

Appendix D

RF Test Data for 5.2G WLAN (Conducted Measurement)

Product Name: Dash camera

Trade Mark: SCOSCHE

Test Model: NEXC1

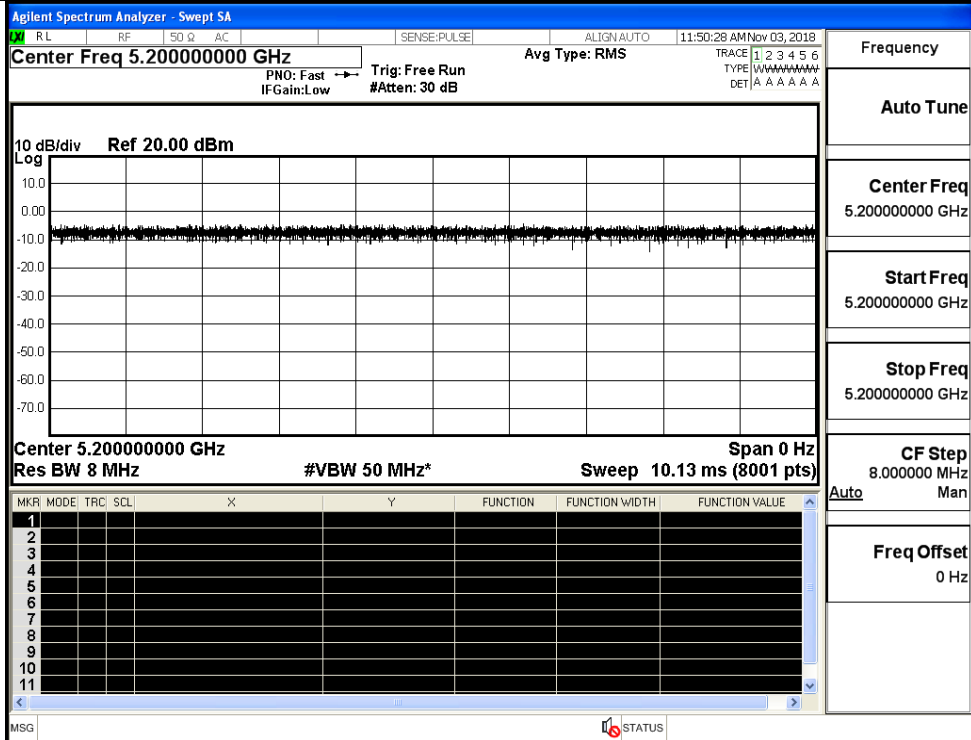
Environmental Conditions

Temperature:	24.5 ° C
Relative Humidity:	54.1%
ATM Pressure:	100.0 kPa
Test Engineer:	Mina.Xu
Supervised by:	Jayden.Zhuo

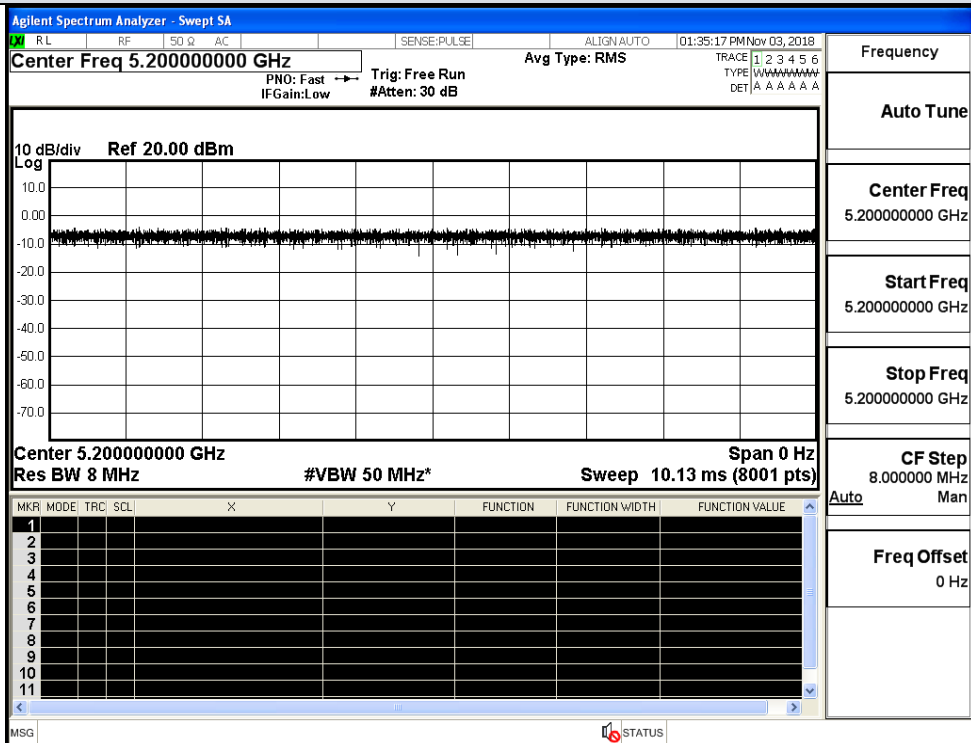
D.1 Duty Cycle

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

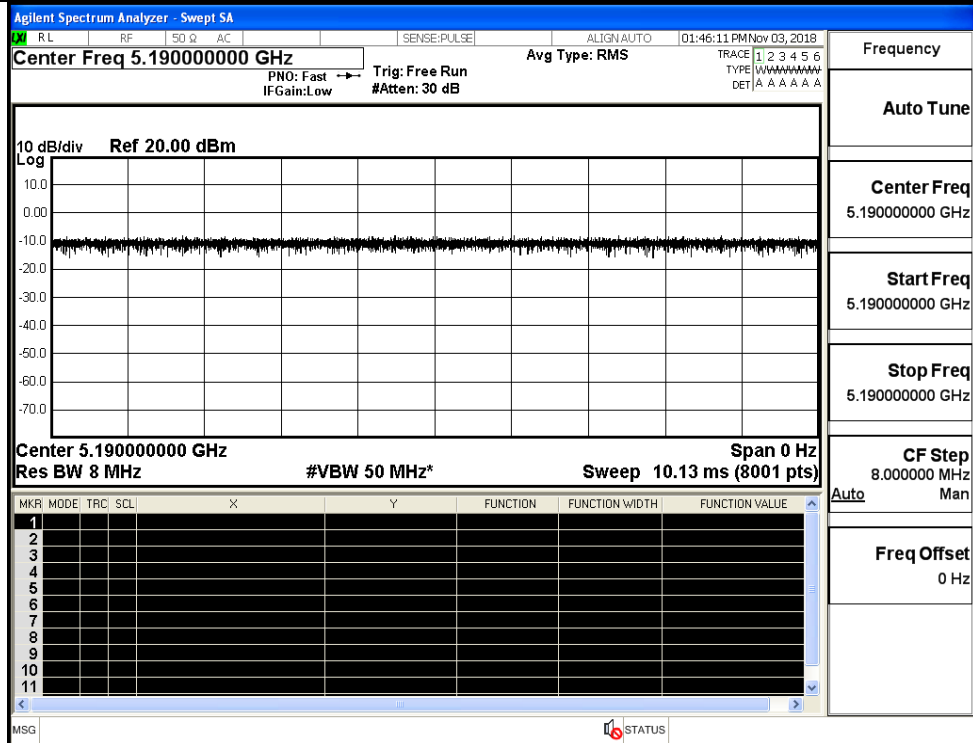
On Time and Duty Cycle



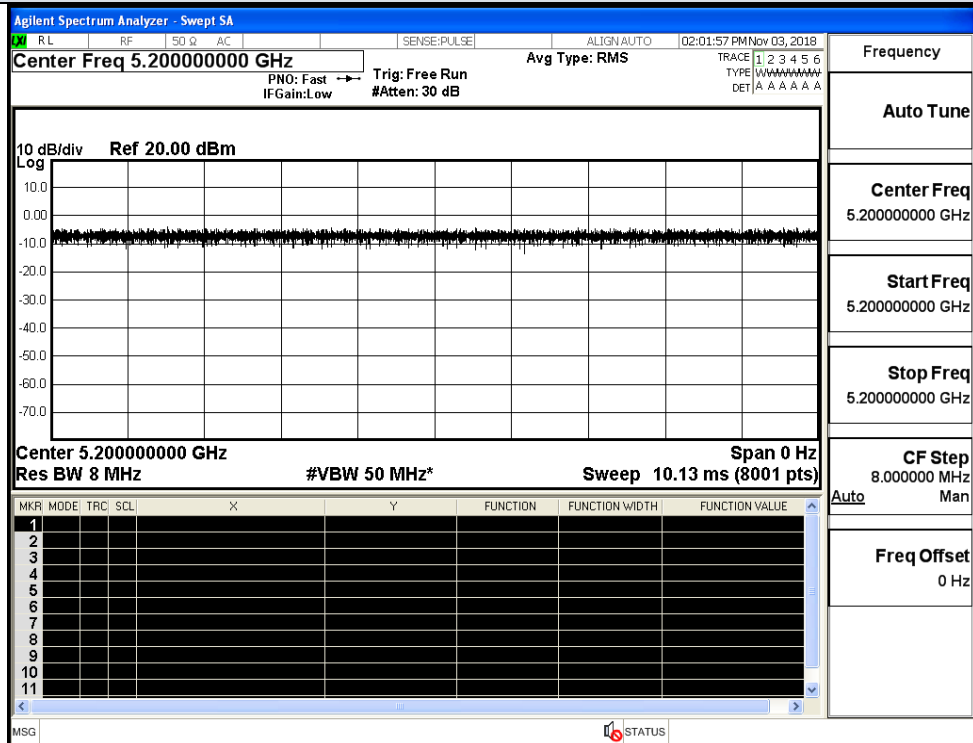
IEEE 802.11a



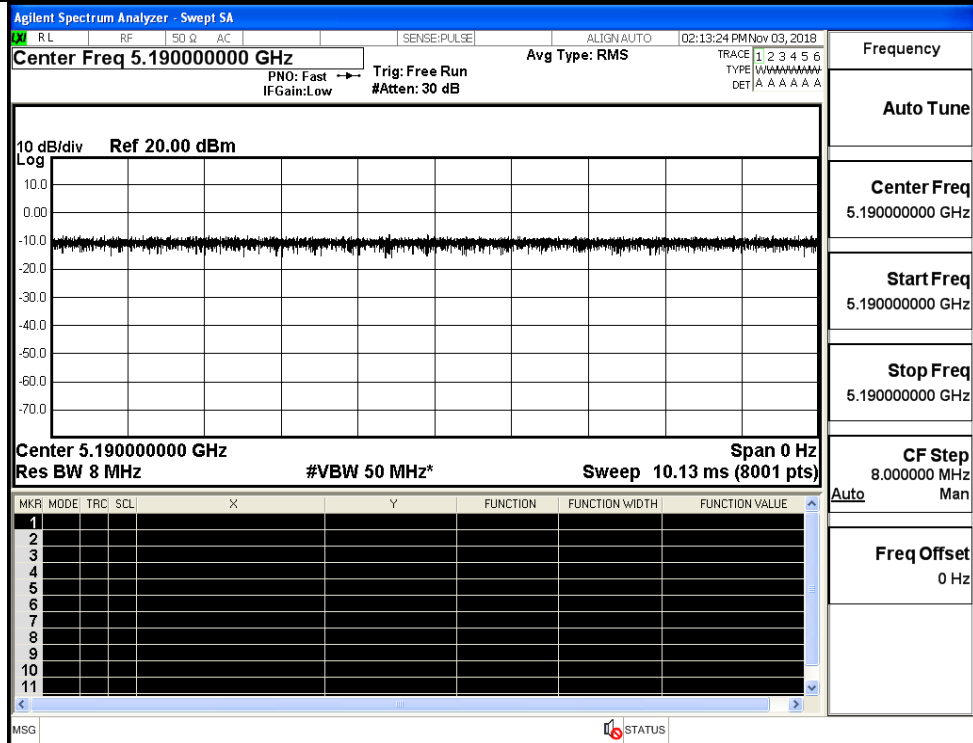
IEEE 802.11n HT20



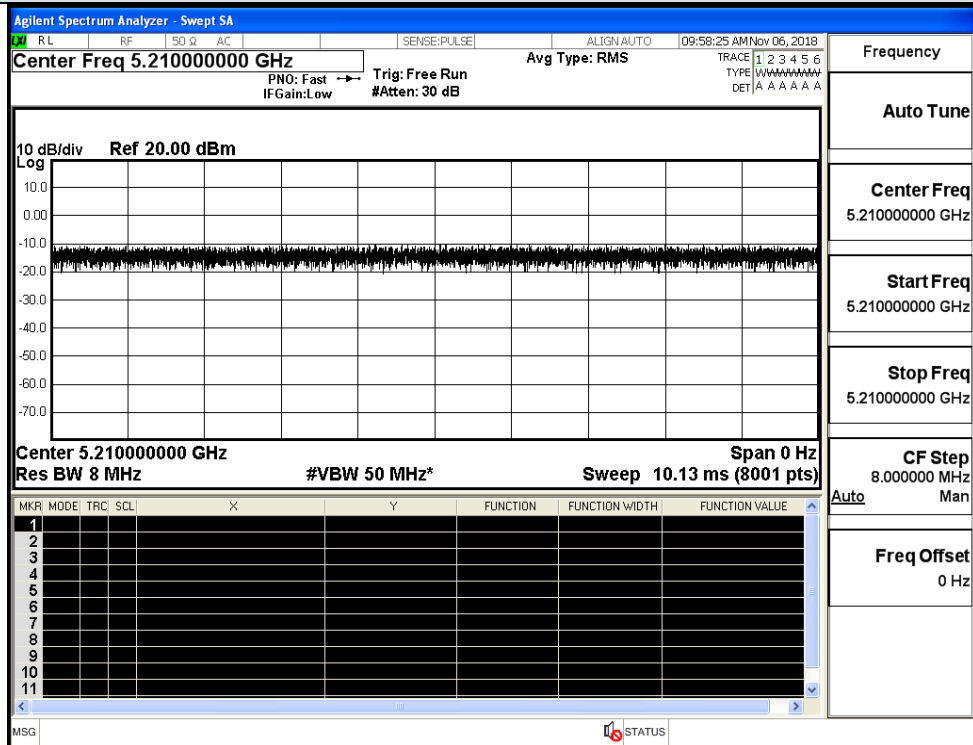
IEEE 802.11n HT40



IEEE 802.11ac VHT20



IEEE 802.11ac VHT40



IEEE 802.11ac VHT80

D.2 Maximum Conduct Output Power

For FCC Review

Test Mode	Channel	Frequency (MHz)	AVG Conducted Power (dBm)	Duty Cycle Factor (dB)	Report Conducted Power (dBm)	Limit (dBm)
IEEE 802.11 a	36	5180	8.51	0	8.51	24
	40	5200	9.68	0	9.68	
	48	5240	10.32	0	10.32	
IEEE 802.11 n HT20	36	5180	9.54	0	9.54	24
	40	5200	9.88	0	9.88	
	48	5240	10.32	0	10.32	
IEEE 802.11 n HT40	38	5190	9.61	0	9.61	24
	46	5230	10.26	0	10.26	
IEEE 802.11 ac VHT20	36	5180	9.53	0	9.53	24
	40	5200	9.89	0	9.89	
	48	5240	10.50	0	10.5	
IEEE 802.11 ac VHT40	38	5190	9.83	0	9.83	24
	46	5230	10.22	0	10.22	
IEEE 802.11 ac VHT80	42	5210	10.38	0	10.38	24

For ISED Review

Test Mode	Channel	Frequency (MHz)	AVG Conducted Power (dBm)	Duty Cycle Factor (dB)	Antenna Gain (dBi)	EIRP (dBm)	EIRP Limit (dBm)
IEEE 802.11 a	36	5180	8.51	0	3.50	12.01	14.77
	40	5200	9.68	0	3.50	13.18	
	48	5240	10.32	0	3.50	13.82	
IEEE 802.11 n HT20	36	5180	9.54	0	3.50	13.04	14.77
	40	5200	9.88	0	3.50	13.38	
	48	5240	10.32	0	3.50	13.82	
IEEE 802.11 n HT40	38	5190	9.61	0	3.50	13.11	14.77
	46	5230	10.26	0	3.50	13.76	
IEEE 802.11 ac VHT20	36	5180	9.53	0	3.50	13.03	14.77
	40	5200	9.89	0	3.50	13.39	
	48	5240	10.50	0	3.50	14.00	
IEEE 802.11 ac VHT40	38	5190	9.83	0	3.50	13.33	14.77
	46	5230	10.22	0	3.50	13.72	
IEEE 802.11 ac VHT80	42	5210	10.38	0	3.50	13.88	14.77

