Appendix B

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

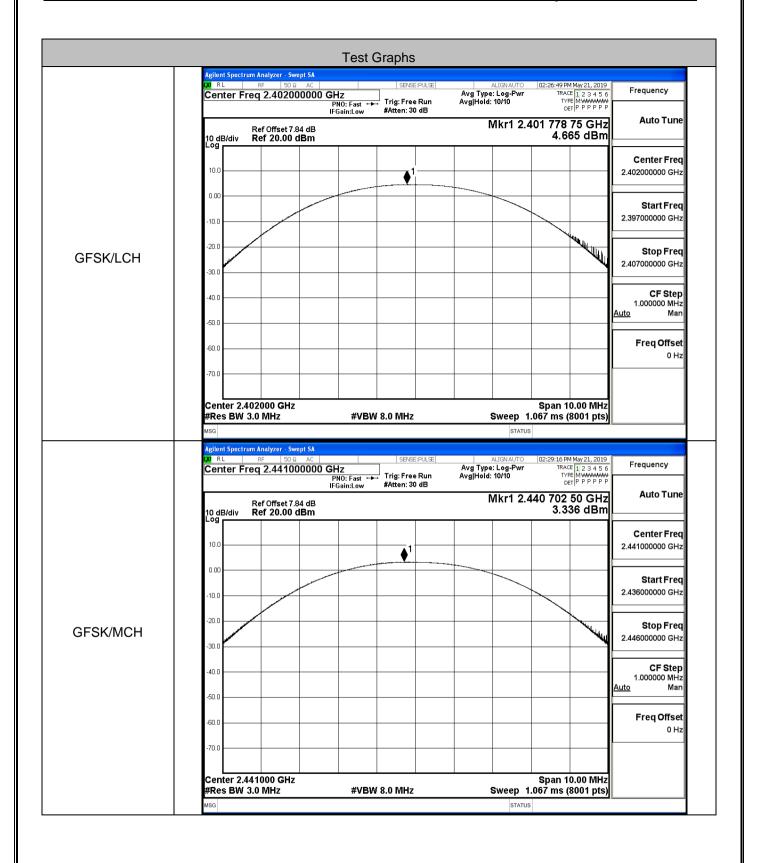
Product Name: Portable Internet Radio
Trade Mark: N/A
Test Model: MA-26D

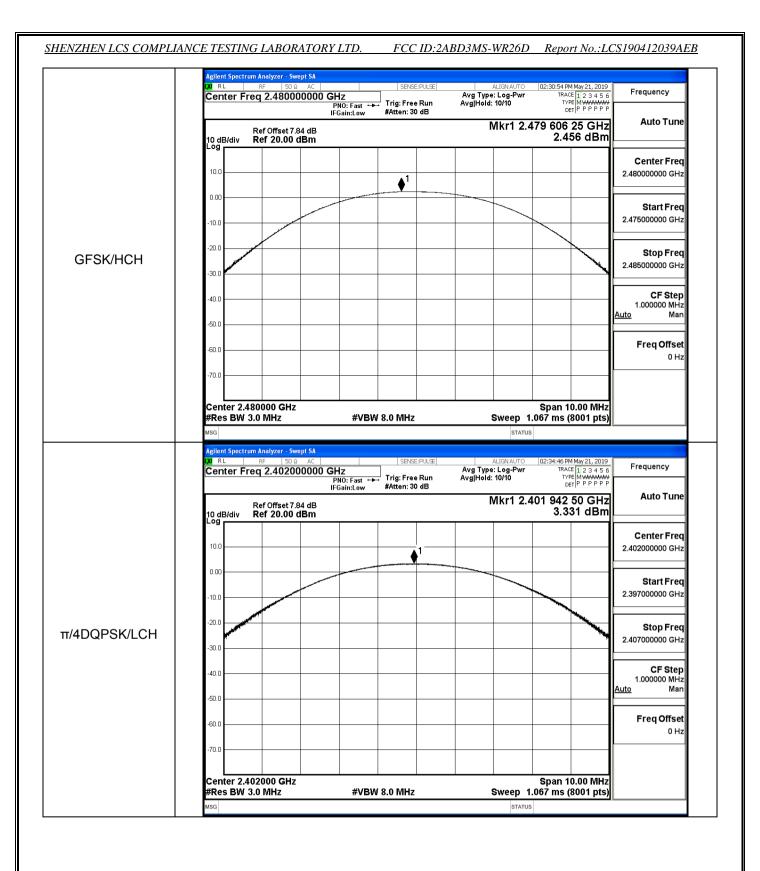
Environmental Conditions

Temperature:	23.9 ° C
Relative Humidity:	54.6%
ATM Pressure:	100.0 kPa
Test Engineer:	Tom.Liu
Supervised by:	Aking Jin

B.1 Maxmum Conducted Peak Output Power

Mode	Channel.	Maximum Peak Output Power [dBm]	Limit [dBm]	Verdict
	LCH	4.665	30	PASS
GFSK	MCH	3.336	30	PASS
	НСН	2.456	30	PASS
	LCH	3.331	21	PASS
π/4DQPSK	MCH	3.177	21	PASS
	НСН	1.882	21	PASS
	LCH	3.622	21	PASS
8DPSK	MCH	3.419	21	PASS
	НСН	2.166	21	PASS





SHENZHEN LCS COMPLIANCE TESTING LABORATORY LTD. FCC ID:2ABD3MS-WR26D Report No.:LCS190412039AEB Agilent Spectrum Analyzer - Swept SA TO 02:45:08 PM May 21, 2019 WY TRACE 1 2 3 4 5 6 TYPE M WWWWWWW DET P P P P P P SENSE:PULSE Avg Type: Log-Pwr Avg|Hold: 10/10 Frequency Mkr1 2.480 027 50 GHz 2.166 dBm Auto Tune Ref Offset 7.84 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

#VBW 8.0 MHz

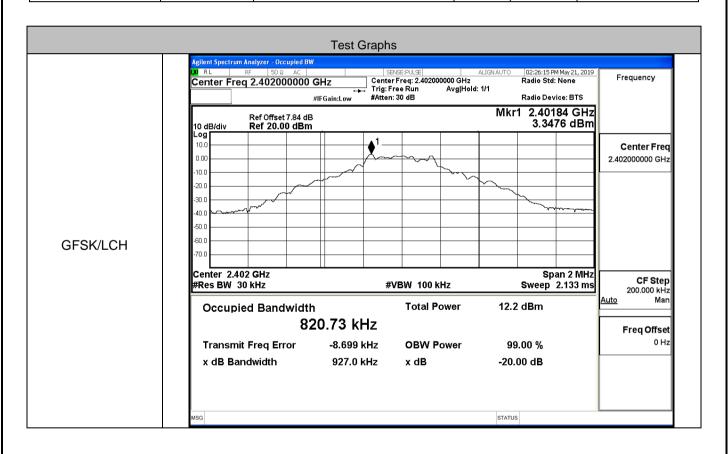
Span 10.00 MHz Sweep 1.067 ms (8001 pts)

STATUS

Center 2.480000 GHz #Res BW 3.0 MHz

B.2 20dB Bandwidth

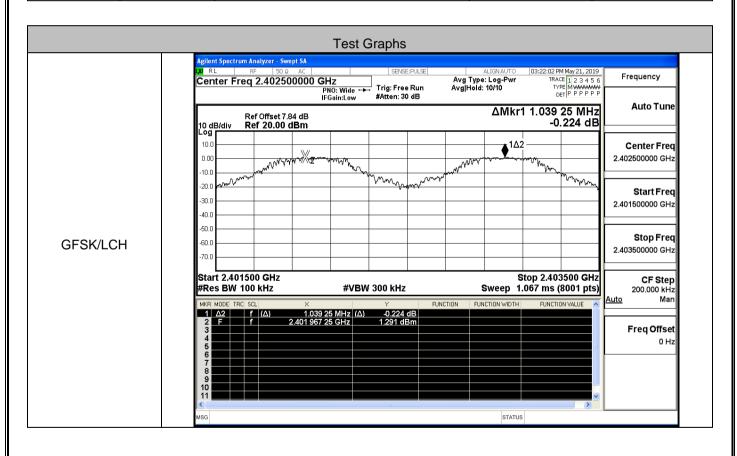
Mode	Channel.	20dB Bandwidth [MHz]	Limit [MHz]	Verdict
	LCH	0.9270	Not Specified	PASS
GFSK	MCH	0.9262	Not Specified	PASS
	НСН	0.9260	Not Specified	PASS
	LCH	1.281	Not Specified	PASS
π/4DQPSK	MCH	1.283	Not Specified	PASS
	НСН	1.280	Not Specified	PASS
	LCH	1.286	Not Specified	PASS
8DPSK	MCH	1.290	Not Specified	PASS
	HCH	1.294	Not Specified	PASS

