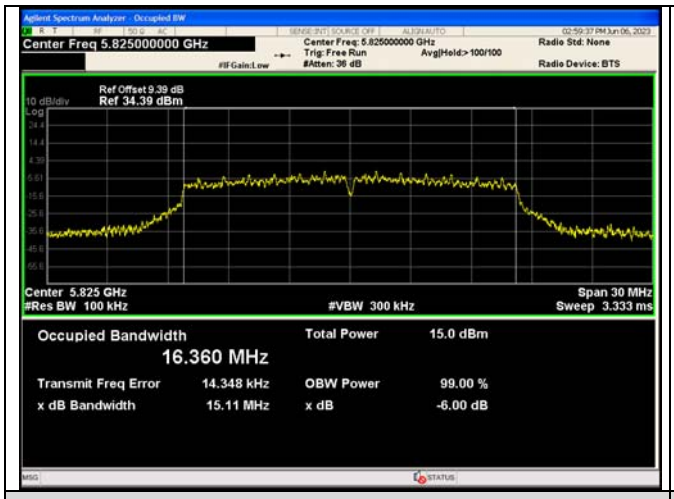
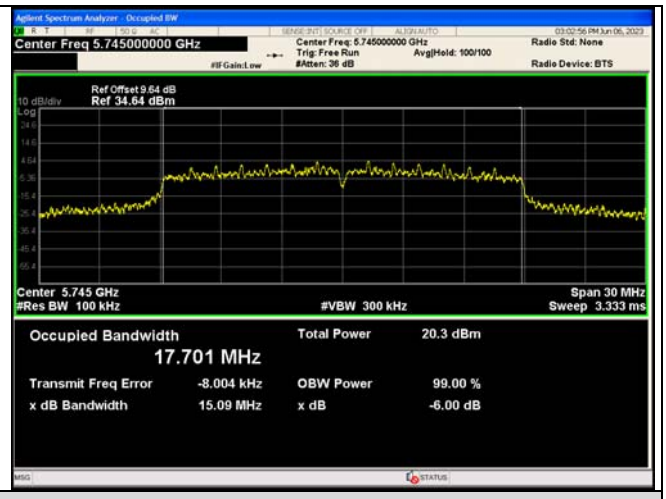
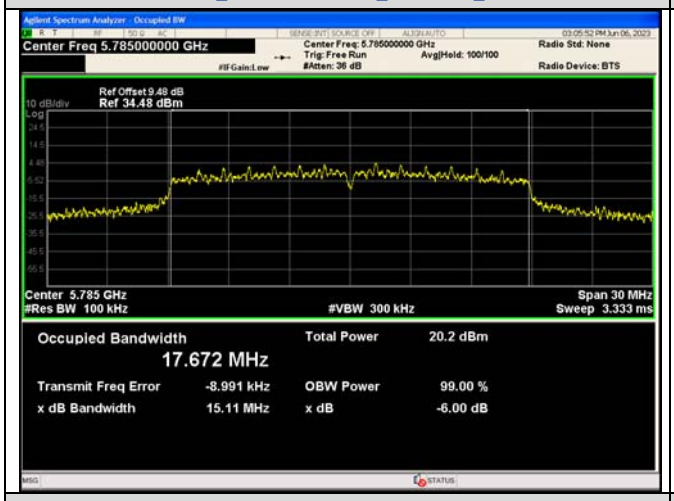


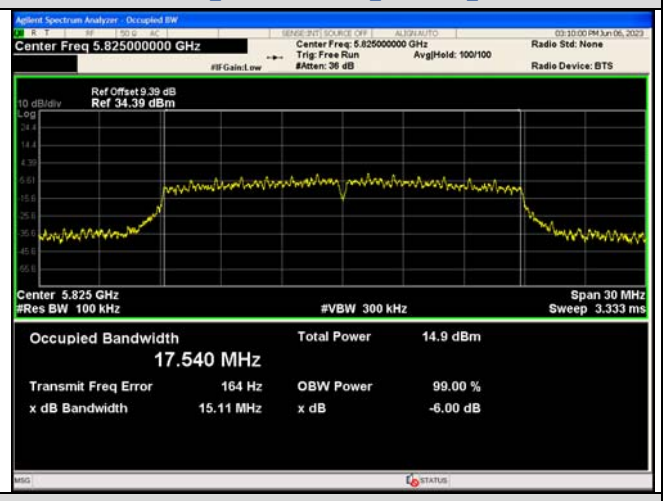
IEEE 802.11a_Channel 165_20MHz_Antenna 0



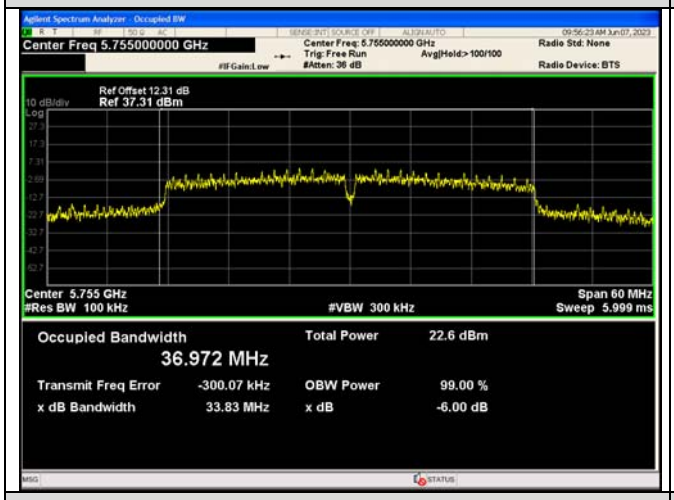
IEEE 802.11n_Channel 149_20MHz_Antenna 0



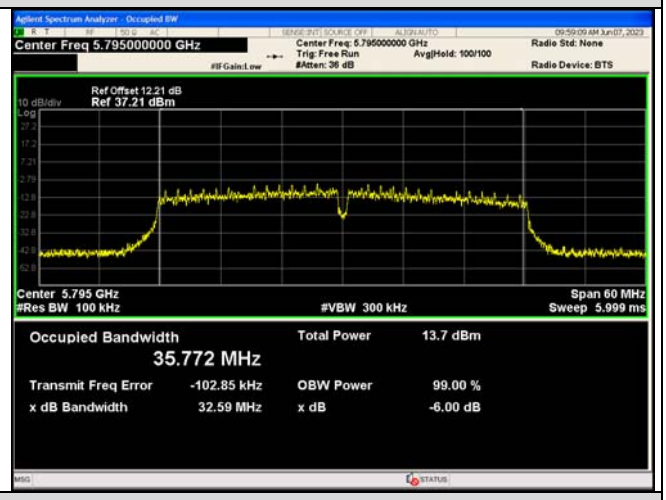
IEEE 802.11n_Channel 157_20MHz_Antenna 0



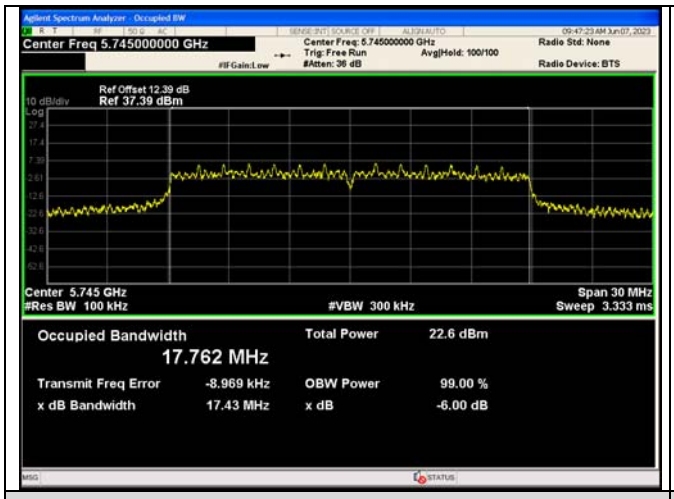
IEEE 802.11n_Channel 165_20MHz_Antenna 0



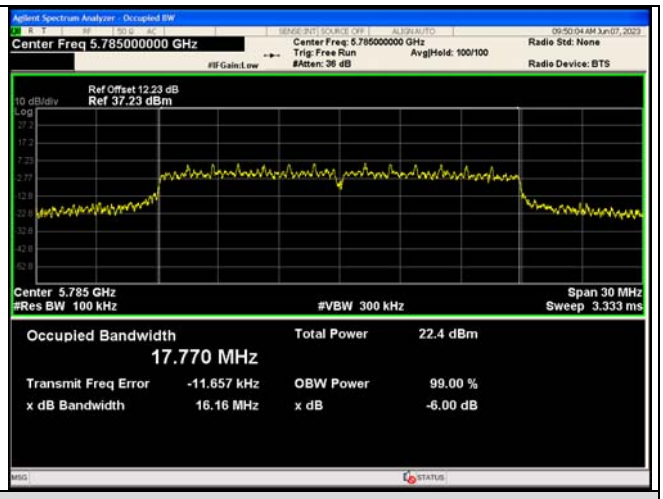
IEEE 802.11n_Channel 151_40MHz_Antenna 0



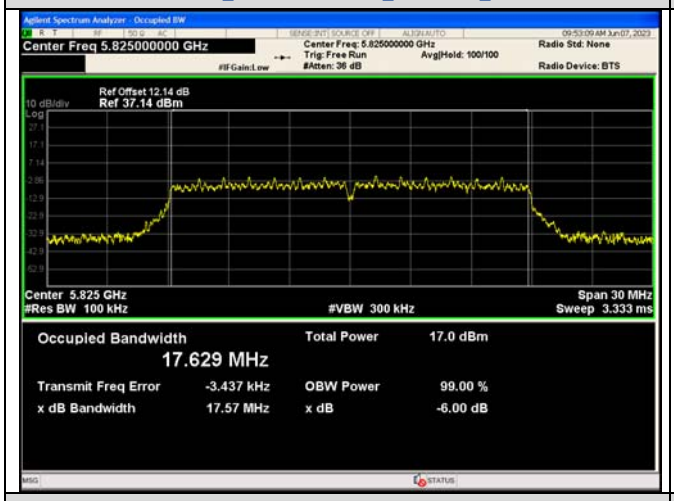
IEEE 802.11n_Channel 159_40MHz_Antenna 0



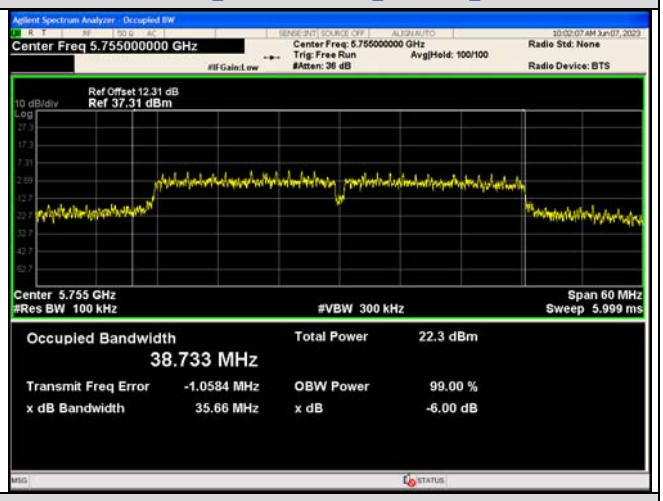
IEEE 802.11ac_Channel 149_20MHz_Antenna 0



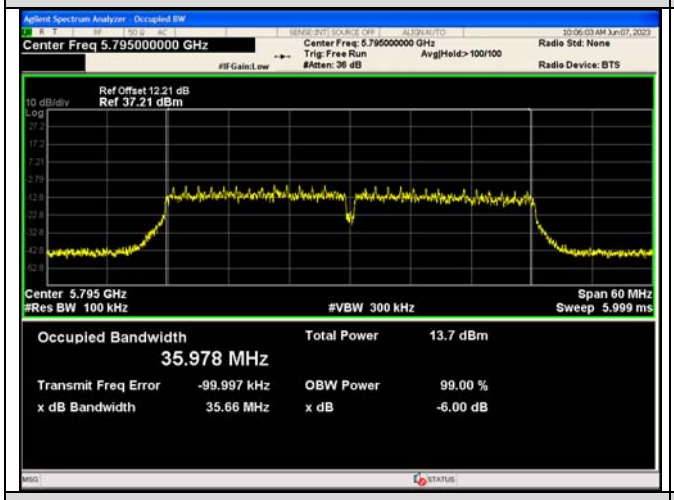
IEEE 802.11ac_Channel 157_20MHz_Antenna 0



