Conducted Out Of Band Emission

Note:The maximum loss of the test system for testing at 30MHz-26.5GHz is 17.2dB. The offset on the test chart is the offset of the main frequency, and the margin is sufficient to offset the difference between the maximum loss of the system and the offset of the main frequency.

Test Result

Mode	Channel	Ant.	OOB Emission Frequency (MHz)	OOB Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result
IEEE 802.11a	149	0	2460.79	-31.733	-27	-4.730	PASS
			5630.00	-36.471	-27	-9.470	PASS
			5725.00	-36.893	27	-63.890	PASS
			5850.00	-37.672	27	-64.670	PASS
			5958.50	-36.131	-27	-9.131	PASS
			24712.0	-44.563	-27	-17.560	PASS
	157		2460.93	-29.882	-27	-2.880	PASS
			5636.00	-37.185	-27	-10.185	PASS
			5725.00	-37.796	27	-64.800	PASS
			5850.00	-38.144	27	-65.140	PASS
			5947.25	-36.601	-27	-9.601	PASS
			24801.6	-44.635	-27	-17.630	PASS
	165		2461.35	-30.866	-27	-3.870	PASS
			5601.50	-36.411	-27	-9.411	PASS
			5725.00	-38.418	27	-65.420	PASS
			5850.00	-39.514	27	-66.510	PASS
			5975.00	-37.439	-27	-10.439	PASS
			24708.6	-44.495	-27	-17.490	PASS
IEEE 802.11n_20	149		2460.93	-33.297	-27	-6.300	PASS
			5628.12	-36.106	-27	-9.107	PASS
			5725.00	-37.005	27	-64.000	PASS
			5850.00	-38.353	27	-65.350	PASS
			5969.75	-37.178	-27	-10.178	PASS
			24967.6	-43.988	-27	-16.990	PASS
	157		2458.68	-33.545	-27	-6.550	PASS
			5613.88	-36.552	-27	-9.552	PASS
			5725.00	-38.364	27	-65.360	PASS
			5850.00	-37.993	27	-64.990	PASS
			5936.38	-36.858	-27	-9.858	PASS
			24887.9	-43.786	-27	-16.790	PASS
	165		2460.37	-30.179	-27	-3.180	PASS

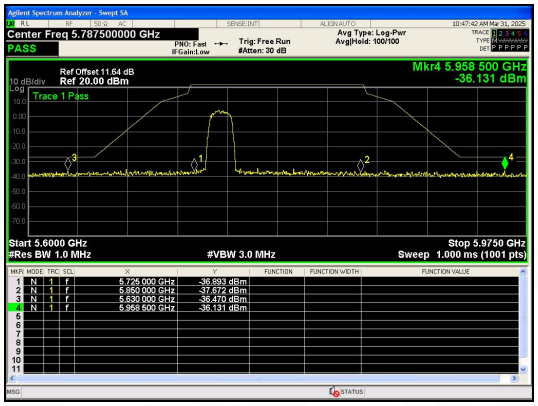
BTF Testing Lab (Shenzhen) Co., Ltd.
101/201/301, Building 1, Block 2, Tantou Industrial Park,Tantou Community, Songgang Subdistrict, Bao'an District, Shenzhen, China
Email: info@btf-lab.com Tel: +86-755-23146130 http://www.btf-lab.com

			5638.62	-36.082	-27	-9.082	PASS
			5725.00	-37.603	27	-64.600	PASS
			5850.00	-38.561	27	-65.560	PASS
			5931.12	-36.729	-27	-9.729	PASS
			24781.6	-43.555	-27	-16.550	PASS
IEEE 802.11n_40	151		2459.39	-38.152	-27	-11.150	PASS
			5628.88	-36.718	-27	-9.718	PASS
			5725.00	-36.572	27	-63.570	PASS
			5850.00	-38.165	27	-65.160	PASS
			5941.62	-37.025	-27	-10.025	PASS
			24496.9	-44.709	-27	-17.710	PASS
	159		2468.80	-48.333	-27	-21.330	PASS
			5648.00	-36.190	-27	-9.190	PASS
			5725.00	-37.762	27	-64.760	PASS
			5850.00	-36.434	27	-63.430	PASS
			5965.25	-37.345	-27	-10.345	PASS
			24783.0	-44.392	-27	-17.390	PASS
IEEE 802.11ac_20	149		2459.67	-33.109	-27	-6.110	PASS
			5619.50	-36.849	-27	-9.850	PASS
			5725.00	-37.622	27	-64.620	PASS
			5850.00	-38.634	27	-65.630	PASS
			5927.75	-35.761	-27	-8.761	PASS
			24635.7	-44.356	-27	-17.360	PASS
	157		2460.37	-31.850	-27	-4.850	PASS
			5621.75	-34.953	-27	-7.953	PASS
			5725.00	-36.378	27	-63.380	PASS
			5850.00	-37.589	27	-64.590	PASS
			5937.88	-36.626	-27	-9.626	PASS
			24566.0	-44.337	-27	-17.340	PASS
	165		2460.51	-31.871	-27	-4.870	PASS
			5646.88	-35.364	-27	-8.364	PASS
			5725.00	-38.314	27	-65.310	PASS
			5850.00	-38.248	27	-65.250	PASS
			5950.25	-36.572	-27	-9.572	PASS
			24710.5	-44.320	-27	-17.320	PASS
IEEE 802.11ac_40	151		2459.95	-36.194	-27	-9.190	PASS
			5649.50	-36.066	-27	-9.066	PASS
			5725.00	-37.722	27	-64.720	PASS
			5850.00	-38.101	27	-65.100	PASS
			5927.00	-35.926	-27	-8.926	PASS
			24660.5	-44.645	-27	-17.650	PASS
	159		2458.96	-35.624	-27	-8.620	PASS
			5640.88	-36.596	-27	-9.596	PASS

