

Appendix D

RF Test Data for 5.2G WLAN (Conducted Measurement)

Product Name: Wireless Video & Audio Transmitter & Receiver Kit

Trade Mark: N/A

Test Model: JTECH-WEX200

Environmental Conditions

Temperature:	22.8 ° C
Relative Humidity:	53.6%
ATM Pressure:	100.0 kPa
Test Engineer:	Lihuan
Supervised by:	Wang.Chuang

D.1 Duty Cycle

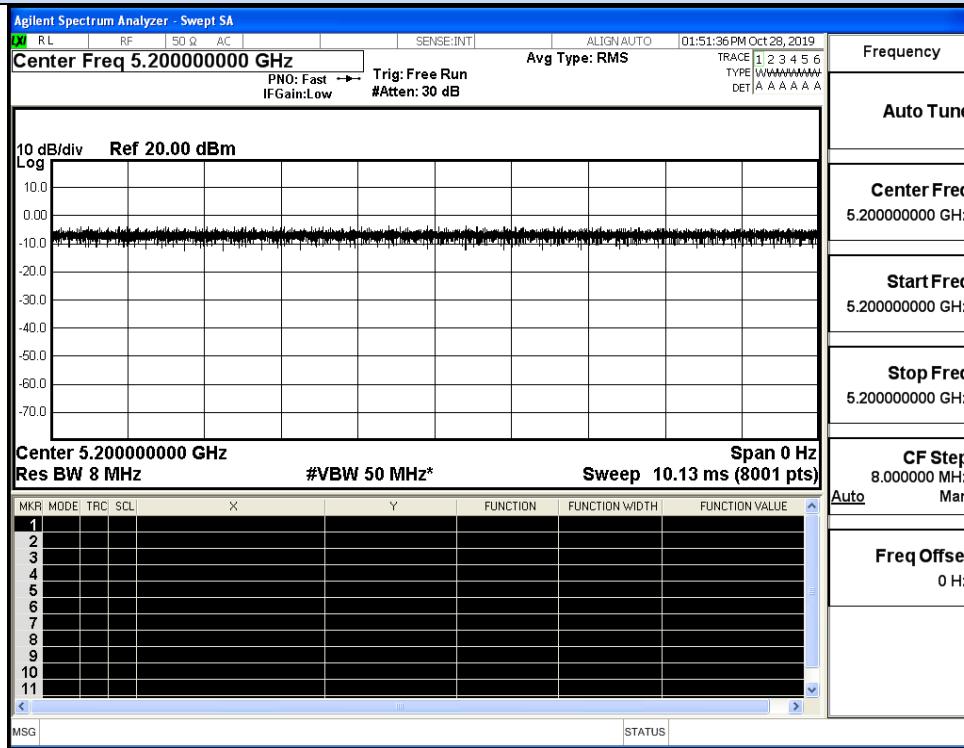
Antenna 0

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

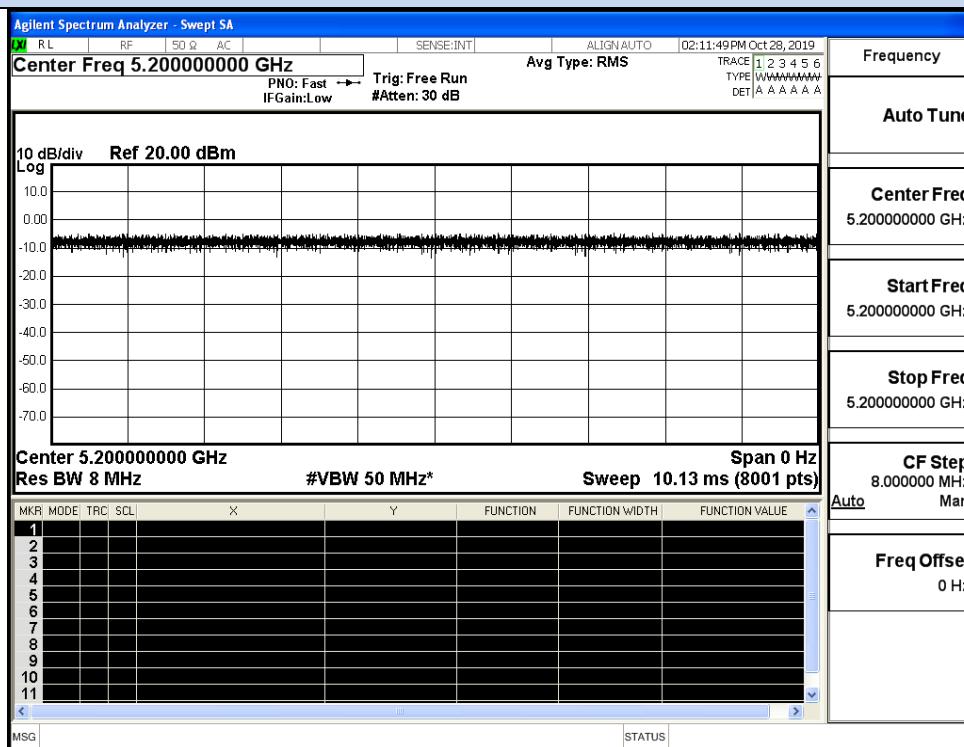
Antenna 1

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

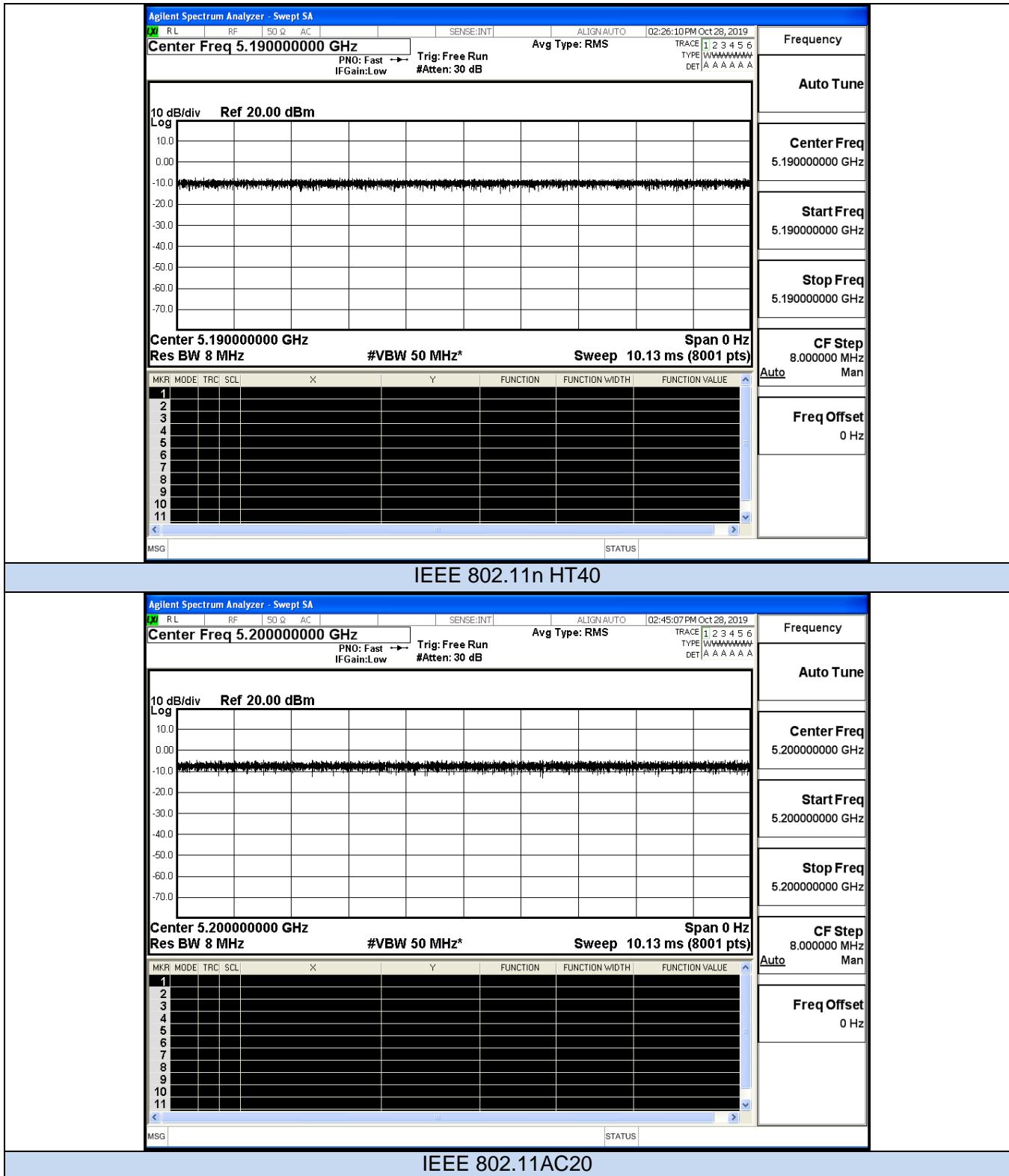
On Time and Duty Cycle(Antenna 0)

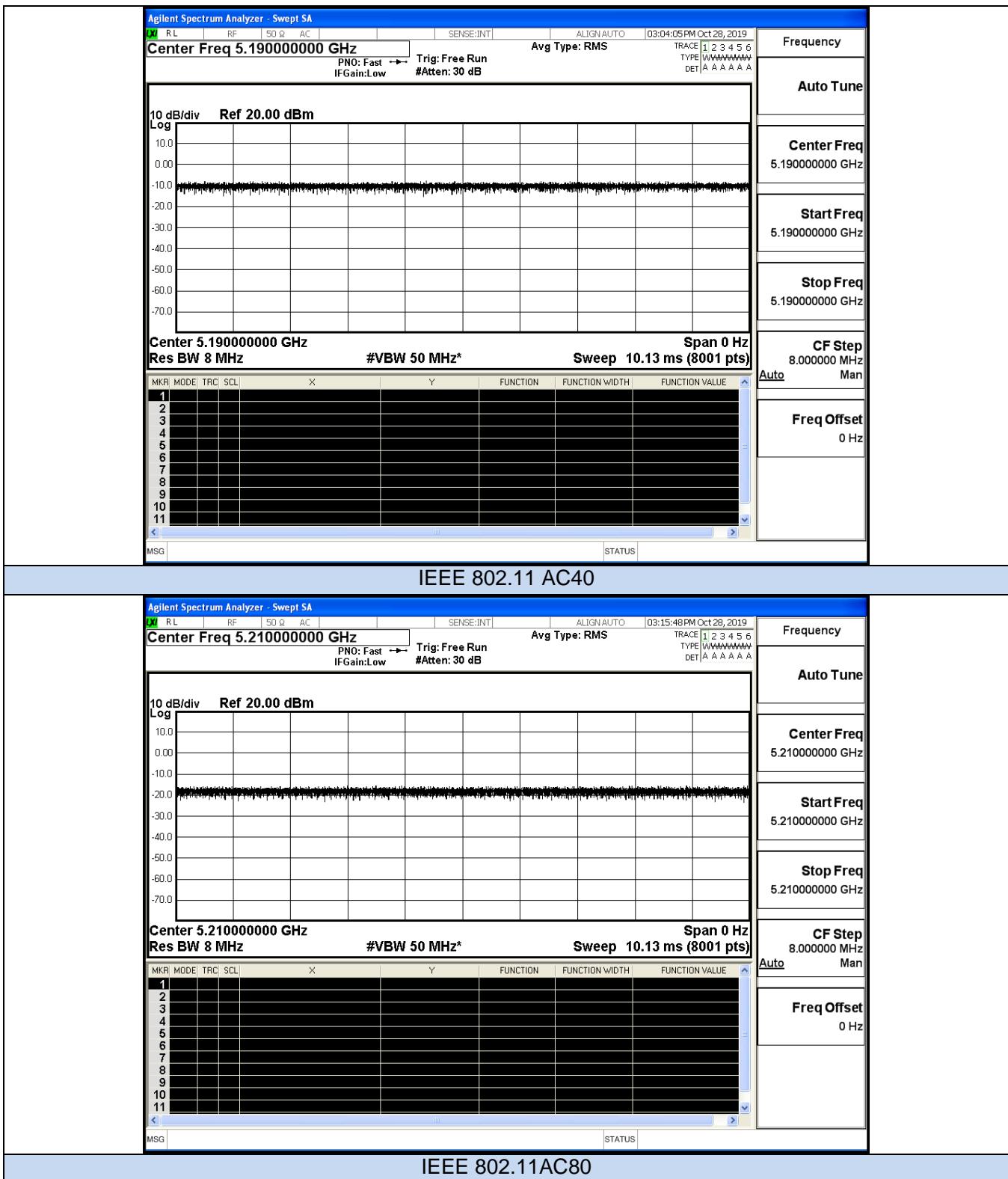


IEEE 802.11a

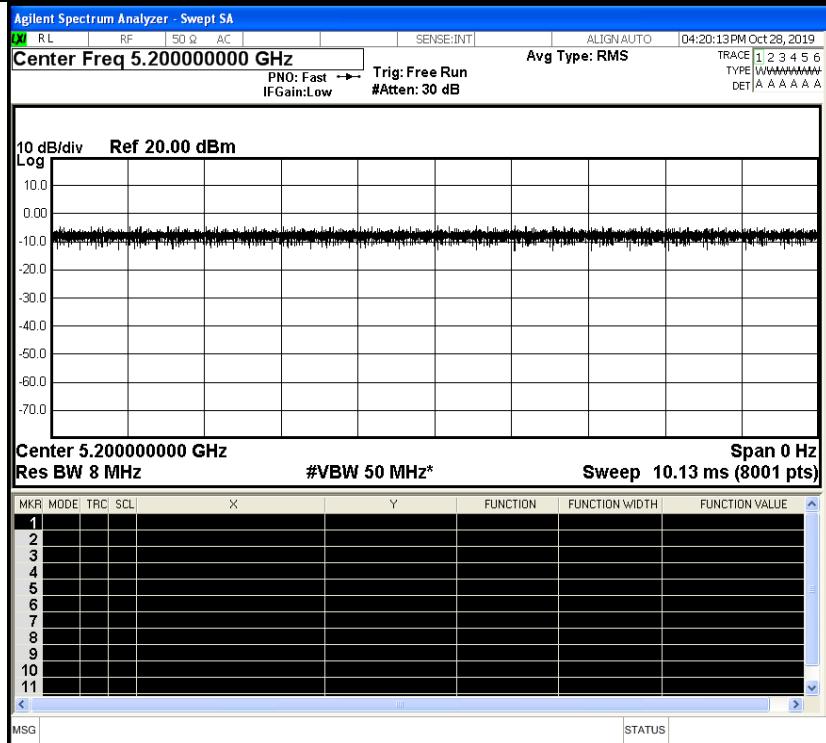


IEEE 802.11n HT20

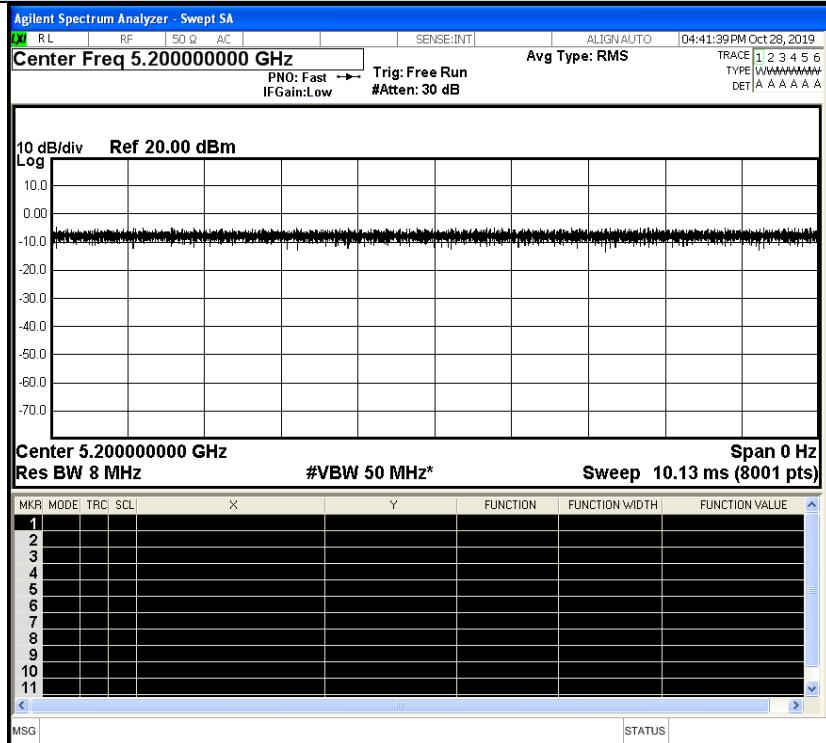




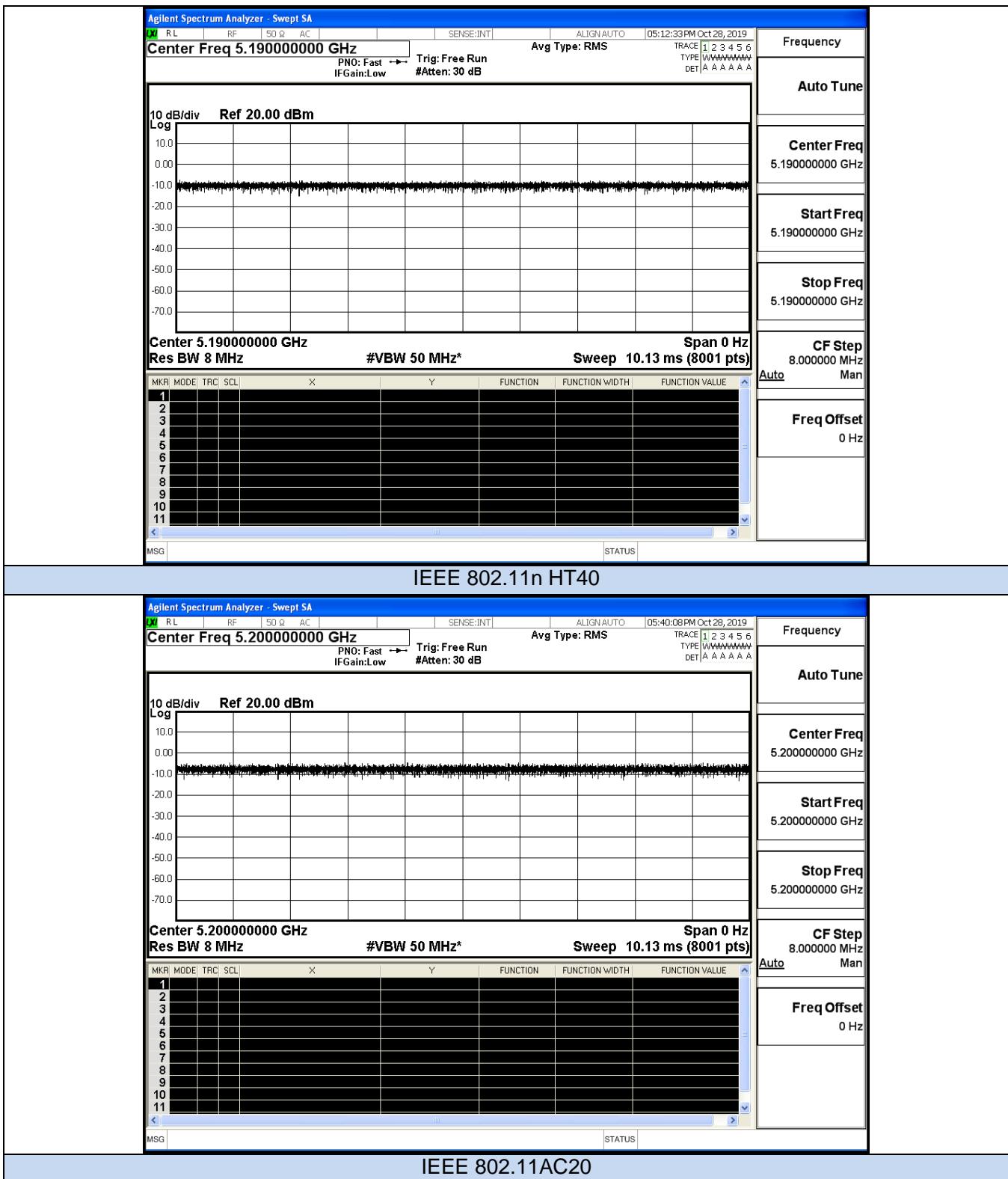
On Time and Duty Cycle(Antenna 1)

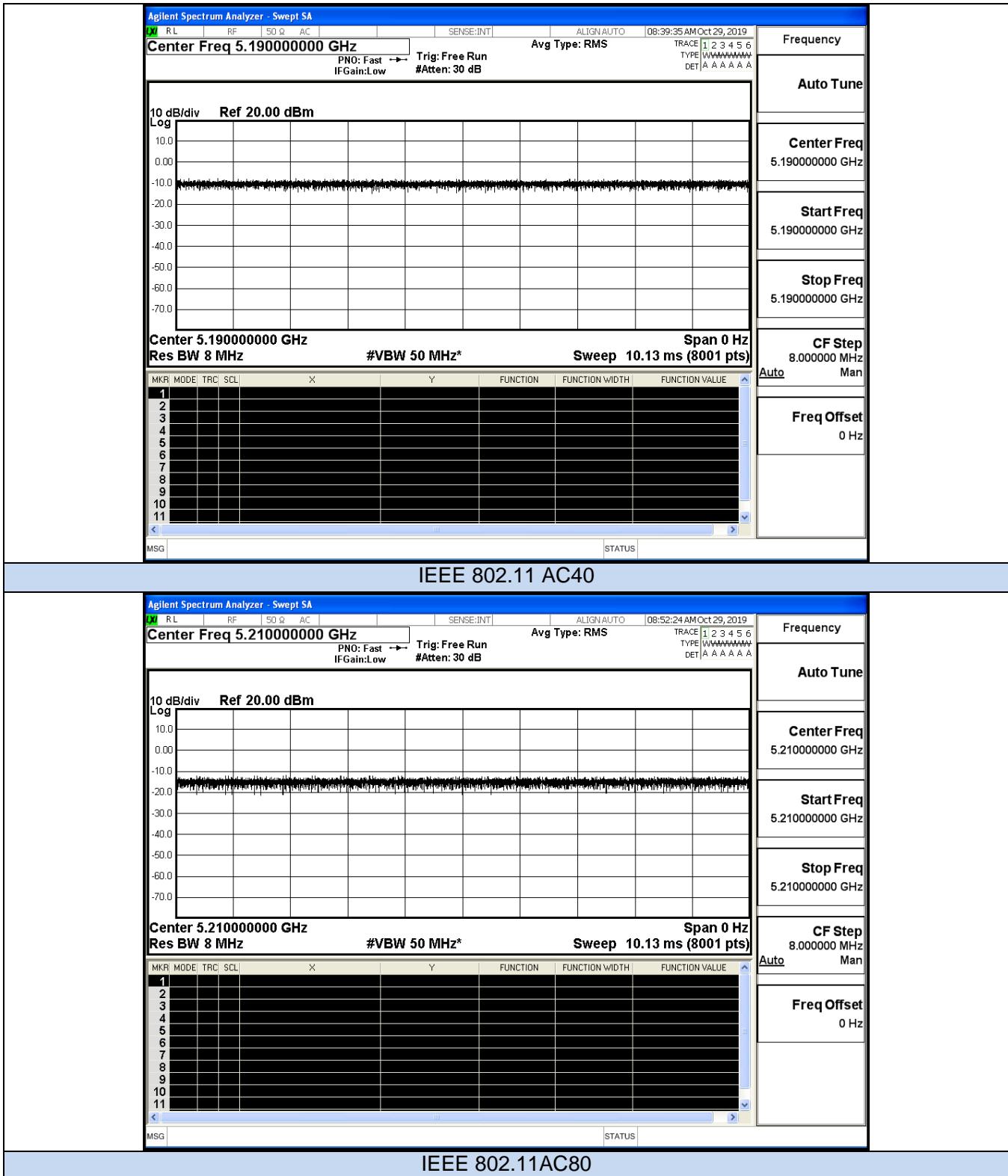


IEEE 802.11a



IEEE 802.11n HT20





D.2 Maximum Conduct Output Power

Antenna 0

Test Mode	Channel	Frequency (MHz)	AVG Conducted Power (dBm)	Duty Cycle Factor(dB)	Report Conducted Power(dBm)	Limit (dBm)	Verdict
11A	36	5180	10.86	0	10.86	30	Pass
	40	5200	9.98	0	9.98		Pass
	48	5240	10.28	0	10.28		Pass
11N20 SISO	36	5180	9.58	0	9.58	30	Pass
	40	5200	9.61	0	9.61		Pass
	48	5240	10.03	0	10.03		Pass
11N40 SISO	38	5190	10.51	0	10.51	30	Pass
	46	5230	10.65	0	10.65		Pass
11AC20 SISO	36	5180	9.43	0	9.43	30	Pass
	40	5200	9.76	0	9.76		Pass
	48	5240	10.09	0	10.09		Pass
11AC40 SISO	38	5190	10.33	0	10.33	30	Pass
	46	5230	10.73	0	10.73		Pass
11AC80 SISO	42	5210	11.4	0	11.4	30	Pass

Antenna 1

Test Mode	Channel	Frequency (MHz)	AVG Conducted Power (dBm)	Duty Cycle Factor(dB)	Report Conducted Power(dBm)	Limit (dBm)	Verdict
11A	36	5180	9.24	0	9.24	30	Pass
	40	5200	9.52	0	9.52		Pass
	48	5240	10.07	0	10.07		Pass
11N20 SISO	36	5180	9.63	0	9.63	30	Pass
	40	5200	9.48	0	9.48		Pass
	48	5240	10.35	0	10.35		Pass
11N40 SISO	38	5190	10.59	0	10.59	30	Pass
	46	5230	10.96	0	10.96		Pass
11AC20 SISO	36	5180	9.72	0	9.72	30	Pass
	40	5200	9.82	0	9.82		Pass
	48	5240	10.2	0	10.2		Pass
11AC40 SISO	38	5190	10.13	0	10.13	30	Pass
	46	5230	9.72	0	9.72		Pass
11AC80 SISO	42	5210	11.48	0	11.48	30	Pass

ANT0+ANT1:

Test Mode	Channel	Frequency (MHz)	Duty Cycle Factor (dB)	Report Conducted Power (dBm)			Limit (dBm)	Verdict
				Ant0	Ant1	Sum		
11N20 MIMO	36	5180	0	9.58	9.63	12.62	27.99	Pass
	40	5200	0	9.61	9.48	12.56		Pass
	48	5240	0	10.03	10.35	13.20		Pass
11N40 MIMO	38	5190	0	10.51	10.59	13.56	27.99	Pass
	46	5230	0	10.65	10.96	13.82		Pass
11AC20 MIMO	36	5180	0	9.43	9.72	12.59	27.99	Pass
	40	5200	0	9.76	9.82	12.80		Pass
	48	5240	0	10.09	10.2	13.16		Pass
11AC40 MIMO	38	5190	0	10.33	10.13	13.24	27.99	Pass
	46	5230	0	10.73	9.72	13.26		Pass
11AC80 MIMO	42	5210	0	11.4	11.48	14.45	27.99	Pass

D.3 Power Spectral Density

Antenna 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	-0.13	0	-0.13	17	Pass
	40	5200	-0.76	0	-0.76		Pass
	48	5240	-0.50	0	-0.50		Pass
11N20 SISO	36	5180	-1.47	0	-1.47	17	Pass
	40	5200	-1.52	0	-1.52		Pass
	48	5240	-0.89	0	-0.89		Pass
11N40 SISO	38	5190	-2.58	0	-2.58	17	Pass
	46	5230	-2.15	0	-2.15		Pass
11AC20 SISO	36	5180	-1.37	0	-1.37	17	Pass
	40	5200	-1.21	0	-1.21		Pass
	48	5240	-0.82	0	-0.82		Pass
11AC40 SISO	38	5190	-2.66	0	-2.66	17	Pass
	46	5230	-2.13	0	-2.13		Pass
11AC80 SISO	42	5210	-1.37	0	-1.37	17	Pass

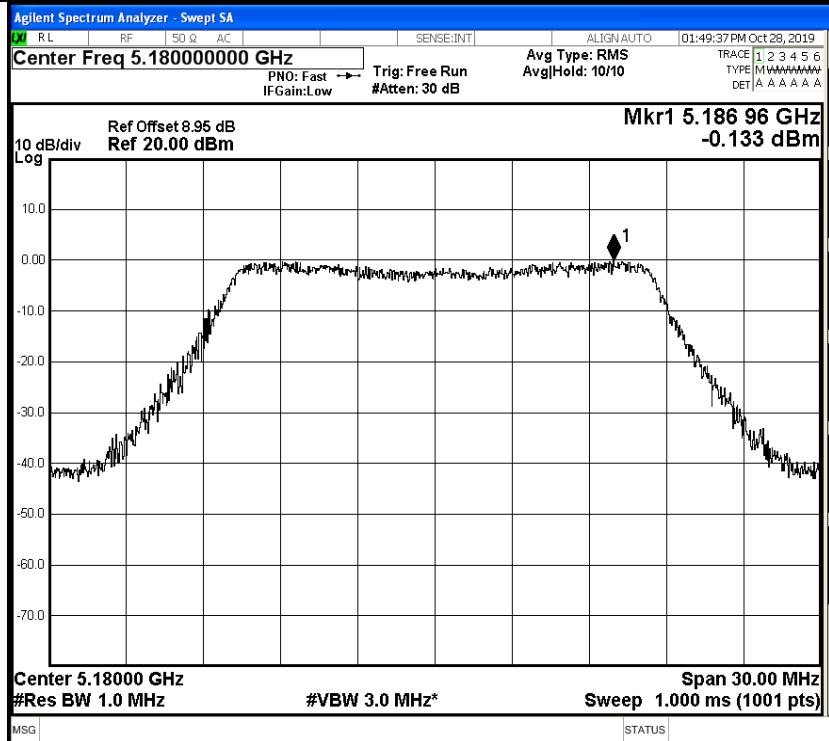
Antenna 1

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	-1.22	0	-1.22	17	Pass
	40	5200	-1.40	0	-1.40		Pass
	48	5240	-0.74	0	-0.74		Pass
11N20 SISO	36	5180	-1.11	0	-1.11	17	Pass
	40	5200	-1.53	0	-1.53		Pass
	48	5240	-0.67	0	-0.67		Pass
11N40 SISO	38	5190	-2.30	0	-2.30	17	Pass
	46	5230	-2.17	0	-2.17		Pass
11AC20 SISO	36	5180	-1.20	0	-1.20	17	Pass
	40	5200	-1.15	0	-1.15		Pass
	48	5240	-0.66	0	-0.66		Pass
11AC40 SISO	38	5190	-2.74	0	-2.74	17	Pass
	46	5230	-3.05	0	-3.05		Pass
11AC80 SISO	42	5210	-1.61	0	-1.61	17	Pass

ANT0+ANT1:

Test Mode	Channel	Frequency (MHz)	Duty Cycle Factor (dB)	Report Power Density (dBm/MHz)			Limit (dBm)
				Ant0	Ant1	Sum	
11N20 MIMO	36	5180	0	-1.47	-1.11	1.72	14.99
	40	5200	0	-1.52	-1.53	1.49	
	48	5240	0	-0.89	-0.67	2.23	
11N40 MIMO	38	5190	0	-2.58	-2.30	0.57	14.99
	46	5230	0	-2.15	-2.17	0.85	
11AC20 MIMO	36	5180	0	-1.37	-1.20	1.73	14.99
	40	5200	0	-1.21	-1.15	1.83	
	48	5240	0	-0.82	-0.66	2.27	
11AC40 MIMO	38	5190	0	-2.66	-2.74	0.31	14.99
	46	5230	0	-2.13	-3.05	0.44	
11AC80 MIMO	42	5210	0	-1.37	-1.61	1.52	14.99

Power Spectral Density(Antenna 0)



Frequency

Auto Tune

Center Freq

5.180000000 GHz

Start Freq

5.185000000 GHz

Stop Freq

5.195000000 GHz

CF Step

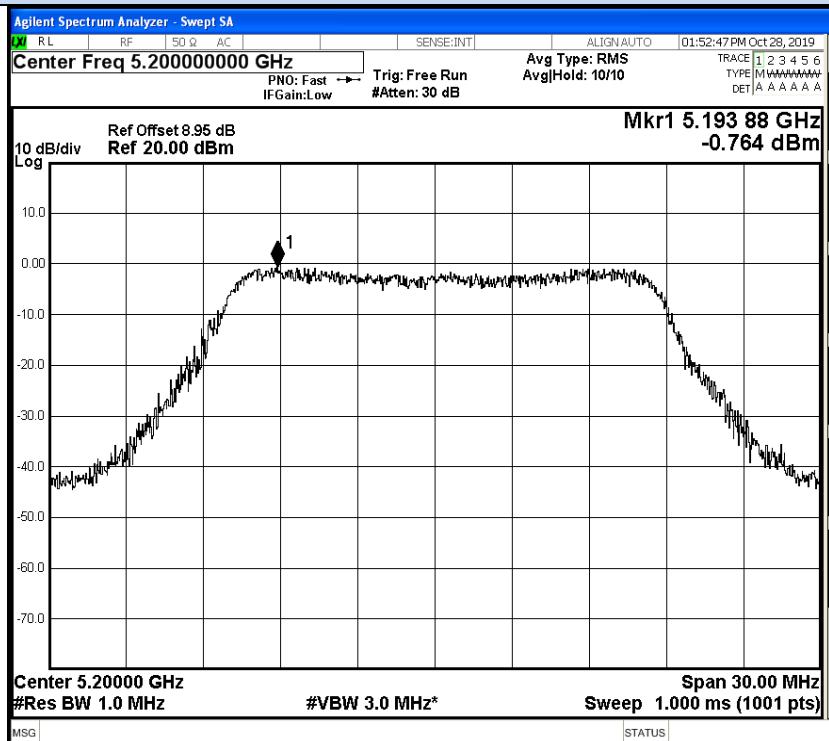
3.000000 MHz

Auto

Freq Offset

0 Hz

IEEE 802.11a / Channel 36 / 5180MHz



Frequency

Auto Tune

Center Freq

5.200000000 GHz

Start Freq

5.185000000 GHz

Stop Freq

5.215000000 GHz

CF Step

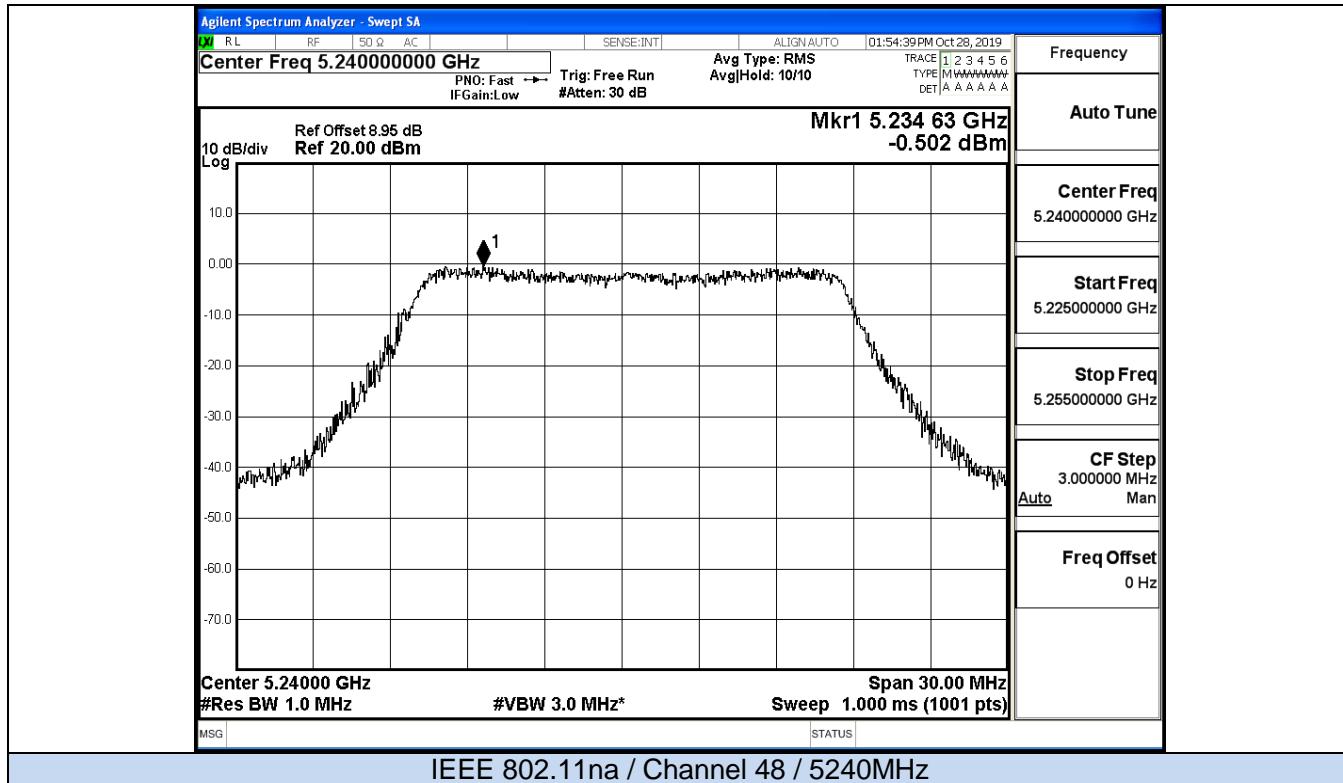
3.000000 MHz

Auto

Freq Offset

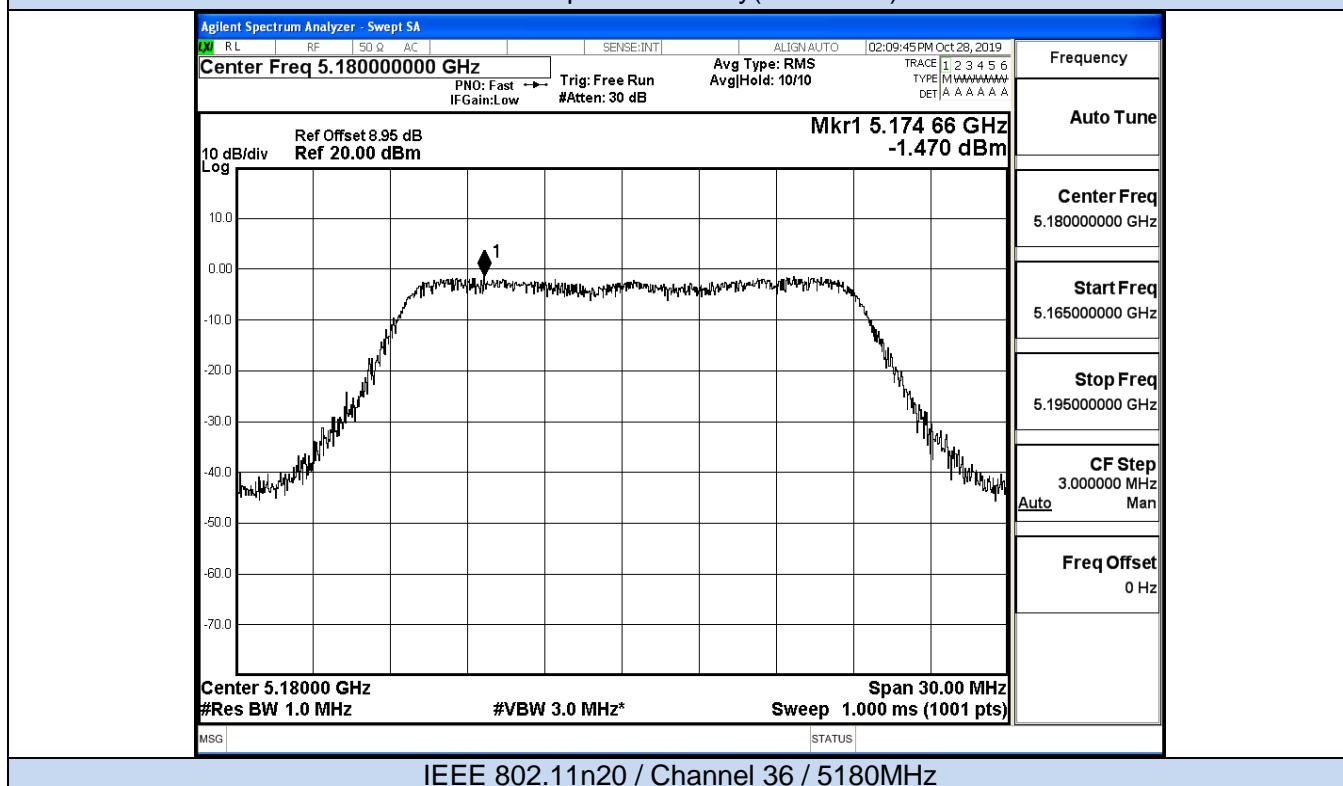
0 Hz

IEEE 802.11na / Channel 40 / 5200MHz

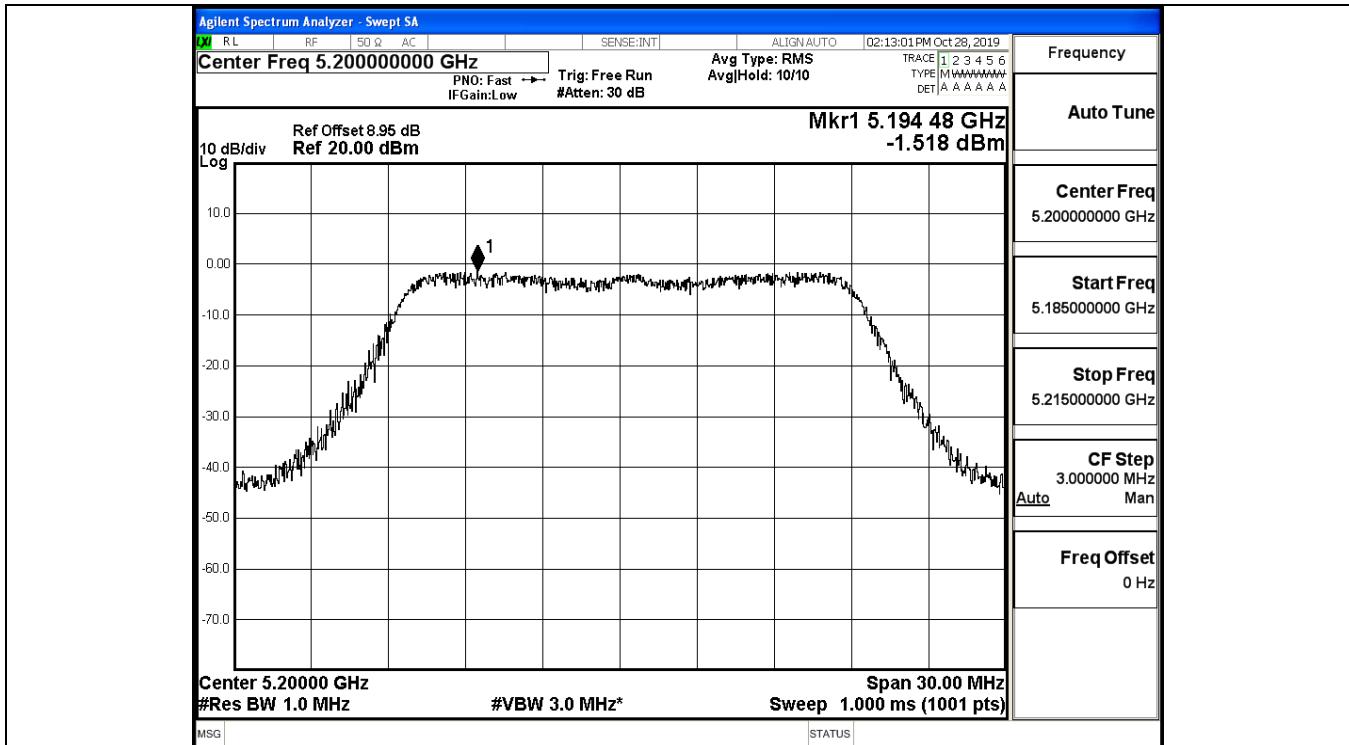
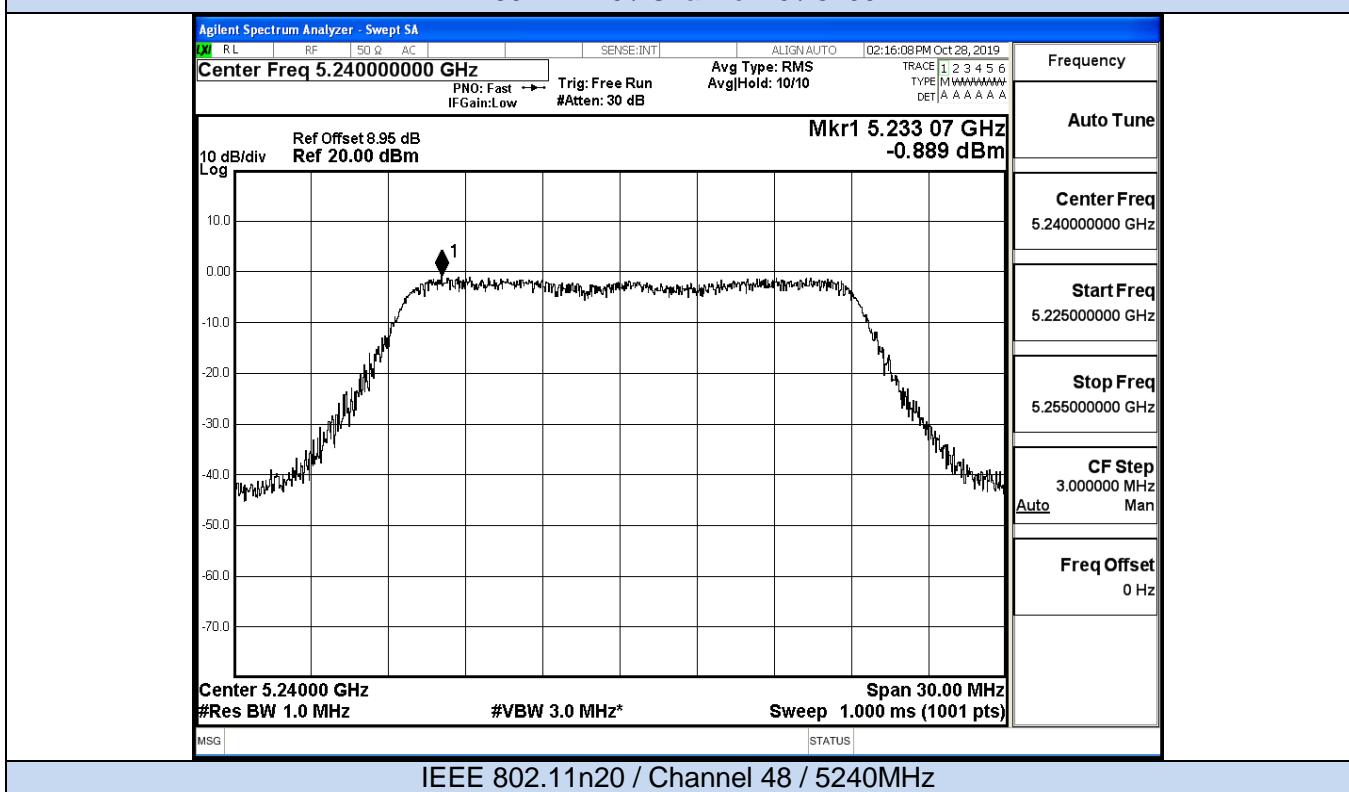


