

Appendix E

RF Test Data for 5.8G WLAN (Conducted Measurement)

Product Name: Wi-Fi Module

Trade Mark: N/A

Test Model: EWN-1638ACX2AA

Environmental Conditions

Temperature:	21.9°C
Relative Humidity:	53.4%
ATM Pressure:	100.0 kPa
Test Engineer:	Jack Liu
Supervised by:	Li Huan

E.1 Duty Cycle

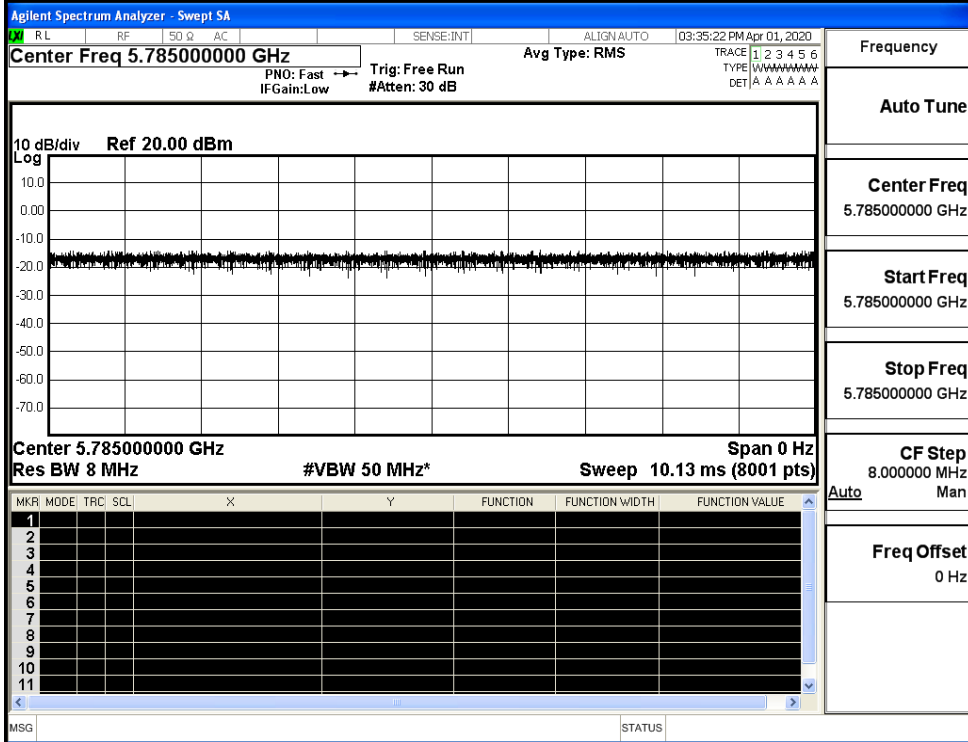
Ant_0

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	5785	100	0.00	0.01
11N40	5755	100	0.00	0.01
11AC20	5785	100	0.00	0.01
11AC40	5755	100	0.00	0.01
11AC80	5775	100	0.00	0.01

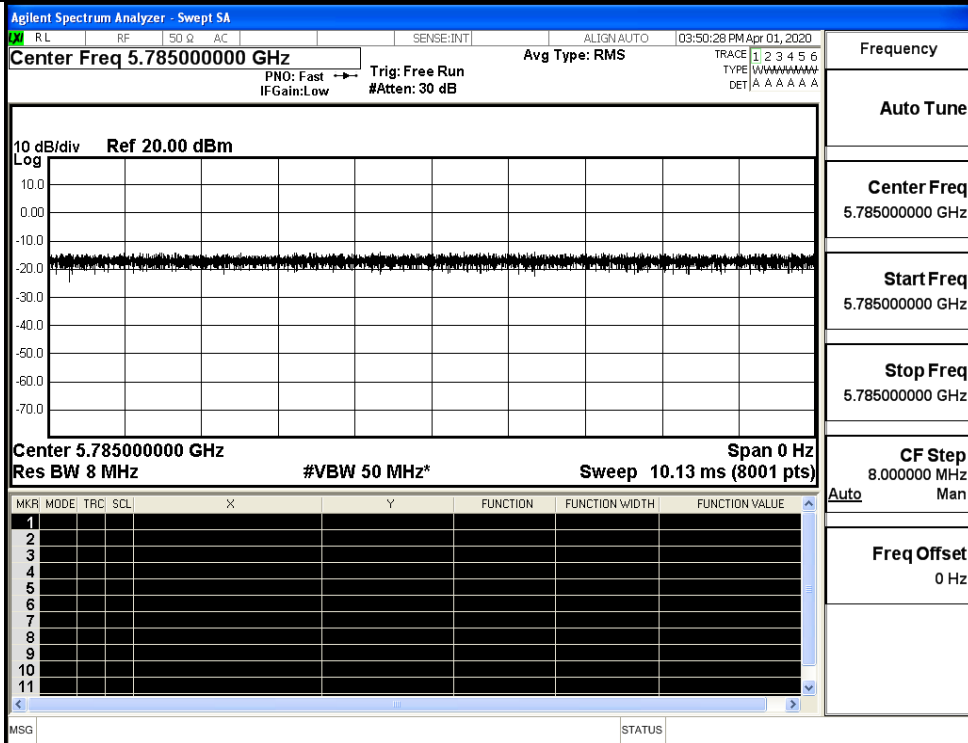
Ant_1

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	5785	100	0.00	0.01
11N40	5755	100	0.00	0.01
11AC20	5785	100	0.00	0.01
11AC40	5755	100	0.00	0.01
11AC80	5775	100	0.00	0.01

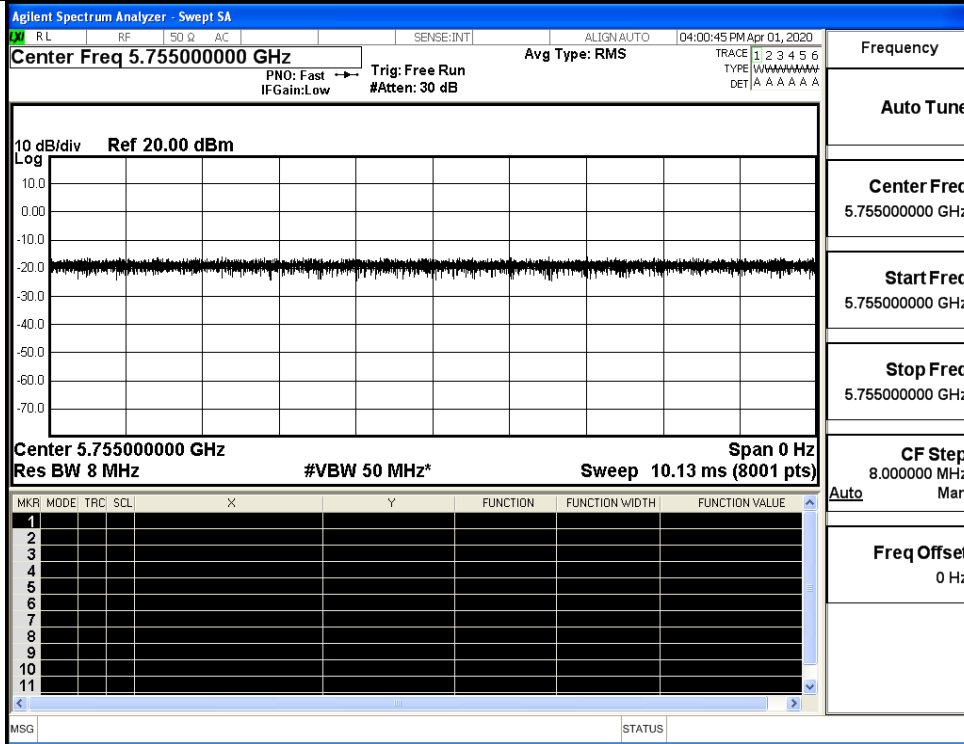
On Time and Duty Cycle_Ant_0



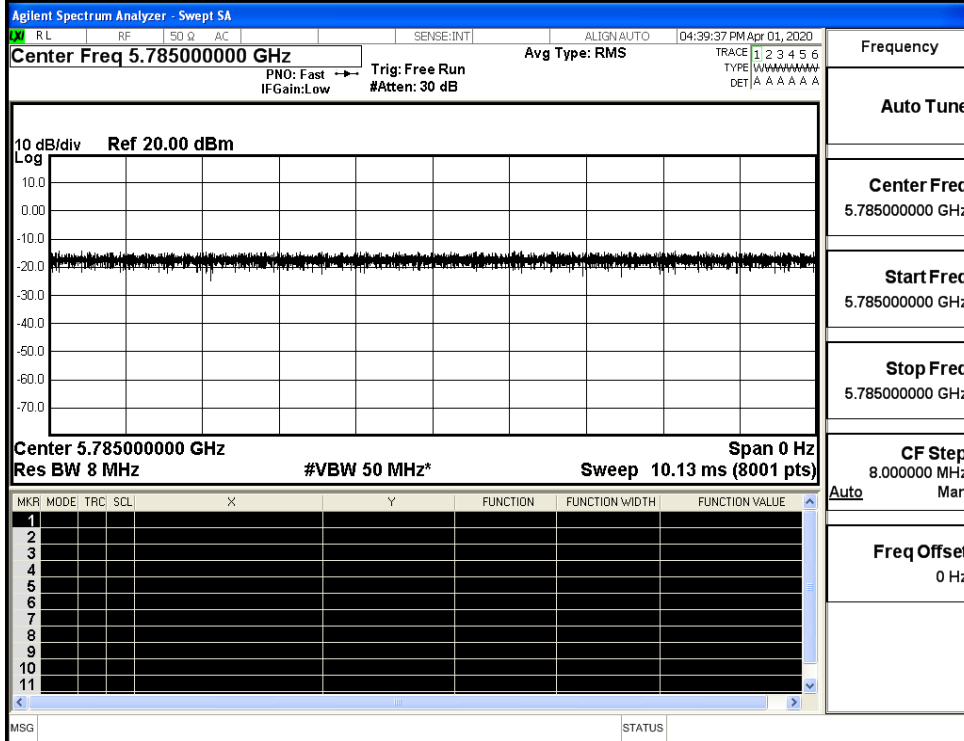
IEEE 802.11a



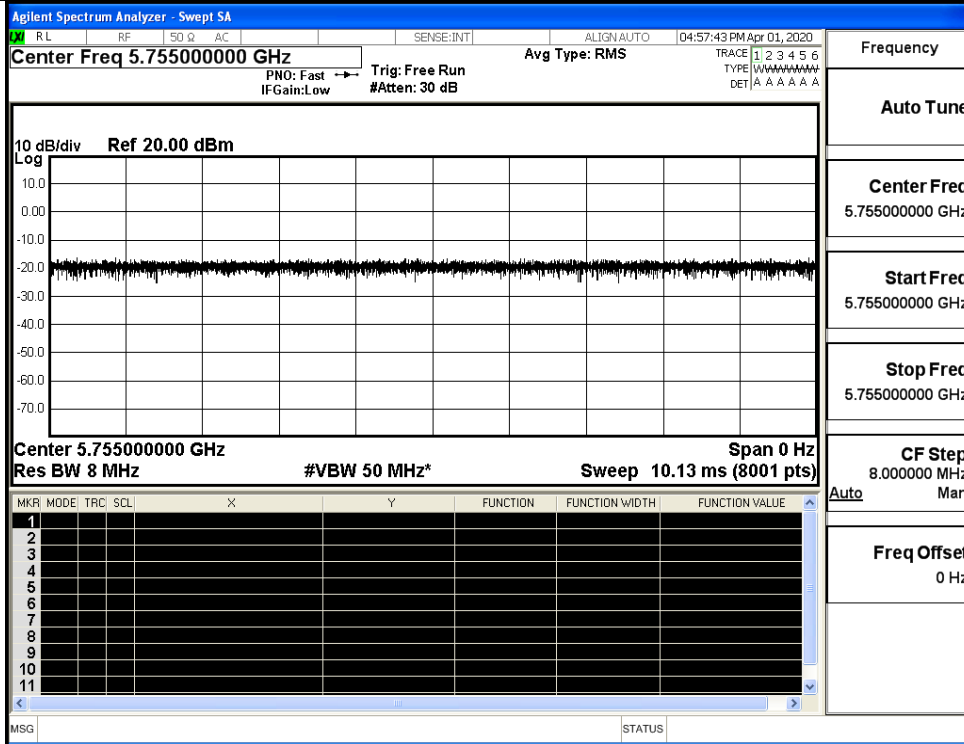
IEEE 802.11n HT20



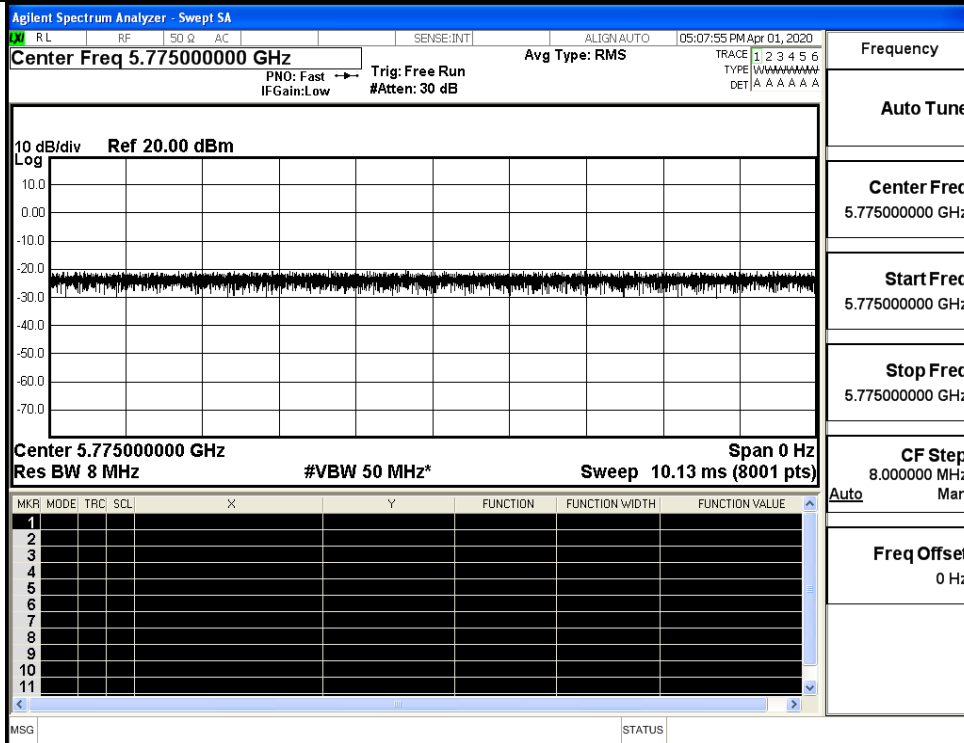
IEEE 802.11n HT40



IEEE 802.11AC20

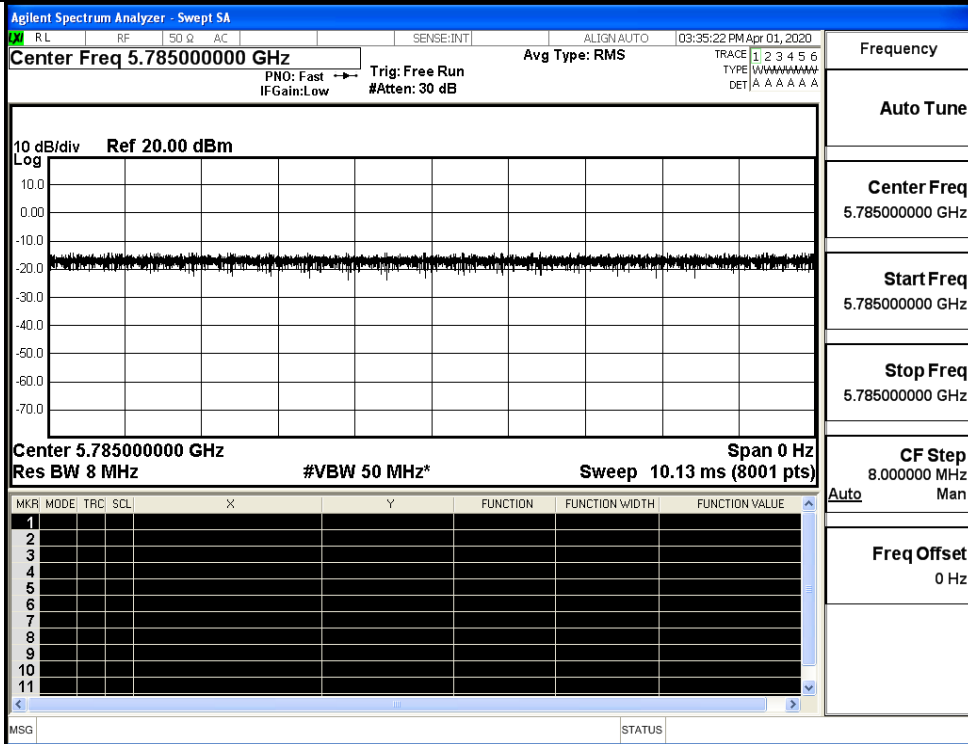


IEEE 802.11AC40

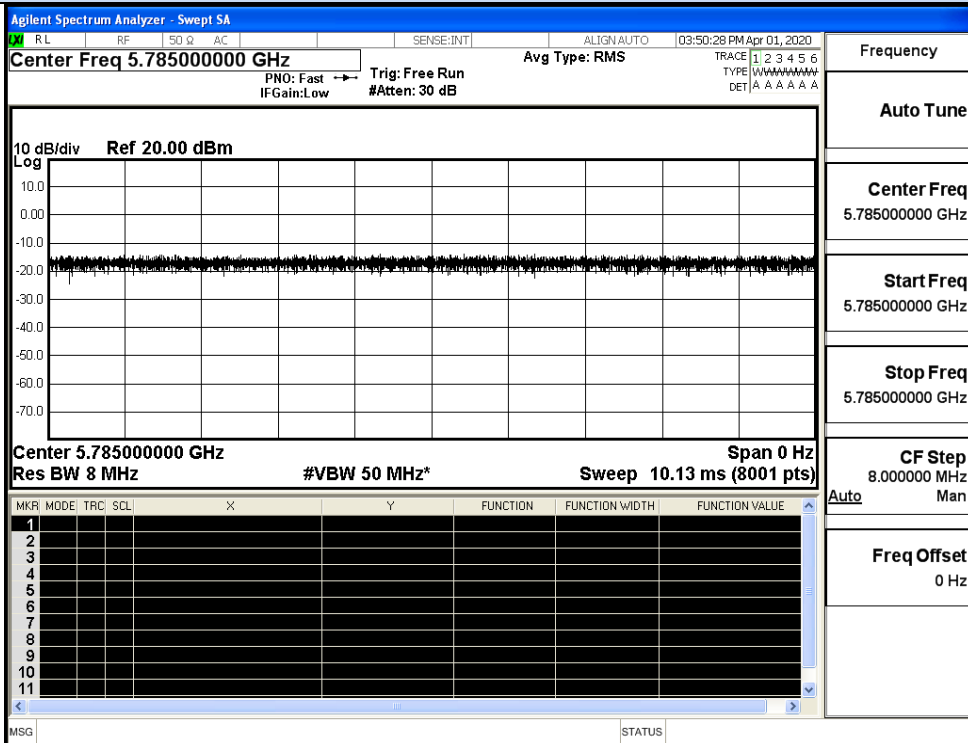


IEEE 802.11AC80

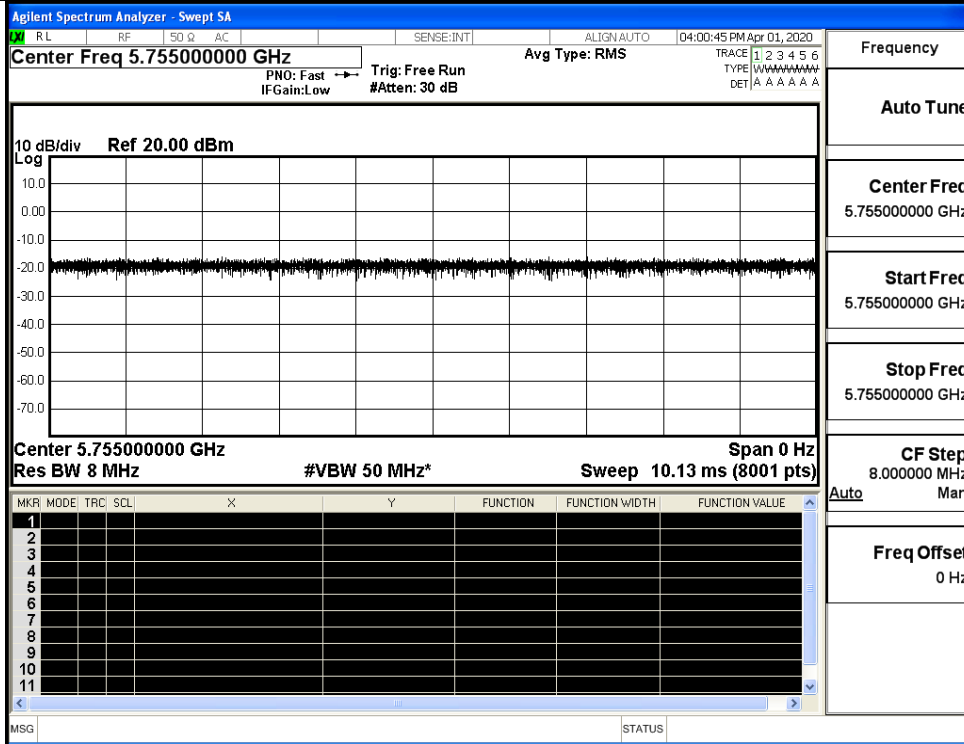
On Time and Duty Cycle_Ant_1



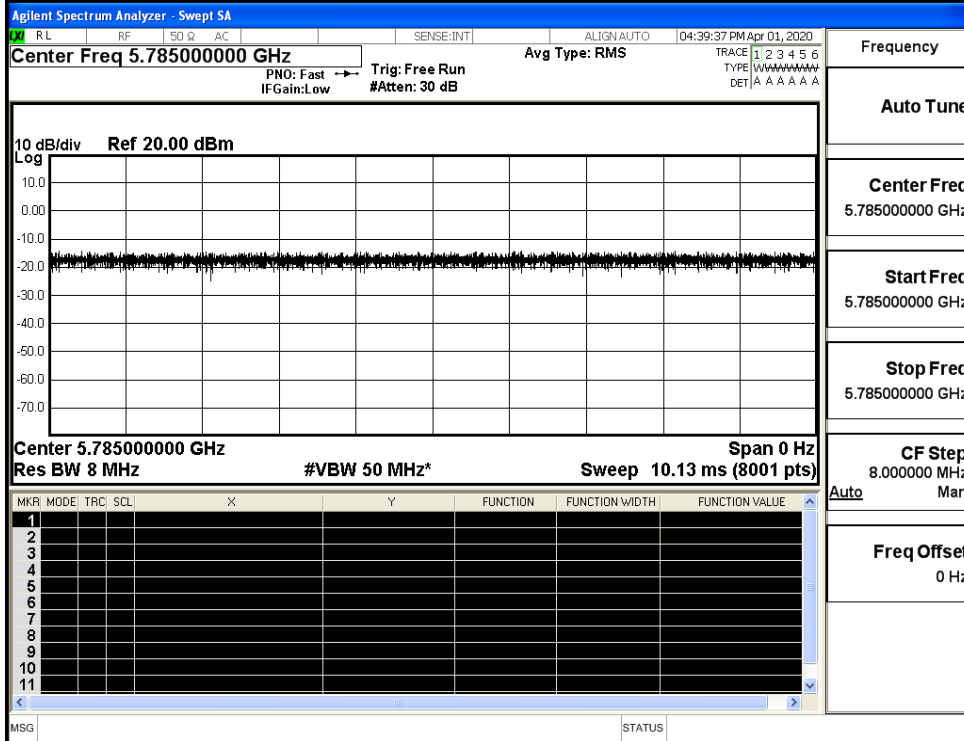
IEEE 802.11a



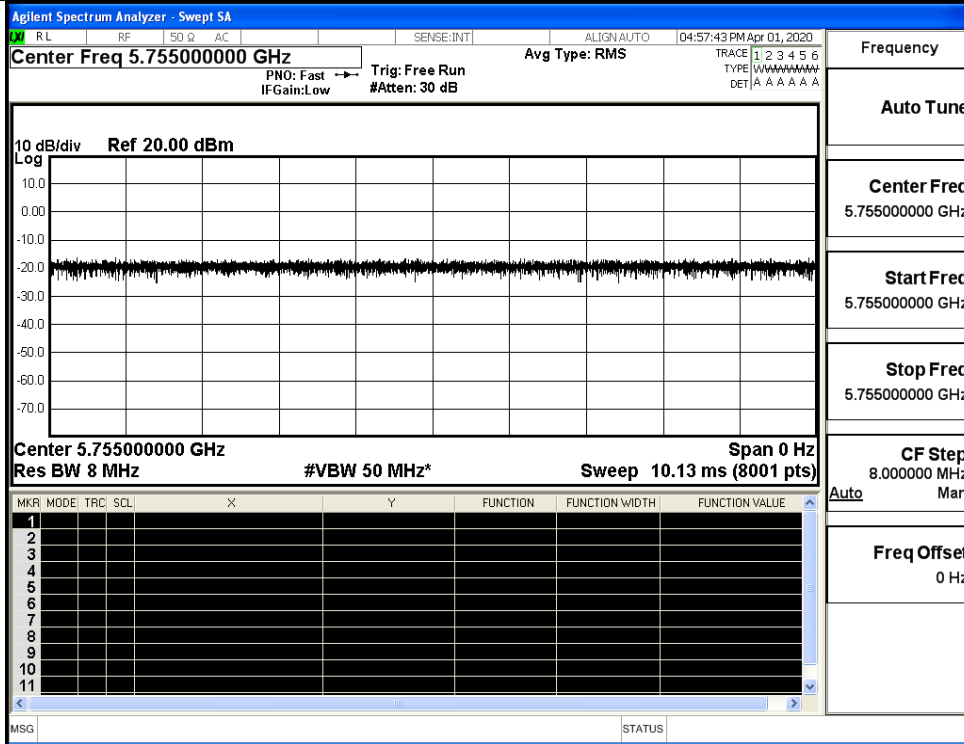
IEEE 802.11n HT20



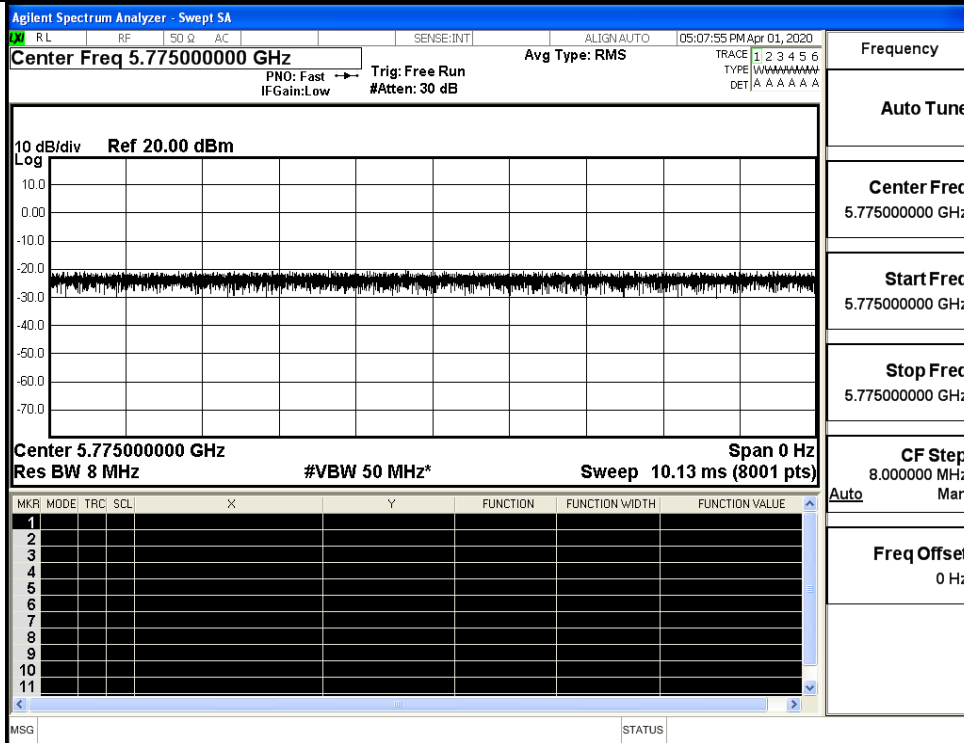
IEEE 802.11n HT40



IEEE 802.11AC20



IEEE 802.11AC40



IEEE 802.11AC80

E.2 Maximum Conduct Output Power

Ant_0

Test Mode	Channel	Frequency (MHz)	AVG Conducted Power (dBm)	Duty Cycle Factor(dB)	Report Conducted Power(dBm)	Limit (dBm)	Verdict
11A	149	5745	7.33	0	7.33	30	Pass
	157	5785	7.51	0	7.51		Pass
	165	5825	7.75	0	7.75		Pass
11N20	149	5745	7.31	0	7.31	30	Pass
	157	5785	7.46	0	7.46		Pass
	165	5825	7.75	0	7.75		Pass
11N40	151	5755	7.27	0	7.27	30	Pass
	159	5795	7.55	0	7.55		Pass
11AC20	149	5745	6.13	0	6.13	30	Pass
	157	5785	6.72	0	6.72		Pass
	165	5825	7.79	0	7.79		Pass
11AC40	151	5755	6.26	0	6.26	30	Pass
	159	5795	7.48	0	7.48		Pass
11AC80	155	5775	7.64	0	7.64	30	Pass

Ant_1

Test Mode	Channel	Frequency (MHz)	AVG Conducted Power (dBm)	Duty Cycle Factor(dB)	Report Conducted Power(dBm)	Limit (dBm)	Verdict
11A	149	5745	7.32	0	7.32	30	Pass
	157	5785	7.56	0	7.56		Pass
	165	5825	7.55	0	7.55		Pass
11N20	149	5745	7.31	0	7.31	30	Pass
	157	5785	7.61	0	7.61		Pass
	165	5825	7.64	0	7.64		Pass
11N40	151	5755	7.22	0	7.22	30	Pass
	159	5795	7.71	0	7.71		Pass
11AC20	149	5745	6.13	0	6.13	30	Pass
	157	5785	6.72	0	6.72		Pass
	165	5825	7.79	0	7.79		Pass
11AC40	151	5755	6.26	0	6.26	30	Pass
	159	5795	7.48	0	7.48		Pass
11AC80	155	5775	7.72	0	7.72	30	Pass

Antenna 0+Antenna 1

Test Mode	Channel	Frequency (MHz)	AVG Conducted Power (dBm)			Duty Cycle Factor (dB)	Report Conducted Power(dBm)			Limit (dBm)
			Ant_0	Ant_1	Sum		Ant_0	Ant_1	Sum	
11N20	149	5745	7.31	7.31	10.32	0	7.31	7.31	10.32	30
	157	5785	7.46	7.61	10.55	0	7.46	7.61	10.55	
	165	5825	7.75	7.64	10.71	0	7.75	7.64	10.71	
11N40	151	5755	7.27	7.22	10.26	0	7.27	7.22	10.26	30
	159	5795	7.55	7.71	10.64	0	7.55	7.71	10.64	
11AC20	149	5745	6.13	6.13	9.14	0	6.13	6.13	9.14	30
	157	5785	6.72	6.72	9.73	0	6.72	6.72	9.73	
	165	5825	7.79	7.79	10.80	0	7.79	7.79	10.80	
11AC40	151	5755	6.26	6.26	9.27	0	6.26	6.26	9.27	30
	159	5795	7.48	7.48	10.49	0	7.48	7.48	10.49	
11AC80	155	5775	7.64	7.72	10.69	0	7.64	7.72	10.69	30

E.3 Power Spectral Density

Ant_0

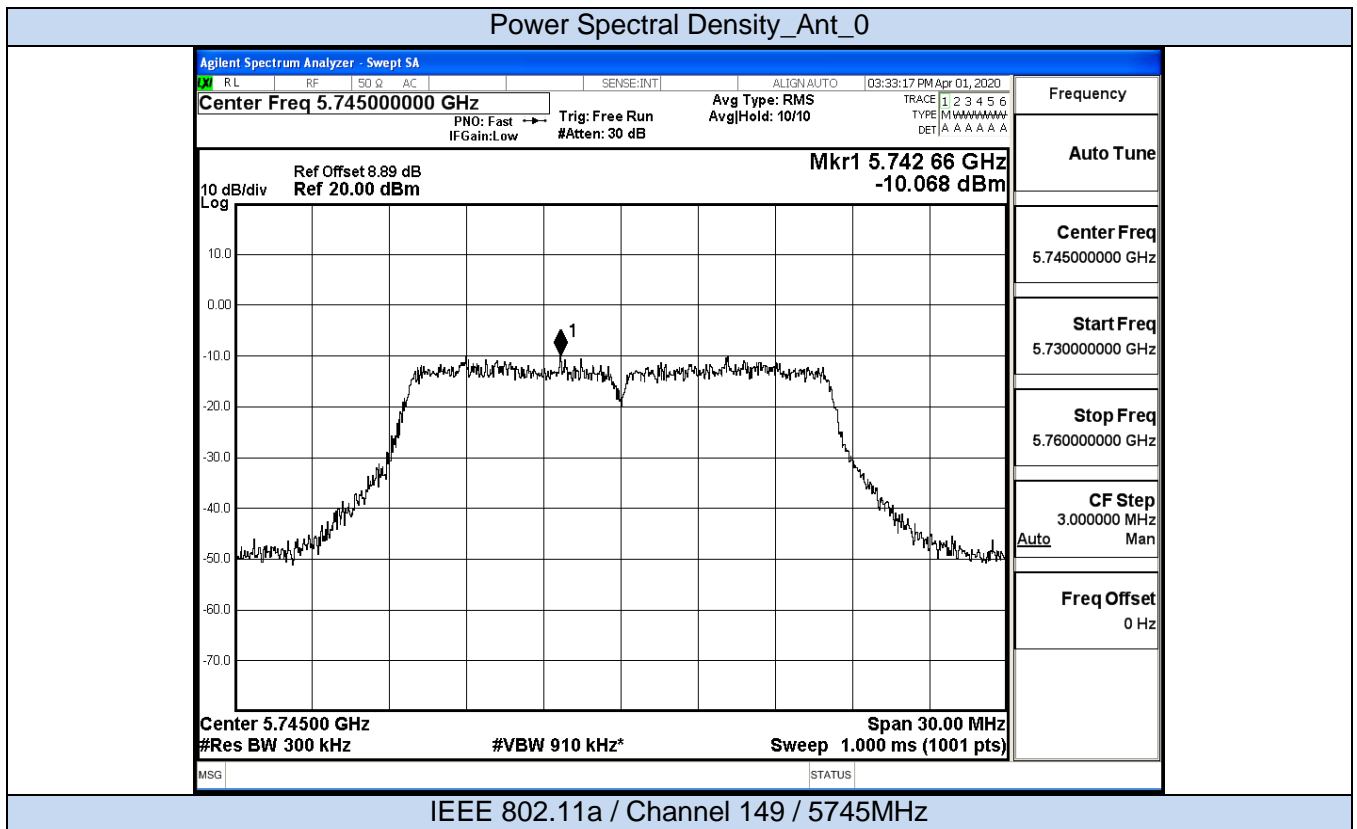
Test Mode	Channel	Frequency (MHz)	Power Density (dBm/300KHz)	Duty Cycle Factor (dB)	RBW Factor (dB)	Report Power Density (dBm/500KHz)	Limit (dBm/500KHz)	Verdict
11A	149	5745	-10.07	0	2.218	-7.85	30	Pass
	157	5785	-10.86	0	2.218	-8.65		Pass
	165	5825	-12.40	0	2.218	-10.18		Pass
11N20	149	5745	-10.70	0	2.218	-8.48	30	Pass
	157	5785	-10.28	0	2.218	-8.06		Pass
	165	5825	-13.02	0	2.218	-10.80		Pass
11N40	151	5755	-14.87	0	2.218	-12.66	30	Pass
	159	5795	-15.69	0	2.218	-13.47		Pass
11AC20	149	5745	-10.28	0	2.218	-8.06	30	Pass
	157	5785	-11.79	0	2.218	-9.57		Pass
	165	5825	-11.83	0	2.218	-9.61		Pass
11AC40	151	5755	-14.13	0	2.218	-11.91	30	Pass
	159	5795	-15.86	0	2.218	-13.64		Pass
11AC80	155	5775	-17.32	0	2.218	-15.10	30	Pass

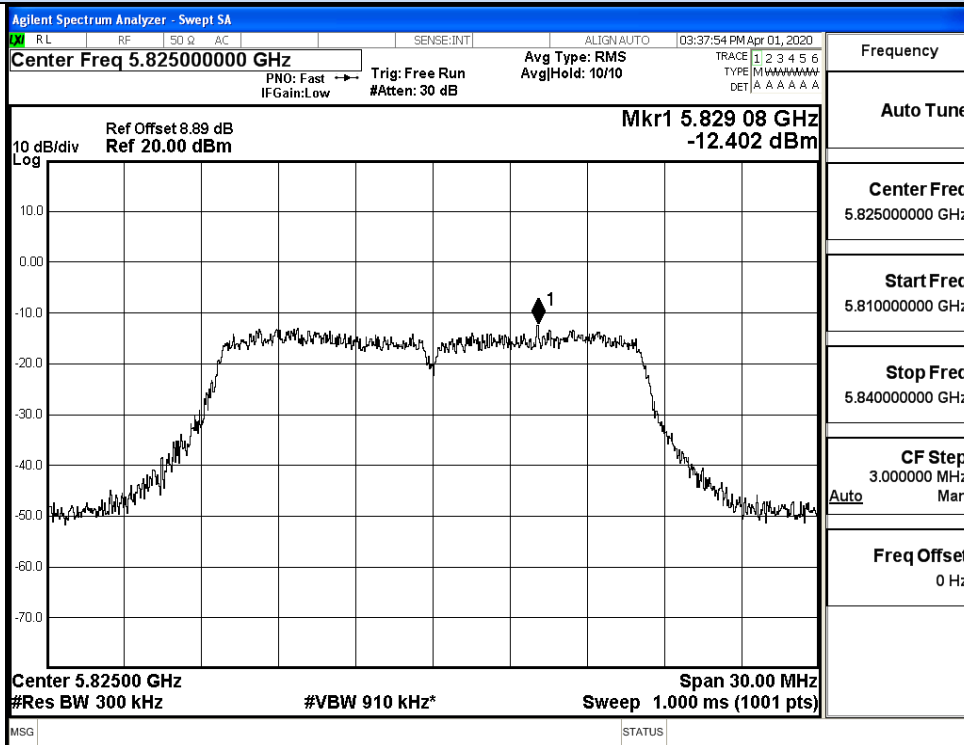
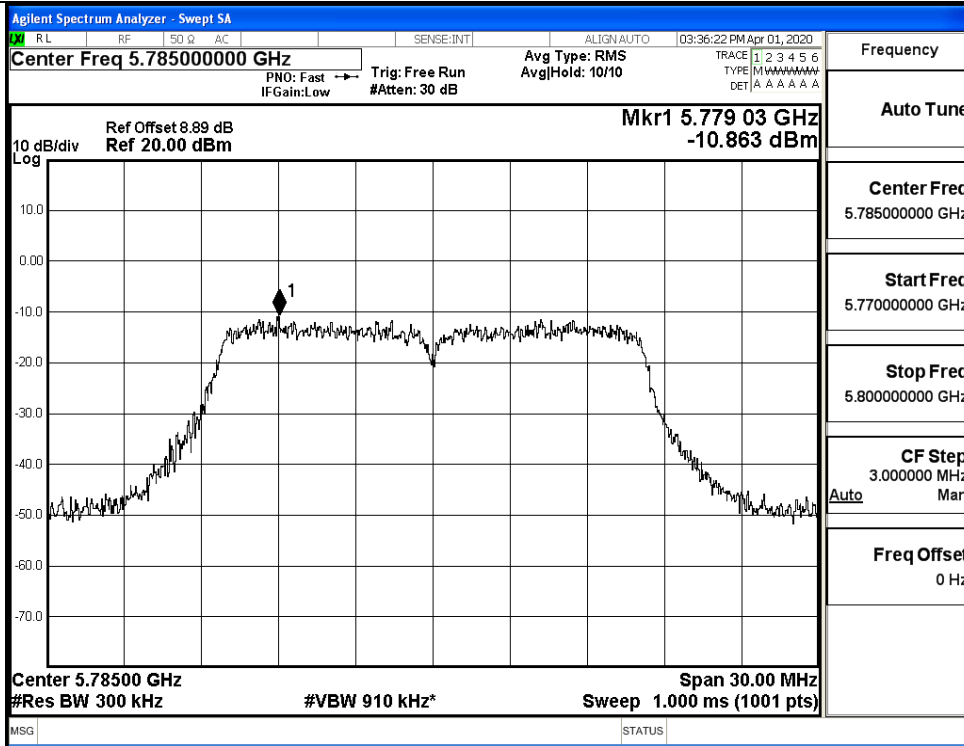
Ant_1

