

Appendix B

RF Test Data for 5.2G WLAN (Conducted Measurement)

Product Name: Wireless Repeater/AP/Router

Trade Mark: N/A

Test Model: E1322

Environmental Conditions

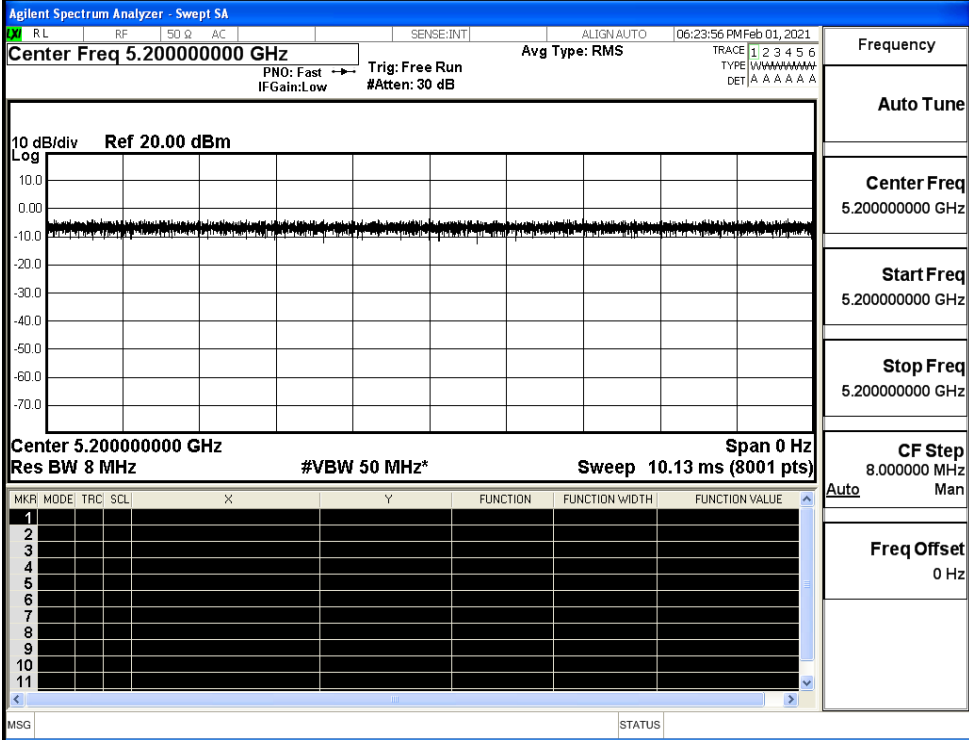
Temperature:	22.1 ° C
Relative Humidity:	53.4%
ATM Pressure:	100.0 kPa
Test Engineer:	Carl Fu
Supervised by:	Li Huan

B.1 Duty Cycle

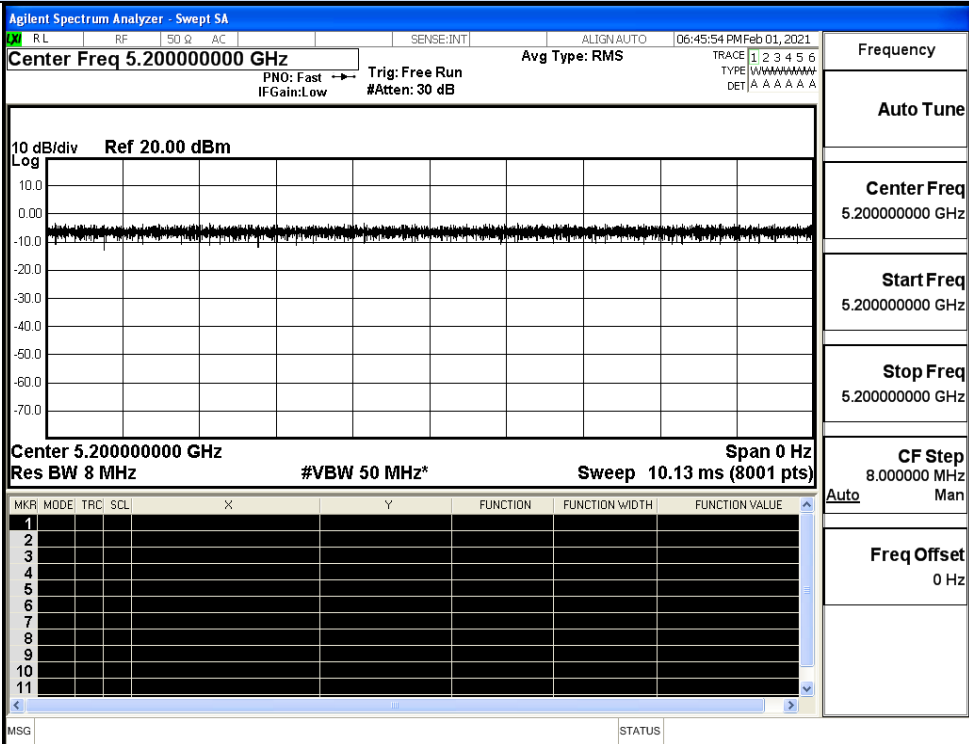
ANT0

Test Mode	Test Frequency (MHz)	Duty Cycle (%)	10log(1/x) Factor (dB)	1/B Minimum VBW(KHz)
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

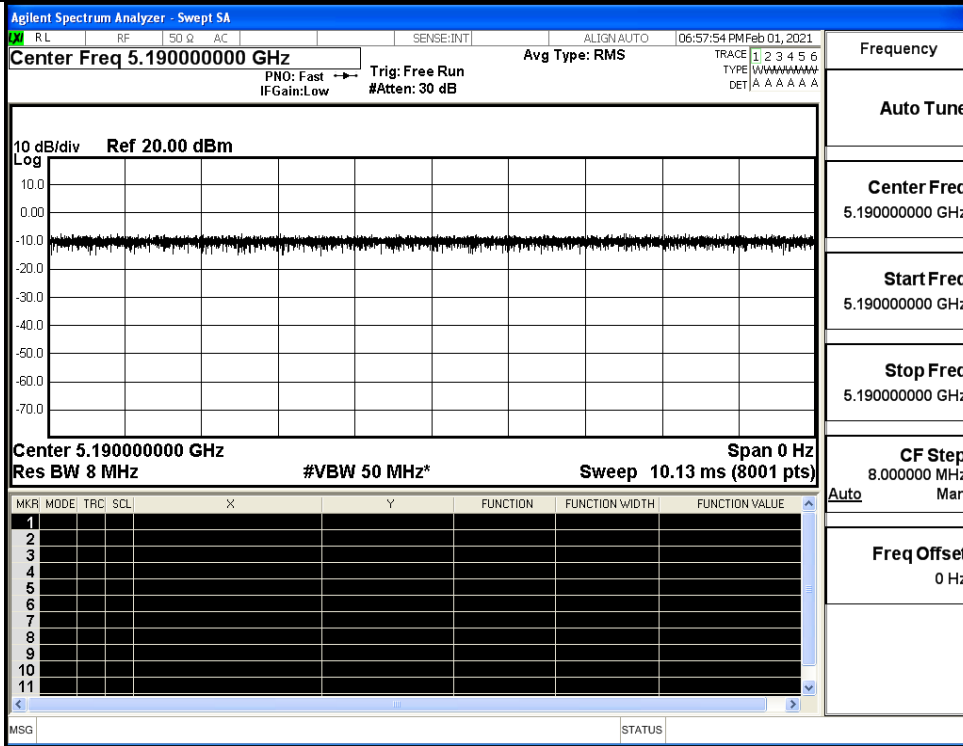
On Time and Duty Cycle



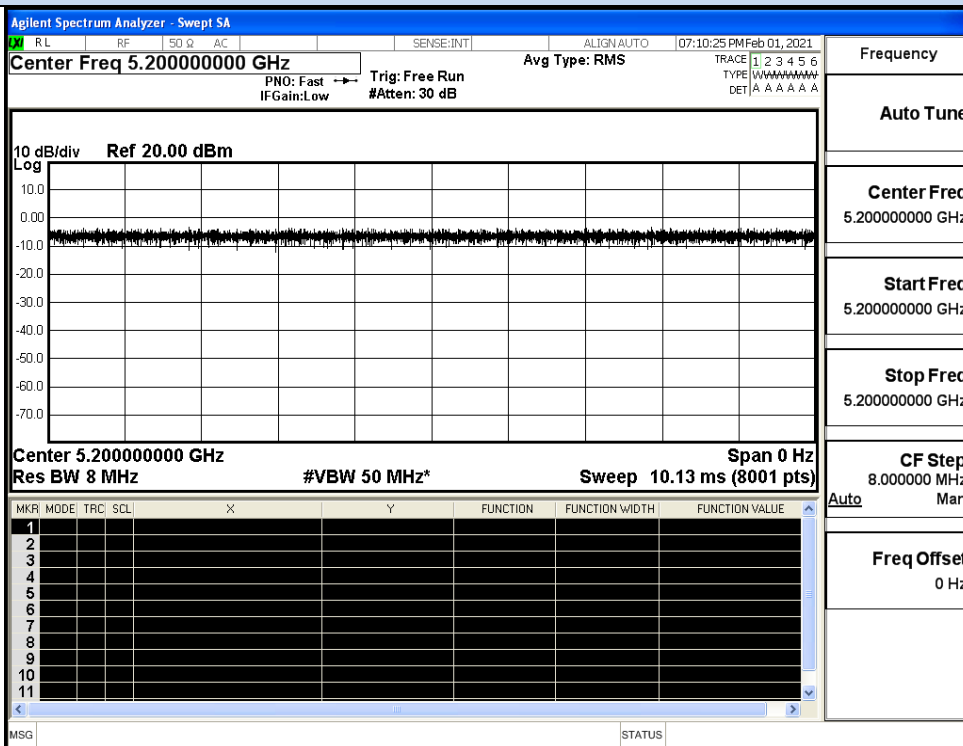
IEEE 802.11a



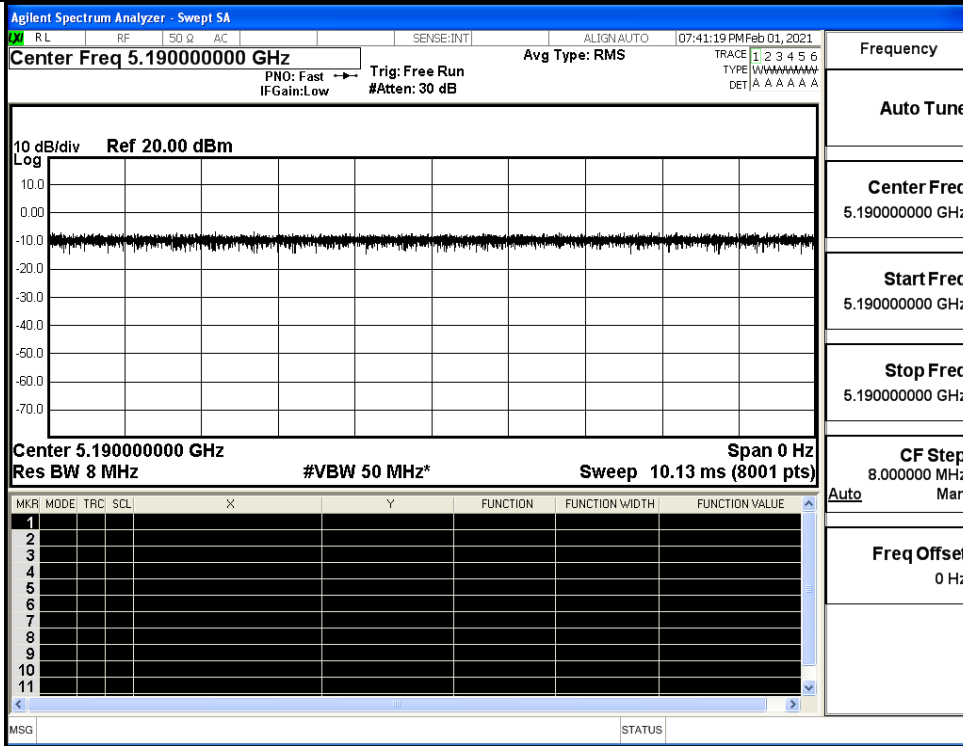
IEEE 802.11n HT20



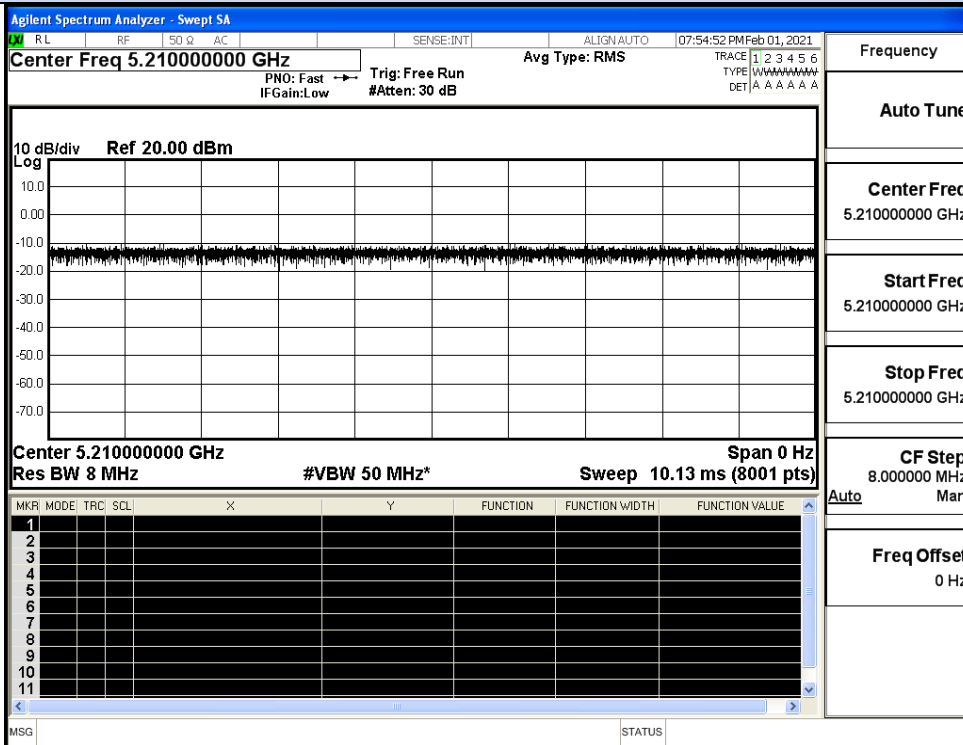
IEEE 802.11n HT40



IEEE 802.11AC20



IEEE 802.11 AC40

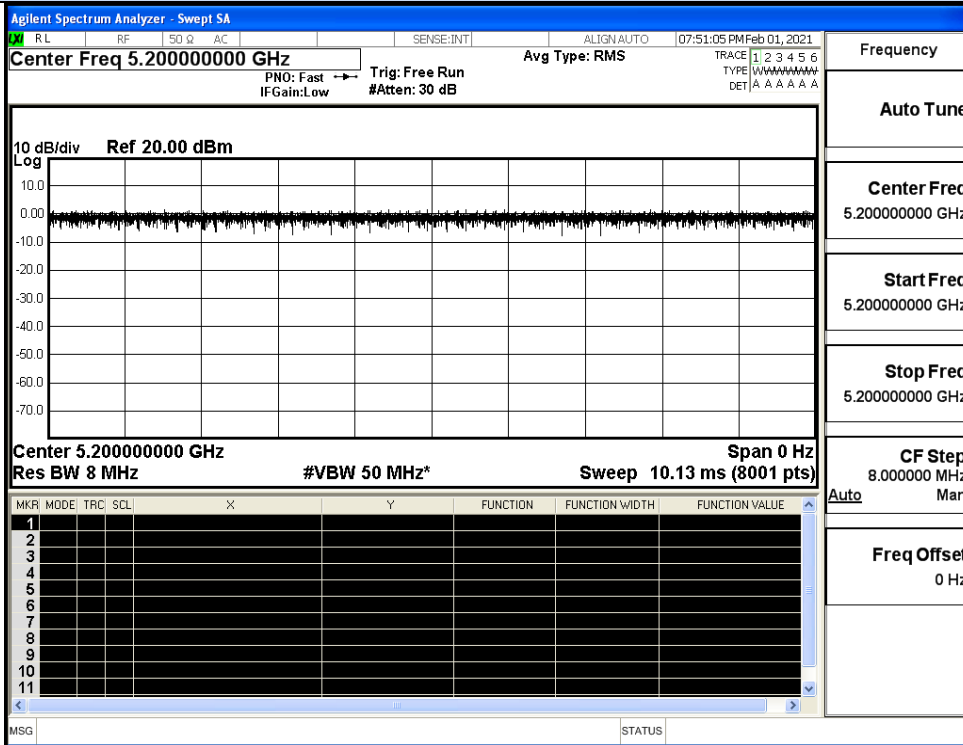


IEEE 802.11AC80

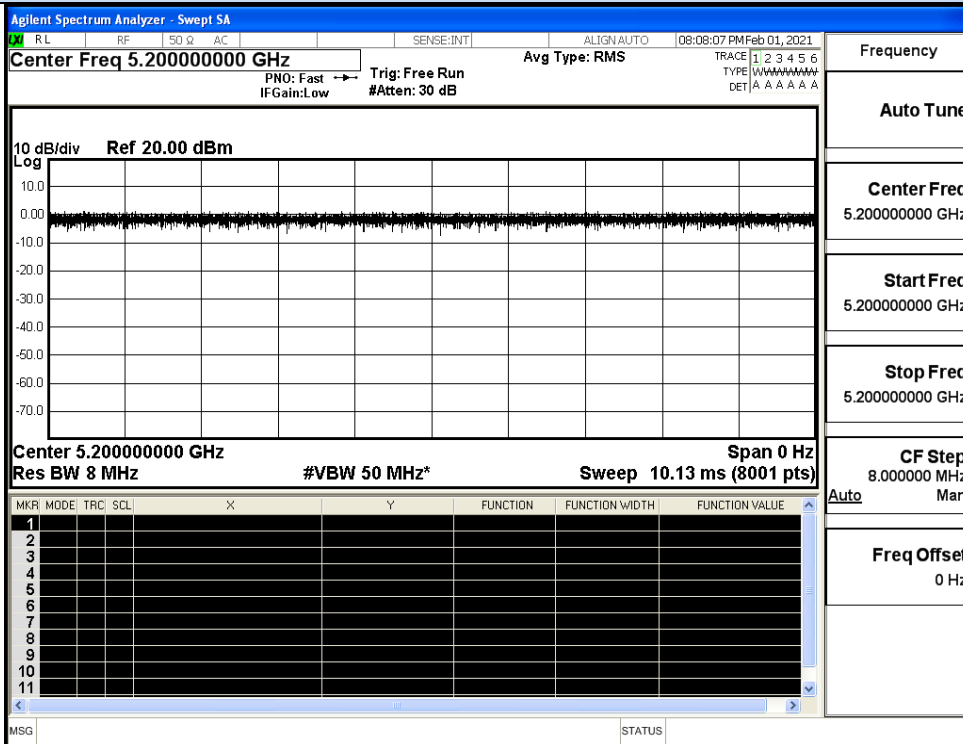
ANT1

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

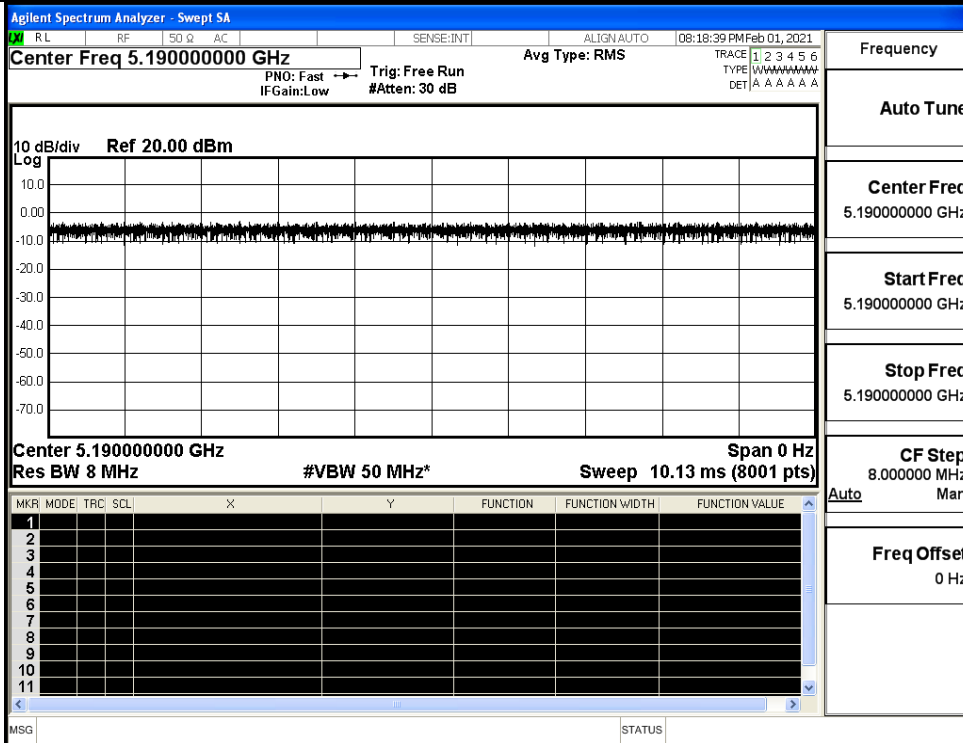
On Time and Duty Cycle



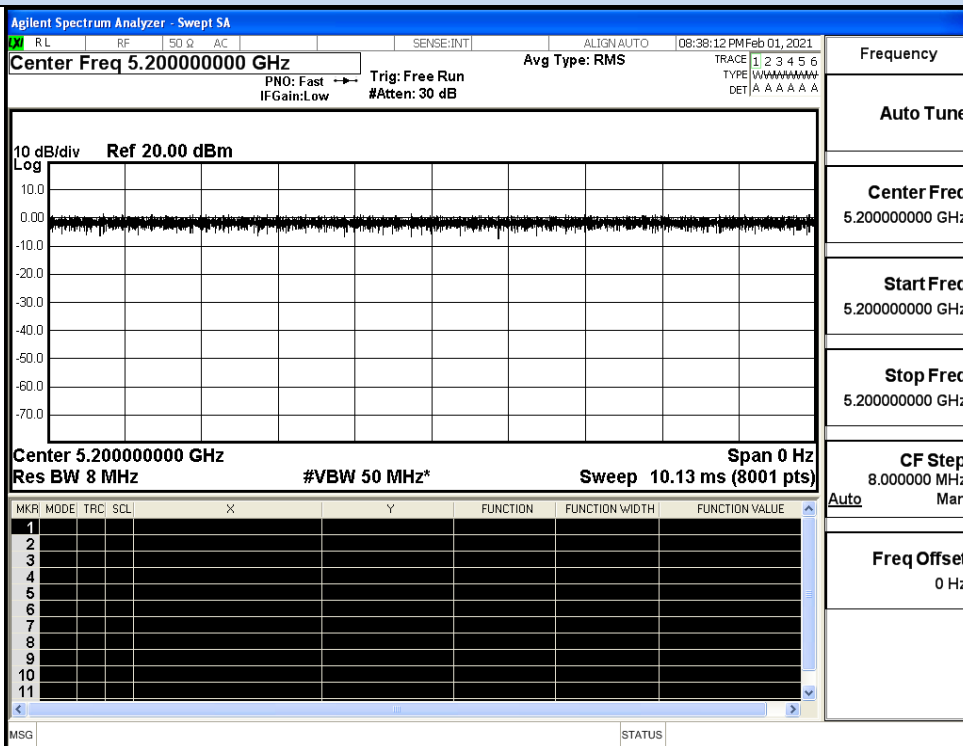
IEEE 802.11a



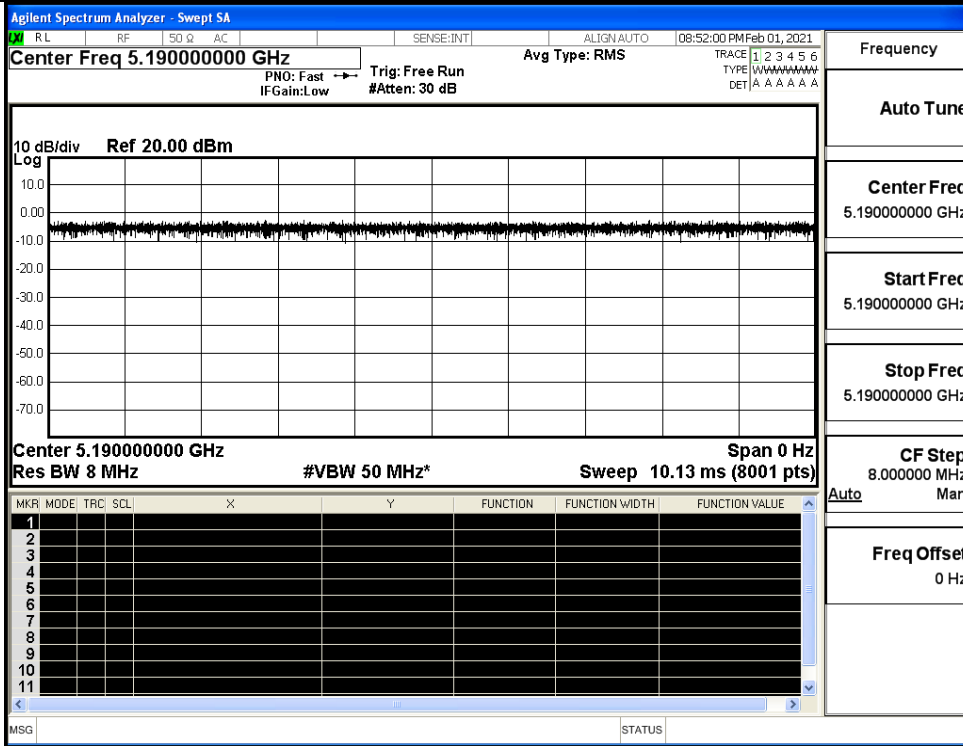
IEEE 802.11n HT20



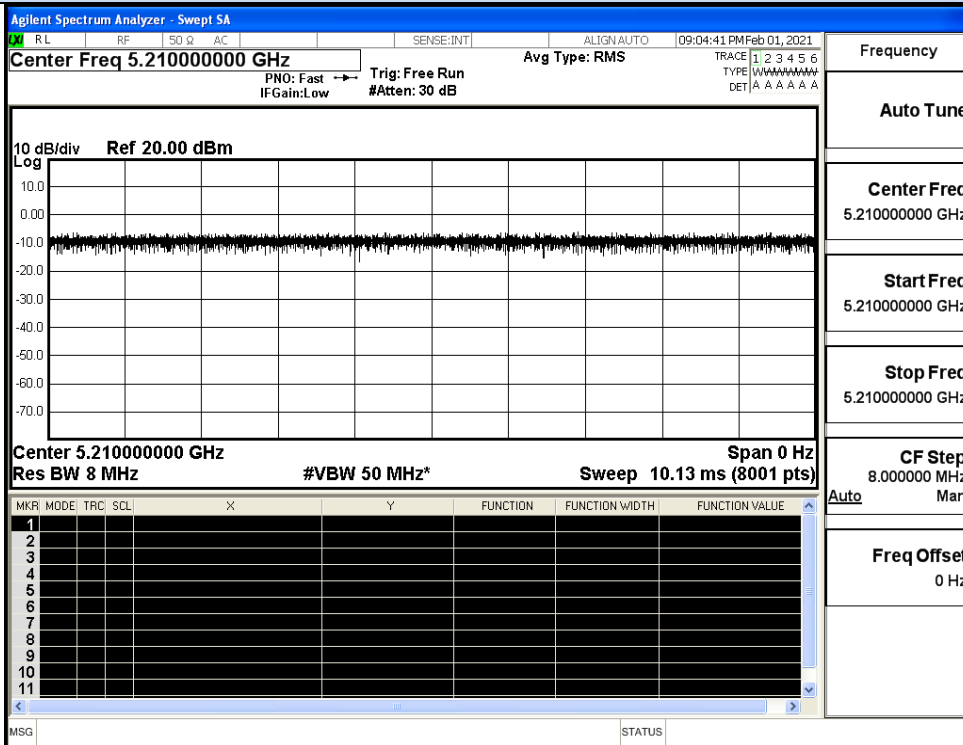
IEEE 802.11n HT40



IEEE 802.11AC20



IEEE 802.11 AC40



IEEE 802.11AC80

B.2 Maximum Conduct Output Power

ANT0

Test Mode	Channel	Frequency (MHz)	AVG Conducted Power (dBm)	Duty Cycle Factor(dB)	Report Conducted Power(dBm)	Limit (dBm)	Verdict
11A	36	5180	15.17	0	15.17	24	Pass
	40	5200	15.31	0	15.31		Pass
	48	5240	15.70	0	15.70		Pass
11N20 SISO	36	5180	15.99	0	15.99	24	Pass
	40	5200	16.39	0	16.39		Pass
	48	5240	15.96	0	15.96		Pass
11N40 SISO	38	5190	14.98	0	14.98	24	Pass
	46	5230	15.34	0	15.34		Pass
11AC20 SISO	36	5180	15.30	0	15.30	24	Pass
	40	5200	15.55	0	15.55		Pass
	48	5240	15.93	0	15.93		Pass
11AC40 SISO	38	5190	15.15	0	15.15	24	Pass
	46	5230	15.48	0	15.48		Pass
11AC80 SISO	42	5210	14.75	0	14.75	24	Pass

ANT1

Test Mode	Channel	Frequency (MHz)	AVG Conducted Power (dBm)	Duty Cycle Factor(dB)	Report Conducted Power(dBm)	Limit (dBm)	Verdict
11A	36	5180	15.80	0	15.80	24	Pass
	40	5200	15.30	0	15.30		Pass
	48	5240	15.66	0	15.66		Pass
11N20 SISO	36	5180	15.19	0	15.19	24	Pass
	40	5200	15.50	0	15.50		Pass
	48	5240	15.77	0	15.77		Pass
11N40 SISO	38	5190	15.56	0	15.56	24	Pass
	46	5230	15.93	0	15.93		Pass
11AC20 SISO	36	5180	15.27	0	15.27	24	Pass
	40	5200	15.49	0	15.49		Pass
	48	5240	15.81	0	15.81		Pass
11AC40 SISO	38	5190	15.04	0	15.04	24	Pass
	46	5230	15.51	0	15.51		Pass
11AC80 SISO	42	5210	15.15	0	15.15	24	Pass

Combined Ant0 and Ant1

Test Mode	Channel	Frequency (MHz)	Report Conducted Power (dBm)			Limit (dBm)
			Ant_0	Ant_1	Sum	
11N20	36	5180	15.99	15.19	18.62	24
	40	5200	16.39	15.50	18.98	
	48	5240	15.96	15.77	18.88	
11N40	38	5190	14.98	15.56	18.29	24
	46	5230	15.34	15.93	18.66	
11AC20	36	5180	15.30	15.27	18.30	24
	40	5200	15.55	15.49	18.53	
	48	5240	15.93	15.81	18.88	
11AC40	38	5190	15.15	15.04	18.11	24
	46	5230	15.48	15.51	18.51	
11AC80	42	5210	14.75	15.15	17.96	24

B.3 Power Spectral Density

ANT0

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	4.12	0	4.12	11	Pass
	40	5200	4.48	0	4.48		Pass
	48	5240	4.80	0	4.80		Pass
11N20 SISO	36	5180	4.82	0	4.82	11	Pass
	40	5200	5.38	0	5.38		Pass
	48	5240	4.93	0	4.93		Pass
11N40 SISO	38	5190	1.08	0	1.08	11	Pass
	46	5230	1.64	0	1.64		Pass
11AC20 SISO	36	5180	4.26	0	4.26	11	Pass
	40	5200	4.38	0	4.38		Pass
	48	5240	4.71	0	4.71		Pass
11AC40 SISO	38	5190	1.32	0	1.32	11	Pass
	46	5230	1.62	0	1.62		Pass
11AC80 SISO	42	5210	-1.63	0	-1.63	11	Pass

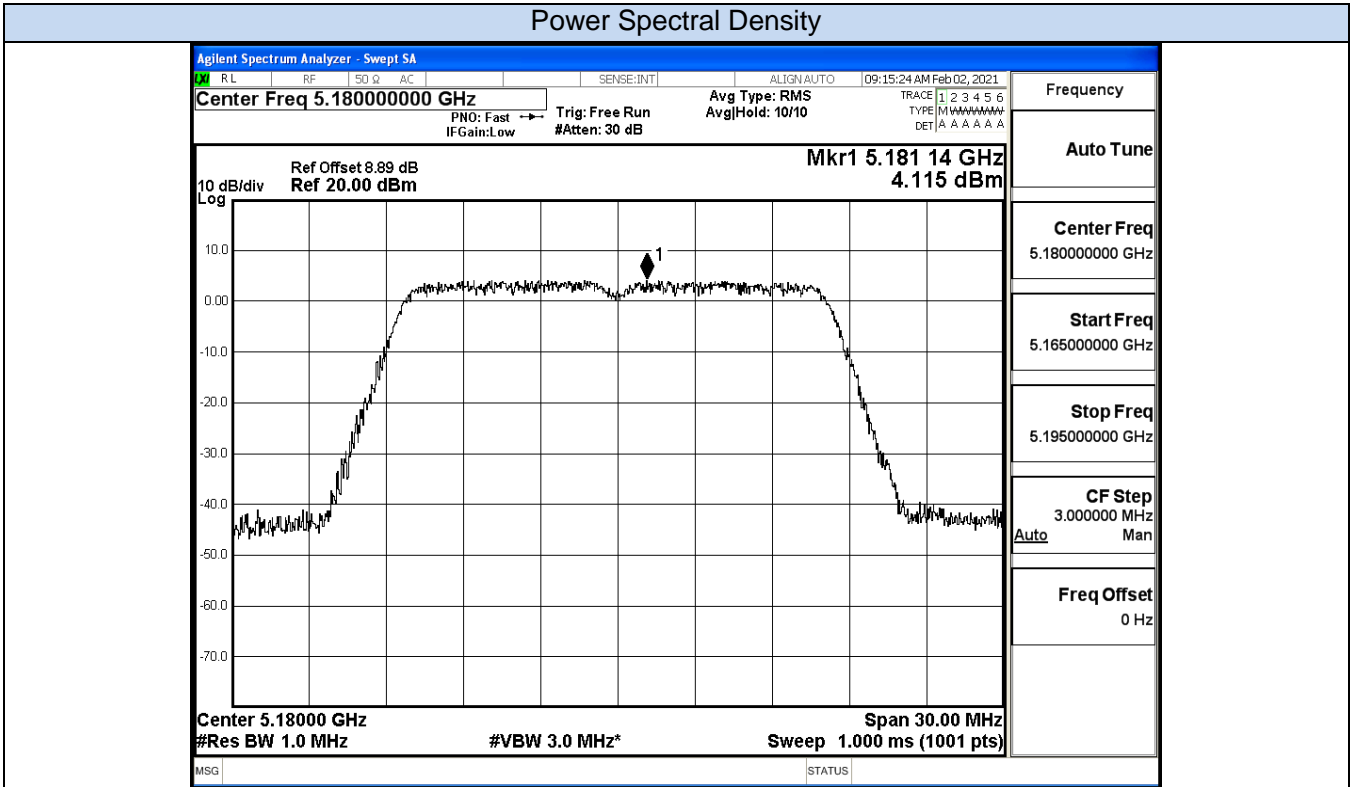
ANT1

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	4.87	0	4.87	11	Pass
	40	5200	4.48	0	4.48		Pass
	48	5240	4.99	0	4.99		Pass
11N20 SISO	36	5180	3.94	0	3.94	11	Pass
	40	5200	4.18	0	4.18		Pass
	48	5240	4.63	0	4.63		Pass
11N40 SISO	38	5190	1.46	0	1.46	11	Pass
	46	5230	2.08	0	2.08		Pass
11AC20 SISO	36	5180	4.44	0	4.44	11	Pass
	40	5200	4.29	0	4.29		Pass
	48	5240	4.45	0	4.45		Pass
11AC40 SISO	38	5190	1.20	0	1.20	11	Pass
	46	5230	1.67	0	1.67		Pass
11AC80 SISO	42	5210	-0.76	0	-0.76	11	Pass

