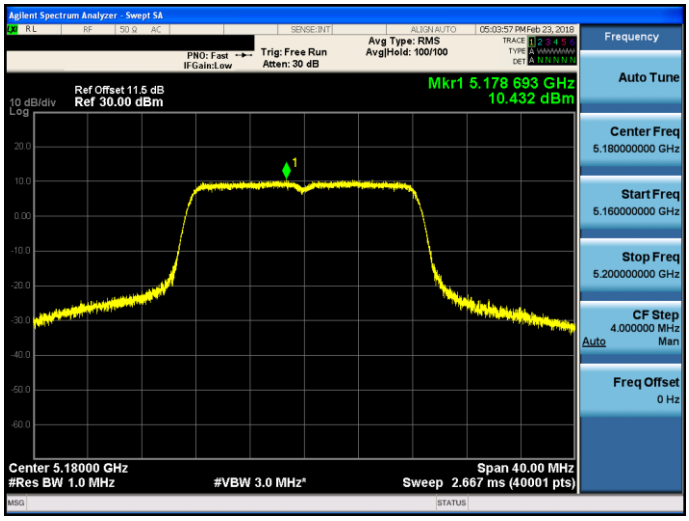
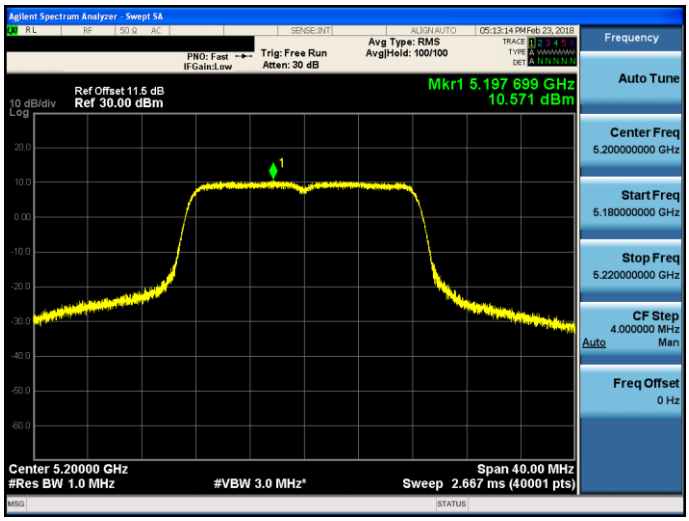
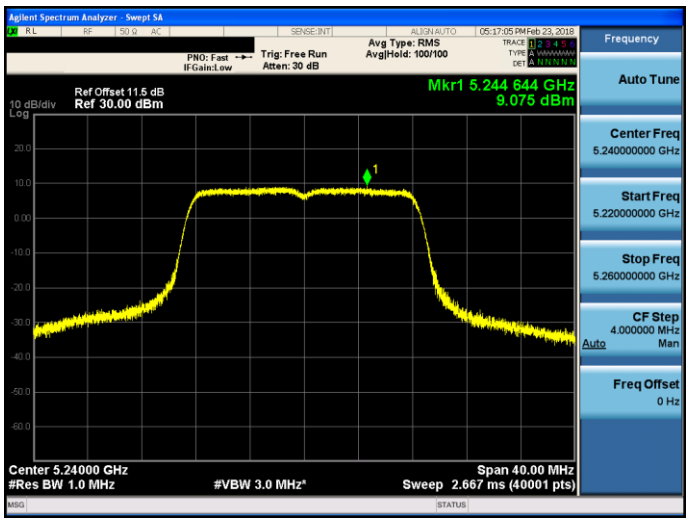
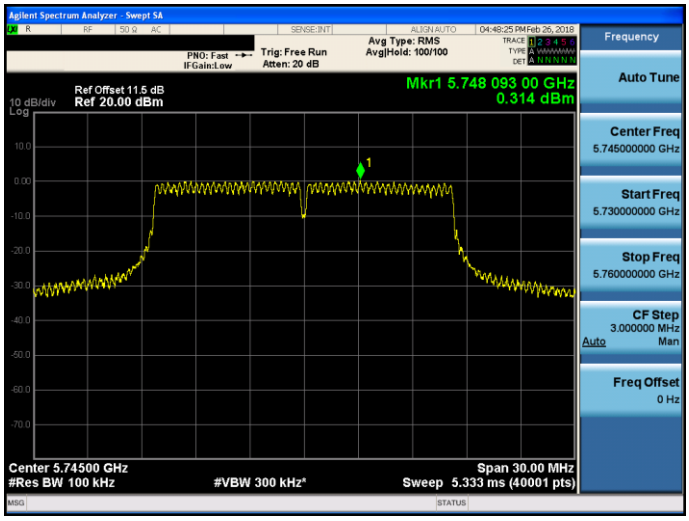
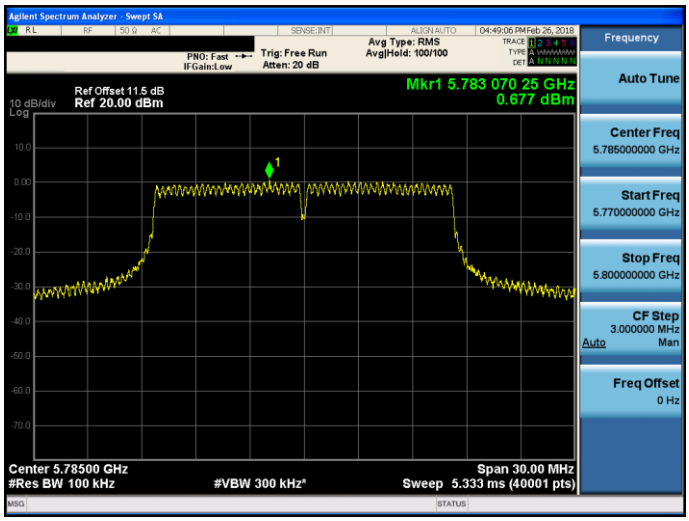
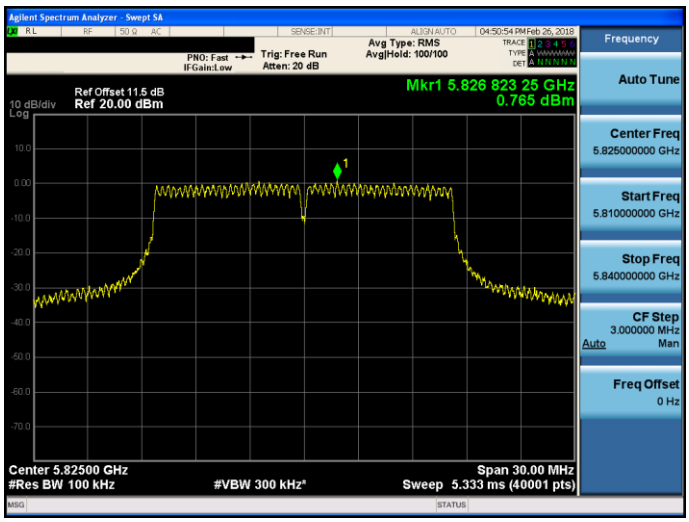
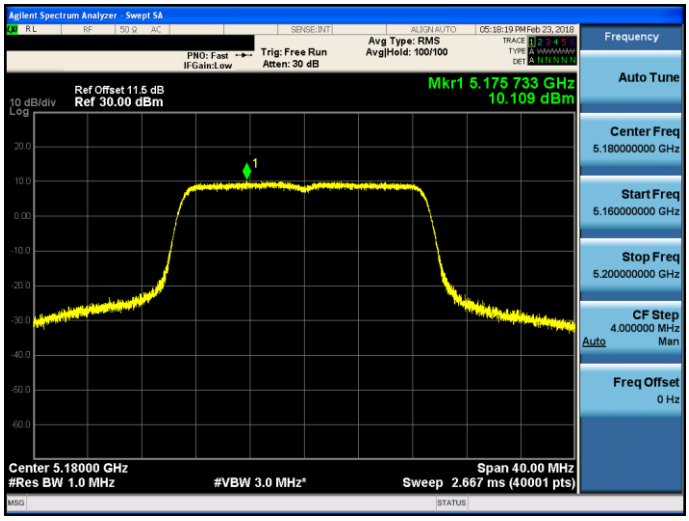
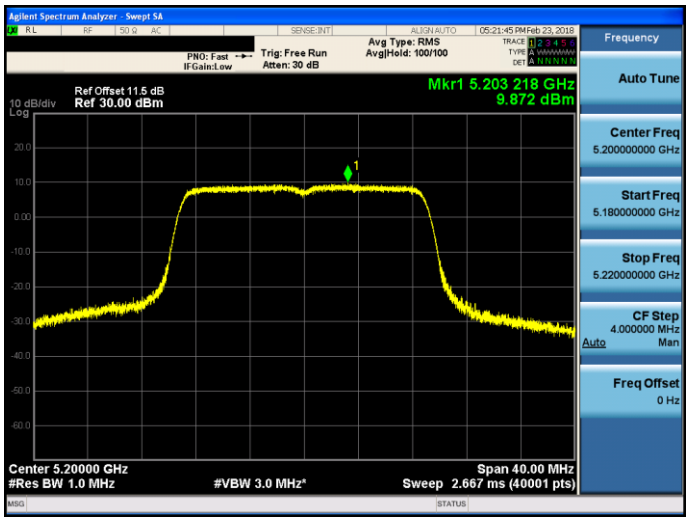
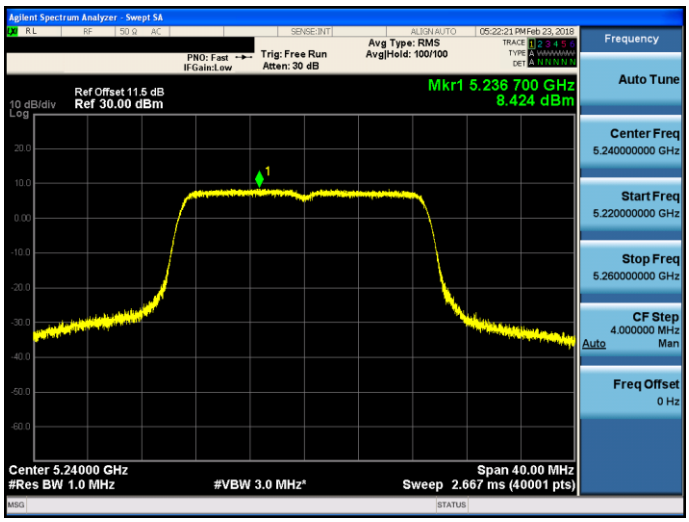
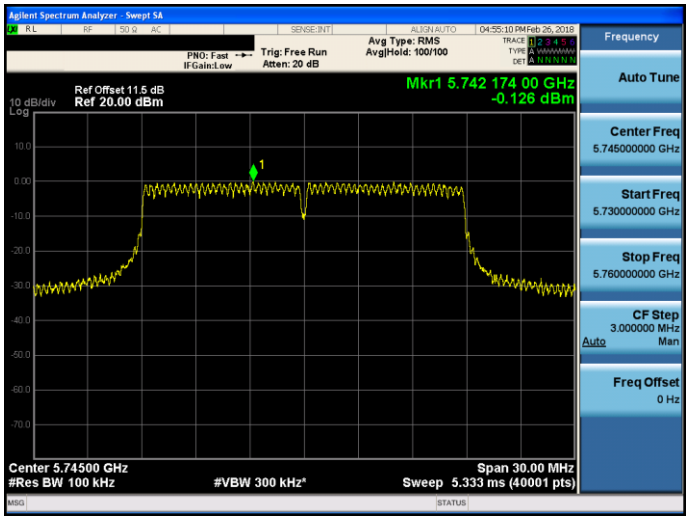
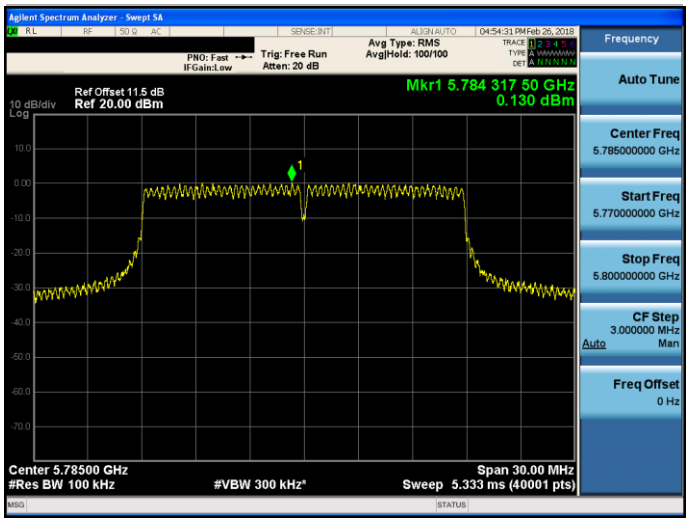
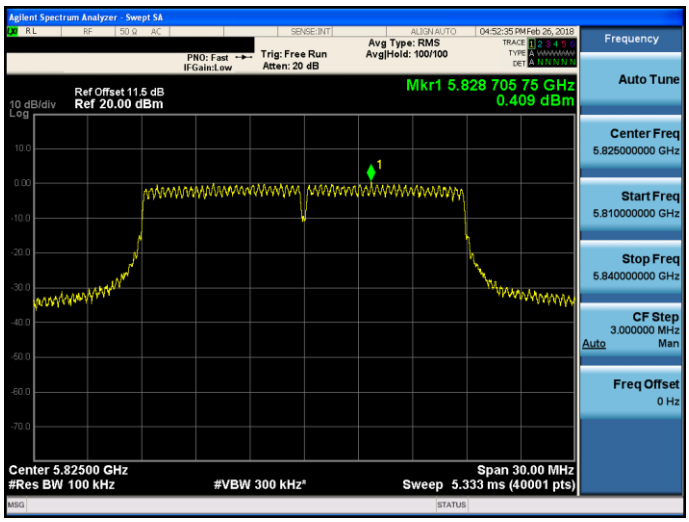
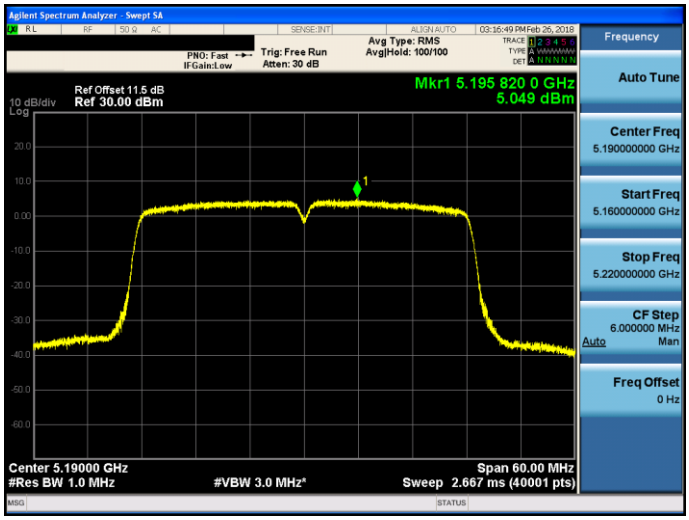
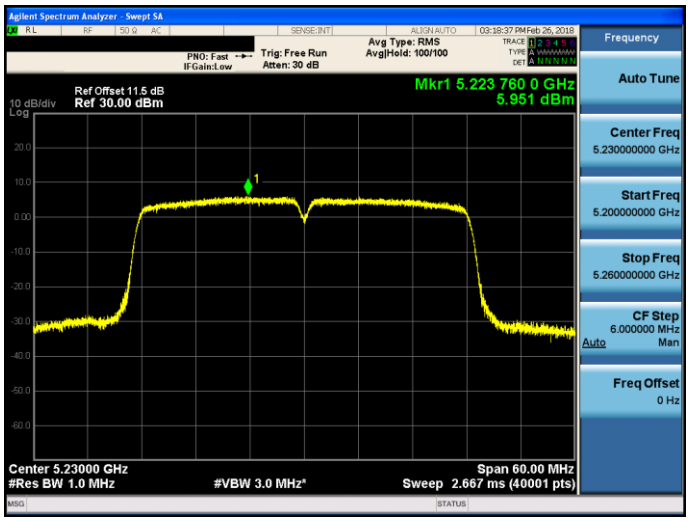
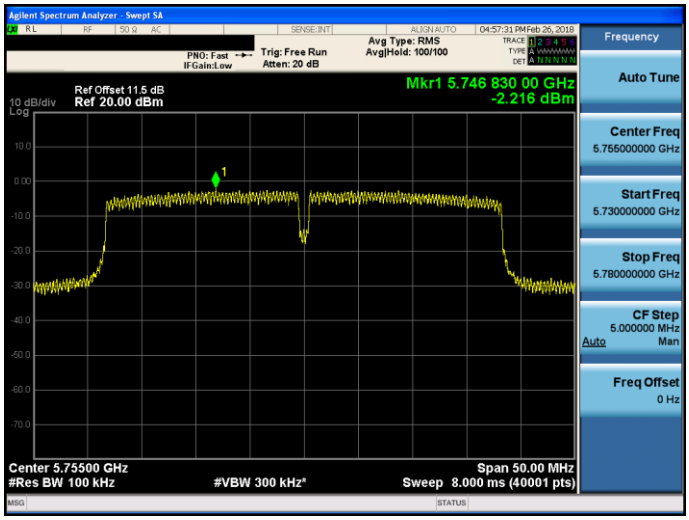
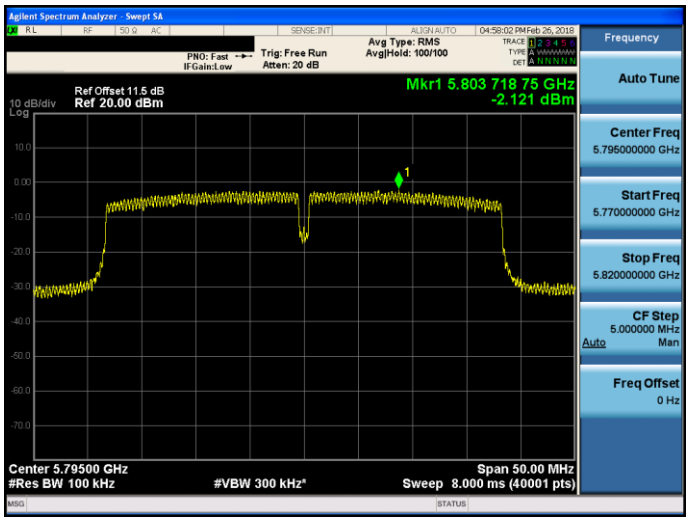
Mode 2: IEEE 802.11a Continuous TX mode_ ANT-1	
5180 MHz	
5200 MHz	
5240 MHz	

