

Appendix E

RF Test Data for 5.8G WLAN (Conducted Measurement)

Product Name: Android TV BOX

Trade Mark: N/A

Test Model: KM9

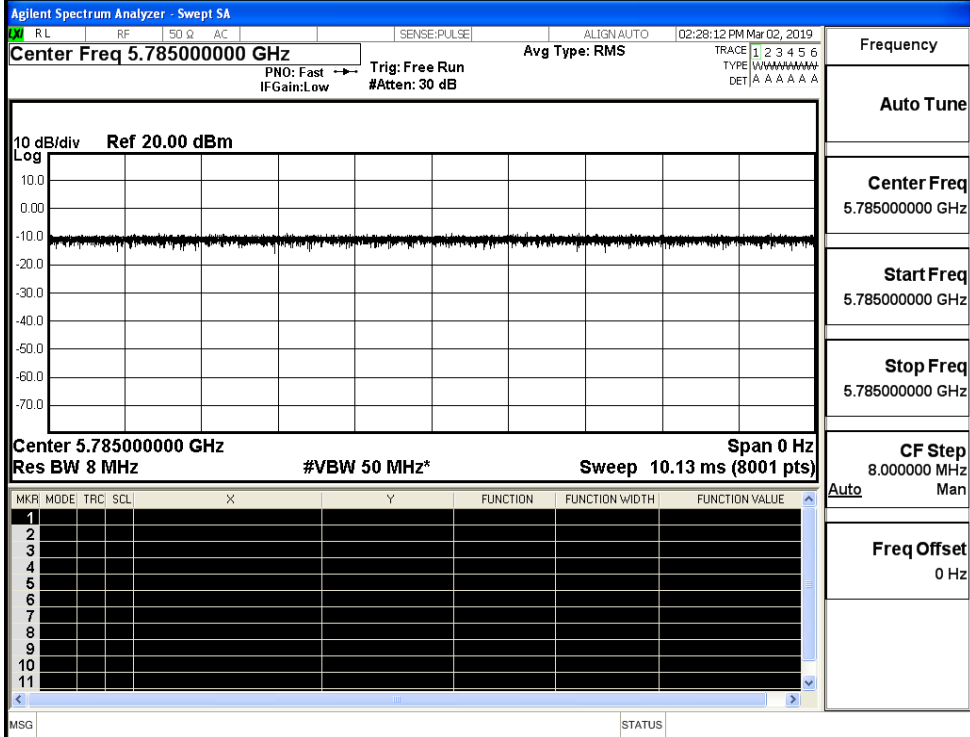
Environmental Conditions

Temperature:	23.2 ° C
Relative Humidity:	53.8%
ATM Pressure:	100.0 kPa
Test Engineer:	Wang Chuang
Supervised by:	Jayden.Zhuo

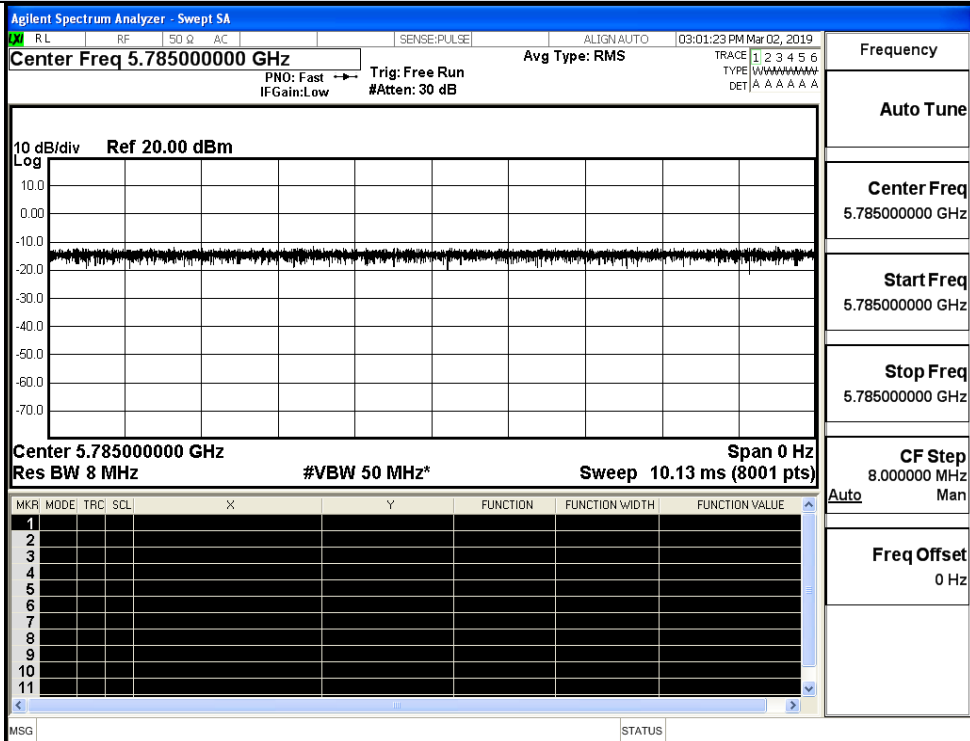
E.1 Duty Cycle

Test Mode	Test Frequency (MHz)	Duty Cycle (%)	10log(1/x) Factor (dB)	1/B Minimum VBW (KHz)
11A	5785	100	0.00	0.01
11N20 SISO	5785	100	0.00	0.01
11N40 SISO	5755	100	0.00	0.01
11AC20 SISO	5785	100	0.00	0.01
11AC40 SISO	5755	100	0.00	0.01
11AC80 SISO	5775	100	0.00	0.01

