

## Appendix C

### RF Test Data for 5.8G WLAN (Conducted Measurement)

Product Name: WiFi mesh MT1

Trade Mark: KING SIGNAL

Test Model: MT1

#### Environmental Conditions

Temperature:	25 ° C
Relative Humidity:	50%
ATM Pressure:	100.0 kPa
Test Engineer:	Tom.Liu
Supervised by:	Wang.Chuang

#### C.1 Duty Cycle

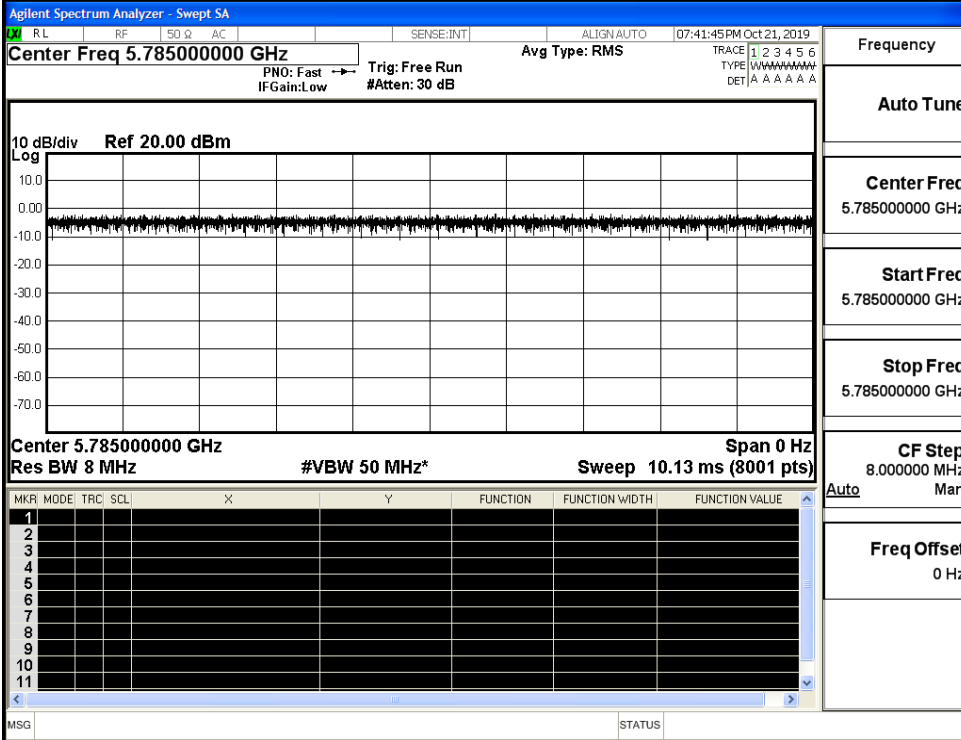
##### ANT\_3

Test Mode	Test Frequency (MHz)	Duty Cycle (%)	10log(1/x) Factor (dB)	1/B Minimum VBW(KHz)
11A	5785	100	0.00	0.01
11N20 SISO	5785	100	0.00	0.01
11N40 SISO	5755	100	0.00	0.01
11AC20 SISO	5785	100	0.00	0.01
11AC40 SISO	5755	100	0.00	0.01
11AC80 SISO	5775	100	0.00	0.01

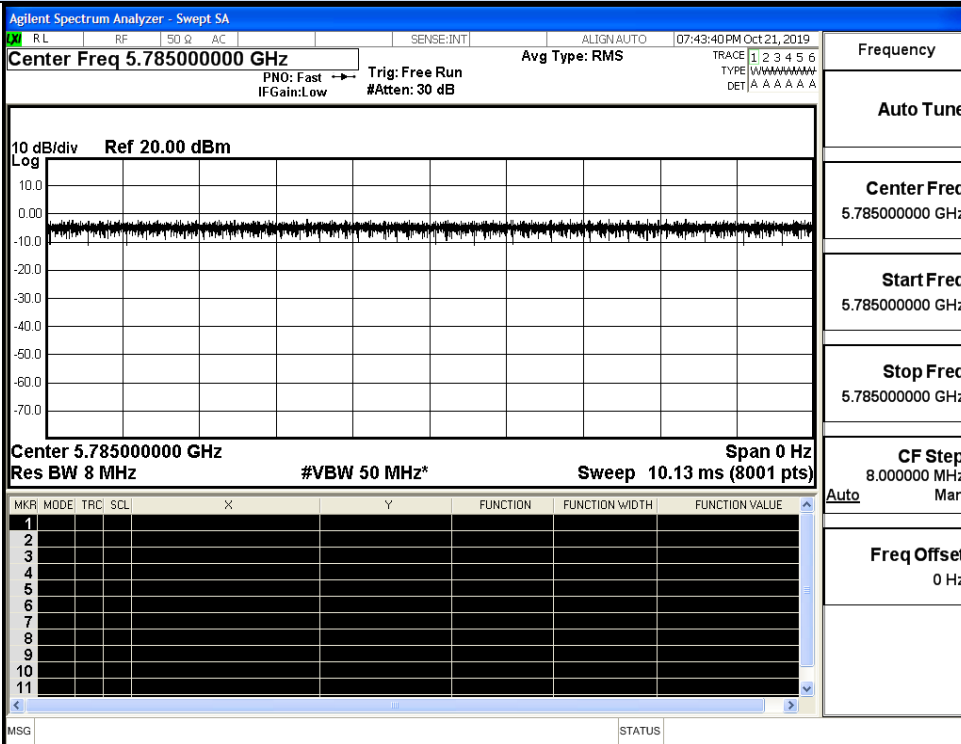
##### ANT\_4

Test Mode	Test Frequency (MHz)	Duty Cycle (%)	10log(1/x) Factor (dB)	1/B Minimum VBW(KHz)
11A	5785	100	0.00	0.01
11N20 SISO	5785	100	0.00	0.01
11N40 SISO	5755	100	0.00	0.01
11AC20 SISO	5785	100	0.00	0.01
11AC40 SISO	5755	100	0.00	0.01
11AC80 SISO	5775	100	0.00	0.01

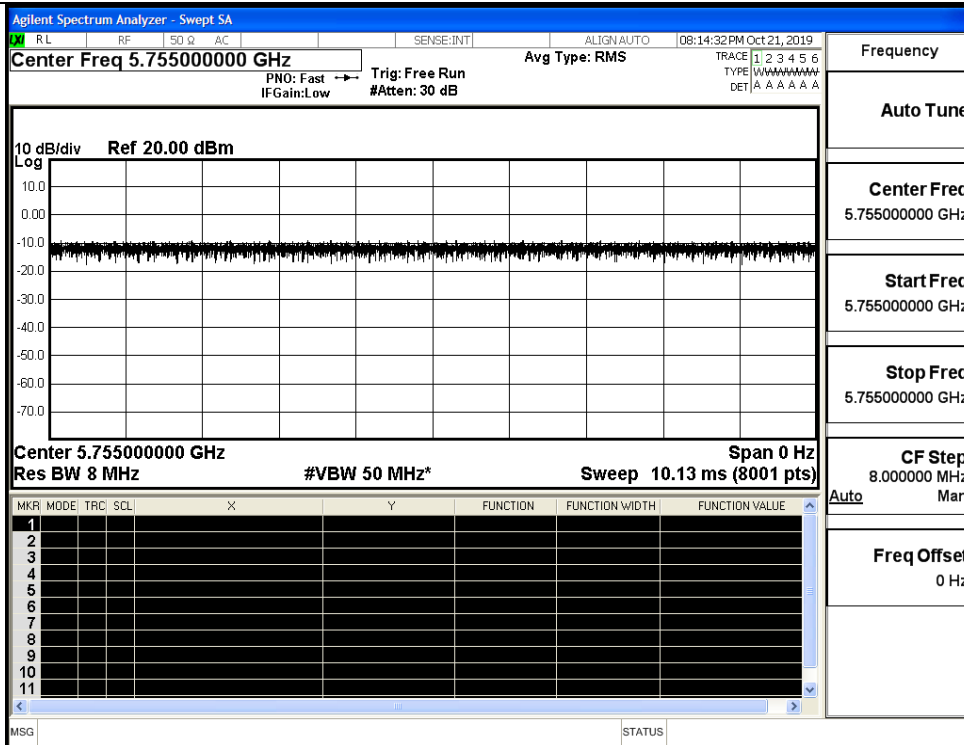
On Time and Duty Cycle\_ANT\_3



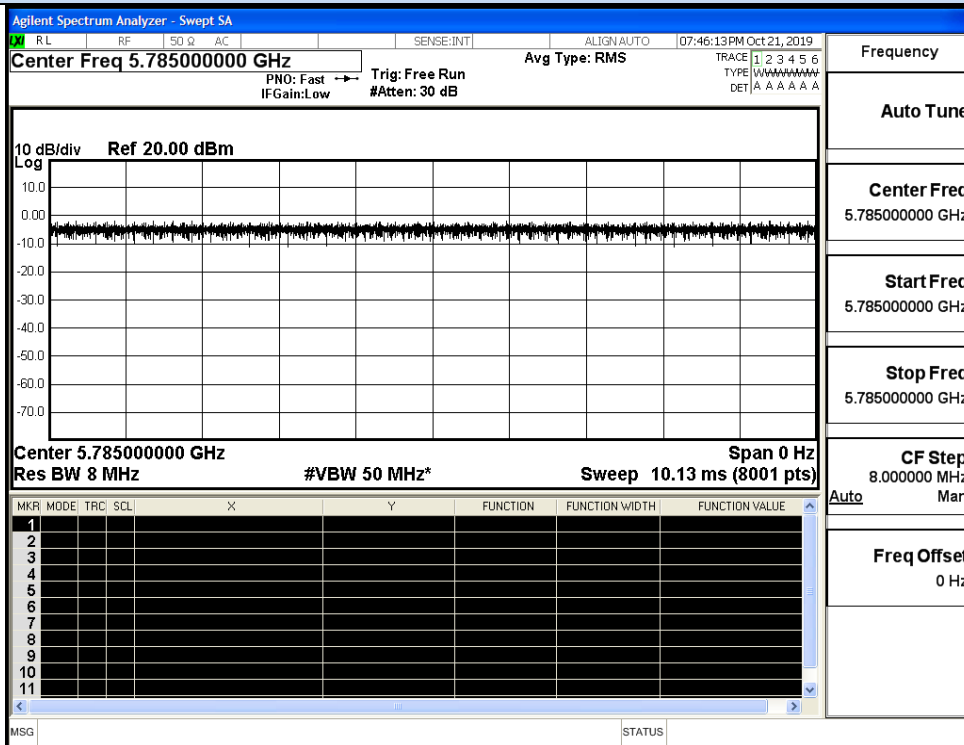
IEEE 802.11a



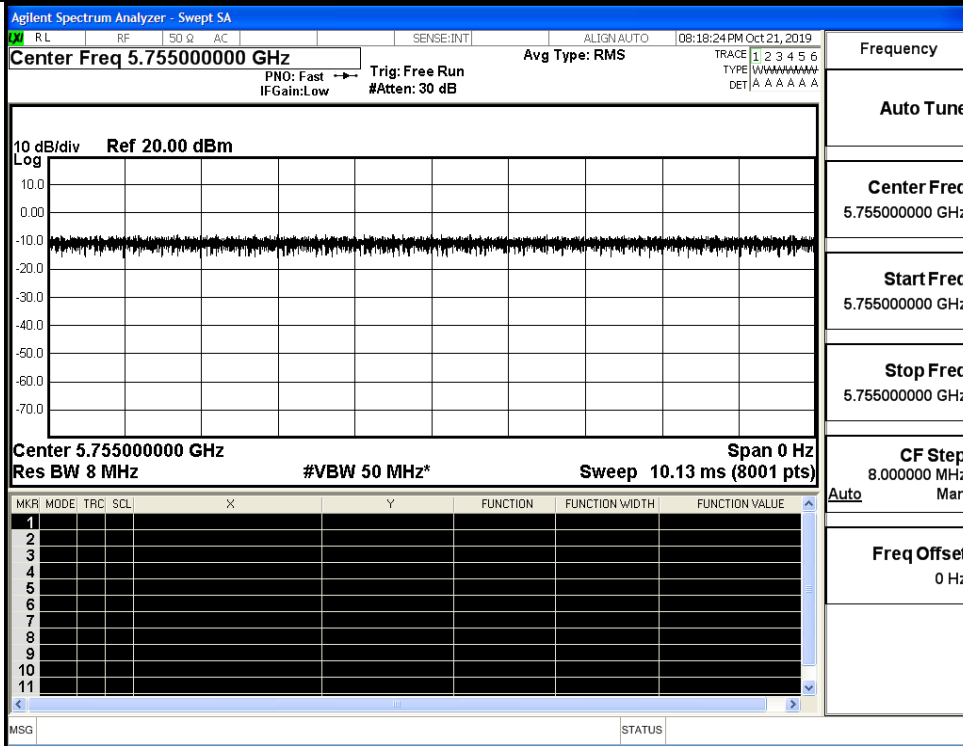
IEEE 802.11n HT20



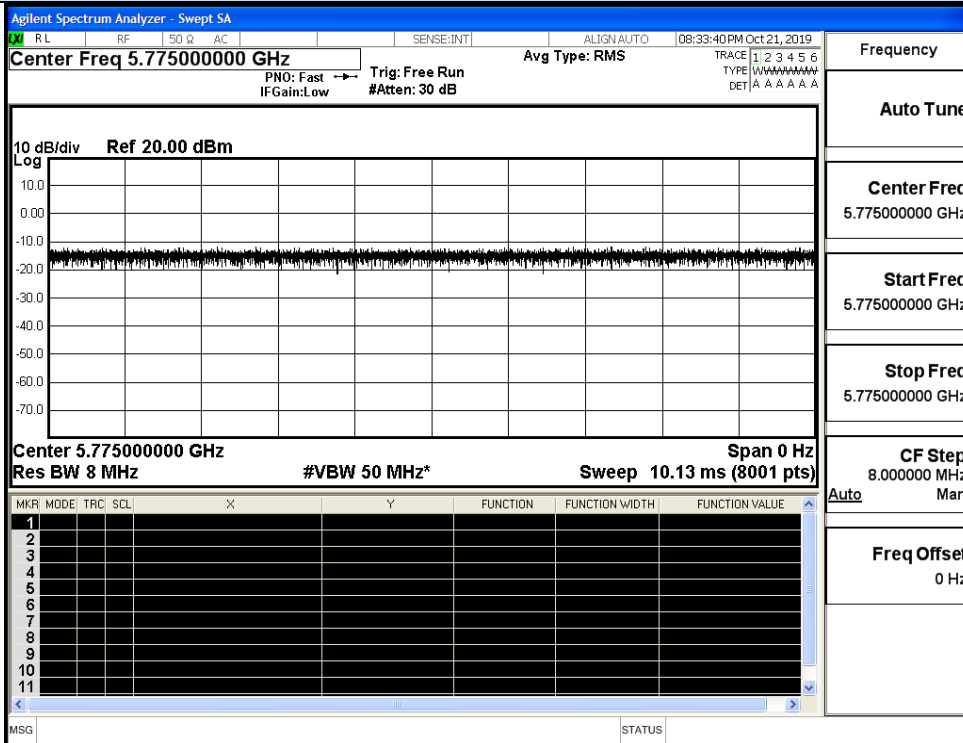
IEEE 802.11n HT40



IEEE 802.11AC20

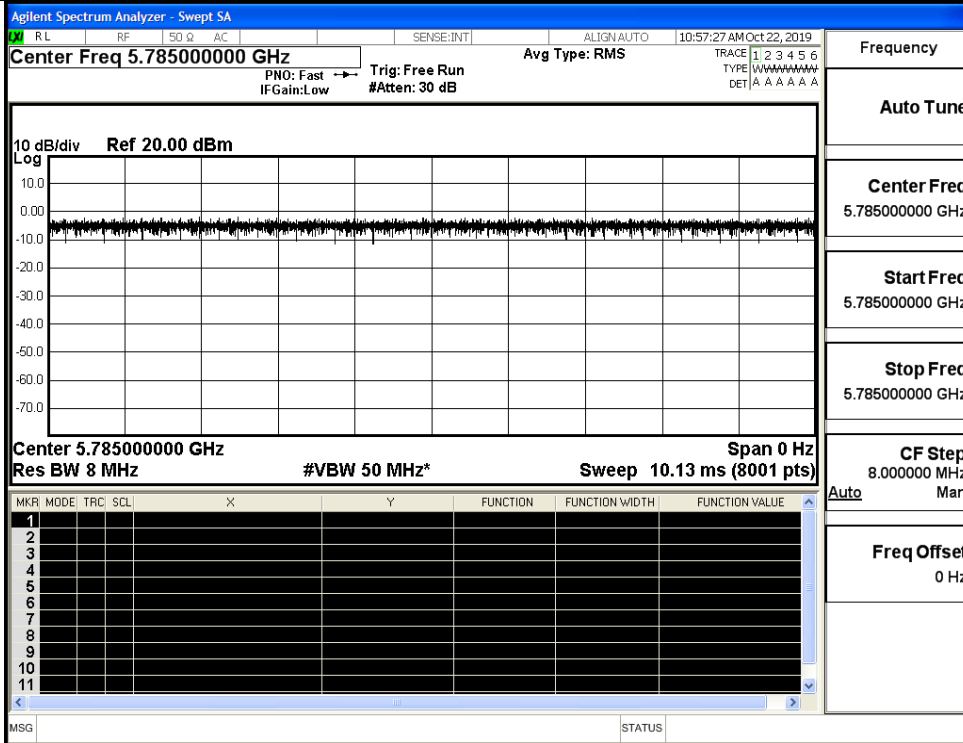


IEEE 802.11AC40

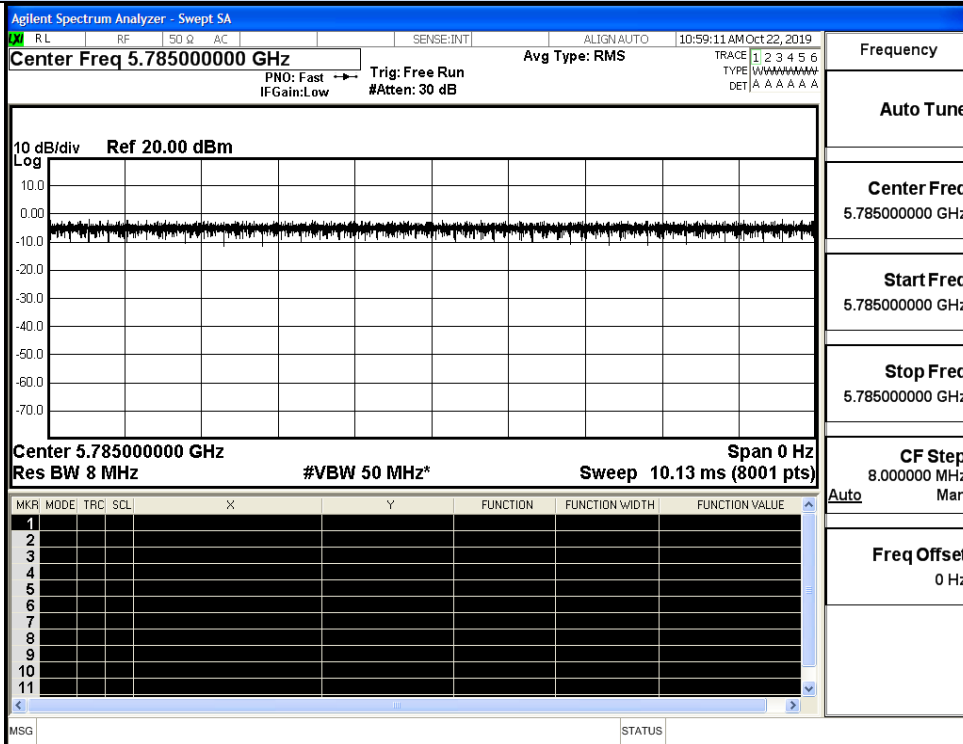


IEEE 802.11AC80

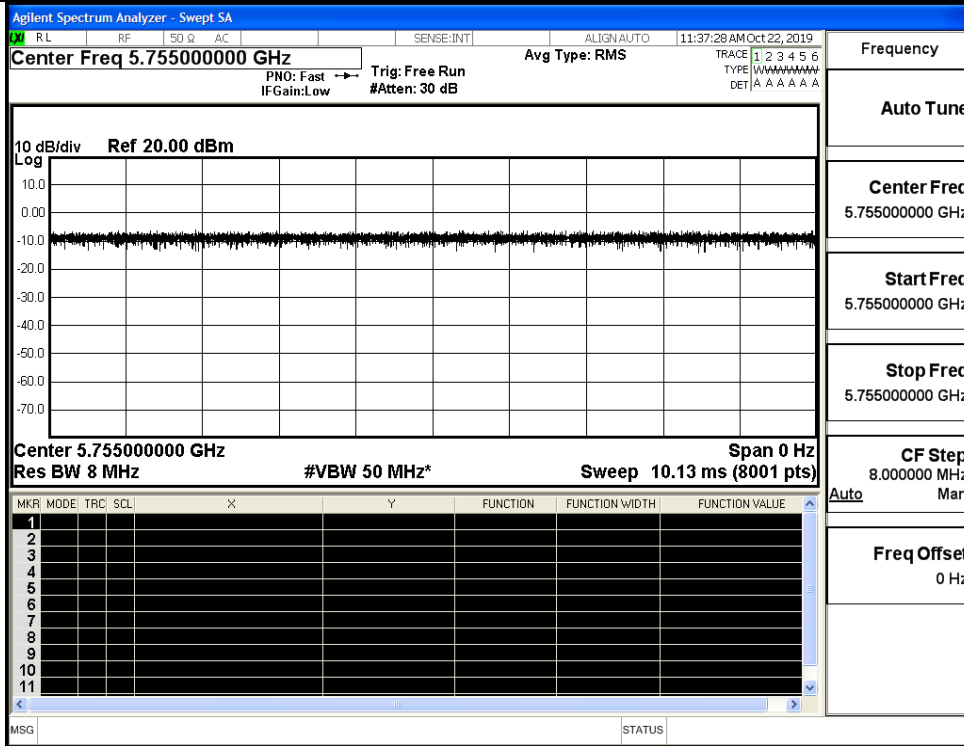
On Time and Duty Cycle\_ANT\_4



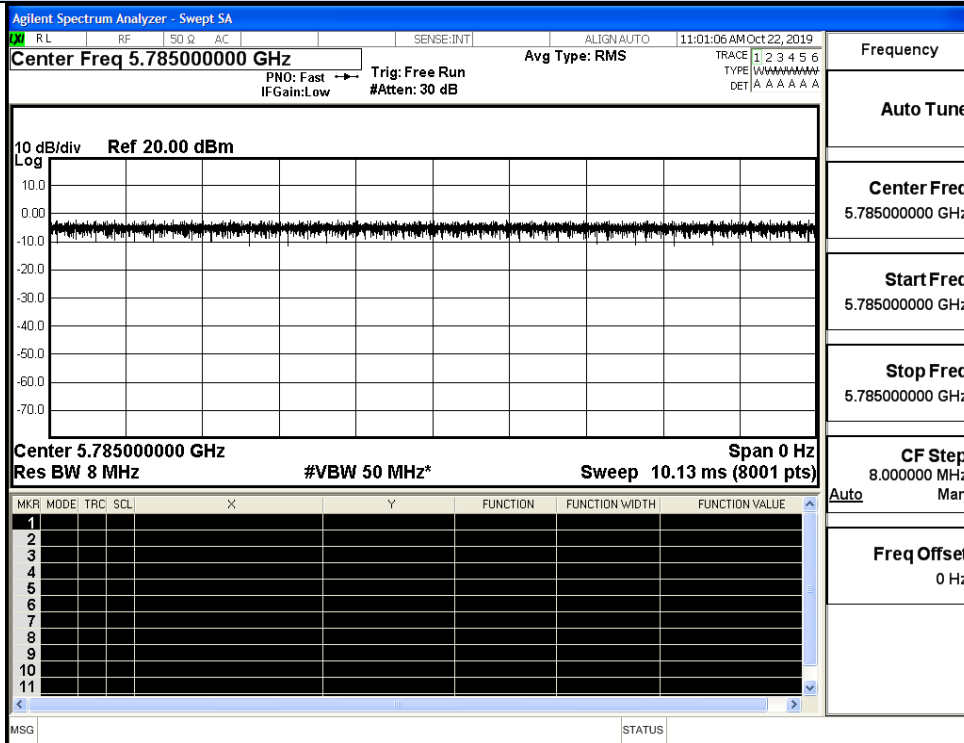
IEEE 802.11a



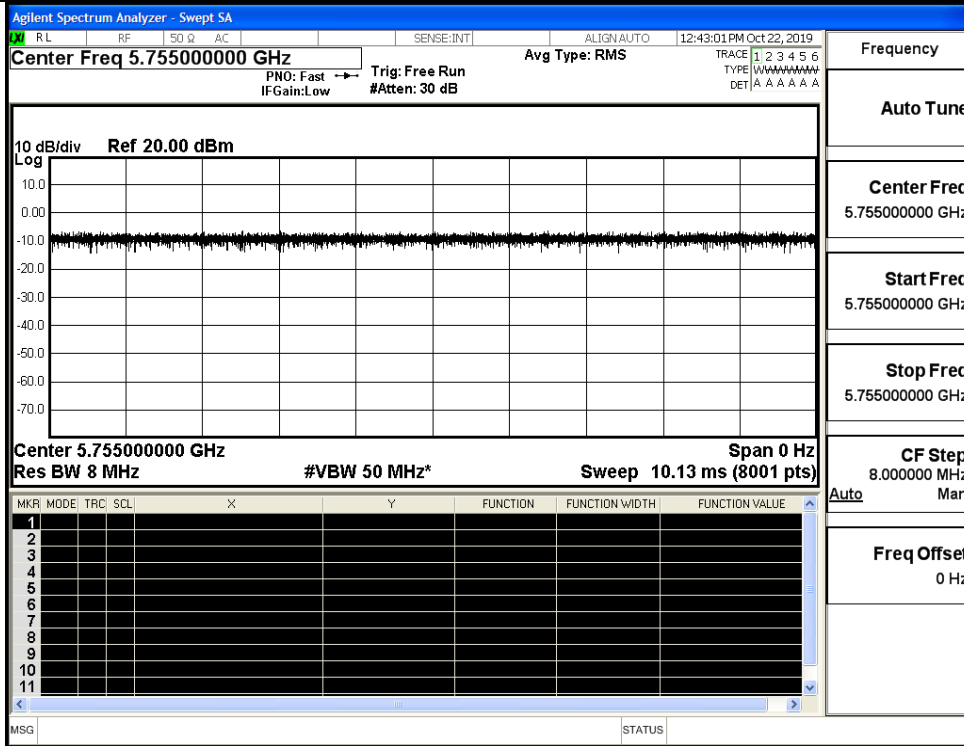
IEEE 802.11n HT20



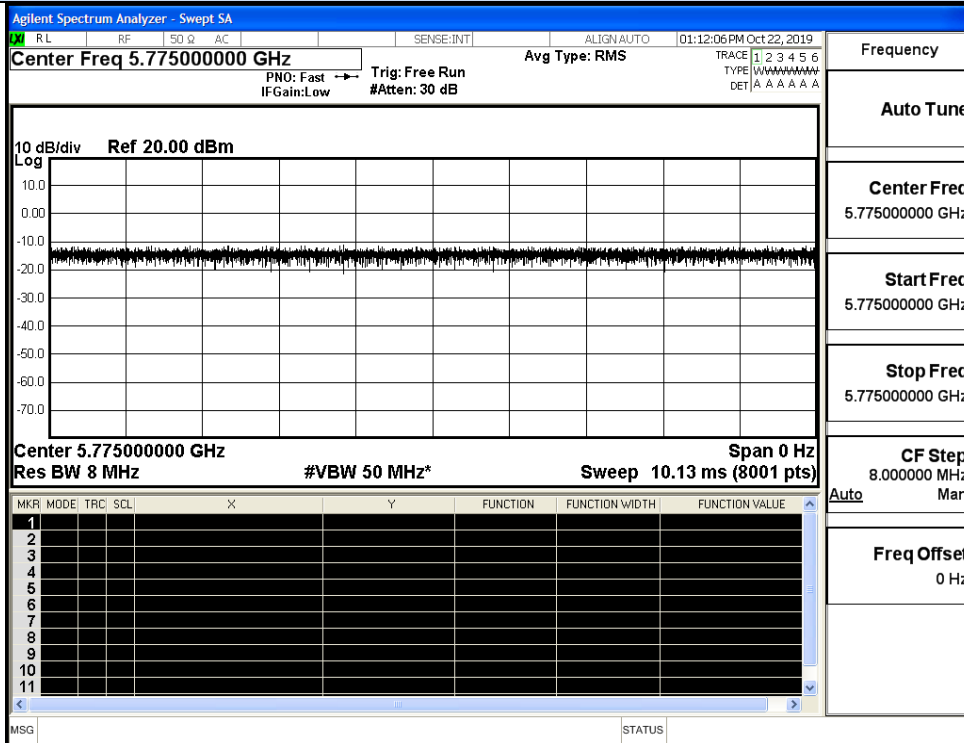
IEEE 802.11n HT40



IEEE 802.11AC20



IEEE 802.11AC40



IEEE 802.11AC80

### C.2 Maximum Conduct Output Power

#### ANT\_3

Test Mode	Channel	Frequency (MHz)	AVG Conducted Power (dBm)	Duty Cycle Factor(dB)	Report Conducted Power(dBm)	Limit (dBm)	Verdict
11A	149	5745	11.32	0	11.32	30	Pass
	157	5785	11.61	0	11.61		Pass
	165	5825	11.66	0	11.66		Pass
11N20 SISO	149	5745	11.13	0	11.13	30	Pass
	157	5785	11.66	0	11.66		Pass
	165	5825	11.71	0	11.71		Pass
11N40 SISO	151	5755	11.5	0	11.5	30	Pass
	159	5795	11.6	0	11.6		Pass
11AC20 SISO	149	5745	11.84	0	11.84	30	Pass
	157	5785	11.56	0	11.56		Pass
	165	5825	11.64	0	11.64		Pass
11AC40 SISO	151	5755	11.42	0	11.42	30	Pass
	159	5795	11.6	0	11.6		Pass
11AC80 SISO	155	5775	10.2	0	10.2	30	Pass

#### ANT\_4

Test Mode	Channel	Frequency (MHz)	AVG Conducted Power (dBm)	Duty Cycle Factor(dB)	Report Conducted Power(dBm)	Limit (dBm)	Verdict
11A	149	5745	11.72	0	11.72	30	Pass
	157	5785	11.37	0	11.37		Pass
	165	5825	11.16	0	11.16		Pass
11N20 SISO	149	5745	11.75	0	11.75	30	Pass
	157	5785	11.48	0	11.48		Pass
	165	5825	11.53	0	11.53		Pass
11N40 SISO	151	5755	11.03	0	11.03	30	Pass
	159	5795	11.05	0	11.05		Pass
11AC20 SISO	149	5745	11.62	0	11.62	30	Pass
	157	5785	11.37	0	11.37		Pass
	165	5825	11.4	0	11.4		Pass
11AC40 SISO	151	5755	10.97	0	10.97	30	Pass
	159	5795	11.11	0	11.11		Pass
11AC80 SISO	155	5775	9.95	0	9.95	30	Pass

#### ANT\_3+ANT\_4

Test Mode	Channel	Frequency (MHz)	AVG Conducted Power (dBm)			Duty Cycle Factor (dB)	Report Conducted Power(dBm)			Limit (dBm)
			Ant_3	Ant_4	Sum		Ant_3	Ant_4	Sum	
11N20	149	5745	11.13	11.75	14.46	0	11.13	11.75	14.46	29.99
	157	5785	11.66	11.48	14.58	0	11.66	11.48	14.58	
	165	5825	11.71	11.53	14.63	0	11.71	11.53	14.63	
11N40	151	5755	11.5	11.03	14.28	0	11.5	11.03	14.28	29.99
	159	5795	11.6	11.05	14.34	0	11.6	11.05	14.34	
11AC20	149	5745	11.84	11.62	14.74	0	11.84	11.62	14.74	29.99
	157	5785	11.56	11.37	14.48	0	11.56	11.37	14.48	
	165	5825	11.64	11.4	14.53	0	11.64	11.4	14.53	
11AC40	151	5755	11.42	10.97	14.21	0	11.42	10.97	14.21	29.99
	159	5795	11.6	11.11	14.37	0	11.6	11.11	14.37	
11AC80	155	5775	10.2	9.95	13.09	0	10.2	9.95	13.09	29.99



### C.3 Power Spectral Density

#### ANT\_3

Test Mode	Channel	Frequency (MHz)	Power Density (dBm/300KHz)	Duty Cycle Factor(dB)	RBW Factor (dB)	Report Power Density (dBm/500KHz)	Limit (dBm/500KHz)	Verdict
11A	149	5745	-2.60	0	2.218	-0.38	30	Pass
	157	5785	-2.58	0	2.218	-0.36		Pass
	165	5825	-2.25	0	2.218	-0.03		Pass
11N20 SISO	149	5745	-3.50	0	2.218	-1.28	30	Pass
	157	5785	-2.88	0	2.218	-0.66		Pass
	165	5825	-2.92	0	2.218	-0.70		Pass
11N40 SISO	151	5755	-5.56	0	2.218	-3.34	30	Pass
	159	5795	-6.25	0	2.218	-4.03		Pass
11AC20 SISO	149	5745	-2.56	0	2.218	-0.34	30	Pass
	157	5785	-3.16	0	2.218	-0.94		Pass
	165	5825	-2.99	0	2.218	-0.77		Pass
11AC40 SISO	151	5755	-5.77	0	2.218	-3.55	30	Pass
	159	5795	-5.48	0	2.218	-3.26		Pass
11AC80 SISO	155	5775	-10.62	0	2.218	-8.40	30	Pass

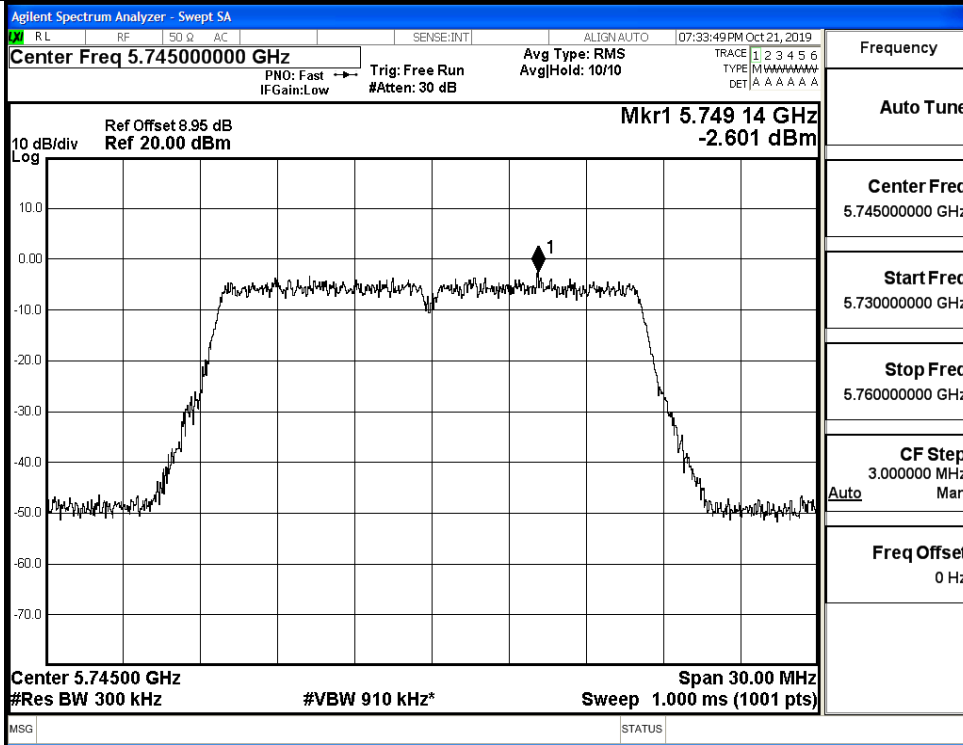
#### ANT\_4

Test Mode	Channel	Frequency (MHz)	Power Density (dBm/300KHz)	Duty Cycle Factor(dB)	RBW Factor (dB)	Report Power Density (dBm/500KHz)	Limit (dBm/500KHz)	Verdict
11A	149	5745	-3.13	0	2.218	-0.91	30	Pass
	157	5785	-2.40	0	2.218	-0.18		Pass
	165	5825	-2.92	0	2.218	-0.70		Pass
11N20 SISO	149	5745	-2.64	0	2.218	-0.42	30	Pass
	157	5785	-2.96	0	2.218	-0.74		Pass
	165	5825	-2.23	0	2.218	-0.01		Pass
11N40 SISO	151	5755	-6.34	0	2.218	-4.12	30	Pass
	159	5795	-6.35	0	2.218	-4.13		Pass
11AC20 SISO	149	5745	-2.47	0	2.218	-0.25	30	Pass
	157	5785	-2.35	0	2.218	-0.13		Pass
	165	5825	-2.41	0	2.218	-0.19		Pass
11AC40 SISO	151	5755	-6.05	0	2.218	-3.83	30	Pass
	159	5795	-6.10	0	2.218	-3.88		Pass
11AC80 SISO	155	5775	-10.88	0	2.218	-8.66	30	Pass

