Appendix A

RF Test Data for BT V4.0 (BDR/EDR) (Conducted Measurement)

Product Name: All-in-One PC

Trade Mark:

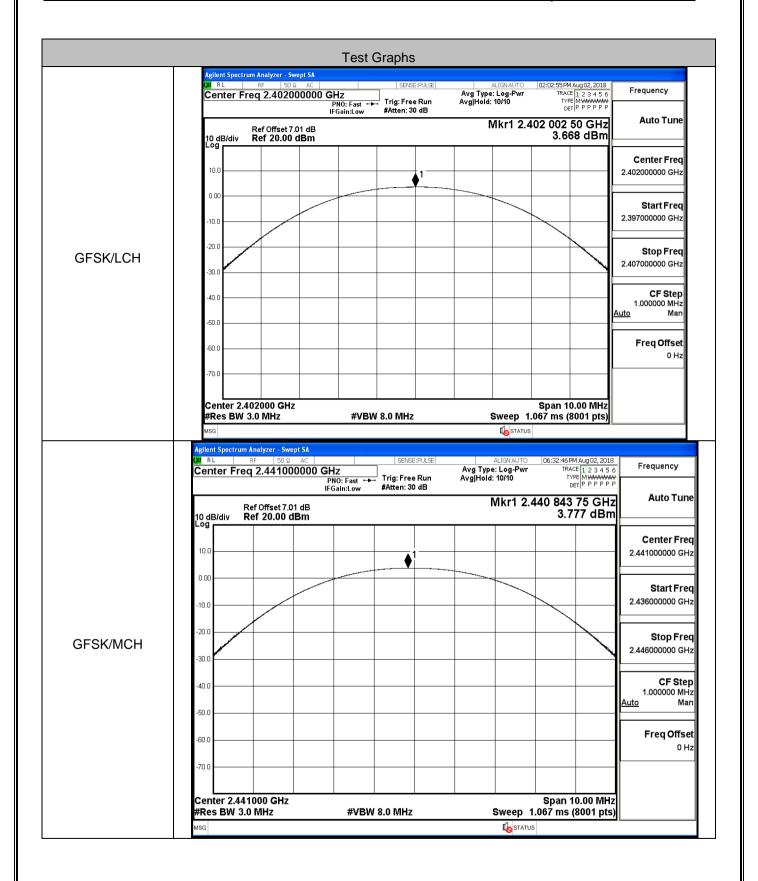
Test Model: EV-AIO-185-1

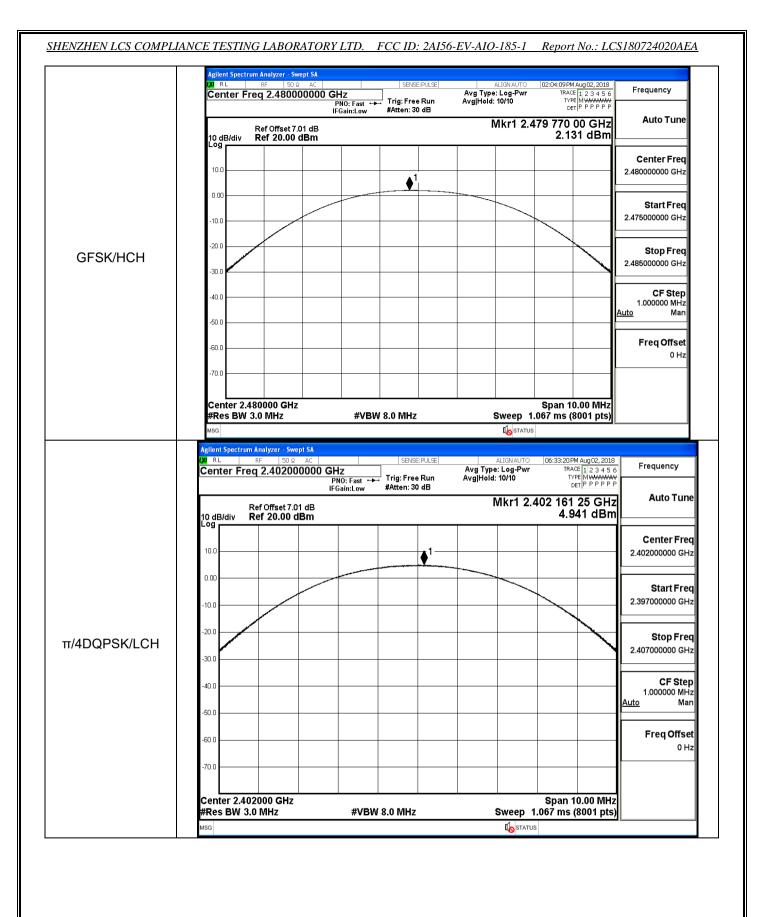
Environmental Conditions

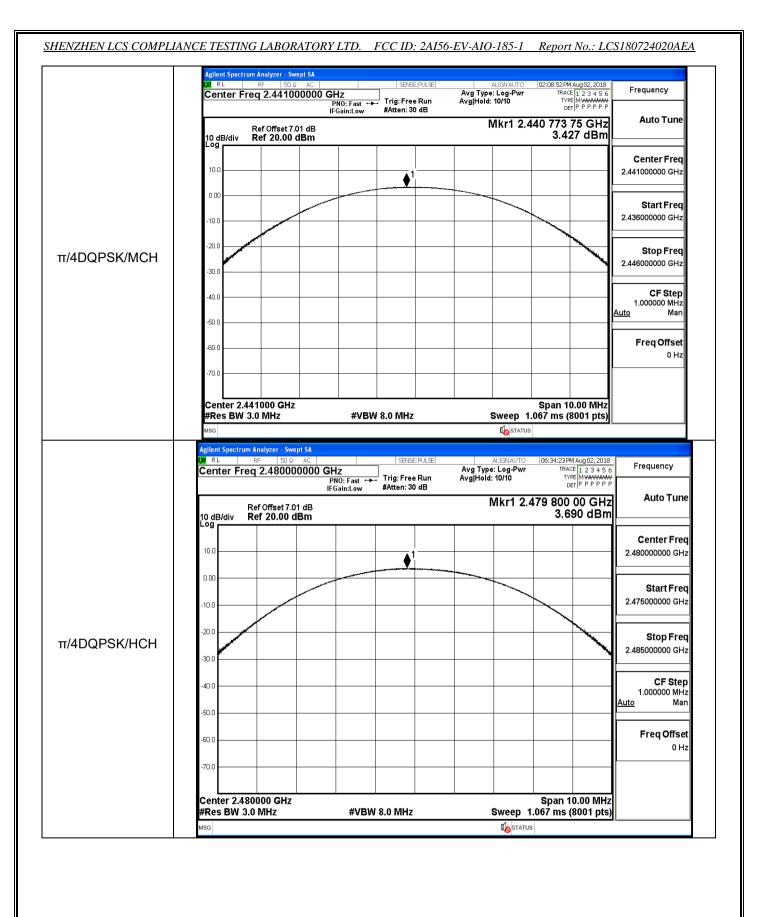
Temperature:	24.6 ° C
Relative Humidity:	52.4%
ATM Pressure:	100.0 kPa
Test Engineer:	Wilson.Hong
Supervised by:	Jayden.Zhuo

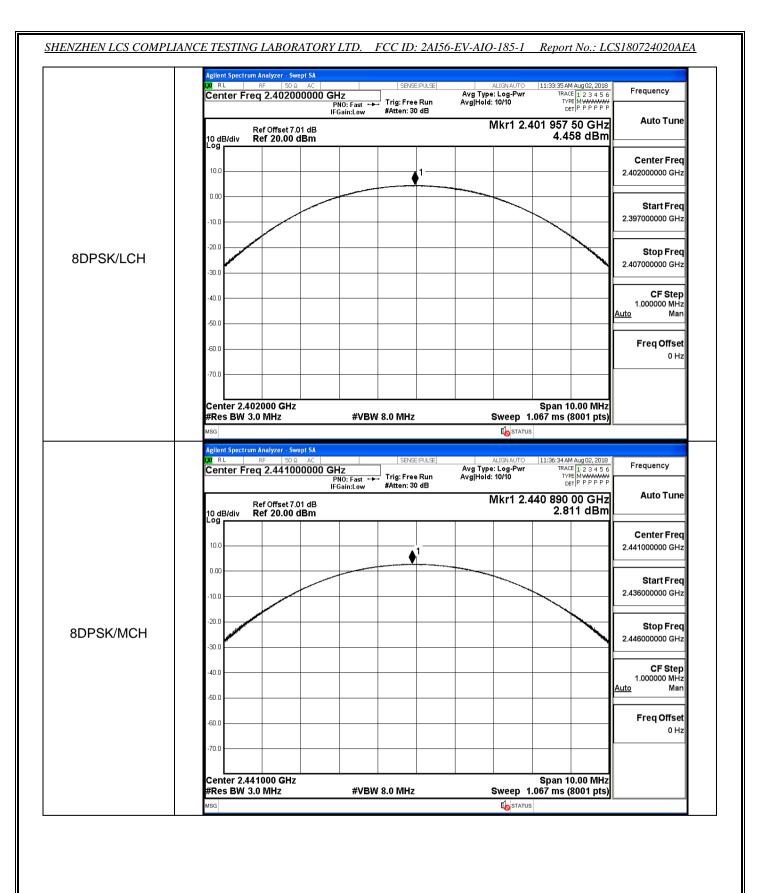
A.1 Maximum Conducted Peak Output Power

Mode	Channel.	Maximum Peak Output Power [dBm]	Limit [dBm]	Verdict
	LCH	3.668	21	PASS
GFSK	MCH	3.777	21	PASS
	НСН	2.131	21	PASS
	LCH	4.941	21	PASS
π/4DQPSK	MCH	3.427	21	PASS
	HCH	3.690	21	PASS
	LCH	4.458	21	PASS
8DPSK	MCH	2.811	21	PASS
	HCH	3.637	21	PASS





