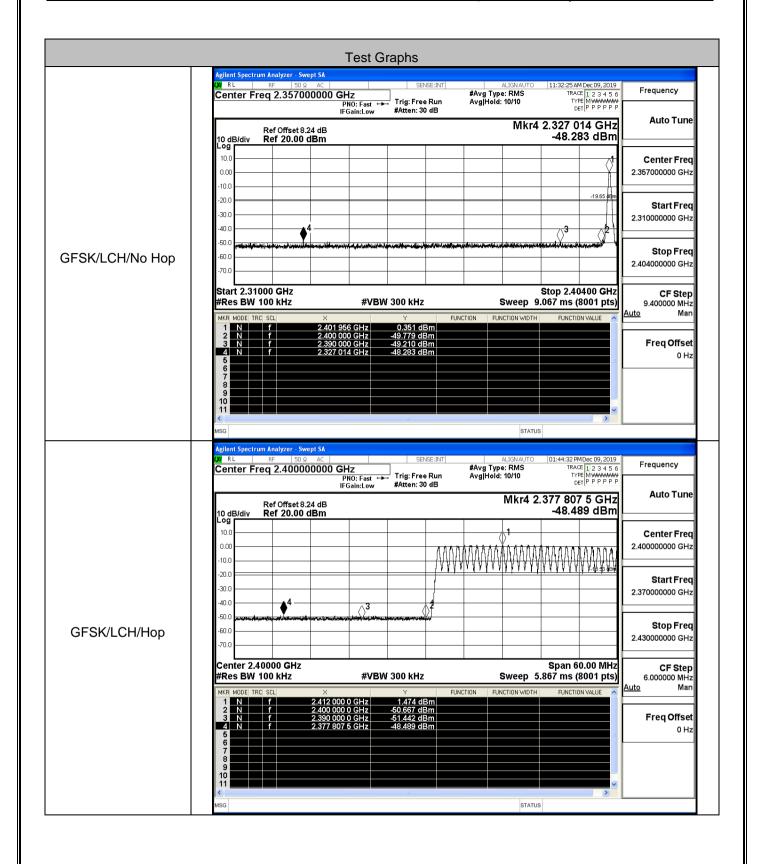


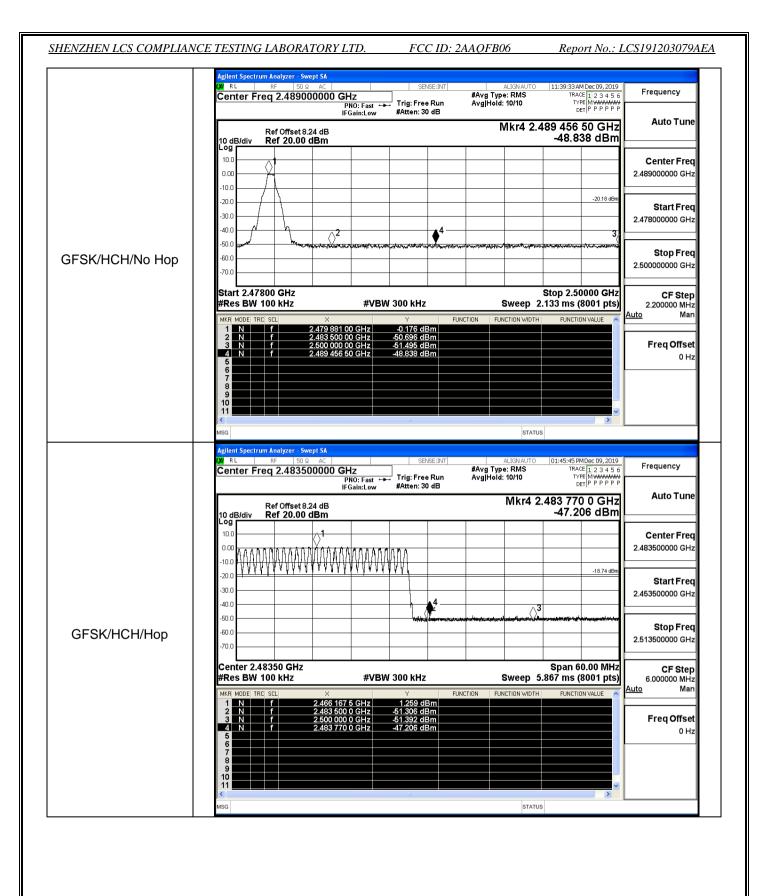


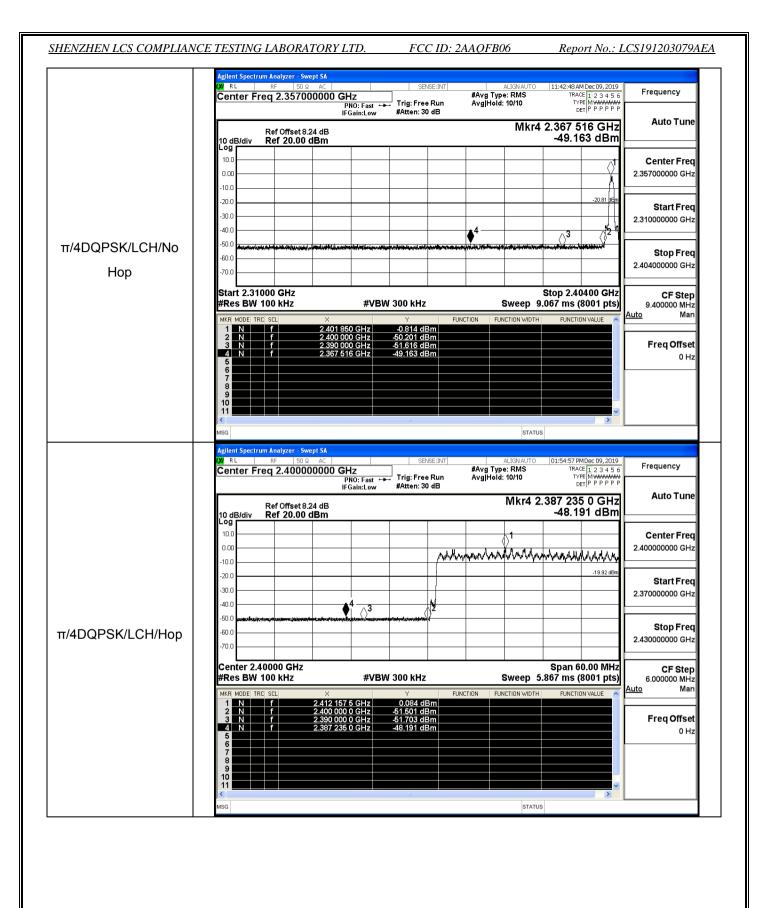