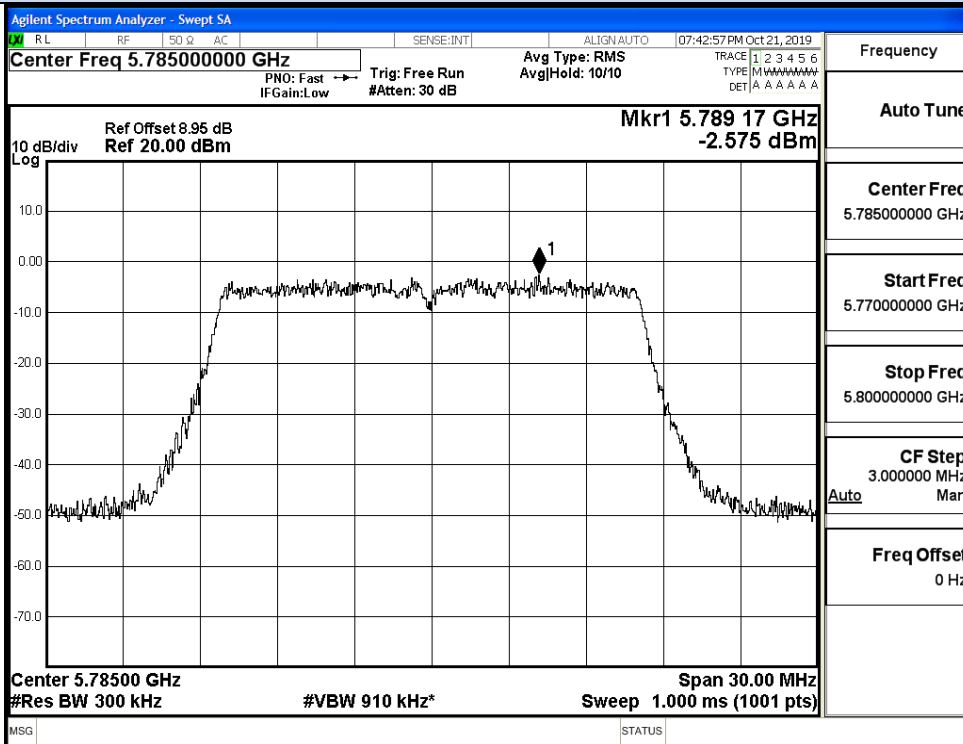
#### Combined Ant\_3 and Ant\_4

Test Mode	Channel	Frequency (MHz)	Report Power Density (dBm/500KHz)			Limit (dBm/500KHz)
			Ant_3	Ant_4	Sum	
11N20	149	5745	-1.28	-0.42	2.18	29.99
	157	5785	-0.66	-0.74	2.31	
	165	5825	-0.70	-0.01	2.67	
11N40	151	5755	-3.34	-4.12	-0.70	29.99
	159	5795	-4.03	-4.13	-1.07	
11AC20	149	5745	-0.34	-0.25	2.72	29.99
	157	5785	-0.94	-0.13	2.49	
	165	5825	-0.77	-0.19	2.54	
11AC40	151	5755	-3.55	-3.83	-0.68	29.99
	159	5795	-3.26	-3.88	-0.55	
11AC80	155	5775	-8.40	-8.66	-5.52	29.99

