

Conducted Output Power

Test Result

Conducted Output Power

Mode	Channel	Ant. 0 (dBm)	Total (dBm)	Limit (dBm)	Result
IEEE 802.11b	1	7.97	N/A	≤30	PASS
	6	11.64	N/A	≤30	PASS
	11	11.59	N/A	≤30	PASS
IEEE 802.11g	1	14.55	N/A	≤30	PASS
	6	17.71	N/A	≤30	PASS
	11	17.85	N/A	≤30	PASS
IEEE 802.11n_20	1	14.12	N/A	≤30	PASS
	6	17.17	N/A	≤30	PASS
	11	18.17	N/A	≤30	PASS
IEEE 802.11n_40	3	15.03	N/A	≤30	PASS
	6	17.37	N/A	≤30	PASS
	9	18.88	N/A	≤30	PASS

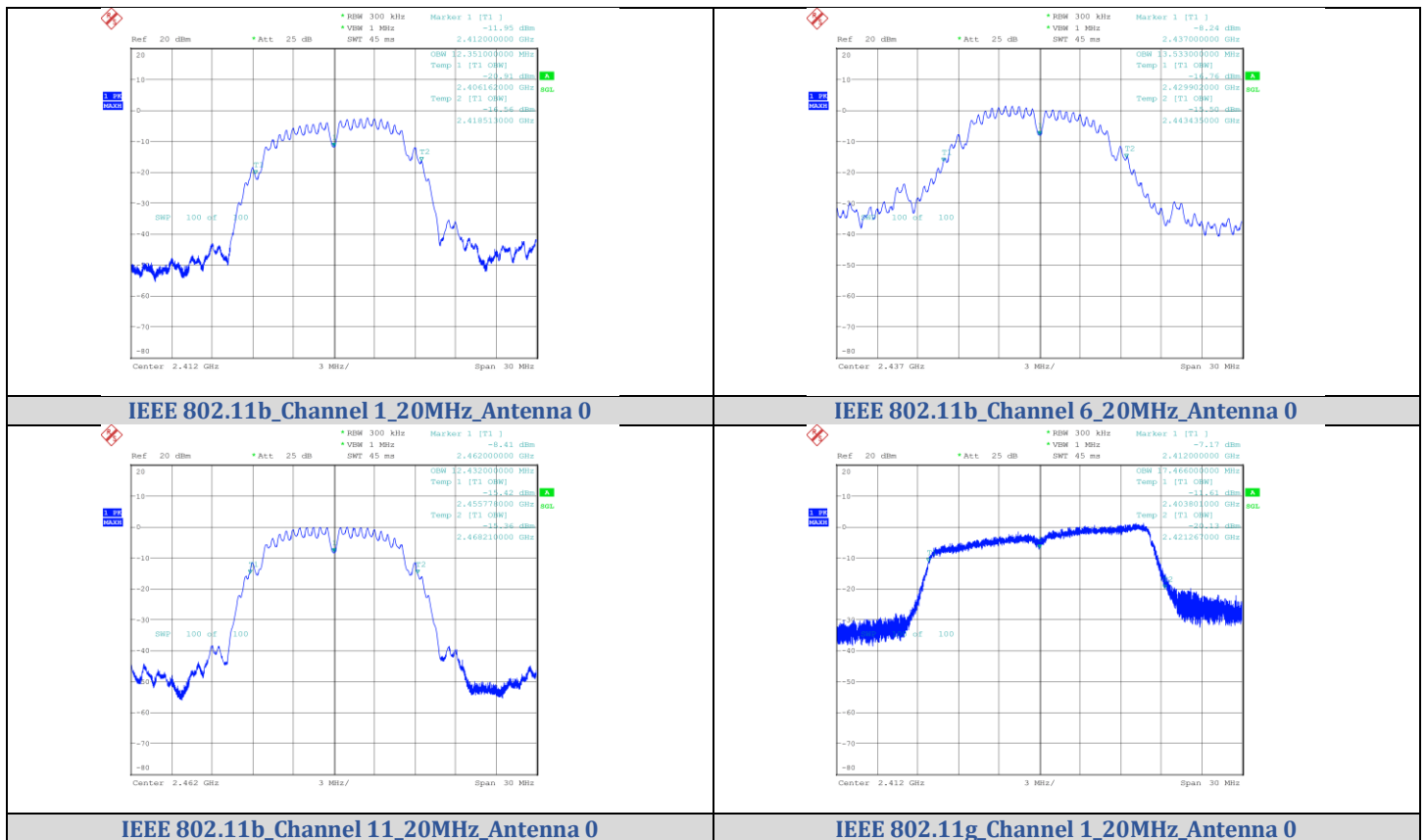


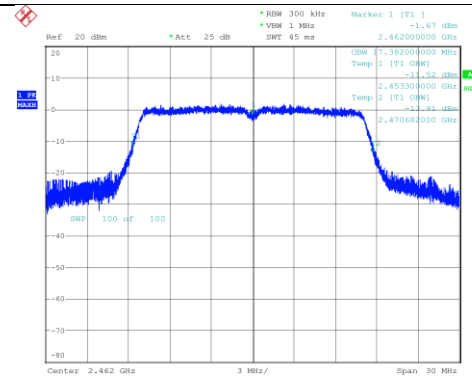
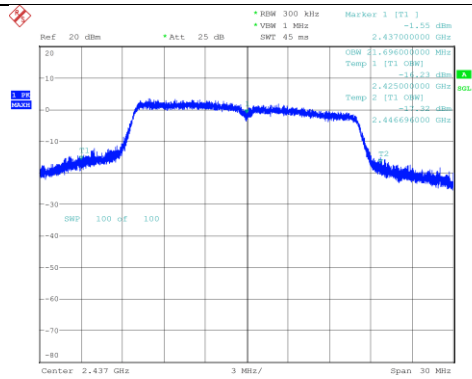
99% Bandwidth

Test Result

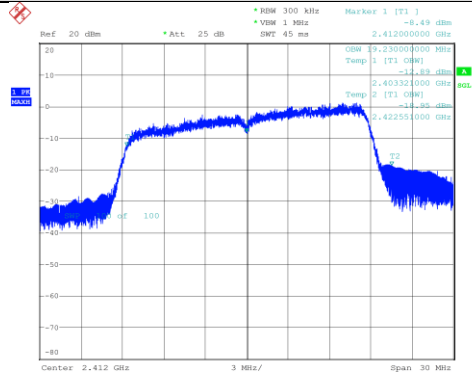
Mode	Channel	Ant.	Center Frequency (MHz)	99% BW (MHz)
IEEE 802.11b	1	0	2412	12.350
	6		2437	13.530
	11		2462	12.430
IEEE 802.11g	1		2412	17.470
	6		2437	21.700
	11		2462	17.380
IEEE 802.11n_20	1		2412	19.230
	6		2437	21.860
	11		2462	18.330
IEEE 802.11n_40	3		2422	37.220
	6		2437	37.120
	9		2452	37.760