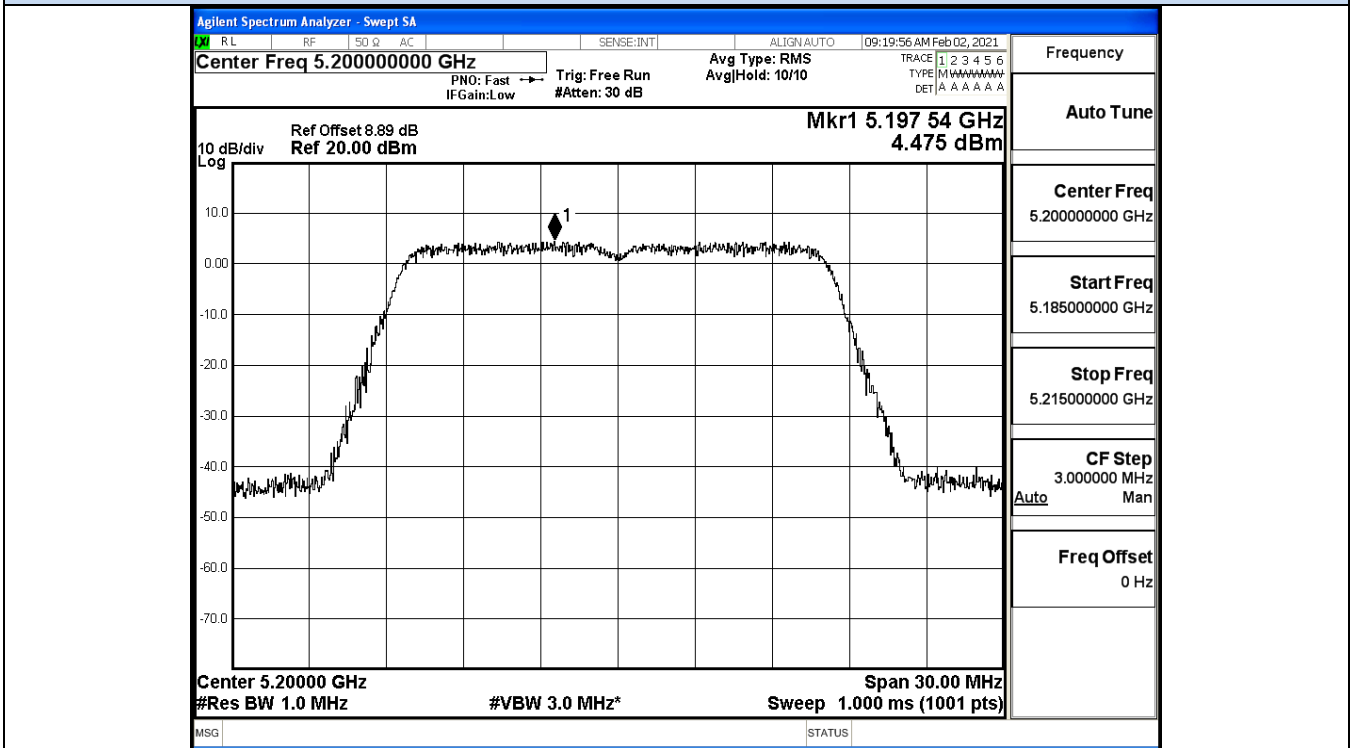
Combined Ant0 and Ant1

Test Mode	Channel	Frequency (MHz)	Report Power Density (dBm/MHz)			Limit (dBm/MHz)
			Ant_0	Ant_1	Sum	
11N20	36	5180	4.82	3.94	7.41	9.5
	40	5200	5.38	4.18	7.83	
	48	5240	4.93	4.63	7.79	
11N40	38	5190	1.08	1.46	4.28	9.5
	46	5230	1.64	2.08	4.88	
11AC20	36	5180	4.26	4.44	7.36	9.5
	40	5200	4.38	4.29	7.35	
	48	5240	4.71	4.45	7.59	
11AC40	38	5190	1.32	1.20	4.27	9.5
	46	5230	1.62	1.67	4.66	
11AC80	42	5210	-1.63	-0.76	1.84	9.5

