Appendix E

RF Test Data for 5.8G WLAN (Conducted Measurement)

Product Name: Tablet PC
Trade Mark: ALLDOCUBE
Test Model: U1005

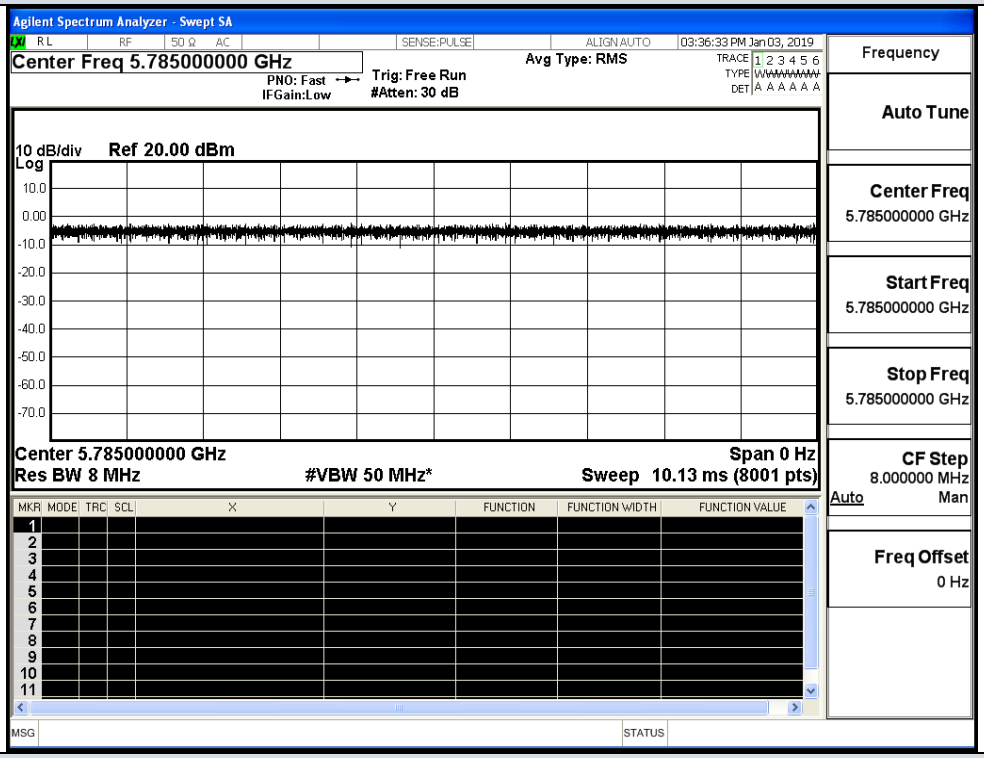
Environmental Conditions

Temperature:	22.5° C
Relative Humidity:	52.3%
ATM Pressure:	100.0 kPa
Test Engineer:	Diamond.Lu
Supervised by:	Jayden.Zhuo

