Appendix A

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

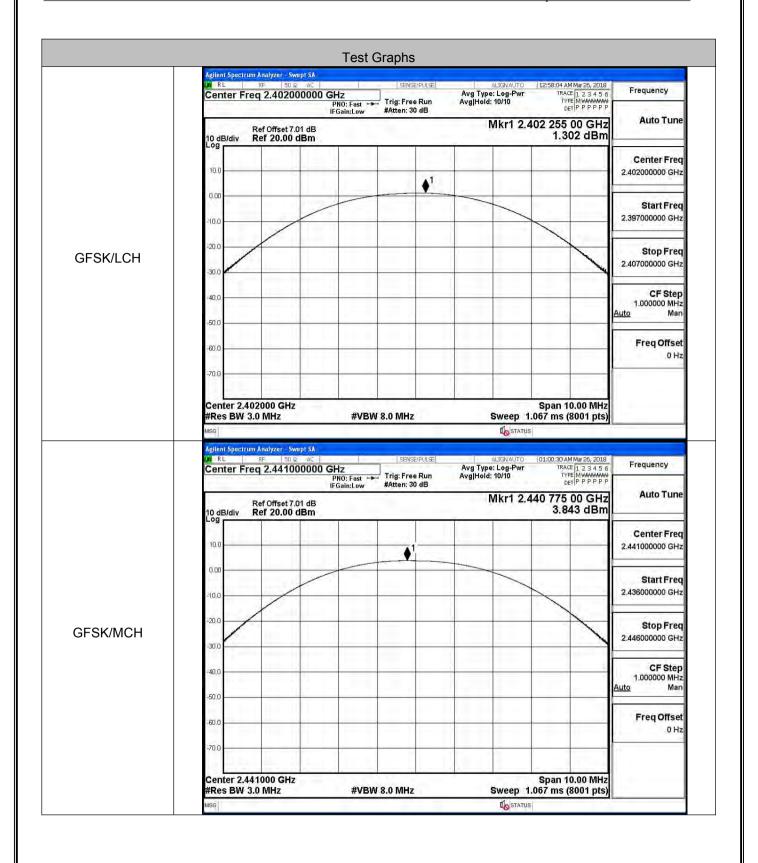
Product Name: Bluetooth Sport Headset Trade Mark: AWEI Test Model: A825BL

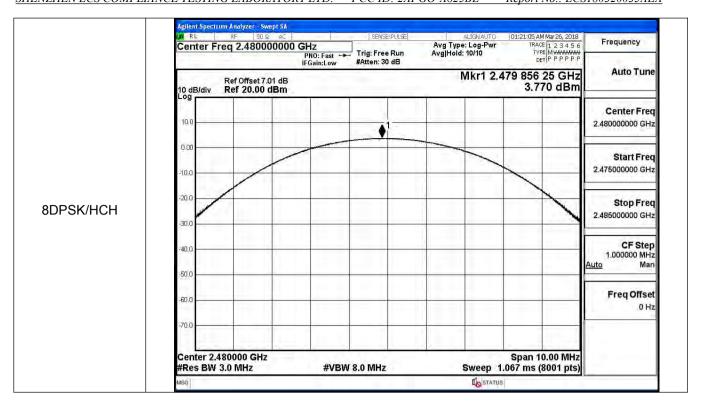
Environmental Conditions

Temperature:		20.8 ° C				
Relative Humidity:		50.6%				
ATM Pressure:		100.0 kPa				
Test Engineer:		Jayden.Zhuo				
	Supervised by:	Dick.Su				

A.1 Maxmum Conducted Peak Output Power

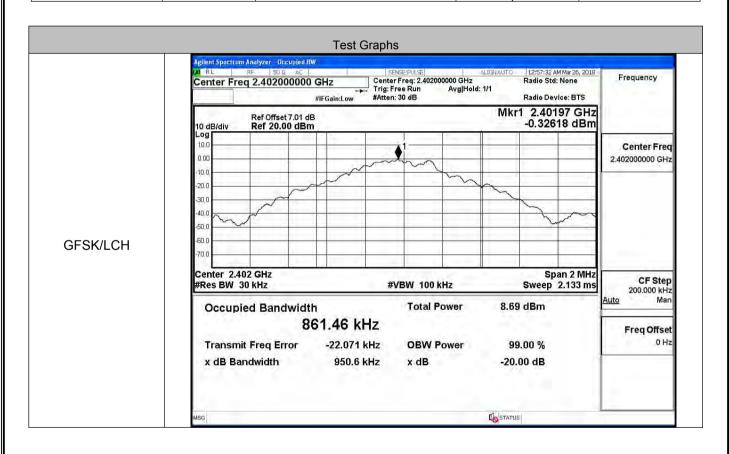
Mode	Channel.	Maximum Peak Output Power [dBm]	Limit [dBm]	Verdict
	LCH	1.302	30	PASS
GFSK	MCH	3.843	30	PASS
	НСН	4.716	30	PASS
	LCH	-0.969	21	PASS
π/4DQPSK	MCH	2.475	21	PASS
	НСН	3.509	21	PASS
	LCH	-0.565	21	PASS
8DPSK	MCH	2.834	21	PASS
	HCH	3.770	21	PASS





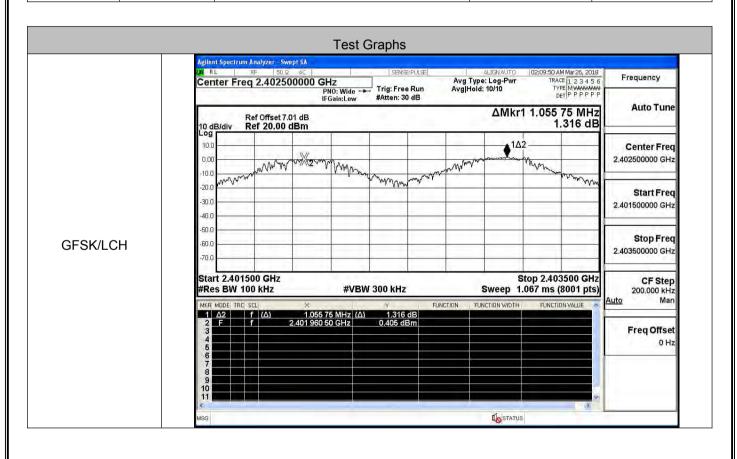
A.2 20dB Bandwidth

Mode	Channel.	20dB Bandwidth [MHz]	Limit [MHz]	Verdict
	LCH	0.9506	Not Specified	PASS
GFSK	MCH	0.9431	Not Specified	PASS
	НСН	0.9429	Not Specified	PASS
	LCH	1.259	Not Specified	PASS
π/4DQPSK	MCH	1.229	Not Specified	PASS
	HCH	1.229	Not Specified	PASS
	LCH	1.275	Not Specified	PASS
8DPSK	MCH	1.259	Not Specified	PASS
	HCH	1.260	Not Specified	PASS

