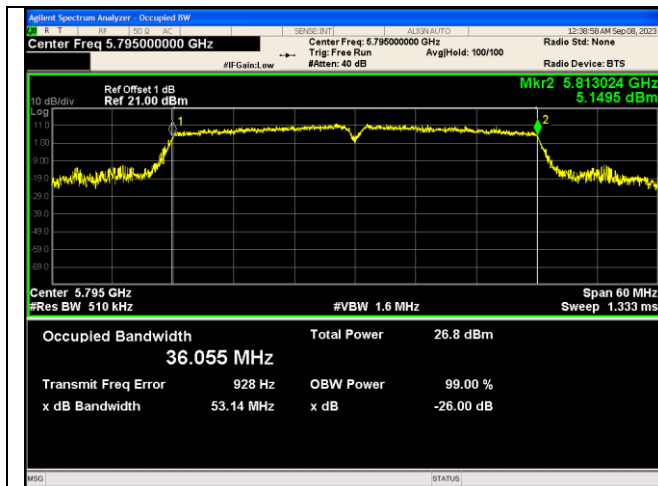
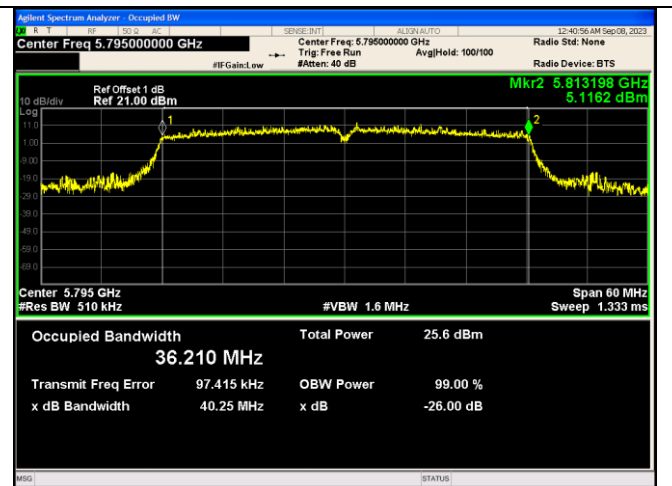
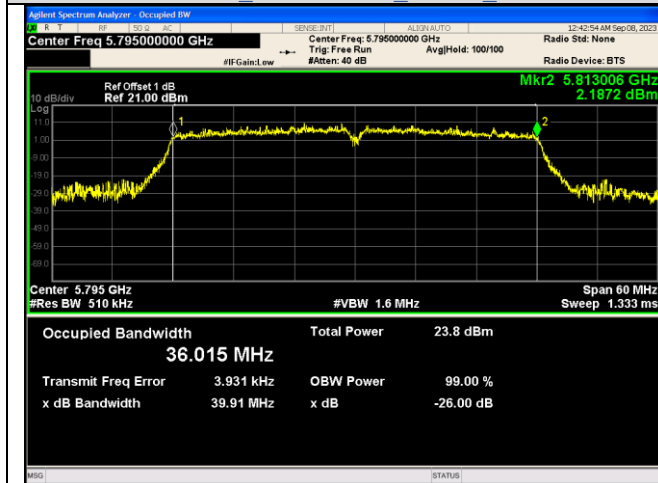




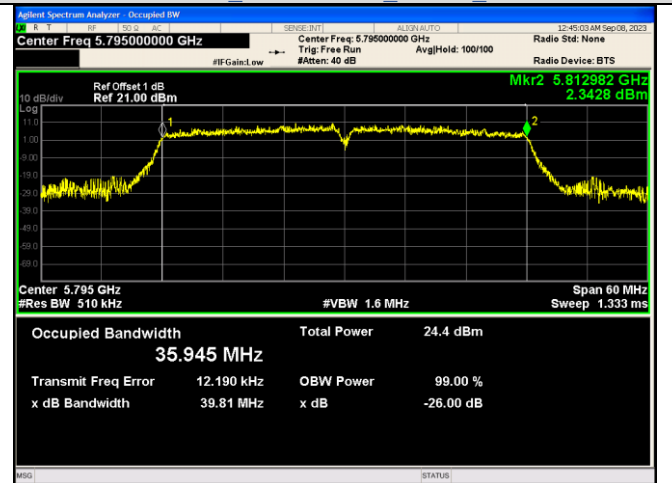
IEEE 802.11ac Channel 159 40MHz Antenna 0



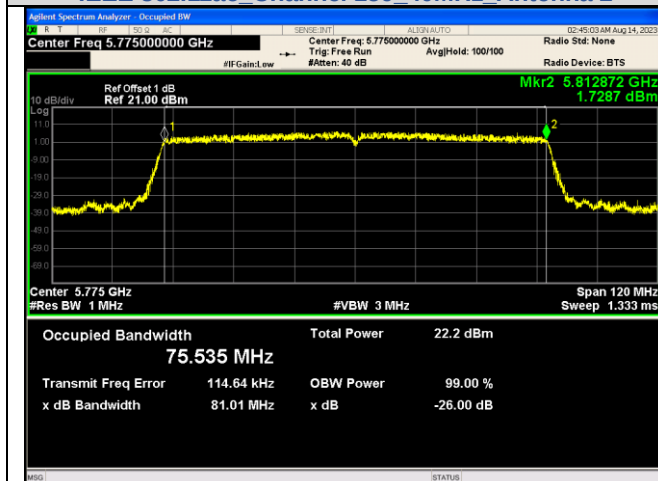
IEEE 802.11ac Channel 159 40MHz Antenna 1



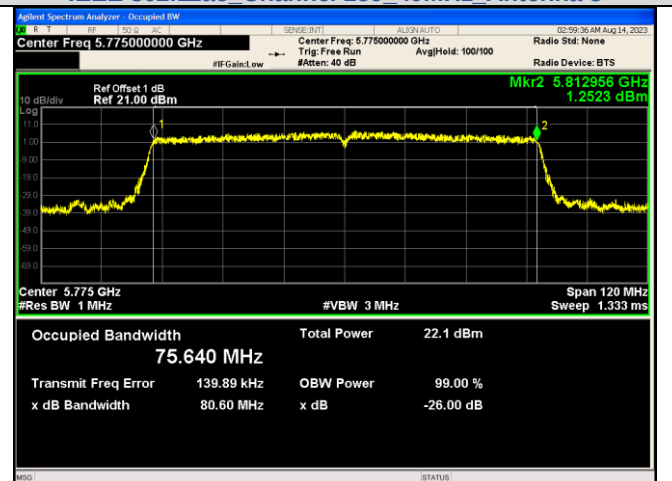
IEEE 802.11ac Channel 159 40MHz Antenna 2



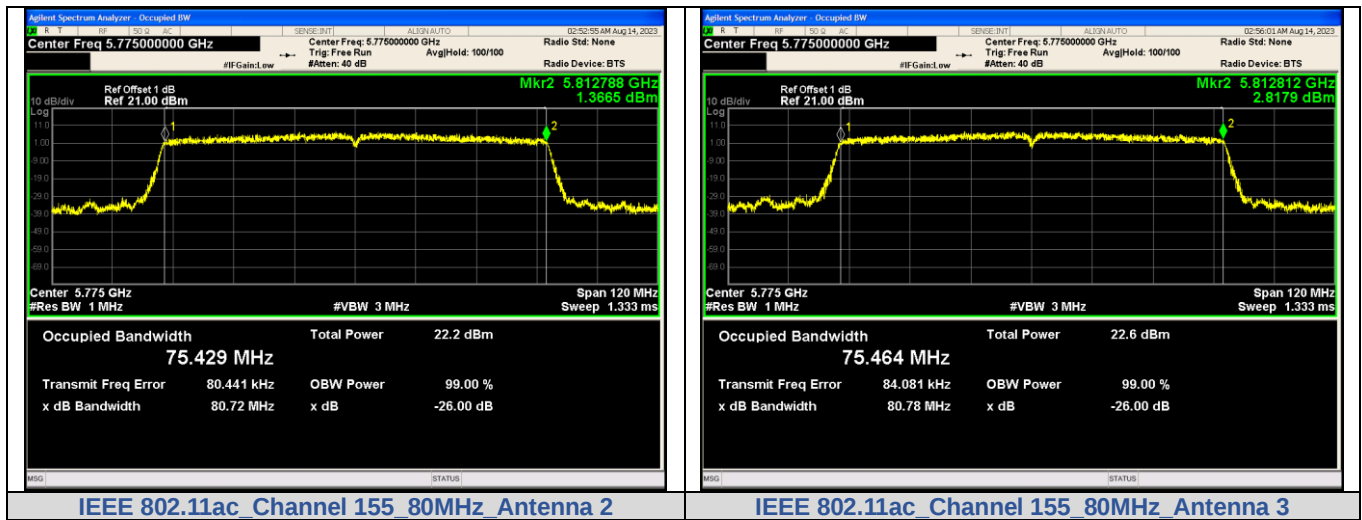
IEEE 802.11ac Channel 159 40MHz Antenna 3

