Appendix A

RF Test Data for BT V4.2(BDR/EDR) (Conducted Measurement)

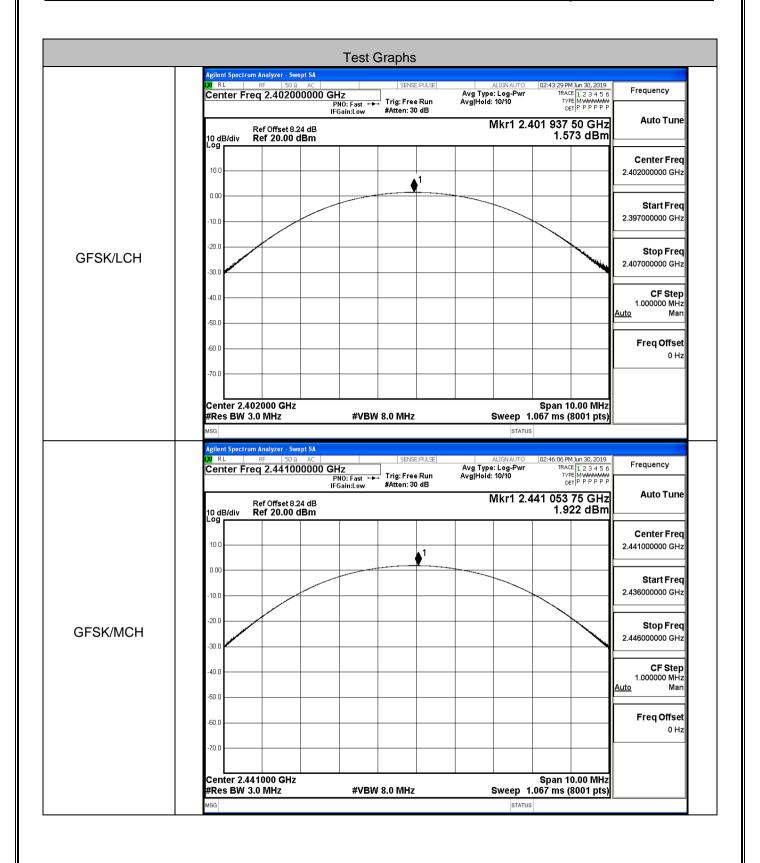
Product Name: Bluetooth Speaker Trade Mark: Supersonic Test Model: SC-2324BT

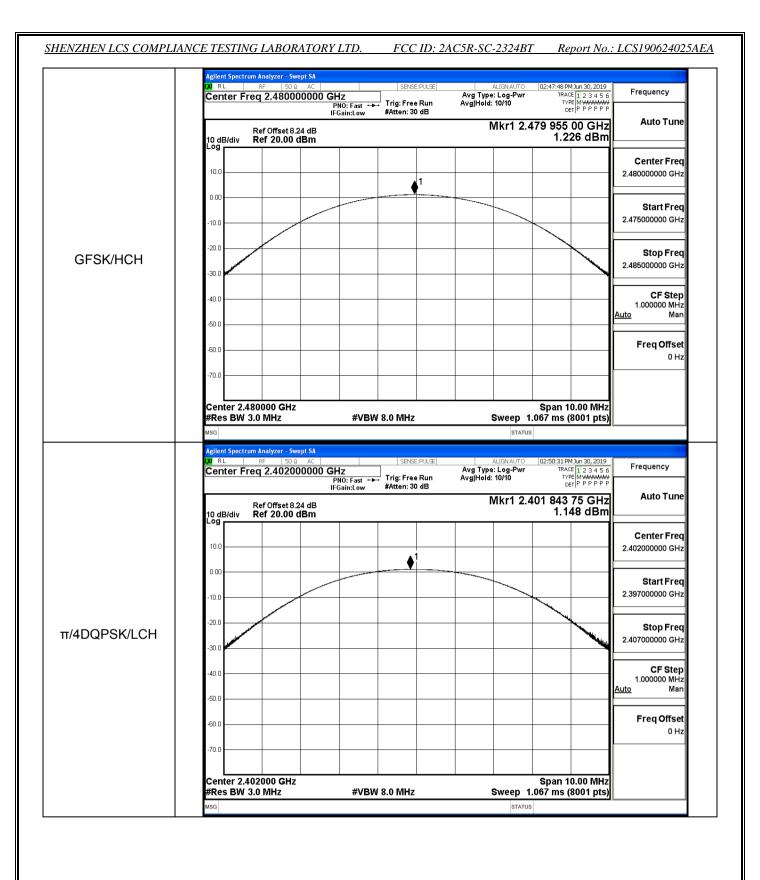
Environmental Conditions

Temperature:	24.6 ° C
Relative Humidity:	54.2%
ATM Pressure:	100.0 kPa
Test Engineer:	Diamond Lu
Supervised by:	Wang Chuang

A.1 Maxmum Conducted Peak Output Power

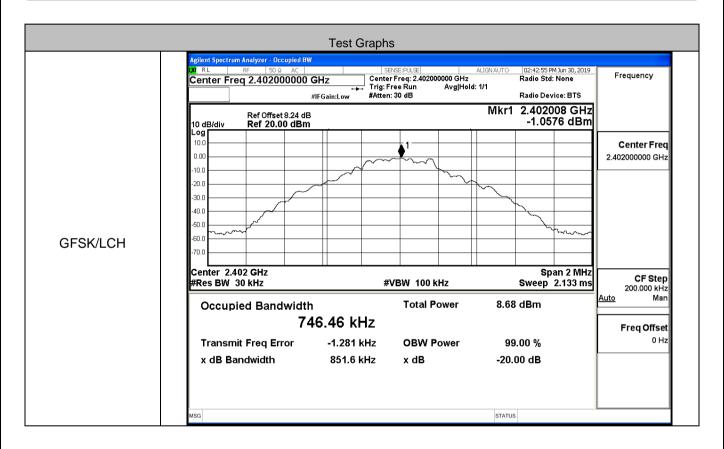
Mode	Channel.	Maximum Peak Output Power [dBm]	Limit [dBm]	Verdict
	LCH	1.573	30	PASS
GFSK	MCH	1.922	30	PASS
	НСН	1.226	30	PASS
	LCH	1.148	21	PASS
π/4DQPSK	QPSK MCH 0.953		21	PASS
	НСН	0.983	21	PASS