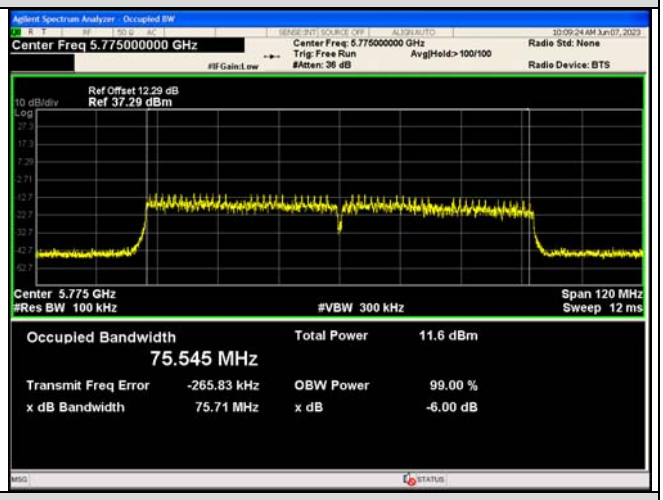
IEEE 802.11ac_Channel 165_20MHz_Antenna 0



IEEE 802.11ac_Channel 151_40MHz_Antenna 0



IEEE 802.11ac_Channel 159_40MHz_Antenna 0



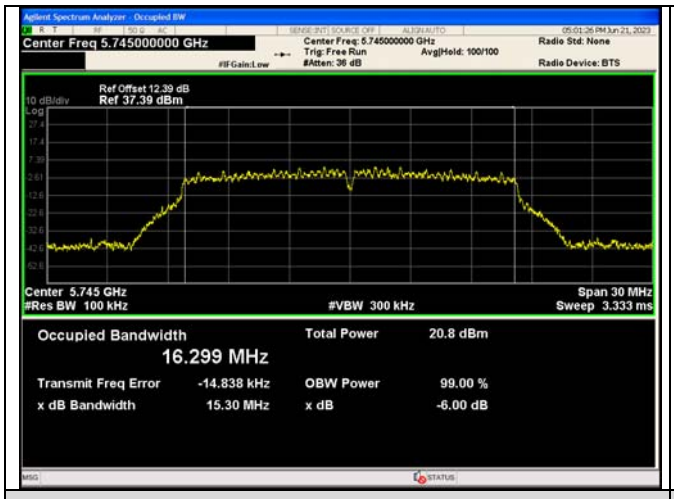
IEEE 802.11ac_Channel 155_80MHz_Antenna 0

Antenna B:

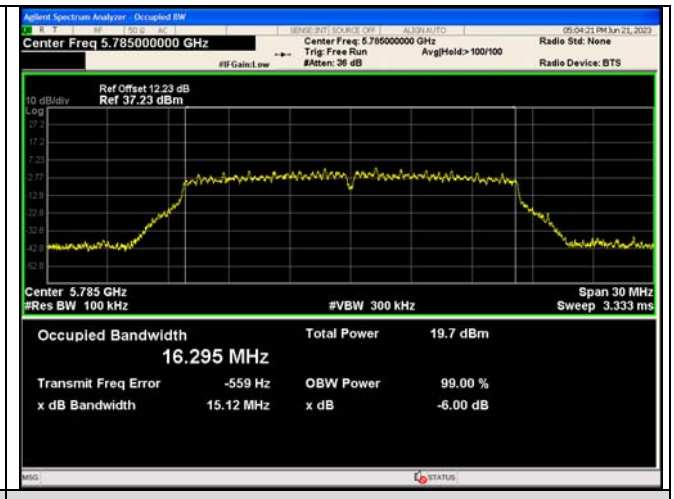
Test Result

Mode	Channel	Ant.	Center Frequency (MHz)	6 dB Bandwidth (MHz)	Limit (MHz)	Result
IEEE 802.11a	149	0	5745	15.30	0.5	PASS
	157		5785	15.12		PASS
	165		5825	15.47		PASS
IEEE 802.11n_20	149		5745	15.43		PASS
	157		5785	17.04		PASS
	165		5825	15.12		PASS
IEEE 802.11n_40	151		5755	35.11		PASS
	159		5795	35.11		PASS
IEEE 802.11ac_20	149		5745	15.11		PASS
	157		5785	16.33		PASS
	165		5825	15.62		PASS
IEEE 802.11ac_40	151		5755	35.10		PASS
	159		5795	35.10		PASS
IEEE 802.11ac_80	155		5775	75.13		PASS

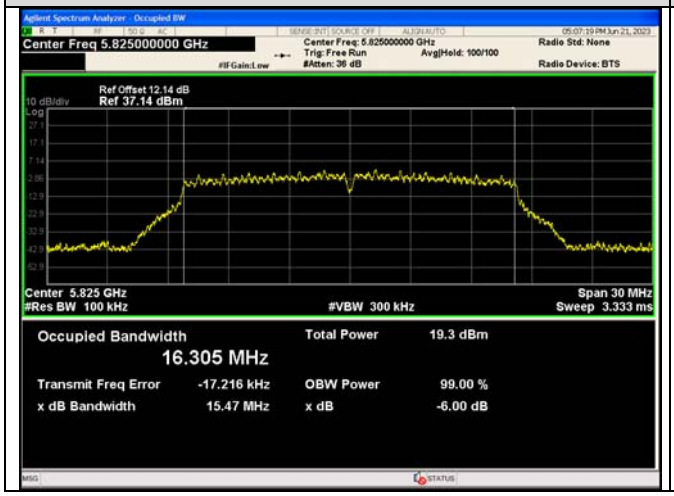
Test Graphs

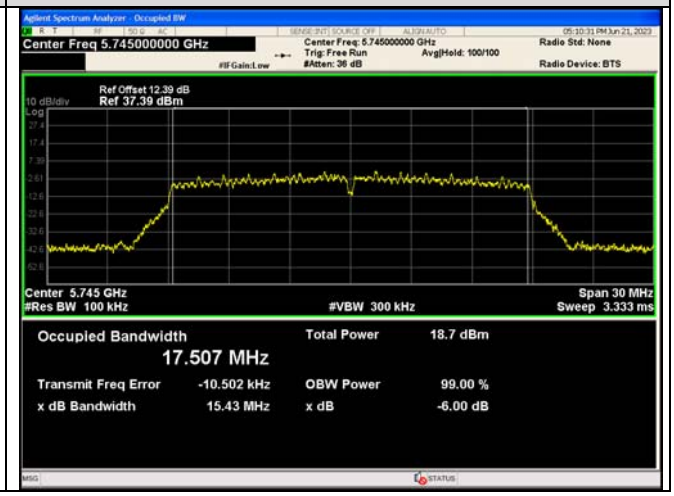


IEEE 802.11a_Channel 149_20MHz_Antenna 0



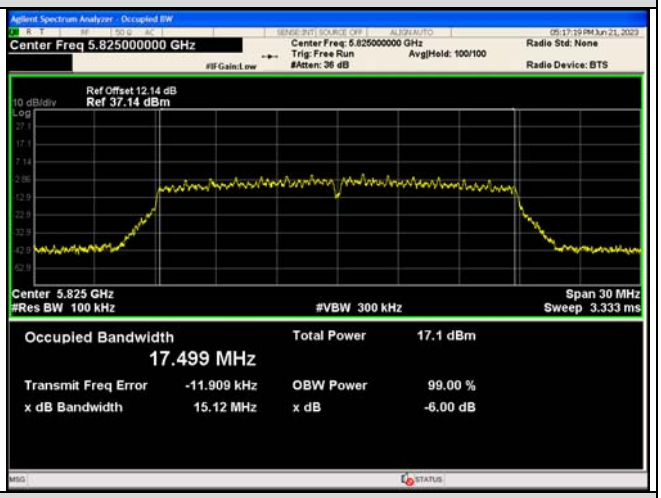
IEEE 802.11a_Channel 157_20MHz_Antenna 0



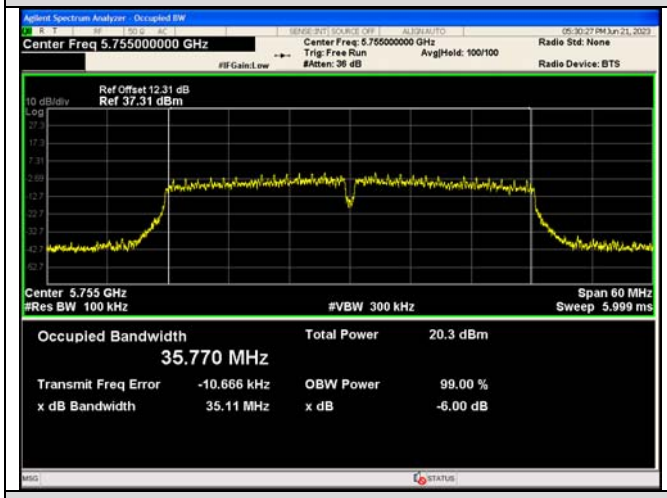


IEEE 802.11a_Channel 165_20MHz_Antenna 0

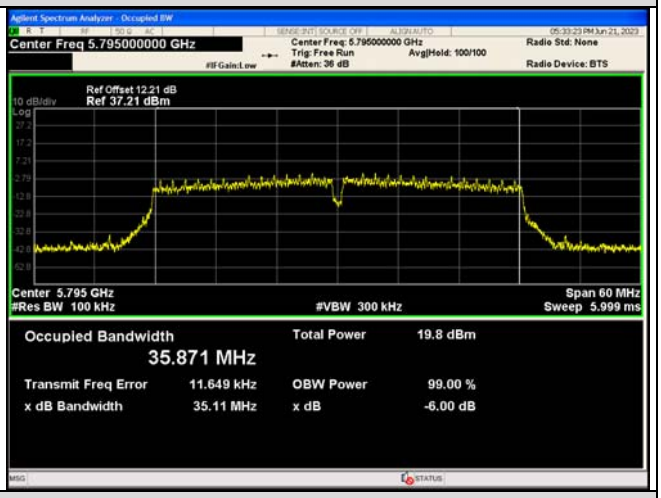
IEEE 802.11n_Channel 149_20MHz_Antenna 0



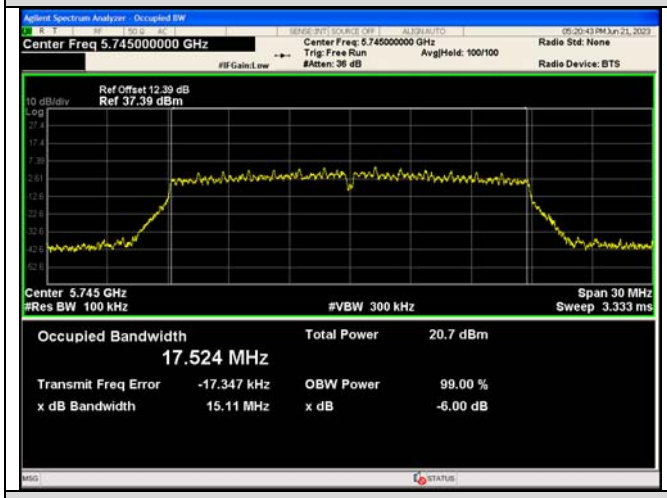
IEEE 802.11n_Channel 157_20MHz_Antenna 0



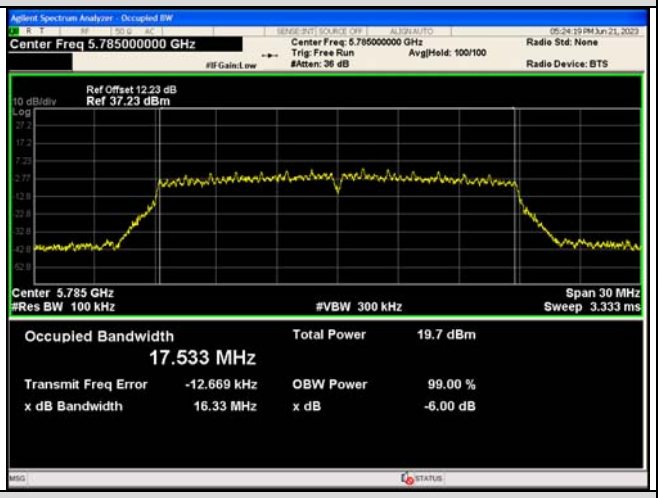
IEEE 802.11n_Channel 165_20MHz_Antenna 0