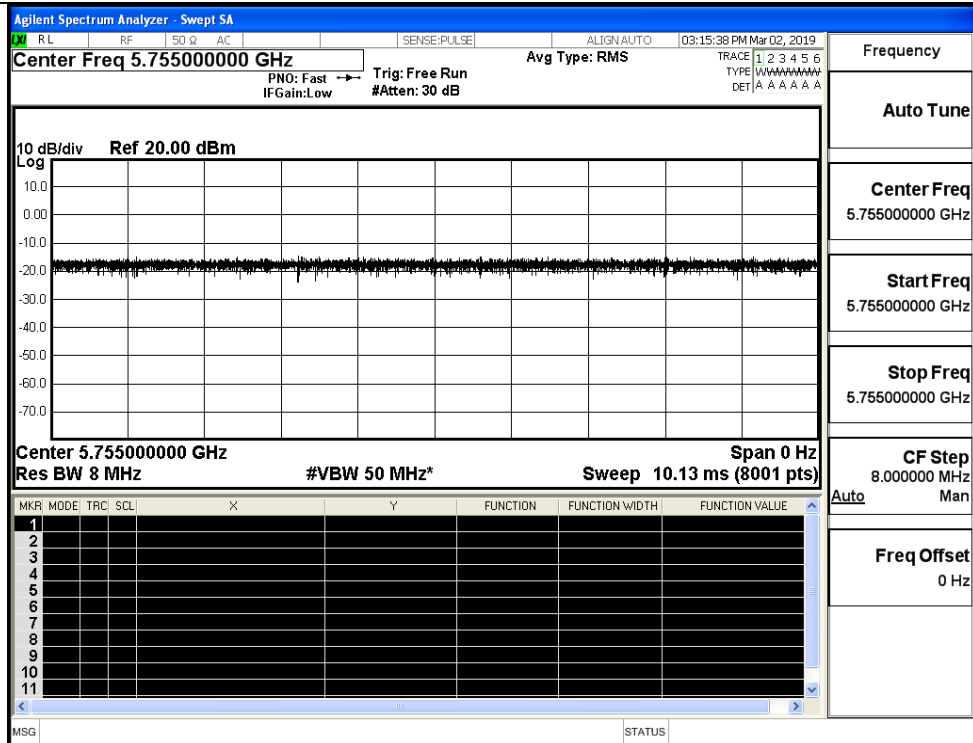
On Time and Duty Cycle



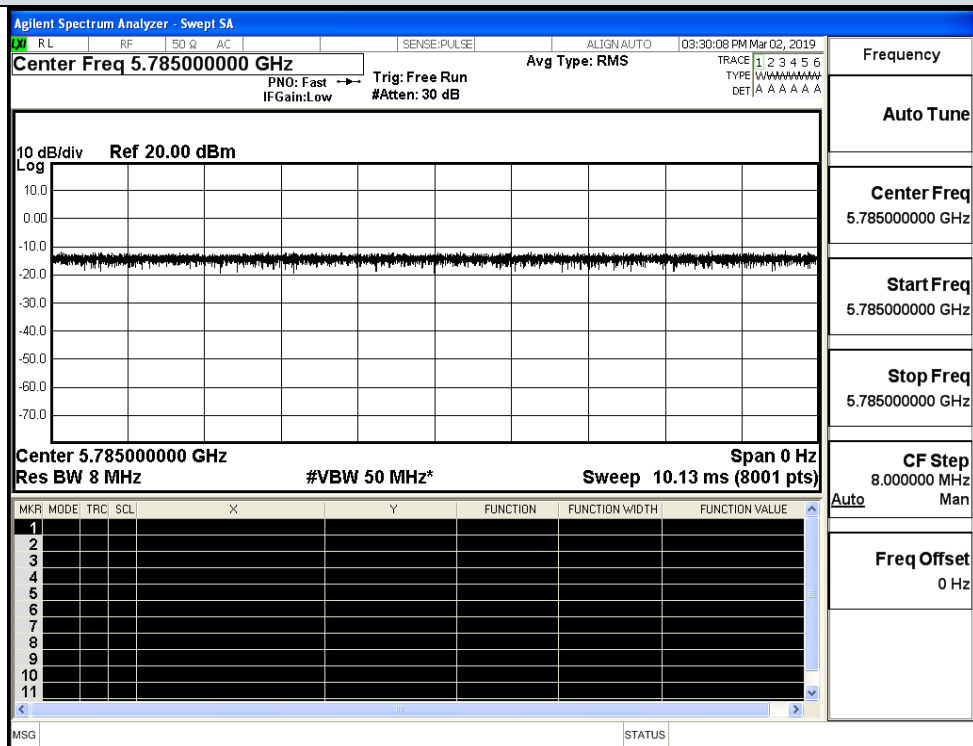
IEEE 802.11a



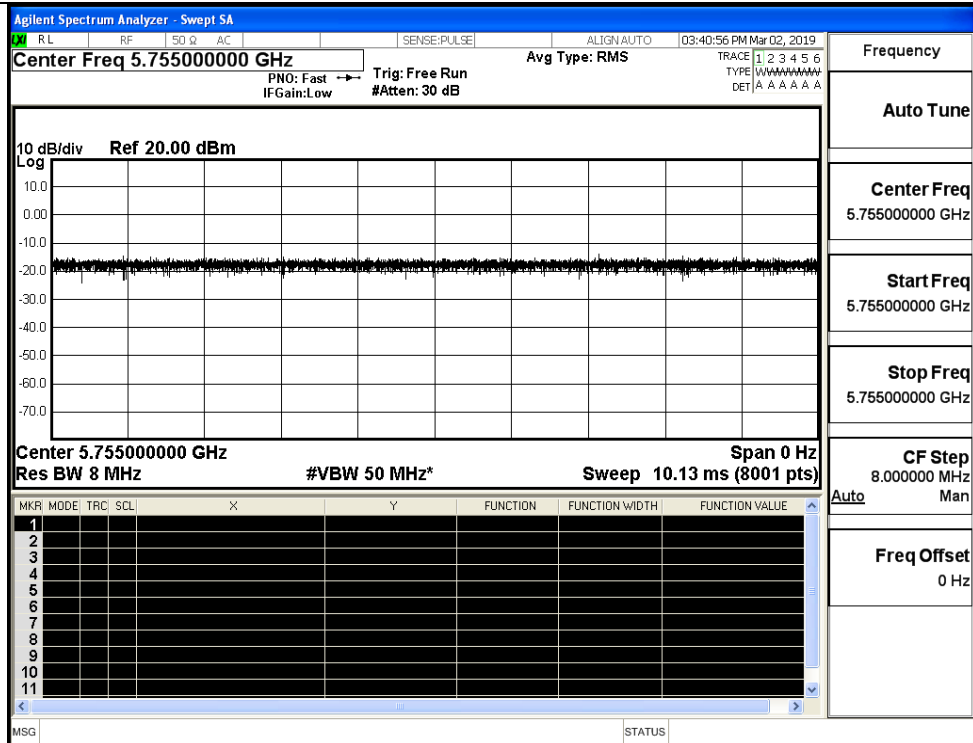
IEEE 802.11n HT20



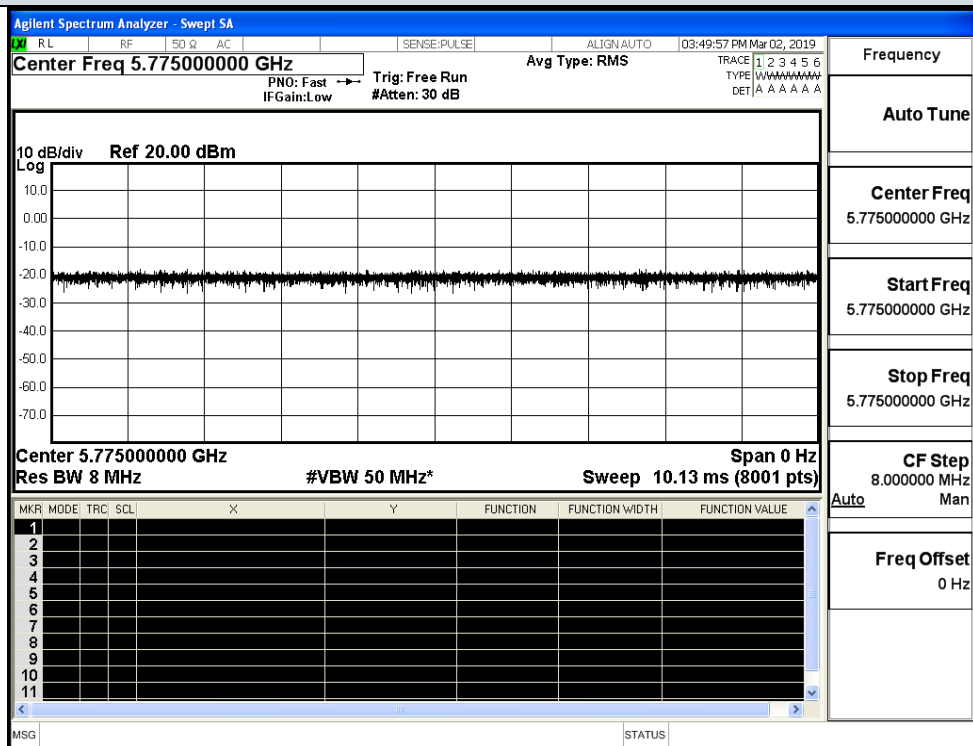
IEEE 802.11n HT40



IEEE 802.11ac VHT20



IEEE 802.11ac VHT40



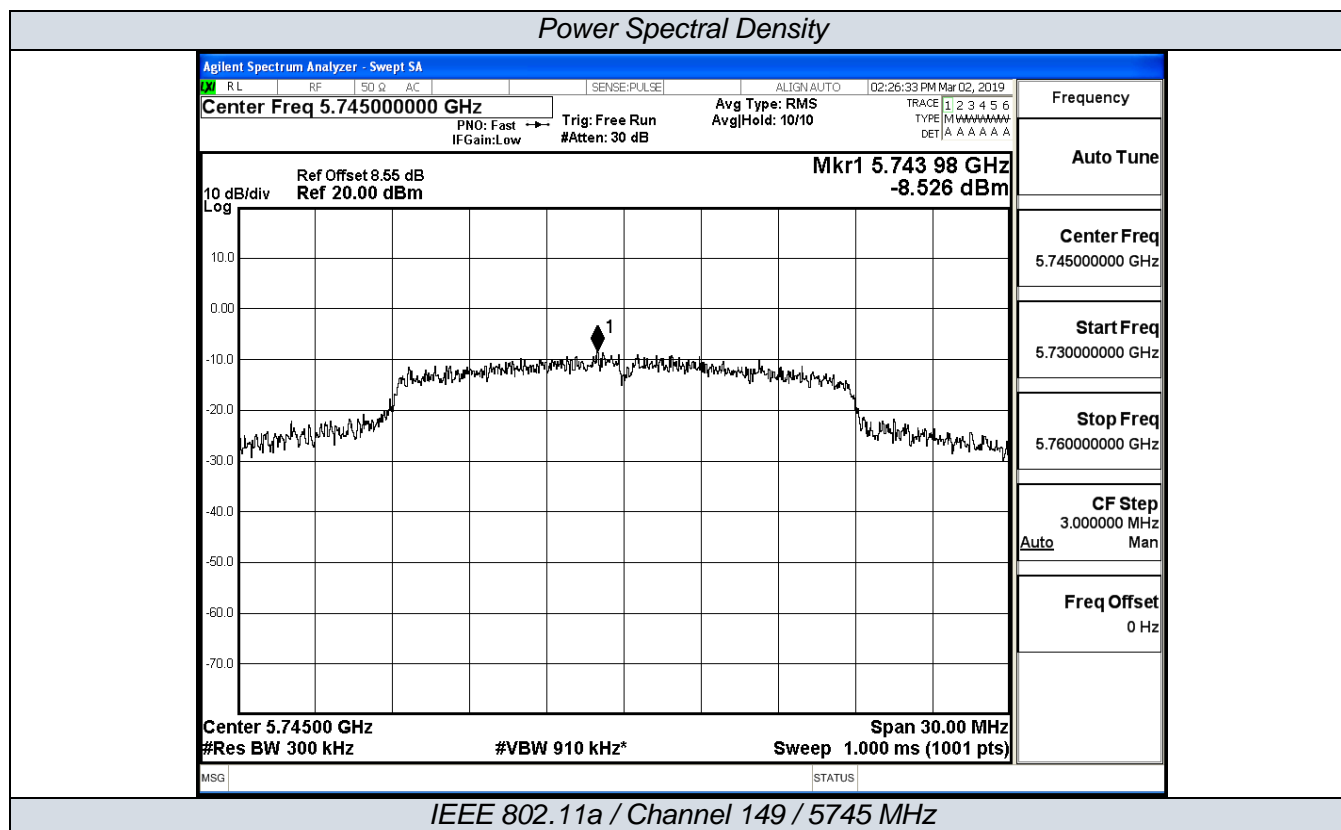
IEEE 802.11ac VHT80

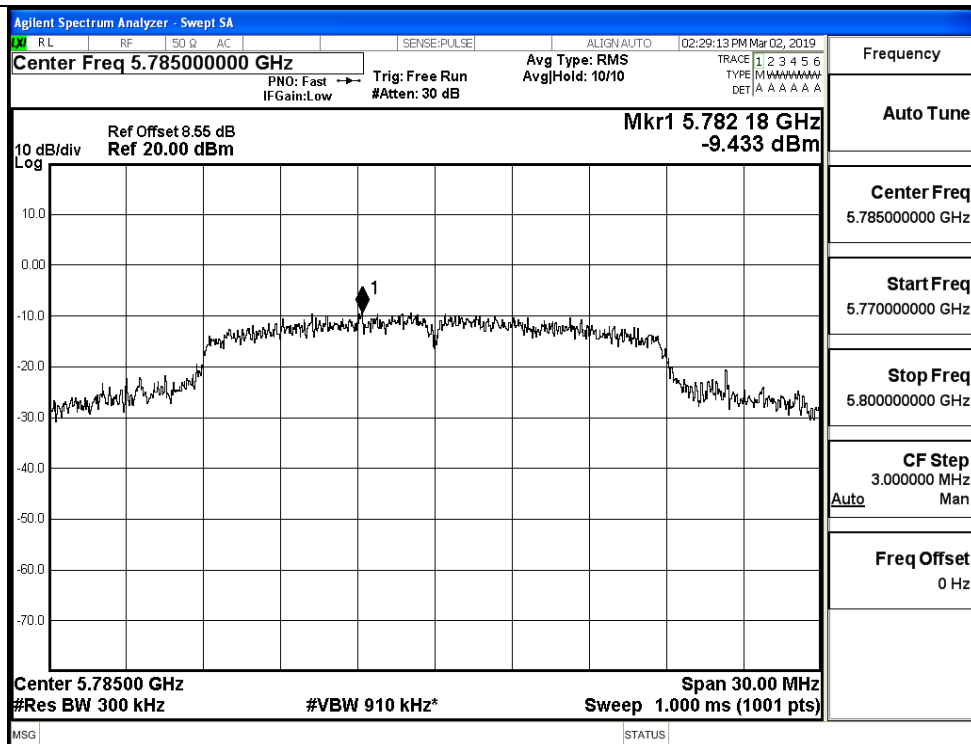
E.2 Maximum Conduct Output Power

Test Mode	Channel	Frequency (MHz)	AVG Conducted Power (dBm)	Duty Cycle Factor (dB)	Report Conducted Power (dBm)	Limit (dBm)
IEEE 802.11a	149	5745	11.18	0	11.18	30
	157	5785	11.05	0	11.05	
	165	5825	11.56	0	11.56	
IEEE 802.11n HT20	149	5745	11.17	0	11.17	30
	157	5785	11.27	0	11.27	
	165	5825	11.07	0	11.07	
IEEE 802.11n HT40	151	5755	10.41	0	10.41	30
	159	5795	10.18	0	10.18	
IEEE 802.11ac VHT20	149	5745	11.17	0	11.17	30
	157	5785	11.68	0	11.68	
	165	5825	11.69	0	11.69	
IEEE 802.11ac VHT40	151	5755	10.73	0	10.73	30
	159	5795	10.32	0	10.32	
IEEE 802.11ac VHT80	155	5775	9.78	0	9.78	30

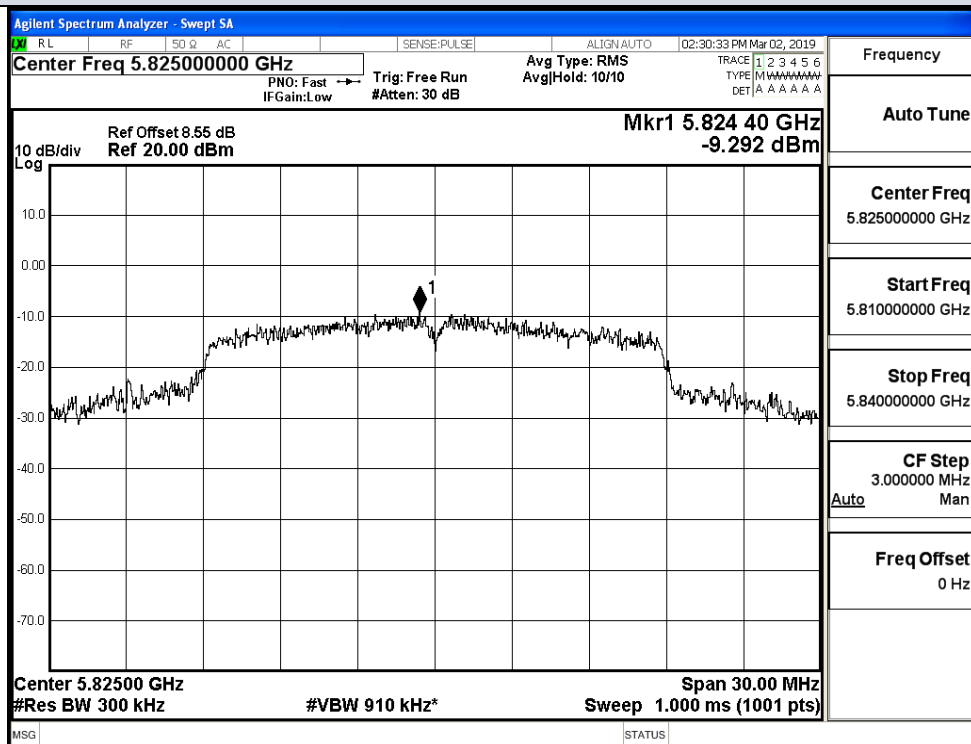
E.3 Power Spectral Density

Test Mode	Channel	Frequency (MHz)	Power Density (dBm/300KHz)	Duty Cycle Factor (dB)	RBW Factor (dB)	Report Power Density (dBm/500KHz)	Limit (dBm/500KHz)
IEEE 802.11a	149	5745	-8.526	0	2.218	-6.308	30
	157	5785	-9.433	0	2.218	-7.215	
	165	5825	-9.292	0	2.218	-7.074	
IEEE 802.11n HT20	149	5745	-12.939	0	2.218	-10.721	30
	157	5785	-12.496	0	2.218	-10.278	
	165	5825	-13.519	0	2.218	-11.301	
IEEE 802.11n HT40	151	5755	-15.249	0	2.218	-13.031	30
	159	5795	-15.266	0	2.218	-13.048	
IEEE 802.11ac VHT20	149	5745	-12.291	0	2.218	-10.073	30
	157	5785	-12.347	0	2.218	-10.129	
	165	5825	-12.747	0	2.218	-10.529	
IEEE 802.11ac VHT40	151	5755	-15.100	0	2.218	-12.882	30
	159	5795	-15.272	0	2.218	-13.054	
IEEE 802.11ac VHT80	155	5775	-18.814	0	2.218	-16.596	30