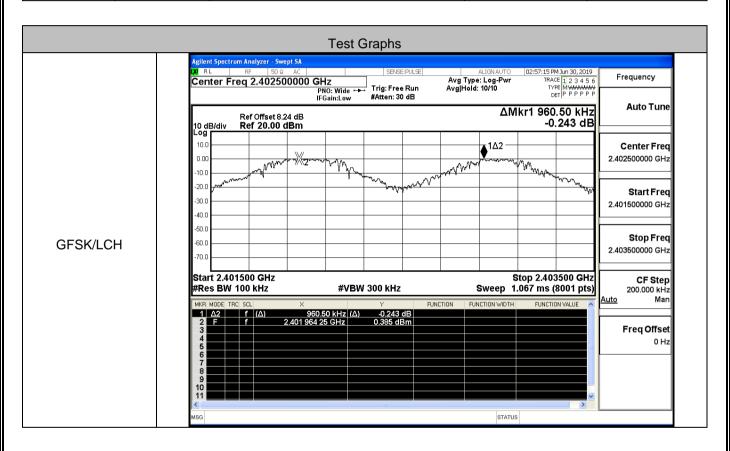
A.2 20dB Bandwidth

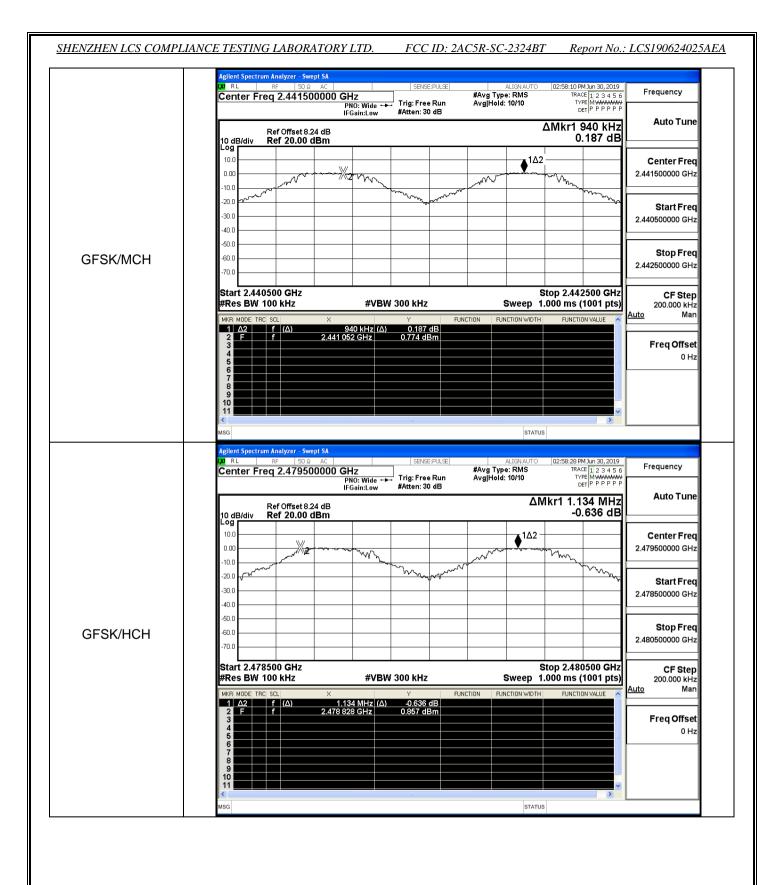
Mode	Channel.	20dB Bandwidth [MHz]	Limit [MHz]	Verdict
	LCH	0.8516	Not Specified	PASS
GFSK	MCH	0.8484	Not Specified	PASS
	HCH	0.8487	Not Specified	PASS
	LCH	1.270	Not Specified	PASS
π/4DQPSK	MCH	1.263	Not Specified	PASS
	НСН	1.268	Not Specified	PASS

