Appendix D

RF Test Data for 5.2G WLAN (Conducted Measurement)

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

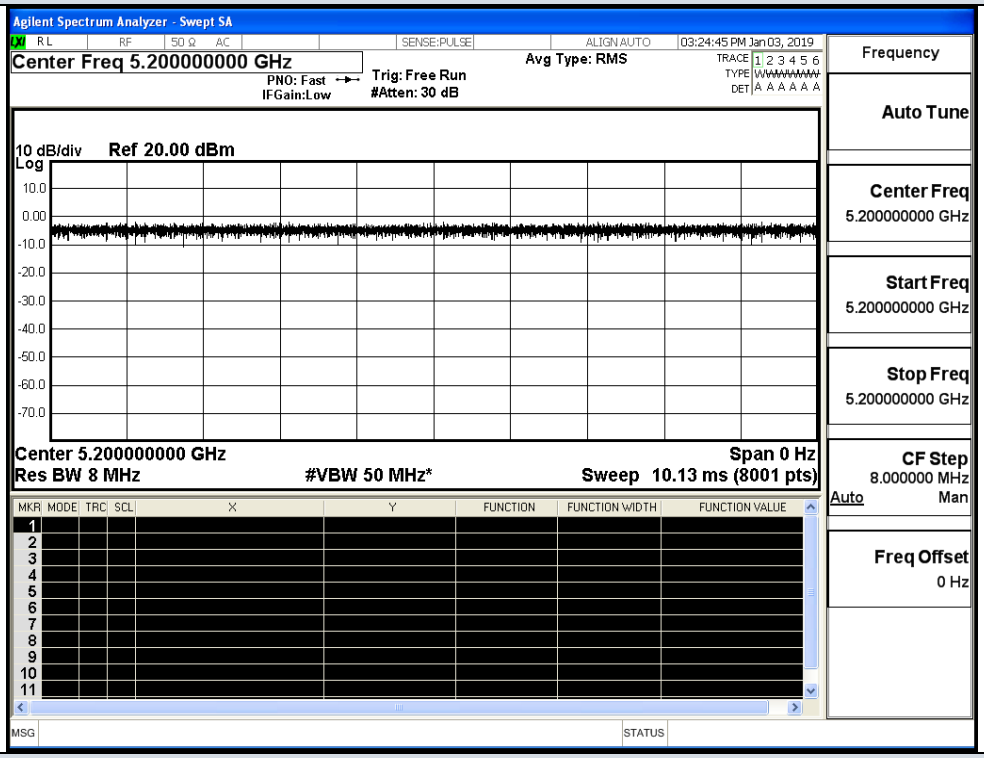
Environmental Conditions

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

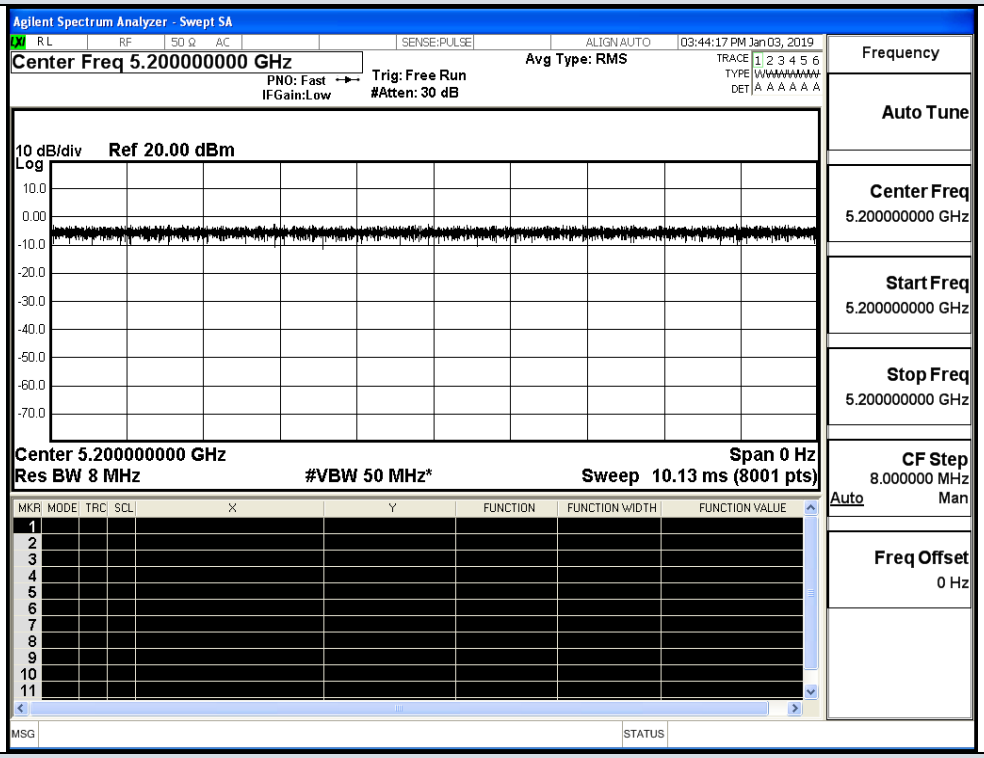
D.1 Duty Cycle

Test Mode	Test Frequency (MHz)	Duty Cycle (%)	10log(1/x) Factor (dB)	1/B Minimum VBW(KHz)
11A	5200	100	0.00	0.01
11N20 SISO	5200	100	0.00	0.01
11N40 SISO	5190	100	0.00	0.01
11AC20 SISO	5200	100	0.00	0.01
11AC40 SISO	5190	100	0.00	0.01
11AC80 SISO	5210	100	0.00	0.01

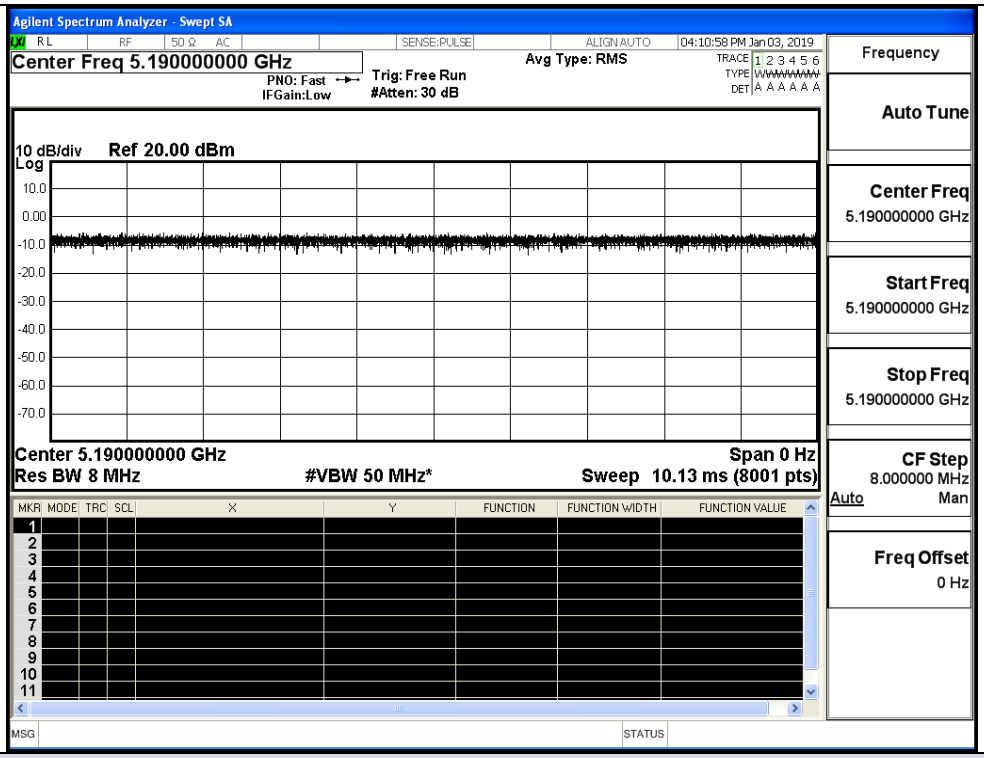
On Time and Duty Cycle



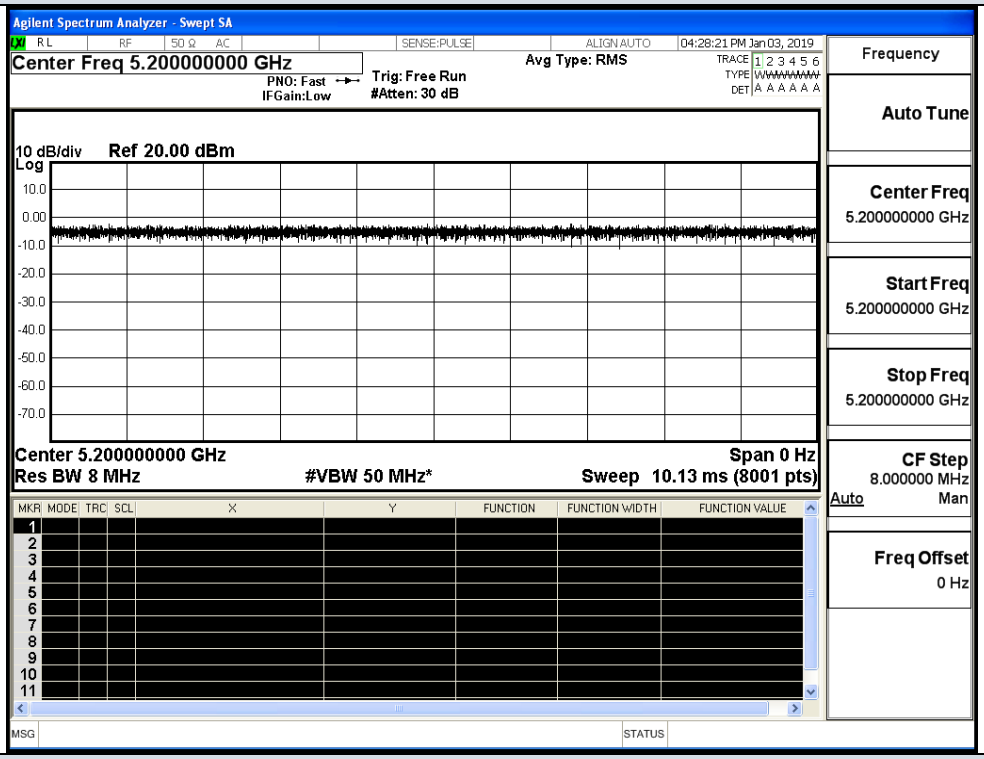
IEEE 802.11a



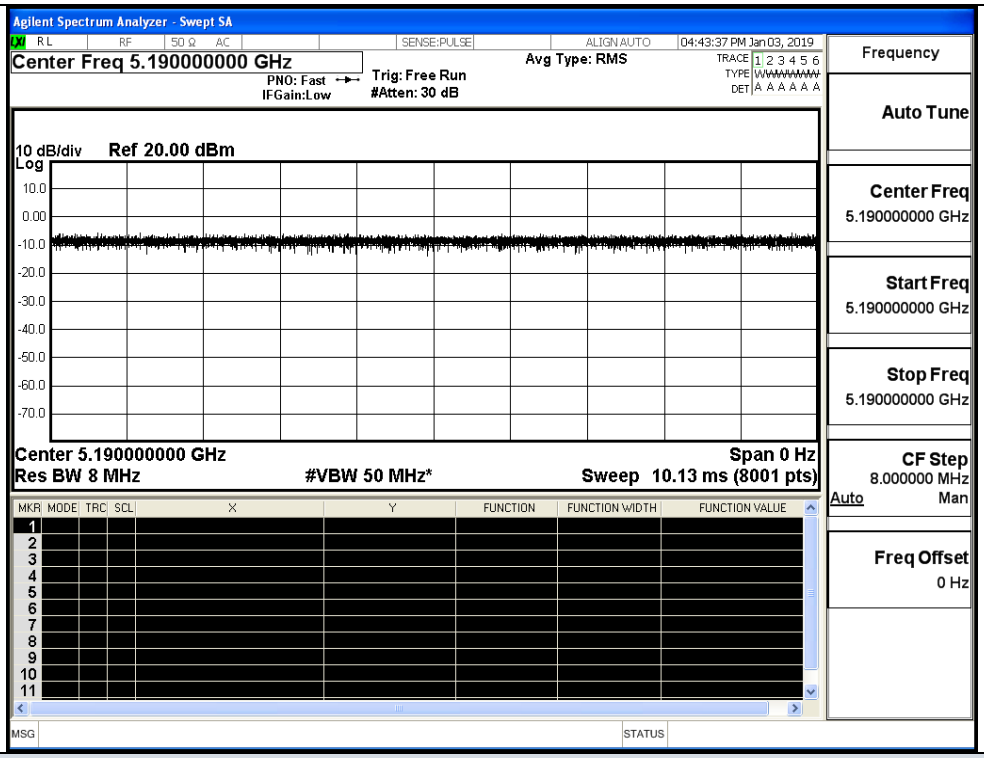
IEEE 802.11n HT20



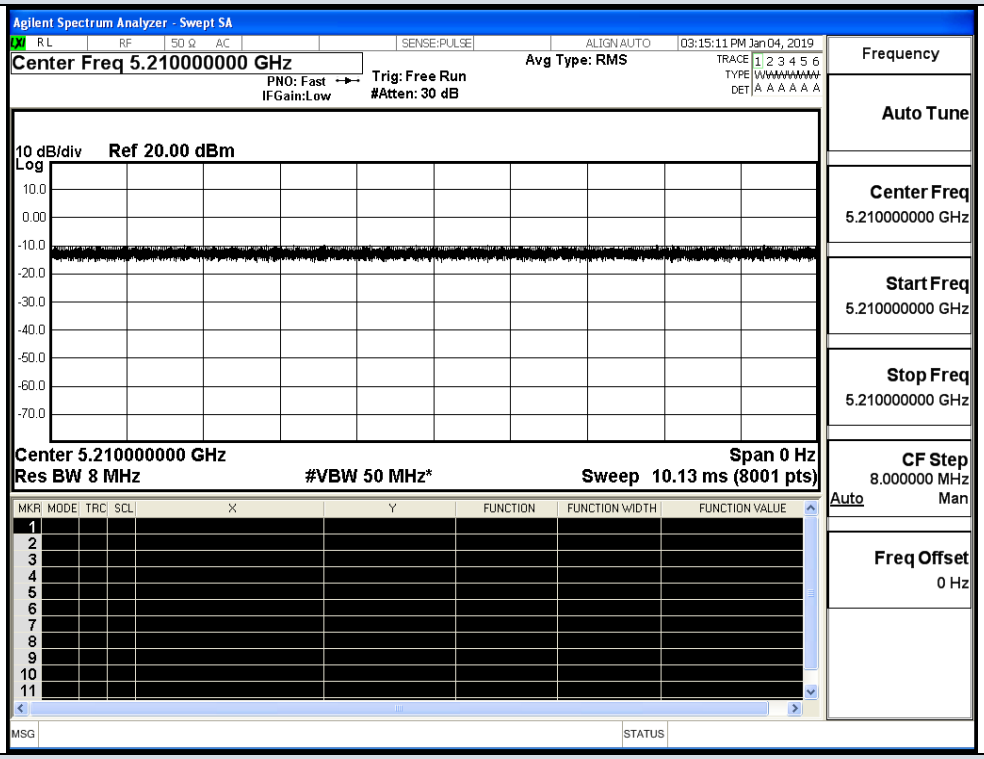
IEEE 802.11n HT40



IEEE 802.11ac VHT20



IEEE 802.11ac VHT40



IEEE 802.11ac VHT80

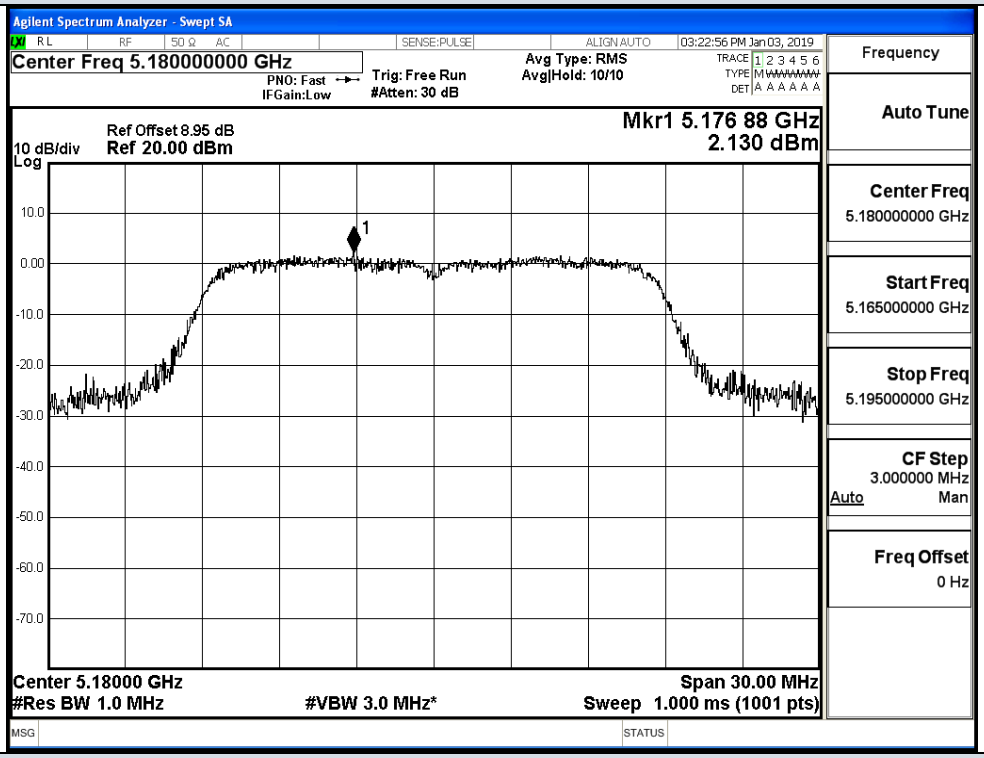
D.2 Maximum Conduct Output Power

Test Mode	Channel	Frequency (MHz)	Average Conducted Power (dBm)	Duty Cycle Factor(dB)	Report Conducted Power(dBm)	Limit (dBm)
11A	36	5180	12.59	0	12.59	24
	40	5200	12.26	0	12.26	
	48	5240	12.55	0	12.55	
11N20 SISO	36	5180	12.32	0	12.32	24
	40	5200	11.54	0	11.54	
	48	5240	12.05	0	12.05	
11N40 SISO	38	5190	11.85	0	11.85	24
	46	5230	12.62	0	12.62	
11AC20 SISO	36	5180	12.44	0	12.44	24
	40	5200	11.89	0	11.89	
	48	5240	11.65	0	11.65	
11AC40 SISO	38	5190	11.48	0	11.48	24
	46	5230	12.25	0	12.25	
11AC80 SISO	42	5210	10.65	0	10.65	24