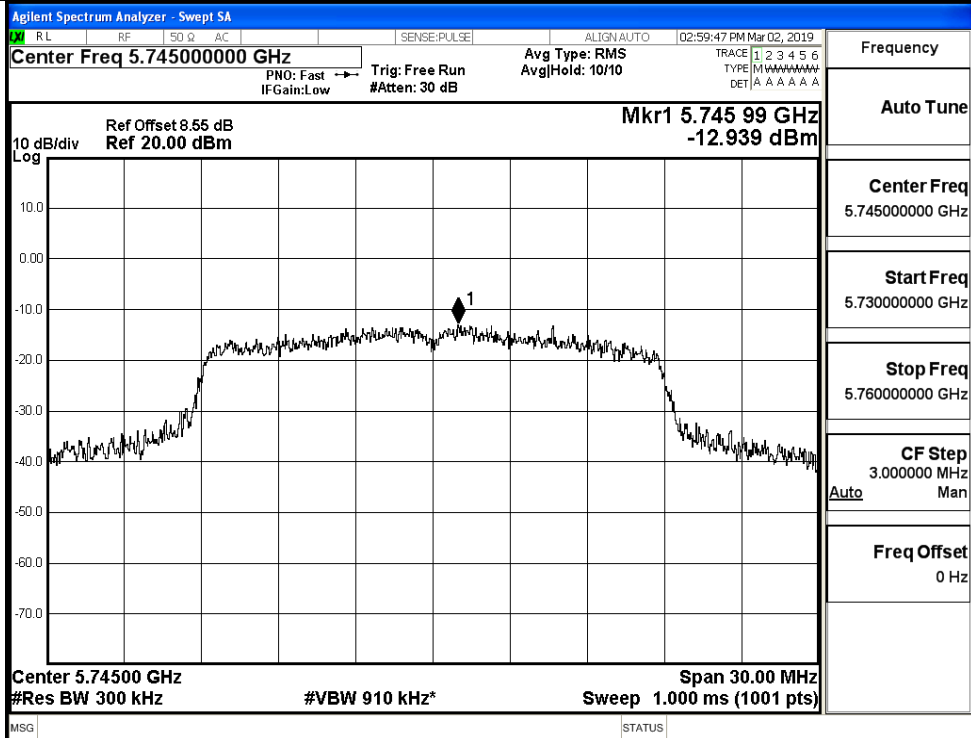


IEEE 802.11a / Channel 157 / 5785 MHz

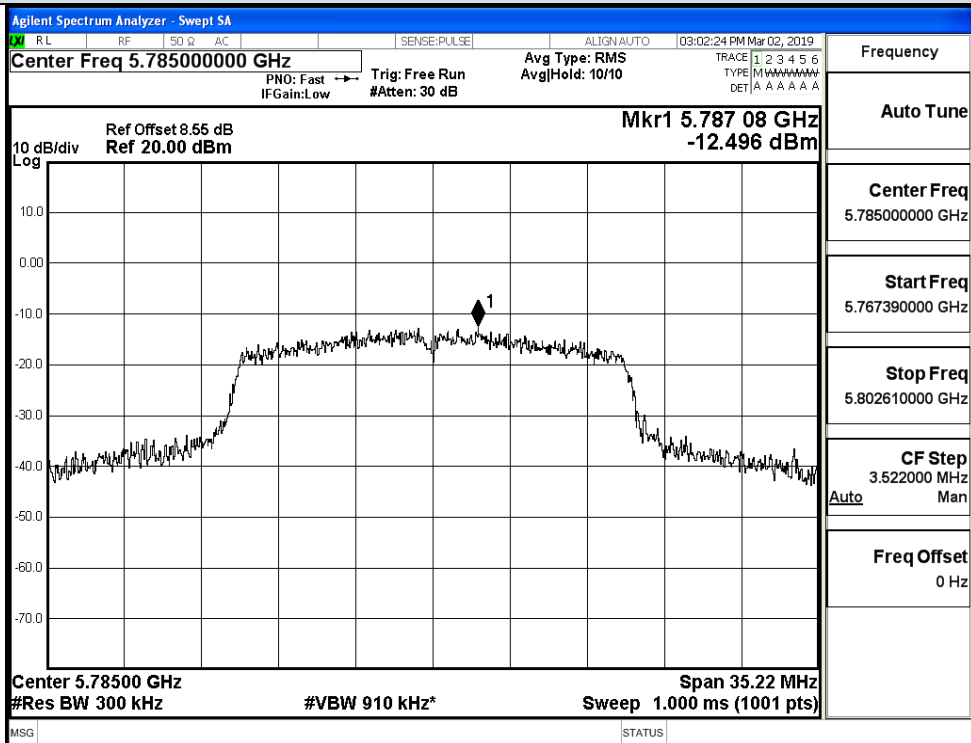


IEEE 802.11a / Channel 165 / 5825 MHz

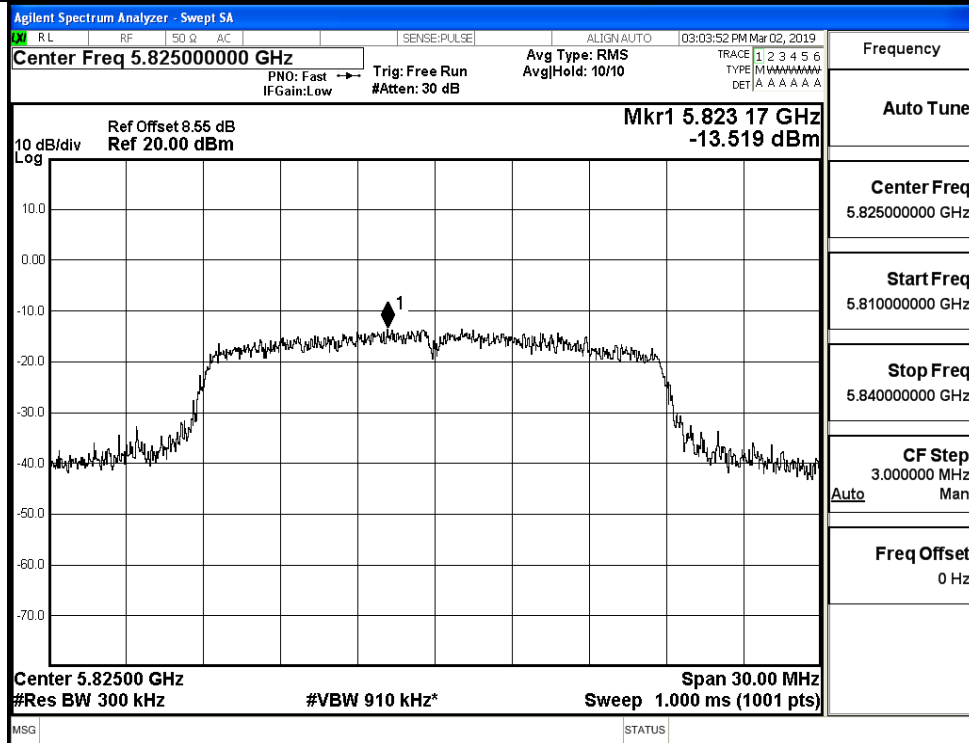
Power Spectral Density



IEEE 802.11n HT20 / Channel 149 / 5745 MHz

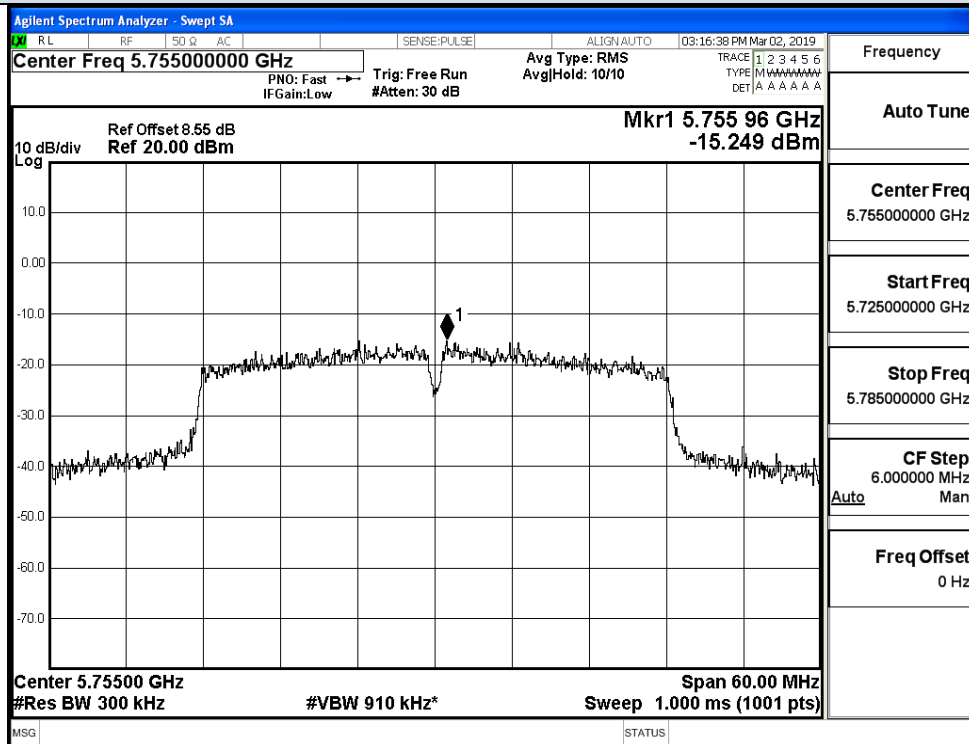


IEEE 802.11n HT20 / Channel 157 / 5785 MHz

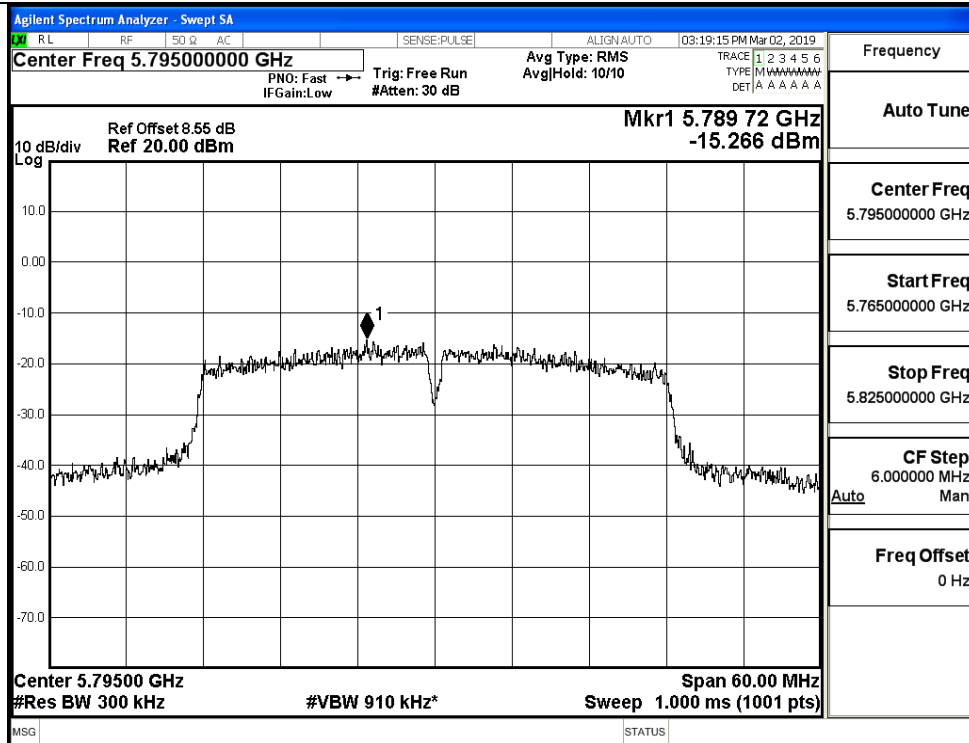


IEEE 802.11n HT20 / Channel 165 / 5825 MHz

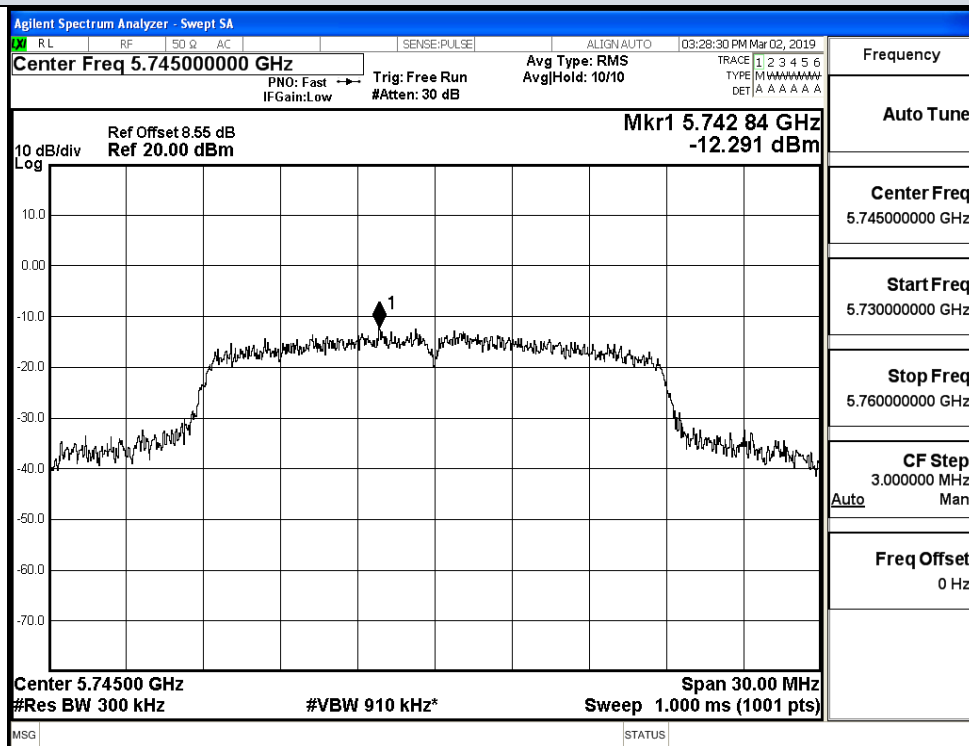
Power Spectral Density



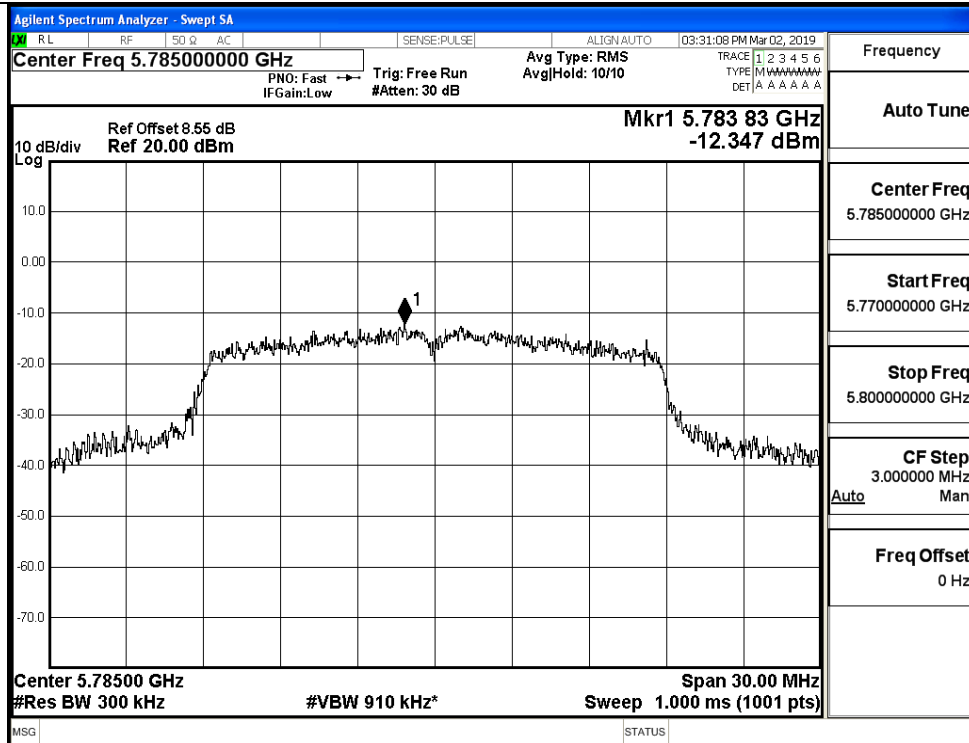
IEEE 802.11n HT40 / Channel 151 / 5755 MHz



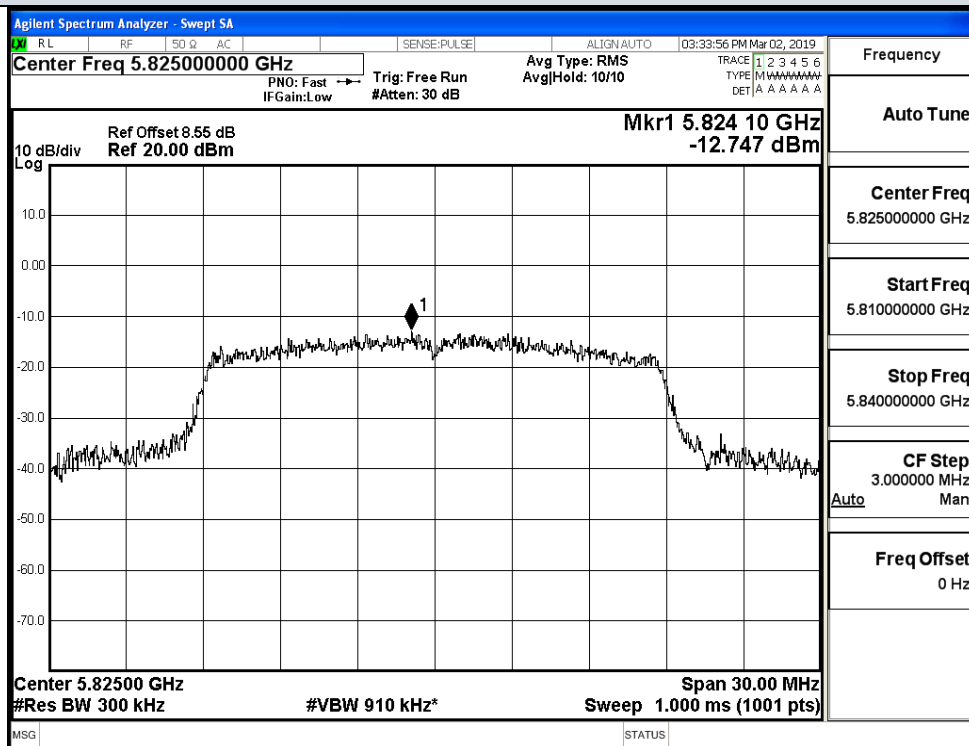
IEEE 802.11n HT40 / Channel 159 / 5795 MHz