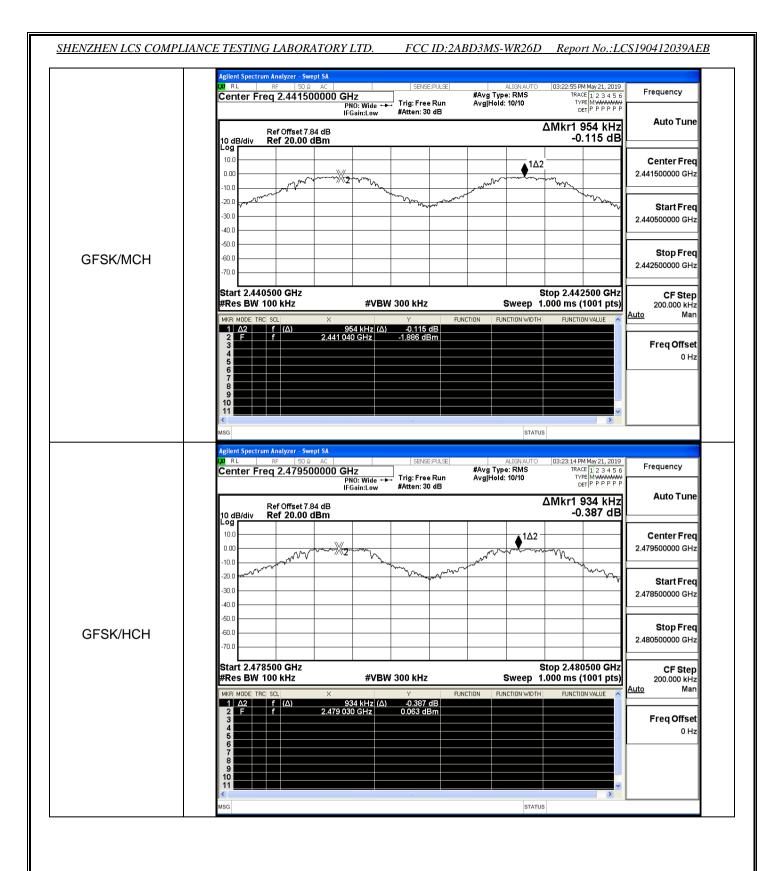


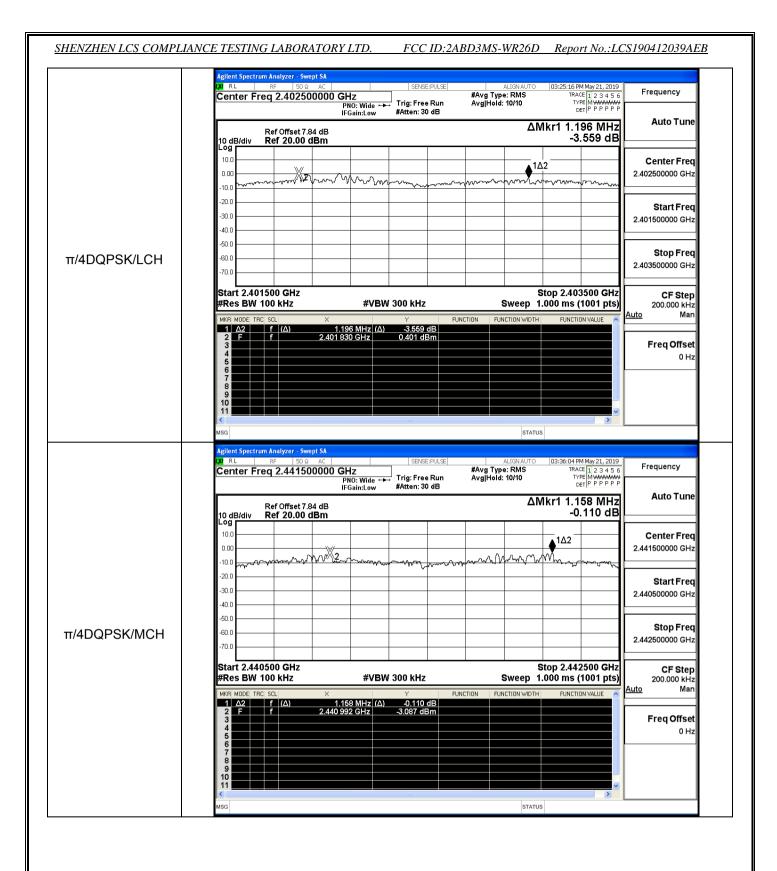
SHENZHEN LCS COMPLIANCE TESTING LABORATORY LTD.