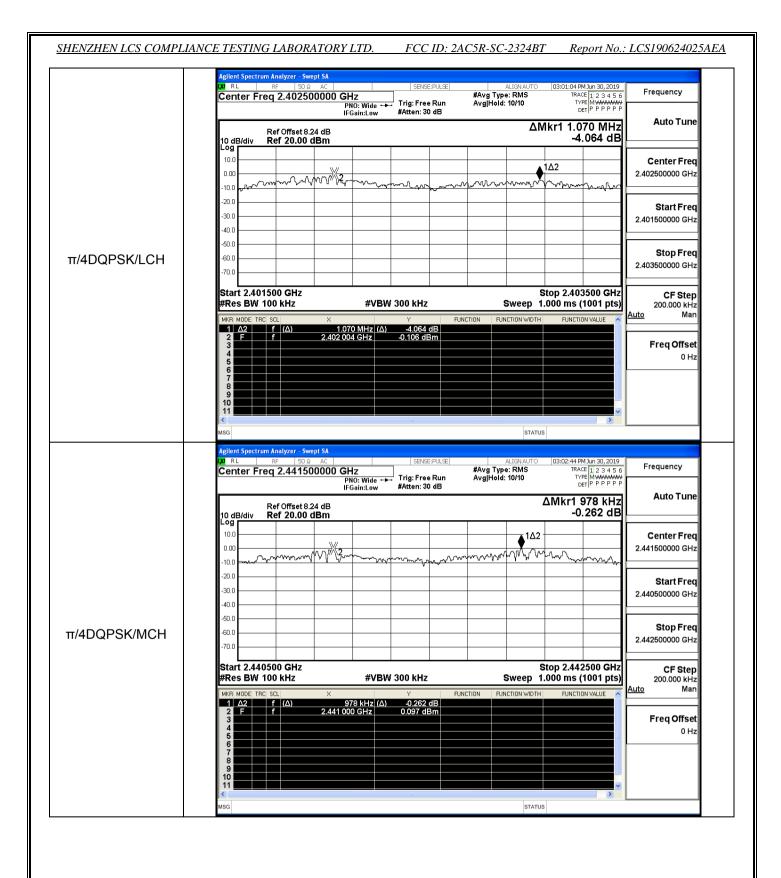


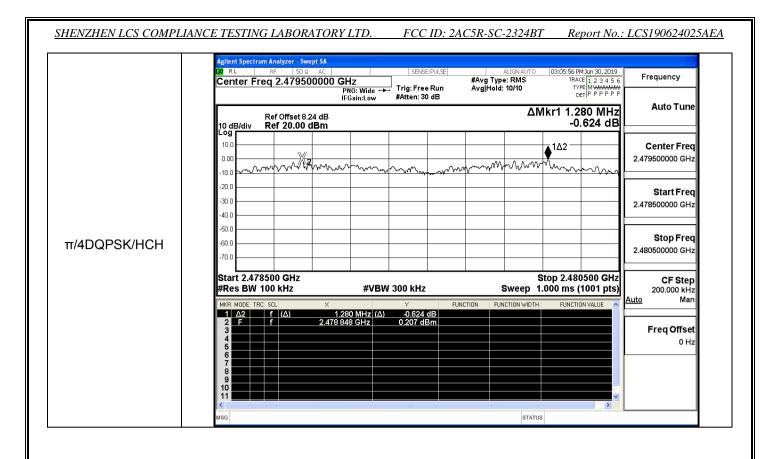
A.3 Carrier Frequency Separation

Mode	Channel.	Carrier Frequency Separation [MHz]	Limit [MHz]	Verdict
	LCH	0.961	0.568	PASS
GFSK	MCH	0.940	0.568	PASS
	HCH	1.134	0.568	PASS
π/4DQPSK	LCH	1.070	0.847	PASS
	MCH	0.978	0.847	PASS
	НСН	1.280	0.847	PASS



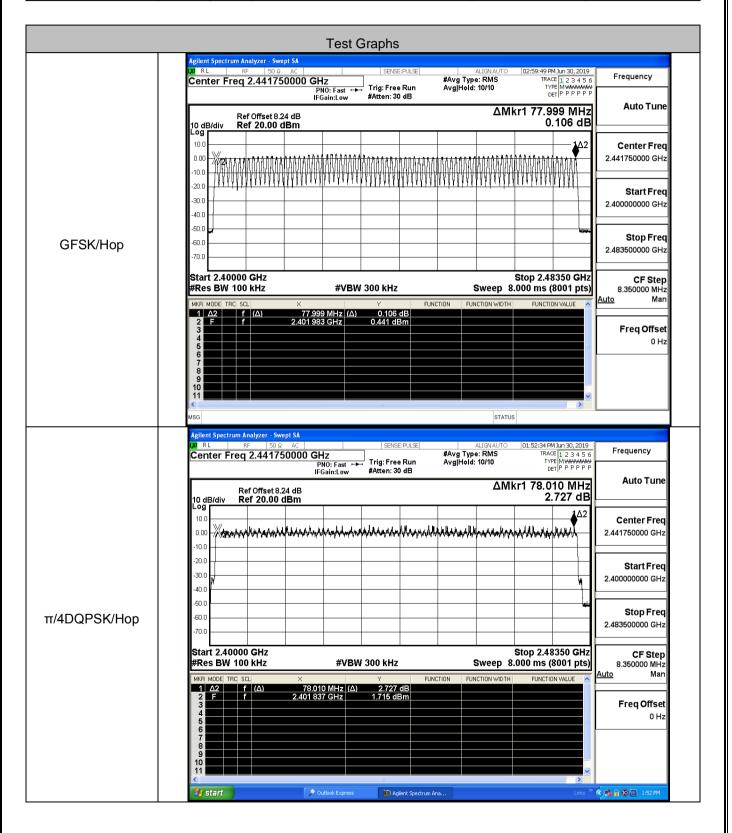






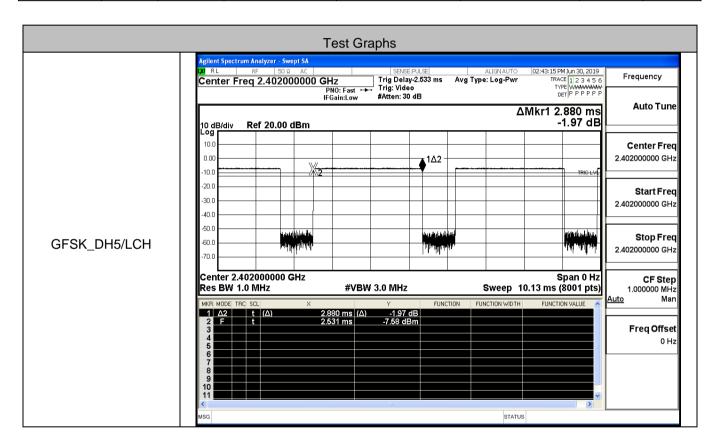
A.4 Hopping Channel Number

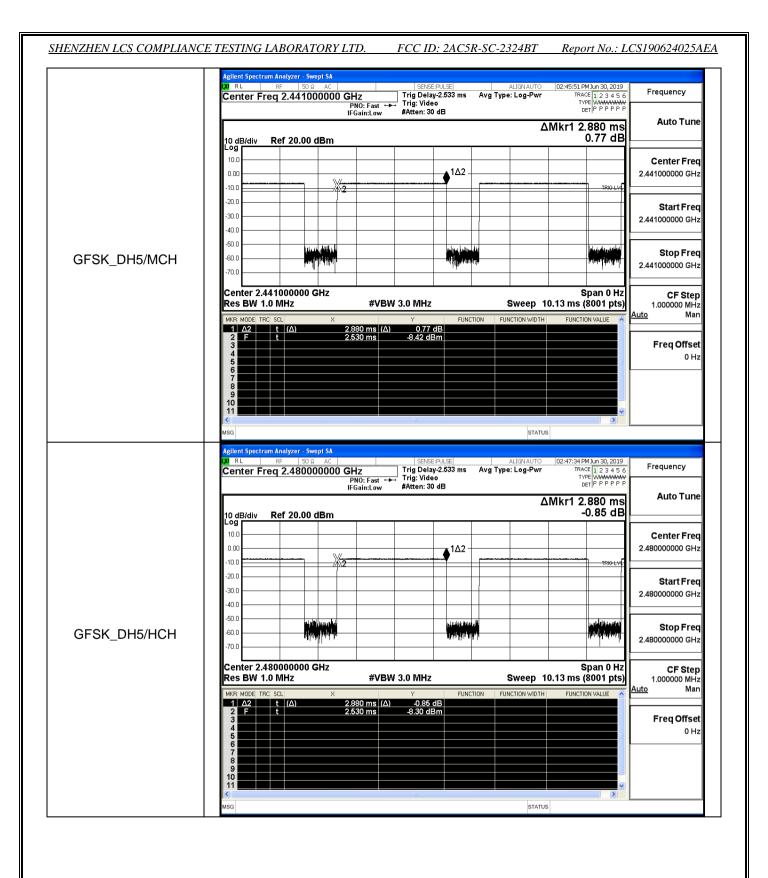
Mode	Channel.	Number of Hopping Channel [N]	Limit [N]	Verdict
GFSK	Нор	79	>=15	PASS
π/4DQPSK	Нор	79	>=15	PASS