IEEE 802.11n_Channel 151_40MHz_Antenna 0

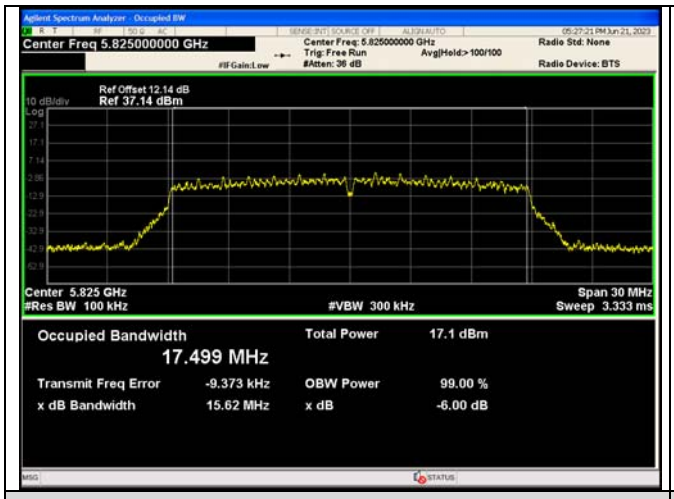


IEEE 802.11n_Channel 159_40MHz_Antenna 0

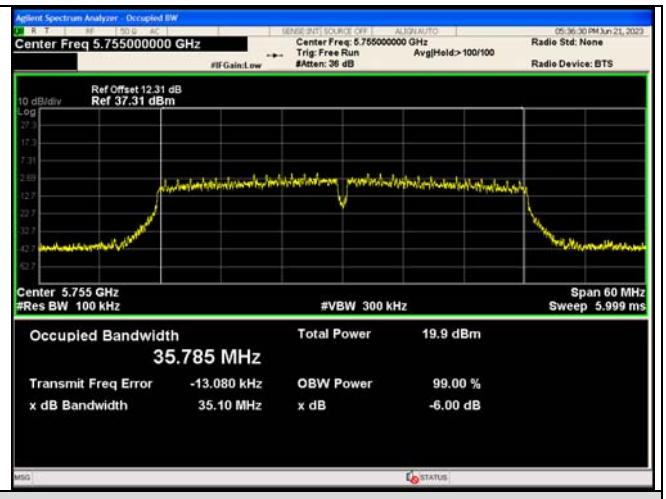


IEEE 802.11ac_Channel 149_20MHz_Antenna 0

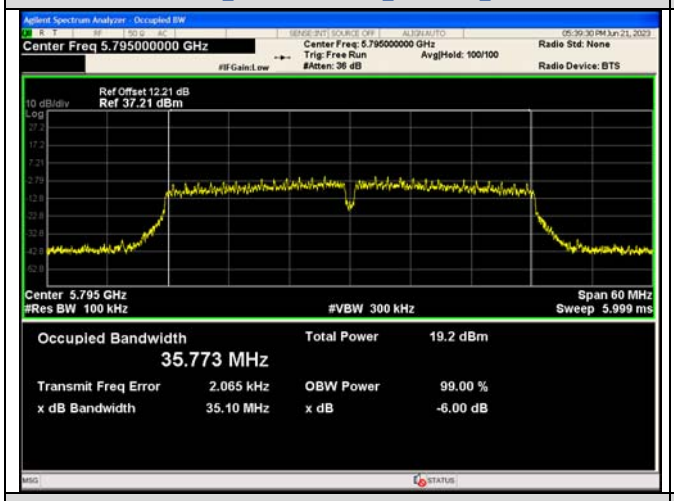
IEEE 802.11ac_Channel 157_20MHz_Antenna 0



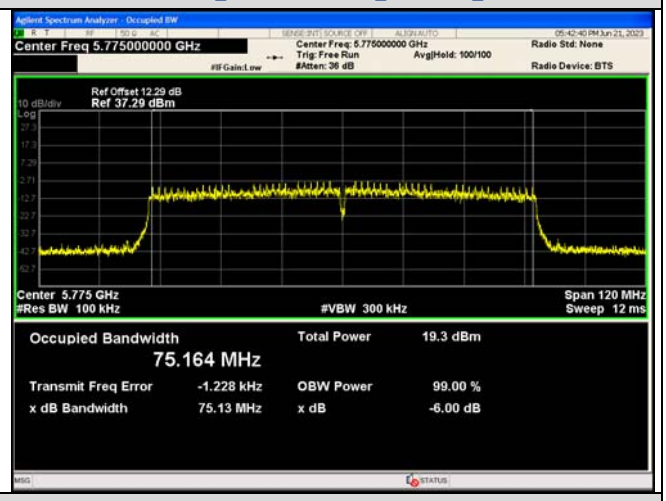
IEEE 802.11ac_Channel 165_20MHz_Antenna 0



IEEE 802.11ac_Channel 151_40MHz_Antenna 0



IEEE 802.11ac_Channel 159_40MHz_Antenna 0



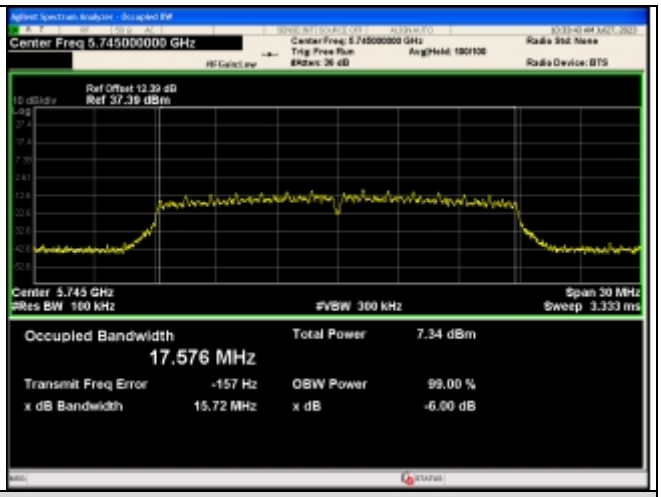
IEEE 802.11ac_Channel 155_80MHz_Antenna 0

Antenna A+ Antenna B:

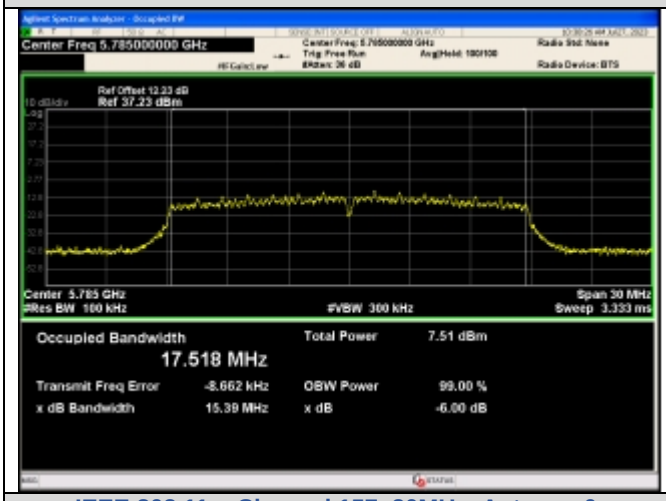
Test Result

Mode	Channel	Ant.	Center Frequency (MHz)	6 dB Bandwidth (MHz)	Limit (MHz)	Result
IEEE 802.11n_20	149	0	5745	15.72	0.5	PASS
	157		5785	15.39		PASS
	165		5825	15.89		PASS
IEEE 802.11n_40	151		5755	35.09		PASS
	159		5795	35.10		PASS
IEEE 802.11ac_20	149		5745	15.12		PASS
	157		5785	15.99		PASS
	165		5825	16.66		PASS
IEEE 802.11ac_40	151		5755	35.12		PASS
	159		5795	35.09		PASS
IEEE 802.11ac_80	155		5775	75.09		PASS

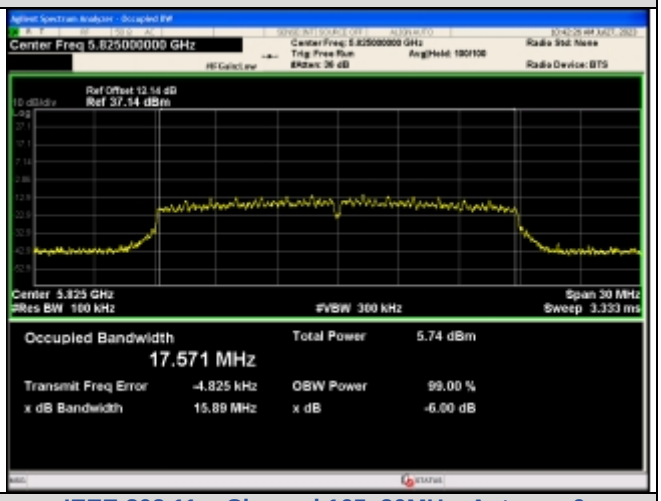
Test Graphs



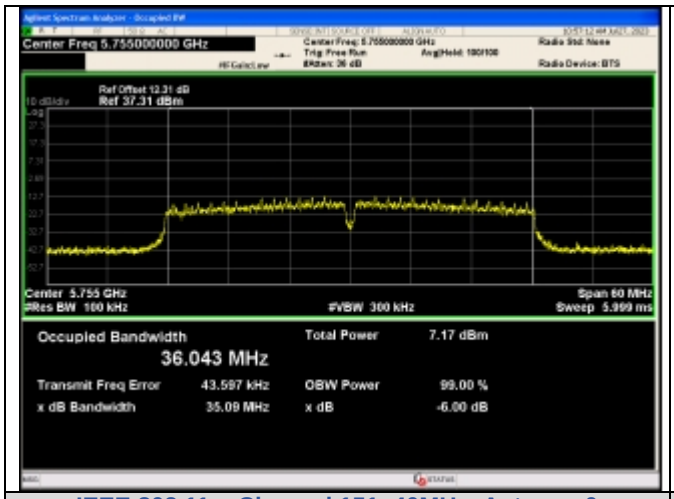
IEEE 802.11n_Channel 149_20MHz_Antenna 0



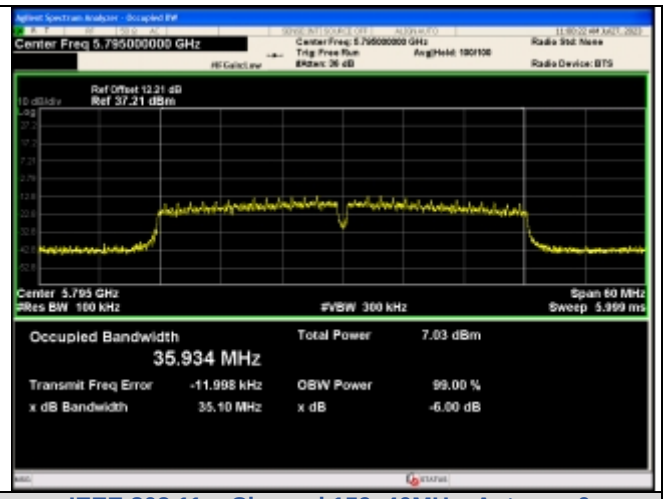
IEEE 802.11n_Channel 157_20MHz_Antenna 0



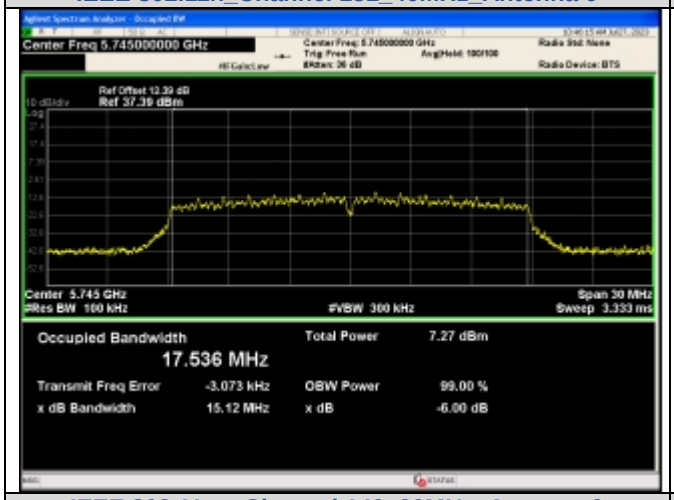
IEEE 802.11n_Channel 165_20MHz_Antenna 0