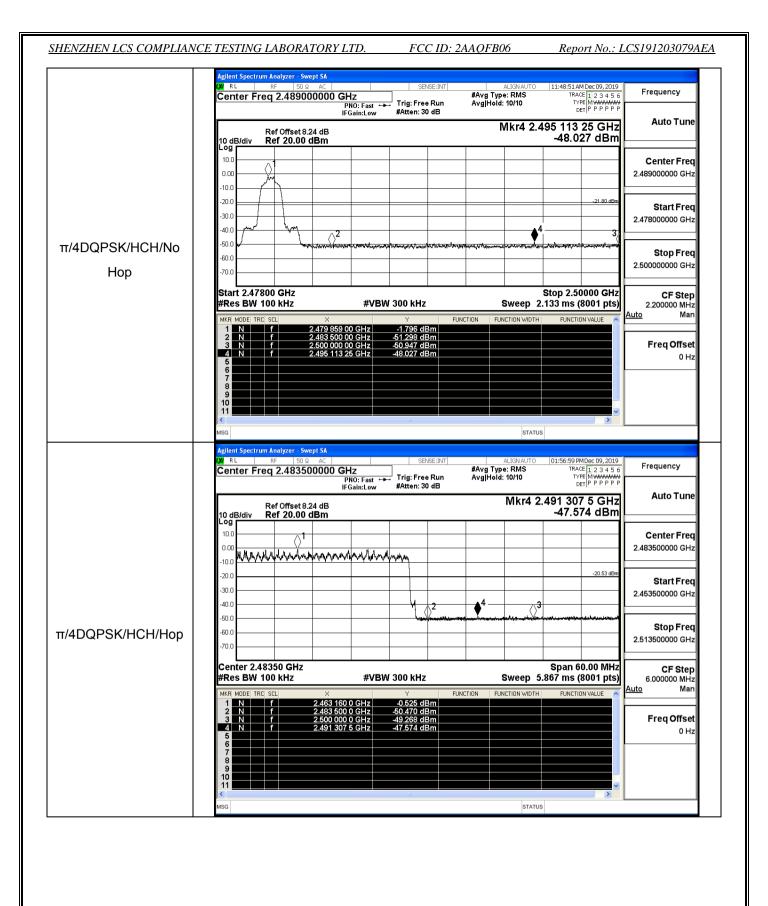
## A.7 Band-edge for RF Conducted Emissions