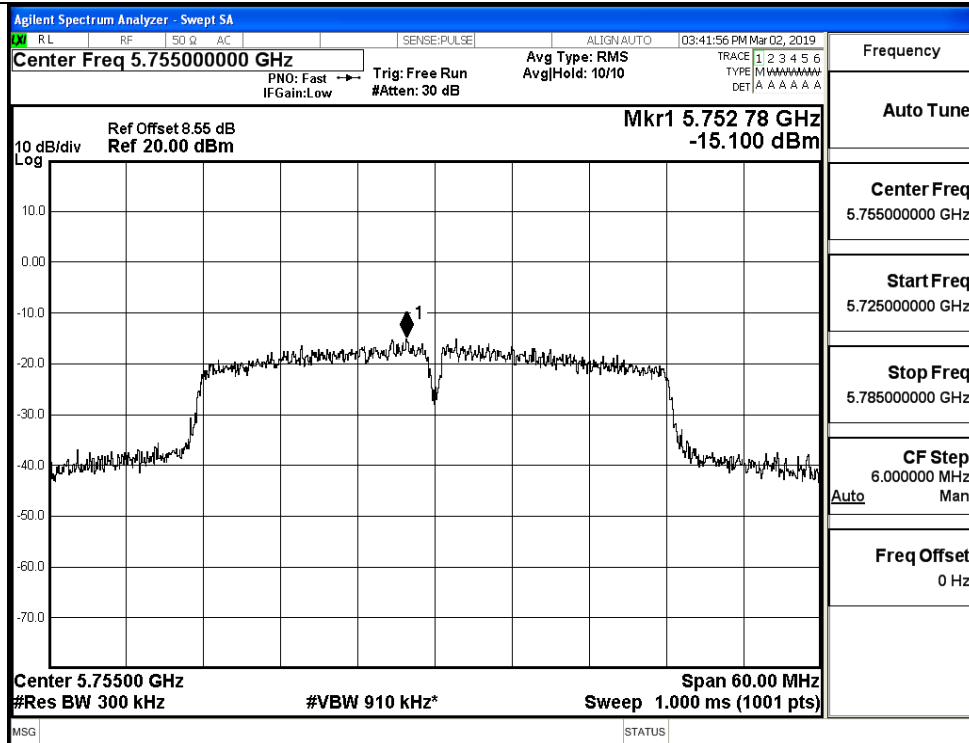
IEEE 802.11ac VHT20 / Channel 149 / 5745 MHz



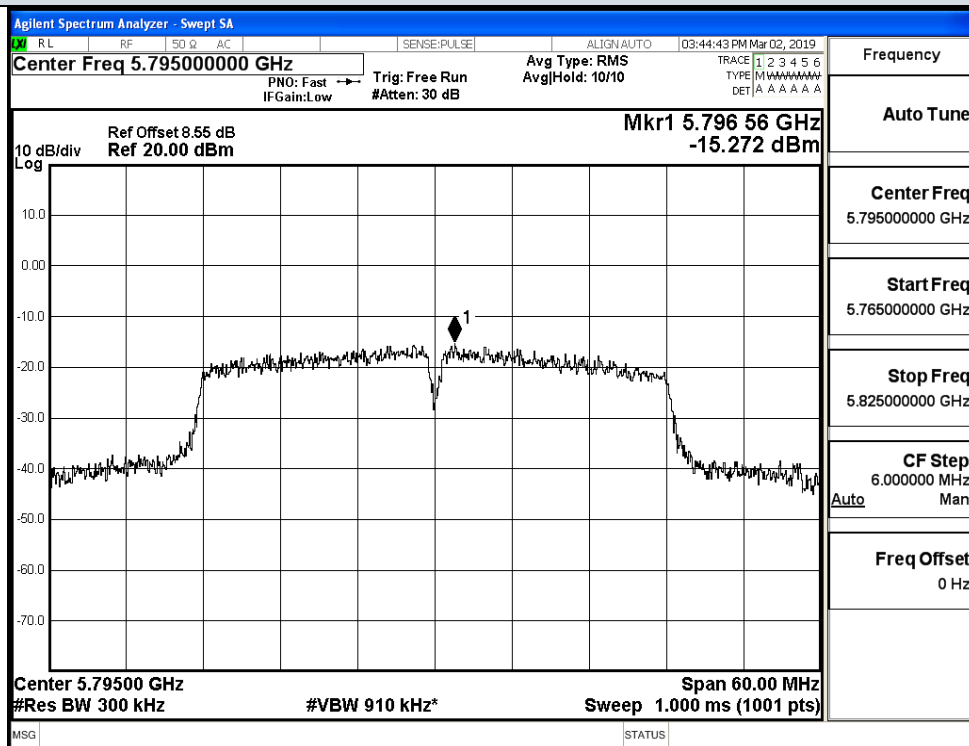
IEEE 802.11ac VHT20 / Channel 157 / 5785 MHz



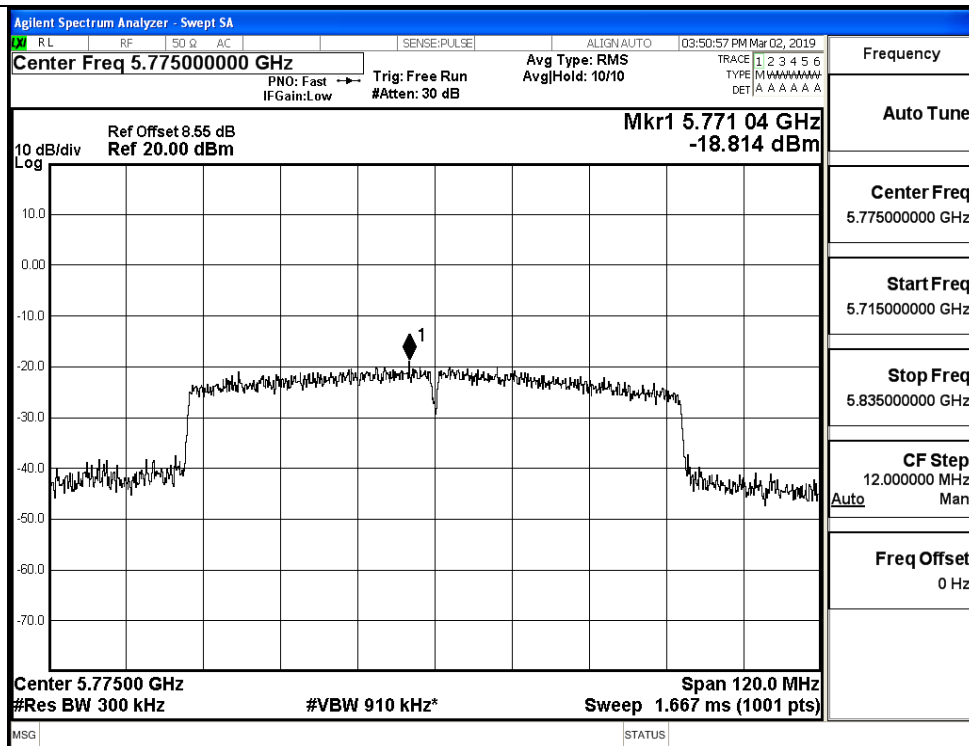
IEEE 802.11ac VHT20 / Channel 165 / 5825 MHz



IEEE 802.11ac VHT40 / Channel 151 / 5755 MHz



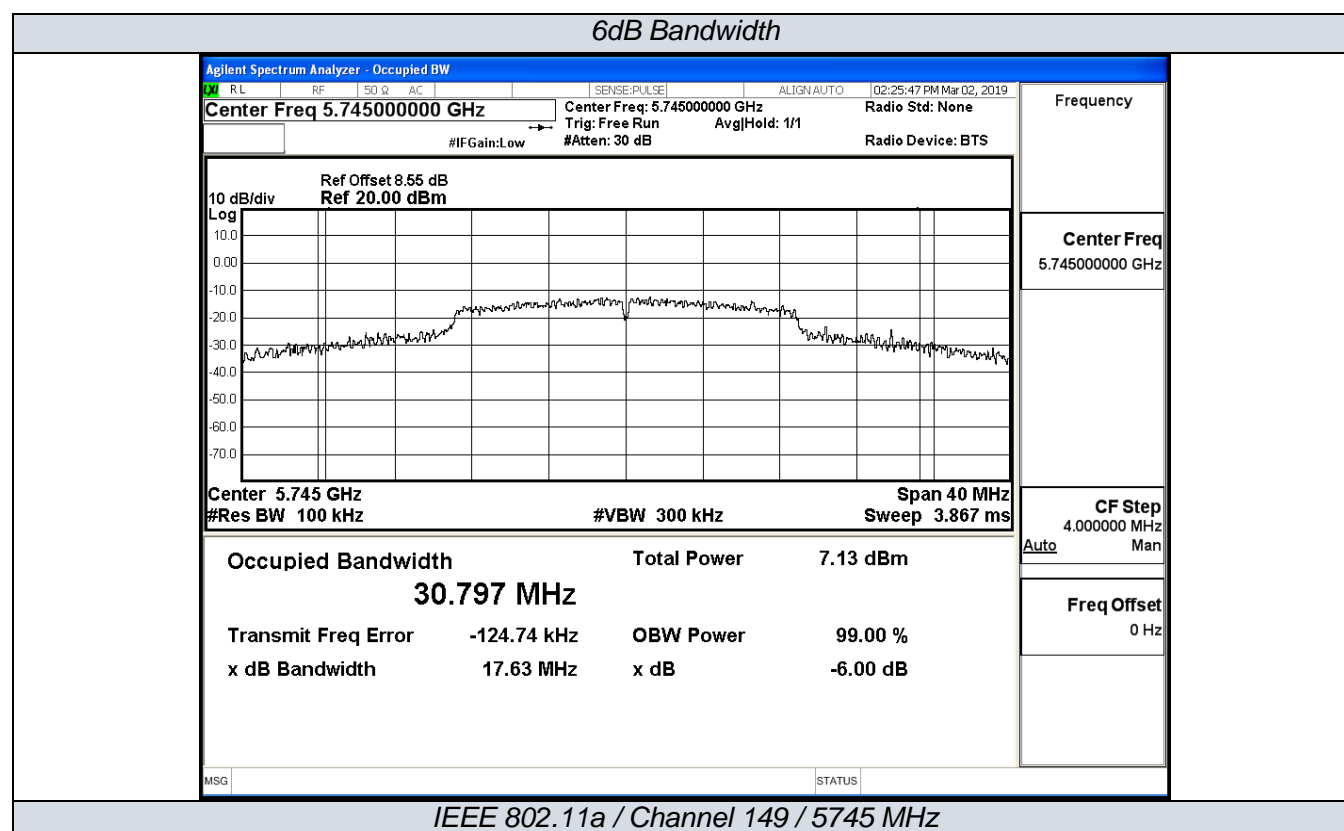
IEEE 802.11ac VHT40 / Channel 159 / 5795 MHz

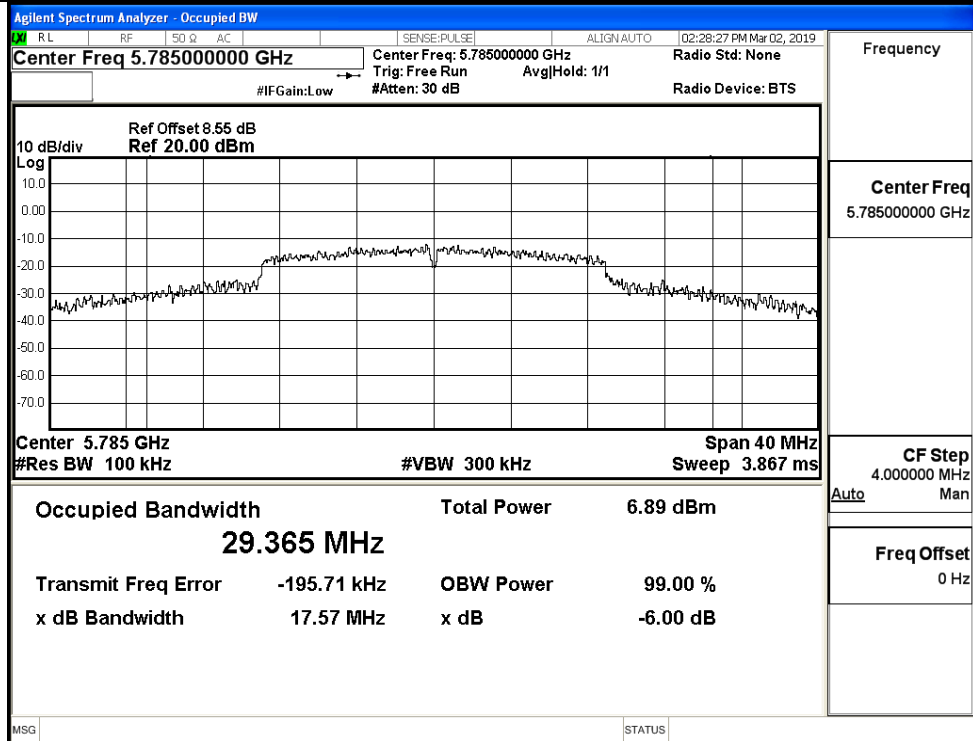


IEEE 802.11ac VHT80 / Channel 155 / 5775 MHz

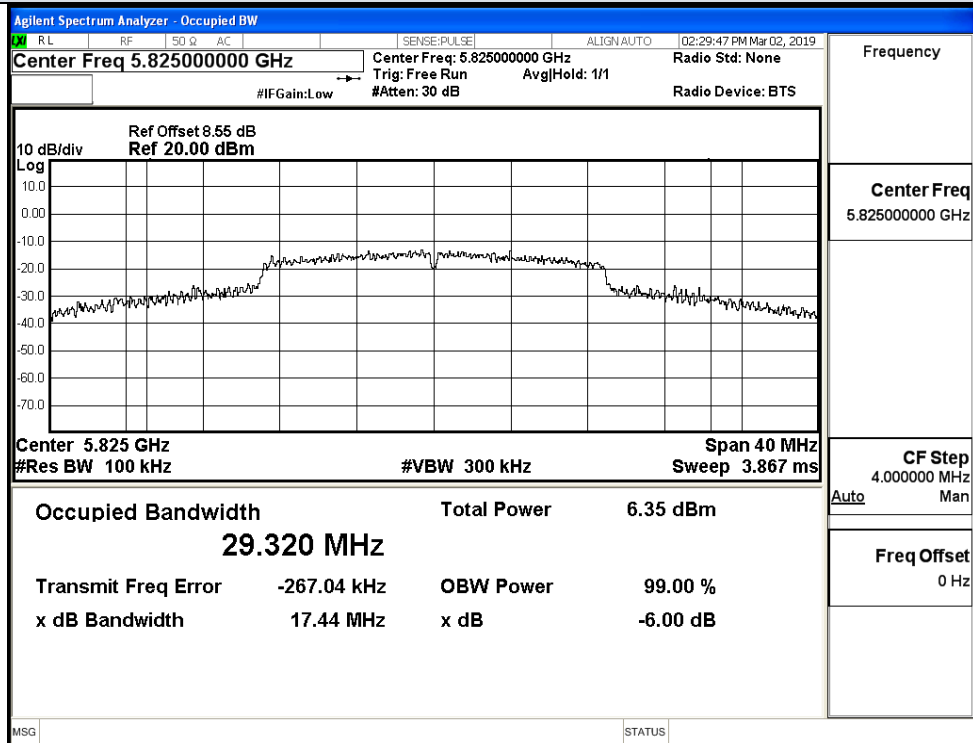
E.4 Emission Bandwidth

Test Mode	Channel	Frequency (MHz)	6dB Bandwidth (MHz)	Limit (MHz)
IEEE 802.11a	149	5745	17.630	≥ 0.5
	157	5785	17.570	
	165	5825	17.440	
IEEE 802.11n HT20	149	5745	17.160	≥ 0.5
	157	5785	17.610	
	165	5825	17.560	
IEEE 802.11n HT40	151	5755	36.370	≥ 0.5
	159	5795	36.070	
IEEE 802.11ac VHT20	149	5745	17.580	≥ 0.5
	157	5785	17.620	
	165	5825	17.620	
IEEE 802.11ac VHT40	151	5755	36.340	≥ 0.5
	159	5795	36.130	
IEEE 802.11ac VHT80	155	5775	76.130	≥ 0.5