IEEE 802.11na / Channel 48 / 5240MHz

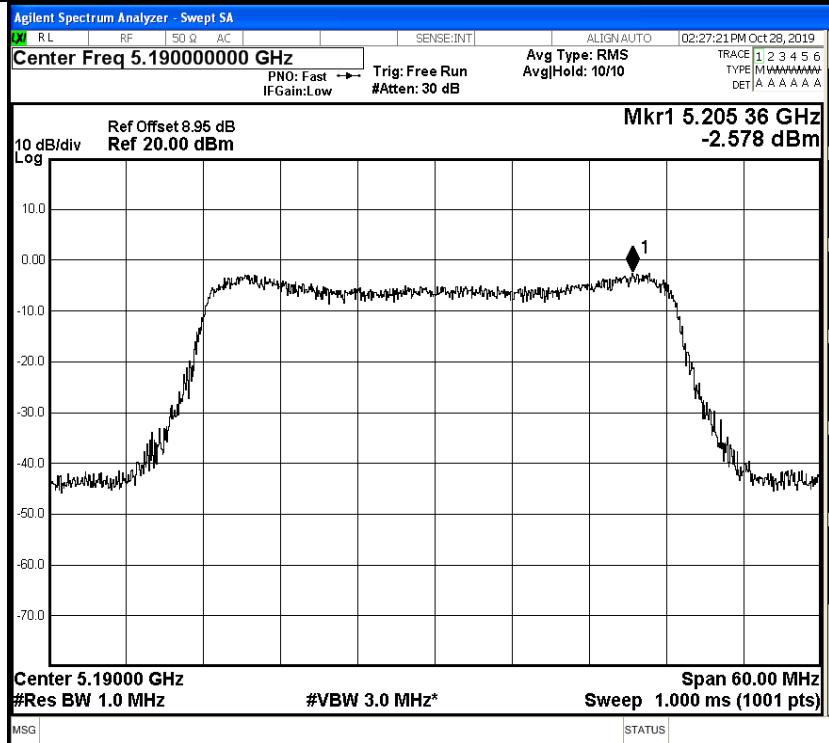
Power Spectral Density(Antenna 0)



IEEE 802.11n20 / Channel 36 / 5180MHz

**IEEE 802.11n20 / Channel 40 / 5200MHz****IEEE 802.11n20 / Channel 48 / 5240MHz**

Power Spectral Density(Antenna 0)



Frequency

Auto Tune

Center Freq

5.190000000 GHz

Start Freq

5.160000000 GHz

Stop Freq

5.220000000 GHz

CF Step

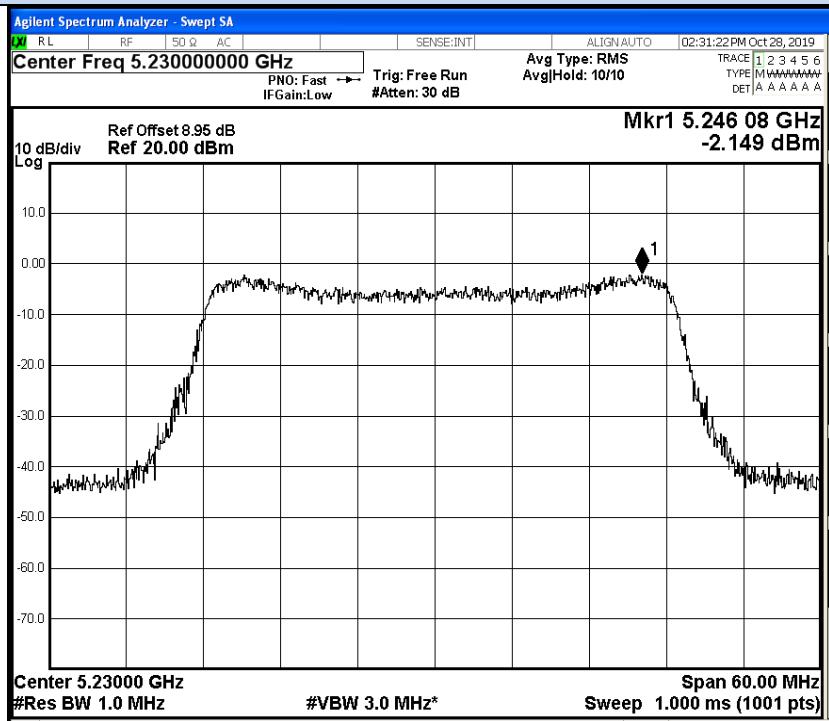
6.000000 MHz

Auto Man

Freq Offset

0 Hz

IEEE 802.11n40 / Channel 38 / 5190MHz



Frequency

Auto Tune

Center Freq

5.230000000 GHz

Start Freq

5.200000000 GHz

Stop Freq

5.260000000 GHz

CF Step

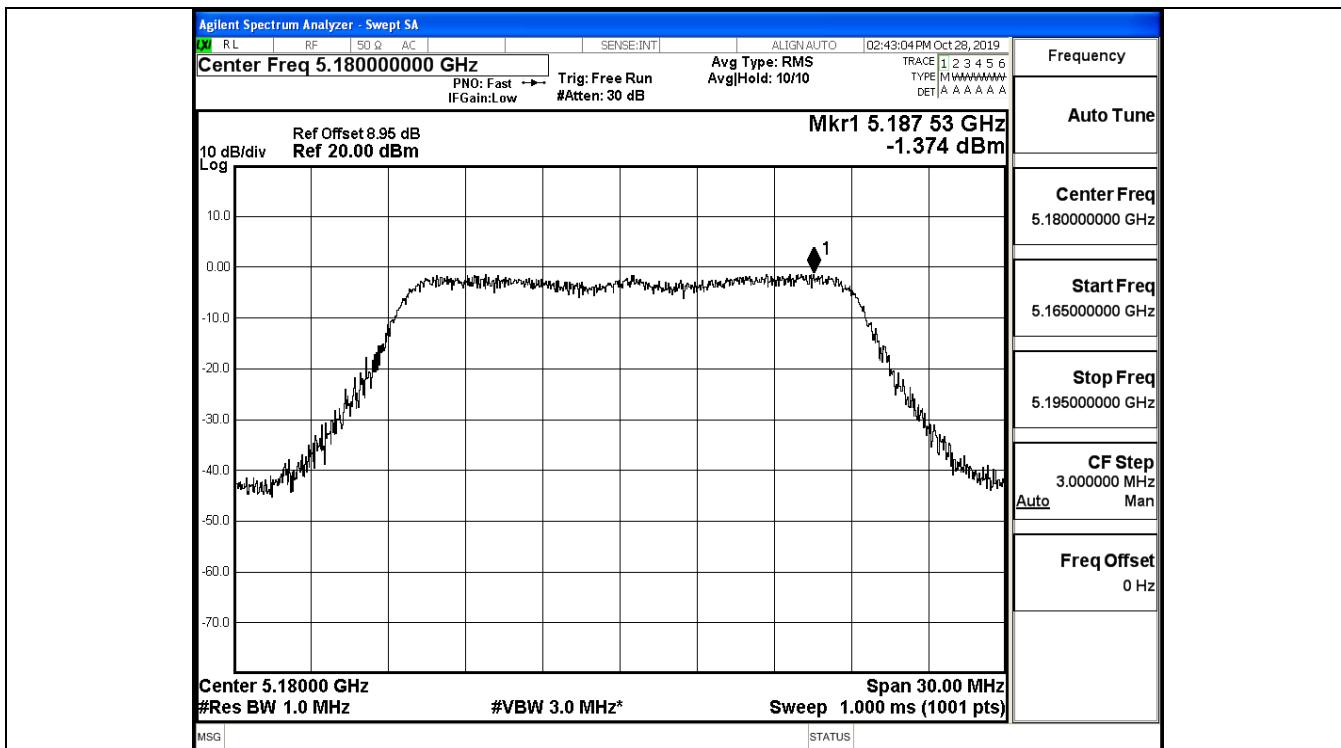
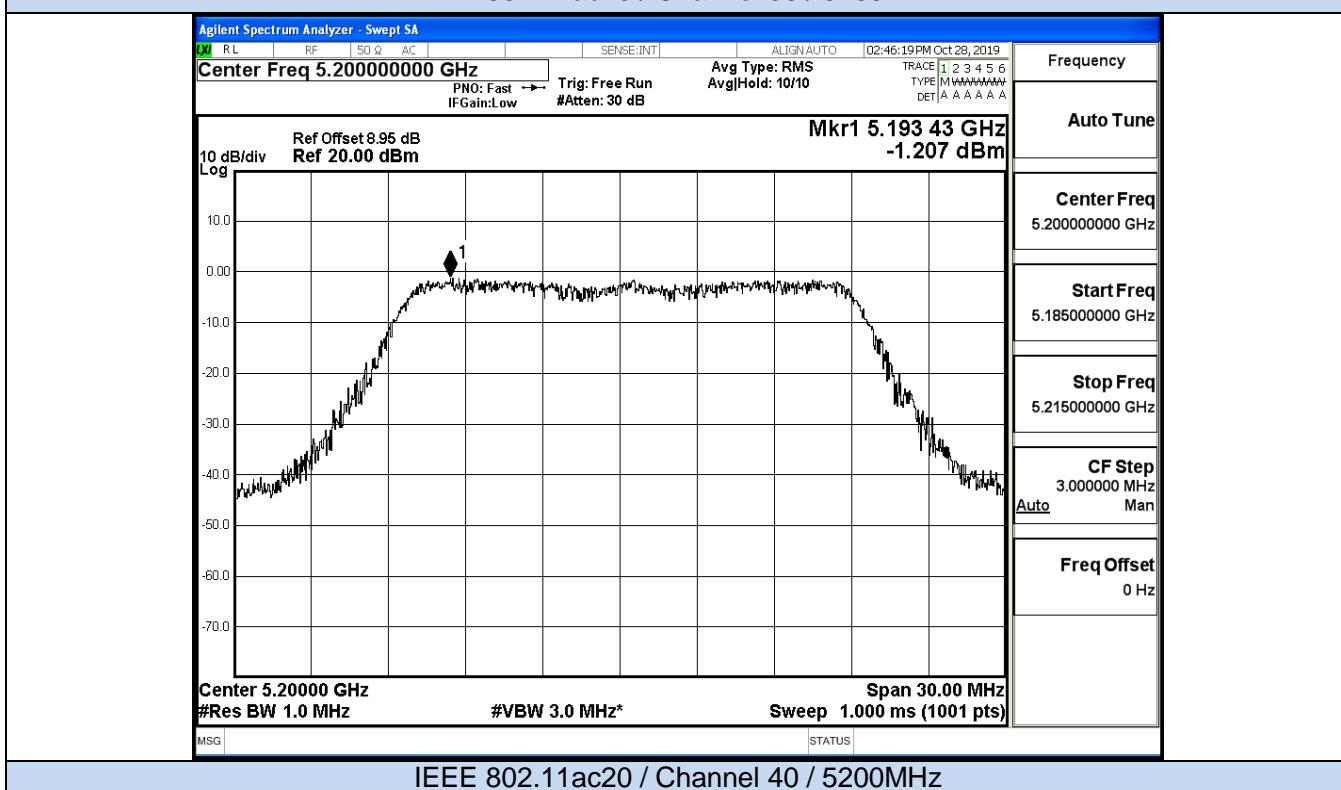
6.000000 MHz

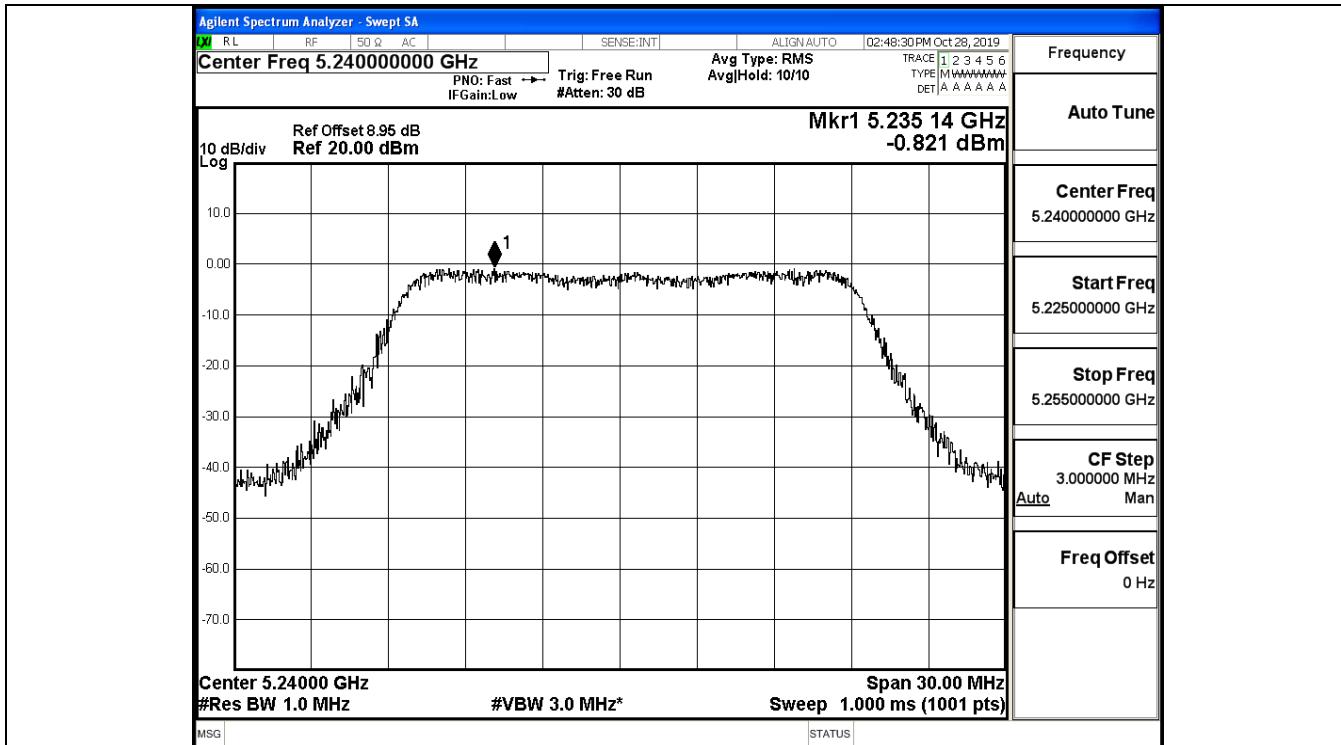
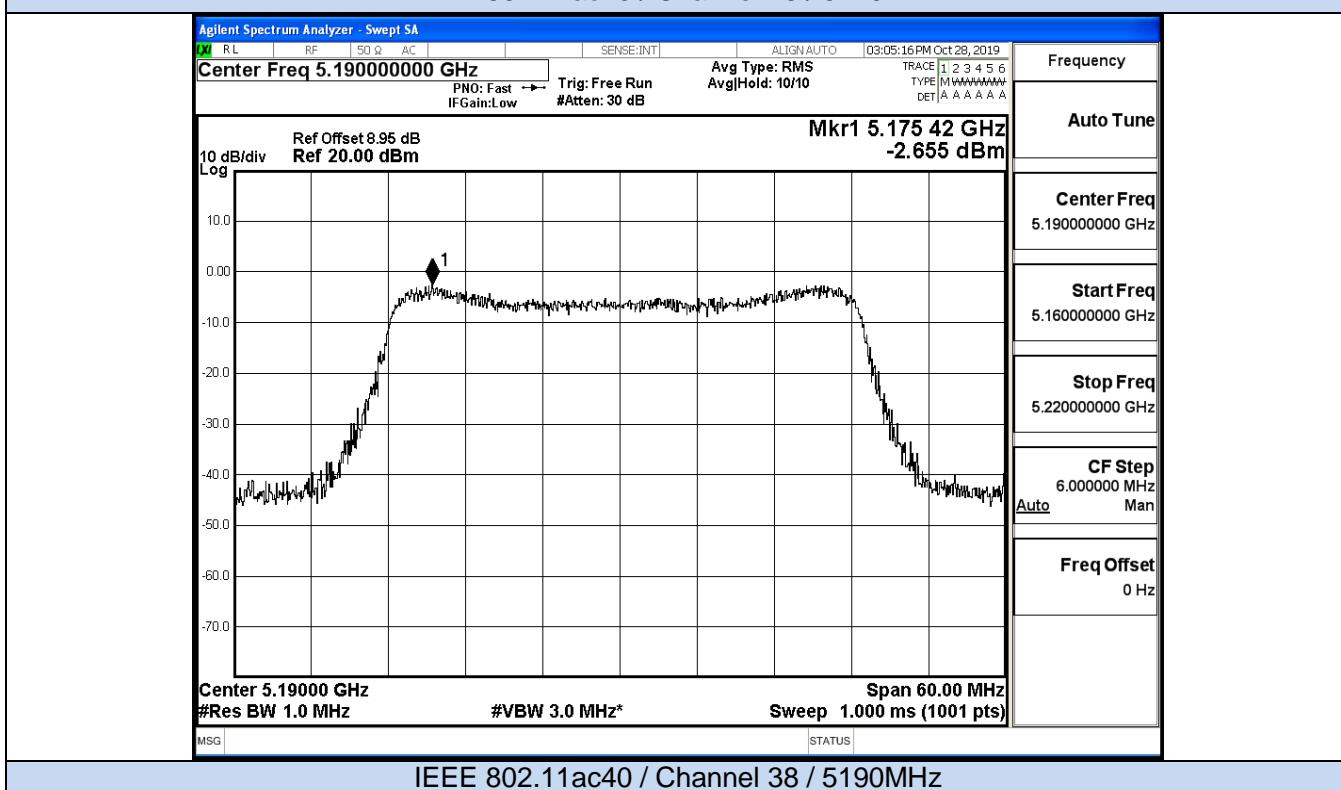
Auto Man

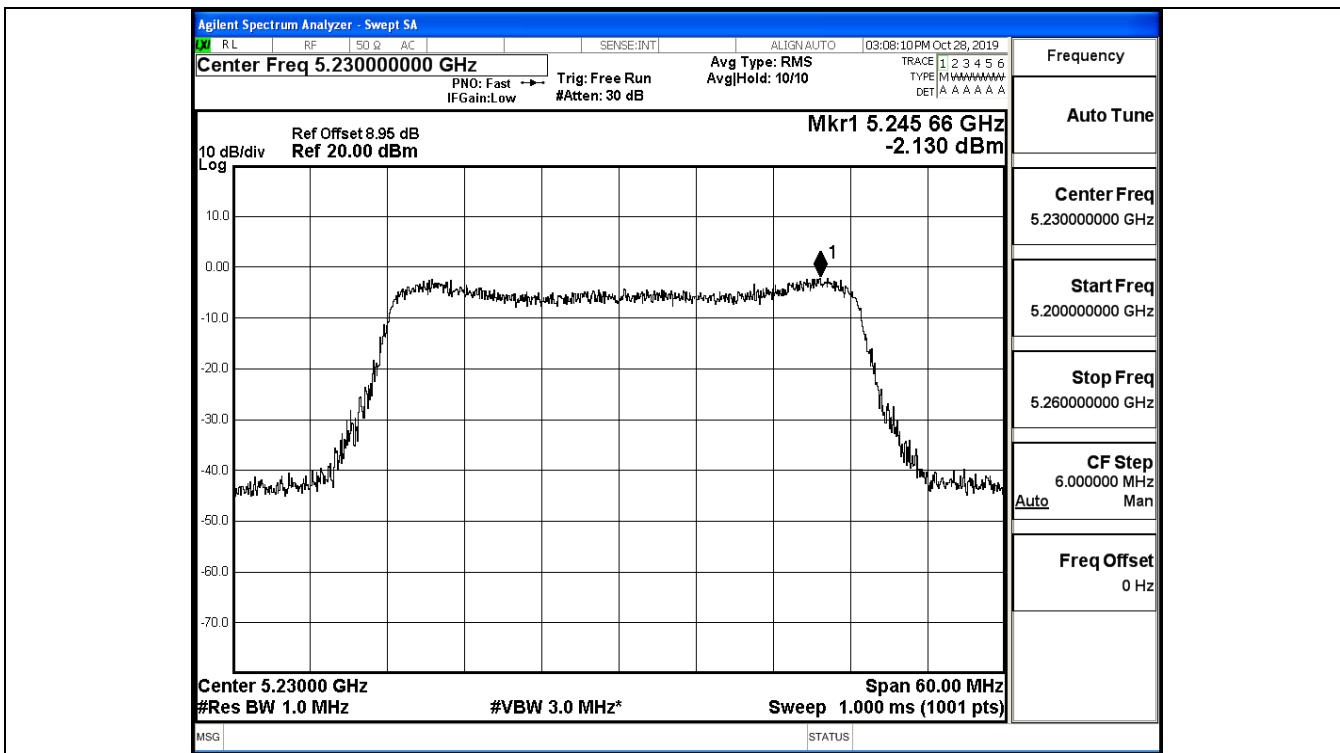
Freq Offset

0 Hz

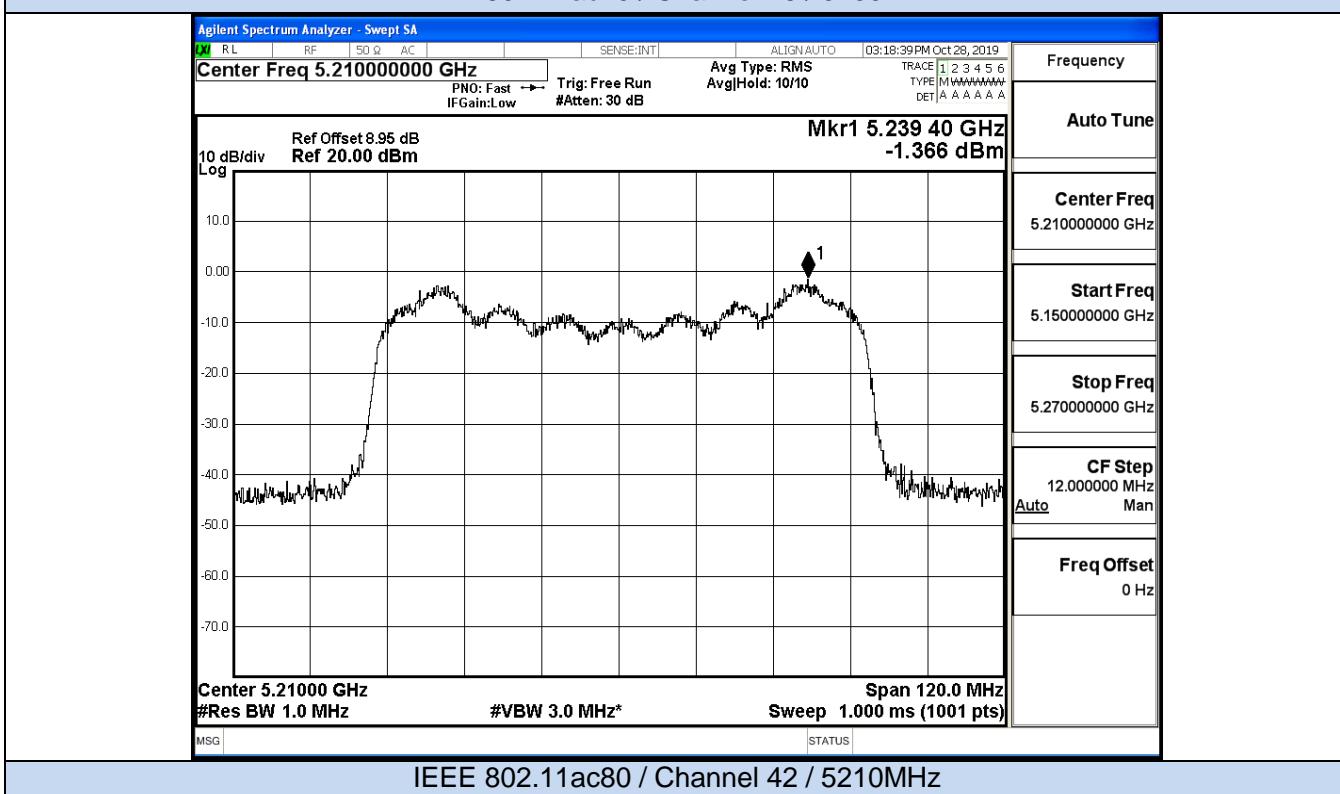
IEEE 802.11n40 / Channel 46 / 5230MHz

**IEEE 802.11ac20 / Channel 36 / 5180MHz****IEEE 802.11ac20 / Channel 40 / 5200MHz**

**IEEE 802.11ac20 / Channel 48 / 5240MHz****IEEE 802.11ac40 / Channel 38 / 5190MHz**

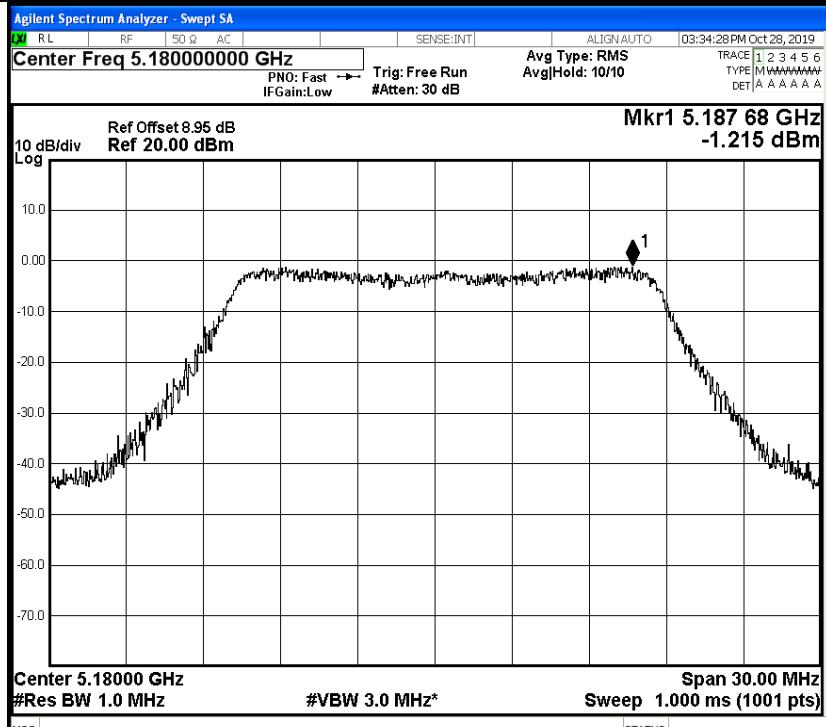


IEEE 802.11ac40 / Channel 46 / 5230MHz



IEEE 802.11ac80 / Channel 42 / 5210MHz

Power Spectral Density(Antenna 1)

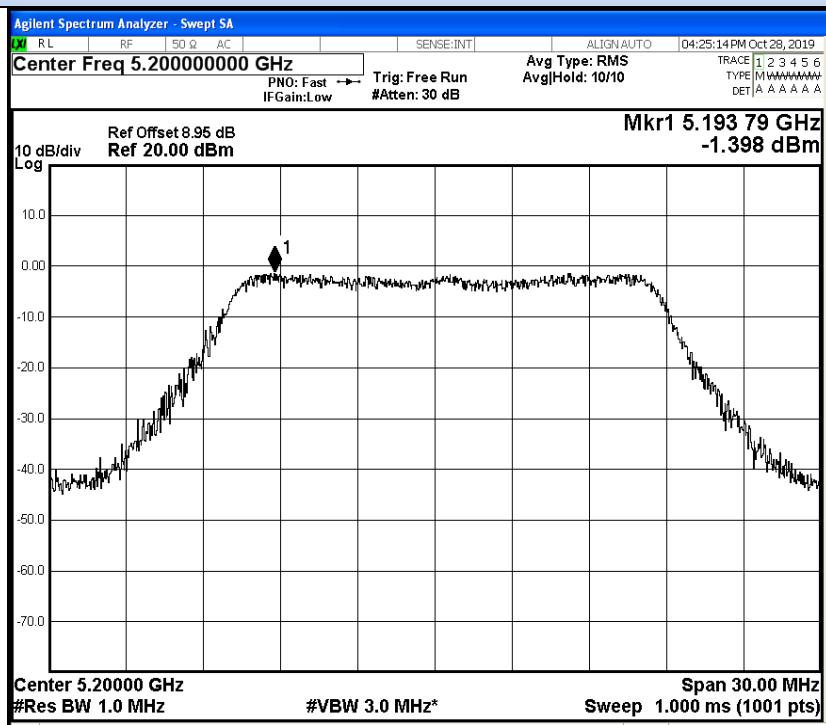


Frequency

Auto Tune

Center Freq
5.180000000 GHzStart Freq
5.185000000 GHzStop Freq
5.195000000 GHzCF Step
3.000000 MHz
Auto ManFreq Offset
0 Hz

IEEE 802.11a / Channel 36 / 5180MHz

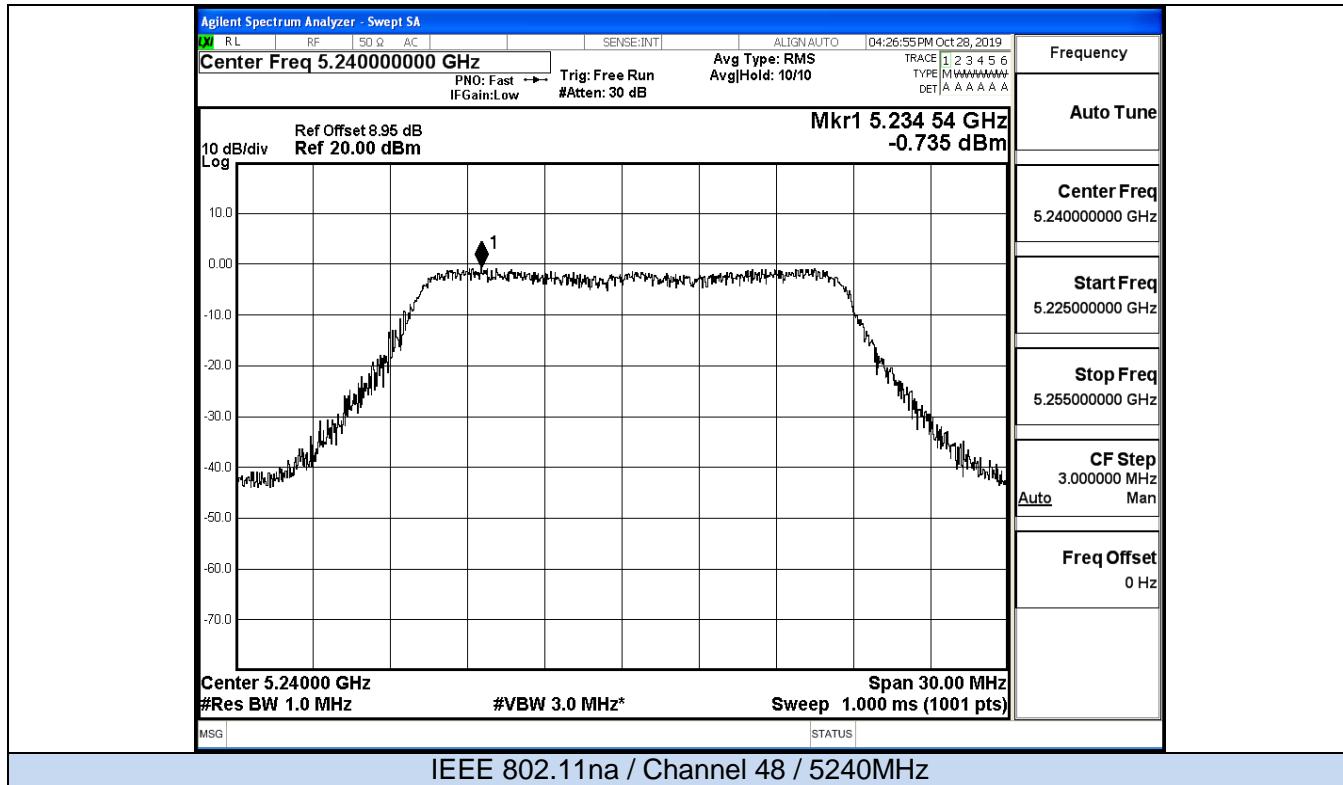


Frequency

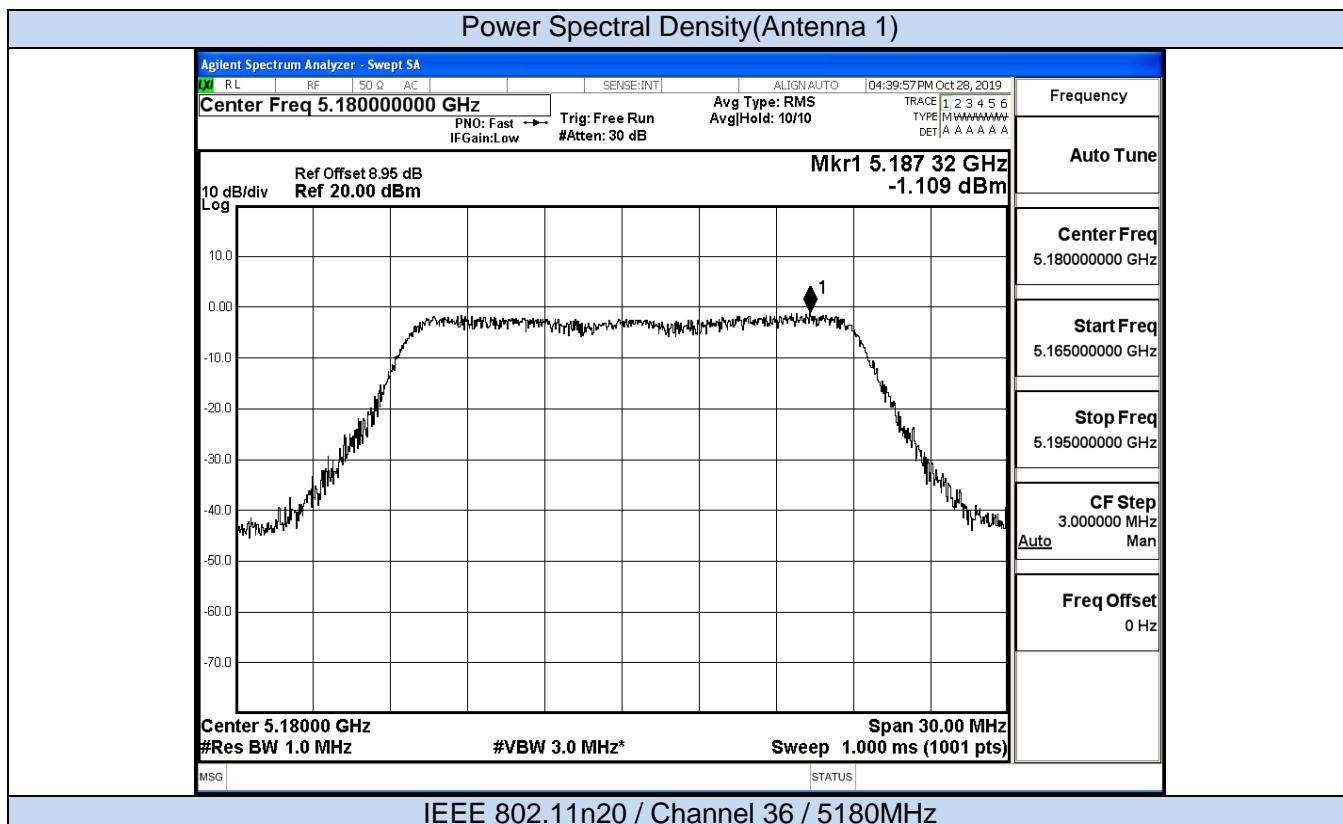
Auto Tune

Center Freq
5.200000000 GHzStart Freq
5.185000000 GHzStop Freq
5.215000000 GHzCF Step
3.000000 MHz
Auto ManFreq Offset
0 Hz

