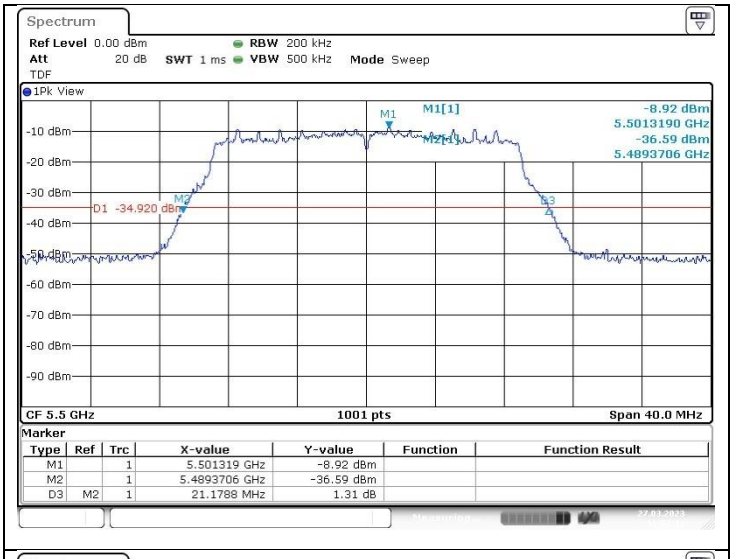
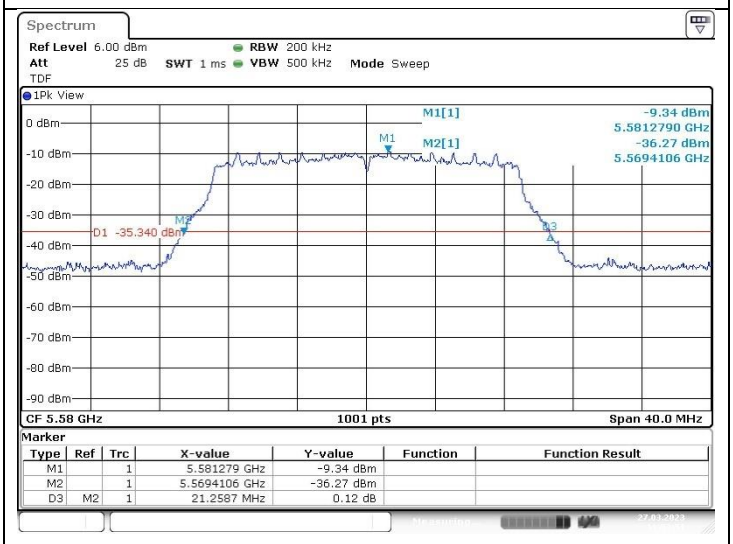
802.11ac_VHT20 (Band 2C)

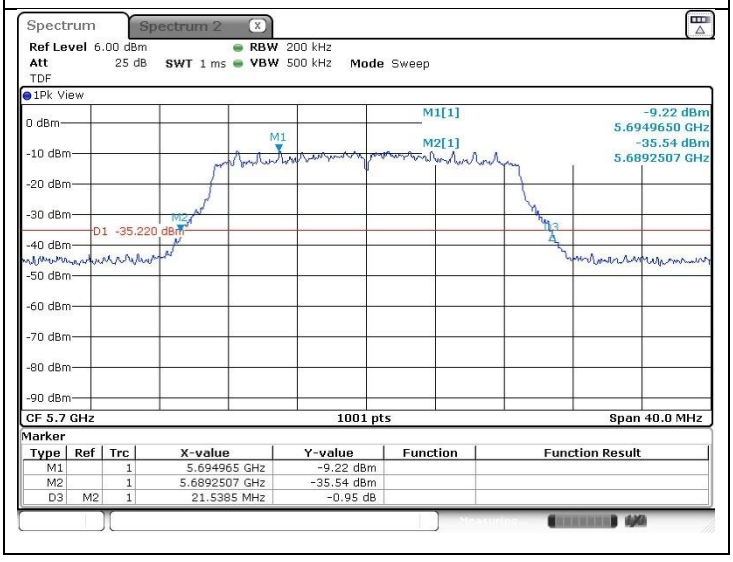
Low Channel
(5 500 ㎒)



Middle Channel
(5 580 ㎒)

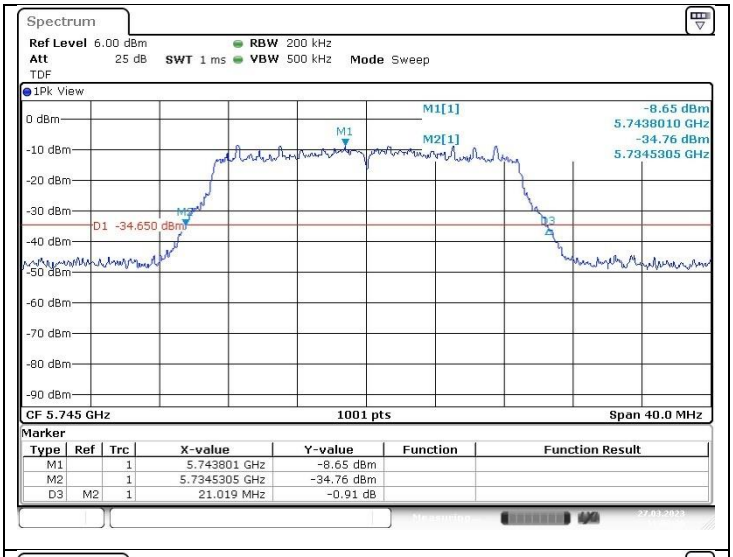


High Channel
(5 700 ㎒)

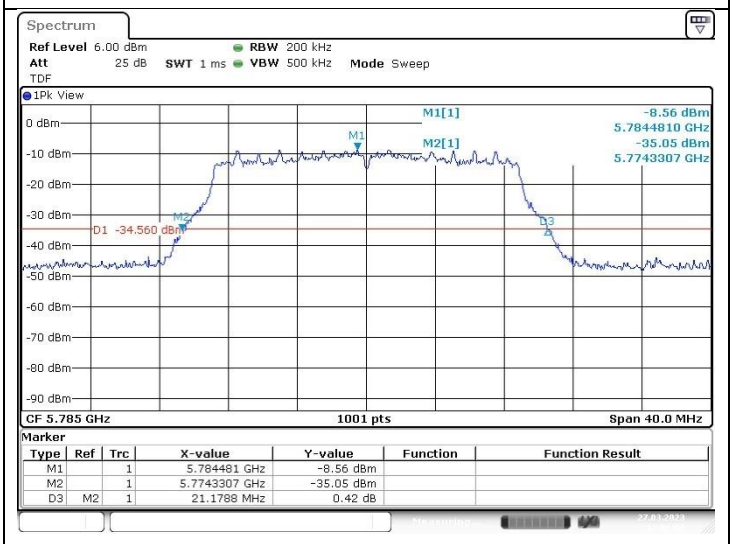


802.11ac_VHT20 (Band 3)

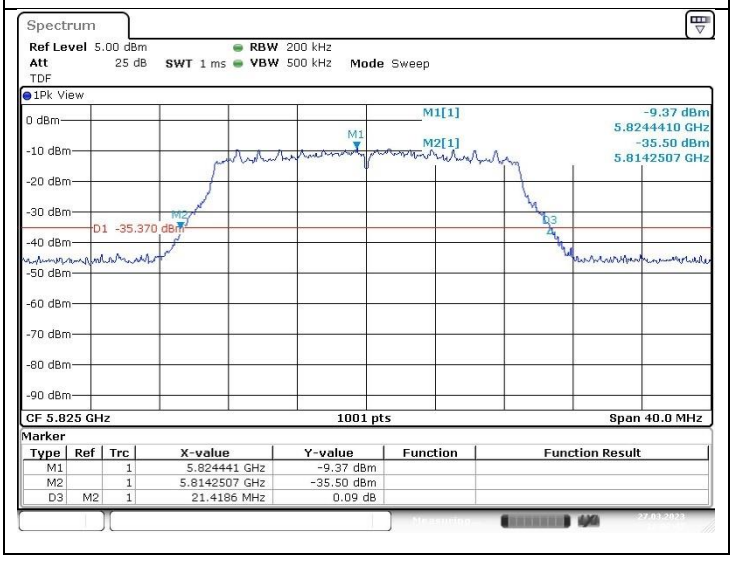
Low Channel
(5 745 ㎒)



Middle Channel
(5 785 ㎒)

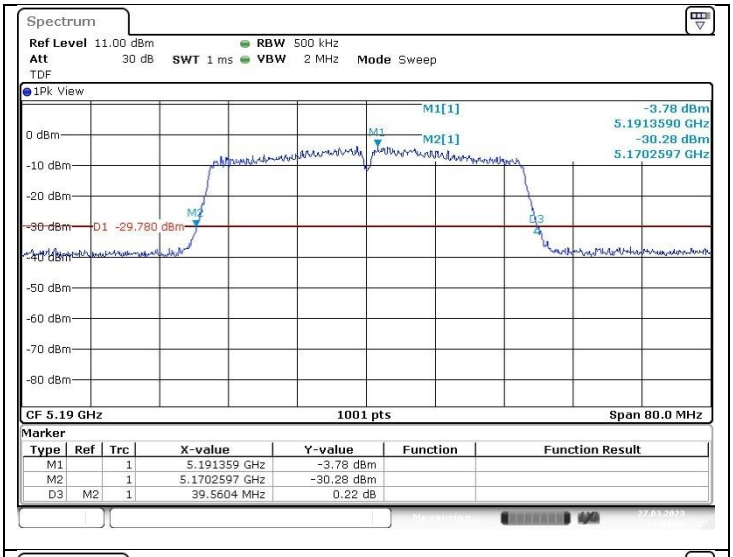


High Channel
(5 825 ㎒)

