

## Appendix D

### RF Test Data for 5.2G WLAN (Conducted Measurement)

Product Name: I1012

Trade Mark: Hyundai

Test Model: 10WWA464B

#### Environmental Conditions

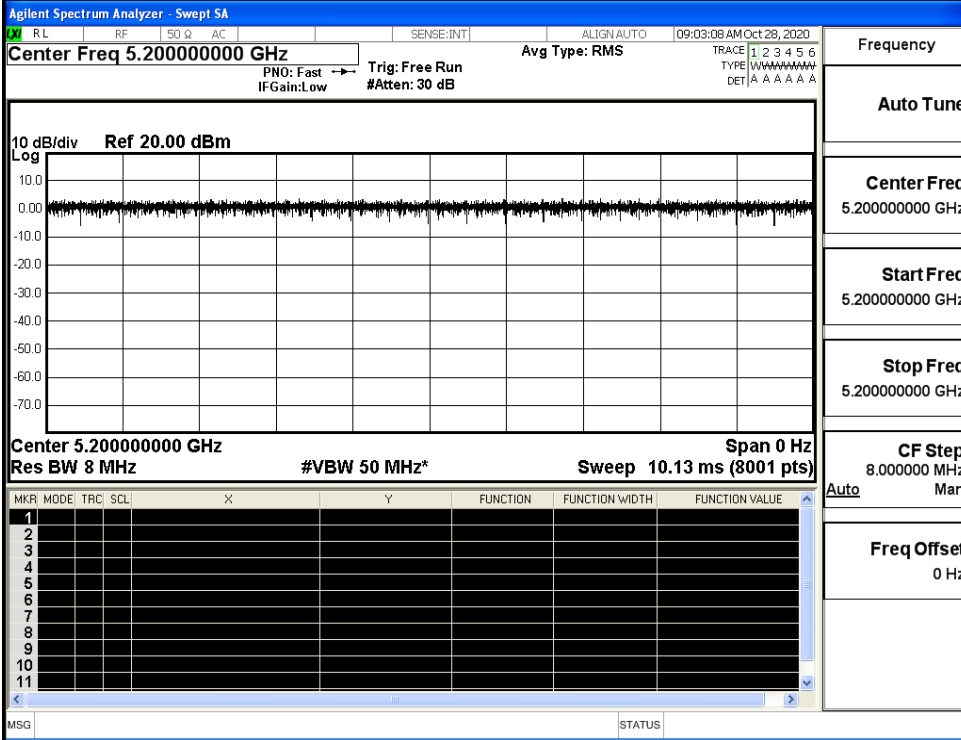
Temperature:	23.4 ° C
Relative Humidity:	53.7%
ATM Pressure:	100.0 kPa
Test Engineer:	Kay Hu
Supervised by:	Li Huan

#### D.1 Duty Cycle

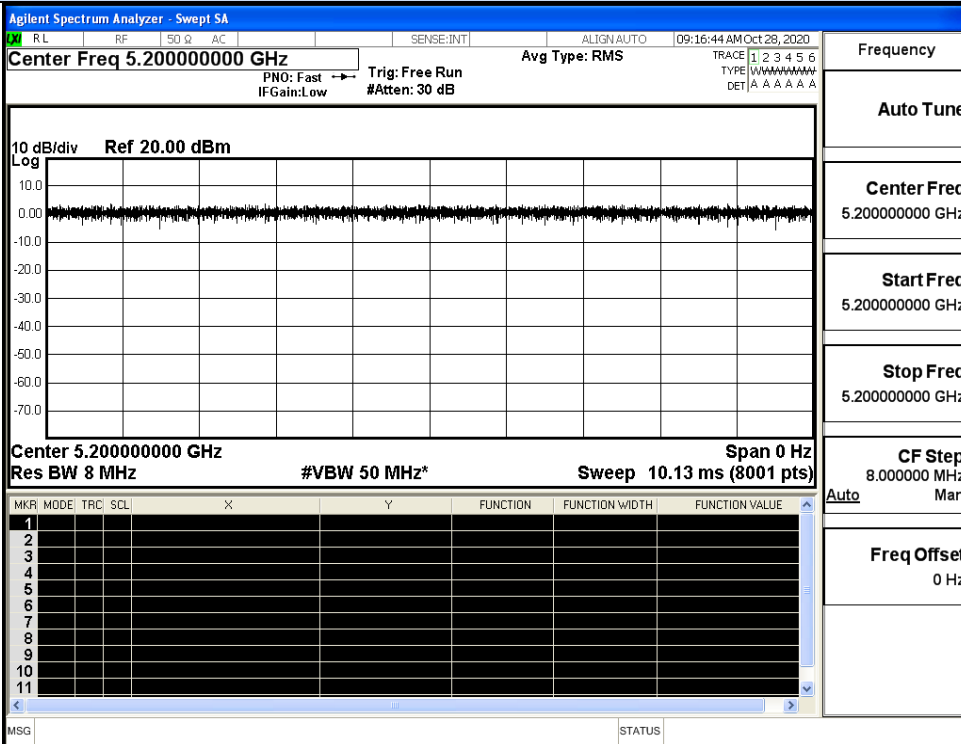
##### ANT 0

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

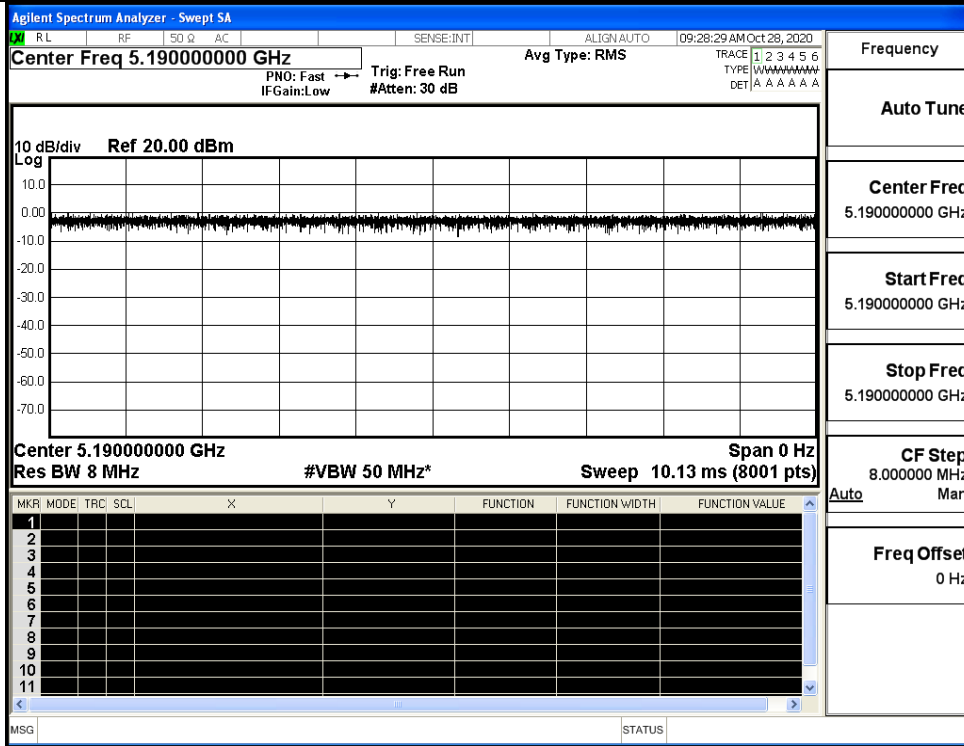
On Time and Duty Cycle



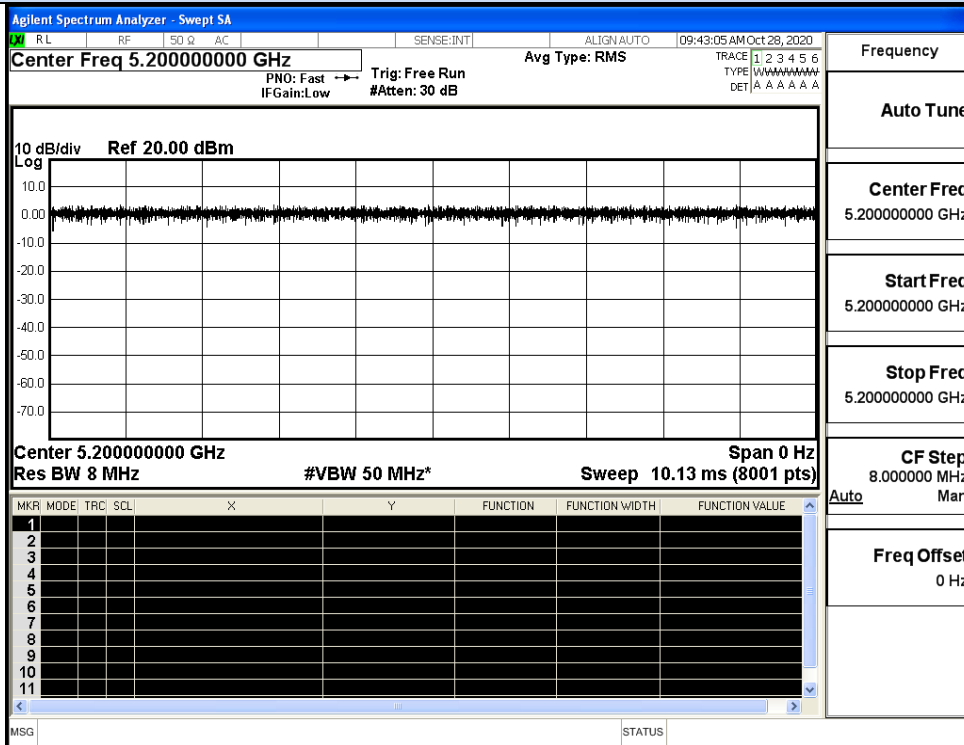
IEEE 802.11a



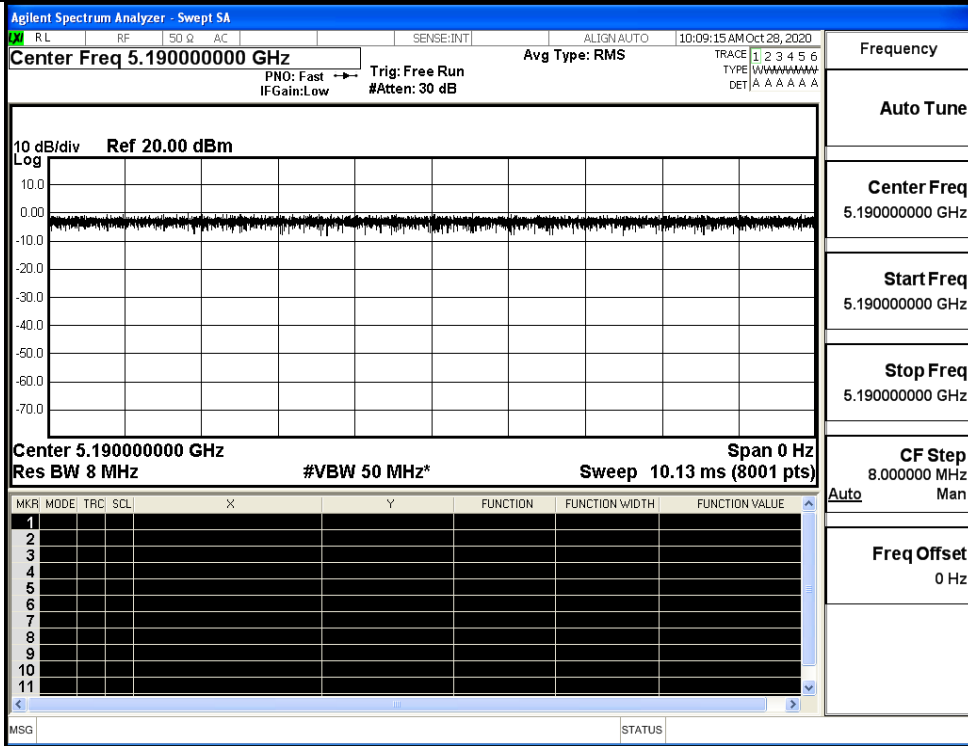
IEEE 802.11n HT20



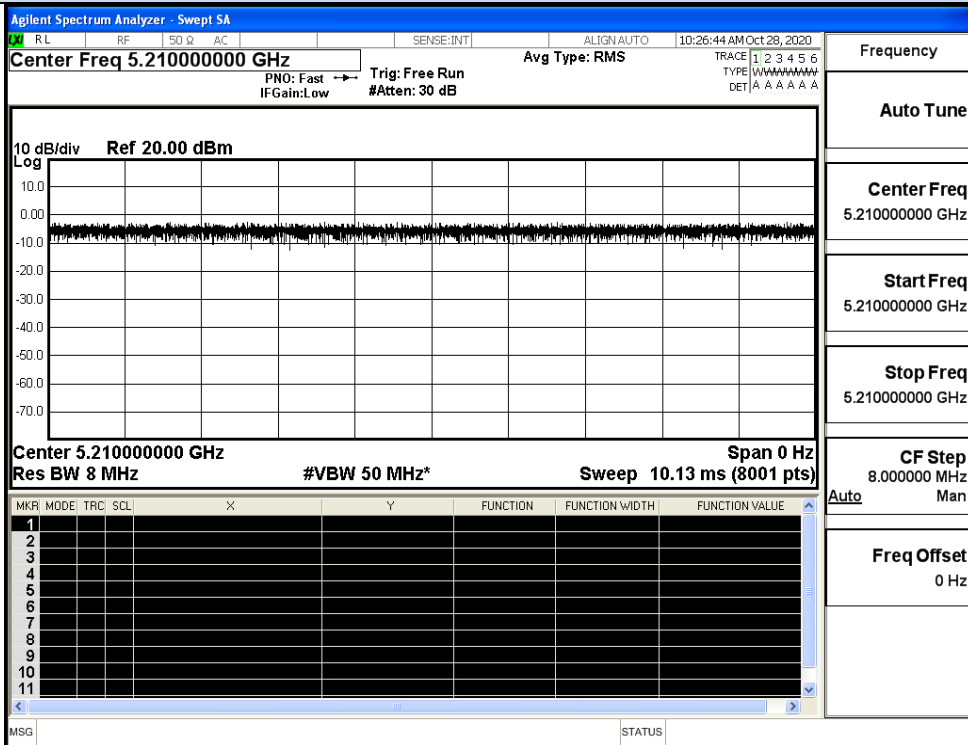
IEEE 802.11n HT40



IEEE 802.11AC20



IEEE 802.11 AC40

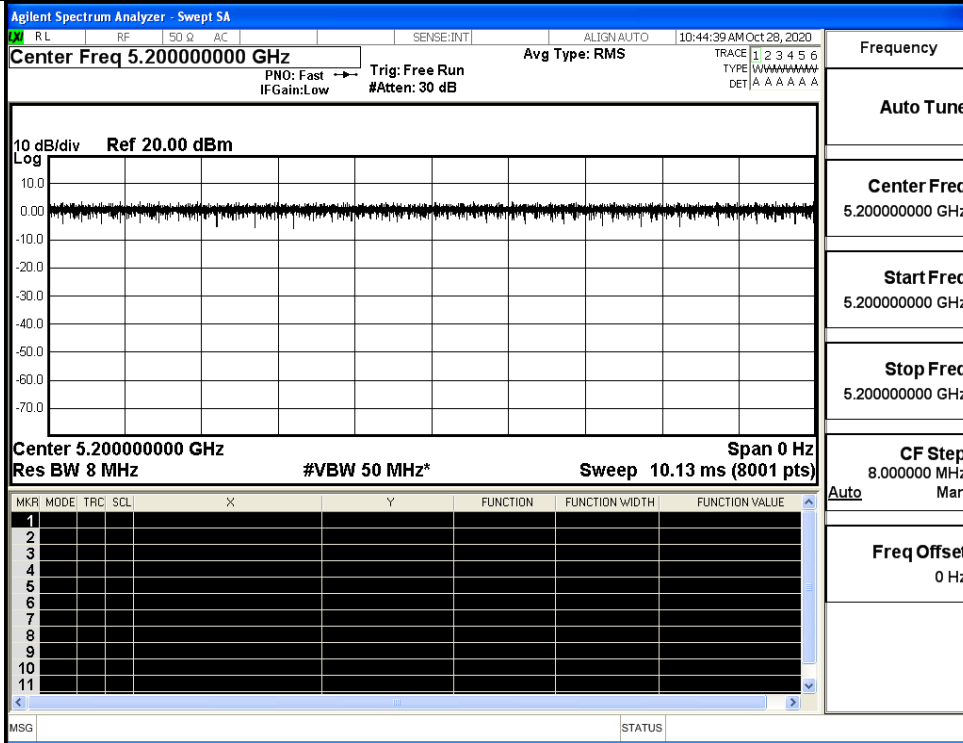


IEEE 802.11 AC80

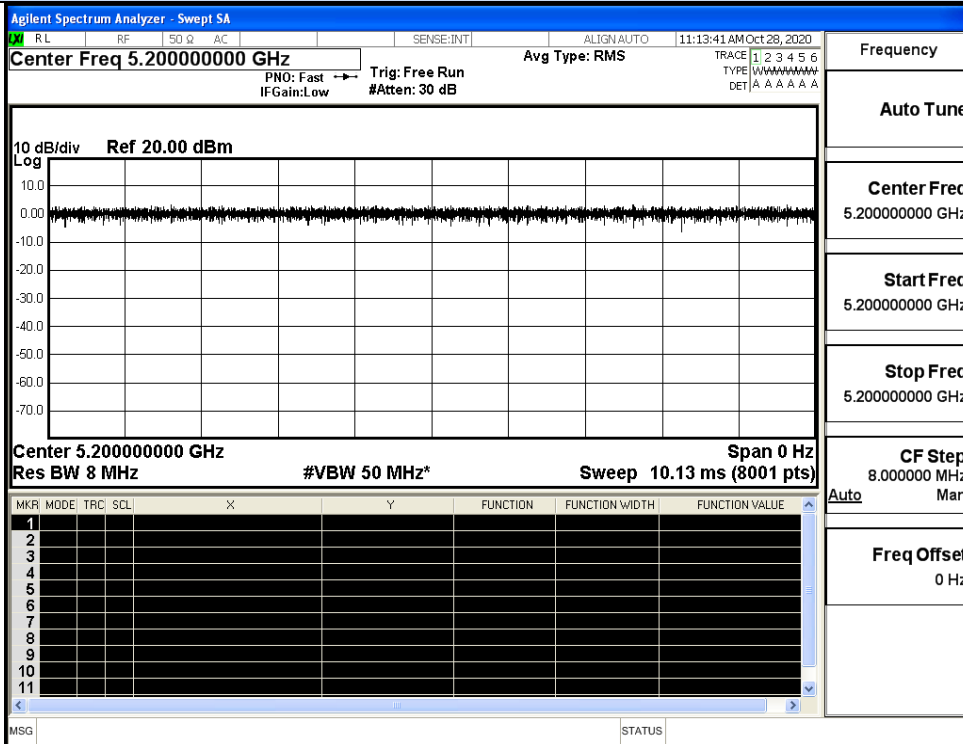
**ANT 1**

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

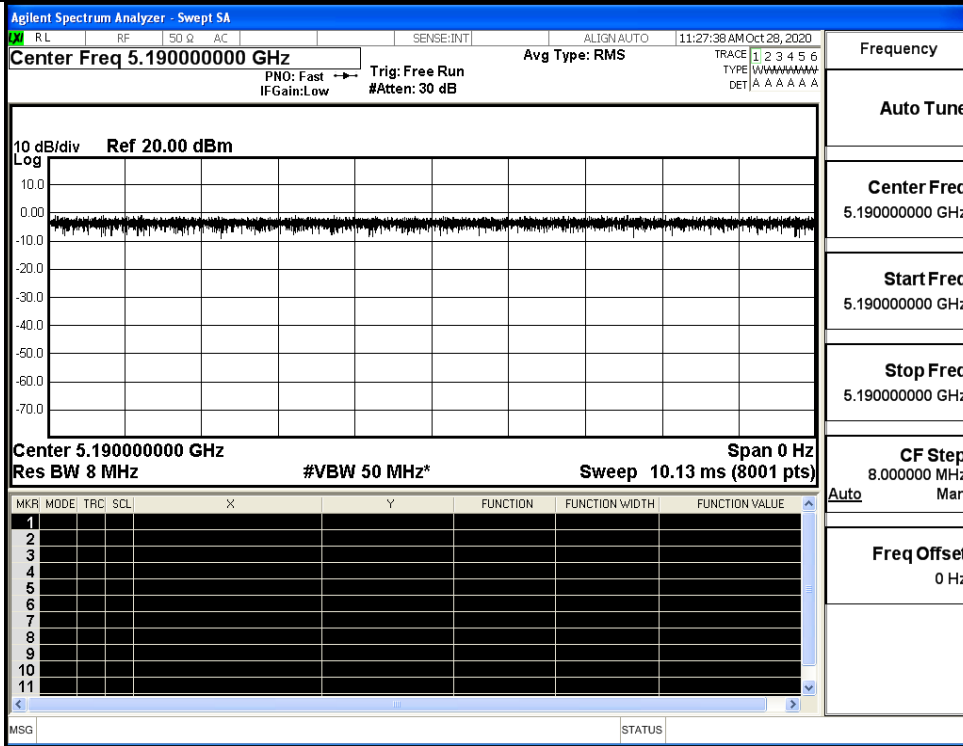
On Time and Duty Cycle



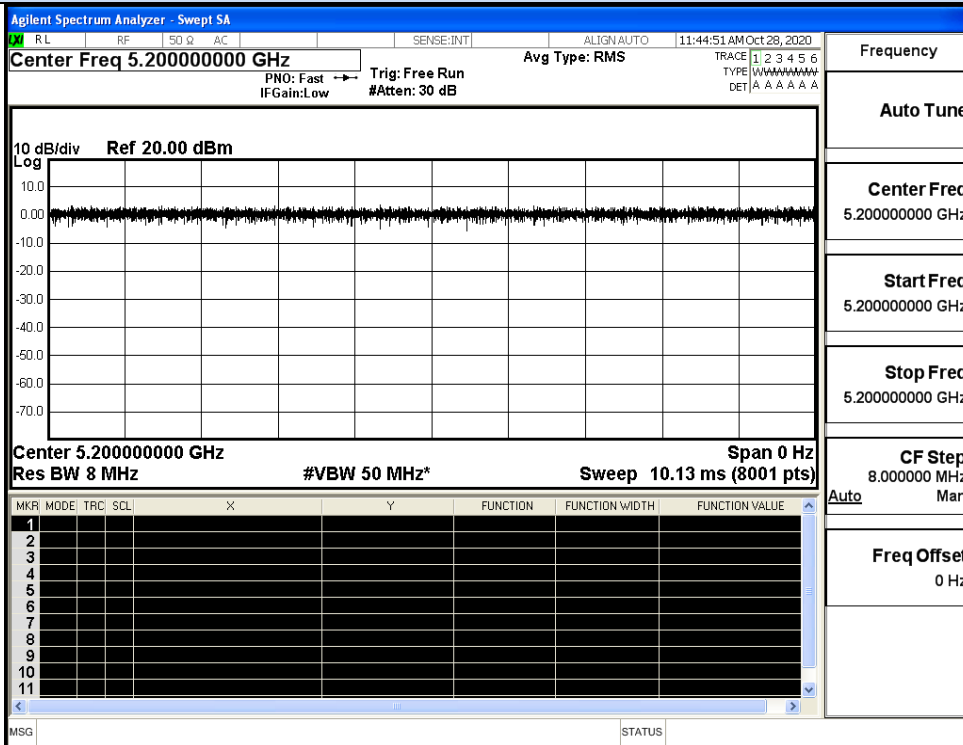
IEEE 802.11a



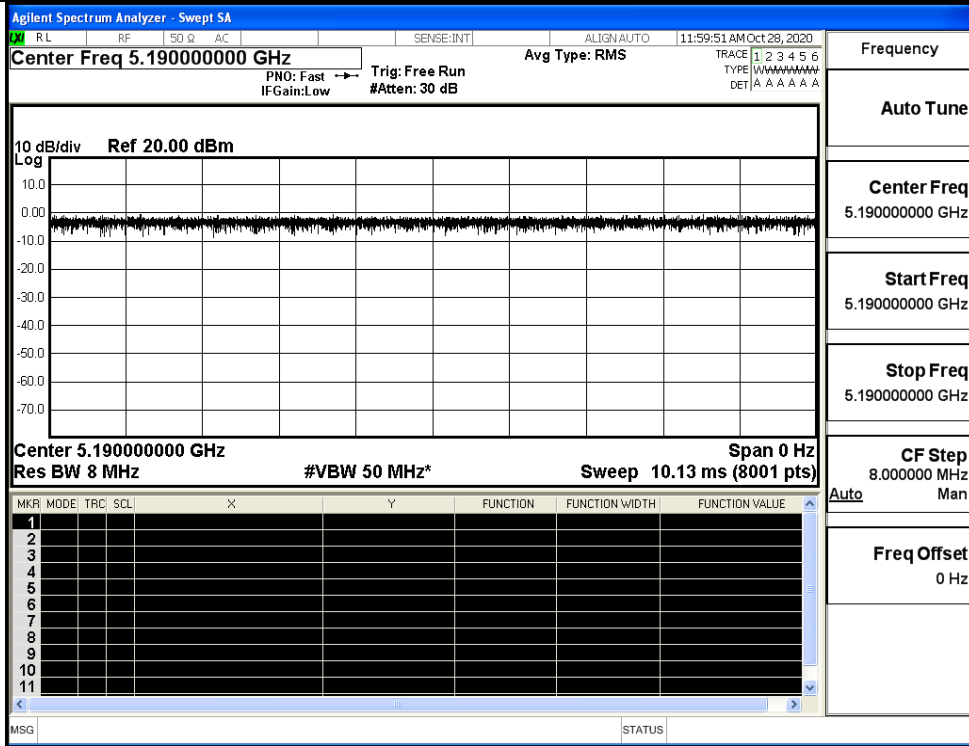
IEEE 802.11n HT20



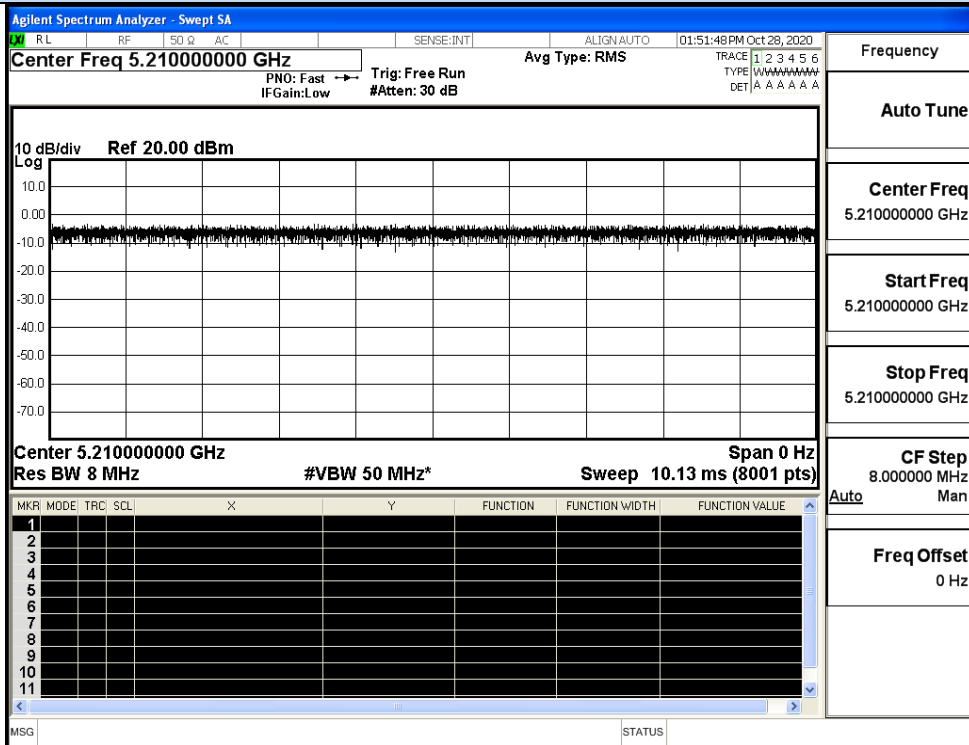
IEEE 802.11n HT40



IEEE 802.11AC20



IEEE 802.11 AC40



IEEE 802.11AC80



**D.2 Maximum Conduct Output Power****ANT 0**

Test Mode	Channel	Frequency (MHz)	AVG Conducted Power (dBm)	Duty Cycle Factor( dB)	Report Conducted Power(dBm)	Limit (dBm)	Verdict
11A	36	5180	6.13	0	6.13	24	Pass
	40	5200	5.76	0	5.76		Pass
	48	5240	5.85	0	5.85		Pass
11N20 SISO	36	5180	5.55	0	5.55	24	Pass
	40	5200	5.56	0	5.56		Pass
	48	5240	5.66	0	5.66		Pass
11N40 SISO	38	5190	5.15	0	5.15	24	Pass
	46	5230	5.31	0	5.31		Pass
11AC20 SISO	36	5180	5.22	0	5.22	24	Pass
	40	5200	5.24	0	5.24		Pass
	48	5240	5.91	0	5.91		Pass
11AC40 SISO	38	5190	5.74	0	5.74	24	Pass
	46	5230	5.65	0	5.65		Pass
11AC80 SISO	42	5210	5.43	0	5.43	24	Pass

**ANT 1**

Test Mode	Channel	Frequency (MHz)	AVG Conducted Power (dBm)	Duty Cycle Factor( dB)	Report Conducted Power(dBm)	Limit (dBm)	Verdict
11A	36	5180	5.58	0	5.58	24	Pass
	40	5200	6.02	0	6.02		Pass
	48	5240	6.08	0	6.08		Pass
11N20 SISO	36	5180	5.87	0	5.87	24	Pass
	40	5200	5.30	0	5.30		Pass
	48	5240	5.34	0	5.34		Pass
11N40 SISO	38	5190	5.25	0	5.25	24	Pass
	46	5230	5.19	0	5.19		Pass
11AC20 SISO	36	5180	5.18	0	5.18	24	Pass
	40	5200	5.29	0	5.29		Pass
	48	5240	5.13	0	5.13		Pass
11AC40 SISO	38	5190	5.18	0	5.18	24	Pass
	46	5230	5.05	0	5.05		Pass
11AC80 SISO	42	5210	5.42	0	5.42	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	5.55	5.87	8.72	24
	40	5200	5.56	5.30	8.44	
	48	5240	5.66	5.34	8.51	
11N40	38	5190	5.15	5.25	8.21	24
	46	5230	5.31	5.19	8.26	
11AC20	36	5180	5.22	5.18	8.21	24
	40	5200	5.24	5.29	8.28	
	48	5240	5.91	5.13	8.55	
11AC40	38	5190	5.74	5.18	8.48	24
	46	5230	5.65	5.05	8.37	
11AC80	42	5210	5.43	5.42	8.44	24

### D.3 Power Spectral Density

#### ANT 0

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	-2.55	0	-2.55	11	Pass
	40	5200	-2.56	0	-2.56		Pass
	48	5240	-2.73	0	-2.73		Pass
11N20 SISO	36	5180	-2.86	0	-2.86	11	Pass
	40	5200	-2.79	0	-2.79		Pass
	48	5240	-2.82	0	-2.82		Pass
11N40 SISO	38	5190	-6.12	0	-6.12	11	Pass
	46	5230	-5.94	0	-5.94		Pass
11AC20 SISO	36	5180	-3.09	0	-3.09	11	Pass
	40	5200	-2.63	0	-2.63		Pass
	48	5240	-2.73	0	-2.73		Pass
11AC40 SISO	38	5190	-6.46	0	-6.46	11	Pass
	46	5230	-5.09	0	-5.09		Pass
11AC80 SISO	42	5210	-8.61	0	-8.61	11	Pass

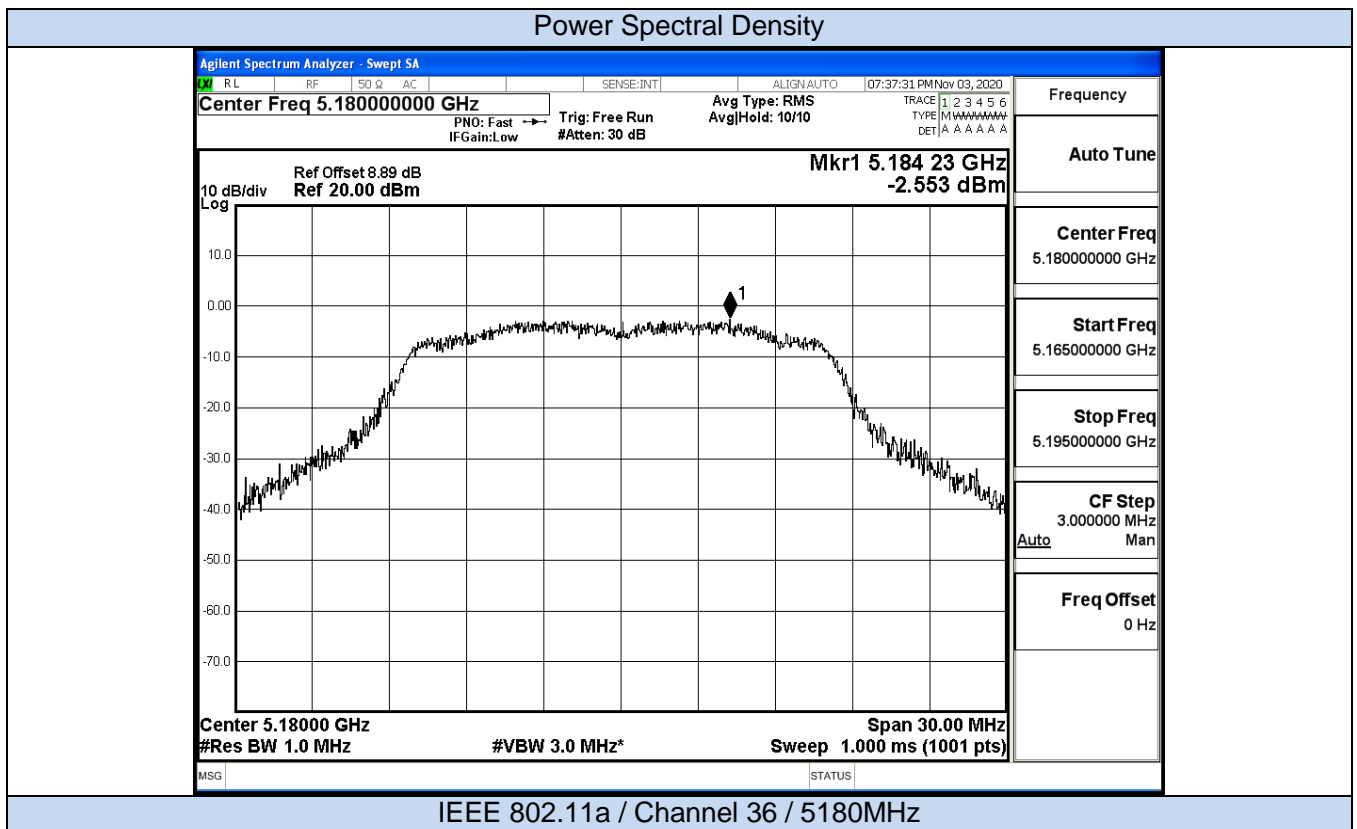
#### ANT 1

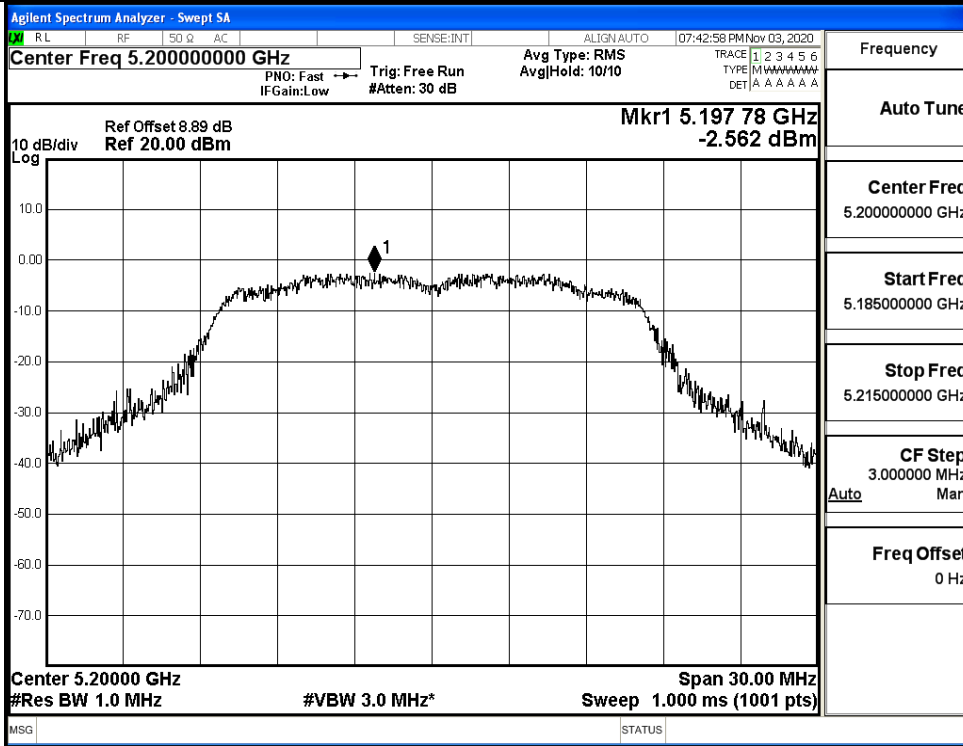
Test Mode	Channel	Frequency (MHz)	Power Density (dBm/MHz)	Duty Cycle Factor(dB)	Report Power Density (dBm/MHz)	Limit (dBm/MHz)	Verdict
11A	36	5180	-2.17	0	-2.17	11	Pass
	40	5200	-2.32	0	-2.32		Pass
	48	5240	-2.60	0	-2.60		Pass
11N20 SISO	36	5180	-2.54	0	-2.54	11	Pass
	40	5200	-2.45	0	-2.45		Pass
	48	5240	-2.65	0	-2.65		Pass
11N40 SISO	38	5190	-5.55	0	-5.55	11	Pass
	46	5230	-5.23	0	-5.23		Pass
11AC20 SISO	36	5180	-2.54	0	-2.54	11	Pass
	40	5200	-2.87	0	-2.87		Pass
	48	5240	-2.34	0	-2.34		Pass
11AC40 SISO	38	5190	-5.67	0	-5.67	11	Pass
	46	5230	-5.48	0	-5.48		Pass
11AC80 SISO	42	5210	-8.47	0	-8.47	11	Pass