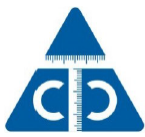


IEEE 802.11ac Channel 155 80MHz Antenna 0



IEEE 802.11ac Channel 155 80MHz Antenna 1





Appendix A3: Min emission bandwidth

Test Result

Mode	Channel	Ant.	Center Frequency (MHz)	6 dB Bandwidth (MHz)	Limit (MHz)	Result
IEEE 802.11a	149	0	5745	15.10	0.5	PASS
		1	5745	16.03		PASS
		2	5745	15.43		PASS
		3	5745	15.31		PASS
	157	0	5785	15.10		PASS
		1	5785	15.05		PASS
		2	5785	15.45		PASS
		3	5785	15.06		PASS
	165	0	5825	15.41		PASS
		1	5825	15.07		PASS
		2	5825	14.77		PASS
		3	5825	15.11		PASS
IEEE 802.11n_20	149	0	5745	15.12		PASS
		1	5745	15.10		PASS
		2	5745	15.03		PASS
		3	5745	15.12		PASS
	157	0	5785	15.12		PASS
		1	5785	15.11		PASS
		2	5785	15.12		PASS
		3	5785	15.09		PASS
	165	0	5825	15.13		PASS
		1	5825	15.10		PASS
		2	5825	15.11		PASS
		3	5825	15.12		PASS
IEEE 802.11n_40	151	0	5755	35.12		PASS
		1	5755	35.10		PASS
		2	5755	35.09		PASS
		3	5755	35.11		PASS
	159	0	5795	35.07		PASS
		1	5795	35.11		PASS
		2	5795	35.11		PASS
		3	5795	35.12		PASS
IEEE 802.11ac_20	149	0	5745	15.12		PASS
		1	5745	15.12		PASS
		2	5745	15.11		PASS
		3	5745	15.11		PASS
	157	0	5785	15.14		PASS
		1	5785	15.72		PASS
		2	5785	15.67		PASS
		3	5785	15.12		PASS
	165	0	5825	15.12		PASS
		1	5825	15.12		PASS
		2	5825	15.60		PASS
		3	5825	15.12		PASS
IEEE 802.11ac_40	151	0	5755	35.12		PASS
		1	5755	35.12		PASS
		2	5755	35.12		PASS
		3	5755	35.06		PASS
	159	0	5795	35.11		PASS
		1	5795	35.12		PASS
		2	5795	35.12		PASS
		3	5795	35.11		PASS
IEEE 802.11ac_80	155	0	5775	75.14		PASS
		1	5775	75.72		PASS
		2	5775	75.10		PASS
		3	5775	75.13		PASS

CTC Laboratories, Inc.

1-2/F., Building 2, Jiaquan Building, Guanlan High-Tech Park, Shenzhen, Guangdong, China

Tel.: (86)755-27521059

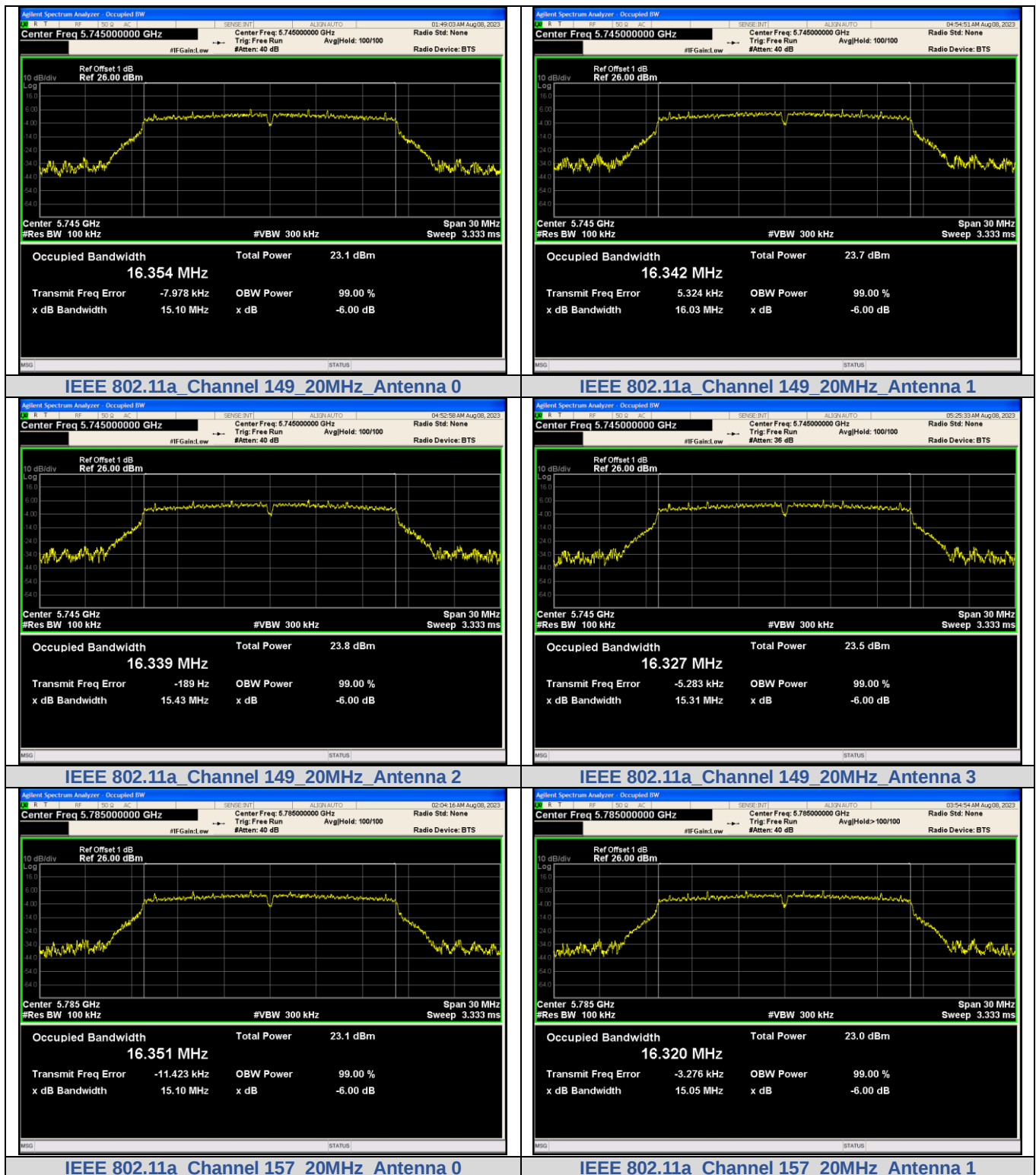
Fax: (86)755-27521011

Http://www.sz-ctc.org.cn

For anti-fake verification, please visit the official website of Certification and Accreditation Administration of the People's Republic of China : yz.cnca.cn



Test Graphs



CTC Laboratories, Inc.

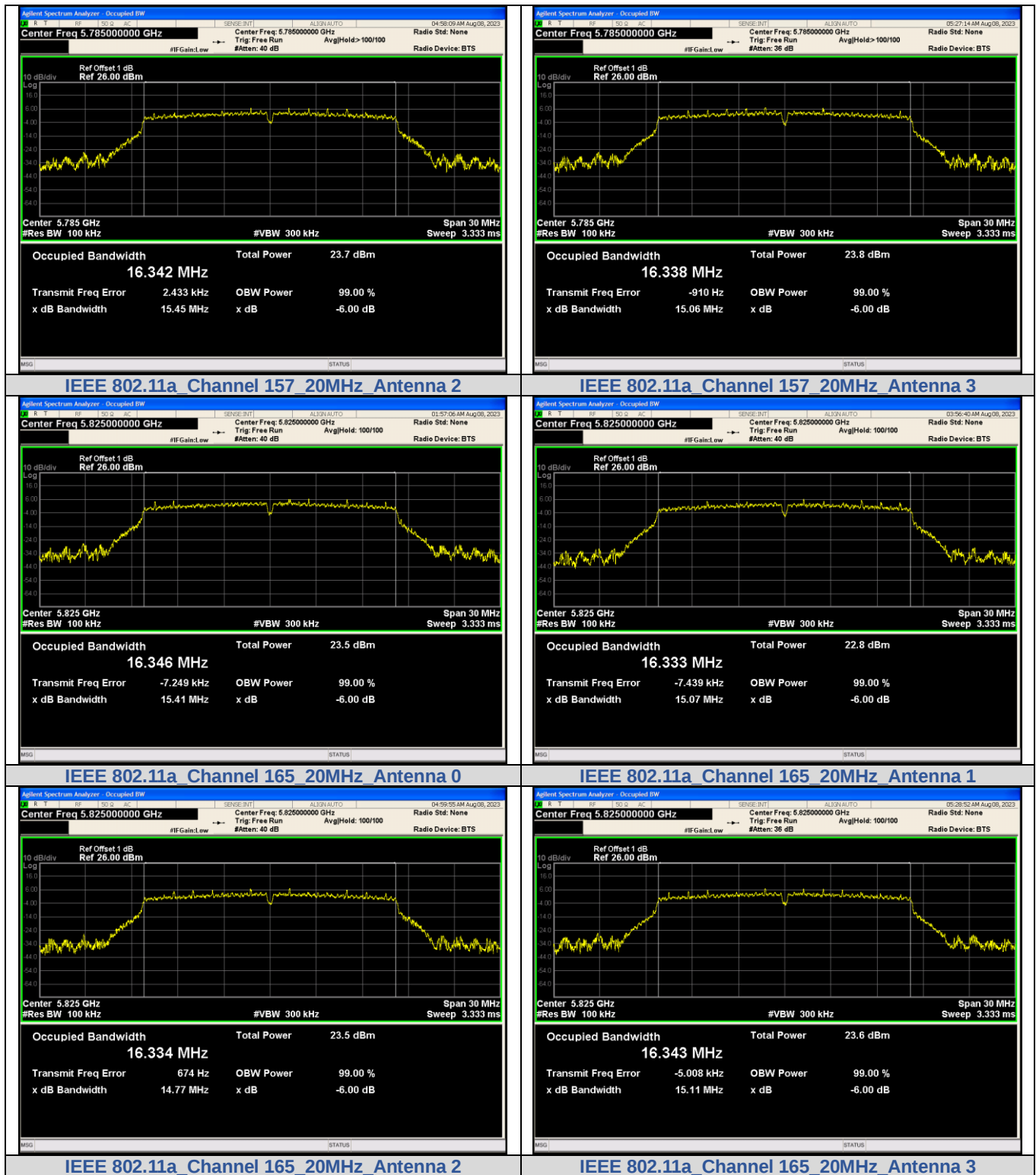
1-2/F, Building 2, Jiaquan Building, Guanlan High-Tech Park, Shenzhen, Guangdong, China