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
11A	149	5745	-3.57	0	2.218	-1.35	30	Pass
	157	5785	-3.72	0	2.218	-1.50		Pass
	165	5825	-4.78	0	2.218	-2.56		Pass
11N20	149	5745	-4.18	0	2.218	-1.96	30	Pass
	157	5785	-3.33	0	2.218	-1.11		Pass
	165	5825	-4.43	0	2.218	-2.22		Pass
11N40	151	5755	-6.79	0	2.218	-4.57	30	Pass
	159	5795	-6.84	0	2.218	-4.62		Pass
11AC20	149	5745	-3.82	0	2.218	-1.60	30	Pass
	157	5785	-3.53	0	2.218	-1.31		Pass
	165	5825	-4.50	0	2.218	-2.29		Pass
11AC40	151	5755	-6.78	0	2.218	-4.56	30	Pass
	159	5795	-6.80	0	2.218	-4.58		Pass
11AC80	155	5775	-11.22	0	2.218	-9.00	30	Pass

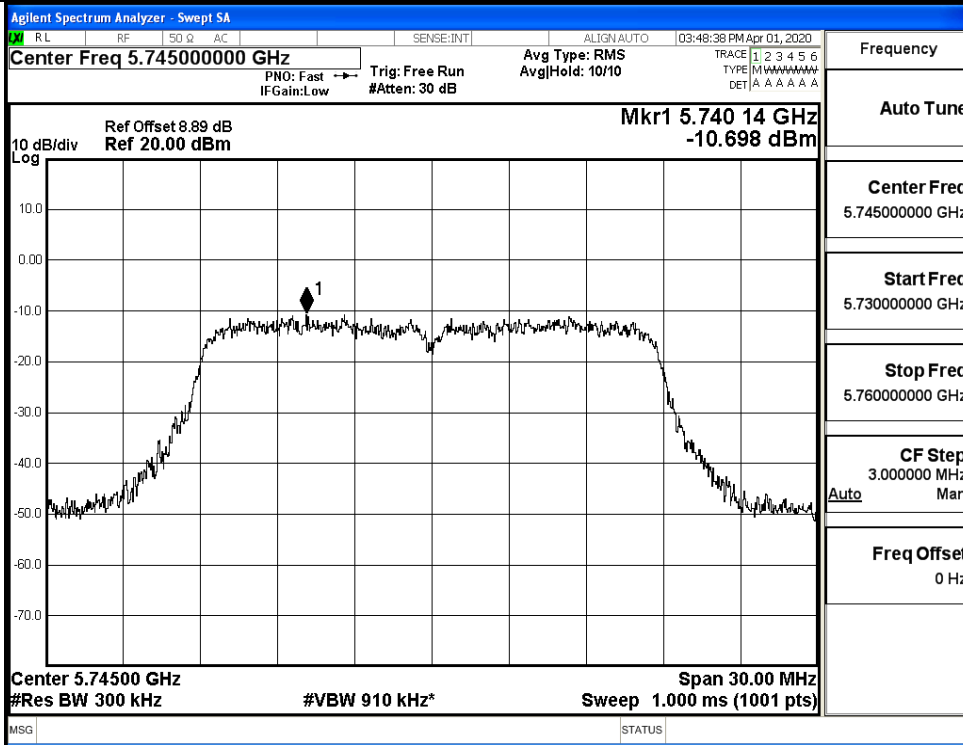
Combined Ant_0 and Ant_1

Test Mode	Channel	Frequency (MHz)	Power Density (dBm/300KHz)			Duty Cycle Factor (dB)	RBW Factor (dB)	Report Power Density (dBm/500KHz)			Limit (dBm/500 KHz)
			Ant_0	Ant_1	Sum			Ant_0	Ant_1	Sum	
11N20	149	5745	-10.70	-4.18	-3.31	0	2.218	-8.48	-1.96	-1.09	30
	157	5785	-10.28	-3.33	-2.53	0	2.218	-8.06	-1.11	-0.31	
	165	5825	-13.02	-4.43	-3.87	0	2.218	-10.80	-2.22	-1.66	
11N40	151	5755	-14.87	-6.79	-6.16	0	2.218	-12.66	-4.57	-3.94	30
	159	5795	-15.69	-6.84	-6.31	0	2.218	-13.47	-4.62	-4.09	
11AC20	149	5745	-10.28	-3.82	-2.94	0	2.218	-8.06	-1.60	-0.72	30
	157	5785	-11.79	-3.53	-2.93	0	2.218	-9.57	-1.31	-0.71	
	165	5825	-11.83	-4.50	-3.76	0	2.218	-9.61	-2.29	-1.55	
11AC40	151	5755	-14.13	-6.78	-6.05	0	2.218	-11.91	-4.56	-3.83	30
	159	5795	-15.86	-6.80	-6.29	0	2.218	-13.64	-4.58	-4.07	
11AC80	155	5775	-17.32	-11.22	-10.27	0	2.218	-15.10	-9.00	-8.05	30

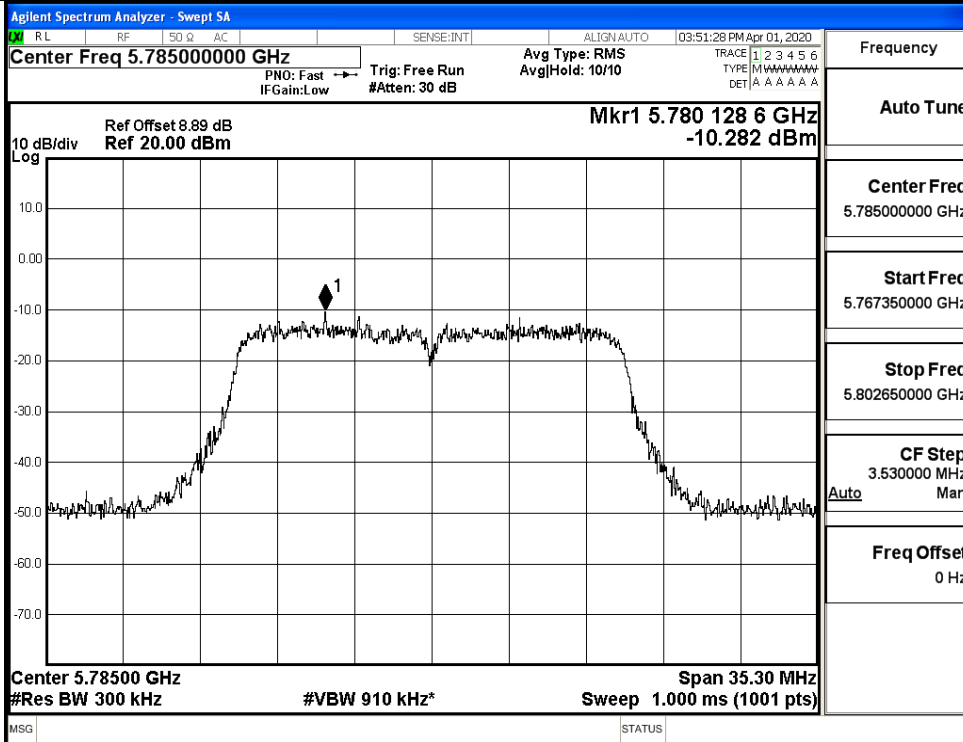




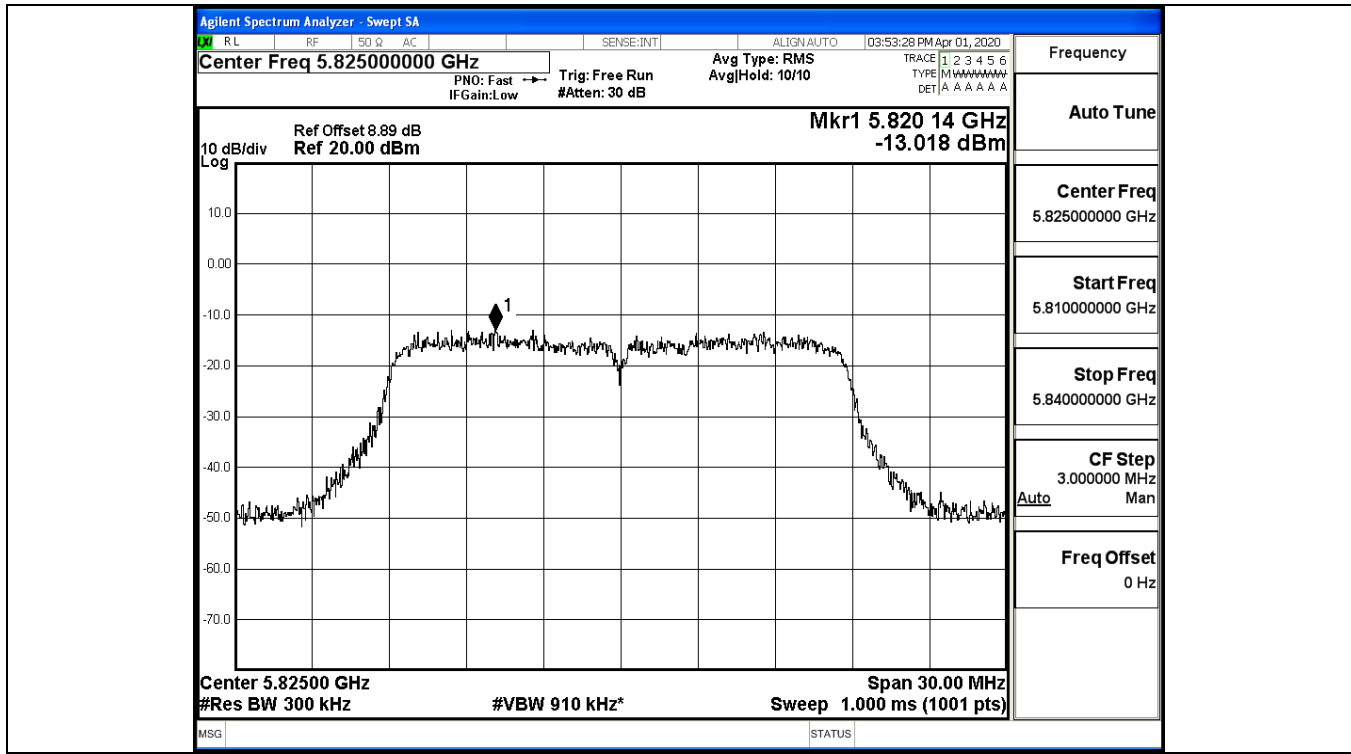
Power Spectral Density



IEEE 802.11n20 / Channel 149 / 5745MHz

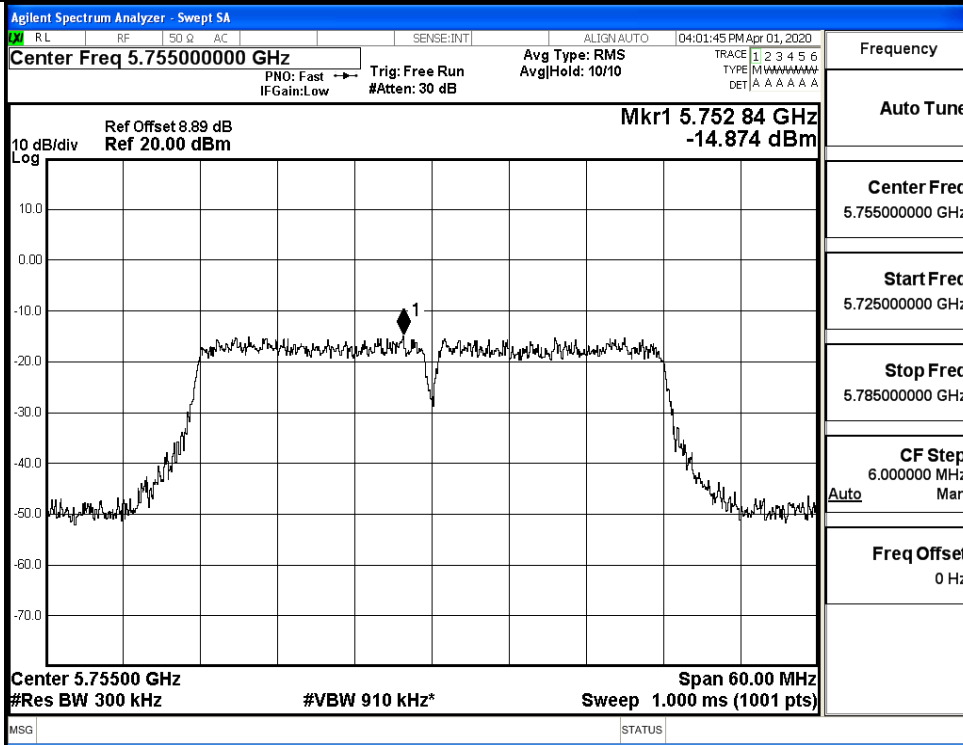


IEEE 802.11n20 / Channel 157 / 5785MHz

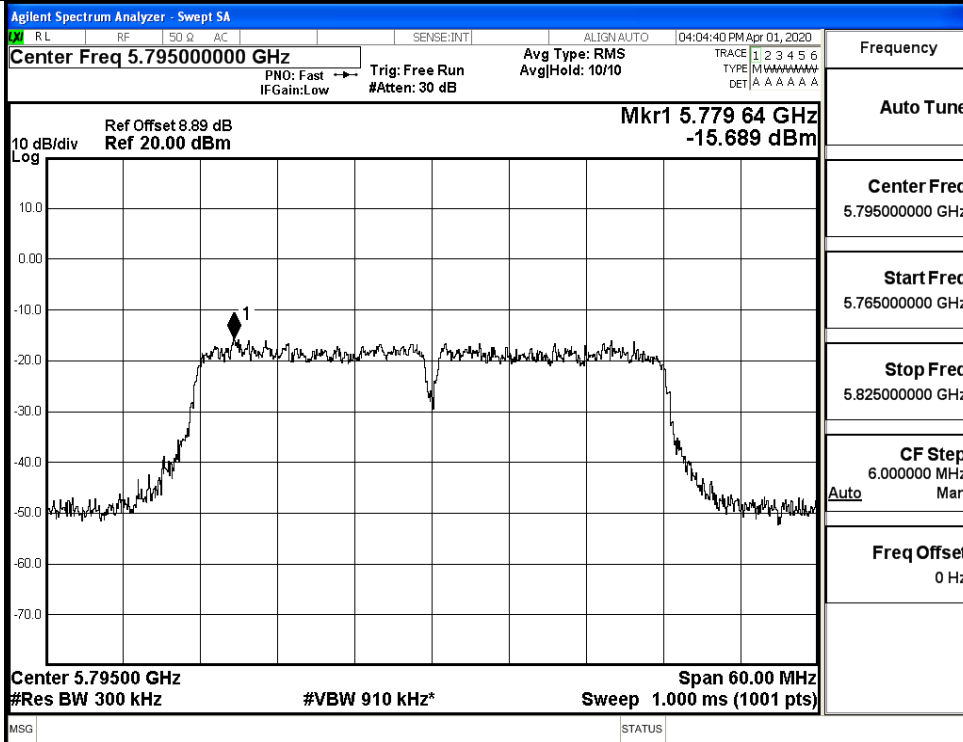


IEEE 802.11n20 / Channel 165 / 5825MHz

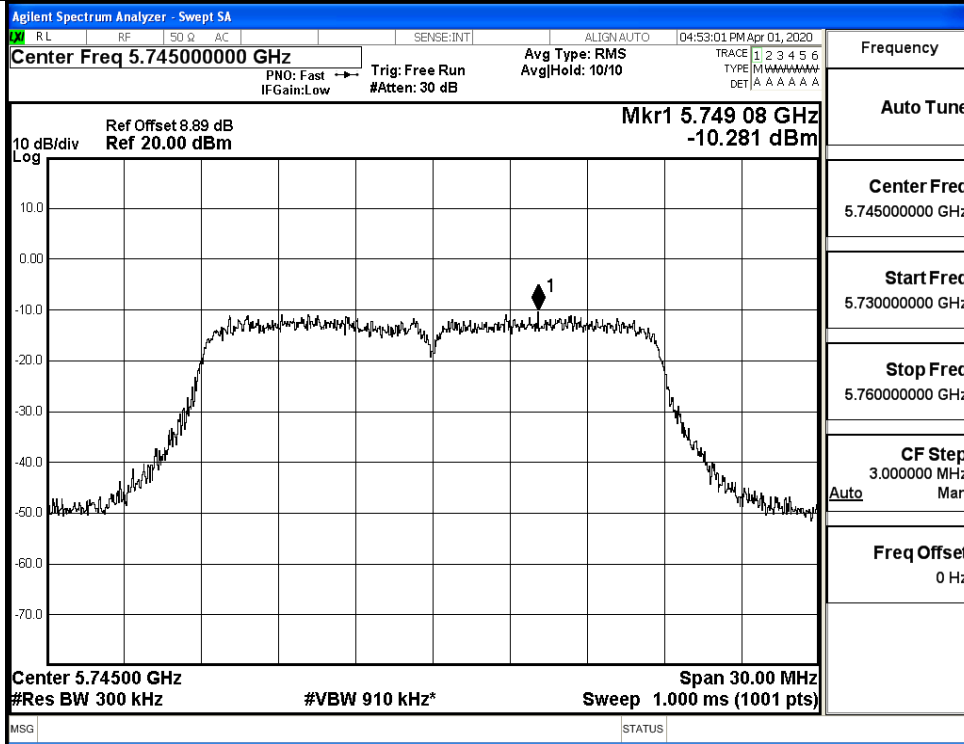
Power Spectral Density



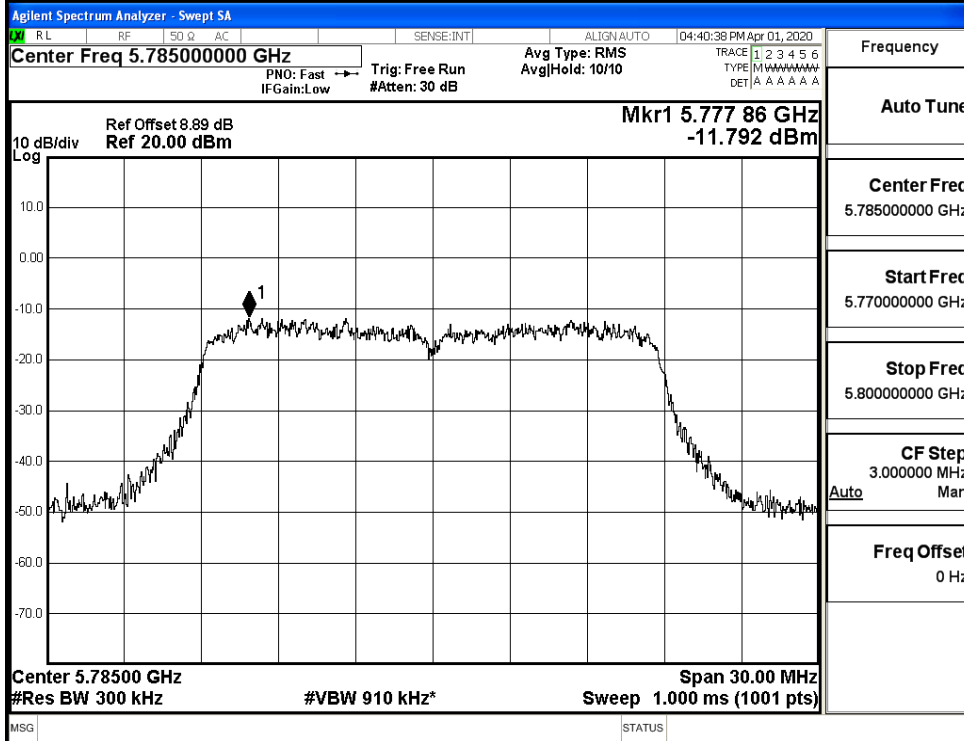
IEEE 802.11n40 / Channel 151 / 5755MHz



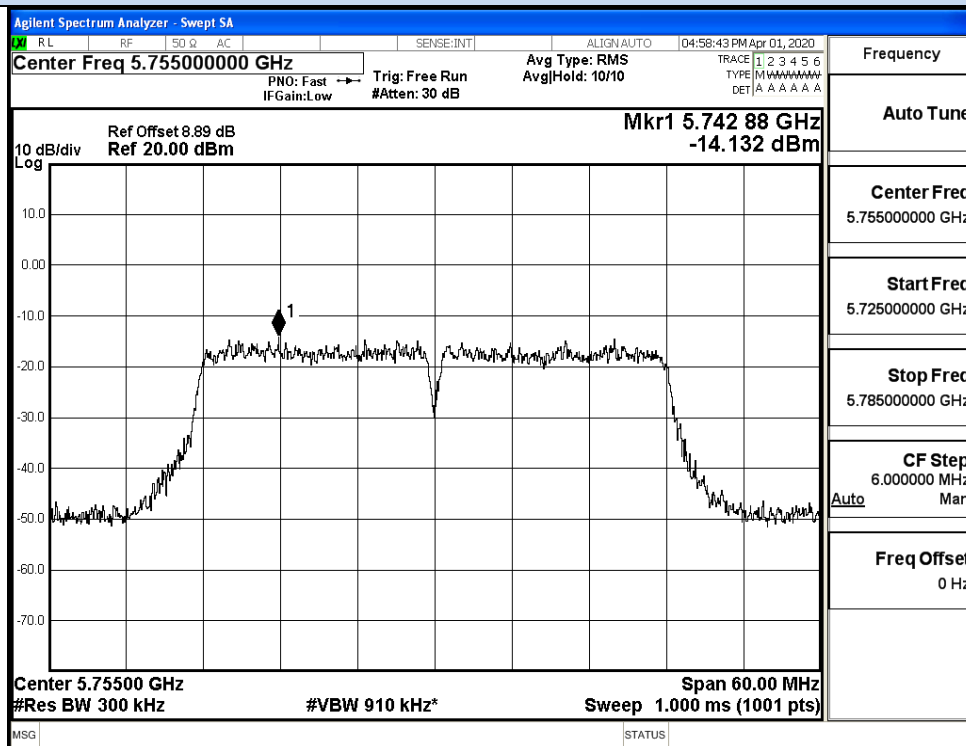
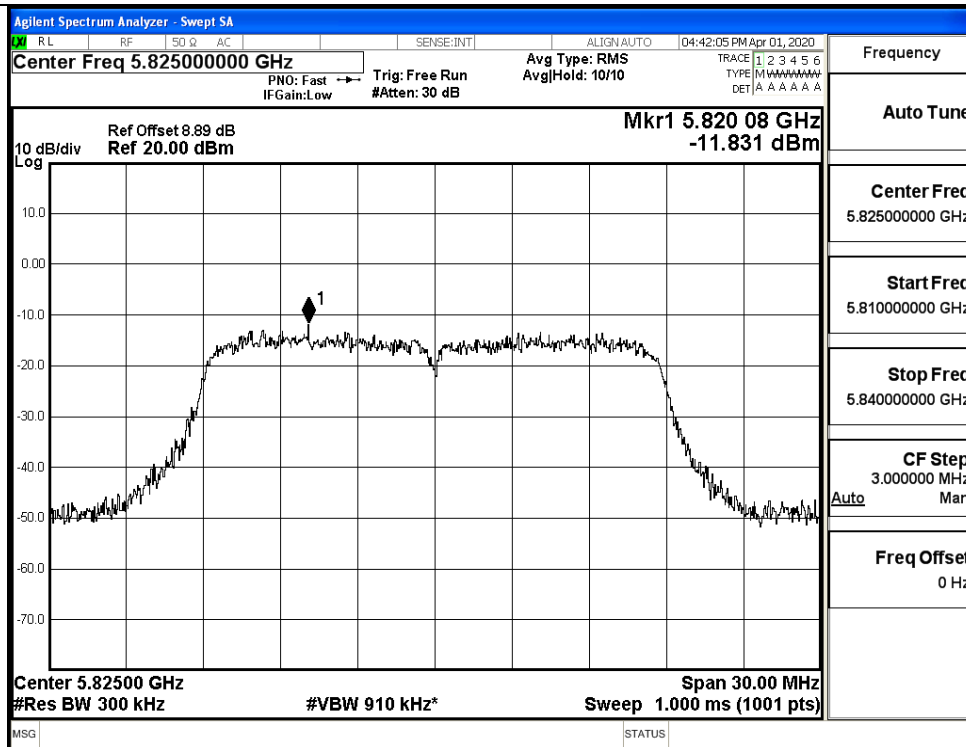
IEEE 802.11n40 / Channel 159 / 5795MHz