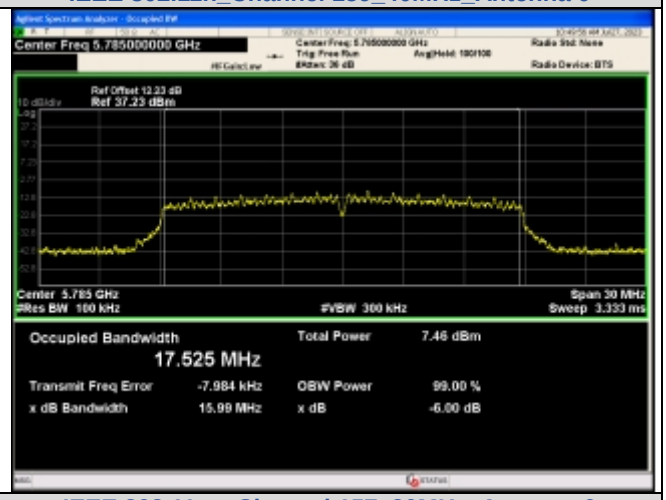
IEEE 802.11n_Channel 151_40MHz_Antenna 0



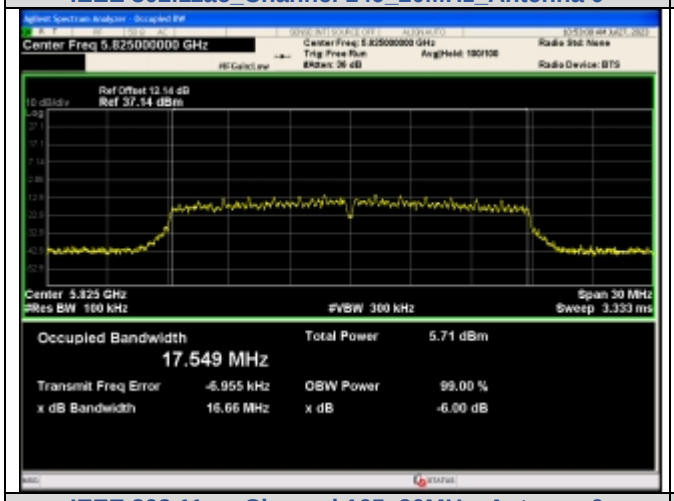
IEEE 802.11n_Channel 159_40MHz_Antenna 0



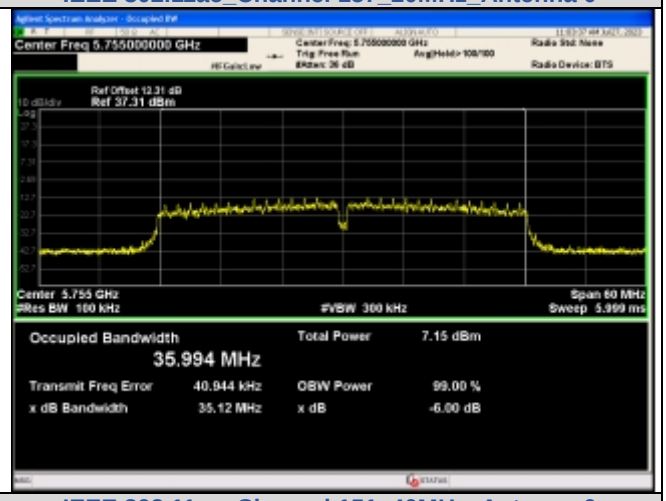
IEEE 802.11ac_Channel 149_20MHz_Antenna 0



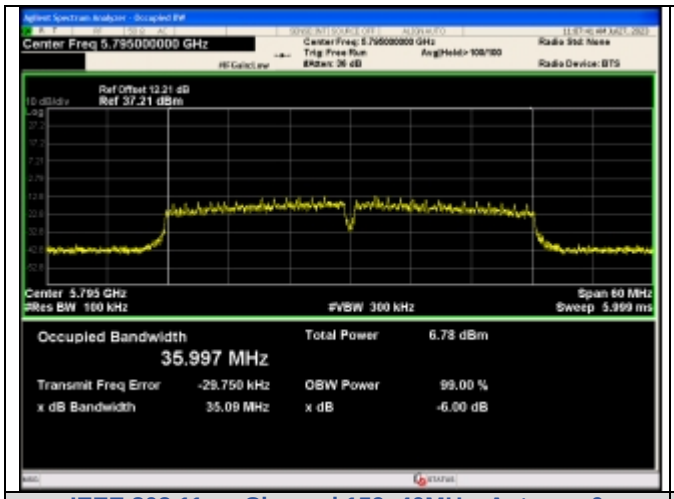
IEEE 802.11ac_Channel 157_20MHz_Antenna 0



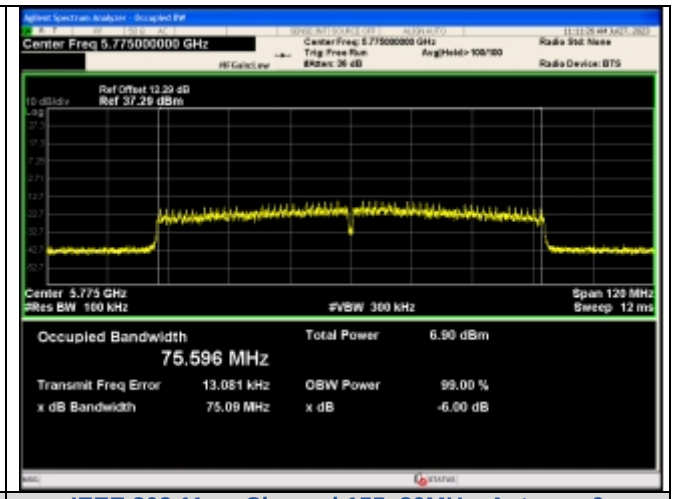
IEEE 802.11ac_Channel 165_20MHz_Antenna 0



IEEE 802.11ac_Channel 151_40MHz_Antenna 0



IEEE 802.11ac_Channel 159_40MHz_Antenna 0



IEEE 802.11ac_Channel 155_80MHz_Antenna 0

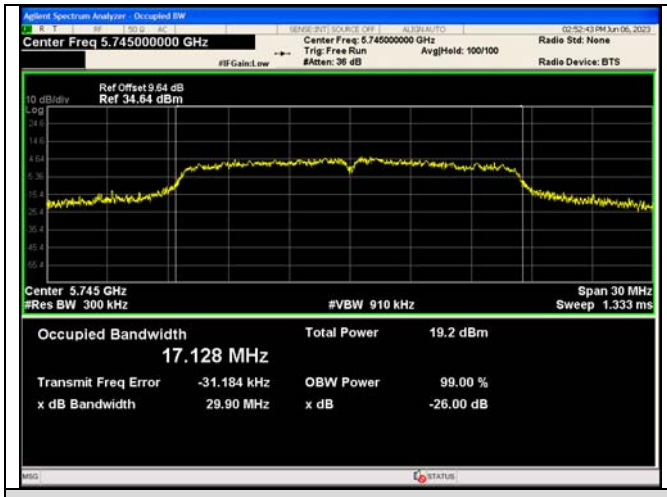
APPENDIX V.26dB Bandwidth

Antenna A:

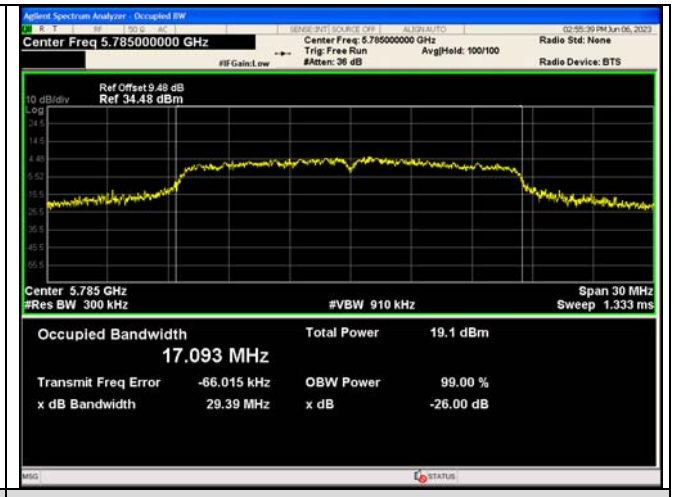
Test Result

Mode	Channel	Ant.	Center Frequency (MHz)	26 dB Bandwidth (MHz)	RBW/EBW
IEEE 802.11a	149	0	5745	29.90	1.0
	157		5785	29.39	1.02
	165		5825	20.20	1.18
IEEE 802.11n_20	149		5745	29.80	1.01
	157		5785	29.63	1.01
	165		5825	20.08	1.1
IEEE 802.11n_40	151		5755	60.00	1.03
	159		5795	39.21	1.07
IEEE 802.11ac_20	149		5745	30.00	1.0
	157		5785	29.95	1.0
	165		5825	20.14	1.11
IEEE 802.11ac_40	151		5755	60.00	1.03
	159		5795	41.17	1.05
IEEE 802.11ac_80	155		5775	81.54	1.03

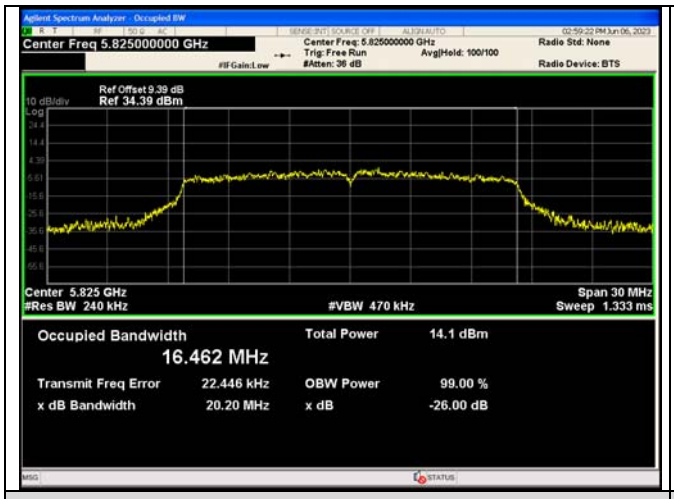
Test Graphs



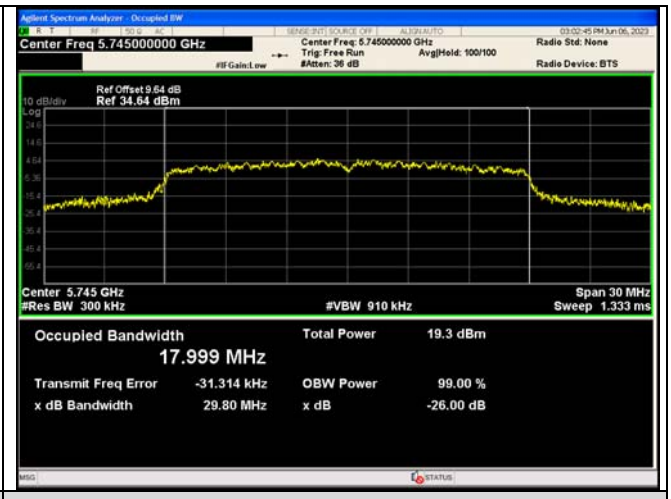
IEEE 802.11a_Channel 149_20MHz_Antenna 0



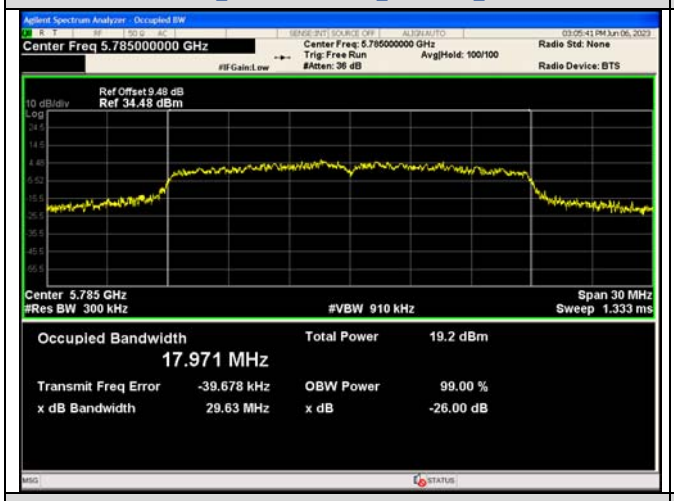
IEEE 802.11a_Channel 157_20MHz_Antenna 0