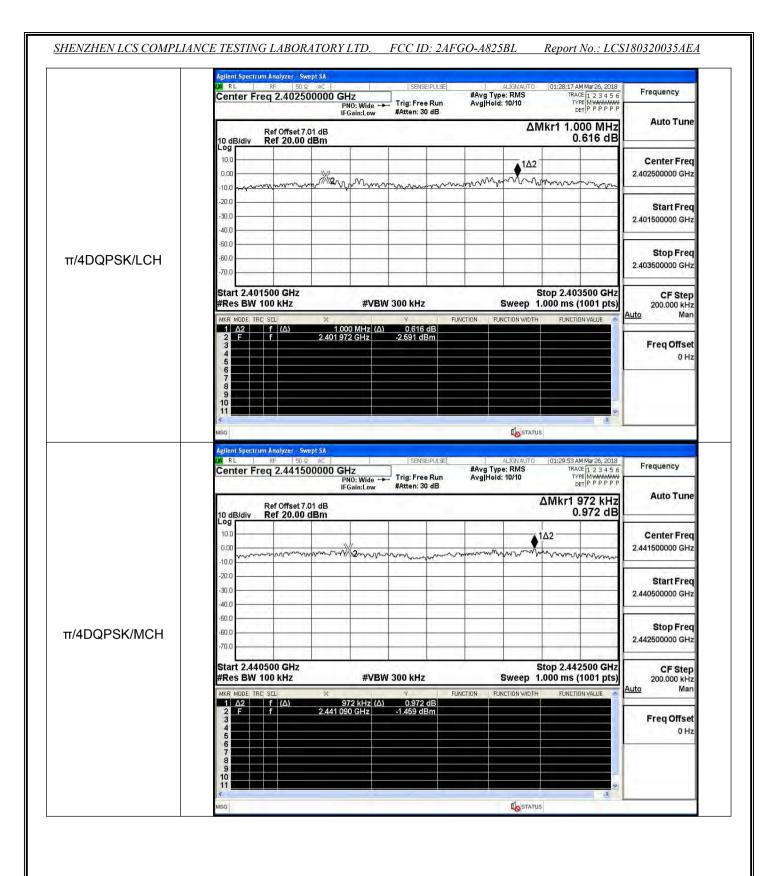


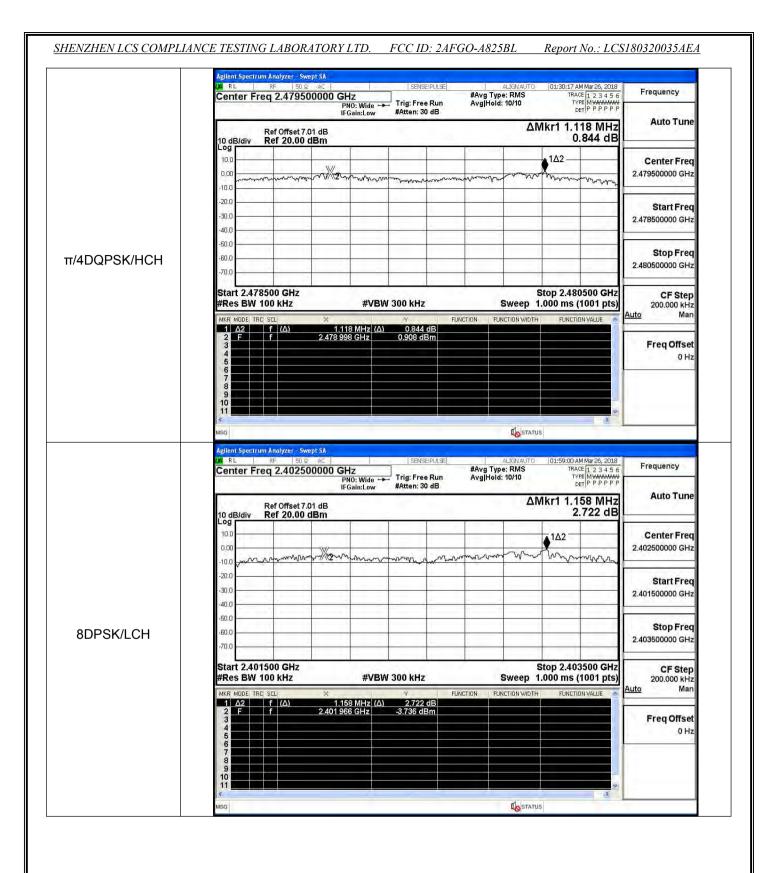
A.3 Carrier Frequency Separation

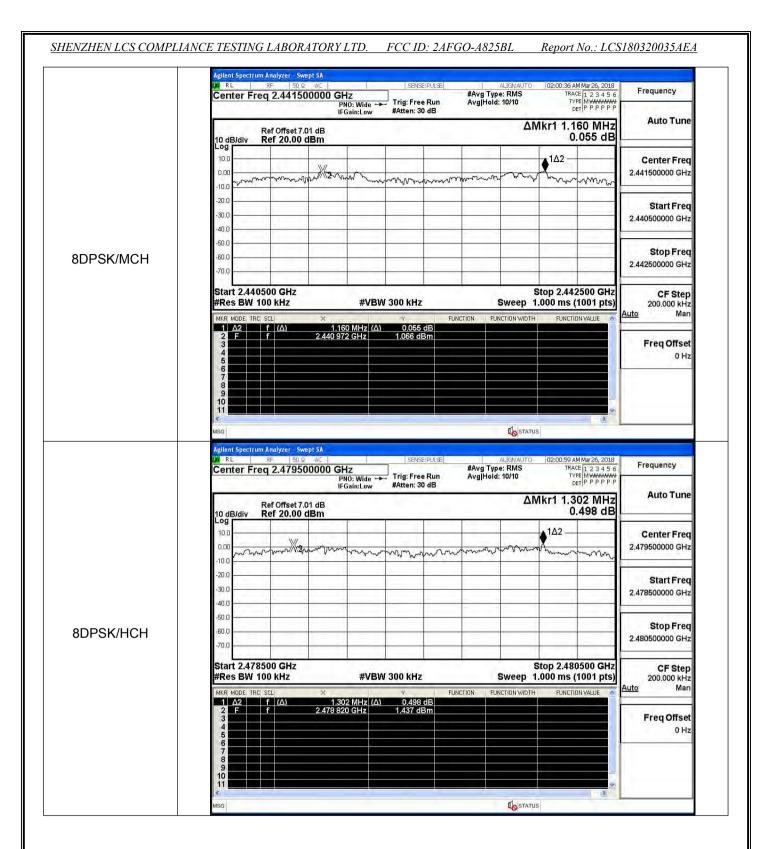
Mode	Channel.	Carrier Frequency Separation [MHz]	Limit [MHz]	Verdict
	LCH	1.056	0.634	PASS
GFSK	MCH	1.118	0.629	PASS
	HCH	1.020	0.629	PASS
	LCH	1.000	0.839	PASS
π/4DQPSK	MCH	0.972	1.229	PASS
	HCH	1.118	0.819	PASS
	LCH	1.158	0.772	PASS
8DPSK	MCH	1.160	0.773	PASS
	HCH	1.302	0.84	PASS