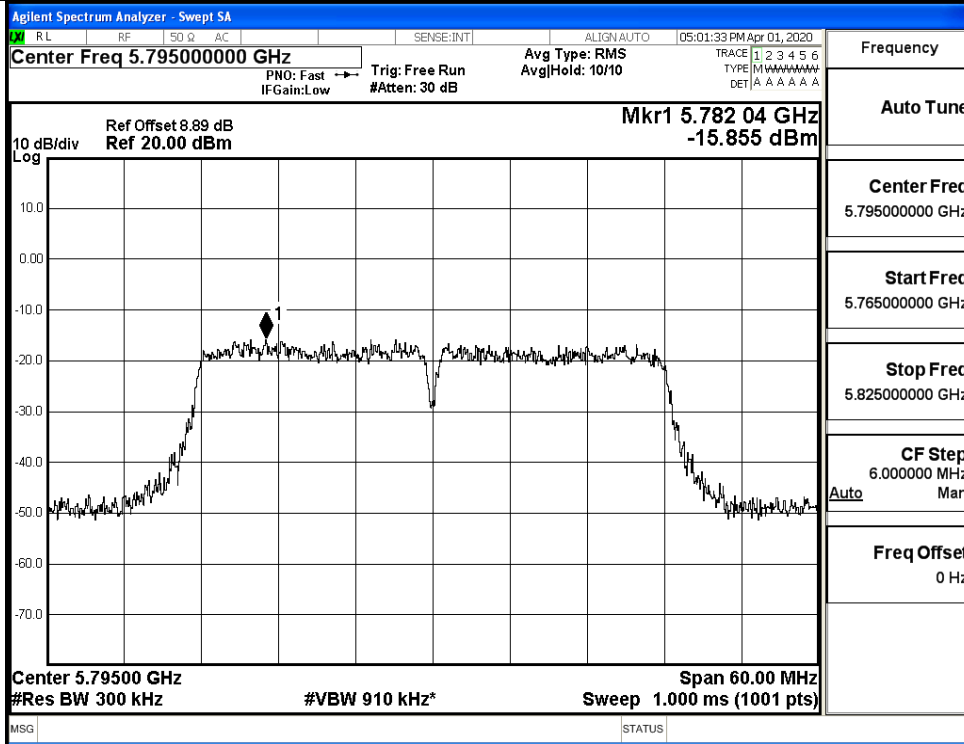


IEEE 802.11ac20 / Channel 149 / 5745MHz

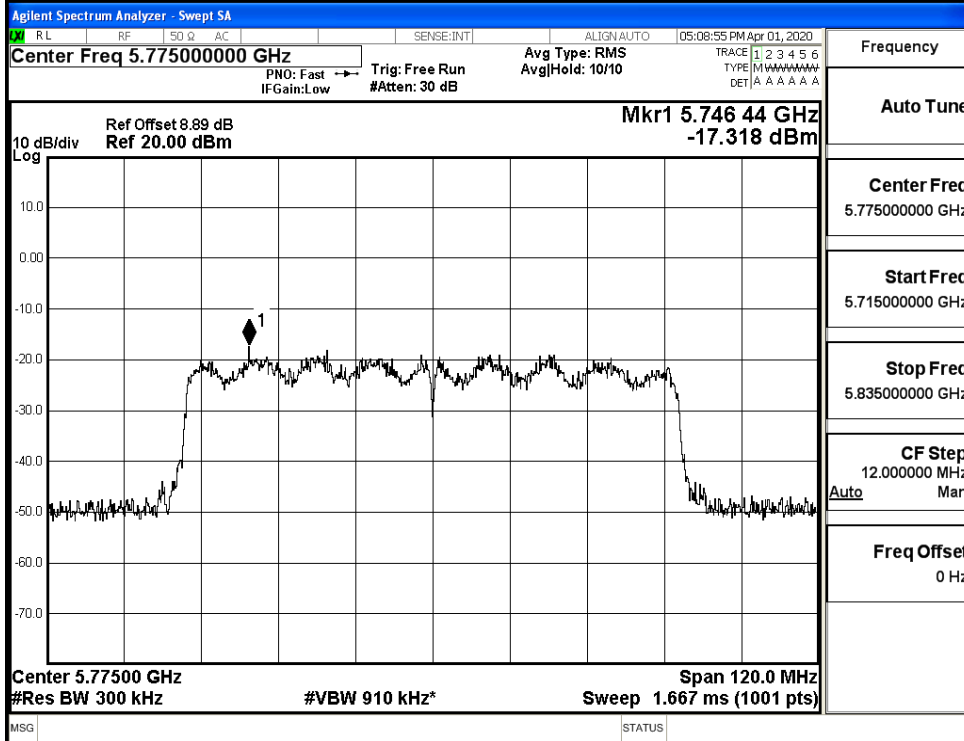


IEEE 802.11ac20 / Channel 157 / 5785MHz



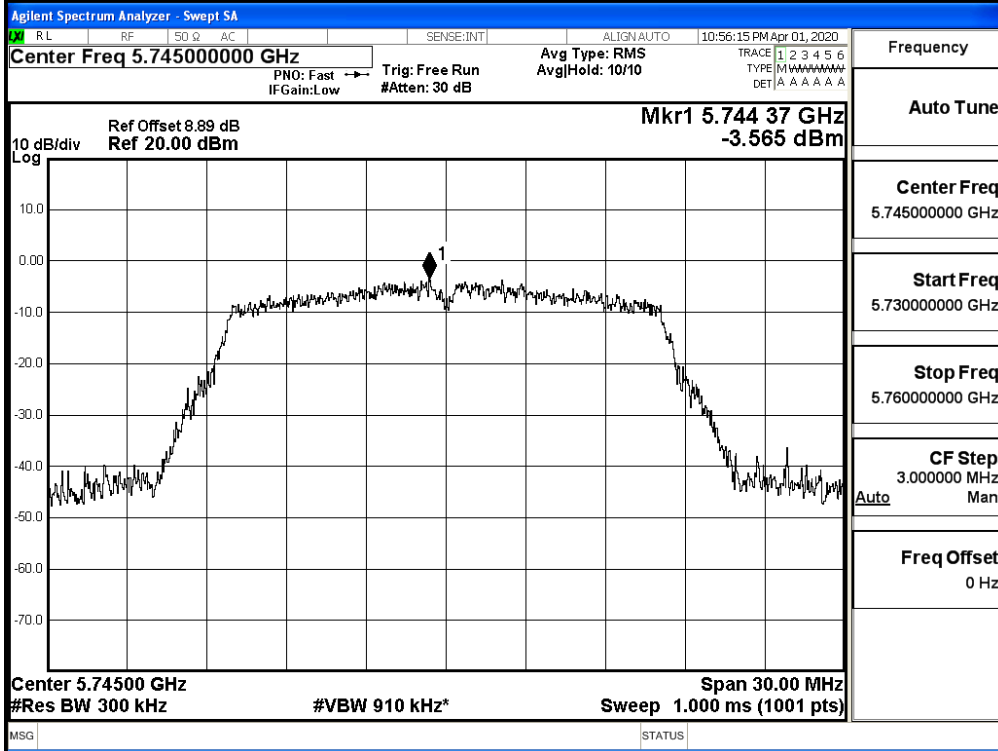


IEEE 802.11ac40 / Channel 159 / 5795MHz

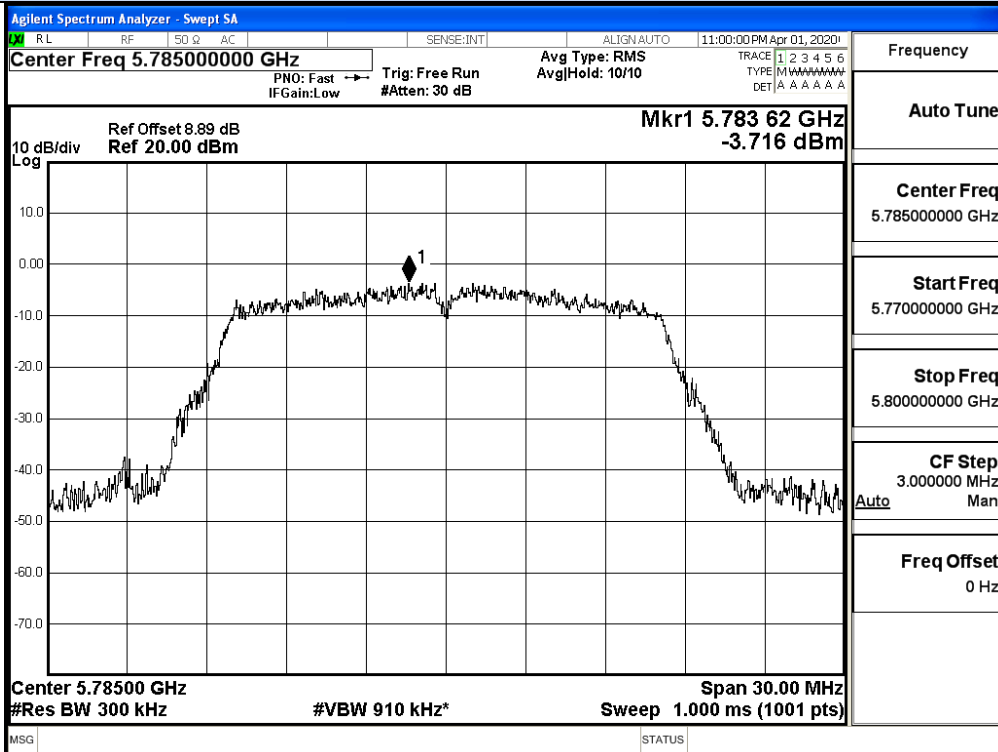


IEEE 802.11ac80 / Channel 155/ 5775MHz

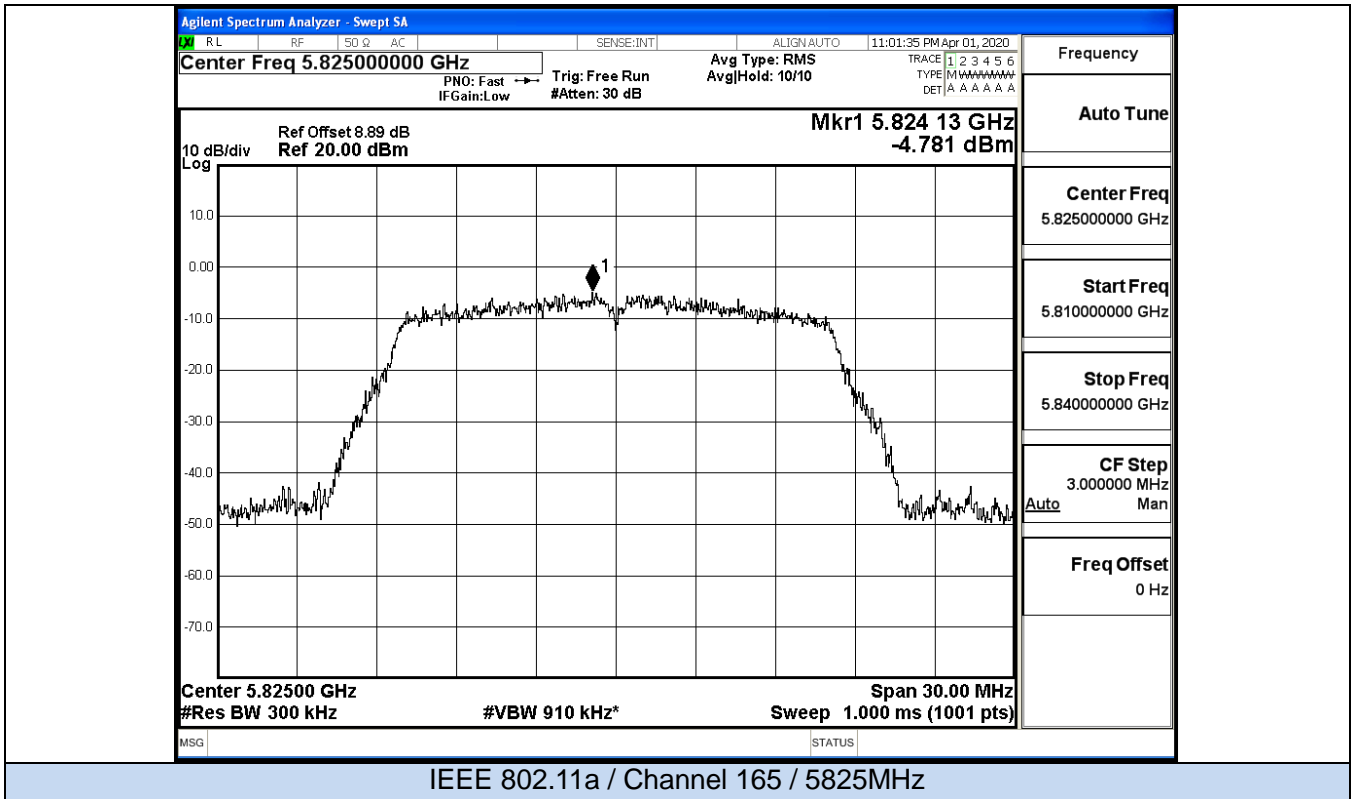
Power Spectral Density_Ant_1



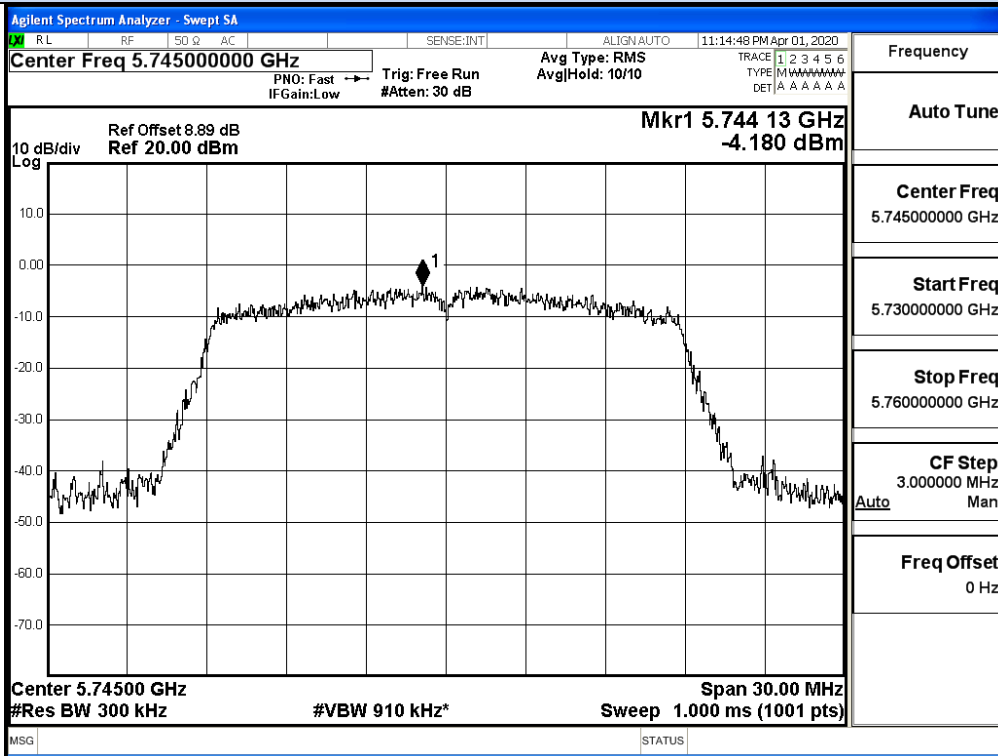
IEEE 802.11a / Channel 149 / 5745MHz



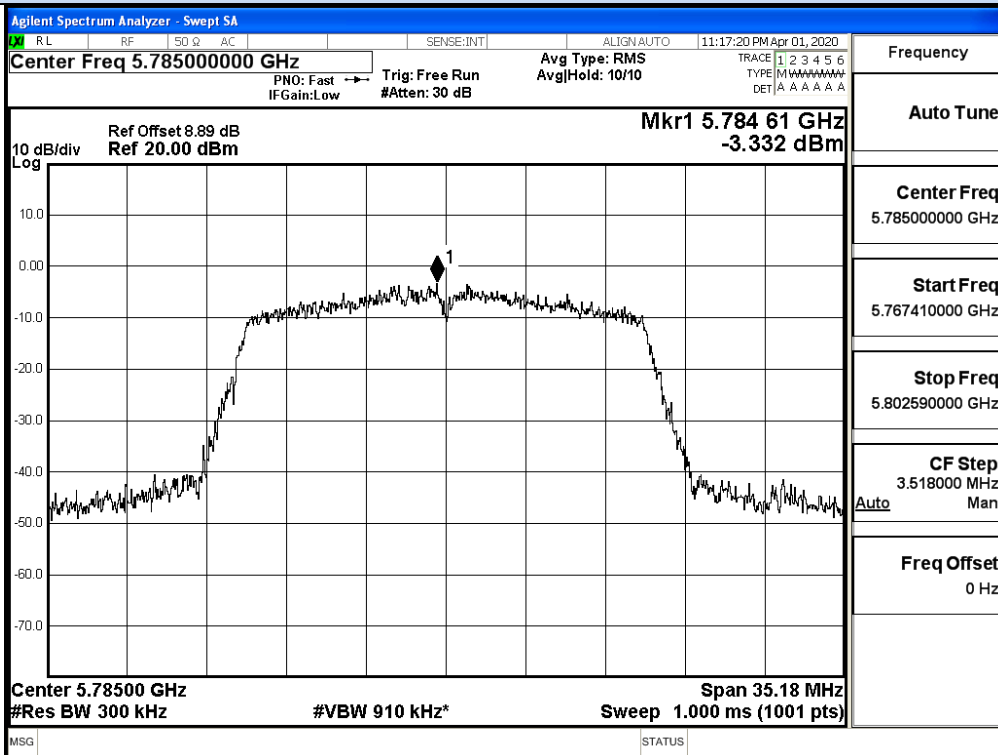
IEEE 802.11a / Channel 157 / 5785MHz



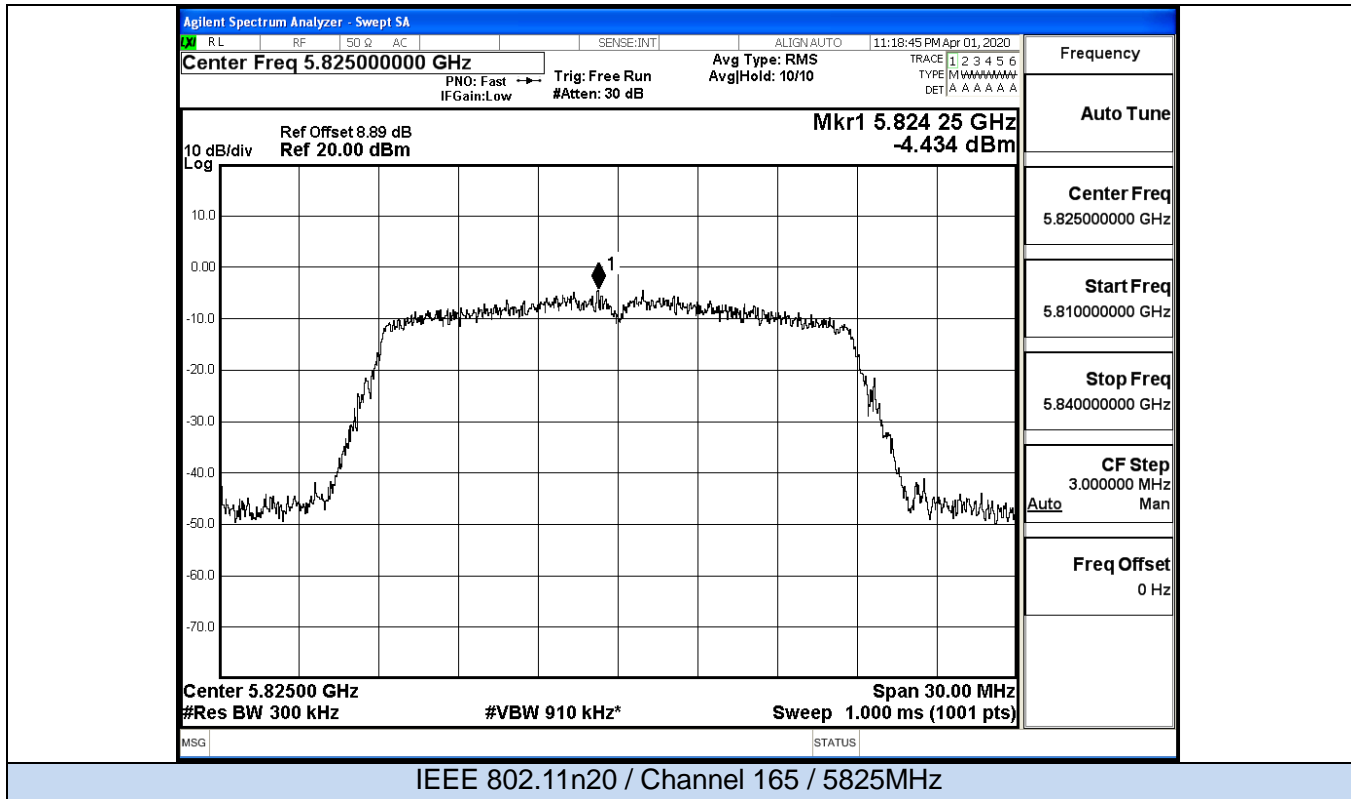
Power Spectral Density



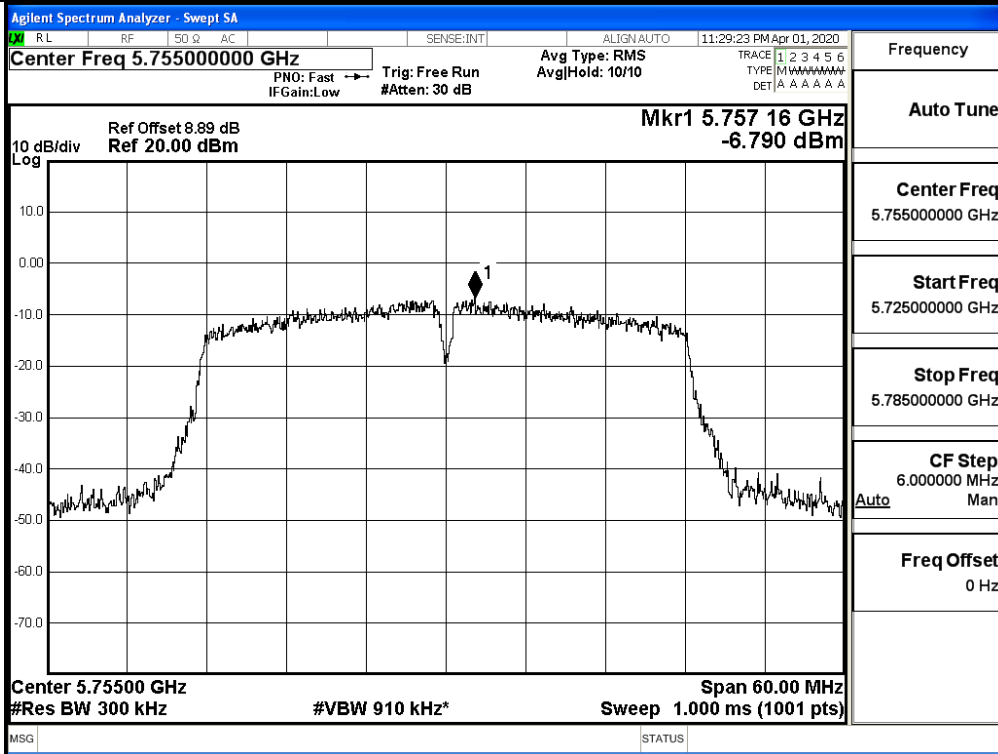
IEEE 802.11n20 / Channel 149 / 5745MHz



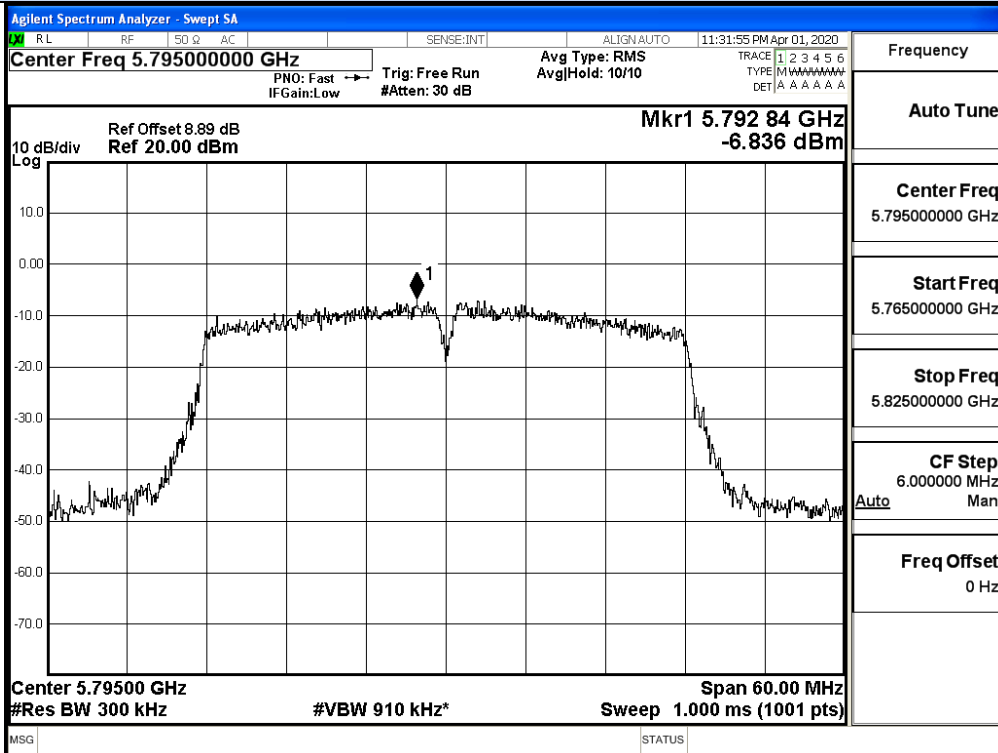
IEEE 802.11n20 / Channel 157 / 5785MHz



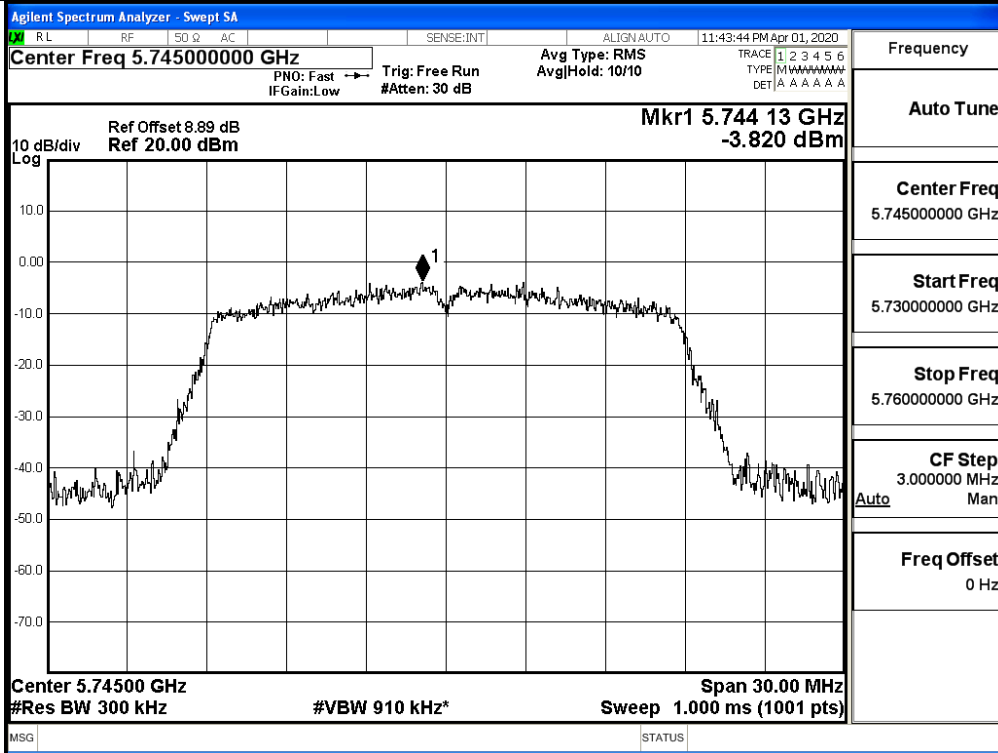
Power Spectral Density



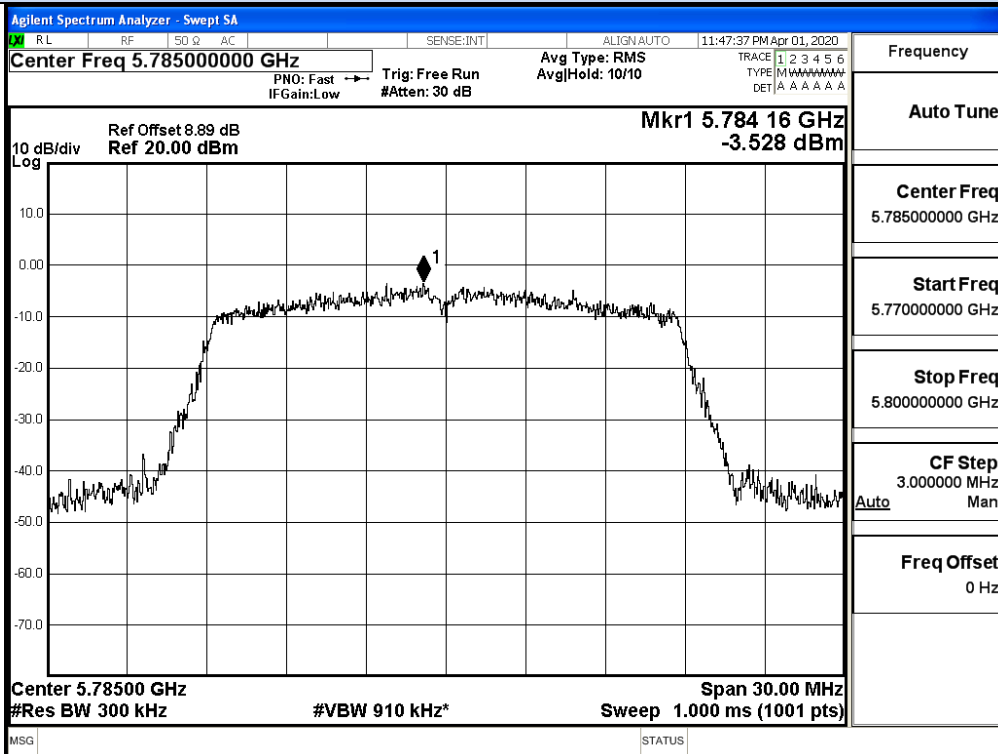
IEEE 802.11n40 / Channel 151 / 5755MHz



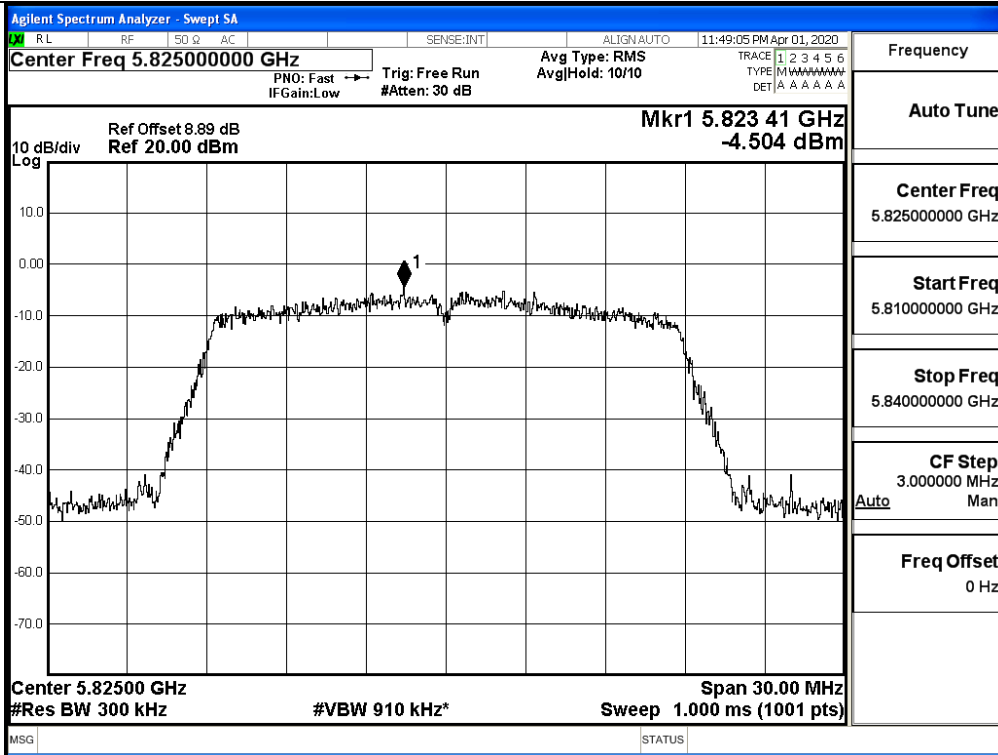
IEEE 802.11n40 / Channel 159 / 5795MHz



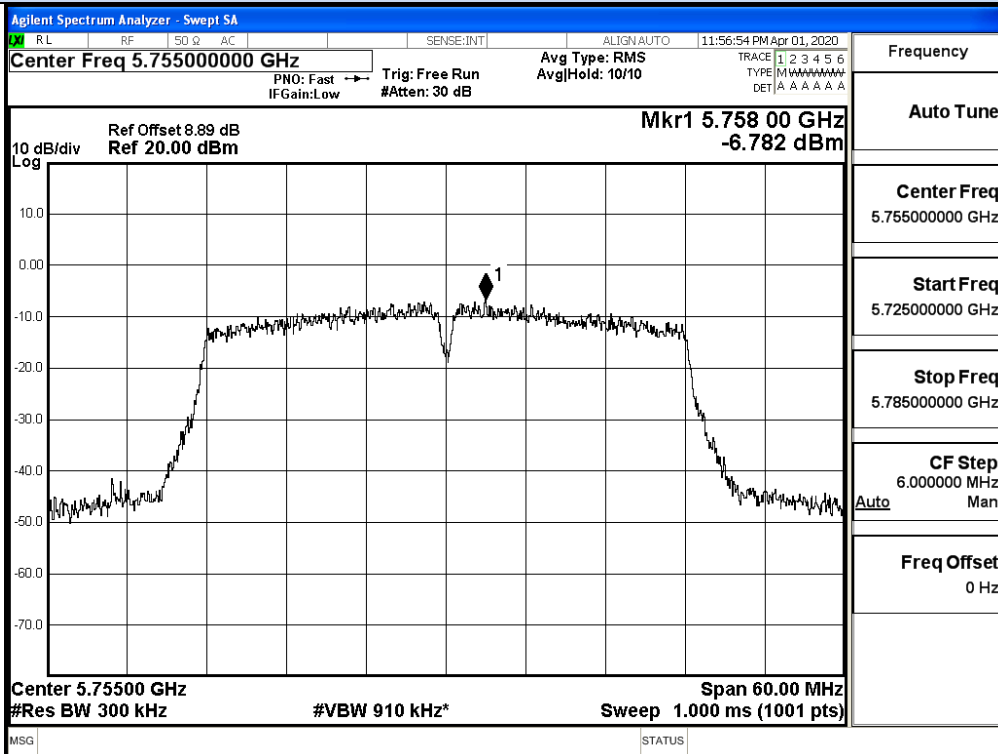
IEEE 802.11ac20 / Channel 149 / 5745MHz



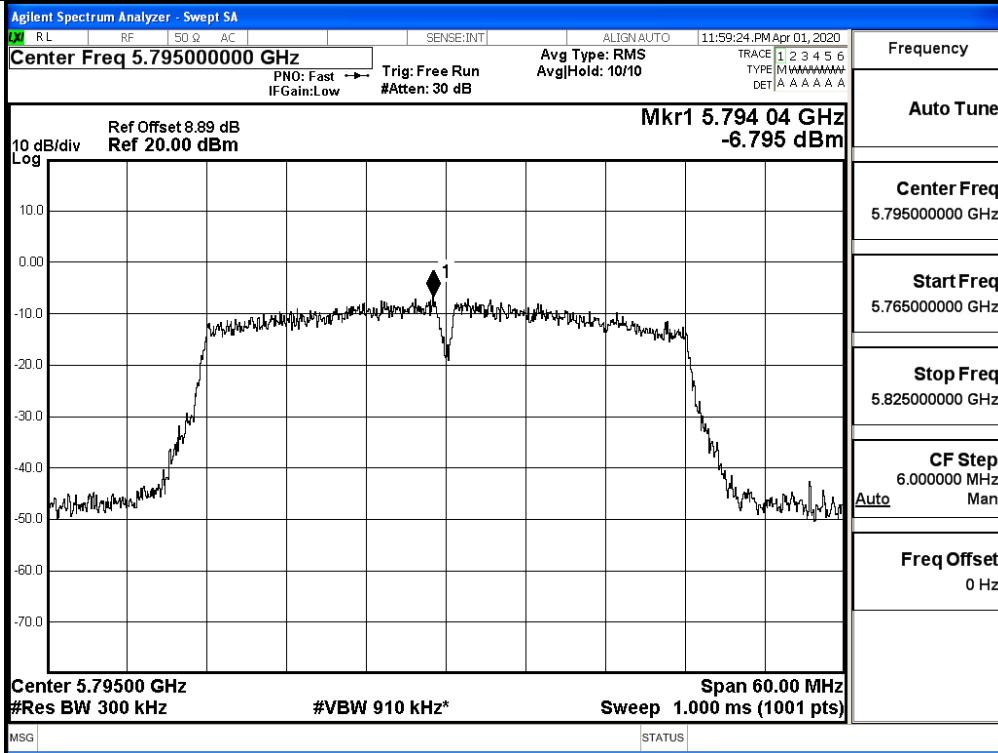
IEEE 802.11ac20 / Channel 157 / 5785MHz



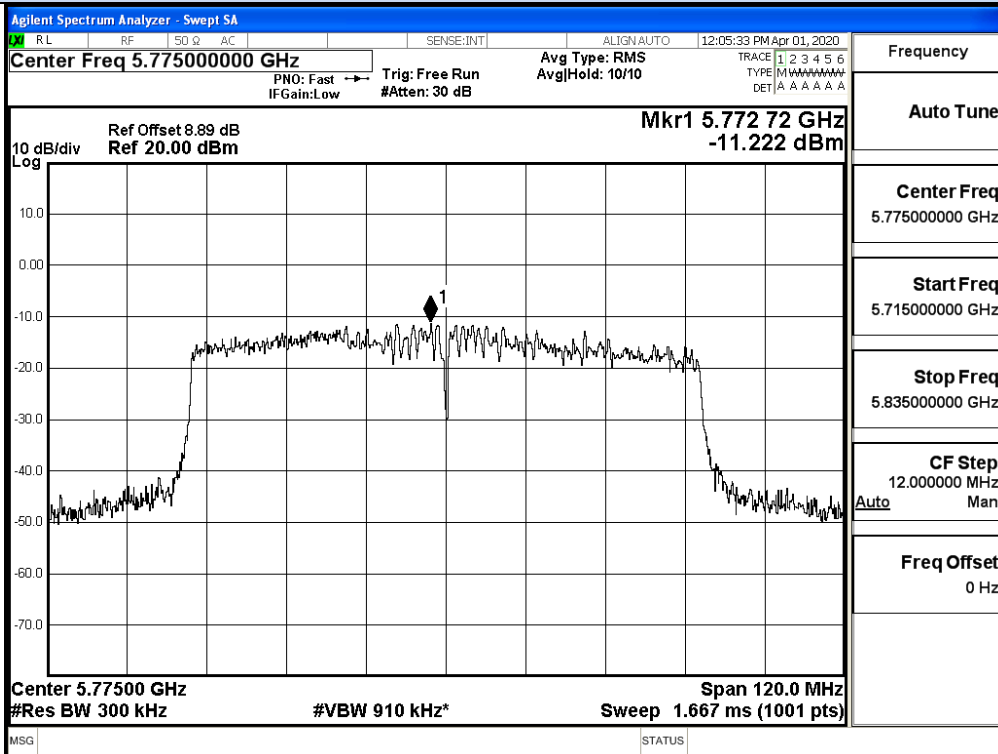
IEEE 802.11ac20 / Channel 165 / 5825MHz



IEEE 802.11ac40 / Channel 151 / 5755MHz



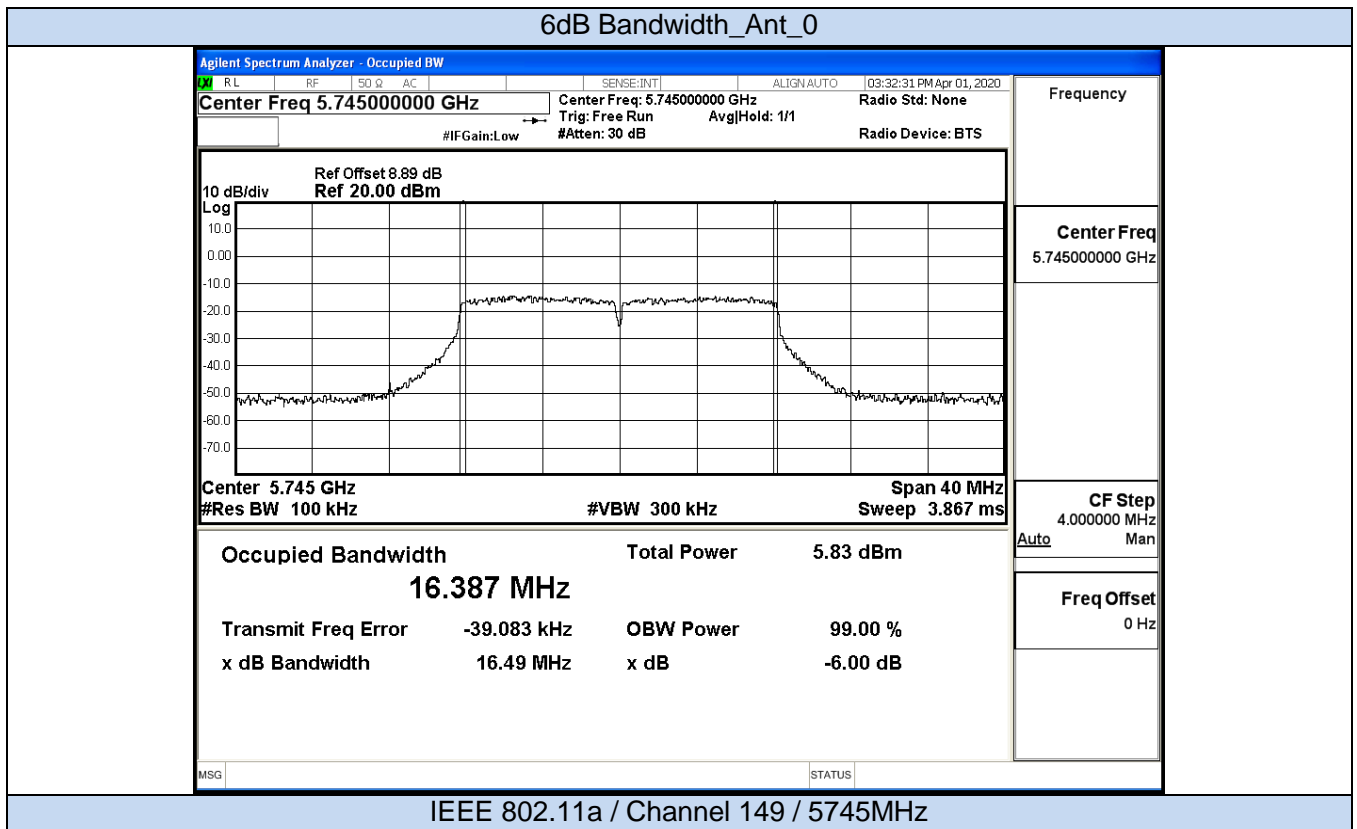
IEEE 802.11ac40 / Channel 159 / 5795MHz

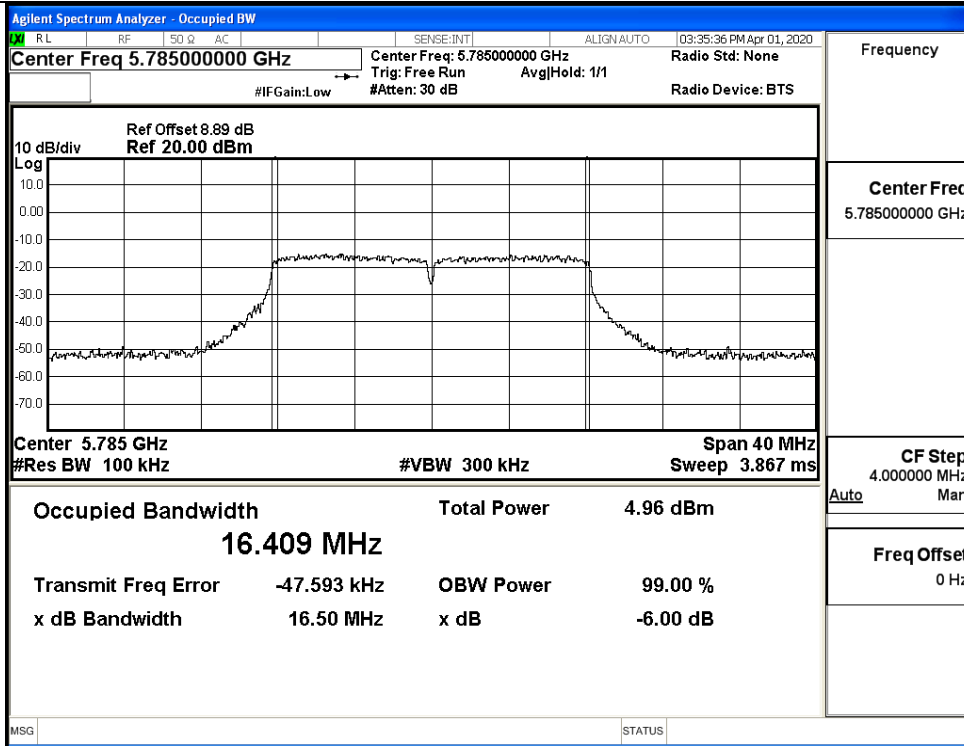


IEEE 802.11ac80 / Channel 155/ 5775MHz

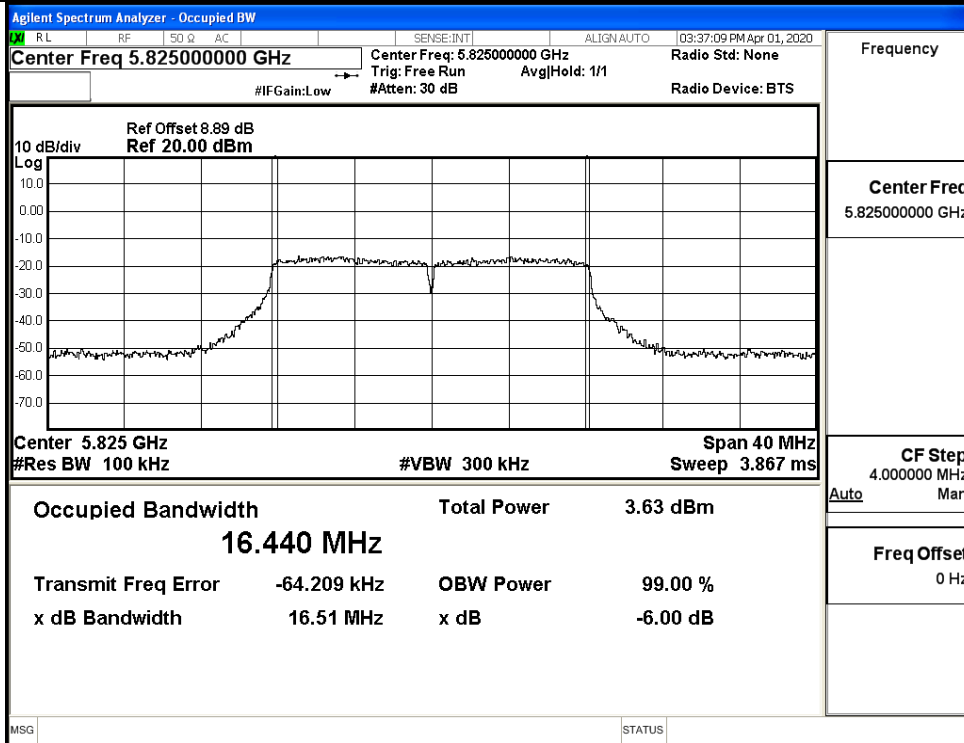
E.4 Emission Bandwidth

Test Mode	Channel	Frequency (MHz)	6dB Bandwidth (MHz)		Limit (MHz)	Verdict
			Ant_0	Ant_1		
11A	149	5745	16.49	12.79	>=0.5	Pass
	157	5785	16.50	13.13		Pass
	165	5825	16.51	13.91		Pass
11N20	149	5745	17.67	13.91	>=0.5	Pass
	157	5785	17.65	12.86		Pass
	165	5825	17.67	14.99		Pass
11N40	151	5755	36.54	35.10	>=0.5	Pass
	159	5795	36.50	35.08		Pass
11AC20	149	5745	17.58	17.44	>=0.5	Pass
	157	5785	17.64	15.11		Pass
	165	5825	17.64	15.08		Pass
11AC40	151	5755	36.52	36.62	>=0.5	Pass
	159	5795	36.50	35.01		Pass
11AC80	155	5775	75.78	75.44	>=0.5	Pass