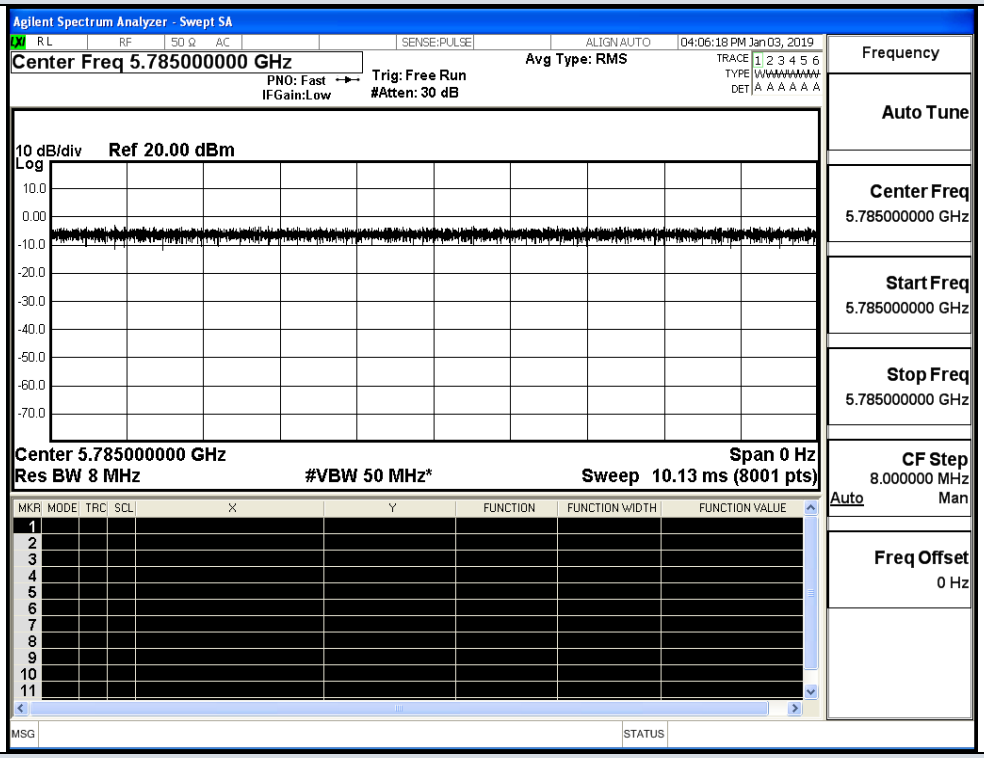
E.1 Duty Cycle

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

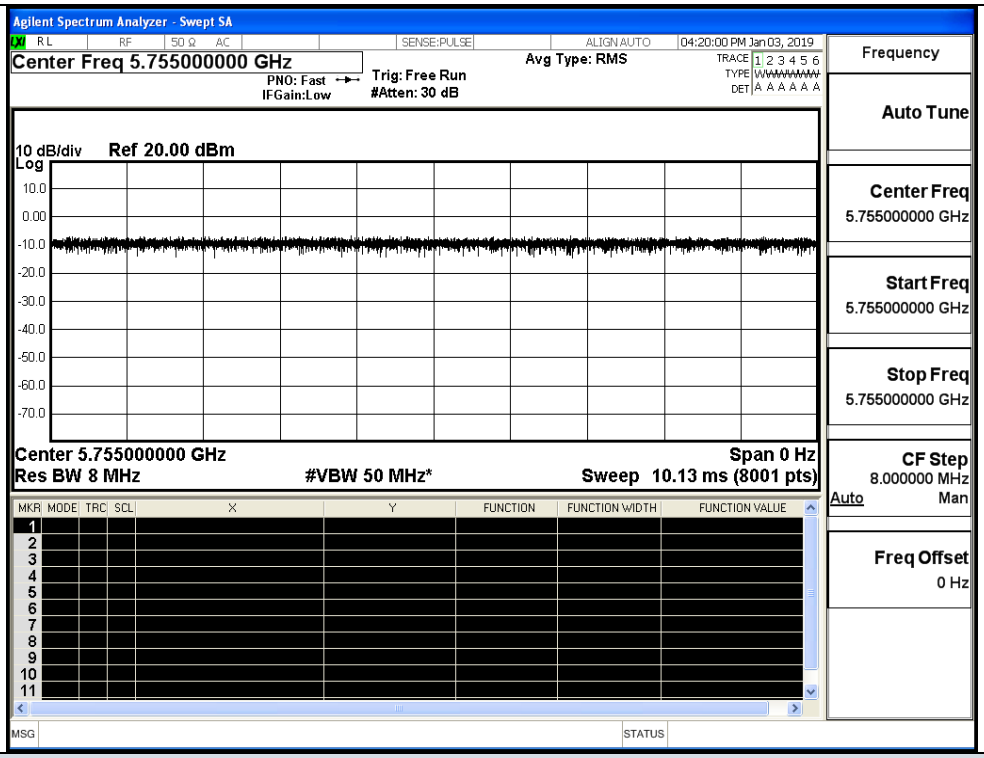
On Time and Duty Cycle



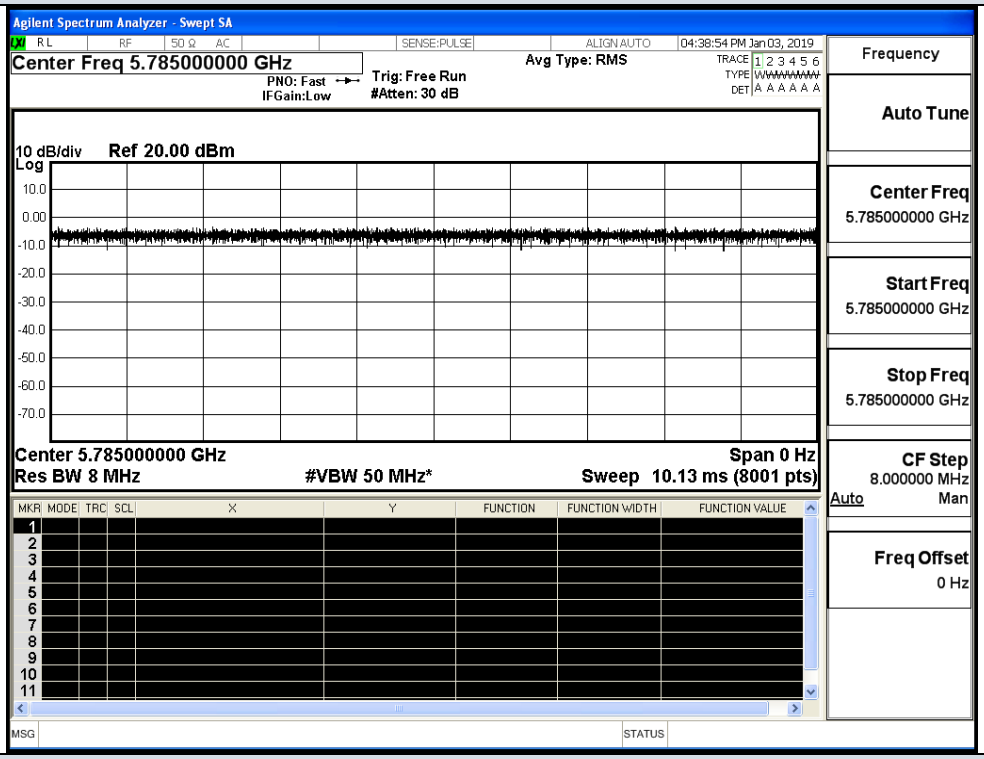
IEEE 802.11a



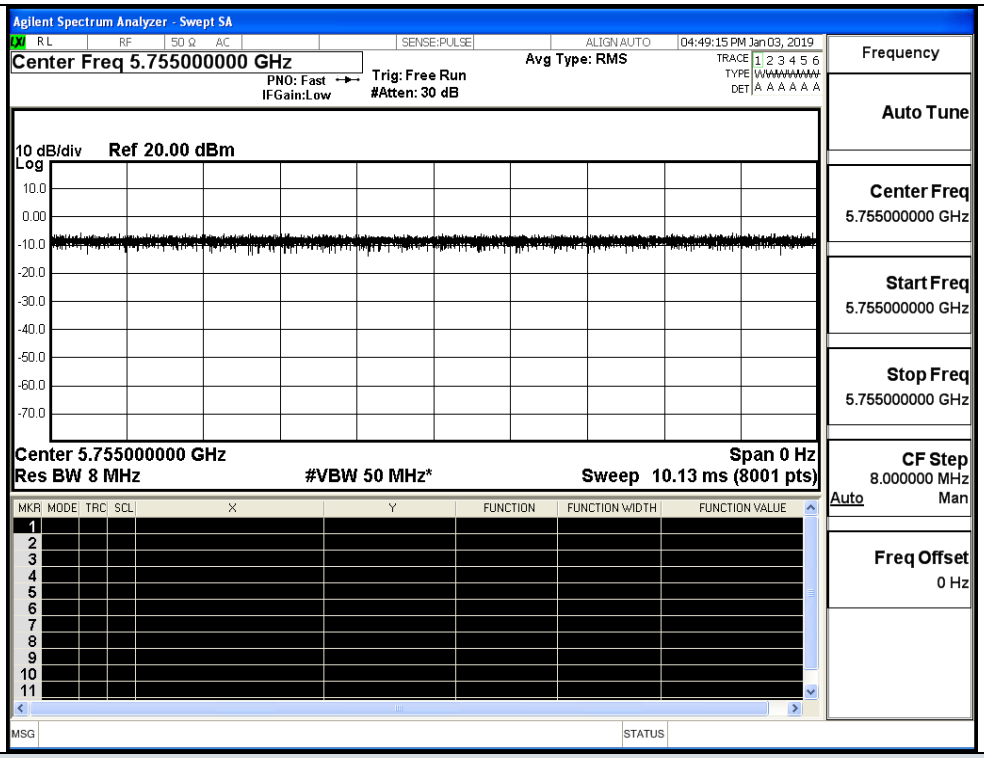
IEEE 802.11n HT20



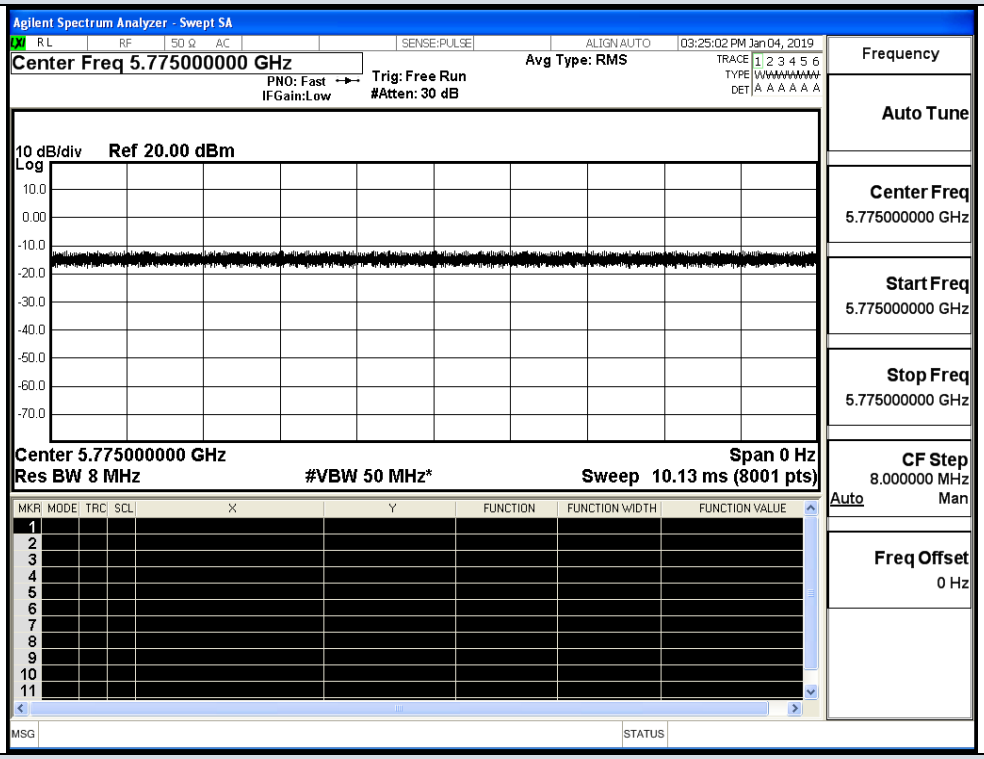
IEEE 802.11n HT40



IEEE 802.11ac VHT20



IEEE 802.11ac VHT40



IEEE 802.11ac VHT80

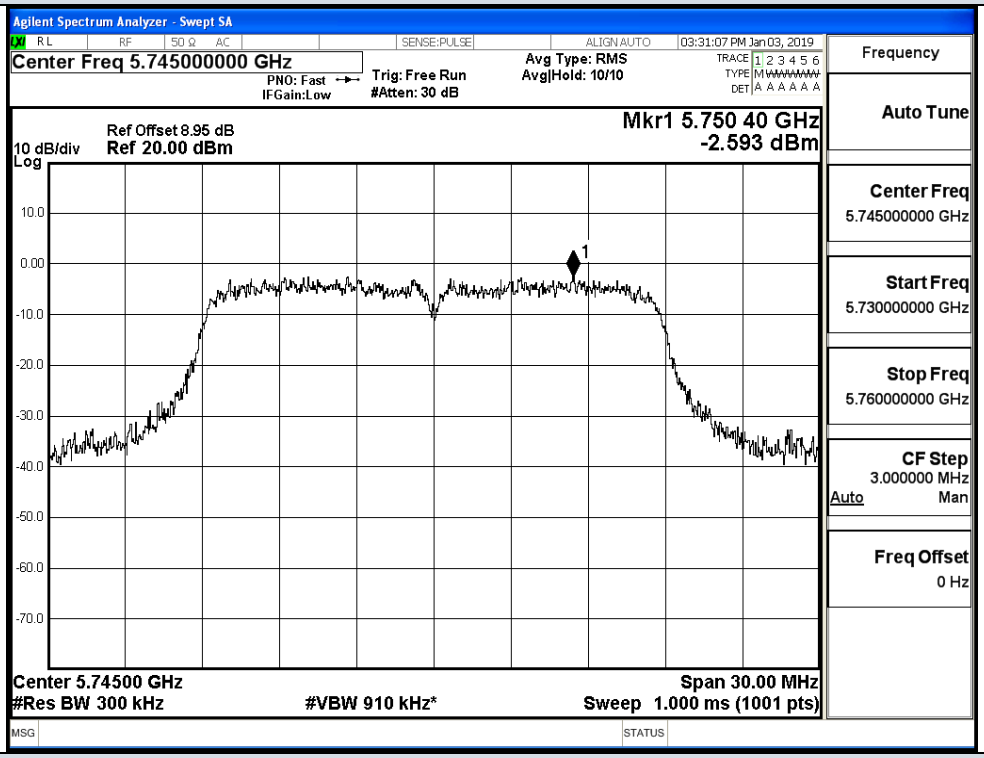
E.2 Maximum Conduct Output Power

Test Mode	Channel	Frequency (MHz)	Average Conducted Power (dBm)	Duty Cycle Factor (dB)	Report Conducted Power (dBm)	Limit (dBm)
11A	149	5745	12.47	0	12.47	30
	157	5785	11.84	0	11.84	
	165	5825	11.45	0	11.45	
11N20 SISO	149	5745	11.68	0	11.68	30
	157	5785	10.97	0	10.97	
	165	5825	11.46	0	11.46	
11N40 SISO	151	5755	10.68	0	10.68	30
	159	5795	11.38	0	11.38	
11AC20 SISO	149	5745	12.09	0	12.09	30
	157	5785	11.99	0	11.99	
	165	5825	11.65	0	11.65	
11AC40 SISO	151	5755	11.45	0	11.45	30
	159	5795	12.63	0	12.63	
11AC80 SISO	155	5775	11.30	0	11.30	30

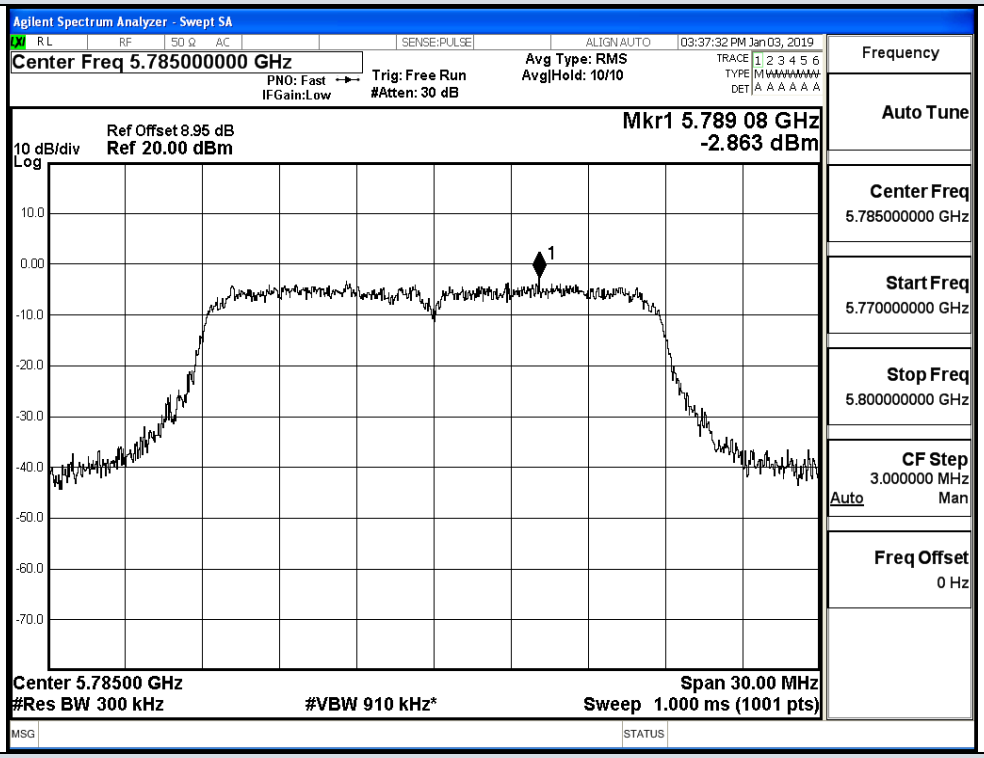
E.3 Power Spectral Density

Test Mode	Channel	Frequency (MHz)	Power Density (dBm/300KHz)	Duty Cycle Factor (dB)	RBW Factor (dB)	Report Power Density (dBm/ 500KHz)	Limit (dBm/ 500KHz)
11A	149	5745	-2.593	0	2.218	-0.375	30
	157	5785	-2.863	0	2.218	-0.645	
	165	5825	-3.088	0	2.218	-0.870	
11N20 SISO	149	5745	-3.033	0	2.218	-0.815	30
	157	5785	-3.606	0	2.218	-1.388	
	165	5825	-3.090	0	2.218	-0.872	
11N40 SISO	151	5755	-6.874	0	2.218	-4.656	30
	159	5795	-6.049	0	2.218	-3.831	
11AC20 SISO	149	5745	-2.778	0	2.218	-0.560	30
	157	5785	-4.013	0	2.218	-1.795	
	165	5825	-3.890	0	2.218	-1.672	
11AC40 SISO	151	5755	-6.053	0	2.218	-3.835	30
	159	5795	-6.435	0	2.218	-4.217	
11AC80 SISO	151	5755	-9.465	0	2.218	-7.247	30

