

Appendix D

RF Test Data for 5.2G WLAN (Conducted Measurement)

Product Name: Laptop
Trade Mark: Wings Mobile
Test Model: Wings Book

Environmental Conditions

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

D.1 Duty Cycle

ANT1

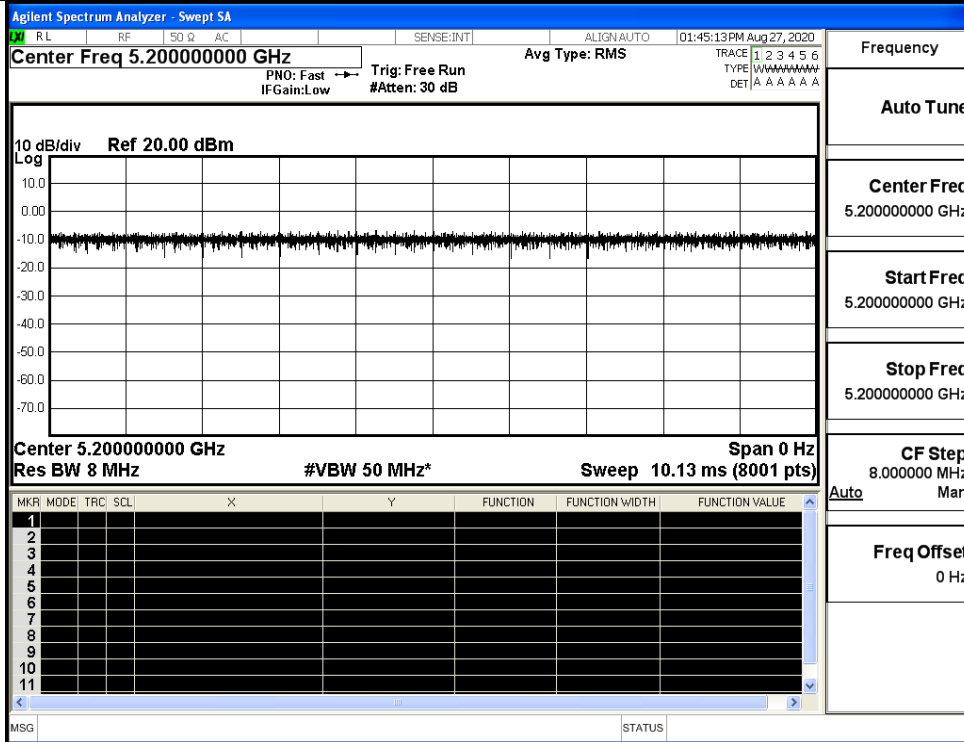
Test Mode	Test Frequency (MHz)	Duty Cycle (%)	10log(1/x) Factor (dB)	1/B Minimum VBW(KHz)
11A	5200	100	0.00	0.01
11N20 SISO	5200	100	0.00	0.01
11N40 SISO	5190	100	0.00	0.01
11AC20 SISO	5200	100	0.00	0.01
11AC40 SISO	5190	100	0.00	0.01
11AC80 SISO	5210	100	0.00	0.01

ANT2

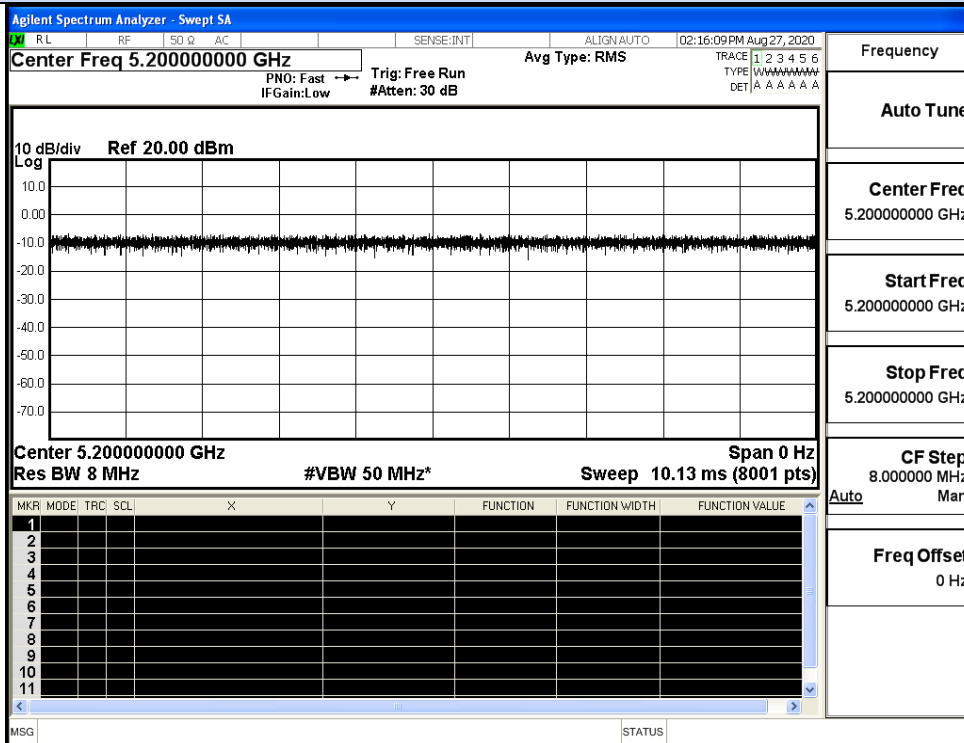
Test Mode	Test Frequency (MHz)	Duty Cycle (%)	10log(1/x) Factor (dB)	1/B Minimum VBW(KHz)
11A	5200	100	0.00	0.01
11N20 SISO	5200	100	0.00	0.01
11N40 SISO	5190	100	0.00	0.01
11AC20 SISO	5200	100	0.00	0.01
11AC40 SISO	5190	100	0.00	0.01
11AC80 SISO	5210	100	0.00	0.01

ANT1

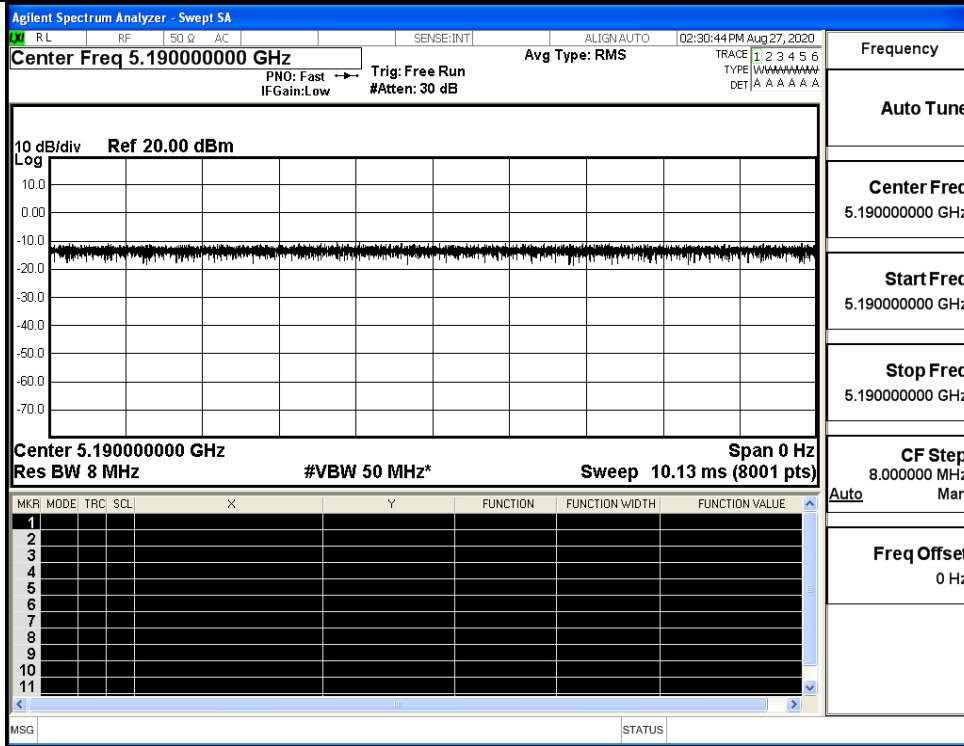
On Time and Duty Cycle



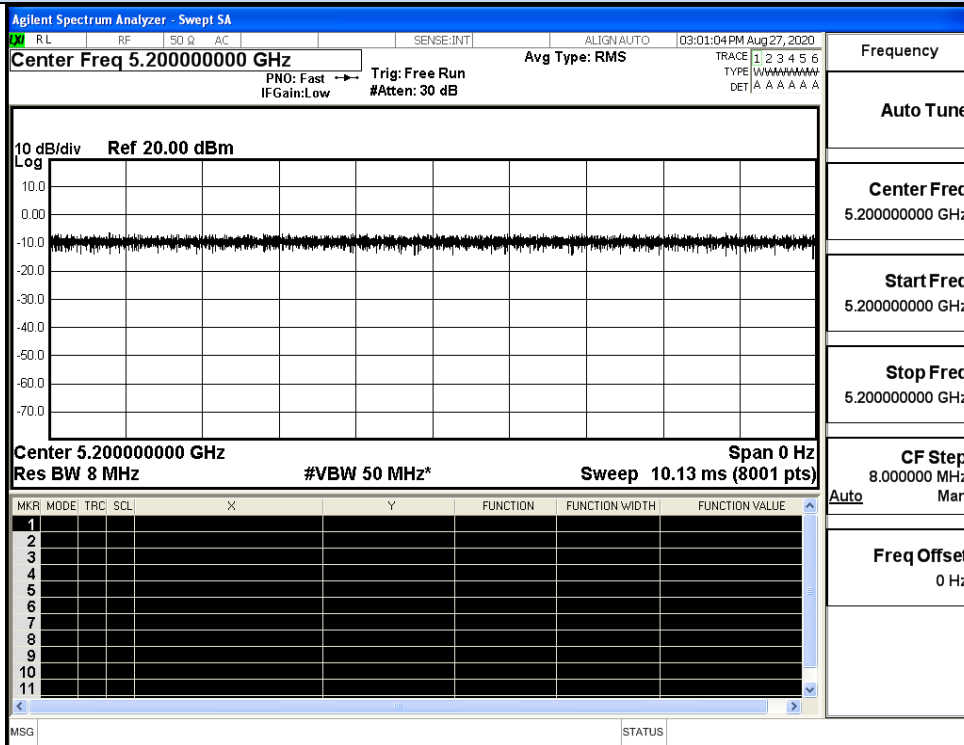
IEEE 802.11a



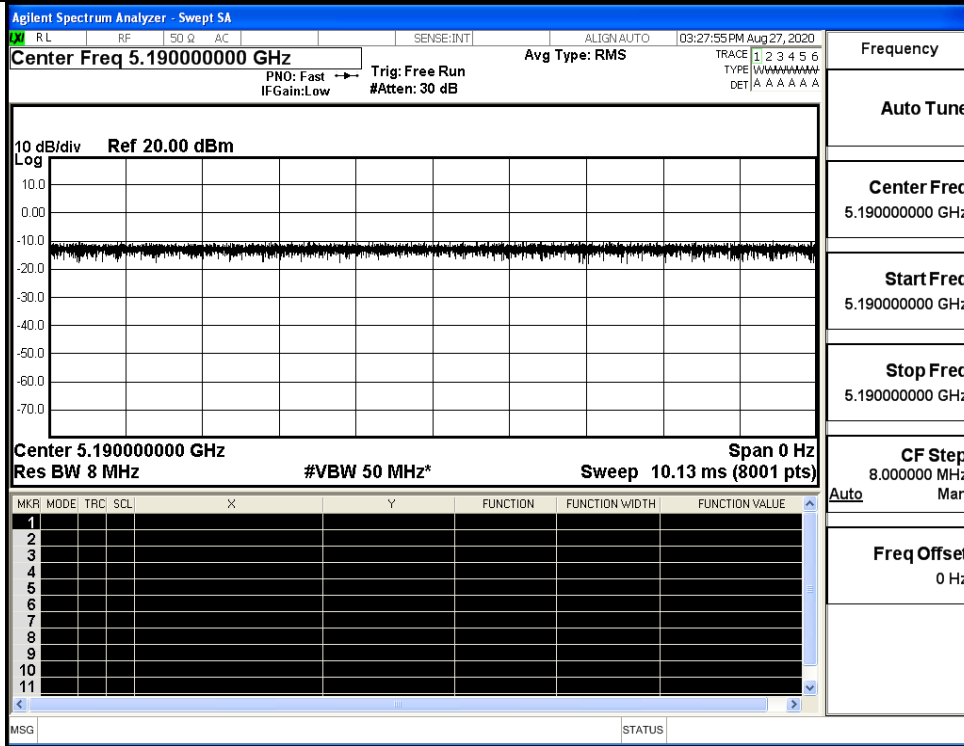
IEEE 802.11n HT20



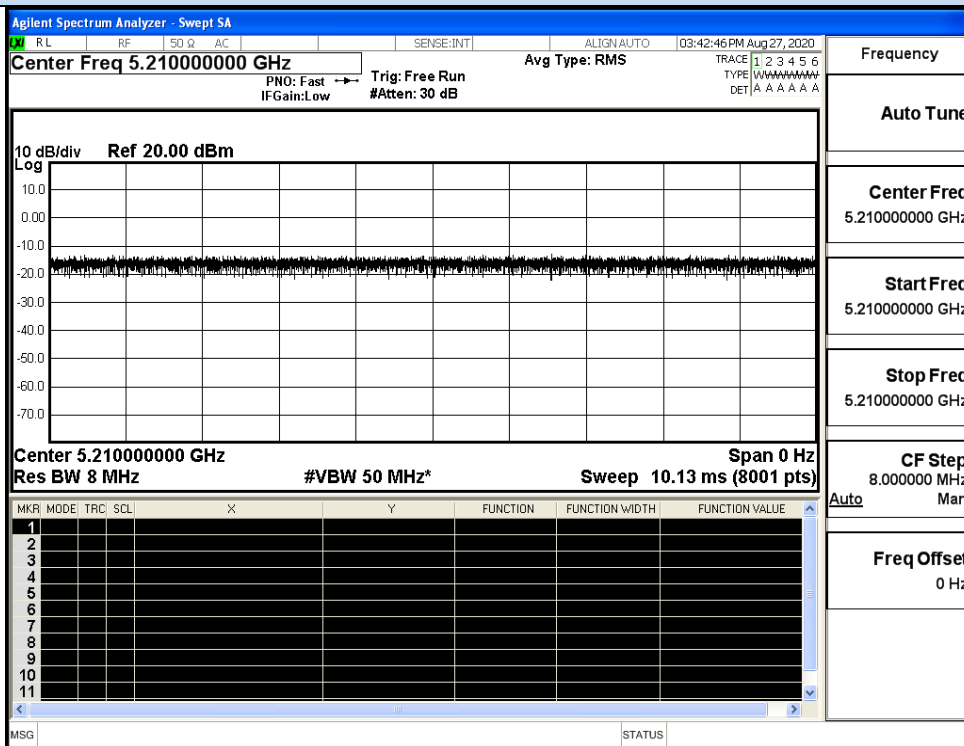
IEEE 802.11n HT40



IEEE 802.11AC20



IEEE 802.11 AC40



IEEE 802.11 AC80

Notes:the report recorded the worst of ANT1

D.2 Maximum Conduct Output Power**ANT 1**

Test Mode	Channel	Frequency (MHz)	AVG Conducted Power (dBm)	Duty Cycle Factor(d B)	Report Conducted Power(dBm)	Limit (dBm)	Verdict
11A	36	5180	4.52	0	4.52	24	Pass
	40	5200	4.35	0	4.35		Pass
	48	5240	4.52	0	4.52		Pass
11N20 SISO	36	5180	4.49	0	4.49	24	Pass
	40	5200	4.68	0	4.68		Pass
	48	5240	4.22	0	4.22		Pass
11N40 SISO	38	5190	4.73	0	4.73	24	Pass
	46	5230	4.35	0	4.35		Pass
11AC20 SISO	36	5180	4.96	0	4.96	24	Pass
	40	5200	4.79	0	4.79		Pass
	48	5240	4.02	0	4.02		Pass
11AC40 SISO	38	5190	4.03	0	4.03	24	Pass
	46	5230	4.91	0	4.91		Pass
11AC80 SISO	42	5210	4.44	0	4.44	24	Pass

ANT 2

Test Mode	Channel	Frequency (MHz)	AVG Conducted Power (dBm)	Duty Cycle Factor(d B)	Report Conducted Power(dBm)	Limit (dBm)	Verdict
11A	36	5180	4.32	0	4.52	24	Pass
	40	5200	4.42	0	4.35		Pass
	48	5240	4.38	0	4.52		Pass
11N20 SISO	36	5180	4.52	0	4.49	24	Pass
	40	5200	4.12	0	4.68		Pass
	48	5240	4.56	0	4.22		Pass
11N40 SISO	38	5190	4.45	0	4.73	24	Pass
	46	5230	4.45	0	4.35		Pass
11AC20 SISO	36	5180	4.86	0	4.96	24	Pass
	40	5200	4.48	0	4.79		Pass
	48	5240	4.42	0	4.02		Pass
11AC40 SISO	38	5190	4.42	0	4.03	24	Pass
	46	5230	4.69	0	4.91		Pass
11AC80 SISO	42	5210	4.63	0	4.44	24	Pass

ANT1+ANT2

Test Mode	Channel	Frequency (MHz)	Duty Cycle Factor (dB)	Report Conducted Power (dBm)			Limit (dBm)	Verdict
				Ant1	Ant2	Sum		
11N20 MIMO	36	5180	0	4.49	4.52	7.52	24	Pass
	40	5200	0	4.68	4.12	7.42		Pass
	48	5240	0	4.22	4.56	7.40		Pass
11N40 MIMO	38	5190	0	4.73	4.45	7.60	24	Pass
	46	5230	0	4.35	4.45	7.41		Pass
11AC20 MIMO	36	5180	0	4.96	4.86	7.92	24	Pass
	40	5200	0	4.79	4.48	7.65		Pass
	48	5240	0	4.02	4.42	7.23		Pass
11AC40 MIMO	38	5190	0	4.03	4.42	7.24	24	Pass
	46	5230	0	4.91	4.69	7.81		Pass
11AC80 MIMO	42	5210	0	4.44	4.63	7.55	24	Pass

D.3 Power Spectral Density**ANT1**

Test Mode	Channel	Frequency (MHz)	Power Density (dBm/MHz)	Duty Cycle Factor(dB)	Report Power Density (dBm/MHz)	Limit (dBm/MHz)	Verdict
11A	36	5180	-3.23	0	-3.23	11	Pass
	40	5200	-3.19	0	-3.19		Pass
	48	5240	-2.42	0	-2.42		Pass
11N20 SISO	36	5180	-3.66	0	-3.66	11	Pass
	40	5200	-2.84	0	-2.84		Pass
	48	5240	-2.57	0	-2.57		Pass
11N40 SISO	38	5190	-5.19	0	-5.19	11	Pass
	46	5230	-4.97	0	-4.97		Pass
11AC2 0 SISO	36	5180	-3.11	0	-3.11	11	Pass
	40	5200	-3.05	0	-3.05		Pass
	48	5240	-2.52	0	-2.52		Pass
11AC4 0 SISO	38	5190	-5.38	0	-5.38	11	Pass
	46	5230	-3.97	0	-3.97		Pass
11AC8 0 SISO	42	5210	-6.07	0	-6.07	11	Pass

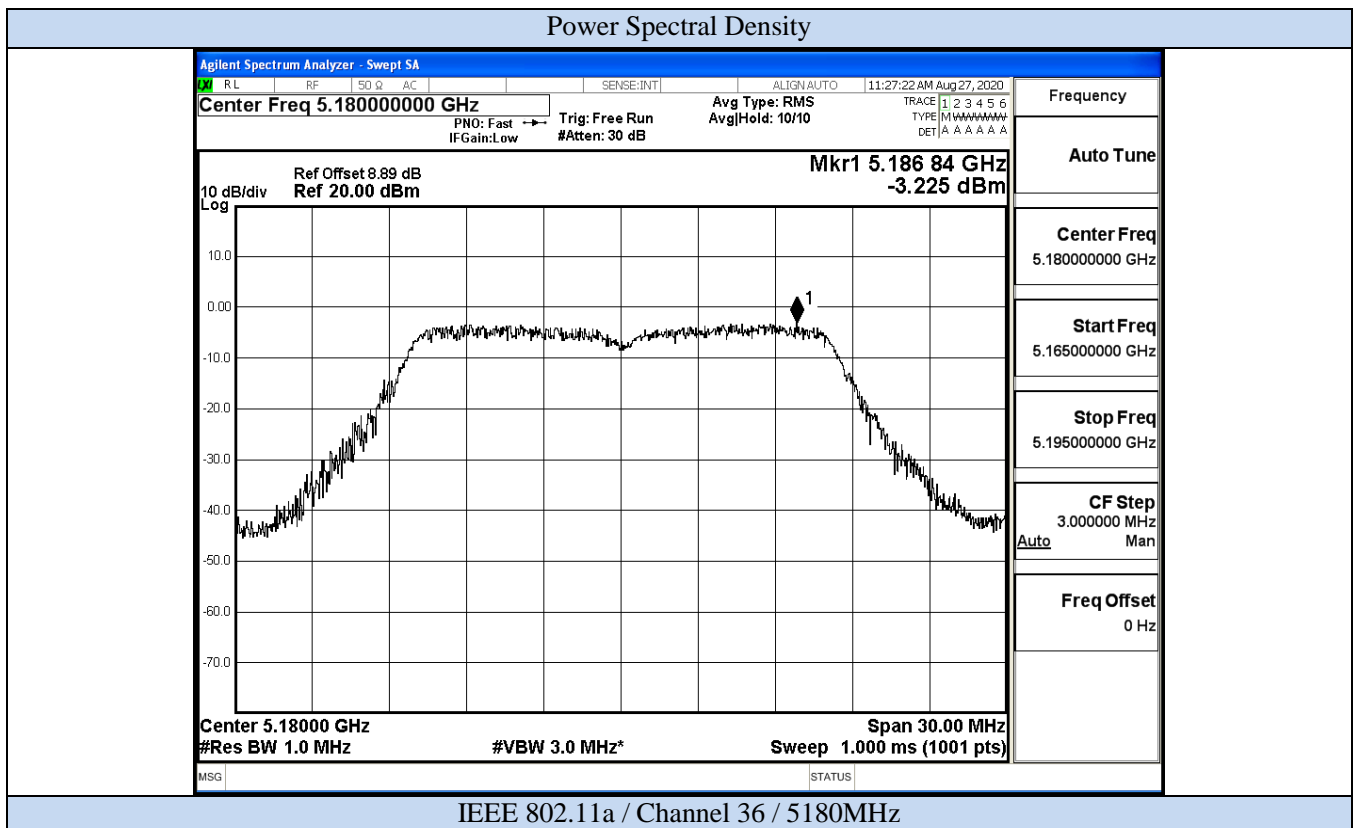
ANT2

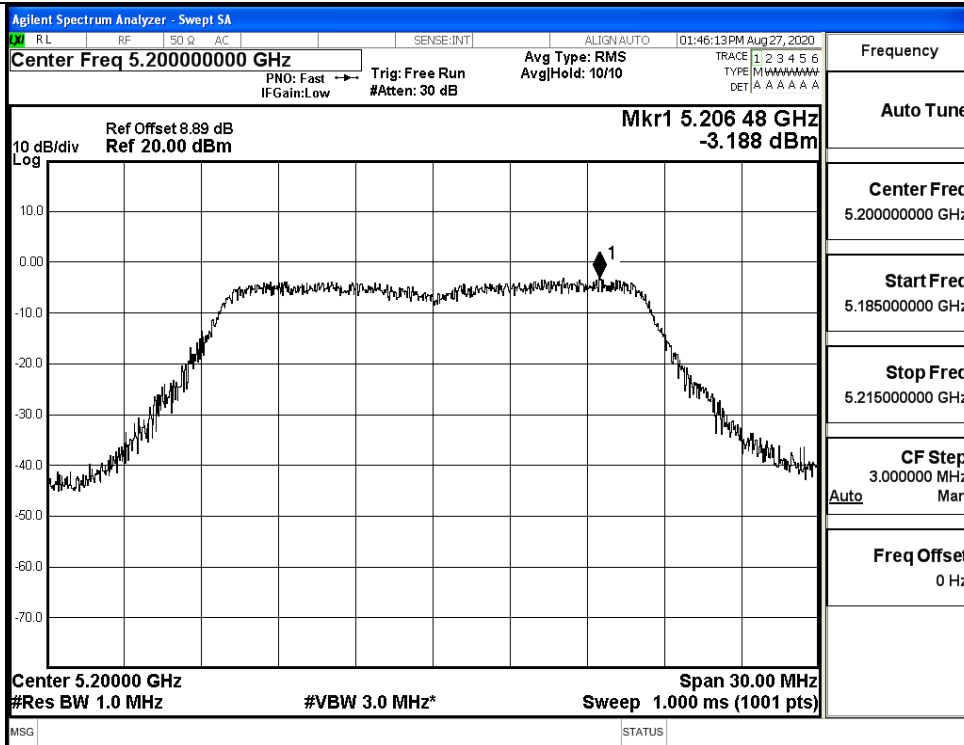
Test Mode	Channel	Frequency (MHz)	Power Density (dBm/MHz)	Duty Cycle Factor(dB)	Report Power Density (dBm/MHz)	Limit (dBm/MHz)	Verdict
11A	36	5180	-2.85	0	-2.85	11	Pass
	40	5200	-2.68	0	-2.68		Pass
	48	5240	-2.21	0	-2.21		Pass
11N20 SISO	36	5180	-1.23	0	-1.23	11	Pass
	40	5200	-1.73	0	-1.73		Pass
	48	5240	-1.92	0	-1.92		Pass
11N40 SISO	38	5190	-4.84	0	-4.84	11	Pass
	46	5230	-5.11	0	-5.11		Pass
11AC2 0 SISO	36	5180	-3.54	0	-3.54	11	Pass
	40	5200	-3.07	0	-3.07		Pass
	48	5240	-2.09	0	-2.09		Pass
11AC4 0 SISO	38	5190	-6.72	0	-6.72	11	Pass
	46	5230	-6.41	0	-6.41		Pass
11AC8 0 SISO	42	5210	-8.78	0	-8.78	11	Pass

ANT1+ANT2:

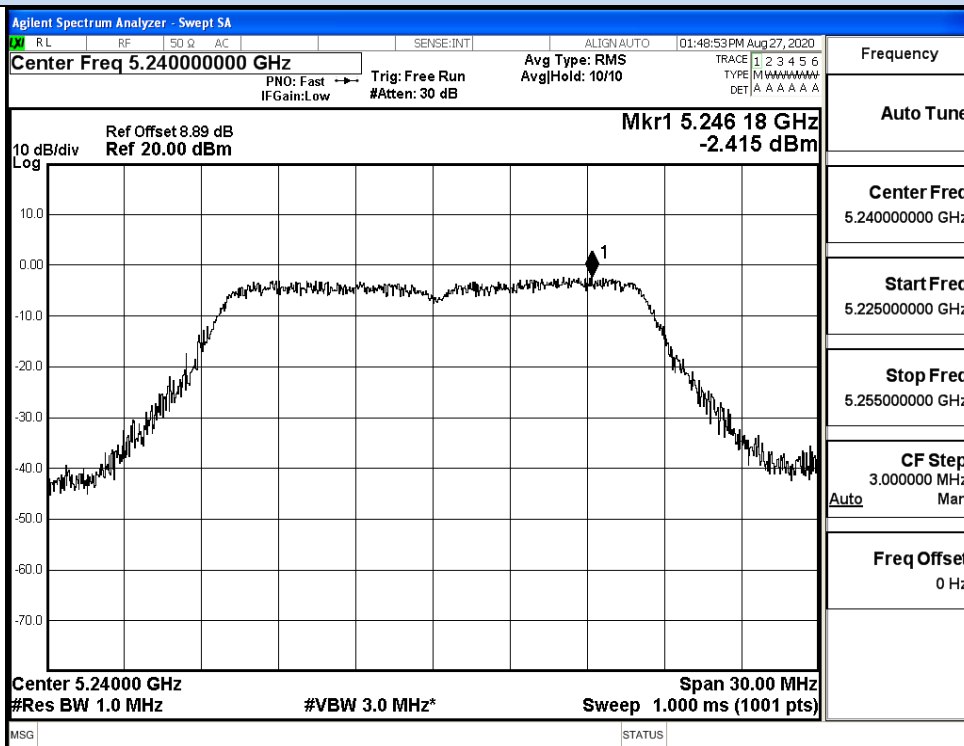
Test Mode	Channel	Frequency (MHz)	Duty Cycle Factor (dB)	Report Power Density (dBm/MHz)			Limit (dBm)
				Ant1	Ant2	Sum	
11N20 MIMO	36	5180	0	-3.66	-1.23	0.73	7.99
	40	5200	0	-2.84	-1.73	0.76	
	48	5240	0	-2.57	-1.92	0.78	
11N40 MIMO	38	5190	0	-5.19	-4.84	-2.00	7.99
	46	5230	0	-4.97	-5.11	-2.03	
11AC20 MIMO	36	5180	0	-3.11	-3.54	-0.31	7.99
	40	5200	0	-3.05	-3.07	-0.05	
	48	5240	0	-2.52	-2.09	0.71	
11AC40 MIMO	38	5190	0	-5.38	-6.72	-2.99	7.99
	46	5230	0	-3.97	-6.41	-2.01	
11AC80 MIMO	42	5210	0	-6.07	-8.78	-4.21	7.99