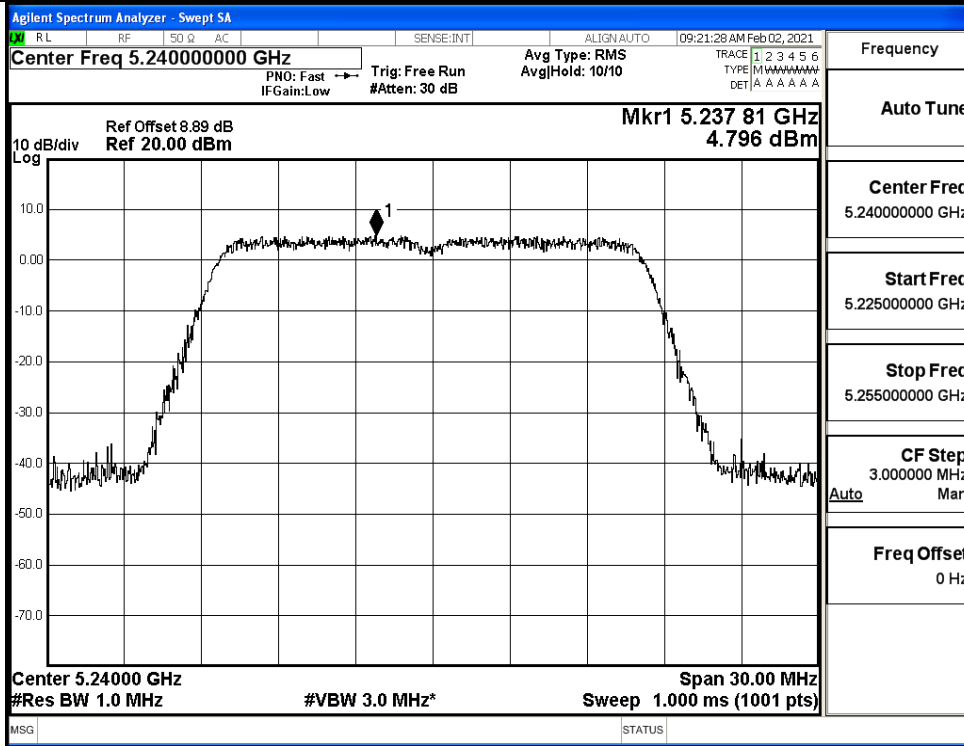
ANT0



IEEE 802.11a / Channel 36 / 5180MHz

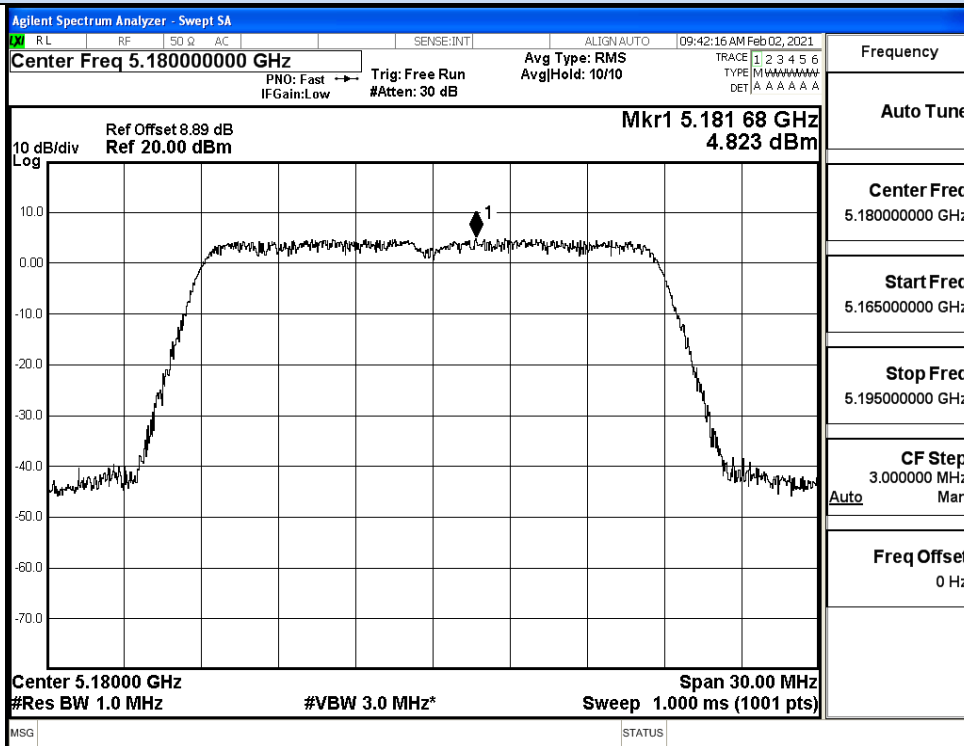


IEEE 802.11na / Channel 40 / 5200MHz

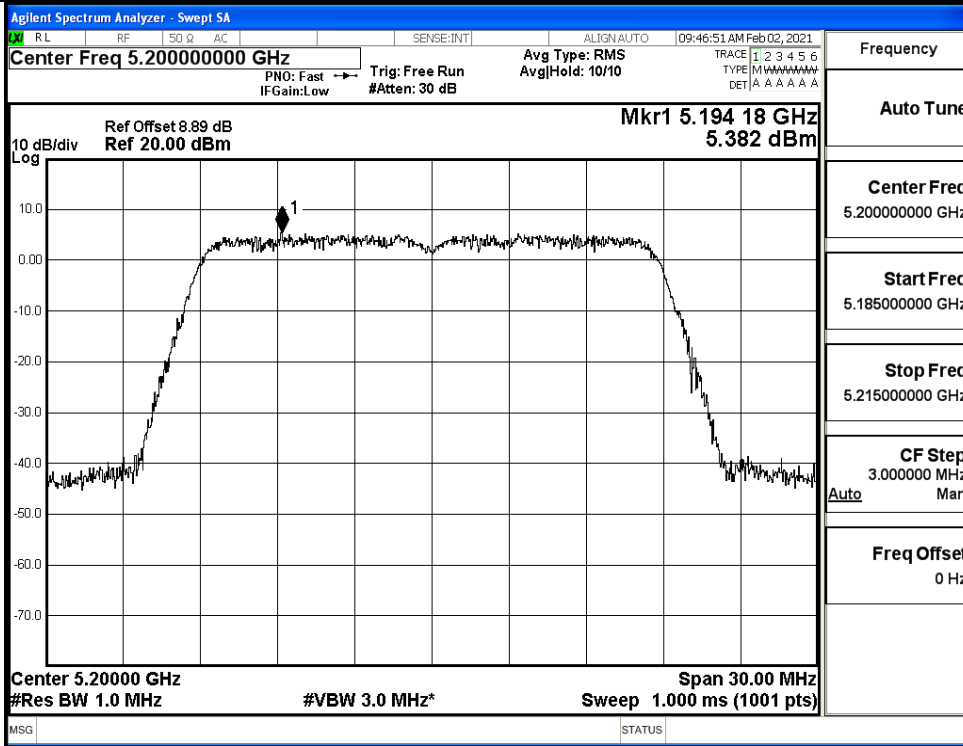


IEEE 802.11na / Channel 48 / 5240MHz

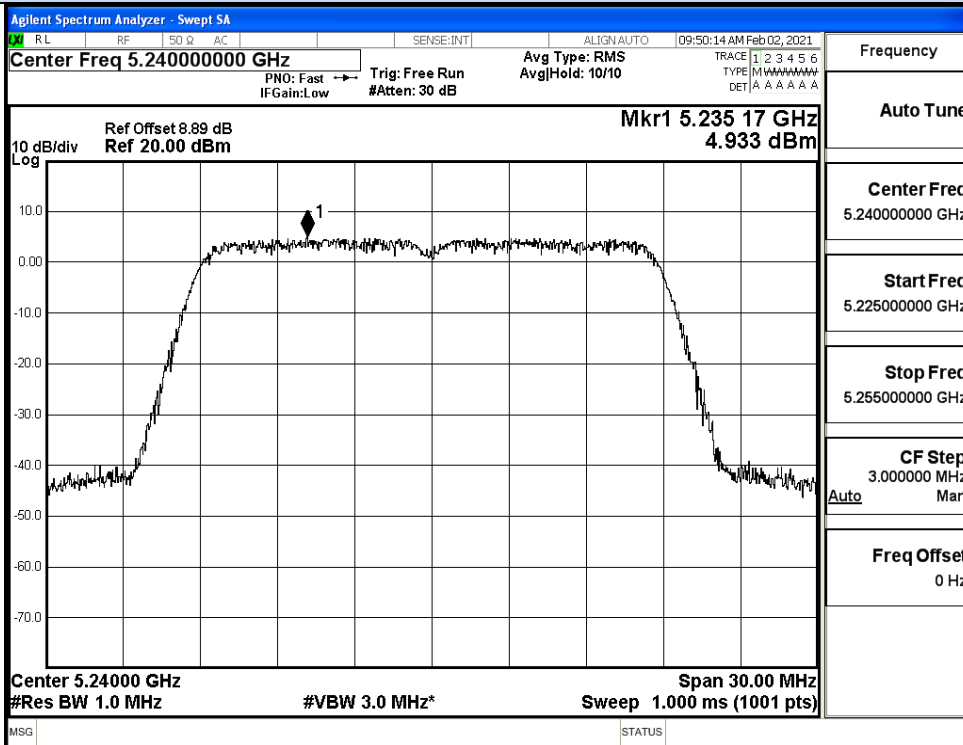
Power Spectral Density



IEEE 802.11n20 / Channel 36 / 5180MHz

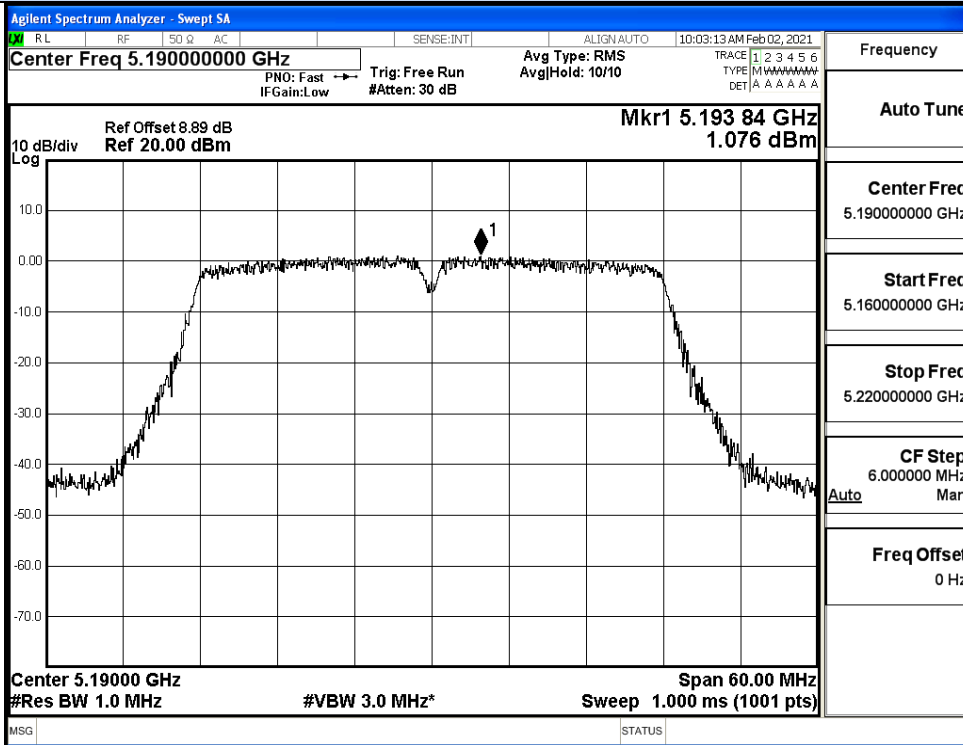


IEEE 802.11n20 / Channel 40 / 5200MHz

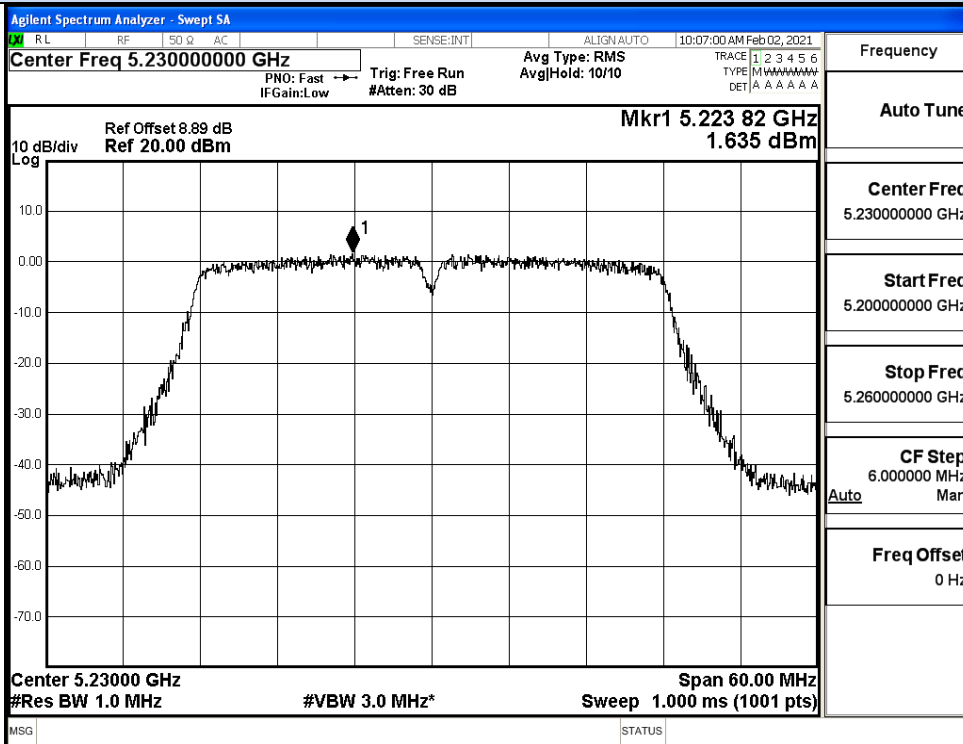


IEEE 802.11n20 / Channel 48 / 5240MHz

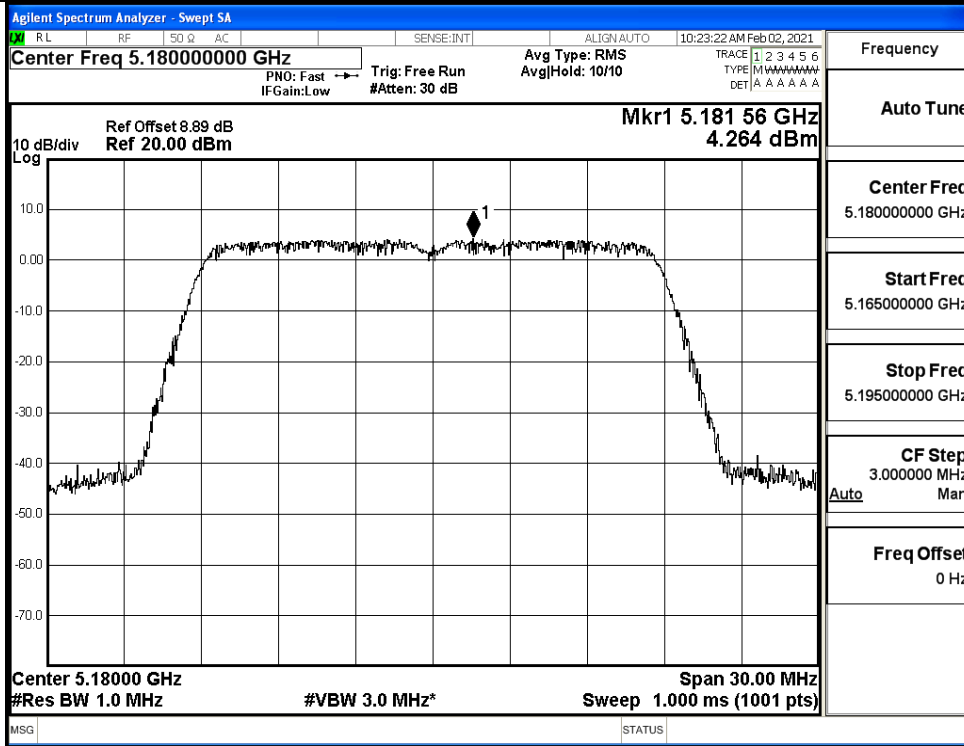
Power Spectral Density



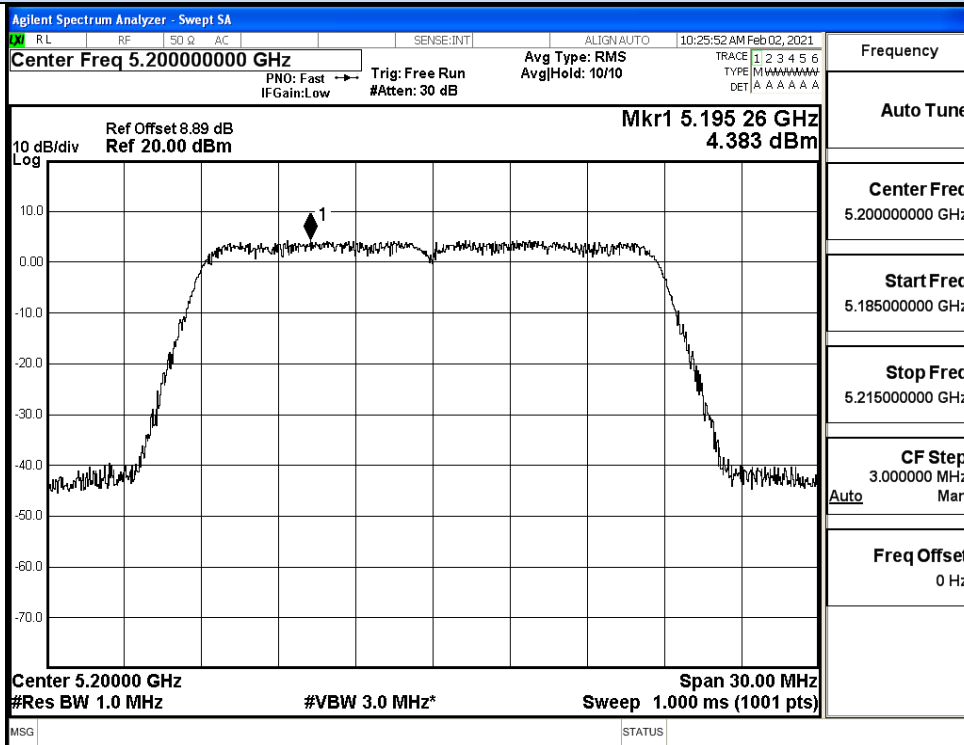
IEEE 802.11n40 / Channel 38 / 5190MHz



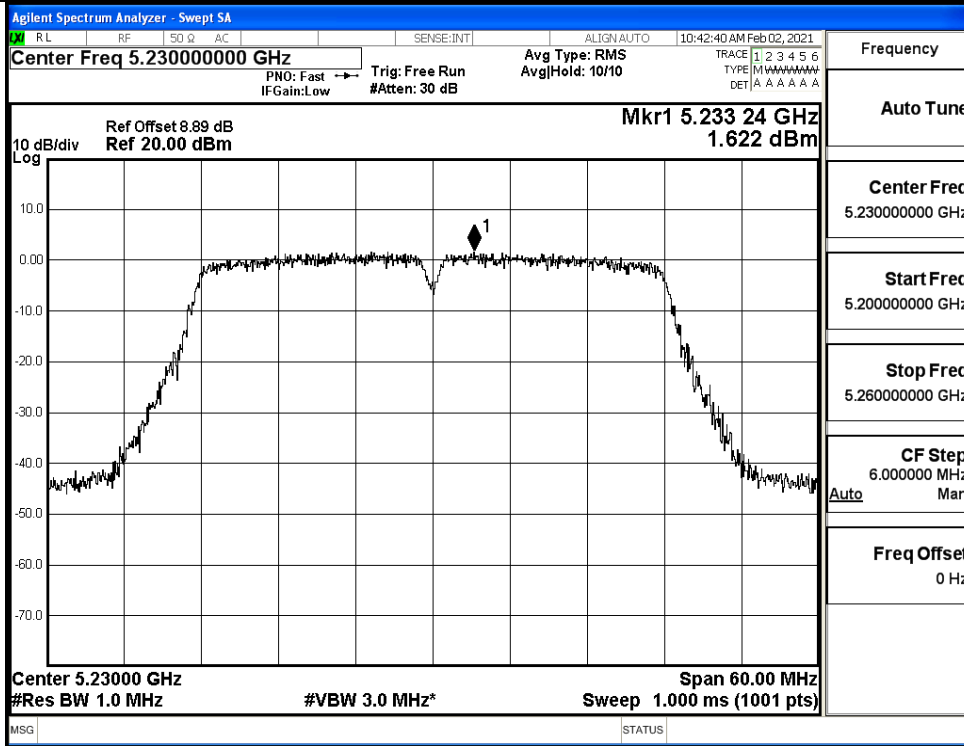
IEEE 802.11n40 / Channel 46 / 5230MHz



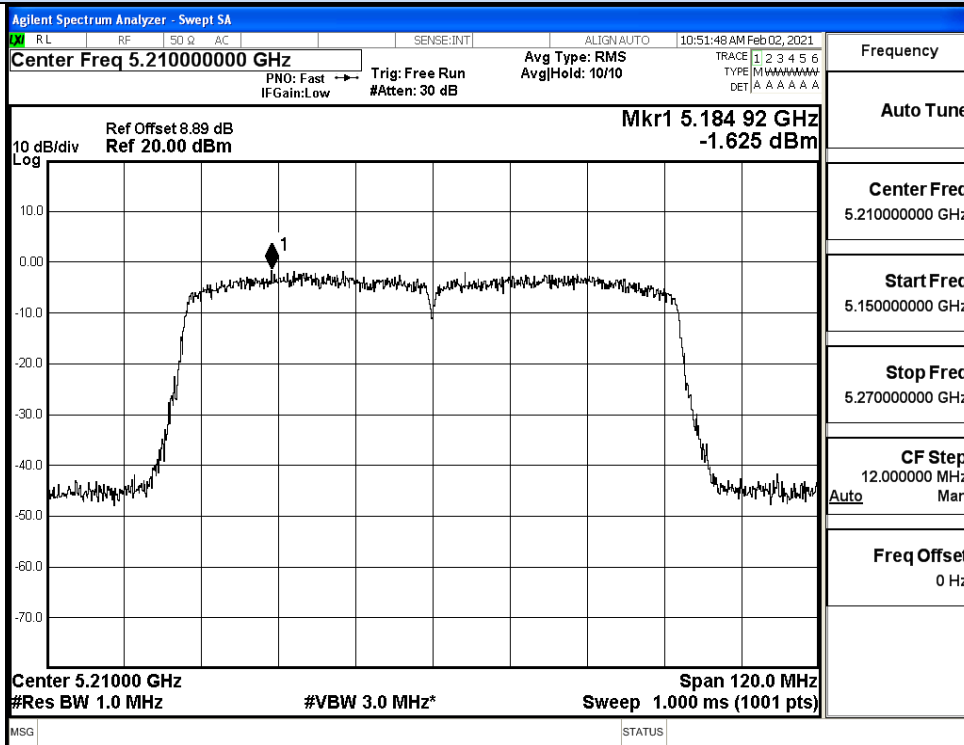
IEEE 802.11ac20 / Channel 36 / 5180MHz



IEEE 802.11ac20 / Channel 40 / 5200MHz

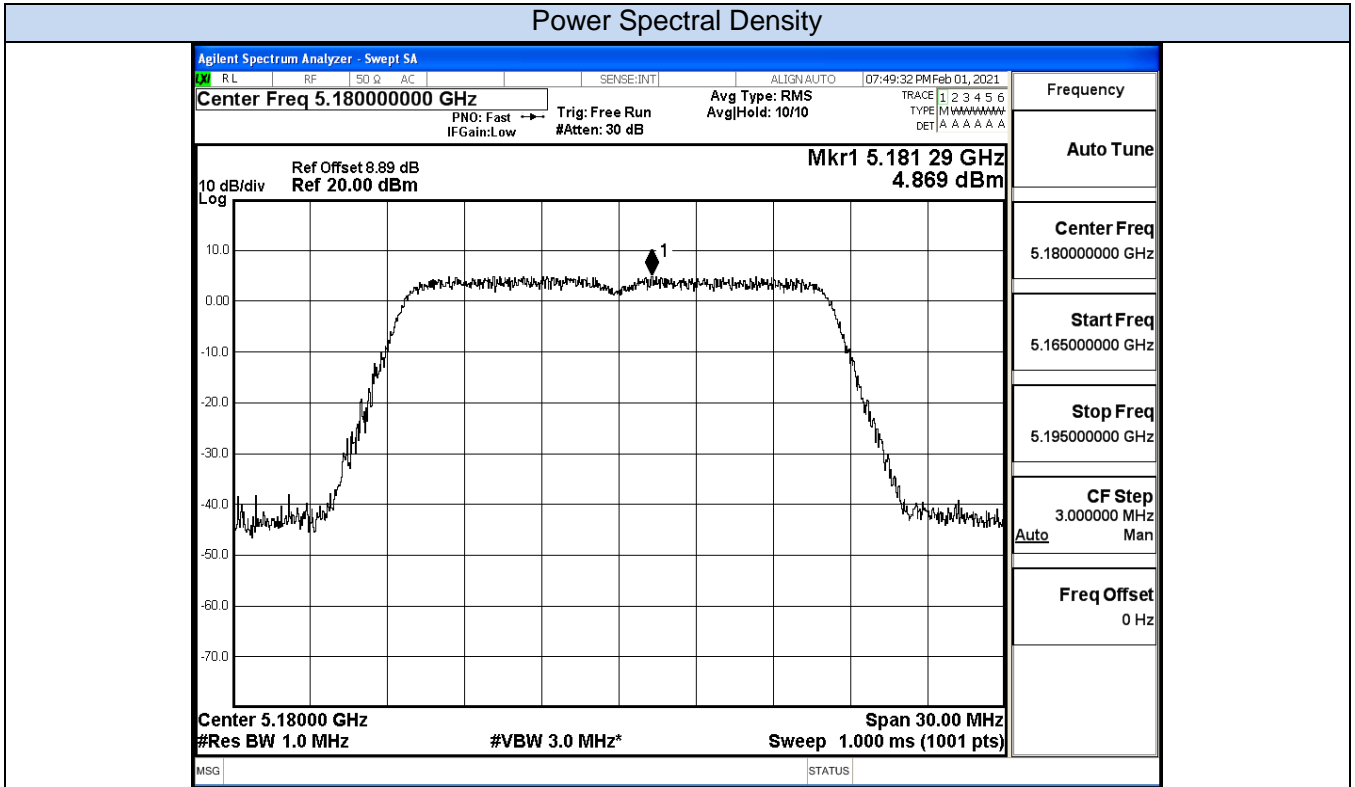


IEEE 802.11ac40 / Channel 46 / 5230MHz

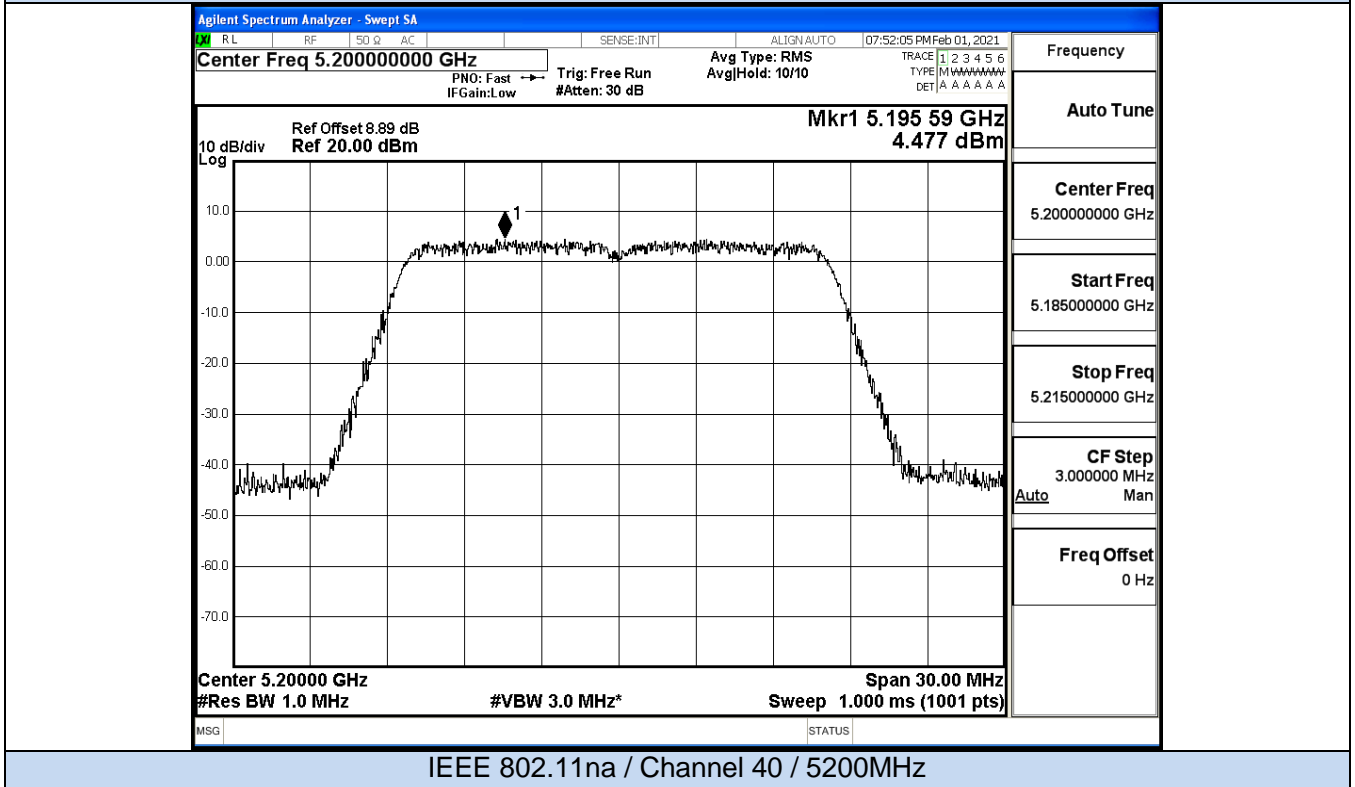


IEEE 802.11ac80 / Channel 42 / 5210MHz

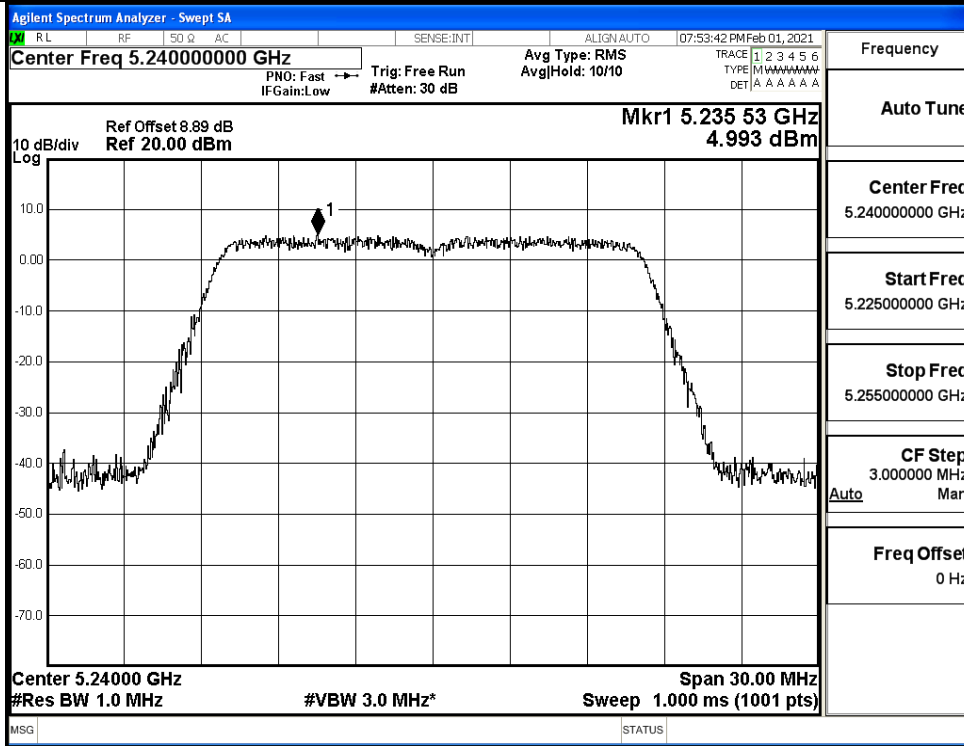
ANT1



IEEE 802.11a / Channel 36 / 5180MHz

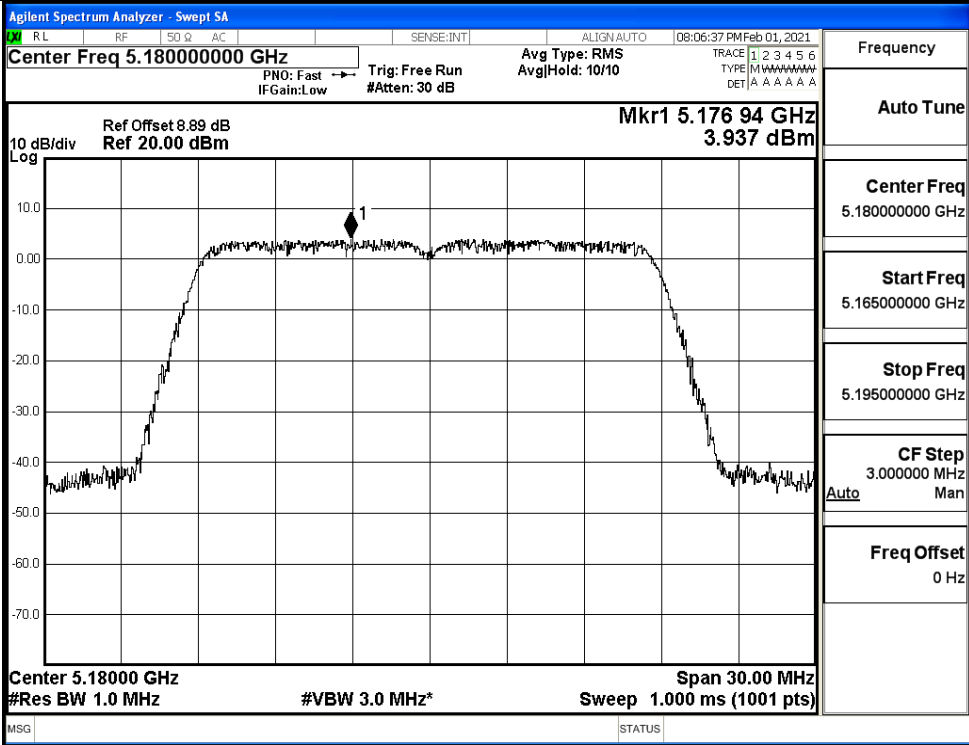


IEEE 802.11na / Channel 40 / 5200MHz

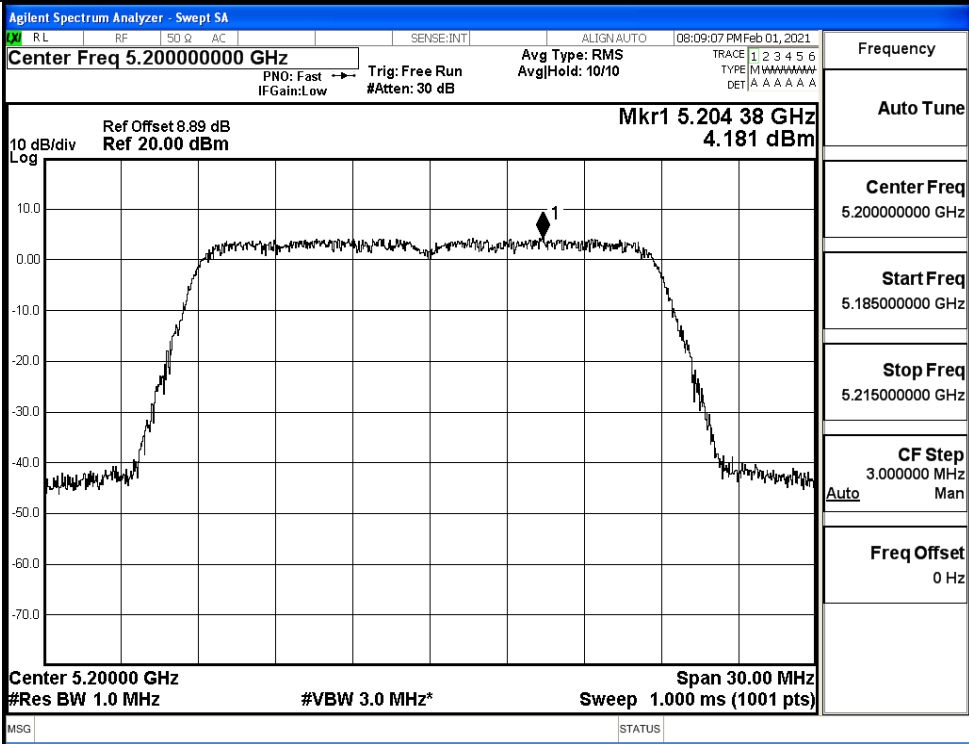


IEEE 802.11na / Channel 48 / 5240MHz

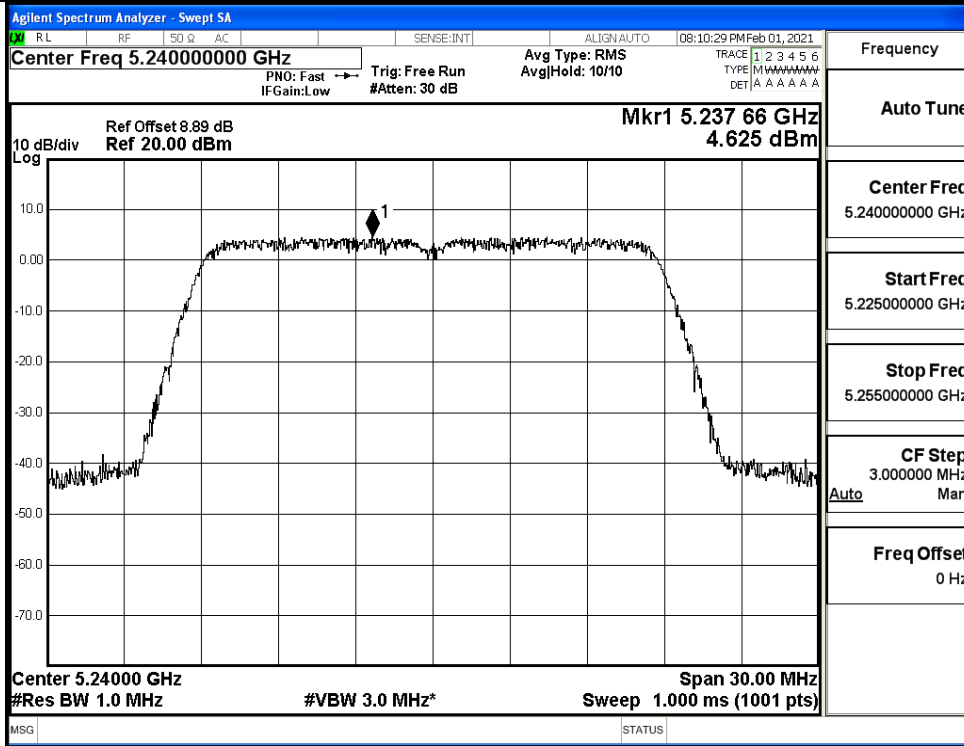
Power Spectral Density



IEEE 802.11n20 / Channel 36 / 5180MHz

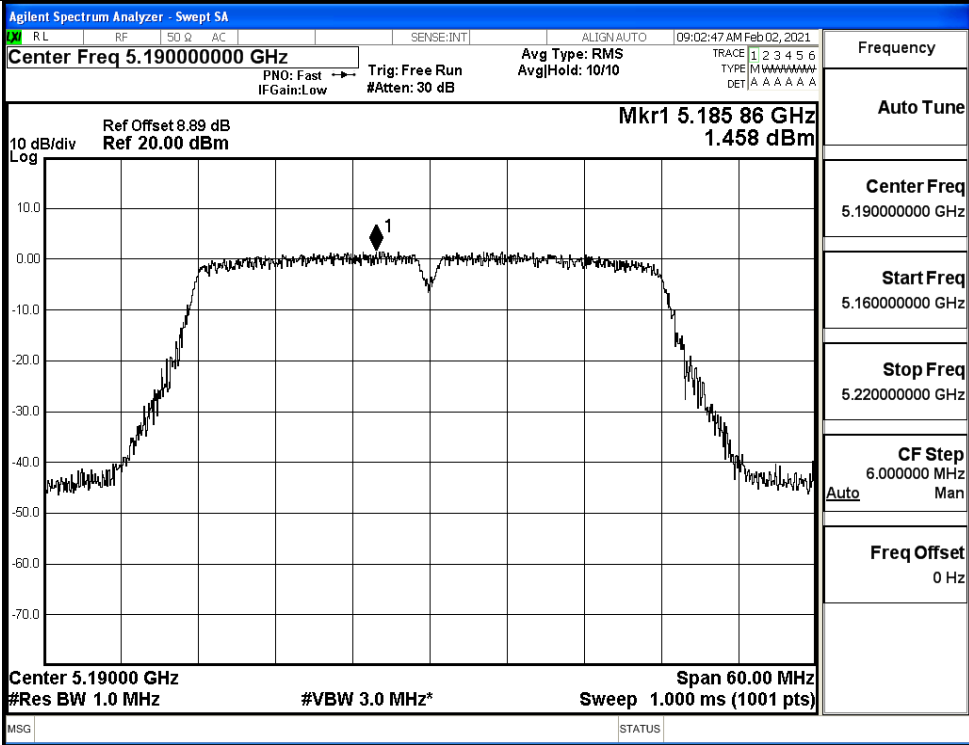


IEEE 802.11n20 / Channel 40 / 5200MHz

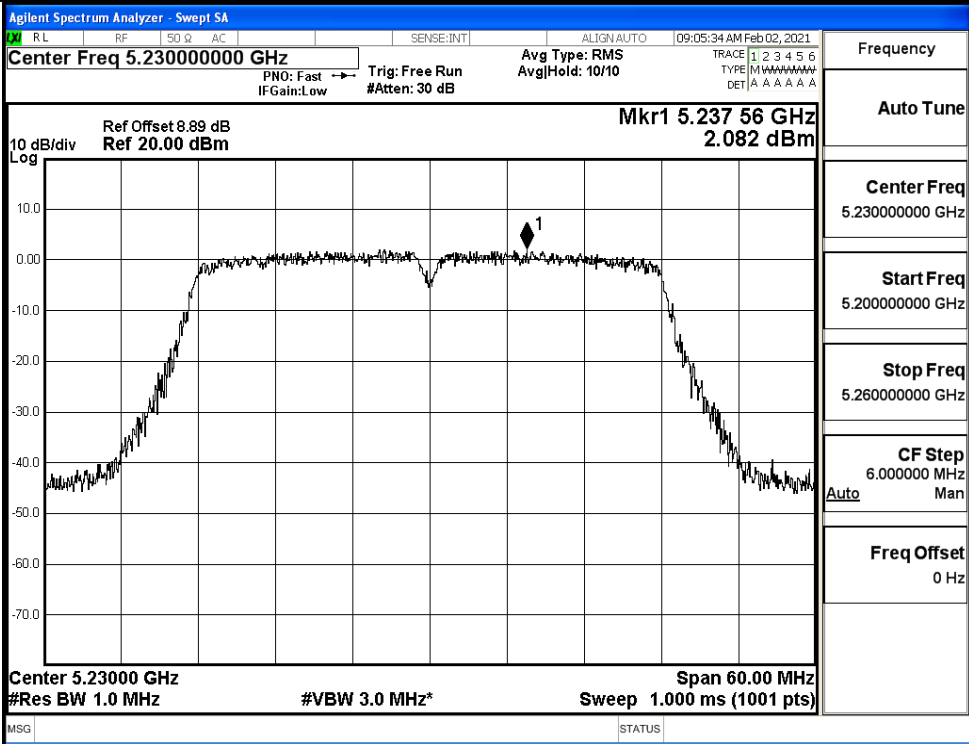


IEEE 802.11n20 / Channel 48 / 5240MHz

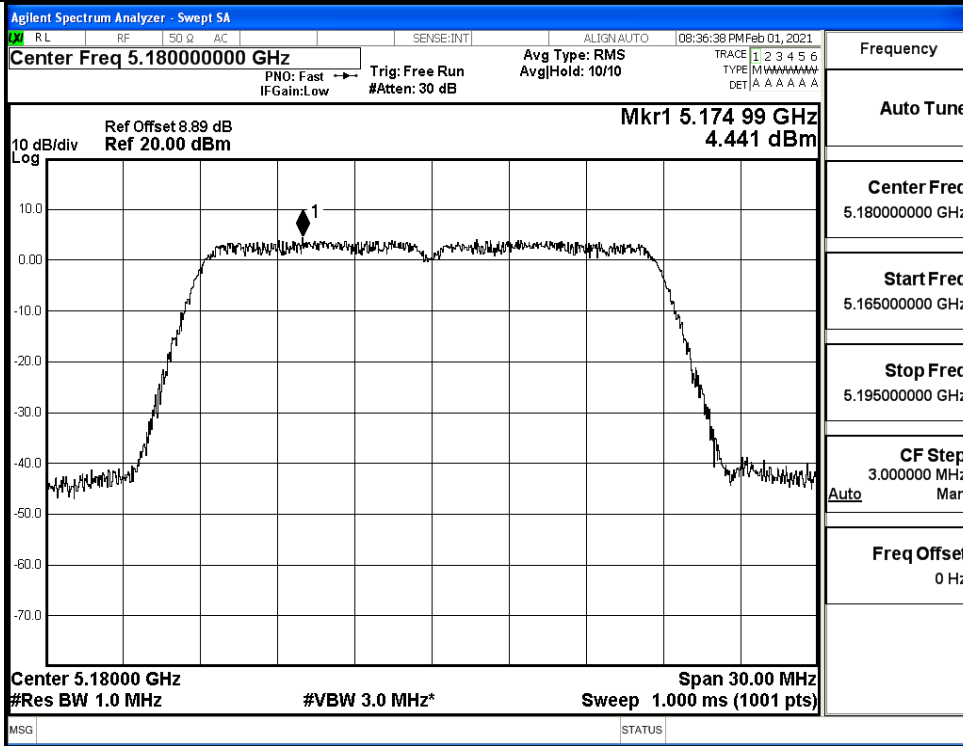
Power Spectral Density



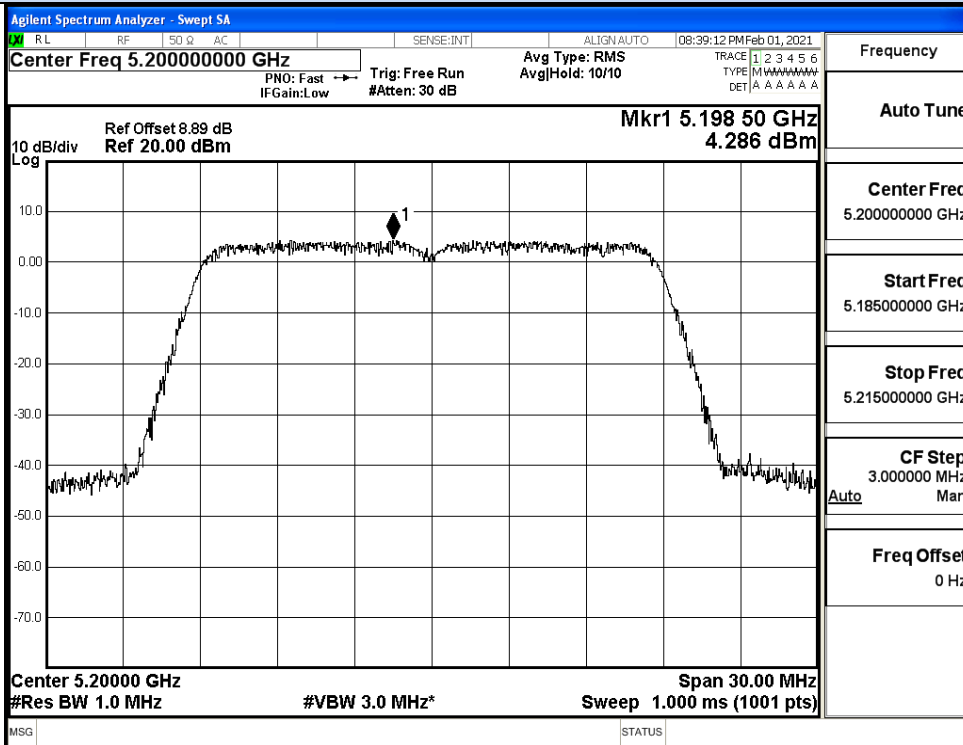
IEEE 802.11n40 / Channel 38 / 5190MHz



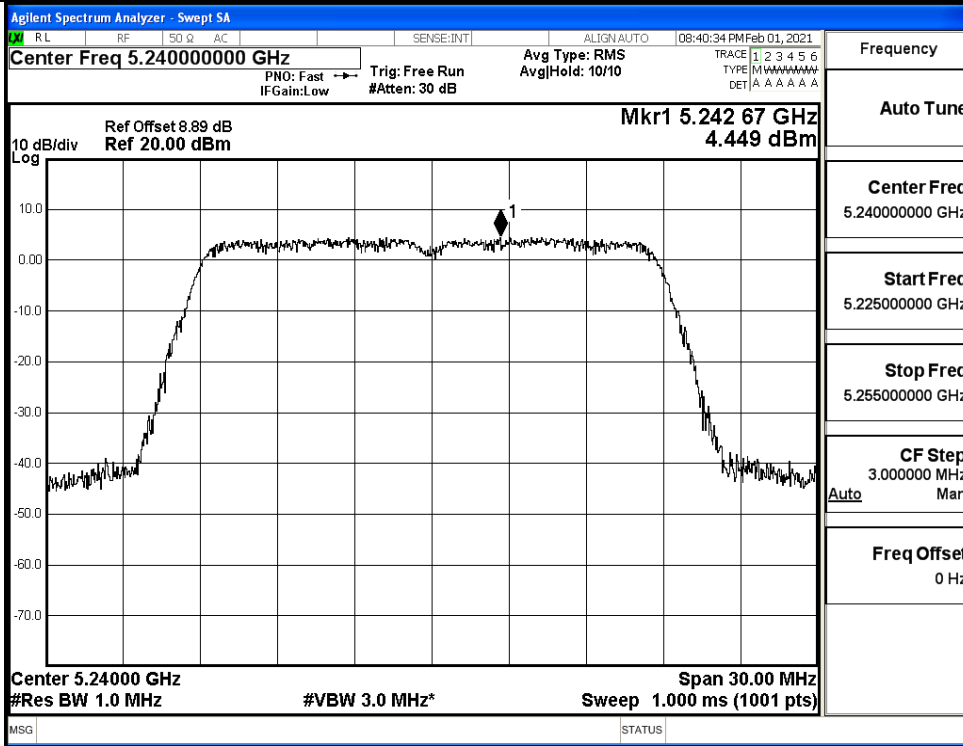
IEEE 802.11n40 / Channel 46 / 5230MHz



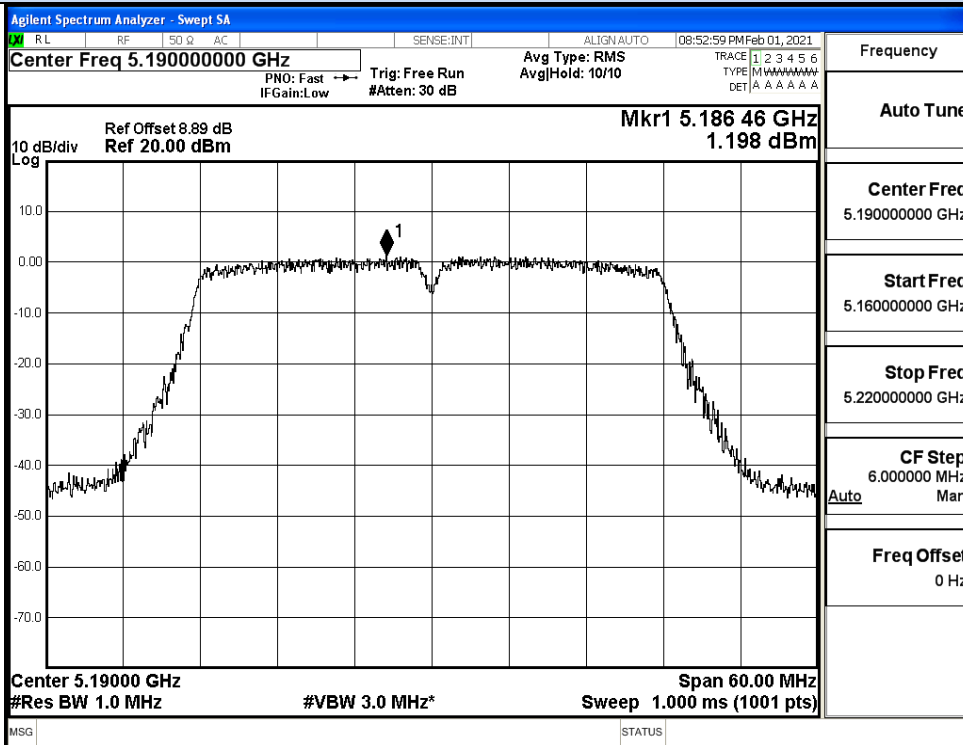
IEEE 802.11ac20 / Channel 36 / 5180MHz



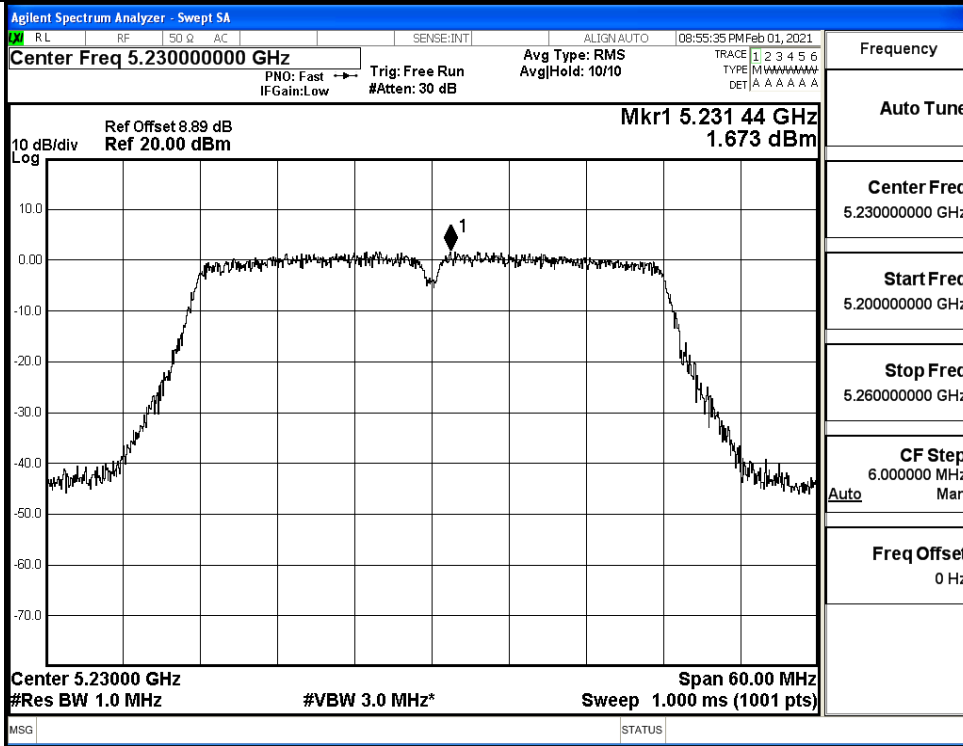
IEEE 802.11ac20 / Channel 40 / 5200MHz



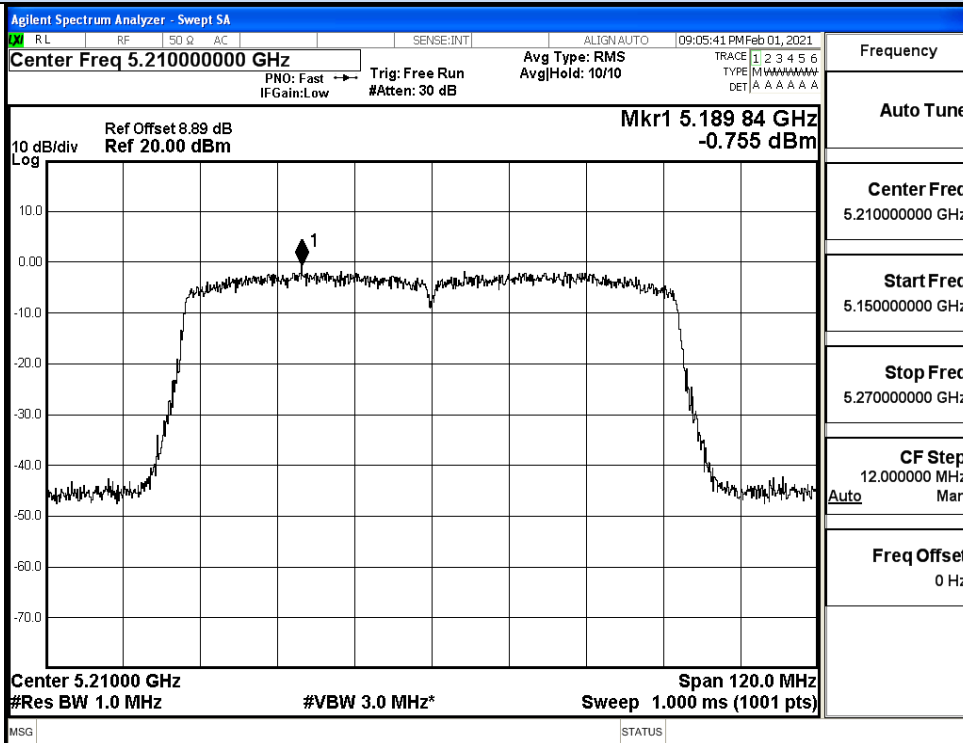
IEEE 802.11ac20 / Channel 48 / 5240MHz



IEEE 802.11ac40 / Channel 38 / 5190MHz



IEEE 802.11ac40 / Channel 46 / 5230MHz

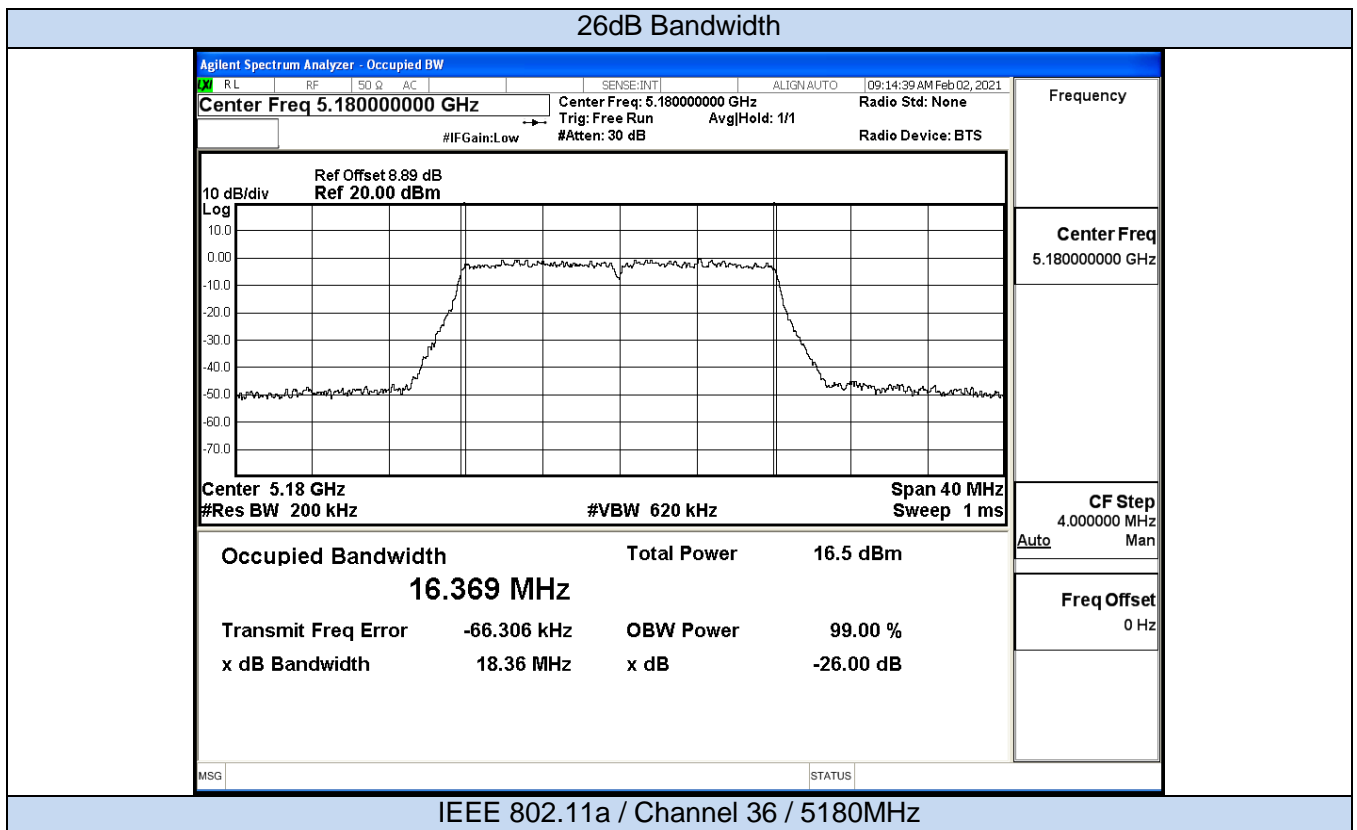


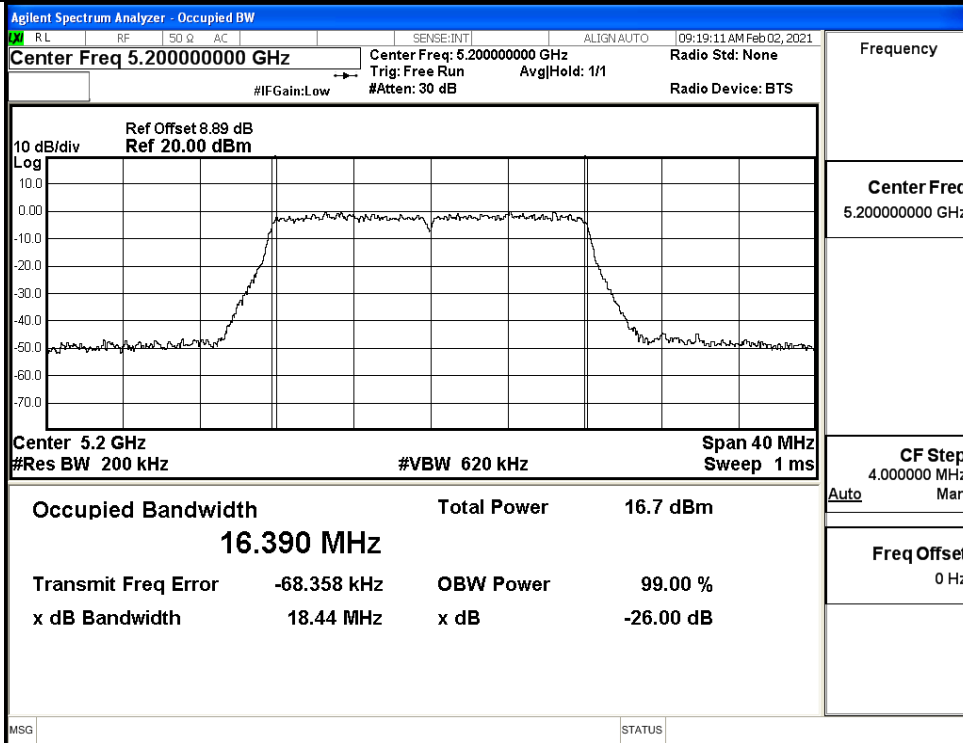
IEEE 802.11ac80 / Channel 42 / 5210MHz

B.4 Emission Bandwidth

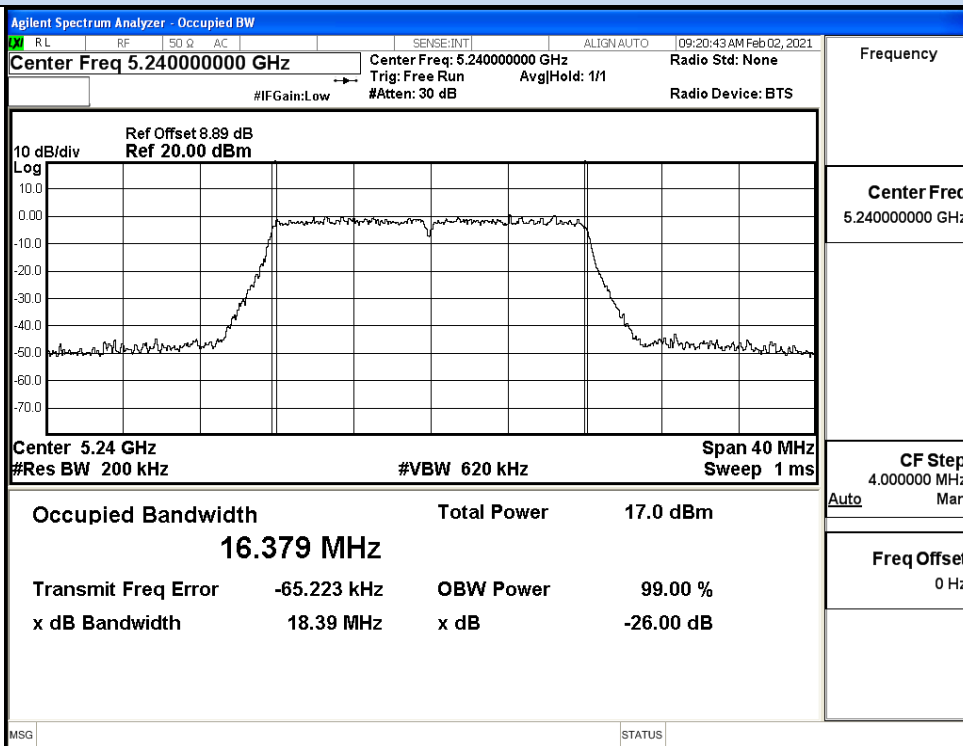
ANT0

Test Mode	Channel	Frequency (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
11A	36	5180	18.36	No Limit	Pass
	40	5200	18.44		Pass
	48	5240	18.39		Pass
11N20 SISO	36	5180	19.50	No Limit	Pass
	40	5200	19.48		Pass
	48	5240	19.47		Pass
11N40 SISO	38	5190	40.90	No Limit	Pass
	46	5230	40.96		Pass
11AC20 SISO	36	5180	19.46	No Limi	Pass
	40	5200	19.39		Pass
	48	5240	19.43		Pass
11AC40 SISO	38	5190	40.92	No Limi	Pass
	46	5230	41.23		Pass
11AC80 SISO	42	5210	81.65	No Limi	Pass



