

## Appendix F

### RF Test Data for 5.3G WLAN (Conducted Measurement)

Product Name: All-in-one Tablet  
Trade Mark: STRATATACHE/SCALA  
Test Model: ST156

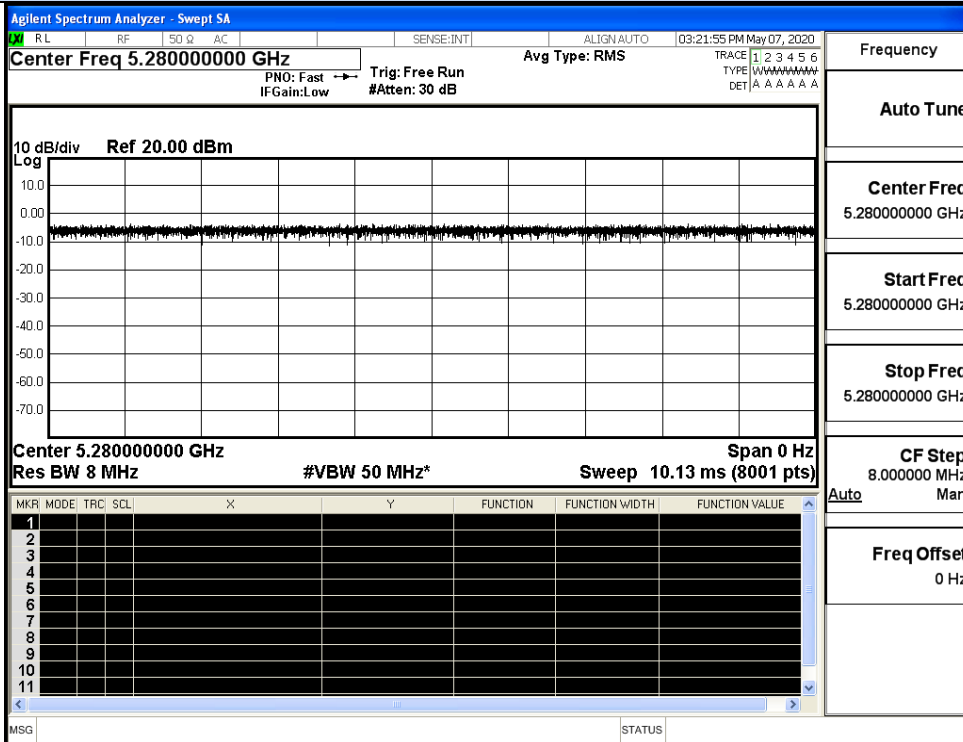
#### Environmental Conditions

Temperature:	24.8 ° C
Relative Humidity:	52.9%
ATM Pressure:	100.0 kPa
Test Engineer:	David.Luo
Supervised by:	Tom.Liu

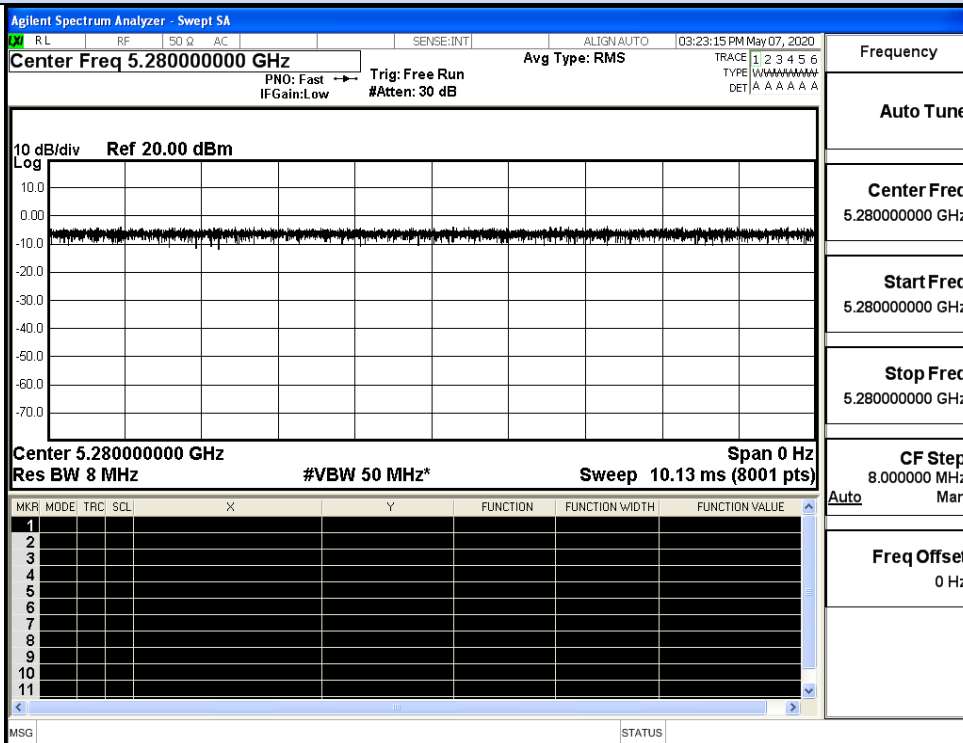
#### F.1 Duty Cycle

Test Mode	Test Frequency (MHz)	Duty Cycle (%)	10log(1/x) Factor (dB)	1/B Minimum VBW(KHz)
11A	5280	100	0.00	0.01
11N20 SISO	5280	100	0.00	0.01
11N40 SISO	5270	100	0.00	0.01
11AC20 SISO	5280	100	0.00	0.01
11AC40 SISO	5270	100	0.00	0.01
11AC80 SISO	5290	100	0.00	0.01