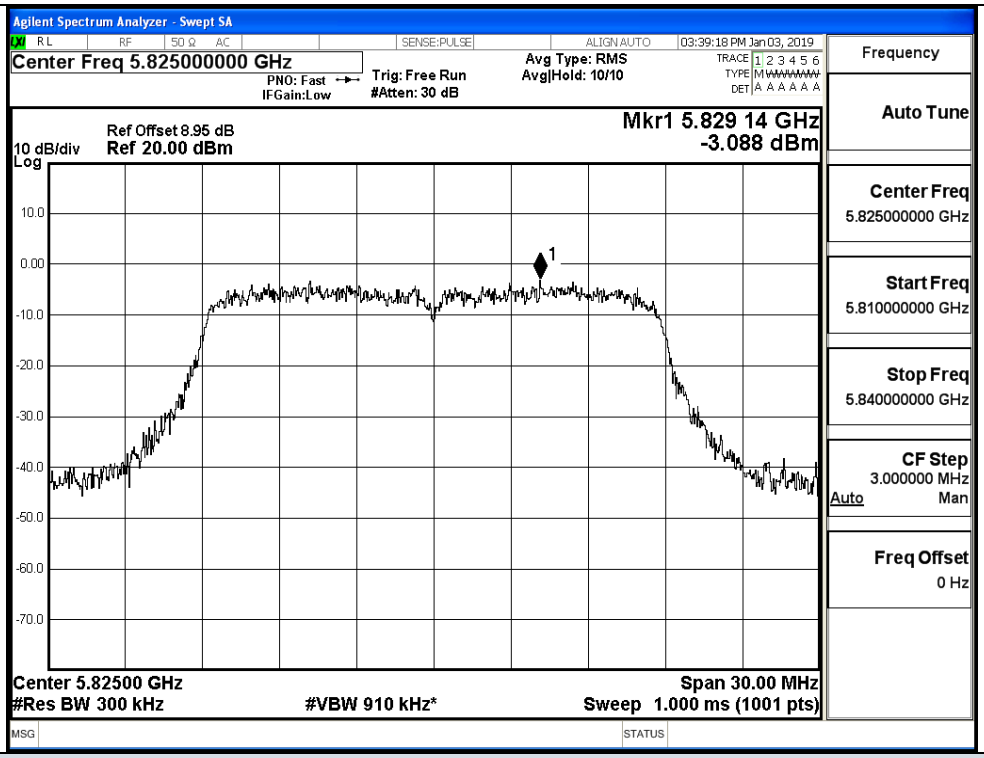
Power Spectral Density



IEEE 802.11a / Channel 149 / 5745 MHz

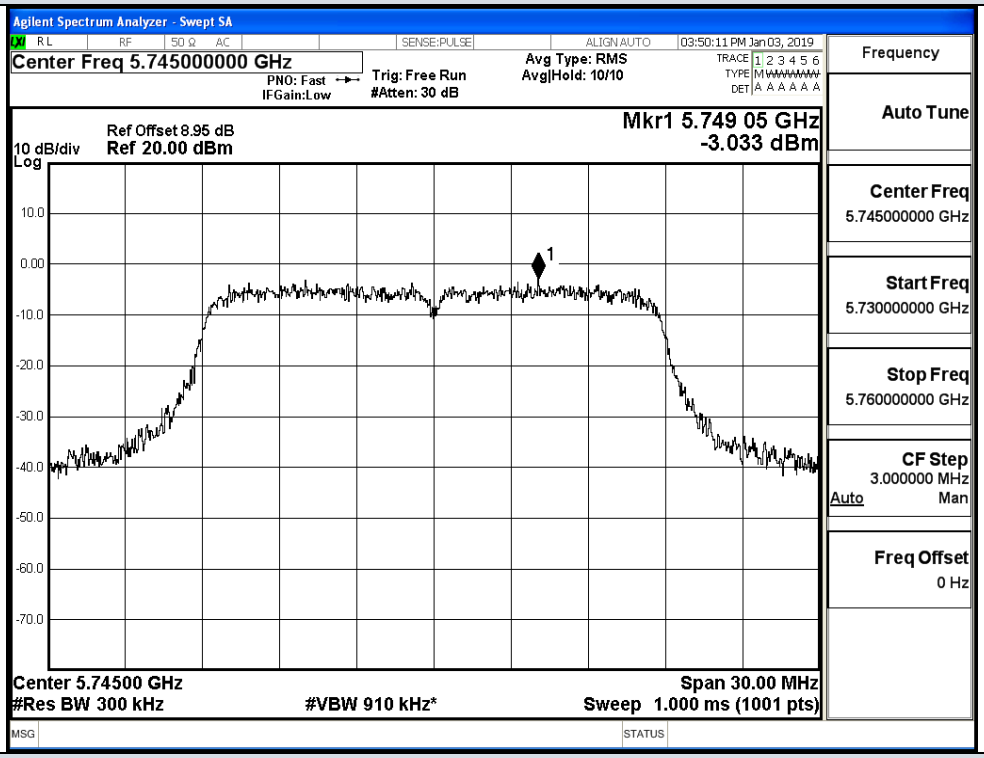


IEEE 802.11a / Channel 157 / 5785 MHz

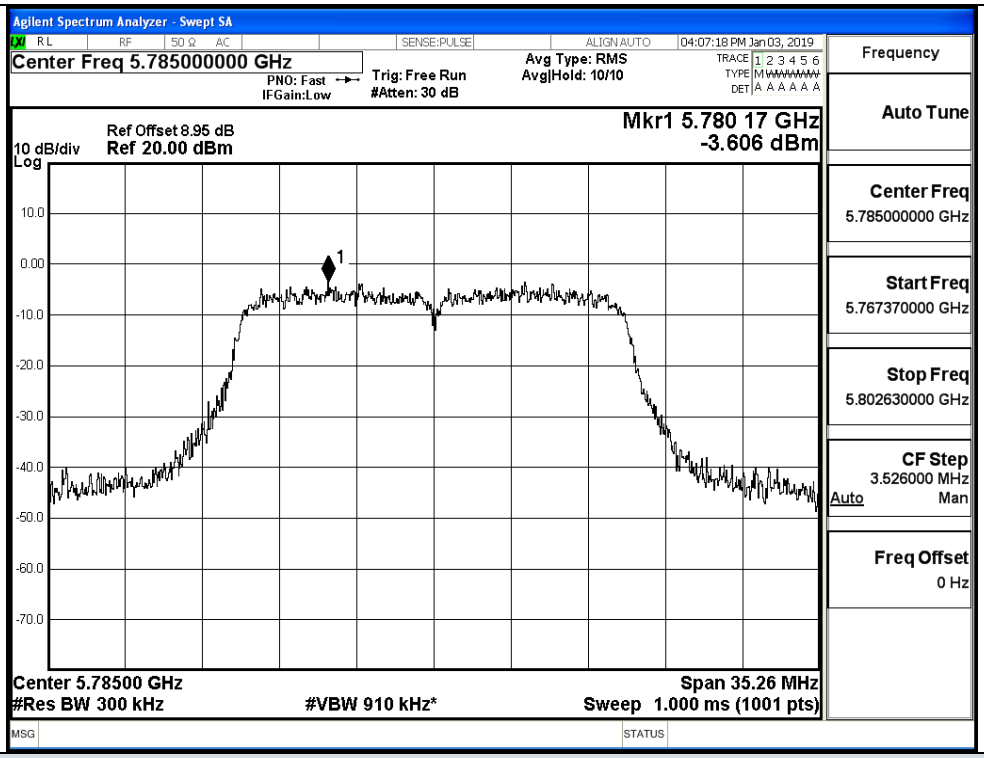


IEEE 802.11a / Channel 165 / 5825 MHz

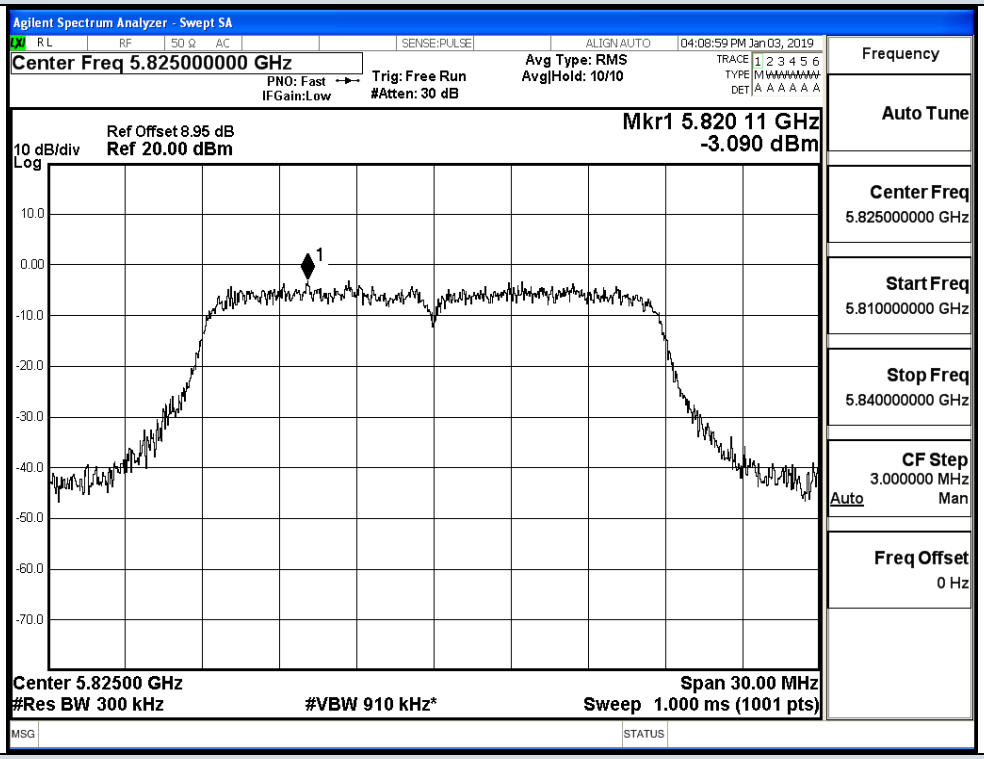
Power Spectral Density



IEEE 802.11n HT20 / Channel 149 / 5745 MHz

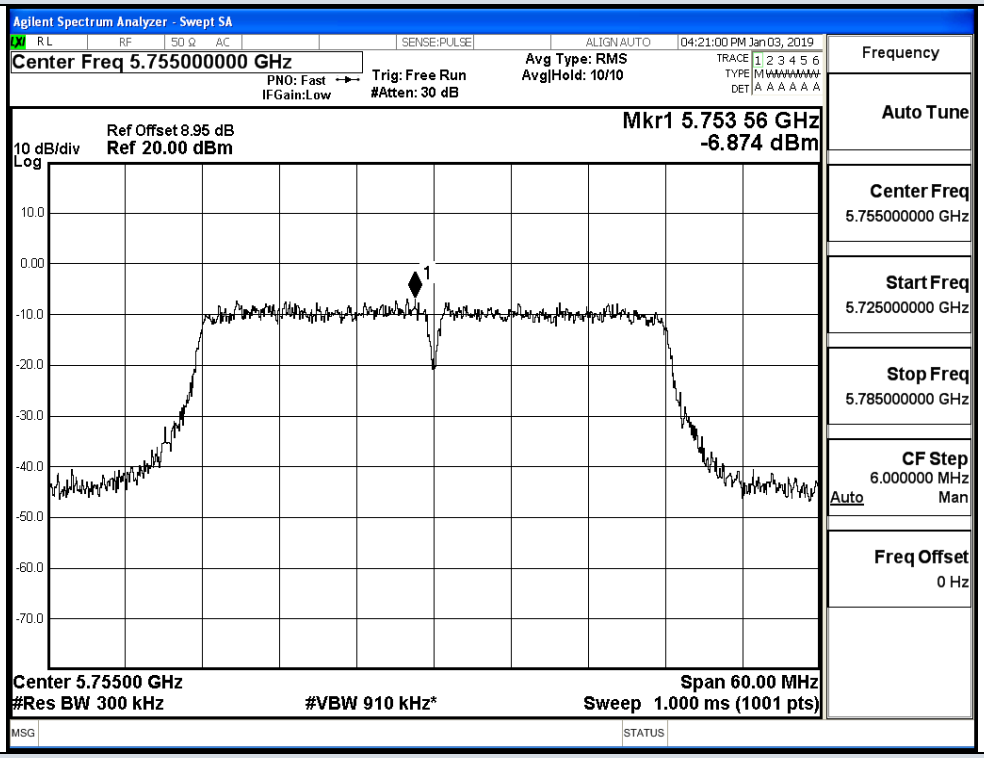


IEEE 802.11n HT20 / Channel 157 / 5785 MHz

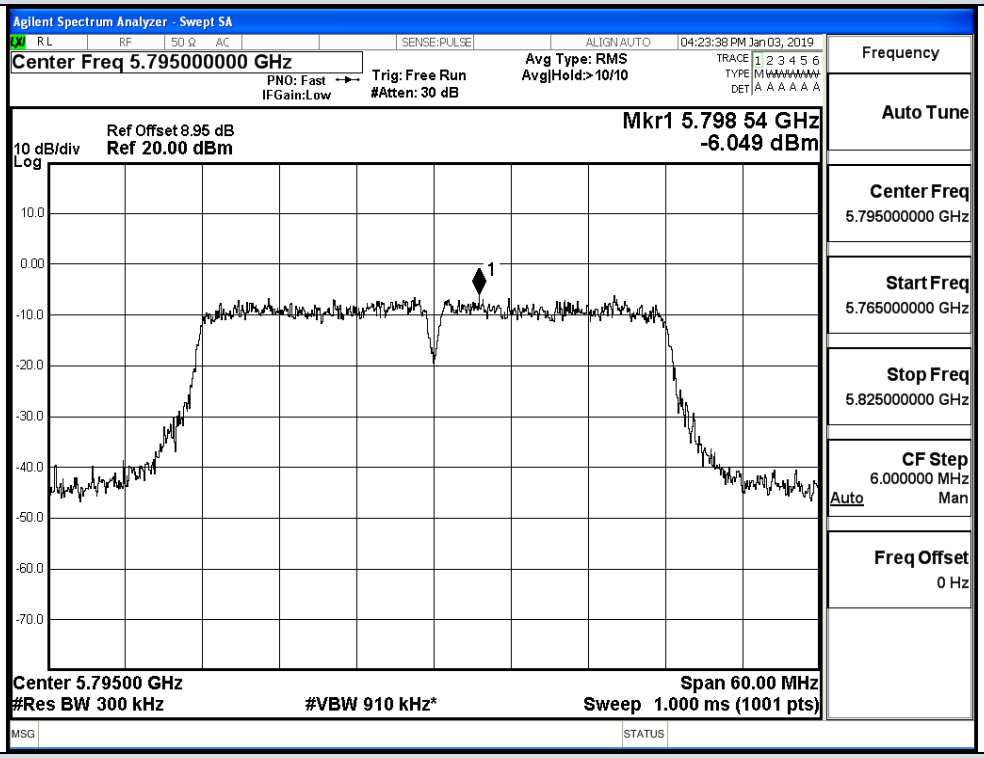


IEEE 802.11n HT20 / Channel 165 / 5825 MHz

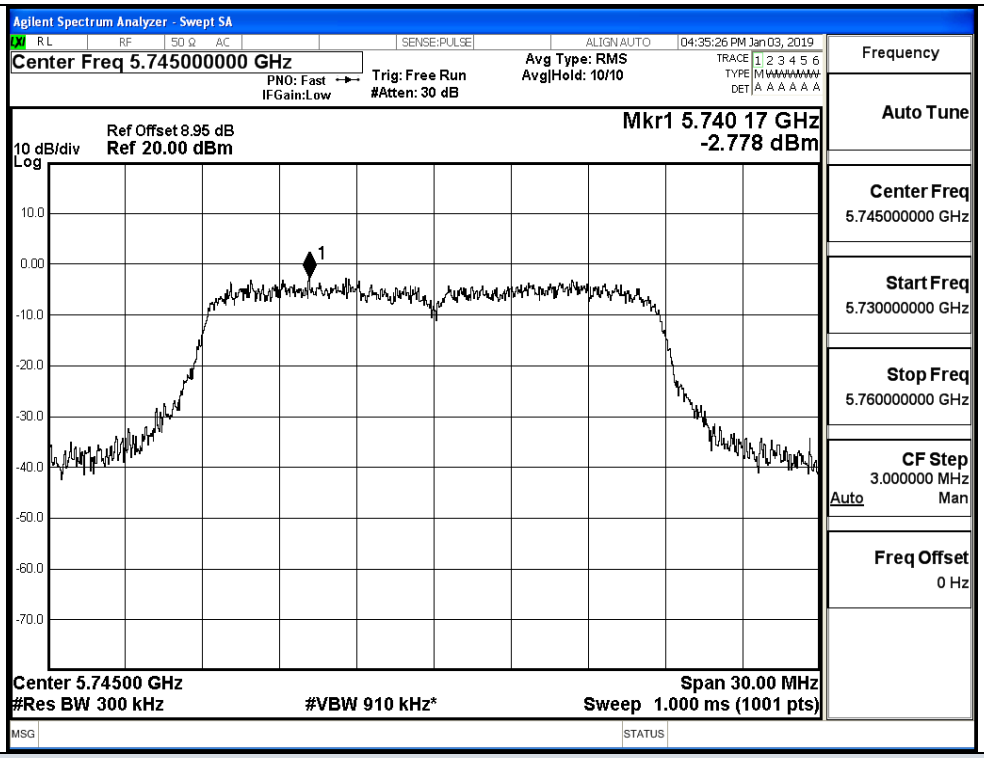
Power Spectral Density



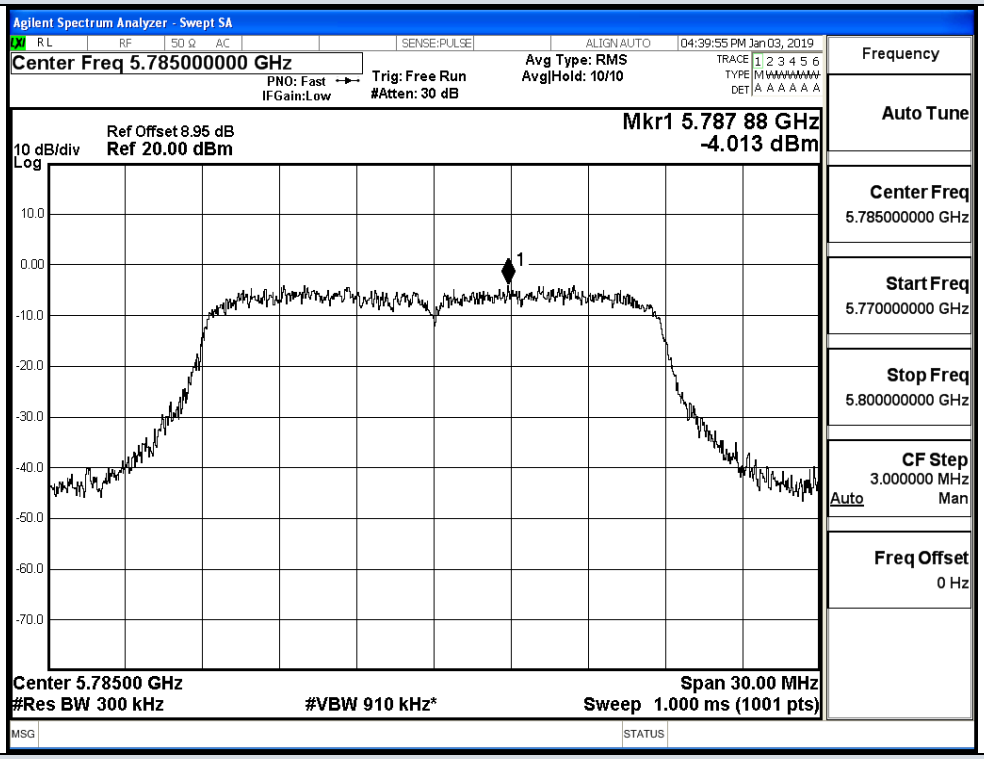
IEEE 802.11n HT40 / Channel 151 / 5755 MHz



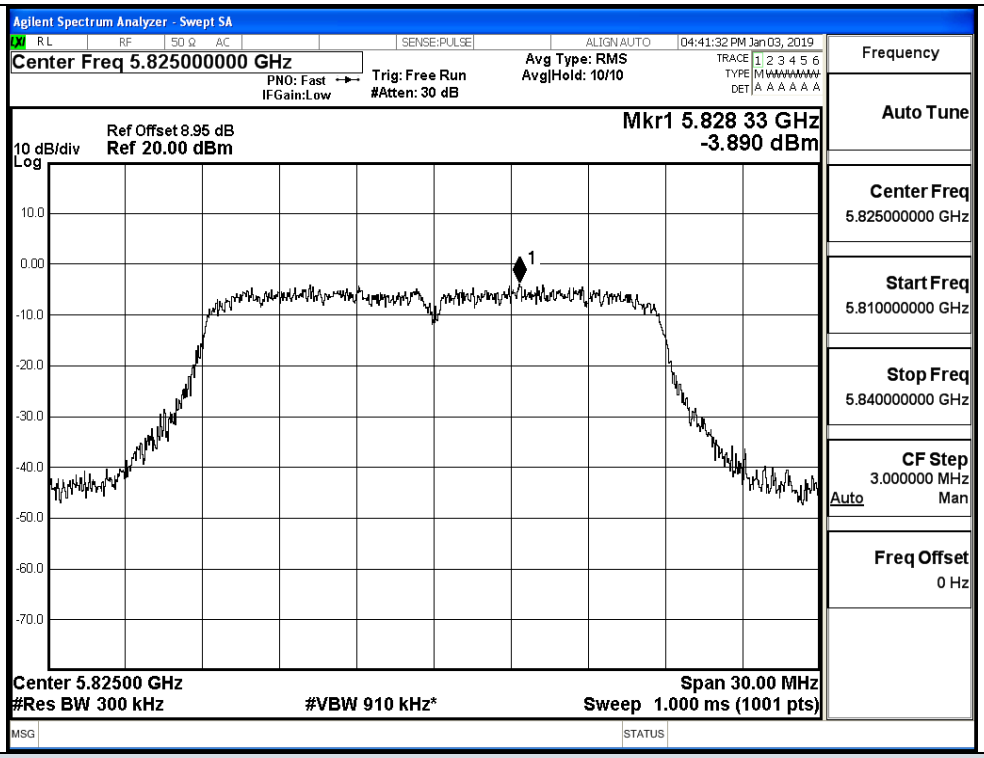
IEEE 802.11n HT40 / Channel 159 / 5795 MHz