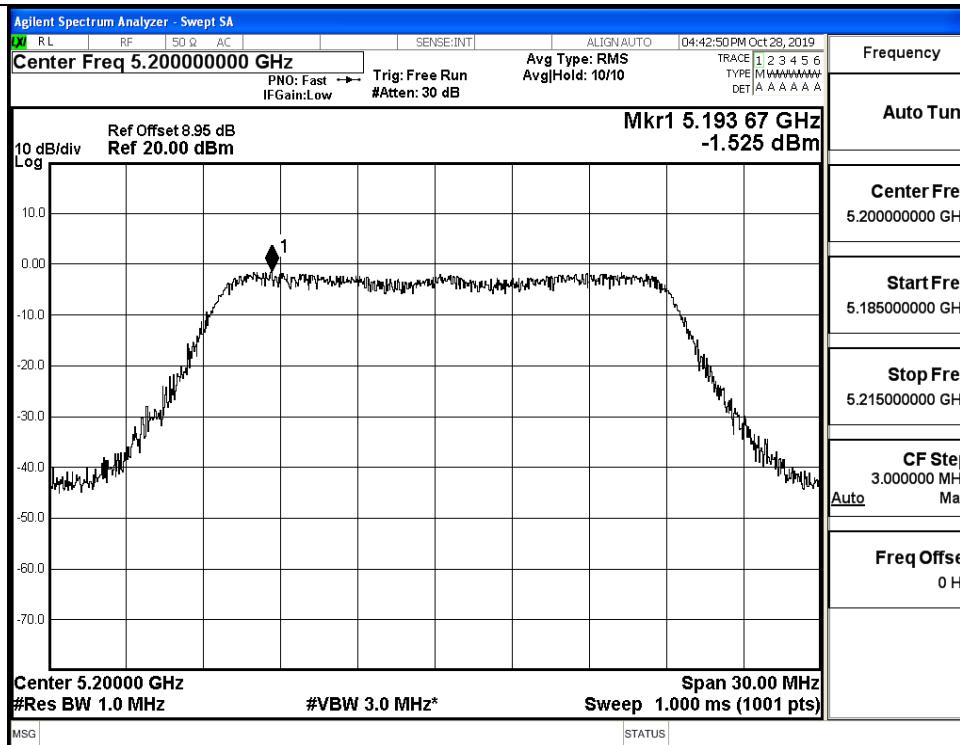
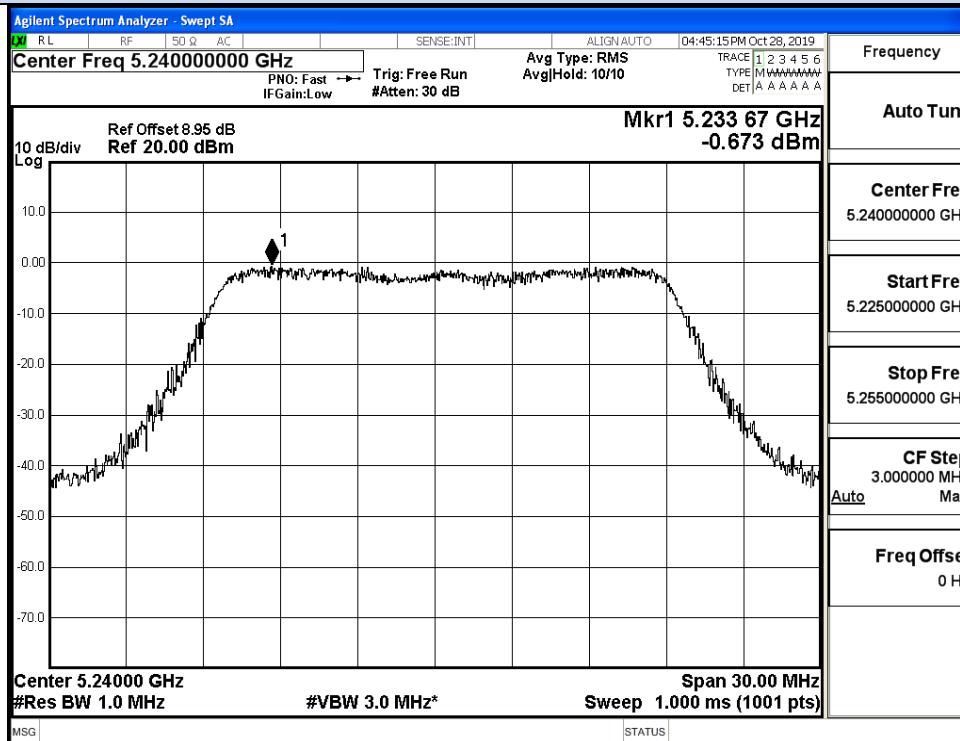
IEEE 802.11na / Channel 40 / 5200MHz



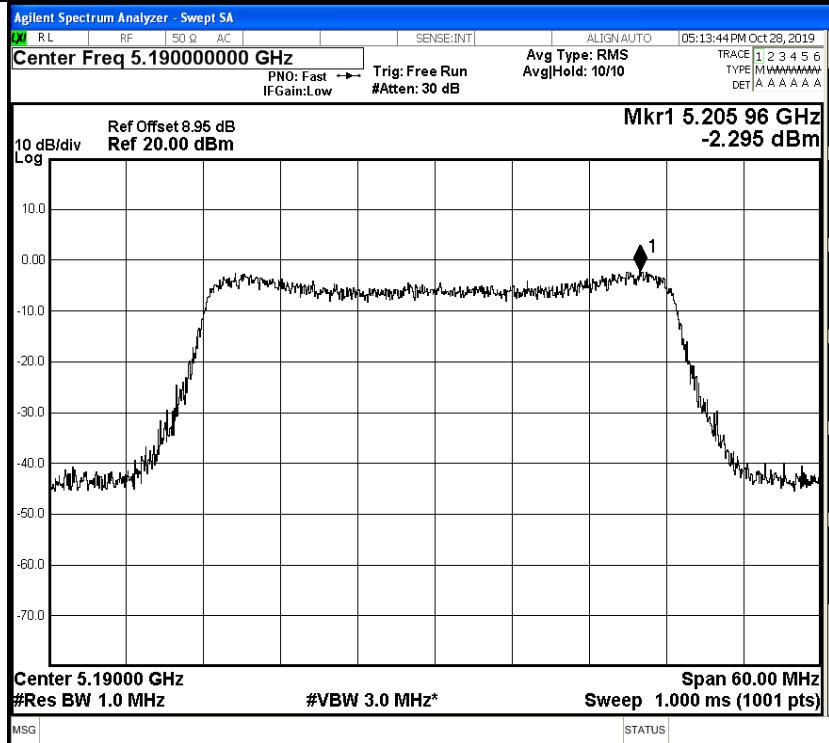
IEEE 802.11na / Channel 48 / 5240MHz



IEEE 802.11n20 / Channel 36 / 5180MHz

**IEEE 802.11n20 / Channel 40 / 5200MHz****IEEE 802.11n20 / Channel 48 / 5240MHz**

Power Spectral Density(Antenna 1)



Frequency

Auto Tune

Center Freq

5.190000000 GHz

Start Freq

5.160000000 GHz

Stop Freq

5.220000000 GHz

CF Step

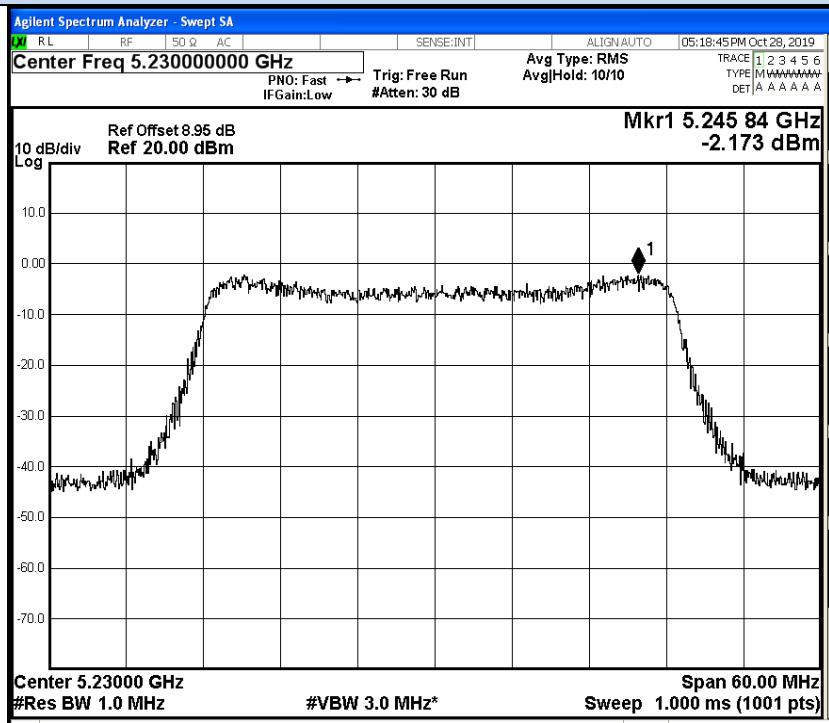
6.000000 MHz

Auto Man

Freq Offset

0 Hz

IEEE 802.11n40 / Channel 38 / 5190MHz



Frequency

Auto Tune

Center Freq

5.230000000 GHz

Start Freq

5.200000000 GHz

Stop Freq

5.260000000 GHz

CF Step

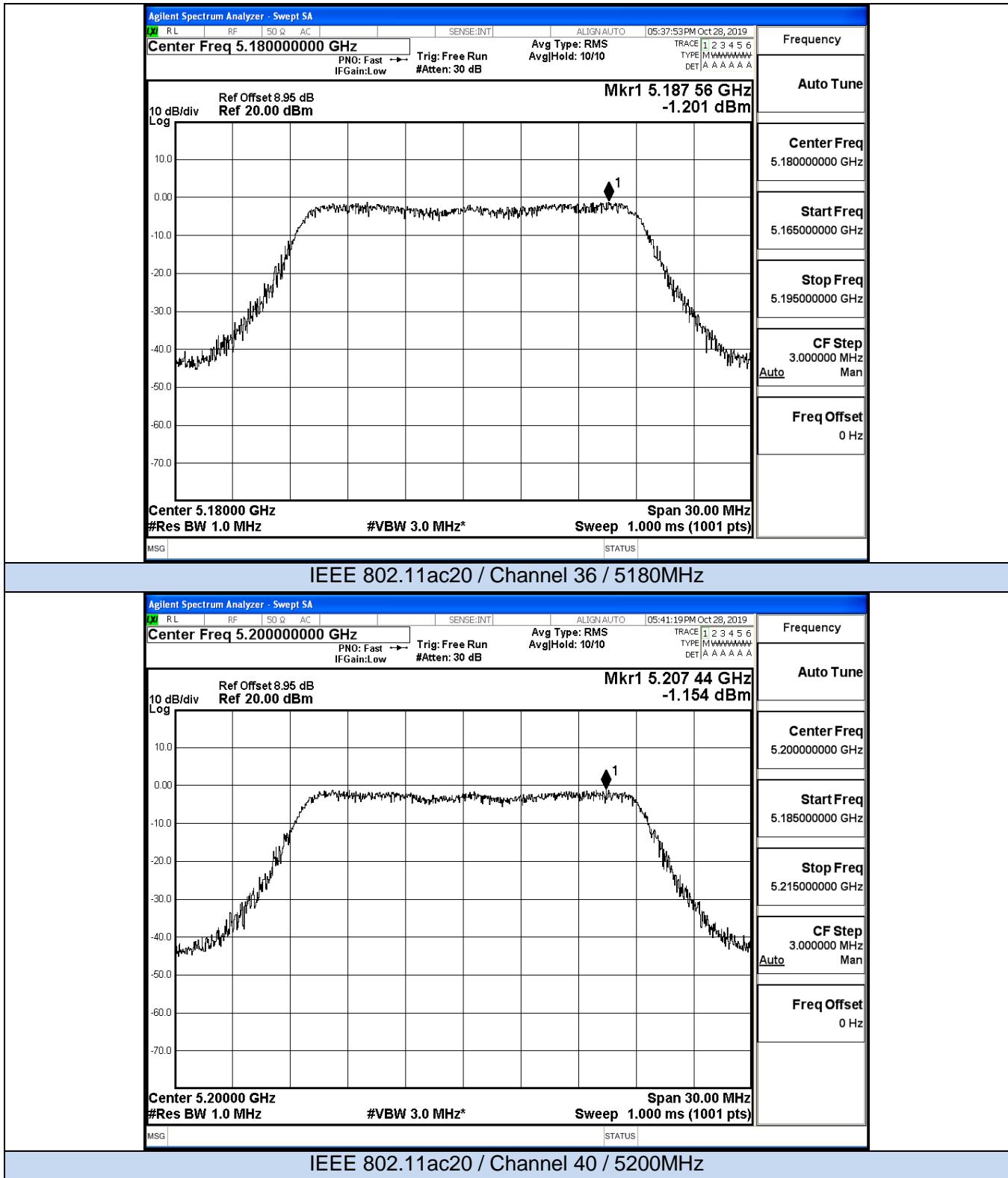
6.000000 MHz

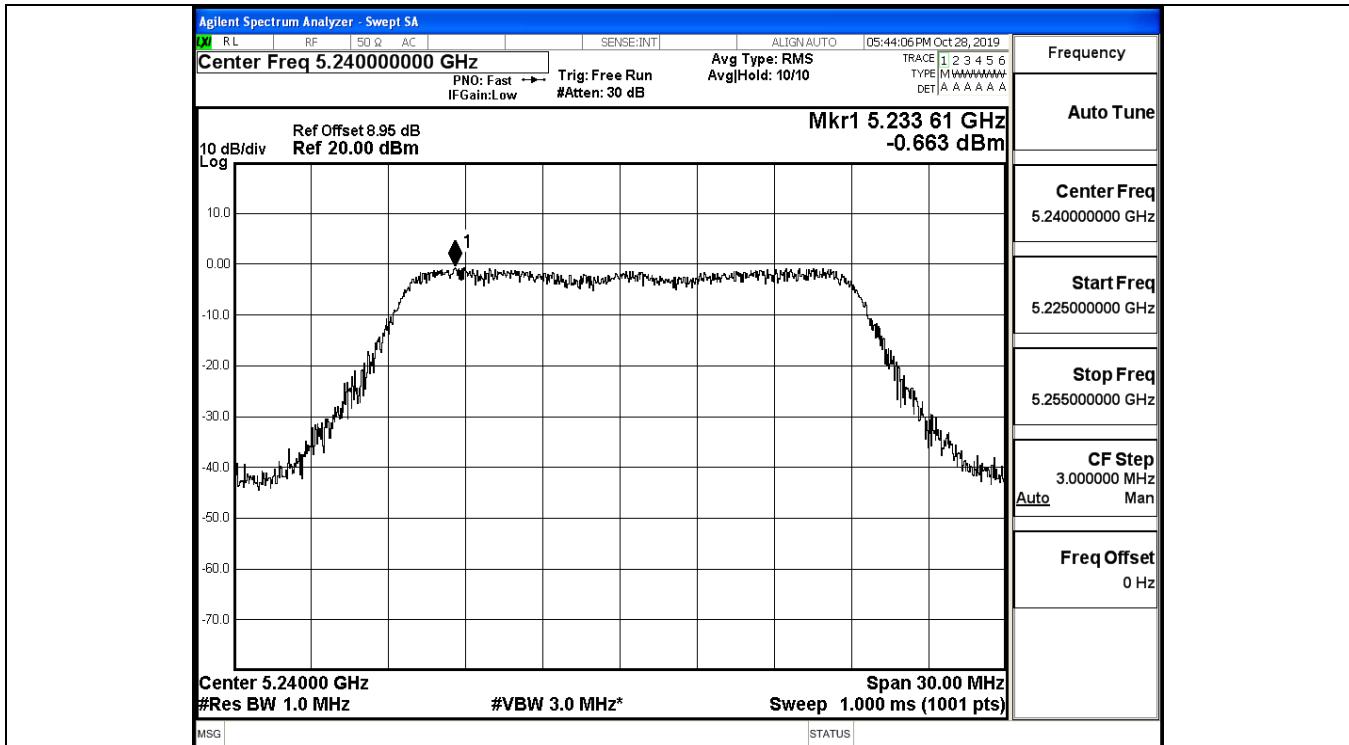
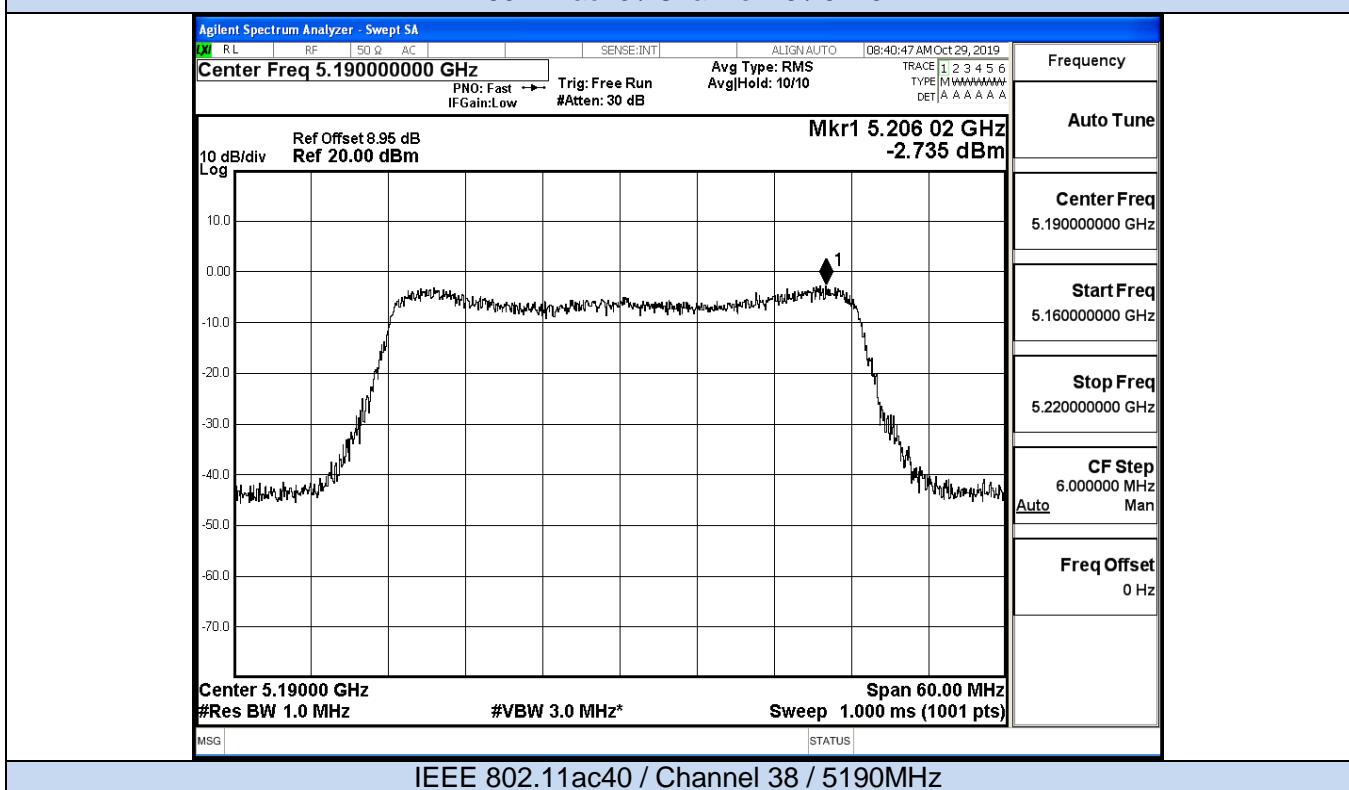
Auto Man

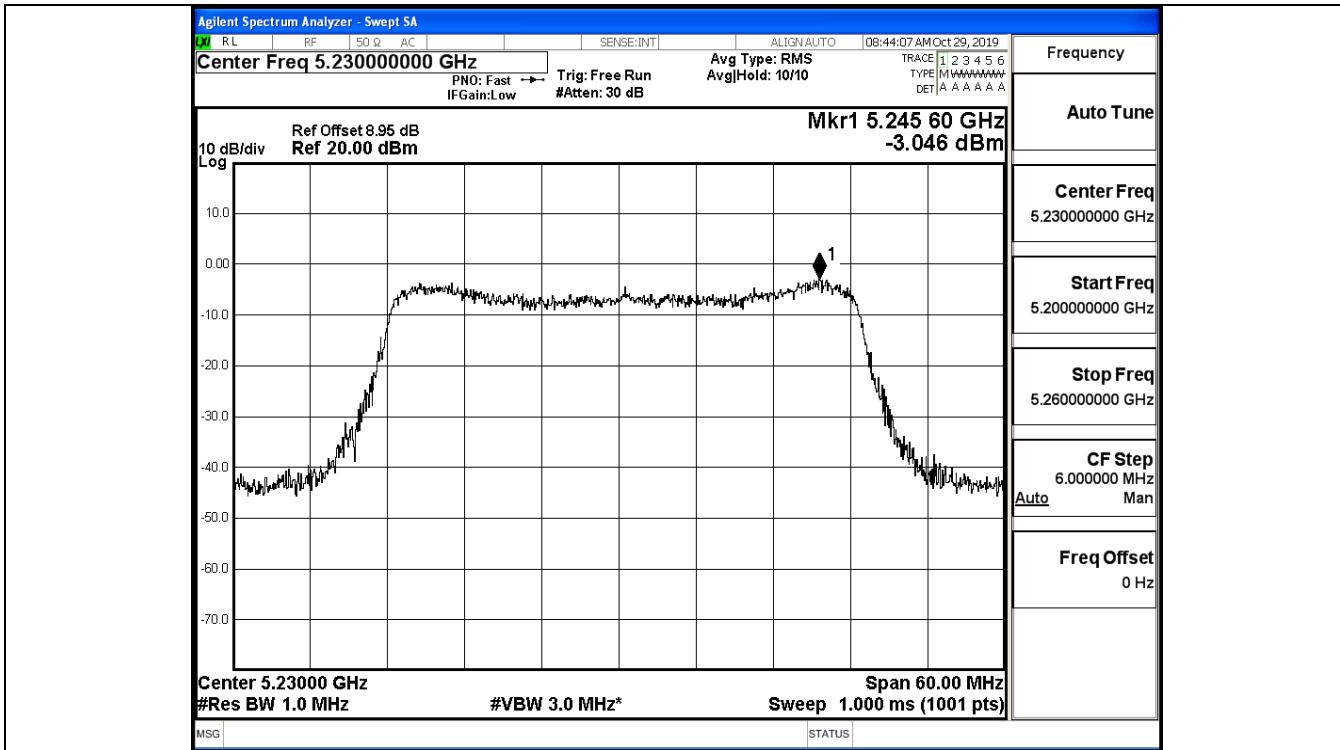
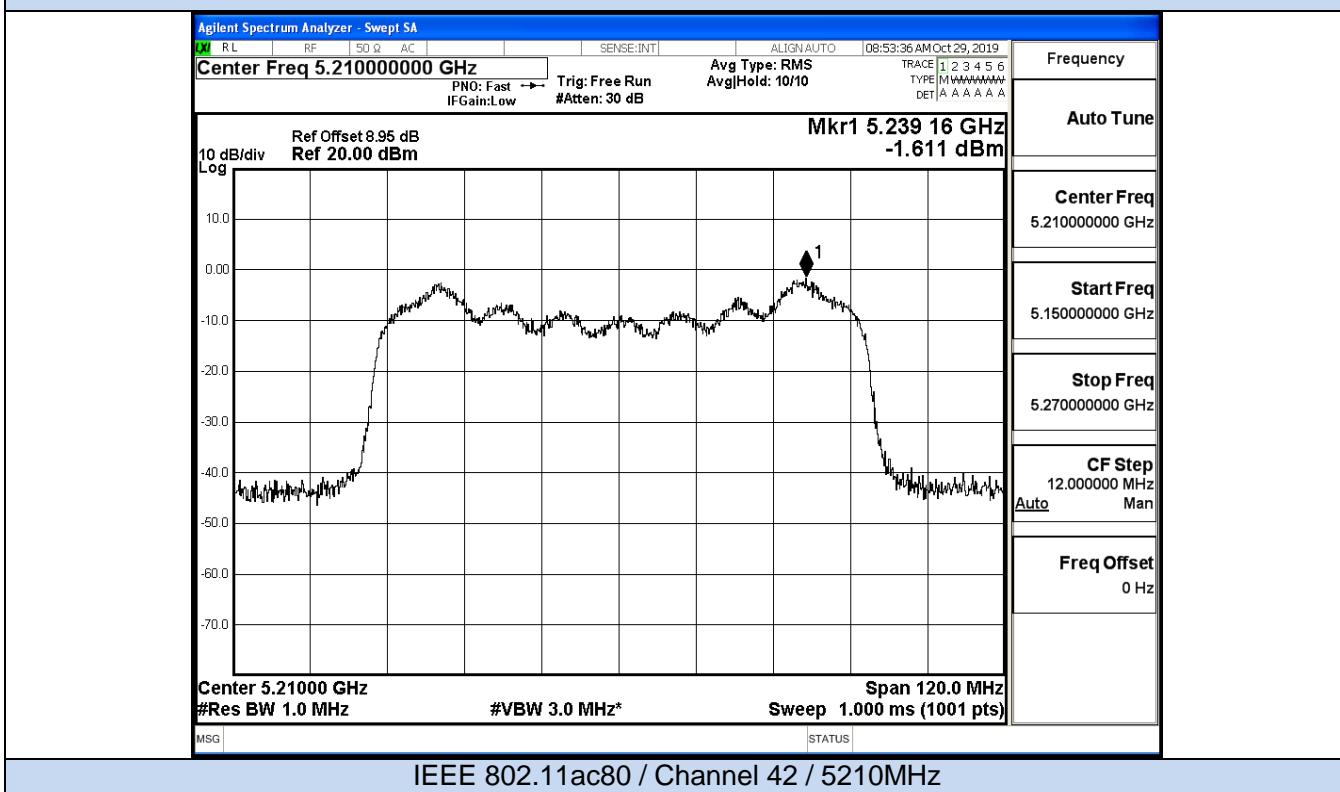
Freq Offset

0 Hz

IEEE 802.11n40 / Channel 46 / 5230MHz



**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

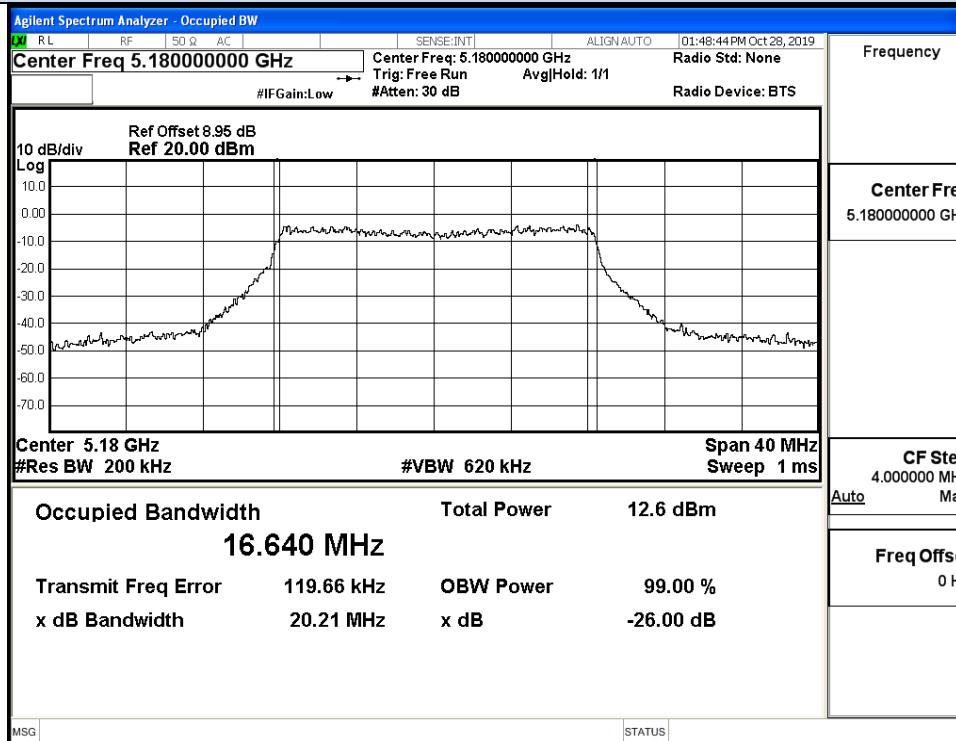
Antenna 0

Test Mode	Channel	Frequency (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
11A	36	5180	20.21	No Limit	Pass
	40	5200	20.07		Pass
	48	5240	20.30		Pass
11N20 SISO	36	5180	20.93	No Limit	Pass
	40	5200	20.87		Pass
	48	5240	20.83		Pass
11N40 SISO	38	5190	40.44	No Limit	Pass
	46	5230	40.57		Pass
11AC20 SISO	36	5180	20.95	No Limi	Pass
	40	5200	20.95		Pass
	48	5240	20.82		Pass
11AC40 SISO	38	5190	40.78	No Limi	Pass
	46	5230	40.42		Pass
11AC80 SISO	42	5210	78.70	No Limi	Pass

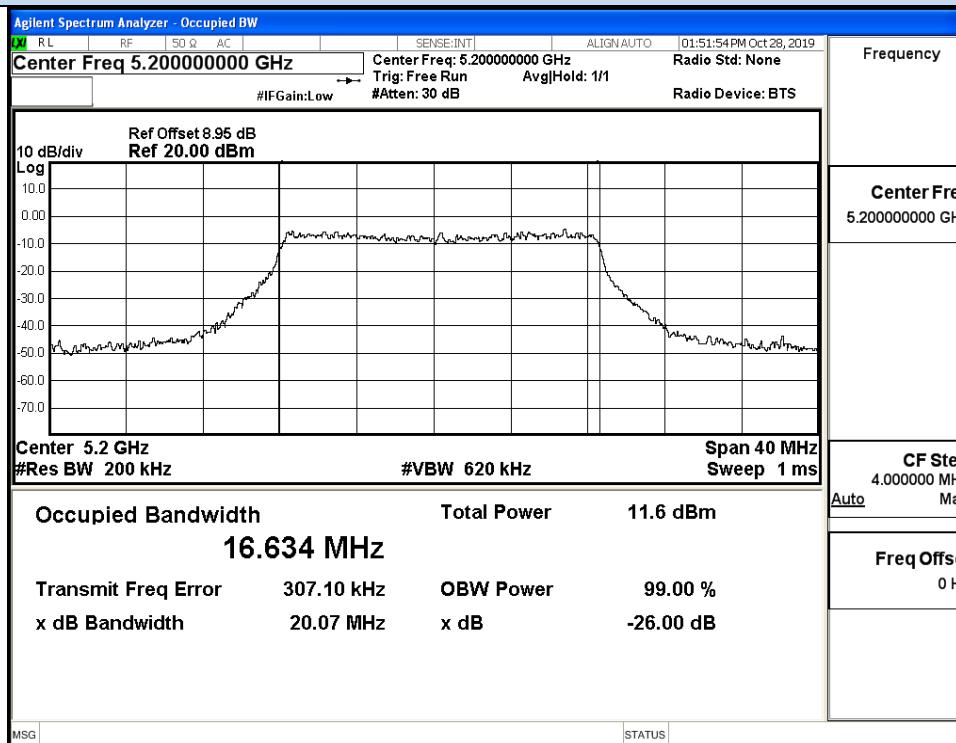
Antenna 1

Test Mode	Channel	Frequency (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
11A	36	5180	20.02	No Limit	Pass
	40	5200	20.27		Pass
	48	5240	20.19		Pass
11N20 SISO	36	5180	21.16	No Limit	Pass
	40	5200	21.02		Pass
	48	5240	21.04		Pass
11N40 SISO	38	5190	40.35	No Limit	Pass
	46	5230	40.84		Pass
11AC20 SISO	36	5180	21.11	No Limi	Pass
	40	5200	20.91		Pass
	48	5240	20.78		Pass
11AC40 SISO	38	5190	40.50	No Limi	Pass
	46	5230	40.47		Pass
11AC80 SISO	42	5210	78.61	No Limi	Pass

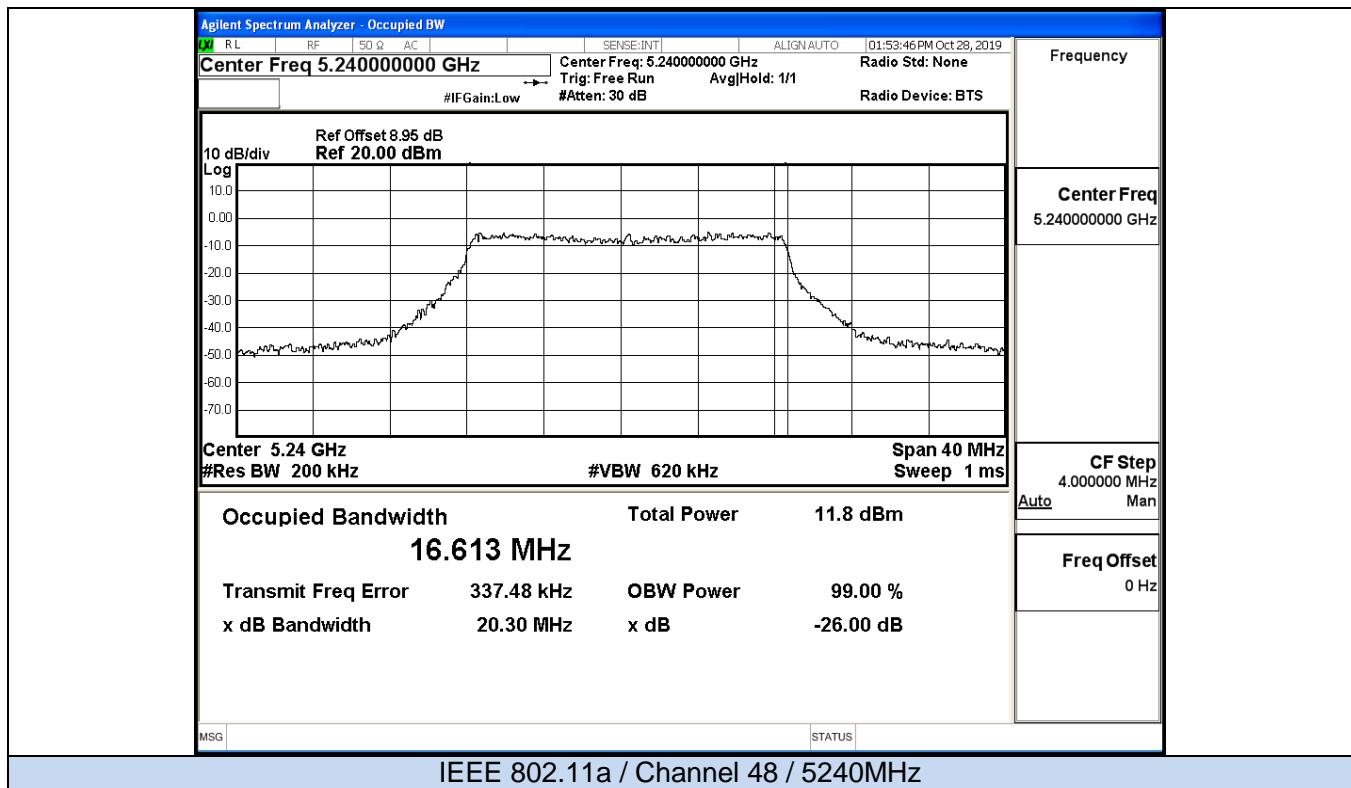
26dB Bandwidth(Antenna 0)



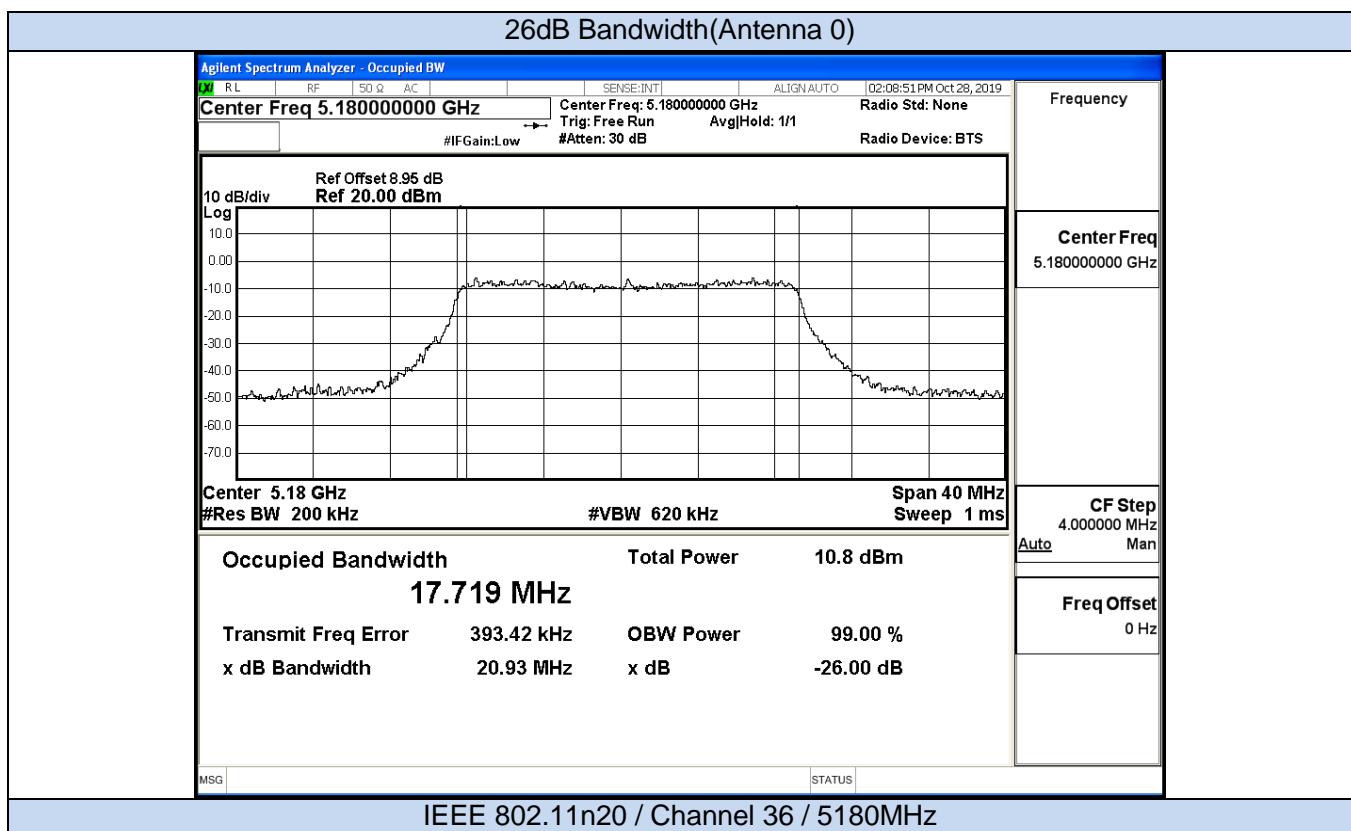
IEEE 802.11a / Channel 36 / 5180MHz



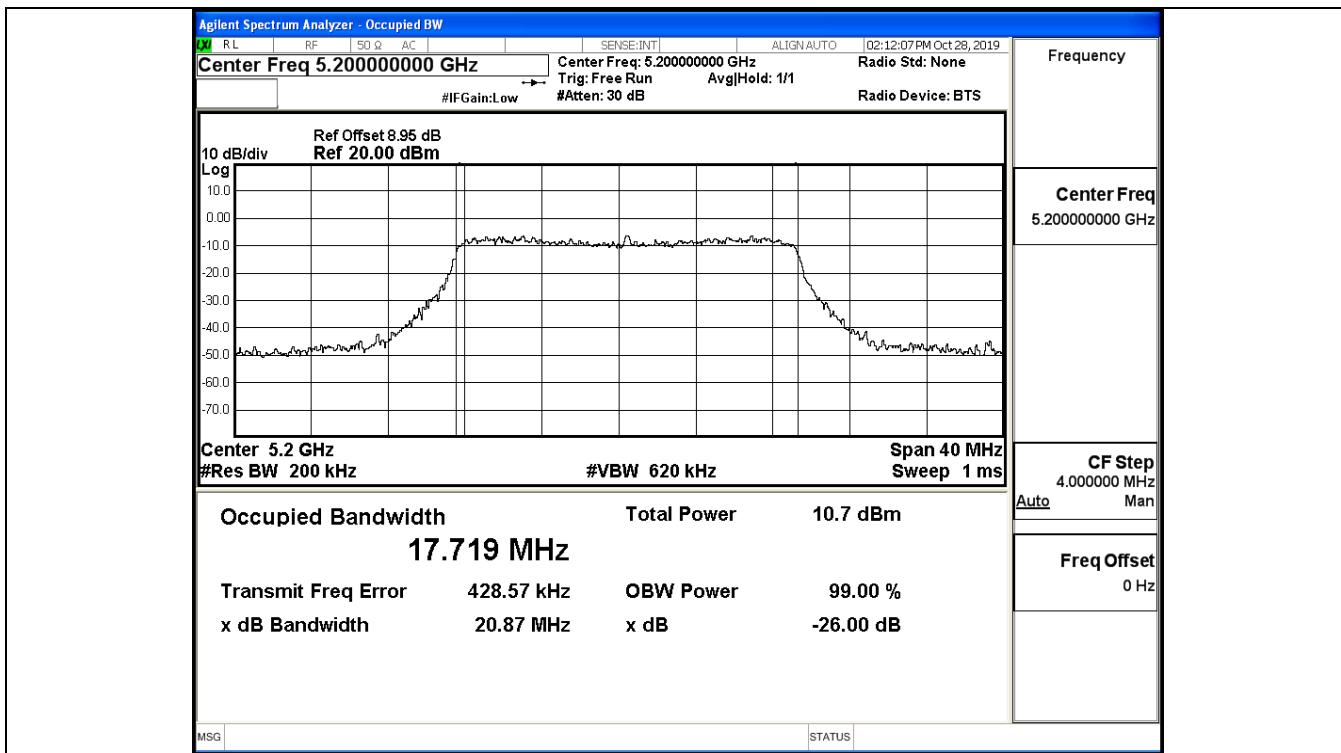
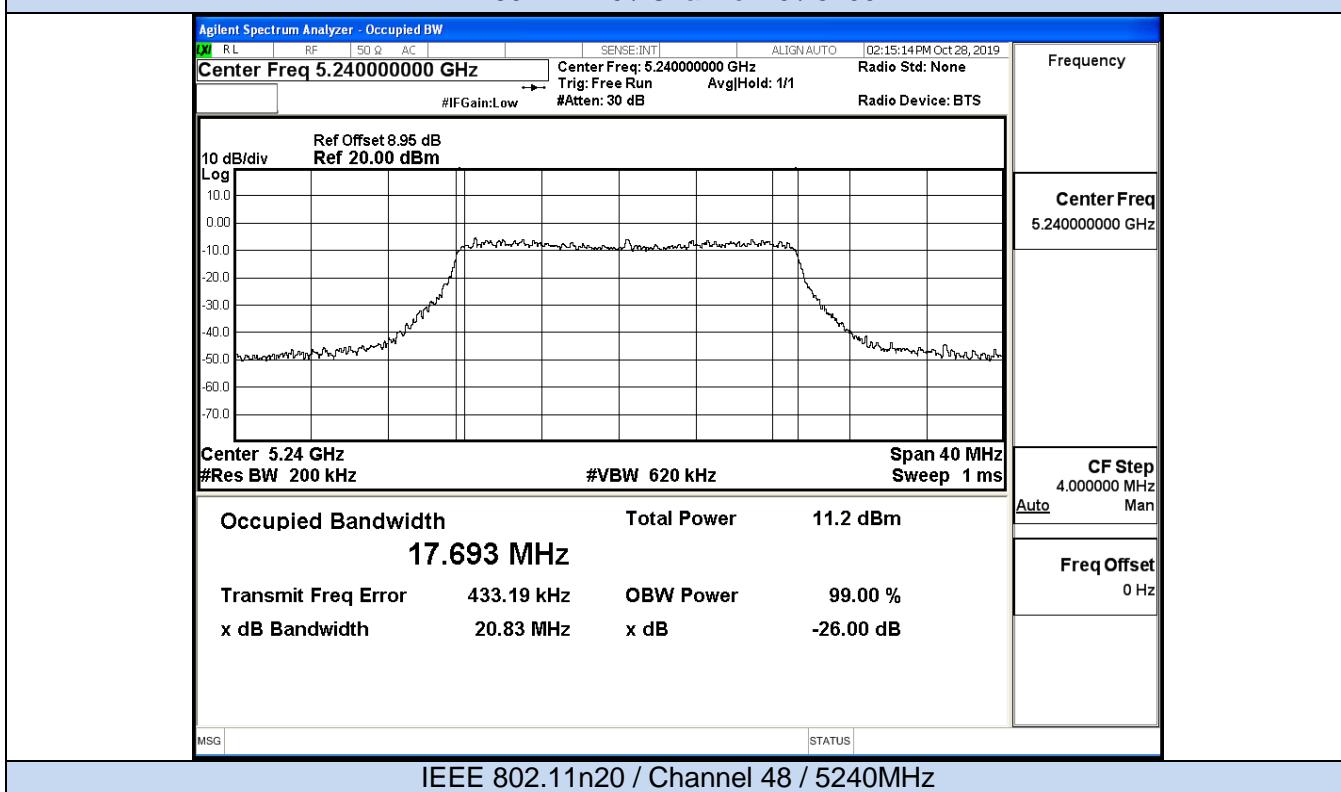
IEEE 802.11a / Channel 40 / 5200MHz