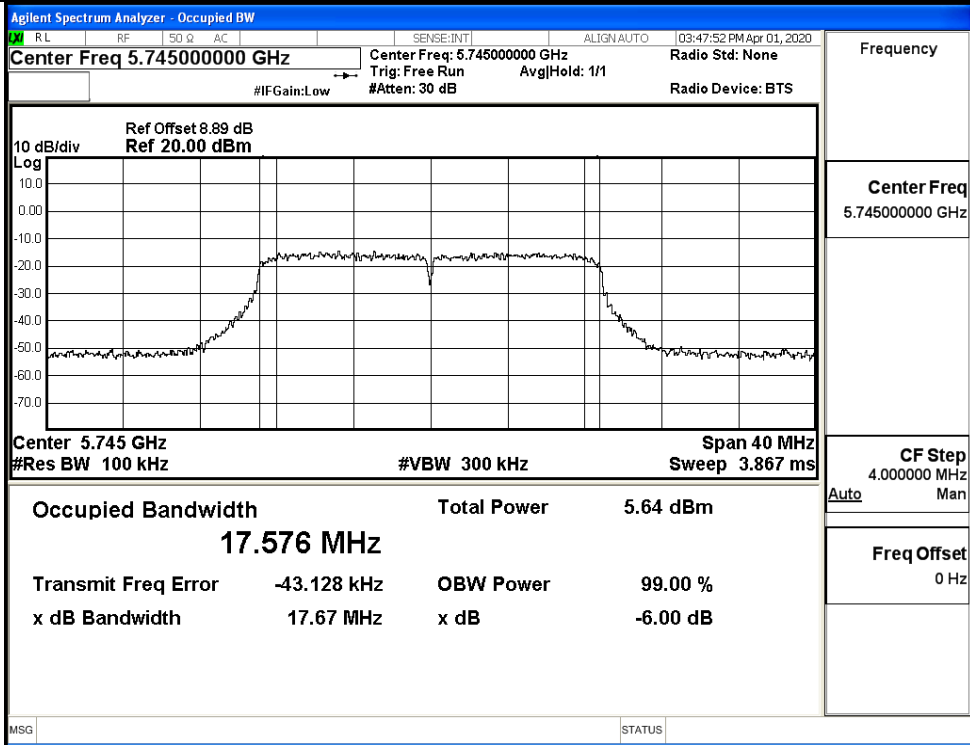


IEEE 802.11a / Channel 157 / 5785MHz

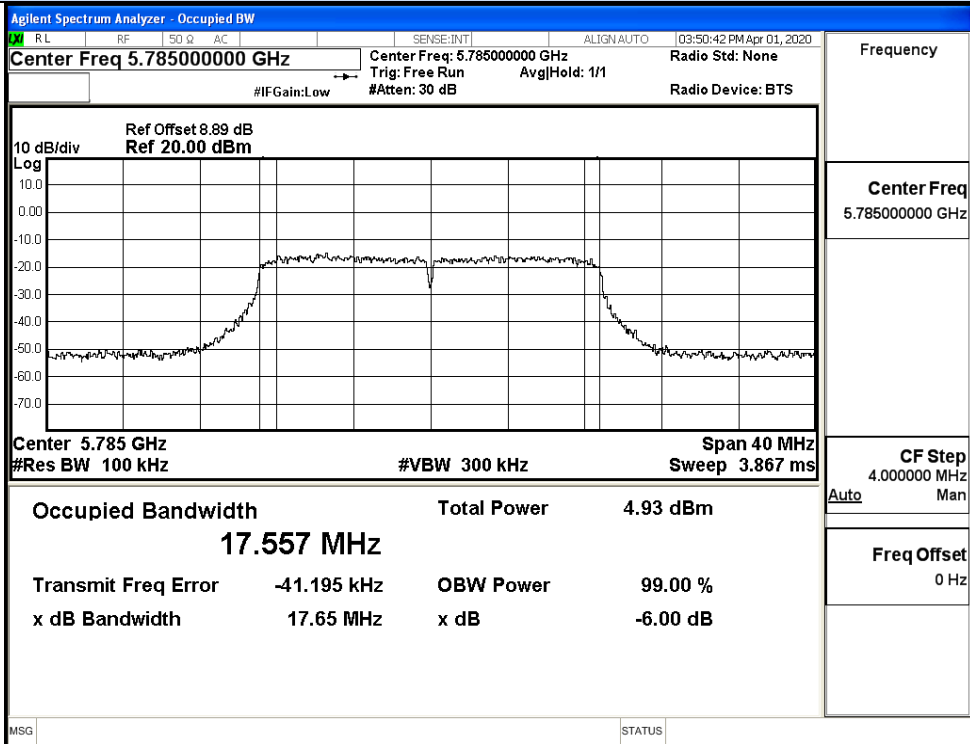


IEEE 802.11a / Channel 165 / 5825MHz

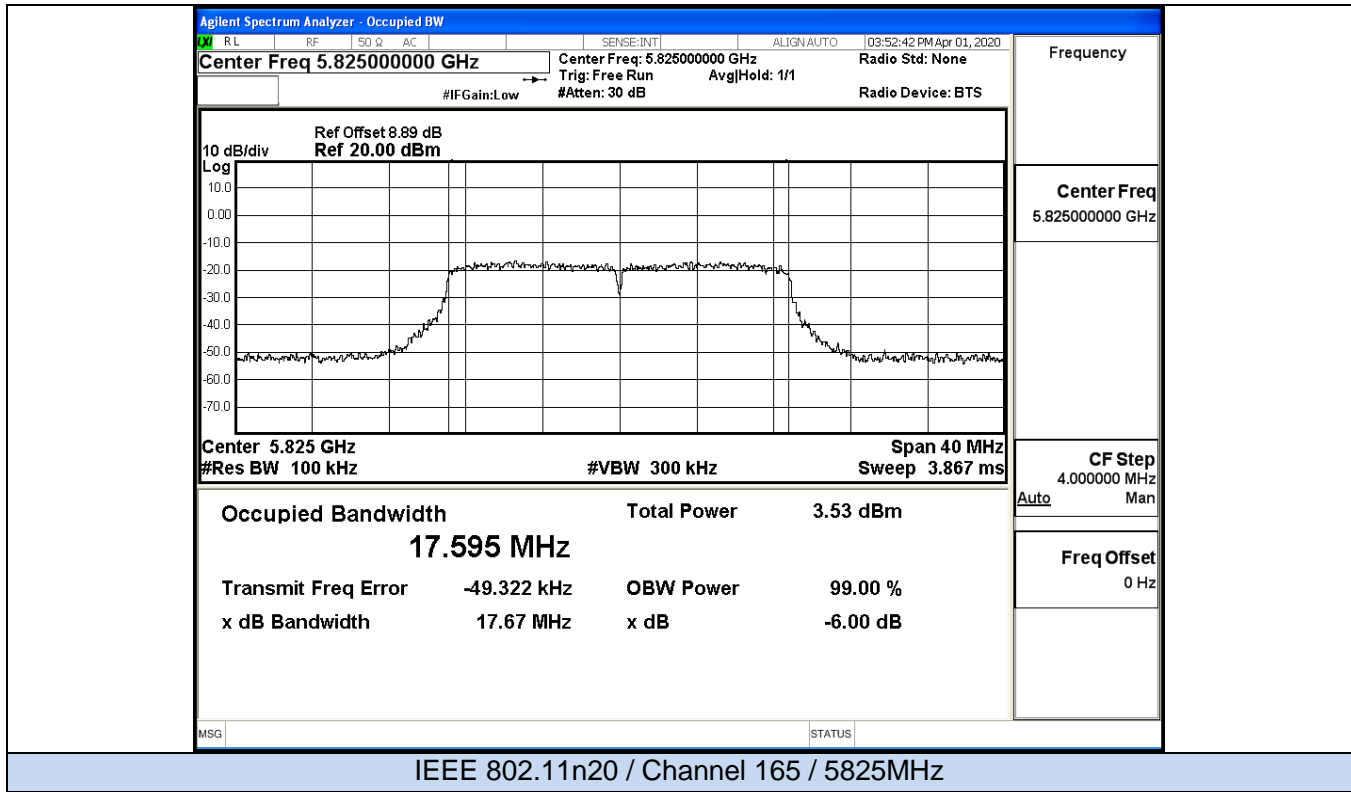
6dB Bandwidth



IEEE 802.11n20 / Channel 149 / 5745MHz

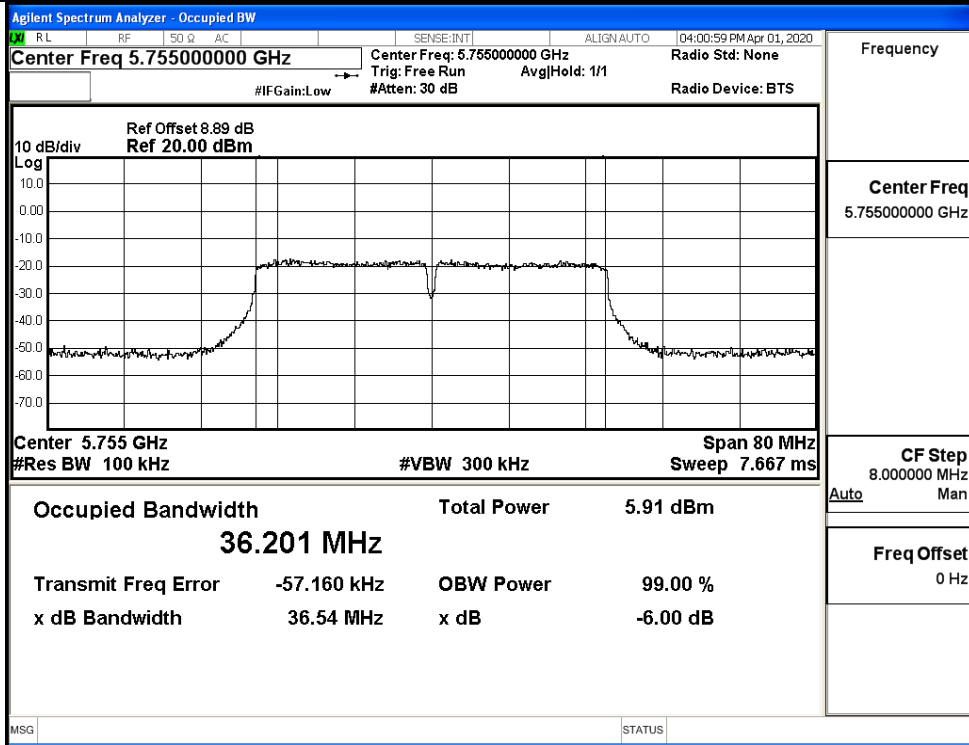


IEEE 802.11n20 / Channel 157 / 5785MHz

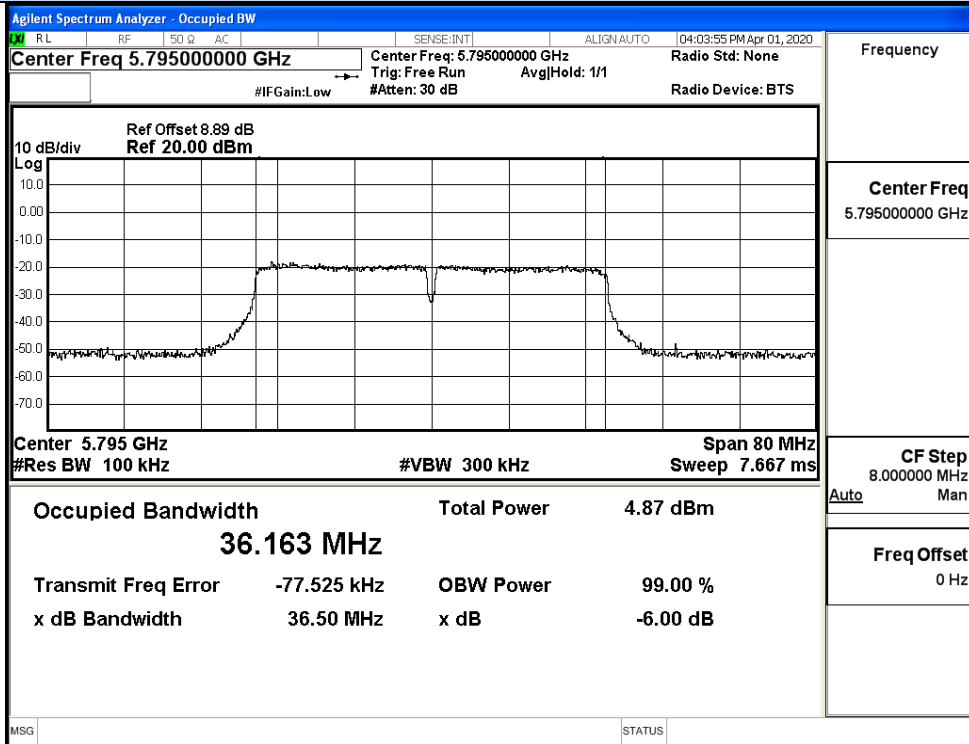


IEEE 802.11n20 / Channel 165 / 5825MHz

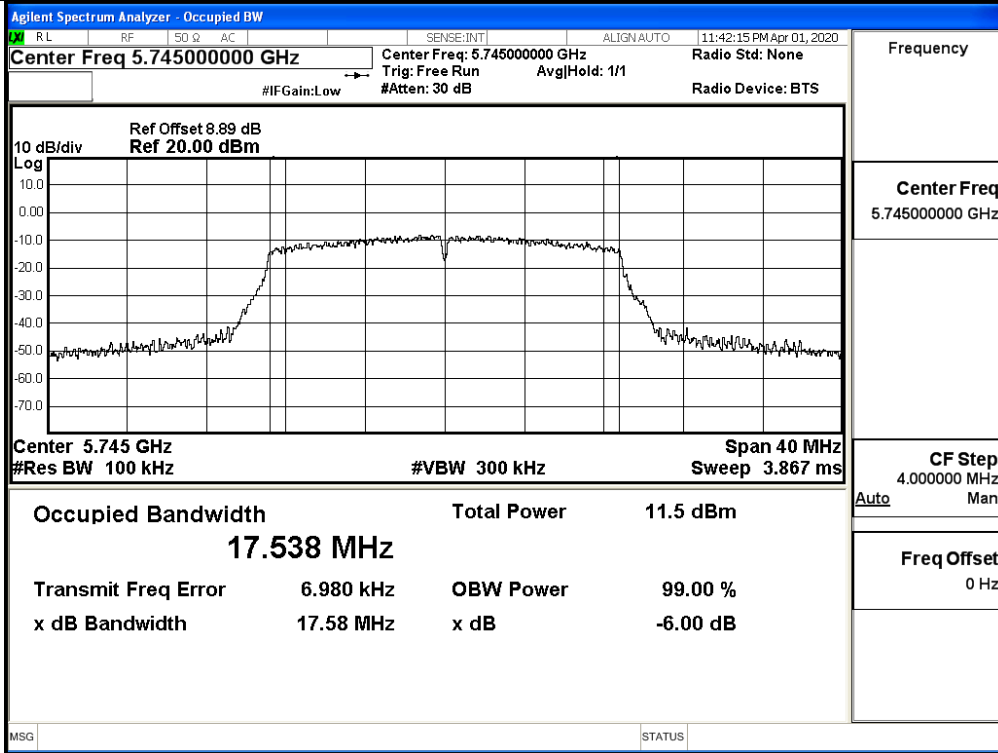
26dB Bandwidth



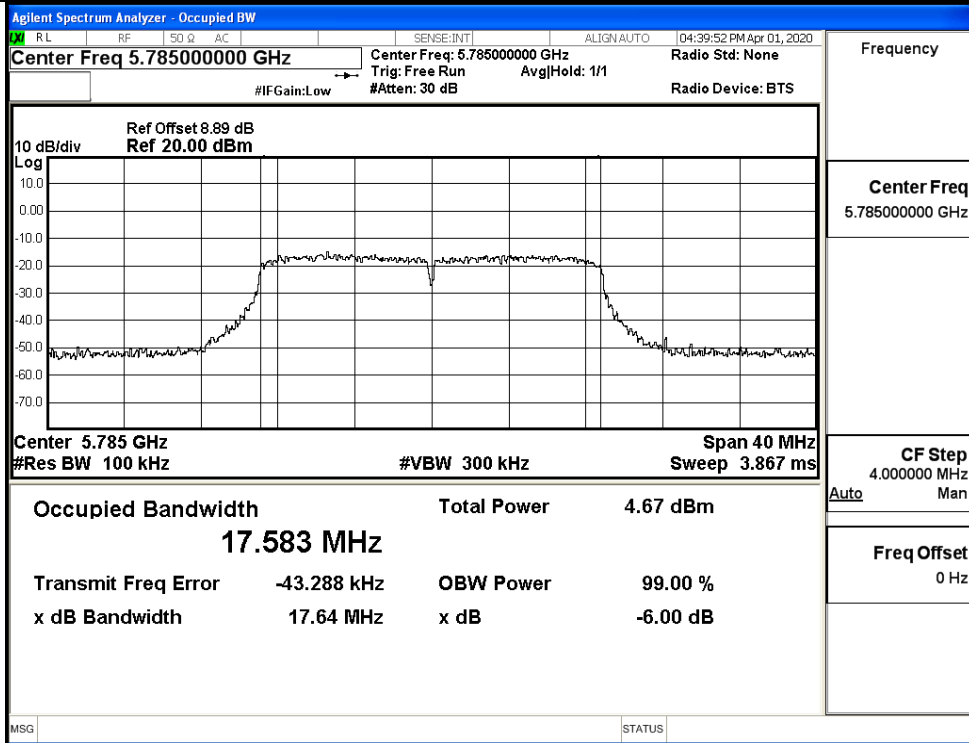
IEEE 802.11n40 / Channel 151 / 5755MHz



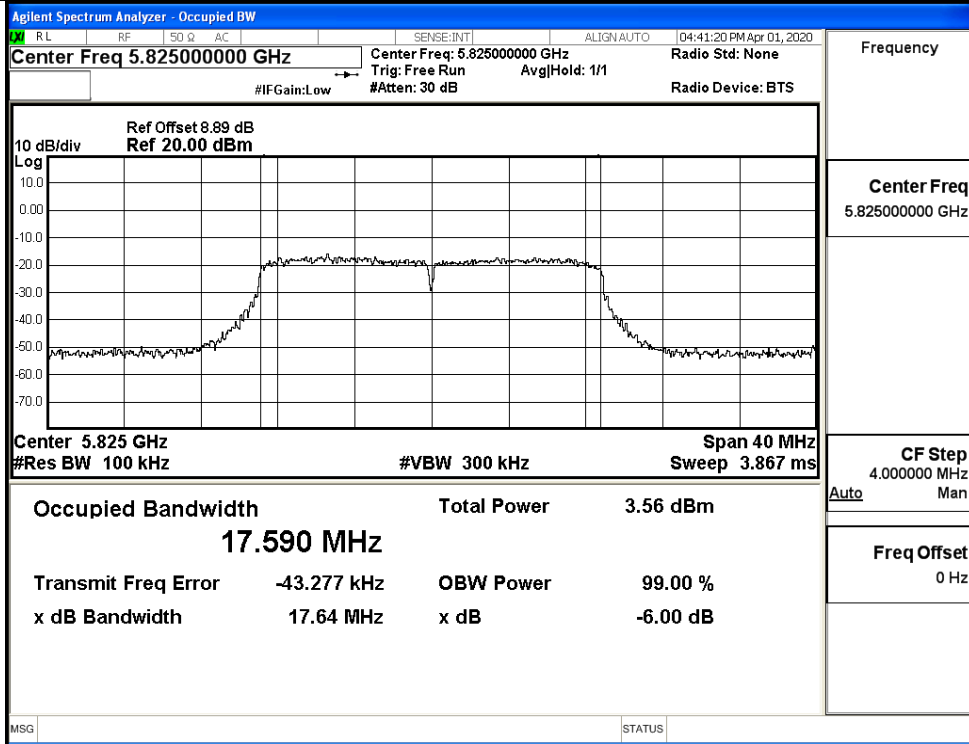
IEEE 802.11n40 / Channel 159 / 5795MHz



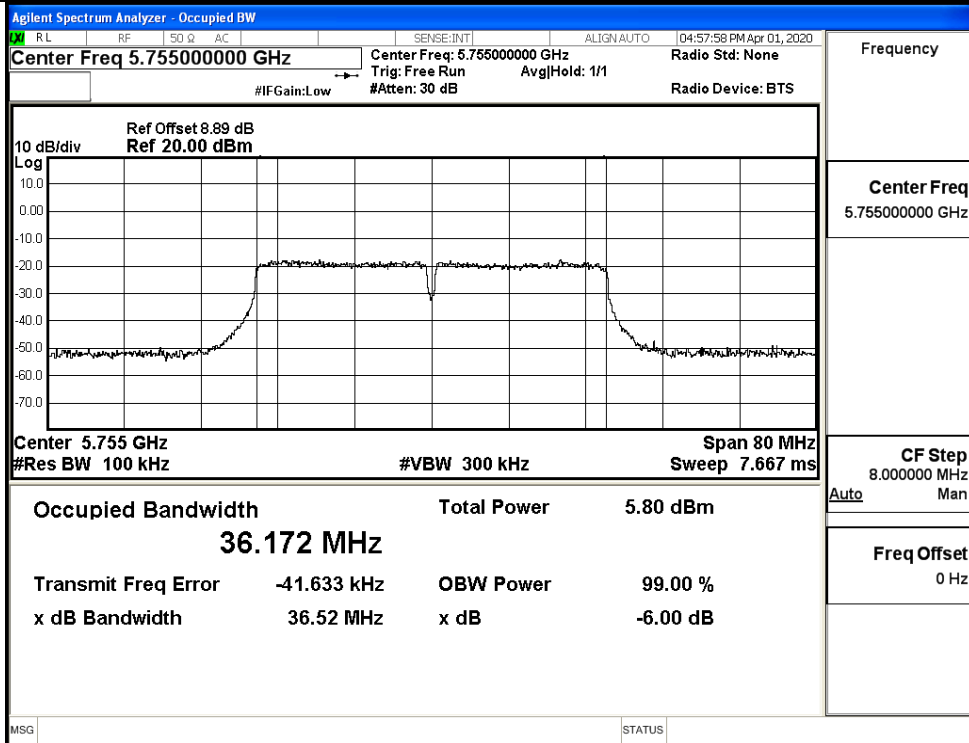
IEEE 802.11ac20 / Channel 149 / 5745MHz



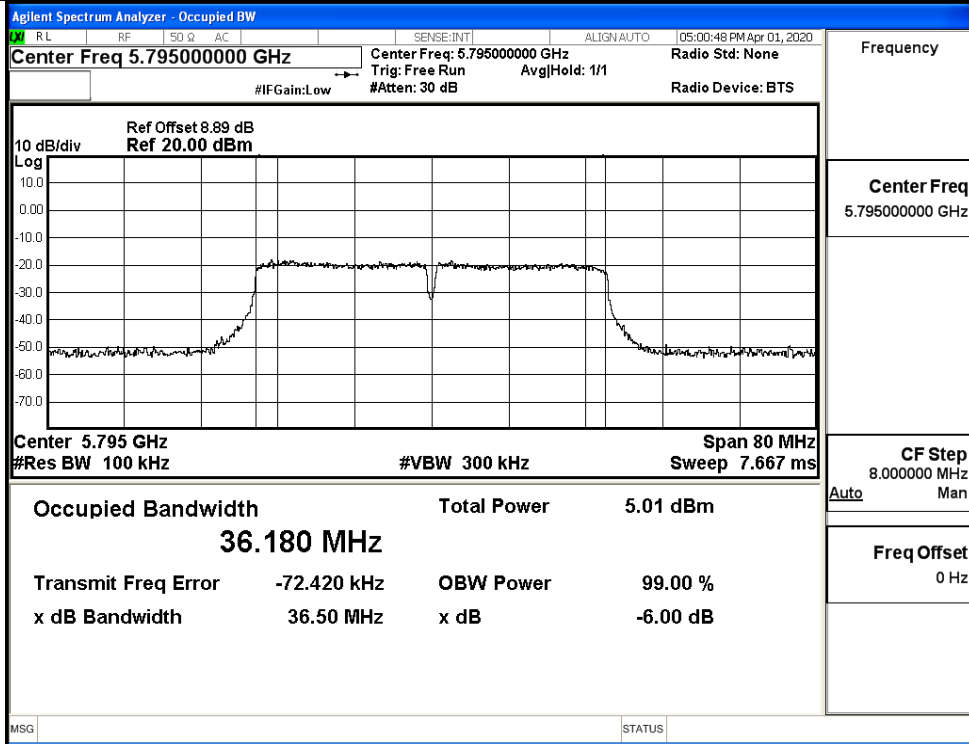
IEEE 802.11ac20 / Channel 157 / 5785MHz



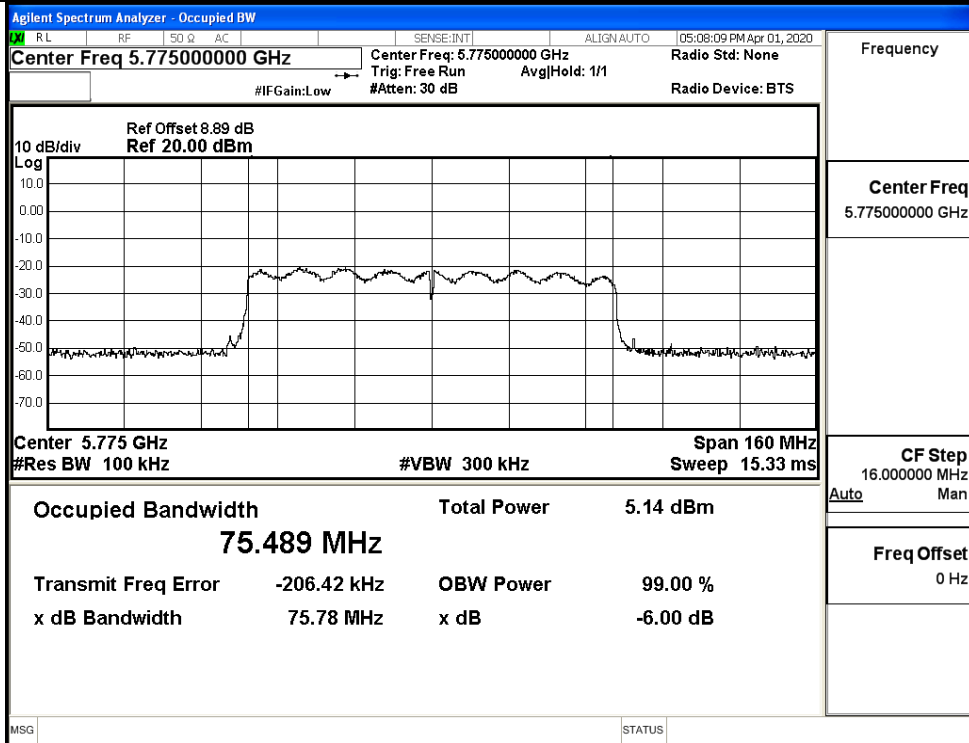
IEEE 802.11ac20 / Channel 165 / 5825MHz



IEEE 802.11ac40 / Channel 151 / 5755MHz

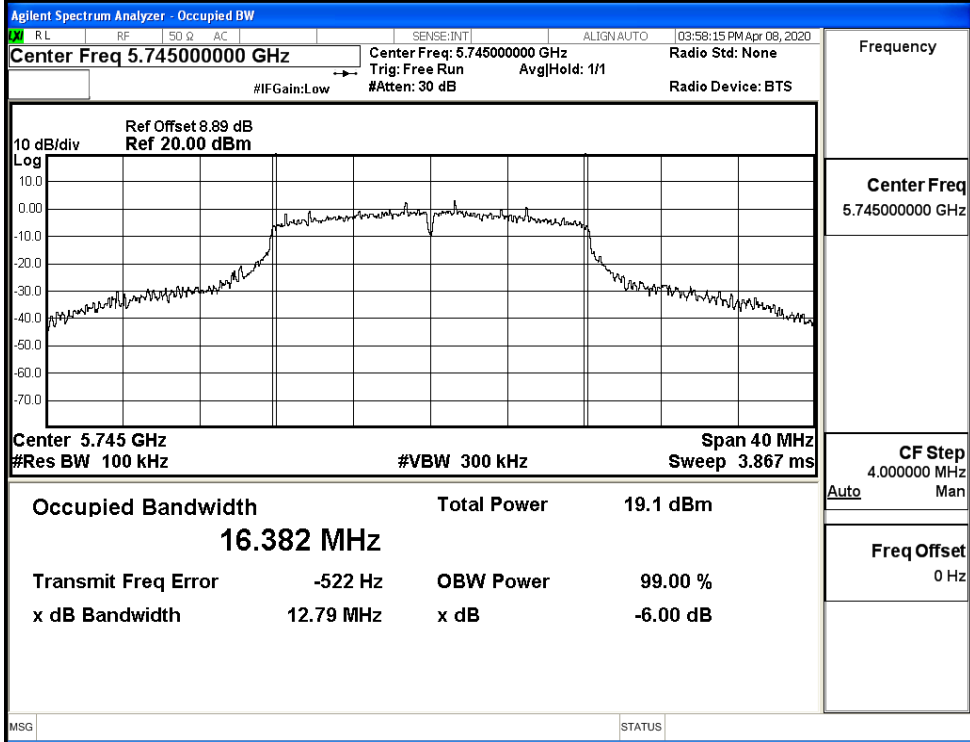


IEEE 802.11ac40 / Channel 159 / 5795MHz

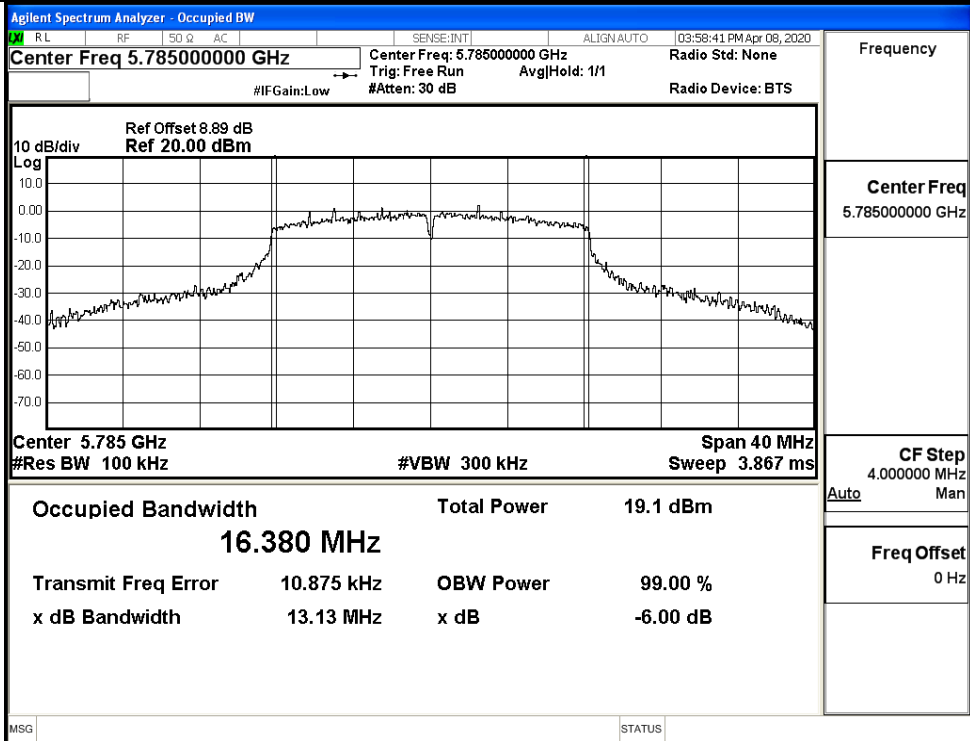


IEEE 802.11ac80 / Channel 155 / 5775MHz

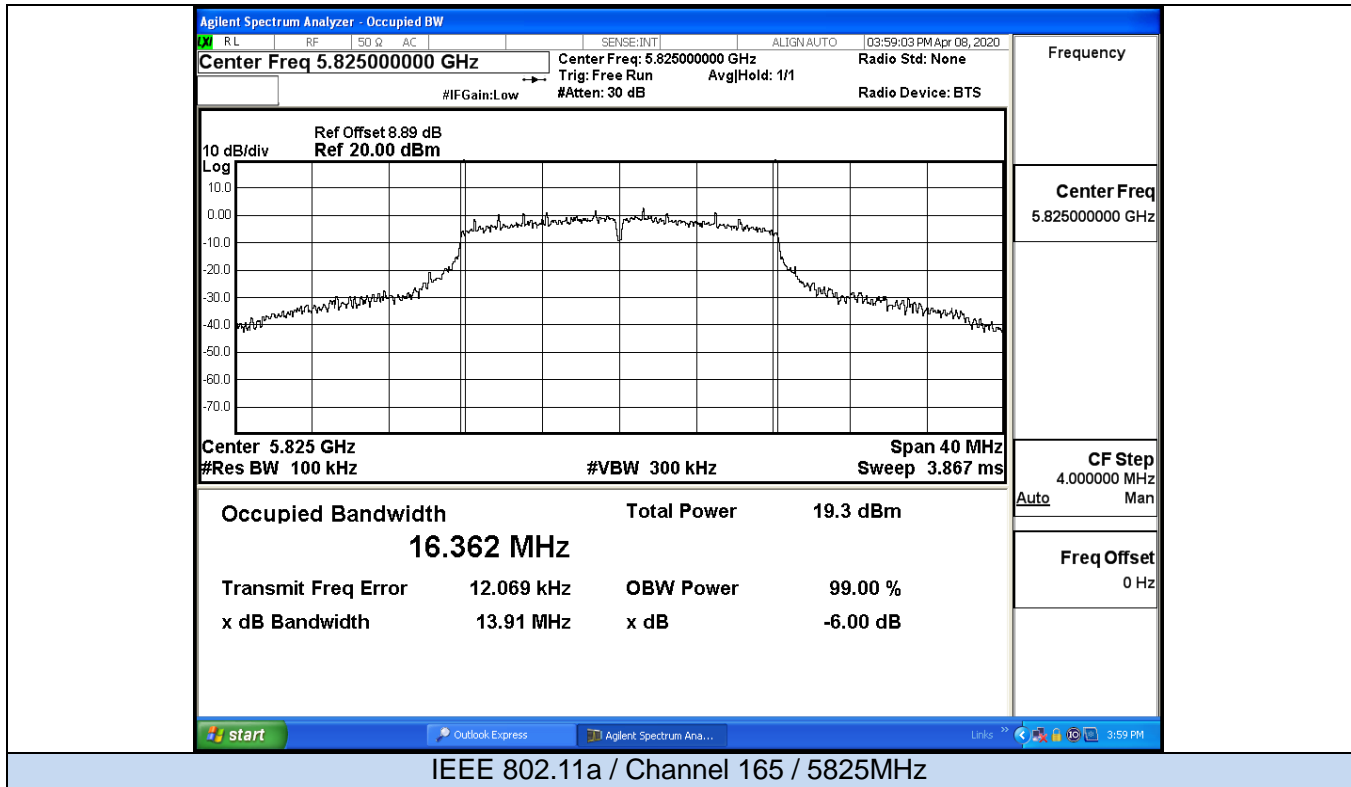
6dB Bandwidth_Ant_1



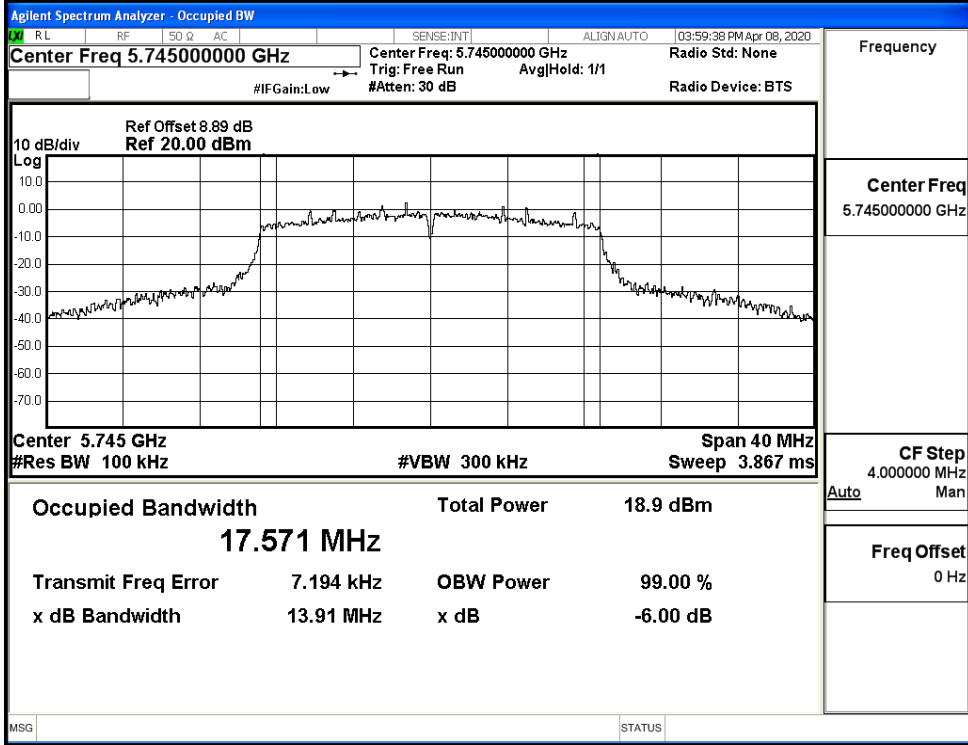
IEEE 802.11a / Channel 149 / 5745MHz



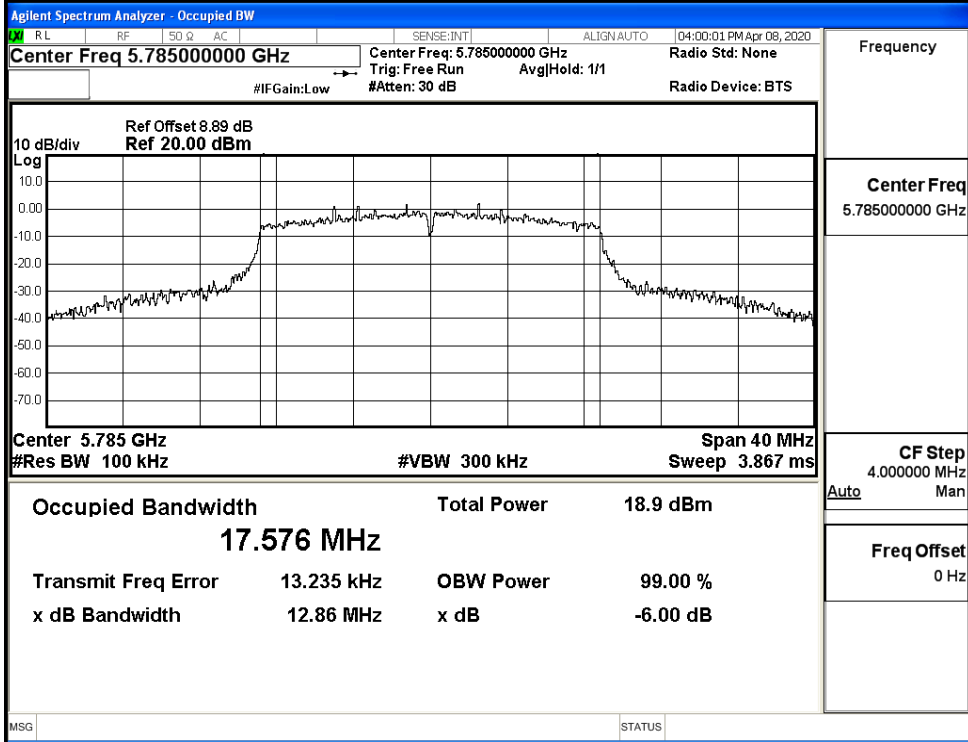
IEEE 802.11a / Channel 157 / 5785MHz



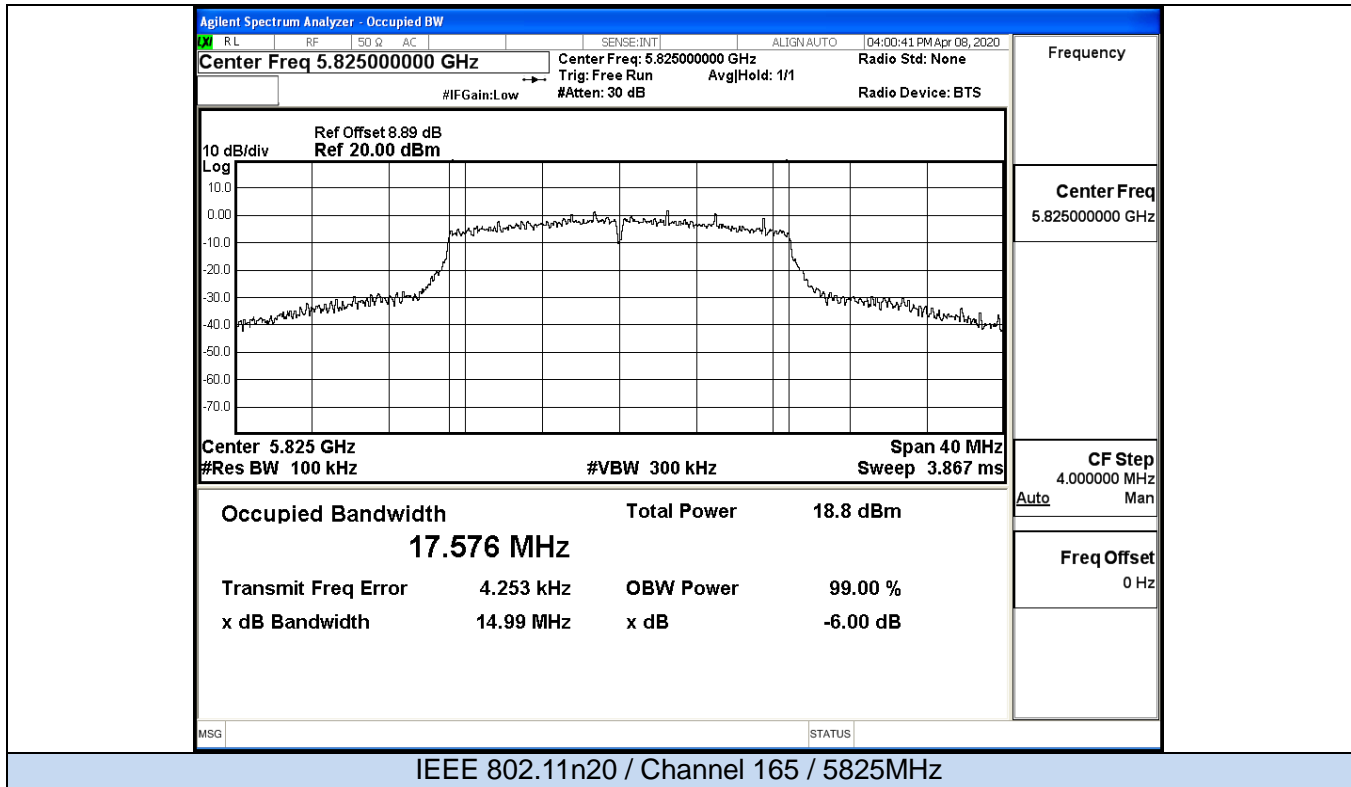
6dB Bandwidth



IEEE 802.11n20 / Channel 149 / 5745MHz

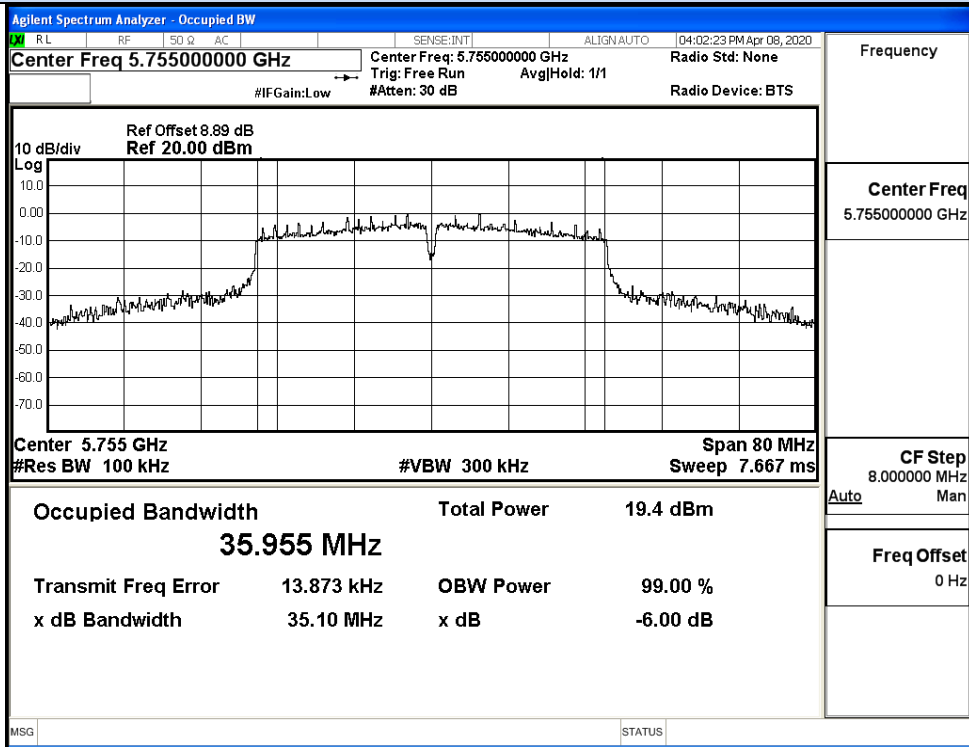


IEEE 802.11n20 / Channel 157 / 5785MHz

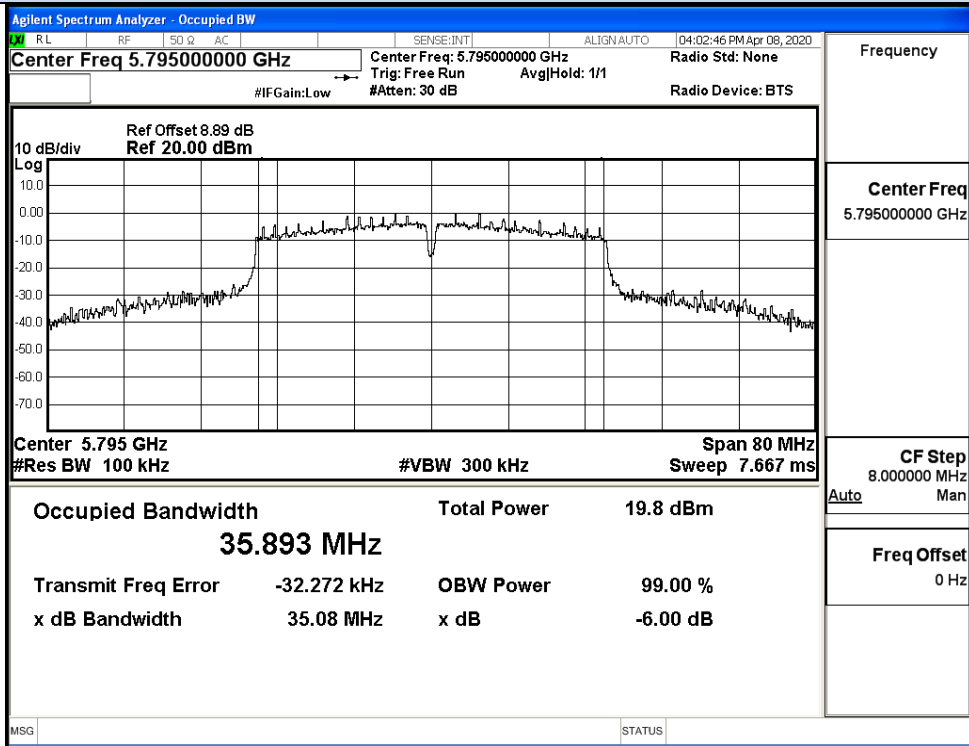


IEEE 802.11n20 / Channel 165 / 5825MHz

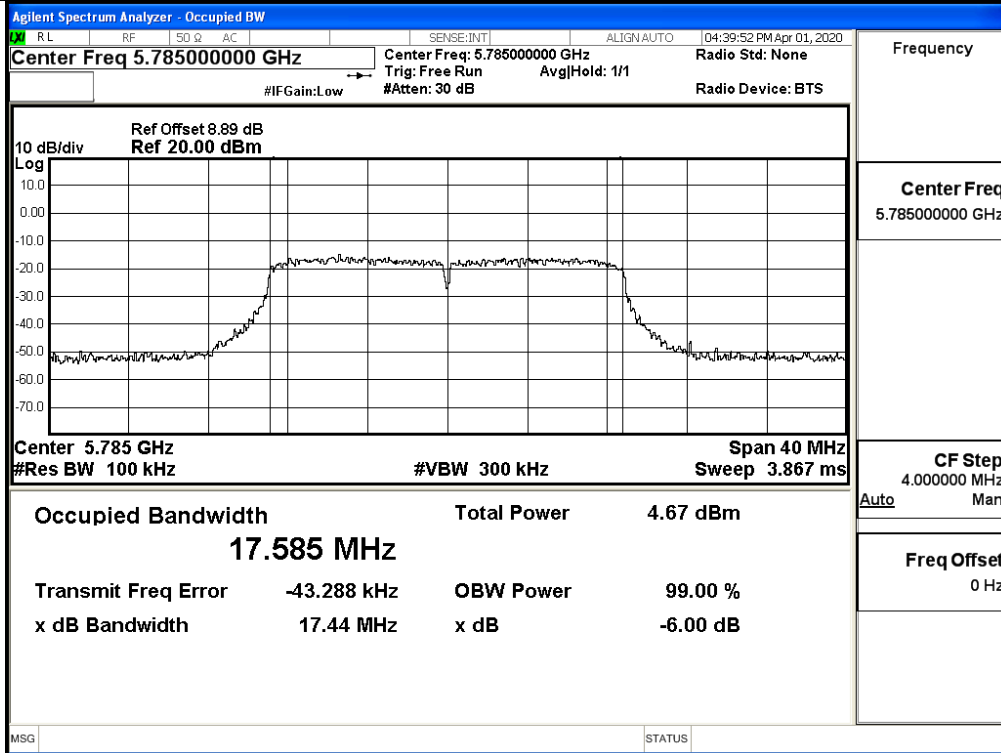
26dB Bandwidth



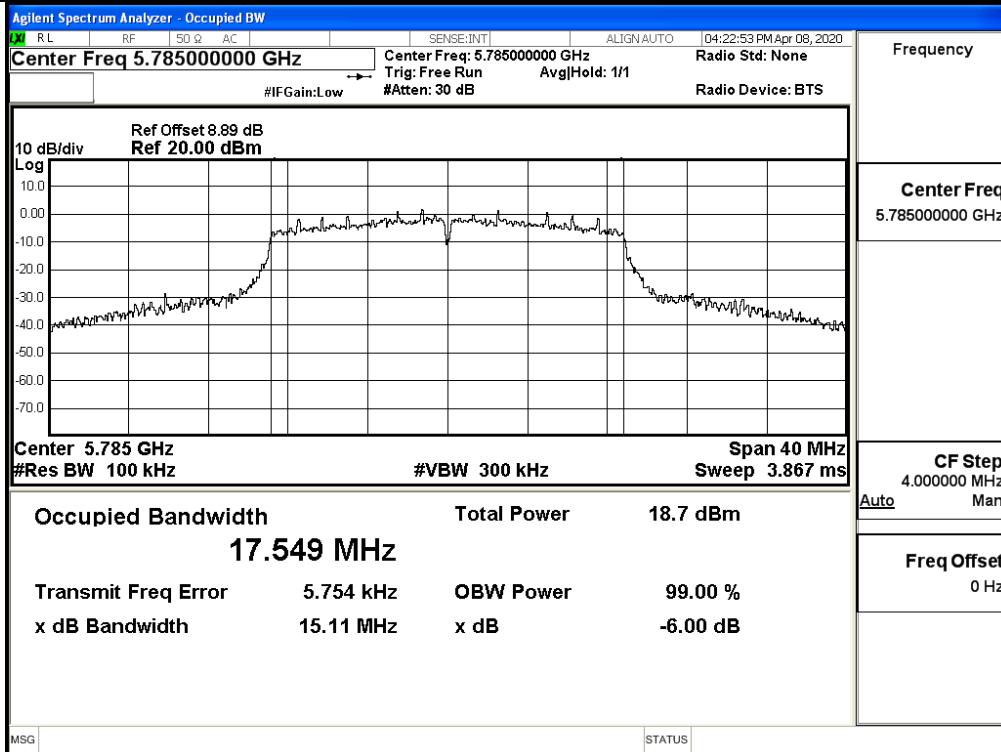
IEEE 802.11n40 / Channel 151 / 5755MHz



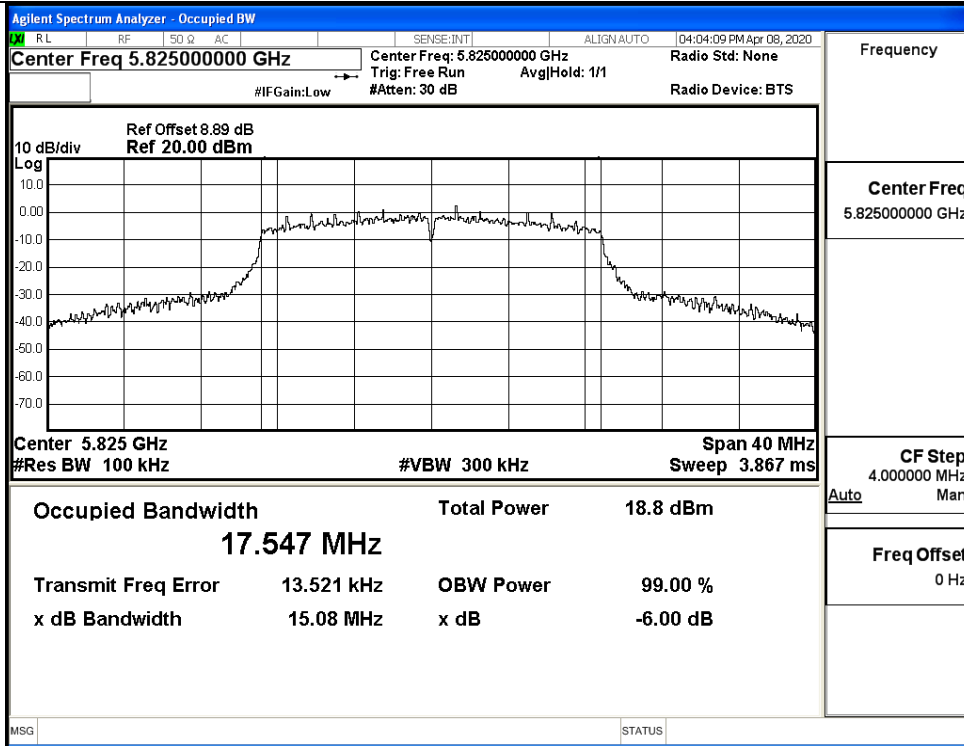
IEEE 802.11n40 / Channel 159 / 5795MHz



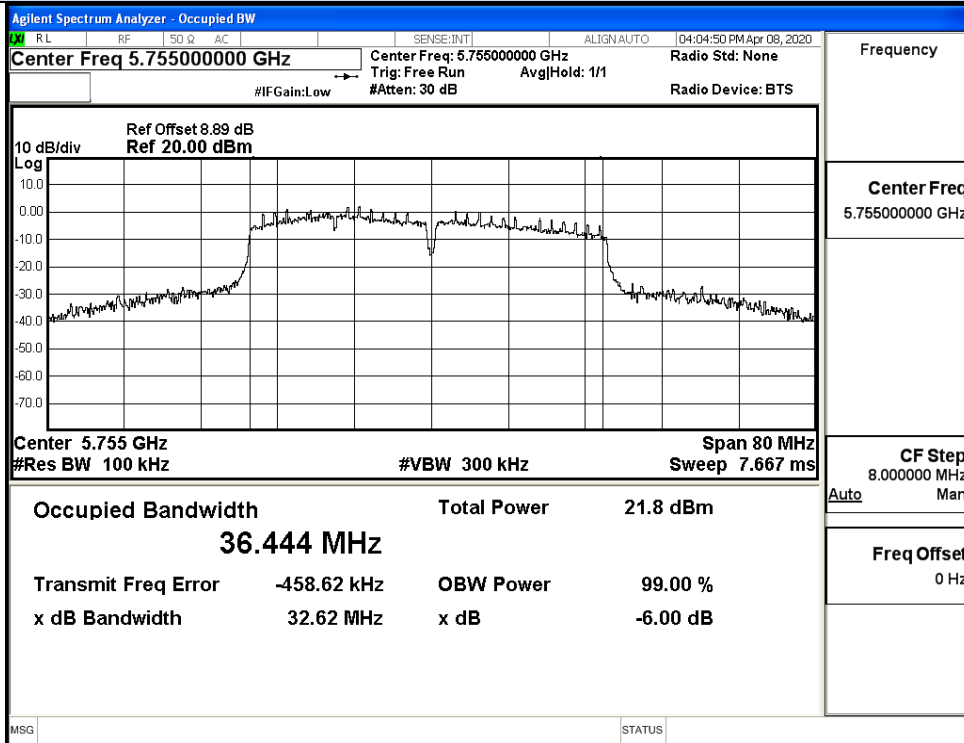
IEEE 802.11ac20 / Channel 149 / 5745MHz



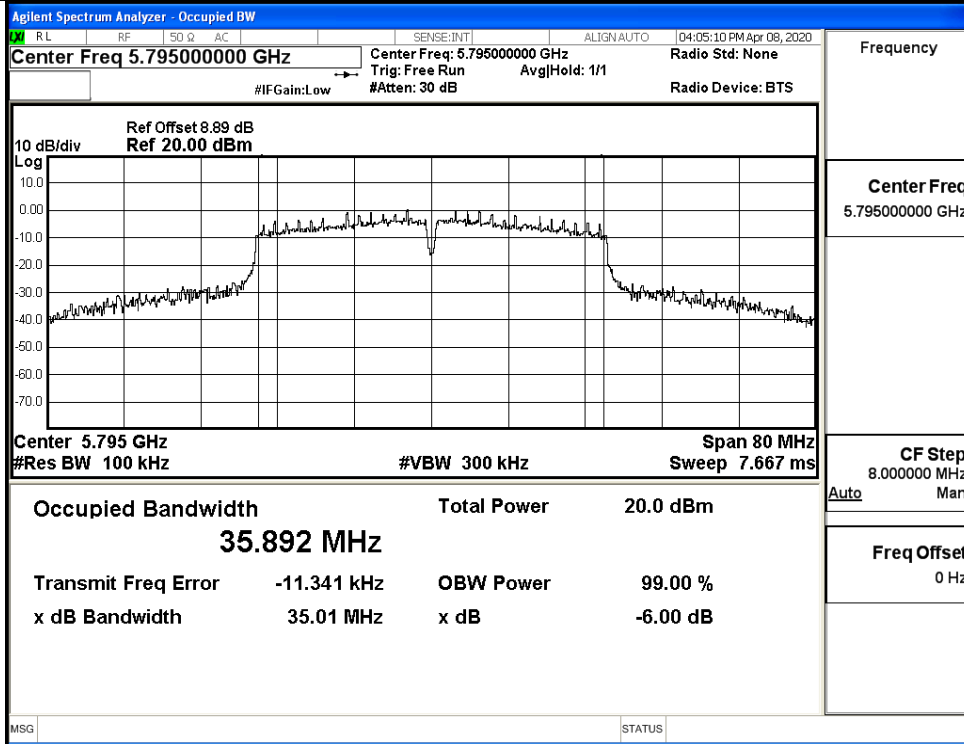
IEEE 802.11ac20 / Channel 157 / 5785MHz



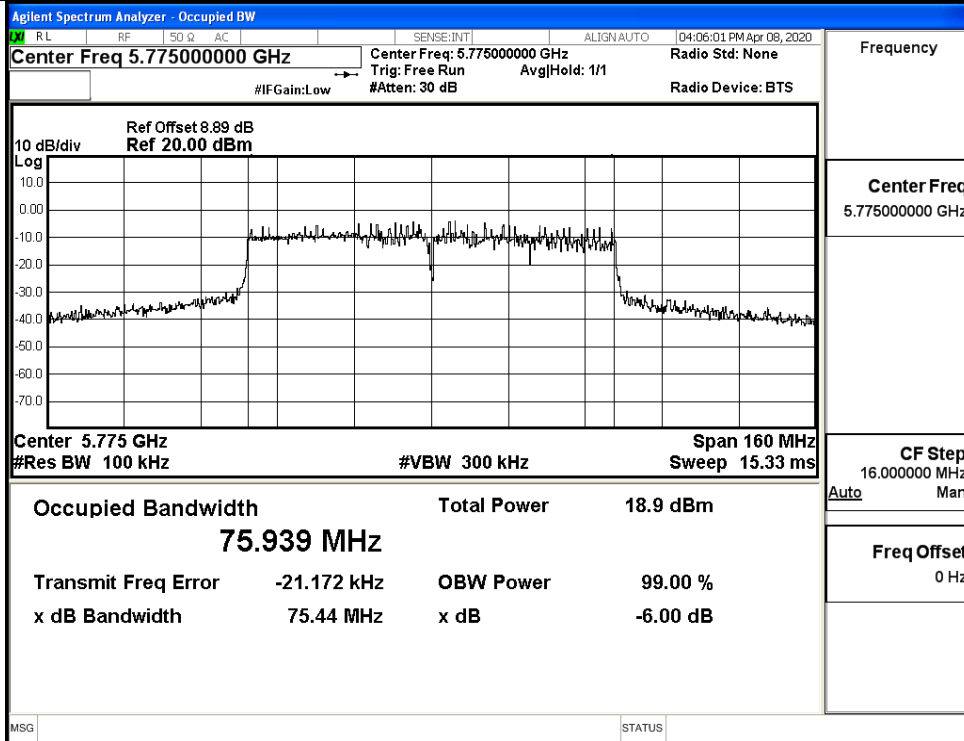
IEEE 802.11ac20 / Channel 165 / 5825MHz



IEEE 802.11ac40 / Channel 151 / 5755MHz



IEEE 802.11ac40 / Channel 159 / 5795MHz



IEEE 802.11ac80 / Channel 155 / 5775MHz

E.5 Undesirable Emissions Measurement

Ant 0

Test Mode	Channel	Frequency (MHz)	Conducted Power (dBm)	Antenna Gain (dBi)	EIRP (dBm/MHz)	Detector	Limit (dBm/MHz)	Verdict
11A	149	5650.0	-49.17	2.00	-47.17	Peak	-27.0	Pass
		5650.0	-60.84	2.00	-58.84	Average	-27.0	Pass
		5700.0	-48.95	2.00	-46.95	Peak	10	Pass
		5700.0	-60.58	2.00	-58.58	Average	10	Pass
		5720.0	-48.81	2.00	-46.81	Peak	15.6	Pass
		5720.0	-60.40	2.00	-58.40	Average	15.6	Pass
		5725.0	-48.45	2.00	-46.45	Peak	27.0	Pass
	5725.0	-60.31	2.00	-58.31	Average	27.0	Pass	
	165	5850.0	-48.58	2.00	-46.58	Peak	27.0	Pass
		5850.0	-60.33	2.00	-58.33	Average	27.0	Pass
		5855.0	-48.98	2.00	-46.98	Peak	15.6	Pass
		5855.0	-60.38	2.00	-58.38	Average	15.6	Pass
		5875.0	-48.25	2.00	-46.25	Peak	10	Pass
		5875.0	-60.49	2.00	-58.49	Average	10	Pass
5925.0		-48.93	2.00	-46.93	Peak	-27.0	Pass	
5925.0	-60.86	2.00	-58.86	Average	-27.0	Pass		
11N20	149	5650.0	-48.11	2.00	-46.11	Peak	-27.0	Pass
		5650.0	-60.80	2.00	-58.80	Average	-27.0	Pass
		5700.0	-48.42	2.00	-46.42	Peak	10	Pass
		5700.0	-60.39	2.00	-58.39	Average	10	Pass
		5720.0	-48.86	2.00	-46.86	Peak	15.6	Pass
		5720.0	-60.57	2.00	-58.57	Average	15.6	Pass
		5725.0	-47.72	2.00	-45.72	Peak	27.0	Pass
	5725.0	-60.19	2.00	-58.19	Average	27.0	Pass	
	165	5850.0	-48.20	2.00	-46.20	Peak	27.0	Pass
		5850.0	-60.36	2.00	-58.36	Average	27.0	Pass
		5855.0	-48.16	2.00	-46.16	Peak	15.6	Pass
		5855.0	-60.41	2.00	-58.41	Average	15.6	Pass
		5875.0	-47.97	2.00	-45.97	Peak	10	Pass
		5875.0	-60.53	2.00	-58.53	Average	10	Pass
5925.0		-49.78	2.00	-47.78	Peak	-27.0	Pass	
5925.0	-60.86	2.00	-58.86	Average	-27.0	Pass		
11N40	151	5650.0	-48.40	2.00	-46.40	Peak	-27.0	Pass
		5650.0	-60.66	2.00	-58.66	Average	-27.0	Pass
		5700.0	-48.77	2.00	-46.77	Peak	10	Pass
		5700.0	-60.42	2.00	-58.42	Average	10	Pass
		5720.0	-47.91	2.00	-45.91	Peak	15.6	Pass
		5720.0	-60.19	2.00	-58.19	Average	15.6	Pass
		5725.0	-48.03	2.00	-46.03	Peak	27.0	Pass
	5725.0	-60.02	2.00	-58.02	Average	27.0	Pass	
	159	5850.0	-48.50	2.00	-46.50	Peak	27.0	Pass
		5850.0	-59.98	2.00	-57.98	Average	27.0	Pass
		5855.0	-48.85	2.00	-46.85	Peak	15.6	Pass
		5855.0	-60.04	2.00	-58.04	Average	15.6	Pass
		5875.0	-49.21	2.00	-47.21	Peak	10	Pass
		5875.0	-60.15	2.00	-58.15	Average	10	Pass
5925.0		-48.66	2.00	-46.66	Peak	-27.0	Pass	
5925.0	-60.50	2.00	-58.50	Average	-27.0	Pass		
11AC 20	149	5650.0	-48.89	2.00	-46.89	Peak	-27.0	Pass
		5650.0	-60.82	2.00	-58.82	Average	-27.0	Pass
		5700.0	-47.88	2.00	-45.88	Peak	10	Pass
		5700.0	-60.42	2.00	-58.42	Average	10	Pass
		5720.0	-49.02	2.00	-47.02	Peak	15.6	Pass
		5720.0	-60.56	2.00	-58.56	Average	15.6	Pass
		5725.0	-47.83	2.00	-45.83	Peak	27.0	Pass
	5725.0	-60.24	2.00	-58.24	Average	27.0	Pass	
	165	5850.0	-48.05	2.00	-46.05	Peak	27.0	Pass
		5850.0	-60.32	2.00	-58.32	Average	27.0	Pass
		5855.0	-47.46	2.00	-45.46	Peak	15.6	Pass
		5855.0	-60.38	2.00	-58.38	Average	15.6	Pass
		5875.0	-48.96	2.00	-46.96	Peak	10	Pass
		5875.0	-60.52	2.00	-58.52	Average	10	Pass

11AC 40	151	5925.0	-49.64	2.00	-47.64	Peak	-27.0	Pass
		5925.0	-60.84	2.00	-58.84	Average	-27.0	Pass
		5650.0	-49.10	2.00	-47.10	Peak	-27.0	Pass
		5650.0	-60.71	2.00	-58.71	Average	-27.0	Pass
		5700.0	-49.71	2.00	-47.71	Peak	10	Pass
		5700.0	-60.41	2.00	-58.41	Average	10	Pass
		5720.0	-48.46	2.00	-46.46	Peak	15.6	Pass
		5720.0	-60.14	2.00	-58.14	Average	15.6	Pass
		5725.0	-48.39	2.00	-46.39	Peak	27.0	Pass
	5725.0	-60.05	2.00	-58.05	Average	27.0	Pass	
	159	5850.0	-47.42	2.00	-45.42	Peak	27.0	Pass
		5850.0	-59.99	2.00	-57.99	Average	27.0	Pass
		5855.0	-49.60	2.00	-47.60	Peak	15.6	Pass
		5855.0	-60.07	2.00	-58.07	Average	15.6	Pass
		5875.0	-49.30	2.00	-47.30	Peak	10	Pass
		5875.0	-60.12	2.00	-58.12	Average	10	Pass
		5925.0	-48.93	2.00	-46.93	Peak	-27.0	Pass
		5925.0	-60.48	2.00	-58.48	Average	-27.0	Pass
11AC 80		155	5725.0	-45.28	2.00	-43.28	Peak	27.0
	5720.0		-48.60	2.00	-46.60	Peak	15.6	Pass
	5700.0		-49.50	2.00	-47.50	Peak	10	Pass
	5650.0		-50.67	2.00	-48.67	Peak	-27.0	Pass
	5725.0		-53.70	2.00	-51.70	Average	27.0	Pass
	5720.0		-55.30	2.00	-53.30	Average	15.6	Pass
	5700.0		-58.07	2.00	-56.07	Average	10	Pass
	5650.0		-60.17	2.00	-58.17	Average	-27.0	Pass
	5850.0		-41.14	2.00	-39.14	Peak	27.0	Pass
	5855.0	-44.41	2.00	-42.41	Peak	15.6	Pass	
	5875.0	-46.88	2.00	-44.88	Peak	10	Pass	
	5925.0	-48.57	2.00	-46.57	Peak	-27.0	Pass	
	5850.0	-55.11	2.00	-53.11	Average	27.0	Pass	
	5855.0	-56.02	2.00	-54.02	Average	15.6	Pass	
	5875.0	-58.46	2.00	-56.46	Average	10	Pass	
	5925.0	-59.55	2.00	-57.55	Average	-27.0	Pass	

Ant_1

Test Mode	Channel	Frequency (MHz)	Conducted Power (dBm)	Antenna Gain (dBi)	EIRP (dBm/MHz)	Detector	Limit (dBm/MHz)	Verdict	