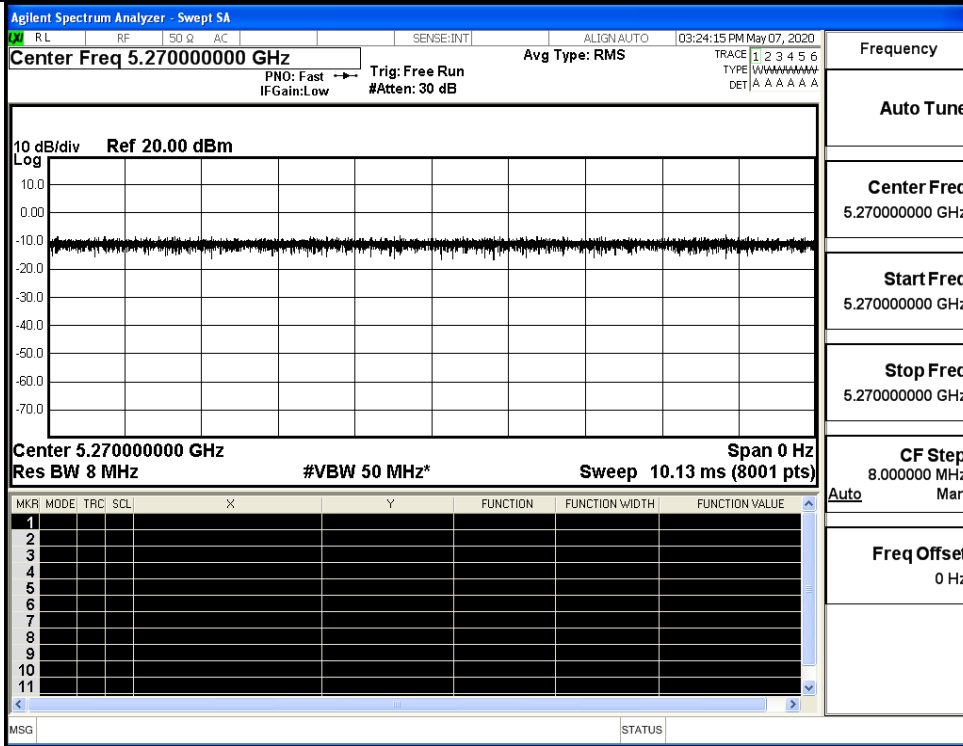
On Time and Duty Cycle



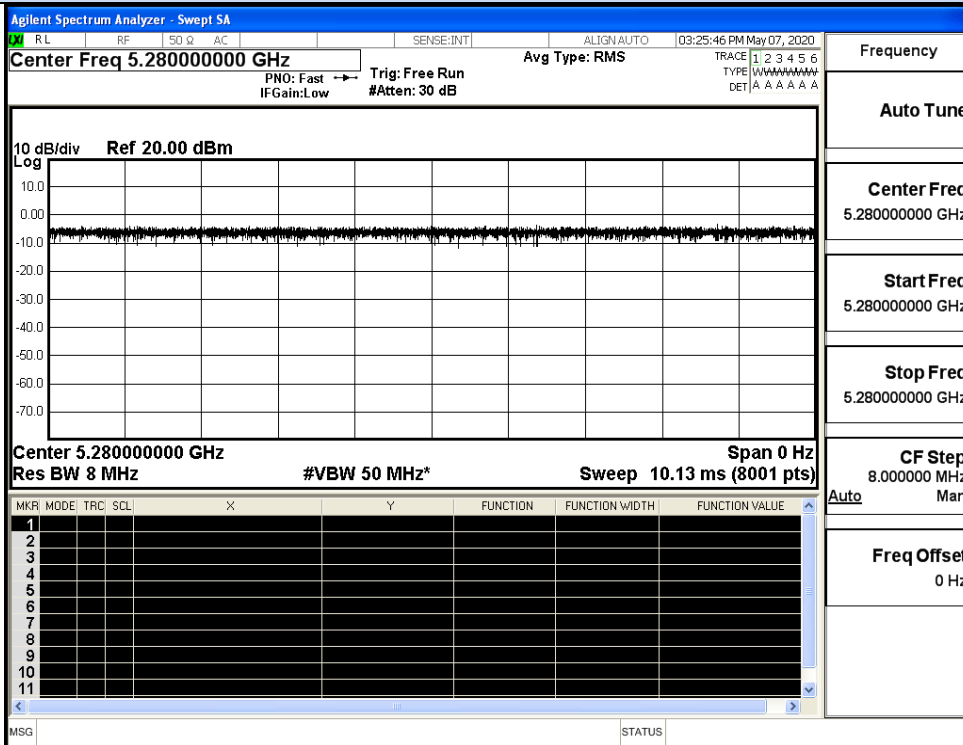
IEEE 802.11a



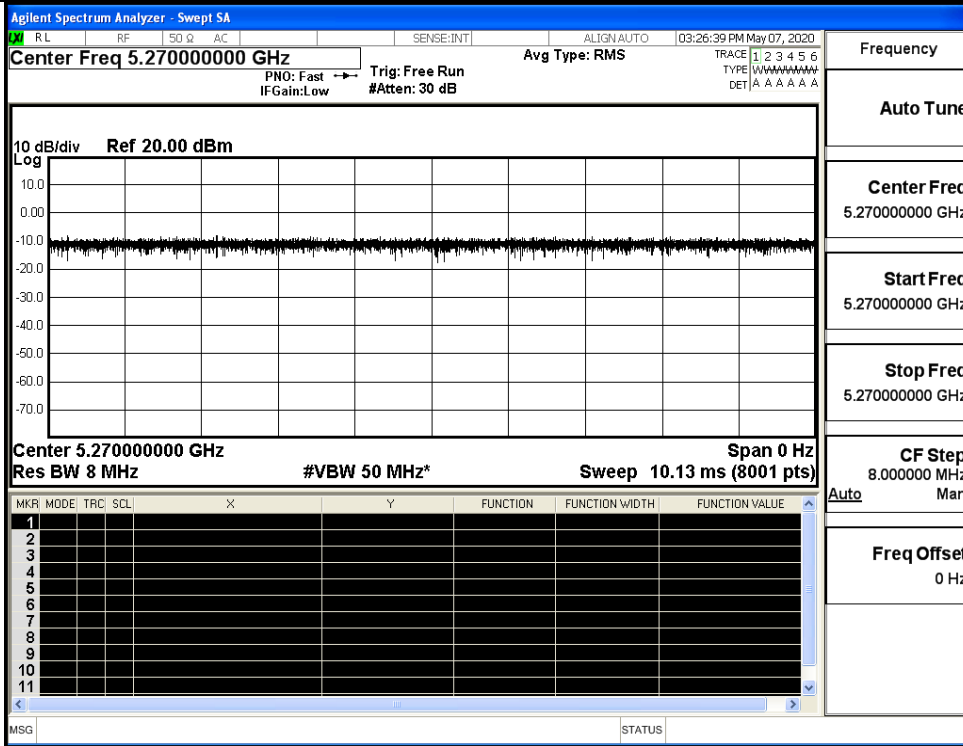
IEEE 802.11n HT20



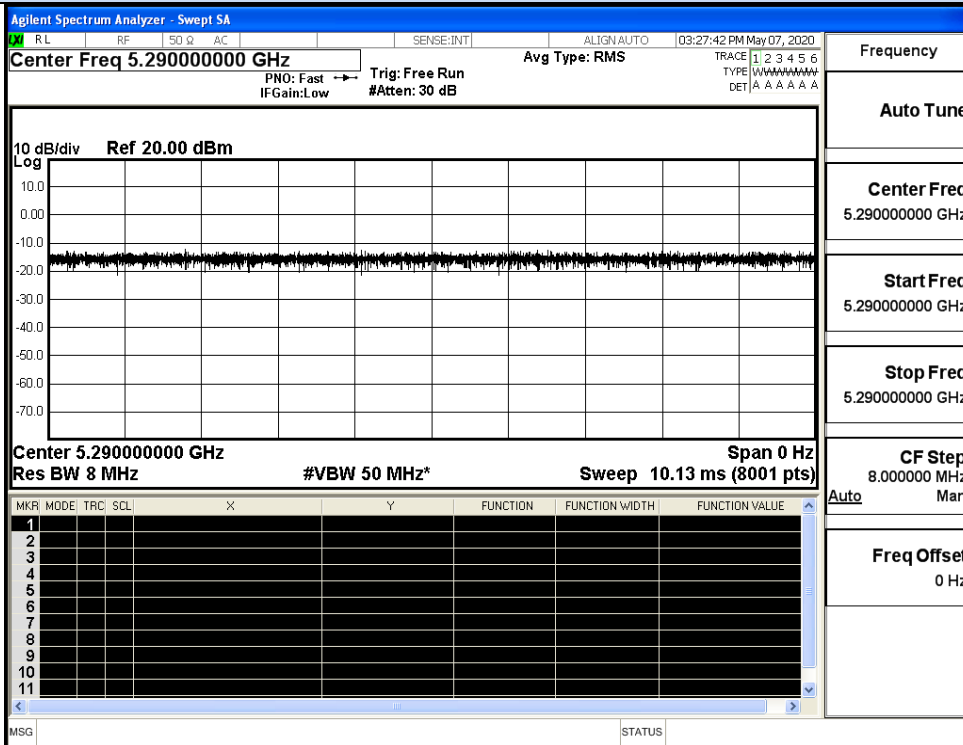
IEEE 802.11n HT40



IEEE 802.11AC20



IEEE 802.11 AC40



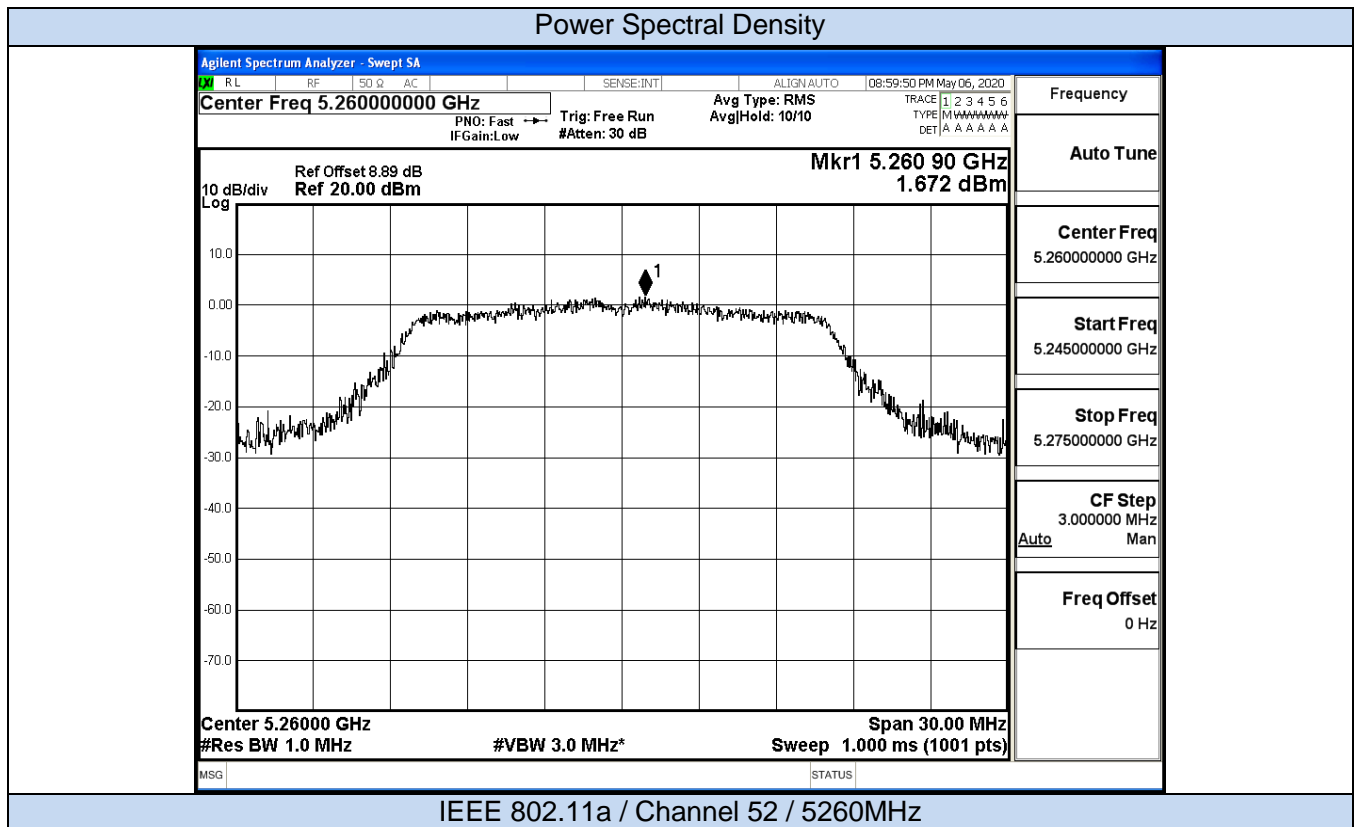
IEEE 802.11AC80

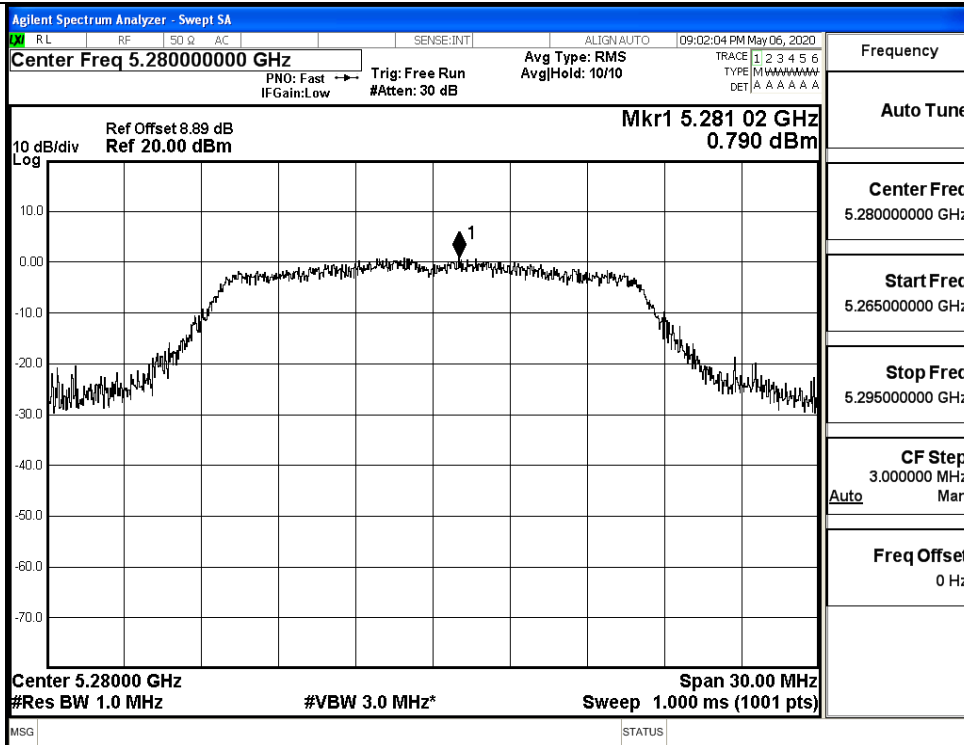
## F.2 Maximum Conduct Output Power

Test Mode	Channel	Frequency (MHz)	AVG Conducted Power (dBm)	Duty Cycle Factor (dB)	Report Conducted Power (dBm)	Limit (dBm)	Verdict
11A	52	5260	11.15	0	11.15	24	Pass
	56	5280	10.69	0	10.69		Pass
	64	5320	9.07	0	9.07		Pass
11N20 SISO	52	5260	10.93	0	10.93	24	Pass
	56	5280	10.27	0	10.27		Pass
	64	5320	8.74	0	8.74		Pass
11N40 SISO	54	5270	10.32	0	10.32	24	Pass
	62	5310	9.12	0	9.12		Pass
11AC20 SISO	52	5260	10.36	0	10.36	24	Pass
	56	5280	10.35	0	10.35		Pass
	64	5320	8.73	0	8.73		Pass
11AC40 SISO	54	5270	10.21	0	10.21	24	Pass
	62	5310	9.04	0	9.04		Pass
11AC80 SISO	58	5290	10.36	0	10.36	24	Pass

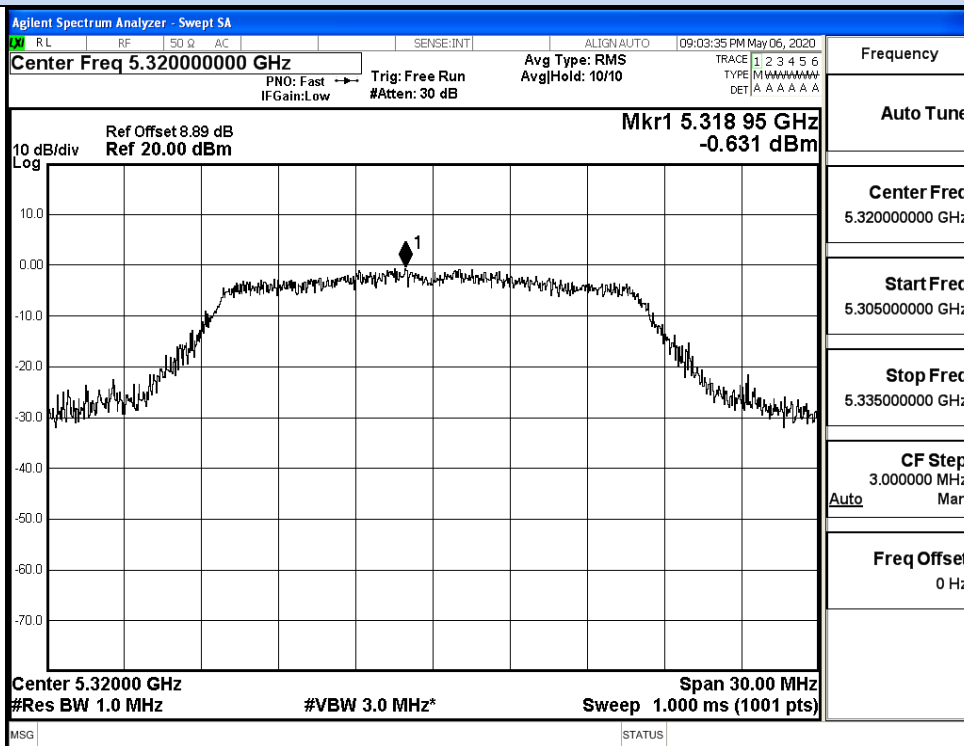
### F.3 Power Spectral Density

Test Mode	Channel	Frequency (MHz)	Power Density (dBm/MHz)	Duty Cycle Factor (dB)	Report Power Density (dBm/MHz)	Limit (dBm/MHz)	Verdict
11A	52	5260	1.67	0	1.67	11	Pass
	56	5280	0.79	0	0.79		Pass
	64	5320	-0.63	0	-0.63		Pass
11N20 SISO	52	5260	0.99	0	0.99	11	Pass
	56	5280	0.54	0	0.54		Pass
	64	5320	-1.18	0	-1.18		Pass
11N40 SISO	54	5270	-2.43	0	-2.43	11	Pass
	62	5310	-3.71	0	-3.71		Pass
11AC20 SISO	52	5260	0.86	0	0.86	11	Pass
	56	5280	0.55	0	0.55		Pass
	64	5320	-1.34	0	-1.34		Pass
11AC40 SISO	54	5270	-2.77	0	-2.77	11	Pass
	62	5310	-3.04	0	-3.04		Pass
11AC80 SISO	58	5290	-5.15	0	-5.15	11	Pass



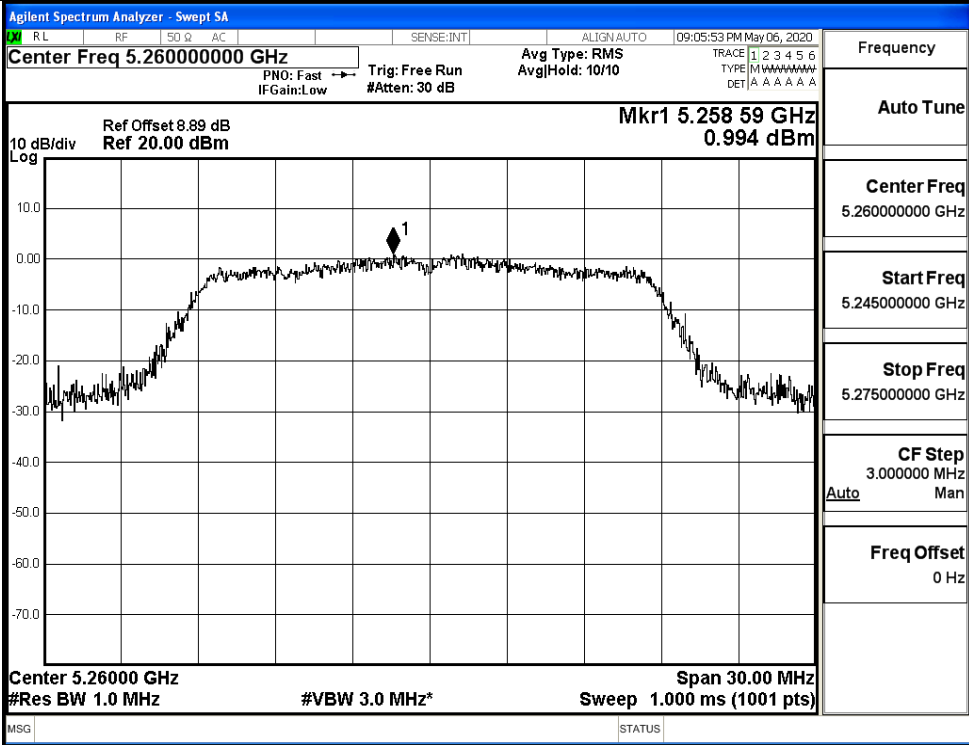


IEEE 802.11na / Channel 56 / 5280MHz

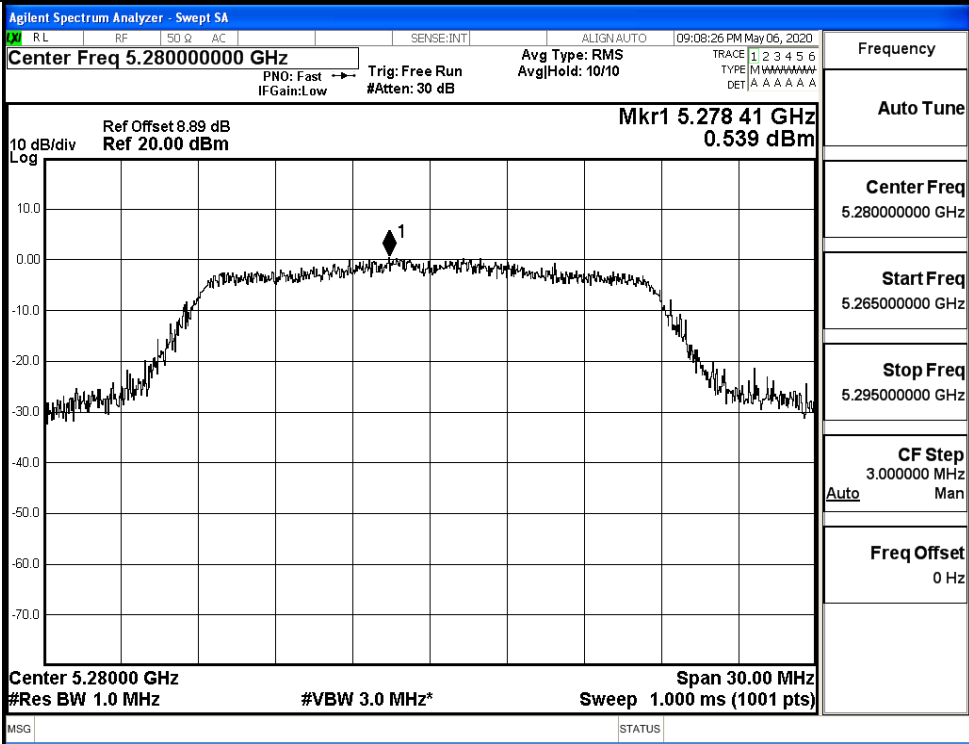


IEEE 802.11na / Channel 64 / 5320MHz

### Power Spectral Density

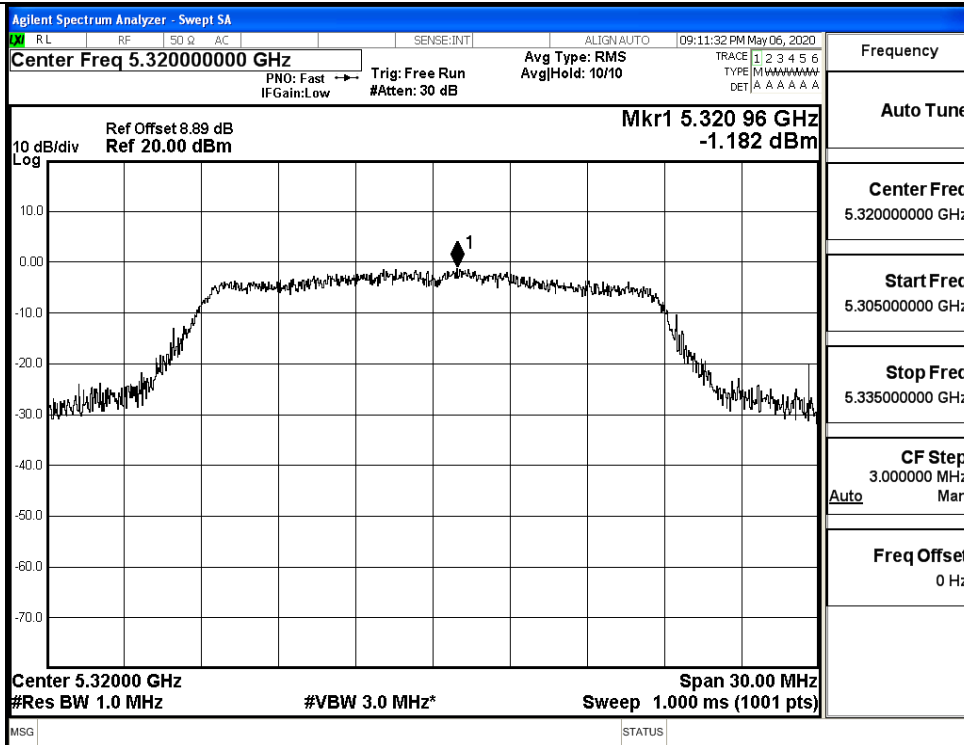


### IEEE 802.11n20 / Channel 52 / 5260MHz



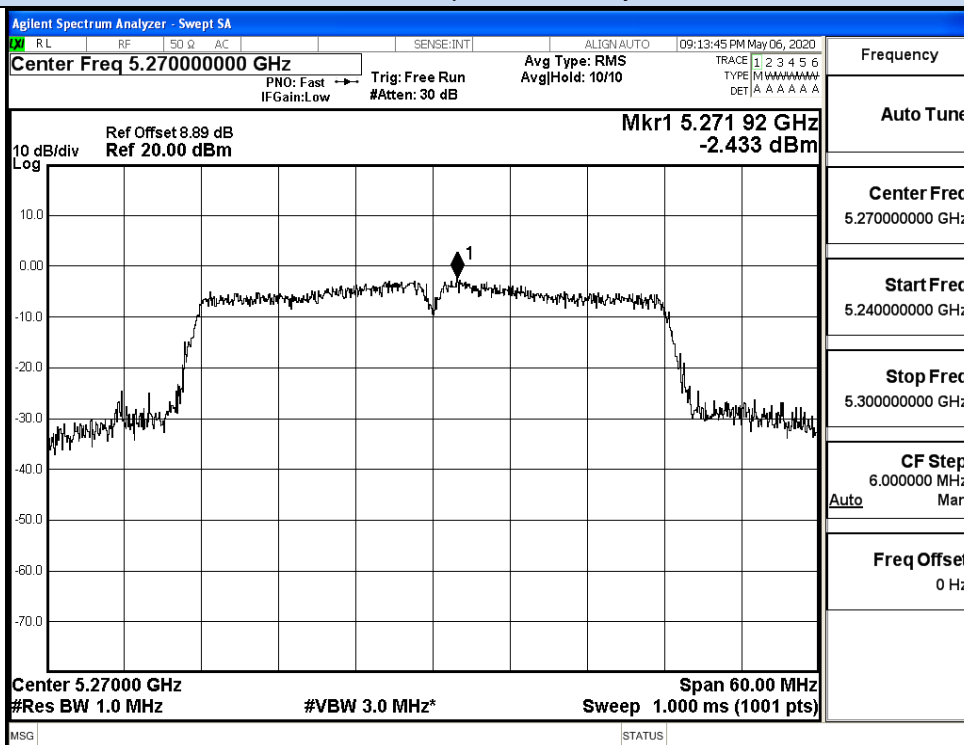
### IEEE 802.11n20 / Channel 56 / 5280MHz