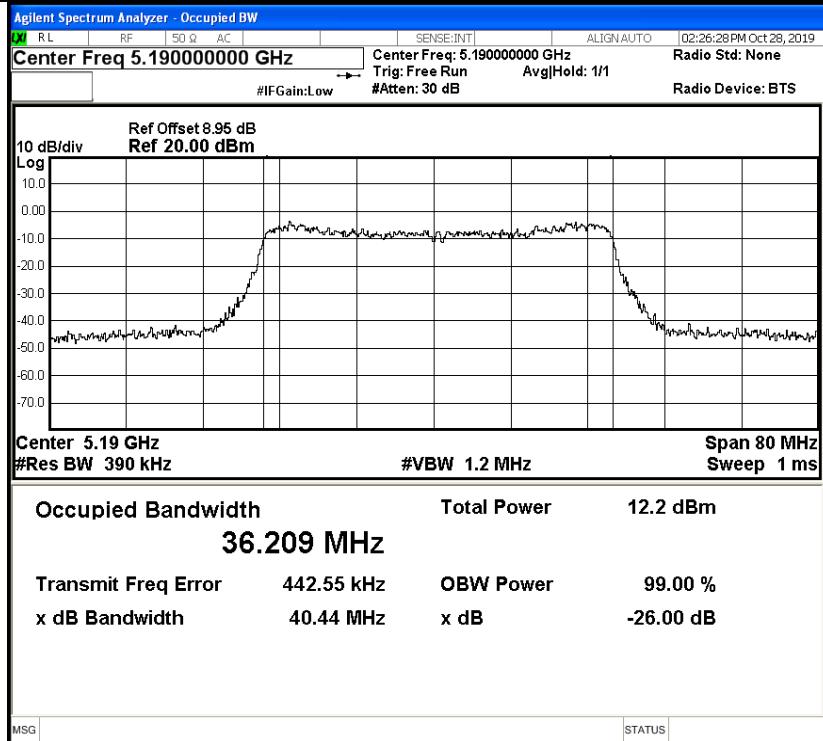
IEEE 802.11a / Channel 48 / 5240MHz



IEEE 802.11n20 / Channel 36 / 5180MHz

**IEEE 802.11n20 / Channel 40 / 5200MHz****IEEE 802.11n20 / Channel 48 / 5240MHz**

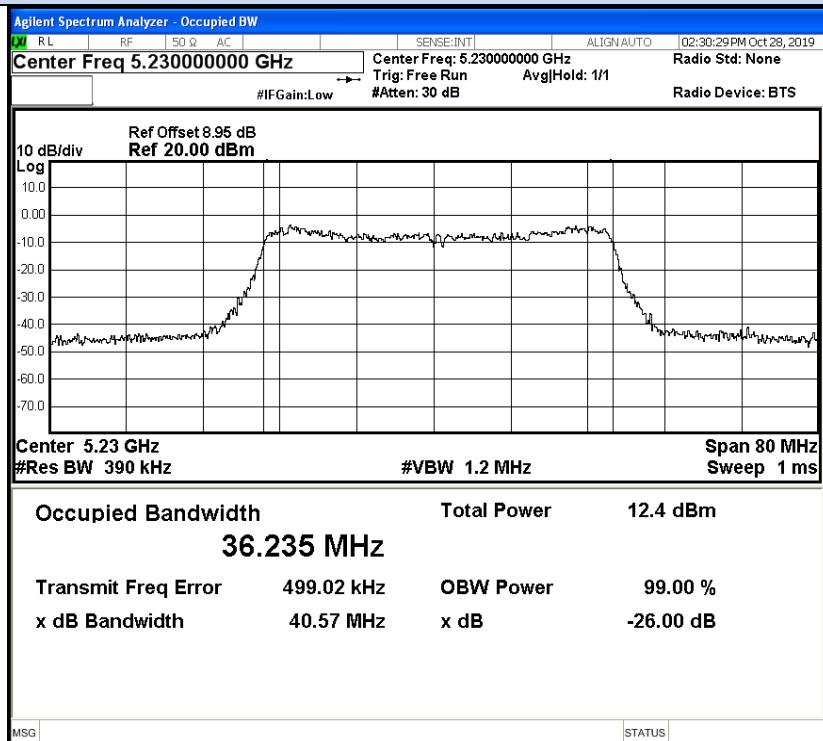
26dB Bandwidth(Antenna 0)



Frequency

Center Freq
5.190000000 GHzCF Step
8.00000 MHz
Auto ManFreq Offset
0 Hz

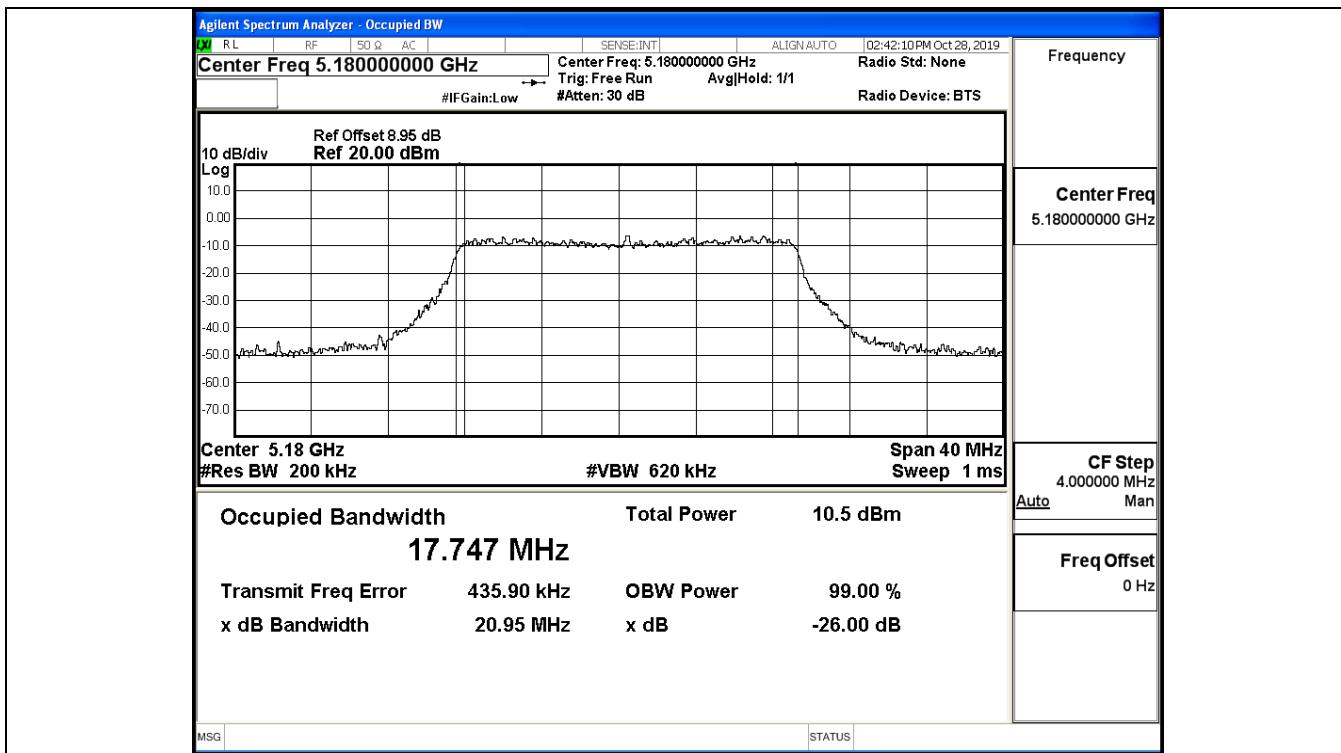
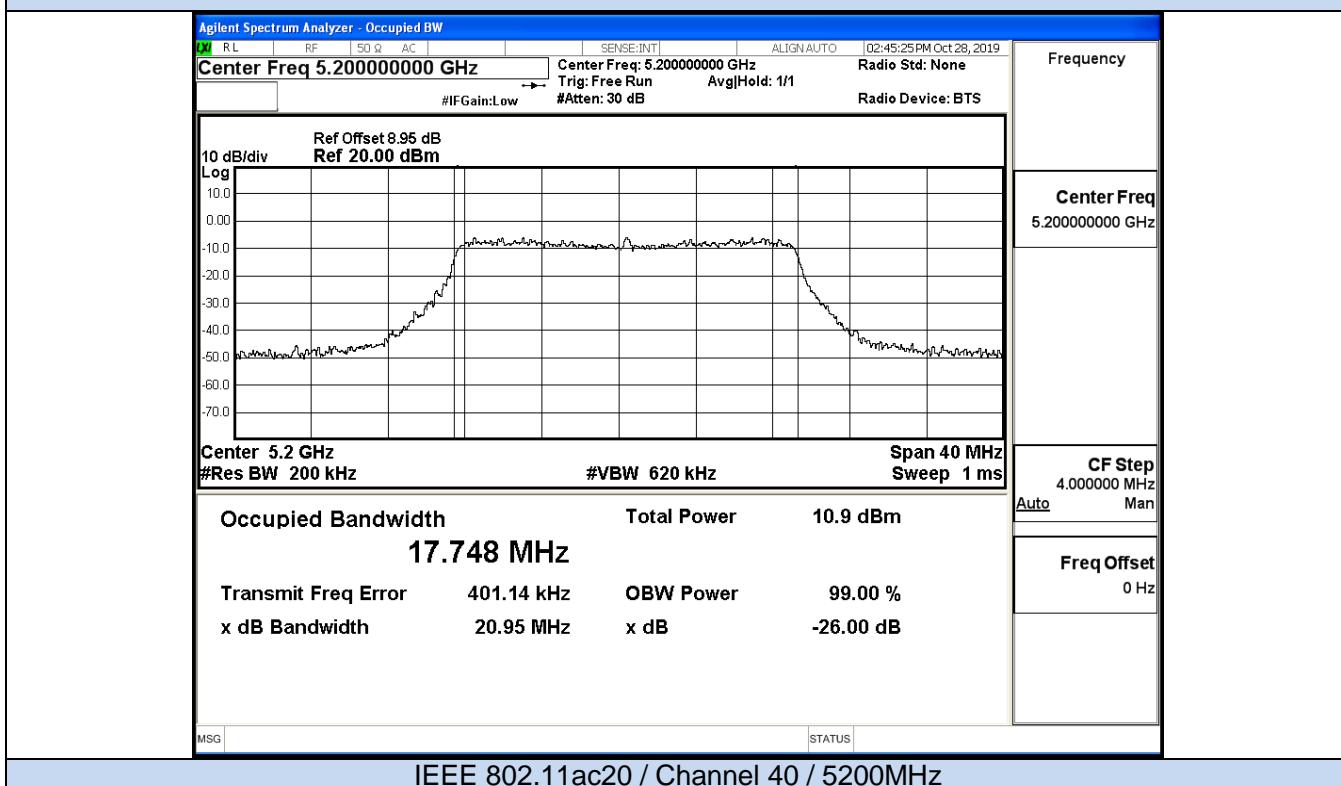
IEEE 802.11n40 / Channel 38 / 5190MHz

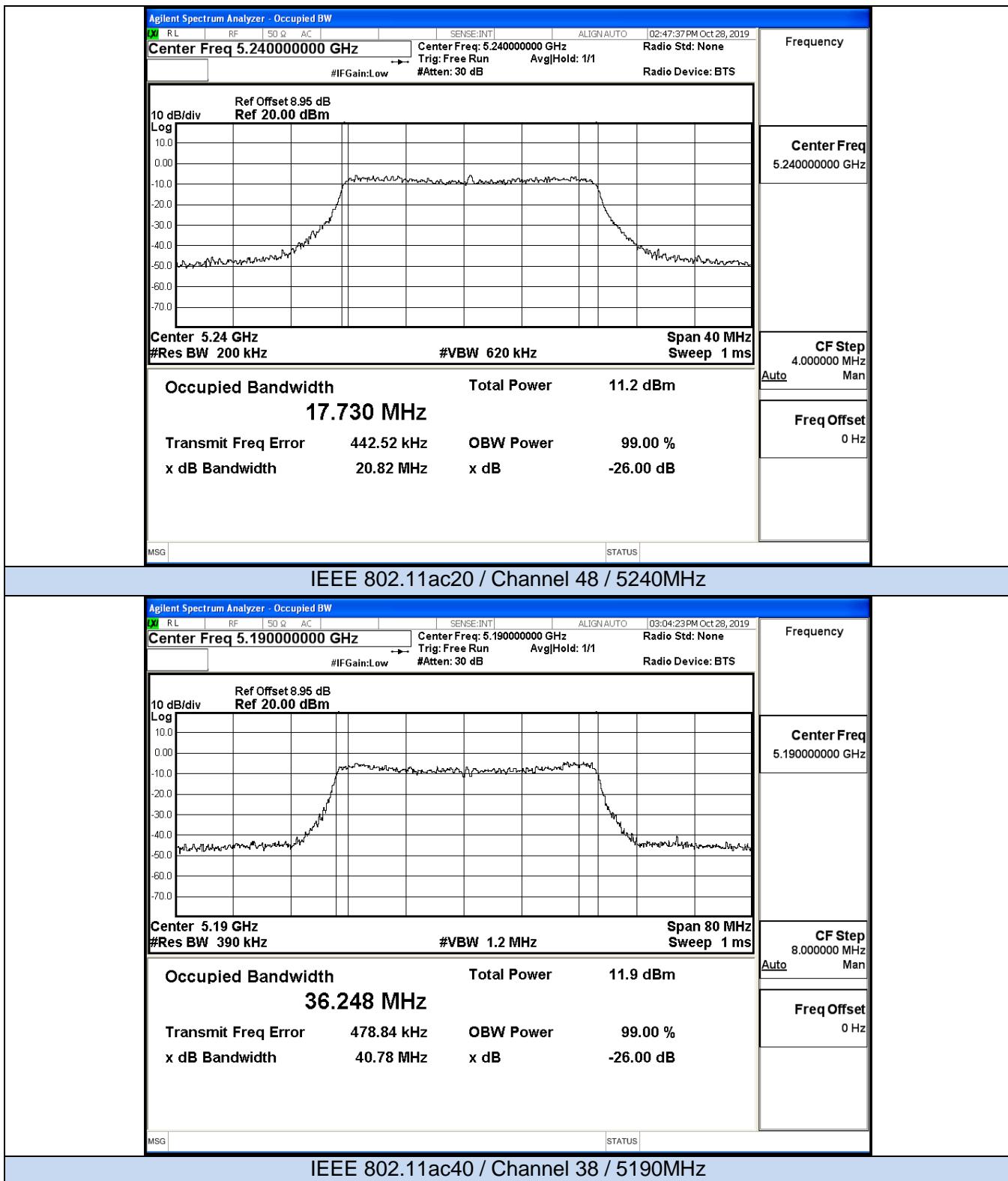


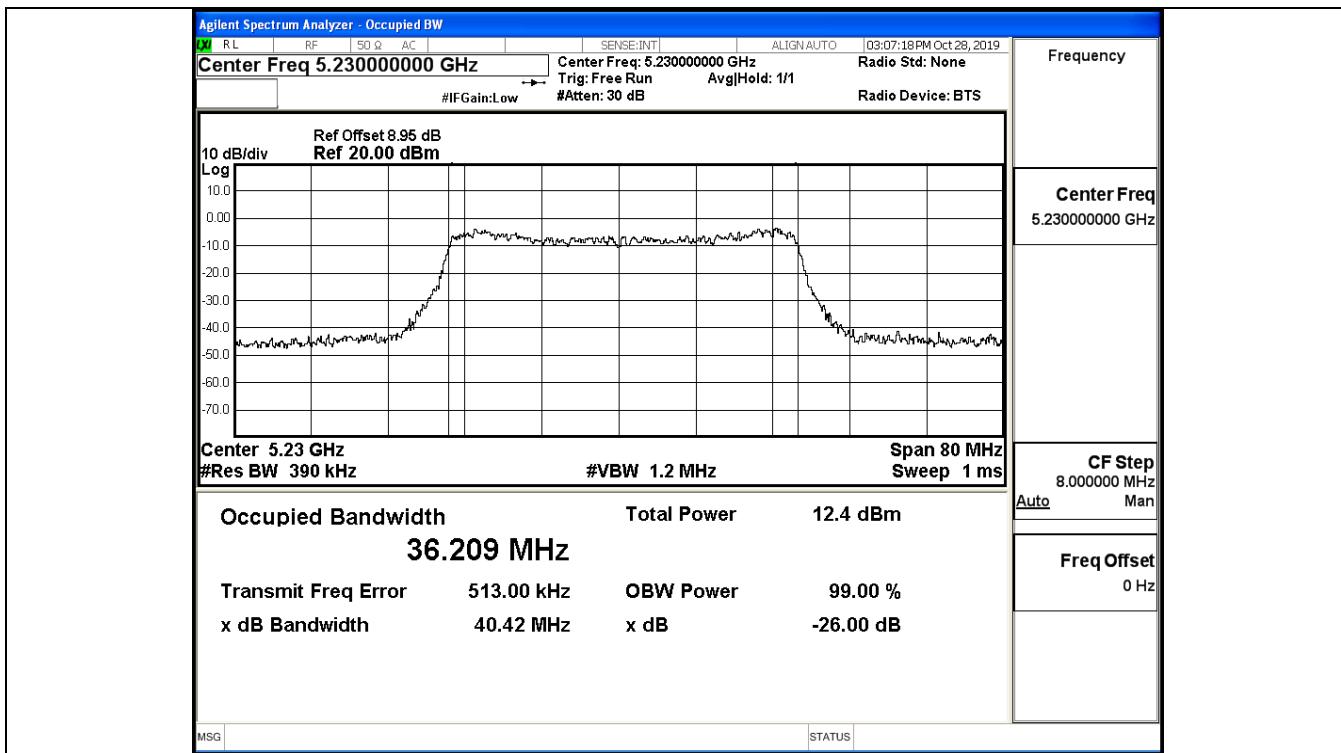
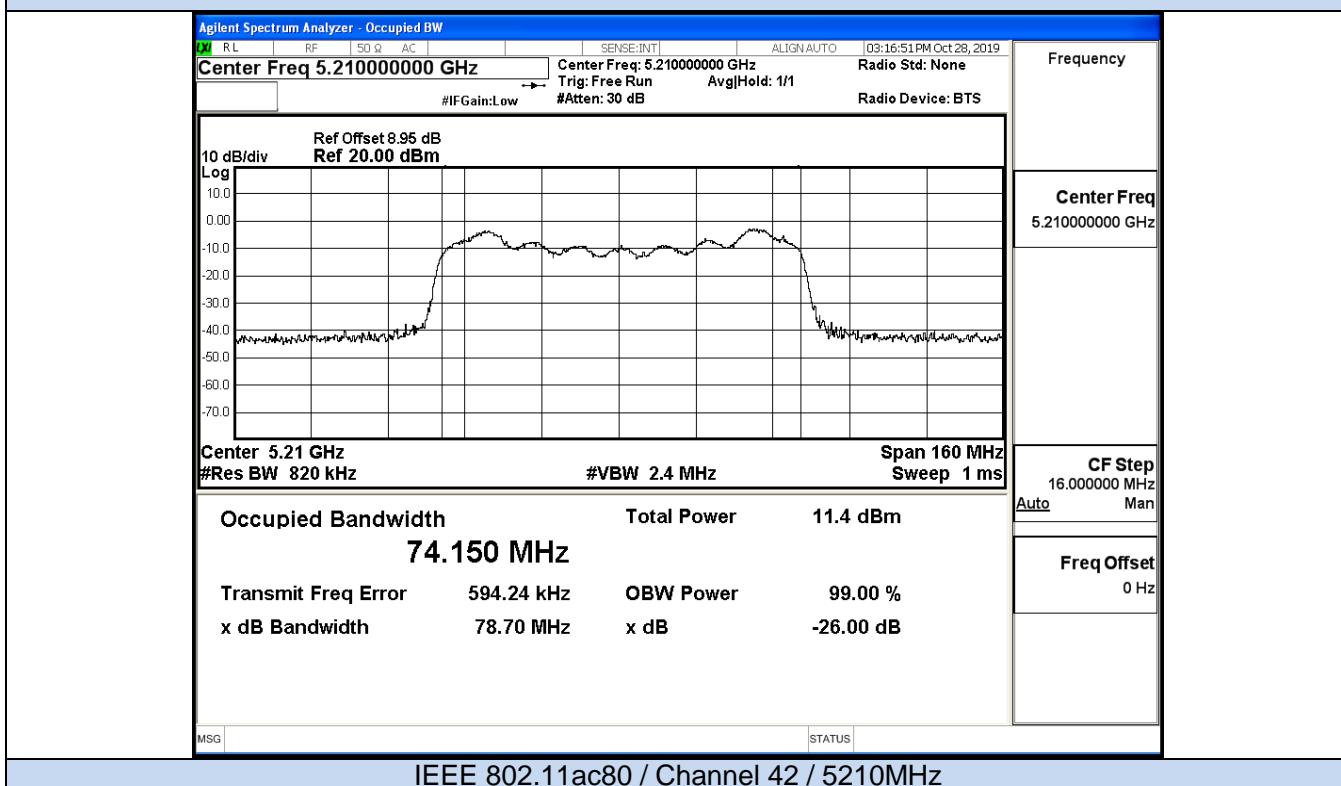
Frequency

Center Freq
5.230000000 GHzCF Step
8.00000 MHz
Auto ManFreq Offset
0 Hz

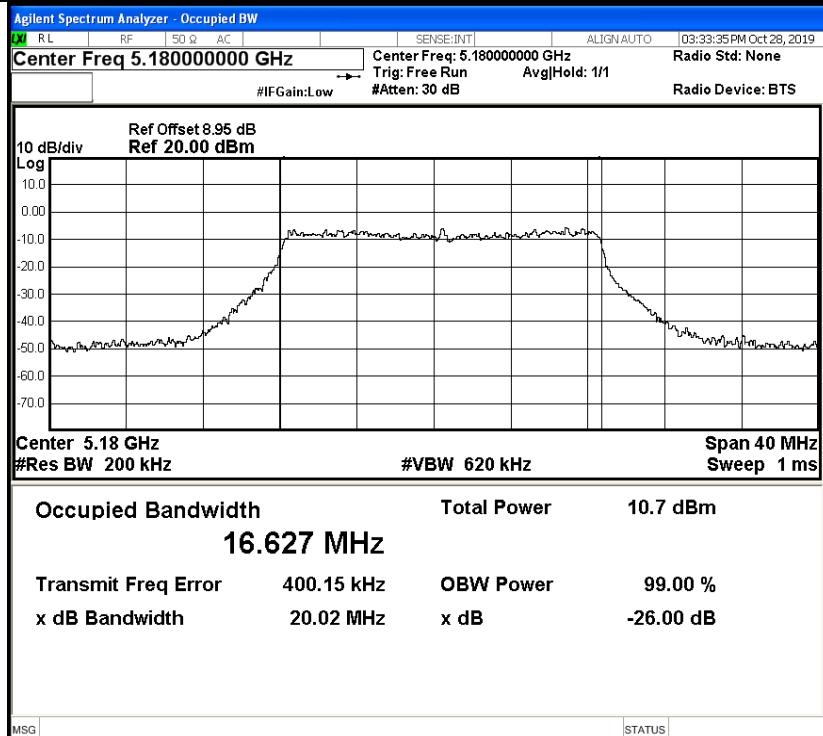
IEEE 802.11n40 / Channel 46 / 5230MHz

**IEEE 802.11ac20 / Channel 36 / 5180MHz****IEEE 802.11ac20 / Channel 40 / 5200MHz**



**IEEE 802.11ac40 / Channel 46 / 5230MHz****IEEE 802.11ac80 / Channel 42 / 5210MHz**

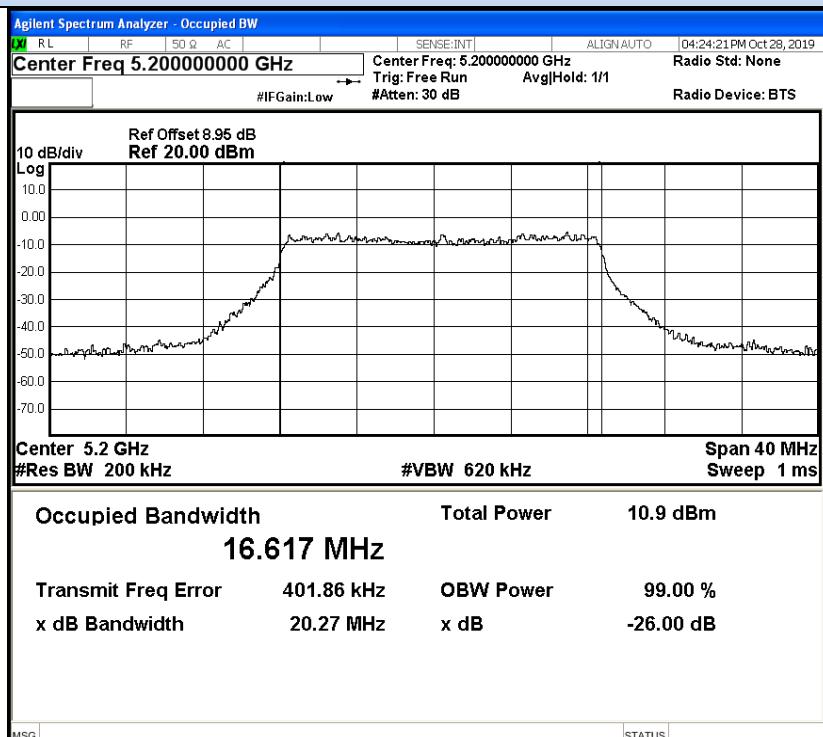
26dB Bandwidth(Antenna 1)



Frequency

Center Freq
5.180000000 GHzCF Step
4.000000 MHz
Auto ManFreq Offset
0 Hz

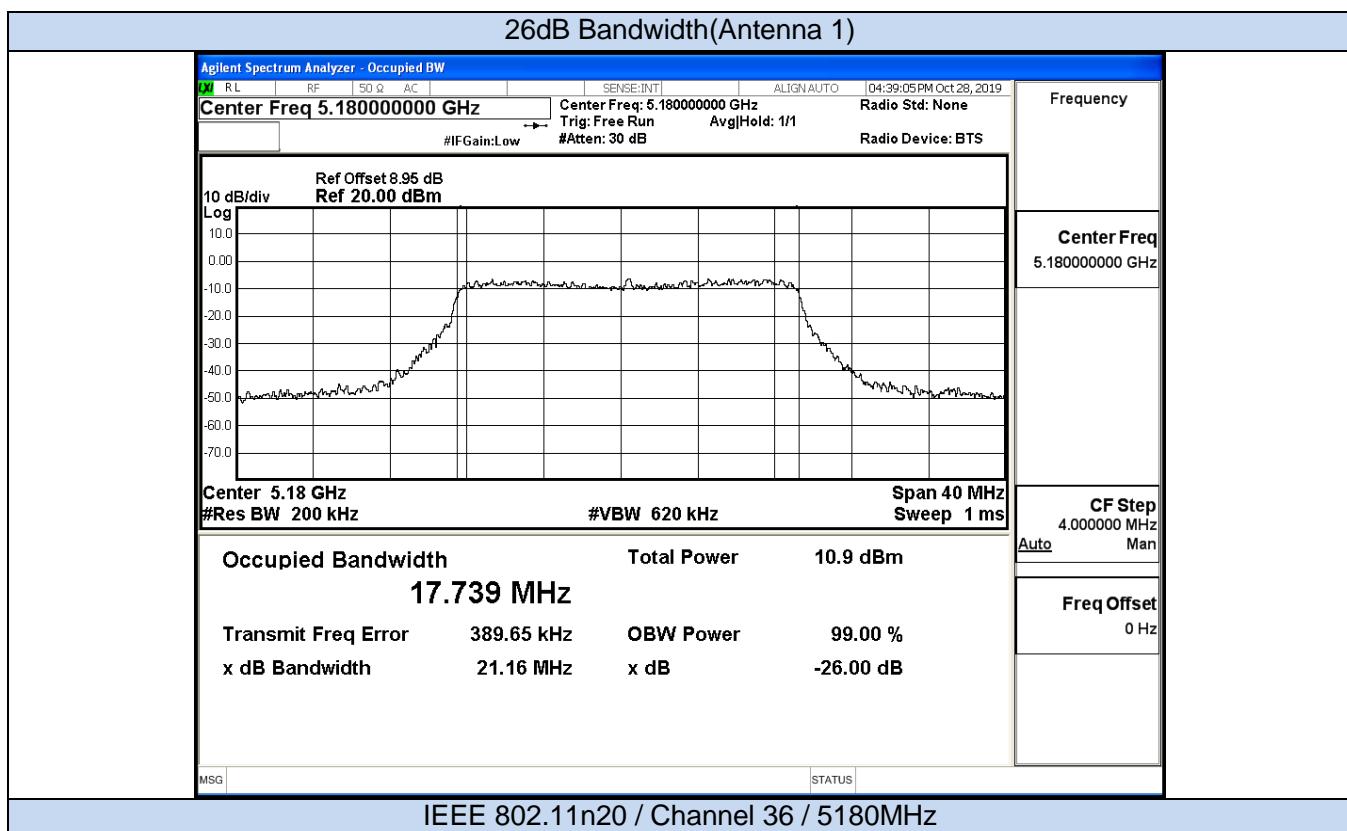
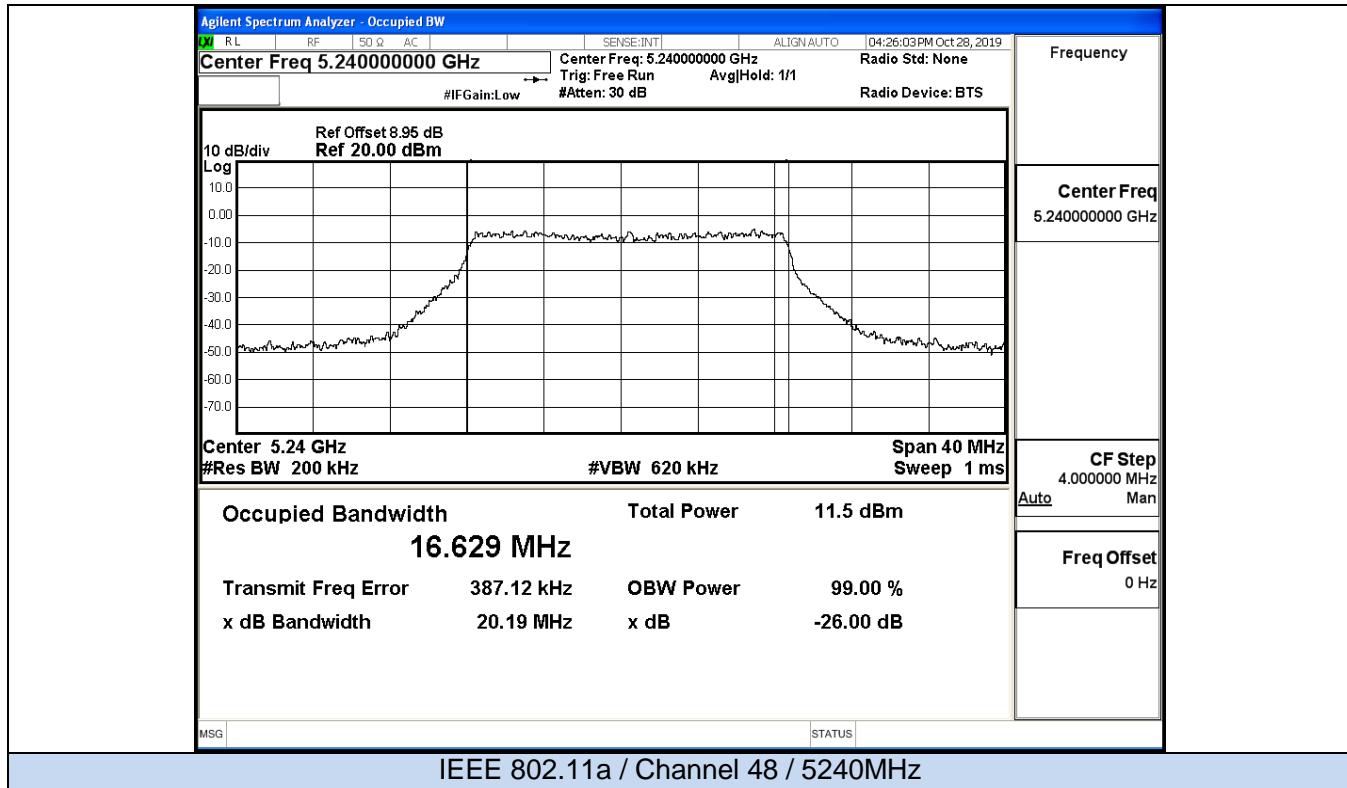
IEEE 802.11a / Channel 36 / 5180MHz

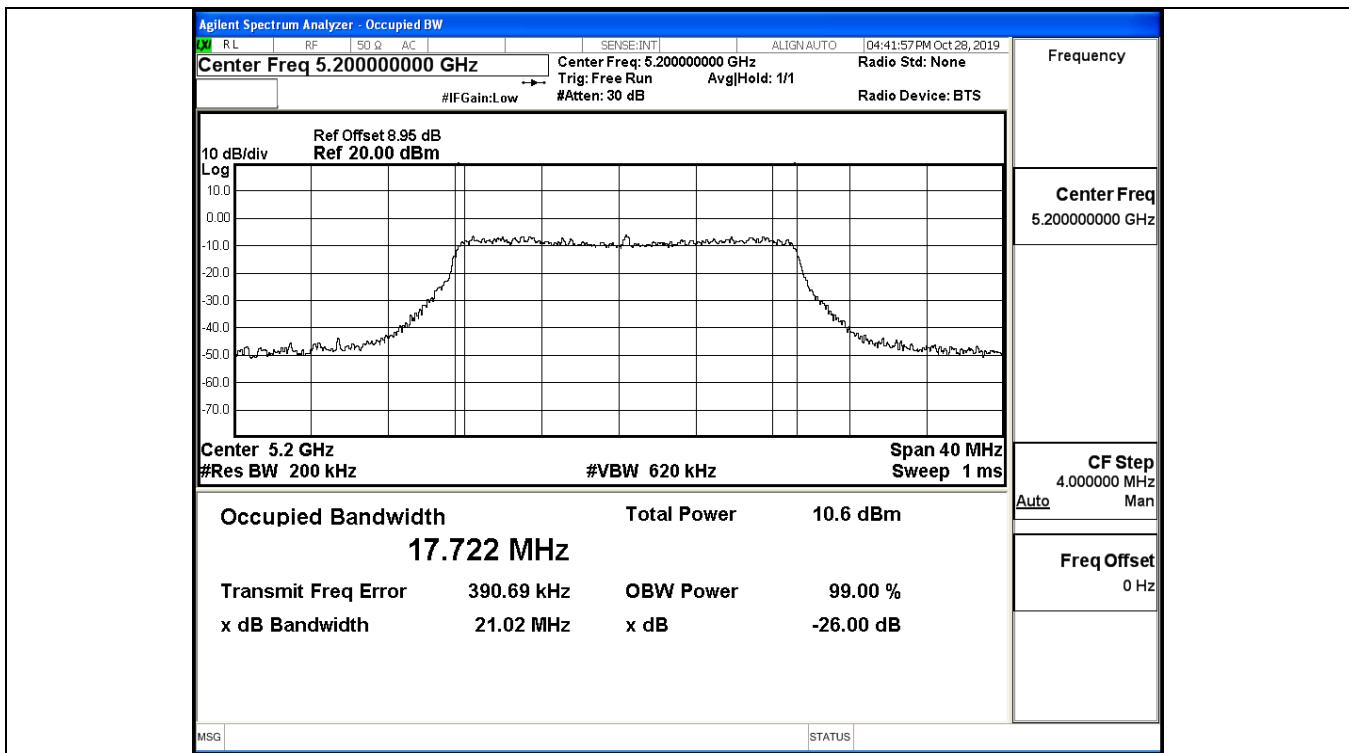
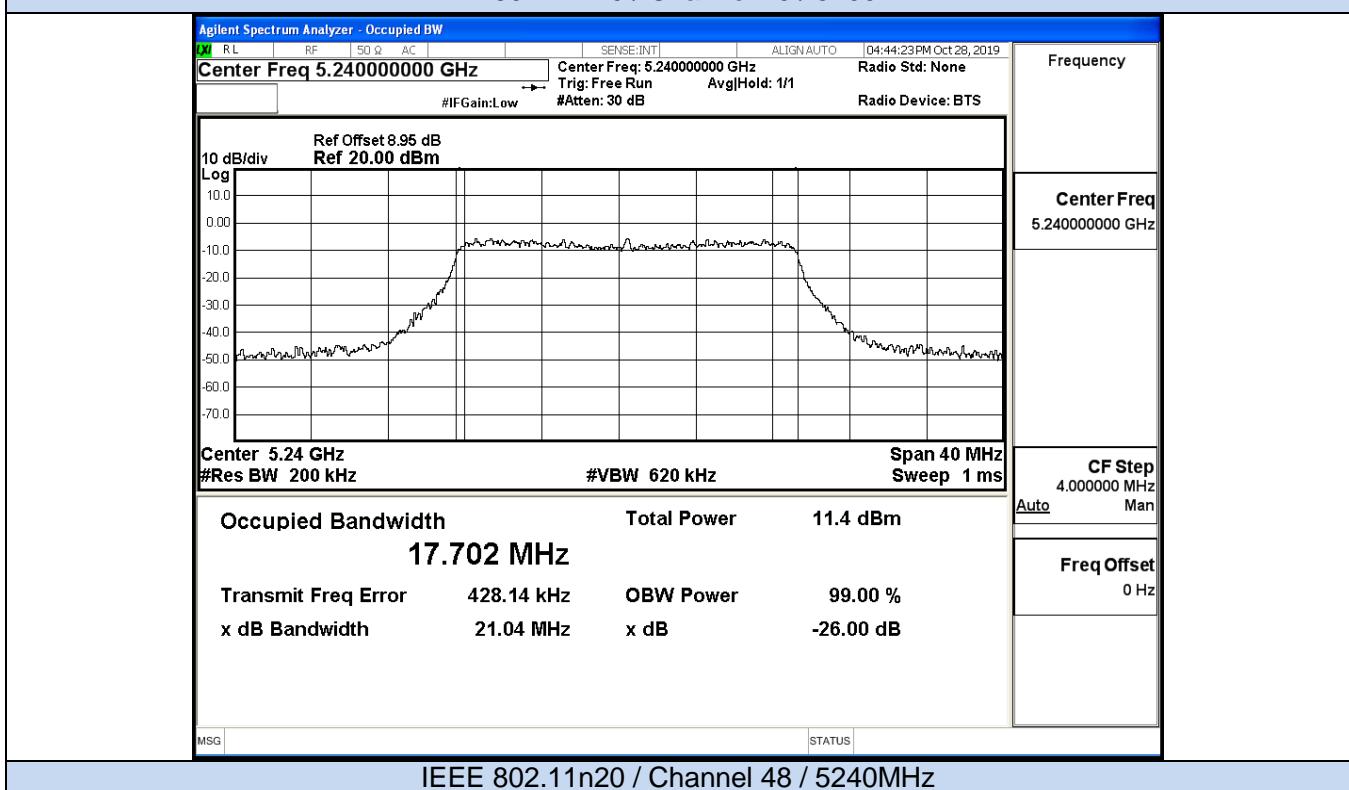