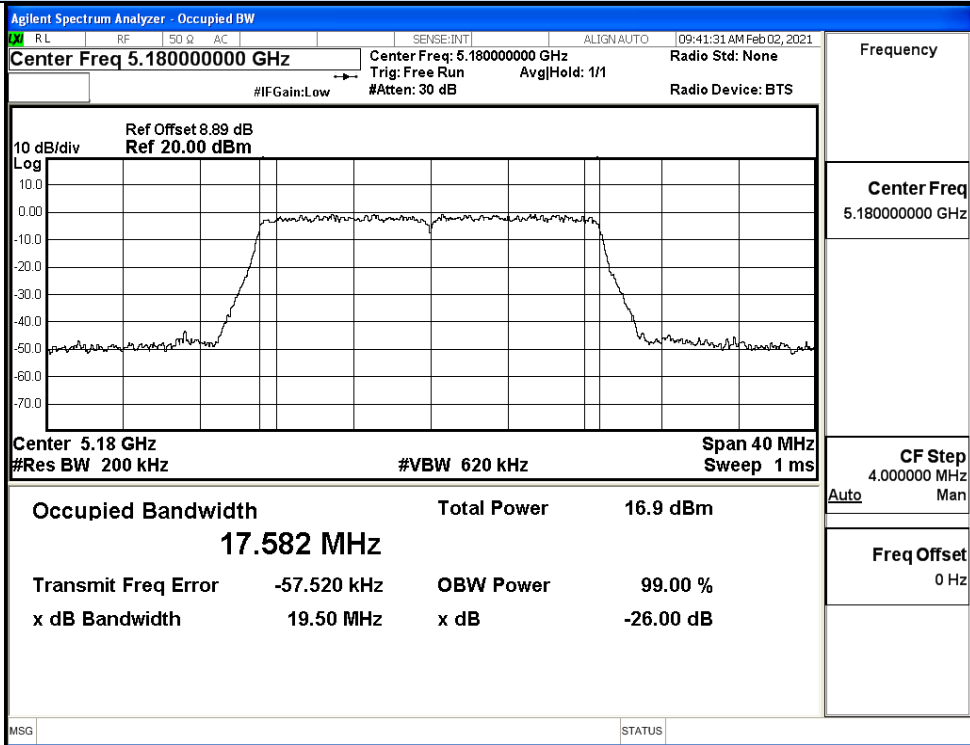


IEEE 802.11a / Channel 40 / 5200MHz

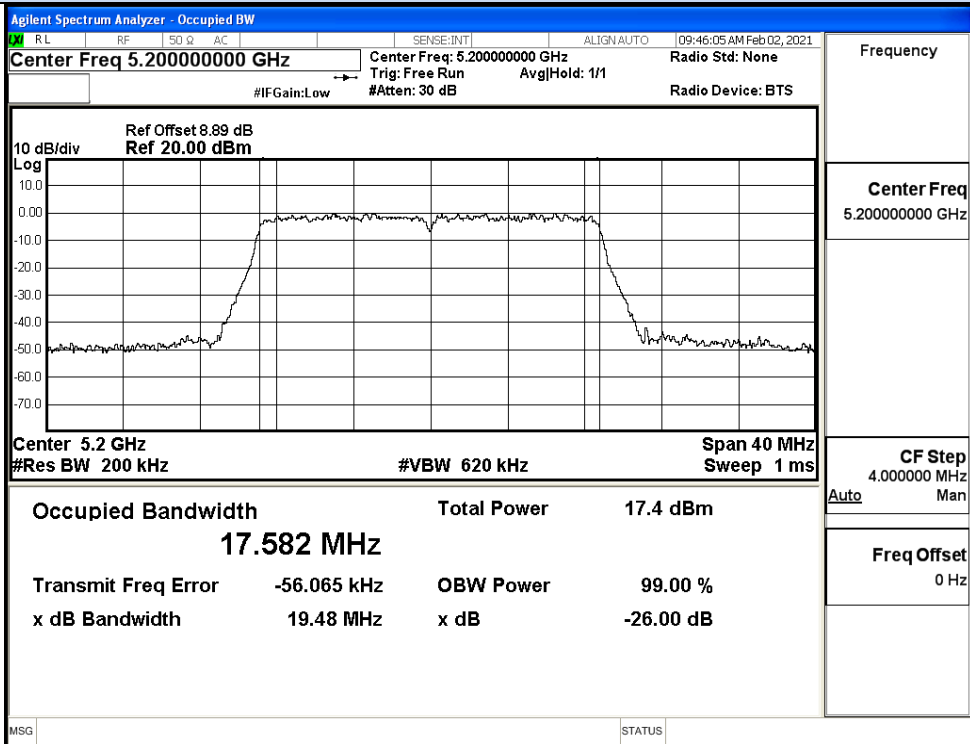


IEEE 802.11a / Channel 48 / 5240MHz

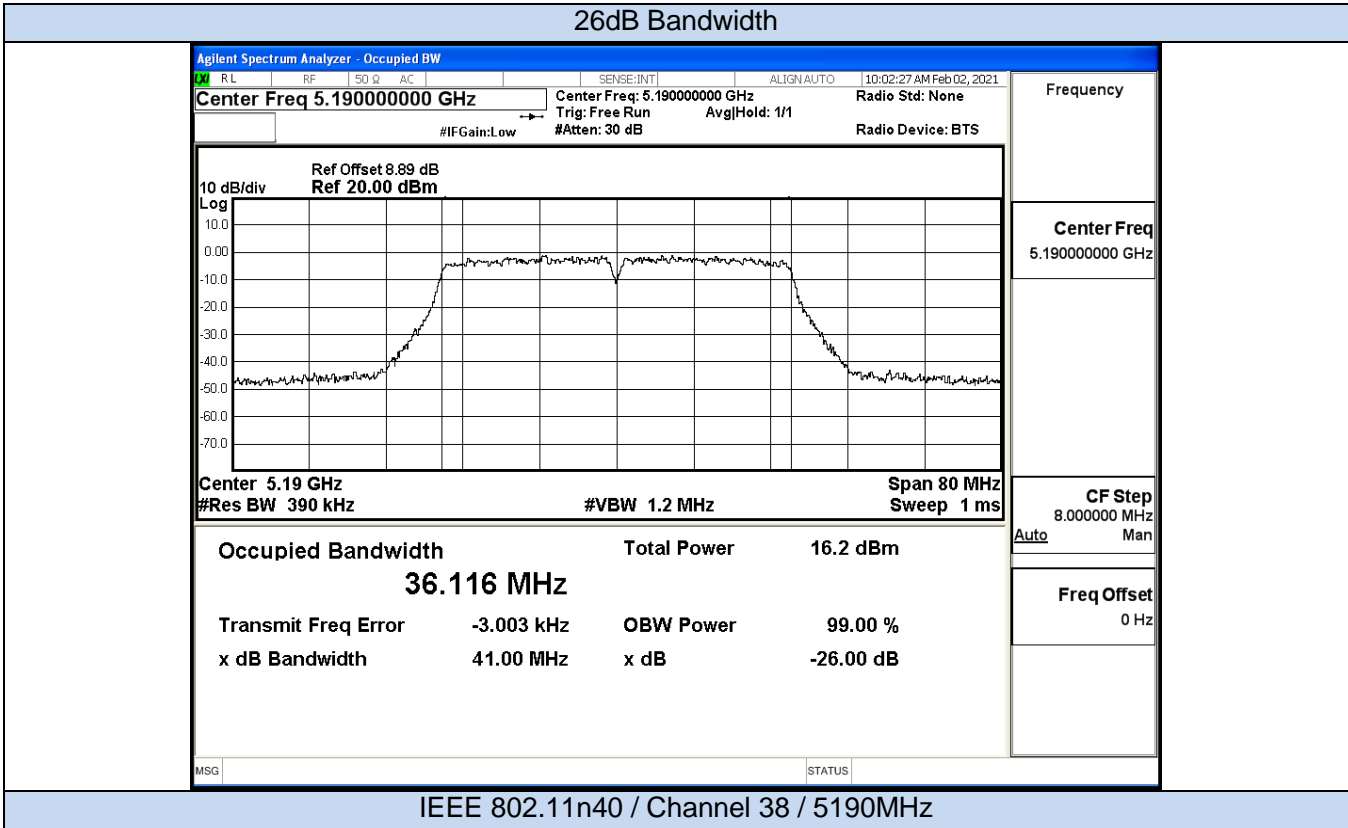
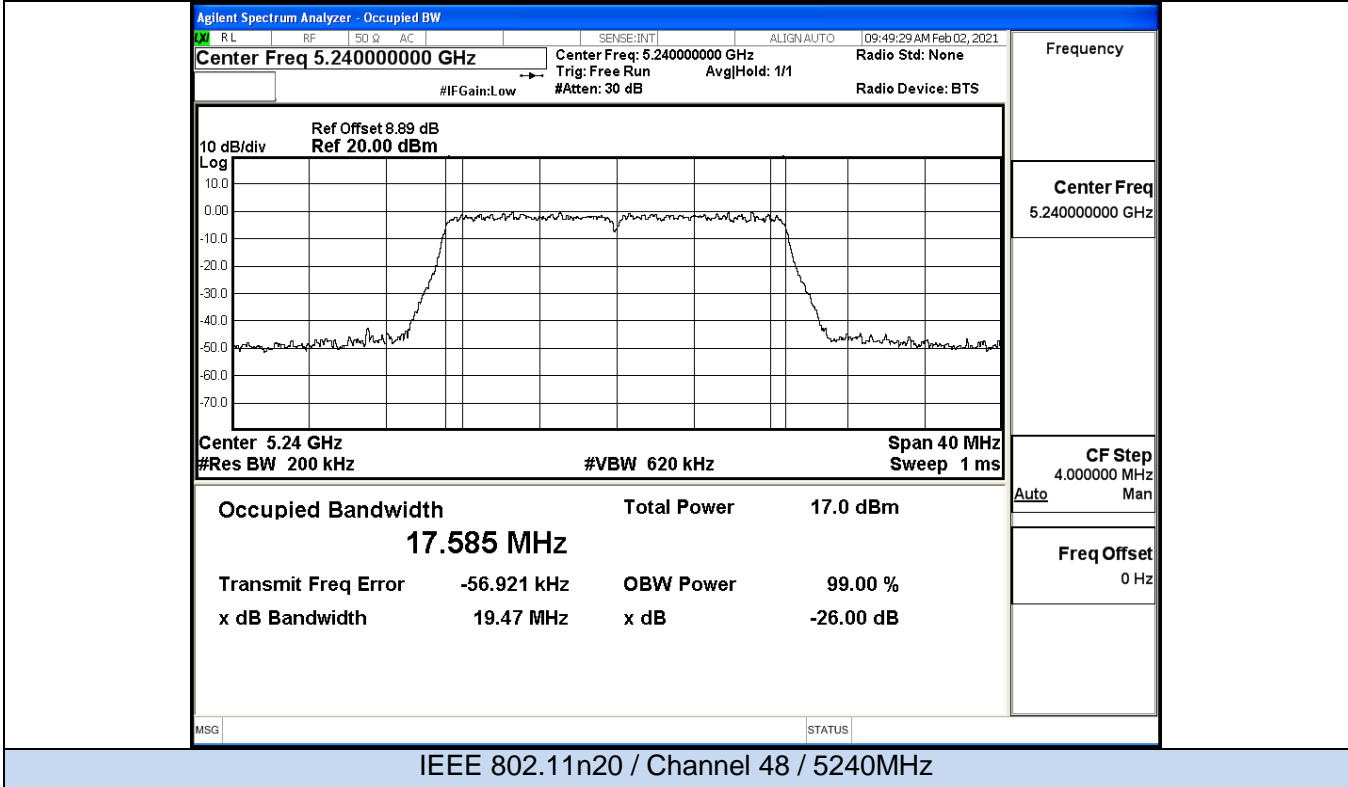
26dB Bandwidth

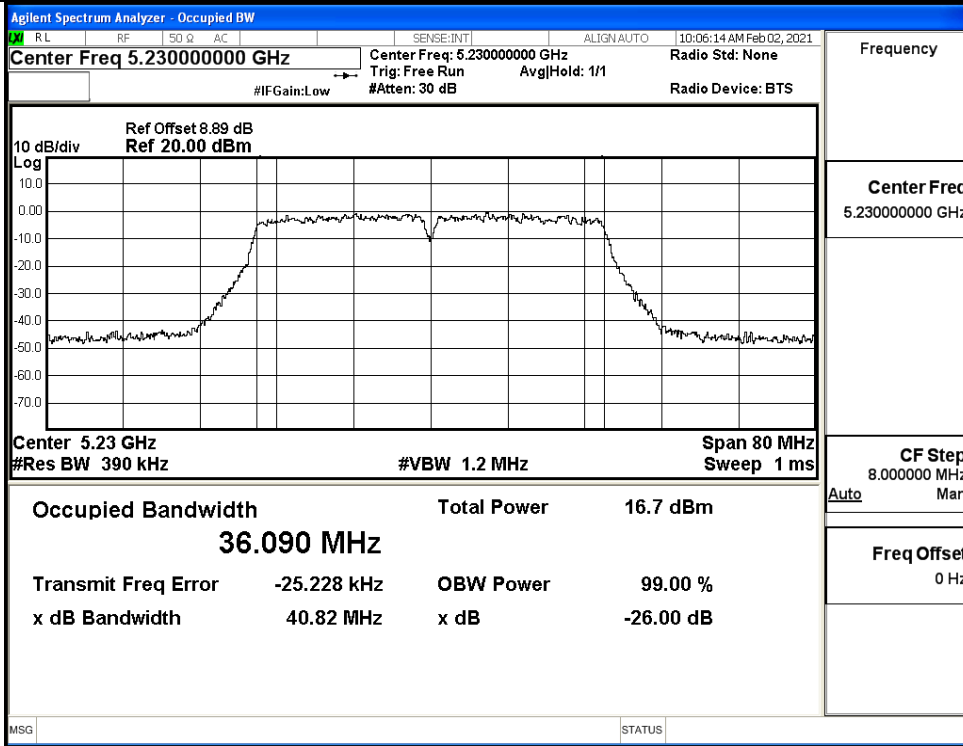


IEEE 802.11n20 / Channel 36 / 5180MHz

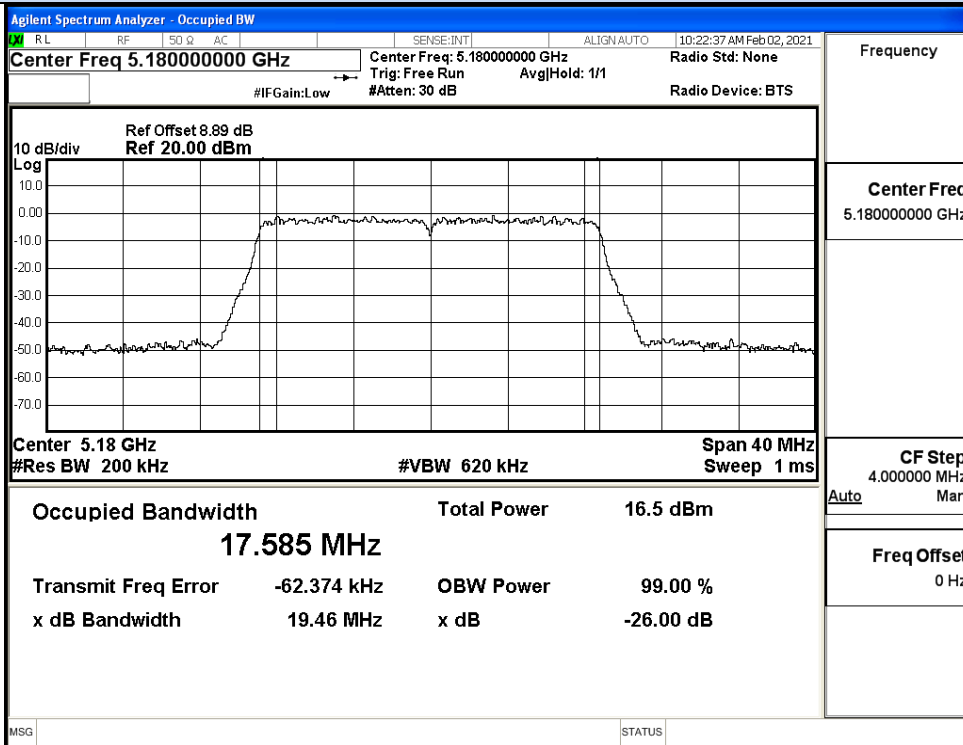


IEEE 802.11n20 / Channel 40 / 5200MHz

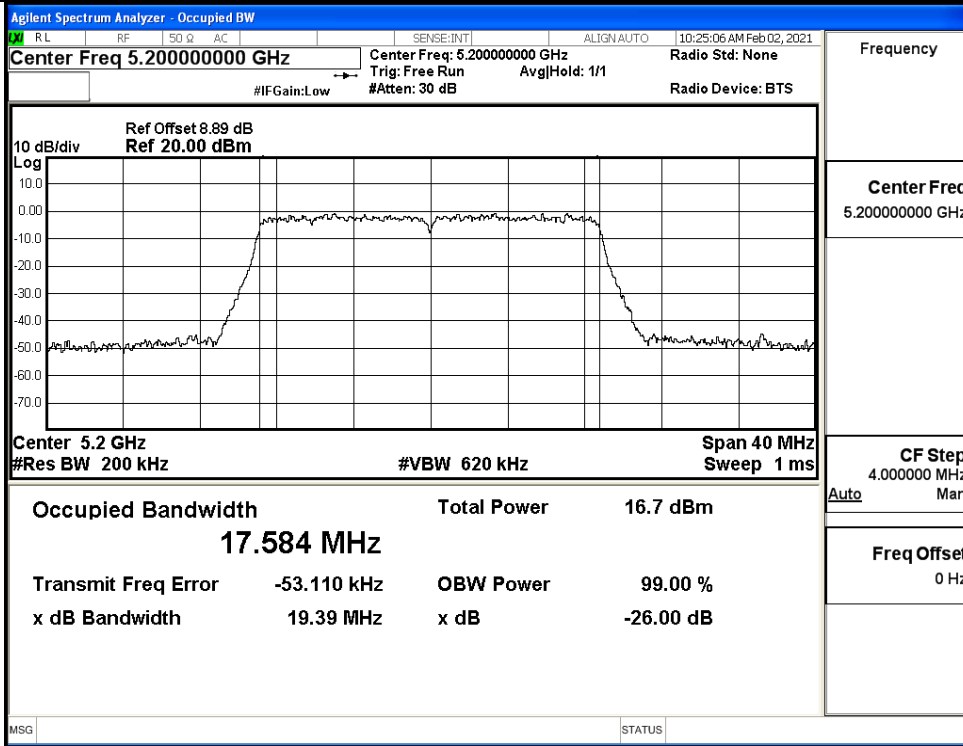




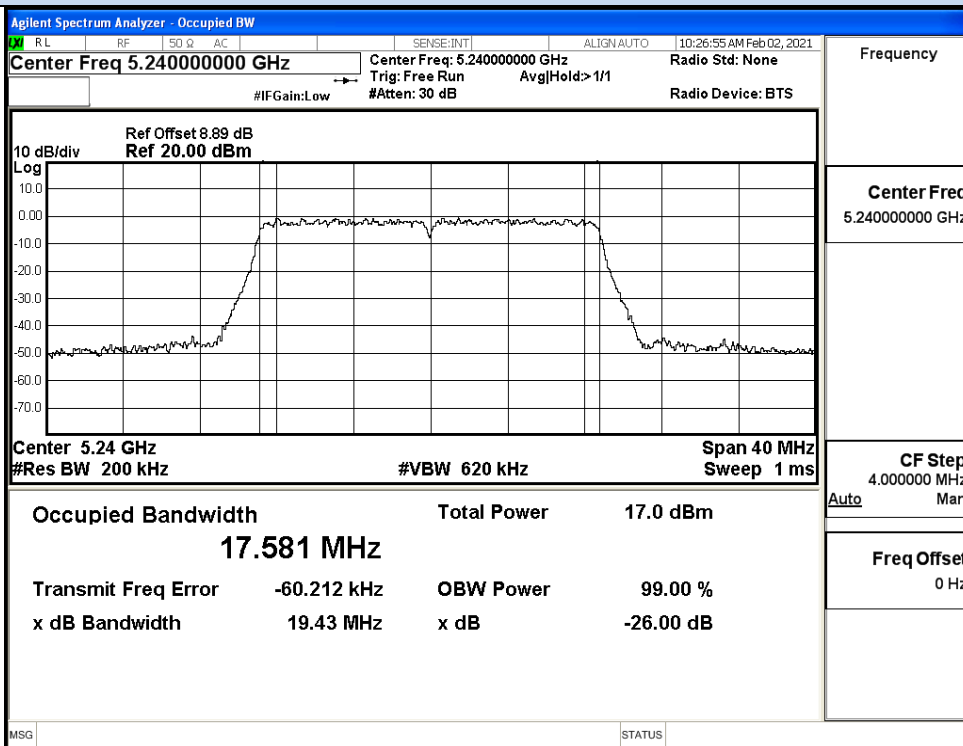
IEEE 802.11n40 / Channel 46 / 5230MHz



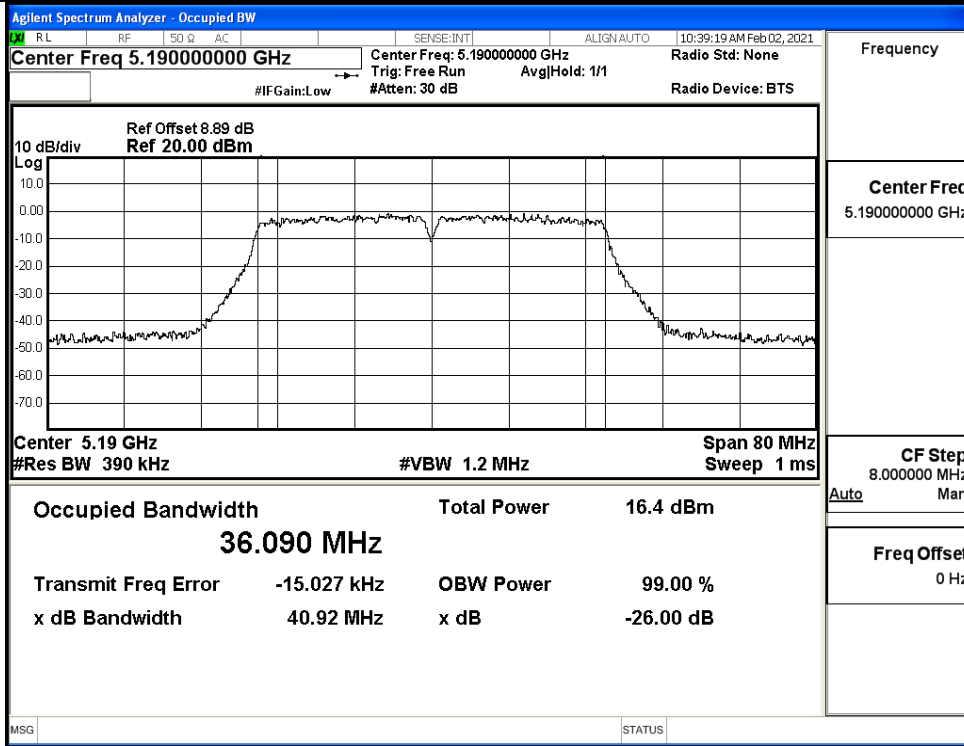
IEEE 802.11ac20 / Channel 36 / 5180MHz



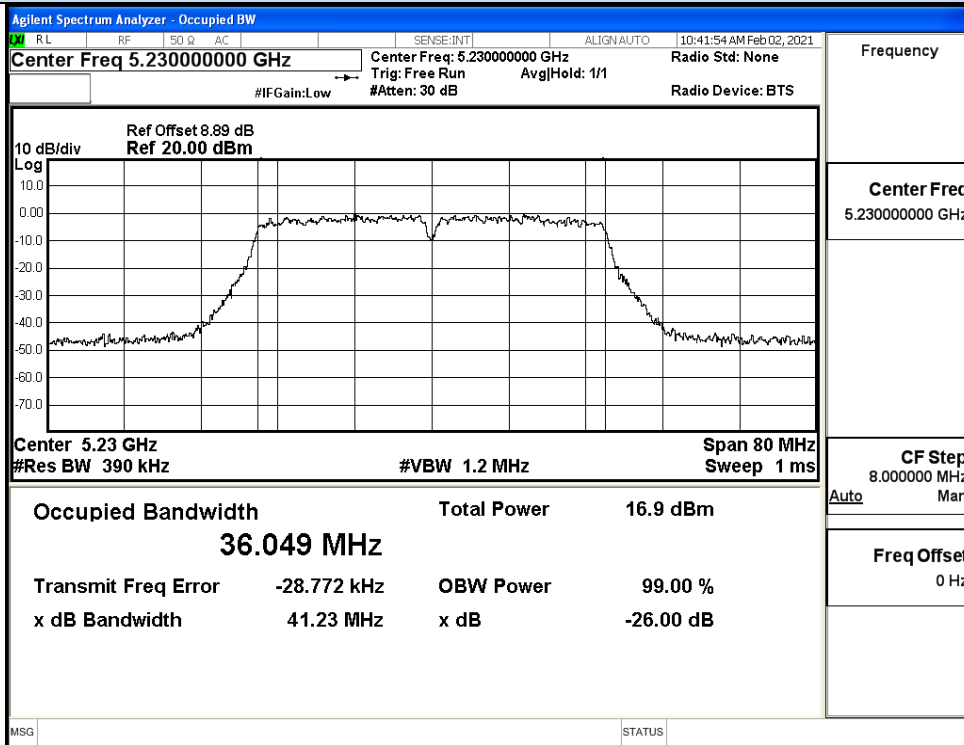
IEEE 802.11ac20 / Channel 40 / 5200MHz



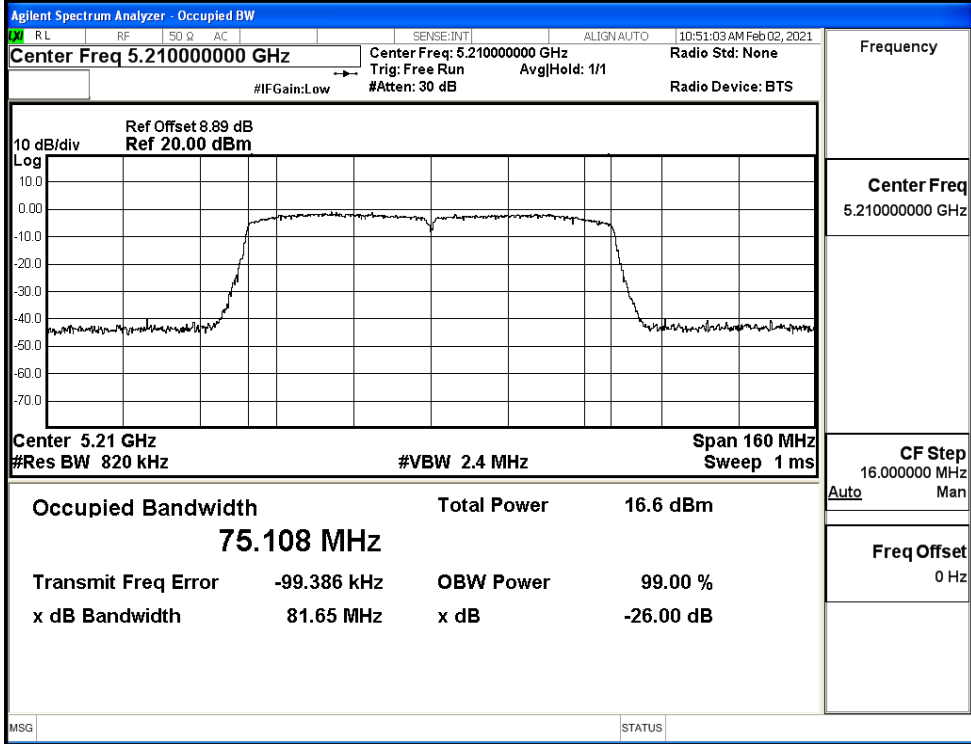
IEEE 802.11ac20 / Channel 48 / 5240MHz



IEEE 802.11ac40 / Channel 38 / 5190MHz



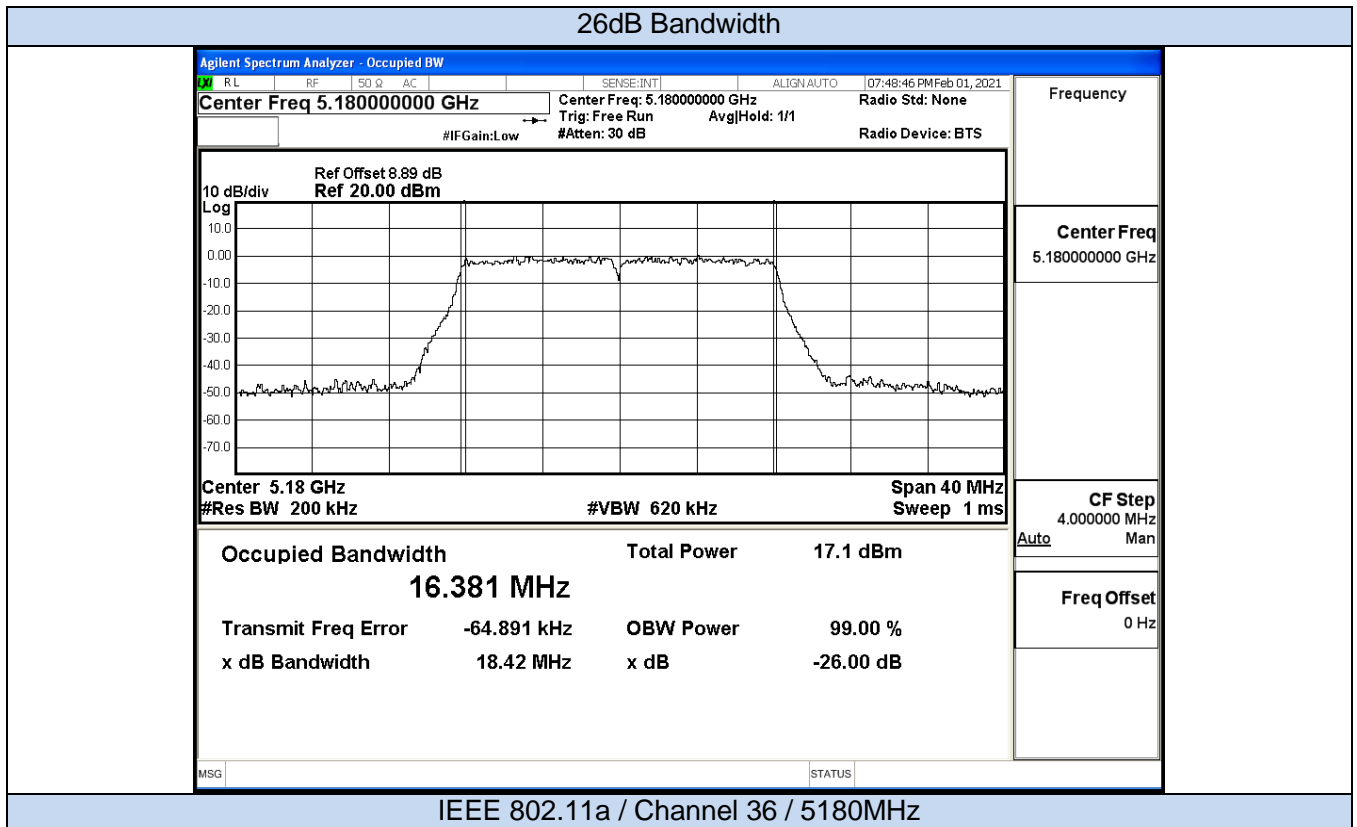
IEEE 802.11ac40 / Channel 46 / 5230MHz

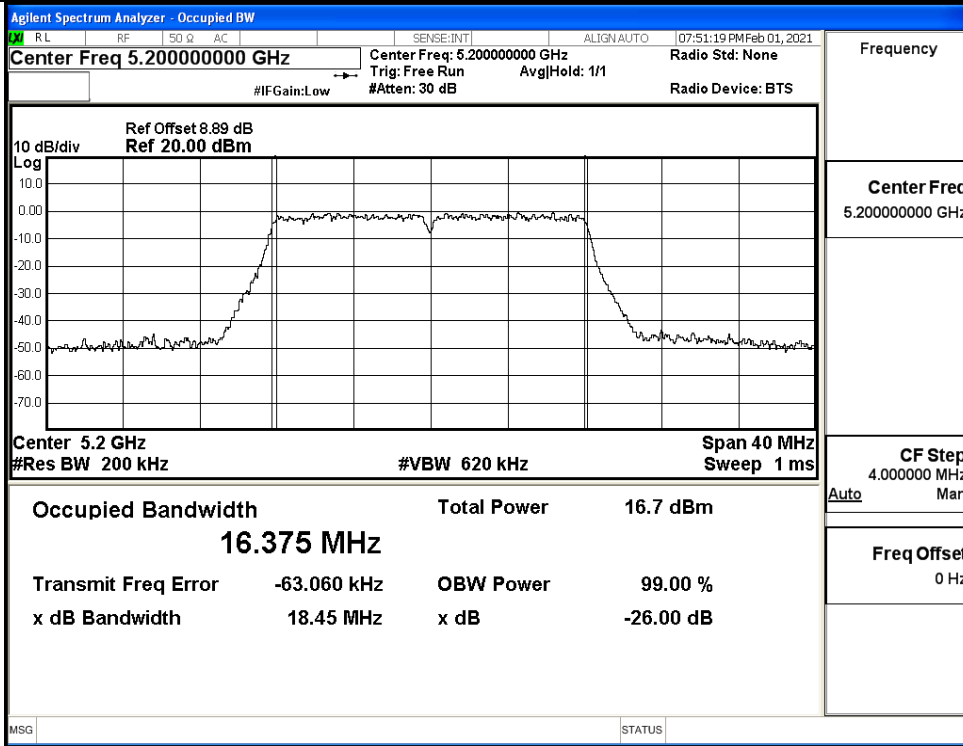


IEEE 802.11ac80 / Channel 42 / 5210MHz

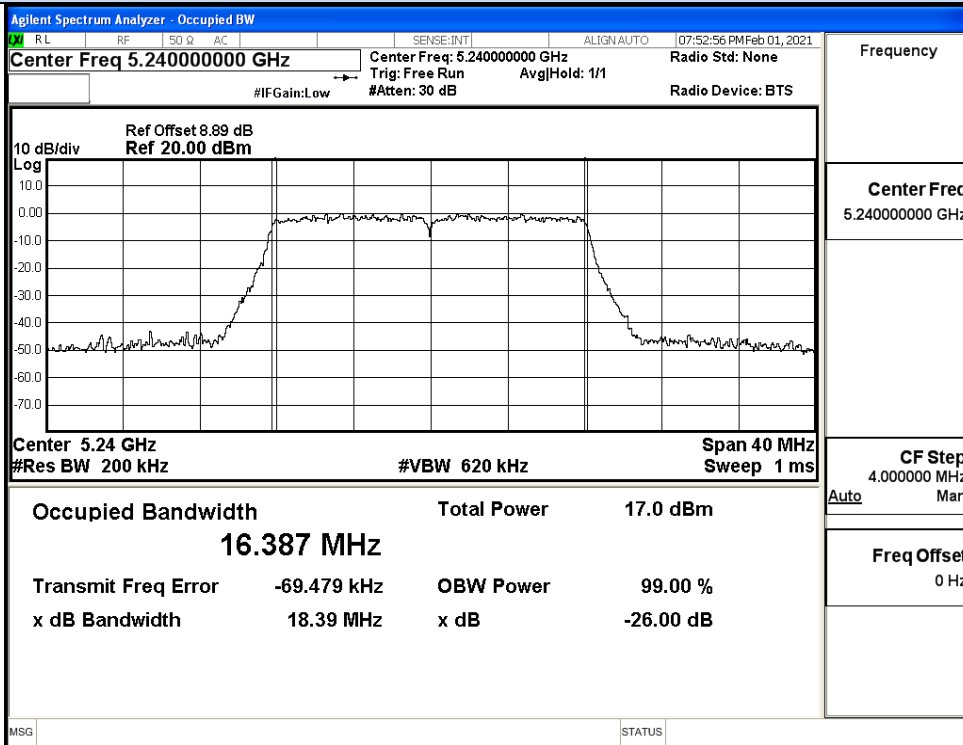
ANT1

Test Mode	Channel	Frequency (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
11A	36	5180	18.42	No Limit	Pass
	40	5200	18.45		Pass
	48	5240	18.39		Pass
11N20 SISO	36	5180	19.43	No Limit	Pass
	40	5200	19.45		Pass
	48	5240	19.35		Pass
11N40 SISO	38	5190	38.95	No Limit	Pass
	46	5230	38.92		Pass
11AC20 SISO	36	5180	19.47	No Limi	Pass
	40	5200	19.51		Pass
	48	5240	19.39		Pass
11AC40 SISO	38	5190	40.99	No Limi	Pass
	46	5230	41.03		Pass
11AC80 SISO	42	5210	81.48	No Limi	Pass





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	08:05:52 PM Feb 01, 2021
Center Freq 5.18000000 GHz				Center Freq: 5.18000000 GHz	Trig: Free Run	Avg/Hold: 1/1
#IFGain:Low				#Atten: 30 dB	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	16.3 dBm
17.582 MHz		
Transmit Freq Error	-59.711 kHz	OBW Power 99.00 %
x dB Bandwidth	19.43 MHz	x dB -26.00 dB

Frequency: 5.18000000 GHz
CF Step: 4.000000 MHz
Freq Offset: 0 Hz

IEEE 802.11n20 / Channel 36 / 5180MHz

Agilent Spectrum Analyzer - Occupied BW

RL	RF	SO Q	AC	SENSE:INT	ALIGN:AUTO	08:08:21 PM Feb 01, 2021
Center Freq 5.20000000 GHz				Center Freq: 5.20000000 GHz	Trig: Free Run	Avg/Hold: 1/1
#IFGain:Low				#Atten: 30 dB	Radio Device: BTS	

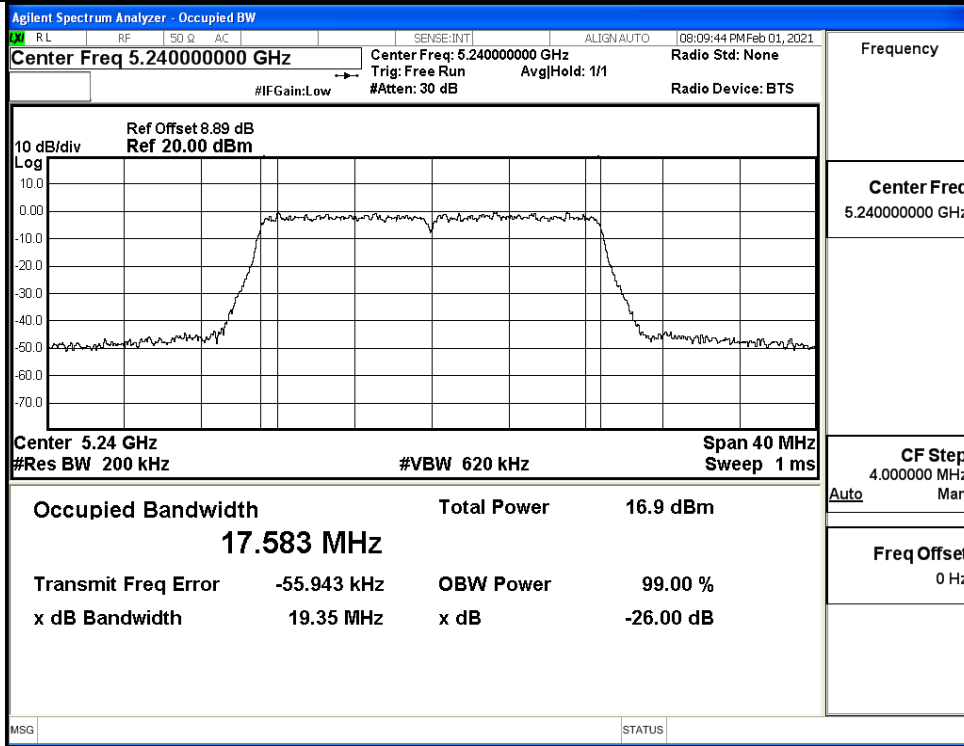
Ref Offset 8.89 dB
Ref 20.00 dBm

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

Occupied Bandwidth	Total Power	16.5 dBm
17.591 MHz		
Transmit Freq Error	-56.994 kHz	OBW Power 99.00 %
x dB Bandwidth	19.45 MHz	x dB -26.00 dB