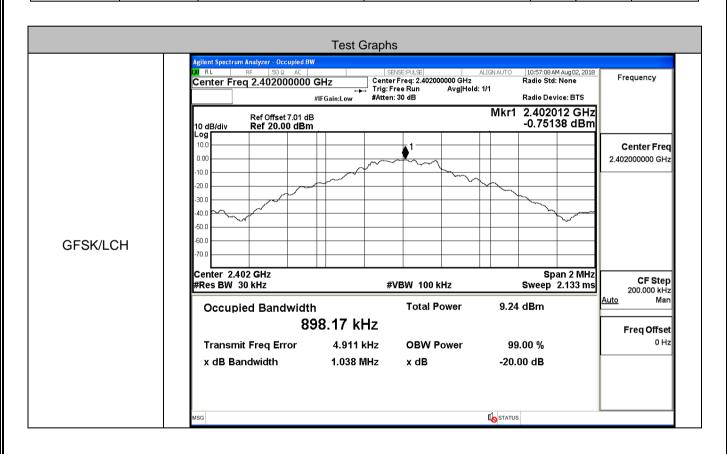


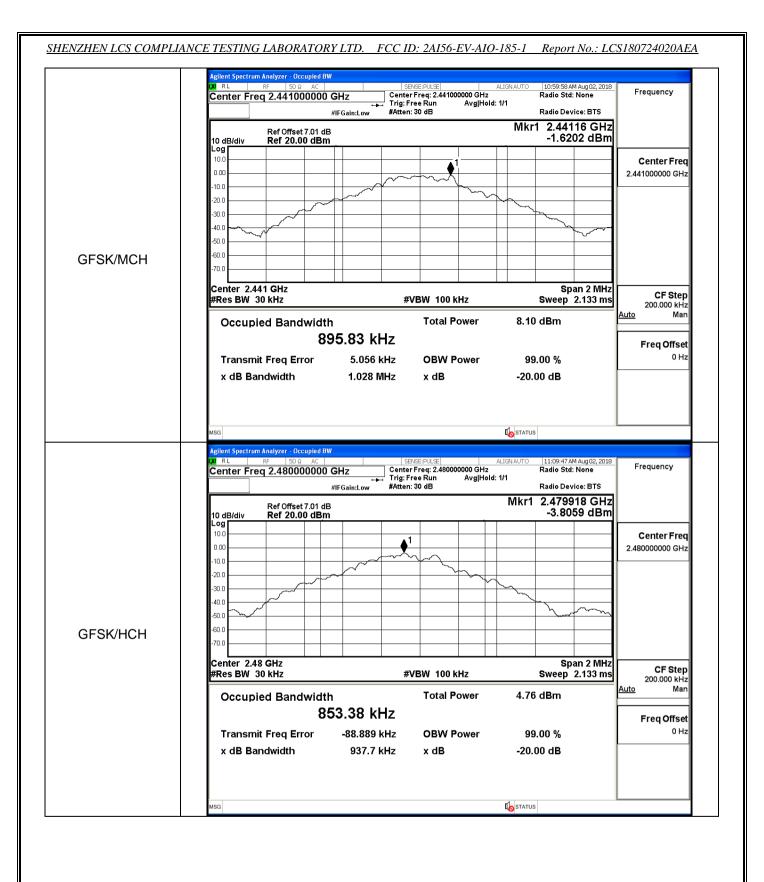


SHENZHEN LCS COMPLIANCE TESTING LABORATORY LTD. FCC ID: 2AI56-EV-AIO-185-1 Report No.: LCS180724020AEA Agilent Spectrum Analyzer - Swept SA TO 11:39:12 AM Aug 02, 2018 WY TRACE 1 2 3 4 5 6 TYPE M WWWWWWW DET P P P P P P Avg Type: Log-Pwr Avg|Hold: 10/10 Frequency Mkr1 2.479 941 25 GHz 3.637 dBm Auto Tune Ref Offset 7.01 dB Ref 20.00 dBm 10 dB/div Log Center Freq 10.0 2.480000000 GHz 0.00 Start Freq 2.475000000 GHz -10.0 -20.0 Stop Freq 8DPSK/HCH 2.485000000 GHz CF Step 1.000000 MHz Man 40.0 <u>Auto</u> -50.0 Freq Offset -60.0 0 Hz -70.0 Center 2.480000 GHz #Res BW 3.0 MHz Span 10.00 MHz Sweep 1.067 ms (8001 pts) **#VBW 8.0 MHz** STATUS

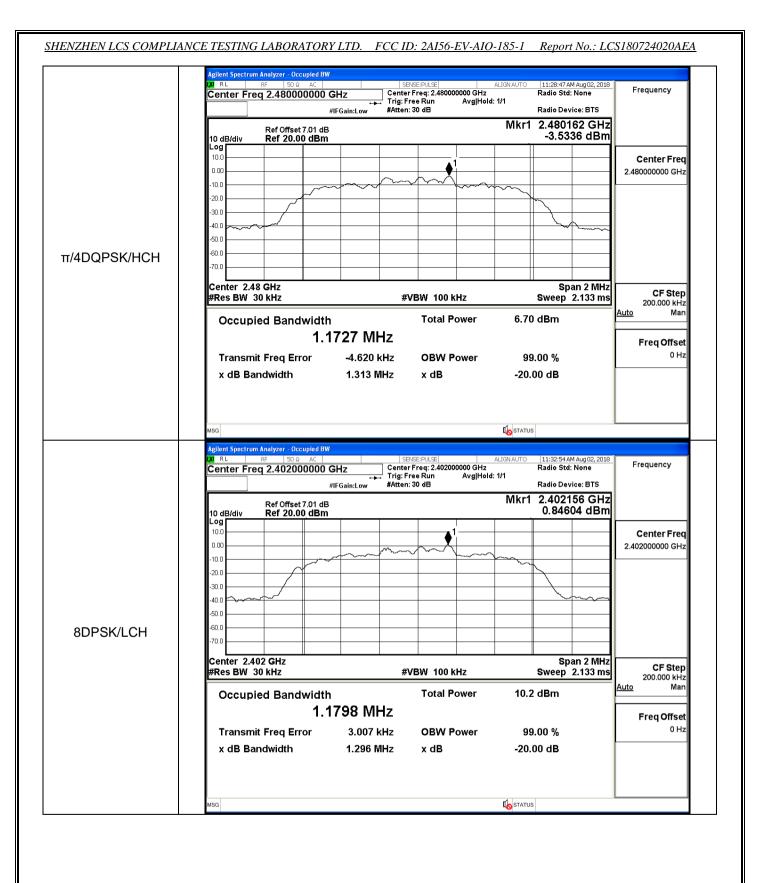
A.2 99% and 20dB Bandwidth

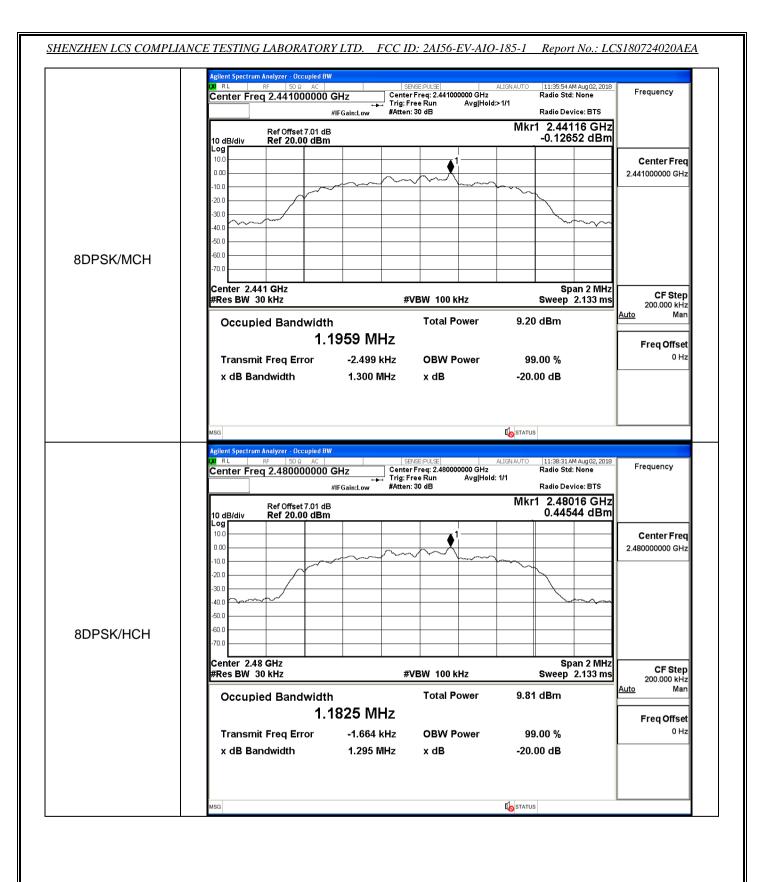
Mode	Channel.	99% Bandwidth [MHz]	20dB Bandwidth [MHz]	Limit [MHz]	Verdict
	LCH	0.89817	1.038	Not Specified	PASS
GFSK	MCH	0.89583	1.028	Not Specified	PASS
	HCH	0.85338	0.9377	Not Specified	PASS
	LCH	1.1695	1.291	Not Specified	PASS
π/4DQPSK	MCH	1.1839	1.315	Not Specified	PASS
	HCH	1.1727	1.313	Not Specified	PASS
	LCH	1.1798	1.296	Not Specified	PASS
8DPSK	MCH	1.1959	1.300	Not Specified	PASS
	HCH	1.1825	1.295	Not Specified	PASS





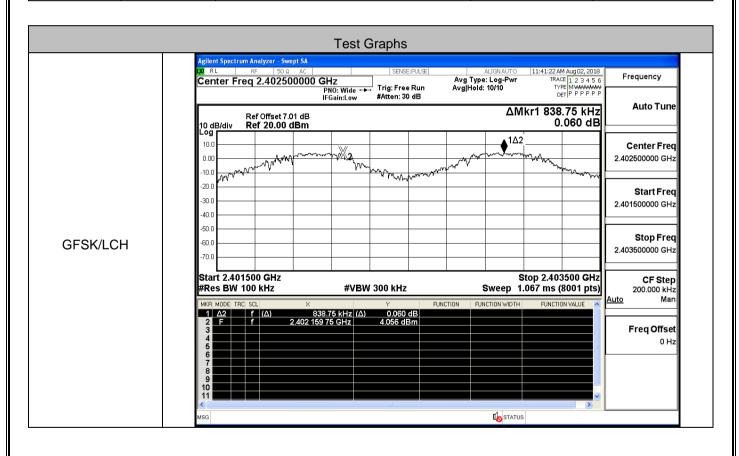
SHENZHEN LCS COMPLIANCE TESTING LABORATORY LTD. FCC ID: 2AI56-EV-AIO-185-1 Report No.: LCS180724020AEA Agilent Spectrum Analyzer - Occupied BW Center Freq: 2.402000000 GHz Trig: Free Run Avg|Hold #Atten: 30 dB 11:21:13 AM Aug 02, 2018 Radio Std: None Frequency Center Freq 2.402000000 GHz Avg|Hold:>1/1 Radio Device: BTS Mkr1 2.40216 GHz Ref Offset 7.01 dB Ref 20.00 dBm -4.2097 dBm 10 dB/div 10.0 Center Freq 0.00 2.402000000 GHz -10.0 -20.0 -30.0 -40 C -50.0 -60.0 π/4DQPSK/LCH Center 2.402 GHz Span 2 MHz CF Step #Res BW 30 kHz #VBW 100 kHz Sweep 2.133 ms 200.000 kHz <u>Auto</u> Occupied Bandwidth **Total Power** 5.90 dBm 1.1695 MHz Freq Offset 0 Hz Transmit Freg Error -1.209 kHz **OBW Power** 99.00 % 1.291 MHz x dB Bandwidth x dB -20.00 dB STATUS Agilent Spectrum Analyzer - Occupied BW SENSE:PULSE Center Freq: 2.441000000 GHz Trig: Free Run Avg|Hold#Atten: 30 dB 11:26:28 AM Aug 02, 2018 Radio Std: None Frequency Center Freq 2.441000000 GHz Avg|Hold: 1/1 #IFGain:Low Radio Device: BTS Mkr1 2.44116 GHz Ref Offset 7.01 dB Ref 20.00 dBm -4.8539 dBm 10 dB/div 10.0 Center Freq 0.00 2.441000000 GHz 10.0 -20.0 -30.0 -**4**n r -50.0 -60.0 π/4DQPSK/MCH Center 2.441 GHz Span 2 MHz CF Step 200.000 kHz #Res BW 30 kHz **#VBW 100 kHz** Sweep 2.133 ms <u>Auto</u> Occupied Bandwidth **Total Power** 5.26 dBm 1.1839 MHz Freq Offset 0 Hz Transmit Freq Error -2.256 kHz **OBW Power** 99.00 % 1.315 MHz x dB Bandwidth x dB -20.00 dB STATUS