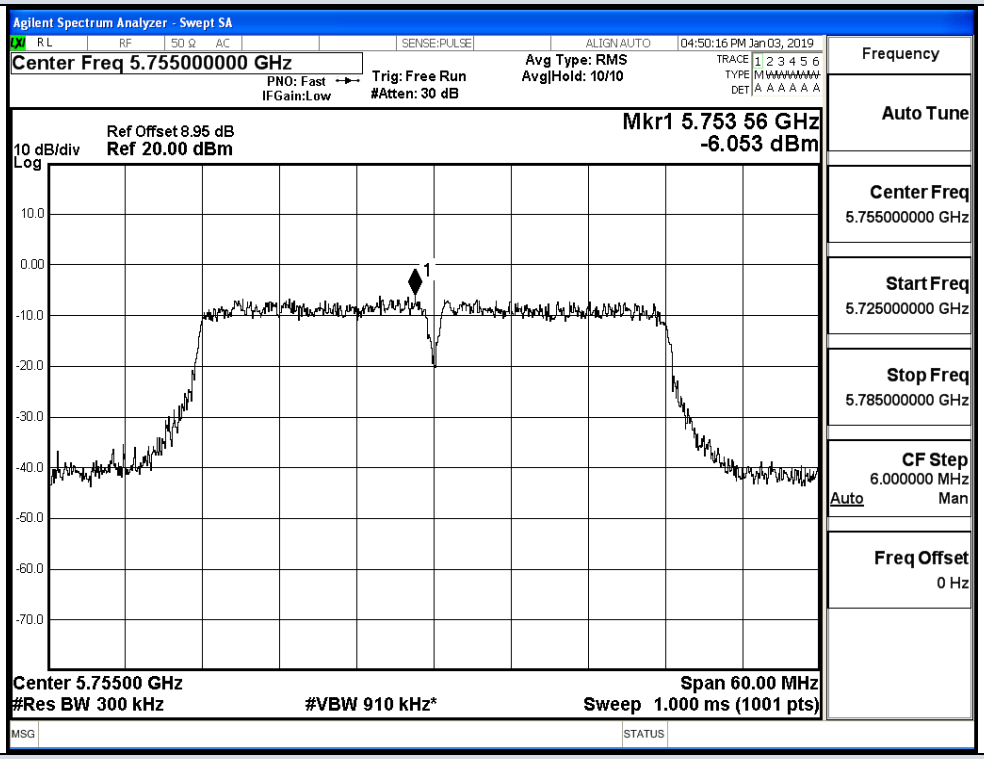
IEEE 802.11ac VHT20 / Channel 149 / 5745 MHz



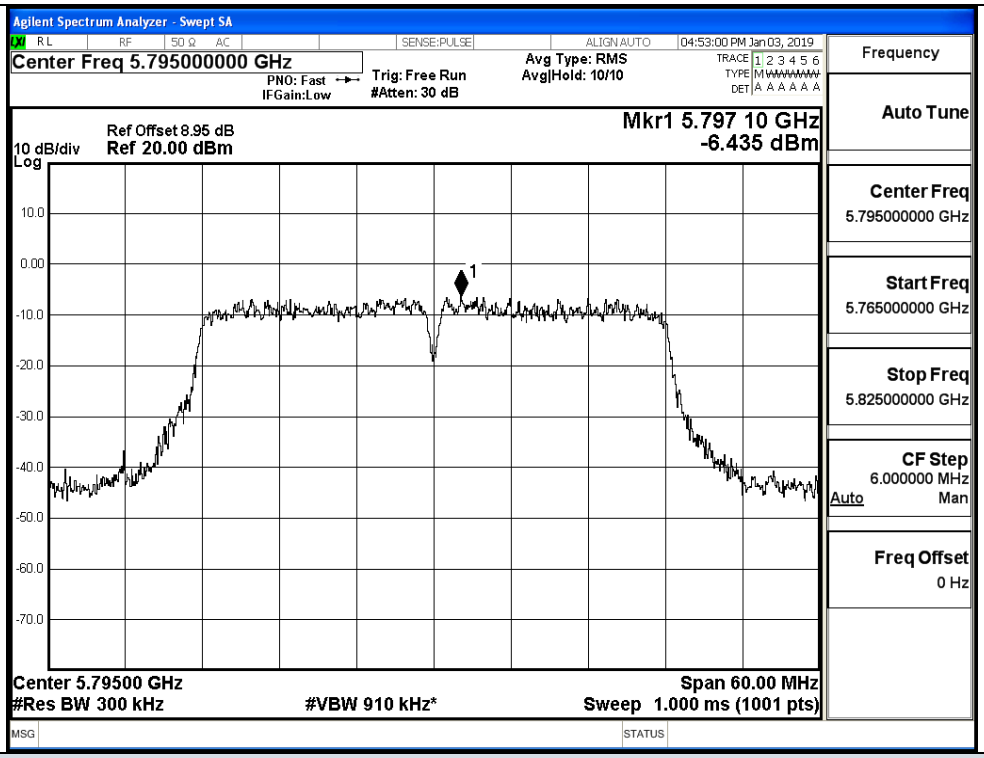
IEEE 802.11ac VHT20 / Channel 157 / 5785 MHz



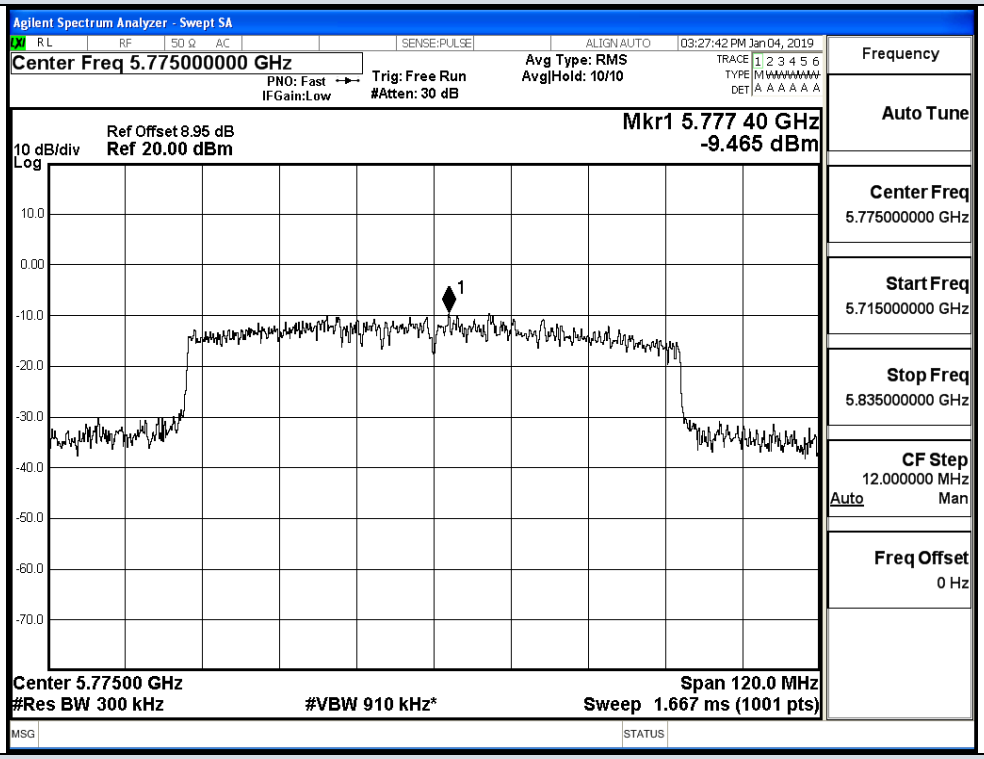
IEEE 802.11ac VHT20 / Channel 165 / 5825 MHz



IEEE 802.11ac VHT40 / Channel 151 / 5755 MHz



IEEE 802.11ac VHT40 / Channel 159 / 5795 MHz

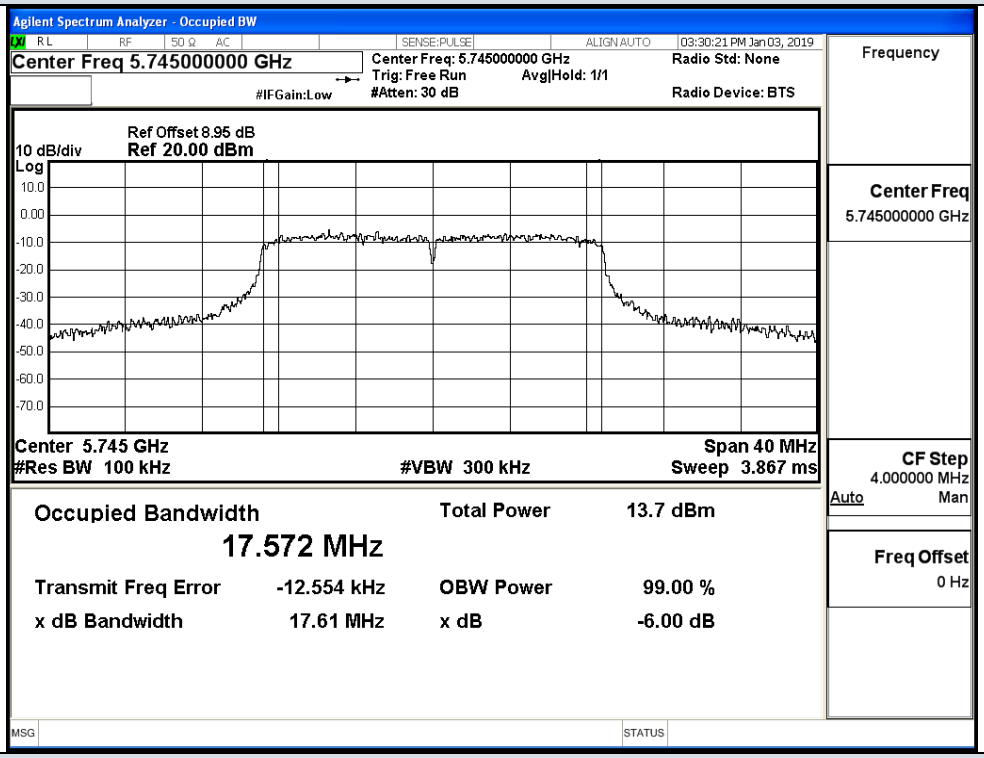


IEEE 802.11ac VHT80 / Channel 155/ 5775 MHz

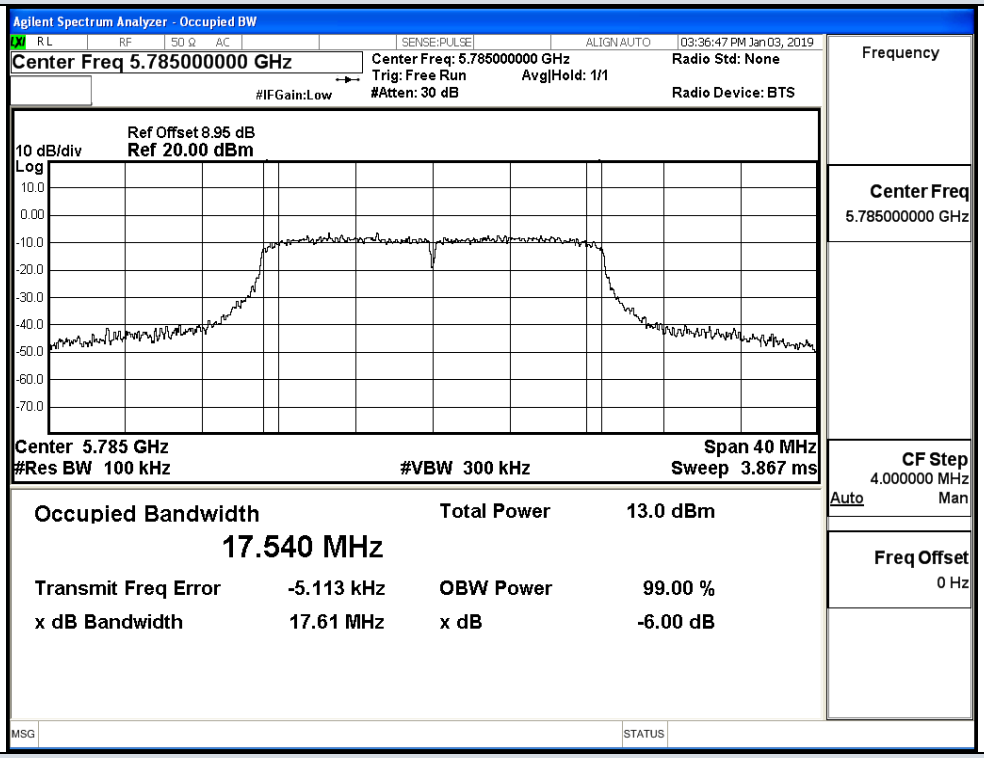
E.4 Emission Bandwidth

Test Mode	Channel	Frequency (MHz)	6dB Bandwidth (MHz)	Limit (MHz)
11A	149	5745	17.61	>=0.5
	157	5785	17.61	
	165	5825	17.64	
11N20 SISO	149	5745	17.61	>=0.5
	157	5785	17.63	
	165	5825	17.62	
11N40 SISO	151	5755	36.48	>=0.5
	159	5795	36.43	
11AC20SISO	149	5745	17.63	>=0.5
	157	5785	17.62	
	165	5825	17.63	
11AC40SISO	151	5755	36.47	>=0.5
	159	5795	36.45	
11AC80SISO	155	5775	76.42	>=0.5