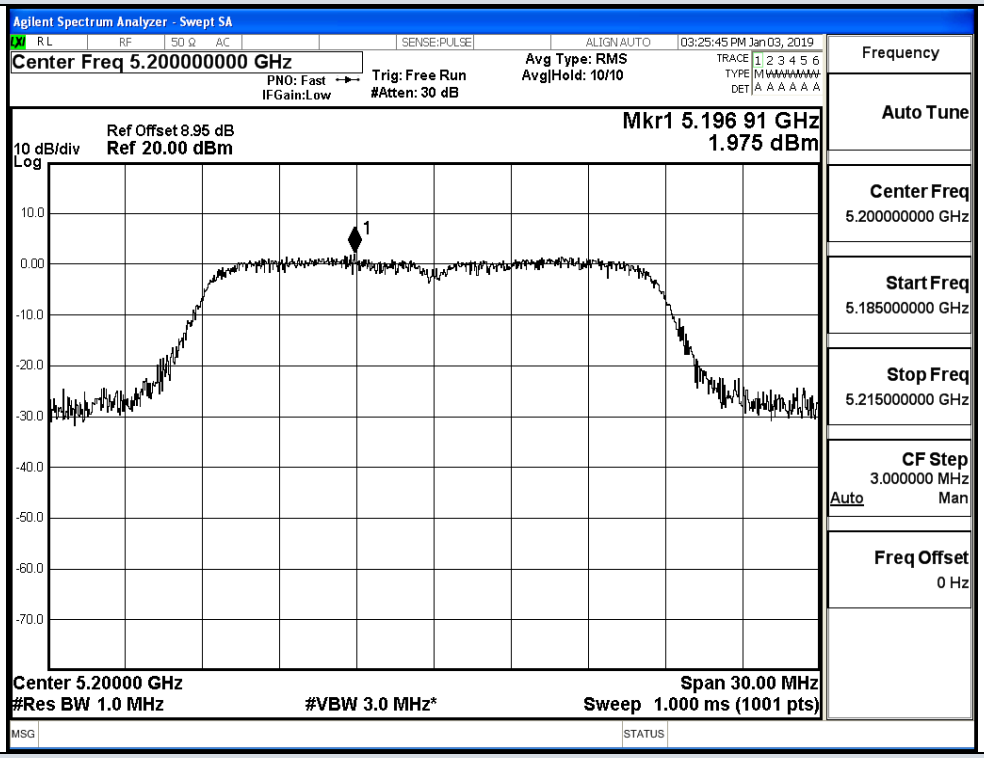
D.3 Power Spectral Density

Test Mode	Channel	Frequency (MHz)	Power Density (dBm/MHz)	Duty Cycle Factor(dB)	Report Power Density (dBm/MHz)	Limit (dBm/MHz)
11A	36	5180	2.130	0	2.130	11
	40	5200	1.975	0	1.975	
	48	5240	1.084	0	1.084	
11N20 SISO	36	5180	1.274	0	1.274	11
	40	5200	1.236	0	1.236	
	48	5240	1.285	0	1.285	
11N40 SISO	38	5190	-2.056	0	-2.056	11
	46	5230	-0.446	0	-0.446	
11AC20 SISO	36	5180	1.378	0	1.378	11
	40	5200	1.180	0	1.180	
	48	5240	0.973	0	0.973	
11AC40 SISO	38	5190	-2.045	0	-2.045	11
	46	5230	-0.710	0	-0.710	
11AC80 SISO	42	5210	-2.883	0	-2.883	