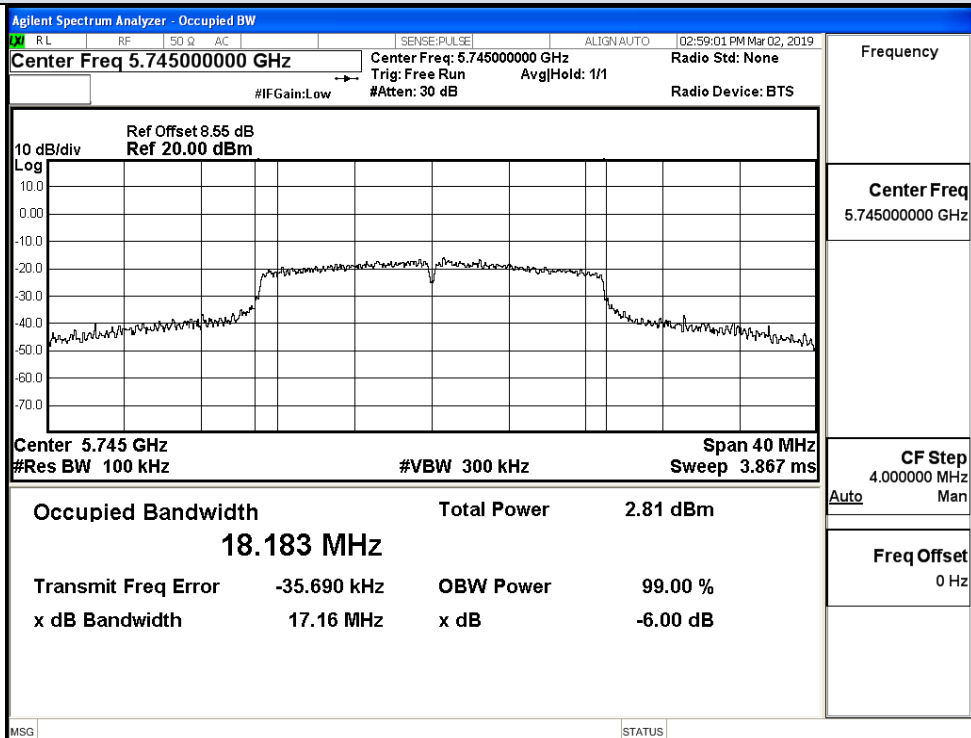


IEEE 802.11a / Channel 157 / 5785 MHz

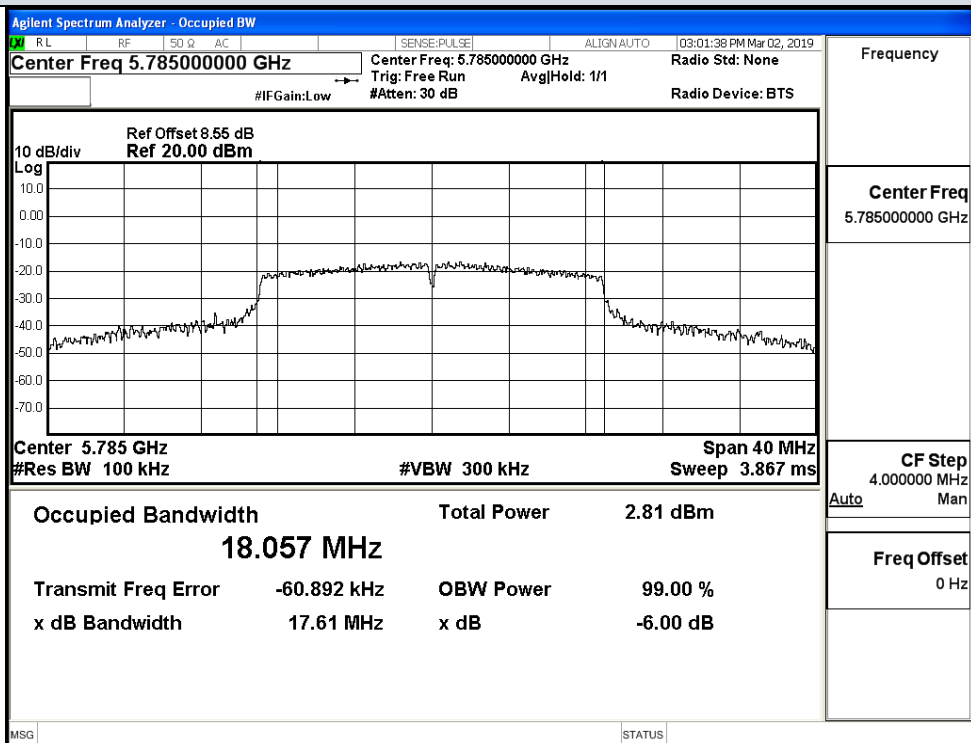


IEEE 802.11a / Channel 165 / 5825 MHz

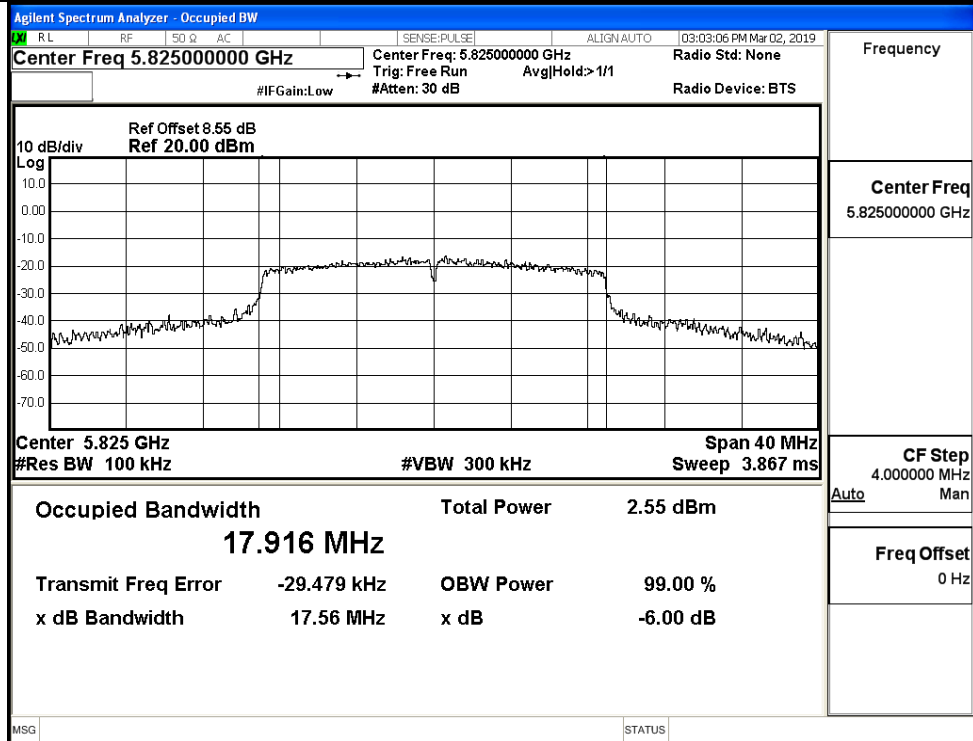
6dB Bandwidth



IEEE 802.11n HT20 / Channel 149 / 5745 MHz

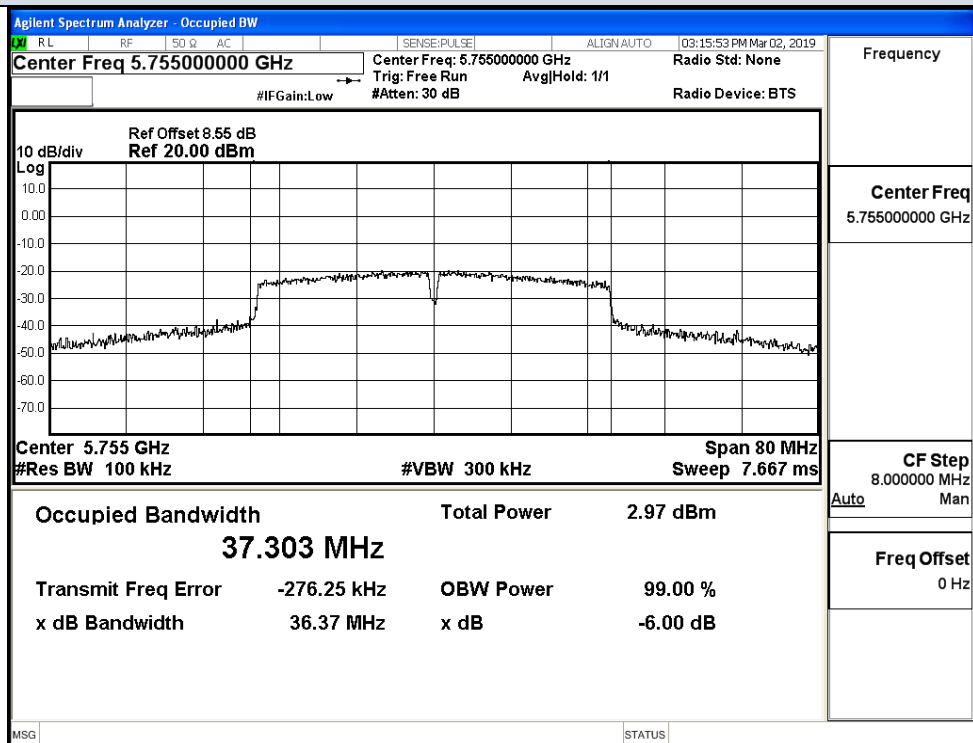


IEEE 802.11n HT20 / Channel 157 / 5785 MHz

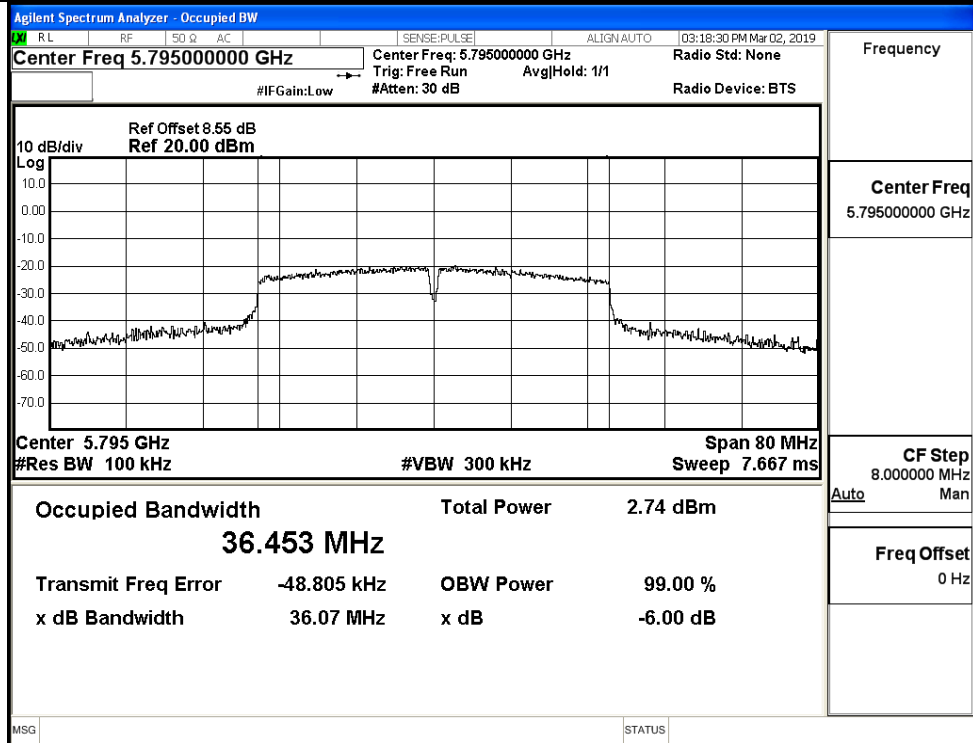


IEEE 802.11n HT20 / Channel 165 / 5825 MHz

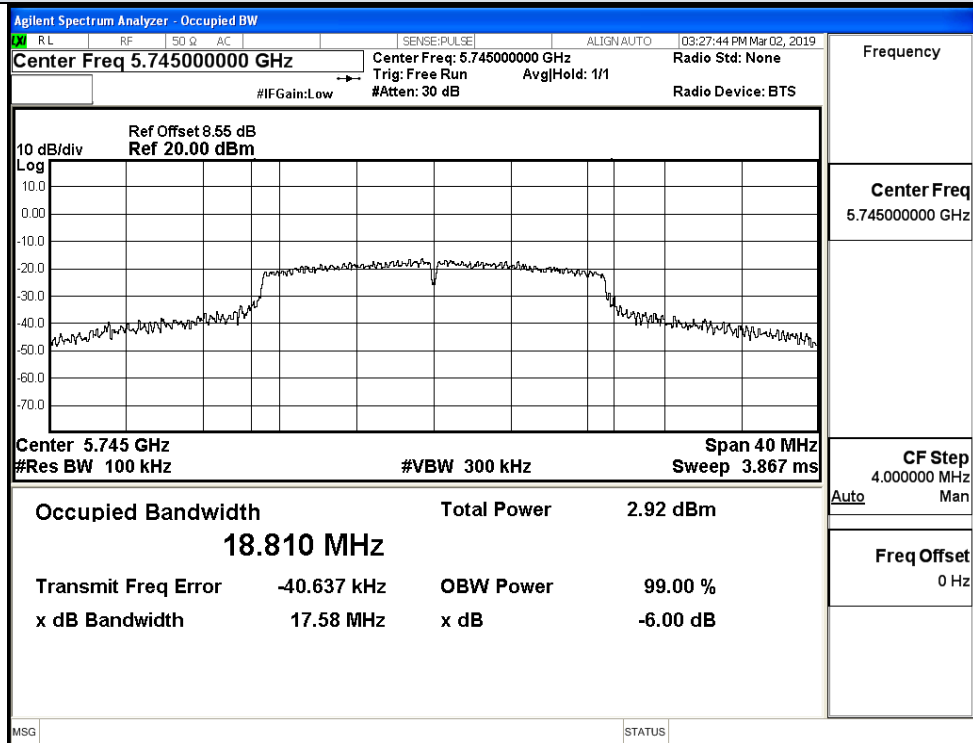