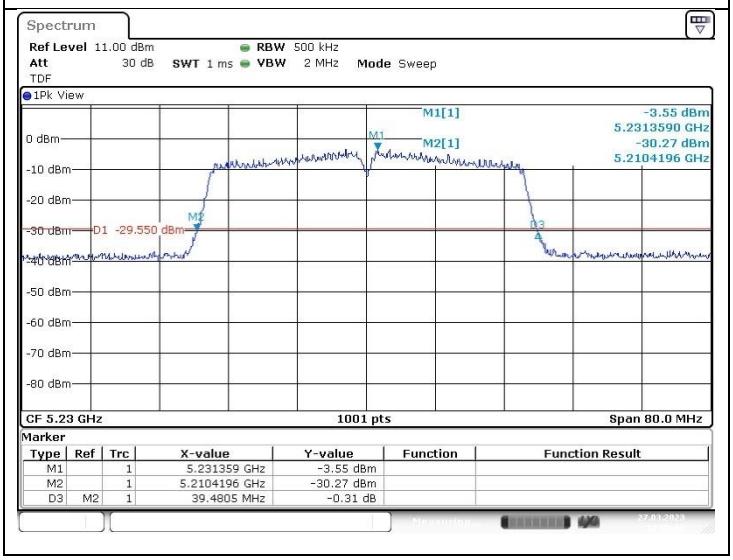


802.11ac_VHT40 (Band 1)

Low Channel
(5 190 ㎒)

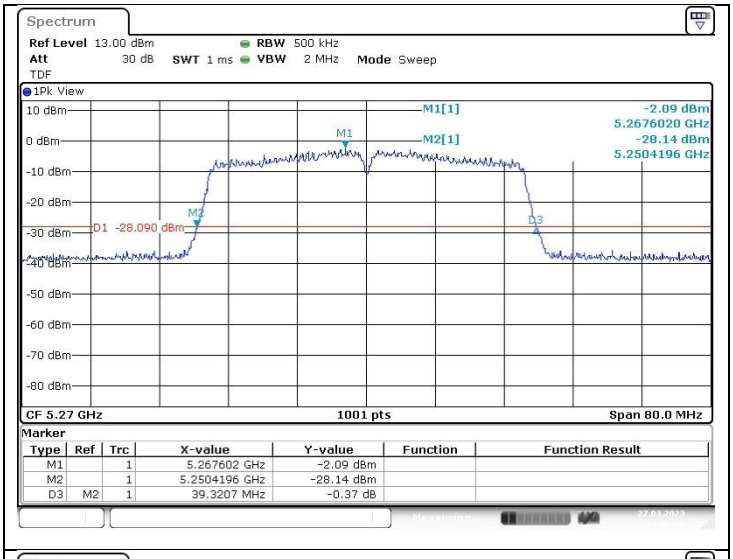


High Channel
(5 230 ㎒)

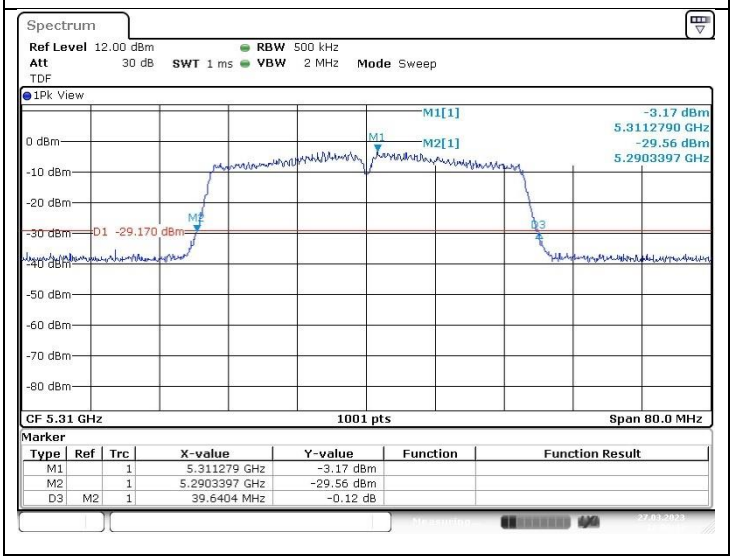


802.11ac_VHT40 (Band 2A)

Low Channel
(5 270 ㎒)

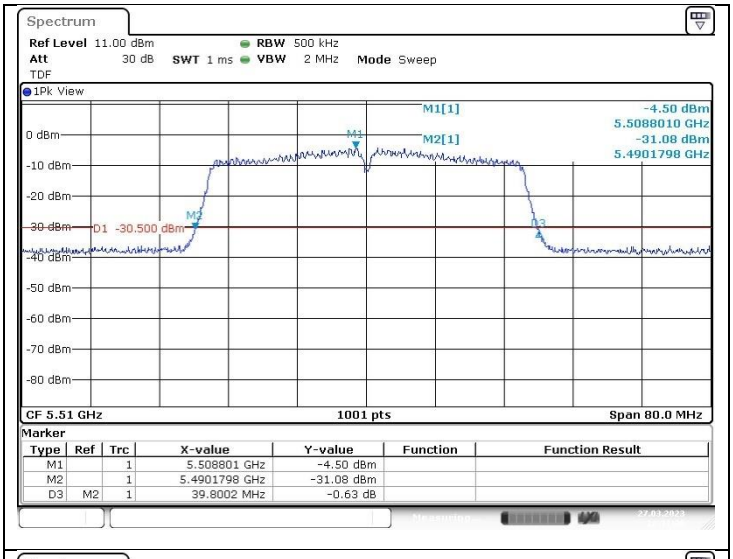


High Channel
(5 310 ㎒)

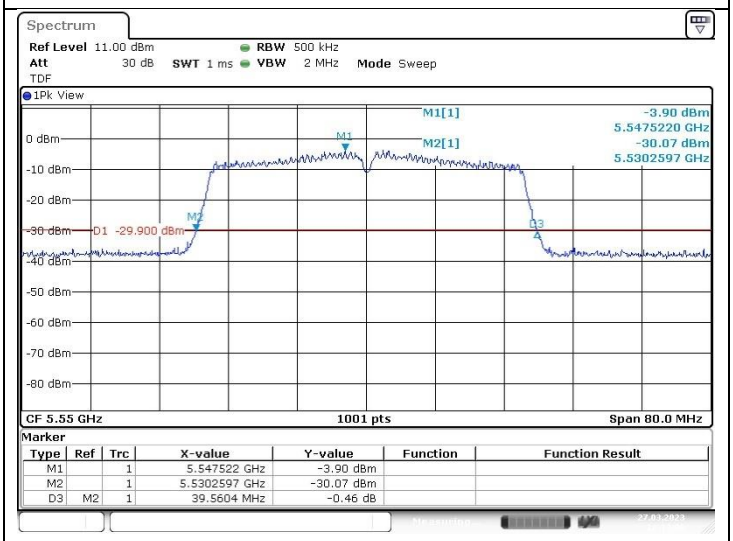


802.11ac_VHT40 (Band 2C)

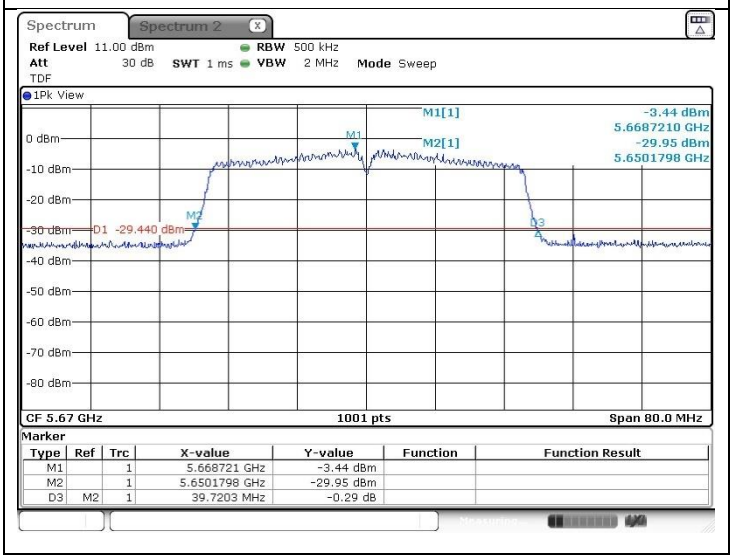
Low Channel
(5 510 ㎒)



Middle Channel
(5 550 ㎒)

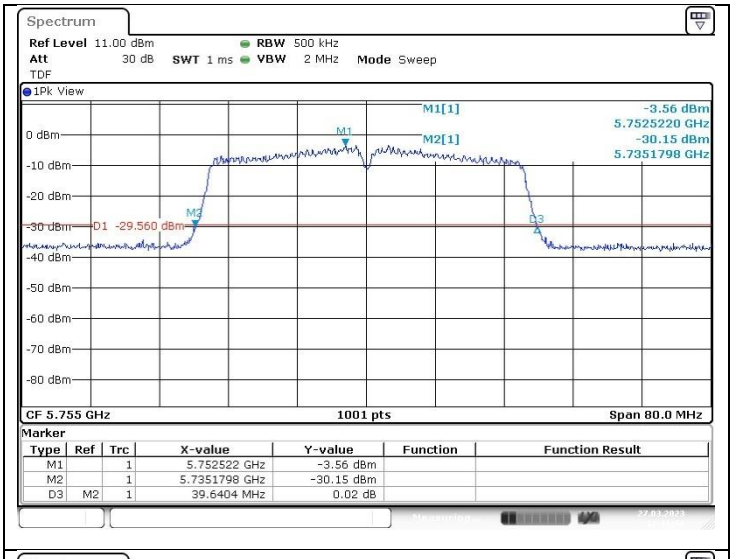


High Channel
(5 670 ㎒)

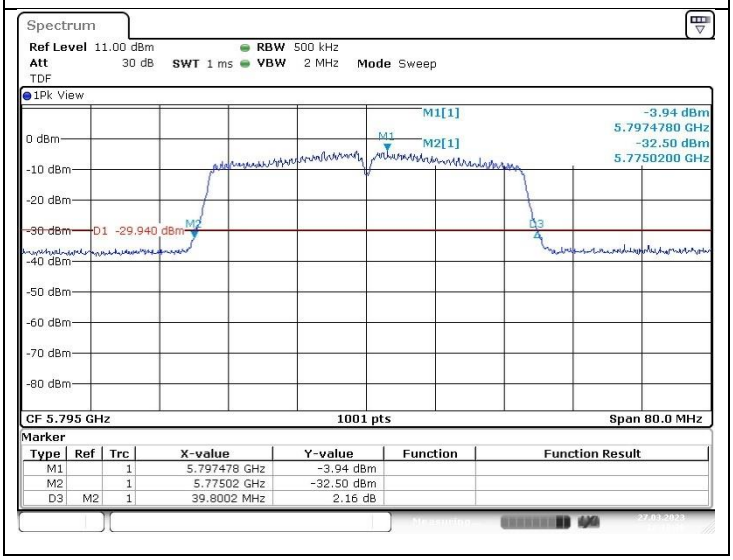


802.11ac_VHT40 (Band 3)