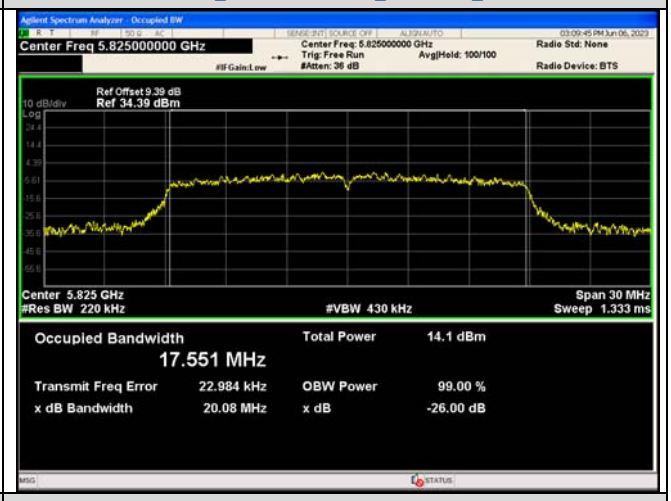
IEEE 802.11a_Channel 165_20MHz_Antenna 0



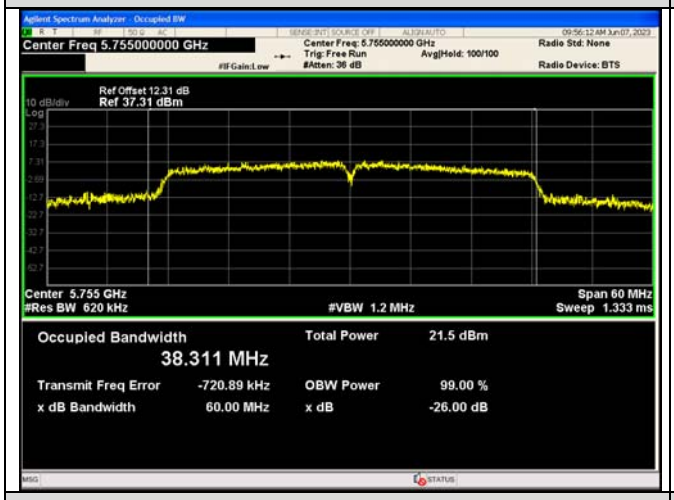
IEEE 802.11n_Channel 149_20MHz_Antenna 0



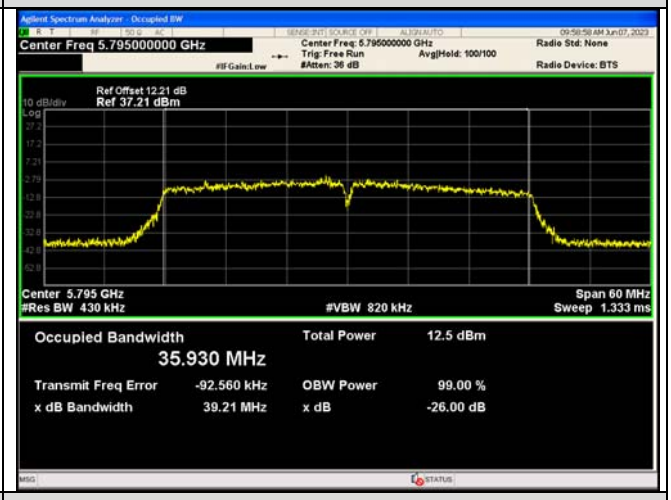
IEEE 802.11n_Channel 157_20MHz_Antenna 0



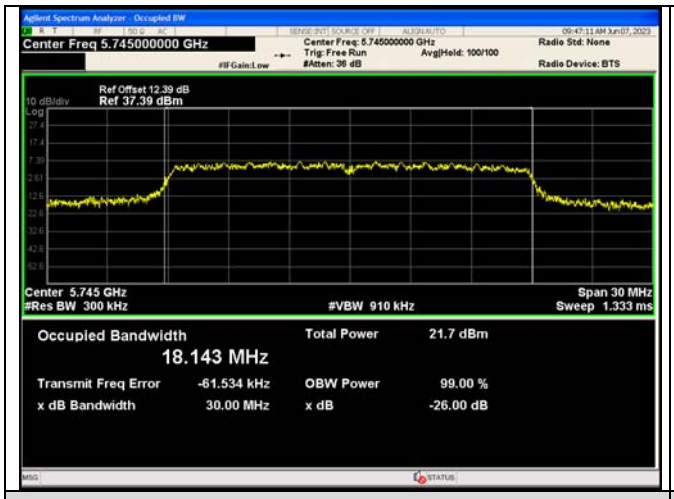
IEEE 802.11n_Channel 165_20MHz_Antenna 0



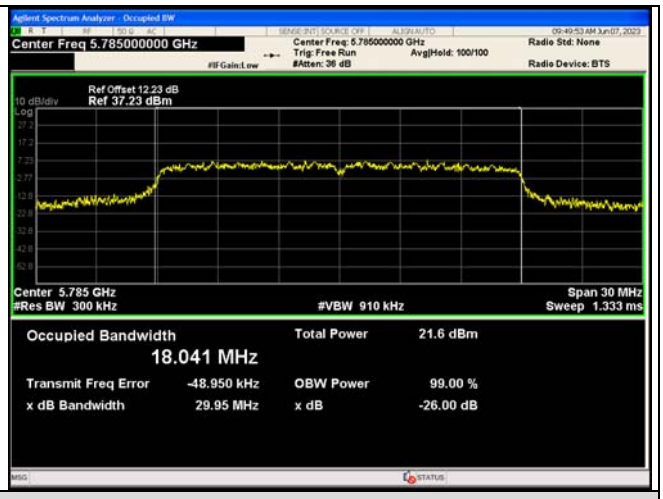
IEEE 802.11n_Channel 151_40MHz_Antenna 0



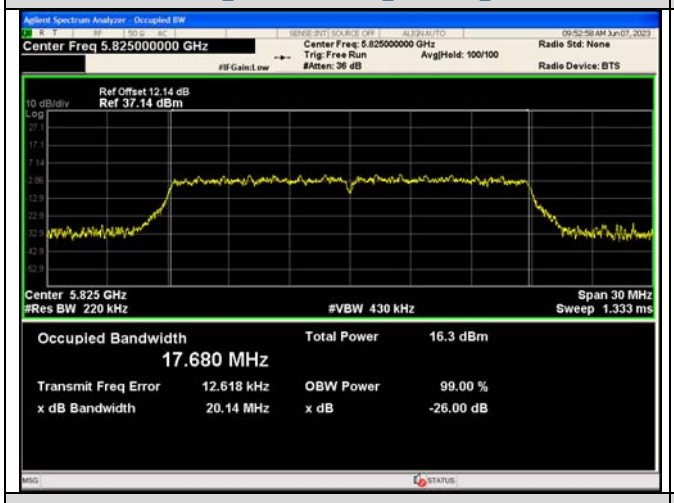
IEEE 802.11n_Channel 159_40MHz_Antenna 0



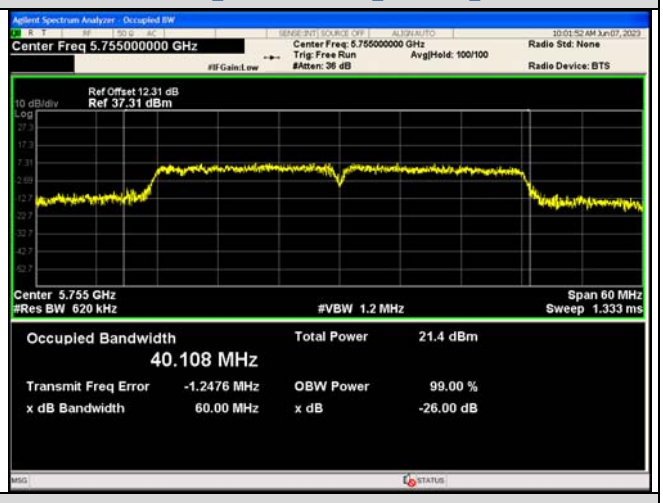
IEEE 802.11ac_Channel 149_20MHz_Antenna 0



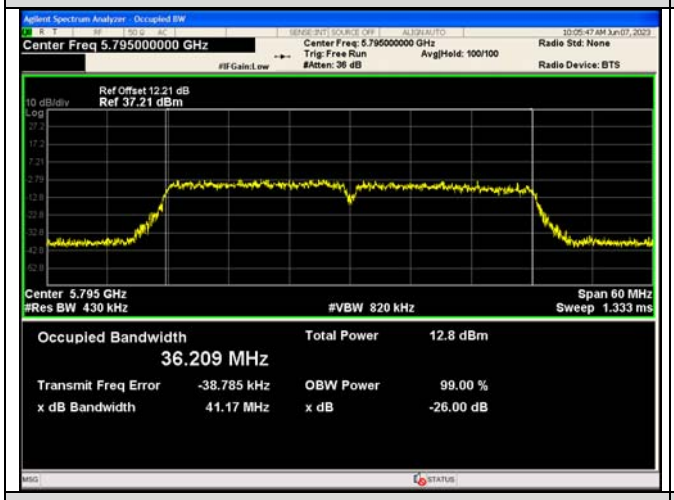
IEEE 802.11ac_Channel 157_20MHz_Antenna 0



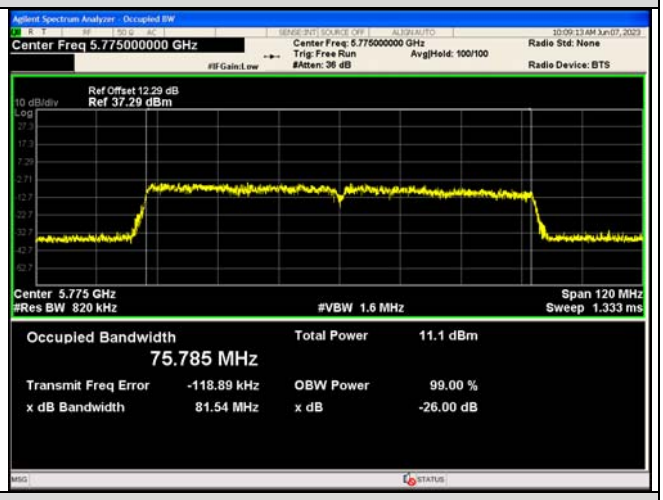
IEEE 802.11ac_Channel 165_20MHz_Antenna 0



IEEE 802.11ac_Channel 151_40MHz_Antenna 0



IEEE 802.11ac_Channel 159_40MHz_Antenna 0



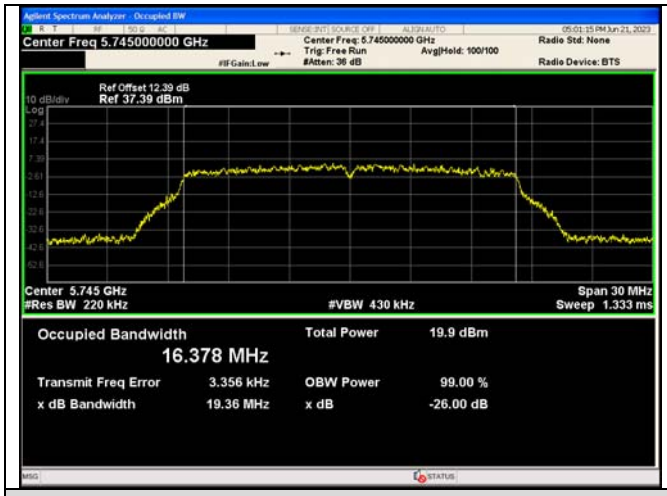
IEEE 802.11ac_Channel 155_80MHz_Antenna 0

Antenna B:

