Appendix A

RF Test Data for 2.4G WIFI (Conducted Measurement)

Product Name: Wireless AP/CPE/Access Point/Bridge Test Model: DIP9526K-H

Environmental Conditions

Temperature:	23.8 ° C				
Relative Humidity:	52.8%				
ATM Pressure:	100.0 kPa				
Test Engineer:	Wang Chuang				
Supervised by:	Tom Liu				

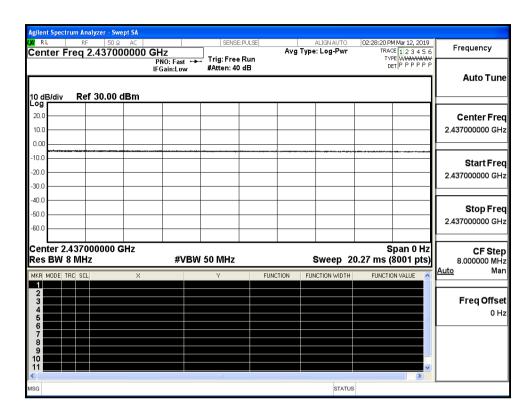
A.1 Duty Cycle

Test Mode	Test Channel	Ant	Duty Cycle[%]	Verdict
11B	2437	Ant0	100	PASS
11G	2437	Ant0	100	PASS
11N20	2437	Ant0	100	PASS
11N40	2437	Ant0	100	PASS

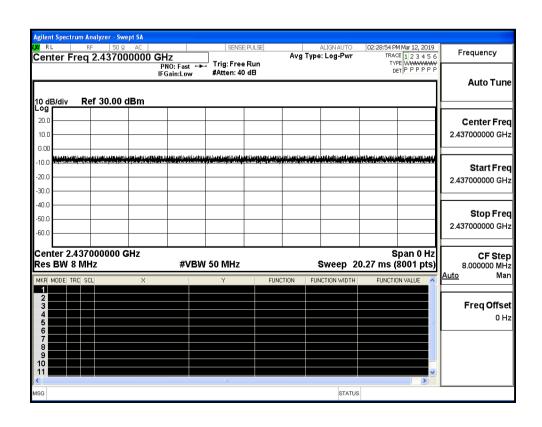
Test Mode	Test Channel	Ant	Duty Cycle[%]	Verdict
11B	2437	Ant1	100	PASS
11G	2437	Ant1	100	PASS
11N20	2437	Ant1	100	PASS
11N40	2437	Ant1	100	PASS