ANT 1



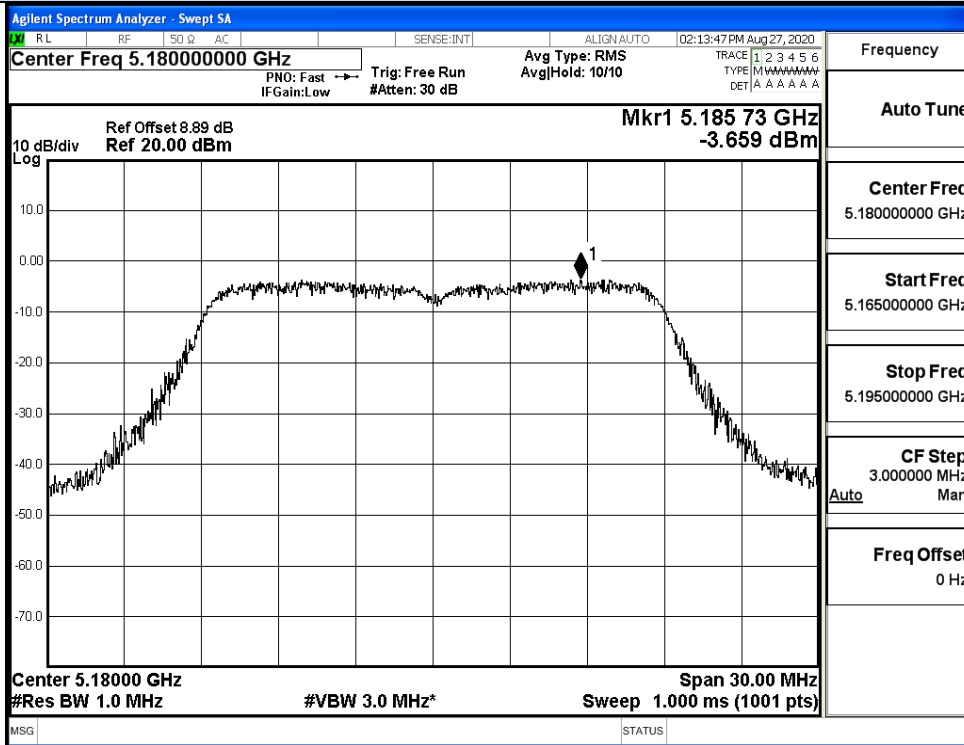


IEEE 802.11na / Channel 40 / 5200MHz

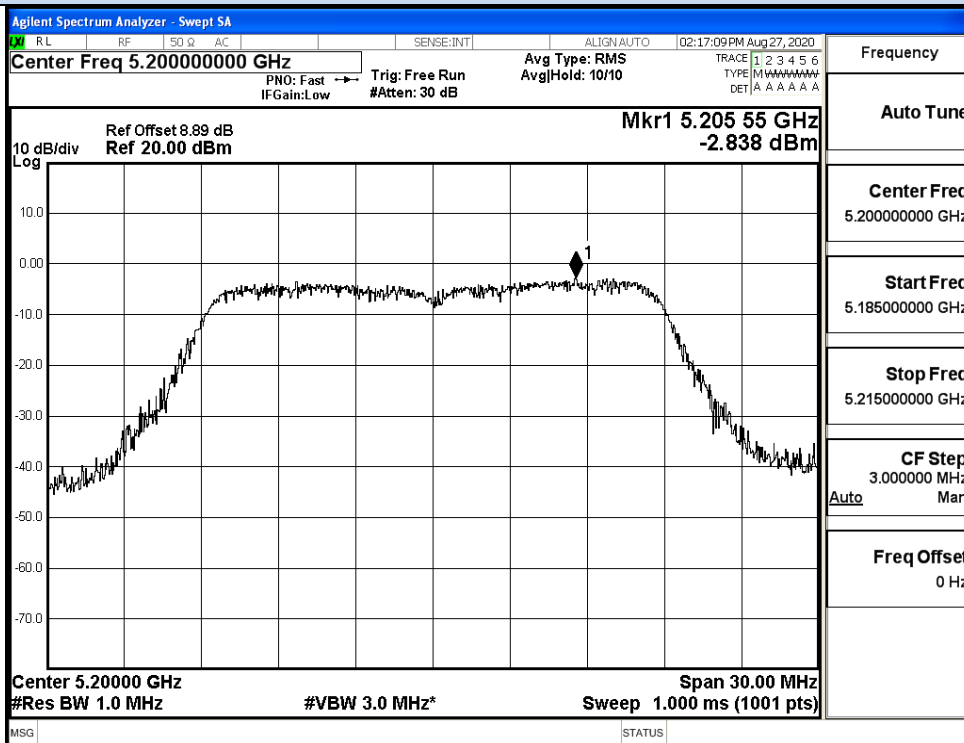


IEEE 802.11na / Channel 48 / 5240MHz

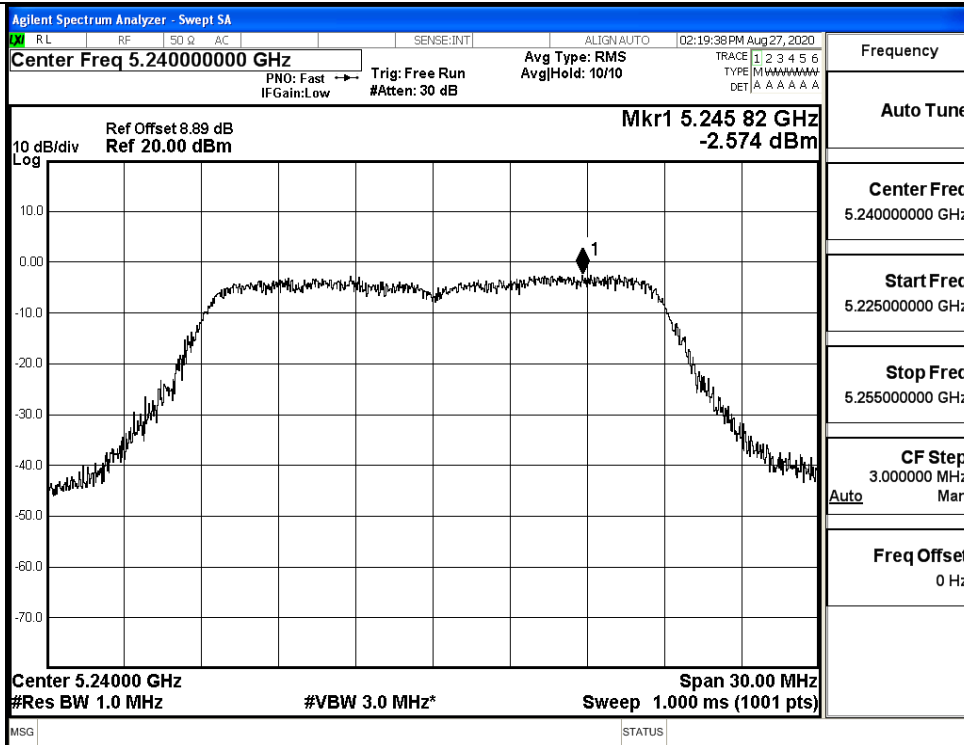
Power Spectral Density



IEEE 802.11n20 / Channel 36 / 5180MHz

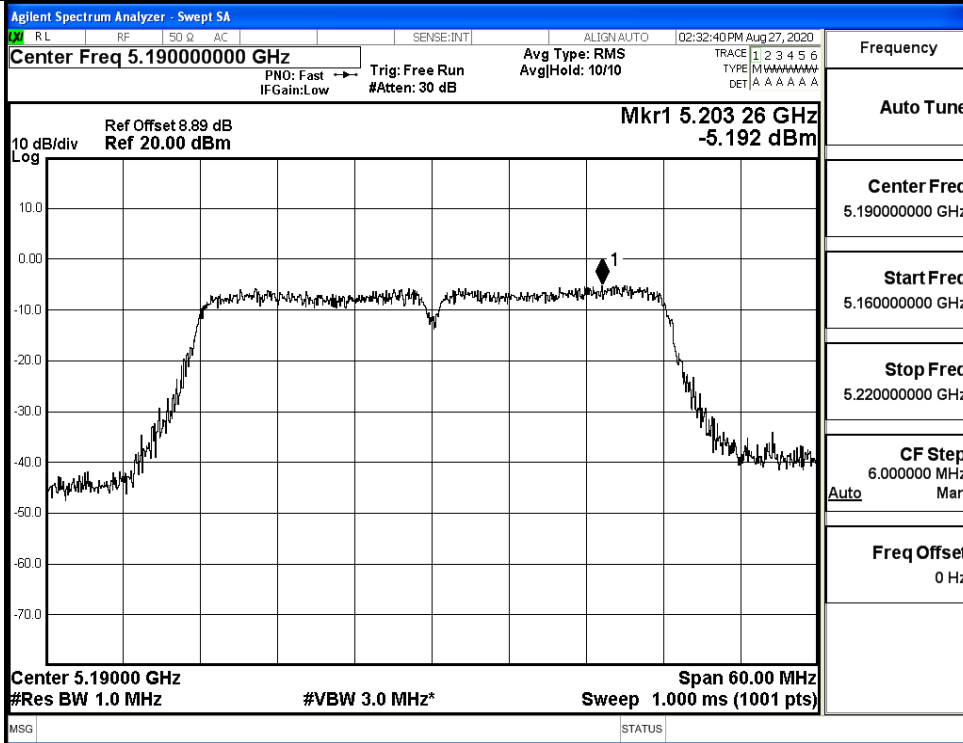


IEEE 802.11n20 / Channel 40 / 5200MHz

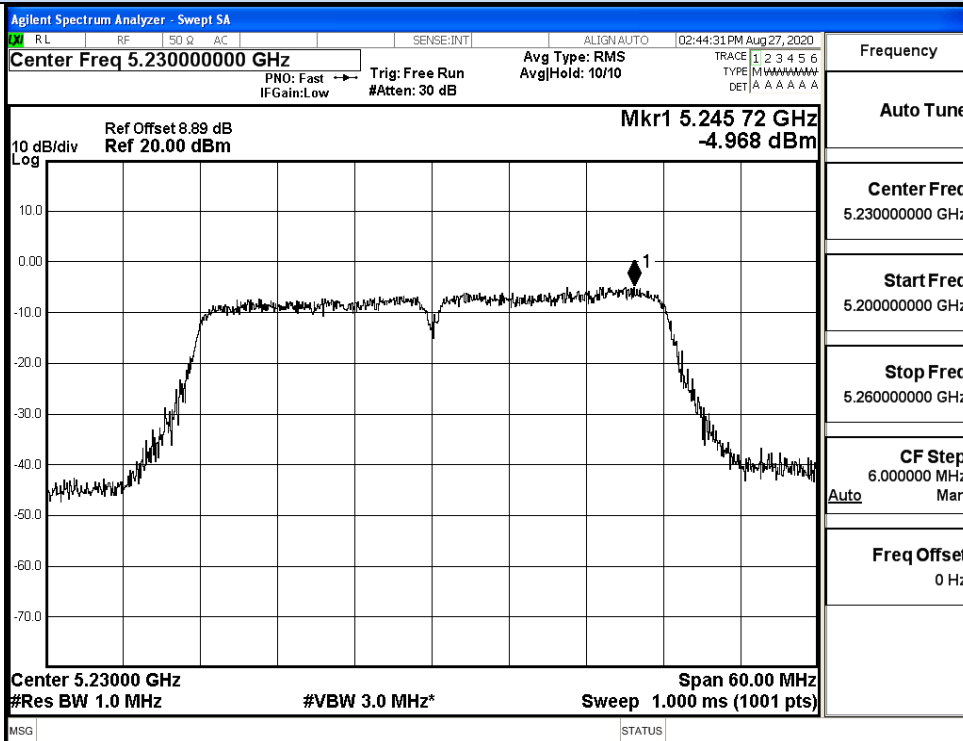


IEEE 802.11n20 / Channel 48 / 5240MHz

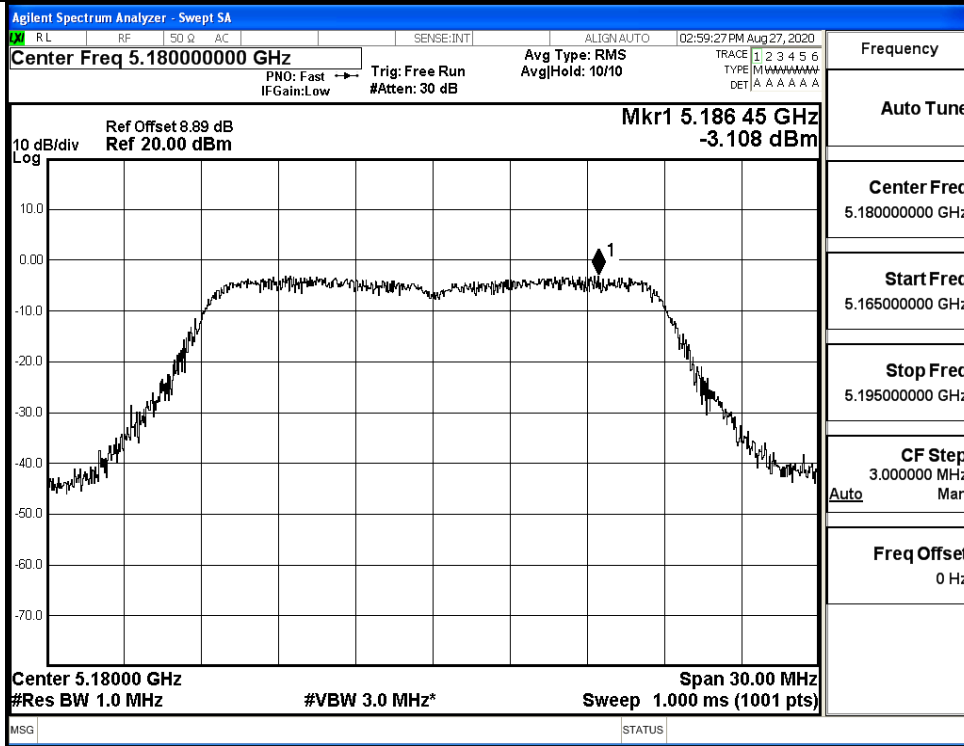
Power Spectral Density



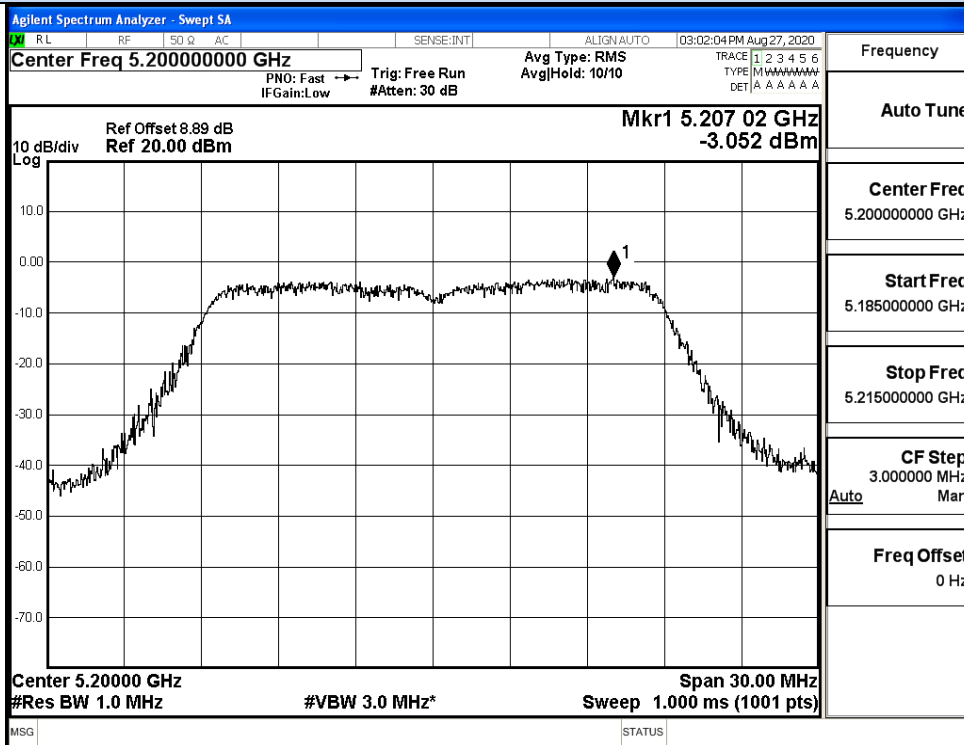
IEEE 802.11n40 / Channel 38 / 5190MHz



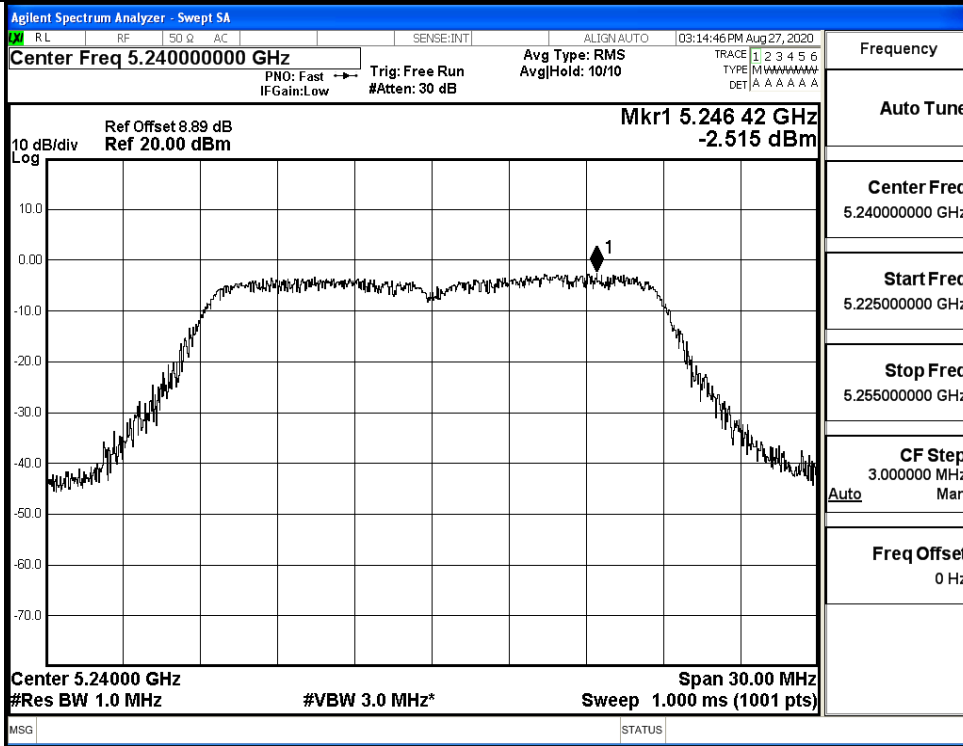
IEEE 802.11n40 / Channel 46 / 5230MHz



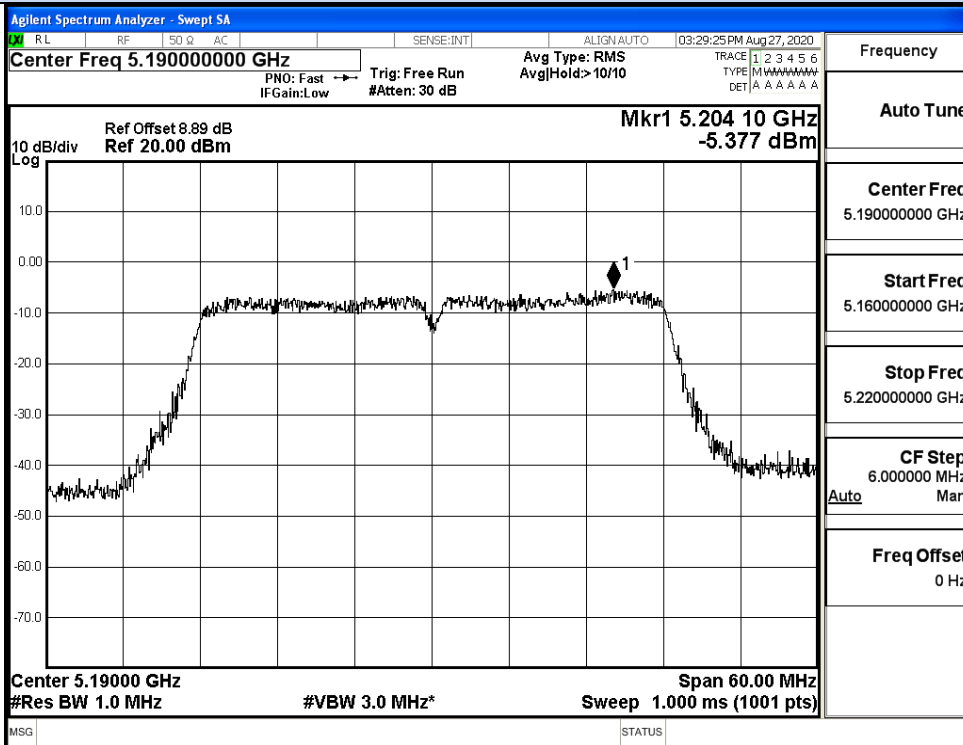
IEEE 802.11ac20 / Channel 36 / 5180MHz



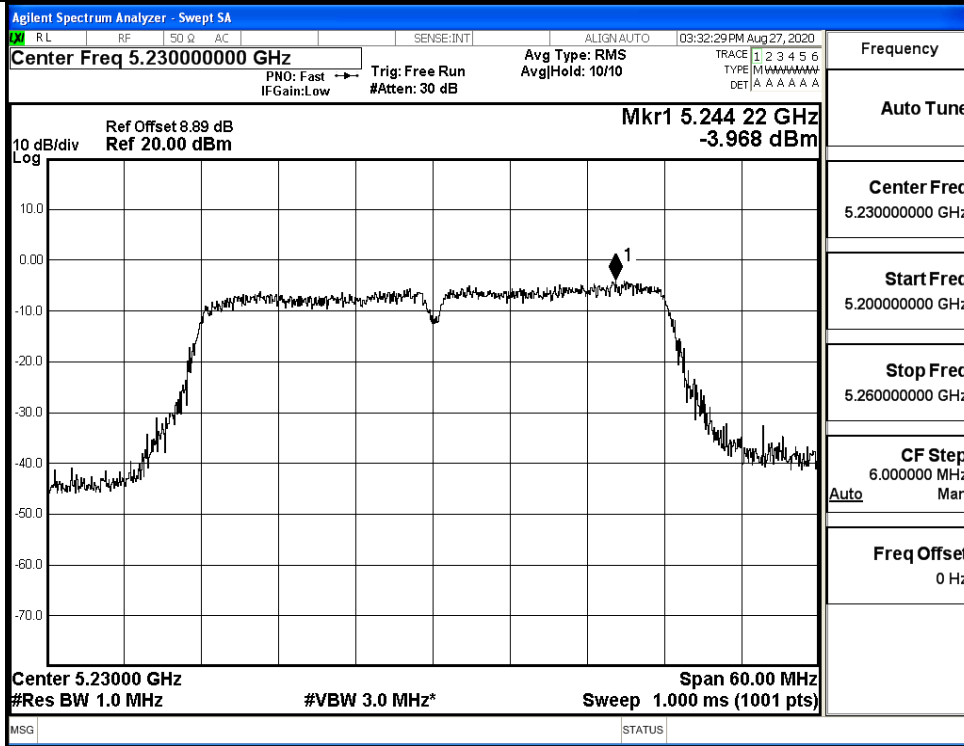
IEEE 802.11ac20 / Channel 40 / 5200MHz



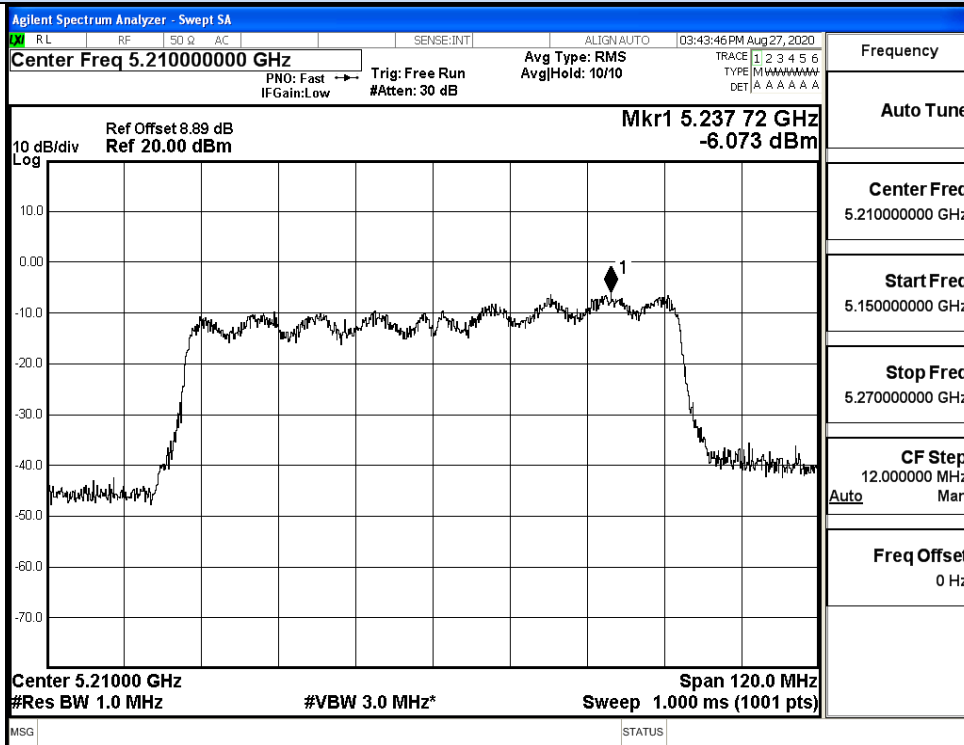
IEEE 802.11ac20 / Channel 48 / 5240MHz



IEEE 802.11ac40 / Channel 38 / 5190MHz

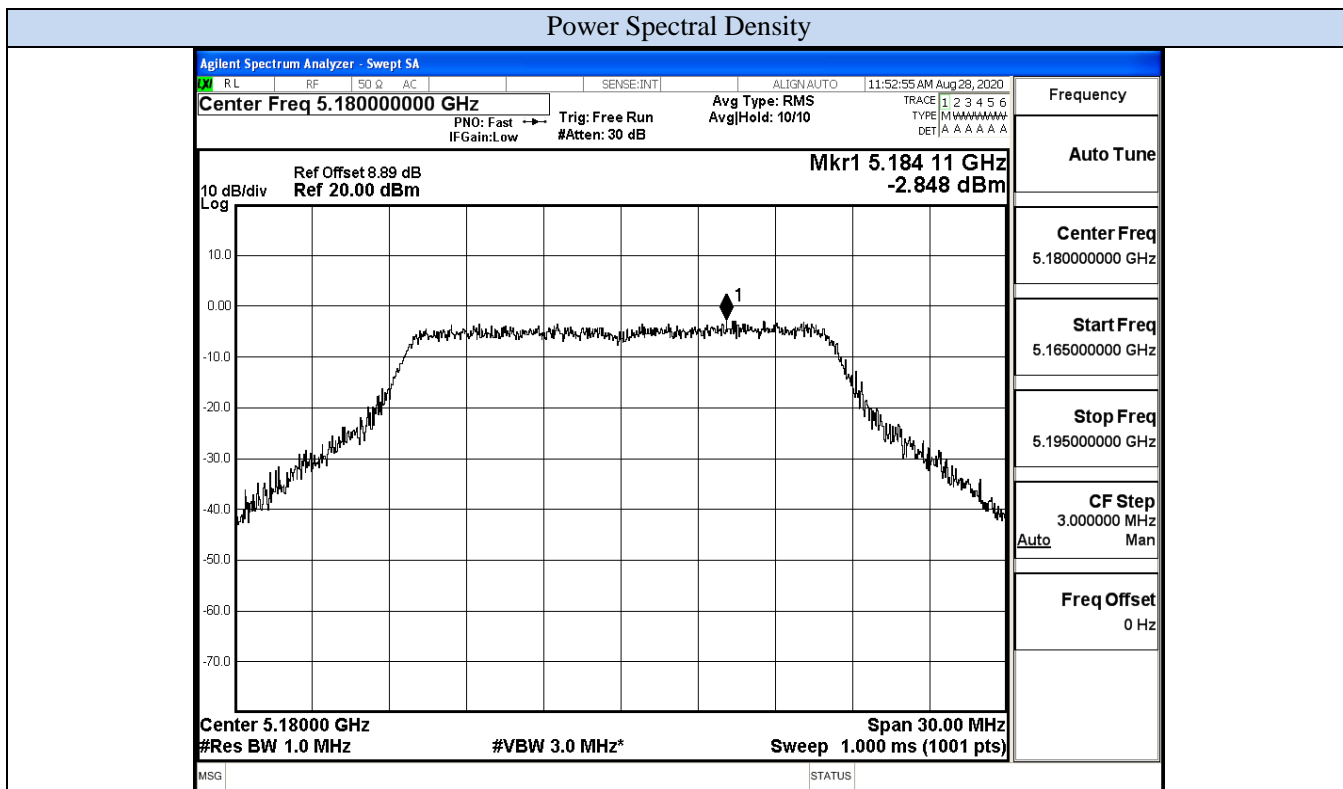


IEEE 802.11ac40 / Channel 46 / 5230MHz

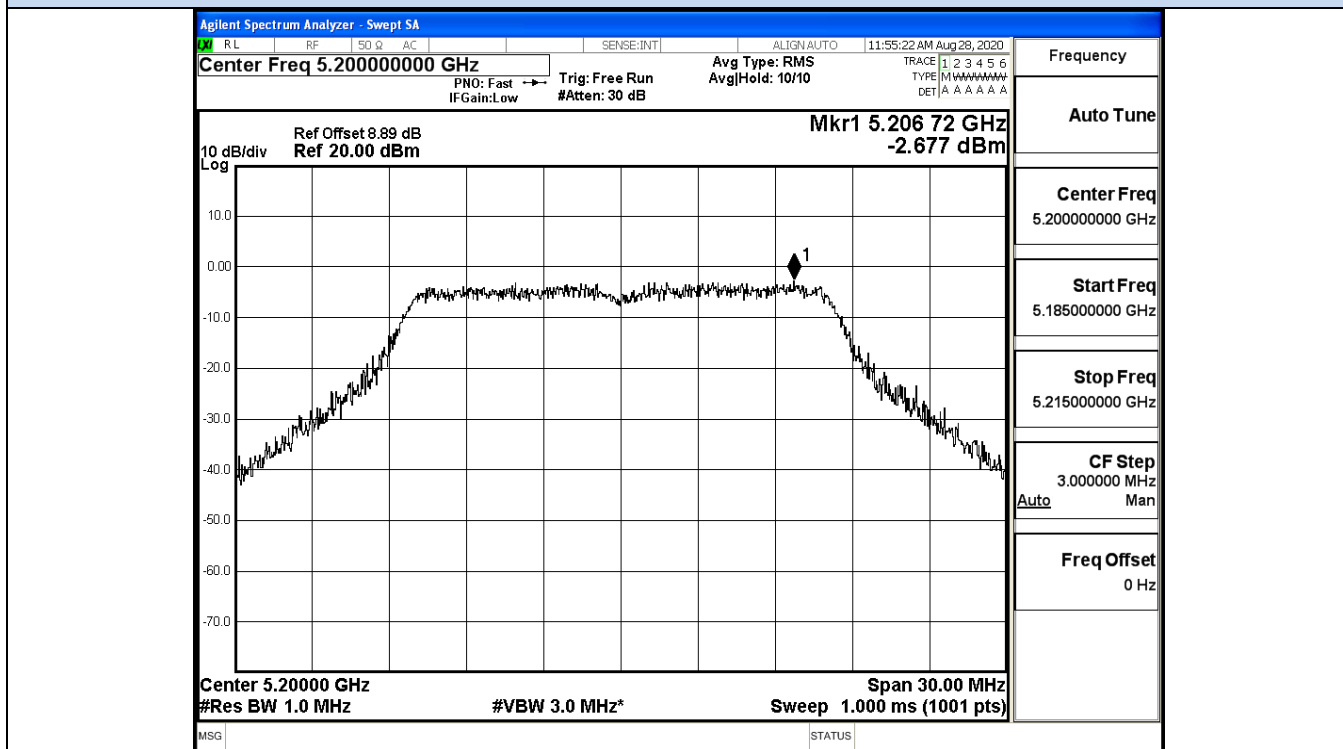


IEEE 802.11ac80 / Channel 42 / 5210MHz

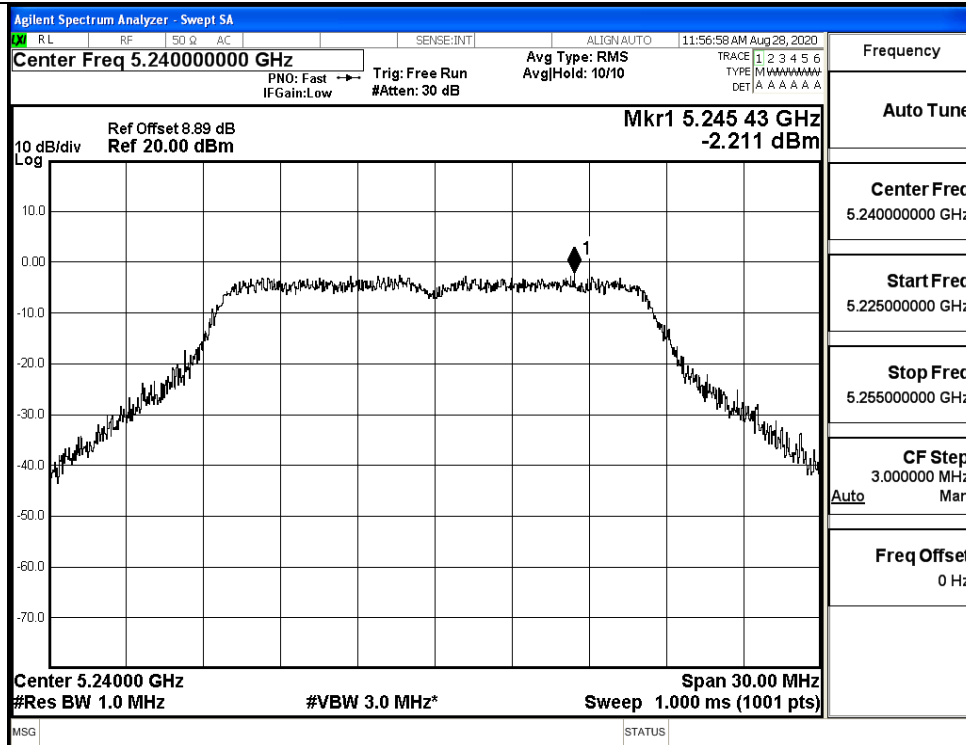
ANT2



IEEE 802.11a / Channel 36 / 5180MHz

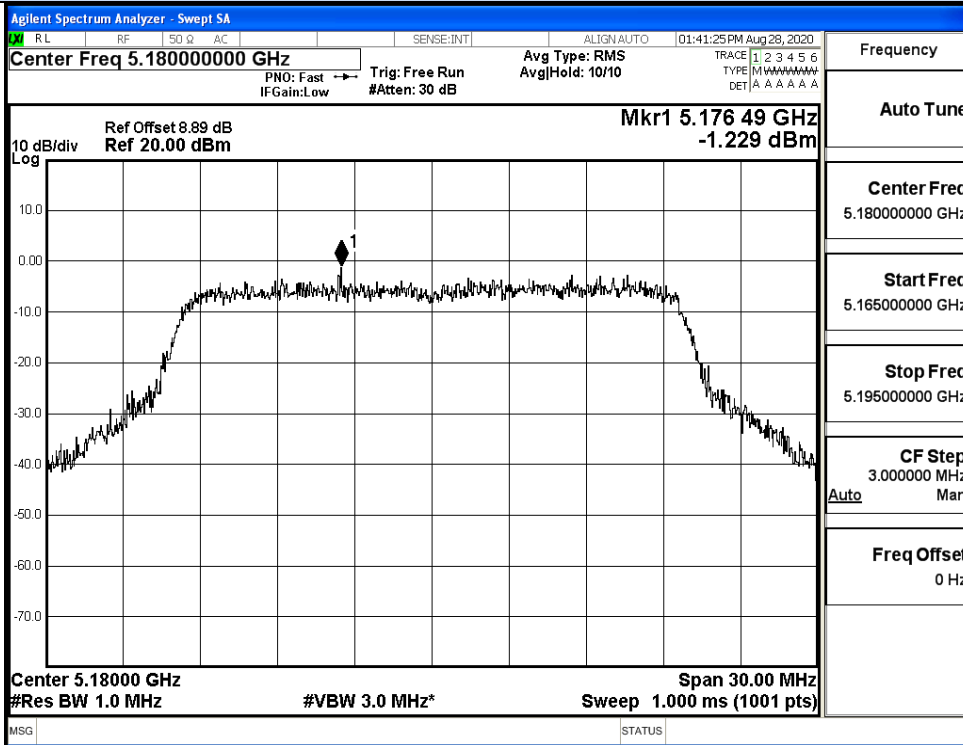


IEEE 802.11na / Channel 40 / 5200MHz

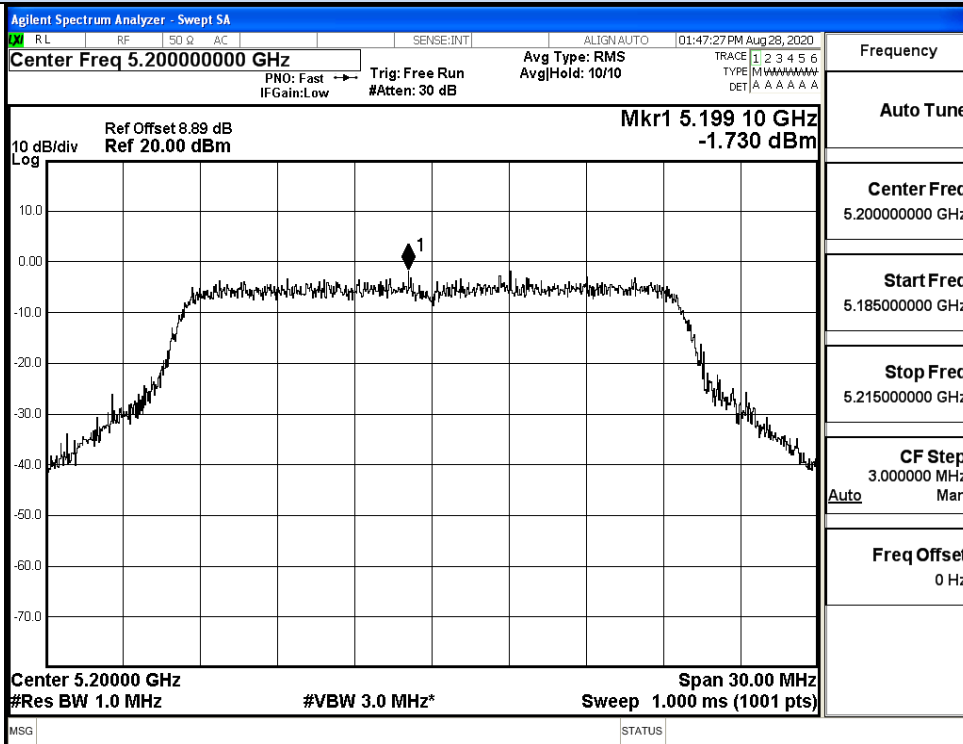


IEEE 802.11na / Channel 48 / 5240MHz

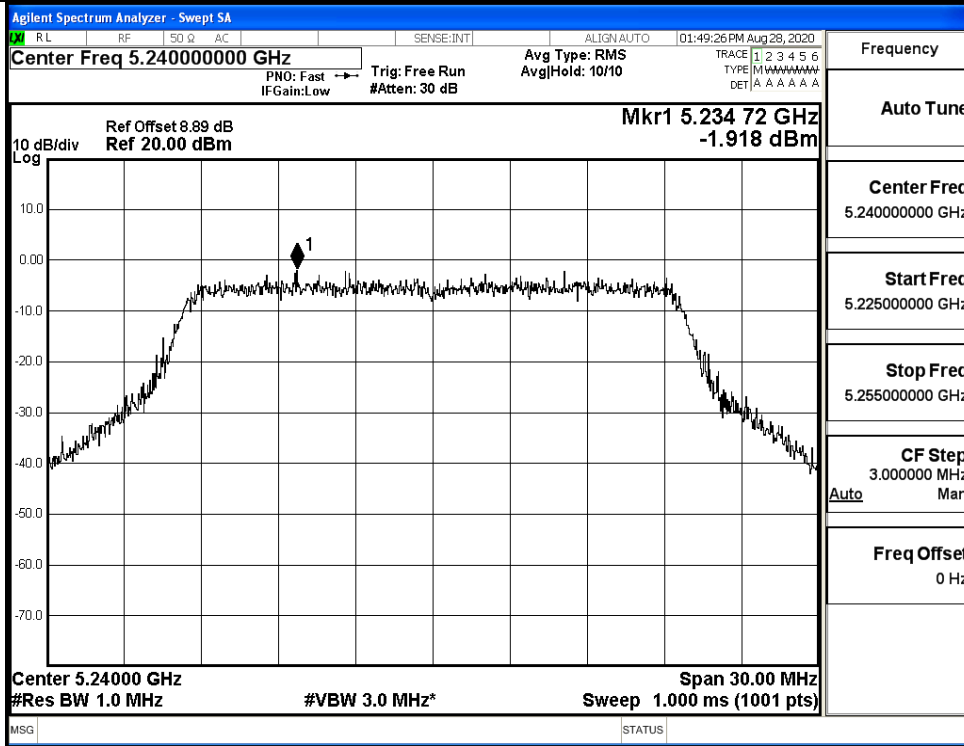
Power Spectral Density



IEEE 802.11n20 / Channel 36 / 5180MHz

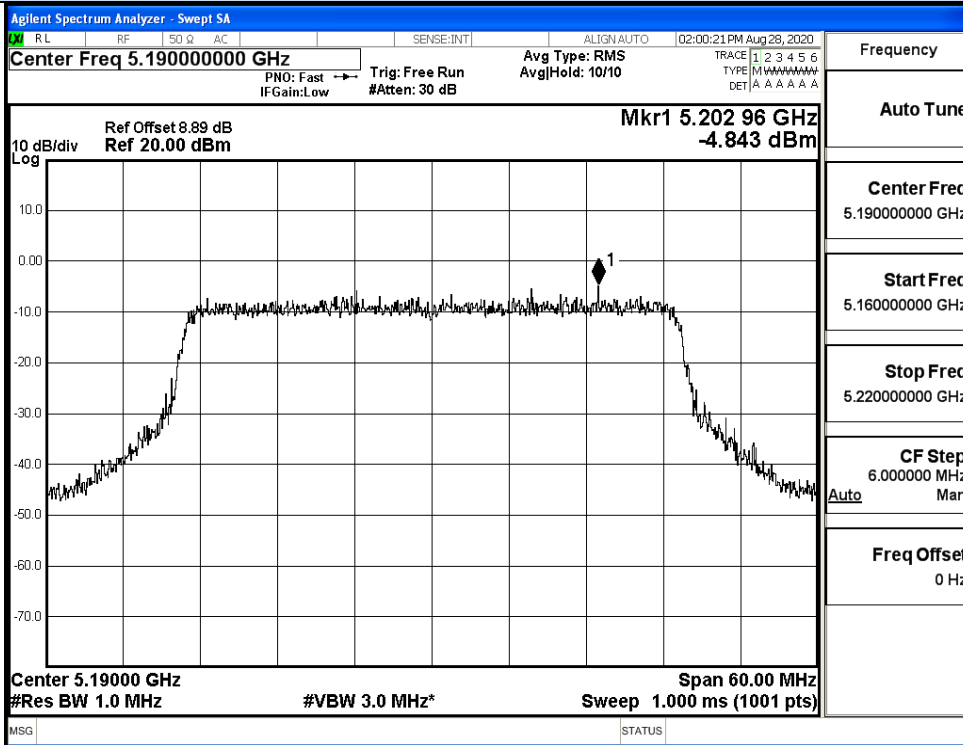


IEEE 802.11n20 / Channel 40 / 5200MHz

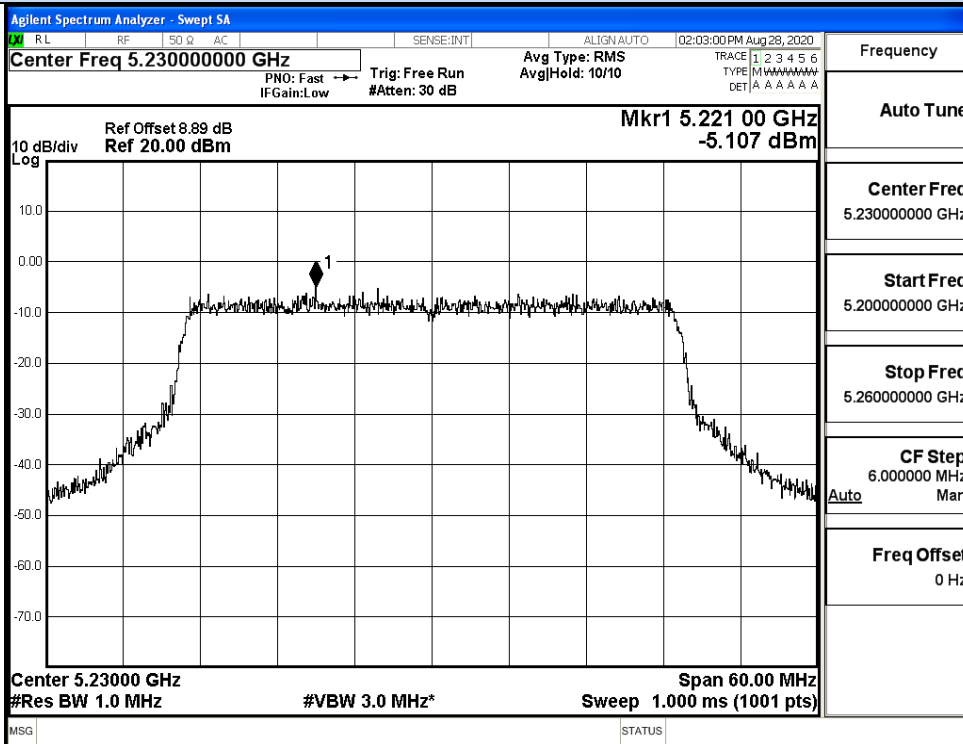


IEEE 802.11n20 / Channel 48 / 5240MHz

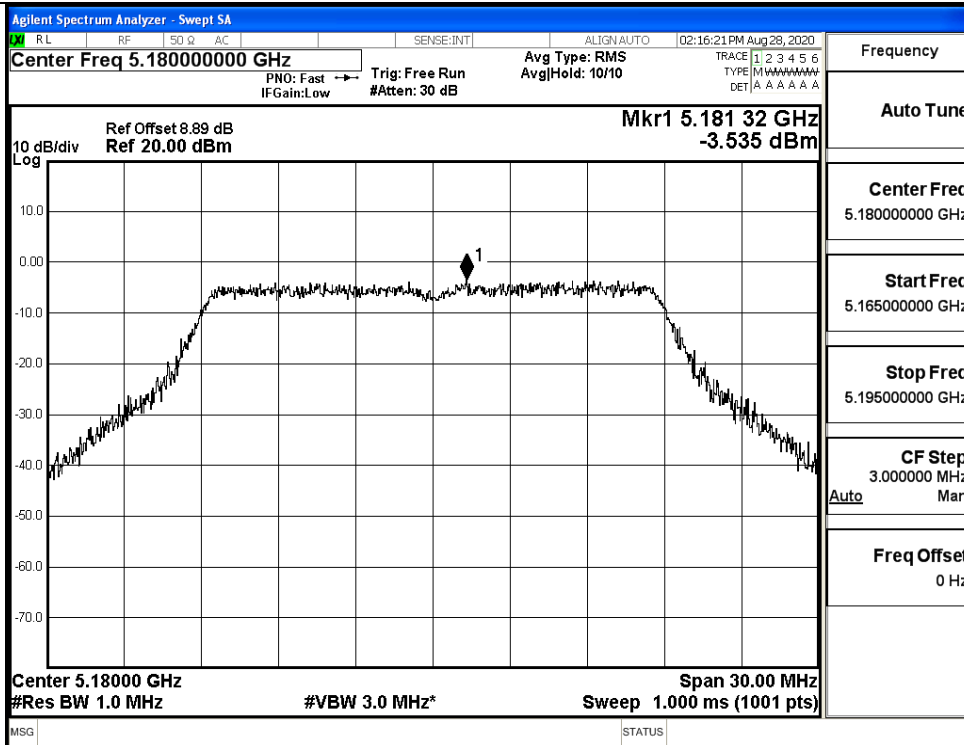
Power Spectral Density



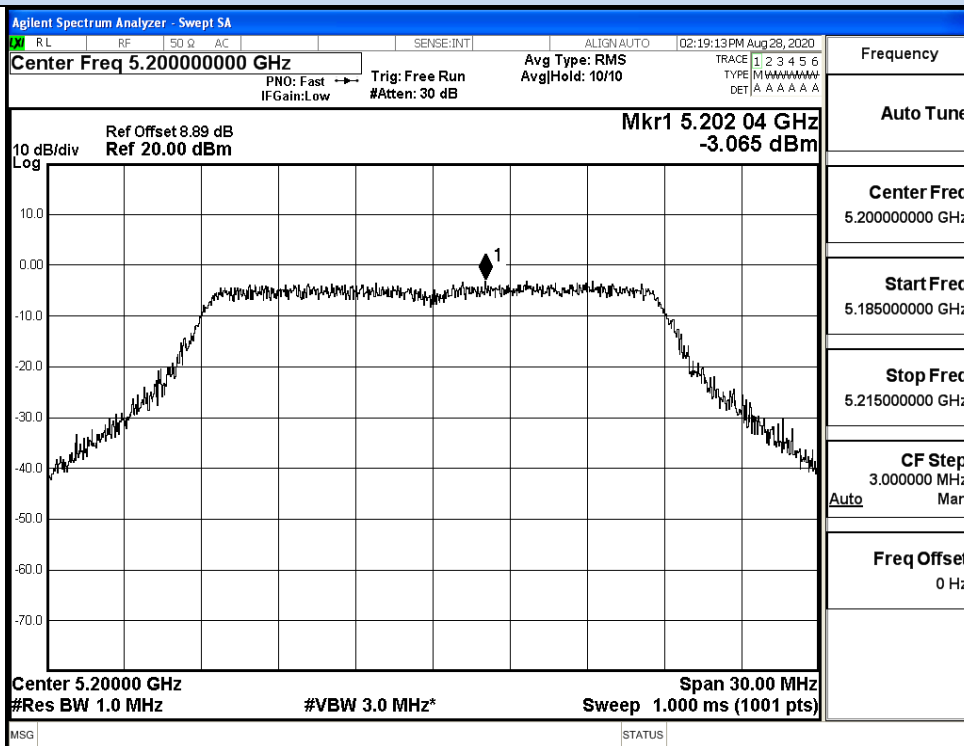
IEEE 802.11n40 / Channel 38 / 5190MHz



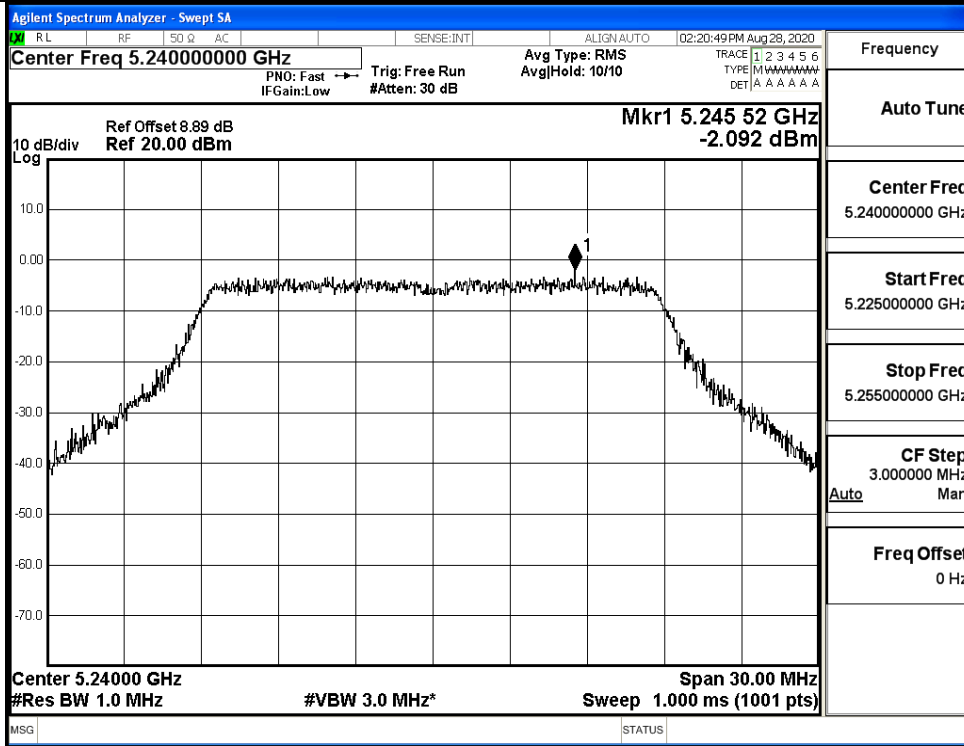
IEEE 802.11n40 / Channel 46 / 5230MHz



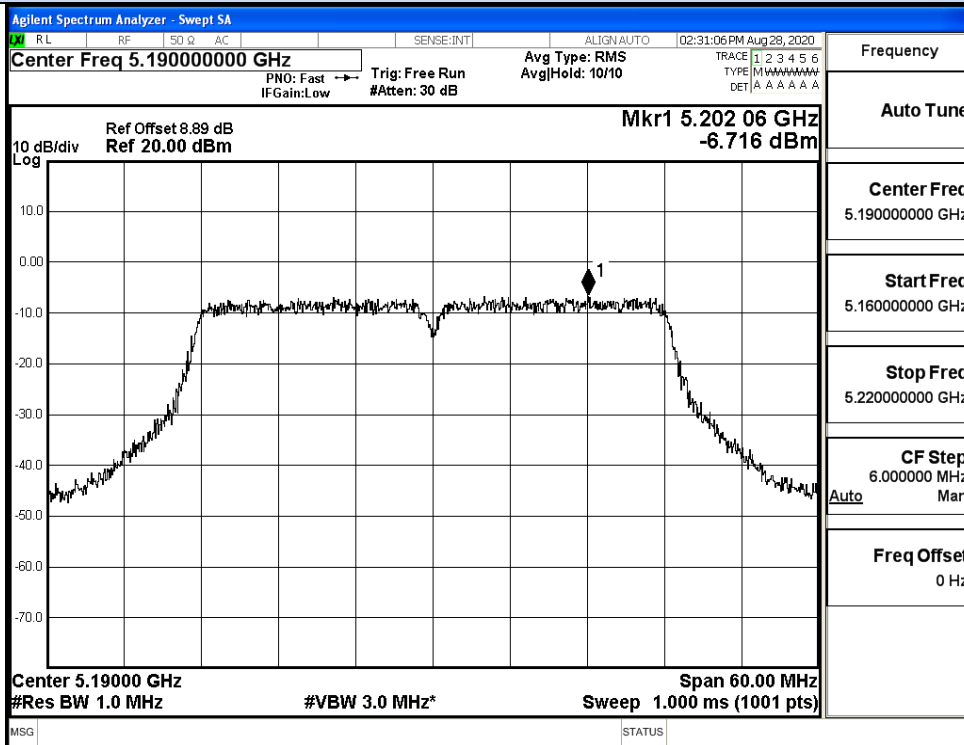
IEEE 802.11ac20 / Channel 36 / 5180MHz



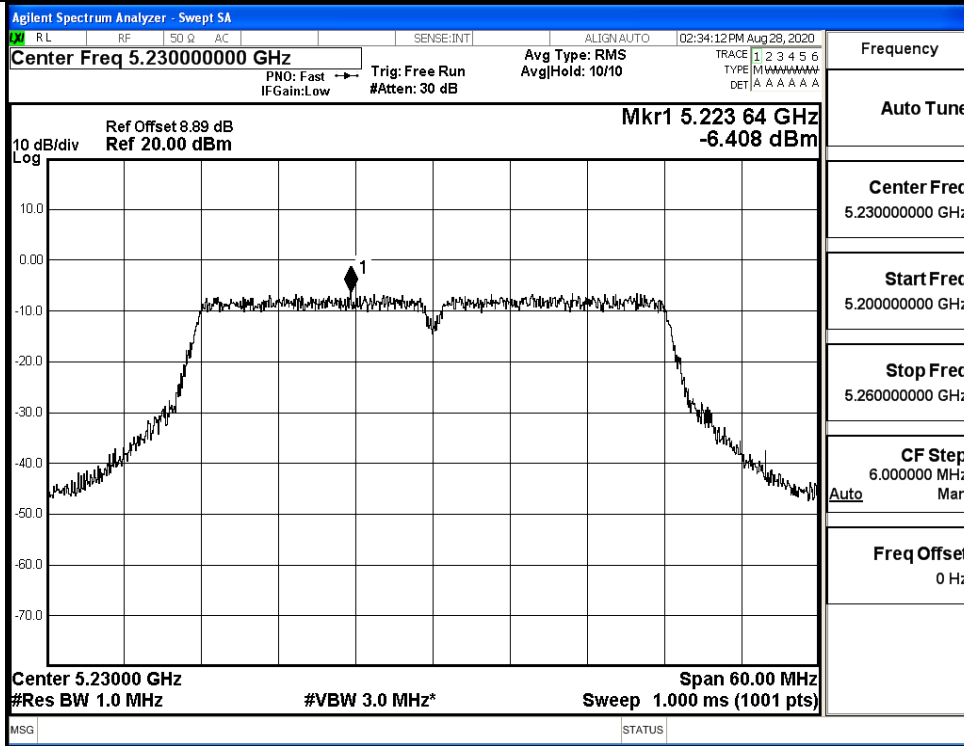
IEEE 802.11ac20 / Channel 40 / 5200MHz



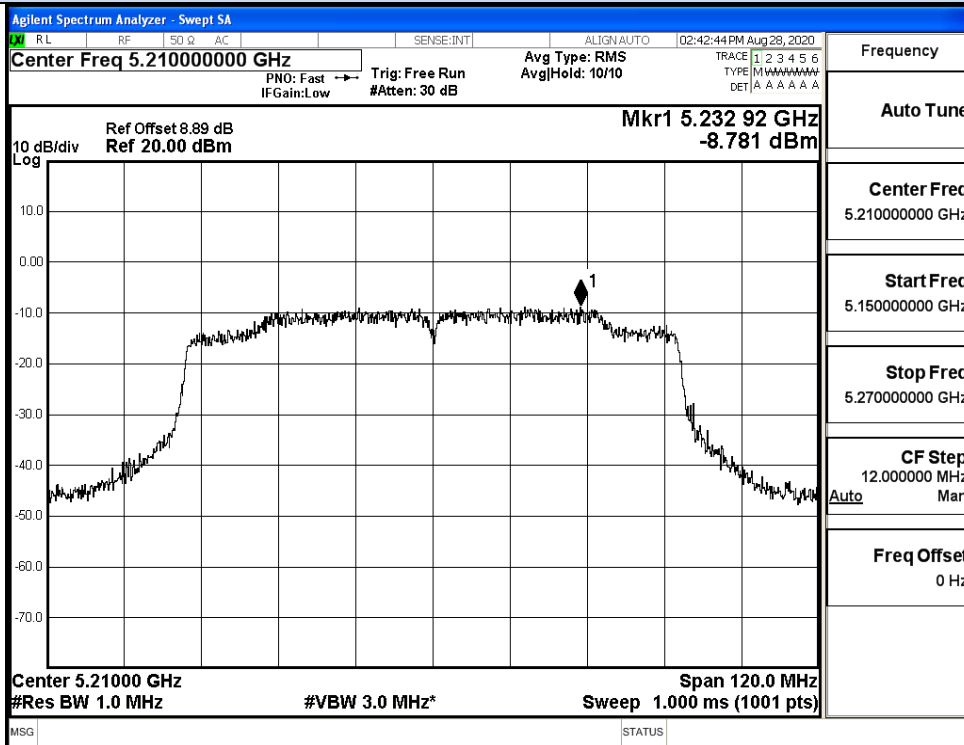
IEEE 802.11ac20 / Channel 48 / 5240MHz



IEEE 802.11ac40 / Channel 38 / 5190MHz



IEEE 802.11ac40 / Channel 46 / 5230MHz



IEEE 802.11ac80 / Channel 42 / 5210MHz

D.4 Emission Bandwidth**ANT1**

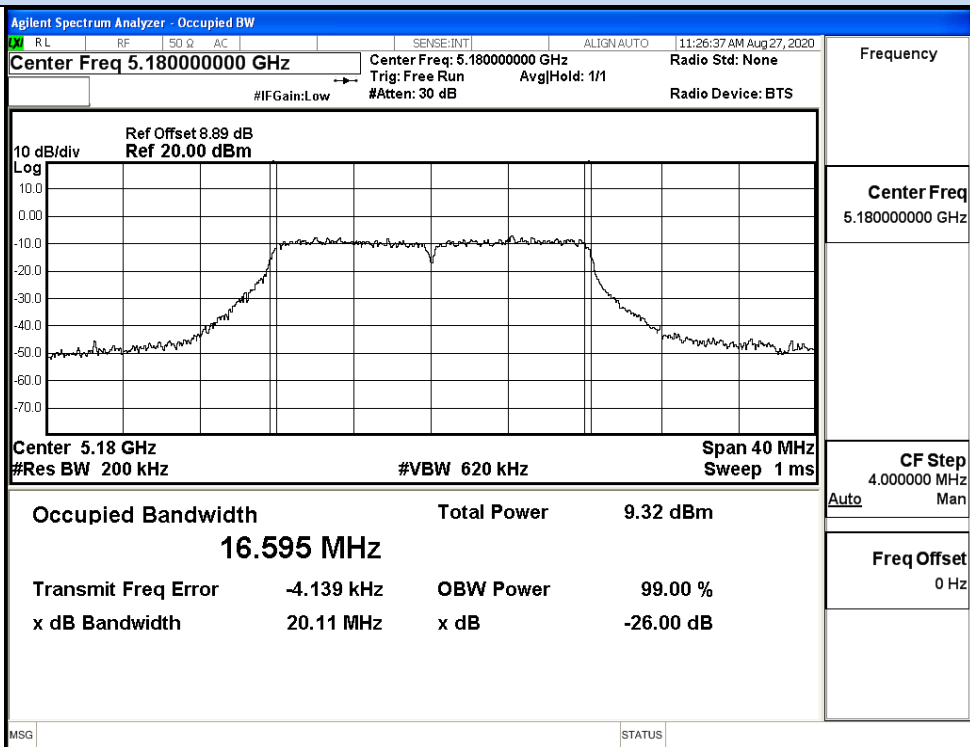
