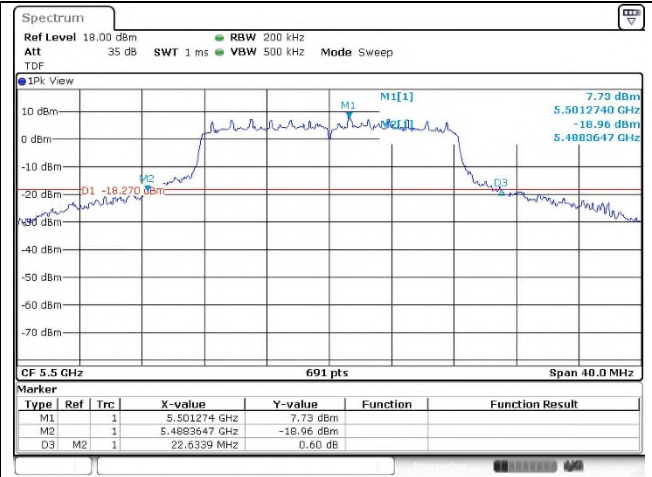
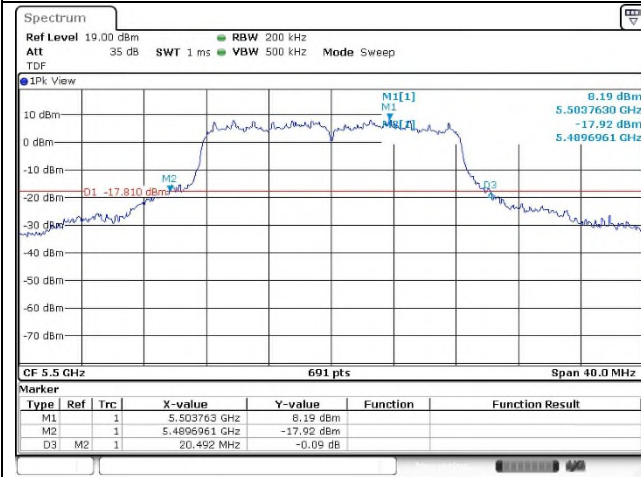


OFDM: 802.11a (Band 2C)

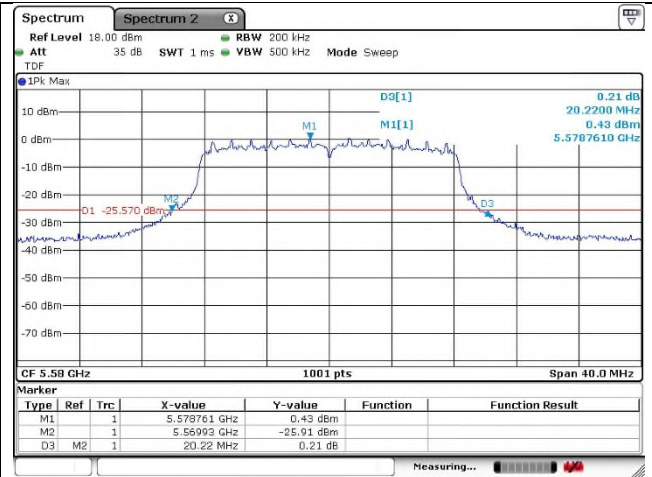
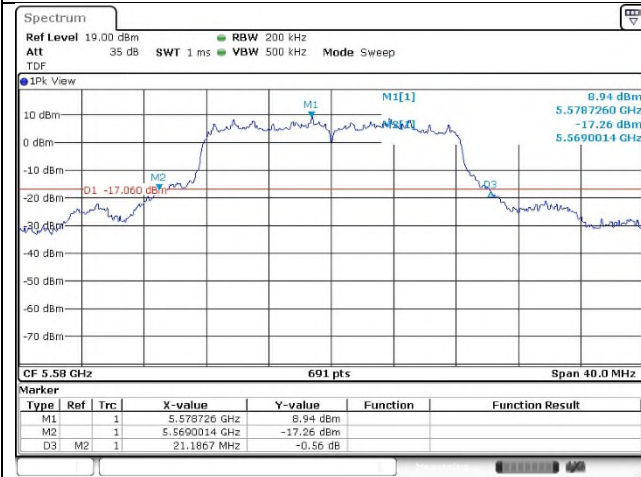
Ant.1

Ant.2

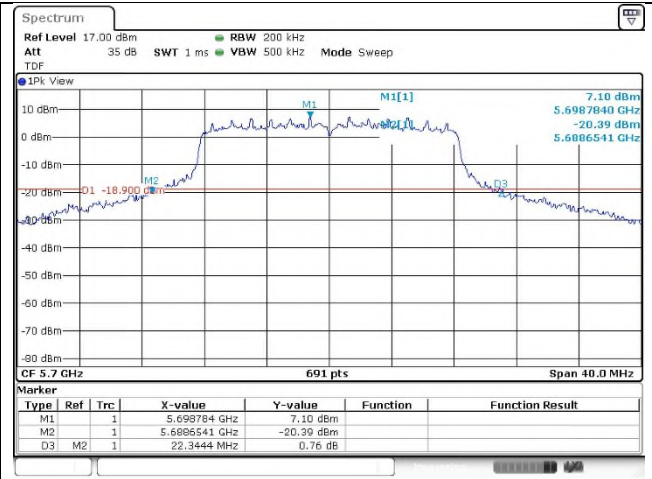
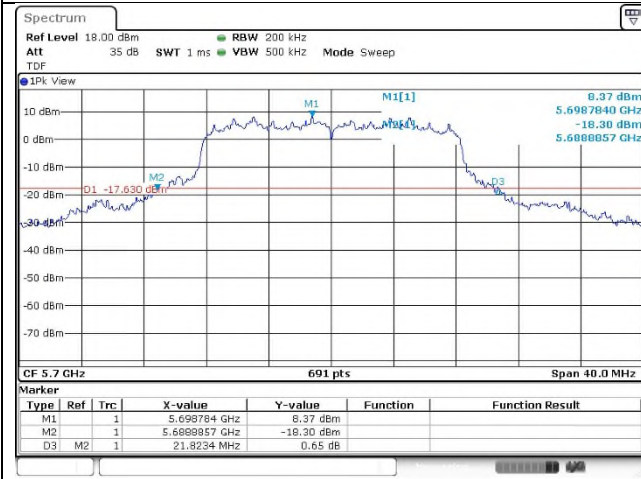
Low channel



Middle channel



High channel

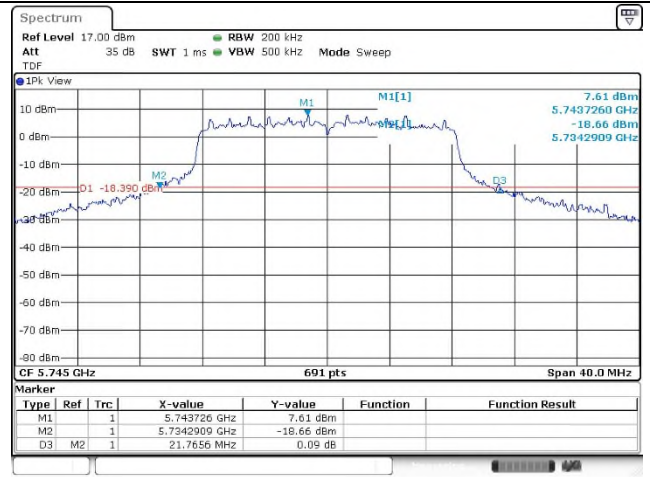
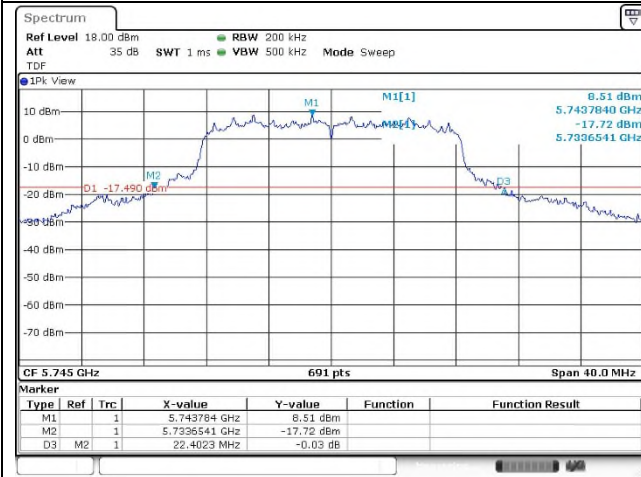


OFDM: 802.11a (Band 3)

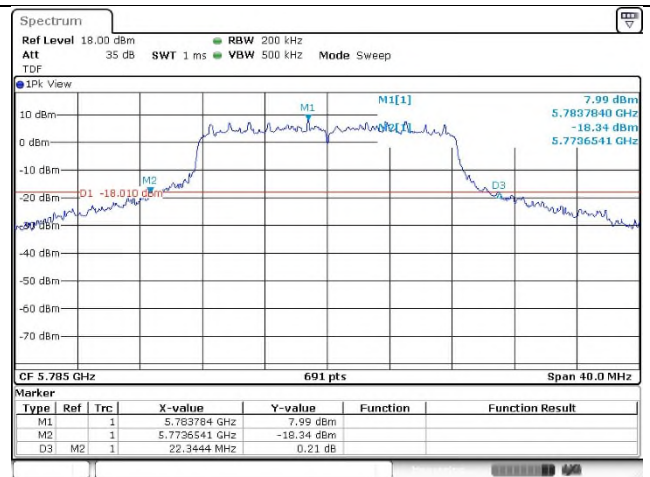
Ant.1

Ant.2

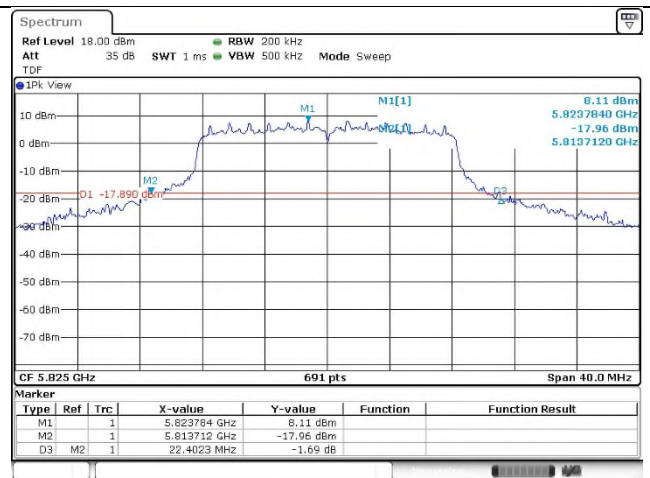
Low channel



Middle channel



High channel

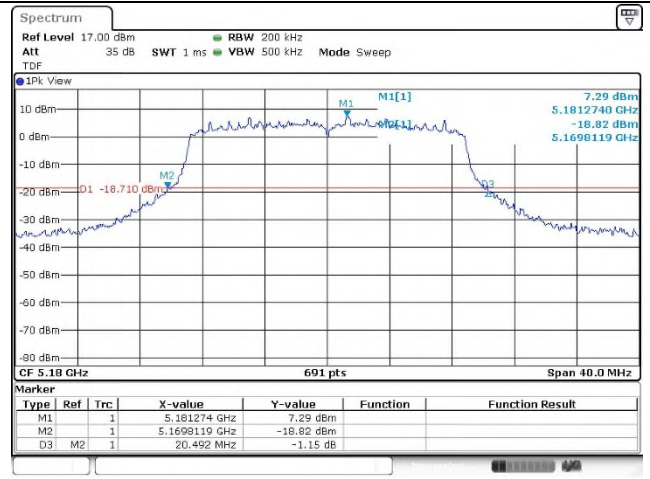
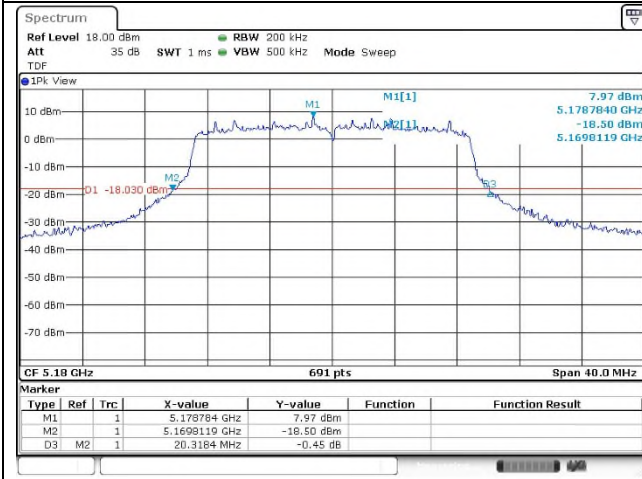


OFDM: 802.11ac_VHT20 (Band 1)

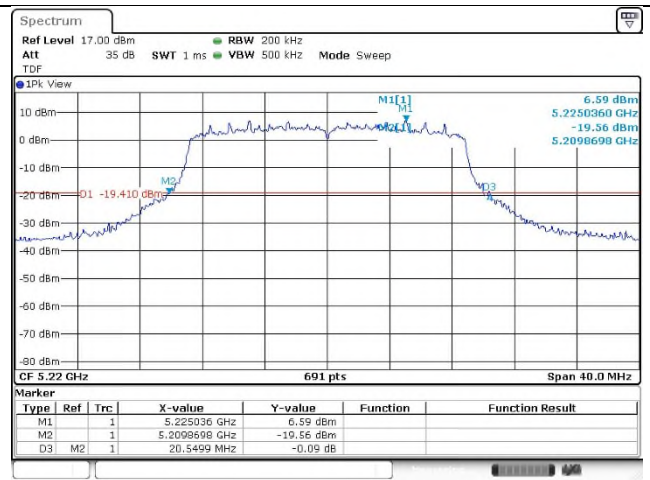
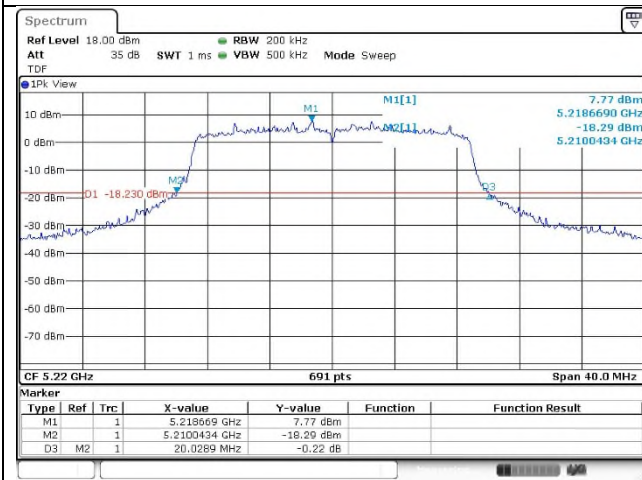
Ant.1

Ant.2

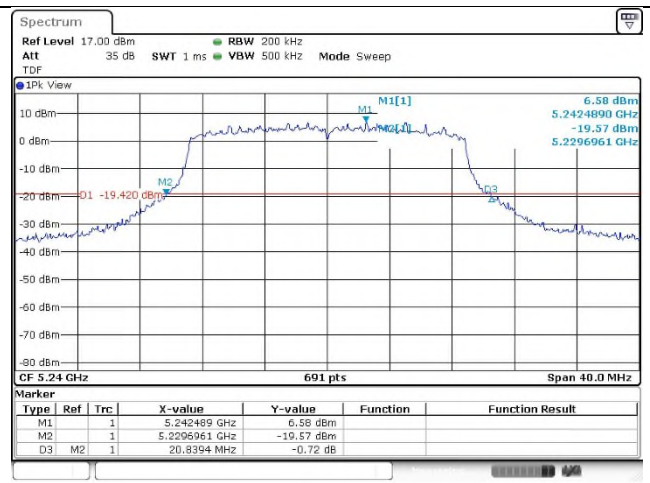
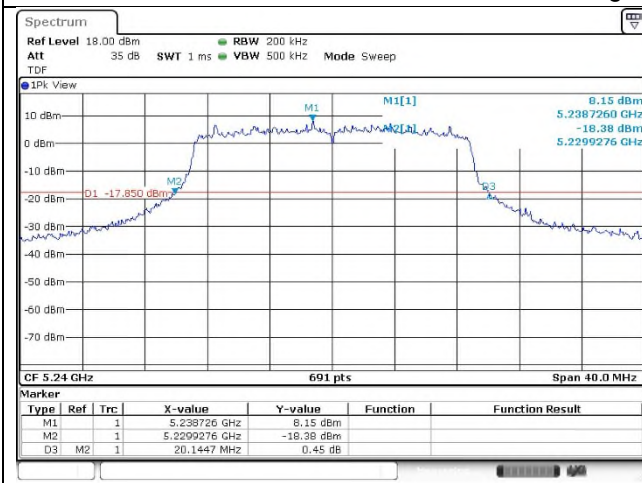
Low channel



Middle channel



High channel

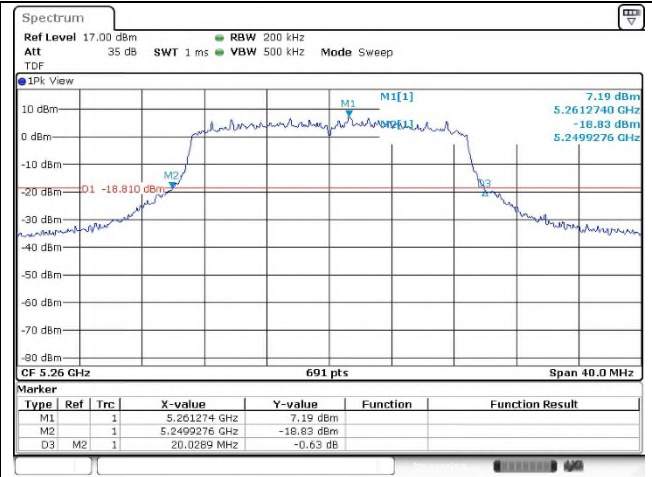
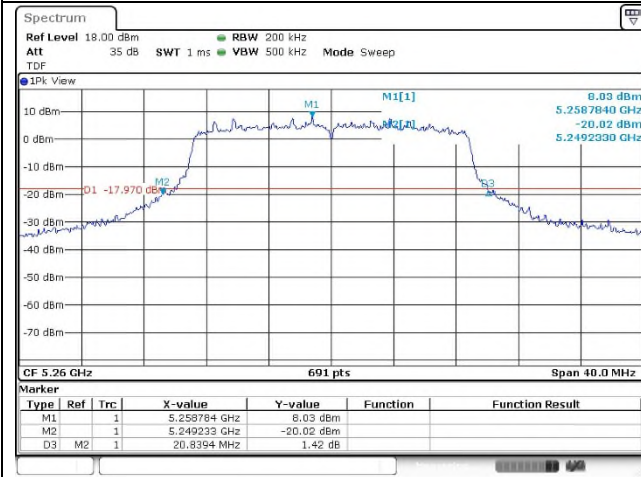


OFDM: 802.11ac_VHT20 (Band 2A)