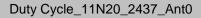
Duty Cycle_11B_2437_Ant0

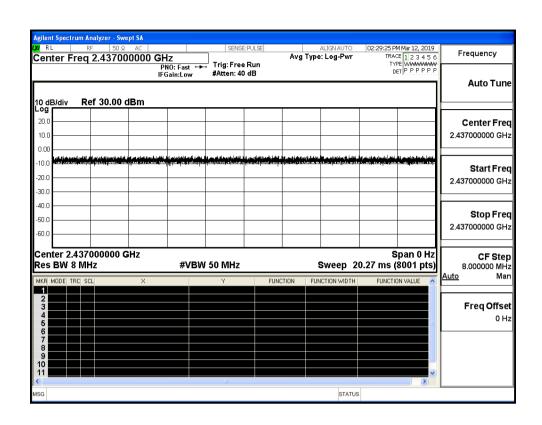
FCC ID: 2AJ6DTODAAIRAC



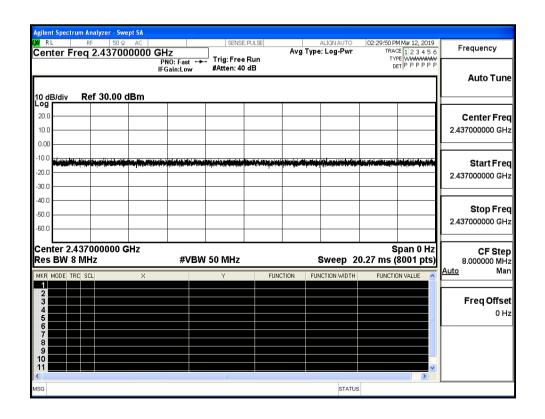
Duty Cycle_11G_2437_Ant0



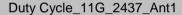


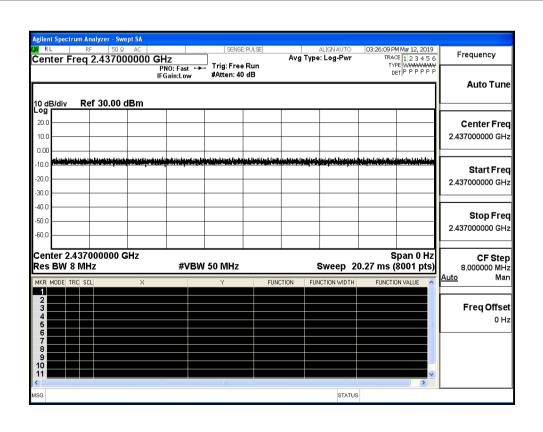


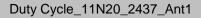
Duty Cycle_11N40_2437_Ant0

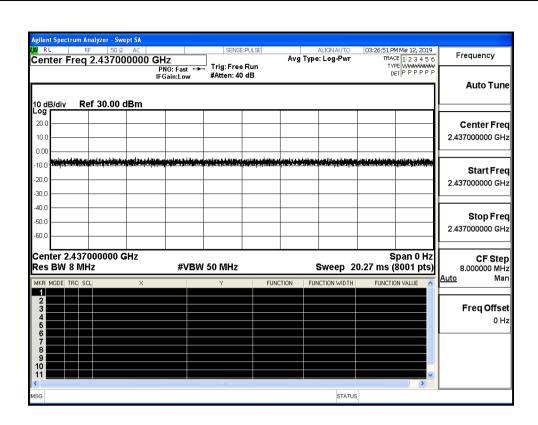


Duty Cycle_11B_2437_Ant1 gilent Spectrum Analyzer - Swept SA 03:25:40 PM Mar 12, 2019 TRACE 1 2 3 4 5 6 TYPE WWWWWWW DET P P P P P P Frequency Center Freq 2.437000000 GHz Avg Type: Log-Pwr PNO: Fast → Trig: Free Run IFGain:Low #Atten: 40 dB **Auto Tune** 10 dB/div Log Ref 30.00 dBm Center Freq 10.0 2.437000000 GHz 0.00 10.1 Start Freq -20.0 2.437000000 GHz 30.0 -40.1 Stop Freq -50.0 2.437000000 GHz Center 2.437000000 GHz Res BW 8 MHz CF Step 8.000000 MHz Span 0 Hz #VBW 50 MHz Sweep 20.27 ms (8001 pts) Man FUNCTION FUNCTION WIDTH Freq Offset 0 Hz