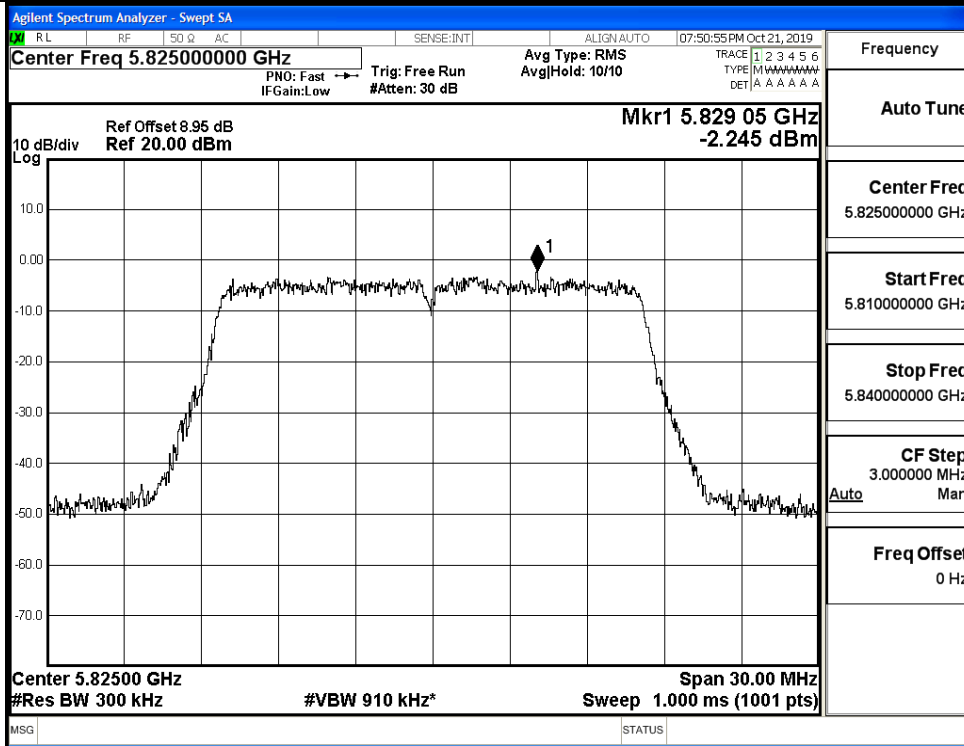
Power Spectral Density-ANT\_3



IEEE 802.11a / Channel 149 / 5745MHz

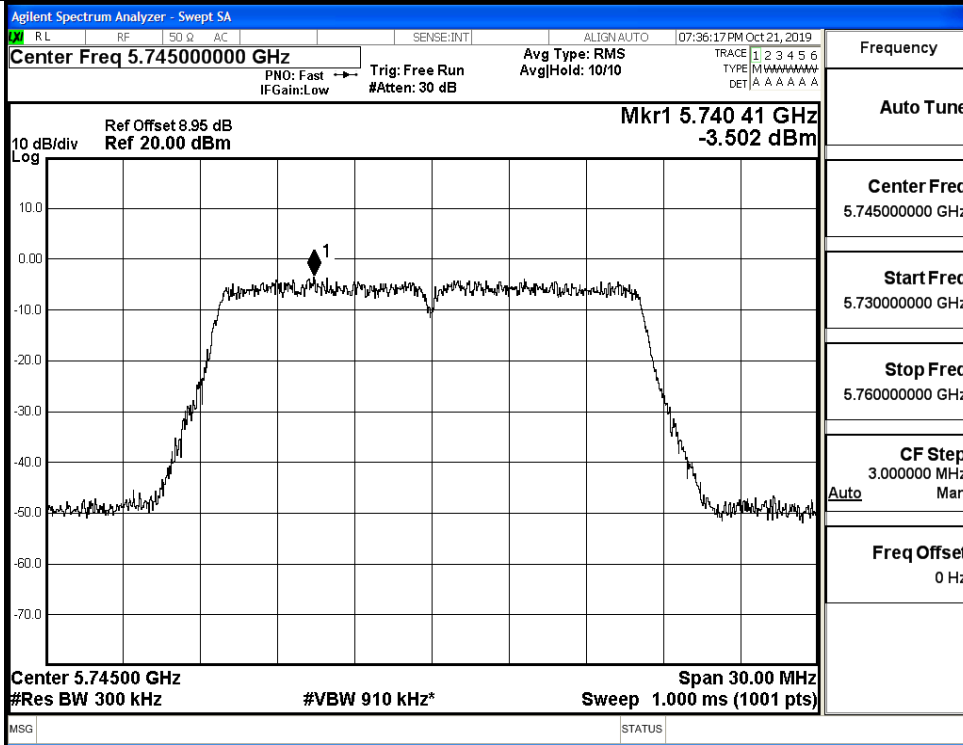


IEEE 802.11na / Channel 157 / 5785MHz

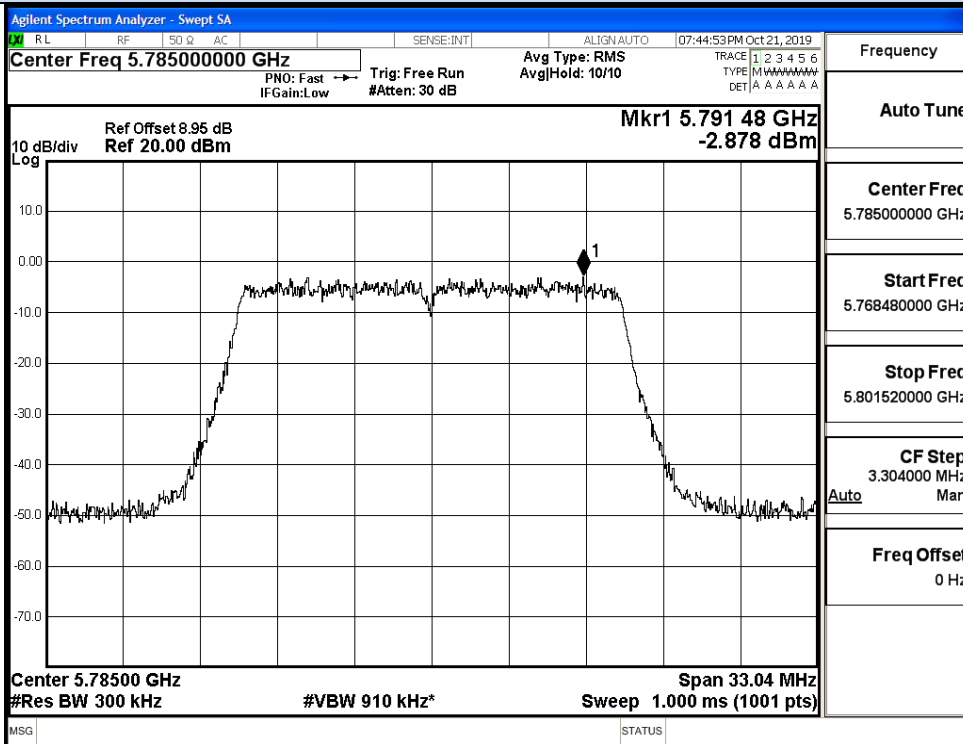


IEEE 802.11na / Channel 165 / 5825MHz

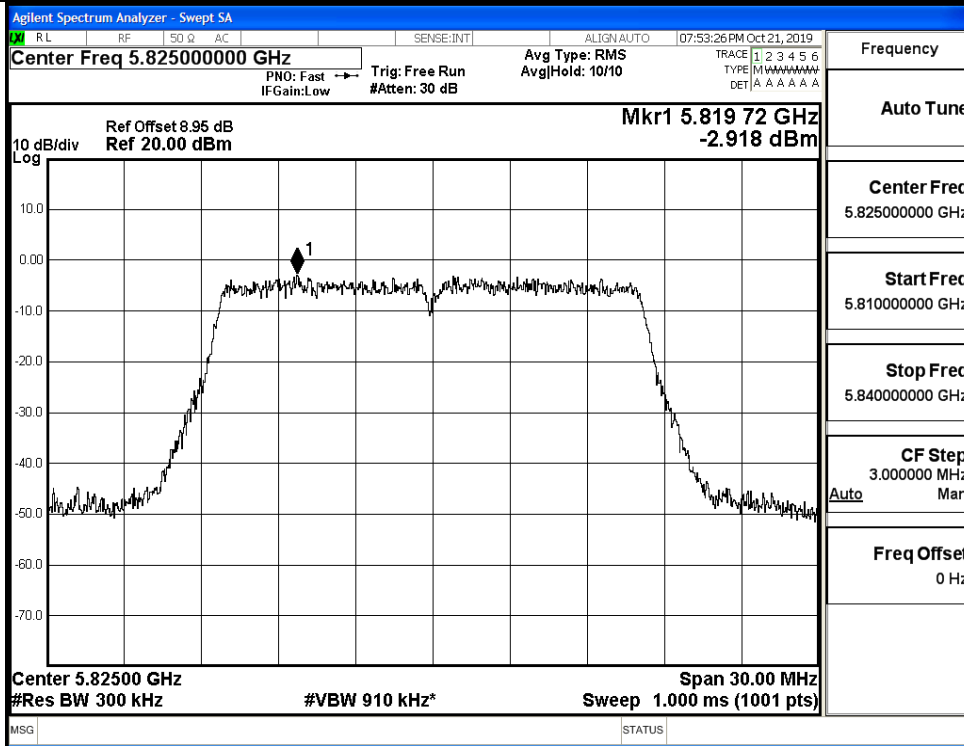
Power Spectral Density



IEEE 802.11n20 / Channel 149 / 5745MHz

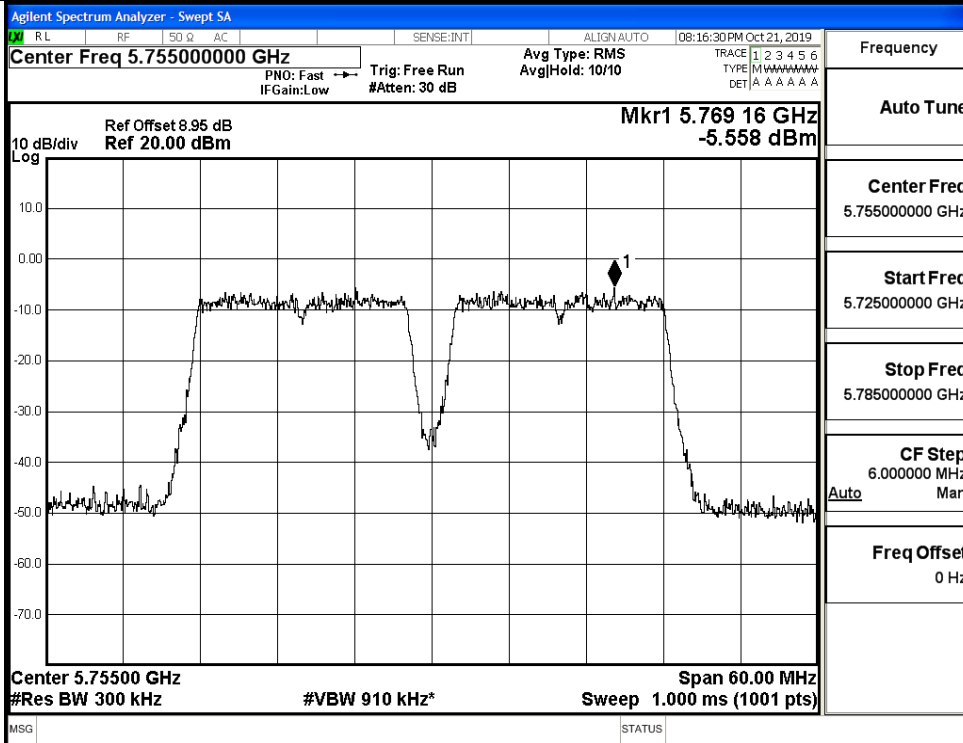


IEEE 802.11n20 / Channel 157 / 5785MHz

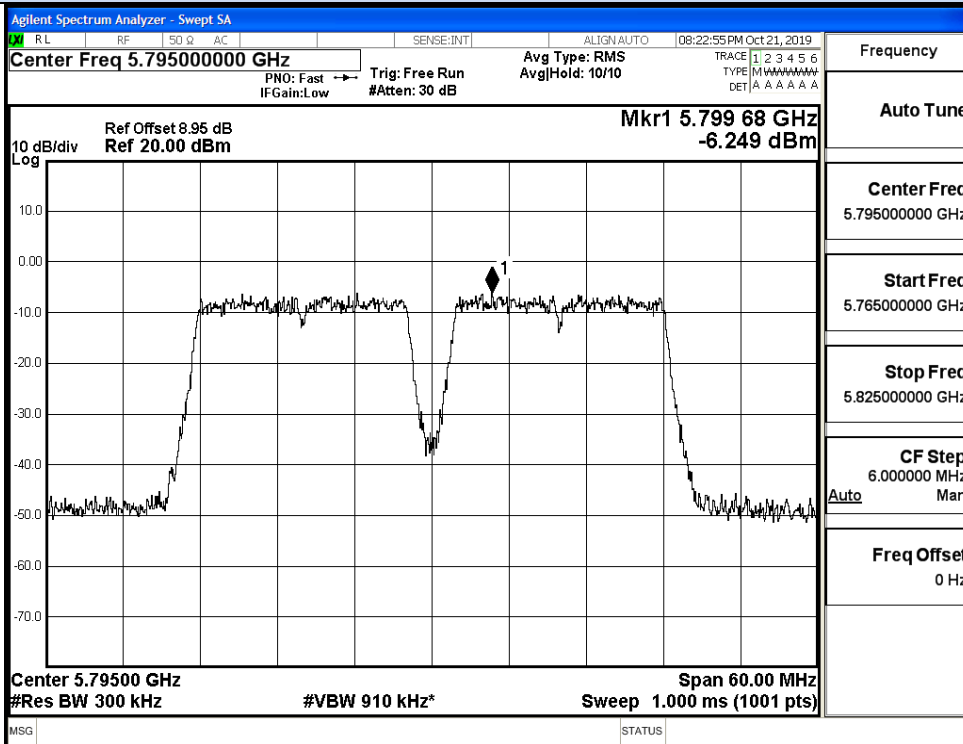


IEEE 802.11n20 / Channel 165 / 5825MHz

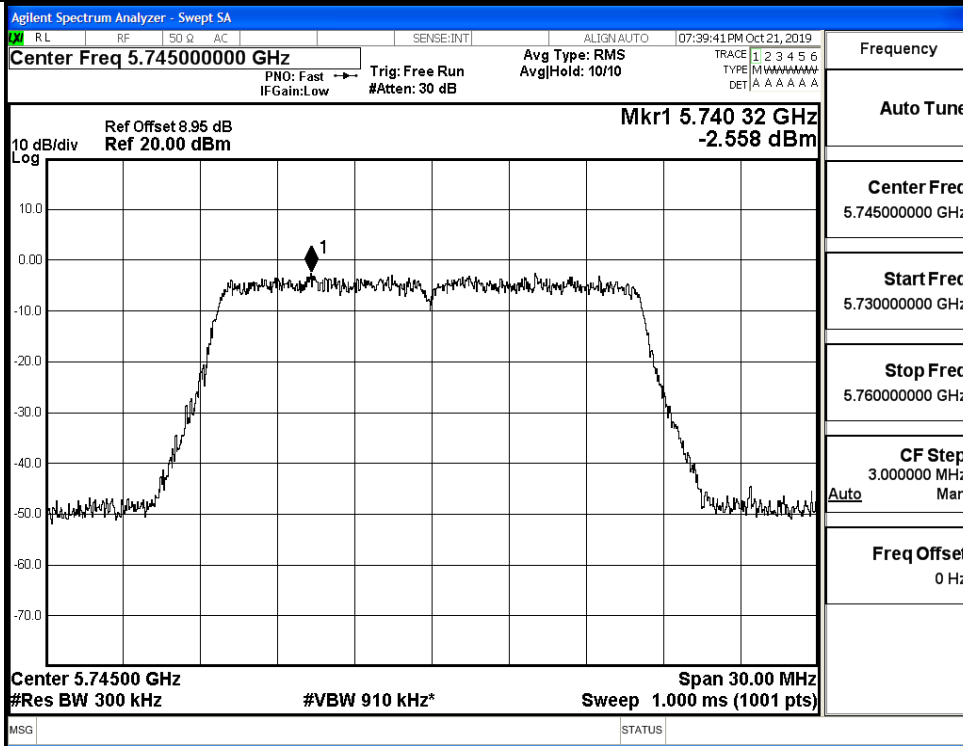
Power Spectral Density



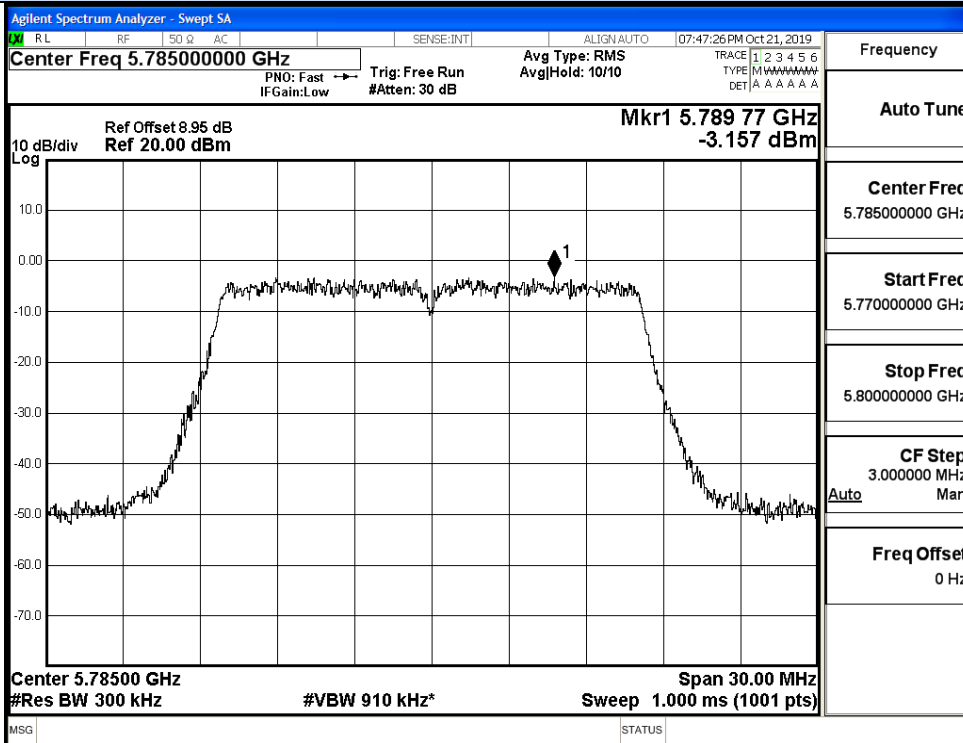
IEEE 802.11n40 / Channel 151 / 5755MHz



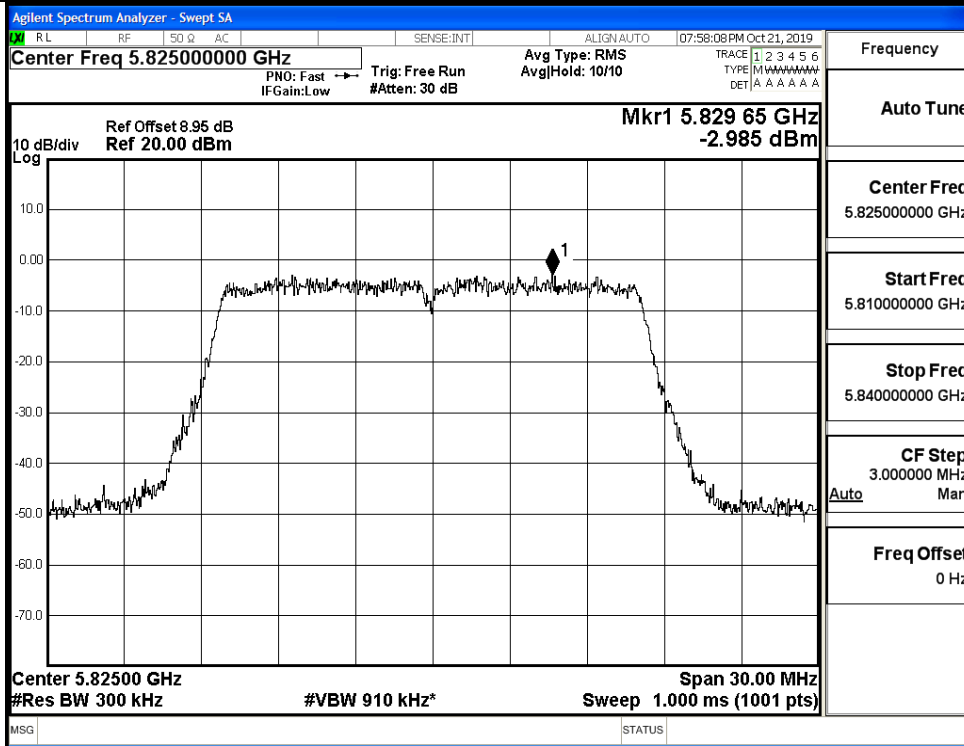
IEEE 802.11n40 / Channel 159 / 5795MHz



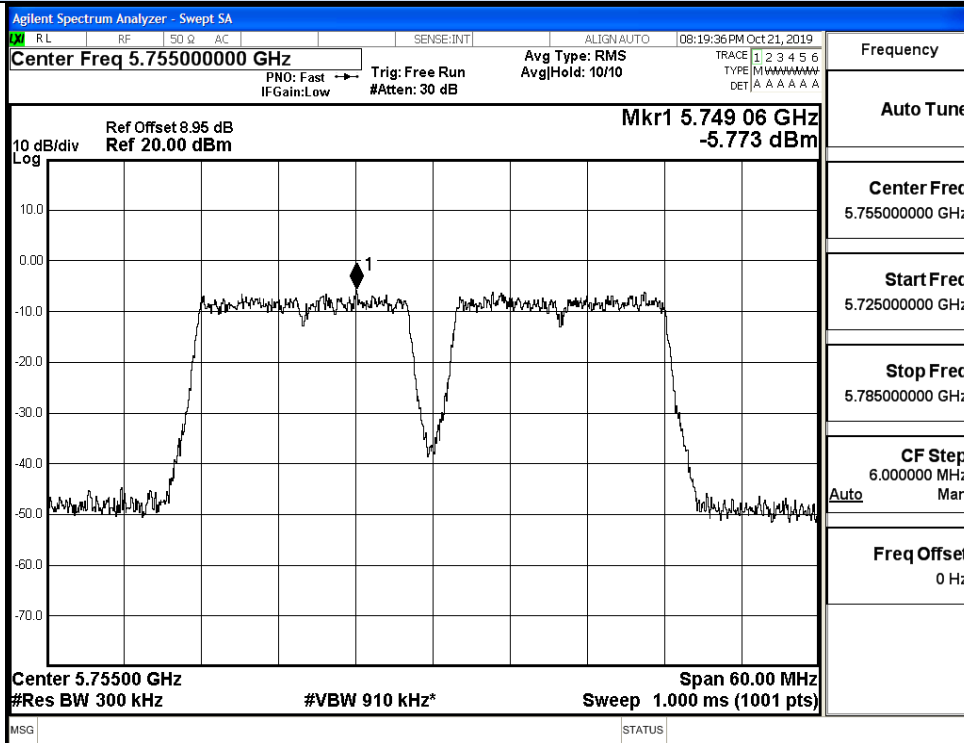
IEEE 802.11ac20 / Channel 149 / 5745MHz



IEEE 802.11ac20 / Channel 157 / 5785MHz

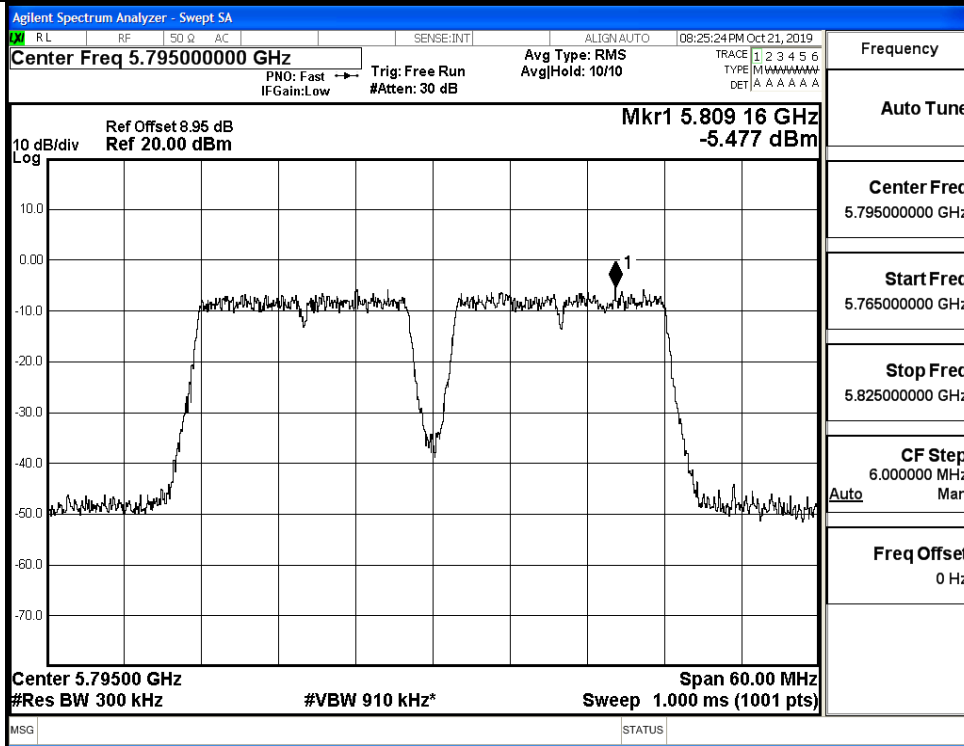


IEEE 802.11ac20 / Channel 165 / 5825MHz

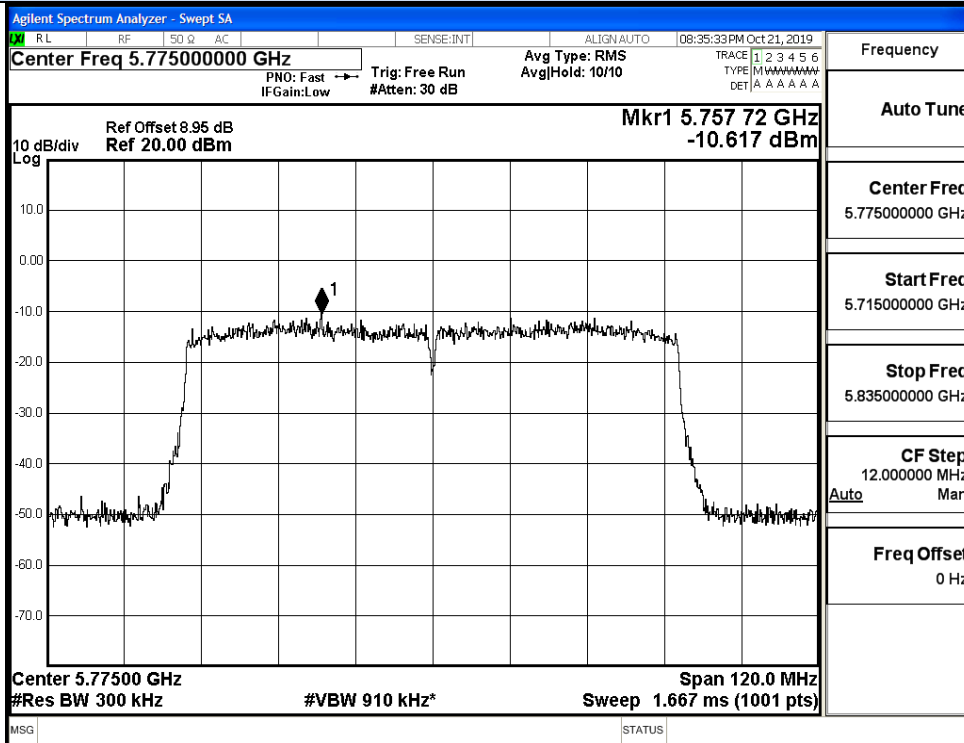


IEEE 802.11ac40 / Channel 151 / 5755MHz



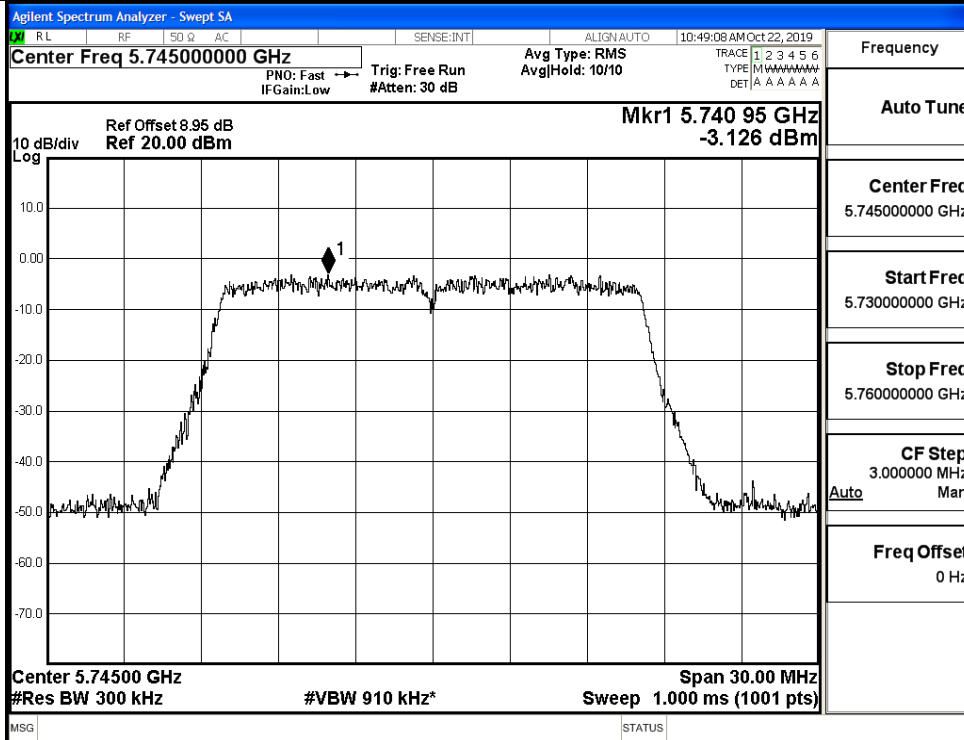


IEEE 802.11ac40 / Channel 159 / 5795MHz

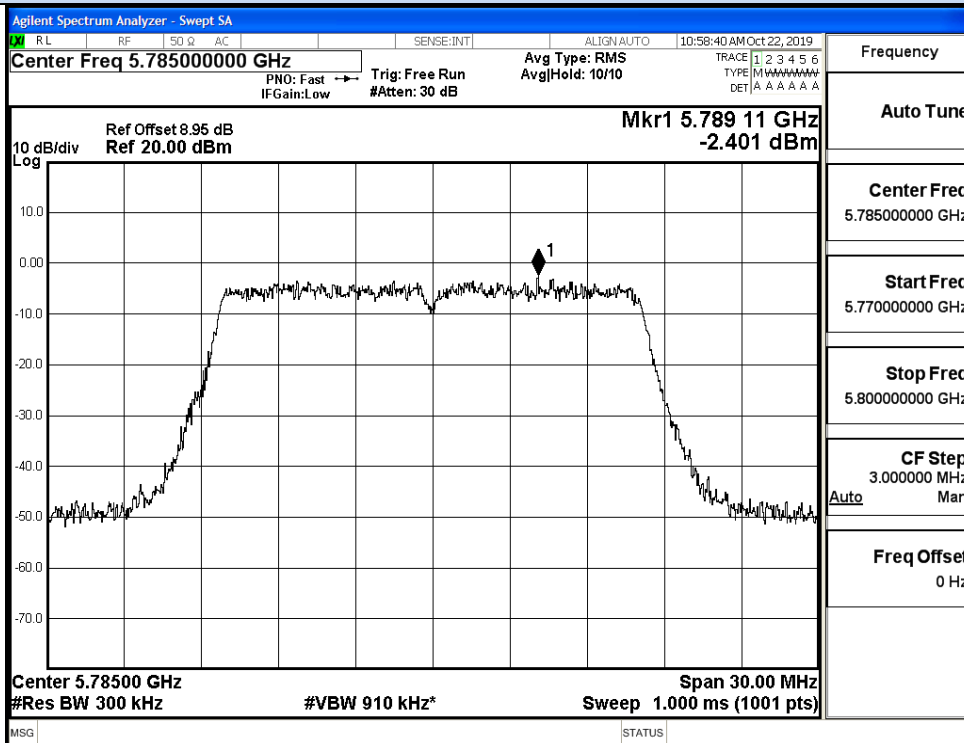


IEEE 802.11ac80 / Channel 155/ 5775MHz

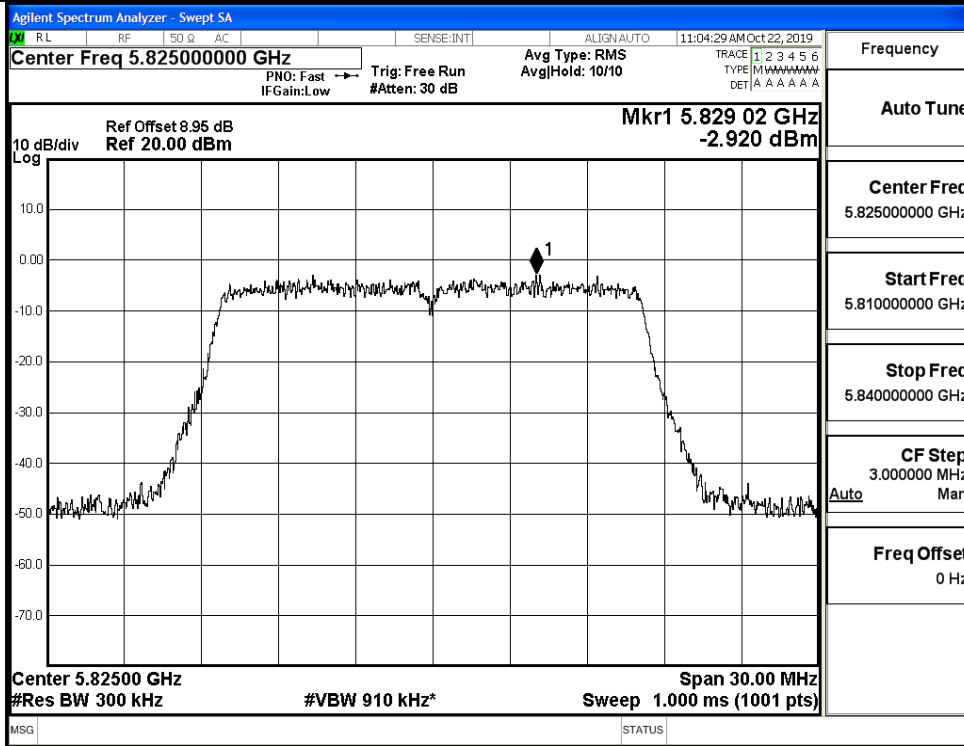
Power Spectral Density\_ANT\_4



IEEE 802.11a / Channel 149 / 5745MHz

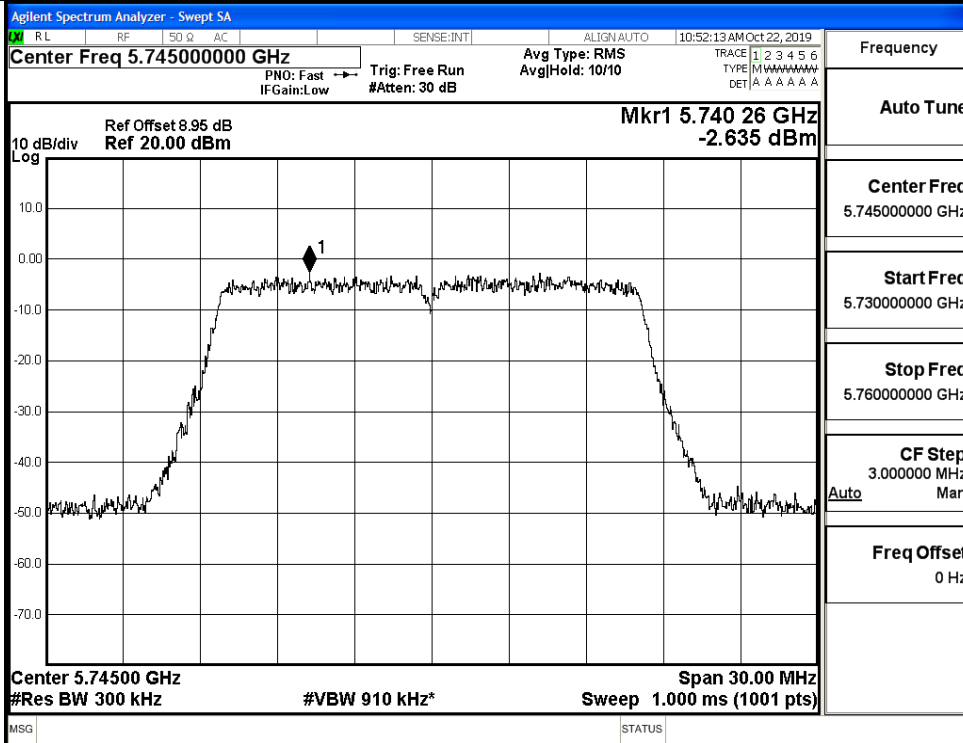


IEEE 802.11a / Channel 157 / 5785MHz

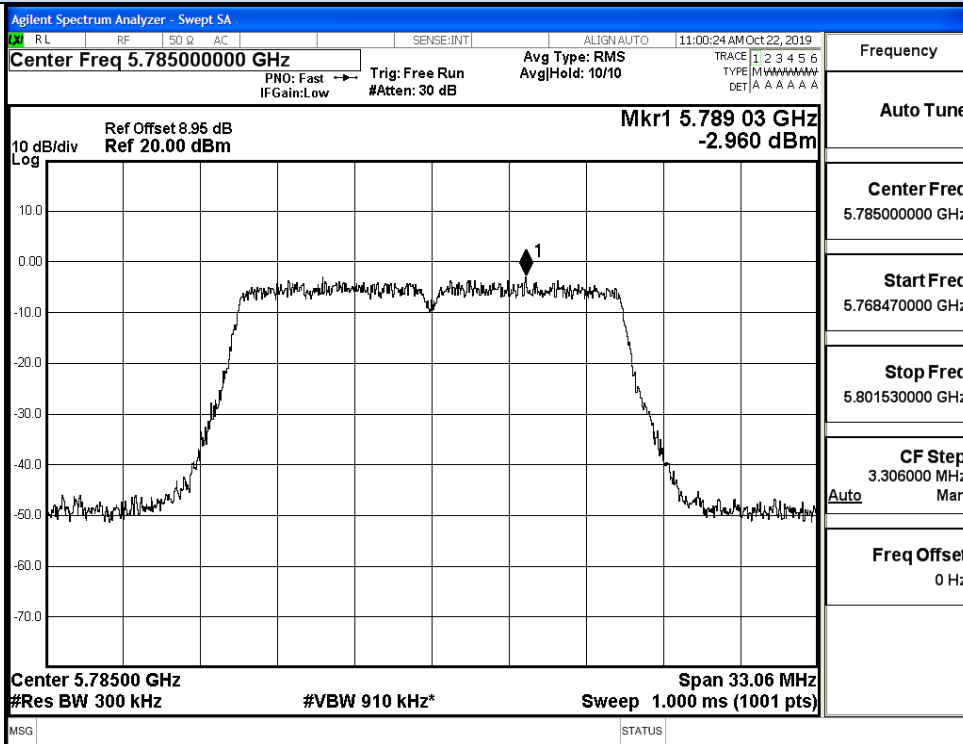


IEEE 802.11na / Channel 165 / 5825MHz

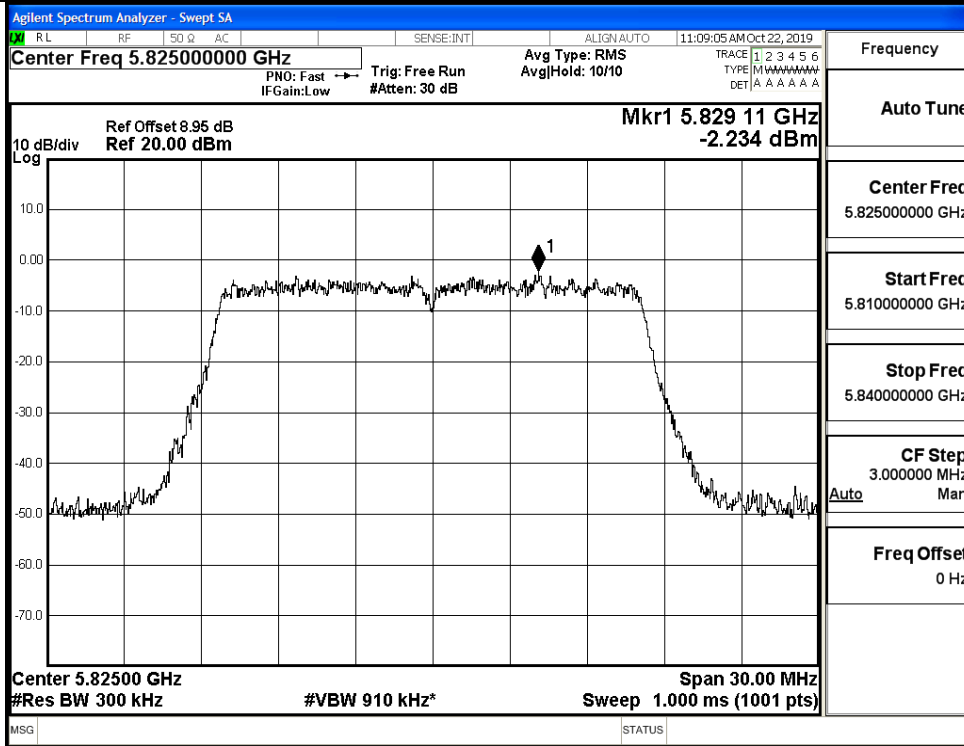
Power Spectral Density



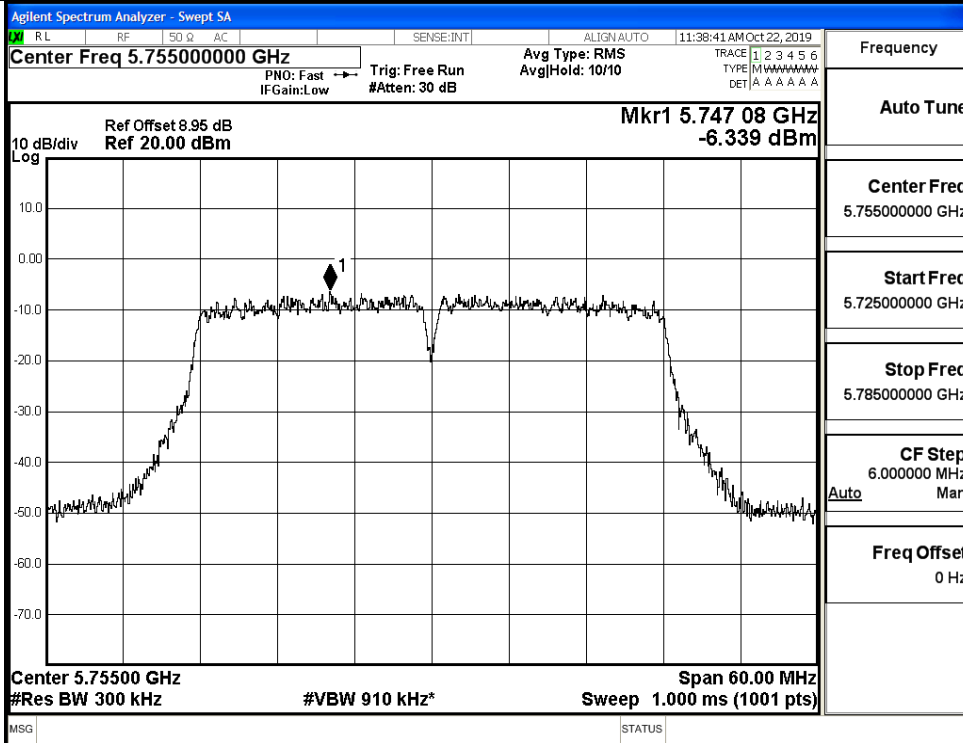
IEEE 802.11n20 / Channel 149 / 5745MHz



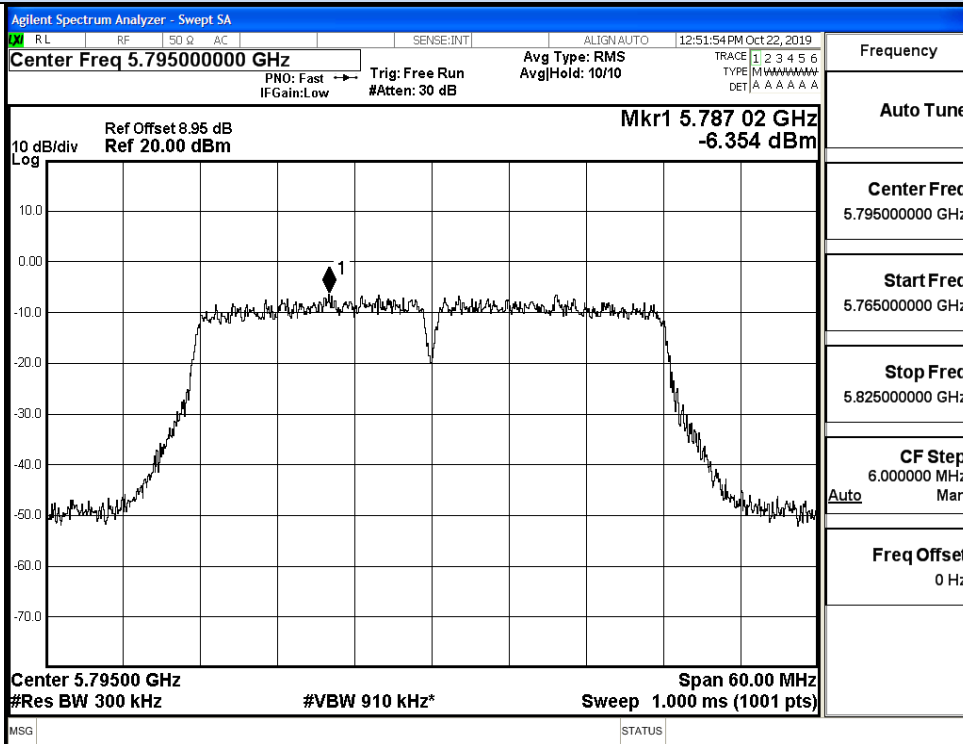
IEEE 802.11n20 / Channel 157 / 5785MHz



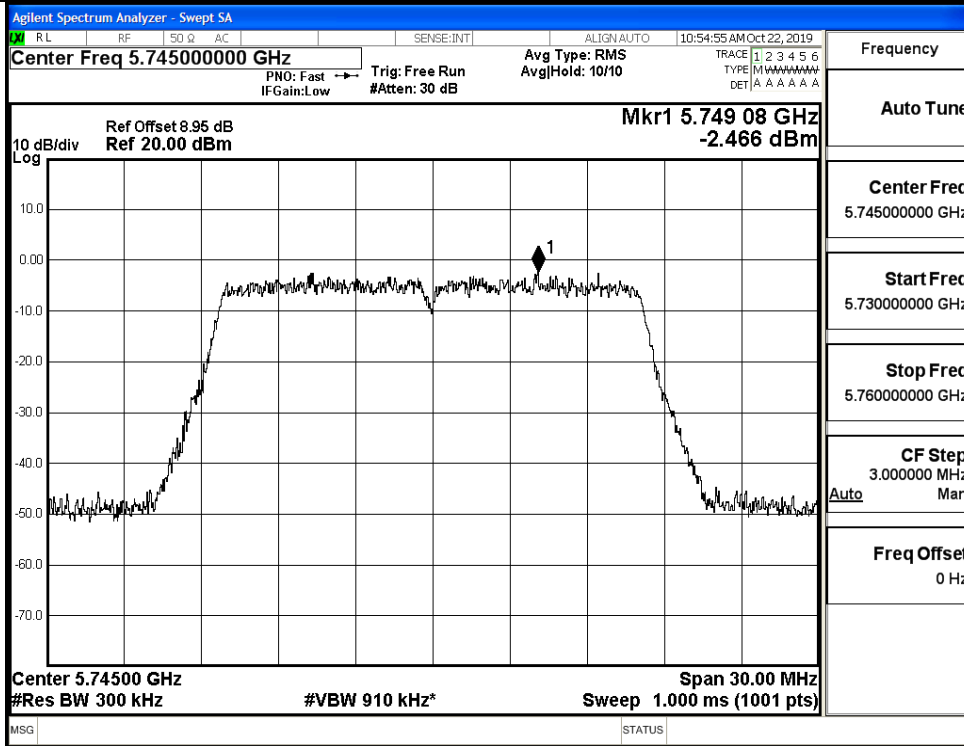
Power Spectral Density



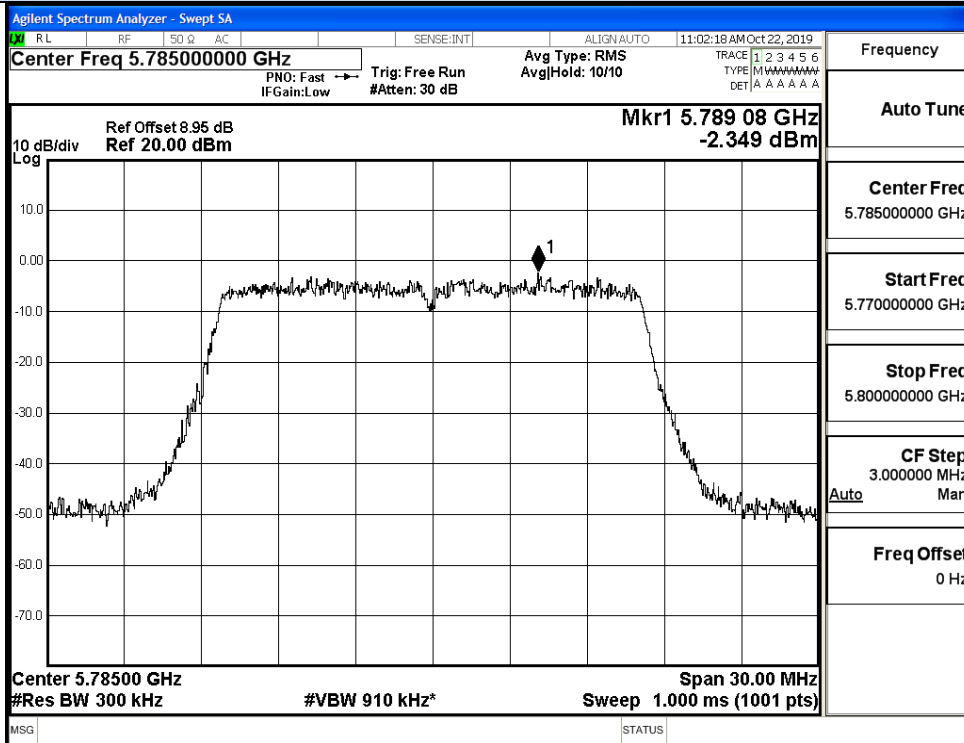
IEEE 802.11n40 / Channel 151 / 5755MHz



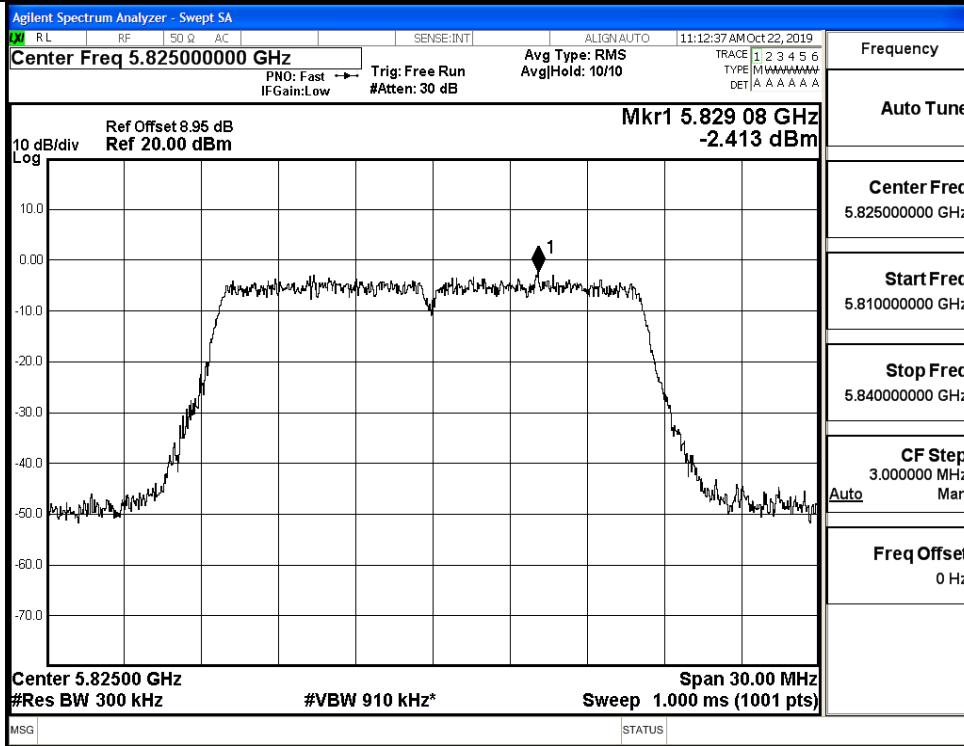
IEEE 802.11n40 / Channel 159 / 5795MHz



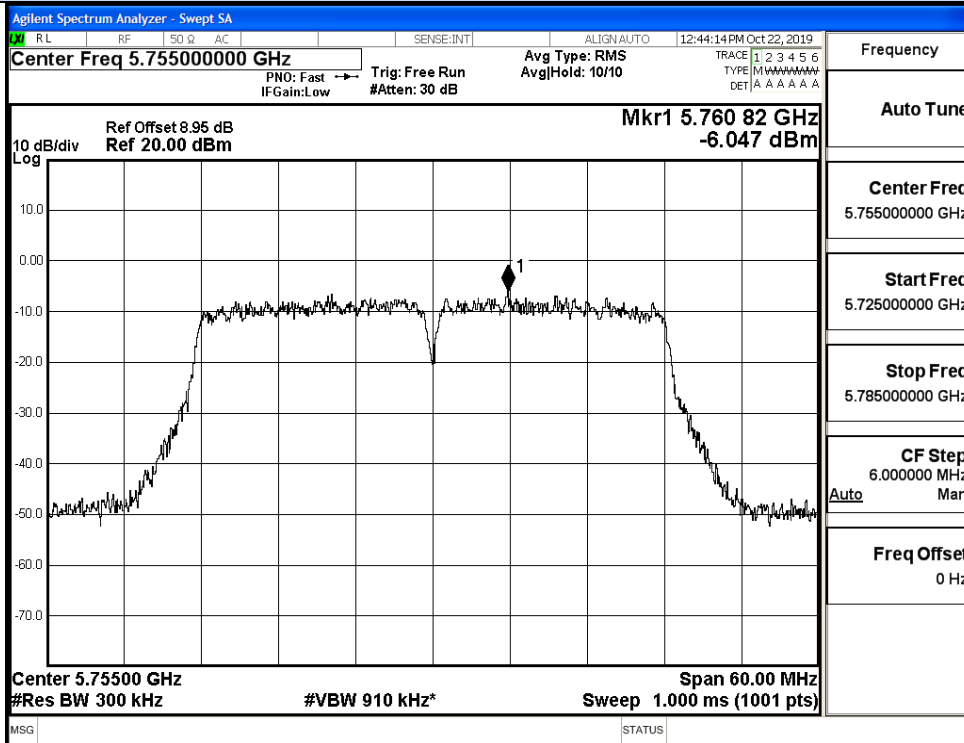
IEEE 802.11ac20 / Channel 149 / 5745MHz



IEEE 802.11ac20 / Channel 157 / 5785MHz

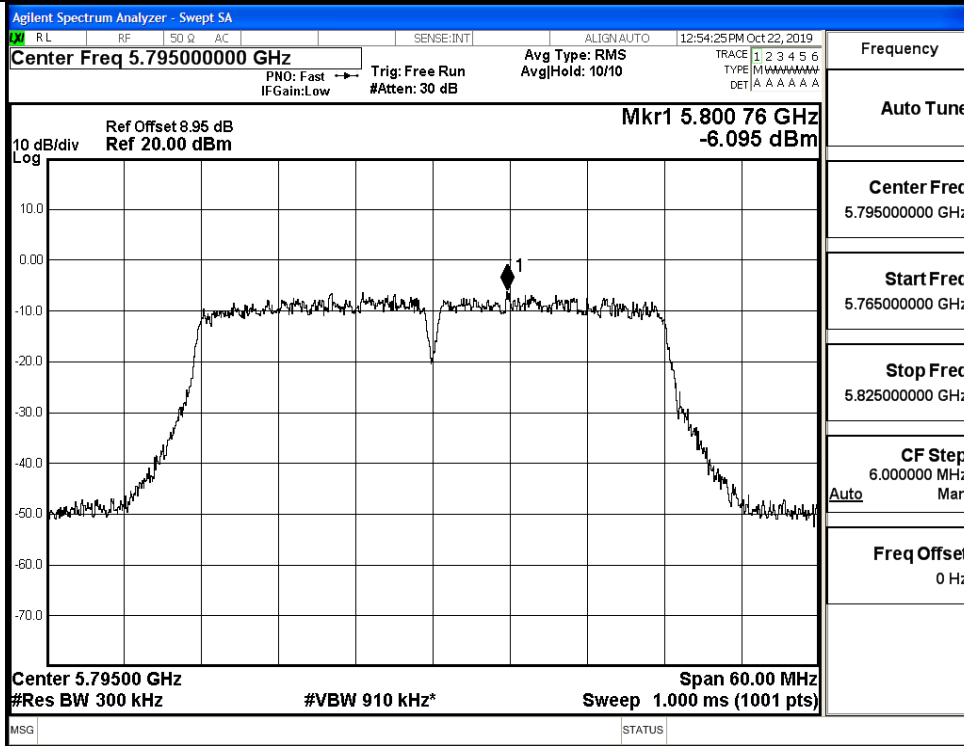


IEEE 802.11ac20 / Channel 165 / 5825MHz

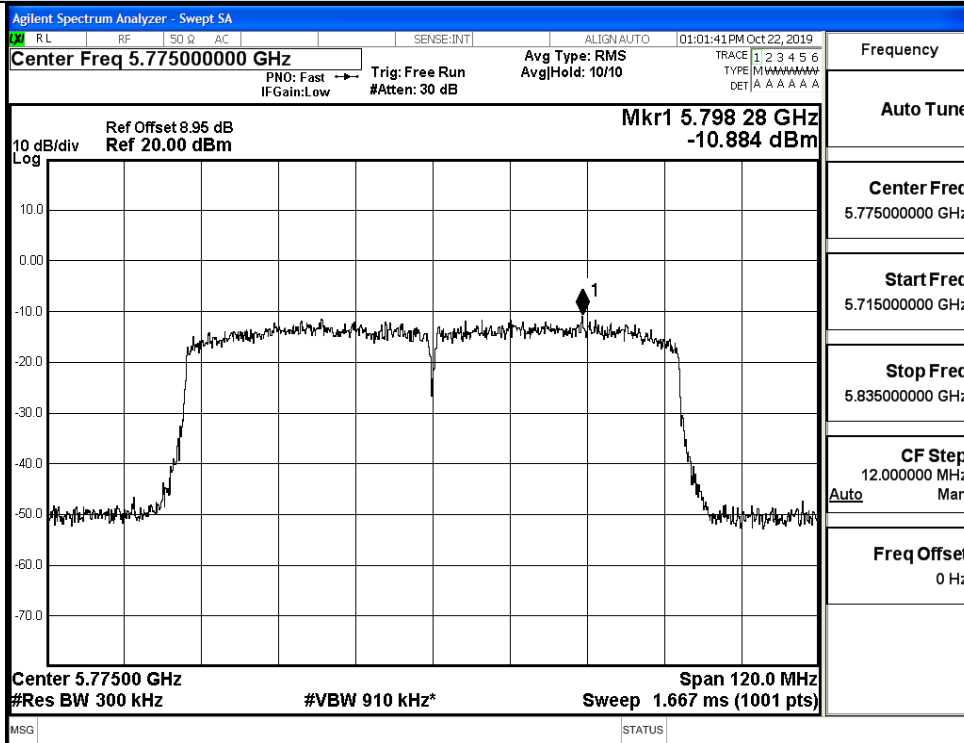


IEEE 802.11ac40 / Channel 151 / 5755MHz





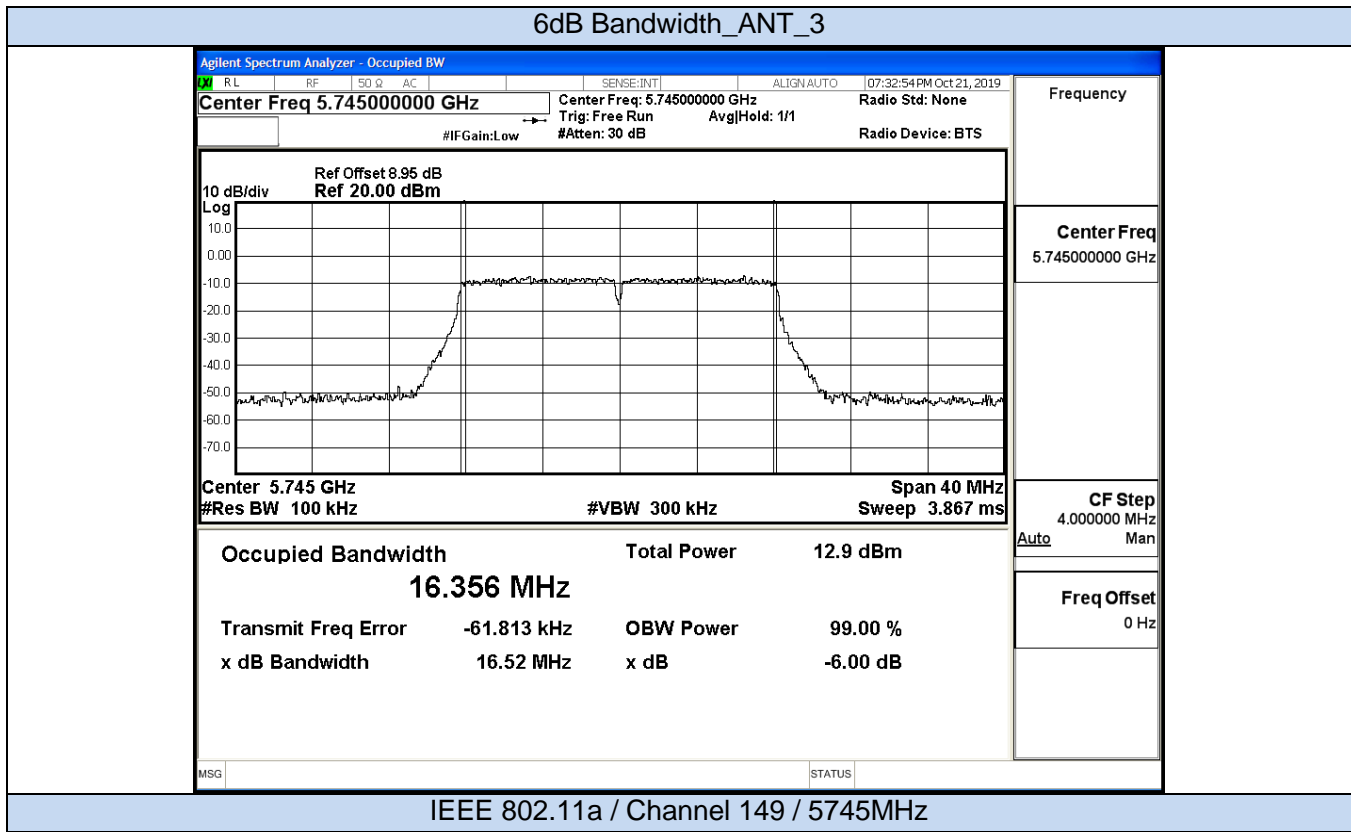
IEEE 802.11ac40 / Channel 159 / 5795MHz

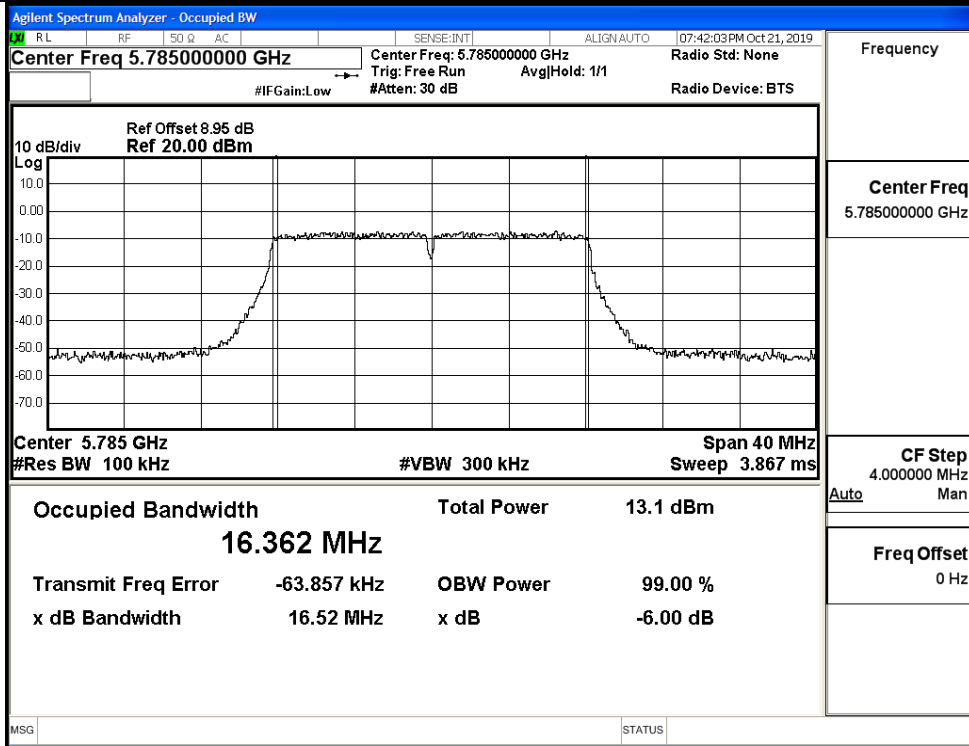


IEEE 802.11ac80 / Channel 155/ 5775MHz

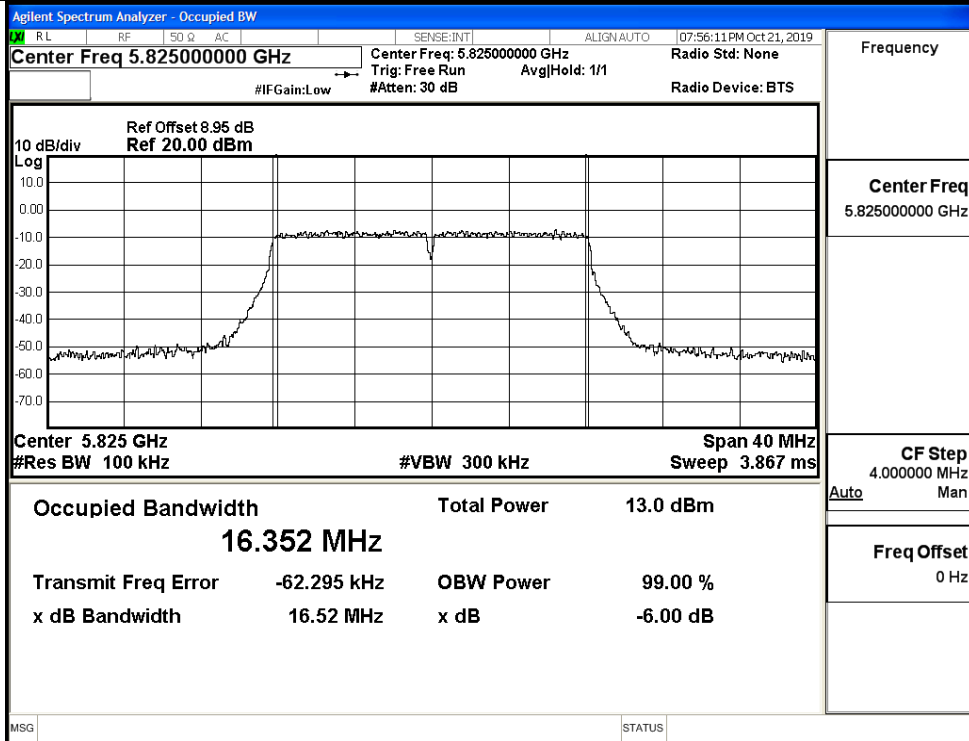
### C.4 Emission Bandwidth

Test Mode	Channel	Frequency (MHz)	6dB Bandwidth (MHz)		Limit (MHz)	Verdict
			Ant_3	Ant_4		
11A	149	5745	16.52	16.54	>=0.5	Pass
	157	5785	16.52	16.55		Pass
	165	5825	16.52	16.54		Pass
11N20	149	5745	16.53	16.52	>=0.5	Pass
	157	5785	16.52	16.53		Pass
	165	5825	16.53	16.51		Pass
11N40	151	5755	36.59	36.50	>=0.5	Pass
	159	5795	36.58	36.51		Pass
11AC20	149	5745	16.56	16.51	>=0.5	Pass
	157	5785	16.50	16.55		Pass
	165	5825	16.55	16.53		Pass
11AC40	151	5755	36.56	36.52	>=0.5	Pass
	159	5795	36.56	36.49		Pass
11AC80	155	5775	76.33	76.43	>=0.5	Pass





IEEE 802.11a / Channel 157 / 5785MHz



IEEE 802.11a / Channel 165 / 5825MHz

6dB Bandwidth

Agilent Spectrum Analyzer - Occupied BW

RL	RF	50 Ω	AC	SENSE:INT	ALIGN:AUTO	07:35:23 PM Oct 21, 2019
Center Freq 5.74500000 GHz				Center Freq: 5.74500000 GHz	Trig: Free Run	Avg/Hold: 1/1
#IF Gain: Low				#Atten: 30 dB	Radio Std: None	Radio Device: BTS

10 dB/div  
Ref Offset 8.95 dB  
Ref 20.00 dBm

Center 5.745 GHz	#Res BW 100 kHz	#VBW 300 kHz	Span 40 MHz	Sweep 3.867 ms
<b>Occupied Bandwidth</b>		<b>Total Power</b>	<b>12.6 dBm</b>	
<b>16.358 MHz</b>				
Transmit Freq Error	-63.125 kHz	OBW Power	99.00 %	
x dB Bandwidth	16.53 MHz	x dB	-6.00 dB	

MSG STATUS

IEEE 802.11n20 / Channel 149 / 5745MHz

Agilent Spectrum Analyzer - Occupied BW

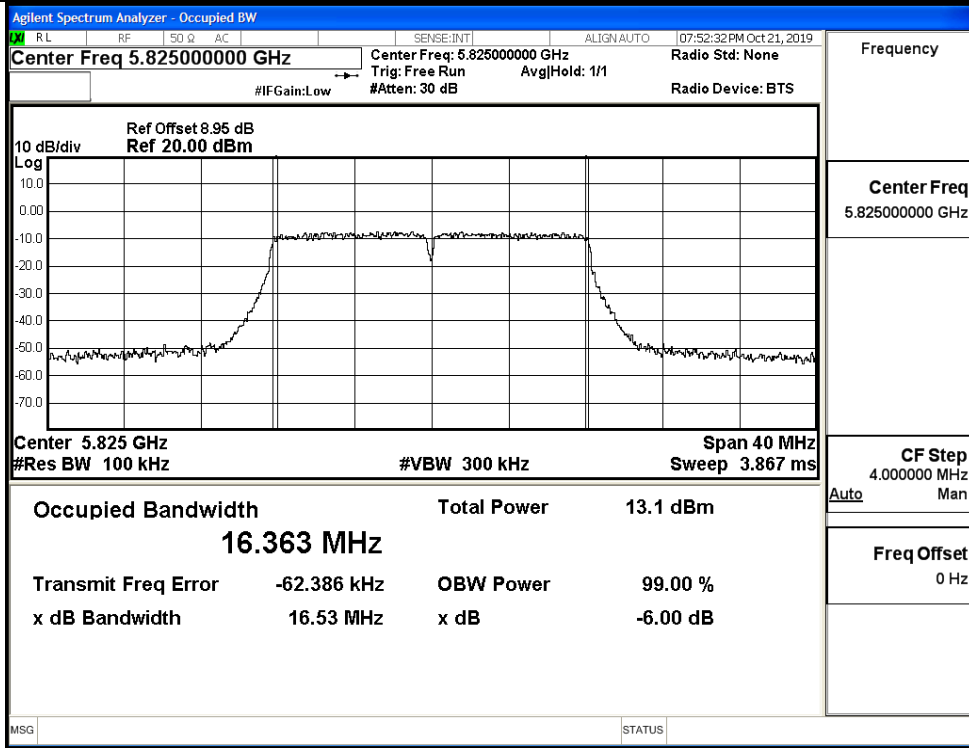
RL	RF	50 Ω	AC	SENSE:INT	ALIGN:AUTO	07:43:58 PM Oct 21, 2019
Center Freq 5.78500000 GHz				Center Freq: 5.78500000 GHz	Trig: Free Run	Avg/Hold: 1/1
#IF Gain: Low				#Atten: 30 dB	Radio Std: None	Radio Device: BTS