BTF Testing Lab (Shenzhen) Co., Ltd.
101/201/301, Building 1, Block 2, Tantou Industrial Park,Tantou Community, Songgang Subdistrict, Bao'an District, Shenzhen, China
Email: info@btf-lab.com Tel: +86-755-23146130 http://www.btf-lab.com

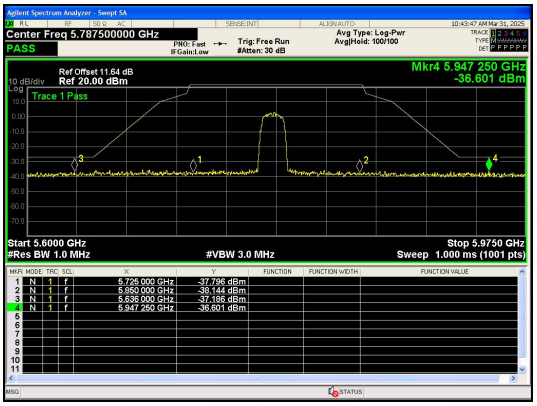
			5725.00	-38.493	27	-65.490	PASS
			5850.00	-36.224	27	-63.220	PASS
			5934.12	-36.911	-27	-9.911	PASS
			24741.5	-43.937	-27	-16.940	PASS
IEEE 802.11ac_80	155		2458.40	-36.618	-27	-9.620	PASS
			5645.38	-36.055	-27	-9.055	PASS
			5725.00	-36.640	27	-63.640	PASS
			5850.00	-37.743	27	-64.740	PASS
			5933.75	-36.930	-27	-9.930	PASS
			24678.6	-44.393	-27	-17.390	PASS

Test Graphs



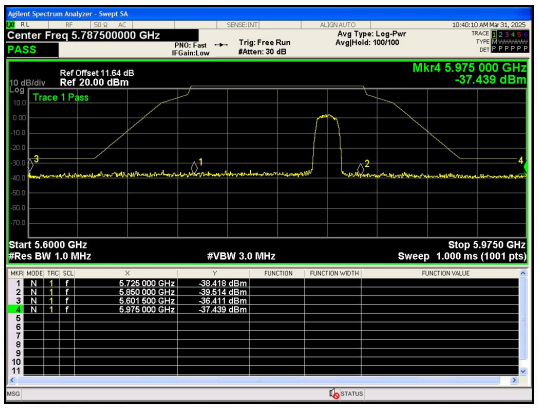
Out Of Band Emission

IEEE 802.11a_Channel 149_20MHz_Antenna 0



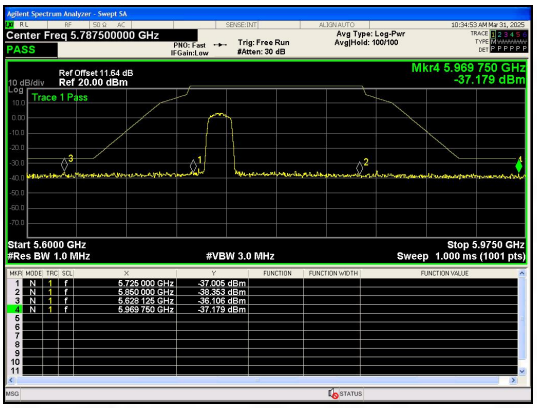
Out Of Band Emission

IEEE 802.11a_Channel 157_20MHz_Antenna 0



Out Of Band Emission

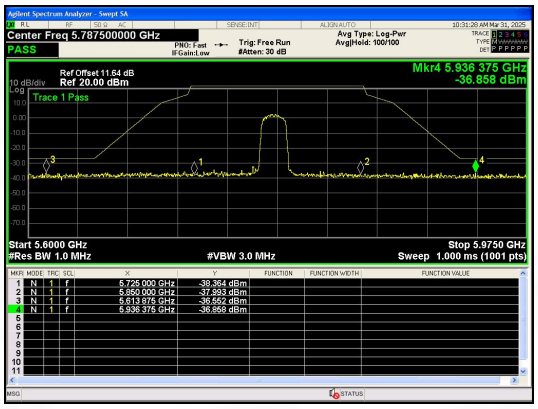
IEEE 802.11a_Channel 165_20MHz_Antenna 0