D.3 Power Spectral Density

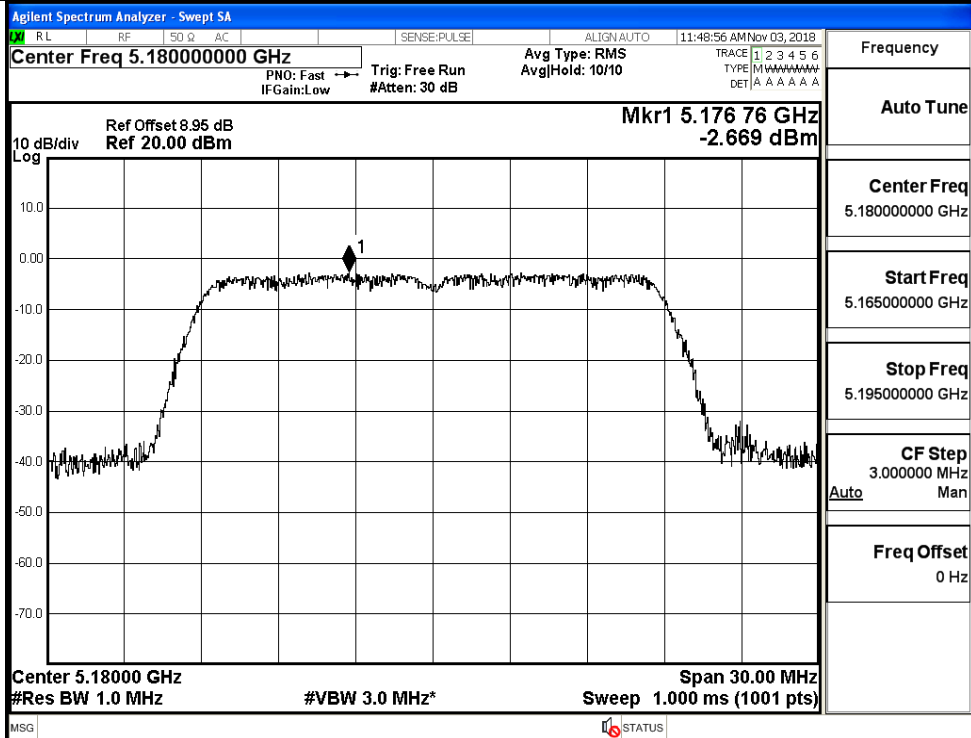
For FCC Review

Test Mode	Channel	Frequency (MHz)	Power Density (dBm/MHz)	Duty Cycle Factor (dB)	Report Power Density (dBm/MHz)	Limit (dBm/MHz)
IEEE 802.11 a	36	5180	-2.669	0	-2.669	11
	40	5200	-1.630	0	-1.630	
	48	5240	-0.965	0	-0.965	
IEEE 802.11 n HT20	36	5180	-1.710	0	-1.710	11
	40	5200	-1.414	0	-1.414	
	48	5240	-0.835	0	-0.835	
IEEE 802.11 n HT40	38	5190	-4.206	0	-4.206	11
	46	5230	-3.238	0	-3.238	
IEEE 802.11 ac VHT20	36	5180	-1.802	0	-1.802	11
	40	5200	-1.190	0	-1.190	
	48	5240	-0.831	0	-0.831	
IEEE 802.11 ac VHT40	38	5190	-4.124	0	-4.124	11
	46	5230	-2.996	0	-2.996	
IEEE 802.11 ac VHT80	42	5210	-3.760	0	-3.760	11

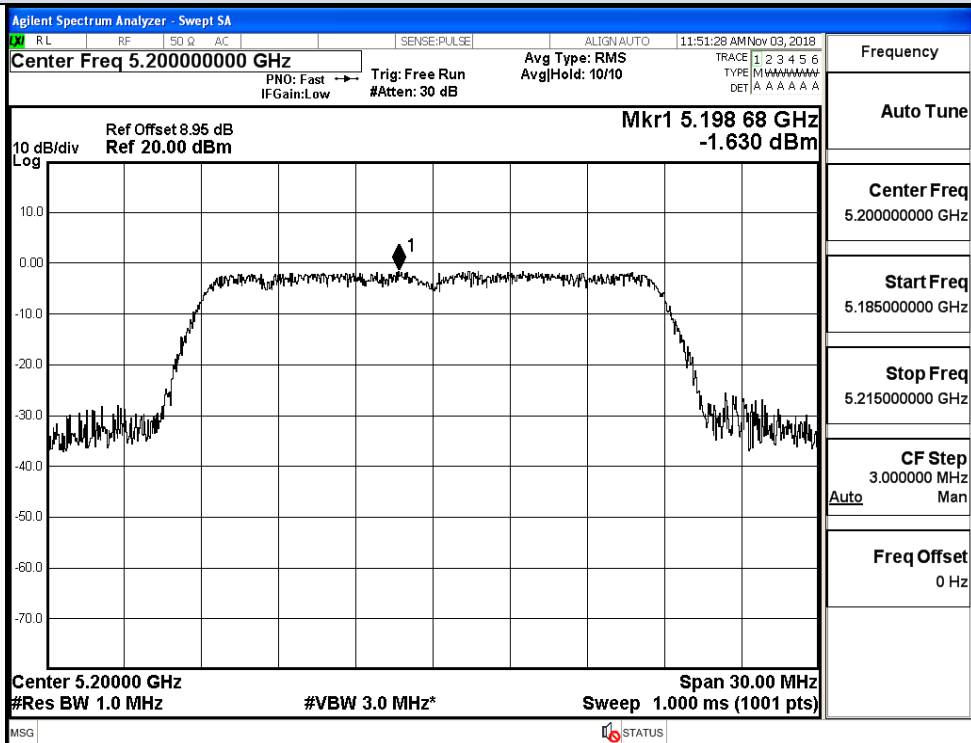
For ISSED Review

Test Mode	Channel	Frequency (MHz)	Power Density (dBm/MHz)	Duty Cycle Factor (dB)	Antenna Gain (dBi)	Report Power Density (dBm/MHz)	EIRP Limit (dBm/MHz)
IEEE 802.11 a	36	5180	-2.669	0	3.50	0.831	10.00
	40	5200	-1.630	0	3.50	1.870	
	48	5240	-0.965	0	3.50	2.535	
IEEE 802.11 n HT20	36	5180	-1.710	0	3.50	1.790	10.00
	40	5200	-1.414	0	3.50	2.086	
	48	5240	-0.835	0	3.50	2.665	
IEEE 802.11 n HT40	38	5190	-4.206	0	3.50	-0.706	10.00
	46	5230	-3.238	0	3.50	0.262	
IEEE 802.11 ac VHT20	36	5180	-1.802	0	3.50	1.698	10.00
	40	5200	-1.190	0	3.50	2.310	
	48	5240	-0.831	0	3.50	2.669	
IEEE 802.11 ac VHT40	38	5190	-4.124	0	3.50	-0.624	10.00
	46	5230	-2.996	0	3.50	0.504	
IEEE 802.11 ac VHT80	42	5210	-3.760	0	3.50	-0.260	10.00