### Combined Ant0 and Ant1

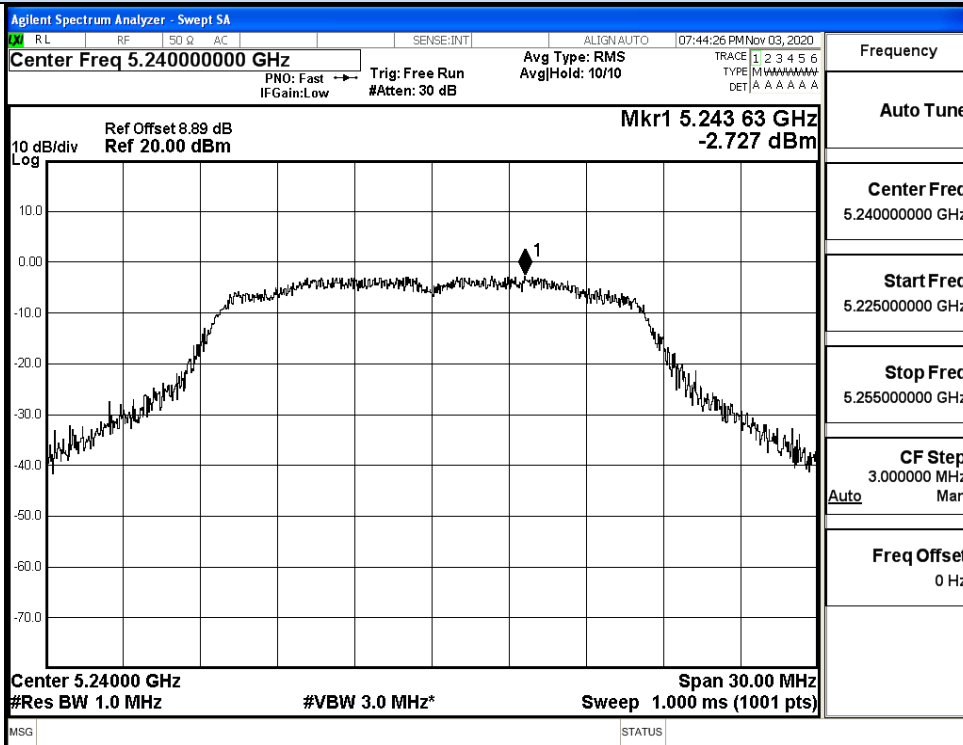
Test Mode	Channel	Frequency (MHz)	Report Power Density (dBm/MHz)			Limit (dBm/MHz)
			Ant_0	Ant_1	Sum	
11N20	36	5180	-2.86	-2.54	0.31	11
	40	5200	-2.79	-2.45	0.39	
	48	5240	-2.82	-2.65	0.28	
11N40	38	5190	-6.12	-5.55	-2.82	11
	46	5230	-5.94	-5.23	-2.56	
11AC20	36	5180	-3.09	-2.54	0.20	11
	40	5200	-2.63	-2.87	0.26	
	48	5240	-2.73	-2.34	0.48	
11AC40	38	5190	-6.46	-5.67	-3.04	11
	46	5230	-5.09	-5.48	-2.27	
11AC80	42	5210	-8.61	-8.47	-5.53	11