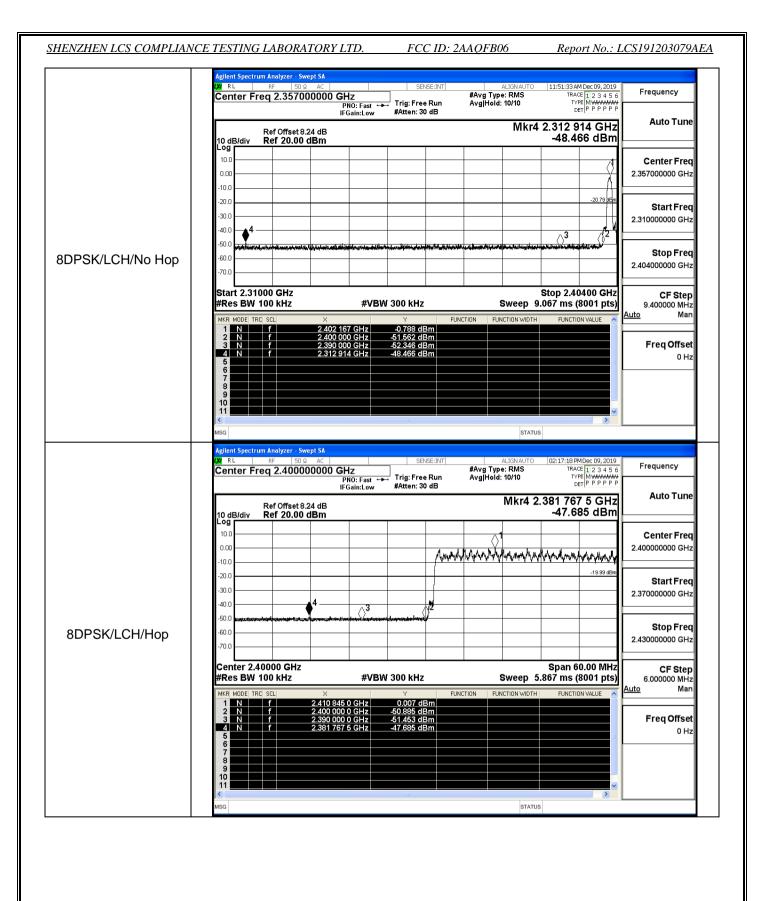
Mode	Channel	Carrier Frequency [MHz]	Carrier Power [dBm]	Frequency Hopping	Max Spurious Level [dBm]	Limit [dBm]	Verdict
		0.400	0.351	Off	-48.283	-19.65	PASS
05014	LCH	2402	1.474	On	-48.489	-18.53	PASS
GFSK		2.422	-0.176	Off	-48.838	-20.18	PASS
	HCH	2480	1.259	On	-47.206	-18.74	PASS
	LCH		-0.814	Off	-49.163	-20.81	PASS
		2402	0.084	On	-48.191	-19.92	PASS
π/4DQPSK	НСН		-1.796	Off	-48.027	-21.8	PASS
		2480	-0.525	On	-47.574	-20.53	PASS
			-0.788	Off	-48.466	-20.79	PASS
	LCH	2402	0.007	On	-47.685	-19.99	PASS
8DPSK			-2.429	Off	-48.693	-22.43	PASS
	HCH	HCH 2480	-0.805	On	-47.343	-20.81	PASS