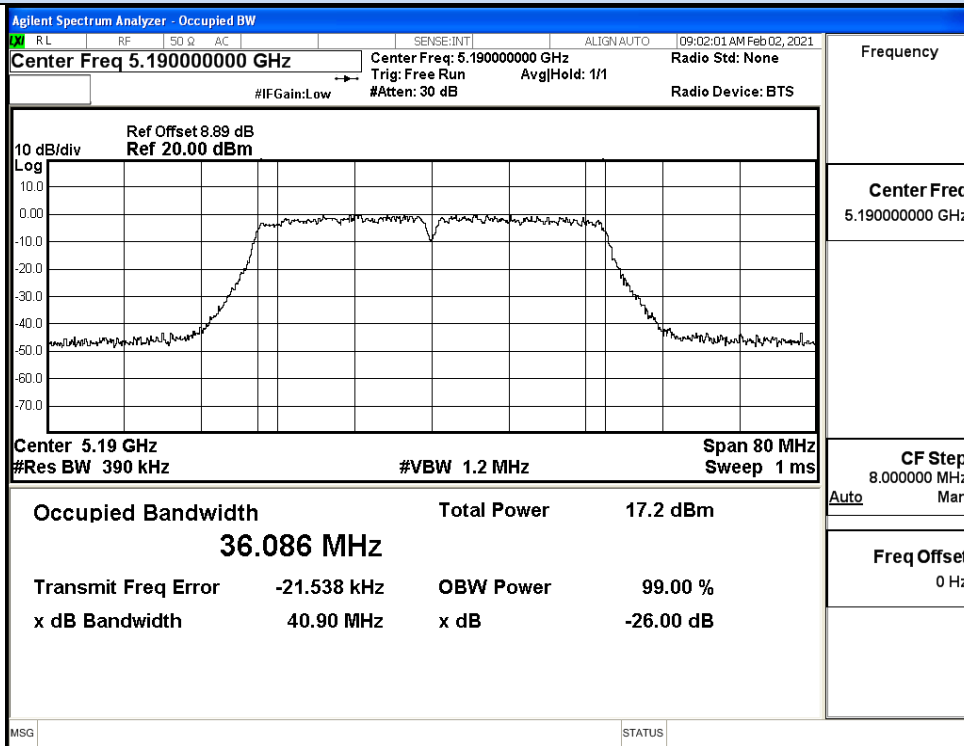
Frequency: 5.20000000 GHz
CF Step: 4.000000 MHz
Freq Offset: 0 Hz

IEEE 802.11n20 / Channel 40 / 5200MHz

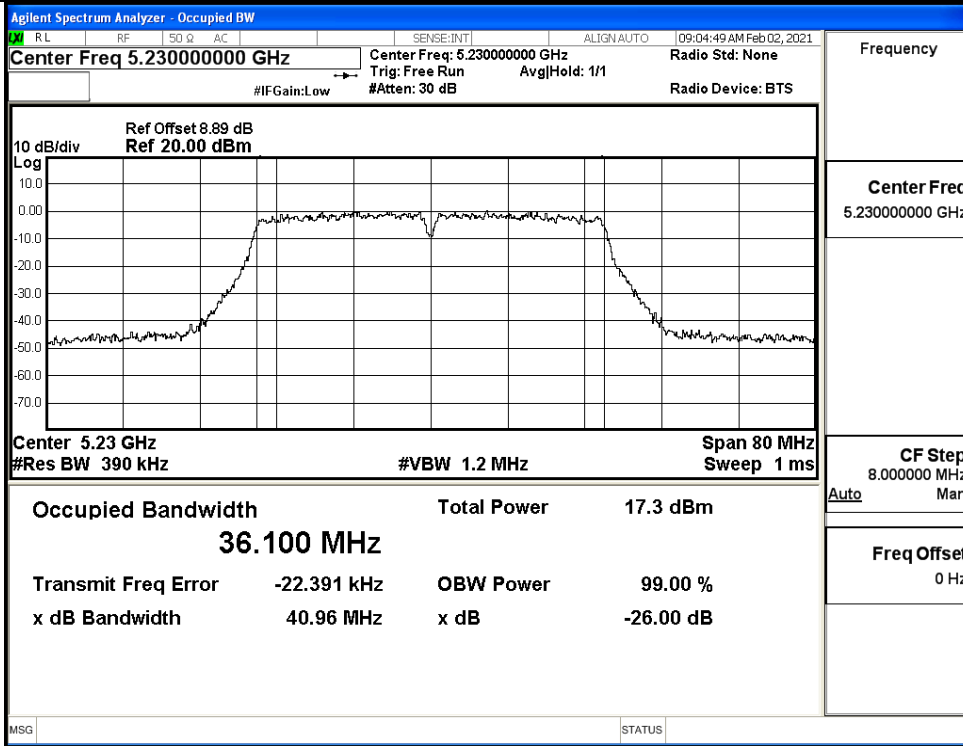


IEEE 802.11n20 / Channel 48 / 5240MHz

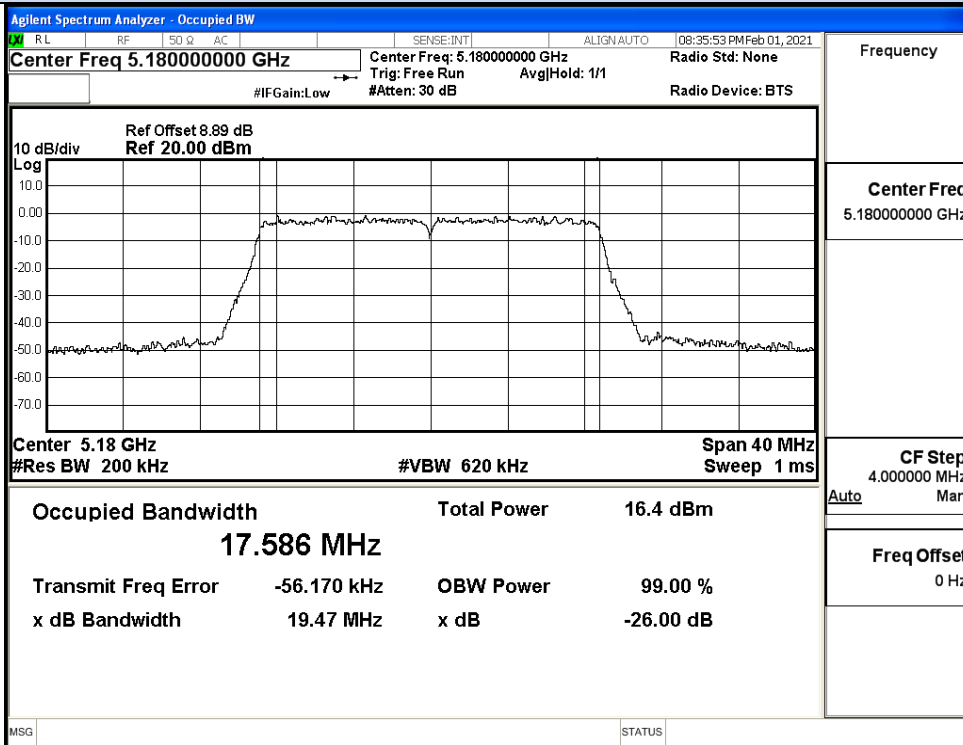
26dB Bandwidth



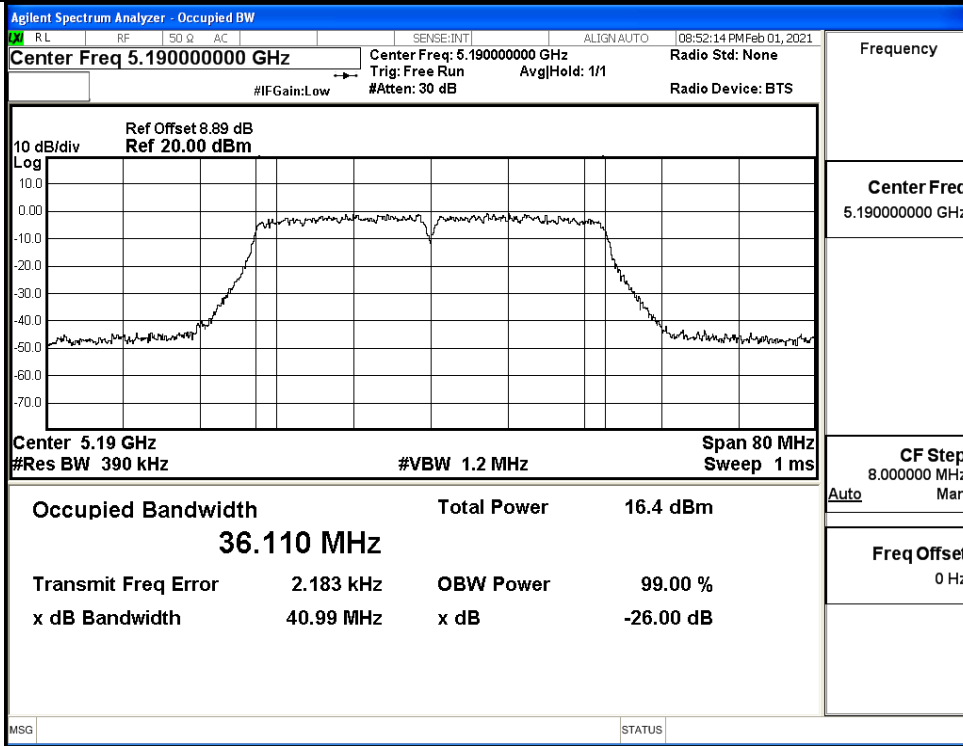
IEEE 802.11n40 / Channel 38 / 5190MHz



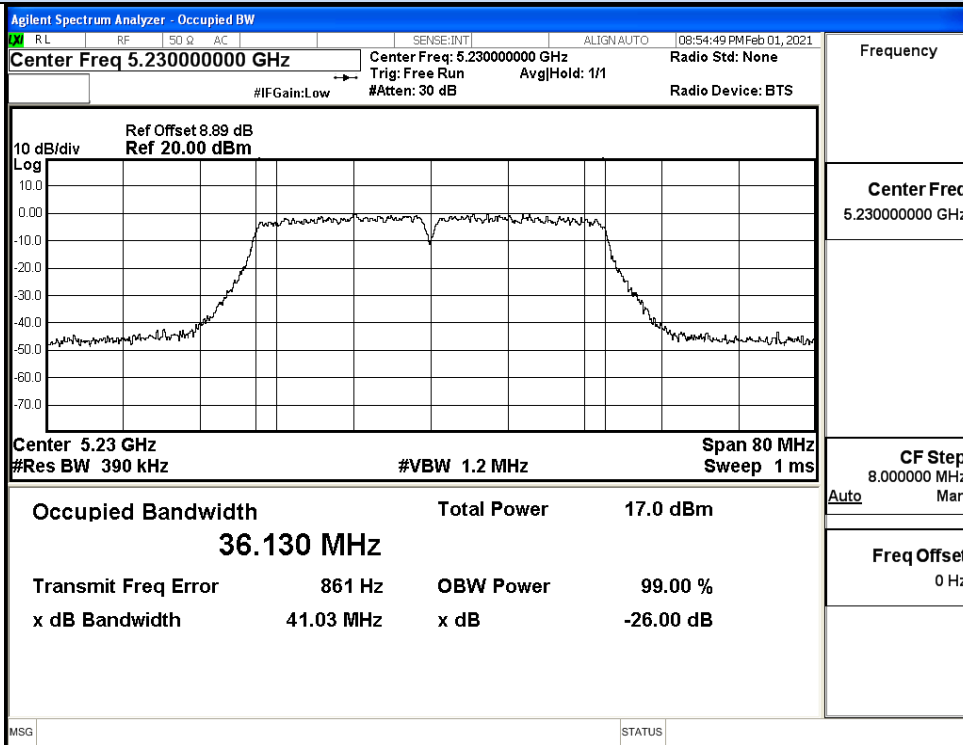
IEEE 802.11n40 / Channel 46 / 5230MHz



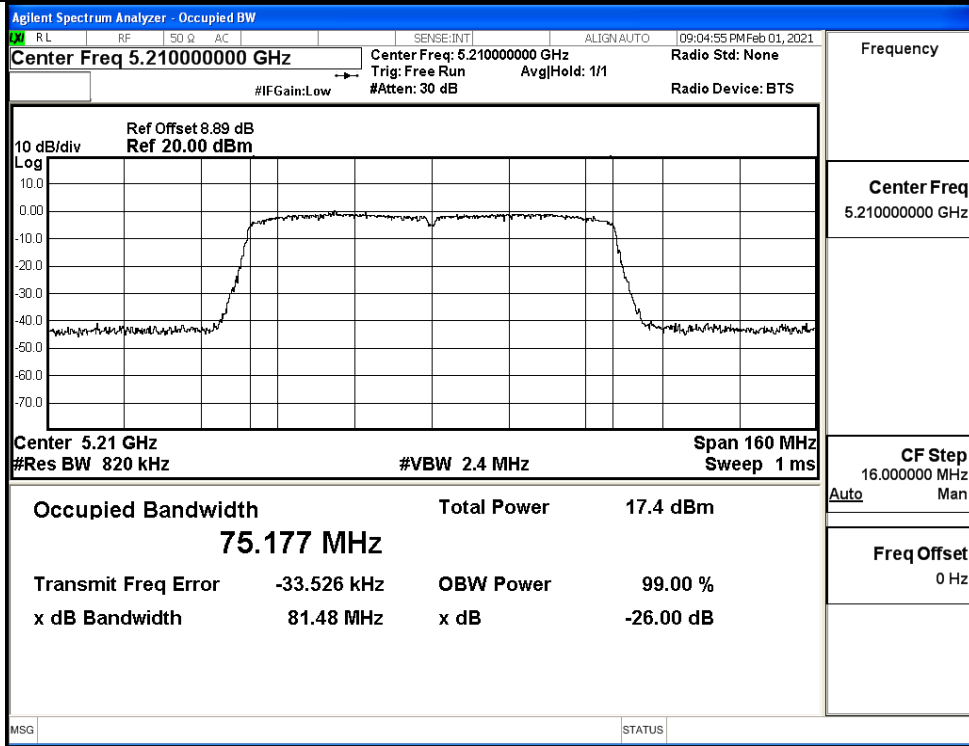
IEEE 802.11ac20 / Channel 36 / 5180MHz



IEEE 802.11ac40 / Channel 38 / 5190MHz



IEEE 802.11ac40 / Channel 46 / 5230MHz



IEEE 802.11ac80 / Channel 42 / 5210MHz

B.5 Undesirable Emissions Measurement

ANT0

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	-49.07	4.5	0	50.66	Peak	68.20	Pass
		4500.0	-59.75	4.5	0	39.98	Average	54.00	Pass
		5150.0	-46.48	4.5	0	53.25	Peak	68.20	Pass
		5150.0	-56.52	4.5	0	43.21	Average	54.00	Pass
	48	5350.0	-47.11	4.5	0	52.62	Peak	68.20	Pass
		5350.0	-58.79	4.5	0	40.94	Average	54.00	Pass
		5460.0	-49.11	4.5	0	50.62	Peak	68.20	Pass
		5460.0	-59.16	4.5	0	40.57	Average	54.00	Pass
11N20 SISO	36	4500.0	-49.94	4.5	0	49.79	Peak	68.20	Pass
		4500.0	-59.74	4.5	0	39.99	Average	54.00	Pass
		5150.0	-46.20	4.5	0	53.53	Peak	68.20	Pass
		5150.0	-56.36	4.5	0	43.37	Average	54.00	Pass
	48	5350.0	-47.55	4.5	0	52.18	Peak	68.20	Pass
		5350.0	-58.76	4.5	0	40.97	Average	54.00	Pass
		5460.0	-47.41	4.5	0	52.32	Peak	68.20	Pass
		5460.0	-59.11	4.5	0	40.62	Average	54.00	Pass
11N40 SISO	38	4500.0	-50.26	4.5	0	49.47	Peak	68.20	Pass
		4500.0	-59.71	4.5	0	40.02	Average	54.00	Pass
		5150.0	-44.55	4.5	0	55.18	Peak	68.20	Pass
		5150.0	-55.16	4.5	0	44.57	Average	54.00	Pass
	46	5350.0	-47.20	4.5	0	52.53	Peak	68.20	Pass
		5350.0	-58.06	4.5	0	41.67	Average	54.00	Pass
		5460.0	-49.08	4.5	0	50.65	Peak	68.20	Pass
		5460.0	-58.56	4.5	0	41.17	Average	54.00	Pass
11AC20 SISO	36	4500.0	-49.22	4.5	0	50.51	Peak	68.20	Pass
		4500.0	-59.71	4.5	0	40.02	Average	54.00	Pass
		5150.0	-46.45	4.5	0	53.28	Peak	68.20	Pass
		5150.0	-56.35	4.5	0	43.38	Average	54.00	Pass
	48	4500.0	-49.22	4.5	0	50.51	Peak	68.20	Pass
		4500.0	-59.71	4.5	0	40.02	Average	54.00	Pass
		5150.0	-46.45	4.5	0	53.28	Peak	68.20	Pass
		5150.0	-56.35	4.5	0	43.38	Average	54.00	Pass
11AC40 SISO	38	4500.0	-49.87	4.5	0	49.86	Peak	68.20	Pass
		4500.0	-59.72	4.5	0	40.01	Average	54.00	Pass
		5150.0	-45.05	4.5	0	54.68	Peak	68.20	Pass
		5150.0	-55.02	4.5	0	44.71	Average	54.00	Pass
	46	5350.0	-47.57	4.5	0	52.16	Peak	68.20	Pass
		5350.0	-58.01	4.5	0	41.72	Average	54.00	Pass
		5460.0	-47.38	4.5	0	52.35	Peak	68.20	Pass
		5460.0	-58.55	4.5	0	41.18	Average	54.00	Pass
11AC80 SISO	42	4500.0	-46.50	4.5	0	53.23	Peak	68.20	Pass
		4500.0	-57.10	4.5	0	42.63	Average	54.00	Pass
		5150.0	-47.97	4.5	0	51.76	Peak	68.20	Pass
		5150.0	-58.09	4.5	0	41.64	Average	54.00	Pass
		5350.0	-46.50	4.5	0	53.23	Peak	68.20	Pass
		5350.0	-57.10	4.5	0	42.63	Average	54.00	Pass
		5460.0	-47.97	4.5	0	51.76	Peak	68.20	Pass
		5460.0	-58.09	4.5	0	41.64	Average	54.00	Pass

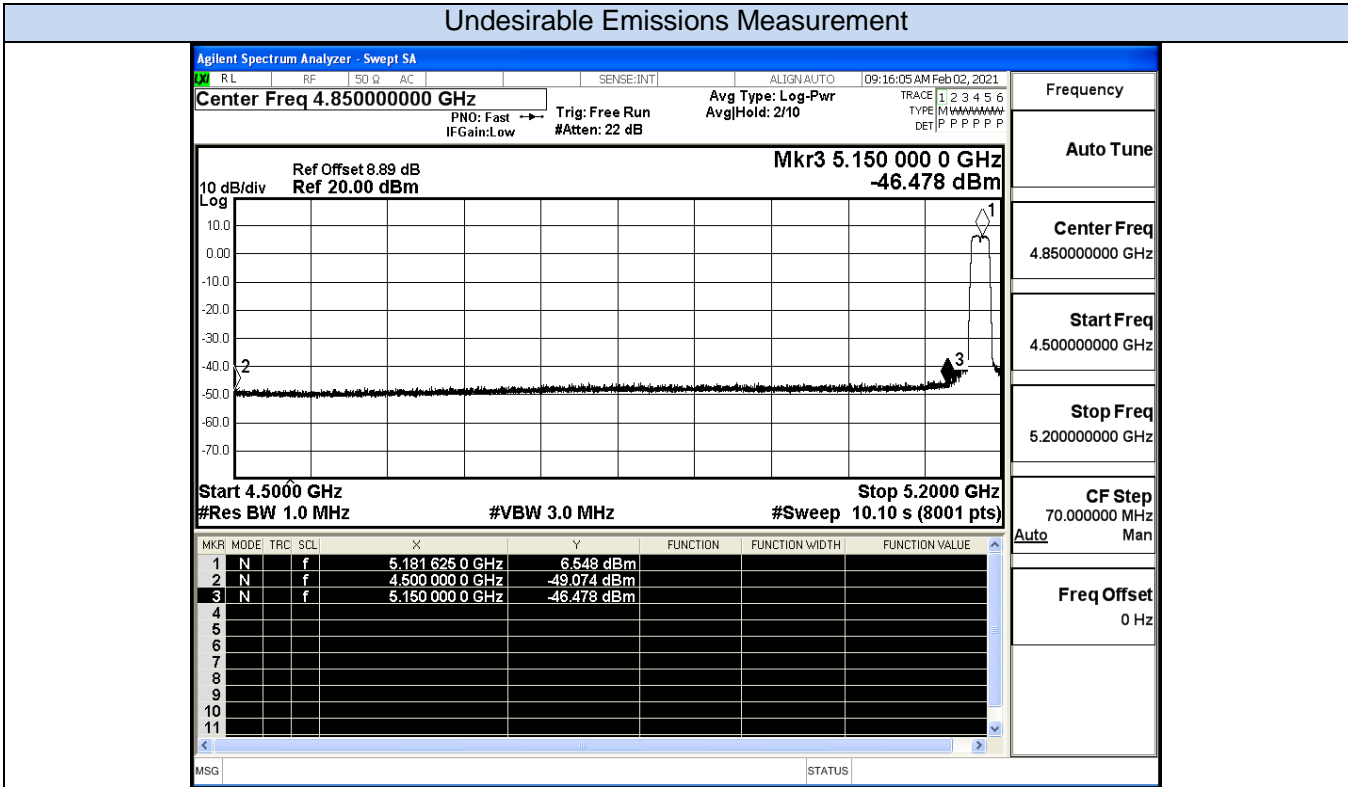
ANT1

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	-48.11	4.5	0	51.62	Peak	68.20	Pass
		4500.0	-59.66	4.5	0	40.07	Average	54.00	Pass
		5150.0	-46.65	4.5	0	53.08	Peak	68.20	Pass
		5150.0	-56.39	4.5	0	43.34	Average	54.00	Pass
	48	5350.0	-48.56	4.5	0	51.17	Peak	68.20	Pass
		5350.0	-58.71	4.5	0	41.02	Average	54.00	Pass
		5460.0	-48.96	4.5	0	50.77	Peak	68.20	Pass
		5460.0	-59.11	4.5	0	40.62	Average	54.00	Pass
11N20 SISO	36	4500.0	-49.88	4.5	0	49.85	Peak	68.20	Pass
		4500.0	-59.70	4.5	0	40.03	Average	54.00	Pass
		5150.0	-46.05	4.5	0	53.68	Peak	68.20	Pass
		5150.0	-56.55	4.5	0	43.18	Average	54.00	Pass
	48	5350.0	-47.94	4.5	0	51.79	Peak	68.20	Pass
		5350.0	-58.71	4.5	0	41.02	Average	54.00	Pass
		5460.0	-47.51	4.5	0	52.22	Peak	68.20	Pass
		5460.0	-59.06	4.5	0	40.67	Average	54.00	Pass
11N40 SISO	38	4500.0	-49.58	4.5	0	50.15	Peak	68.20	Pass
		4500.0	-59.82	4.5	0	39.91	Average	54.00	Pass
		5150.0	-45.75	4.5	0	53.98	Peak	68.20	Pass
		5150.0	-55.81	4.5	0	43.92	Average	54.00	Pass
	46	5350.0	-47.51	4.5	0	52.22	Peak	68.20	Pass
		5350.0	-58.11	4.5	0	41.62	Average	54.00	Pass
		5460.0	-47.70	4.5	0	52.03	Peak	68.20	Pass
		5460.0	-58.60	4.5	0	41.13	Average	54.00	Pass
11AC20 SISO	36	4500.0	-49.25	4.5	0	50.48	Peak	68.20	Pass
		4500.0	-59.68	4.5	0	40.05	Average	54.00	Pass
		5150.0	-46.51	4.5	0	53.22	Peak	68.20	Pass
		5150.0	-56.50	4.5	0	43.23	Average	54.00	Pass
	48	4500.0	-49.25	4.5	0	50.48	Peak	68.20	Pass
		4500.0	-59.68	4.5	0	40.05	Average	54.00	Pass
		5150.0	-46.51	4.5	0	53.22	Peak	68.20	Pass
		5150.0	-56.50	4.5	0	43.23	Average	54.00	Pass
11AC40 SISO	38	4500.0	-48.07	4.5	0	51.66	Peak	68.20	Pass
		4500.0	-59.64	4.5	0	40.09	Average	54.00	Pass
		5150.0	-46.05	4.5	0	53.68	Peak	68.20	Pass
		5150.0	-55.62	4.5	0	44.11	Average	54.00	Pass
	46	5350.0	-48.38	4.5	0	51.35	Peak	68.20	Pass
		5350.0	-57.95	4.5	0	41.78	Average	54.00	Pass
		5460.0	-49.27	4.5	0	50.46	Peak	68.20	Pass
		5460.0	-58.52	4.5	0	41.21	Average	54.00	Pass
11AC80 SISO	42	4500.0	-47.99	4.5	0	51.74	Peak	68.20	Pass
		4500.0	-57.13	4.5	0	42.60	Average	54.00	Pass
		5150.0	-48.31	4.5	0	51.42	Peak	68.20	Pass
		5150.0	-58.09	4.5	0	41.64	Average	54.00	Pass
		5350.0	-47.99	4.5	0	51.74	Peak	68.20	Pass
		5350.0	-57.13	4.5	0	42.60	Average	54.00	Pass
		5460.0	-48.31	4.5	0	51.42	Peak	68.20	Pass
		5460.0	-58.09	4.5	0	41.64	Average	54.00	Pass

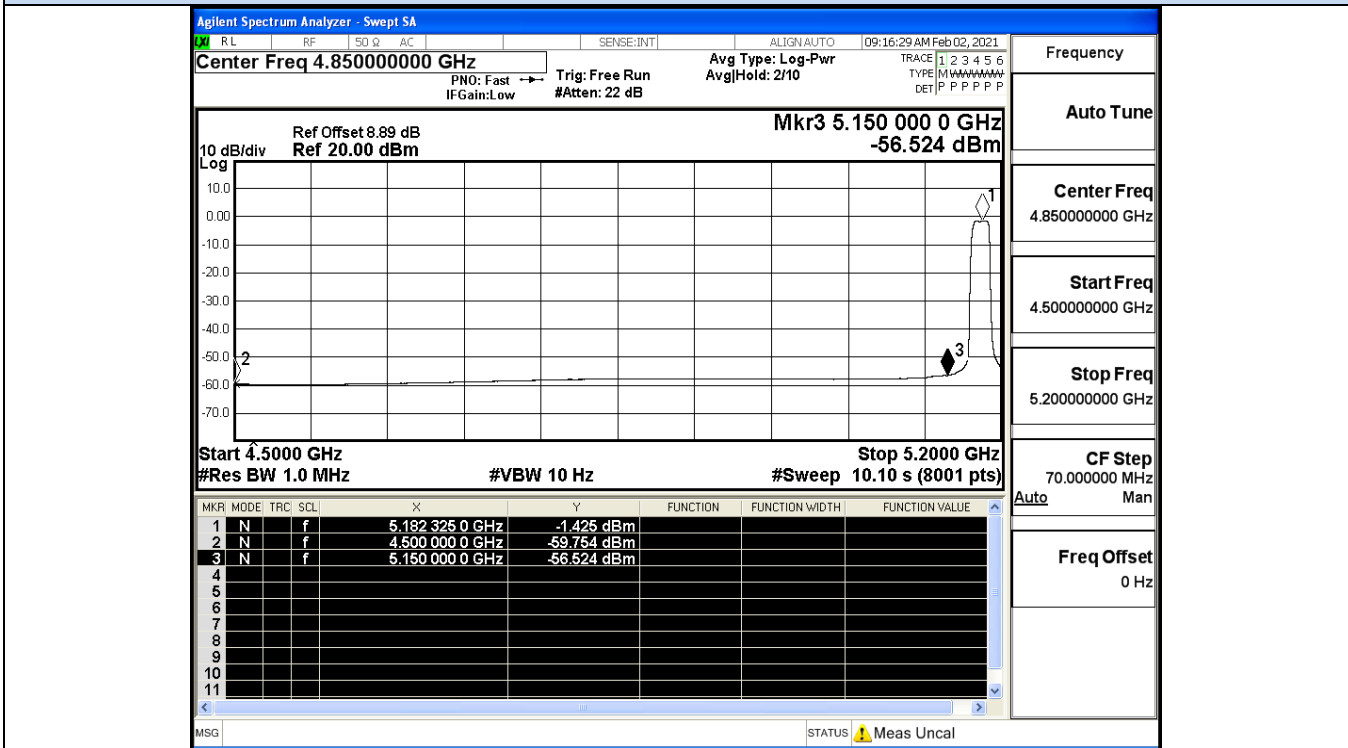
Combined Ant_0 and Ant_1

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
			Ant0	Ant1	Sum						
11N20 SISO	36	4500.0	-49.94	-49.88	-46.90	7.5	0	55.83	Peak	68.20	Pass
		4500.0	-59.74	-59.70	-56.71	7.5	0	46.02	Average	54.00	Pass
		5150.0	-46.20	-46.05	-43.11	7.5	0	59.62	Peak	68.20	Pass
		5150.0	-56.36	-56.55	-53.44	7.5	0	49.29	Average	54.00	Pass
	48	5350.0	-47.55	-47.94	-44.73	7.5	0	58.00	Peak	68.20	Pass
		5350.0	-58.76	-58.71	-55.72	7.5	0	47.01	Average	54.00	Pass
		5460.0	-47.41	-47.51	-44.45	7.5	0	58.28	Peak	68.20	Pass
		5460.0	-59.11	-59.06	-56.07	7.5	0	46.66	Average	54.00	Pass
11N40 SISO	38	4500.0	-50.26	-49.58	-46.90	7.5	0	55.83	Peak	68.20	Pass
		4500.0	-59.71	-59.82	-56.75	7.5	0	45.98	Average	54.00	Pass
		5150.0	-44.55	-45.75	-42.10	7.5	0	60.63	Peak	68.20	Pass
		5150.0	-55.16	-55.81	-52.46	7.5	0	50.27	Average	54.00	Pass
	46	5350.0	-47.20	-47.51	-44.34	7.5	0	58.39	Peak	68.20	Pass
		5350.0	-58.06	-58.11	-55.07	7.5	0	47.66	Average	54.00	Pass
		5460.0	-49.08	-47.70	-45.33	7.5	0	57.40	Peak	68.20	Pass
		5460.0	-58.56	-58.60	-55.57	7.5	0	47.16	Average	54.00	Pass
11AC 20 SISO	36	4500.0	-49.22	-49.25	-46.22	7.5	0	56.51	Peak	68.20	Pass
		4500.0	-59.71	-59.68	-56.68	7.5	0	46.05	Average	54.00	Pass
		5150.0	-46.45	-46.51	-43.47	7.5	0	59.26	Peak	68.20	Pass
		5150.0	-56.35	-56.50	-53.41	7.5	0	49.32	Average	54.00	Pass
	48	4500.0	-49.22	-49.25	-46.22	7.5	0	56.51	Peak	68.20	Pass
		4500.0	-59.71	-59.68	-56.68	7.5	0	46.05	Average	54.00	Pass
		5150.0	-46.45	-46.51	-43.47	7.5	0	59.26	Peak	68.20	Pass
		5150.0	-56.35	-56.50	-53.41	7.5	0	49.32	Average	54.00	Pass
11AC 40 SISO	38	4500.0	-49.87	-48.07	-45.87	7.5	0	56.86	Peak	68.20	Pass
		4500.0	-59.72	-59.64	-56.67	7.5	0	46.06	Average	54.00	Pass
		5150.0	-45.05	-46.05	-42.51	7.5	0	60.22	Peak	68.20	Pass
		5150.0	-55.02	-55.62	-52.30	7.5	0	50.43	Average	54.00	Pass
	46	5350.0	-47.57	-48.38	-44.95	7.5	0	57.78	Peak	68.20	Pass
		5350.0	-58.01	-57.95	-54.97	7.5	0	47.76	Average	54.00	Pass
		5460.0	-47.38	-49.27	-45.21	7.5	0	57.52	Peak	68.20	Pass
		5460.0	-58.55	-58.52	-55.52	7.5	0	47.21	Average	54.00	Pass
11AC 80 SISO	42	4500.0	-46.50	-47.99	-44.17	7.5	0	58.56	Peak	68.20	Pass
		5150.0	-57.10	-57.13	-54.10	7.5	0	48.63	Average	54.00	Pass
		4500.0	-47.97	-48.31	-45.13	7.5	0	57.60	Peak	68.20	Pass
		5150.0	-58.09	-58.09	-55.08	7.5	0	47.65	Average	54.00	Pass
		5350.0	-46.50	-47.99	-44.17	7.5	0	58.56	Peak	68.20	Pass
		5460.0	-57.10	-57.13	-54.10	7.5	0	48.63	Average	54.00	Pass
		5350.0	-47.97	-48.31	-45.13	7.5	0	57.60	Peak	68.20	Pass
		5460.0	-58.09	-58.09	-55.08	7.5	0	47.65	Average	54.00	Pass