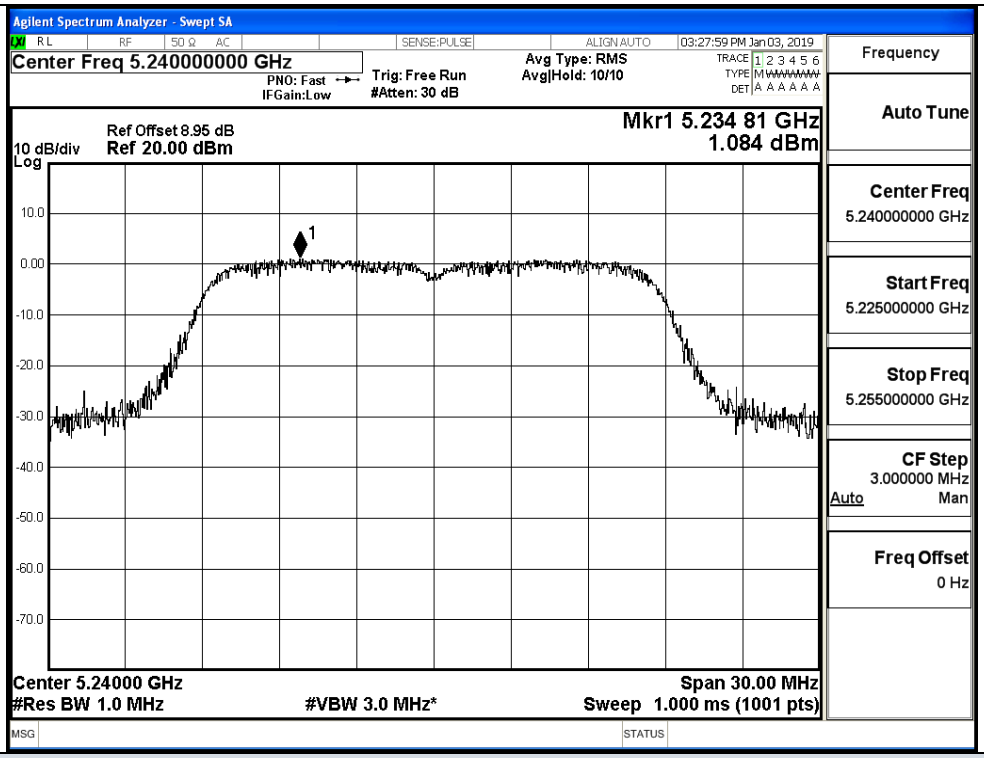
Power Spectral Density



IEEE 802.11a / Channel 36 / 5180 MHz

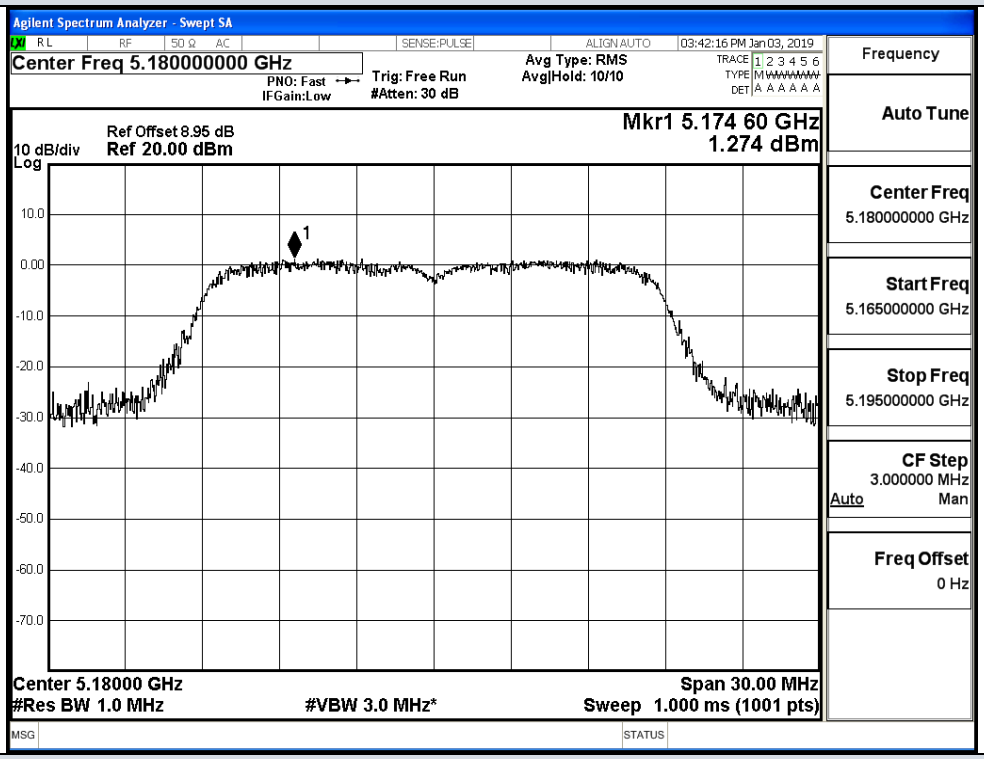


IEEE 802.11a / Channel 40 / 5200 MHz

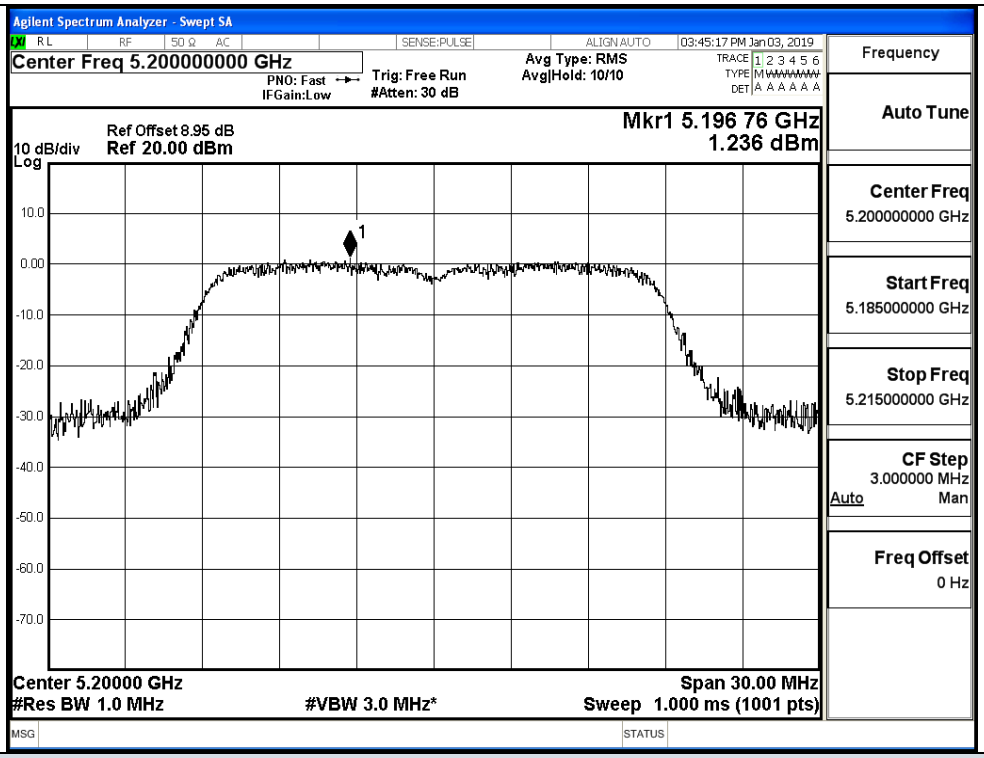


IEEE 802.11a / Channel 48 / 5240 MHz

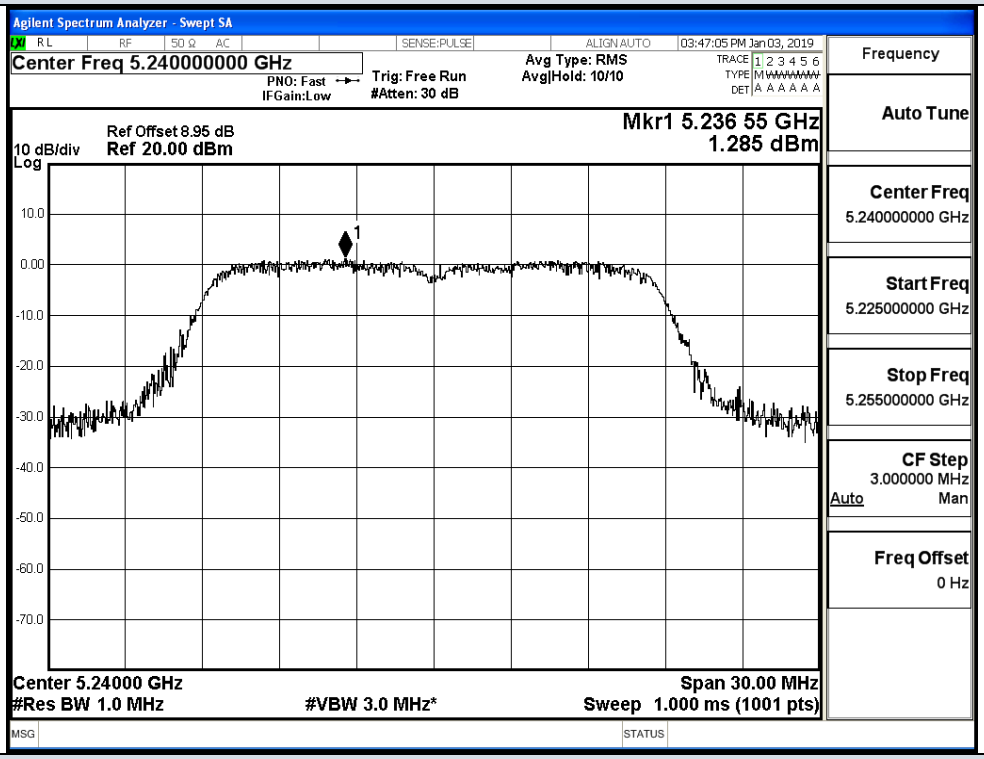
Power Spectral Density



IEEE 802.11n HT20 / Channel 36 / 518 0MHz

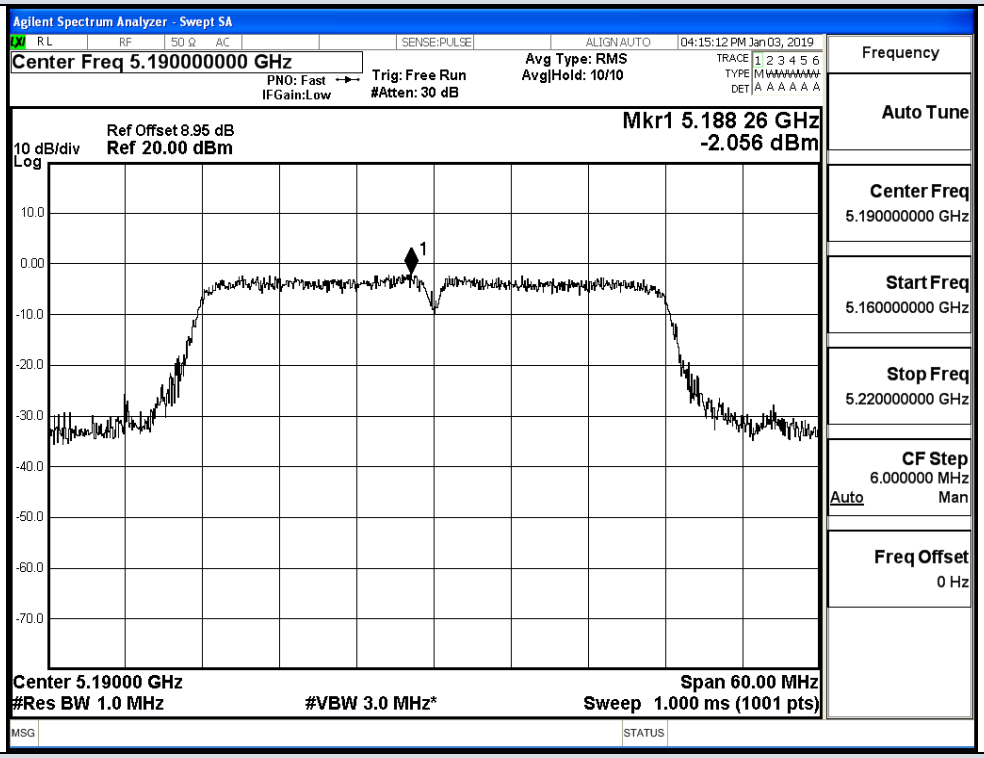


IEEE 802.11n HT 20 / Channel 40 / 5200 MHz

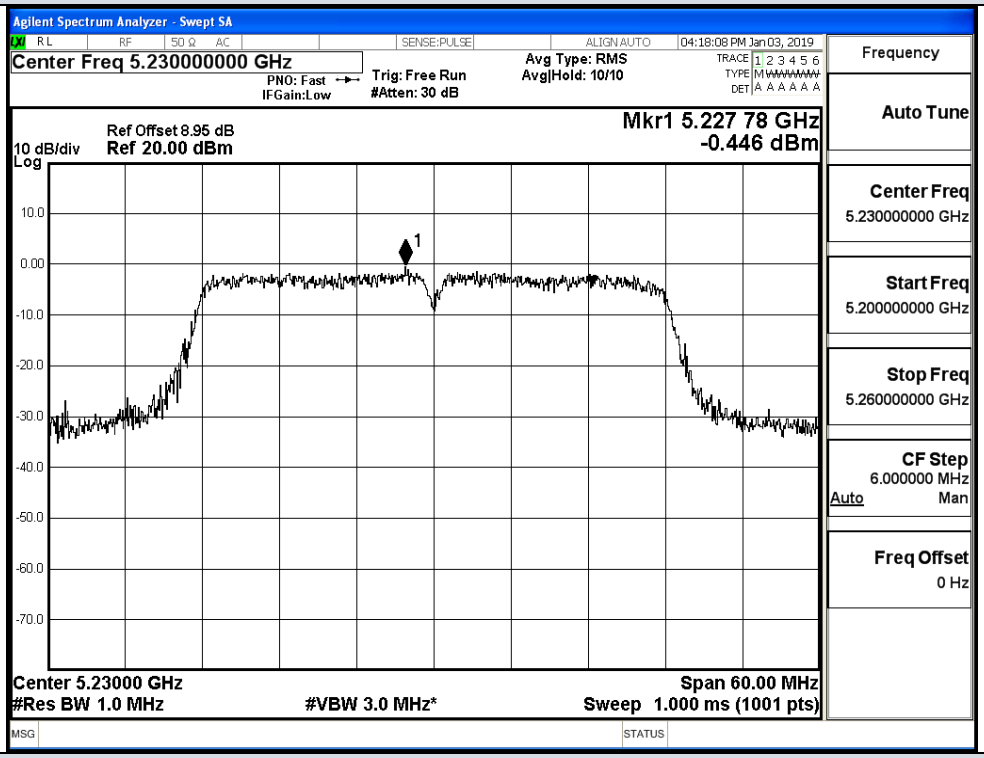


IEEE 802.11n HT20 / Channel 48 / 5240 MHz

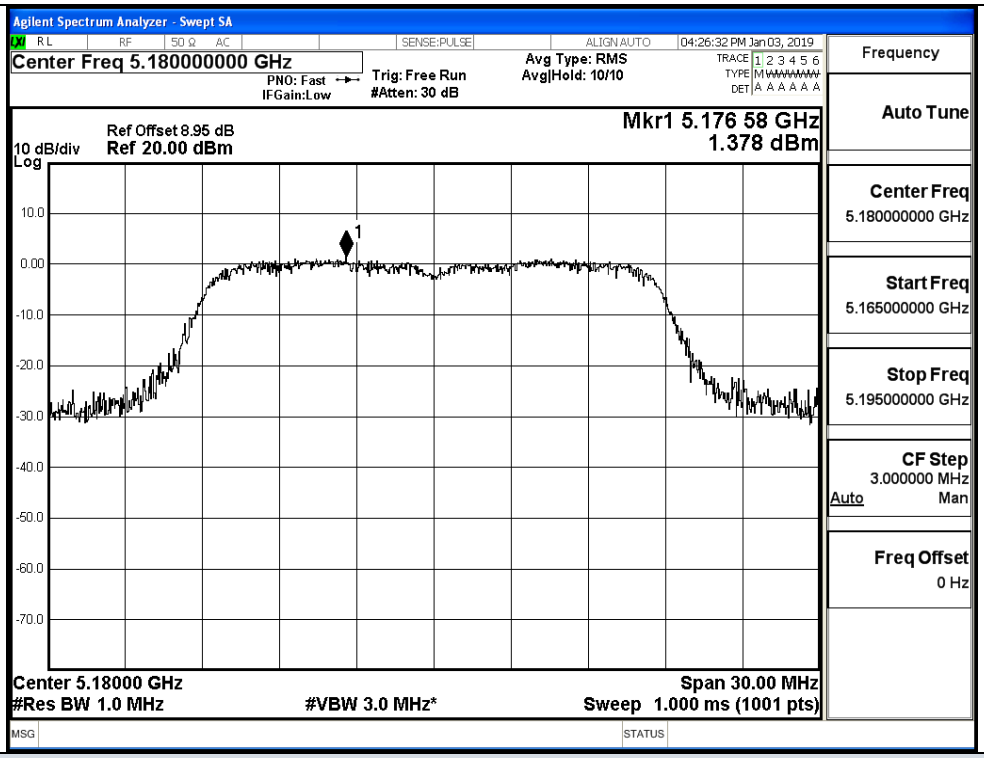
Power Spectral Density



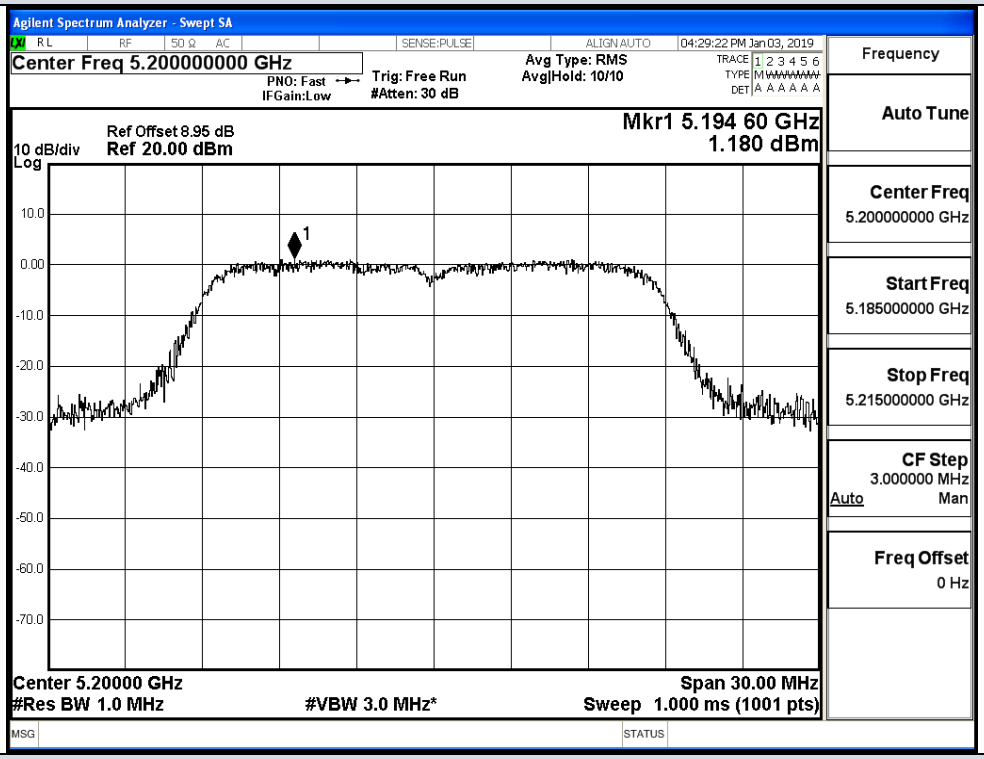
IEEE 802.11n HT40 / Channel 38 / 5190 MHz



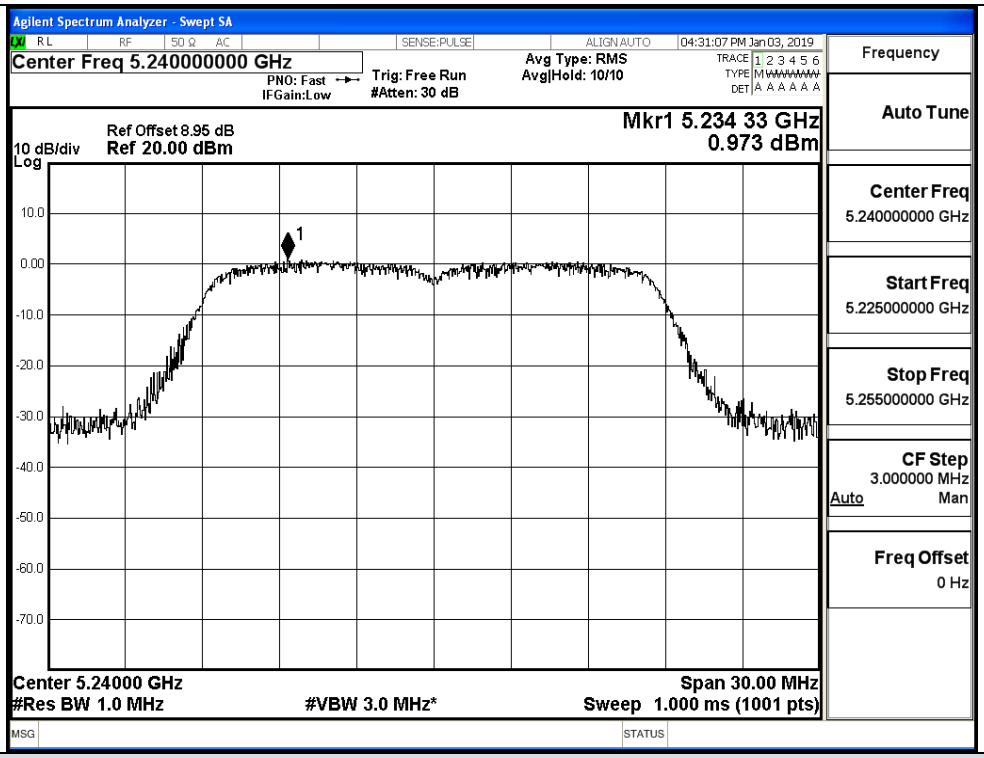
IEEE 802.11n HT40 / Channel 46 / 5230 MHz



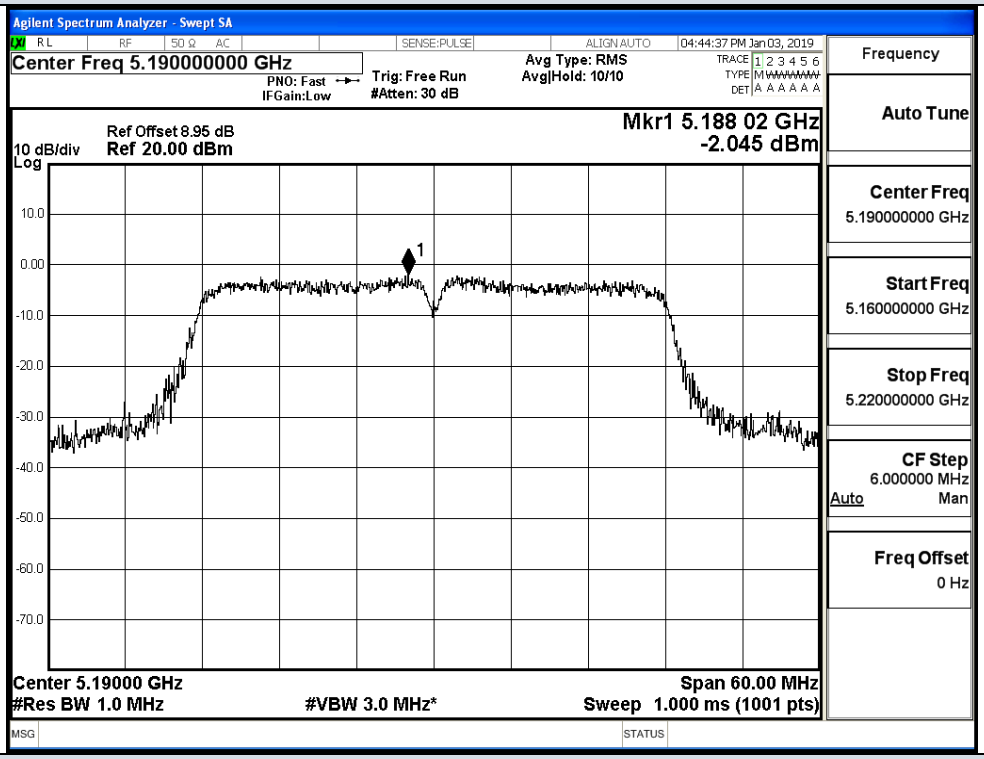
IEEE 802.11ac VHT20 / Channel 36 / 5180 MHz



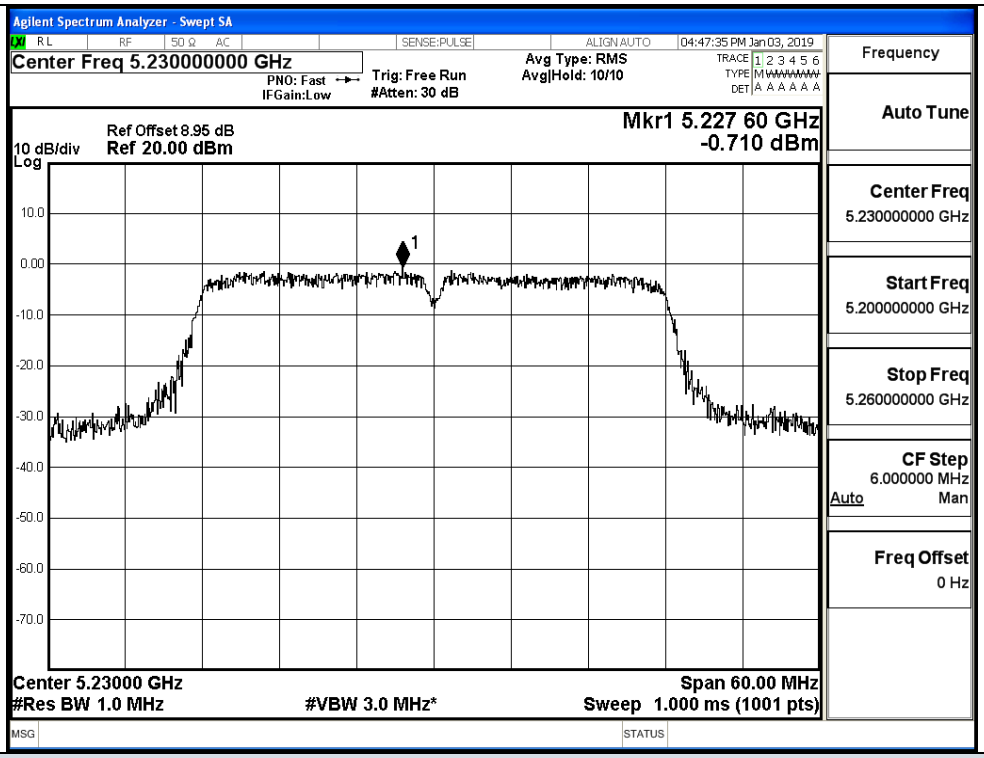