6dB Bandwidth



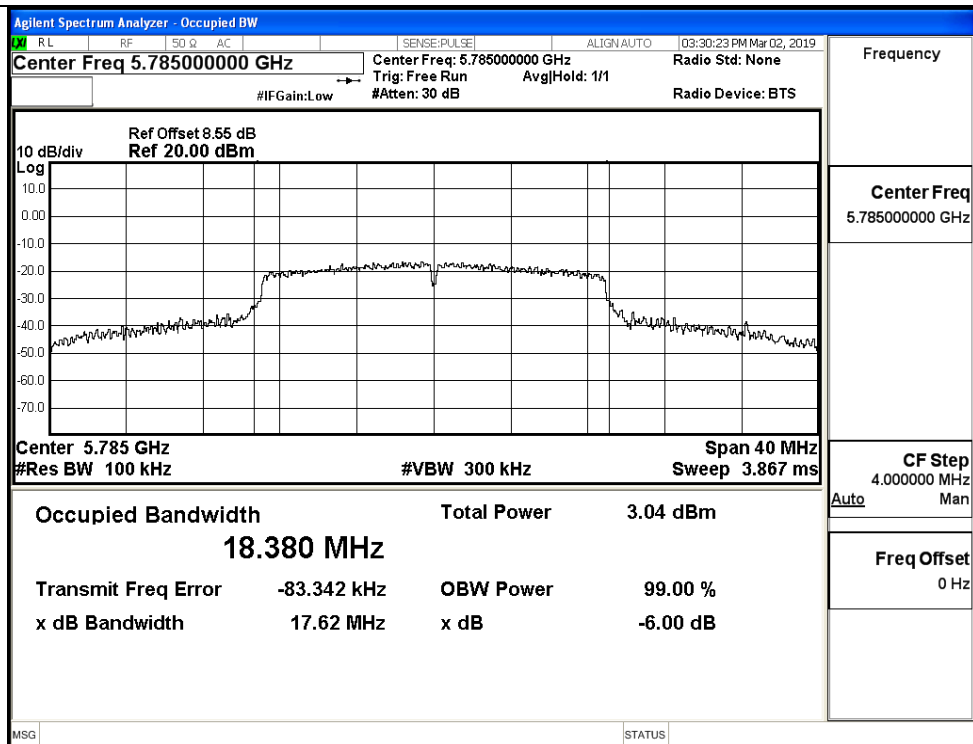
IEEE 802.11n HT40 / Channel 151 / 5755 MHz



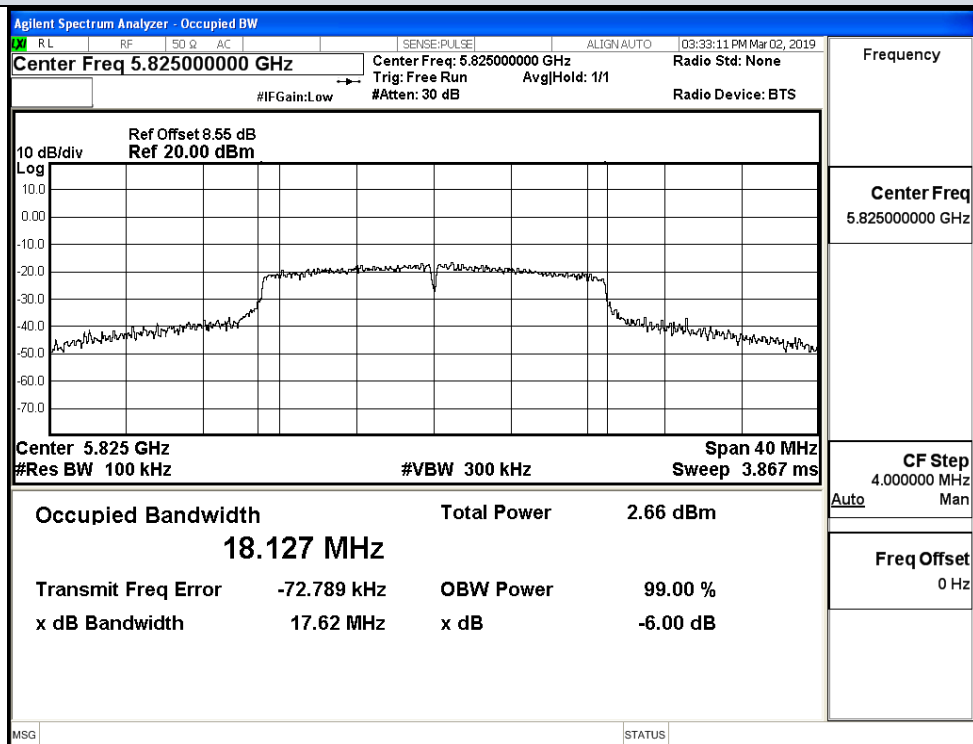
IEEE 802.11n HT40 / Channel 159 / 5795 MHz



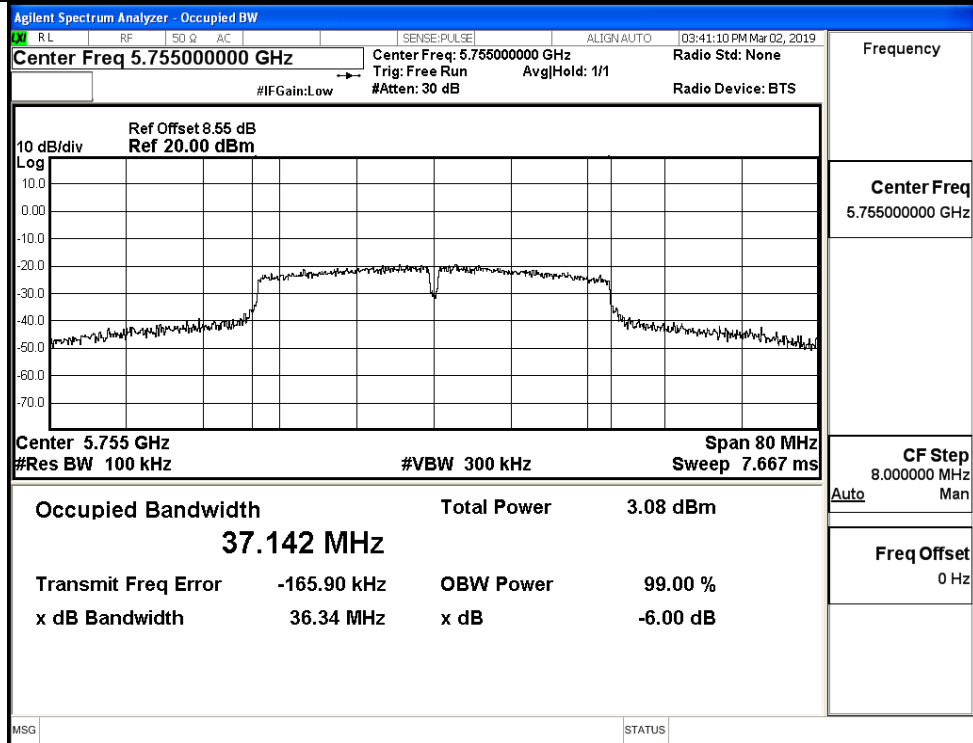
IEEE 802.11ac VHT20 / Channel 149 / 5745 MHz



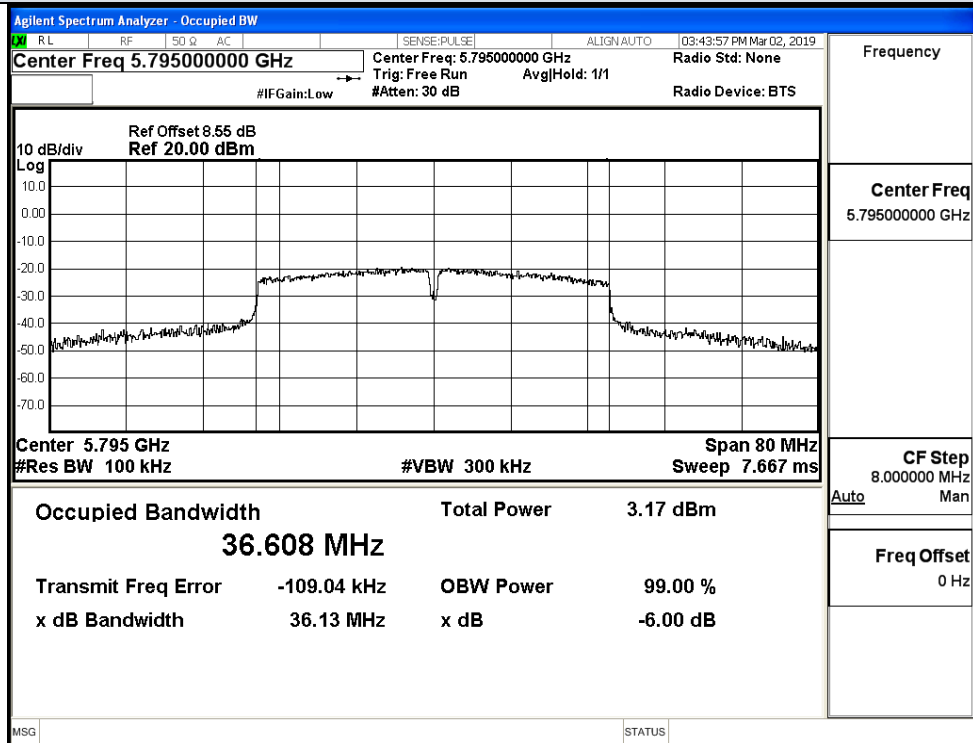
IEEE 802.11ac VHT20 / Channel 157 / 5785 MHz



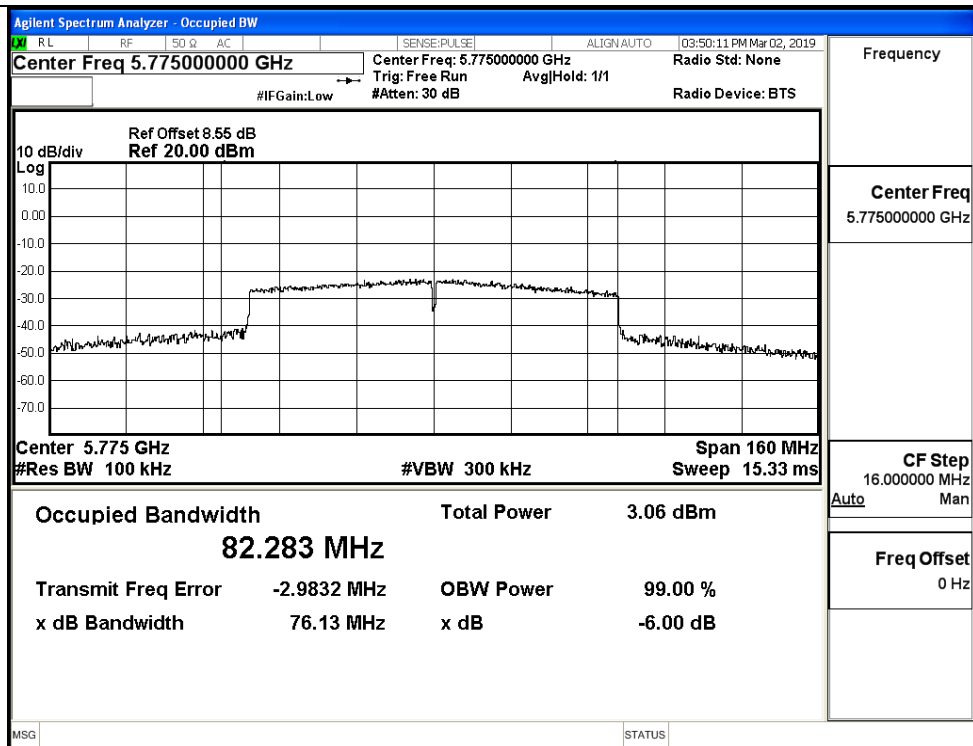
IEEE 802.11ac VHT20 / Channel 165 / 5825 MHz