ANT0

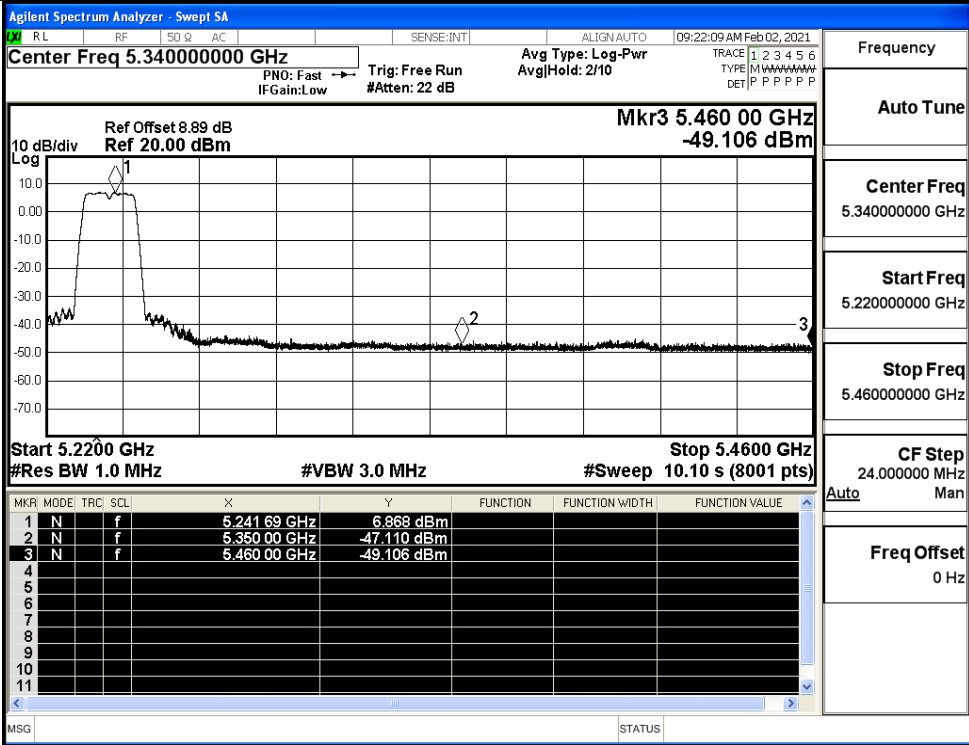


IEEE 802.11a / Channel 36 / 5180MHz / Peak

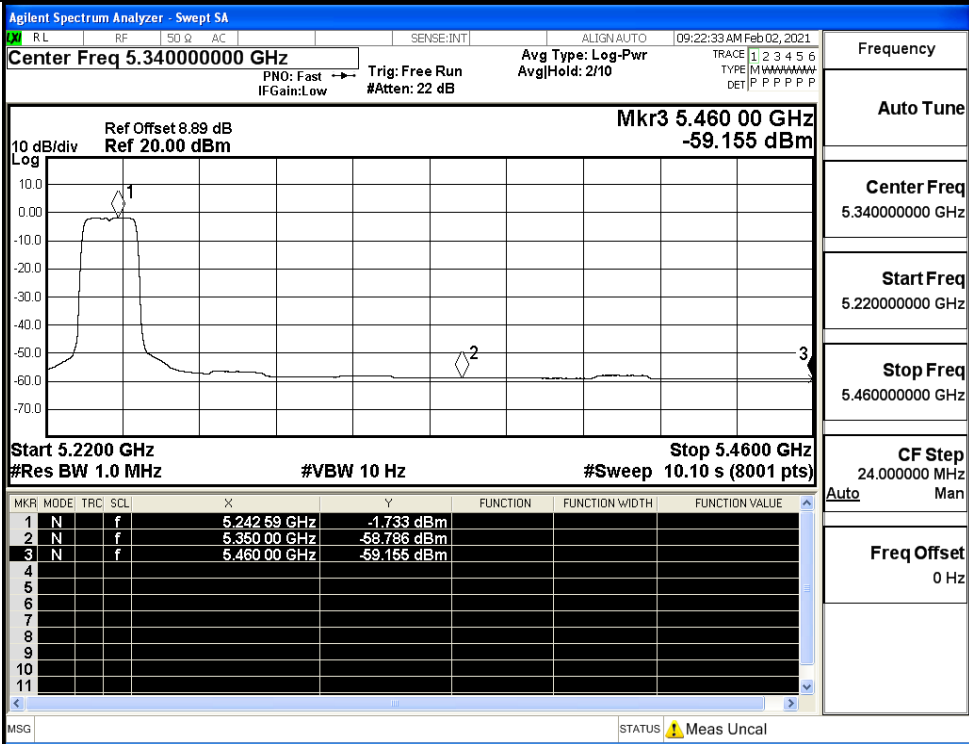


IEEE 802.11a / Channel 36 / 5180MHz / Average

Undesirable Emissions Measurement

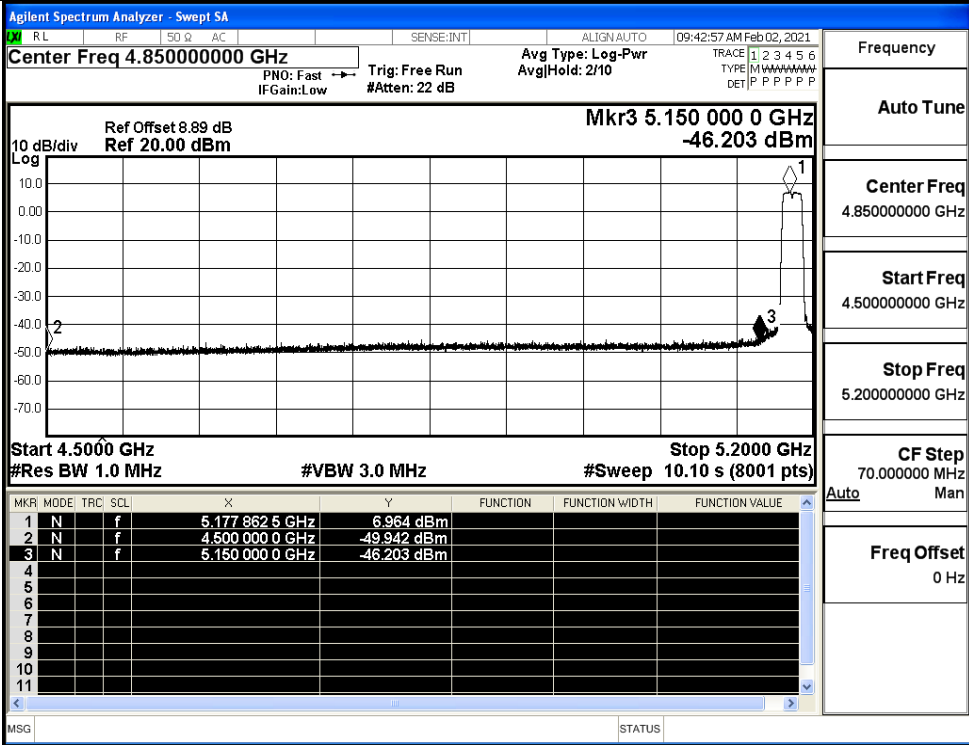


IEEE 802.11a / Channel 48 / 5240MHz / Peak

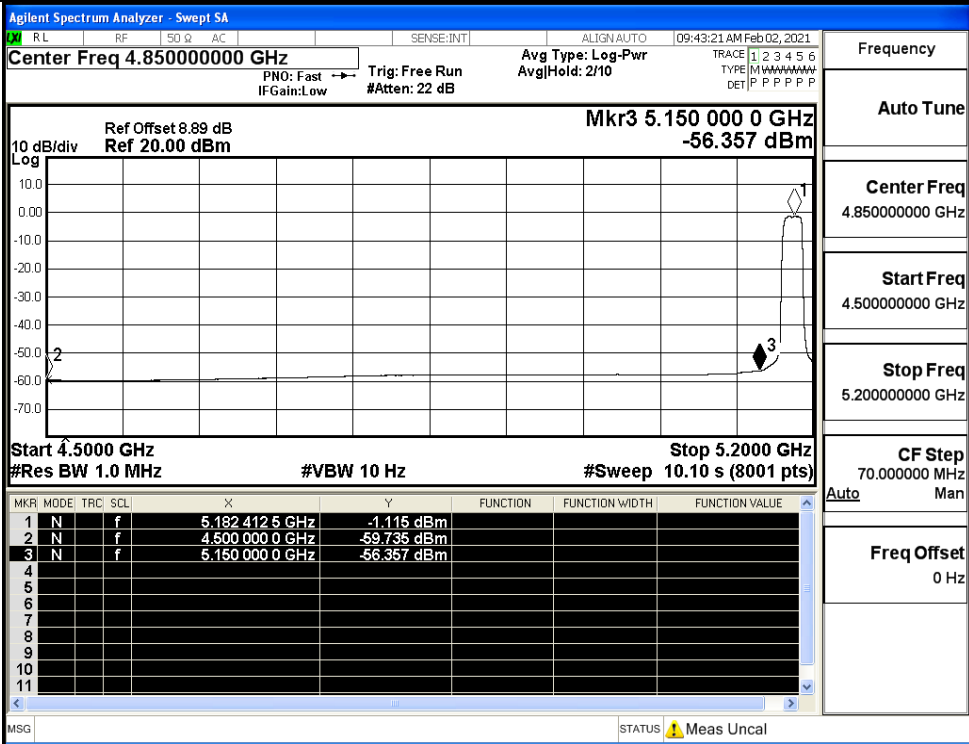


IEEE 802.11a / Channel 48 / 5240MHz / Average

Undesirable Emissions Measurement

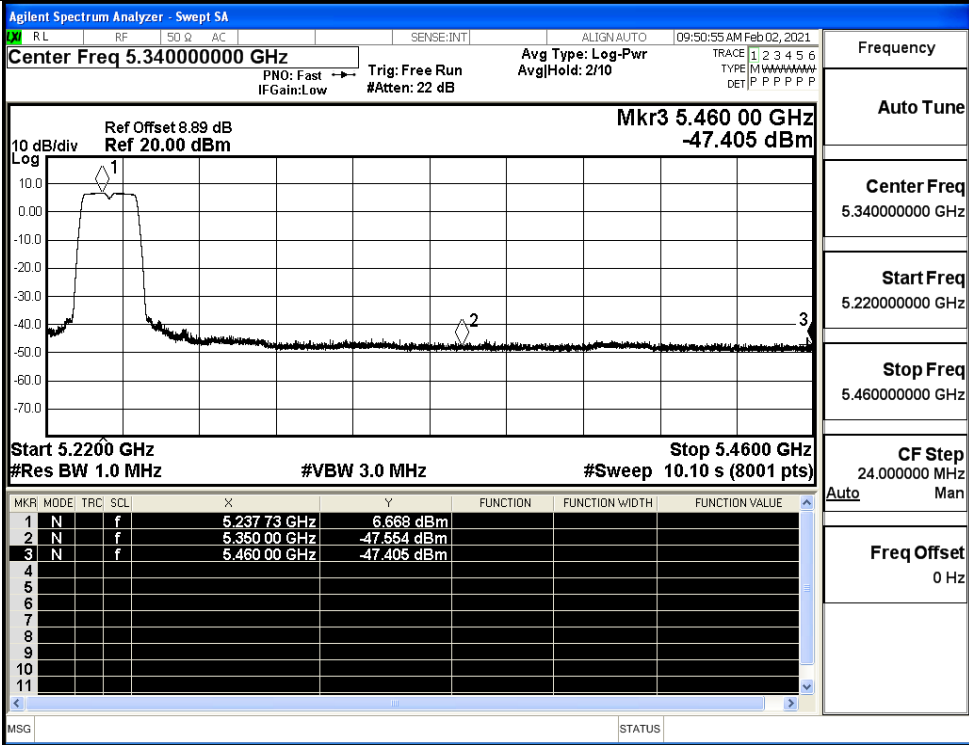


IEEE 802.11n20 / Channel 36 / 5180MHz / Peak

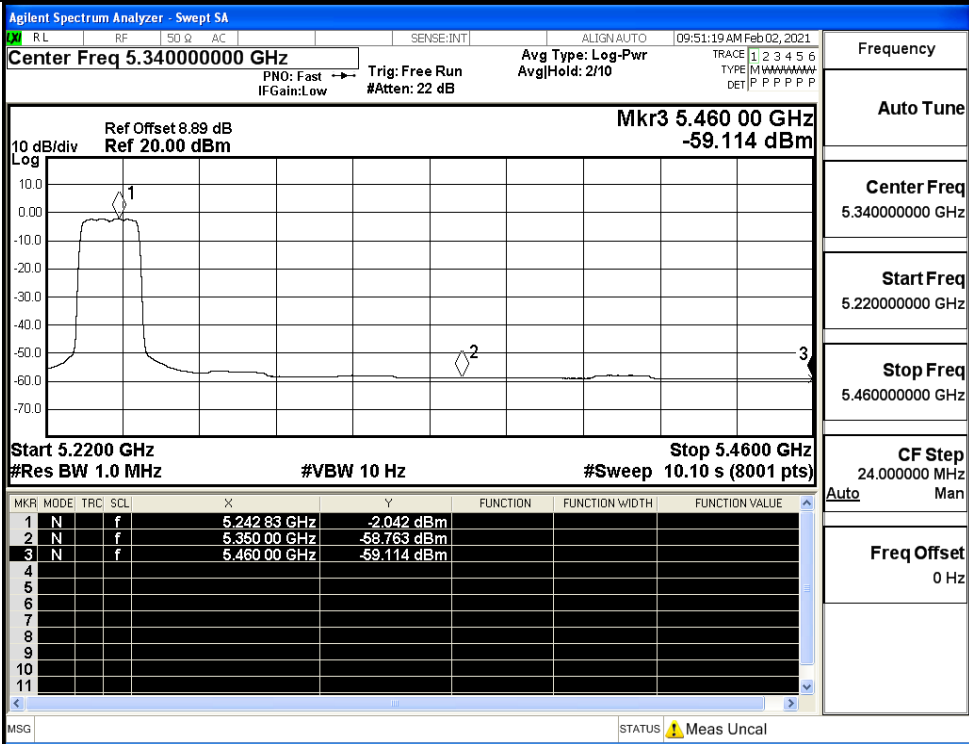


IEEE 802.11n20 / Channel 36 / 5180MHz / Average

Undesirable Emissions Measurement

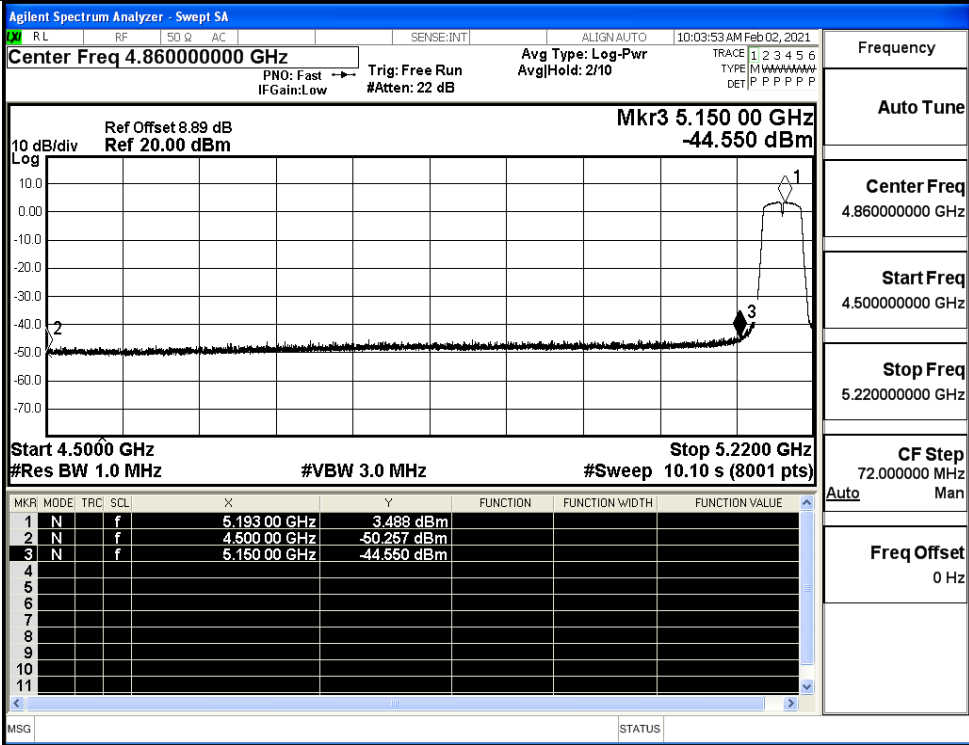


IEEE 802.11n20 / Channel 48 / 5240MHz / Peak

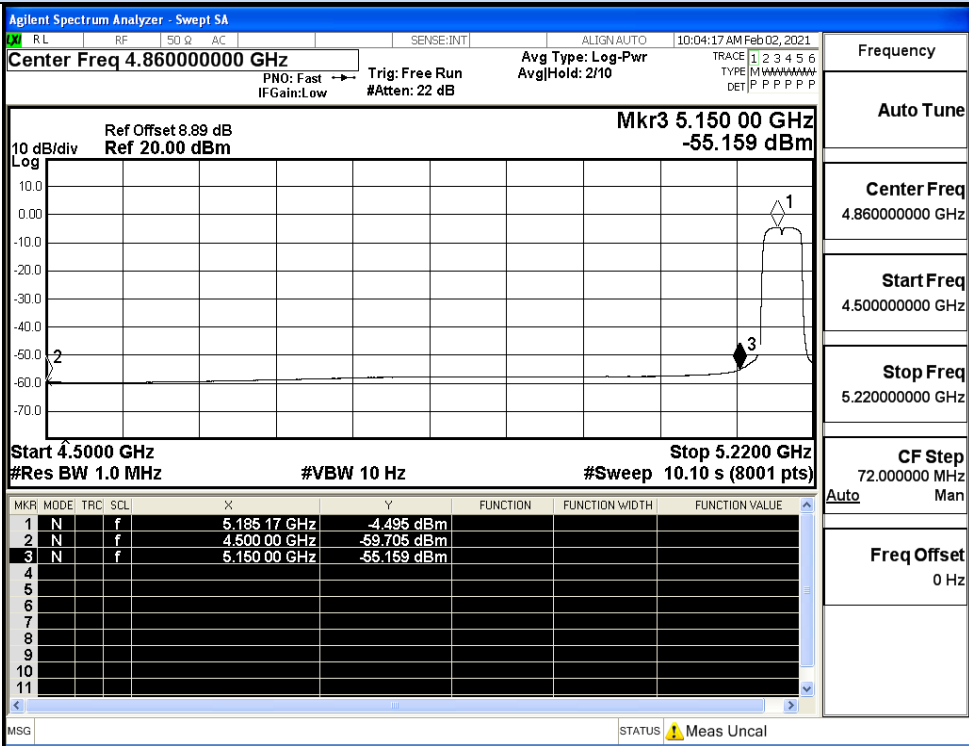


IEEE 802.11n20 / Channel 48 / 5240MHz / Average

Undesirable Emissions Measurement

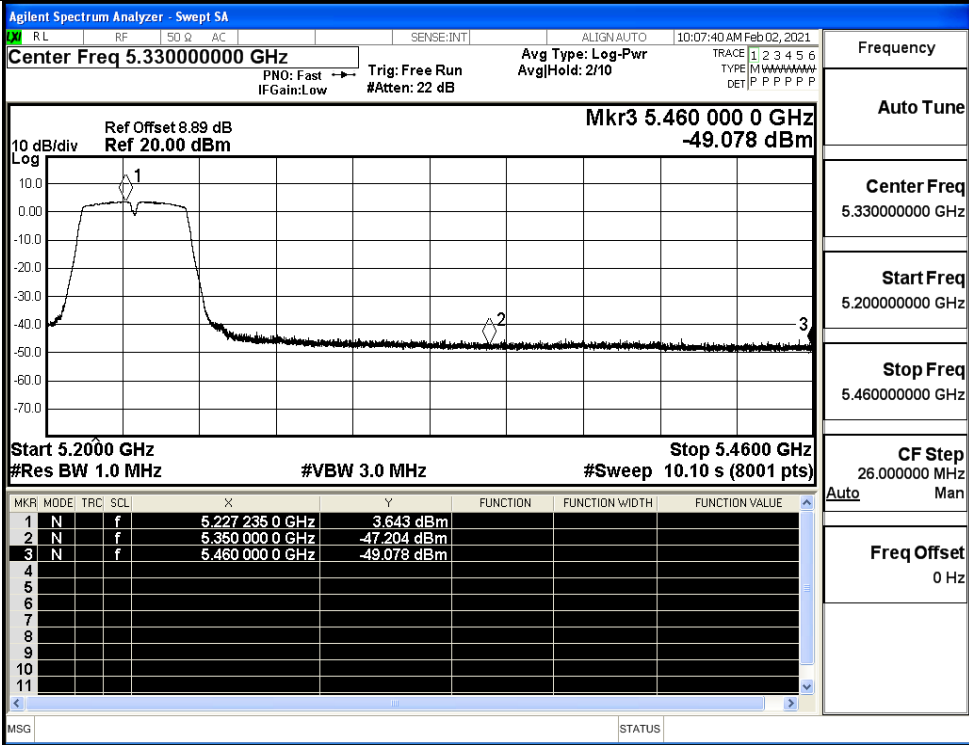


IEEE 802.11n40 / Channel 38 / 5190MHz / Peak

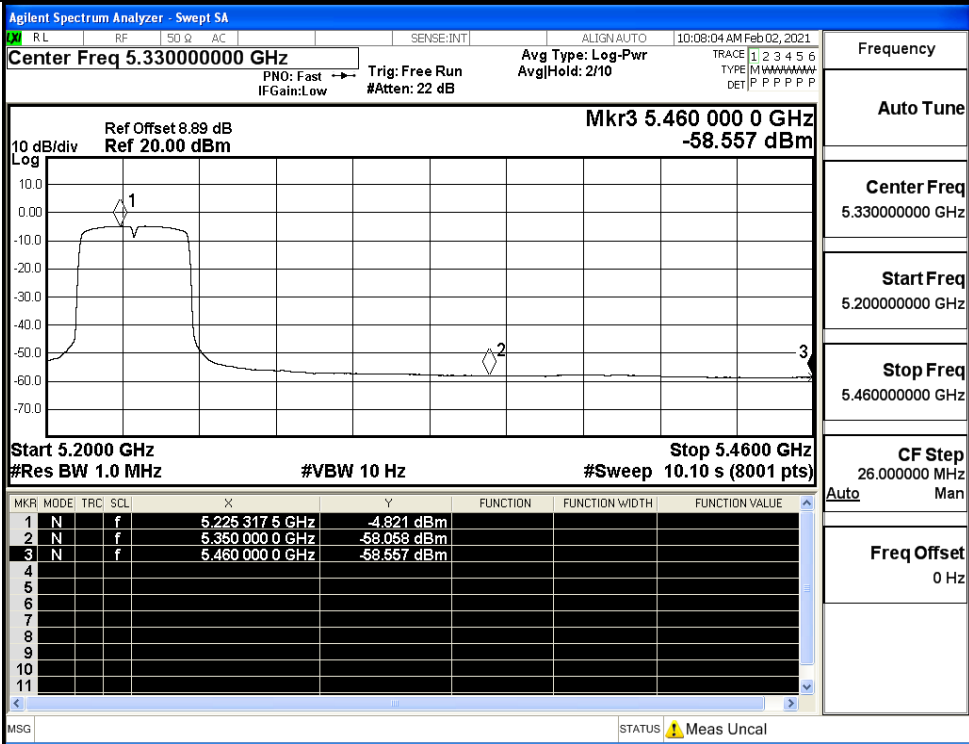


IEEE 802.11n40 / Channel 38 / 5190MHz / Average

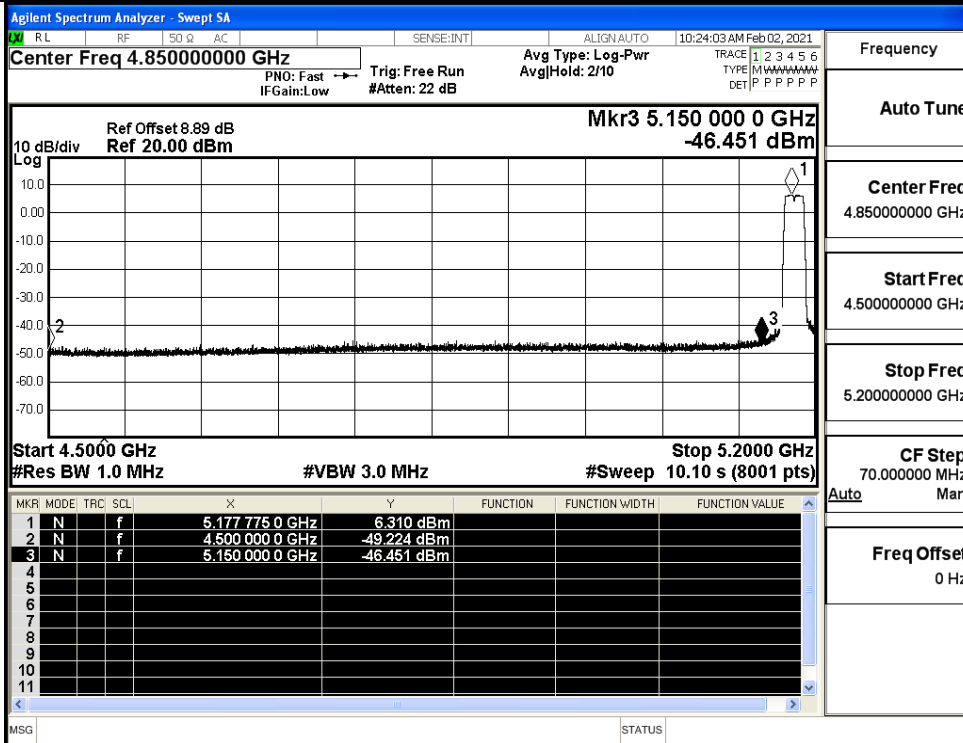
Undesirable Emissions Measurement



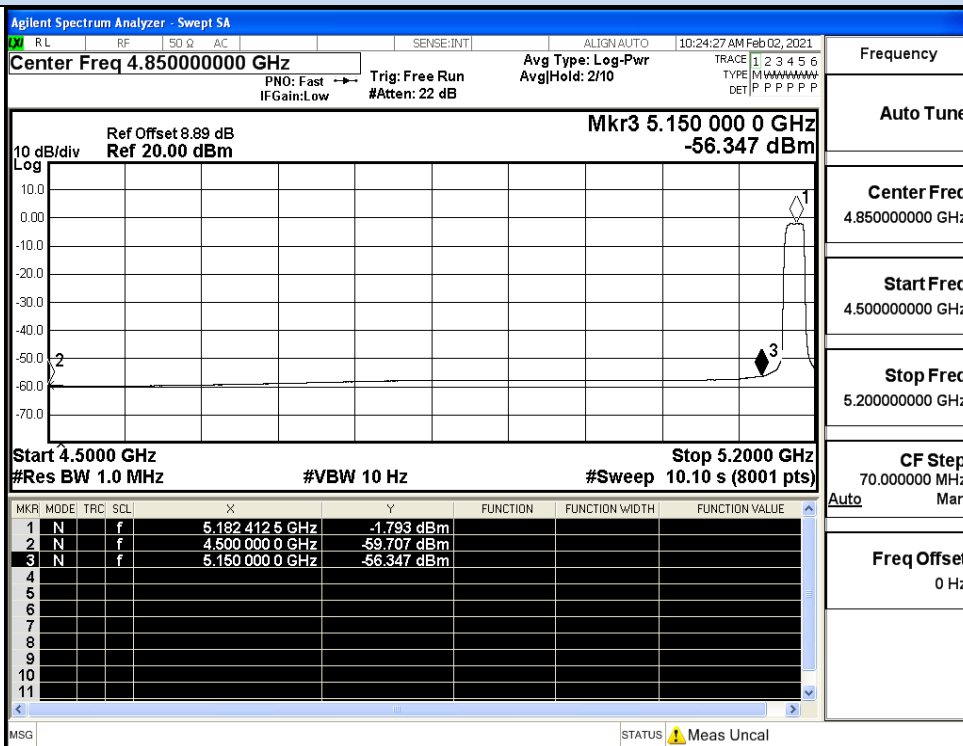
IEEE 802.11n40 / Channel 46 / 5230MHz / Peak



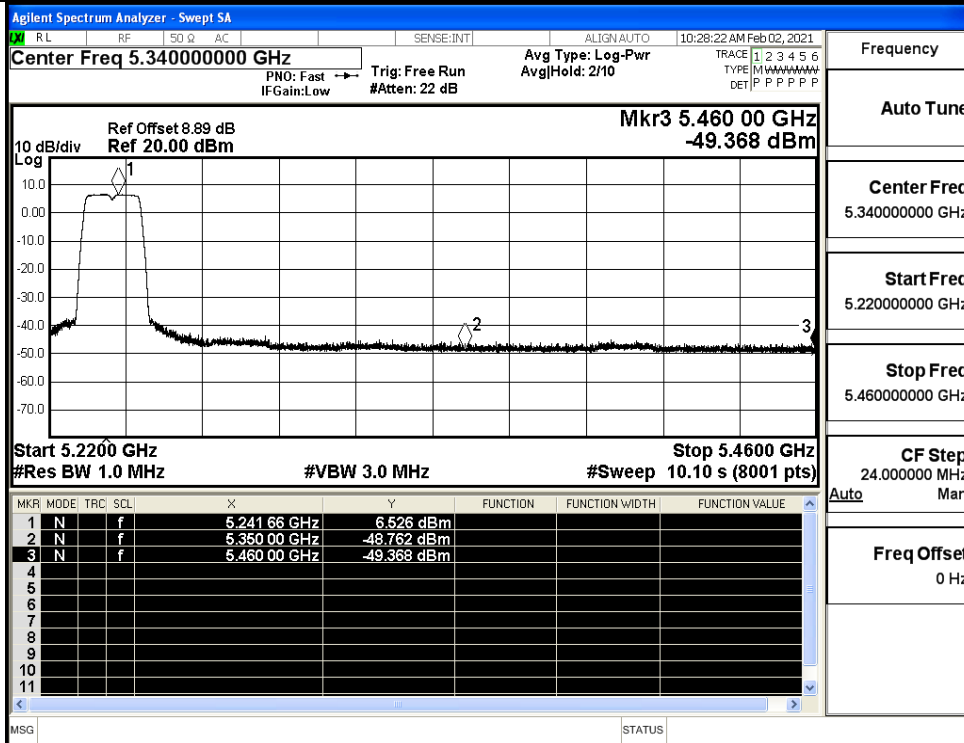
IEEE 802.11n40 / Channel 46 / 5230MHz / Average



IEEE 802.11ac20 / Channel 36 / 5180MHz / Peak

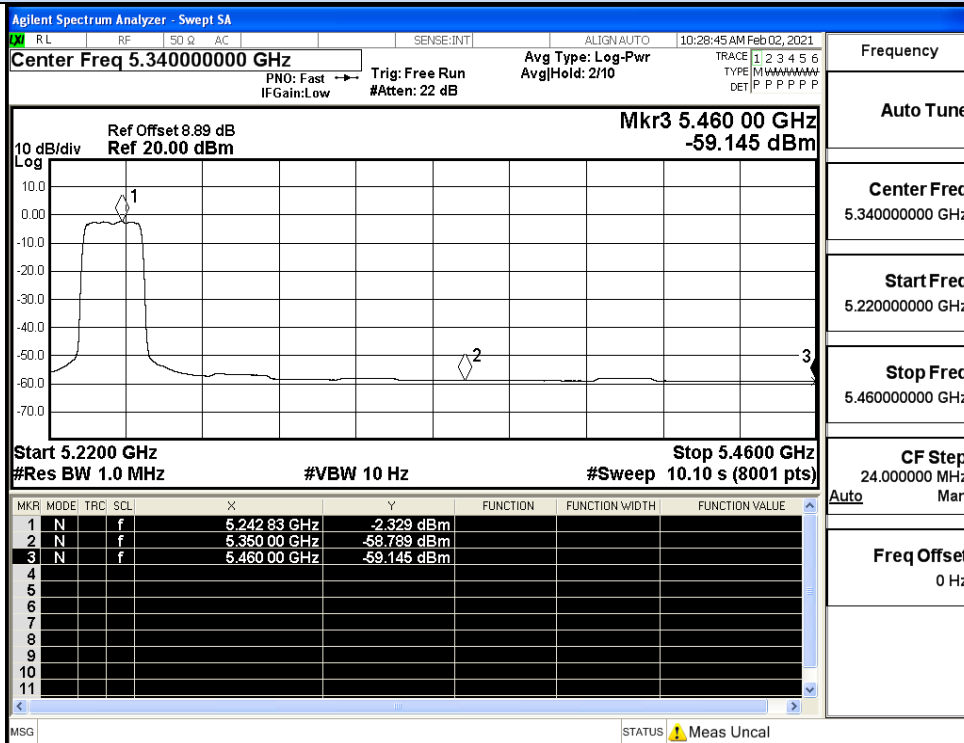


IEEE 802.11ac20 / Channel 36 / 5180MHz / Average



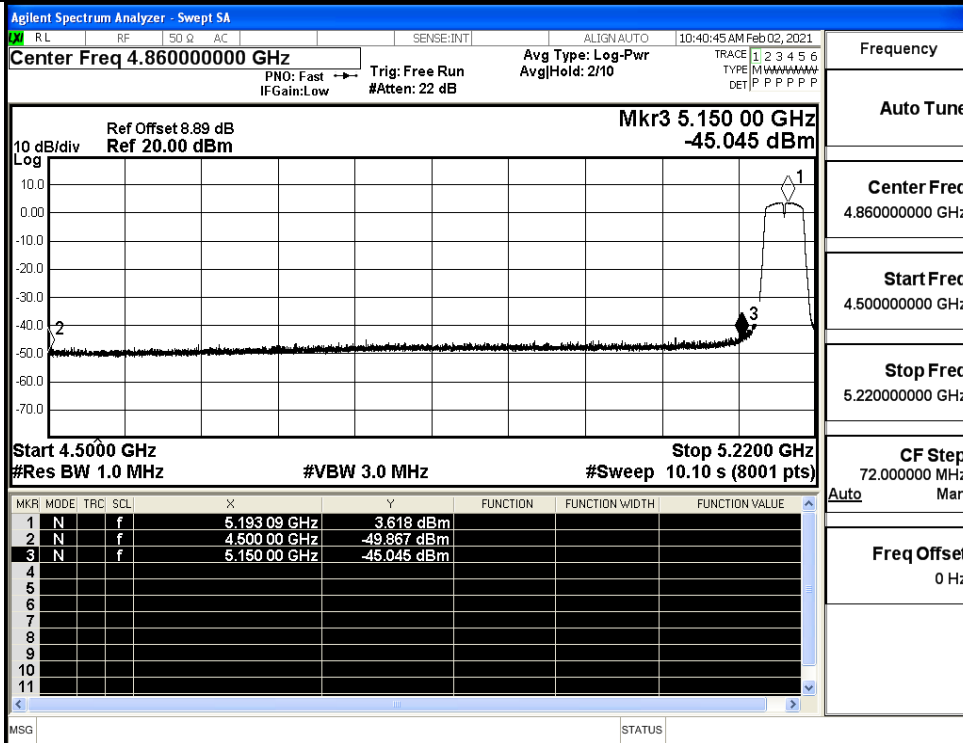
Frequency	5.340000000 GHz
Auto Tune	
Center Freq	5.340000000 GHz
Start Freq	5.220000000 GHz
Stop Freq	5.460000000 GHz
CF Step	24.000000 MHz
Auto	Man
Freq Offset	0 Hz

IEEE 802.11ac20 / Channel 48 / 5240MHz / Peak

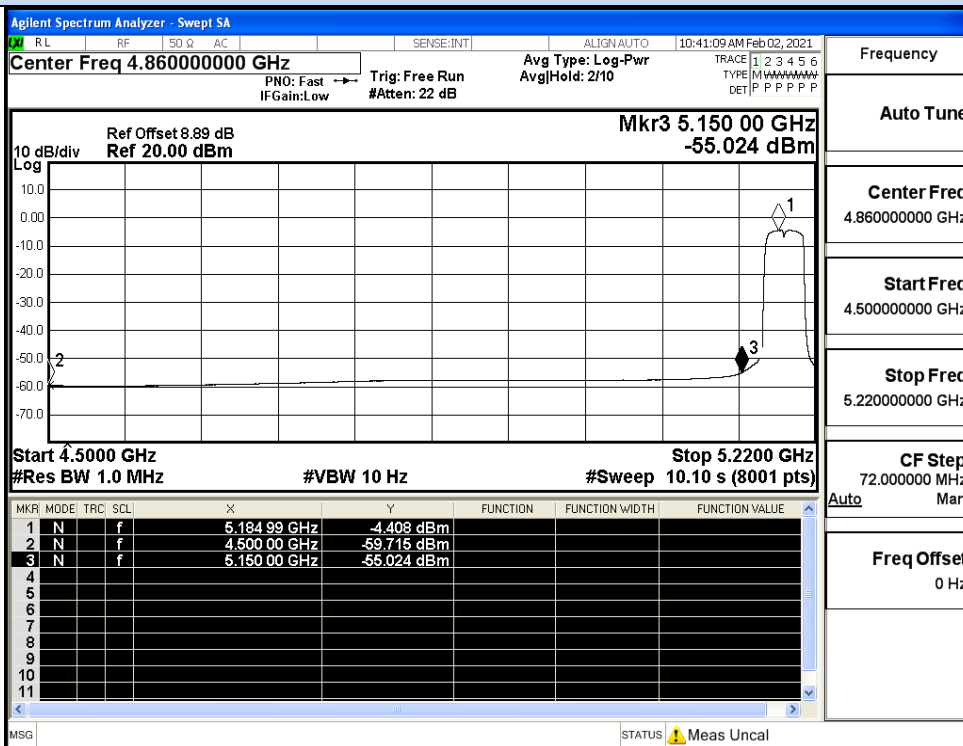


Frequency	5.340000000 GHz
Auto Tune	
Center Freq	5.340000000 GHz
Start Freq	5.220000000 GHz
Stop Freq	5.460000000 GHz
CF Step	24.000000 MHz
Auto	Man
Freq Offset	0 Hz

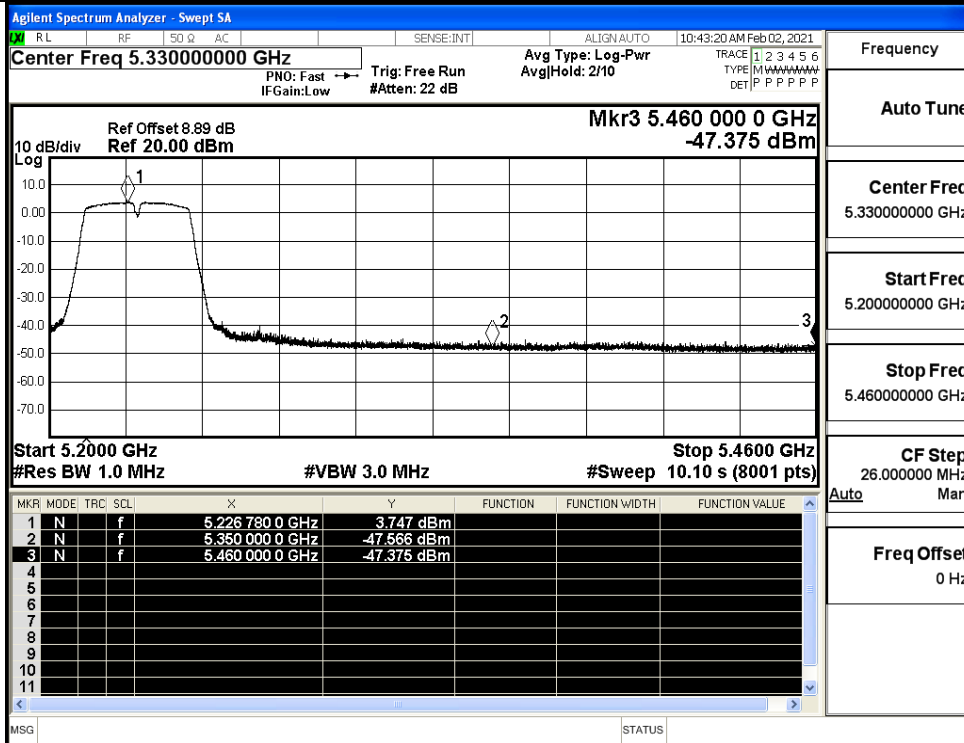
IEEE 802.11ac20 / Channel 48 / 5240MHz / Average