10 dB/div  
Ref Offset 8.95 dB  
Ref 20.00 dBm

Center 5.785 GHz	#Res BW 100 kHz	#VBW 300 kHz	Span 40 MHz	Sweep 3.867 ms
<b>Occupied Bandwidth</b>		<b>Total Power</b>	<b>13.1 dBm</b>	
<b>16.362 MHz</b>				
Transmit Freq Error	-62.548 kHz	OBW Power	99.00 %	
x dB Bandwidth	16.52 MHz	x dB	-6.00 dB	

MSG STATUS

IEEE 802.11n20 / Channel 157 / 5785MHz



IEEE 802.11n20 / Channel 165 / 5825MHz

6dB Bandwidth

Agilent Spectrum Analyzer - Occupied BW

RL	RF	50 Ω	AC	SENSE:INT	ALIGN:AUTO	08:14:51 PM Oct 21, 2019
Center Freq 5.755000000 GHz				Center Freq: 5.755000000 GHz	Trig: Free Run	Avg/Hold: 1/1
#IFGain:Low				#Atten: 30 dB	Radio Std: None	Radio Device: BTS

10 dB/div  
Ref Offset 8.95 dB  
Ref 20.00 dBm

Center 5.755 GHz  
#Res BW 100 kHz  
#VBW 300 kHz  
Span 80 MHz  
Sweep 7.667 ms

Occupied Bandwidth	Total Power	11.8 dBm
<b>36.217 MHz</b>		
Transmit Freq Error	-65.522 kHz	OBW Power
x dB Bandwidth	36.59 MHz	x dB
		99.00 %
		-6.00 dB

MSG STATUS

IEEE 802.11n40 / Channel 151 / 5755MHz

Agilent Spectrum Analyzer - Occupied BW

RL	RF	50 Ω	AC	SENSE:INT	ALIGN:AUTO	08:22:01 PM Oct 21, 2019
Center Freq 5.795000000 GHz				Center Freq: 5.795000000 GHz	Trig: Free Run	Avg/Hold: 1/1
#IFGain:Low				#Atten: 30 dB	Radio Std: None	Radio Device: BTS

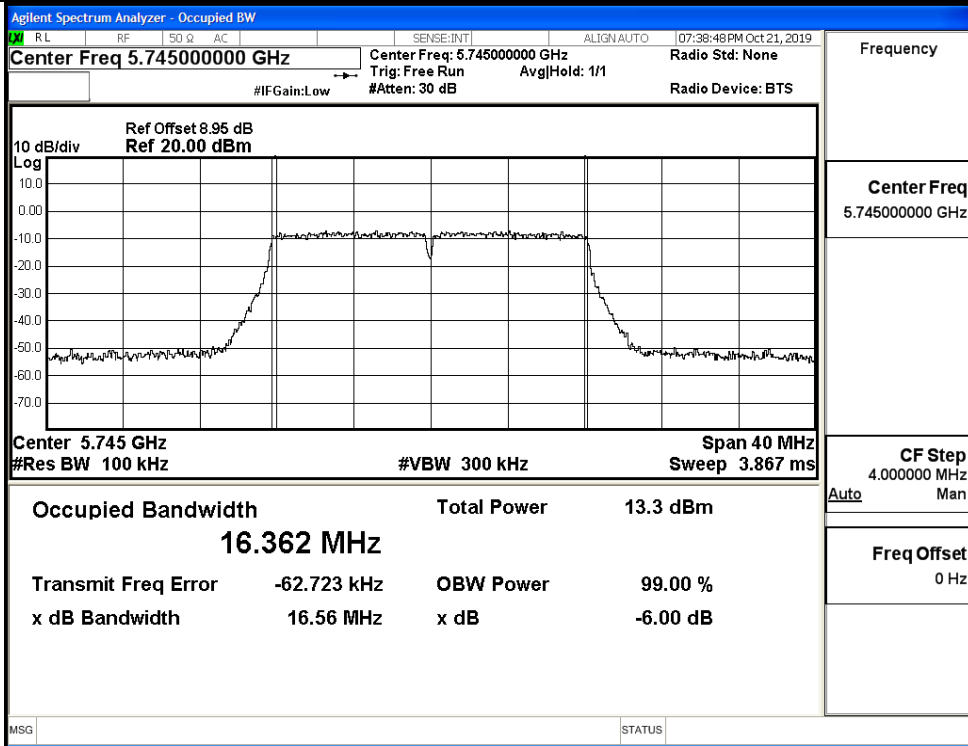
10 dB/div  
Ref Offset 8.95 dB  
Ref 20.00 dBm

Center 5.795 GHz  
#Res BW 100 kHz  
#VBW 300 kHz  
Span 80 MHz  
Sweep 7.667 ms

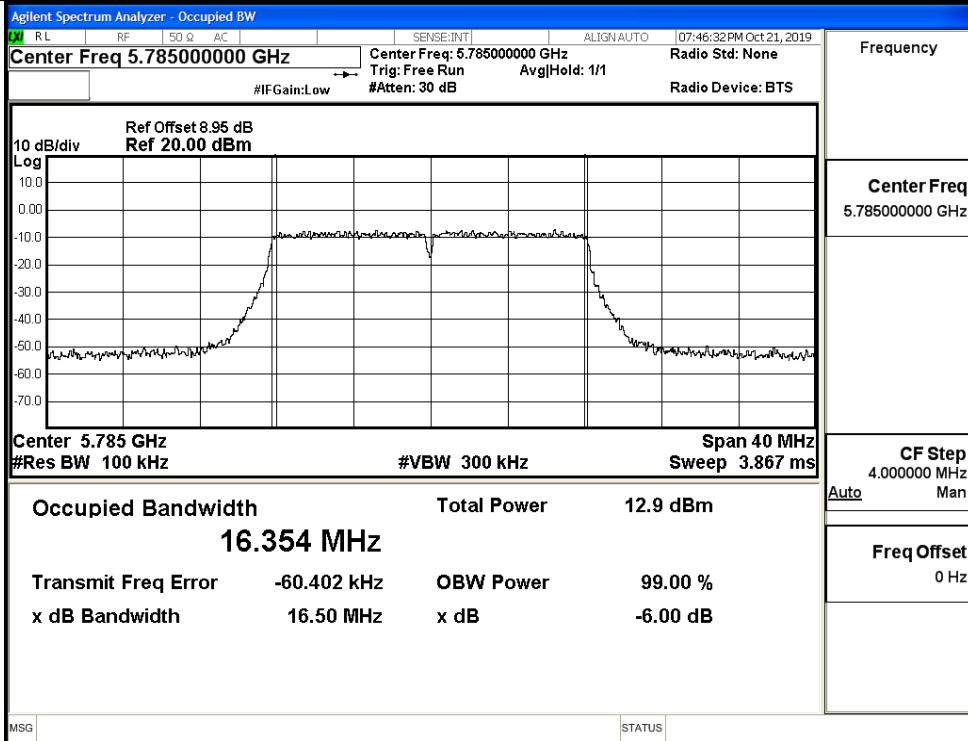
Occupied Bandwidth	Total Power	13.0 dBm
<b>36.214 MHz</b>		
Transmit Freq Error	-56.733 kHz	OBW Power
x dB Bandwidth	36.58 MHz	x dB
		99.00 %
		-6.00 dB