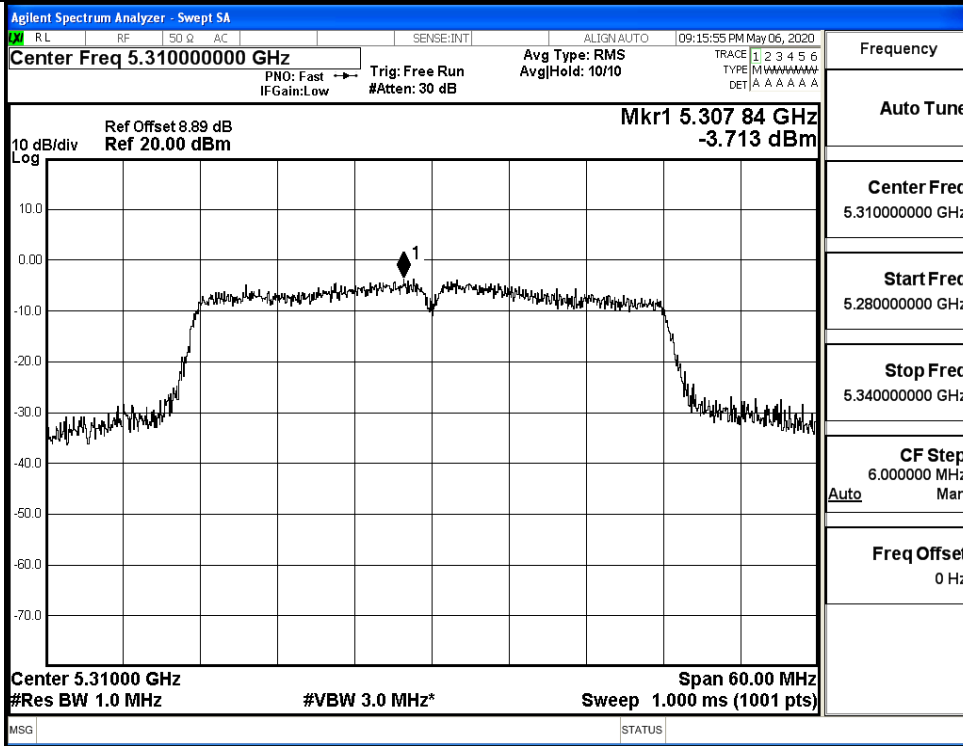


IEEE 802.11n20 / Channel 64 / 5320MHz

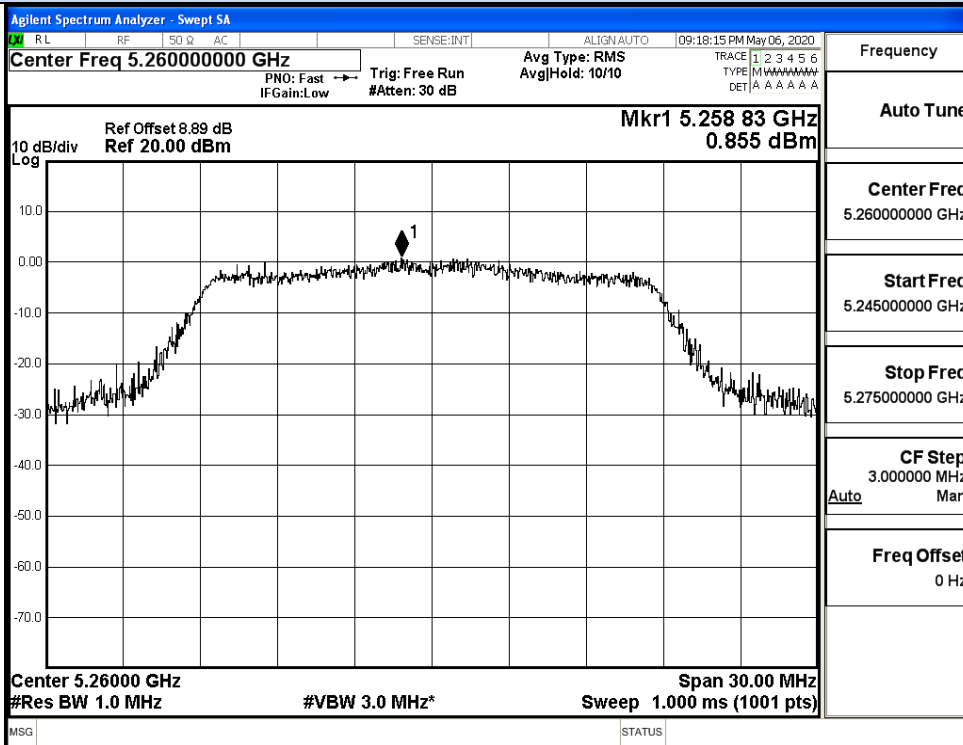
Power Spectral Density



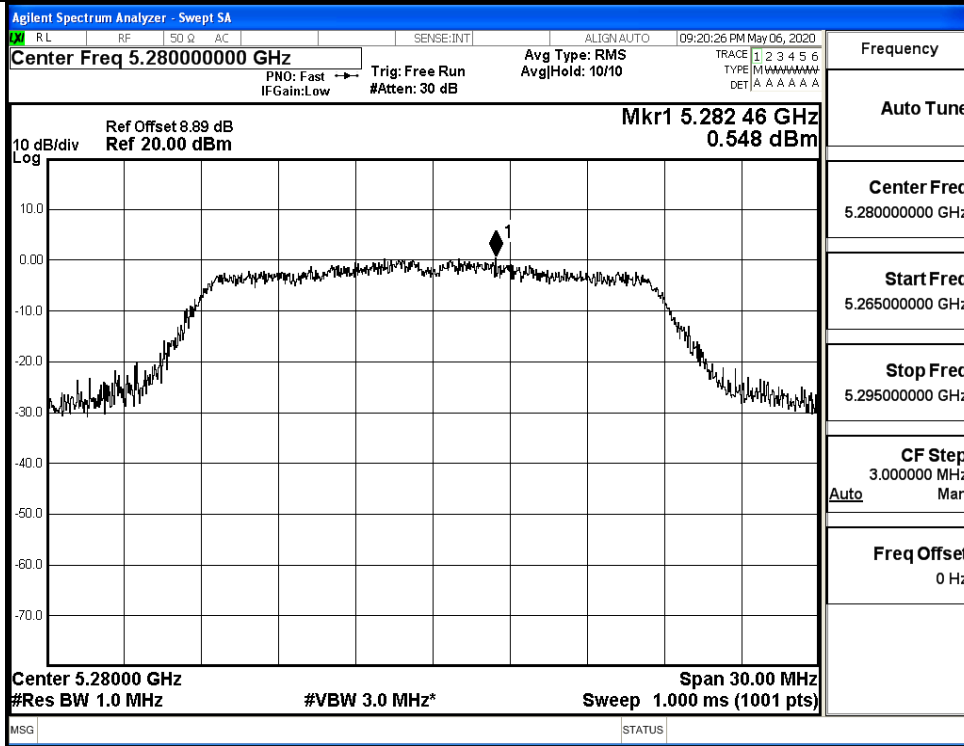
IEEE 802.11n40 / Channel 54 / 5270MHz



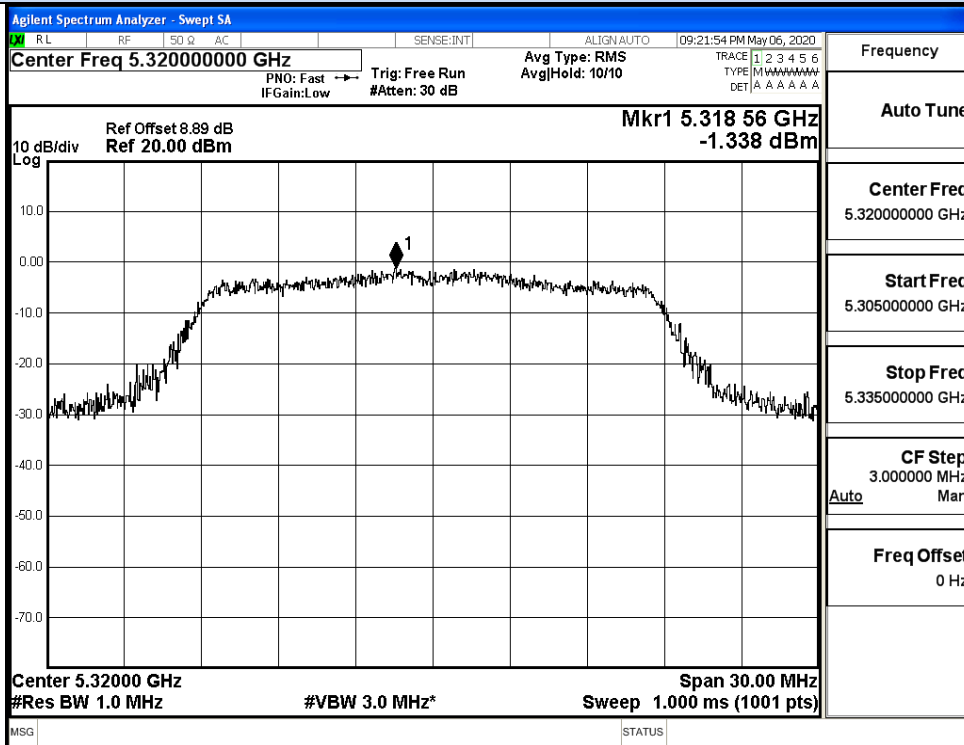
IEEE 802.11n40 / Channel 62 / 5310MHz



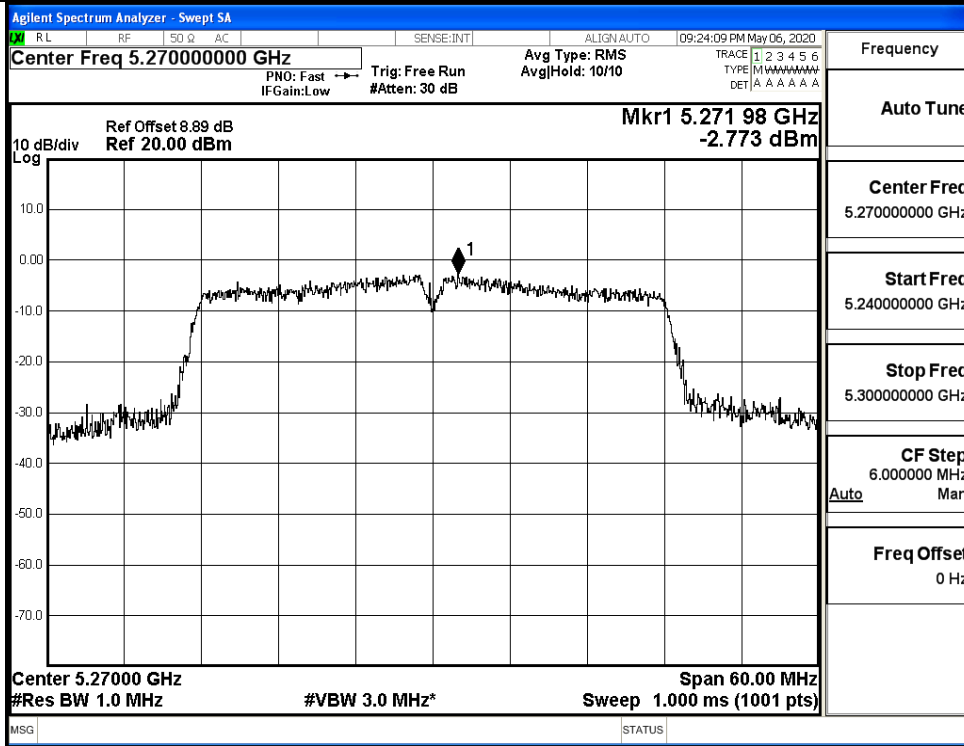
IEEE 802.11ac20 / Channel 52 / 5260MHz



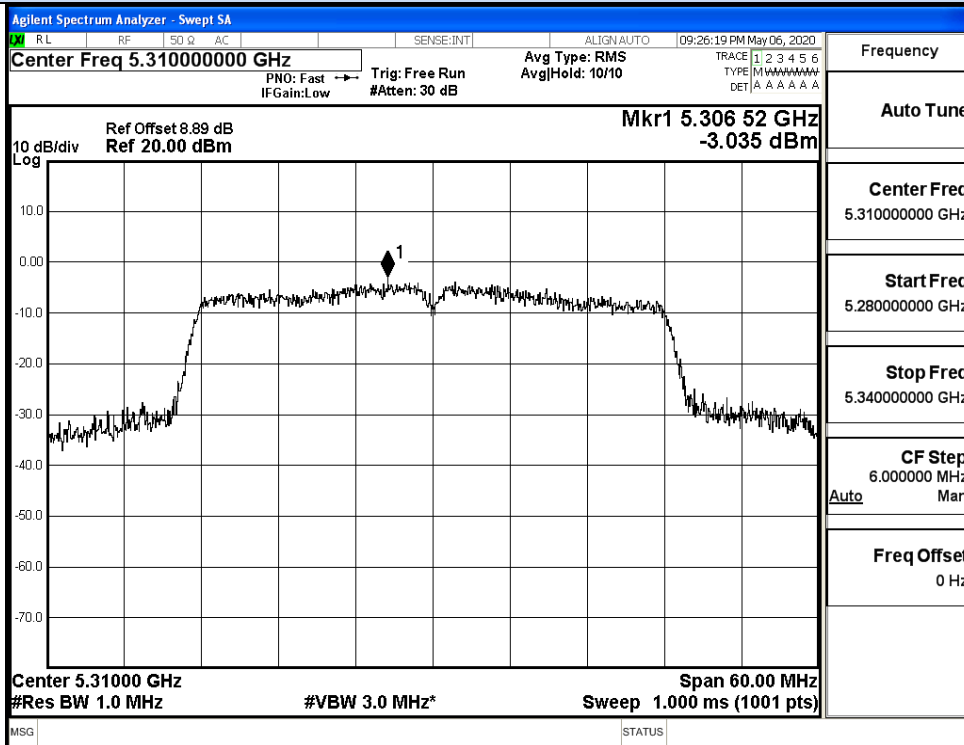
IEEE 802.11ac20 / Channel 56 / 5280MHz



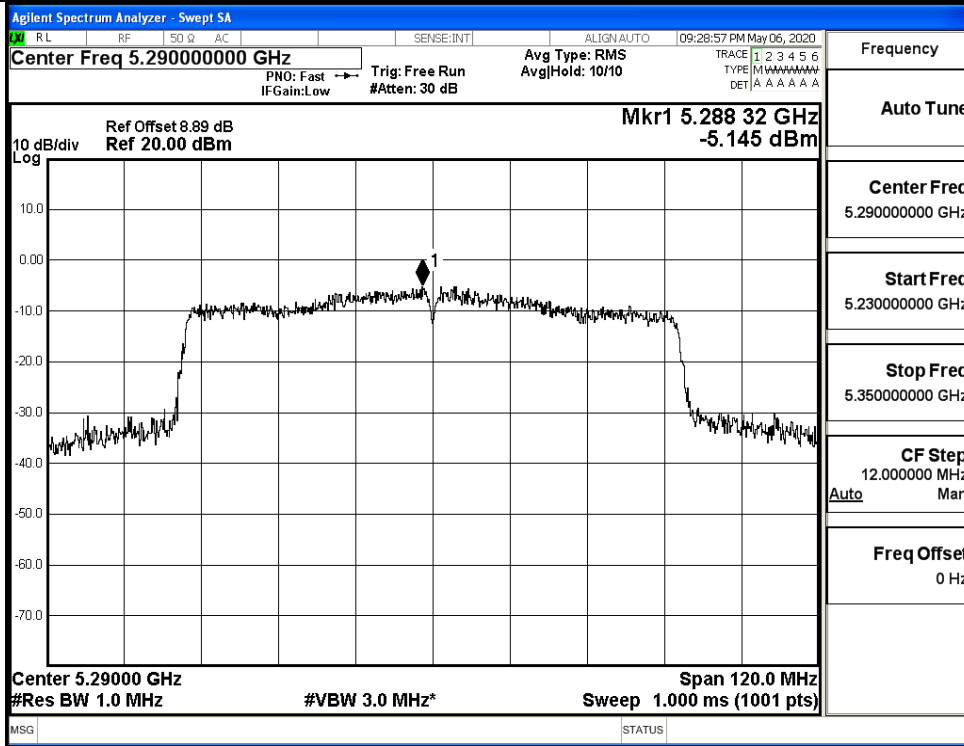
IEEE 802.11ac20 / Channel 64 / 5320MHz



IEEE 802.11ac40 / Channel 54 / 5270MHz



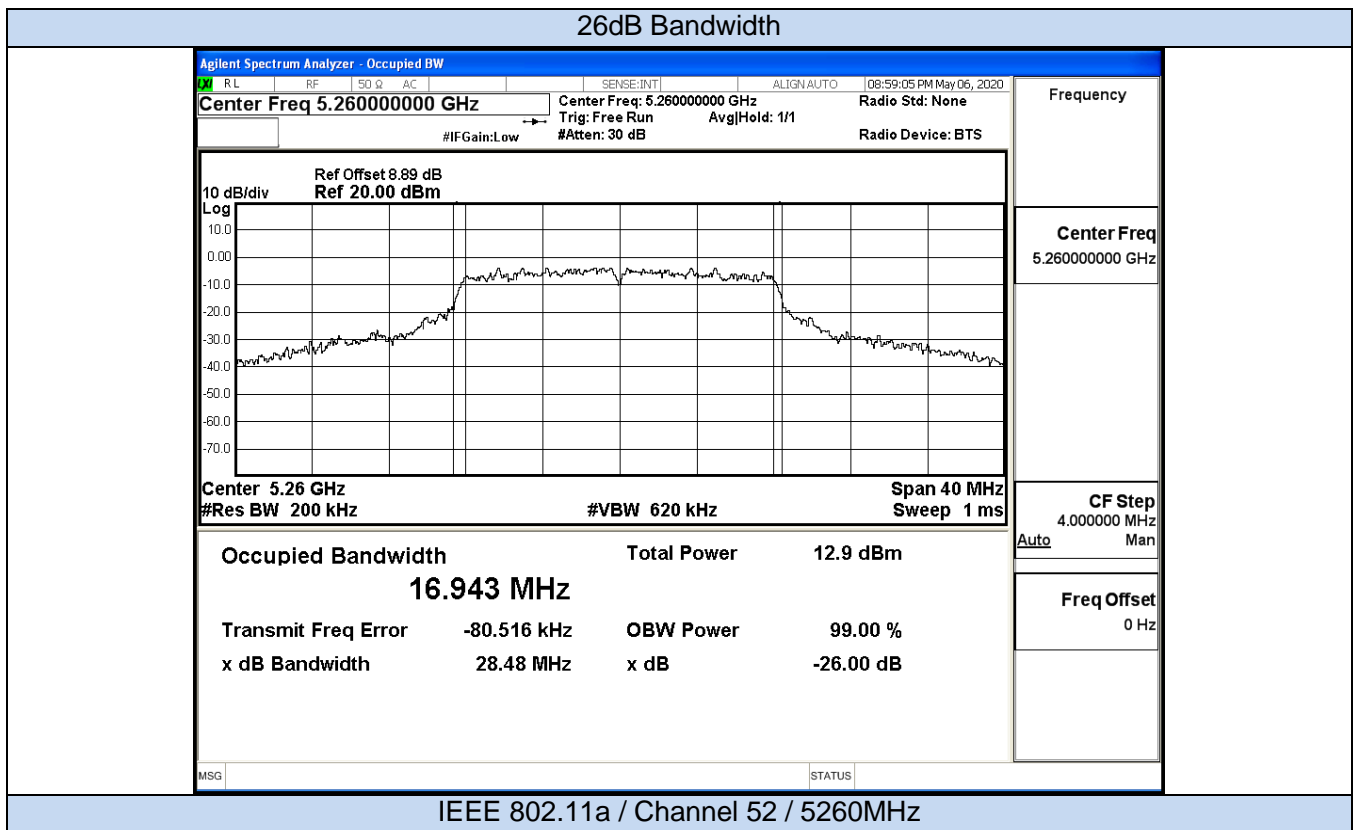
IEEE 802.11ac40 / Channel 62 / 5310MHz

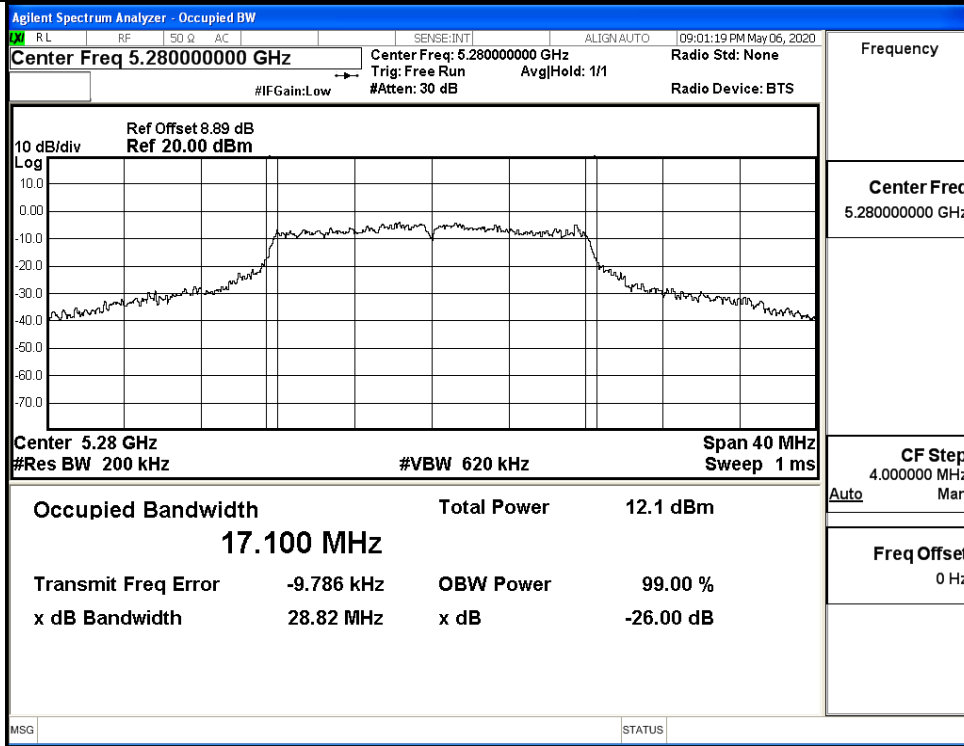


IEEE 802.11ac80 / Channel 58 / 5290MHz

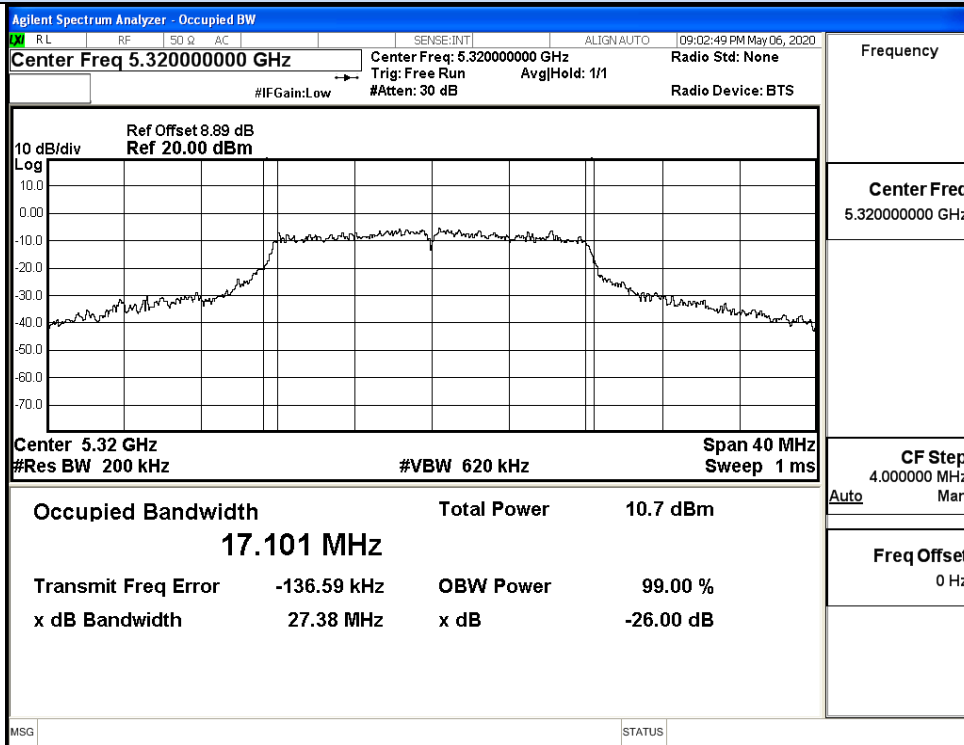
### F.4 Emission Bandwidth

Test Mode	Channel	Frequency (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
11A	52	5260	28.48	No Limit	Pass
	56	5280	28.82		Pass
	64	5320	27.38		Pass
11N20 SISO	52	5260	27.64	No Limit	Pass
	56	5280	25.46		Pass
	64	5320	30.18		Pass
11N40 SISO	54	5270	53.34	No Limit	Pass
	62	5310	59.24		Pass
11AC20 SISO	52	5260	26.65	No Limi	Pass
	56	5280	27.05		Pass
	64	5320	30.19		Pass
11AC40 SISO	54	5270	47.63	No Limi	Pass
	62	5310	48.37		Pass
11AC80 SISO	58	5290	111.3	No Limi	Pass