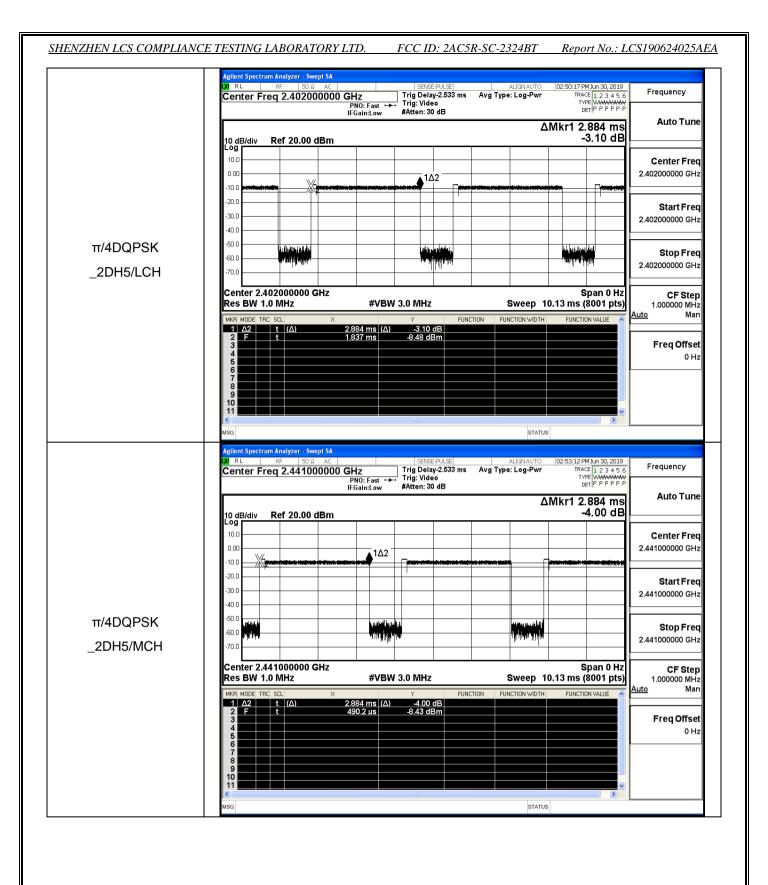


A.5 Dwell Time

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	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



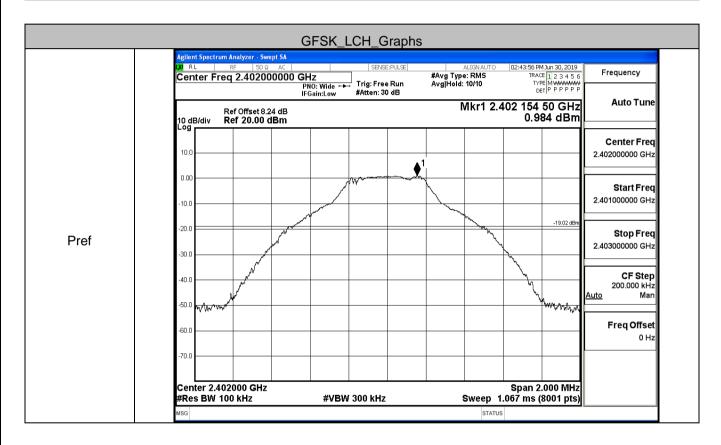




SHENZHEN LCS COMPLIANCE TESTING LABORATORY LTD. FCC ID: 2AC5R-SC-2324BT Report No.: LCS190624025AEA Agilent Spectrum Analyzer - Swept SA | M | RL | RF | SO Q | AC | | Center Freq 2.480000000 GHz | PNO: Fast | FGain:Low Frequency **Auto Tune** ΔMkr1 2.884 ms -0.01 dB 10 dB/div Ref 20.00 dBm 10.0 Center Freq 0.00 2.480000000 GHz 1Δ2 -10.0 -20.0 Start Freq -30.0 2.480000000 GHz -40.0 -50.0 π/4DQPSK Stop Freq -60.0 2.480000000 GHz 2DH5/HCH -70.0 Center 2.480000000 GHz Res BW 1.0 MHz Span 0 Hz CF Step 1.000000 MHz Man Sweep 10.13 ms (8001 pts) **#VBW 3.0 MHz** <u>Auto</u> FUNCTION FUNCTION WIDTH FUNCTION VALUE 2.884 ms (Δ) -0.01 dB 1.134 ms -10.56 dBm Freq Offset 0 Hz STATUS

A.6 RF Conducted Spurious Emissions

Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
	LCH	0.984	-43.565	-19.016	PASS
GFSK	MCH	1.379	-43.066	-18.621	PASS
	НСН	0.67	-43.255	-19.330	PASS
	LCH	0.685	-44.423	-19.315	PASS
π/4DQPSK	/4DQPSK MCH 0.7		-44.537	-19.300	PASS
	HCH	0.445	-45.092	-19.555	PASS