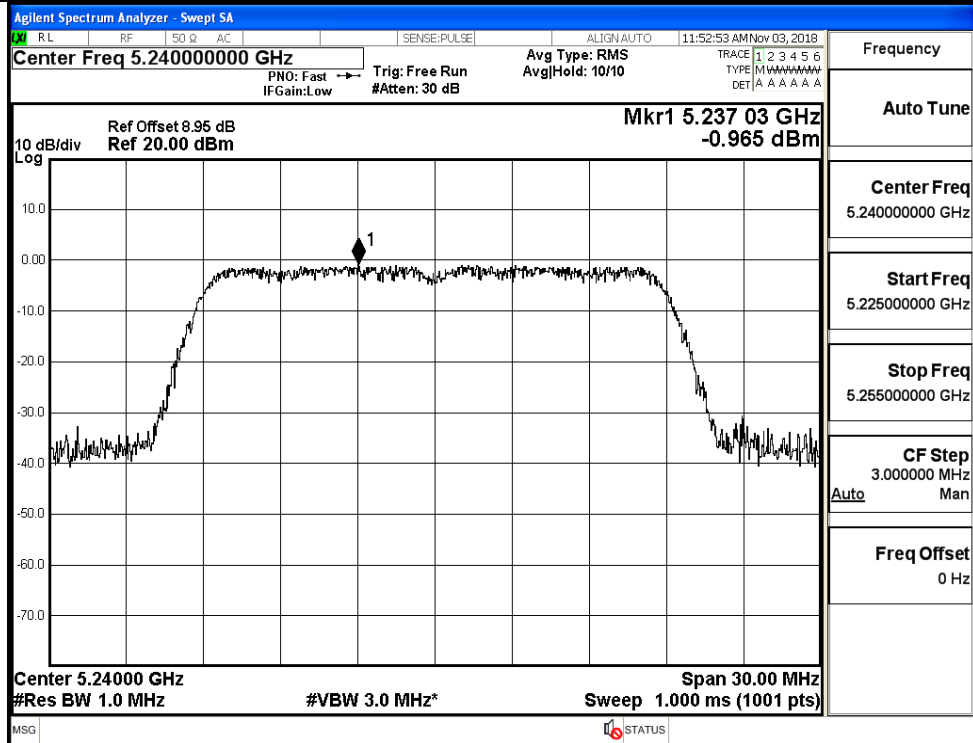
Power Spectral Density



IEEE 802.11a / Channel 36 / 5180 MHz

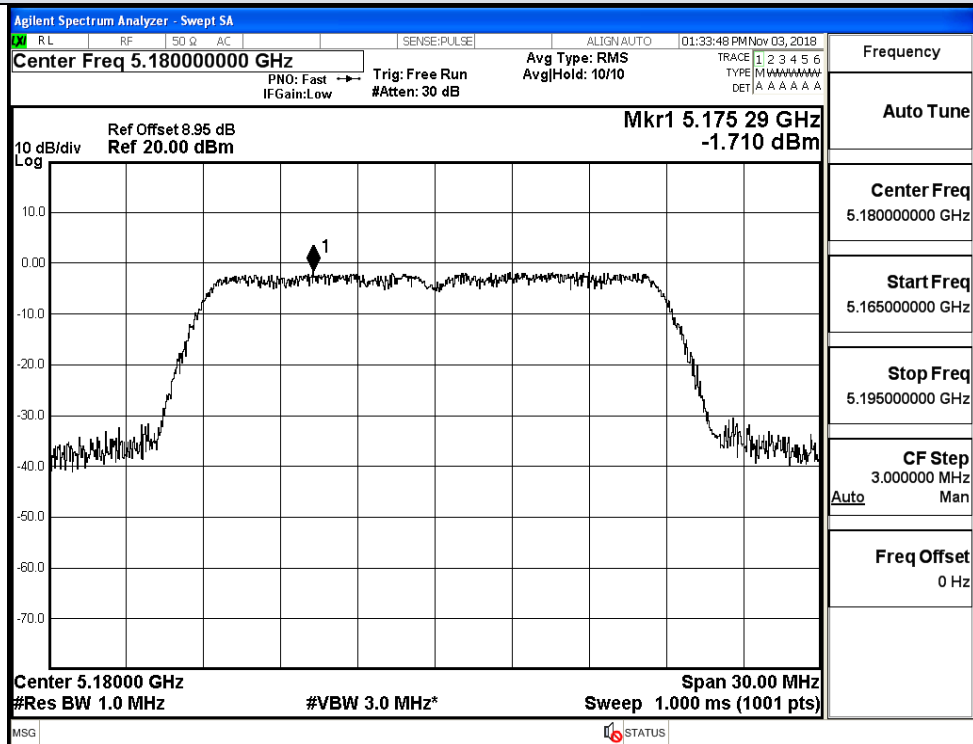


IEEE 802.11a / Channel 40 / 5200 MHz

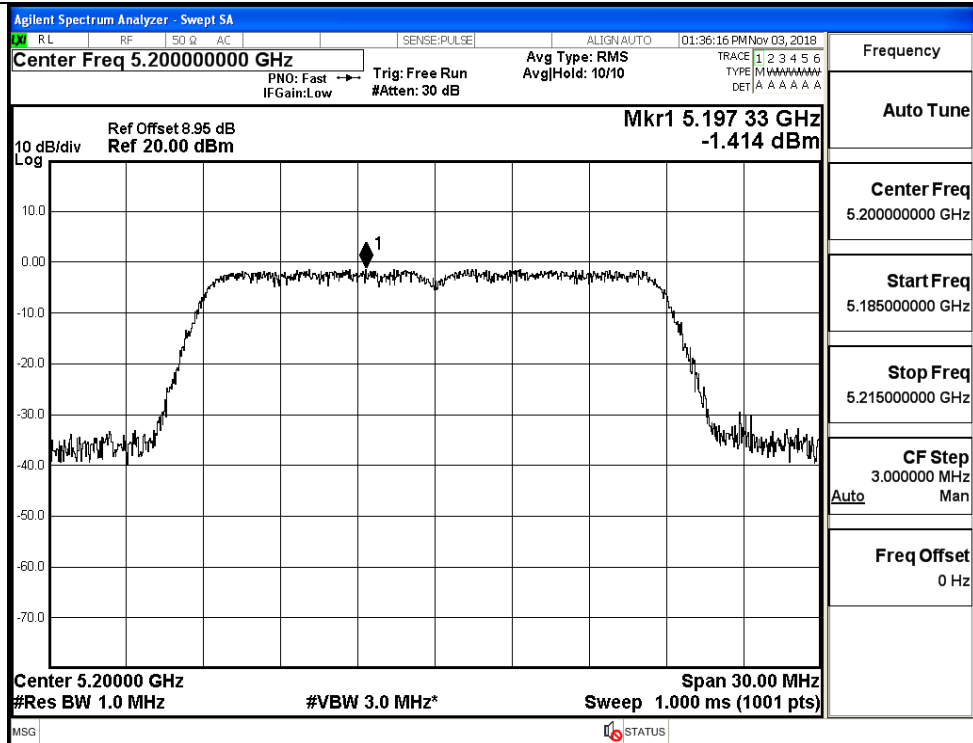


IEEE 802.11a / Channel 48 / 5240 MHz

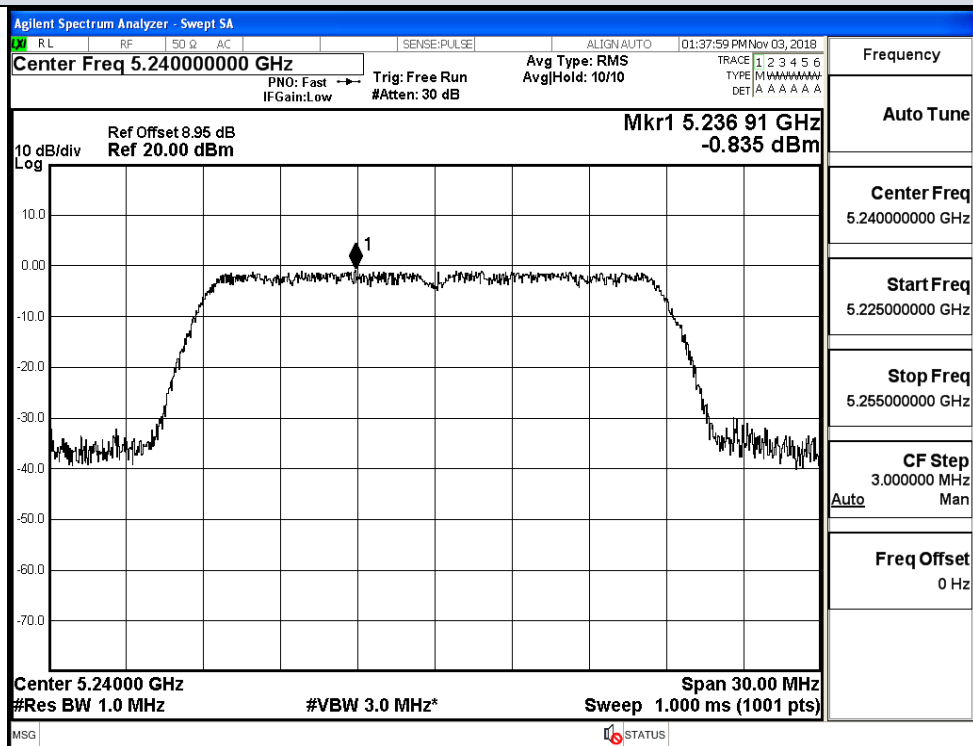
Power Spectral Density



IEEE 802.11n HT20 / Channel 36 / 5180 MHz

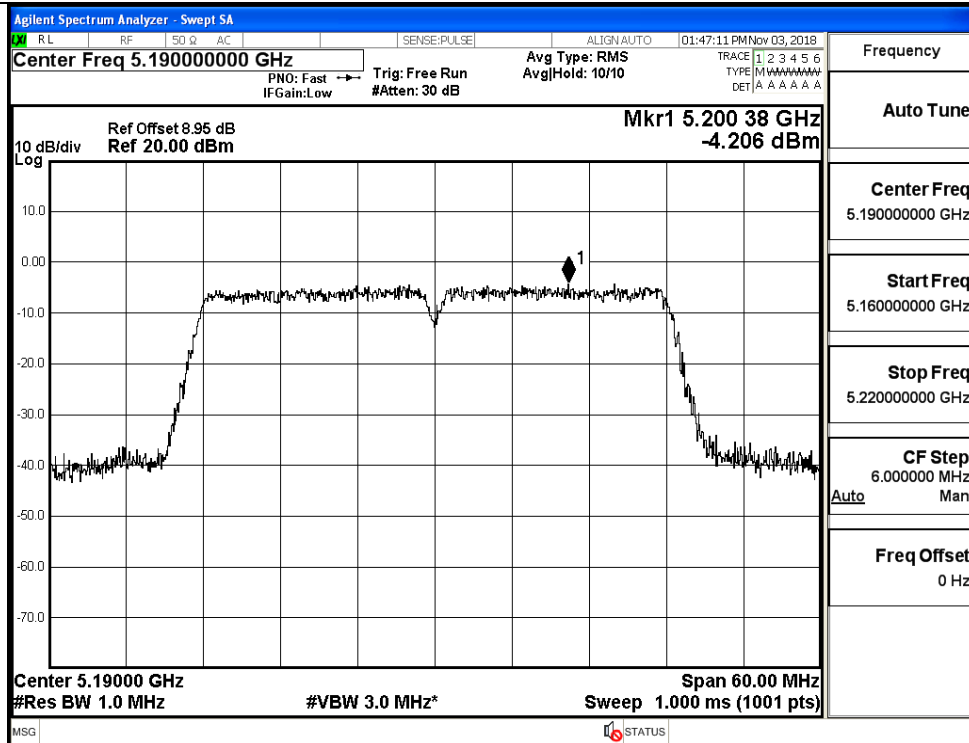


IEEE 802.11n HT20 / Channel 40 / 5200 MHz

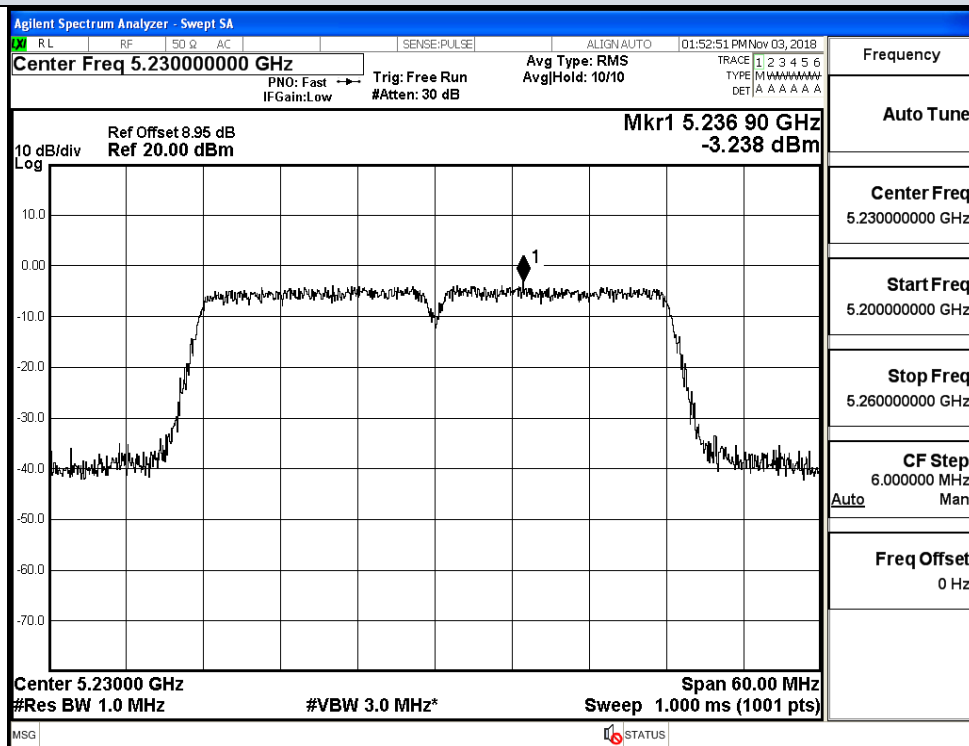


IEEE 802.11n HT20 / Channel 48 / 5240 MHz

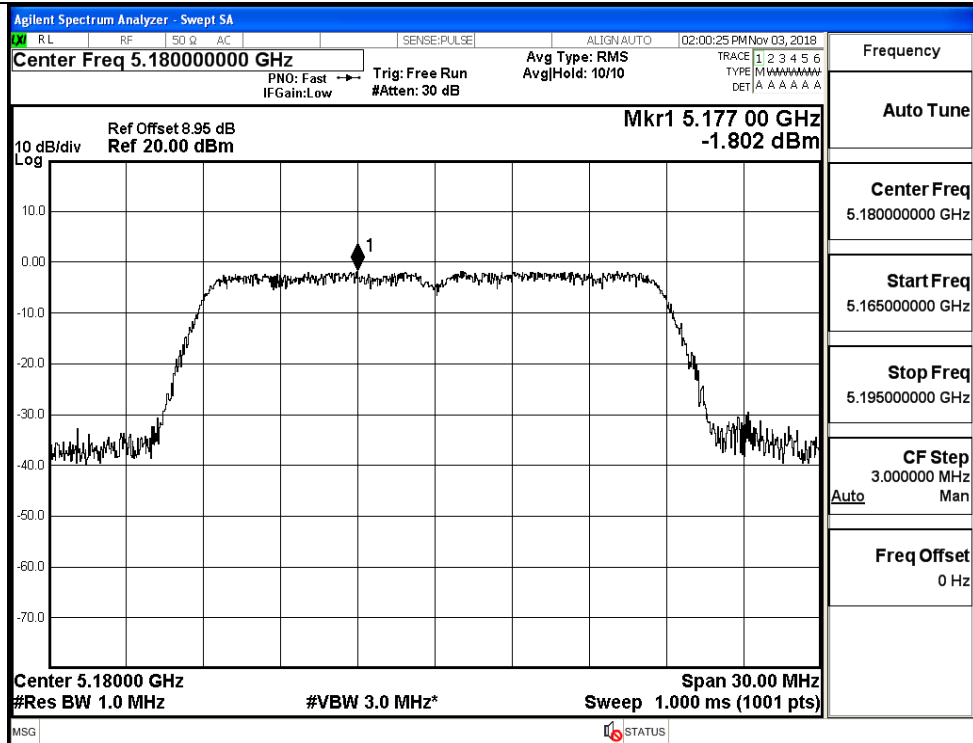
Power Spectral Density



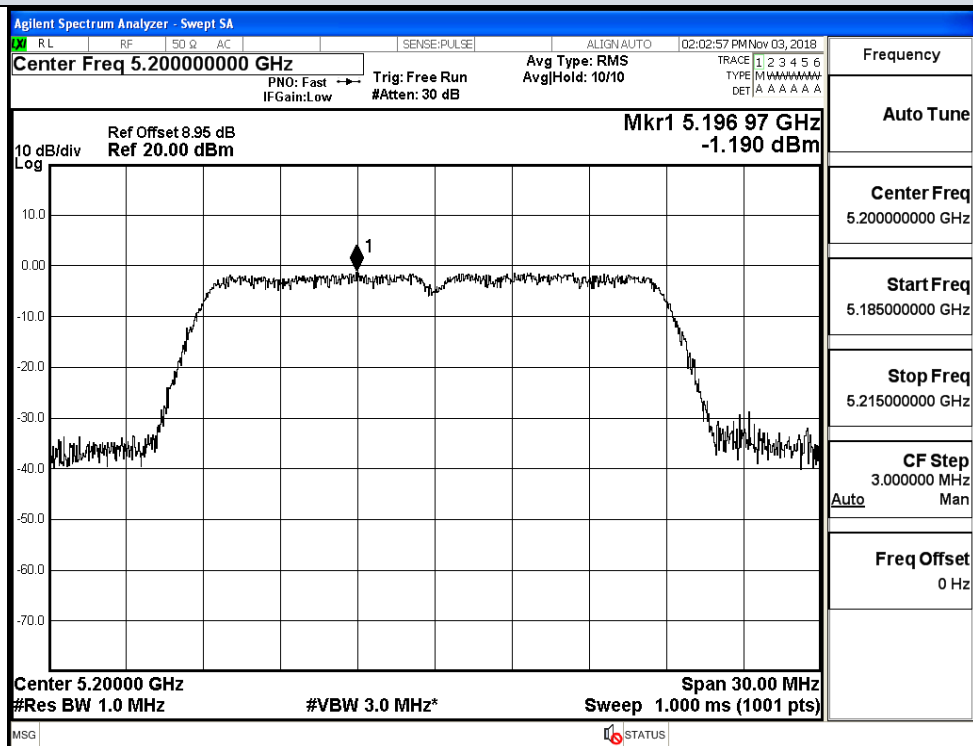
IEEE 802.11n HT40 / Channel 38 / 5190 MHz



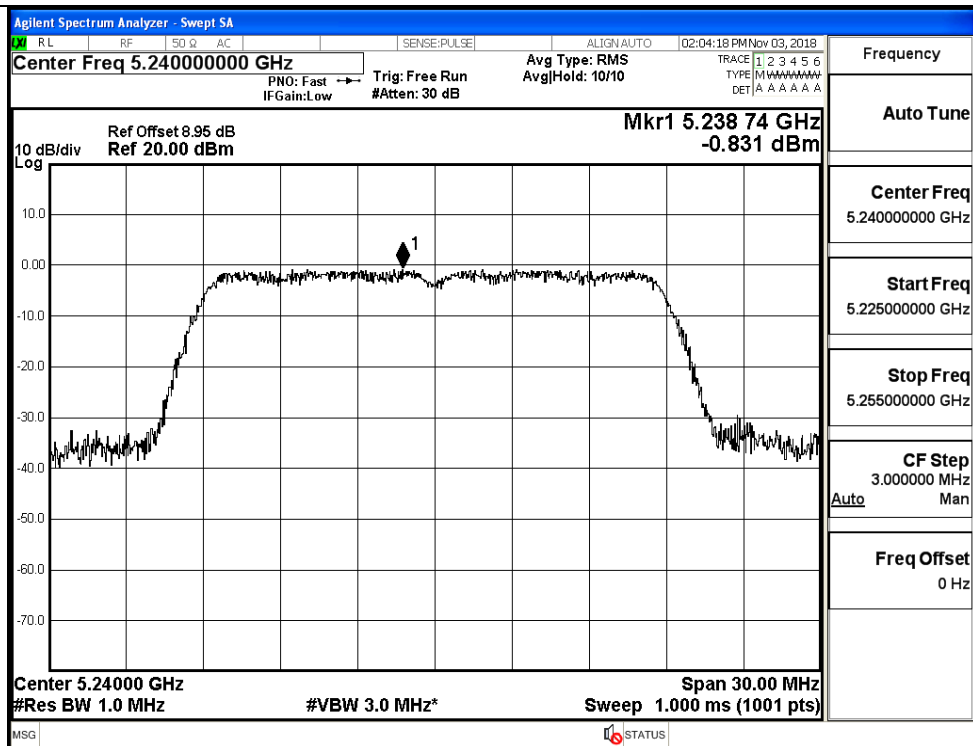
IEEE 802.11n HT40 / Channel 46 / 5230 MHz



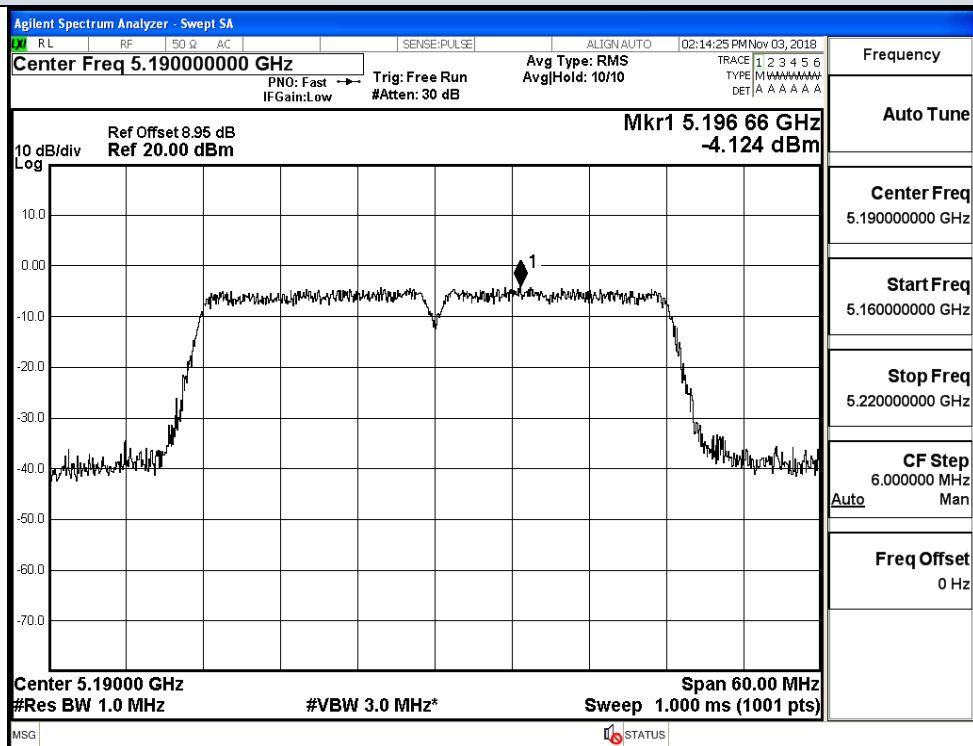
IEEE 802.11ac VHT20 / Channel 36 / 5180 MHz



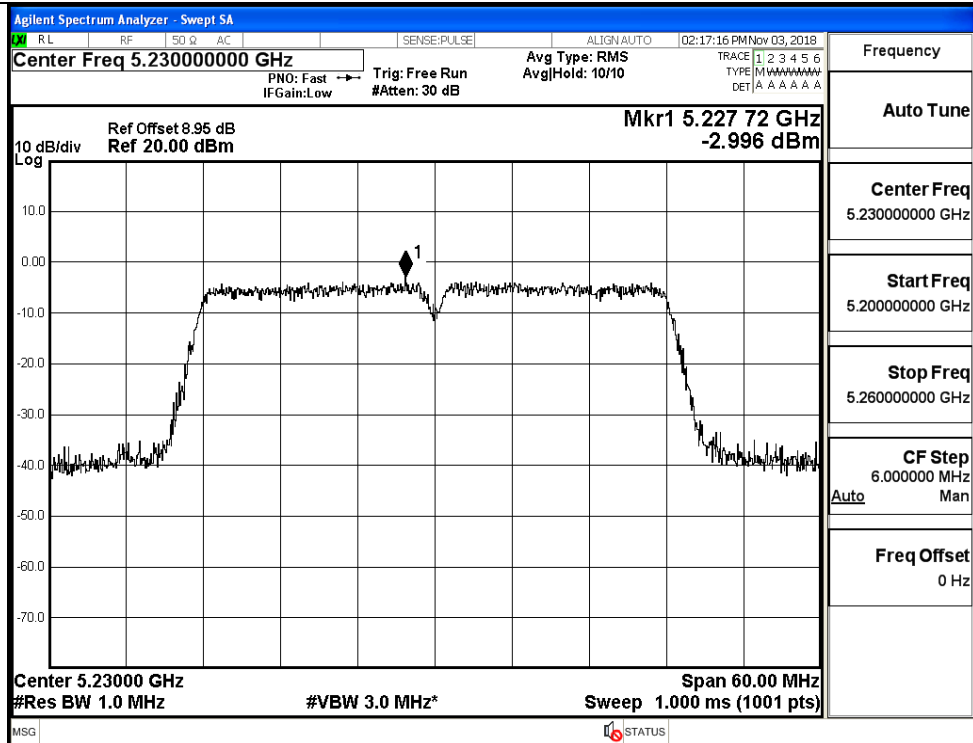
IEEE 802.11ac VHT20 / Channel 40 / 5200 MHz



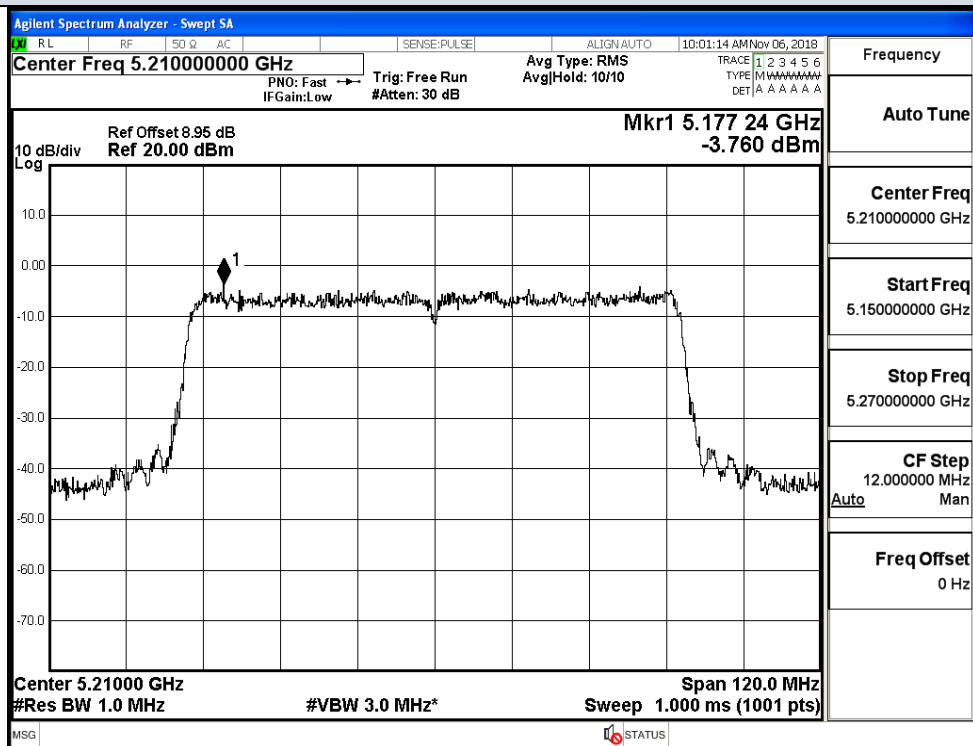
IEEE 802.11ac VHT20 / Channel 48 / 5240 MHz