IEEE 802.11ac VHT20 / Channel 40 / 5200MHz



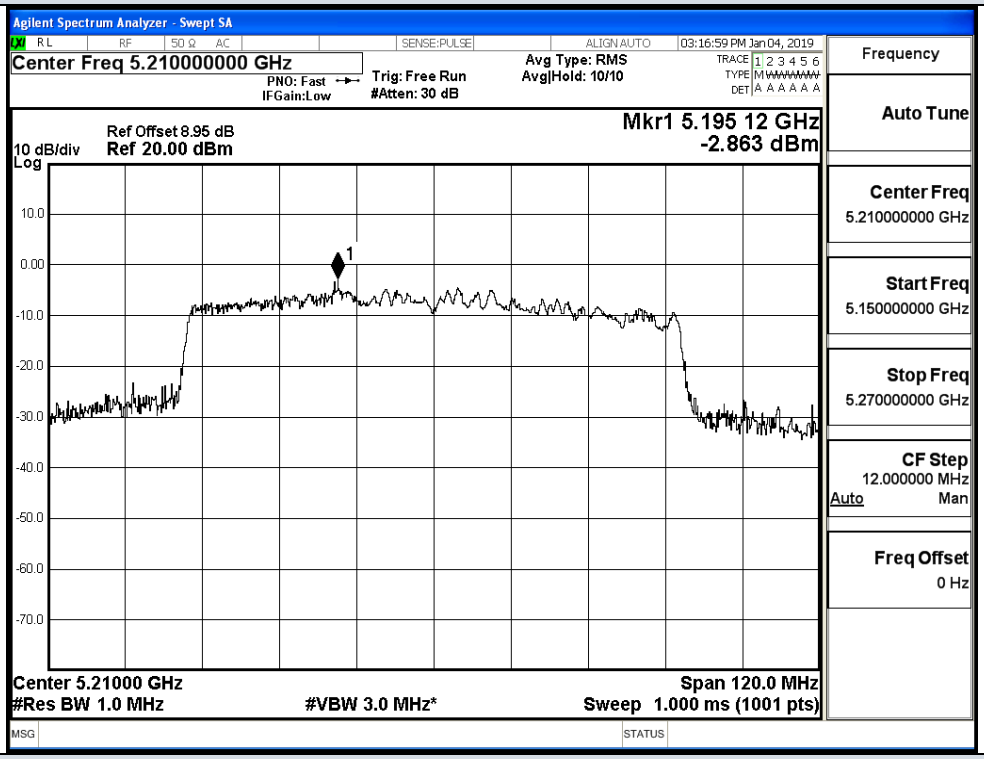
IEEE 802.11ac VHT20 / Channel 48 / 5240MHz



IEEE 802.11ac VHT40 / Channel 38 / 5190MHz



IEEE 802.11ac VHT40 / Channel 46 / 5230 MHz

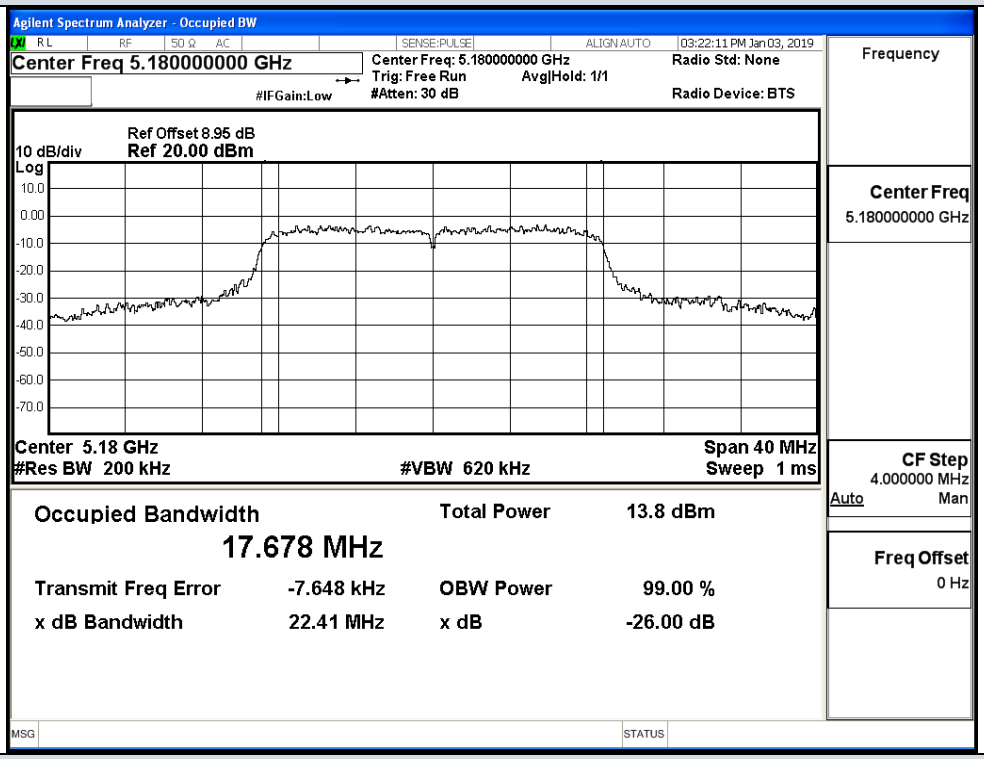


IEEE 802.11ac VHT80 / Channel 42 / 5210 MHz

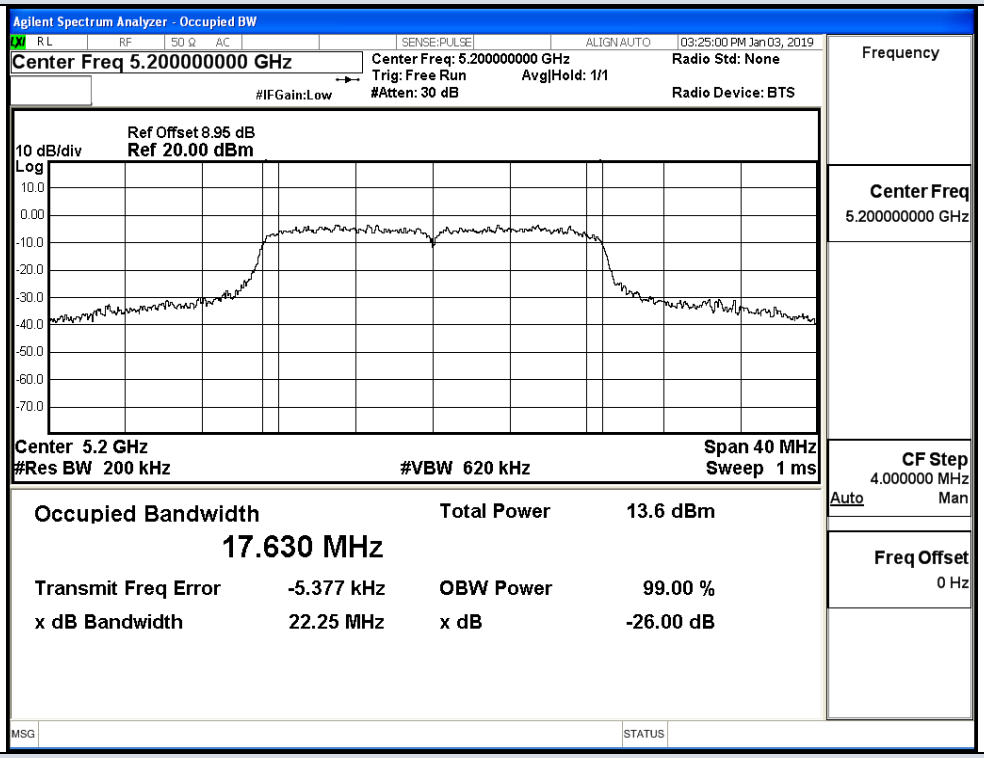
D.4 Emission Bandwidth

Test Mode	Channel	Frequency (MHz)	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)
11A	36	5180	17.678	22.410	No Limit
	40	5200	17.630	22.250	
	48	5240	17.578	21.500	
11N20 SISO	36	5180	17.645	21.770	No Limit
	40	5200	17.629	21.570	
	48	5240	17.585	21.180	
11N40 SISO	38	5190	36.236	46.380	No Limit
	46	5230	36.275	43.240	
11AC20 SISO	36	5180	17.648	23.700	No Limit
	40	5200	17.645	21.560	
	48	5240	17.600	21.410	
11AC40 SISO	38	5190	36.237	42.420	No Limit
	46	5230	36.229	46.200	
11AC80 SISO	42	5210	75.990	123.800	No Limit