### ANT 0



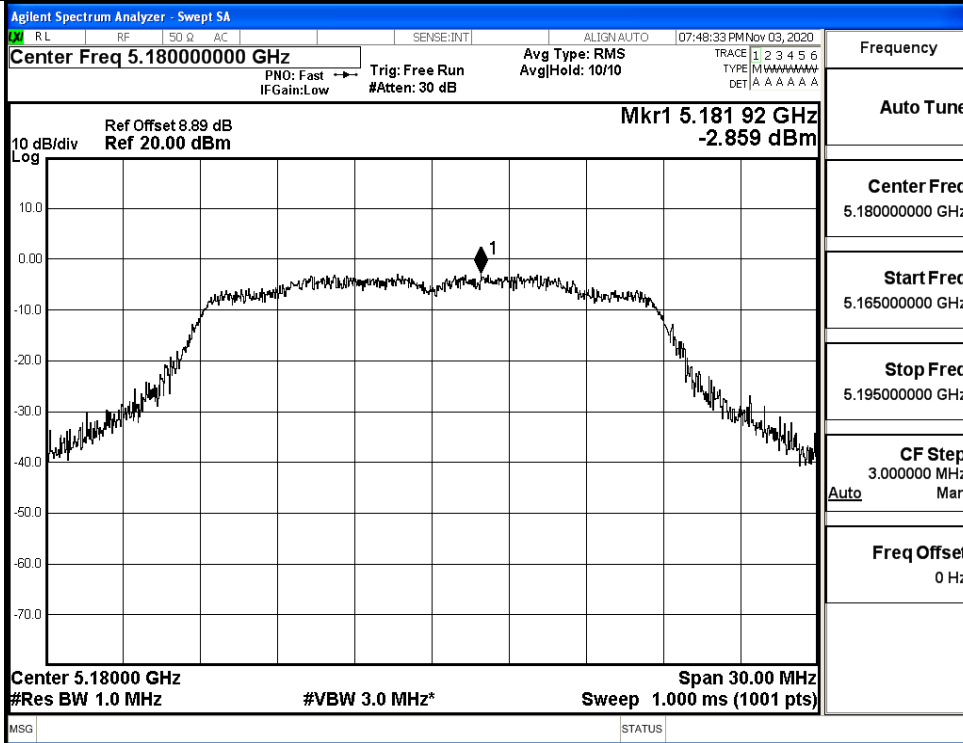


IEEE 802.11na / Channel 40 / 5200MHz

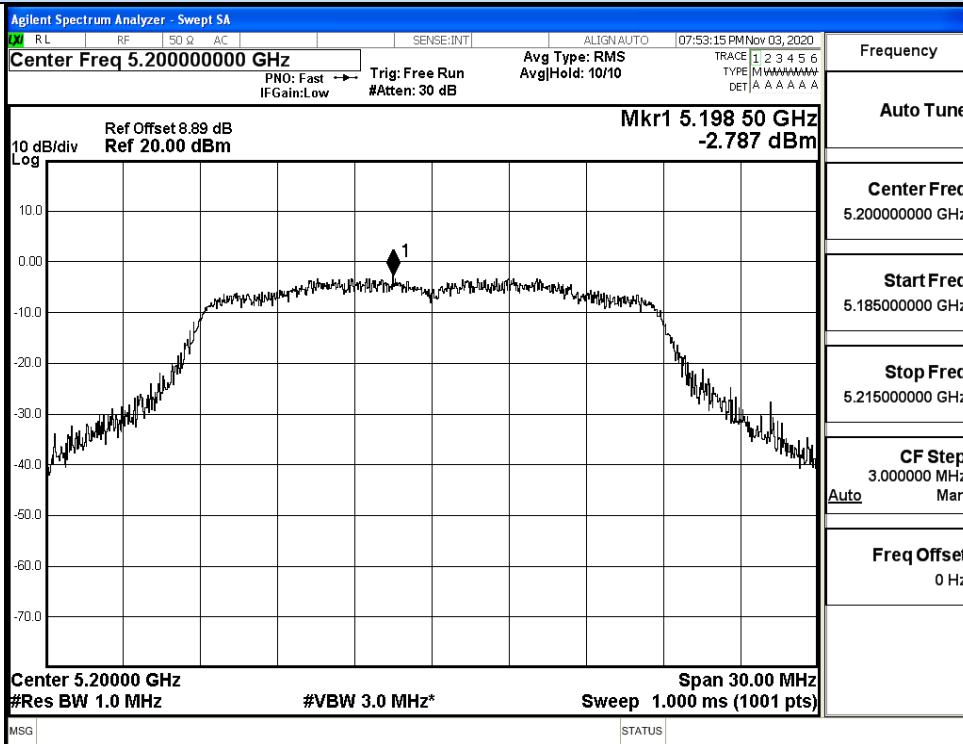


IEEE 802.11na / Channel 48 / 5240MHz

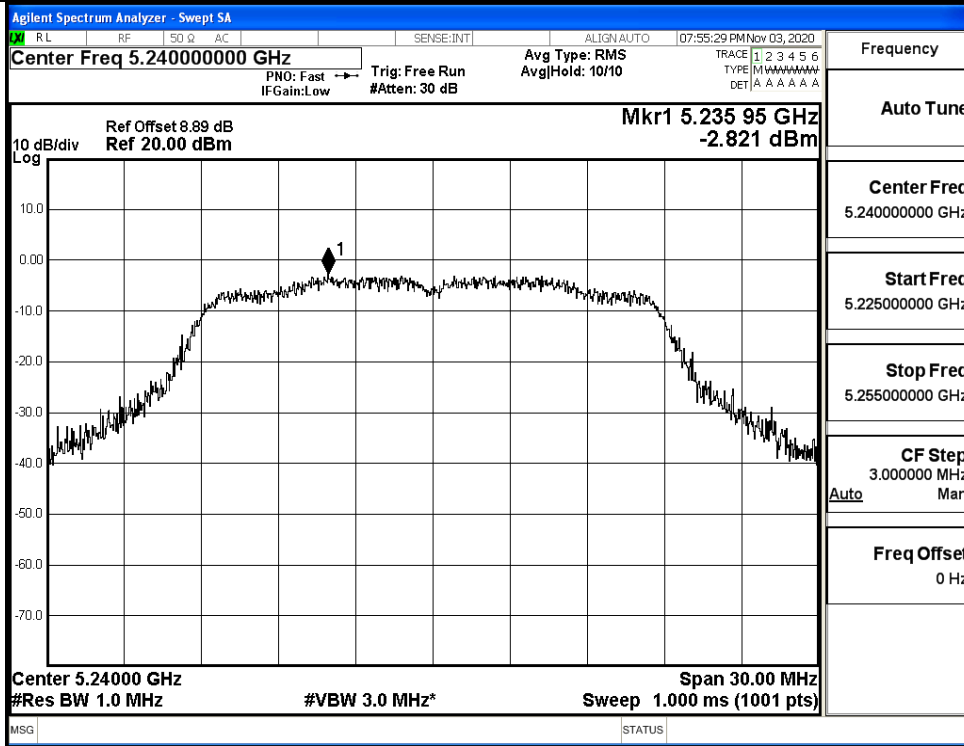
Power Spectral Density



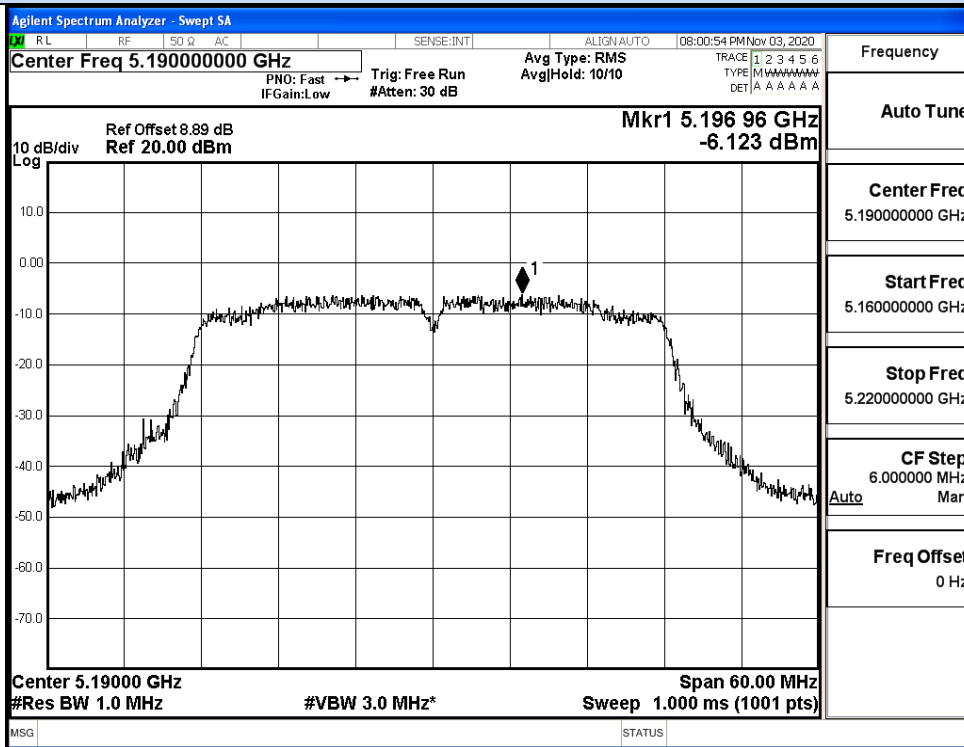
IEEE 802.11n20 / Channel 36 / 5180MHz

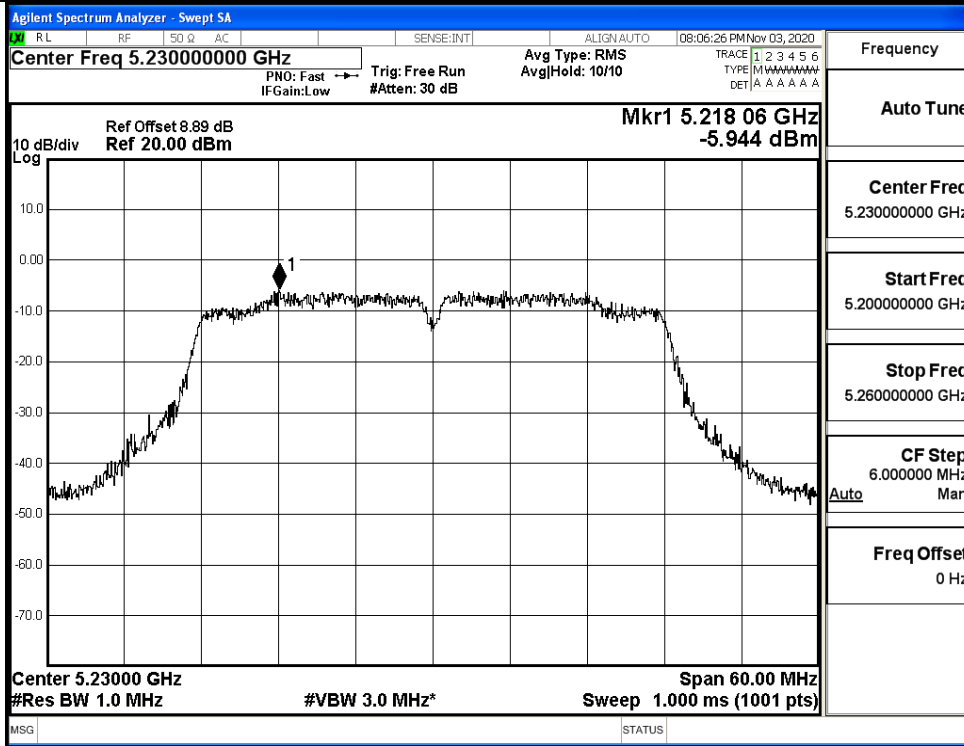


IEEE 802.11n20 / Channel 40 / 5200MHz

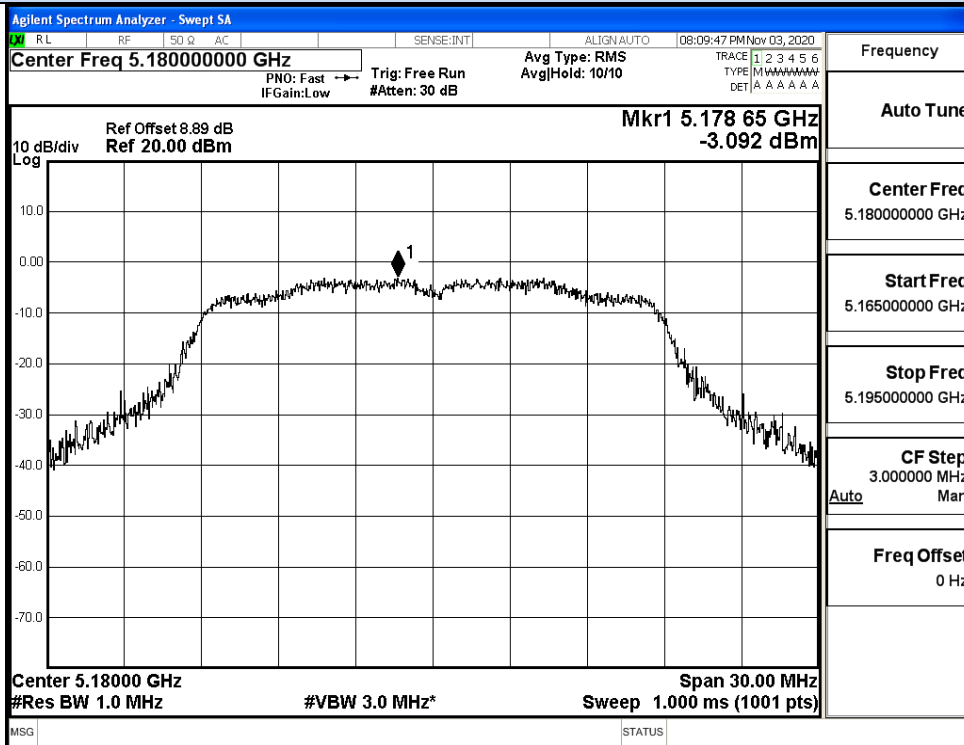


Power Spectral Density



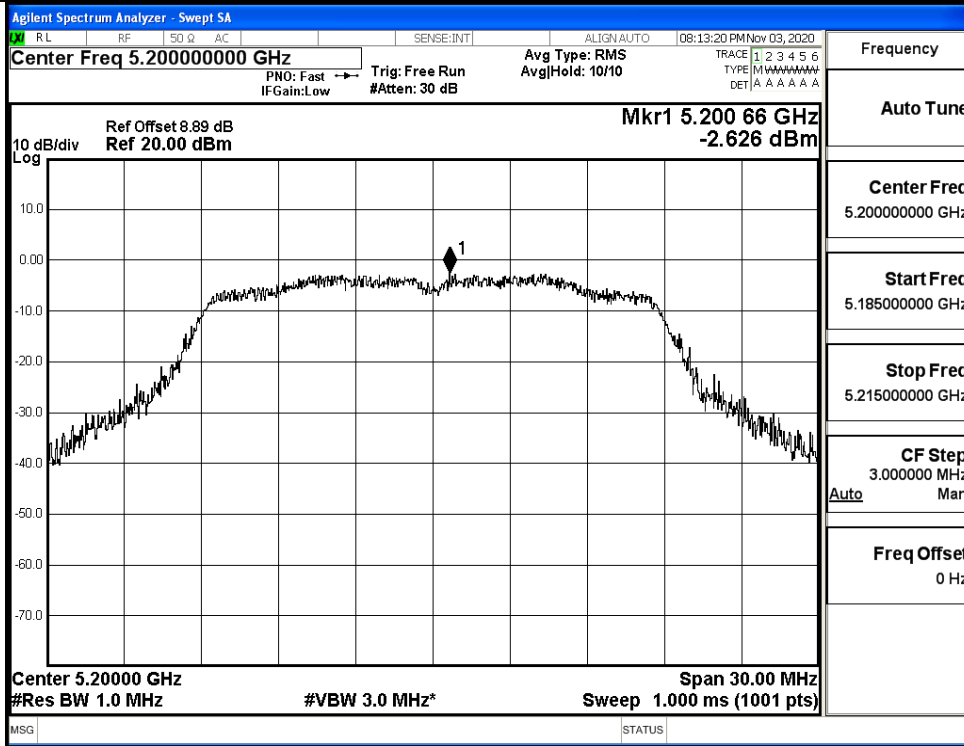


IEEE 802.11n40 / Channel 46 / 5230MHz

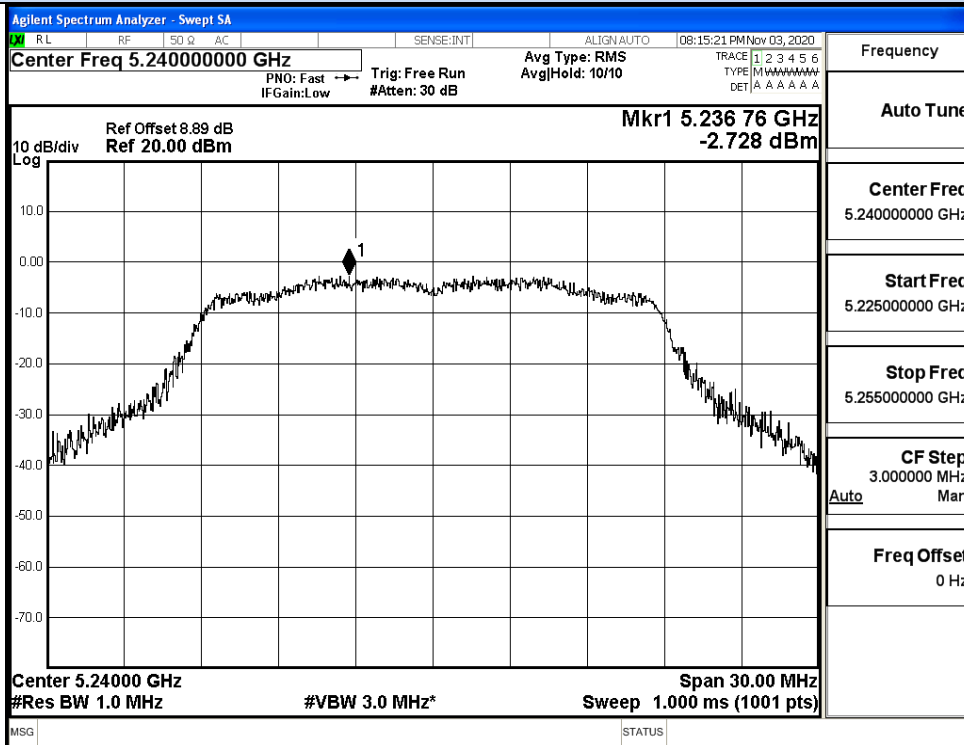


IEEE 802.11ac20 / Channel 36 / 5180MHz

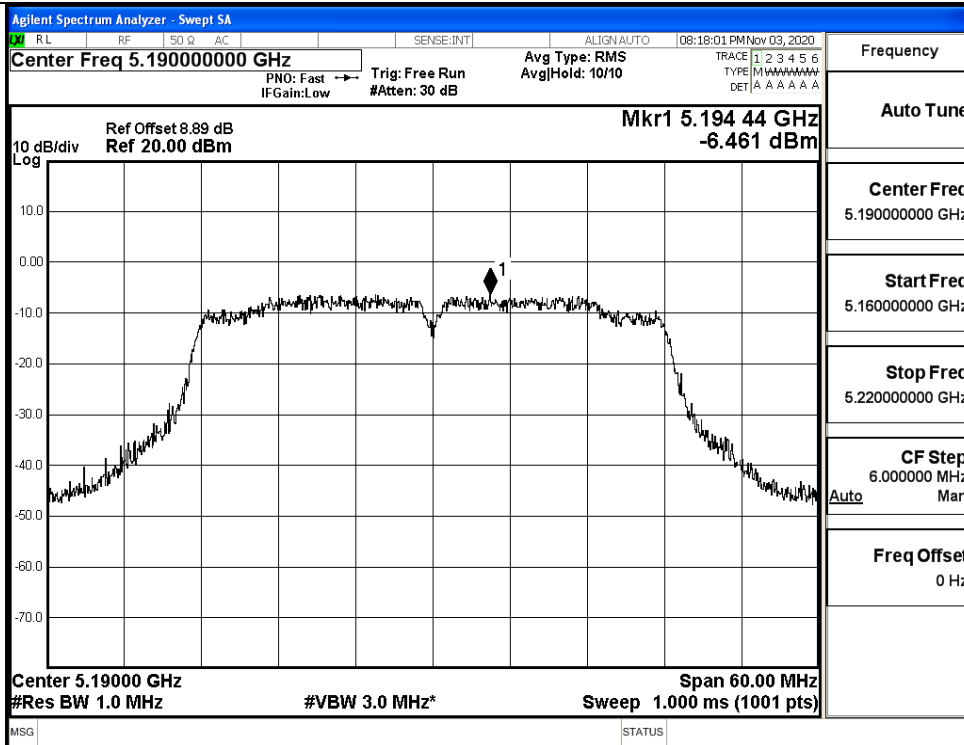




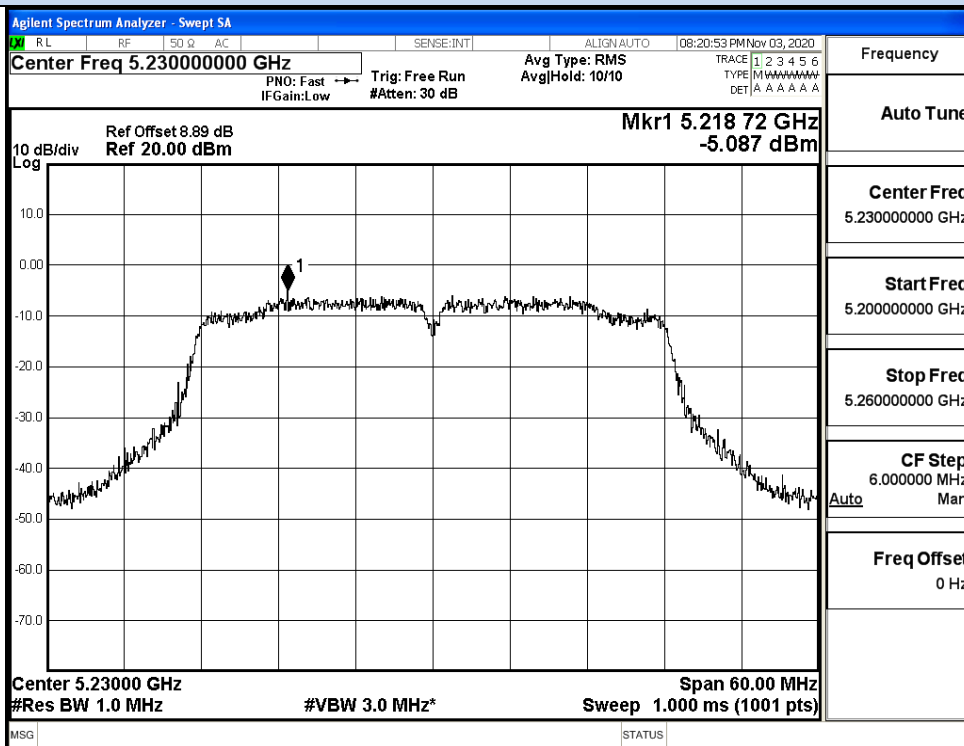
IEEE 802.11ac20 / Channel 40 / 5200MHz



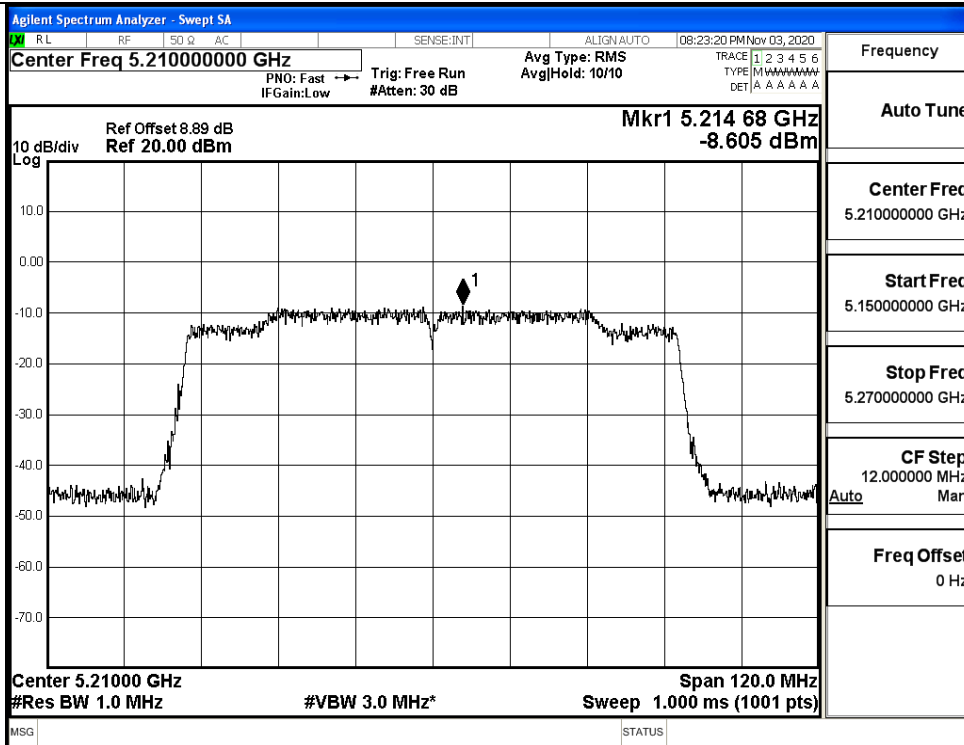
IEEE 802.11ac20 / Channel 48 / 5240MHz



IEEE 802.11ac40 / Channel 38 / 5190MHz

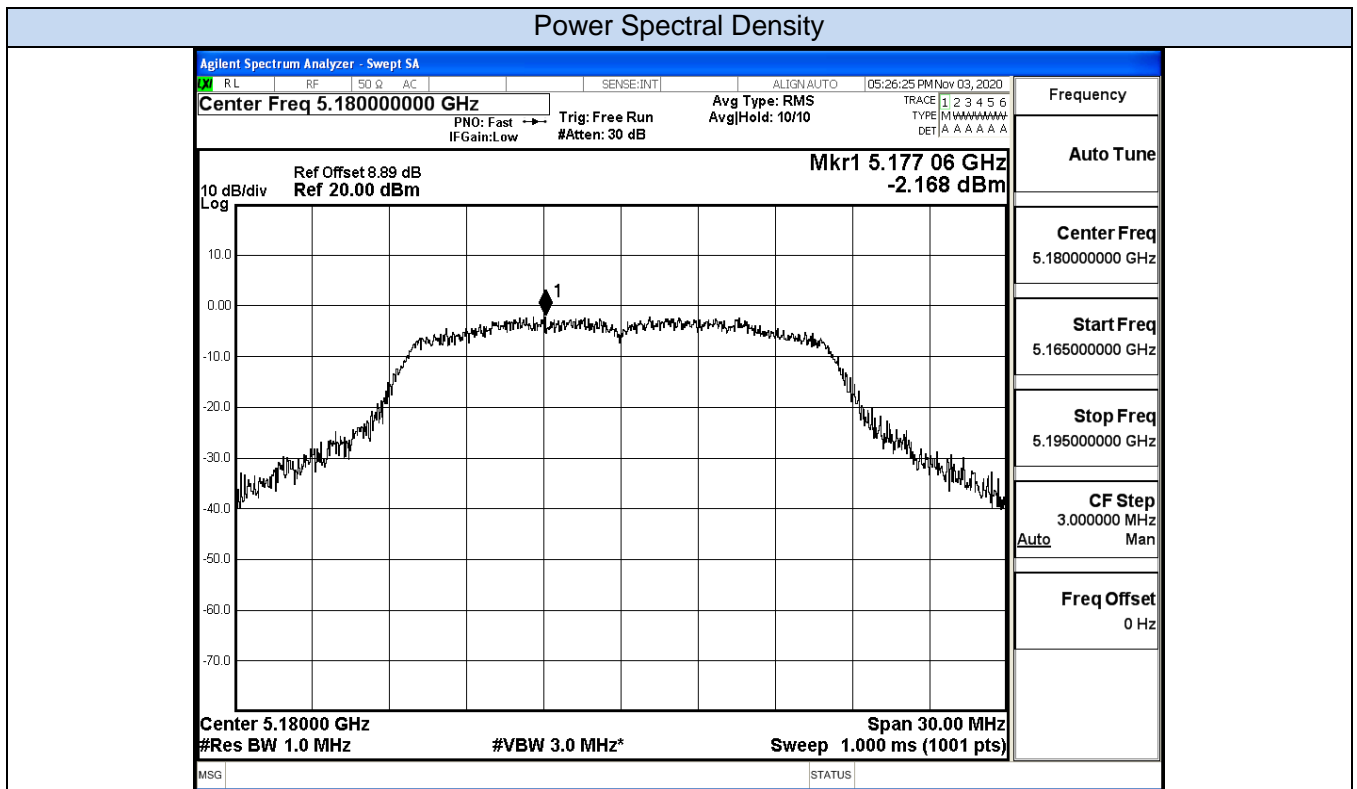


IEEE 802.11ac40 / Channel 46 / 5230MHz

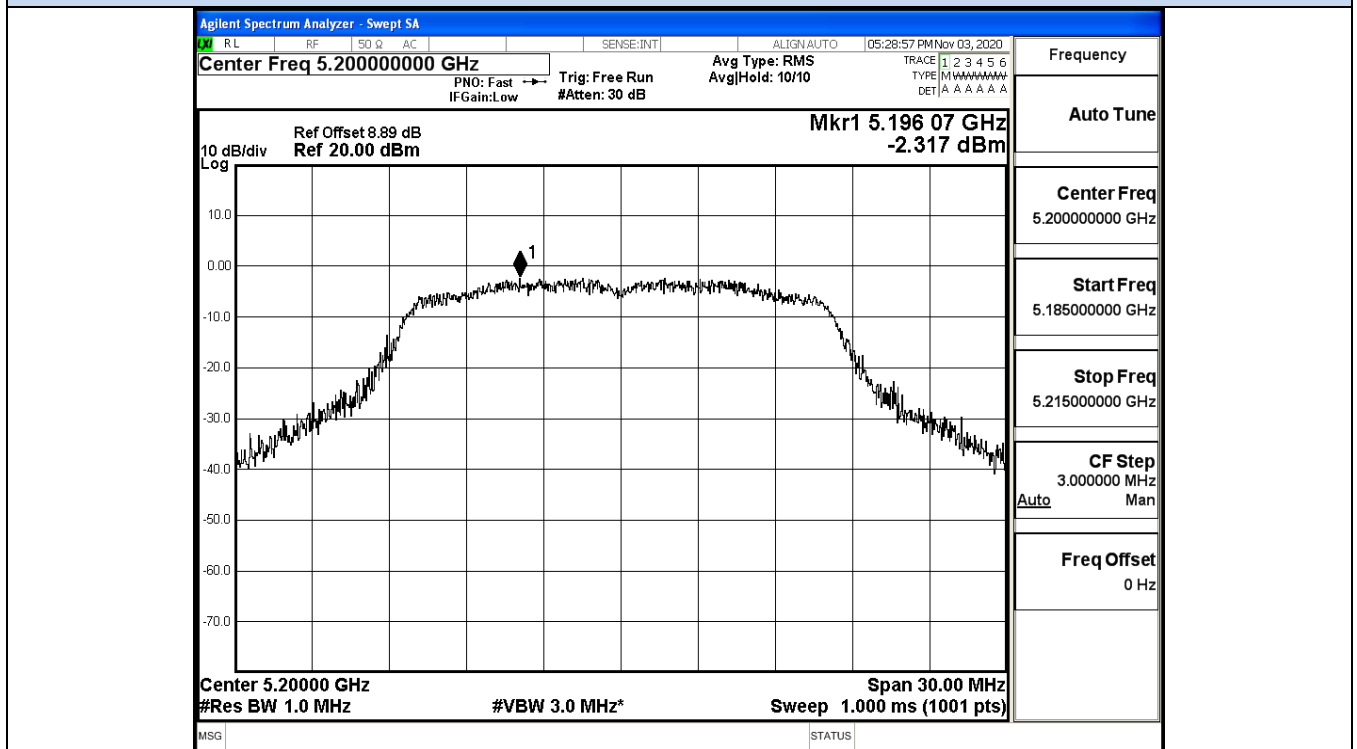


IEEE 802.11ac80 / Channel 42 / 5210MHz

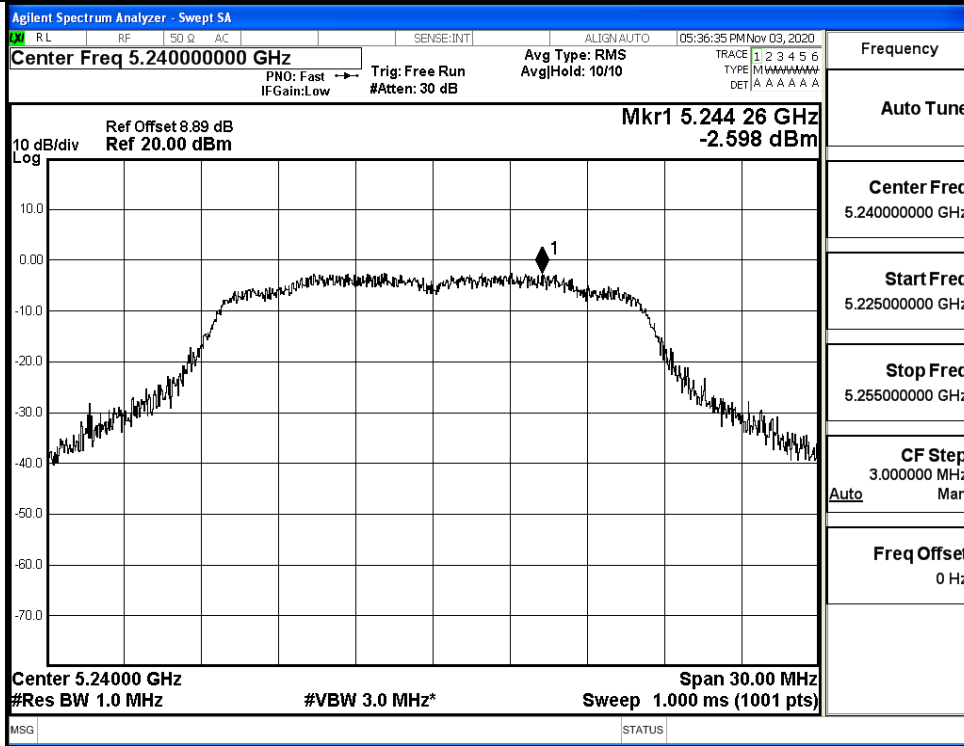
ANT 1



IEEE 802.11a / Channel 36 / 5180MHz

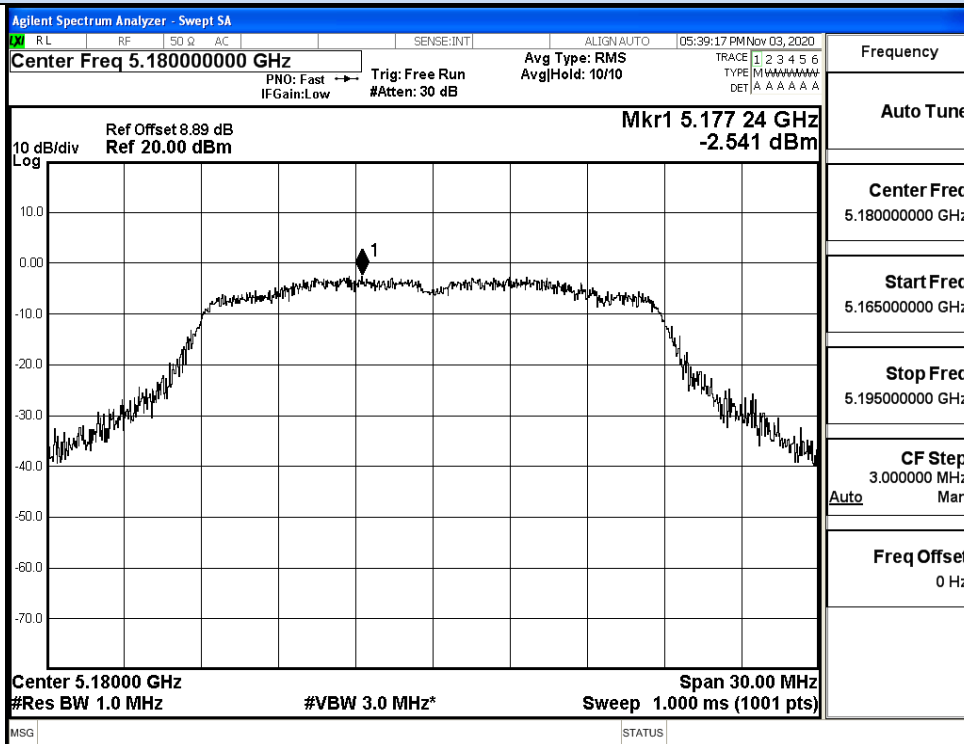


IEEE 802.11a / Channel 40 / 5200MHz

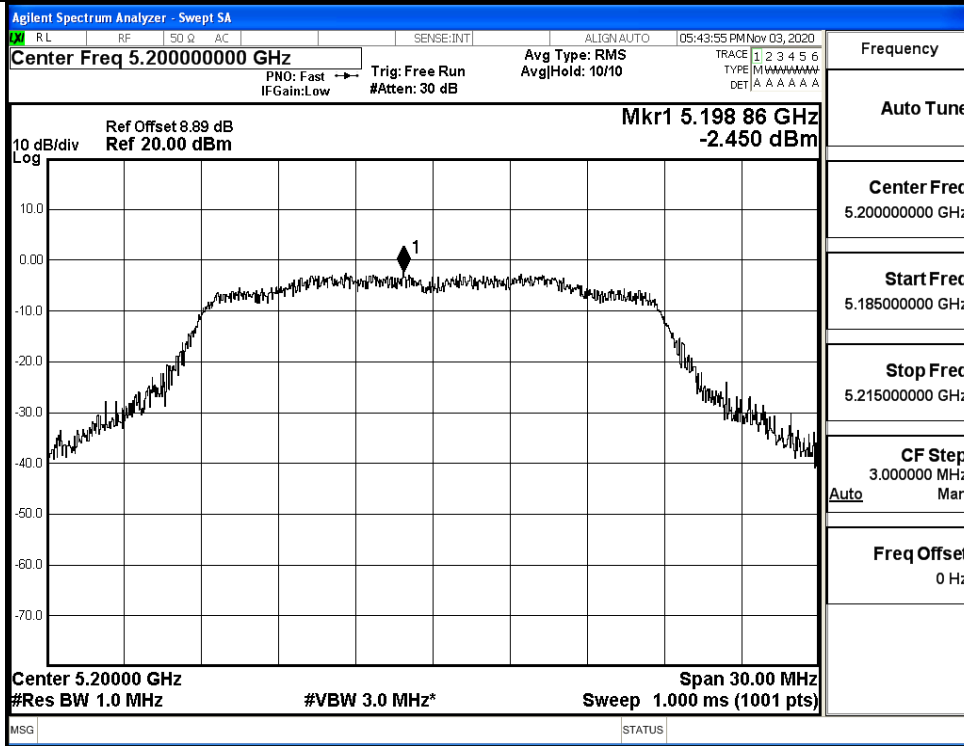


IEEE 802.11na / Channel 48 / 5240MHz

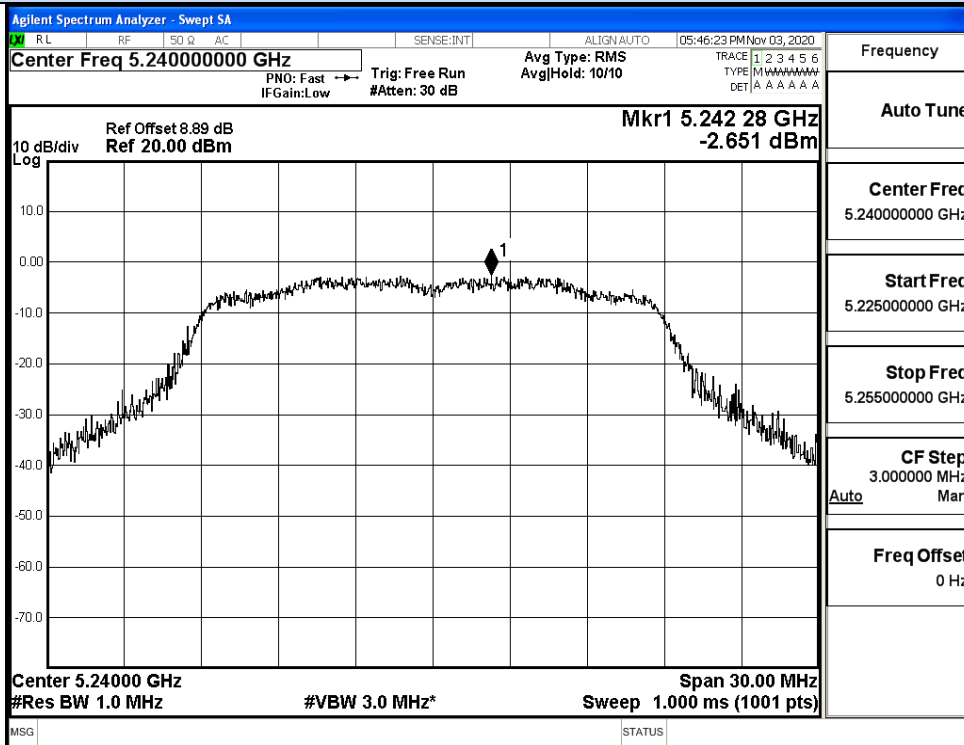
Power Spectral Density



IEEE 802.11n20 / Channel 36 / 5180MHz

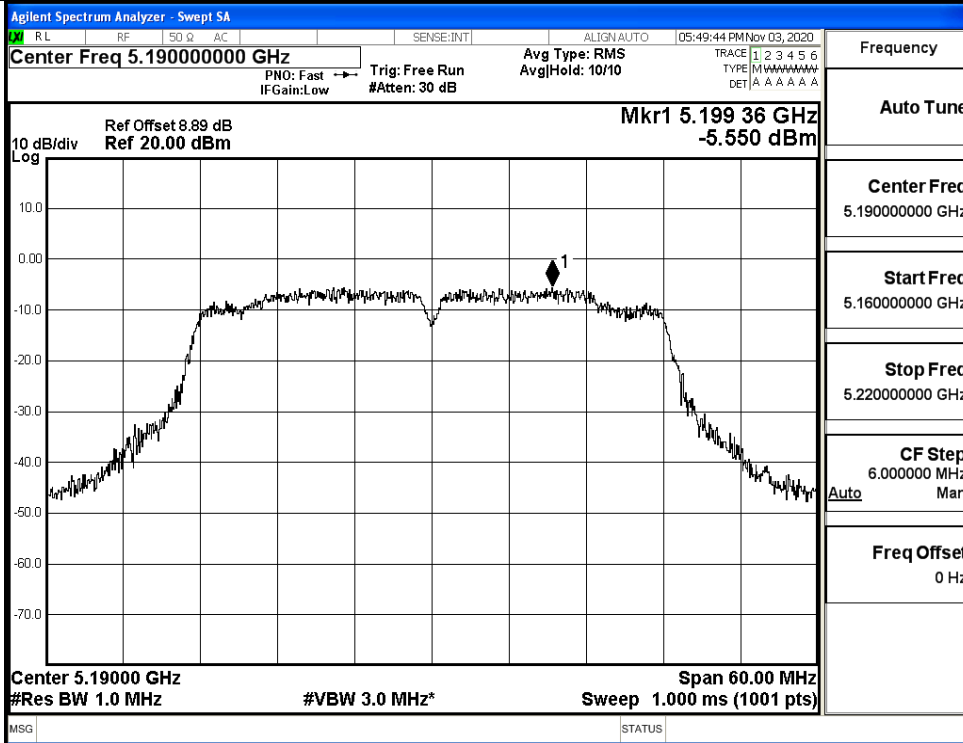


IEEE 802.11n20 / Channel 40 / 5200MHz

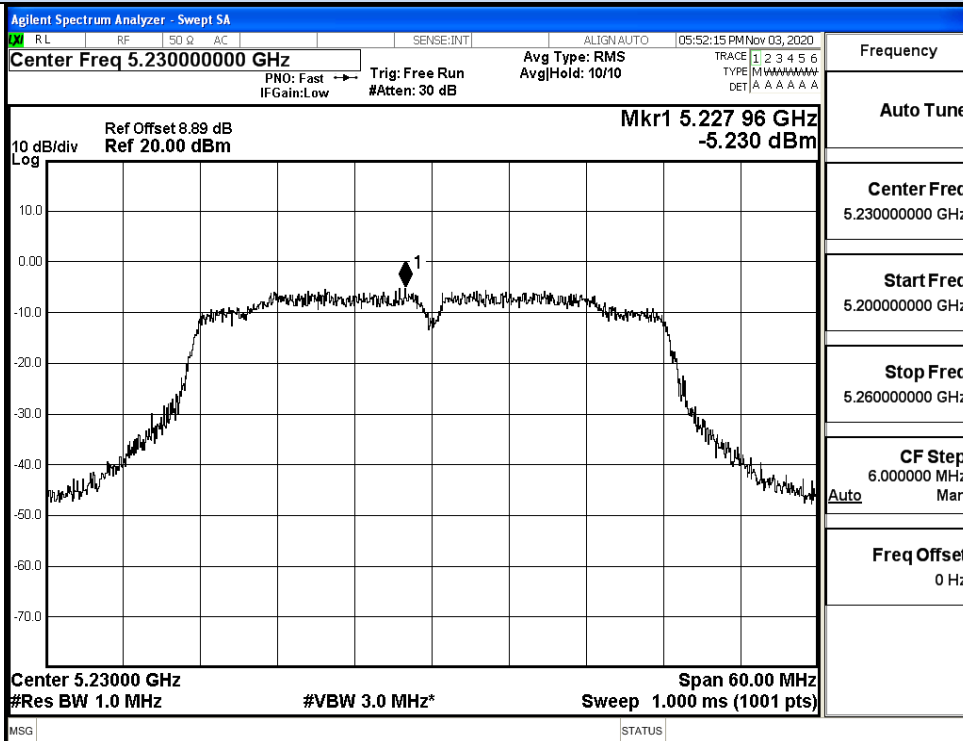


IEEE 802.11n20 / Channel 48 / 5240MHz

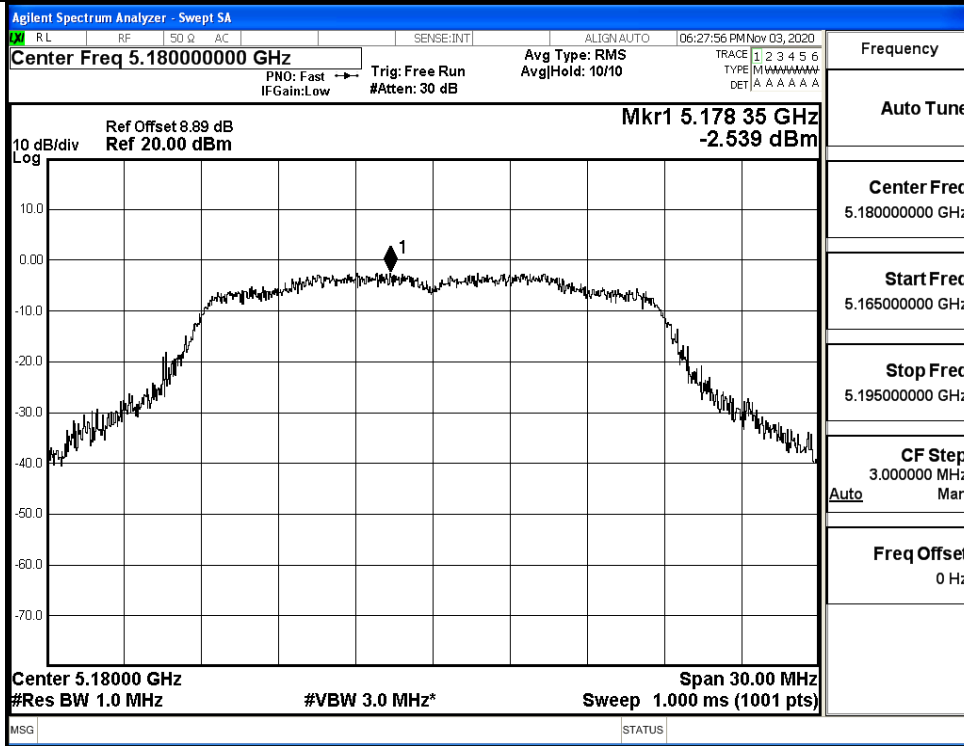
Power Spectral Density



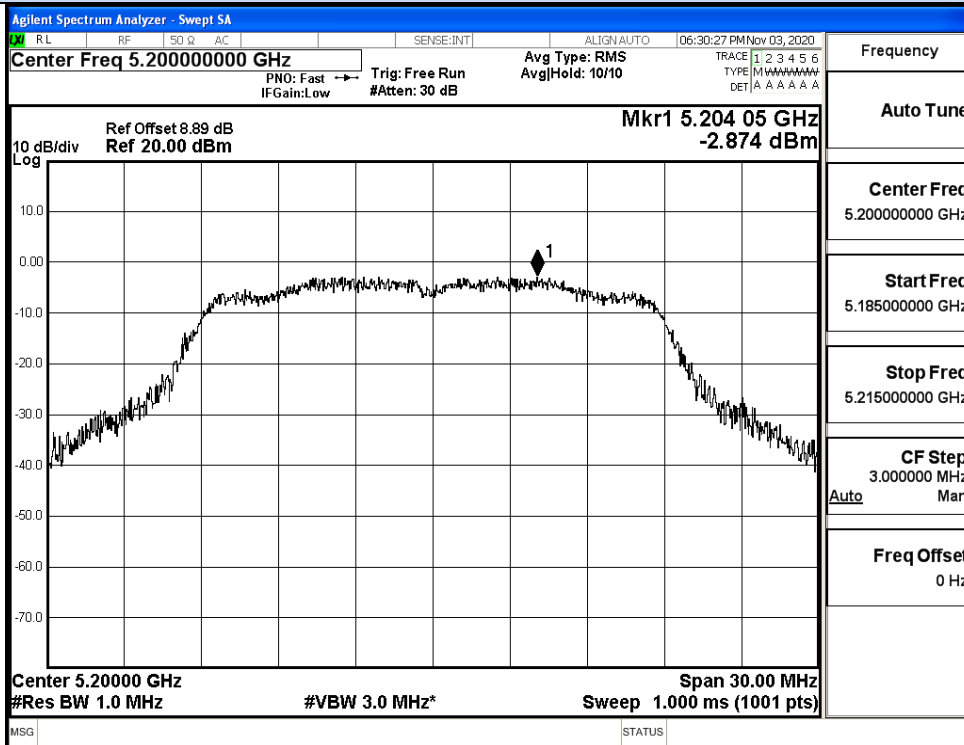
IEEE 802.11n40 / Channel 38 / 5190MHz



IEEE 802.11n40 / Channel 46 / 5230MHz

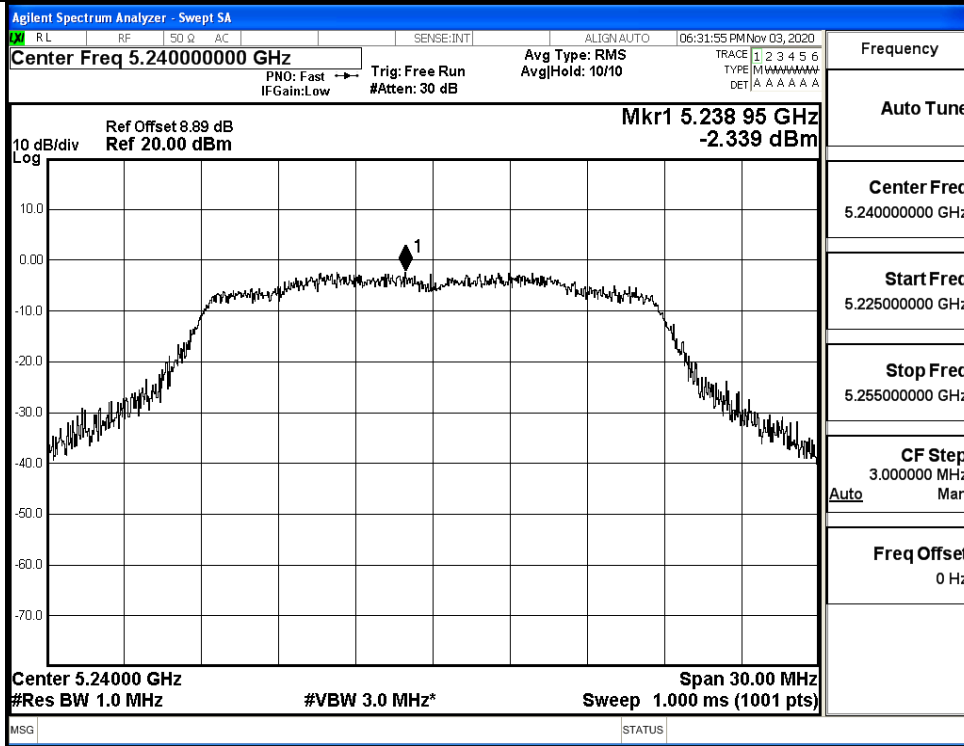


IEEE 802.11ac20 / Channel 36 / 5180MHz

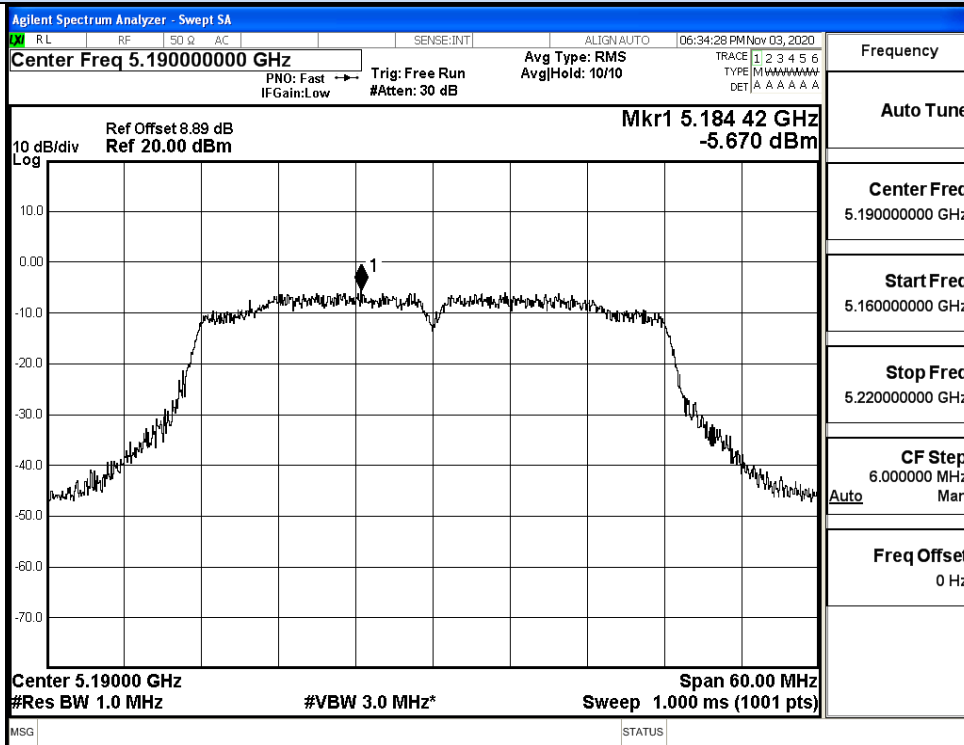


IEEE 802.11ac20 / Channel 40 / 5200MHz

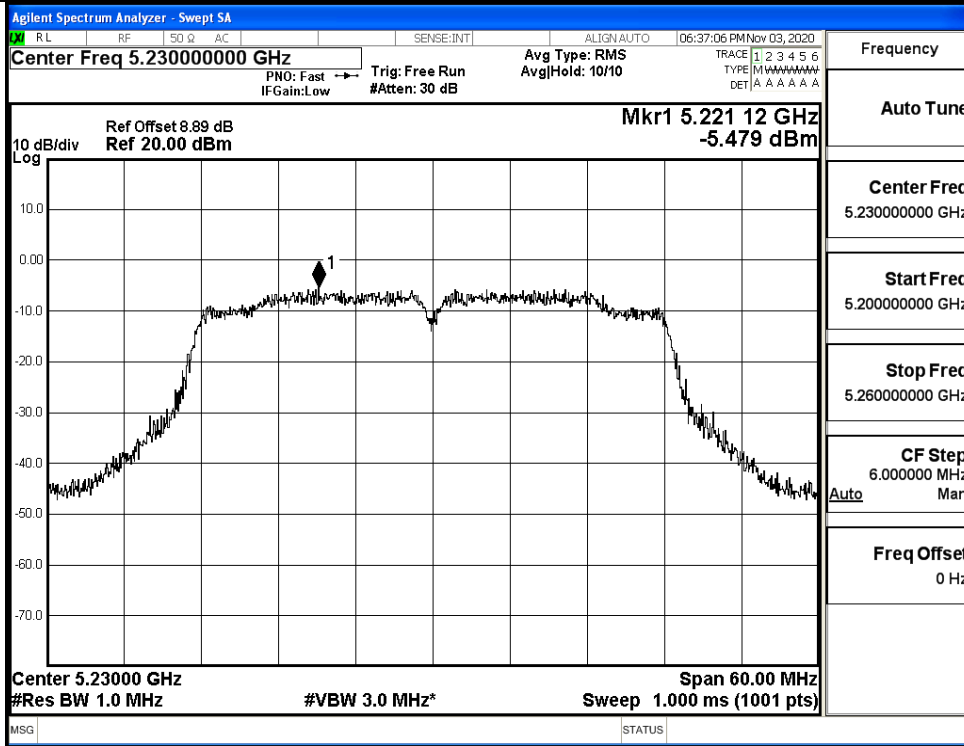




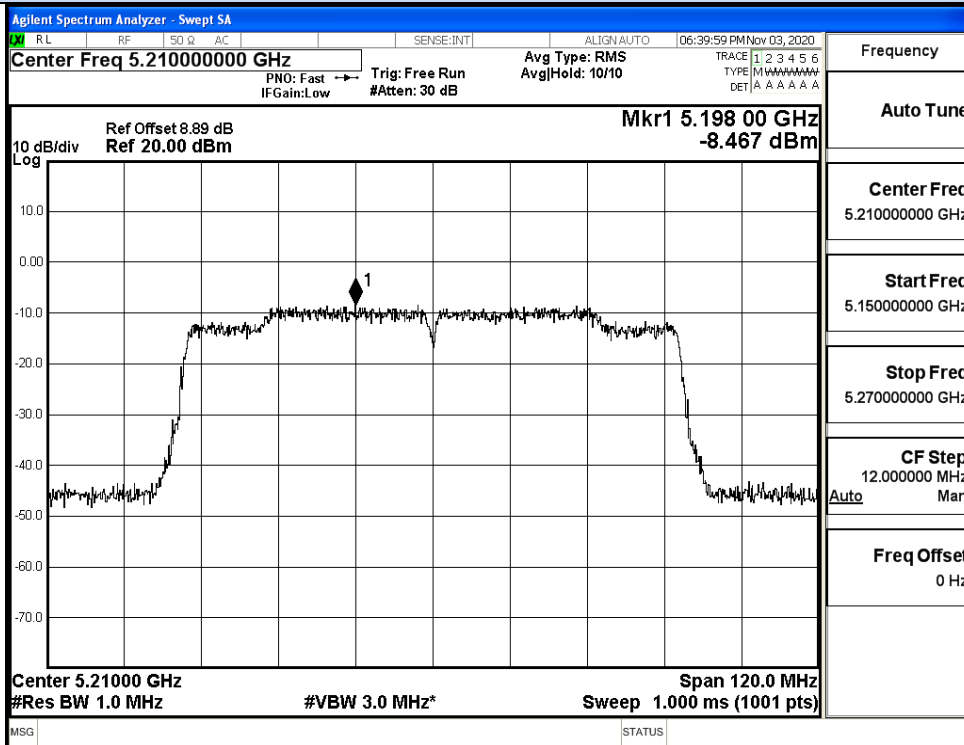
IEEE 802.11ac20 / Channel 48 / 5240MHz



IEEE 802.11ac40 / Channel 38 / 5190MHz



IEEE 802.11ac40 / Channel 46 / 5230MHz

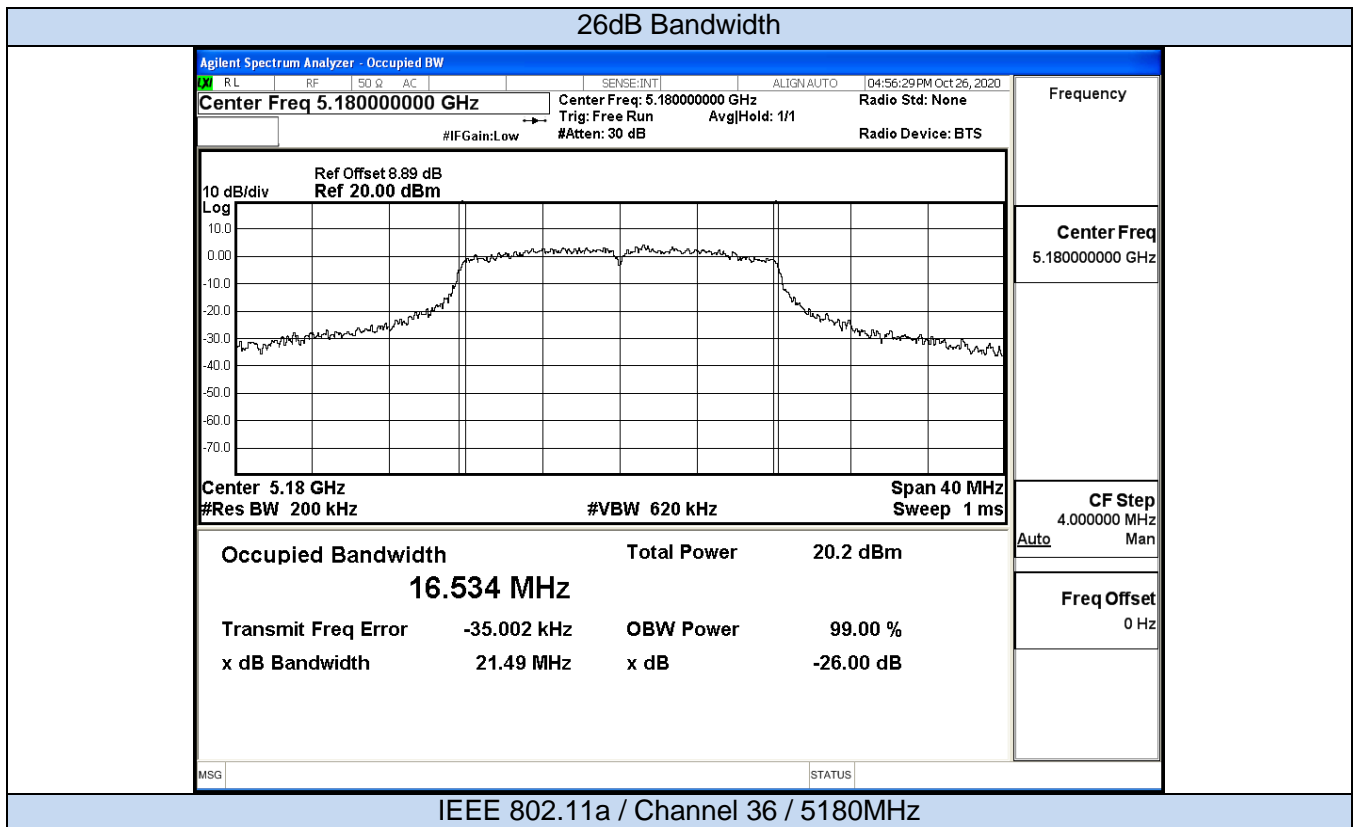


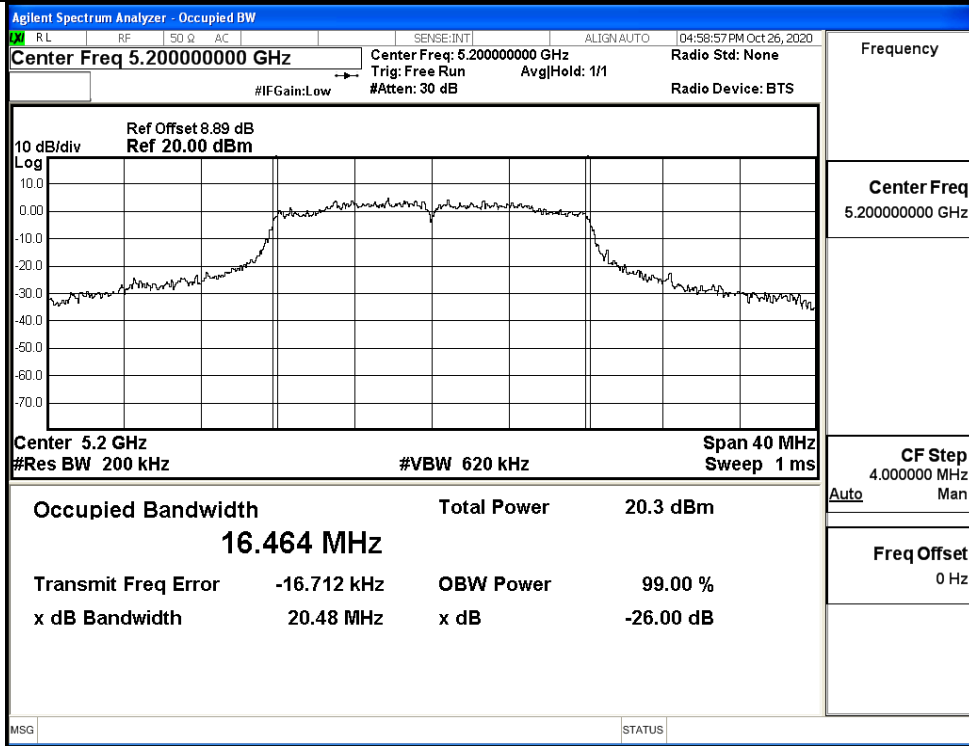
IEEE 802.11ac80 / Channel 42 / 5210MHz

### D.4 Emission Bandwidth

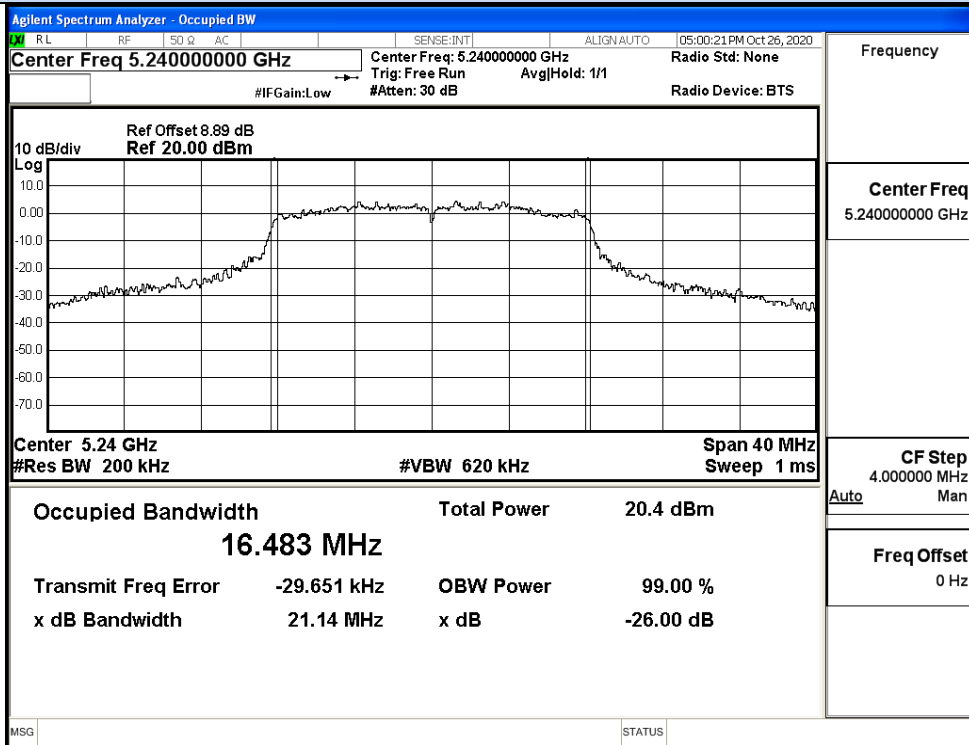
ANT 0

Test Mode	Channel	Frequency (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
11A	36	5180	21.49	No Limit	Pass
	40	5200	20.48		Pass
	48	5240	21.14		Pass
11N20 SISO	36	5180	22.34	No Limit	Pass
	40	5200	22.20		Pass
	48	5240	22.16		Pass
11N40 SISO	38	5190	41.27	No Limit	Pass
	46	5230	52.36		Pass
11AC20 SISO	36	5180	21.30	No Limi	Pass
	40	5200	22.39		Pass
	48	5240	21.91		Pass
11AC40 SISO	38	5190	41.43	No Limi	Pass
	46	5230	42.04		Pass
11AC80 SISO	42	5210	88.91	No Limi	Pass