IEEE 802.11ac VHT40 / Channel 38 / 5190 MHz



IEEE 802.11ac VHT40 / Channel 46 / 5230 MHz

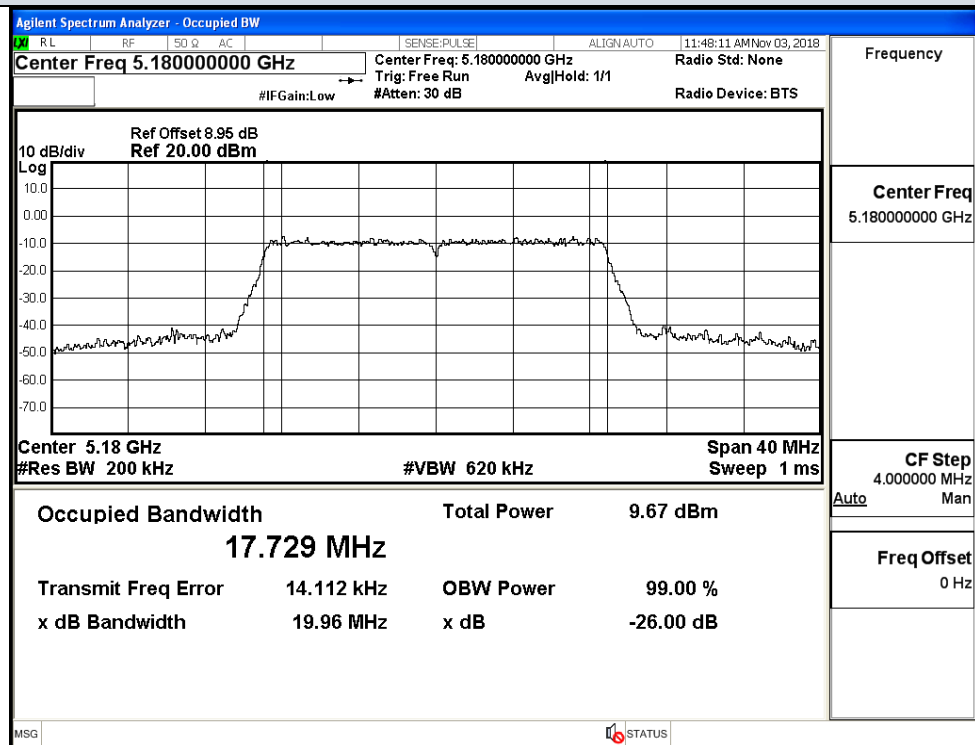


IEEE 802.11ac VHT80 / Channel 42 / 5210 MHz

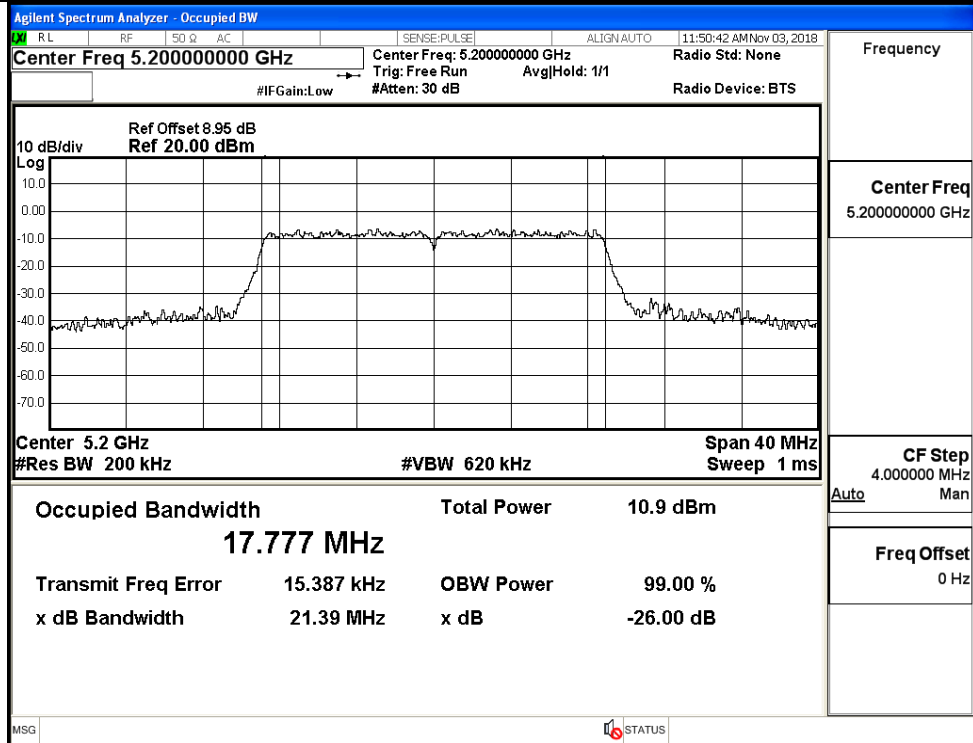
D.4 Emission Bandwidth

Test Mode	Channel	Frequency (MHz)	26dB Bandwidth (MHz)	99% Bandwidth (MHz)	Limit (MHz)
IEEE 802.11 a	36	5180	19.960	17.729	No Limit
	40	5200	21.390	17.777	
	48	5240	19.960	17.753	
IEEE 802.11 n HT20	36	5180	19.930	17.753	No Limit
	40	5200	19.840	17.762	
	48	5240	19.970	17.757	
IEEE 802.11 n HT40	38	5190	40.100	36.236	No Limit
	46	5230	40.070	36.126	
IEEE 802.11 ac VHT20	36	5180	20.020	17.770	No Limit
	40	5200	19.960	17.764	
	48	5240	19.890	17.750	
IEEE 802.11 ac VHT40	38	5190	39.970	36.187	No Limit
	46	5230	40.040	36.180	
IEEE 802.11 ac VHT80	42	5210	80.840	75.392	No Limit