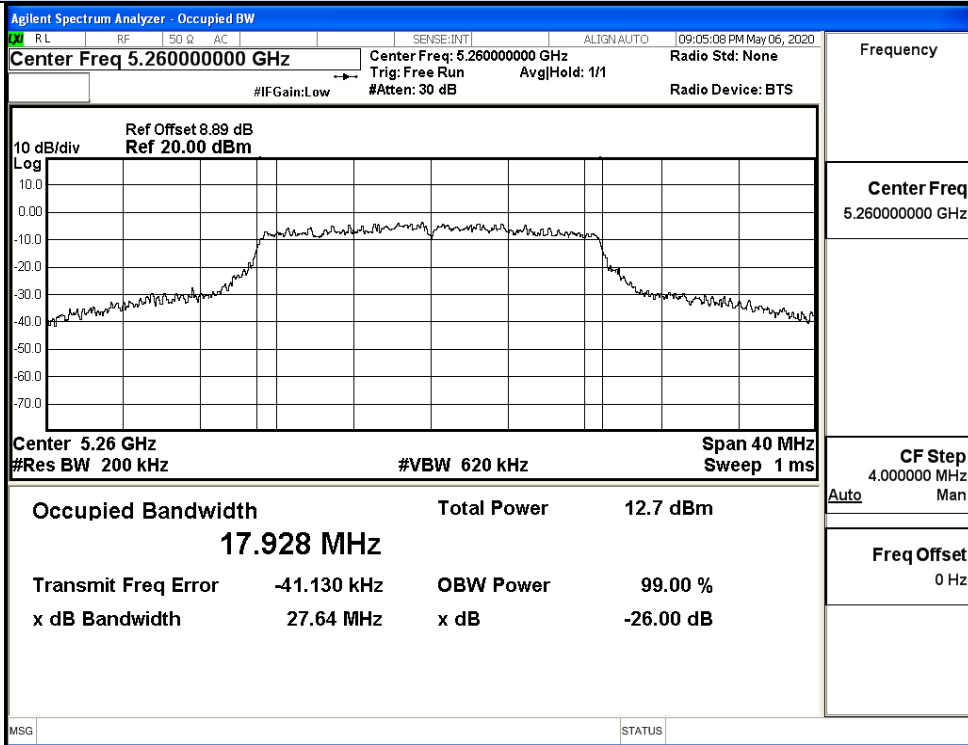


IEEE 802.11a / Channel 56 / 5280MHz

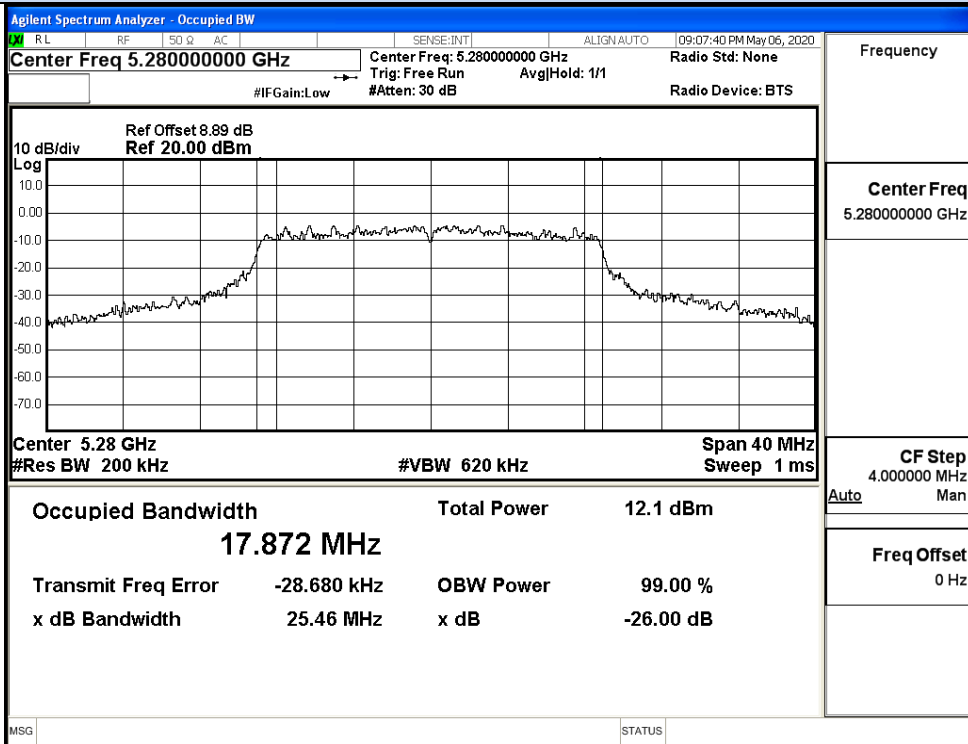


IEEE 802.11a / Channel 64 / 5320MHz

26dB Bandwidth

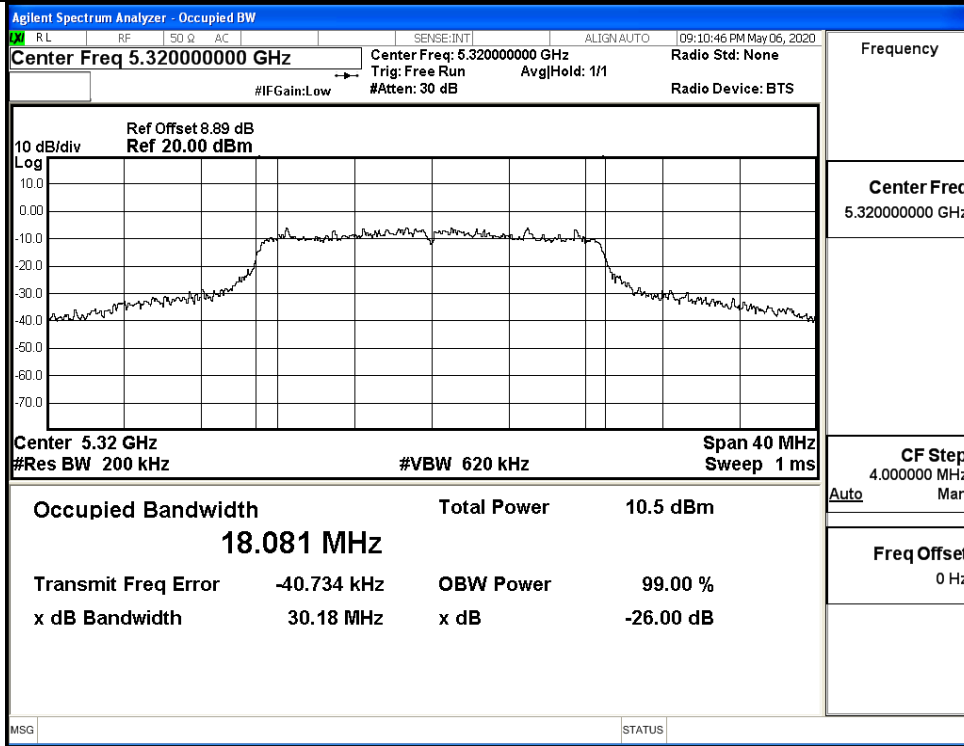


IEEE 802.11n20 / Channel 52 / 5260MHz



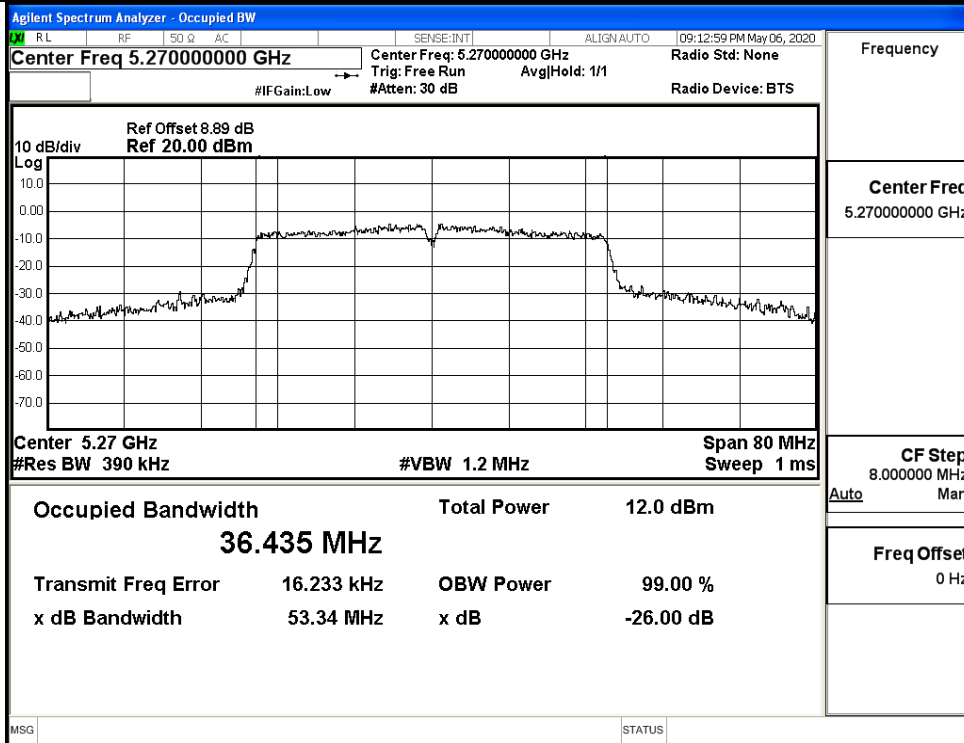
IEEE 802.11n20 / Channel 56 / 5280MHz



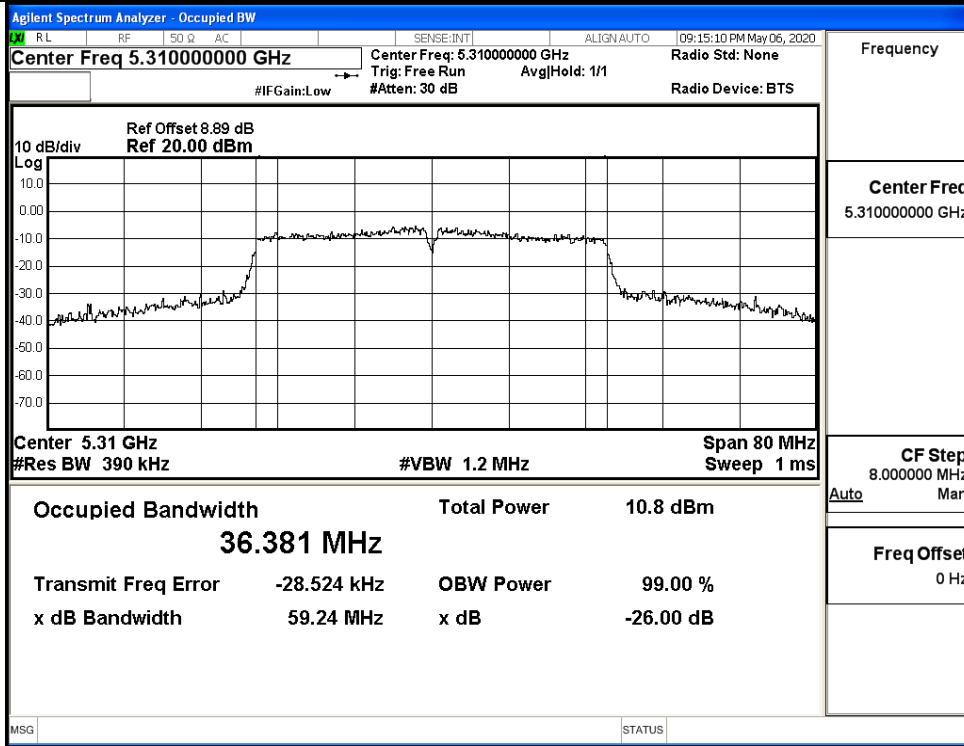


IEEE 802.11n20 / Channel 64 / 5320MHz

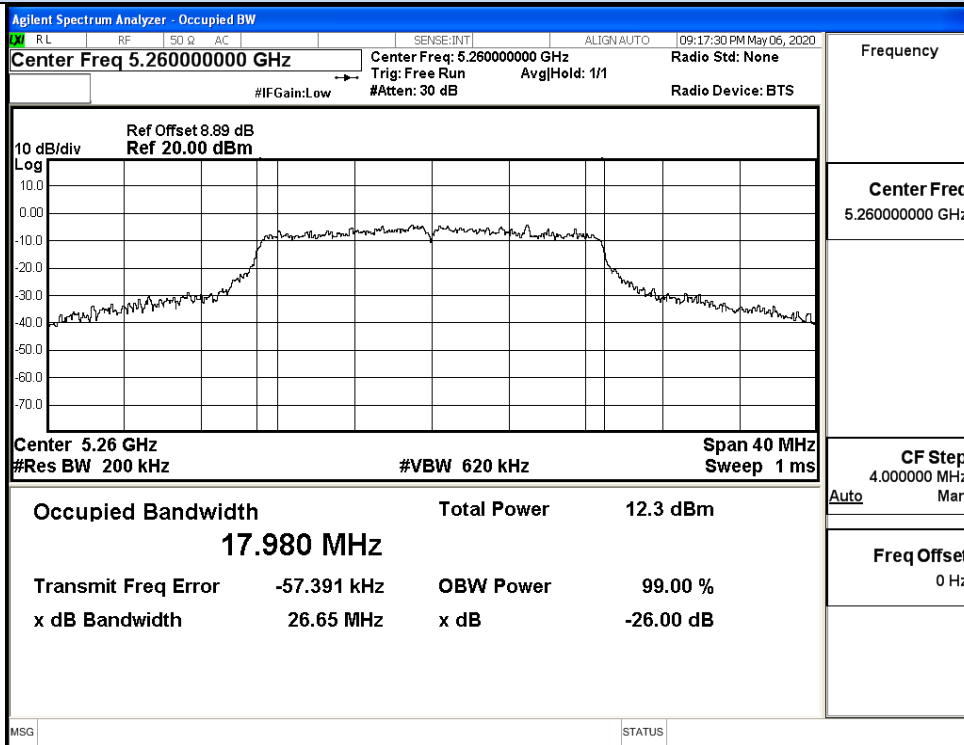
26dB Bandwidth



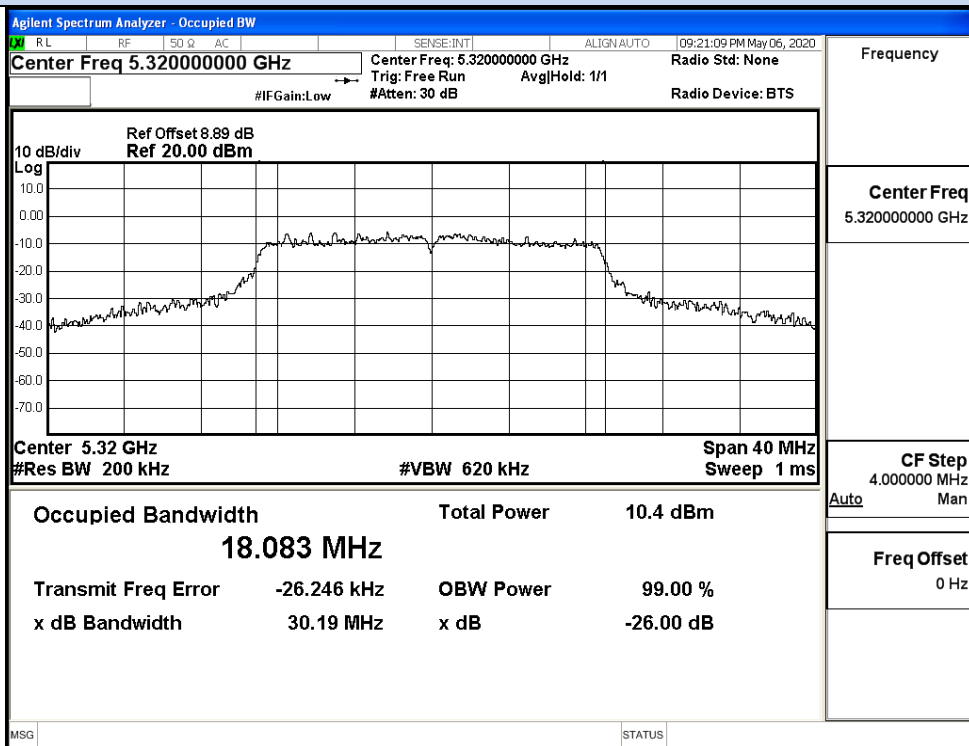