Test Graphs

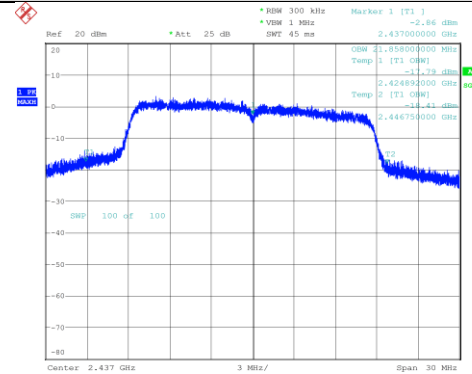




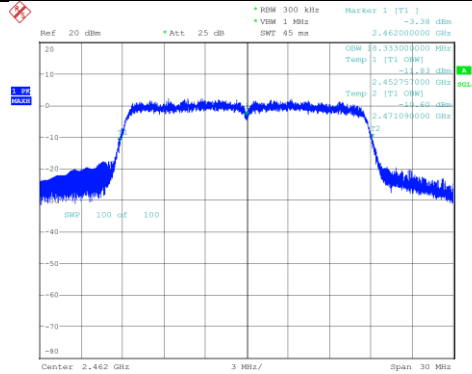
IEEE 802.11g_Channel 6_20MHz_Antenna 0



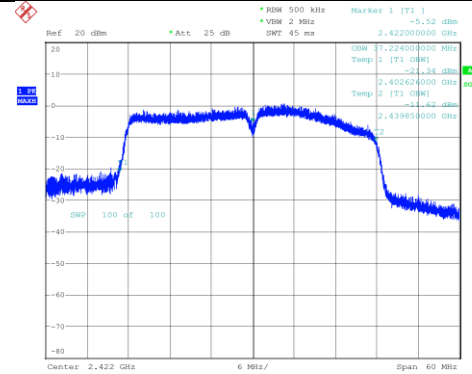
IEEE 802.11g_Channel 11_20MHz_Antenna 0



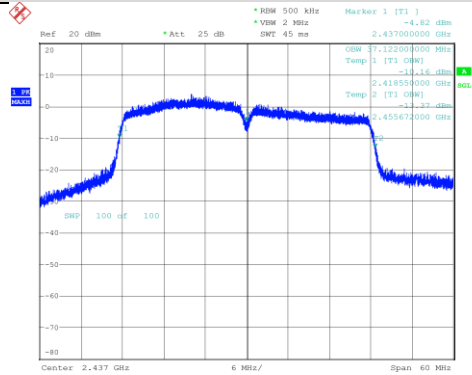
IEEE 802.11n_Channel 1_20MHz_Antenna 0



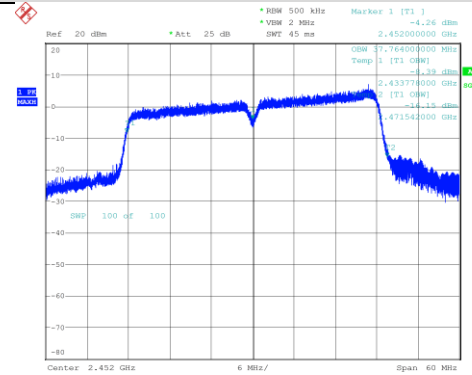
IEEE 802.11n_Channel 6_20MHz_Antenna 0



IEEE 802.11n_Channel 11_20MHz_Antenna 0



IEEE 802.11n_Channel 3_40MHz_Antenna 0

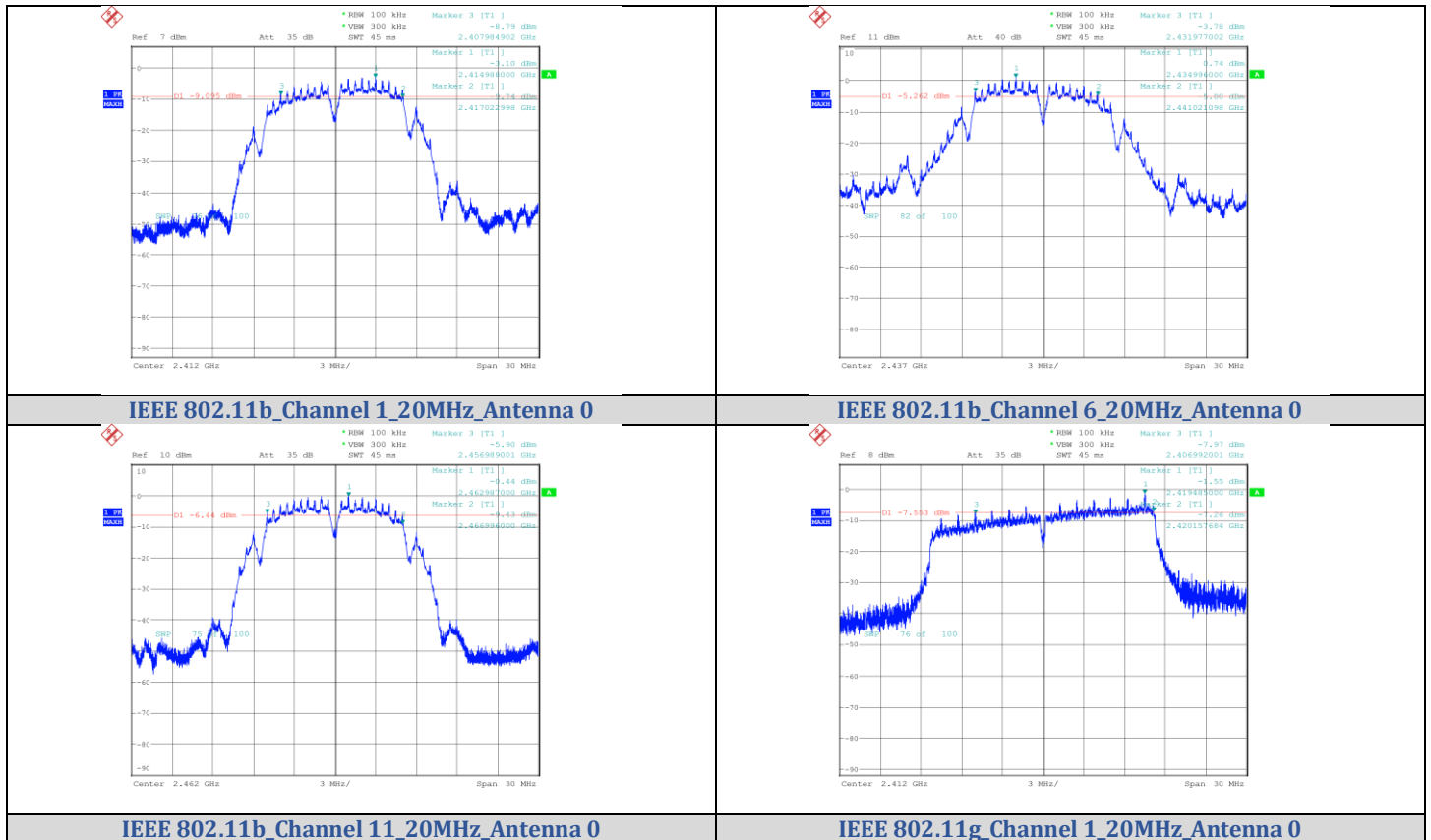


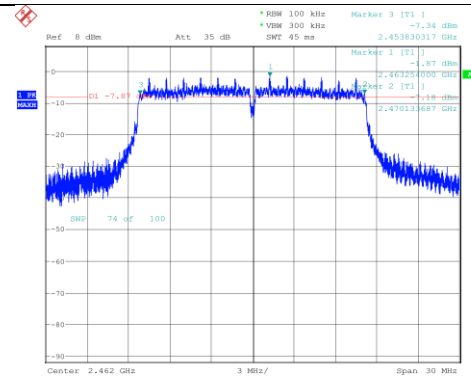
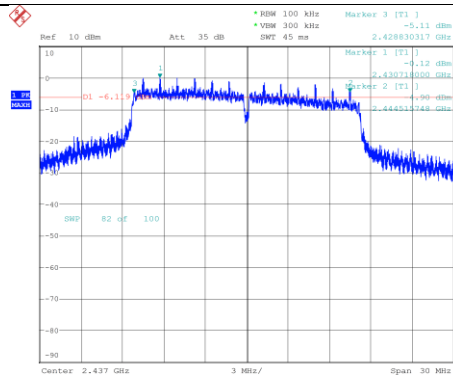
IEEE 802.11n_Channel 6_40MHz_Antenna 0

IEEE 802.11n_Channel 9_40MHz_Antenna 0

**6dB Bandwidth****Test Result**

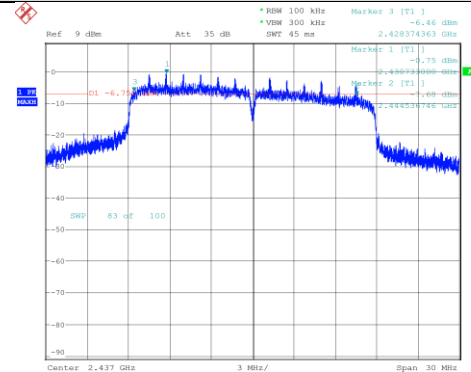
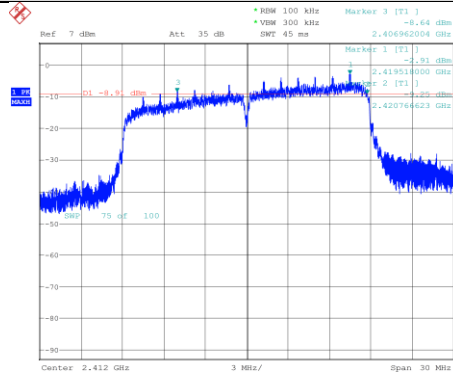
Mode	Channel	Ant.	Center Frequency (MHz)	6 dB Bandwidth (MHz)	Limit (MHz)	Result
IEEE 802.11b	1	0	2412	9.040	≥0.5	PASS
	6		2437	9.040		PASS
	11		2462	10.01		PASS
IEEE 802.11g	1		2412	13.17		PASS
	6		2437	15.69		PASS
	11		2462	16.30		PASS
IEEE 802.11n_20	1		2412	13.81		PASS
	6		2437	16.17		PASS
	11		2462	16.95		PASS
IEEE 802.11n_40	3		2422	31.37		PASS
	6		2437	32.49		PASS
	9		2452	29.32		PASS

Test Graphs



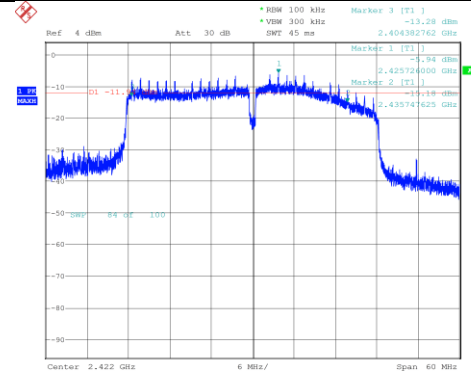
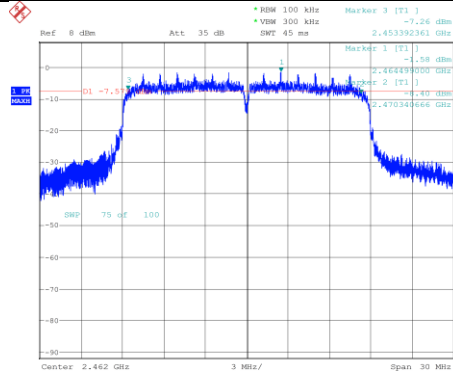
IEEE 802.11g_Channel 6_20MHz_Antenna 0

IEEE 802.11g_Channel 11_20MHz_Antenna 0



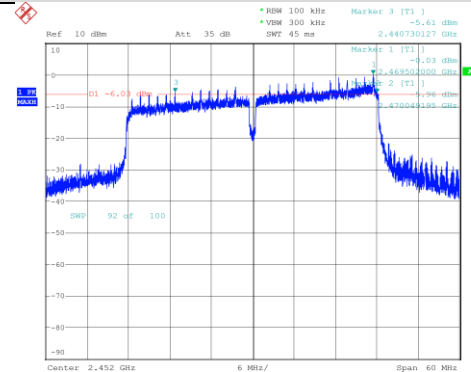
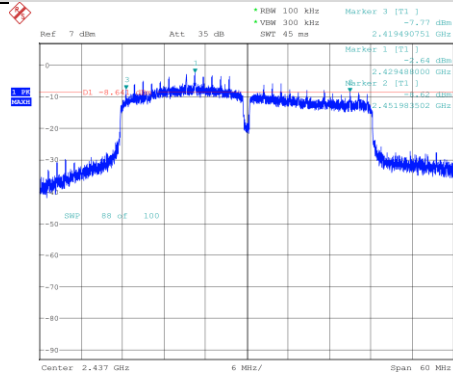
IEEE 802.11n_Channel 1_20MHz_Antenna 0