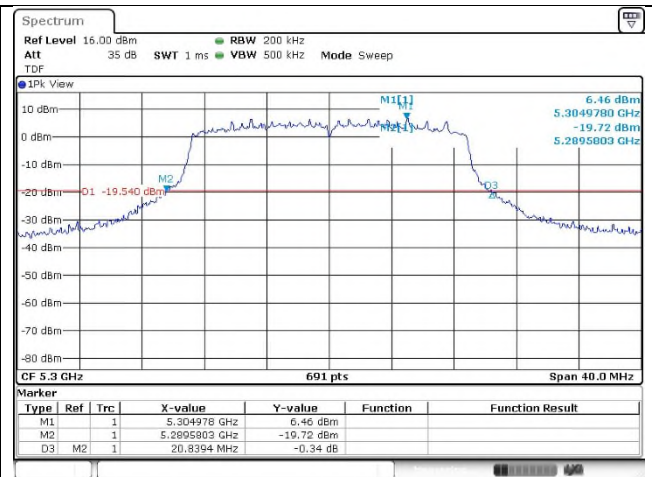
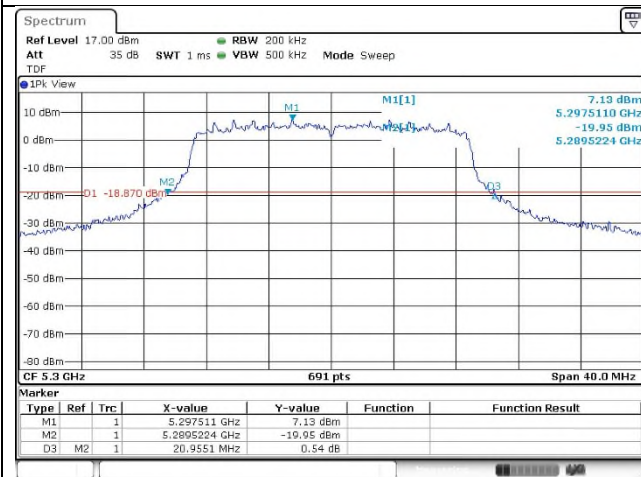
Ant.1

Ant.2

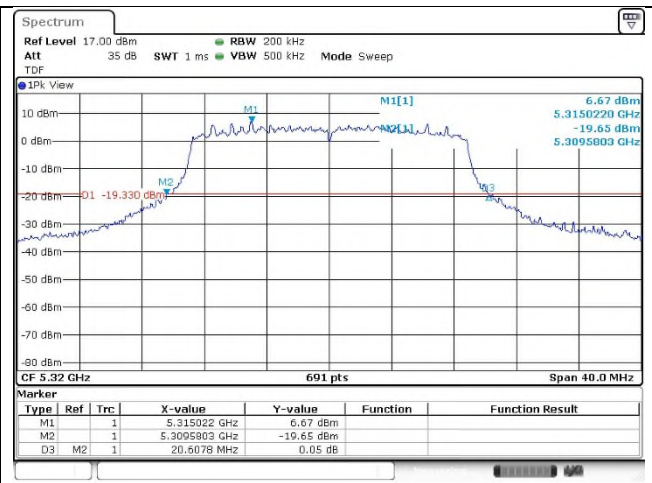
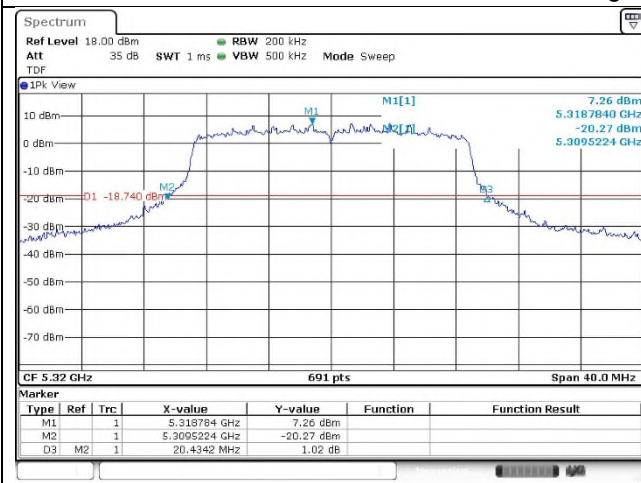
Low channel



Middle channel



High channel

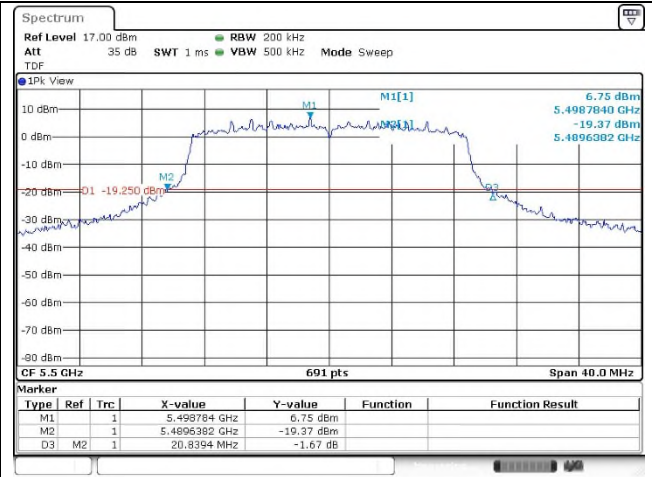
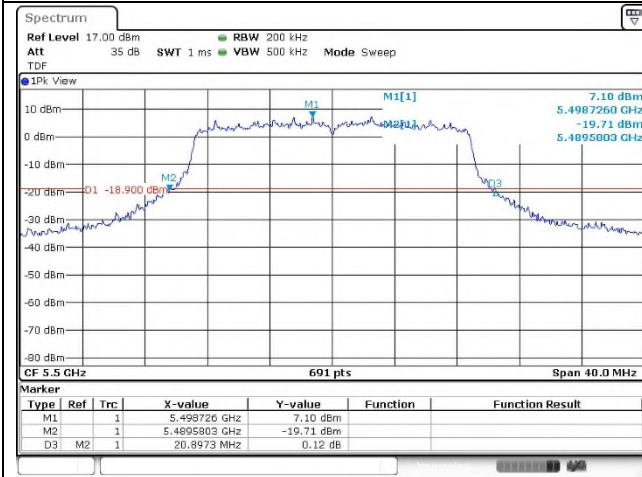


OFDM: 802.11ac_VHT20 (Band 2C)

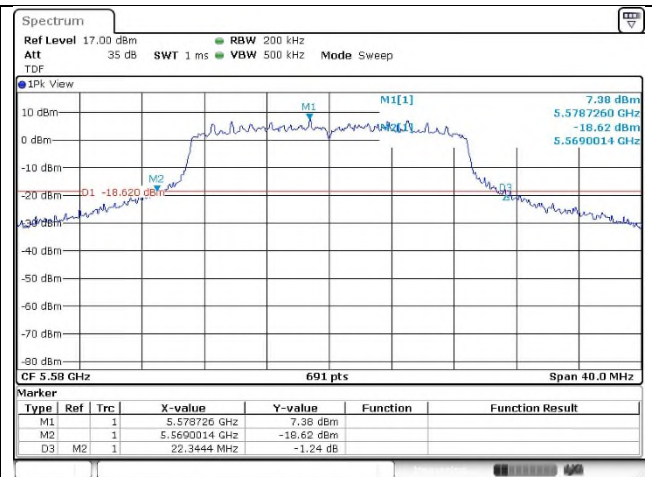
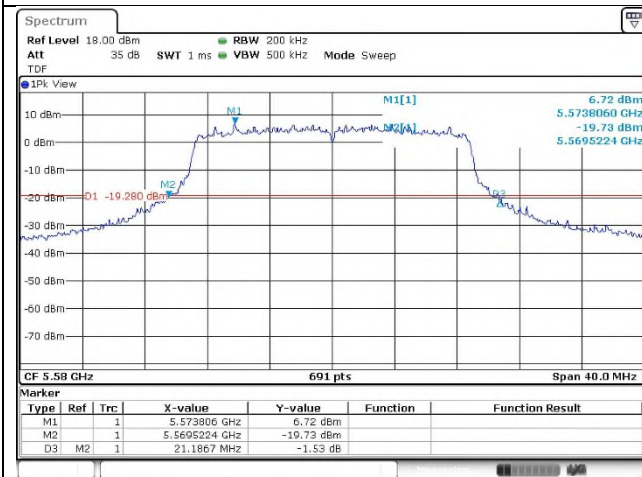
Ant.1

Ant.2

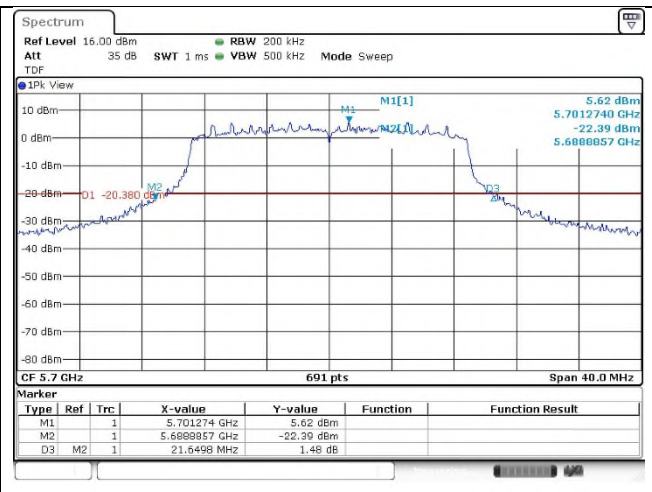
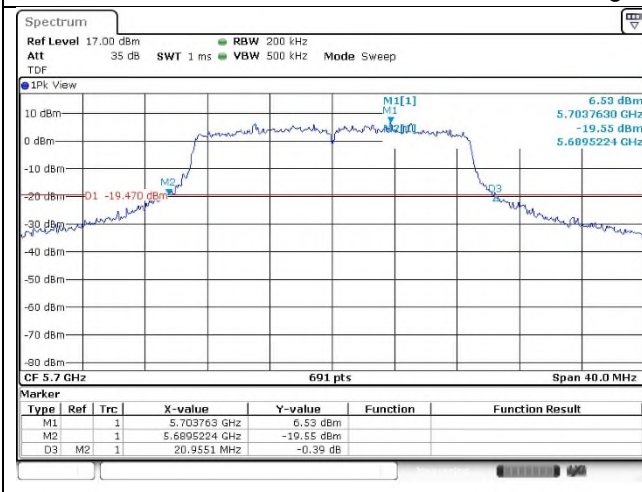
Low channel



Middle channel



High channel

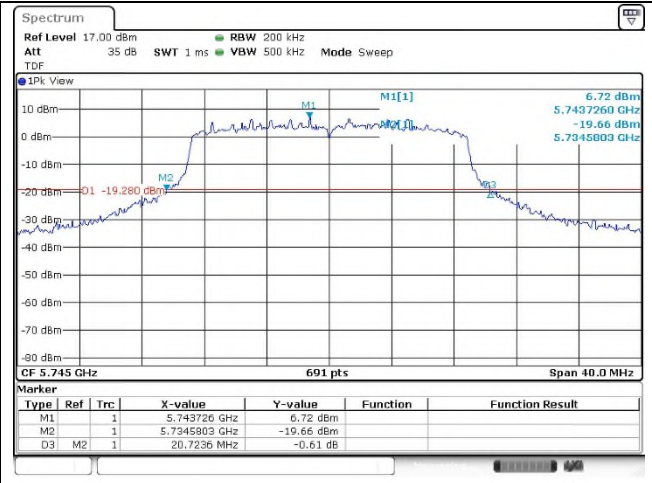
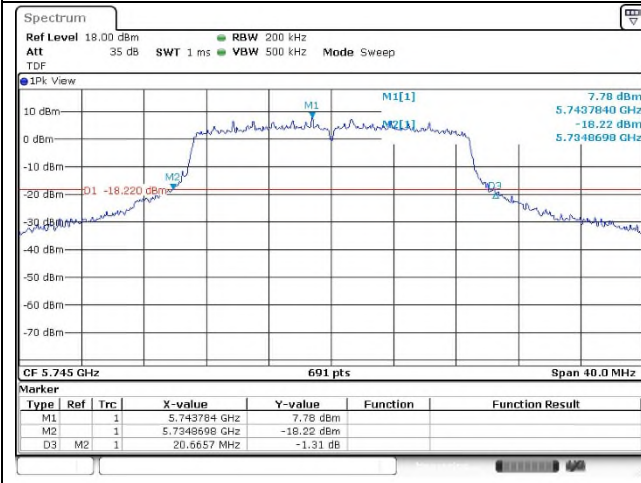


OFDM: 802.11ac_VHT20 (Band 3)

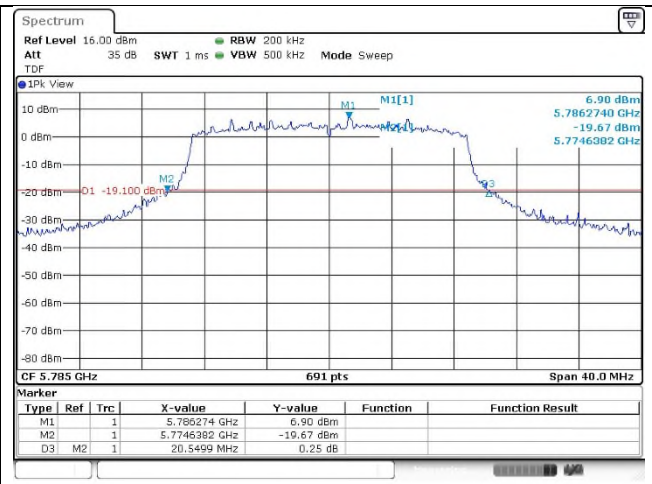
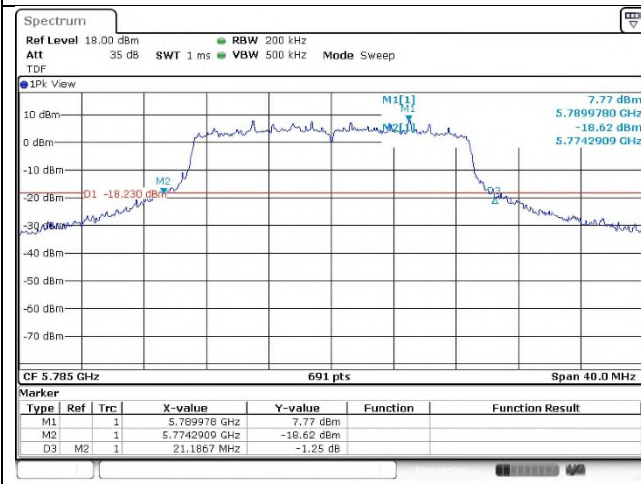
Ant.1

Ant.2

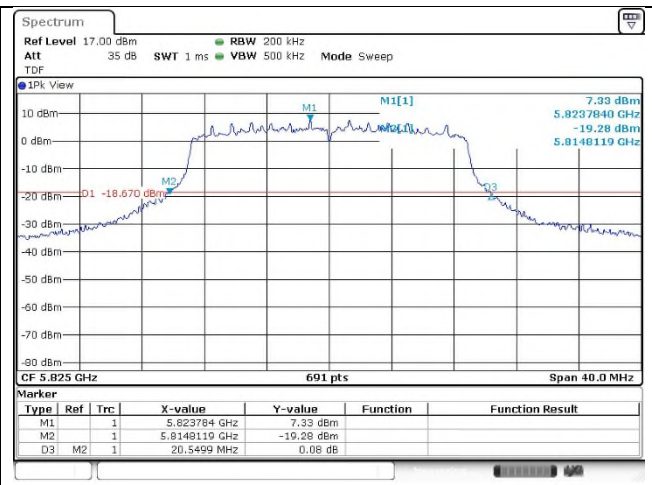
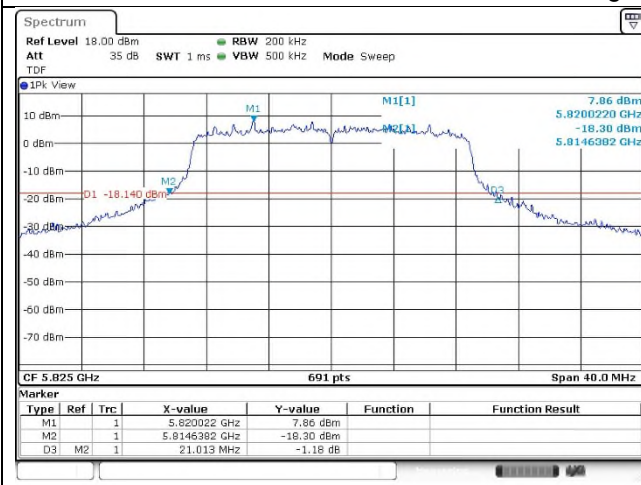
Low channel



Middle channel



High channel

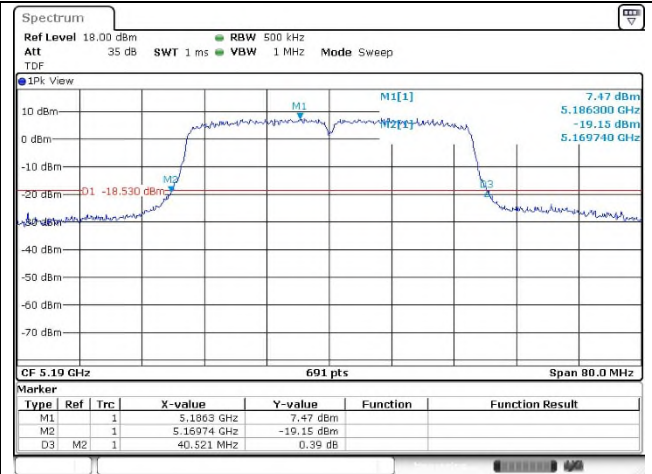
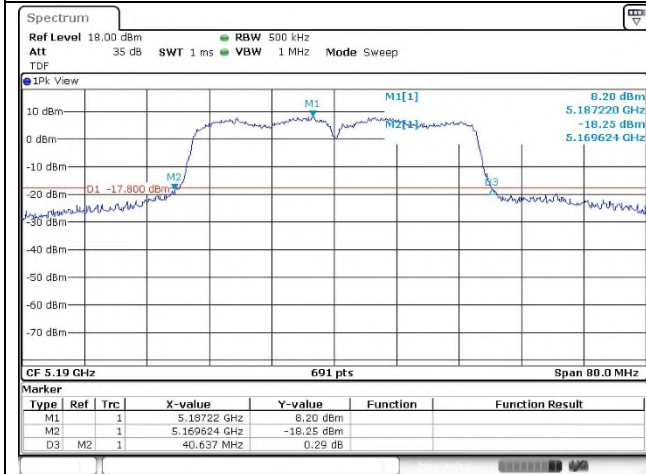


OFDM: 802.11n_HT40 (Band 1)

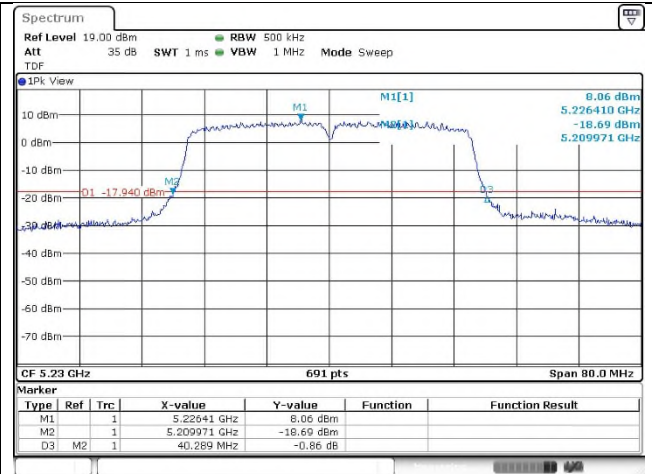
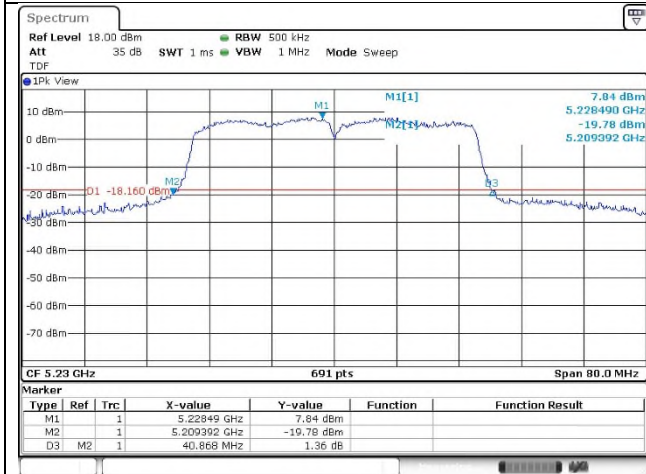
Ant.1