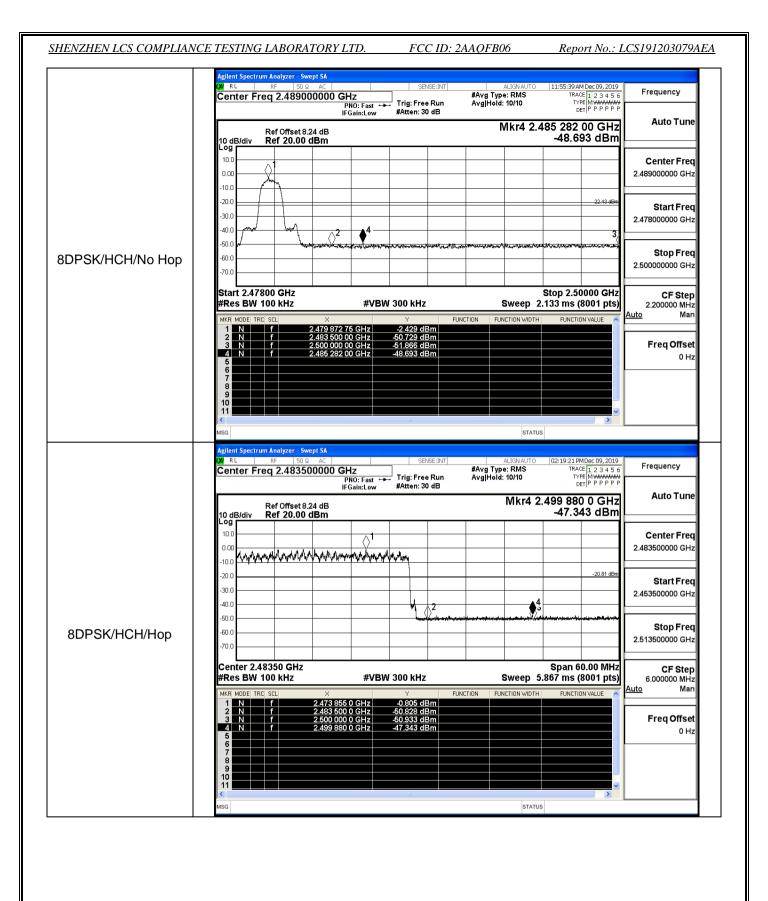








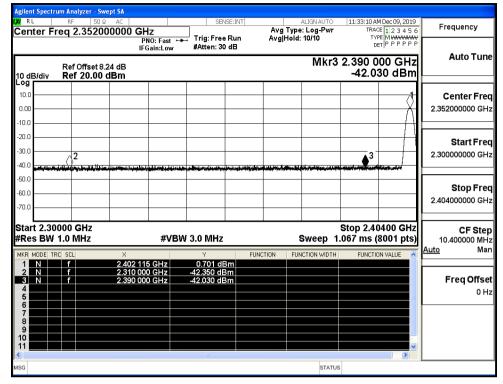




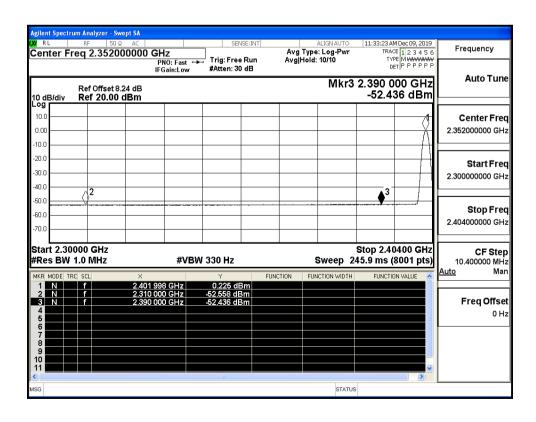
## A.8 Restrict-band band-edge measurements

Test Mode	Hopping	Freq.	Power [dBm]	Gain	Ground Factor	E [dBuV/m]	Detector	Limit [dBuV/m]	Verdict
	Off	2310.0	-42.35	2.0	0	52.91	PEAK	74	PASS
	Off	2310.0	-52.56	2.0	0	42.70	AV	54	PASS
	Off	2390.0	-42.03	2.0	0	53.23	PEAK	74	PASS
	Off	2390.0	-52.44	2.0	0	42.82	AV	54	PASS
GFSK	Off	2483.5	-42.98	2.0	0	52.28	PEAK	74	PASS
	Off	2483.5	-51.93	2.0	0	43.32	AV	54	PASS
	Off	2500.0	-41.85	2.0	0	53.41	PEAK	74	PASS
	Off	2500.0	-51.75	2.0	0	43.50	AV	54	PASS
	Off	2310.0	-43.06	2.0	0	52.19	PEAK	74	PASS
	Off	2310.0	-52.71	2.0	0	42.54	AV	54	PASS
	Off	2390.0	-42.74	2.0	0	52.52	PEAK	74	PASS
	Off	2390.0	-52.35	2.0	0	42.91	AV	54	PASS
π/4DQPSK	Off	2483.5	-41.05	2.0	0	54.21	PEAK	74	PASS
	Off	2483.5	-51.81	2.0	0	43.45	AV	54	PASS
	Off	2500.0	-41.02	2.0	0	54.24	PEAK	74	PASS
	Off	2500.0	-51.78	2.0	0	43.48	AV	54	PASS
	Off	2310.0	-42.84	2.0	0	52.41	PEAK	74	PASS
	Off	2310.0	-52.71	2.0	0	42.54	AV	54	PASS
	Off	2390.0	-41.86	2.0	0	53.40	PEAK	74	PASS
	Off	2390.0	-52.30	2.0	0	42.96	AV	54	PASS
8DPSK	Off	2483.5	-41.98	2.0	0	53.28	PEAK	74	PASS
	Off	2483.5	-51.93	2.0	0	43.33	AV	54	PASS
	Off	2500.0	-41.00	2.0	0	54.26	PEAK	74	PASS
	Off	2500.0	-51.81	2.0	0	43.45	AV	54	PASS