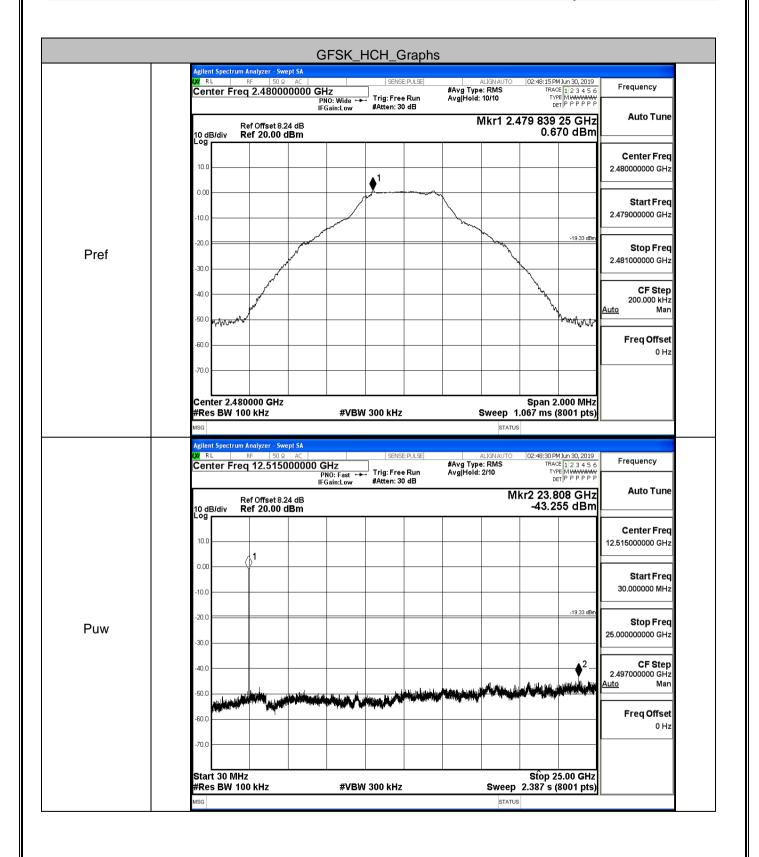
#VBW 300 kHz

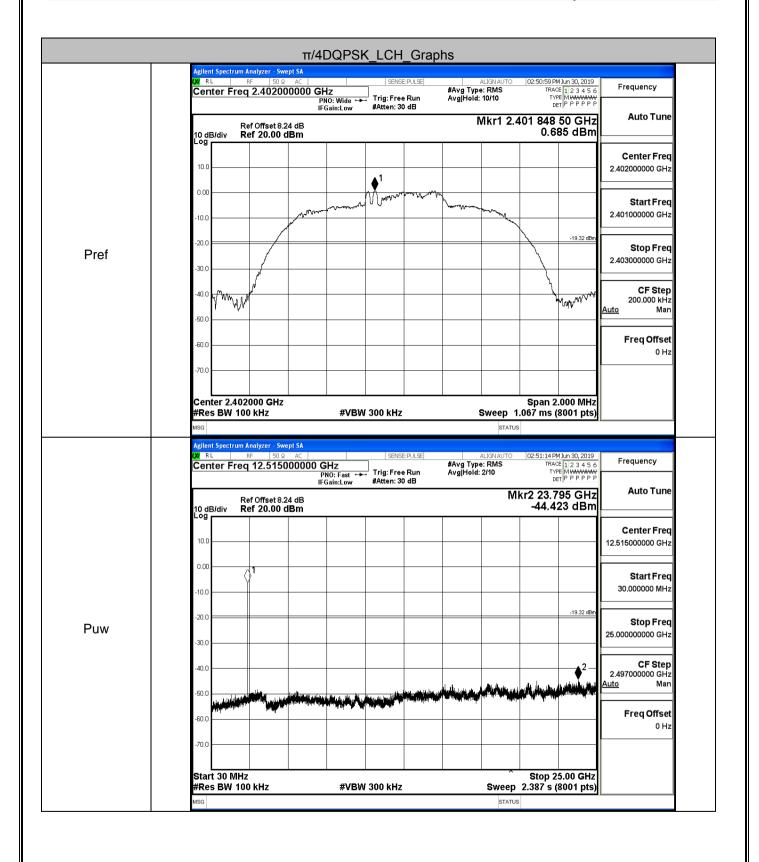
Stop 25.00 GHz Sweep 2.387 s (8001 pts)