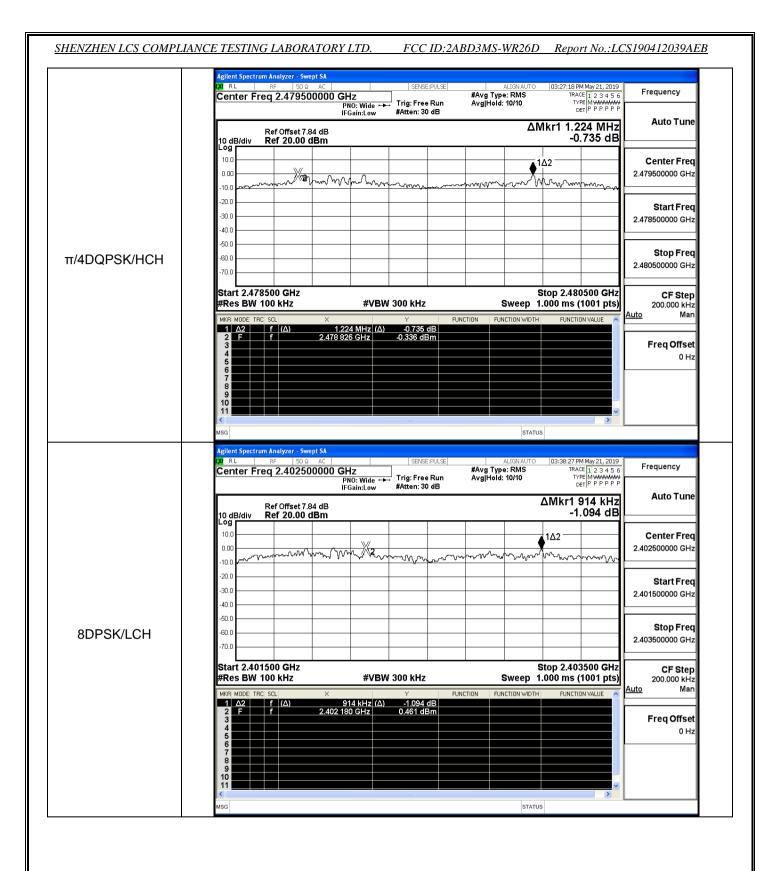
B.3 Carrier Frequency Separation

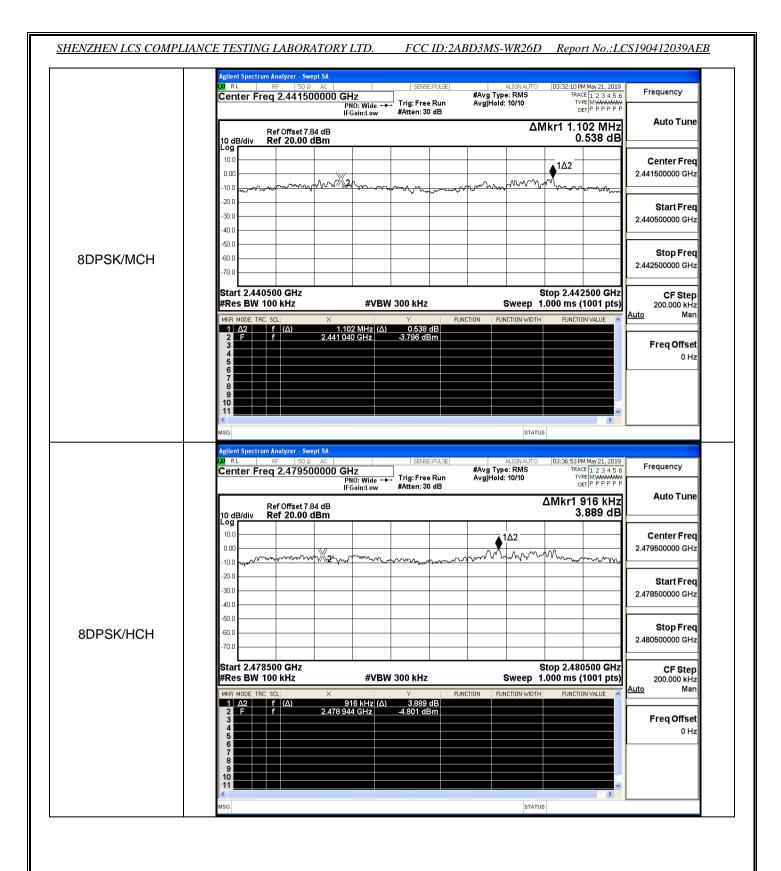
Mode	Channel.	Carrier Frequency Separation [MHz]	Limit [MHz]	Verdict
	LCH	1.039	0.618	PASS
GFSK	MCH	0.954	0.618	PASS
	HCH	0.934	0.618	PASS
	LCH	1.196	0.855	PASS
π/4DQPSK	MCH	1.158	0.855	PASS
	HCH	1.224	0.855	PASS
	LCH	0.914	0.863	PASS
8DPSK	MCH	1.102	0.863	PASS
	HCH	0.916	0.863	PASS





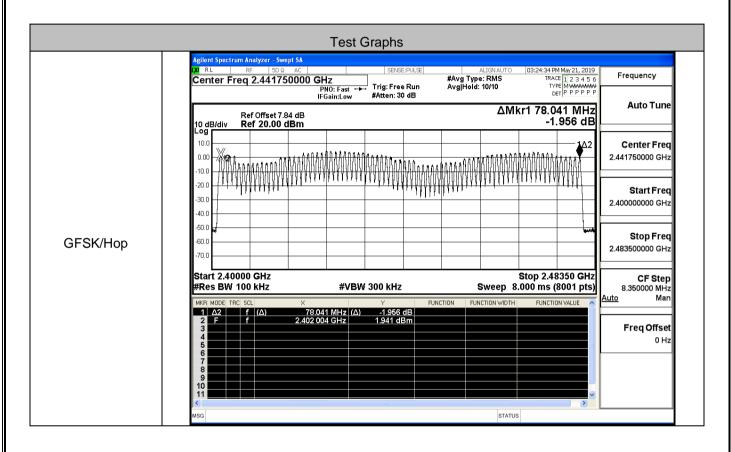


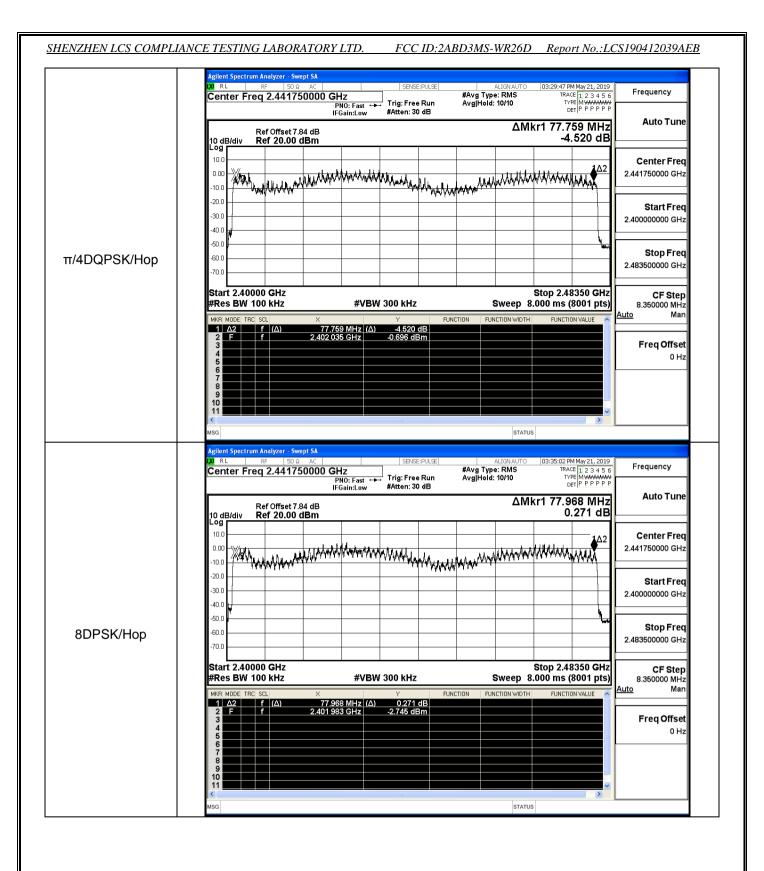




B.4 Hopping Channel Number

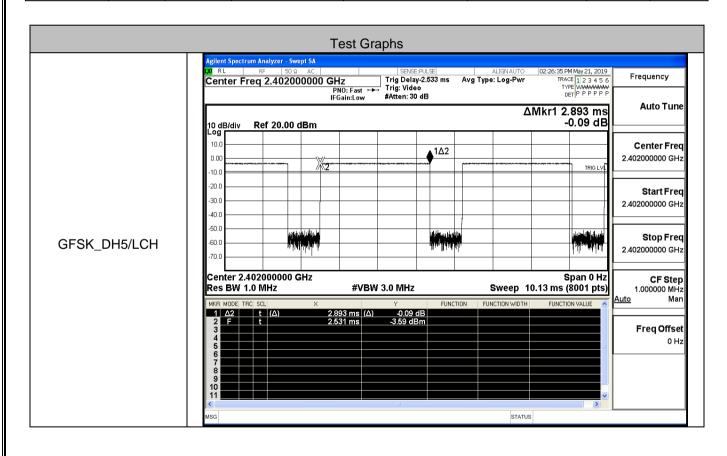
Mode	Channel.	Number of Hopping Channel [N]	Limit [N]	Verdict
GFSK	Нор	79	>=15	PASS
π/4DQPSK	Нор	79	>=15	PASS
8DPSK	Нор	79	>=15	PASS