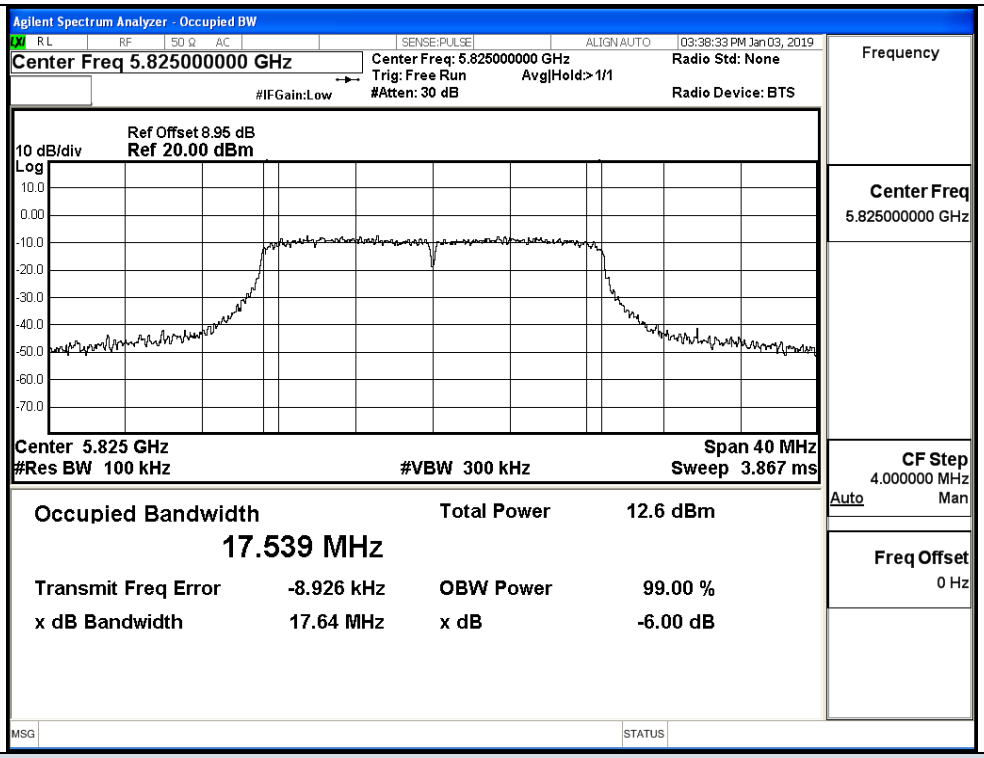
6dB Bandwidth



IEEE 802.11a / Channel 149 / 5745 MHz

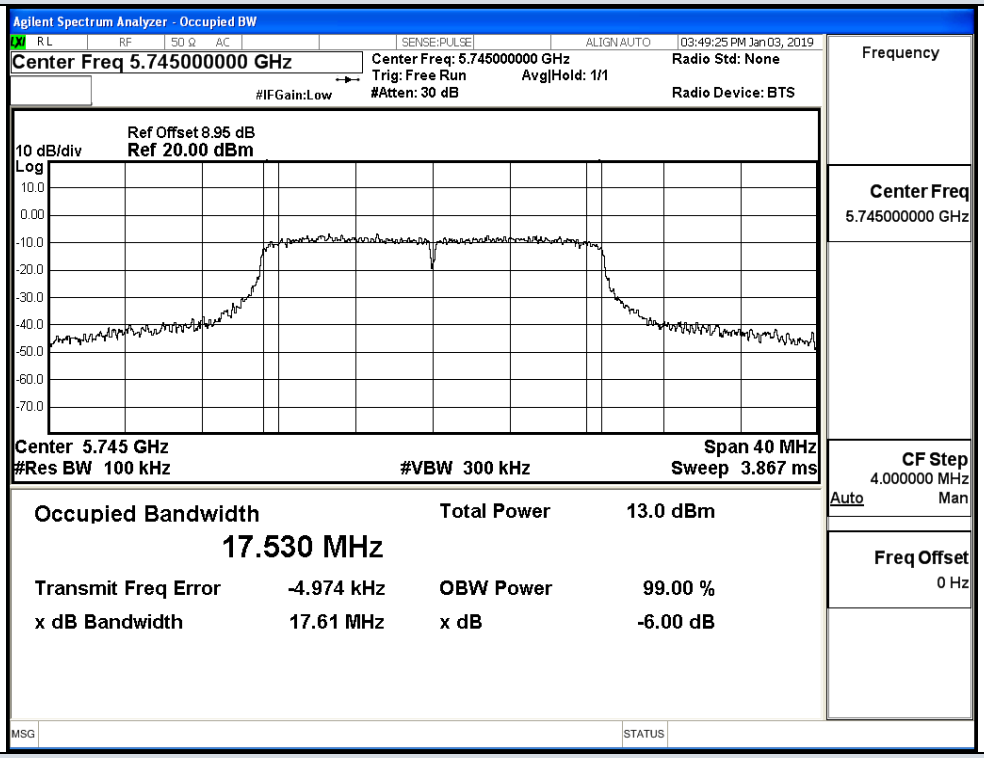


IEEE 802.11a / Channel 157 / 5785 MHz

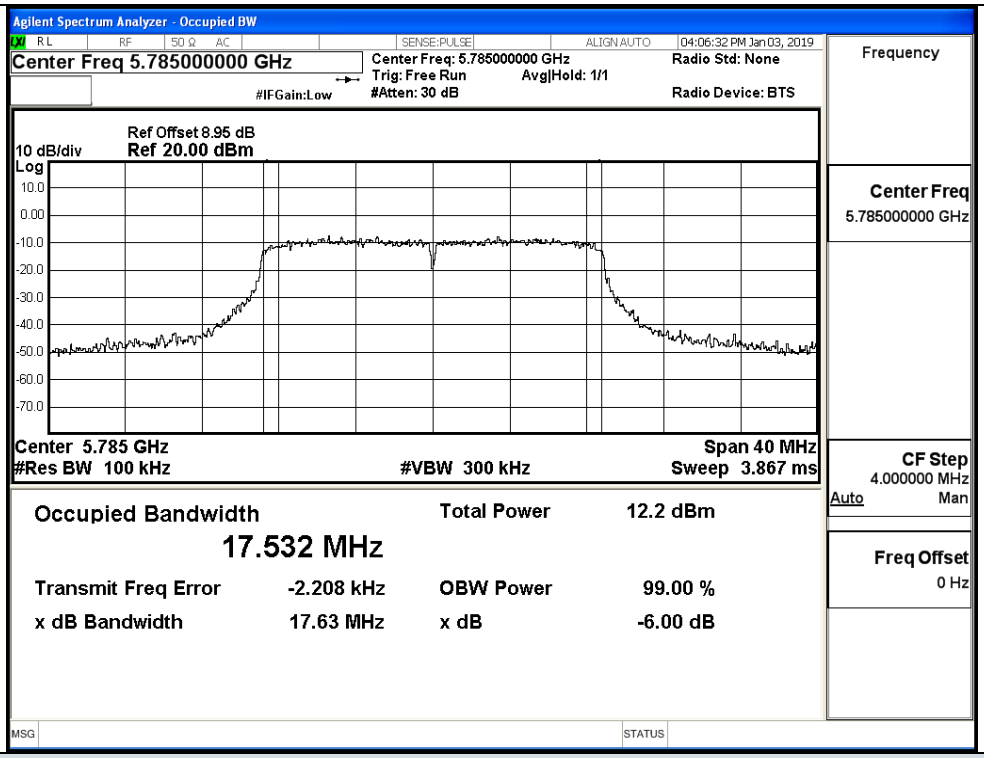


IEEE 802.11a / Channel 165 / 5825 MHz

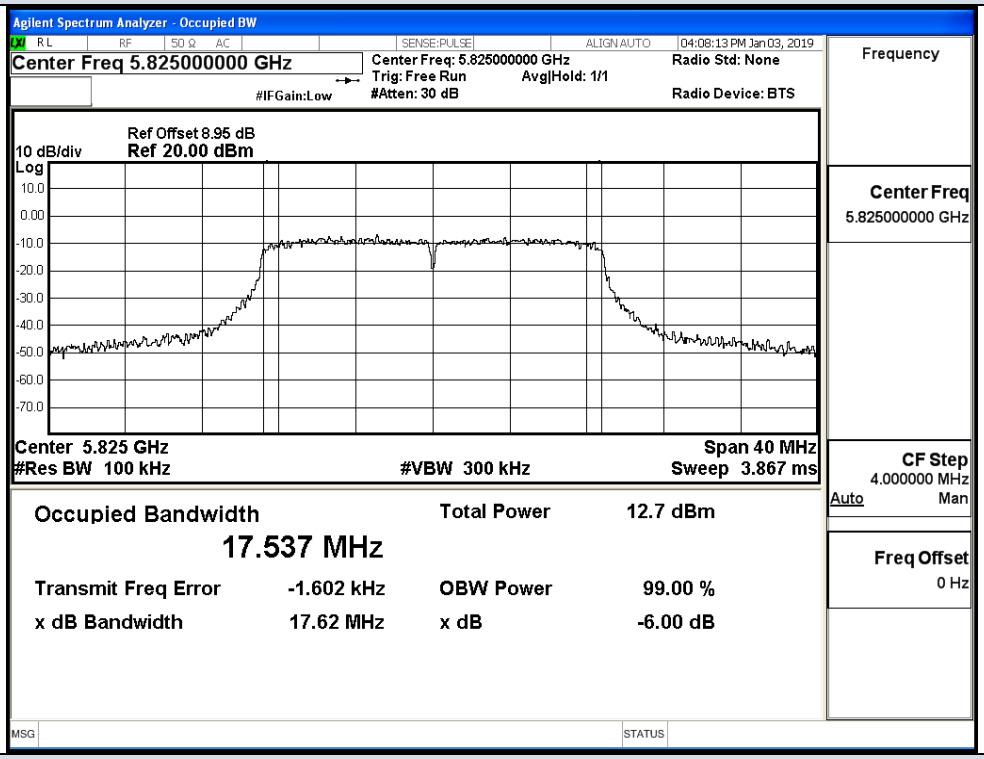
6dB Bandwidth



IEEE 802.11n HT20 / Channel 149 / 5745 MHz

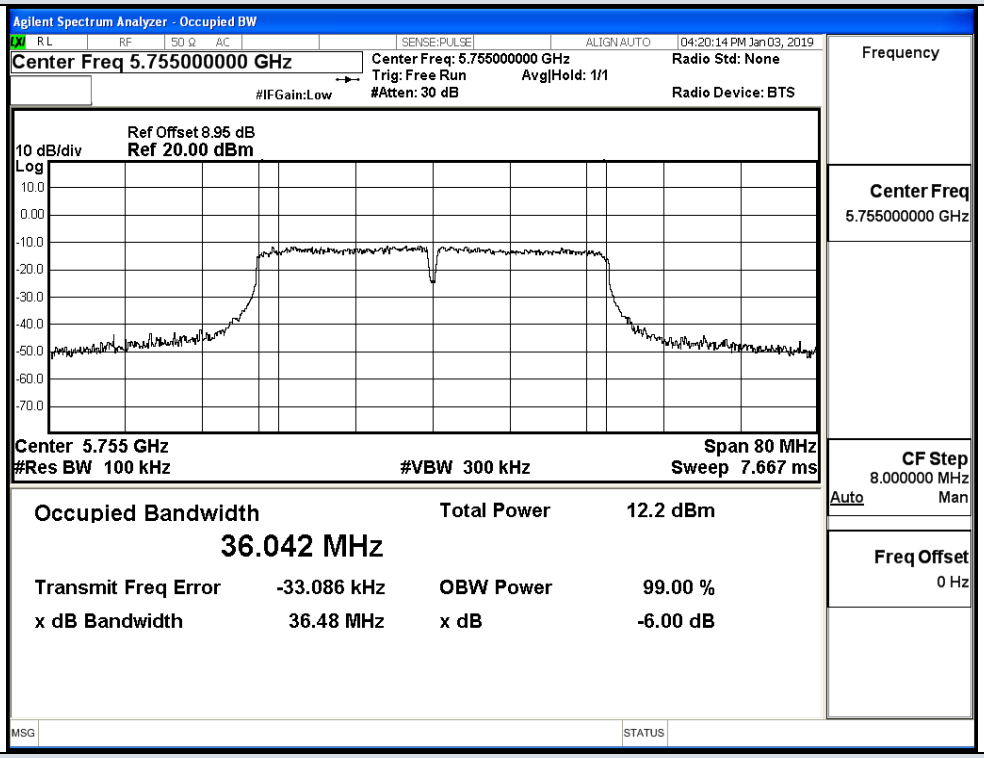


IEEE 802.11n HT20 / Channel 157 / 5785 MHz

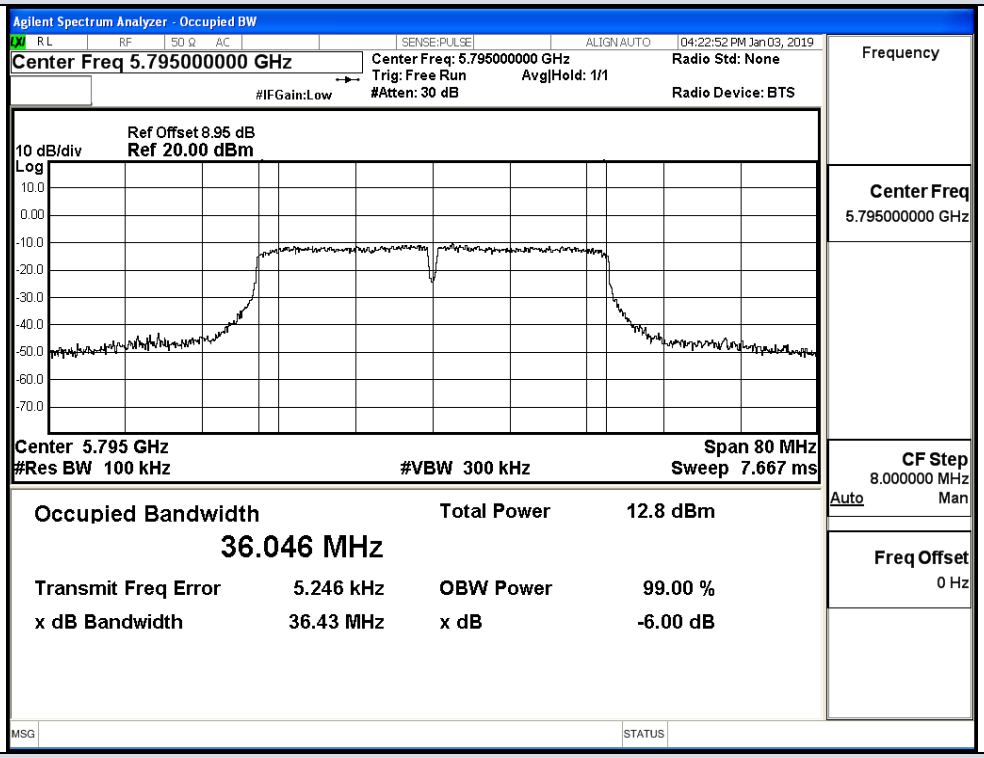


IEEE 802.11n HT20 / Channel 165 / 5825 MHz

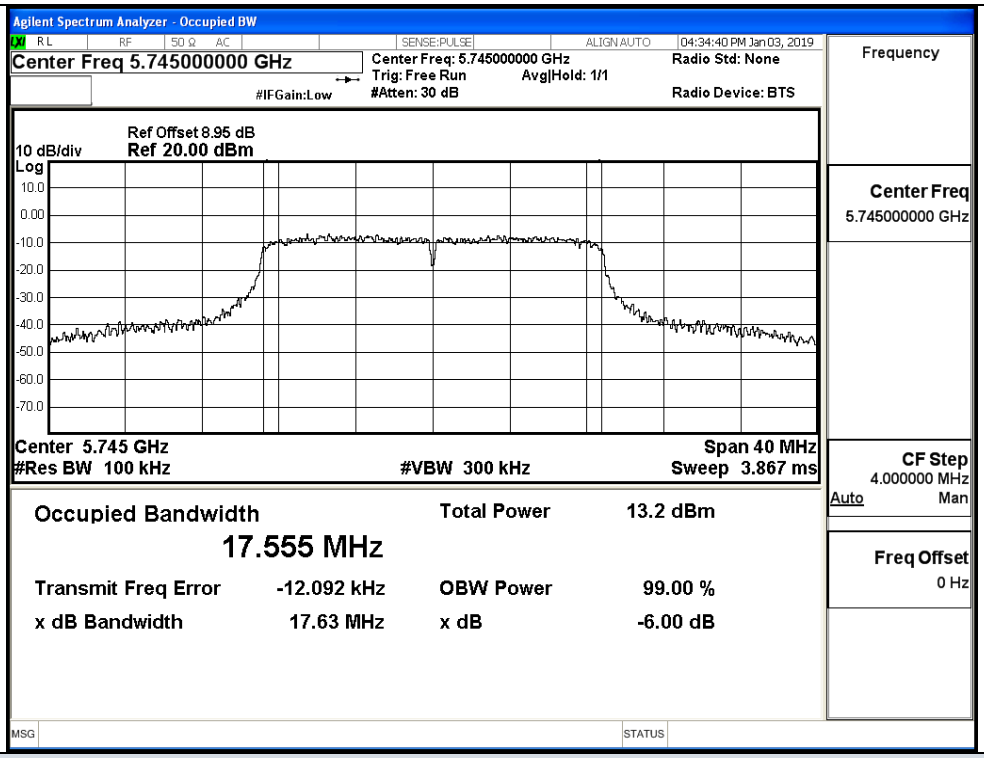
6dB Bandwidth



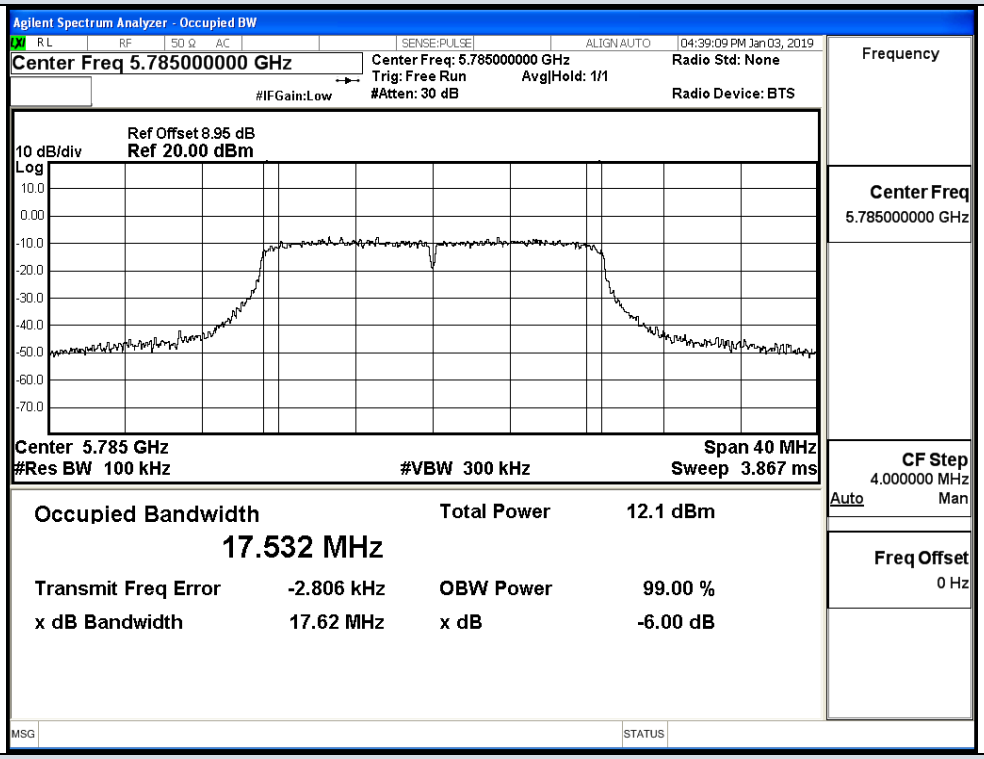
IEEE 802.11n HT40 / Channel 151 / 5755 MHz