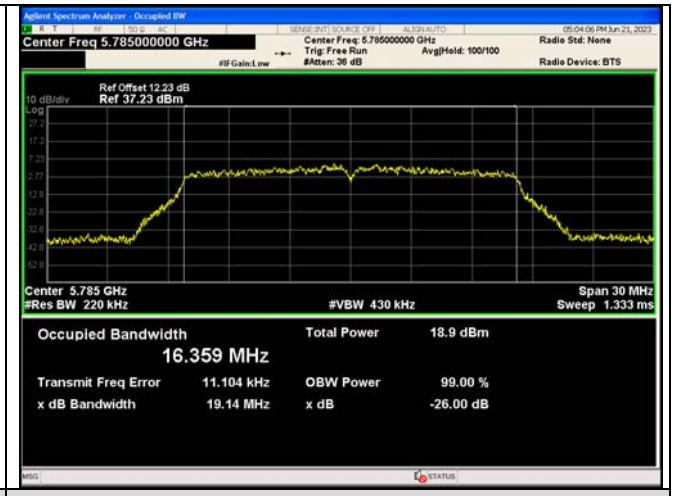
Test Result

Mode	Channel	Ant.	Center Frequency (MHz)	26 dB Bandwidth (MHz)	RBW/EBW
IEEE 802.11a	149	0	5745	19.36	1.13
	157		5785	19.14	1.13
	165		5825	19.62	1.1
IEEE 802.11n_20	149		5745	19.84	1.1
	157		5785	19.95	1.1
	165		5825	19.89	1.1
IEEE 802.11n_40	151		5755	40.02	1.05
	159		5795	39.91	1.06
IEEE 802.11ac_20	149		5745	19.79	1.12
	157		5785	19.83	1.11
	165		5825	20.02	1.09
IEEE 802.11ac_40	151		5755	39.96	1.05
	159		5795	39.60	1.07
IEEE 802.11ac_80	155		5775	80.99	1.02

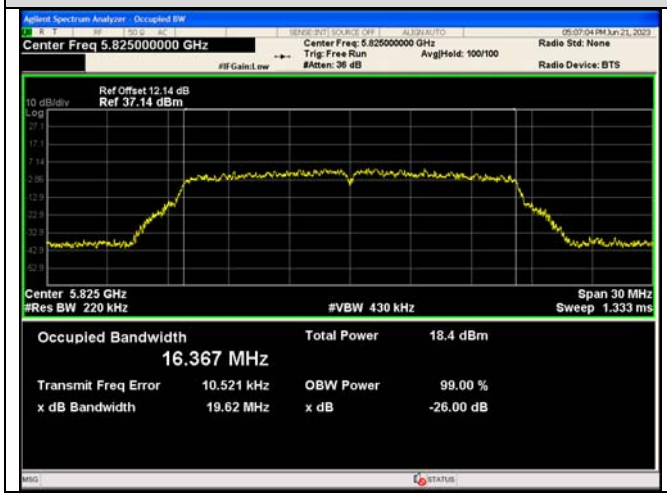
Test Graphs

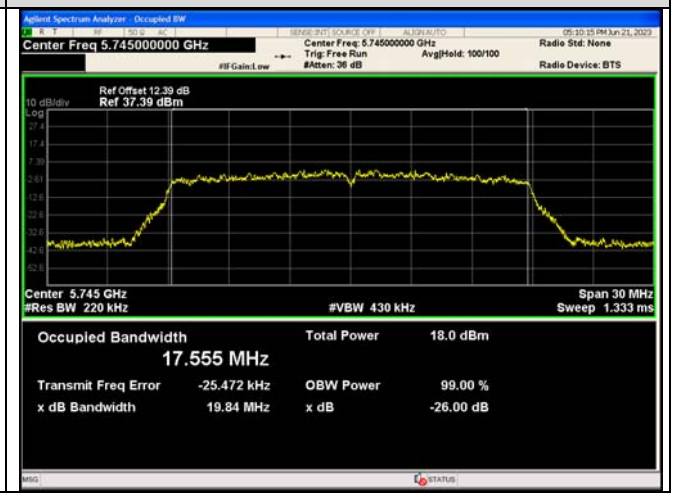


IEEE 802.11a_Channel 149_20MHz_Antenna 0

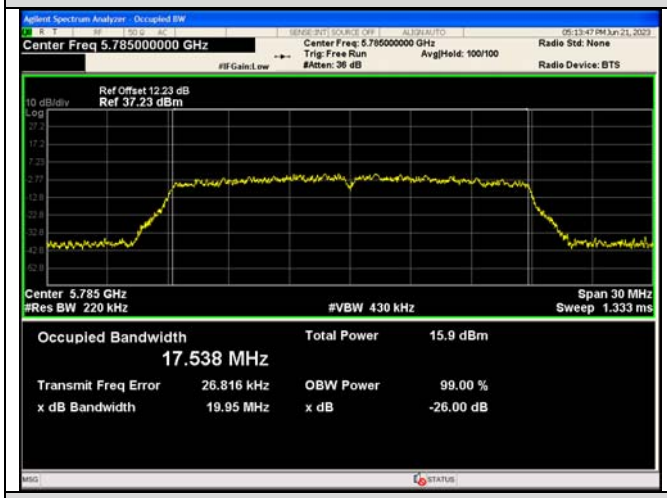


IEEE 802.11a_Channel 157_20MHz_Antenna 0

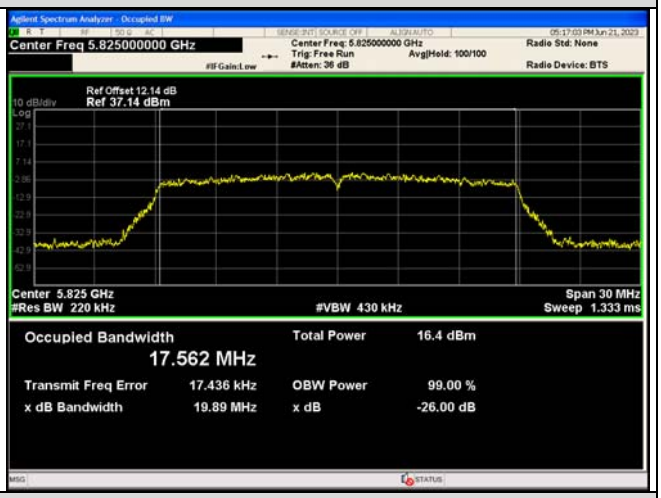




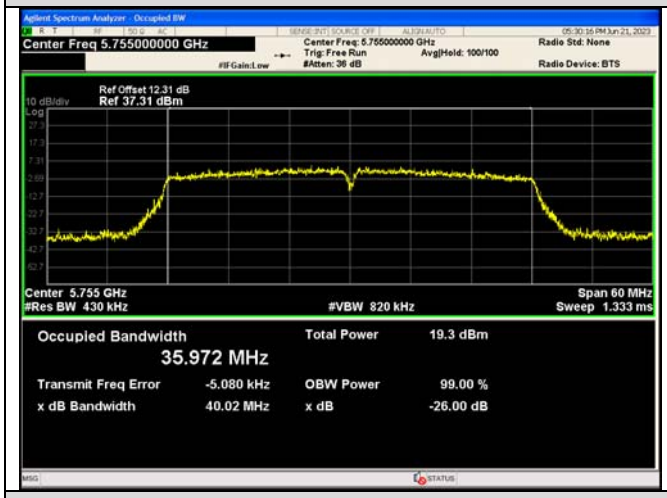
IEEE 802.11a_Channel 165_20MHz_Antenna 0



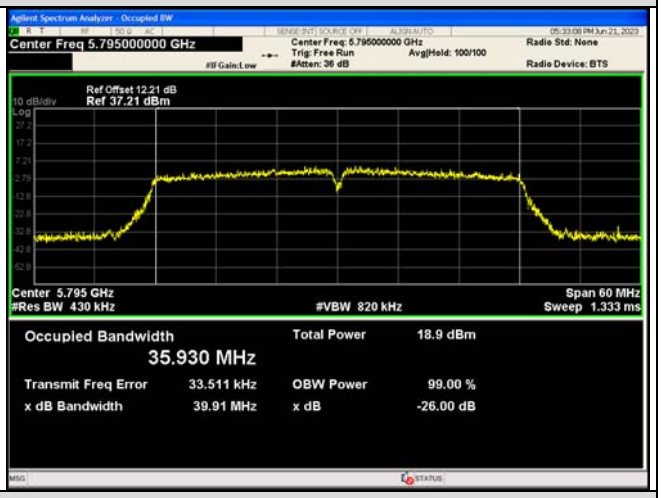
IEEE 802.11n_Channel 149_20MHz_Antenna 0



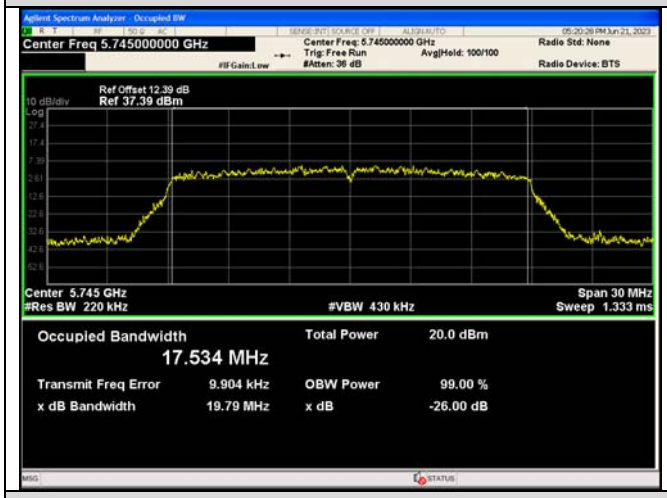
IEEE 802.11n_Channel 157_20MHz_Antenna 0



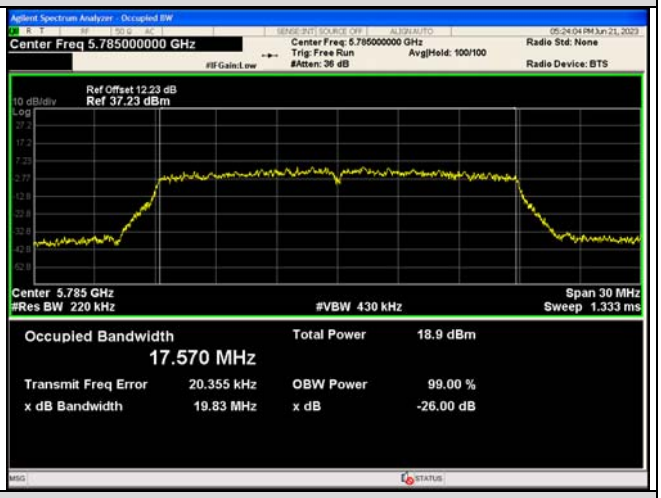
IEEE 802.11n_Channel 165_20MHz_Antenna 0



IEEE 802.11n_Channel 151_40MHz_Antenna 0

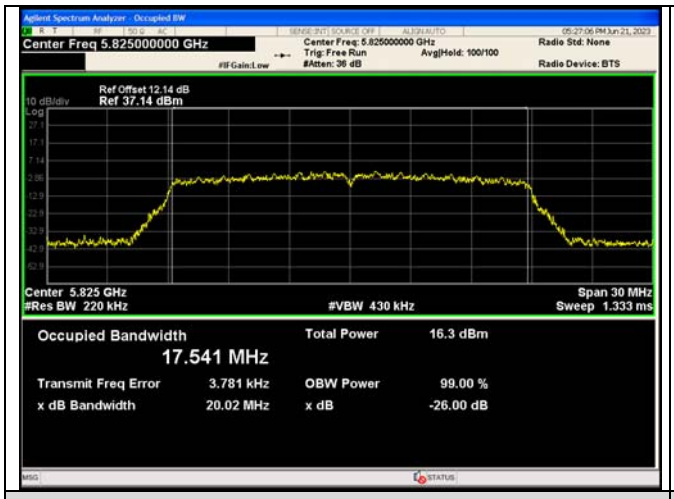


IEEE 802.11n_Channel 159_40MHz_Antenna 0

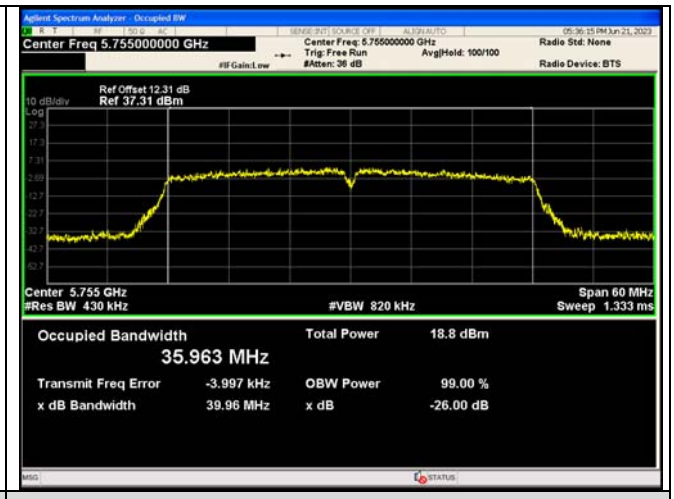


IEEE 802.11ac_Channel 149_20MHz_Antenna 0

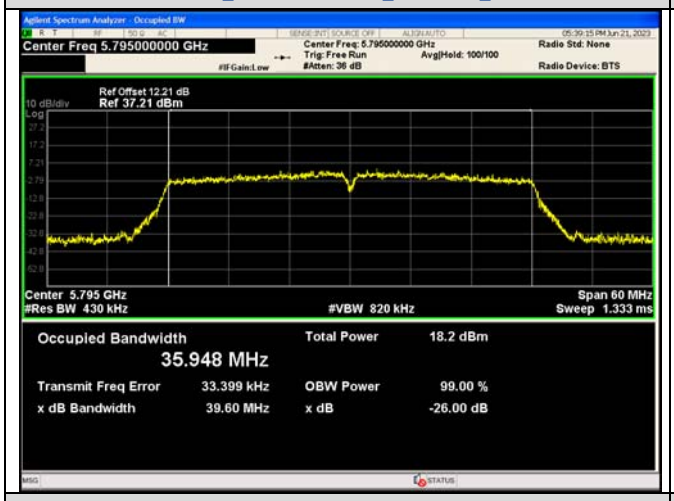
IEEE 802.11ac_Channel 157_20MHz_Antenna 0