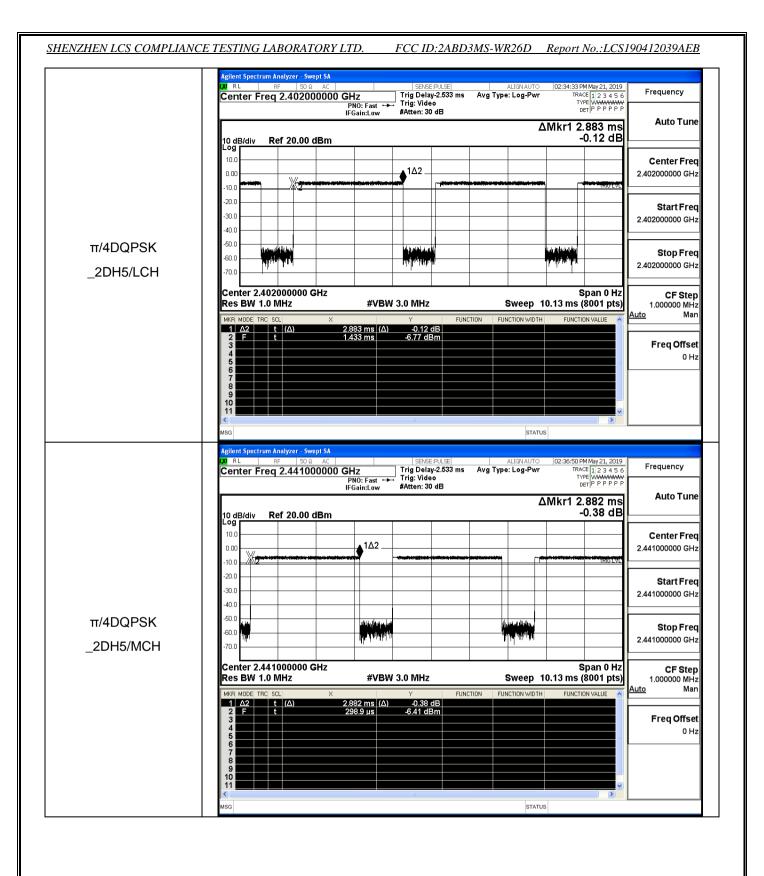




B.5 Dwell Time

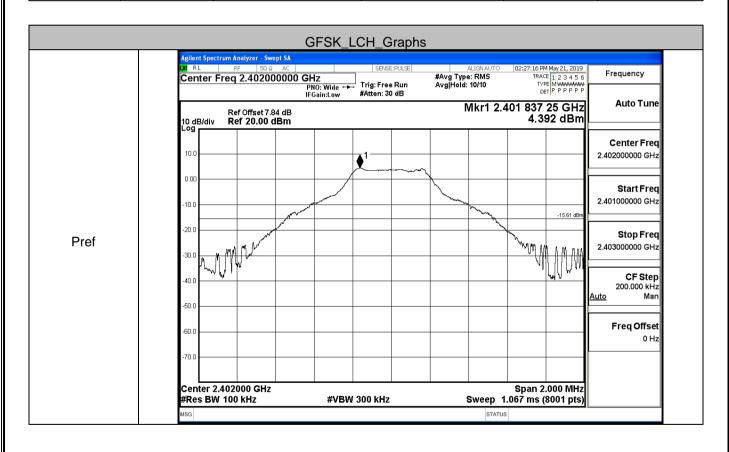
Mode	Packet	Channel	Burst Width [ms/hop/ch]	Total Hops[hop*ch]	Dwell Time[s]	Limit [s]	Verdict
	DH5	LCH	2.89	106.7	0.308	0.4	PASS
GFSK	DH5	MCH	2.89	106.7	0.308	0.4	PASS
	DH5	HCH	2.89	106.7	0.308	0.4	PASS
	2DH5	LCH	2.89	106.7	0.307	0.4	PASS
π/4DQPSK	2DH5	MCH	2.89	106.7	0.307	0.4	PASS
	2DH5	HCH	2.89	106.7	0.307	0.4	PASS
8DPSK	3DH5	LCH	2.89	106.7	0.307	0.4	PASS
	3DH5	MCH	2.89	106.7	0.307	0.4	PASS
	3DH5	НСН	2.89	106.7	0.307	0.4	PASS

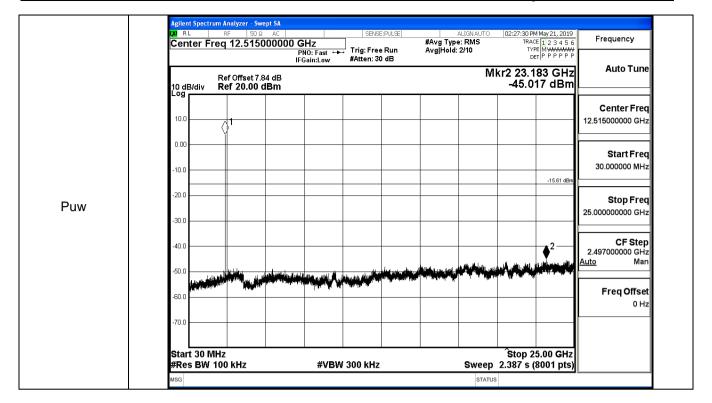


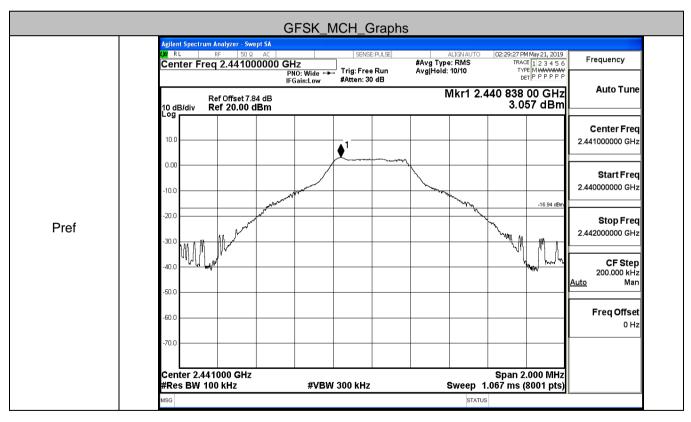


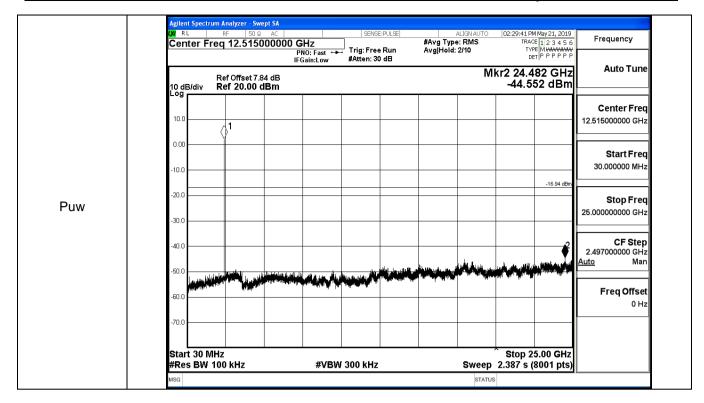
B.6 RF Conducted Spurious Emissions

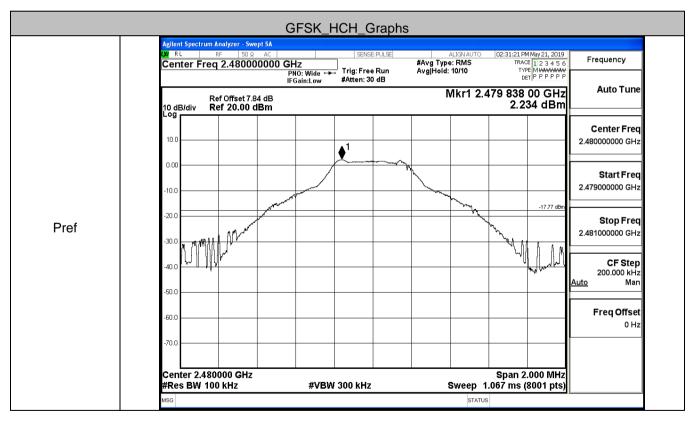
Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
	LCH	4.392	-45.017	-15.608	PASS
GFSK	MCH	3.057	-44.552	-16.943	PASS
	HCH	2.234	-44.924	-17.766	PASS
	LCH	1.497	-44.400	-18.503	PASS
π/4DQPSK	MCH	1.68	-44.741	-18.320	PASS
	НСН	0.391	-44.453	-19.609	PASS
	LCH	1.635	-44.872	-18.365	PASS
8DPSK	MCH	1.717	-45.415	-18.283	PASS
	НСН	0.464	-45.242	-19.536	PASS