Low Channel
(5 755 ㎒)

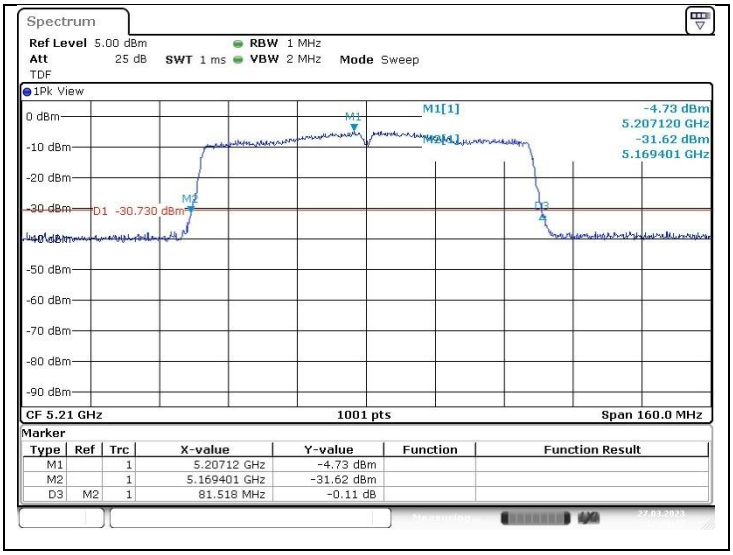


High Channel
(5 795 ㎒)



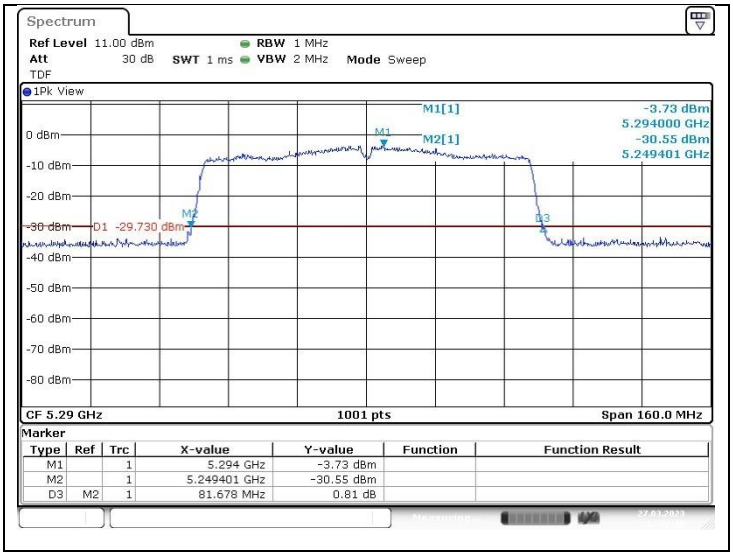
802.11ac_VHT80 (Band 1)

Middle Channel
(5 210 ㎒)



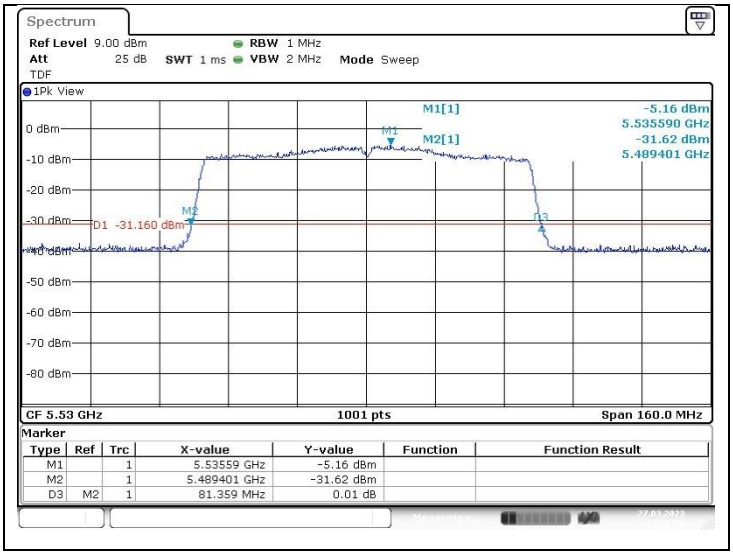
802.11ac_VHT80 (Band 2A)

Middle Channel
(5 290 ㎒)



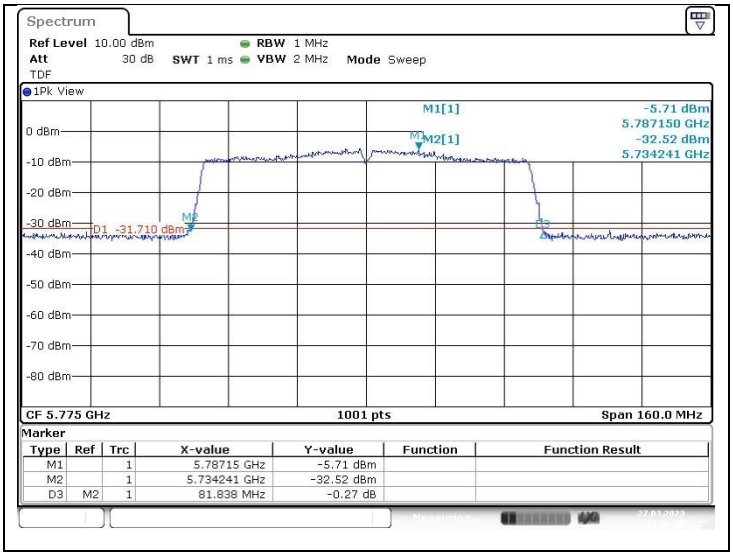
802.11ac_VHT80 (Band 2C)

Low Channel
(5 530 ㎒)



802.11ac_VHT80 (Band 3)

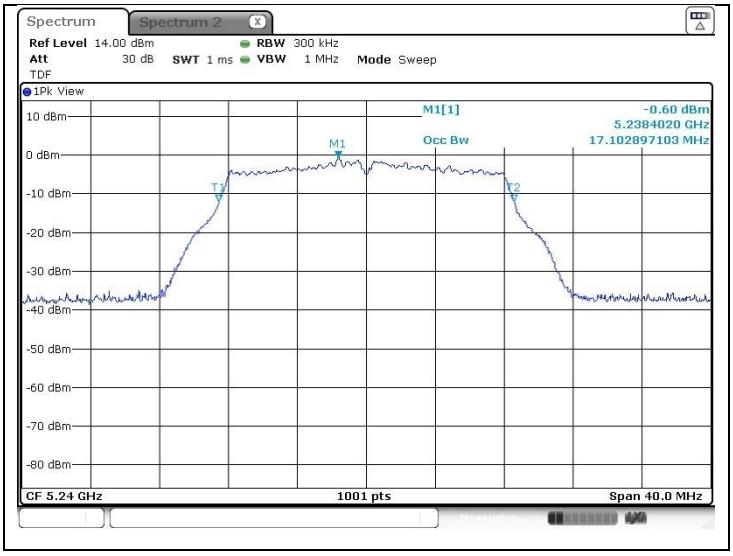
Middle Channel
(5 775 ㎒)



99 % Bandwidth

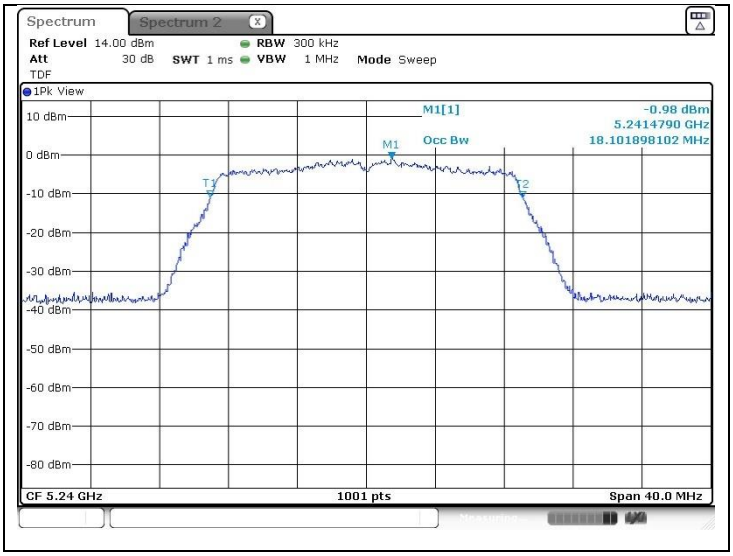
SISO_Core 0
802.11a (Band 1)

High Channel
(5 240 ㎒)



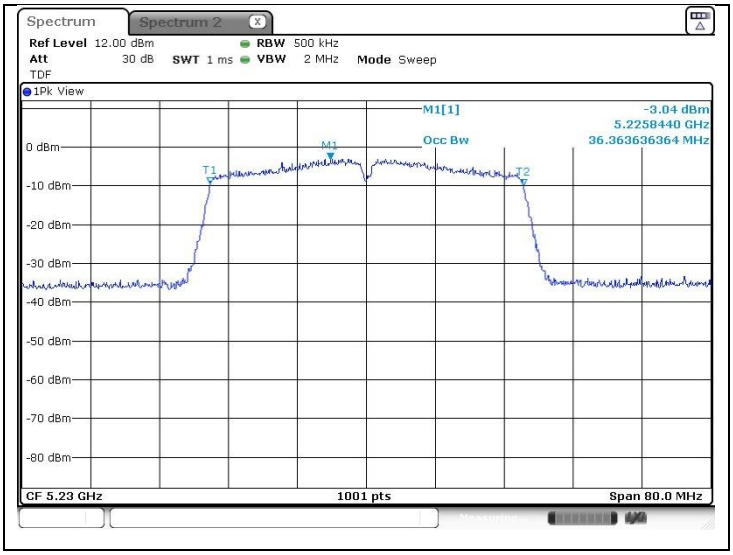
802.11ac_VHT20 (Band 1)