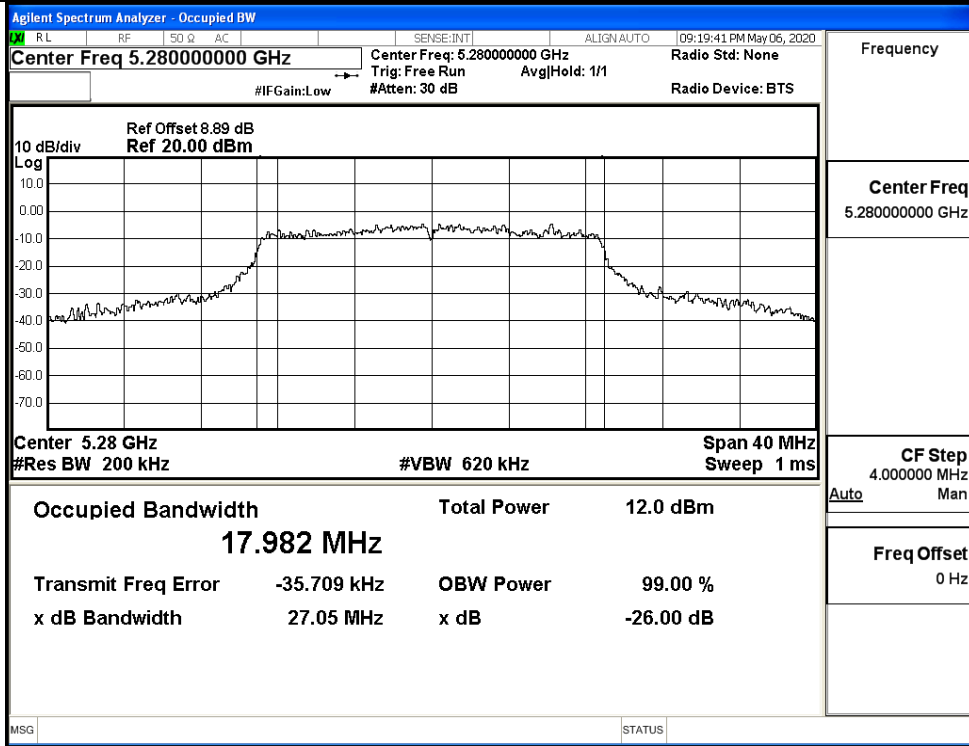
IEEE 802.11n40 / Channel 54 / 5270MHz

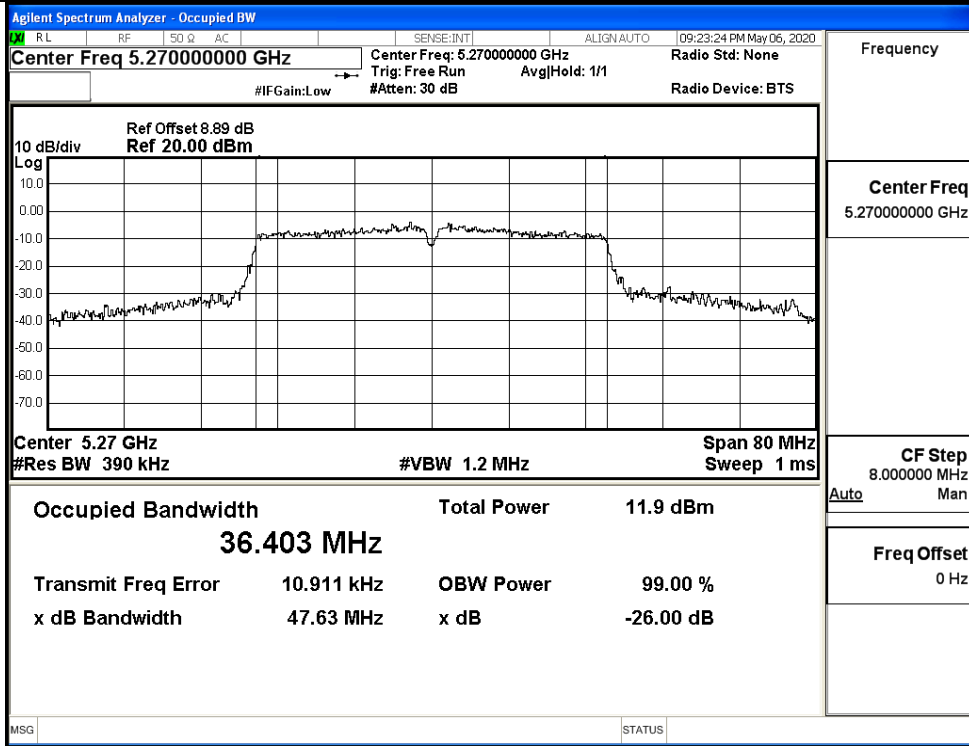


IEEE 802.11n40 / Channel 62 / 5310MHz

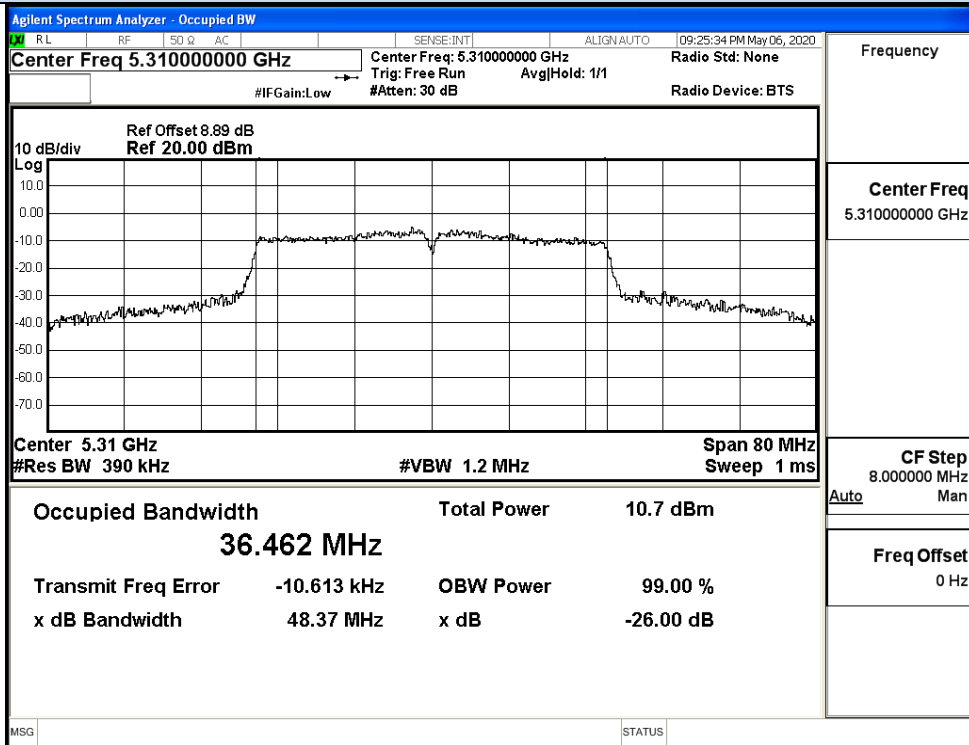


IEEE 802.11ac20 / Channel 52 / 5260MHz

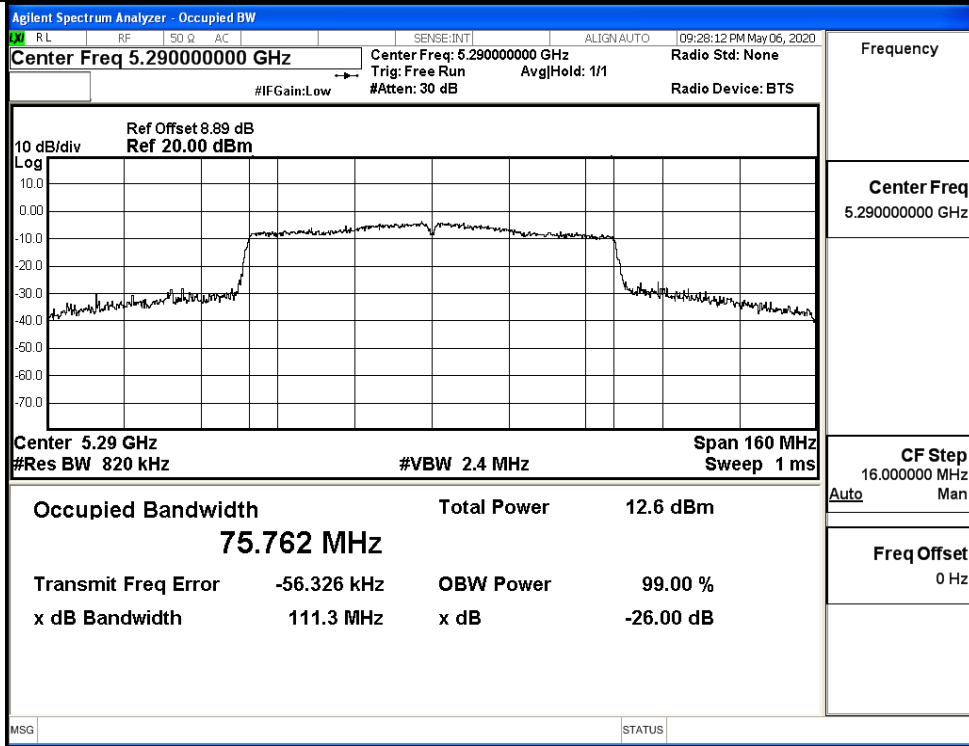




IEEE 802.11ac40 / Channel 54 / 5270MHz



IEEE 802.11ac40 / Channel 62 / 5310MHz

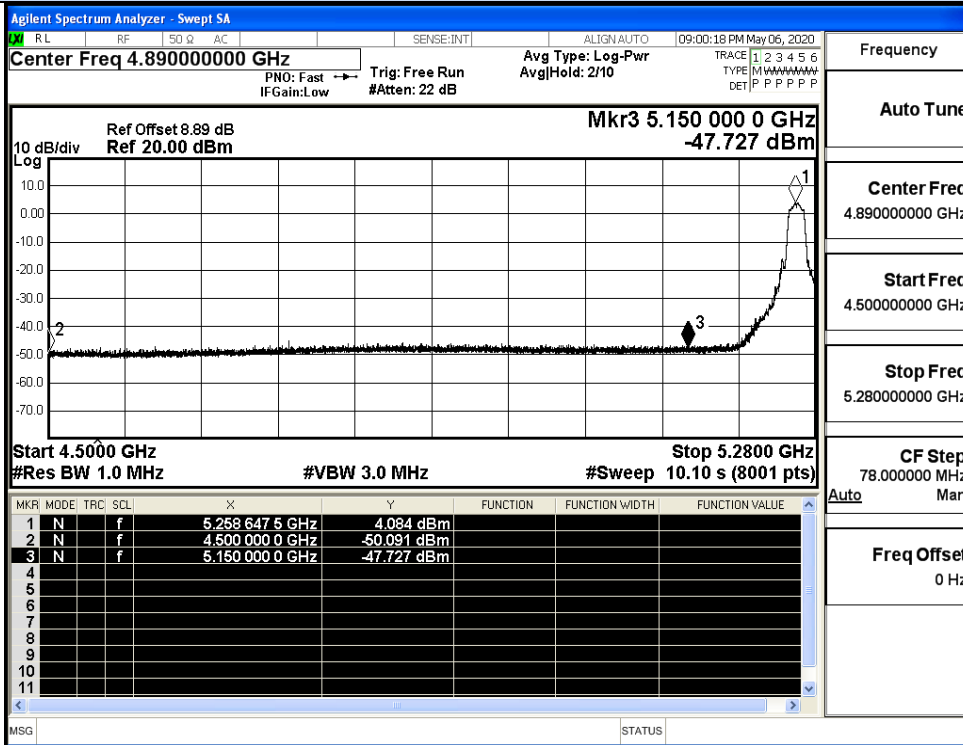


IEEE 802.11ac80 / Channel 58 / 5290MHz

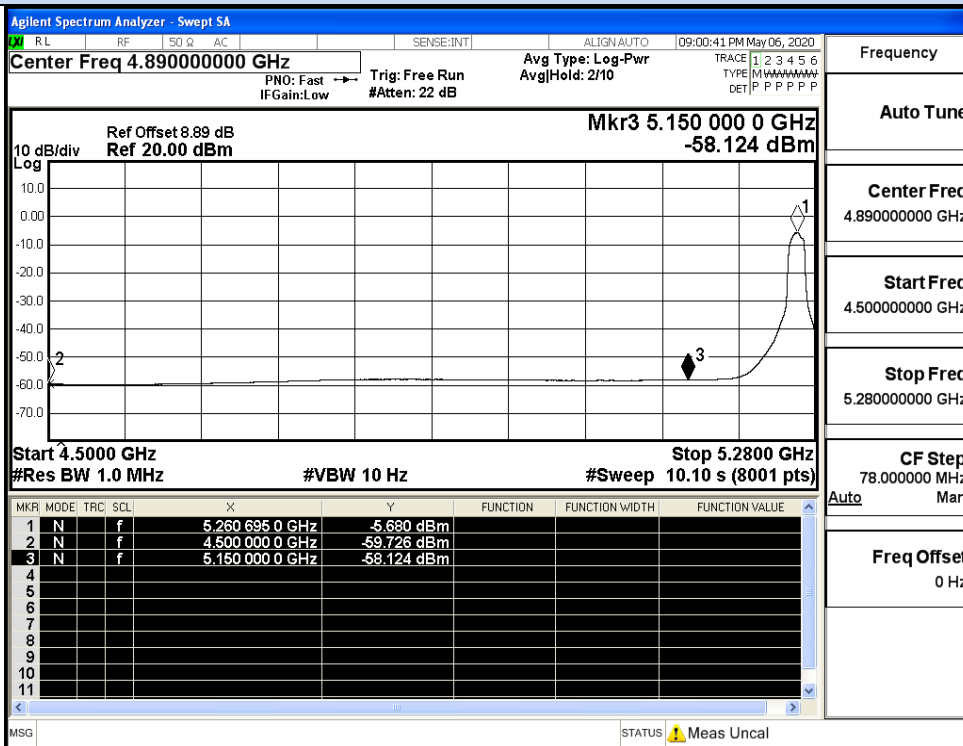
**F.5 Undesirable Emissions Measurement**