MSG STATUS

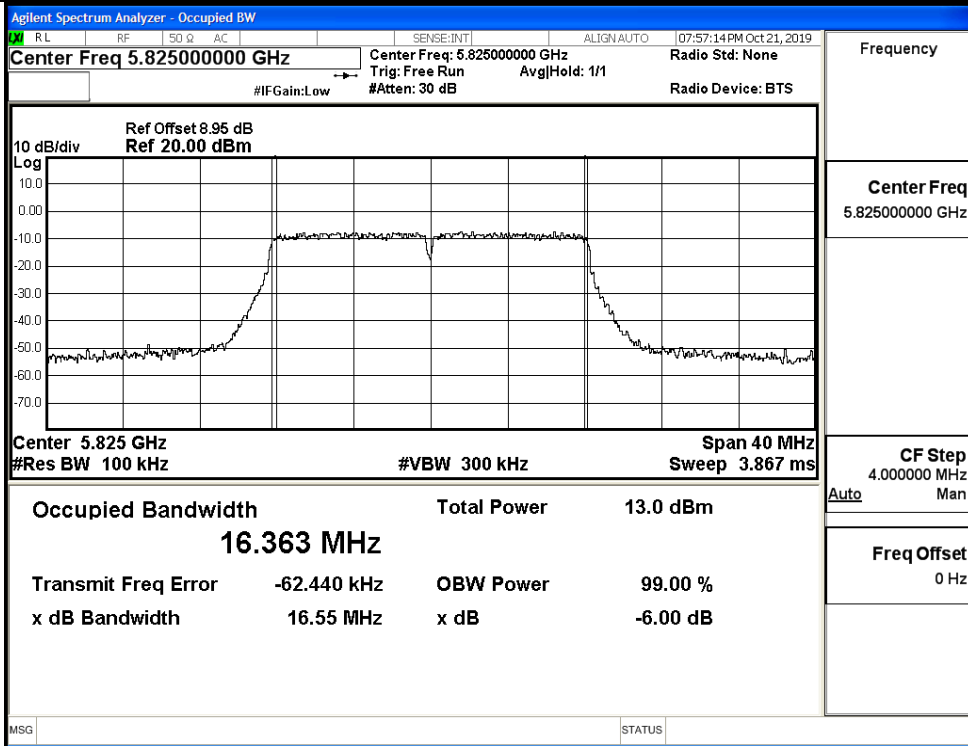
IEEE 802.11n40 / Channel 159 / 5795MHz



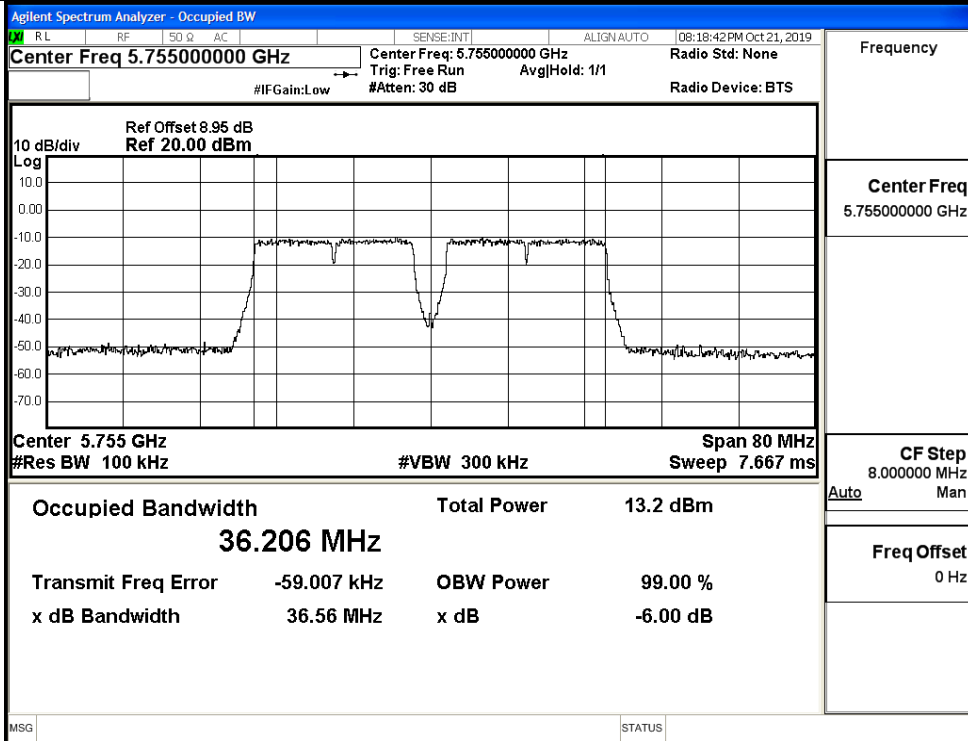
IEEE 802.11ac20 / Channel 149 / 5745MHz



IEEE 802.11ac20 / Channel 157 / 5785MHz

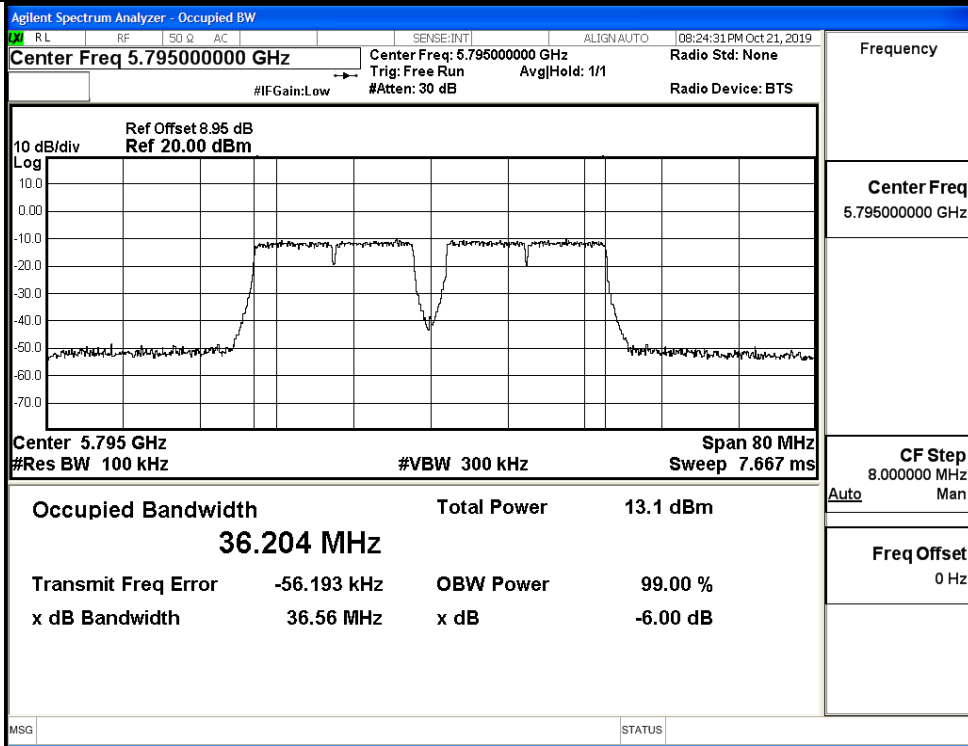


IEEE 802.11ac20 / Channel 165 / 5825MHz

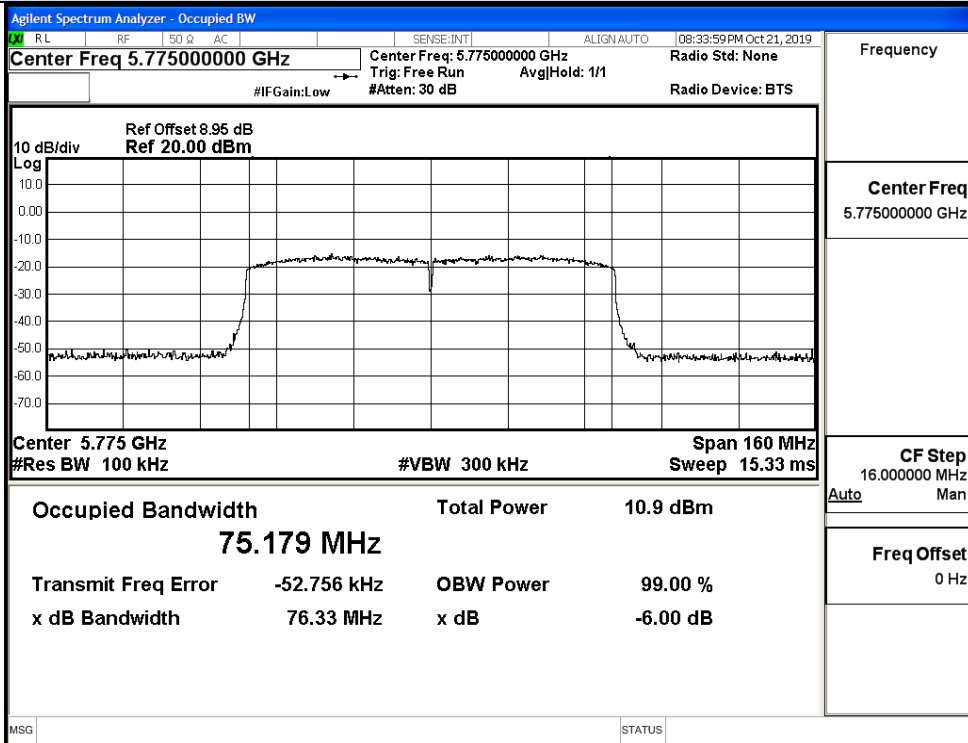


IEEE 802.11ac40 / Channel 151 / 5755MHz



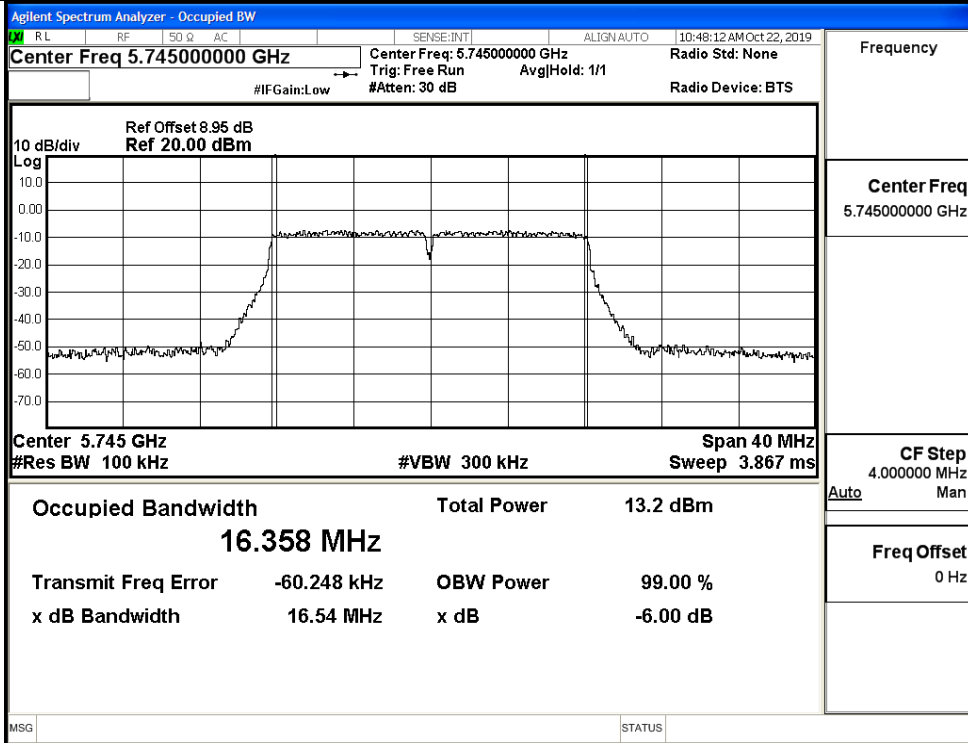


IEEE 802.11ac40 / Channel 159 / 5795MHz

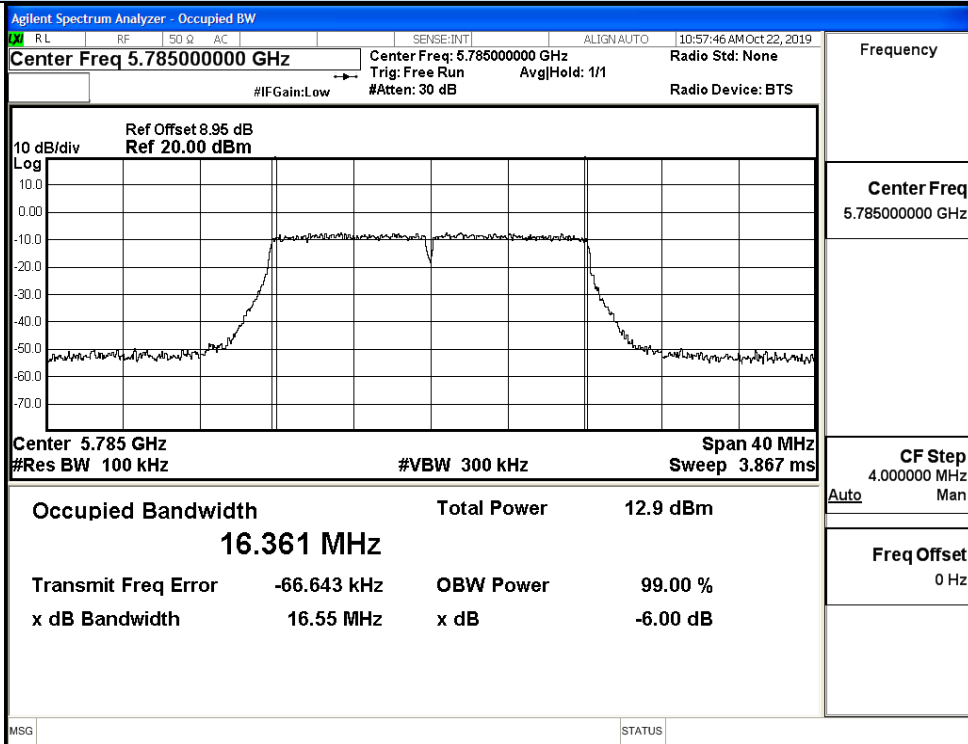


IEEE 802.11ac80 / Channel 155 / 5775MHz

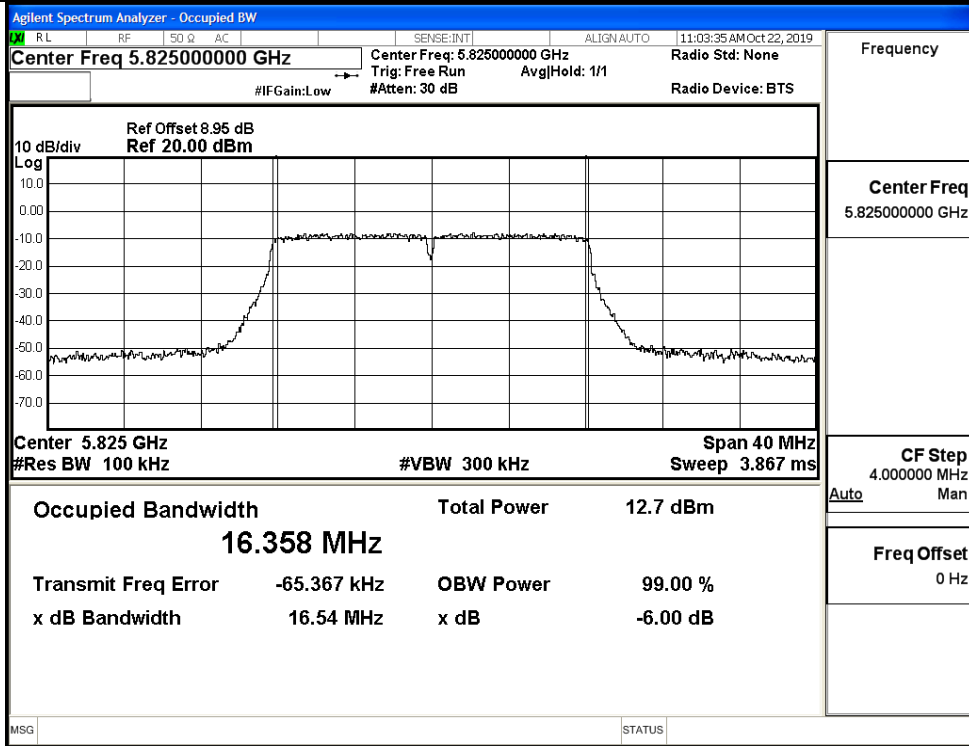
6dB Bandwidth\_ANT\_4



IEEE 802.11a / Channel 149 / 5745MHz

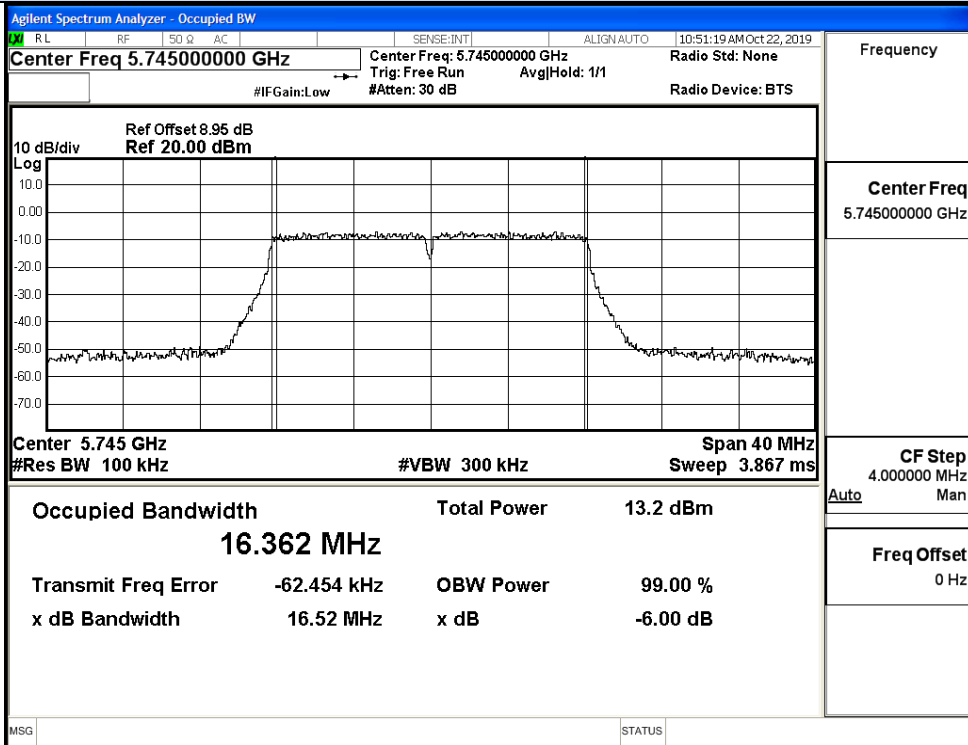


IEEE 802.11a / Channel 157 / 5785MHz

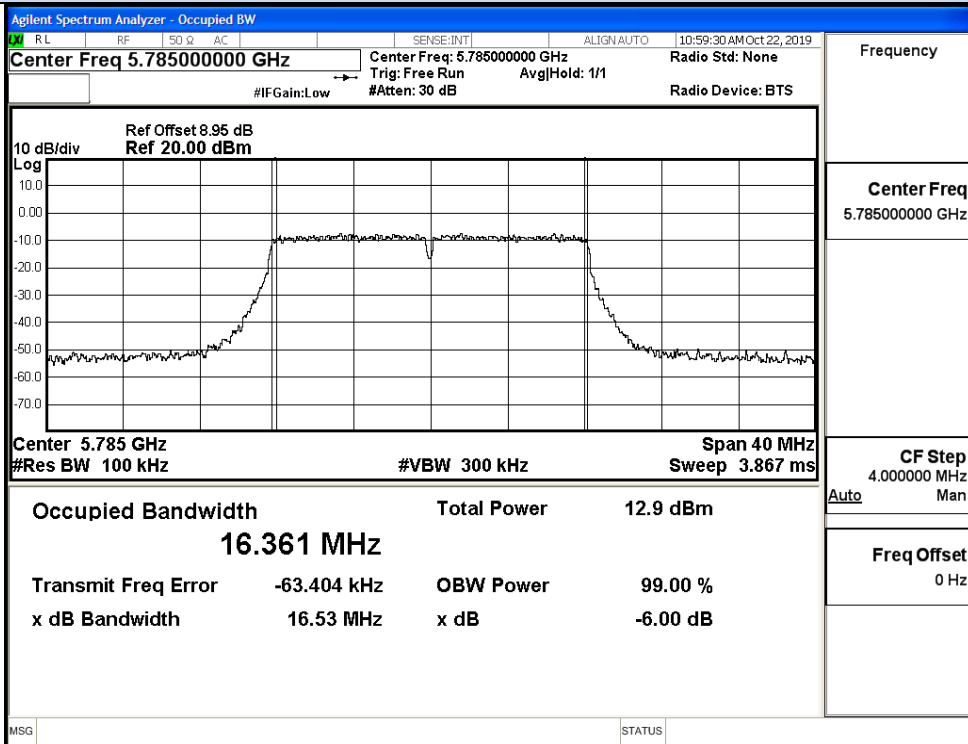


IEEE 802.11a / Channel 165 / 5825MHz

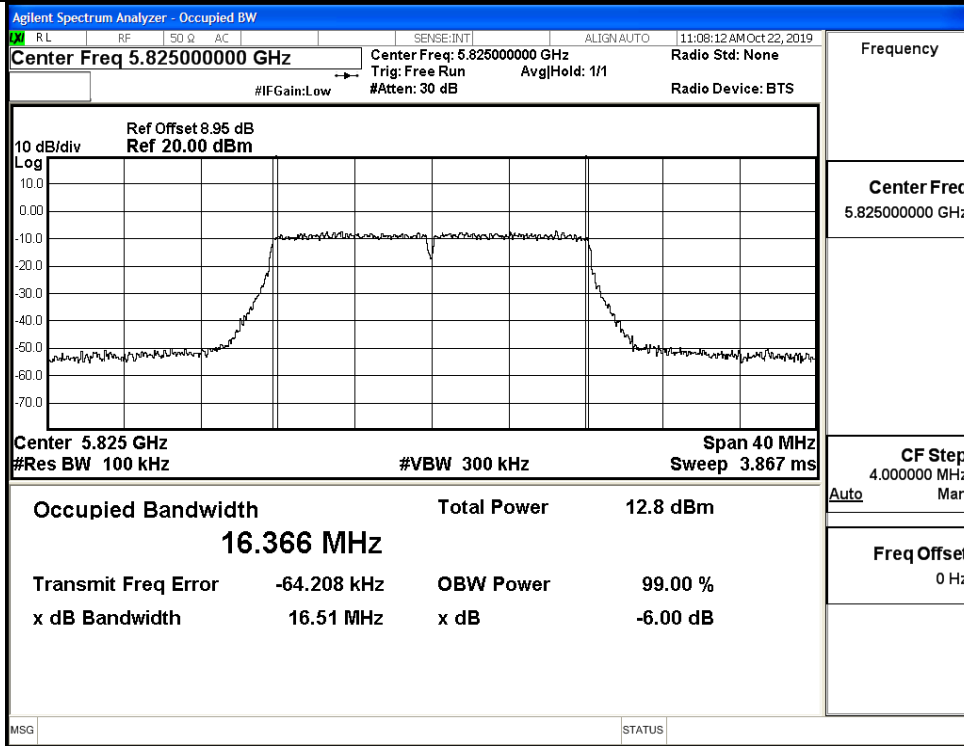
6dB Bandwidth



IEEE 802.11n20 / Channel 149 / 5745MHz

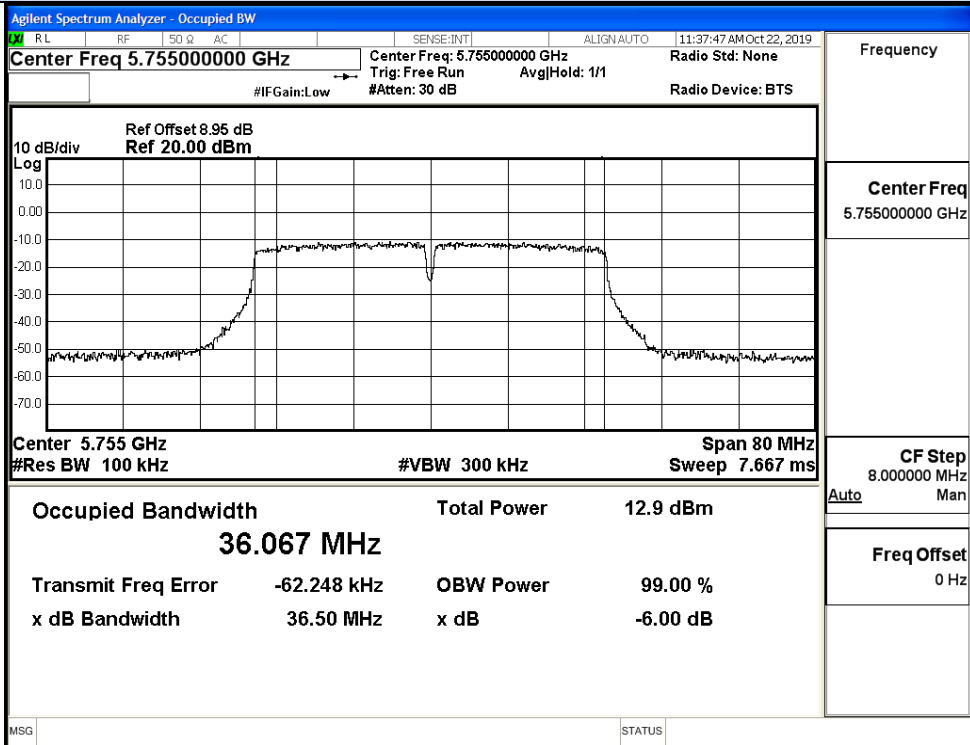


IEEE 802.11n20 / Channel 157 / 5785MHz

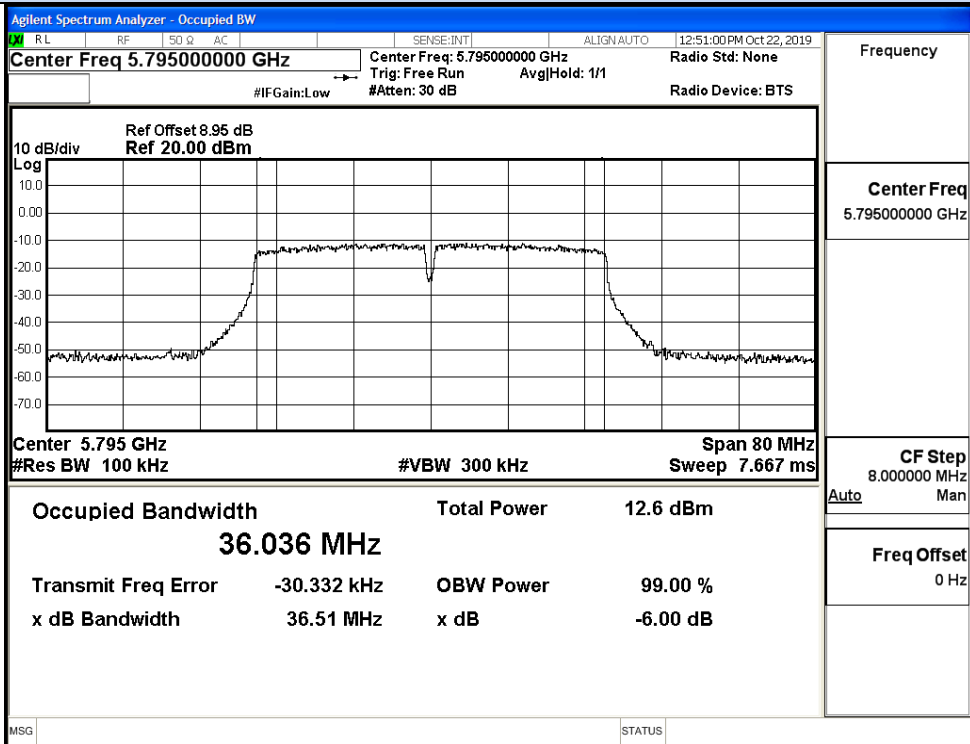


IEEE 802.11n20 / Channel 165 / 5825MHz

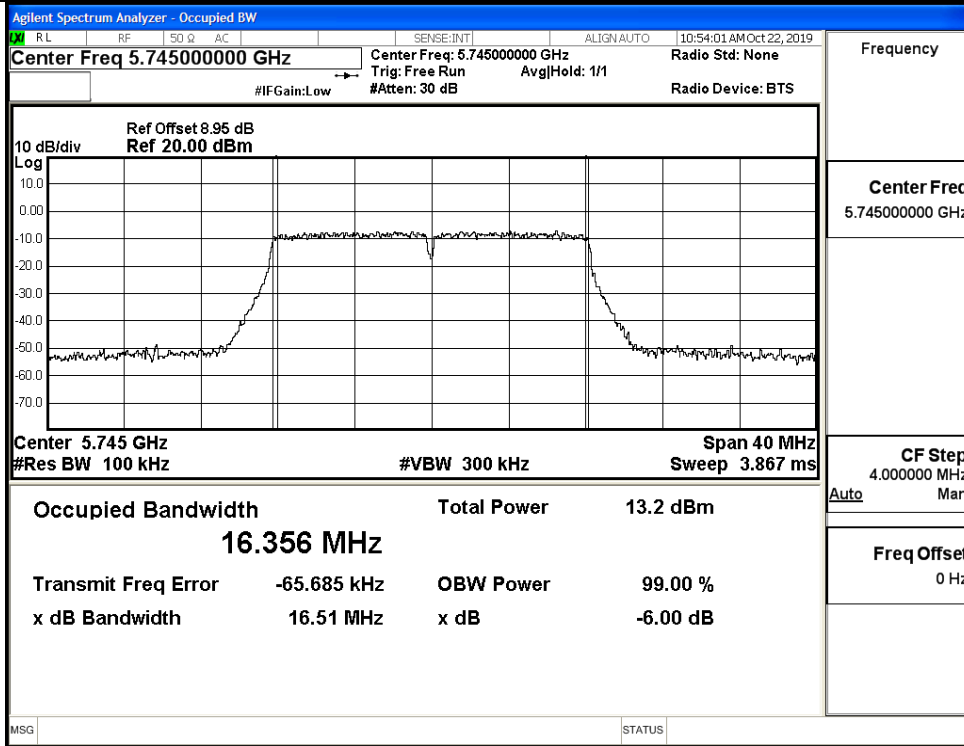
6dB Bandwidth



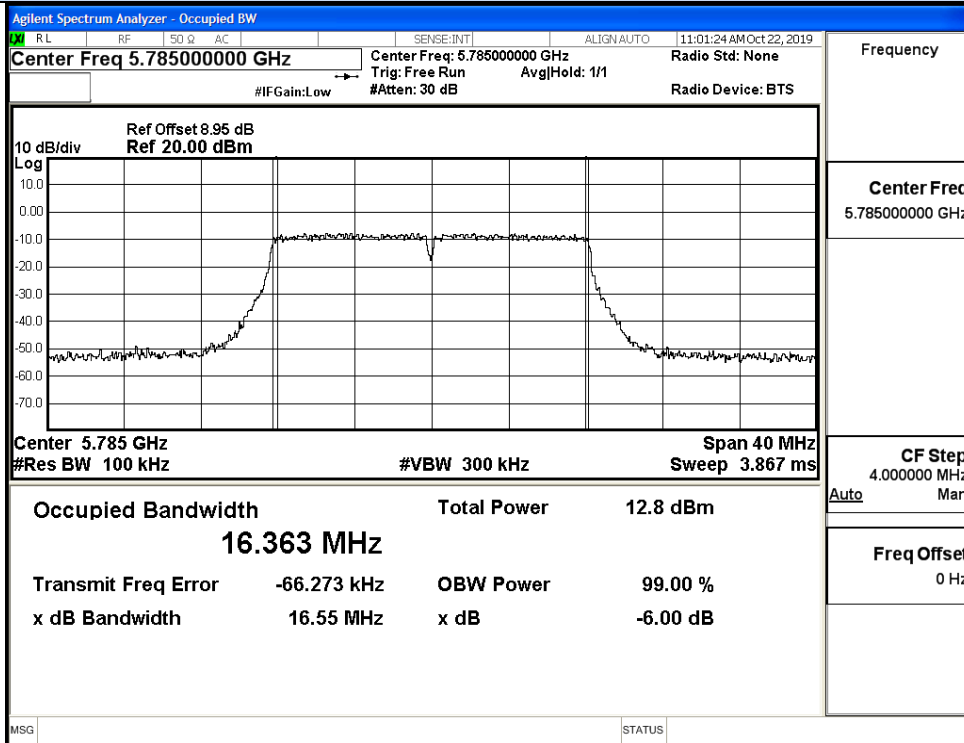
IEEE 802.11n40 / Channel 151 / 5755MHz



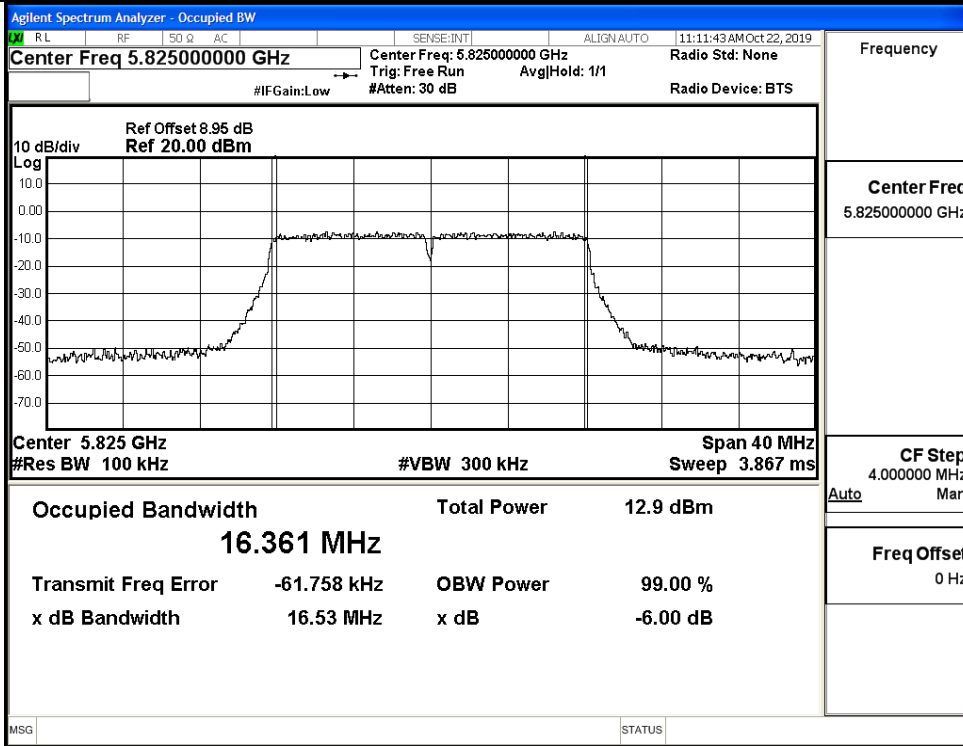
IEEE 802.11n40 / Channel 159 / 5795MHz



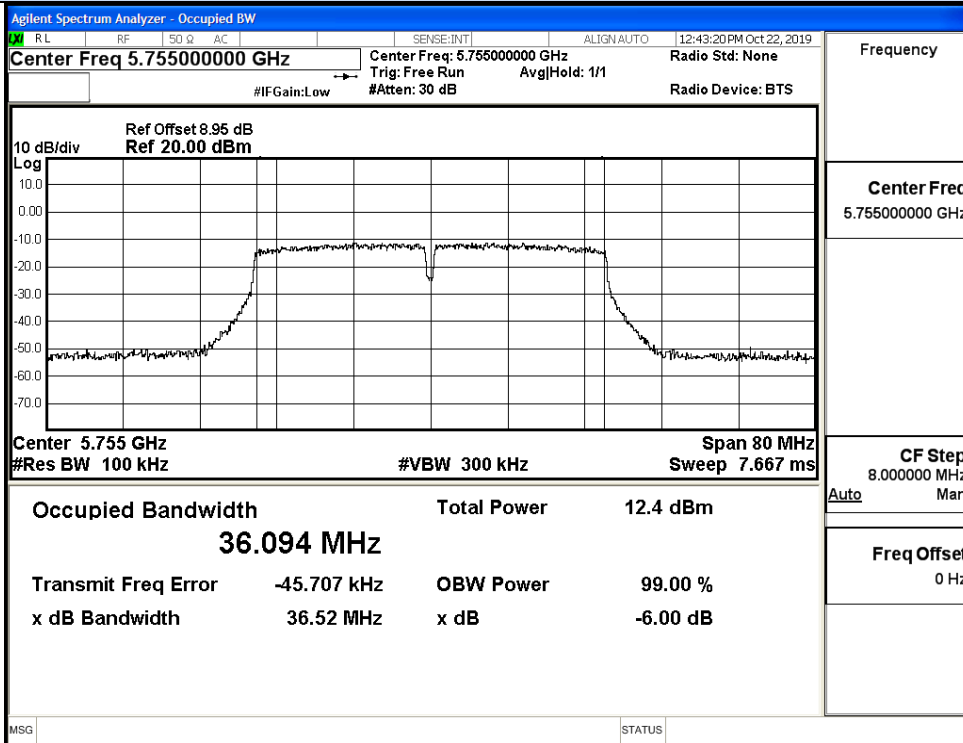
IEEE 802.11ac20 / Channel 149 / 5745MHz



IEEE 802.11ac20 / Channel 157 / 5785MHz

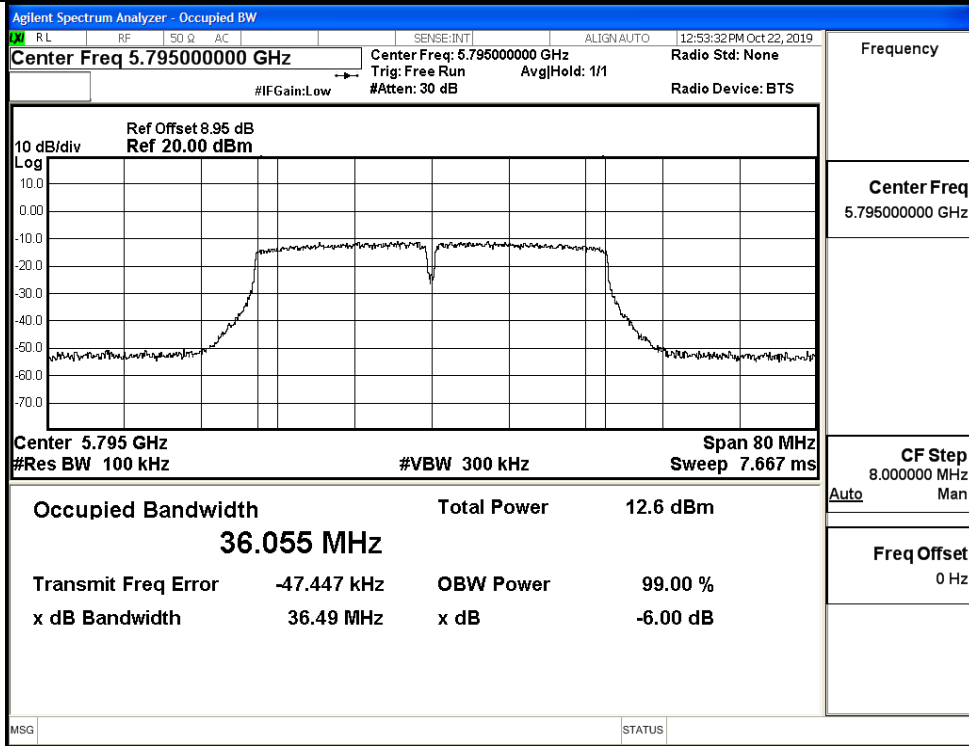


IEEE 802.11ac20 / Channel 165 / 5825MHz

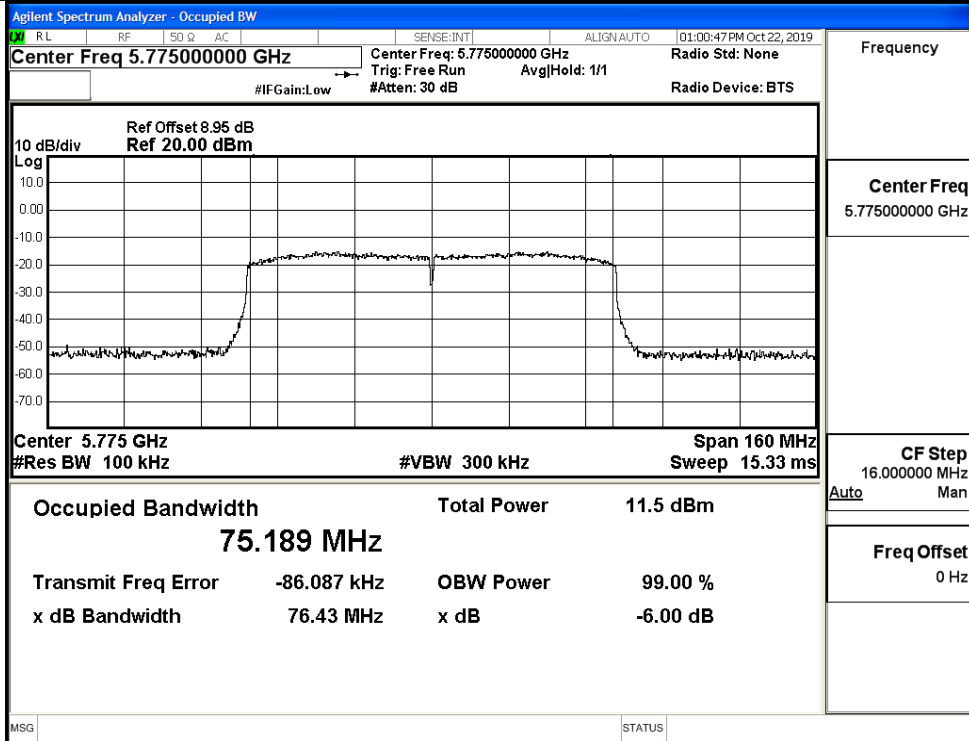


IEEE 802.11ac40 / Channel 151 / 5755MHz





IEEE 802.11ac40 / Channel 159 / 5795MHz



IEEE 802.11ac80 / Channel 155 / 5775MHz

**C.5 Undesirable Emissions Measurement**

**ANT\_3**

Test Mode	Channel	Frequency (MHz)	Conducted Power (dBm)	Antenna Gain (dBi)	EIRP (dBm/MHz)	Detector	Limit (dBm/MHz)	Verdict
11A	149	5650.0	-48.92	3.00	-45.92	Peak	-27.0	Pass
		5650.0	-60.91	3.00	-57.91	Average	-27.0	Pass
		5700.0	-48.43	3.00	-45.43	Peak	10	Pass
		5700.0	-60.14	3.00	-57.14	Average	10	Pass
		5720.0	-47.24	3.00	-44.24	Peak	15.6	Pass
		5720.0	-59.57	3.00	-56.57	Average	15.6	Pass
		5725.0	-45.61	3.00	-42.61	Peak	27.0	Pass
	5725.0	-58.44	3.00	-55.44	Average	27.0	Pass	
	165	5850.0	-48.61	3.00	-45.61	Peak	27.0	Pass
		5850.0	-59.78	3.00	-56.78	Average	27.0	Pass
		5855.0	-47.41	3.00	-44.41	Peak	15.6	Pass
		5855.0	-60.17	3.00	-57.17	Average	15.6	Pass
		5875.0	-48.75	3.00	-45.75	Peak	10	Pass
		5875.0	-60.86	3.00	-57.86	Average	10	Pass
5925.0		-49.37	3.00	-46.37	Peak	-27.0	Pass	
5925.0	-61.38	3.00	-58.38	Average	-27.0	Pass		
11N20 SISO	149	5650.0	-48.04	3.00	-45.04	Peak	-27.0	Pass
		5650.0	-60.91	3.00	-57.91	Average	-27.0	Pass
		5700.0	-47.97	3.00	-44.97	Peak	10	Pass
		5700.0	-59.58	3.00	-56.58	Average	10	Pass
		5720.0	-47.53	3.00	-44.53	Peak	15.6	Pass
		5720.0	-60.21	3.00	-57.21	Average	15.6	Pass
		5725.0	-46.29	3.00	-43.29	Peak	27.0	Pass
	5725.0	-58.48	3.00	-55.48	Average	27.0	Pass	
	165	5850.0	-47.37	3.00	-44.37	Peak	27.0	Pass
		5850.0	-59.81	3.00	-56.81	Average	27.0	Pass
		5855.0	-47.95	3.00	-44.95	Peak	15.6	Pass
		5855.0	-60.18	3.00	-57.18	Average	15.6	Pass
		5875.0	-48.22	3.00	-45.22	Peak	10	Pass
		5875.0	-60.86	3.00	-57.86	Average	10	Pass
5925.0		-49.89	3.00	-46.89	Peak	-27.0	Pass	
5925.0	-61.41	3.00	-58.41	Average	-27.0	Pass		

Test Mode	Channel	Frequency (MHz)	Conducted Power (dBm)	Antenna Gain (dBi)	EIRP (dBm/MHz)	Detector	Limit (dBm/MHz)	Verdict
11N40 SISO	151	5650.0	-47.88	3.00	-44.88	Peak	-27.0	Pass
		5650.0	-60.27	3.00	-57.27	Average	-27.0	Pass
		5700.0	-46.31	3.00	-43.31	Peak	10	Pass
		5700.0	-59.15	3.00	-56.15	Average	10	Pass
		5720.0	-42.59	3.00	-39.59	Peak	15.6	Pass
		5720.0	-54.56	3.00	-51.56	Average	15.6	Pass
		5725.0	-43.21	3.00	-40.21	Peak	27.0	Pass
	5725.0	-55.28	3.00	-52.28	Average	27.0	Pass	
	159	5850.0	-47.80	3.00	-44.80	Peak	27.0	Pass
		5850.0	-59.26	3.00	-56.26	Average	27.0	Pass
		5855.0	-47.55	3.00	-44.55	Peak	15.6	Pass
		5855.0	-59.76	3.00	-56.76	Average	15.6	Pass
		5875.0	-49.23	3.00	-46.23	Peak	10	Pass
		5875.0	-60.16	3.00	-57.16	Average	10	Pass
5925.0		-49.48	3.00	-46.48	Peak	-27.0	Pass	
5925.0	-60.71	3.00	-57.71	Average	-27.0	Pass		
11AC20 SISO	149	5650.0	-48.50	3.00	-45.50	Peak	-27.0	Pass
		5650.0	-60.94	3.00	-57.94	Average	-27.0	Pass
		5700.0	-48.60	3.00	-45.60	Peak	10	Pass
		5700.0	-59.49	3.00	-56.49	Average	10	Pass
		5720.0	-46.92	3.00	-43.92	Peak	15.6	Pass
		5720.0	-60.13	3.00	-57.13	Average	15.6	Pass
		5725.0	-45.42	3.00	-42.42	Peak	27.0	Pass
	5725.0	-58.50	3.00	-55.50	Average	27.0	Pass	
	165	5850.0	-48.53	3.00	-45.53	Peak	27.0	Pass
		5850.0	-59.82	3.00	-56.82	Average	27.0	Pass
		5855.0	-46.67	3.00	-43.67	Peak	15.6	Pass
		5855.0	-60.17	3.00	-57.17	Average	15.6	Pass
		5875.0	-48.69	3.00	-45.69	Peak	10	Pass

11AC4 0 SISO	151	5875.0	-60.89	3.00	-57.89	Average	10	Pass
		5925.0	-49.30	3.00	-46.30	Peak	-27.0	Pass
		5925.0	-61.38	3.00	-58.38	Average	-27.0	Pass
		5650.0	-48.53	3.00	-45.53	Peak	-27.0	Pass
		5650.0	-60.28	3.00	-57.28	Average	-27.0	Pass
		5700.0	-46.64	3.00	-43.64	Peak	10	Pass
		5700.0	-59.16	3.00	-56.16	Average	10	Pass
		5720.0	-42.05	3.00	-39.05	Peak	15.6	Pass
		5720.0	-54.50	3.00	-51.50	Average	15.6	Pass
	159	5725.0	-43.43	3.00	-40.43	Peak	27.0	Pass
		5725.0	-55.21	3.00	-52.21	Average	27.0	Pass
		5850.0	-47.79	3.00	-44.79	Peak	27.0	Pass
		5850.0	-59.27	3.00	-56.27	Average	27.0	Pass
		5855.0	-48.53	3.00	-45.53	Peak	15.6	Pass
		5855.0	-59.77	3.00	-56.77	Average	15.6	Pass
		5875.0	-48.14	3.00	-45.14	Peak	10	Pass
		5875.0	-60.17	3.00	-57.17	Average	10	Pass
		5925.0	-49.43	3.00	-46.43	Peak	-27.0	Pass
11AC8 0 SISO	155	5925.0	-60.71	3.00	-57.71	Average	-27.0	Pass
		5725.0	-48.16	3.00	-45.16	Peak	27.0	Pass
		5720.0	-47.83	3.00	-44.83	Peak	15.6	Pass
		5700.0	-48.72	3.00	-45.72	Peak	10	Pass
		5650.0	-49.34	3.00	-46.34	Peak	-27.0	Pass
		5725.0	-59.78	3.00	-56.78	Average	27.0	Pass
		5720.0	-59.93	3.00	-56.93	Average	15.6	Pass
		5700.0	-60.33	3.00	-57.33	Average	10	Pass
		5650.0	-60.65	3.00	-57.65	Average	-27.0	Pass
	155	5850.0	-48.16	3.00	-45.16	Peak	27.0	Pass
		5855.0	-47.83	3.00	-44.83	Peak	15.6	Pass
		5875.0	-48.72	3.00	-45.72	Peak	10	Pass
		5925.0	-49.34	3.00	-46.34	Peak	-27.0	Pass
		5850.0	-59.78	3.00	-56.78	Average	27.0	Pass
		5855.0	-59.93	3.00	-56.93	Average	15.6	Pass
		5875.0	-60.33	3.00	-57.33	Average	10	Pass
		5925.0	-60.65	3.00	-57.65	Average	-27.0	Pass
		5925.0	-60.65	3.00	-57.65	Average	-27.0	Pass

ANT\_4

Test Mode	Channel	Frequency (MHz)	Conducted Power (dBm)	Antenna Gain (dBi)	EIRP (dBm/MHz)	Detector	Limit (dBm/MHz)	Verdict	
11A	149	5650.0	-49.72	3.00	-46.72	Peak	-27.0	Pass	
		5650.0	-60.99	3.00	-57.99	Average	-27.0	Pass	
		5700.0	-47.14	3.00	-44.14	Peak	10	Pass	
		5700.0	-60.13	3.00	-57.13	Average	10	Pass	
		5720.0	-48.50	3.00	-45.50	Peak	15.6	Pass	
		5720.0	-59.65	3.00	-56.65	Average	15.6	Pass	
		5725.0	-45.59	3.00	-42.59	Peak	27.0	Pass	
		5725.0	-58.55	3.00	-55.55	Average	27.0	Pass	
		165	5850.0	-48.32	3.00	-45.32	Peak	27.0	Pass
	5850.0		-59.83	3.00	-56.83	Average	27.0	Pass	
	5855.0		-47.52	3.00	-44.52	Peak	15.6	Pass	
	5855.0		-60.16	3.00	-57.16	Average	15.6	Pass	
	5875.0		-49.15	3.00	-46.15	Peak	10	Pass	
	5875.0		-60.94	3.00	-57.94	Average	10	Pass	
	5925.0		-49.74	3.00	-46.74	Peak	-27.0	Pass	
	5925.0		-61.38	3.00	-58.38	Average	-27.0	Pass	
	11N20 SISO		149	5650.0	-49.48	3.00	-46.48	Peak	-27.0
		5650.0		-61.00	3.00	-58.00	Average	-27.0	Pass
5700.0		-47.23		3.00	-44.23	Peak	10	Pass	
5700.0		-59.63		3.00	-56.63	Average	10	Pass	
5720.0		-47.95		3.00	-44.95	Peak	15.6	Pass	
5720.0		-60.16		3.00	-57.16	Average	15.6	Pass	
5725.0		-45.19		3.00	-42.19	Peak	27.0	Pass	
5725.0		-58.53		3.00	-55.53	Average	27.0	Pass	
165		5850.0		-47.44	3.00	-44.44	Peak	27.0	Pass
		5850.0	-59.78	3.00	-56.78	Average	27.0	Pass	
		5855.0	-48.39	3.00	-45.39	Peak	15.6	Pass	
		5855.0	-60.16	3.00	-57.16	Average	15.6	Pass	
		5875.0	-48.71	3.00	-45.71	Peak	10	Pass	
		5875.0	-60.89	3.00	-57.89	Average	10	Pass	

		5925.0	-50.35	3.00	-47.35	Peak	-27.0	Pass
		5925.0	-61.37	3.00	-58.37	Average	-27.0	Pass

Test Mode	Channel	Frequency (MHz)	Conducted Power (dBm)	Antenna Gain (dBi)	EIRP (dBm/MHz)	Detector	Limit (dBm/MHz)	Verdict
11N40 SISO	151	5650.0	-47.95	3.00	-44.95	Peak	-27.0	Pass
		5650.0	-60.23	3.00	-57.23	Average	-27.0	Pass
		5700.0	-48.42	3.00	-45.42	Peak	10	Pass
		5700.0	-59.54	3.00	-56.54	Average	10	Pass
		5720.0	-45.86	3.00	-42.86	Peak	15.6	Pass
		5720.0	-57.26	3.00	-54.26	Average	15.6	Pass
		5725.0	-42.04	3.00	-39.04	Peak	27.0	Pass
	5725.0	-56.19	3.00	-53.19	Average	27.0	Pass	
	159	5850.0	-48.28	3.00	-45.28	Peak	27.0	Pass
		5850.0	-59.59	3.00	-56.59	Average	27.0	Pass
		5855.0	-47.67	3.00	-44.67	Peak	15.6	Pass
		5855.0	-59.82	3.00	-56.82	Average	15.6	Pass
		5875.0	-47.44	3.00	-44.44	Peak	10	Pass
		5875.0	-60.01	3.00	-57.01	Average	10	Pass
5925.0		-47.74	3.00	-44.74	Peak	-27.0	Pass	
5925.0	-60.74	3.00	-57.74	Average	-27.0	Pass		
11AC2 0 SISO	149	5650.0	-48.16	3.00	-45.16	Peak	-27.0	Pass
		5650.0	-60.96	3.00	-57.96	Average	-27.0	Pass
		5700.0	-48.37	3.00	-45.37	Peak	10	Pass
		5700.0	-59.65	3.00	-56.65	Average	10	Pass
		5720.0	-46.80	3.00	-43.80	Peak	15.6	Pass
		5720.0	-60.13	3.00	-57.13	Average	15.6	Pass
		5725.0	-45.85	3.00	-42.85	Peak	27.0	Pass
	5725.0	-58.56	3.00	-55.56	Average	27.0	Pass	
	165	5850.0	-47.20	3.00	-44.20	Peak	27.0	Pass
		5850.0	-59.80	3.00	-56.80	Average	27.0	Pass
		5855.0	-48.13	3.00	-45.13	Peak	15.6	Pass
		5855.0	-60.15	3.00	-57.15	Average	15.6	Pass
		5875.0	-48.99	3.00	-45.99	Peak	10	Pass
		5875.0	-60.86	3.00	-57.86	Average	10	Pass
5925.0		-49.45	3.00	-46.45	Peak	-27.0	Pass	
5925.0	-61.36	3.00	-58.36	Average	-27.0	Pass		
11AC4 0 SISO	151	5650.0	-48.16	3.00	-45.16	Peak	-27.0	Pass
		5650.0	-60.28	3.00	-57.28	Average	-27.0	Pass
		5700.0	-48.41	3.00	-45.41	Peak	10	Pass
		5700.0	-59.57	3.00	-56.57	Average	10	Pass
		5720.0	-43.17	3.00	-40.17	Peak	15.6	Pass
		5720.0	-57.10	3.00	-54.10	Average	15.6	Pass
		5725.0	-43.75	3.00	-40.75	Peak	27.0	Pass
	5725.0	-55.96	3.00	-52.96	Average	27.0	Pass	
	159	5850.0	-48.53	3.00	-45.53	Peak	27.0	Pass
		5850.0	-59.59	3.00	-56.59	Average	27.0	Pass
		5855.0	-48.45	3.00	-45.45	Peak	15.6	Pass
		5855.0	-59.82	3.00	-56.82	Average	15.6	Pass
		5875.0	-48.28	3.00	-45.28	Peak	10	Pass
		5875.0	-60.01	3.00	-57.01	Average	10	Pass
5925.0		-49.24	3.00	-46.24	Peak	-27.0	Pass	
5925.0	-60.70	3.00	-57.70	Average	-27.0	Pass		
11AC8 0 SISO	155	5725.0	-48.46	3.00	-45.46	Peak	27.0	Pass
		5720.0	-47.77	3.00	-44.77	Peak	15.6	Pass
		5700.0	-49.31	3.00	-46.31	Peak	10	Pass
		5650.0	-49.58	3.00	-46.58	Peak	-27.0	Pass
		5725.0	-59.66	3.00	-56.66	Average	27.0	Pass
		5720.0	-59.89	3.00	-56.89	Average	15.6	Pass
		5700.0	-60.17	3.00	-57.17	Average	10	Pass
		5650.0	-60.69	3.00	-57.69	Average	-27.0	Pass
		5850.0	-48.46	3.00	-45.46	Peak	27.0	Pass
		5855.0	-47.77	3.00	-44.77	Peak	15.6	Pass
		5875.0	-49.31	3.00	-46.31	Peak	10	Pass
		5925.0	-49.58	3.00	-46.58	Peak	-27.0	Pass
		5850.0	-59.66	3.00	-56.66	Average	27.0	Pass
		5855.0	-59.89	3.00	-56.89	Average	15.6	Pass
5875.0	-60.17	3.00	-57.17	Average	10	Pass		
5925.0	-60.69	3.00	-57.69	Average	-27.0	Pass		

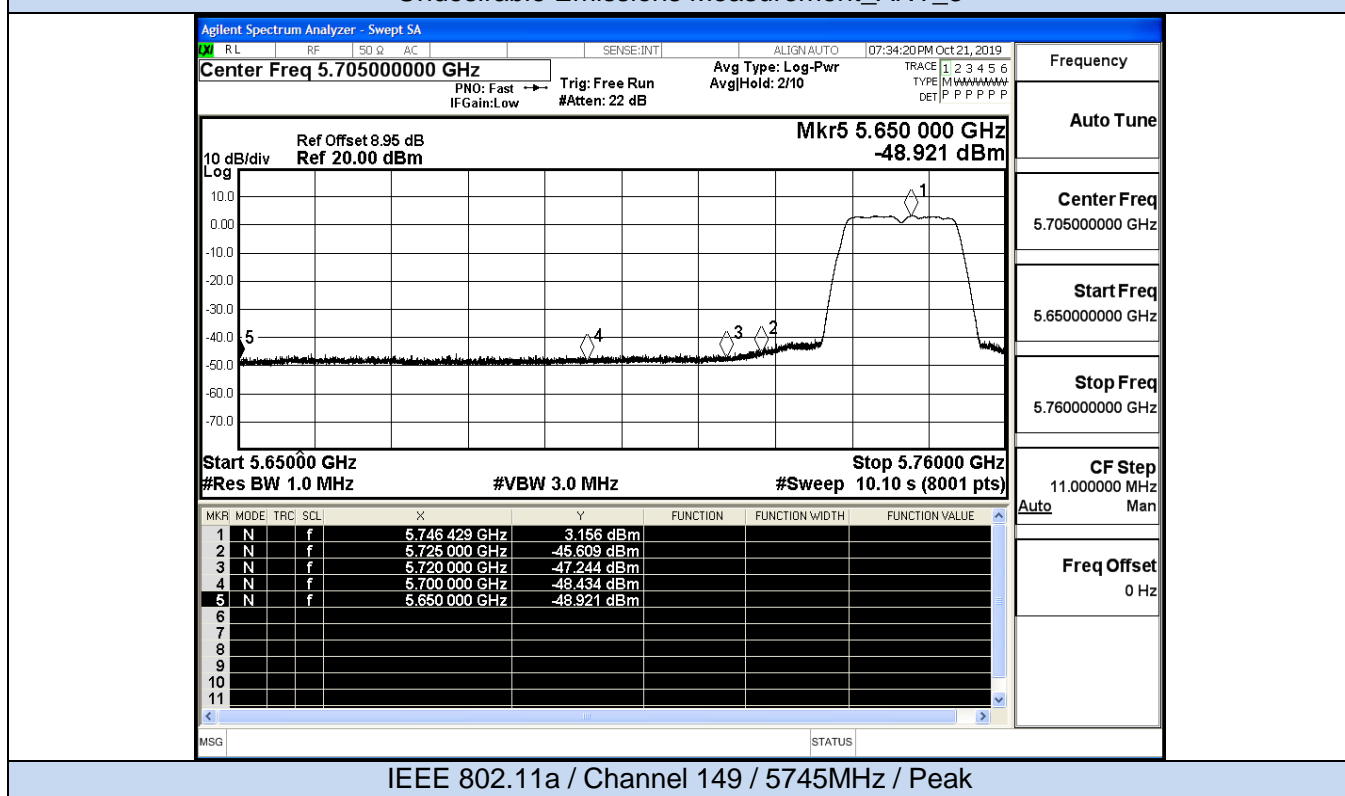
**Combined Ant\_3 and Ant\_4**

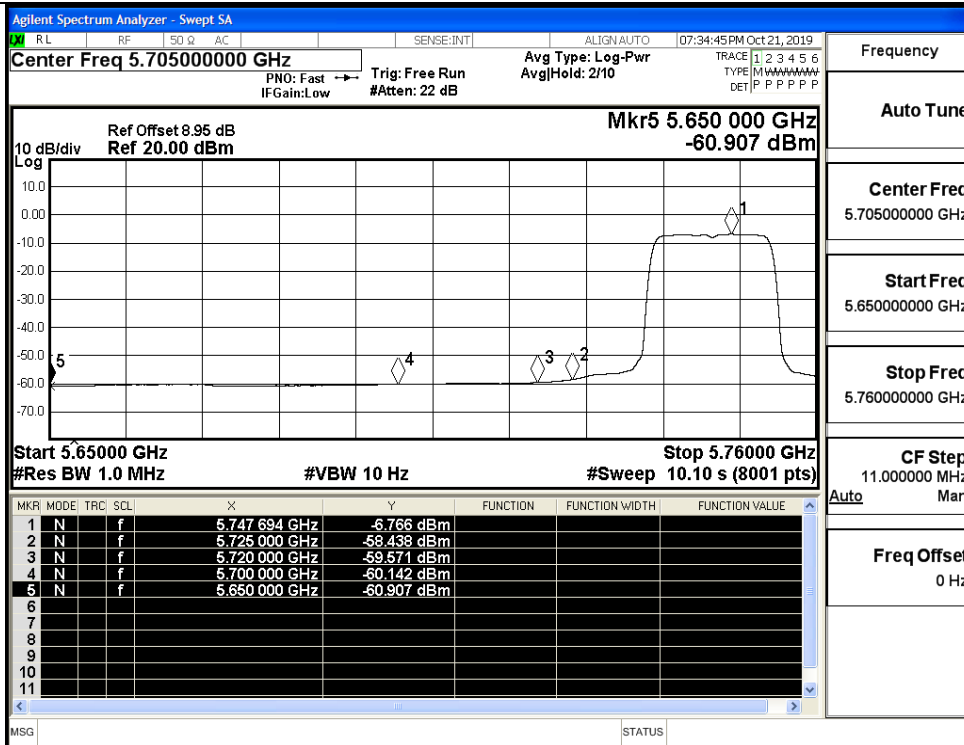
Test Mode	Channel	Frequency (MHz)	Conducted Power (dBm)			Directional Gain [dBi]	EIRP (dBm/MHz)	Detector	Limit (dBm/MHz)	Verdict
			Ant_3	Ant_4	Sum					
11N20	149	5650.0	-48.04	-49.48	-45.69	6.01	-39.68	Peak	-27.0	Pass
		5650.0	-60.91	-61.00	-57.94	6.01	-51.93	Average	-27.0	Pass
		5700.0	-47.97	-47.23	-44.57	6.01	-38.56	Peak	10	Pass
		5700.0	-59.58	-59.63	-56.59	6.01	-50.58	Average	10	Pass
		5720.0	-47.53	-47.95	-44.72	6.01	-38.71	Peak	15.6	Pass
		5720.0	-60.21	-60.16	-57.17	6.01	-51.16	Average	15.6	Pass
		5725.0	-46.29	-45.19	-42.69	6.01	-36.68	Peak	27.0	Pass
	5725.0	-58.48	-58.53	-55.49	6.01	-49.48	Average	27.0	Pass	
	165	5850.0	-47.37	-47.44	-44.39	6.01	-38.38	Peak	27.0	Pass
		5850.0	-59.81	-59.78	-56.78	6.01	-50.77	Average	27.0	Pass
		5855.0	-47.95	-48.39	-45.15	6.01	-39.14	Peak	15.6	Pass
		5855.0	-60.18	-60.16	-57.16	6.01	-51.15	Average	15.6	Pass
		5875.0	-48.22	-48.71	-45.45	6.01	-39.44	Peak	10	Pass
		5875.0	-60.86	-60.89	-57.86	6.01	-51.85	Average	10	Pass
5925.0		-49.89	-50.35	-47.10	6.01	-41.09	Peak	-27.0	Pass	
5925.0	-61.41	-61.37	-58.38	6.01	-52.37	Average	-27.0	Pass		