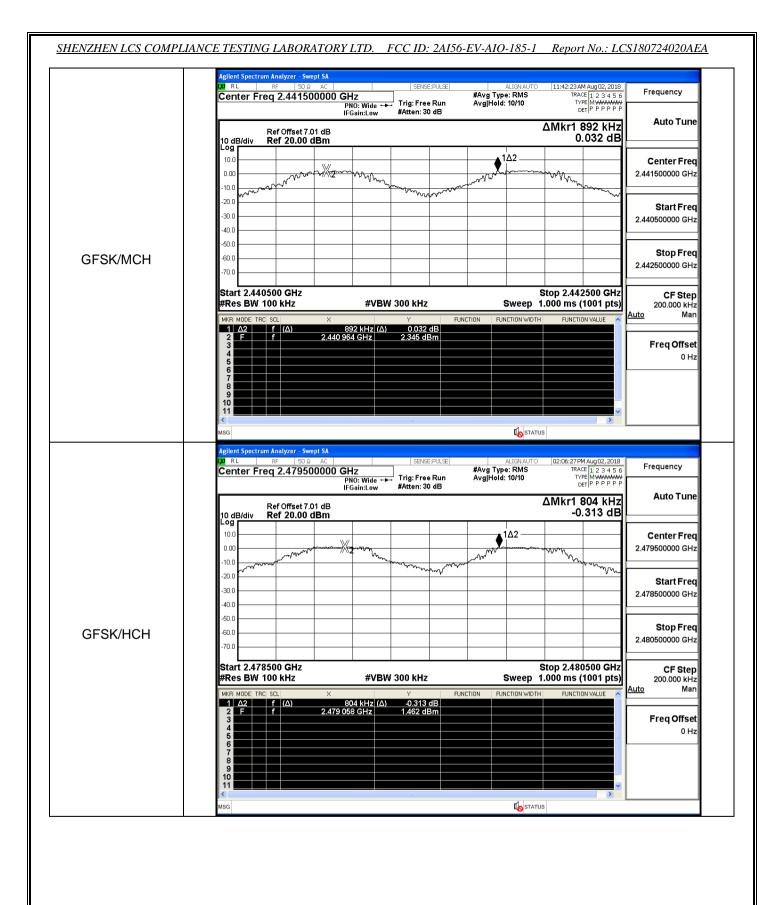


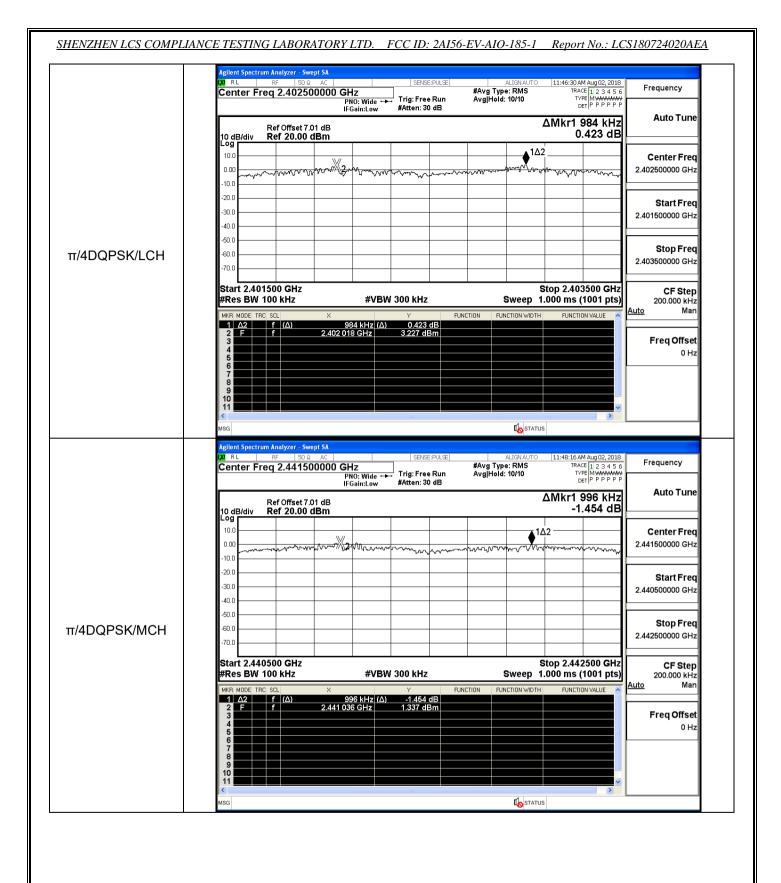


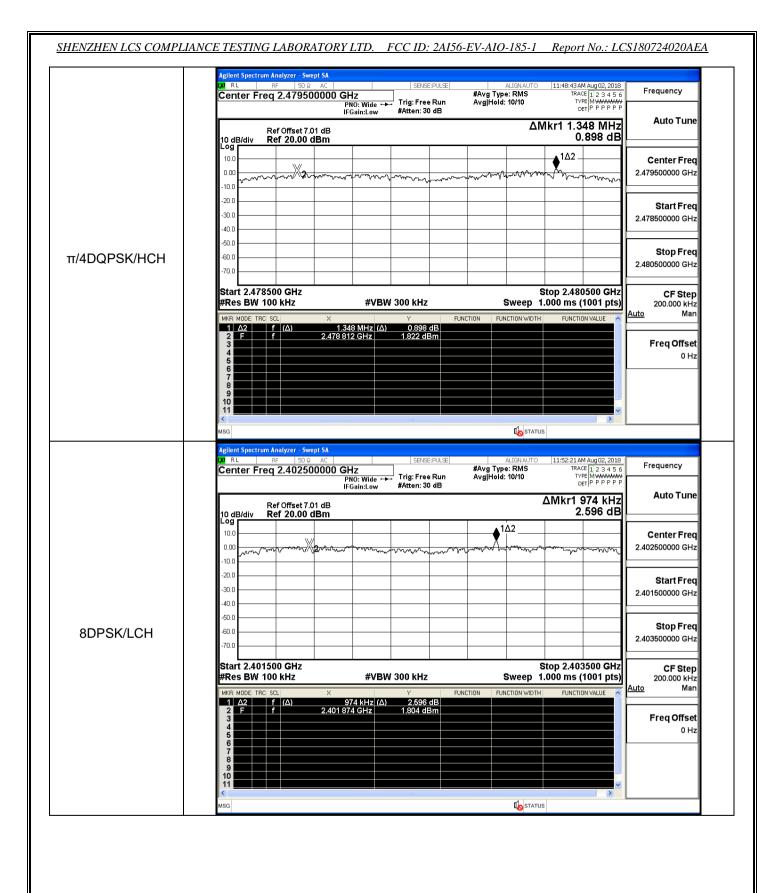
A.3 Carrier Frequency Separation

Mode	Channel.	Carrier Frequency Separation [MHz]	Limit [MHz]	Verdict
	LCH	0.839	0.692	PASS
GFSK	MCH	0.892	0.692	PASS
	HCH	0.804	0.692	PASS
	LCH	0.984	0.877	PASS
π/4DQPSK	MCH	0.996	0.877	PASS
	HCH	1.348	0.877	PASS
	LCH	0.974	0.867	PASS
8DPSK	DPSK MCH 1.160		0.867	PASS
	HCH	0.988	0.867	PASS





