

Appendix B

RF Test Data for 5.8G WLAN (Conducted Measurement)

Product Name: Wireless Monitor

Trade Mark: N/A

Test Model: FT6/FR6

Environmental Conditions

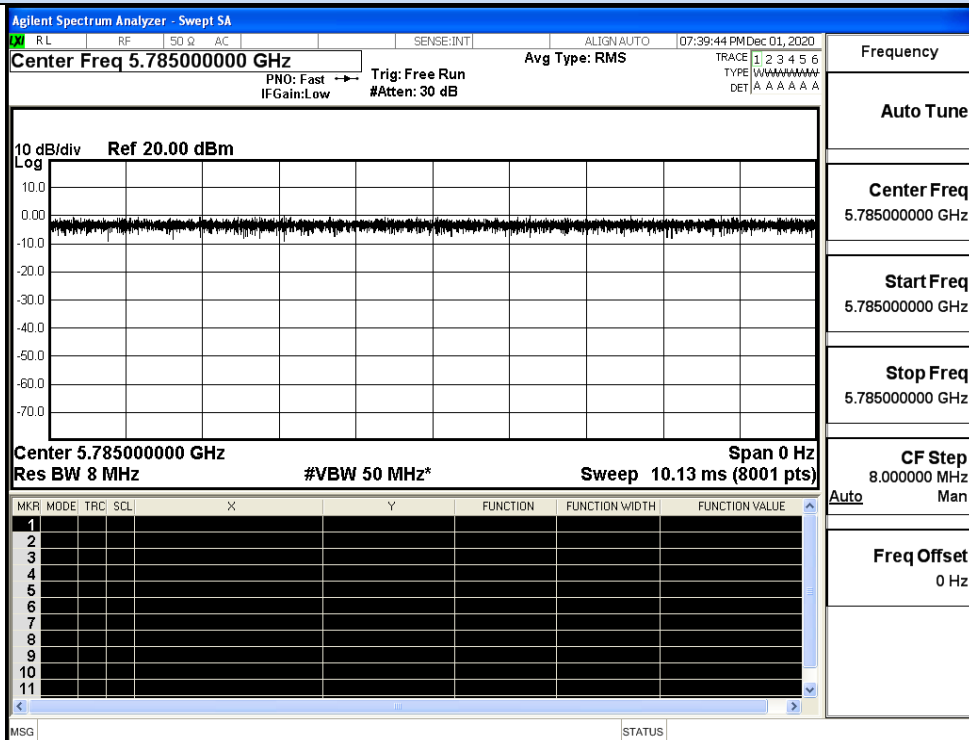
Temperature:	24.6° C
Relative Humidity:	54.1%
ATM Pressure:	100.0 kPa
Test Engineer:	Ben Jin
Supervised by:	Li Huan

B.1 Duty Cycle

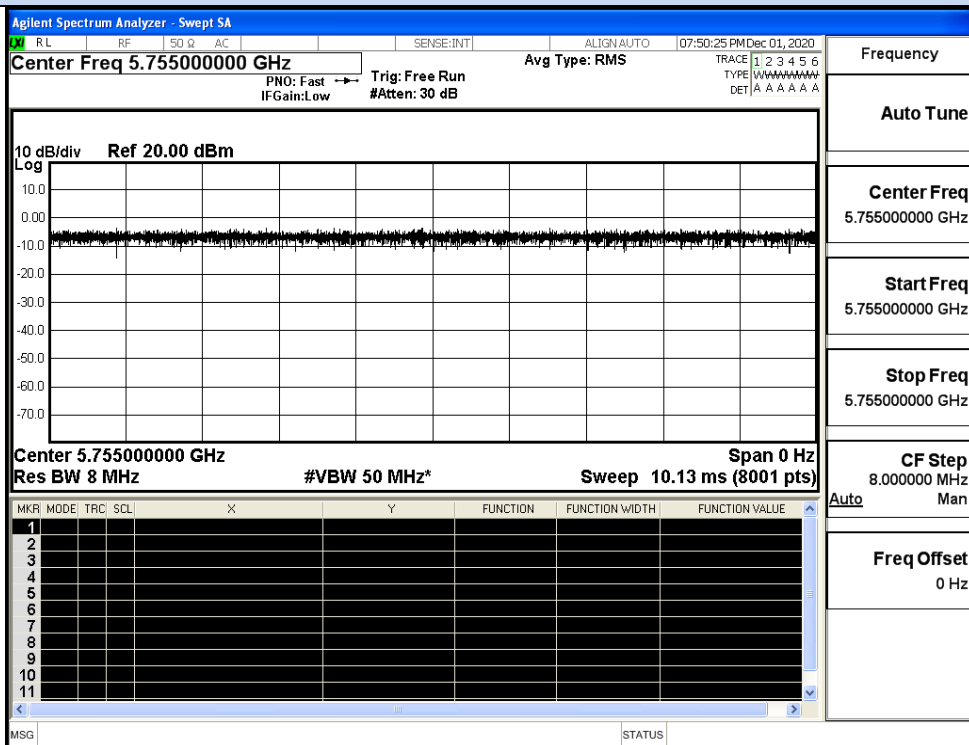
ANT0

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

On Time and Duty Cycle



IEEE 802.11n HT20

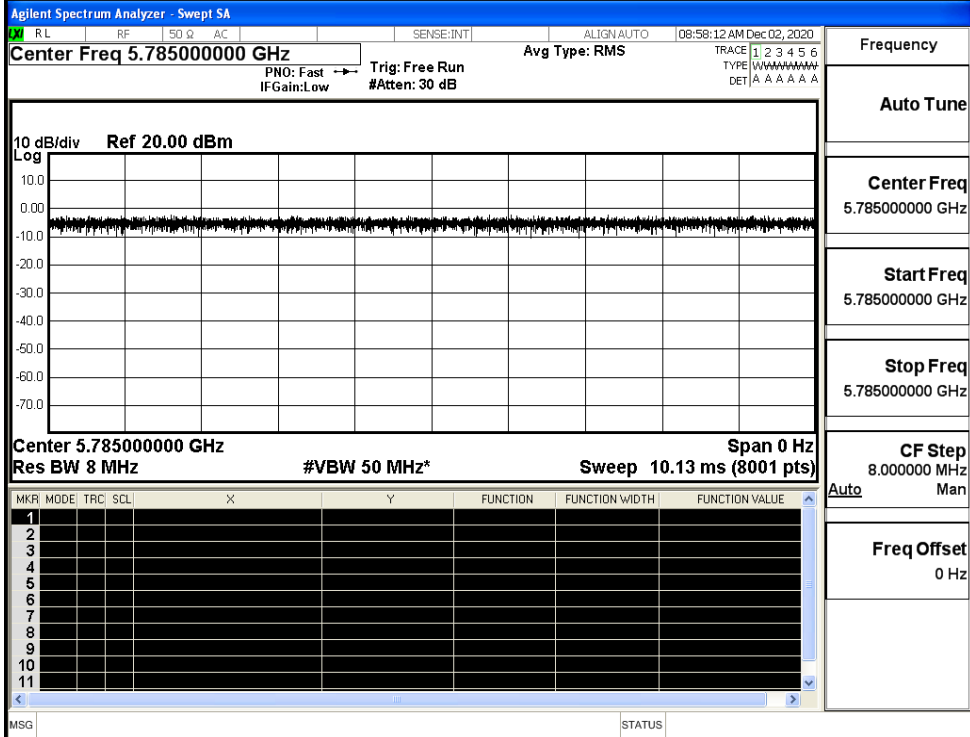


IEEE 802.11n HT40

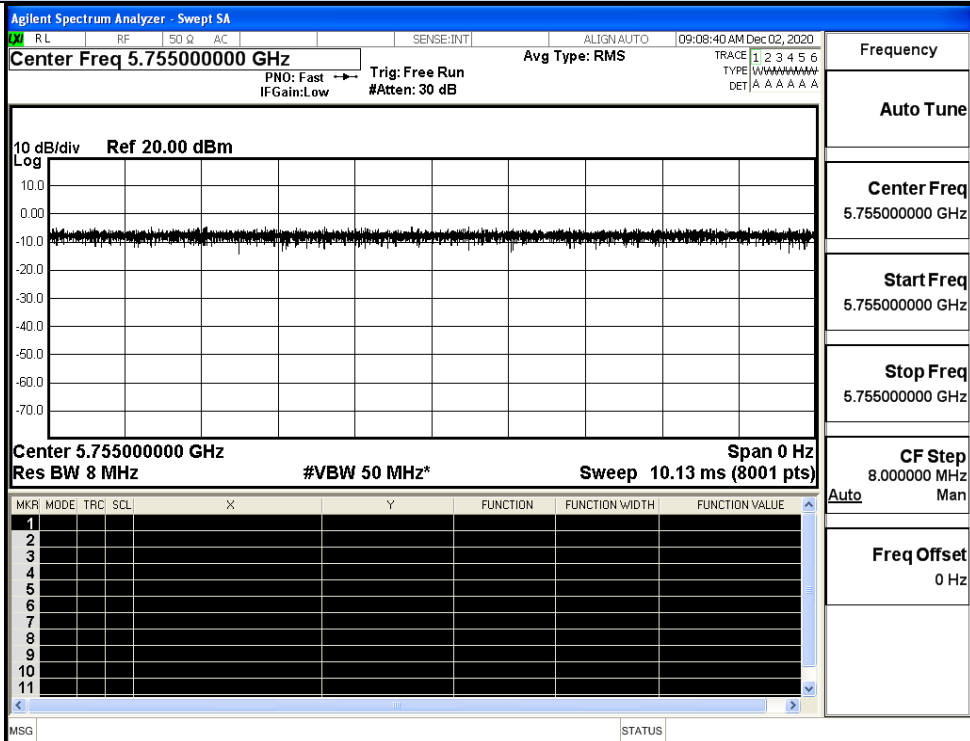
ANT1

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

On Time and Duty Cycle



IEEE 802.11n HT20



IEEE 802.11n HT40

B.2 Maximum Conduct Output Power**ANT0**

Test Mode	Channel	Frequency (MHz)	AVG Conducted Power (dBm)	Duty Cycle Factor(dB)	Report Conducted Power(dBm)	Limit (dBm)	Verdict
11N20 SISO	149	5745	13.85	0	13.85	30	Pass
	157	5785	13.55	0	13.55		Pass
	165	5825	13.12	0	13.12		Pass
11N40 SISO	151	5755	14.38	0	14.38	30	Pass
	159	5795	13.91	0	13.91		Pass

ANT1

Test Mode	Channel	Frequency (MHz)	AVG Conducted Power (dBm)	Duty Cycle Factor(dB)	Report Conducted Power(dBm)	Limit (dBm)	Verdict
11N20 SISO	149	5745	12.35	0	12.35	30	Pass
	157	5785	11.53	0	11.53		Pass
	165	5825	11.81	0	11.81		Pass
11N40 SISO	151	5755	12.79	0	12.79	30	Pass
	159	5795	12.97	0	12.97		Pass

Combined Ant0 and Ant1

Test Mode	Channel	Frequency (MHz)	AVG Conducted Power (dBm)			Limit (dBm)
			Ant0	Ant1	Sum	
11N20	149	5745	13.85	12.35	16.17	30
	157	5785	13.55	11.53	15.67	
	165	5825	13.12	11.81	15.52	
11N40	151	5755	14.38	12.79	16.67	30
	159	5795	13.91	12.97	16.48	

B.3 Power Spectral Density

ANT0

Test Mode	Channel	Frequency (MHz)	Power Density (dBm/300KHz)	Duty Cycle Factor (dB)	RBW Factor (dB)	Report Power Density (dBm/500KHz)	Limit (dBm/500KHz)	Verdict
11N20 SISO	149	5745	-1.29	0	2.218	0.93	30	Pass
	157	5785	-1.54	0	2.218	0.67		Pass
	165	5825	-1.60	0	2.218	0.62		Pass
11N40 SISO	151	5755	-3.57	0	2.218	-1.35	30	Pass
	159	5795	-4.04	0	2.218	-1.82		Pass

ANT1

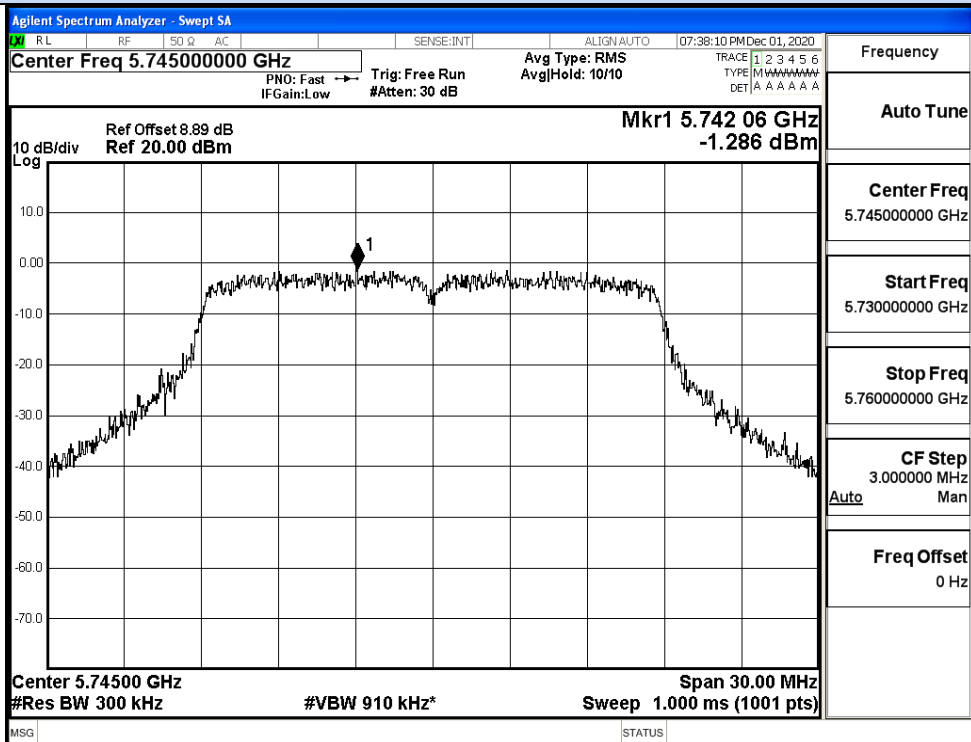
Test Mode	Channel	Frequency (MHz)	Power Density (dBm/300KHz)	Duty Cycle Factor (dB)	RBW Factor (dB)	Report Power Density (dBm/500KHz)	Limit (dBm/500KHz)	Verdict
11N20 SISO	149	5745	-2.55	0	2.218	-0.33	30	Pass
	157	5785	-2.43	0	2.218	-0.22		Pass
	165	5825	-3.96	0	2.218	-1.74		Pass
11N40 SISO	151	5755	-5.40	0	2.218	-3.18	30	Pass
	159	5795	-5.18	0	2.218	-2.96		Pass