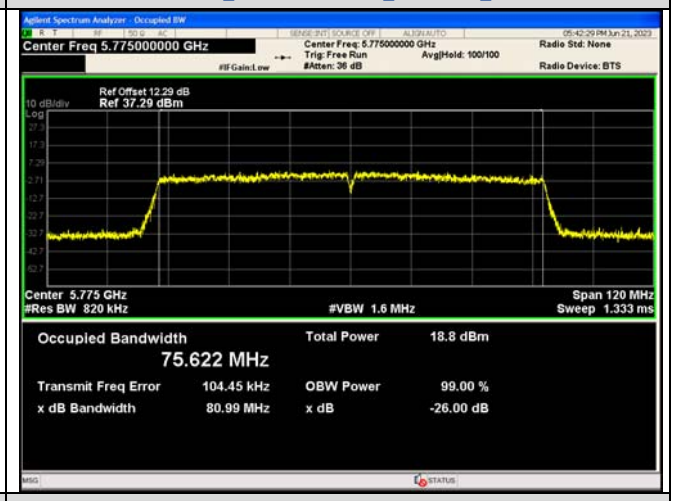
IEEE 802.11ac_Channel 165_20MHz_Antenna 0



IEEE 802.11ac_Channel 151_40MHz_Antenna 0



IEEE 802.11ac_Channel 159_40MHz_Antenna 0



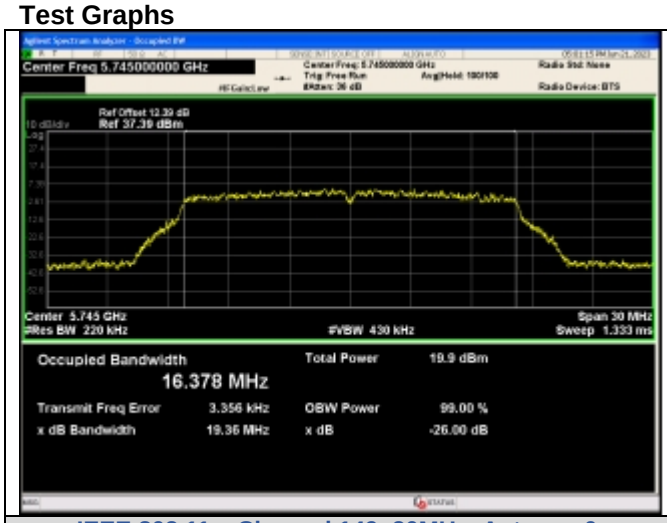
IEEE 802.11ac_Channel 155_80MHz_Antenna 0

Antenna A+ Antenna B:

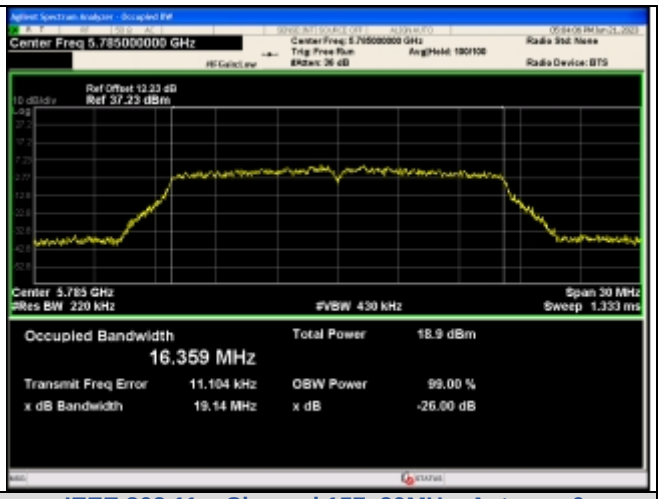
Test Result

Mode	Channel	Ant.	Center Frequency (MHz)	26 dB Bandwidth (MHz)	RBW/EBW
IEEE 802.11n_20	149	0	5745	20.04	1.11
	157		5785	20.23	1.1
	165		5825	20.39	1.16
IEEE 802.11n_40	151		5755	55.49	1.08
	159		5795	51.51	0.99
IEEE 802.11ac_20	149		5745	20.09	1.13
	157		5785	20.20	1.1
	165		5825	20.40	1.09
IEEE 802.11ac_40	151		5755	49.64	1.03
	159		5795	52.71	1.05
IEEE 802.11ac_80	155		5775	120.00	1.02

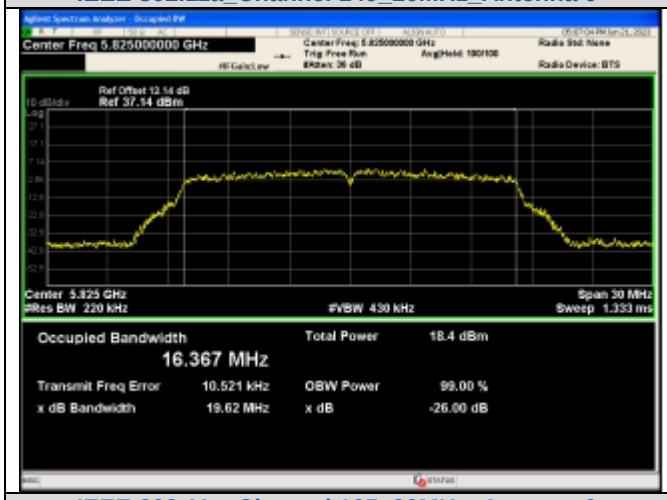
Test Graphs



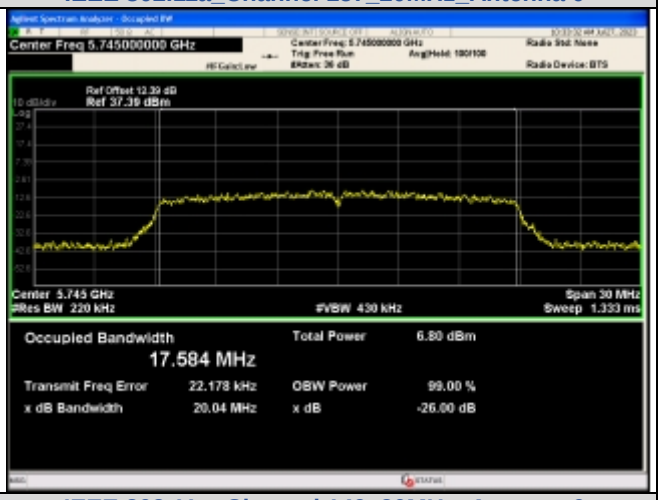
IEEE 802.11a_Channel 149_20MHz_Antenna 0



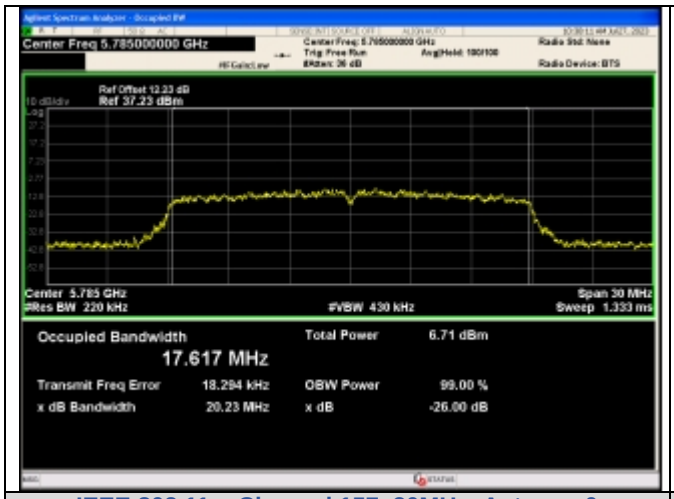
IEEE 802.11a_Channel 157_20MHz_Antenna 0



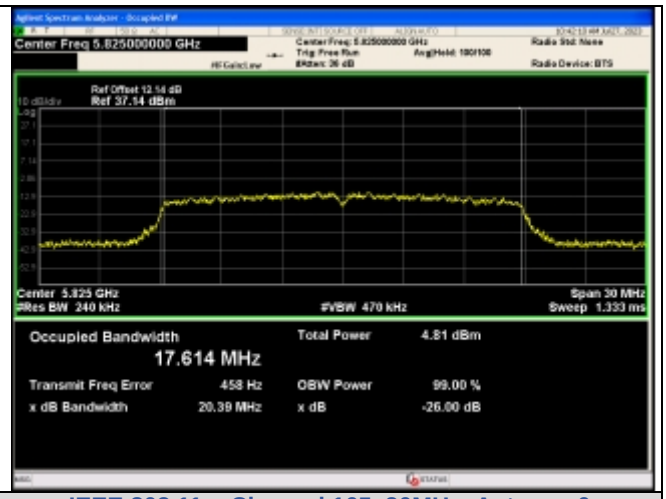
IEEE 802.11a_Channel 165_20MHz_Antenna 0



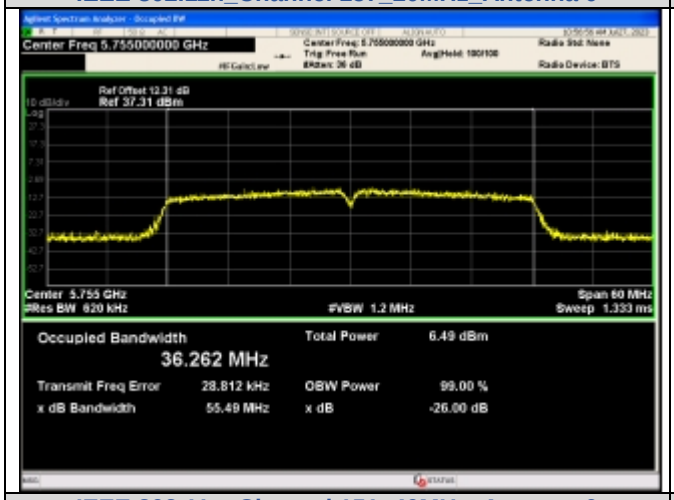
IEEE 802.11n_Channel 149_20MHz_Antenna 0



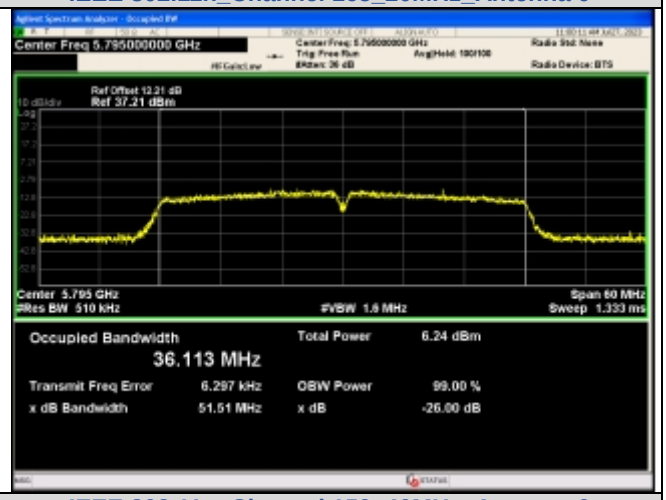
IEEE 802.11n_Channel 157_20MHz_Antenna 0