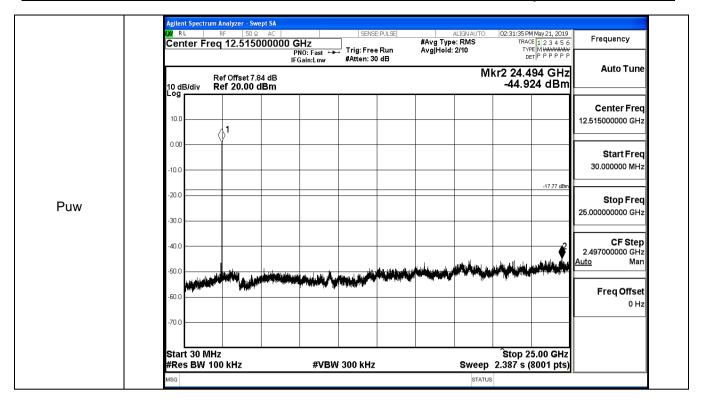


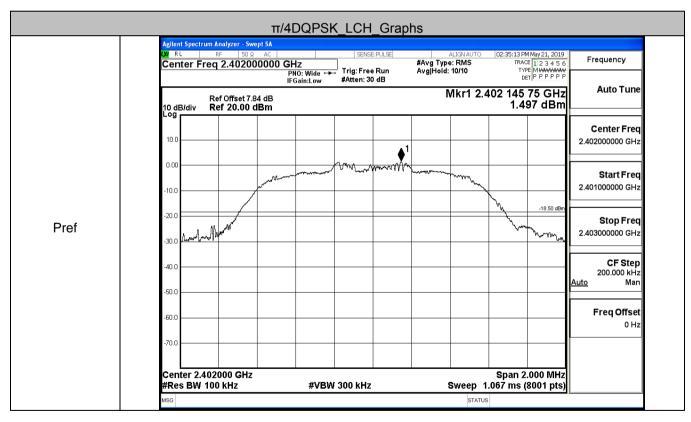


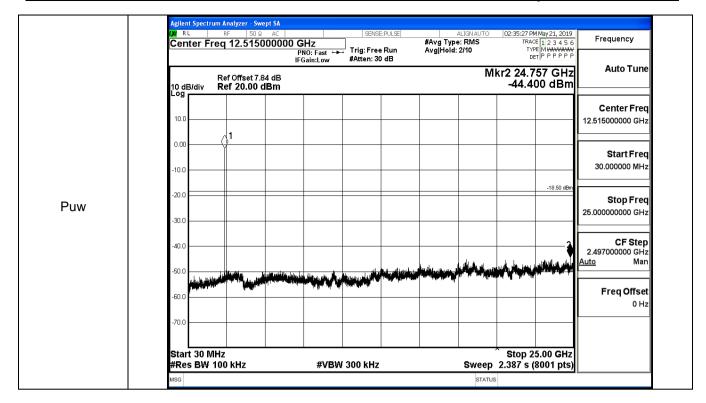


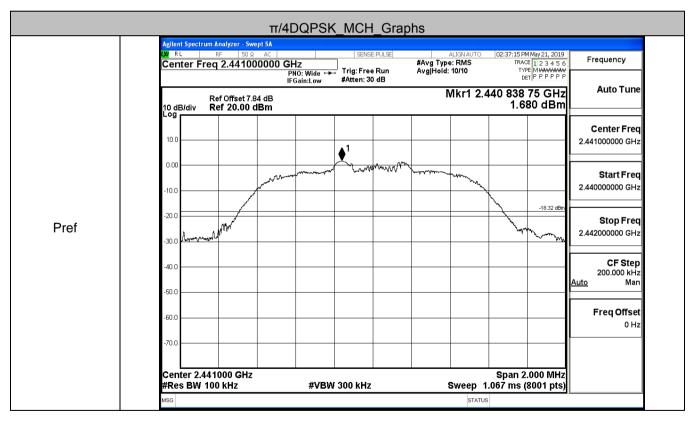


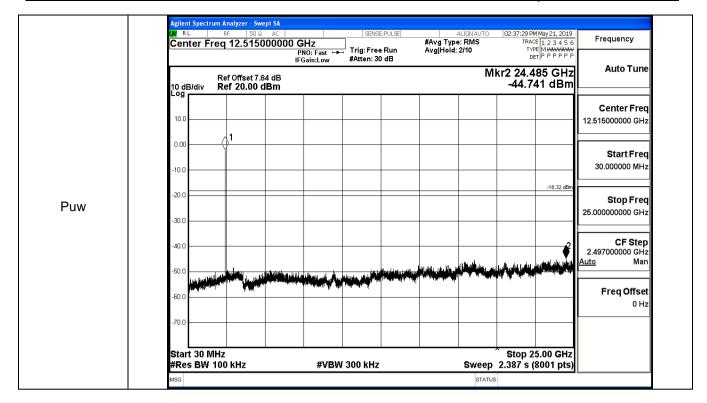


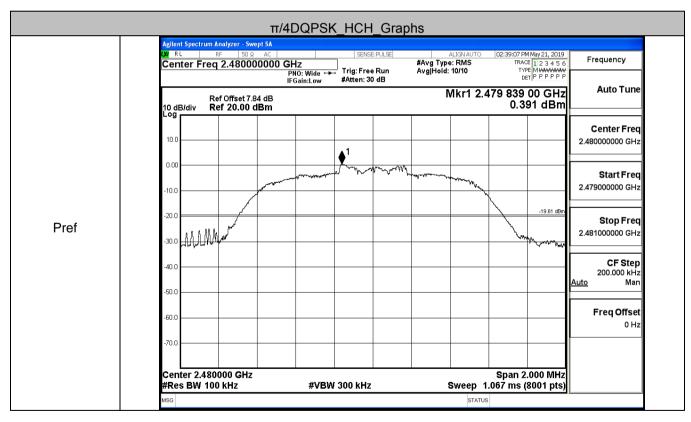


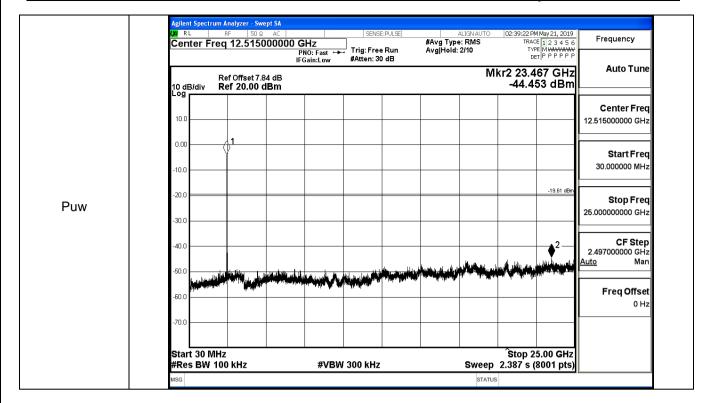


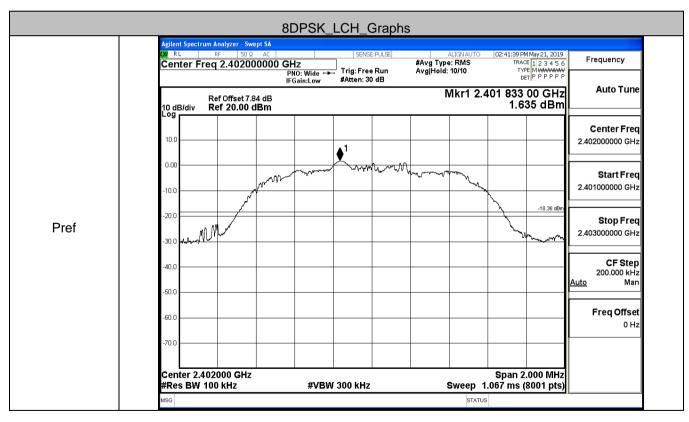


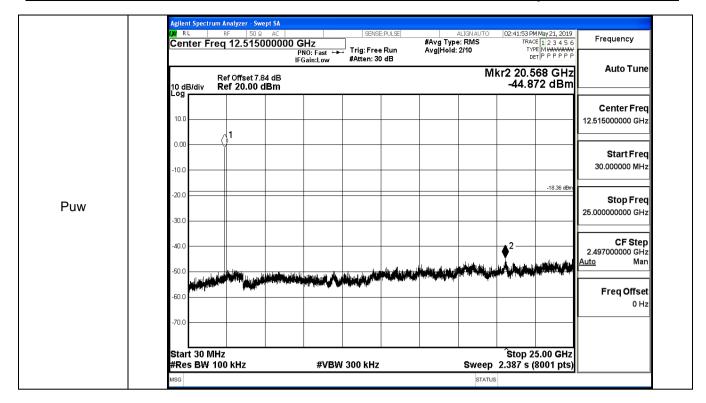


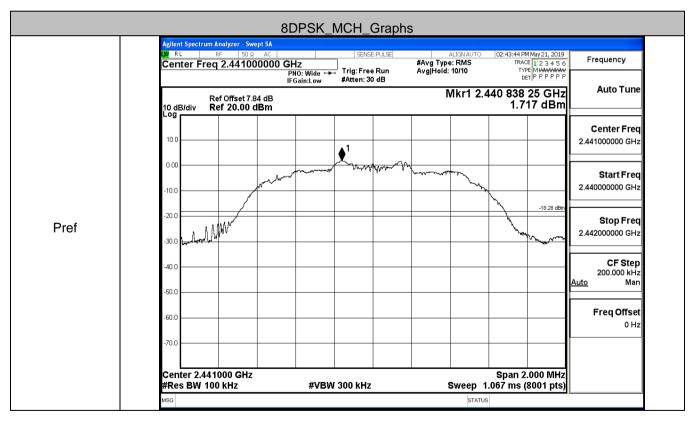


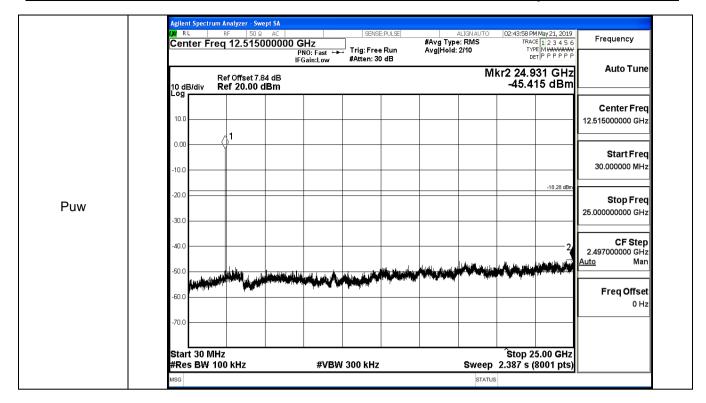


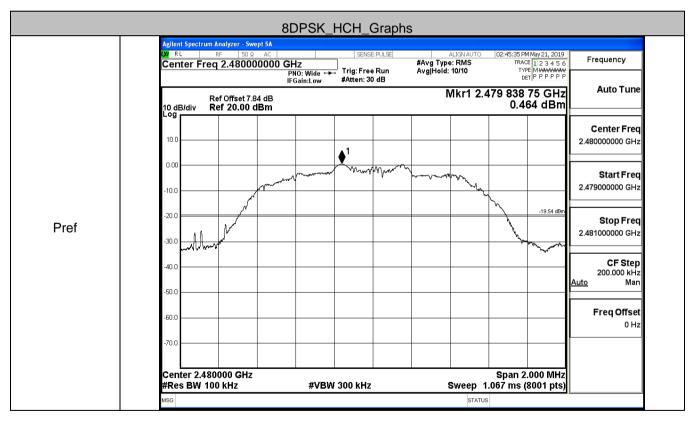












SHENZHEN LCS COMPLIANCE TESTING LABORATORY LTD. FCC ID:2ABD3MS-WR26D Report No.:LCS190412039AEB Agilent Spectrum Analyzer - Swept SA 02:45:49 PM May 21, 2019 TRACE 1 2 3 4 5 6 TYPE M WWWWWW DET P P P P P P #Avg Type: RMS Avg|Hold: 2/10 Frequency Trig: Free Run #Atten: 30 dB Mkr2 23.024 GHz -45.242 dBm Auto Tune Ref Offset 7.84 dB Ref 20.00 dBm 10 dB/div Log Center Freq 10.0 12.515000000 GHz 0.00 Start Freq 30.000000 MHz -10 O -19.54 dBm -20.0 Stop Freq Puw 25.000000000 GHz **CF Step** 2.497000000 GHz <u>Auto</u> Man 40.0 Auto -50.0 Freq Offset -60.0