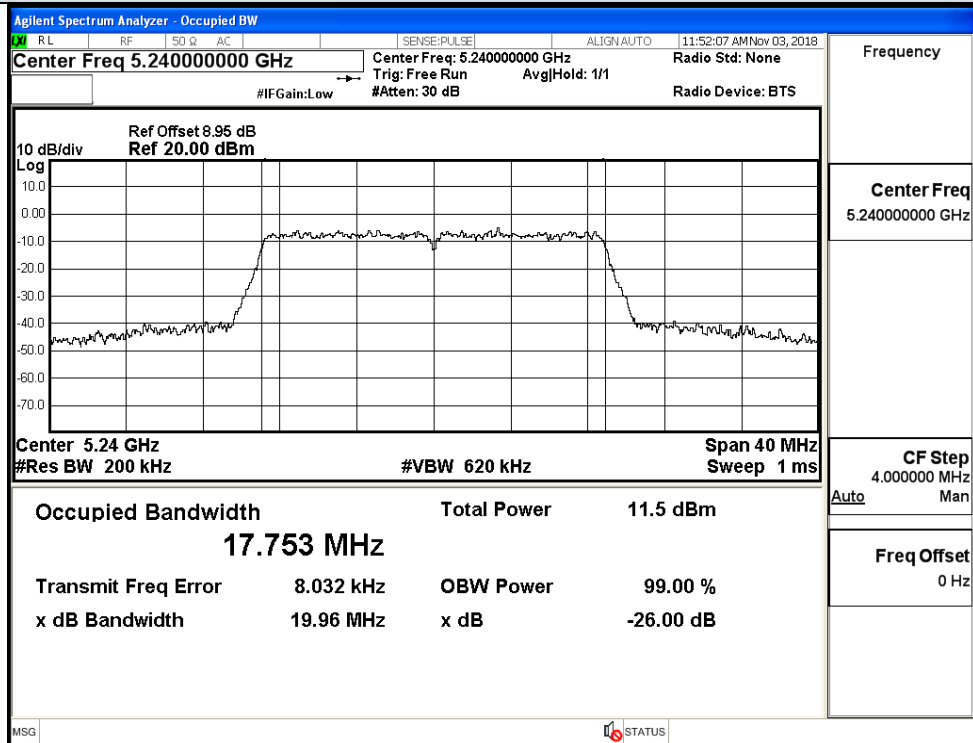
99% and 26dB Bandwidth



IEEE 802.11a / Channel 36 / 5180 MHz

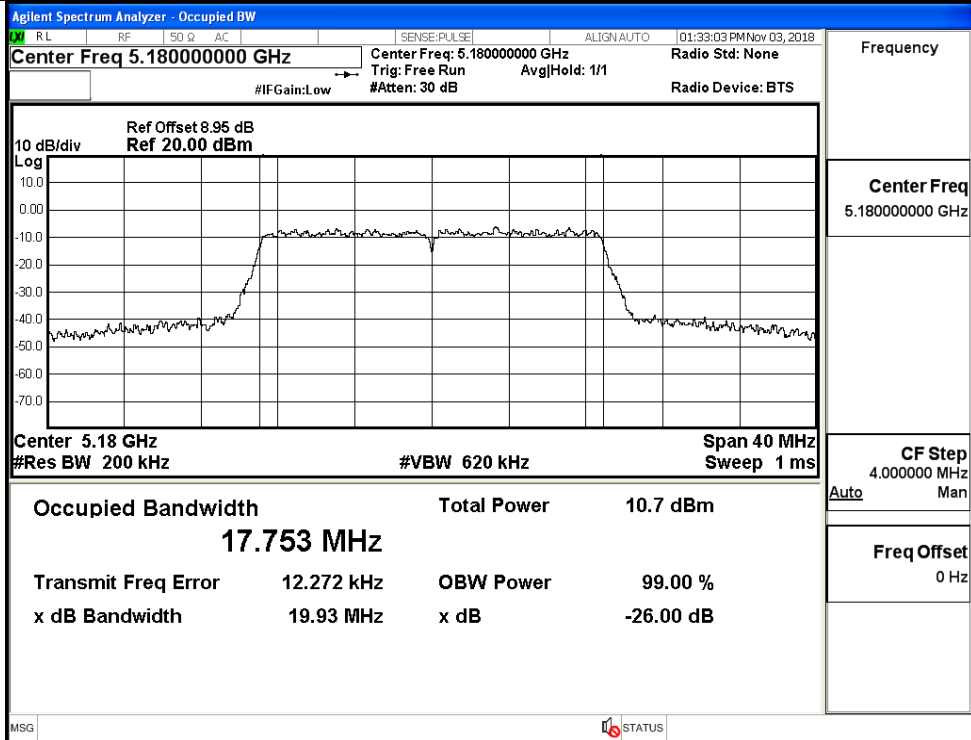


IEEE 802.11a / Channel 40 / 5200 MHz

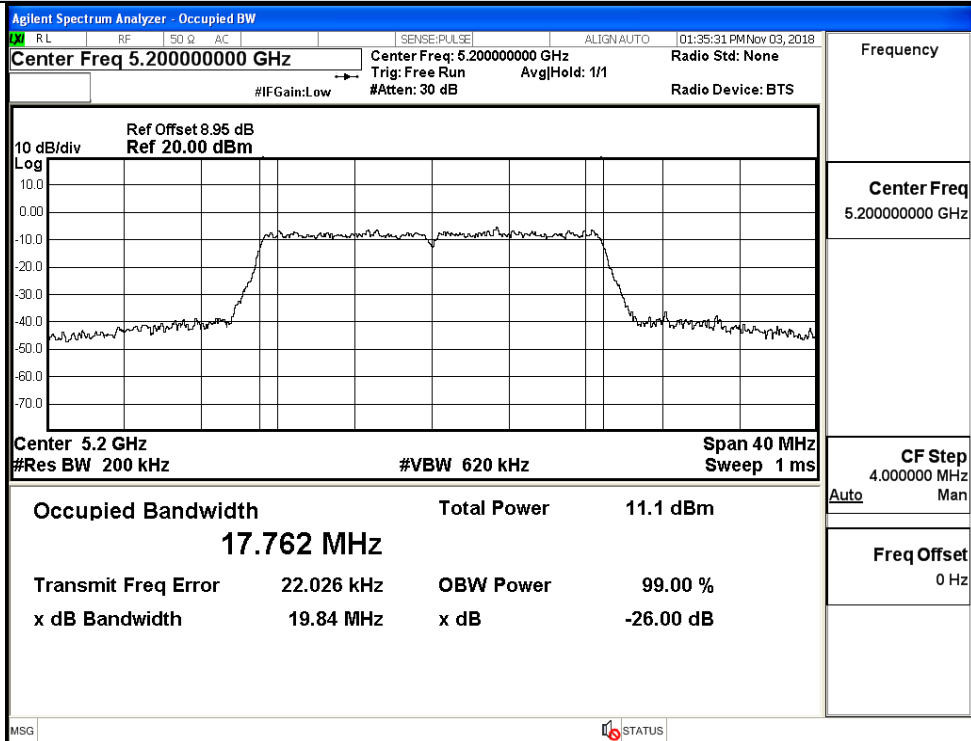


IEEE 802.11a / Channel 48 / 5240 MHz

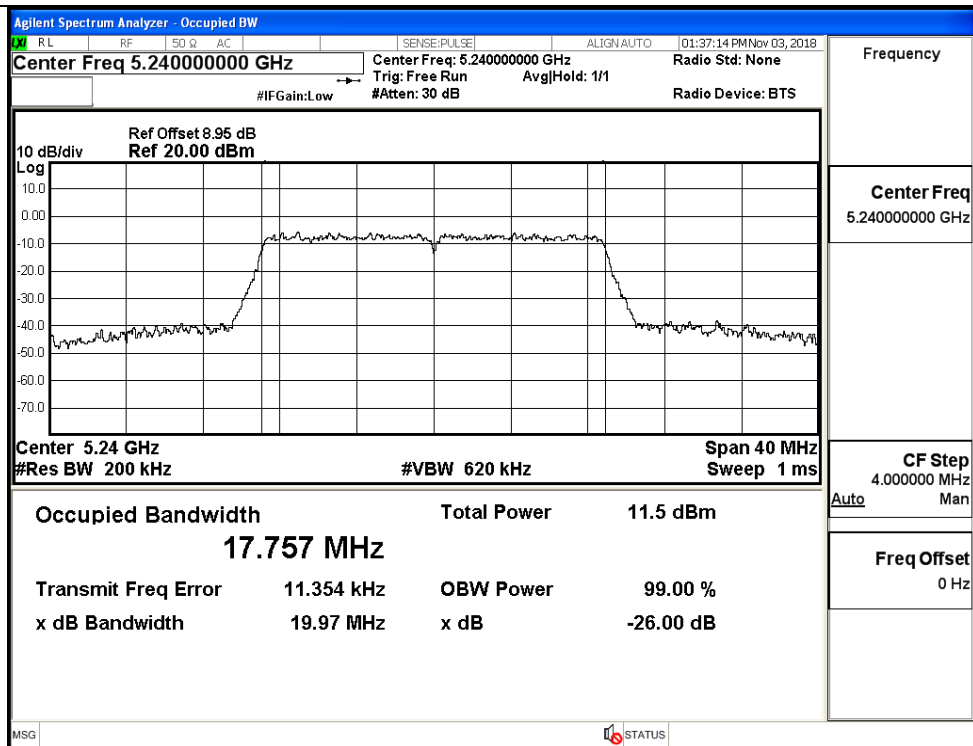
99% and 26dB Bandwidth



IEEE 802.11n HT20 / Channel 36 / 5180 MHz

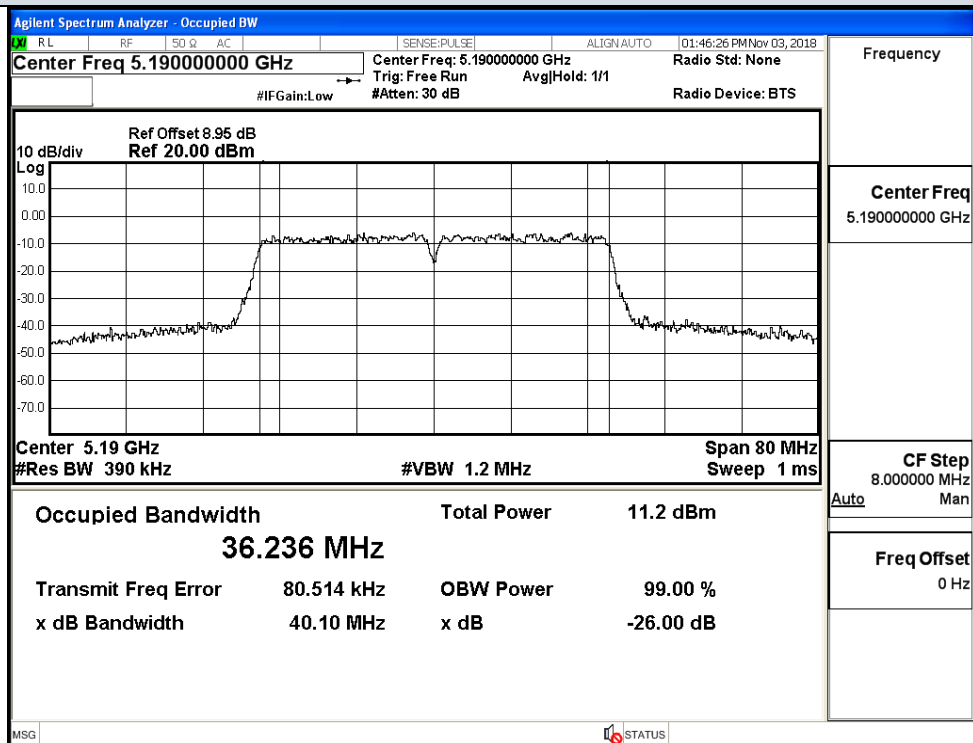


IEEE 802.11n HT20 / Channel 40 / 5200 MHz

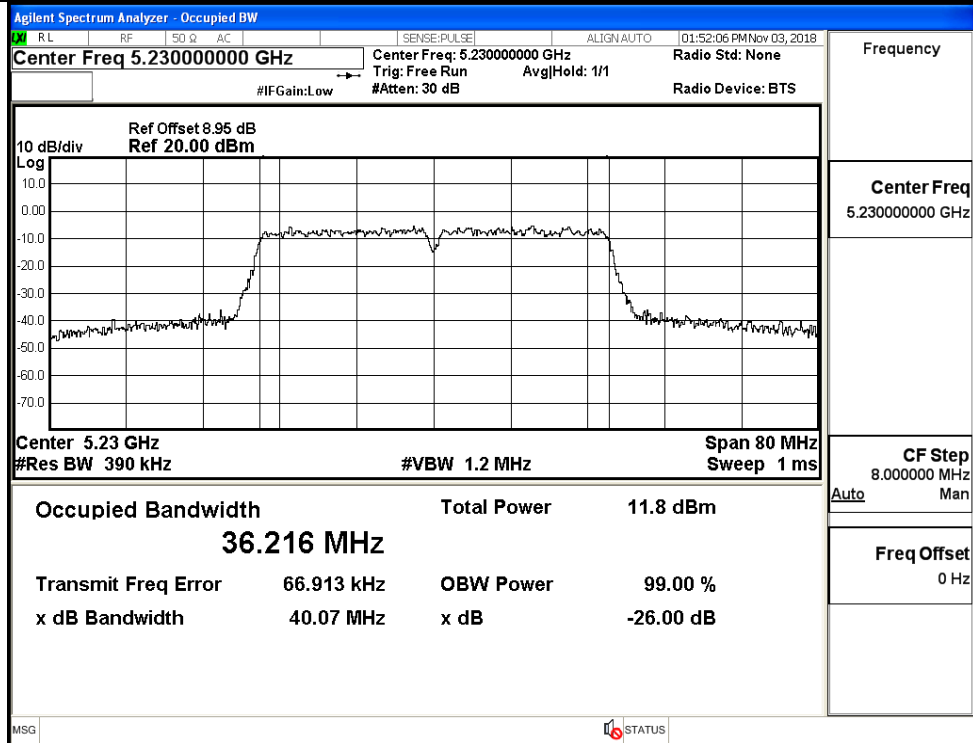


IEEE 802.11n HT20 / Channel 48 / 5240 MHz

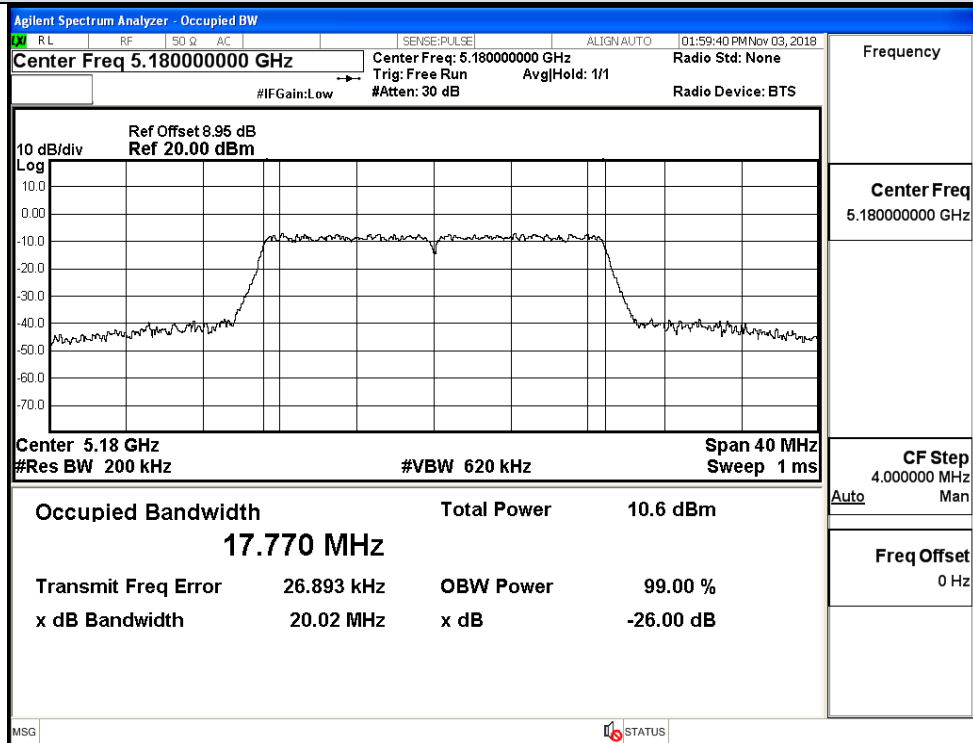
99% and 26dB Bandwidth



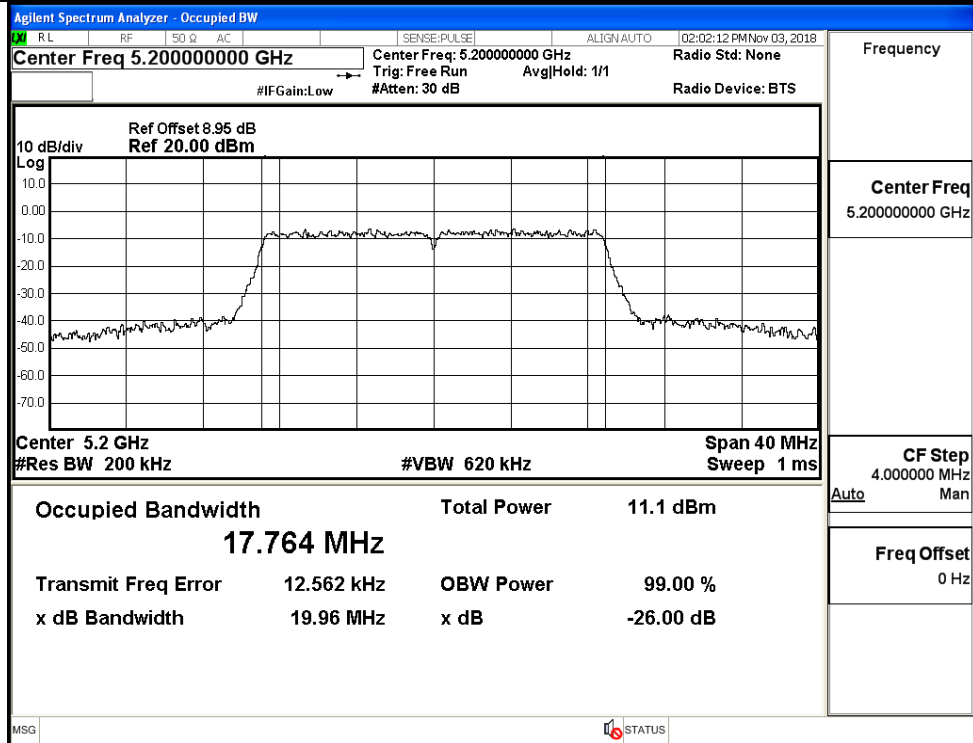
IEEE 802.11n HT40 / Channel 38 / 5190 MHz



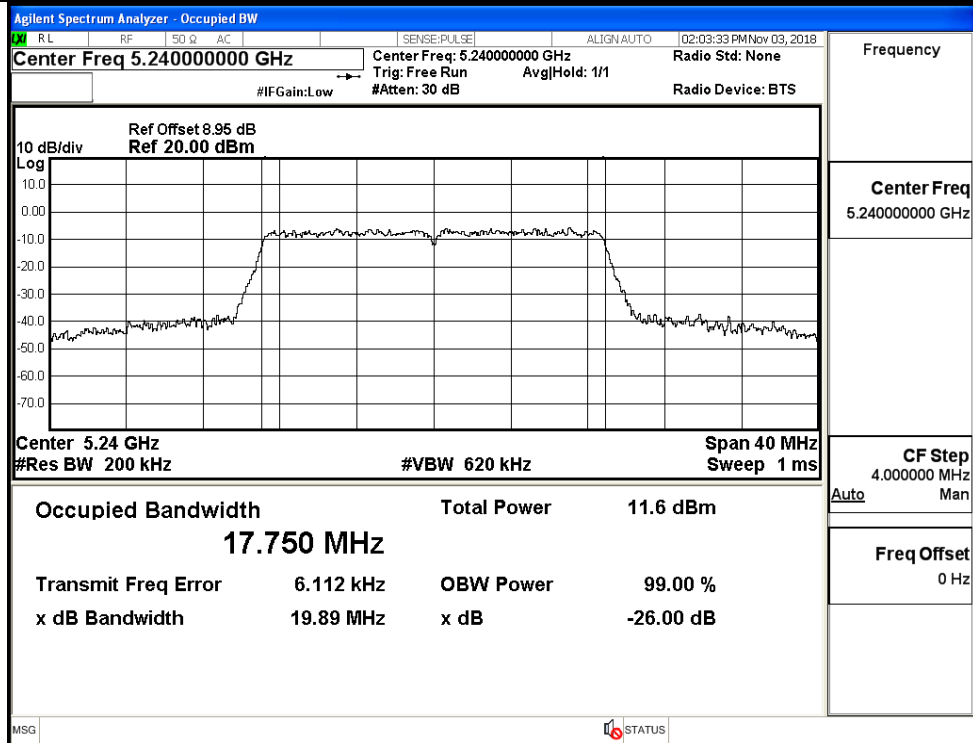
IEEE 802.11n HT40 / Channel 46 / 5230 MHz



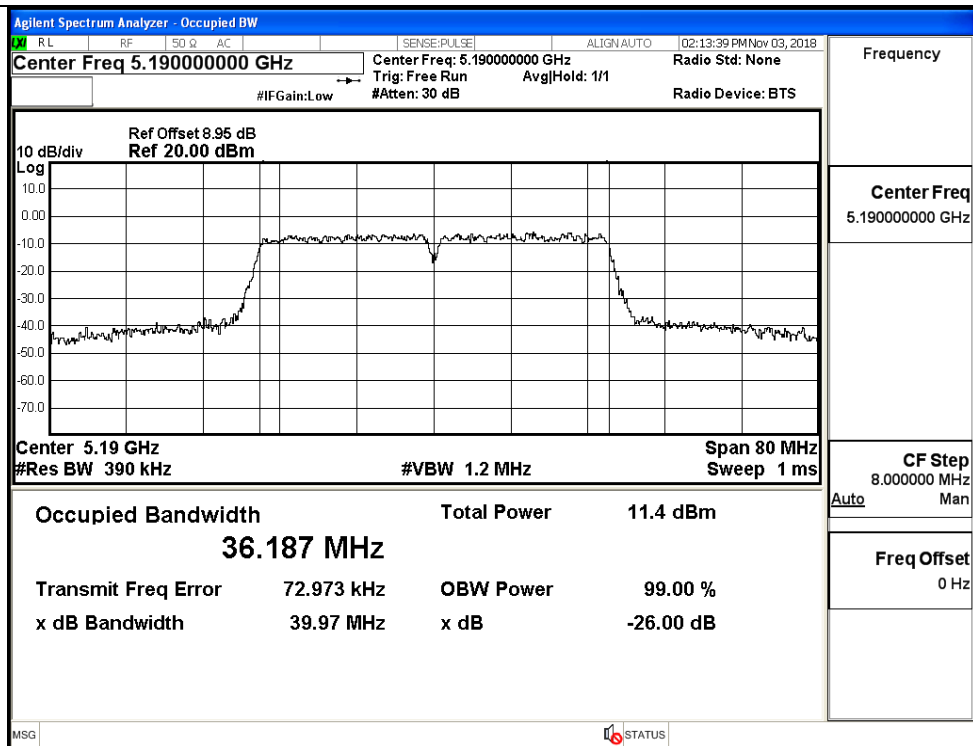
IEEE 802.11ac VHT20 / Channel 36 / 5180 MHz



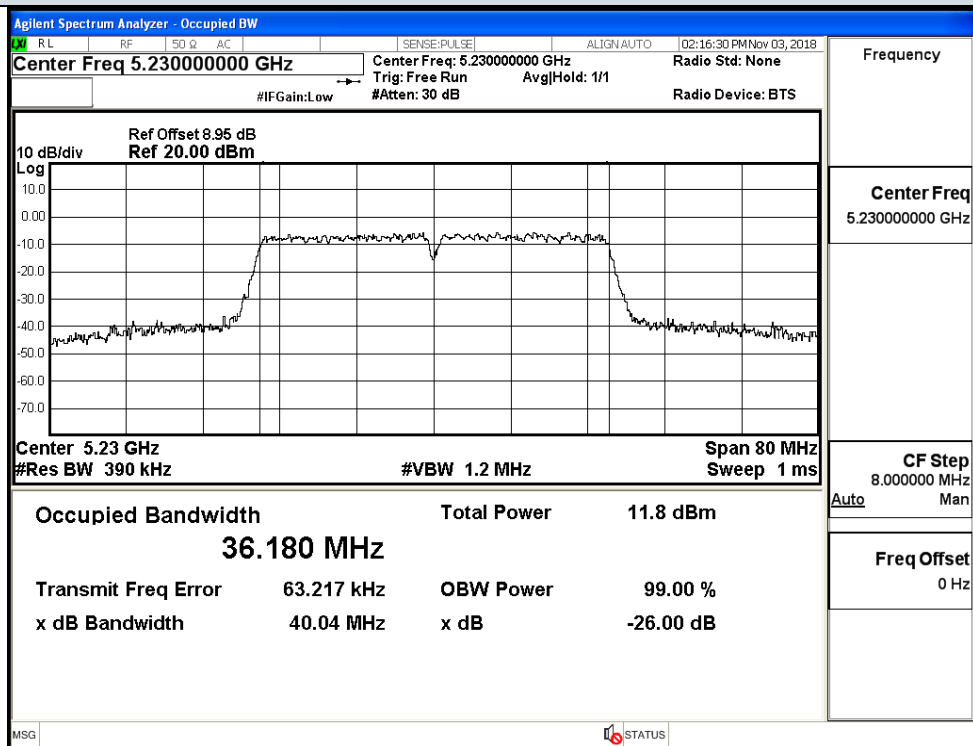
IEEE 802.11ac VHT20 / Channel 40 / 5200 MHz



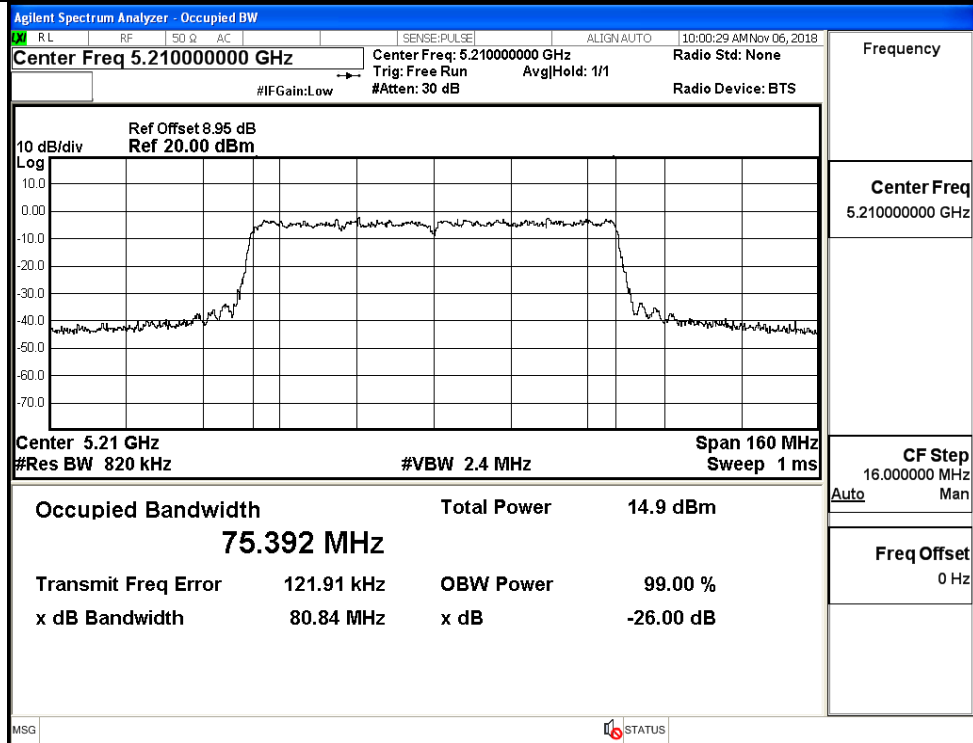
IEEE 802.11ac VHT20 / Channel 48 / 5240 MHz



IEEE 802.11ac VHT40 / Channel 38 / 5190 MHz



IEEE 802.11ac VHT40 / Channel 46 / 5230 MHz



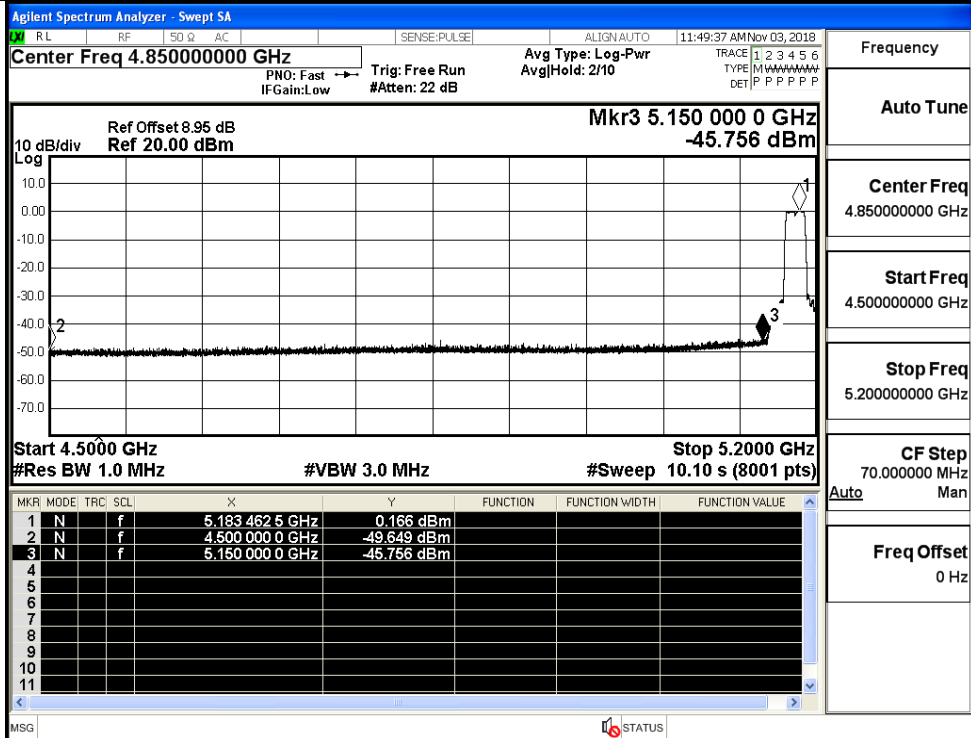
IEEE 802.11ac VHT80 / Channel 42 / 5210 MHz