Ant.2

Low channel



High channel

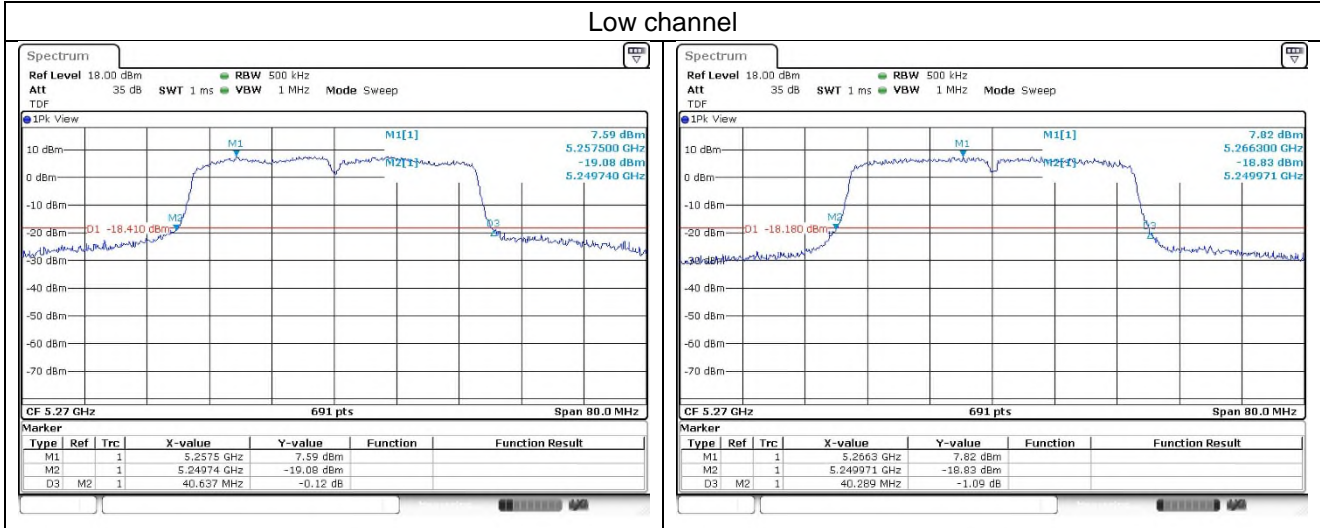


OFDM: 802.11n_HT40 (Band 2A)

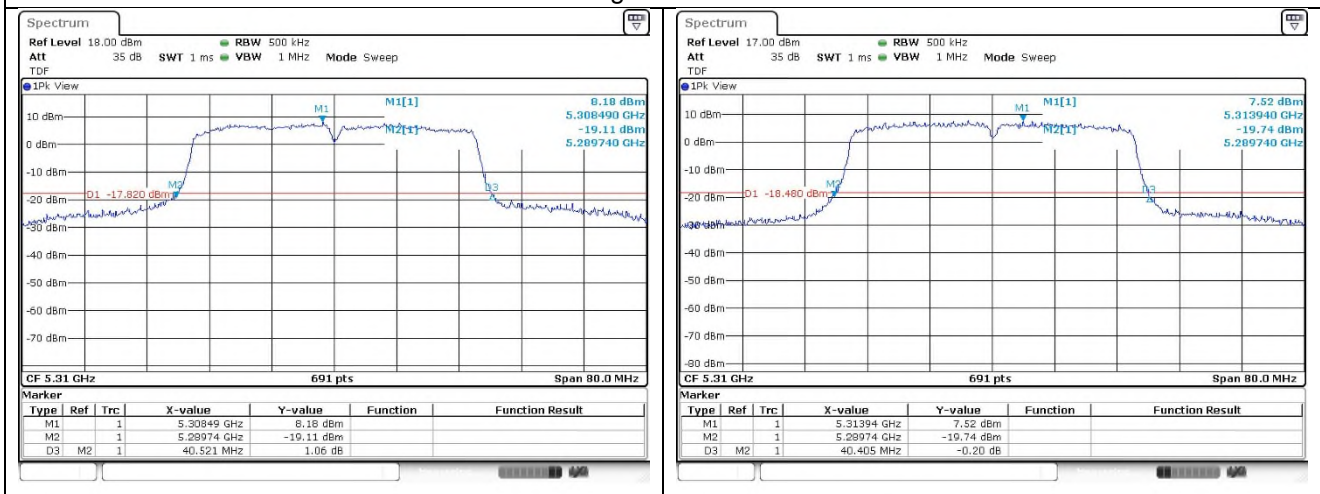
Ant.1

Ant.2

Low channel



High channel

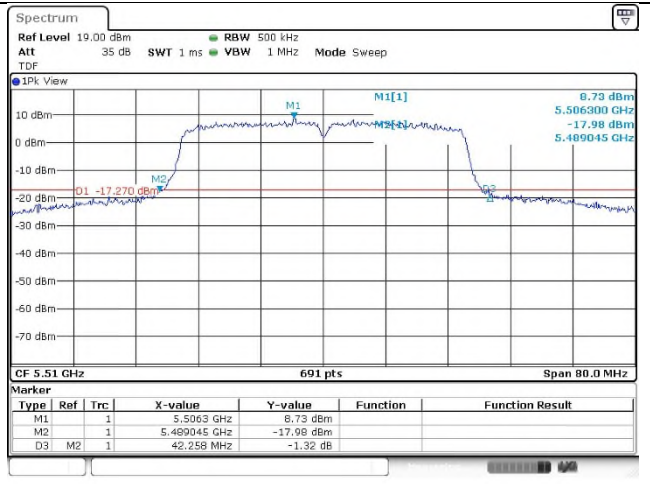
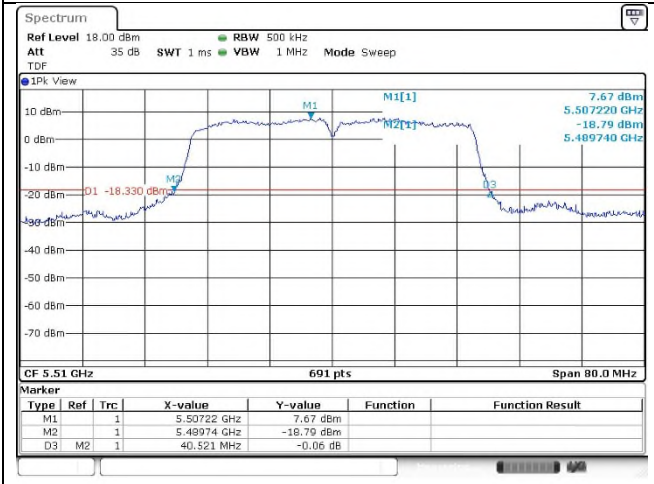


OFDM: 802.11n_HT40 (Band 2C)

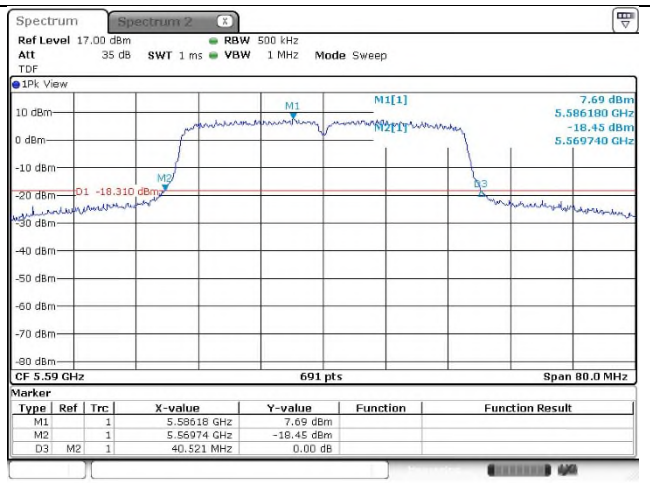
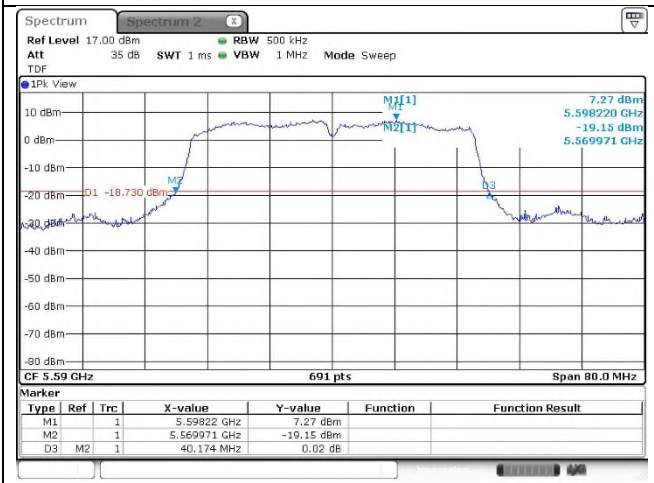
Ant.1

Ant.2

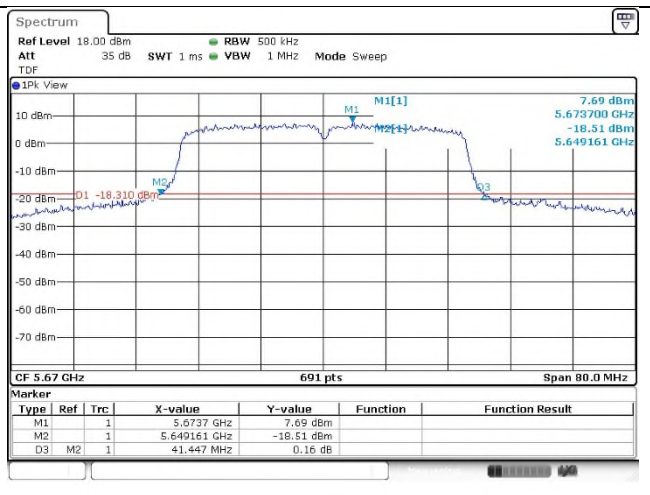
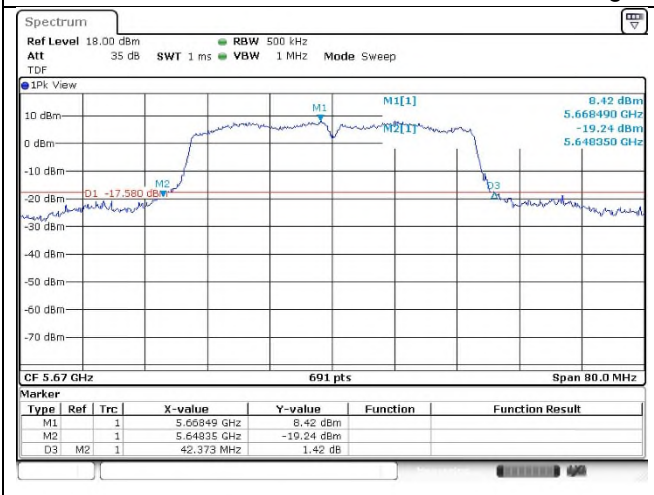
Low channel



Middle channel



High channel

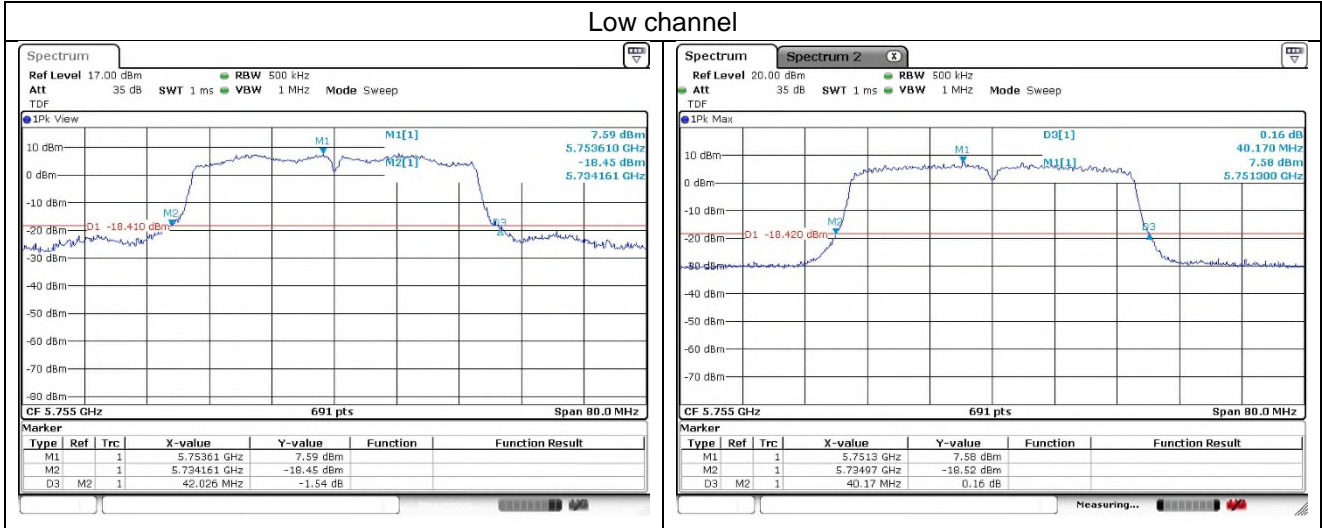


OFDM: 802.11n_HT40 (Band 3)

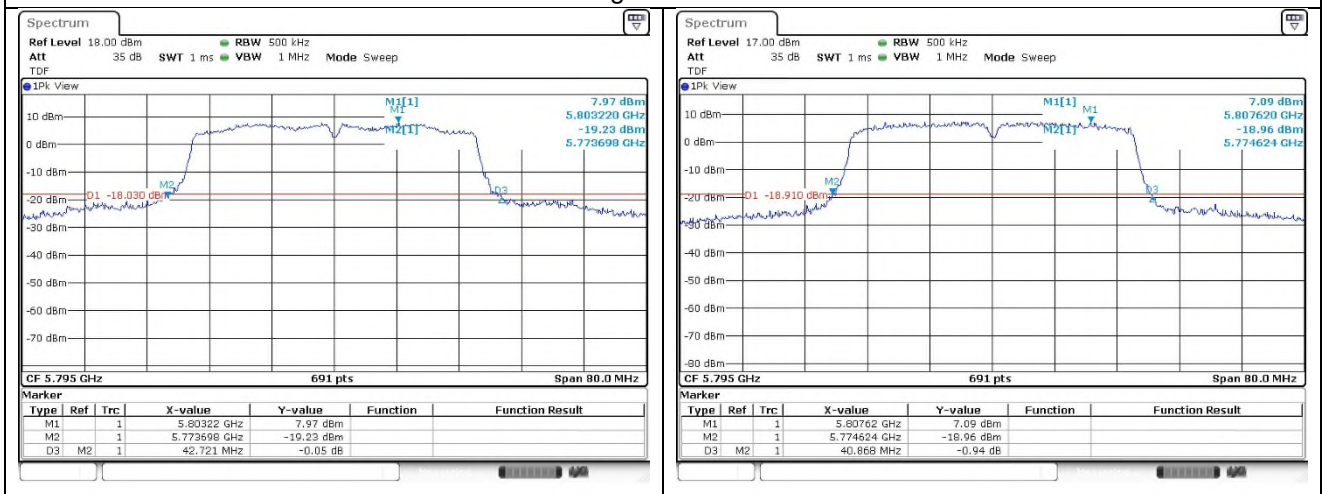
Ant.1

Ant.2

Low channel



High channel

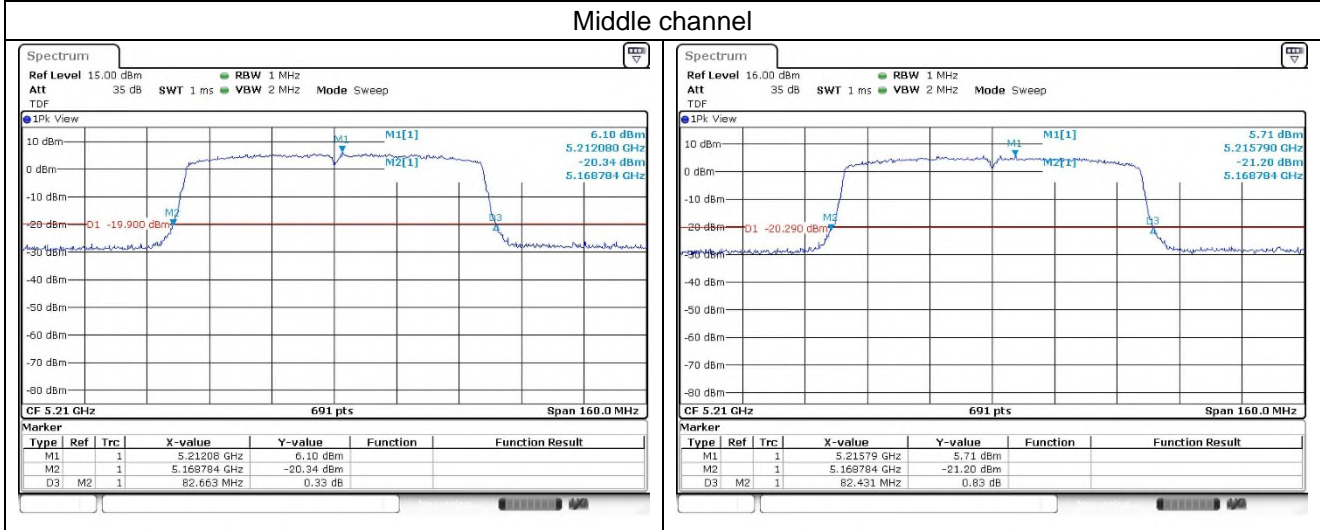


OFDM: 802.11ac_VHT80 (Band 1)

Ant.1

Ant.2

Middle channel

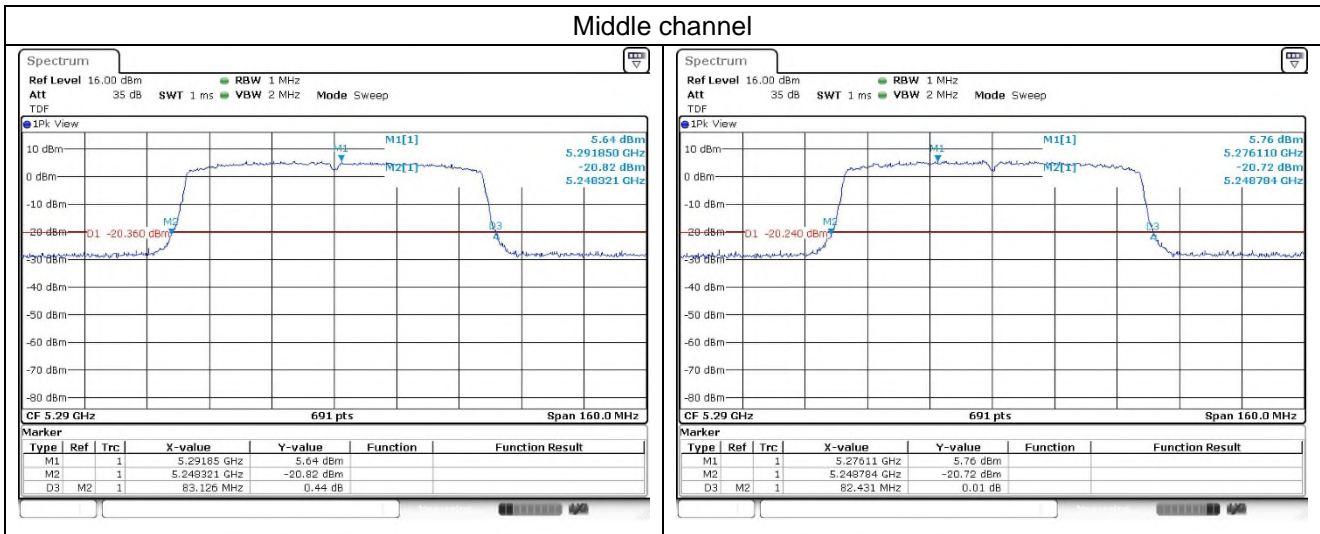


OFDM: 802.11ac_VHT80 (Band 2A)