High Channel
(5 240 ㎒)



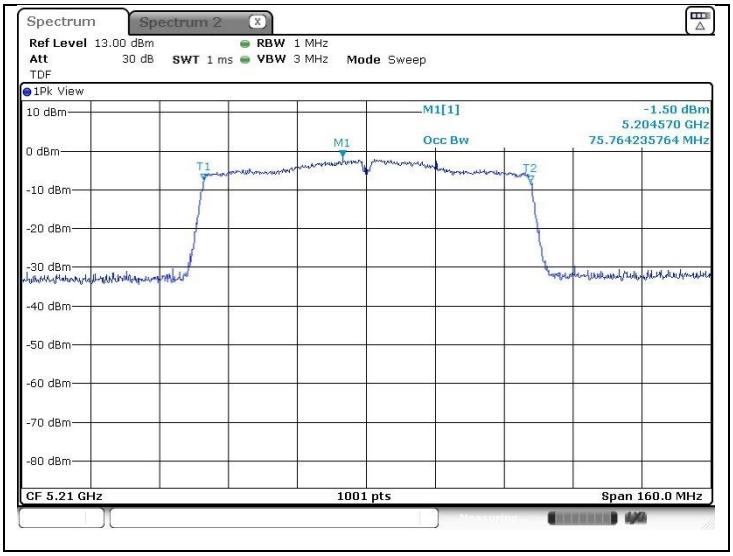
802.11n_HT40 (Band 1)

High Channel
(5 230 ㎒)



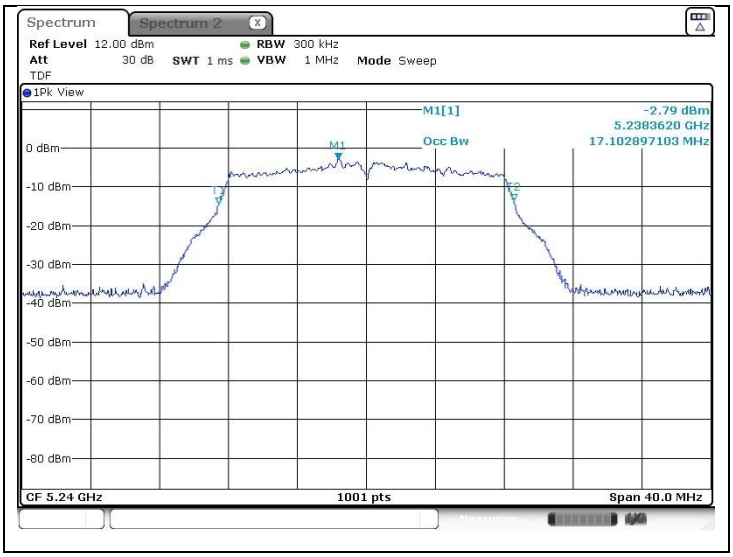
802.11ac_VHT80 (Band 1)

Middle Channel
(5 210 ㎒)



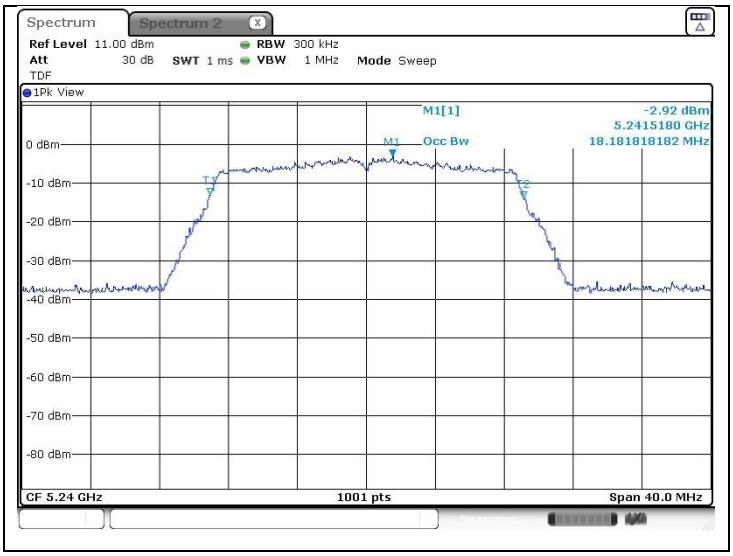
SISO_Core 1
802.11a (Band 1)

High Channel
(5 240 ㎒)



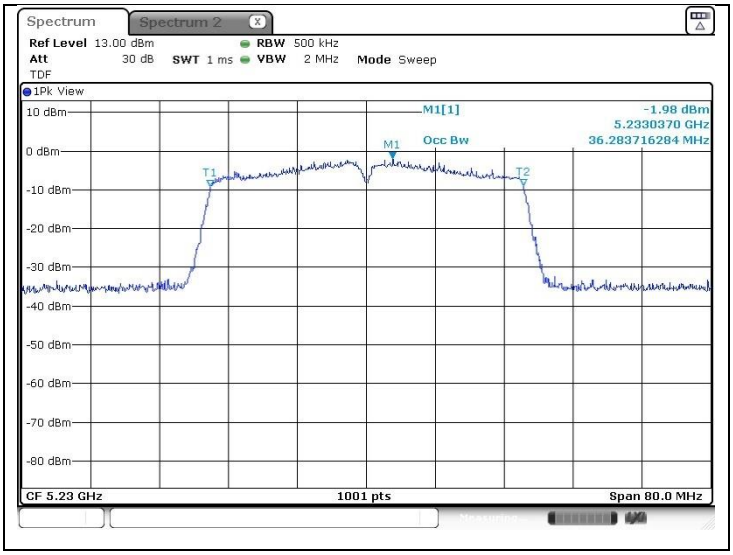
802.11ac_VHT20 (Band 1)

High Channel
(5 240 ㎒)



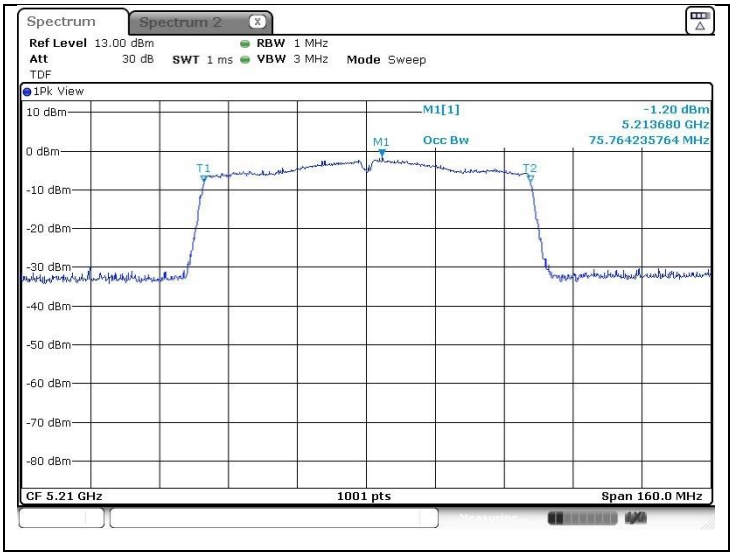
802.11n_HT40 (Band 1)

High Channel
(5 230 ㎒)



802.11ac_VHT80 (Band 1)

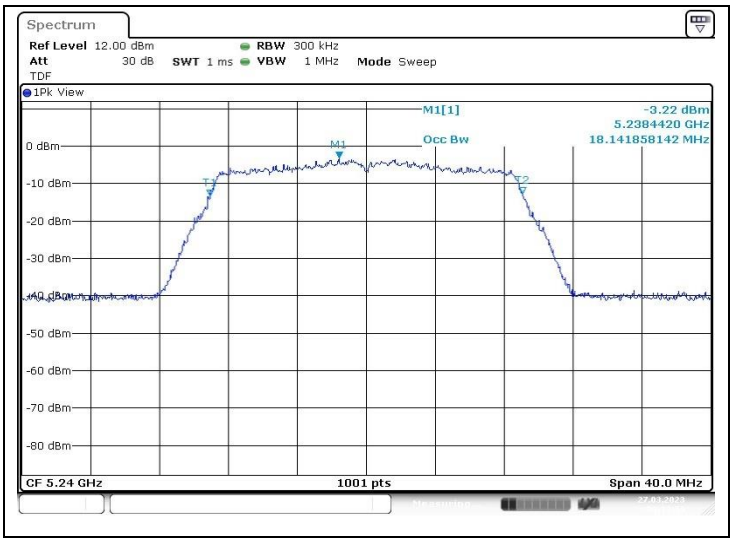
Middle Channel
(5 210 ㎒)



MIMO_Core 0

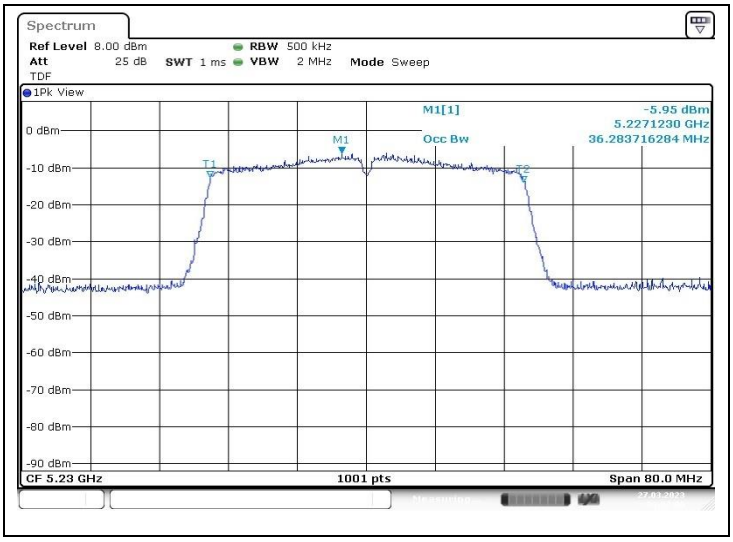
802.11ac_VHT20 (Band 1)

High Channel
(5 240 ㎒)