Test Mode	Channel	Frequency (MHz)	Conducted Power (dBm)	Antenna Gain (dBi)	Ground Reflection Factor (dB)	Covert Radiated E Level At 3m (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
11A	52	4500.0	-50.09	4.5	0	49.67	Peak	68.20	Pass
		4500.0	-59.73	4.5	0	40.03	Average	54.00	Pass
		5150.0	-47.73	4.5	0	52.03	Peak	68.20	Pass
		5150.0	-58.12	4.5	0	41.64	Average	54.00	Pass
	64	5350.0	-39.68	4.5	0	60.08	Peak	68.20	Pass
		5350.0	-51.70	4.5	0	48.06	Average	54.00	Pass
		5460.0	-49.36	4.5	0	50.4	Peak	68.20	Pass
		5460.0	-60.59	4.5	0	39.17	Average	54.00	Pass
11N2 0 SISO	52	4500.0	-50.46	4.5	0	49.3	Peak	68.20	Pass
		4500.0	-59.74	4.5	0	40.02	Average	54.00	Pass
		5150.0	-49.14	4.5	0	50.62	Peak	68.20	Pass
		5150.0	-58.13	4.5	0	41.63	Average	54.00	Pass
	64	5350.0	-37.94	4.5	0	61.82	Peak	68.20	Pass
		5350.0	-51.49	4.5	0	48.27	Average	54.00	Pass
		5460.0	-48.27	4.5	0	51.49	Peak	68.20	Pass
		5460.0	-60.61	4.5	0	39.15	Average	54.00	Pass
11N4 0 SISO	54	4500.0	-50.19	4.5	0	49.57	Peak	68.20	Pass
		4500.0	-59.73	4.5	0	40.03	Average	54.00	Pass
		5150.0	-47.04	4.5	0	52.72	Peak	68.20	Pass
		5150.0	-57.80	4.5	0	41.96	Average	54.00	Pass
	62	5350.0	-32.56	4.5	0	67.2	Peak	68.20	Pass
		5350.0	-47.89	4.5	0	51.87	Average	54.00	Pass
		5460.0	-48.28	4.5	0	51.48	Peak	68.20	Pass
		5460.0	-60.36	4.5	0	39.4	Average	54.00	Pass
11A C20 SIS O	52	4500.0	-49.89	4.5	0	49.87	Peak	68.20	Pass
		4500.0	-59.75	4.5	0	40.01	Average	54.00	Pass
		5150.0	-47.35	4.5	0	52.41	Peak	68.20	Pass
		5150.0	-58.17	4.5	0	41.59	Average	54.00	Pass
	64	4500.0	-49.89	4.5	0	49.87	Peak	68.20	Pass
		4500.0	-59.75	4.5	0	40.01	Average	54.00	Pass
		5150.0	-47.35	4.5	0	52.41	Peak	68.20	Pass
		5150.0	-58.17	4.5	0	41.59	Average	54.00	Pass
11A C40 SIS O	54	4500.0	-49.54	4.5	0	50.22	Peak	68.20	Pass
		4500.0	-59.72	4.5	0	40.04	Average	54.00	Pass
		5150.0	-48.55	4.5	0	51.21	Peak	68.20	Pass
		5150.0	-57.82	4.5	0	41.94	Average	54.00	Pass
	62	5350.0	-31.99	4.5	0	67.77	Peak	68.20	Pass
		5350.0	-47.92	4.5	0	51.84	Average	54.00	Pass
		5460.0	-49.06	4.5	0	50.7	Peak	68.20	Pass
		5460.0	-60.38	4.5	0	39.38	Average	54.00	Pass
11A C80 SIS O	58	4500.0	-50.05	4.5	0	49.71	Peak	68.20	Pass
		4500.0	-59.73	4.5	0	40.03	Average	54.00	Pass
		5150.0	-45.46	4.5	0	54.3	Peak	68.20	Pass
		5150.0	-56.18	4.5	0	43.58	Average	54.00	Pass
		5350.0	-33.24	4.5	0	66.52	Peak	68.20	Pass
		5350.0	-46.61	4.5	0	53.15	Average	54.00	Pass
		5460.0	-49.68	4.5	0	50.08	Peak	68.20	Pass
		5460.0	-59.71	4.5	0	40.05	Average	54.00	Pass

Undesirable Emissions Measurement

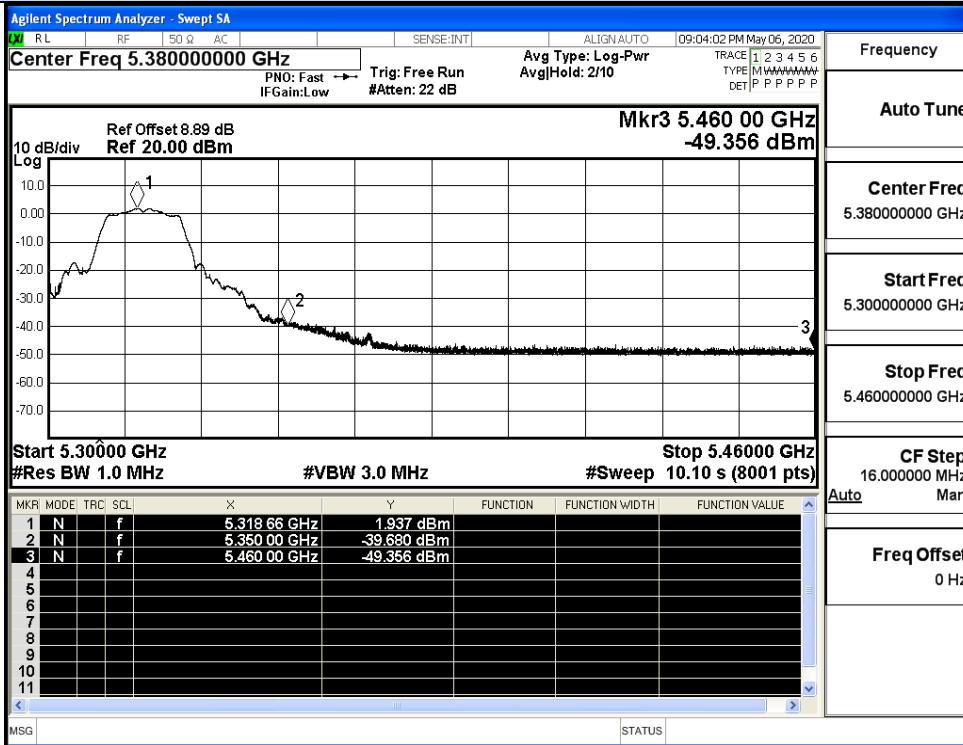


IEEE 802.11a / Channel 36 / 5260MHz / Peak

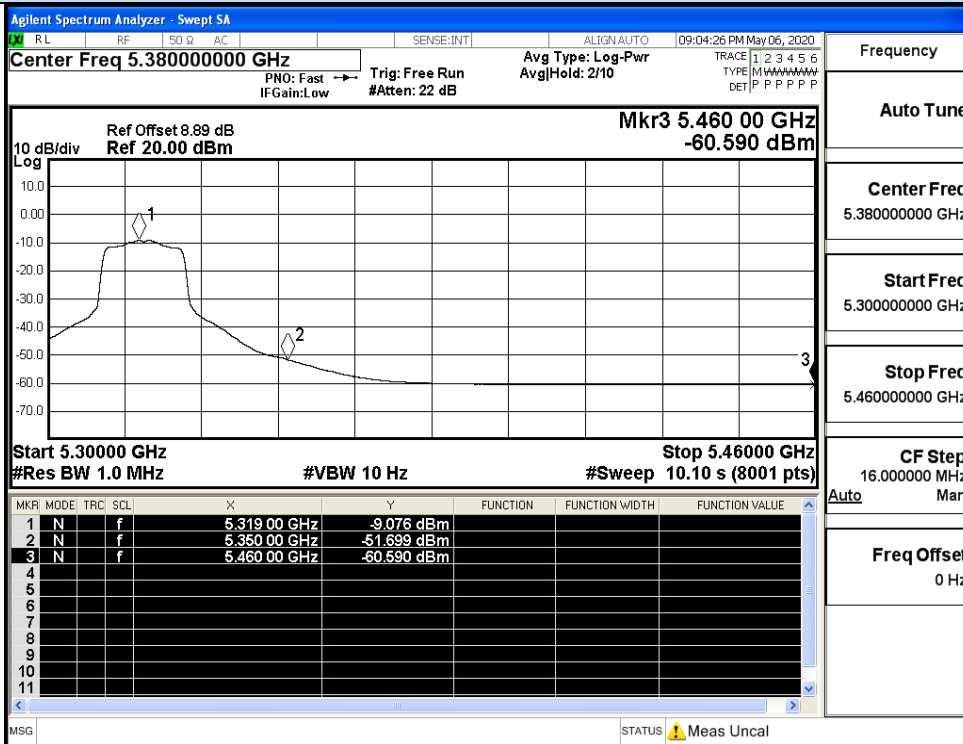


IEEE 802.11a / Channel 36 / 5260MHz / Average

Undesirable Emissions Measurement



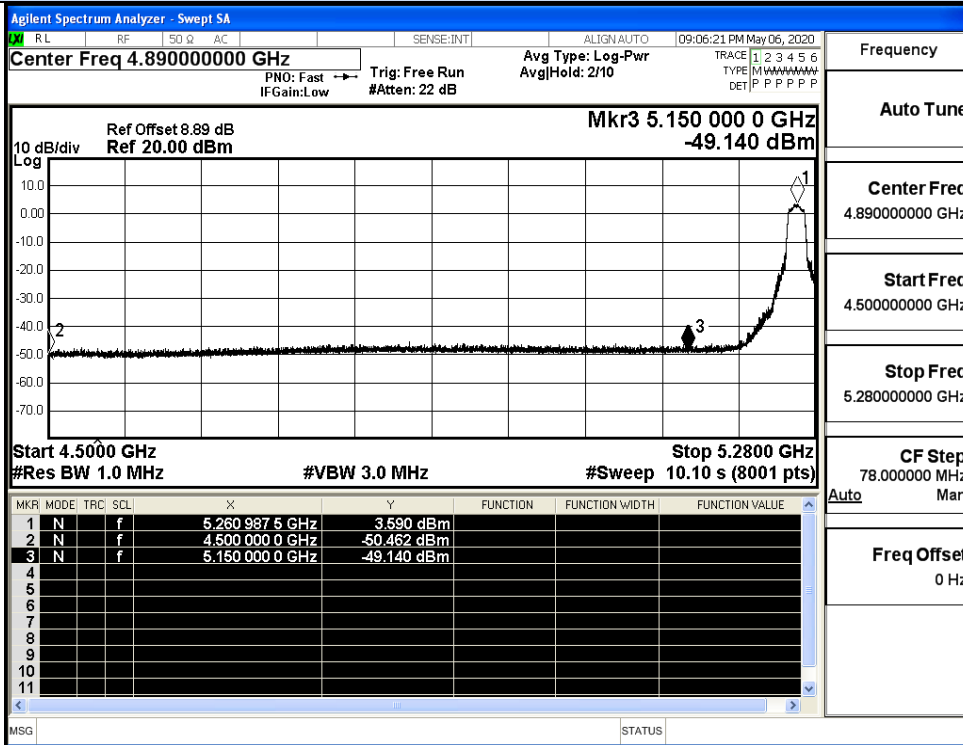
IEEE 802.11a / Channel 48 / 5320MHz / Peak



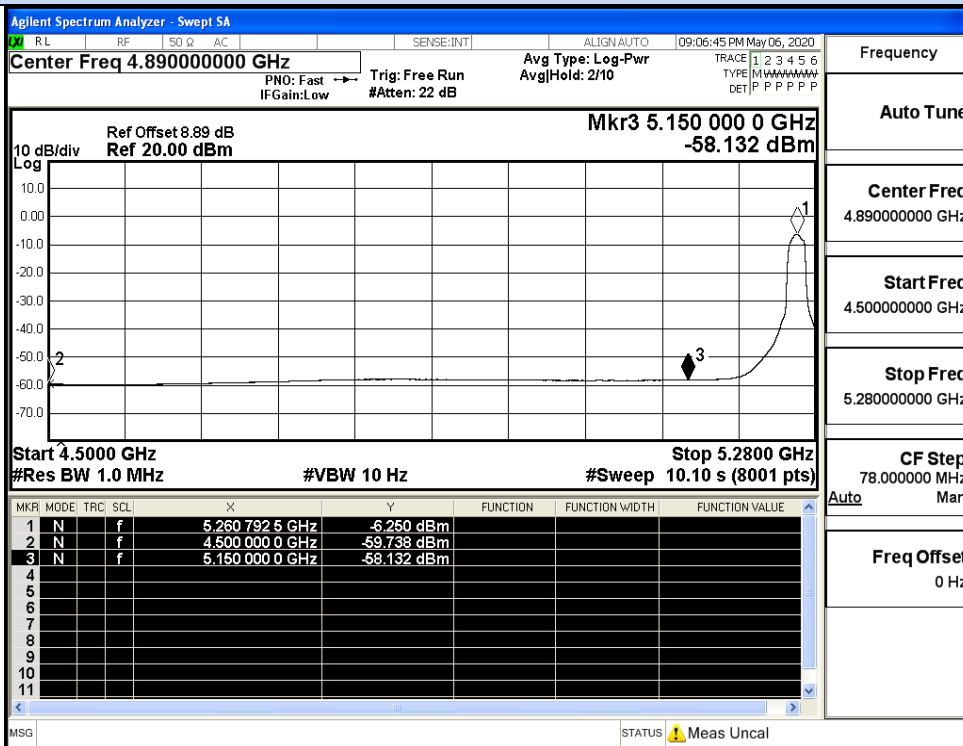
IEEE 802.11a / Channel 48 / 5320MHz / Average