IEEE 802.11n_Channel 6_20MHz_Antenna 0



IEEE 802.11n_Channel 11_20MHz_Antenna 0

IEEE 802.11n_Channel 3_40MHz_Antenna 0



IEEE 802.11n_Channel 6_40MHz_Antenna 0

IEEE 802.11n_Channel 9_40MHz_Antenna 0

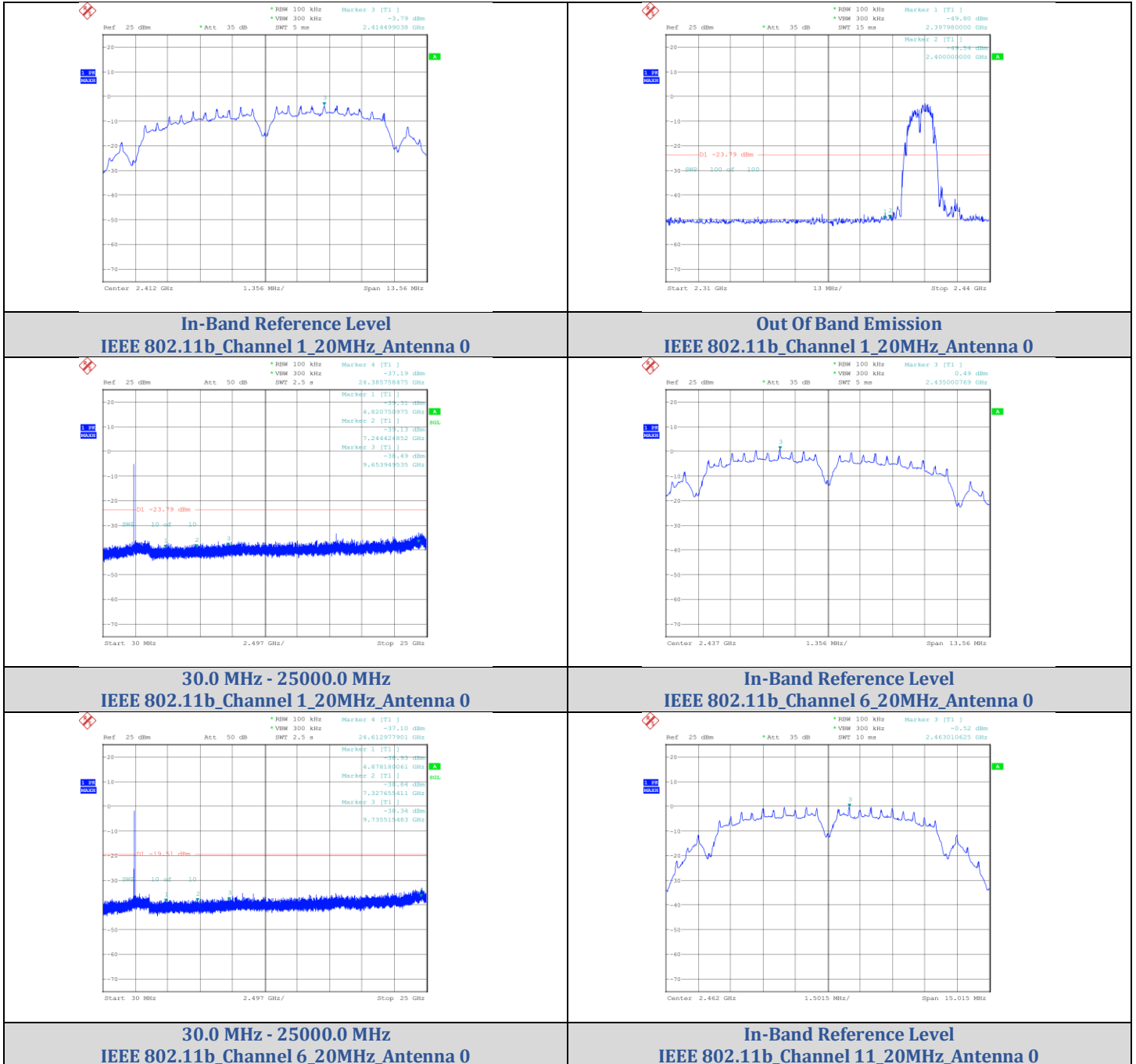
Conducted Out Of Band Emission

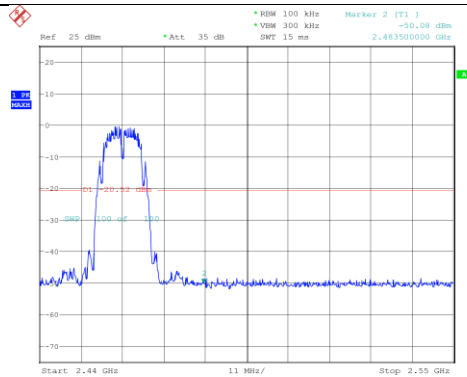
Test Result

Mode	Channel	Ant.	OOB Emission Frequency (MHz)	OOB Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result
IEEE 802.11b	1	0	2397.98	-47.623	-23.79	-23.833	PASS
			2400.00	-49.539	-23.79	-25.749	PASS
			4820.80	-39.311	-23.79	-15.521	PASS
			7244.40	-39.128	-23.79	-15.338	PASS
			9653.90	-38.486	-23.79	-14.696	PASS
	6		24385.8	-33.166	-23.79	-9.376	PASS
			4878.18	-38.929	-19.51	-19.419	PASS
			7327.66	-38.837	-19.51	-19.327	PASS
			9735.52	-38.344	-19.51	-18.834	PASS
			24613.0	-33.391	-19.51	-13.881	PASS
	11		2483.50	-50.077	-20.52	-29.557	PASS
			4938.11	-37.778	-20.52	-17.258	PASS
			7366.77	-39.185	-20.52	-18.665	PASS
			9851.21	-38.070	-20.52	-17.550	PASS
			24587.2	-33.553	-20.52	-13.033	PASS
IEEE 802.11g	1		2398.82	-37.449	-21.55	-15.899	PASS
			2400.00	-38.261	-21.55	-16.711	PASS
			4839.90	-39.607	-21.55	-18.057	PASS
			7233.60	-38.874	-21.55	-17.324	PASS
			9644.80	-38.164	-21.55	-16.614	PASS
	6		24679.6	-32.826	-21.55	-11.276	PASS
			4874.02	-38.445	-19.99	-18.455	PASS
			7299.36	-37.650	-19.99	-17.660	PASS
			9751.33	-38.046	-19.99	-18.056	PASS
			24676.2	-32.279	-19.99	-12.289	PASS
	11		2483.50	-42.716	-21.92	-20.796	PASS
			4917.30	-38.889	-21.92	-16.969	PASS
			7367.61	-38.360	-21.92	-16.440	PASS
			9864.52	-38.017	-21.92	-16.097	PASS
			24651.3	-32.861	-21.92	-10.941	PASS
IEEE 802.11n_20	1		2398.82	-38.375	-22.43	-15.945	PASS
			2400.00	-40.318	-22.43	-17.888	PASS
			4809.10	-38.967	-22.43	-16.537	PASS
			7253.60	-39.017	-22.43	-16.587	PASS
			9667.30	-37.819	-22.43	-15.389	PASS
	6		24352.5	-33.053	-22.43	-10.623	PASS
			4889.00	-38.377	-20.82	-17.557	PASS
			7305.18	-39.102	-20.82	-18.282	PASS
			9752.16	-38.970	-20.82	-18.150	PASS
			24864.3	-32.536	-20.82	-11.716	PASS
	11		2483.50	-41.814	-21.86	-19.954	PASS
			4925.62	-38.880	-21.86	-17.020	PASS
			7367.61	-39.049	-21.86	-17.189	PASS
			9857.86	-38.250	-21.86	-16.390	PASS
			24138.6	-33.035	-21.86	-11.175	PASS
IEEE 802.11n_40	3		2397.57	-28.618	-25.94	-2.678	PASS
			2400.00	-33.672	-25.94	-7.732	PASS
			4837.40	-38.188	-25.94	-12.248	PASS
			7297.70	-38.514	-25.94	-12.574	PASS
			9703.10	-38.104	-25.94	-12.164	PASS
			24548.1	-32.854	-25.94	-6.914	PASS
	6		4843.22	-39.387	-22.65	-16.737	PASS

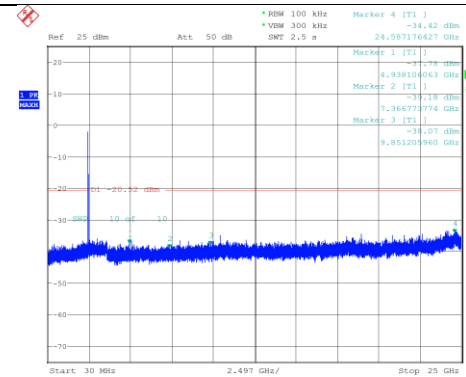
	9	7280.21	-37.498	-22.65	-14.848	PASS
		9731.35	-38.561	-22.65	-15.911	PASS
		24539.7	-33.592	-22.65	-10.942	PASS
		2483.50	-32.109	-20.1	-12.009	PASS
		4924.79	-38.817	-20.1	-18.717	PASS
		7372.60	-38.164	-20.1	-18.064	PASS
		9801.27	-37.590	-20.1	-17.490	PASS
		24677.9	-31.527	-20.1	-11.427	PASS

Test Graphs

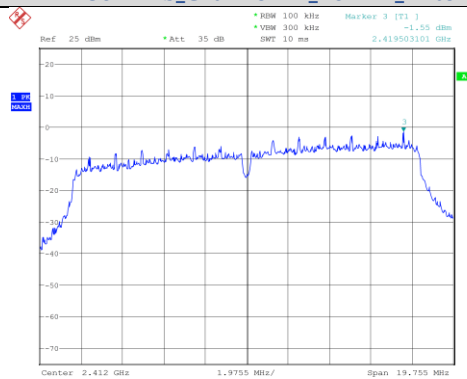




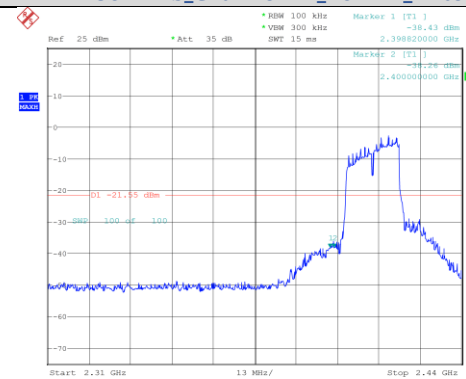
Out Of Band Emission
IEEE 802.11b_Channel 11_20MHz_Antenna 0



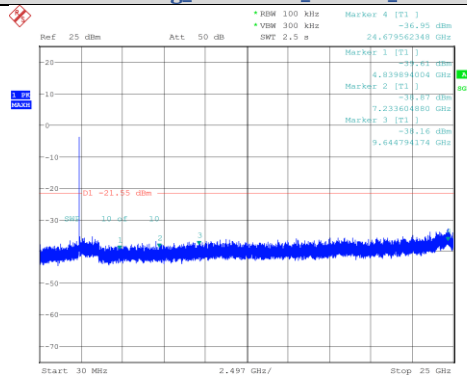
30.0 MHz - 25000.0 MHz
IEEE 802.11b_Channel 11_20MHz_Antenna 0