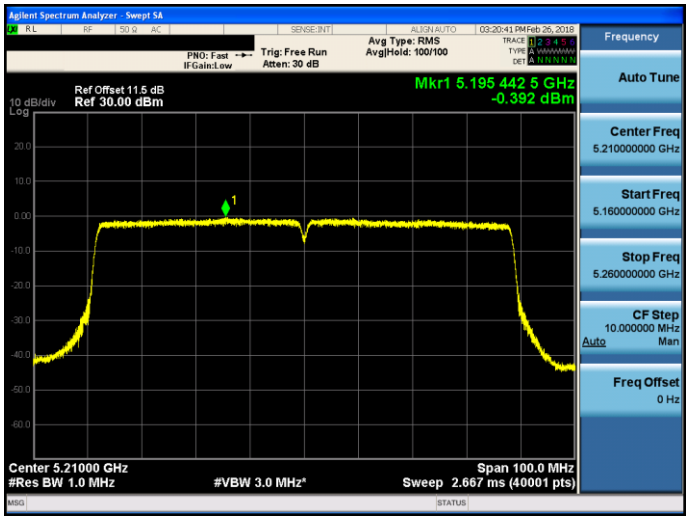
Mode 2: IEEE 802.11a Continuous TX mode_ ANT-1	
5745 MHz	
5785 MHz	
5825 MHz	