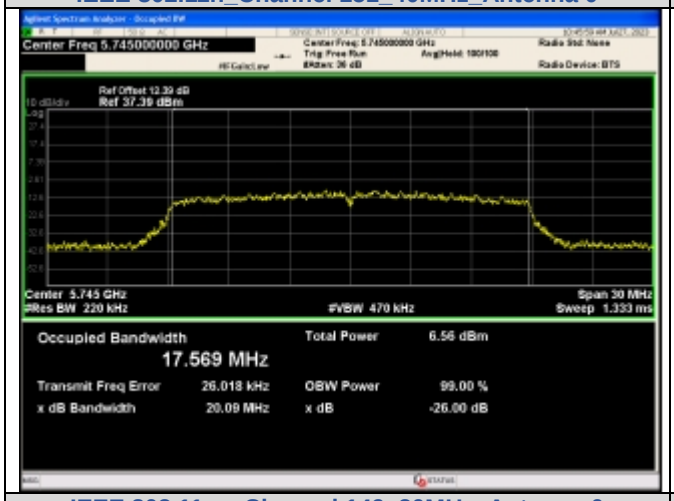
IEEE 802.11n_Channel 165_20MHz_Antenna 0



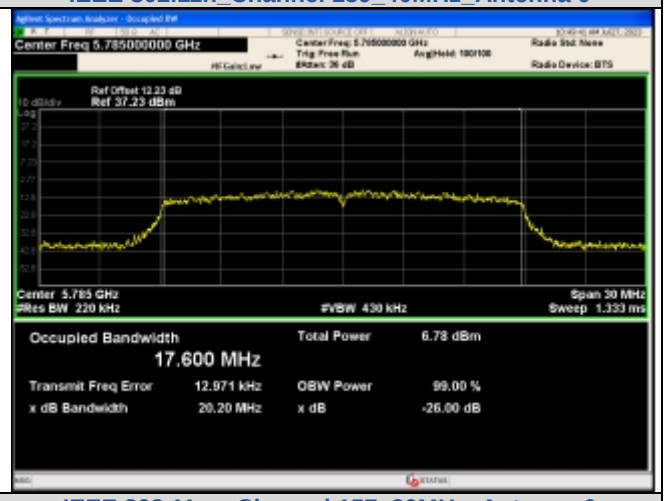
IEEE 802.11n_Channel 151_40MHz_Antenna 0



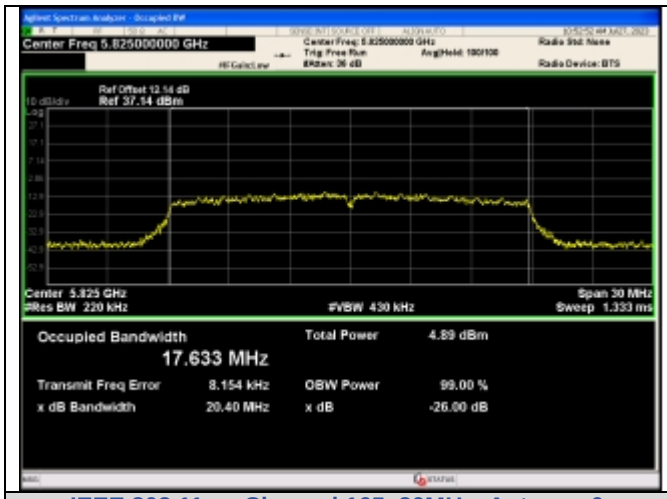
IEEE 802.11n_Channel 159_40MHz_Antenna 0



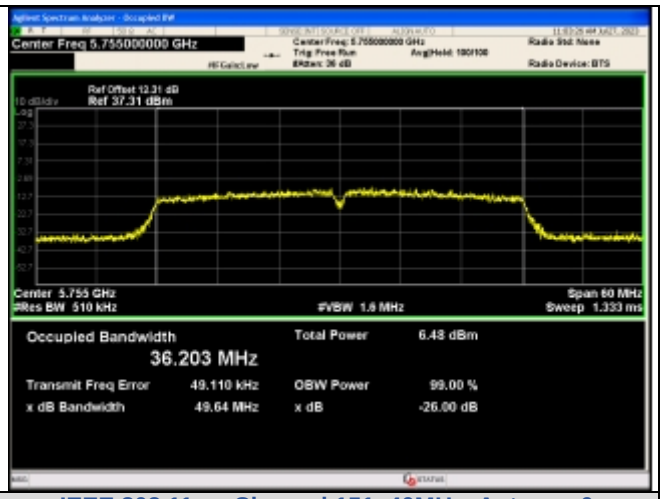
IEEE 802.11ac_Channel 149_20MHz_Antenna 0



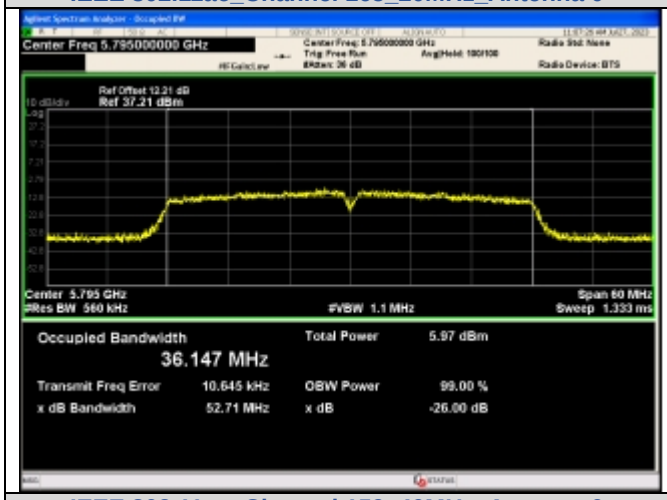
IEEE 802.11ac_Channel 157_20MHz_Antenna 0



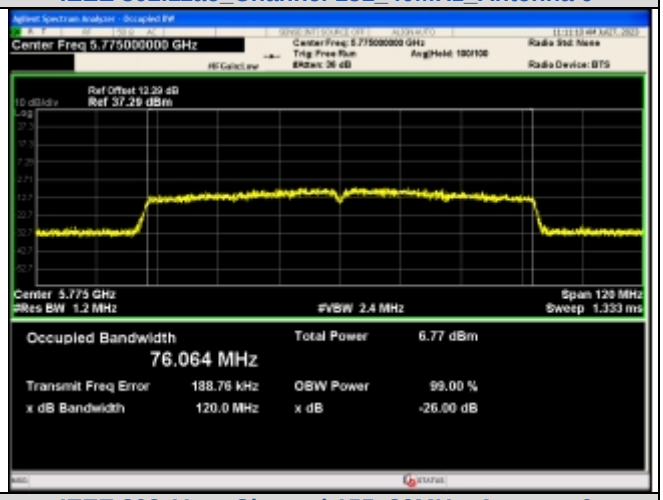
IEEE 802.11ac_Channel 165_20MHz_Antenna 0



IEEE 802.11ac_Channel 151_40MHz_Antenna 0



IEEE 802.11ac_Channel 159_40MHz_Antenna 0



IEEE 802.11ac_Channel 155_80MHz_Antenna 0

APPENDIX VI.Conducted Out Of Band Emission

Antenna A:

Test Result

Mode	Channel	Ant.	OOB Emission Frequency (MHz)	OOB Emission Level (dBm)	Limit (dBm)	Over Limit (dB)	Result
IEEE 802.11a	149	0	4596.93	-33.037	-27	-6.040	PASS
			5647.25	-51.398	-27	-24.398	PASS
			5725.00	-22.810	27	-49.810	PASS
			5850.00	-58.808	27	-85.810	PASS
			5973.12	-58.405	-27	-31.405	PASS
			6895.46	-39.244	-27	-12.240	PASS
	157		4628.12	-30.210	-27	-3.210	PASS
			5647.25	-53.492	-27	-26.492	PASS
			5725.00	-42.464	27	-69.460	PASS
			5850.00	-53.918	27	-80.920	PASS
			5948.00	-56.865	-27	-29.865	PASS
			6941.72	-37.510	-27	-10.510	PASS
	165		4660.86	-37.946	-27	-10.950	PASS
			5644.25	-53.888	-27	-26.888	PASS
			5725.00	-53.477	27	-80.480	PASS
			5850.00	-34.269	27	-61.270	PASS
			5973.50	-58.006	-27	-31.006	PASS
			24943.3	-39.319	-27	-12.320	PASS
IEEE 802.11n_20	149		4596.50	-42.059	-27	-15.060	PASS
			5646.88	-49.857	-27	-22.857	PASS
			5725.00	-15.688	27	-42.690	PASS
			5850.00	-56.521	27	-83.520	PASS
			5942.38	-59.293	-27	-32.293	PASS
			24939.4	-39.666	-27	-12.670	PASS
	157		4628.68	-44.057	-27	-17.060	PASS
			5648.75	-53.042	-27	-26.042	PASS
			5725.00	-43.049	27	-70.050	PASS
			5850.00	-52.950	27	-79.950	PASS
			5952.12	-54.931	-27	-27.931	PASS
			24987.1	-39.504	-27	-12.500	PASS
	165		4665.07	-39.315	-27	-12.310	PASS
			5621.00	-53.754	-27	-26.754	PASS
			5725.00	-53.019	27	-80.020	PASS

			5850.00	-36.638	27	-63.640	PASS
			5928.88	-57.204	-27	-30.204	PASS
			24951.8	-38.985	-27	-11.980	PASS
IEEE 802.11n_40	151		5644.62	-40.142	-27	-13.142	PASS
			5645.08	-32.668	-27	-5.670	PASS
			5725.00	-14.777	27	-41.780	PASS
			5850.00	-45.782	27	-72.780	PASS
			5944.25	-54.440	-27	-27.440	PASS
			24997.6	-36.542	-27	-9.540	PASS
	159		5636.65	-43.193	-27	-16.190	PASS
			5646.88	-50.557	-27	-23.557	PASS
			5725.00	-51.271	27	-78.270	PASS
			5850.00	-52.222	27	-79.220	PASS
			5924.00	-53.675	-26.26	-27.415	PASS
			24939.4	-36.943	-27	-9.940	PASS
IEEE 802.11ac_20	149		4596.36	-38.746	-27	-11.750	PASS
			5650.62	-47.033	-26.5375	-20.495	PASS
			5725.00	-12.137	27	-39.140	PASS
			5850.00	-54.979	27	-81.980	PASS
			5939.38	-54.158	-27	-27.158	PASS
			24913.2	-37.460	-27	-10.460	PASS
	157		4628.40	-40.423	-27	-13.420	PASS
			5629.25	-49.414	-27	-22.414	PASS
			5725.00	-40.460	27	-67.460	PASS
			5850.00	-47.432	27	-74.430	PASS
			5936.75	-55.700	-27	-28.700	PASS
			24544.6	-36.753	-27	-9.750	PASS
	165		4657.06	-41.509	-27	-14.510	PASS
			5615.00	-51.157	-27	-24.157	PASS
			5725.00	-51.000	27	-78.000	PASS
			5850.00	-34.638	27	-61.640	PASS
			5940.12	-52.229	-27	-25.229	PASS
			24938.0	-37.392	-27	-10.390	PASS
IEEE 802.11ac_40	151		5643.82	-31.775	-27	-4.770	PASS
			5644.62	-37.259	-27	-10.259	PASS
			5725.00	-10.194	27	-37.190	PASS
			5850.00	-42.606	27	-69.610	PASS
			5933.75	-53.315	-27	-26.315	PASS
			24973.3	-36.350	-27	-9.350	PASS
	159		5645.08	-41.430	-27	-14.430	PASS
			5646.50	-51.152	-27	-24.152	PASS
			5725.00	-50.326	27	-77.330	PASS
			5850.00	-52.274	27	-79.270	PASS
			5923.62	-53.162	-25.9825	-27.180	PASS
			24874.1	-37.070	-27	-10.070	PASS
IEEE	155		5611.78	-46.919	-27	-19.920	PASS