Combined Ant0 and Ant1

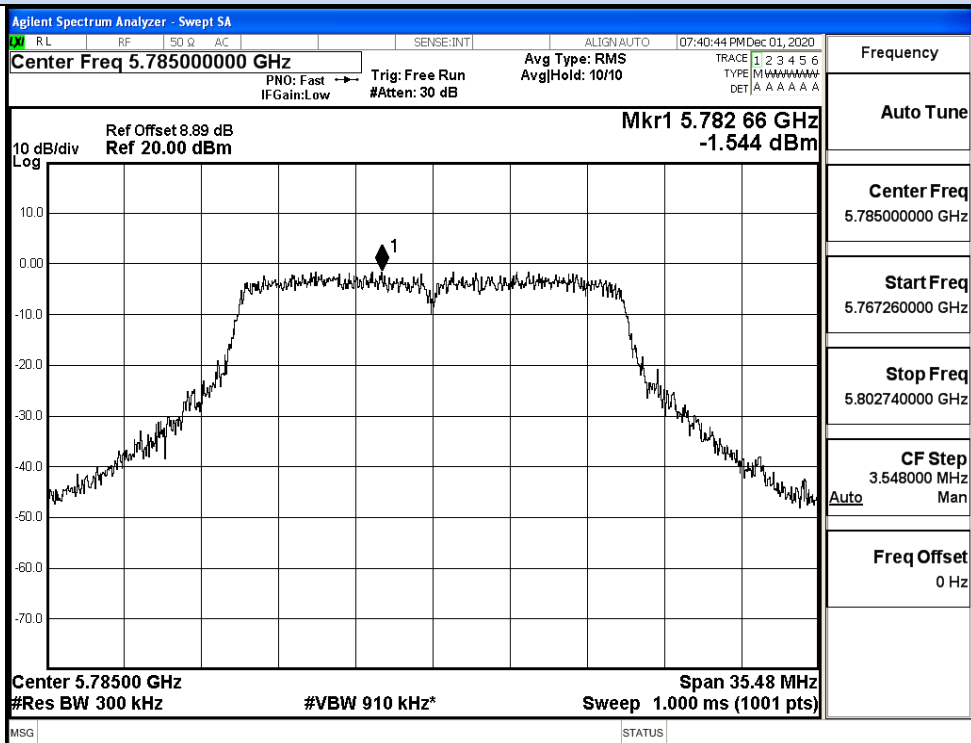
Test Mode	Channel	Frequency (MHz)	Report Power Density (dBm/500KHz)			Limit (dBm)
			Ant0	Ant1	Sum	
11N20	149	5745	0.93	-0.33	3.36	30
	157	5785	0.67	-0.22	3.26	
	165	5825	0.62	-1.74	2.61	
11N40	151	5755	-1.35	-3.18	0.84	30
	159	5795	-1.82	-2.96	0.66	