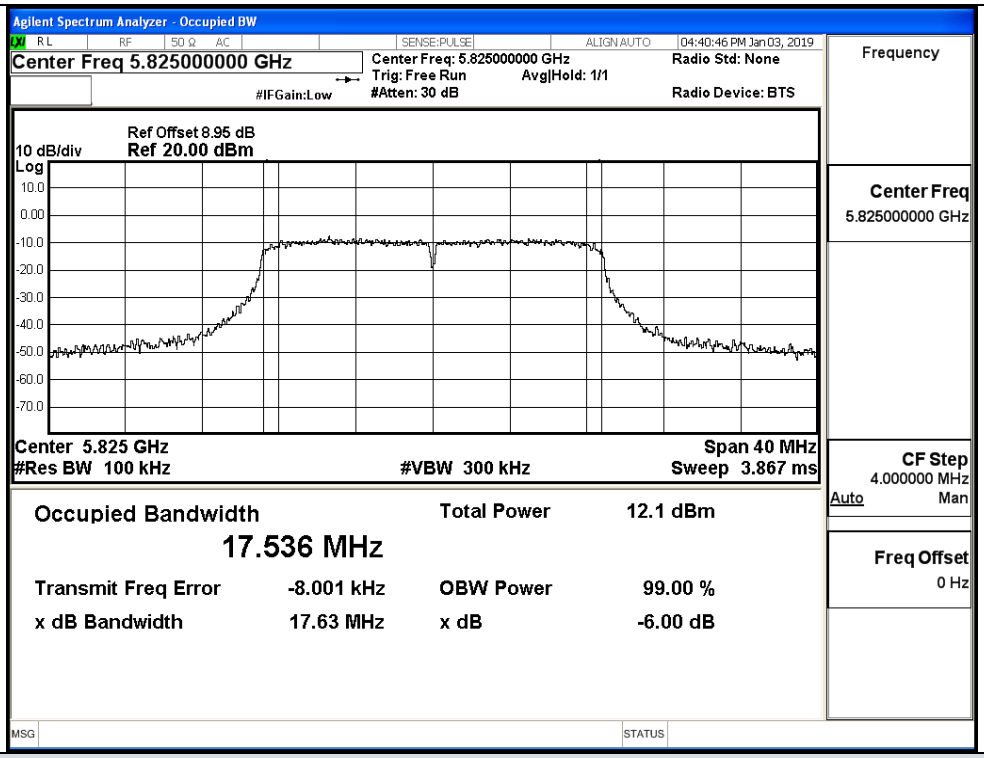
IEEE 802.11n HT40 / Channel 159 / 5795 MHz



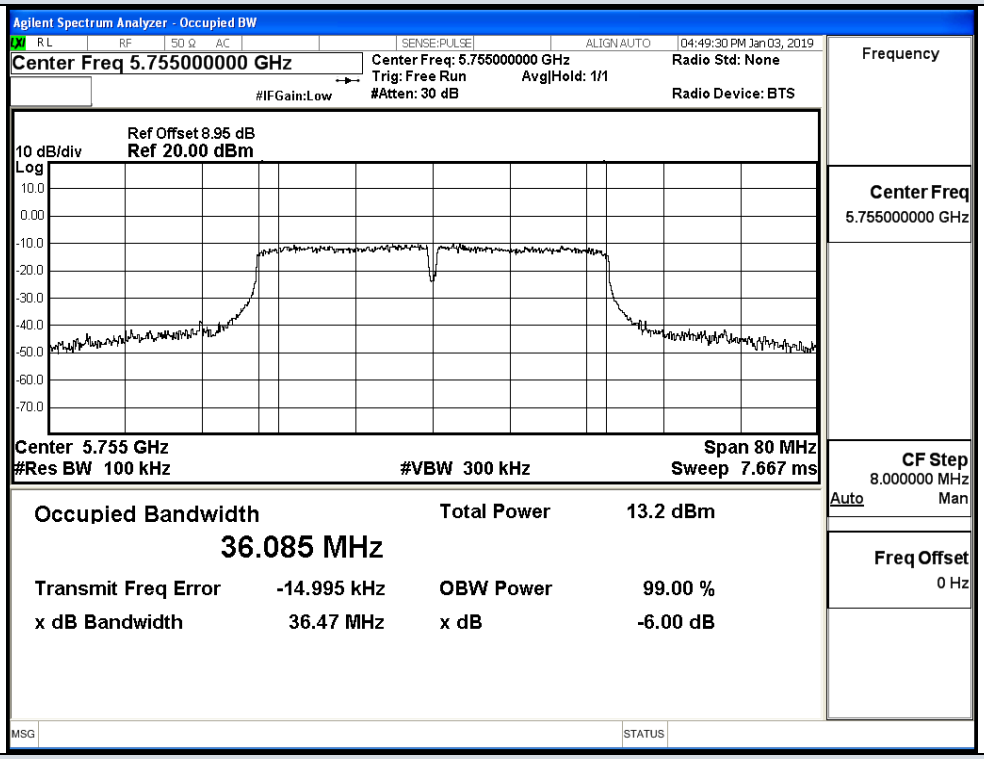
IEEE 802.11ac VHT20 / Channel 149 / 5745 MHz



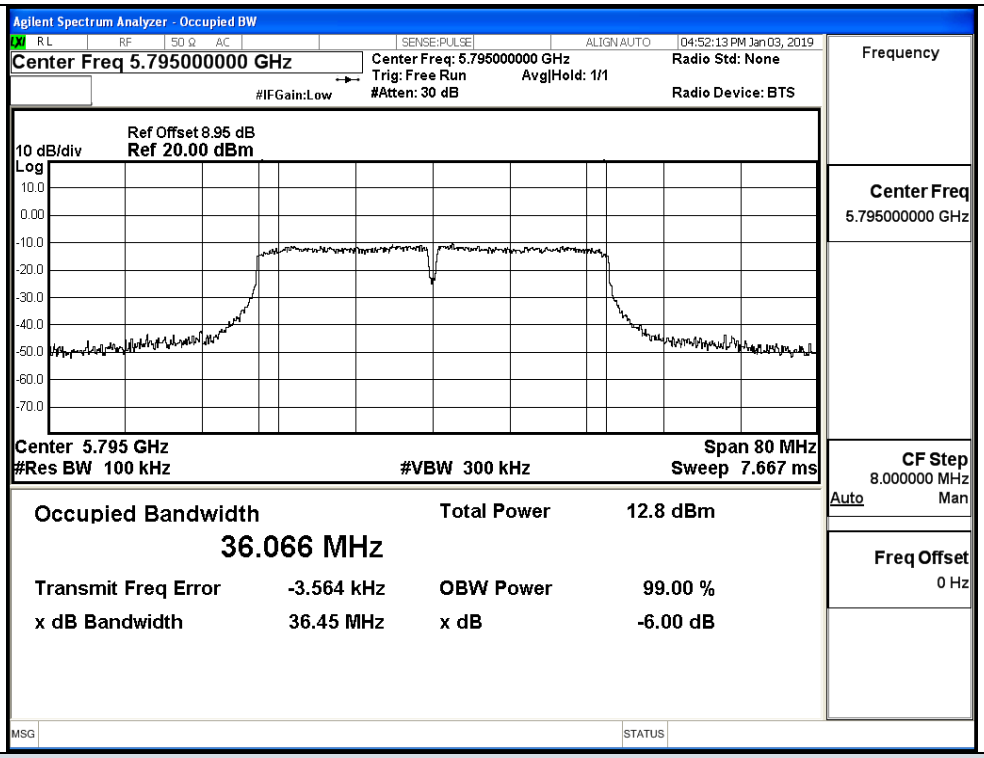
IEEE 802.11ac VHT20 / Channel 157/ 5785 MHz



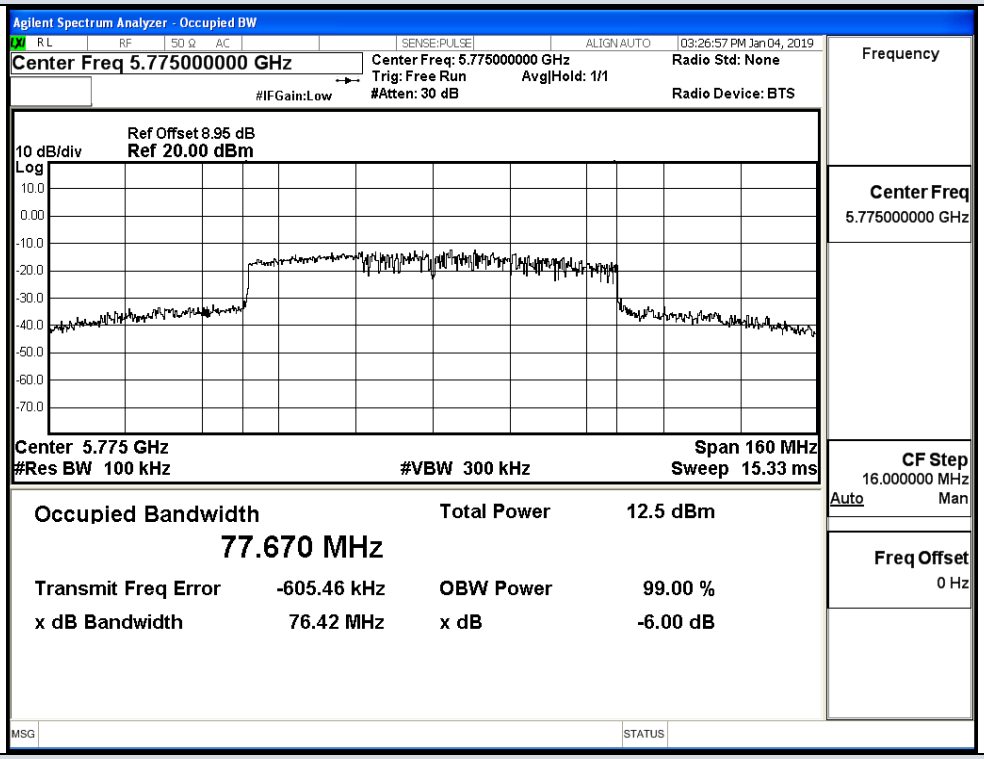
IEEE 802.11ac VHT20 / Channel 165 / 5825 MHz