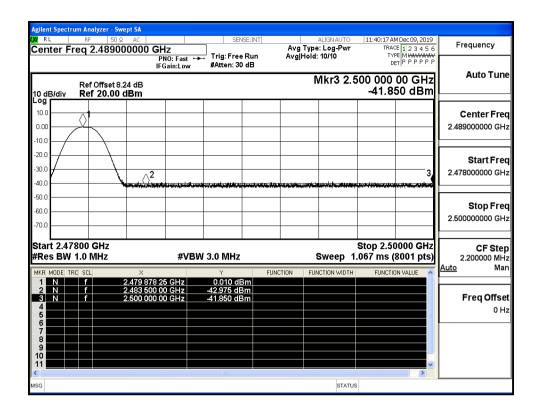




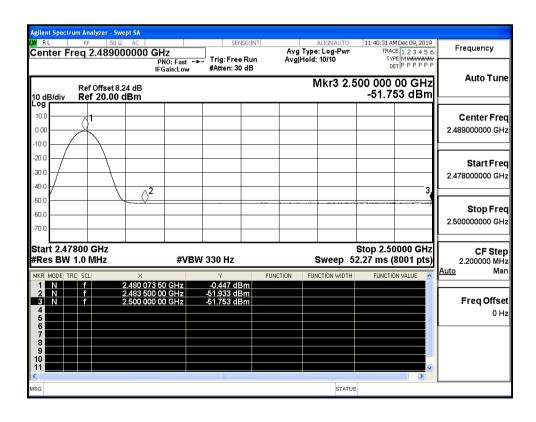
## Restrict-band band-edge measurements\_Hopping Off\_ GFSK\_Average (Low Channel)



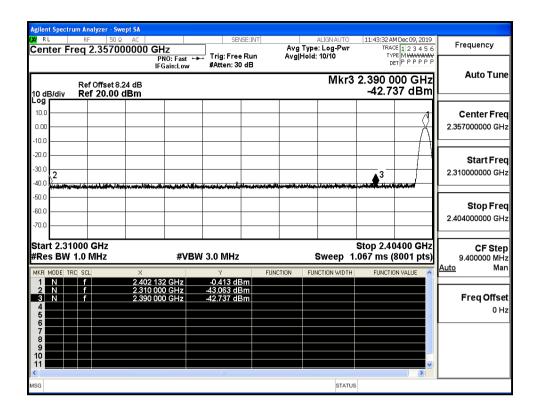
#### Restrict-band band-edge measurements\_Hopping Off\_ GFSK\_PEAK (High Channel)



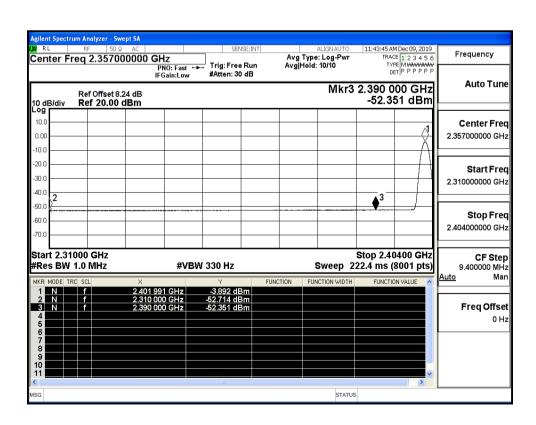
#### Restrict-band band-edge measurements\_Hopping Off\_ GFSK\_Average (High Channel)