Out Of Band Emission

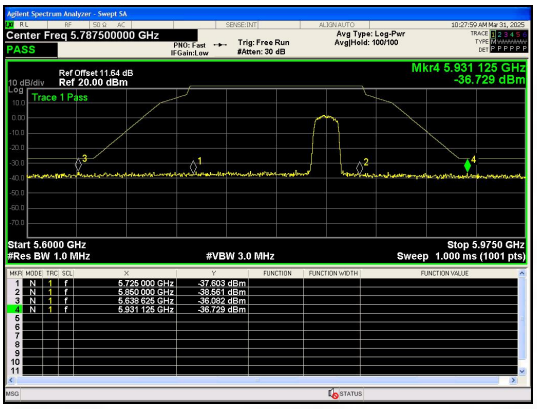
IEEE 802.11n_Channel 149_20MHz_Antenna 0

BTF Testing Lab (Shenzhen) Co., Ltd.
101/201/301, Building 1, Block 2, Tantou Industrial Park,Tantou Community, Songgang Subdistrict, Bao'an District, Shenzhen, China
Email: info@btf-lab.com Tel: +86-755-23146130 http://www.btf-lab.com



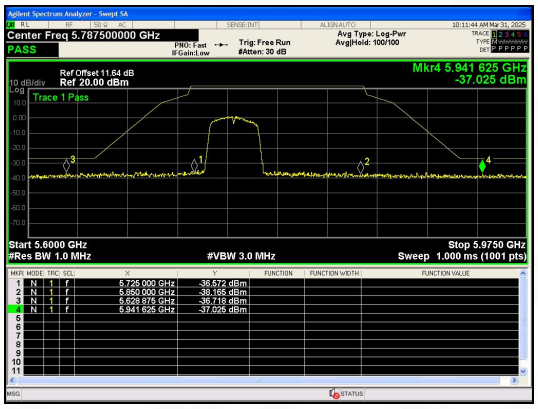
Out Of Band Emission

IEEE 802.11n_Channel 157_20MHz_Antenna 0



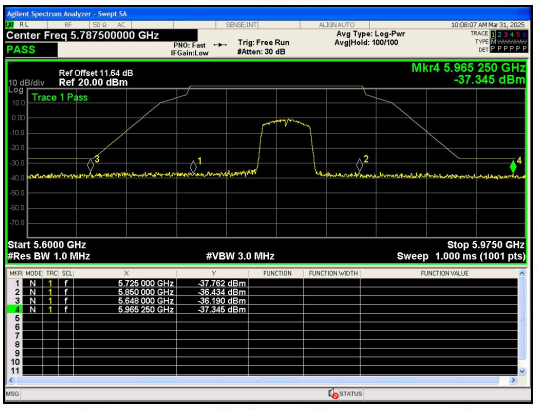
Out Of Band Emission

IEEE 802.11n_Channel 165_20MHz_Antenna 0



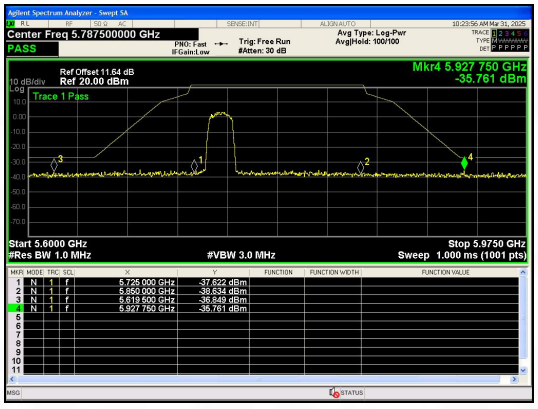
Out Of Band Emission

IEEE 802.11n_Channel 151_40MHz_Antenna 0



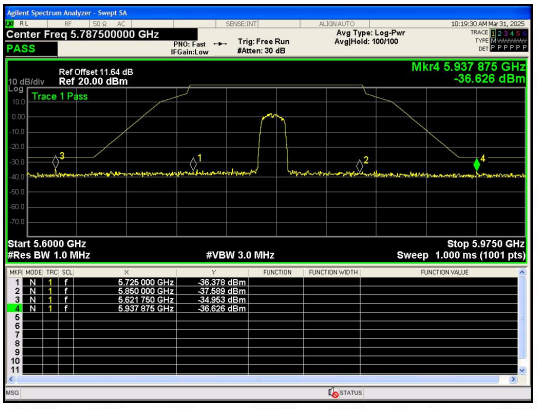
Out Of Band Emission

IEEE 802.11n_Channel 159_40MHz_Antenna 0



Out Of Band Emission

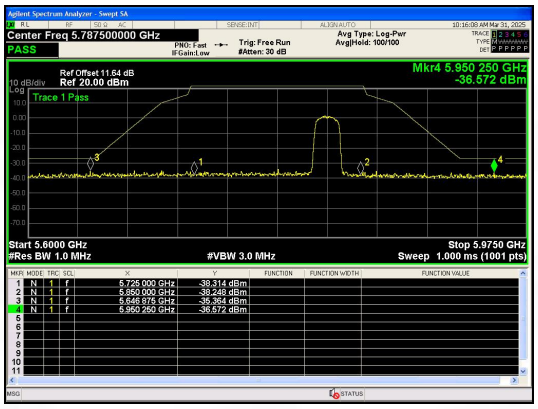
IEEE 802.11ac_Channel 149_20MHz_Antenna 0