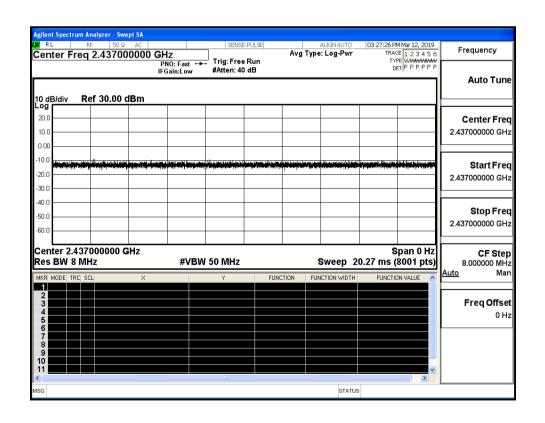








Duty Cycle_11N40_2437_Ant1



A.2 Maximum Conducted Output Power

		Meas.Level [dBm]					
Mode	Channel	Ant0	Ant1	Sum	Limit [dBm]	Verdict	
	LCH	0.63	0.66	/	24.00	PASS	
11B	MCH	1.19	1.08	/	24.00	PASS	
	HCH	0.77	0.69	/	24.00	PASS	
	LCH	3.59	3.51	/	24.00	PASS	
11G	MCH	4.34	4.03	/	24.00	PASS	
	HCH	4.06	3.66	/	24.00	PASS	
	LCH	3.50	3.46	6.49	20.99	PASS	
11N20	MCH	4.30	4.27	7.30	20.99	PASS	
	HCH	3.36	3.36	6.37	20.99	PASS	
	LCH	3.48	3.39	6.45	20.99	PASS	
11N40	MCH	3.42	3.36	6.40	20.99	PASS	
	HCH	4.23	4.02	7.14	20.99	PASS	

A.3 Maximum Power Spectral Density

Ant0

Mode	Channel	Meas.Level [dBm/30KHz]	Convert Factor	Result [dBm/3KHz]	Limit [dBm/3KHz]	Verdict
	LCH	-15.349	-10	-25.349	2.00	PASS
11B	MCH	-14.046	-10	-24.046	2.00	PASS
	HCH	-10.938	-10	-20.938	2.00	PASS
	LCH	-21.350	-10	-31.350	2.00	PASS
11G	MCH	-19.533	-10	-29.533	2.00	PASS
	НСН	-18.048	-10	-28.048	2.00	PASS
	LCH	-20.447	-10	-30.447	2.00	PASS
11N20	MCH	-18.405	-10	-28.405	2.00	PASS
	HCH	-18.308	-10	-28.308	2.00	PASS
	LCH	-21.661	-10	-31.661	2.00	PASS
11N40	MCH	-22.307	-10	-32.307	2.00	PASS
	HCH	-20.479	-10	-30.479	2.00	PASS