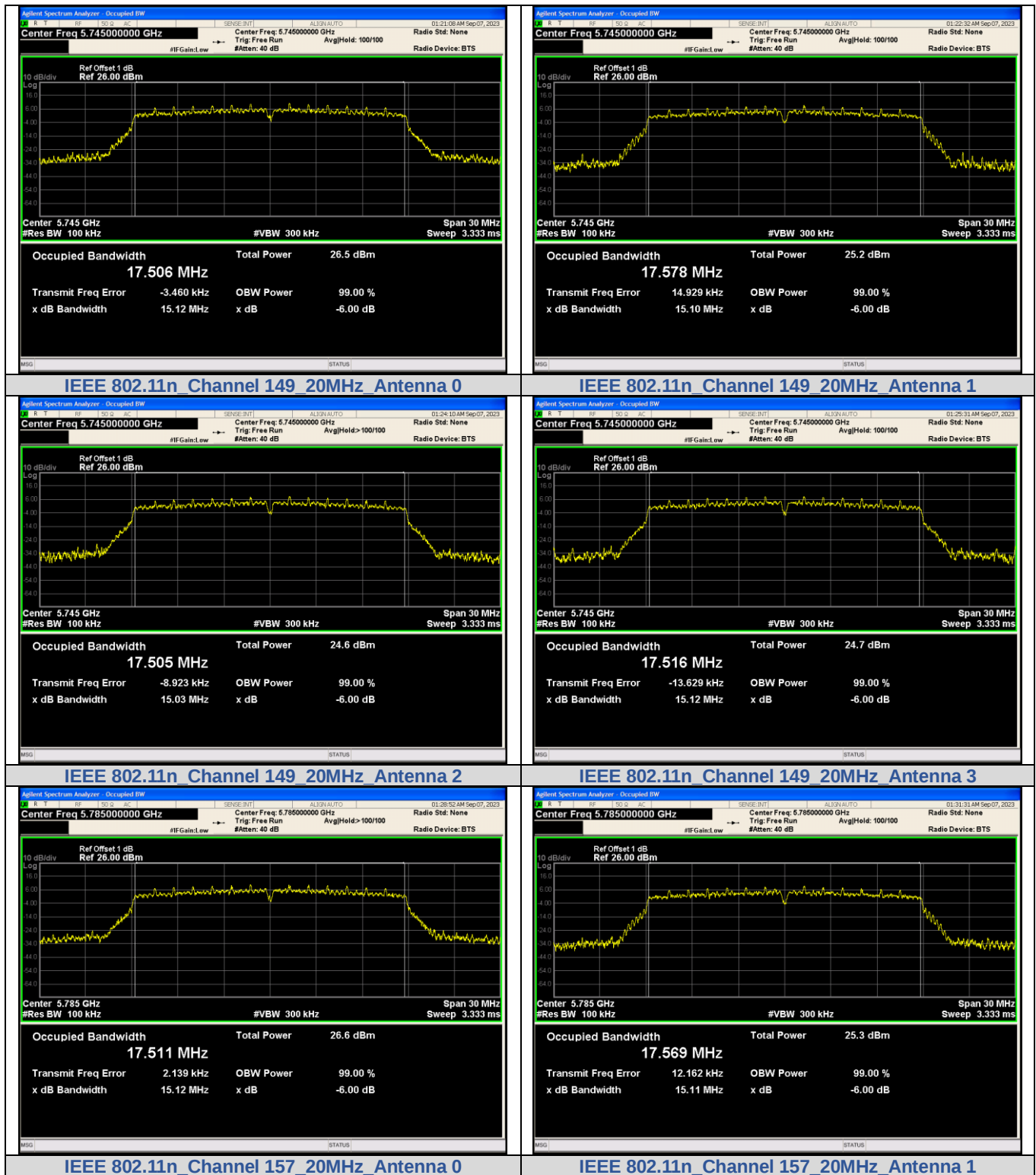
Tel.: (86)755-27521059

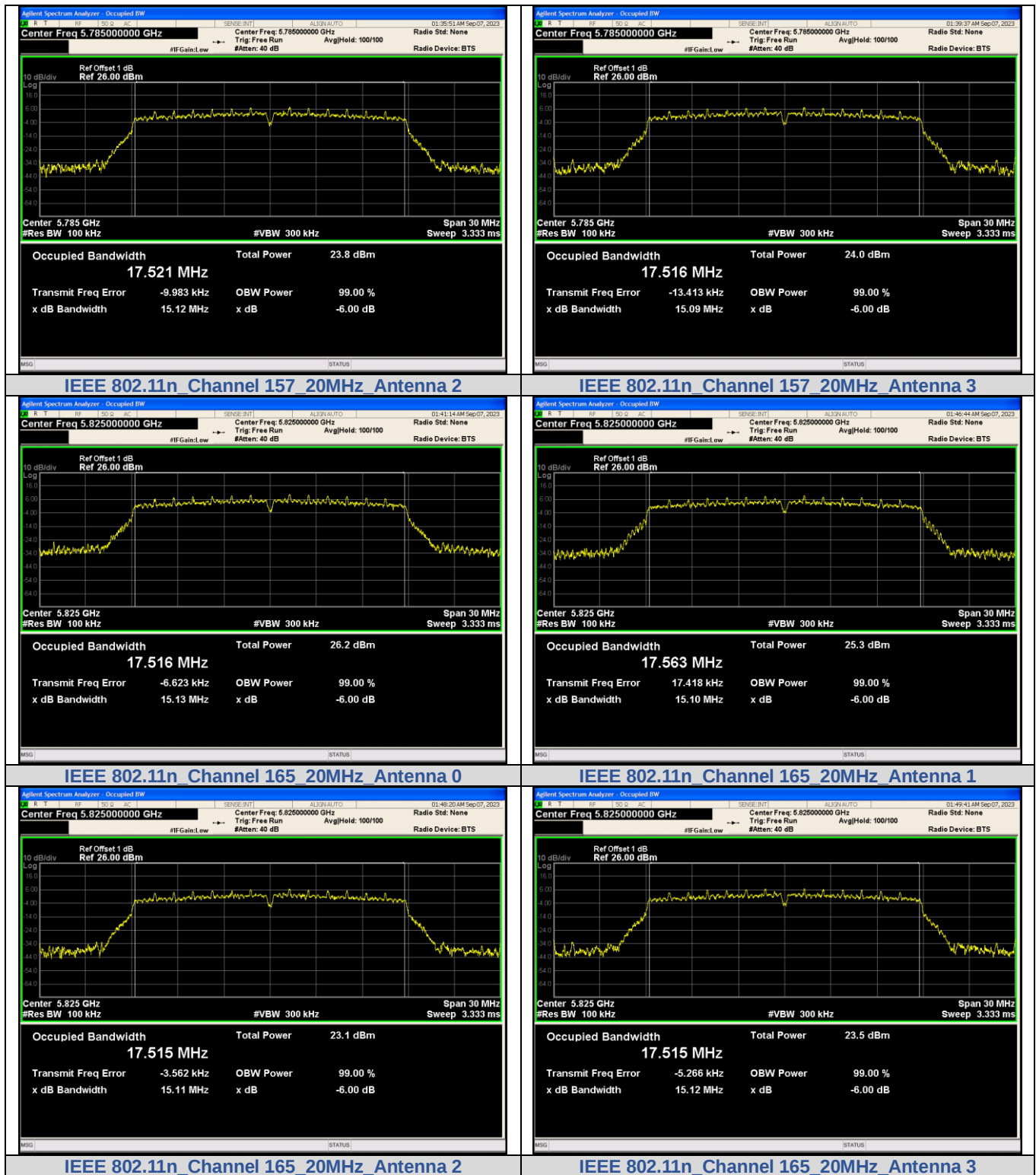
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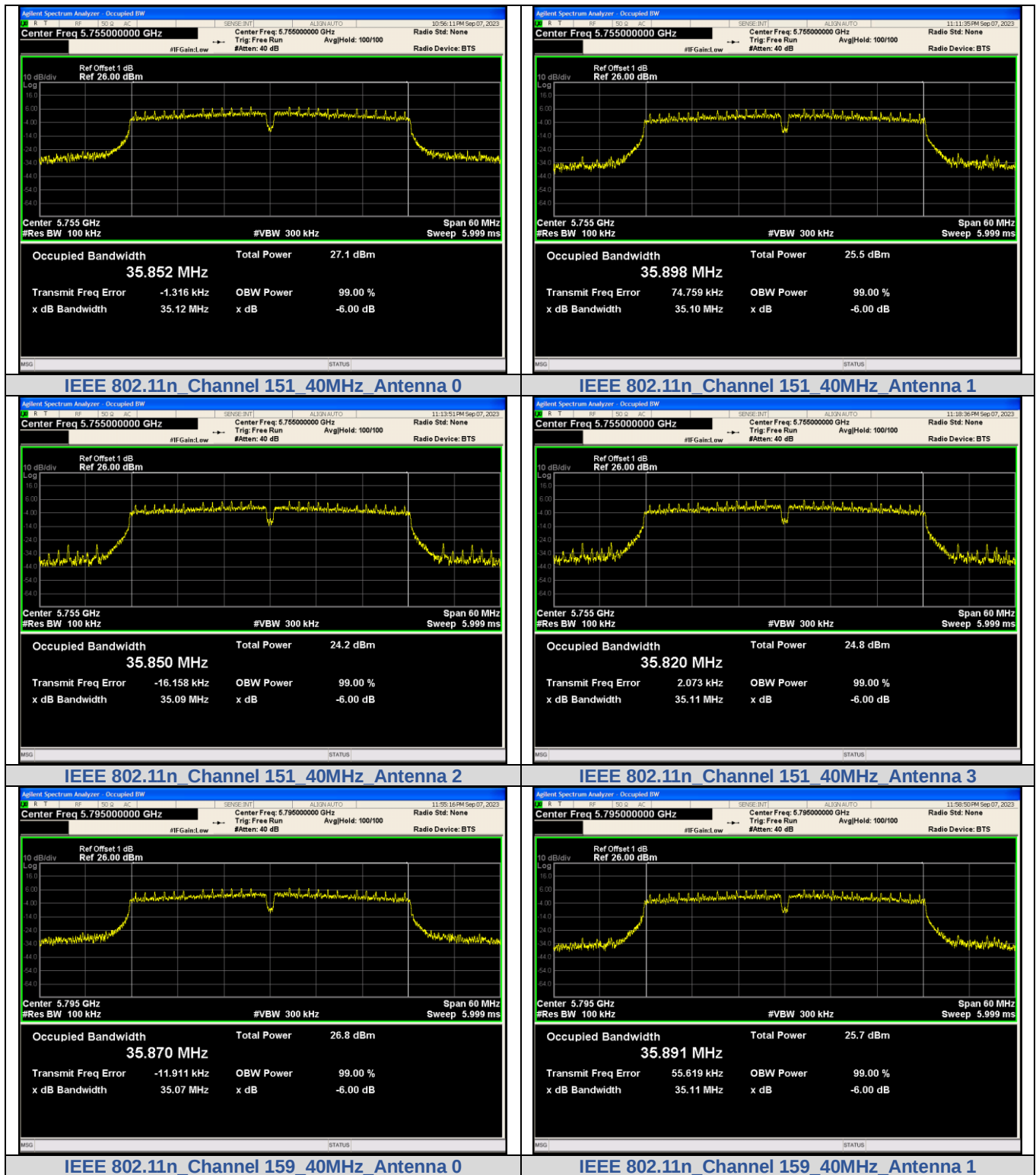
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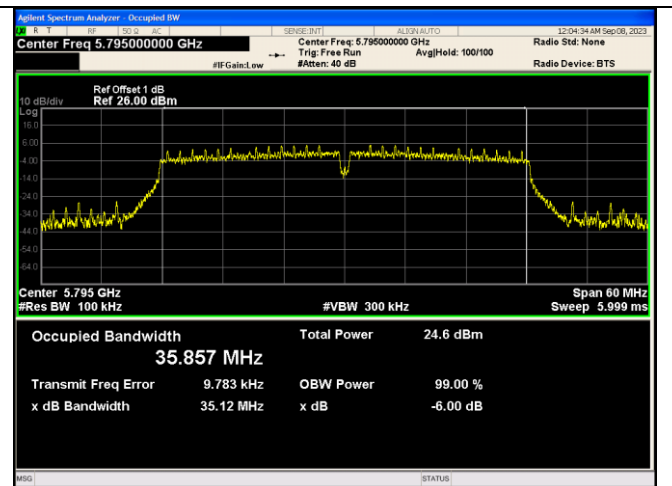
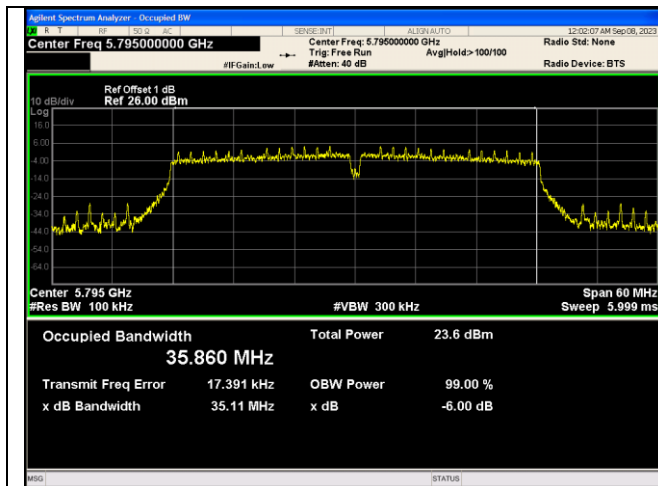