ANT0

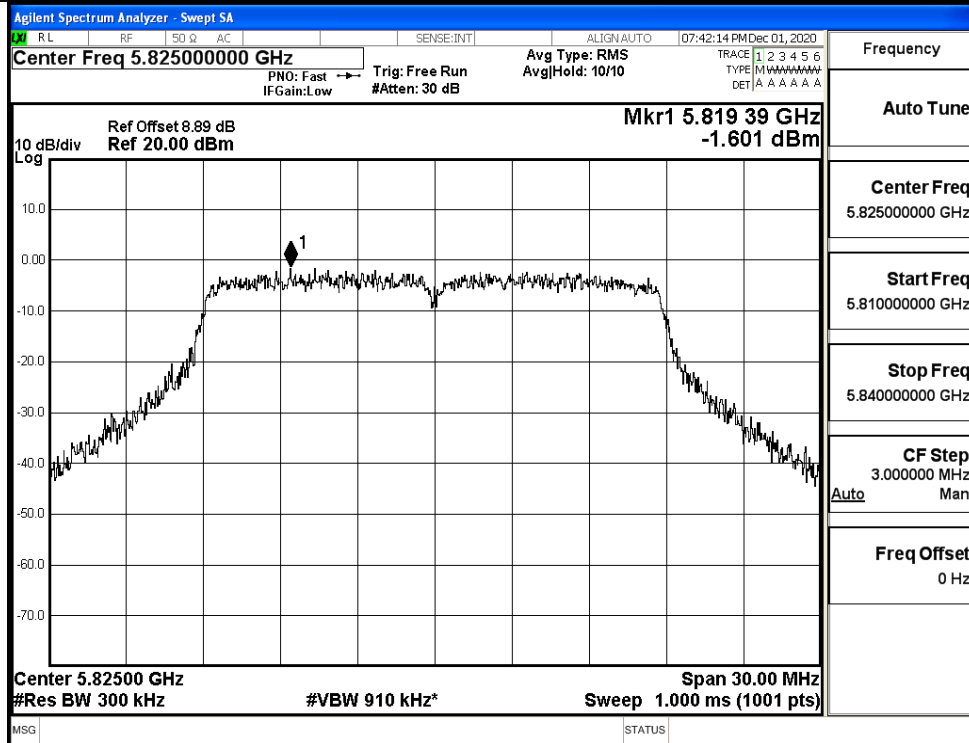
Power Spectral Density



IEEE 802.11n20 / Channel 149 / 5745MHz

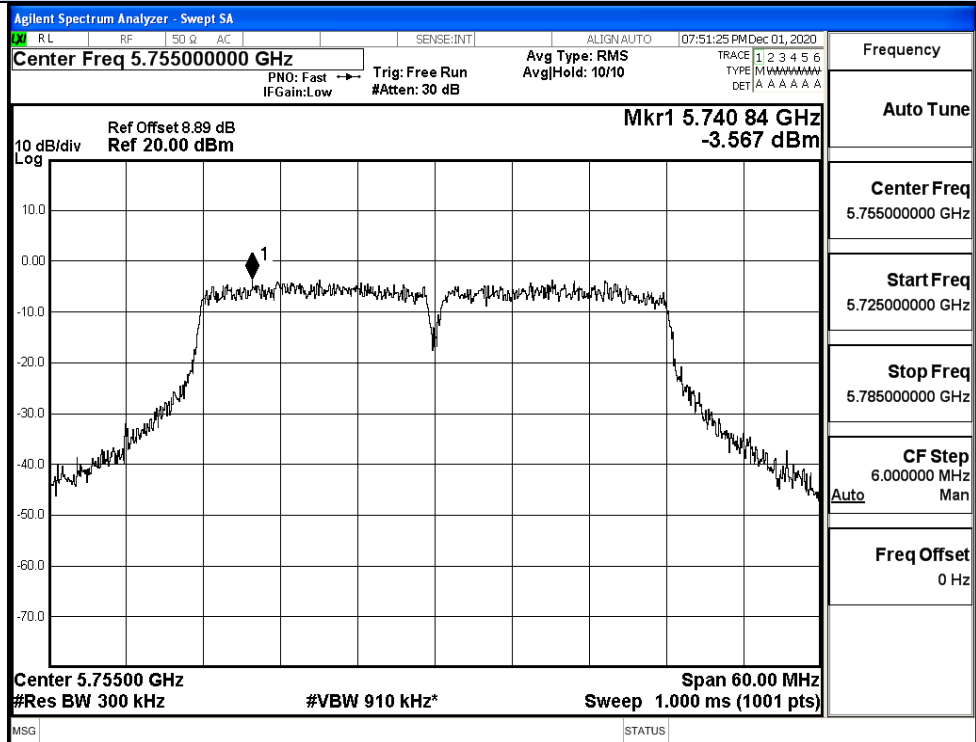


IEEE 802.11n20 / Channel 157 / 5785MHz

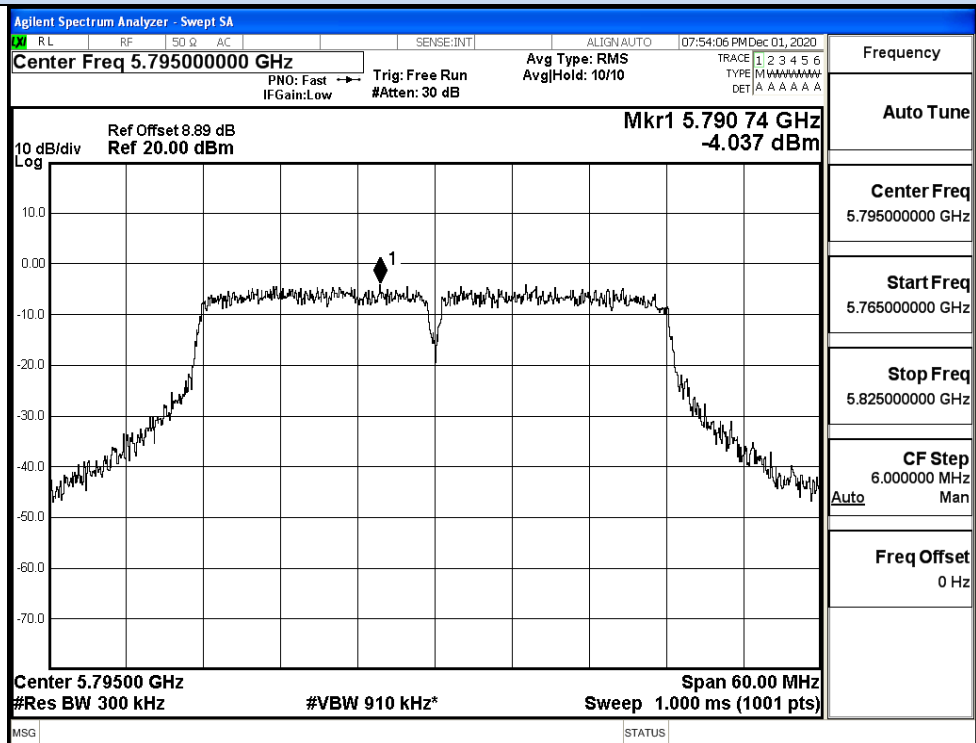


IEEE 802.11n20 / Channel 165 / 5825MHz

Power Spectral Density



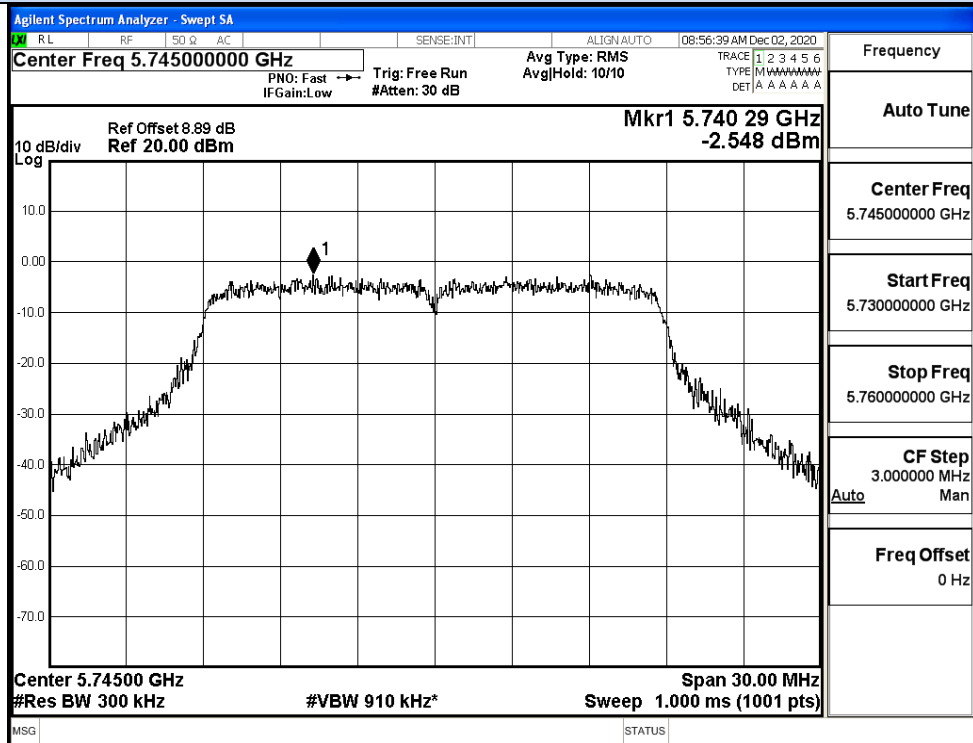
IEEE 802.11n40 / Channel 151 / 5755MHz



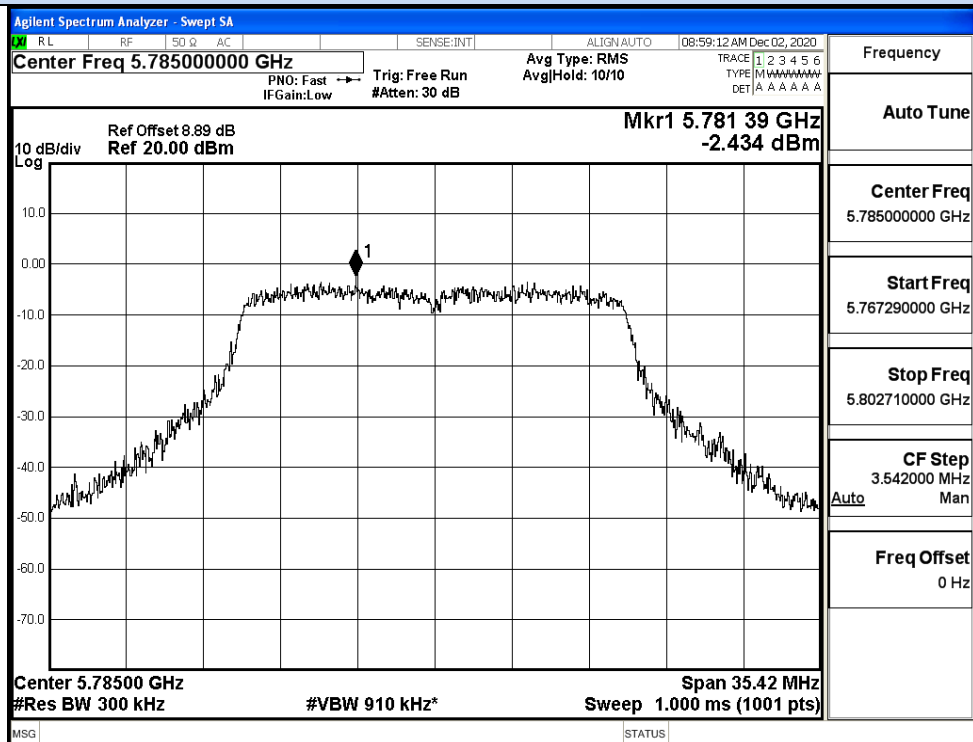
IEEE 802.11n40 / Channel 159 / 5795MHz

ANT1

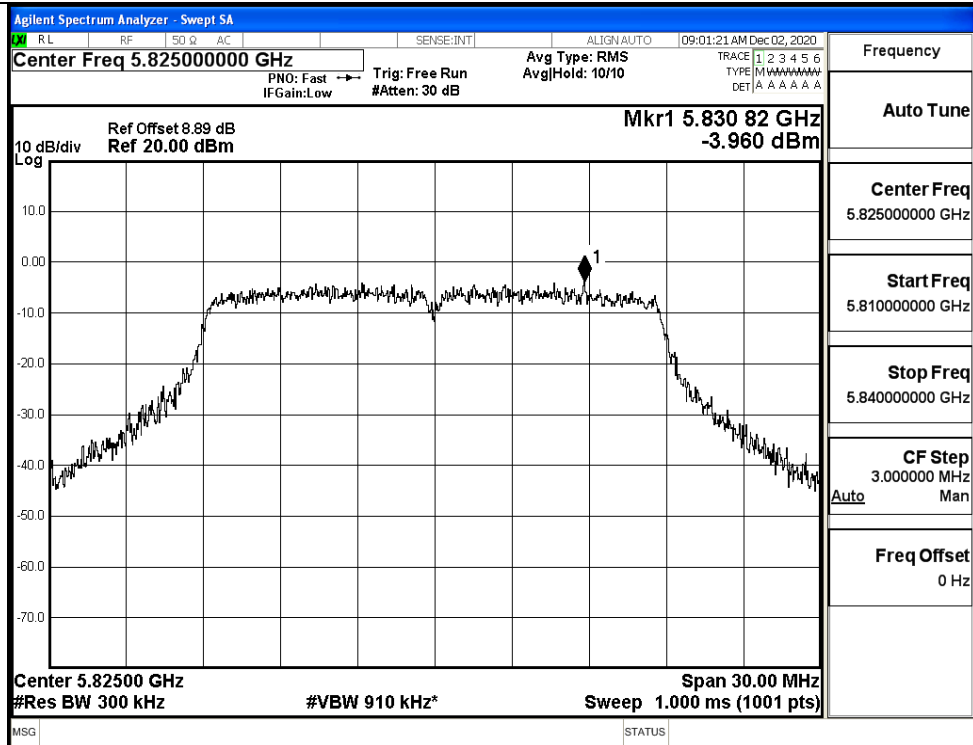
Power Spectral Density



IEEE 802.11n20 / Channel 149 / 5745MHz

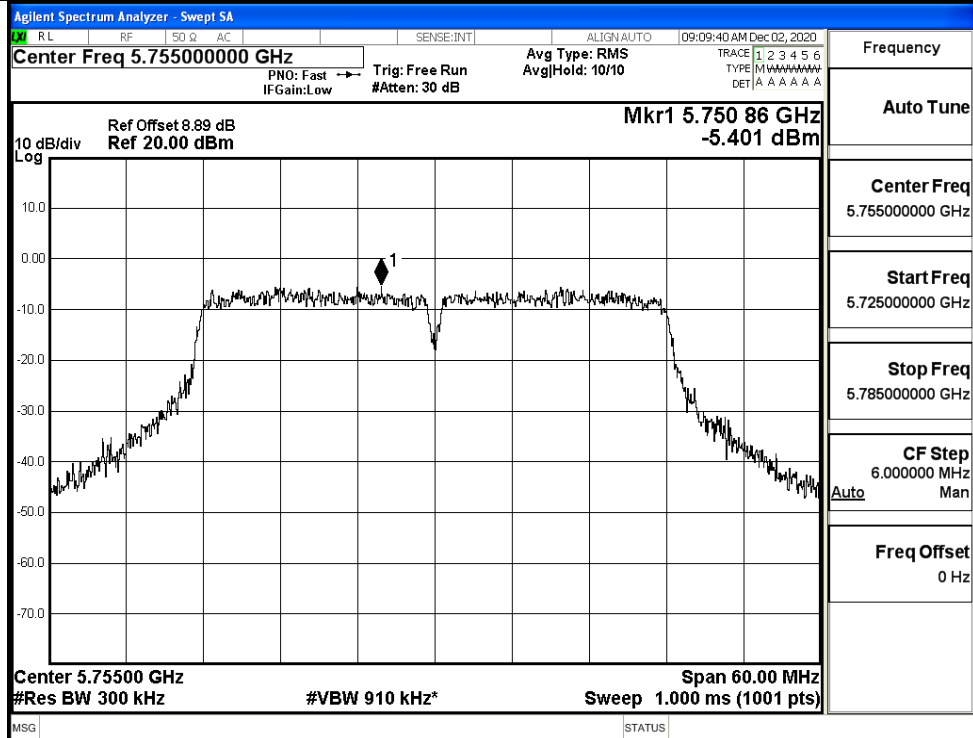


IEEE 802.11n20 / Channel 157 / 5785MHz

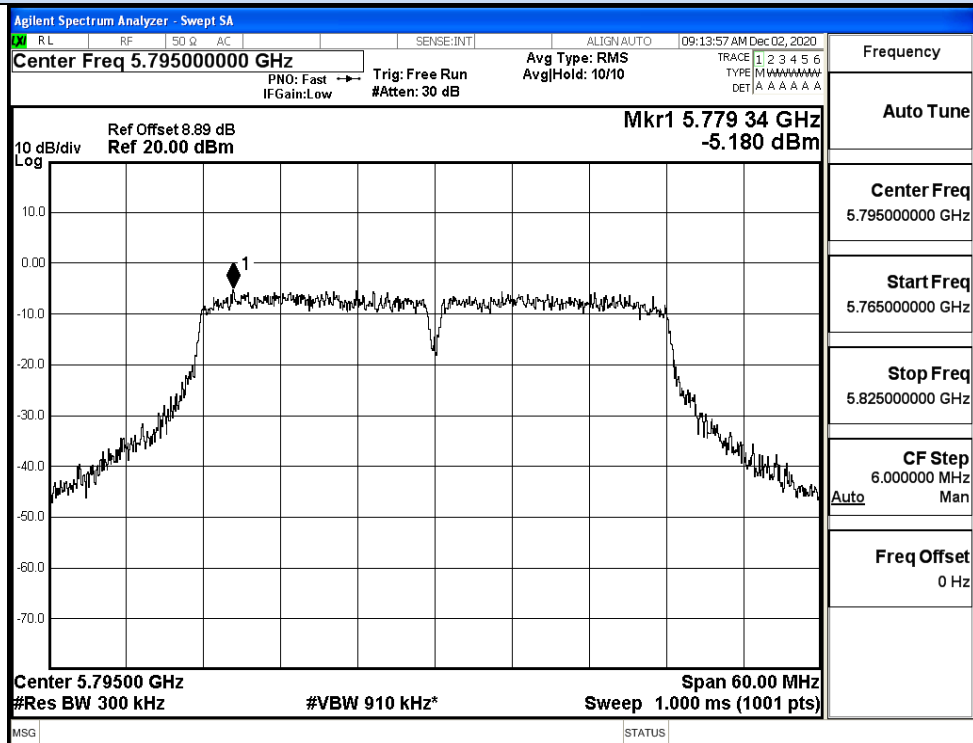


IEEE 802.11n20 / Channel 165 / 5825MHz

Power Spectral Density



IEEE 802.11n40 / Channel 151 / 5755MHz



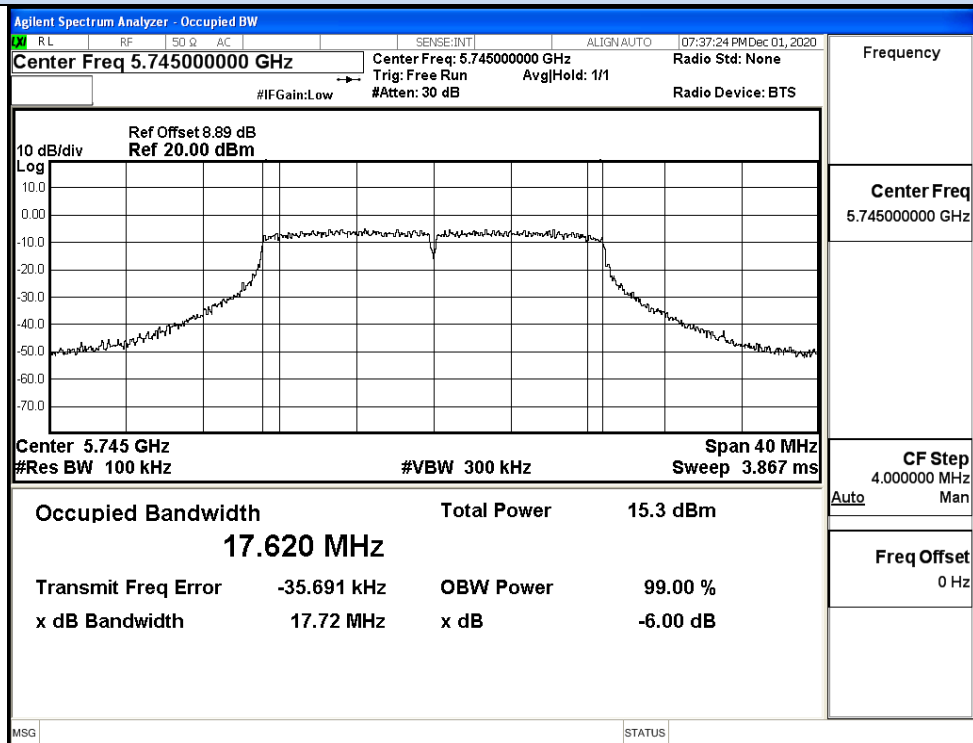
IEEE 802.11n40 / Channel 159 / 5795MHz

B.4 Emission Bandwidth

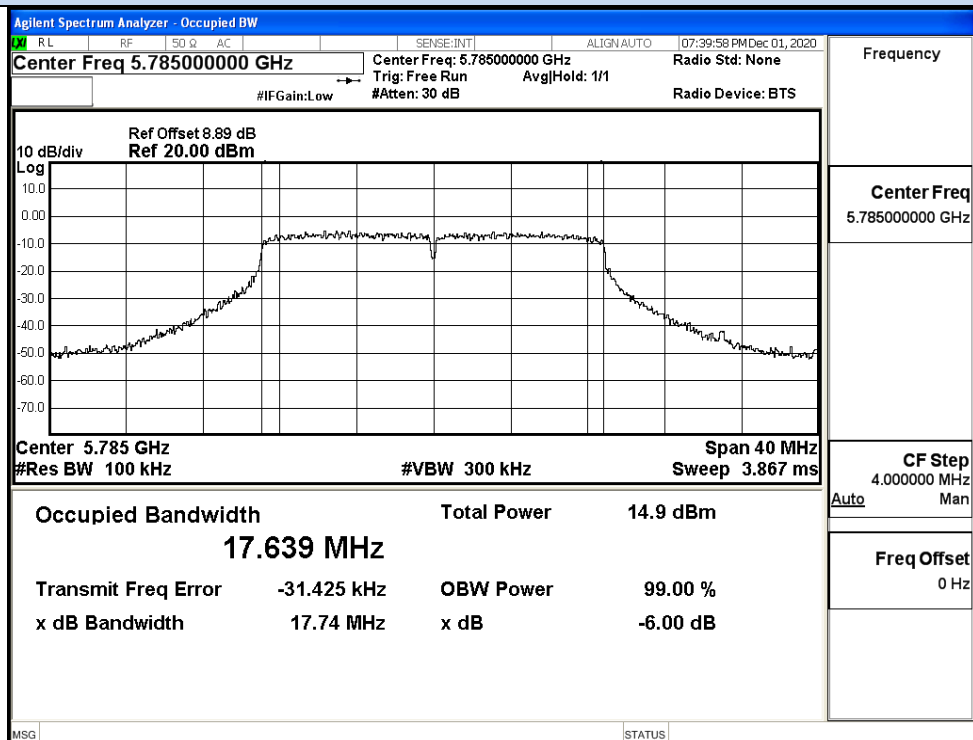
ANTO

Test Mode	Channel	Frequency (MHz)	6dB Bandwidth (MHz)	Limit (MHz)	Verdict
11N20 SISO	149	5745	17.72	>=0.5	Pass
	157	5785	17.74		Pass
	165	5825	17.73		Pass
11N40 SISO	151	5755	36.52	>=0.5	Pass
	159	5795	36.54		Pass