Ant.1

Ant.2

Middle channel

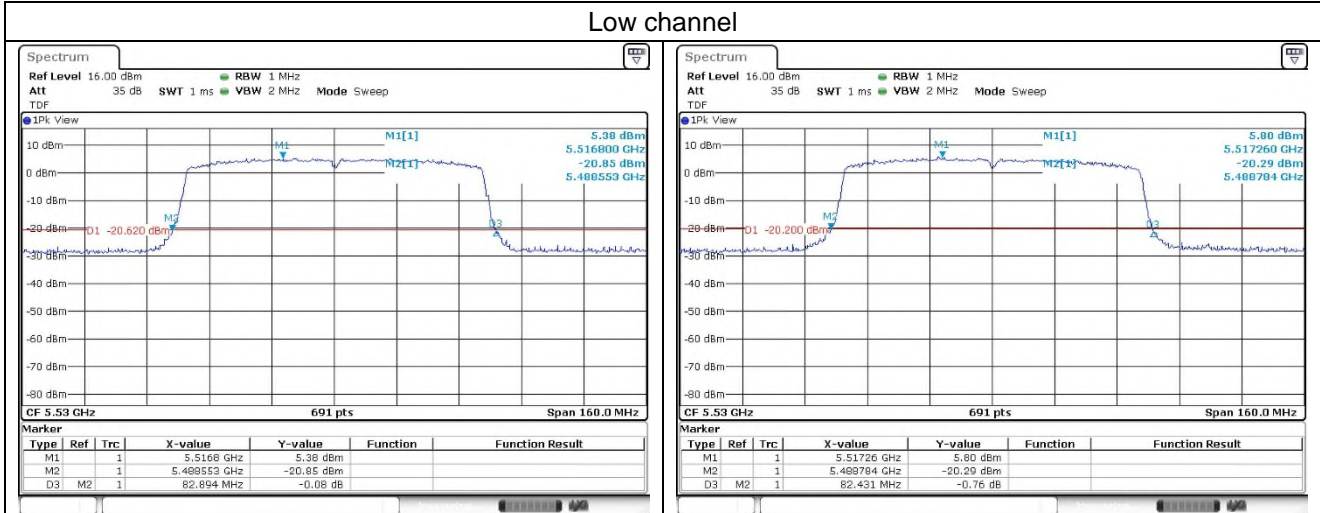


OFDM: 802.11ac_VHT80 (Band 2C)

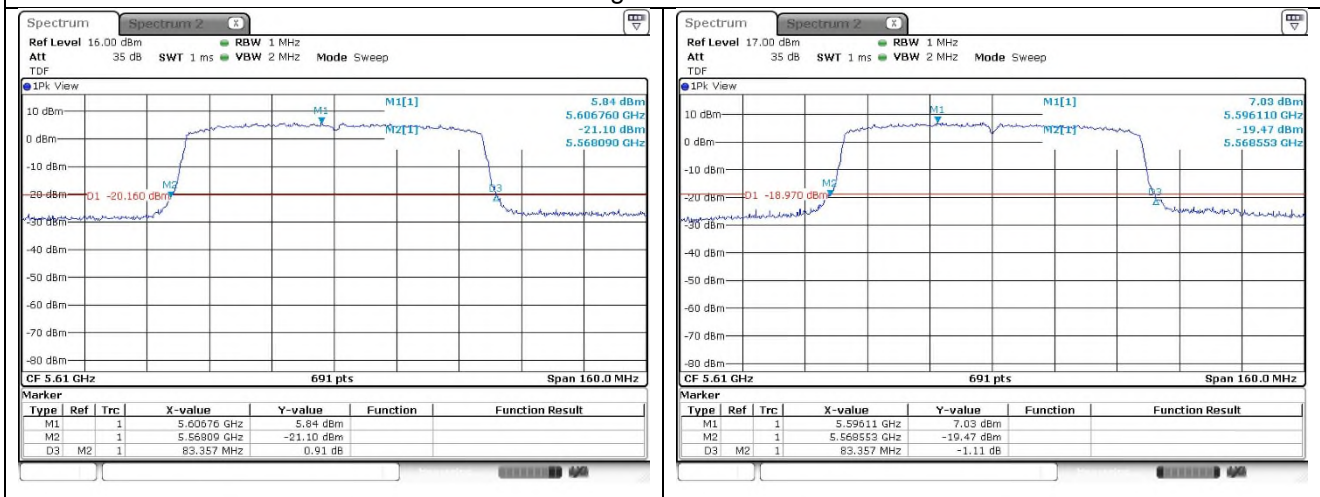
Ant.1

Ant.2

Low channel



High channel

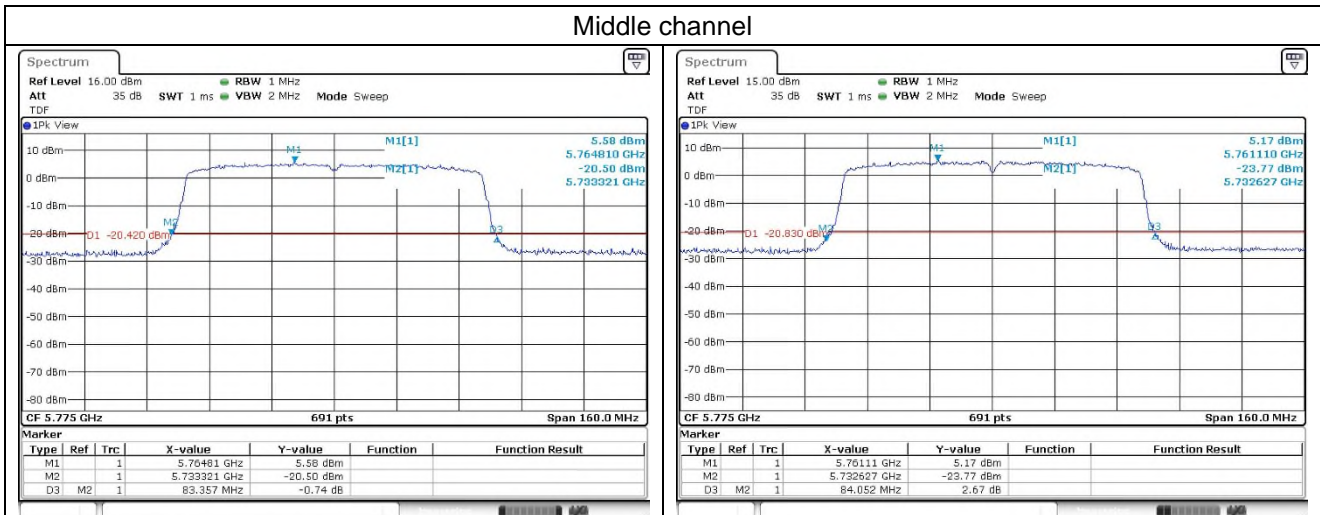


OFDM: 802.11ac_VHT80 (Band 3)

Ant.1

Ant.2

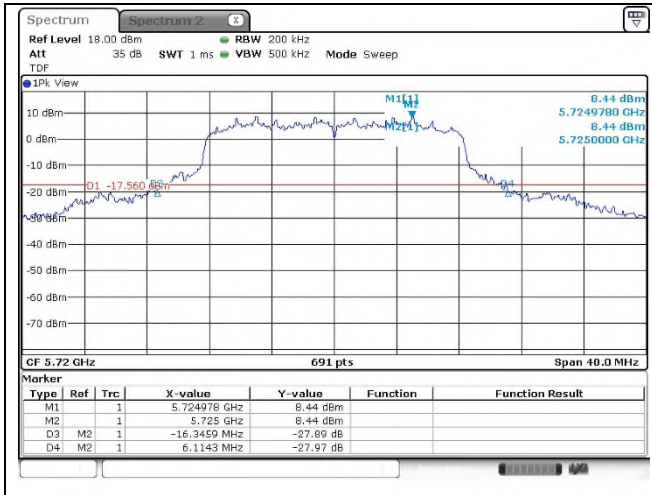
Middle channel



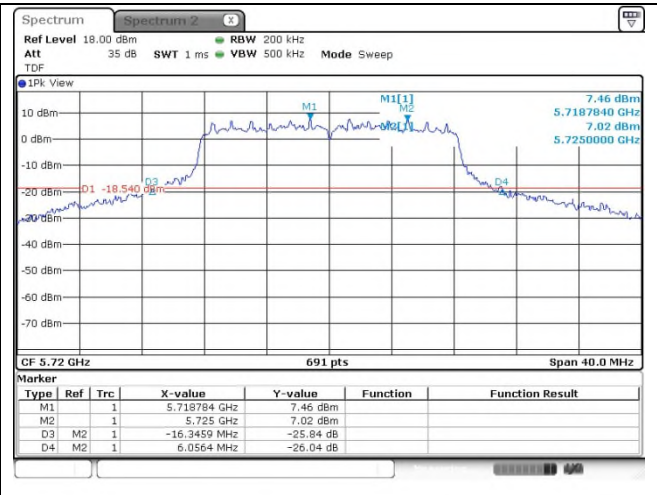
- Straddle channels

OFDM: 802.11a

Ant.1

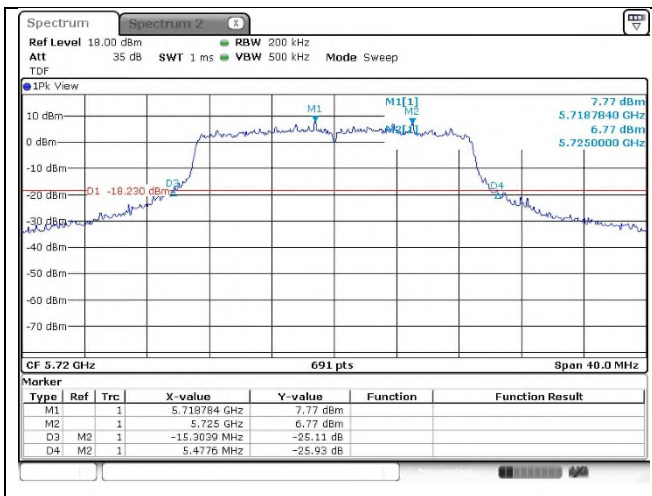


Ant.2

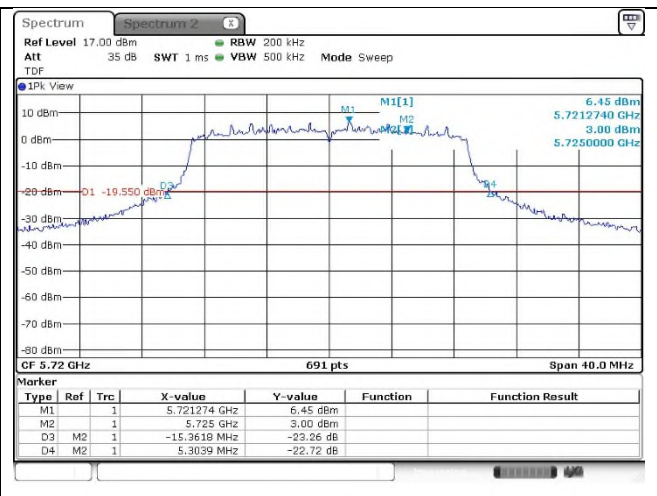


OFDM: 802.11ac_VHT20

Ant.1

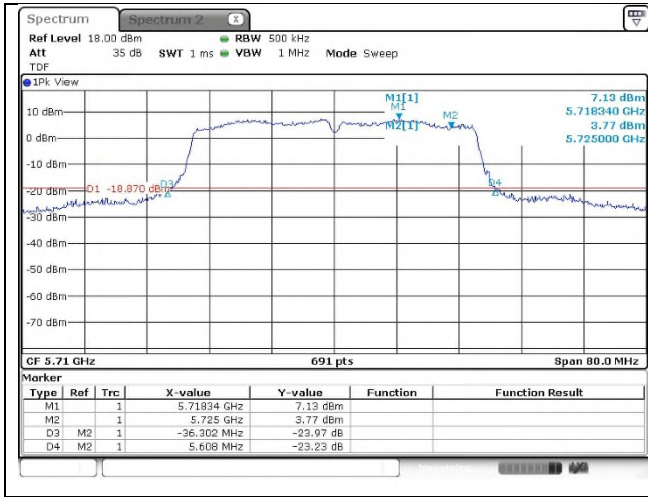


Ant.2

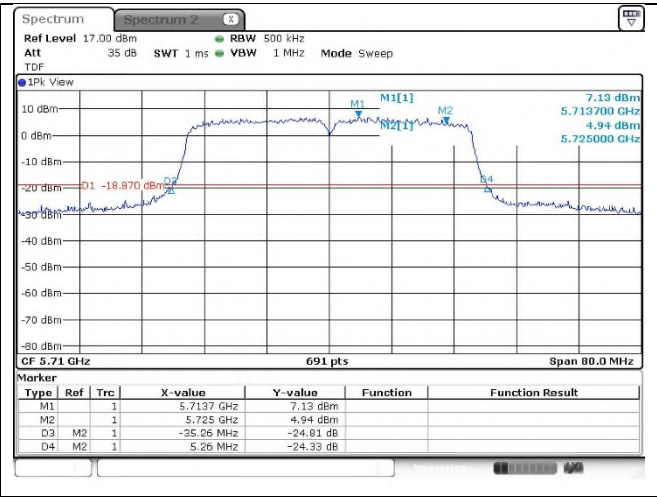


OFDM: 802.11n_HT40

Ant.1

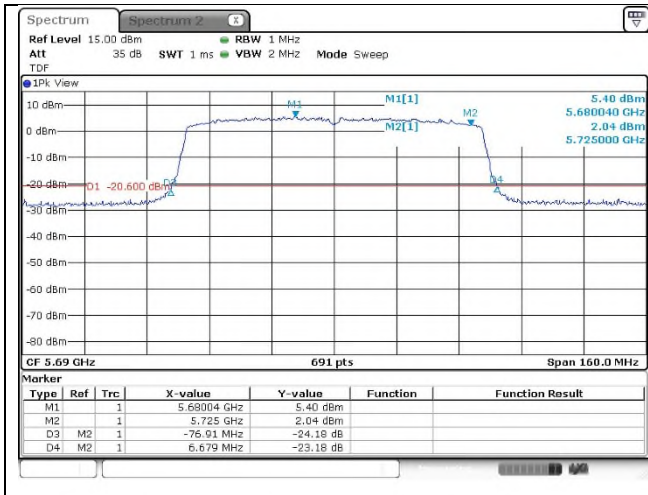


Ant.2

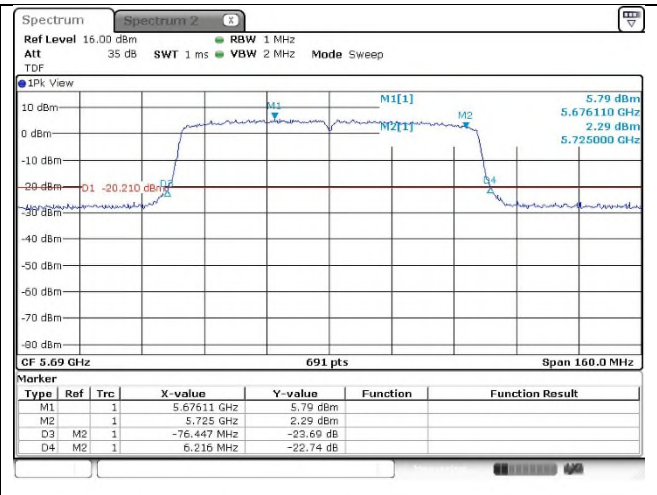


OFDM: 802.11ac_VHT80

Ant.1



Ant.2



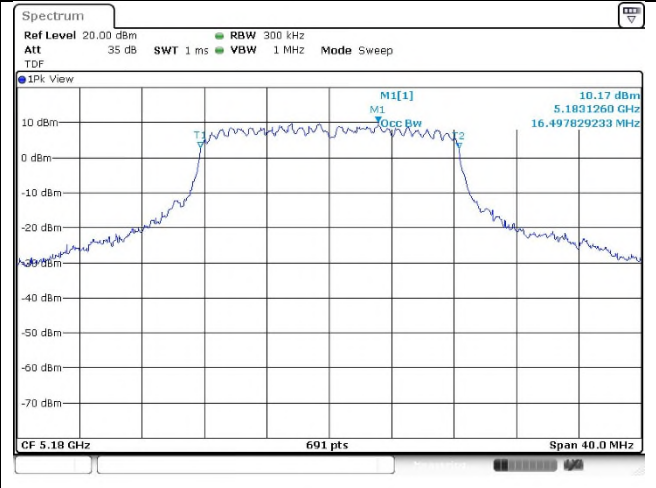
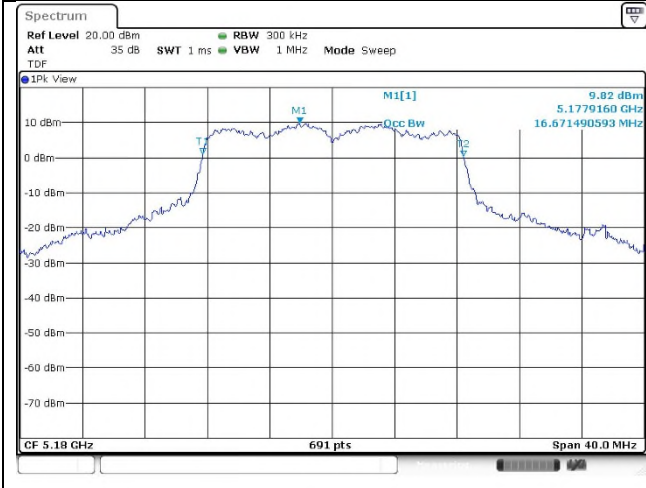
- 99 % Bandwidth

OFDM: 802.11a (Band 1)

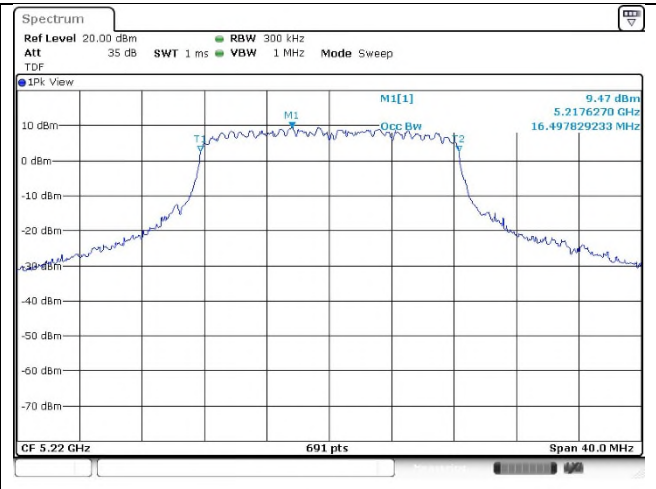
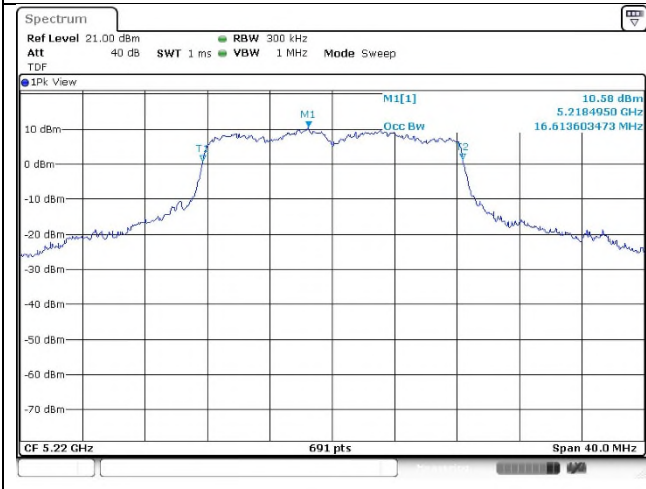
Ant.1