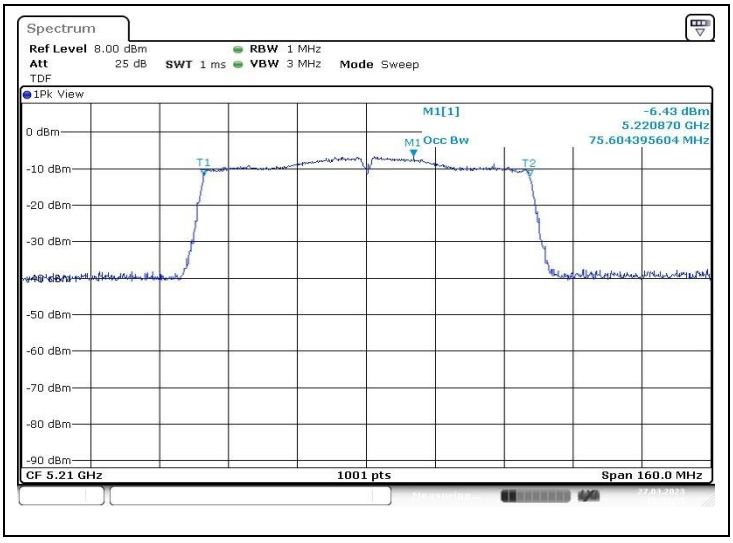
802.11ac_VHT40 (Band 1)

High Channel
(5 230 ㎒)



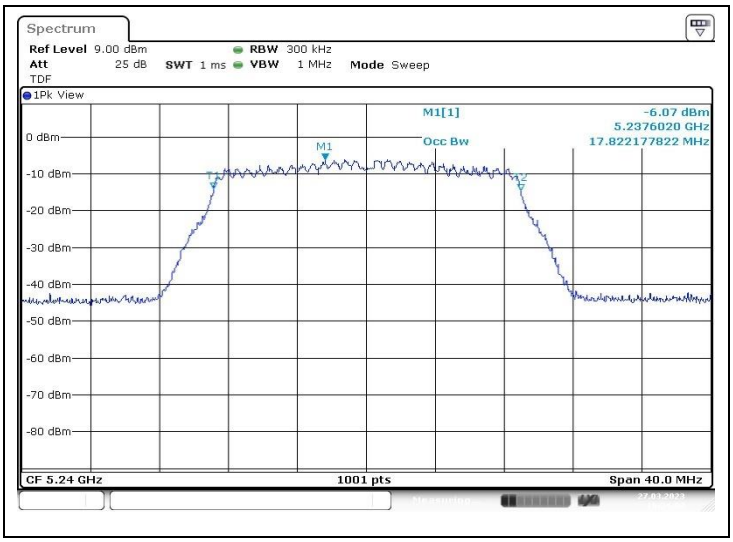
802.11ac_VHT80 (Band 1)

Middle Channel
(5 210 ㎒)



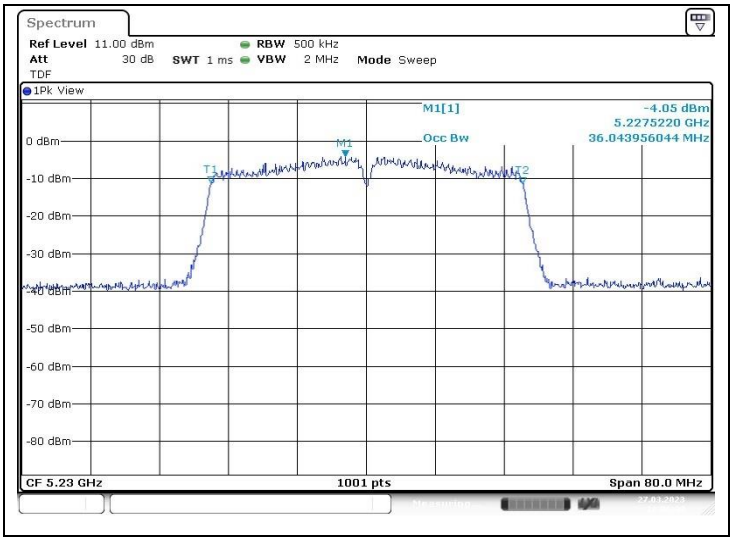
MIMO_Core 1
802.11ac_VHT20 (Band 1)

High Channel
(5 240 ㎒)



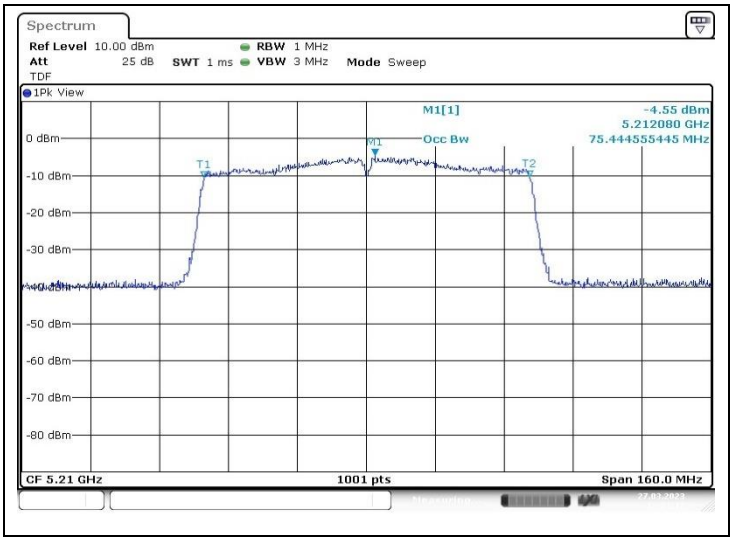
802.11ac_VHT40 (Band 1)

High Channel
(5 230 ㎒)



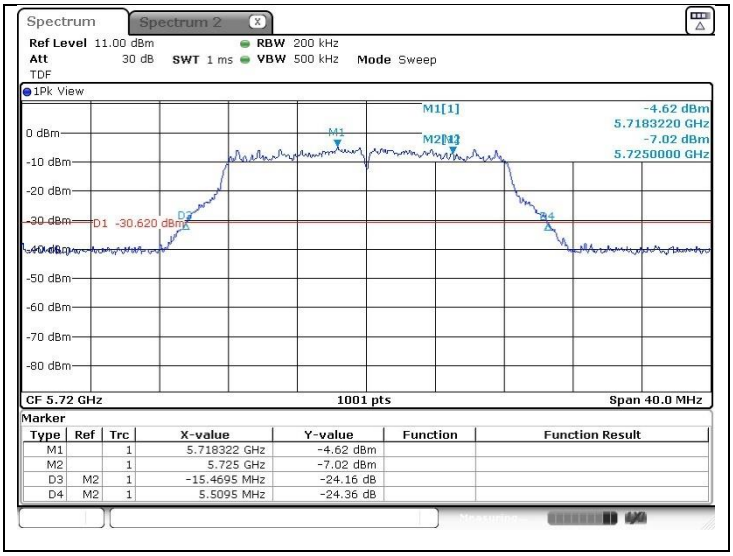
802.11ac_VHT80 (Band 1)

Middle Channel
(5 210 ㎒)



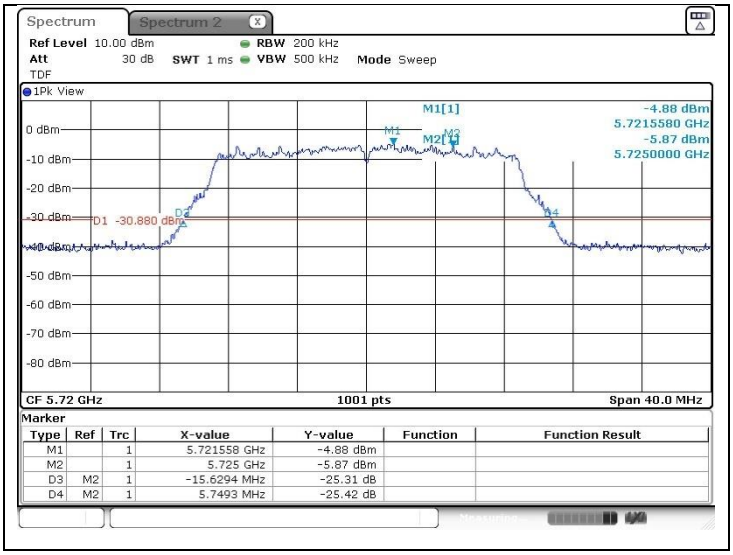
Band-crossing channels
SISO_Core 0
802.11a (Band 2C)

High Channel
(5 720 ㎒)



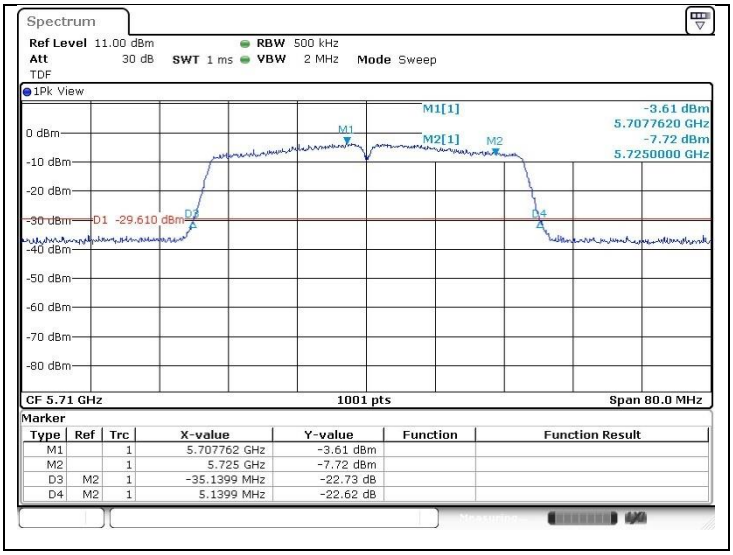
802.11ac_VHT20 (Band 2C)

High Channel
(5 720 ㎒)