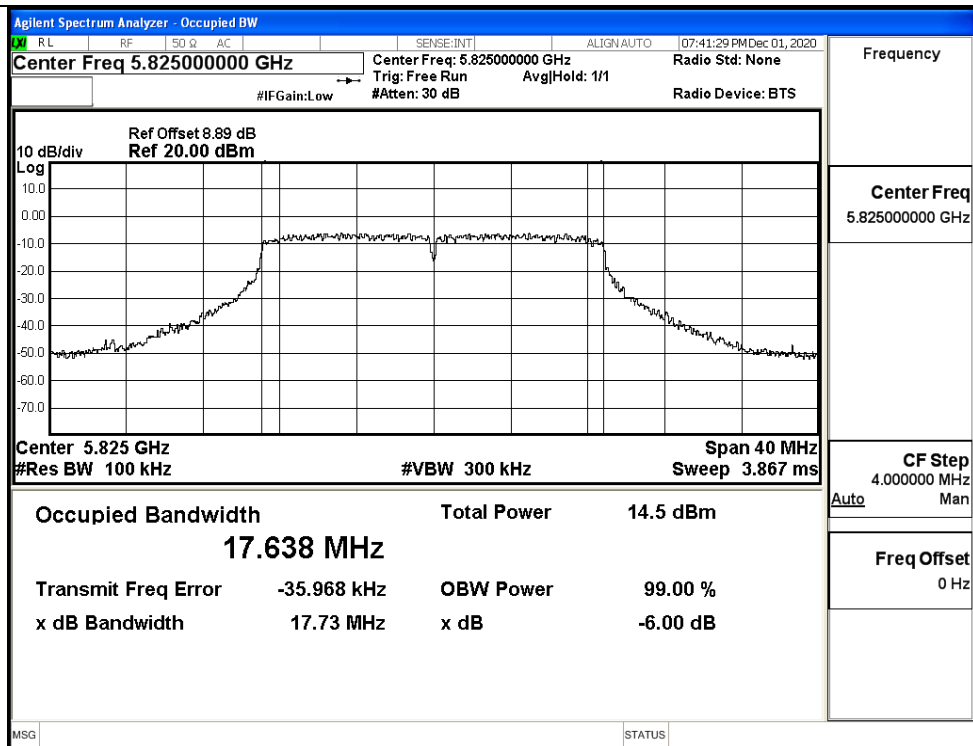
6dB Bandwidth



IEEE 802.11n20 / Channel 149 / 5745MHz

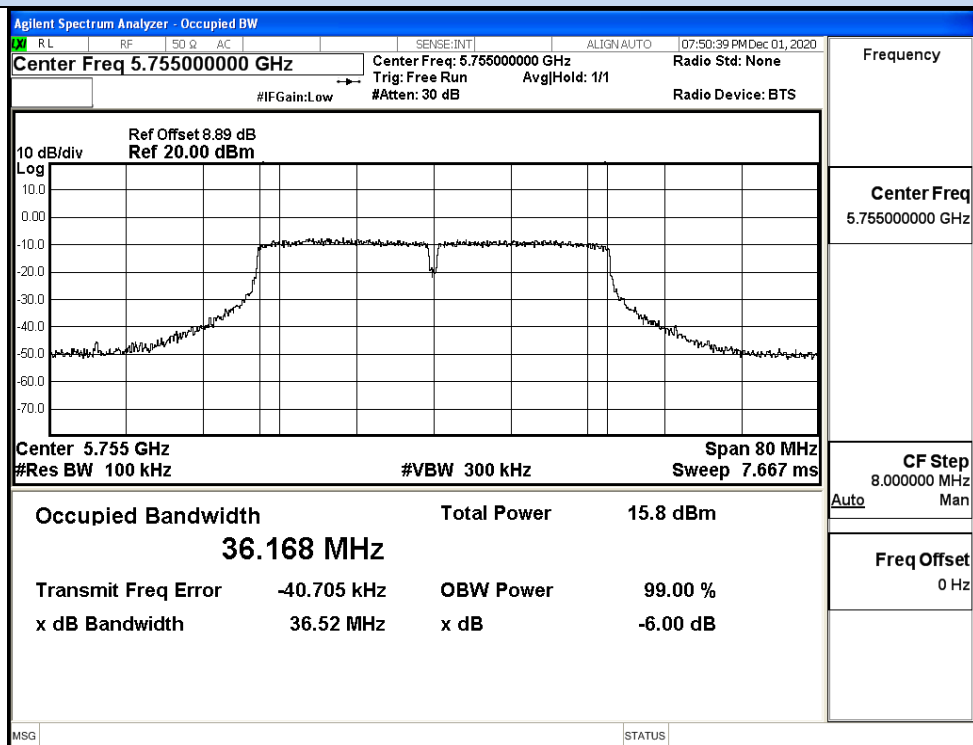


IEEE 802.11n20 / Channel 157 / 5785MHz

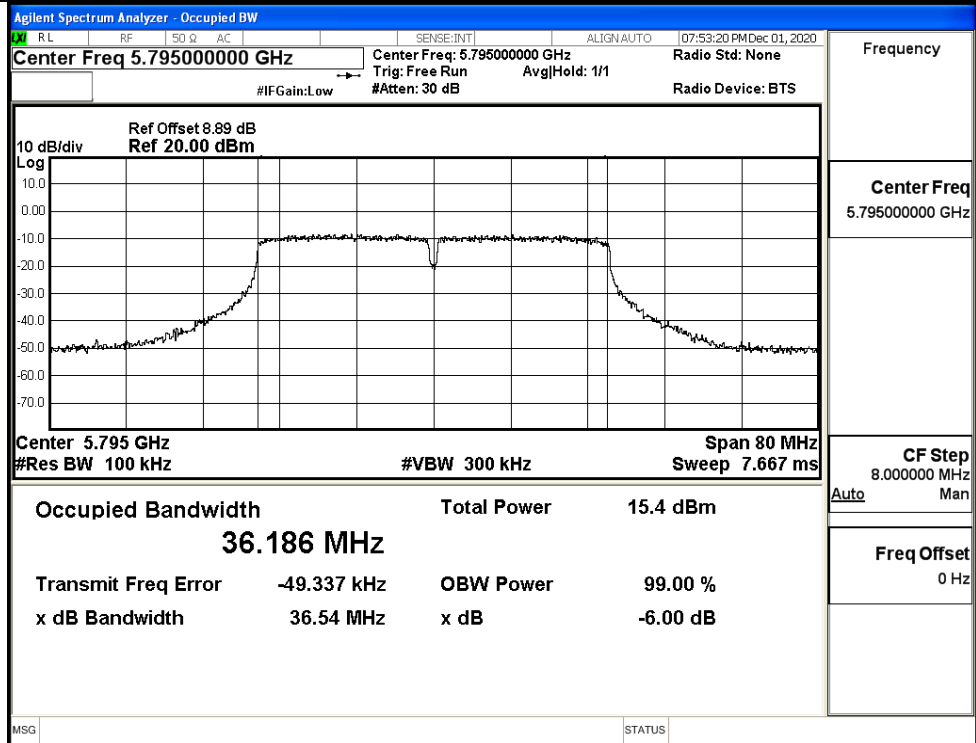


IEEE 802.11n20 / Channel 165 / 5825MHz

26dB Bandwidth



IEEE 802.11n40 / Channel 151 / 5755MHz

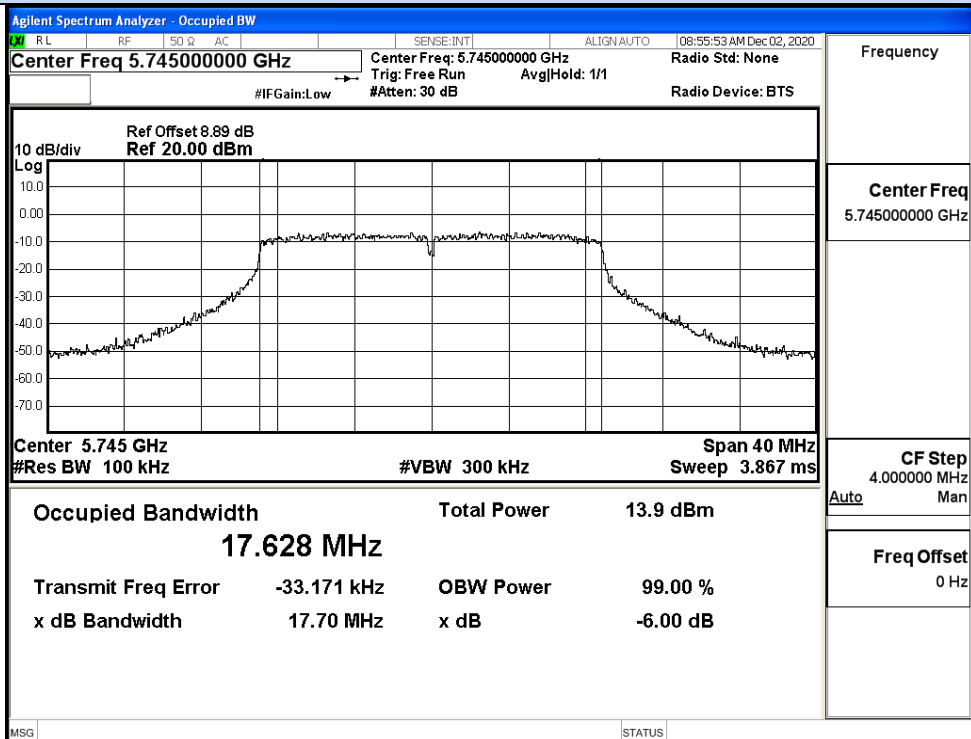


IEEE 802.11n40 / Channel 159 / 5795MHz

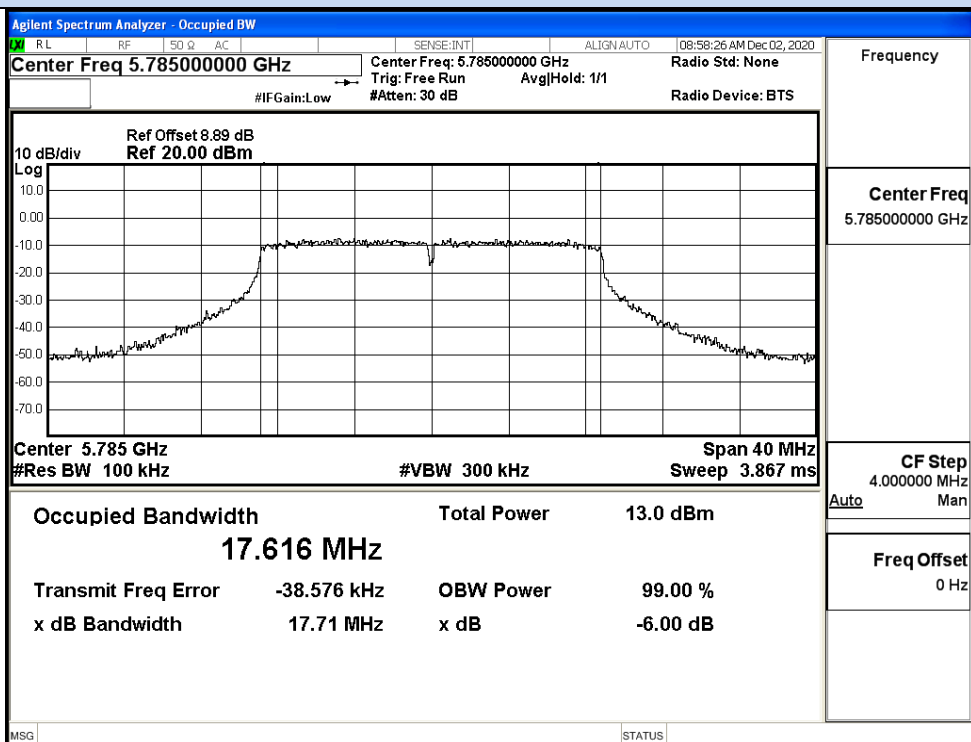
ANT1

Test Mode	Channel	Frequency (MHz)	6dB Bandwidth (MHz)	Limit (MHz)	Verdict
11N20 SISO	149	5745	17.70	>=0.5	Pass
	157	5785	17.71		Pass
	165	5825	17.66		Pass
11N40 SISO	151	5755	36.53	>=0.5	Pass
	159	5795	36.51		Pass