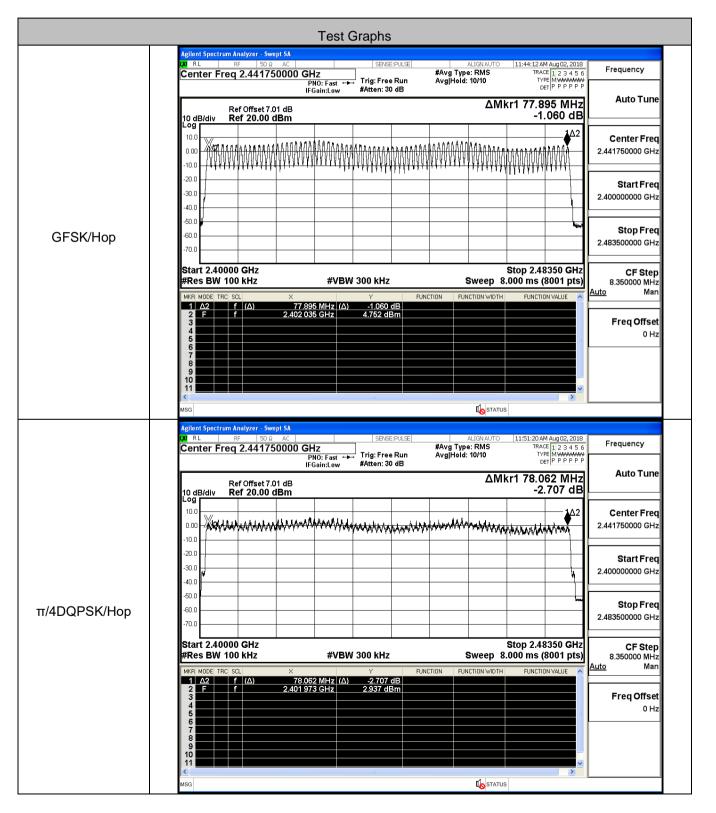


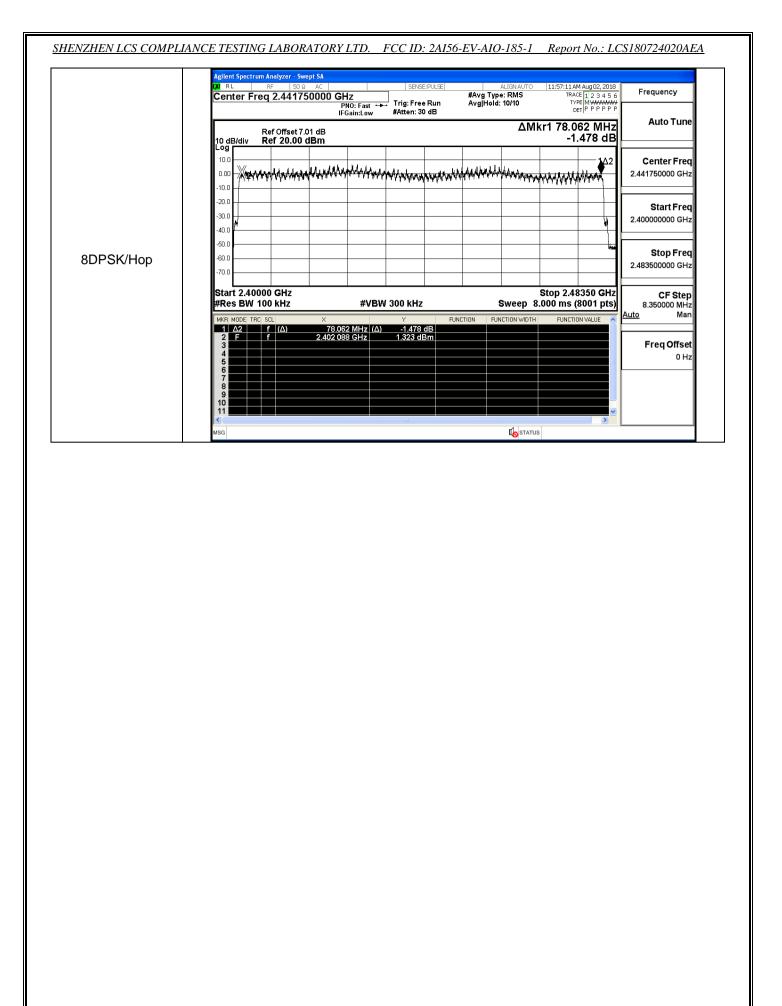




A.4 Hopping Channel Number

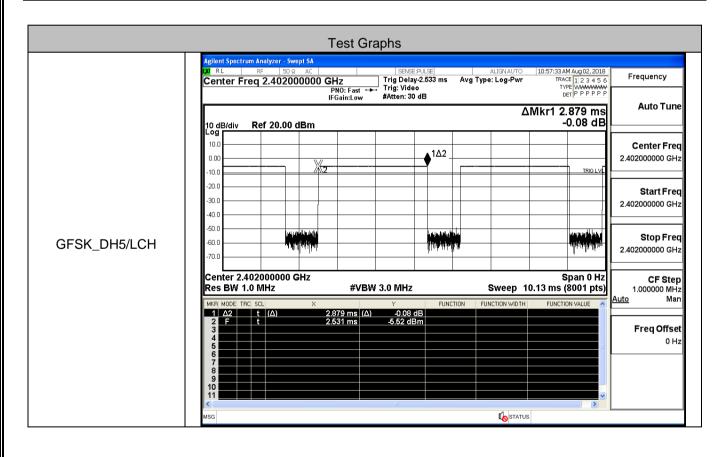
Mode	Channel.	Number of Hopping Channel [N]	Limit [N]	Verdict
GFSK	Нор	79	>=15	PASS
π/4DQPSK	Нор	79	>=15	PASS
8DPSK	Нор	79	>=15	PASS

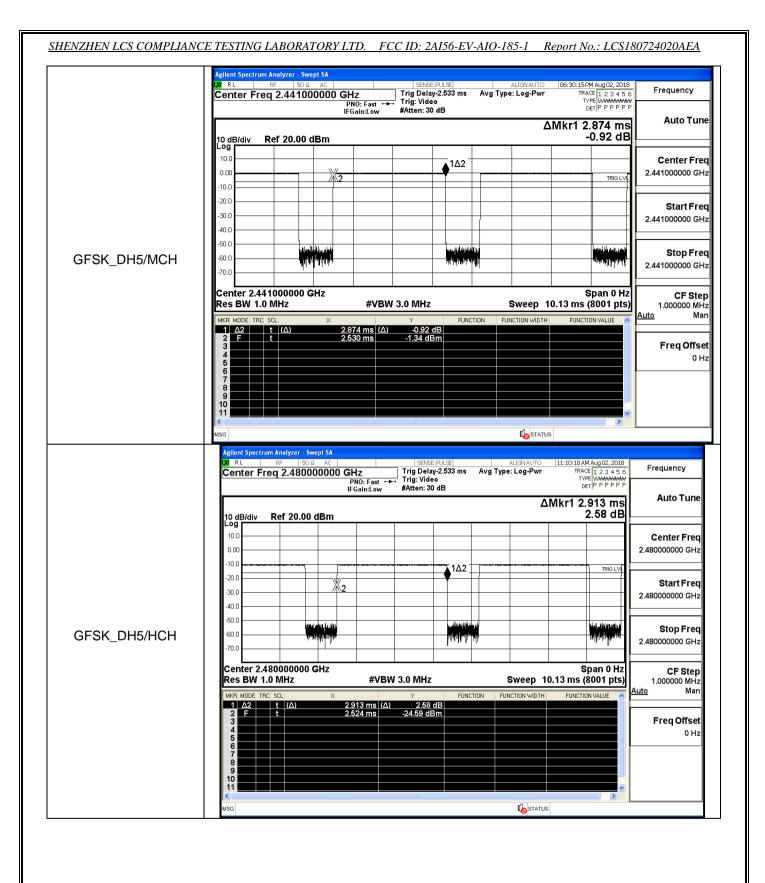


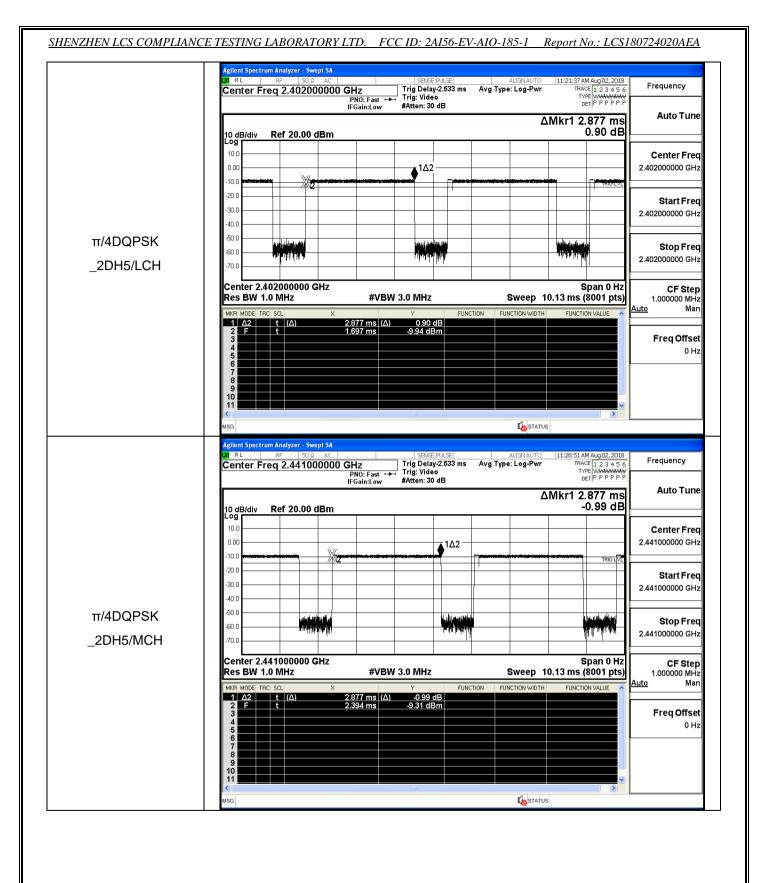


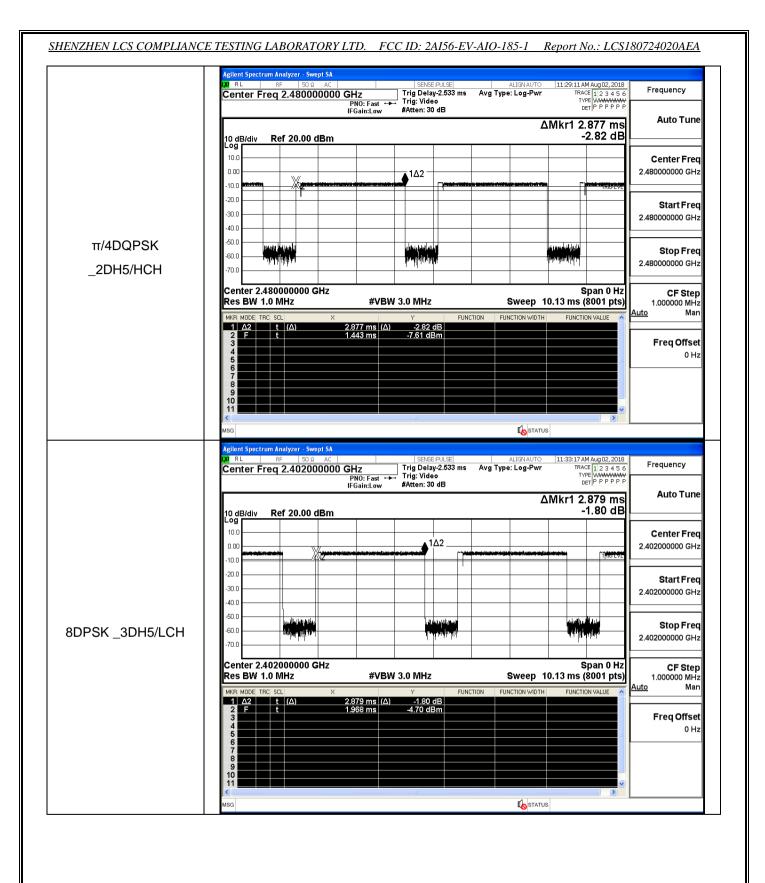
A.5 Dwell Time

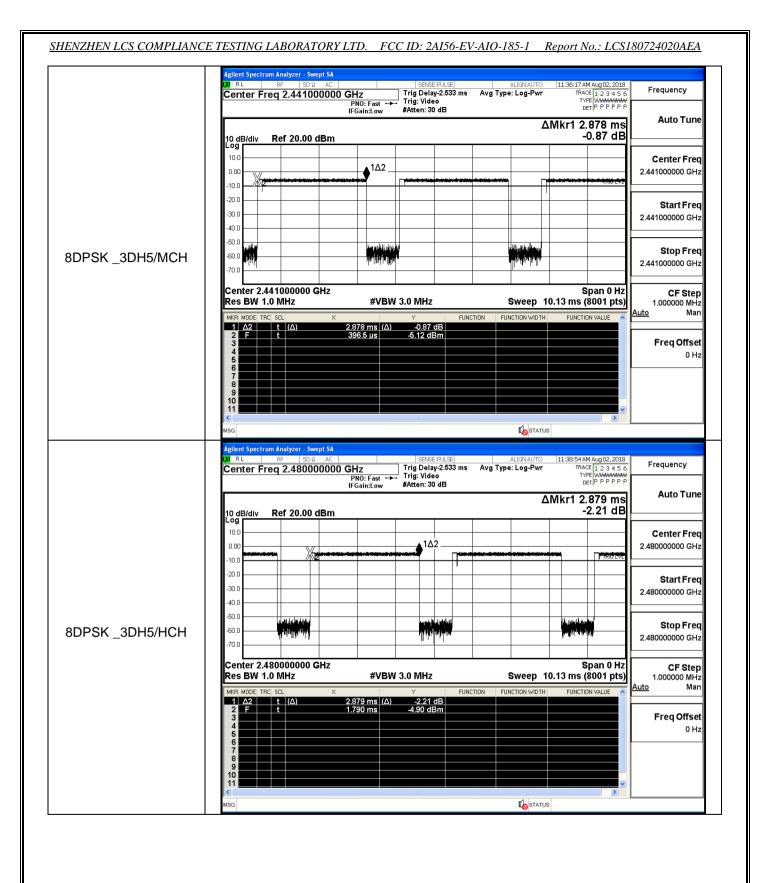
Mode	Packet	Channel	Burst Width [ms/hop/ch]	Total Hops[hop*ch]	Dwell Time[s]	Limit [s]	Verdict
	DH5	LCH	2.88	106.7	0.307	0.4	PASS
GFSK	DH5	MCH	2.88	106.7	0.182	0.4	PASS
	DH5 HCH		2.91	106.7	0.31	0.4	PASS
	2DH5	LCH	2.88	106.7	0.307	0.4	PASS
π/4DQPSK	2DH5	MCH	1.71	106.7	0.307	0.4	PASS
	2DH5	HCH	2.91	106.7	0.307	0.4	PASS
8DPSK	3DH5	LCH	2.88	106.7	0.307	0.4	PASS
	3DH5	MCH	1.71	106.7	0.307	0.4	PASS
	3DH5	HCH	2.91	106.7	0.307	0.4	PASS