IEEE 802.11ac VHT40 / Channel 151 / 5755 MHz



IEEE 802.11ac VHT40 / Channel 159 / 5795 MHz



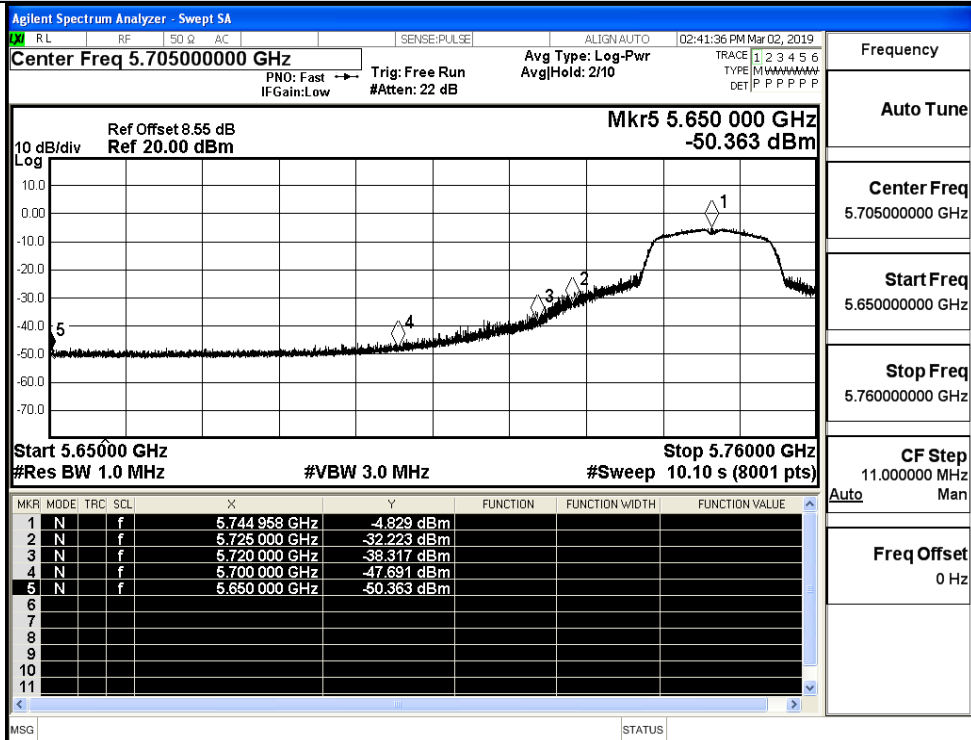
IEEE 802.11ac VHT80 / Channel 155 / 5775 MHz

E.5 Undesirable Emissions Measurement

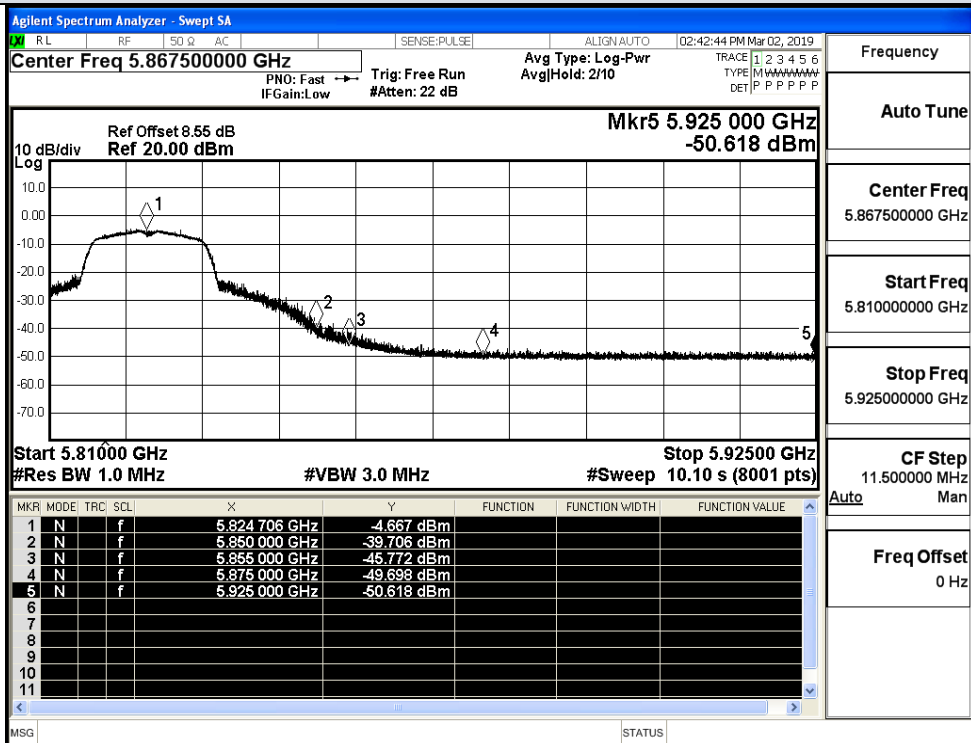
Test Mode	Channel	Frequency (MHz)	Conducted Power (dBm)	Antenna Gain (dBi)	EIRP (dBm/MHz)	Detector	Limit (dBm/MHz)
11A	149	5650.0	-50.363	3.00	-47.363	Peak	-27.0
		5700.0	-47.691	3.00	-44.691	Peak	10.0
		5720.0	-38.317	3.00	-35.317	Peak	15.6
		5725.0	-32.223	3.00	-29.223	Peak	27.0
	165	5850.0	-39.706	3.00	-36.706	Peak	27.0
		5855.0	-45.772	3.00	-42.772	Peak	15.6
		5875.0	-49.698	3.00	-46.698	Peak	10.0
		5925.0	-50.618	3.00	-47.618	Peak	-27.0
11N20 SISO	149	5650.0	-49.682	3.00	-46.682	Peak	-27.0
		5700.0	-48.335	3.00	-45.335	Peak	10.0
		5720.0	-40.272	3.00	-37.272	Peak	15.6
		5725.0	-32.727	3.00	-29.727	Peak	27.0
	165	5850.0	-42.855	3.00	-39.855	Peak	27.0
		5855.0	-45.626	3.00	-42.626	Peak	15.6
		5875.0	-50.255	3.00	-47.255	Peak	10.0
		5925.0	-50.197	3.00	-47.197	Peak	-27.0
11N40 SISO	151	5650.0	-49.843	3.00	-46.843	Peak	-27.0
		5700.0	-42.636	3.00	-39.636	Peak	10.0
		5720.0	-32.298	3.00	-29.298	Peak	15.6
		5725.0	-31.854	3.00	-28.854	Peak	27.0
	159	5850.0	-47.215	3.00	-44.215	Peak	27.0
		5855.0	-48.032	3.00	-45.032	Peak	15.6
		5875.0	-50.281	3.00	-47.281	Peak	10.0
		5925.0	-50.139	3.00	-47.139	Peak	-27.0
11NAC20 SISO	149	5650.0	-50.271	3.00	-47.271	Peak	-27.0
		5700.0	-46.930	3.00	-43.930	Peak	10.0
		5720.0	-37.442	3.00	-34.442	Peak	15.6
		5725.0	-32.251	3.00	-29.251	Peak	27.0
	165	5850.0	-39.727	3.00	-36.727	Peak	27.0
		5855.0	-44.144	3.00	-41.144	Peak	15.6
		5875.0	-49.889	3.00	-46.889	Peak	10.0
		5925.0	-50.305	3.00	-47.305	Peak	-27.0
11AC40 SISO	151	5650.0	-50.057	3.00	-47.057	Peak	-27.0
		5700.0	-43.036	3.00	-40.036	Peak	10.0
		5720.0	-32.830	3.00	-29.830	Peak	15.6
		5725.0	-29.051	3.00	-26.051	Peak	27.0
	159	5850.0	-46.429	3.00	-43.429	Peak	27.0
		5855.0	-45.752	3.00	-42.752	Peak	15.6
		5875.0	-50.189	3.00	-47.189	Peak	10.0
		5925.0	-50.513	3.00	-47.513	Peak	-27.0
11AC80 SISO	155	5650.0	-52.570	3.00	-49.570	Peak	-27.0
		5700.0	-48.418	3.00	-45.418	Peak	10.0
		5720.0	-46.760	3.00	-43.760	Peak	15.6
		5725.0	-45.469	3.00	-42.469	Peak	27.0
		5850.0	-48.918	3.00	-45.918	Peak	27.0
		5855.0	-46.554	3.00	-43.554	Peak	15.6