Frequency

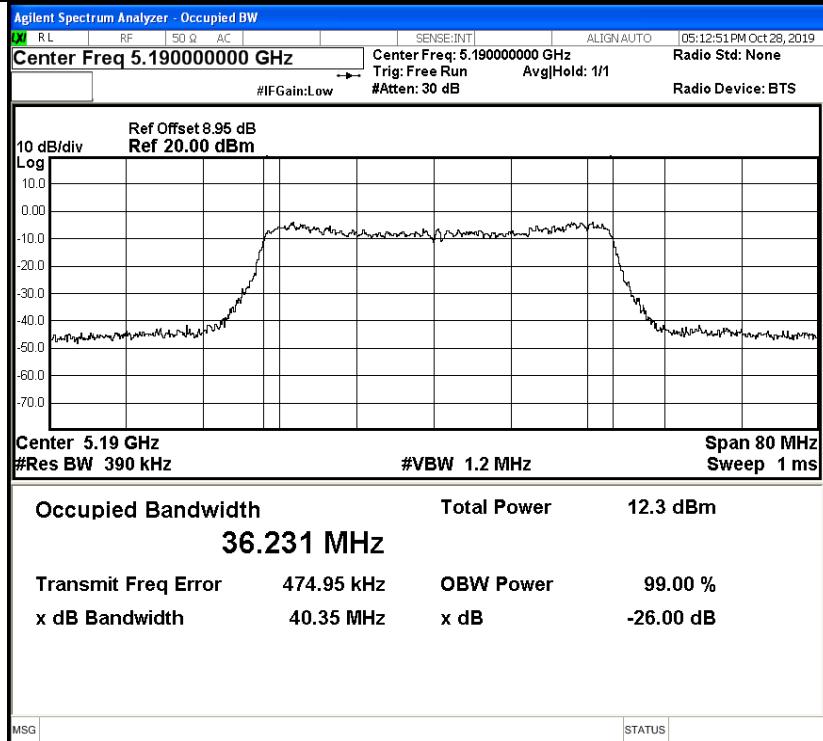
Center Freq
5.200000000 GHzCF Step
4.000000 MHz
Auto ManFreq Offset
0 Hz

IEEE 802.11a / Channel 40 / 5200MHz



**IEEE 802.11n20 / Channel 40 / 5200MHz****IEEE 802.11n20 / Channel 48 / 5240MHz**

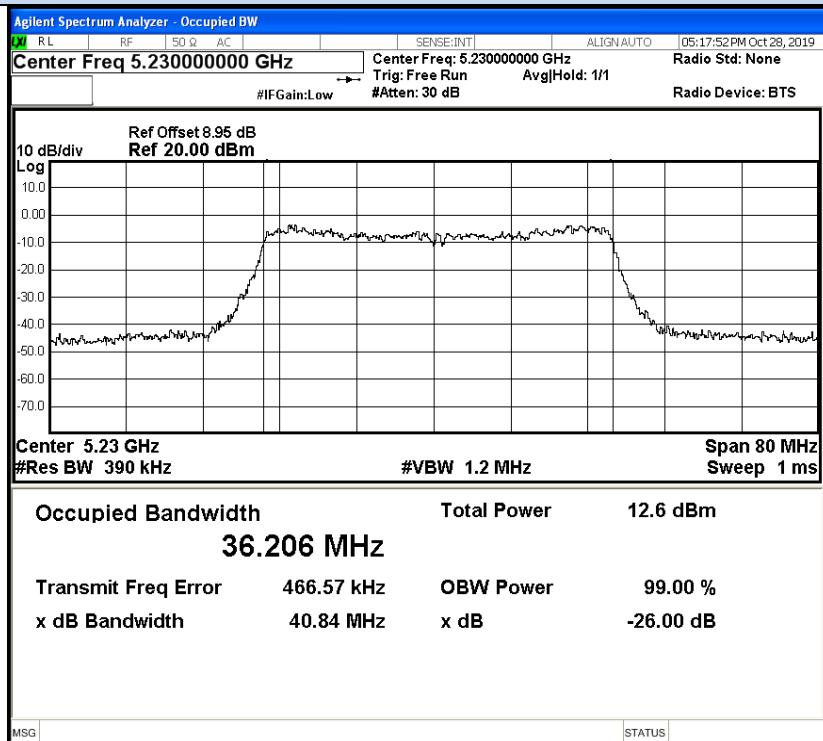
26dB Bandwidth(Antenna 1)



Frequency

Center Freq
5.190000000 GHzCF Step
8.00000 MHz
Auto ManFreq Offset
0 Hz

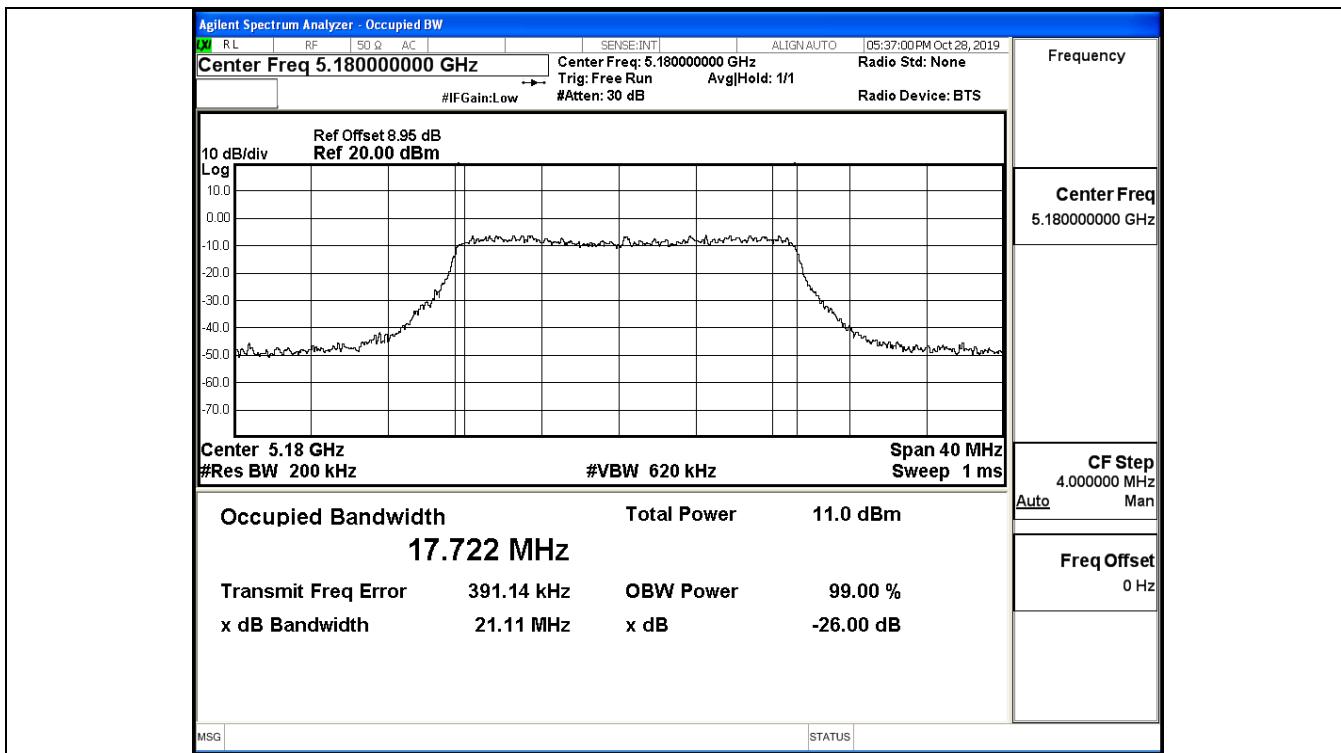
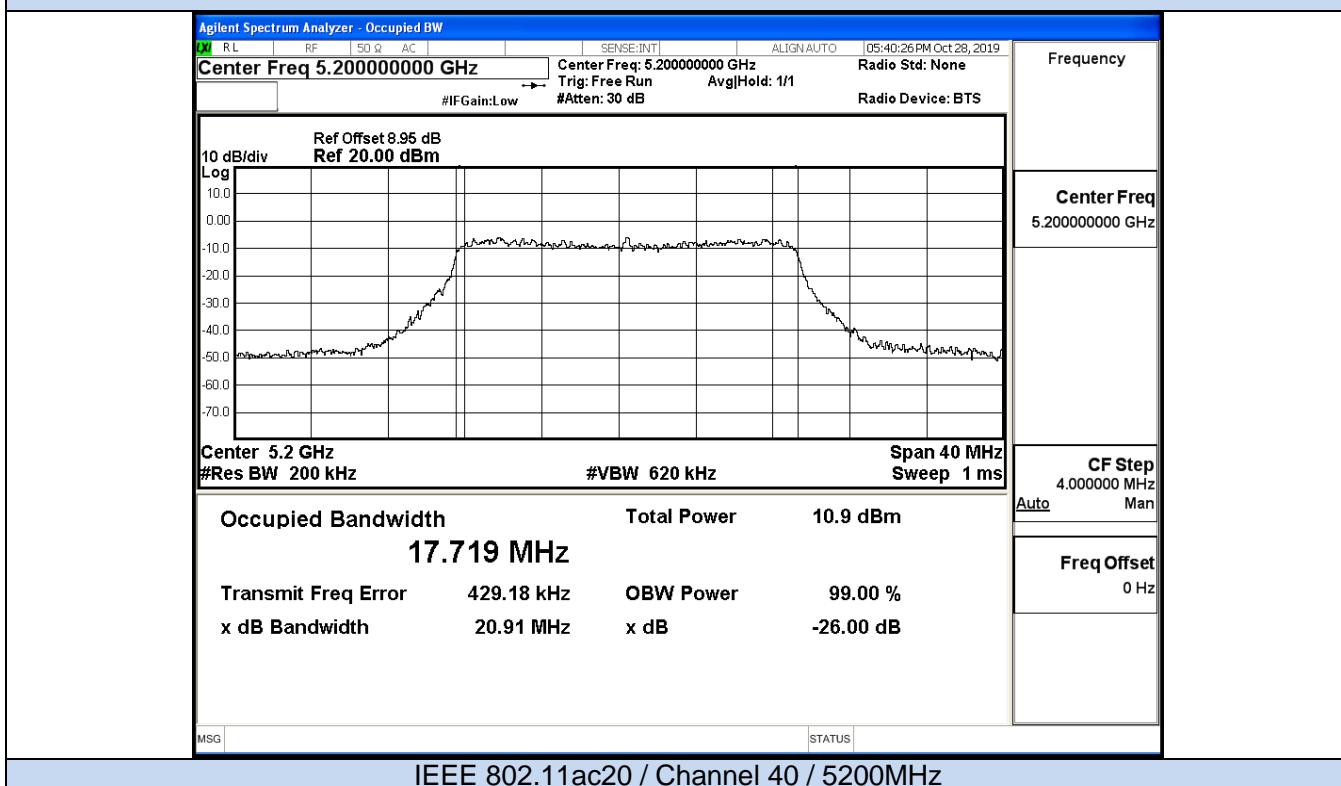
IEEE 802.11n40 / Channel 38 / 5190MHz

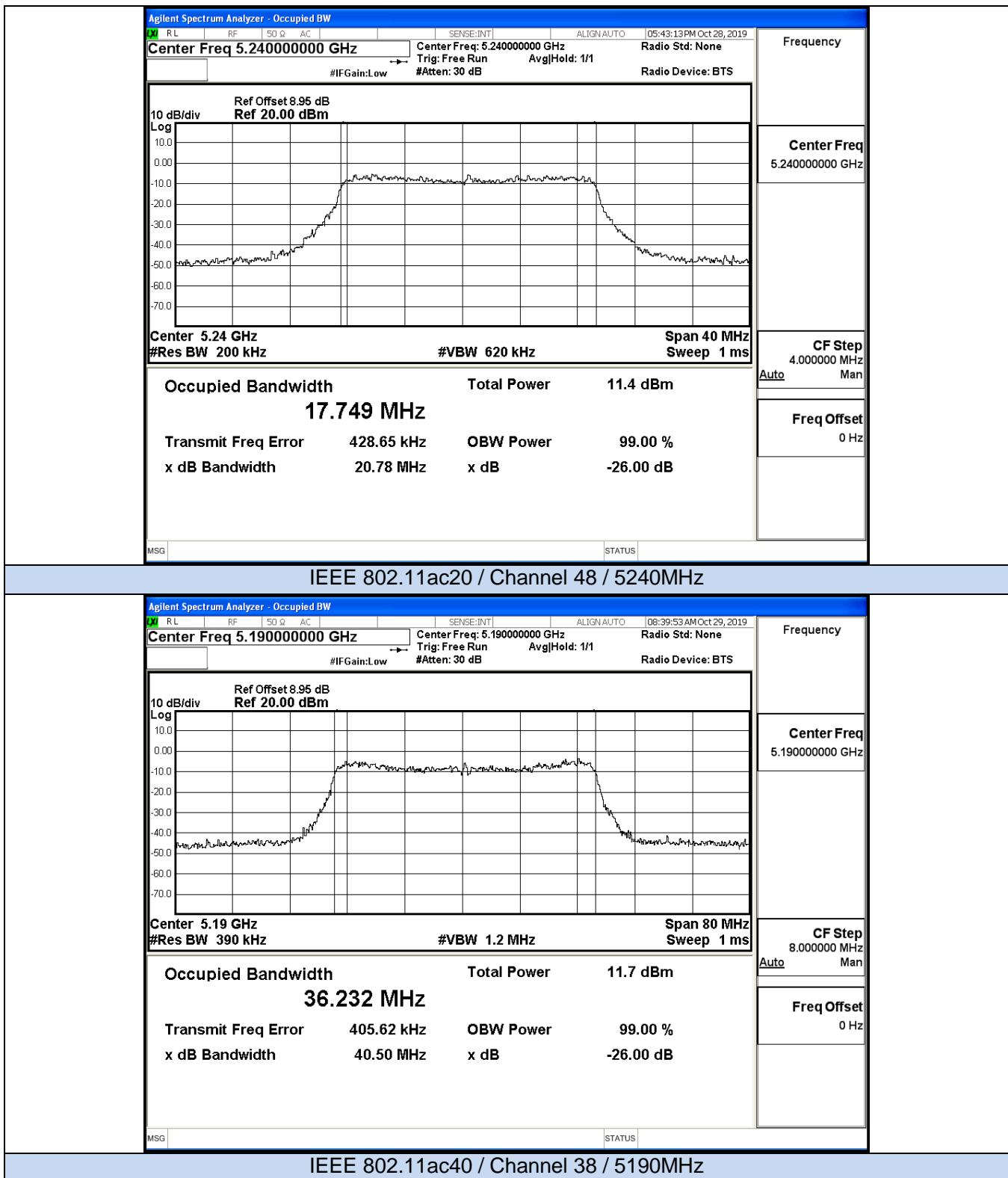


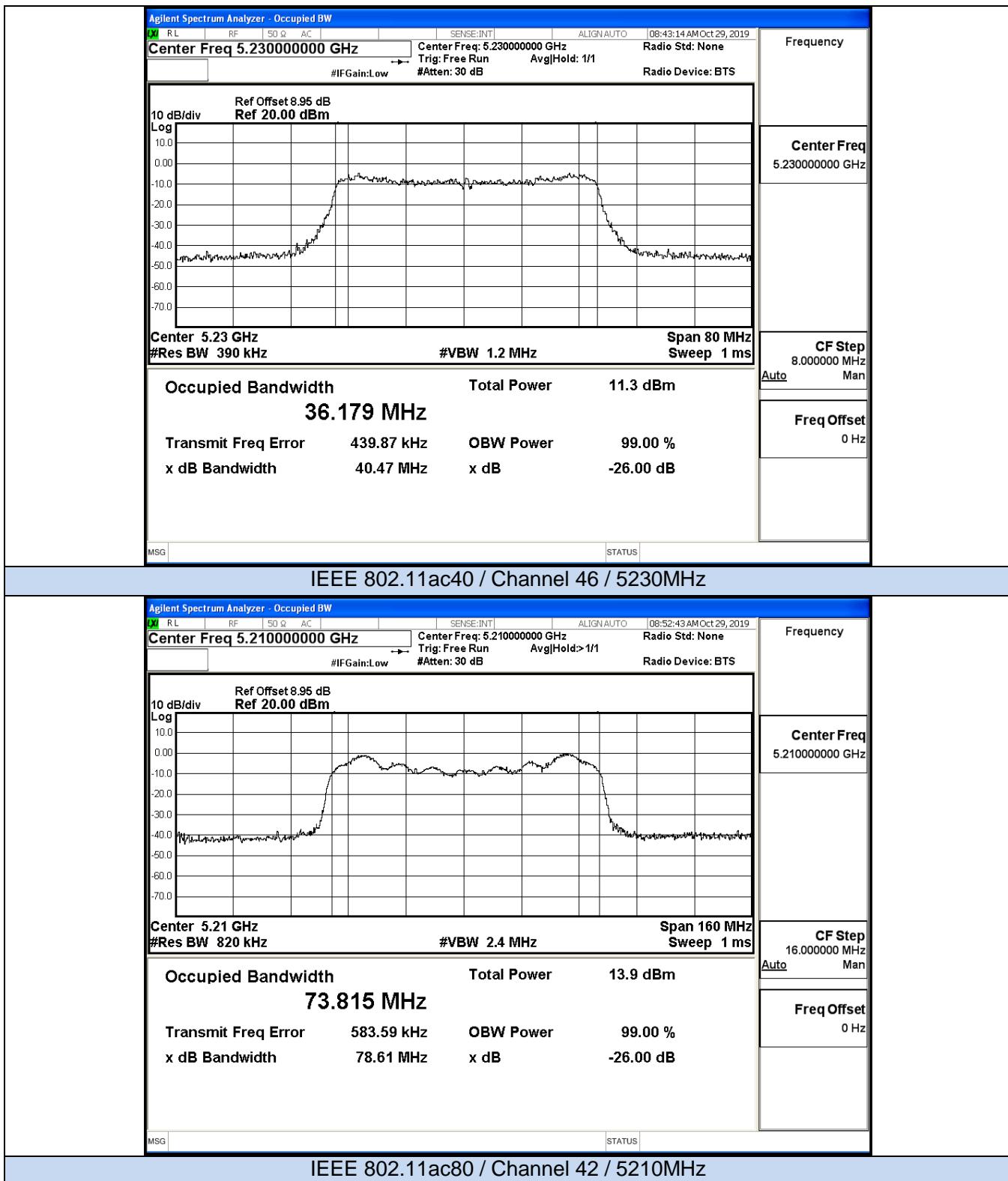
Frequency

Center Freq
5.230000000 GHzCF Step
8.00000 MHz
Auto ManFreq Offset
0 Hz

IEEE 802.11n40 / Channel 46 / 5230MHz

**IEEE 802.11ac20 / Channel 36 / 5180MHz****IEEE 802.11ac20 / Channel 40 / 5200MHz**





D.5 Undesirable Emissions Measurement

Antenna 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	-48.84	5.00	0	51.42	Peak	68.20	Pass
		4500.0	-60.39	5.00	0	39.87	Average	54.00	Pass
		5150.0	-45.42	5.00	0	54.84	Peak	68.20	Pass
		5150.0	-54.90	5.00	0	45.36	Average	54.00	Pass
	48	5350.0	-45.80	5.00	0	54.46	Peak	68.20	Pass
		5350.0	-56.84	5.00	0	43.42	Average	54.00	Pass
		5460.0	-45.96	5.00	0	54.3	Peak	68.20	Pass
		5460.0	-58.04	5.00	0	42.22	Average	54.00	Pass
11N20 SISO	36	4500.0	-50.64	5.00	0	49.62	Peak	68.20	Pass
		4500.0	-60.41	5.00	0	39.85	Average	54.00	Pass
		5150.0	-46.77	5.00	0	53.49	Peak	68.20	Pass
		5150.0	-56.04	5.00	0	44.22	Average	54.00	Pass
	48	5350.0	-46.60	5.00	0	53.66	Peak	68.20	Pass
		5350.0	-57.12	5.00	0	43.14	Average	54.00	Pass
		5460.0	-47.82	5.00	0	52.44	Peak	68.20	Pass
		5460.0	-58.16	5.00	0	42.1	Average	54.00	Pass
11N40 SISO	38	4500.0	-50.57	5.00	0	49.69	Peak	68.20	Pass
		4500.0	-60.45	5.00	0	39.81	Average	54.00	Pass
		5150.0	-44.41	5.00	0	55.85	Peak	68.20	Pass
		5150.0	-54.57	5.00	0	45.69	Average	54.00	Pass
	46	5350.0	-47.62	5.00	0	52.64	Peak	68.20	Pass
		5350.0	-57.27	5.00	0	42.99	Average	54.00	Pass
		5460.0	-47.71	5.00	0	52.55	Peak	68.20	Pass
		5460.0	-58.08	5.00	0	42.18	Average	54.00	Pass
11AC20 SISO	36	4500.0	-50.02	5.00	0	50.24	Peak	68.20	Pass
		4500.0	-60.41	5.00	0	39.85	Average	54.00	Pass
		5150.0	-45.18	5.00	0	55.08	Peak	68.20	Pass
		5150.0	-55.96	5.00	0	44.3	Average	54.00	Pass
	48	4500.0	-50.02	5.00	0	50.24	Peak	68.20	Pass
		4500.0	-60.41	5.00	0	39.85	Average	54.00	Pass
		5150.0	-45.18	5.00	0	55.08	Peak	68.20	Pass
		5150.0	-55.96	5.00	0	44.3	Average	54.00	Pass
11AC40 SISO	38	4500.0	-50.98	5.00	0	49.28	Peak	68.20	Pass
		4500.0	-60.41	5.00	0	39.85	Average	54.00	Pass
		5150.0	-44.33	5.00	0	55.93	Peak	68.20	Pass
		5150.0	-54.76	5.00	0	45.5	Average	54.00	Pass
	46	5350.0	-47.93	5.00	0	52.33	Peak	68.20	Pass
		5350.0	-57.26	5.00	0	43	Average	54.00	Pass
		5460.0	-47.04	5.00	0	53.22	Peak	68.20	Pass
		5460.0	-58.11	5.00	0	42.15	Average	54.00	Pass
11AC80 SISO	42	4500.0	-50.17	5.00	0	50.09	Peak	68.20	Pass
		4500.0	-60.44	5.00	0	39.82	Average	54.00	Pass
		5150.0	-43.09	5.00	0	57.17	Peak	68.20	Pass
		5150.0	-52.88	5.00	0	47.38	Average	54.00	Pass
		5350.0	-47.58	5.00	0	52.68	Peak	68.20	Pass
		5350.0	-57.12	5.00	0	43.14	Average	54.00	Pass
		5460.0	-47.83	5.00	0	52.43	Peak	68.20	Pass
		5460.0	-57.79	5.00	0	42.47	Average	54.00	Pass

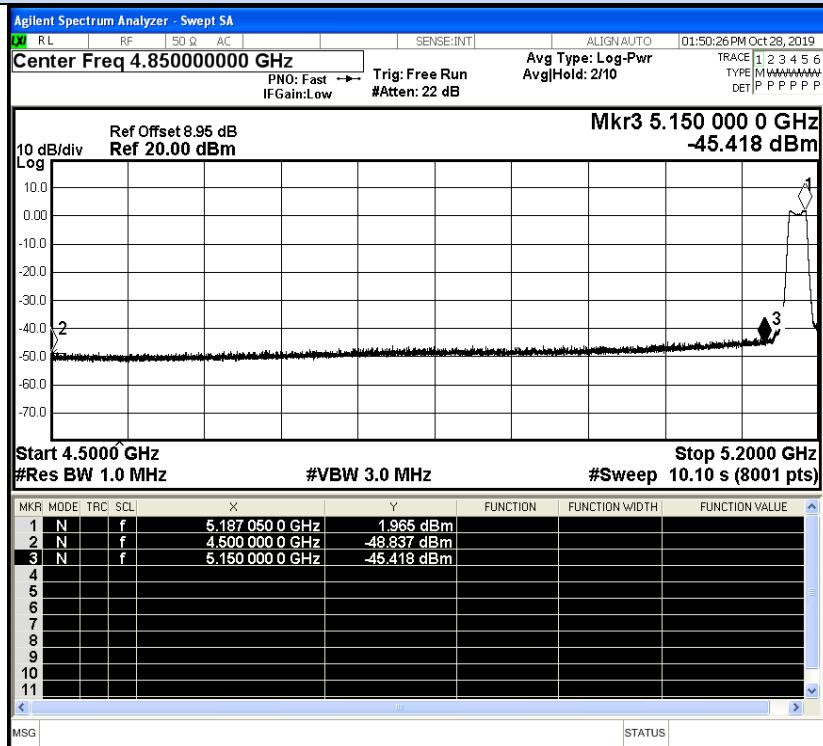
Antenna 1

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	-50.52	5.00	0	49.74	Peak	68.20	Pass
		4500.0	-60.46	5.00	0	39.8	Average	54.00	Pass
		5150.0	-45.91	5.00	0	54.35	Peak	68.20	Pass
		5150.0	-55.76	5.00	0	44.5	Average	54.00	Pass
	48	5350.0	-46.34	5.00	0	53.92	Peak	68.20	Pass
		5350.0	-56.85	5.00	0	43.41	Average	54.00	Pass
		5460.0	-47.62	5.00	0	52.64	Peak	68.20	Pass
		5460.0	-57.99	5.00	0	42.27	Average	54.00	Pass
11N20 SISO	36	4500.0	-50.84	5.00	0	49.42	Peak	68.20	Pass
		4500.0	-60.43	5.00	0	39.83	Average	54.00	Pass
		5150.0	-46.42	5.00	0	53.84	Peak	68.20	Pass
		5150.0	-55.83	5.00	0	44.43	Average	54.00	Pass
	48	5350.0	-44.61	5.00	0	55.65	Peak	68.20	Pass
		5350.0	-56.90	5.00	0	43.36	Average	54.00	Pass
		5460.0	-47.88	5.00	0	52.38	Peak	68.20	Pass
		5460.0	-58.00	5.00	0	42.26	Average	54.00	Pass
11N40 SISO	38	4500.0	-50.55	5.00	0	49.71	Peak	68.20	Pass
		4500.0	-60.41	5.00	0	39.85	Average	54.00	Pass
		5150.0	-43.65	5.00	0	56.61	Peak	68.20	Pass
		5150.0	-54.32	5.00	0	45.94	Average	54.00	Pass
	46	5350.0	-46.99	5.00	0	53.27	Peak	68.20	Pass
		5350.0	-57.17	5.00	0	43.09	Average	54.00	Pass
		5460.0	-48.25	5.00	0	52.01	Peak	68.20	Pass
		5460.0	-58.04	5.00	0	42.22	Average	54.00	Pass
11AC20 SISO	36	4500.0	-50.34	5.00	0	49.92	Peak	68.20	Pass
		4500.0	-59.67	5.00	0	40.59	Average	54.00	Pass
		5150.0	-44.49	5.00	0	55.77	Peak	68.20	Pass
		5150.0	-55.45	5.00	0	44.81	Average	54.00	Pass
	48	4500.0	-50.34	5.00	0	49.92	Peak	68.20	Pass
		4500.0	-59.67	5.00	0	40.59	Average	54.00	Pass
		5150.0	-44.49	5.00	0	55.77	Peak	68.20	Pass
		5150.0	-55.45	5.00	0	44.81	Average	54.00	Pass
11AC40 SISO	38	4500.0	-50.11	5.00	0	50.15	Peak	68.20	Pass
		4500.0	-59.80	5.00	0	40.46	Average	54.00	Pass
		5150.0	-44.12	5.00	0	56.14	Peak	68.20	Pass
		5150.0	-54.42	5.00	0	45.84	Average	54.00	Pass
	46	5350.0	-47.39	5.00	0	52.87	Peak	68.20	Pass
		5350.0	-57.01	5.00	0	43.25	Average	54.00	Pass
		5460.0	-48.76	5.00	0	51.5	Peak	68.20	Pass
		5460.0	-58.00	5.00	0	42.26	Average	54.00	Pass
11AC80 SISO	42	4500.0	-48.89	5.00	0	51.37	Peak	68.20	Pass
		4500.0	-59.76	5.00	0	40.50	Average	54.00	Pass
		5150.0	-41.14	5.00	0	59.12	Peak	68.20	Pass
		5150.0	-52.78	5.00	0	47.48	Average	54.00	Pass
		5350.0	-46.69	5.00	0	53.57	Peak	68.20	Pass
		5350.0	-57.03	5.00	0	43.23	Average	54.00	Pass
		5460.0	-47.86	5.00	0	52.40	Peak	68.20	Pass
		5460.0	-57.78	5.00	0	42.48	Average	54.00	Pass

Antenna 0+ Antenna 1

Test Mode	Channel	Frequency (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)
			Ant0	Ant1	Sum					
11N20 MIMO	36	4500.0	-50.64	-50.84	-47.73	8.01	0	55.54	Peak	68.20
		4500.0	-60.41	-60.43	-57.41	8.01	0	45.86	Average	54.00
		5150.0	-46.77	-46.42	-43.58	8.01	0	59.69	Peak	68.20
		5150.0	-56.04	-55.83	-52.92	8.01	0	50.35	Average	54.00
	48	5350.0	-46.60	-44.61	-42.48	8.01	0	60.79	Peak	68.20
		5350.0	-57.12	-56.90	-54.00	8.01	0	49.27	Average	54.00
		5460.0	-47.82	-47.88	-44.84	8.01	0	58.43	Peak	68.20
		5460.0	-58.16	-58.00	-55.07	8.01	0	48.20	Average	54.00
11N40 MIMO	38	4500.0	-50.57	-50.55	-47.55	8.01	0	55.72	Peak	68.20
		4500.0	-60.45	-60.41	-57.42	8.01	0	45.85	Average	54.00
		5150.0	-44.41	-43.65	-41.00	8.01	0	62.27	Peak	68.20
		5150.0	-54.57	-54.32	-51.43	8.01	0	51.84	Average	54.00
	46	5350.0	-47.62	-46.99	-44.28	8.01	0	58.99	Peak	68.20
		5350.0	-57.27	-57.17	-54.21	8.01	0	49.06	Average	54.00
		5460.0	-47.71	-48.25	-44.96	8.01	0	58.31	Peak	68.20
		5460.0	-58.08	-58.04	-55.05	8.01	0	48.22	Average	54.00
11AC20 MIMO	36	4500.0	-50.02	-50.34	-47.17	8.01	0	56.10	Peak	68.20
		4500.0	-60.41	-59.67	-57.01	8.01	0	46.26	Average	54.00
		5150.0	-45.18	-44.49	-41.81	8.01	0	61.46	Peak	68.20
		5150.0	-55.96	-55.45	-52.69	8.01	0	50.58	Average	54.00
	48	5350.0	-50.02	-50.34	-47.17	8.01	0	56.10	Peak	68.20
		5350.0	-60.41	-59.67	-57.01	8.01	0	46.26	Average	54.00
		5460.0	-45.18	-44.49	-41.81	8.01	0	61.46	Peak	68.20
		5460.0	-55.96	-55.45	-52.69	8.01	0	50.58	Average	54.00
11AC40 MIMO	38	4500.0	-50.98	-50.11	-47.51	8.01	0	55.76	Peak	68.20
		4500.0	-60.41	-59.80	-57.08	8.01	0	46.19	Average	54.00
		5150.0	-44.33	-44.12	-41.21	8.01	0	62.06	Peak	68.20
		5150.0	-54.76	-54.42	-51.58	8.01	0	51.69	Average	54.00
	46	5350.0	-47.93	-47.39	-44.64	8.01	0	58.63	Peak	68.20
		5350.0	-57.26	-57.01	-54.12	8.01	0	49.15	Average	54.00
		5460.0	-47.04	-48.76	-44.81	8.01	0	58.46	Peak	68.20
		5460.0	-58.11	-58.00	-55.04	8.01	0	48.23	Average	54.00
11AC80 MIMO	42	4500.0	-50.17	-48.89	-46.47	8.01	0	56.80	Peak	68.20
		4500.0	-60.44	-59.76	-57.08	8.01	0	46.19	Average	54.00
		5150.0	-43.09	-41.14	-39.00	8.01	0	64.27	Peak	68.20
		5150.0	-52.88	-52.78	-49.82	8.01	0	53.45	Average	54.00
		5350.0	-47.58	-46.69	-44.10	8.01	0	59.17	Peak	68.20
		5350.0	-57.12	-57.03	-54.06	8.01	0	49.21	Average	54.00
		5460.0	-47.83	-47.86	-44.83	8.01	0	58.44	Peak	68.20
		5460.0	-57.79	-57.78	-54.77	8.01	0	48.50	Average	54.00

Undesirable Emissions Measurement(Antenna 0)



Frequency

Auto Tune

Center Freq

4.850000000 GHz

Start Freq

4.500000000 GHz

Stop Freq

5.200000000 GHz

CF Step

70.000000 MHz

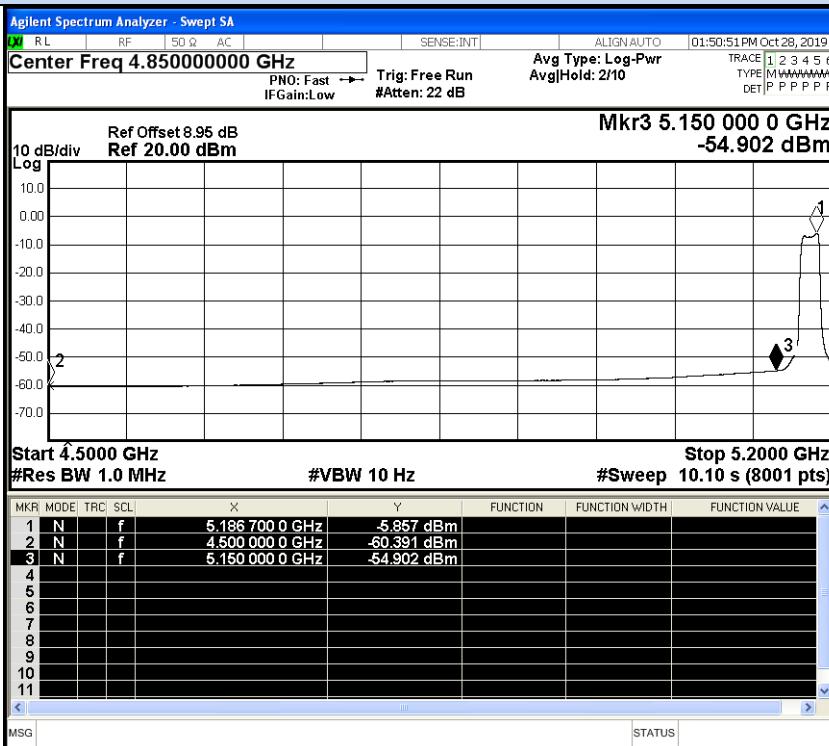
Auto

Man

Freq Offset

0 Hz

IEEE 802.11a / Channel 36 / 5180MHz / Peak



Frequency

Auto Tune

Center Freq

4.850000000 GHz

Start Freq

4.500000000 GHz

Stop Freq

5.200000000 GHz

CF Step

70.000000 MHz

Auto

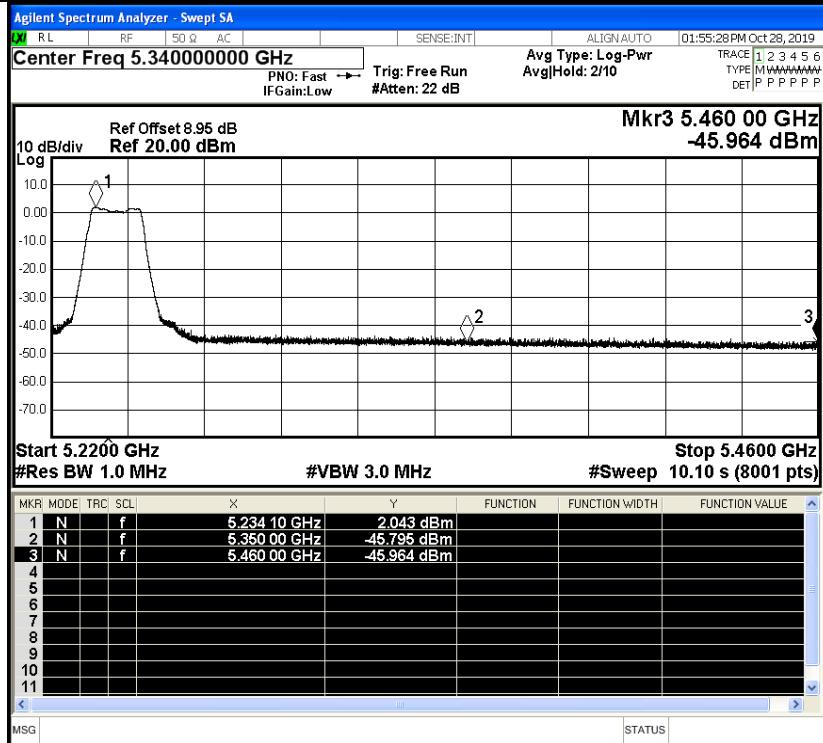
Man

Freq Offset

0 Hz

IEEE 802.11a / Channel 36 / 5180MHz / Average

Undesirable Emissions Measurement(Antenna 0)



Frequency

Auto Tune

Center Freq

5.340000000 GHz

Start Freq

5.220000000 GHz

Stop Freq

5.460000000 GHz

CF Step

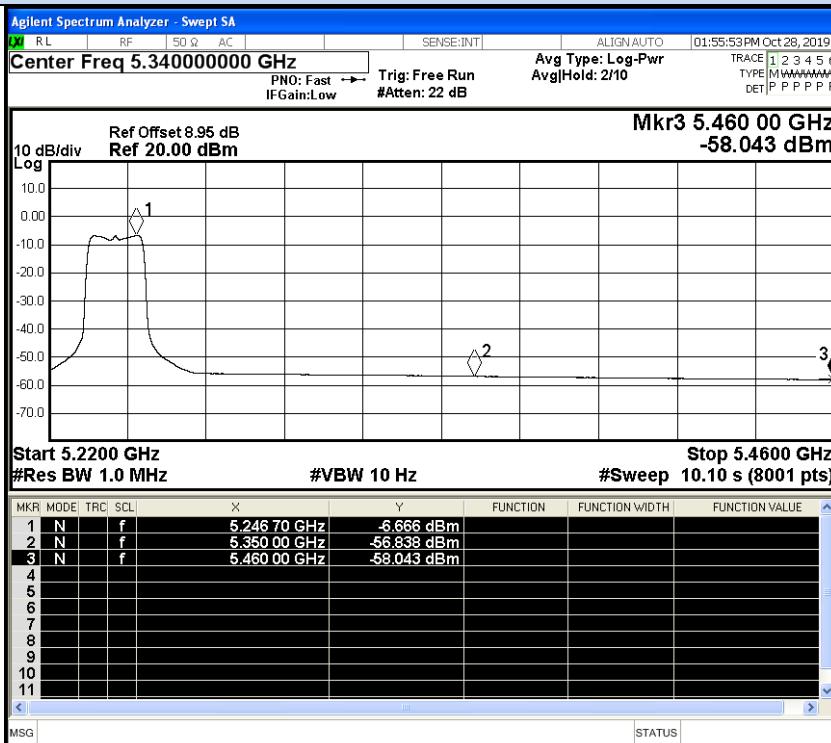
24.000000 MHz

Auto Man

Freq Offset

0 Hz

IEEE 802.11a / Channel 48 / 5240MHz / Peak



Frequency

Auto Tune

Center Freq

5.340000000 GHz

Start Freq

5.220000000 GHz

Stop Freq

5.460000000 GHz

CF Step

24.000000 MHz

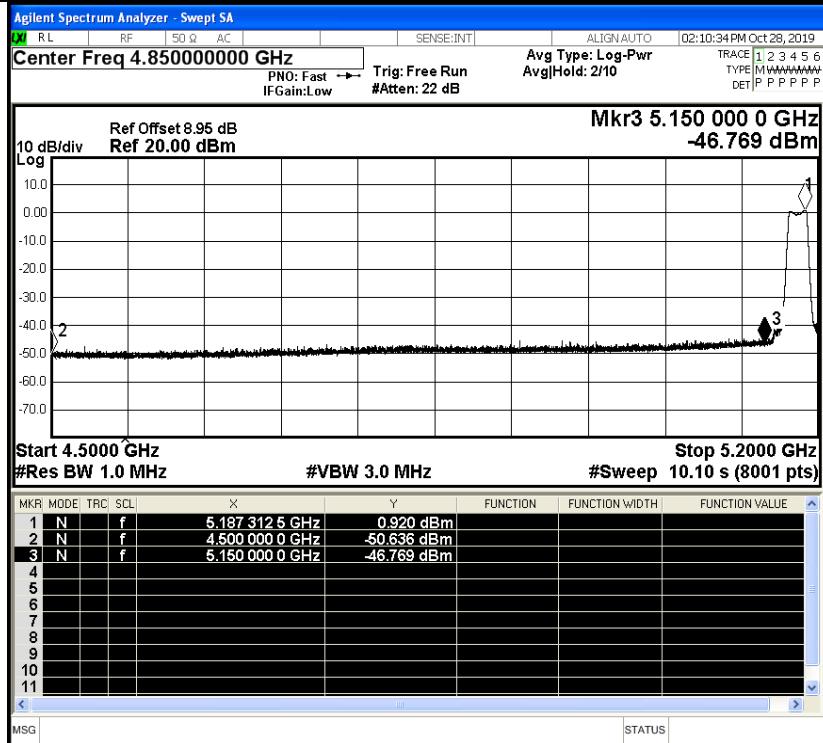
Auto Man

Freq Offset

0 Hz

IEEE 802.11a / Channel 48 / 5240MHz / Average

Undesirable Emissions Measurement(Antenna 0)