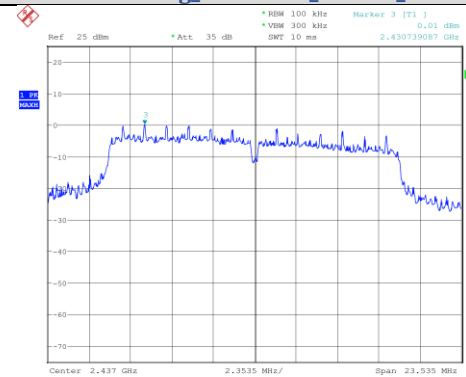
In-Band Reference Level
IEEE 802.11g_Channel 1_20MHz_Antenna 0



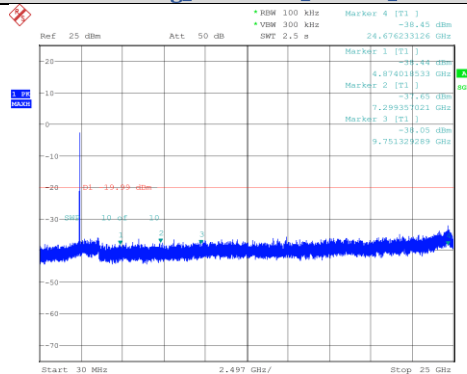
Out Of Band Emission
IEEE 802.11g_Channel 1_20MHz_Antenna 0



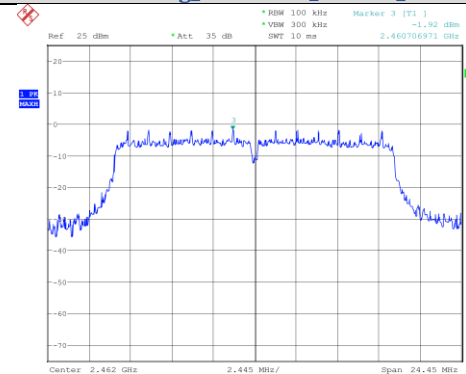
30.0 MHz - 25000.0 MHz
IEEE 802.11g_Channel 1_20MHz_Antenna 0



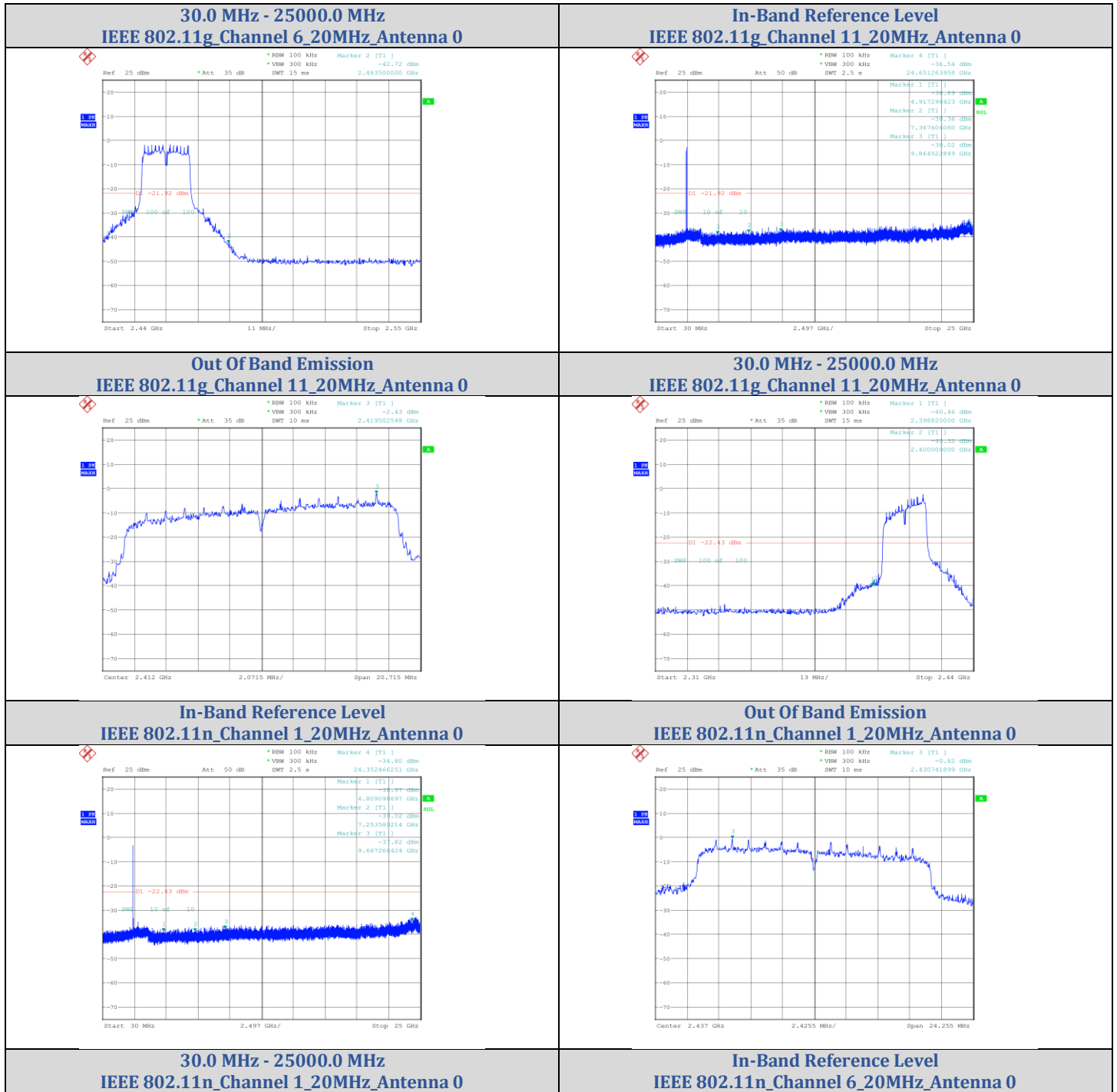
In-Band Reference Level
IEEE 802.11g_Channel 6_20MHz_Antenna 0

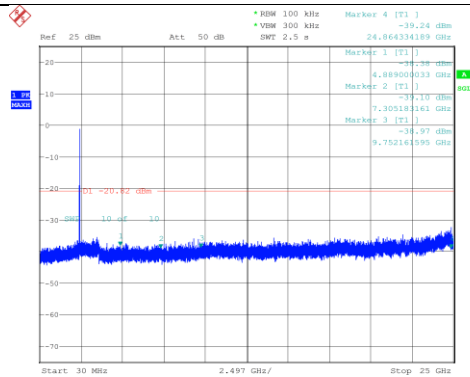


30.0 MHz - 25000.0 MHz
IEEE 802.11g_Channel 1_20MHz_Antenna 0

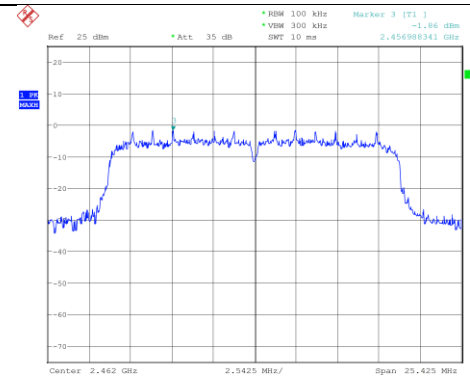


In-Band Reference Level
IEEE 802.11g_Channel 6_20MHz_Antenna 0

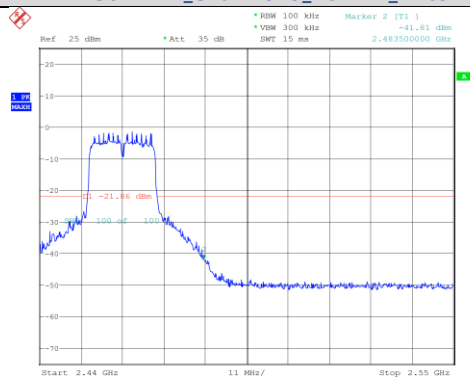




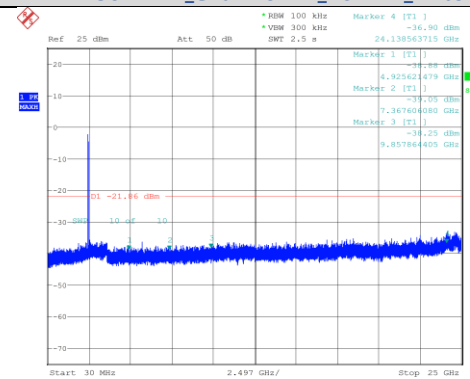
30.0 MHz - 25000.0 MHz
IEEE 802.11n_Channel 6_20MHz_Antenna 0



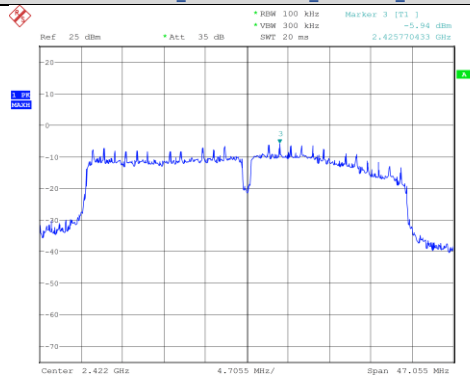
In-Band Reference Level
IEEE 802.11n_Channel 11_20MHz_Antenna 0



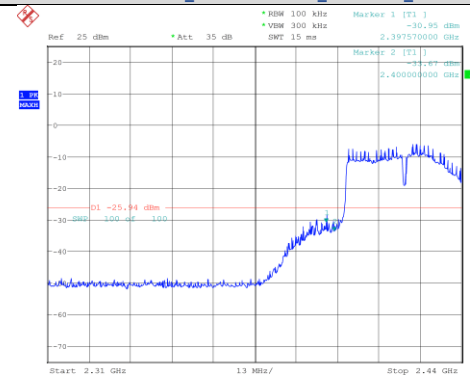
Out Of Band Emission
IEEE 802.11n_Channel 11_20MHz_Antenna 0



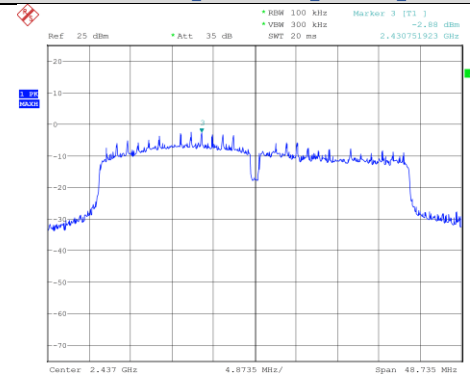
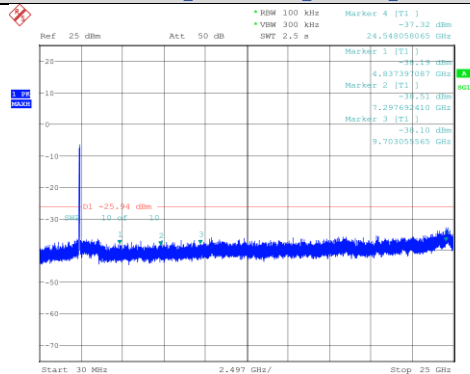
30.0 MHz - 25000.0 MHz
IEEE 802.11n_Channel 11_20MHz_Antenna 0