Undesirable Emissions Measurement

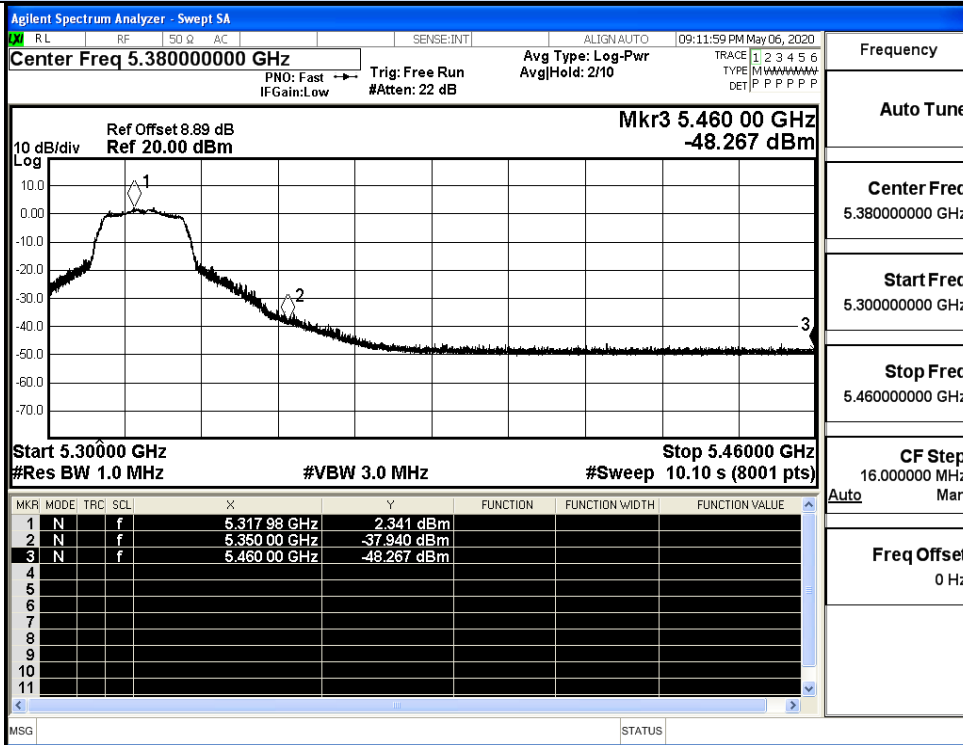


IEEE 802.11n20 / Channel 36 / 5260MHz / Peak

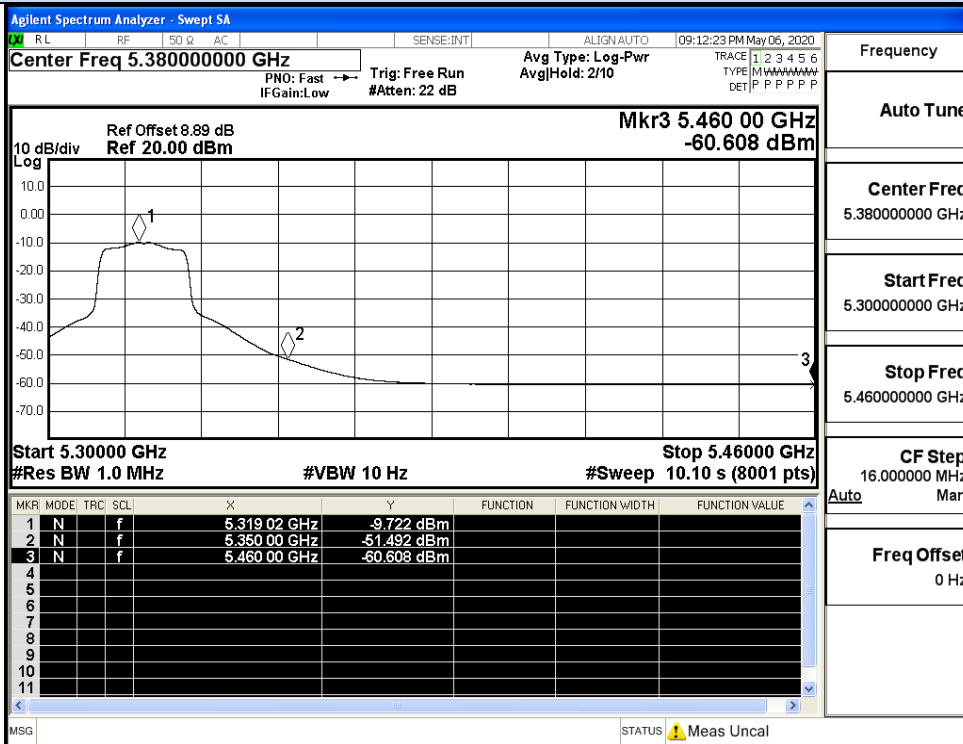


IEEE 802.11n20 / Channel 36 / 5260MHz / Average

Undesirable Emissions Measurement

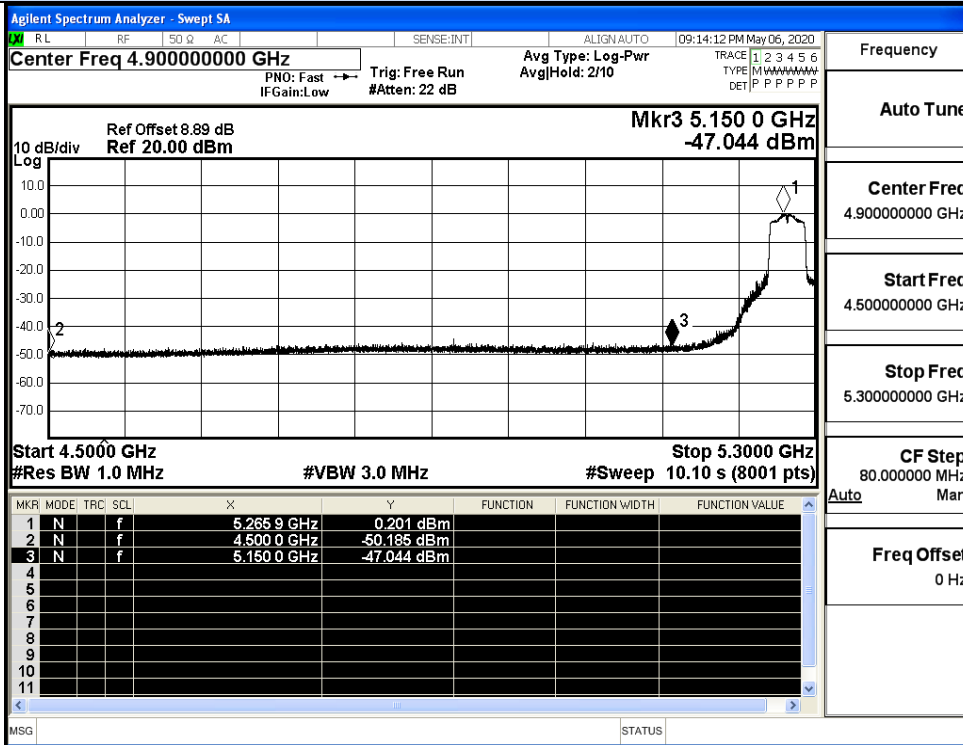


IEEE 802.11n20 / Channel 48 / 5320MHz / Peak

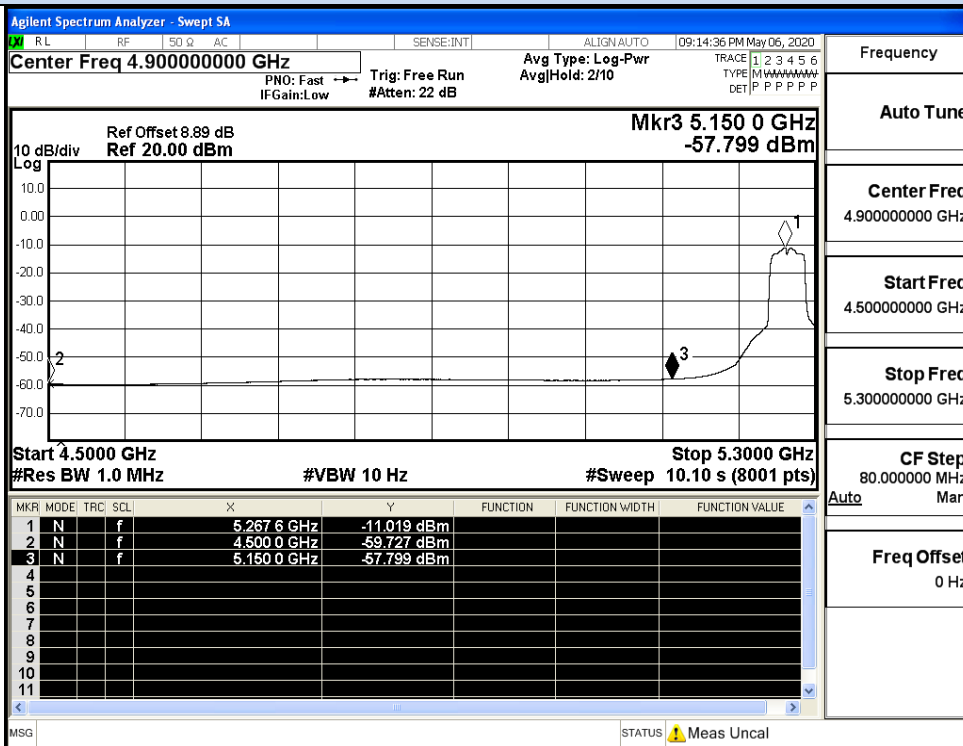


IEEE 802.11n20 / Channel 48 / 5320MHz / Average

Undesirable Emissions Measurement

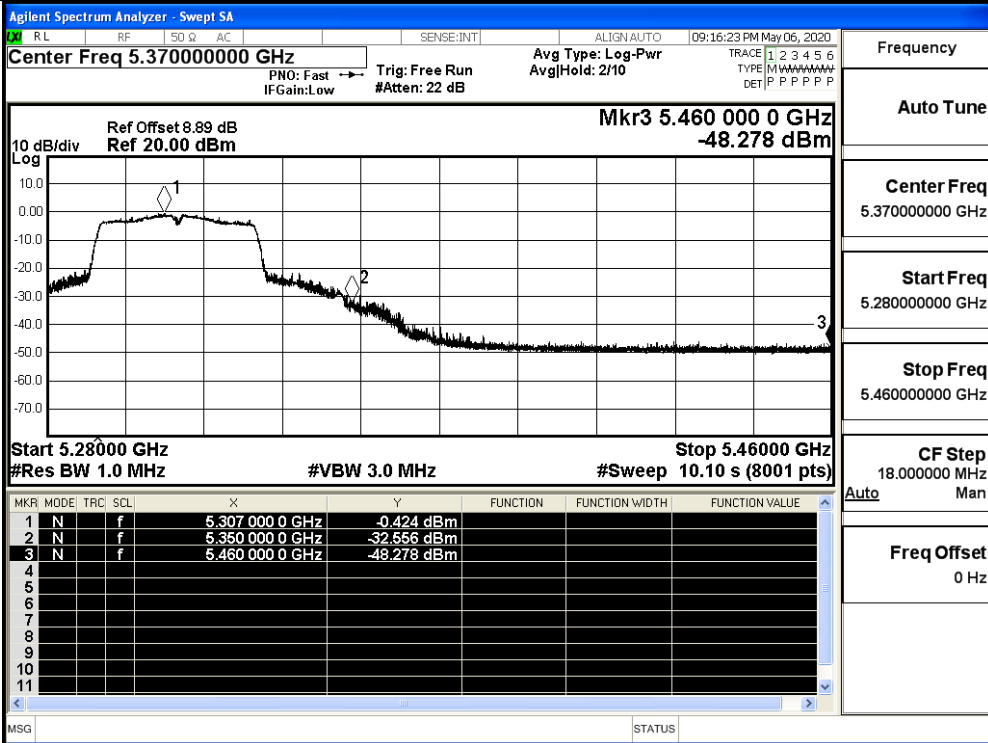


IEEE 802.11n40 / Channel 38 / 5270MHz / Peak



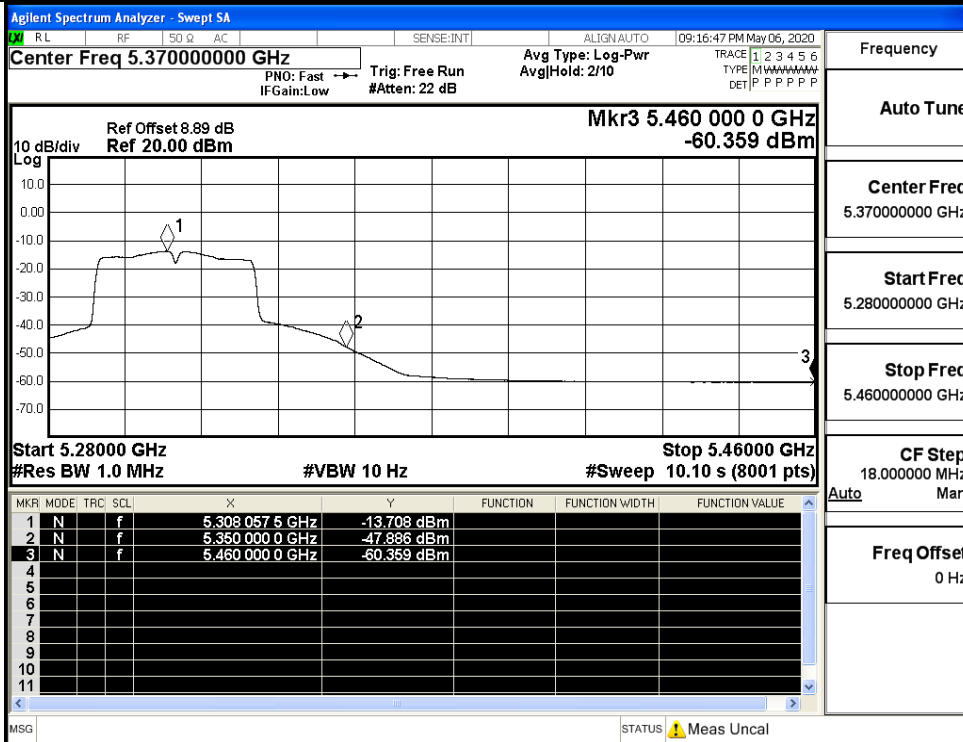
IEEE 802.11n40 / Channel 38 / 5270MHz / Average

Undesirable Emissions Measurement



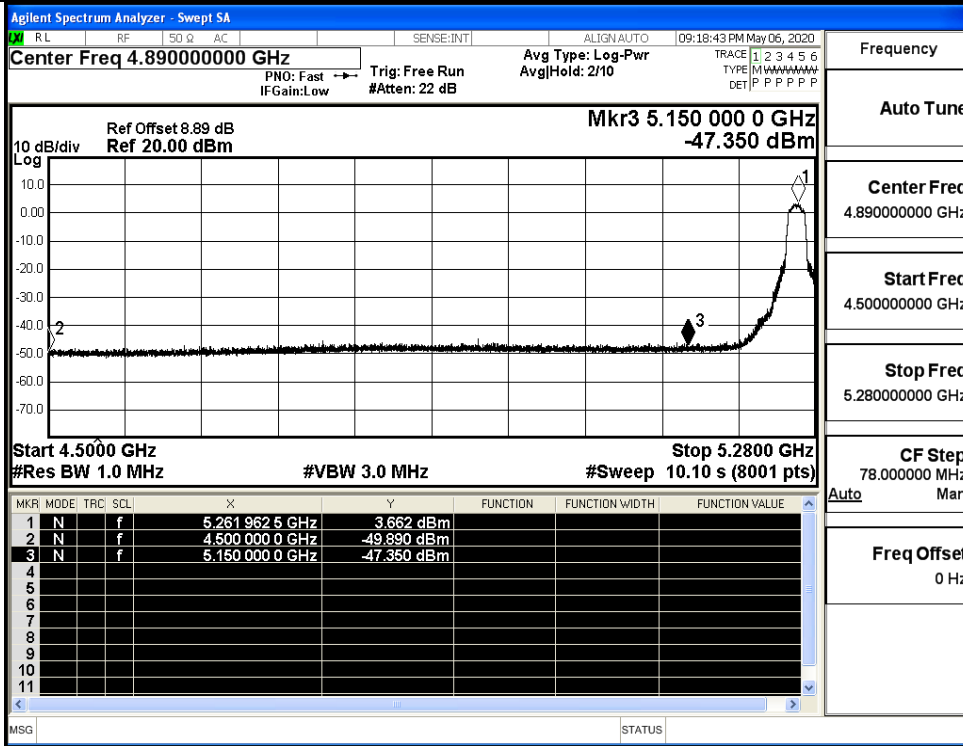
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Auto Tune	
Center Freq	5.370000000 GHz
Start Freq	5.280000000 GHz
Stop Freq	5.460000000 GHz
CF Step	18.000000 MHz
Auto	Man
Freq Offset	0 Hz

IEEE 802.11n40 / Channel 46 / 5310MHz / Peak

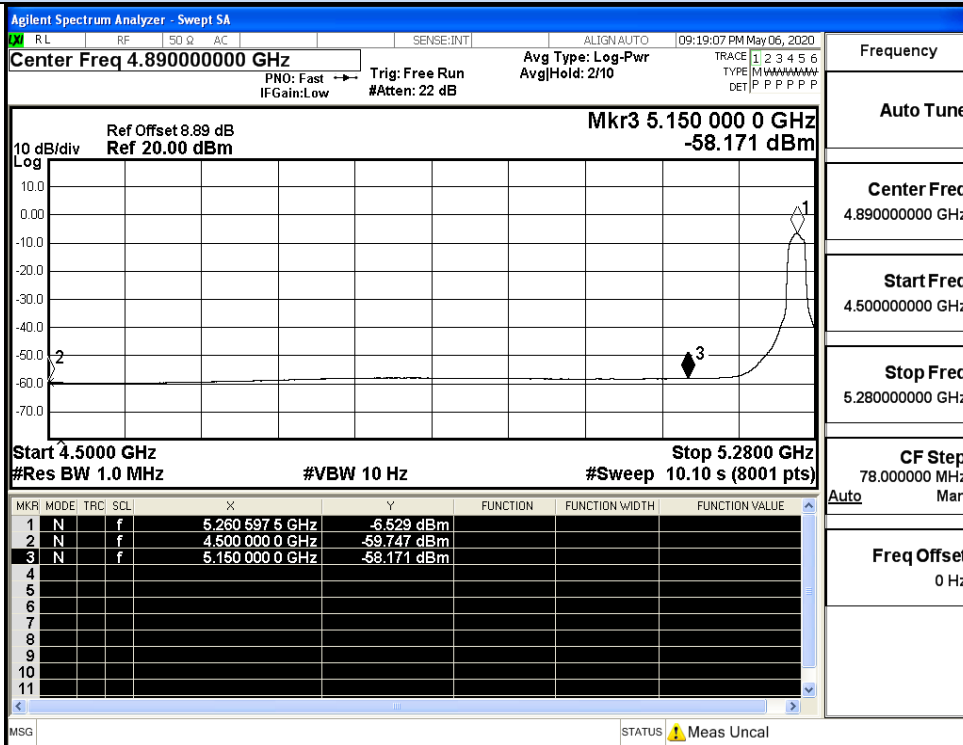


Frequency	
Auto Tune	
Center Freq	5.370000000 GHz
Start Freq	5.280000000 GHz
Stop Freq	5.460000000 GHz
CF Step	18.000000 MHz
Auto	Man
Freq Offset	0 Hz

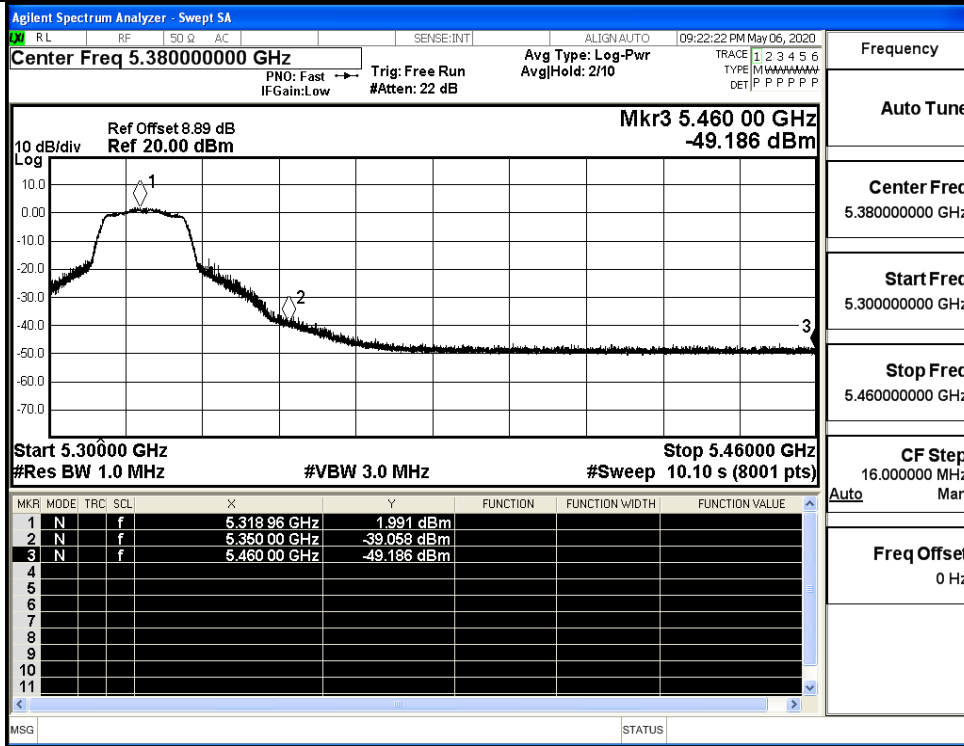
IEEE 802.11n40 / Channel 46 / 5310MHz / Average



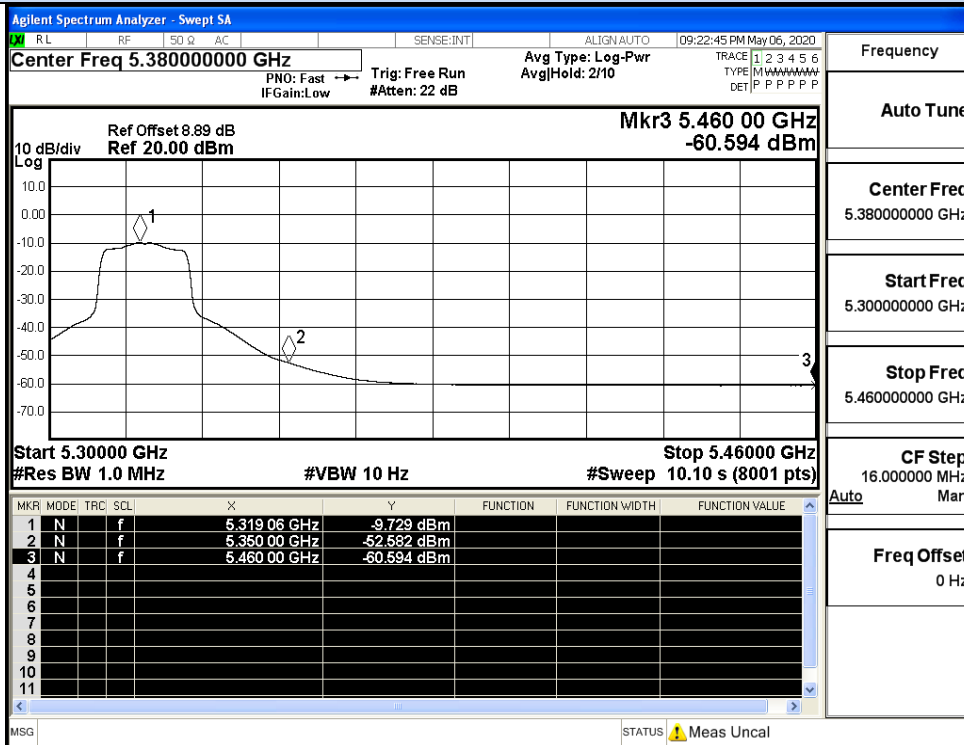
IEEE 802.11ac20 / Channel 36 / 5260MHz / Peak



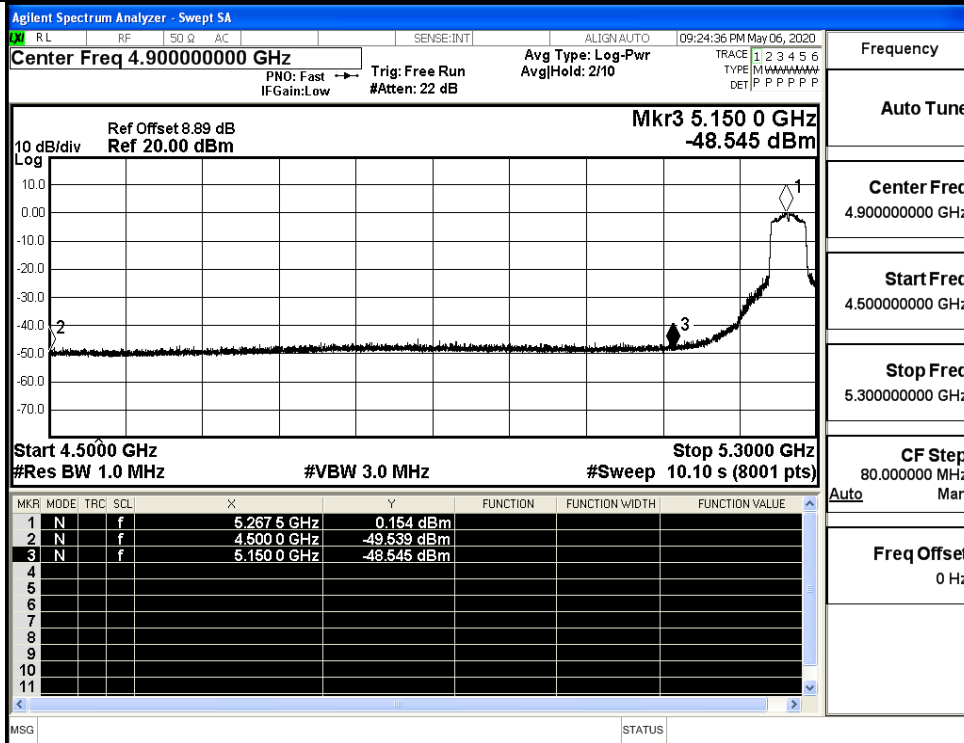
IEEE 802.11ac20 / Channel 36 / 5260MHz / Average