D.5 Undesirable Emissions Measurement

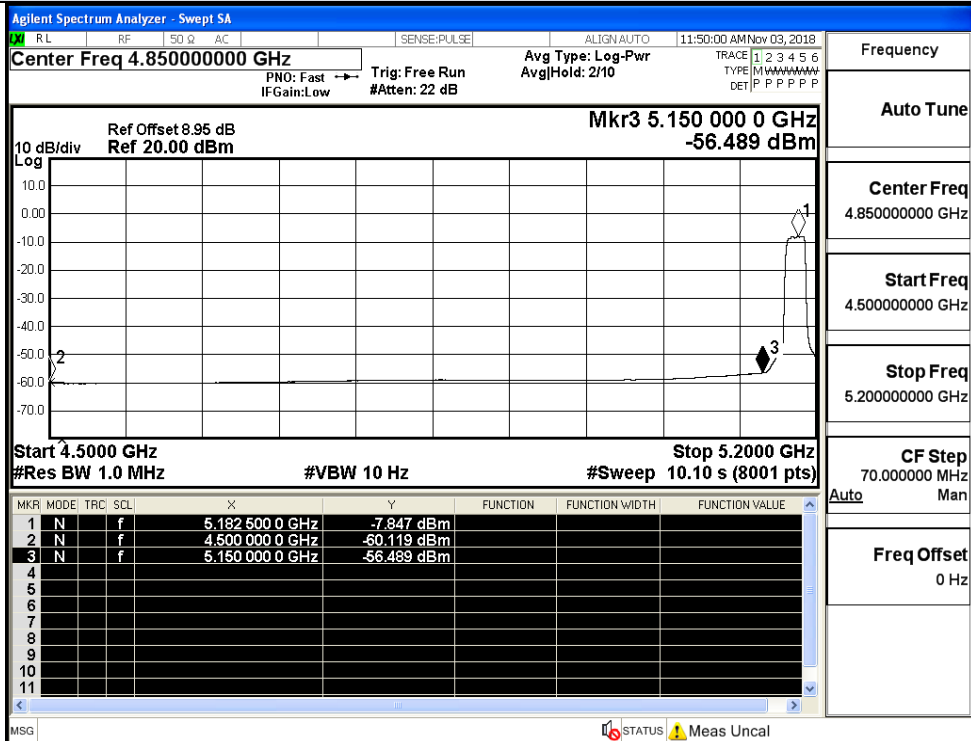
est Mode	Channel	Frequency (MHz)	Conducted Power (dBm)	Antenna Gain (dBi)	Ground Reflection Factor (dB)	Covert Radiated E Level At 3m (dBuV/m)	Detector	Limit (dBuV/m)
11A	36	4500.0	-49.649	3.50	0	49.079	Peak	68.20
		4500.0	-60.119	3.50	0	38.609	Average	54.00
		5150.0	-45.756	3.50	0	52.972	Peak	68.20
		5150.0	-56.499	3.50	0	42.229	Average	54.00
	48	5350.0	-48.368	3.50	0	50.360	Peak	68.20
		5350.0	-59.329	3.50	0	39.399	Average	54.00
		5460.0	-48.182	3.50	0	50.546	Peak	68.20
		5460.0	-60.191	3.50	0	38.537	Average	54.00
11N20 SISO	36	4500.0	-49.774	3.50	0	48.954	Peak	68.20
		4500.0	-60.100	3.50	0	38.628	Average	54.00
		5150.0	-46.843	3.50	0	51.885	Peak	68.20
		5150.0	-56.437	3.50	0	42.291	Average	54.00
	48	5350.0	-48.374	3.50	0	50.354	Peak	68.20
		5350.0	-59.353	3.50	0	39.375	Average	54.00
		5460.0	-49.636	3.50	0	49.092	Peak	68.20
		5460.0	-60.216	3.50	0	38.512	Average	54.00
11N40 SISO	38	4500.0	-50.608	3.50	0	48.120	Peak	68.20
		4500.0	-60.128	3.50	0	38.600	Average	54.00
		5150.0	-39.128	3.50	0	59.600	Peak	68.20
		5150.0	-52.090	3.50	0	46.638	Average	54.00
	46	5350.0	-48.223	3.50	0	50.505	Peak	68.20
		5350.0	-59.150	3.50	0	39.578	Average	54.00
		5460.0	-49.743	3.50	0	48.985	Peak	68.20
		5460.0	-59.924	3.50	0	38.804	Average	54.00
11AC20 SISO	36	4500.0	-49.834	3.50	0	48.894	Peak	68.20
		4500.0	-60.110	3.50	0	38.618	Average	54.00
		5150.0	-45.304	3.50	0	53.424	Peak	68.20
		5150.0	-56.541	3.50	0	42.187	Average	54.00
	48	4500.0	-49.262	3.50	0	49.466	Peak	68.20
		4500.0	-59.327	3.50	0	39.401	Average	54.00
		5150.0	-49.596	3.50	0	49.132	Peak	68.20
		5150.0	-60.205	3.50	0	38.523	Average	54.00
11AC40 SISO	38	4500.0	-50.277	3.50	0	48.451	Peak	68.20
		4500.0	-60.111	3.50	0	38.617	Average	54.00
		5150.0	-37.174	3.50	0	61.554	Peak	68.20
		5150.0	-51.561	3.50	0	47.167	Average	54.00
	46	5350.0	-49.962	3.50	0	48.766	Peak	68.20
		5350.0	-59.164	3.50	0	39.564	Average	54.00
		5460.0	-49.749	3.50	0	48.979	Peak	68.20
		5460.0	-59.903	3.50	0	38.825	Average	54.00
11AC80 SISO	42	4500.0	-50.573	3.50	0	48.155	Peak	68.20
		5150.0	-60.023	3.50	0	38.705	Average	54.00
		4500.0	-41.640	3.50	0	57.088	Peak	68.20
		5150.0	-50.735	3.50	0	47.993	Average	54.00
		5350.0	-47.251	3.50	0	51.477	Peak	68.20

		5460.0	-57.595	3.50	0	41.133	Average	54.00
		5350.0	-48.764	3.50	0	49.964	Peak	68.20
		5460.0	-58.522	3.50	0	40.206	Average	54.00