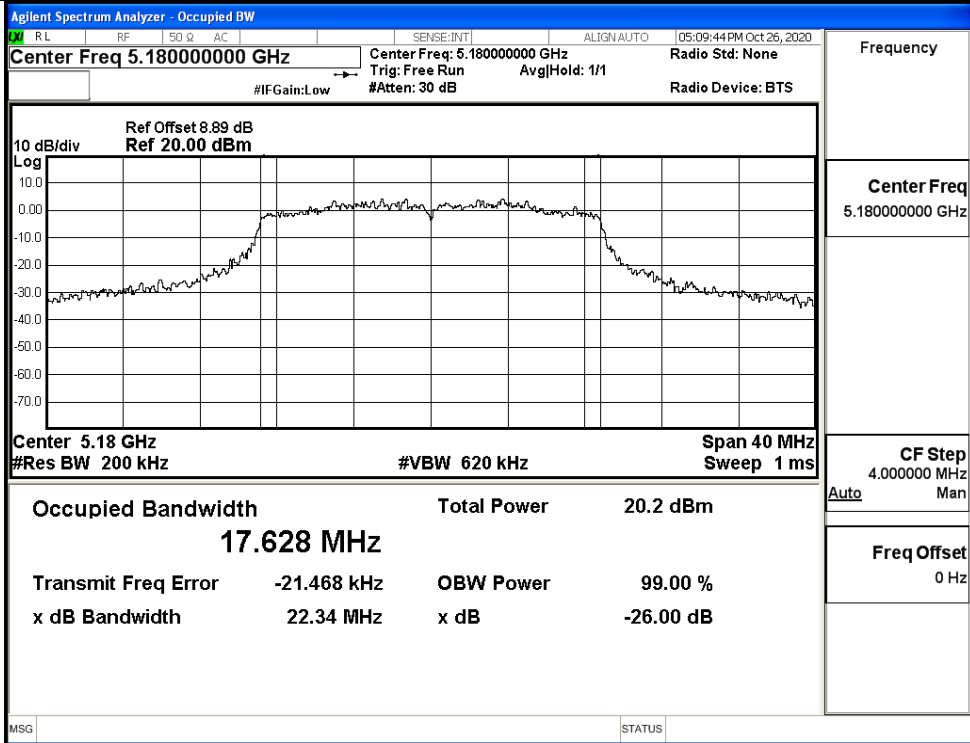


IEEE 802.11a / Channel 40 / 5200MHz

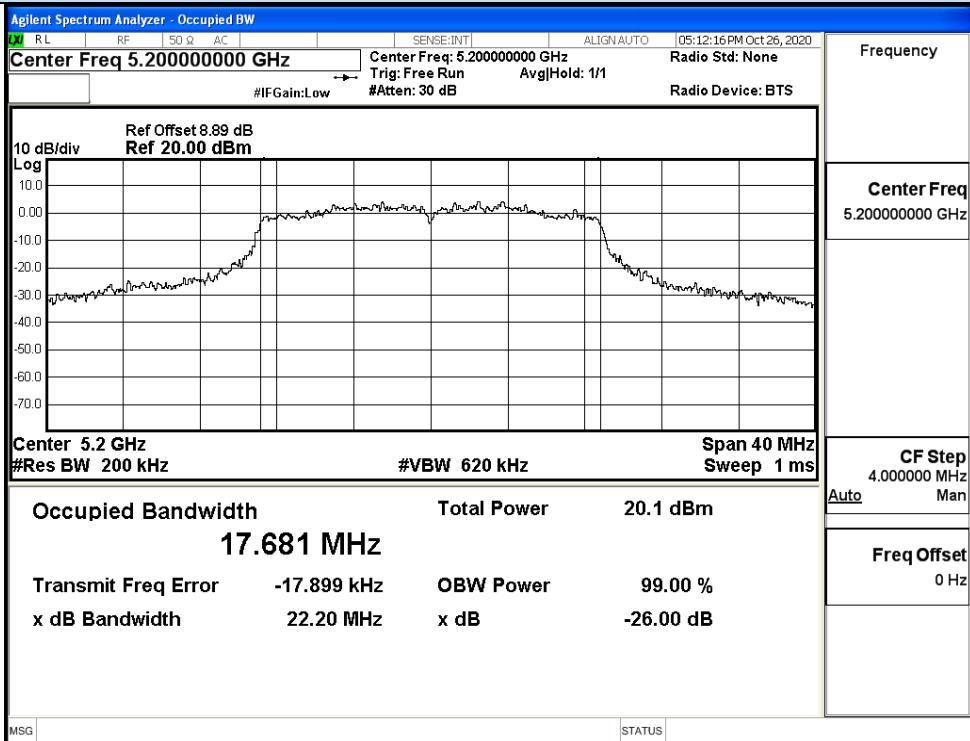


IEEE 802.11a / Channel 48 / 5240MHz

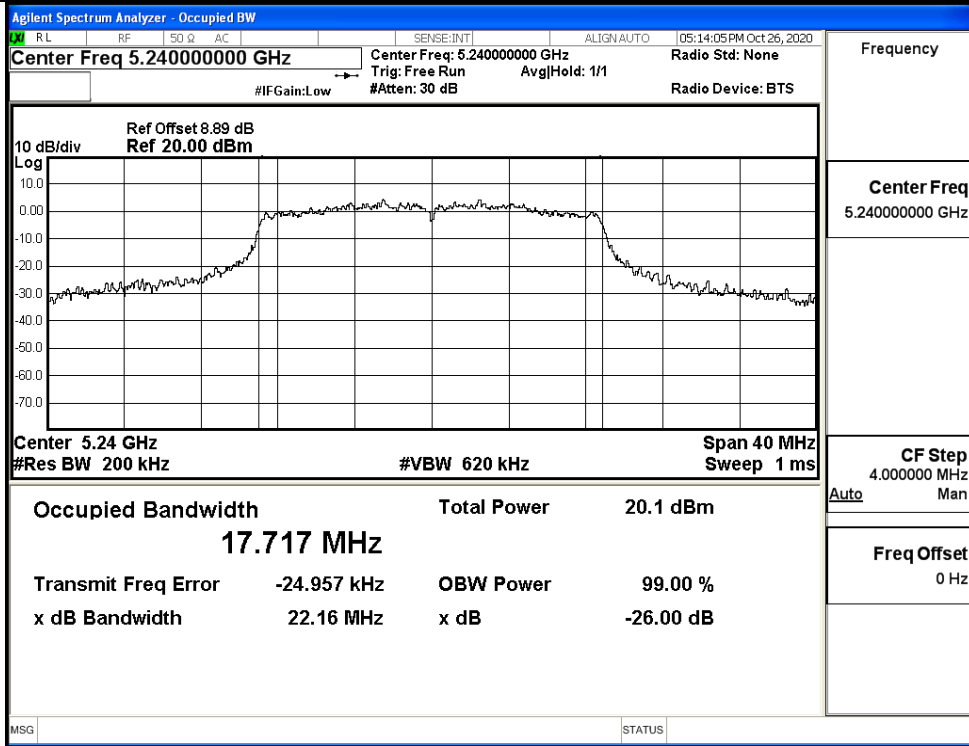
26dB Bandwidth



IEEE 802.11n20 / Channel 36 / 5180MHz

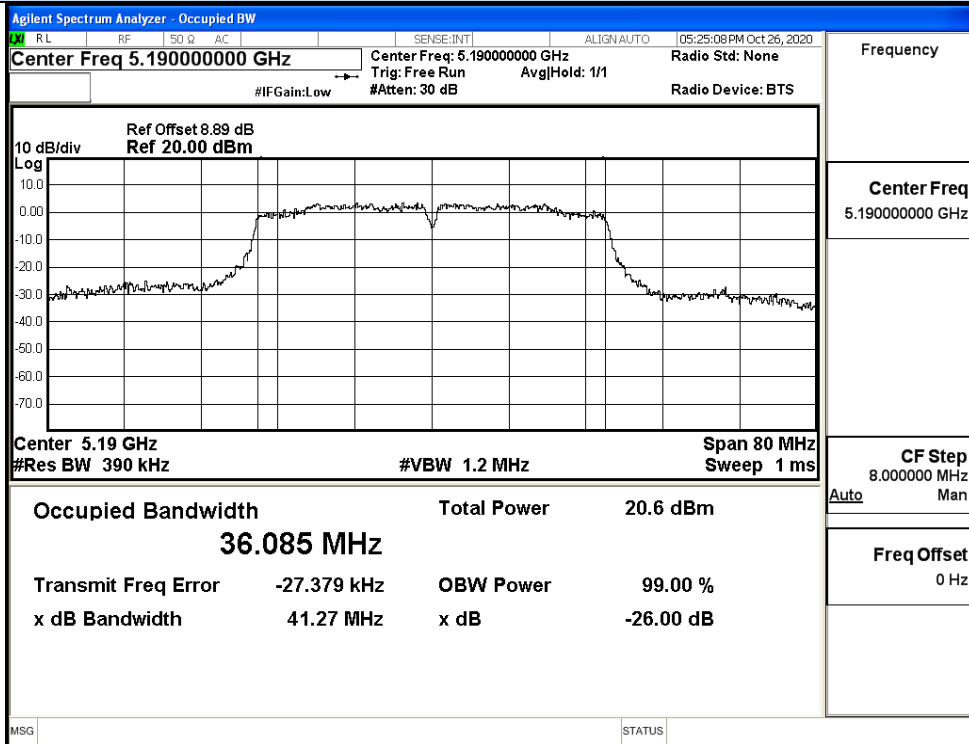


IEEE 802.11n20 / Channel 40 / 5200MHz

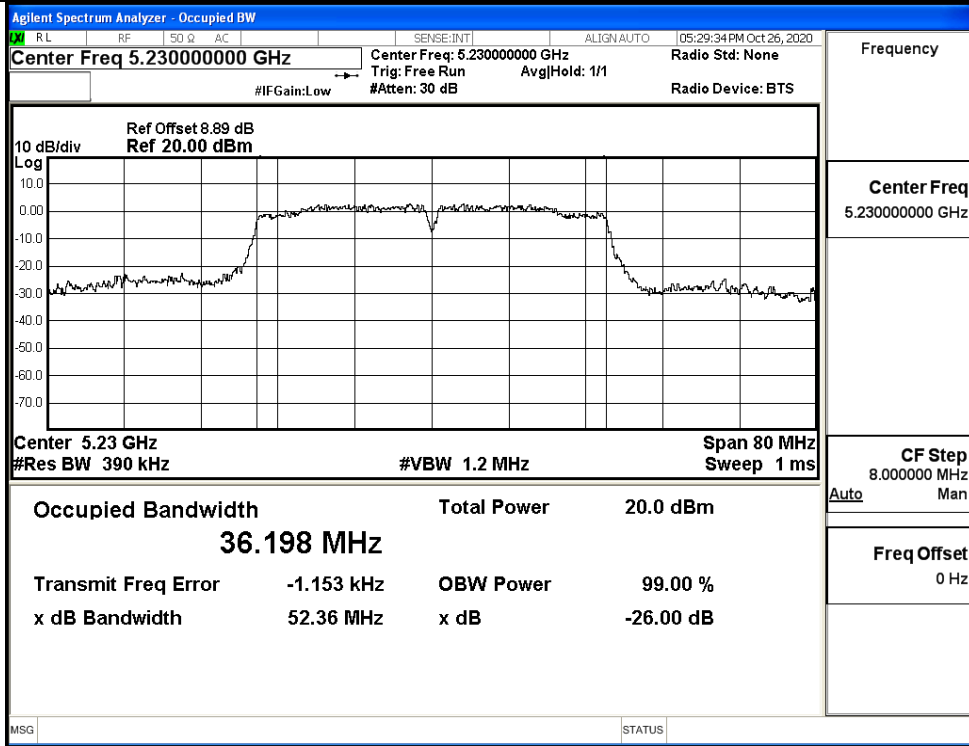


IEEE 802.11n20 / Channel 48 / 5240MHz

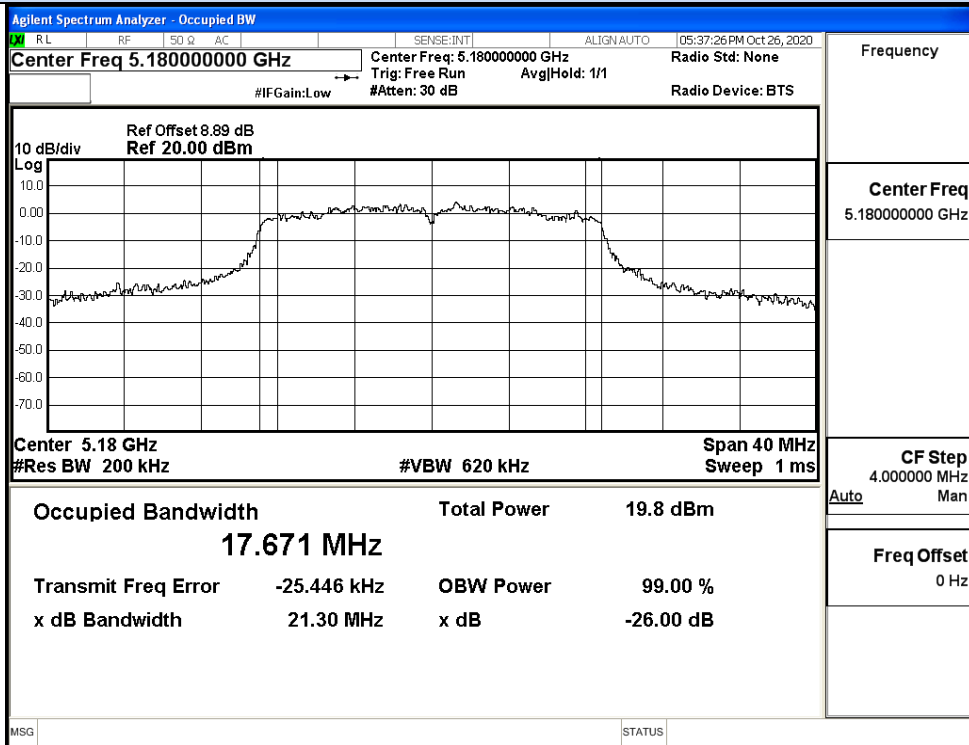
26dB Bandwidth



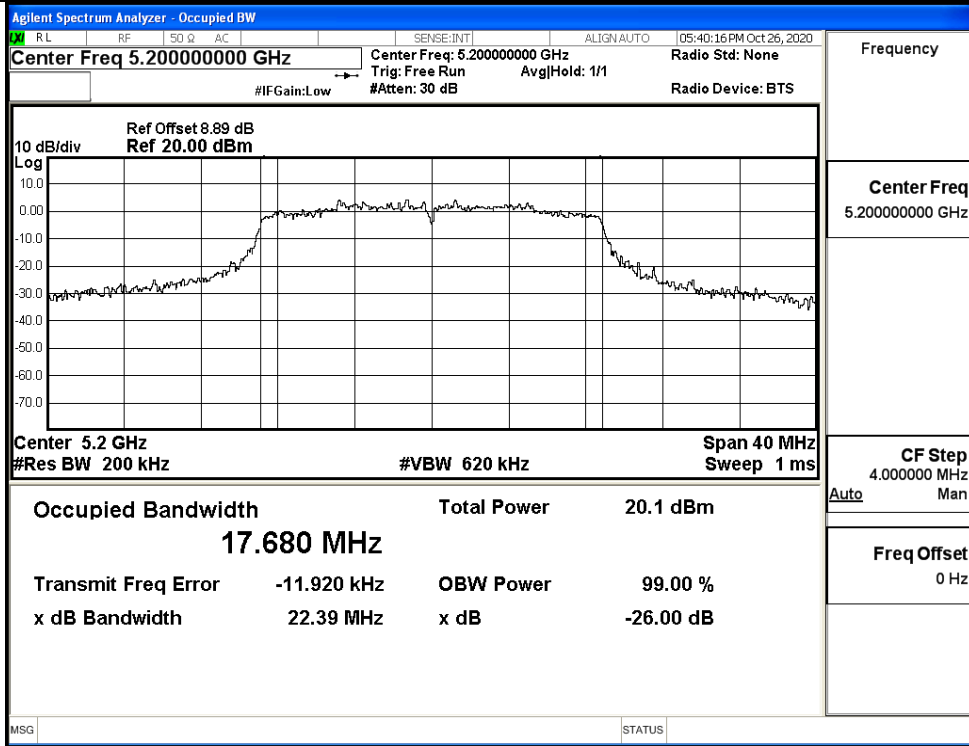
IEEE 802.11n40 / Channel 38 / 5190MHz



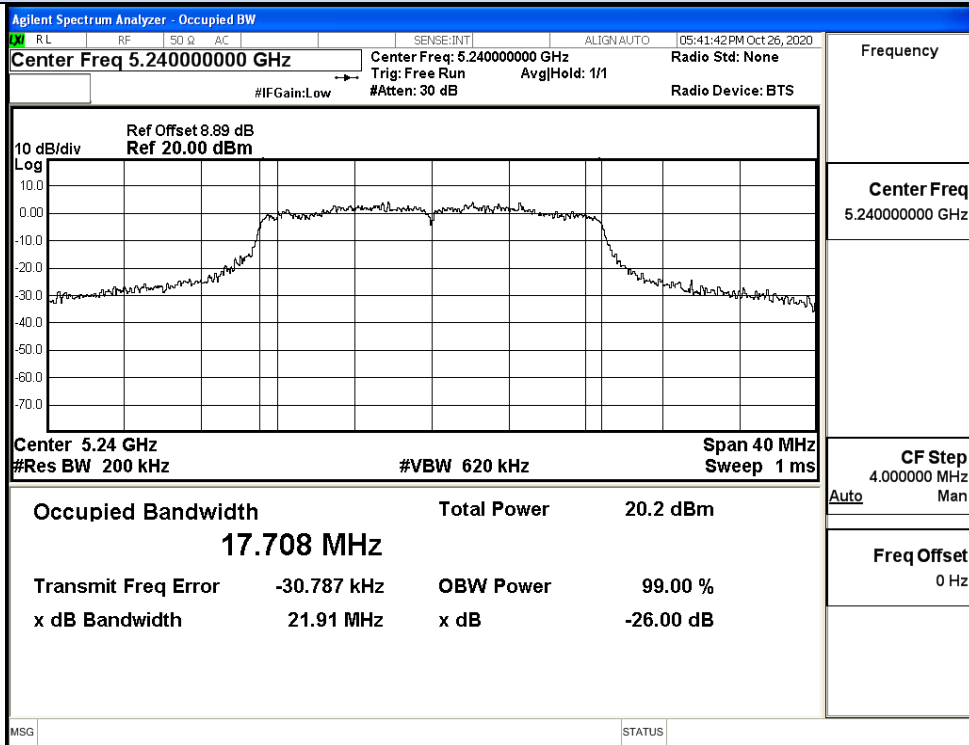
IEEE 802.11n40 / Channel 46 / 5230MHz



IEEE 802.11ac20 / Channel 36 / 5180MHz

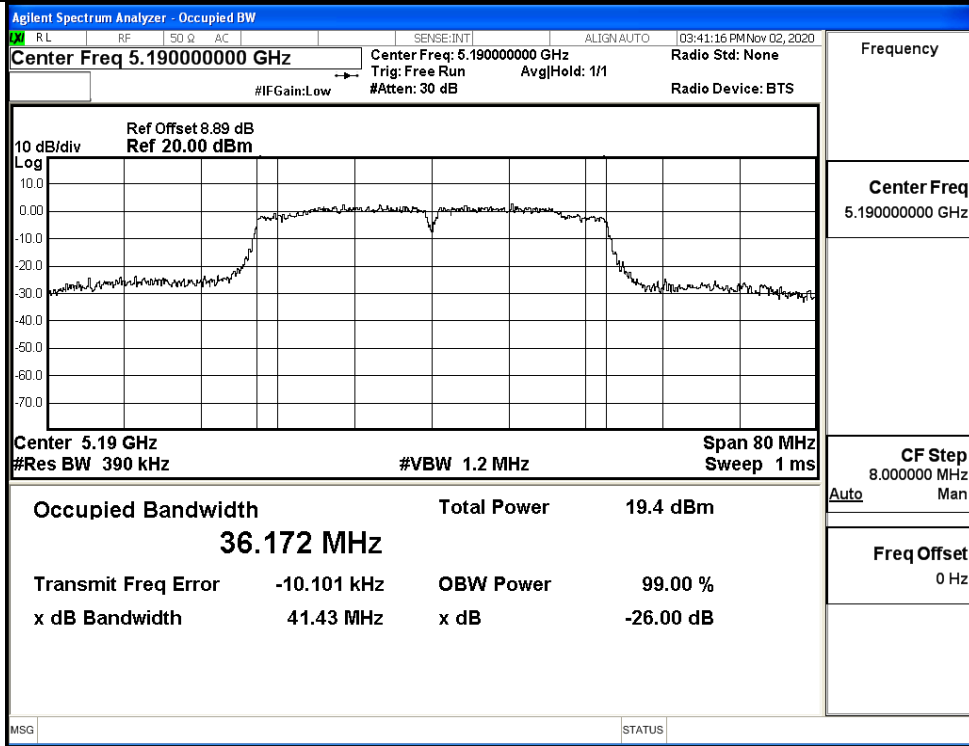


IEEE 802.11ac20 / Channel 40 / 5200MHz

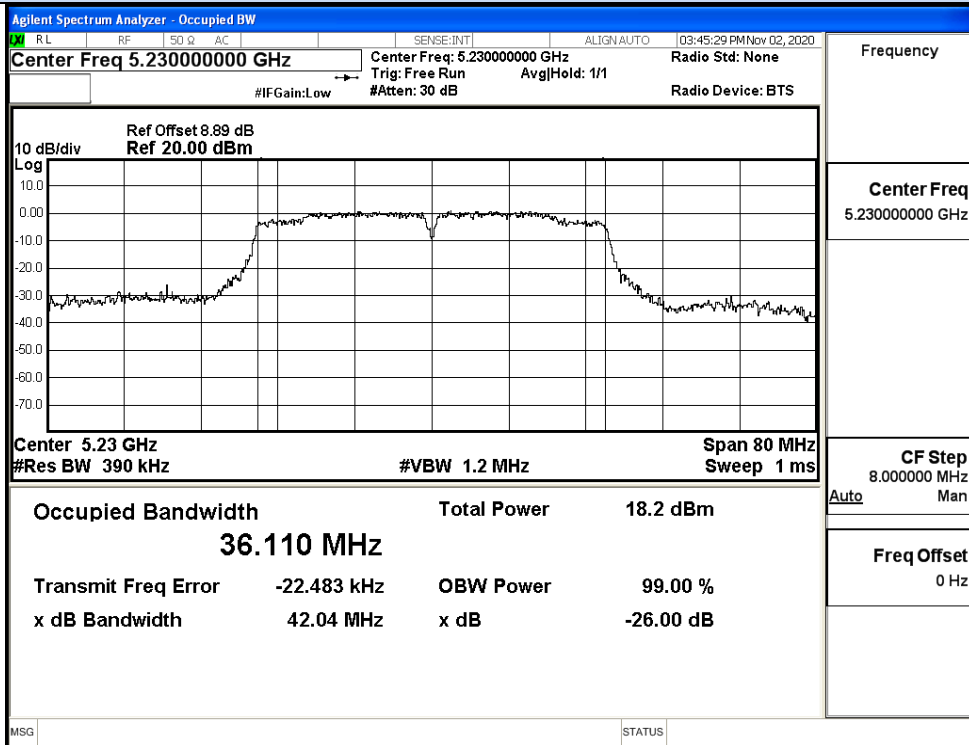


IEEE 802.11ac20 / Channel 48 / 5240MHz

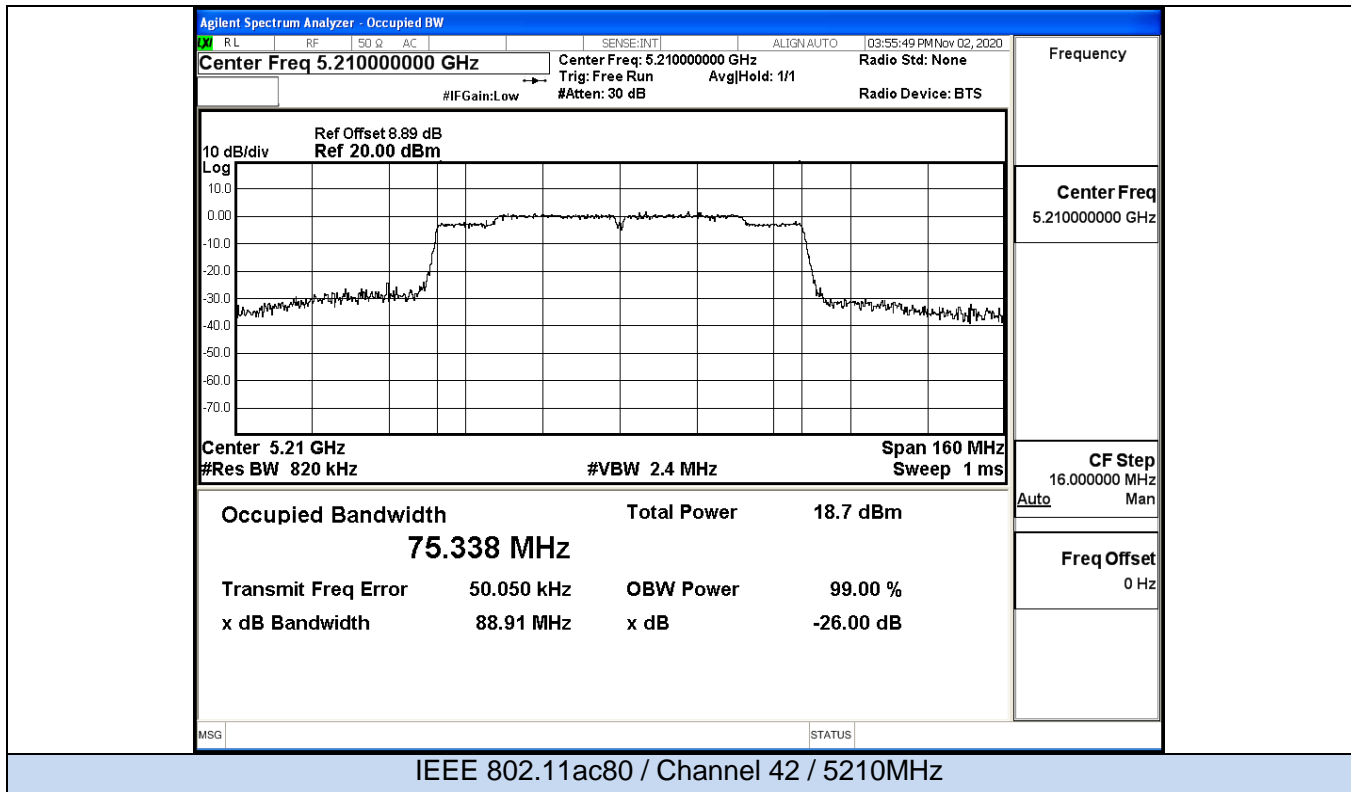




IEEE 802.11ac40 / Channel 38 / 5190MHz



IEEE 802.11ac40 / Channel 46 / 5230MHz



ANT 1

Test Mode	Channel	Frequency (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
11A	36	5180	20.83	No Limit	Pass
	40	5200	22.96		Pass
	48	5240	23.71		Pass
11N20 SISO	36	5180	22.77	No Limit	Pass
	40	5200	21.91		Pass
	48	5240	21.61		Pass
11N40 SISO	38	5190	41.46	No Limit	Pass
	46	5230	41.48		Pass
11AC20 SISO	36	5180	22.02	No Limi	Pass
	40	5200	21.41		Pass
	48	5240	21.08		Pass
11AC40 SISO	38	5190	41.36	No Limi	Pass
	46	5230	41.07		Pass
11AC80 SISO	42	5210	95.84	No Limi	Pass

26dB Bandwidth

Agilent Spectrum Analyzer - Occupied BW

Center Freq 5.18000000 GHz

Center Freq: 5.18000000 GHz  
Trig: Free Run  
Avg|Hold: 1/1

Radio Std: None  
Radio Device: BTS

Ref Offset 8.89 dB  
Ref 20.00 dBm

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

Occupied Bandwidth	Total Power	19.4 dBm
<b>16.478 MHz</b>		
Transmit Freq Error	-26.465 kHz	OBW Power
		99.00 %
x dB Bandwidth	20.83 MHz	x dB
		-26.00 dB

Frequency: 5.18000000 GHz

Center Freq: 5.18000000 GHz

CF Step: 4.000000 MHz

Freq Offset: 0 Hz

IEEE 802.11a / Channel 36 / 5180MHz

Agilent Spectrum Analyzer - Occupied BW

Center Freq 5.20000000 GHz

Center Freq: 5.20000000 GHz  
Trig: Free Run  
Avg|Hold: 1/1

Radio Std: None  
Radio Device: BTS

Ref Offset 8.89 dB  
Ref 20.00 dBm

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

Occupied Bandwidth	Total Power	19.5 dBm
<b>16.507 MHz</b>		
Transmit Freq Error	-21.540 kHz	OBW Power
		99.00 %
x dB Bandwidth	22.96 MHz	x dB
		-26.00 dB

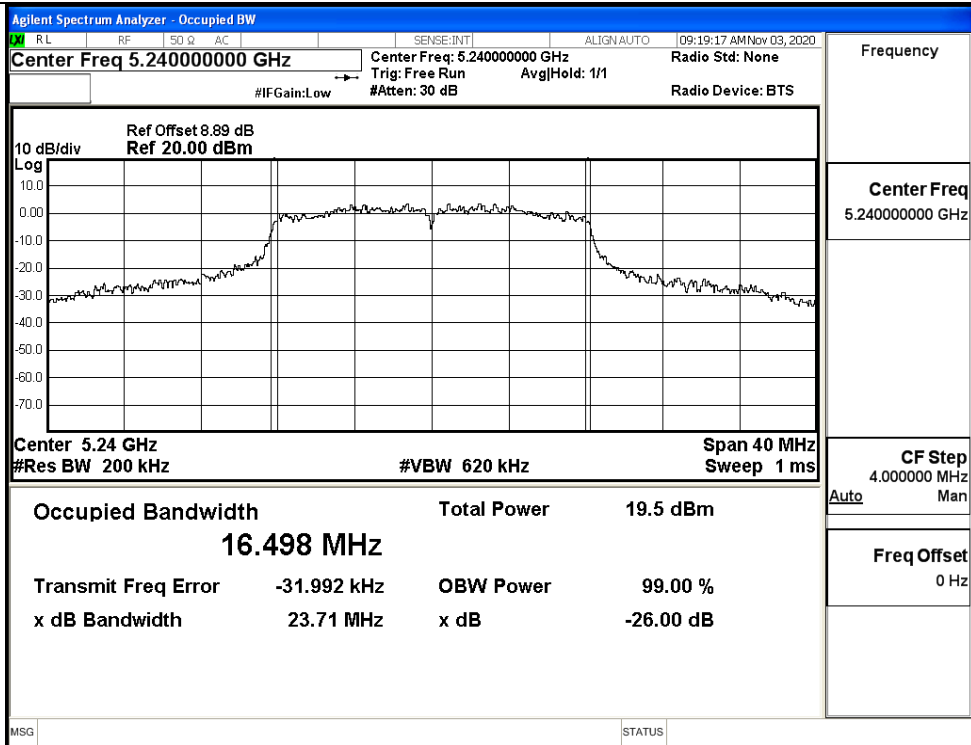
Frequency: 5.20000000 GHz

Center Freq: 5.20000000 GHz

CF Step: 4.000000 MHz

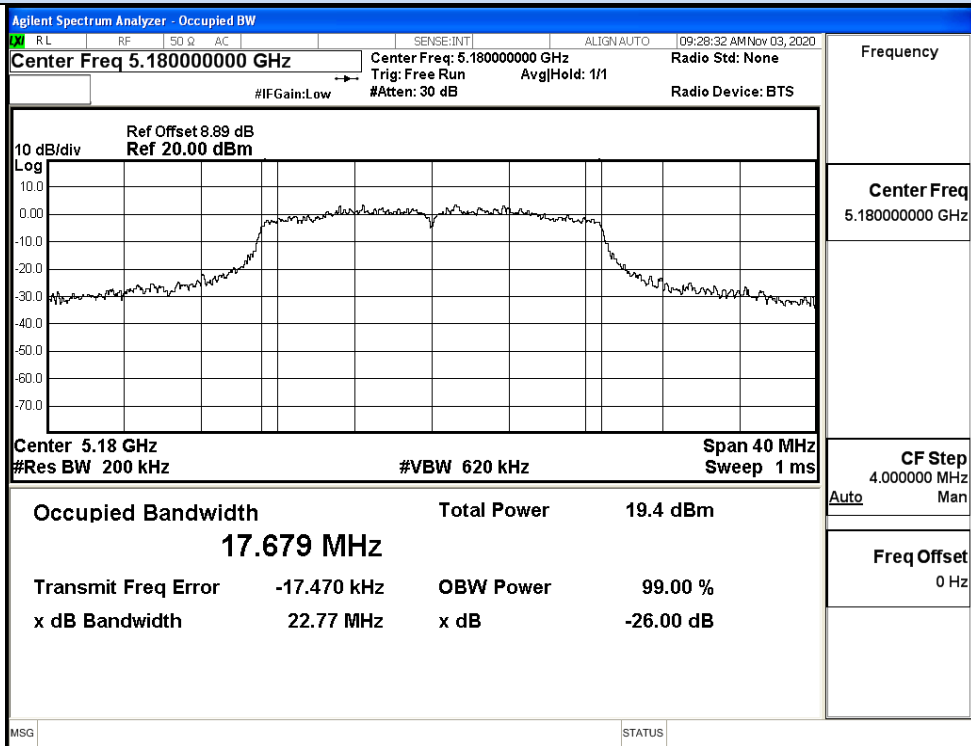
Freq Offset: 0 Hz

IEEE 802.11a / Channel 40 / 5200MHz

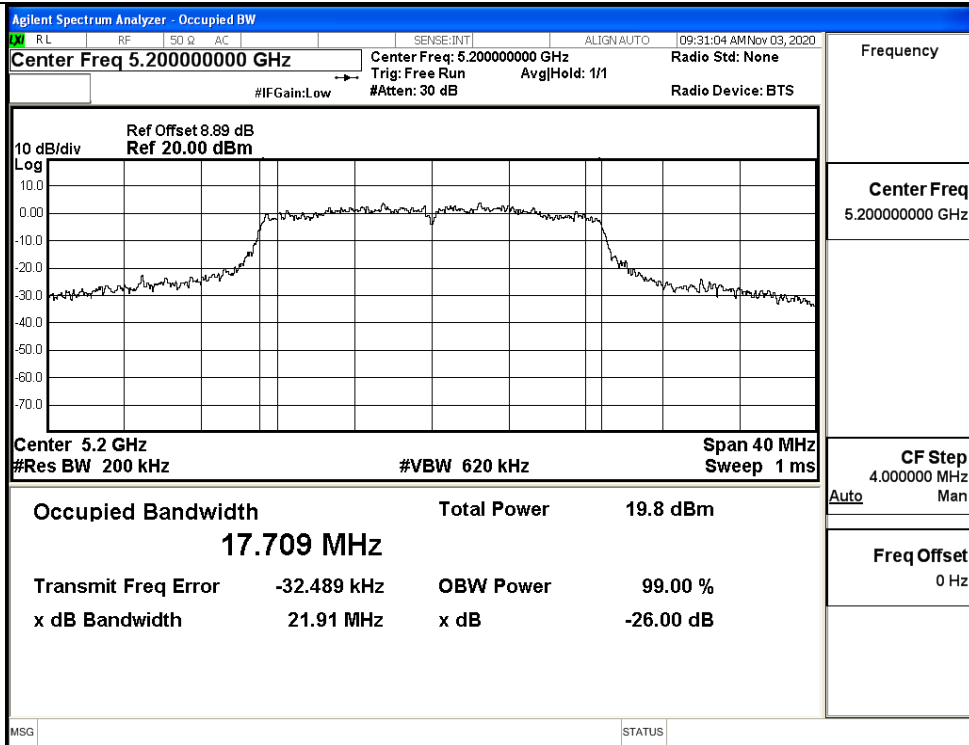


IEEE 802.11a / Channel 48 / 5240MHz

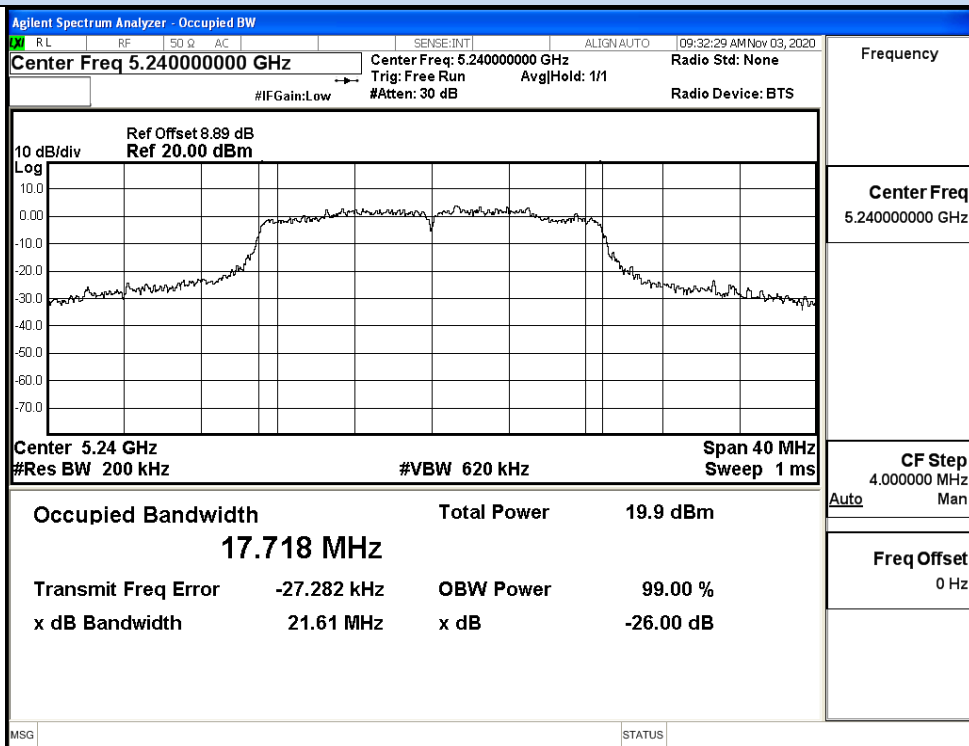
26dB Bandwidth



IEEE 802.11n20 / Channel 36 / 5180MHz



IEEE 802.11n20 / Channel 40 / 5200MHz



IEEE 802.11n20 / Channel 48 / 5240MHz

26dB Bandwidth

Agilent Spectrum Analyzer - Occupied BW

RL	RF	SO Q AC	SENSE:INT	ALIGN:AUTO	09:43:14 AM Nov 03, 2020
Center Freq 5.19000000 GHz			Center Freq: 5.19000000 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 5.19 GHz  
#Res BW 390 kHz  
#VBW 1.2 MHz  
Span 80 MHz  
Sweep 1 ms