Ant.2

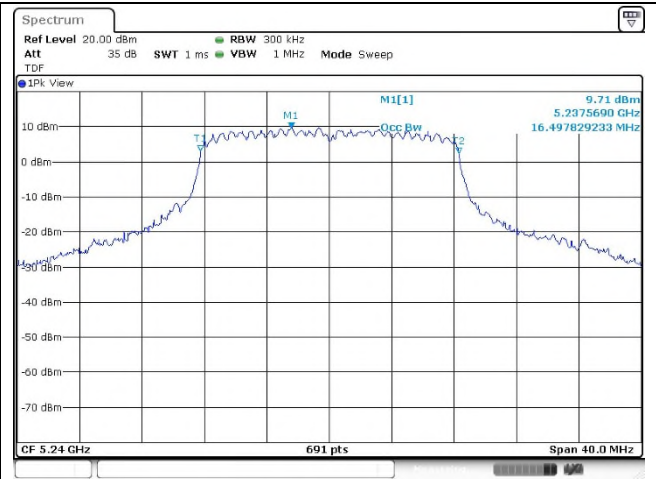
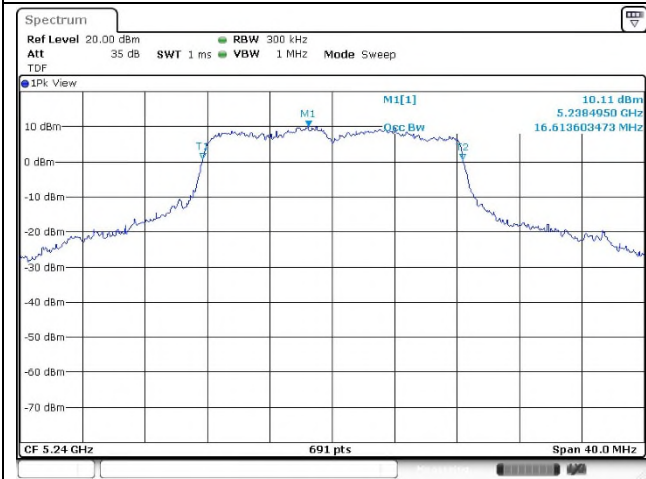
Low channel



Middle channel



High channel

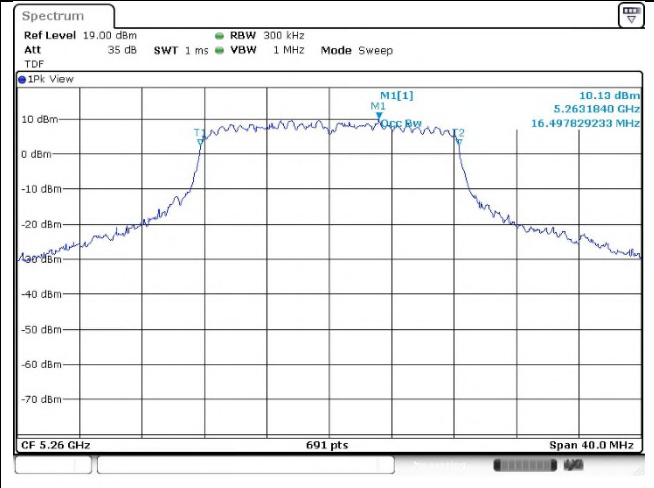
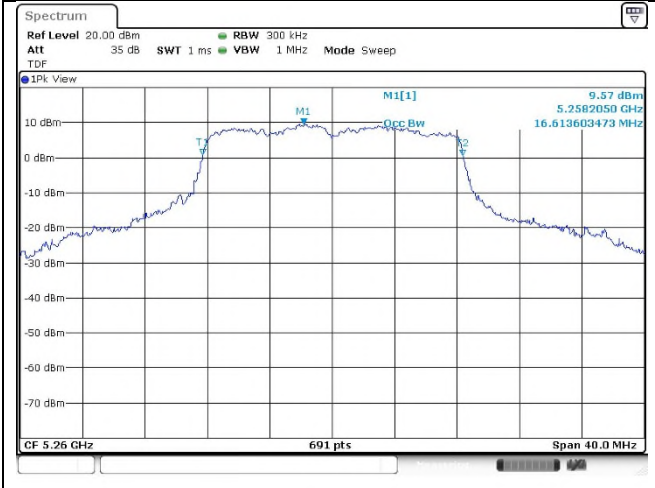


OFDM: 802.11a (Band 2A)

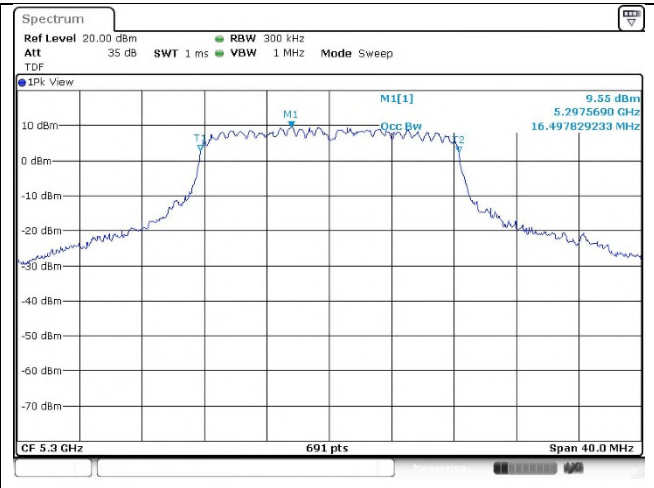
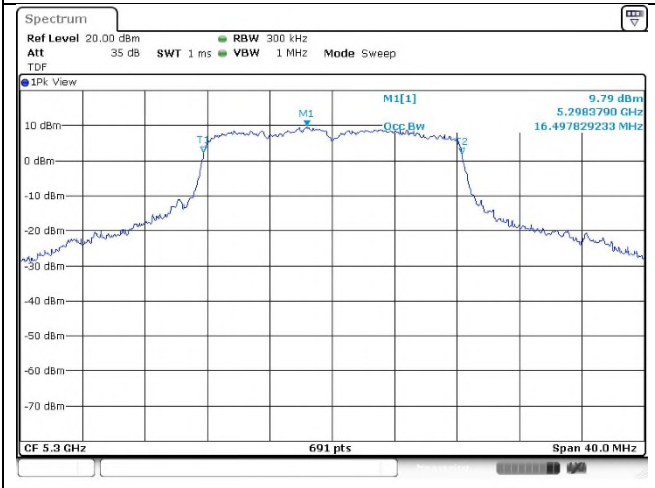
Ant.1

Ant.2

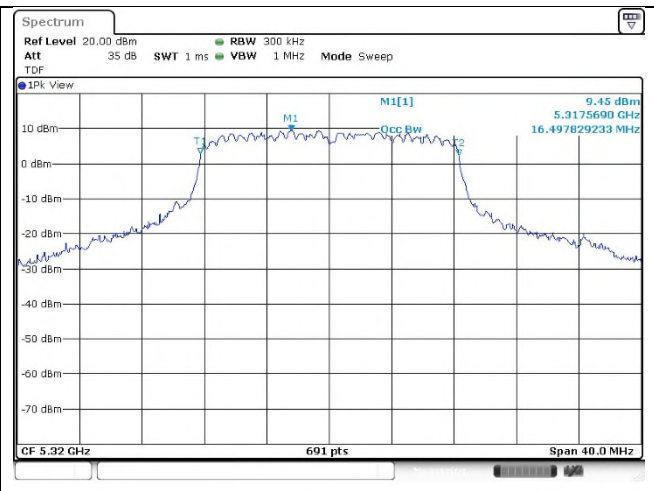
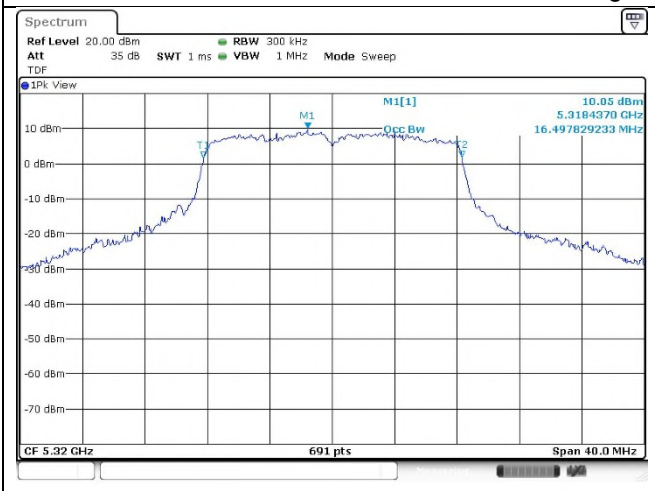
Low channel



Middle channel



High channel

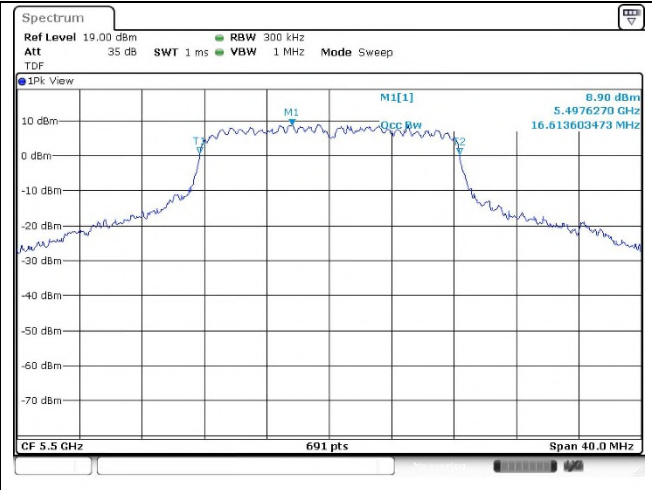
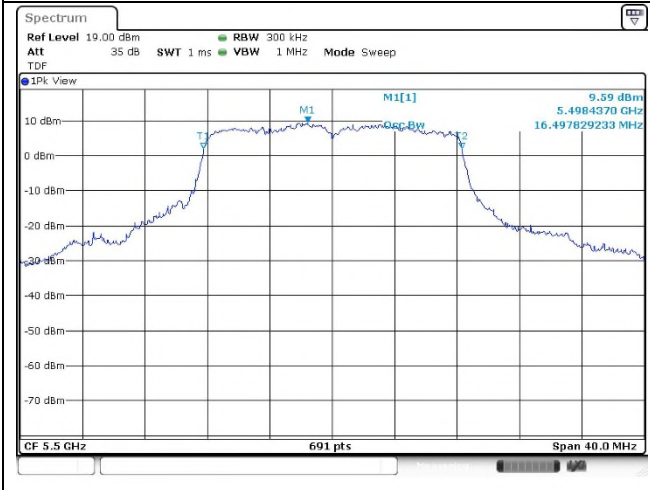


OFDM: 802.11a (Band 2C)

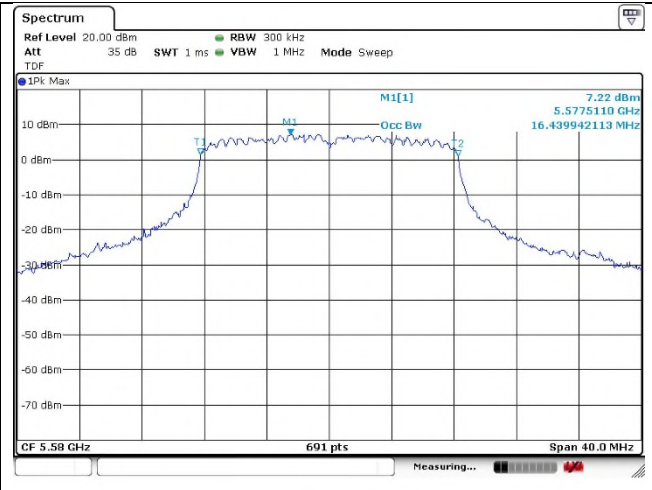
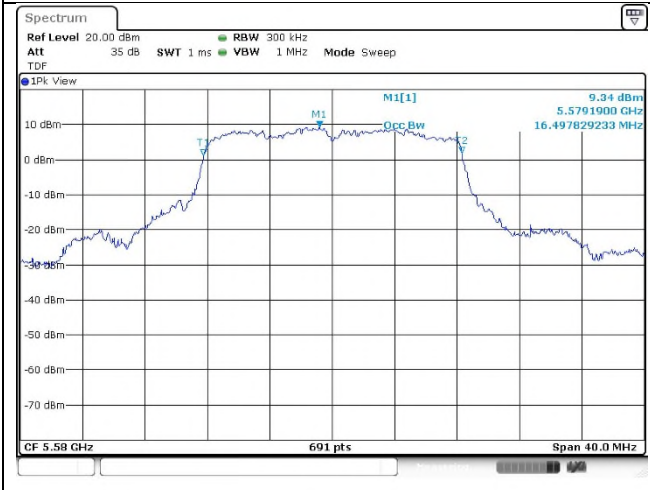
Ant.1

Ant.2

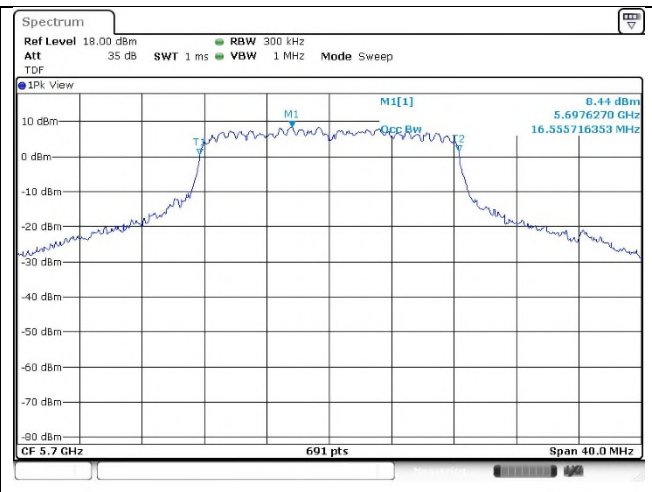
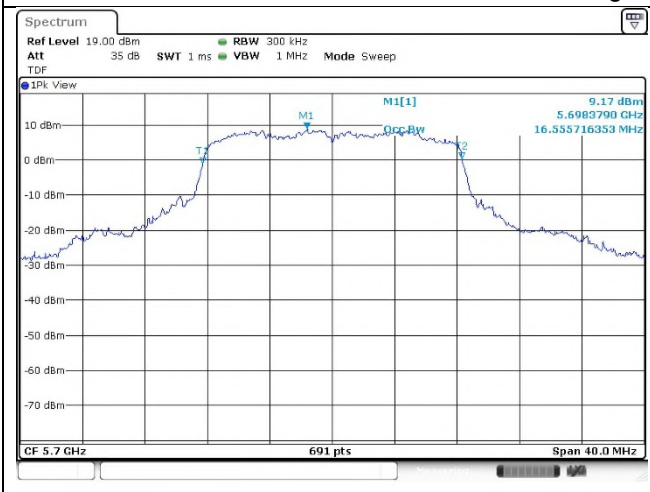
Low channel



Middle channel



High channel

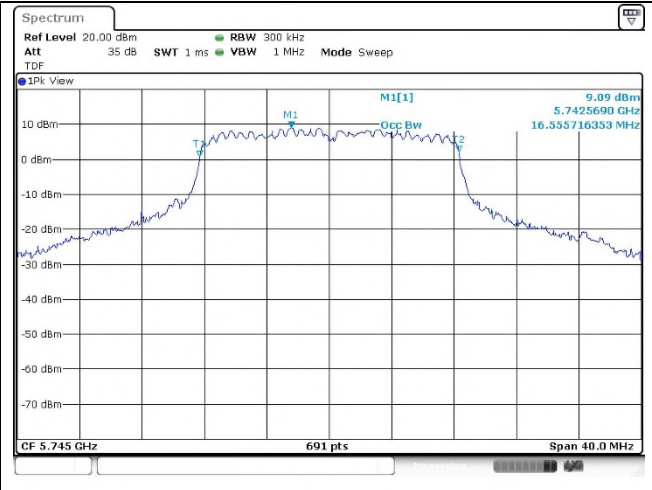
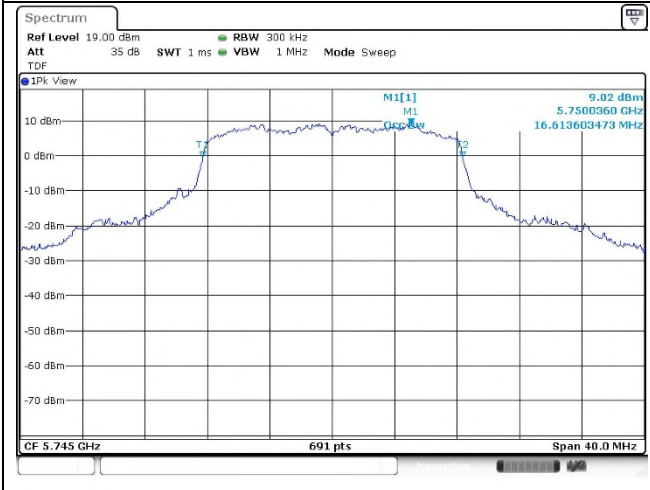


OFDM: 802.11a (Band 3)

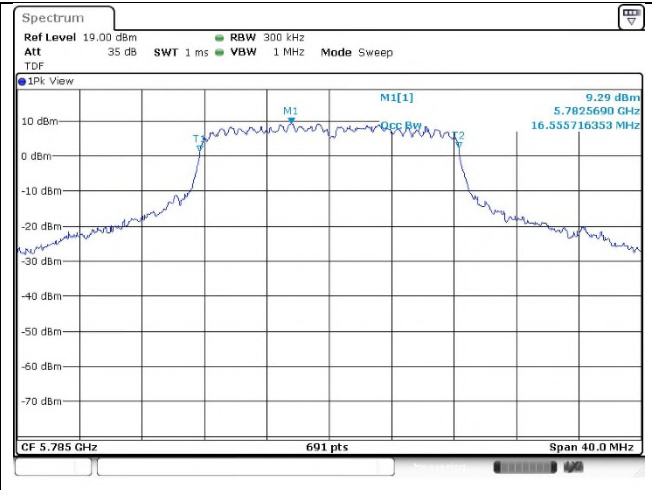
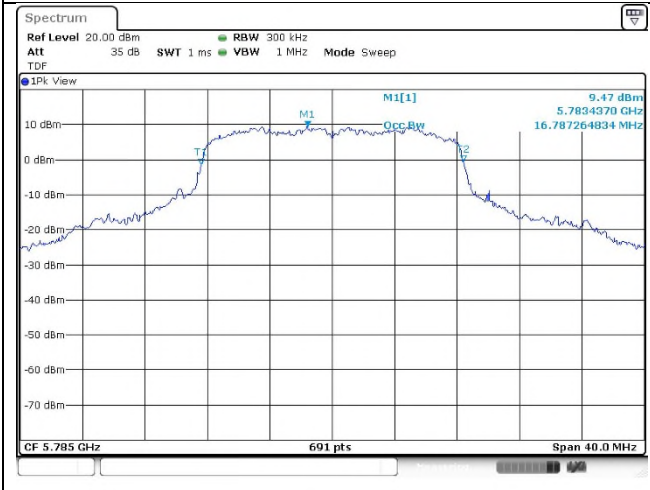
Ant.1