Out Of Band Emission

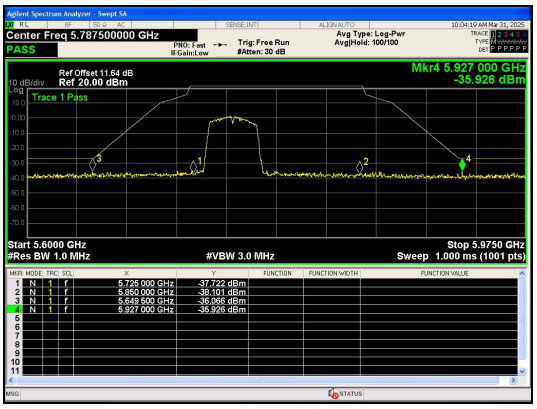
IEEE 802.11ac_Channel 157_20MHz_Antenna 0

BTF Testing Lab (Shenzhen) Co., Ltd.
101/201/301, Building 1, Block 2, Tantou Industrial Park,Tantou Community, Songgang Subdistrict, Bao'an District, Shenzhen, China
Email: info@btf-lab.com Tel: +86-755-23146130 http://www.btf-lab.com



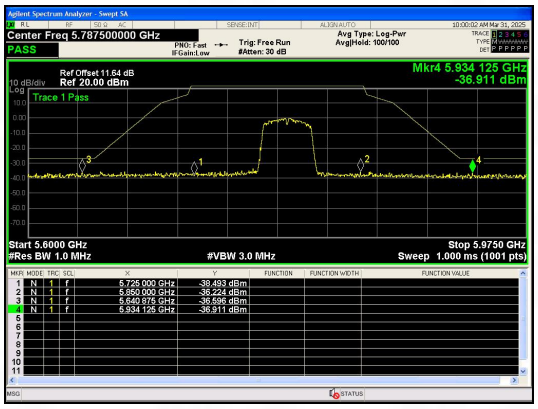
Out Of Band Emission

IEEE 802.11ac_Channel 165_20MHz_Antenna 0



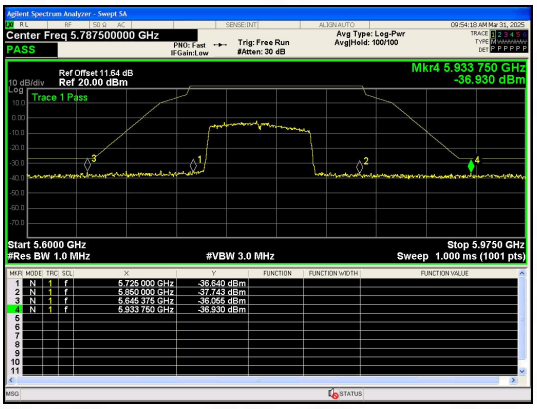
Out Of Band Emission

IEEE 802.11ac_Channel 151_40MHz_Antenna 0



Out Of Band Emission

IEEE 802.11ac_Channel 159_40MHz_Antenna 0



Out Of Band Emission

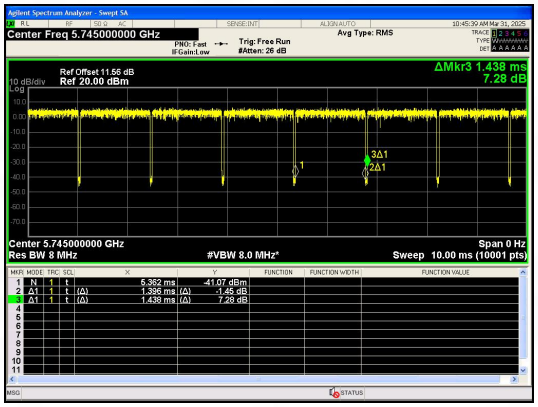
IEEE 802.11ac_Channel 155_80MHz_Antenna 0