Frequency

Auto Tune

Center Freq

4.850000000 GHz

Start Freq

4.500000000 GHz

Stop Freq

5.200000000 GHz

CF Step

70.000000 MHz

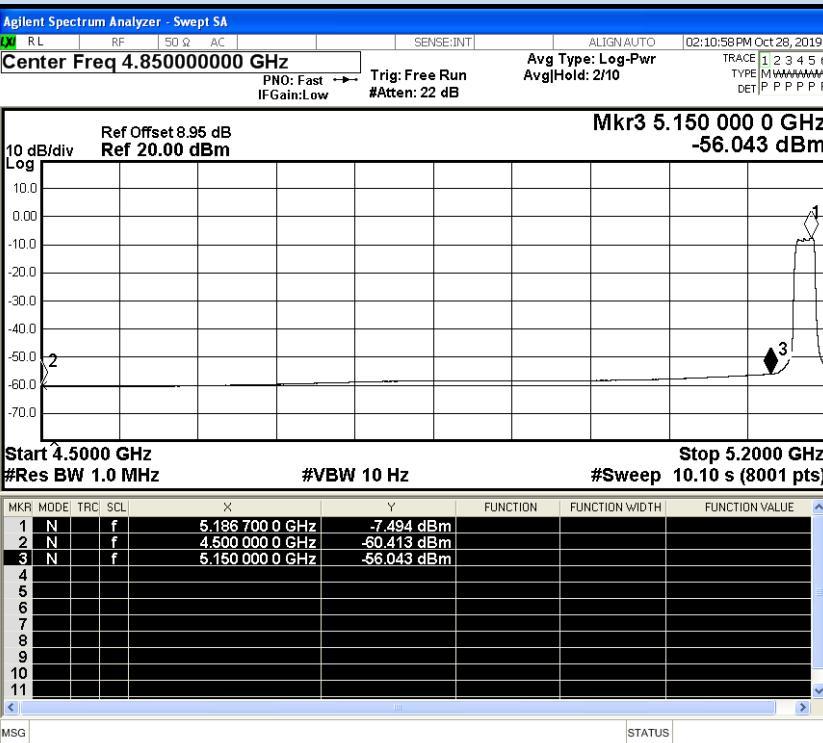
Auto

Man

Freq Offset

0 Hz

IEEE 802.11n20 / Channel 36 / 5180MHz / Peak



Frequency

Auto Tune

Center Freq

4.850000000 GHz

Start Freq

4.500000000 GHz

Stop Freq

5.200000000 GHz

CF Step

70.000000 MHz

Auto

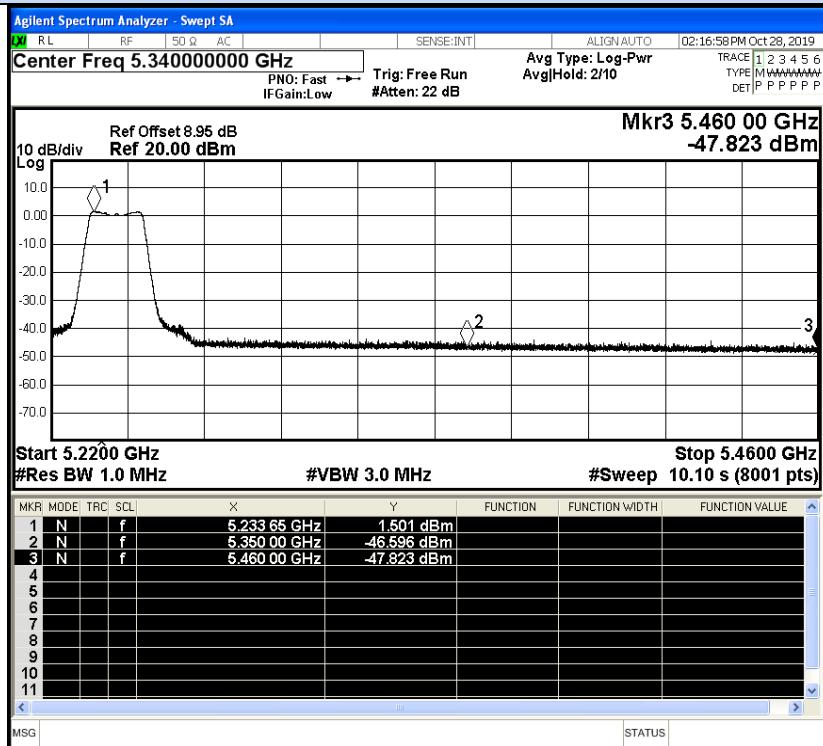
Man

Freq Offset

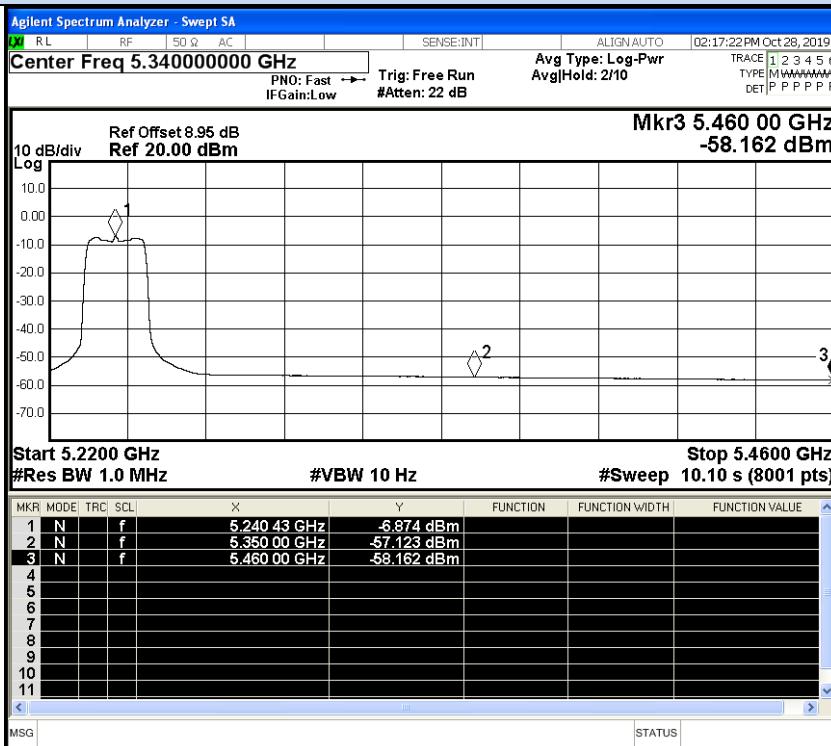
0 Hz

IEEE 802.11n20 / Channel 36 / 5180MHz / Average

Undesirable Emissions Measurement(Antenna 0)

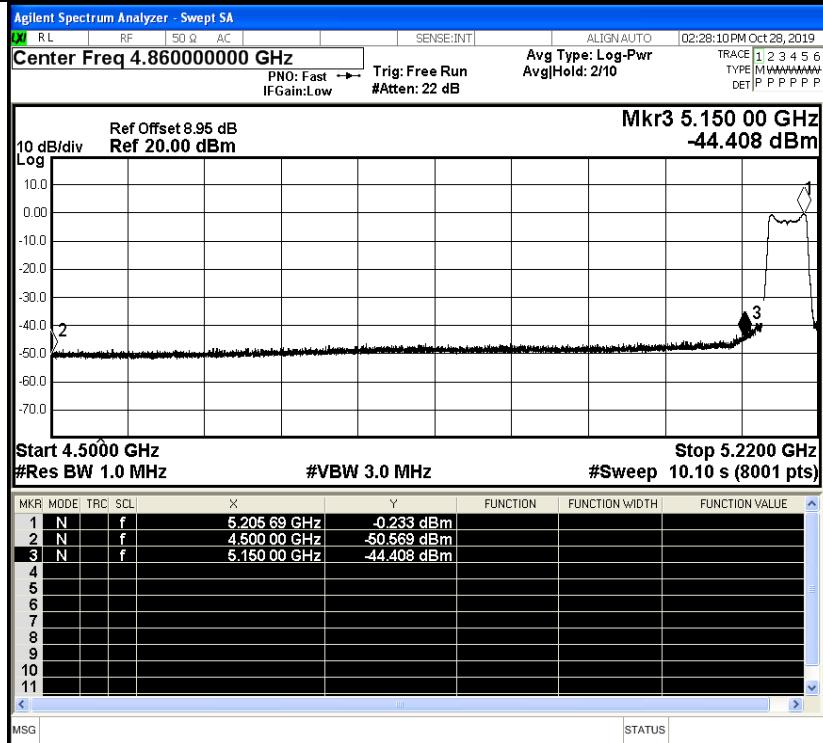


IEEE 802.11n20 / Channel 48 / 5240MHz / Peak



IEEE 802.11n20 / Channel 48 / 5240MHz / Average

Undesirable Emissions Measurement(Antenna 0)



Frequency

Auto Tune

Center Freq

4.860000000 GHz

Start Freq

4.500000000 GHz

Stop Freq

5.220000000 GHz

CF Step

72.000000 MHz

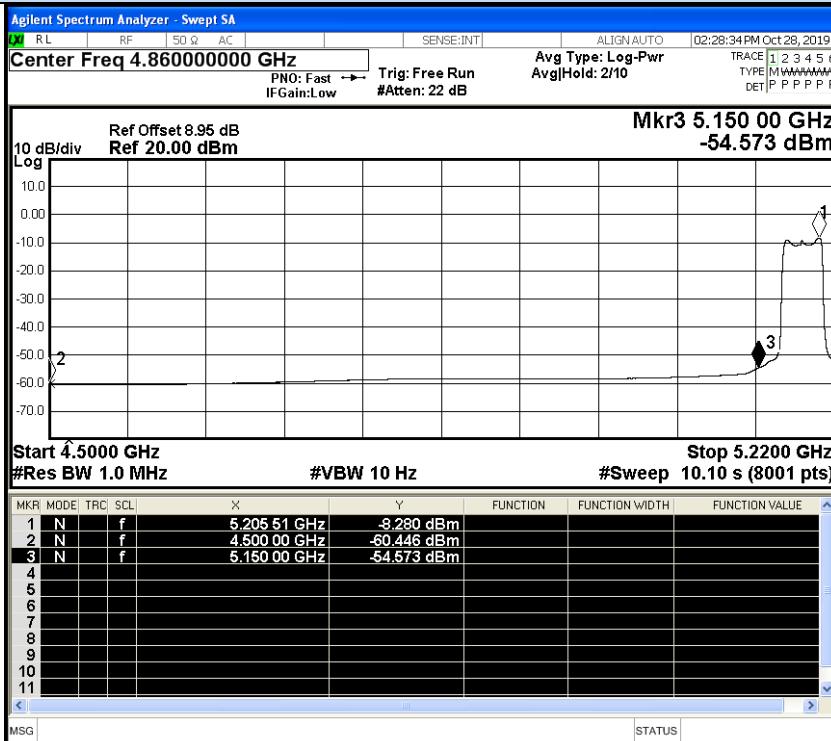
Auto

Man

Freq Offset

0 Hz

IEEE 802.11n40 / Channel 38 / 5190MHz / Peak



Frequency

Auto Tune

Center Freq

4.860000000 GHz

Start Freq

4.500000000 GHz

Stop Freq

5.220000000 GHz

CF Step

72.000000 MHz

Auto

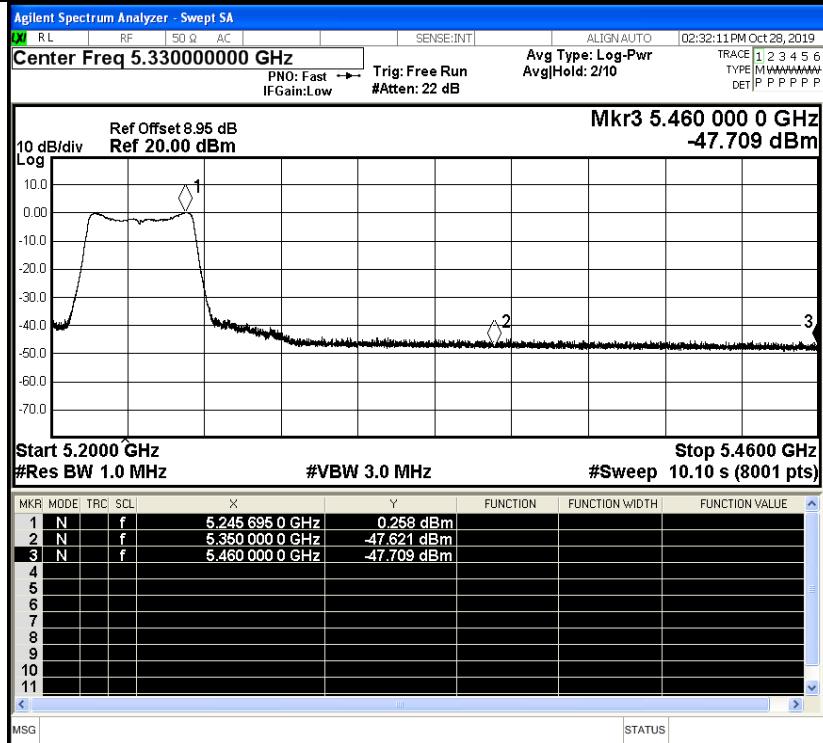
Man

Freq Offset

0 Hz

IEEE 802.11n40 / Channel 38 / 5190MHz / Average

Undesirable Emissions Measurement(Antenna 0)



Frequency

Auto Tune

Center Freq

5.330000000 GHz

Start Freq

5.200000000 GHz

Stop Freq

5.460000000 GHz

CF Step

26.000000 MHz

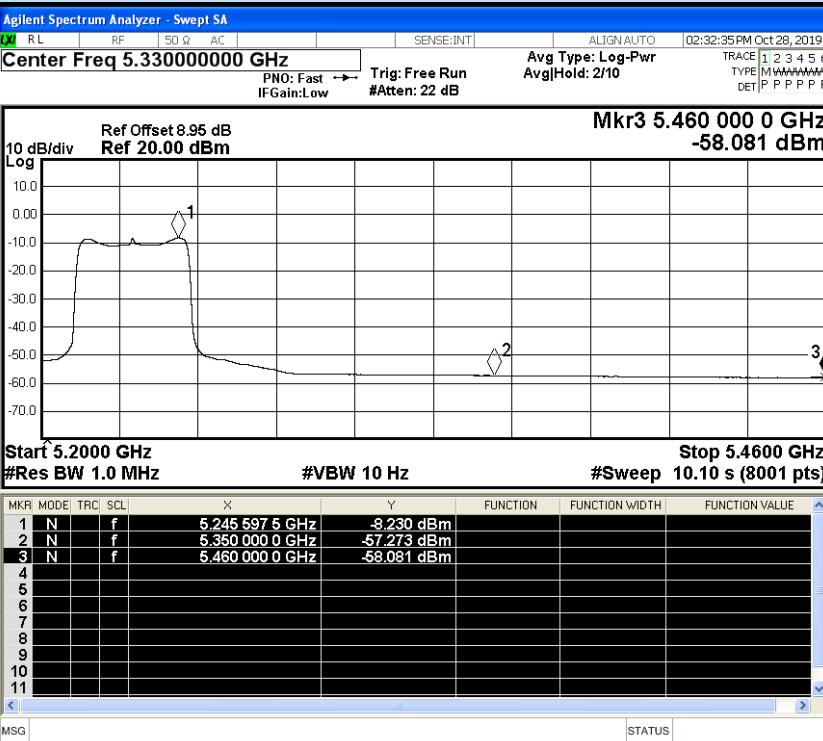
Auto

Man

Freq Offset

0 Hz

IEEE 802.11n40 / 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

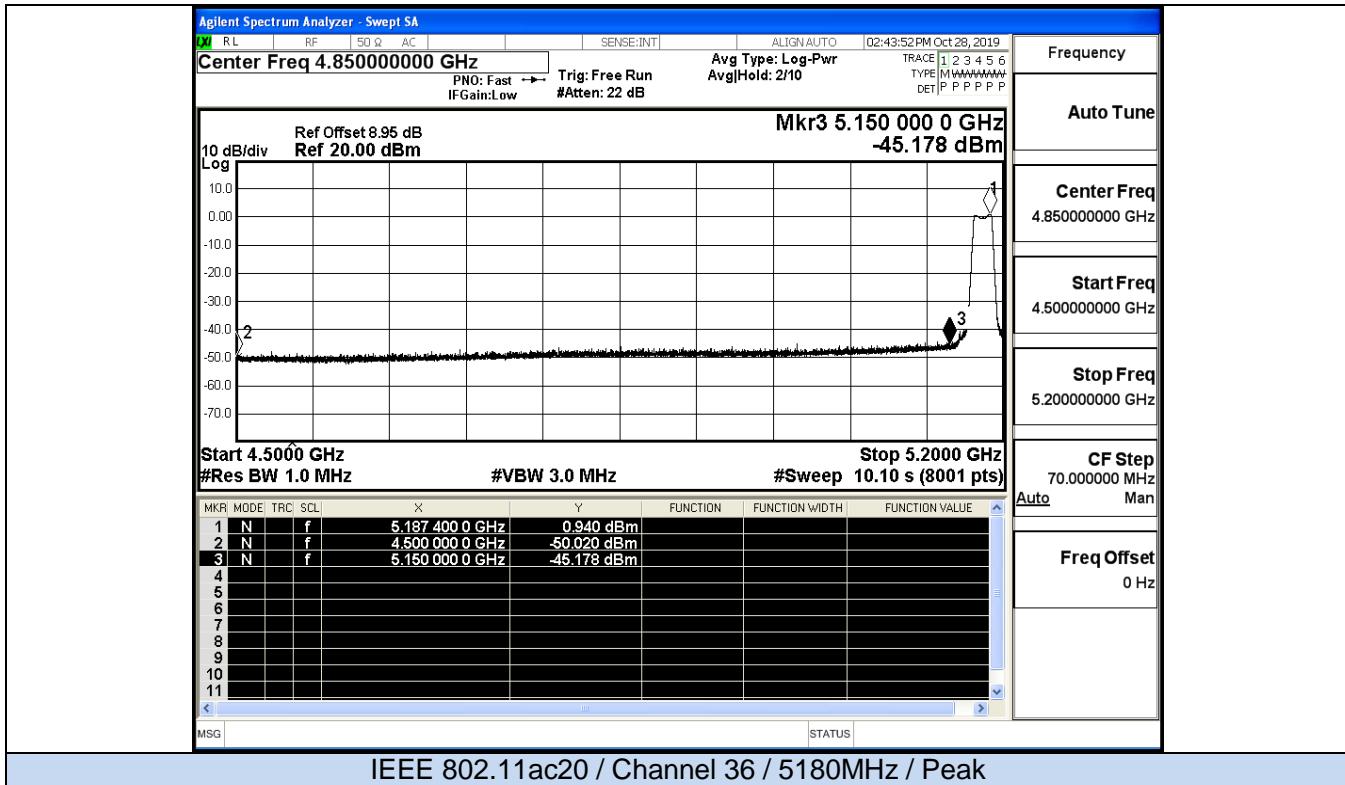
Auto

Man

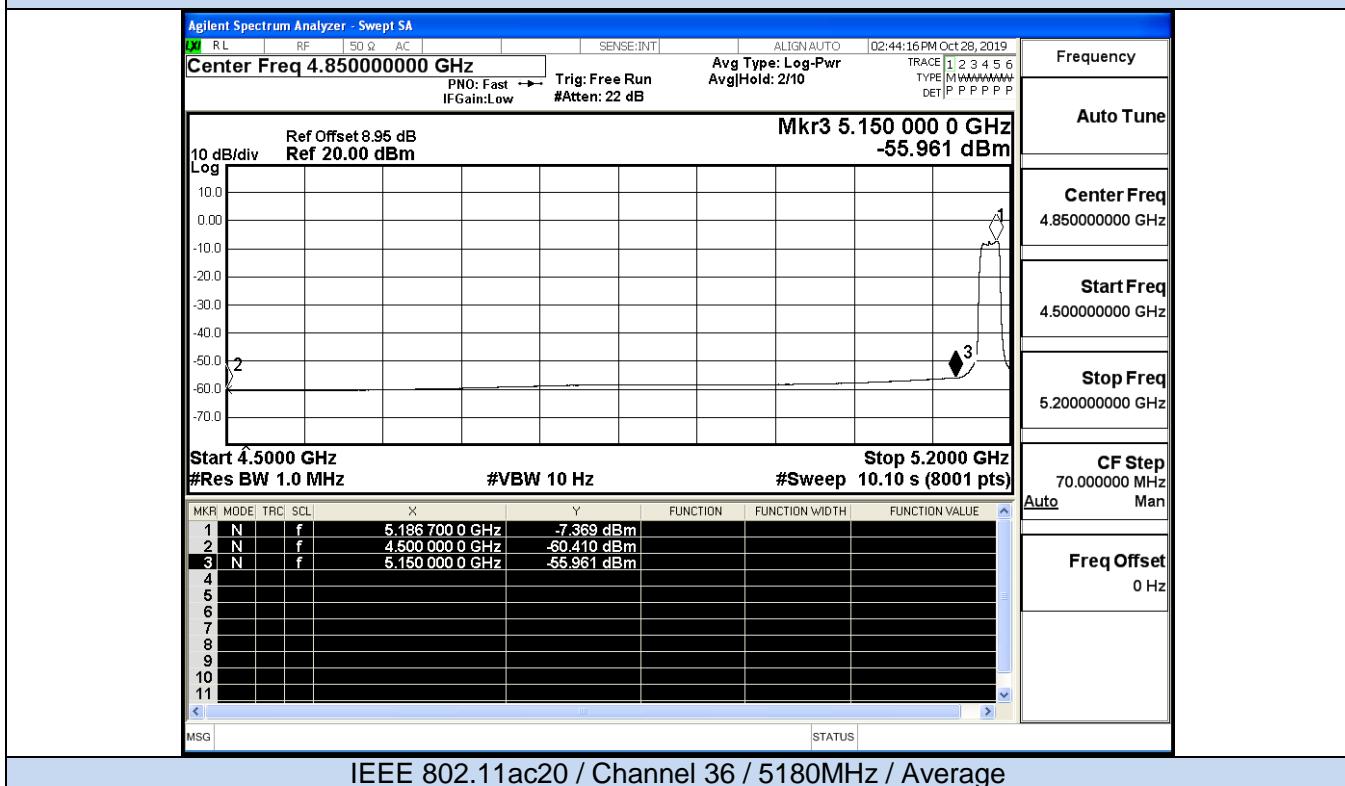
Freq Offset

0 Hz

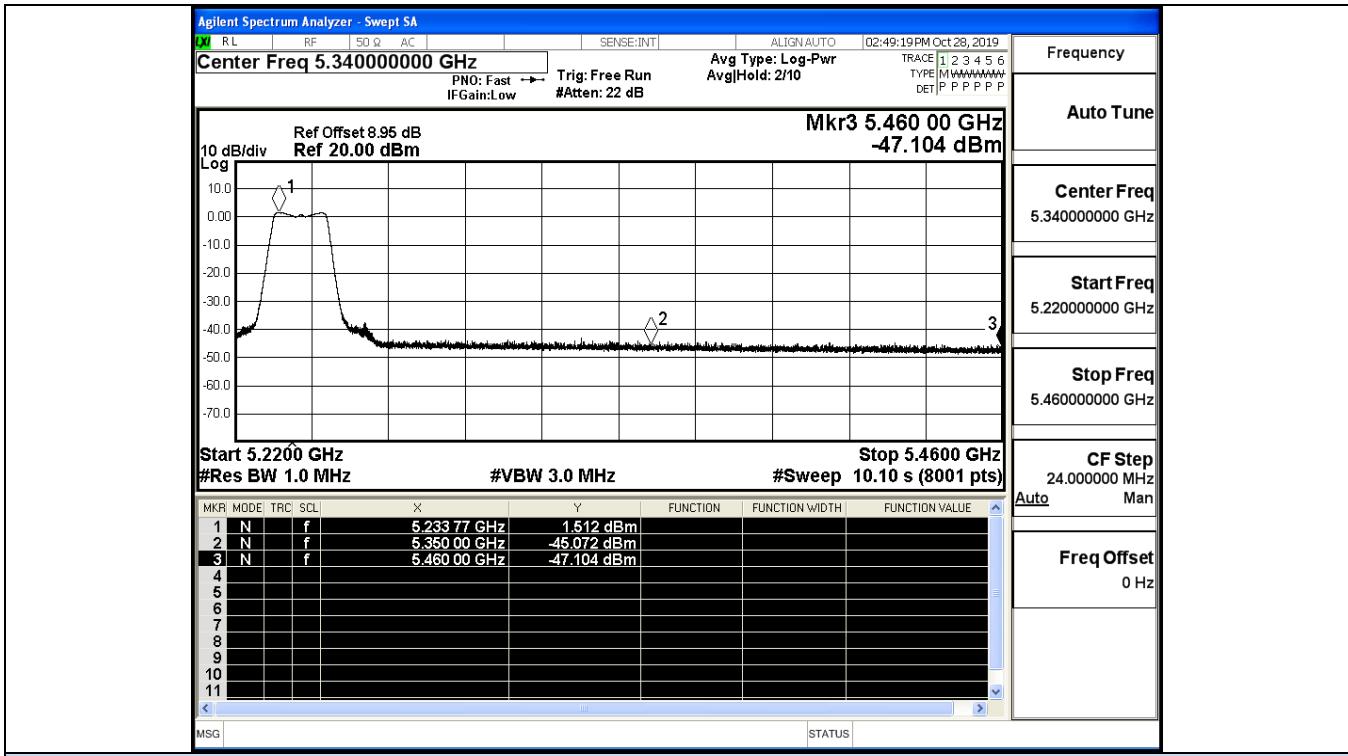
IEEE 802.11n40 / Channel 46 / 5230MHz / Average



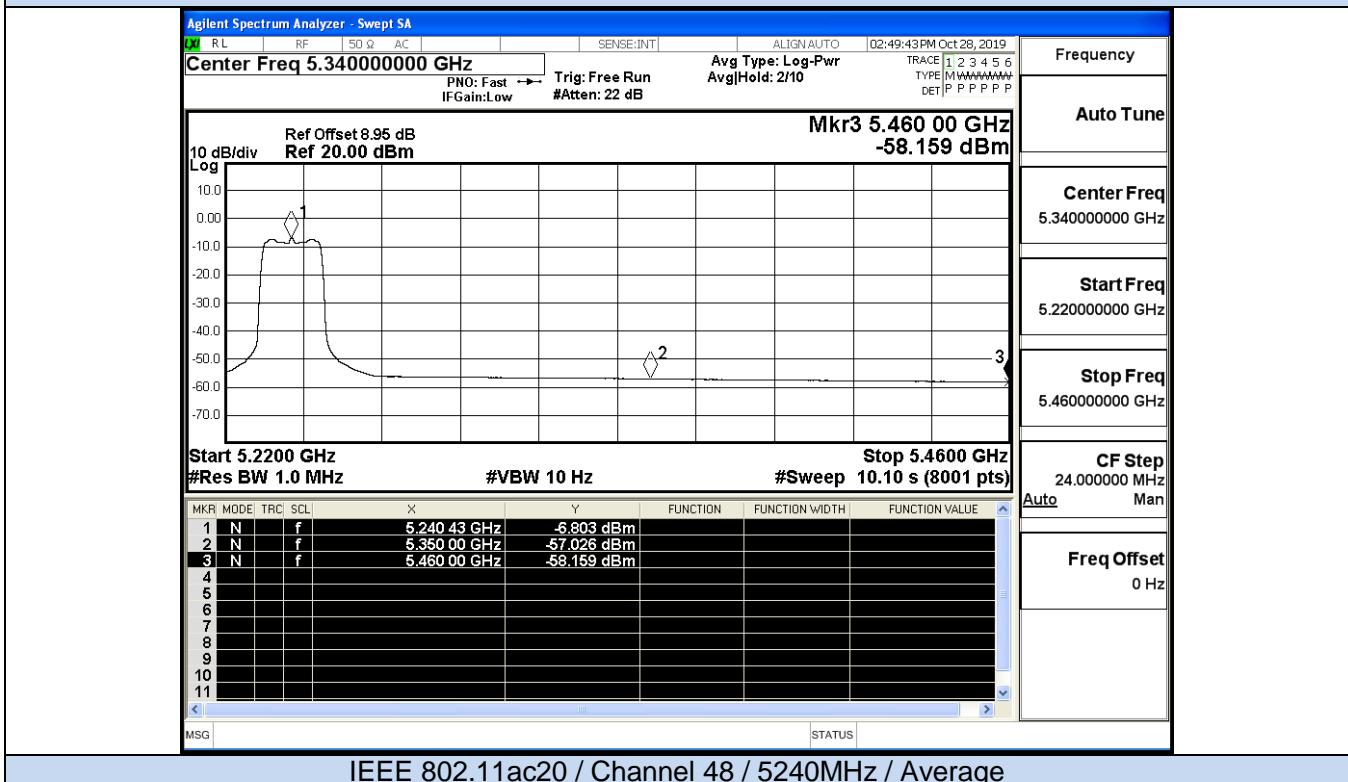
IEEE 802.11ac20 / Channel 36 / 5180MHz / Peak



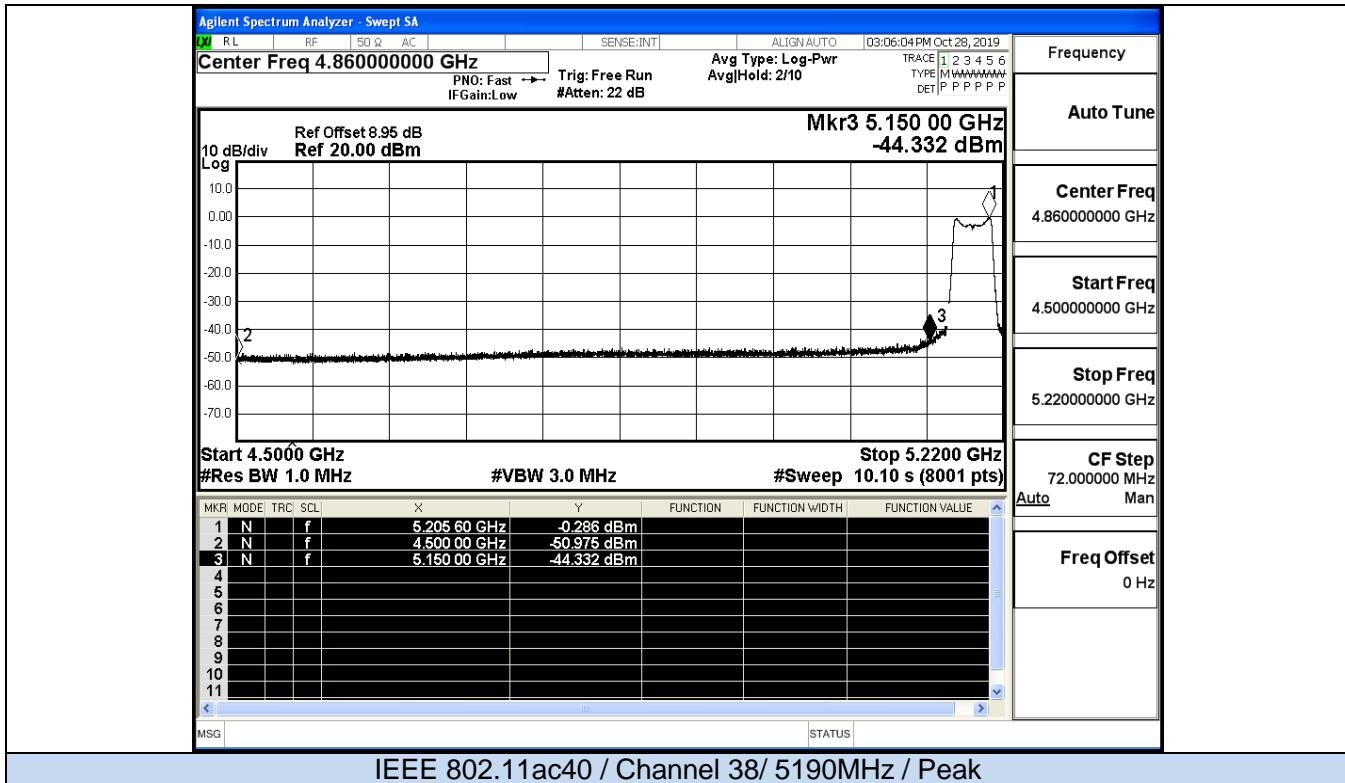
IEEE 802.11ac20 / Channel 36 / 5180MHz / Average



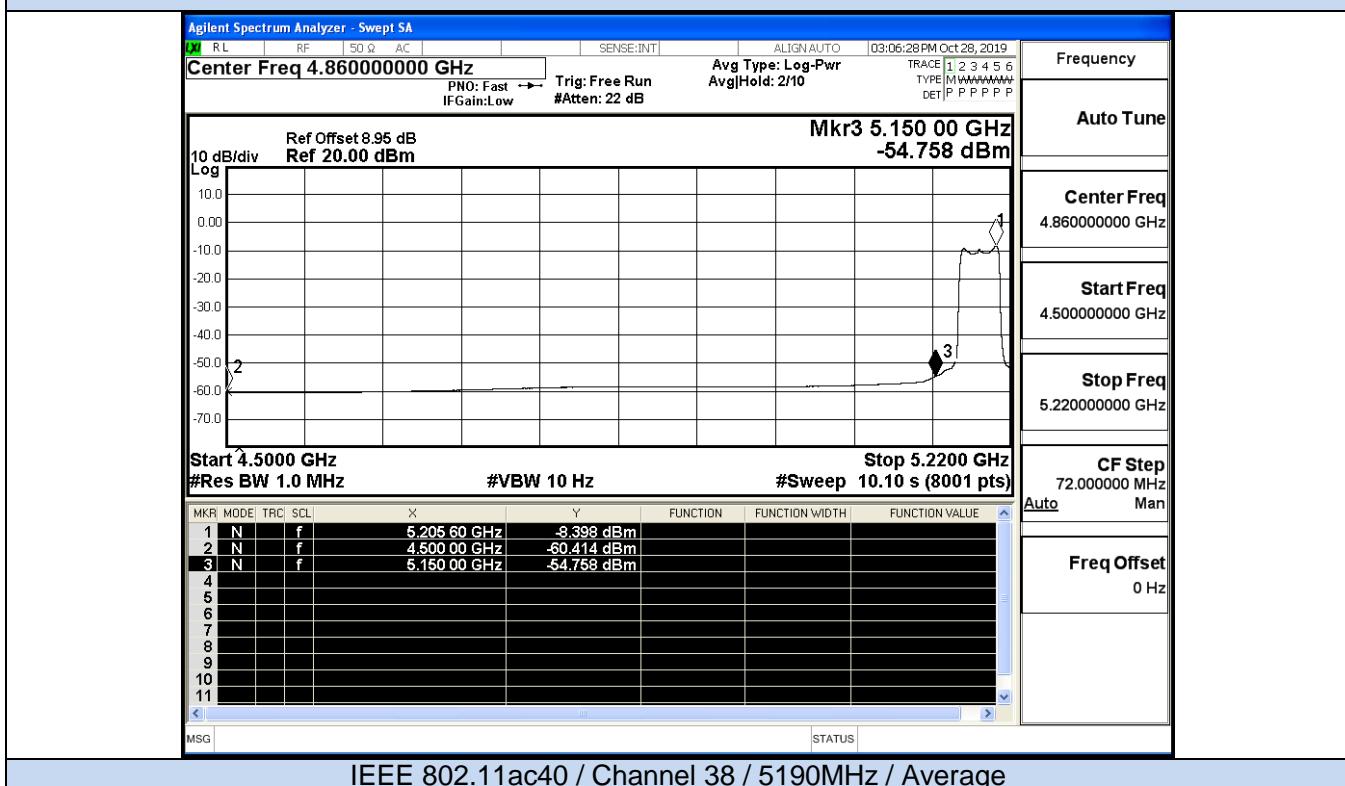
IEEE 802.11ac20 / Channel 48 / 5240MHz / Peak



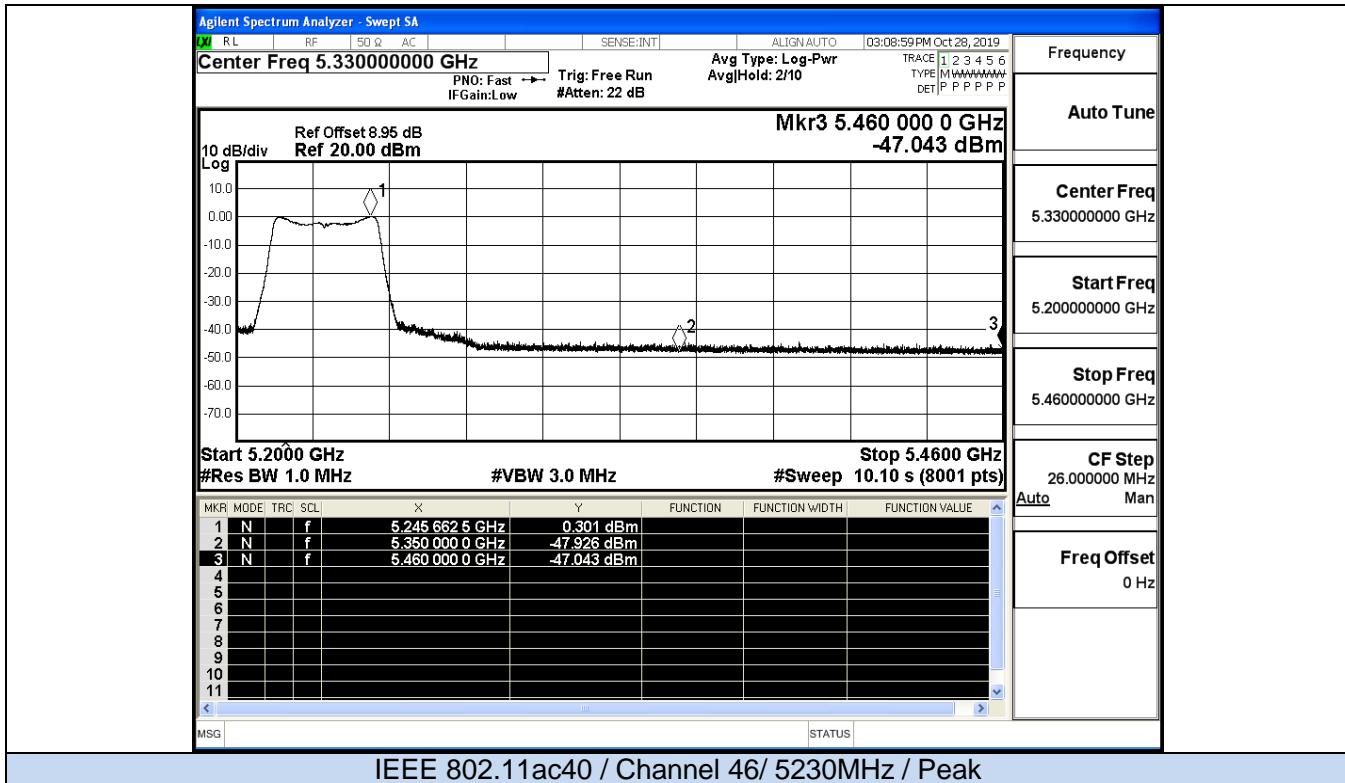
IEEE 802.11ac20 / Channel 48 / 5240MHz / Average