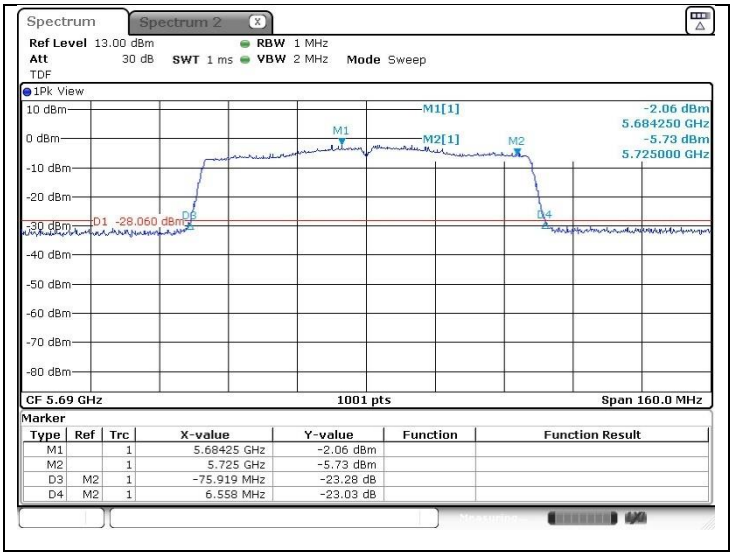
802.11n_HT40 (Band 2C)

High Channel
(5 710 ㎒)



802.11ac_VHT80 (Band 2C)

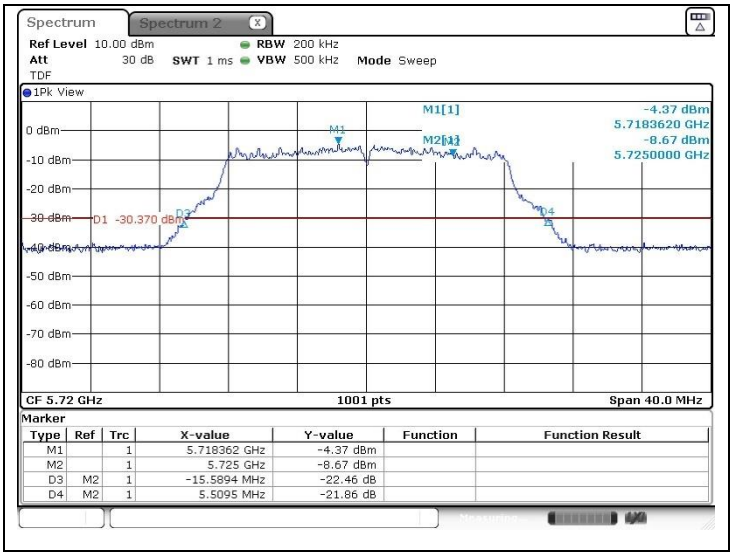
Middle Channel
(5 690 ㎒)



SISO_Core 1

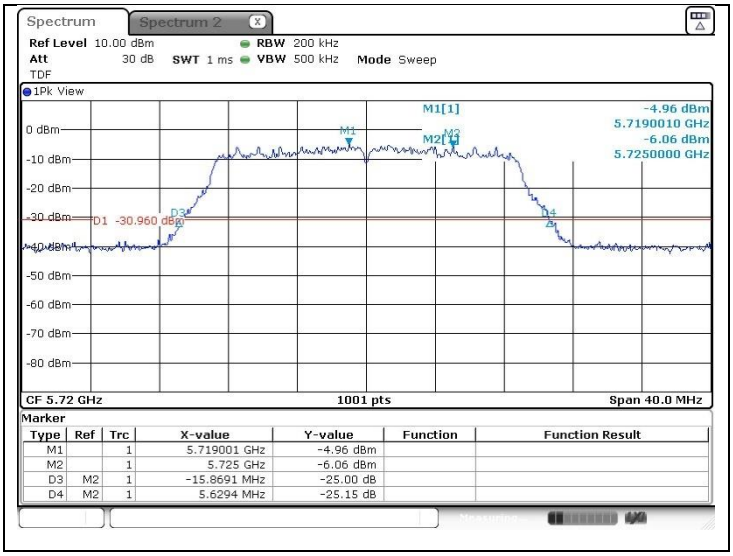
802.11a (Band 2C)

High Channel
(5 720 ㎒)



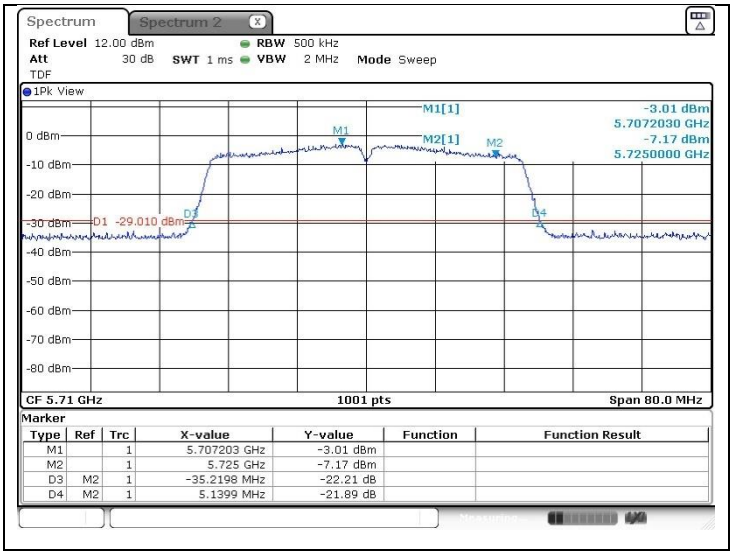
802.11ac_VHT20 (Band 2C)

High Channel
(5 720 ㎒)



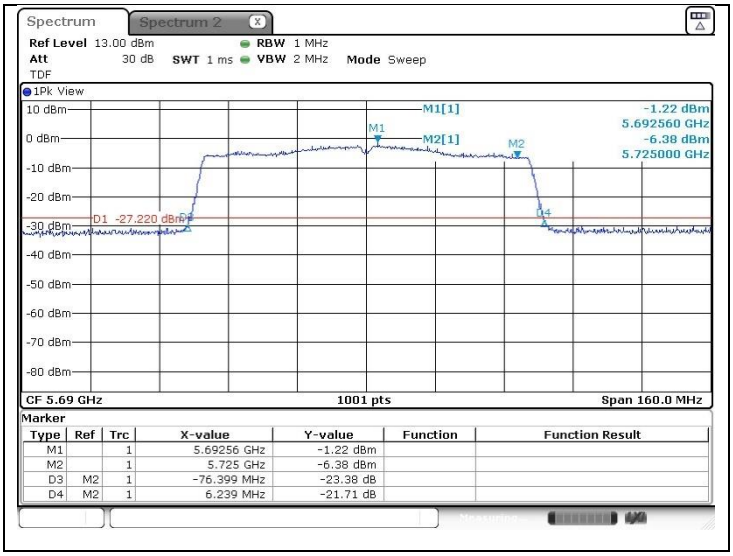
802.11n_HT40 (Band 2C)

High Channel
(5 710 ㎒)



802.11ac_VHT80 (Band 2C)

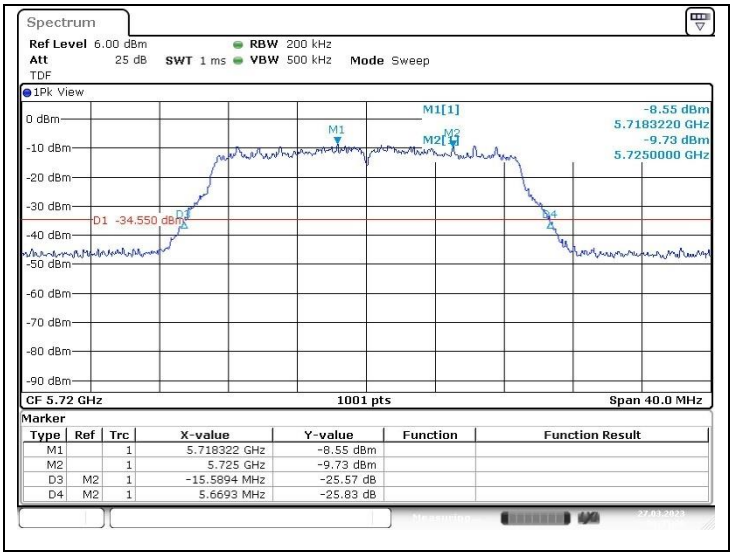
Middle Channel
(5 690 ㎒)



MIMO_Core 0

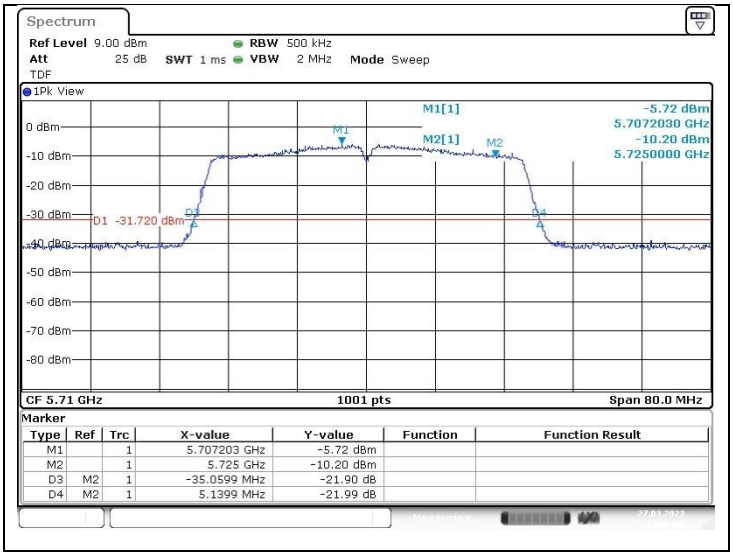
802.11ac_VHT20 (Band 2C)

High Channel
(5 720 ㎒)