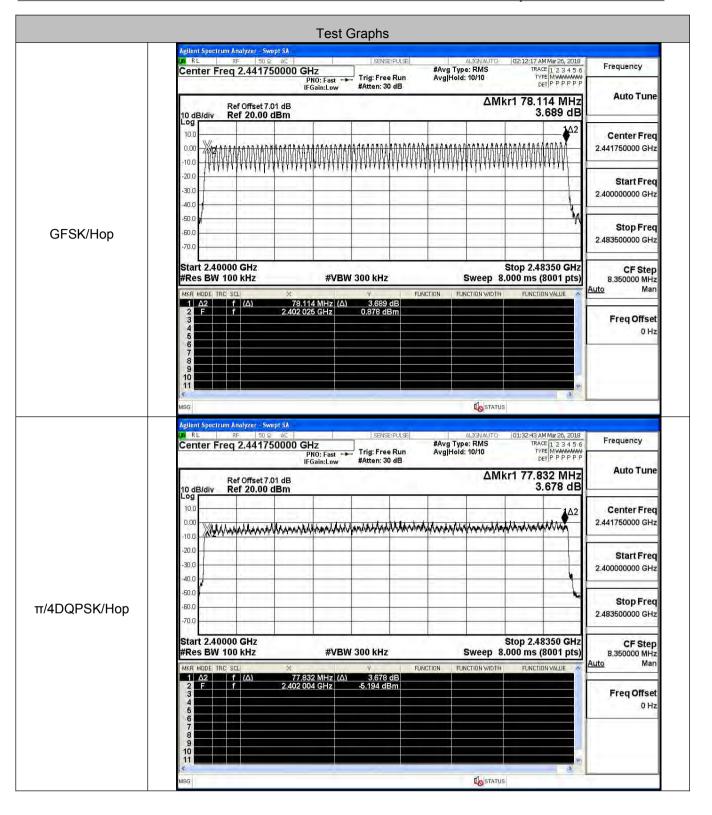






A.4 Hopping Channel Number

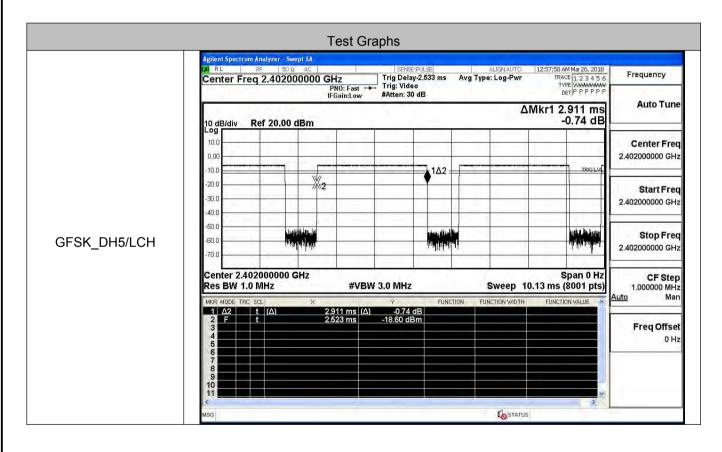
Mode	Channel.	Number of Hopping Channel [N]	Limit [N]	Verdict
GFSK	Нор	79	>=15	PASS
π/4DQPSK	Нор	79	>=15	PASS
8DPSK	Нор	79	>=15	PASS



SHENZHEN LCS COMPLIANCE TESTING LABORATORY LTD. FCC ID: 2AFGO-A825BL Report No.: LCS180320035AEA Agilent Spectrum Analyzer - Swept SA 02:03:26 AM Mar 26, 2018 TRACE 1 2 3 4 5 6 TYPE M WWWWWWW DET P P P P P P #Avg Type: RMS Avg|Hold: 10/10 Frequency **Auto Tune** ΔMkr1 77.895 MHz 6.748 dB Ref Offset 7.01 dB Ref 20.00 dBm 10 dB/div 10.0 Center Freq 2.441750000 GHz n.no -10.0 -20.0 Start Freq -30.0 2.400000000 GHz -40.0 -50.0 Stop Freq -60.0 8DPSK/Hop 2.483500000 GHz Stop 2.48350 GHz Start 2.40000 GHz CF Step 8,350000 MHz Sweep 8.000 ms (8001 pts) #Res BW 100 kHz **#VBW 300 kHz** Auto FUNCTION 77.895 MHz (Δ) 6.748 dB 2.402 077 GHz -5.926 dBm Freq Offset 0 Hz STATUS

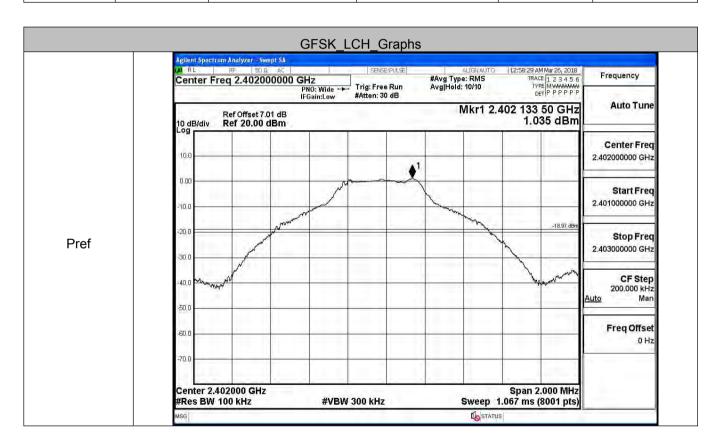
A.5 Dwell Time

Mode	Packet	Channel	Burst Width [ms/hop/ch]	Total Hops[hop*ch]	Dwell Time[s]	Limit [s]	Verdict
	DH5	LCH	2.91	106.7	0.31	0.4	PASS
GFSK	DH5	MCH	2.91	106.7	0.31	0.4	PASS
	DH5	HCH	2.91	106.7	0.31	0.4	PASS
	2DH5	LCH	2.91	106.7	0.312	0.4	PASS
π/4DQPSK	2DH5	MCH	2.91	106.7	0.312	0.4	PASS
	2DH5	HCH	2.91	106.7	0.312	0.4	PASS
	3DH5	LCH	2.91	106.7	0.312	0.4	PASS
8DPSK	3DH5	MCH	2.91	106.7	0.312	0.4	PASS
	3DH5	НСН	2.91	106.7	0.312	0.4	PASS