Test Mode	Channel	Frequency (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
11A	36	5180	20.11	No Limit	Pass
	40	5200	20.30		Pass
	48	5240	24.46		Pass
11N20 SISO	36	5180	20.87	No Limit	Pass
	40	5200	20.99		Pass
	48	5240	20.89		Pass
11N40 SISO	38	5190	41.67	No Limit	Pass
	46	5230	42.07		Pass
11AC20 SISO	36	5180	21.22	No Limi	Pass
	40	5200	20.91		Pass
	48	5240	21.30		Pass
11AC40 SISO	38	5190	41.11	No Limi	Pass
	46	5230	43.15		Pass
11AC80 SISO	42	5210	81.63	No Limi	Pass

ANT2

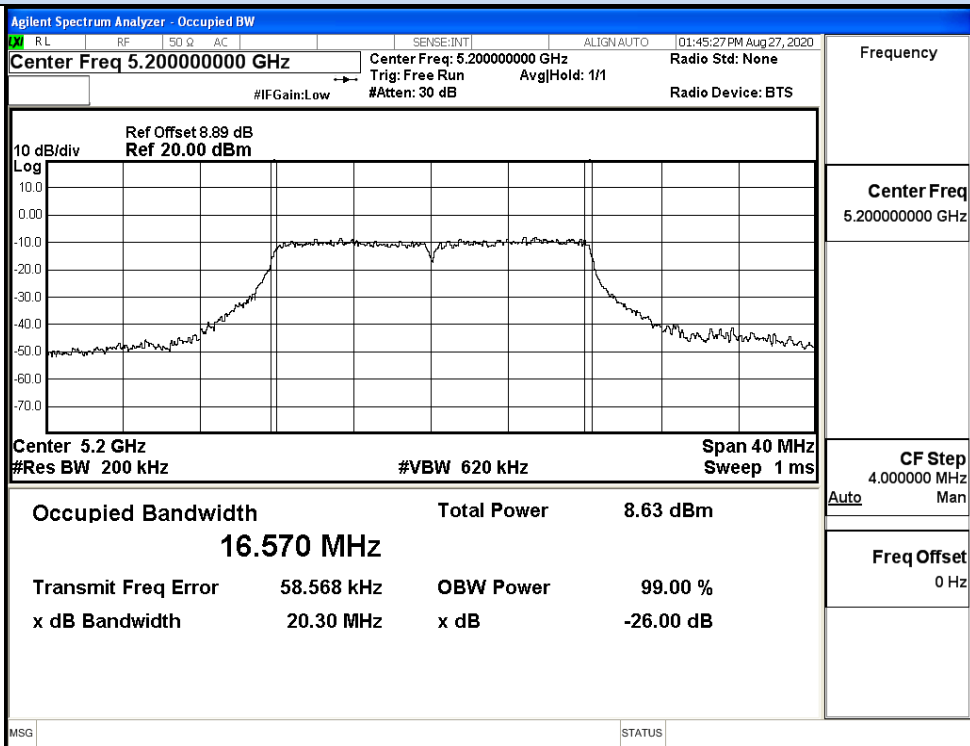
Test Mode	Channel	Frequency (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
11A	36	5180	23.55	No Limit	Pass
	40	5200	23.79		Pass
	48	5240	23.28		Pass
11N20 SISO	36	5180	23.31	No Limit	Pass
	40	5200	23.25		Pass
	48	5240	24.15		Pass
11N40 SISO	38	5190	42.63	No Limit	Pass
	46	5230	43.27		Pass
11AC20 SISO	36	5180	23.67	No Limi	Pass
	40	5200	24.37		Pass
	48	5240	23.58		Pass
11AC40 SISO	38	5190	44.56	No Limi	Pass
	46	5230	44.55		Pass
11AC80 SISO	42	5210	84.85	No Limi	Pass

ANT1

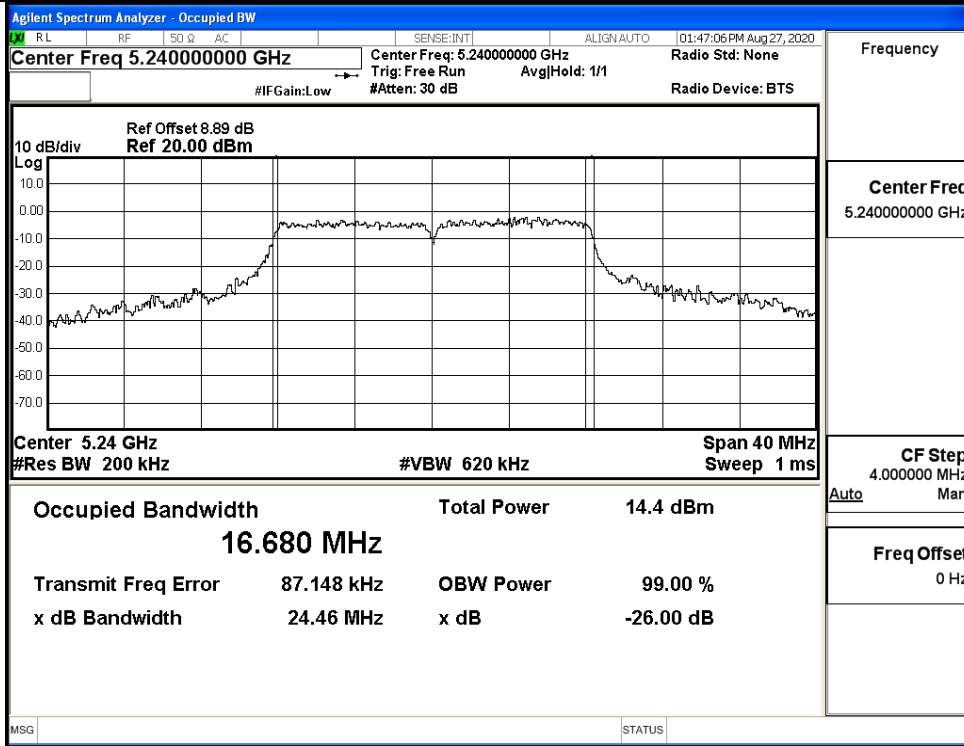
26dB Bandwidth



IEEE 802.11a / Channel 36 / 5180MHz



IEEE 802.11a / Channel 40 / 5200MHz



IEEE 802.11a / Channel 48 / 5240MHz

26dB Bandwidth

Agilent Spectrum Analyzer - Occupied BW

RL	RF	SO Q	AC	SENSE:INT	ALIGN:AUTO	02:12:27 PM Aug 27, 2020
Center Freq 5.18000000 GHz				Center Freq: 5.18000000 GHz	Trig: Free Run	Radio Std: None
#IFGain:Low				#Atten: 30 dB	AvgHold: 1/1	
				Radio Device: BTS		

Ref Offset 8.89 dB
Ref 20.00 dBm

Center 5.18 GHz Span 40 MHz
#Res BW 200 kHz #VBW 620 kHz Sweep 1 ms

Occupied Bandwidth	Total Power	6.91 dBm
17.686 MHz		
Transmit Freq Error	75.595 kHz	OBW Power 99.00 %
x dB Bandwidth	20.87 MHz	x dB -26.00 dB

MSG STATUS

IEEE 802.11n20 / Channel 36 / 5180MHz

Agilent Spectrum Analyzer - Occupied BW

RL	RF	SO Q	AC	SENSE:INT	ALIGN:AUTO	02:16:24 PM Aug 27, 2020
Center Freq 5.20000000 GHz				Center Freq: 5.20000000 GHz	Trig: Free Run	Radio Std: None
#IFGain:Low				#Atten: 30 dB	AvgHold: 1/1	
				Radio Device: BTS		

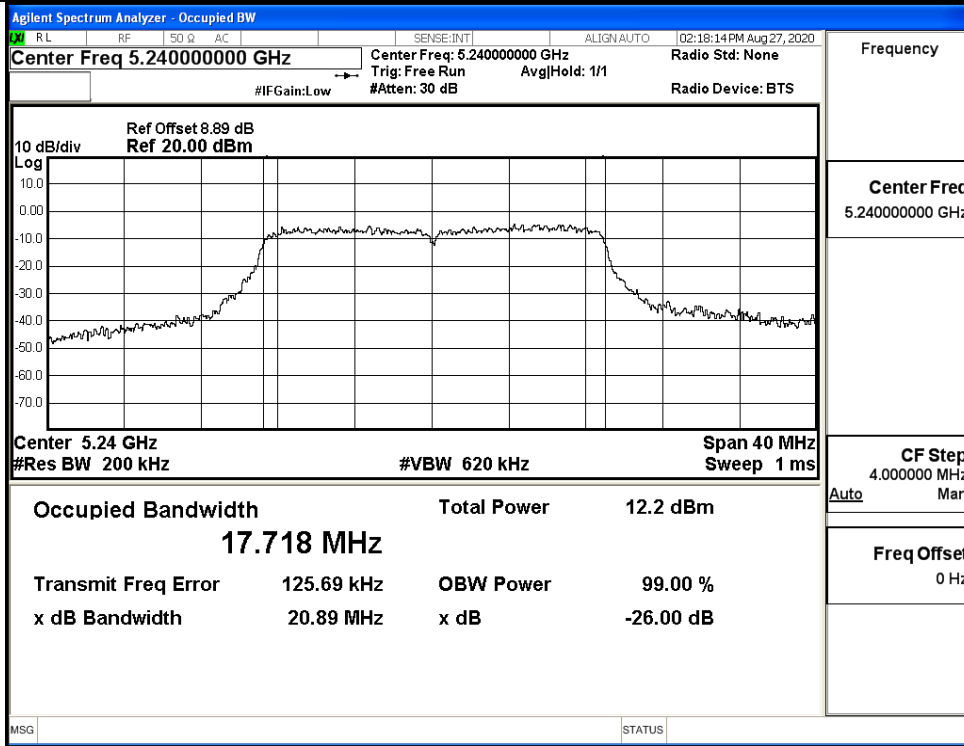
Ref Offset 8.89 dB
Ref 20.00 dBm

Center 5.2 GHz Span 40 MHz
#Res BW 200 kHz #VBW 620 kHz Sweep 1 ms

Occupied Bandwidth	Total Power	8.84 dBm
17.689 MHz		
Transmit Freq Error	125.62 kHz	OBW Power 99.00 %
x dB Bandwidth	20.99 MHz	x dB -26.00 dB