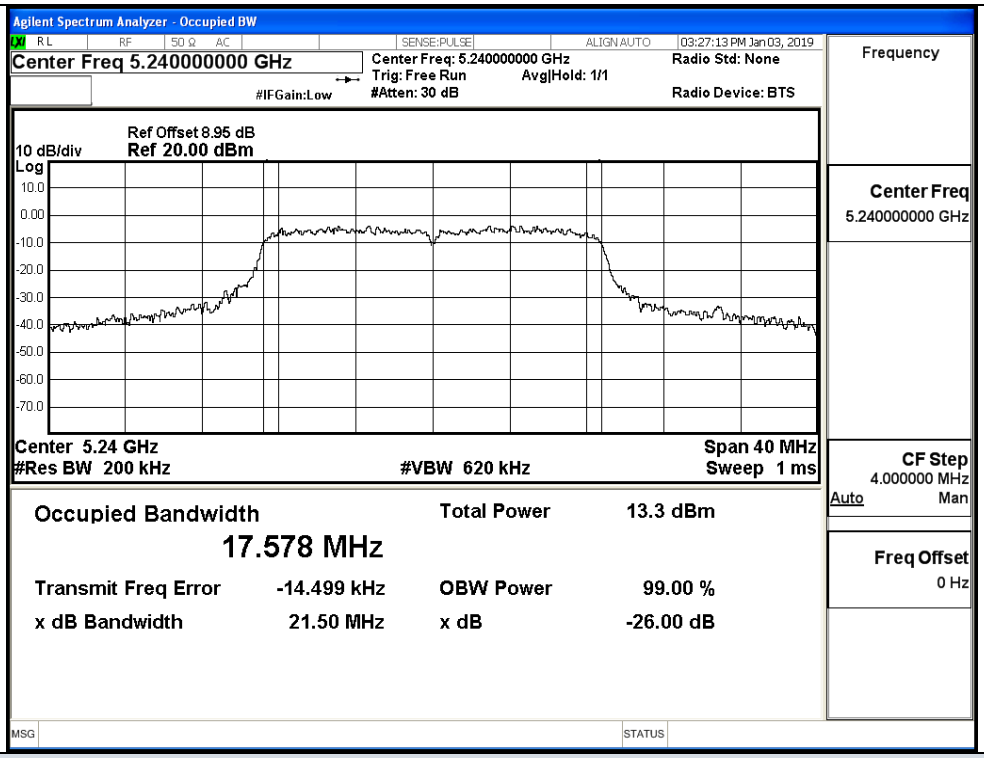
99% and 26dB Bandwidth



IEEE 802.11a / Channel 36 / 5180 MHz

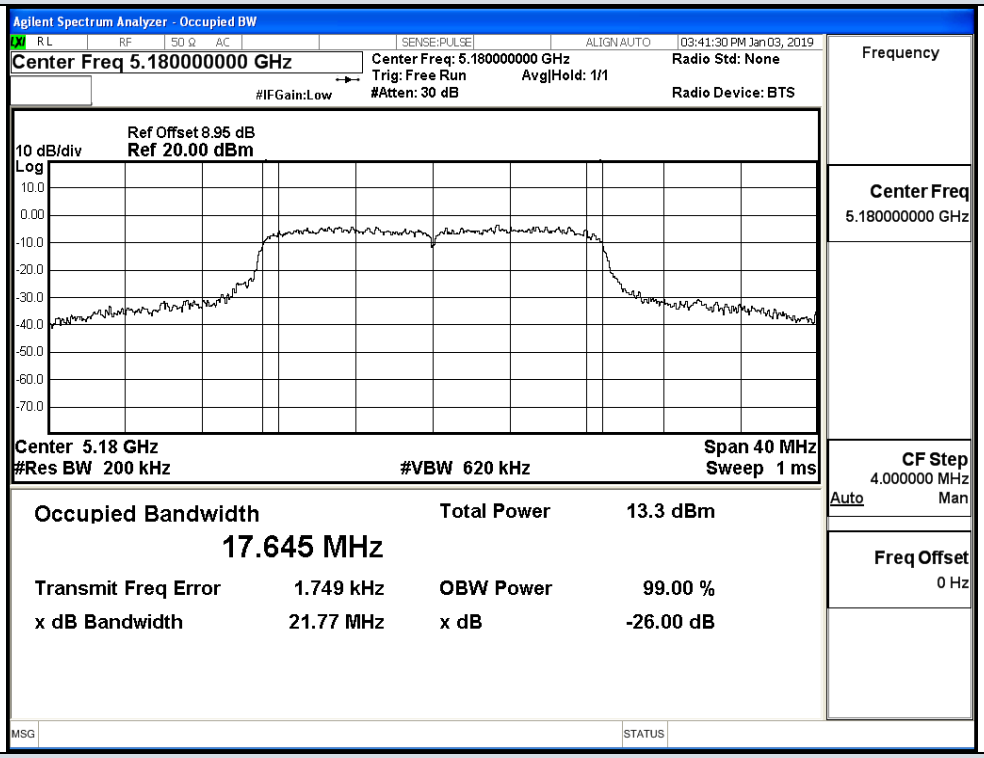


IEEE 802.11a / Channel 40 / 5200 MHz

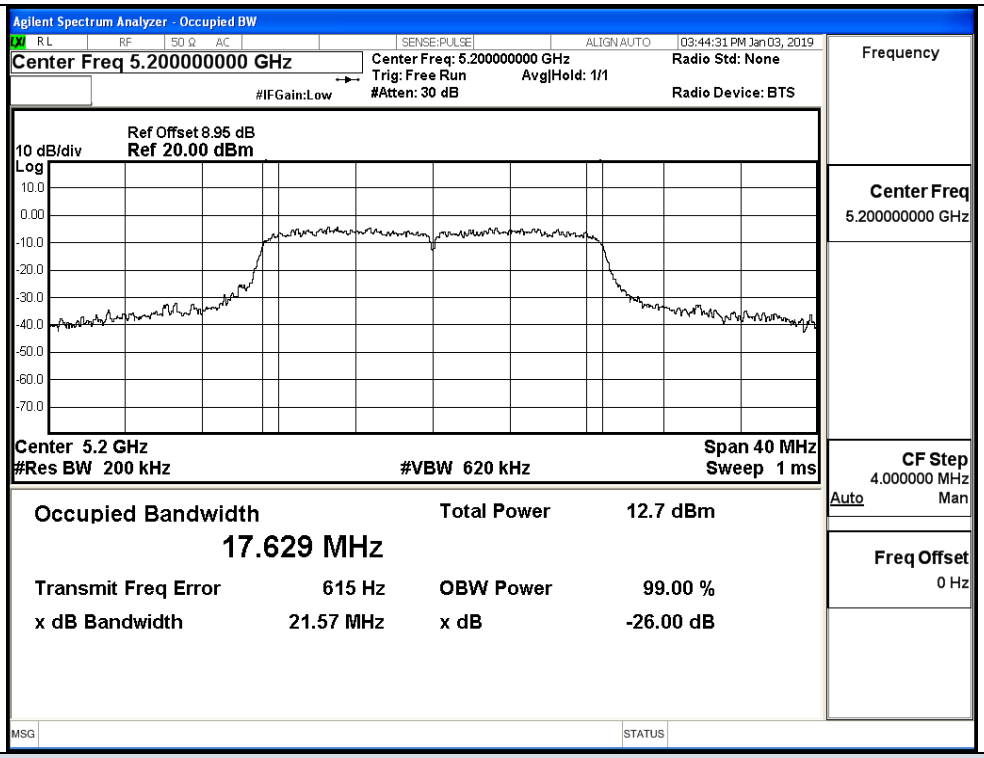


IEEE 802.11a / Channel 48 / 5240 MHz

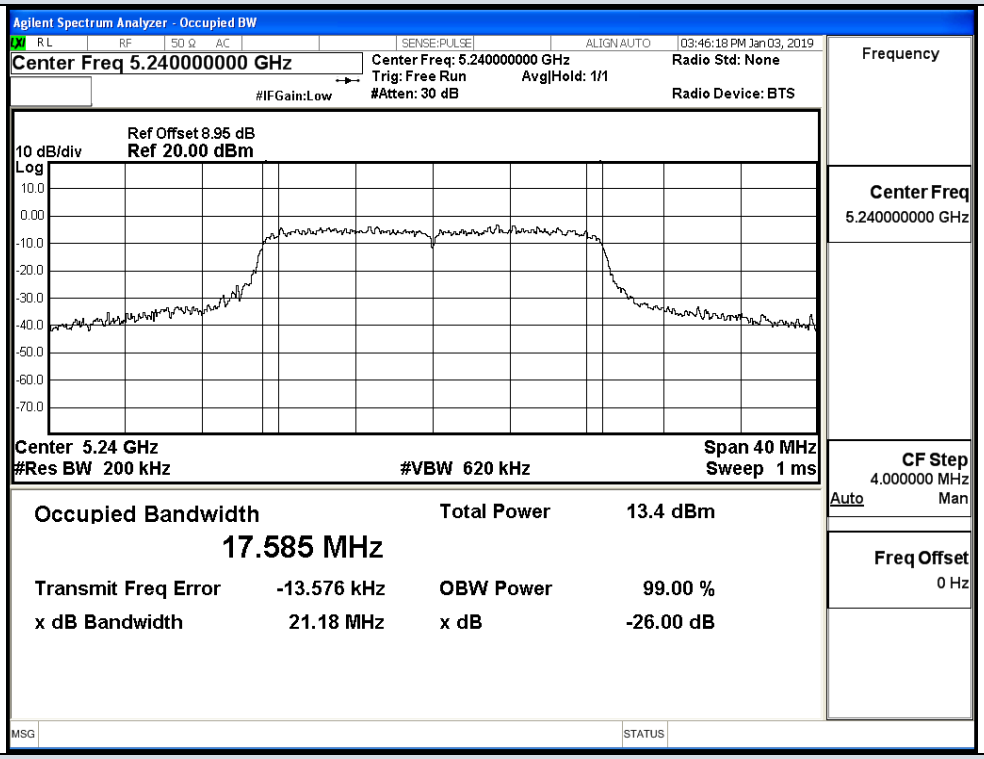
99% and 26dB Bandwidth



IEEE 802.11n HT20 / Channel 36 / 5180 MHz

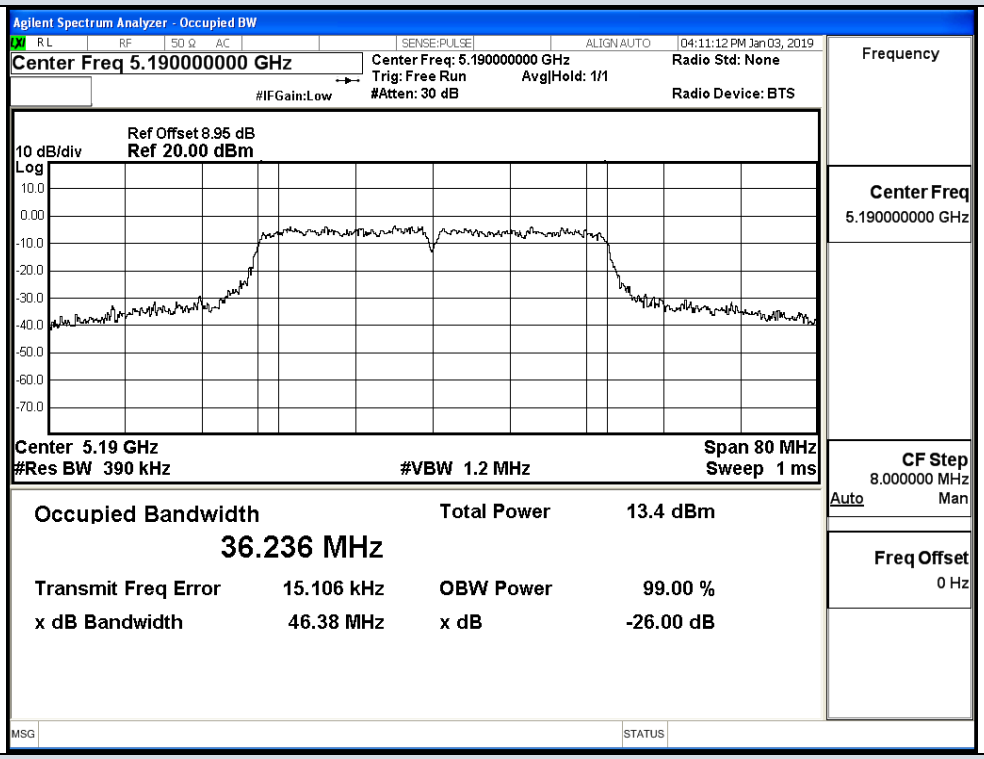


IEEE 802.11n HT20 / Channel 40 / 5200 MHz

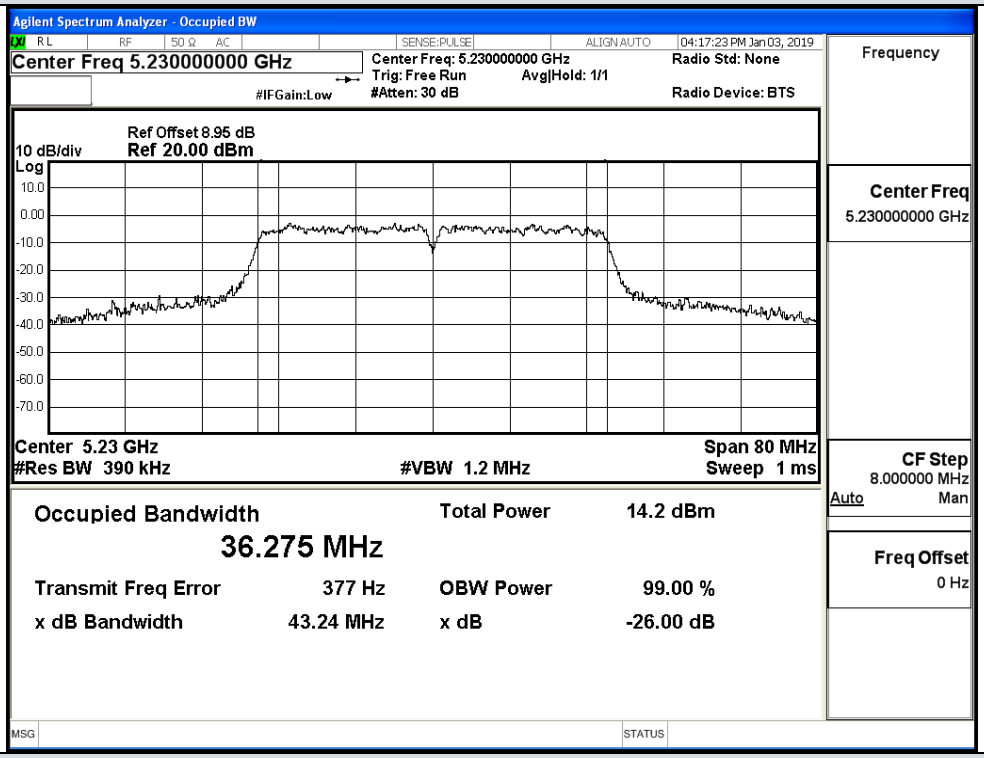


IEEE 802.11n HT20 / Channel 48 / 5240 MHz

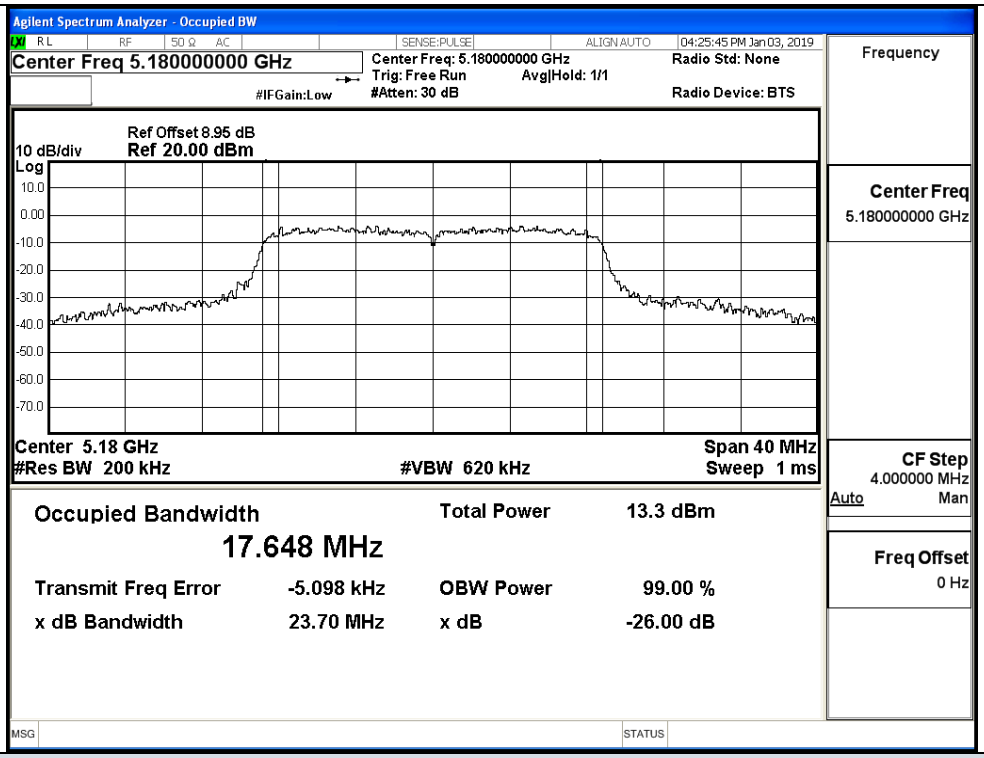
99% and 26dB Bandwidth



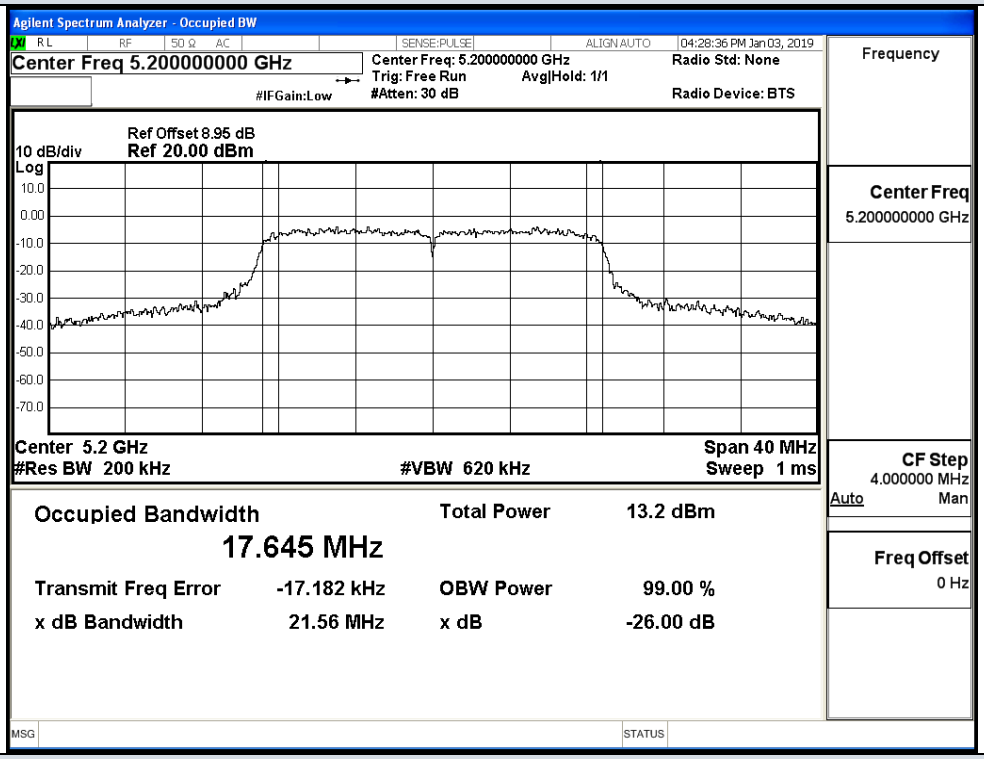
IEEE 802.11n HT40 / Channel 38 / 5190 MHz