Duty Cycle

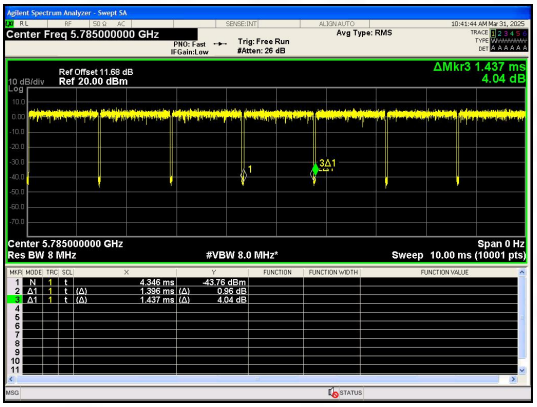
Test Result

Mode	Data rates	Channel	Antenna	On Time (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle (linear)	Duty Cycle Factor (dB)	1/T
IEEE 802.11a	6	149	0	1.396	1.438	97.08	0.9708	0.1287	0.7163
		157		1.396	1.437	97.15	0.9715	0.1256	0.7163
		165		1.396	1.438	97.08	0.9708	0.1287	0.7163
IEEE 802.11n_20	MCS 0	149		1.303	1.345	96.91	0.9691	0.1363	0.7675
		157		1.304	1.345	96.95	0.9695	0.1345	0.7669
		165		1.304	1.346	96.88	0.9688	0.1377	0.7669
IEEE 802.11n_40		151		0.650	0.693	93.87	0.9387	0.2747	1.5385
		159		0.650	0.693	93.87	0.9387	0.2747	1.5385
IEEE 802.11ac_20		149		1.316	1.357	96.98	0.9698	0.1332	0.7599
		157		1.315	1.357	96.93	0.9693	0.1354	0.7605
		165		1.315	1.357	96.88	0.9688	0.1377	0.7605
IEEE 802.11ac_40		151		0.654	0.697	93.90	0.9390	0.2733	1.5291
		159		0.654	0.697	93.90	0.9390	0.2733	1.5291
IEEE 802.11ac_80		155		0.325	0.369	88.12	0.8812	0.5493	3.0769