A.6 RF Conducted Spurious Emissions

Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
	LCH	1.035	-45.549	-18.965	PASS
GFSK	MCH	3.489	-45.080	-16.511	PASS
	HCH	4.413	-45.281	-15.587	PASS
	LCH	-2.594	-45.832	-22.594	PASS
π/4DQPSK	MCH	0.619	-45.868	-19.381	PASS
	HCH	2.091	-44.394	-17.909	PASS
	LCH	-2.466	-44.808	-22.466	PASS
8DPSK	MCH	0.962	-40.806	-19.038	PASS
	HCH	2.235	-44.352	-17.765	PASS



SHENZHEN LCS COMPLIANCE TESTING LABORATORY LTD. FCC ID: 2AFGO-A825BL Report No.: LCS180320035AEA Agilent Spectrum Analyzer - Swept SA Od RL RF 50 \(\Omega \) AC SENSE-PULSE Center Freq 12.515000000 GHz PNO: Fast IFGain:Low #Atten: 30 dB 12:58:41 AM Mar 26, 2018 TRACE 1 2 3 4 5 6 TYPE M WANNAMAN DET P P P P P P #Avg Type: RMS Avg|Hold: 2/10 SENSE/PULSE Frequency Mkr2 2.558 GHz -45.549 dBm **Auto Tune** Ref Offset 7.01 dB Ref 20.00 dBm 10 dB/div Log Center Freq 12.515000000 GHz 0.00 Start Freq 30.000000 MHz -10.0 -18,97 dB -20.0 Stop Freq Puw 25.000000000 GHz CF Step 2.497000000 GHz <u>Auto</u> Man 40.0 Auto -50.0 Freq Offset

#VBW 300 kHz

0 Hz

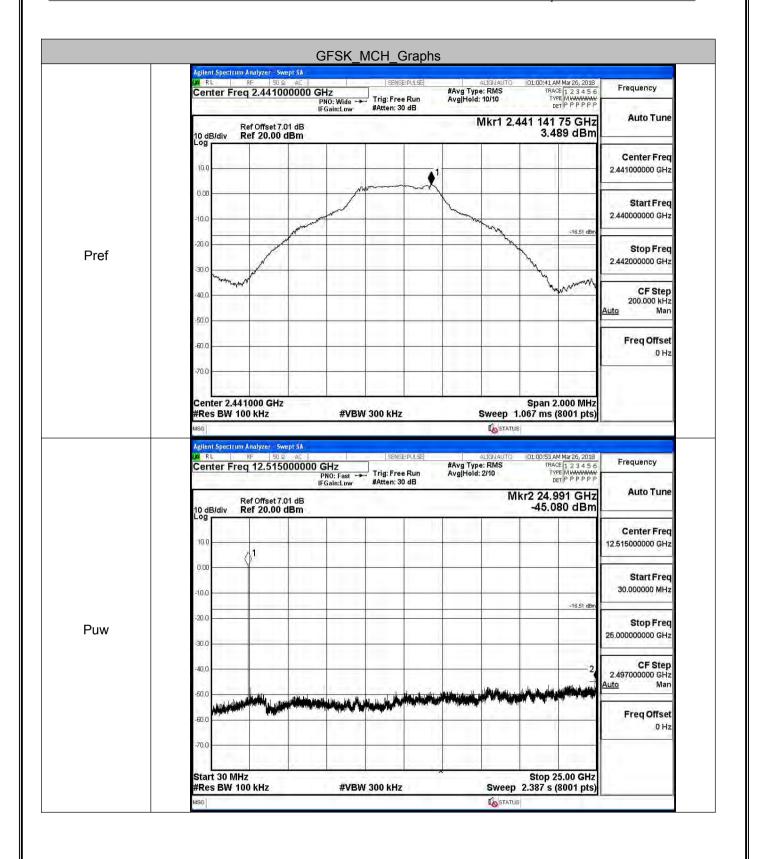
Stop 25.00 GHz Sweep 2.387 s (8001 pts)