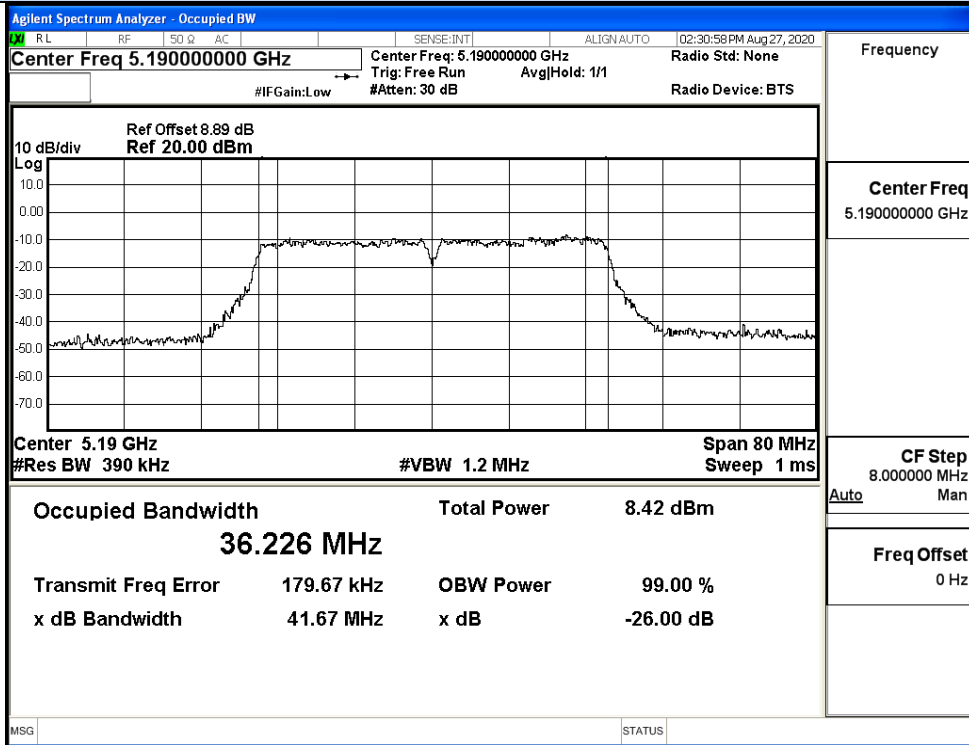
MSG STATUS

IEEE 802.11n20 / Channel 40 / 5200MHz

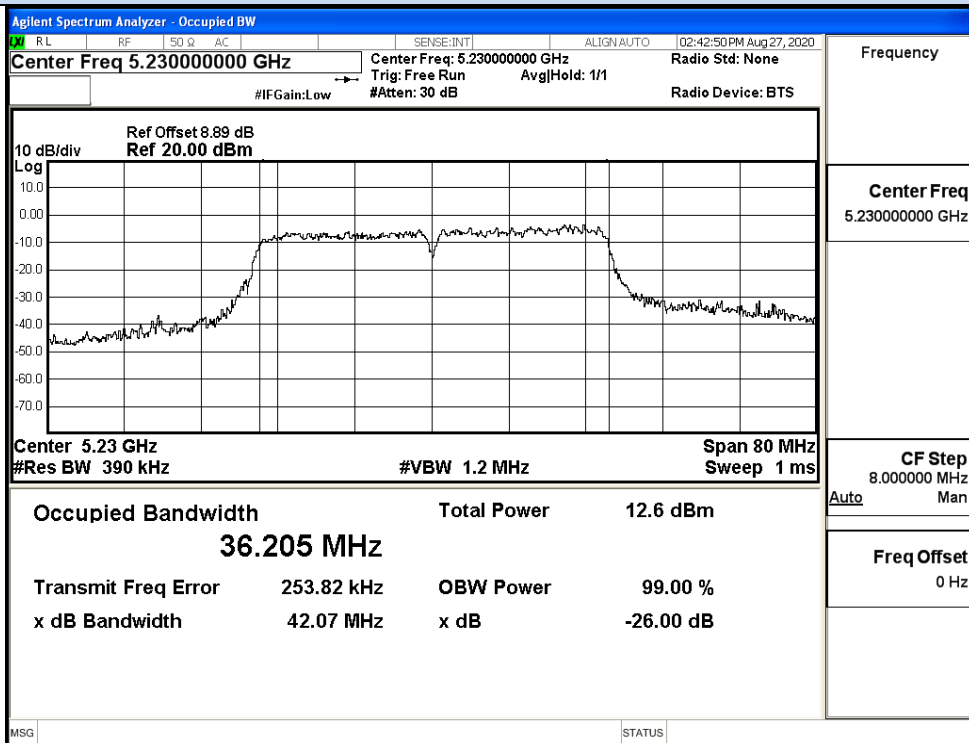


IEEE 802.11n20 / Channel 48 / 5240MHz

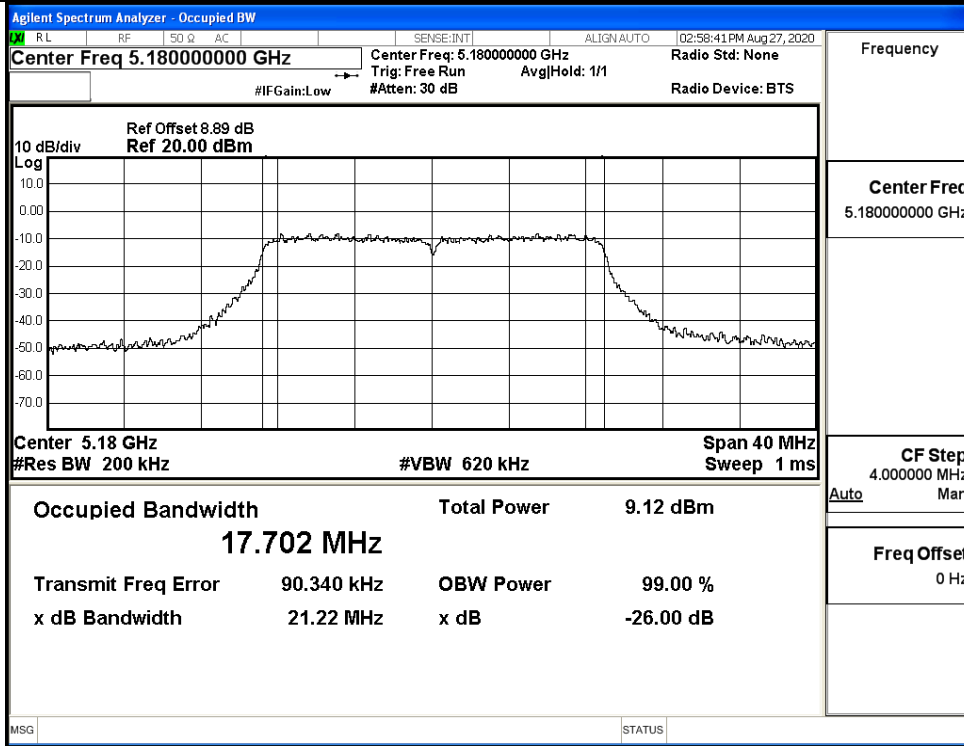
26dB Bandwidth



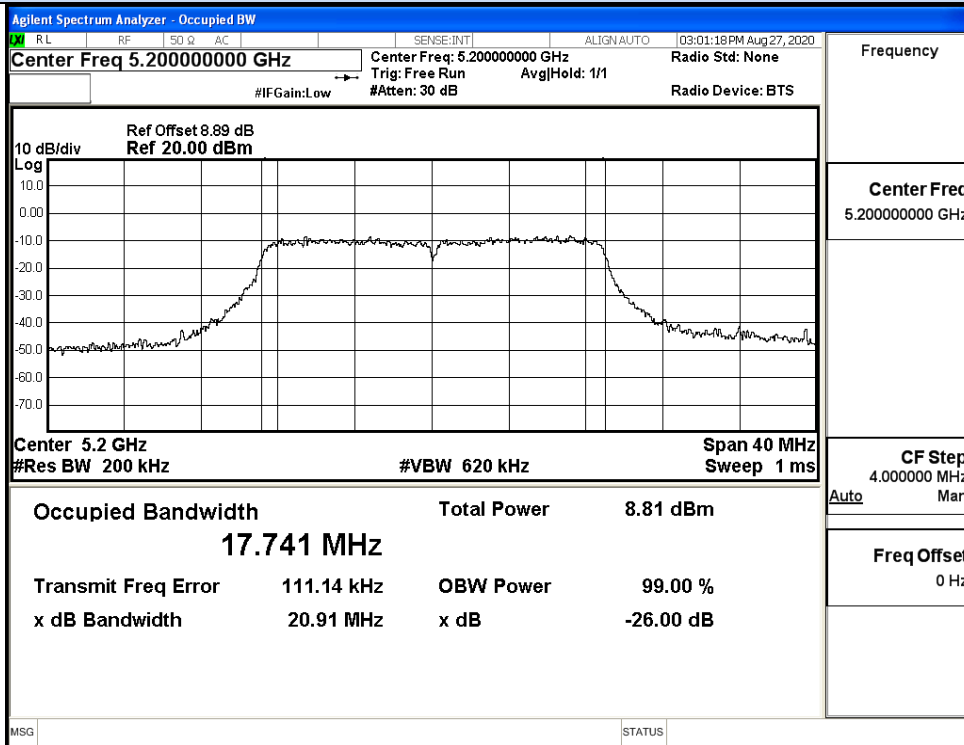
IEEE 802.11n40 / Channel 38 / 5190MHz



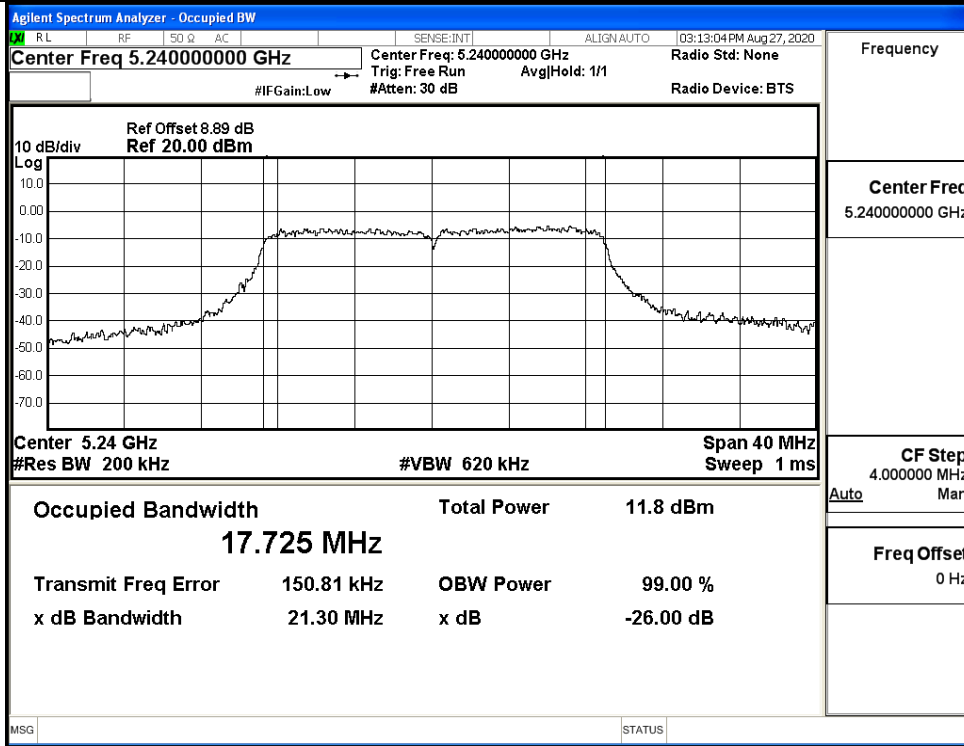
IEEE 802.11n40 / Channel 46 / 5230MHz



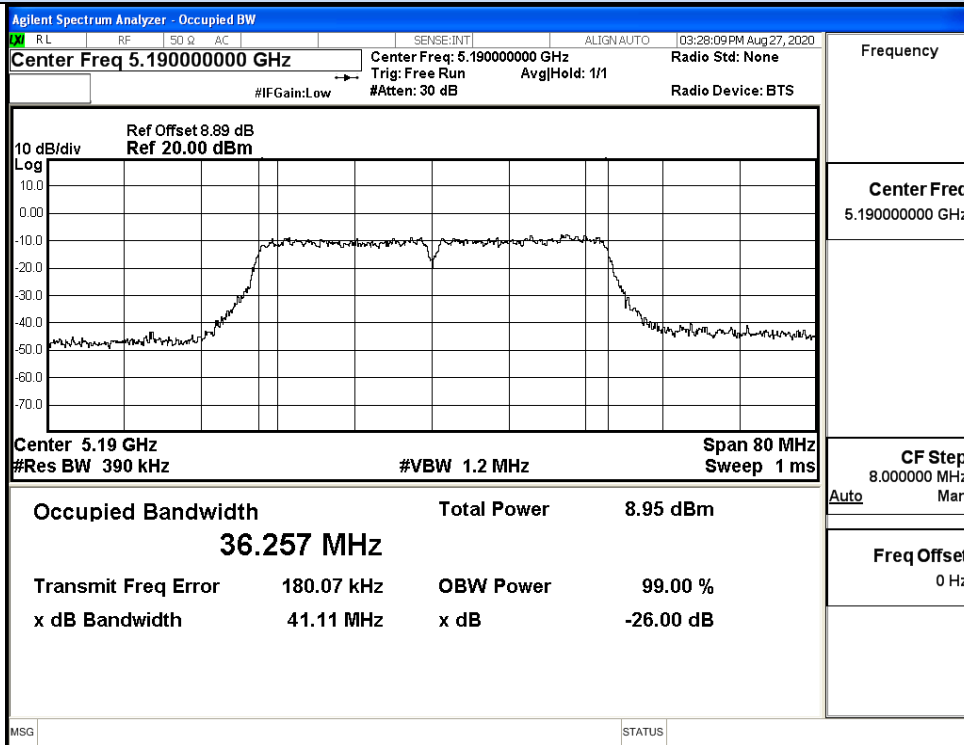
IEEE 802.11ac20 / Channel 36 / 5180MHz



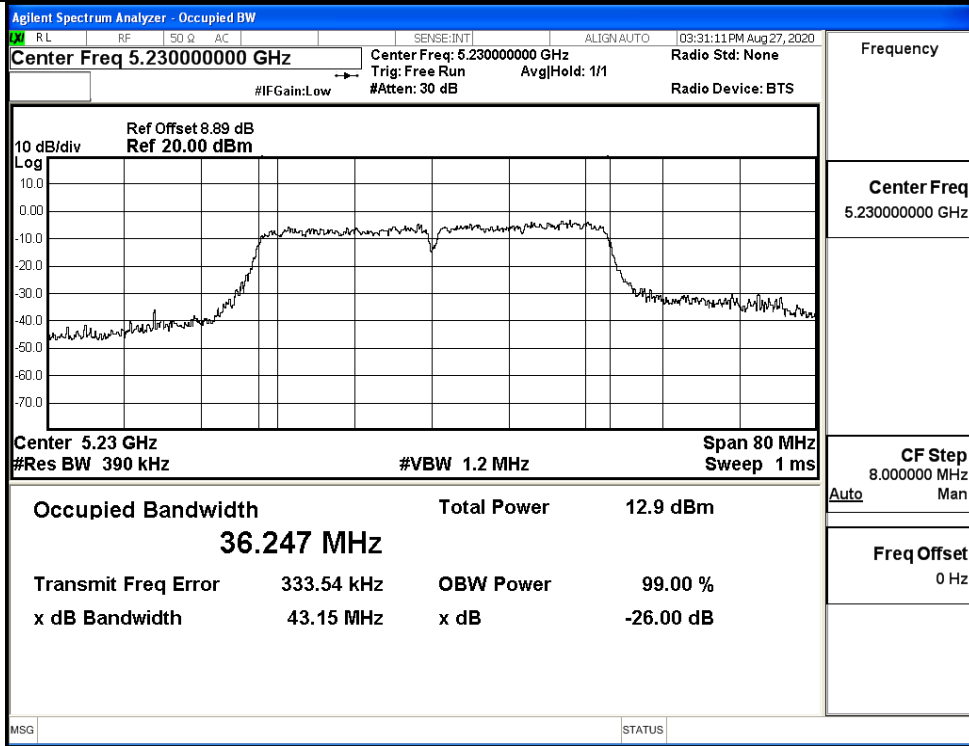
IEEE 802.11ac20 / Channel 40 / 5200MHz



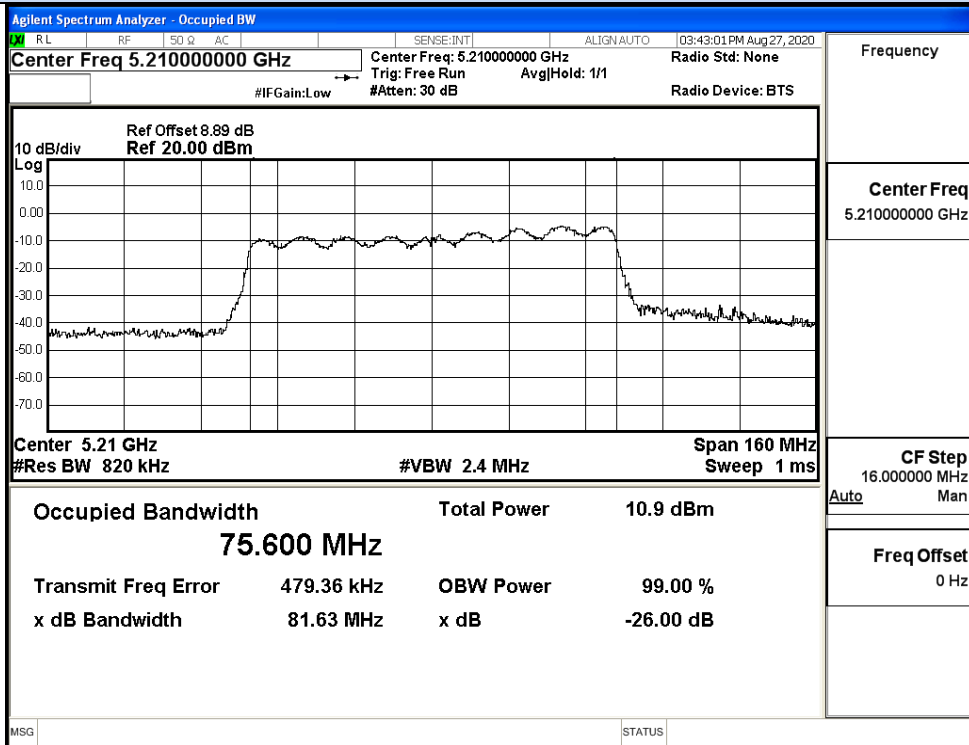
IEEE 802.11ac20 / Channel 48 / 5240MHz



IEEE 802.11ac40 / Channel 38 / 5190MHz



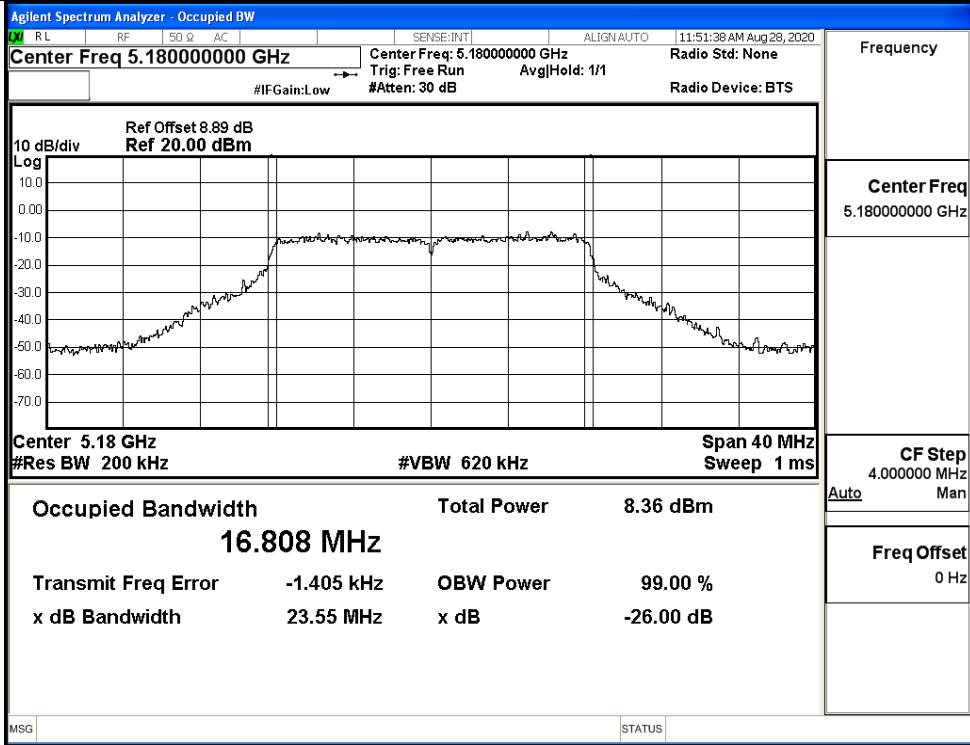
IEEE 802.11ac40 / Channel 46 / 5230MHz



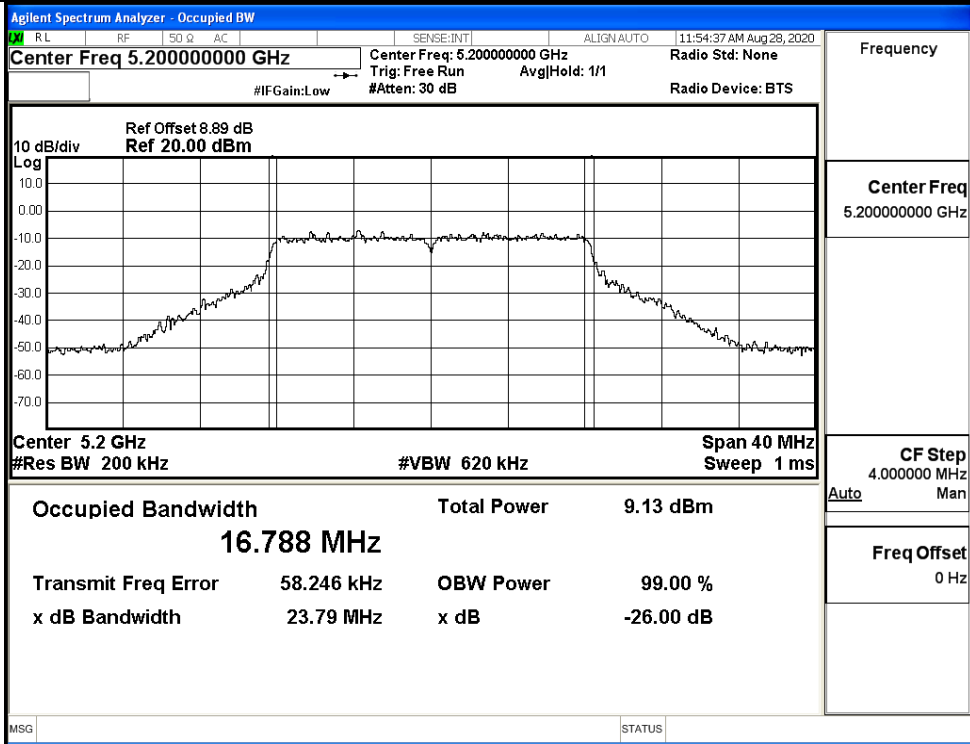
IEEE 802.11ac80 / Channel 42 / 5210MHz

ANT2

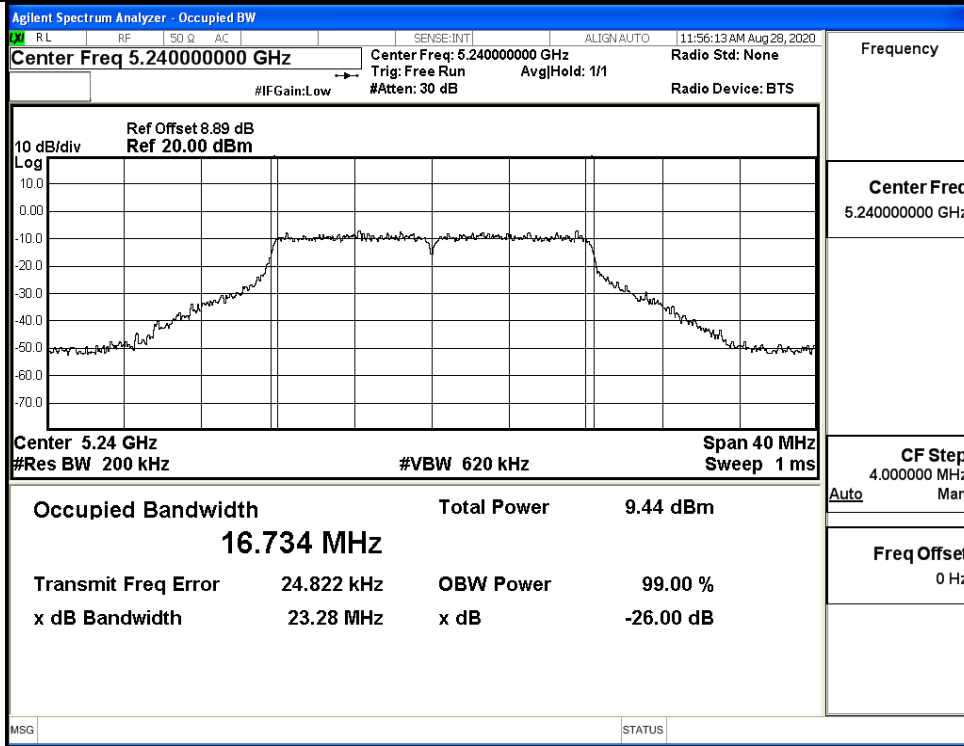
26dB Bandwidth



IEEE 802.11a / Channel 36 / 5180MHz

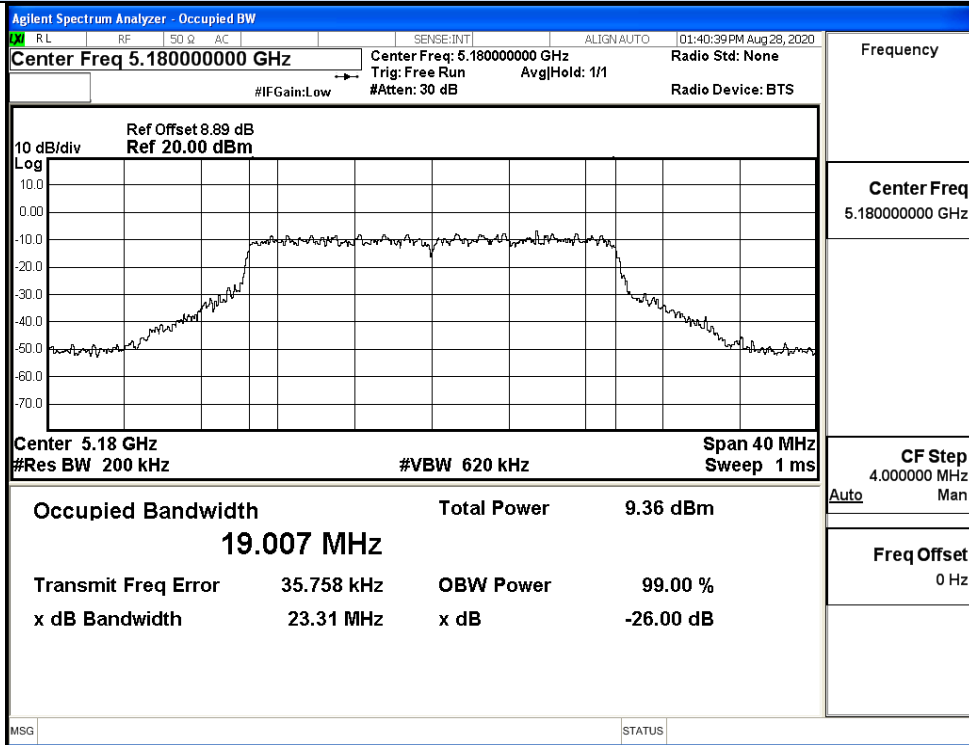


IEEE 802.11a / Channel 40 / 5200MHz

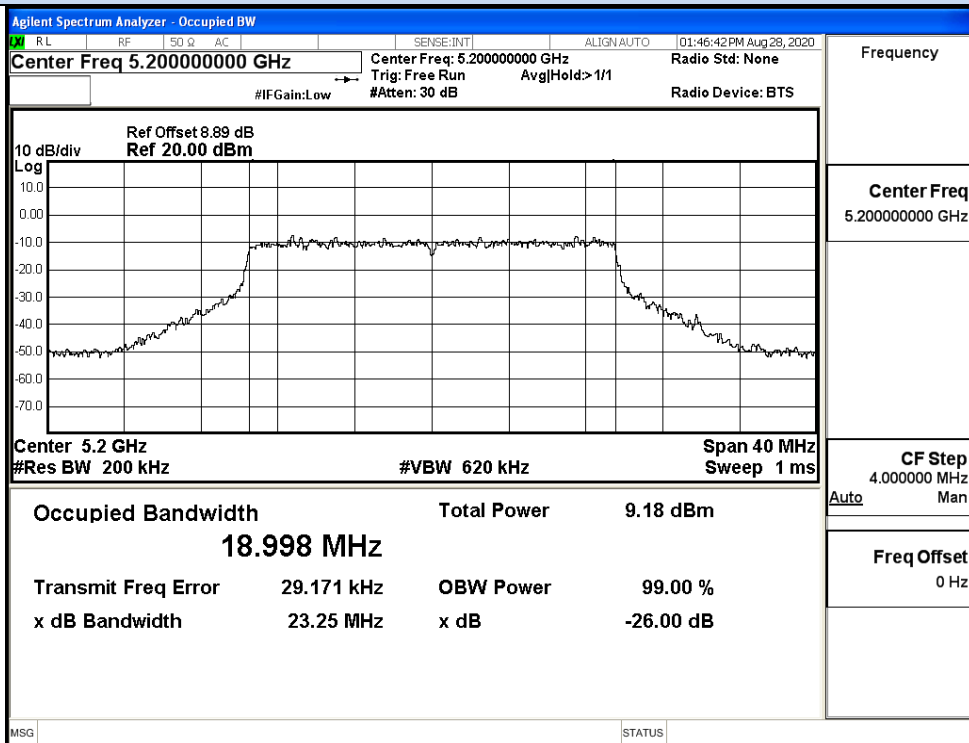


IEEE 802.11a / Channel 48 / 5240MHz

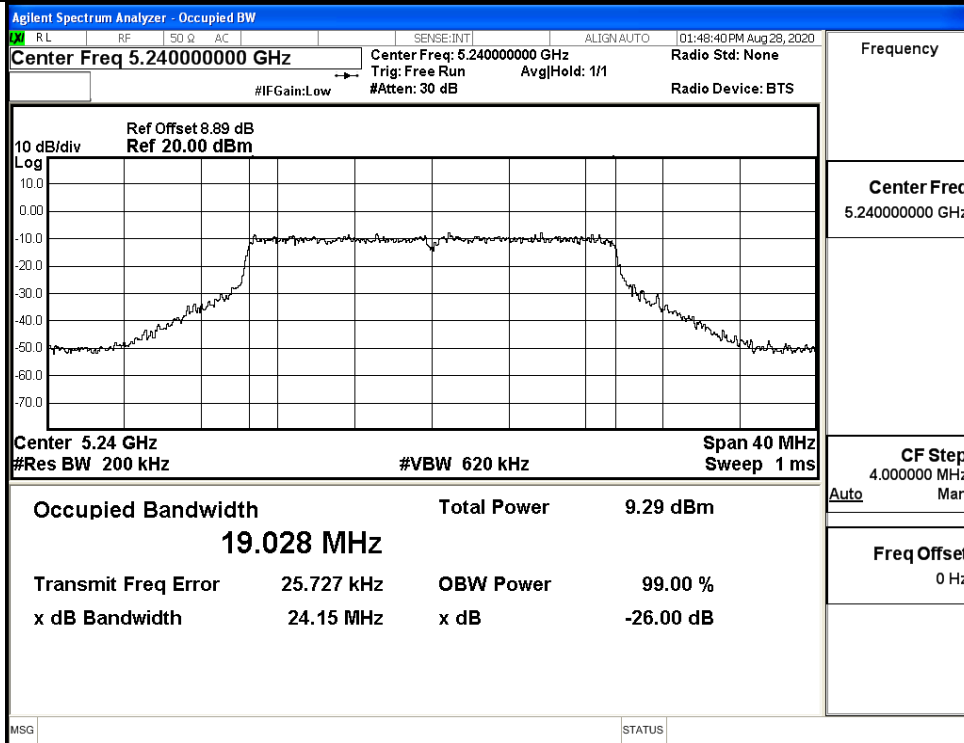
26dB Bandwidth



IEEE 802.11n20 / Channel 36 / 5180MHz

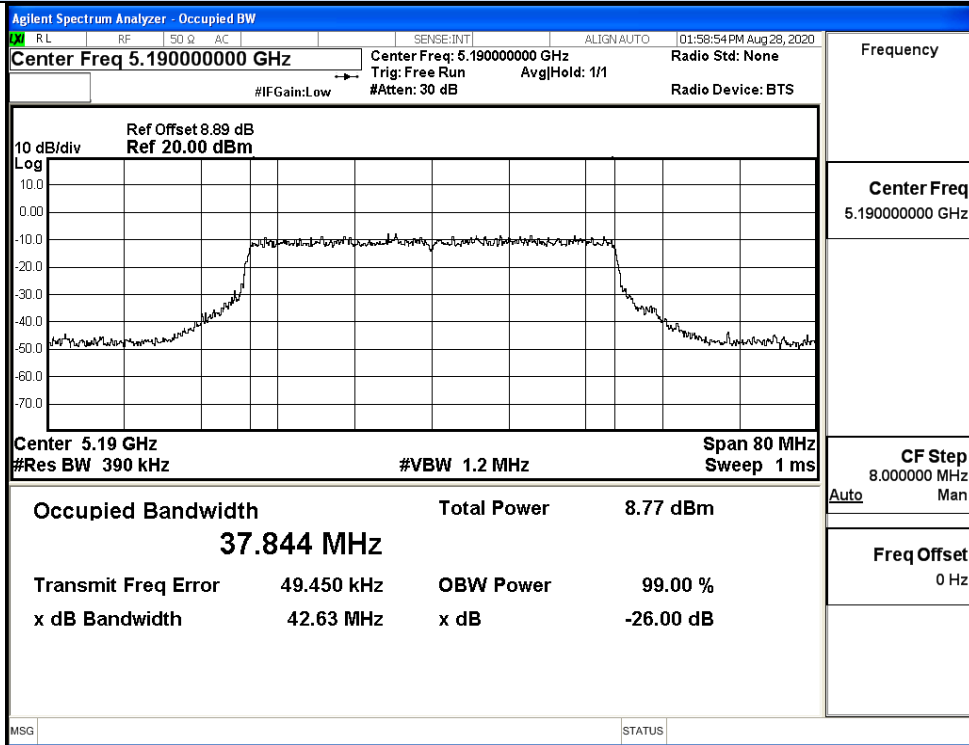


IEEE 802.11n20 / Channel 40 / 5200MHz

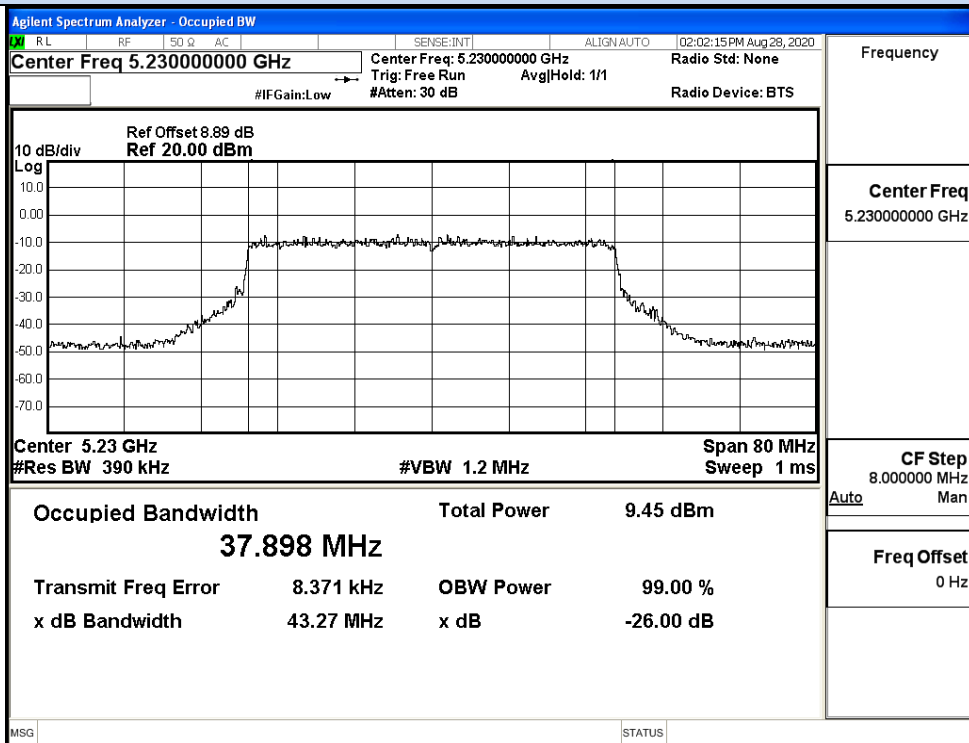


IEEE 802.11n20 / Channel 48 / 5240MHz

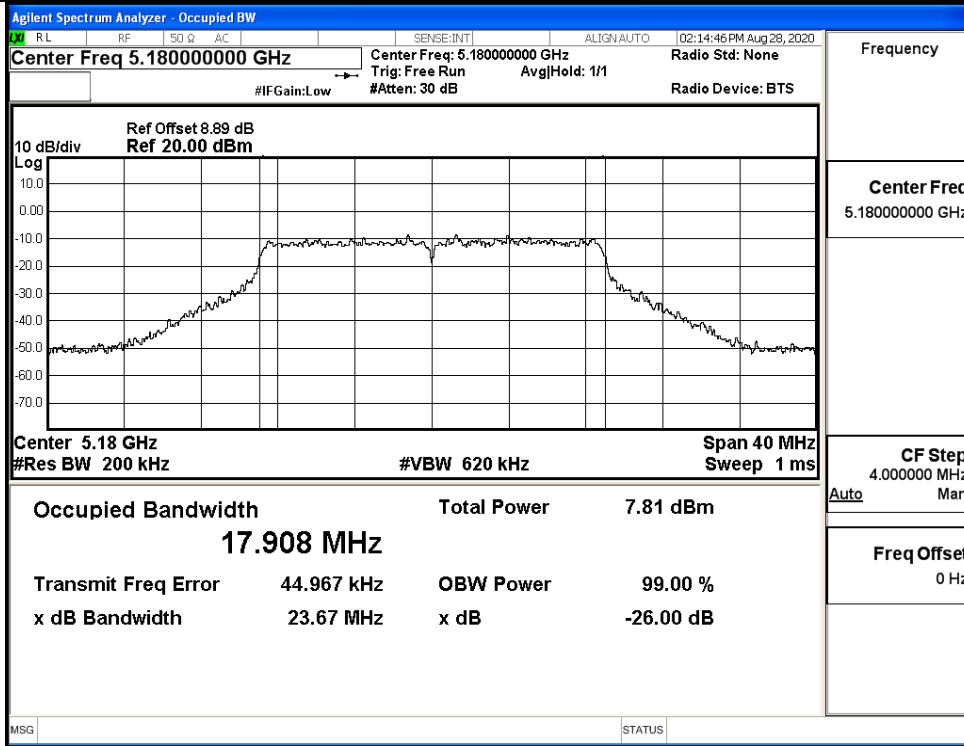
26dB Bandwidth



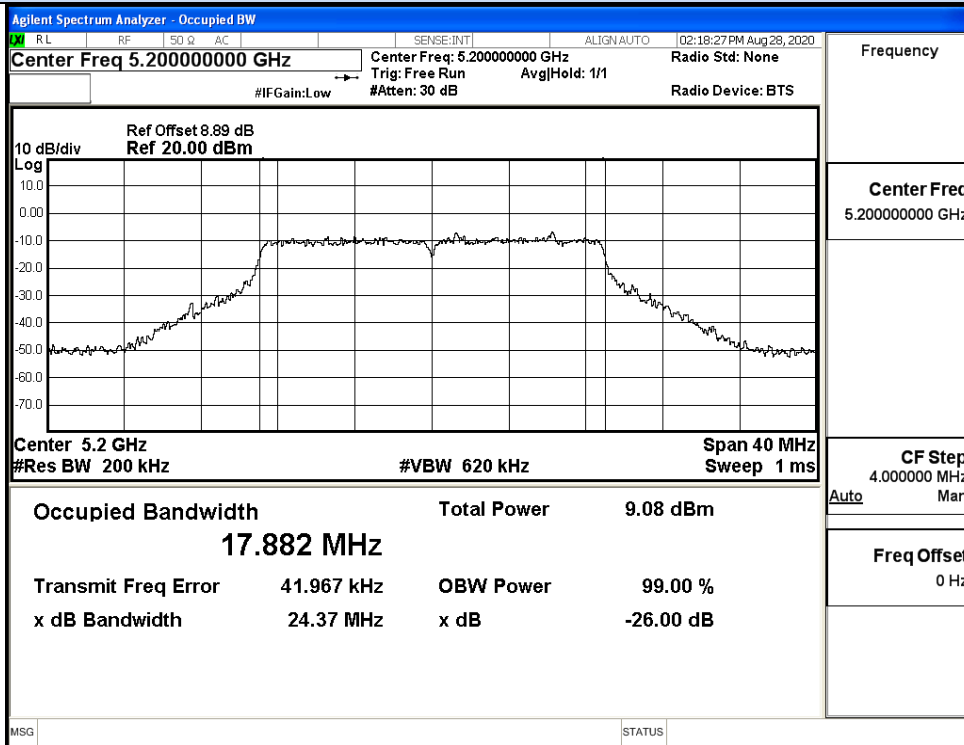
IEEE 802.11n40 / Channel 38 / 5190MHz



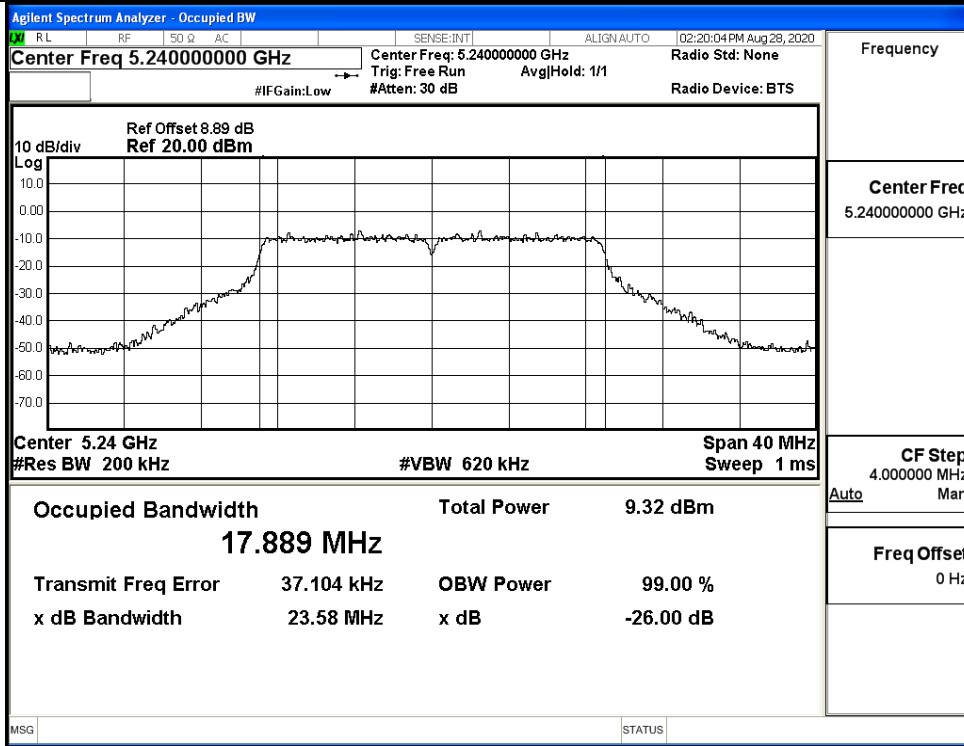
IEEE 802.11n40 / Channel 46 / 5230MHz



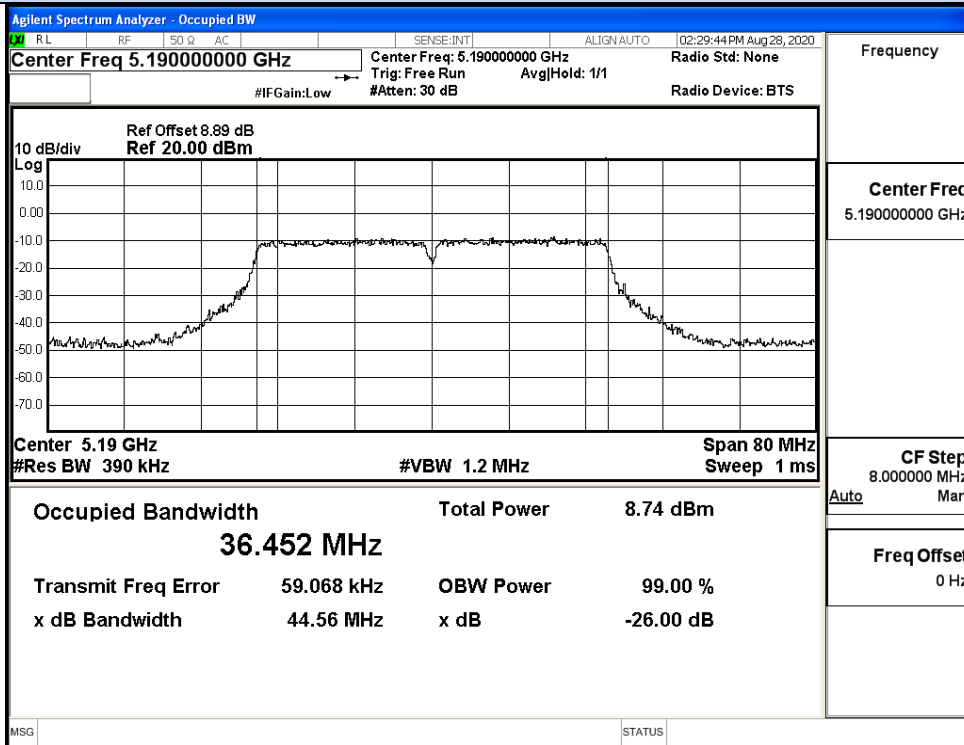
IEEE 802.11ac20 / Channel 36 / 5180MHz



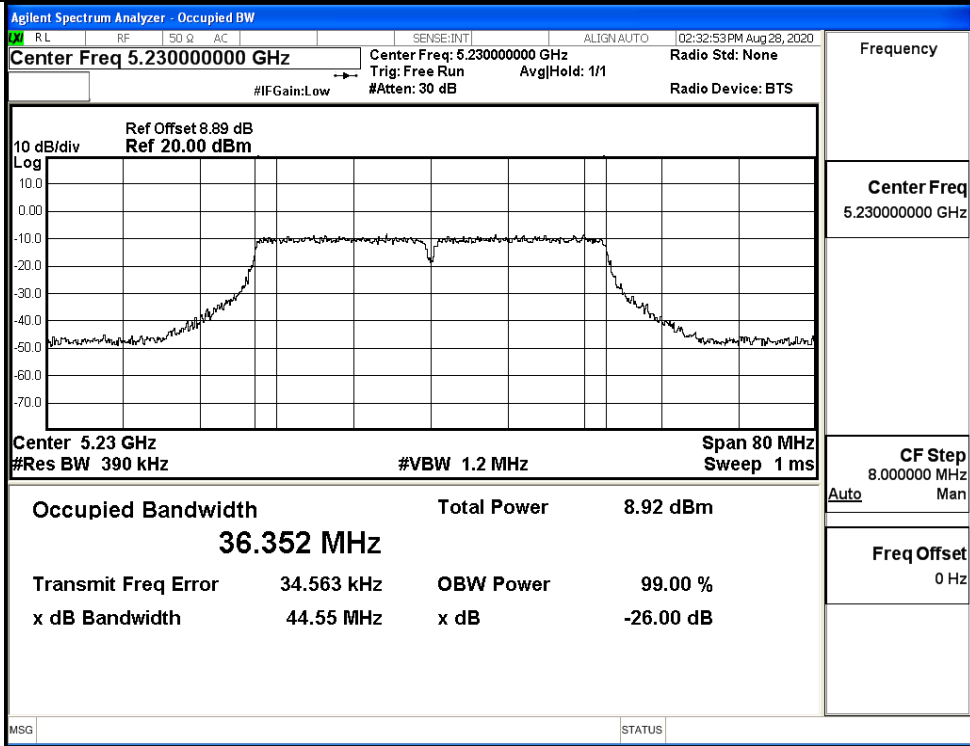
IEEE 802.11ac20 / Channel 40 / 5200MHz



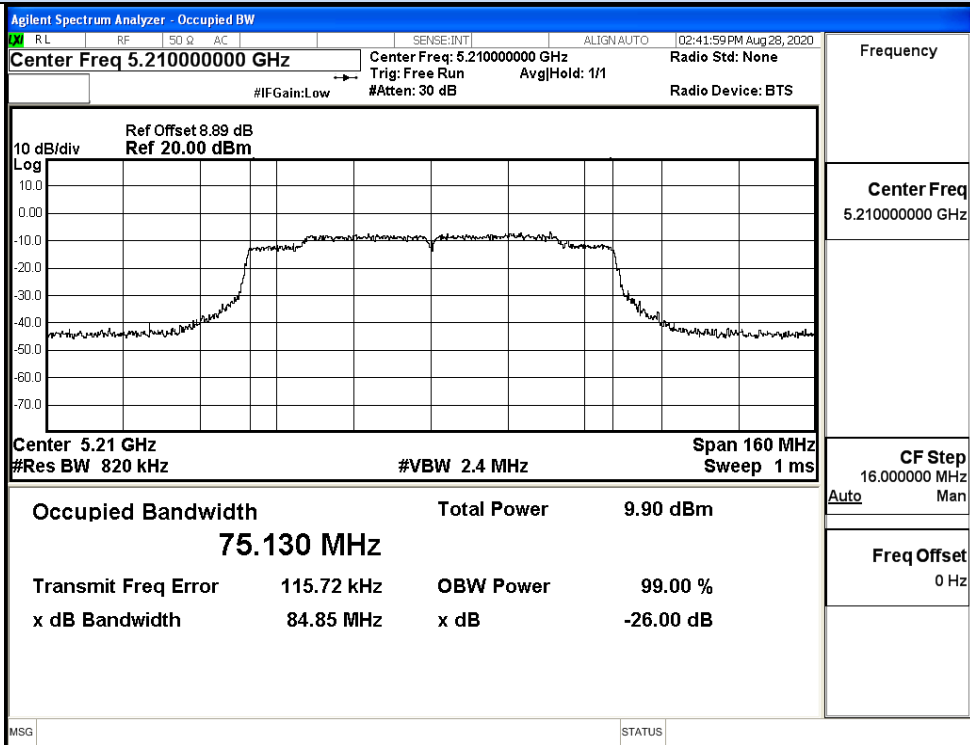
IEEE 802.11ac20 / Channel 48 / 5240MHz



IEEE 802.11ac40 / Channel 38 / 5190MHz



IEEE 802.11ac40 / Channel 46 / 5230MHz



IEEE 802.11ac80 / Channel 42 / 5210MHz

D.5 Undesirable Emissions Measurement

ANT1

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)	Verdict
11A	36	4500.0	-50.40	6.00	0	50.83	Peak	68.20	Pass
		4500.0	-59.78	6.00	0	41.45	Average	54.00	Pass
		5150.0	-47.28	6.00	0	53.95	Peak	68.20	Pass
		5150.0	-57.91	6.00	0	43.32	Average	54.00	Pass
	48	5350.0	-48.66	6.00	0	52.57	Peak	68.20	Pass
		5350.0	-59.49	6.00	0	41.74	Average	54.00	Pass
		5460.0	-48.65	6.00	0	52.58	Peak	68.20	Pass
		5460.0	-59.36	6.00	0	41.87	Average	54.00	Pass
11N2 0 SISO	36	4500.0	-49.48	6.00	0	51.75	Peak	68.20	Pass
		4500.0	-59.79	6.00	0	41.44	Average	54.00	Pass
		5150.0	-48.21	6.00	0	53.02	Peak	68.20	Pass
		5150.0	-58.00	6.00	0	43.23	Average	54.00	Pass
	48	5350.0	-49.49	6.00	0	51.74	Peak	68.20	Pass
		5350.0	-59.66	6.00	0	41.57	Average	54.00	Pass
		5460.0	-47.75	6.00	0	53.48	Peak	68.20	Pass
		5460.0	-59.54	6.00	0	41.69	Average	54.00	Pass
11N4 0 SISO	38	4500.0	-50.17	6.00	0	51.06	Peak	68.20	Pass
		4500.0	-59.77	6.00	0	41.46	Average	54.00	Pass
		5150.0	-45.83	6.00	0	55.40	Peak	68.20	Pass
		5150.0	-56.20	6.00	0	45.03	Average	54.00	Pass
	46	5350.0	-50.11	6.00	0	51.12	Peak	68.20	Pass
		5350.0	-59.33	6.00	0	41.90	Average	54.00	Pass
		5460.0	-48.94	6.00	0	52.29	Peak	68.20	Pass
		5460.0	-59.24	6.00	0	41.99	Average	54.00	Pass
11A C20 SISO	36	4500.0	-49.31	6.00	0	51.92	Peak	68.20	Pass
		4500.0	-59.84	6.00	0	41.39	Average	54.00	Pass
		5150.0	-48.46	6.00	0	52.77	Peak	68.20	Pass
		5150.0	-57.84	6.00	0	43.39	Average	54.00	Pass
	48	4500.0	-49.31	6.00	0	51.92	Peak	68.20	Pass
		4500.0	-59.84	6.00	0	41.39	Average	54.00	Pass
		5150.0	-48.46	6.00	0	52.77	Peak	68.20	Pass
		5150.0	-57.84	6.00	0	43.39	Average	54.00	Pass
11A C40 SISO	38	4500.0	-50.26	6.00	0	50.97	Peak	68.20	Pass
		4500.0	-59.84	6.00	0	41.39	Average	54.00	Pass
		5150.0	-47.17	6.00	0	54.06	Peak	68.20	Pass
		5150.0	-56.52	6.00	0	44.71	Average	54.00	Pass
	46	5350.0	-49.40	6.00	0	51.83	Peak	68.20	Pass
		5350.0	-59.37	6.00	0	41.86	Average	54.00	Pass
		5460.0	-49.68	6.00	0	51.55	Peak	68.20	Pass
		5460.0	-59.22	6.00	0	42.01	Average	54.00	Pass
11A C80 SISO	42	4500.0	-49.22	6.00	0	52.01	Peak	68.20	Pass
		5150.0	-58.77	6.00	0	42.46	Average	54.00	Pass
		4500.0	-48.14	6.00	0	53.09	Peak	68.20	Pass
		5150.0	-58.76	6.00	0	42.47	Average	54.00	Pass
		5350.0	-49.22	6.00	0	52.01	Peak	68.20	Pass
		5460.0	-58.77	6.00	0	42.46	Average	54.00	Pass
		5350.0	-48.14	6.00	0	53.09	Peak	68.20	Pass
		5460.0	-58.76	6.00	0	42.47	Average	54.00	Pass

ANT2

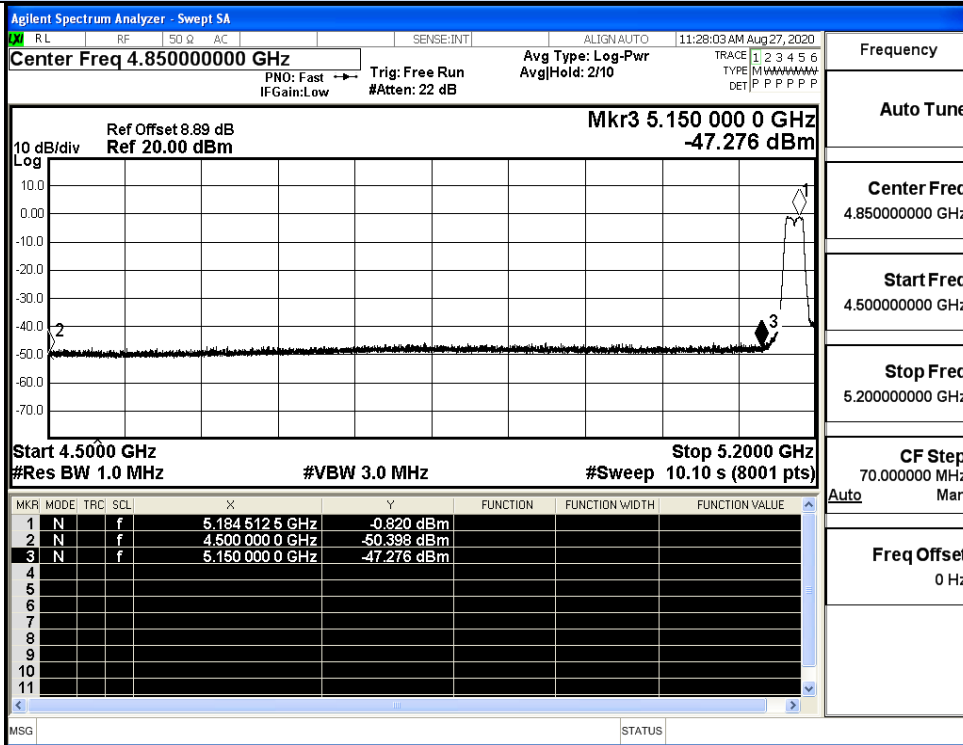
Test Mode	Channel	Frequency (MHz)	Conducted Power (dBm)	Antenna Gain (dBi)	Ground Reflection Factor (dB)	Covert Radiated E Level At 3m (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