^{***}Note: The Convert Factor = 10*log(3KHz/30KHz) = -10

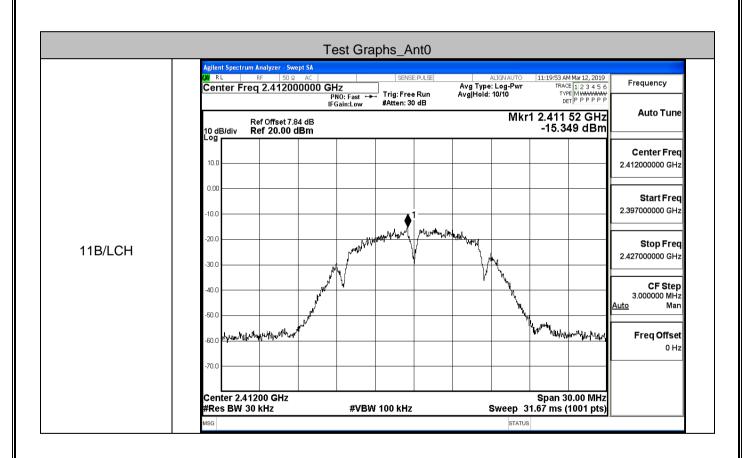
Ant1

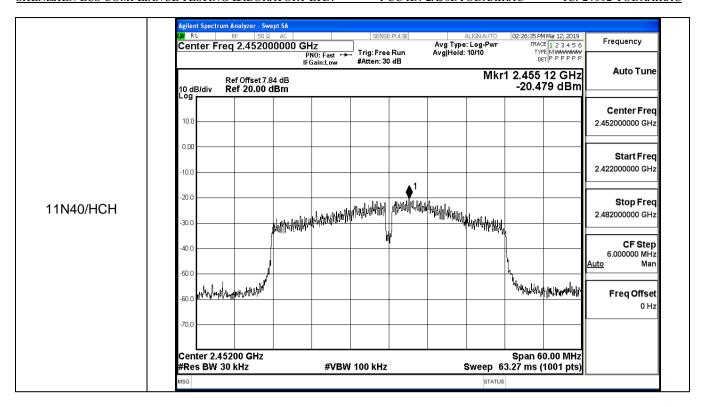
Anti						
Mode	Channel	Meas.Level [dBm/30KHz]	Convert Factor	Result [dBm/3KHz]	Limit [dBm/3KHz]	Verdict
	LCH	-13.827	-10	-23.827	2.00	PASS
11B	MCH	-13.662	-10	-23.662	2.00	PASS
	HCH	-14.870	-10	-24.870	2.00	PASS
	LCH	-20.915	-10	-30.915	2.00	PASS
11G	MCH	-19.724	-10	-29.724	2.00	PASS
	HCH	-18.873	-10	-28.873	2.00	PASS
	LCH	-20.717	-10	-30.717	2.00	PASS
11N20	MCH	-18.764	-10	-28.764	2.00	PASS
	НСН	-18.319	-10	-28.319	2.00	PASS
	LCH	-21.752	-10	-31.752	2.00	PASS
11N40	MCH	-21.923	-10	-31.923	2.00	PASS
	HCH	-20.625	-10	-30.625	2.00	PASS

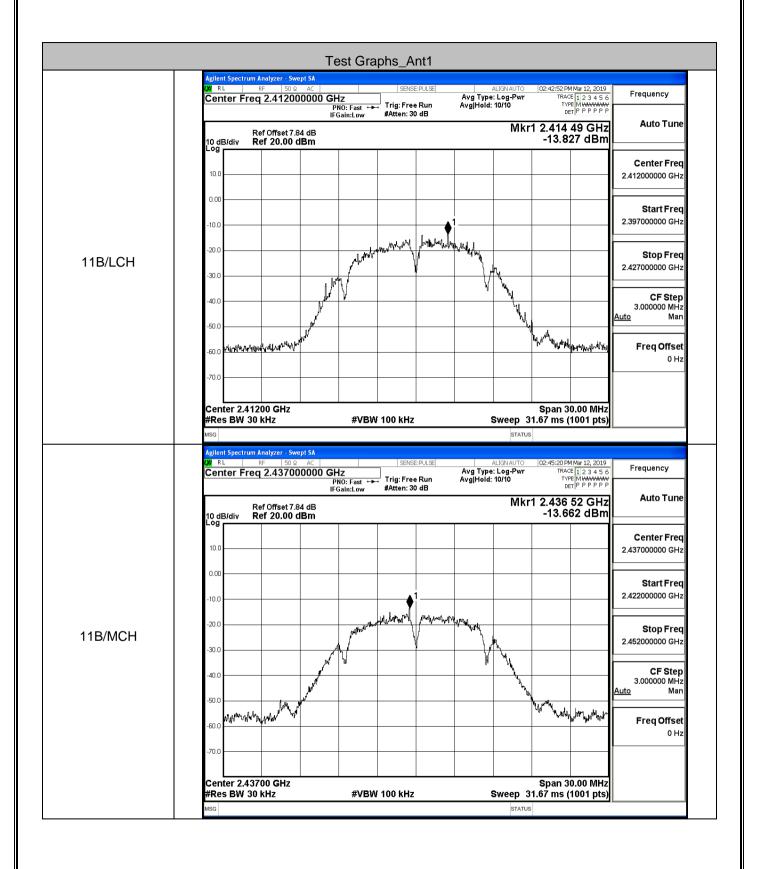
***Note: The Convert Factor = 10*log(3KHz/30KHz) = -10