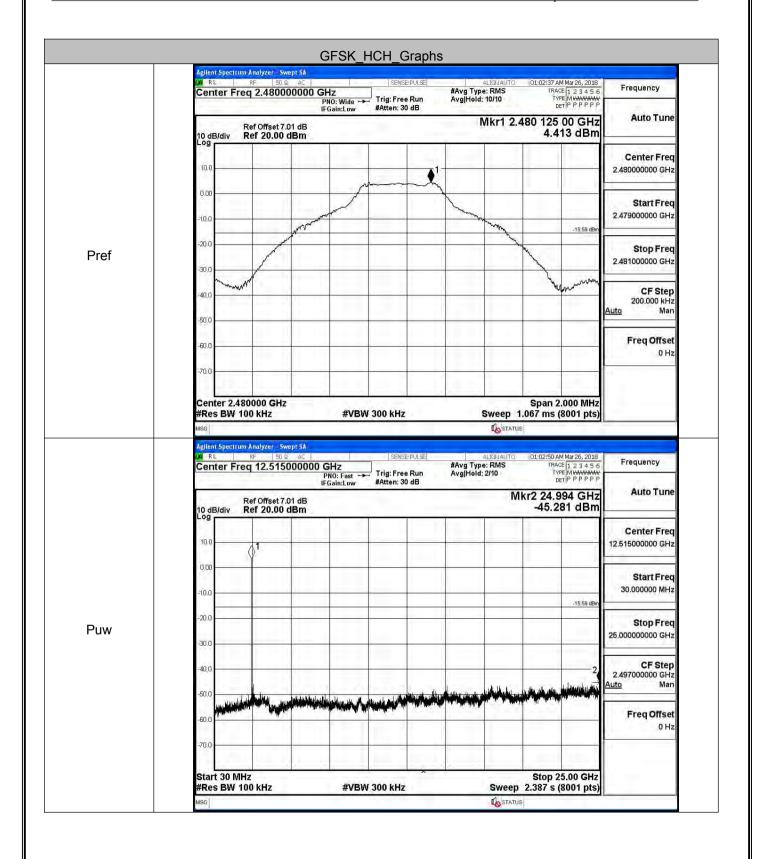
STATUS

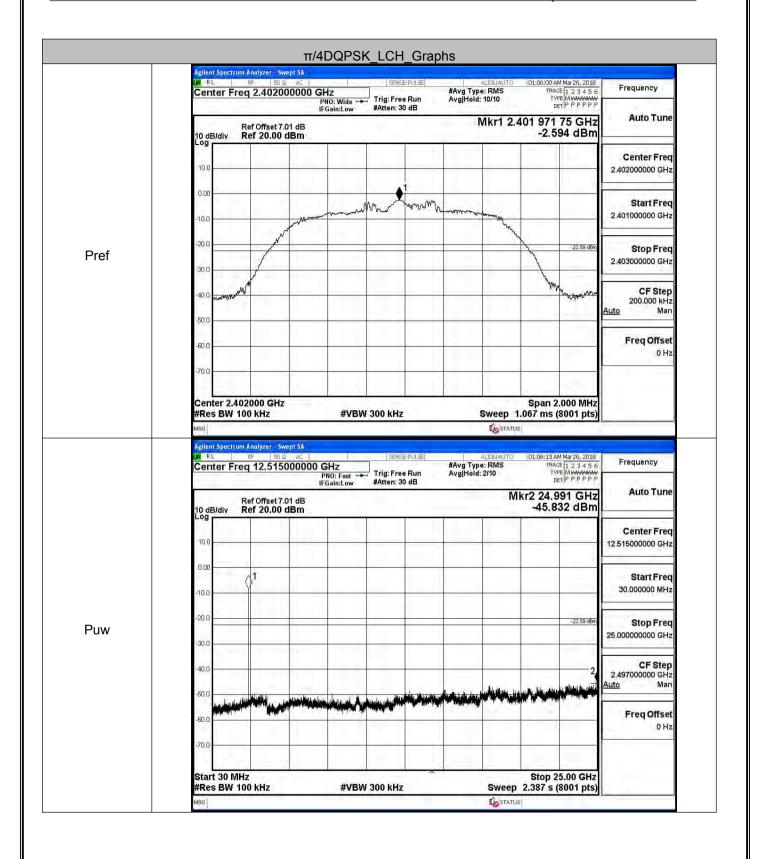
-60.0

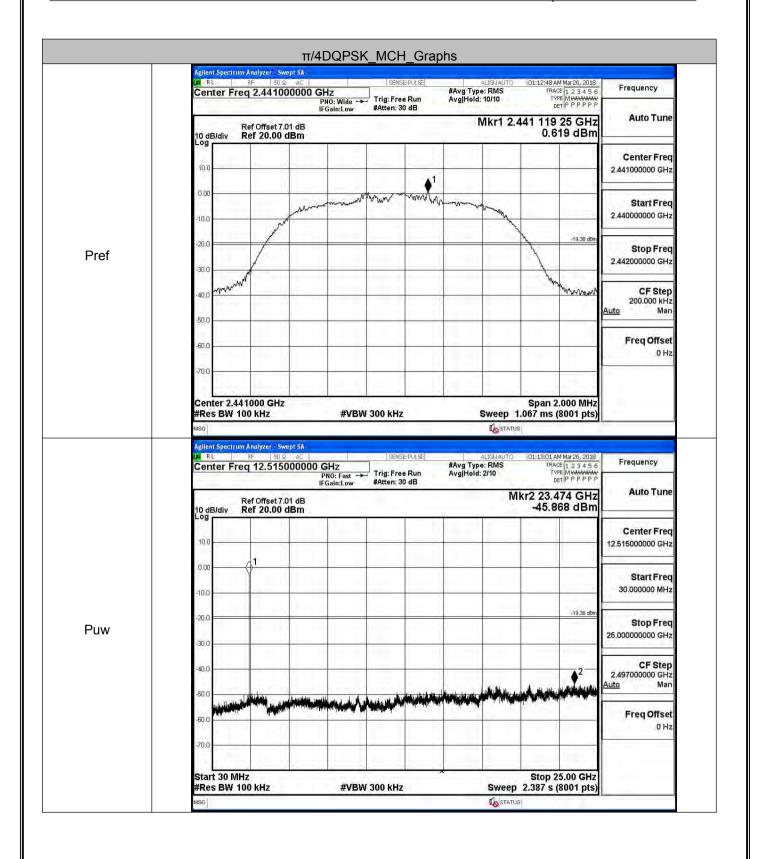
70.0

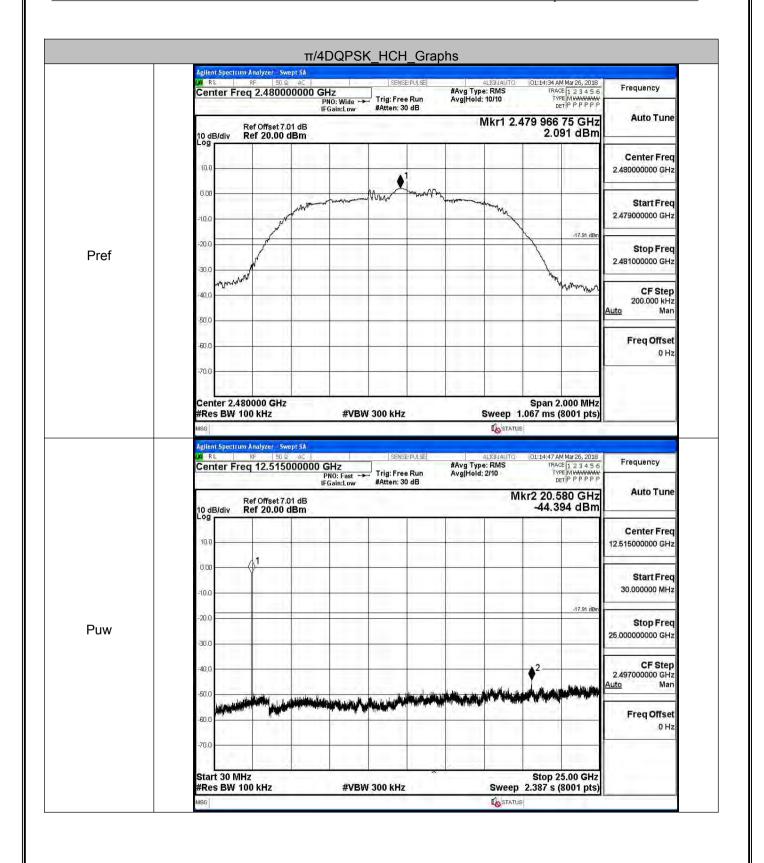
Start 30 MHz #Res BW 100 kHz

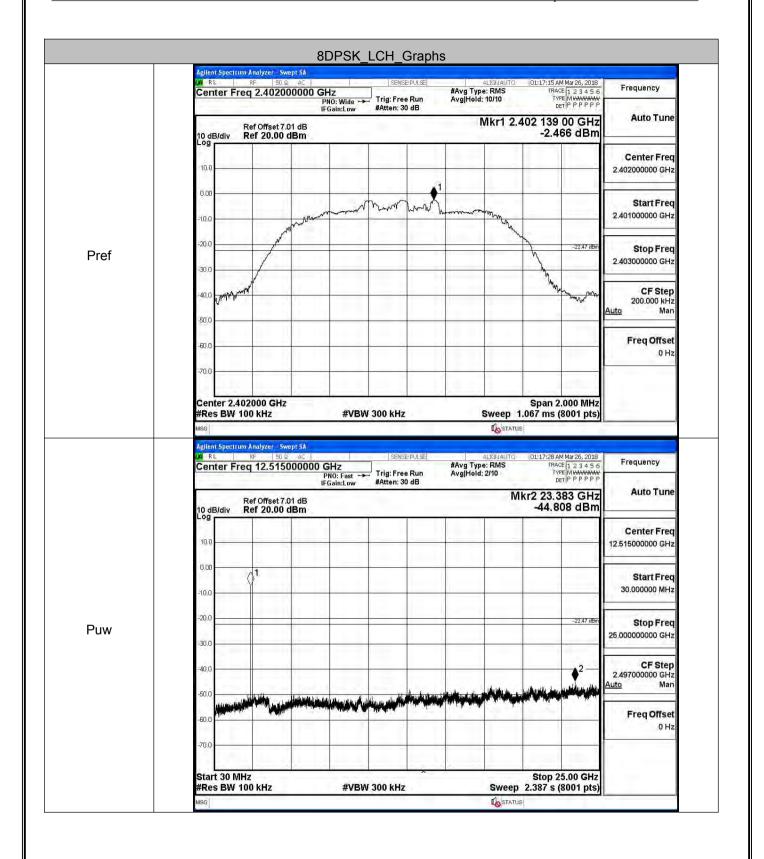


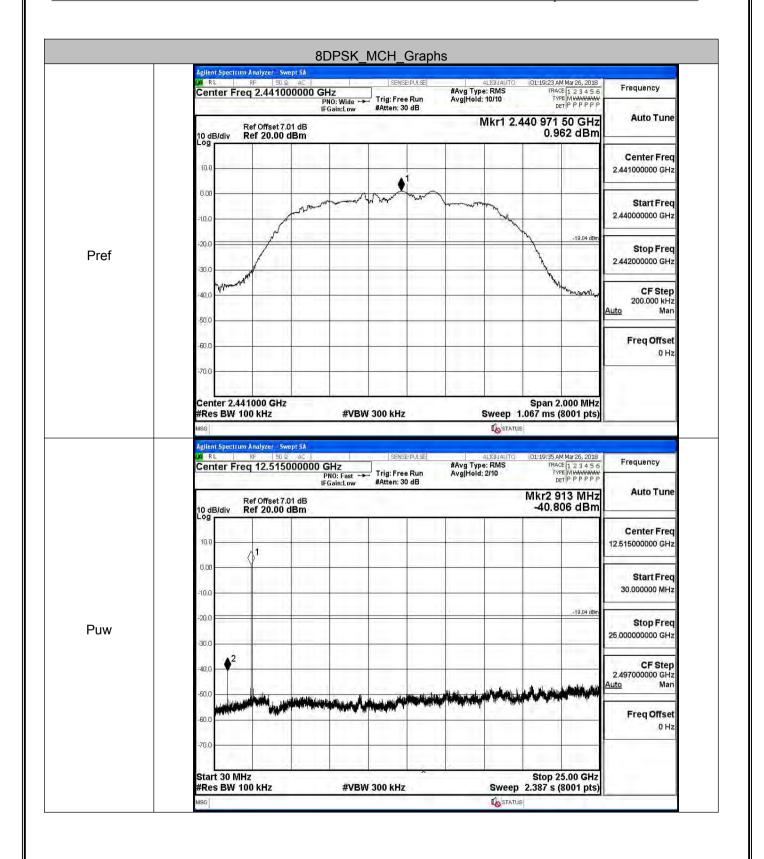


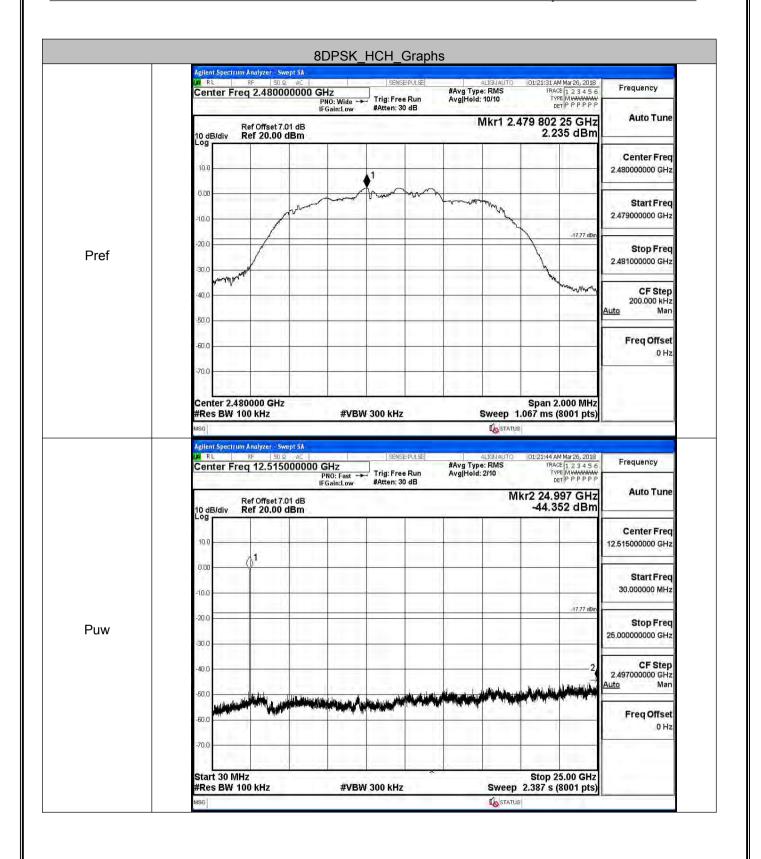






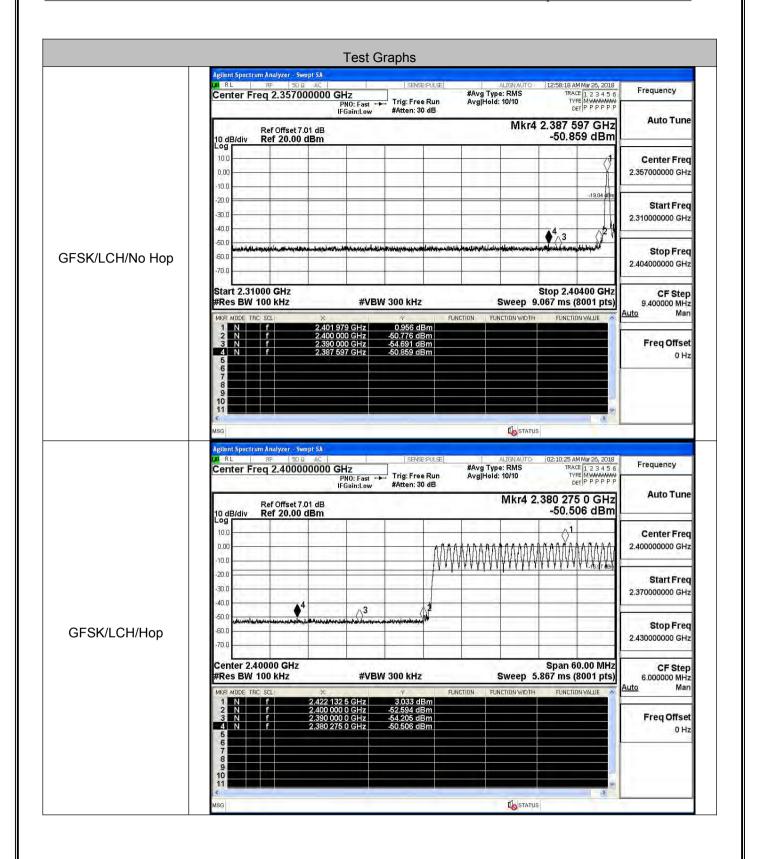






A.7 Band-edge for RF Conducted Emissions

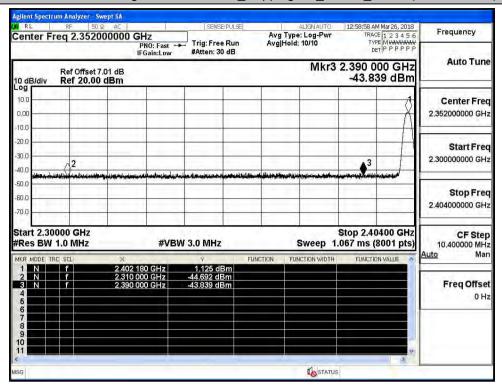
Mode	Channel	Carrier Frequency [MHz]	Carrier Power [dBm]	Frequency Hopping	Max Spurious Level [dBm]	Limit [dBm]	Verdict
		0.400	0.956	Off	-50.859	-19.04	PASS
	LCH	2402	3.033	On	-50.506	-16.97	PASS
GFSK	GFSK HCH		4.461	Off	-51.084	-15.54	PASS
		2480	4.343	On	-48.309	-15.66	PASS
		2402	-4.549	Off	-51.658	-24.55	PASS