IEEE 802.11ac40 / Channel 38/ 5190MHz / Peak

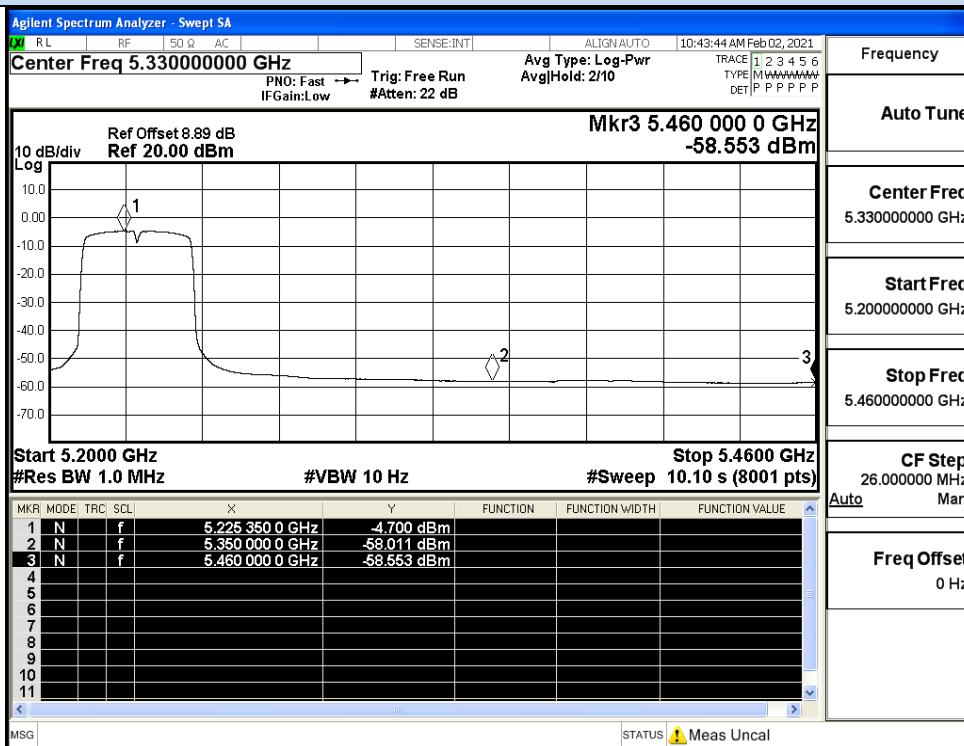


IEEE 802.11ac40 / Channel 38 / 5190MHz / Average



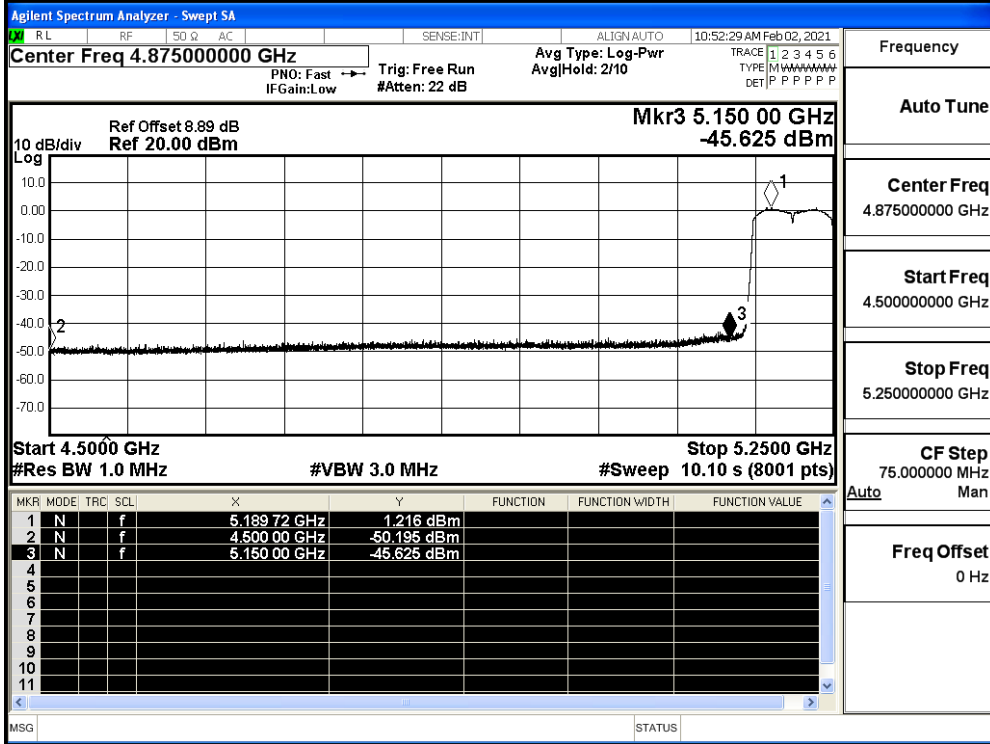
Frequency	5.330000000 GHz
Auto Tune	
Center Freq	5.330000000 GHz
Start Freq	5.200000000 GHz
Stop Freq	5.460000000 GHz
CF Step	26.000000 MHz
Auto	Man
Freq Offset	0 Hz

IEEE 802.11ac40 / Channel 46 / 5230MHz / Peak



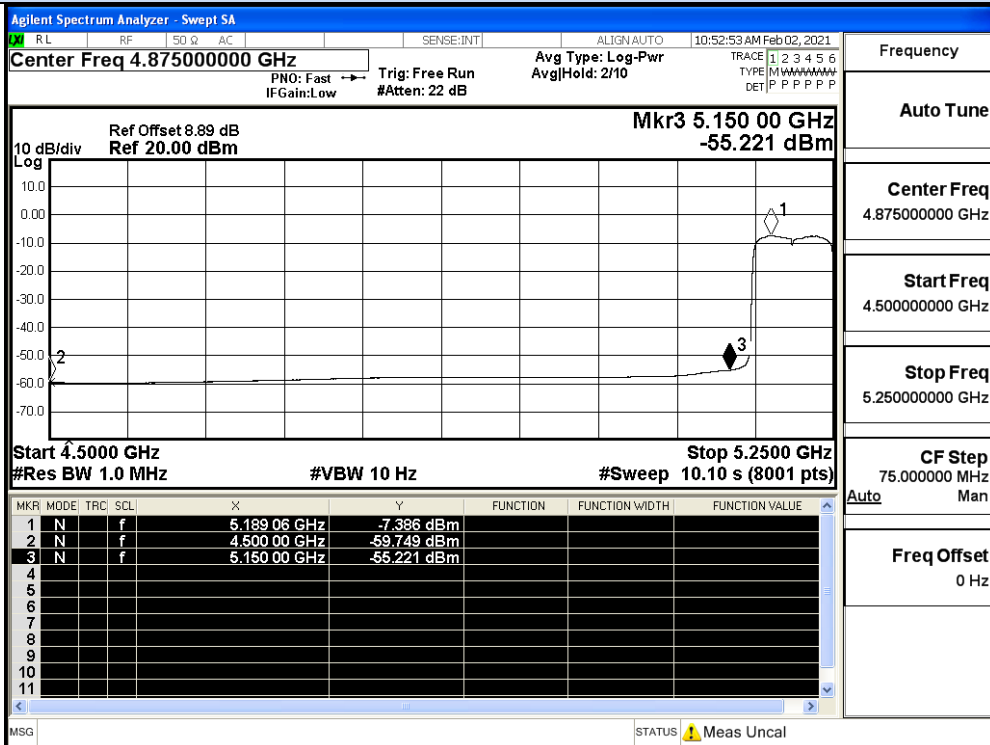
Frequency	5.330000000 GHz
Auto Tune	
Center Freq	5.330000000 GHz
Start Freq	5.200000000 GHz
Stop Freq	5.460000000 GHz
CF Step	26.000000 MHz
Auto	Man
Freq Offset	0 Hz

IEEE 802.11ac40 / Channel 46 / 5230MHz / Average



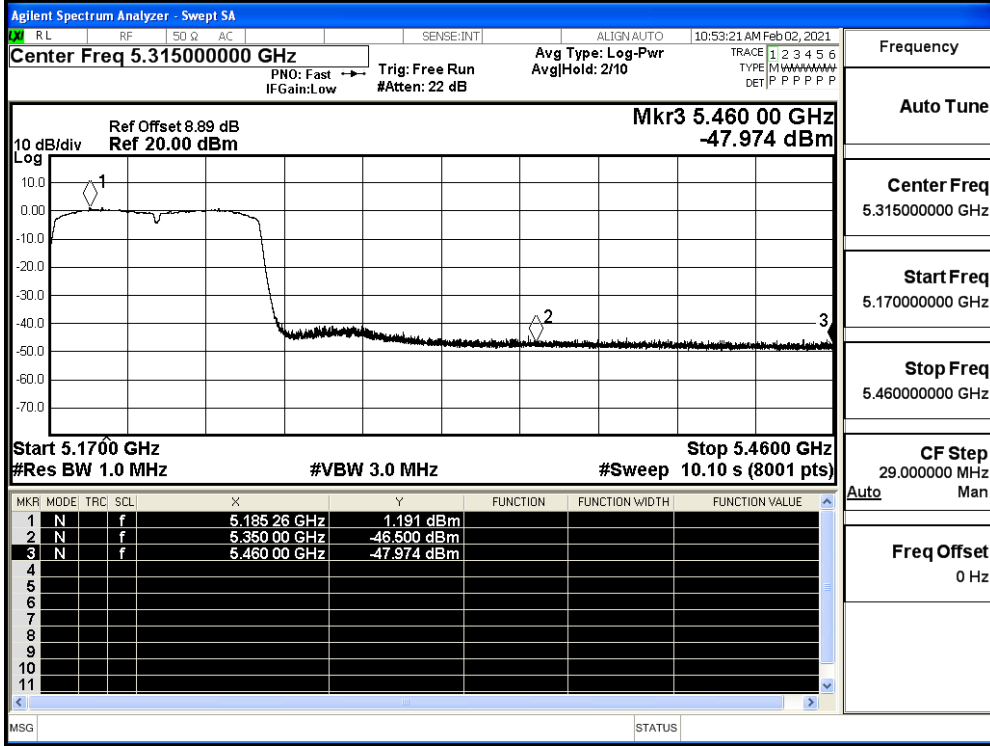
Frequency	
Auto Tune	
Center Freq	4.87500000 GHz
Start Freq	4.50000000 GHz
Stop Freq	5.25000000 GHz
CF Step	75.000000 MHz
Auto	Man
Freq Offset	0 Hz

IEEE 802.11ac80 / Channel 42 / 5210MHz / Peak

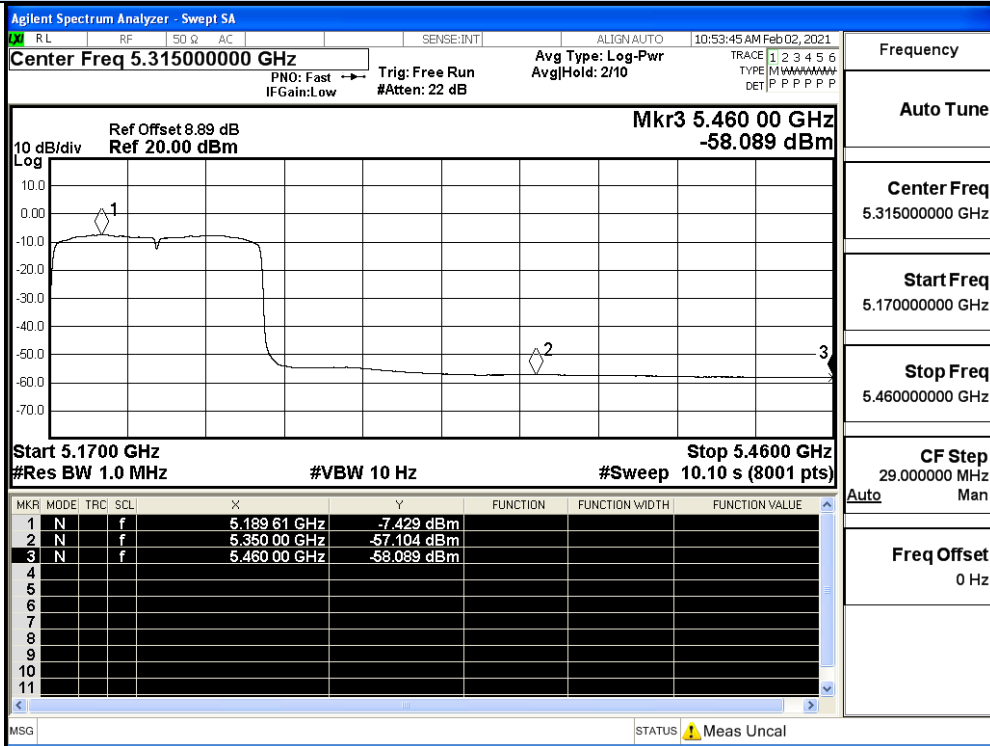


Frequency	
Auto Tune	
Center Freq	4.87500000 GHz
Start Freq	4.50000000 GHz
Stop Freq	5.25000000 GHz
CF Step	75.000000 MHz
Auto	Man
Freq Offset	0 Hz