11A	36	4500.0	-50.41	6.00	0	44.82	Peak	68.20	Pass
		4500.0	-59.82	6.00	0	35.41	Average	54.00	Pass
		5150.0	-47.45	6.00	0	47.78	Peak	68.20	Pass
		5150.0	-57.63	6.00	0	37.60	Average	54.00	Pass
	48	5350.0	-47.79	6.00	0	47.44	Peak	68.20	Pass
		5350.0	-58.84	6.00	0	36.39	Average	54.00	Pass
		5460.0	-48.73	6.00	0	46.50	Peak	68.20	Pass
11N2 0 SISO	36	4500.0	-49.69	6.00	0	45.54	Peak	68.20	Pass
		4500.0	-59.81	6.00	0	35.42	Average	54.00	Pass
		5150.0	-48.30	6.00	0	46.93	Peak	68.20	Pass
		5150.0	-58.13	6.00	0	37.10	Average	54.00	Pass
	48	5350.0	-49.12	6.00	0	46.11	Peak	68.20	Pass
		5350.0	-59.61	6.00	0	35.62	Average	54.00	Pass
		5460.0	-49.41	6.00	0	45.82	Peak	68.20	Pass
11N4 0 SISO	38	4500.0	-50.61	6.00	0	44.62	Peak	68.20	Pass
		4500.0	-59.81	6.00	0	35.42	Average	54.00	Pass
		5150.0	-47.73	6.00	0	47.50	Peak	68.20	Pass
		5150.0	-57.74	6.00	0	37.49	Average	54.00	Pass
	46	5350.0	-49.54	6.00	0	45.69	Peak	68.20	Pass
		5350.0	-59.35	6.00	0	35.88	Average	54.00	Pass
		5460.0	-48.86	6.00	0	46.36	Peak	68.20	Pass
11A C20 SISO	36	4500.0	-50.62	6.00	0	44.61	Peak	68.20	Pass
		4500.0	-59.78	6.00	0	35.45	Average	54.00	Pass
		5150.0	-47.31	6.00	0	47.92	Peak	68.20	Pass
		5150.0	-57.62	6.00	0	37.61	Average	54.00	Pass
	48	4500.0	-50.62	6.00	0	44.61	Peak	68.20	Pass
		4500.0	-59.78	6.00	0	35.45	Average	54.00	Pass
		5150.0	-47.31	6.00	0	47.92	Peak	68.20	Pass
11A C40 SISO	38	4500.0	-51.10	6.00	0	44.13	Peak	68.20	Pass
		4500.0	-59.84	6.00	0	35.39	Average	54.00	Pass
		5150.0	-48.20	6.00	0	47.03	Peak	68.20	Pass
		5150.0	-57.49	6.00	0	37.74	Average	54.00	Pass
	46	5350.0	-48.56	6.00	0	46.66	Peak	68.20	Pass
		5350.0	-59.37	6.00	0	35.86	Average	54.00	Pass
		5460.0	-48.61	6.00	0	46.62	Peak	68.20	Pass
11A C80 SISO	42	5460.0	-59.32	6.00	0	35.90	Average	54.00	Pass
		4500.0	-48.87	6.00	0	46.36	Peak	68.20	Pass
		5150.0	-58.84	6.00	0	36.38	Average	54.00	Pass
		4500.0	-49.63	6.00	0	45.59	Peak	68.20	Pass
		5150.0	-58.77	6.00	0	36.46	Average	54.00	Pass
		5350.0	-48.87	6.00	0	46.36	Peak	68.20	Pass
		5460.0	-58.77	6.00	0	36.46	Average	54.00	Pass

Antenna 1+ Antenna 2

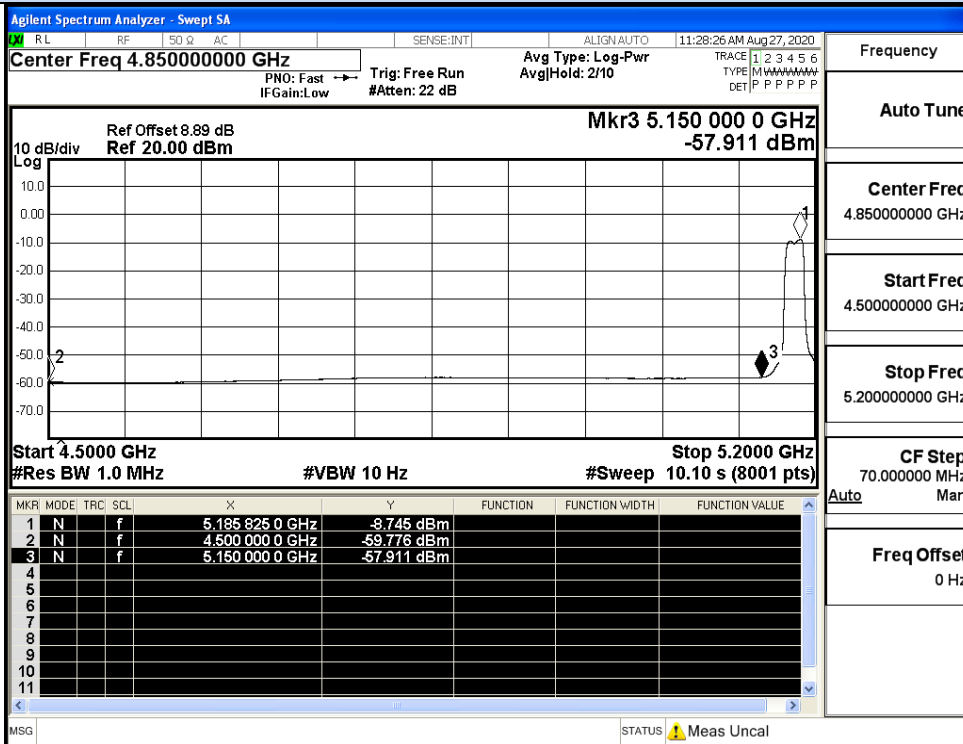
Test Mode	Chan nel	Freque ncy (MHz)	Covert Radiated E Level At 3m (dBuV/m)			Antenna Gain (dBi)	Ground Reflection Factor (dB)	Covert Radiated E Level At 3m (dBuV/m)	Detector	Limit (dBuV/m)
			Ant1	Ant2	Sum					
11N20 MIMO	36	4500.0	-49.48	-49.69	-46.57	9.01	0	57.66	Peak	68.20
		4500.0	-59.79	-59.81	-56.79	9.01	0	47.45	Average	54.00
		5150.0	-48.21	-48.30	-45.24	9.01	0	58.99	Peak	68.20
		5150.0	-58.00	-58.13	-55.05	9.01	0	49.18	Average	54.00
	48	5350.0	-49.49	-49.12	-46.29	9.01	0	57.95	Peak	68.20
		5350.0	-59.66	-59.61	-56.62	9.01	0	47.61	Average	54.00
		5460.0	-47.75	-49.41	-45.49	9.01	0	58.75	Peak	68.20
		5460.0	-59.54	-59.61	-56.56	9.01	0	47.67	Average	54.00
11N40 MIMO	38	4500.0	-50.17	-50.61	-47.37	9.01	0	56.86	Peak	68.20
		4500.0	-59.77	-59.81	-56.78	9.01	0	47.46	Average	54.00
		5150.0	-45.83	-47.73	-43.67	9.01	0	60.57	Peak	68.20
		5150.0	-56.20	-57.74	-53.89	9.01	0	50.35	Average	54.00
	46	5350.0	-50.11	-49.54	-46.81	9.01	0	57.43	Peak	68.20
		5350.0	-59.33	-59.35	-56.33	9.01	0	47.91	Average	54.00
		5460.0	-48.94	-48.86	-45.89	9.01	0	58.35	Peak	68.20
		5460.0	-59.24	-59.34	-56.28	9.01	0	47.96	Average	54.00
11AC20 MIMO	36	4500.0	-49.31	-50.62	-46.91	9.01	0	57.33	Peak	68.20
		4500.0	-59.84	-59.78	-56.80	9.01	0	47.44	Average	54.00
		5150.0	-48.46	-47.31	-44.84	9.01	0	59.40	Peak	68.20
		5150.0	-57.84	-57.62	-54.72	9.01	0	49.52	Average	54.00
	48	5350.0	-49.31	-50.62	-46.91	9.01	0	57.33	Peak	68.20
		5350.0	-59.84	-59.78	-56.80	9.01	0	47.44	Average	54.00
		5460.0	-48.46	-47.31	-44.84	9.01	0	59.40	Peak	68.20
		5460.0	-57.84	-57.62	-54.72	9.01	0	49.52	Average	54.00
11AC40 MIMO	38	4500.0	-50.26	-51.10	-47.65	9.01	0	56.59	Peak	68.20
		4500.0	-59.84	-59.84	-56.83	9.01	0	47.41	Average	54.00
		5150.0	-47.17	-48.20	-44.64	9.01	0	59.59	Peak	68.20
		5150.0	-56.52	-57.49	-53.97	9.01	0	50.27	Average	54.00
	46	5350.0	-49.40	-48.56	-45.95	9.01	0	58.21	Peak	68.20
		5350.0	-59.37	-59.37	-56.36	9.01	0	48.44	Average	54.00
		5460.0	-49.68	-48.61	-46.10	9.01	0	58.43	Peak	68.20
		5460.0	-59.22	-59.32	-56.26	9.01	0	48.48	Average	54.00
11AC80 MIMO	42	4500.0	-49.22	-48.87	-46.03	9.01	0	58.21	Peak	68.20
		4500.0	-58.77	-58.84	-55.79	9.01	0	48.44	Average	54.00
		5150.0	-48.14	-49.63	-45.81	9.01	0	58.43	Peak	68.20
		5150.0	-58.76	-58.77	-55.75	9.01	0	48.48	Average	54.00
		5350.0	-49.22	-48.87	-46.03	9.01	0	58.21	Peak	68.20
		5350.0	-58.77	-58.84	-55.79	9.01	0	48.44	Average	54.00
		5460.0	-48.14	-49.63	-45.81	9.01	0	58.43	Peak	68.20
		5460.0	-58.76	-58.77	-55.75	9.01	0	48.48	Average	54.00