	LCH		0.180	On	-50.589	-19.82	PASS
π/4DQPSK	π/4DQPSK	2480	2.110	Off	-50.544	-17.89	PASS
			1.961	On	-49.914	-18.04	PASS
			-2.479	Off	-50.432	-22.48	PASS
	LCH	2402	0.379	On	-50.091	-19.62	PASS
8DPSK			2.264	Off	-50.141	-17.74	PASS
	HCH	2480	2.009	On	-50.405	-17.99	PASS



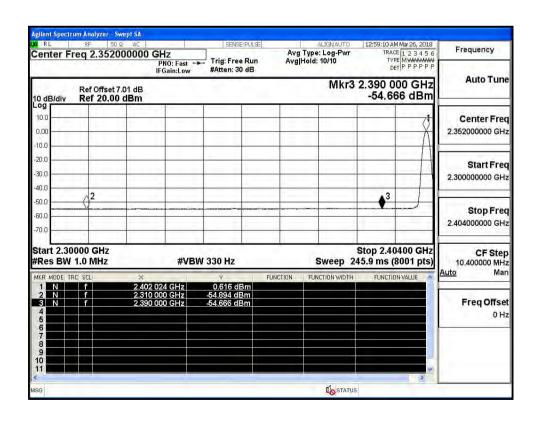
A.8 Restrict-band band-edge measurements

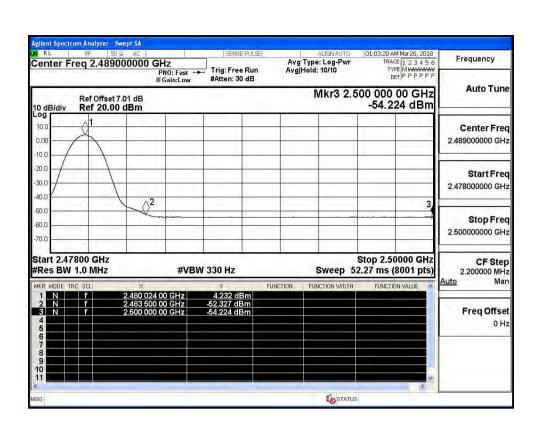
Test Mode	Hopping	Freq.	Power [dBm]	Gain	Ground Factor	E [dBuV/m]	Detector	Limit [dBuV/m]	Verdict
GFSK	Off	2310.0	-44.69	2.0	0	52.57	PEAK	74	PASS
	Off	2310.0	-54.89	2.0	0	42.37	AV	54	PASS
	Off	2390.0	-43.84	2.0	0	53.42	PEAK	74	PASS
	Off	2390.0	-54.67	2.0	0	42.59	AV	54	PASS
	Off	2483.5	-41.07	2.0	0	56.19	PEAK	74	PASS
	Off	2483.5	-52.33	2.0	0	44.93	AV	54	PASS