Combined Ant0 and Ant1

Mode	Channel		Result [dBm/3KHz]	Limit	Verdict	
		Ant0	Ant1	Sum	[dBm/3KHz]	
	LCH	-30.447	-30.717	-27.570	-1.01	PASS
11N20	MCH	-28.405	-28.764	-25.570	-1.01	PASS
	HCH	-28.308	-28.319	-25.303	-1.01	PASS
	LCH	-31.661	-31.752	-28.696	-1.01	PASS
11N40	MCH	-32.307	-31.923	-29.100	-1.01	PASS
	HCH	-30.479	-30.625	-27.541	-1.01	PASS

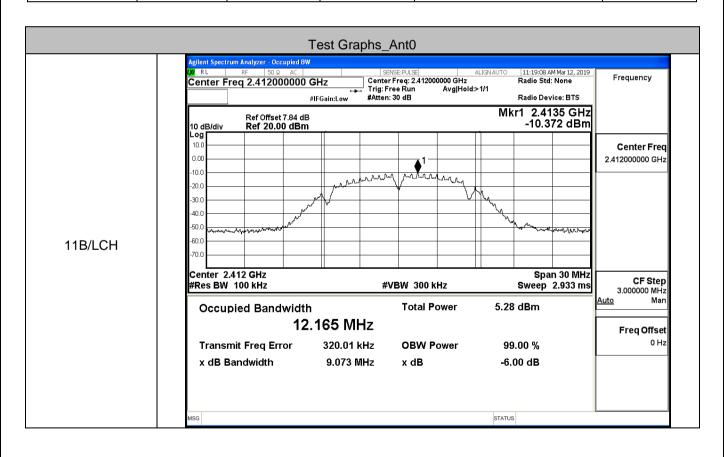


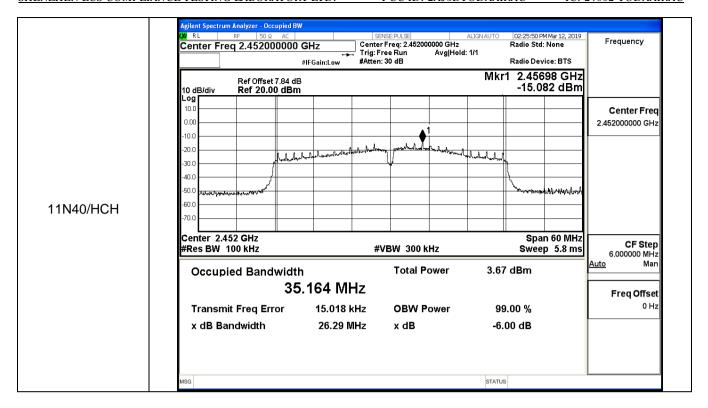


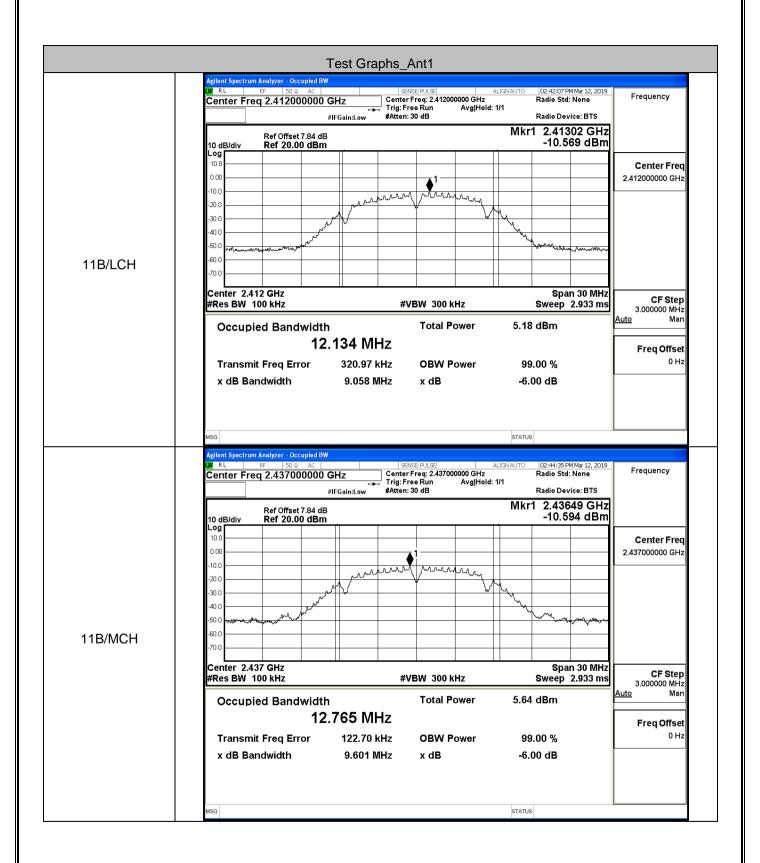


A.4 6dB Bandwidth

		6dB Bandwidth [MHz]			V "	
Mode	Channel	Ant0	Ant1	Limit [MHz]	Verdict	
	LCH	9.073	9.058	≥0.5	PASS	
11B	MCH	9.583	9.601	≥0.5	PASS	
	HCH	9.097	9.086	≥0.5	PASS	
	LCH	13.87	13.85	≥0.5	PASS	
11G	MCH	15.75	15.75	≥0.5	PASS	
	HCH	14.48	13.21	≥0.5	PASS	
	LCH	13.88	13.87	≥0.5	PASS	
11N20	MCH	16.37	16.37	≥0.5	PASS	
	HCH	15.03	15.03	≥0.5	PASS	
	LCH	33.85	33.88	≥0.5	PASS	
11N40	MCH	35.54	35.54	≥0.5	PASS	
	HCH	26.29	20.15	≥0.5	PASS	