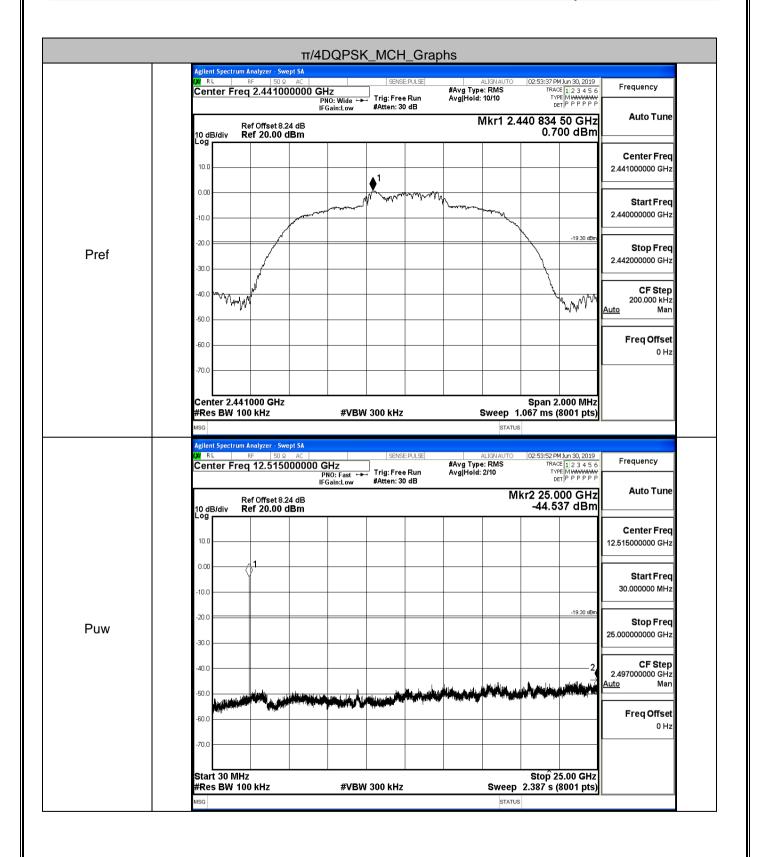
STATUS

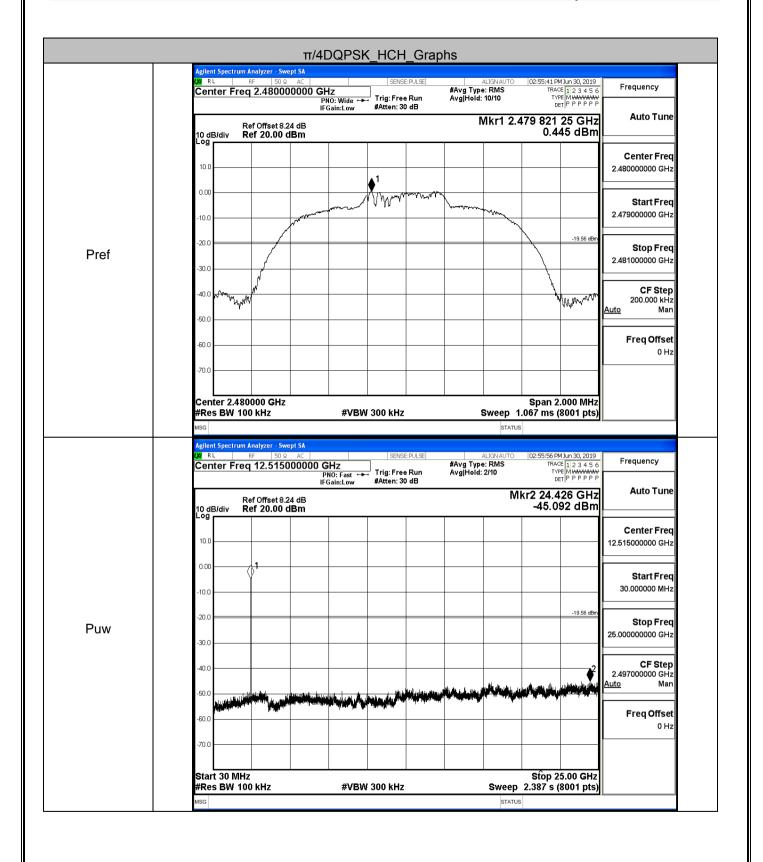
-70.0

Start 30 MHz #Res BW 100 kHz



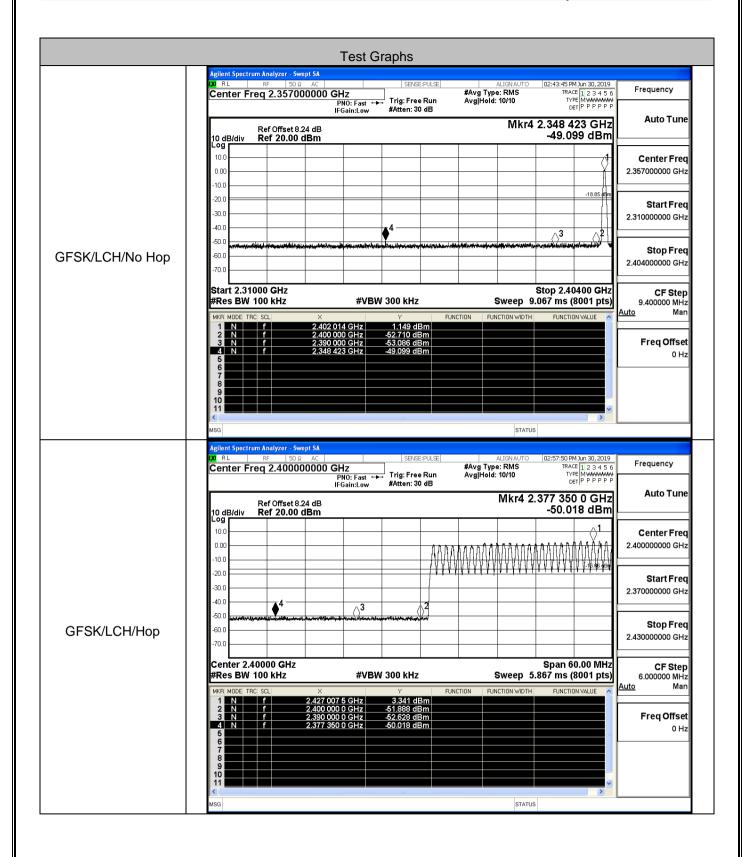


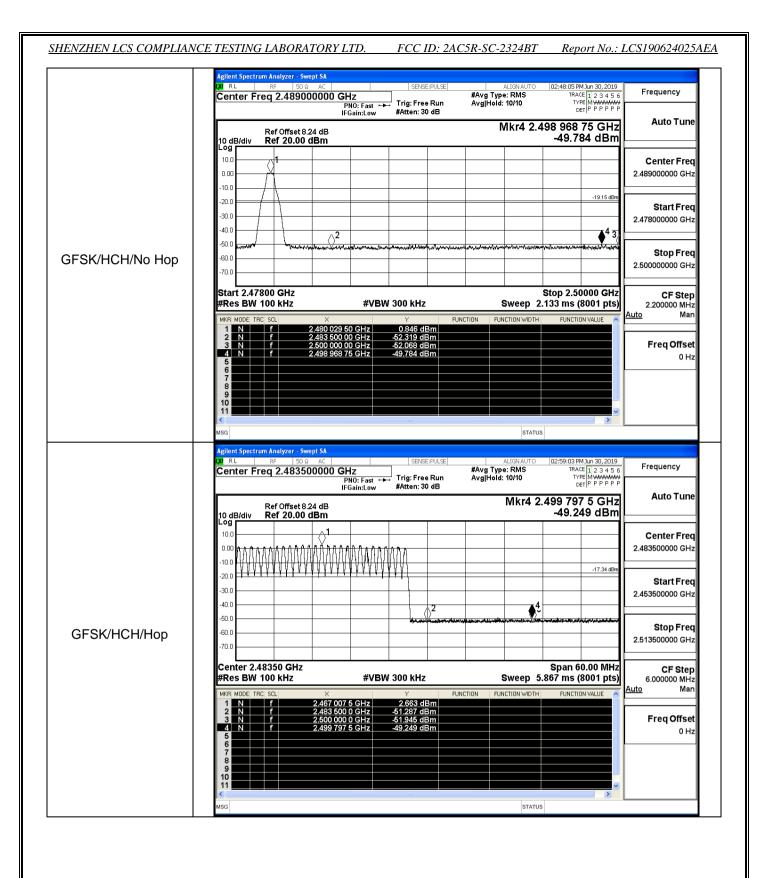


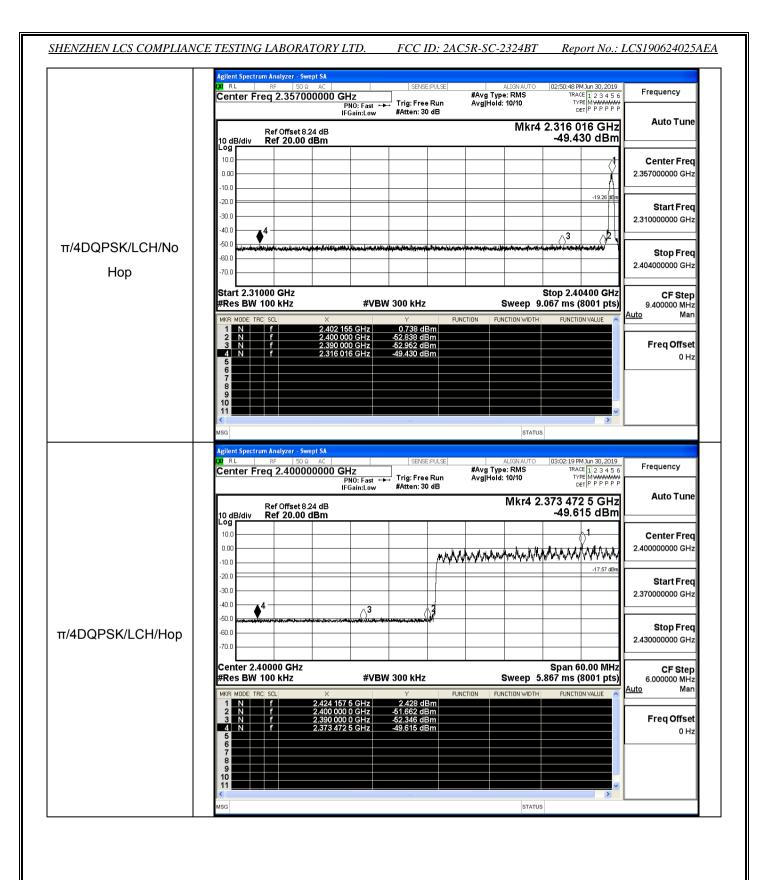


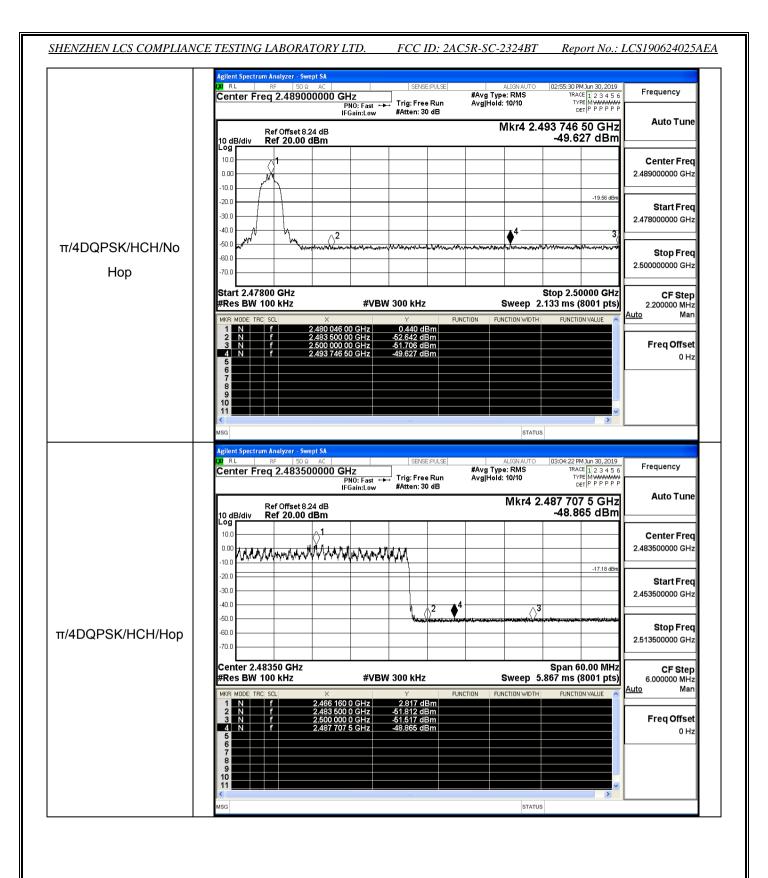
A.7 Band-edge for RF Conducted Emissions

Mode	Channel	Carrier Frequency [MHz]	Carrier Power [dBm]	Frequency Hopping	Max Spurious Level [dBm]	Limit [dBm]	Verdict