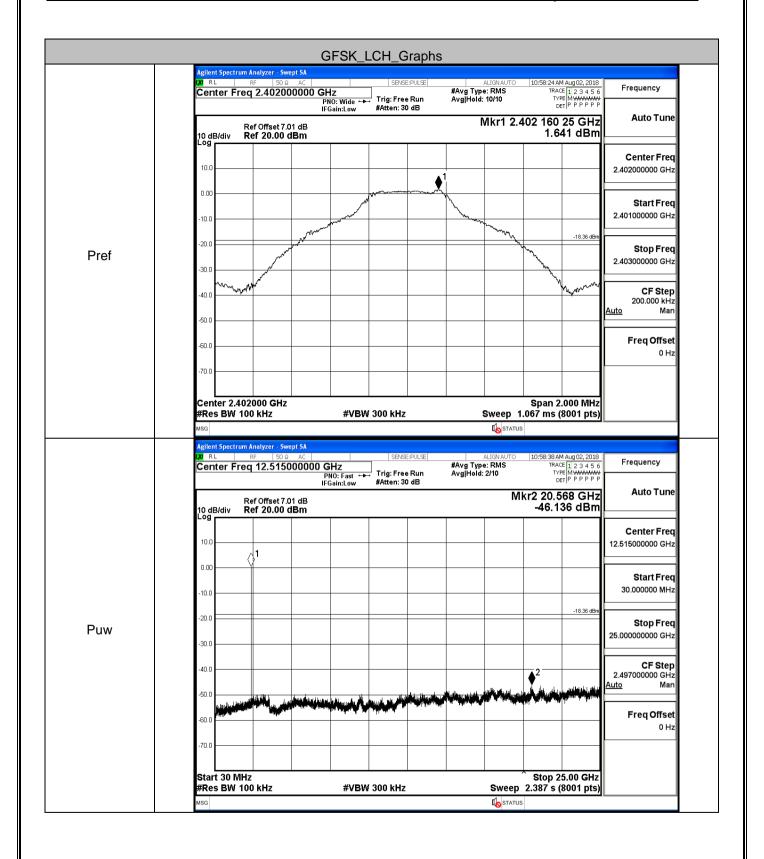


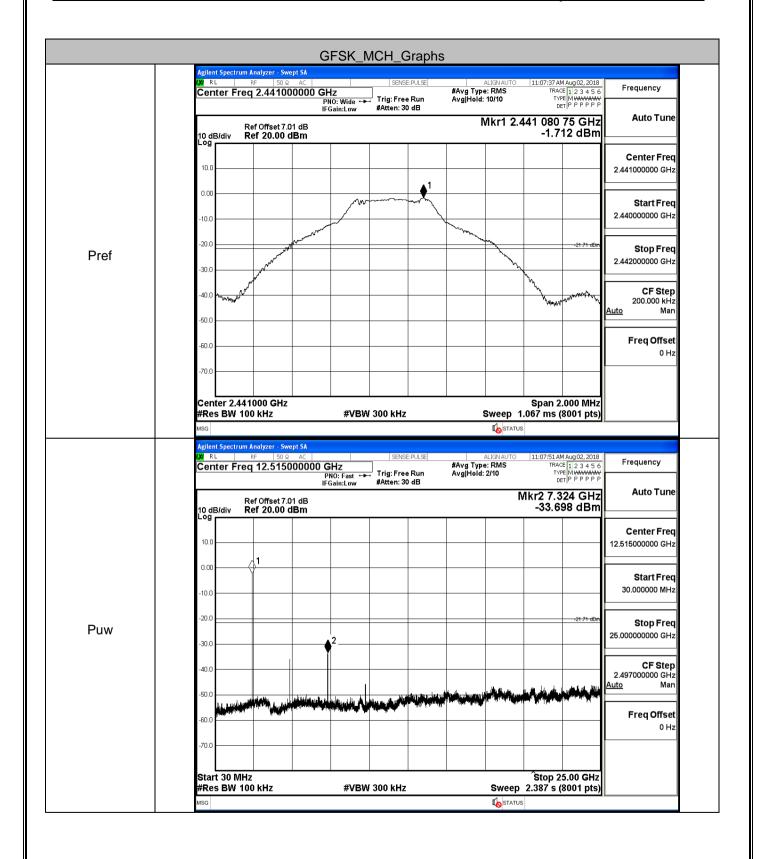


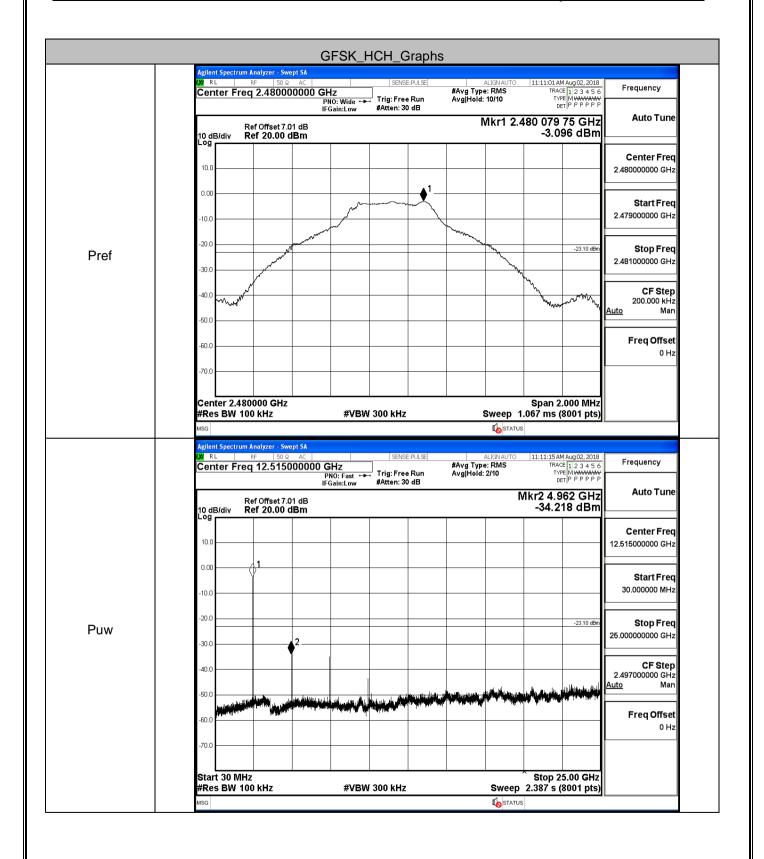


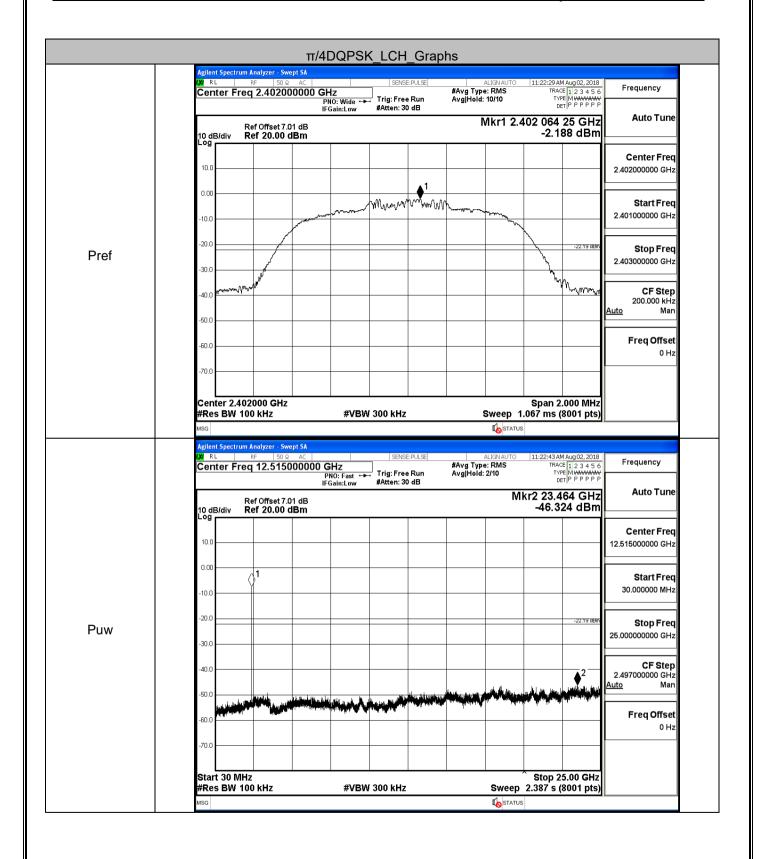
A.6 RF Conducted Spurious Emissions

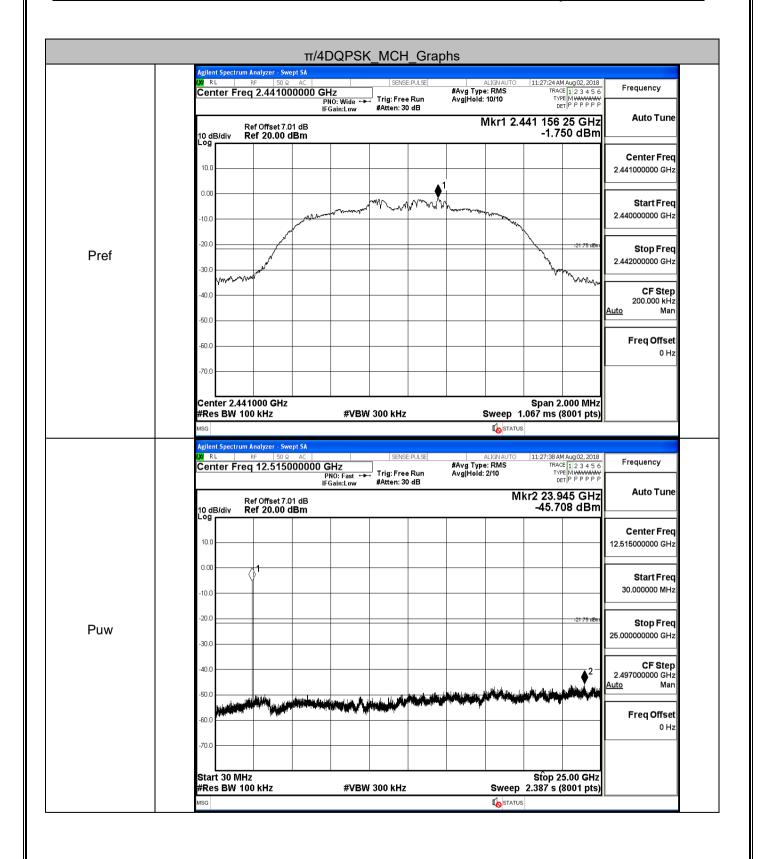
Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
	LCH	1.641	-46.136	-18.359	PASS
GFSK	MCH	-1.712	-33.698	-21.712	PASS
	HCH	-3.096	-34.218	-23.096	PASS
	LCH	-2.188	-46.324	-22.188	PASS
π/4DQPSK	MCH	-1.75	-45.708	-21.750	PASS
	НСН	-0.87	-45.966	-20.870	PASS
8DPSK	LCH	3.083	-45.853	-16.917	PASS
	MCH	1.418	-45.758	-18.582	PASS
	HCH	2.46	-45.105	-17.540	PASS