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Tel.: (86)755-27521059

Fax: (86)755-27521011

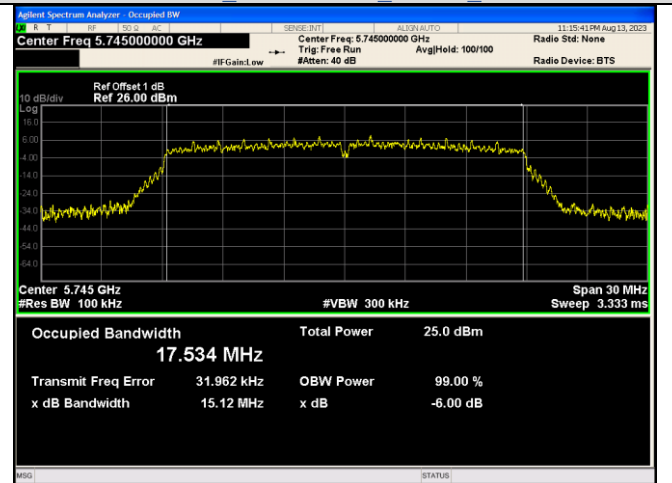
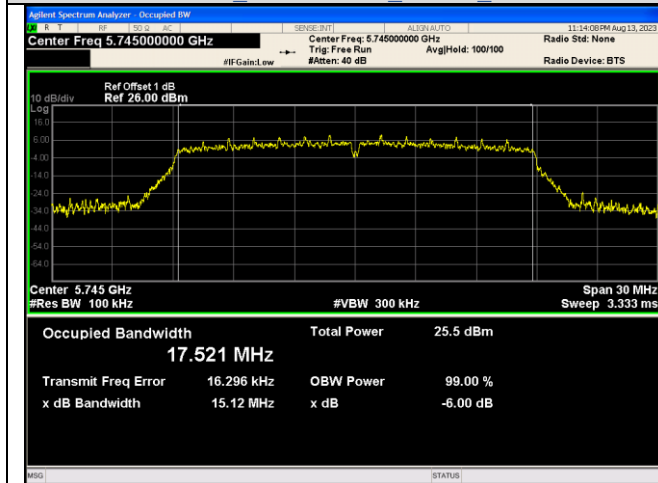
Http://www.sz-ctc.org.cn

For anti-fake verification, please visit the official website of Certification and Accreditation Administration of the People's Republic of China : yz.cnca.cn