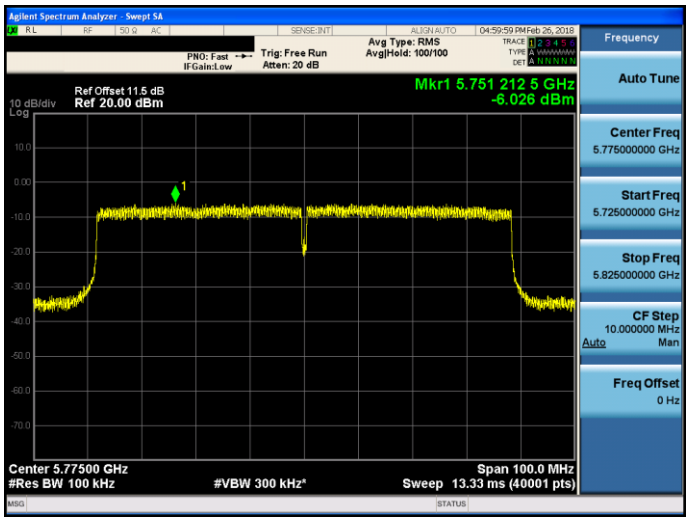
Mode 3: IEEE 802.11ac 20MHz Continuous TX mode _ ANT-1	
5180 MHz	
5200 MHz	
5240 MHz	

Mode 3: IEEE 802.11ac 20MHz Continuous TX mode _ ANT-1	
5745 MHz	
5785 MHz	
5825 MHz	

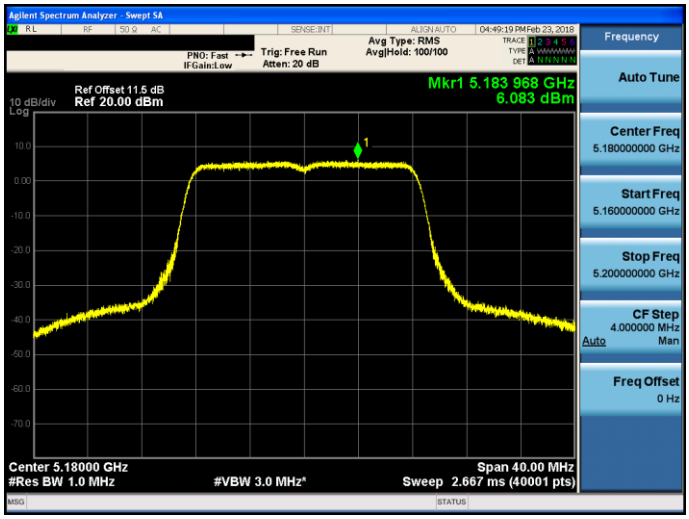
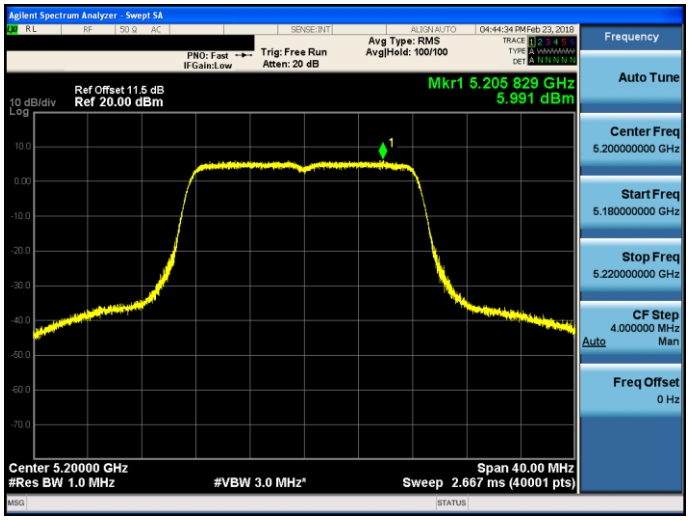
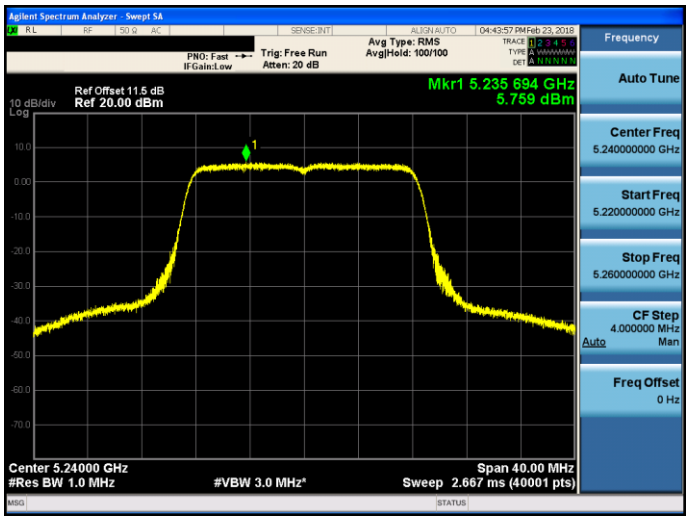
Mode 4: IEEE 802.11ac 40MHz Continuous TX mode_ ANT-1	
5190 MHz	
5230 MHz	