Test Mode	Channel	Frequency (MHz)	Conducted Power (dBm)			Directional Gain [dBi]	EIRP (dBm/MHz)	Detector	Limit (dBm/MHz)	Verdict
			Ant_3	Ant_4	Sum					
11N40	151	5650.0	-47.88	-47.95	-44.90	6.01	-38.89	Peak	-27.0	Pass
		5650.0	-60.27	-60.23	-57.24	6.01	-51.23	Average	-27.0	Pass
		5700.0	-46.31	-48.42	-44.23	6.01	-38.22	Peak	10	Pass
		5700.0	-59.15	-59.54	-56.33	6.01	-50.32	Average	10	Pass
		5720.0	-42.59	-45.86	-40.91	6.01	-34.90	Peak	15.6	Pass
		5720.0	-54.56	-57.26	-52.69	6.01	-46.68	Average	15.6	Pass
		5725.0	-43.21	-42.04	-39.58	6.01	-33.57	Peak	27.0	Pass
	5725.0	-55.28	-56.19	-52.70	6.01	-46.69	Average	27.0	Pass	
	159	5850.0	-47.80	-48.28	-45.02	6.01	-39.01	Peak	27.0	Pass
		5850.0	-59.26	-59.59	-56.41	6.01	-50.40	Average	27.0	Pass
		5855.0	-47.55	-47.67	-44.60	6.01	-38.59	Peak	15.6	Pass
		5855.0	-59.76	-59.82	-56.78	6.01	-50.77	Average	15.6	Pass
		5875.0	-49.23	-47.44	-45.23	6.01	-39.22	Peak	10	Pass
		5875.0	-60.16	-60.01	-57.07	6.01	-51.06	Average	10	Pass
5925.0		-49.48	-47.74	-45.51	6.01	-39.50	Peak	-27.0	Pass	
5925.0	-60.71	-60.74	-57.71	6.01	-51.70	Average	-27.0	Pass		
11AC20	149	5650.0	-48.50	-48.16	-45.32	6.01	-39.31	Peak	-27.0	Pass
		5650.0	-60.94	-60.96	-57.94	6.01	-51.93	Average	-27.0	Pass
		5700.0	-48.60	-48.37	-45.47	6.01	-39.46	Peak	10	Pass
		5700.0	-59.49	-59.65	-56.56	6.01	-50.55	Average	10	Pass
		5720.0	-46.92	-46.80	-43.85	6.01	-37.84	Peak	15.6	Pass
		5720.0	-60.13	-60.13	-57.12	6.01	-51.11	Average	15.6	Pass
		5725.0	-45.42	-45.85	-42.62	6.01	-36.61	Peak	27.0	Pass
	5725.0	-58.50	-58.56	-55.52	6.01	-49.51	Average	27.0	Pass	
	165	5850.0	-48.53	-47.20	-44.80	6.01	-38.79	Peak	27.0	Pass
		5850.0	-59.82	-59.80	-56.80	6.01	-50.79	Average	27.0	Pass
		5855.0	-46.67	-48.13	-44.33	6.01	-38.32	Peak	15.6	Pass
		5855.0	-60.17	-60.15	-57.15	6.01	-51.14	Average	15.6	Pass
		5875.0	-48.69	-48.99	-45.83	6.01	-39.82	Peak	10	Pass
		5875.0	-60.89	-60.86	-57.86	6.01	-51.85	Average	10	Pass
5925.0		-49.30	-49.45	-46.36	6.01	-40.35	Peak	-27.0	Pass	
5925.0	-61.38	-61.36	-58.36	6.01	-52.35	Average	-27.0	Pass		
11AC40	151	5650.0	-48.53	-48.16	-45.33	6.01	-39.32	Peak	-27.0	Pass
		5650.0	-60.28	-60.28	-57.27	6.01	-51.26	Average	-27.0	Pass
		5700.0	-46.64	-48.41	-44.43	6.01	-38.42	Peak	10	Pass
		5700.0	-59.16	-59.57	-56.35	6.01	-50.34	Average	10	Pass
		5720.0	-42.05	-43.17	-39.56	6.01	-33.55	Peak	15.6	Pass
		5720.0	-54.50	-57.10	-52.60	6.01	-46.59	Average	15.6	Pass
		5725.0	-43.43	-43.75	-40.58	6.01	-34.57	Peak	27.0	Pass
	5725.0	-55.21	-55.96	-52.56	6.01	-46.55	Average	27.0	Pass	
	159	5850.0	-47.79	-48.53	-45.13	6.01	-39.12	Peak	27.0	Pass
		5850.0	-59.27	-59.59	-56.42	6.01	-50.41	Average	27.0	Pass
		5855.0	-48.53	-48.45	-45.48	6.01	-39.47	Peak	15.6	Pass
		5855.0	-59.77	-59.82	-56.78	6.01	-50.77	Average	15.6	Pass
		5875.0	-48.14	-48.28	-45.20	6.01	-39.19	Peak	10	Pass

11AC8 0	155	5875.0	-60.17	-60.01	-57.08	6.01	-51.07	Average	10	Pass
		5925.0	-49.43	-49.24	-46.32	6.01	-40.31	Peak	-27.0	Pass
		5925.0	-60.71	-60.70	-57.69	6.01	-51.68	Average	-27.0	Pass
		5725.0	-48.16	-48.46	-45.30	6.01	-39.29	Peak	27.0	Pass
		5720.0	-47.83	-47.77	-44.79	6.01	-38.78	Peak	15.6	Pass
		5700.0	-48.72	-49.31	-45.99	6.01	-39.98	Peak	10	Pass
		5650.0	-49.34	-49.58	-46.45	6.01	-40.44	Peak	-27.0	Pass
		5725.0	-59.78	-59.66	-56.71	6.01	-50.70	Average	27.0	Pass
		5720.0	-59.93	-59.89	-56.90	6.01	-50.89	Average	15.6	Pass
		5700.0	-60.33	-60.17	-57.24	6.01	-51.23	Average	10	Pass
		5650.0	-60.65	-60.69	-57.66	6.01	-51.65	Average	-27.0	Pass
		5850.0	-48.16	-48.46	-45.30	6.01	-39.29	Peak	27.0	Pass
		5855.0	-47.83	-47.77	-44.79	6.01	-38.78	Peak	15.6	Pass
		5875.0	-48.72	-49.31	-45.99	6.01	-39.98	Peak	10	Pass
		5925.0	-49.34	-49.58	-46.45	6.01	-40.44	Peak	-27.0	Pass
		5850.0	-59.78	-59.66	-56.71	6.01	-50.70	Average	27.0	Pass
		5855.0	-59.93	-59.89	-56.90	6.01	-50.89	Average	15.6	Pass
		5875.0	-60.33	-60.17	-57.24	6.01	-51.23	Average	10	Pass
5925.0	-60.65	-60.69	-57.66	6.01	-51.65	Average	-27.0	Pass		

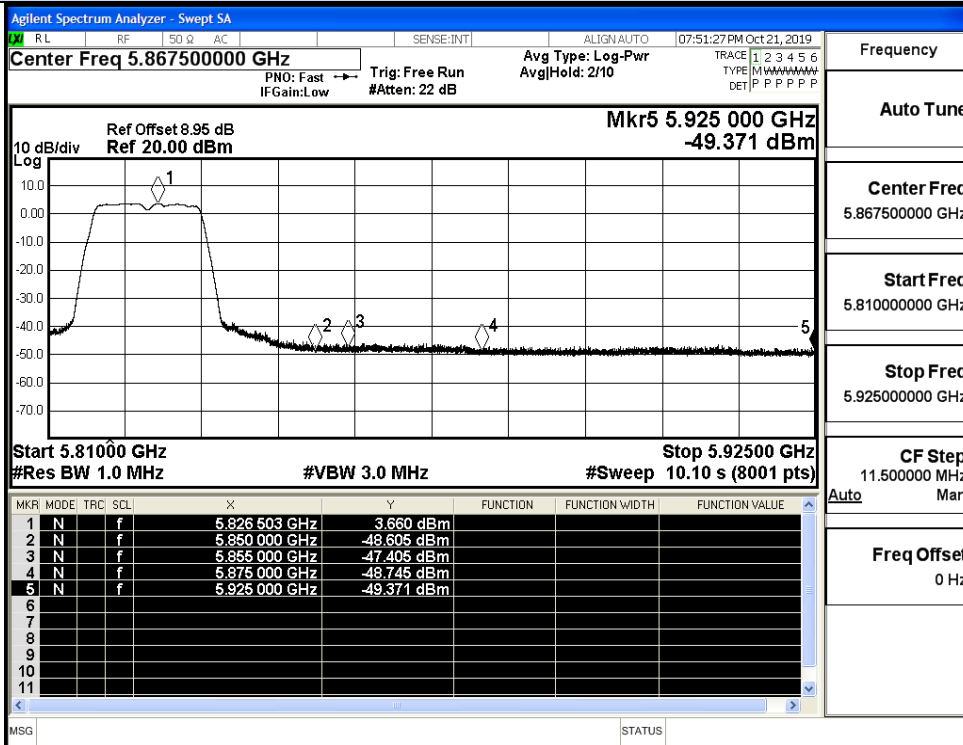
Undesirable Emissions Measurement\_ANT\_3



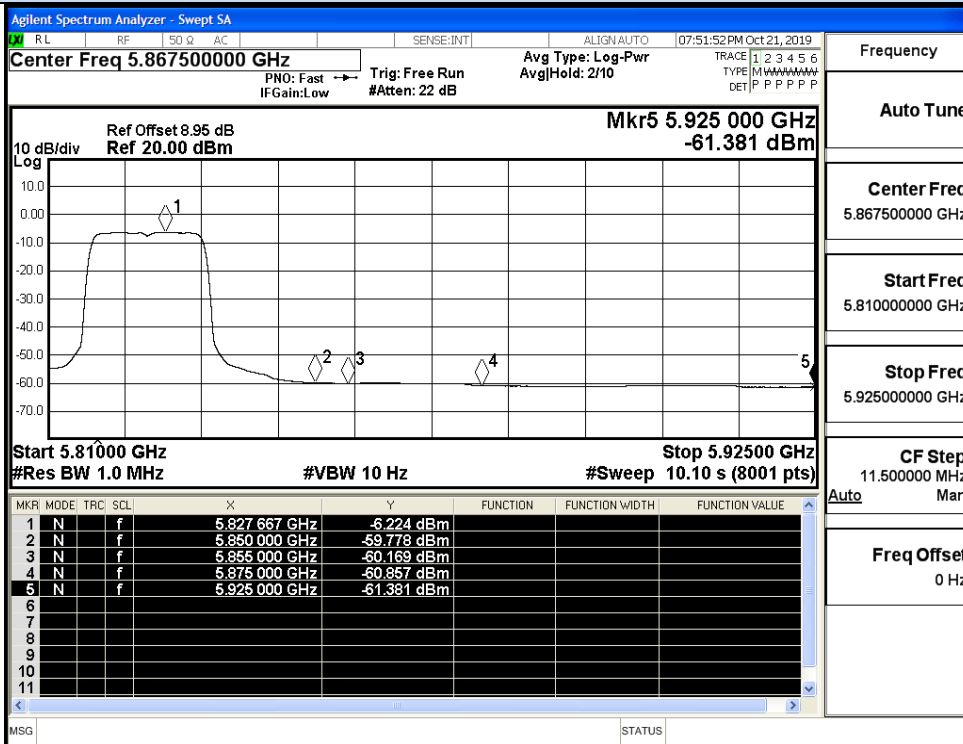


IEEE 802.11a / Channel 148 / 5745MHz / Average

Undesirable Emissions Measurement



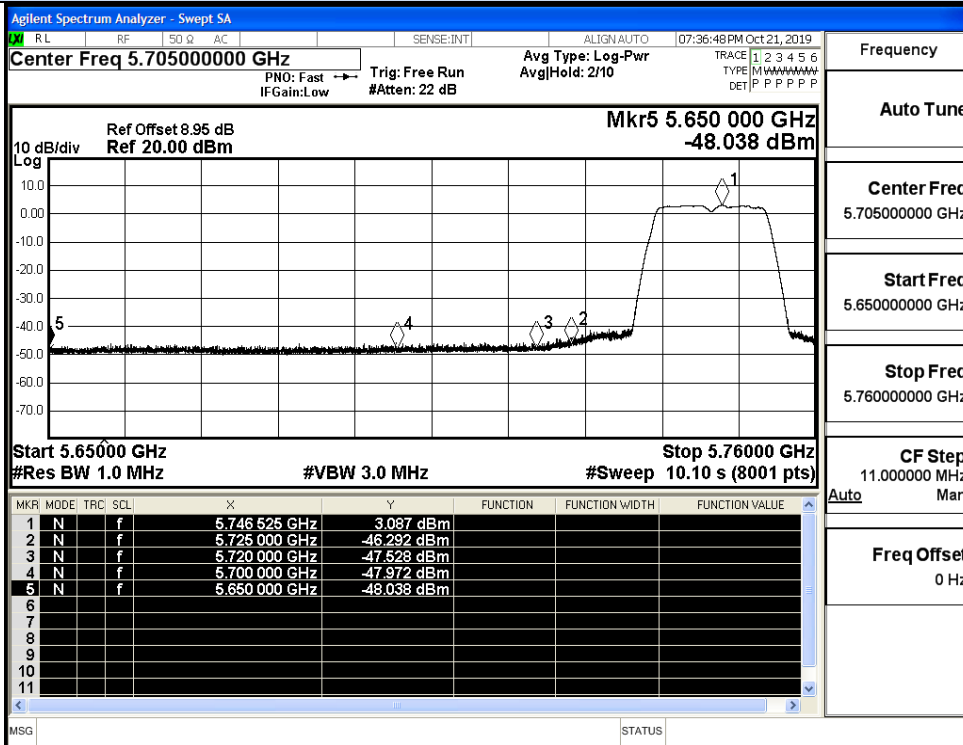
IEEE 802.11a / Channel 165 / 5825MHz / Peak



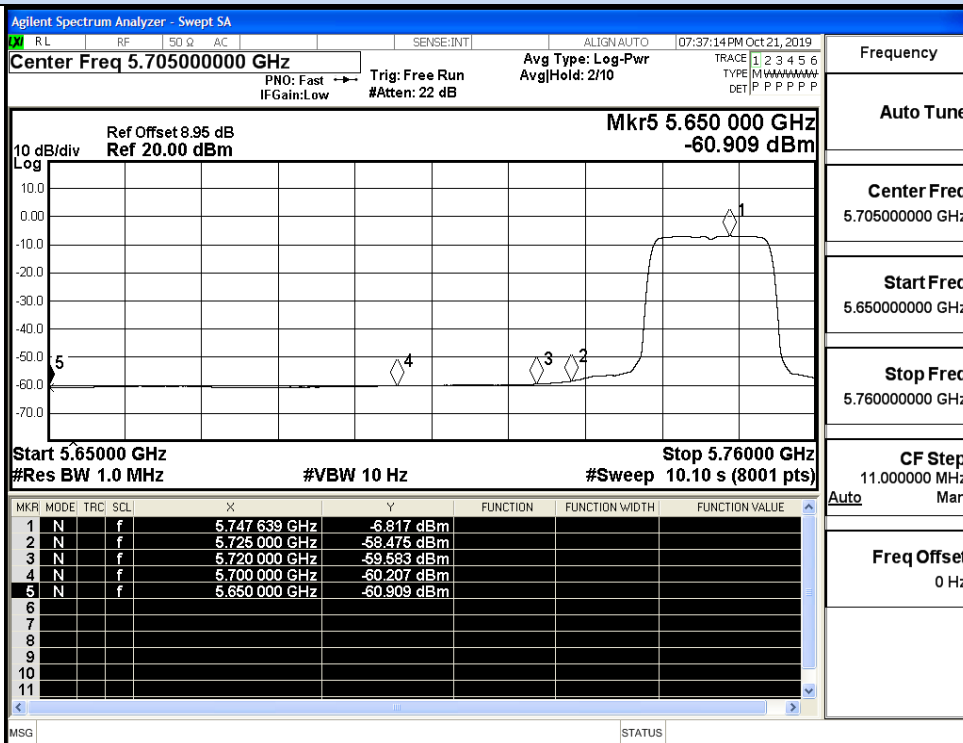
IEEE 802.11a / Channel 165 / 5825MHz / Average



Undesirable Emissions Measurement

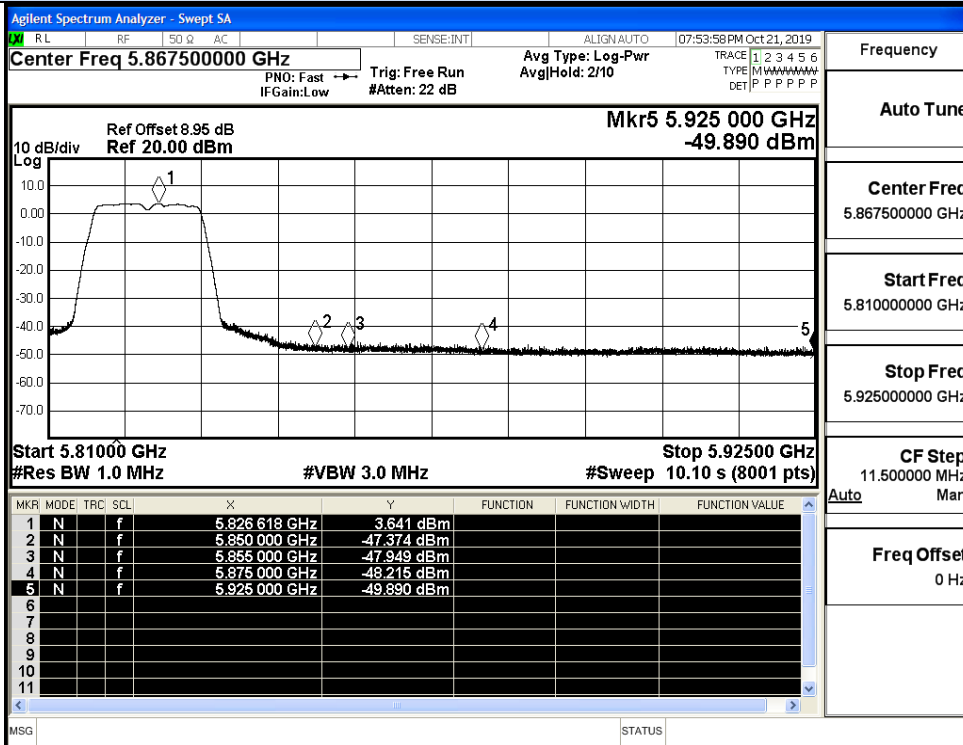


IEEE 802.11n20 / Channel 149 / 5745MHz / Peak

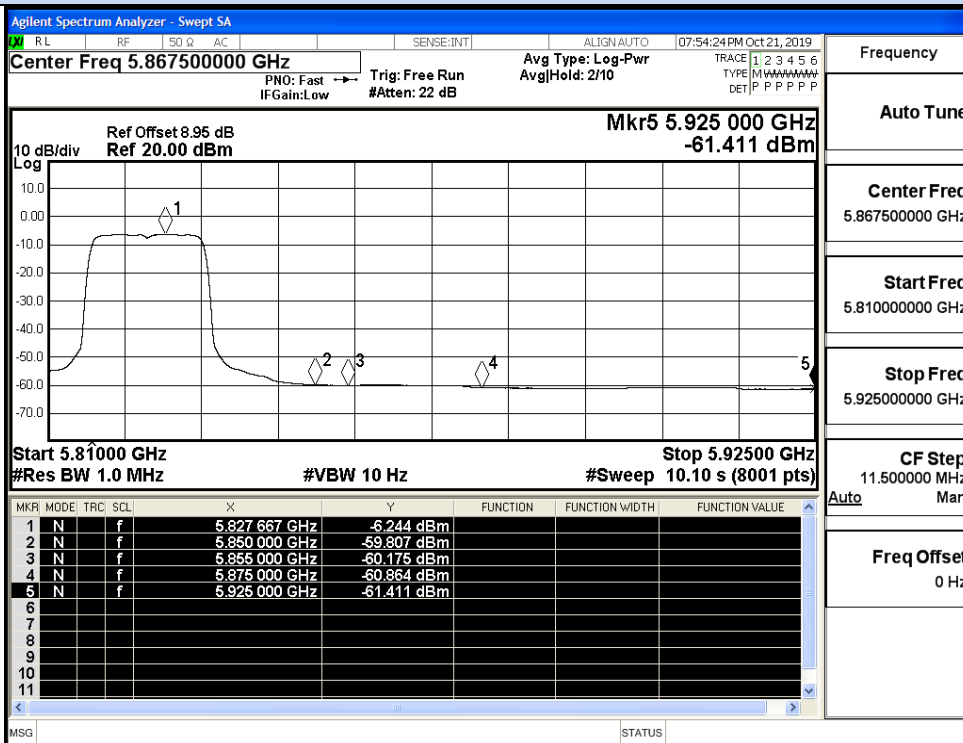


IEEE 802.11n20 / Channel 149 / 5745MHz / Average

Undesirable Emissions Measurement

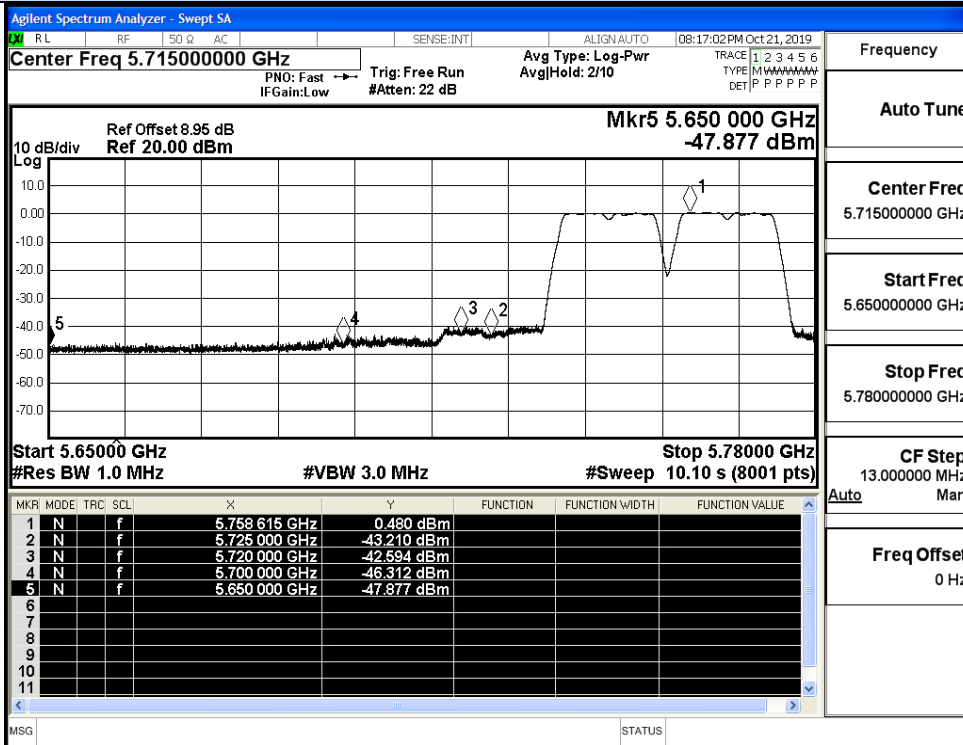


IEEE 802.11n20 / Channel 165 / 5825MHz / Peak

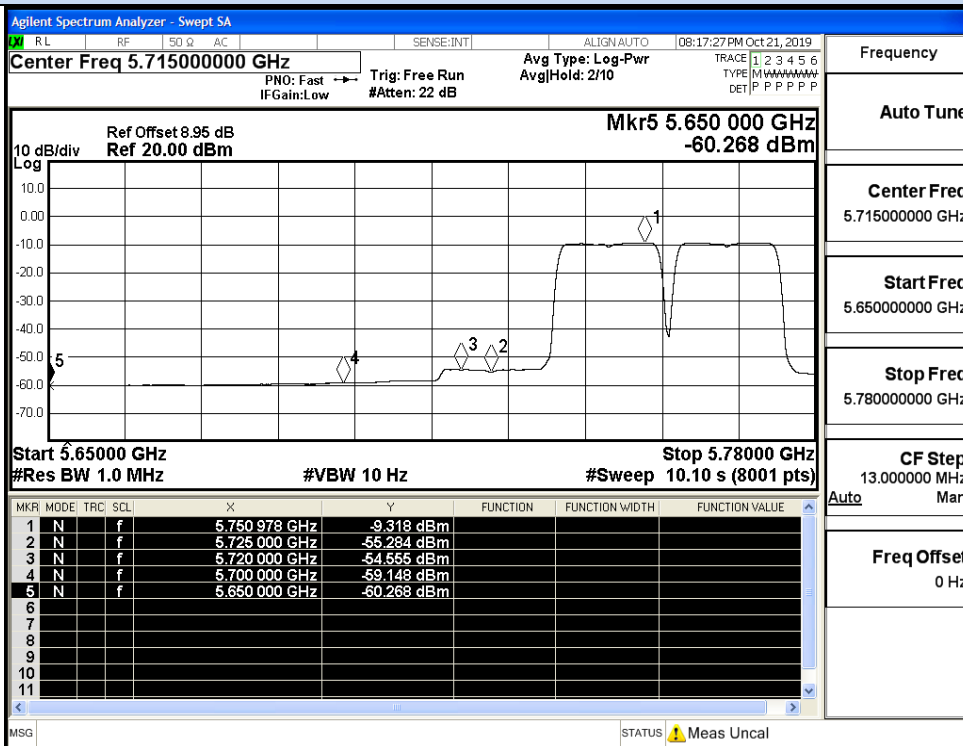


IEEE 802.11n20 / Channel 165 / 5825MHz / Average

Undesirable Emissions Measurement

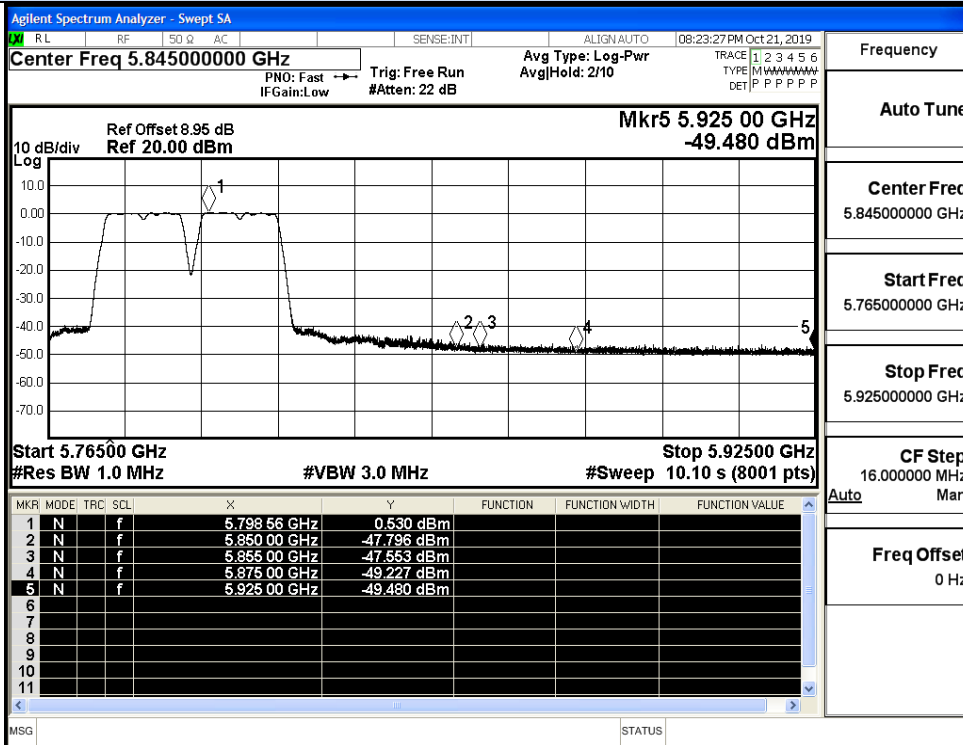


IEEE 802.11n40 / Channel 151 / 5755MHz / Peak

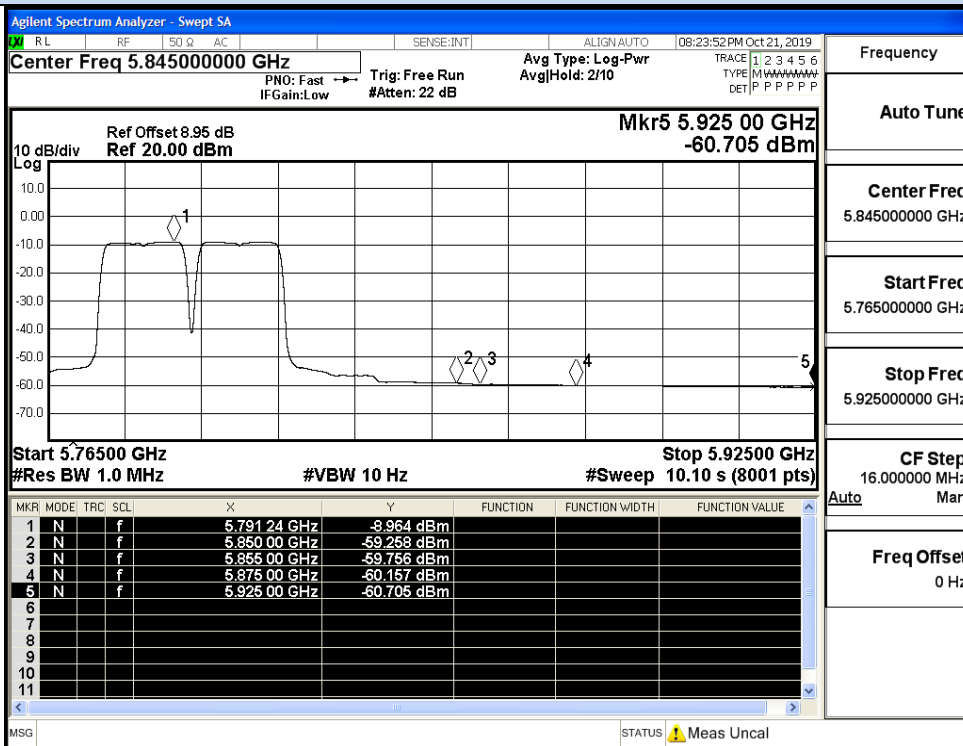


IEEE 802.11n40 / Channel 151 / 5755MHz / Average

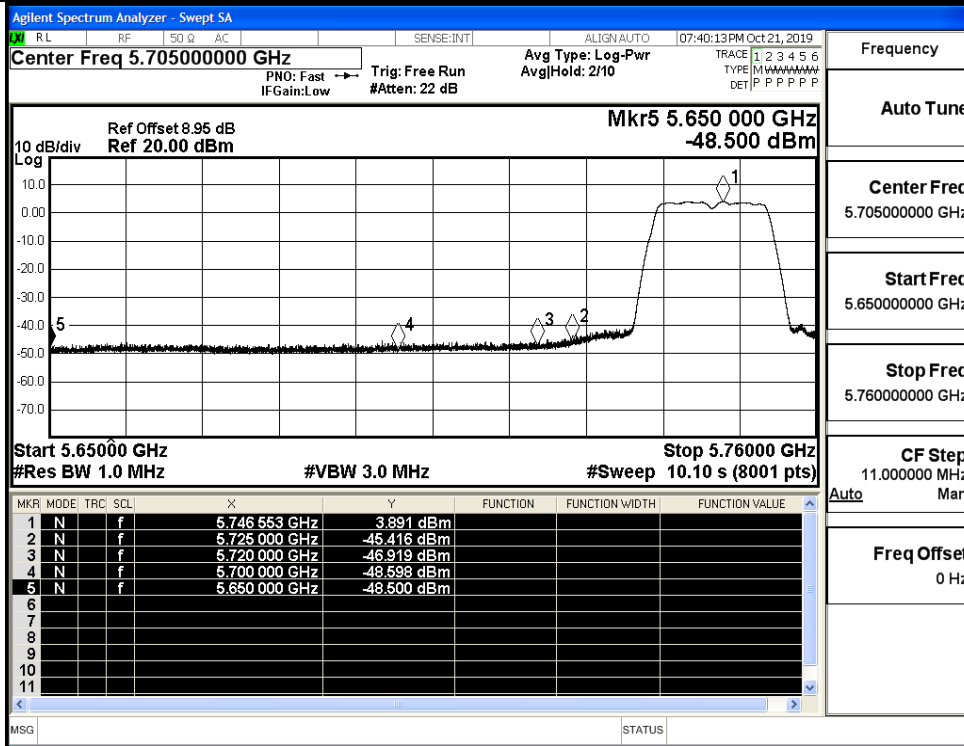
Undesirable Emissions Measurement



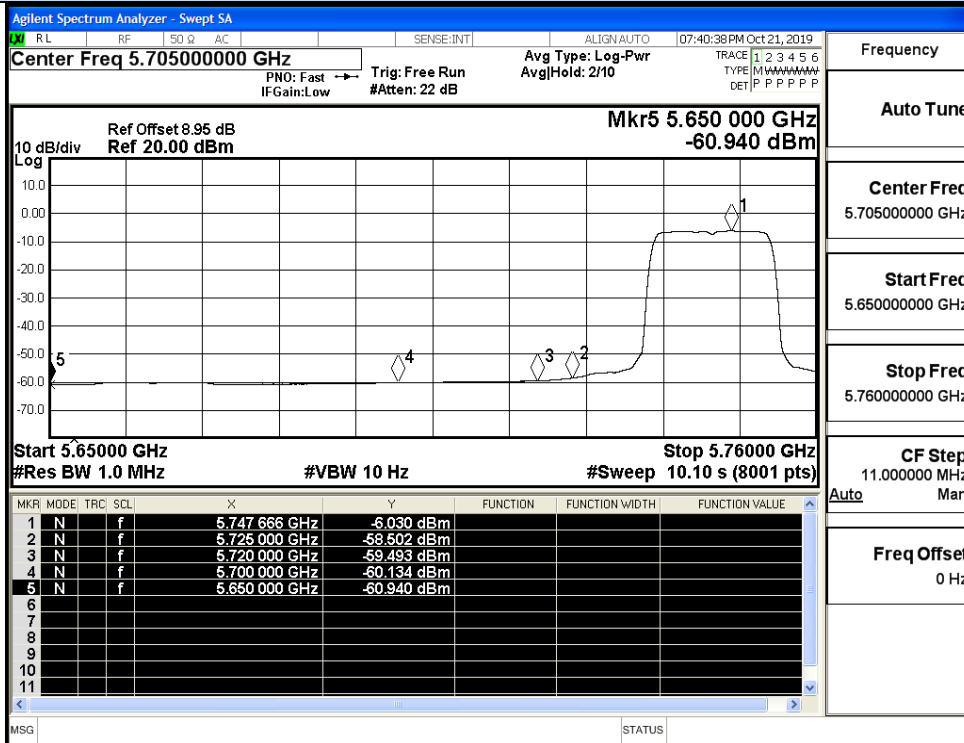
IEEE 802.11n40 / Channel 159 / 5795MHz / Peak



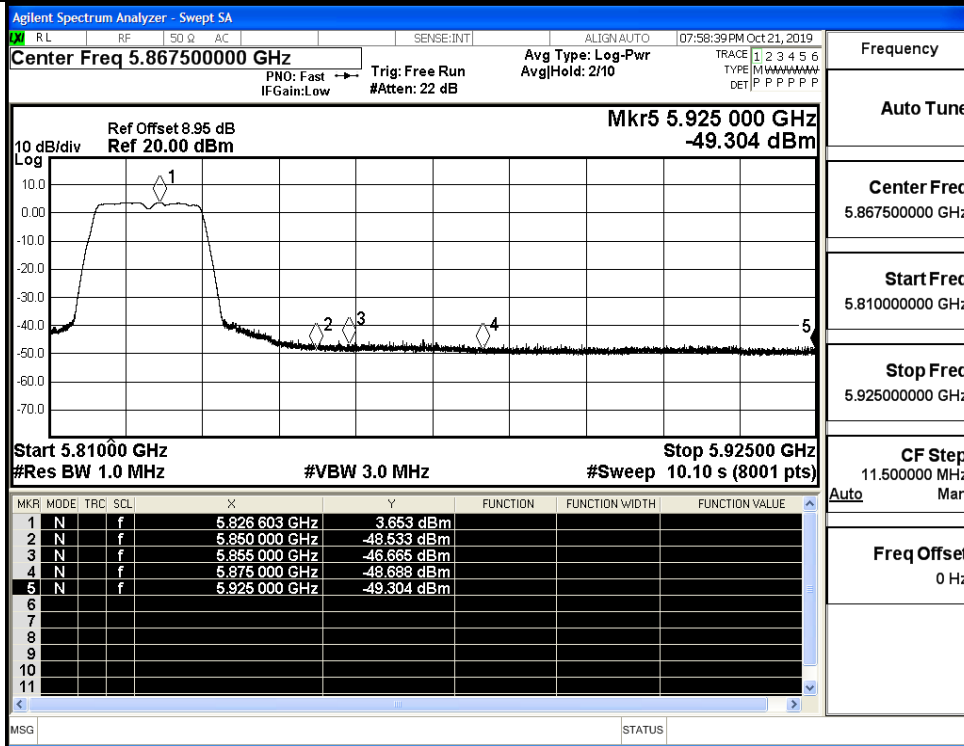
IEEE 802.11n40 / Channel 159 / 5795MHz / Average



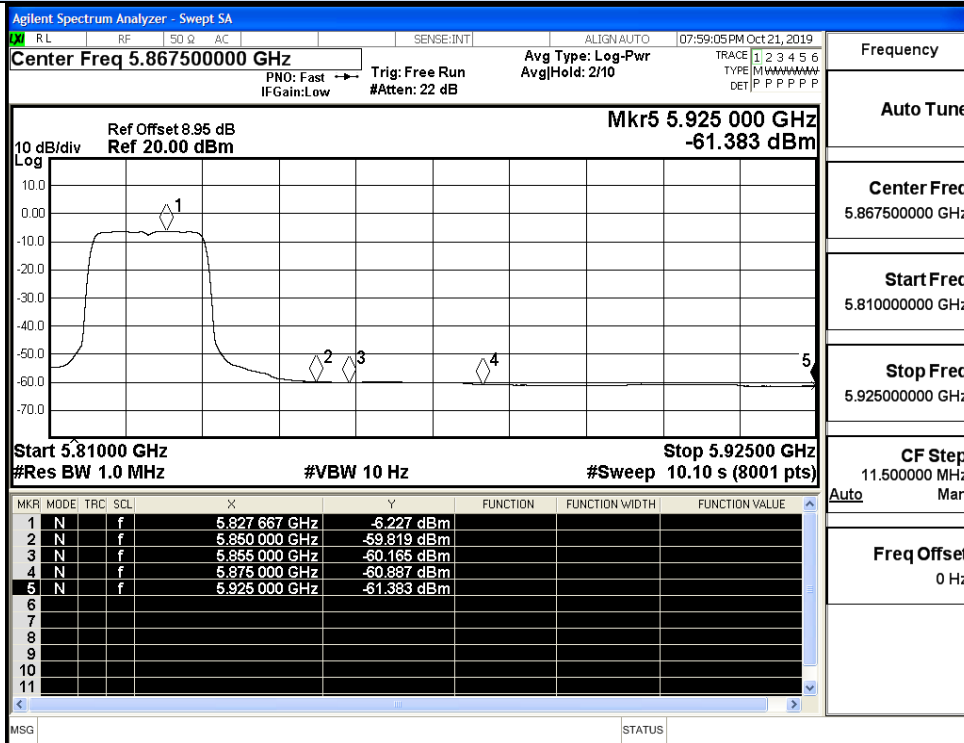
IEEE 802.11ac20 / Channel 149 / 5745MHz / Peak