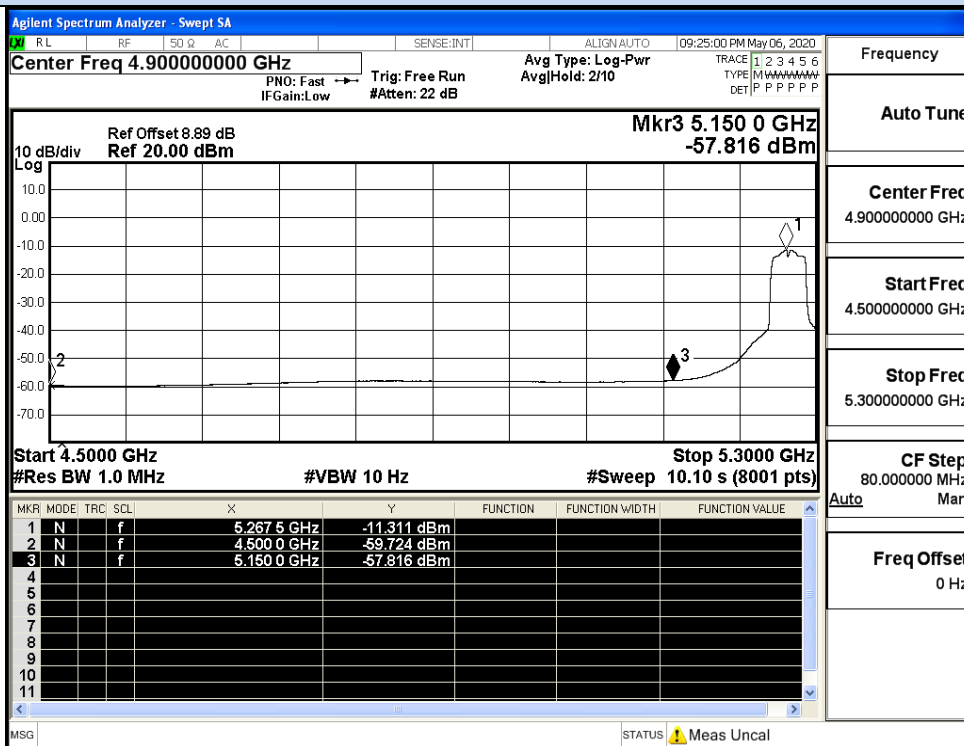
IEEE 802.11ac20 / Channel 48 / 5320MHz / Peak



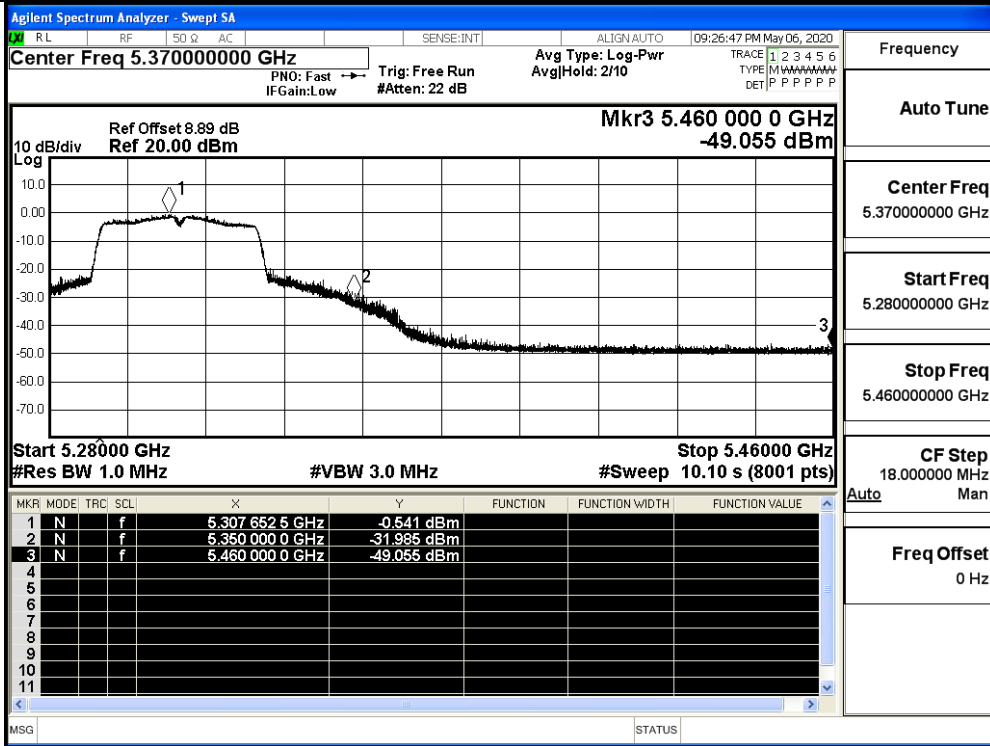
IEEE 802.11ac20 / Channel 48 / 5320MHz / Average



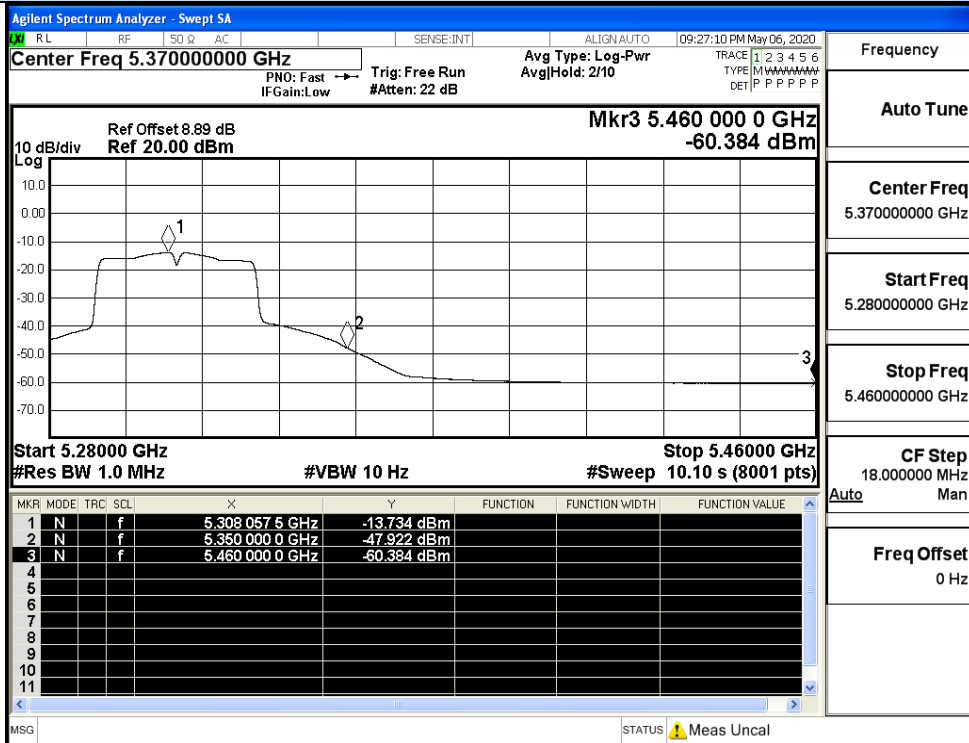
IEEE 802.11ac40 / Channel 38/ 5270MHz / Peak



IEEE 802.11ac40 / Channel 38 / 5270MHz / Average

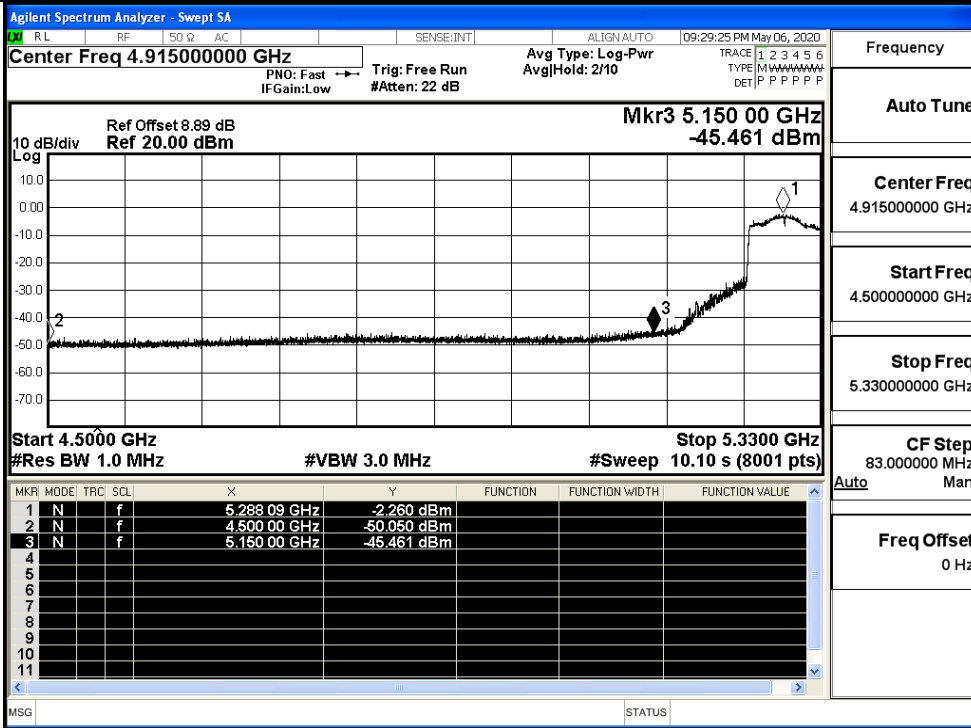


IEEE 802.11ac40 / Channel 46/ 5310MHz / Peak

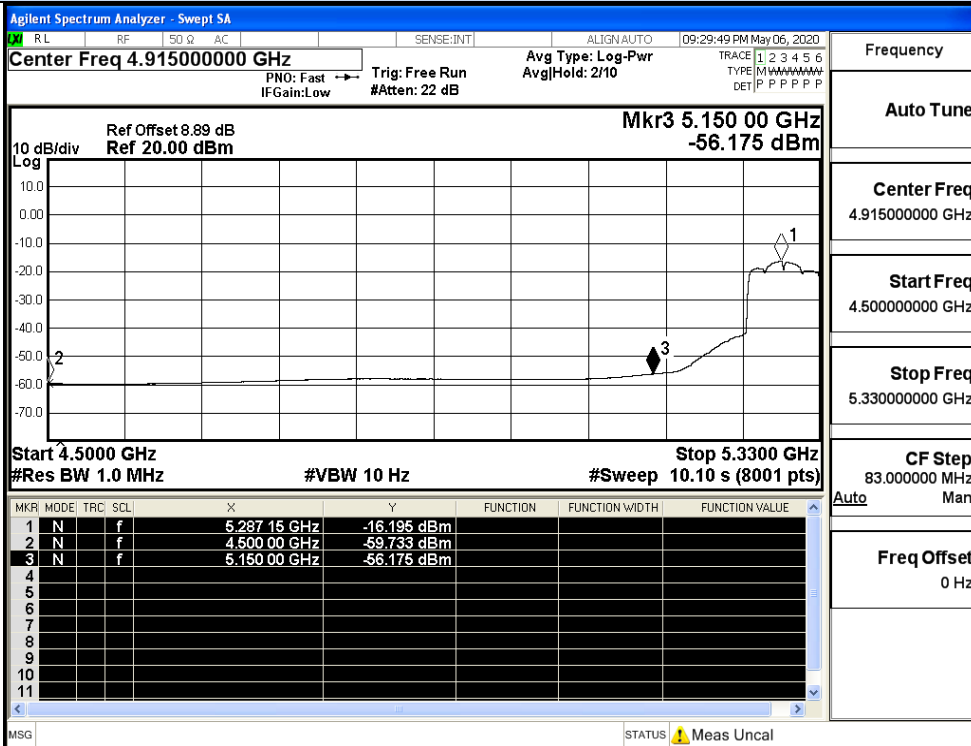


IEEE 802.11ac40 / Channel 46 / 5310MHz / Average

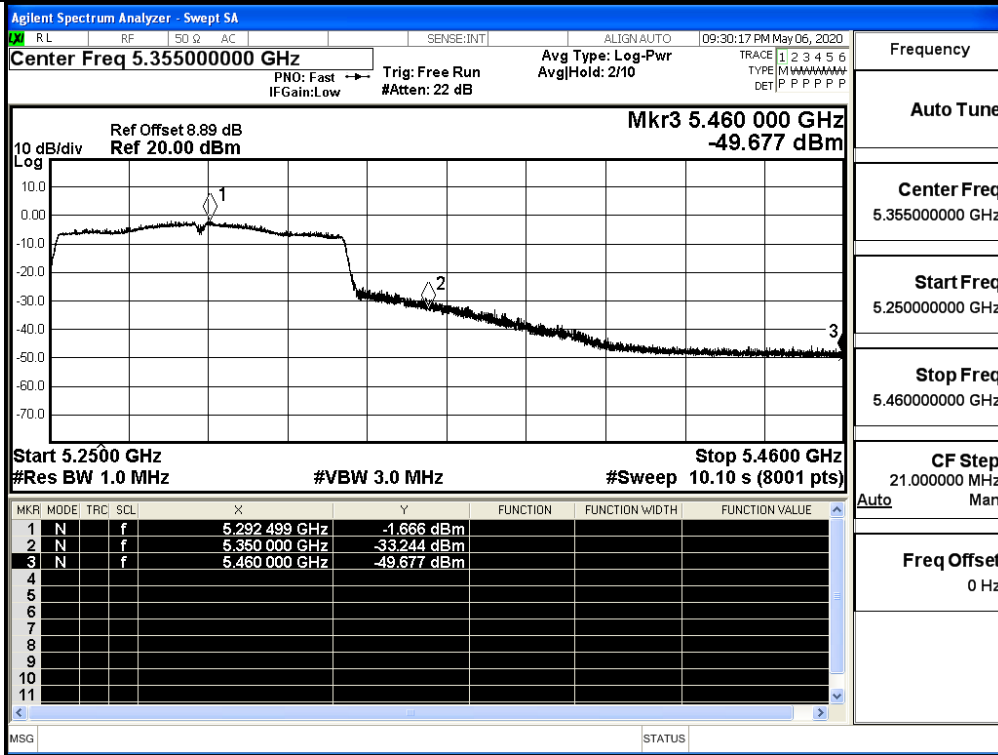




IEEE 802.11ac80 / Channel 42 / 5290MHz / Peak

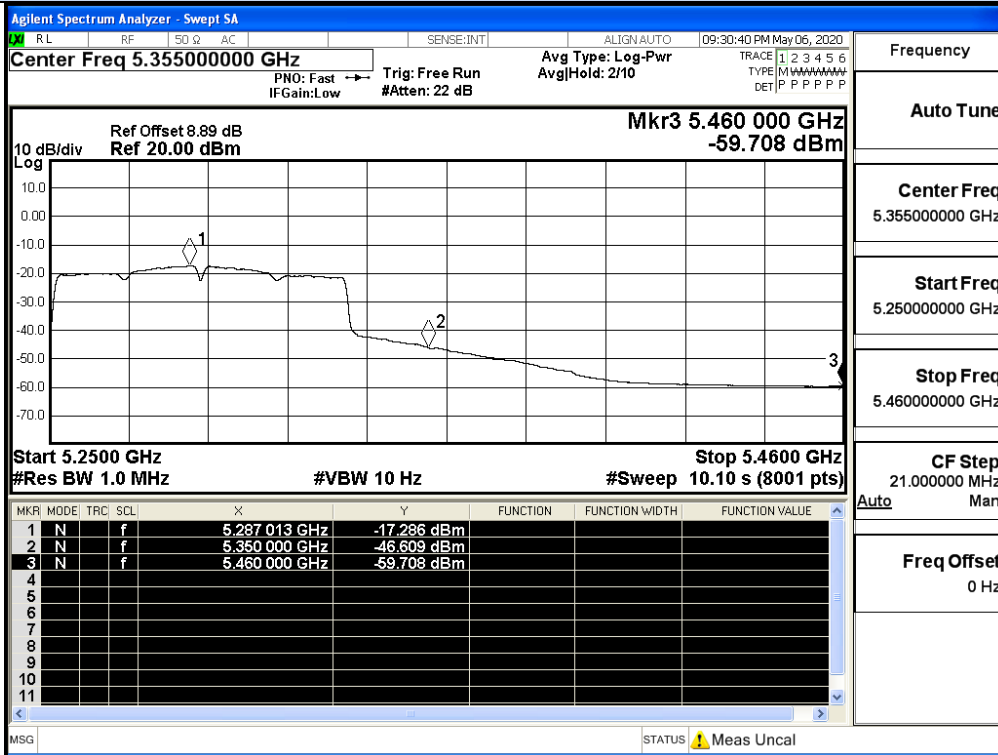


IEEE 802.11ac80 / Channel 42 / 5290MHz / Average



Frequency
Auto Tune
Center Freq 5.355000000 GHz
Start Freq 5.250000000 GHz
Stop Freq 5.460000000 GHz
CF Step 21.000000 MHz
Auto
Man
Freq Offset 0 Hz

IEEE 802.11ac80 / Channel 42 / 5290MHz / Peak



Frequency
Auto Tune
Center Freq 5.355000000 GHz
Start Freq 5.250000000 GHz
Stop Freq 5.460000000 GHz
CF Step 21.000000 MHz
Auto
Man
Freq Offset 0 Hz

IEEE 802.11ac80 / Channel 42 / 5290MHz / Average