Occupied Bandwidth	Total Power	19.9 dBm
<b>36.199 MHz</b>		
Transmit Freq Error	-27.326 kHz	OBW Power
		99.00 %
x dB Bandwidth	41.46 MHz	x dB
		-26.00 dB

Frequency: 5.19000000 GHz  
CF Step: 8.000000 MHz  
Auto Man  
Freq Offset: 0 Hz

IEEE 802.11n40 / Channel 38 / 5190MHz

Agilent Spectrum Analyzer - Occupied BW

RL	RF	SO Q AC	SENSE:INT	ALIGN:AUTO	09:53:26 AM Nov 03, 2020
Center Freq 5.23000000 GHz			Center Freq: 5.23000000 GHz	Trig: Free Run	Avg/Hold: 1/1
#IFGain:Low			#Atten: 30 dB	Radio Device: BTS	

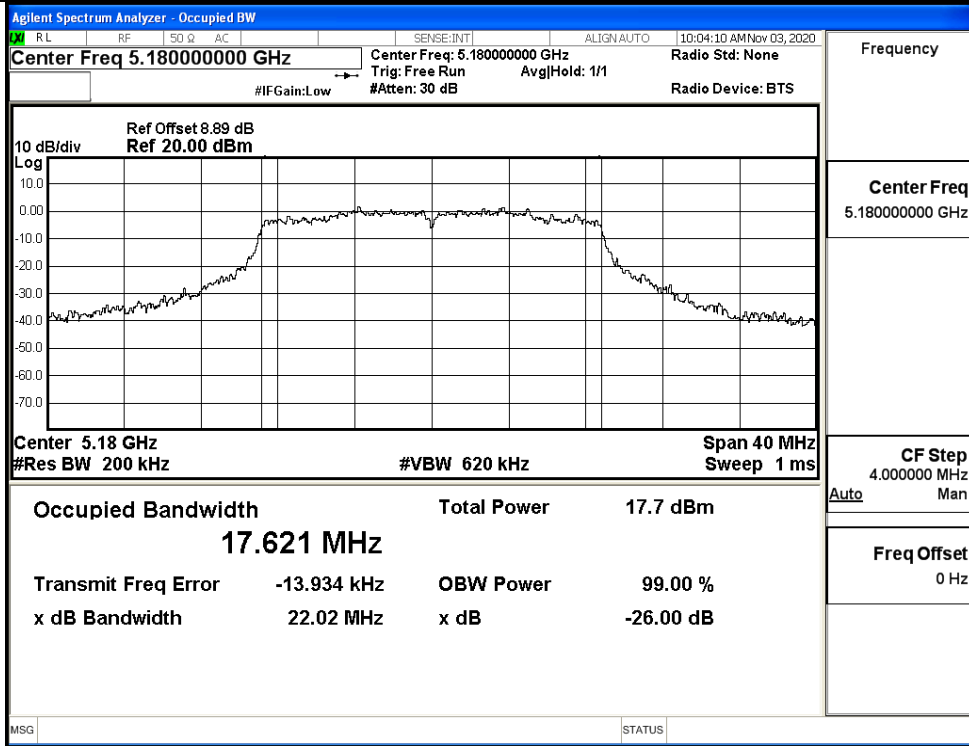
Ref Offset 8.89 dB  
Ref 20.00 dBm

Center 5.23 GHz  
#Res BW 390 kHz  
#VBW 1.2 MHz  
Span 80 MHz  
Sweep 1 ms

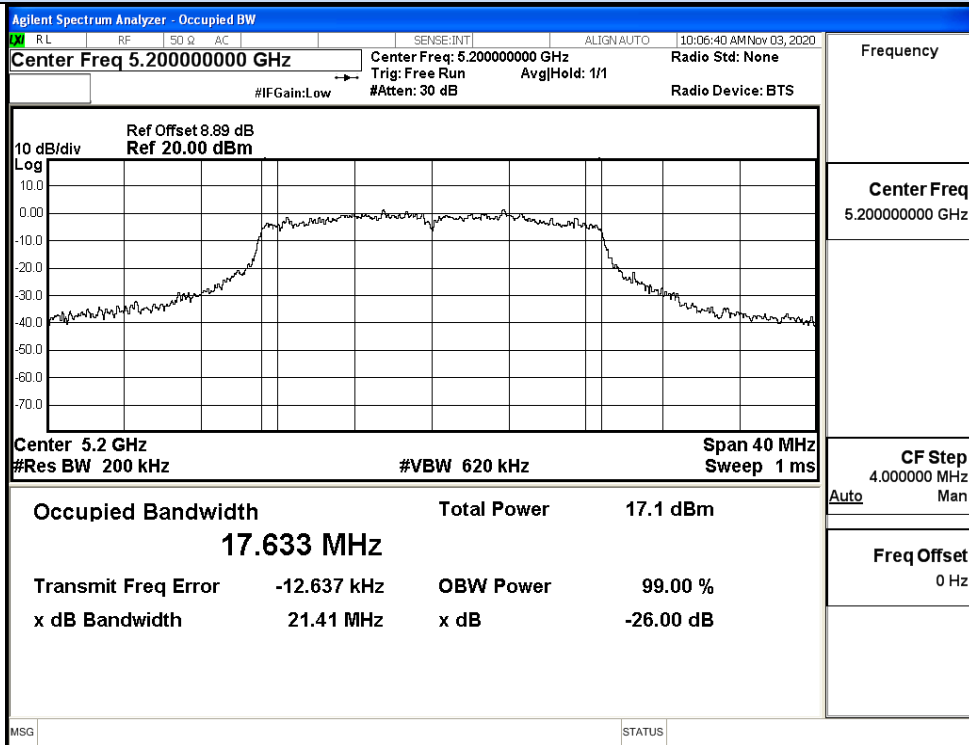
Occupied Bandwidth	Total Power	17.7 dBm
<b>36.088 MHz</b>		
Transmit Freq Error	-5.007 kHz	OBW Power
		99.00 %
x dB Bandwidth	41.48 MHz	x dB
		-26.00 dB

Frequency: 5.23000000 GHz  
CF Step: 8.000000 MHz  
Auto Man  
Freq Offset: 0 Hz

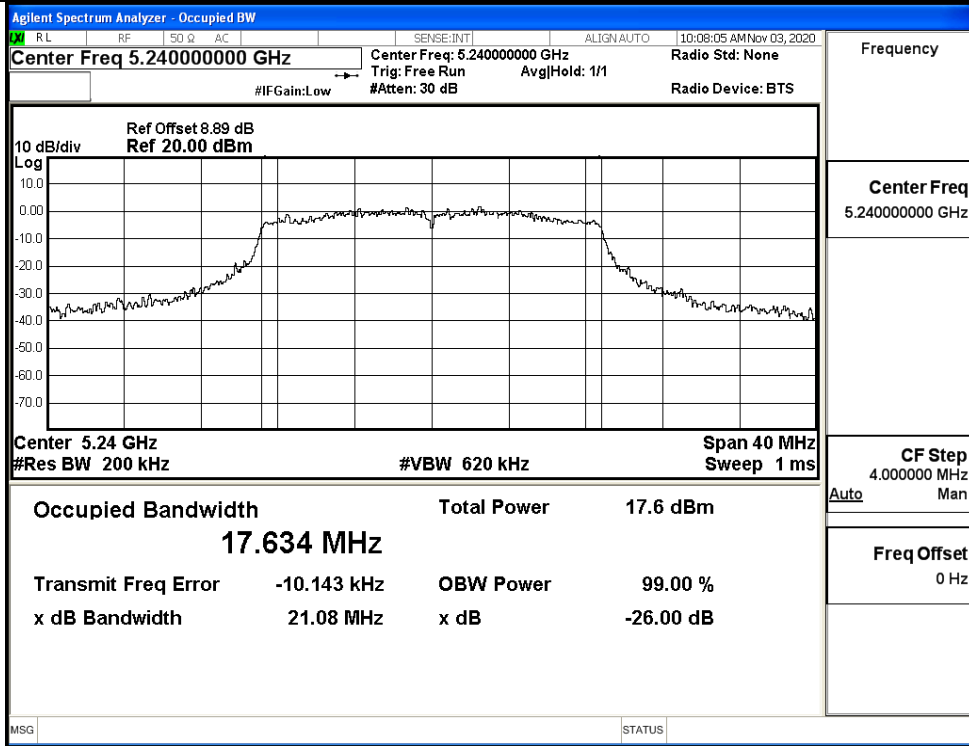
IEEE 802.11n40 / Channel 46 / 5230MHz



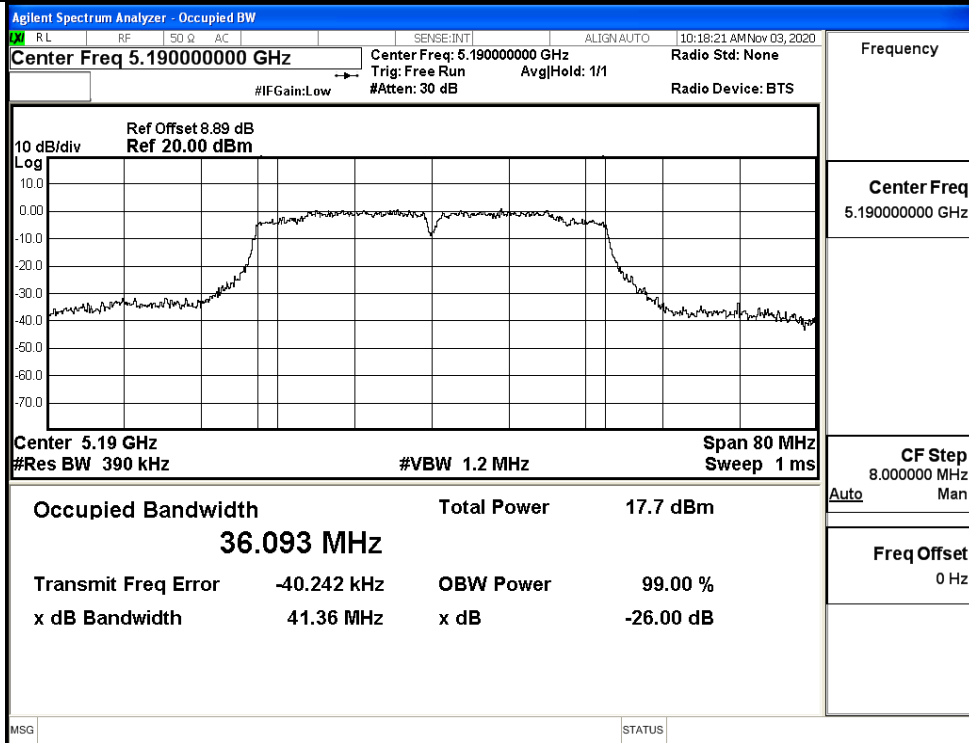
IEEE 802.11ac20 / Channel 36 / 5180MHz



IEEE 802.11ac20 / Channel 40 / 5200MHz

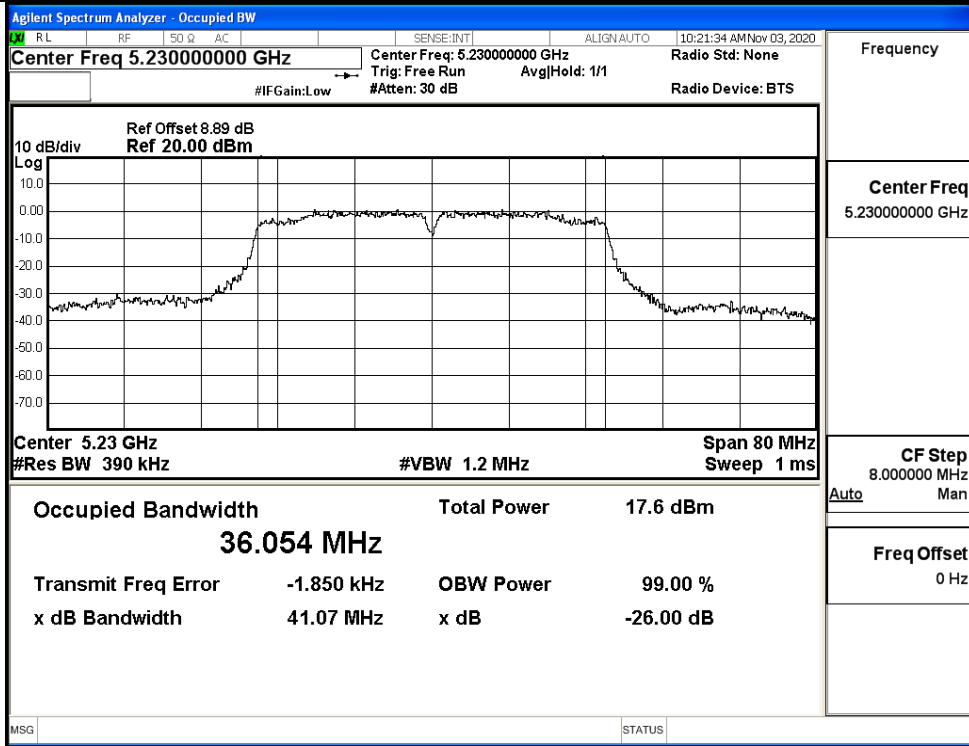


IEEE 802.11ac20 / Channel 48 / 5240MHz

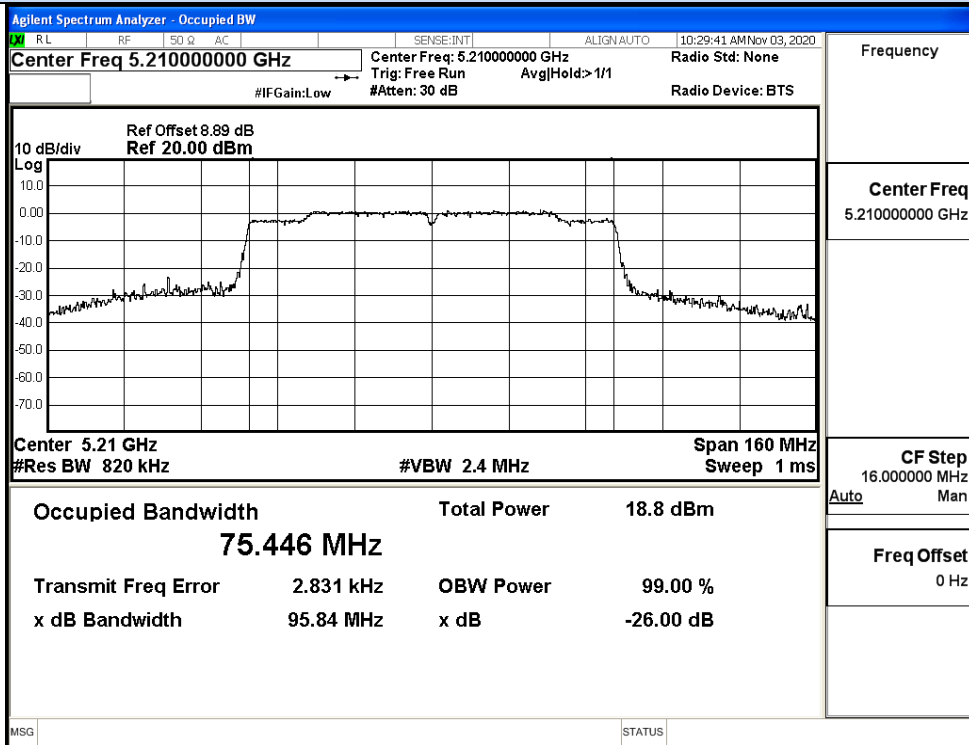


IEEE 802.11ac40 / Channel 38 / 5190MHz





IEEE 802.11ac40 / Channel 46 / 5230MHz



IEEE 802.11ac80 / Channel 42 / 5210MHz

**D.5 Undesirable Emissions Measurement  
ANT 0**

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	-49.77	2.00	0	47.49	Peak	68.20	Pass
		4500.0	-59.48	2.00	0	37.78	Average	54.00	Pass
		5150.0	-46.37	2.00	0	50.89	Peak	68.20	Pass
		5150.0	-57.31	2.00	0	39.95	Average	54.00	Pass
	48	5350.0	-48.33	2.00	0	48.93	Peak	68.20	Pass
		5350.0	-58.21	2.00	0	39.05	Average	54.00	Pass
		5460.0	-48.65	2.00	0	48.61	Peak	68.20	Pass
		5460.0	-58.99	2.00	0	38.27	Average	54.00	Pass
11N2 0 SISO	36	4500.0	-50.30	2.00	0	46.96	Peak	68.20	Pass
		4500.0	-59.47	2.00	0	37.79	Average	54.00	Pass
		5150.0	-46.24	2.00	0	51.02	Peak	68.20	Pass
		5150.0	-57.30	2.00	0	39.96	Average	54.00	Pass
	48	5350.0	-47.80	2.00	0	49.46	Peak	68.20	Pass
		5350.0	-58.26	2.00	0	39	Average	54.00	Pass
		5460.0	-48.01	2.00	0	49.25	Peak	68.20	Pass
		5460.0	-58.99	2.00	0	38.27	Average	54.00	Pass
11N4 0 SISO	38	4500.0	-49.05	2.00	0	48.21	Peak	68.20	Pass
		4500.0	-59.54	2.00	0	37.72	Average	54.00	Pass
		5150.0	-47.57	2.00	0	49.69	Peak	68.20	Pass
		5150.0	-57.36	2.00	0	39.9	Average	54.00	Pass
	46	5350.0	-47.48	2.00	0	49.78	Peak	68.20	Pass
		5350.0	-58.12	2.00	0	39.14	Average	54.00	Pass
		5460.0	-48.31	2.00	0	48.95	Peak	68.20	Pass
		5460.0	-58.70	2.00	0	38.56	Average	54.00	Pass
11A C20 SIS O	36	4500.0	-49.46	2.00	0	47.8	Peak	68.20	Pass
		4500.0	-59.48	2.00	0	37.78	Average	54.00	Pass
		5150.0	-48.38	2.00	0	48.88	Peak	68.20	Pass
		5150.0	-57.27	2.00	0	39.99	Average	54.00	Pass
	48	5350.0	-49.46	2.00	0	47.8	Peak	68.20	Pass
		5350.0	-59.48	2.00	0	37.78	Average	54.00	Pass
		5460.0	-48.38	2.00	0	48.88	Peak	68.20	Pass
		5460.0	-57.27	2.00	0	39.99	Average	54.00	Pass
11A C40 SIS O	38	4500.0	-48.69	2.00	0	48.57	Peak	68.20	Pass
		4500.0	-59.44	2.00	0	37.82	Average	54.00	Pass
		5150.0	-47.12	2.00	0	50.14	Peak	68.20	Pass
		5150.0	-57.33	2.00	0	39.93	Average	54.00	Pass
	46	5350.0	-48.08	2.00	0	49.18	Peak	68.20	Pass
		5350.0	-58.07	2.00	0	39.19	Average	54.00	Pass
		5460.0	-47.87	2.00	0	49.39	Peak	68.20	Pass
		5460.0	-58.70	2.00	0	38.56	Average	54.00	Pass
11A C80 SIS O	42	4500.0	-50.03	2.00	0	47.23	Peak	68.20	Pass
		4500.0	-59.53	2.00	0	37.73	Average	54.00	Pass
		5150.0	-46.21	2.00	0	51.05	Peak	68.20	Pass
		5150.0	-56.82	2.00	0	40.44	Average	54.00	Pass
		5350.0	-48.51	2.00	0	48.75	Peak	68.20	Pass
		5350.0	-57.73	2.00	0	39.53	Average	54.00	Pass
		5460.0	-48.73	2.00	0	48.53	Peak	68.20	Pass
		5460.0	-58.21	2.00	0	39.05	Average	54.00	Pass

**ANT 1**

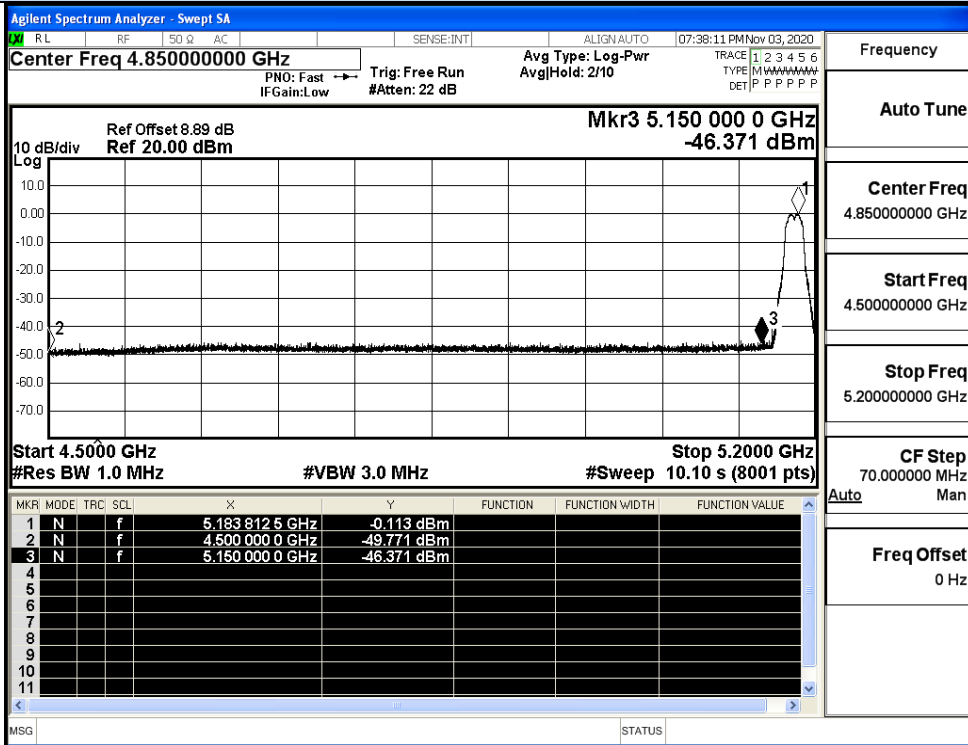
Test Mode	Channel	Frequency (MHz)	Conducted Power (dBm)	Antenna Gain (dBi)	Ground Reflection Factor (dB)	Covert Radiated E Level At 3m (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
11A	36	4500.0	-49.80	2.00	0	47.46	Peak	68.20	Pass
		4500.0	-59.63	2.00	0	37.63	Average	54.00	Pass
		5150.0	-47.86	2.00	0	49.4	Peak	68.20	Pass
		5150.0	-57.30	2.00	0	39.96	Average	54.00	Pass
	48	5350.0	-47.27	2.00	0	49.99	Peak	68.20	Pass
		5350.0	-58.23	2.00	0	39.03	Average	54.00	Pass
		5460.0	-48.12	2.00	0	49.14	Peak	68.20	Pass
11N2 0 SISO	36	4500.0	-50.12	2.00	0	47.14	Peak	68.20	Pass
		4500.0	-59.65	2.00	0	37.61	Average	54.00	Pass
		5150.0	-47.14	2.00	0	50.12	Peak	68.20	Pass
		5150.0	-57.34	2.00	0	39.92	Average	54.00	Pass
	48	5350.0	-47.85	2.00	0	49.41	Peak	68.20	Pass
		5350.0	-58.26	2.00	0	39	Average	54.00	Pass
		5460.0	-48.52	2.00	0	48.74	Peak	68.20	Pass
11N4 0 SISO	38	4500.0	-49.94	2.00	0	47.32	Peak	68.20	Pass
		4500.0	-59.69	2.00	0	37.57	Average	54.00	Pass
		5150.0	-46.65	2.00	0	50.61	Peak	68.20	Pass
		5150.0	-57.08	2.00	0	40.18	Average	54.00	Pass
	46	5350.0	-48.07	2.00	0	49.19	Peak	68.20	Pass
		5350.0	-57.98	2.00	0	39.28	Average	54.00	Pass
		5460.0	-48.23	2.00	0	49.03	Peak	68.20	Pass
11A C20 SIS O	36	4500.0	-50.16	2.00	0	47.1	Peak	68.20	Pass
		4500.0	-59.68	2.00	0	37.58	Average	54.00	Pass
		5150.0	-47.97	2.00	0	49.29	Peak	68.20	Pass
		5150.0	-57.33	2.00	0	39.93	Average	54.00	Pass
	48	4500.0	-50.16	2.00	0	47.1	Peak	68.20	Pass
		4500.0	-59.68	2.00	0	37.58	Average	54.00	Pass
		5150.0	-47.97	2.00	0	49.29	Peak	68.20	Pass
11A C40 SIS O	38	4500.0	-48.95	2.00	0	48.31	Peak	68.20	Pass
		4500.0	-59.79	2.00	0	37.47	Average	54.00	Pass
		5150.0	-47.37	2.00	0	49.89	Peak	68.20	Pass
		5150.0	-57.25	2.00	0	40.01	Average	54.00	Pass
	46	5350.0	-48.40	2.00	0	48.86	Peak	68.20	Pass
		5350.0	-58.02	2.00	0	39.24	Average	54.00	Pass
		5460.0	-49.20	2.00	0	48.06	Peak	68.20	Pass
11A C80 SIS O	42	4500.0	-49.88	2.00	0	47.38	Peak	68.20	Pass
		4500.0	-59.82	2.00	0	37.44	Average	54.00	Pass
		5150.0	-46.59	2.00	0	50.67	Peak	68.20	Pass
		5150.0	-56.31	2.00	0	40.95	Average	54.00	Pass
	42	5350.0	-47.28	2.00	0	49.98	Peak	68.20	Pass
		5350.0	-57.61	2.00	0	39.65	Average	54.00	Pass
		5460.0	-48.24	2.00	0	49.02	Peak	68.20	Pass
		5460.0	-58.39	2.00	0	38.87	Average	54.00	Pass

**Combined Ant\_0 and Ant\_1**

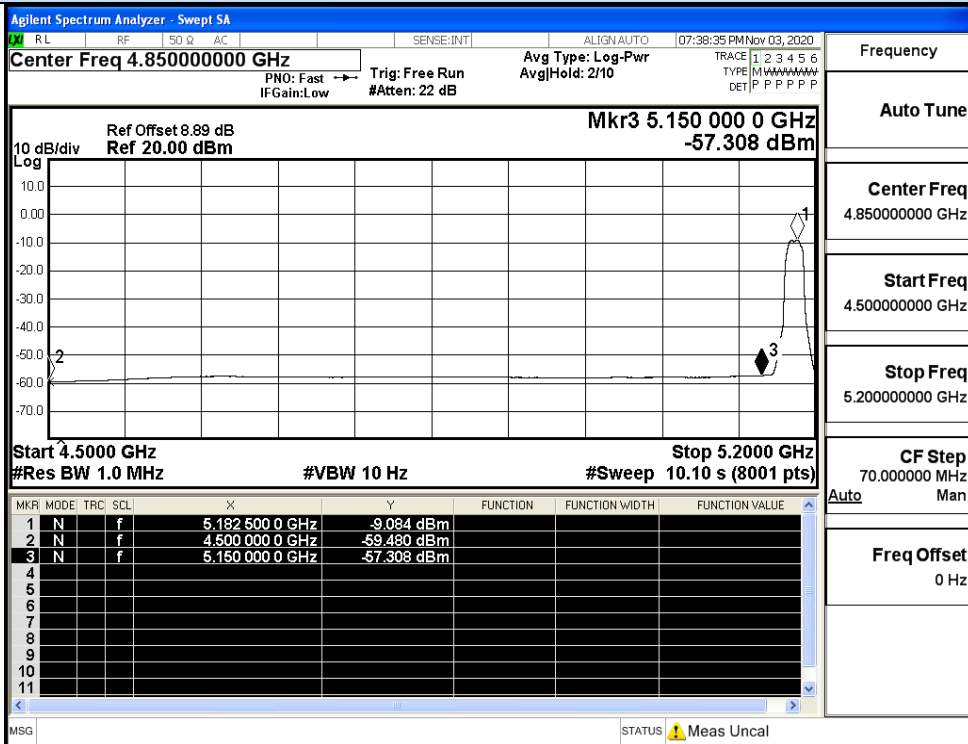
Test Mode	Channel	Frequency (MHz)	Conducted Power (dBm)			Antenna Gain (dBi)	Ground Reflection Factor (dB)	Covert Radiated E Level At 3m (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
			Ant0	Ant1	Sum						
11N20 SISO	36	4500.0	-50.30	-50.12	-47.20	3.75	0	51.81	Peak	74.00	Pass
		4500.0	-59.47	-59.65	-56.55	3.75	0	42.46	Average	54.00	Pass
		5150.0	-46.24	-47.14	-43.66	3.75	0	55.35	Peak	74.00	Pass
		5150.0	-57.30	-57.34	-54.31	3.75	0	44.7	Average	54.00	Pass
	48	5350.0	-47.80	-47.85	-44.81	3.75	0	54.2	Peak	74.00	Pass
		5350.0	-58.26	-58.26	-55.25	3.75	0	43.76	Average	54.00	Pass
		5460.0	-48.01	-48.52	-45.25	3.75	0	53.76	Peak	74.00	Pass
		5460.0	-58.99	-59.15	-56.06	3.75	0	42.95	Average	54.00	Pass
11N40 SISO	38	4500.0	-49.05	-49.94	-46.46	3.75	0	52.55	Peak	74.00	Pass
		4500.0	-59.54	-59.69	-56.60	3.75	0	42.41	Average	54.00	Pass
		5150.0	-47.57	-46.65	-44.08	3.75	0	54.93	Peak	74.00	Pass
		5150.0	-57.36	-57.08	-54.21	3.75	0	44.8	Average	54.00	Pass
	46	5350.0	-47.48	-48.07	-44.75	3.75	0	54.26	Peak	74.00	Pass
		5350.0	-58.12	-57.98	-55.04	3.75	0	43.97	Average	54.00	Pass
		5460.0	-48.31	-48.23	-45.26	3.75	0	53.75	Peak	74.00	Pass
		5460.0	-58.70	-58.85	-55.76	3.75	0	43.25	Average	54.00	Pass
11AC20 SISO	36	4500.0	-49.46	-50.16	-46.79	3.75	0	52.22	Peak	74.00	Pass
		4500.0	-59.48	-59.68	-56.57	3.75	0	42.44	Average	54.00	Pass
		5150.0	-48.38	-47.97	-45.16	3.75	0	53.85	Peak	74.00	Pass
		5150.0	-57.27	-57.33	-54.29	3.75	0	44.72	Average	54.00	Pass
	48	5350.0	-49.46	-50.16	-46.79	3.75	0	52.22	Peak	74.00	Pass
		5350.0	-59.48	-59.68	-56.57	3.75	0	42.44	Average	54.00	Pass
		5460.0	-48.38	-47.97	-45.16	3.75	0	53.85	Peak	74.00	Pass
		5460.0	-57.27	-57.33	-54.29	3.75	0	44.72	Average	54.00	Pass
11AC40 SISO	38	4500.0	-48.69	-48.95	-45.81	3.75	0	53.2	Peak	74.00	Pass
		4500.0	-59.44	-59.79	-56.60	3.75	0	42.41	Average	54.00	Pass
		5150.0	-47.12	-47.37	-44.23	3.75	0	54.78	Peak	74.00	Pass
		5150.0	-57.33	-57.25	-54.28	3.75	0	44.73	Average	54.00	Pass
	46	5350.0	-48.08	-48.40	-45.23	3.75	0	53.78	Peak	74.00	Pass
		5350.0	-58.07	-58.02	-55.03	3.75	0	43.98	Average	54.00	Pass
		5460.0	-47.87	-49.20	-45.47	3.75	0	53.54	Peak	74.00	Pass
		5460.0	-58.70	-58.92	-55.80	3.75	0	43.21	Average	54.00	Pass
11AC80 SISO	42	4500.0	-50.03	-49.88	-46.94	3.75	0	52.07	Peak	74.00	Pass
		5150.0	-59.53	-59.82	-56.66	3.75	0	42.35	Average	54.00	Pass
		4500.0	-46.21	-46.59	-43.39	3.75	0	55.62	Peak	74.00	Pass
		5150.0	-56.82	-56.31	-53.55	3.75	0	45.46	Average	54.00	Pass
		5350.0	-48.51	-47.28	-44.84	3.75	0	54.17	Peak	74.00	Pass
		5460.0	-57.73	-57.61	-54.66	3.75	0	44.35	Average	54.00	Pass
		5350.0	-48.73	-48.24	-45.47	3.75	0	53.54	Peak	74.00	Pass
		5460.0	-58.21	-58.39	-55.29	3.75	0	43.72	Average	54.00	Pass