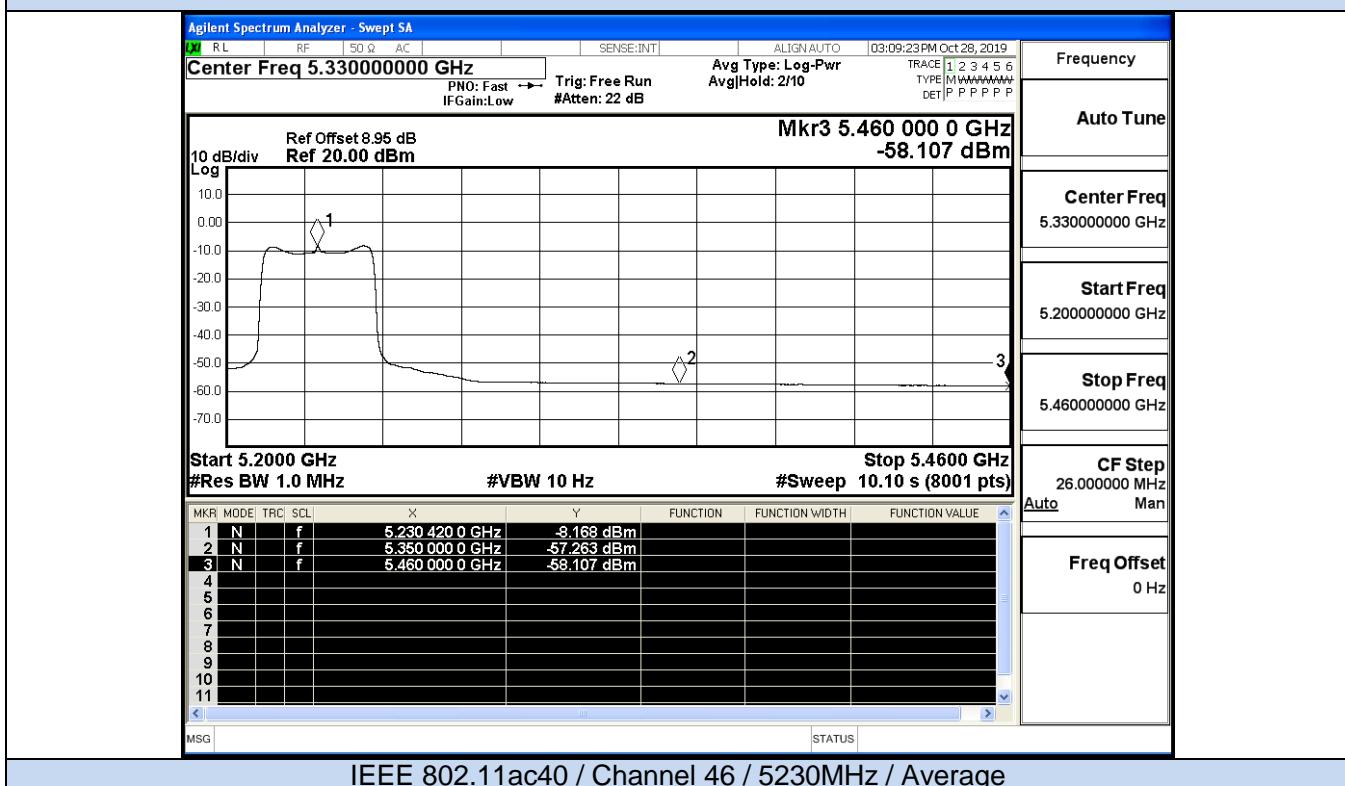
IEEE 802.11ac40 / Channel 38/ 5190MHz / Peak



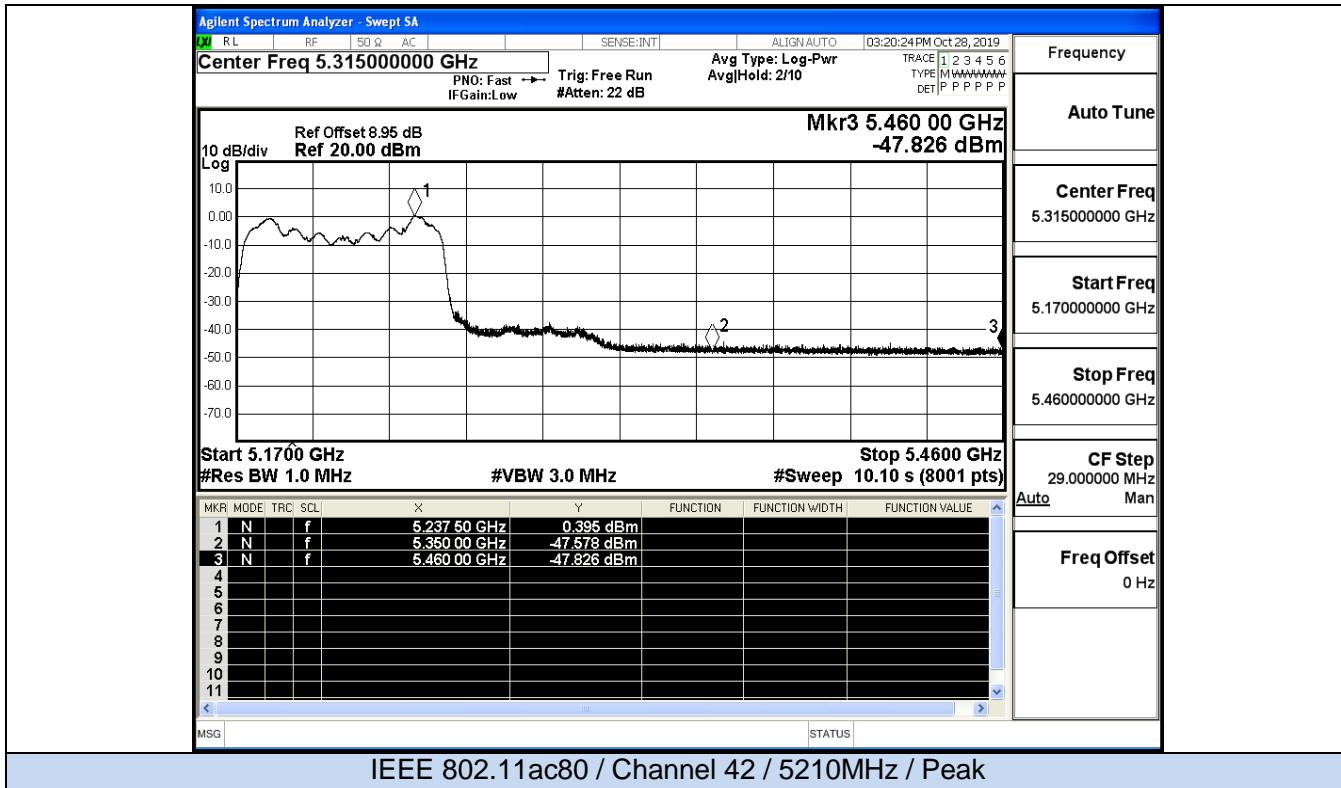
IEEE 802.11ac40 / Channel 38 / 5190MHz / Average



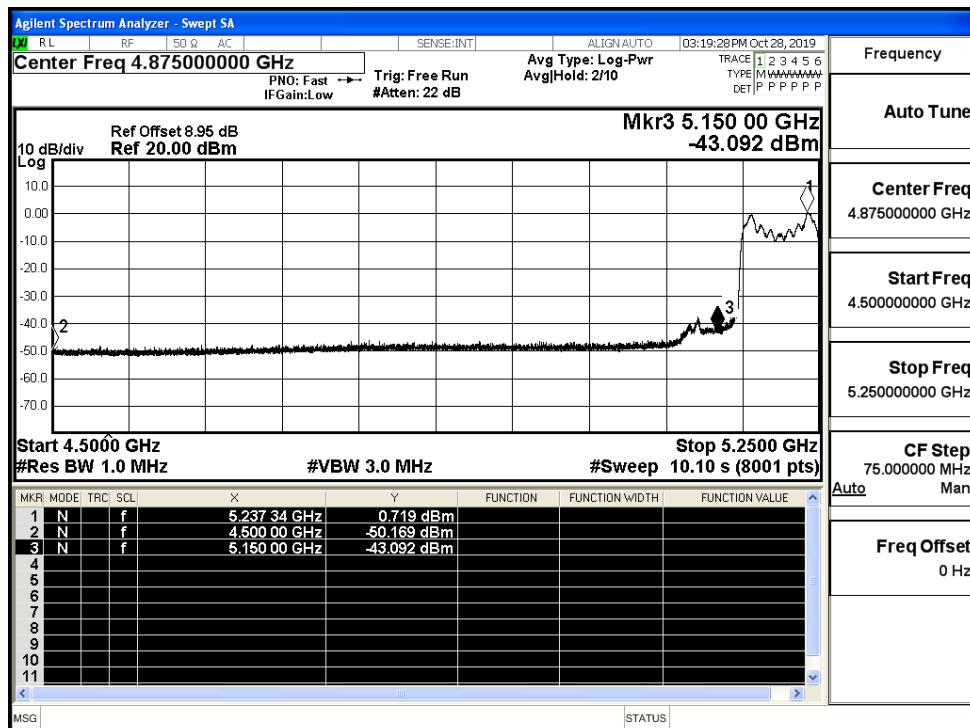
IEEE 802.11ac40 / Channel 46 / 5230MHz / Peak



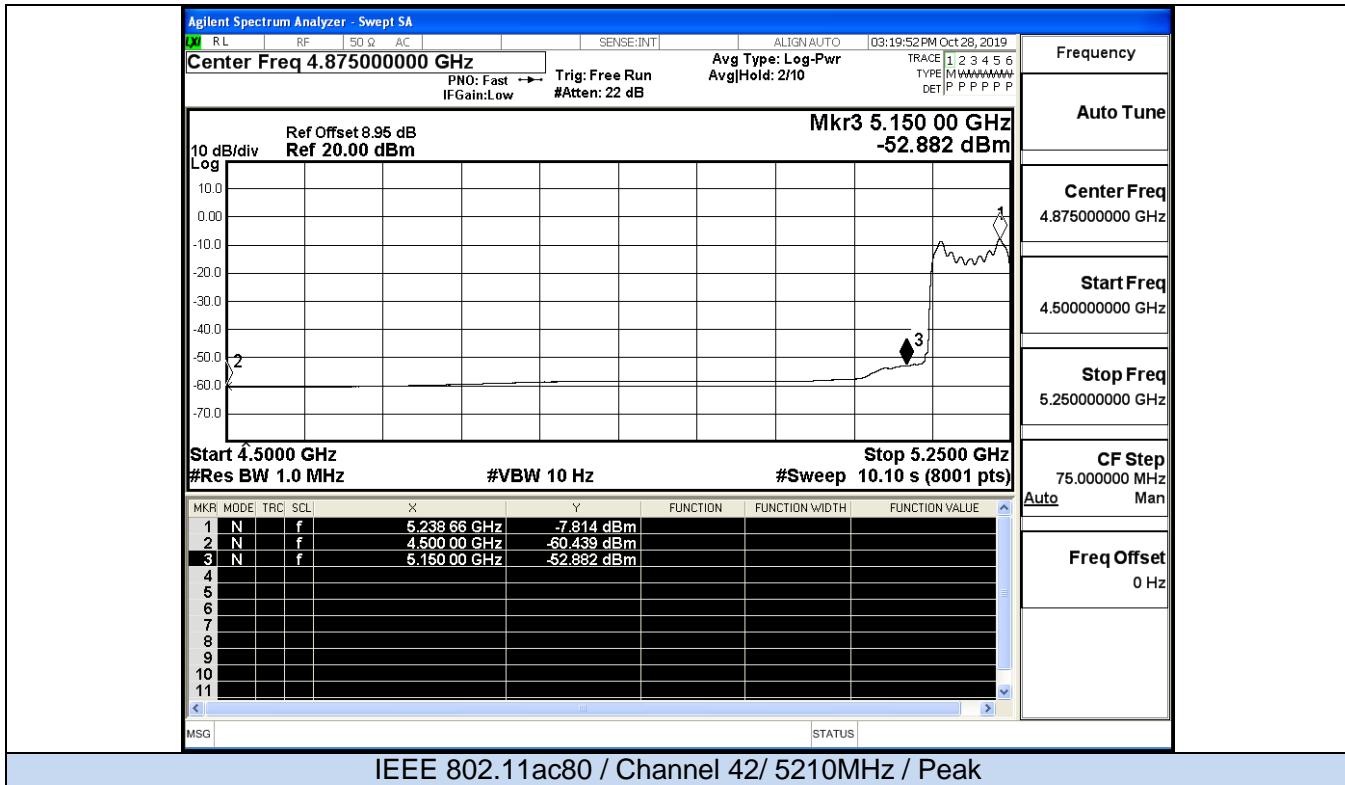
IEEE 802.11ac40 / Channel 46 / 5230MHz / Average



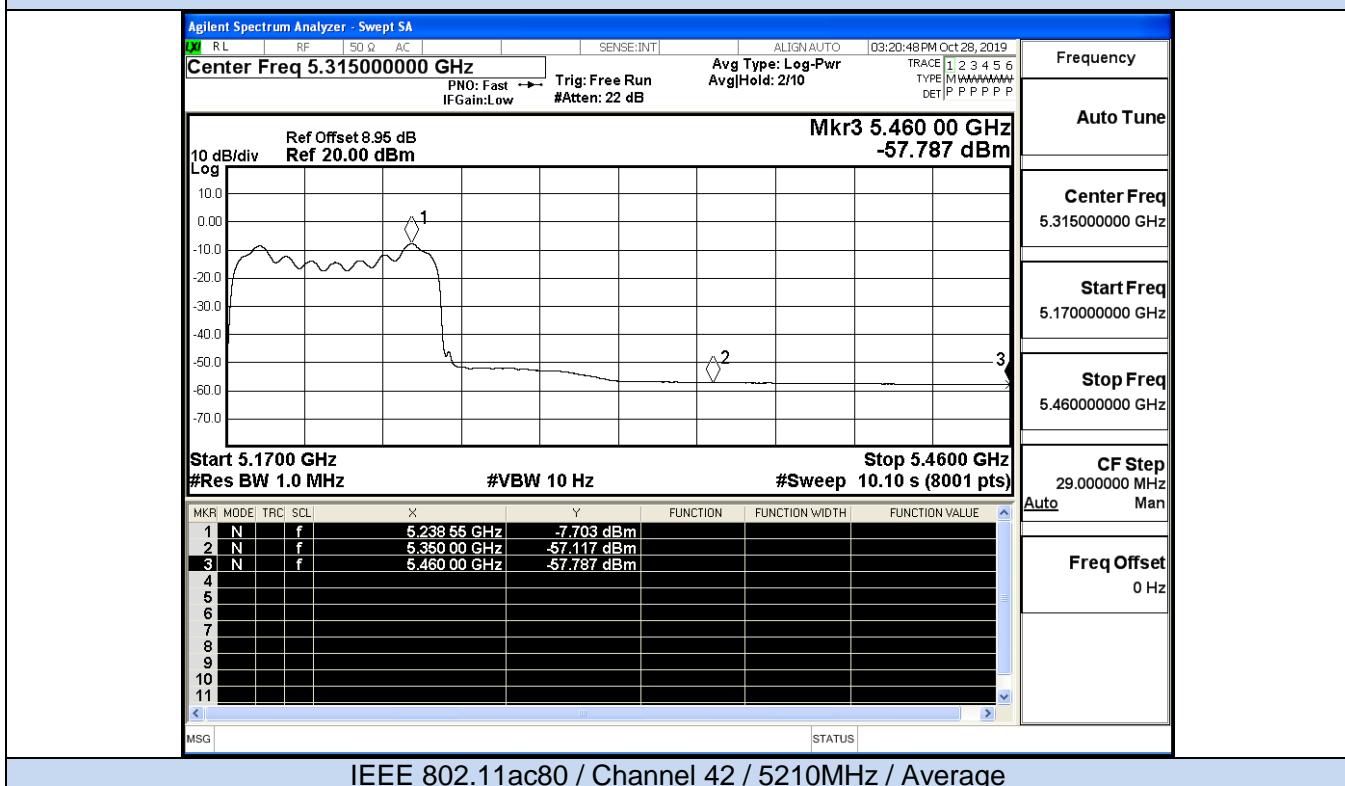
IEEE 802.11ac80 / Channel 42 / 5210MHz / Peak



IEEE 802.11ac80 / Channel 42 / 5210MHz / Average

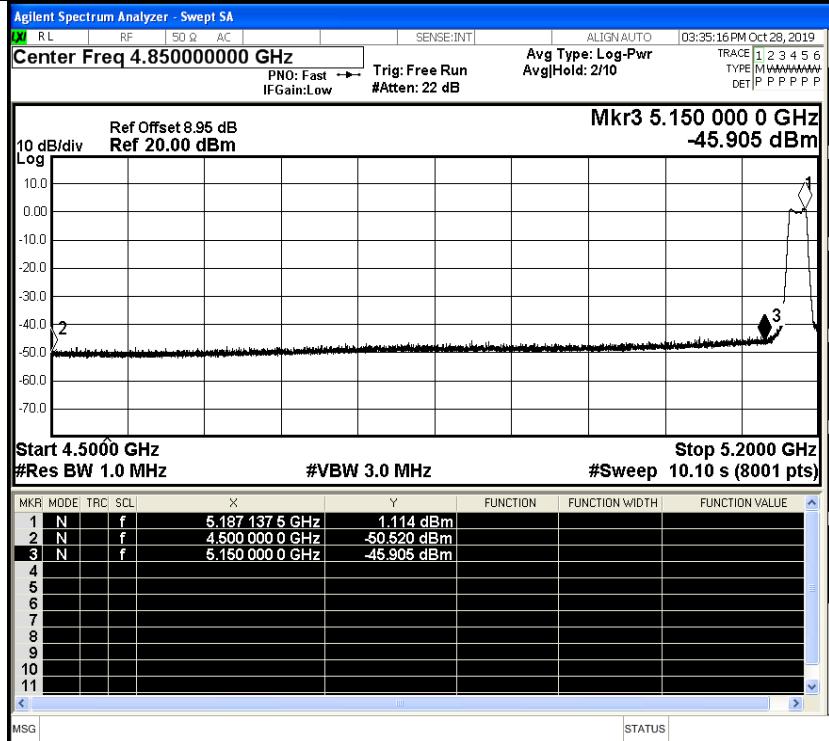


IEEE 802.11ac80 / Channel 42/ 5210MHz / Peak



IEEE 802.11ac80 / Channel 42 / 5210MHz / Average

Undesirable Emissions Measurement(Antenna 1)

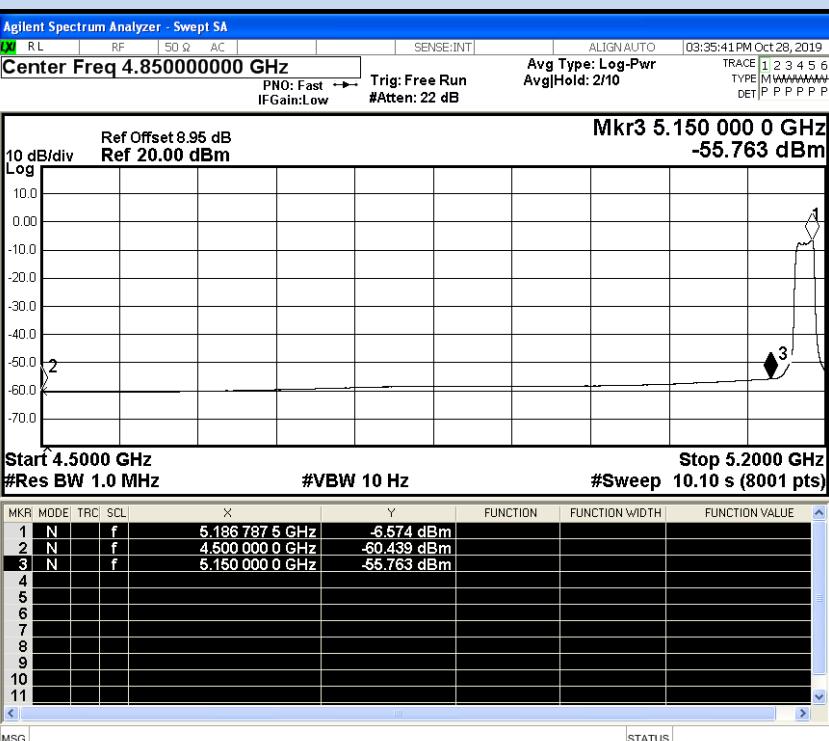


Frequency

Auto Tune

Center Freq
4.850000000 GHzStart Freq
4.500000000 GHzStop Freq
5.200000000 GHz
CF Step
70.000000 MHz
Auto ManFreq Offset
0 Hz

IEEE 802.11a / Channel 36 / 5180MHz / Peak



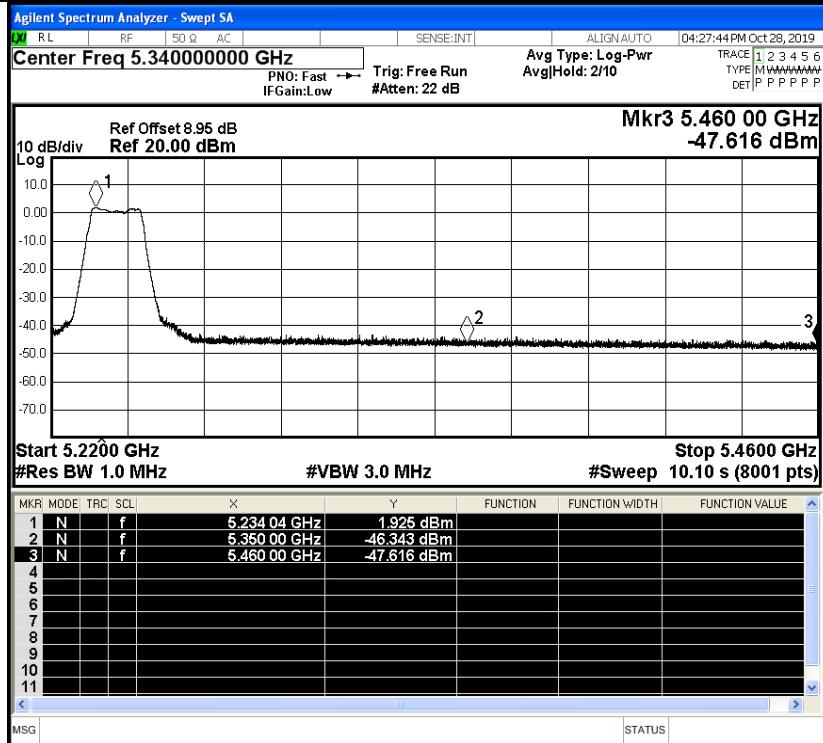
Frequency

Auto Tune

Center Freq
4.850000000 GHzStart Freq
4.500000000 GHzStop Freq
5.200000000 GHz
CF Step
70.000000 MHz
Auto ManFreq Offset
0 Hz

IEEE 802.11a / Channel 36 / 5180MHz / Average

Undesirable Emissions Measurement(Antenna 1)



Frequency

Auto Tune

Center Freq

5.340000000 GHz

Start Freq

5.220000000 GHz

Stop Freq

5.460000000 GHz

CF Step

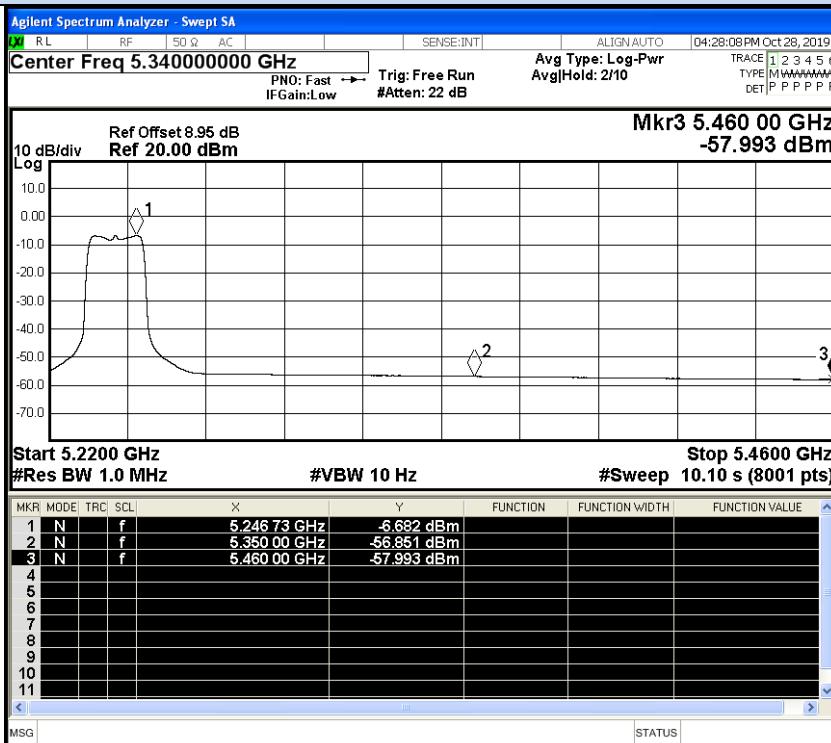
24.000000 MHz

Auto Man

Freq Offset

0 Hz

IEEE 802.11a / Channel 48 / 5240MHz / Peak



Frequency

Auto Tune

Center Freq

5.340000000 GHz

Start Freq

5.220000000 GHz

Stop Freq

5.460000000 GHz

CF Step

24.000000 MHz

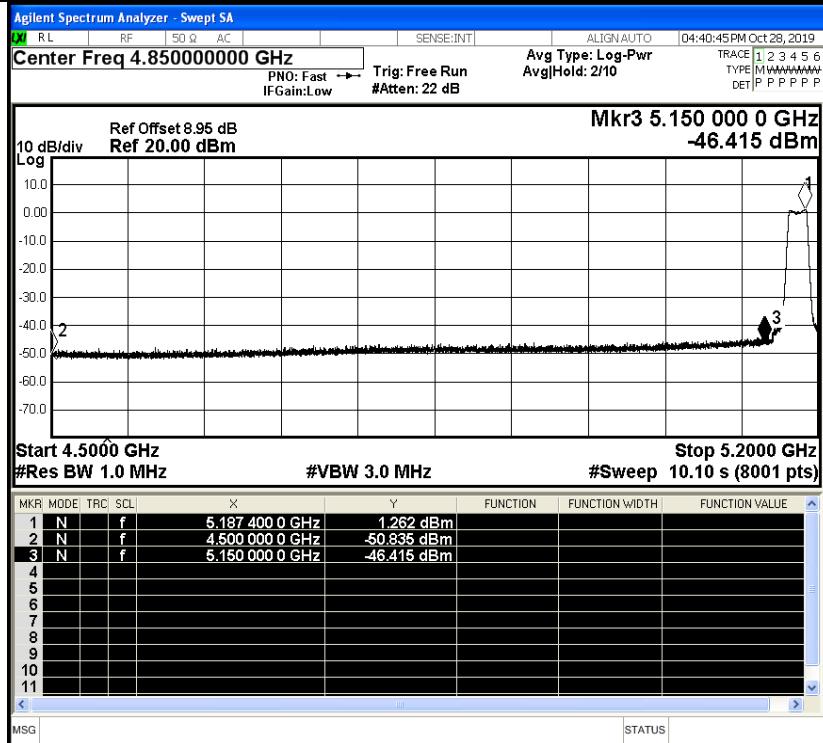
Auto Man

Freq Offset

0 Hz

IEEE 802.11a / Channel 48 / 5240MHz / Average

Undesirable Emissions Measurement(Antenna 1)



Frequency

Auto Tune

Center Freq

4.850000000 GHz

Stop Freq

5.200000000 GHz

CF Step

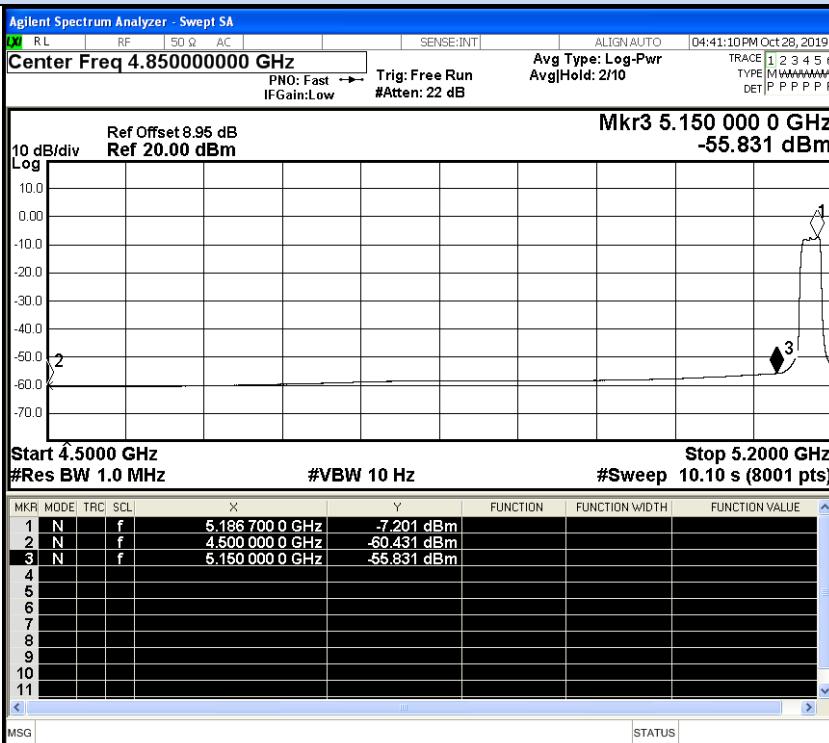
70.000000 MHz

Auto Man

Freq Offset

0 Hz

IEEE 802.11n20 / Channel 36 / 5180MHz / Peak



Frequency

Auto Tune

Center Freq

4.850000000 GHz

Stop Freq

5.200000000 GHz

CF Step

70.000000 MHz

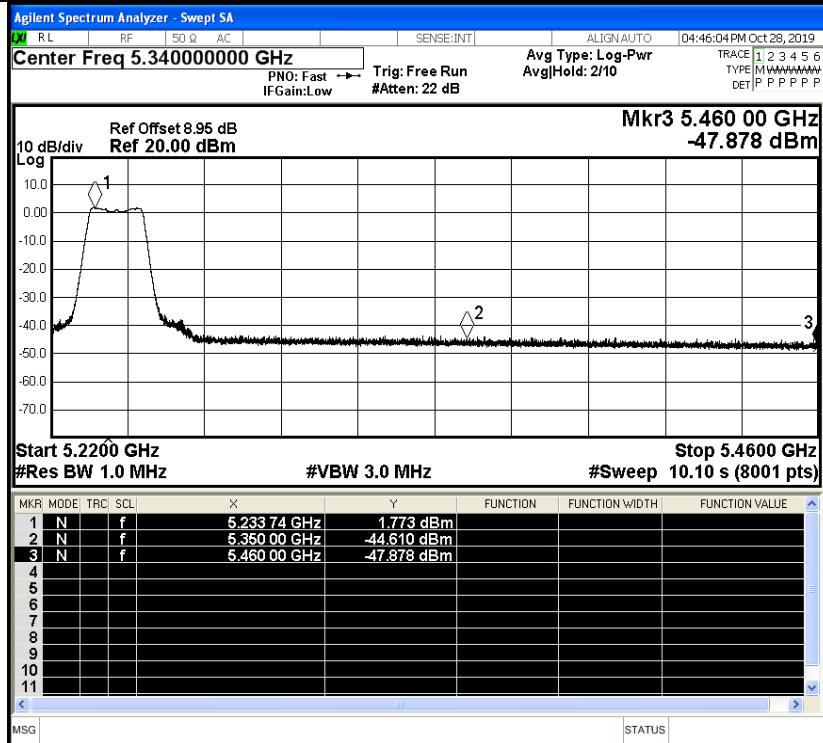
Auto Man

Freq Offset

0 Hz

IEEE 802.11n20 / Channel 36 / 5180MHz / Average

Undesirable Emissions Measurement(Antenna 1)



Frequency

Auto Tune

Center Freq

5.340000000 GHz

Start Freq

5.220000000 GHz

Stop Freq

5.460000000 GHz

CF Step

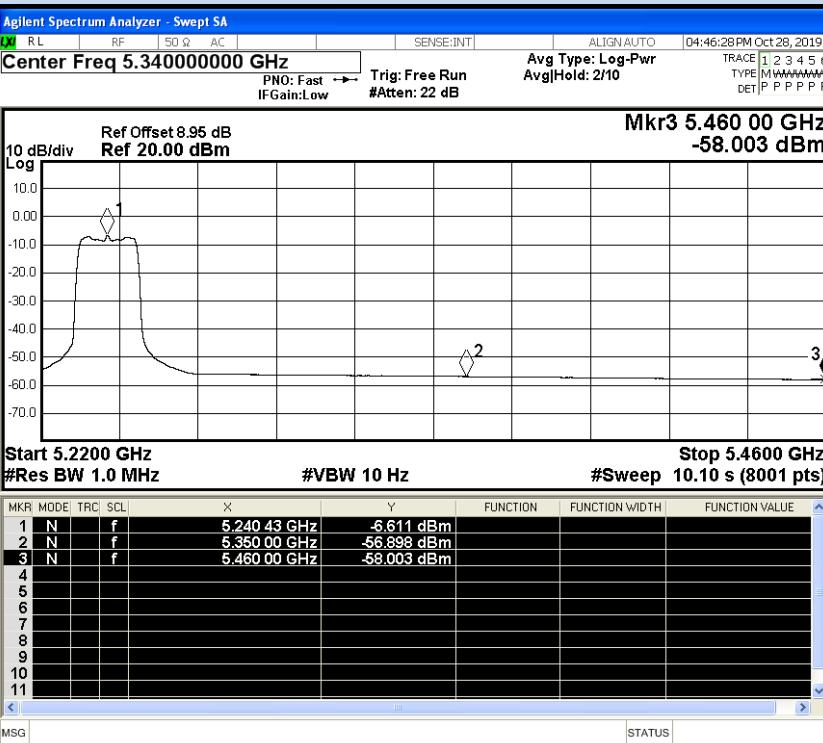
24.000000 MHz

Auto Man

Freq Offset

0 Hz

IEEE 802.11n20 / Channel 48 / 5240MHz / Peak



Frequency

Auto Tune

Center Freq

5.340000000 GHz

Start Freq

5.220000000 GHz

Stop Freq

5.460000000 GHz

CF Step

24.000000 MHz

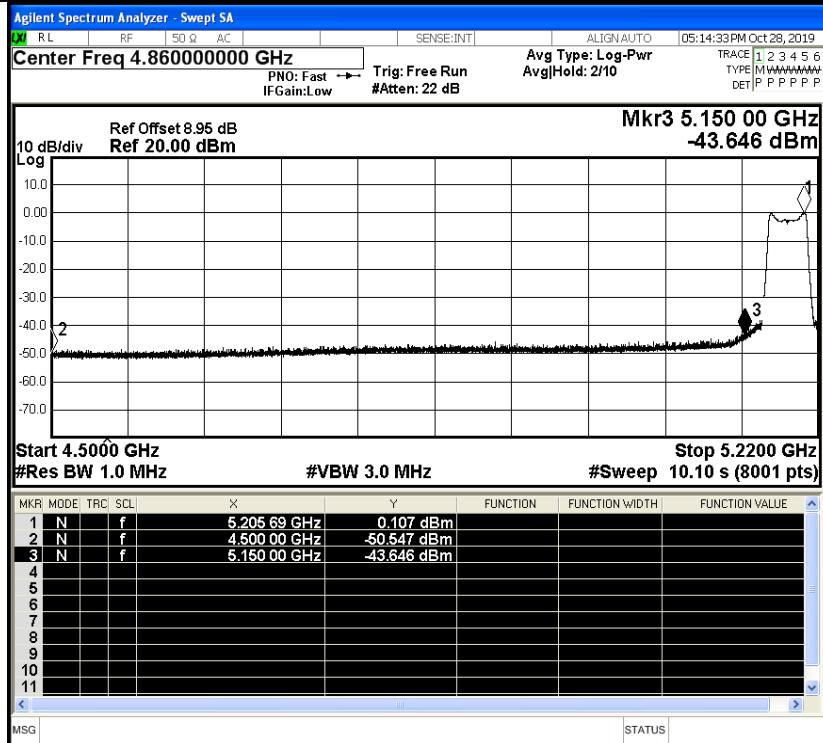
Auto Man

Freq Offset

0 Hz

IEEE 802.11n20 / Channel 48 / 5240MHz / Average

Undesirable Emissions Measurement(Antenna 1)



Frequency

Auto Tune

Center Freq

4.860000000 GHz

Stop Freq

5.220000000 GHz

CF Step

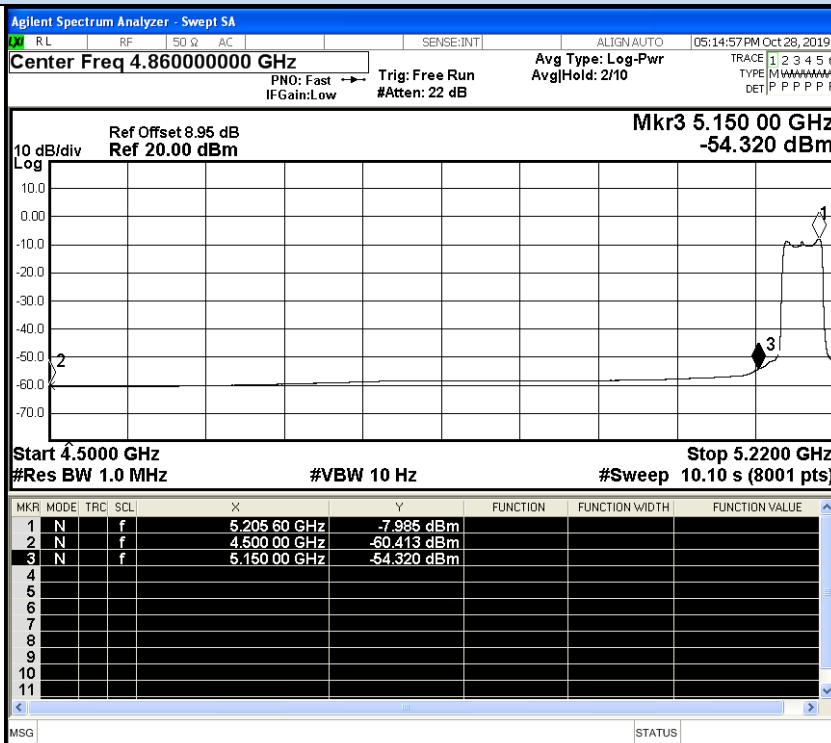
72.000000 MHz

Auto Man

Freq Offset

0 Hz

IEEE 802.11n40 / Channel 38 / 5190MHz / Peak



Frequency

Auto Tune

Center Freq

4.860000000 GHz

Stop Freq

5.220000000 GHz

CF Step

72.000000 MHz

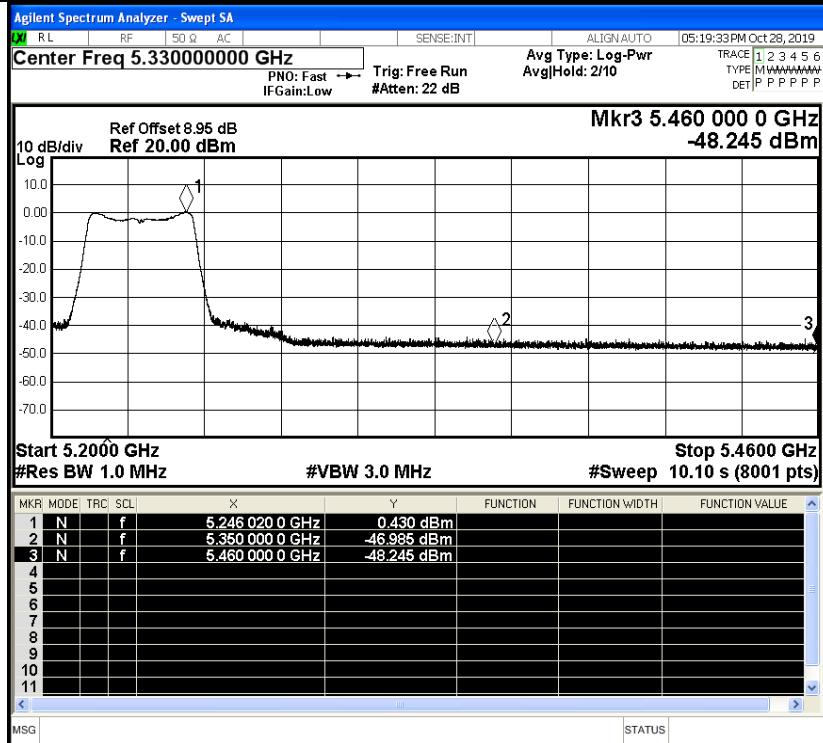
Auto Man

Freq Offset

0 Hz

IEEE 802.11n40 / Channel 38 / 5190MHz / Average

Undesirable Emissions Measurement(Antenna 1)