IEEE 802.11ac80 / Channel 42 / 5210MHz / Average

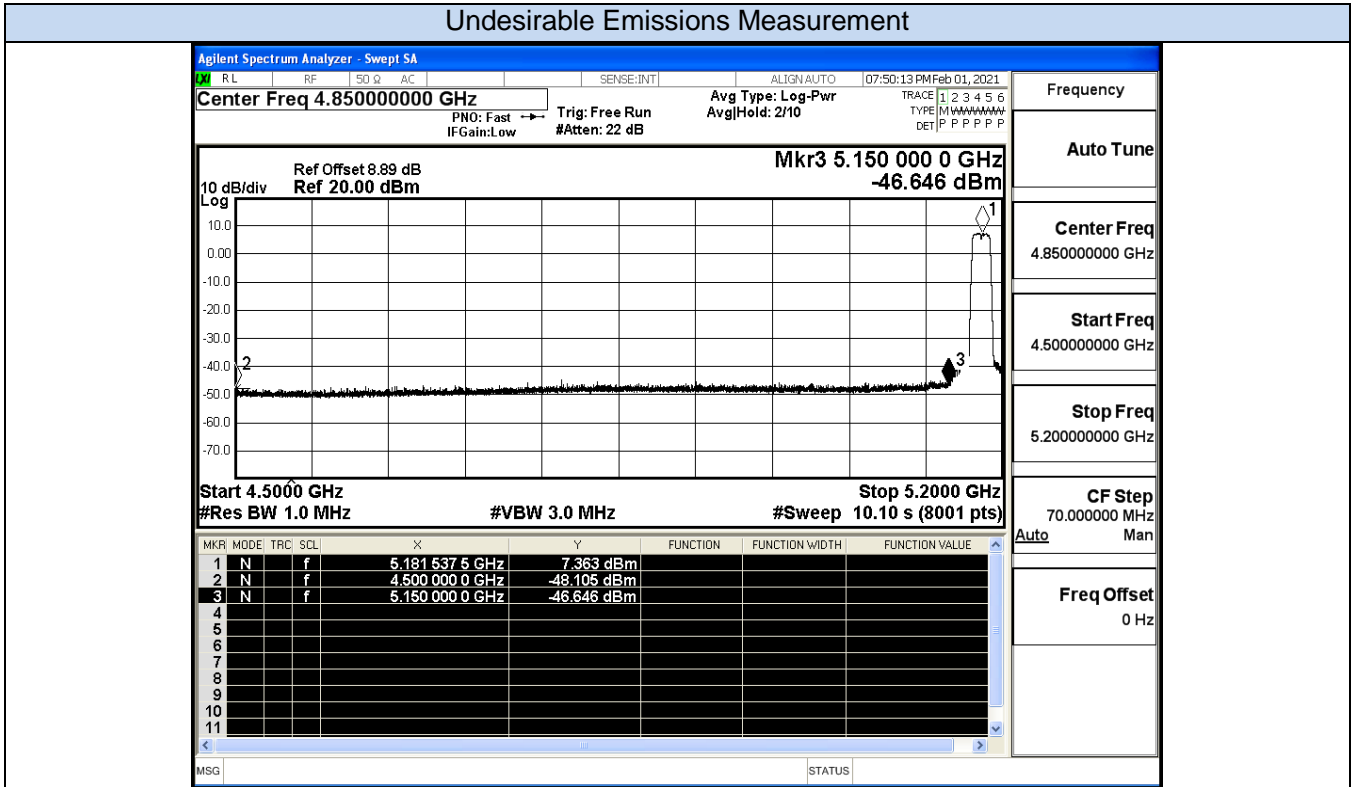


IEEE 802.11ac80 / Channel 42 / 5210MHz / Peak

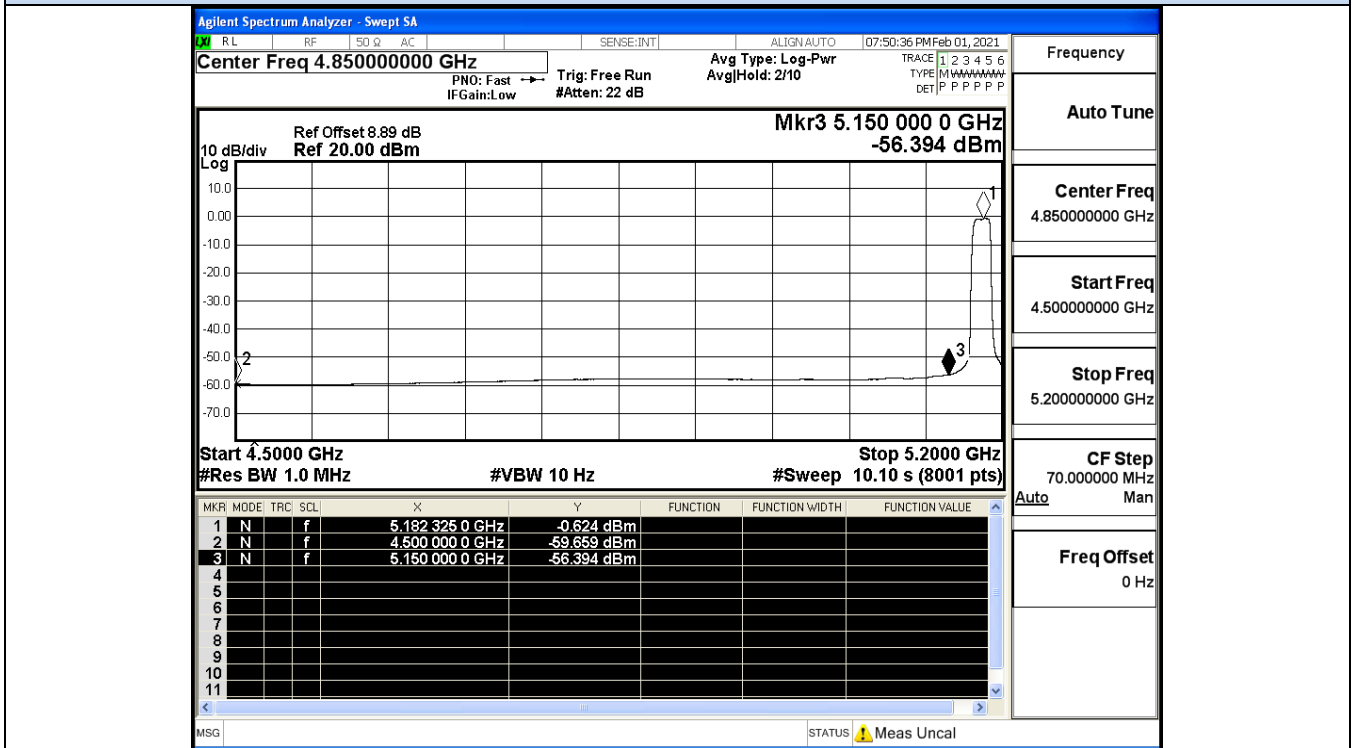


IEEE 802.11ac80 / Channel 42 / 5210MHz / Average

ANT1

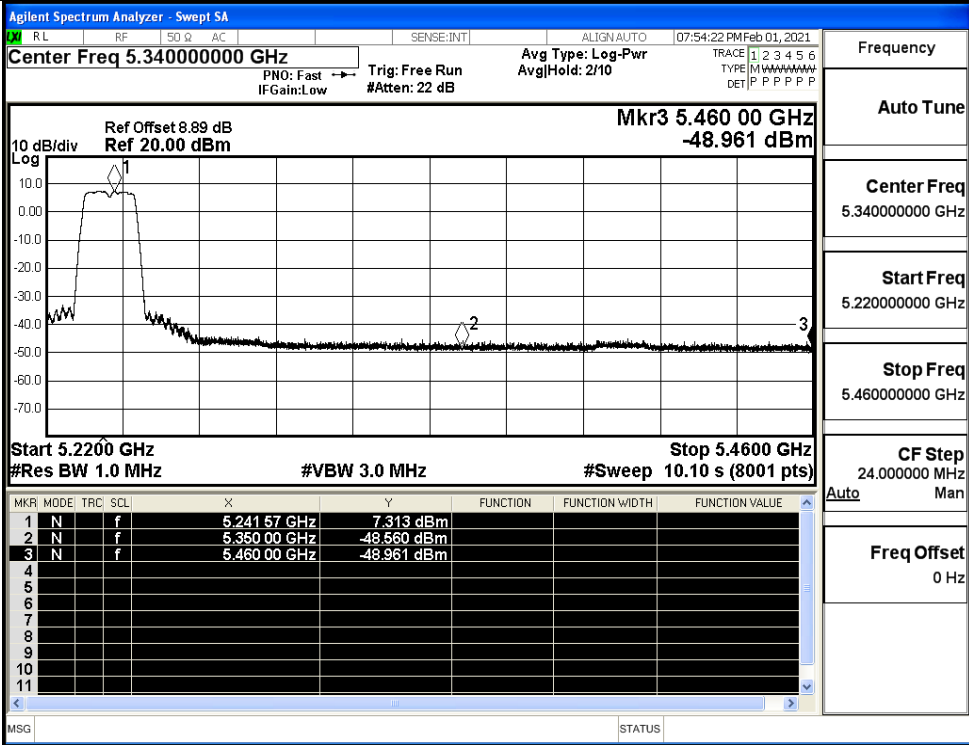


IEEE 802.11a / Channel 36 / 5180MHz / Peak

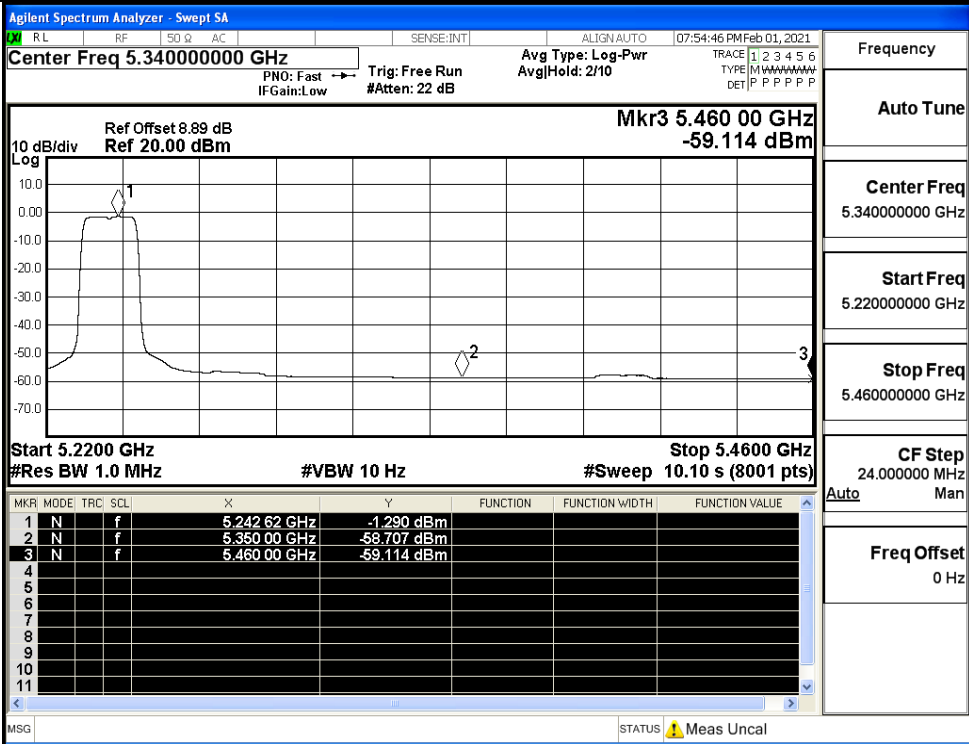


IEEE 802.11a / Channel 36 / 5180MHz / Average

Undesirable Emissions Measurement

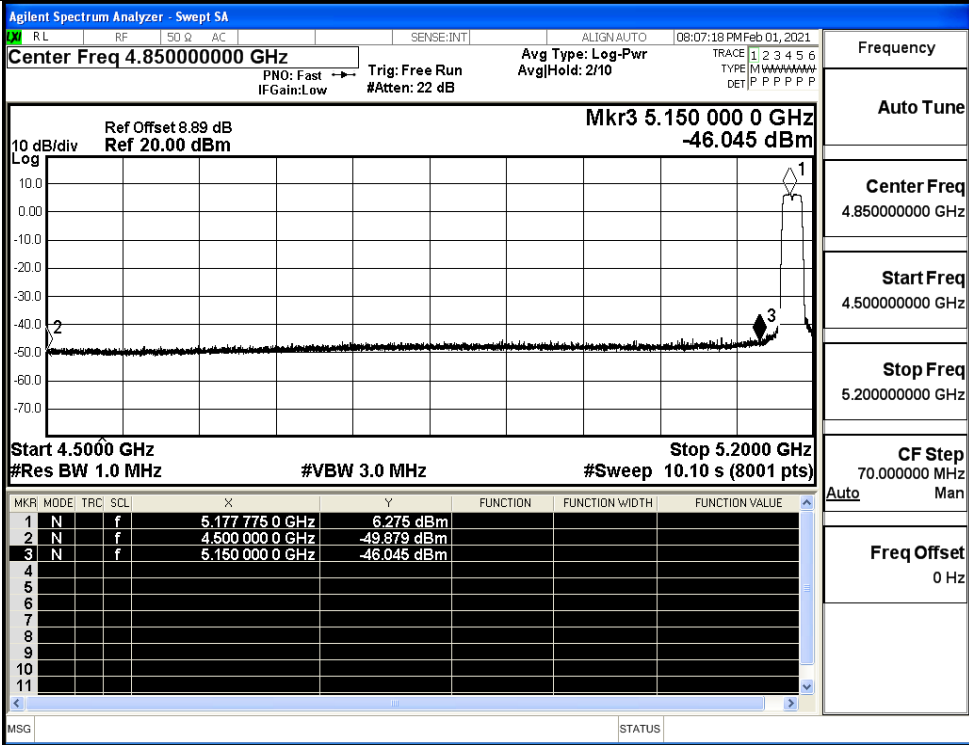


IEEE 802.11a / Channel 48 / 5240MHz / Peak

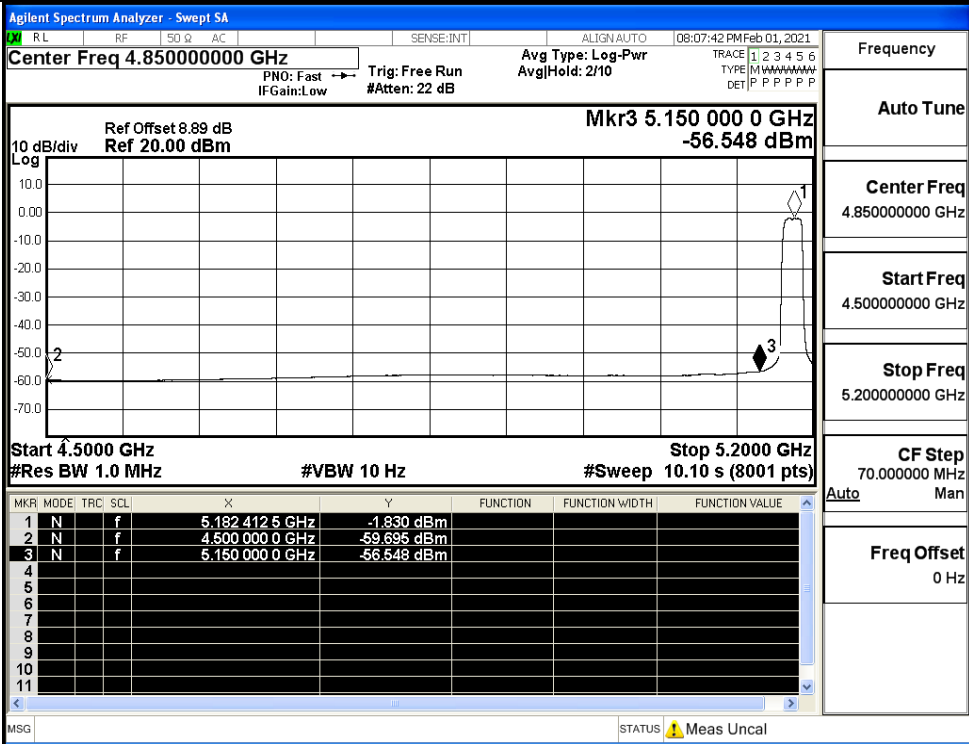


IEEE 802.11a / Channel 48 / 5240MHz / Average

Undesirable Emissions Measurement

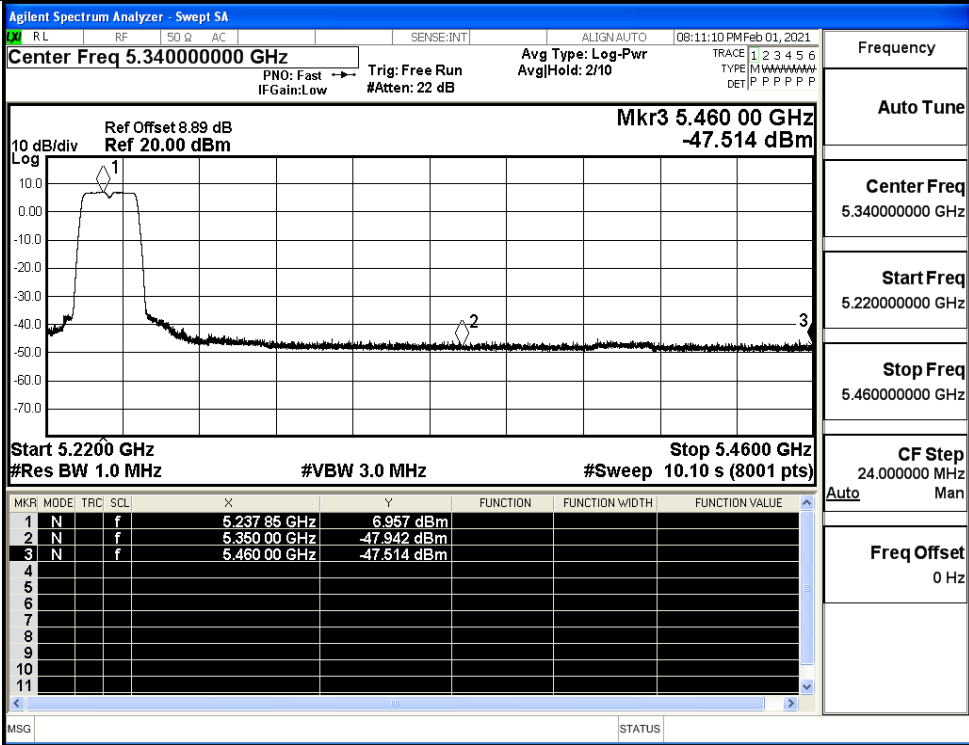


IEEE 802.11n20 / Channel 36 / 5180MHz / Peak

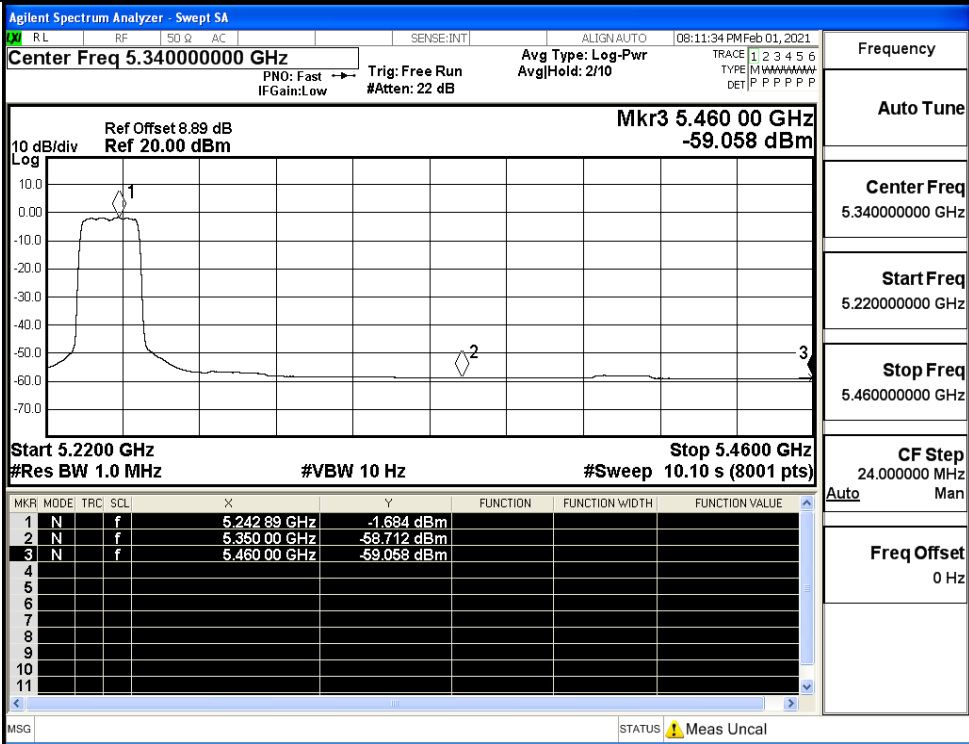


IEEE 802.11n20 / Channel 36 / 5180MHz / Average

Undesirable Emissions Measurement

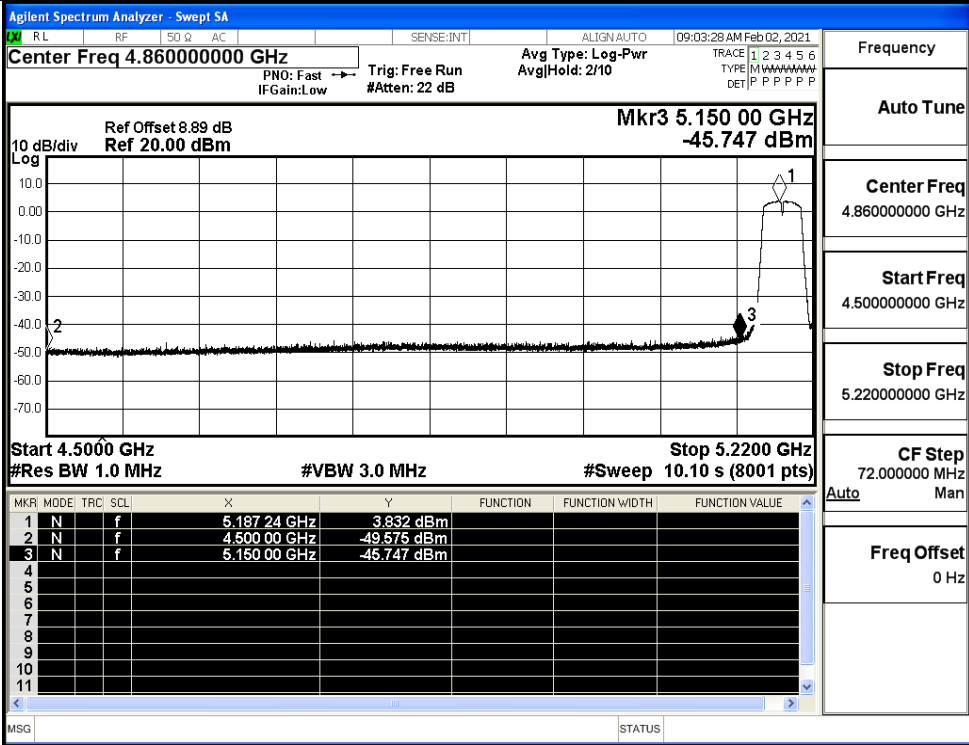


IEEE 802.11n20 / Channel 48 / 5240MHz / Peak

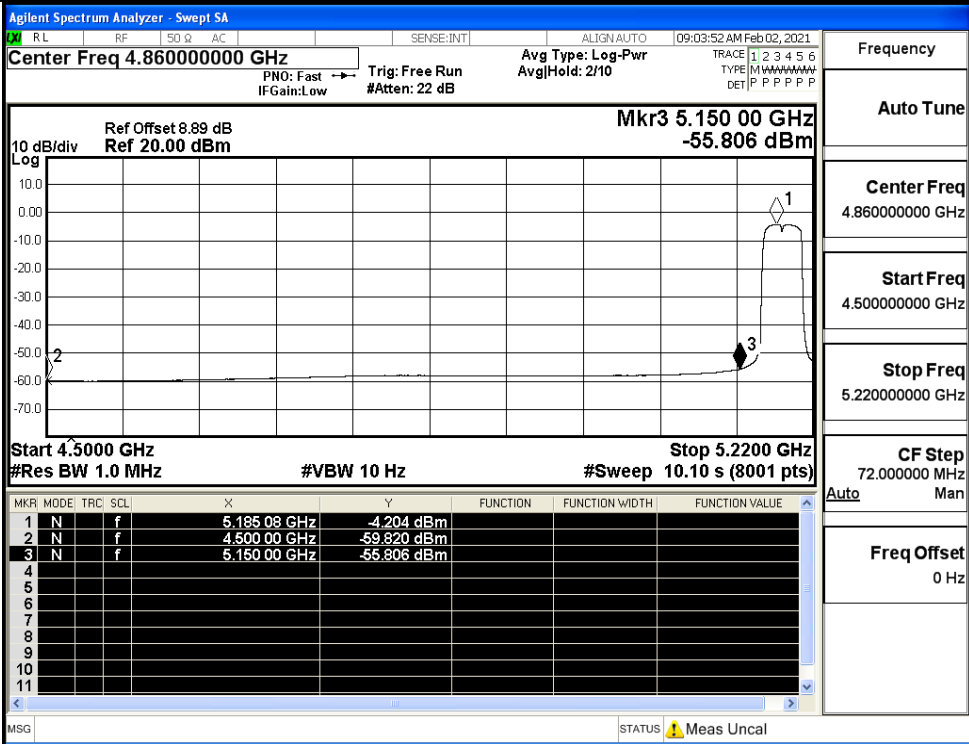


IEEE 802.11n20 / Channel 48 / 5240MHz / Average

Undesirable Emissions Measurement

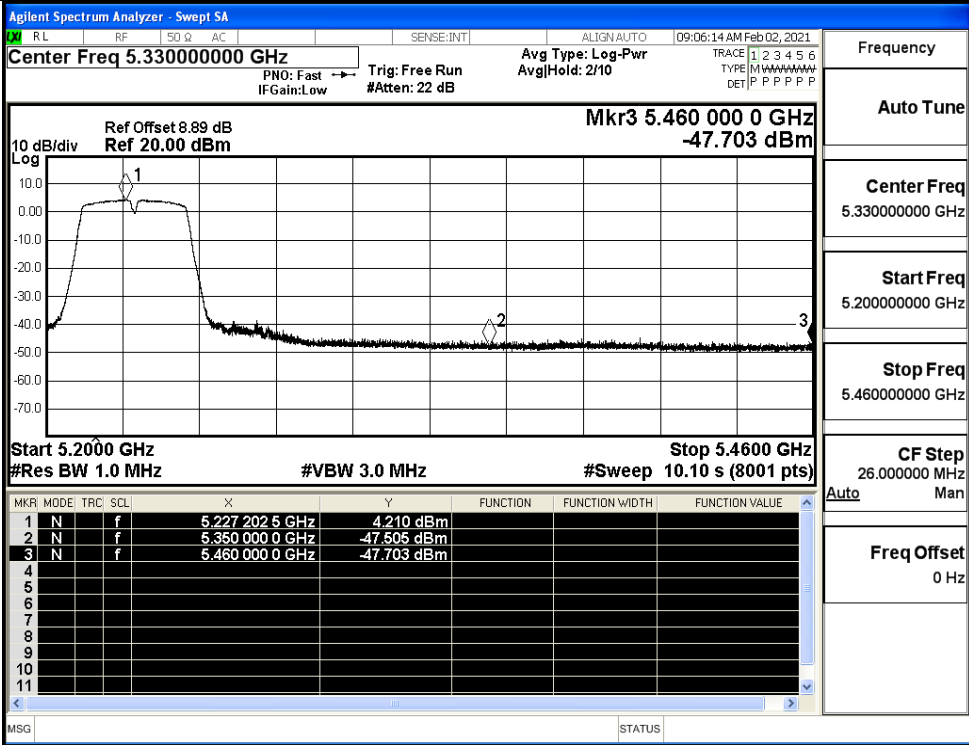


IEEE 802.11n40 / Channel 38 / 5190MHz / Peak

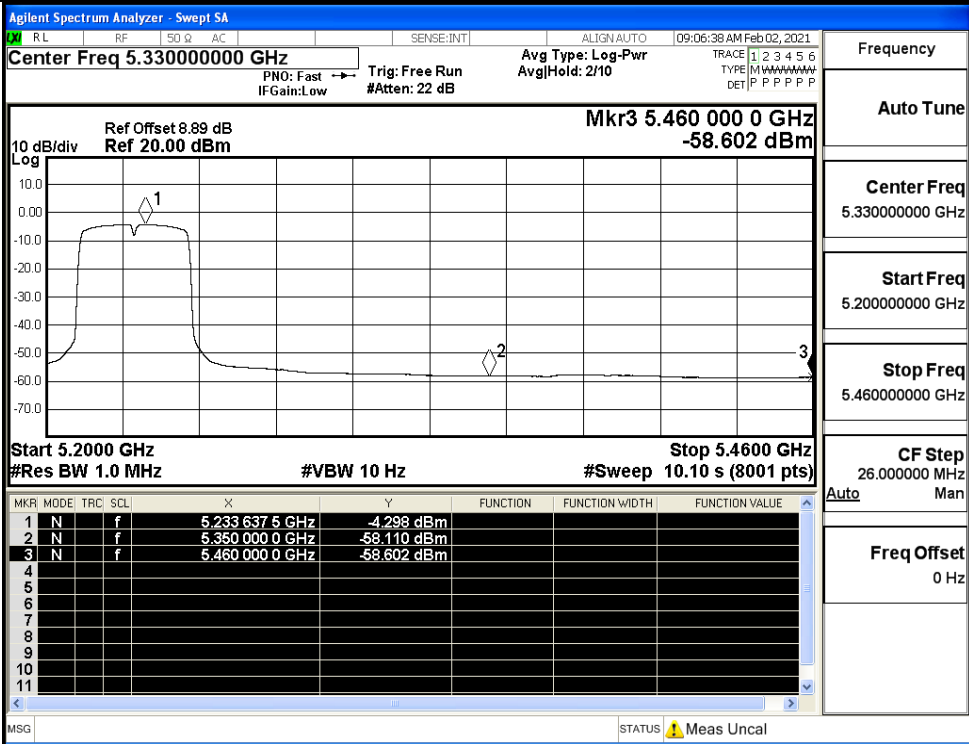


IEEE 802.11n40 / Channel 38 / 5190MHz / Average

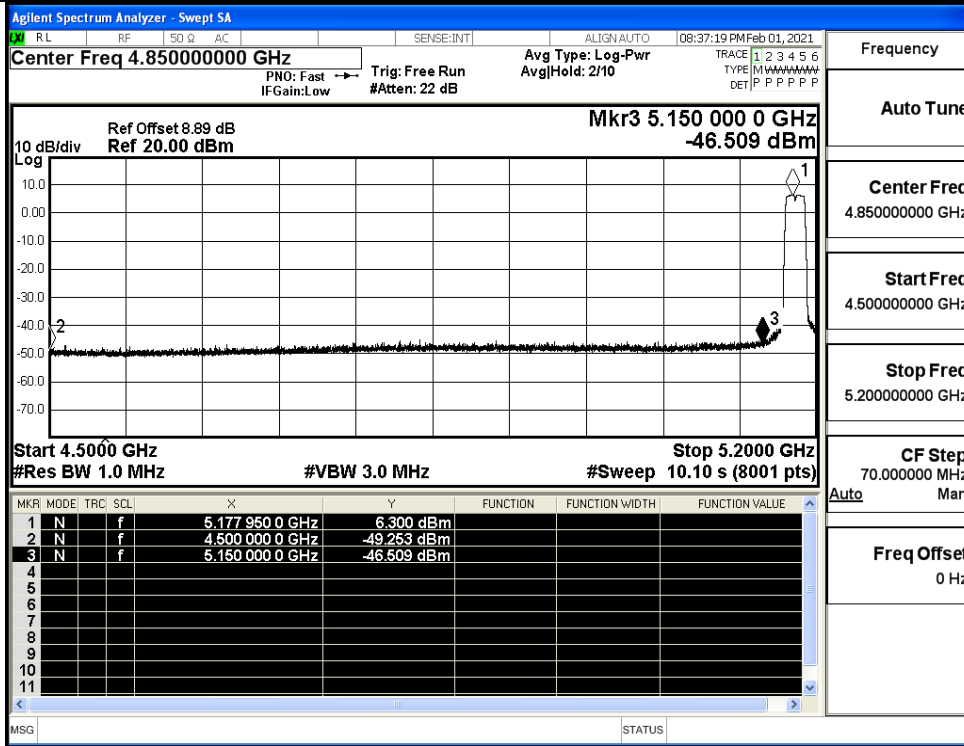
Undesirable Emissions Measurement



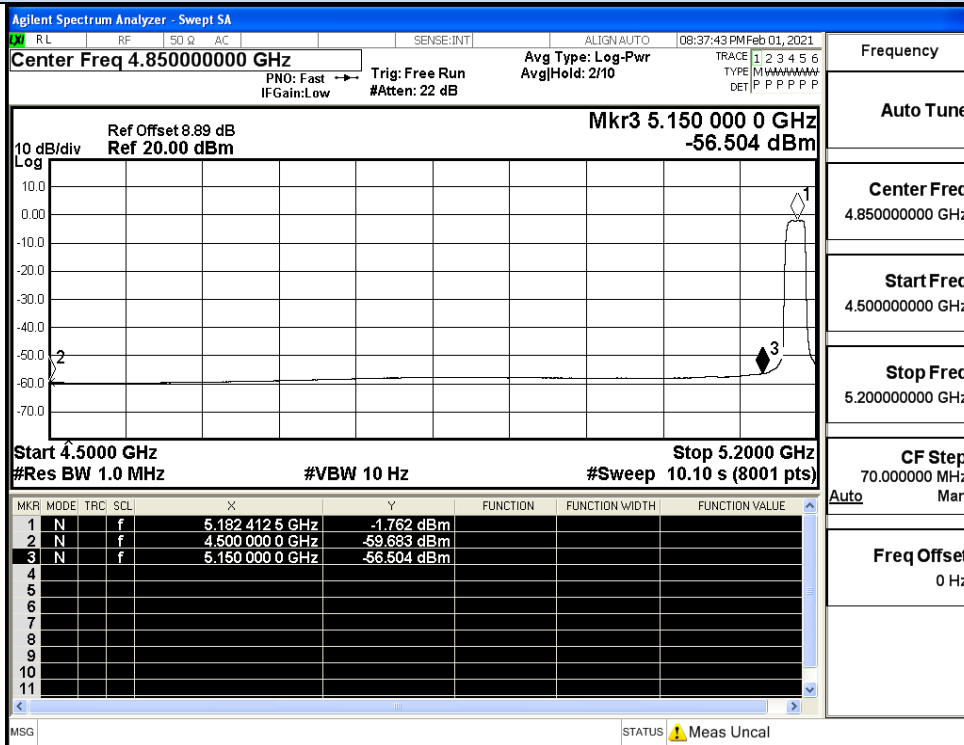
IEEE 802.11n40 / Channel 46 / 5230MHz / Peak



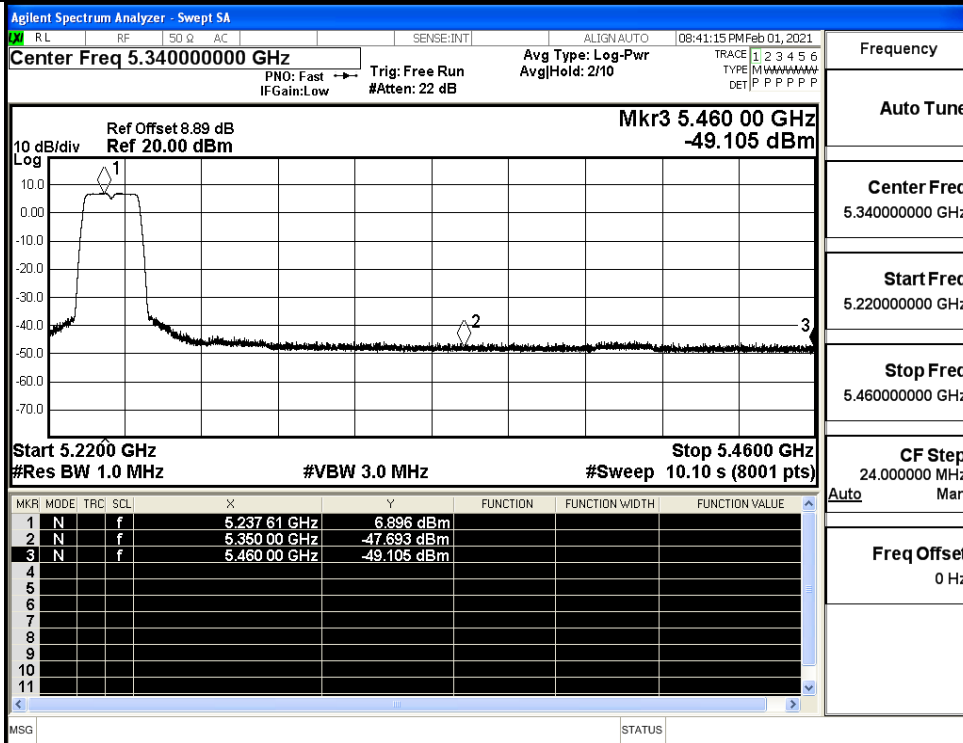
IEEE 802.11n40 / Channel 46 / 5230MHz / Average



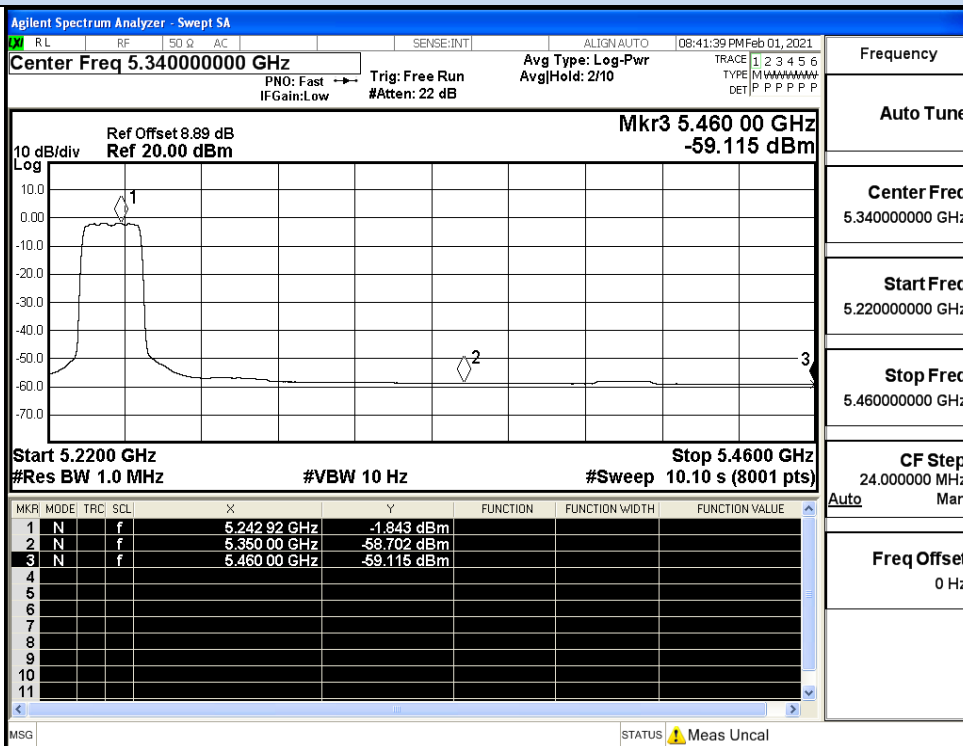
IEEE 802.11ac20 / Channel 36 / 5180MHz / Peak



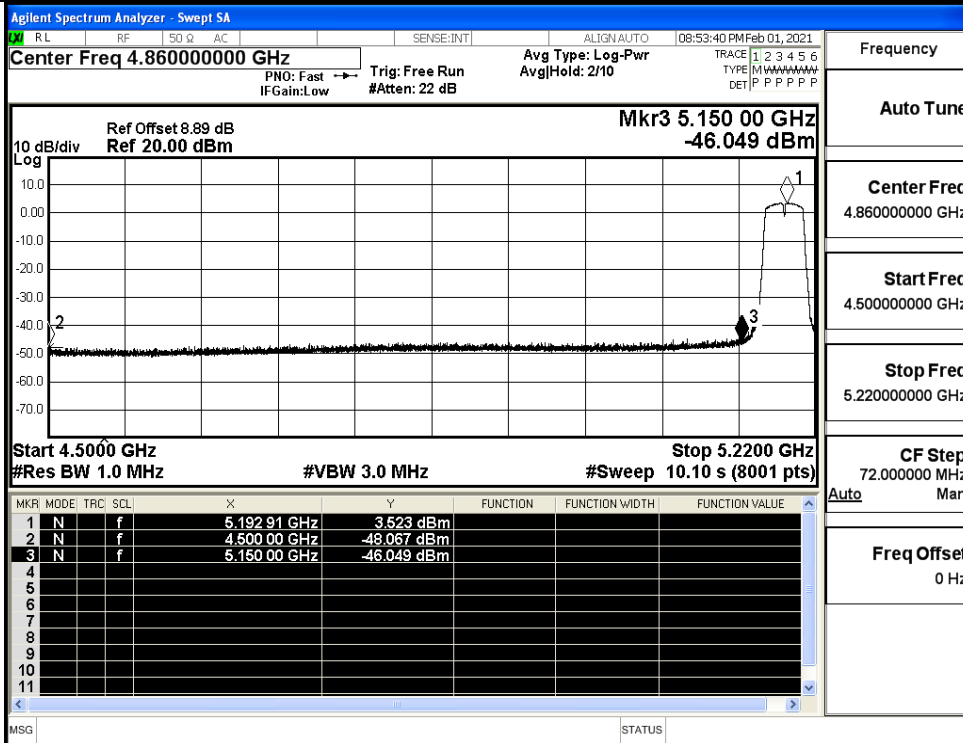
IEEE 802.11ac20 / Channel 36 / 5180MHz / Average



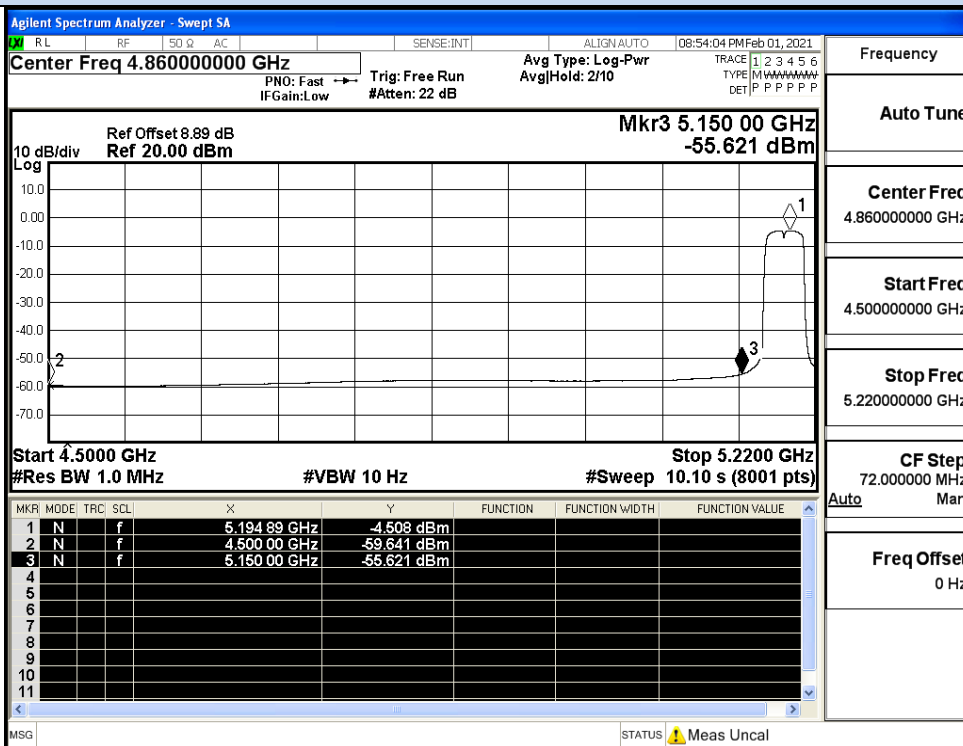
IEEE 802.11ac20 / Channel 48 / 5240MHz / Peak



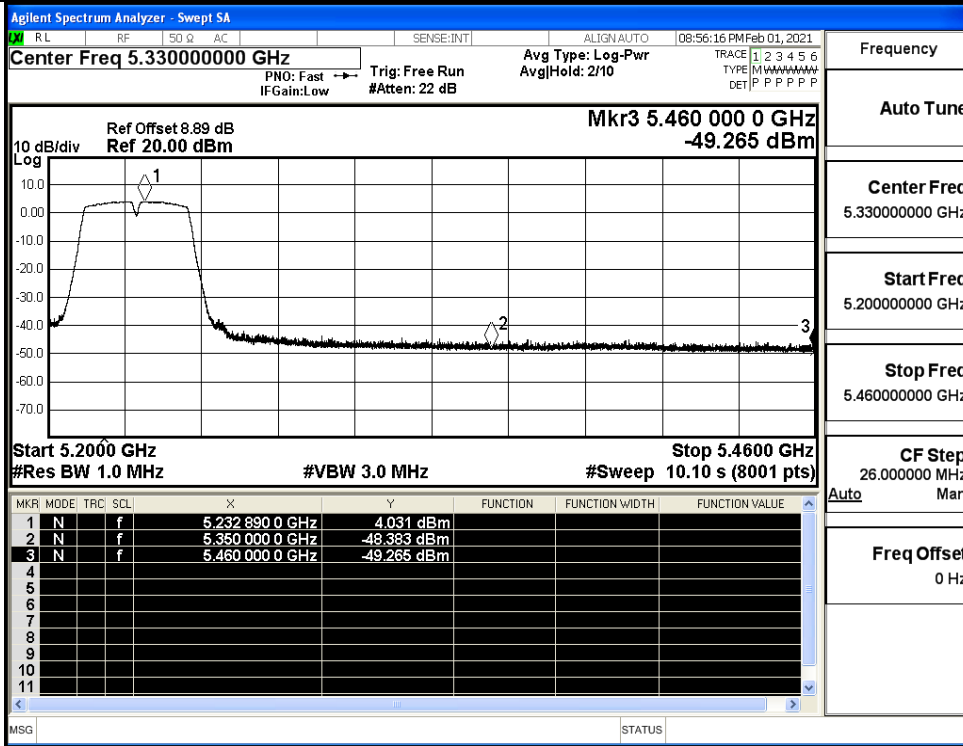
IEEE 802.11ac20 / Channel 48 / 5240MHz / Average



IEEE 802.11ac40 / Channel 38/ 5190MHz / Peak

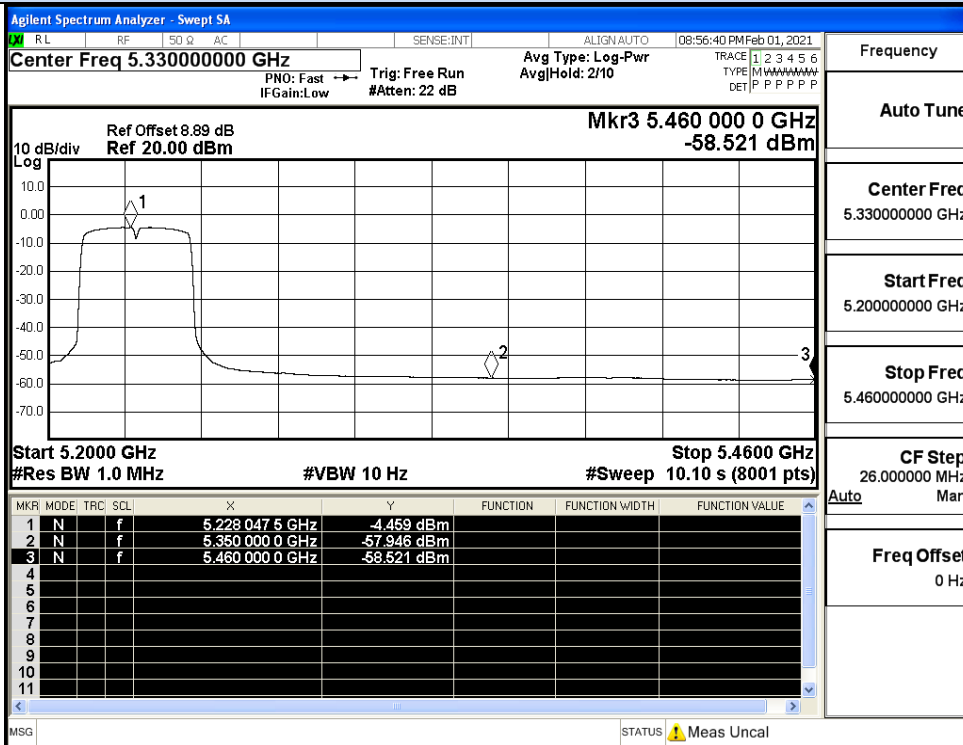


IEEE 802.11ac40 / Channel 38 / 5190MHz / Average



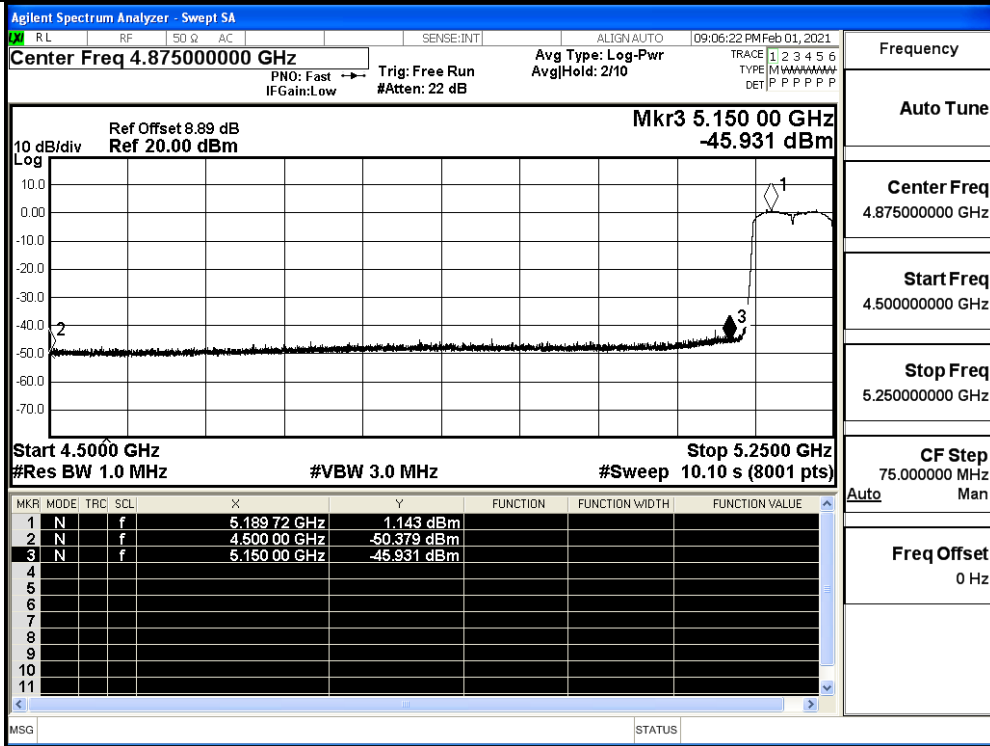
Frequency	
Auto Tune	
Center Freq	5.330000000 GHz
Start Freq	5.200000000 GHz
Stop Freq	5.460000000 GHz
CF Step	26.000000 MHz
Auto	Man
Freq Offset	0 Hz

IEEE 802.11ac40 / Channel 46/ 5230MHz / Peak



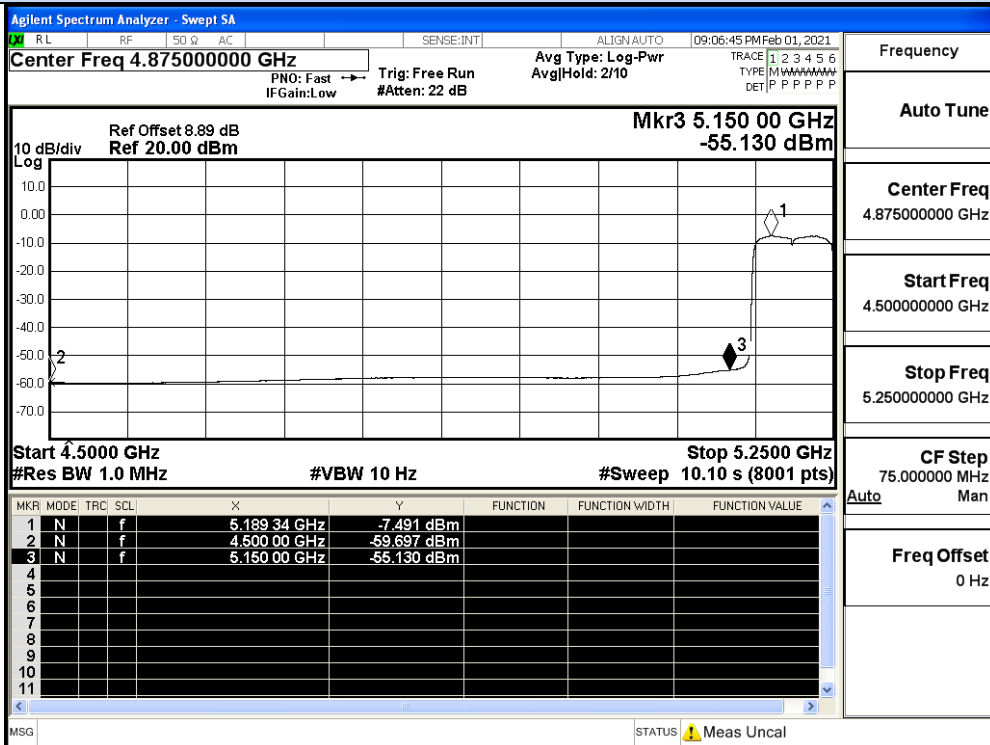
Frequency	
Auto Tune	
Center Freq	5.330000000 GHz
Start Freq	5.200000000 GHz
Stop Freq	5.460000000 GHz
CF Step	26.000000 MHz
Auto	Man
Freq Offset	0 Hz

IEEE 802.11ac40 / Channel 46 / 5230MHz / Average



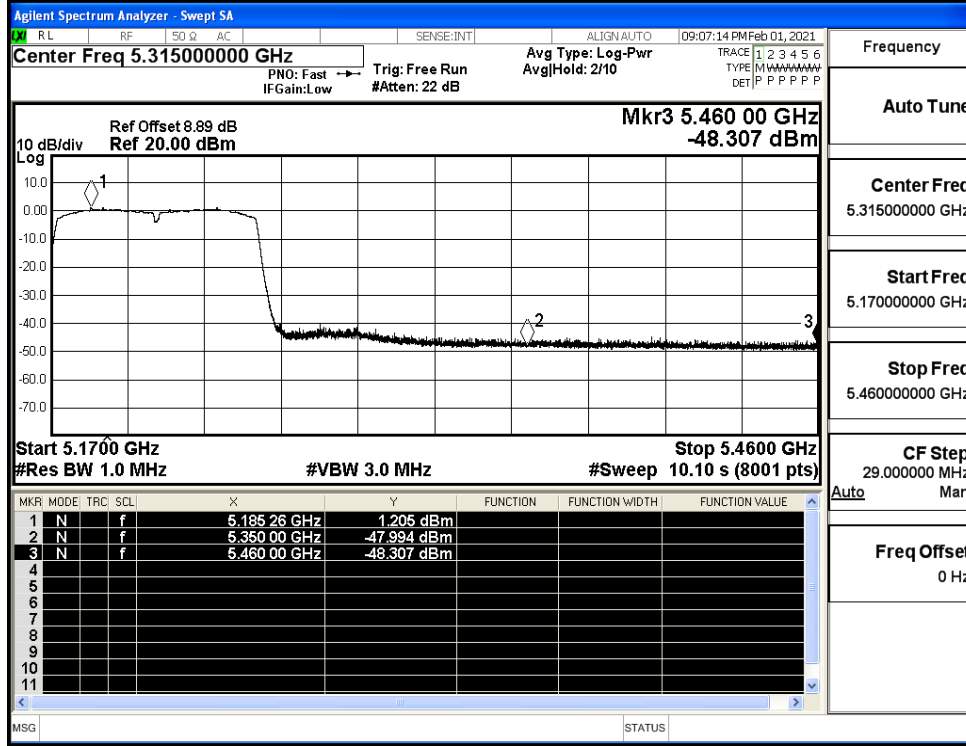
Frequency	
Auto Tune	
Center Freq	4.875000000 GHz
Start Freq	4.500000000 GHz
Stop Freq	5.250000000 GHz
CF Step	75.000000 MHz
Auto	Man
Freq Offset	0 Hz

IEEE 802.11ac80 / Channel 42 / 5210MHz / Peak

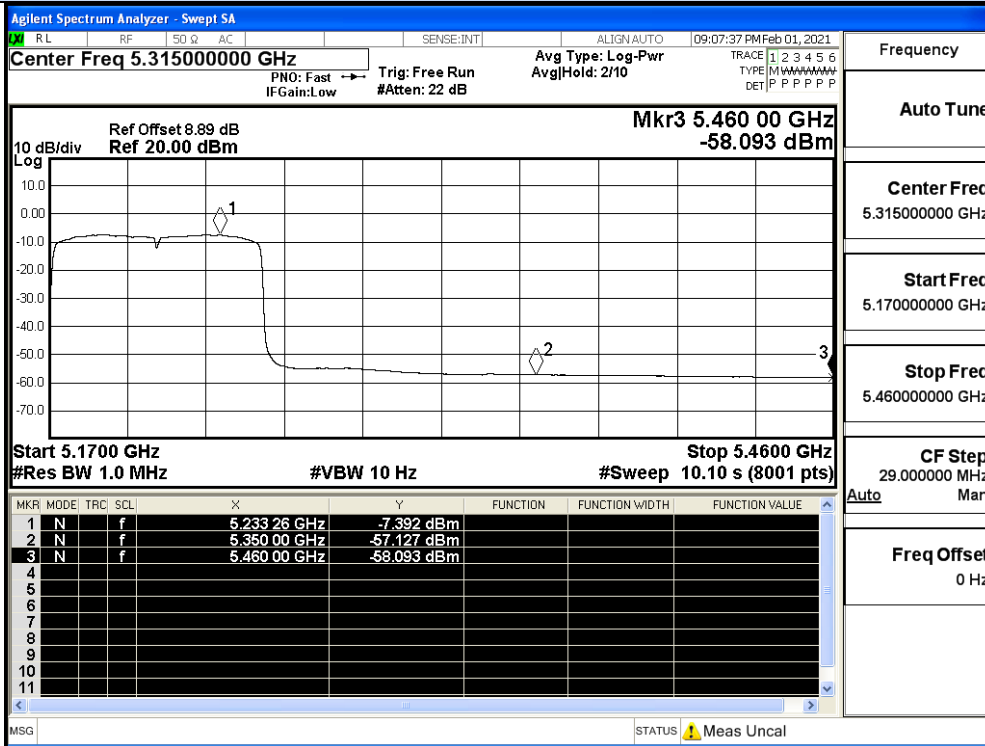


Frequency	
Auto Tune	
Center Freq	4.875000000 GHz
Start Freq	4.500000000 GHz
Stop Freq	5.250000000 GHz
CF Step	75.000000 MHz
Auto	Man
Freq Offset	0 Hz

IEEE 802.11ac80 / Channel 42 / 5210MHz / Average



IEEE 802.11ac80 / Channel 42 / 5210MHz / Peak



IEEE 802.11ac80 / Channel 42 / 5210MHz / Average