#VBW 300 kHz

-70.0

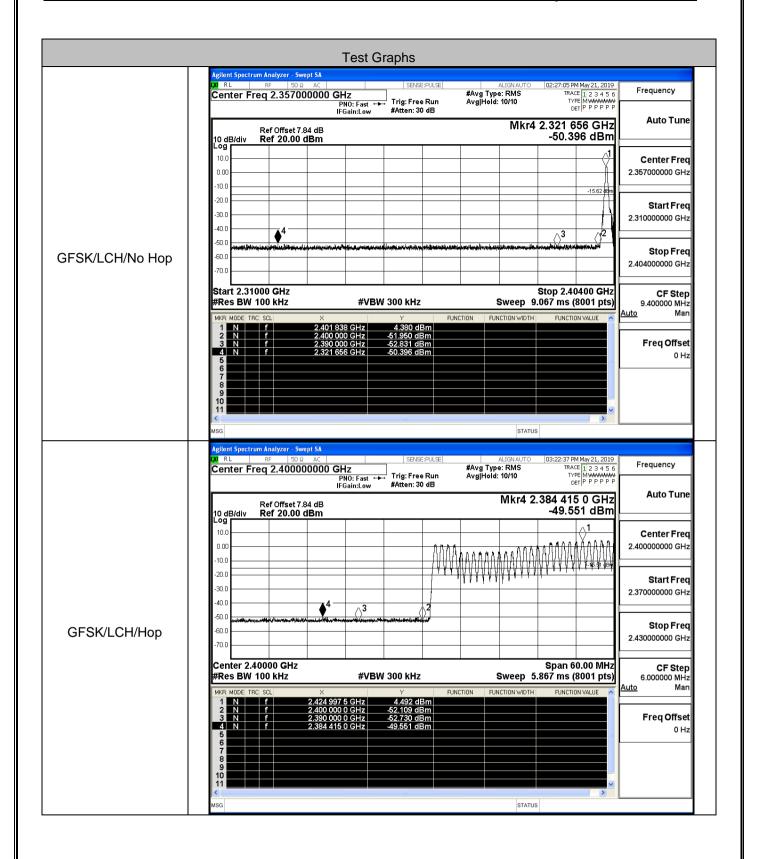
Start 30 MHz #Res BW 100 kHz 0 Hz

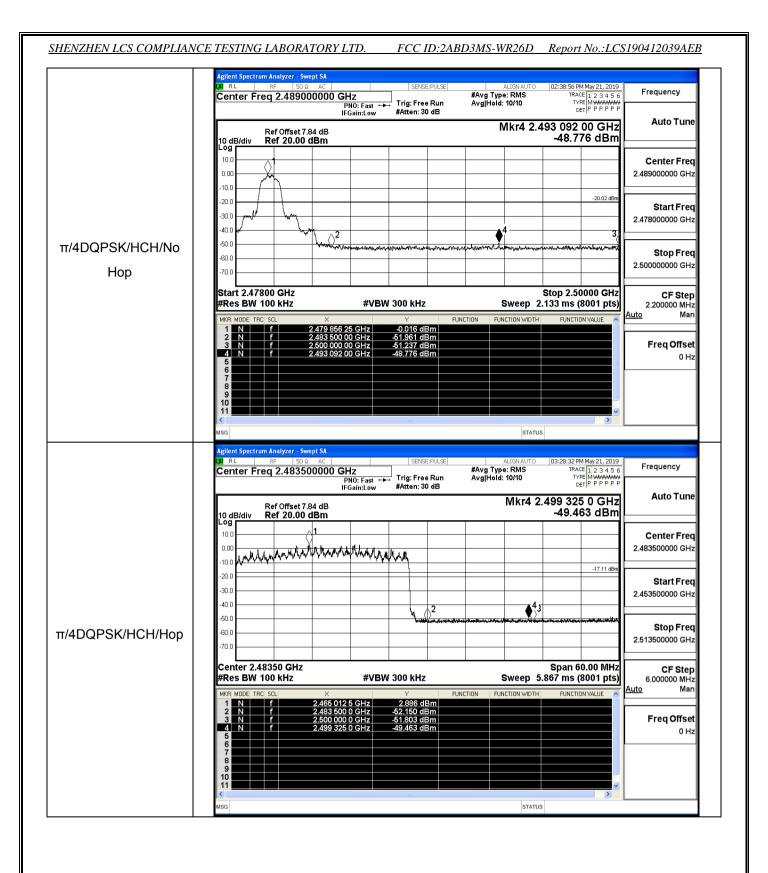
Stop 25.00 GHz Sweep 2.387 s (8001 pts)

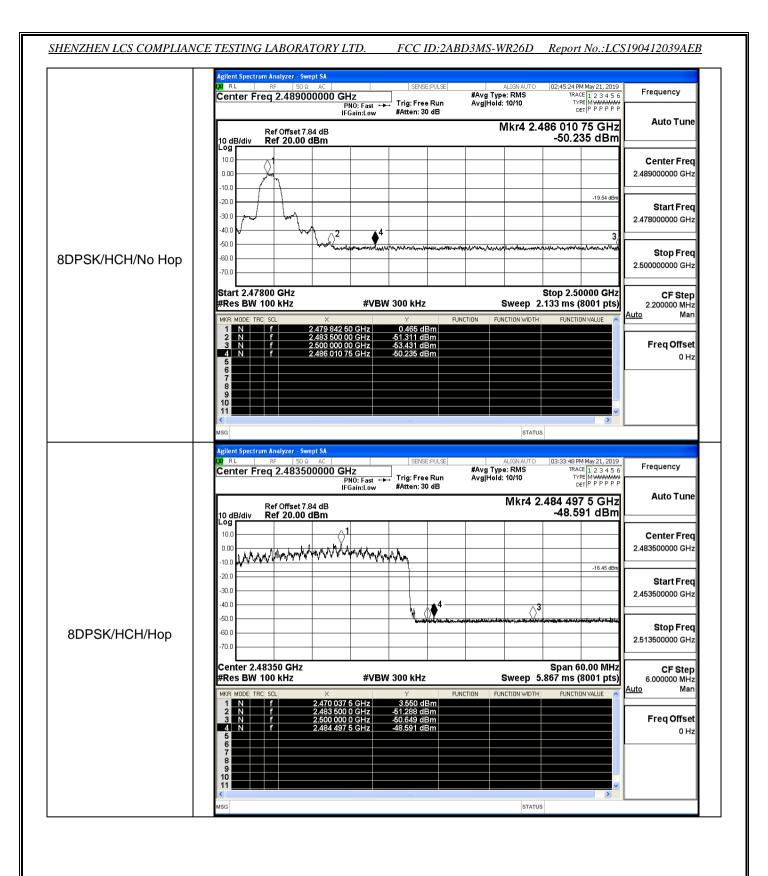
STATUS

B.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	4.380	Off	-50.396	-15.62	PASS	
05014	LCH	2402	4.492	On	-49.551	-15.51	PASS	
GFSK	нсн			2.263	Off	-49.883	-17.74	PASS
		2480	3.721	On	-49.587	-16.28	PASS	
	LCH			0.805	Off	-49.806	-19.2	PASS
		2402	4.139	On	-48.961	-15.86	PASS	
π/4DQPSK	нсн	2480	-0.016	Off	-48.776	-20.02	PASS	
			2.886	On	-49.463	-17.11	PASS	
			1.531	Off	-50.227	-18.47	PASS	
	LCH	2402	3.447	On	-49.301	-16.55	PASS	
8DPSK			0.465	Off	-50.235	-19.54	PASS	
	HCH	2480	3.550	On	-48.591	-16.45	PASS	



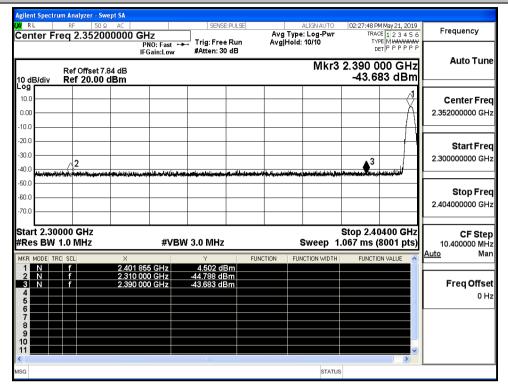




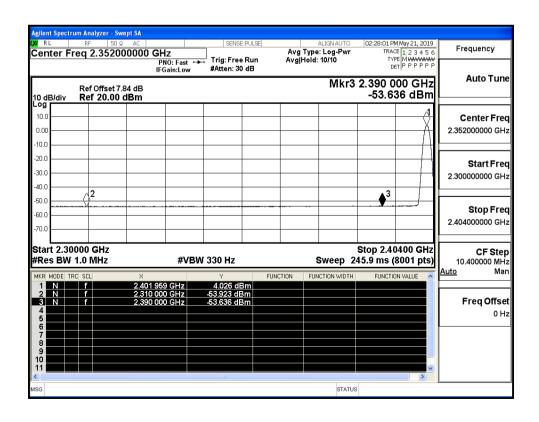
B.8 Restrict-band band-edge measurements

Test Mode	Hopping	Freq.	Power [dBm]	Gain	Ground Factor	E [dBuV/m]	Detector	Limit [dBuV/m]	Verdict
	Off	2310.0	-44.79	3.3	0	53.71	PEAK	74	PASS
	Off	2310.0	-53.92	3.3	0	44.58	AV	54	PASS
	Off	2390.0	-43.68	3.3	0	54.82	PEAK	74	PASS
	Off	2390.0	-53.64	3.3	0	44.86	AV	54	PASS
GFSK	Off	2483.5	-42.82	3.3	0	55.68	PEAK	74	PASS
	Off	2483.5	-53.28	3.3	0	45.22	AV	54	PASS
	Off	2500.0	-43.74	3.3	0	54.76	PEAK	74	PASS
	Off	2500.0	-53.14	3.3	0	45.36	AV	54	PASS
	Off	2310.0	-43.97	3.3	0	54.53	PEAK	74	PASS
	Off	2310.0	-53.81	3.3	0	44.69	AV	54	PASS
	Off	2390.0	-43.31	3.3	0	55.19	PEAK	74	PASS
	Off	2390.0	-53.42	3.3	0	45.08	AV	54	PASS
π/4DQPSK	Off	2483.5	-37.70	3.3	0	60.80	PEAK	74	PASS
	Off	2483.5	-52.06	3.3	0	46.44	AV	54	PASS
	Off	2500.0	-43.24	3.3	0	55.26	PEAK	74	PASS
	Off	2500.0	-53.21	3.3	0	45.29	AV	54	PASS
	Off	2310.0	-43.49	3.3	0	55.01	PEAK	74	PASS
	Off	2310.0	-53.71	3.3	0	44.79	AV	54	PASS
	Off	2390.0	-42.00	3.3	0	56.50	PEAK	74	PASS
	Off	2390.0	-53.60	3.3	0	44.90	AV	54	PASS
8DPSK	Off	2483.5	-38.51	3.3	0	59.99	PEAK	74	PASS
	Off	2483.5	-51.97	3.3	0	46.53	AV	54	PASS
	Off	2500.0	-42.48	3.3	0	56.02	PEAK	74	PASS
	Off	2500.0	-53.27	3.3	0	45.23	AV	54	PASS