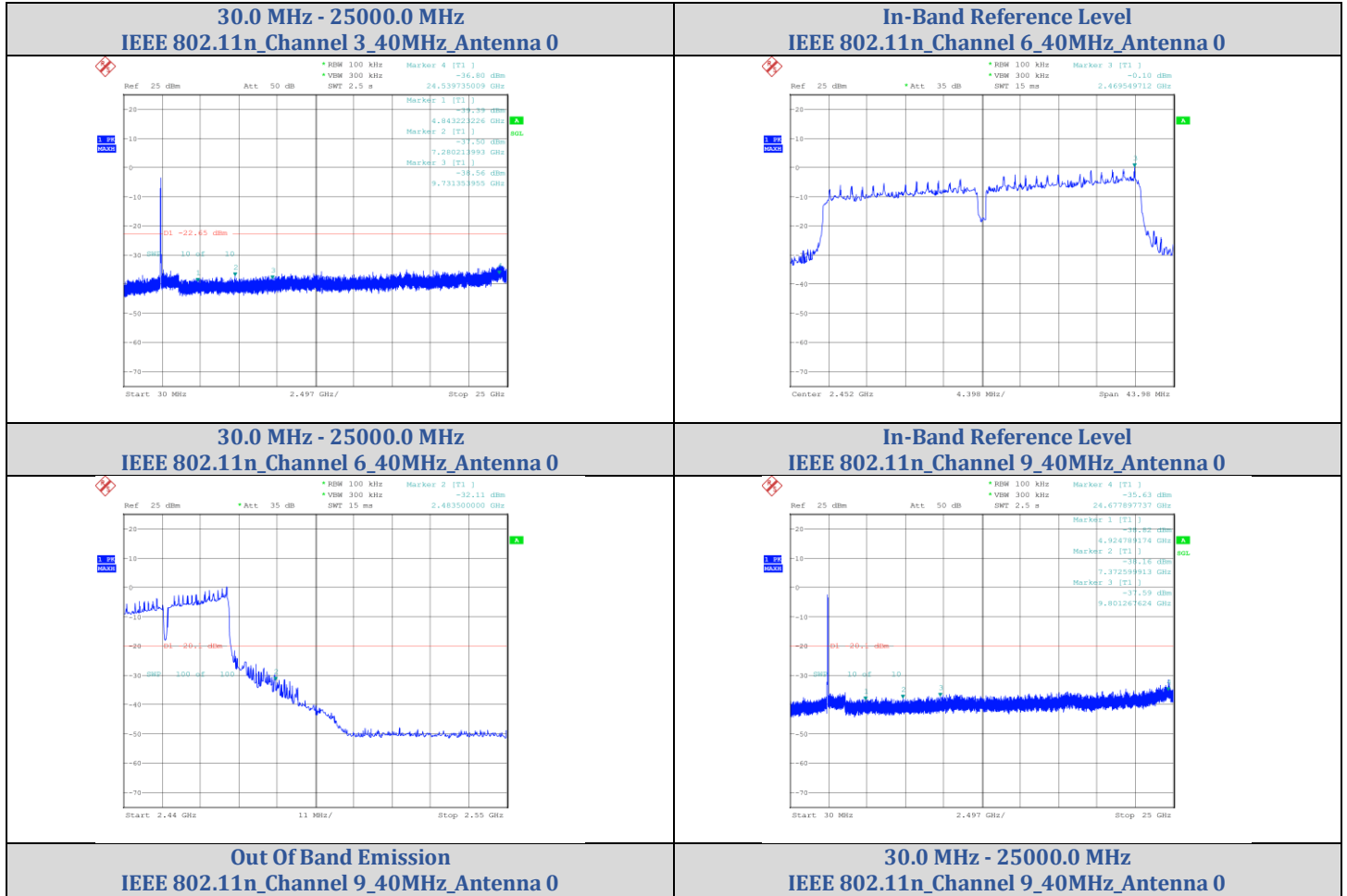


In-Band Reference Level
IEEE 802.11n_Channel 3_40MHz_Antenna 0



Out Of Band Emission
IEEE 802.11n_Channel 3_40MHz_Antenna 0



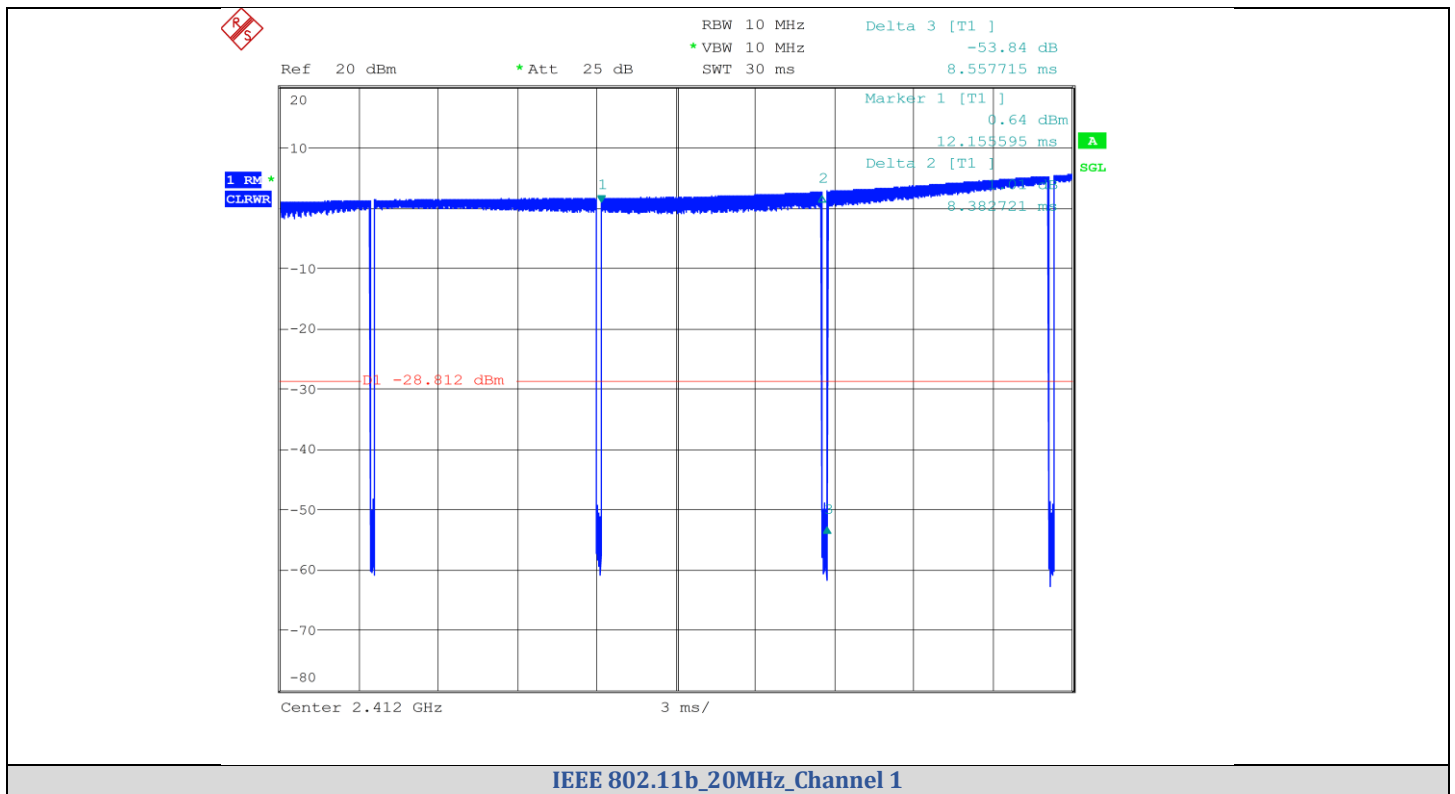


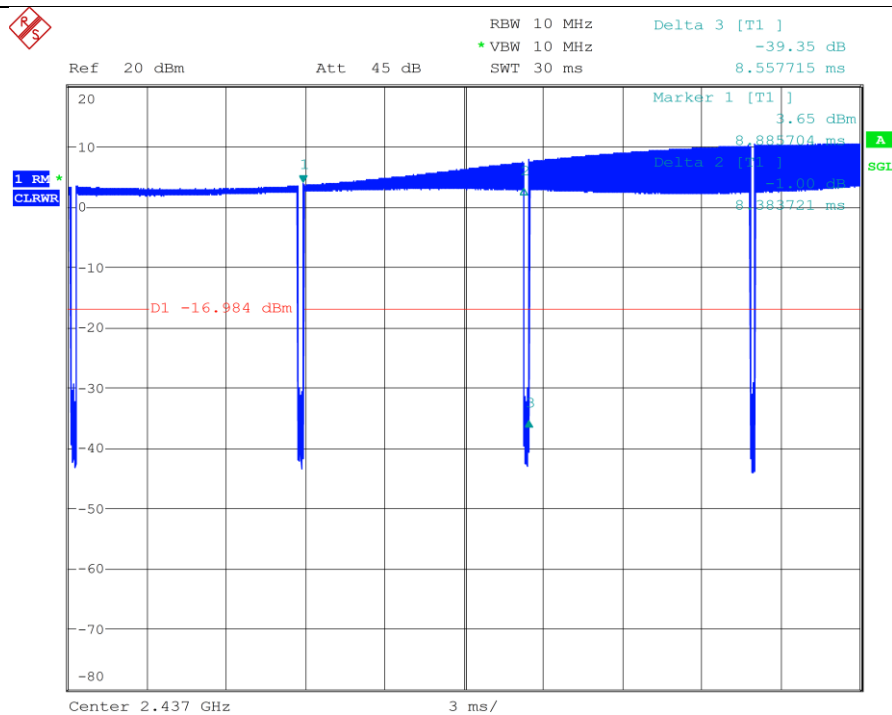
Duty Cycle

Test Result

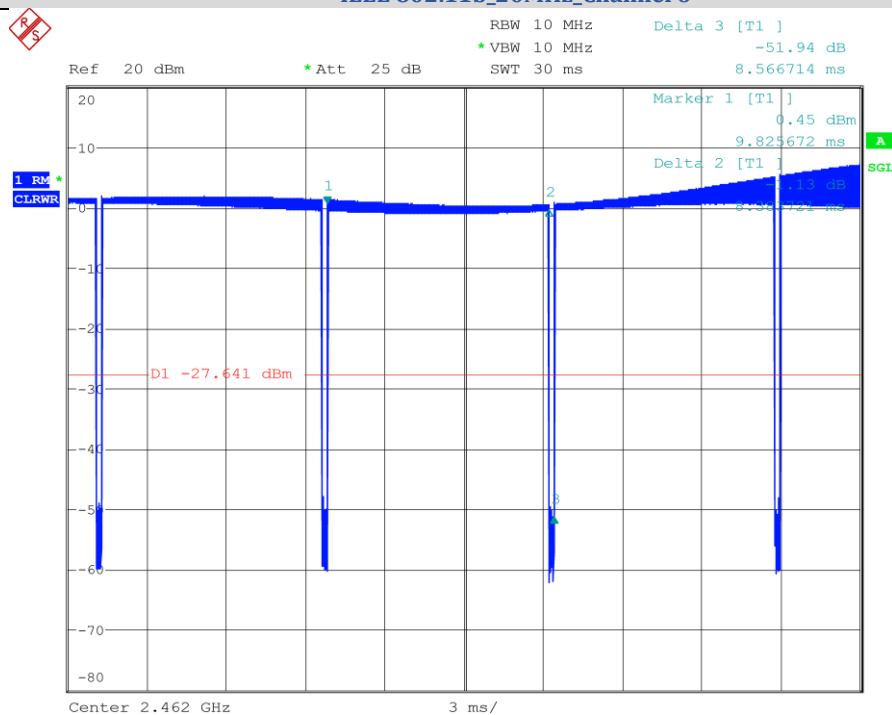
Mode	Data rates	Channel	Antenna	On Time (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle (linear)	Duty Cycle Factor (dB)
IEEE 802.11b	1	1	1	8.383	8.558	97.96	0.9796	0.0895
		6		8.384	8.558	97.97	0.9797	0.0891
		11		8.384	8.567	97.86	0.9786	0.0939
IEEE 802.11g		1		1.396	1.564	89.26	0.8926	0.4934
		6		1.396	1.564	89.26	0.8926	0.4934
		11		1.396	1.645	84.86	0.8486	0.713
IEEE 802.11n_20	MCS 0	1		1.178	1.355	86.94	0.8694	0.6078
		6		1.176	1.372	85.71	0.8571	0.6697
		11		1.177	1.347	87.43	0.8743	0.5834
IEEE 802.11n_40		3	0.589	0.766	76.86	0.7686	1.143	
		6	0.589	0.784	75.07	0.7507	1.2453	
		9	0.588	0.766	76.80	0.7680	1.1464	