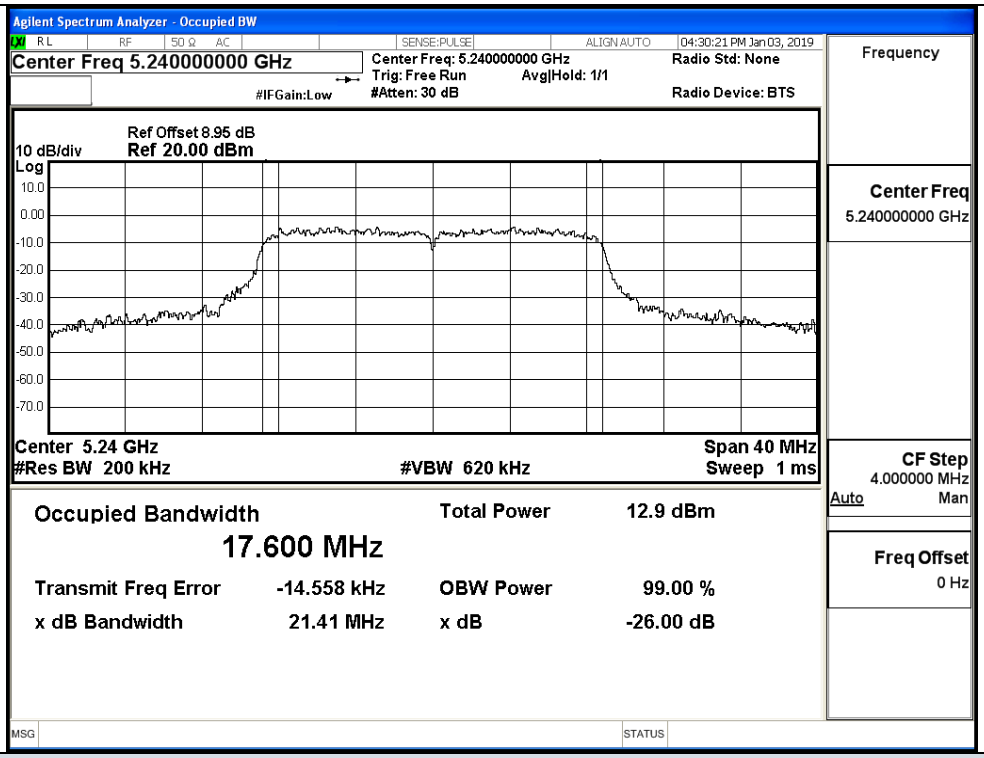
IEEE 802.11n HT40 / Channel 46 / 5230 MHz



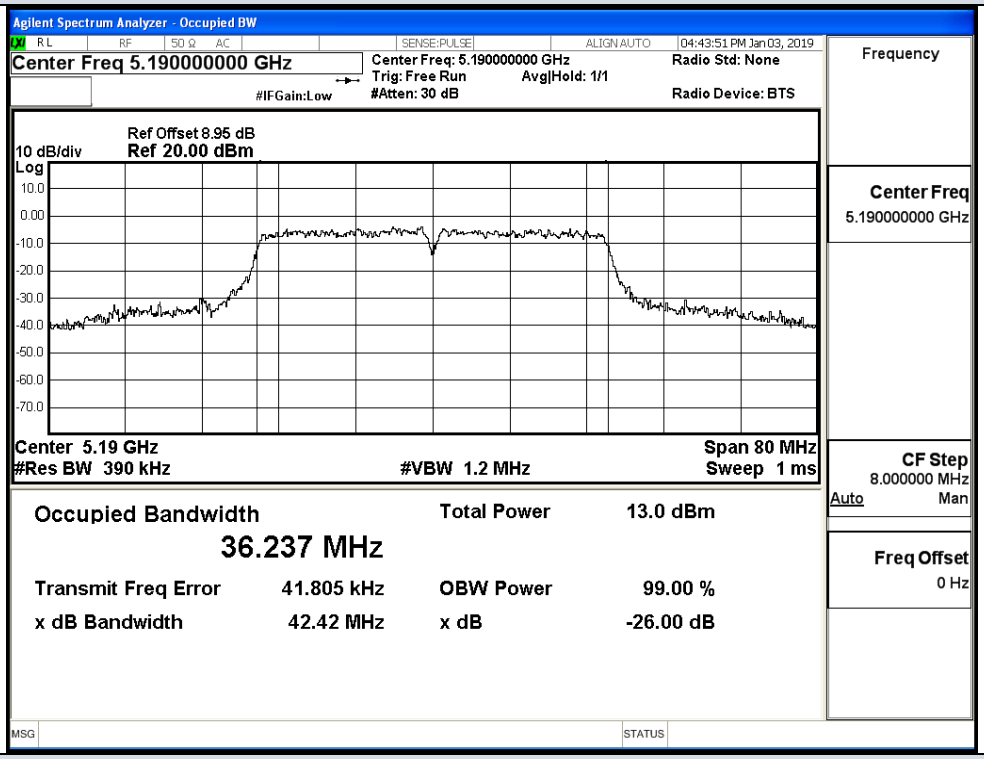
IEEE 802.11ac VHT20 / Channel 36 / 5180 MHz



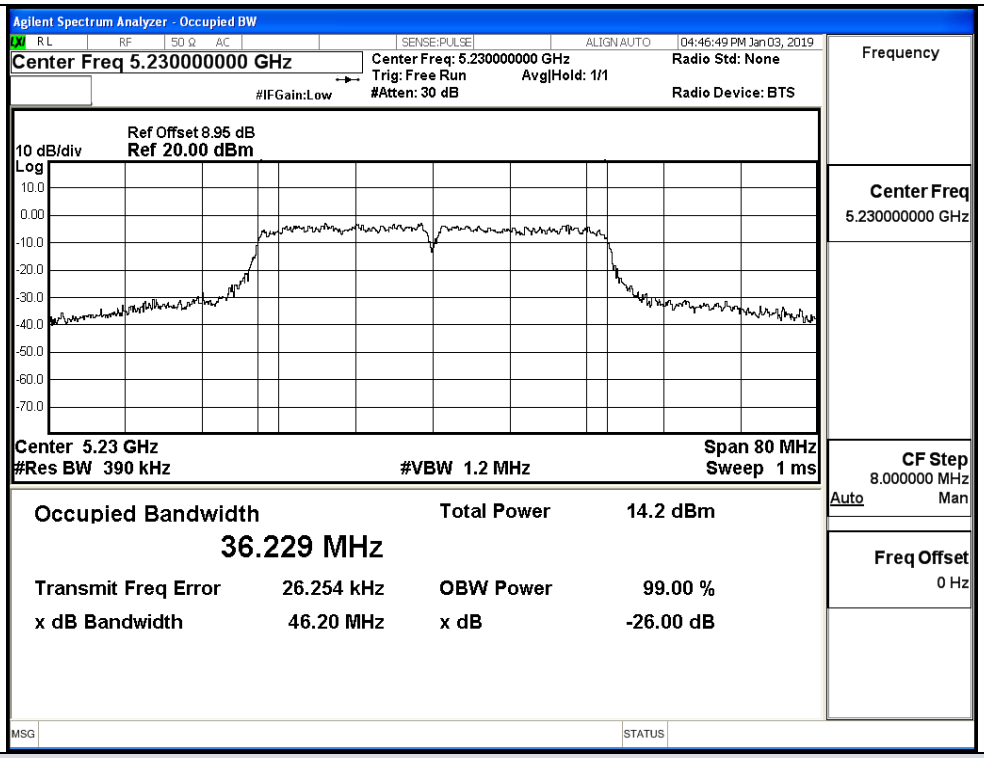
IEEE 802.11ac VHT20 / Channel 40 / 5200 MHz



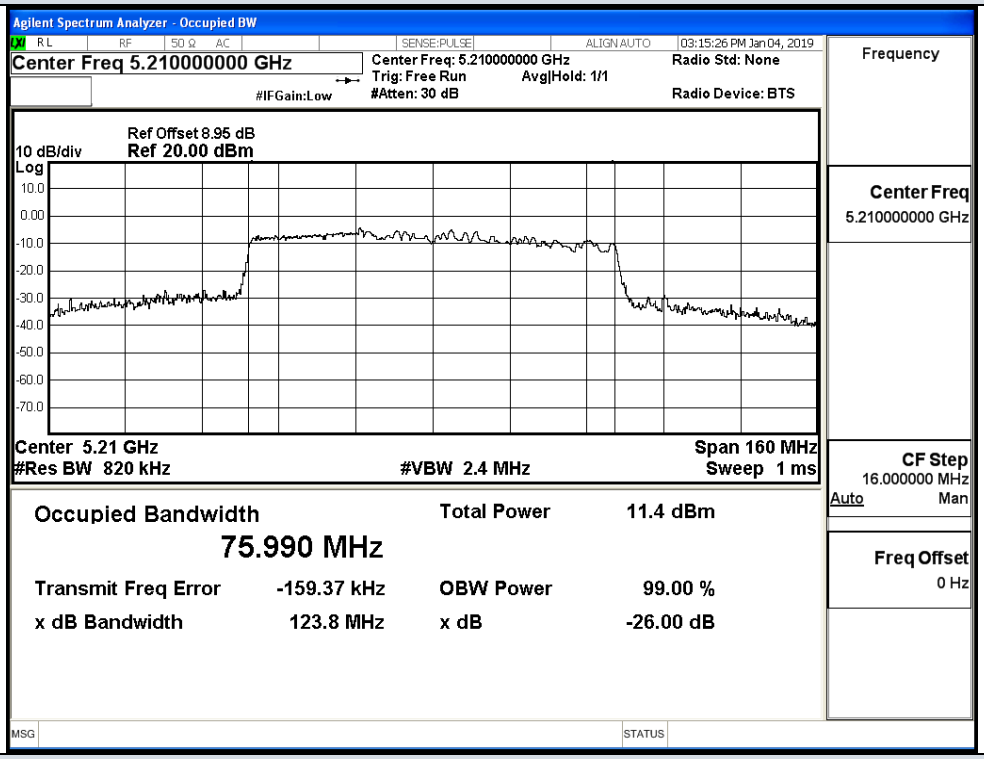
IEEE 802.11ac VHT20 / Channel 48 / 5240 MHz



IEEE 802.11ac VHT40 / Channel 38 / 5190 MHz



IEEE 802.11ac VHT40 / Channel 46 / 5230 MHz

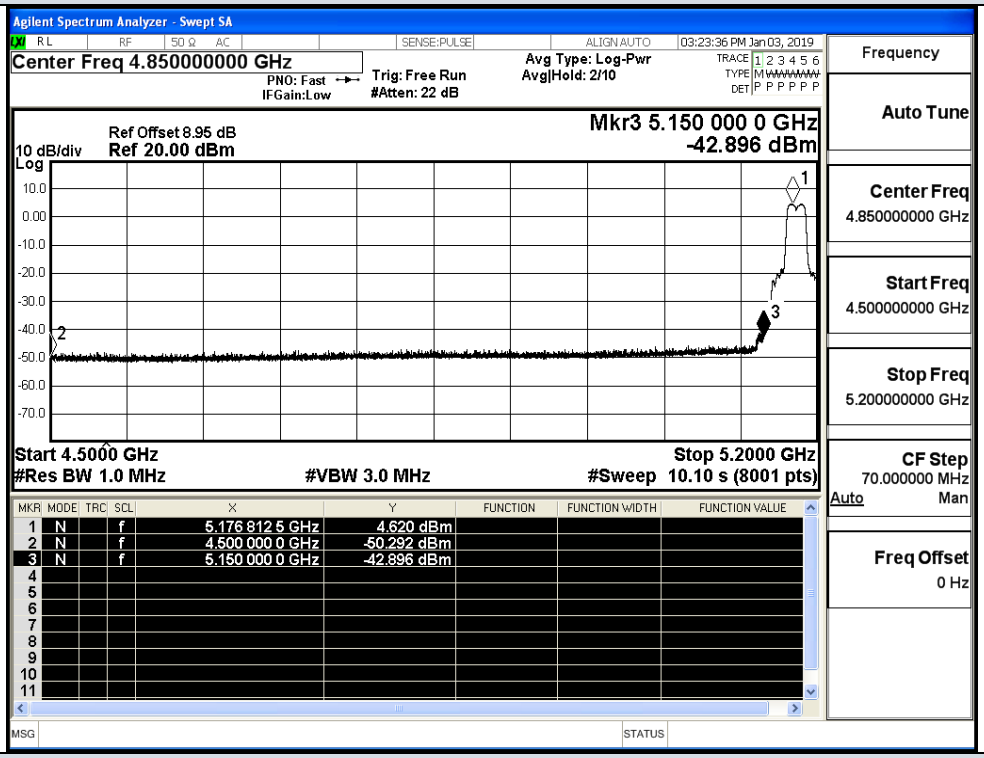


IEEE 802.11ac VHT80 / Channel 42 / 5210 MHz

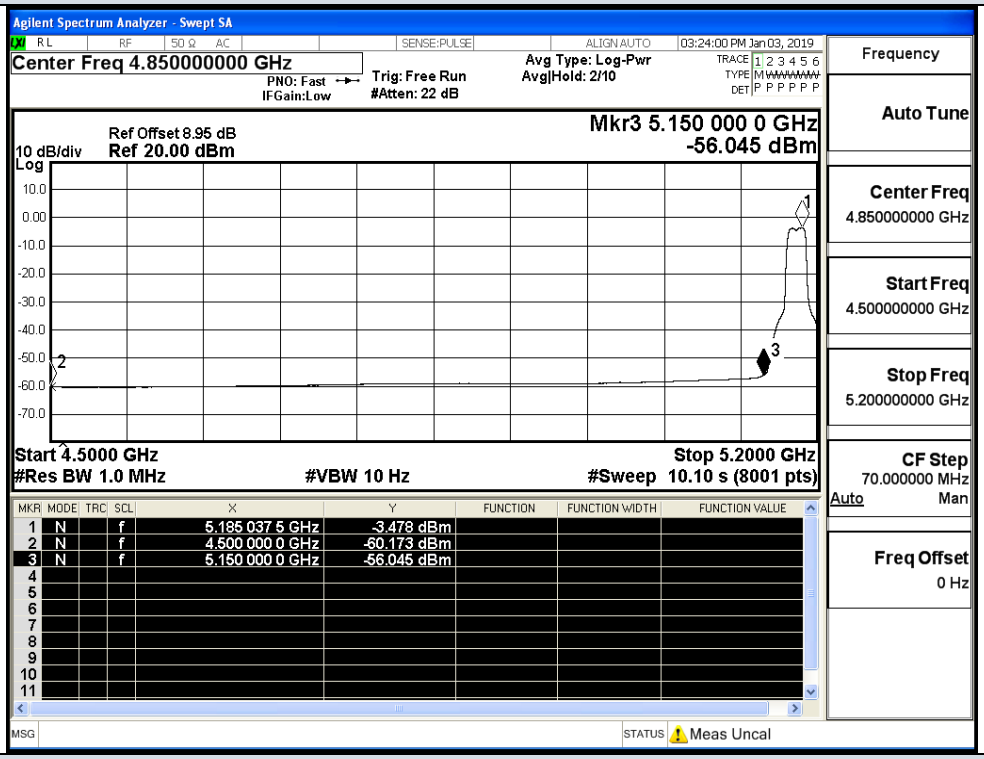
D.5 Undesirable Emissions Measurement

Test Mode	Channel	Frequency (MHz)	Conducted Power (dBm)	Antenna Gain (dBi)	Ground Reflection Factor (dB)	Covert Radiated E Level At 3m (dBuV/m)	Detector	Limit (dBuV/m)
11A	36	4500.0	-50.29	2.00	0	46.94	Peak	68.20
		4500.0	-60.17	2.00	0	37.05	Average	54.00
		5150.0	-42.90	2.00	0	54.33	Peak	68.20
		5150.0	-56.05	2.00	0	41.18	Average	54.00
	48	5350.0	-49.40	2.00	0	47.83	Peak	68.20
		5350.0	-59.73	2.00	0	37.49	Average	54.00
		5460.0	-49.61	2.00	0	47.62	Peak	68.20
		5460.0	-60.25	2.00	0	36.98	Average	54.00
11N20 SISO	36	4500.0	-50.42	2.00	0	46.80	Peak	68.20
		4500.0	-60.18	2.00	0	37.05	Average	54.00
		5150.0	-43.73	2.00	0	53.50	Peak	68.20
		5150.0	-56.50	2.00	0	40.73	Average	54.00
	48	5350.0	-49.32	2.00	0	47.91	Peak	68.20
		5350.0	-59.70	2.00	0	37.53	Average	54.00
		5460.0	-49.63	2.00	0	47.60	Peak	68.20
		5460.0	-60.22	2.00	0	37.01	Average	54.00
11N40 SISO	38	4500.0	-50.15	2.00	0	47.08	Peak	68.20
		4500.0	-60.17	2.00	0	37.06	Average	54.00
		5150.0	-31.68	2.00	0	65.55	Peak	68.20
		5150.0	-45.78	2.00	0	51.45	Average	54.00
	46	5350.0	-49.35	2.00	0	47.88	Peak	68.20
		5350.0	-59.45	2.00	0	37.77	Average	54.00
		5460.0	-50.07	2.00	0	47.16	Peak	68.20
		5460.0	-59.98	2.00	0	37.25	Average	54.00
11AC20 SISO	36	4500.0	-49.89	2.00	0	47.33	Peak	68.20
		4500.0	-60.17	2.00	0	37.06	Average	54.00
		5150.0	-43.92	2.00	0	53.31	Peak	68.20
		5150.0	-56.44	2.00	0	40.79	Average	54.00
	48	4500.0	-49.89	2.00	0	47.33	Peak	68.20
		4500.0	-60.17	2.00	0	37.06	Average	54.00
		5150.0	-43.92	2.00	0	53.31	Peak	68.20
		5150.0	-56.44	2.00	0	40.79	Average	54.00
11AC40 SISO	38	4500.0	-51.03	2.00	0	46.20	Peak	68.20
		4500.0	-60.18	2.00	0	37.05	Average	54.00
		5150.0	-32.86	2.00	0	64.37	Peak	68.20
		5150.0	-46.86	2.00	0	50.37	Average	54.00
	46	5350.0	-47.46	2.00	0	49.77	Peak	68.20
		5350.0	-59.46	2.00	0	37.77	Average	54.00
		5460.0	-49.35	2.00	0	47.88	Peak	68.20
		5460.0	-59.98	2.00	0	37.25	Average	54.00
11AC80 SISO	38	4500.0	-50.44	2.00	0	46.78	Peak	68.20
		4500.0	-60.24	2.00	0	36.99	Average	54.00
		5150.0	-31.17	2.00	0	66.06	Peak	68.20
		5150.0	-44.34	2.00	0	52.89	Average	54.00
	46	5350.0	-50.44	2.00	0	46.78	Peak	68.20
		5350.0	-60.24	2.00	0	36.99	Average	54.00
		5460.0	-31.17	2.00	0	66.06	Peak	68.20
		5460.0	-44.34	2.00	0	52.89	Average	54.00