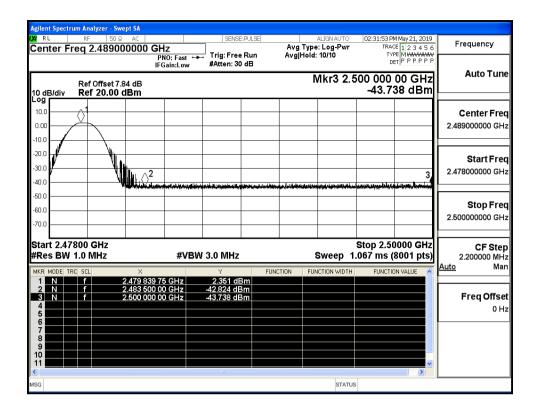




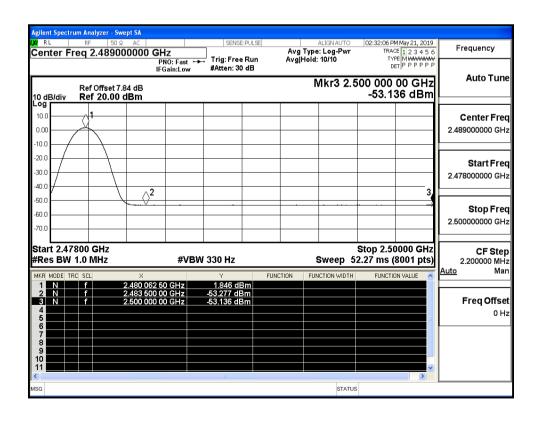
Restrict-band band-edge measurements_Hopping Off_ GFSK_Average (Low Channel)



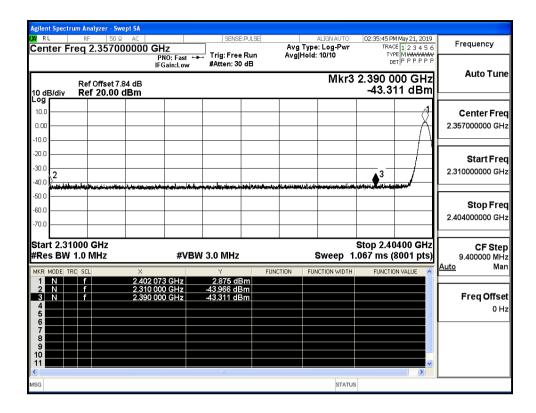
Restrict-band band-edge measurements_Hopping Off_ GFSK_PEAK (High Channel)



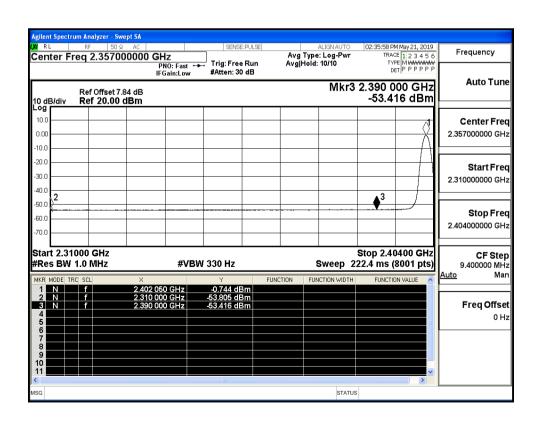
Restrict-band band-edge measurements_Hopping Off_ GFSK_Average (High Channel)



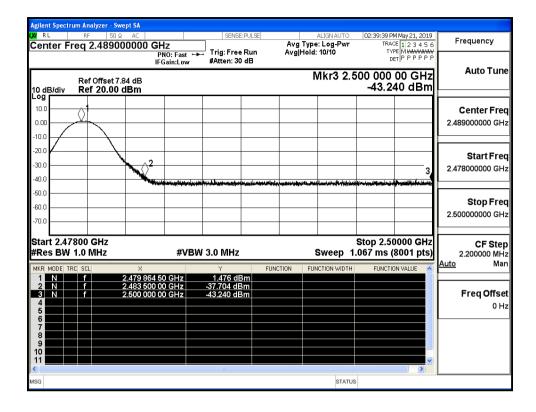
Restrict-band band-edge measurements_Hopping Off_π/4-DQPSK_PEAK (Low Channel)



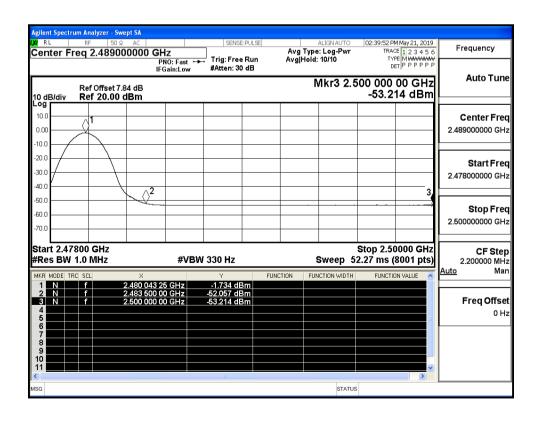
Restrict-band band-edge measurements_Hopping Off_π/4-DQPSK_Average (Low Channel)



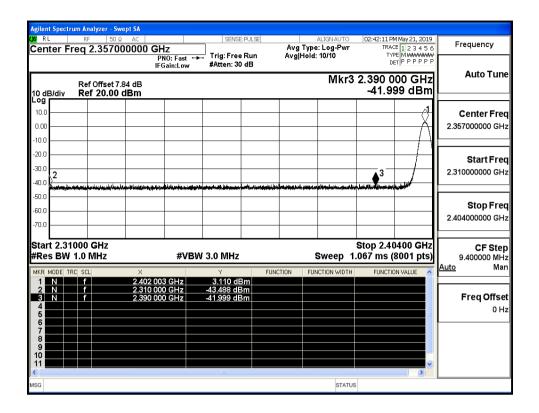
Restrict-band band-edge measurements_Hopping Off_π/4-DQPSK_PEAK (High Channel)



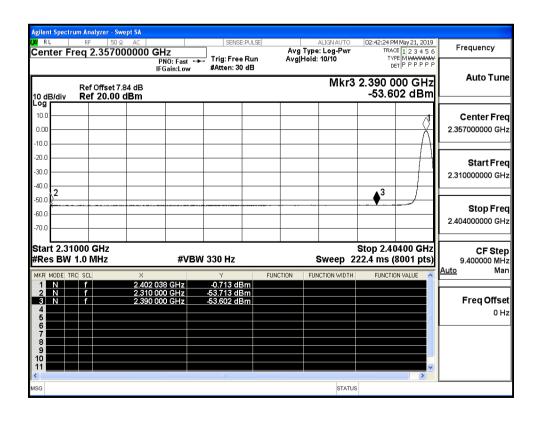
Restrict-band band-edge measurements_Hopping Off_π/4-DQPSK_Average (High Channel)



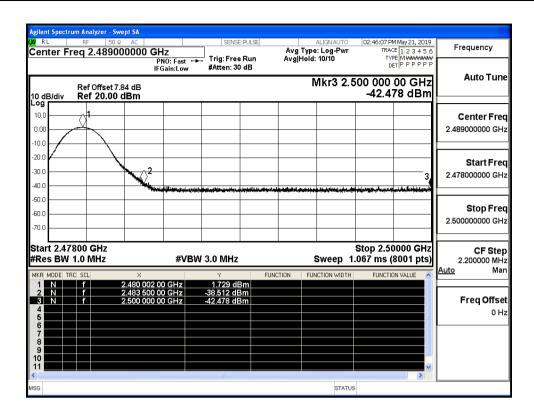
Restrict-band band-edge measurements_Hopping Off_8DPSK_PEAK (Low Channel)



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)