		5875.0	-49.341	3.00	-46.341	Peak	10.0
		5925.0	-49.418	3.00	-46.418	Peak	-27.0

Undesirable Emissions Measurement

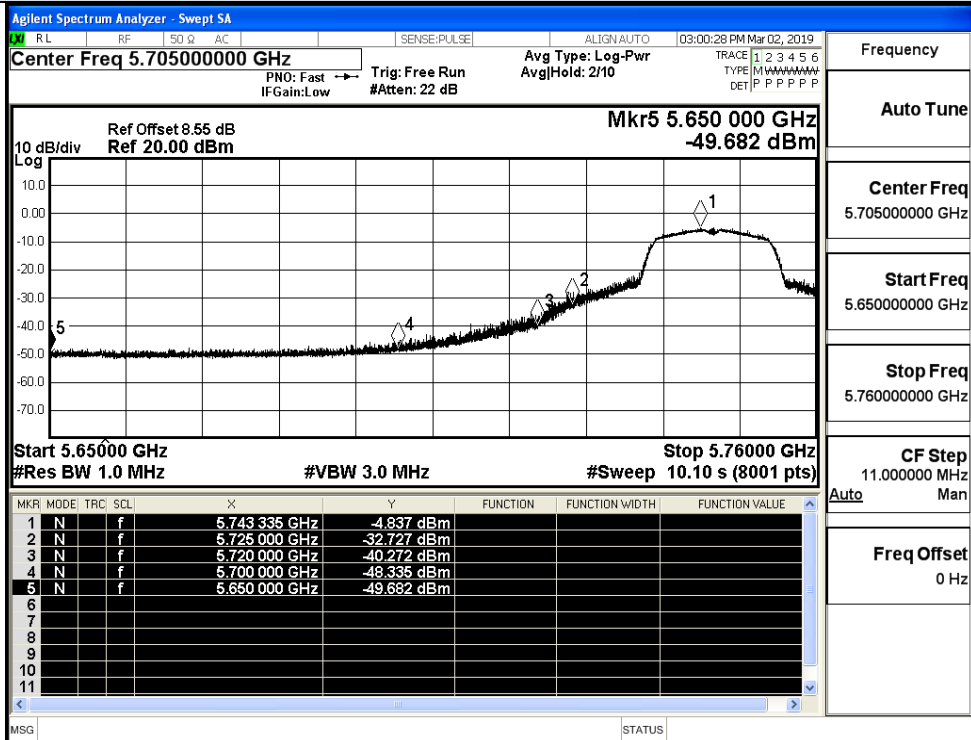


IEEE 802.11a / Channel 149 / 5745 MHz / Peak

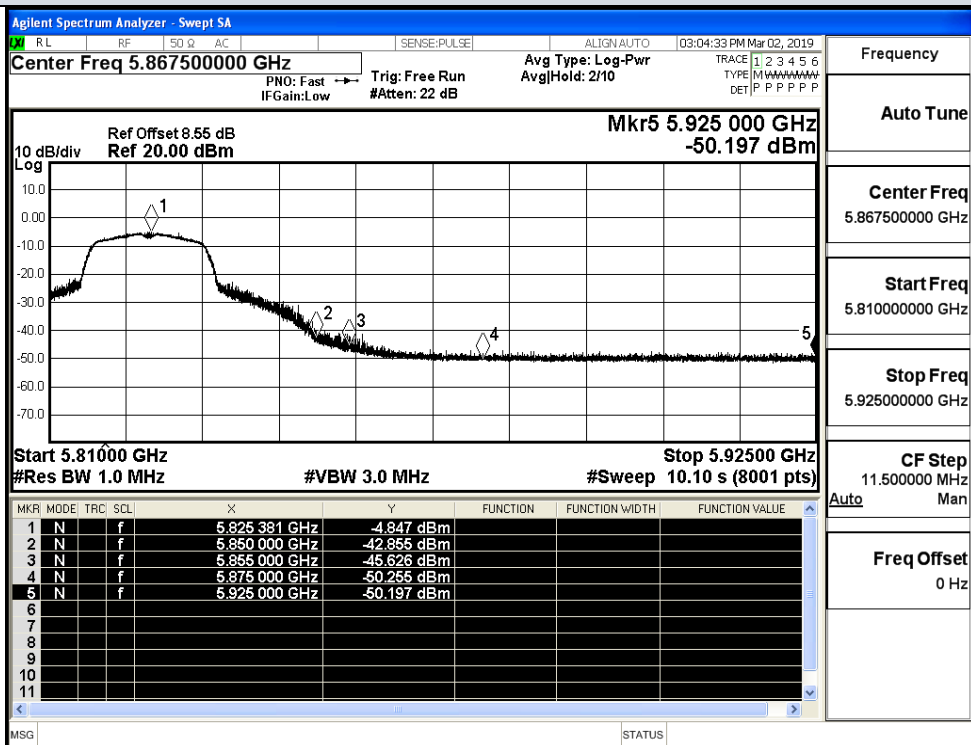


IEEE 802.11a / Channel 165 / 5825 MHz / Peak

Undesirable Emissions Measurement

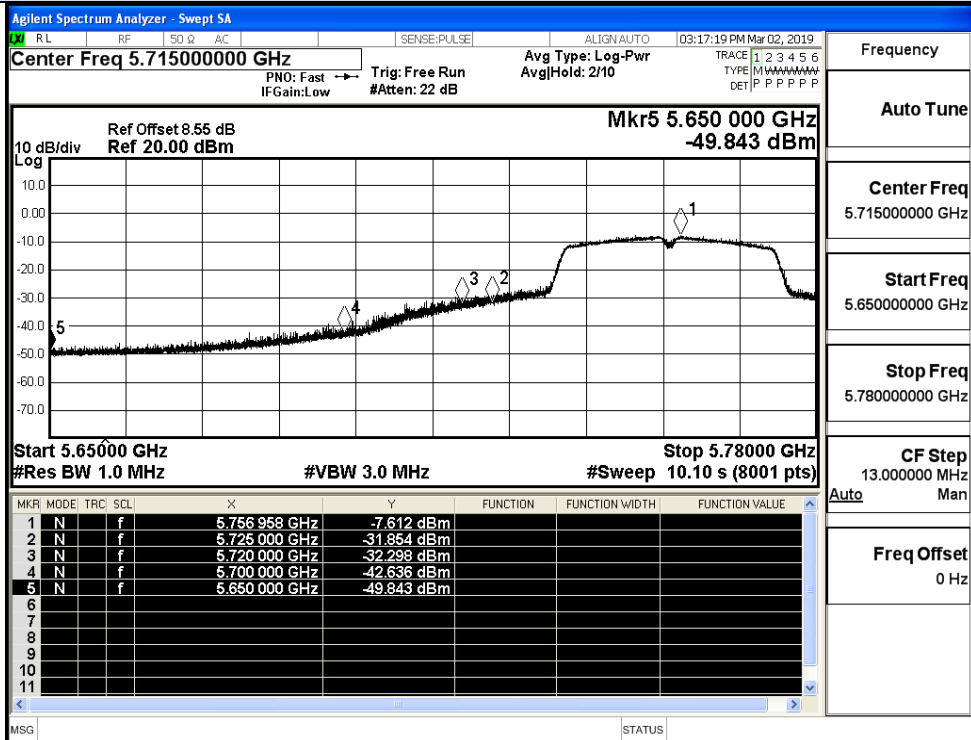


IEEE 802.11n HT20 / Channel 149 / 5745 MHz / Peak

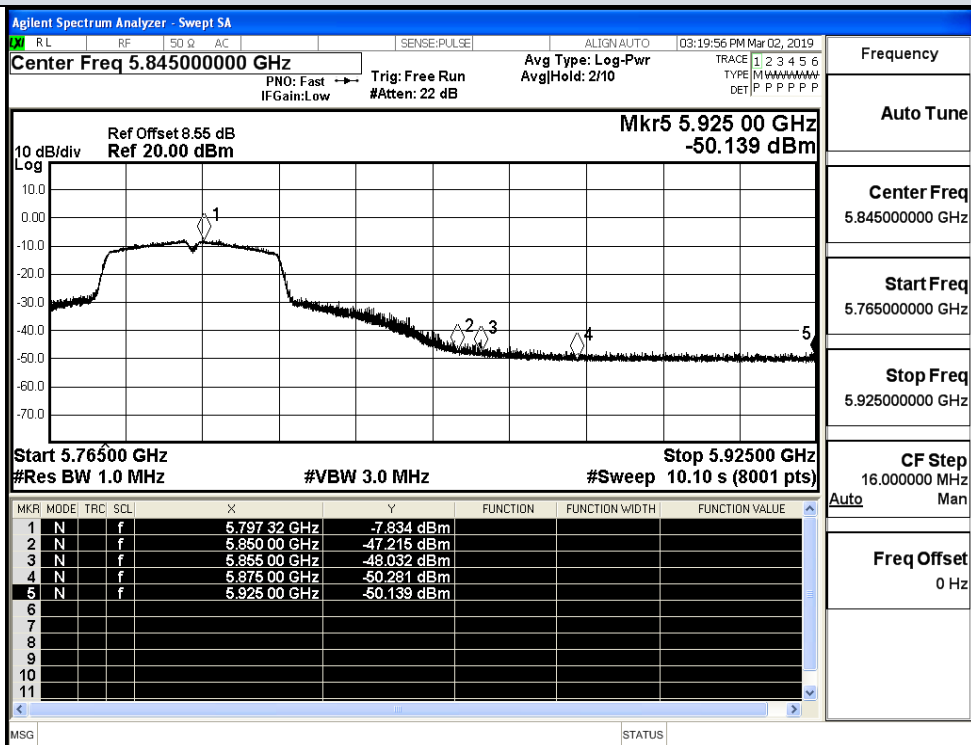


IEEE 802.11n HT20 / Channel 165 / 5825 MHz / Peak

Undesirable Emissions Measurement

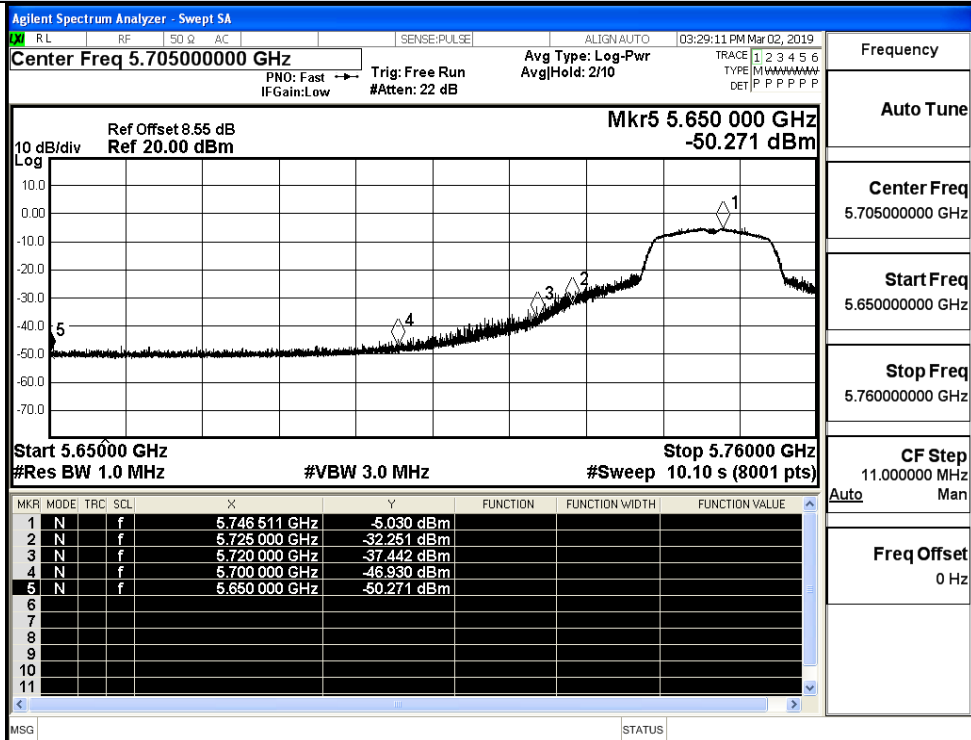


IEEE 802.11n HT40 / Channel 151 / 5755 MHz / Peak

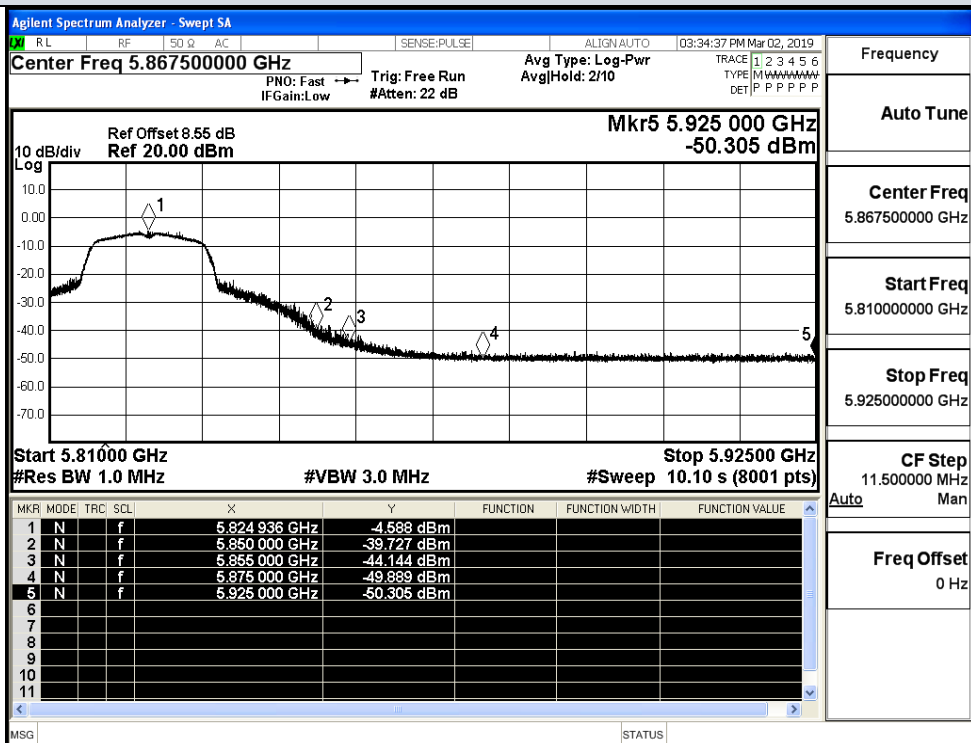


IEEE 802.11n HT40 / Channel 159 / 5795 MHz / Peak

Undesirable Emissions Measurement

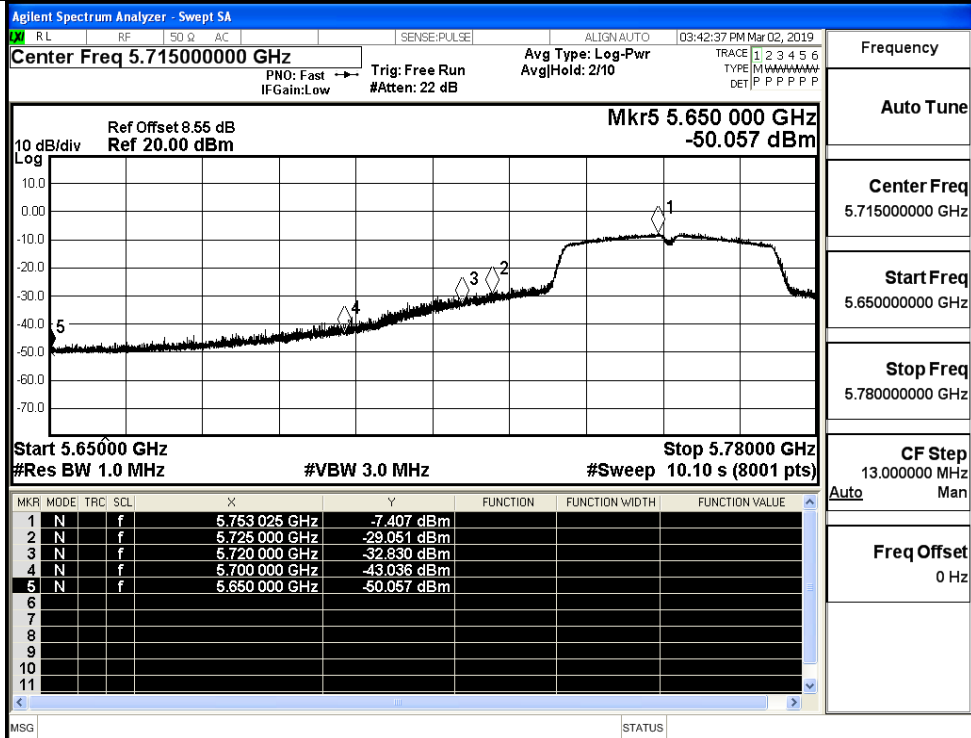


IEEE 802.11ac VHT20 / Channel 149 / 5745 MHz / Peak

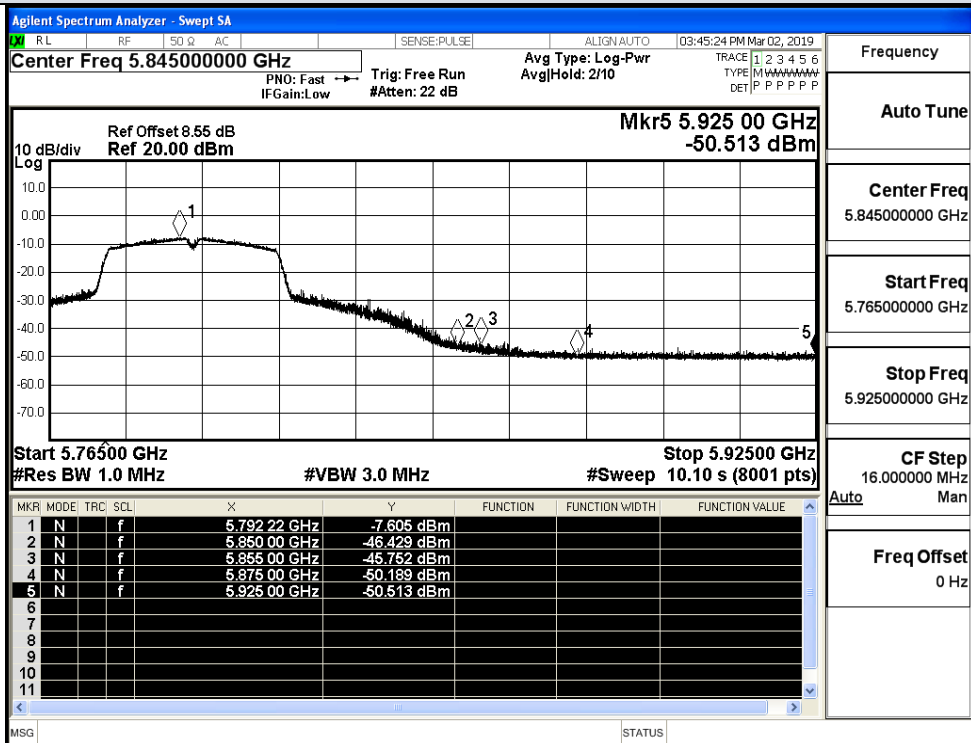


IEEE 802.11ac VHT20 / Channel 165 / 5825 MHz / Peak

Undesirable Emissions Measurement

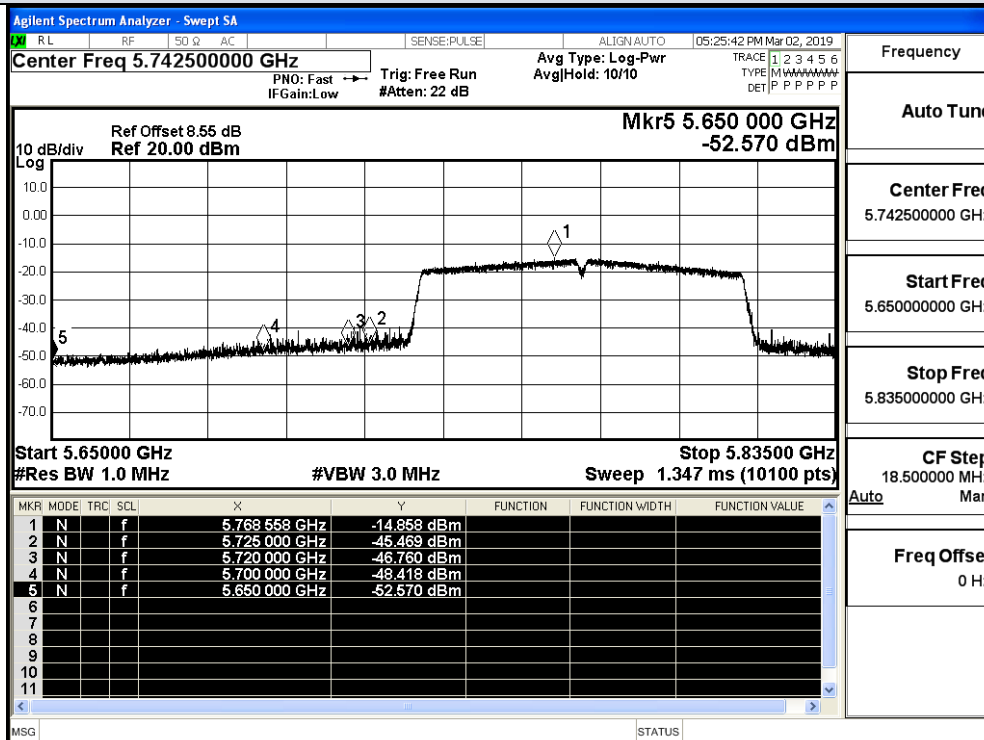


IEEE 802.11ac VHT40 / Channel 151 / 5755 MHz / Peak



IEEE 802.11ac VHT40 / Channel 159 / 5795 MHz / Peak

Undesirable Emissions Measurement



IEEE 802.11ac VHT80 / Channel 155 / 5775 MHz / Peak

IEEE 802.11ac VHT80 / Channel 155 / 5775 MHz / Peak