	Off	2500.0	-43.53	2.0	0	53.73	PEAK	74	PASS
	Off	2500.0	-54.22	2.0	0	43.04	AV	54	PASS
π/4DQPSK	Off	2310.0	-44.16	2.0	0	53.1	PEAK	74	PASS
	Off	2310.0	-54.83	2.0	0	42.43	AV	54	PASS
	Off	2390.0	-44.50	2.0	0	52.76	PEAK	74	PASS
	Off	2390.0	-54.63	2.0	0	42.63	AV	54	PASS
	Off	2483.5	-42.09	2.0	0	55.17	PEAK	74	PASS
	Off	2483.5	-53.60	2.0	0	43.66	AV	54	PASS
	Off	2500.0	-43.50	2.0	0	53.76	PEAK	74	PASS
	Off	2500.0	-54.20	2.0	0	43.06	AV	54	PASS
8DPSK	Off	2310.0	-44.20	2.0	0	53.06	PEAK	74	PASS
	Off	2310.0	-54.90	2.0	0	42.36	AV	54	PASS
	Off	2390.0	-43.93	2.0	0	53.33	PEAK	74	PASS
	Off	2390.0	-54.55	2.0	0	42.71	AV	54	PASS
	Off	2483.5	-43.85	2.0	0	53.41	PEAK	74	PASS
	Off	2483.5	-53.55	2.0	0	43.71	AV	54	PASS
	Off	2500.0	-44.39	2.0	0	52.87	PEAK	74	PASS
	Off	2500.0	-54.16	2.0	0	43.1	AV	54	PASS