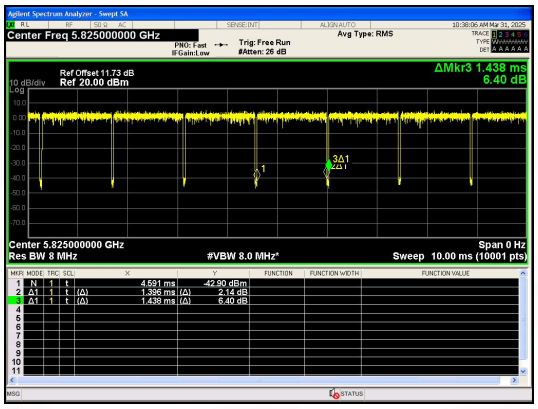
Test Graphs



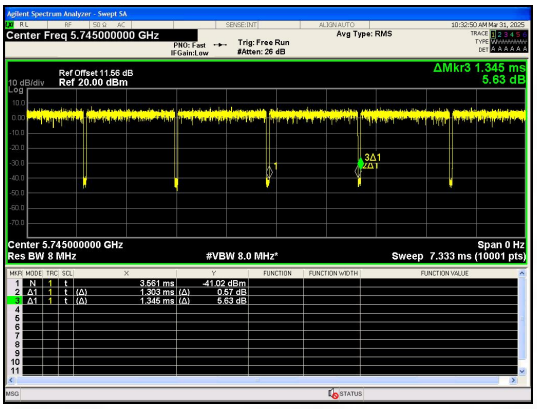
IEEE 802.11a_20MHz_Channel 149



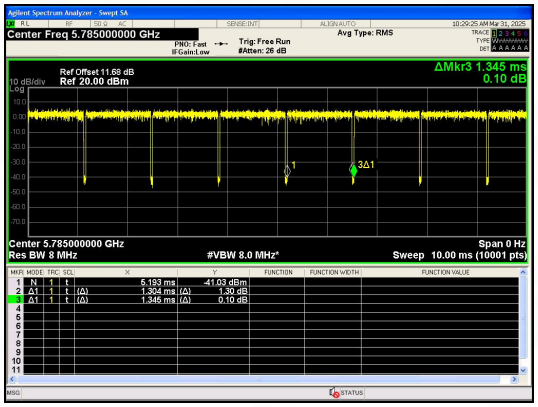
IEEE 802.11a_20MHz_Channel 157



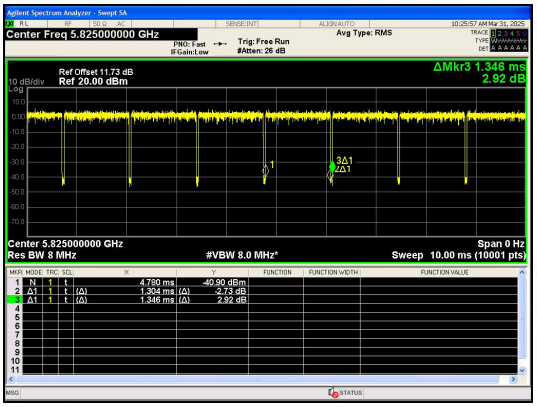
IEEE 802.11a_20MHz_Channel 165



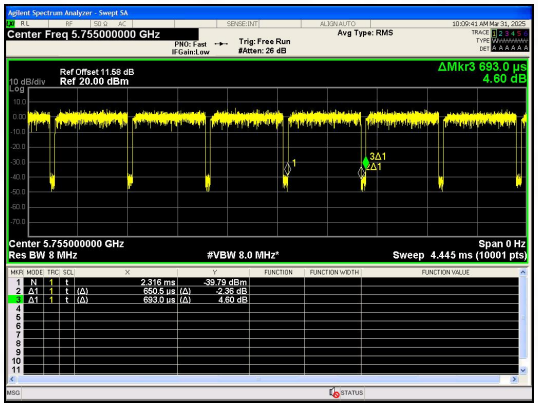
IEEE 802.11n_20MHz_Channel 149



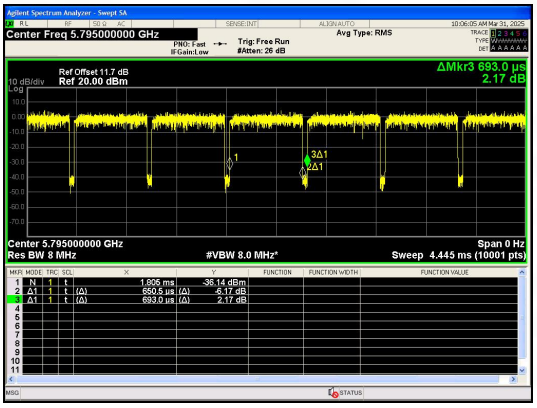
IEEE 802.11n_20MHz_Channel 157



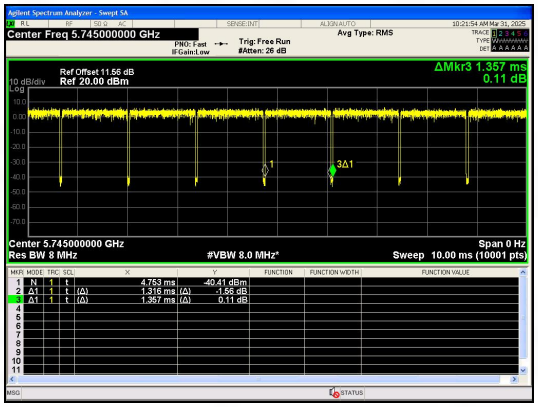
IEEE 802.11n_20MHz_Channel 165



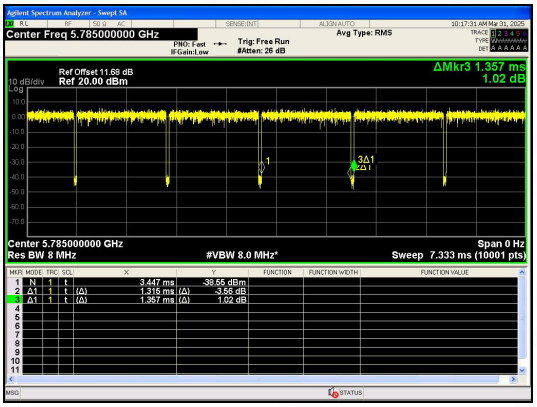
IEEE 802.11n_40MHz_Channel 151



IEEE 802.11n_40MHz_Channel 159

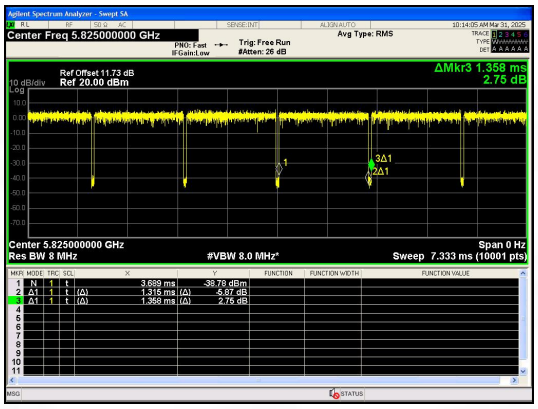


IEEE 802.11ac_20MHz_Channel 149

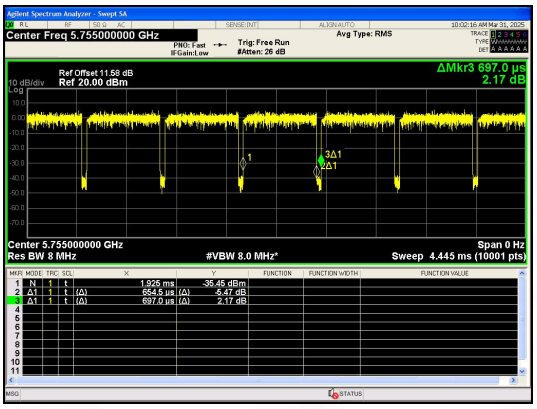


IEEE 802.11ac_20MHz_Channel 157

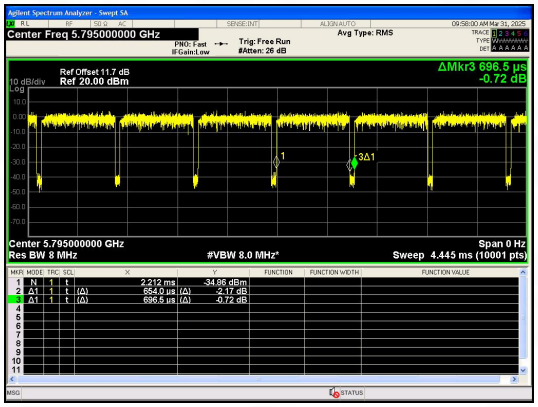
BTF Testing Lab (Shenzhen) Co., Ltd.
101/201/301, Building 1, Block 2, Tantou Industrial Park,Tantou Community, Songgang Subdistrict, Bao'an District, Shenzhen, China
Email: info@btf-lab.com Tel: +86-755-23146130 http://www.btf-lab.com