ANT 0

Undesirable Emissions Measurement

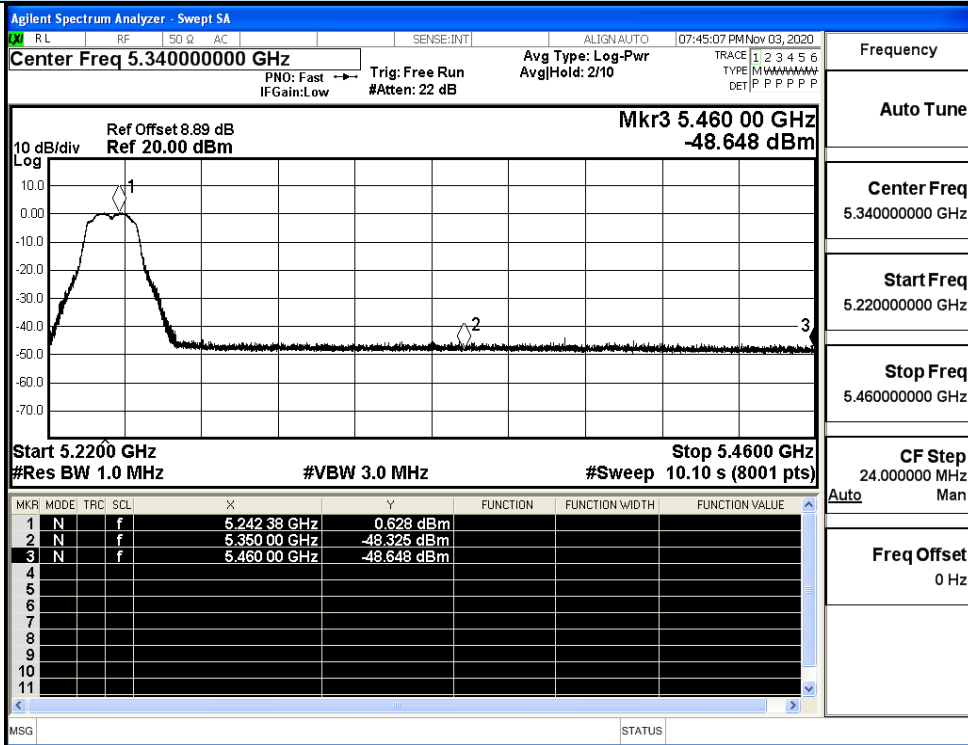


IEEE 802.11a / Channel 36 / 5180MHz / Peak

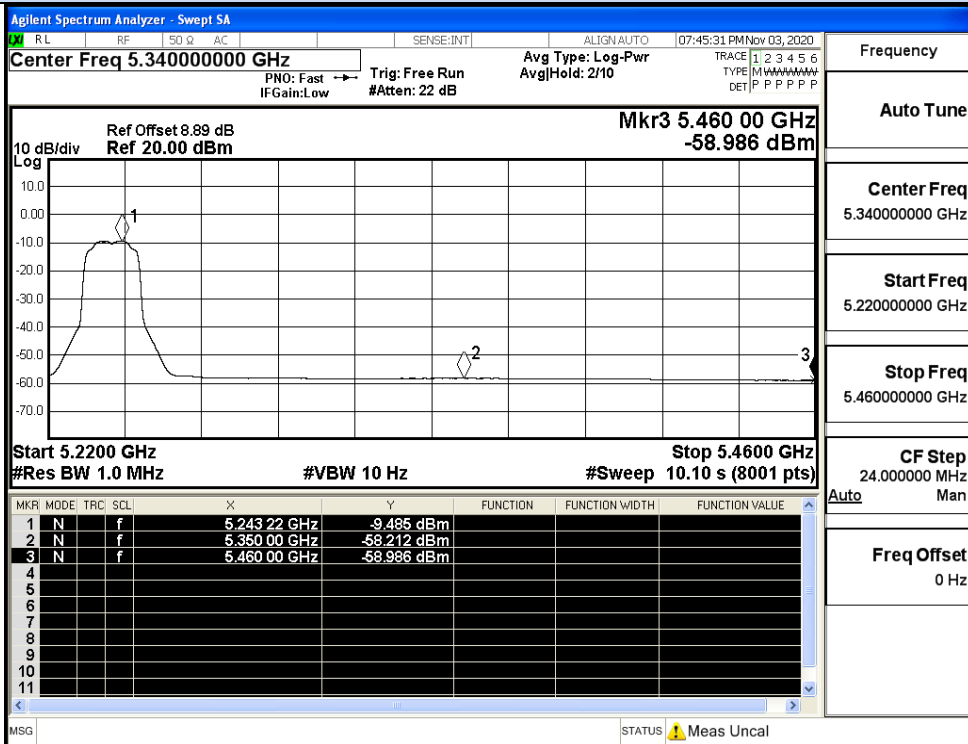


IEEE 802.11a / Channel 36 / 5180MHz / Average

Undesirable Emissions Measurement

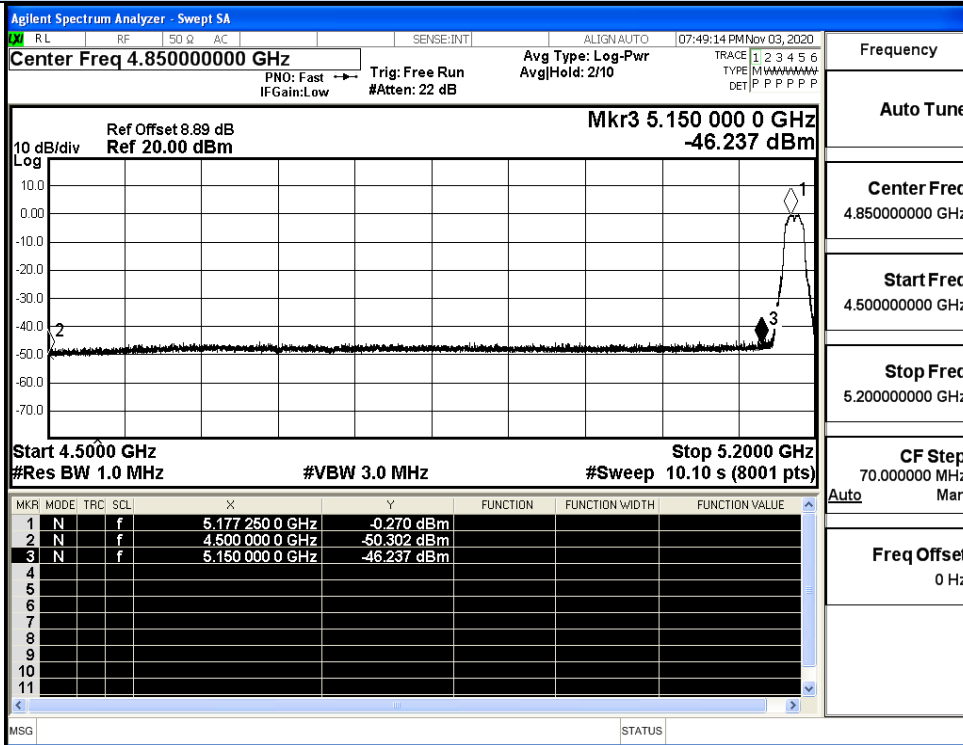


IEEE 802.11a / Channel 48 / 5240MHz / Peak

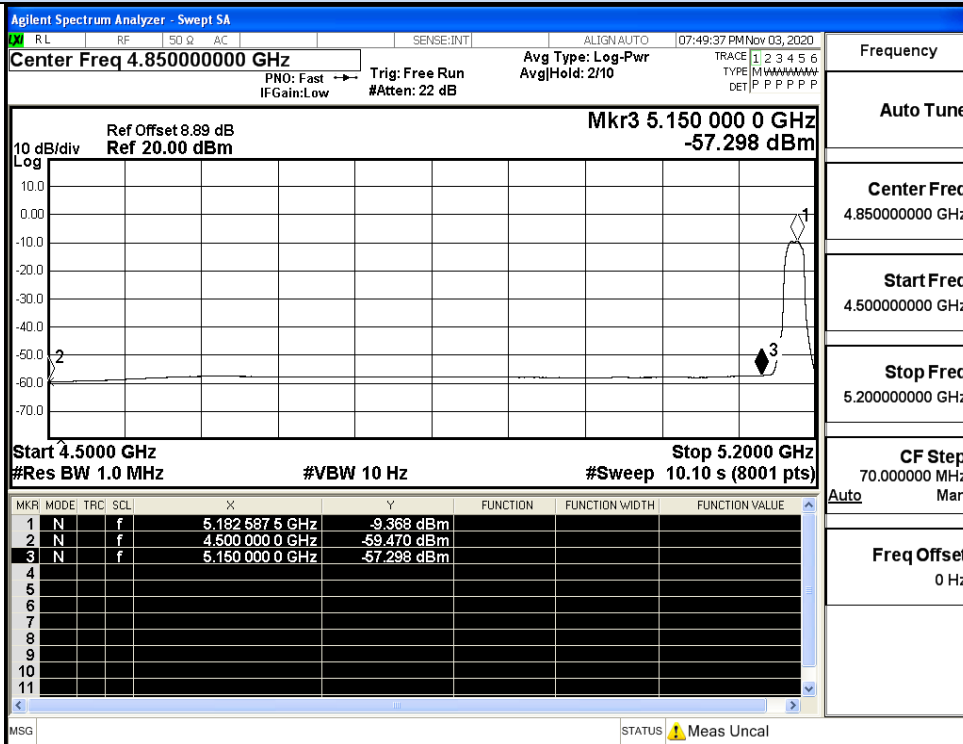


IEEE 802.11a / Channel 48 / 5240MHz / Average

Undesirable Emissions Measurement

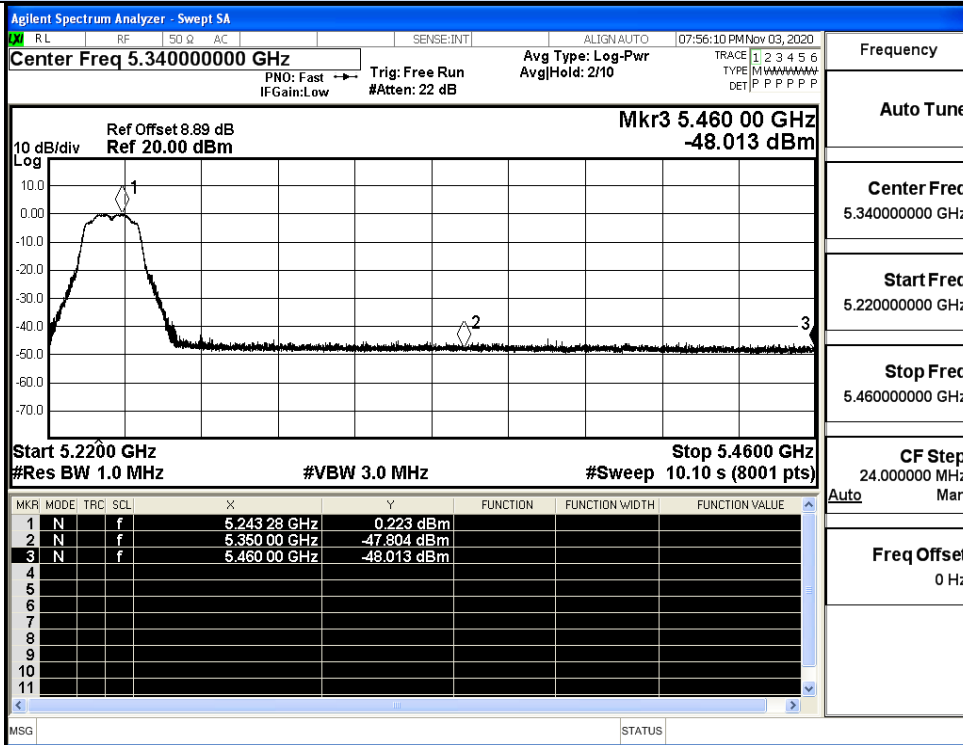


IEEE 802.11n20 / Channel 36 / 5180MHz / Peak

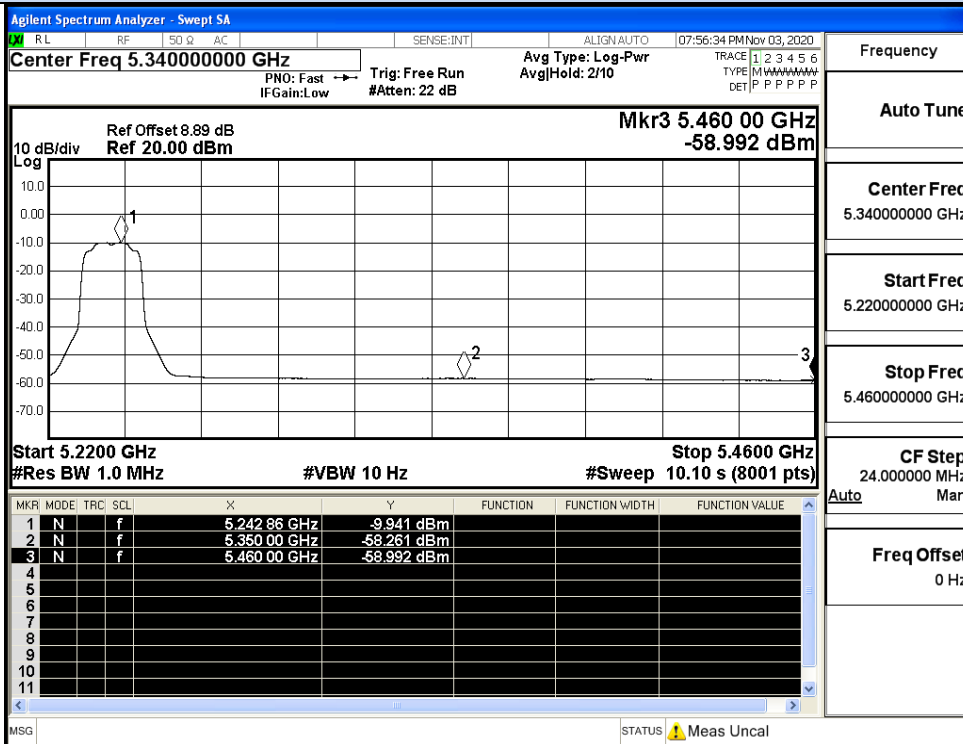


IEEE 802.11n20 / Channel 36 / 5180MHz / Average

Undesirable Emissions Measurement



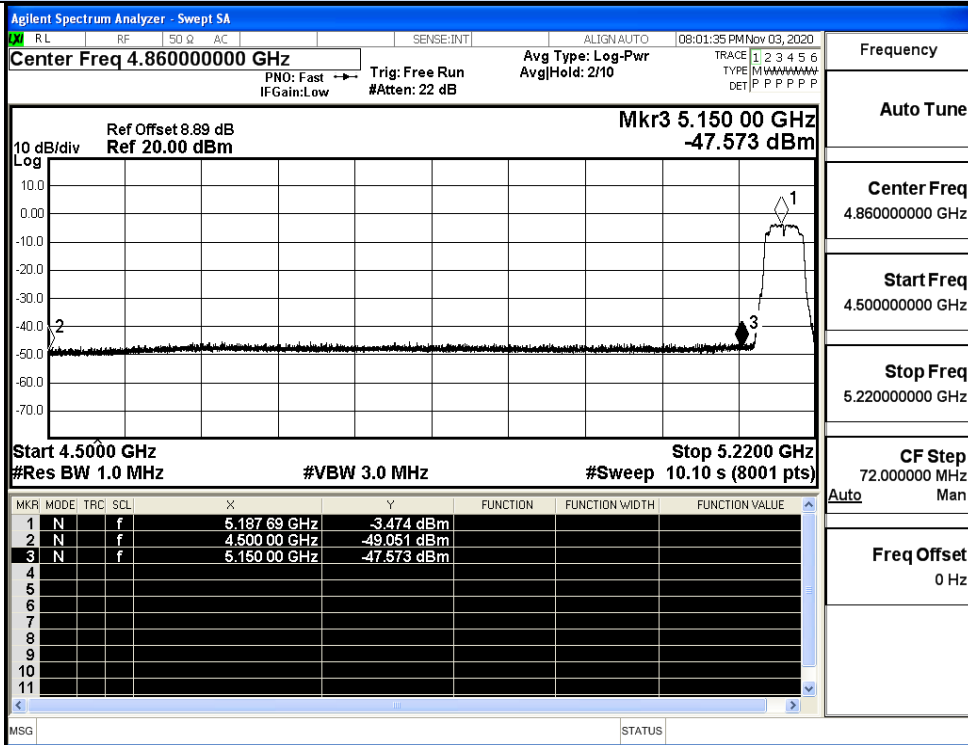
IEEE 802.11n20 / Channel 48 / 5240MHz / Peak



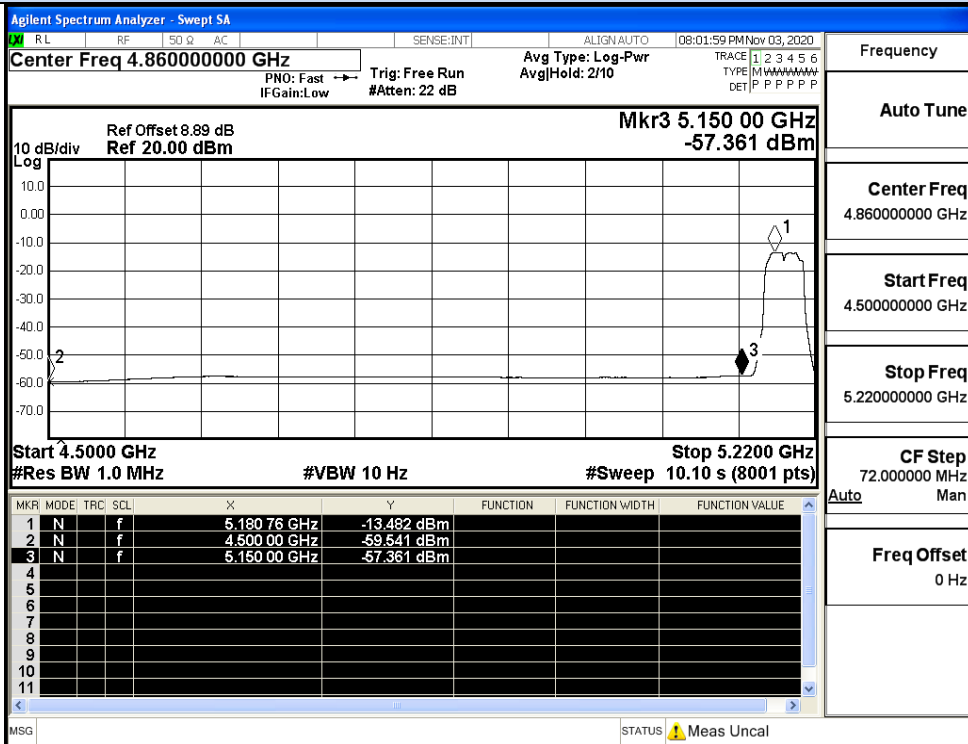
IEEE 802.11n20 / Channel 48 / 5240MHz / Average



Undesirable Emissions Measurement

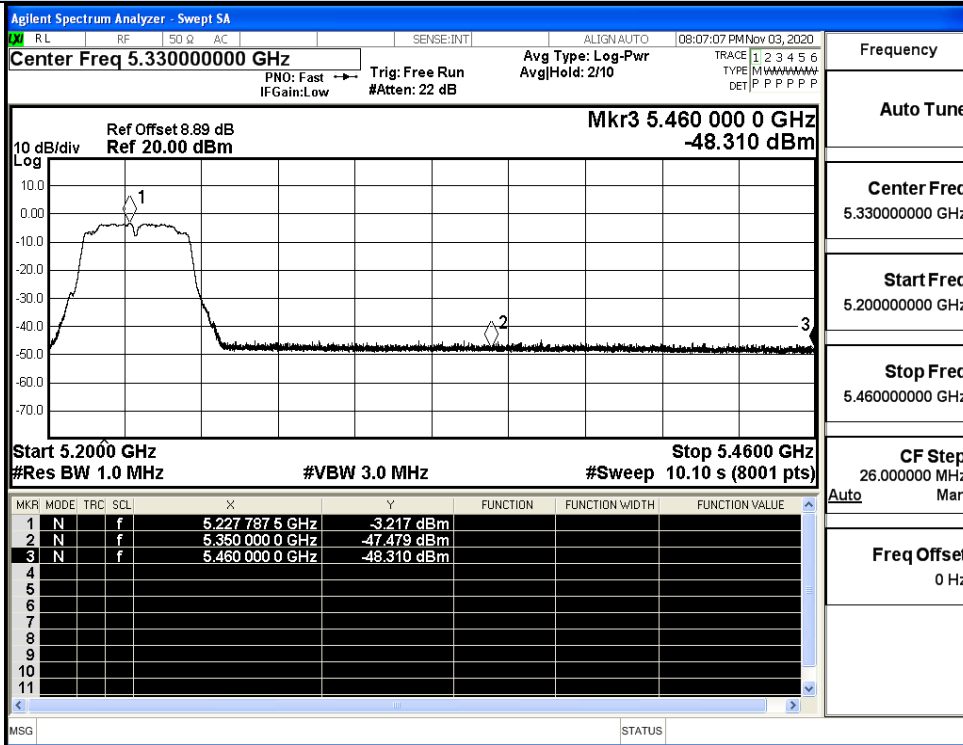


IEEE 802.11n40 / Channel 38 / 5190MHz / Peak

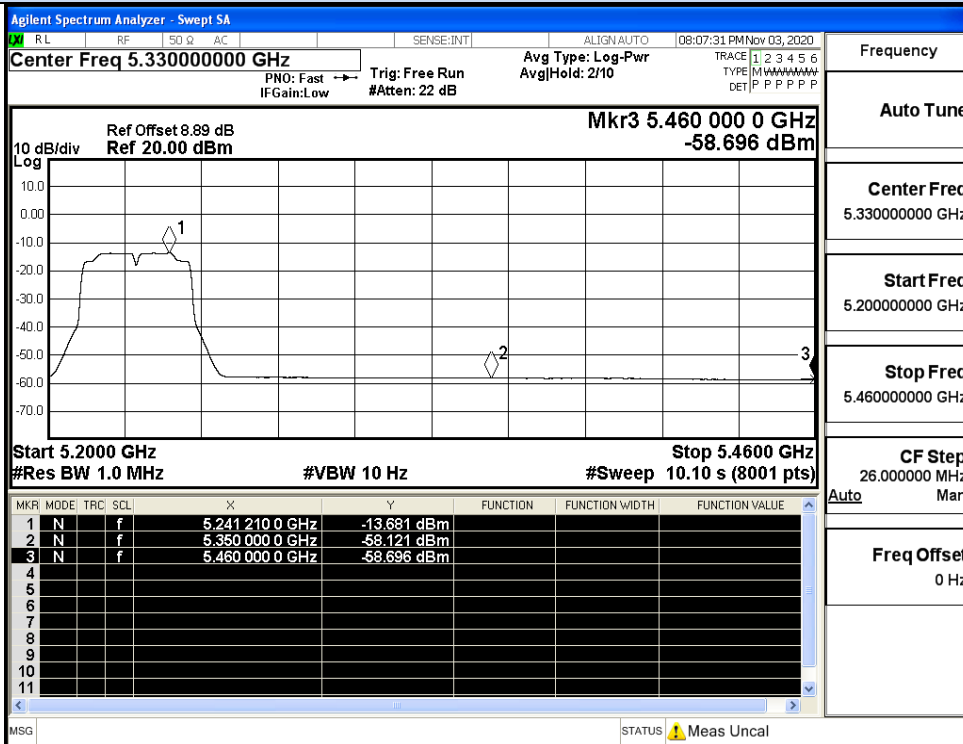


IEEE 802.11n40 / Channel 38 / 5190MHz / Average

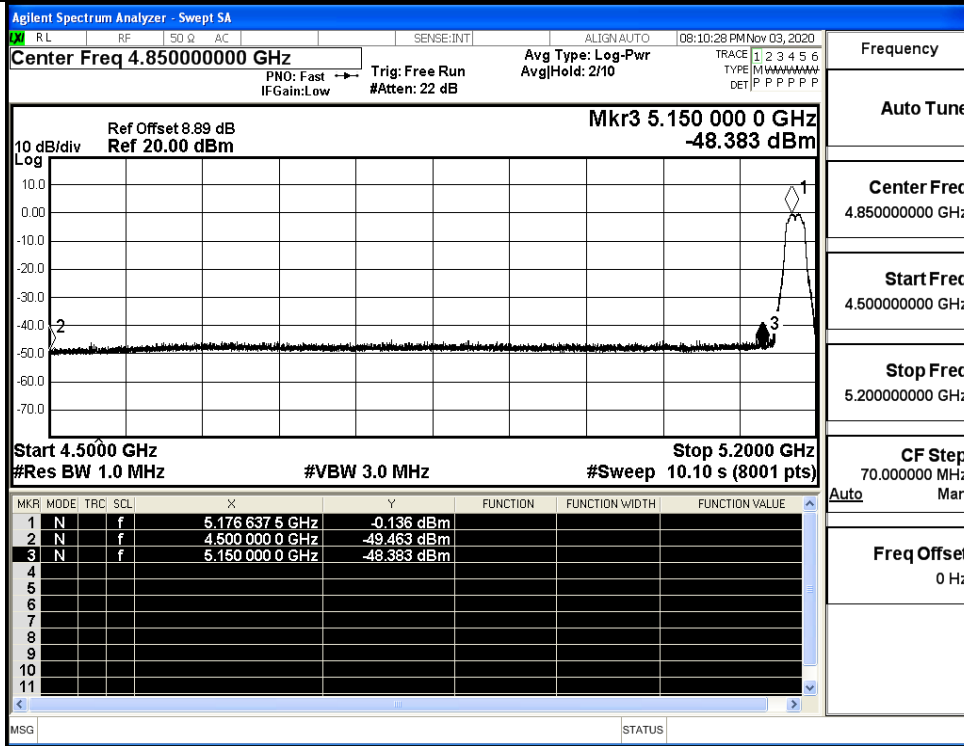
Undesirable Emissions Measurement



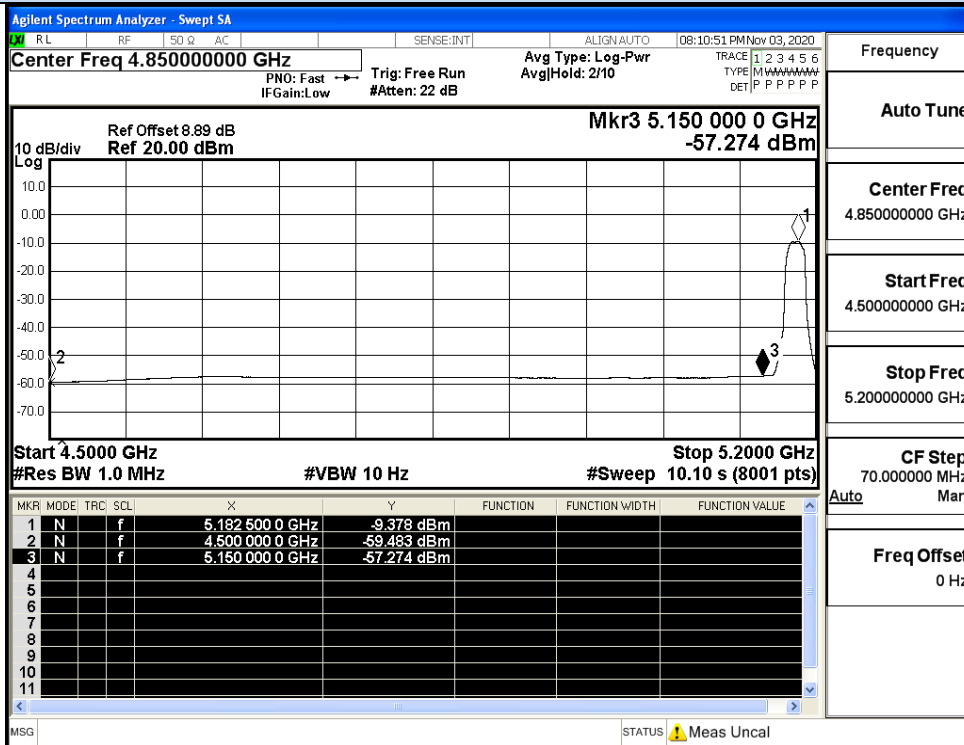
IEEE 802.11n40 / Channel 46 / 5230MHz / Peak



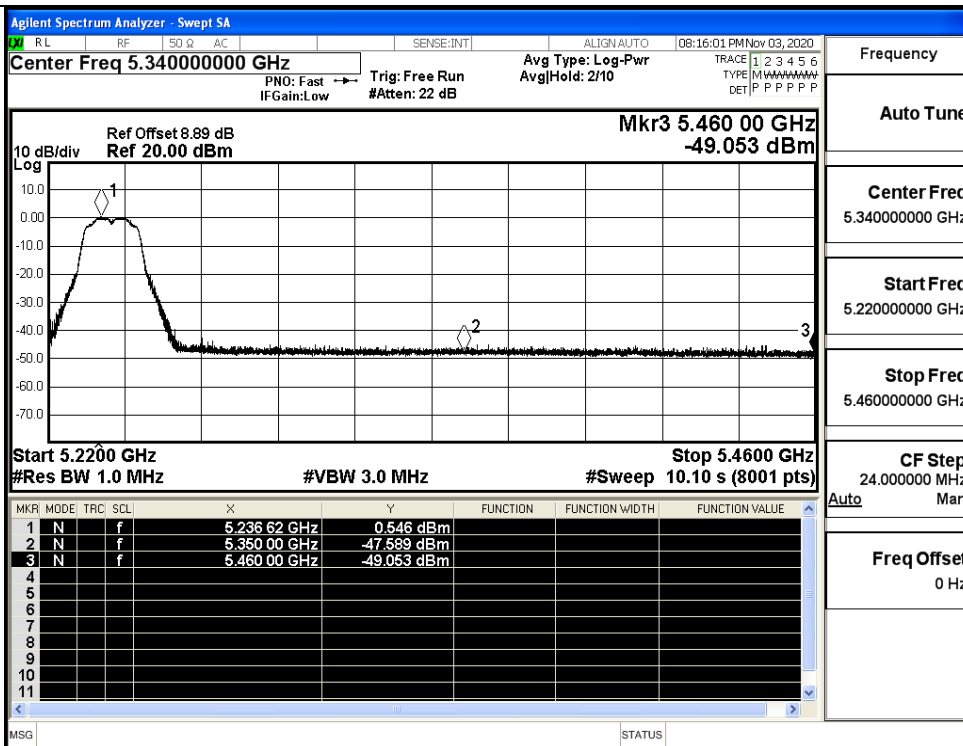
IEEE 802.11n40 / Channel 46 / 5230MHz / Average



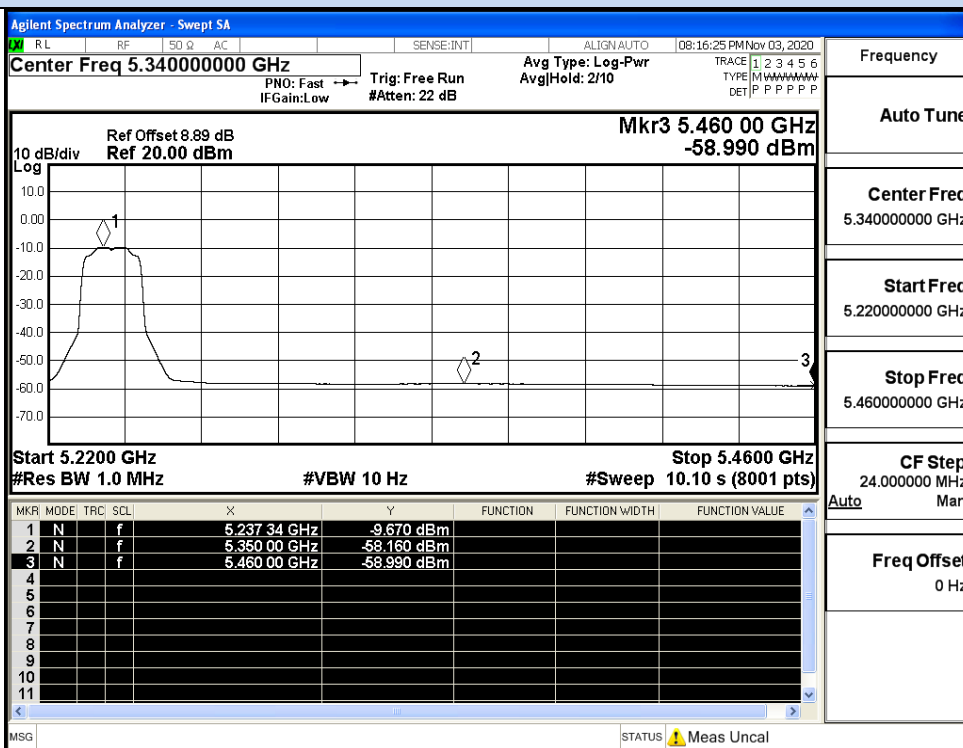
IEEE 802.11ac20 / Channel 36 / 5180MHz / Peak



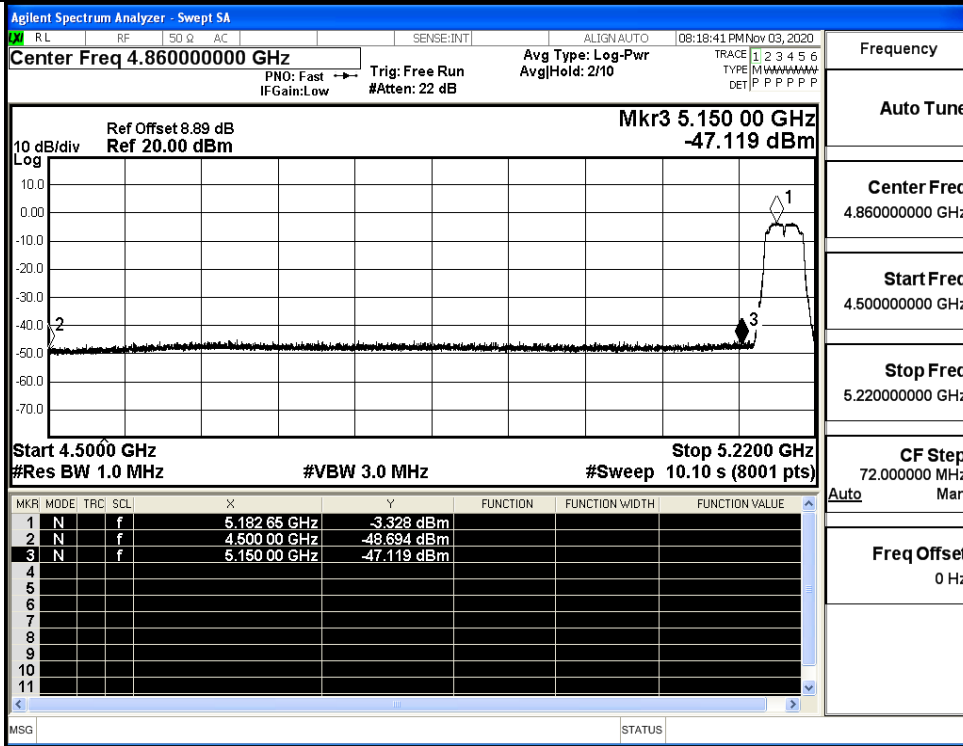
IEEE 802.11ac20 / Channel 36 / 5180MHz / Average