11A	149	5650.0	-40.41	2.00	-38.41	Peak	-27.0	Pass	
		5650.0	-60.29	2.00	-58.29	Average	-27.0	Pass	
		5700.0	-47.90	2.00	-45.90	Peak	10	Pass	
		5700.0	-60.56	2.00	-58.56	Average	10	Pass	
		5720.0	-46.73	2.00	-44.73	Peak	15.6	Pass	
		5720.0	-58.94	2.00	-56.94	Average	15.6	Pass	
		5725.0	-40.41	2.00	-38.41	Peak	27.0	Pass	
		5725.0	-57.04	2.00	-55.04	Average	27.0	Pass	
		165	5850.0	-47.03	2.00	-45.03	Peak	27.0	Pass
	5850.0		-59.09	2.00	-57.09	Average	27.0	Pass	
	5855.0		-47.88	2.00	-45.88	Peak	15.6	Pass	
	5855.0		-59.34	2.00	-57.34	Average	15.6	Pass	
	5875.0		-47.82	2.00	-45.82	Peak	10	Pass	
	5875.0		-59.61	2.00	-57.61	Average	10	Pass	
	5925.0		-49.12	2.00	-47.12	Peak	-27.0	Pass	
	5925.0		-60.11	2.00	-58.11	Average	-27.0	Pass	
	11N20		149	5650.0	-48.69	2.00	-46.69	Peak	-27.0
		5650.0		-60.37	2.00	-58.37	Average	-27.0	Pass
5700.0		-47.26		2.00	-45.26	Peak	10	Pass	
5700.0		-59.59		2.00	-57.59	Average	10	Pass	
5720.0		-47.47		2.00	-45.47	Peak	15.6	Pass	
5720.0		-59.93		2.00	-57.93	Average	15.6	Pass	
5725.0		-42.14		2.00	-40.14	Peak	27.0	Pass	
5725.0		-56.74		2.00	-54.74	Average	27.0	Pass	
165		5850.0		-47.46	2.00	-45.46	Peak	27.0	Pass
		5850.0	-59.04	2.00	-57.04	Average	27.0	Pass	
		5855.0	-47.18	2.00	-45.18	Peak	15.6	Pass	
		5855.0	-59.33	2.00	-57.33	Average	15.6	Pass	
		5875.0	-46.35	2.00	-44.35	Peak	10	Pass	
		5875.0	-59.62	2.00	-57.62	Average	10	Pass	

11N40	151	5925.0	-48.27	2.00	-46.27	Peak	-27.0	Pass	
		5925.0	-60.10	2.00	-58.10	Average	-27.0	Pass	
		5650.0	-48.79	2.00	-46.79	Peak	-27.0	Pass	
		5650.0	-60.20	2.00	-58.20	Average	-27.0	Pass	
		5700.0	-47.98	2.00	-45.98	Peak	10	Pass	
		5700.0	-59.34	2.00	-57.34	Average	10	Pass	
		5720.0	-40.85	2.00	-38.85	Peak	15.6	Pass	
		5720.0	-56.44	2.00	-54.44	Average	15.6	Pass	
		5725.0	-31.98	2.00	-29.98	Peak	27.0	Pass	
	5725.0	-54.20	2.00	-52.20	Average	27.0	Pass		
	159	5850.0	-48.04	2.00	-46.04	Peak	27.0	Pass	
		5850.0	-58.80	2.00	-56.80	Average	27.0	Pass	
		5855.0	-47.58	2.00	-45.58	Peak	15.6	Pass	
		5855.0	-58.98	2.00	-56.98	Average	15.6	Pass	
		5875.0	-47.60	2.00	-45.60	Peak	10	Pass	
		5875.0	-59.26	2.00	-57.26	Average	10	Pass	
		5925.0	-48.02	2.00	-46.02	Peak	-27.0	Pass	
		5925.0	-59.79	2.00	-57.79	Average	-27.0	Pass	
11AC 20		149	5650.0	-48.25	2.00	-46.25	Peak	-27.0	Pass
	5650.0		-60.28	2.00	-58.28	Average	-27.0	Pass	
	5700.0		-48.41	2.00	-46.41	Peak	10	Pass	
	5700.0		-59.51	2.00	-57.51	Average	10	Pass	
	5720.0		-46.97	2.00	-44.97	Peak	15.6	Pass	
	5720.0		-58.79	2.00	-56.79	Average	15.6	Pass	
	5725.0		-40.28	2.00	-38.28	Peak	27.0	Pass	
	5725.0		-56.66	2.00	-54.66	Average	27.0	Pass	
	165		5850.0	-47.73	2.00	-45.73	Peak	27.0	Pass
		5850.0	-58.93	2.00	-56.93	Average	27.0	Pass	
		5855.0	-46.86	2.00	-44.86	Peak	15.6	Pass	
		5855.0	-59.28	2.00	-57.28	Average	15.6	Pass	
		5875.0	-47.35	2.00	-45.35	Peak	10	Pass	
		5875.0	-59.55	2.00	-57.55	Average	10	Pass	
		5925.0	-48.31	2.00	-46.31	Peak	-27.0	Pass	
		5925.0	-60.02	2.00	-58.02	Average	-27.0	Pass	
		11AC 40	151	5650.0	-48.05	2.00	-46.05	Peak	-27.0
	5650.0			-60.16	2.00	-58.16	Average	-27.0	Pass
5700.0	-46.92			2.00	-44.92	Peak	10	Pass	
5700.0	-59.30			2.00	-57.30	Average	10	Pass	
5720.0	-38.75			2.00	-36.75	Peak	15.6	Pass	
5720.0	-56.41			2.00	-54.41	Average	15.6	Pass	
5725.0	-40.18			2.00	-38.18	Peak	27.0	Pass	
5725.0	-54.23			2.00	-52.23	Average	27.0	Pass	
159	5850.0			-47.20	2.00	-45.20	Peak	27.0	Pass
	5850.0		-58.99	2.00	-56.99	Average	27.0	Pass	
	5855.0		-48.30	2.00	-46.30	Peak	15.6	Pass	
	5855.0		-59.09	2.00	-57.09	Average	15.6	Pass	
	5875.0		-47.54	2.00	-45.54	Peak	10	Pass	
	5875.0		-59.38	2.00	-57.38	Average	10	Pass	
	5925.0		-47.48	2.00	-45.48	Peak	-27.0	Pass	
	5925.0		-59.96	2.00	-57.96	Average	-27.0	Pass	
	11AC 80		155	5725.0	-45.27	2.00	-43.27	Peak	27.0
5720.0				-48.60	2.00	-46.60	Peak	15.6	Pass
5700.0		-49.50		2.00	-47.50	Peak	10	Pass	
5650.0		-50.67		2.00	-48.67	Peak	-27.0	Pass	
5725.0		-53.70		2.00	-51.70	Average	27.0	Pass	
5720.0		-55.30		2.00	-53.30	Average	15.6	Pass	
5700.0		-58.07		2.00	-56.07	Average	10	Pass	
5650.0		-60.17		2.00	-58.17	Average	-27.0	Pass	
5850.0		-45.40		2.00	-43.40	Peak	27.0	Pass	
5855.0		-47.03		2.00	-45.03	Peak	15.6	Pass	
5875.0		-48.12		2.00	-46.12	Peak	10	Pass	
5925.0		-47.93		2.00	-45.93	Peak	-27.0	Pass	
5850.0		-57.37		2.00	-55.37	Average	27.0	Pass	
5855.0		-57.89		2.00	-55.89	Average	15.6	Pass	
5875.0		-58.99		2.00	-56.99	Average	10	Pass	
5925.0		-59.73		2.00	-57.73	Average	-27.0	Pass	

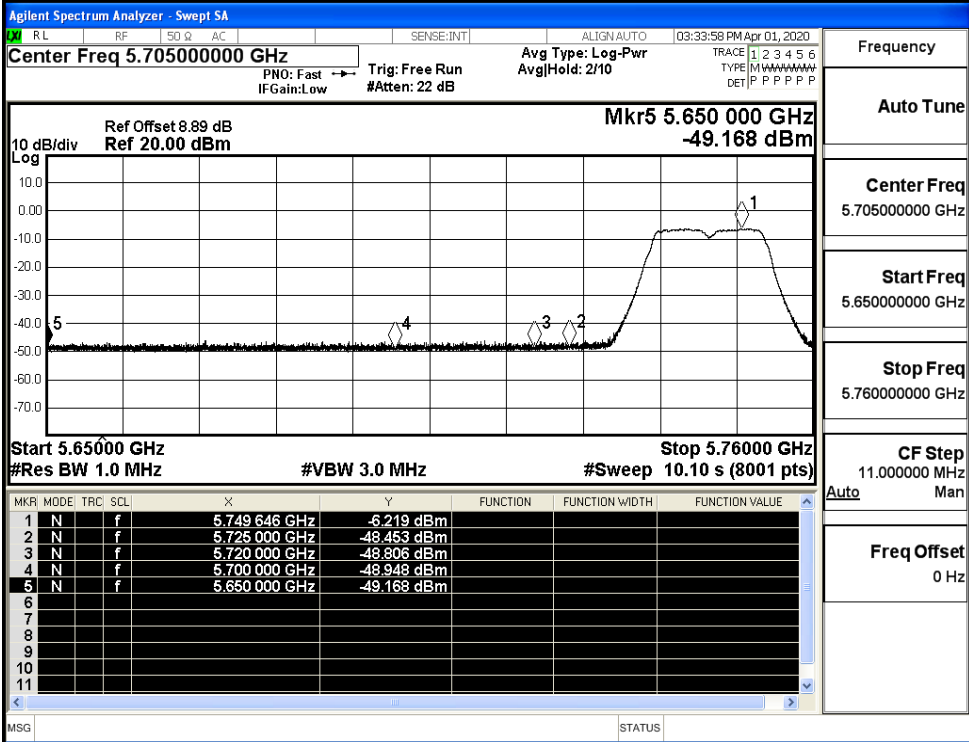
Combined Ant_0 and Ant_1

Test Mode	Channel	Frequency (MHz)	Conducted Power (dBm)			Directional Gain [dBi]	EIRP (dBm/MHz)	Detector	Limit (dBm/MHz)	Verdict
			Ant_0	Ant_1	Sum					
11N20	149	5650.0	-48.11	-48.69	-45.38	3.01	-42.37	Peak	-27.0	Pass
		5650.0	-60.80	-60.37	-57.57	3.01	-54.56	Average	-27.0	Pass
		5700.0	-48.42	-47.26	-44.79	3.01	-41.78	Peak	10	Pass
		5700.0	-60.39	-59.59	-56.96	3.01	-53.95	Average	10	Pass
		5720.0	-48.86	-47.47	-45.10	3.01	-42.09	Peak	15.6	Pass
		5720.0	-60.57	-59.93	-57.23	3.01	-54.22	Average	15.6	Pass
		5725.0	-47.72	-42.14	-41.08	3.01	-38.07	Peak	27.0	Pass
		5725.0	-60.19	-56.74	-55.12	3.01	-52.11	Average	27.0	Pass
	165	5850.0	-48.20	-47.46	-44.80	3.01	-41.79	Peak	27.0	Pass
		5850.0	-60.36	-59.04	-56.64	3.01	-53.63	Average	27.0	Pass
		5855.0	-48.16	-47.18	-44.63	3.01	-41.62	Peak	15.6	Pass
		5855.0	-60.41	-59.33	-56.83	3.01	-53.82	Average	15.6	Pass
		5875.0	-47.97	-46.35	-44.07	3.01	-41.06	Peak	10	Pass
		5875.0	-60.53	-59.62	-57.04	3.01	-54.03	Average	10	Pass
		5925.0	-49.78	-48.27	-45.95	3.01	-42.94	Peak	-27.0	Pass
		5925.0	-60.86	-60.10	-57.45	3.01	-54.44	Average	-27.0	Pass
11N40	151	5650.0	-48.40	-48.79	-45.58	3.01	-42.57	Peak	-27.0	Pass
		5650.0	-60.66	-60.20	-57.41	3.01	-54.40	Average	-27.0	Pass
		5700.0	-48.77	-47.98	-45.35	3.01	-42.34	Peak	10	Pass
		5700.0	-60.42	-59.34	-56.84	3.01	-53.83	Average	10	Pass
		5720.0	-47.91	-40.85	-40.07	3.01	-37.06	Peak	15.6	Pass
		5720.0	-60.19	-56.44	-54.91	3.01	-51.90	Average	15.6	Pass
		5725.0	-48.03	-31.98	-31.87	3.01	-28.86	Peak	27.0	Pass
		5725.0	-60.02	-54.20	-53.19	3.01	-50.18	Average	27.0	Pass
	159	5850.0	-48.50	-48.04	-45.25	3.01	-42.24	Peak	27.0	Pass
		5850.0	-59.98	-58.80	-56.34	3.01	-53.33	Average	27.0	Pass
		5855.0	-48.85	-47.58	-45.16	3.01	-42.15	Peak	15.6	Pass
		5855.0	-60.04	-58.98	-56.47	3.01	-53.46	Average	15.6	Pass
		5875.0	-49.21	-47.60	-45.32	3.01	-42.31	Peak	10	Pass
		5875.0	-60.15	-59.26	-56.67	3.01	-53.66	Average	10	Pass
		5925.0	-48.66	-48.02	-45.32	3.01	-42.31	Peak	-27.0	Pass
		5925.0	-60.50	-59.79	-57.12	3.01	-54.11	Average	-27.0	Pass
11AC 20	149	5650.0	-48.89	-48.25	-45.55	3.01	-42.54	Peak	-27.0	Pass
		5650.0	-60.82	-60.28	-57.53	3.01	-54.52	Average	-27.0	Pass
		5700.0	-47.88	-48.41	-45.13	3.01	-42.12	Peak	10	Pass
		5700.0	-60.42	-59.51	-56.93	3.01	-53.92	Average	10	Pass