ANT1

Undesirable Emissions Measurement

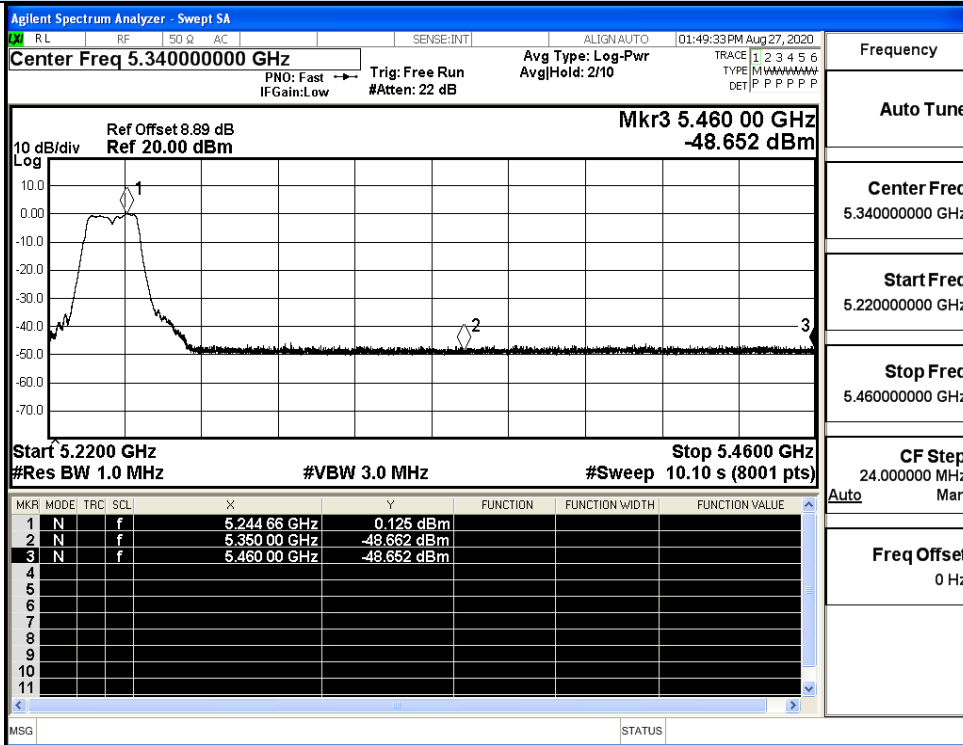


IEEE 802.11a / Channel 36 / 5180MHz / Peak

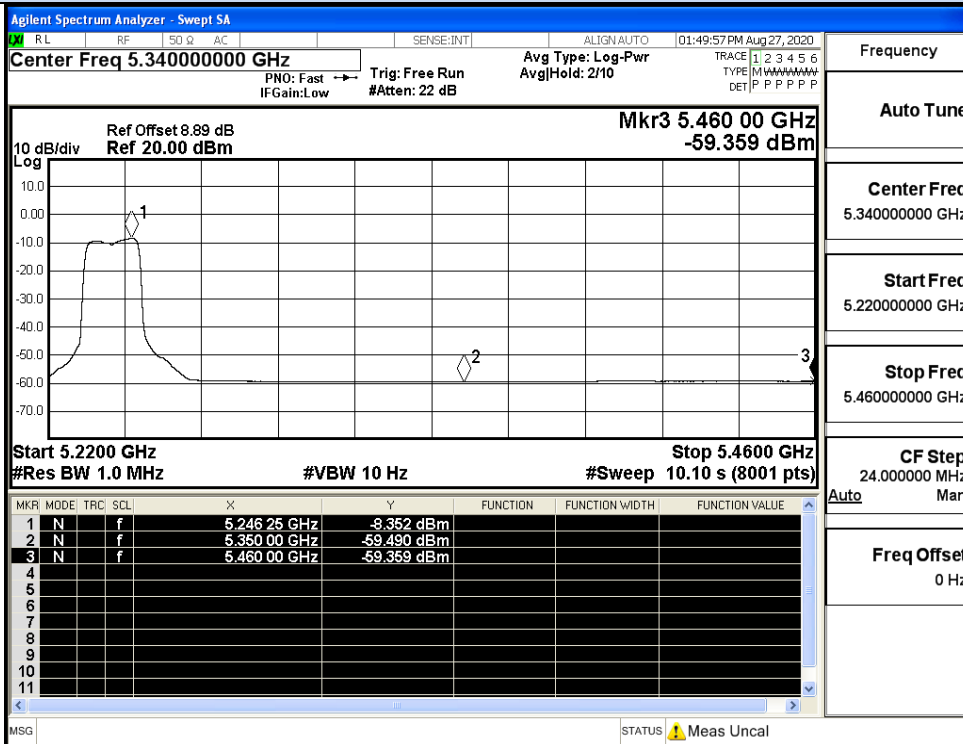


IEEE 802.11a / Channel 36 / 5180MHz / Average

Undesirable Emissions Measurement

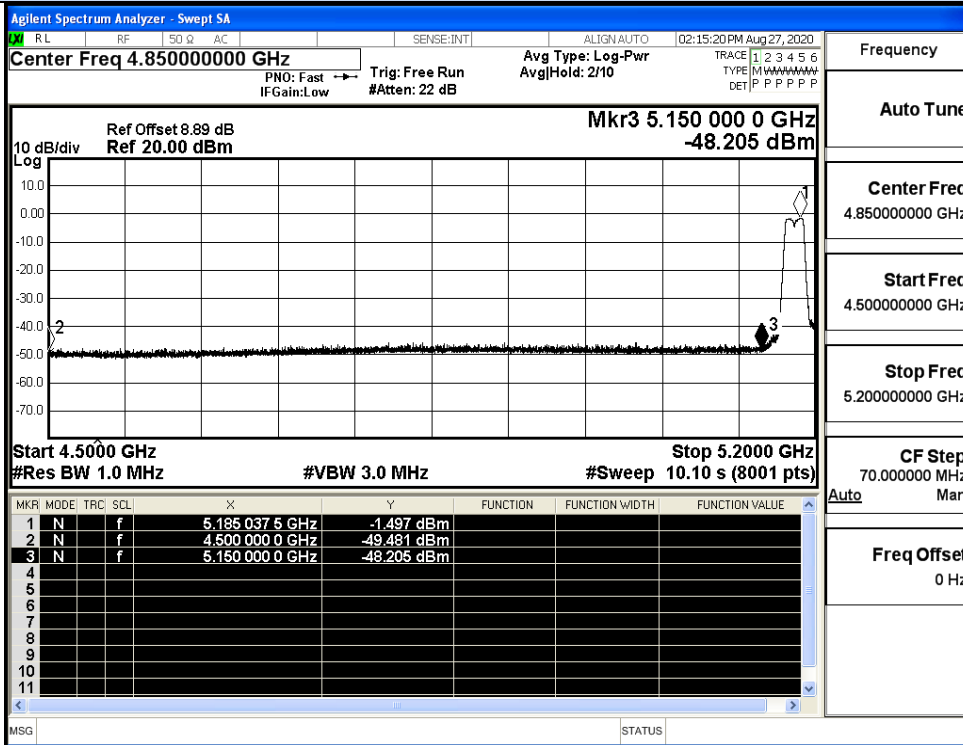


IEEE 802.11a / Channel 48 / 5240MHz / Peak

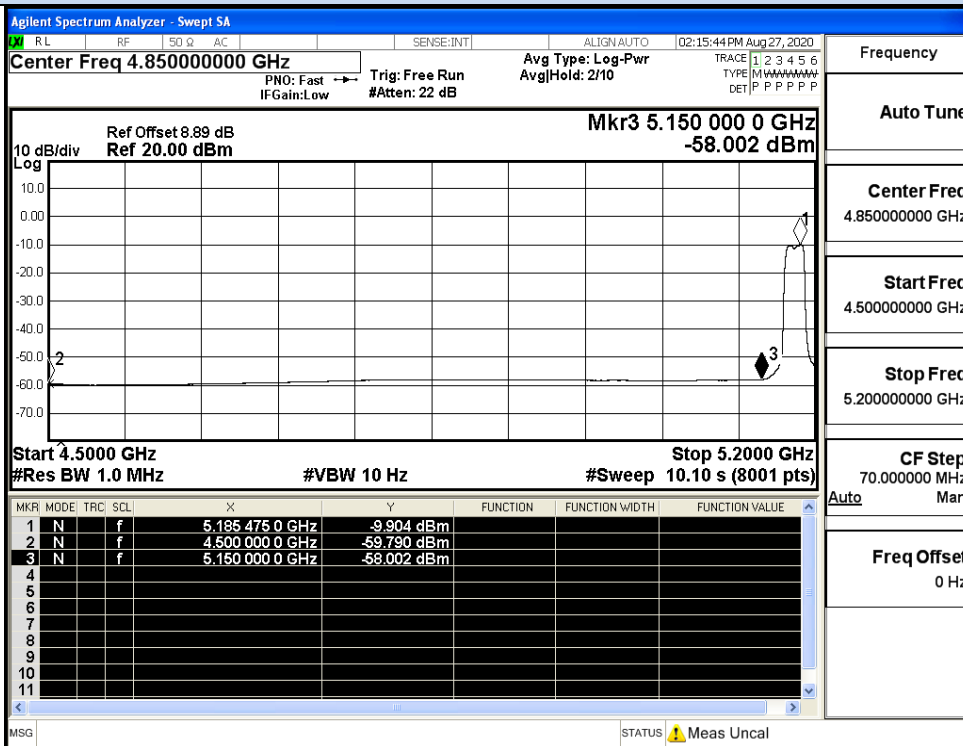


IEEE 802.11a / Channel 48 / 5240MHz / Average

Undesirable Emissions Measurement

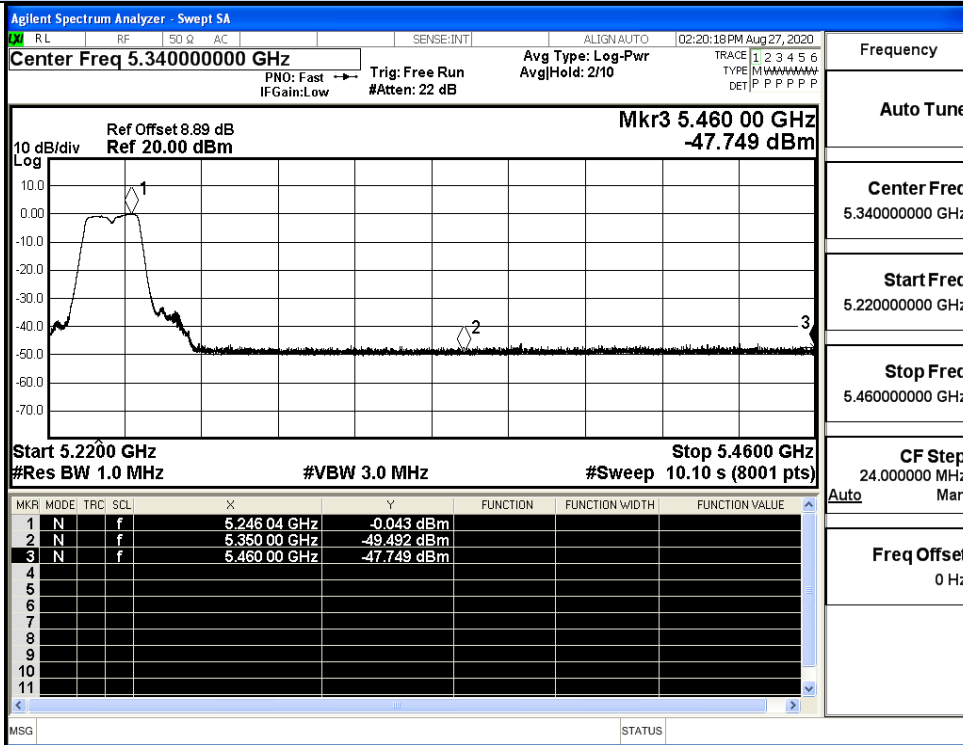


IEEE 802.11n20 / Channel 36 / 5180MHz / Peak

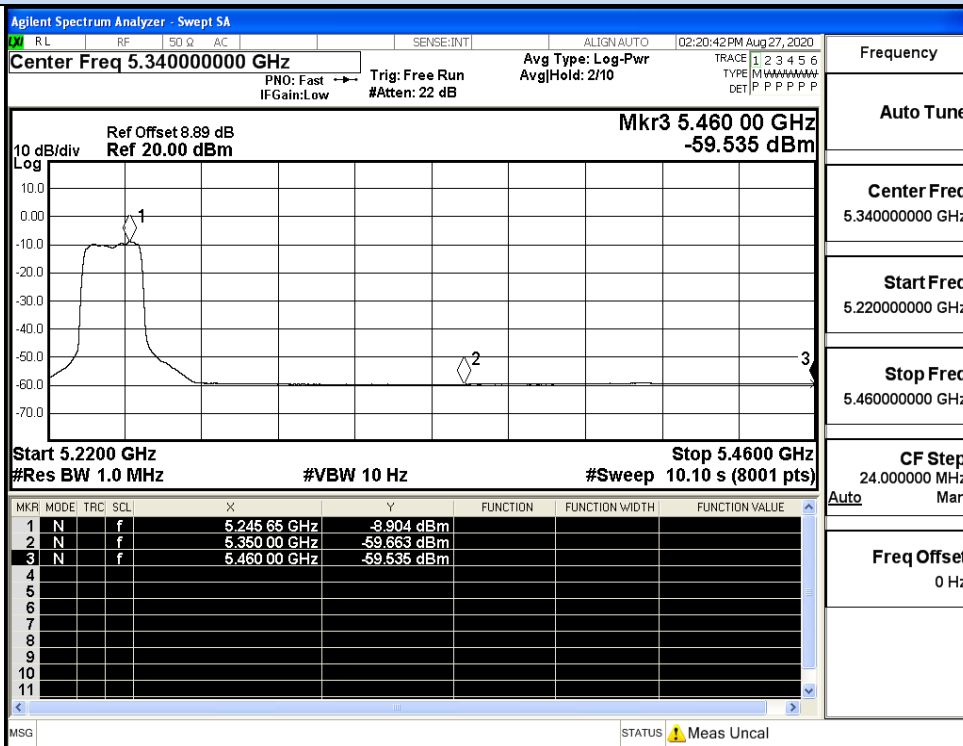


IEEE 802.11n20 / Channel 36 / 5180MHz / Average

Undesirable Emissions Measurement

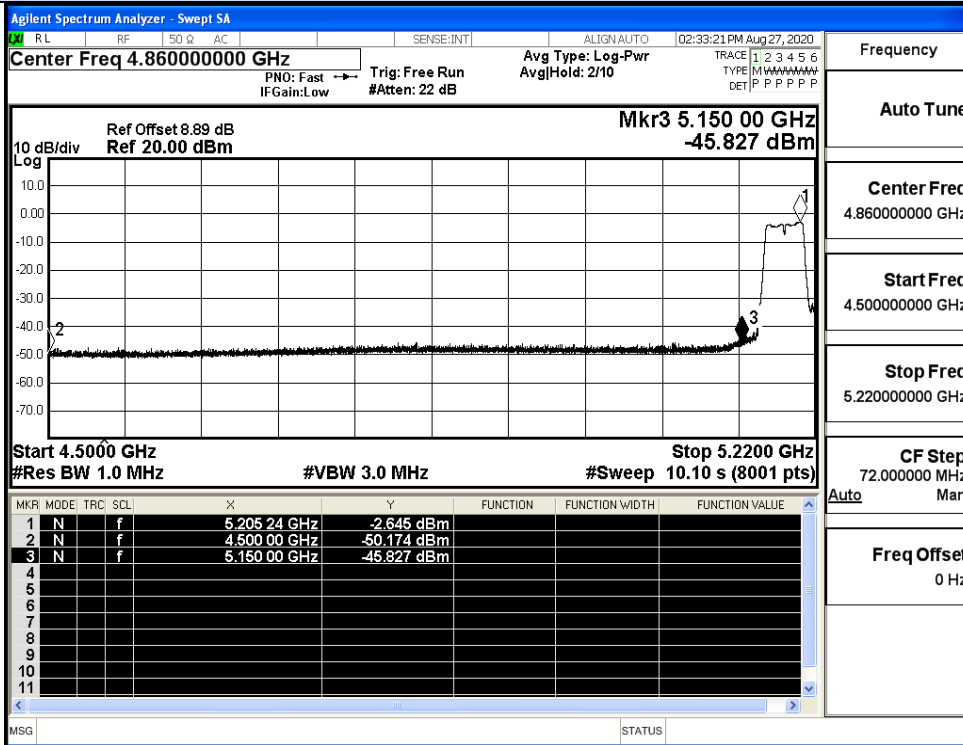


IEEE 802.11n20 / Channel 48 / 5240MHz / Peak

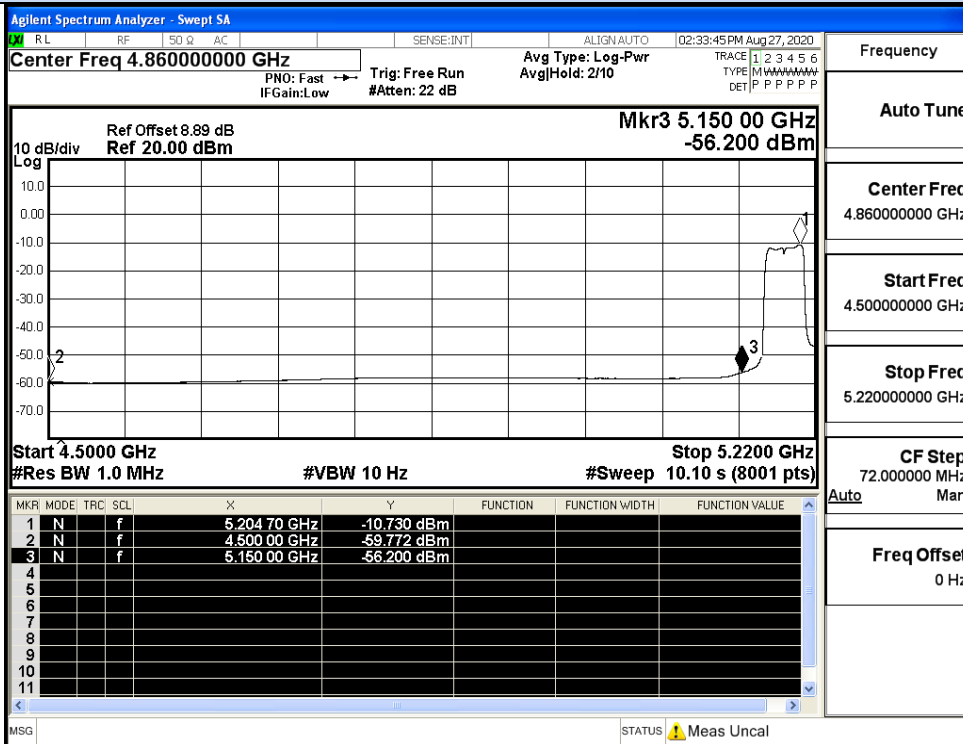


IEEE 802.11n20 / Channel 48 / 5240MHz / Average

Undesirable Emissions Measurement

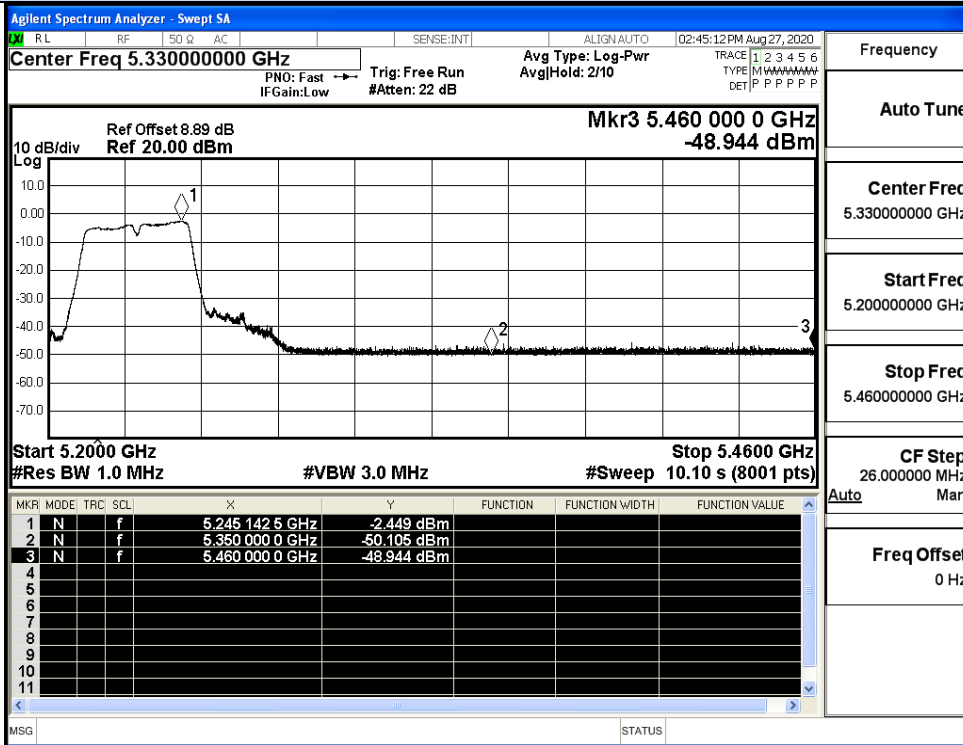


IEEE 802.11n40 / Channel 38 / 5190MHz / Peak

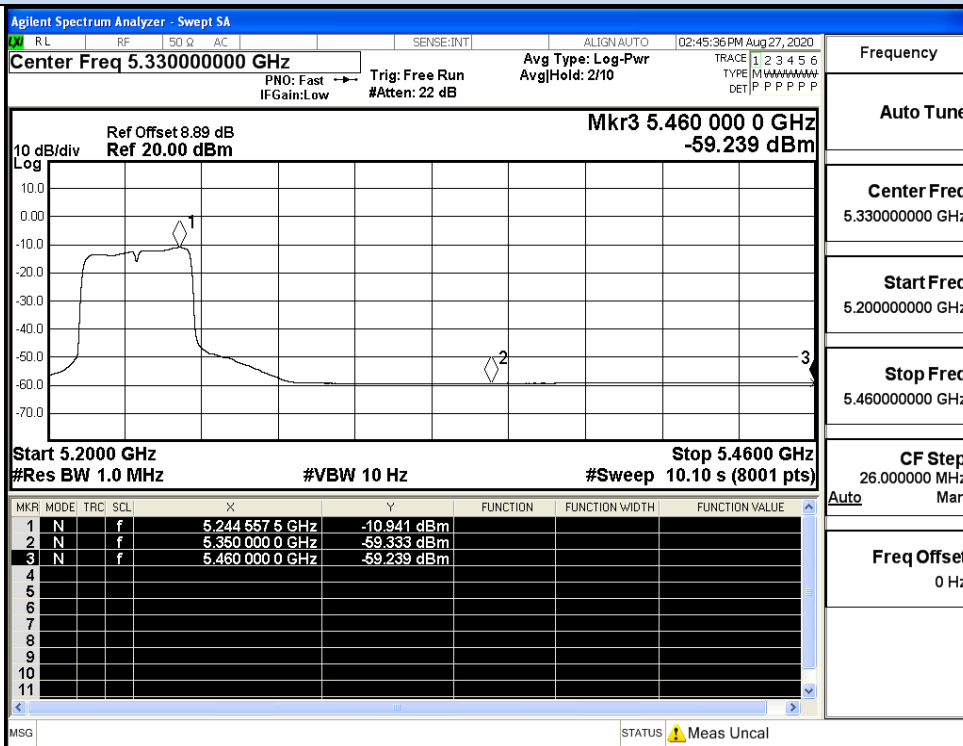


IEEE 802.11n40 / Channel 38 / 5190MHz / Average

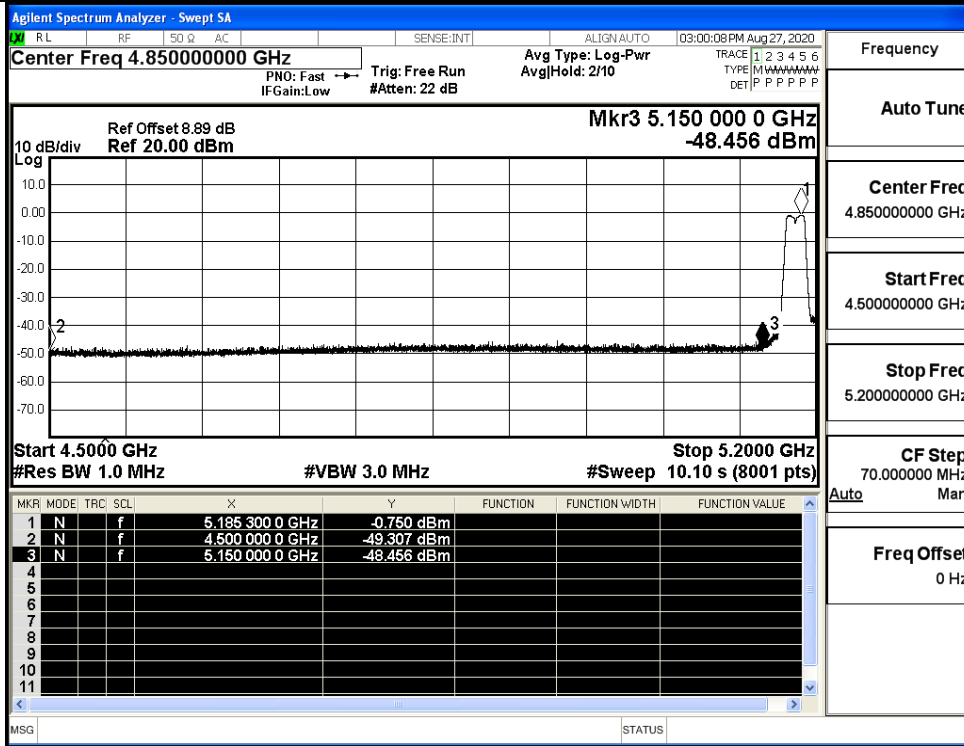
Undesirable Emissions Measurement



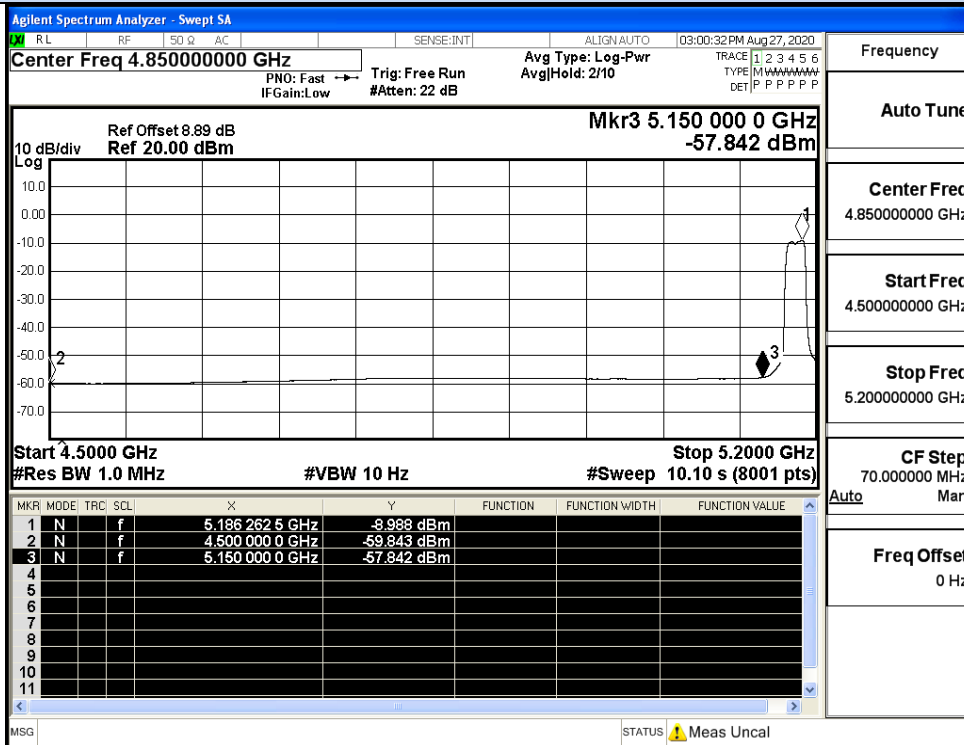
IEEE 802.11n40 / Channel 46 / 5230MHz / Peak



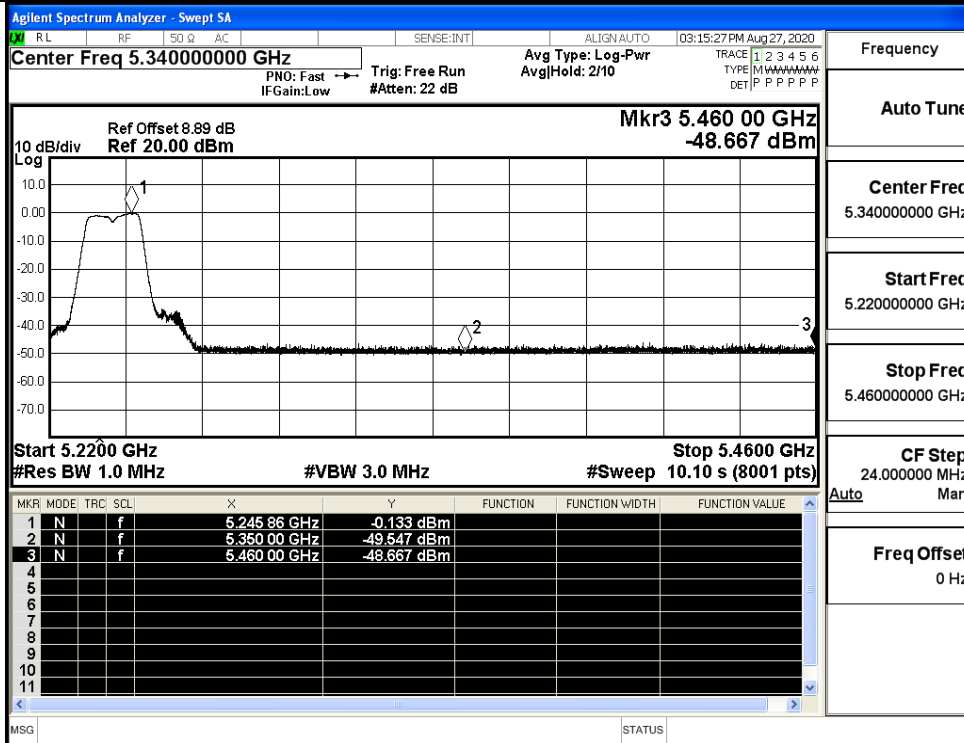
IEEE 802.11n40 / Channel 46 / 5230MHz / Average



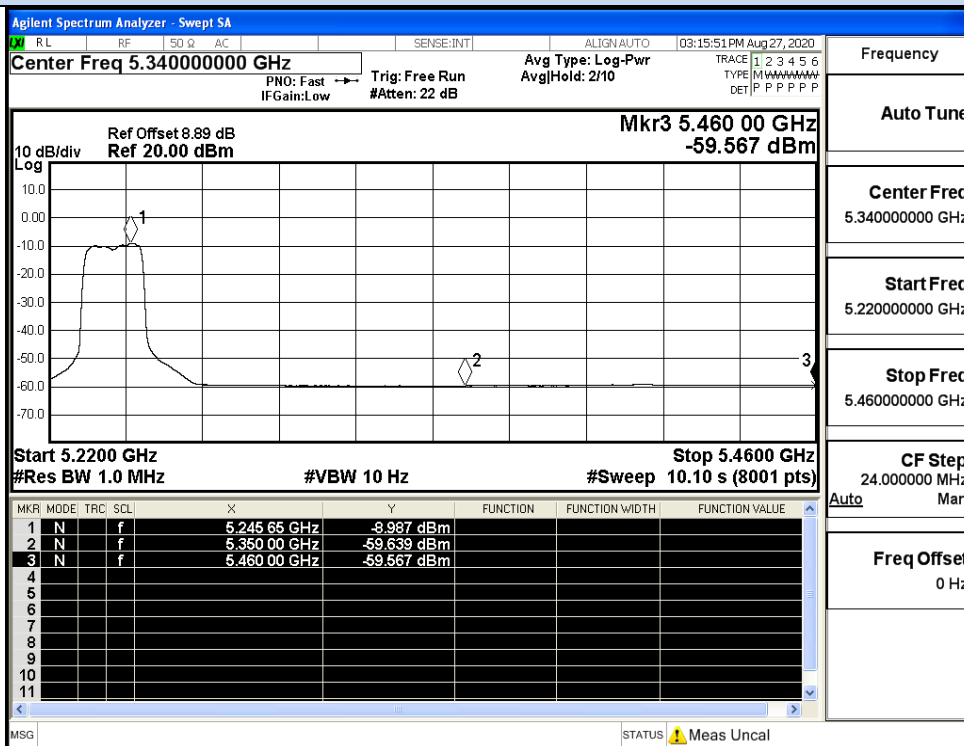
IEEE 802.11ac20 / Channel 36 / 5180MHz / Peak



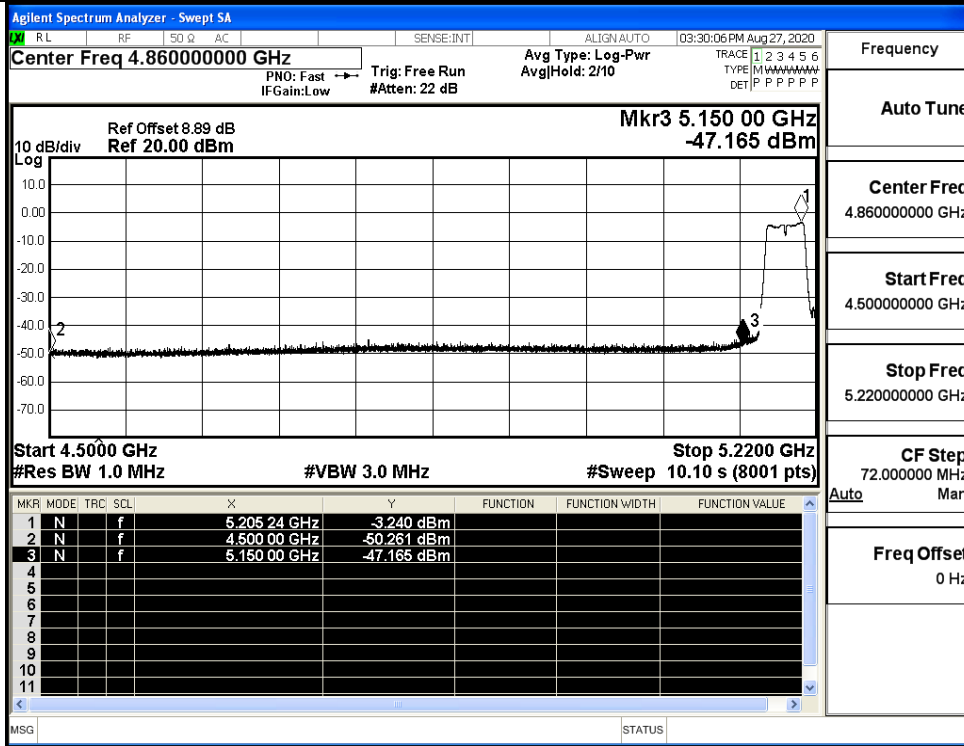
IEEE 802.11ac20 / Channel 36 / 5180MHz / Average



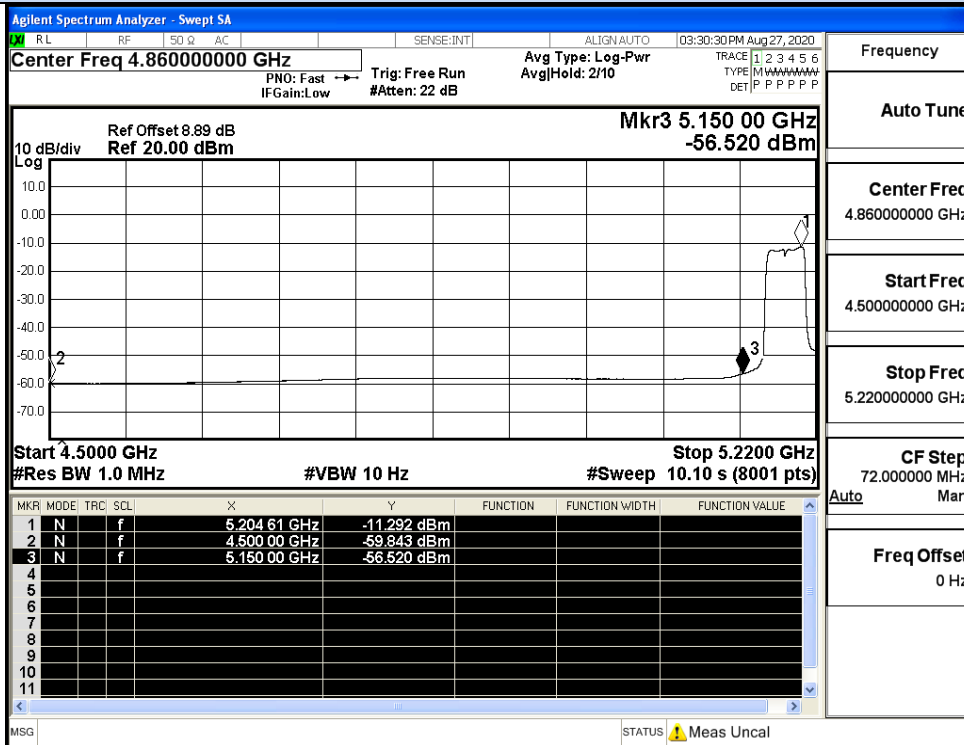
IEEE 802.11ac20 / Channel 48 / 5240MHz / Peak



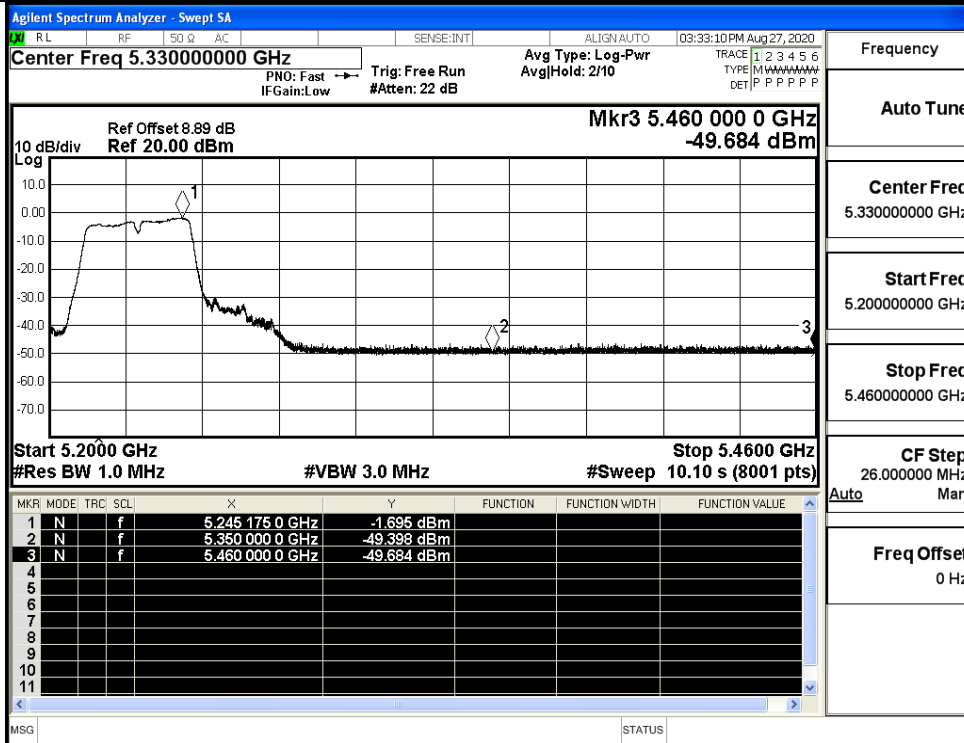
IEEE 802.11ac20 / Channel 48 / 5240MHz / Average