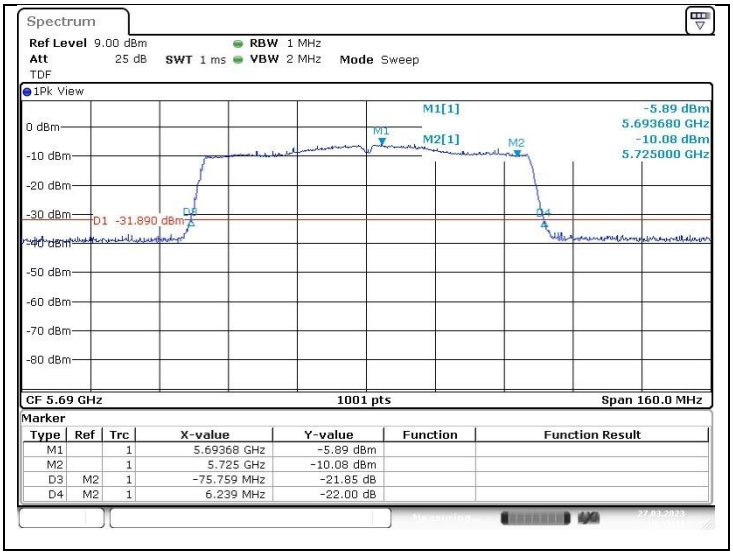
802.11ac_VHT40 (Band 2C)

High Channel
(5 710 ㎒)



802.11ac_VHT80 (Band 2C)

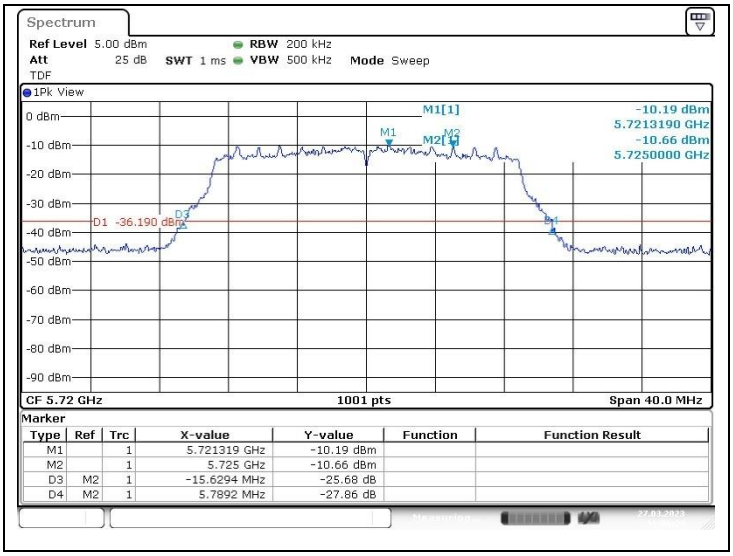
Middle Channel
(5 690 ㎒)



MIMO_Core 1

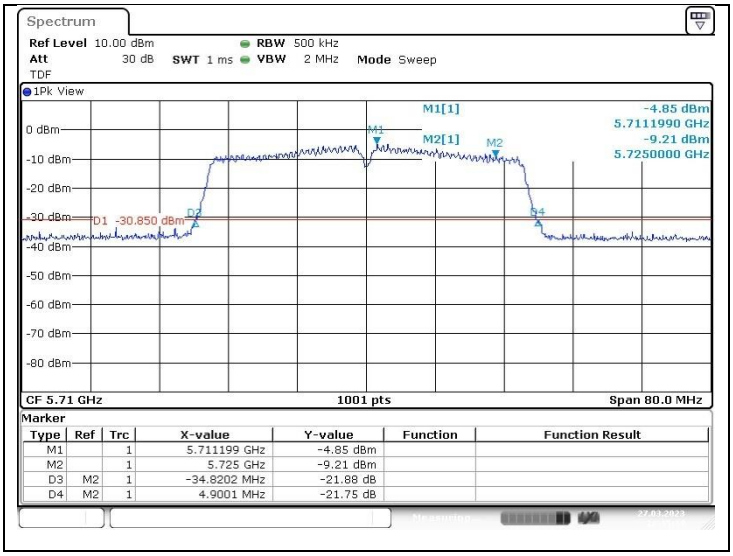
802.11ac_VHT20 (Band 2C)

High Channel
(5 720 ㎒)



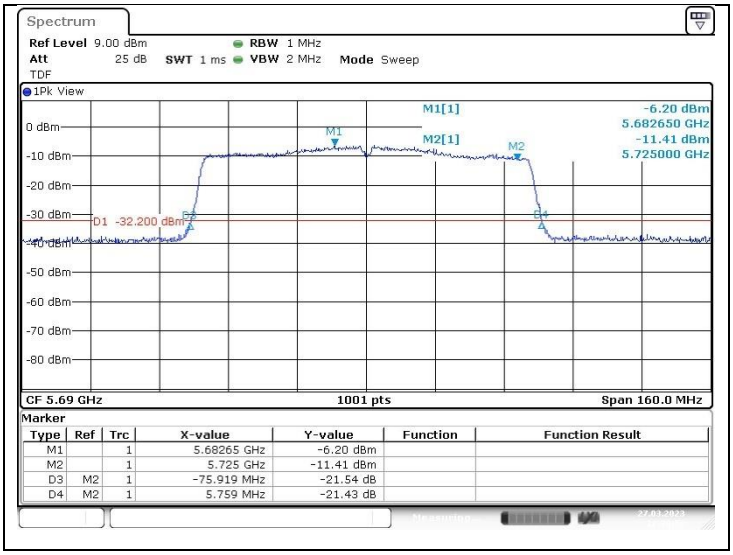
802.11ac_VHT40 (Band 2C)

High Channel
(5 710 ㎒)



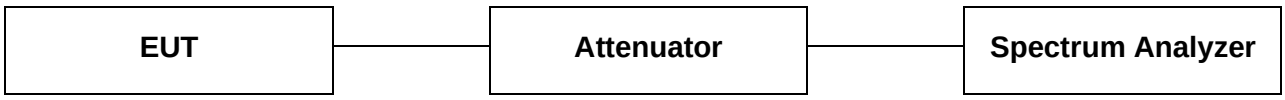
802.11ac_VHT80 (Band 2C)

Middle Channel
(5 690 ㎒)



4. 6 dB Bandwidth

4.1. Test Setup



4.2. Limit

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

4.3. Test Procedure

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 ㎑.
3. Set the video bandwidth (VBW) ≥ 3 x 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 ㏈ 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) ℃

Relative humidity : 47 % R.H.

- SISO

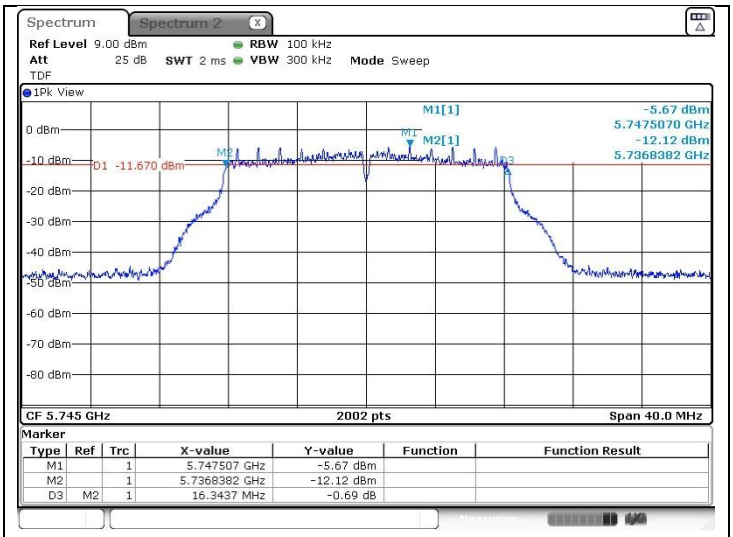
Band	Mode	Frequency (㎒)	Ch.	Data Rate (Mbps)	6 ㏈ Bandwidth (㎒)		Minimum Bandwidth (㎑)
					Core 0	Core 1	
U-NII 3	11a	5 745	149	6 Mbps	16.344	16.344	500
		5 785	157		16.324	16.344	
		5 825	165		16.344	16.344	
	11ac_VHT20	5 745	149	MCS0	17.582	17.602	
		5 785	157		17.582	17.582	
		5 825	165		17.582	17.582	
	11n_HT40	5 755	151	MCS0	35.525	35.724	
		5 795	159		35.844	35.724	
	11ac_VHT80	5 775	155	MCS0	75.285	75.684	
U-NII 3 (Band-crossing channels)	11a	5 720	144	6 Mbps	3.182	3.182	
	11ac_VHT20	5 720	144	MCS0	3.801	3.801	
	11n_HT40	5 710	142	MCS0	2.962	2.922	
	11ac_VHT80	5 690	138	MCS0	2.842	2.682	

- MIMO

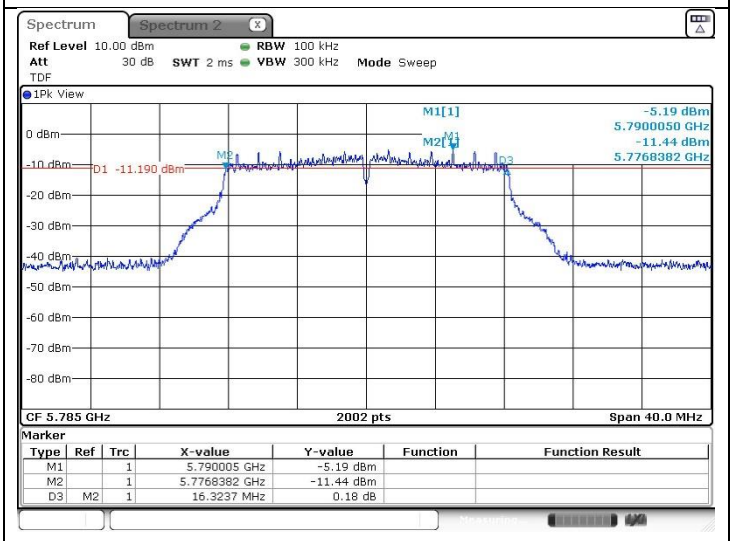
Band	Mode	Frequency (㎒)	Ch.	Data Rate (Mbps)	6 ㏈ Bandwidth (㎒)		Minimum Bandwidth (㎑)
					Core 0	Core 1	
U-NII 3	11ac_VHT20	5 745	149	MCS0	17.582	17.602	500
		5 785	157		17.582	17.602	
		5 825	165		17.582	17.602	
	11ac_VHT40	5 755	151	MCS0	35.445	35.804	
		5 795	159		35.644	36.364	
	11ac_VHT80	5 775	155	MCS0	75.285	75.365	
U-NII 3 (Band-crossing channels)	11ac_VHT20	5 720	144	MCS0	3.781	3.801	
	11ac_VHT40	5 710	142	MCS0	2.842	2.642	
	11ac_VHT80	5 690	138	MCS0	2.762	2.682	