Test Graphs

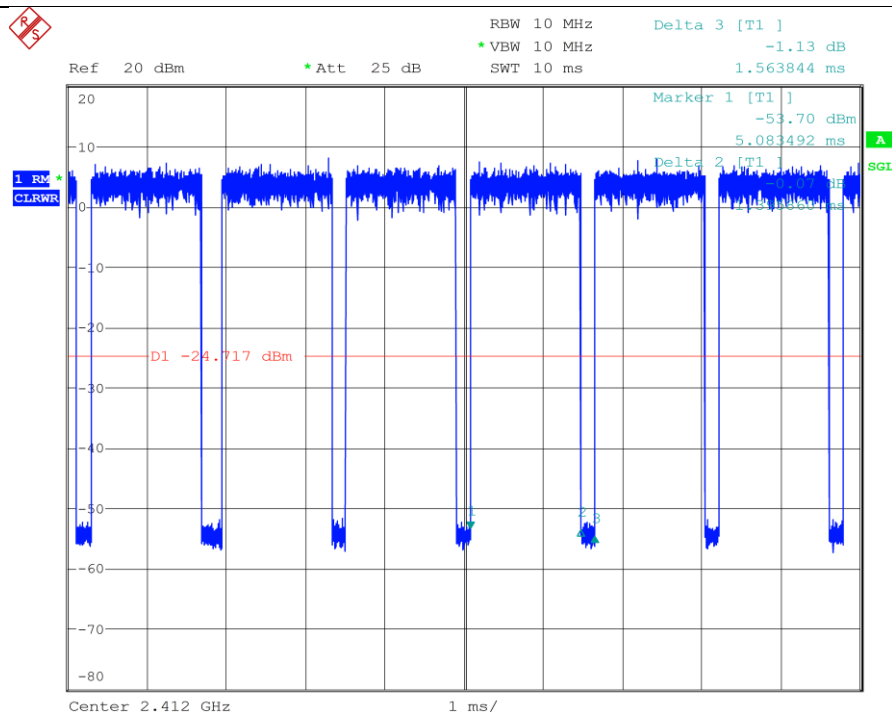




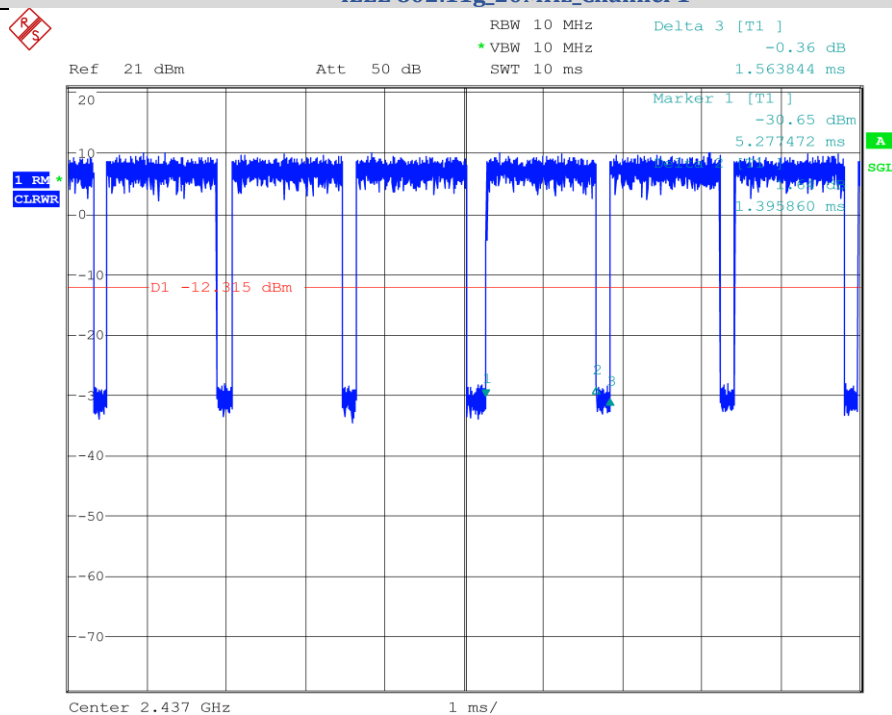
IEEE 802.11b_20MHz_Channel 6



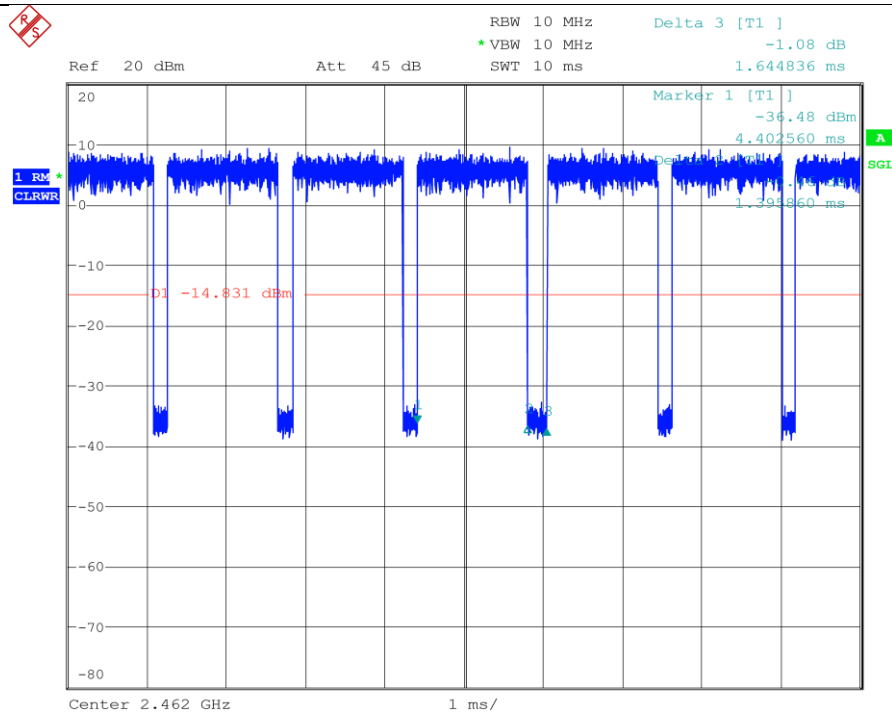
IEEE 802.11b_20MHz_Channel 11



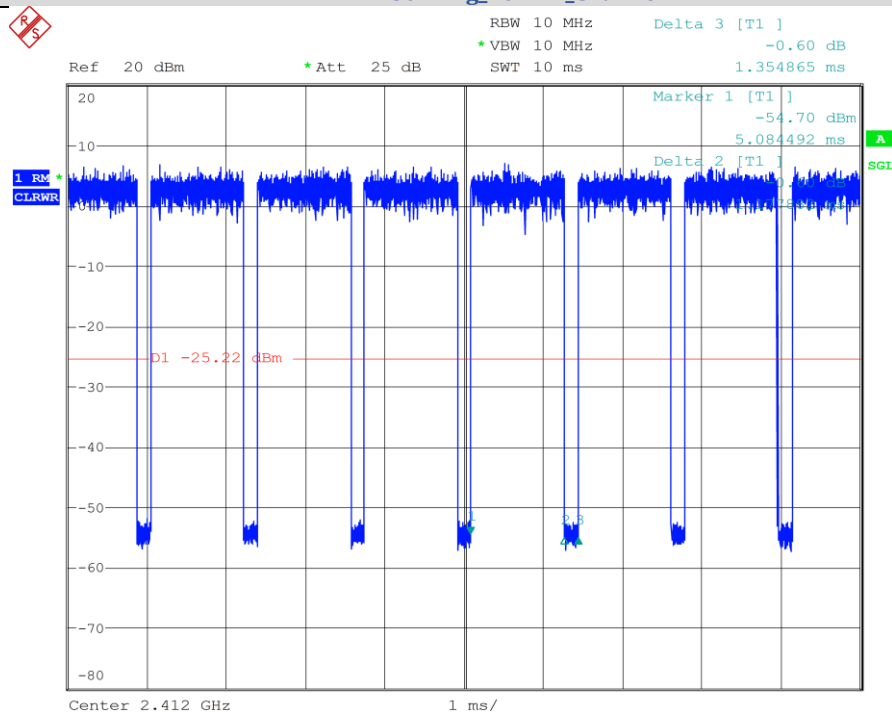
IEEE 802.11g_20MHz_Channel 1



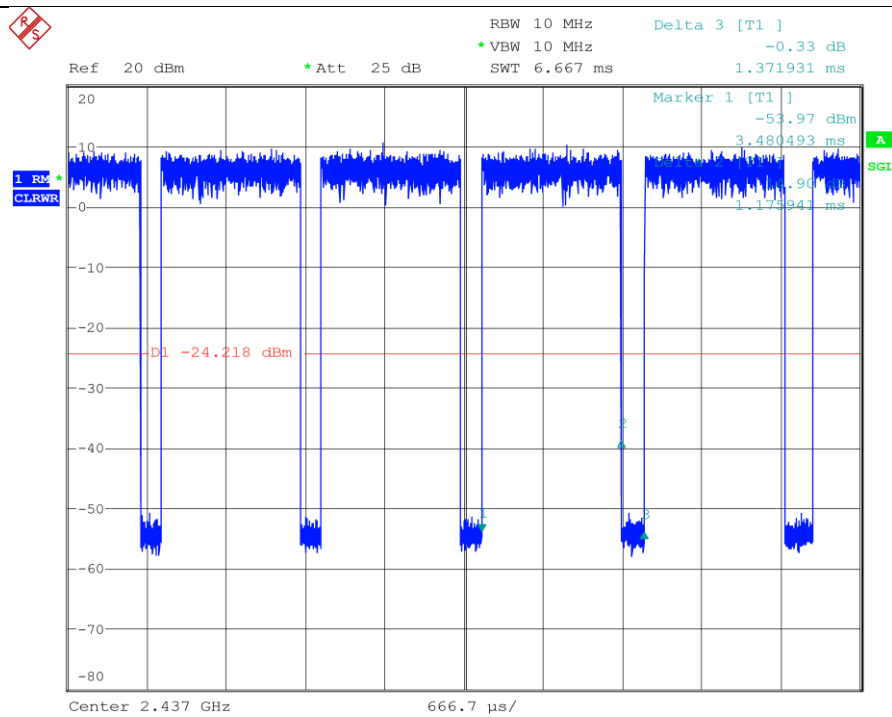
IEEE 802.11g_20MHz_Channel 6



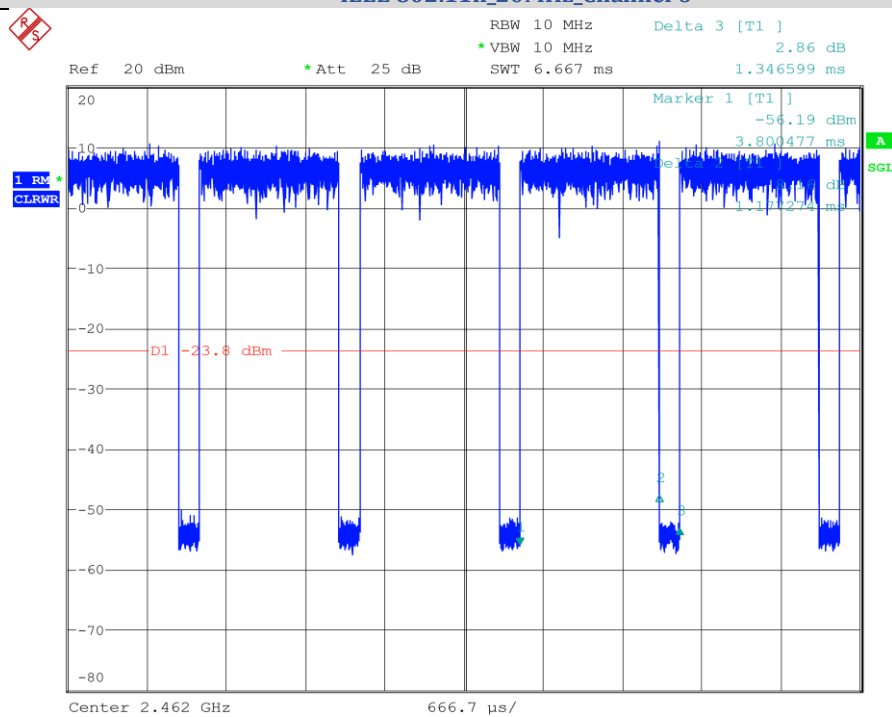
IEEE 802.11g_20MHz_Channel 11



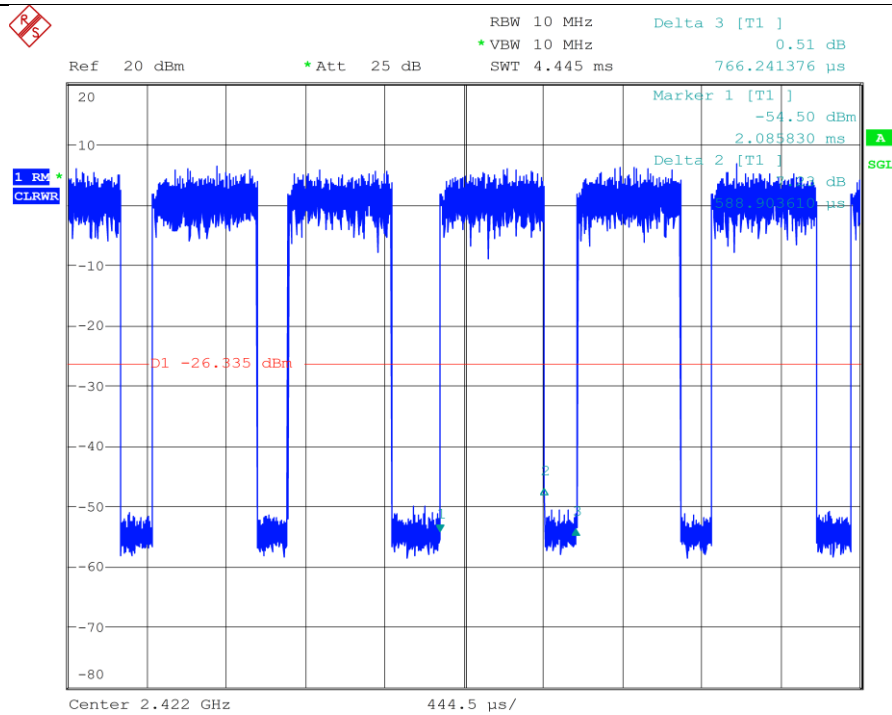
IEEE 802.11n_20MHz_Channel 1



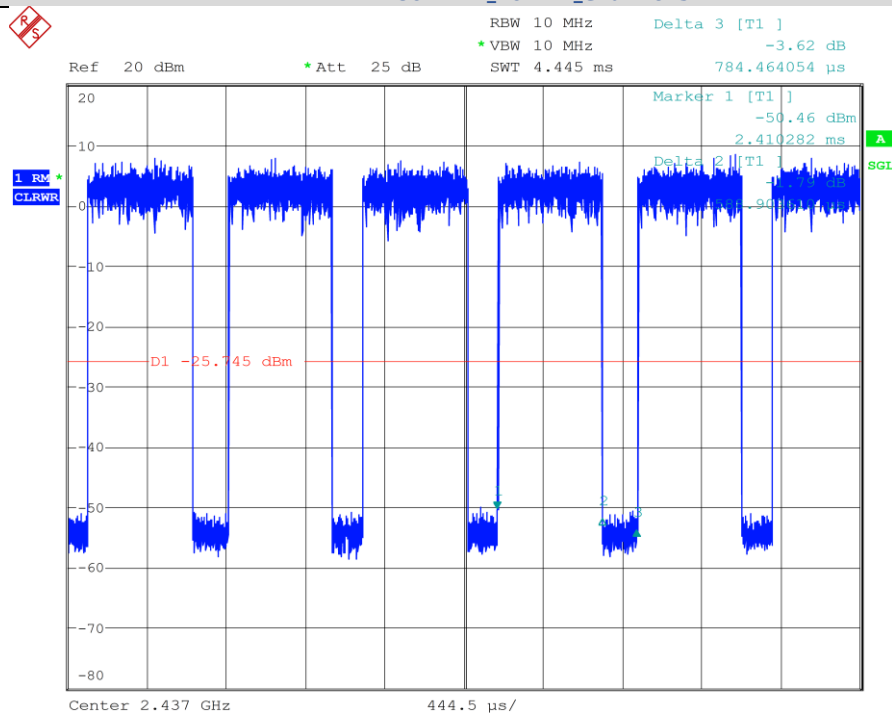
IEEE 802.11n_20MHz_Channel 6



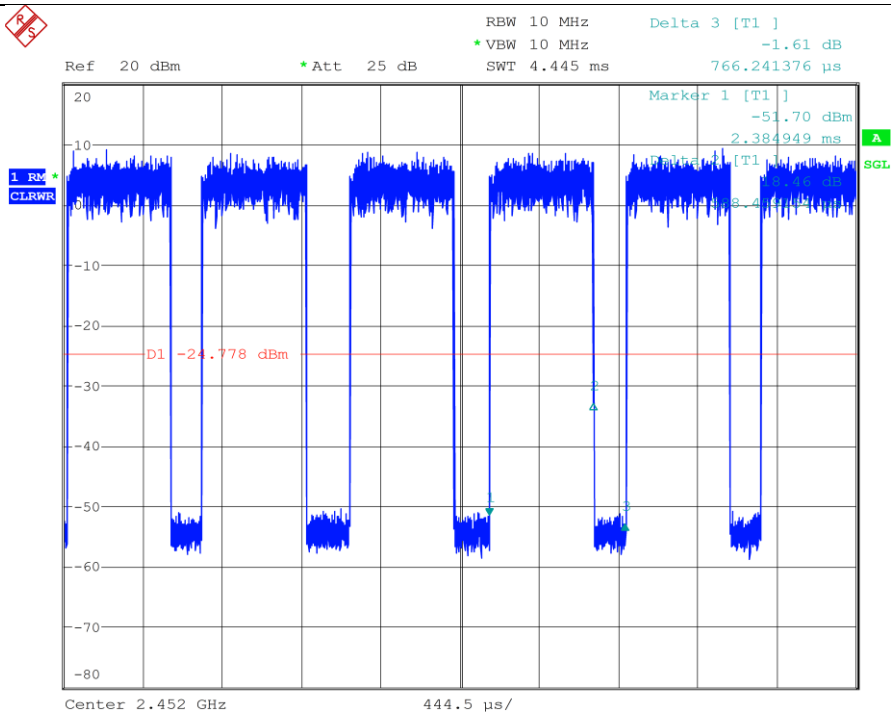