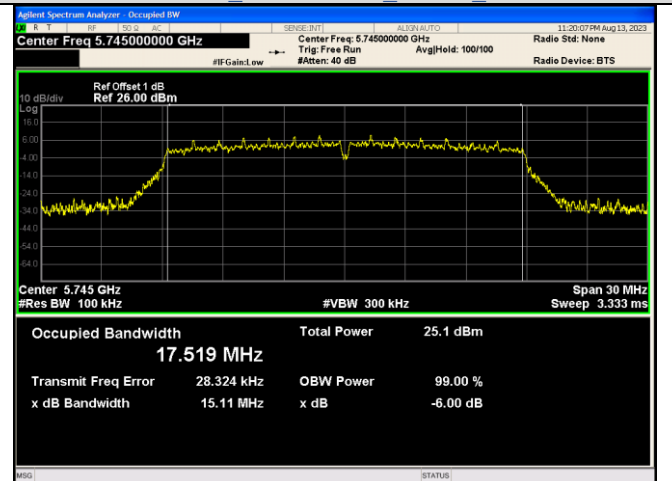
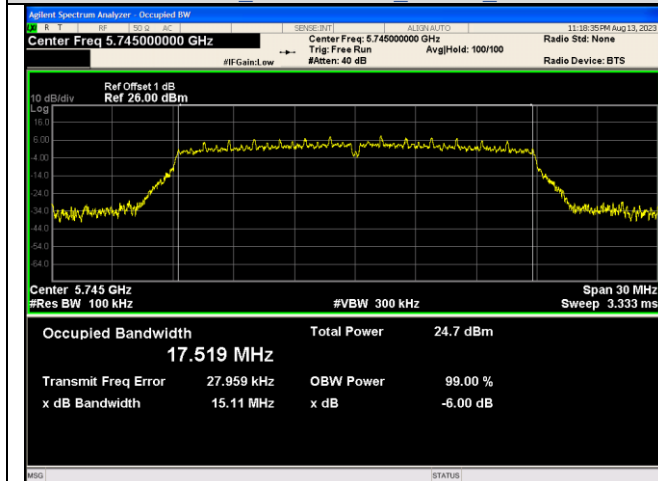
IEEE 802.11n Channel 159 40MHz Antenna 2

IEEE 802.11n Channel 159 40MHz Antenna 3



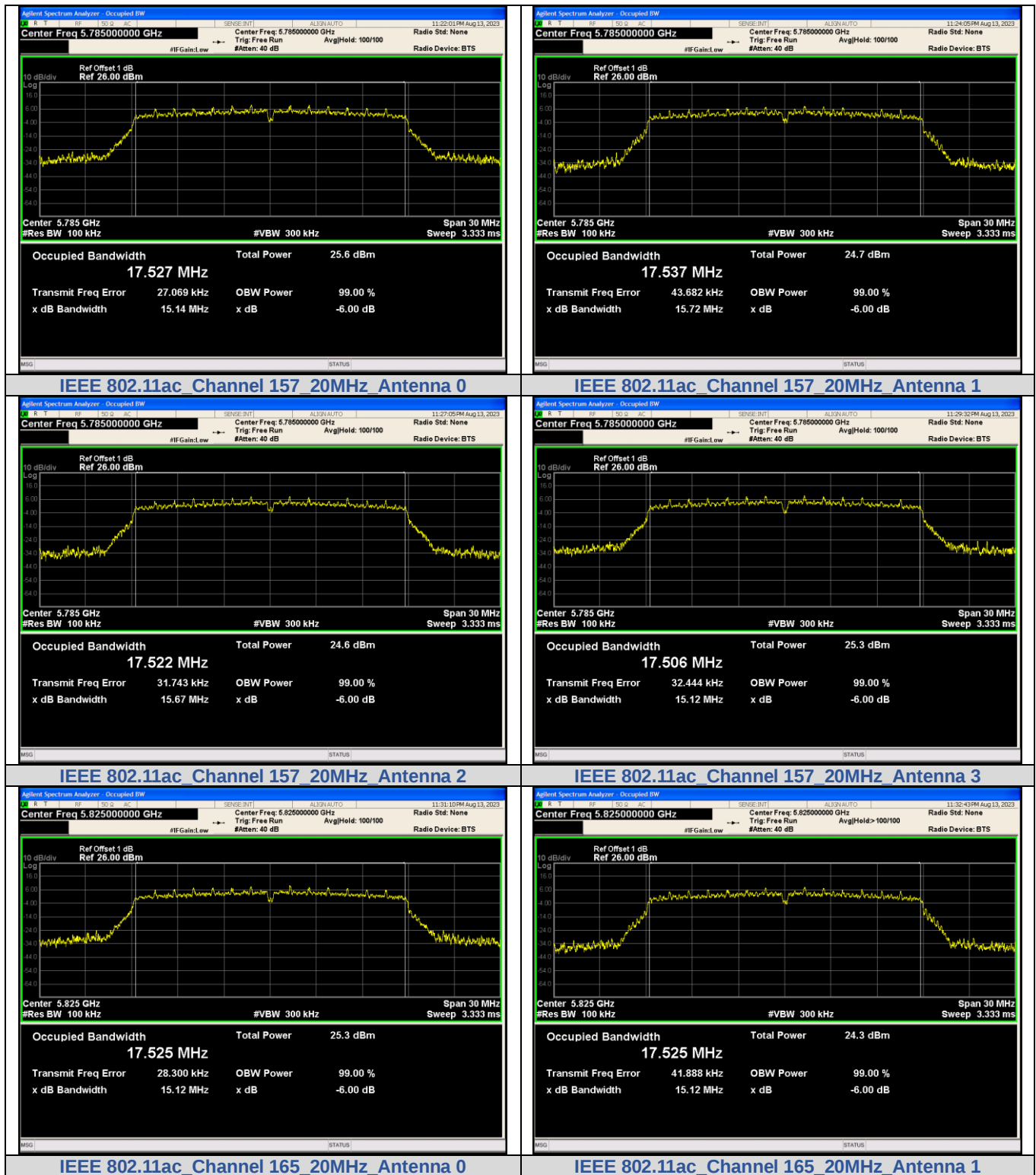
IEEE 802.11ac Channel 149 20MHz Antenna 0

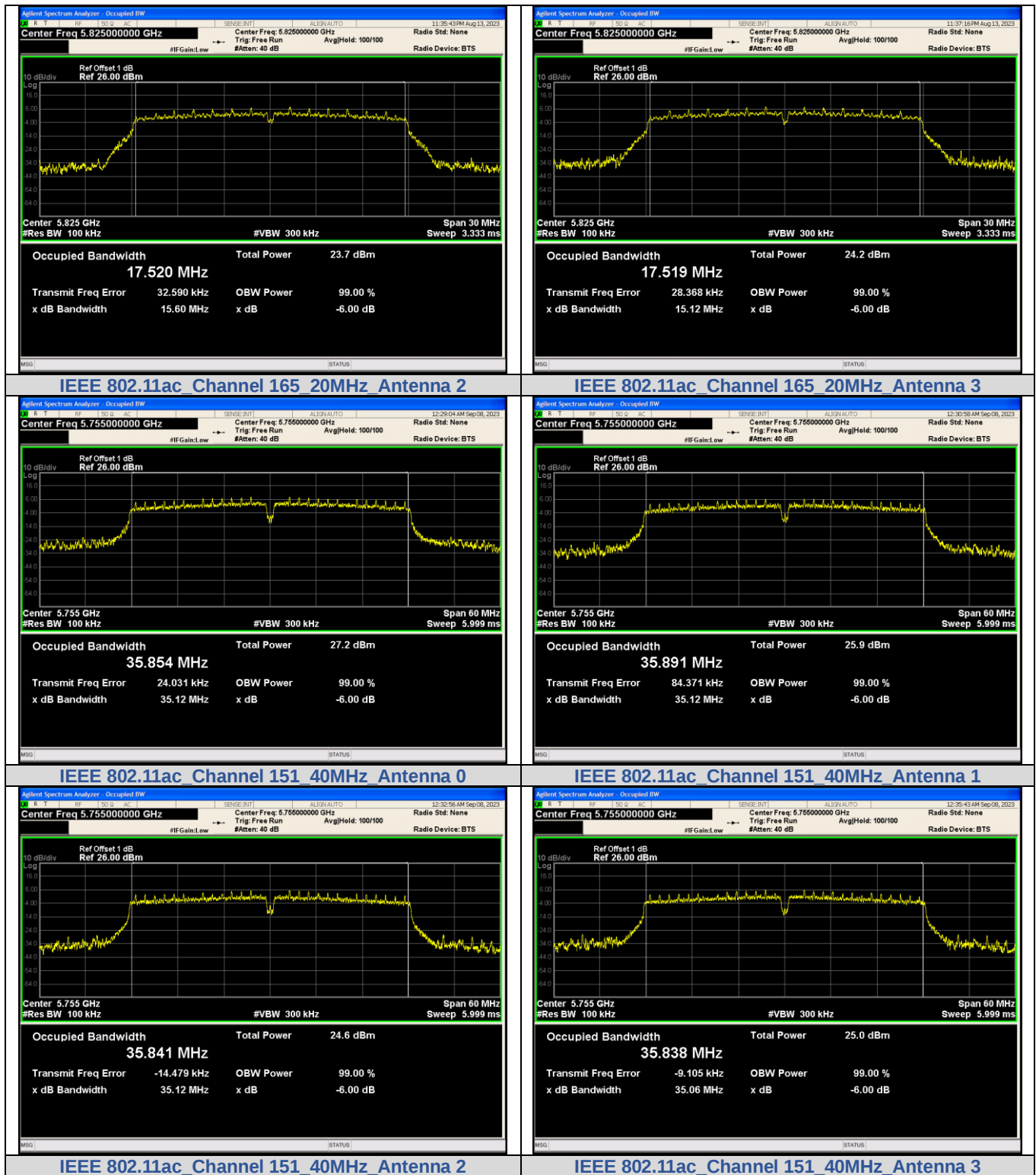
IEEE 802.11ac Channel 149 20MHz Antenna 1



IEEE 802.11ac Channel 149 20MHz Antenna 2

IEEE 802.11ac Channel 149 20MHz Antenna 3





CTC Laboratories, Inc.