Undesirable Emissions Measurement

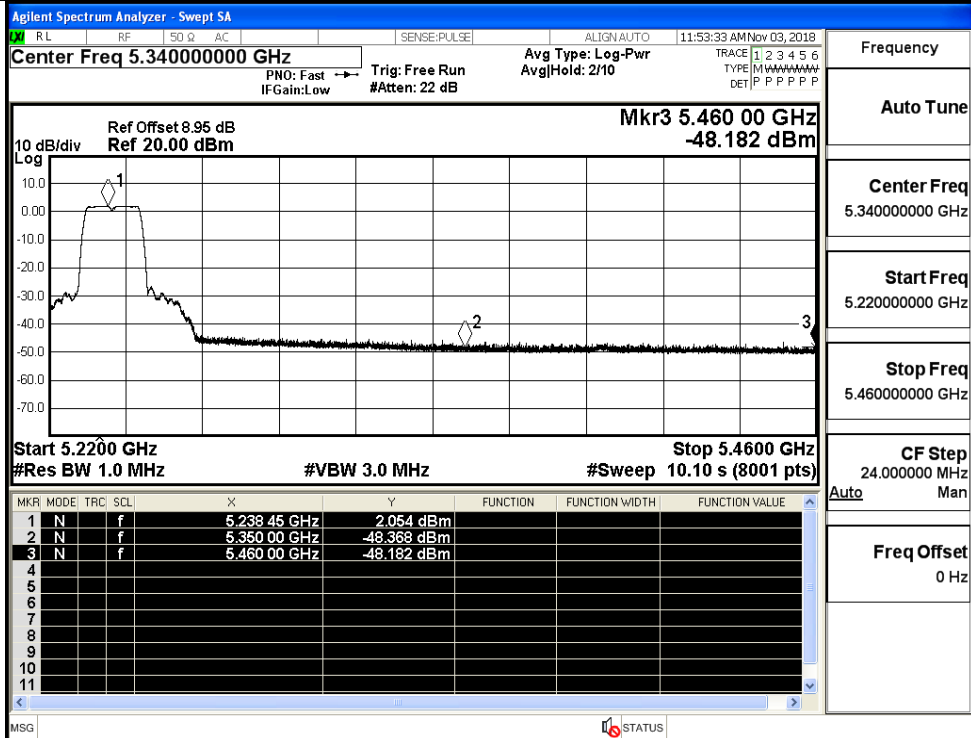


IEEE 802.11a / Channel 36 / 5180 MHz / Peak

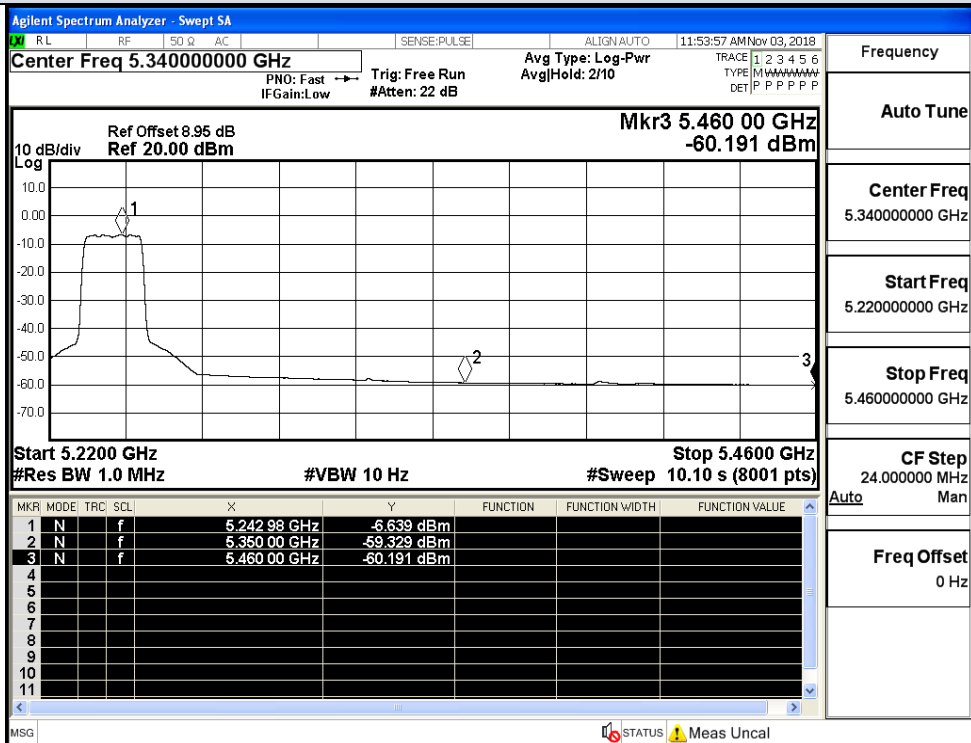


IEEE 802.11a / Channel 36 / 5180 MHz / Average

Undesirable Emissions Measurement

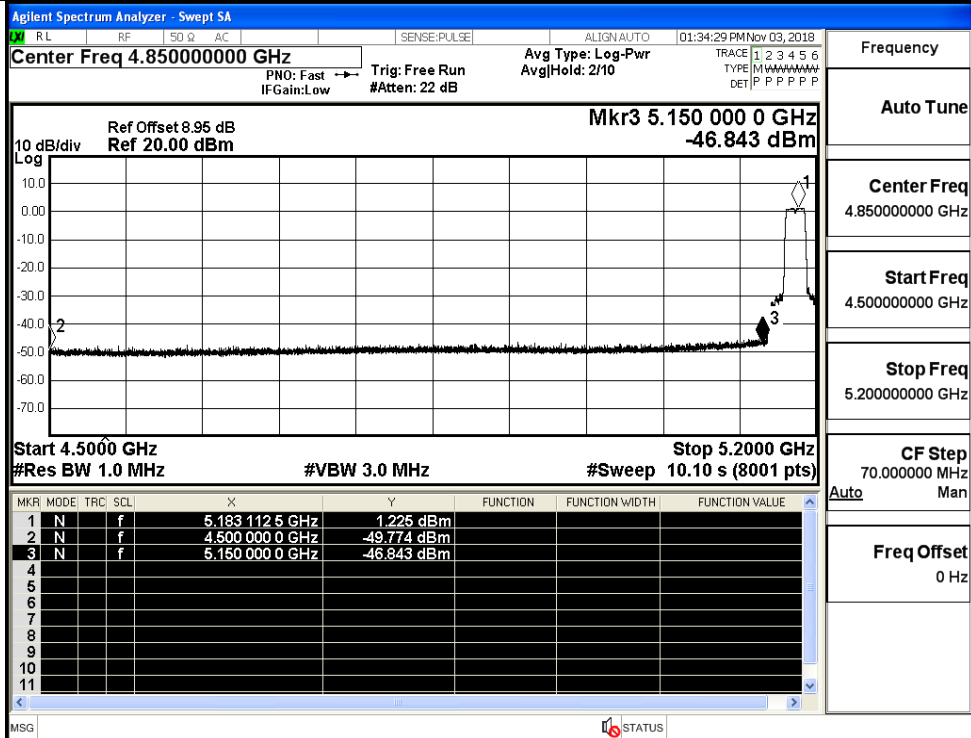


IEEE 802.11a / Channel 48 / 5240 MHz / Peak

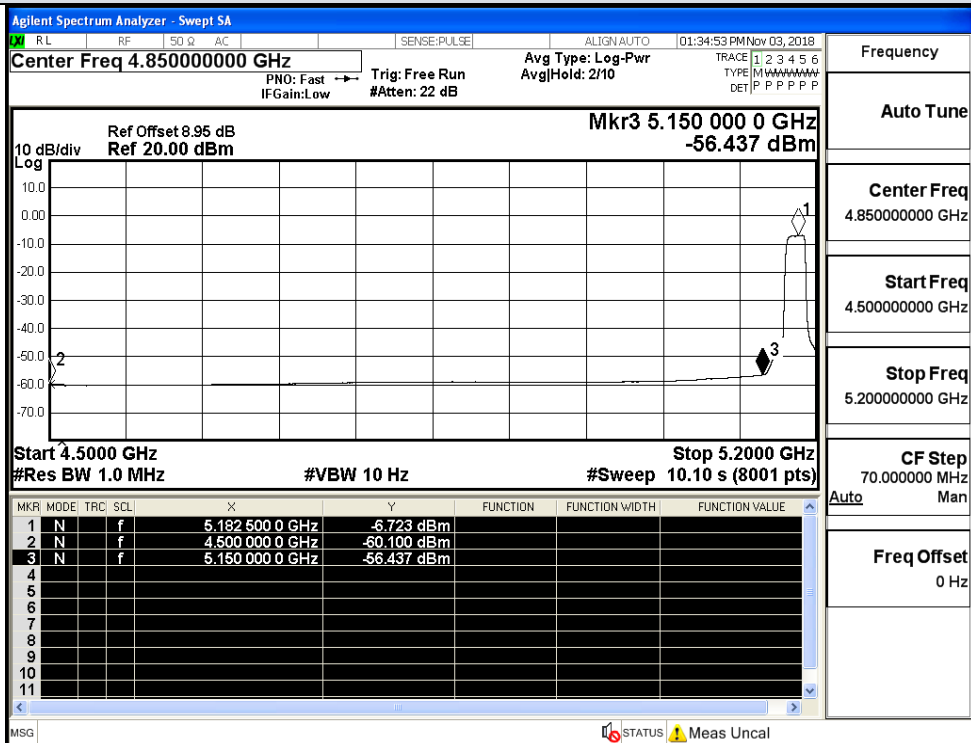


IEEE 802.11a / Channel 48 / 5240 MHz / Average

Undesirable Emissions Measurement

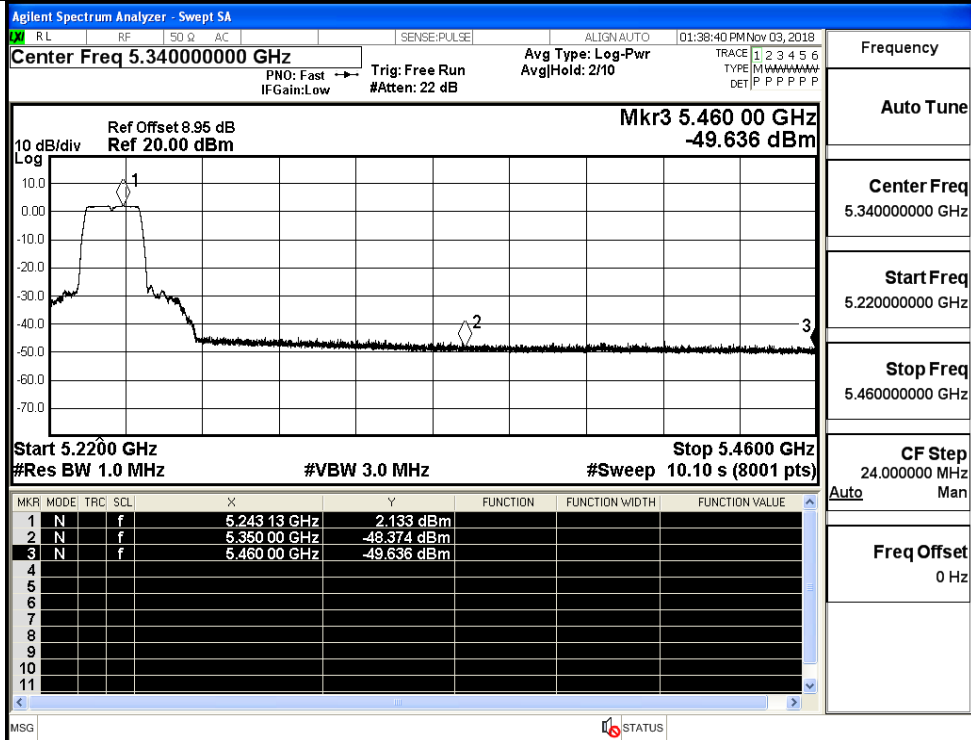


IEEE 802.11n HT20 / Channel 36 / 5180 MHz / Peak

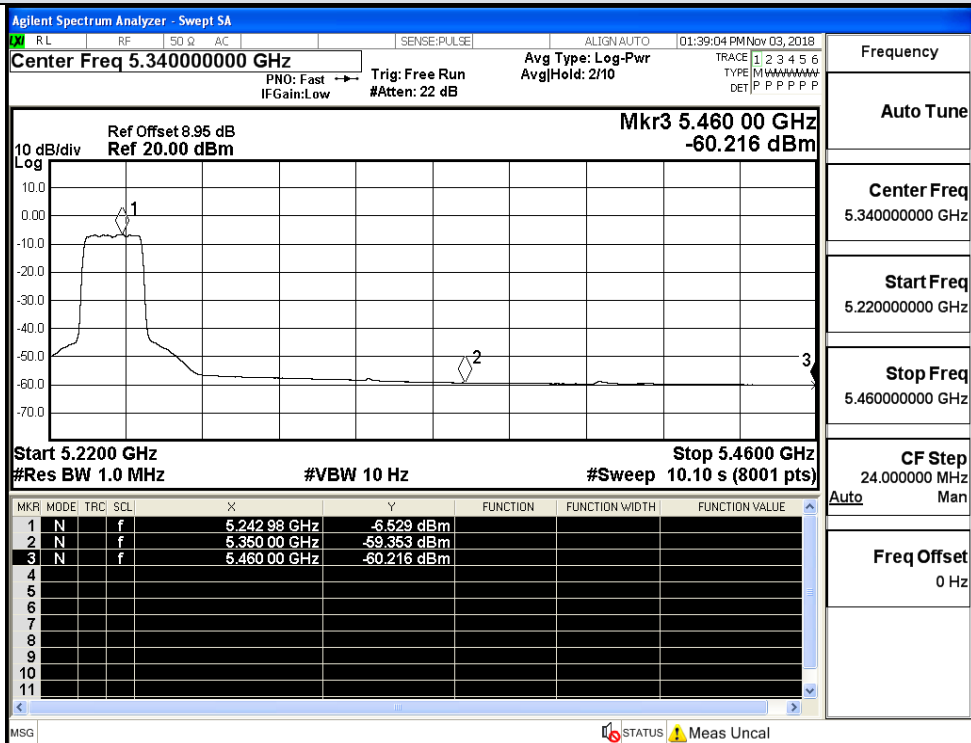


IEEE 802.11n HT20 / Channel 36 / 5180 MHz / Average

Undesirable Emissions Measurement

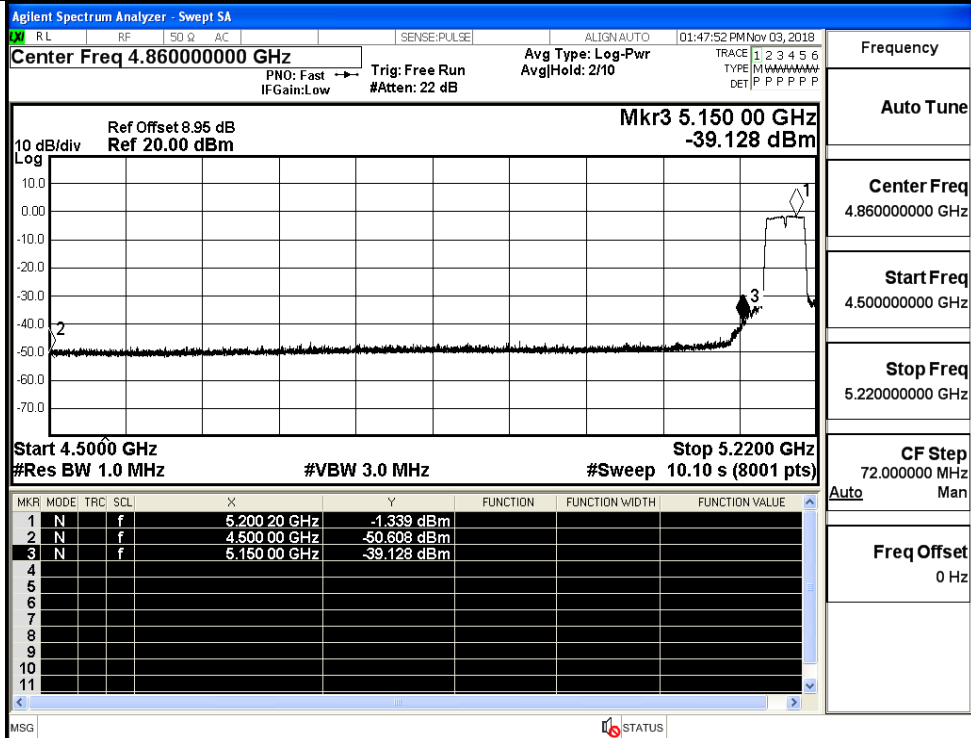


IEEE 802.11n HT20 / Channel 48 / 5240 MHz / Peak

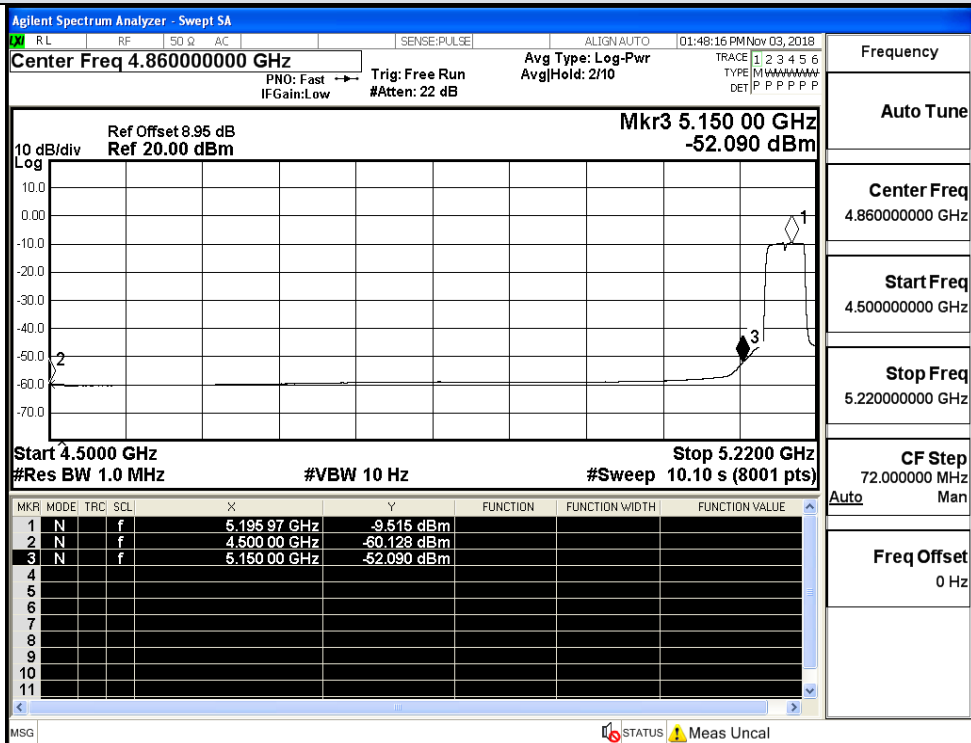


IEEE 802.11n HT20 / Channel 48 / 5240 MHz / Average

Undesirable Emissions Measurement

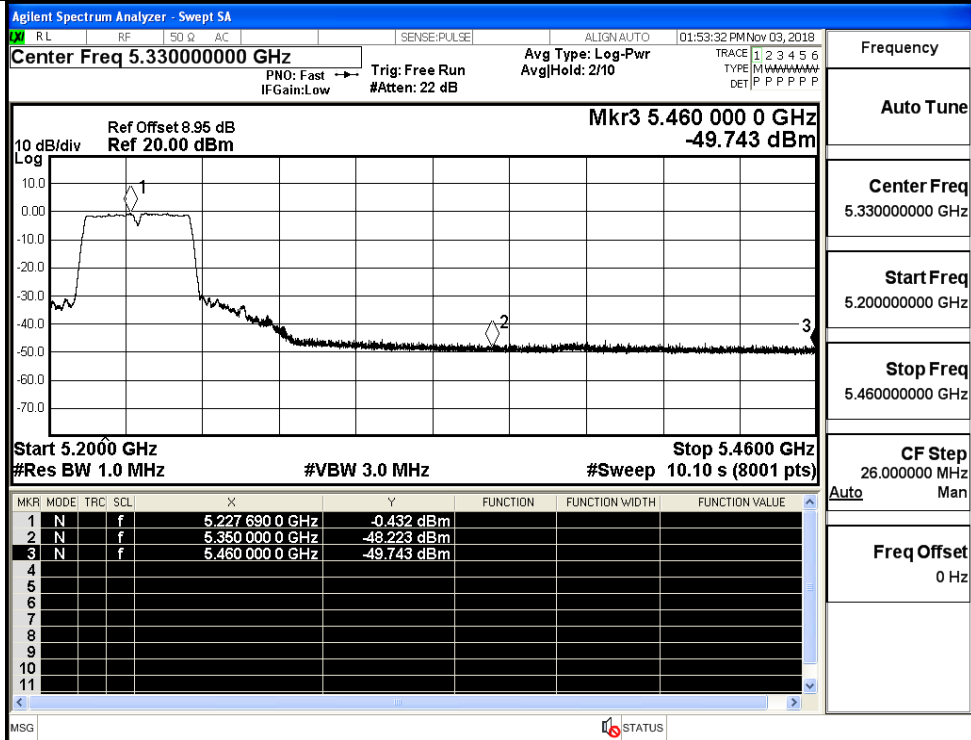


IEEE 802.11n HT40 / Channel 36 / 5180 MHz / Peak

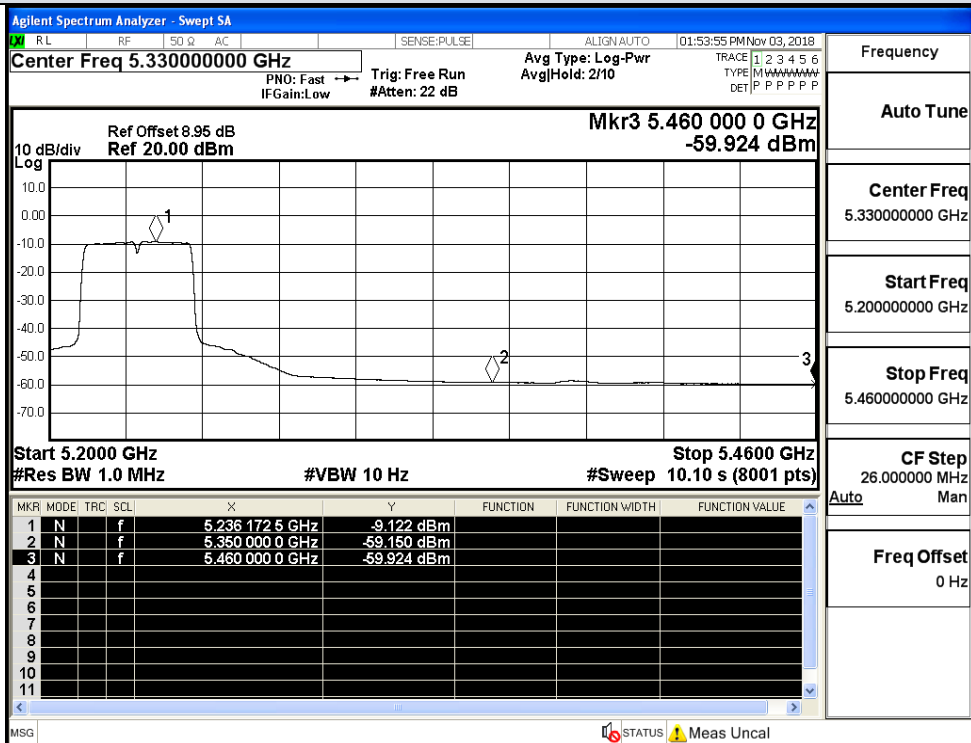


IEEE 802.11n HT40 / Channel 36 / 5180 MHz / Average

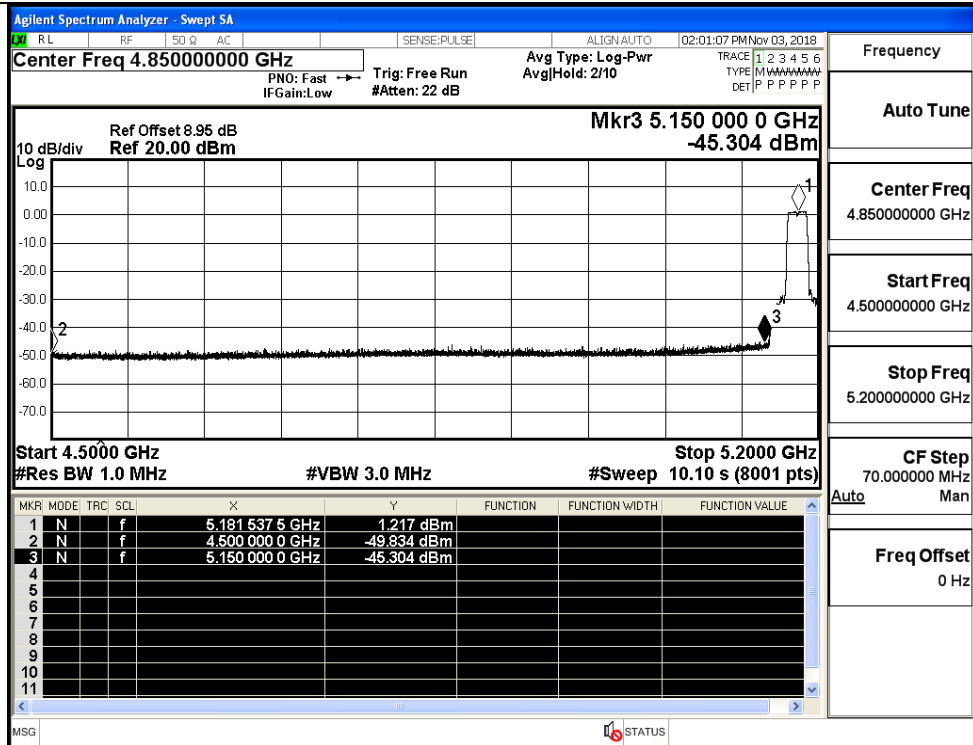
Undesirable Emissions Measurement



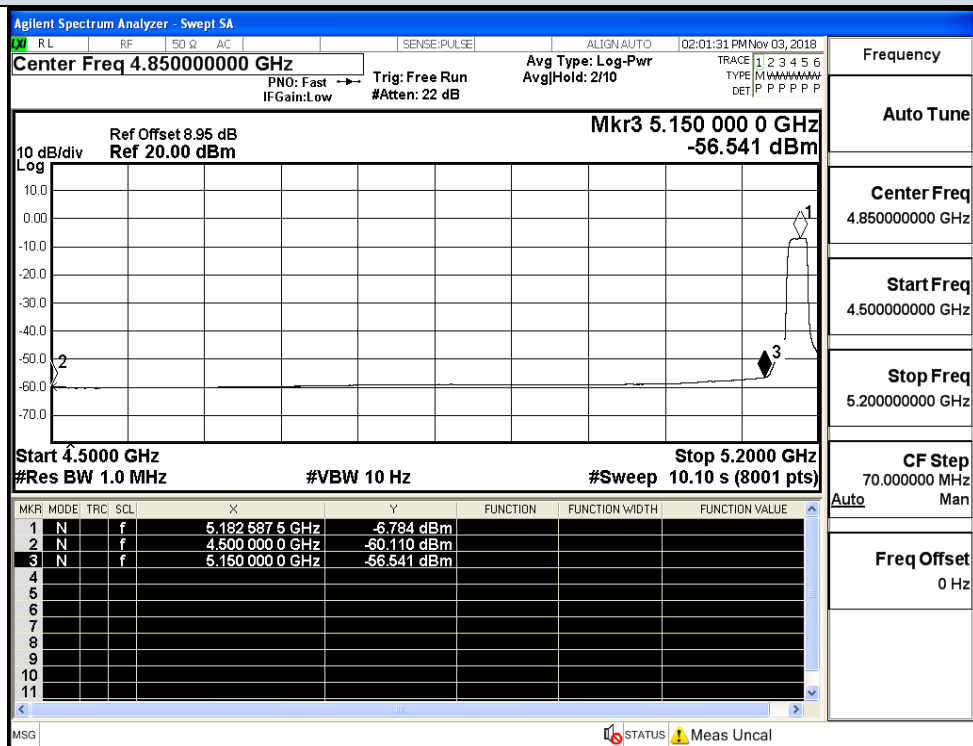
IEEE 802.11n HT40 / Channel 48 / 5230 MHz / Peak



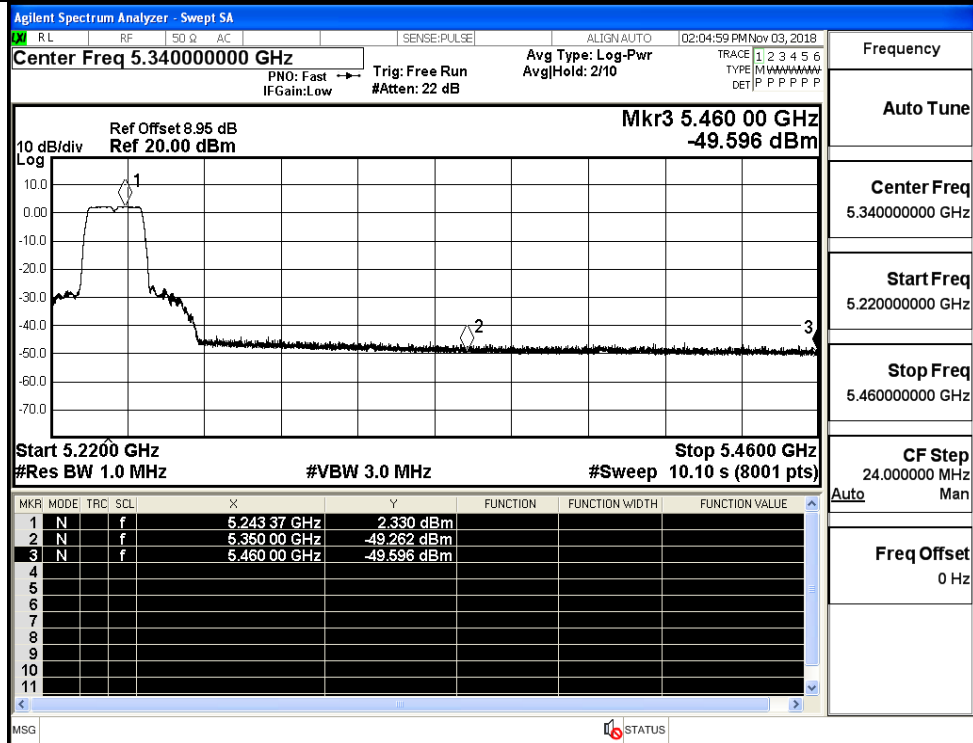
IEEE 802.11n HT40 / Channel 48 / 5230 MHz / Average