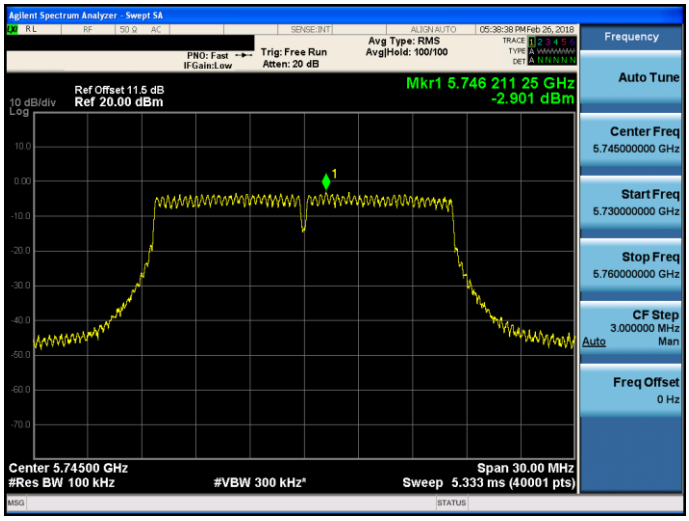
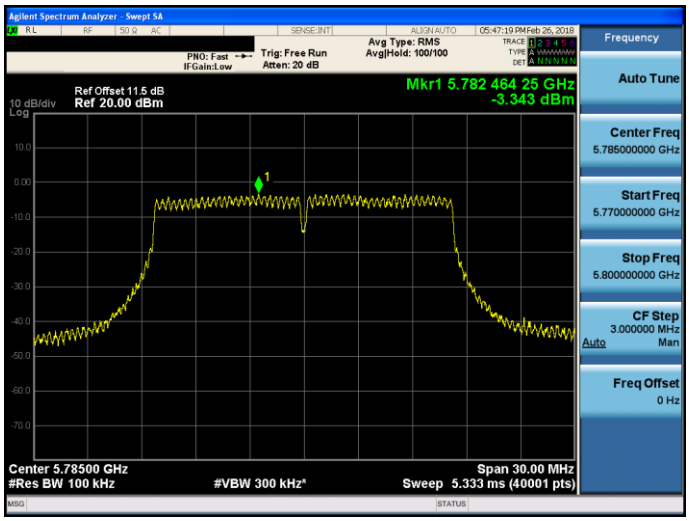
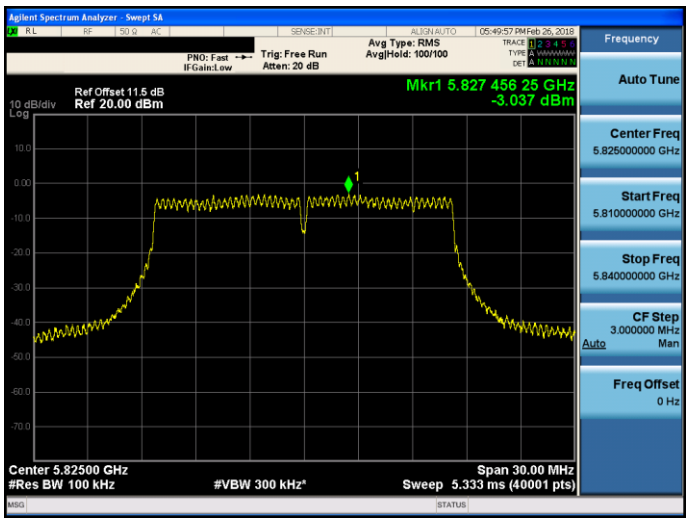
Mode 4: IEEE 802.11ac 40MHz Continuous TX mode_ ANT-1	
5755 MHz	
5795 MHz	

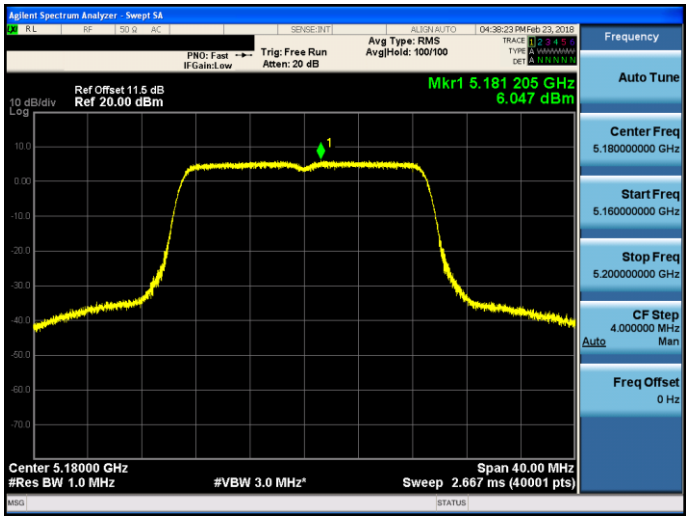
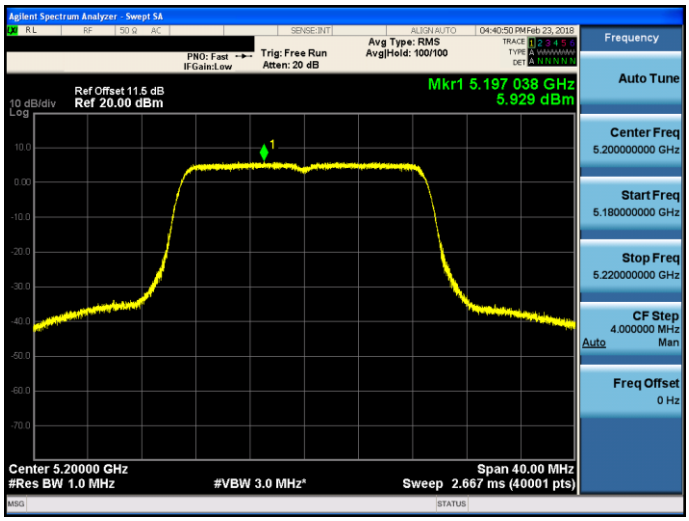
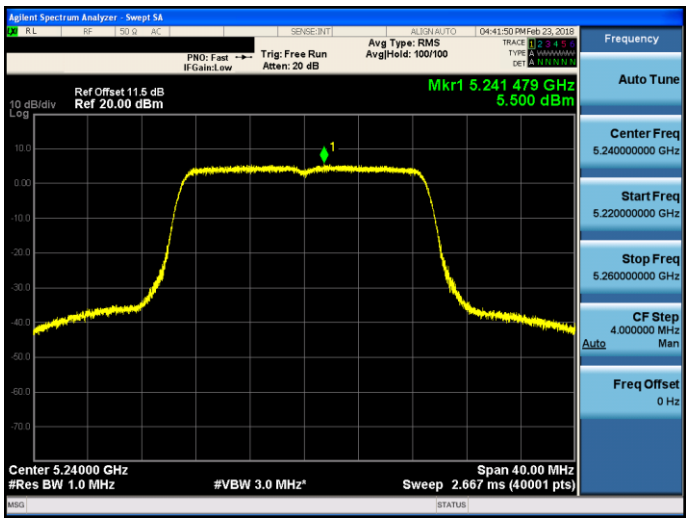
Mode 5: IEEE 802.11ac 80MHz Continuous TX mode _ ANT-1	
5210 MHz	

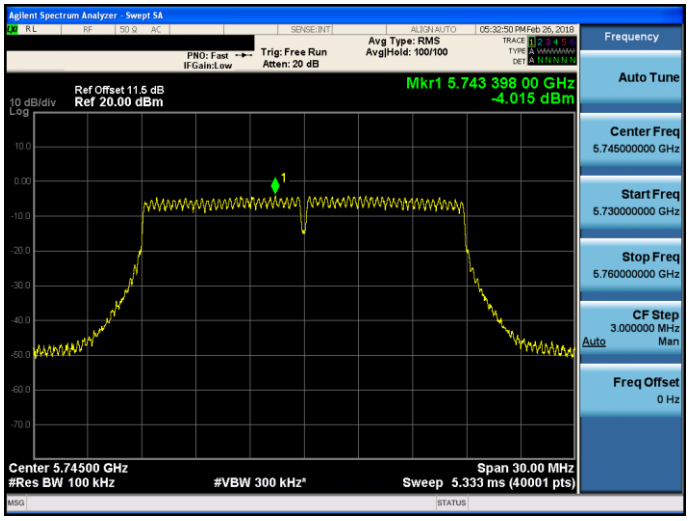
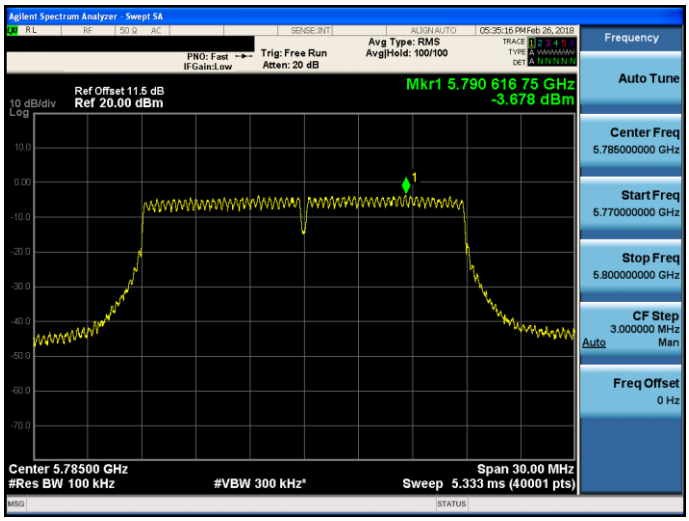
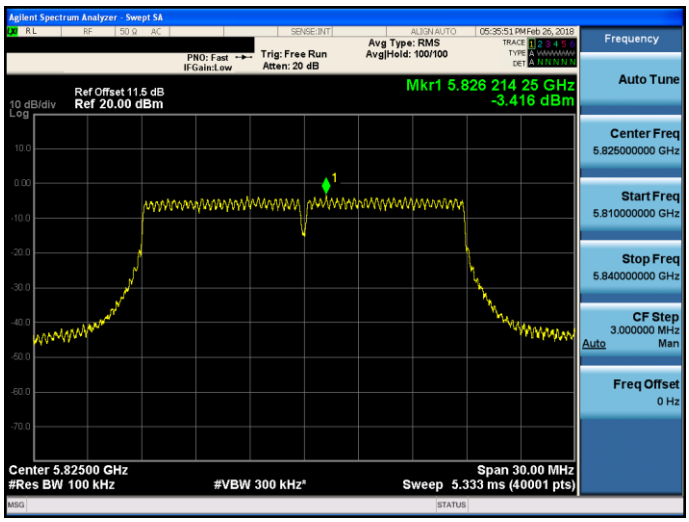
Mode 5: IEEE 802.11ac 80MHz Continuous TX mode _ ANT-1	
5775 MHz	