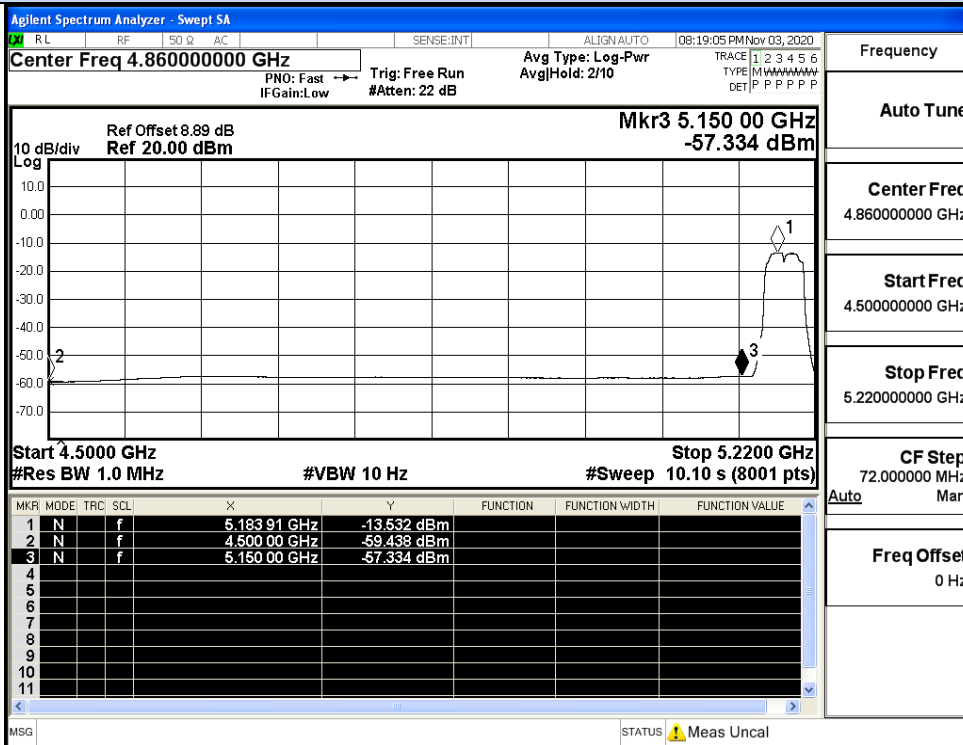
IEEE 802.11ac20 / Channel 48 / 5240MHz / Peak



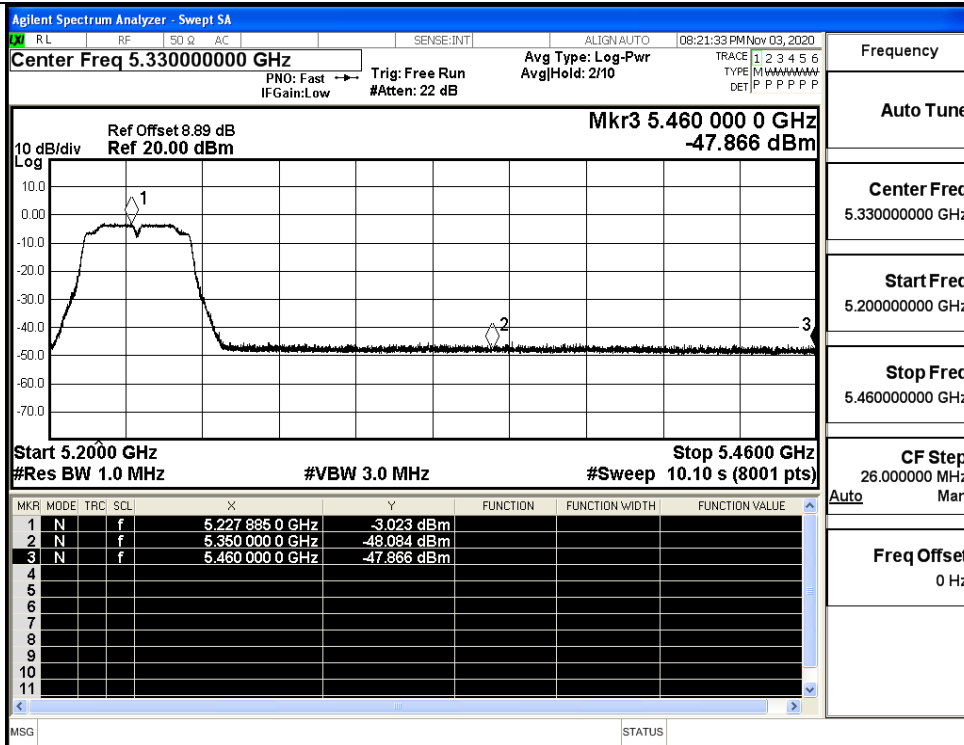
IEEE 802.11ac20 / Channel 48 / 5240MHz / Average



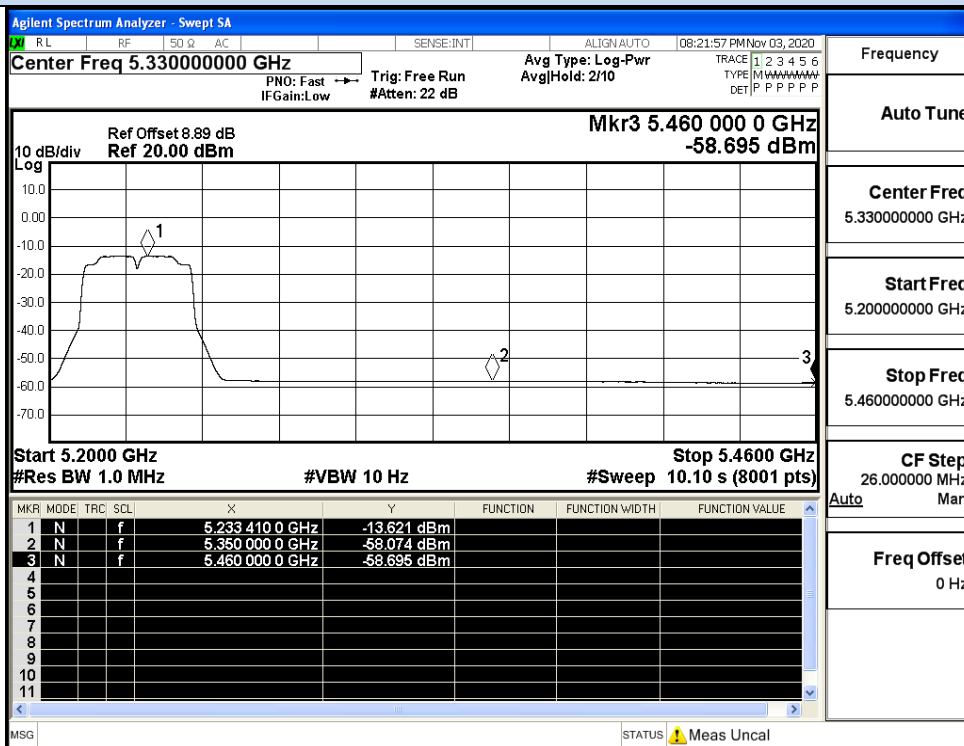
IEEE 802.11ac40 / Channel 38/ 5190MHz / Peak



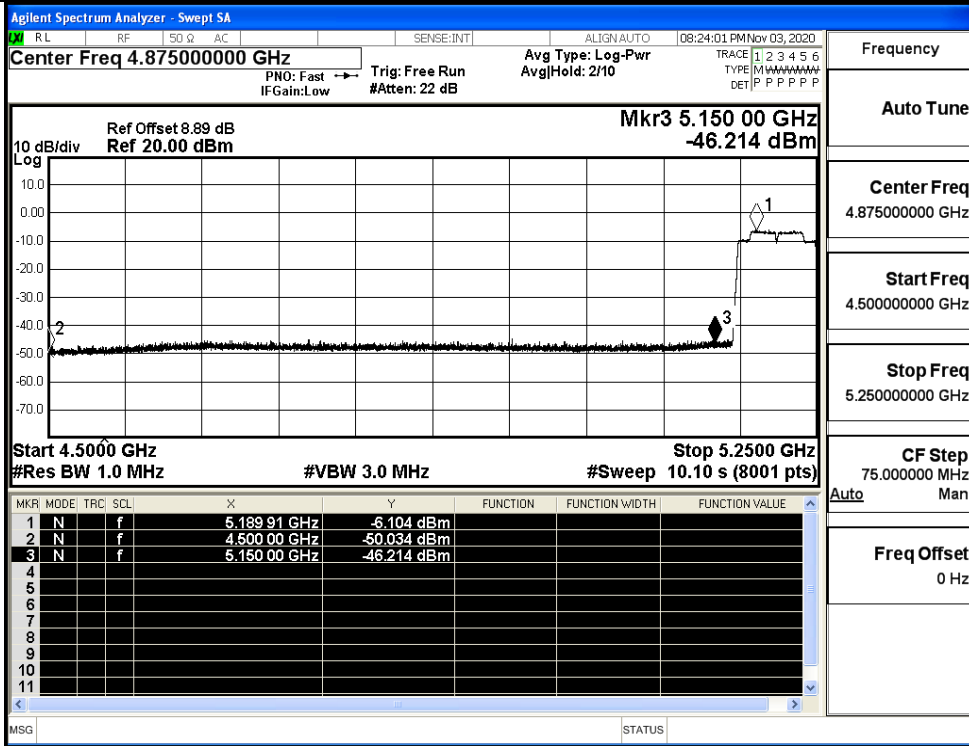
IEEE 802.11ac40 / Channel 38 / 5190MHz / Average



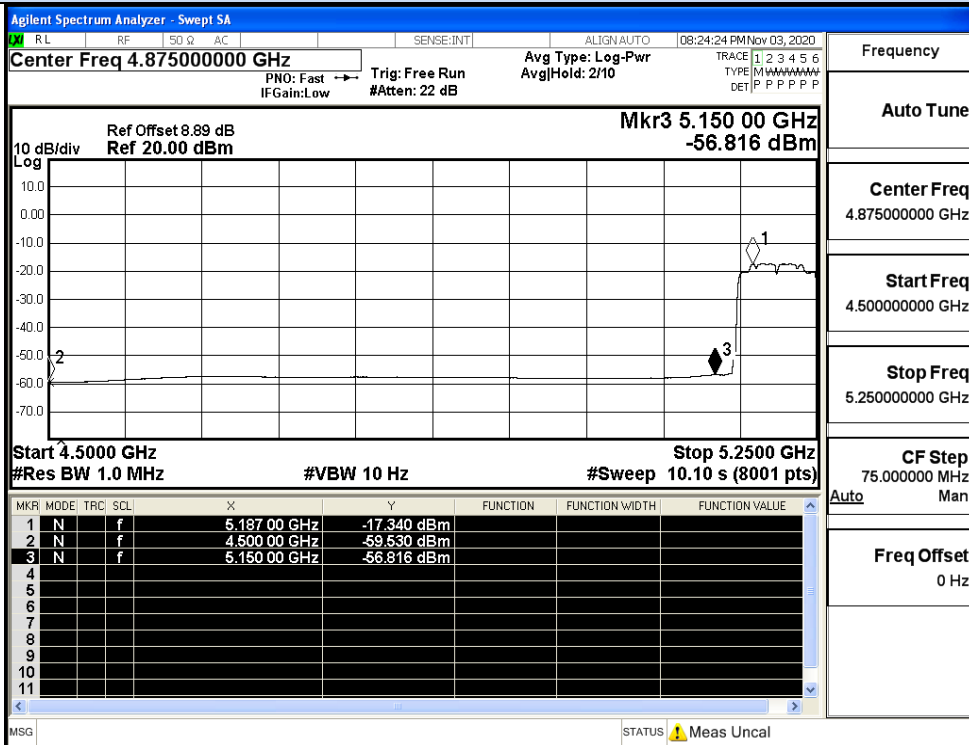
IEEE 802.11ac40 / Channel 46/ 5230MHz / Peak



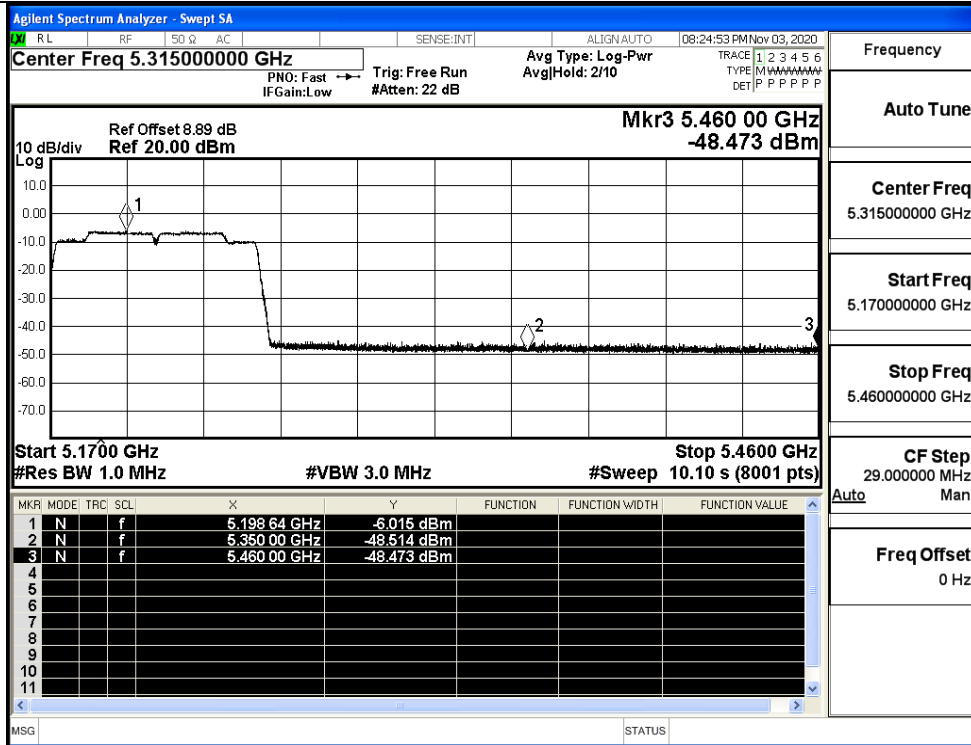
IEEE 802.11ac40 / Channel 46 / 5230MHz / Average



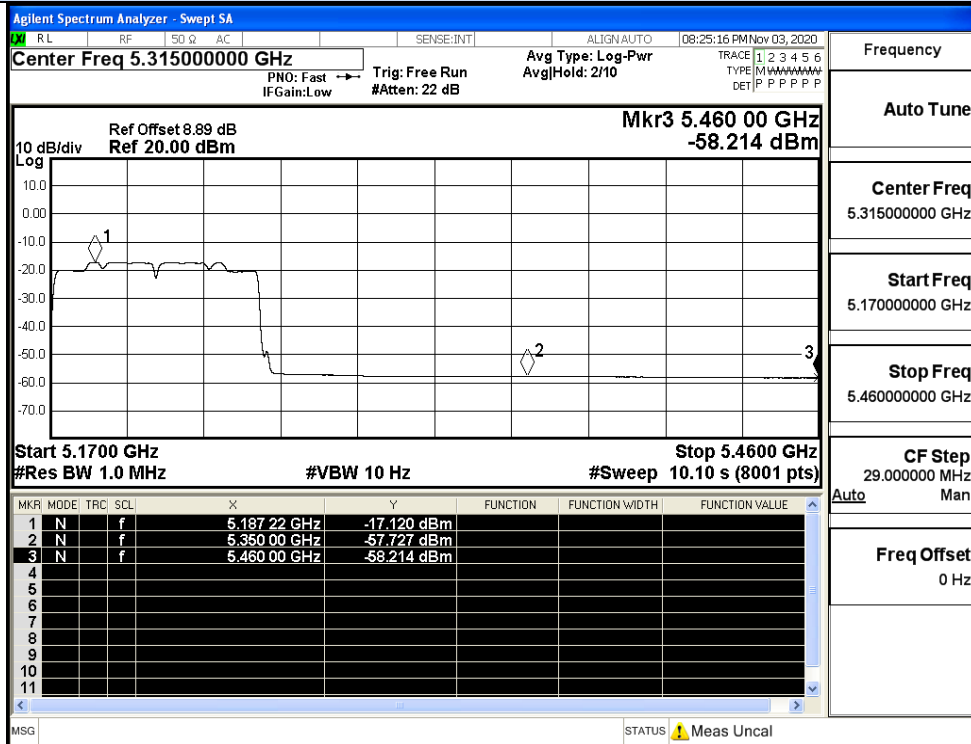
IEEE 802.11ac80 / Channel 42 / 5210MHz / Peak