IEEE 802.11ac VHT40 / Channel 151 / 5755 MHz



IEEE 802.11ac VHT40 / Channel 159 / 5795 MHz

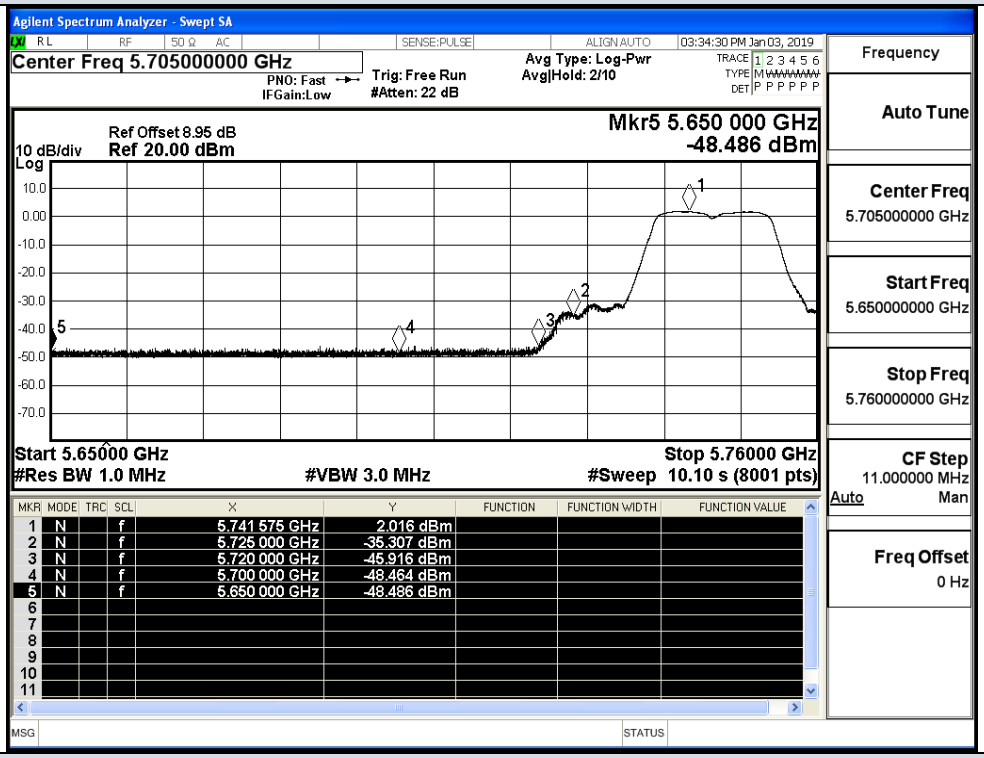


IEEE 802.11ac VHT80 / Channel 155 / 5775 MHz

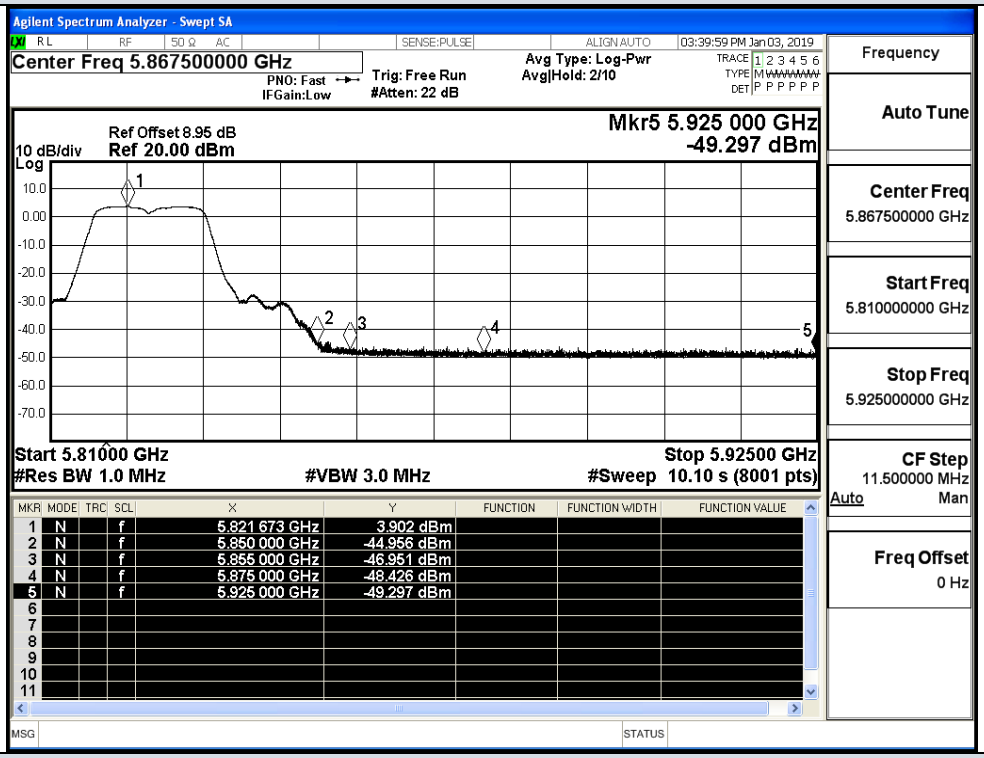
E.5 Undesirable Emissions Measurement

Test Mode	Channel	Frequency (MHz)	Conducted Power (dBm)	Antenna Gain (dBi)	EIRP (dBm/MHz)	Detector	Limit (dBm/MHz)
11A	149	5650.0	-48.49	2.00	-46.49	Peak	-27.0
		5700.0	-48.46	2.00	-46.46	Peak	10.0
		5720.0	-45.92	2.00	-43.92	Peak	15.6
		5725.0	-35.31	2.00	-33.31	Peak	27.0
	165	5850.0	-44.96	2.00	-42.96	Peak	27.0
		5855.0	-46.95	2.00	-44.95	Peak	15.6
		5875.0	-48.43	2.00	-46.43	Peak	10.0
		5925.0	-49.30	2.00	-47.30	Peak	-27.0
11N20 SISO	149	5650.0	-48.61	2.00	-46.61	Peak	-27.0
		5700.0	-47.76	2.00	-45.76	Peak	10.0
		5720.0	-41.96	2.00	-39.96	Peak	15.6
		5725.0	-29.12	2.00	-27.12	Peak	27.0
	165	5850.0	-44.10	2.00	-42.10	Peak	27.0
		5855.0	-48.50	2.00	-46.50	Peak	15.6
		5875.0	-48.78	2.00	-46.78	Peak	10.0
		5925.0	-49.15	2.00	-47.15	Peak	-27.0
11N40 SISO	151	5650.0	-49.20	2.00	-47.20	Peak	-27.0
		5700.0	-48.90	2.00	-46.90	Peak	10.0
		5720.0	-35.89	2.00	-33.89	Peak	15.6
		5725.0	-33.86	2.00	-31.86	Peak	27.0
	159	5850.0	-46.43	2.00	-44.43	Peak	27.0
		5855.0	-49.36	2.00	-47.36	Peak	15.6
		5875.0	-49.33	2.00	-47.33	Peak	10.0
		5925.0	-49.70	2.00	-47.70	Peak	-27.0
11AC20 SISO	149	5650.0	-49.66	2.00	-47.66	Peak	-27.0
		5700.0	-47.87	2.00	-45.87	Peak	10.0
		5720.0	-44.33	2.00	-42.33	Peak	15.6
		5725.0	-31.77	2.00	-29.77	Peak	27.0
	165	5850.0	-44.10	2.00	-42.10	Peak	27.0
		5855.0	-48.43	2.00	-46.43	Peak	15.6
		5875.0	-47.56	2.00	-45.56	Peak	10.0
		5925.0	-49.39	2.00	-47.39	Peak	-27.0
11AC40 SISO	151	5650.0	-48.55	2.00	-46.55	Peak	-27.0
		5700.0	-47.86	2.00	-45.86	Peak	10.0
		5720.0	-32.93	2.00	-30.93	Peak	15.6
		5725.0	-31.04	2.00	-29.04	Peak	27.0
	159	5850.0	-48.31	2.00	-46.31	Peak	27.0
		5855.0	-48.39	2.00	-46.39	Peak	15.6
		5875.0	-48.88	2.00	-46.88	Peak	10.0
		5925.0	-49.93	2.00	-47.93	Peak	-27.0
11AC80 SISO	151	5650.0	-45.41	2.00	-43.41	Peak	-27.0
		5700.0	-45.34	2.00	-43.34	Peak	10.0
		5720.0	-47.46	2.00	-45.46	Peak	15.6
		5725.0	-49.95	2.00	-47.95	Peak	27.0
	159	5850.0	-45.41	2.00	-43.41	Peak	27.0
		5855.0	-45.34	2.00	-43.34	Peak	15.6
		5875.0	-47.46	2.00	-45.46	Peak	10.0
		5925.0	-49.95	2.00	-47.95	Peak	-27.0