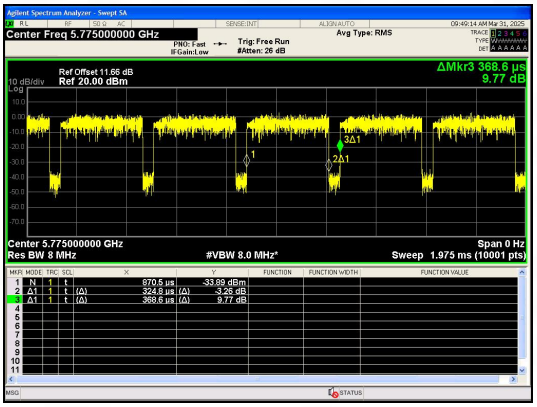
IEEE 802.11ac_20MHz_Channel 165



IEEE 802.11ac_40MHz_Channel 151



IEEE 802.11ac_40MHz_Channel 159



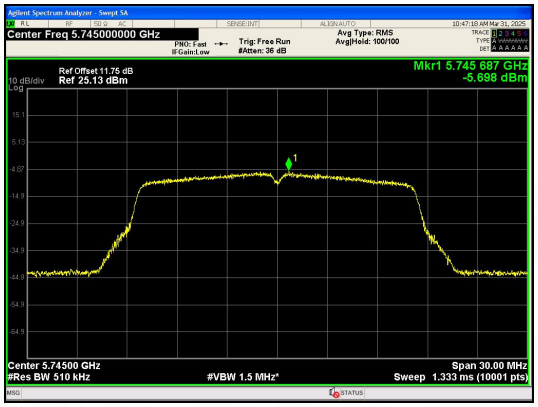
IEEE 802.11ac_80MHz_Channel 155

Peak Power Spectral Density

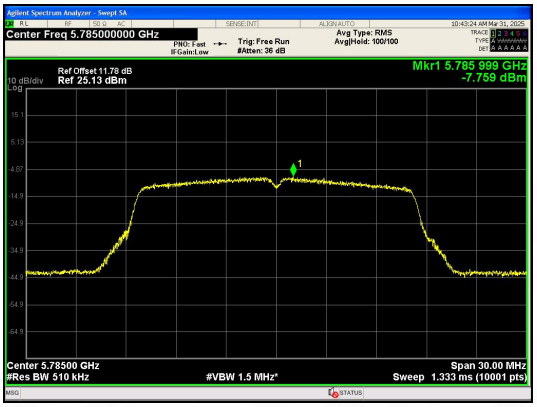
Test Result

Mode	Channel	Ant. 0 Meas PSD (dBm/MHz or dBm/0.5MHz)	Ant. 0 Corr'd PSD (dBm/MHz or dBm/0.5MHz)	Limit (dBm/MHz or dBm/0.5MHz)	Result
IEEE 802.11a	149	-5.827	-5.698	30	PASS
	157	-7.885	-7.759		PASS
	165	-7.429	-7.3		PASS
IEEE 802.11n_20	149	-6.354	-6.218		PASS
	157	-7.426	-7.291		PASS
	165	-7.691	-7.553		PASS
IEEE 802.11n_40	151	-9.588	-9.313		PASS
	159	-11.299	-11.024		PASS
IEEE 802.11ac_20	149	-6.660	-6.527		PASS
	157	-8.088	-7.953		PASS
	165	-8.347	-8.209		PASS
IEEE 802.11ac_40	151	-9.420	-9.147		PASS
	159	-10.513	-10.24		PASS
IEEE 802.11ac_80	155	-13.626	-13.077		PASS

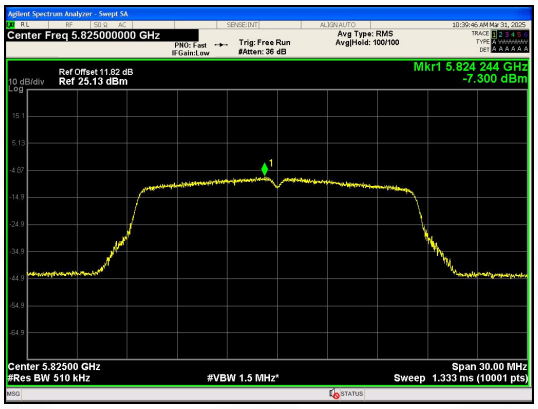
Test Graphs



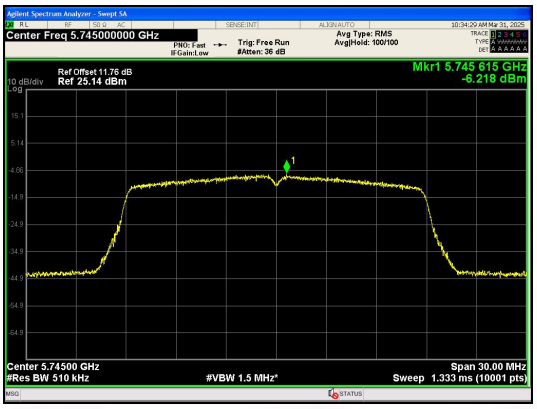
IEEE 802.11a_Channel 149_20MHz_Antenna 0