IEEE 802.11n_20MHz_Channel 11



IEEE 802.11n_40MHz_Channel 3



IEEE 802.11n_40MHz_Channel 6

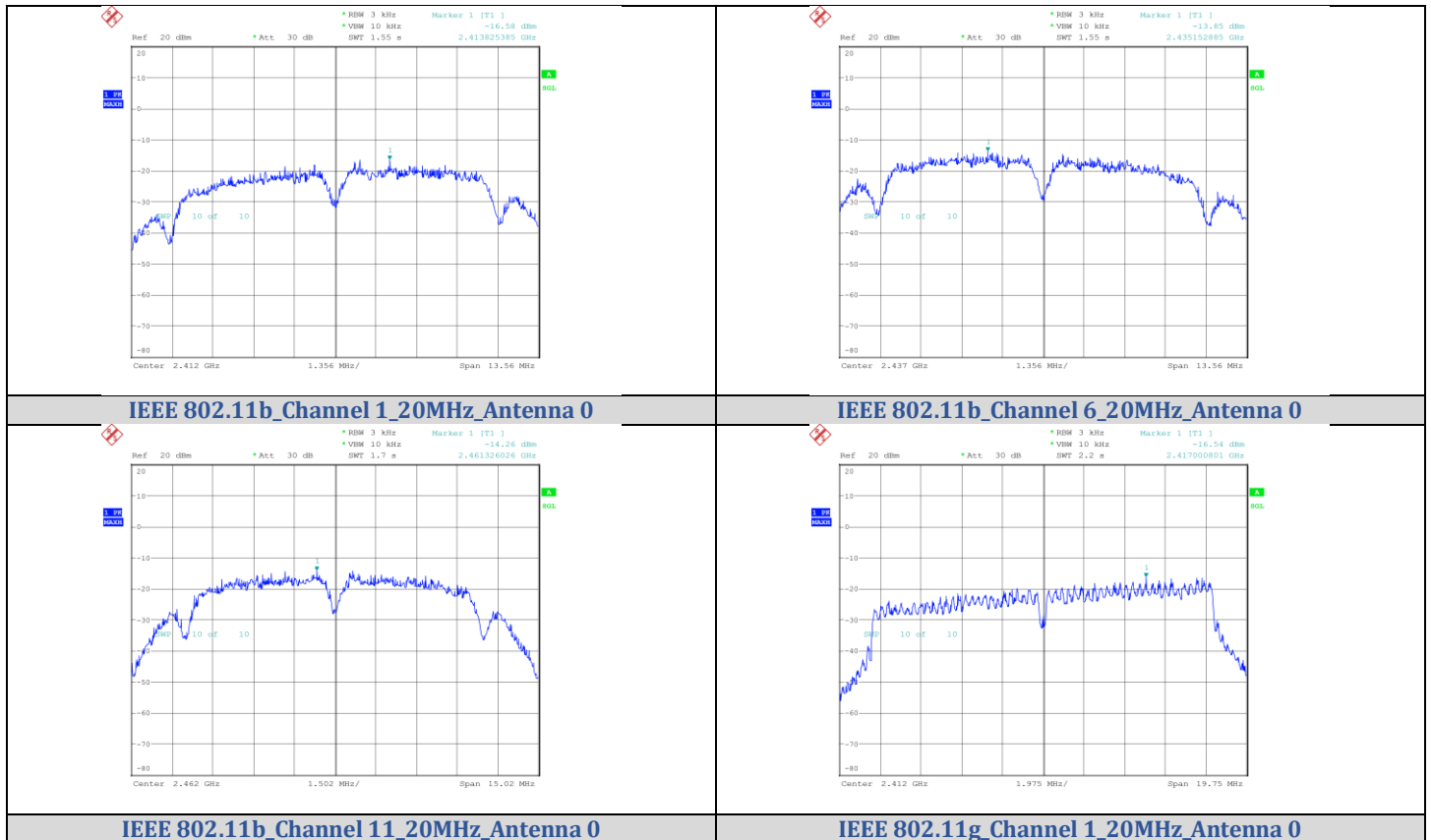


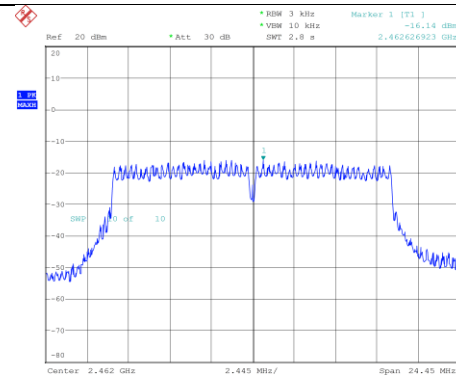
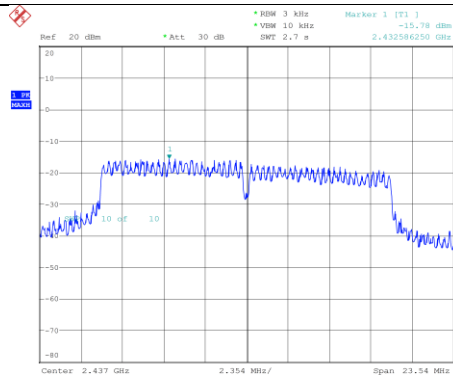
Power Spectral Density

Test Result

Mode	Channel	PSD (dBm/3kHz) Ant. 0	Limit (dBm/3kHz)	Result
IEEE 802.11b	1	-16.584	≤8	PASS
	6	-13.850		PASS
	11	-14.258		PASS
IEEE 802.11g	1	-16.537		PASS
	6	-15.783		PASS
	11	-16.144		PASS
IEEE 802.11n_20	1	-17.608		PASS
	6	-16.072		PASS
	11	-16.422		PASS
IEEE 802.11n_40	3	-21.423		PASS
	6	-18.410		PASS
	9	-15.644		PASS