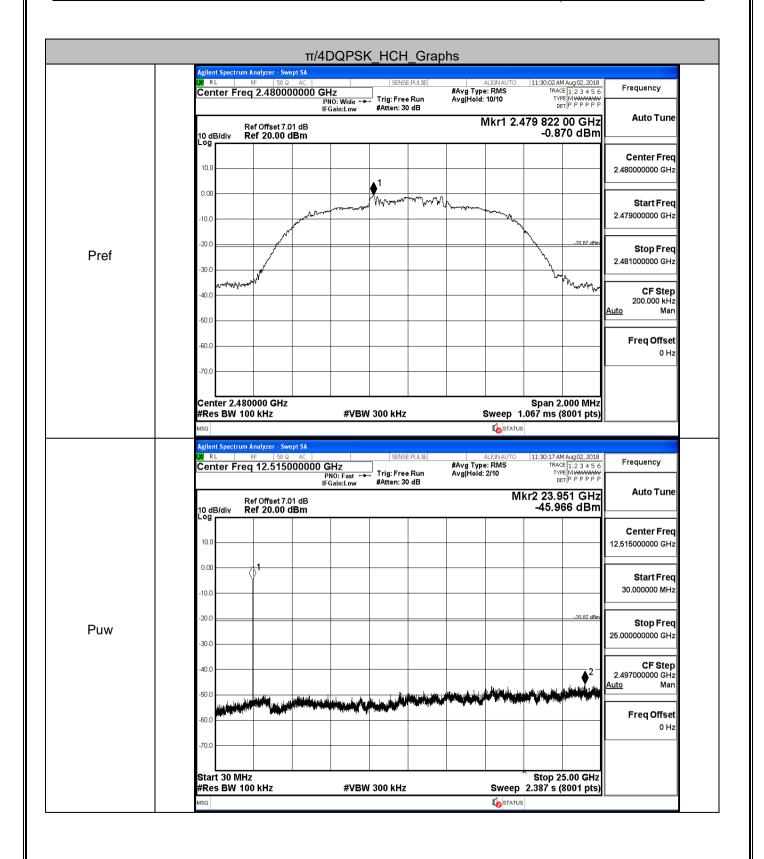


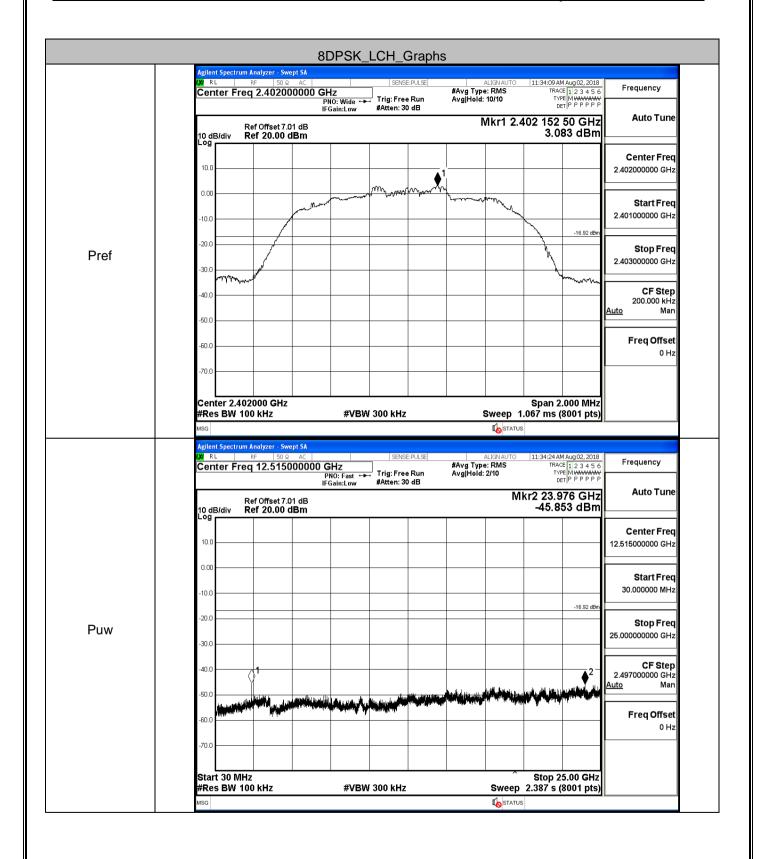


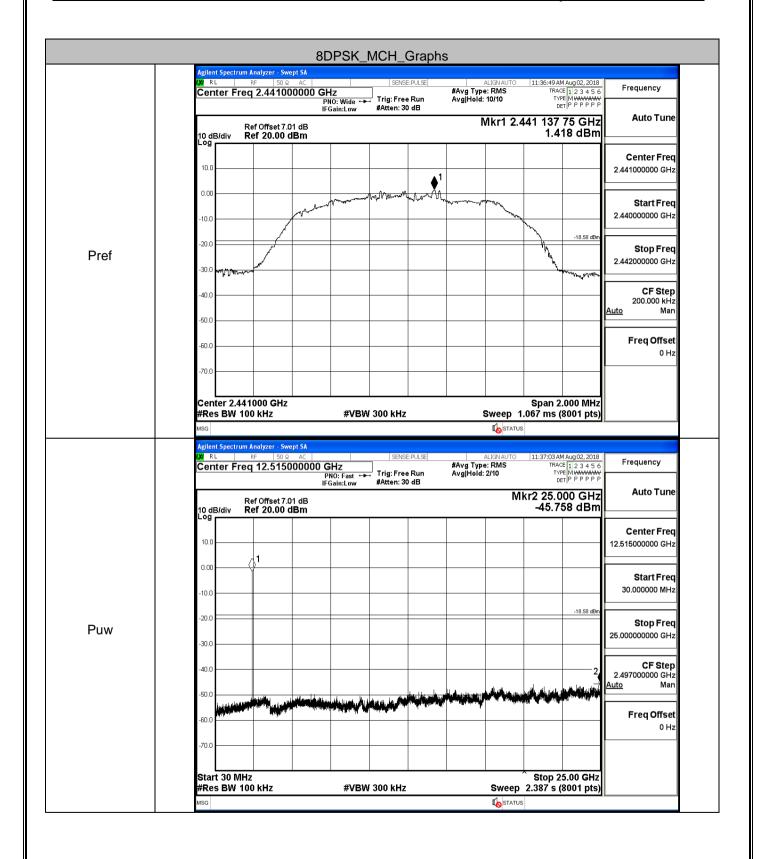


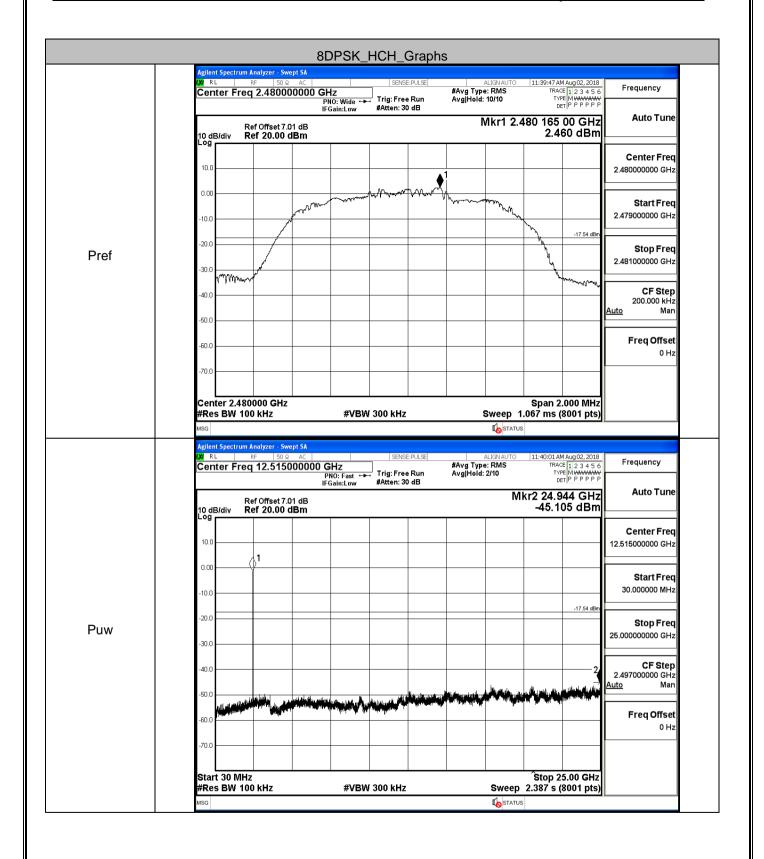






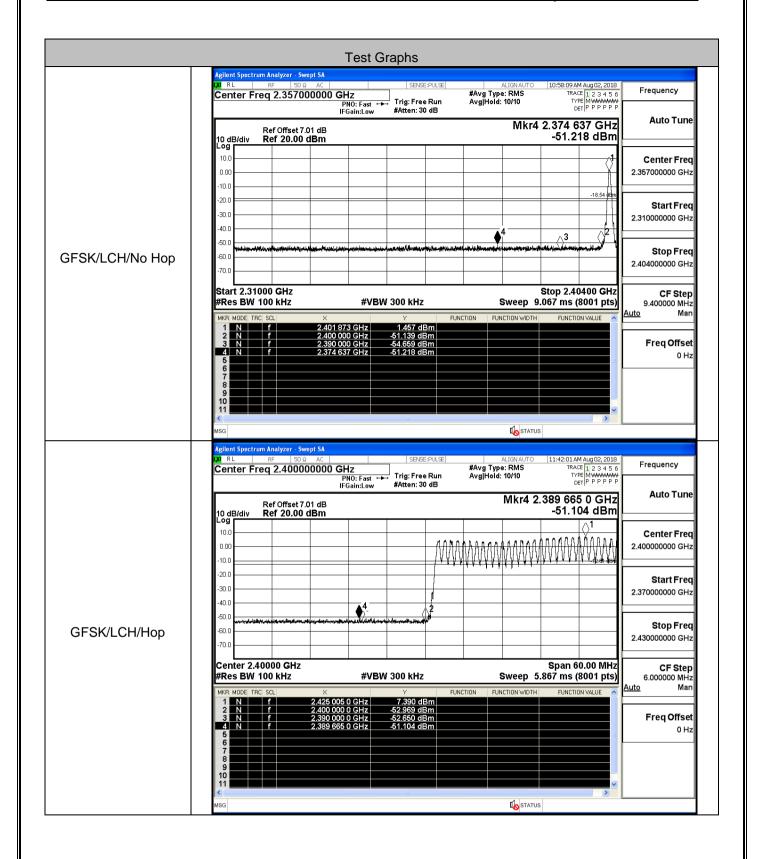


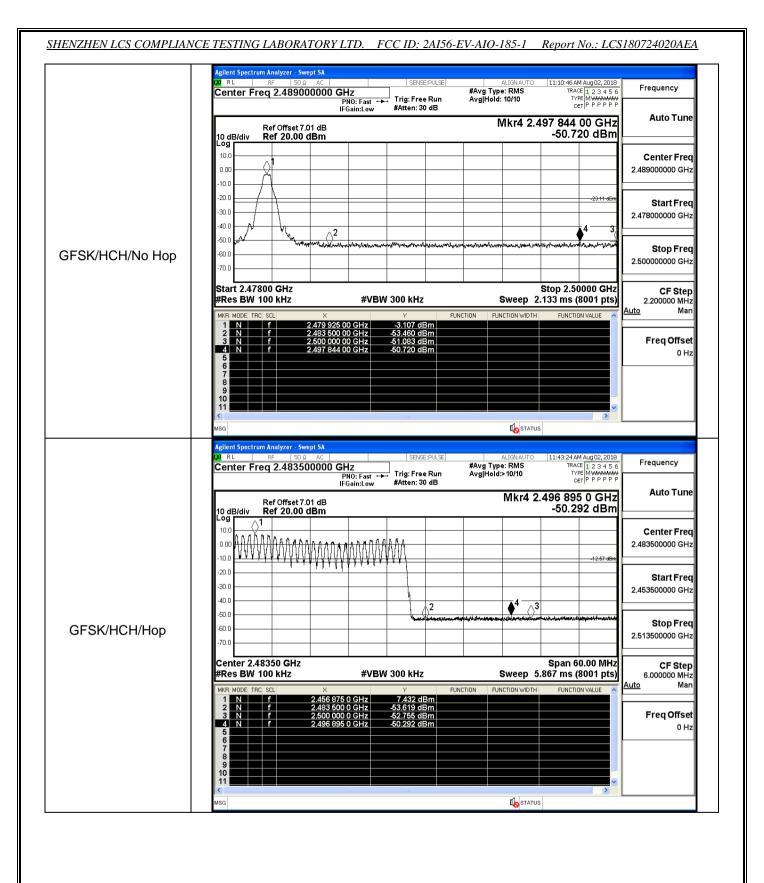


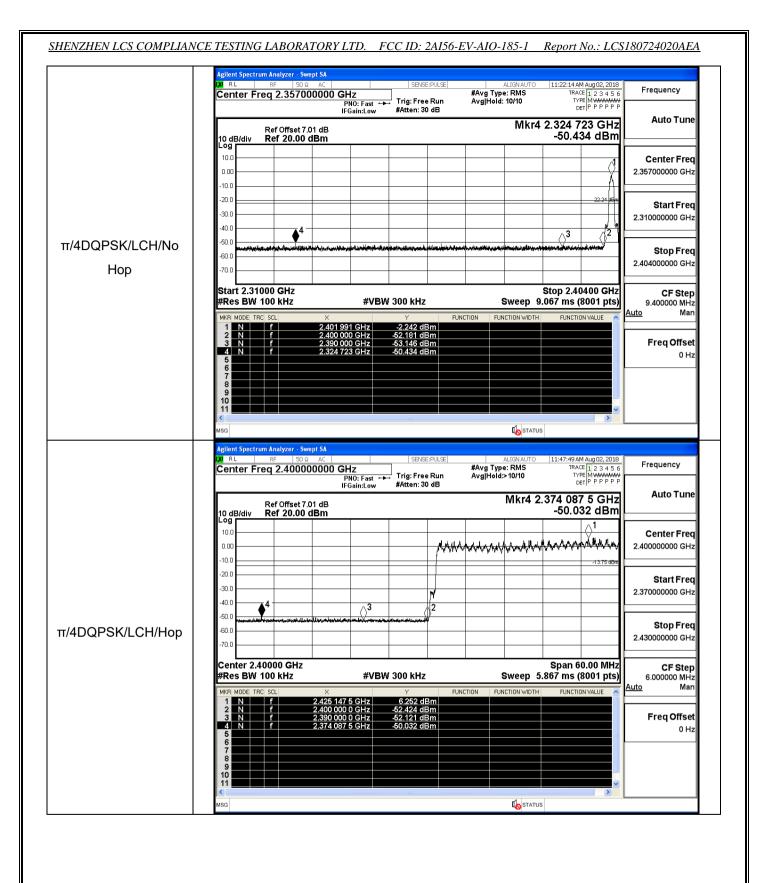


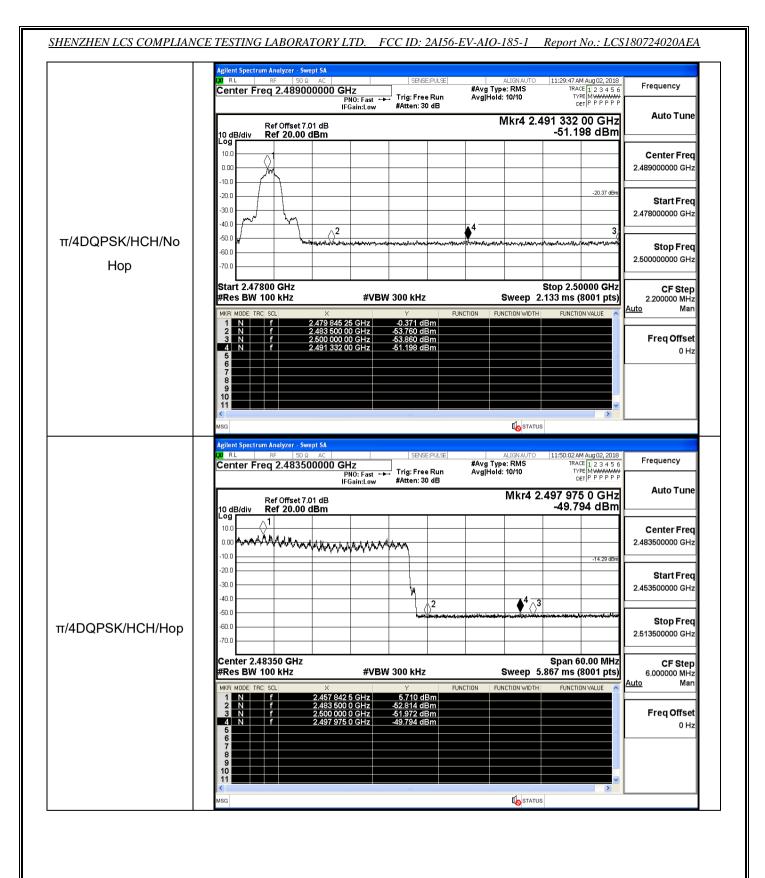
A.7 Band-edge for RF Conducted Emissions

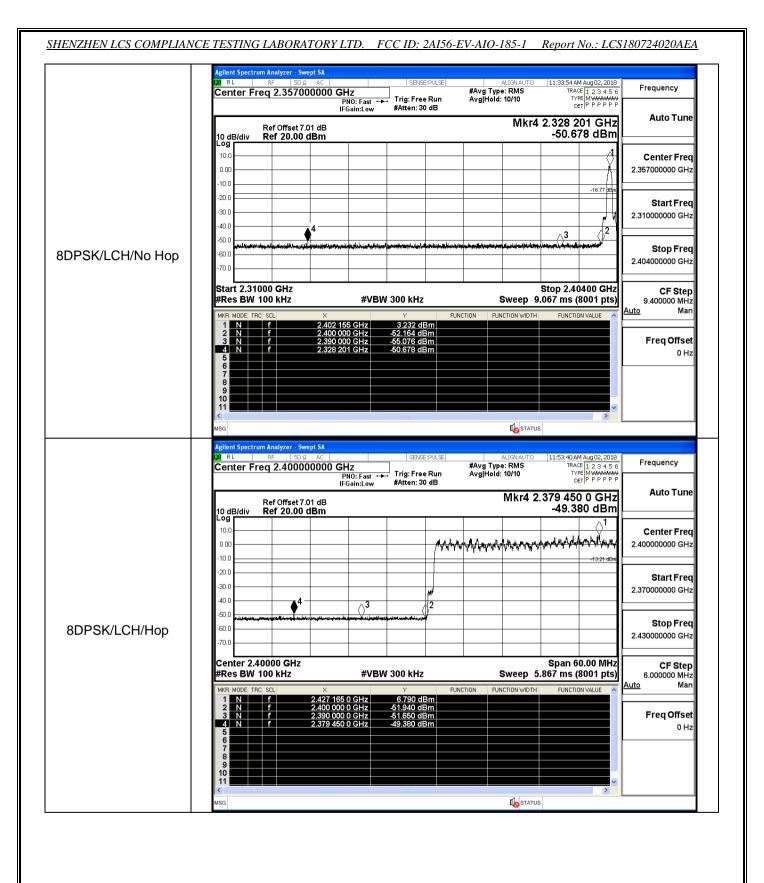
Mode	Channel	Carrier Frequency [MHz]	Carrier Power [dBm]	Frequency Hopping	Max Spurious Level [dBm]	Limit [dBm]	Verdict
			1.457	Off	-51.218	-18.54	PASS
2-21/	LCH	2402	7.390	On	-51.104	-12.61	PASS