		0.400	1.149	Off	-49.099	-18.85	PASS
05014	LCH	CH 2402	3.341	On	-50.018	-16.66	PASS
GFSK		2480	0.846	Off	-49.784	-19.15	PASS
	HCH		2.663	On	-49.249	-17.34	PASS
	LCH 2402		0.738	Off	-49.430	-19.26	PASS
π/4DQPSK		2402	2.428	On	-49.615	-17.57	PASS
			0.440	Off	-49.627	-19.56	PASS
	HCH	2480	2.817	On	-48.865	-17.18	PASS



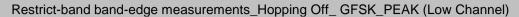


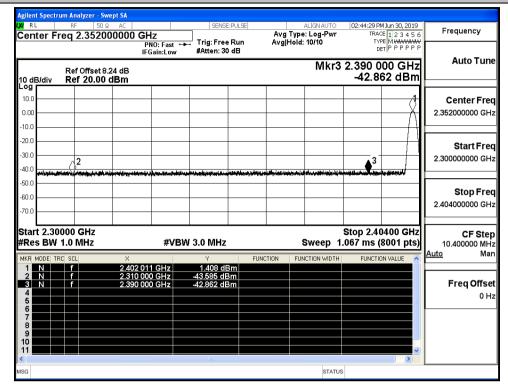




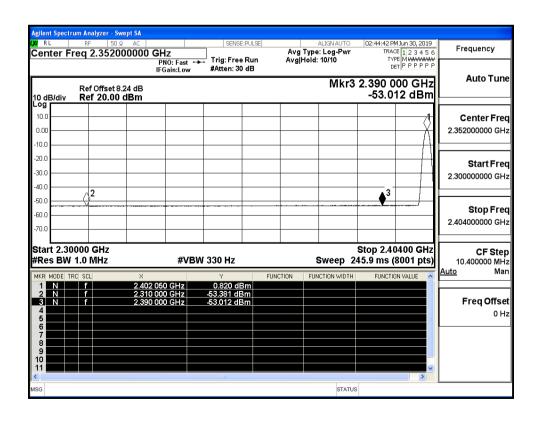
A.8 Restrict-band band-edge measurements