Ant.2

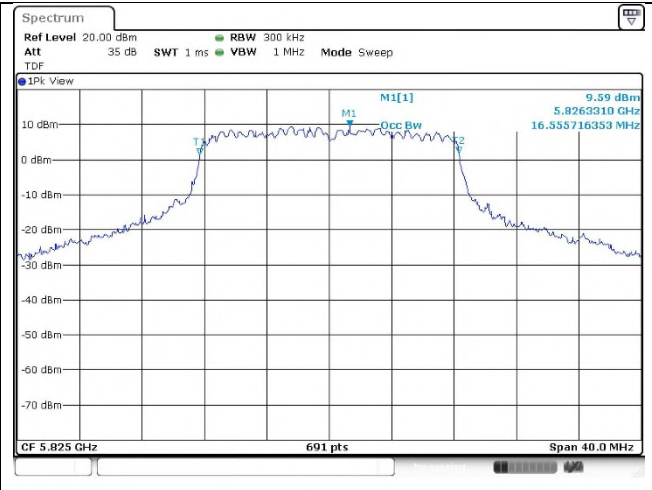
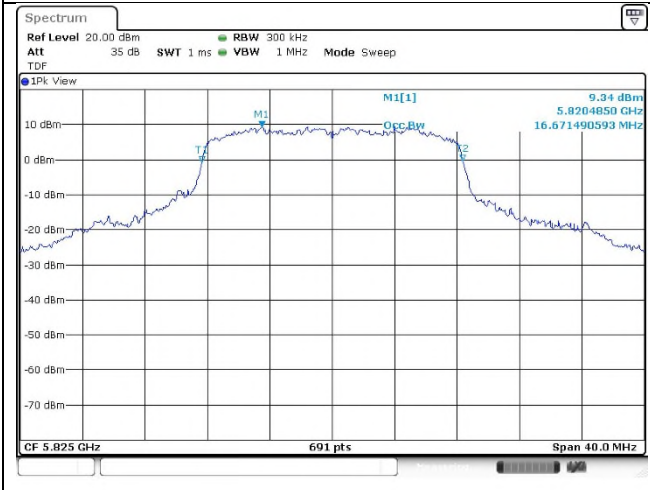
Low channel



Middle channel



High channel

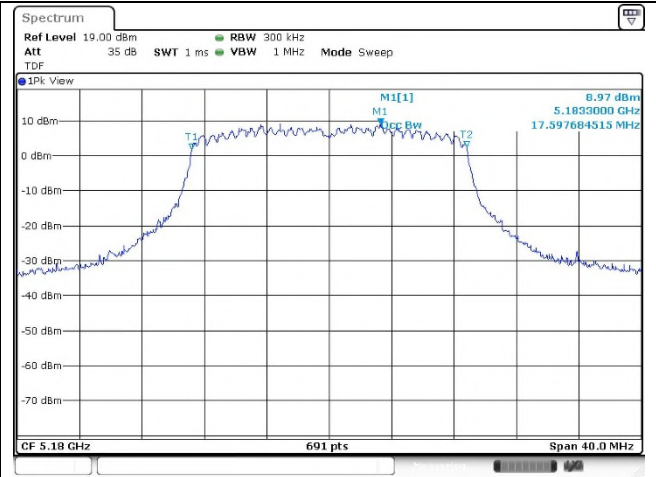
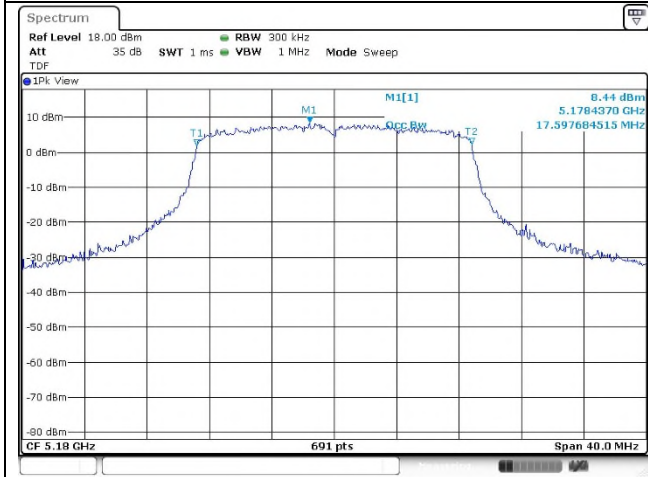


OFDM: 802.11ac_VHT20 (Band 1)

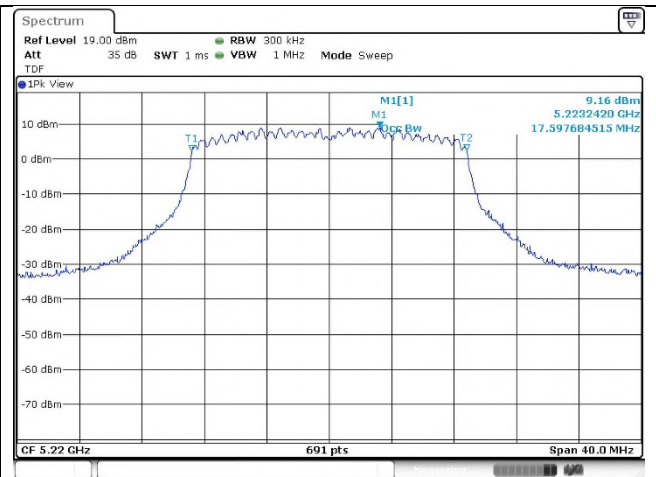
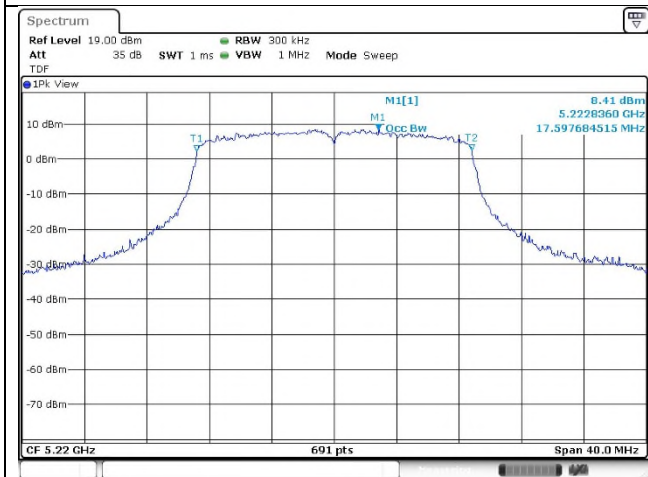
Ant.1

Ant.2

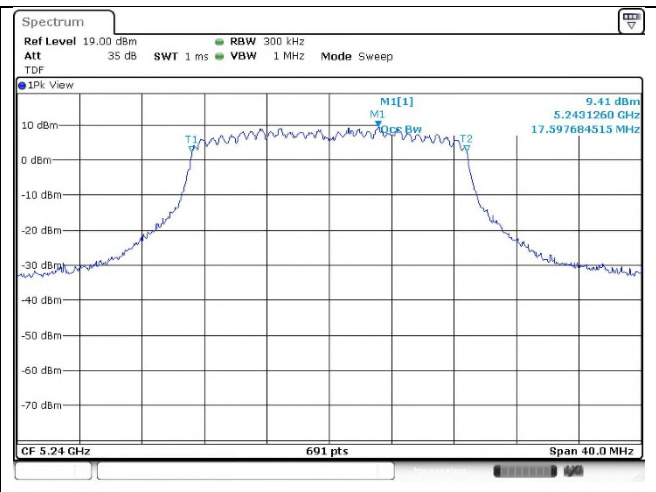
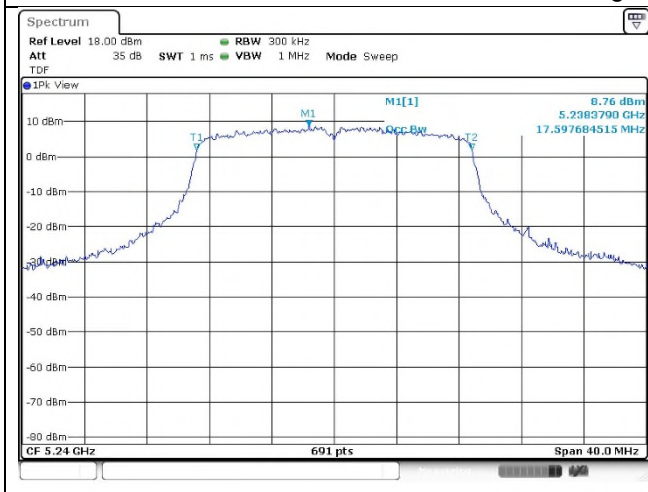
Low channel



Middle channel



High channel

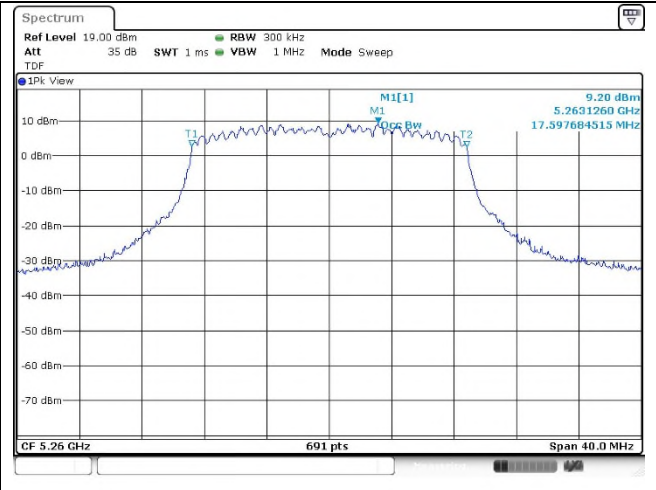
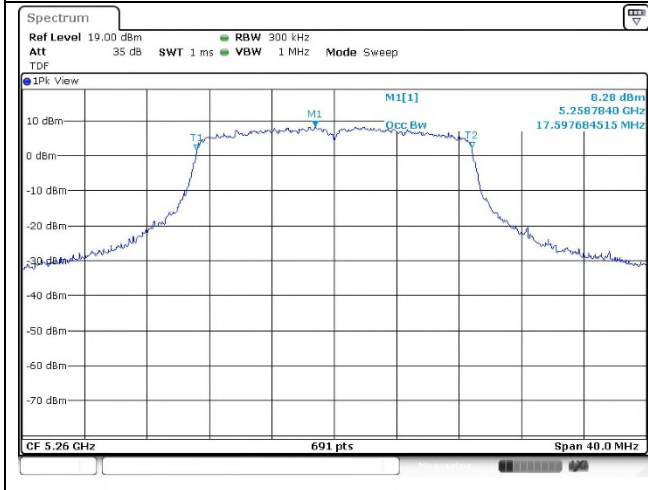


OFDM: 802.11ac_VHT20 (Band 2A)

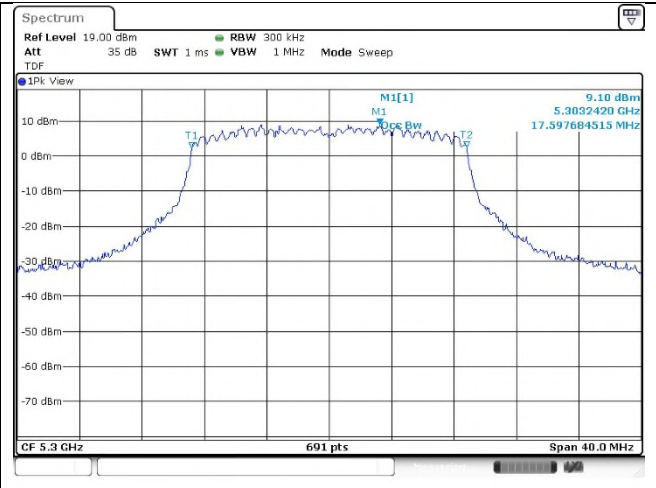
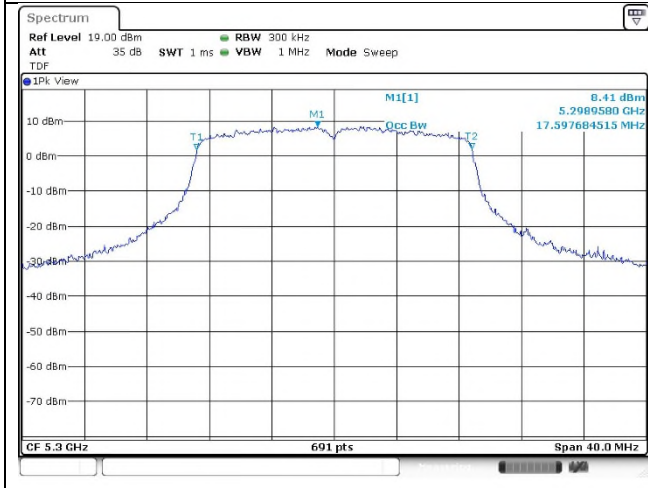
Ant.1

Ant.2

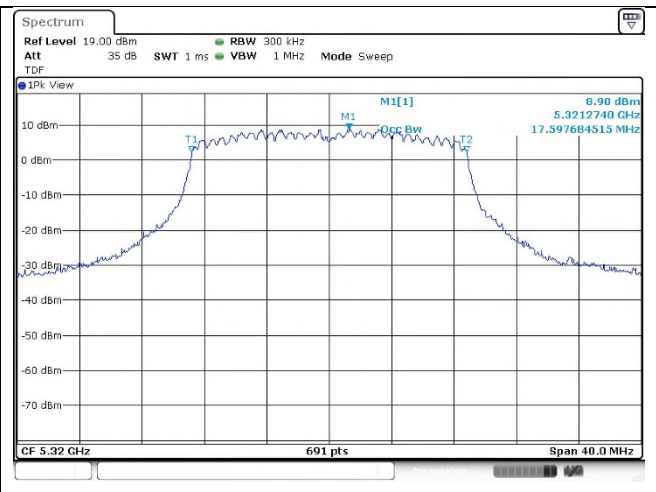
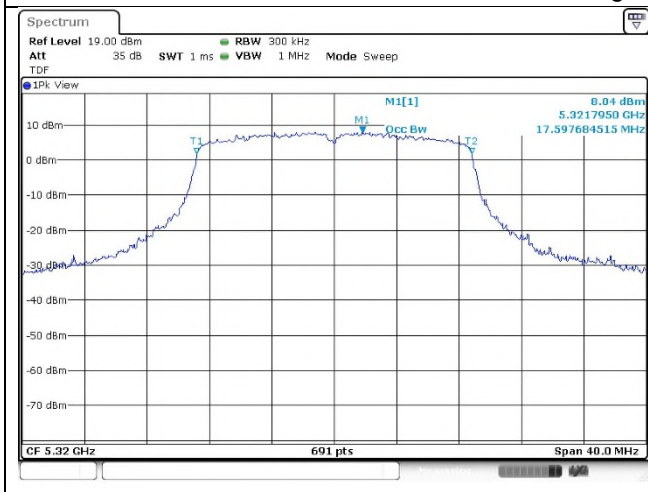
Low channel



Middle channel



High channel

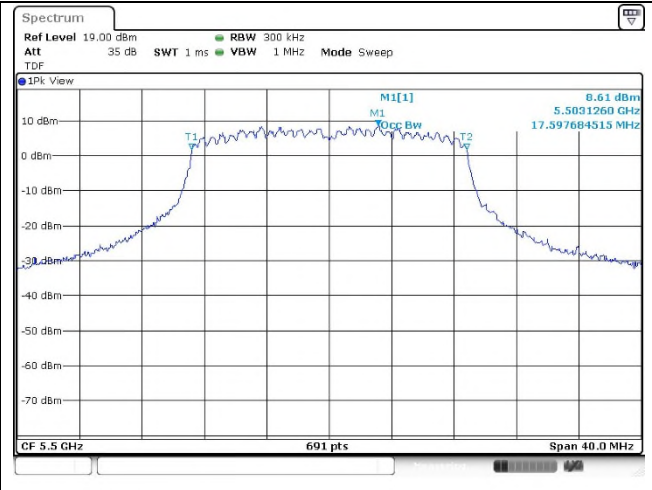
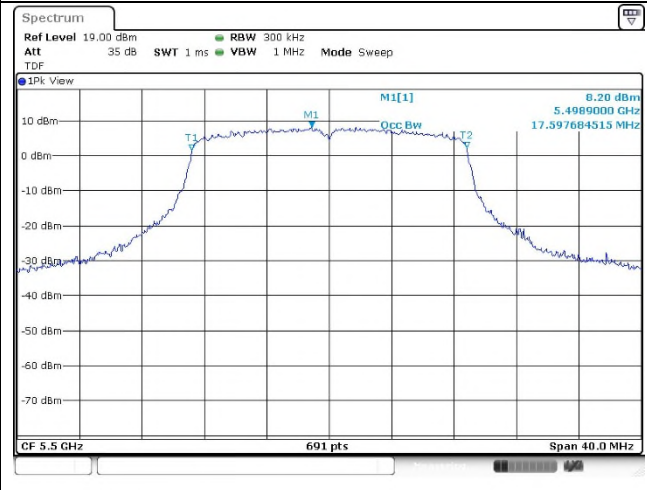


OFDM: 802.11ac_VHT20 (Band 2C)

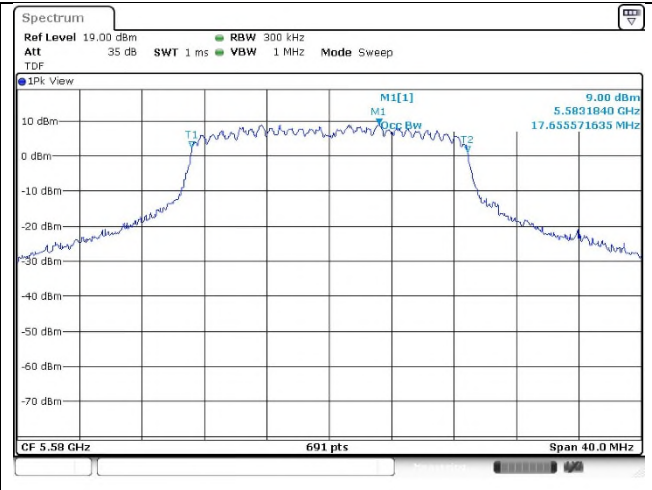
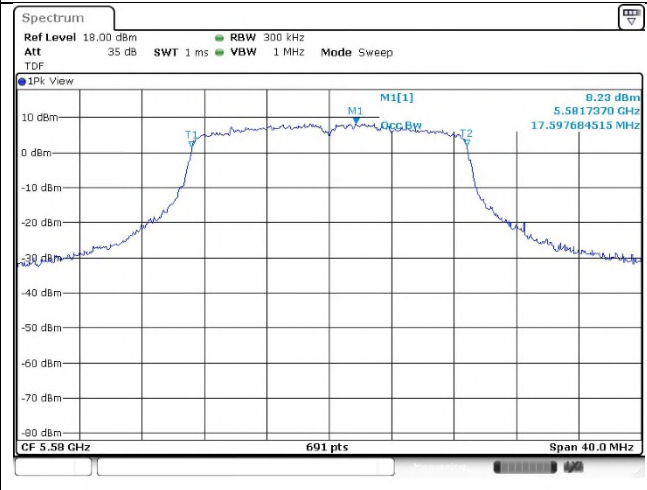
Ant.1