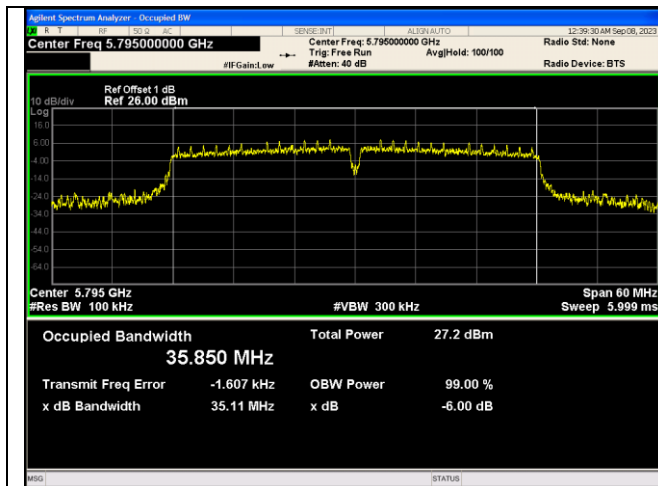
1-2/F, Building 2, Jiaquan Building, Guanlan High-Tech Park, Shenzhen, Guangdong, China

Tel.: (86)755-27521059

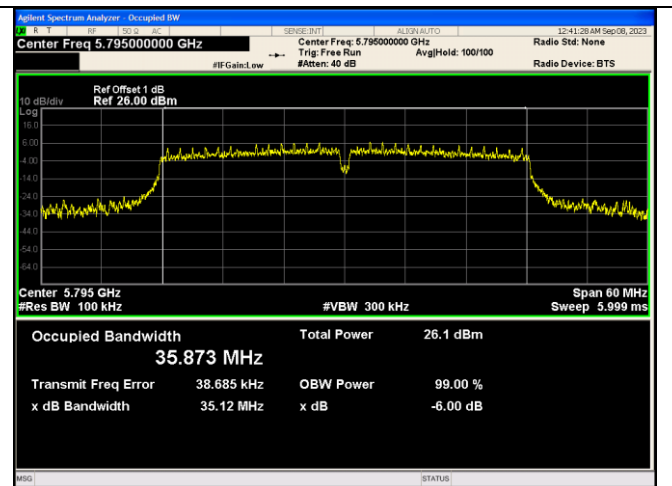
Fax: (86)755-27521011

Http://www.sz-ctc.org.cn

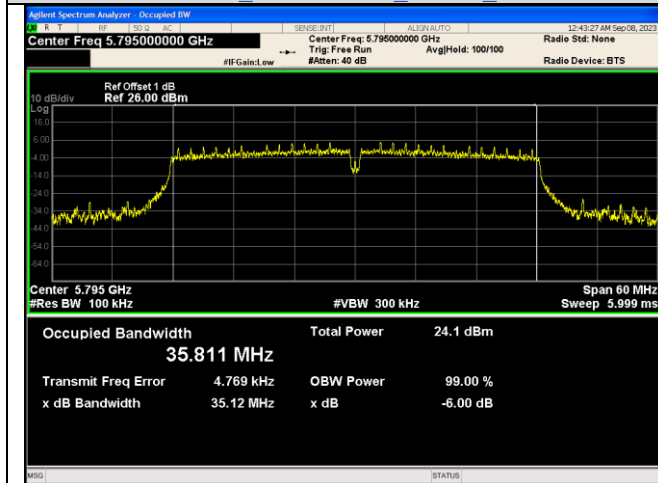
For anti-fake verification, please visit the official website of Certification and Accreditation Administration of the People's Republic of China : yz.cnca.cn



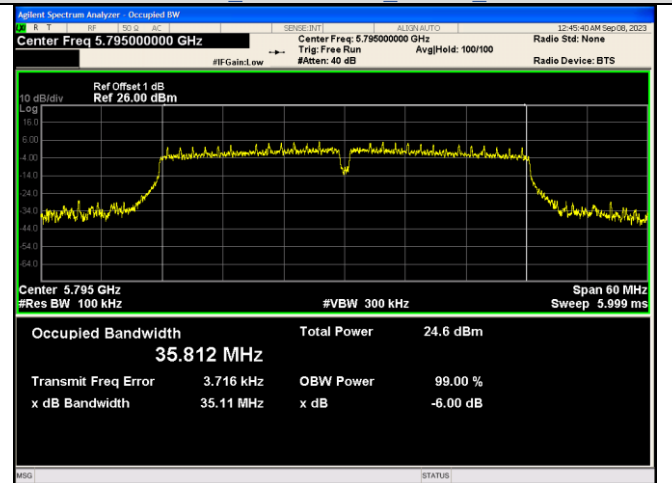
IEEE 802.11ac Channel 159 40MHz Antenna 0



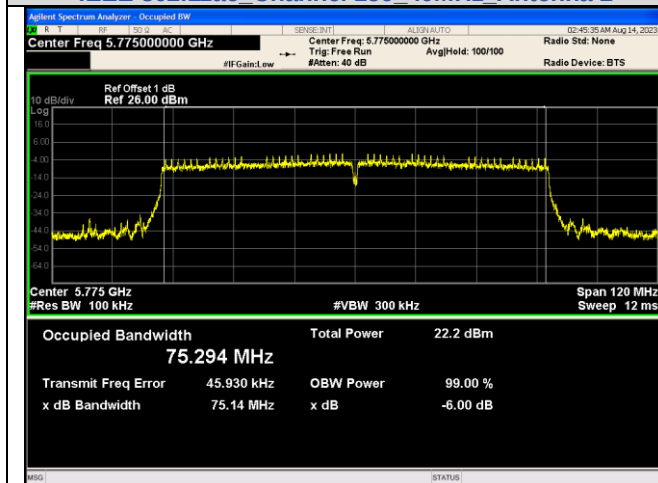
IEEE 802.11ac Channel 159 40MHz Antenna 1



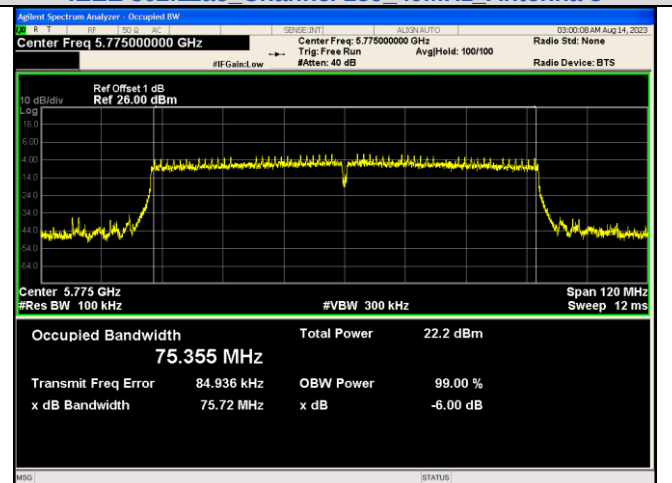
IEEE 802.11ac Channel 159 40MHz Antenna 2



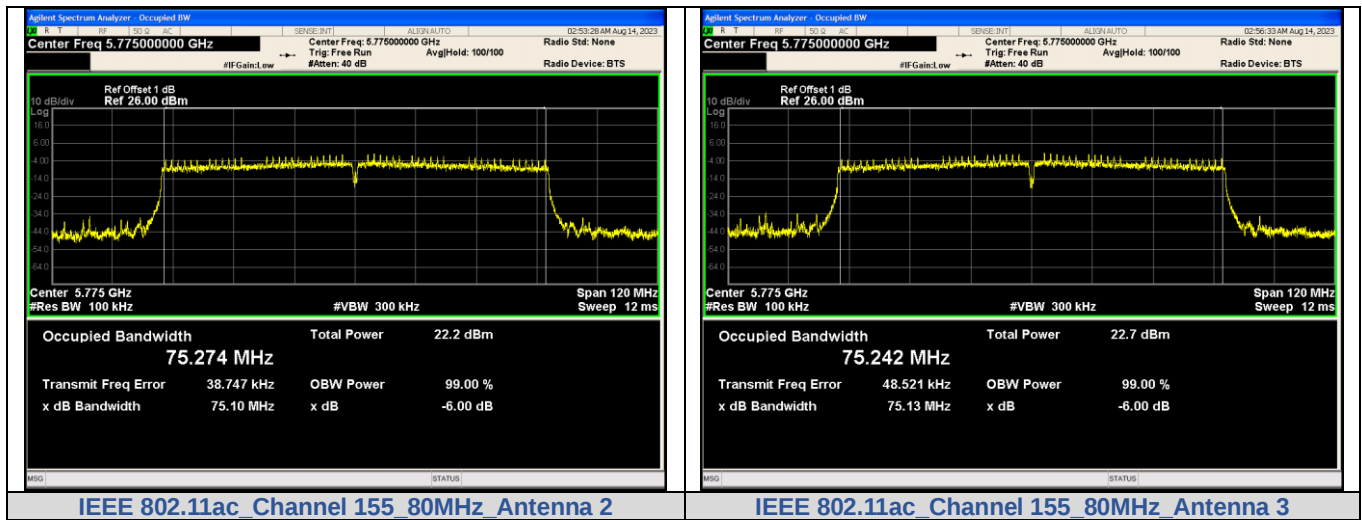
IEEE 802.11ac Channel 159 40MHz Antenna 3