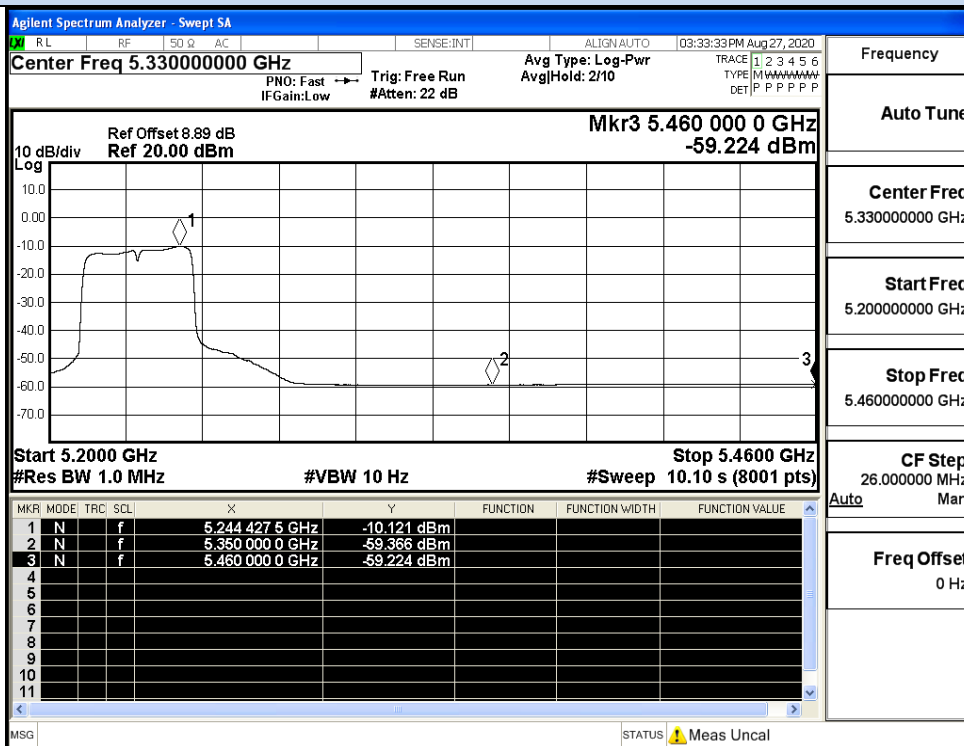
IEEE 802.11ac40 / Channel 38 / 5190MHz / Peak



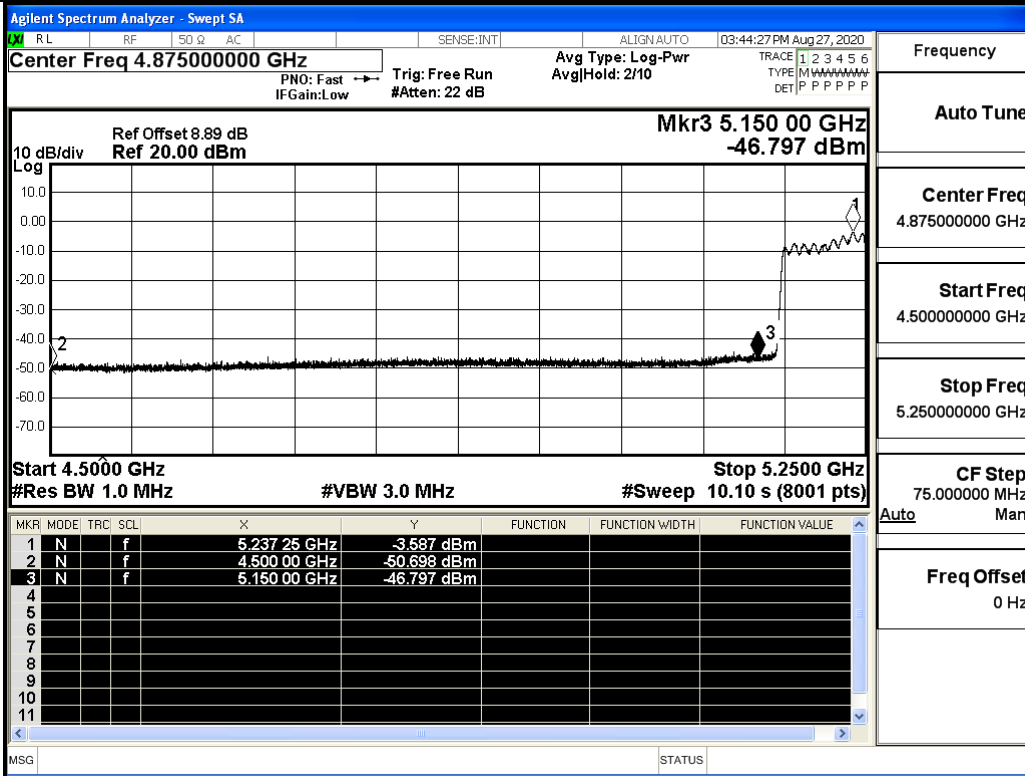
IEEE 802.11ac40 / Channel 38 / 5190MHz / Average



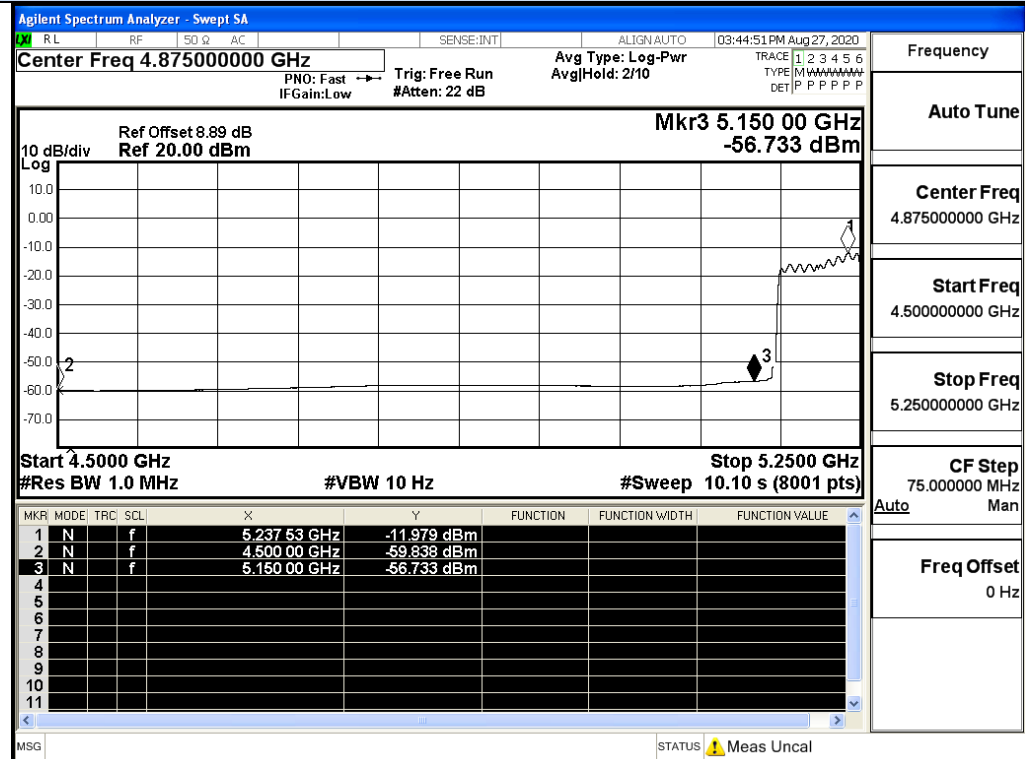
IEEE 802.11ac40 / Channel 46 / 5230MHz / Peak



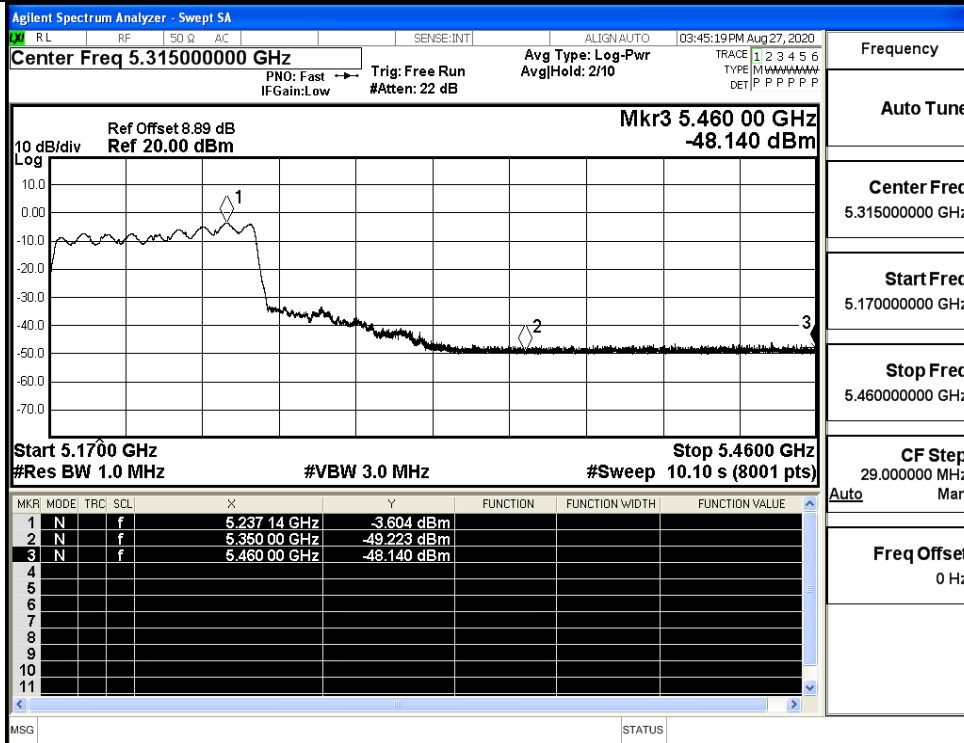
IEEE 802.11ac40 / Channel 46 / 5230MHz / Average



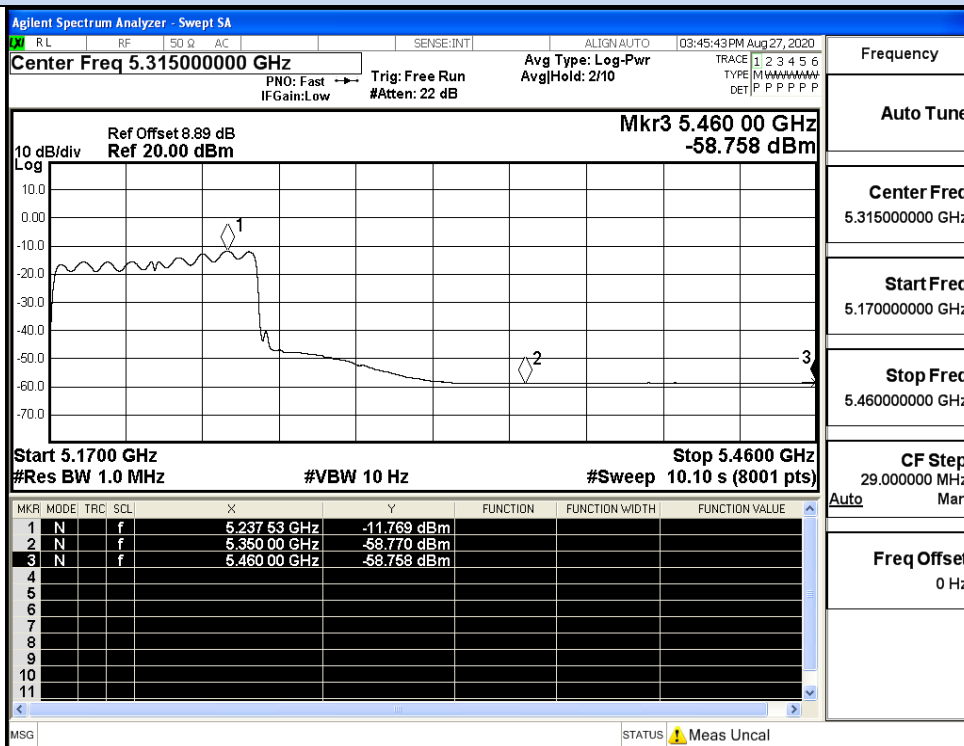
IEEE 802.11ac80 / Channel 42 / 5210MHz / Peak