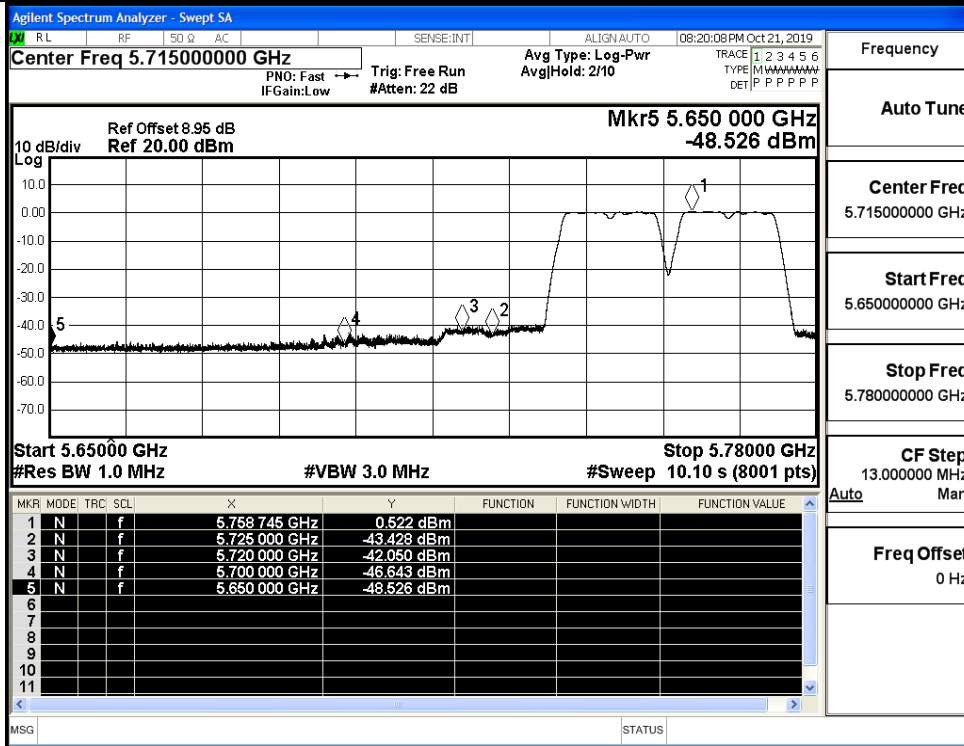
IEEE 802.11ac20 / Channel 149 / 5745MHz / Average



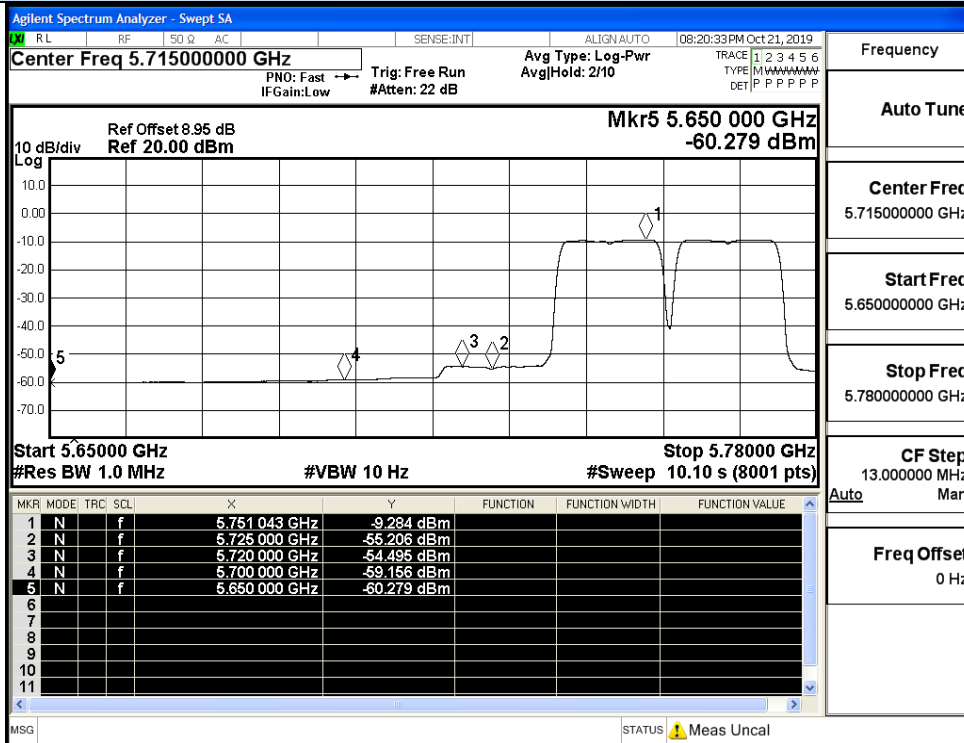
IEEE 802.11ac20 / Channel 165 / 5825MHz / Peak



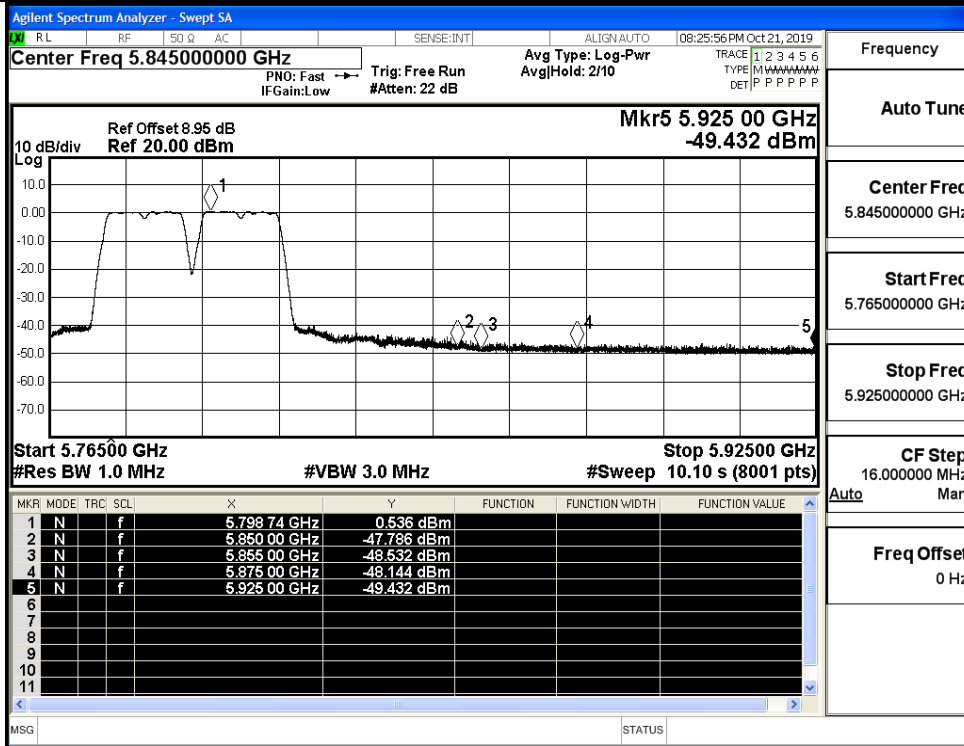
IEEE 802.11ac20 / Channel 165 / 5825MHz / Average



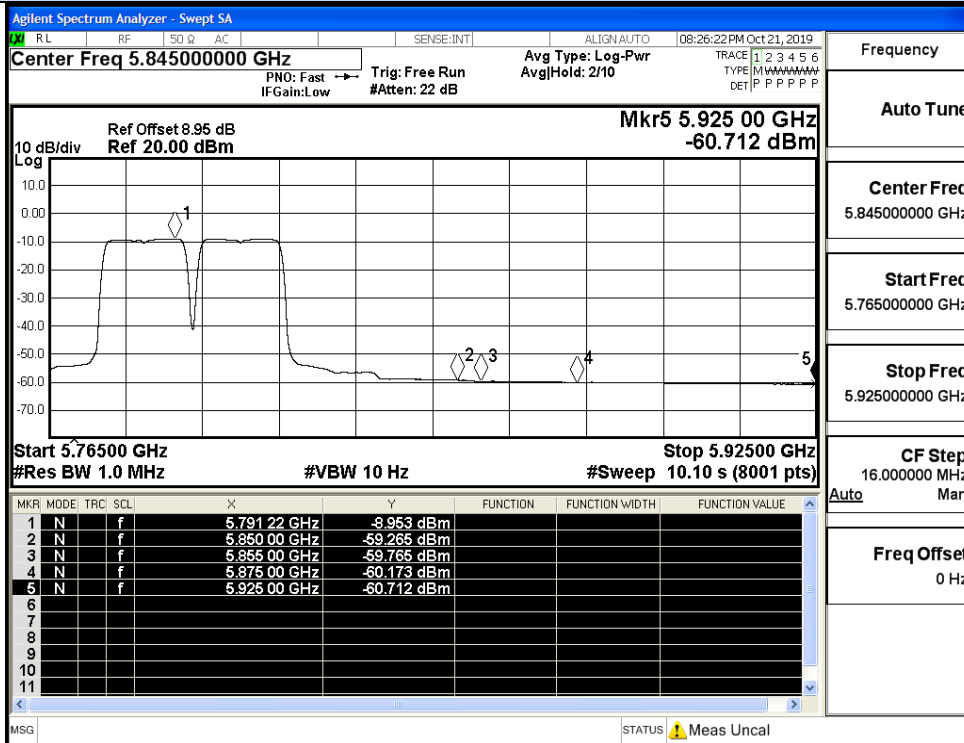
IEEE 802.11ac40 / Channel 151 / 5755MHz / Peak



IEEE 802.11ac40 / Channel 151 / 5755MHz / Average

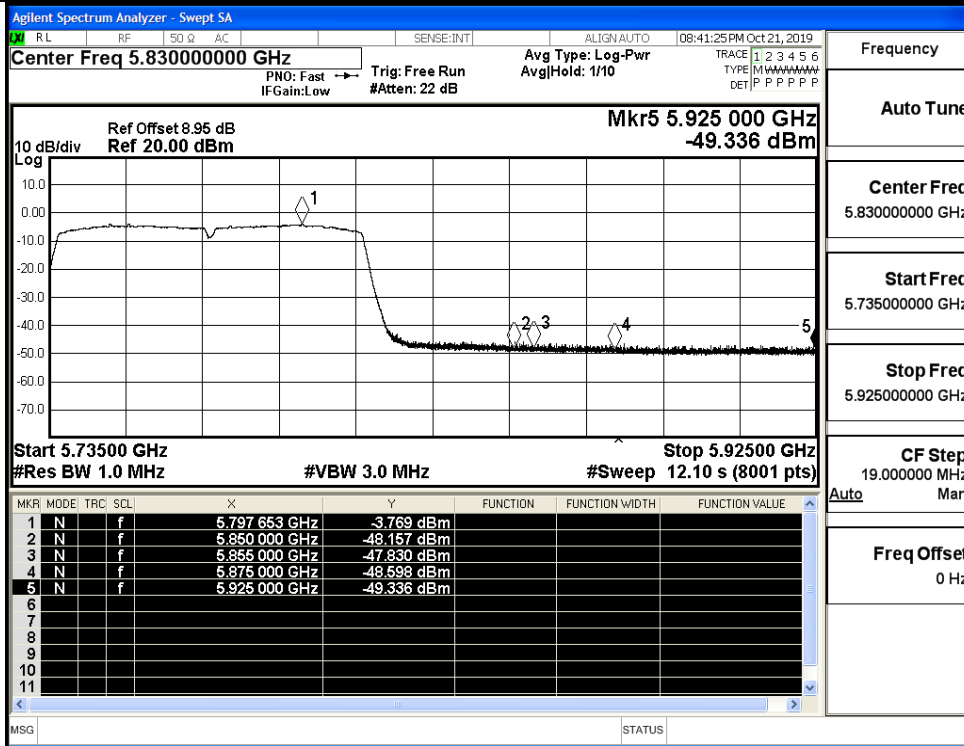


IEEE 802.11ac40 / Channel 159 / 5795MHz / Peak

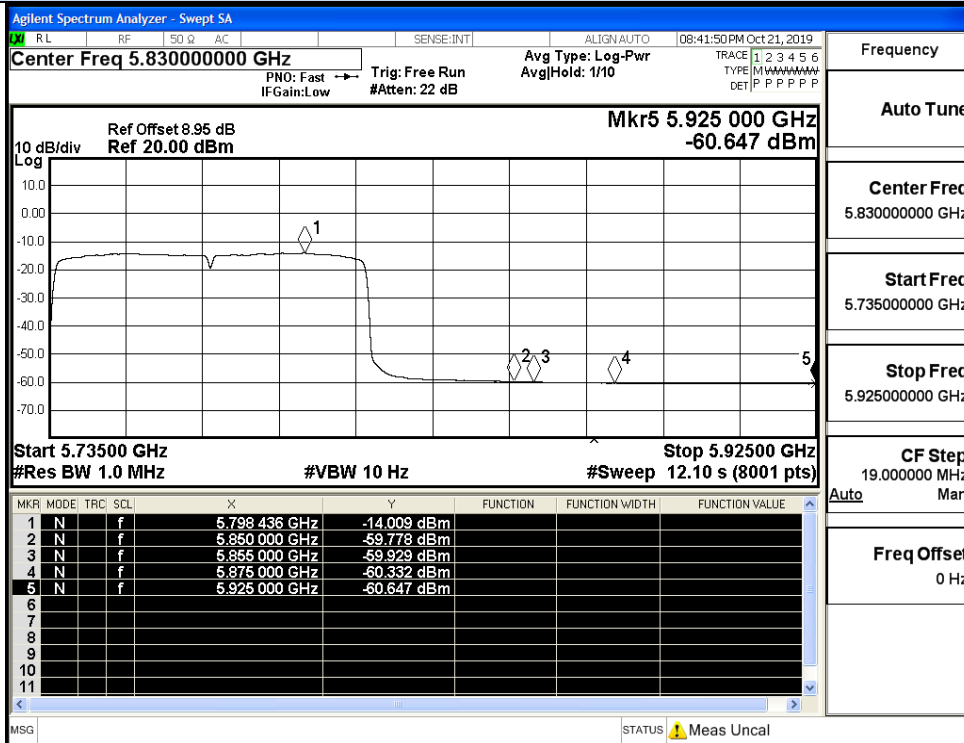


IEEE 802.11ac40 / Channel 159 / 5795MHz / Average

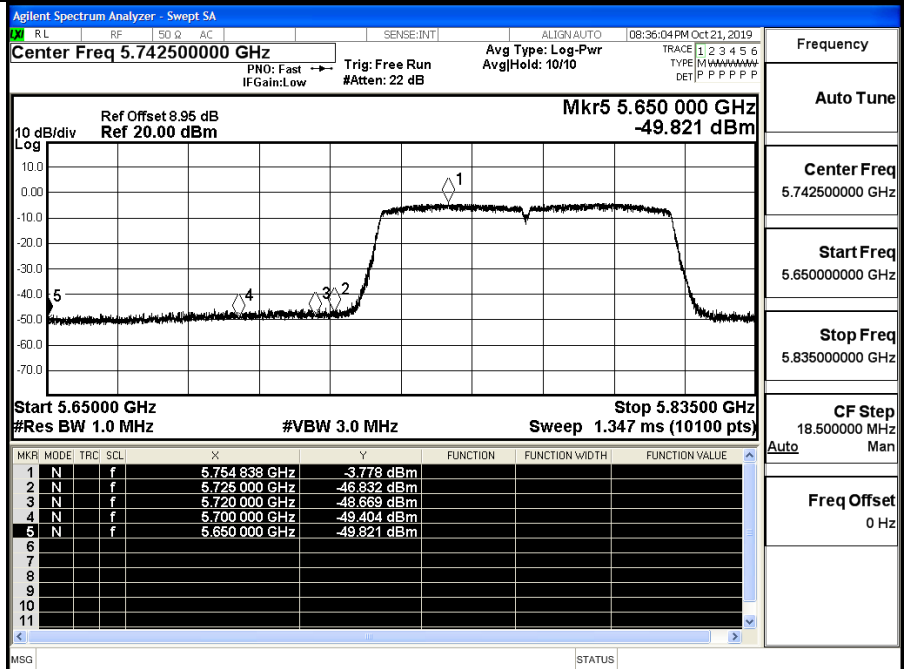




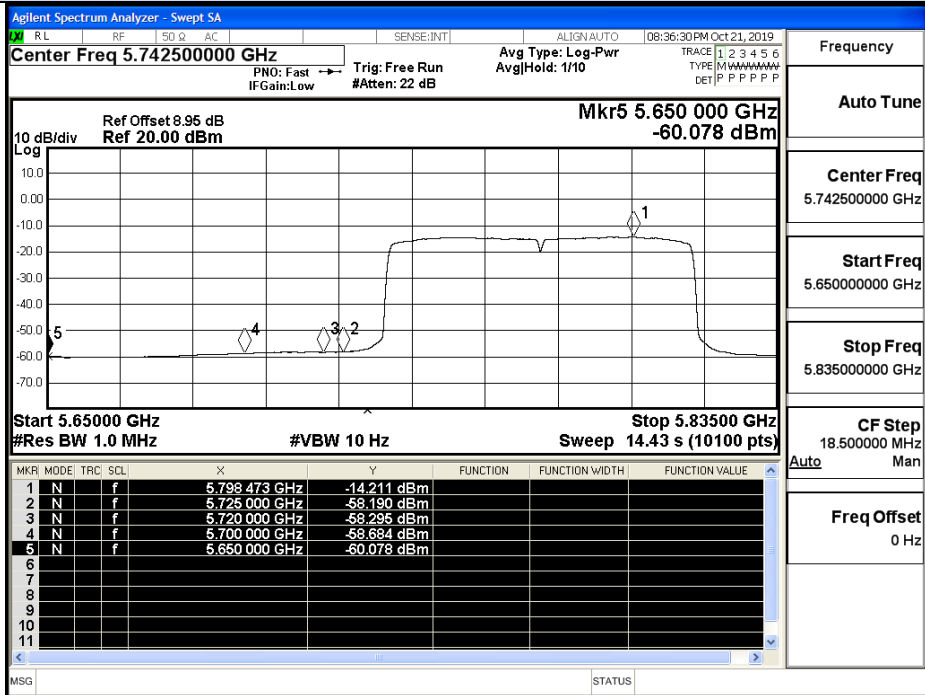
IEEE 802.11ac80 / Channel 155 / 5775MHz / Peak