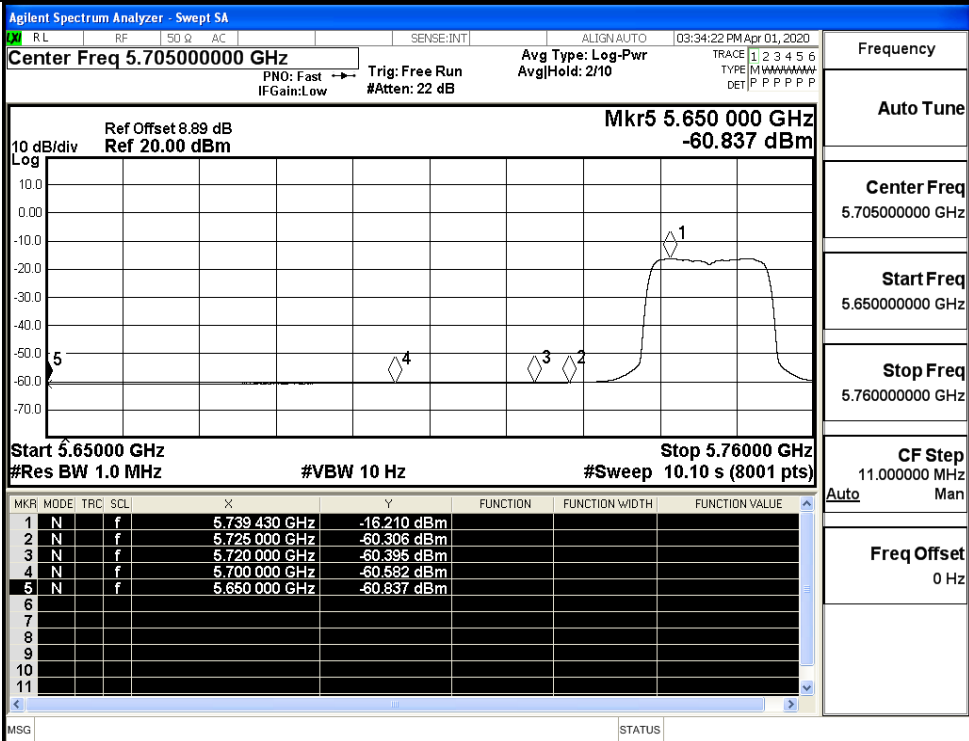
		5720.0	-49.02	-46.97	-44.86	3.01	-41.85	Peak	15.6	Pass
		5720.0	-60.56	-58.79	-56.58	3.01	-53.57	Average	15.6	Pass
		5725.0	-47.83	-40.28	-39.58	3.01	-36.57	Peak	27.0	Pass
		5725.0	-60.24	-56.66	-55.08	3.01	-52.07	Average	27.0	Pass
	165	5850.0	-48.05	-47.73	-44.88	3.01	-41.87	Peak	27.0	Pass
		5850.0	-60.32	-58.93	-56.56	3.01	-53.55	Average	27.0	Pass
		5855.0	-47.46	-46.86	-44.14	3.01	-41.13	Peak	15.6	Pass
		5855.0	-60.38	-59.28	-56.78	3.01	-53.77	Average	15.6	Pass
		5875.0	-48.96	-47.35	-45.07	3.01	-42.06	Peak	10	Pass
		5875.0	-60.52	-59.55	-57.00	3.01	-53.99	Average	10	Pass
		5925.0	-49.64	-48.31	-45.91	3.01	-42.90	Peak	-27.0	Pass
		5925.0	-60.84	-60.02	-57.40	3.01	-54.39	Average	-27.0	Pass
11AC 40	151	5650.0	-49.10	-48.05	-45.53	3.01	-42.52	Peak	-27.0	Pass
		5650.0	-60.71	-60.16	-57.42	3.01	-54.41	Average	-27.0	Pass
		5700.0	-49.71	-46.92	-45.08	3.01	-42.07	Peak	10	Pass
		5700.0	-60.41	-59.30	-56.81	3.01	-53.80	Average	10	Pass
		5720.0	-48.46	-38.75	-38.31	3.01	-35.30	Peak	15.6	Pass
		5720.0	-60.14	-56.41	-54.88	3.01	-51.87	Average	15.6	Pass
		5725.0	-48.39	-40.18	-39.57	3.01	-36.56	Peak	27.0	Pass
		5725.0	-60.05	-54.23	-53.22	3.01	-50.21	Average	27.0	Pass
	159	5850.0	-47.42	-47.20	-44.30	3.01	-41.29	Peak	27.0	Pass
		5850.0	-59.99	-58.99	-56.45	3.01	-53.44	Average	27.0	Pass
		5855.0	-49.60	-48.30	-45.89	3.01	-42.88	Peak	15.6	Pass
		5855.0	-60.07	-59.09	-56.54	3.01	-53.53	Average	15.6	Pass
		5875.0	-49.30	-47.54	-45.32	3.01	-42.31	Peak	10	Pass
		5875.0	-60.12	-59.38	-56.72	3.01	-53.71	Average	10	Pass
		5925.0	-48.93	-47.48	-45.13	3.01	-42.12	Peak	-27.0	Pass
		5925.0	-60.48	-59.96	-57.20	3.01	-54.19	Average	-27.0	Pass
11AC 80	155	5725.0	-45.28	-45.27	-42.26	3.01	-39.25	Peak	27.0	Pass
		5720.0	-48.60	-48.60	-45.59	3.01	-42.58	Peak	15.6	Pass
		5700.0	-49.50	-49.50	-46.49	3.01	-43.48	Peak	10	Pass
		5650.0	-50.67	-50.67	-47.66	3.01	-44.65	Peak	-27.0	Pass
		5725.0	-53.70	-53.70	-50.69	3.01	-47.68	Average	27.0	Pass
		5720.0	-55.30	-55.30	-52.29	3.01	-49.28	Average	15.6	Pass
		5700.0	-58.07	-58.07	-55.06	3.01	-52.05	Average	10	Pass
		5650.0	-60.17	-60.17	-57.16	3.01	-54.15	Average	-27.0	Pass
		5850.0	-41.14	-45.40	-39.76	3.01	-36.75	Peak	27.0	Pass
		5855.0	-44.41	-47.03	-42.52	3.01	-39.51	Peak	15.6	Pass
		5875.0	-46.88	-48.12	-44.45	3.01	-41.44	Peak	10	Pass

		5925.0	-48.57	-47.93	-45.23	3.01	-42.22	Peak	-27.0	Pass
		5850.0	-55.11	-57.37	-53.08	3.01	-50.07	Average	27.0	Pass
		5855.0	-56.02	-57.89	-53.84	3.01	-50.83	Average	15.6	Pass
		5875.0	-58.46	-58.99	-55.71	3.01	-52.70	Average	10	Pass
		5925.0	-59.55	-59.73	-56.63	3.01	-53.62	Average	-27.0	Pass

Undesirable Emissions Measurement_Ant_0

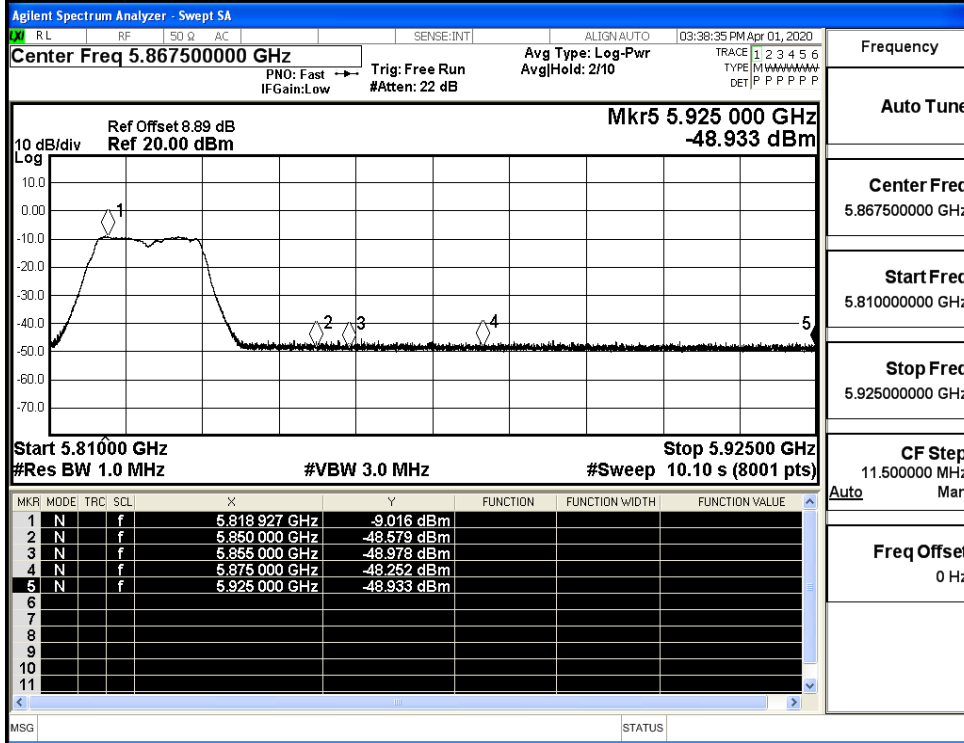


IEEE 802.11a / Channel 149 / 5745MHz / Peak

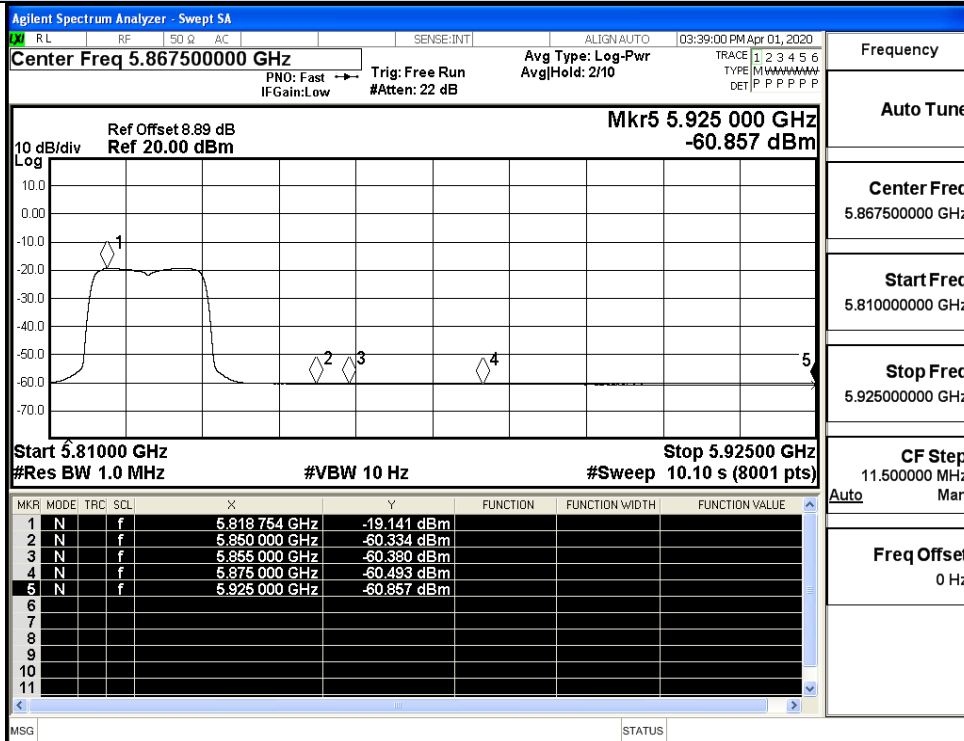


IEEE 802.11a / Channel 148 / 5745MHz / Average

Undesirable Emissions Measurement

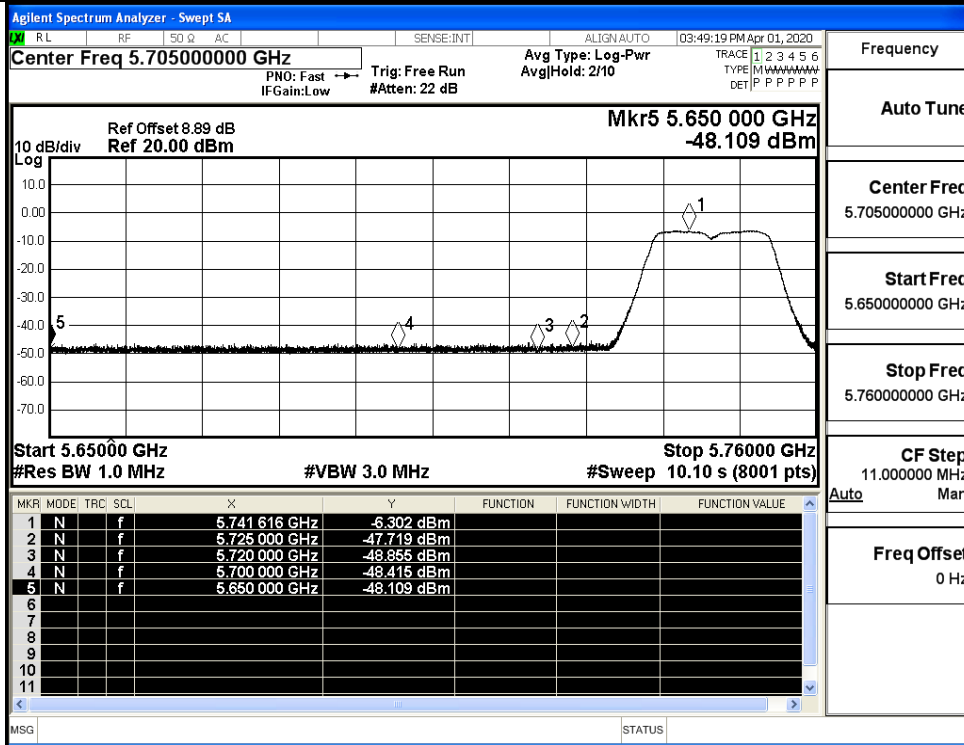


IEEE 802.11a / Channel 165 / 5825MHz / Peak

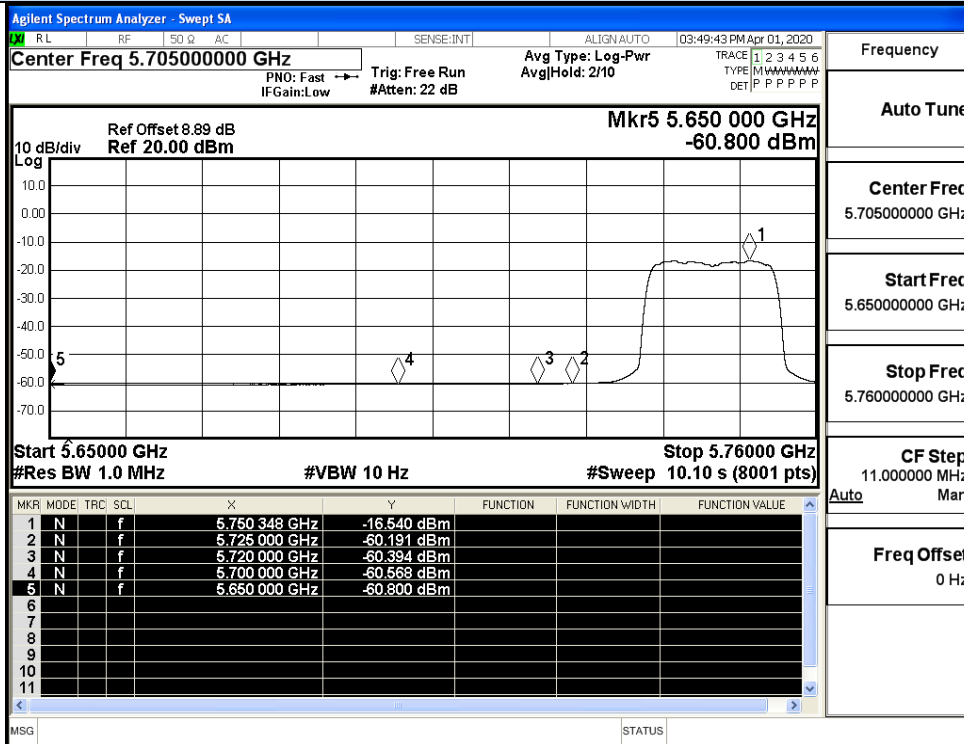


IEEE 802.11a / Channel 165 / 5825MHz / Average

Undesirable Emissions Measurement

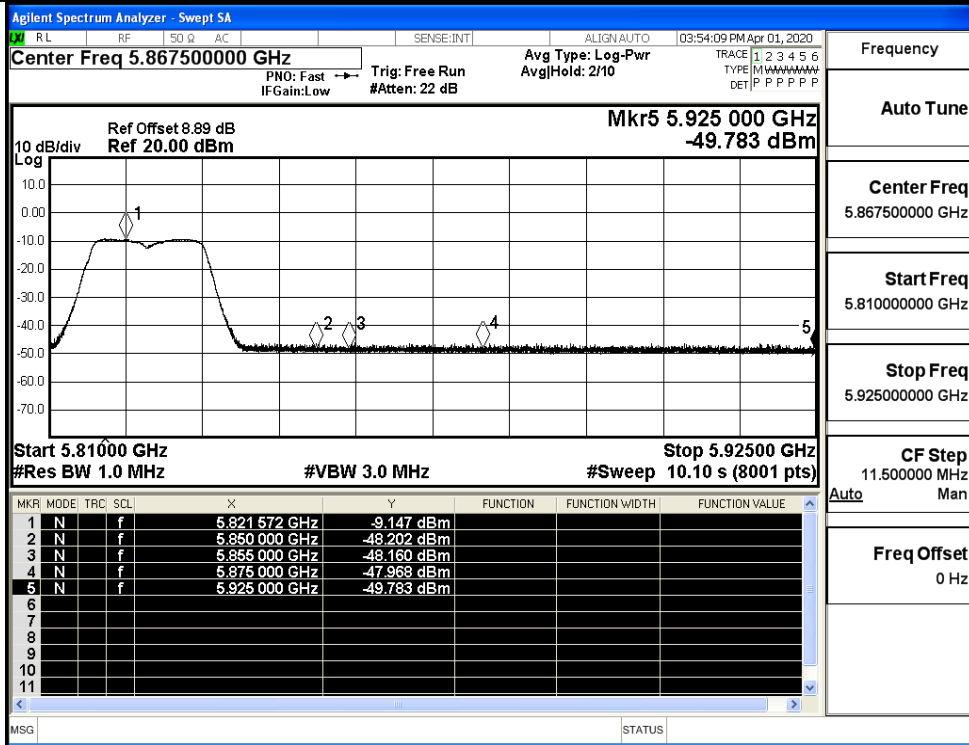


IEEE 802.11n20 / Channel 149 / 5745MHz / Peak

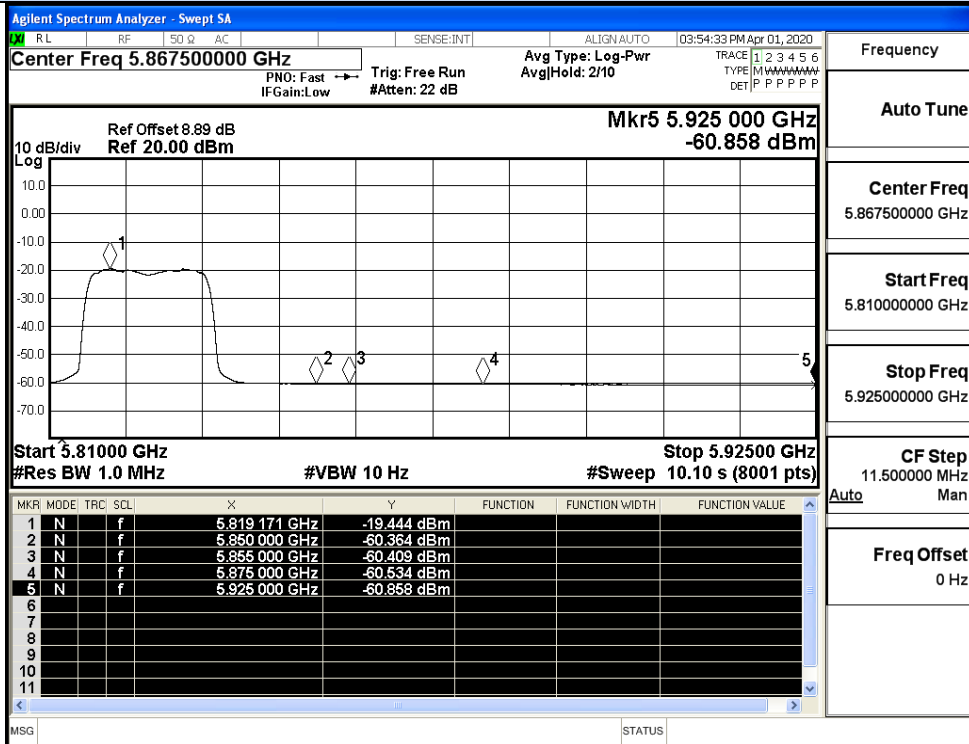


IEEE 802.11n20 / Channel 149 / 5745MHz / Average

Undesirable Emissions Measurement

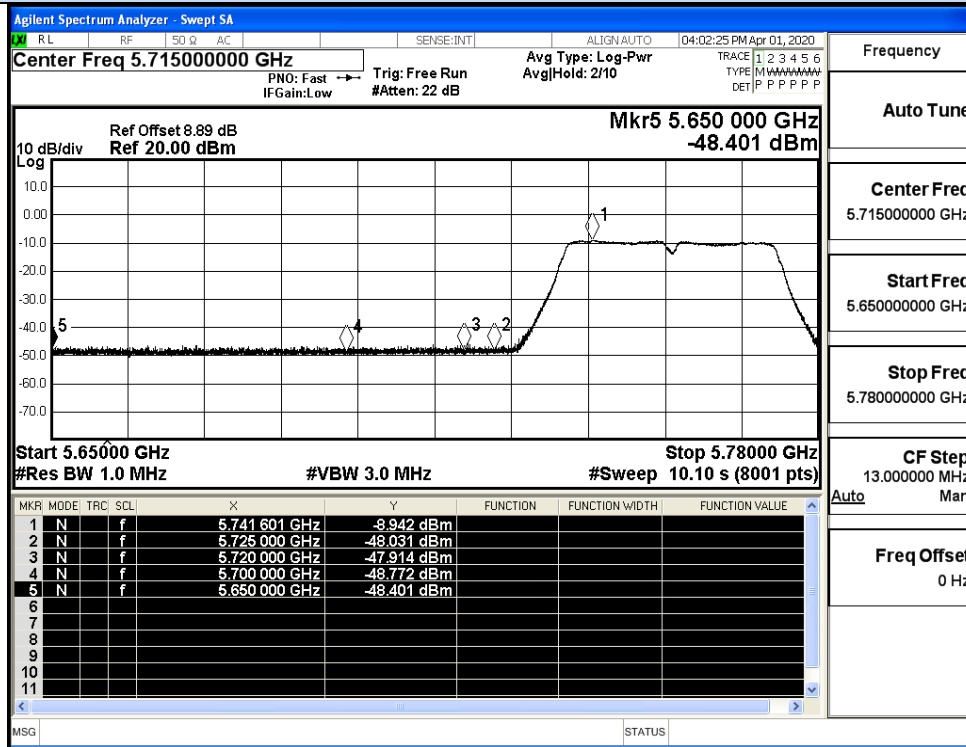


IEEE 802.11n20 / Channel 165 / 5825MHz / Peak

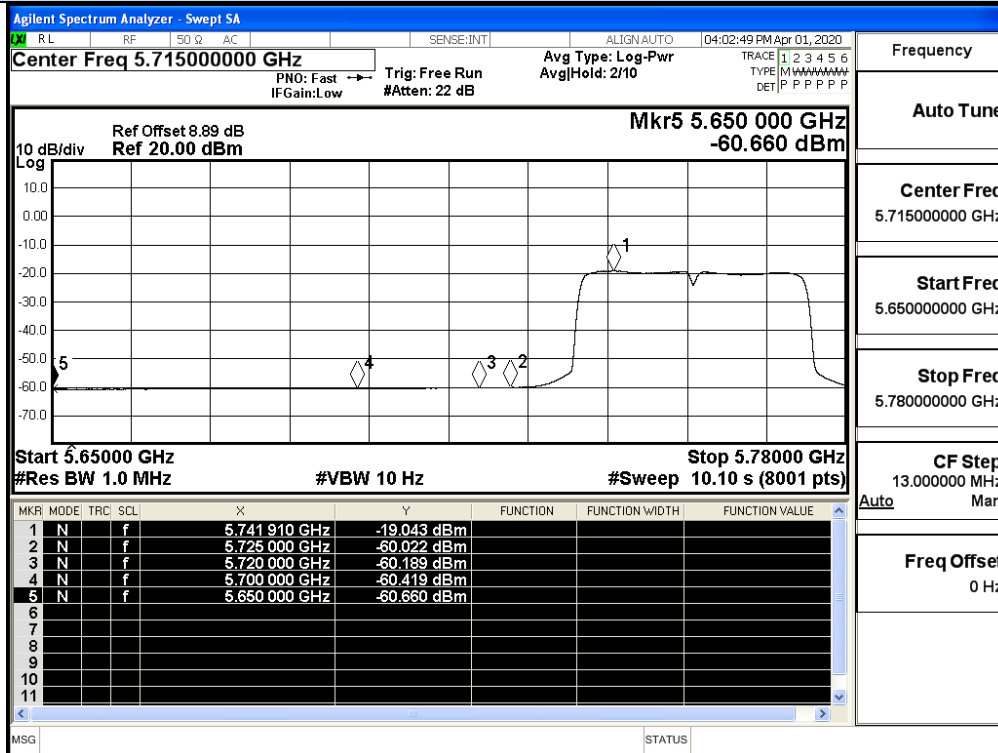


IEEE 802.11n20 / Channel 165 / 5825MHz / Average

Undesirable Emissions Measurement

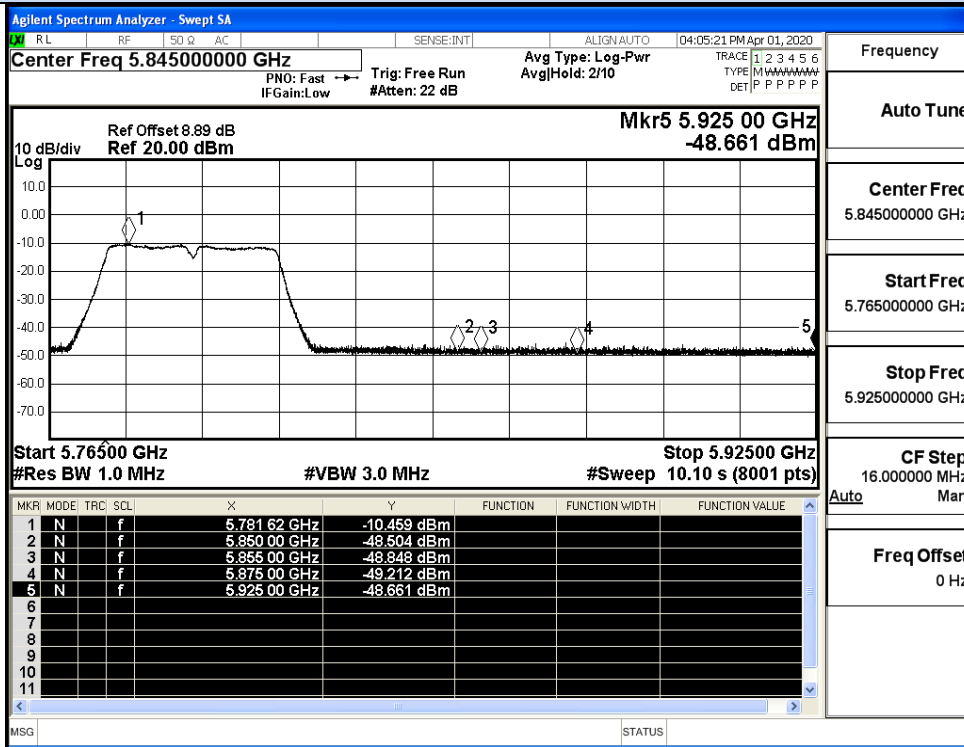


IEEE 802.11n40 / Channel 151 / 5755MHz / Peak

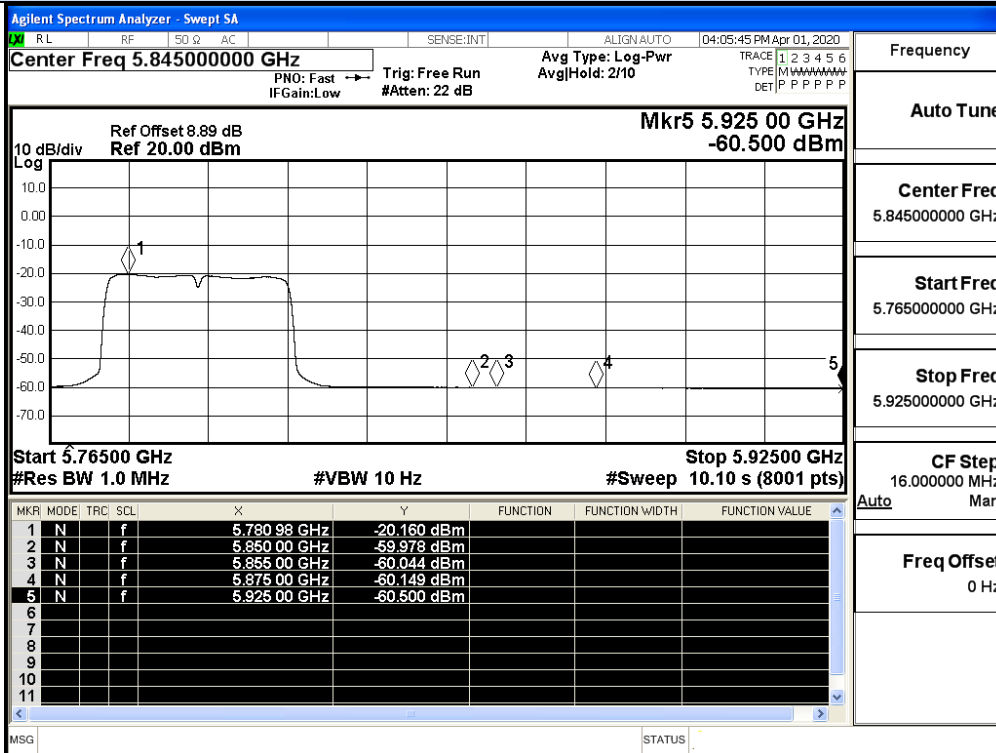


IEEE 802.11n40 / Channel 151 / 5755MHz / Average

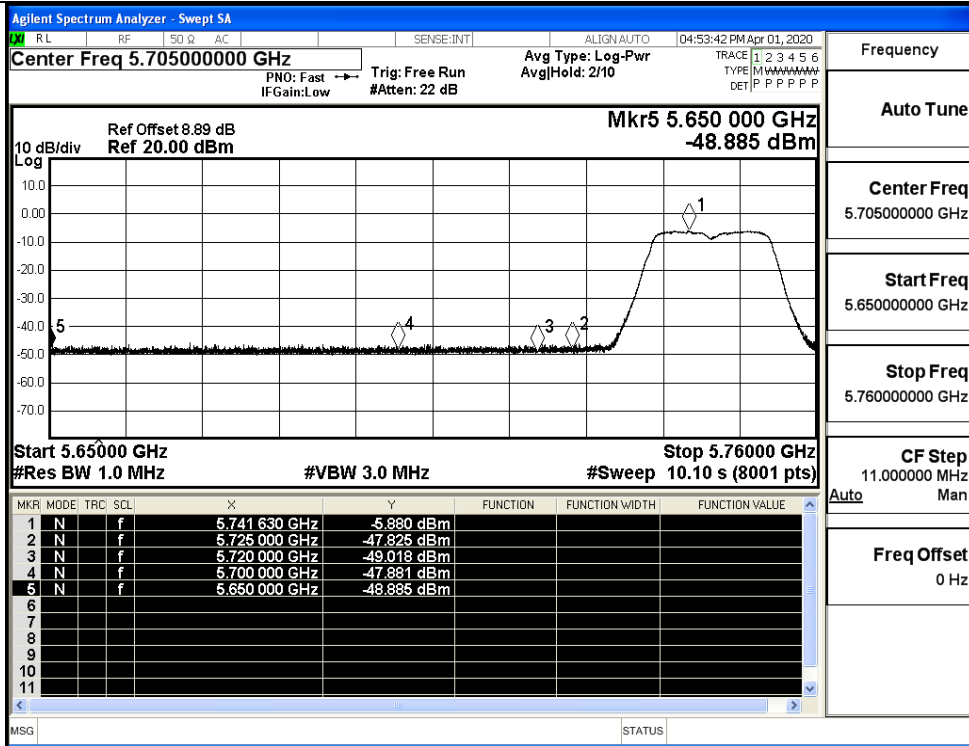
Undesirable Emissions Measurement



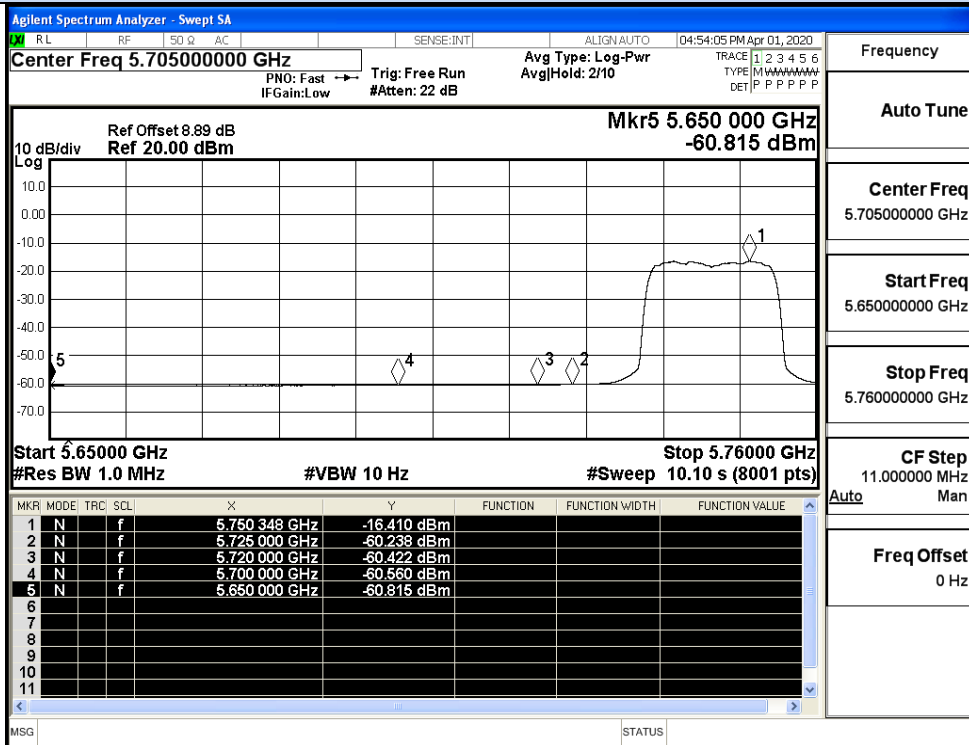
IEEE 802.11n40 / Channel 159 / 5795MHz / Peak



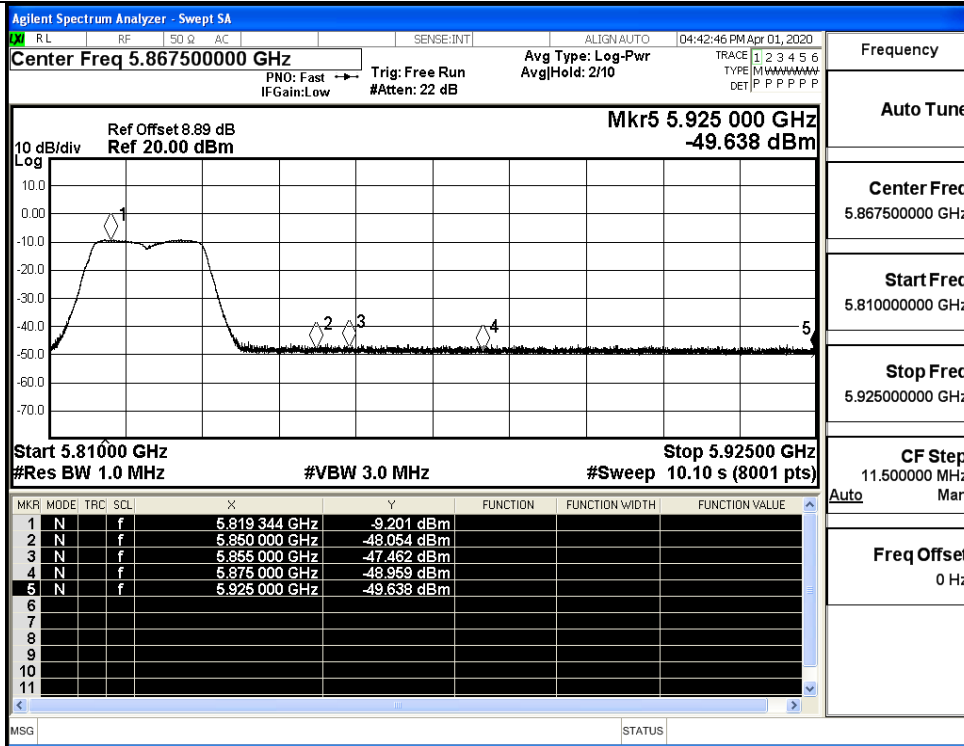
IEEE 802.11n40 / Channel 159 / 5795MHz / Average



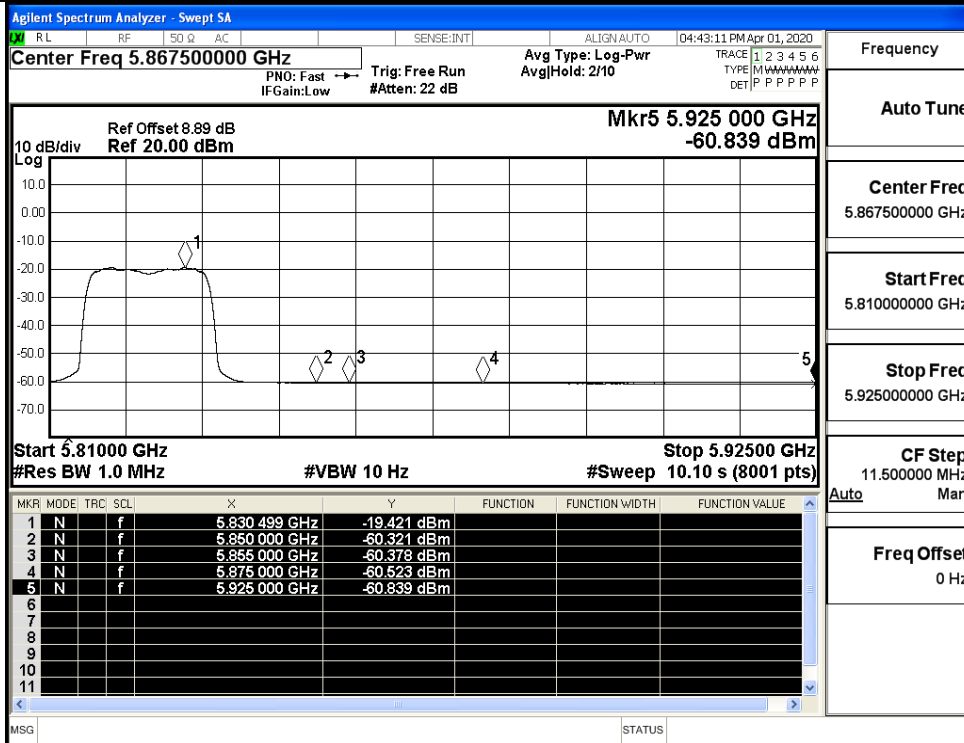
IEEE 802.11ac20 / Channel 149 / 5745MHz / Peak