Undesirable Emissions Measurement

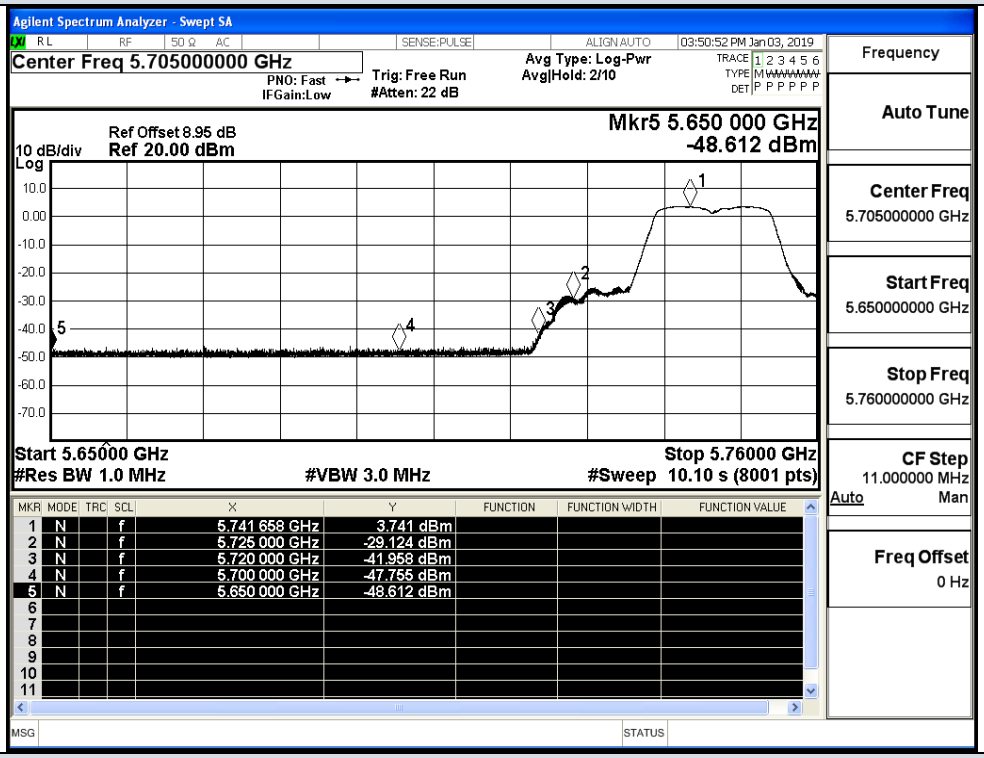


IEEE 802.11a / Channel 149 / 5745 MHz / Peak

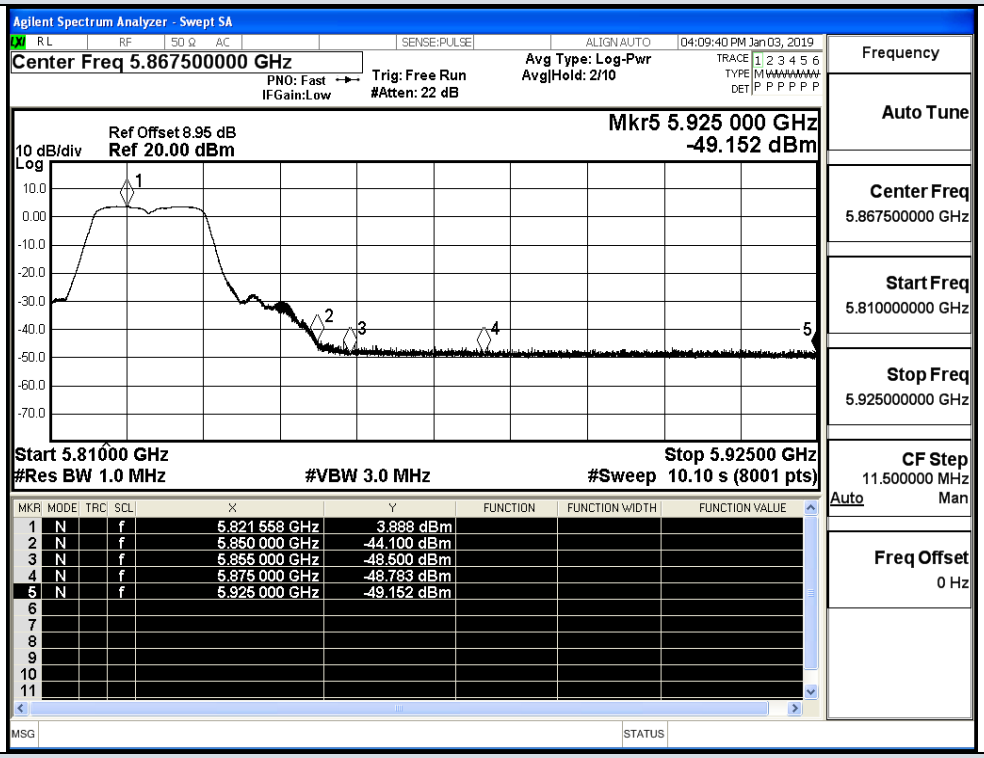


IEEE 802.11a / Channel 165 / 5825 MHz / Peak

Undesirable Emissions Measurement

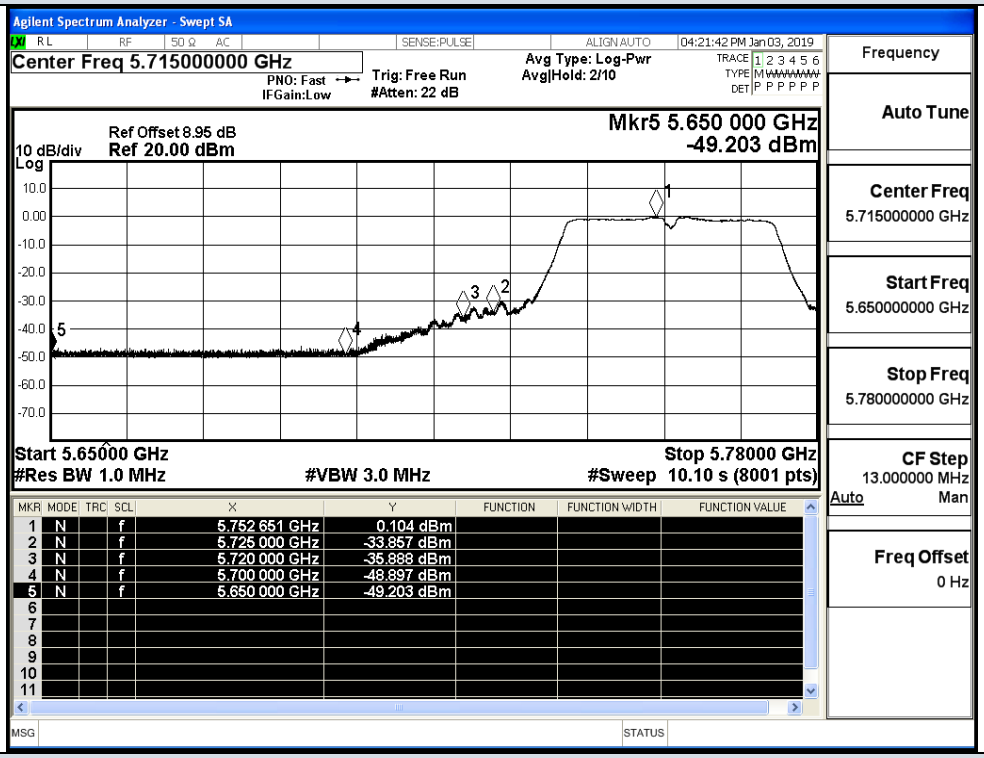


IEEE 802.11n HT20 / Channel 149 / 5745 MHz / Peak

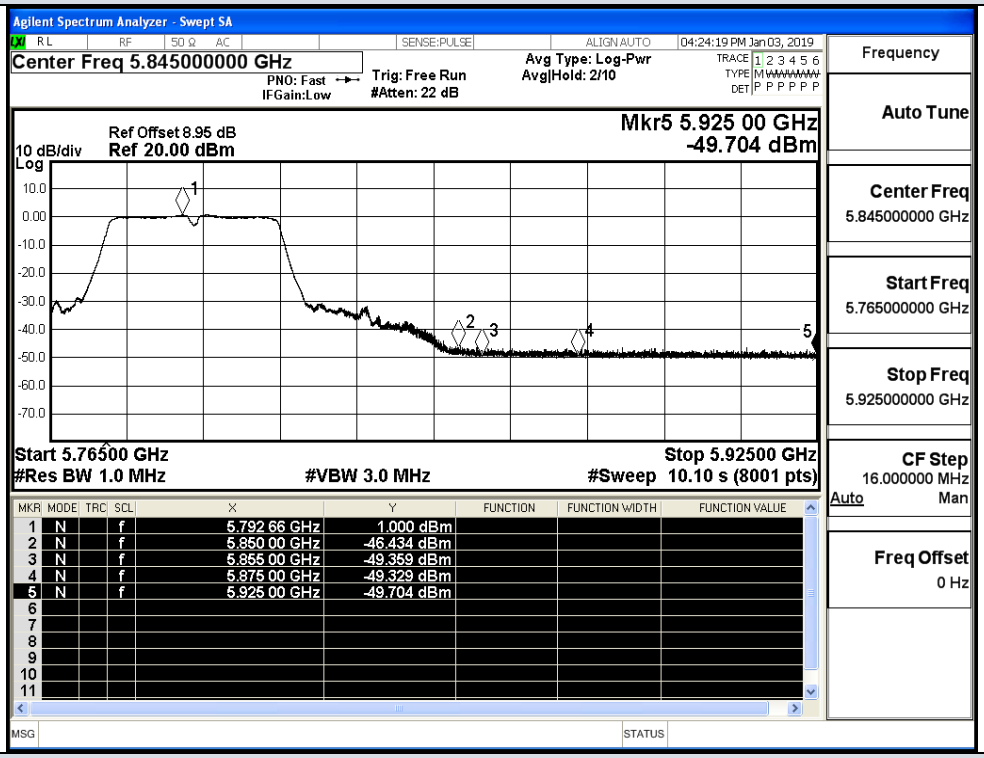


IEEE 802.11n HT20 / Channel 165 / 5825 MHz / Peak

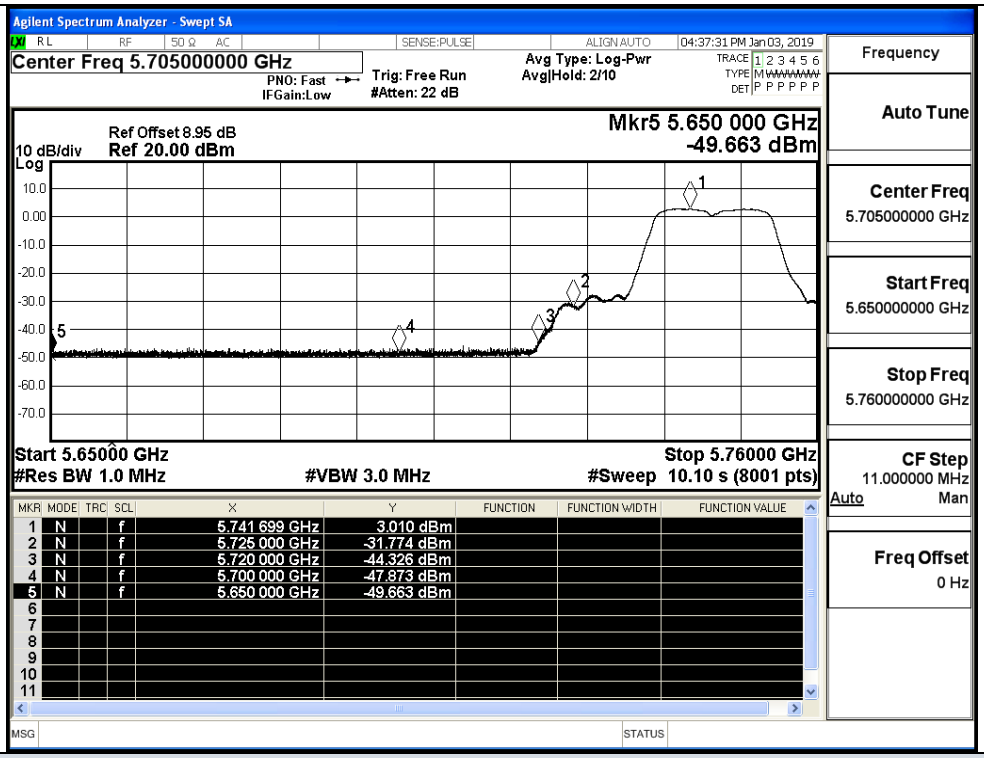
Undesirable Emissions Measurement



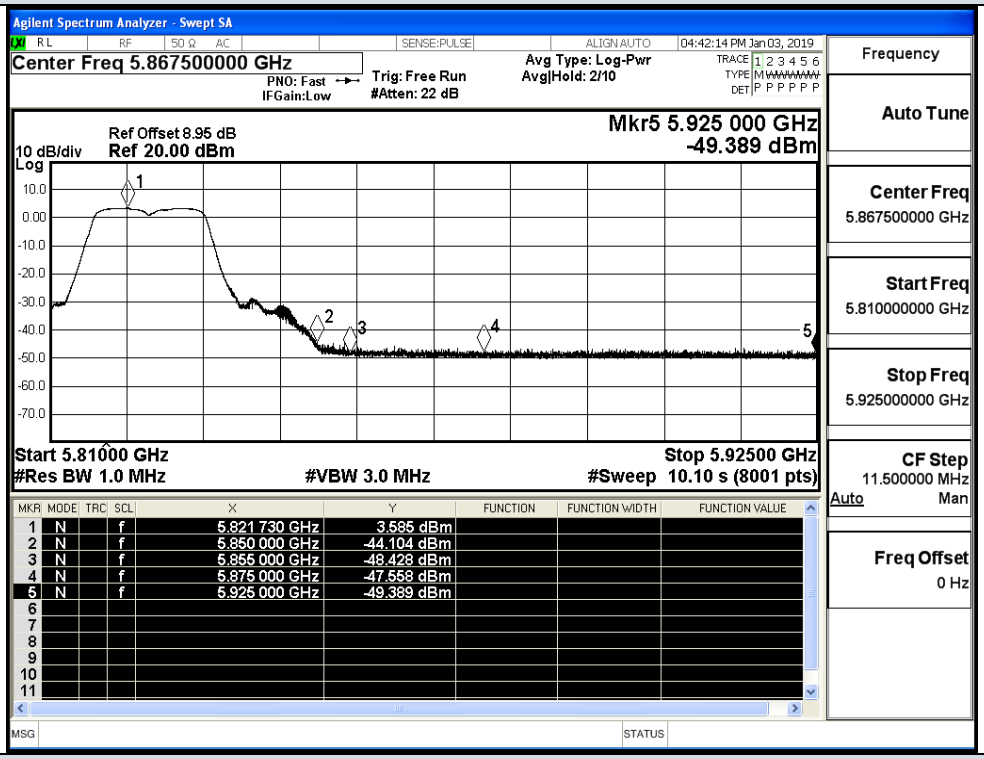
IEEE 802.11n HT40 / Channel 151 / 5755 MHz / Peak



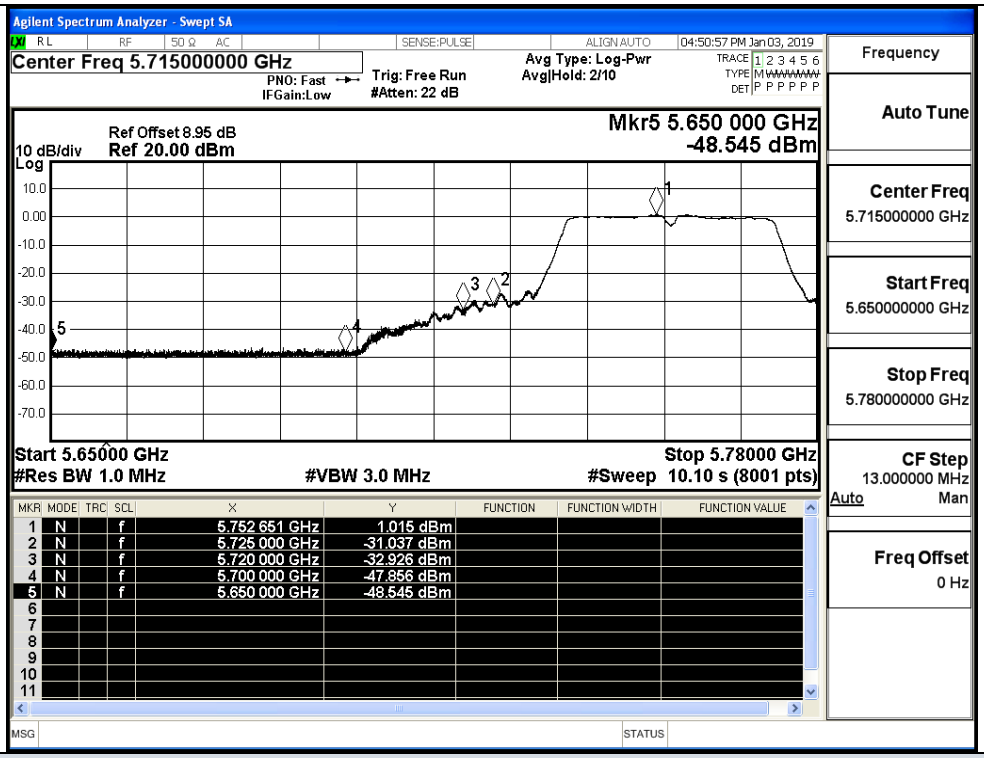
IEEE 802.11n HT40 / Channel 159 / 5795 MHz / Peak



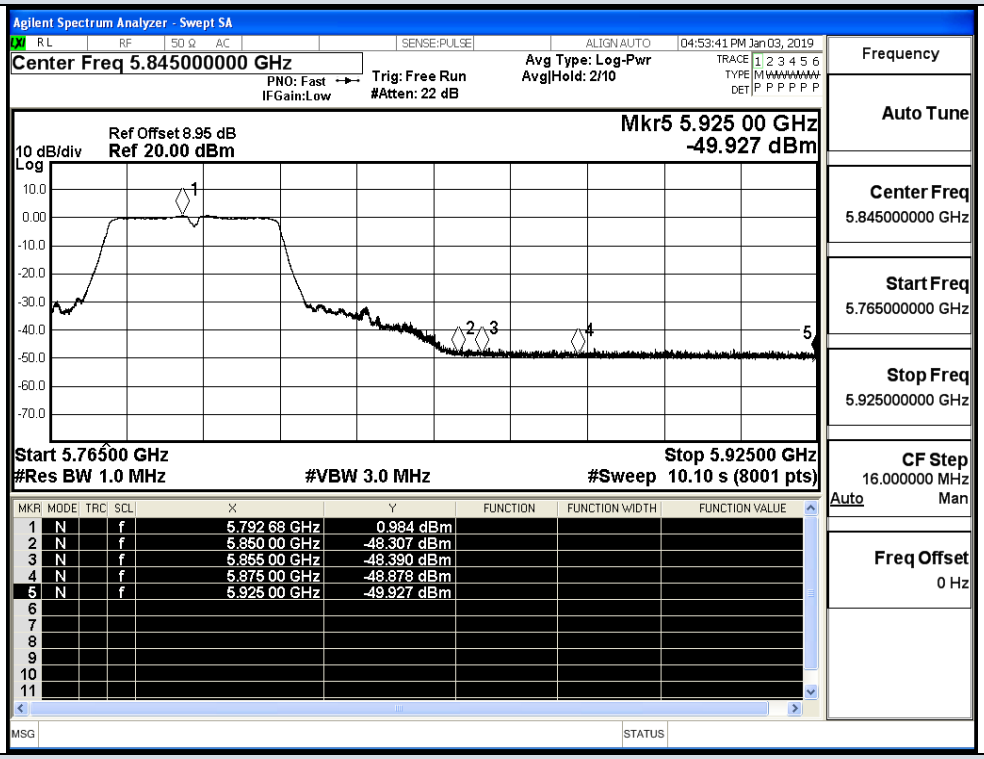
IEEE 802.11ac VHT20 / Channel 149 / 5745 MHz / Peak



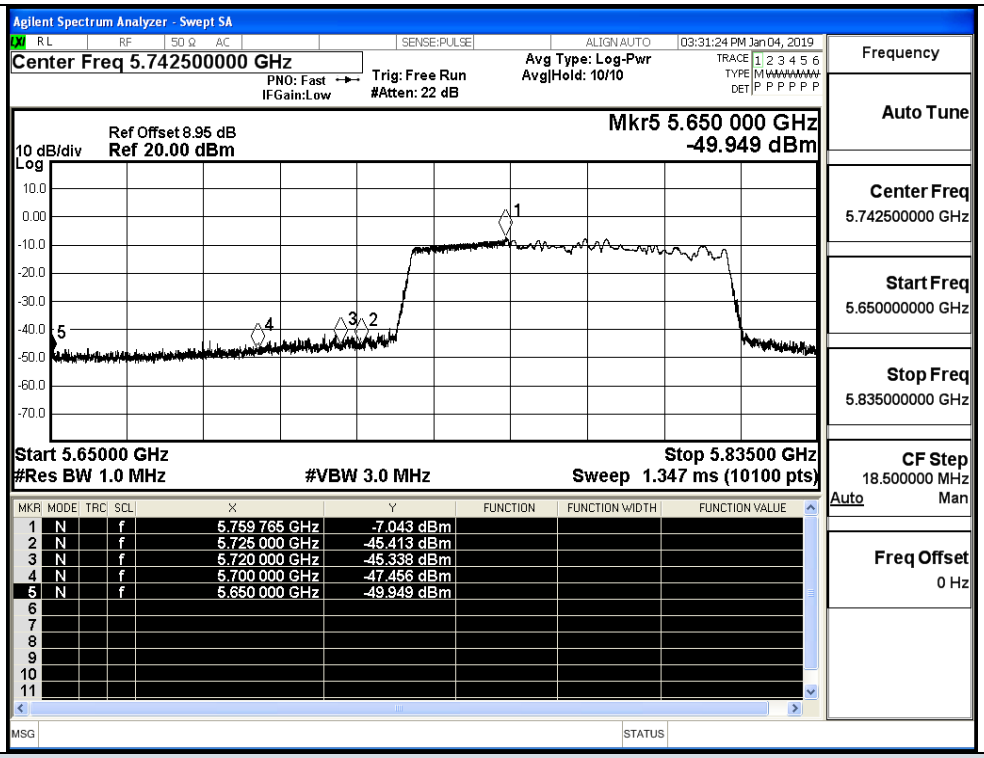
IEEE 802.11ac VHT20 / Channel 165 / 5825 MHz / Peak



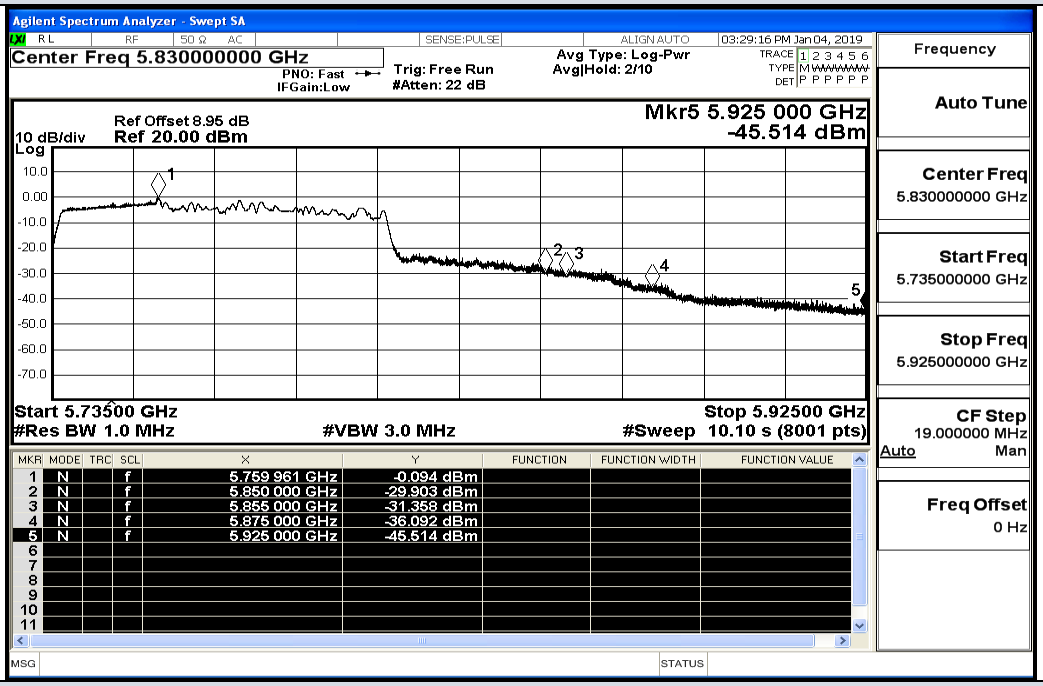
IEEE 802.11ac VHT40 / Channel 151 / 5755 MHz / Peak



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



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



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