IEEE 802.11ac80 / Channel 155 / 5775MHz / Average

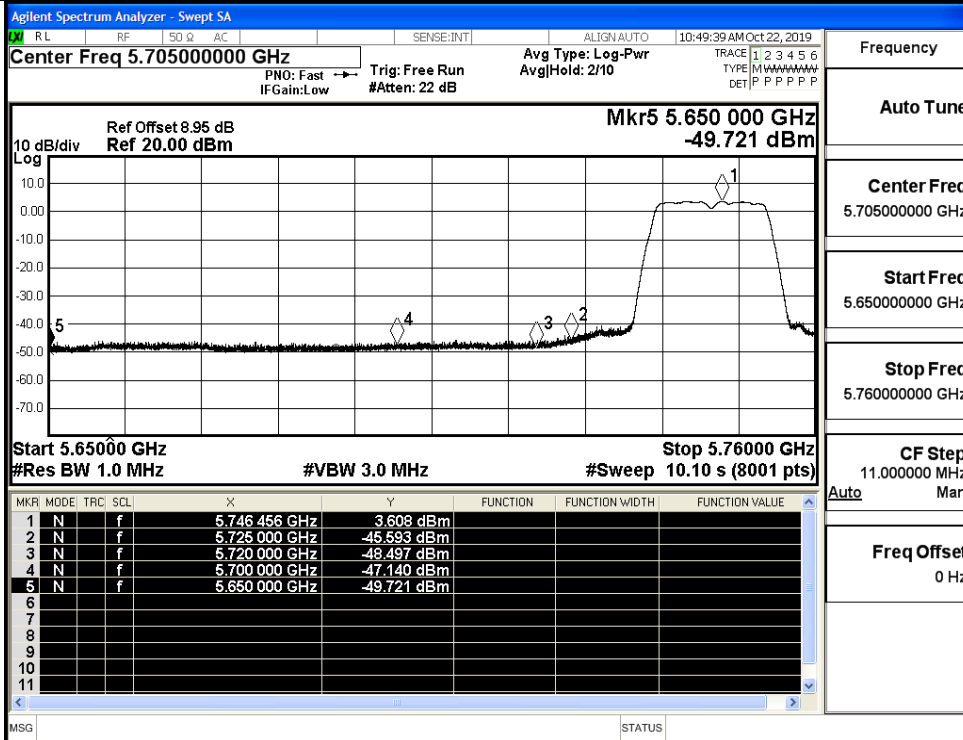


IEEE 802.11ac80 / Channel 155/ 5775MHz / Peak

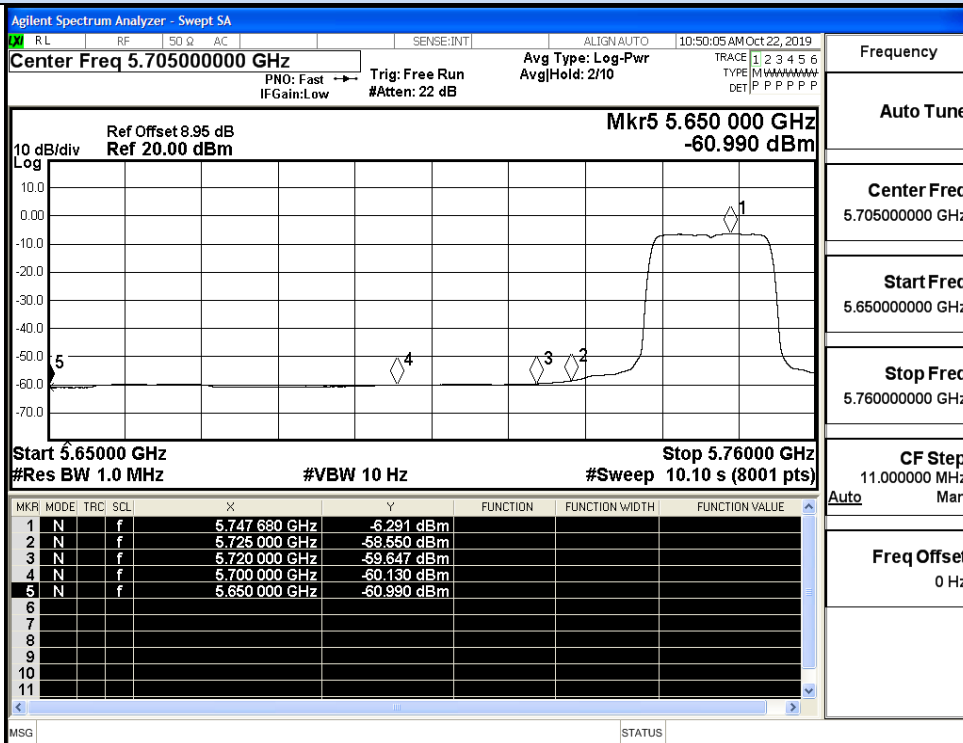


IEEE 802.11ac80 / Channel 155 / 5775MHz / Average

Undesirable Emissions Measurement\_ANT\_4

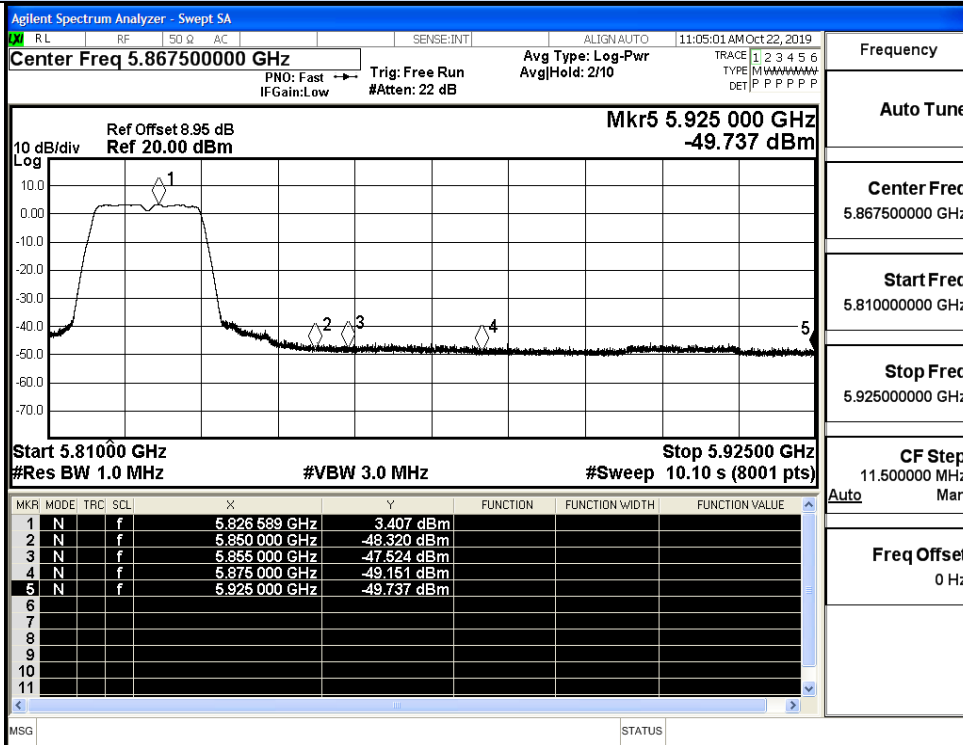


IEEE 802.11a / Channel 149 / 5745MHz / Peak

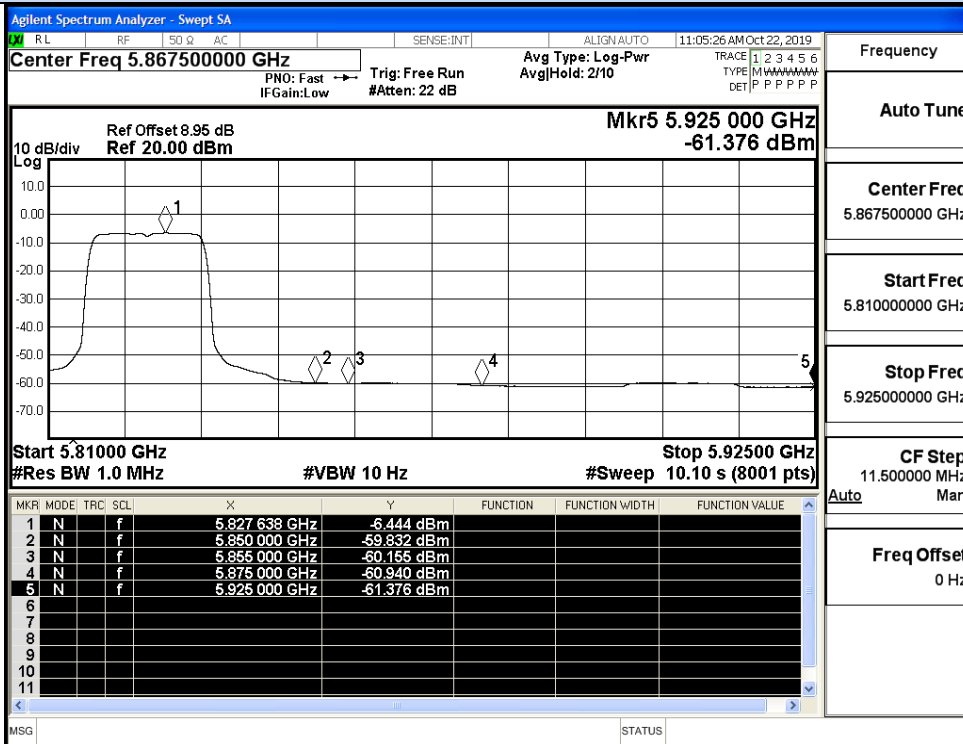


IEEE 802.11a / Channel 148 / 5745MHz / Average

Undesirable Emissions Measurement

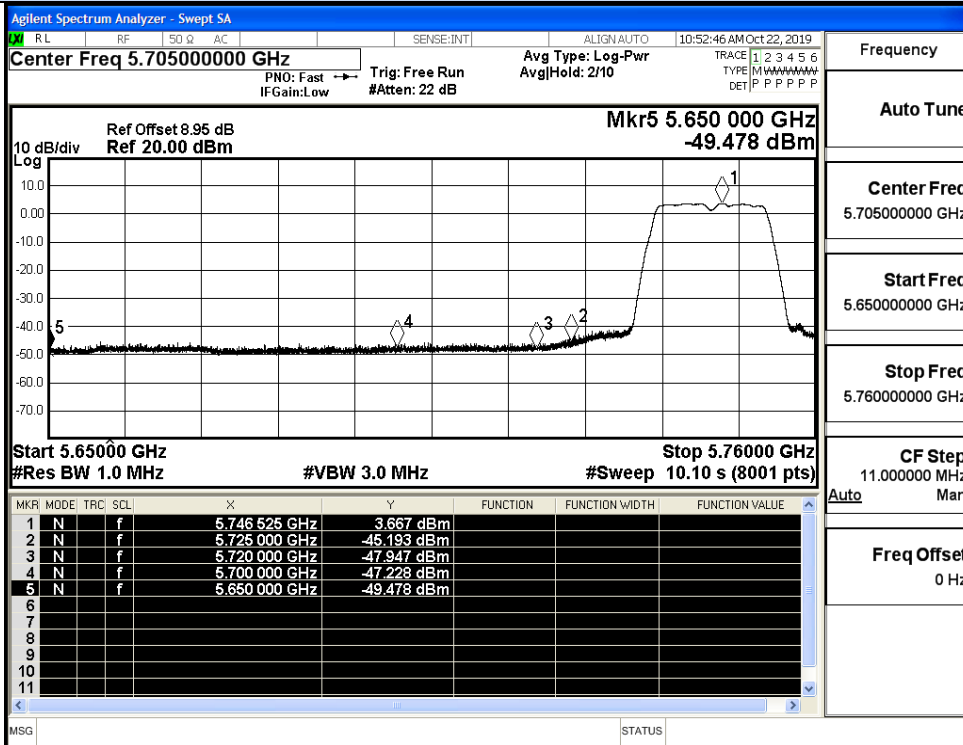


IEEE 802.11a / Channel 165 / 5825MHz / Peak

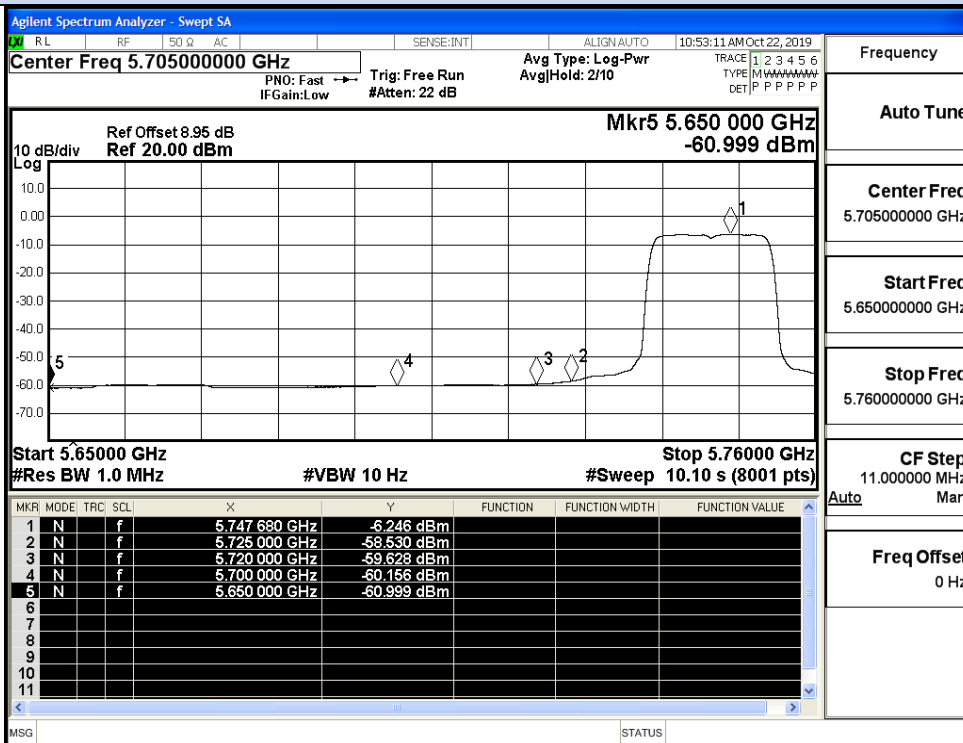


IEEE 802.11a / Channel 165 / 5825MHz / Average

Undesirable Emissions Measurement

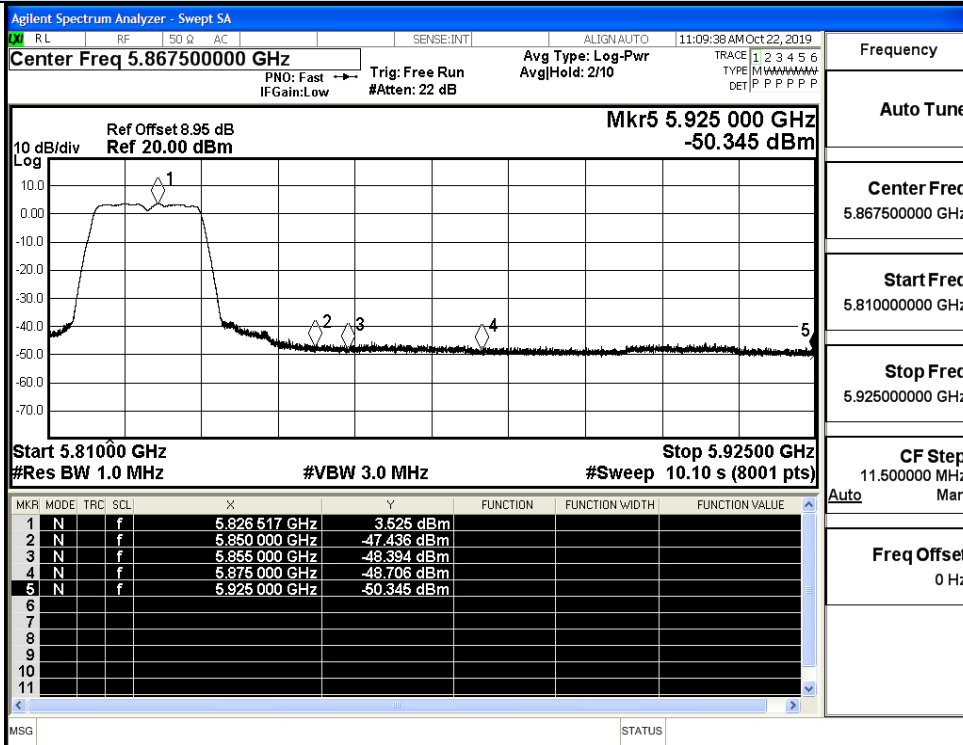


IEEE 802.11n20 / Channel 149 / 5745MHz / Peak

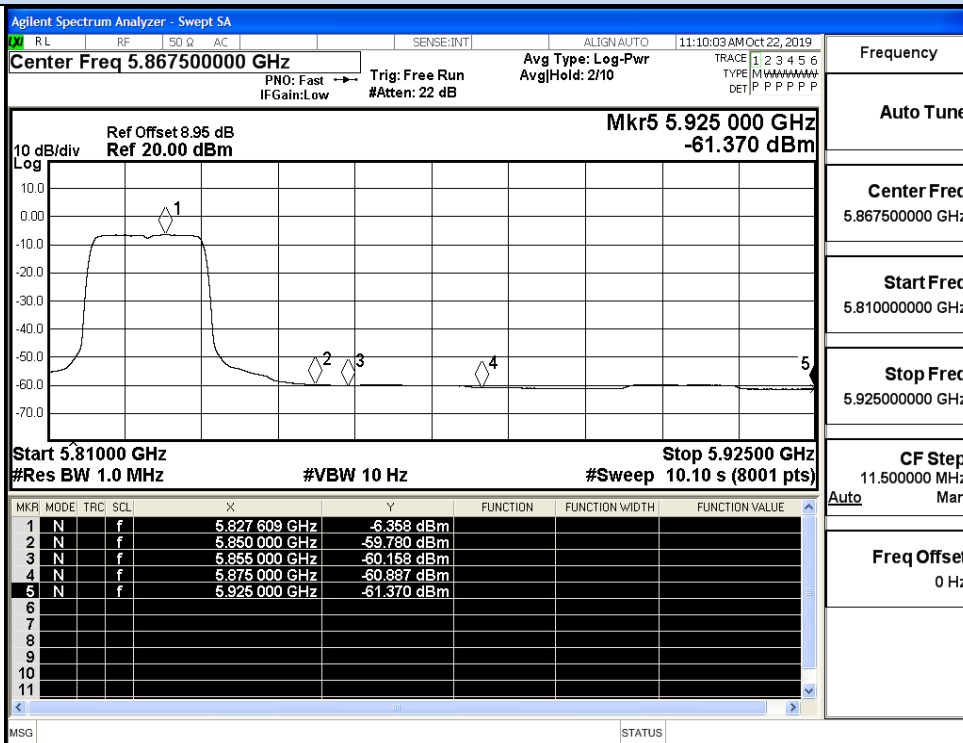


IEEE 802.11n20 / Channel 149 / 5745MHz / Average

Undesirable Emissions Measurement

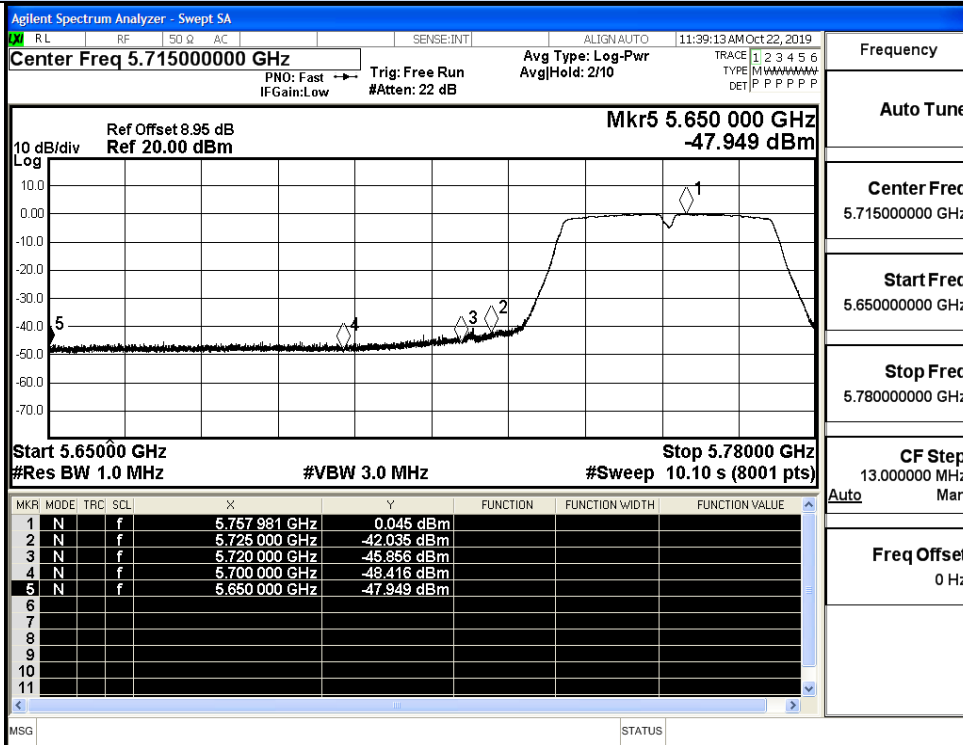


IEEE 802.11n20 / Channel 165 / 5825MHz / Peak

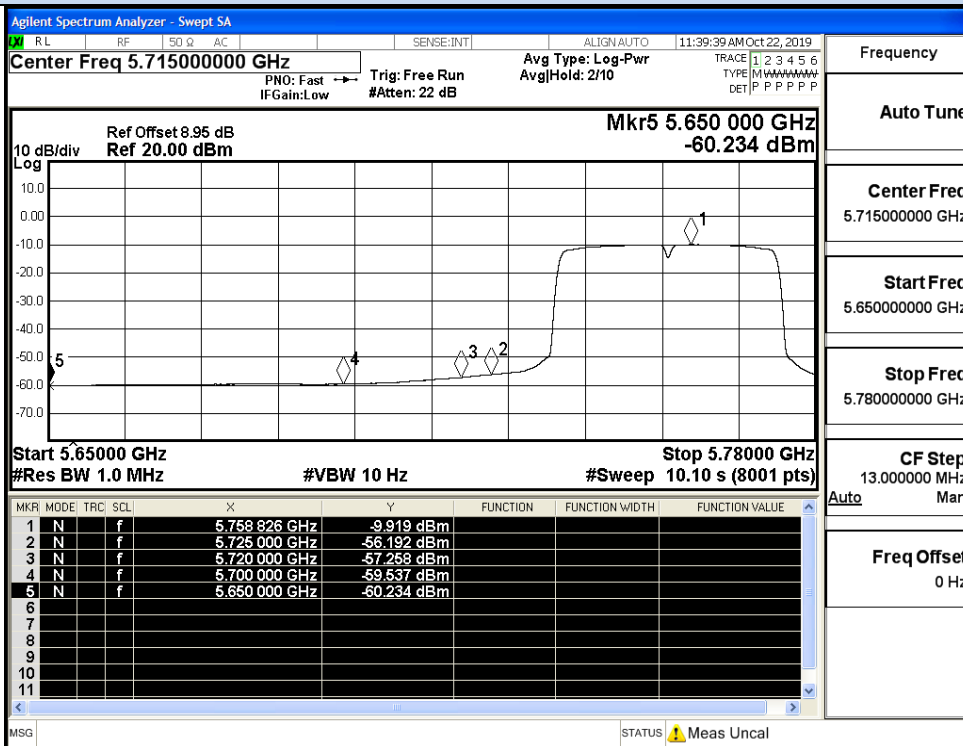


IEEE 802.11n20 / Channel 165 / 5825MHz / Average

Undesirable Emissions Measurement

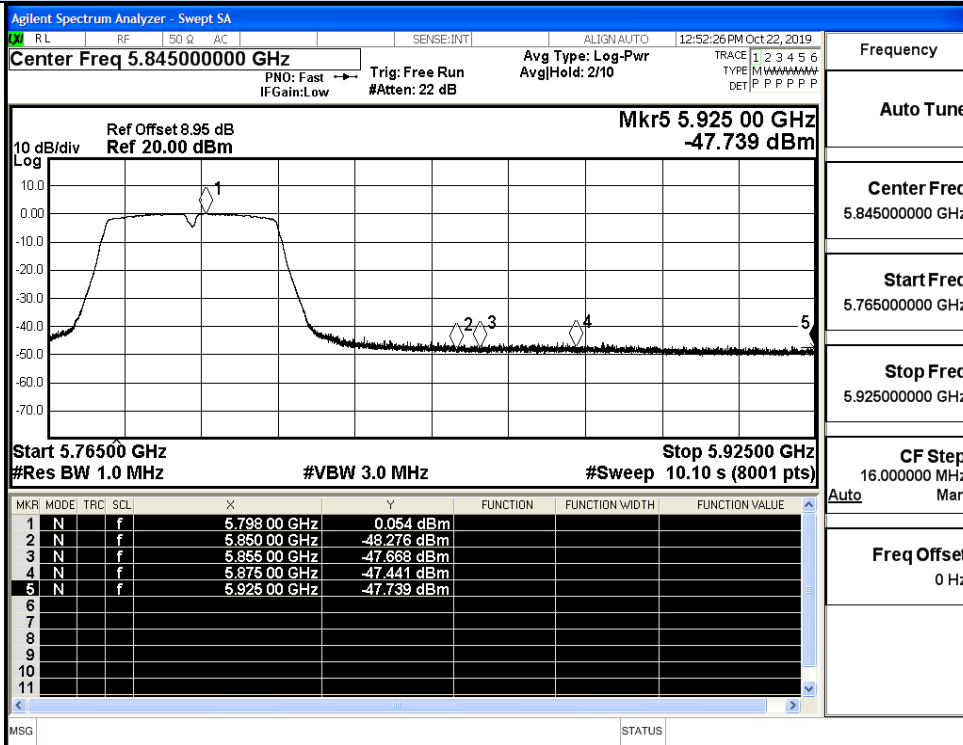


IEEE 802.11n40 / Channel 151 / 5755MHz / Peak

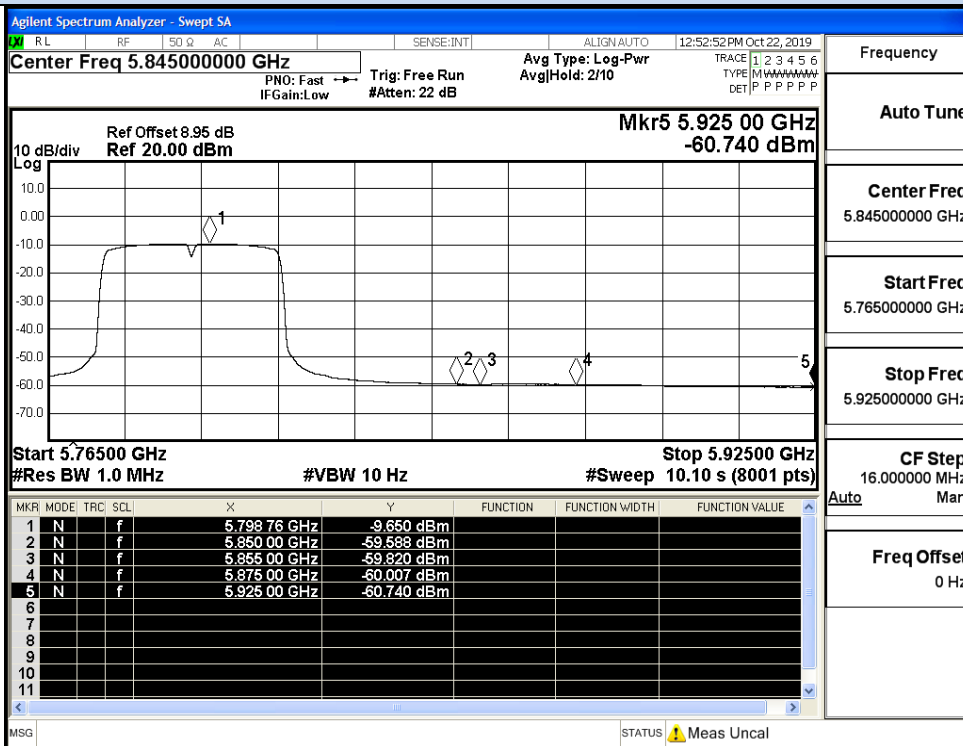


IEEE 802.11n40 / Channel 151 / 5755MHz / Average

Undesirable Emissions Measurement

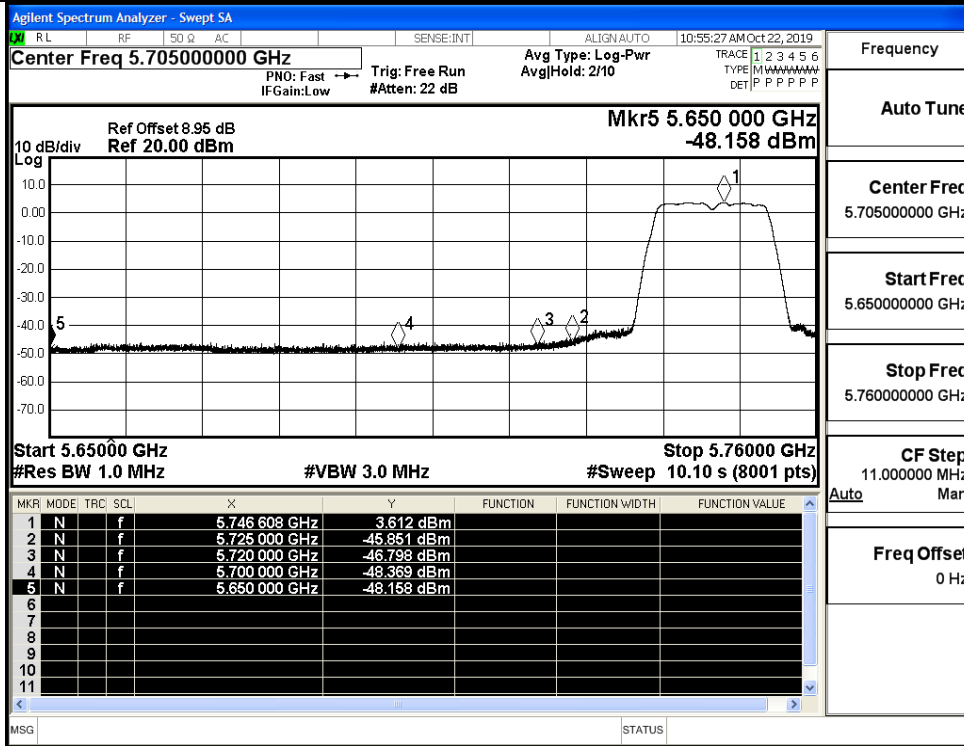


IEEE 802.11n40 / Channel 159 / 5795MHz / Peak

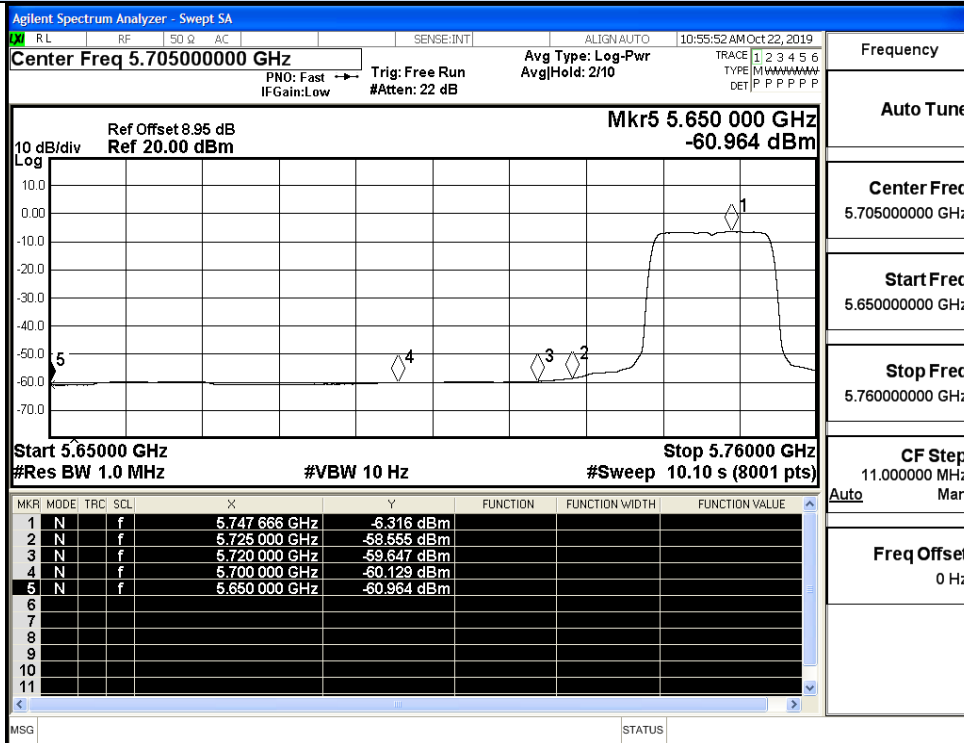


IEEE 802.11n40 / Channel 159 / 5795MHz / Average

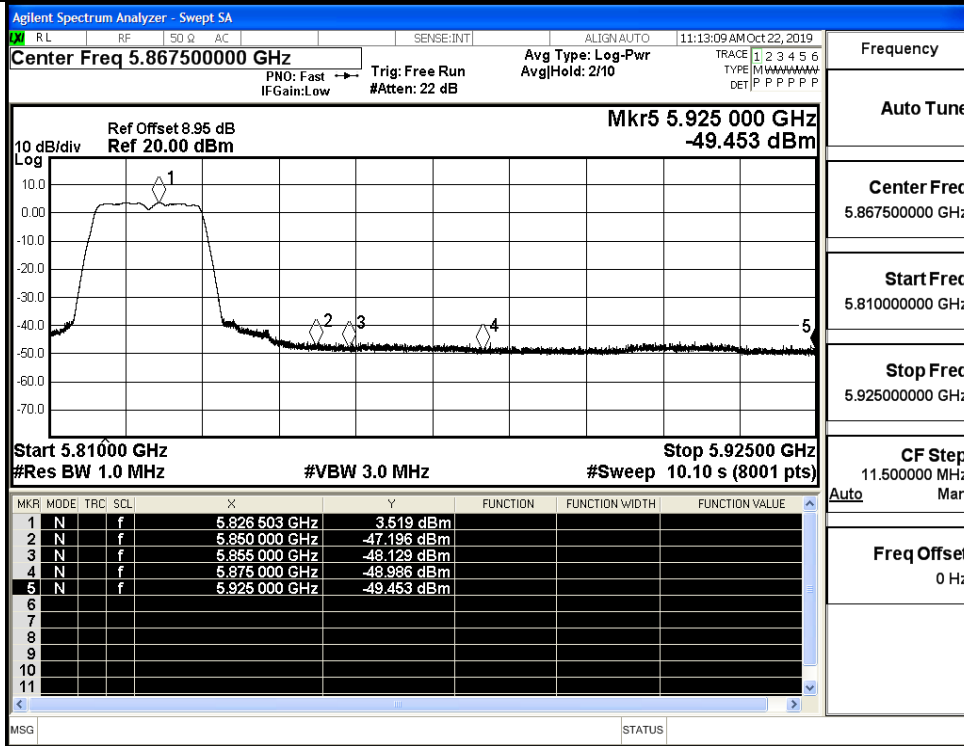




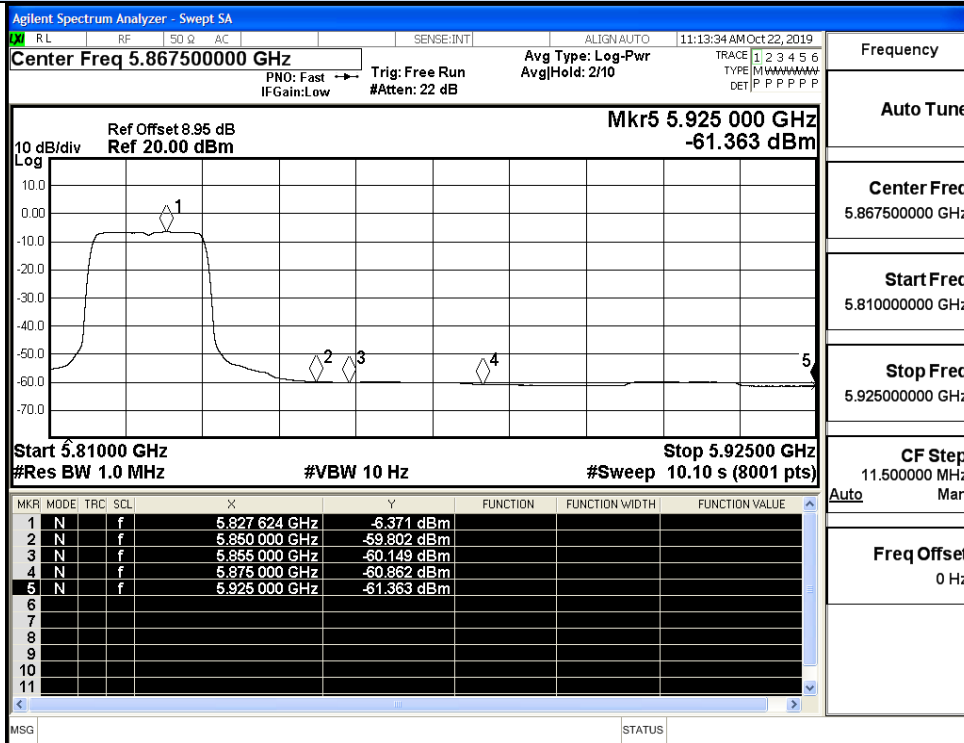
IEEE 802.11ac20 / Channel 149 / 5745MHz / Peak



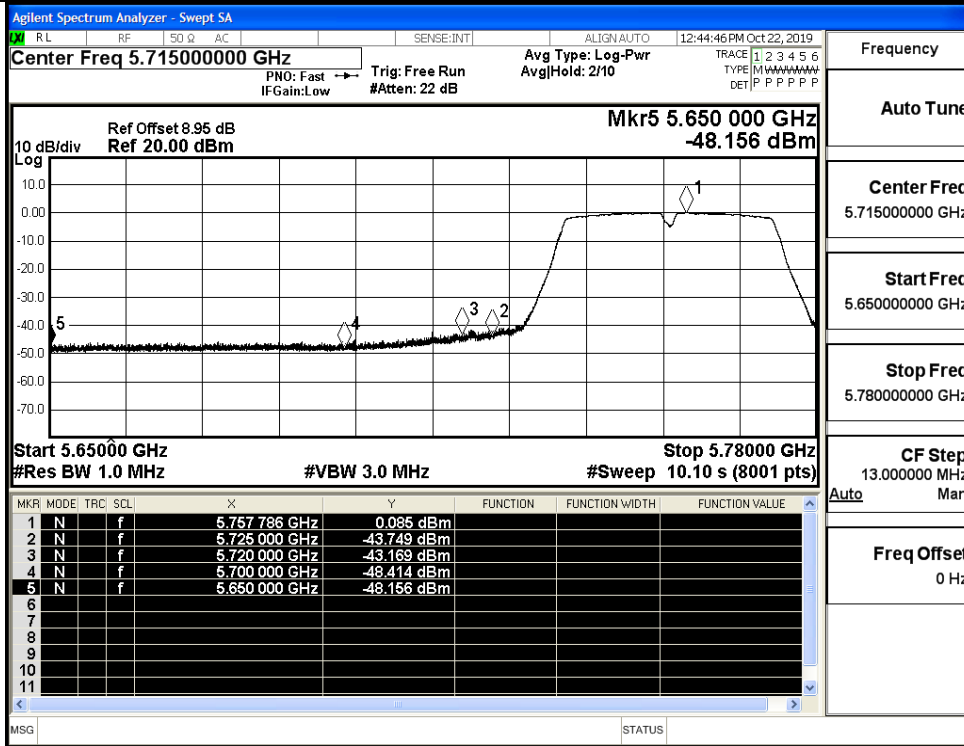
IEEE 802.11ac20 / Channel 149 / 5745MHz / Average



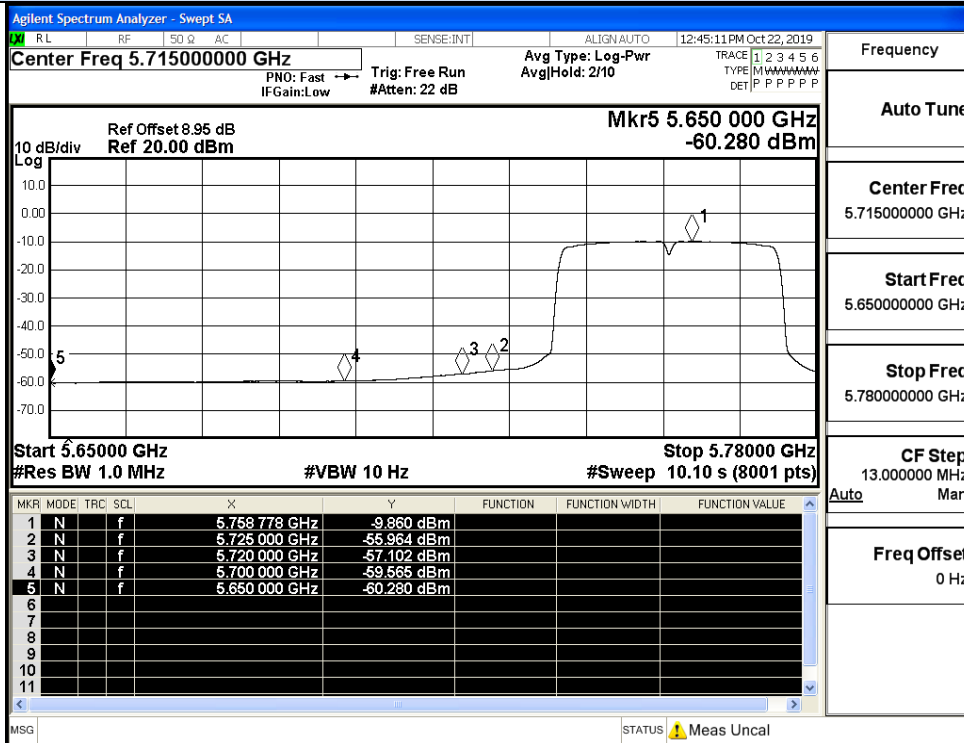
IEEE 802.11ac20 / Channel 165 / 5825MHz / Peak



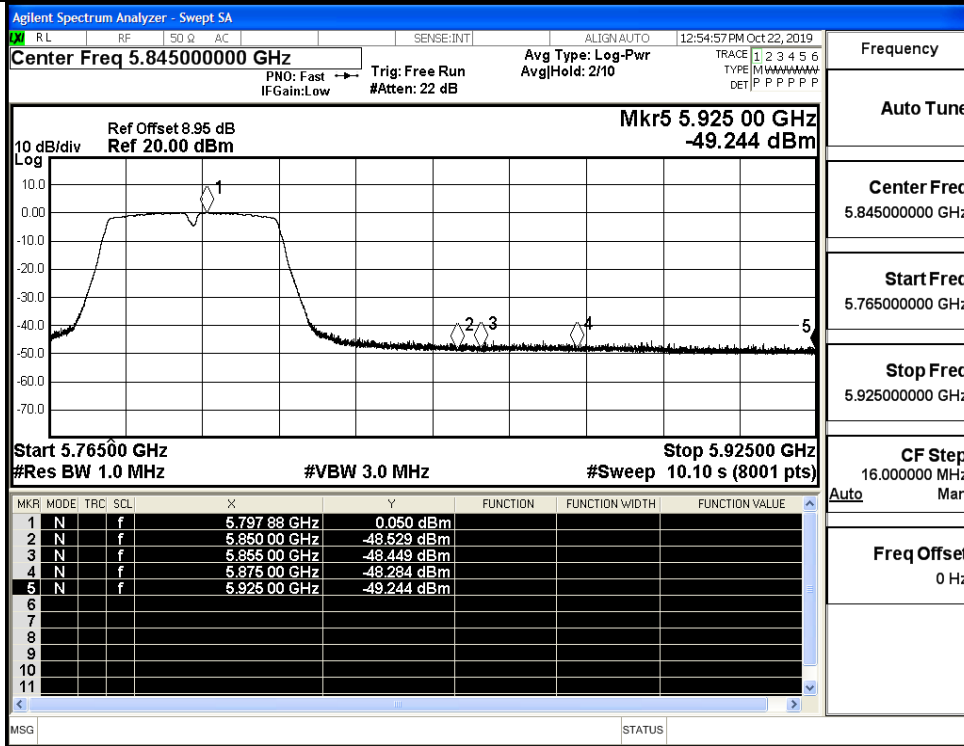
IEEE 802.11ac20 / Channel 165 / 5825MHz / Average



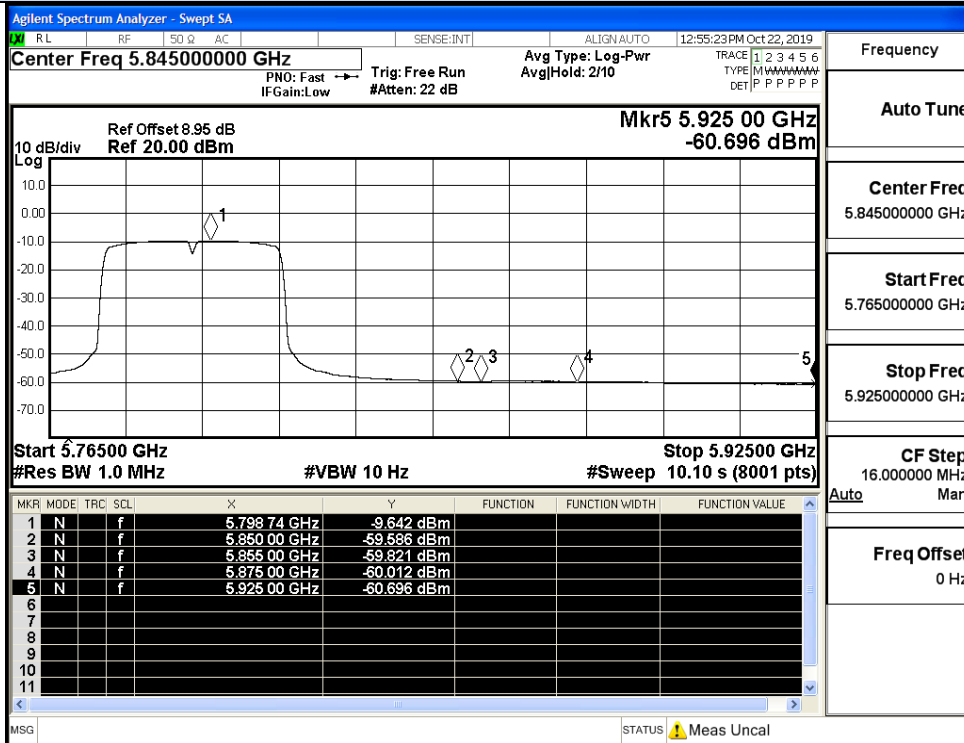
IEEE 802.11ac40 / Channel 151 / 5755MHz / Peak



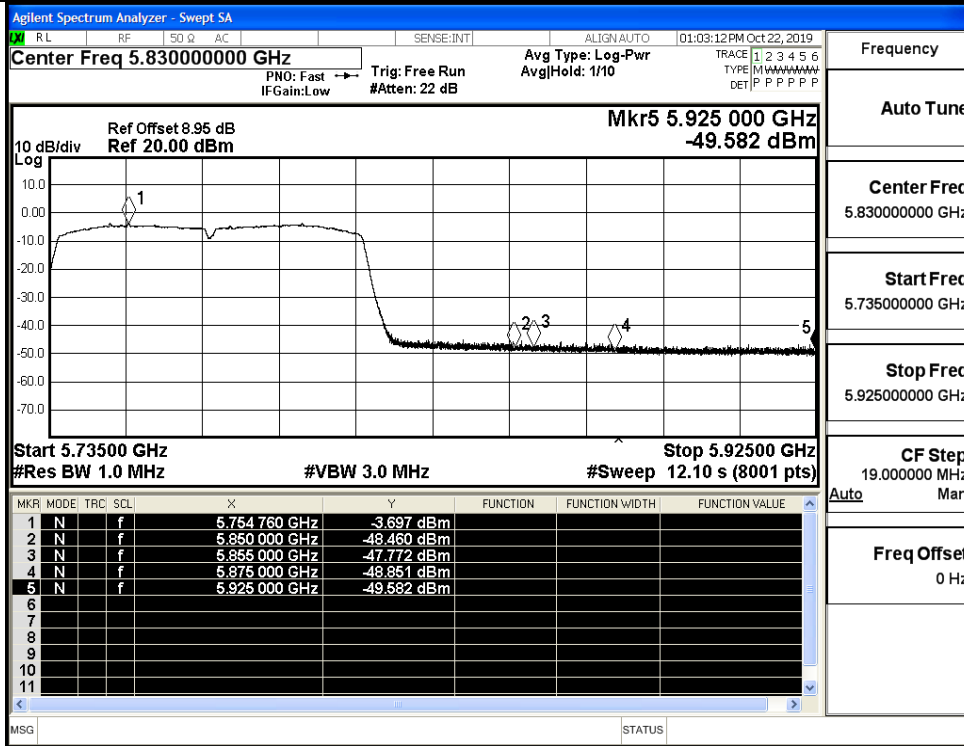
IEEE 802.11ac40 / Channel 151 / 5755MHz / Average



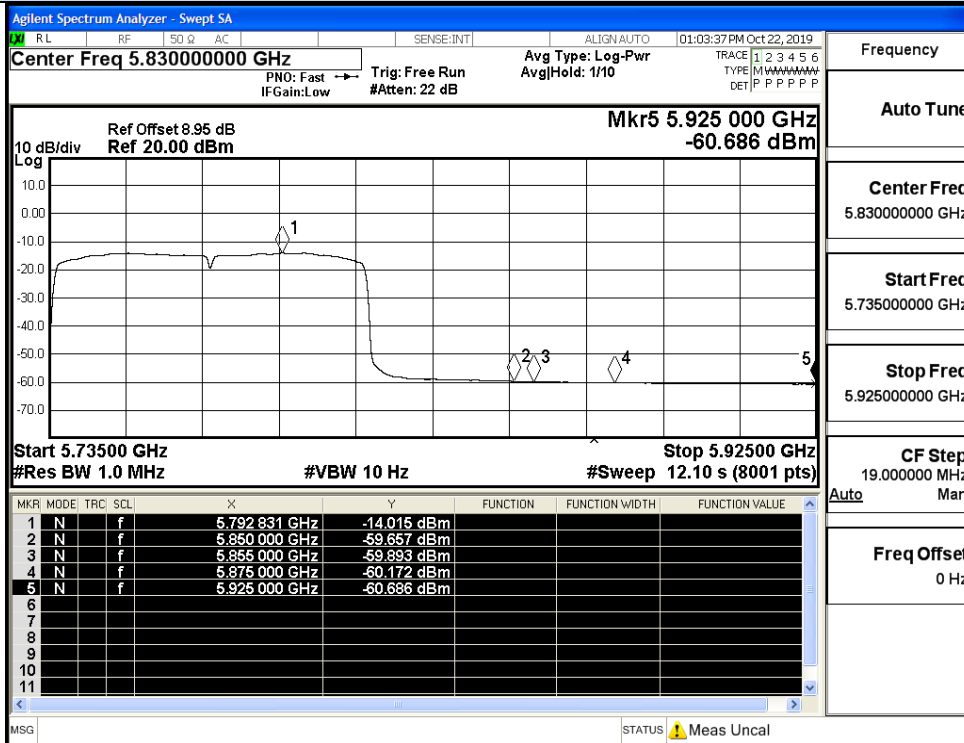
IEEE 802.11ac40 / Channel 159 / 5795MHz / Peak



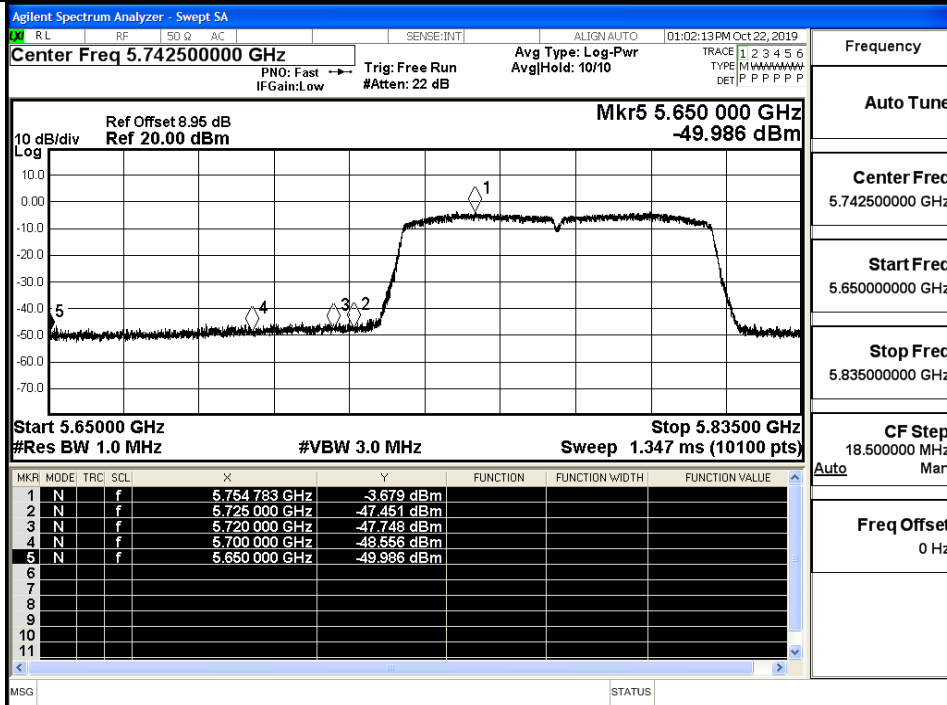
IEEE 802.11ac40 / Channel 159 / 5795MHz / Average



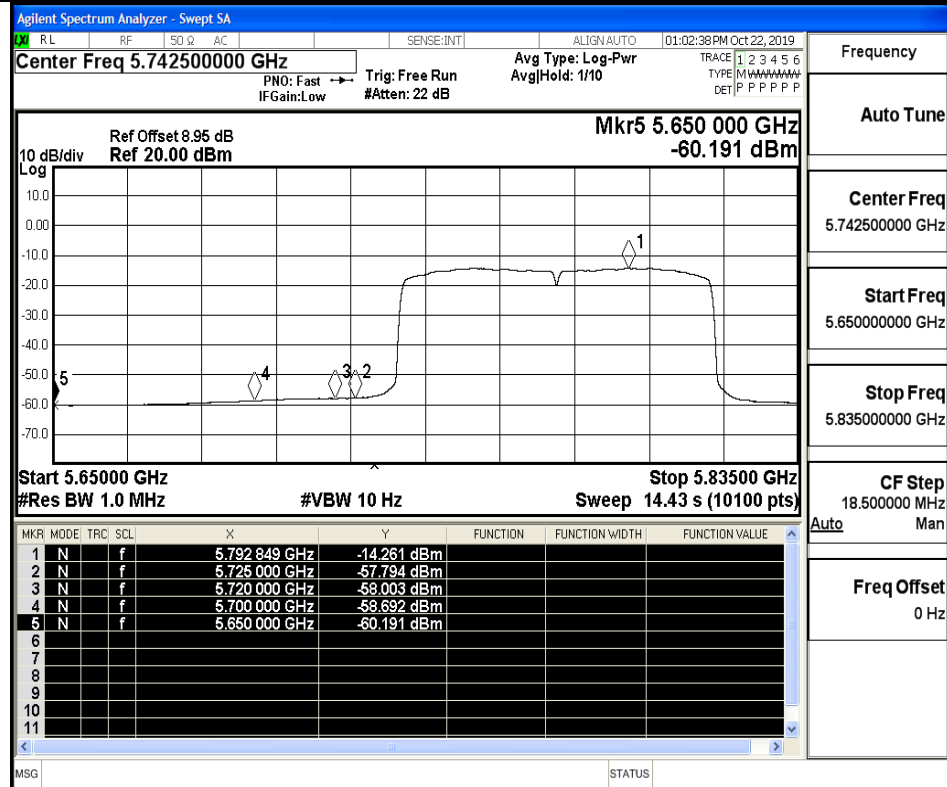
IEEE 802.11ac80 / Channel 155 / 5775MHz / Peak



IEEE 802.11ac80 / Channel 155 / 5775MHz / Average



IEEE 802.11ac80 / Channel 155 / 5775MHz / Peak



IEEE 802.11ac80 / Channel 155 / 5775MHz / Average