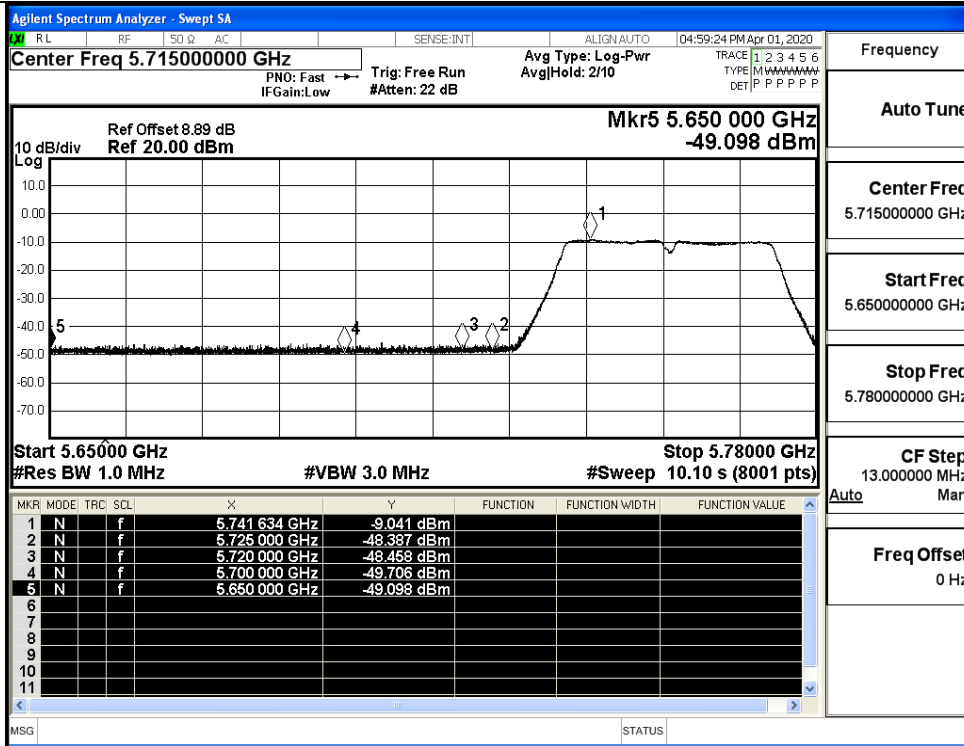
IEEE 802.11ac20 / Channel 149 / 5745MHz / Average



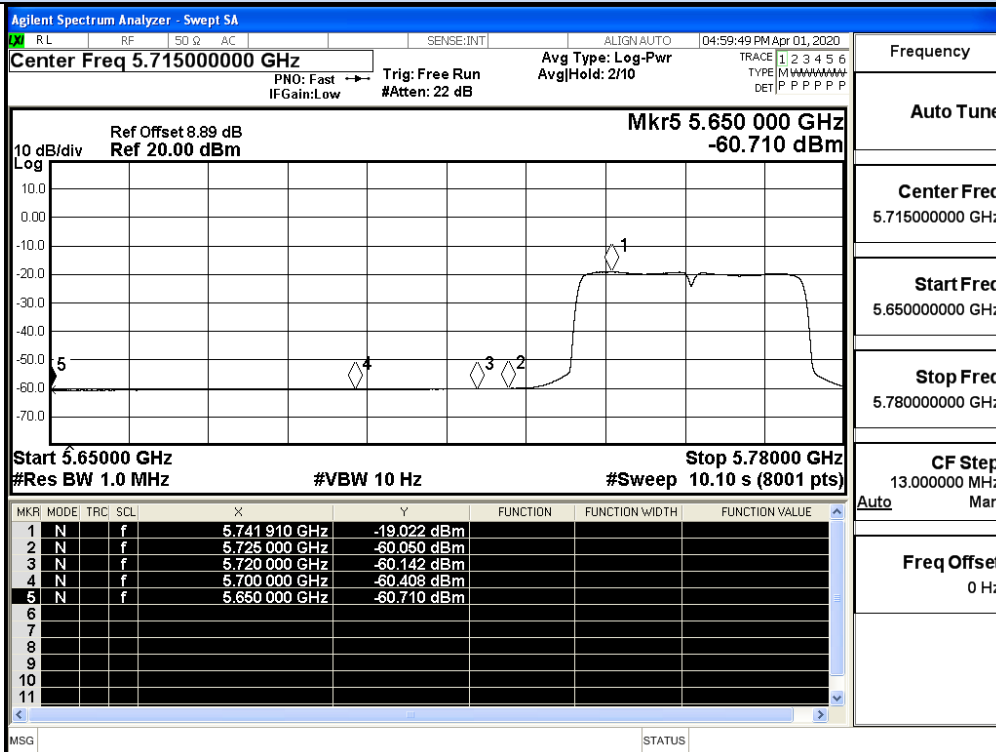
IEEE 802.11ac20 / Channel 165 / 5825MHz / Peak



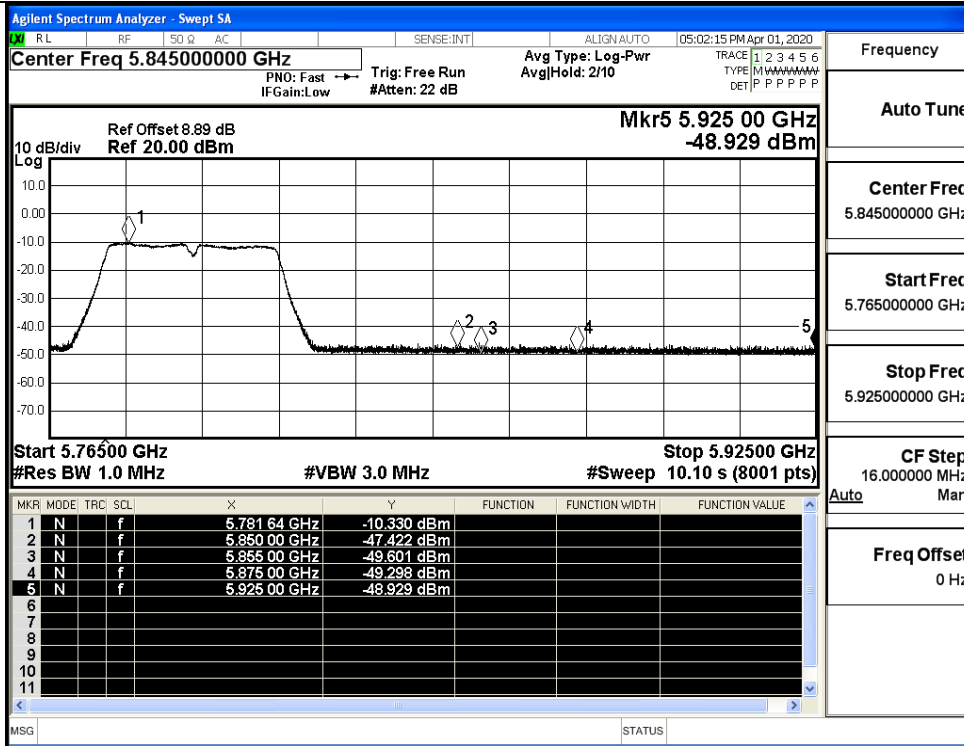
IEEE 802.11ac20 / Channel 165 / 5825MHz / Average



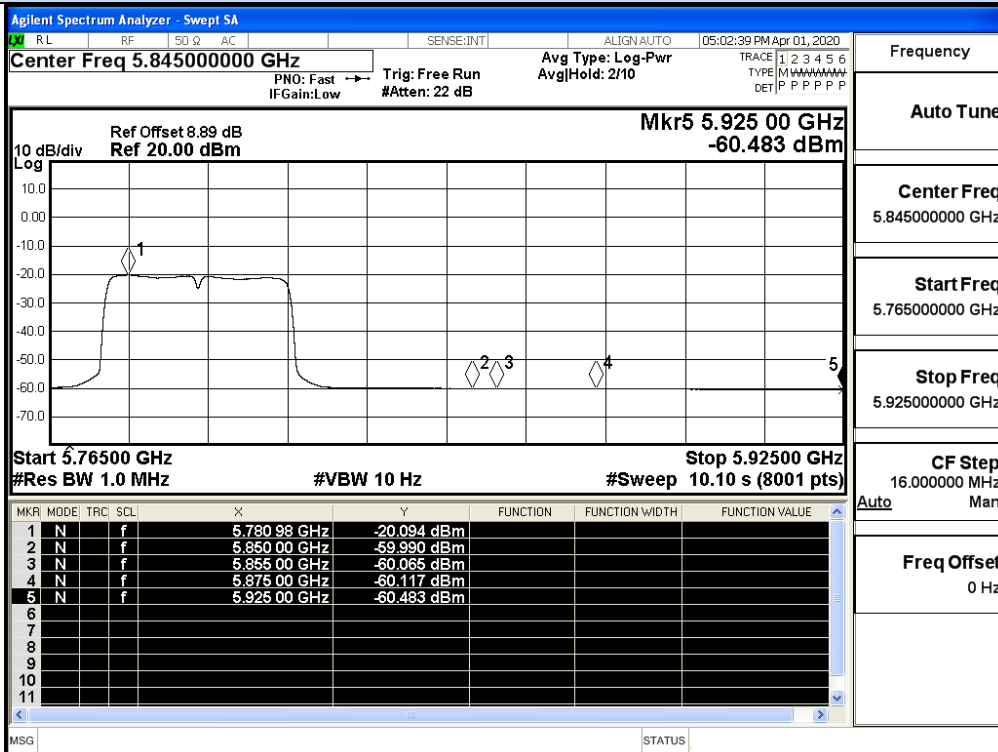
IEEE 802.11ac40 / Channel 151 / 5755MHz / Peak



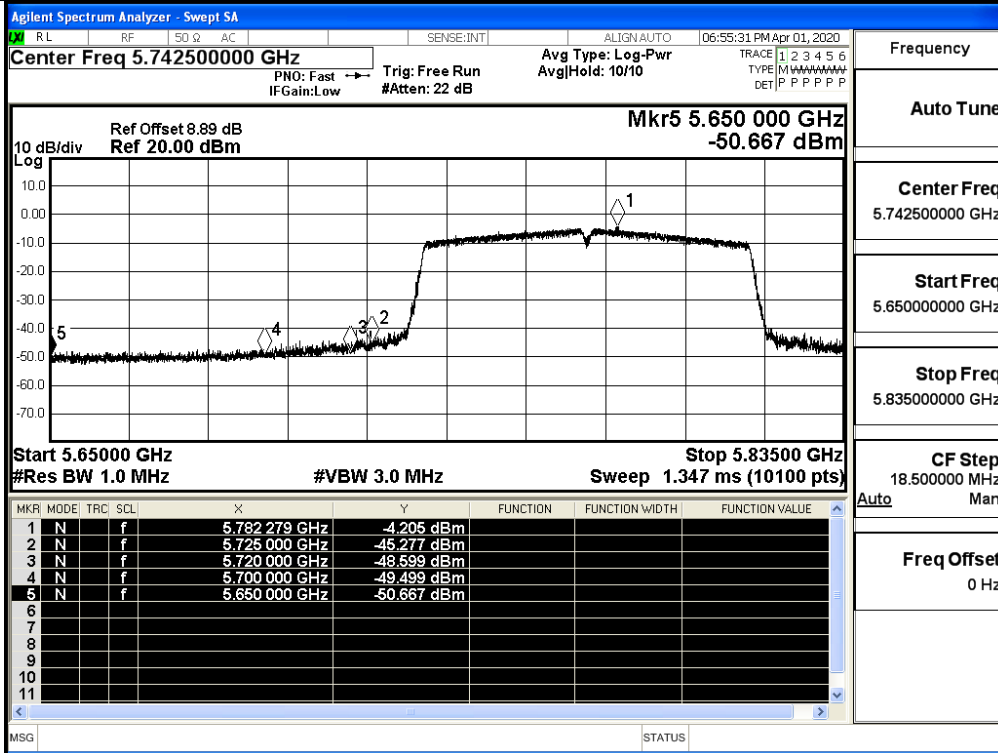
IEEE 802.11ac40 / Channel 151 / 5755MHz / Average



IEEE 802.11ac40 / Channel 159 / 5795MHz / Peak

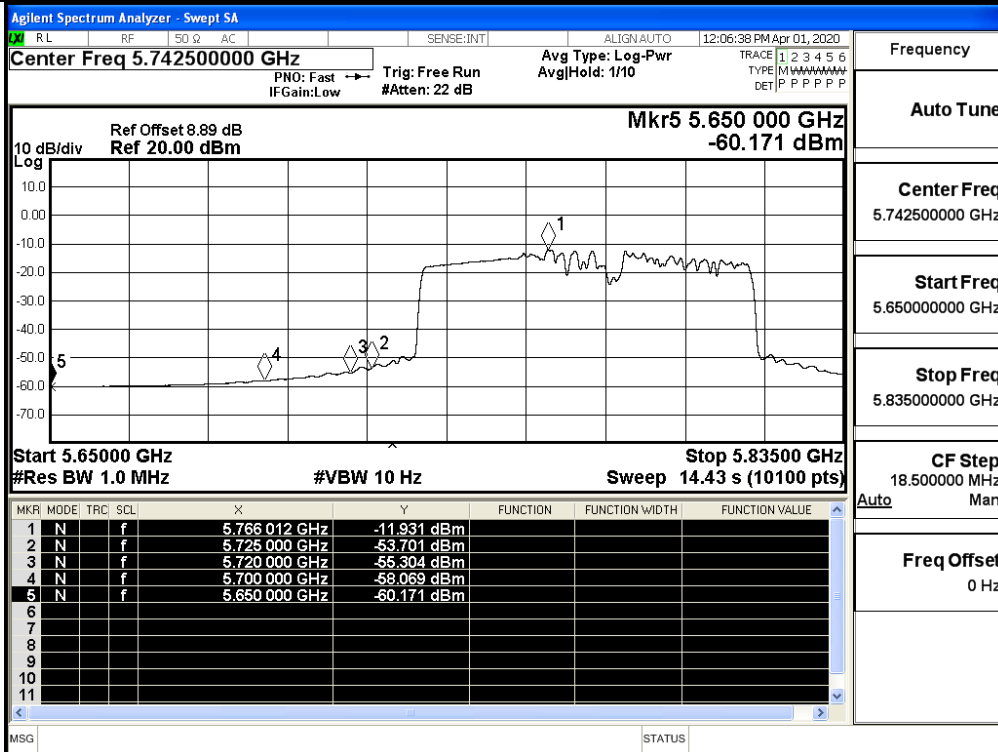


IEEE 802.11ac40 / Channel 159 / 5795MHz / Average



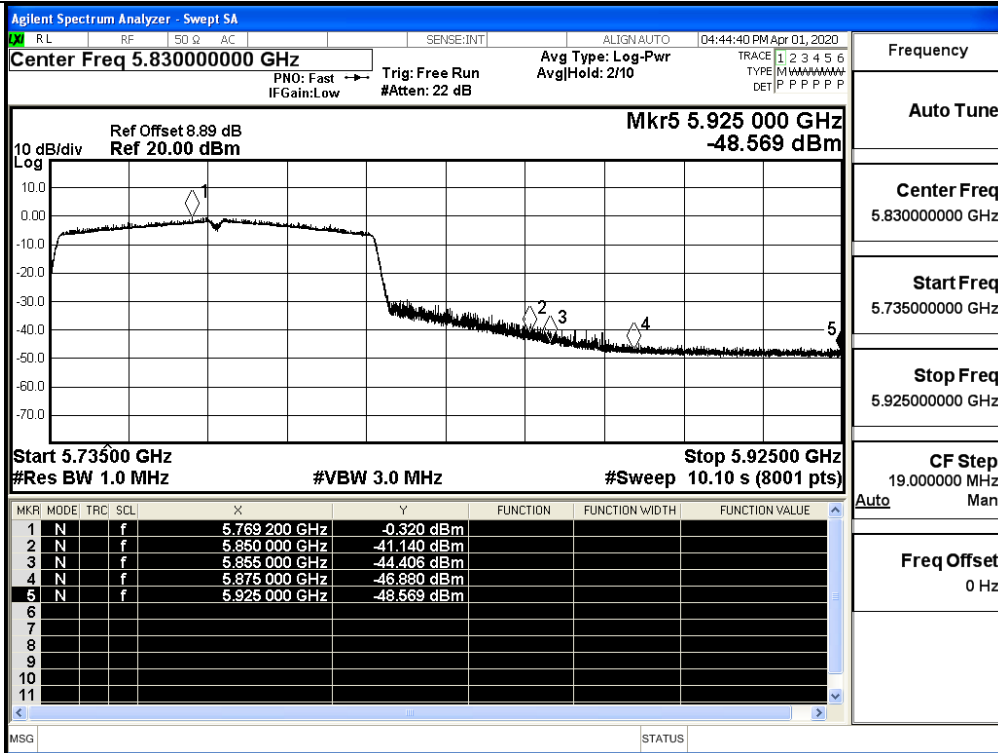
Frequency
Auto Tune
Center Freq 5.742500000 GHz
Start Freq 5.650000000 GHz
Stop Freq 5.835000000 GHz
CF Step 18.500000 MHz
Auto Man
Freq Offset 0 Hz

IEEE 802.11ac80 / Channel 155 / 5775MHz / Peak

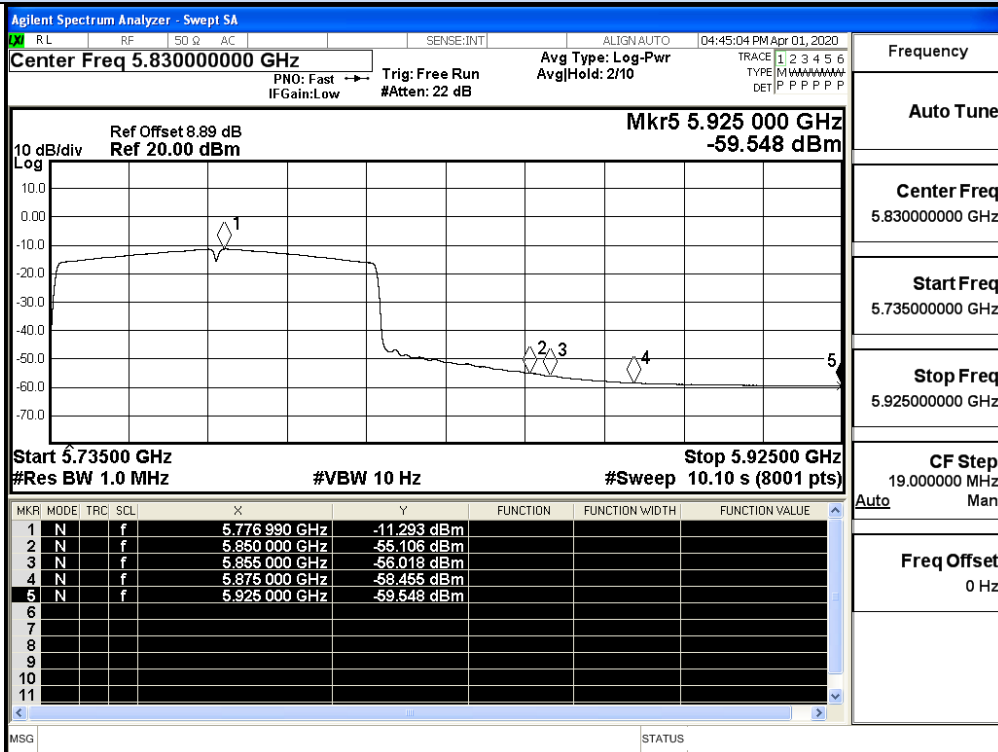


Frequency
Auto Tune
Center Freq 5.742500000 GHz
Start Freq 5.650000000 GHz
Stop Freq 5.835000000 GHz
CF Step 18.500000 MHz
Auto Man
Freq Offset 0 Hz

IEEE 802.11ac80 / Channel 155 / 5775MHz / Average

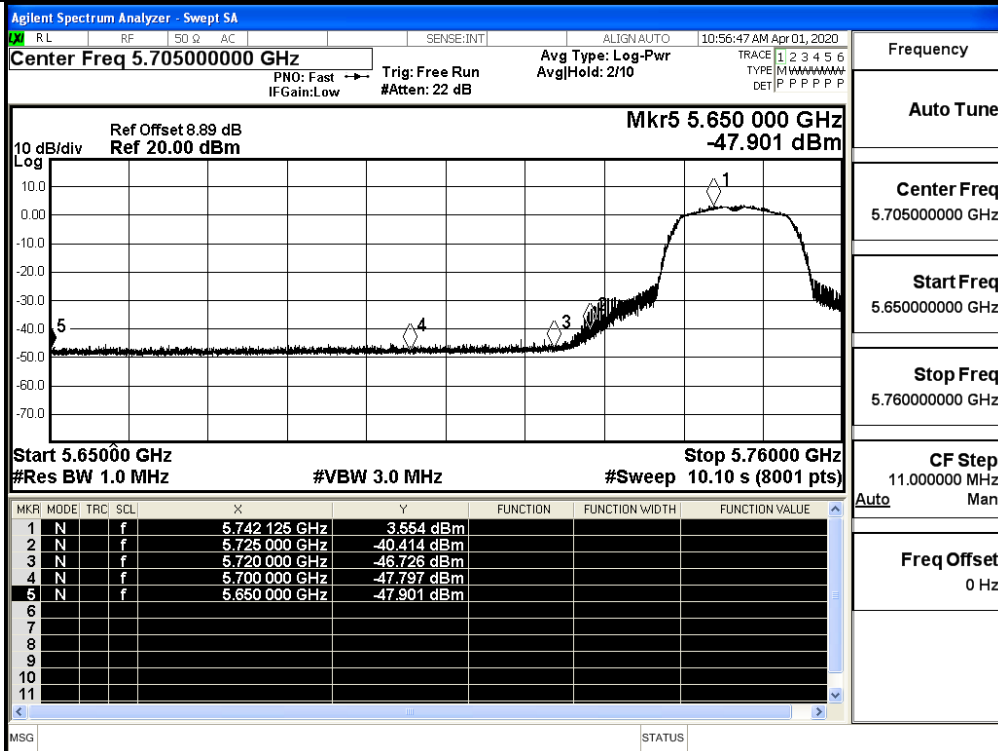


IEEE 802.11ac80 / Channel 155/ 5775MHz / Peak

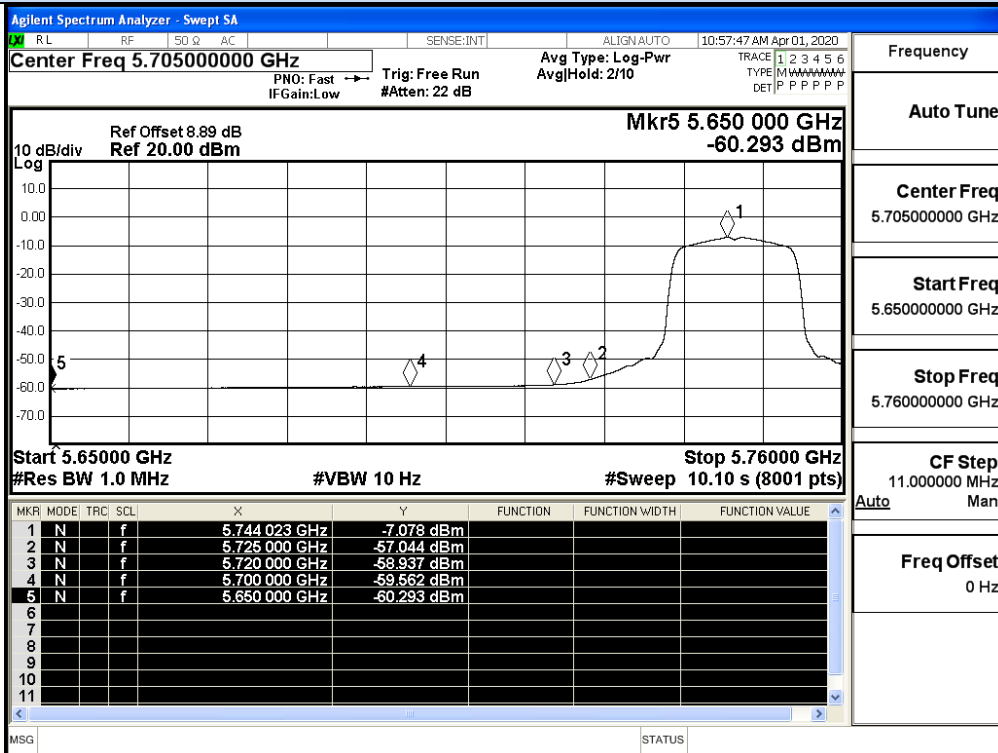


IEEE 802.11ac80 / Channel 155 / 5775MHz / Average

Undesirable Emissions Measurement_Ant_1

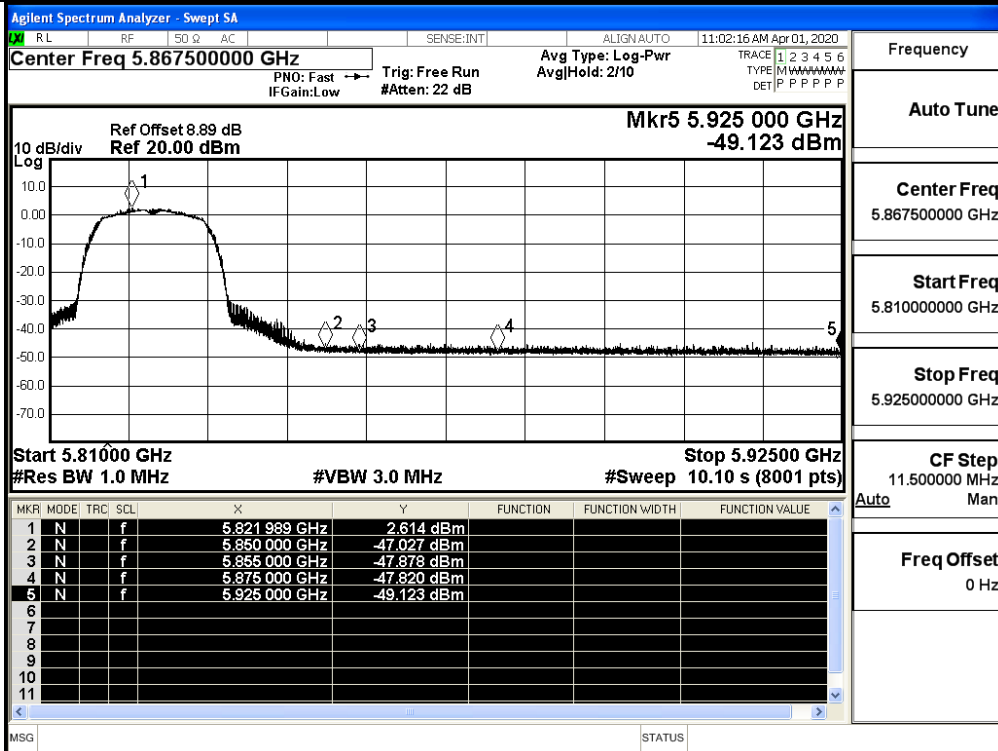


IEEE 802.11a / Channel 149 / 5745MHz / Peak



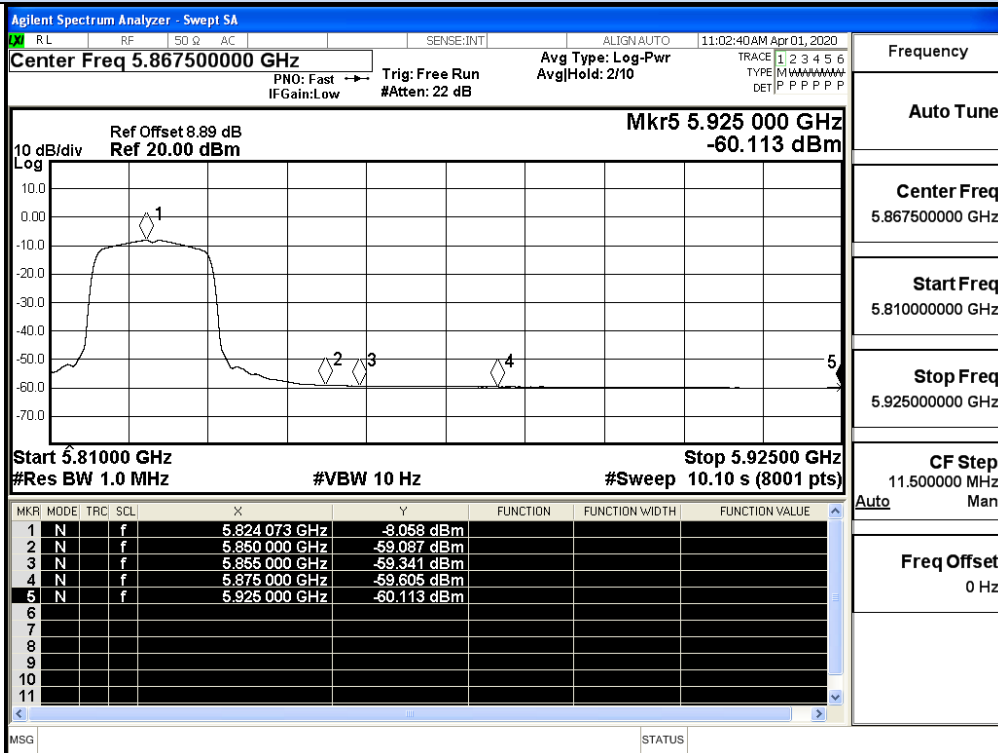
IEEE 802.11a / Channel 148 / 5745MHz / Average

Undesirable Emissions Measurement



Frequency	
Auto Tune	
Center Freq	5.867500000 GHz
Start Freq	5.810000000 GHz
Stop Freq	5.925000000 GHz
CF Step	11.500000 MHz
Auto Man	
Freq Offset	0 Hz

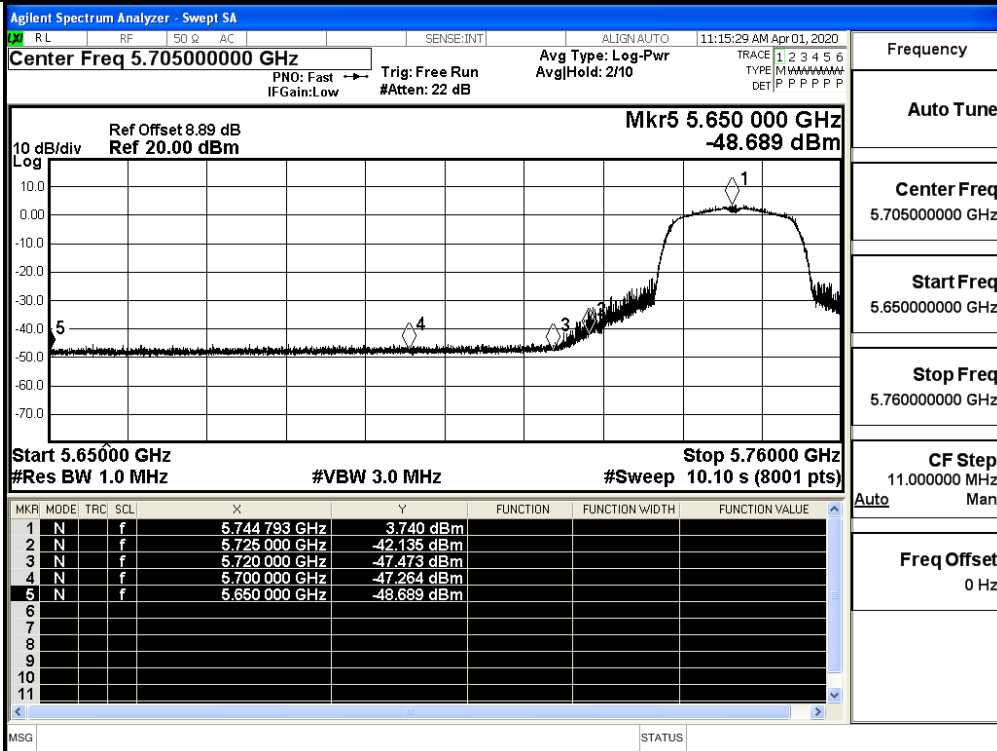
IEEE 802.11a / Channel 165 / 5825MHz / Peak



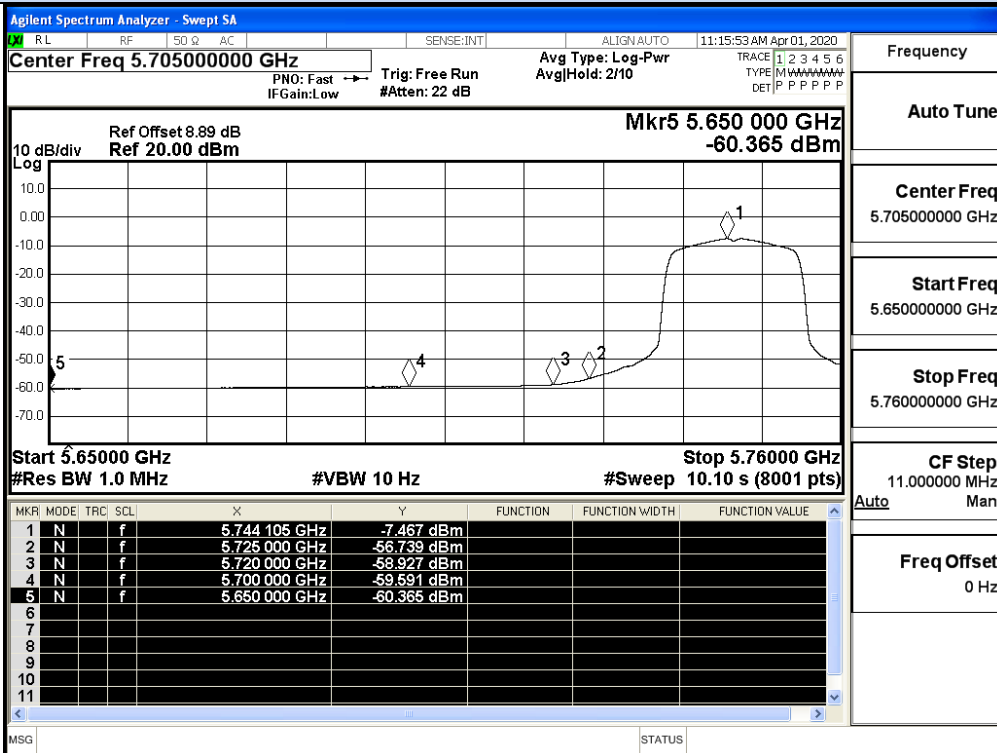
Frequency	
Auto Tune	
Center Freq	5.867500000 GHz
Start Freq	5.810000000 GHz
Stop Freq	5.925000000 GHz
CF Step	11.500000 MHz
Auto Man	
Freq Offset	0 Hz