Frequency

Auto Tune

Center Freq

5.330000000 GHz

Start Freq

5.200000000 GHz

Stop Freq

5.460000000 GHz

CF Step

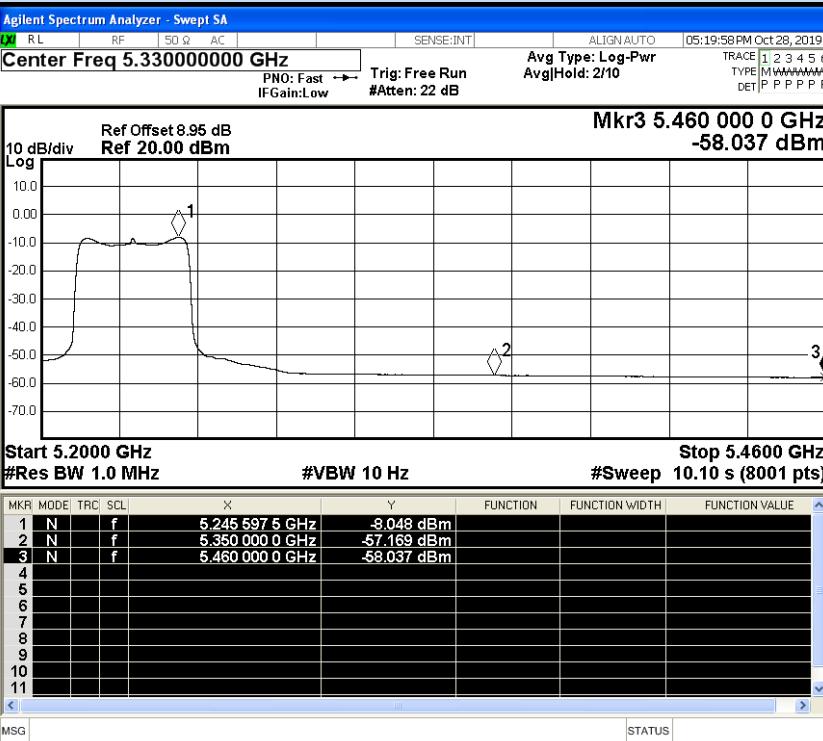
26.000000 MHz

Auto Man

Freq Offset

0 Hz

IEEE 802.11n40 / Channel 46 / 5230MHz / Peak



Frequency

Auto Tune

Center Freq

5.330000000 GHz

Start Freq

5.200000000 GHz

Stop Freq

5.460000000 GHz

CF Step

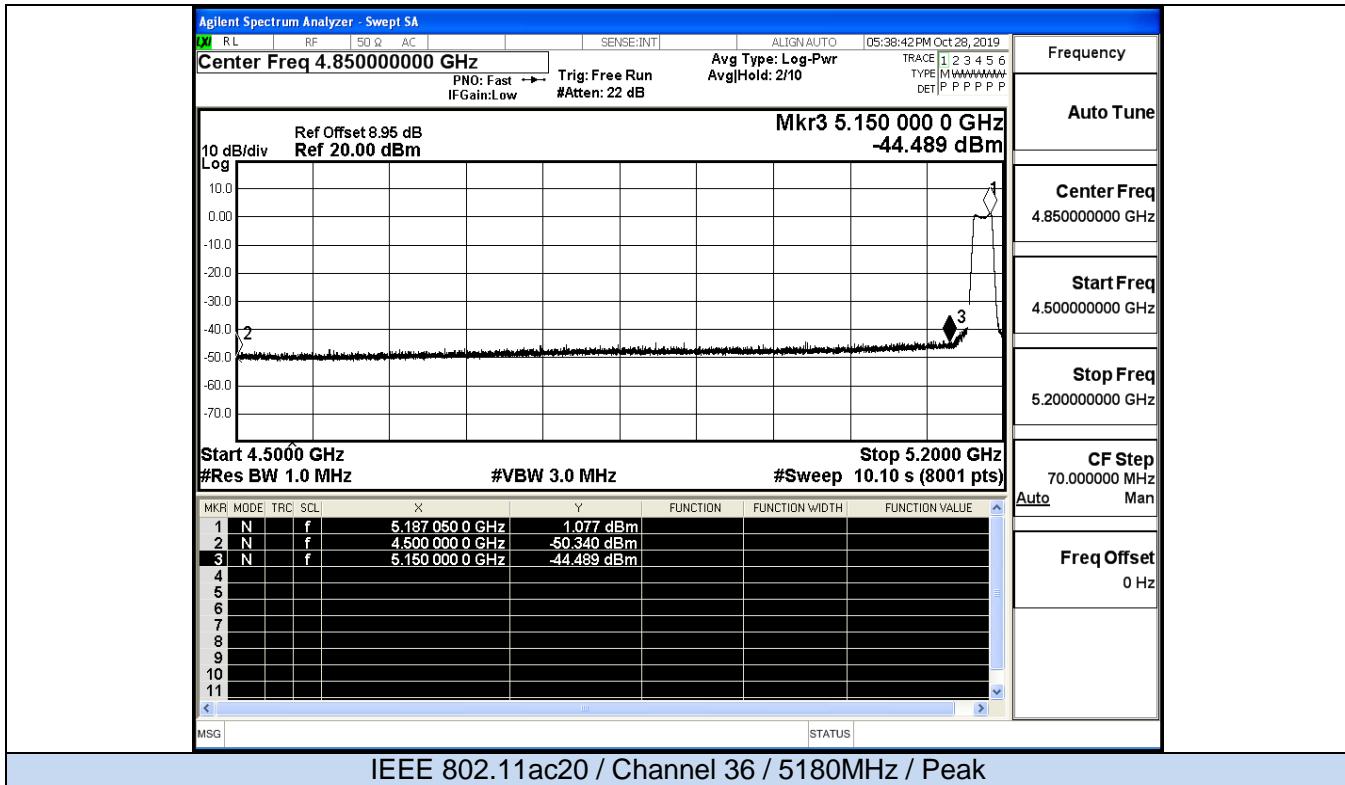
26.000000 MHz

Auto Man

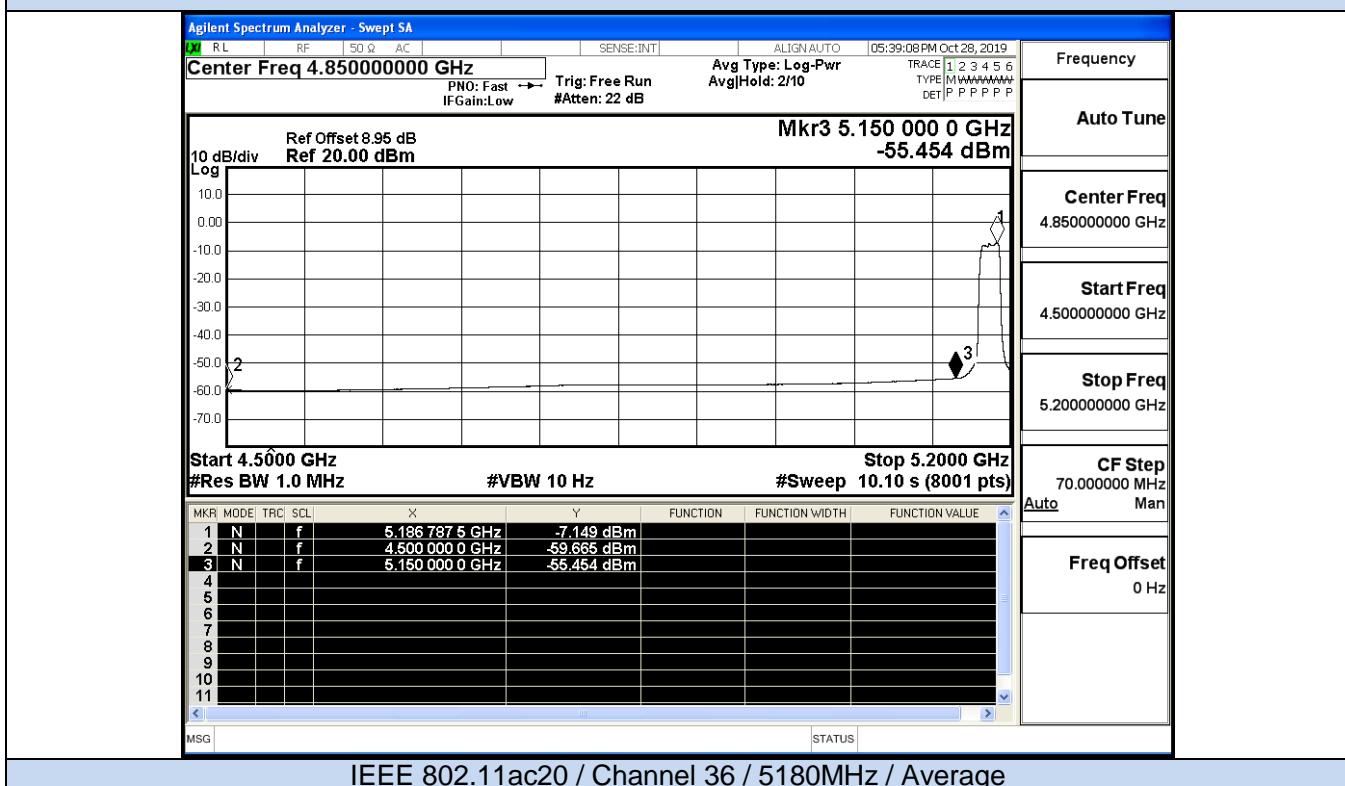
Freq Offset

0 Hz

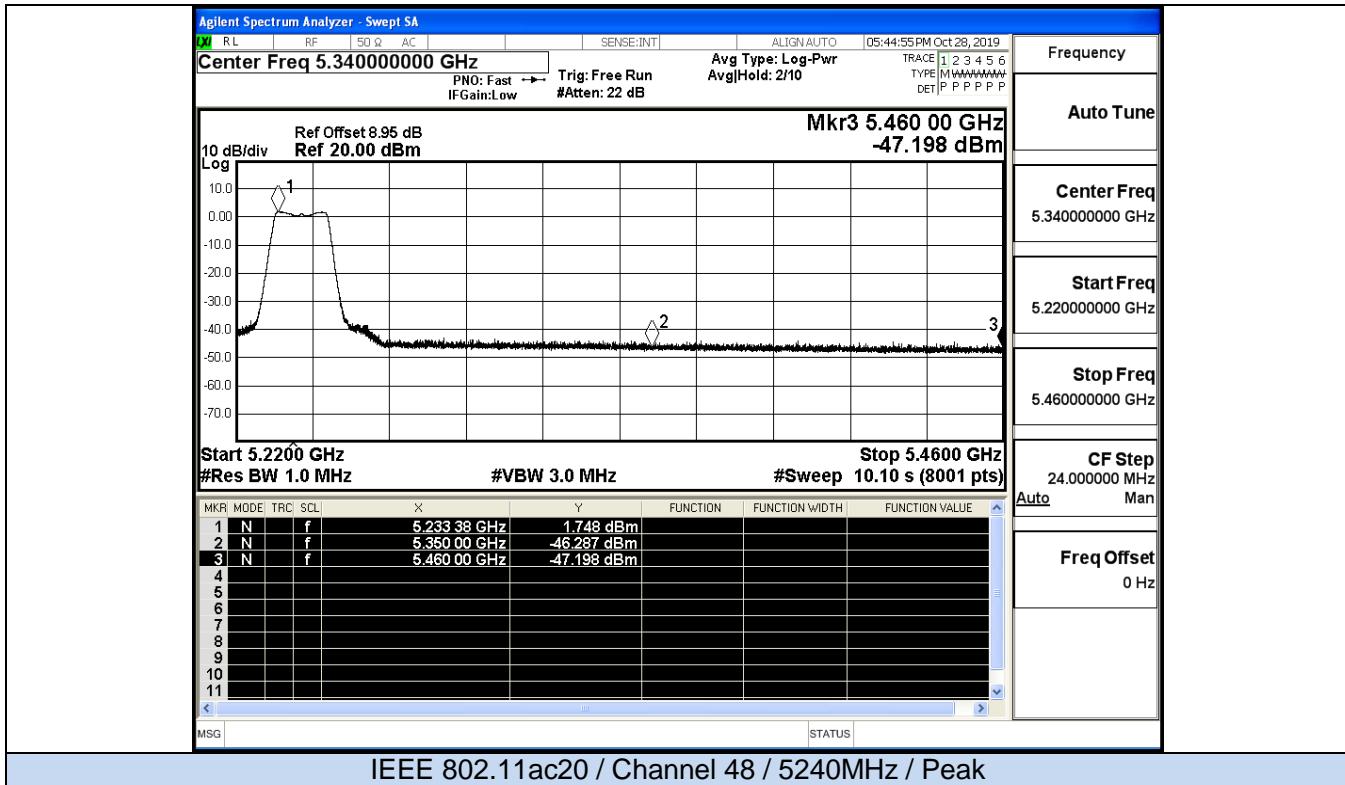
IEEE 802.11n40 / Channel 46 / 5230MHz / Average



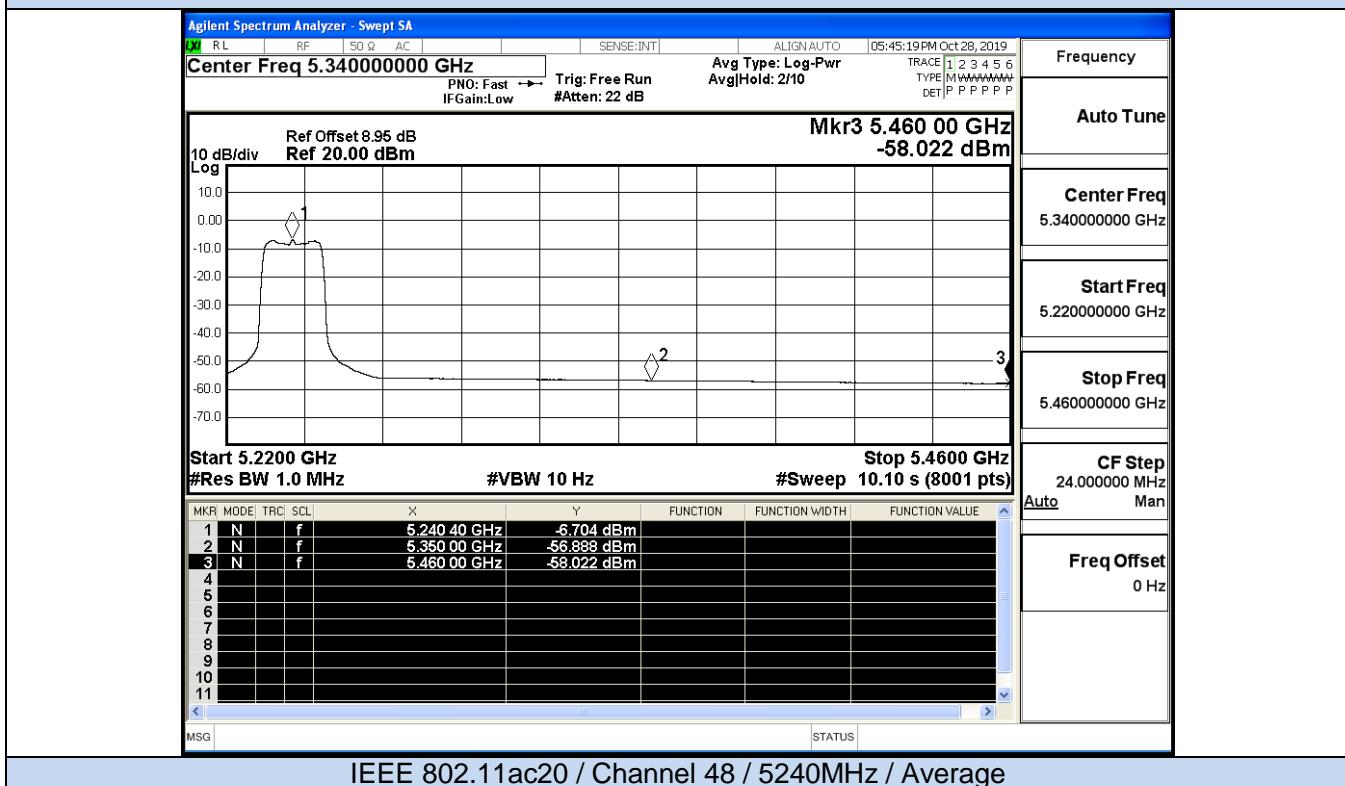
IEEE 802.11ac20 / Channel 36 / 5180MHz / Peak



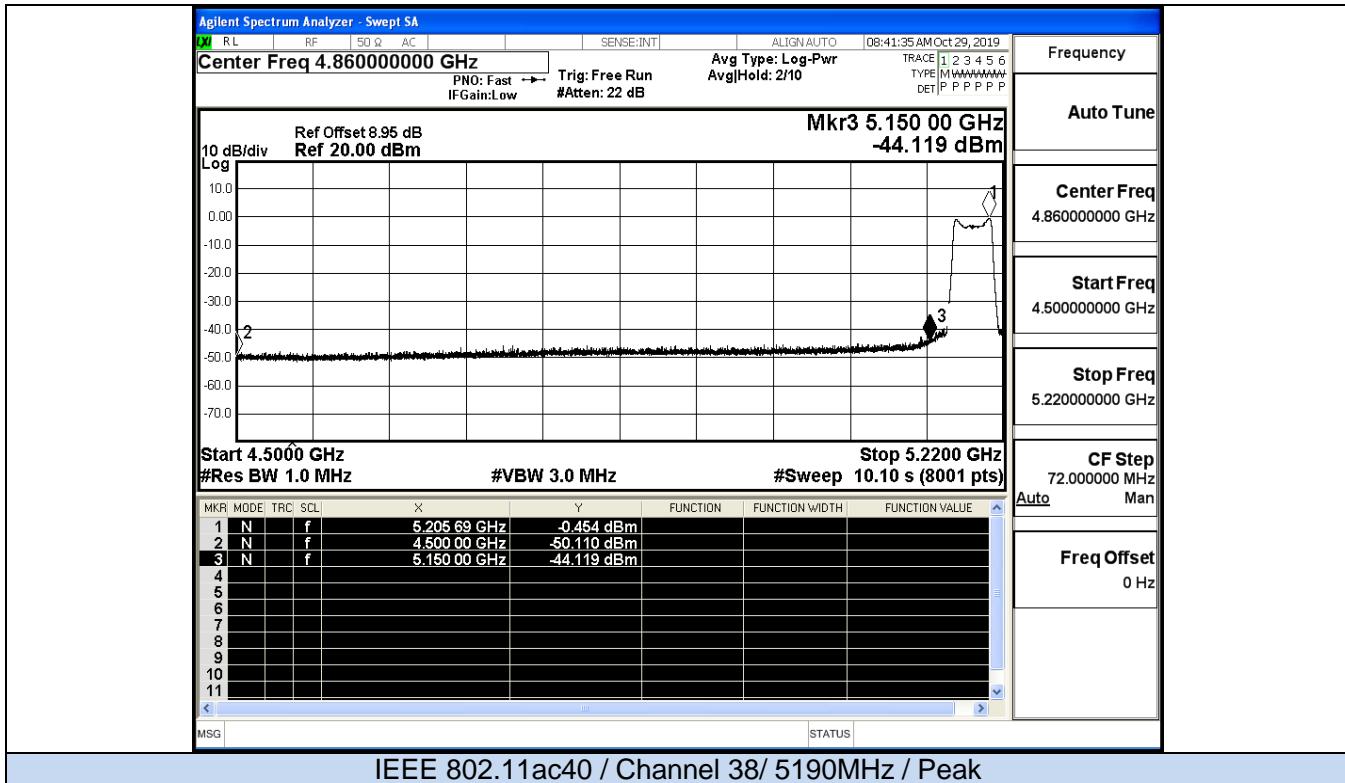
IEEE 802.11ac20 / Channel 36 / 5180MHz / Average



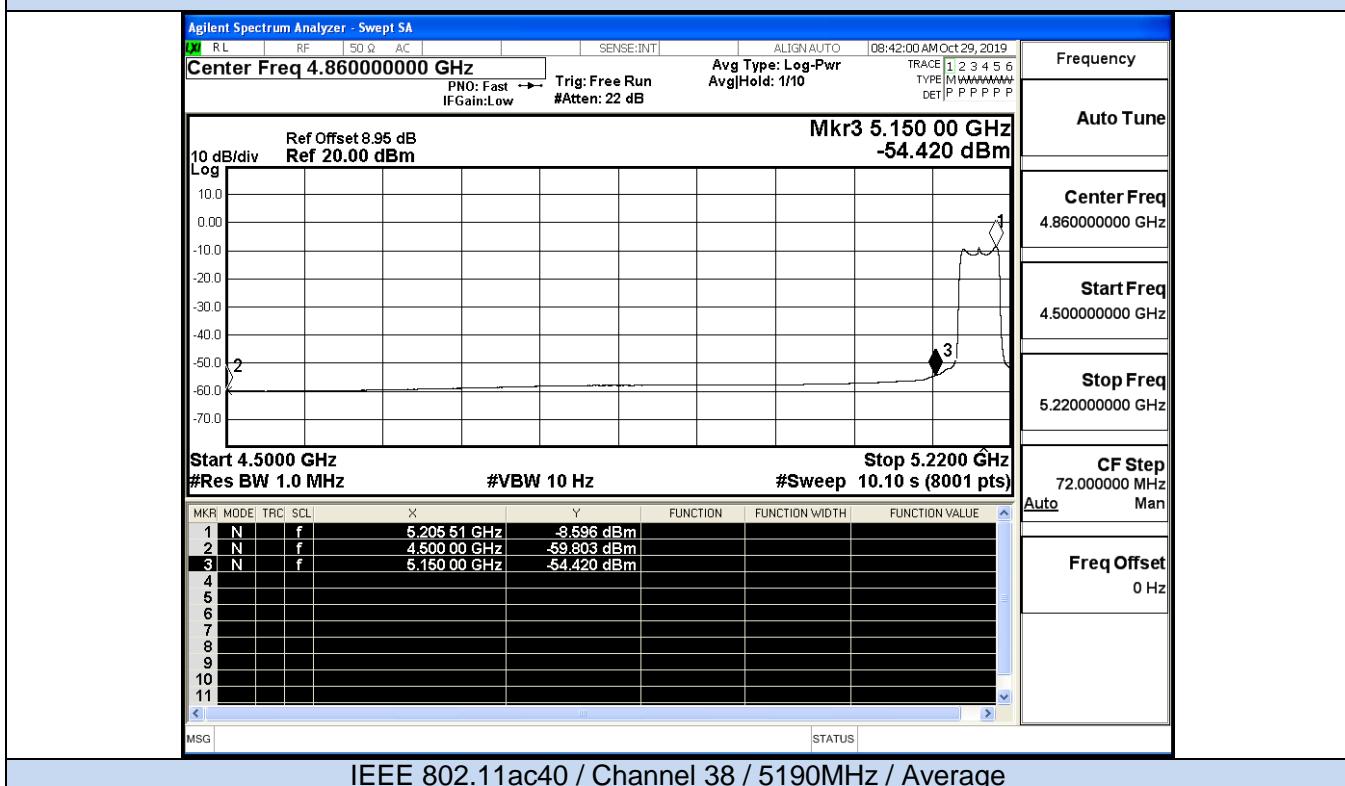
IEEE 802.11ac20 / Channel 48 / 5240MHz / Peak



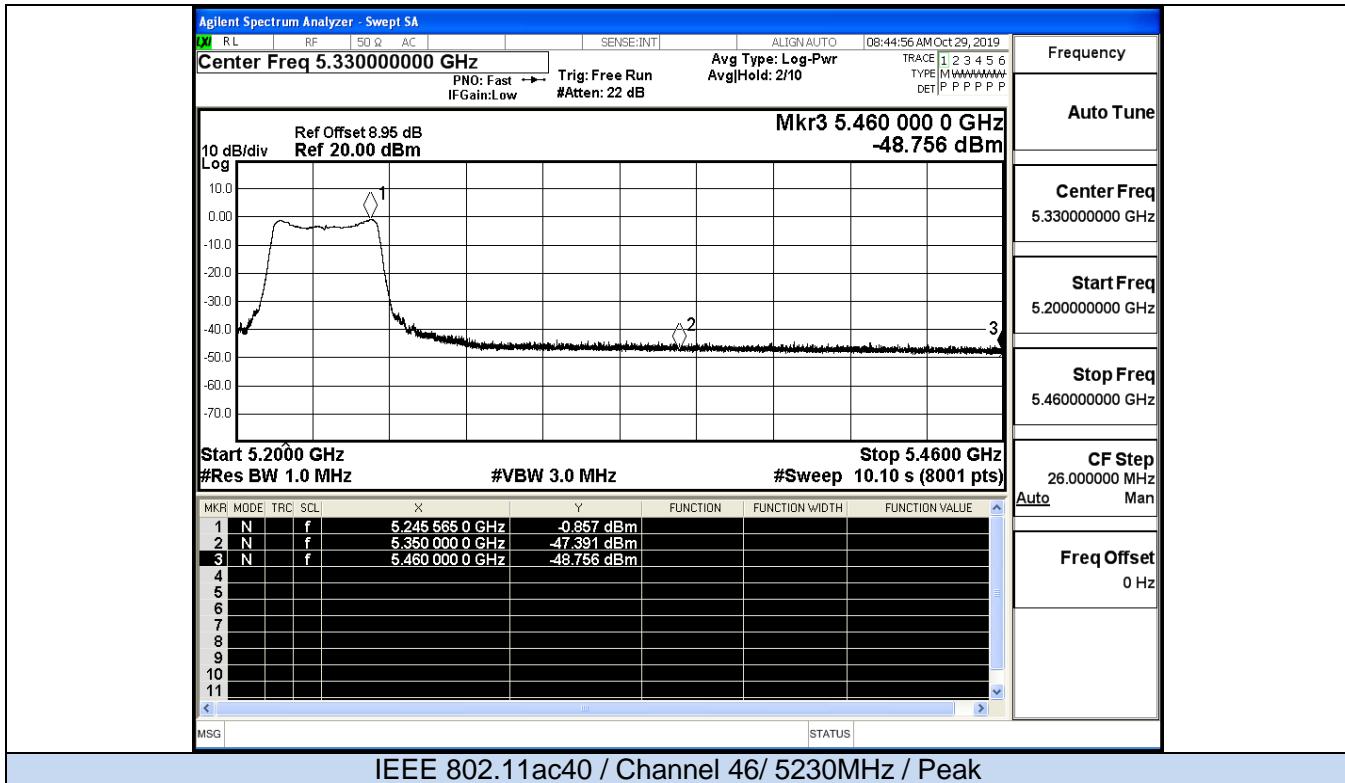
IEEE 802.11ac20 / Channel 48 / 5240MHz / Average



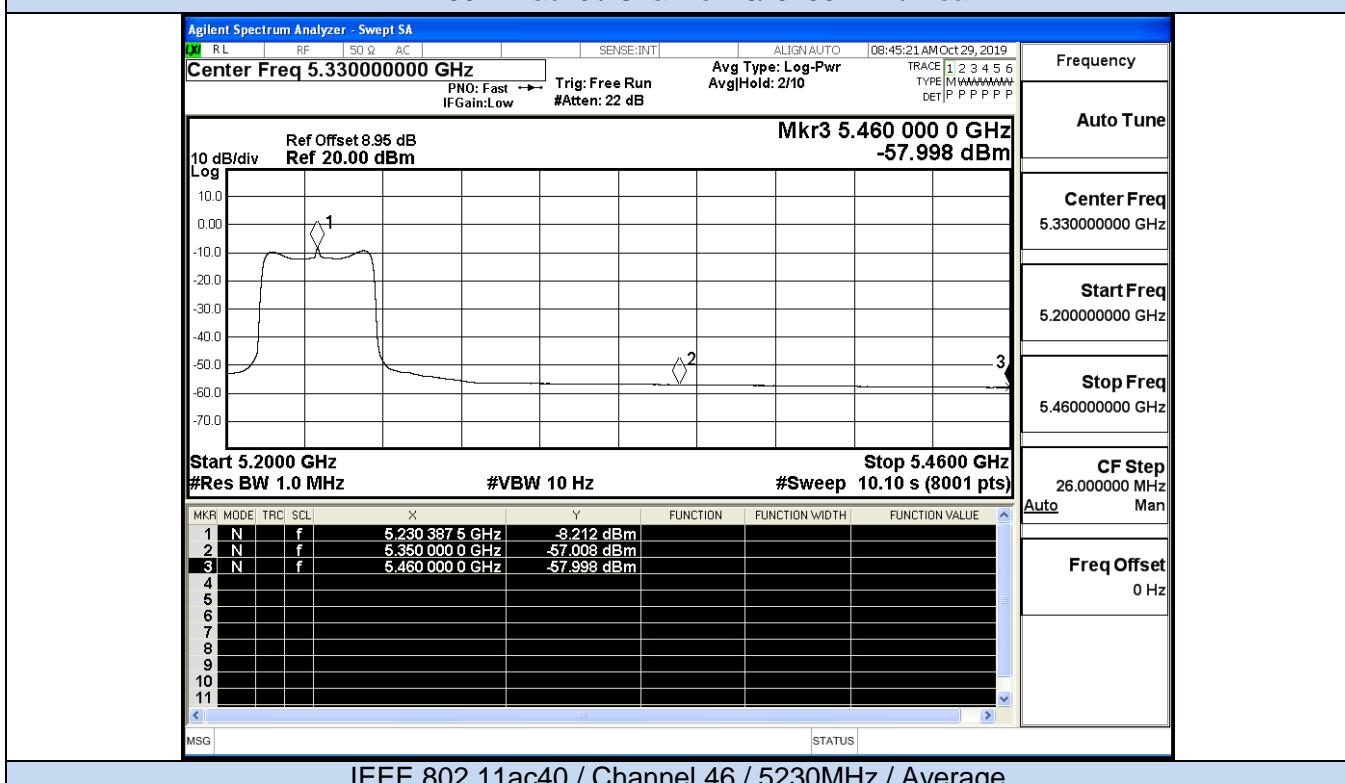
IEEE 802.11ac40 / Channel 38 / 5190MHz / Peak



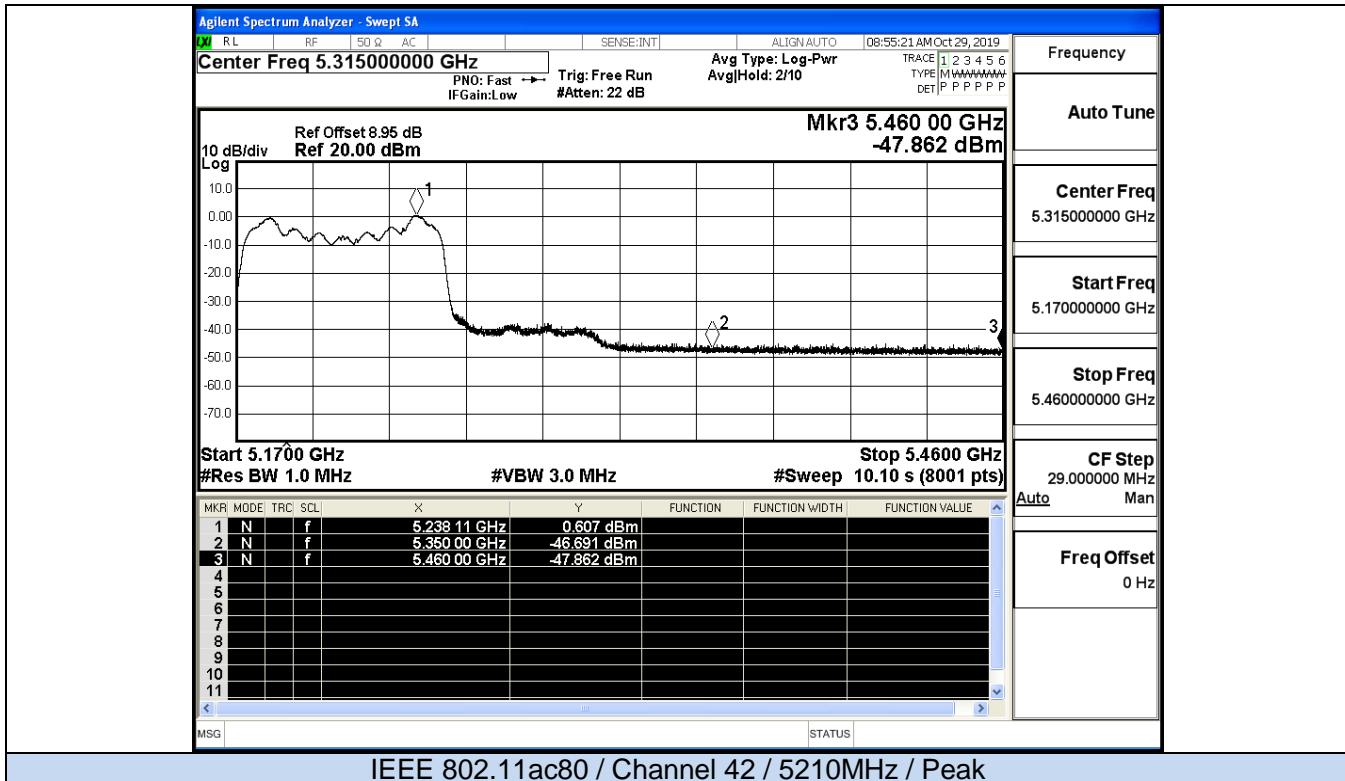
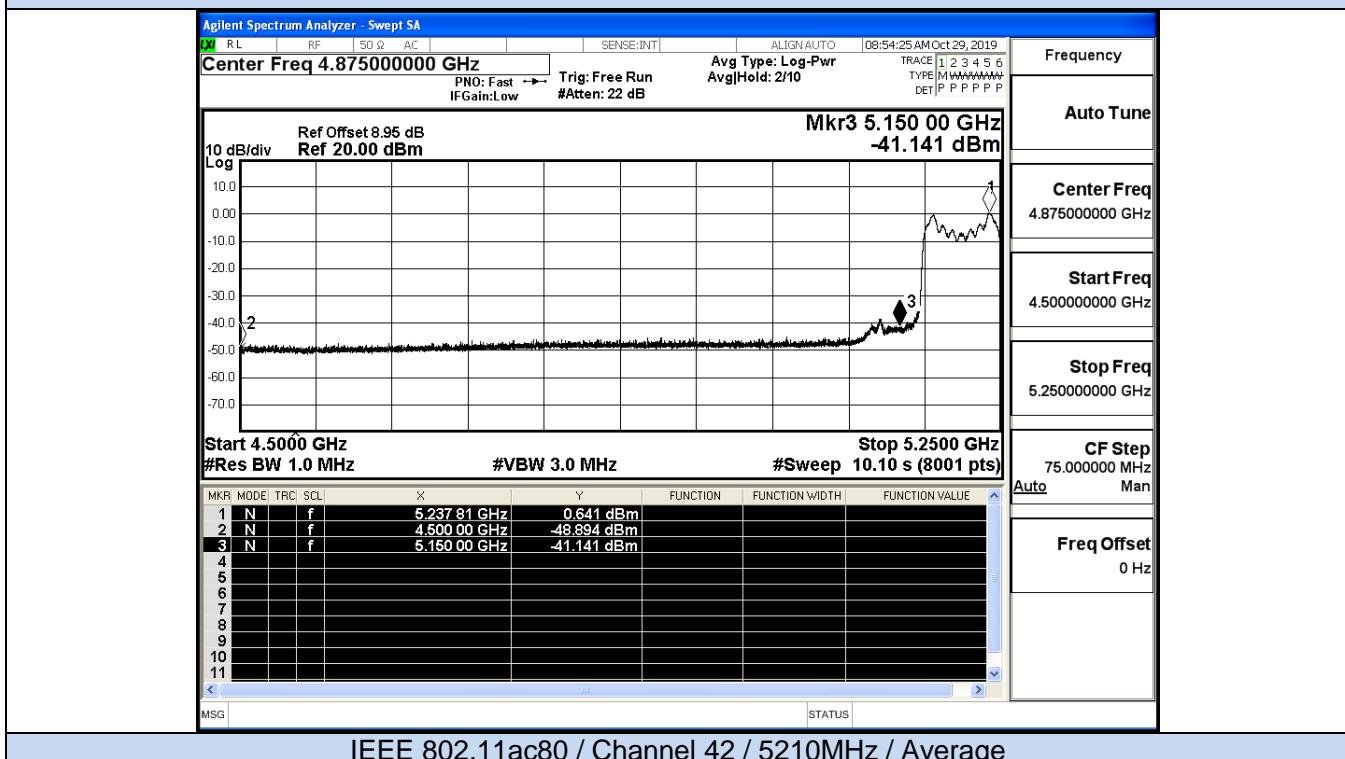
IEEE 802.11ac40 / Channel 38 / 5190MHz / Average

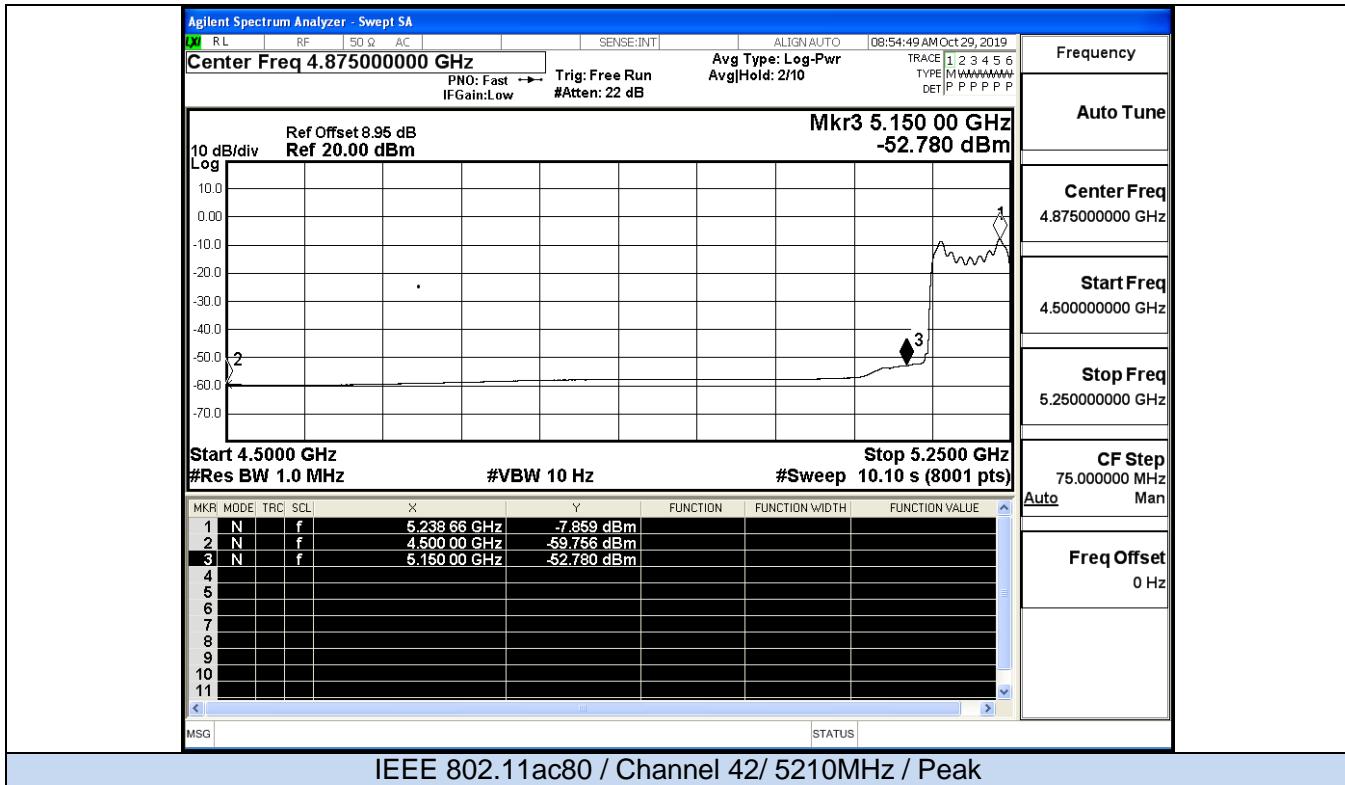


IEEE 802.11ac40 / Channel 46 / 5230MHz / Peak

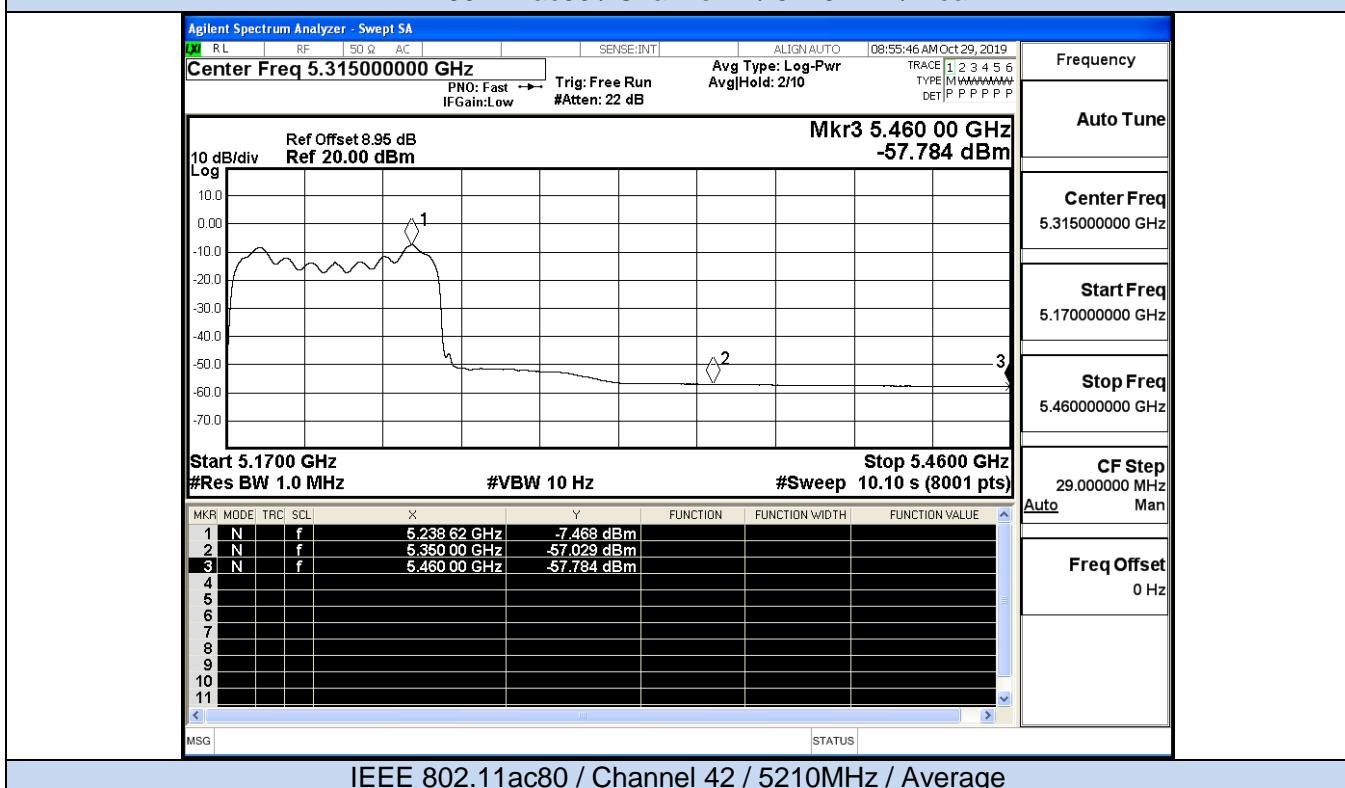


IEEE 802.11ac40 / Channel 46 / 5230MHz / Average

**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