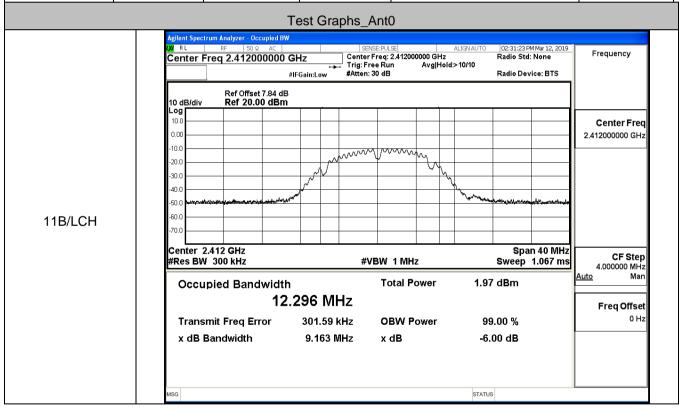


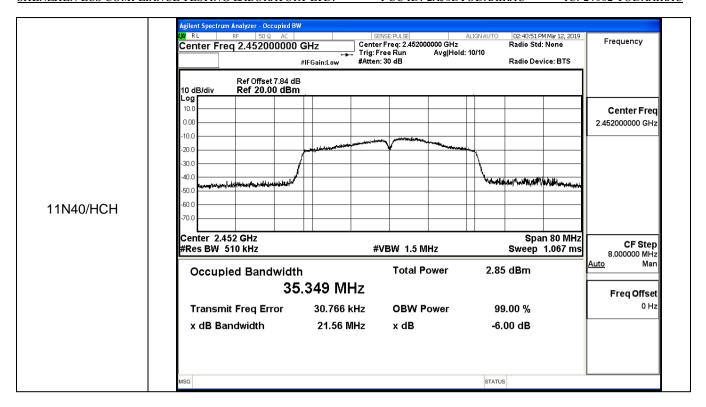


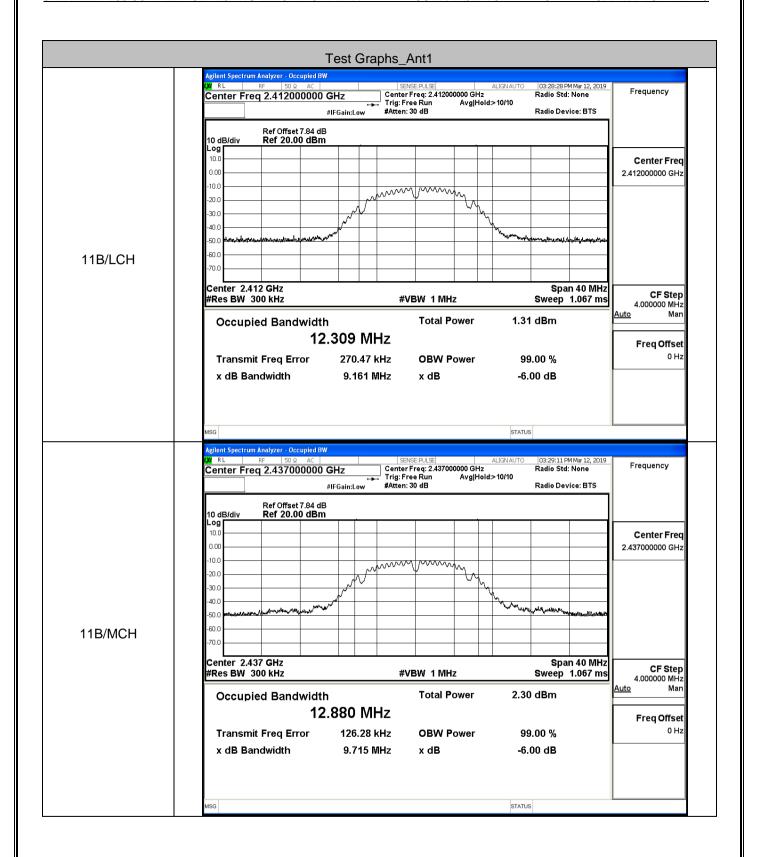


A.5 Occupied Bandwidth

	01	Occupied Bandwidth [MHz]		1 20024 5341103	Was Pat	
Mode	Channel	Ant0	Ant1	Limit [MHz]	Verdict	
	LCH	12.296	12.309	≥0.5	PASS	
11B	MCH	12.911	12.880	≥0.5	PASS	
	HCH	12.879	12.838	≥0.5	PASS	
	LCH	16.430	16.413	≥0.5	PASS	
11G	MCH	16.966	16.916	≥0.5	PASS	
	HCH	16.602	16.638	≥0.5	PASS	
	LCH	17.460	17.425	≥0.5	PASS	
11N20	MCH	17.901	17.844	≥0.5	PASS	
	HCH	17.611	17.577	≥0.5	PASS	
	LCH	35.731	35.732	≥0.5	PASS	
11N40	MCH	36.639	36.584	≥0.5	PASS	
	HCH	35.349	35.365	≥0.5	PASS	







A.6 RF Conducted Spurious Emissions

Ant0

Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
11B	LCH	-10.462	-43.724	-30.462	PASS
	MCH	-10.262	-44.474	-30.262	PASS
	HCH	-10.375	-44.546	-30.375	PASS
11G	LCH	-15.478	-44.149	-35.478	PASS
	MCH	-13.678	-43.836	-33.678	PASS
	HCH	-12.864	-44.032	-32.864	PASS
11N20	LCH	-15.908	-43.831	-35.908	PASS
	MCH	-13.471	-43.775	-33.471	PASS
	HCH	-13.761	-42.777	-33.761	PASS
11N40	LCH	-16.422	-43.832	-36.422	PASS
	MCH	-16.722	-43.896	-36.722	PASS
	HCH	-14.877	-44.756	-34.877	PASS