GFSK	нсн		-3.107	Off	-50.720	-23.11	PASS
		2480	7.432	On	-50.292	-12.57	PASS
	LCH		-2.242	Off	-50.434	-22.24	PASS
		2402	6.252	On	-50.032	-13.75	PASS
π/4DQPSK	нсн		-0.371	Off	-51.198	-20.37	PASS
		H 2480	5.710	On	-49.794	-14.29	PASS
			3.232	Off	-50.678	-16.77	PASS
8DPSK	LCH	2402	6.790	On	-49.380	-13.21	PASS
			2.744	Off	-50.352	-17.26	PASS
	HCH	2480	6.234	On	-50.391	-13.77	PASS

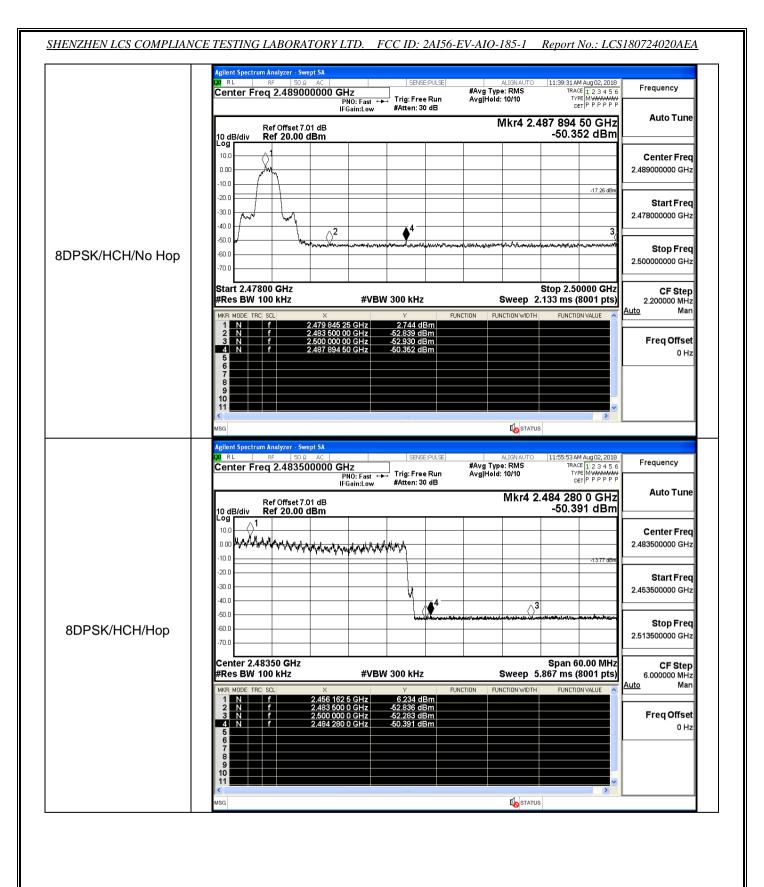






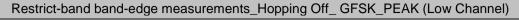


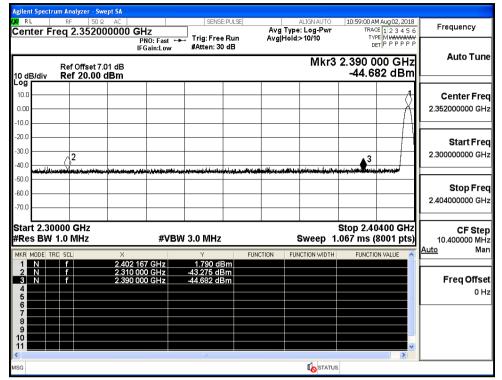




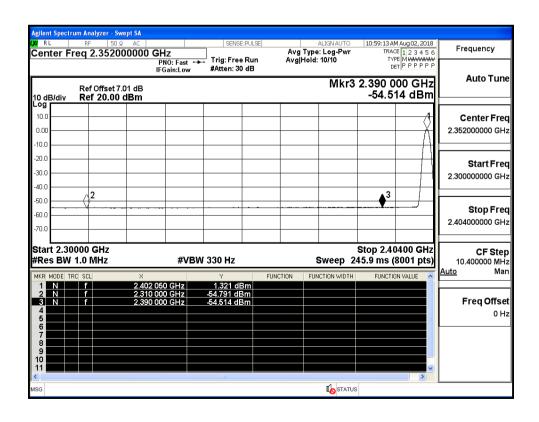
A.8 Restrict-band band-edge measurements