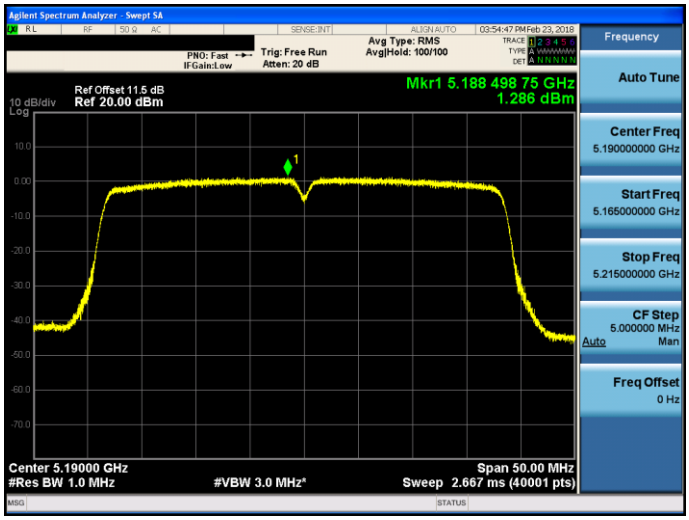
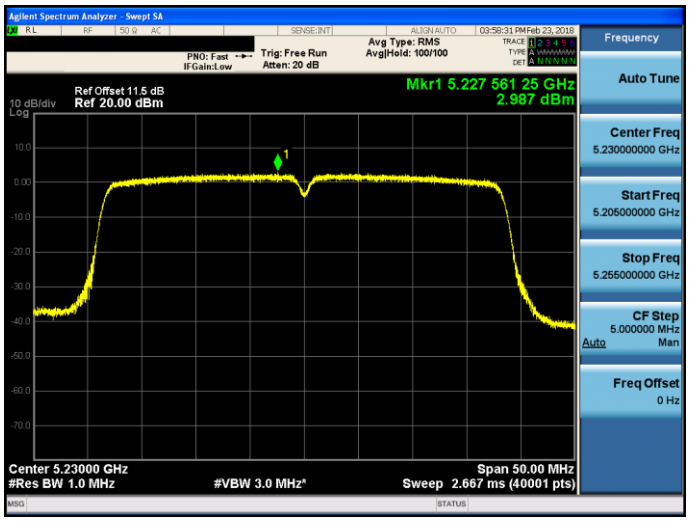
Beamforming on

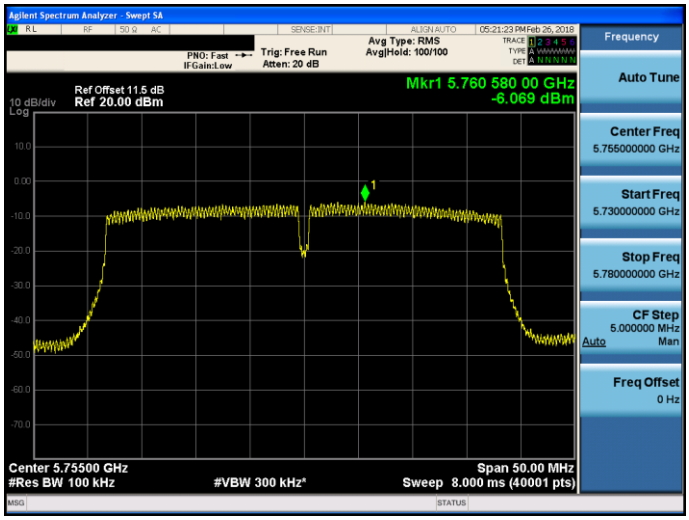
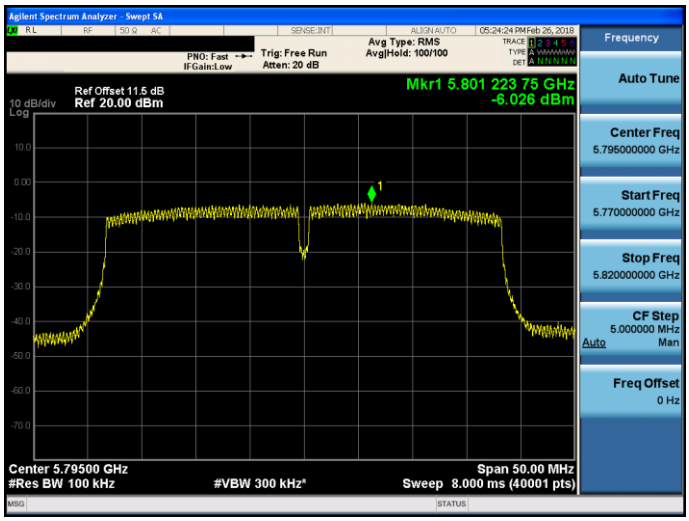
Mode 2: IEEE 802.11a Continuous TX mode_ ANT-0	
5180 MHz	
5200 MHz	
5240 MHz	

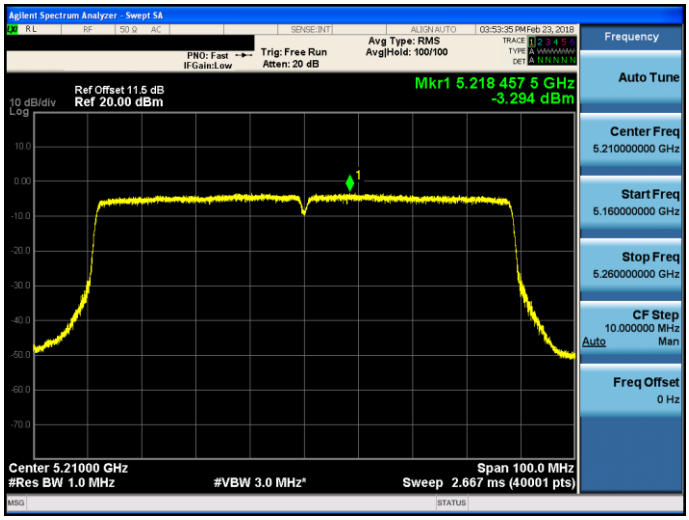
Mode 2: IEEE 802.11a Continuous TX mode_ ANT-0	
5745 MHz	
5785 MHz	
5825 MHz	

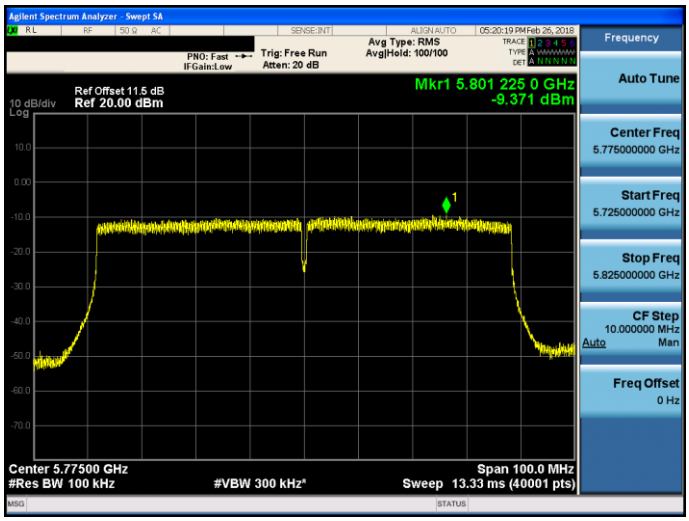
Mode 3: IEEE 802.11ac 20MHz Continuous TX mode _ ANT-0	
5180 MHz	
5200 MHz	
5240 MHz	