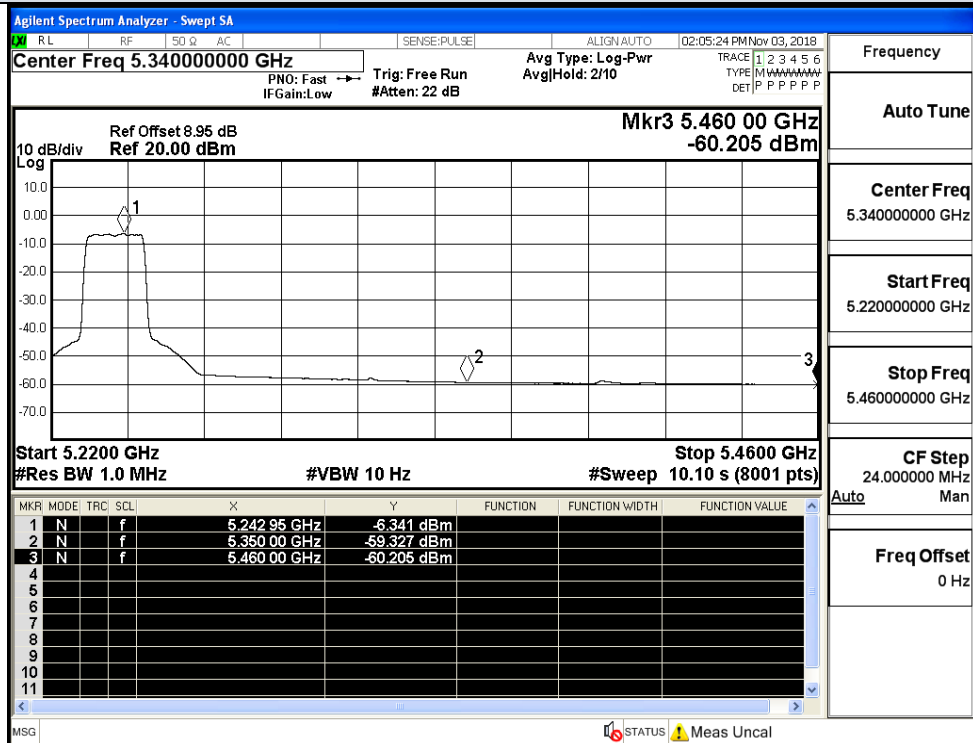
IEEE 802.11ac VHT20 / Channel 36 / 5180 MHz / Peak



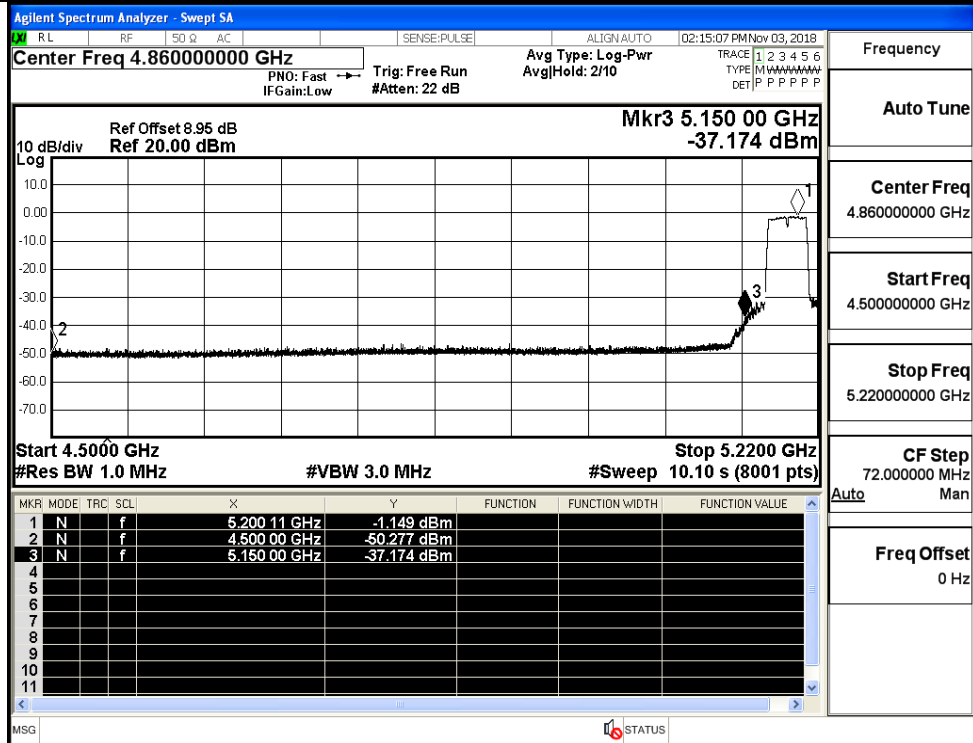
IEEE 802.11ac VHT20 / Channel 36 / 5180 MHz / Average



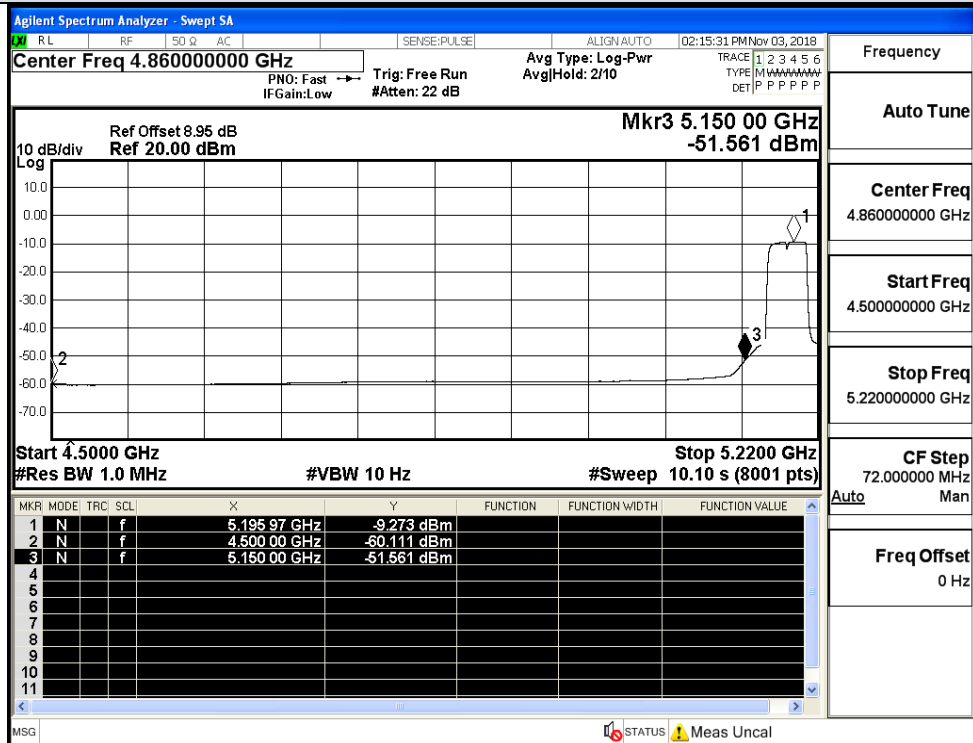
IEEE 802.11ac VHT20 / Channel 48 / 5240 MHz / Peak



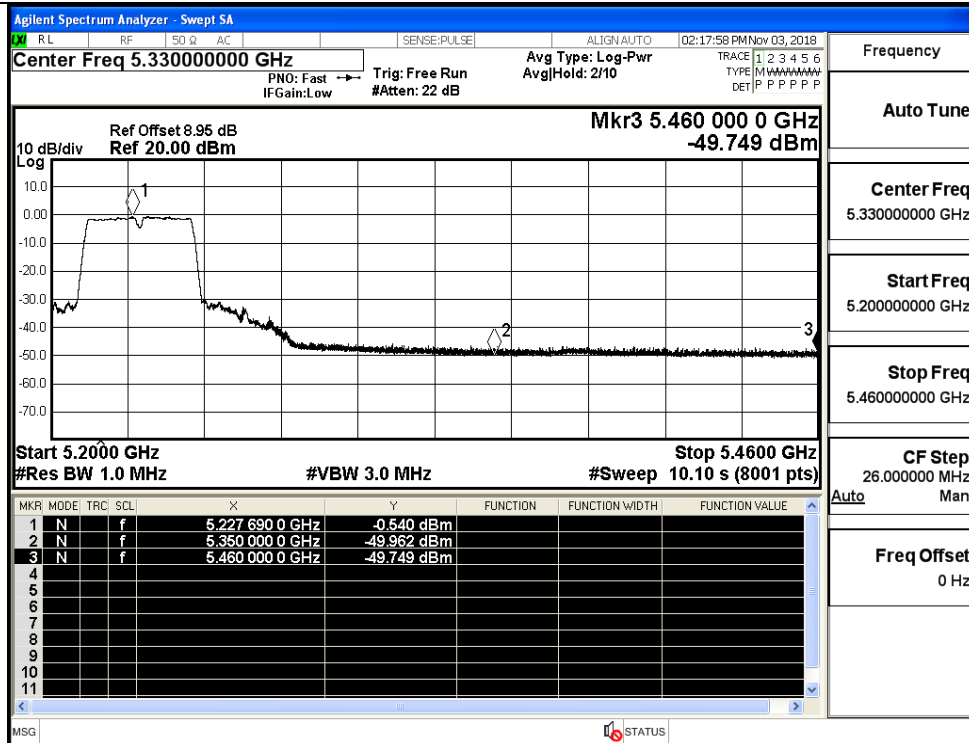
IEEE 802.11ac VHT20 / Channel 48 / 5240 MHz / Average



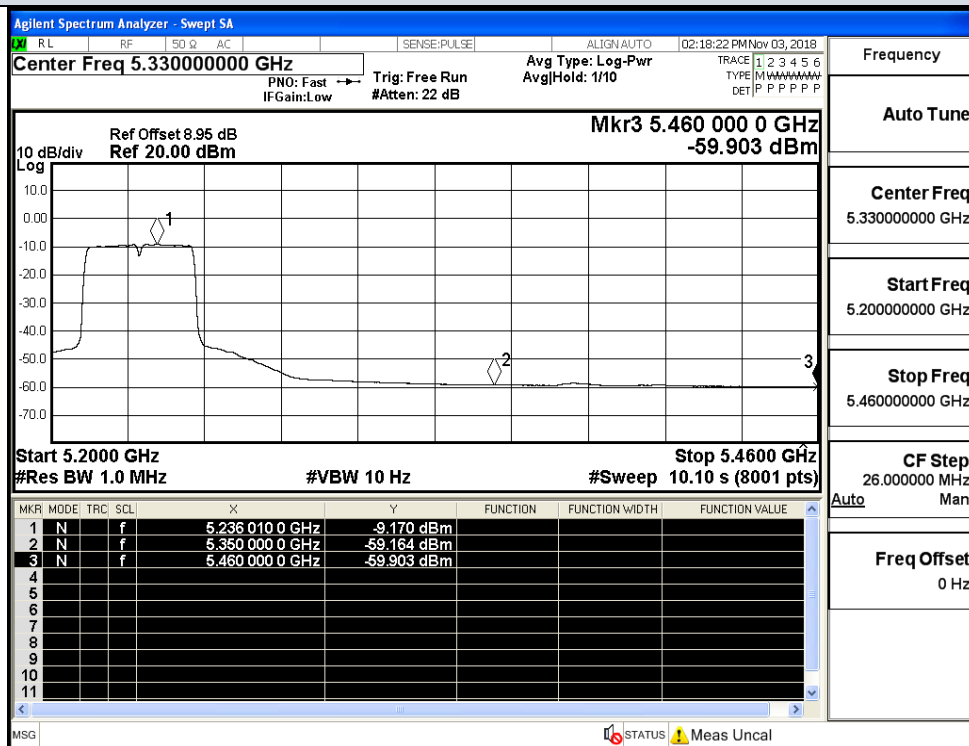
IEEE 802.11ac VHT40 / Channel 36 / 5180 MHz / Peak



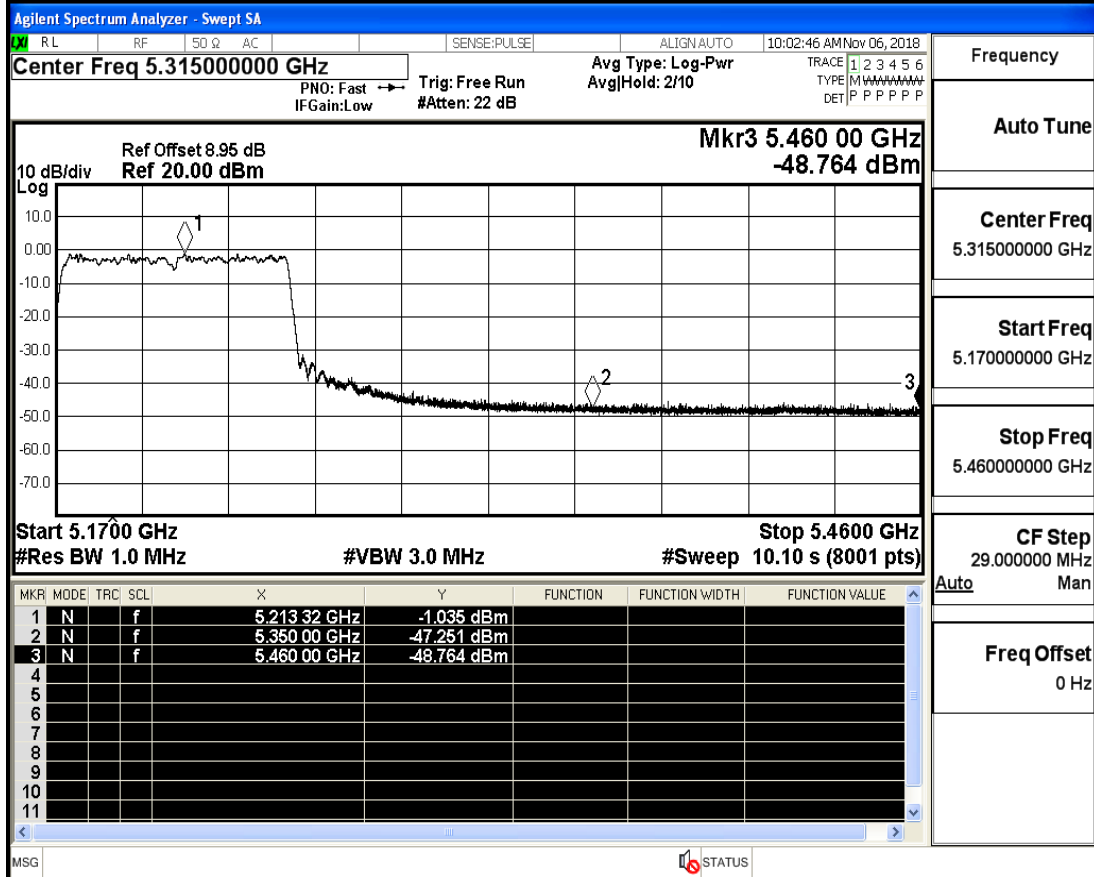
IEEE 802.11ac VHT40 / Channel 36 / 5180 MHz / Average



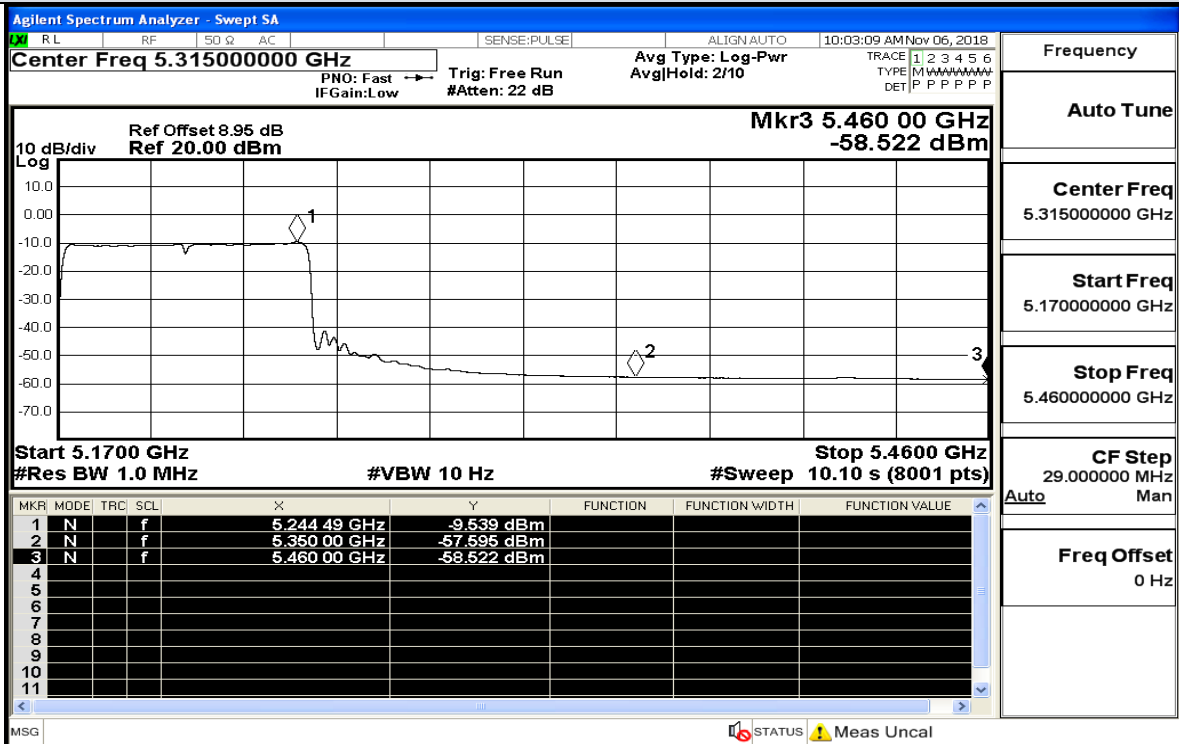
IEEE 802.11ac VHT40 / Channel 48 / 5230 MHz / Peak



IEEE 802.11ac VHT40 / Channel 48 / 5230 MHz / Average



IEEE 802.11ac VHT80 / Channel 42/ 5210 MHz / Peak



IEEE 802.11ac VHT80 / Channel 42 / 5210 MHz / Average