Ant.2

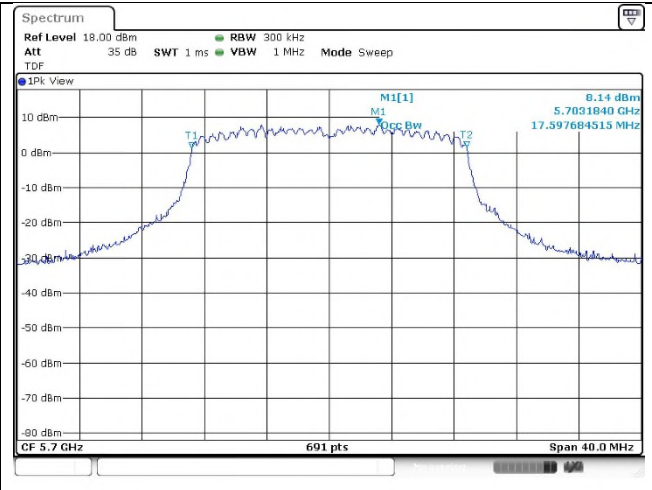
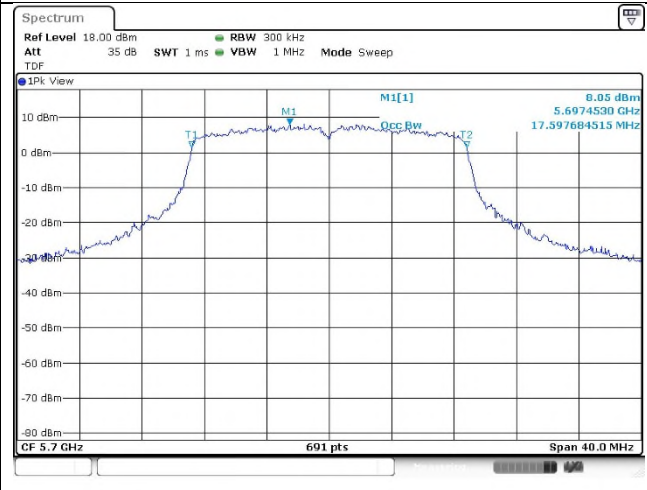
Low channel



Middle channel



High channel

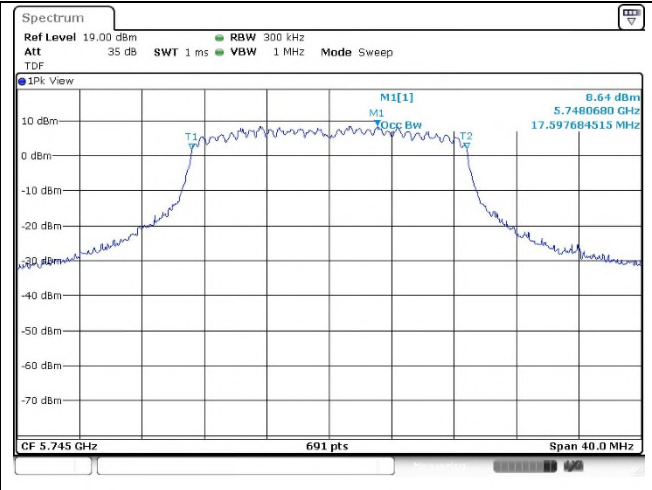
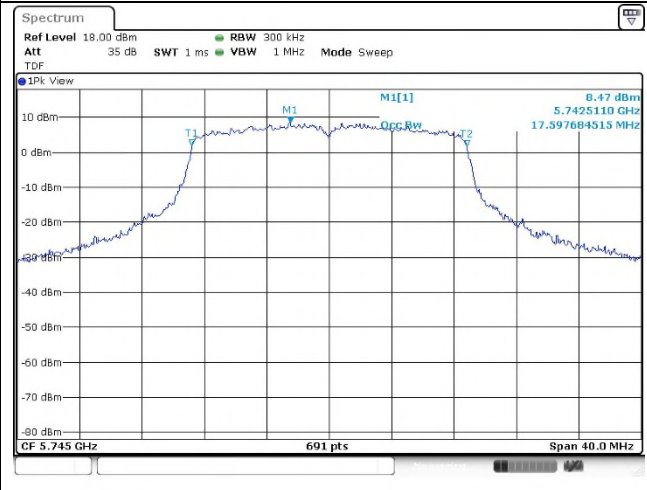


OFDM: 802.11ac_VHT20 (Band 3)

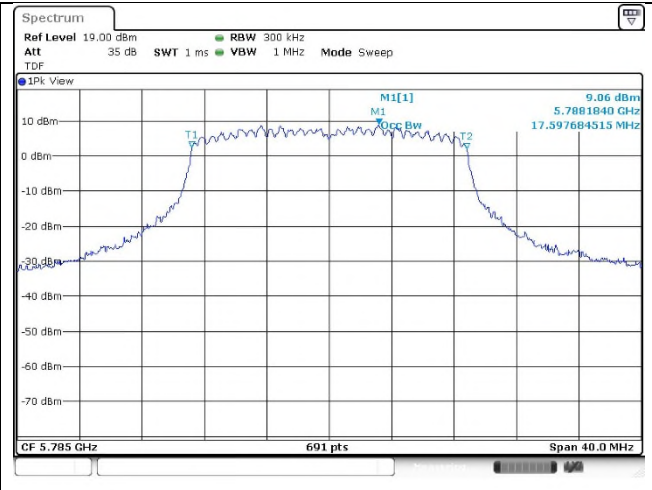
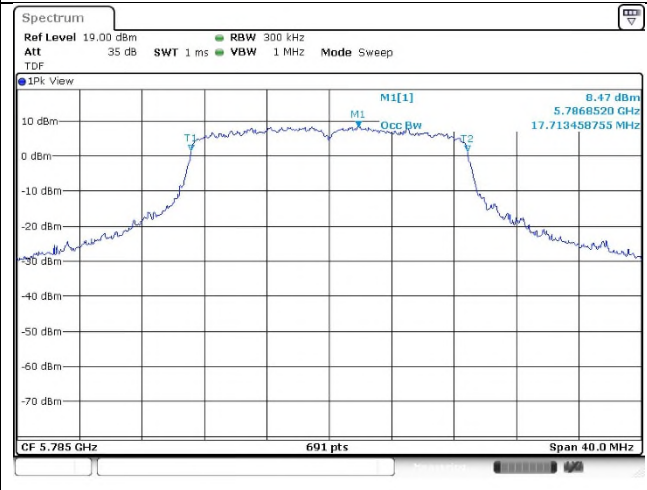
Ant.1

Ant.2

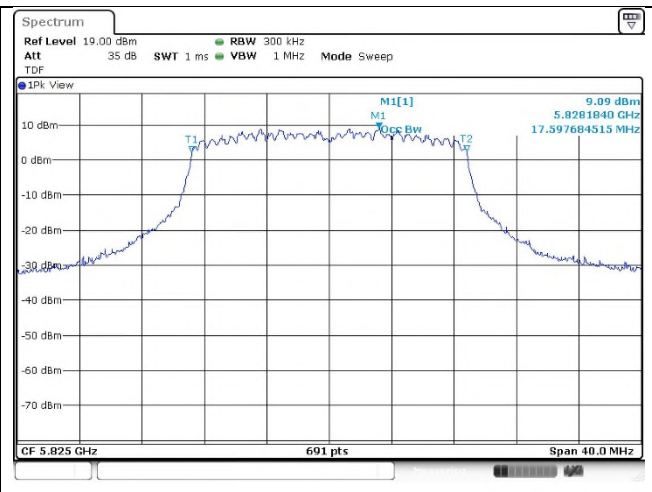
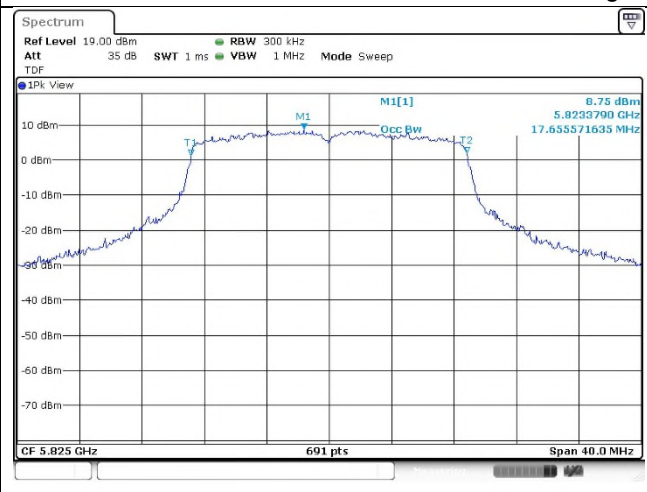
Low channel



Middle channel



High channel

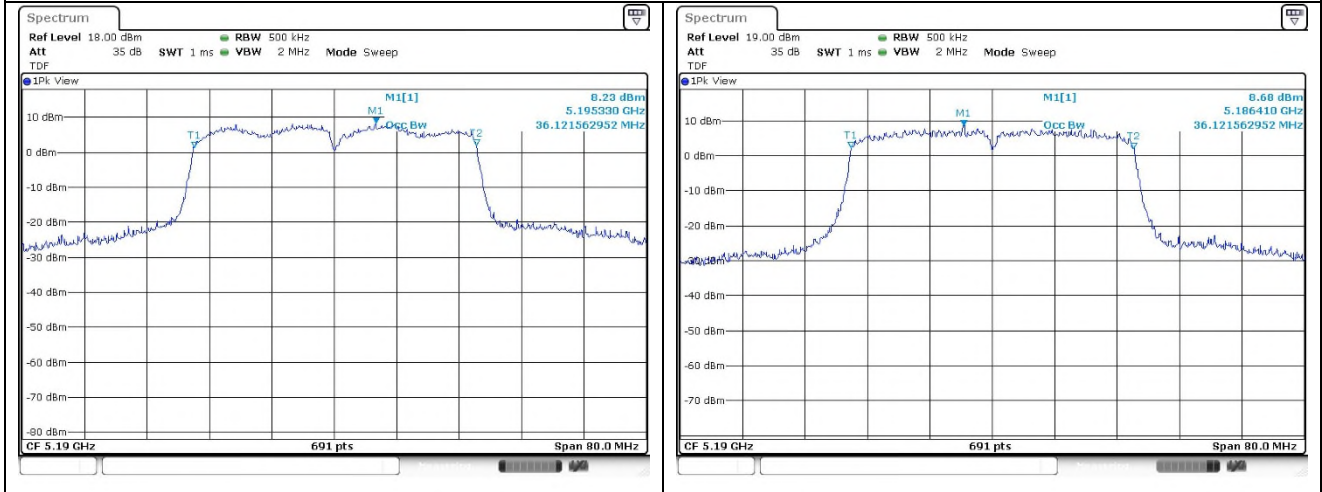


OFDM: 802.11n_HT40 (Band 1)

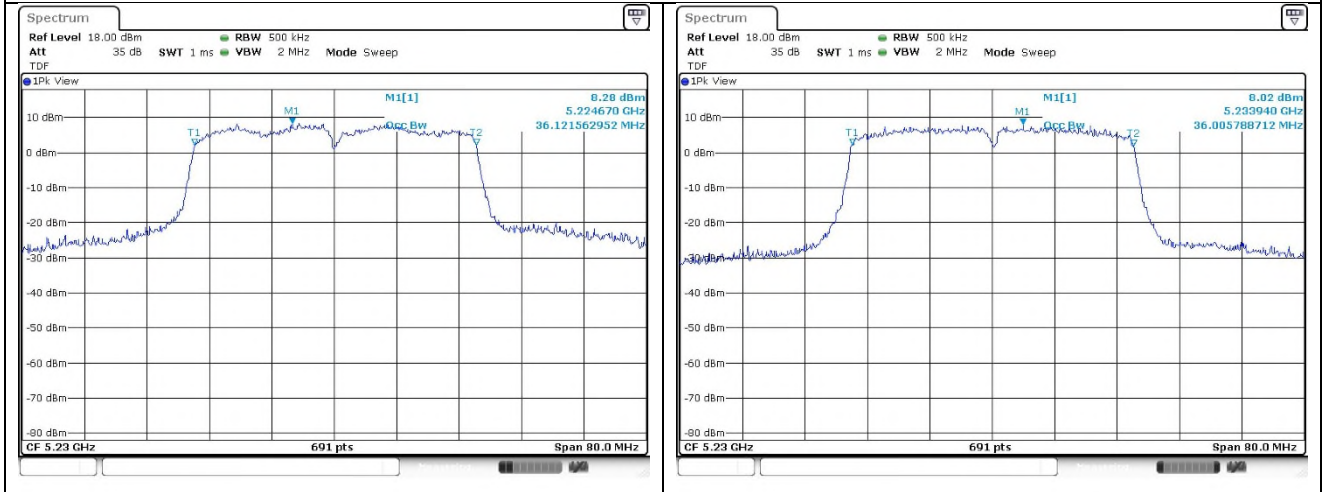
Ant.1

Ant.2

Low channel



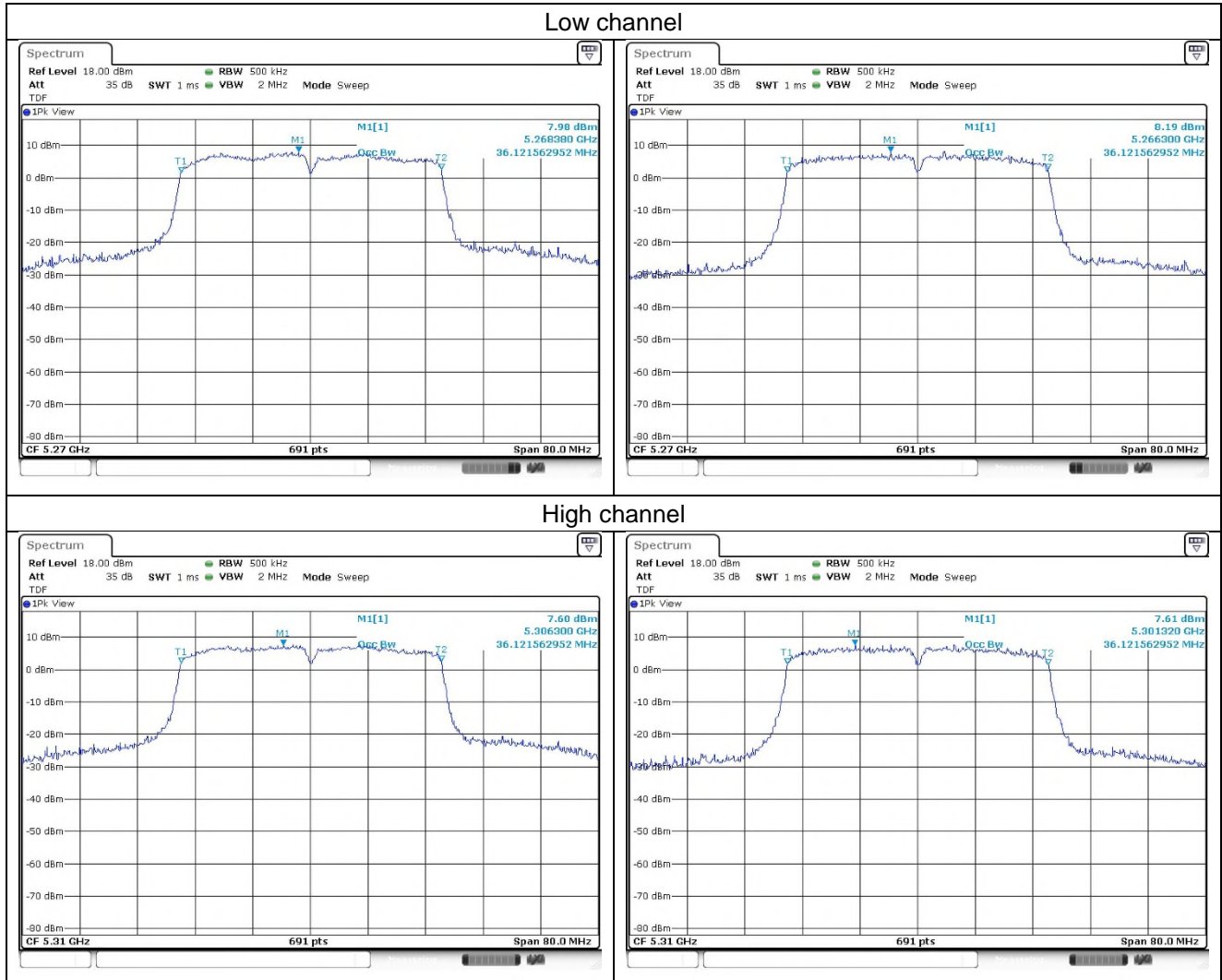
High channel



OFDM: 802.11n_HT40 (Band 2A)

Ant.1

Ant.2

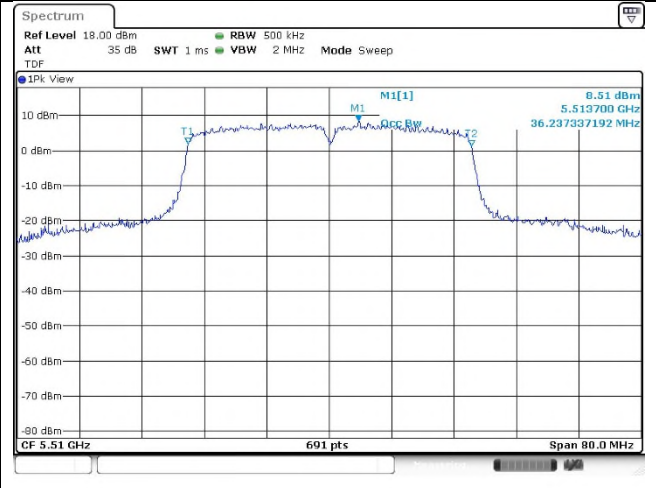
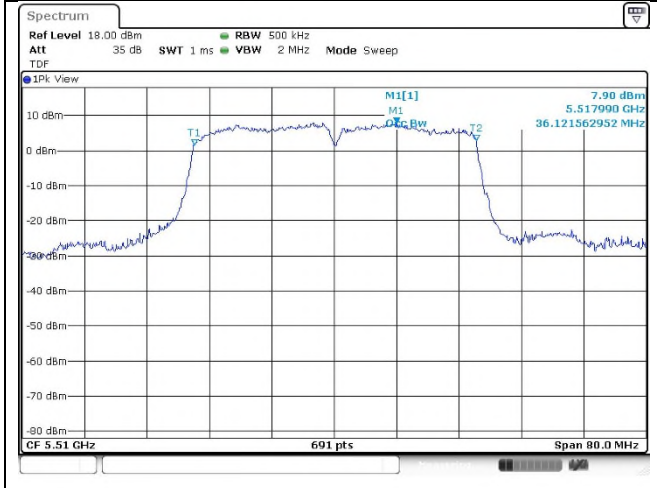


OFDM: 802.11n_HT40 (Band 2C)

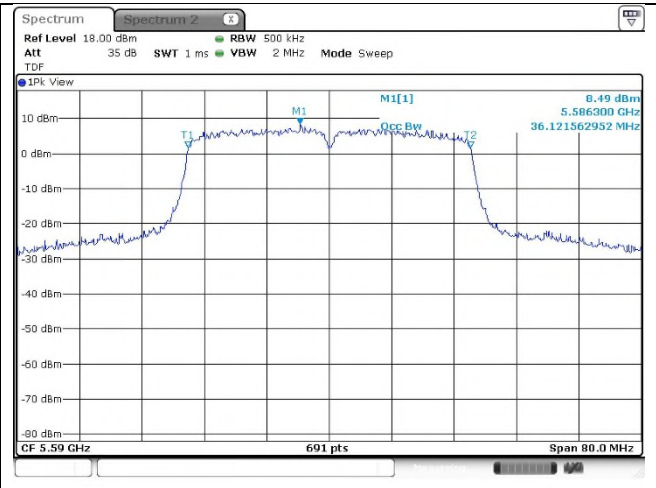
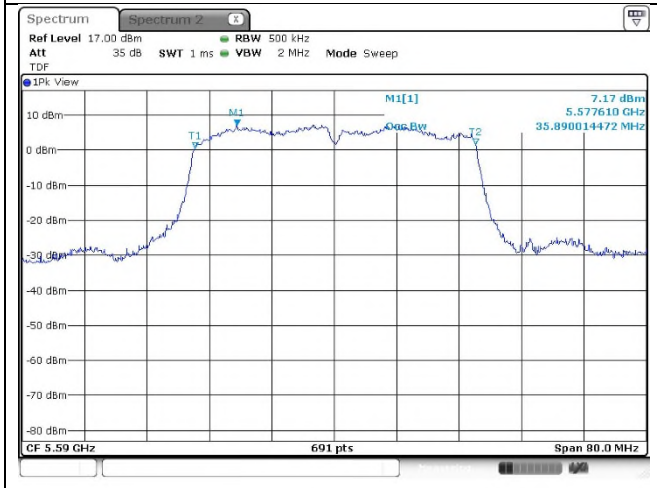
Ant.1