Undesirable Emissions Measurement

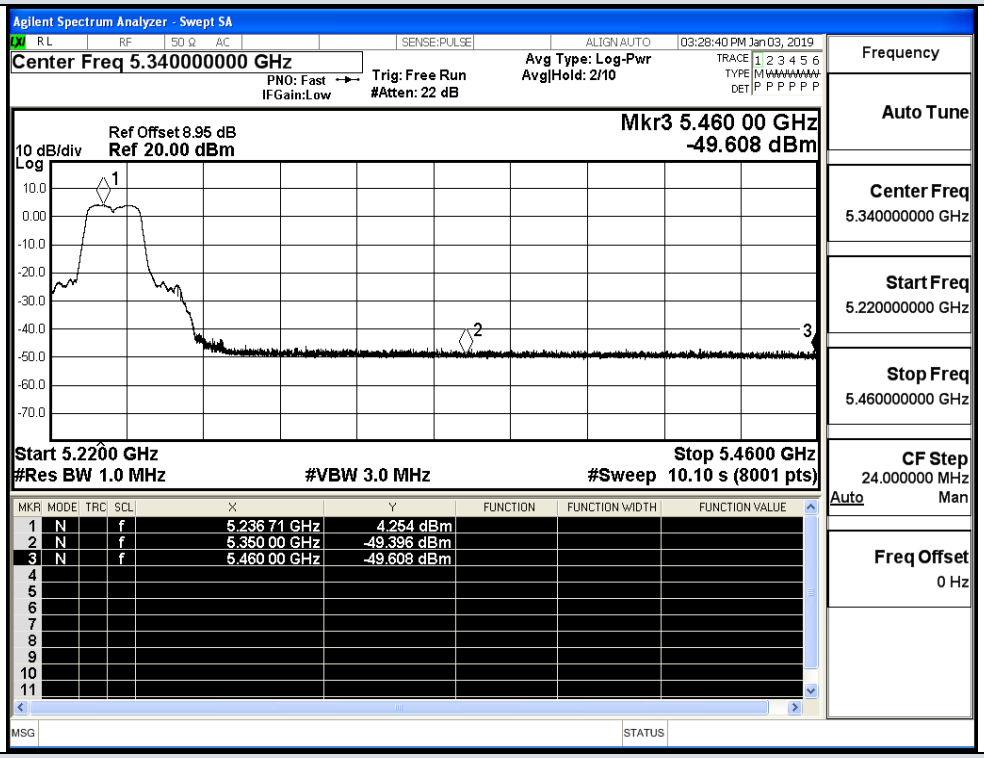


IEEE 802.11a / Channel 36 / 5180 MHz / Peak

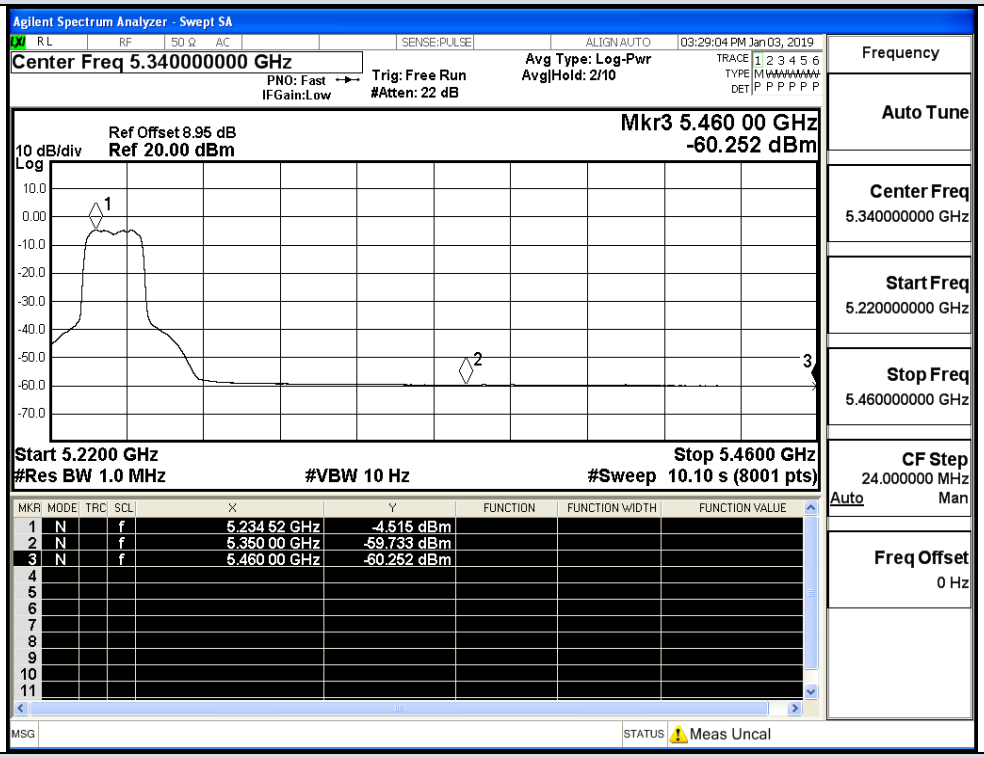


IEEE 802.11a / Channel 36 / 5180 MHz / Average

Undesirable Emissions Measurement

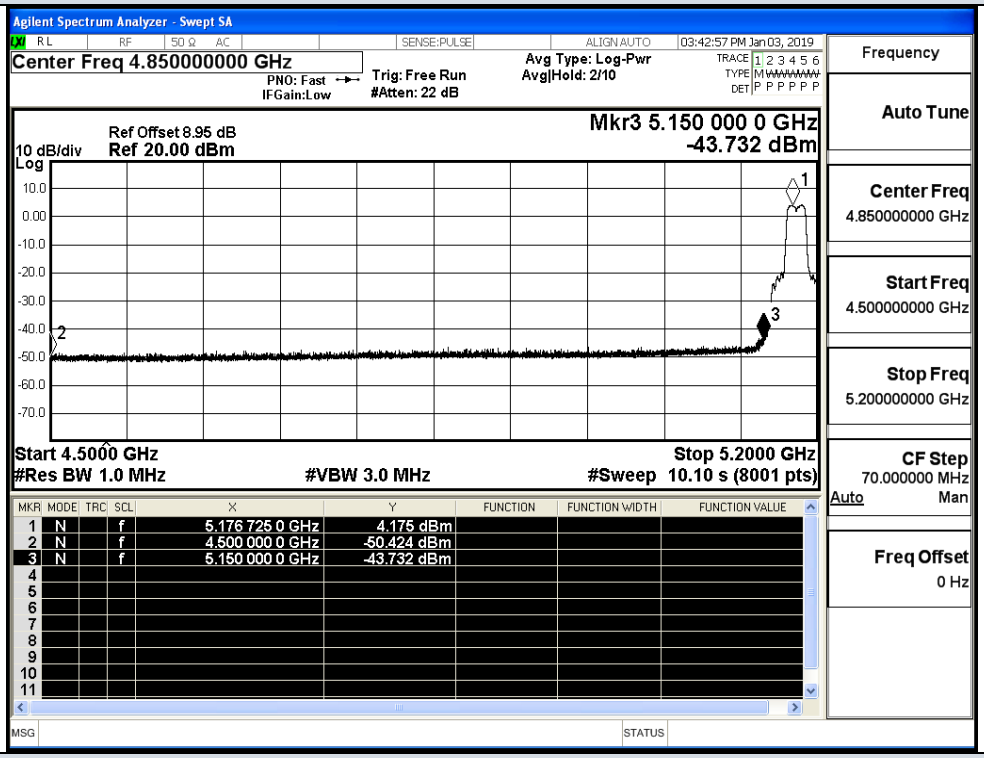


IEEE 802.11a / Channel 48 / 5240 MHz / Peak

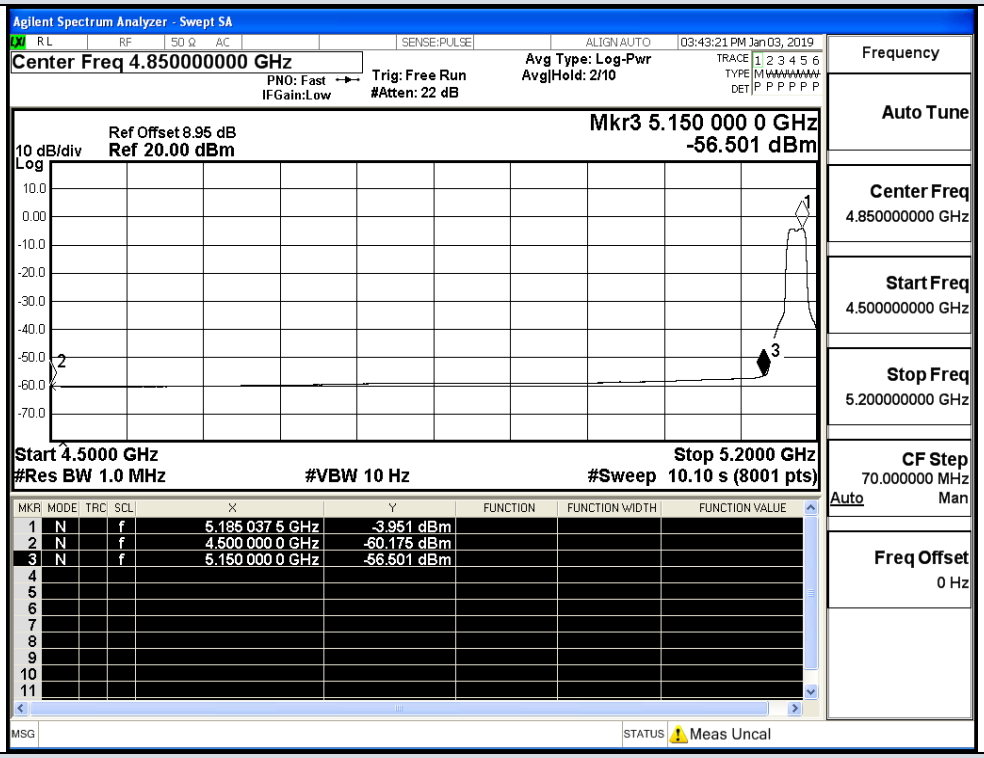


IEEE 802.11a / Channel 48 / 5240 MHz / Average

Undesirable Emissions Measurement

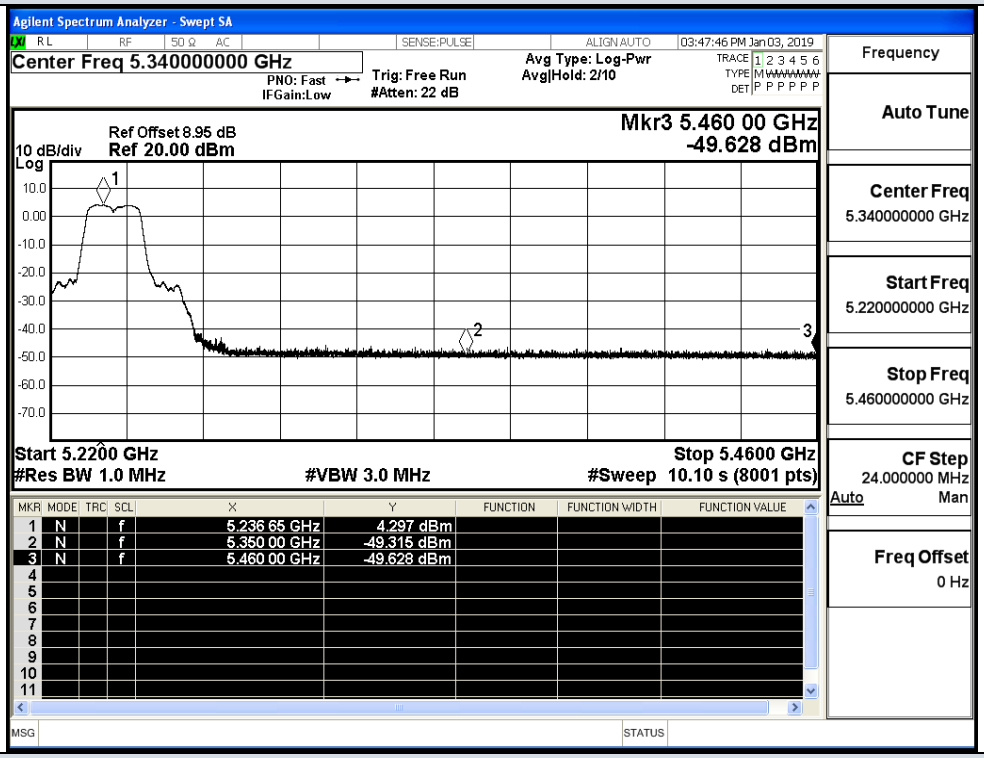


IEEE 802.11n HT20 / Channel 36 / 5180 MHz / Peak

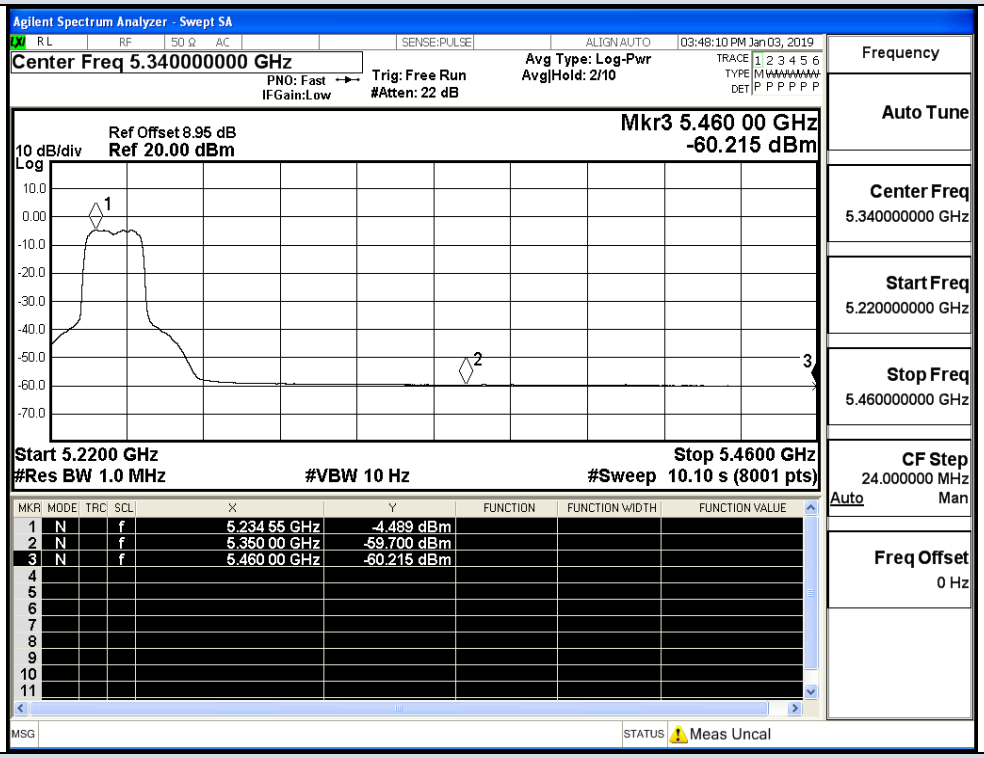


IEEE 802.11n HT20 / Channel 36 / 5180 MHz / Average

Undesirable Emissions Measurement

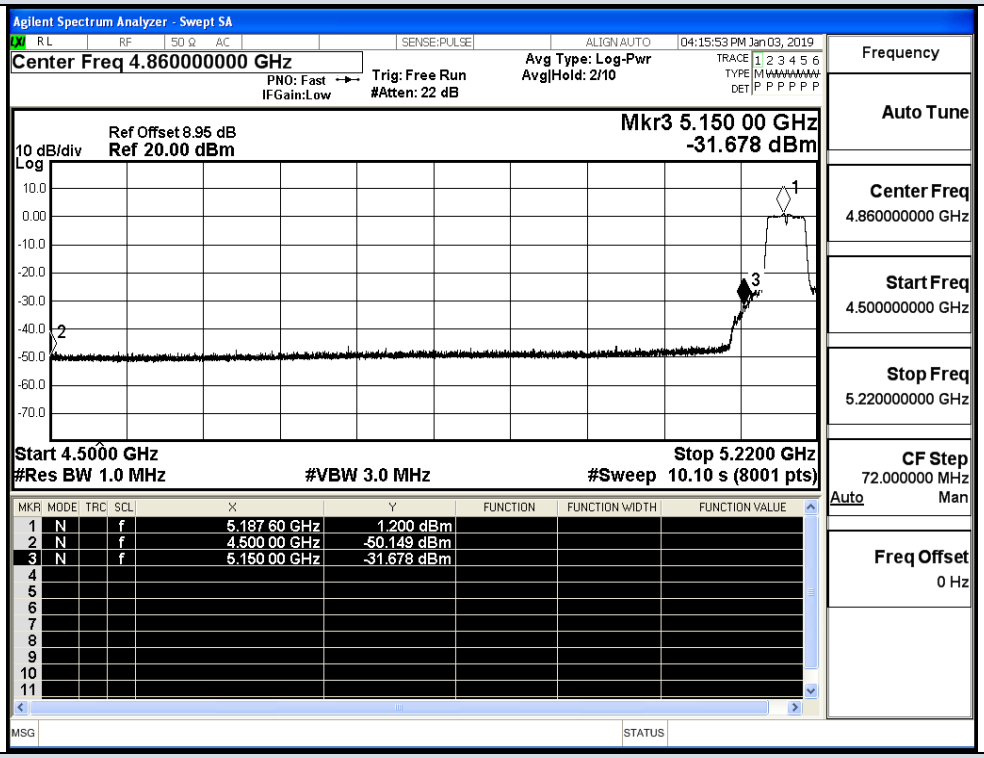


IEEE 802.11n HT20 / Channel 48 / 5240 MHz / Peak

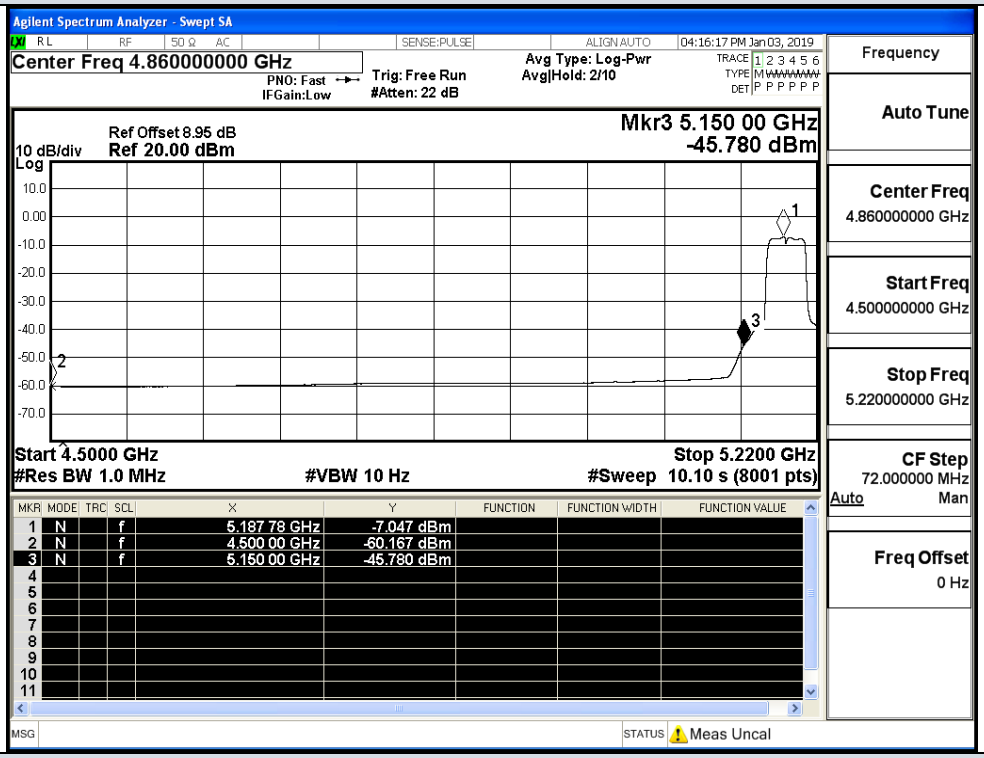


IEEE 802.11n HT20 / Channel 48 / 5240 MHz / Average

Undesirable Emissions Measurement

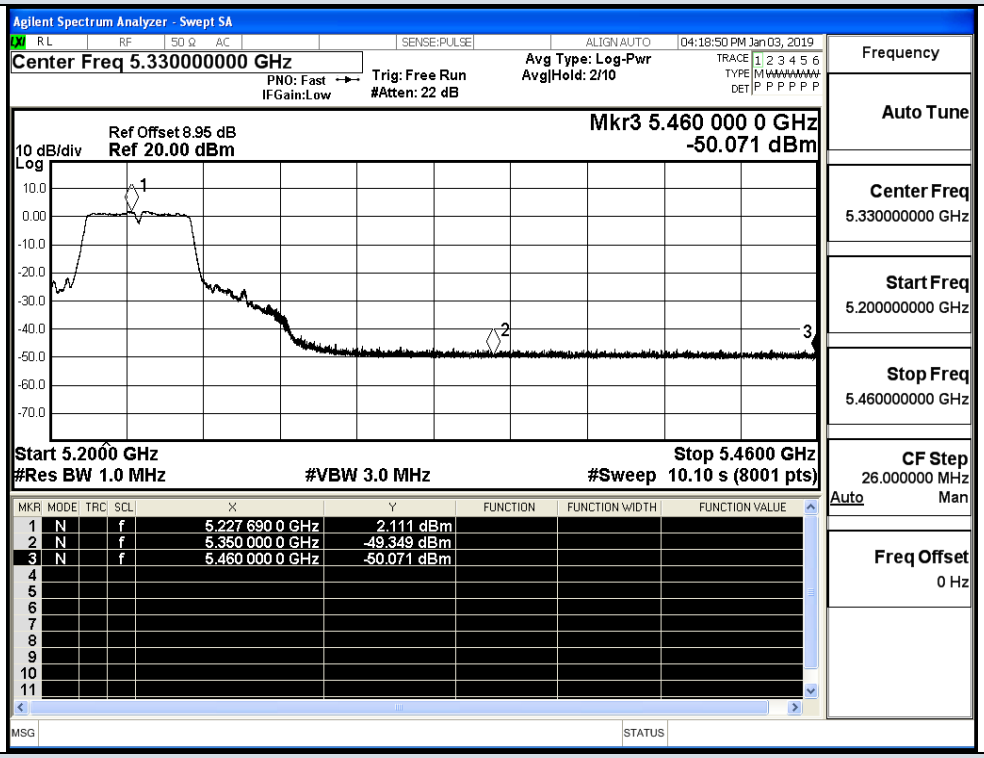


IEEE 802.11n HT40 / Channel 38 / 5190 MHz / Peak

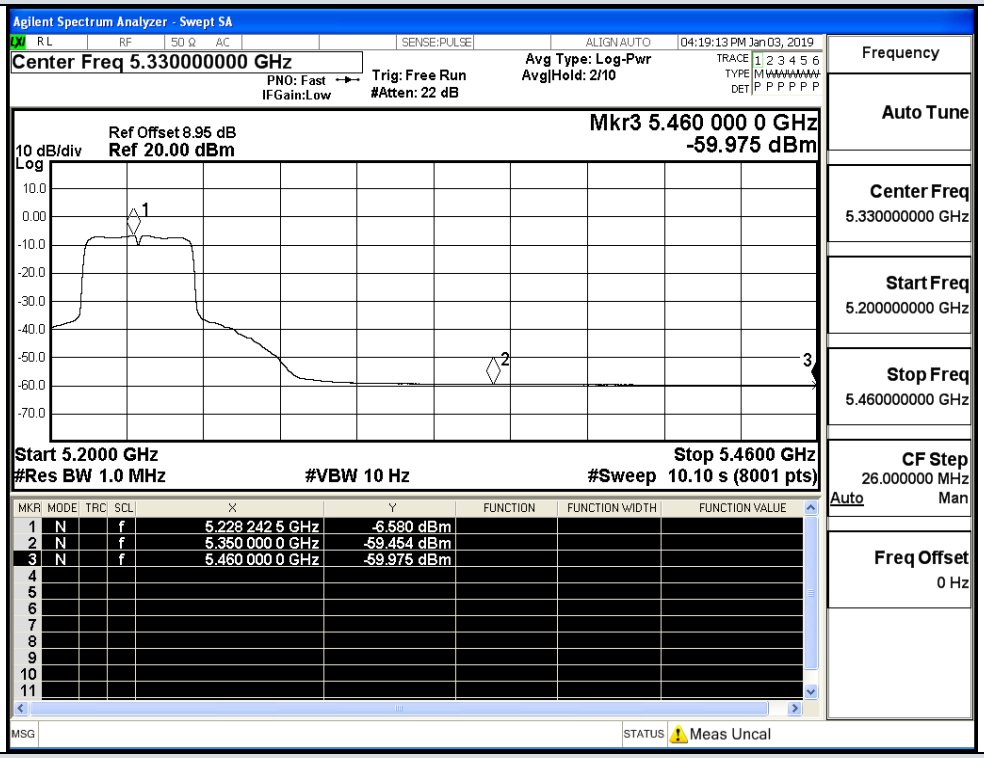


IEEE 802.11n HT40 / Channel 38 / 5190MHz / Average

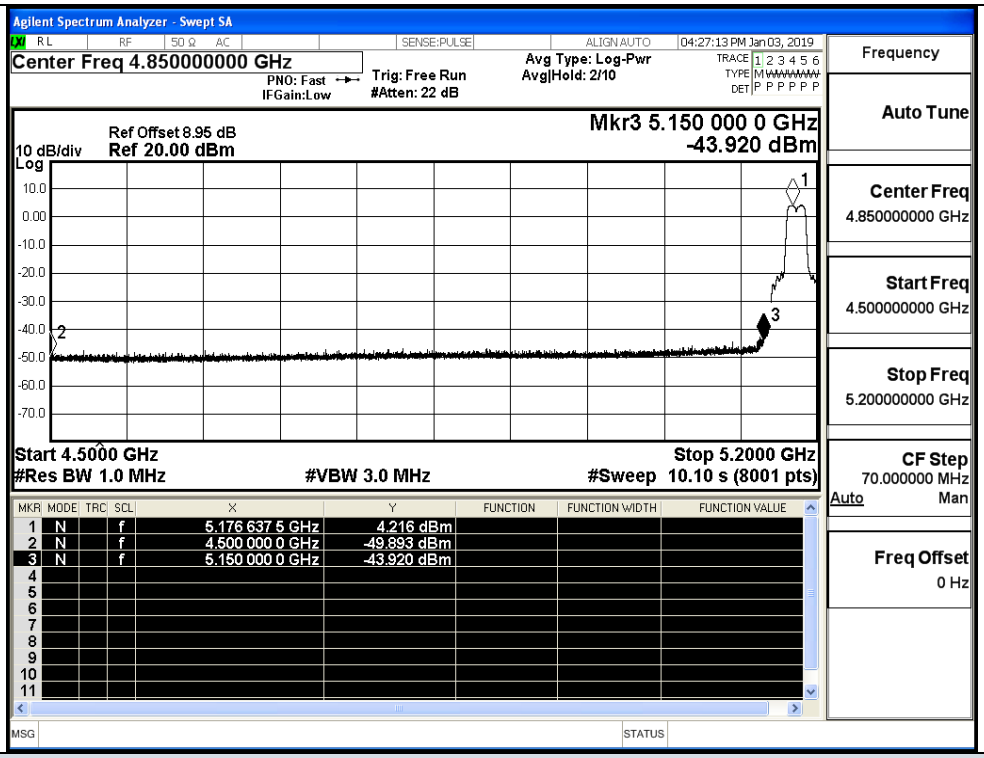
Undesirable Emissions Measurement



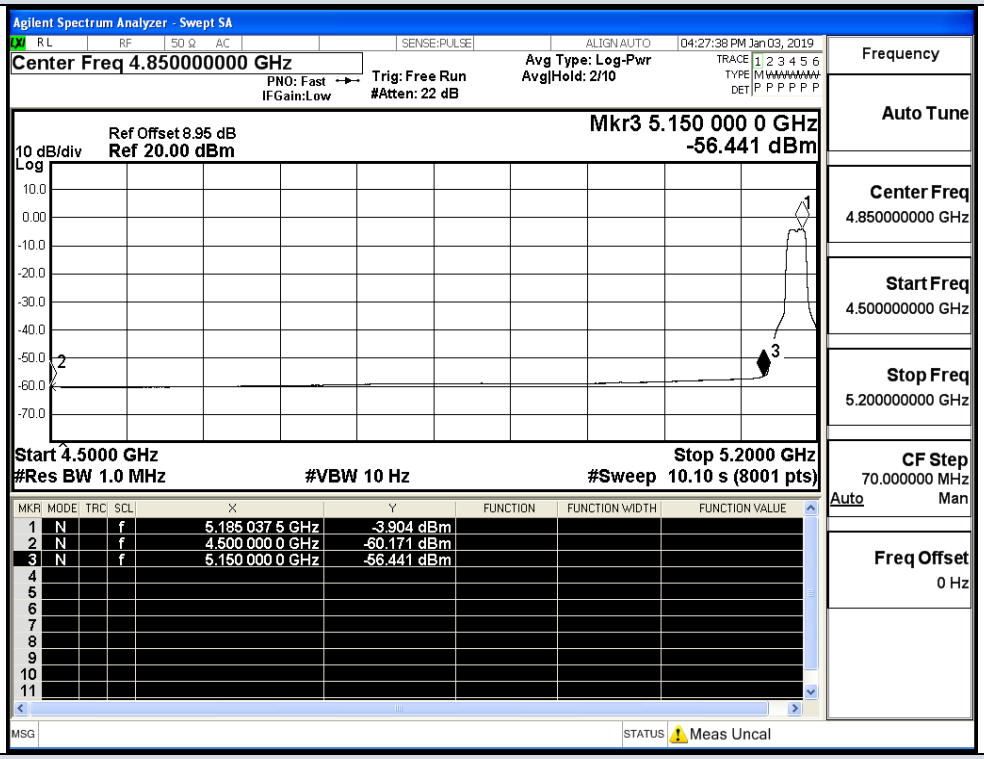
IEEE 802.11n HT40 / Channel 46 / 5230 MHz / Peak



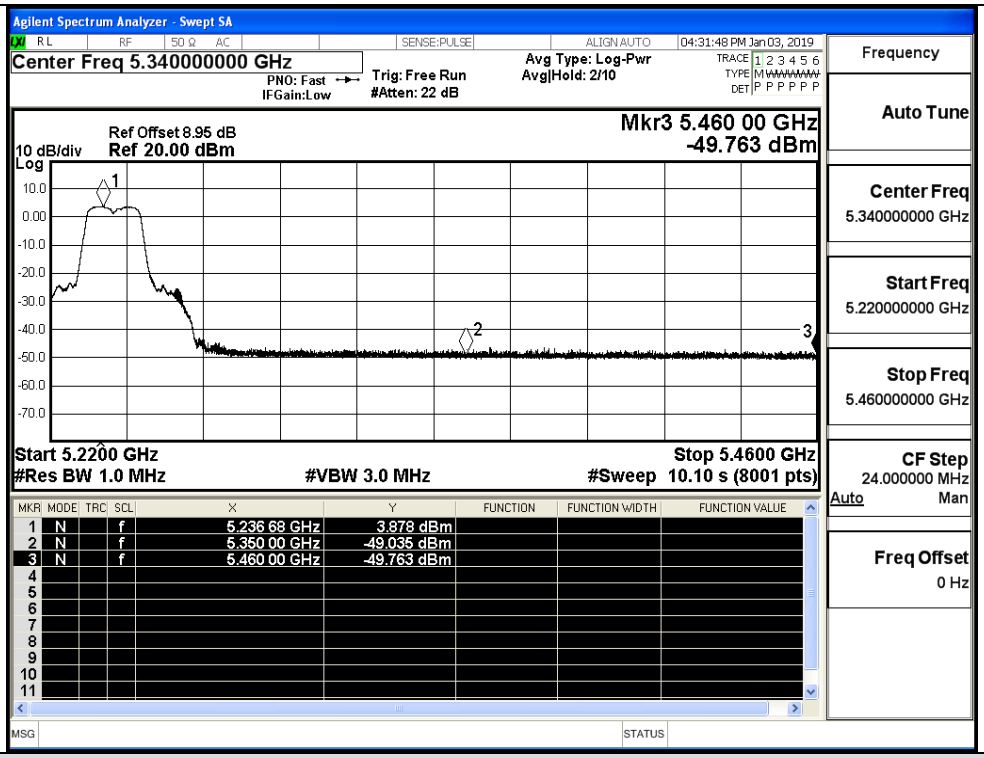
IEEE 802.11n HT40 / Channel 46 / 5230 MHz / Average



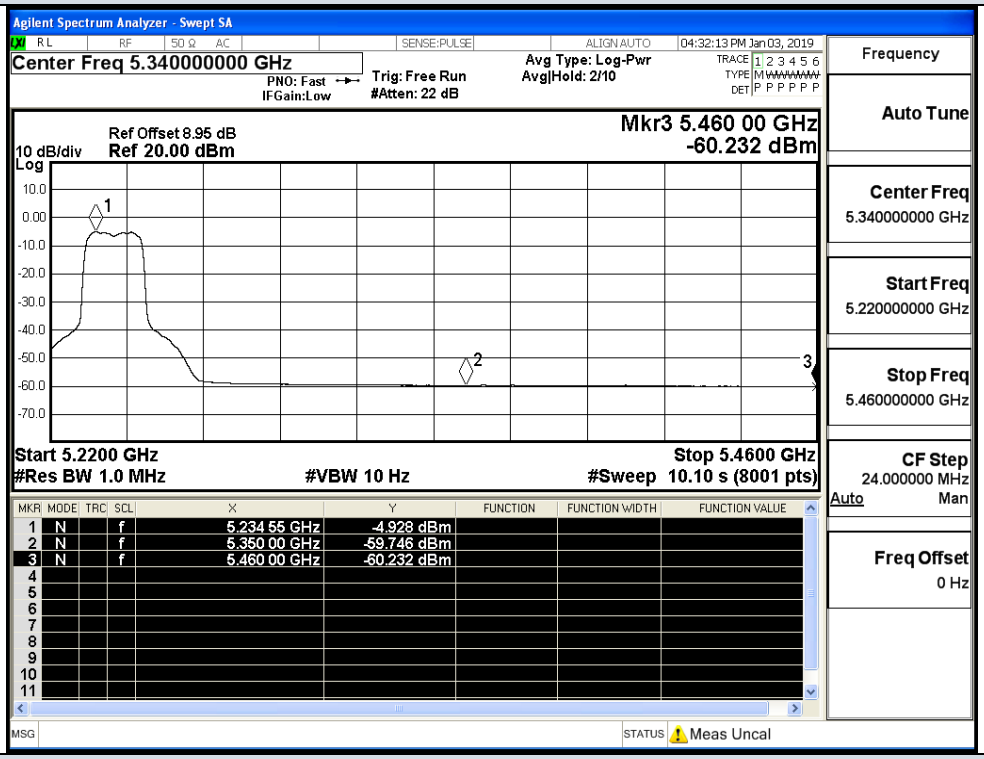
IEEE 802.11ac VHT20 / Channel 36 / 5180 MHz / Peak