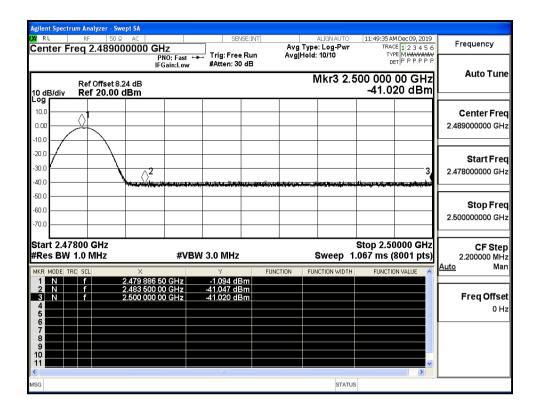
## Restrict-band band-edge measurements\_Hopping Off\_π/4-DQPSK\_PEAK (Low Channel)



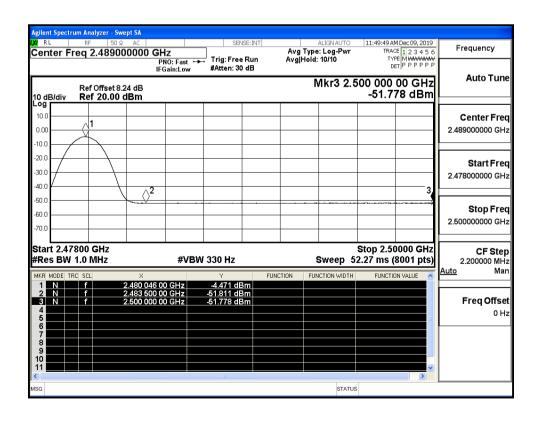
## Restrict-band band-edge measurements\_Hopping Off\_π/4-DQPSK\_Average (Low Channel)



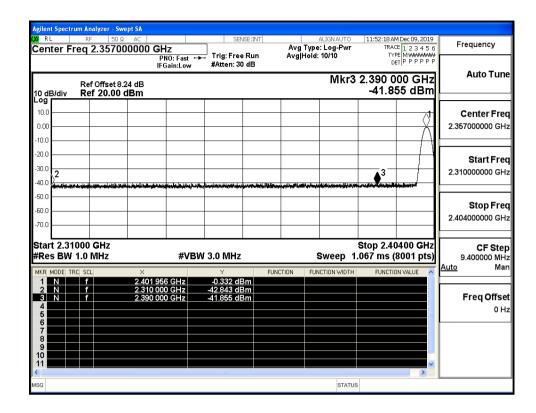
## Restrict-band band-edge measurements\_Hopping Off\_π/4-DQPSK\_PEAK (High Channel)



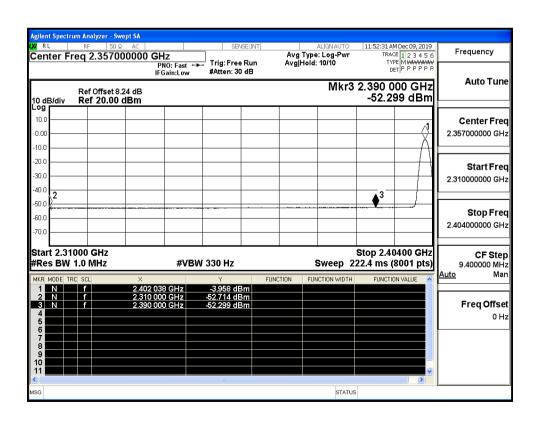
#### Restrict-band band-edge measurements\_Hopping Off\_π/4-DQPSK\_Average (High Channel)



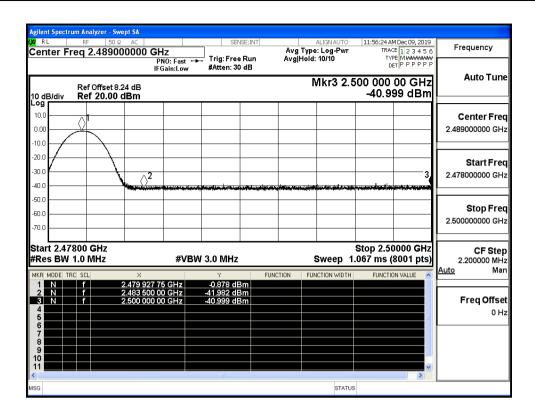
## Restrict-band band-edge measurements\_Hopping Off\_8DPSK\_PEAK (Low Channel)



## Restrict-band band-edge measurements\_Hopping Off\_8DPSK\_Average (Low Channel)



#### Restrict-band band-edge measurements\_Hopping Off\_8DPSK\_PEAK (High Channel)



## Restrict-band band-edge measurements\_Hopping Off\_8DPSK\_Average (High Channel)