Ant.2

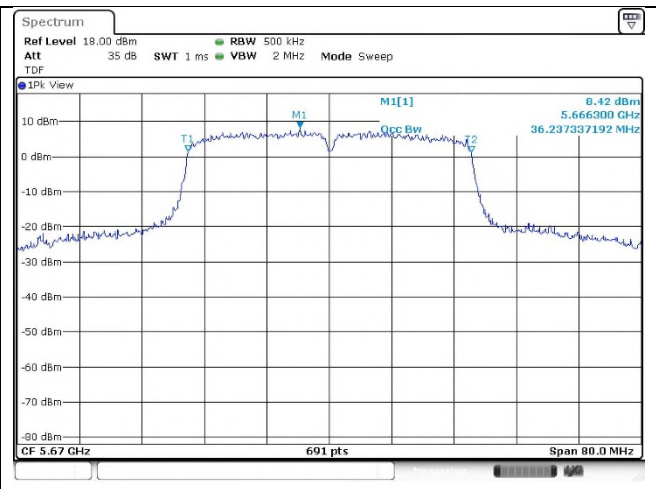
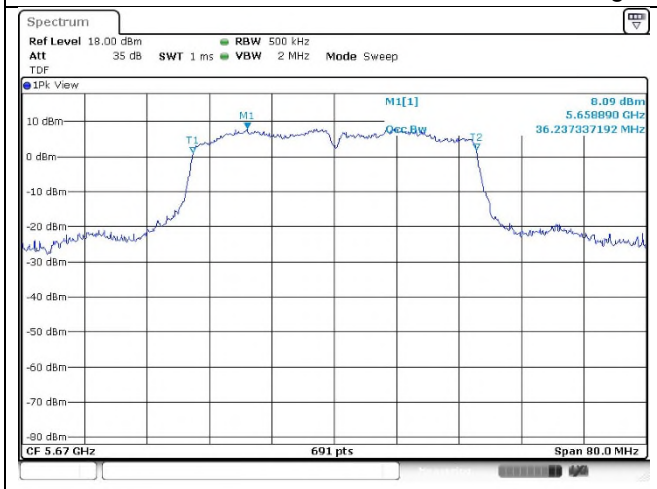
Low channel



Middle channel



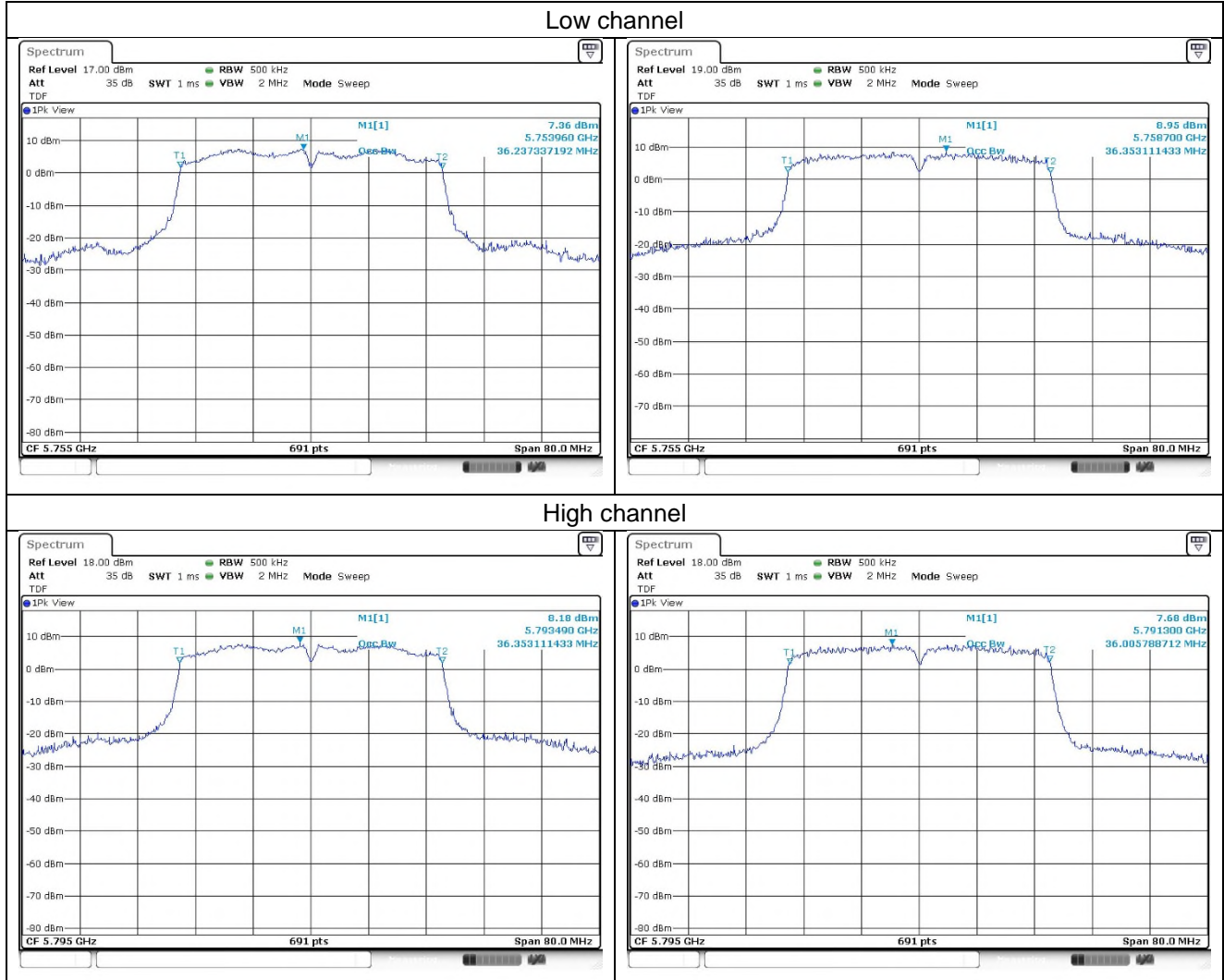
High channel



OFDM: 802.11n_HT40 (Band 3)

Ant.1

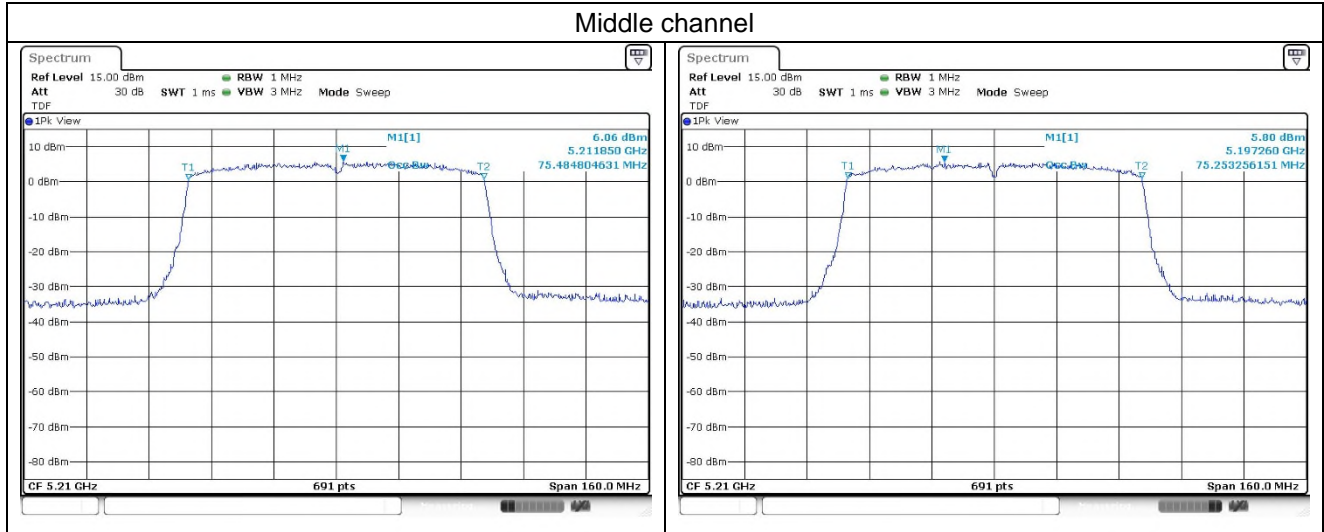
Ant.2



OFDM: 802.11ac_VHT80 (Band 1)

Ant.1

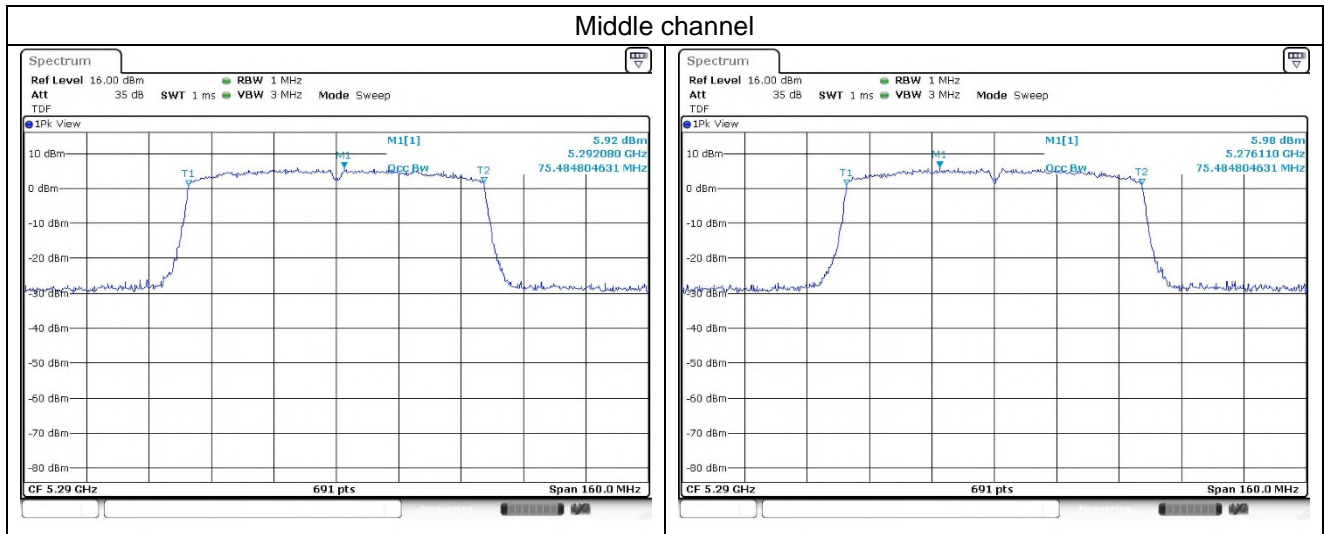
Ant.2



OFDM: 802.11ac_VHT80 (Band 2A)

Ant.1

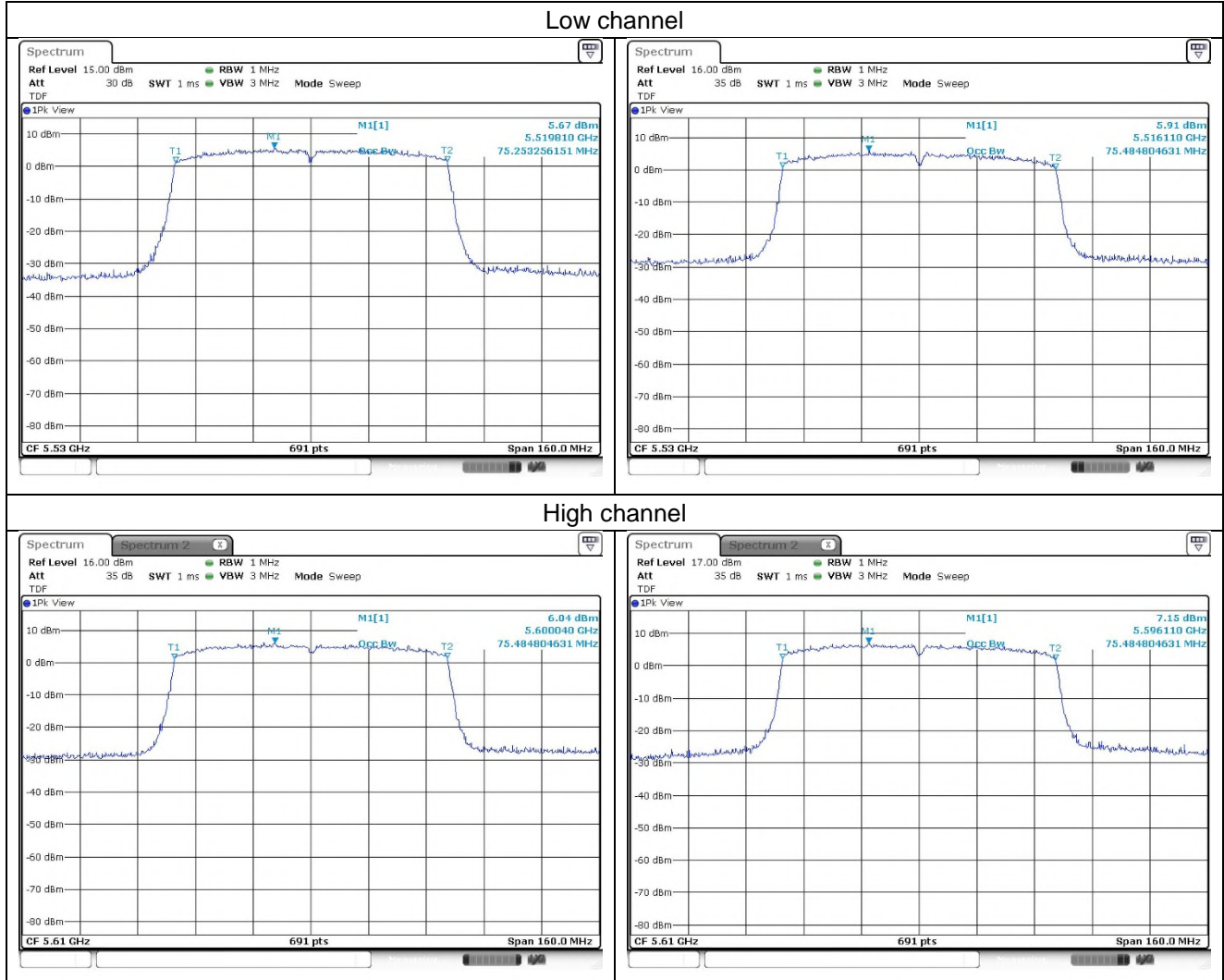
Ant.2



OFDM: 802.11ac_VHT80 (Band 2C)

Ant.1

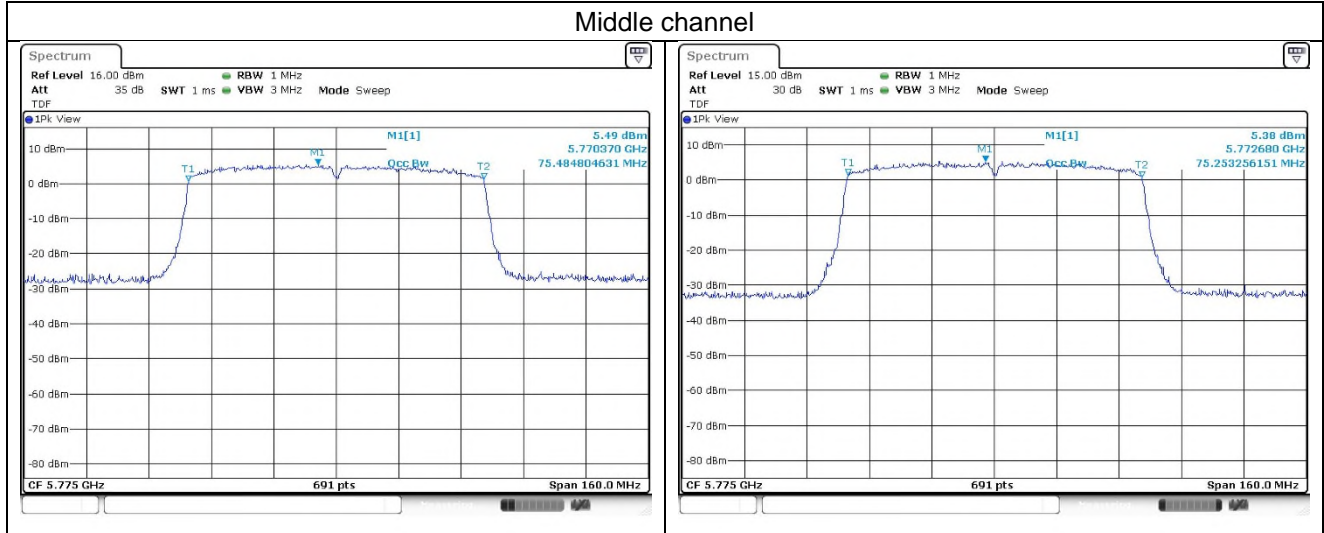
Ant.2



OFDM: 802.11ac_VHT80 (Band 3)

Ant.1

Ant.2



4. 6 dB Bandwidth

4.1. Test Setup



4.2. Limit

4.2.1. FCC

According to §15.407(e), within the 5.725-5.85 GHz band, the minimum 6 dB bandwidth of U-NII devices shall be at least 500 kHz.

4.2.2. IC

According to RSS-247 Issue 2, 6.2.4.1, the minimum -6 dB Bandwidth shall be at least 500 kHz.

4.3. Test Procedure

All data rates and modes were investigated for this test. The full data for the worst case data rate are reported in this section.

1. This measurement settings are specified in section II.C.2 of KDB 789033 D02 General UNII Test Procedures New Rules v02r01.
2. Set RBW = 100 kHz.
3. Set the video bandwidth (VBW) $\geq 3 \times$ RBW.
4. Detector = Peak.
5. Trace mode = max hold.
6. Sweep = auto couple.
7. Allow the trace to stabilize.
8. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

Remark;

In case of band crossing channels 138, 142 and 144, the measurement is complied with section III.A of KDB 789033 D02 General UNII Test Procedures New Rules v02r01.

4.4. Test Result

Ambient temperature : (23 ± 1) °C
 Relative humidity : 47 % R.H.

Mode	Band	Data Rate (Mbps)	Channel	Frequency (MHz)	6 dB Bandwidth (MHz)		Minimum Bandwidth (kHz)
					Ant.1	Ant.2	
11a	U-NII 3	6	Low	5 745	15.100	15.500	500
			Middle	5 785	13.950	15.780	
			High	5 825	15.120	16.040	
11ac_VHT20		MCS0	Low	5 745	16.270	16.840	
			Middle	5 785	15.740	16.880	
			High	5 825	14.670	15.760	
11n_HT40		MCS0	Low	5 755	35.090	35.450	
			High	5 795	35.340	35.400	
11ac_VHT80		MCS0	Middle	5 775	71.550	75.120	

- Straddle channels

Mode	Band	Data Rate (Mbps)	Channel	Frequency (MHz)	6 dB Bandwidth (MHz)		Minimum Bandwidth (kHz)
					Ant.1	Ant.2	
11a	U-NII 3	6	Straddle	5 720	2.641	3.162	500
11ac_VHT20		MCS0		5 720	2.641	3.220	
11n_HT40		MCS0		5 710	2.713	2.713	
11ac_VHT80		MCS0		5 690	2.742	2.742	