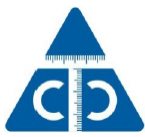


IEEE 802.11ac Channel 155 80MHz Antenna 0



IEEE 802.11ac Channel 155 80MHz Antenna 1

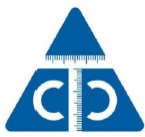




Appendix B: Maximum conducted output power

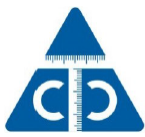
Test Result

Mode	Channel	Ant. 0 (dBm)	Ant. 1 (dBm)	Ant. 2 (dBm)	Ant. 3 (dBm)	Total (dBm)	Limit (dBm)	Result
IEEE 802.11a	36	17.96	17.74	18.03	17.23	N/A	30	PASS
	40	18.09	17.4	17.72	17.38	N/A	30	PASS
	48	17.84	17.86	17.61	17.17	N/A	30	PASS
	52	17.92	17.95	17.35	17.35	N/A	23.98	PASS
	56	17.55	17.72	17.45	17.22	N/A	23.98	PASS
	64	17.87	18.1	17.5	17.2	N/A	23.98	PASS
	100	17.61	17.59	18.09	17.35	N/A	23.98	PASS
	116	17.58	17.62	18.07	17.58	N/A	23.98	PASS
	140	17.64	17.66	17.5	17.81	N/A	23.98	PASS
IEEE 802.11n_20	36	18.29	16.9	17.78	18.31	23.88	26.98	PASS
	40	18.57	17.3	18.09	18.59	24.19	26.98	PASS
	48	18.27	17.39	17.74	18.18	23.93	26.98	PASS
	52	12.9	11.69	11.38	12.28	18.12	20.96	PASS
	56	13.12	12.02	11.19	12.09	18.18	20.96	PASS
	64	12.69	11.56	11.77	12.56	18.19	20.96	PASS
	100	13.23	12.94	11.12	11.51	18.31	20.96	PASS
	116	13.5	13.33	11.99	12.0	18.78	20.96	PASS
	140	12.74	12.37	11.02	11.3	17.94	20.96	PASS
IEEE 802.11n_40	38	18.4	17.05	17.73	17.88	23.81	26.98	PASS
	46	16.71	16.63	17.42	17.54	23.11	26.98	PASS
	54	14.835	13.631	13.173	14.047	19.99	20.96	PASS
	62	14.392	13.276	13.678	14.373	19.98	20.96	PASS
	102	14.950	14.570	13.167	13.589	20.15	20.96	PASS
	110	14.894	14.614	13.377	13.268	20.12	20.96	PASS
	134	15.254	14.490	13.689	13.175	20.24	20.96	PASS
IEEE 802.11ac_20	36	18.19	16.73	17.34	18.01	23.63	26.98	PASS
	40	18.11	16.76	18.26	18.74	24.05	26.98	PASS
	48	17.9	16.92	16.93	18.46	23.62	26.98	PASS
	52	12.67	11.45	11.24	12.24	17.96	20.96	PASS
	56	13.16	11.91	11.13	12.12	18.16	20.96	PASS
	64	12.02	11.15	11.32	12.26	17.73	20.96	PASS
	100	12.47	12.14	10.37	10.72	17.54	20.96	PASS
	116	12.88	12.62	11.33	11.33	18.12	20.96	PASS



	140	12.56	12.22	11.0	11.29	17.84	20.96	PASS
IEEE 802.11ac_40	38	16.21	15.01	15.83	16.26	21.88	26.98	PASS
	46	15.91	15.05	15.77	16.03	21.73	26.98	PASS
	54	15.080	13.808	13.197	13.997	20.10	20.96	PASS
	62	14.57	13.33	13.47	14.14	19.93	20.96	PASS
	102	14.2	13.85	14.77	13.89	20.21	20.96	PASS
	110	15.14	14.6	13.28	13.22	20.16	20.96	PASS
	134	15.42	14.39	13.61	13.33	20.29	20.96	PASS
IEEE 802.11ac_80	42	15.61	14.42	15.42	15.84	21.38	26.98	PASS
	58	13.993	13.671	14.292	14.883	20.25	20.96	PASS
	106	13.748	14.271	12.805	12.674	19.45	20.96	PASS
	122	14.588	14.930	14.025	13.880	20.40	20.96	PASS

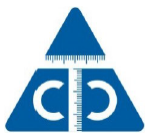
Mode	Channel	Ant. 0 (dBm)	Ant. 1 (dBm)	Ant. 2 (dBm)	Ant. 3 (dBm)	Total (dBm)	Limit (dBm)	Result
IEEE 802.11a	149	17.24	18.03	18.04	17.76	N/A	30	PASS
	157	17.56	17.36	17.93	17.99	N/A	30	PASS
	165	17.92	17.2	17.61	17.79	N/A	30	PASS
IEEE 802.11n_20	149	21.13	19.86	19.03	19.26	25.92	26.98	PASS
	157	21.29	19.93	18.43	18.76	25.77	26.98	PASS
	165	20.82	19.87	17.9	18.47	25.44	26.98	PASS
IEEE 802.11n_40	151	22.25	20.8	19.42	20.01	26.77	26.98	PASS
	159	22.11	20.83	19.04	19.88	26.64	26.98	PASS
IEEE 802.11ac_20	149	19.71	18.85	19.06	19.65	25.35	26.98	PASS
	157	20.12	18.94	18.92	19.48	25.41	26.98	PASS
	165	19.58	18.54	17.98	18.49	24.71	26.98	PASS
IEEE 802.11ac_40	151	21.65	20.26	19.05	19.41	26.23	26.98	PASS
	159	21.86	20.51	18.81	19.27	26.3	26.98	PASS
IEEE 802.11ac_80	155	18.35	17.13	17.33	17.73	23.68	26.98	PASS