IEEE 802.11ac80 / Channel 42 / 5210MHz / Average



IEEE 802.11ac80 / Channel 42 / 5210MHz / Peak

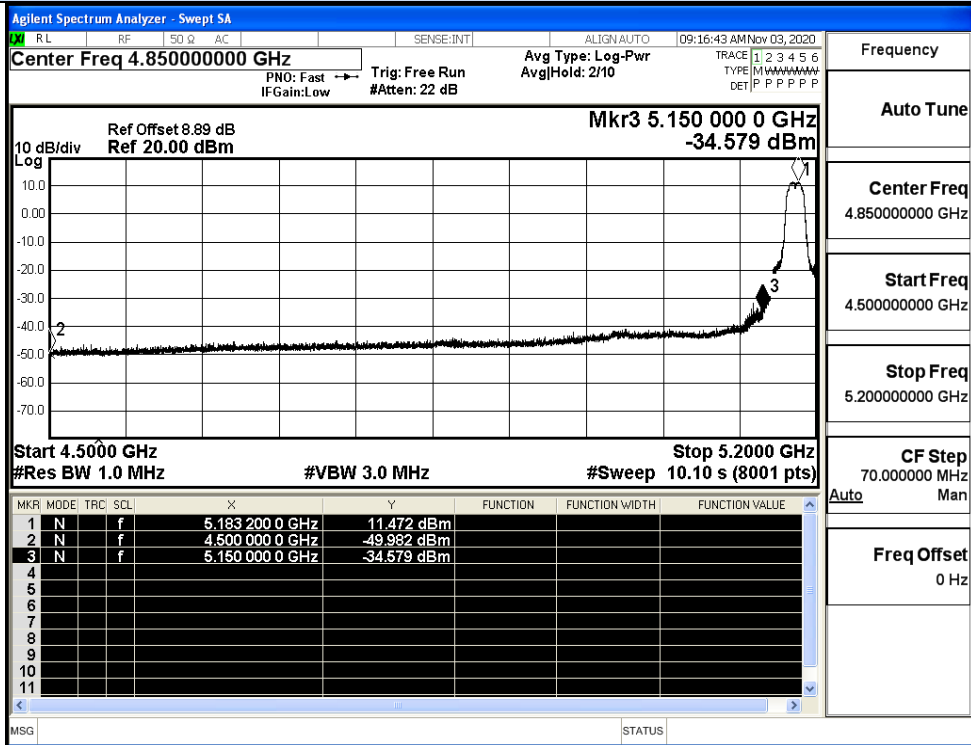


IEEE 802.11ac80 / Channel 42 / 5210MHz / Average

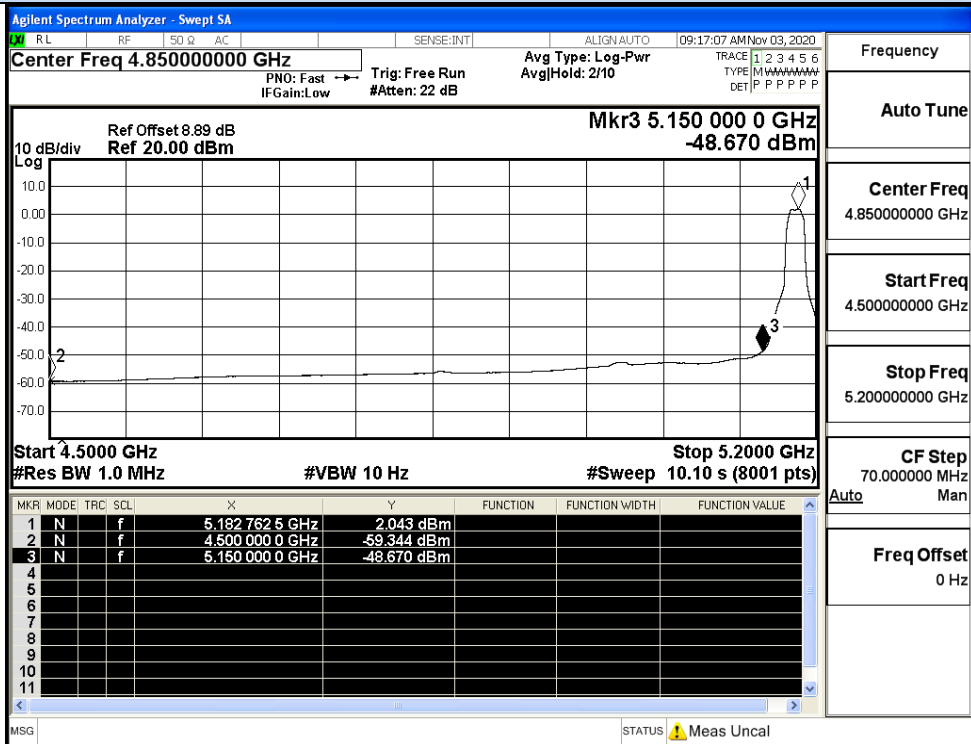


ANT 1

Undesirable Emissions Measurement

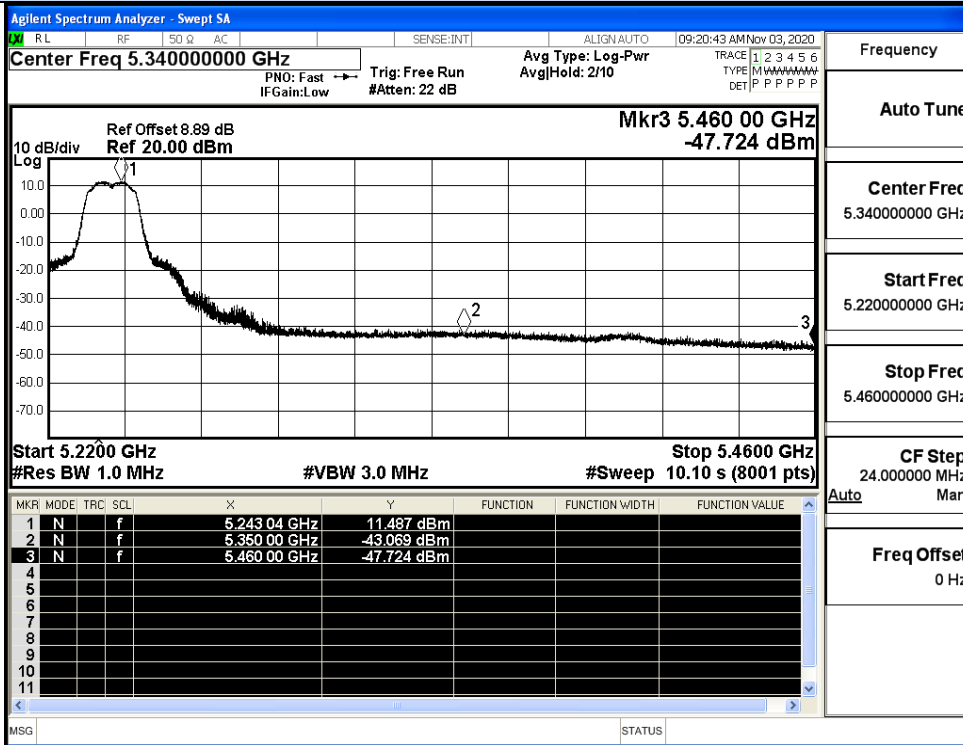


IEEE 802.11a / Channel 36 / 5180MHz / Peak

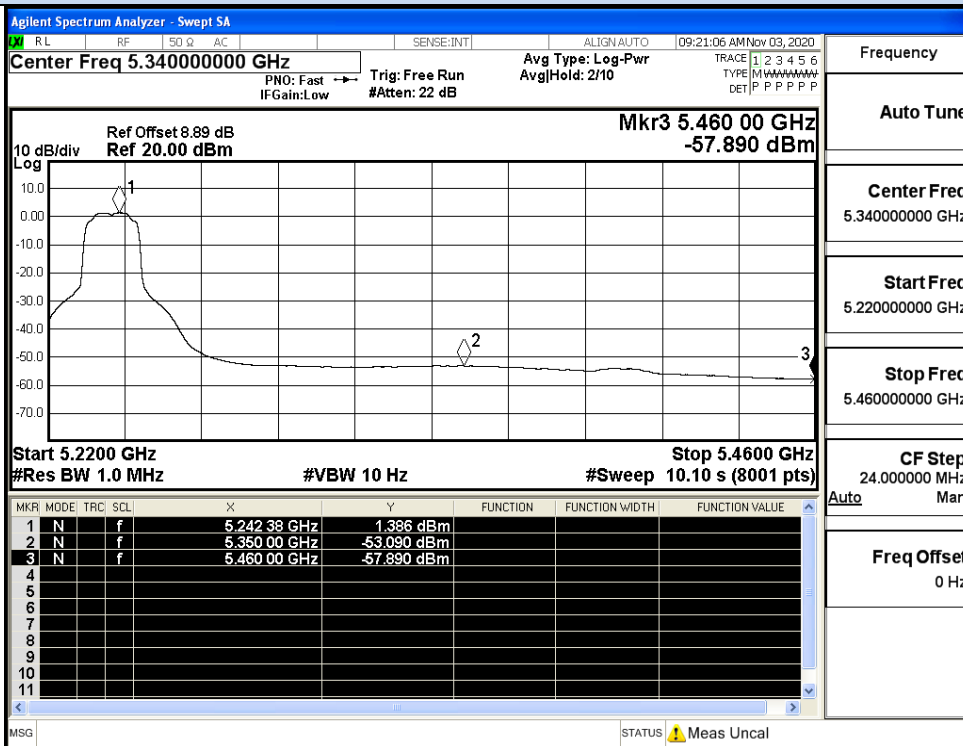


IEEE 802.11a / Channel 36 / 5180MHz / Average

Undesirable Emissions Measurement

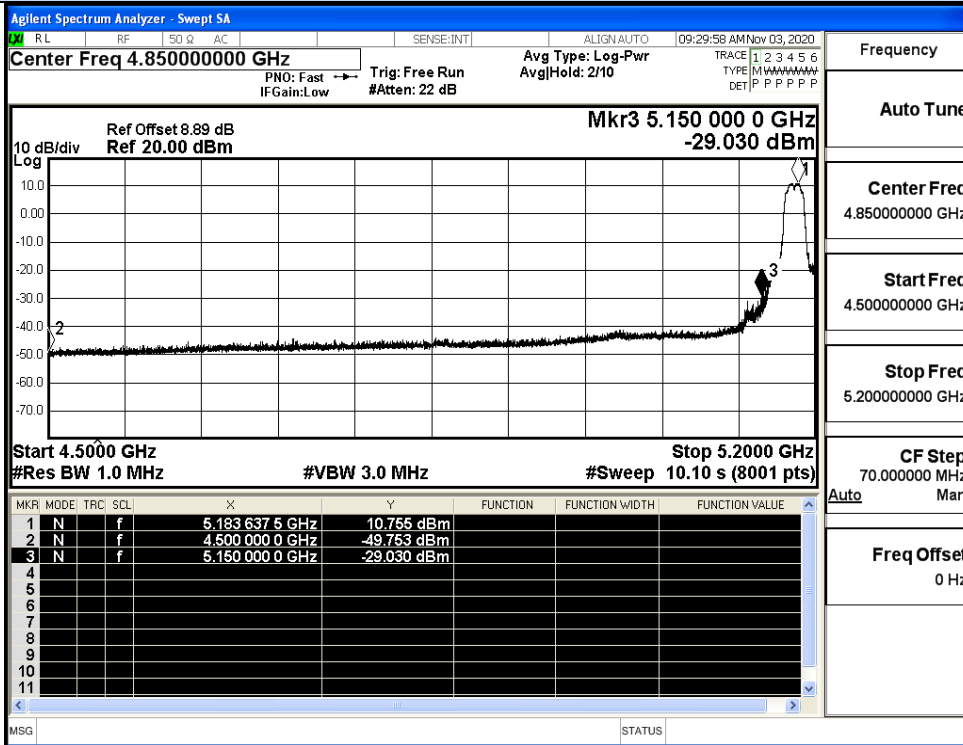


IEEE 802.11a / Channel 48 / 5240MHz / Peak

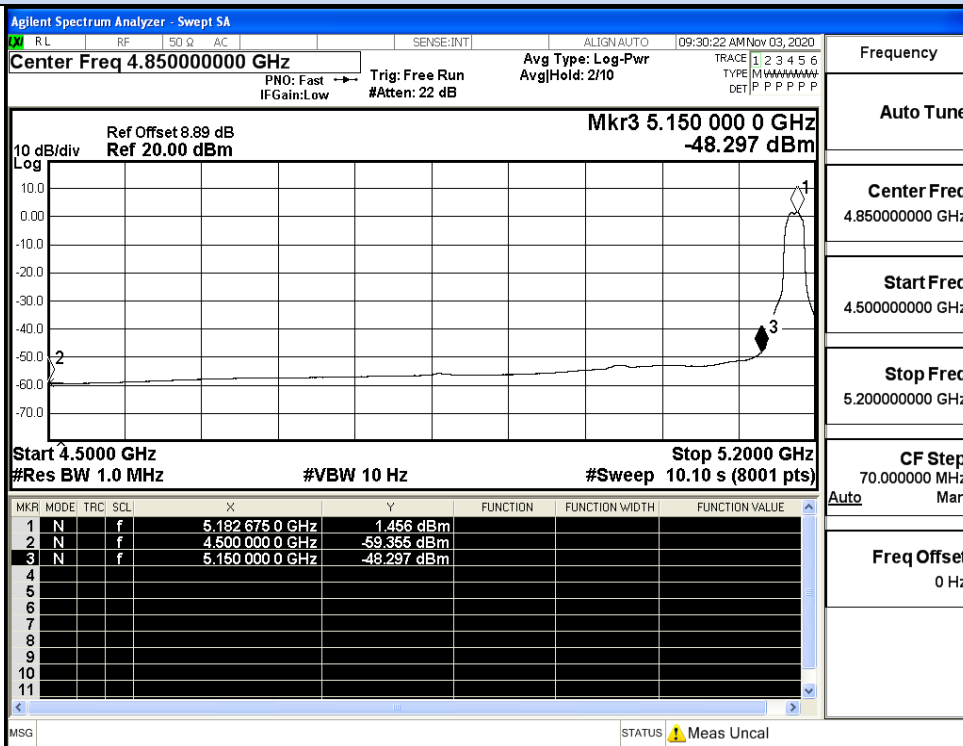


IEEE 802.11a / Channel 48 / 5240MHz / Average

Undesirable Emissions Measurement

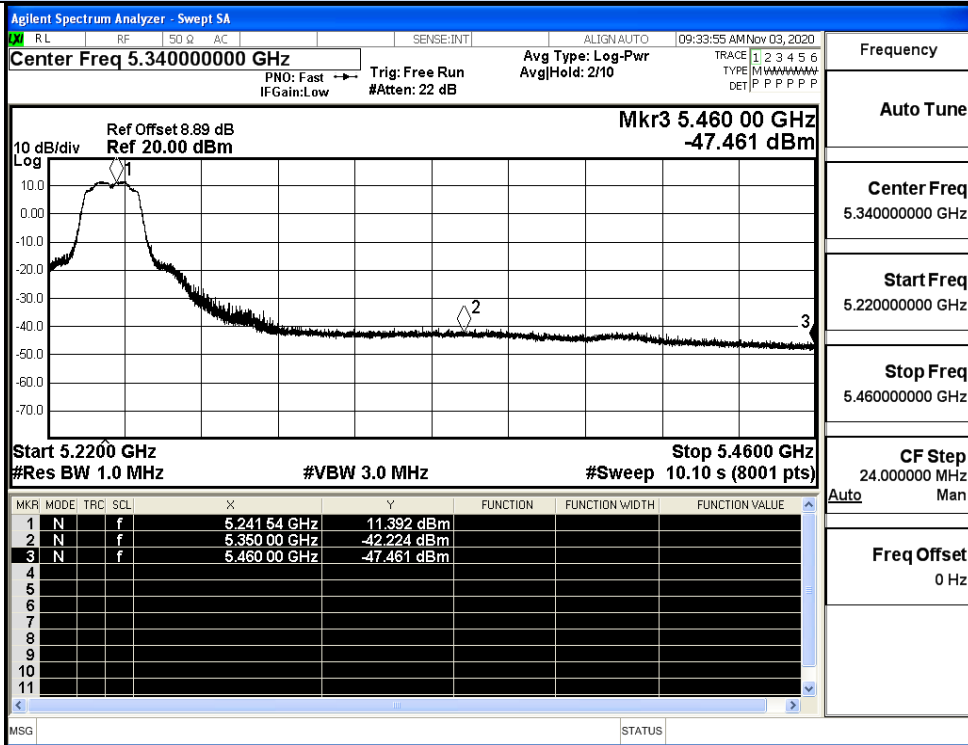


IEEE 802.11n20 / Channel 36 / 5180MHz / Peak

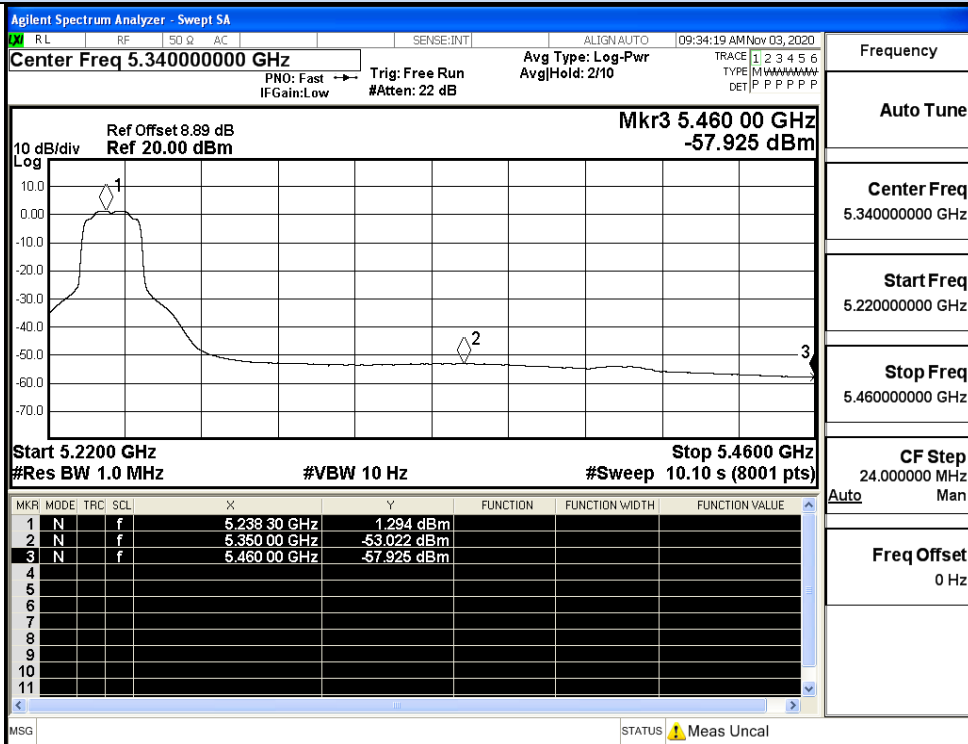


IEEE 802.11n20 / Channel 36 / 5180MHz / Average

Undesirable Emissions Measurement

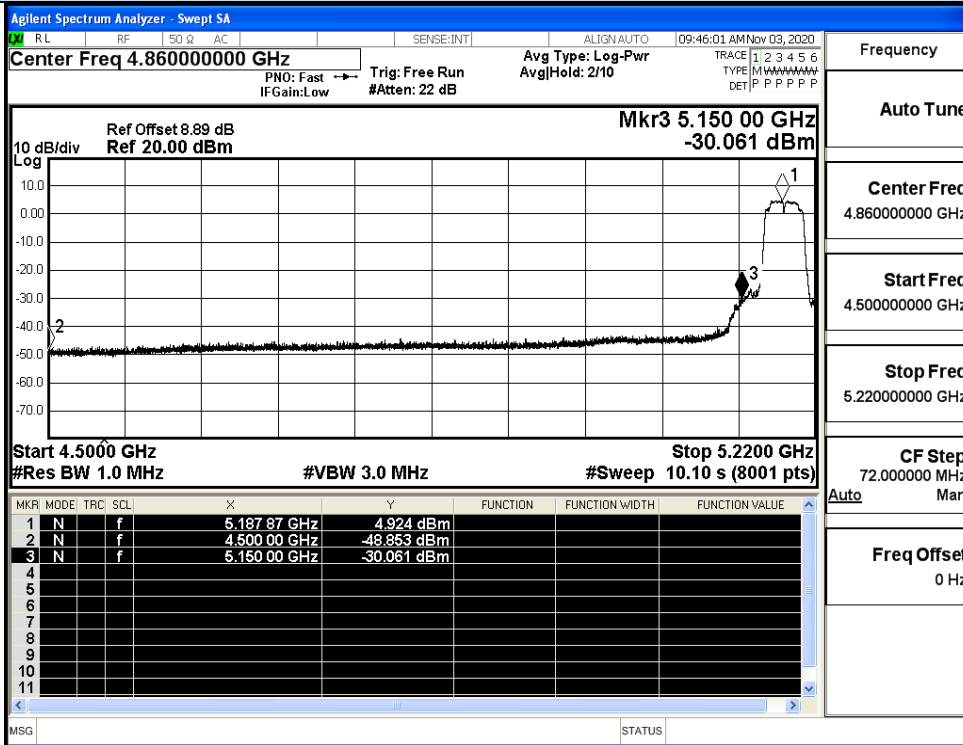


IEEE 802.11n20 / Channel 48 / 5240MHz / Peak

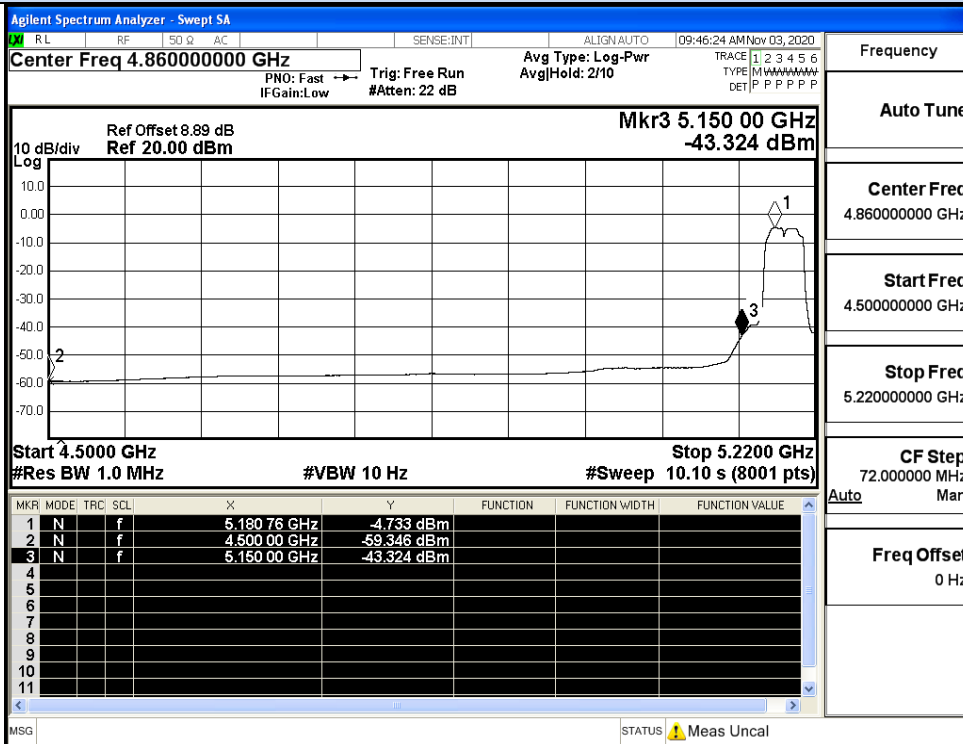


IEEE 802.11n20 / Channel 48 / 5240MHz / Average

Undesirable Emissions Measurement

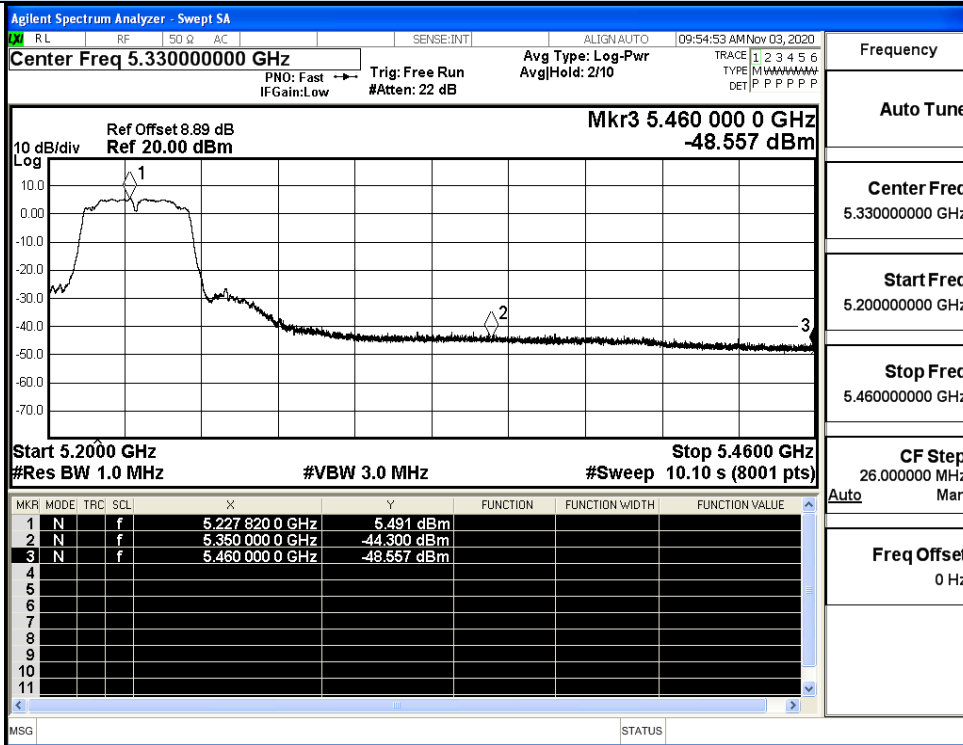


IEEE 802.11n40 / Channel 38 / 5190MHz / Peak

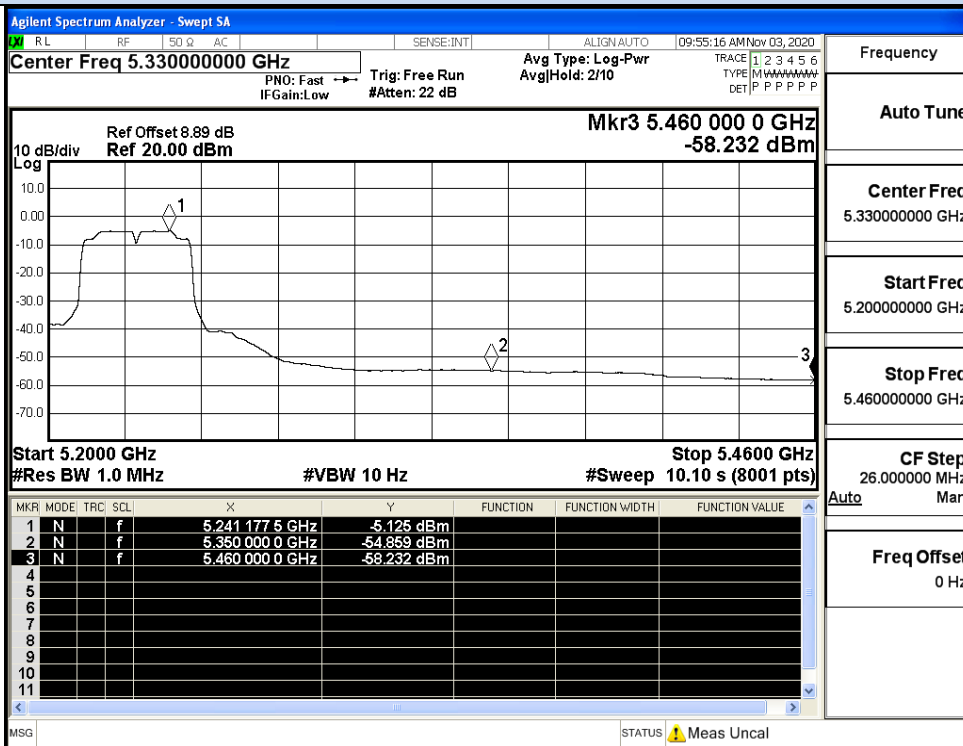


IEEE 802.11n40 / Channel 38 / 5190MHz / Average

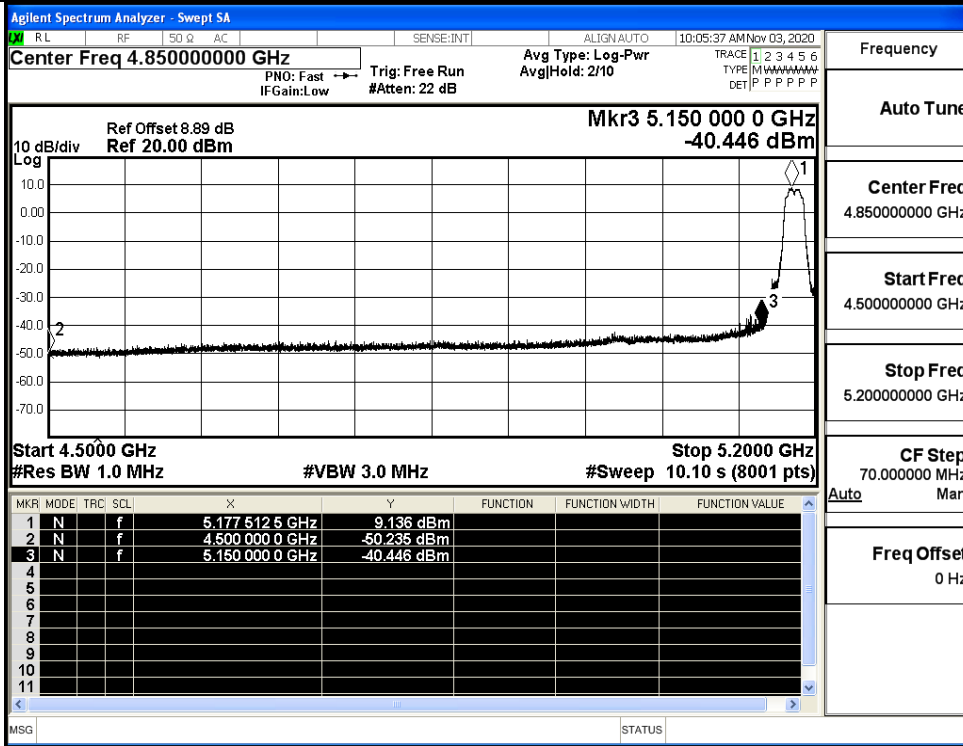
Undesirable Emissions Measurement



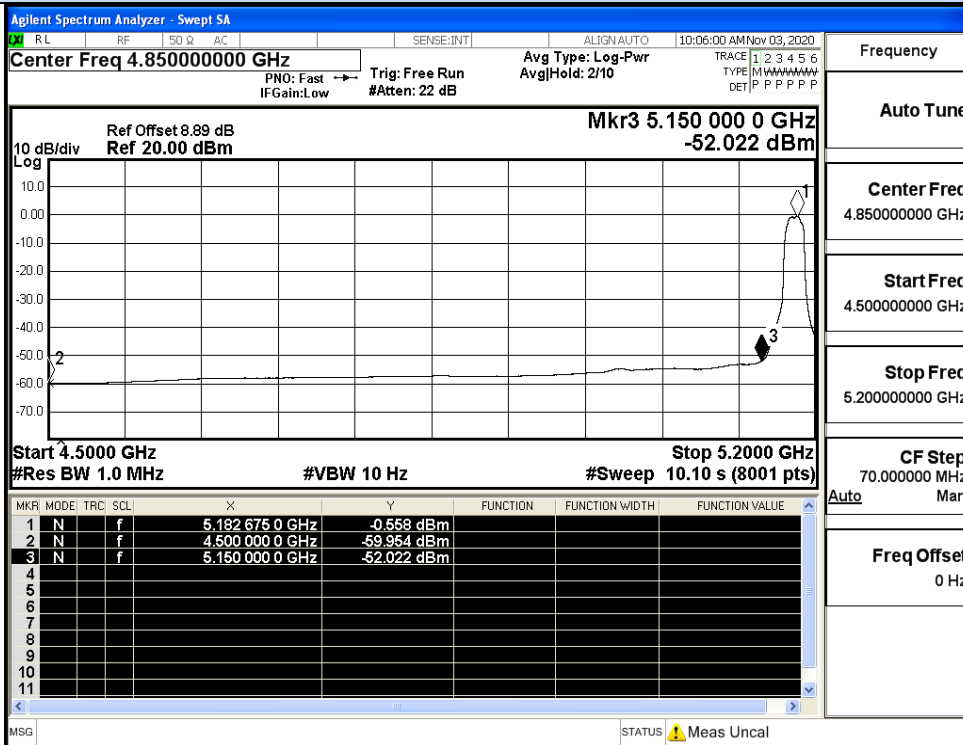
IEEE 802.11n40 / Channel 46 / 5230MHz / Peak



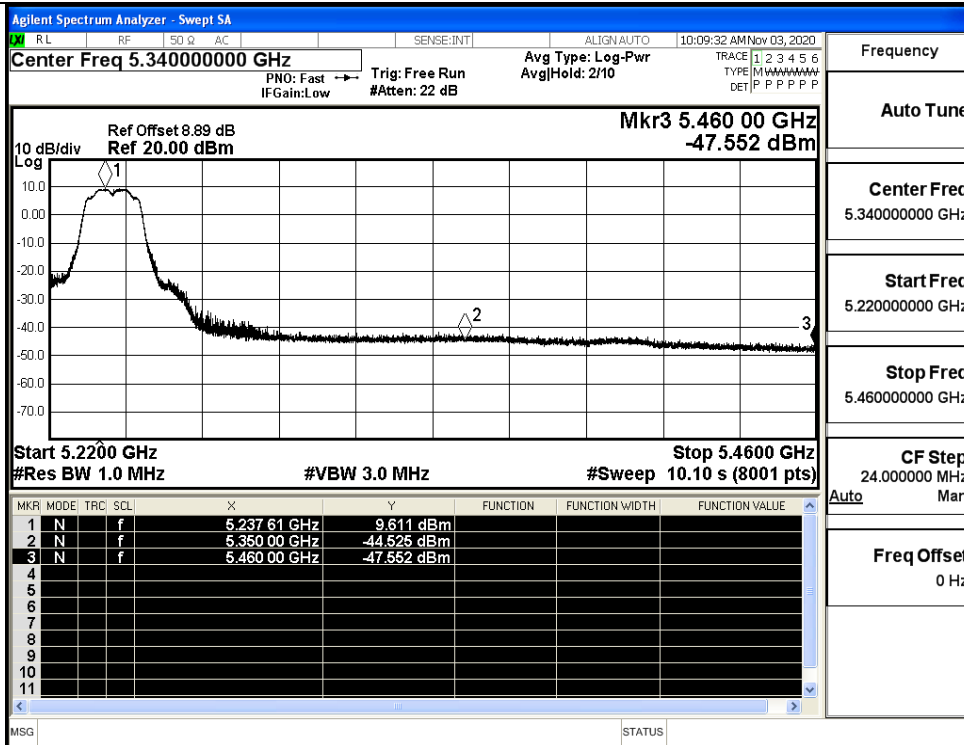
IEEE 802.11n40 / Channel 46 / 5230MHz / Average



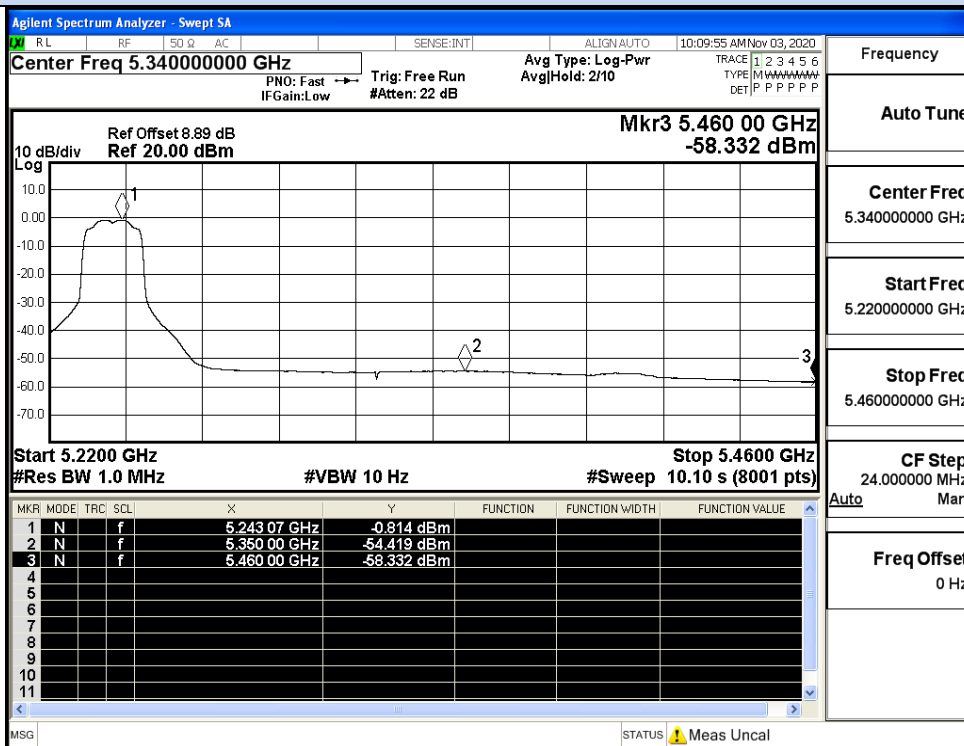
IEEE 802.11ac20 / Channel 36 / 5180MHz / Peak



IEEE 802.11ac20 / Channel 36 / 5180MHz / Average

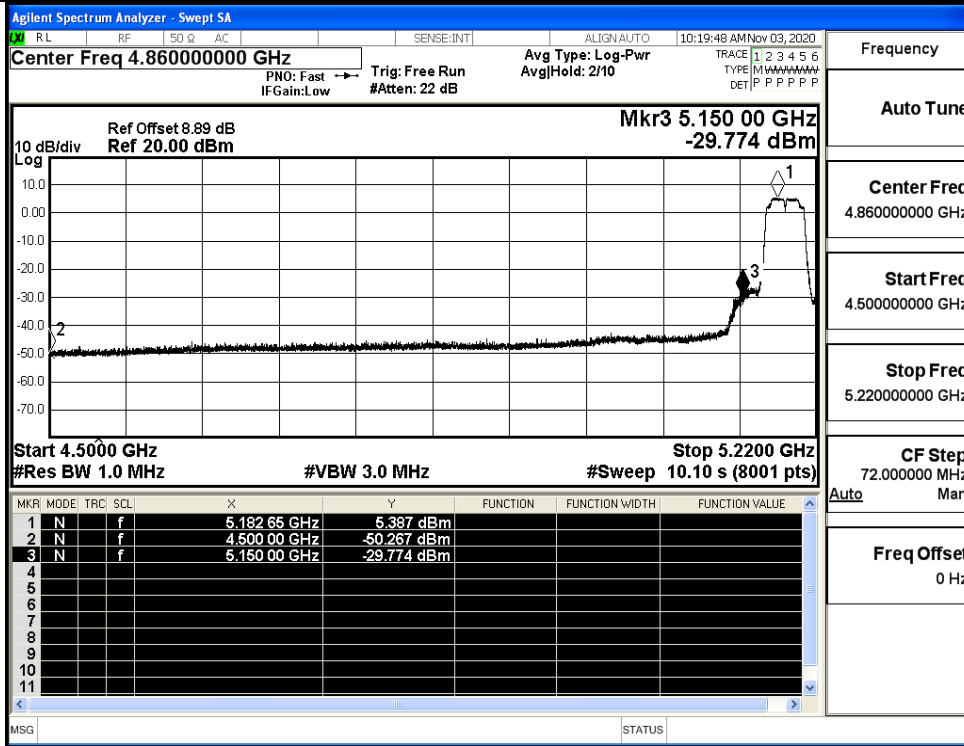


IEEE 802.11ac20 / Channel 48 / 5240MHz / Peak

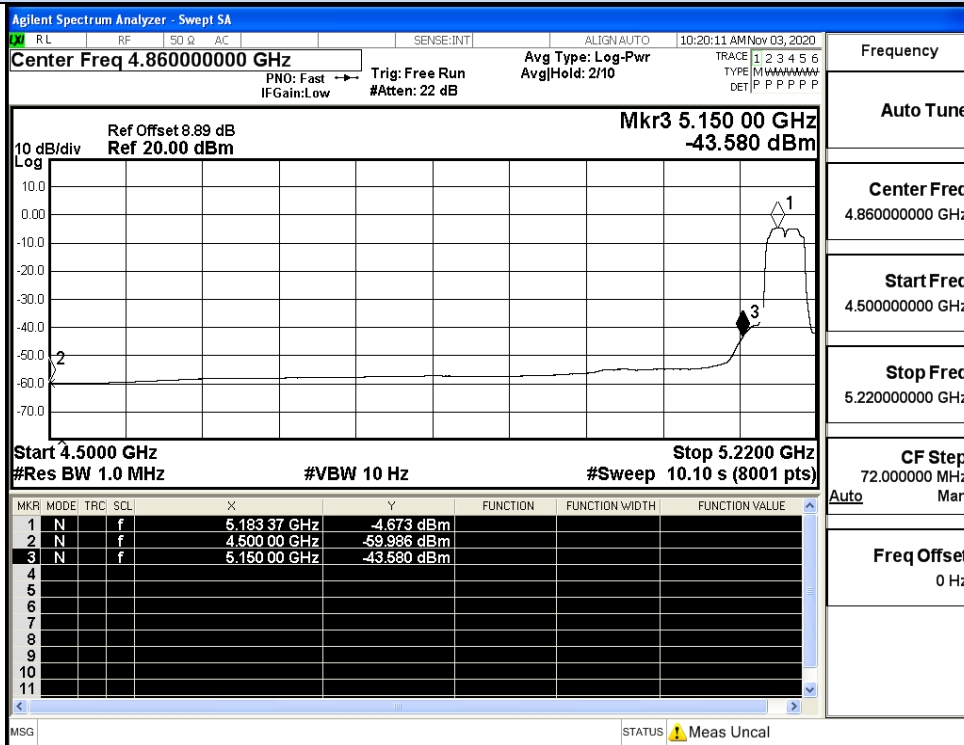


IEEE 802.11ac20 / Channel 48 / 5240MHz / Average

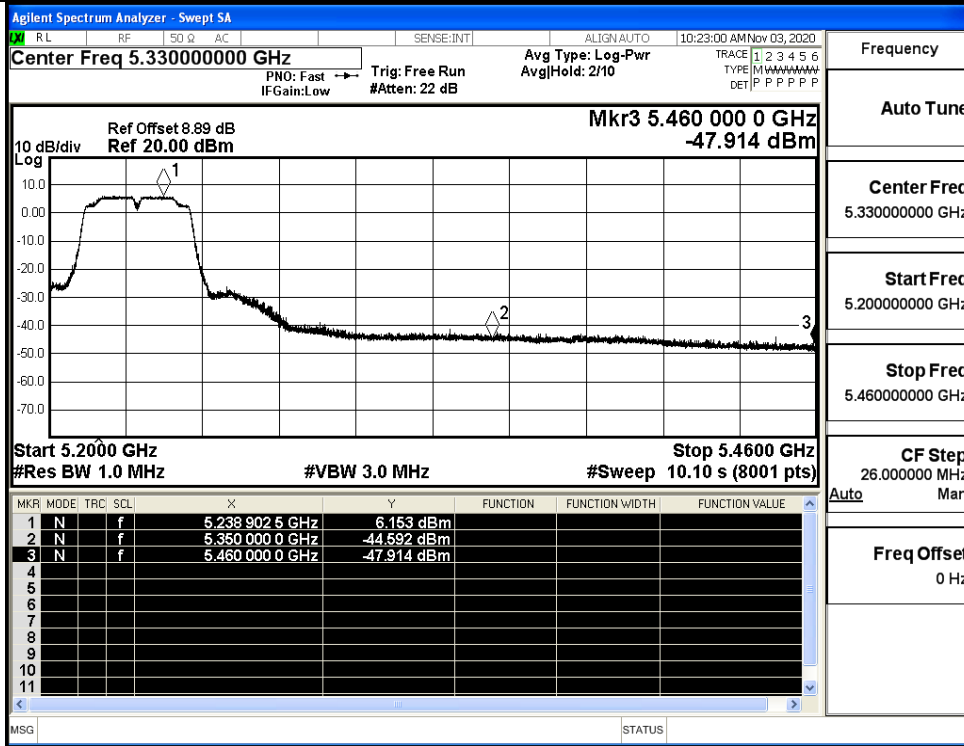




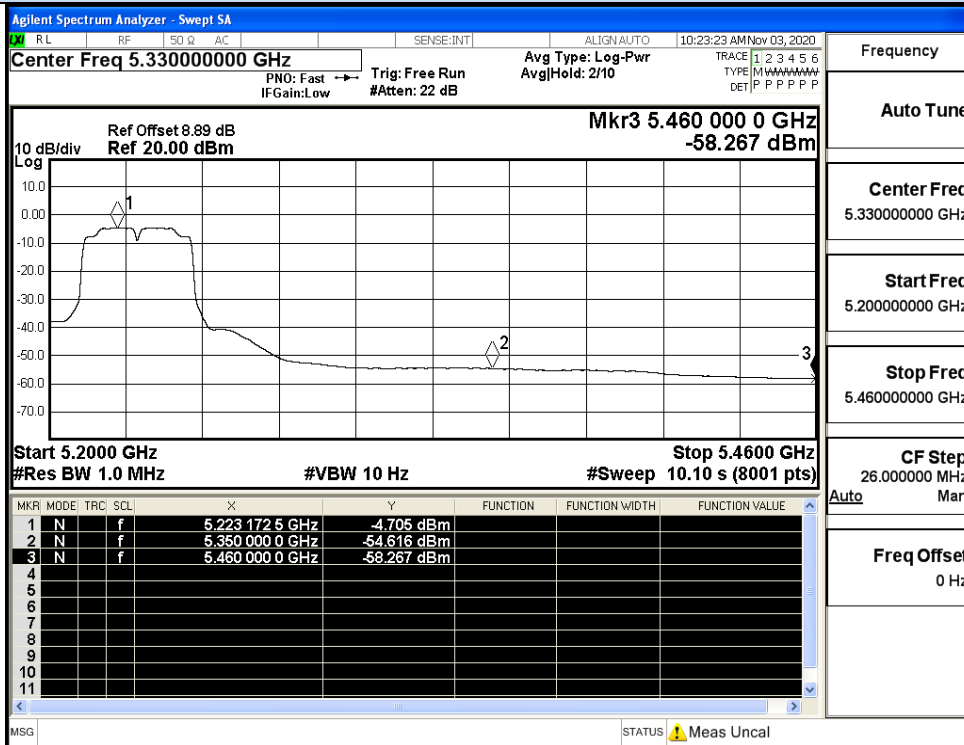
IEEE 802.11ac40 / Channel 38/ 5190MHz / Peak



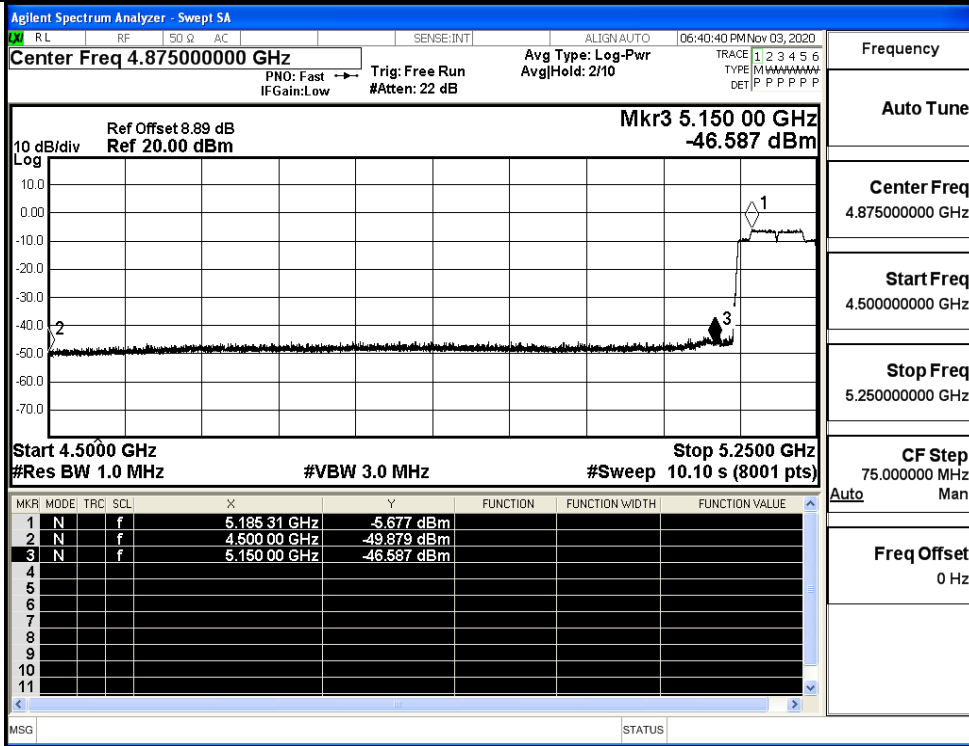
IEEE 802.11ac40 / Channel 38 / 5190MHz / Average



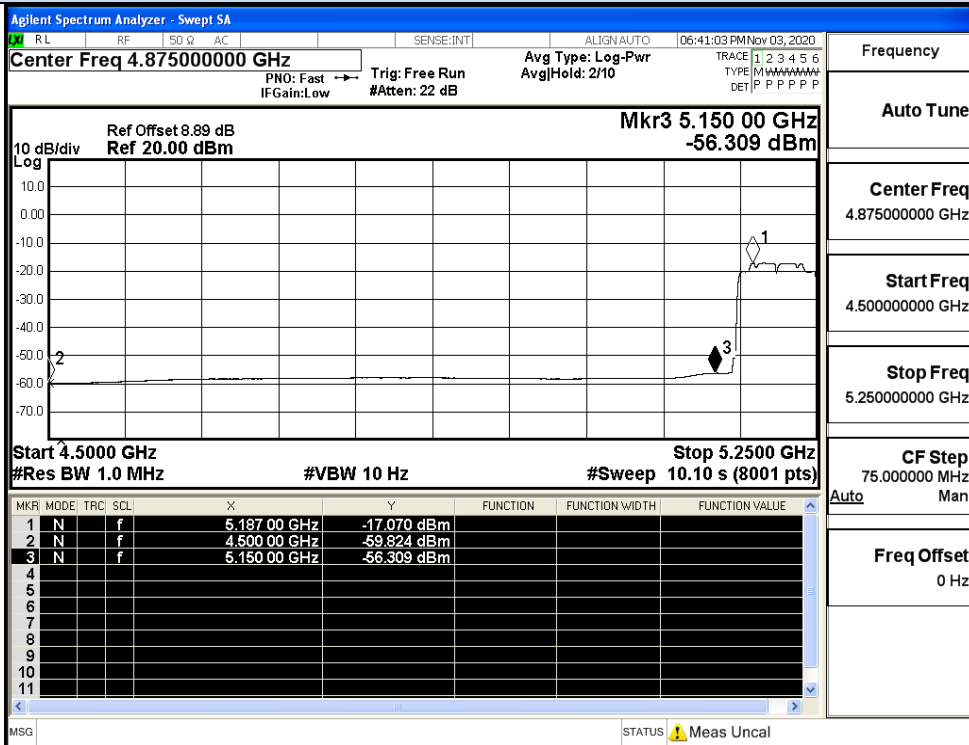
IEEE 802.11ac40 / Channel 46/ 5230MHz / Peak



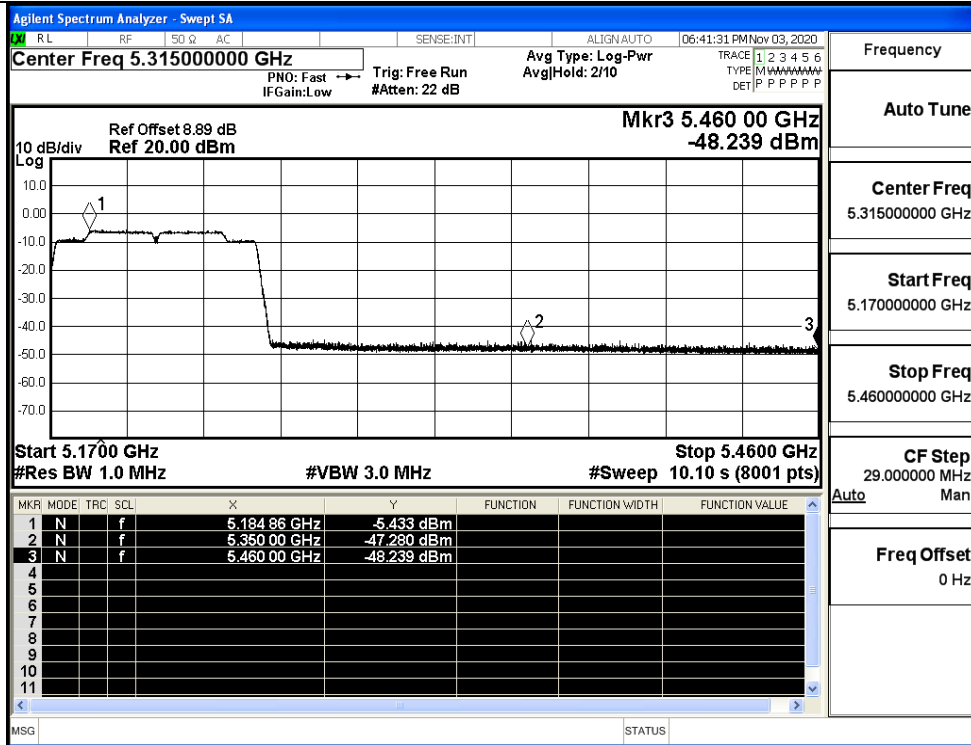
IEEE 802.11ac40 / Channel 46 / 5230MHz / Average



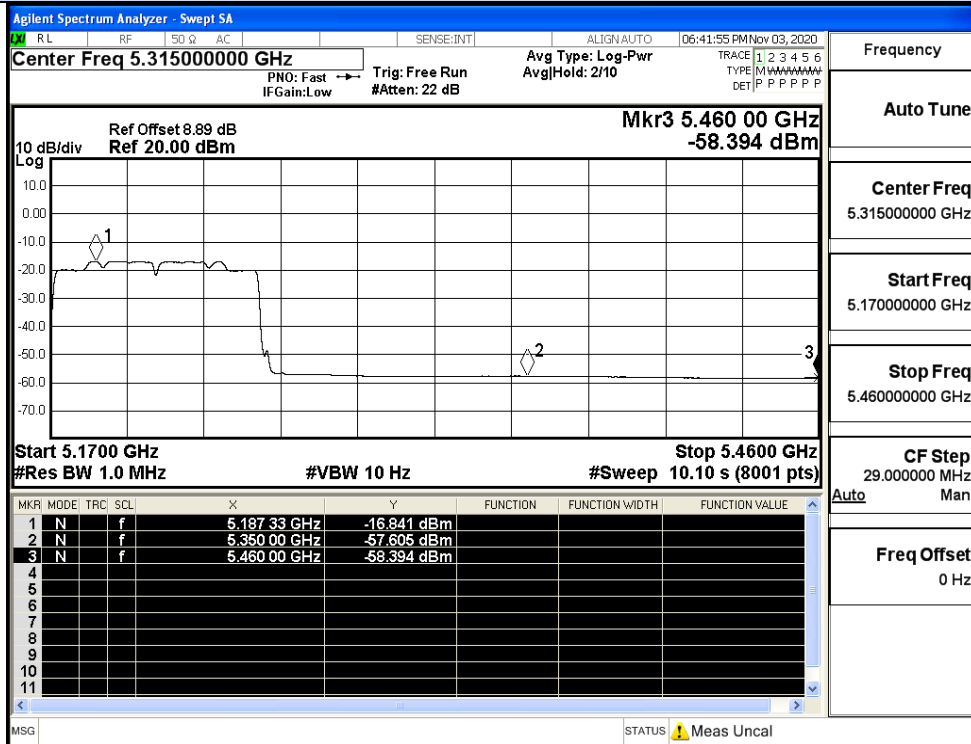
IEEE 802.11ac80 / Channel 42 / 5210MHz / Peak



IEEE 802.11ac80 / Channel 42 / 5210MHz / Average



IEEE 802.11ac80 / Channel 42 / 5210MHz / Peak



IEEE 802.11ac80 / Channel 42 / 5210MHz / Average