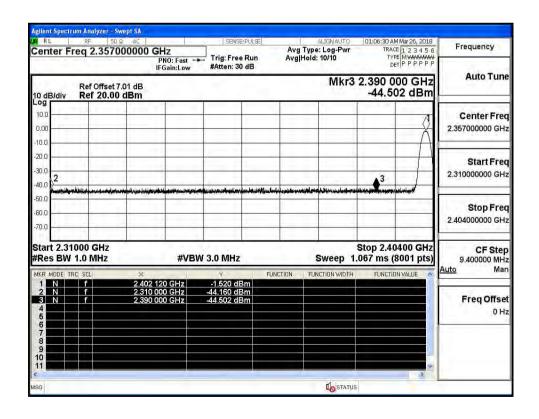


Restrict-band band-edge measurements_Hopping Off_ GFSK_Average (Low Channel)

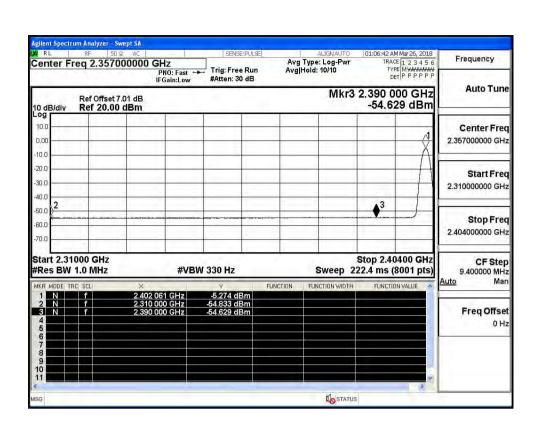




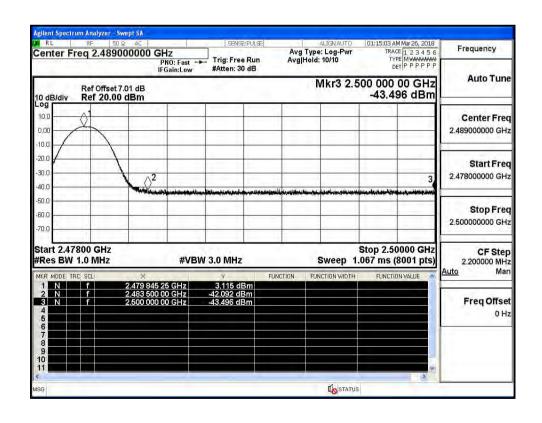
Restrict-band band-edge measurements_Hopping Off_π/4-DQPSK_PEAK (Low Channel)



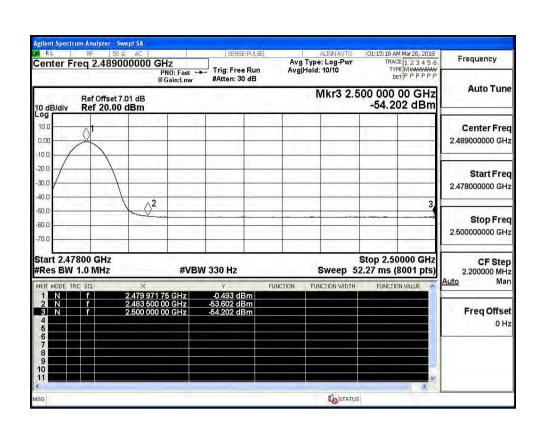
Restrict-band band-edge measurements_Hopping Off_π/4-DQPSK_Average (Low Channel)



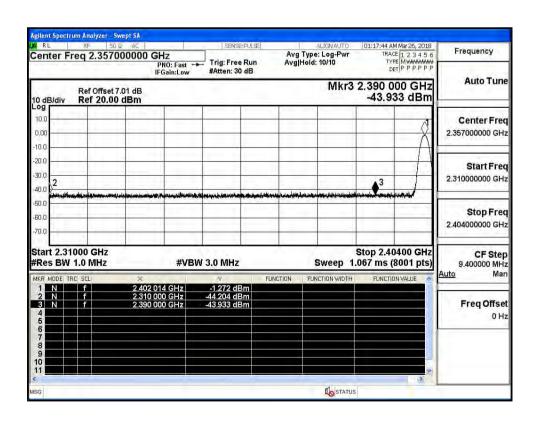
Restrict-band band-edge measurements_Hopping Off_π/4-DQPSK_PEAK (High Channel)



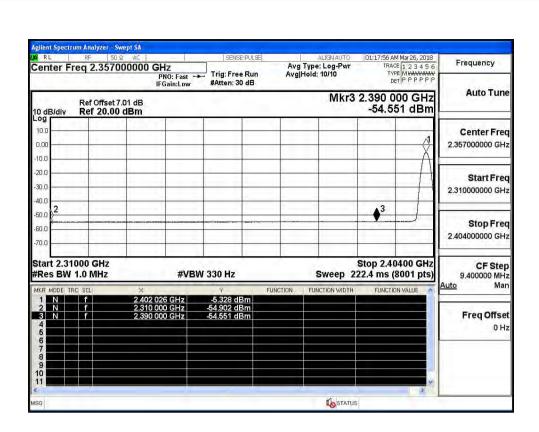
Restrict-band band-edge measurements_Hopping Off_π/4-DQPSK_Average (High Channel)



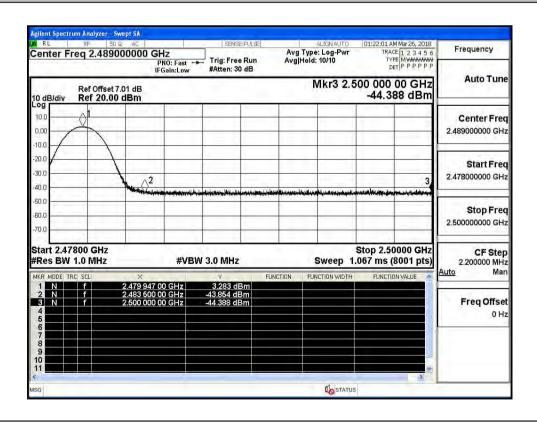
Restrict-band band-edge measurements_Hopping Off_8DPSK_PEAK (Low Channel)



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)