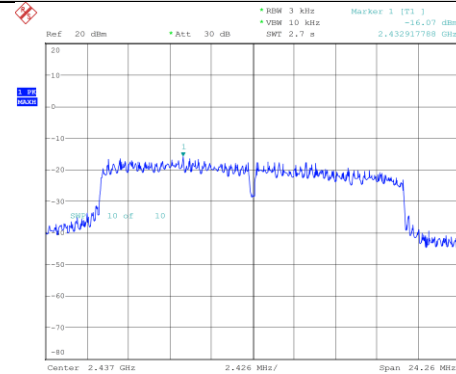
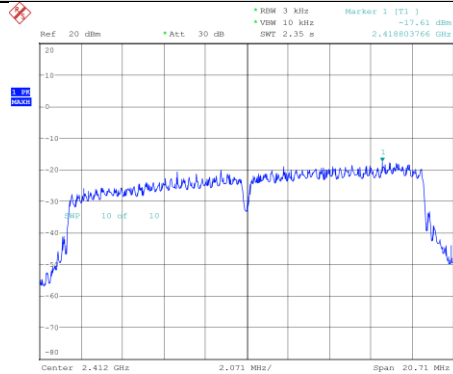
Test Graphs





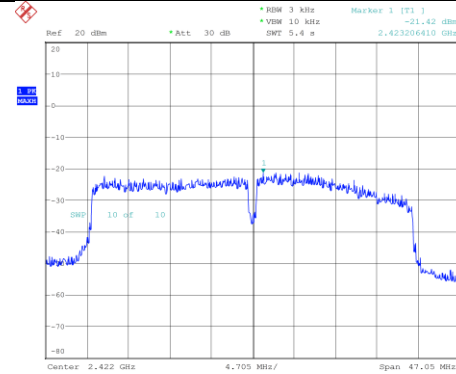
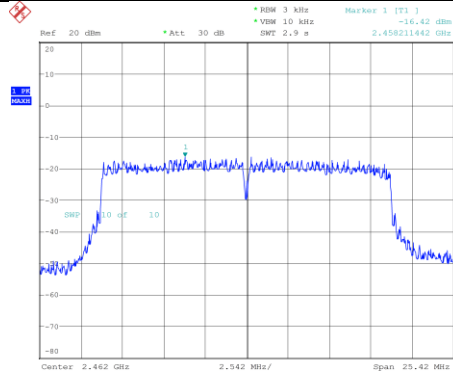
IEEE 802.11g_Channel 6_20MHz_Antenna 0

IEEE 802.11g_Channel 11_20MHz_Antenna 0



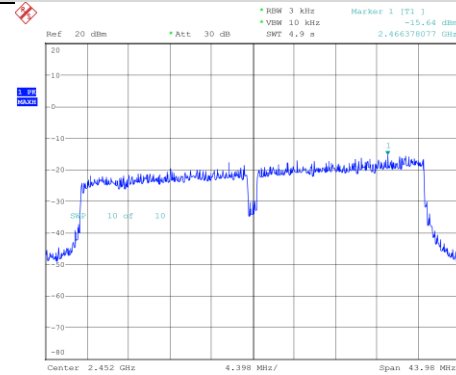
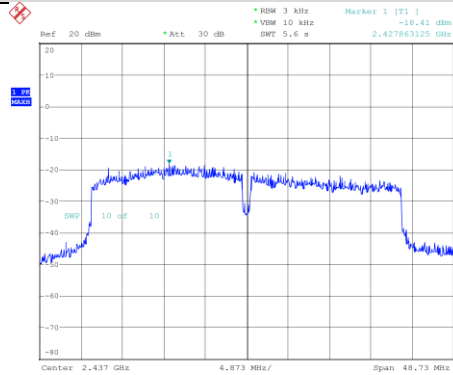
IEEE 802.11n_Channel 1_20MHz_Antenna 0

IEEE 802.11n_Channel 6_20MHz_Antenna 0



IEEE 802.11n_Channel 11_20MHz_Antenna 0

IEEE 802.11n_Channel 3_40MHz_Antenna 0



IEEE 802.11n_Channel 6_40MHz_Antenna 0

IEEE 802.11n_Channel 9_40MHz_Antenna 0