Test Mode	Hopping	Freq.	Power [dBm]	Gain	Ground Factor	E [dBuV/m]	Detector	Limit [dBuV/m]	Verdict
	Off	2310.0	-43.28	2.0	0	53.98	PEAK	74	PASS
	Off	2310.0	-54.79	2.0	0	42.47	AV	54	PASS
	Off	2390.0	-44.68	2.0	0	52.58	PEAK	74	PASS
	Off	2390.0	-54.51	2.0	0	42.74	AV	54	PASS
GFSK	Off	2483.5	-44.03	2.0	0	53.23	PEAK	74	PASS
	Off	2483.5	-53.95	2.0	0	43.30	AV	54	PASS
	Off	2500.0	-43.67	2.0	0	53.59	PEAK	74	PASS
	Off	2500.0	-54.05	2.0	0	43.21	AV	54	PASS
	Off	2310.0	-45.10	2.0	0	52.16	PEAK	74	PASS
	Off	2310.0	-54.80	2.0	0	42.46	AV	54	PASS
	Off	2390.0	-44.25	2.0	0	53.01	PEAK	74	PASS
	Off	2390.0	-54.39	2.0	0	42.87	AV	54	PASS
π/4DQPSK	Off	2483.5	-43.84	2.0	0	53.42	PEAK	74	PASS
	Off	2483.5	-54.13	2.0	0	43.13	AV	54	PASS
	Off	2500.0	-43.71	2.0	0	53.54	PEAK	74	PASS
	Off	2500.0	-54.14	2.0	0	43.12	AV	54	PASS
	Off	2310.0	-44.78	2.0	0	52.48	PEAK	74	PASS
	Off	2310.0	-54.72	2.0	0	42.54	AV	54	PASS
	Off	2390.0	-44.22	2.0	0	53.04	PEAK	74	PASS
	Off	2390.0	-54.42	2.0	0	42.84	AV	54	PASS
8DPSK	Off	2483.5	-44.22	2.0	0	53.04	PEAK	74	PASS
	Off	2483.5	-53.99	2.0	0	43.27	AV	54	PASS
	Off	2500.0	-43.69	2.0	0	53.57	PEAK	74	PASS
	Off	2500.0	-54.05	2.0	0	43.21	AV	54	PASS

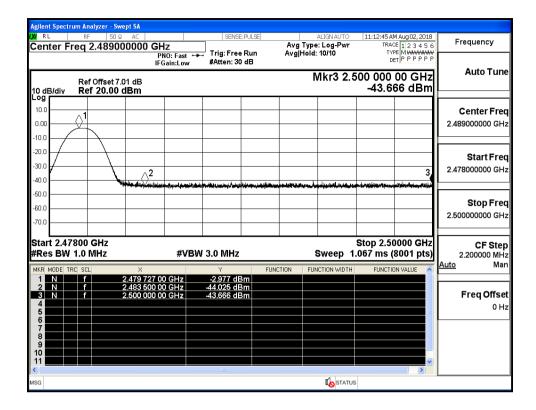




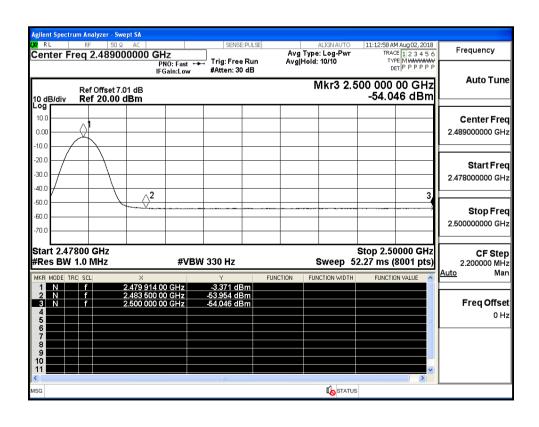
Restrict-band band-edge measurements_Hopping Off_ GFSK_Average (Low Channel)



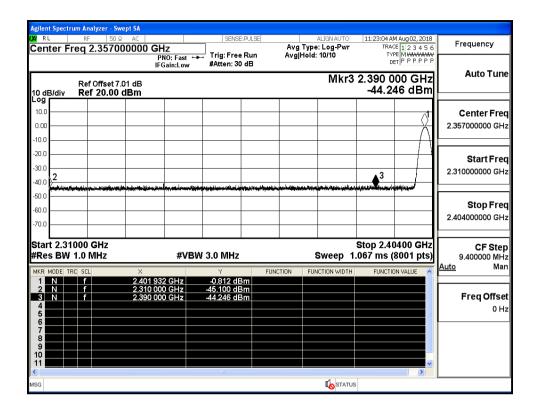
Restrict-band band-edge measurements_Hopping Off_ GFSK_PEAK (High Channel)



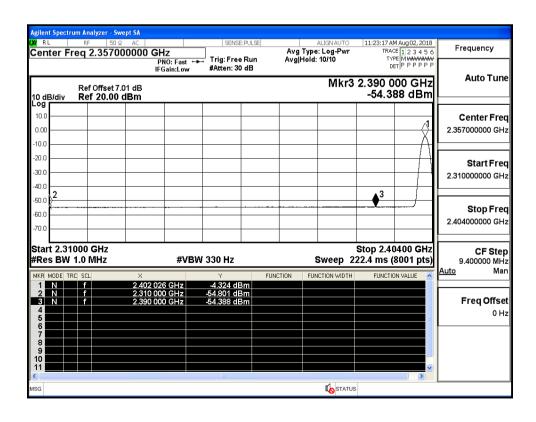
Restrict-band band-edge measurements_Hopping Off_ GFSK_Average (High Channel)



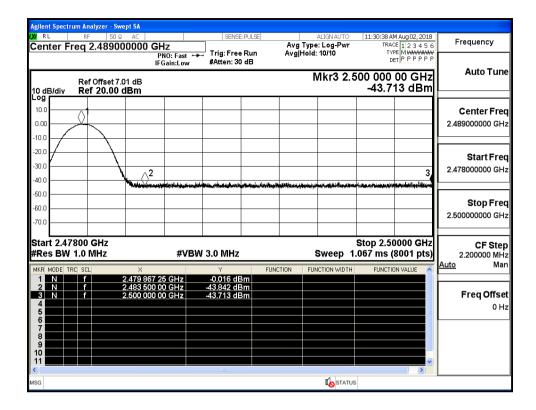
Restrict-band band-edge measurements_Hopping Off_π/4-DQPSK_PEAK (Low Channel)



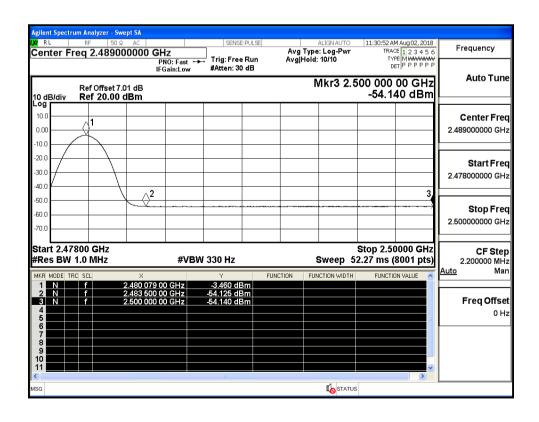
Restrict-band band-edge measurements_Hopping Off_π/4-DQPSK_Average (Low Channel)



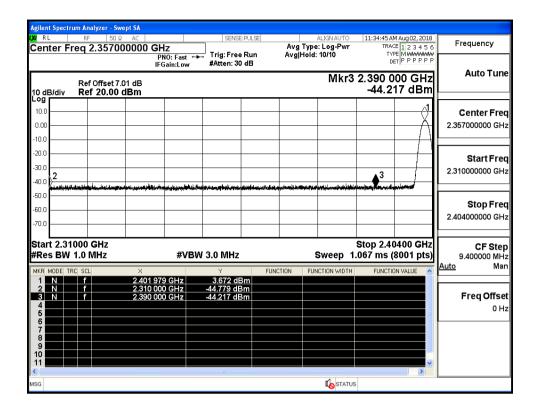
Restrict-band band-edge measurements_Hopping Off_π/4-DQPSK_PEAK (High Channel)



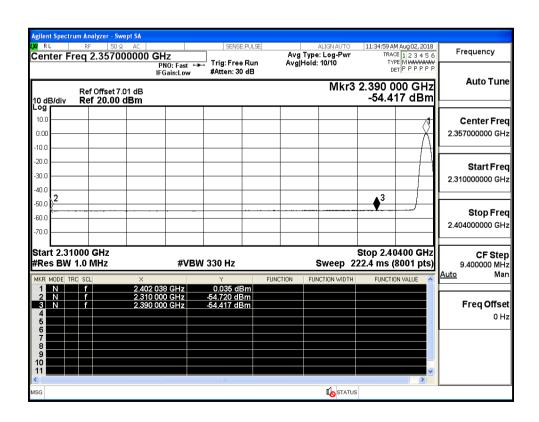
Restrict-band band-edge measurements_Hopping Off_π/4-DQPSK_Average (High Channel)



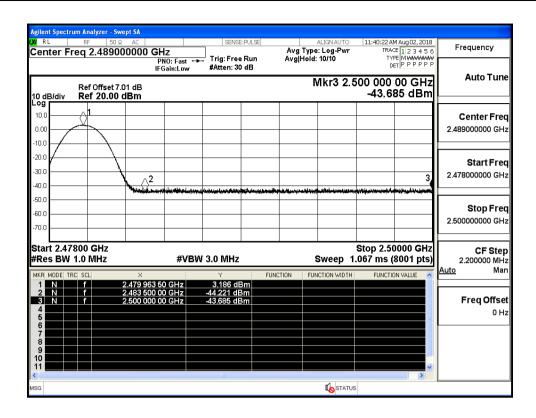
Restrict-band band-edge measurements_Hopping Off_8DPSK_PEAK (Low Channel)



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)