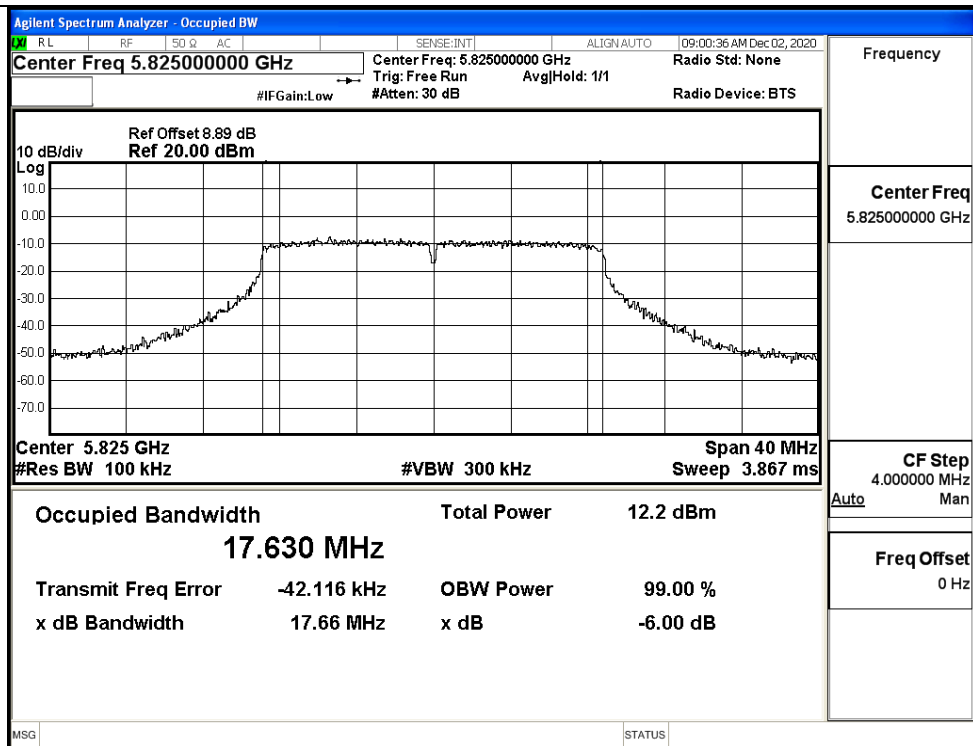
6dB Bandwidth



IEEE 802.11n20 / Channel 149 / 5745MHz

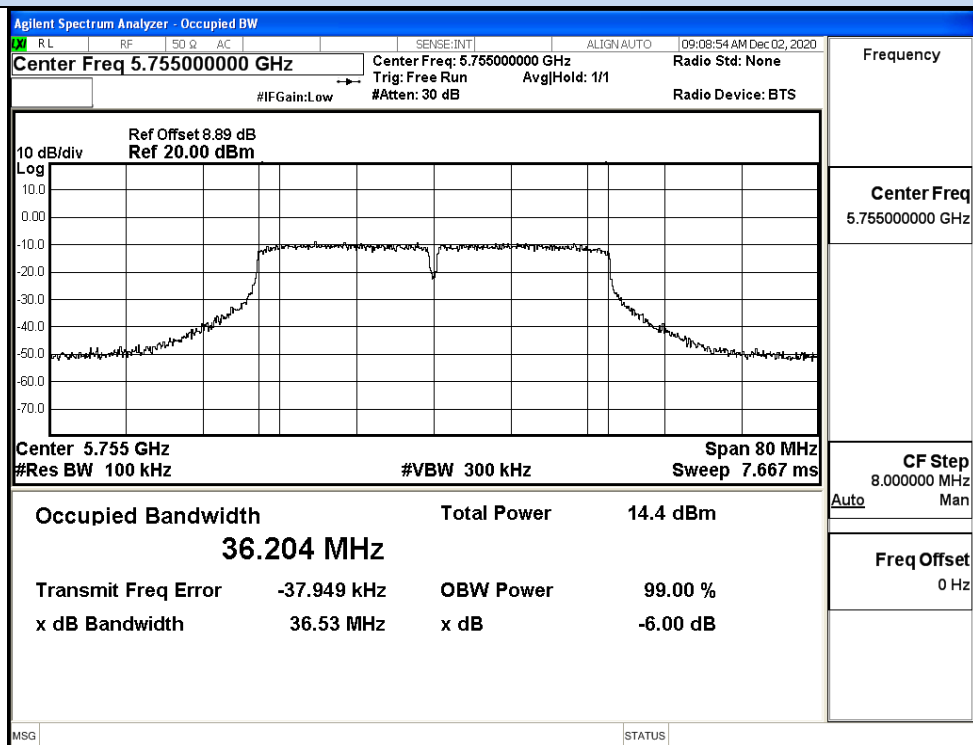


IEEE 802.11n20 / Channel 157 / 5785MHz

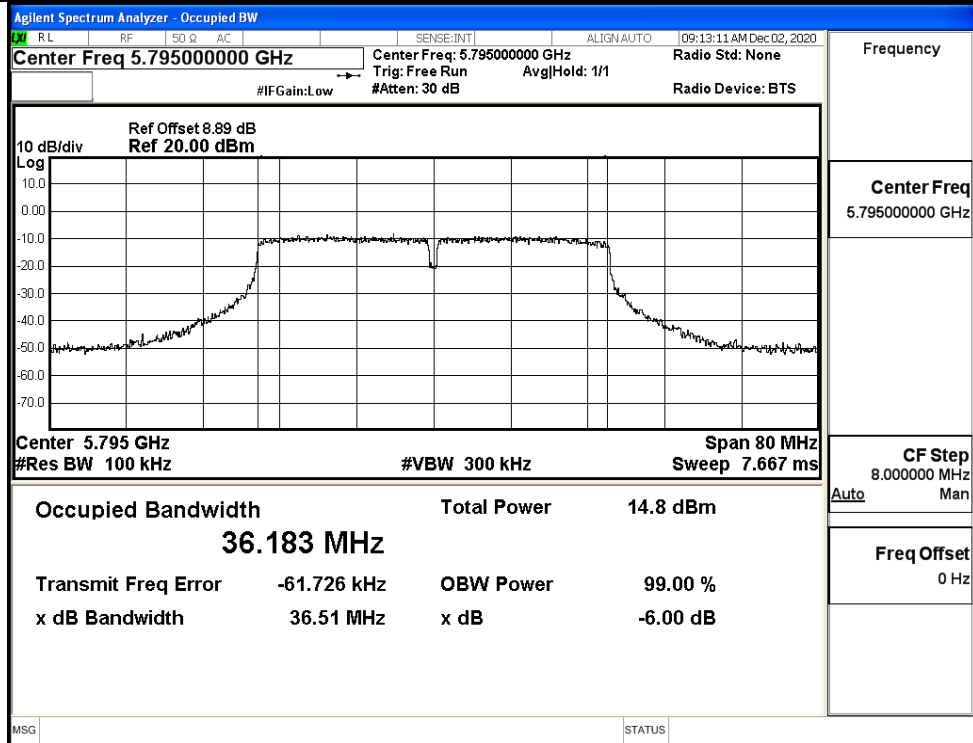


IEEE 802.11n20 / Channel 165 / 5825MHz

26dB Bandwidth



IEEE 802.11n40 / Channel 151 / 5755MHz



IEEE 802.11n40 / Channel 159 / 5795MHz

B.5 Undesirable Emissions Measurement

ANT0

Test Mode	Channel	Frequency (MHz)	Conducted Power (dBm)	Antenna Gain (dBi)	EIRP (dBm/MHz)	Detector	Limit (dBm/MHz)	Verdict
11N20 SISO	149	5650.0	-43.21	2.00	-43.21	Peak	-27.0	Pass
		5650.0	-54.75	2.00	-54.75	Average	-27.0	Pass
		5700.0	-42.46	2.00	-42.46	Peak	10	Pass
		5700.0	-52.55	2.00	-52.55	Average	10	Pass
		5720.0	-42.00	2.00	-42.00	Peak	15.6	Pass
		5720.0	-54.79	2.00	-54.79	Average	15.6	Pass
		5725.0	-40.47	2.00	-40.47	Peak	27.0	Pass
		5725.0	-54.32	2.00	-54.32	Average	27.0	Pass
	165	5850.0	-43.84	2.00	-43.84	Peak	27.0	Pass
		5850.0	-55.79	2.00	-55.79	Average	27.0	Pass
		5855.0	-44.59	2.00	-44.59	Peak	15.6	Pass
		5855.0	-56.00	2.00	-56.00	Average	15.6	Pass
		5875.0	-44.74	2.00	-44.74	Peak	10	Pass
		5875.0	-56.47	2.00	-56.47	Average	10	Pass
		5925.0	-45.58	2.00	-45.58	Peak	-27.0	Pass
		5925.0	-56.99	2.00	-56.99	Average	-27.0	Pass
11N40 SISO	151	5650.0	-42.16	2.00	-42.16	Peak	-27.0	Pass
		5650.0	-54.33	2.00	-54.33	Average	-27.0	Pass
		5700.0	-42.55	2.00	-42.55	Peak	10	Pass
		5700.0	-54.35	2.00	-54.35	Average	10	Pass
		5720.0	-37.45	2.00	-37.45	Peak	15.6	Pass
		5720.0	-49.70	2.00	-49.70	Average	15.6	Pass
		5725.0	-31.92	2.00	-31.92	Peak	27.0	Pass
		5725.0	-51.53	2.00	-51.53	Average	27.0	Pass
	159	5850.0	-44.71	2.00	-44.71	Peak	27.0	Pass
		5850.0	-55.28	2.00	-55.28	Average	27.0	Pass
		5855.0	-43.75	2.00	-43.75	Peak	15.6	Pass
		5855.0	-55.48	2.00	-55.48	Average	15.6	Pass
		5875.0	-43.95	2.00	-43.95	Peak	10	Pass
		5875.0	-55.61	2.00	-55.61	Average	10	Pass
		5925.0	-44.75	2.00	-44.75	Peak	-27.0	Pass
		5925.0	-56.69	2.00	-56.69	Average	-27.0	Pass

ANT1

Test Mode	Channel	Frequency (MHz)	Conducted Power (dBm)	Antenna Gain (dBi)	EIRP (dBm/MHz)	Detector	Limit (dBm/MHz)	Verdict
11N20 SISO	149	5650.0	-43.14	2.00	-43.14	Peak	-27.0	Pass
		5650.0	-55.95	2.00	-55.95	Average	-27.0	Pass
		5700.0	-43.29	2.00	-43.29	Peak	10	Pass
		5700.0	-56.17	2.00	-56.17	Average	10	Pass
		5720.0	-44.53	2.00	-44.53	Peak	15.6	Pass
		5720.0	-55.92	2.00	-55.92	Average	15.6	Pass
		5725.0	-41.74	2.00	-41.74	Peak	27.0	Pass
		5725.0	-55.37	2.00	-55.37	Average	27.0	Pass
	165	5850.0	-44.86	2.00	-44.86	Peak	27.0	Pass
		5850.0	-56.40	2.00	-56.40	Average	27.0	Pass
		5855.0	-44.69	2.00	-44.69	Peak	15.6	Pass
		5855.0	-56.53	2.00	-56.53	Average	15.6	Pass
		5875.0	-45.19	2.00	-45.19	Peak	10	Pass
		5875.0	-56.80	2.00	-56.80	Average	10	Pass
		5925.0	-46.02	2.00	-46.02	Peak	-27.0	Pass
		5925.0	-57.06	2.00	-57.06	Average	-27.0	Pass
11N40 SISO	151	5650.0	-43.81	2.00	-43.81	Peak	-27.0	Pass
		5650.0	-55.58	2.00	-55.58	Average	-27.0	Pass
		5700.0	-43.35	2.00	-43.35	Peak	10	Pass
		5700.0	-55.65	2.00	-55.65	Average	10	Pass
		5720.0	-39.34	2.00	-39.34	Peak	15.6	Pass
		5720.0	-54.37	2.00	-54.37	Average	15.6	Pass
		5725.0	-34.02	2.00	-34.02	Peak	27.0	Pass
		5725.0	-52.86	2.00	-52.86	Average	27.0	Pass

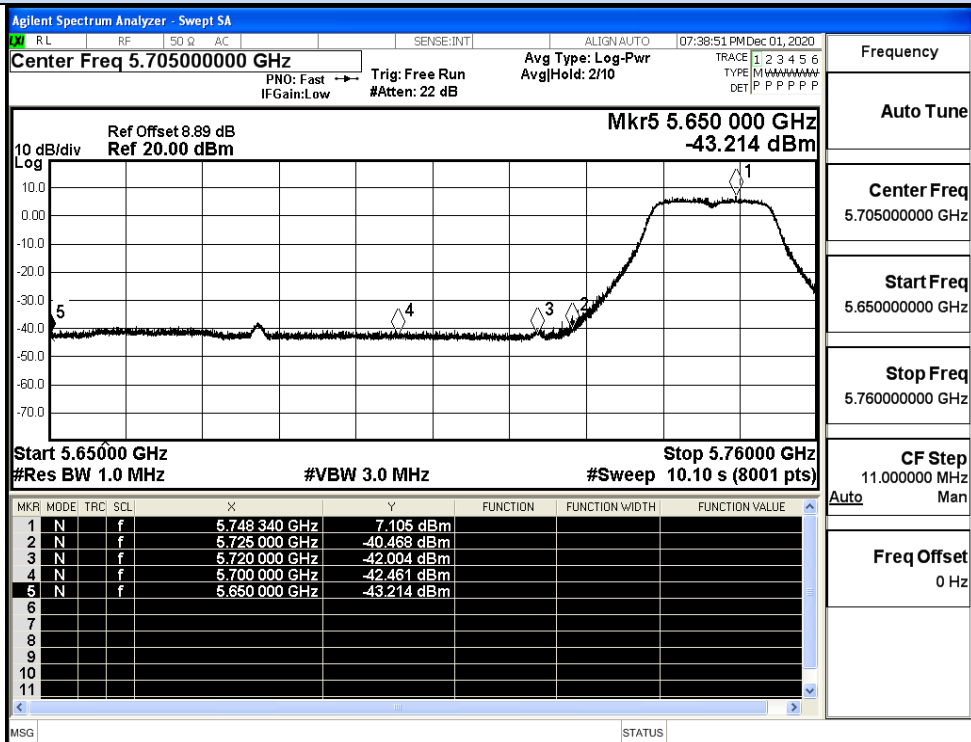
159	5850.0	-43.94	2.00	-43.94	Peak	27.0	Pass
	5850.0	-55.55	2.00	-55.55	Average	27.0	Pass
	5855.0	-44.44	2.00	-44.44	Peak	15.6	Pass
	5855.0	-55.64	2.00	-55.64	Average	15.6	Pass
	5875.0	-42.76	2.00	-42.76	Peak	10	Pass
	5875.0	-55.61	2.00	-55.61	Average	10	Pass
	5925.0	-44.18	2.00	-44.18	Peak	-27.0	Pass
	5925.0	-56.49	2.00	-56.49	Average	-27.0	Pass