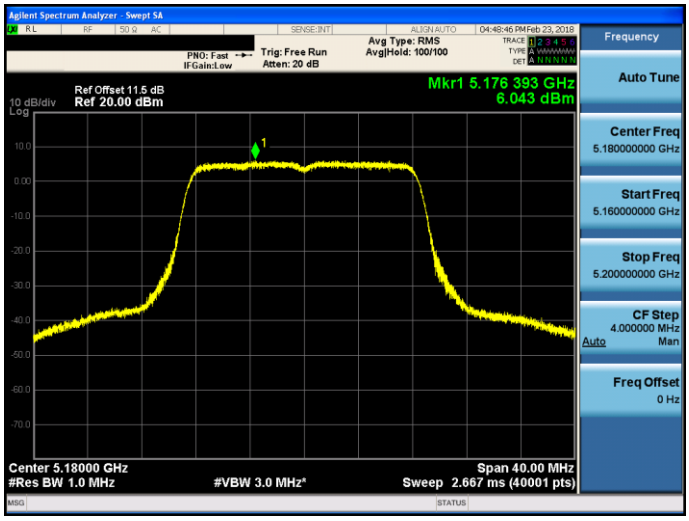
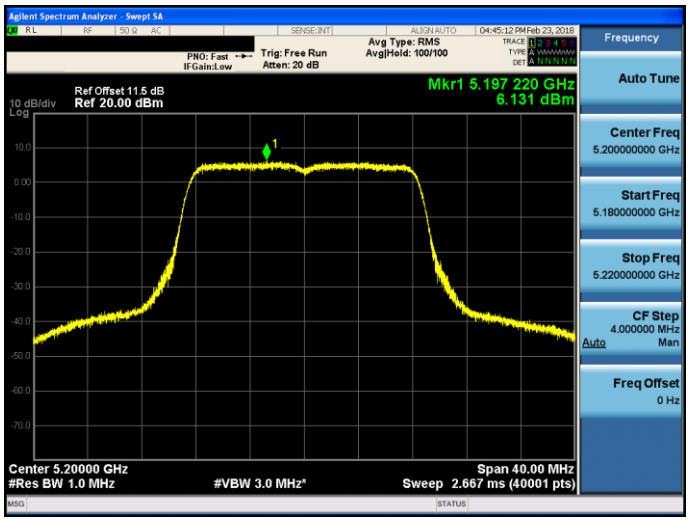
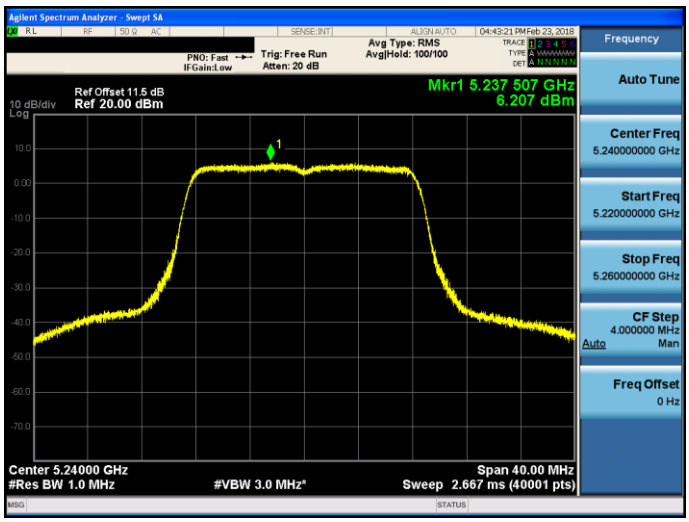
Mode 3: IEEE 802.11ac 20MHz Continuous TX mode _ ANT-0	
5745 MHz	
5785 MHz	
5825 MHz	

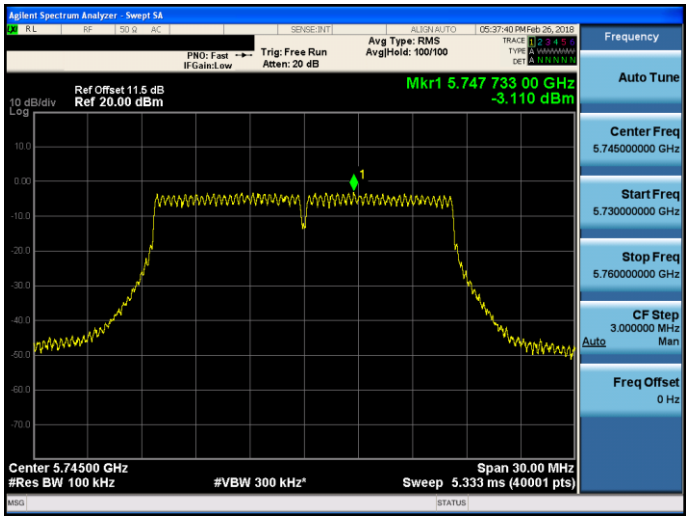
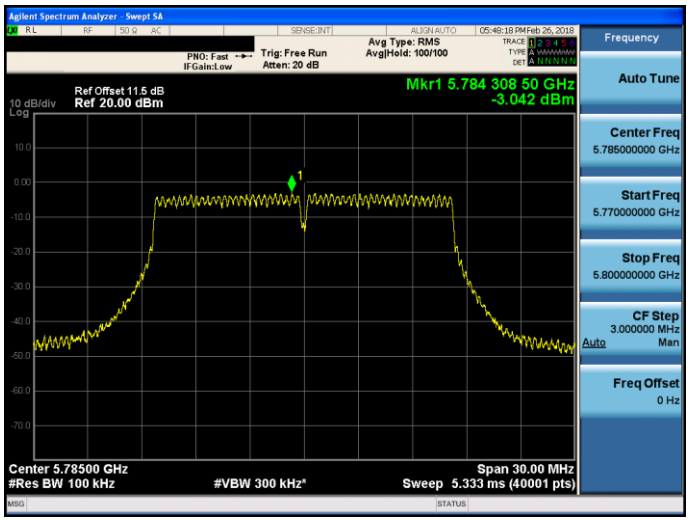
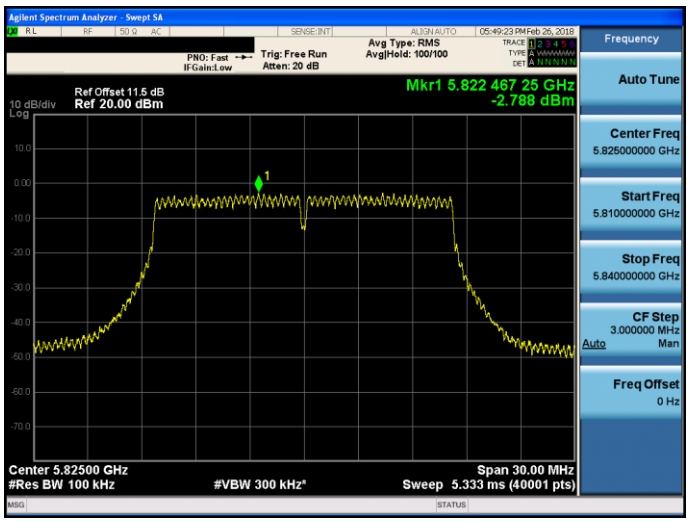
Mode 4: IEEE 802.11ac 40MHz Continuous TX mode_ ANT-0	
5190 MHz	
5230 MHz	

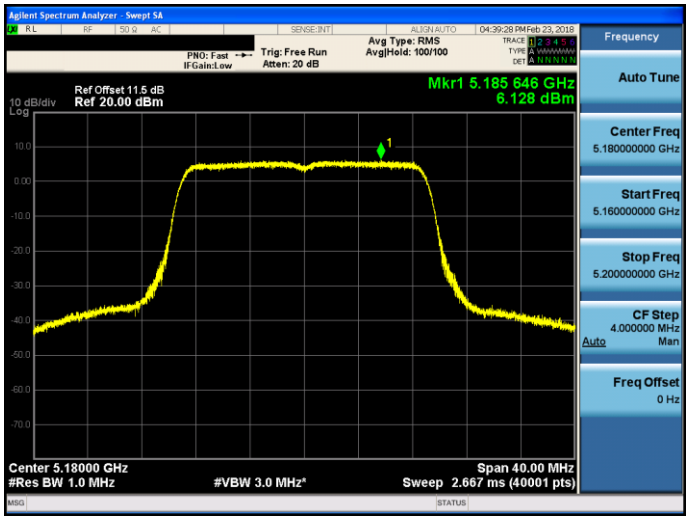
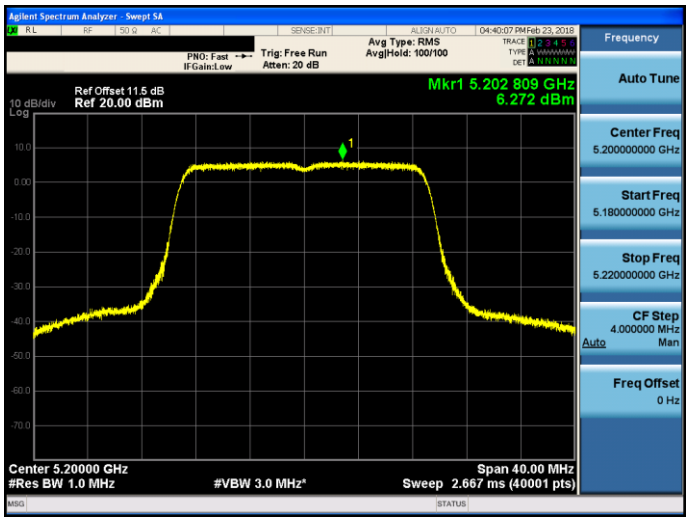
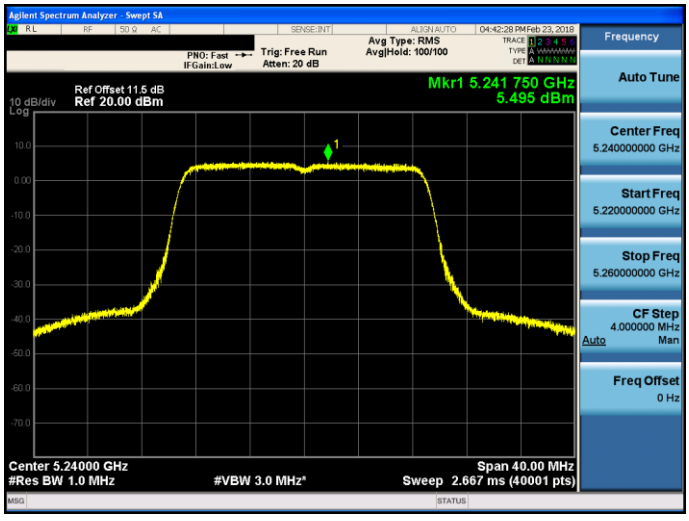
Mode 4: IEEE 802.11ac 40MHz Continuous TX mode_ ANT-0	
5755 MHz	
5795 MHz	