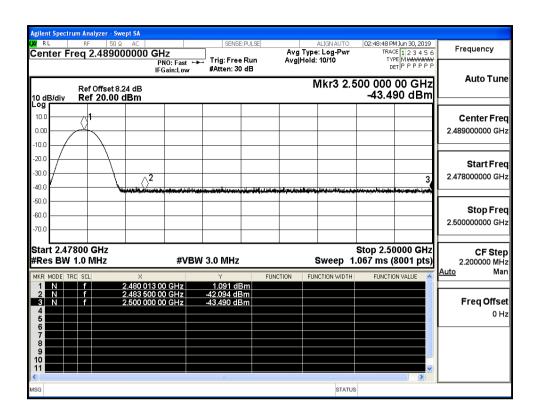
Test Mode	Hopping	Freq.	Power [dBm]	Gain	Ground Factor	E [dBuV/m]	Detector	Limit [dBuV/m]	Verdict
	Off	2310.0	-43.59	2.0	0	51.67	PEAK	74	PASS
	Off	2310.0	-53.38	2.0	0	41.88	AV	54	PASS
	Off	2390.0	-42.86	2.0	0	52.40	PEAK	74	PASS
	Off	2390.0	-53.01	2.0	0	42.25	AV	54	PASS
GFSK	Off	2483.5	-42.09	2.0	0	53.16	PEAK	74	PASS
	Off	2483.5	-52.77	2.0	0	42.48	AV	54	PASS
	Off	2500.0	-43.49	2.0	0	51.77	PEAK	74	PASS
	Off	2500.0	-52.71	2.0	0	42.55	AV	54	PASS
	Off	2310.0	-44.10	2.0	0	51.16	PEAK	74	PASS
	Off	2310.0	-53.48	2.0	0	41.77	AV	54	PASS
	Off	2390.0	-43.75	2.0	0	51.51	PEAK	74	PASS
	Off	2390.0	-53.17	2.0	0	42.09	AV	54	PASS
π/4DQPSK	Off	2483.5	-44.14	2.0	0	51.11	PEAK	74	PASS
	Off	2483.5	-52.87	2.0	0	42.39	AV	54	PASS
	Off	2500.0	-42.37	2.0	0	52.89	PEAK	74	PASS
	Off	2500.0	-52.83	2.0	0	42.43	AV	54	PASS



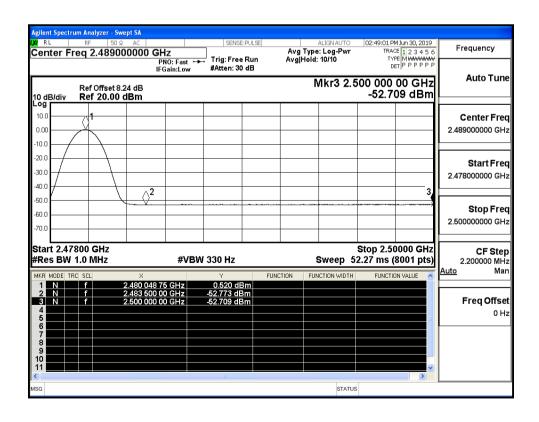


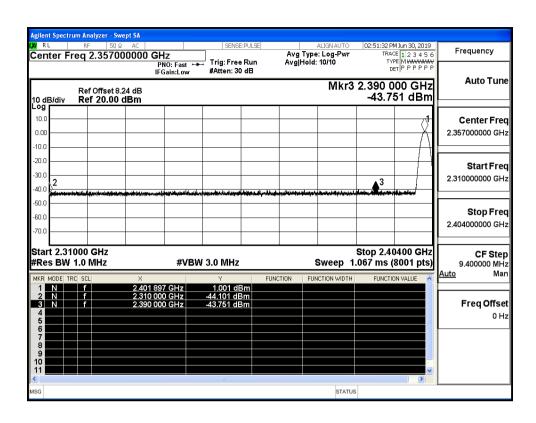
Restrict-band band-edge measurements_Hopping Off_ GFSK_Average (Low Channel)



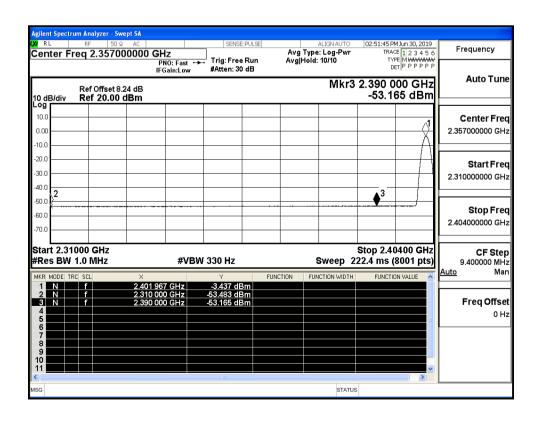


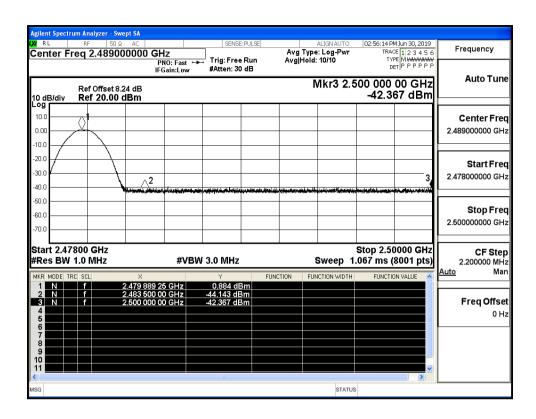
Restrict-band band-edge measurements_Hopping Off_ GFSK_Average (High Channel)





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





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