Combined Ant0 and Ant1

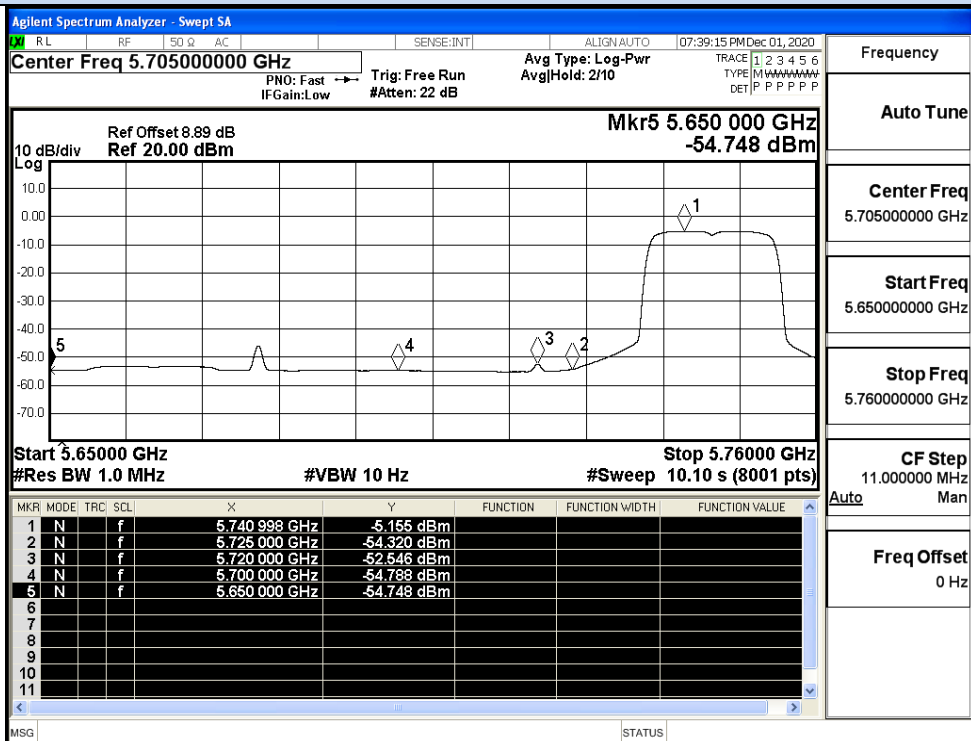
Test Mode	Channel	Frequency (MHz)	Conducted Power (dBm)			Antenna Gain (dBi)	EIRP (dBm/MHz)	Detector	Limit (dBm/MHz)	Verdict
			ANT0	ANT1	SUM					
11N20 SISO	149	5650.0	-43.21	-43.14	-40.16	3.01	-37.15	Peak	-27.0	Pass
		5650.0	-54.75	-55.95	-52.30	3.01	-49.29	Average	-27.0	Pass
		5700.0	-42.46	-43.29	-39.84	3.01	-36.83	Peak	10	Pass
		5700.0	-52.55	-56.17	-50.98	3.01	-47.97	Average	10	Pass
		5720.0	-42.00	-44.53	-40.07	3.01	-37.06	Peak	15.6	Pass
		5720.0	-54.79	-55.92	-52.31	3.01	-49.30	Average	15.6	Pass
		5725.0	-40.47	-41.74	-38.05	3.01	-35.04	Peak	27.0	Pass
		5725.0	-54.32	-55.37	-51.80	3.01	-48.79	Average	27.0	Pass
	165	5850.0	-43.84	-44.86	-41.31	3.01	-38.30	Peak	27.0	Pass
		5850.0	-55.79	-56.40	-53.07	3.01	-50.06	Average	27.0	Pass
		5855.0	-44.59	-44.69	-41.63	3.01	-38.62	Peak	15.6	Pass
		5855.0	-56.00	-56.53	-53.25	3.01	-50.24	Average	15.6	Pass
		5875.0	-44.74	-45.19	-41.95	3.01	-38.94	Peak	10	Pass
		5875.0	-56.47	-56.80	-53.62	3.01	-50.61	Average	10	Pass
		5925.0	-45.58	-46.02	-42.78	3.01	-39.77	Peak	-27.0	Pass
		5925.0	-56.99	-57.06	-54.01	3.01	-51.00	Average	-27.0	Pass
11N40 SISO	151	5650.0	-42.16	-43.81	-39.90	3.01	-36.89	Peak	-27.0	Pass
		5650.0	-54.33	-55.58	-51.90	3.01	-48.89	Average	-27.0	Pass
		5700.0	-42.55	-43.35	-39.92	3.01	-36.91	Peak	10	Pass
		5700.0	-54.35	-55.65	-51.94	3.01	-48.93	Average	10	Pass
		5720.0	-37.45	-39.34	-35.28	3.01	-32.27	Peak	15.6	Pass
		5720.0	-49.70	-54.37	-48.43	3.01	-45.42	Average	15.6	Pass
		5725.0	-31.92	-34.02	-29.83	3.01	-26.82	Peak	27.0	Pass
		5725.0	-51.53	-52.86	-49.13	3.01	-46.12	Average	27.0	Pass
	159	5850.0	-44.71	-43.94	-41.30	3.01	-38.29	Peak	27.0	Pass
		5850.0	-55.28	-55.55	-52.40	3.01	-49.39	Average	27.0	Pass
		5855.0	-43.75	-44.44	-41.07	3.01	-38.06	Peak	15.6	Pass
		5855.0	-55.48	-55.64	-52.55	3.01	-49.54	Average	15.6	Pass
		5875.0	-43.95	-42.76	-40.30	3.01	-37.29	Peak	10	Pass
		5875.0	-55.61	-55.61	-52.60	3.01	-49.59	Average	10	Pass
		5925.0	-44.75	-44.18	-41.45	3.01	-38.44	Peak	-27.0	Pass
		5925.0	-56.69	-56.49	-53.58	3.01	-50.57	Average	-27.0	Pass