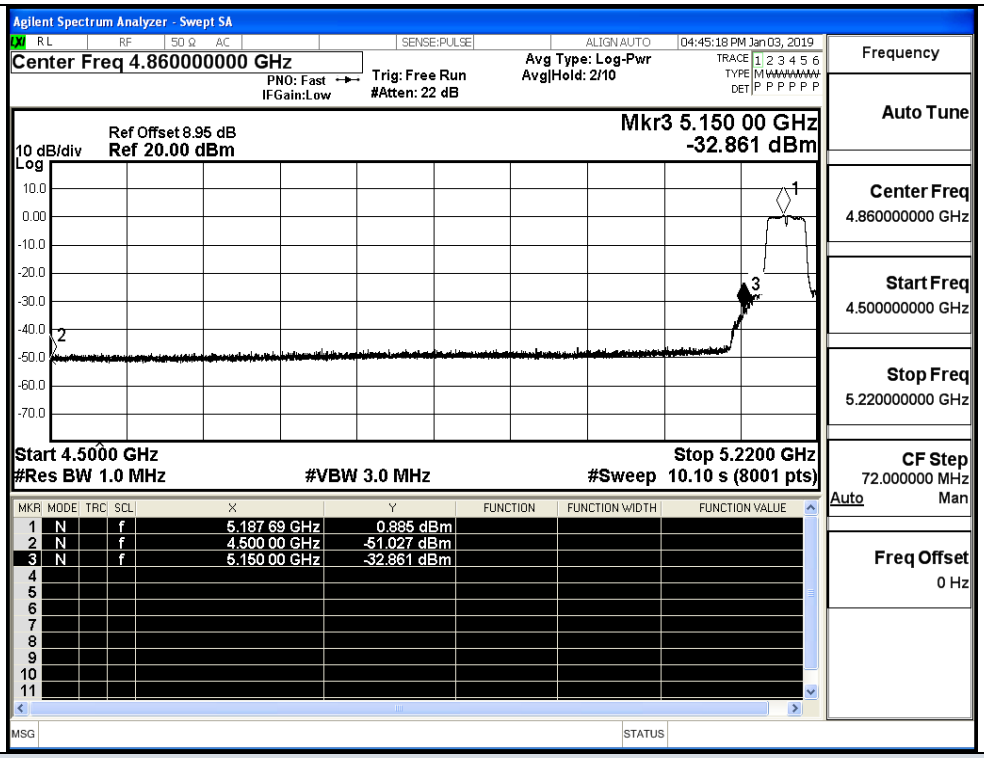
IEEE 802.11ac VHT 20 / Channel 36 / 5180 MHz / Average



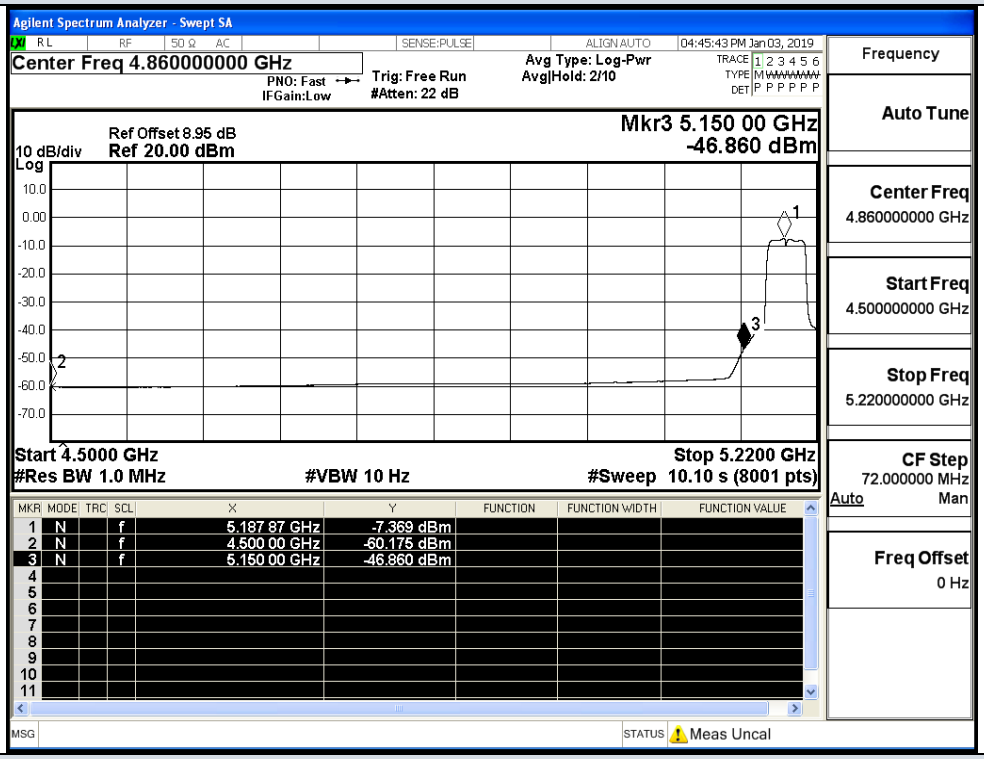
IEEE 802.11ac VHT20 / Channel 48 / 5240 MHz / Peak



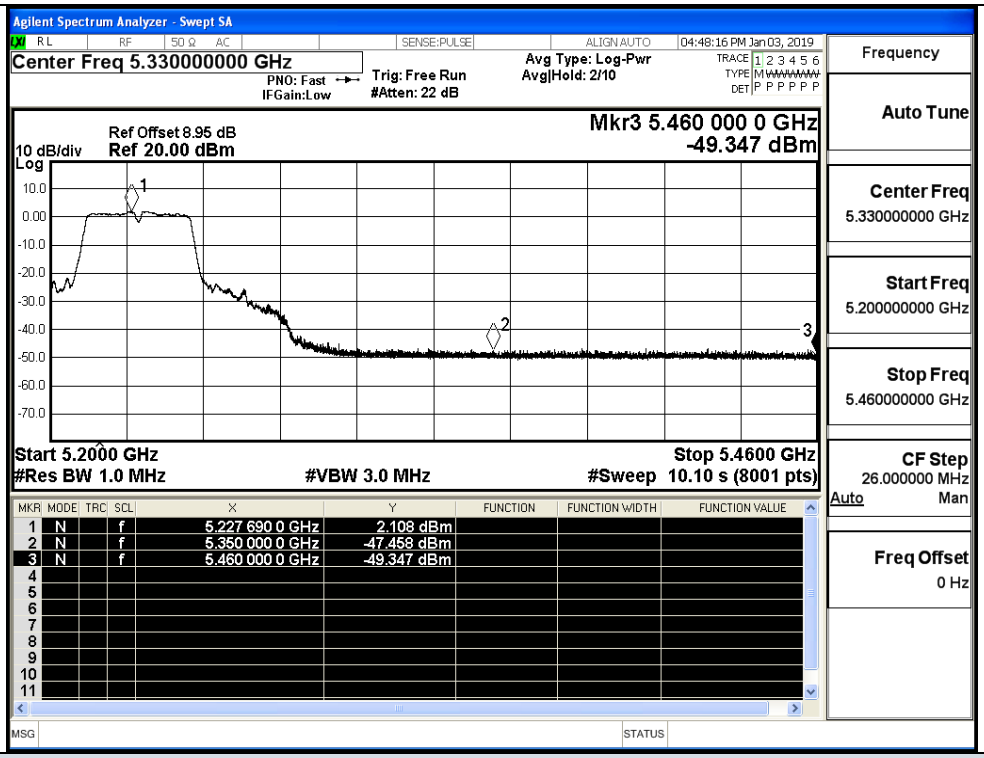
IEEE 802.11ac VHT20 / Channel 48 / 5240 MHz / Average



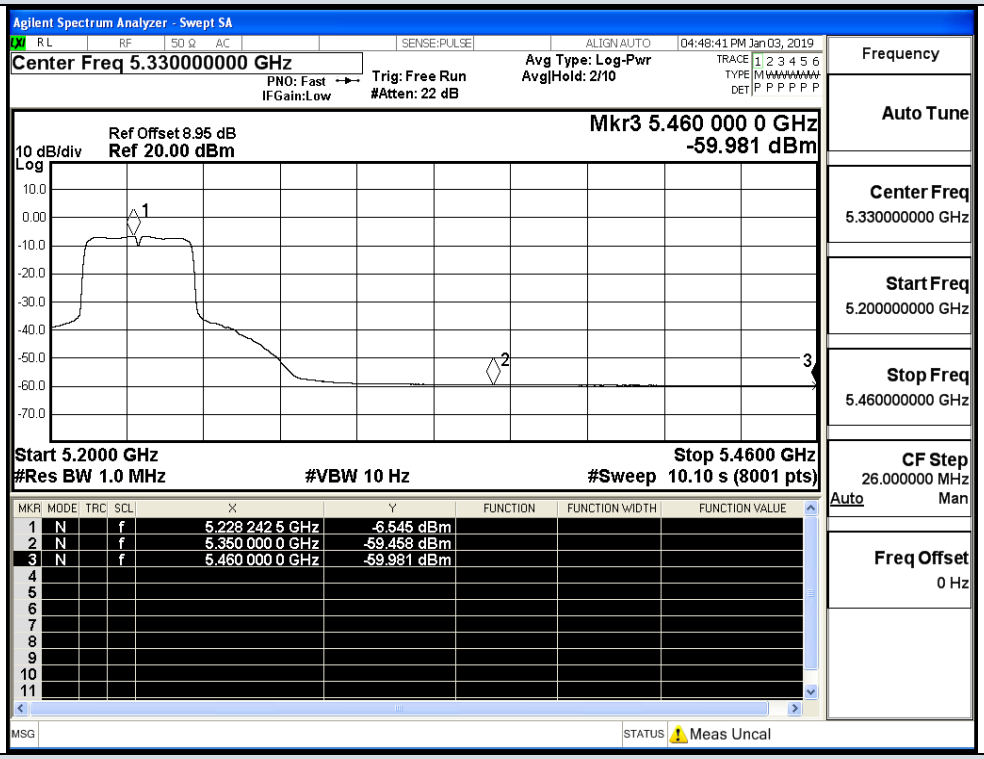
IEEE 802.11ac VHT40 / Channel 38/ 5190 MHz / Peak



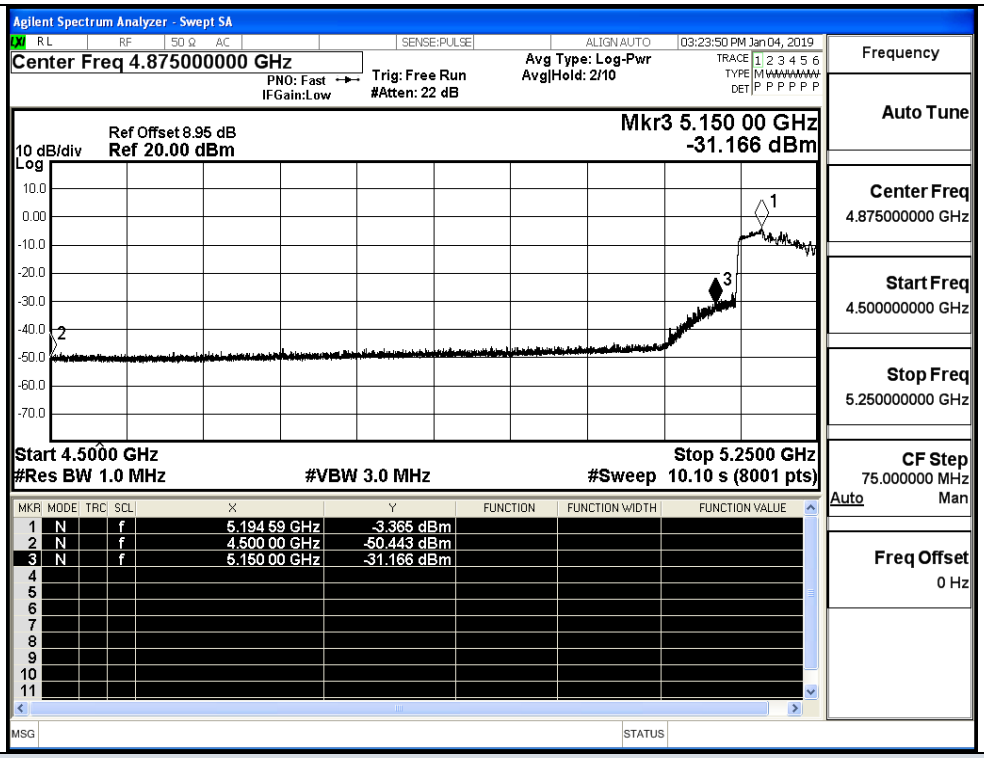
IEEE 802.11ac VHT40 / Channel 38 / 5190 MHz / Average



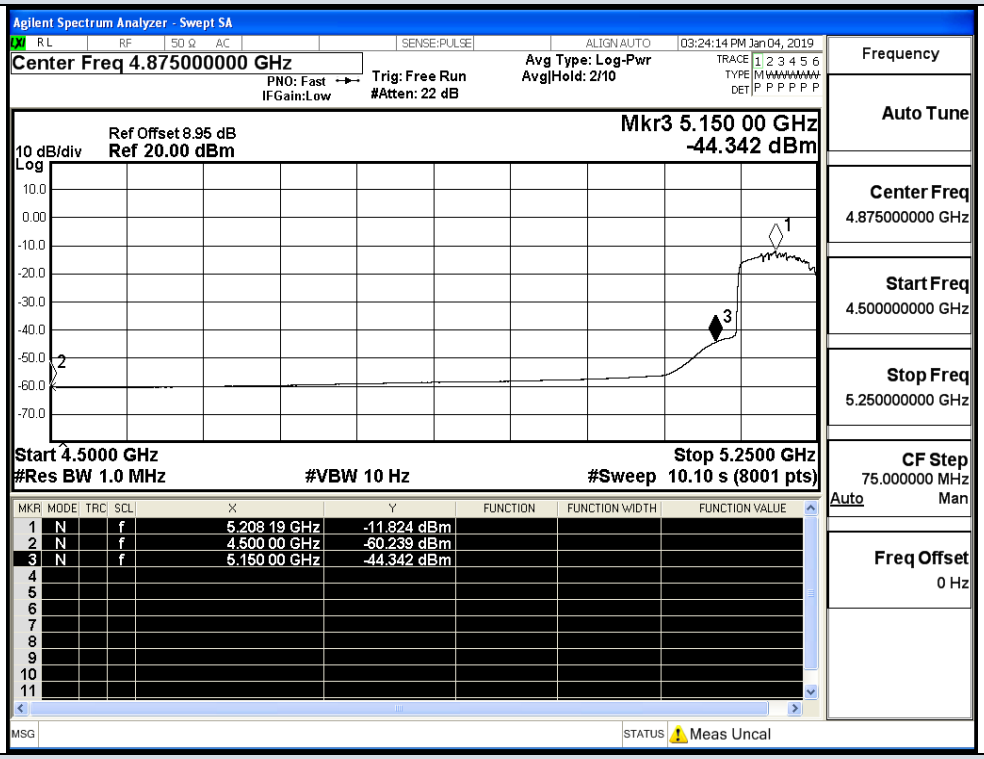
IEEE 802.11ac VHT40 / Channel 46/ 5230 MHz / Peak



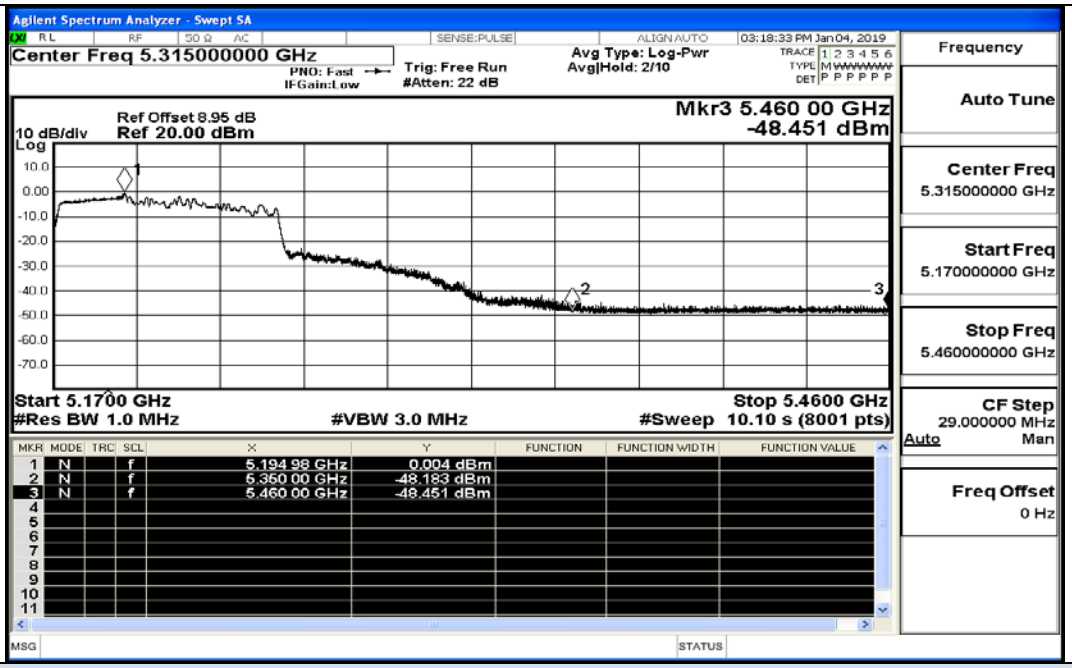
IEEE 802.11ac VHT40 / Channel 46 / 5230 MHz / Average



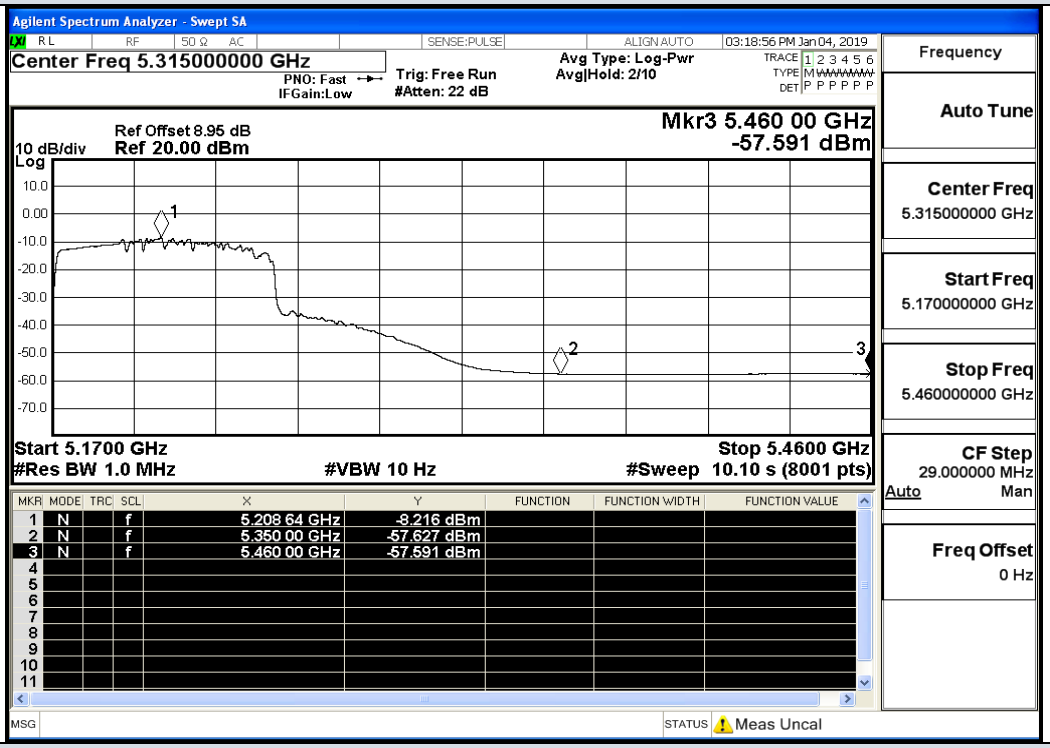
IEEE 802.11ac VHT80 / Channel 42 / 5210 MHz / Peak



IEEE 802.11ac VHT80 / Channel 42 / 5210 MHz / Average



IEEE 802.11ac VHT80 / Channel 42/ 5210 MHz / Peak



IEEE 802.11ac VHT80 / Channel 42 / 5210 MHz / Average