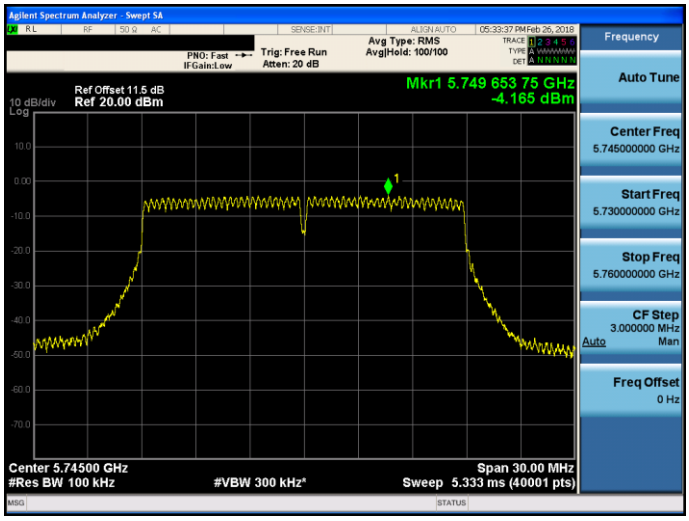
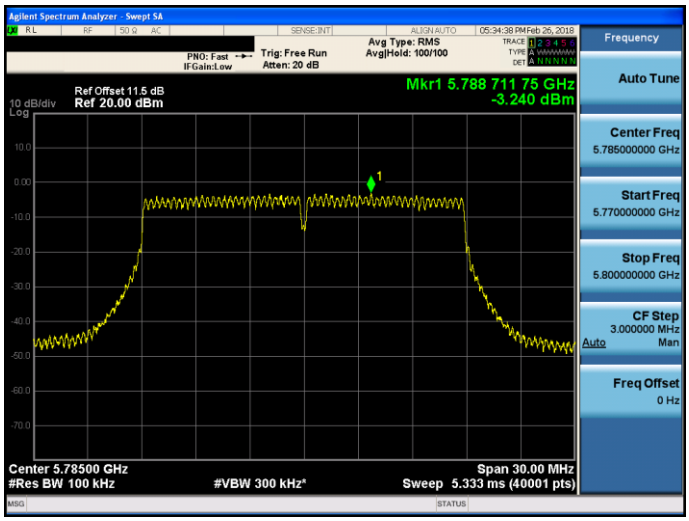
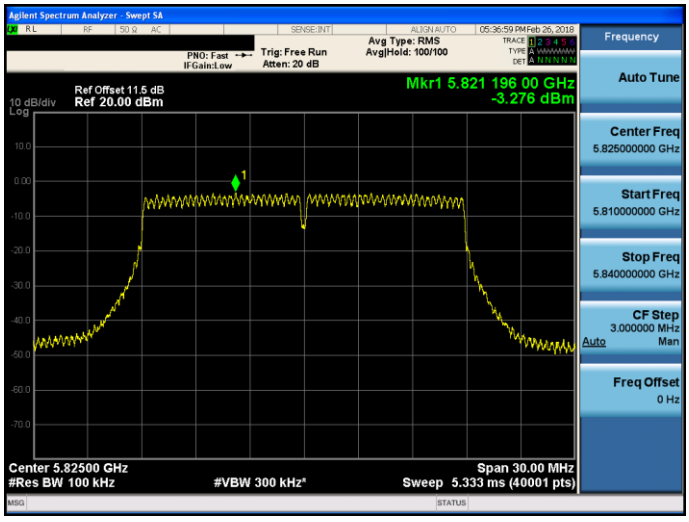
Mode 5: IEEE 802.11ac 80MHz Continuous TX mode _ ANT-0	
5210 MHz	

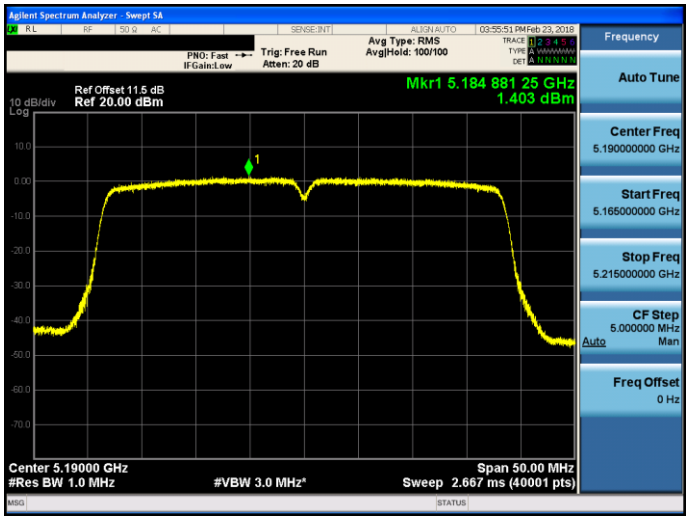
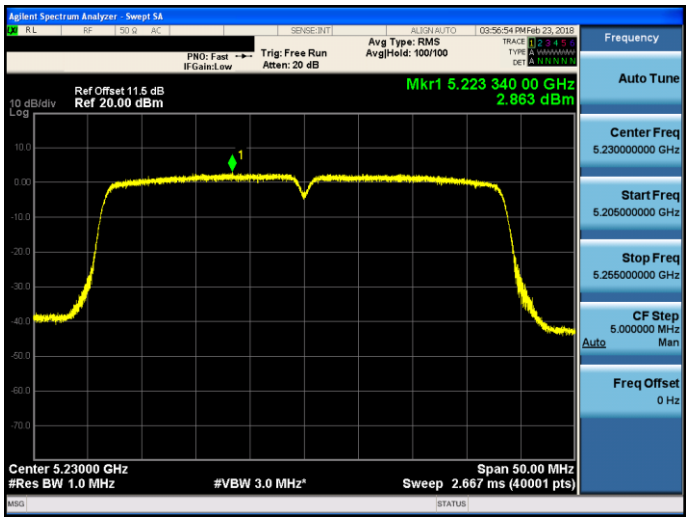
Mode 5: IEEE 802.11ac 80MHz Continuous TX mode _ ANT-0	
5775 MHz	