ANT0

Undesirable Emissions Measurement

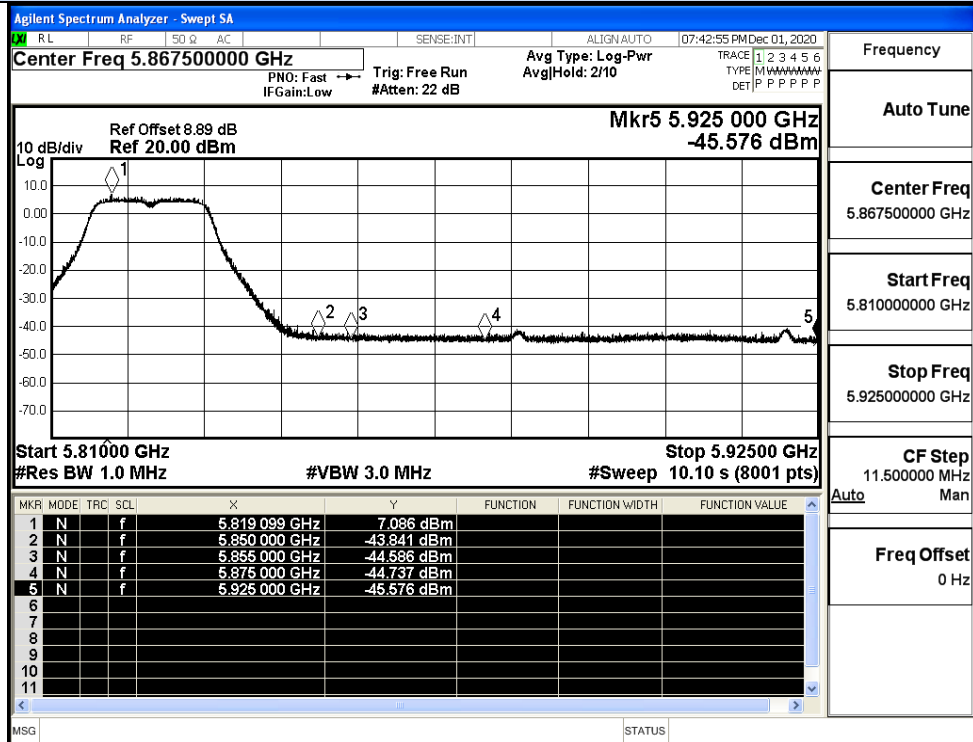


IEEE 802.11n20 / Channel 149 / 5745MHz / Peak

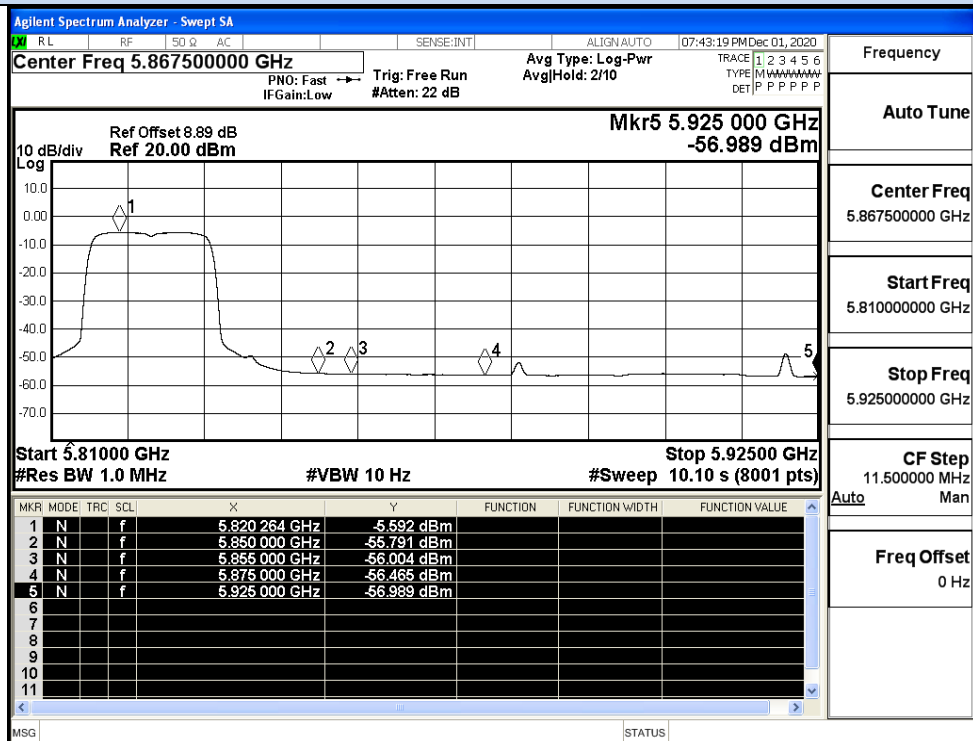


IEEE 802.11n20 / Channel 149 / 5745MHz / Average

Undesirable Emissions Measurement

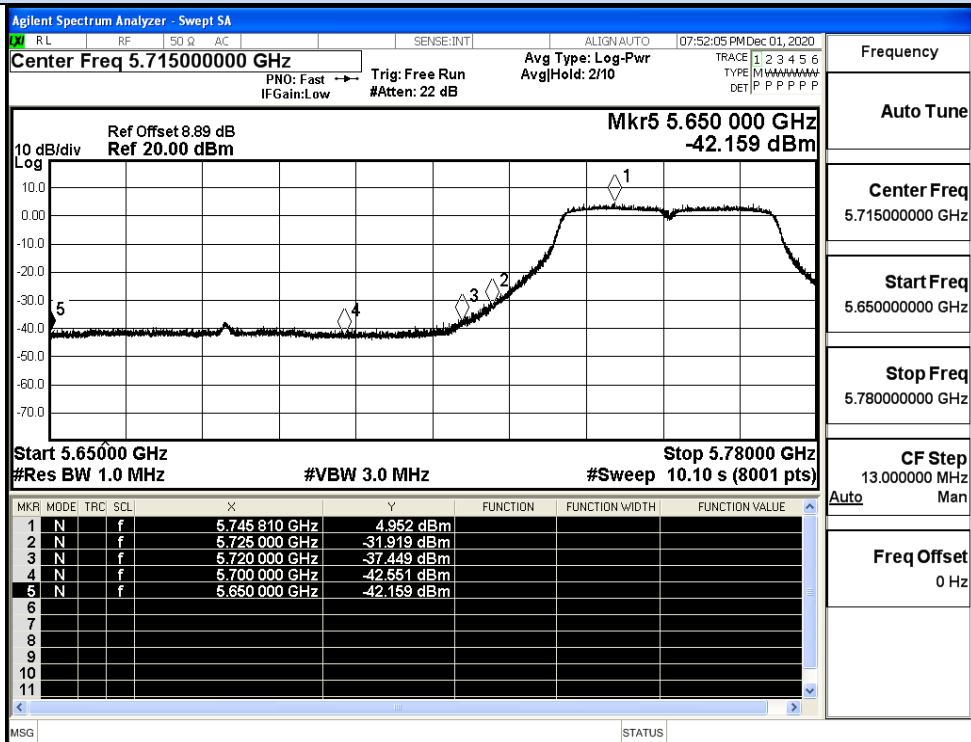


IEEE 802.11n20 / Channel 165 / 5825MHz / Peak

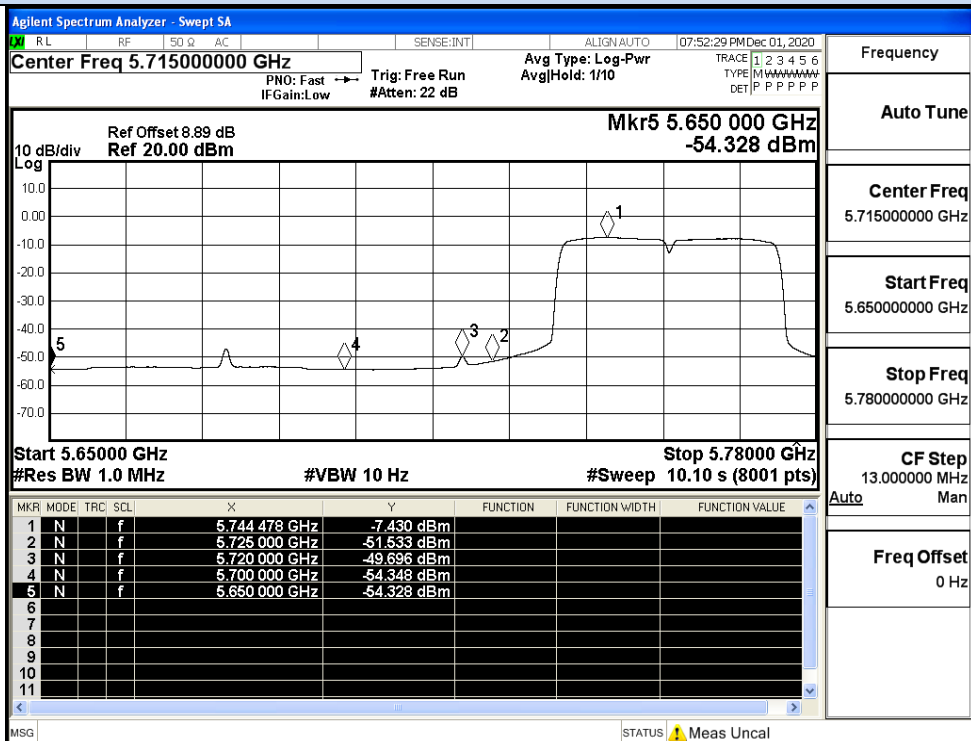


IEEE 802.11n20 / Channel 165 / 5825MHz / Average

Undesirable Emissions Measurement

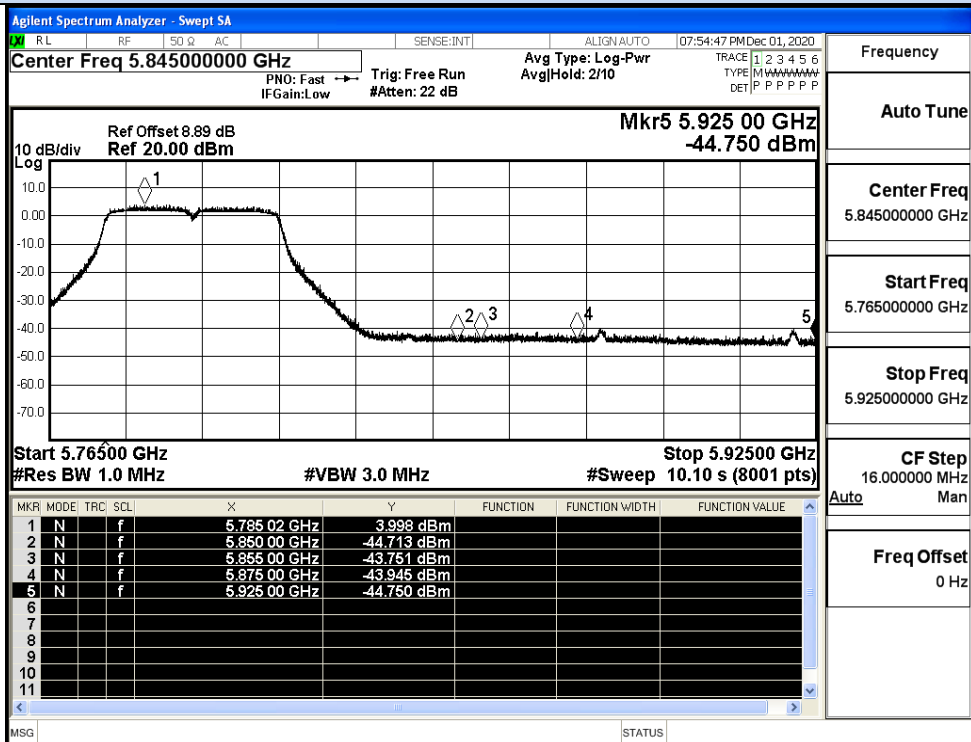


IEEE 802.11n40 / Channel 151 / 5755MHz / Peak

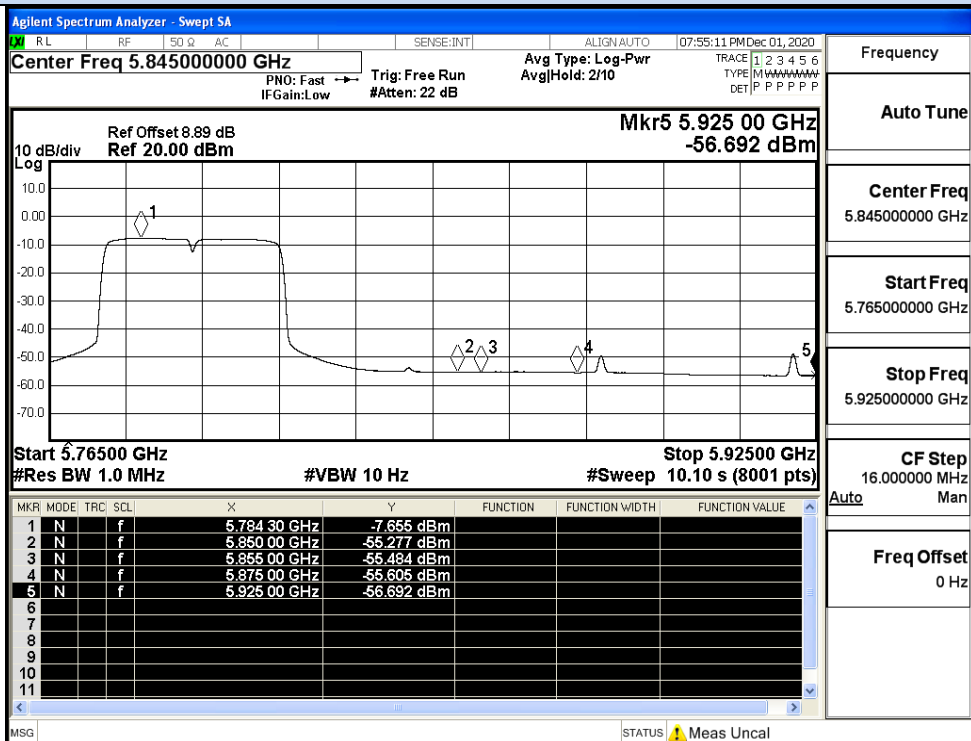


IEEE 802.11n40 / Channel 151 / 5755MHz / Average

Undesirable Emissions Measurement

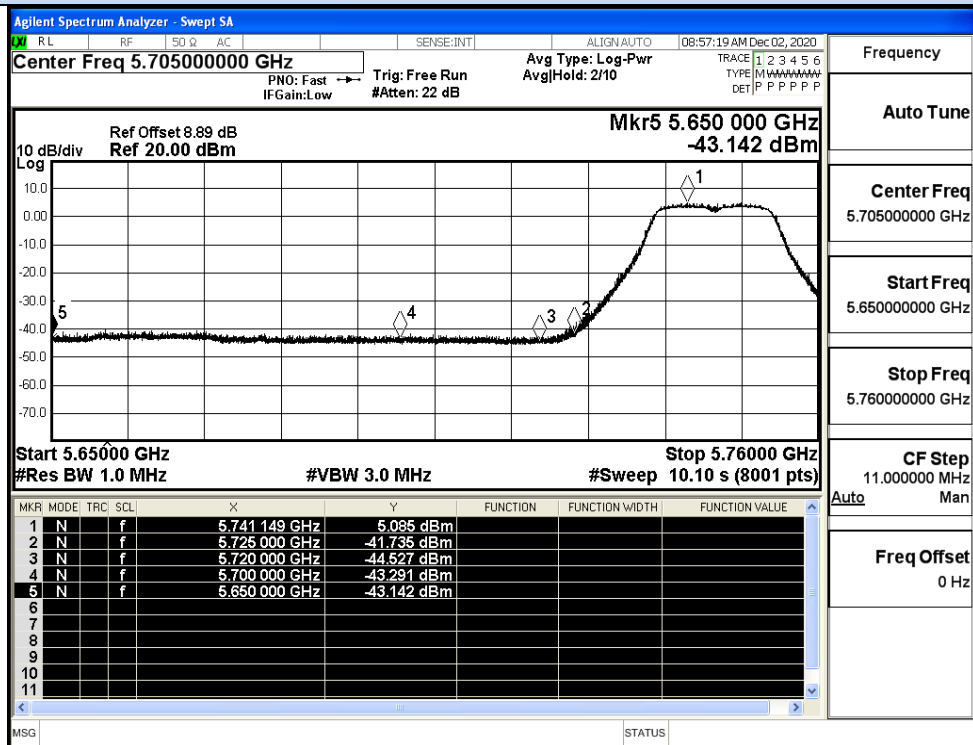


IEEE 802.11n40 / Channel 159 / 5795MHz / Peak

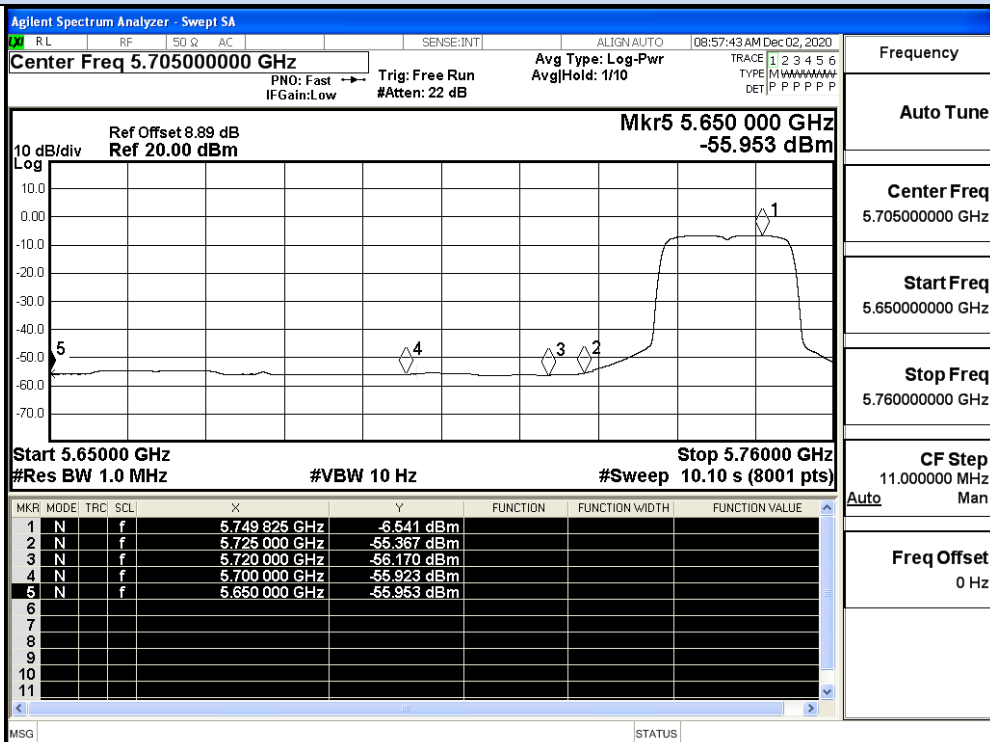