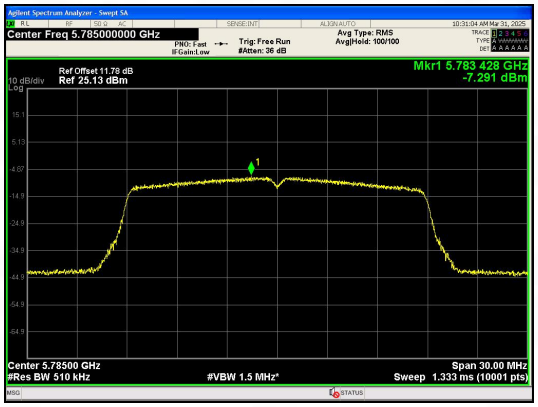
IEEE 802.11a_Channel 157_20MHz_Antenna 0



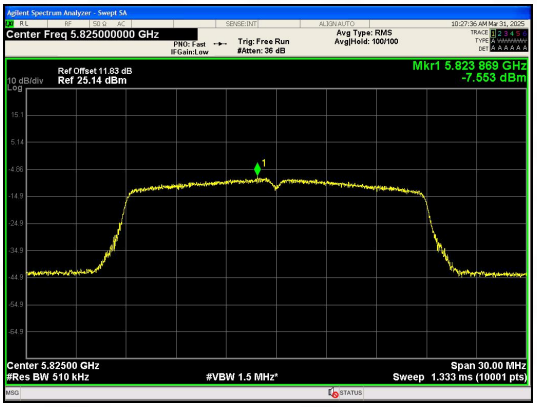
IEEE 802.11a_Channel 165_20MHz_Antenna 0



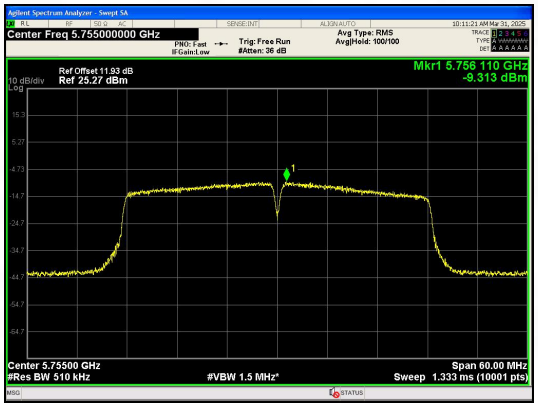
IEEE 802.11n_Channel 149_20MHz_Antenna 0



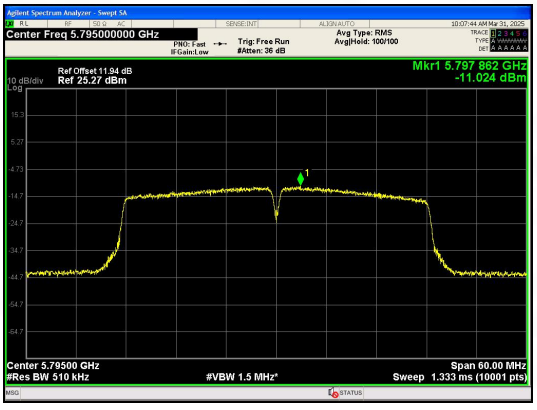
IEEE 802.11n_Channel 157_20MHz_Antenna 0



IEEE 802.11n_Channel 165_20MHz_Antenna 0

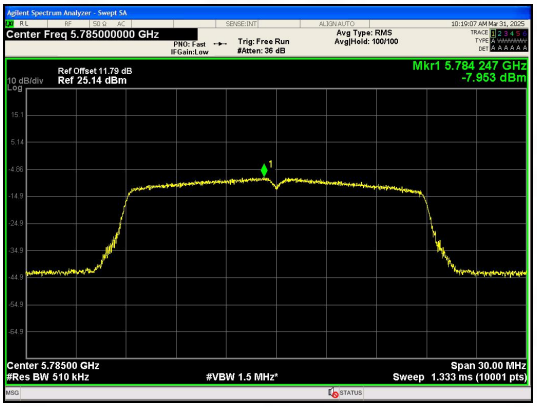


IEEE 802.11n_Channel 151_40MHz_Antenna 0



IEEE 802.11n_Channel 159_40MHz_Antenna 0

IEEE 802.11ac_Channel 149_20MHz_Antenna 0



IEEE 802.11ac_Channel 157_20MHz_Antenna 0

BTF Testing Lab (Shenzhen) Co., Ltd.
101/201/301, Building 1, Block 2, Tantou Industrial Park,Tantou Community, Songgang Subdistrict, Bao'an District, Shenzhen, China
Email: info@btf-lab.com Tel: +86-755-23146130 http://www.btf-lab.com