Appendix C: Maximum power spectral density

Test Result

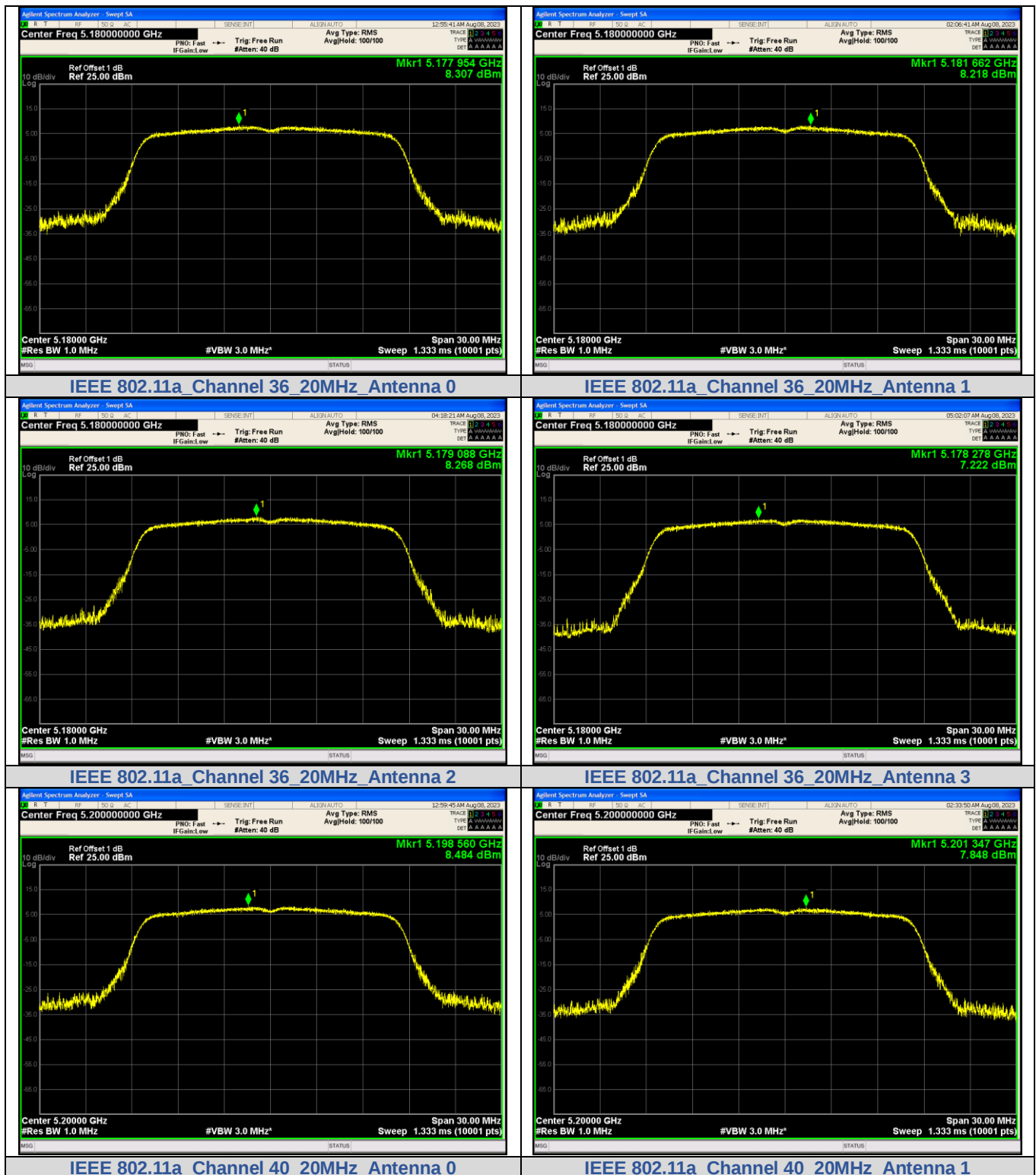
Mod e	Ch	Ant. 0 Meas PSD	Ant. 1 Meas PSD	Ant. 2 Meas PSD	Ant. 3 Meas PSD	Ant. 0 Corr'd PSD	Ant. 1 Corr'd PSD	Ant. 2 Corr'd PSD	Ant. 3 Corr'd PSD	Total PSD	Limit (dBm /MHz)	Result
a	36	8.307	8.218	8.268	7.222	8.472	8.384	8.432	7.388	N/A	17	PASS
	40	8.484	7.848	7.936	7.540	8.649	8.015	8.099	7.707	N/A	17	PASS
	48	7.991	7.757	7.732	7.621	8.156	7.923	7.895	7.788	N/A	17	PASS
	52	7.893	7.665	7.598	7.596	8.06	7.832	7.765	7.763	N/A	11	PASS
	56	7.515	7.524	7.520	7.468	7.68	7.691	7.682	7.635	N/A	11	PASS
	64	7.815	8.280	7.280	7.202	7.982	8.446	7.447	7.369	N/A	11	PASS
	100	7.911	7.743	8.671	7.526	8.076	7.909	8.837	7.693	N/A	11	PASS
	116	7.168	7.232	7.995	7.263	7.333	7.399	8.158	7.431	N/A	11	PASS
	140	8.156	8.870	7.733	8.182	8.322	9.037	7.896	8.349	N/A	11	PASS
n20	36	6.951	5.468	6.198	6.536	7.991	6.519	7.238	7.581	13.386	13.98	PASS
	40	7.366	6.115	6.444	7.173	8.406	7.184	7.484	8.215	13.872	13.98	PASS
	48	6.554	5.413	6.614	6.711	7.594	6.476	7.654	7.757	13.421	13.98	PASS
	52	1.583	-0.244	-0.281	0.954	2.637	0.827	0.759	2.022	7.656	7.98	PASS
	56	1.383	0.407	-0.589	0.426	2.434	1.478	0.485	1.495	7.548	7.98	PASS
	64	1.364	-0.054	0.058	0.485	2.425	1.018	1.127	1.556	7.588	7.98	PASS
	100	1.879	1.306	-0.120	-0.129	2.94	2.375	0.92	0.94	7.905	7.98	PASS
	116	1.589	1.278	-0.161	-0.147	2.646	2.349	0.897	0.921	7.798	7.98	PASS
	140	1.408	1.059	-0.650	-0.173	2.459	2.101	0.39	0.898	7.564	7.98	PASS
n40	38	3.072	1.260	2.360	2.373	4.714	2.912	3.995	4.029	9.980	13.98	PASS
	46	1.097	0.906	1.900	1.797	2.732	2.544	3.535	3.436	9.104	13.98	PASS
	54	0.189	-0.520	-1.047	-0.664	1.828	1.124	0.592	0.988	7.177	7.98	PASS
	62	-0.641	-1.481	-1.395	-0.266	1.006	0.171	0.247	1.389	6.754	7.98	PASS
	102	0.187	-0.579	-0.491	-1.084	1.826	1.079	1.16	0.58	7.205	7.98	PASS
	110	0.136	-0.342	-1.243	-1.407	1.777	1.307	0.392	0.247	6.998	7.98	PASS
	134	-0.047	-0.723	-1.151	-1.812	1.595	0.916	0.484	-0.158	6.777	7.98	PASS
ac20	36	7.444	6.339	6.547	7.196	8.031	6.927	7.125	7.79	13.513	13.98	PASS
	40	7.734	6.480	7.378	7.735	8.312	7.065	7.953	8.313	13.960	13.98	PASS
	48	6.897	6.146	6.321	8.112	7.478	6.731	6.899	8.704	13.545	13.98	PASS
	52	1.756	0.583	0.534	1.621	2.341	1.175	1.126	2.213	7.771	7.98	PASS
	56	1.872	1.022	0.413	1.407	2.464	1.614	0.991	2.001	7.821	7.98	PASS
	64	1.205	0.403	0.553	1.265	1.786	0.994	1.144	1.86	7.483	7.98	PASS
	100	1.875	1.765	-0.077	0.125	2.471	2.357	0.514	0.717	7.628	7.98	PASS
	116	1.688	1.666	-0.062	0.023	2.273	2.258	0.519	0.615	7.519	7.98	PASS
	140	1.834	1.891	0.184	0.612	2.412	2.482	0.767	1.206	7.801	7.98	PASS
ac40	38	1.928	1.160	1.265	1.817	2.915	2.158	2.249	2.807	8.566	13.98	PASS
	46	1.600	0.789	1.287	2.045	2.588	1.783	2.271	3.034	8.464	13.98	PASS
	54	1.177	-0.079	-0.646	-0.399	2.17	0.915	0.346	0.604	7.088	1.177	PASS
	62	0.054	-1.119	-1.269	-0.421	1.042	-0.122	-0.281	0.58	6.359	7.98	PASS
	102	-0.349	-0.623	0.569	-0.514	0.644	0.375	1.57	0.487	6.816	7.98	PASS
	110	0.512	0.319	-1.594	-1.605	1.505	1.319	-0.596	-0.604	6.543	7.98	PASS
	134	1.092	-0.341	-0.955	-1.152	2.087	0.66	0.032	-0.152	6.771	7.98	PASS
	142	-2.703	-4.259	-3.281	-2.908	-1.166	-2.722	-1.741	-1.361	4.313	13.98	PASS
ac80	58	-3.470	-3.959	-2.560	-2.675	-1.911	-2.405	-1.013	-1.119	4.446	7.98	PASS
	106	-3.987	-3.571	-4.209	-4.656	-2.432	-2.024	-2.666	-3.102	3.482	7.98	PASS
	122	-3.526	-3.047	-3.997	-4.131	-1.976	-1.494	-2.45	-2.575	3.918	7.98	PASS



Mode	Channel	Ant. 0 Meas PSD	Ant. 1 Meas PSD	Ant. 2 Meas PSD	Ant. 3 Meas PSD	Ant. 0 Corr'd PSD	Ant. 1 Corr'd PSD	Ant. 2 Corr'd PSD	Ant. 3 Corr'd PSD	Total PSD	Limit (dBm /0.5MHz)	Result
a	149	4.674	5.228	5.087	4.740	4.84	5.395	5.25	4.907	N/A	26.98	PASS
	157	4.817	4.637	5.076	5.229	4.983	4.804	5.238	5.395	N/A		PASS
	165	4.842	4.482	5.102	4.823	5.007	4.649	5.264	4.99	N/A		PASS
n20	149	6.541	5.466	4.823	4.740	7.581	6.517	5.859	5.794	12.520		PASS
	157	6.524	5.522	3.827	4.313	7.569	6.566	4.867	5.355	12.239		PASS
	165	6.307	5.521	3.325	3.674	7.376	6.592	4.393	4.742	11.975		PASS
n40	151	3.675	2.297	1.461	1.770	5.323	3.933	3.099	3.408	10.049		PASS
	159	4.302	2.304	0.107	1.327	5.963	3.943	1.742	2.968	9.957		PASS
ac20	149	5.816	5.484	5.570	5.801	6.401	6.062	6.145	6.389	12.272		PASS
	157	6.109	5.159	5.262	5.985	6.694	5.737	5.836	6.577	12.253		PASS
	165	5.859	4.618	4.163	4.781	6.434	5.206	4.741	5.369	11.504		PASS
ac40	151	4.255	2.701	1.591	2.048	5.25	3.689	2.575	3.041	9.782		PASS
	159	4.497	3.514	1.308	2.047	5.485	4.504	2.295	3.038	10.029		PASS
ac80	155	-3.270	-4.756	-3.960	-3.820	-1.723	-3.211	-2.416	-2.275	3.646		PASS



Test Graphs



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