ANT1

Undesirable Emissions Measurement

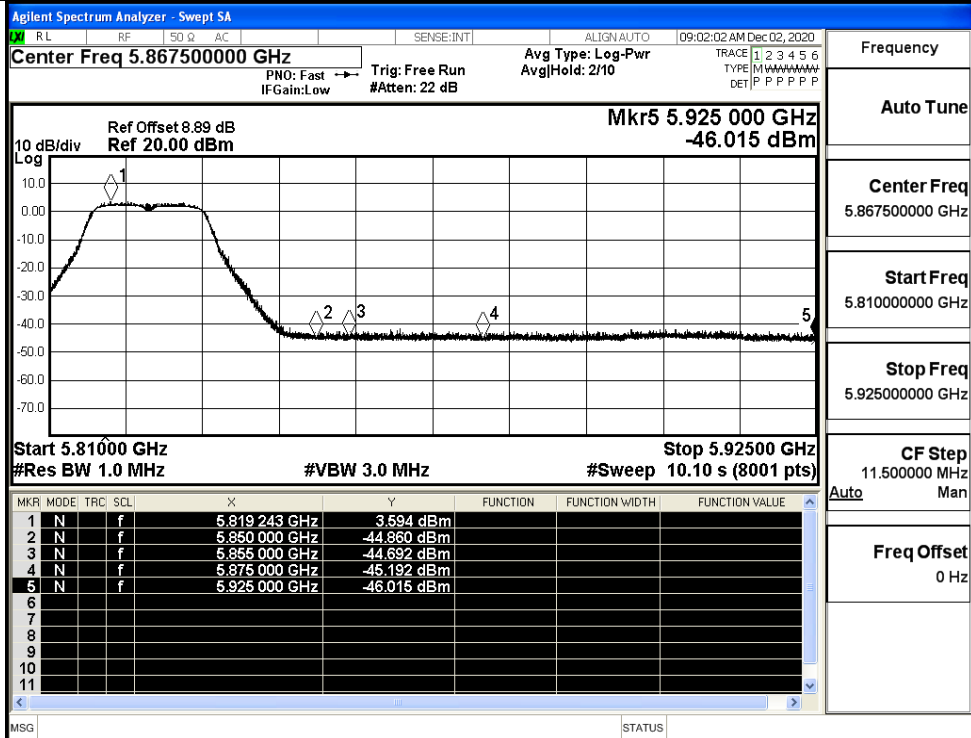


IEEE 802.11n20 / Channel 149 / 5745MHz / Peak

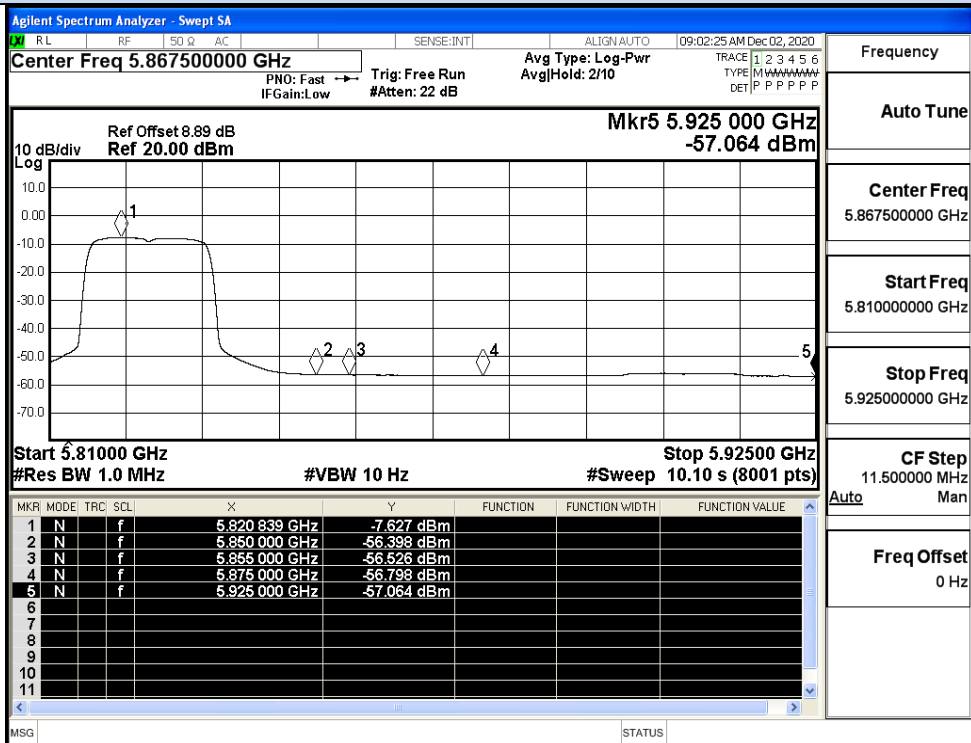


IEEE 802.11n20 / Channel 149 / 5745MHz / Average

Undesirable Emissions Measurement

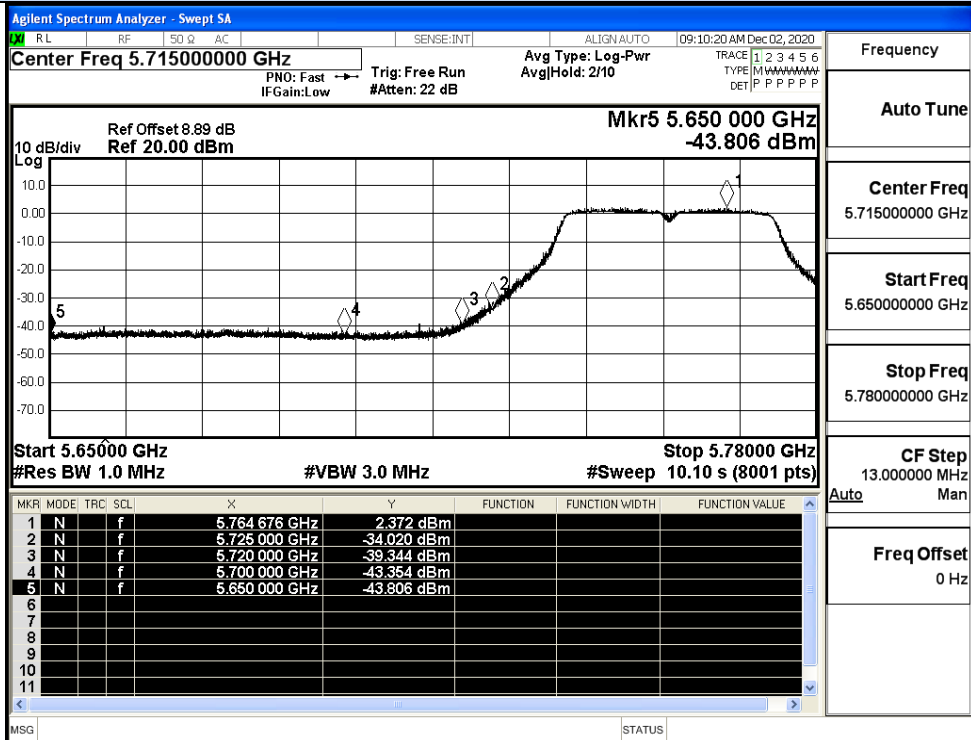


IEEE 802.11n20 / Channel 165 / 5825MHz / Peak

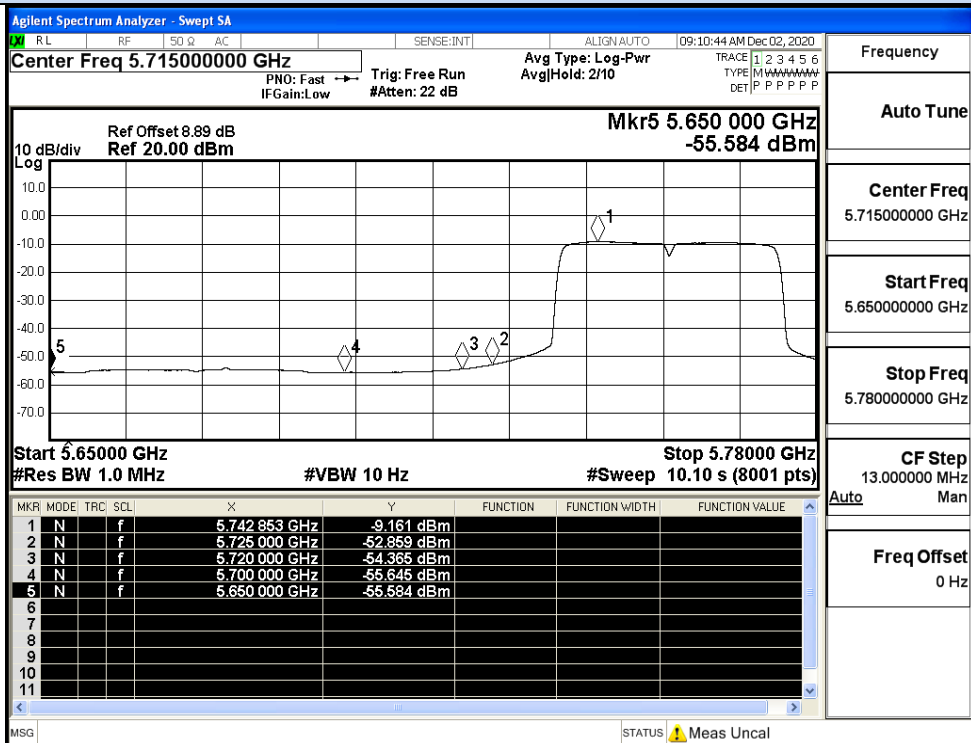


IEEE 802.11n20 / Channel 165 / 5825MHz / Average

Undesirable Emissions Measurement

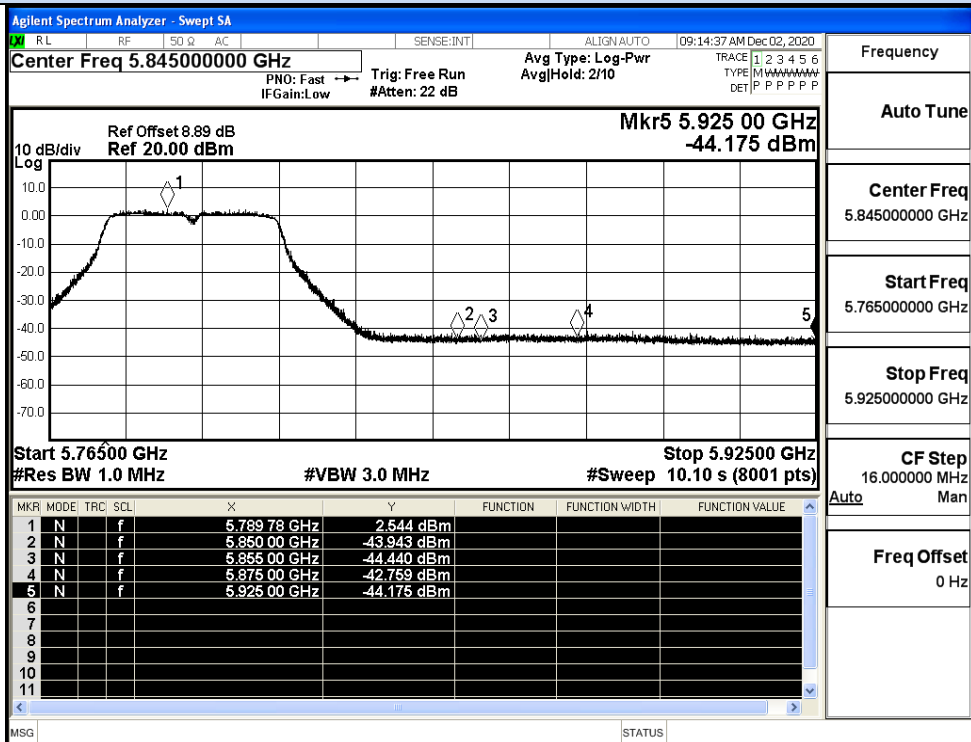


IEEE 802.11n40 / Channel 151 / 5755MHz / Peak

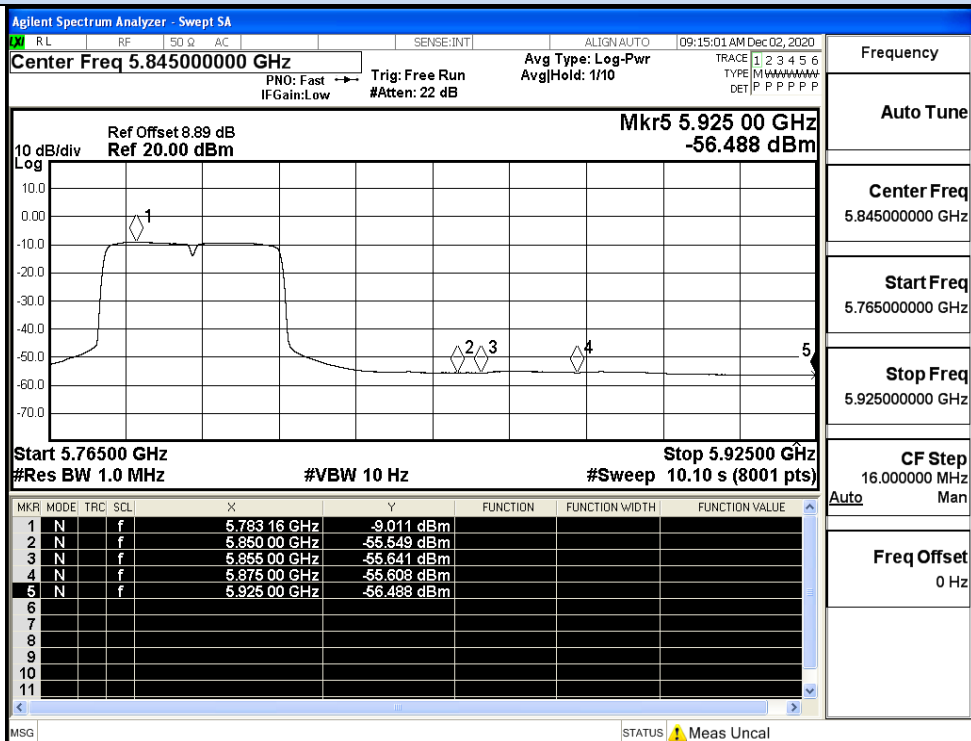


IEEE 802.11n40 / Channel 151 / 5755MHz / Average

Undesirable Emissions Measurement



IEEE 802.11n40 / Channel 159 / 5795MHz / Peak



IEEE 802.11n40 / Channel 159 / 5795MHz / Average