IEEE 802.11a / Channel 165 / 5825MHz / Average

Undesirable Emissions Measurement

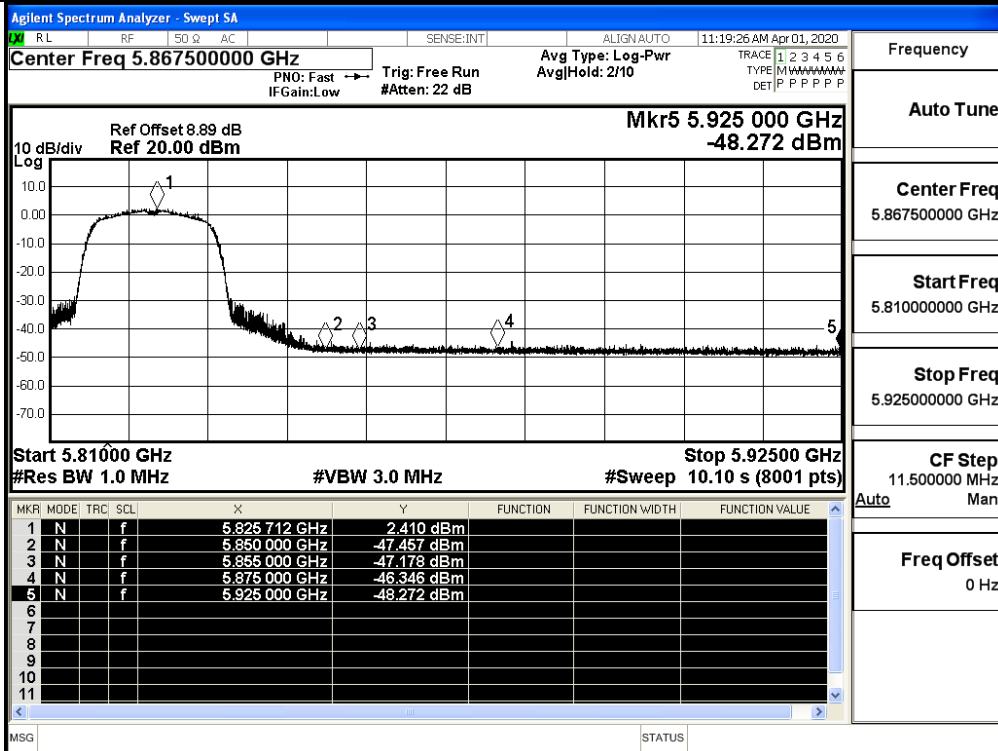


IEEE 802.11n20 / Channel 149 / 5745MHz / Peak

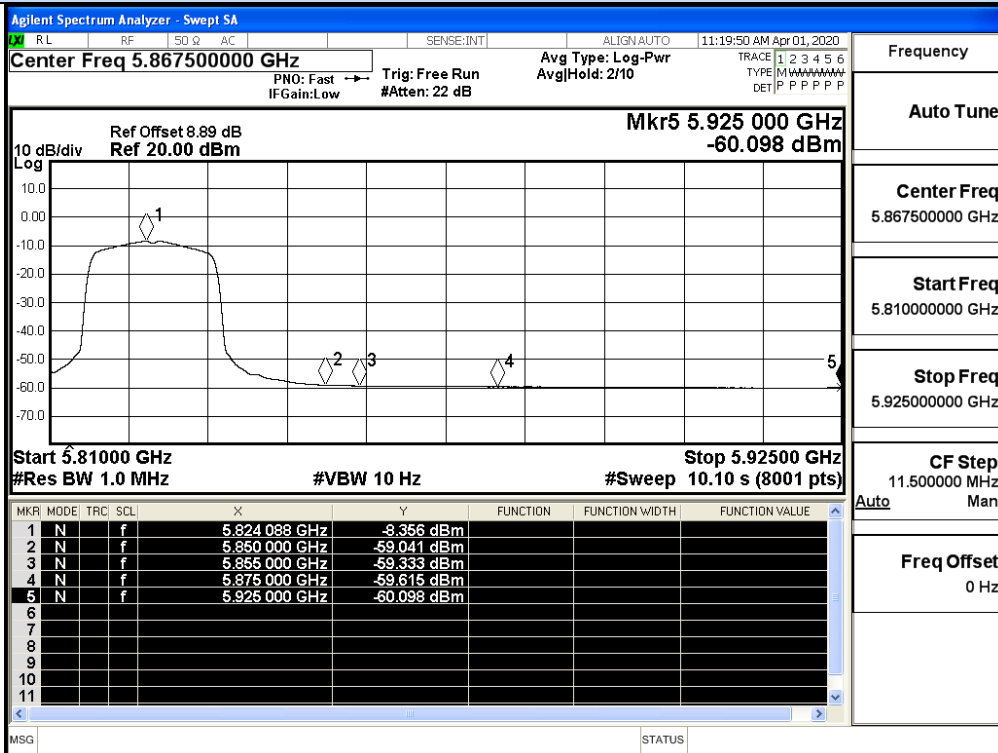


IEEE 802.11n20 / Channel 149 / 5745MHz / Average

Undesirable Emissions Measurement

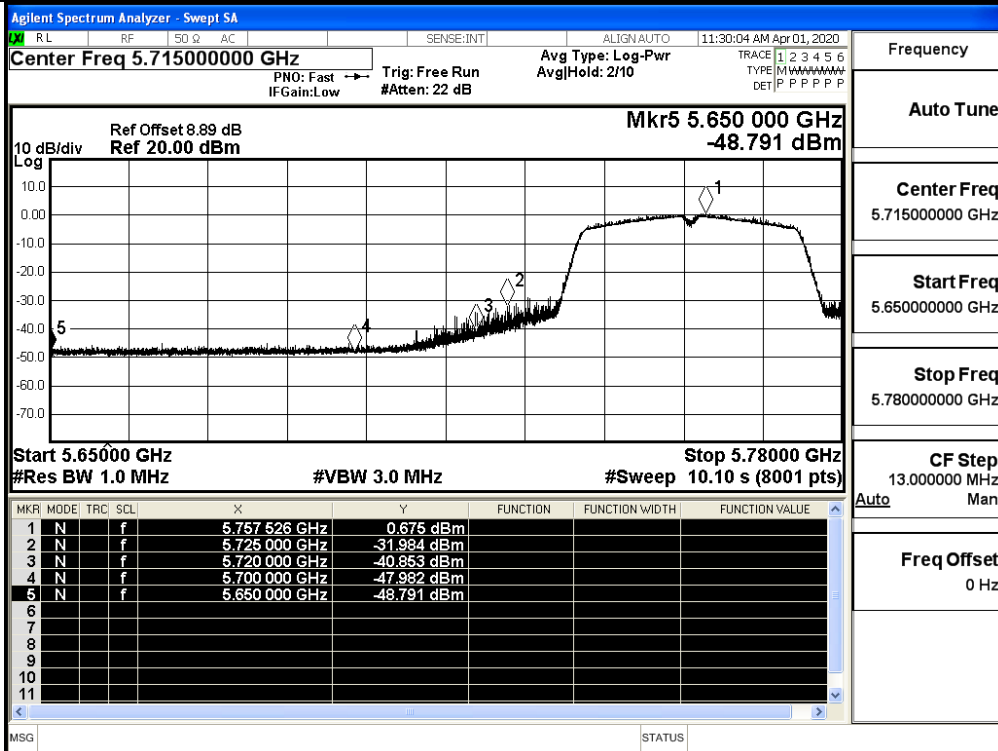


IEEE 802.11n20 / Channel 165 / 5825MHz / Peak

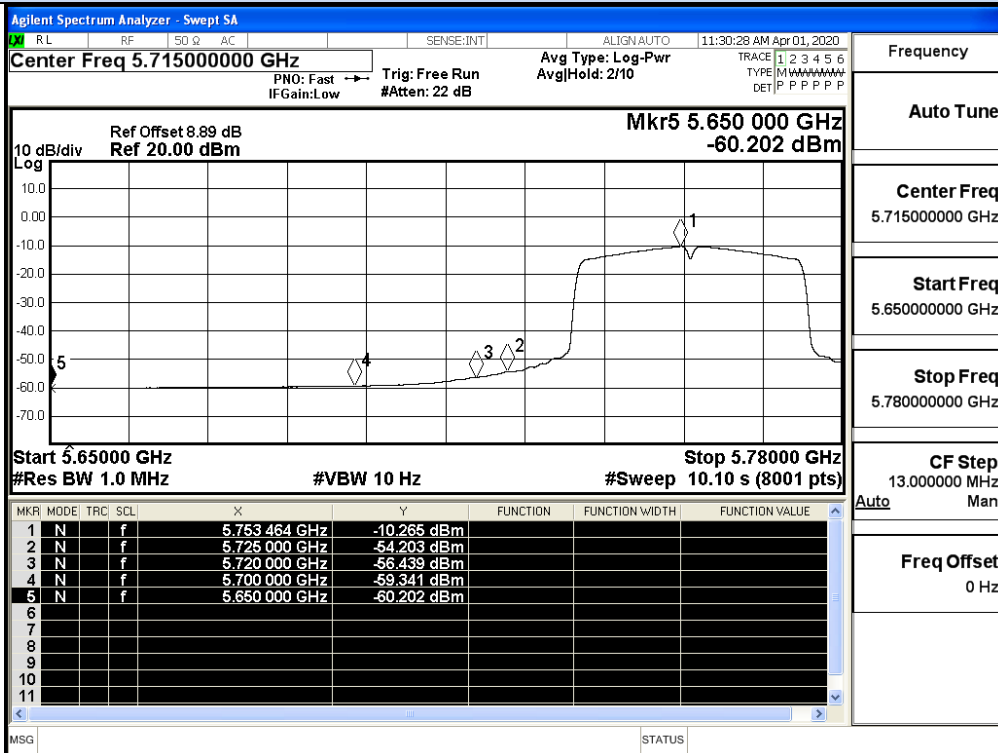


IEEE 802.11n20 / Channel 165 / 5825MHz / Average

Undesirable Emissions Measurement

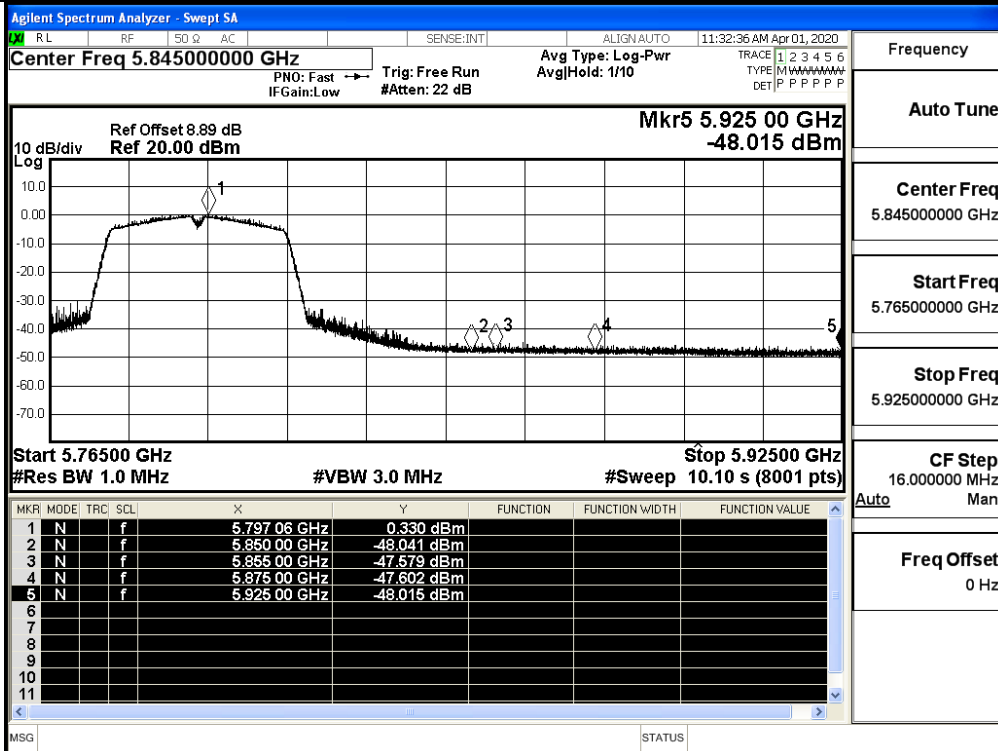


IEEE 802.11n40 / Channel 151 / 5755MHz / Peak



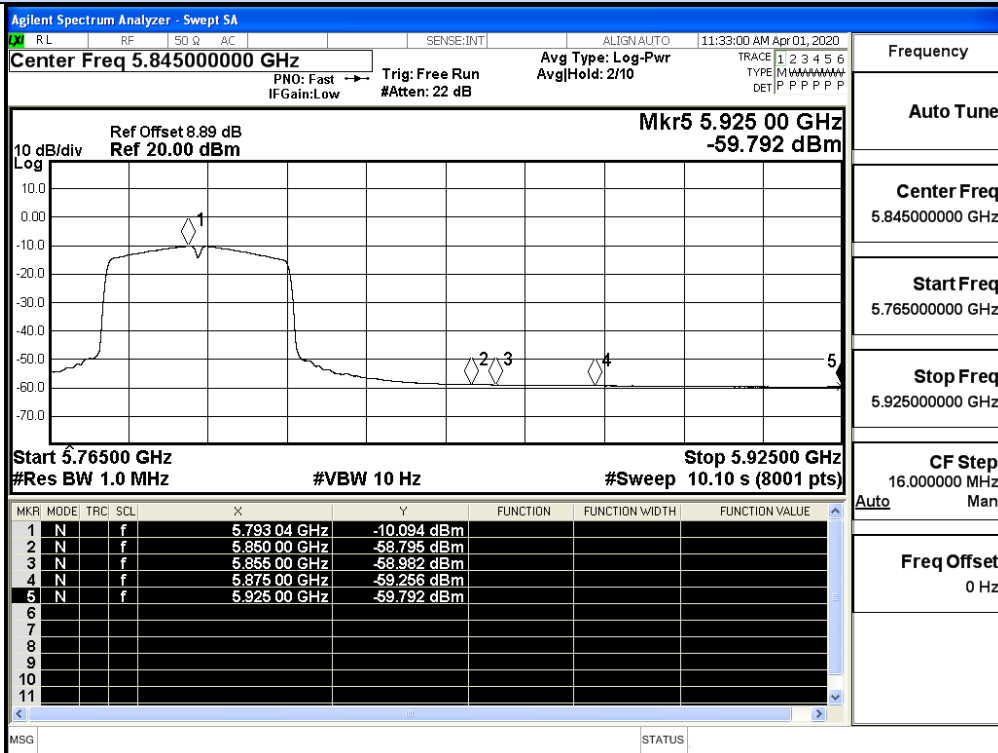
IEEE 802.11n40 / Channel 151 / 5755MHz / Average

Undesirable Emissions Measurement



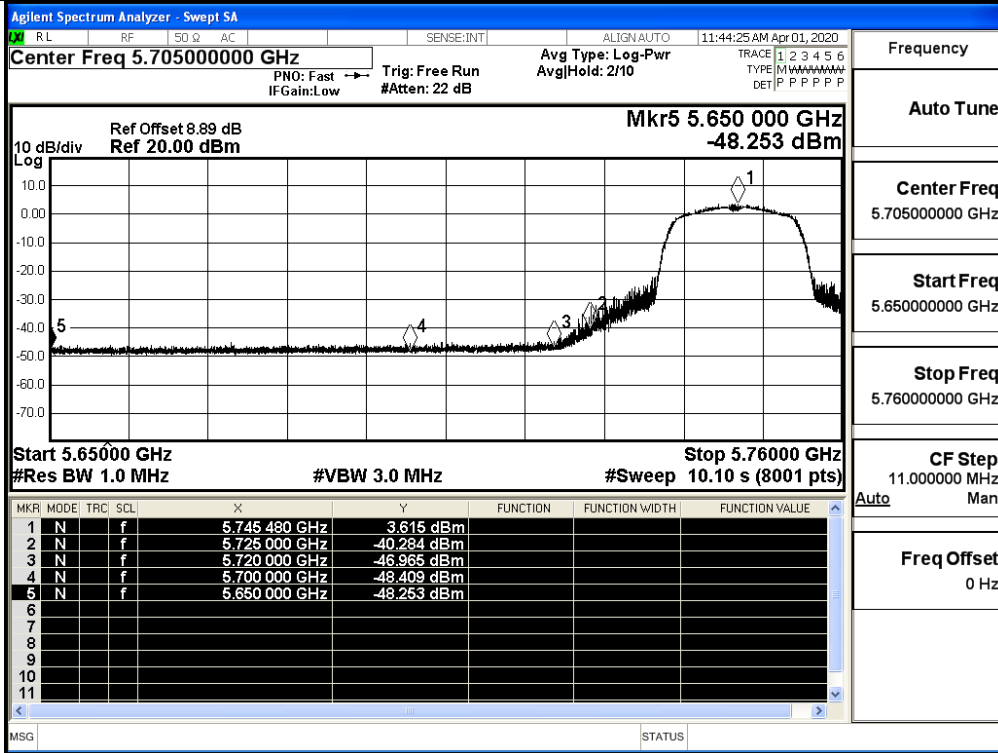
Frequency	
Auto Tune	
Center Freq	5.845000000 GHz
Start Freq	5.765000000 GHz
Stop Freq	5.925000000 GHz
CF Step	16.000000 MHz
Auto	Man
Freq Offset	0 Hz

IEEE 802.11n40 / Channel 159 / 5795MHz / Peak

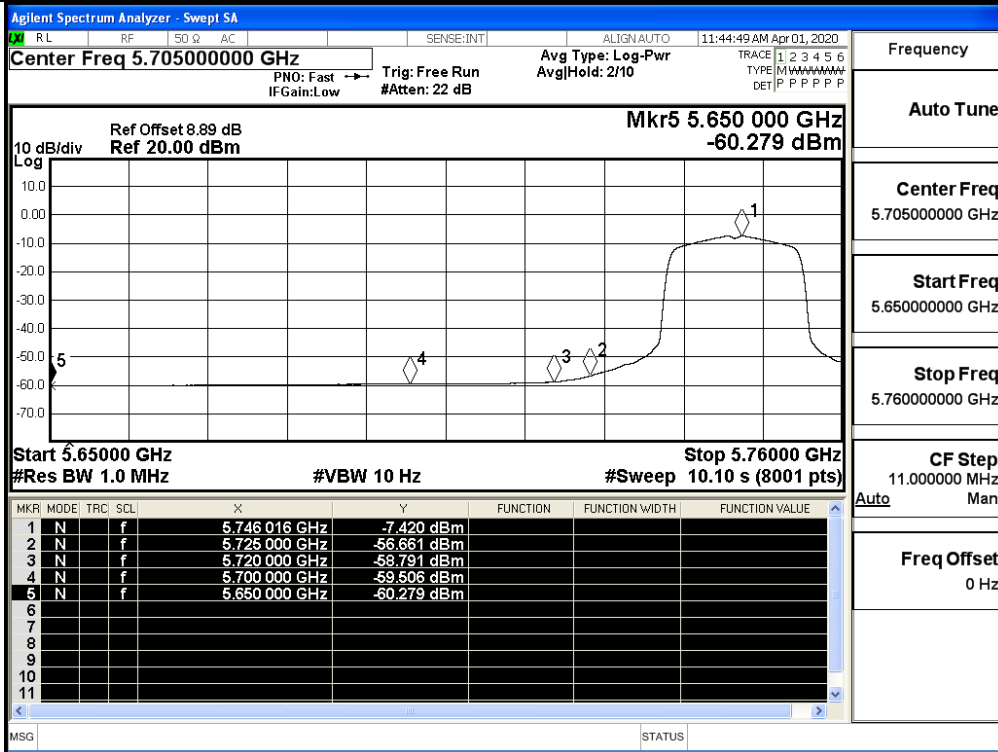


Frequency	
Auto Tune	
Center Freq	5.845000000 GHz
Start Freq	5.765000000 GHz
Stop Freq	5.925000000 GHz
CF Step	16.000000 MHz
Auto	Man
Freq Offset	0 Hz

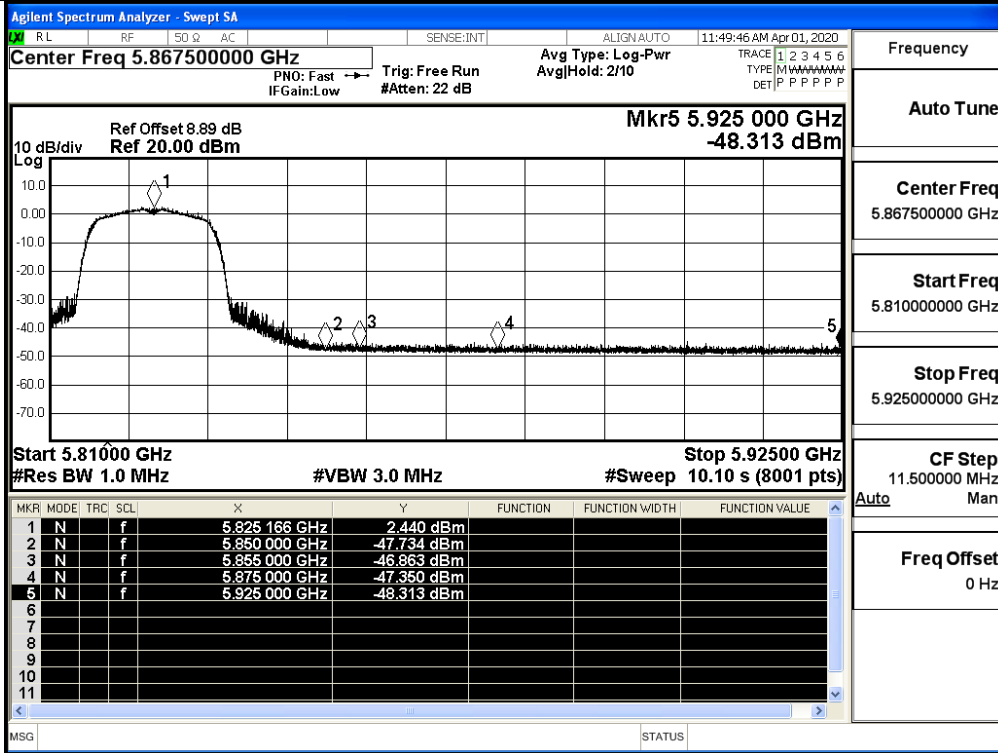
IEEE 802.11n40 / Channel 159 / 5795MHz / Average



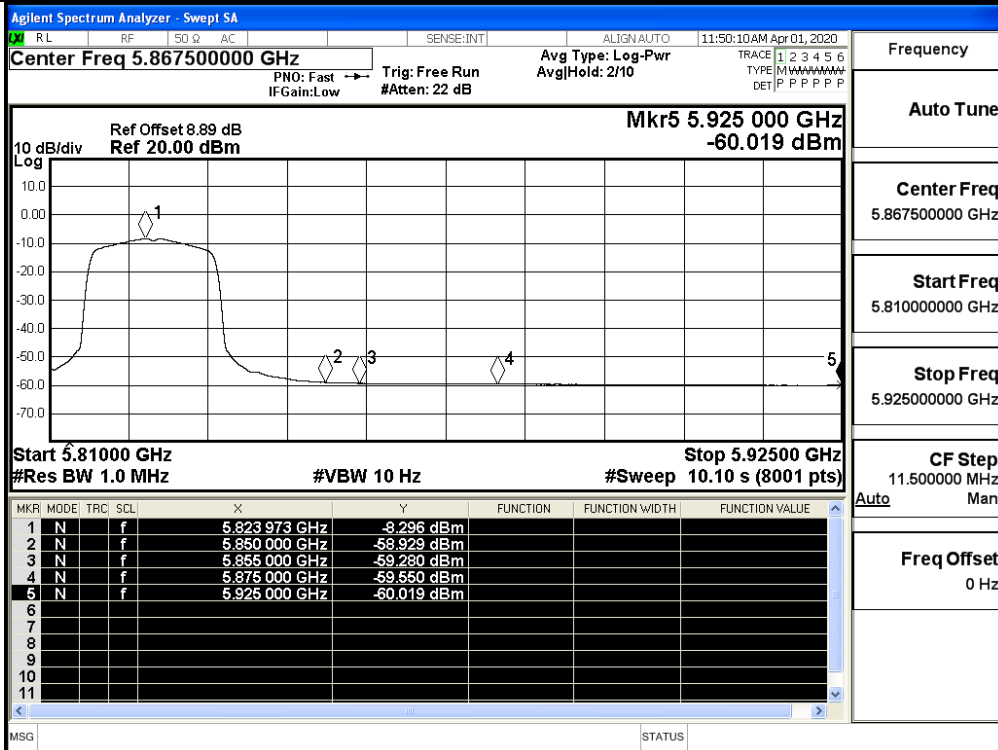
IEEE 802.11ac20 / Channel 149 / 5745MHz / Peak



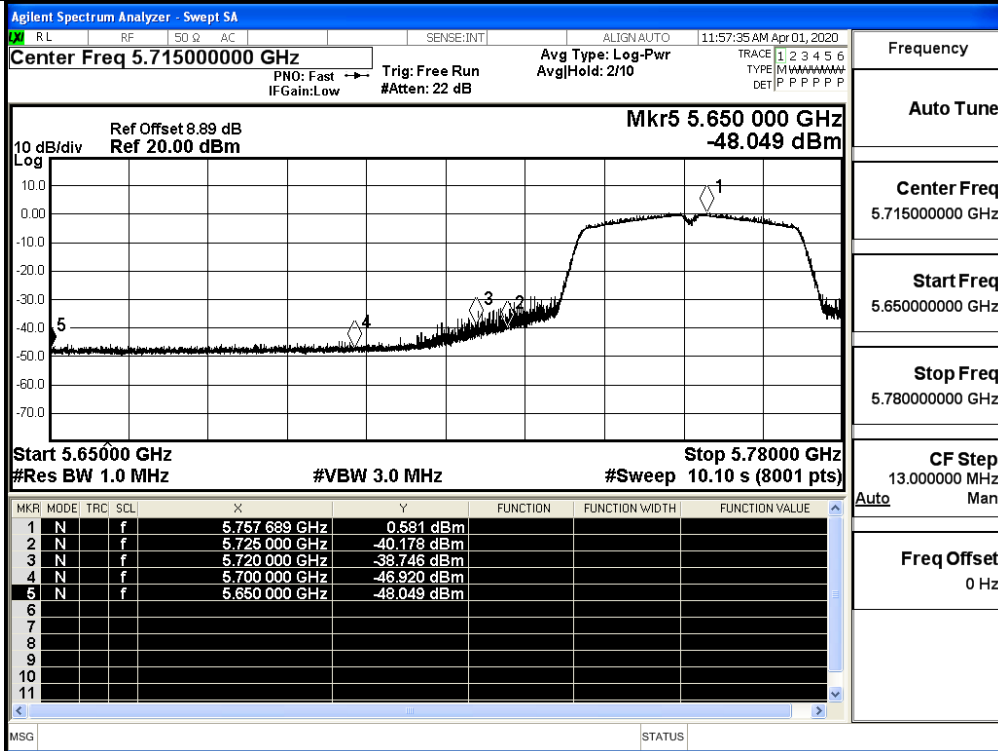
IEEE 802.11ac20 / Channel 149 / 5745MHz / Average



IEEE 802.11ac20 / Channel 165 / 5825MHz / Peak

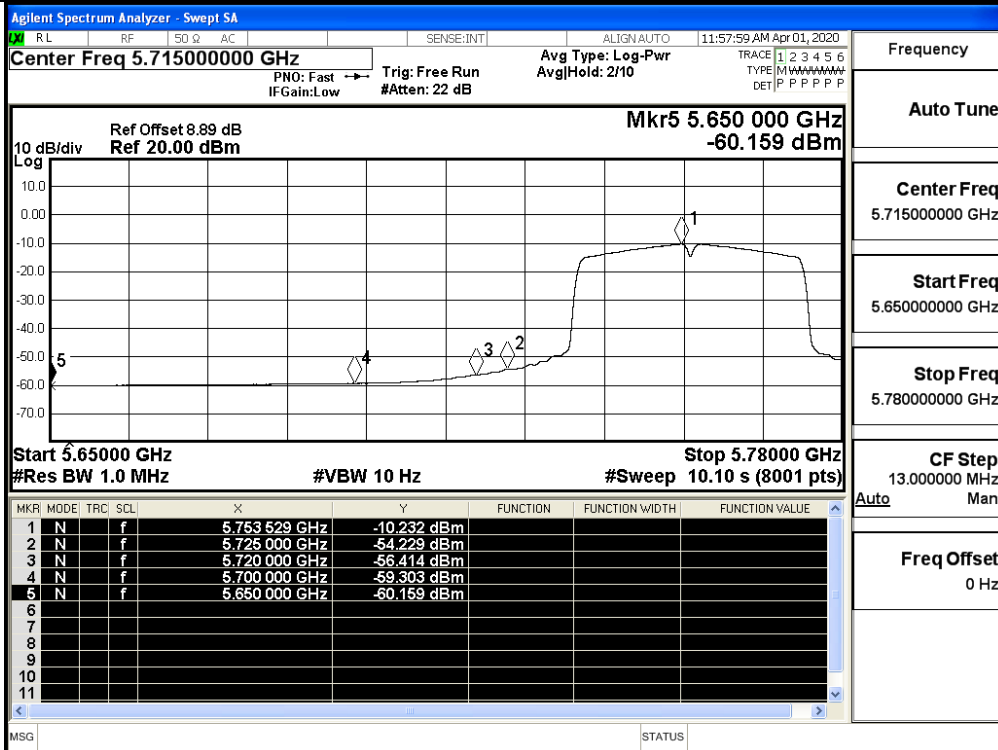


IEEE 802.11ac20 / Channel 165 / 5825MHz / Average



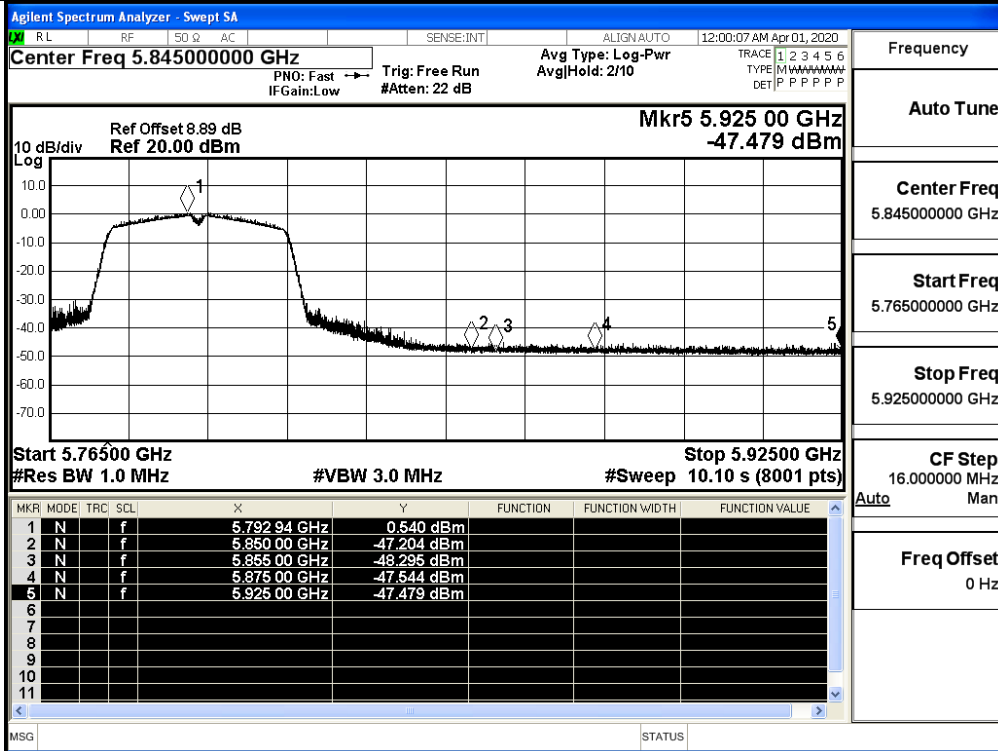
Frequency	
Auto Tune	
Center Freq	5.715000000 GHz
Start Freq	5.650000000 GHz
Stop Freq	5.780000000 GHz
CF Step	13.000000 MHz
Auto	Man
Freq Offset	0 Hz

IEEE 802.11ac40 / Channel 151 / 5755MHz / Peak



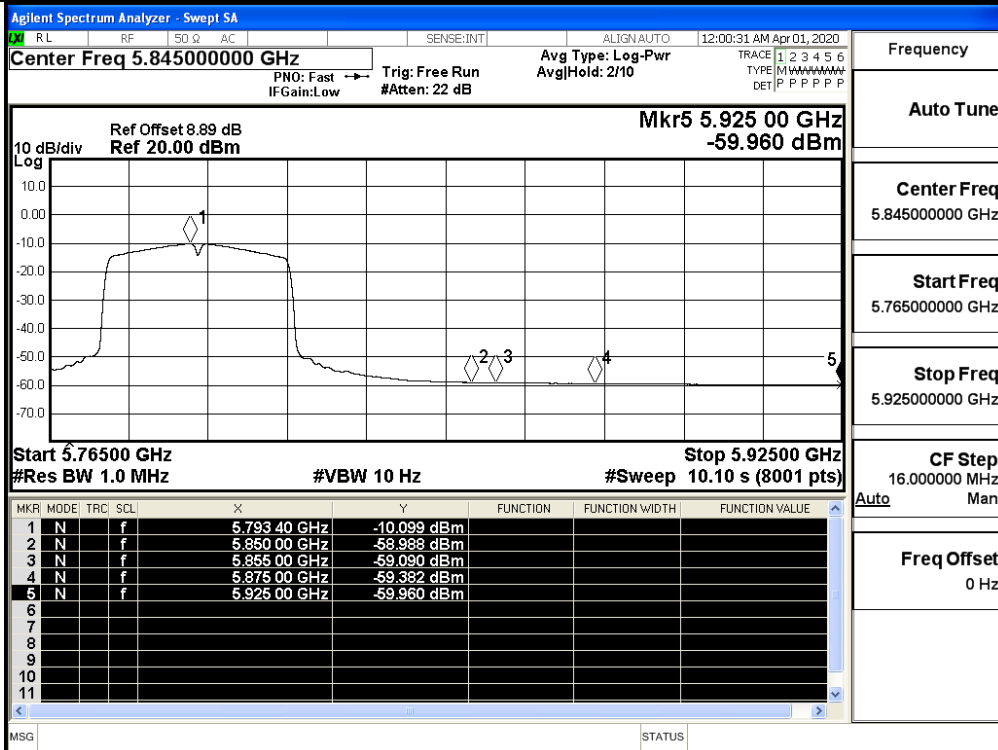
Frequency	
Auto Tune	
Center Freq	5.715000000 GHz
Start Freq	5.650000000 GHz
Stop Freq	5.780000000 GHz
CF Step	13.000000 MHz
Auto	Man
Freq Offset	0 Hz

IEEE 802.11ac40 / Channel 151 / 5755MHz / Average



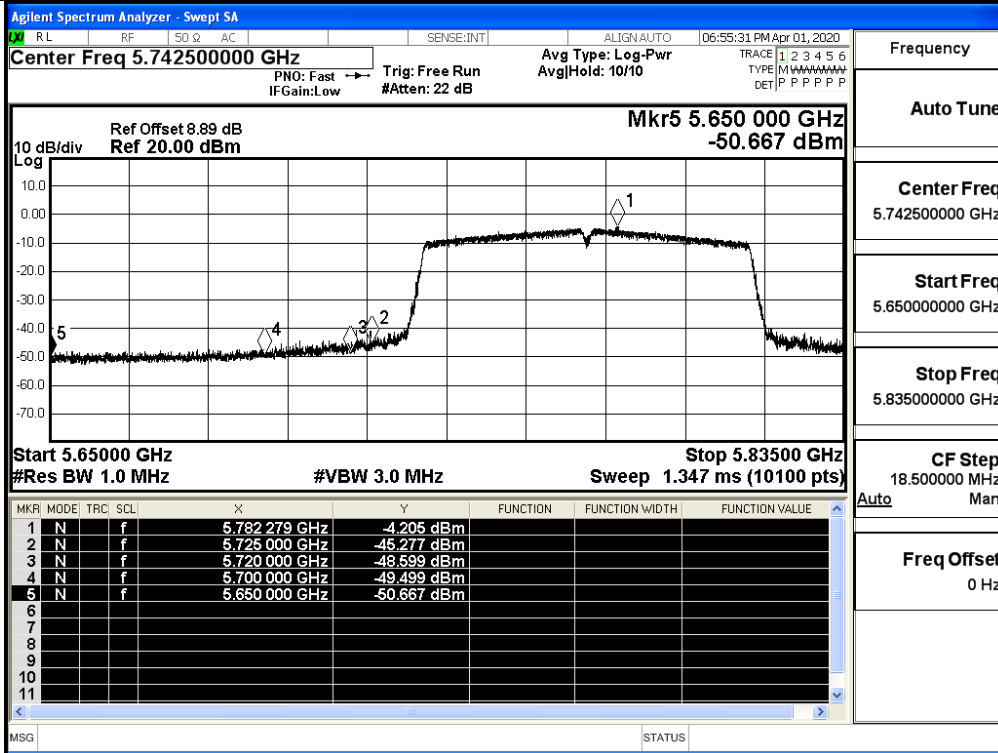
Frequency	
Auto Tune	
Center Freq	5.845000000 GHz
Start Freq	5.765000000 GHz
Stop Freq	5.925000000 GHz
CF Step	16.000000 MHz
Auto	Man
Freq Offset	0 Hz

IEEE 802.11ac40 / Channel 159 / 5795MHz / Peak



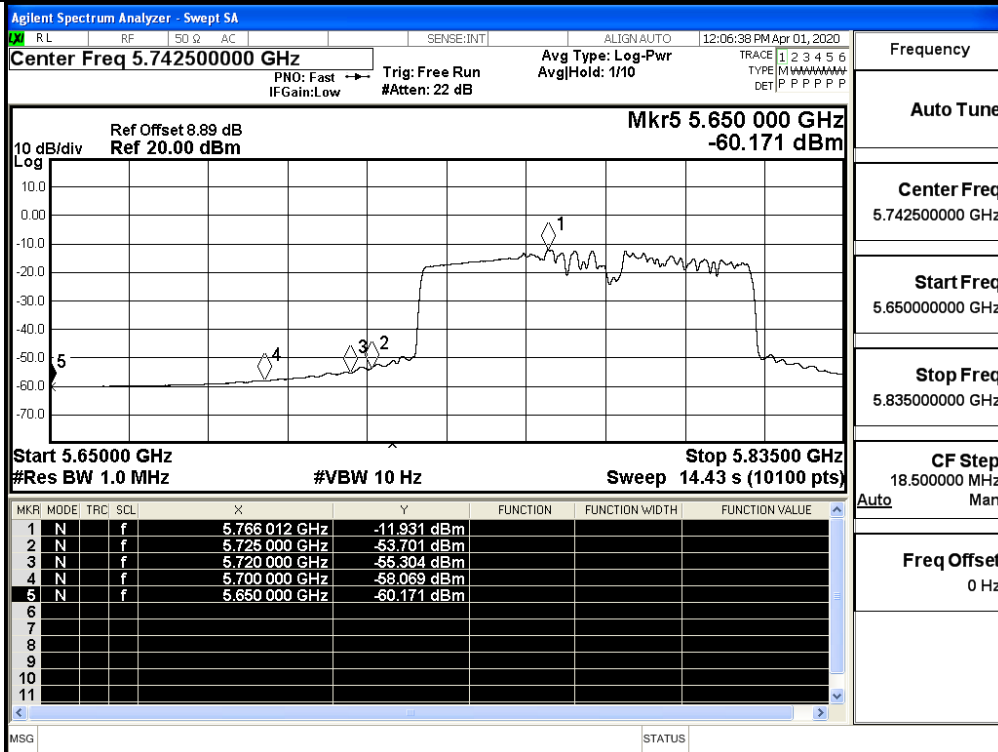
Frequency	
Auto Tune	
Center Freq	5.845000000 GHz
Start Freq	5.765000000 GHz
Stop Freq	5.925000000 GHz
CF Step	16.000000 MHz
Auto	Man
Freq Offset	0 Hz

IEEE 802.11ac40 / Channel 159 / 5795MHz / Average



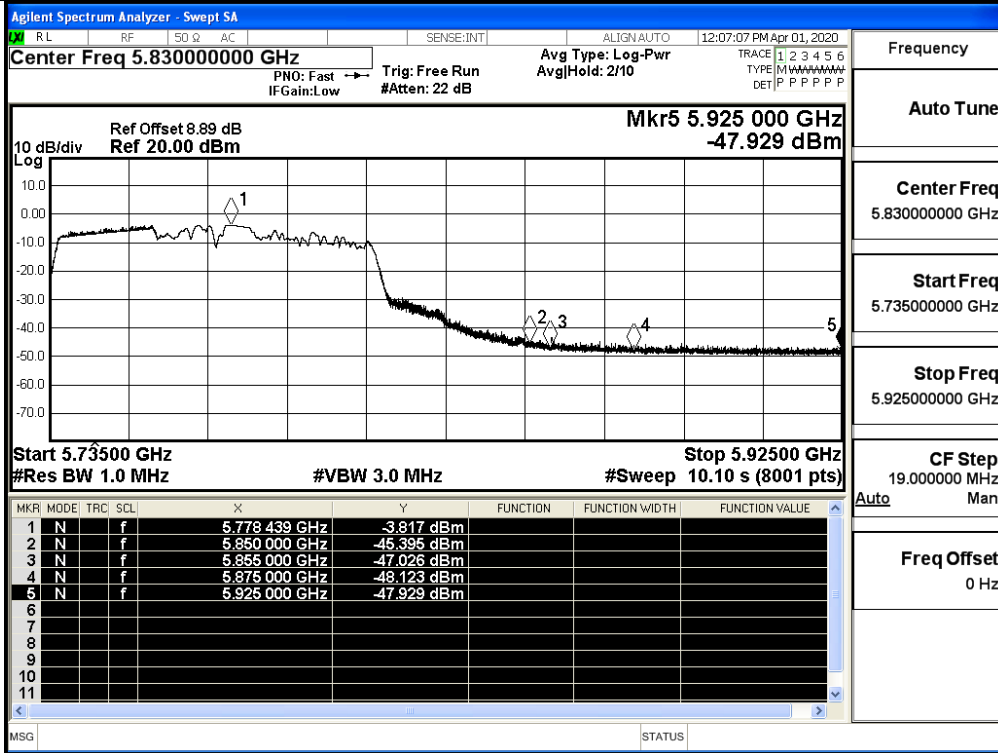
Frequency
Auto Tune
Center Freq 5.742500000 GHz
Start Freq 5.650000000 GHz
Stop Freq 5.835000000 GHz
CF Step 18.500000 MHz
Auto Man
Freq Offset 0 Hz

IEEE 802.11ac80 / Channel 155 / 5775MHz / Peak

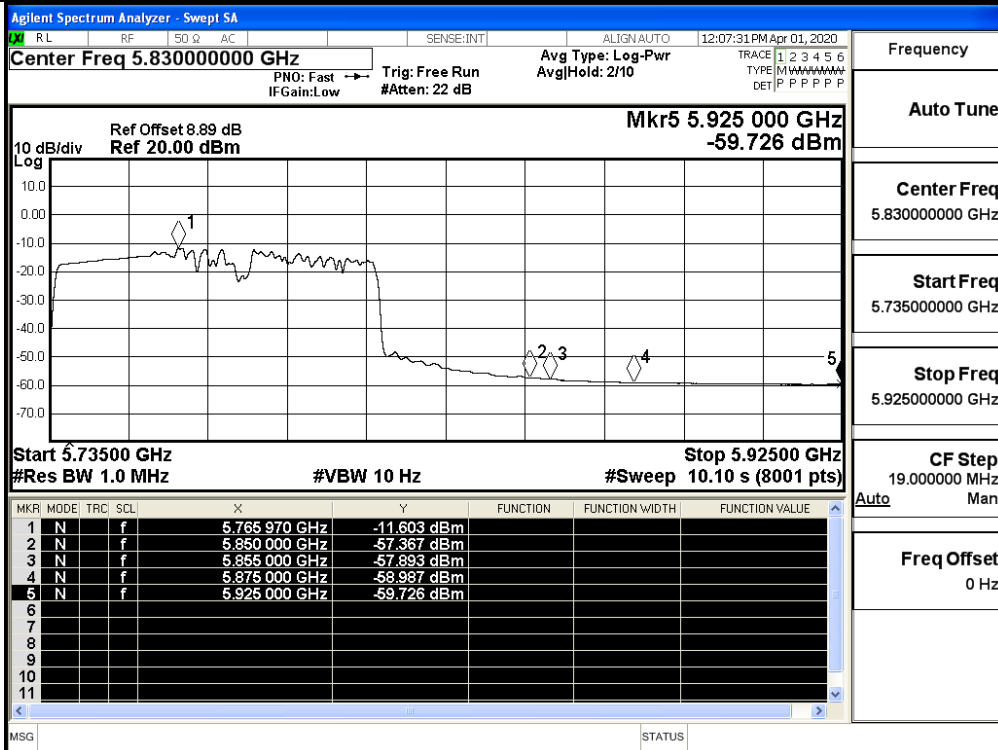


Frequency
Auto Tune
Center Freq 5.742500000 GHz
Start Freq 5.650000000 GHz
Stop Freq 5.835000000 GHz
CF Step 18.500000 MHz
Auto Man
Freq Offset 0 Hz

IEEE 802.11ac80 / Channel 155 / 5775MHz / Average



IEEE 802.11ac80 / Channel 155 / 5775MHz / Peak



IEEE 802.11ac80 / Channel 155 / 5775MHz / Average