IEEE 802.11ac80 / Channel 42 / 5210MHz / Average

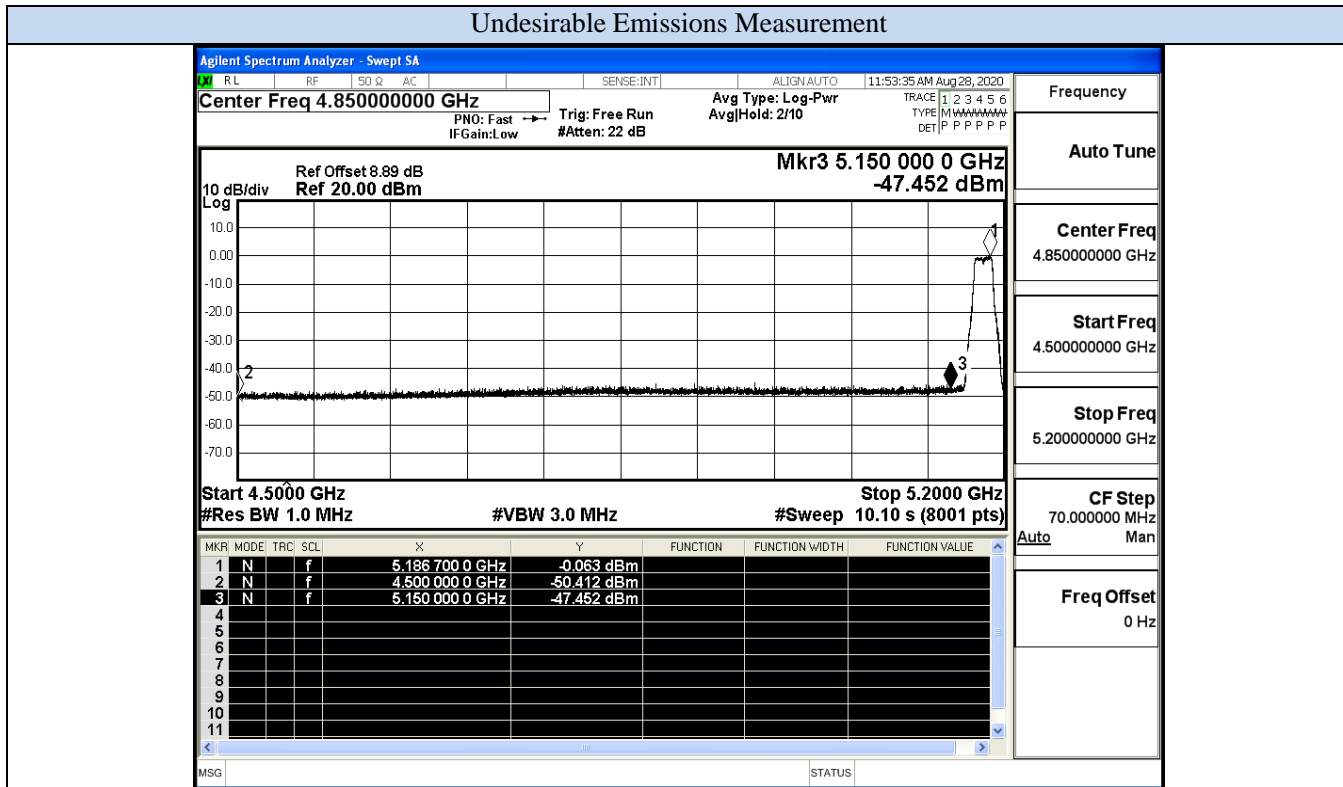


IEEE 802.11ac80 / Channel 42 / 5210MHz / Peak

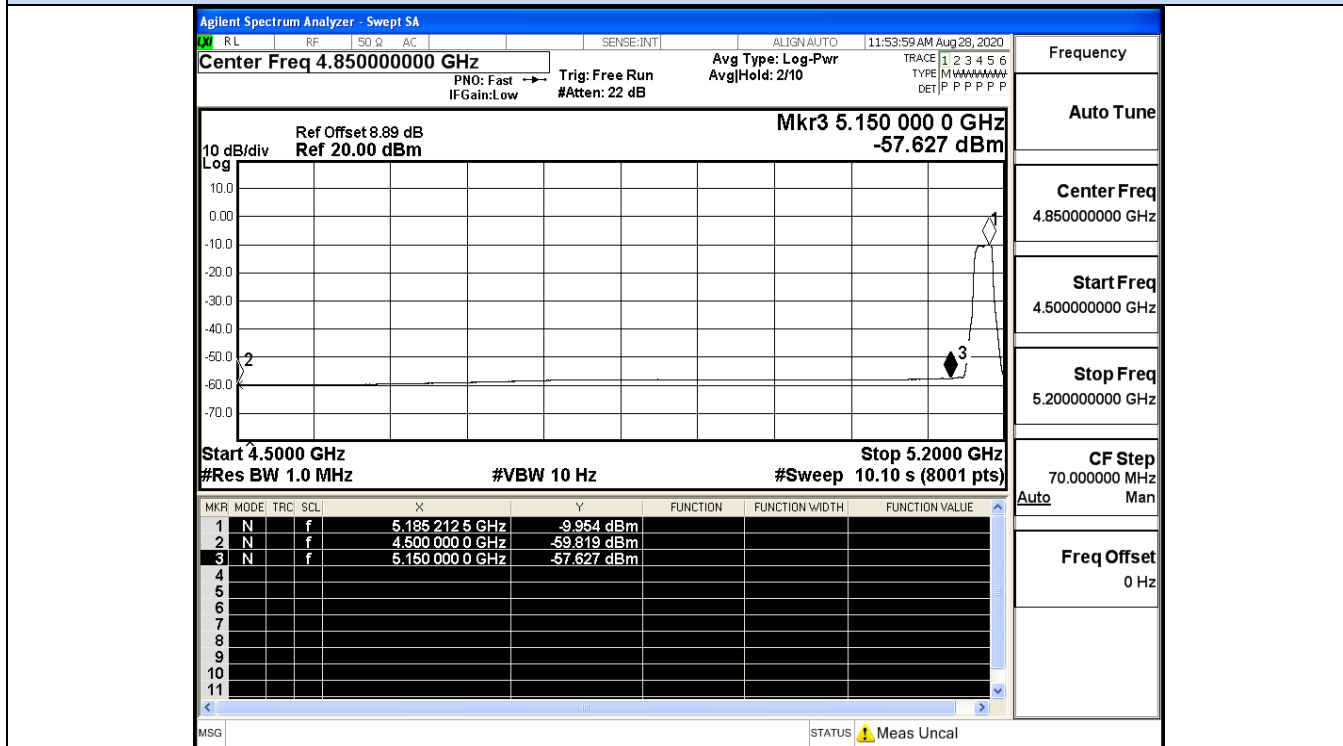


IEEE 802.11ac80 / Channel 42 / 5210MHz / Average

ANT2

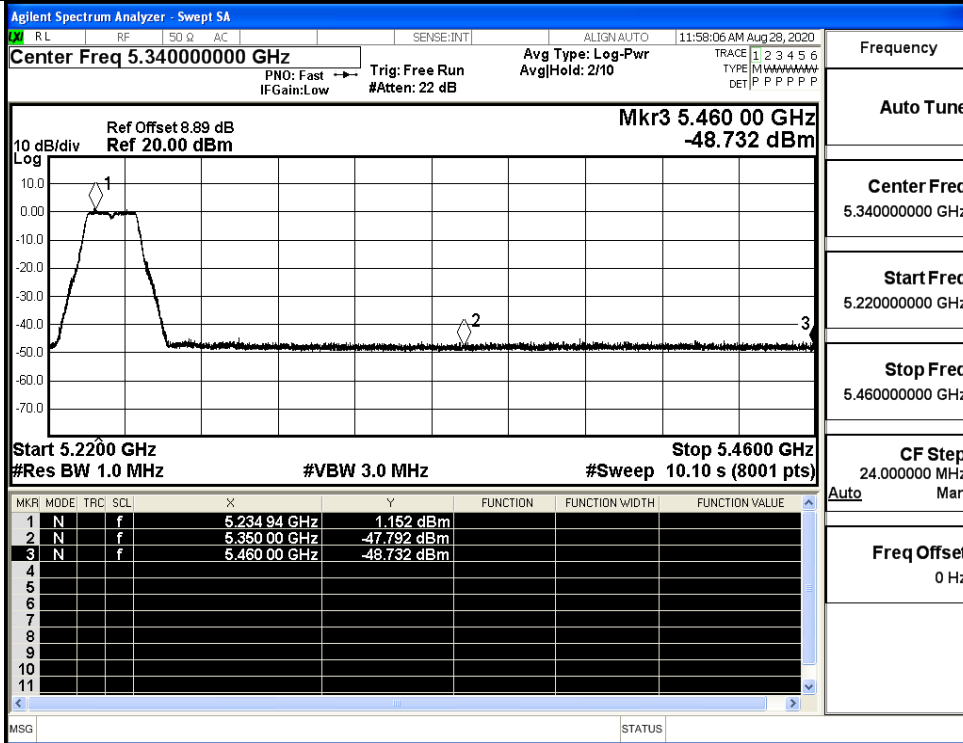


IEEE 802.11a / Channel 36 / 5180MHz / Peak

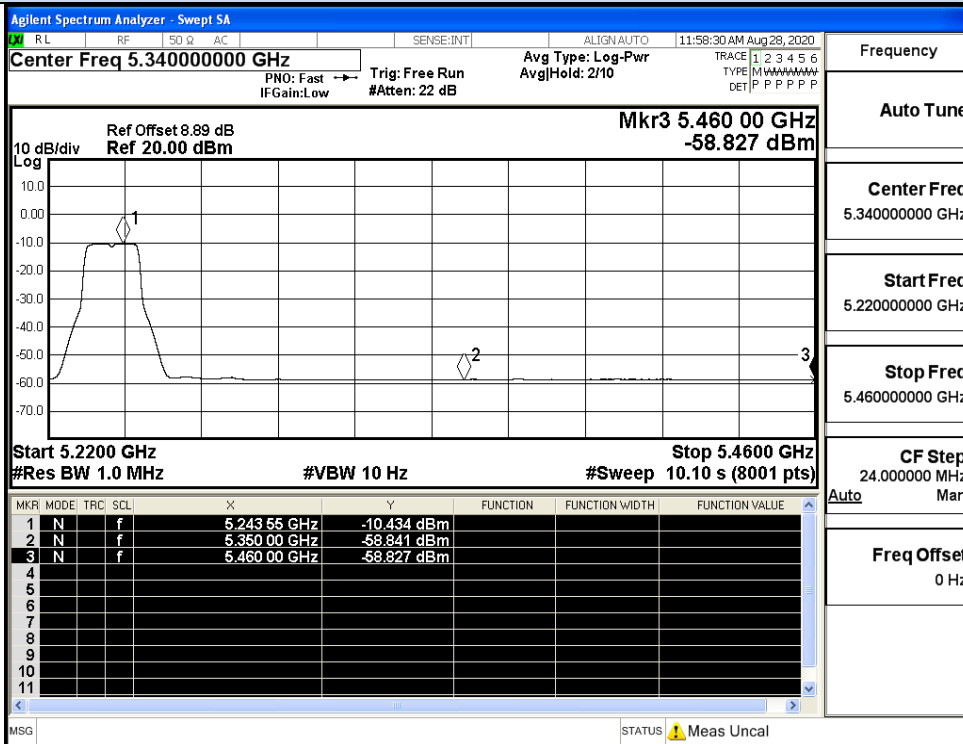


IEEE 802.11a / Channel 36 / 5180MHz / Average

Undesirable Emissions Measurement

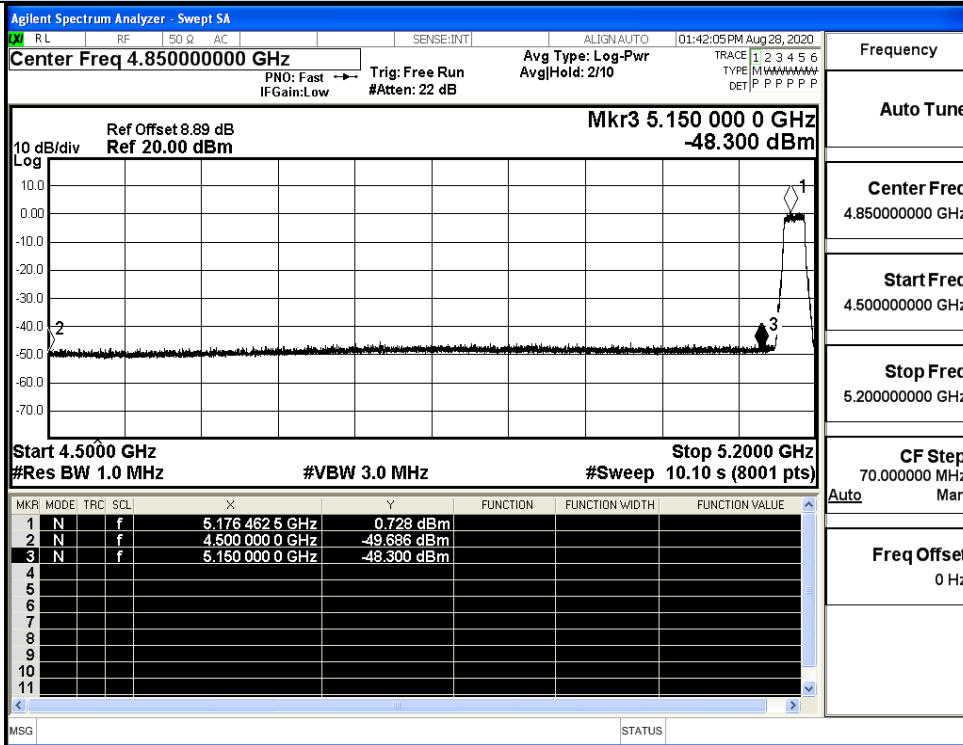


IEEE 802.11a / Channel 48 / 5240MHz / Peak

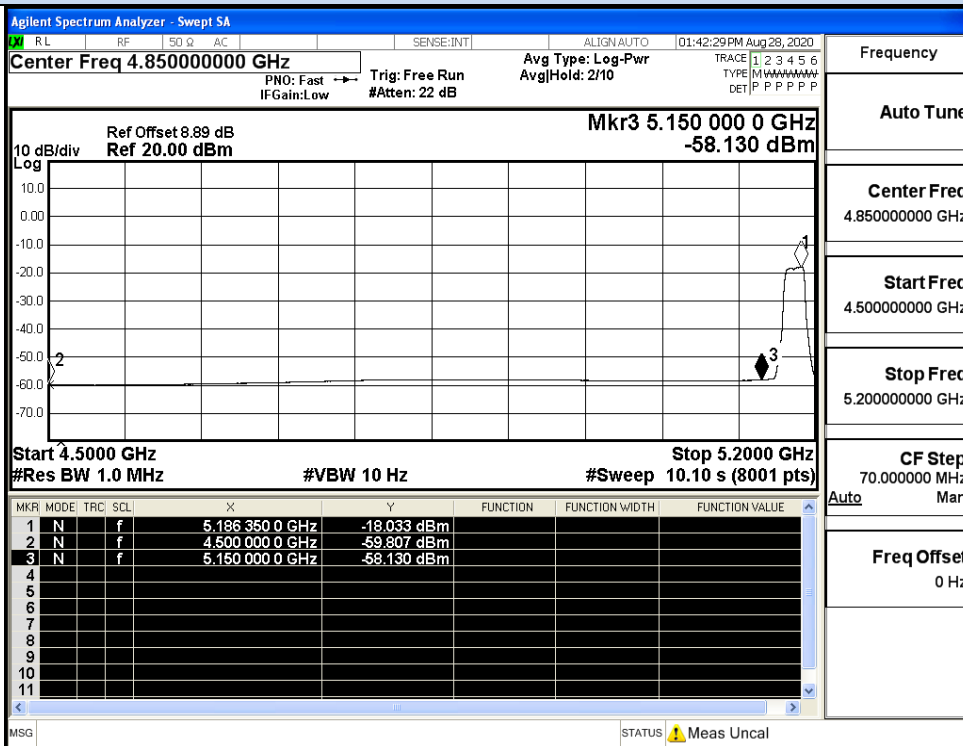


IEEE 802.11a / Channel 48 / 5240MHz / Average

Undesirable Emissions Measurement

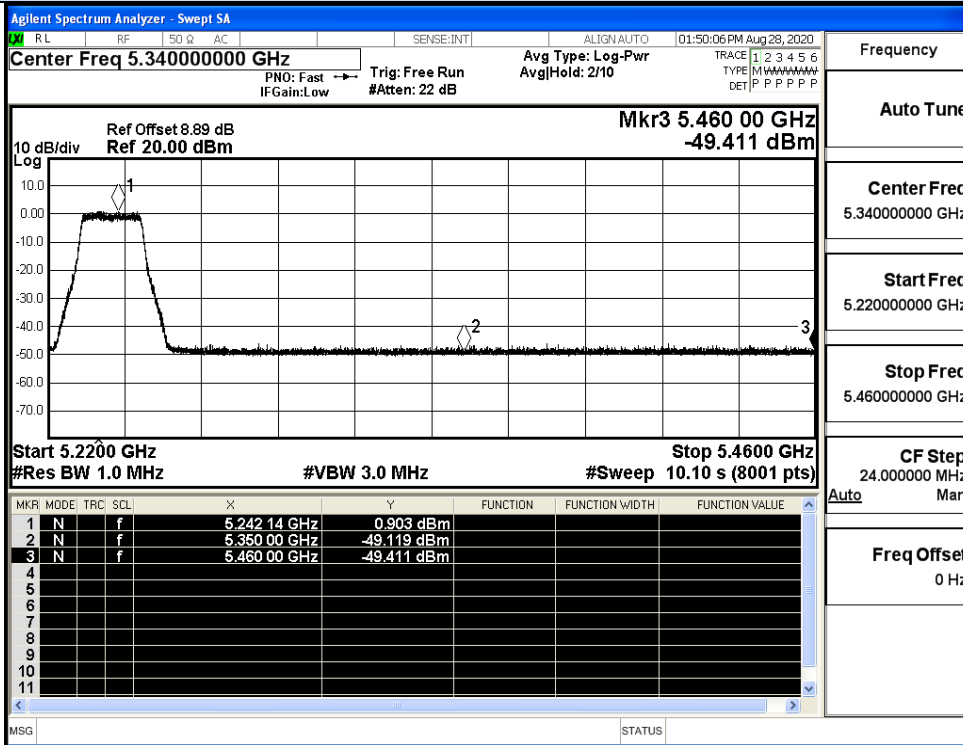


IEEE 802.11n20 / Channel 36 / 5180MHz / Peak

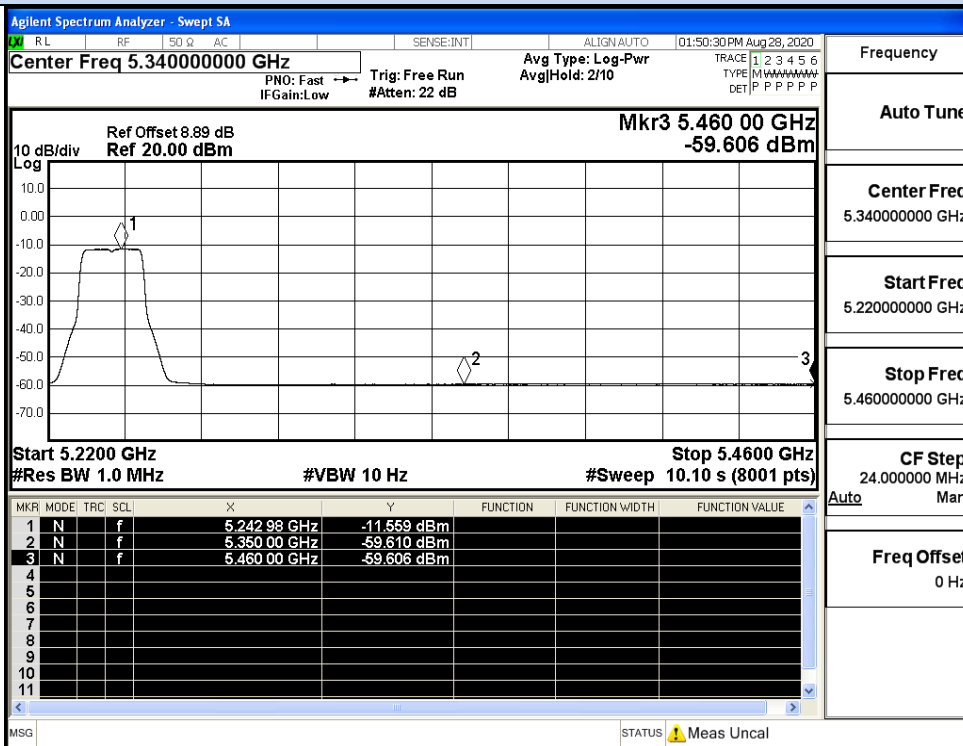


IEEE 802.11n20 / Channel 36 / 5180MHz / Average

Undesirable Emissions Measurement

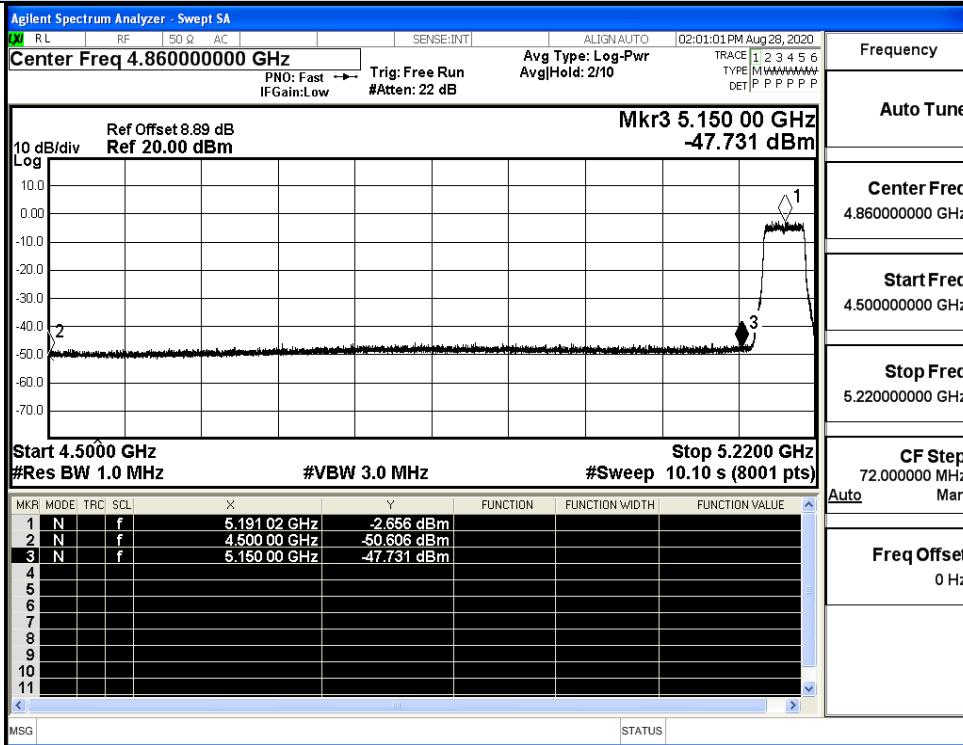


IEEE 802.11n20 / Channel 48 / 5240MHz / Peak

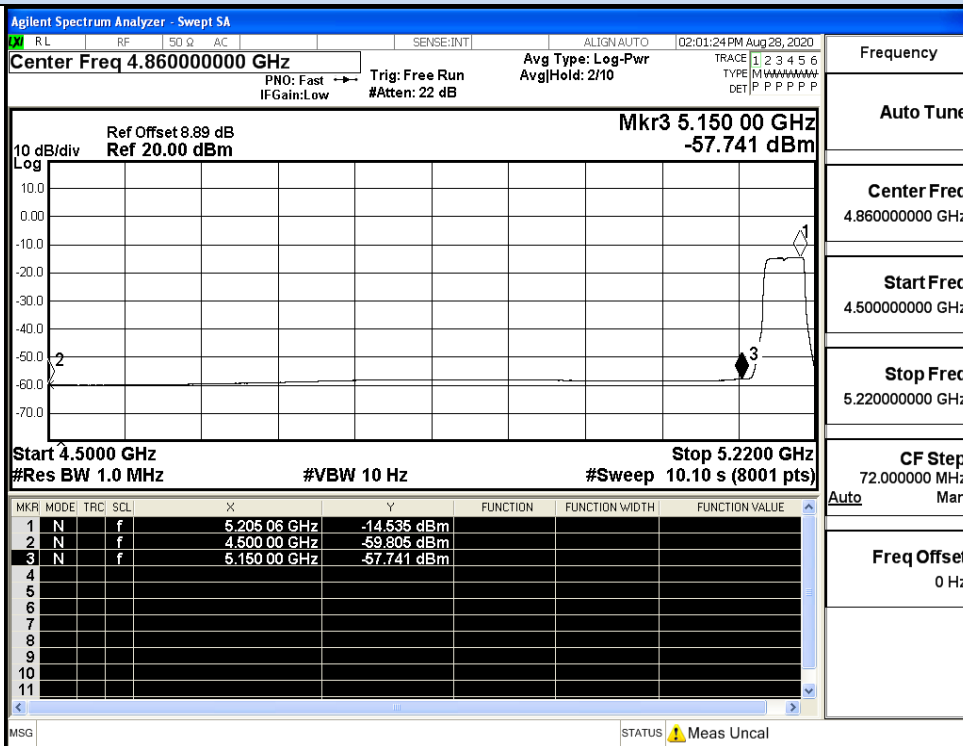


IEEE 802.11n20 / Channel 48 / 5240MHz / Average

Undesirable Emissions Measurement

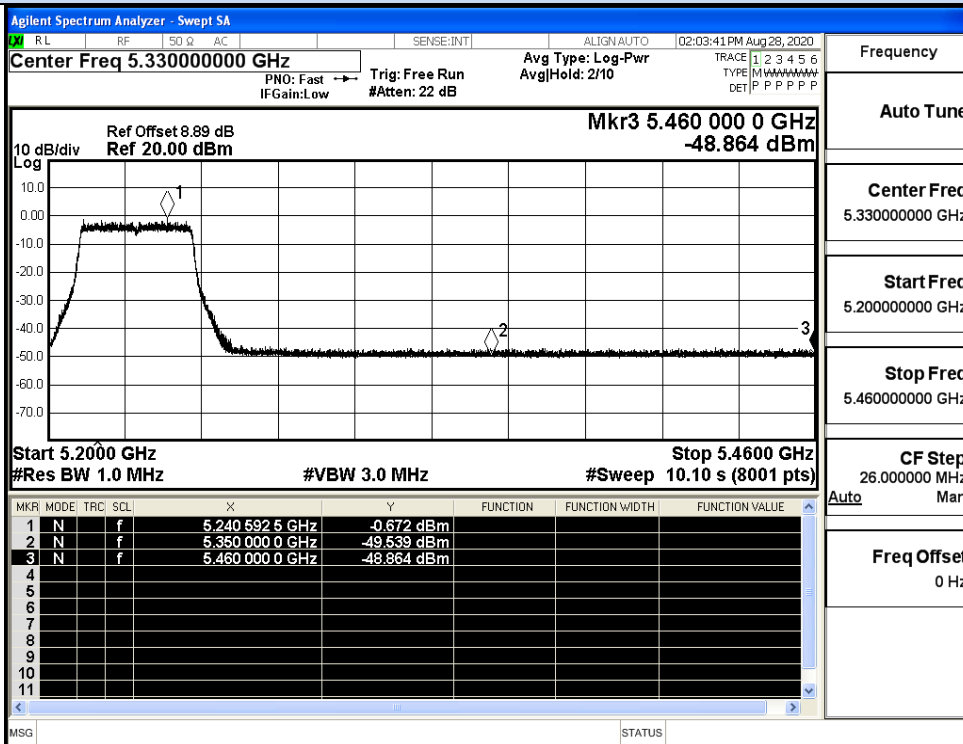


IEEE 802.11n40 / Channel 38 / 5190MHz / Peak

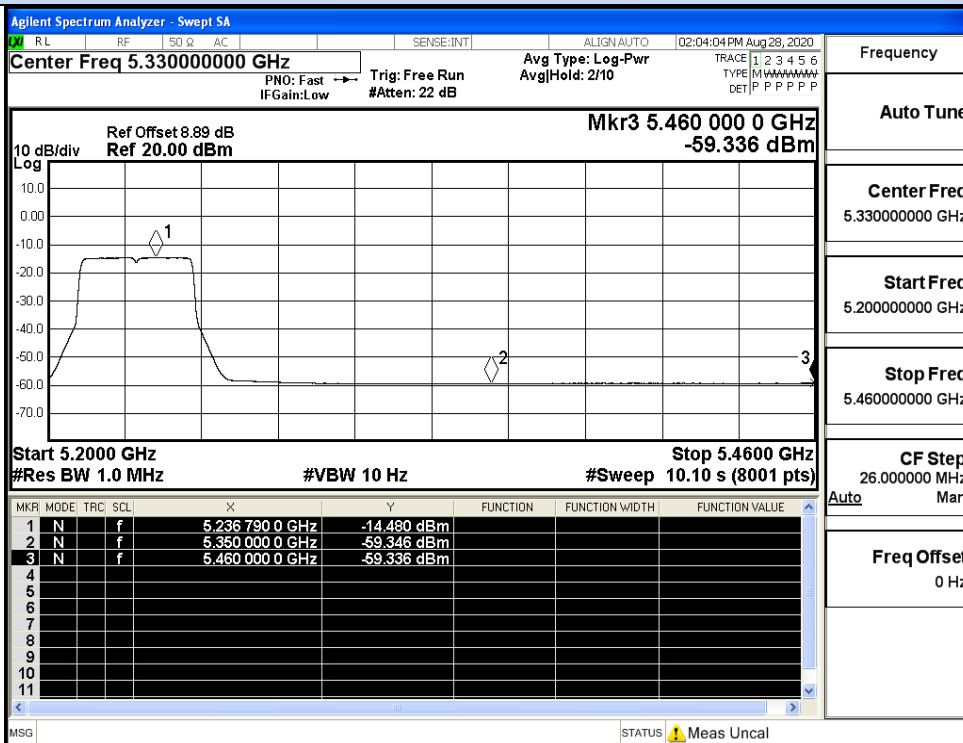


IEEE 802.11n40 / Channel 38 / 5190MHz / Average

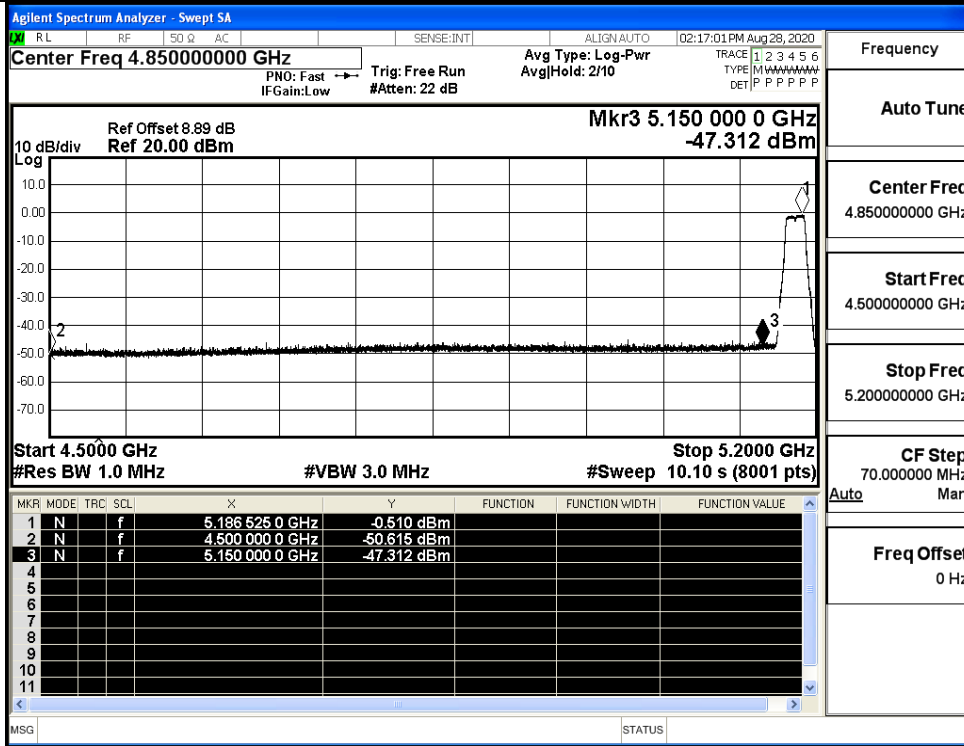
Undesirable Emissions Measurement



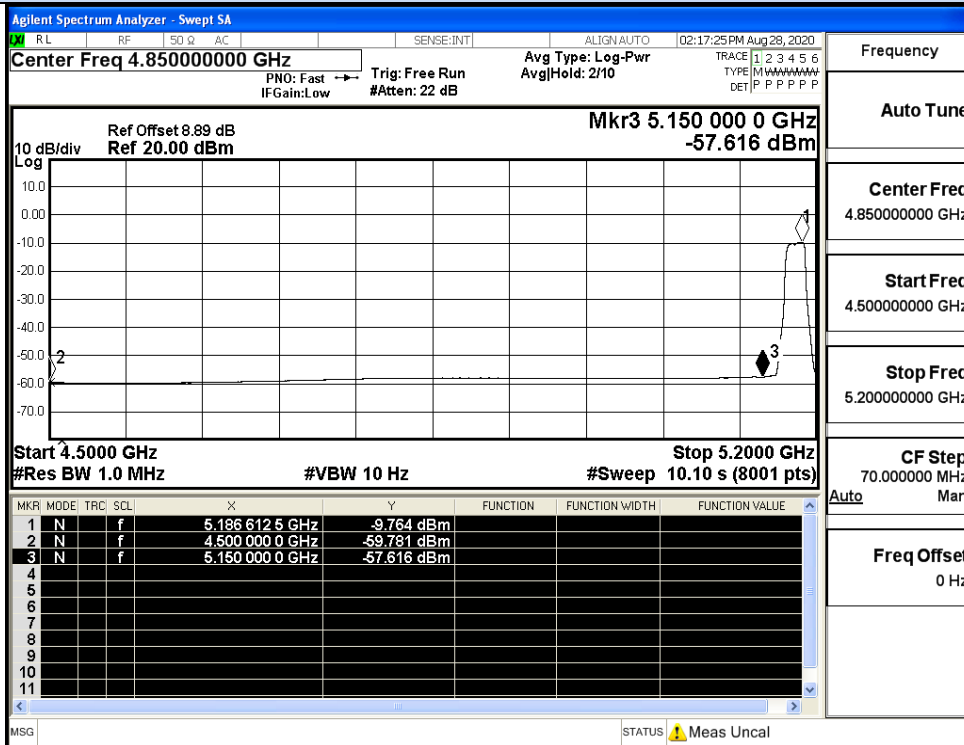
IEEE 802.11n40 / Channel 46 / 5230MHz / Peak



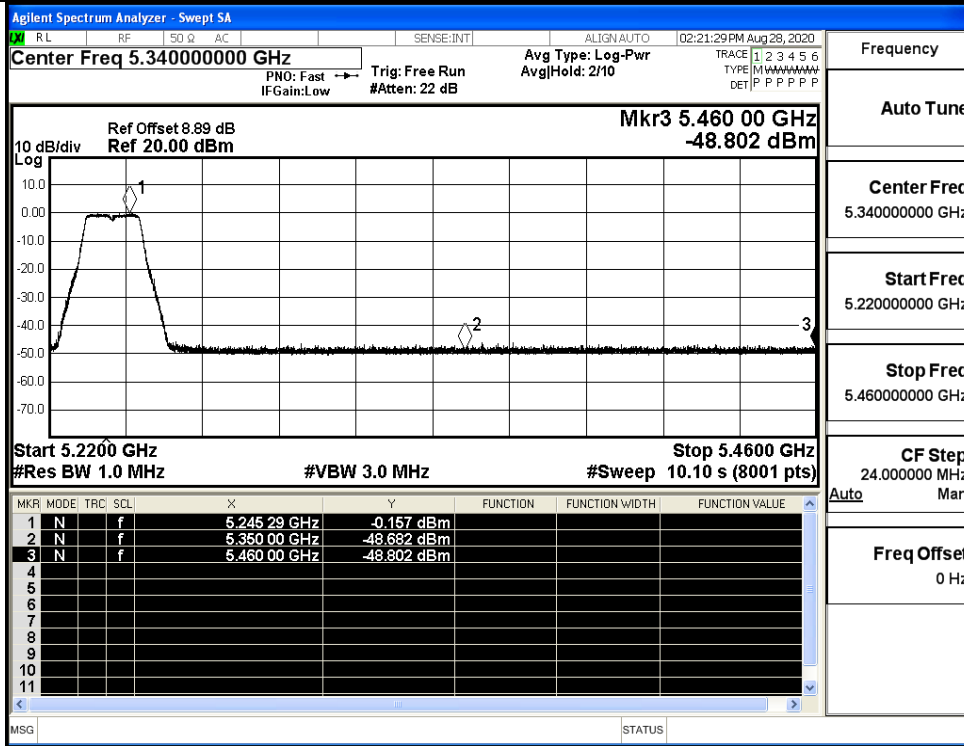
IEEE 802.11n40 / Channel 46 / 5230MHz / Average



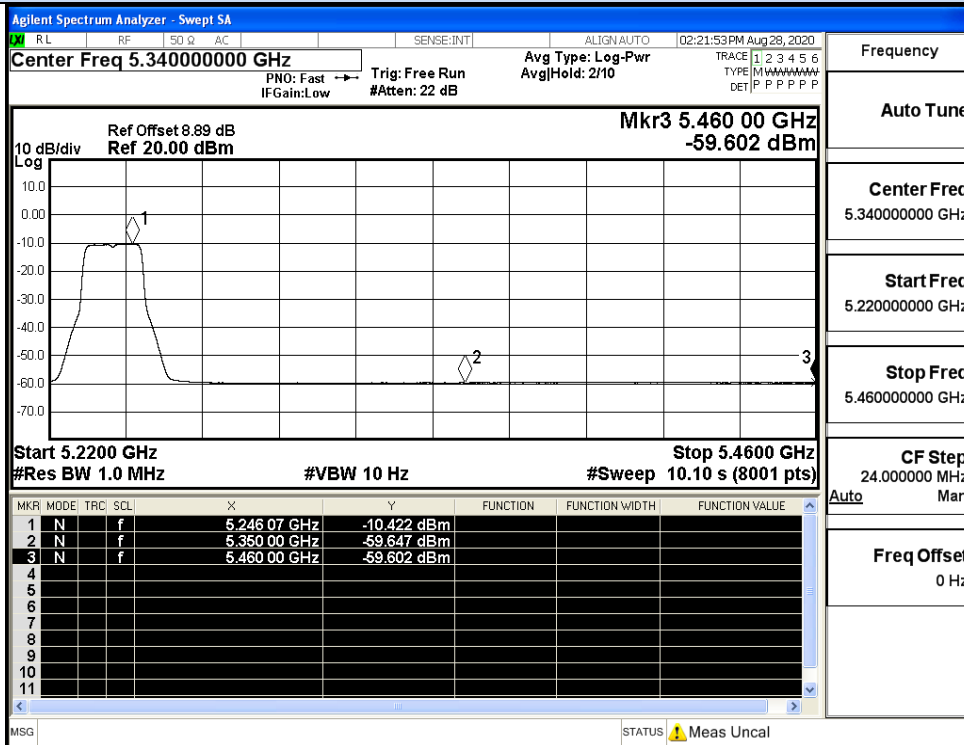
IEEE 802.11ac20 / Channel 36 / 5180MHz / Peak



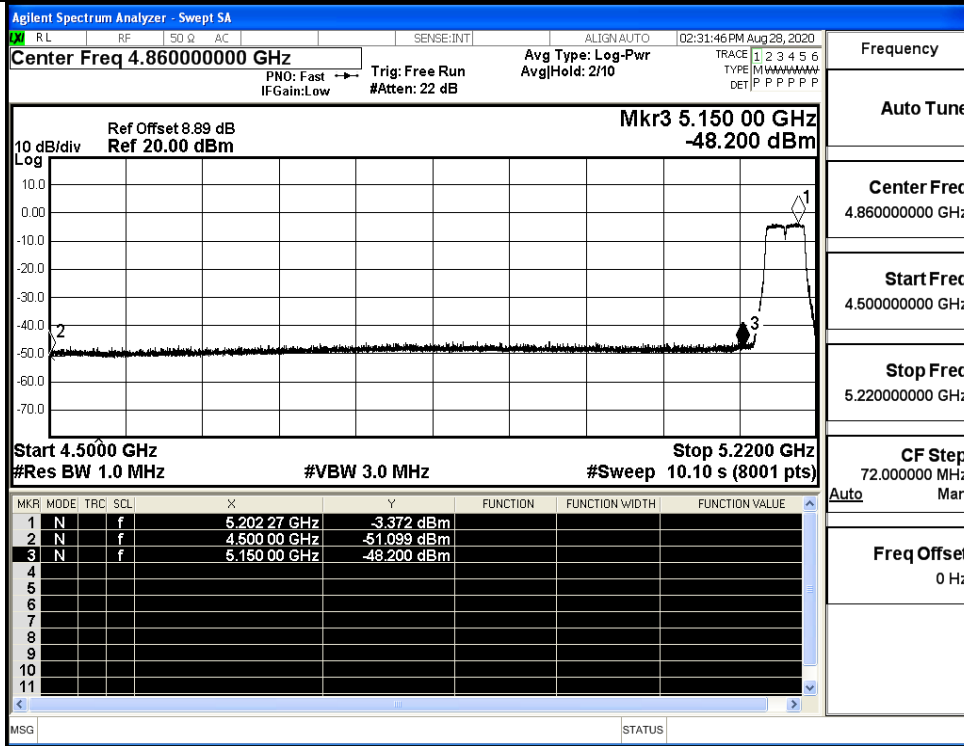
IEEE 802.11ac20 / Channel 36 / 5180MHz / Average



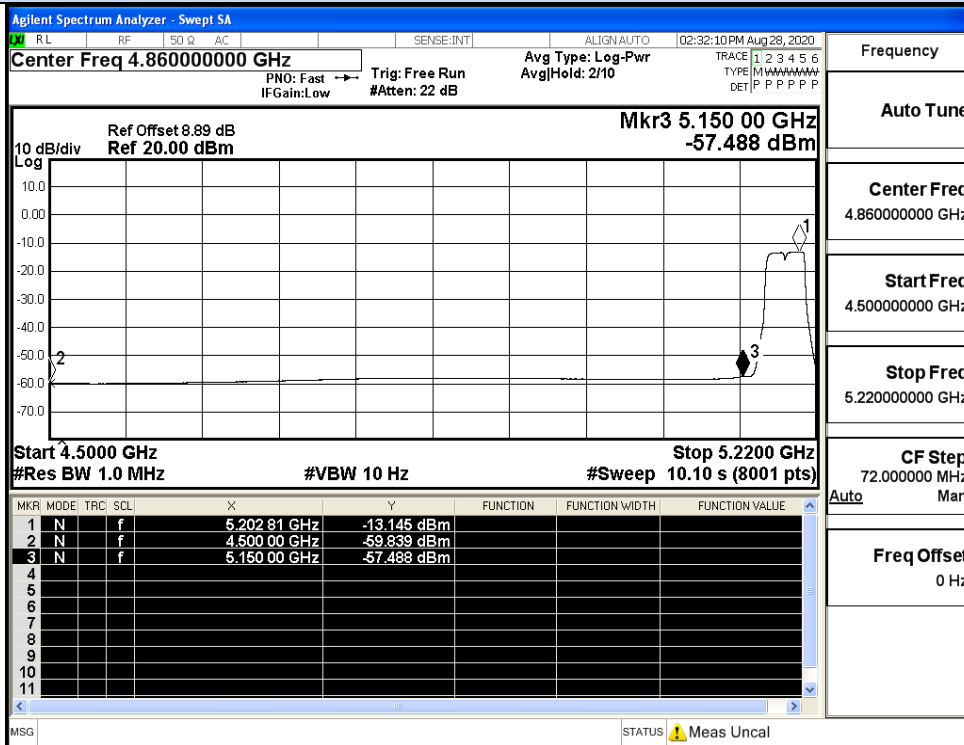
IEEE 802.11ac20 / Channel 48 / 5240MHz / Peak



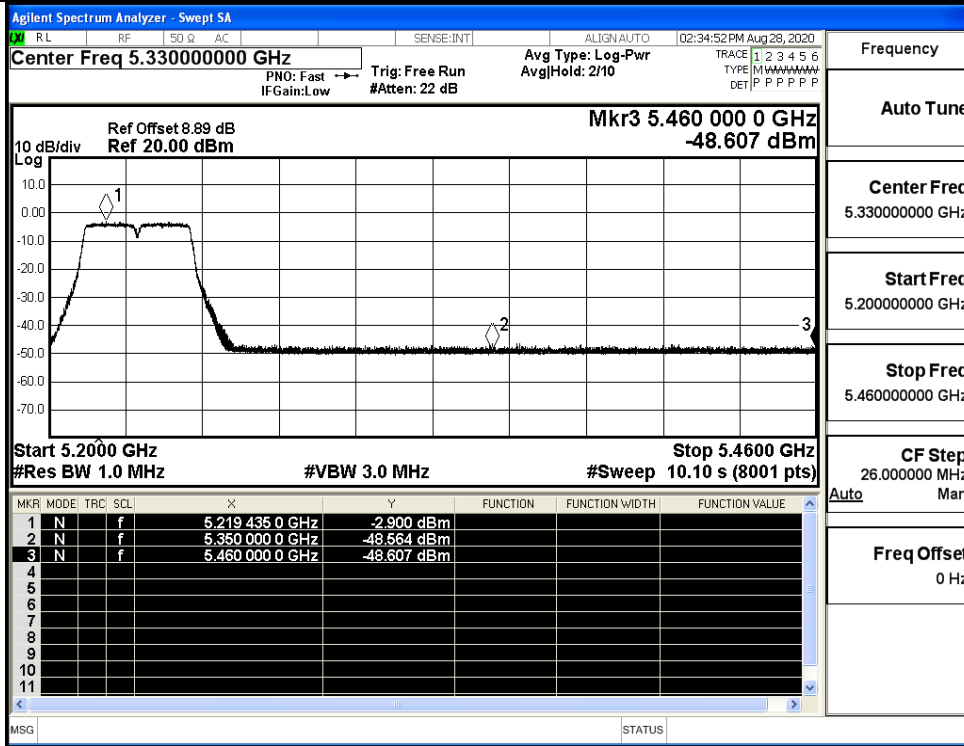
IEEE 802.11ac20 / Channel 48 / 5240MHz / Average



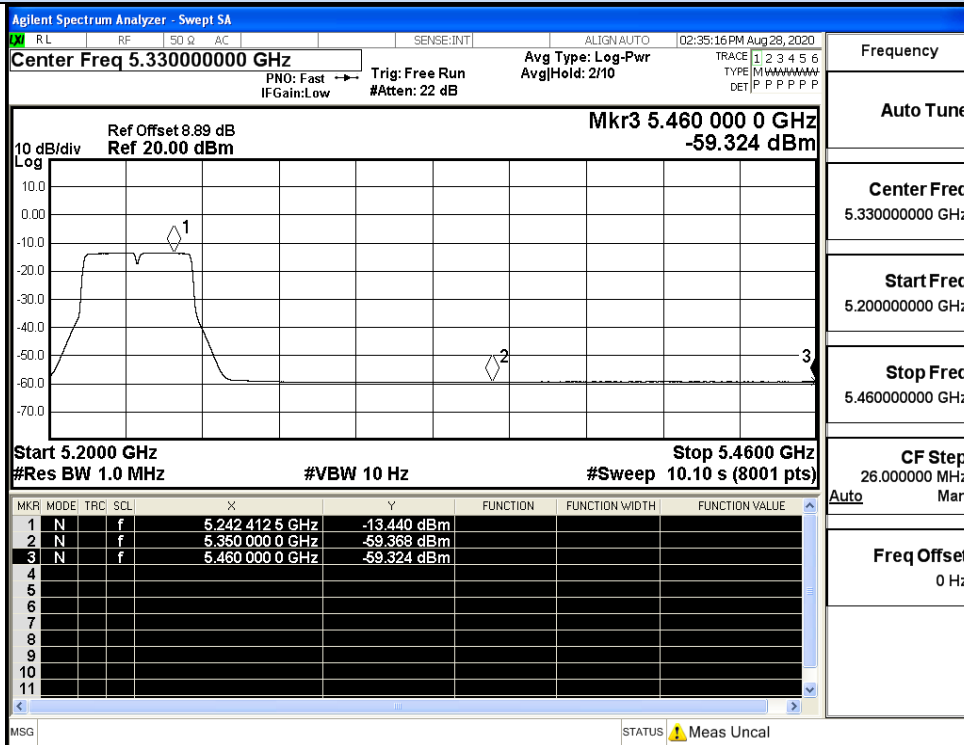
IEEE 802.11ac40 / Channel 38 / 5190MHz / Peak



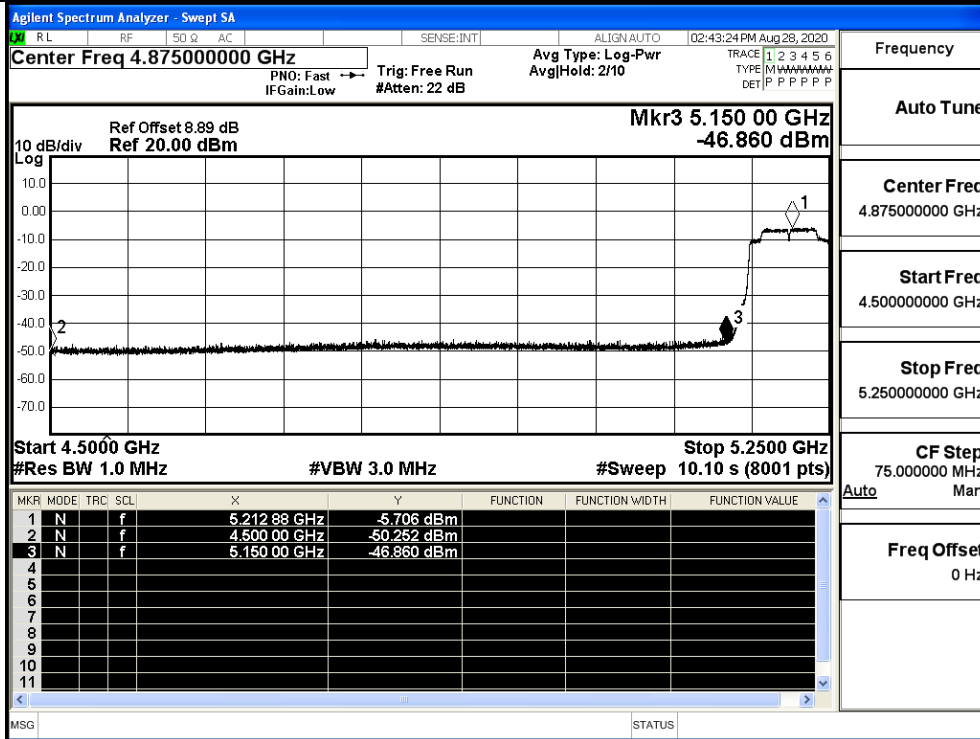
IEEE 802.11ac40 / Channel 38 / 5190MHz / Average



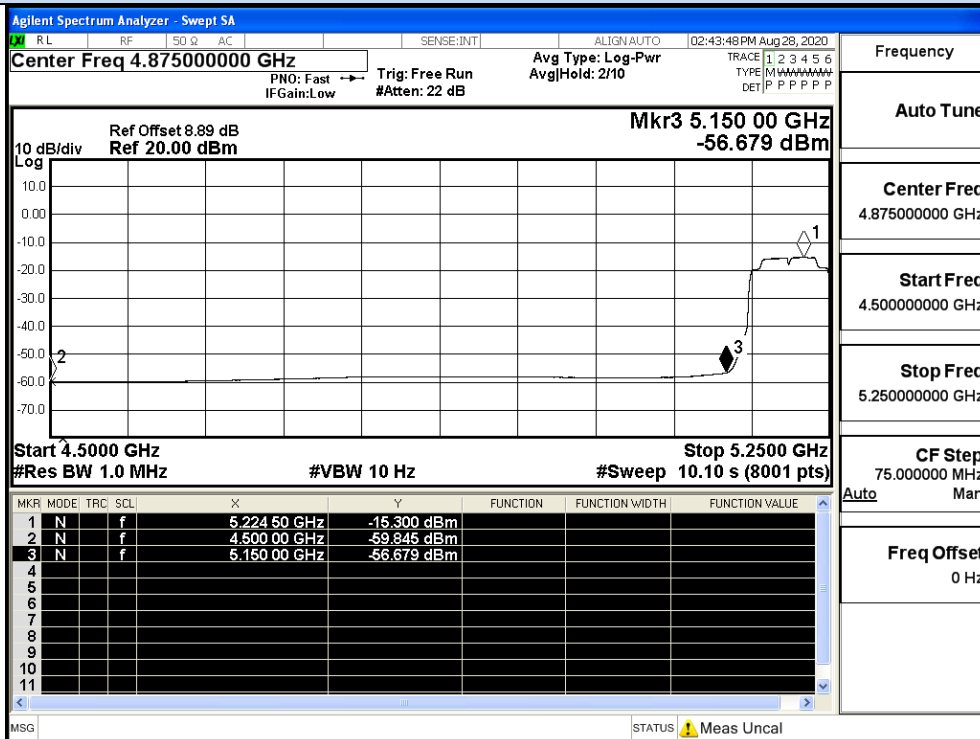
IEEE 802.11ac40 / Channel 46 / 5230MHz / Peak



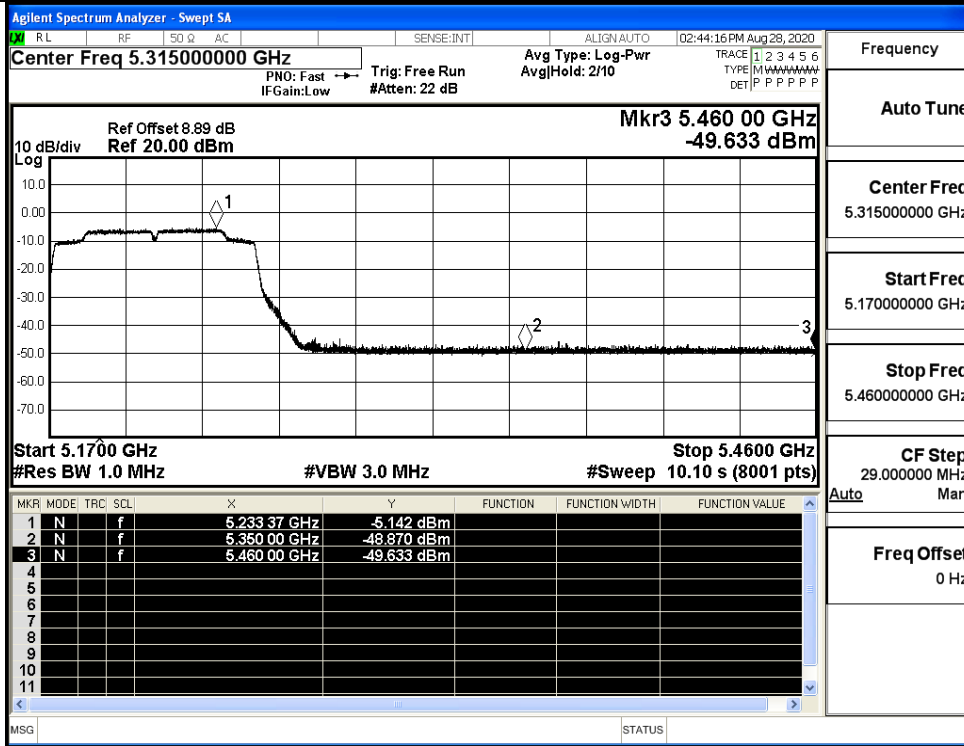
IEEE 802.11ac40 / Channel 46 / 5230MHz / Average



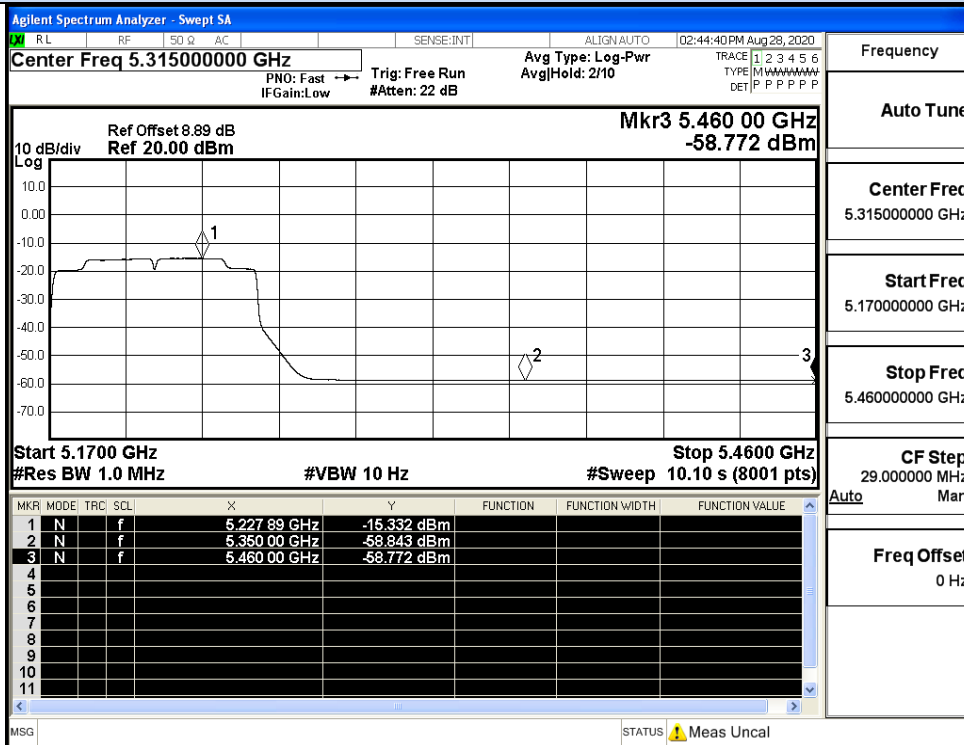
IEEE 802.11ac80 / Channel 42 / 5210MHz / Peak



IEEE 802.11ac80 / Channel 42 / 5210MHz / Average



IEEE 802.11ac80 / Channel 42 / 5210MHz / Peak



IEEE 802.11ac80 / Channel 42 / 5210MHz / Average