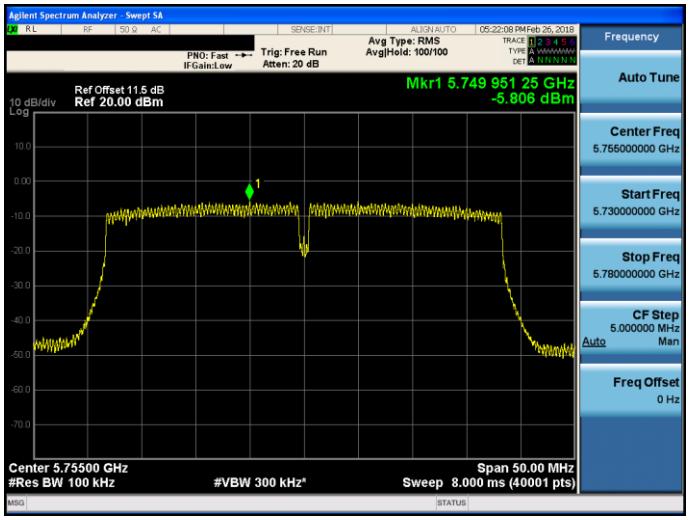
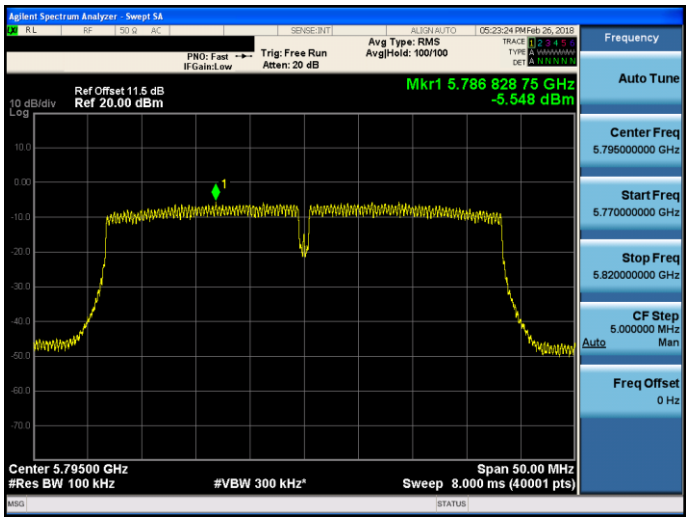
Mode 2: IEEE 802.11a Continuous TX mode_ ANT-1	
5180 MHz	
5200 MHz	
5240 MHz	

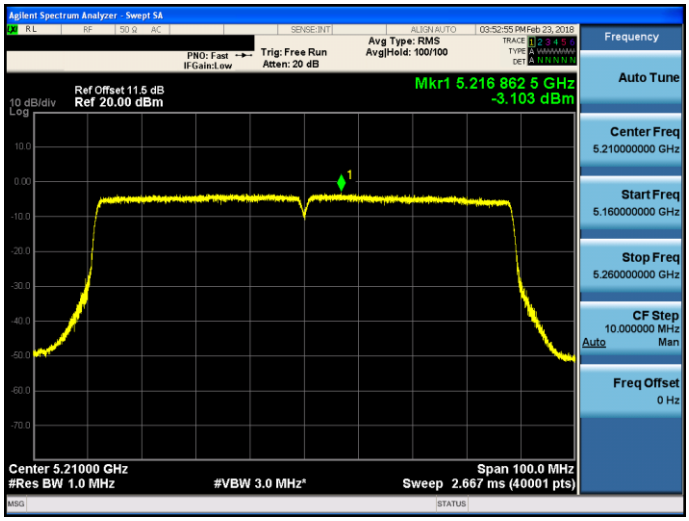
Mode 2: IEEE 802.11a Continuous TX mode_ ANT-1	
5745 MHz	
5785 MHz	
5825 MHz	

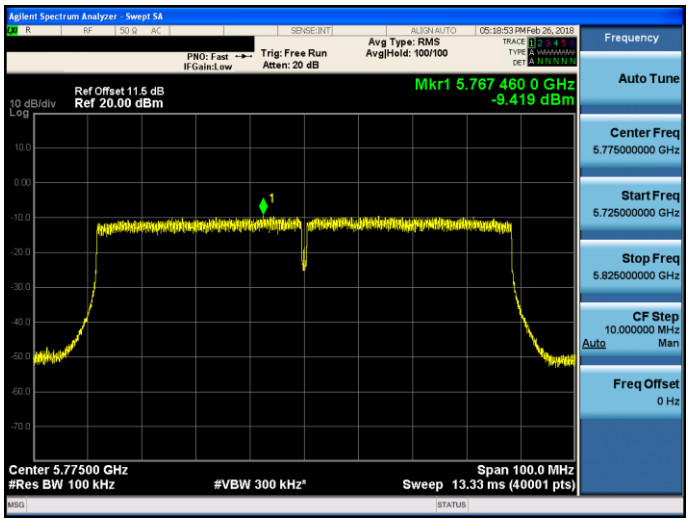
Mode 3: IEEE 802.11ac 20MHz Continuous TX mode _ ANT-1	
5180 MHz	
5200 MHz	
5240 MHz	

Mode 3: IEEE 802.11ac 20MHz Continuous TX mode _ ANT-1	
5745 MHz	
5785 MHz	
5825 MHz	

Mode 4: IEEE 802.11ac 40MHz Continuous TX mode_ ANT-1	
5190 MHz	
5230 MHz	

Mode 4: IEEE 802.11ac 40MHz Continuous TX mode_ ANT-1	
5755 MHz	
5795 MHz	

Mode 5: IEEE 802.11ac 80MHz Continuous TX mode _ ANT-1	
5210 MHz	

Mode 5: IEEE 802.11ac 80MHz Continuous TX mode _ ANT-1	
5775 MHz	

5.7. Frequency Stability Measurement

Temperature Variations

Frequency	Temp. (°C)	Voltage (Vac)	Measured Freq. (MHz)	Delta Freq. (Hz)	Tolerance (ppm)	Result (Pass/Fail)
5200 MHz	0	120	5199.9743	-25700	-4.942	Pass
	10		5199.9768	-23200	-4.462	Pass
	20		5199.9772	-22800	-4.385	Pass
	30		5199.9777	-22300	-4.288	Pass
	40		5199.9782	-21800	-4.192	Pass
	50		5199.9786	-21400	-4.115	Pass
5785 MHz	0	120	5784.9558	-44200	-7.640	Pass
	10		5784.9563	-43700	-7.554	Pass
	20		5784.9568	-43200	-7.468	Pass
	30		5784.9575	-42500	-7.347	Pass
	40		5784.9578	-42200	-7.295	Pass
	50		5784.9584	-41600	-7.191	Pass

Voltage Variations

Frequency	Temp. (°C)	Voltage (Vac)	Measured Freq. (MHz)	Delta Freq. (Hz)	Tolerance (ppm)	Result (Pass/Fail)
5200 MHz	20	138.00	5199.977	-23000	-4.423	Pass
		120.00	5199.9772	-22800	-4.385	Pass
		102.00	5199.9777	-22300	-4.288	Pass
5785 MHz	20	138.00	5784.9567	-43300	-7.485	Pass
		120.00	5784.9568	-43200	-7.468	Pass
		102.00	5784.9572	-42800	-7.398	Pass

Note: The manufacturer's frequency stability specification is better then 20ppm.

Beamforming on

Temperature Variations

Frequency	Temp. (°C)	Voltage (Vac)	Measured Freq. (MHz)	Delta Freq. (Hz)	Tolerance (ppm)	Result (Pass/Fail)
5200 MHz	0	120	5199.9743	-25700	-4.942	Pass
	10		5199.9768	-23200	-4.462	Pass
	20		5199.9772	-22800	-4.385	Pass
	30		5199.9777	-22300	-4.288	Pass
	40		5199.9782	-21800	-4.192	Pass
	50		5199.9786	-21400	-4.115	Pass
5785 MHz	0	120	5784.9558	-44200	-7.640	Pass
	10		5784.9563	-43700	-7.554	Pass
	20		5784.9568	-43200	-7.468	Pass
	30		5784.9575	-42500	-7.347	Pass
	40		5784.9578	-42200	-7.295	Pass
	50		5784.9584	-41600	-7.191	Pass

Voltage Variations

Frequency	Temp. (°C)	Voltage (Vac)	Measured Freq. (MHz)	Delta Freq. (Hz)	Tolerance (ppm)	Result (Pass/Fail)
5200 MHz	20	138.00	5199.977	-23000	-4.423	Pass
		120.00	5199.9772	-22800	-4.385	Pass
		102.00	5199.9777	-22300	-4.288	Pass
5785 MHz	20	138.00	5784.9567	-43300	-7.485	Pass
		120.00	5784.9568	-43200	-7.468	Pass
		102.00	5784.9572	-42800	-7.398	Pass

Note: The manufacturer's frequency stability specification is better then 20ppm.

5.8. Automatically discontinue transmission

While the EUT is not transmitting any information, the EUT can automatically discontinue transmission and become standby mode for power saving.

5.9. Antenna Requirement

■ **Antenna Connector Construction**

See section 2 – antenna information.

■ **Directional Gain Calculated**

Directional Gain =10*log{[10^(G1/20)+10^(G2/20)+…+10^(Gn/20)]^2/NANT}

Operate Freq. Band		Directional Gain (dBi)
IEEE 802.11a	U-NII Band I	7.02
	U-NII Band III	7.16
IEEE 802.11ac 20MHz	U-NII Band I	7.02
	U-NII Band III	7.16
IEEE 802.11ac 40MHz	U-NII Band I	7.02
	U-NII Band III	7.16
IEEE 802.11ac 80MHz	U-NII Band I	7.02
	U-NII Band III	7.16