- Test plots
SISO_Core 0
802.11a (Band 3)

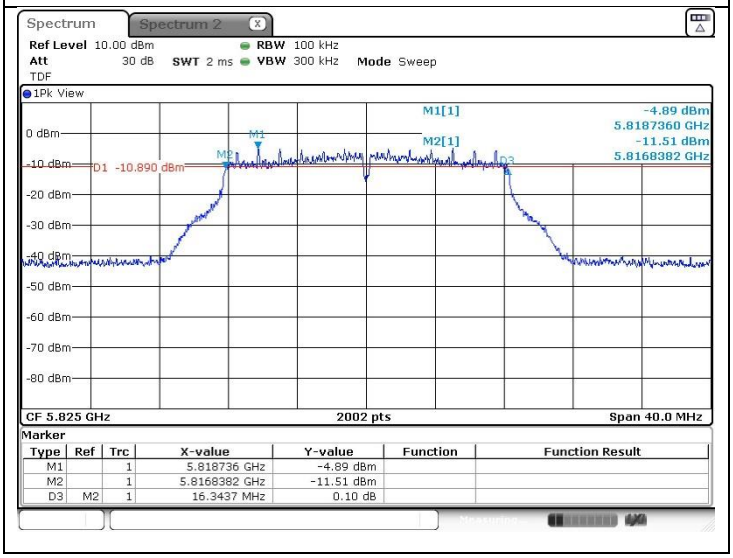
Low Channel
(5 745 ㎒)



Middle Channel
(5 785 ㎒)

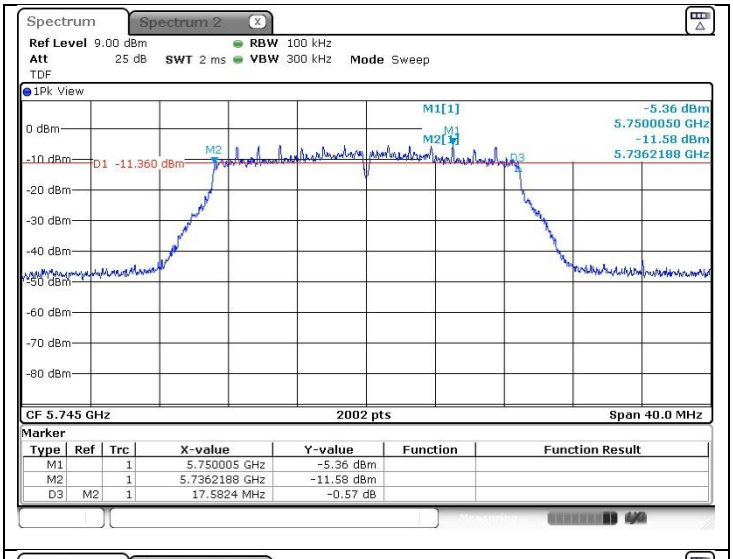


High Channel
(5 825 ㎒)

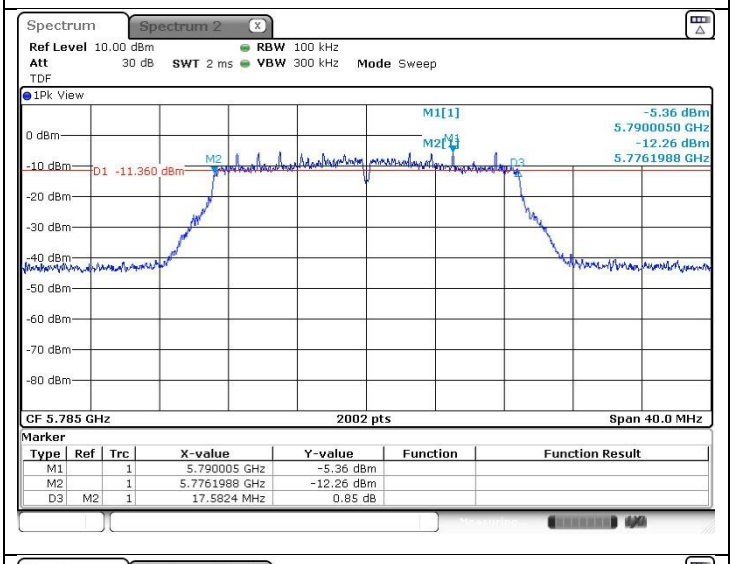


802.11ac_VHT20 (Band 3)

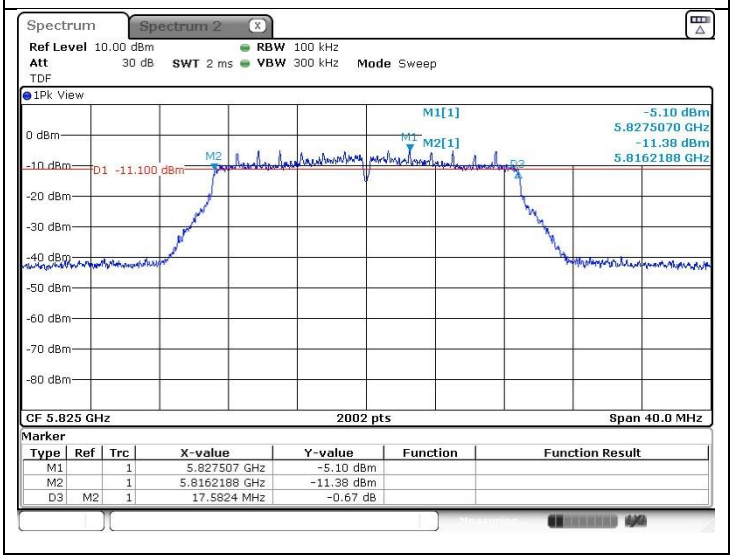
Low Channel
(5 745 ㎒)



Middle Channel
(5 785 ㎒)

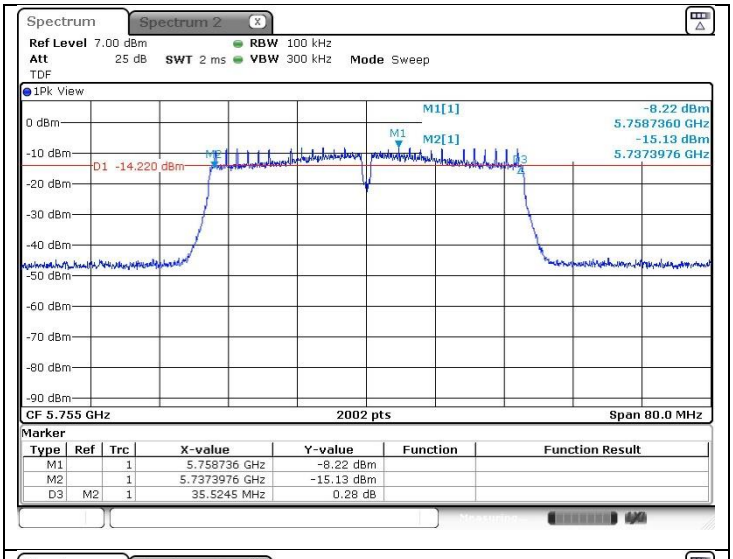


High Channel
(5 825 ㎒)

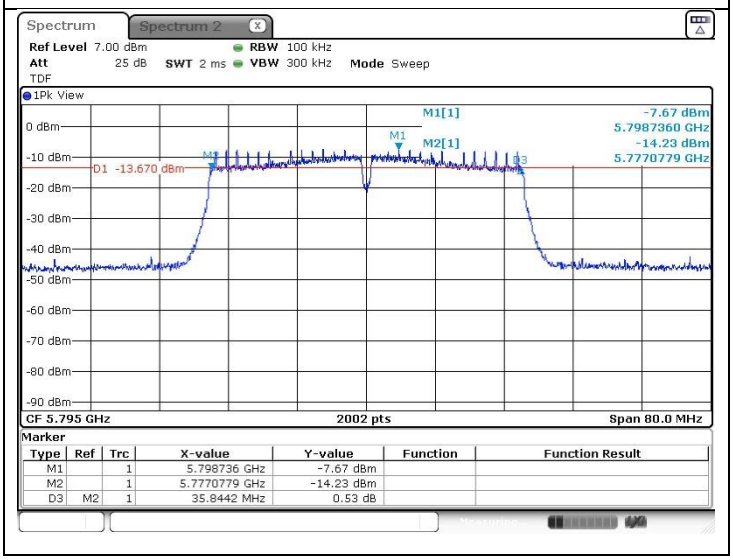


802.11n_HT40 (Band 3)

Low Channel
(5 755 ㎒)

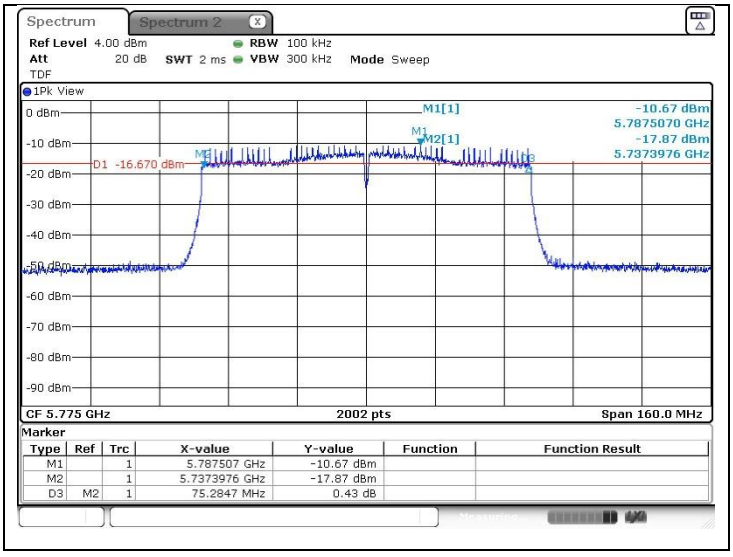


High Channel
(5 795 ㎒)



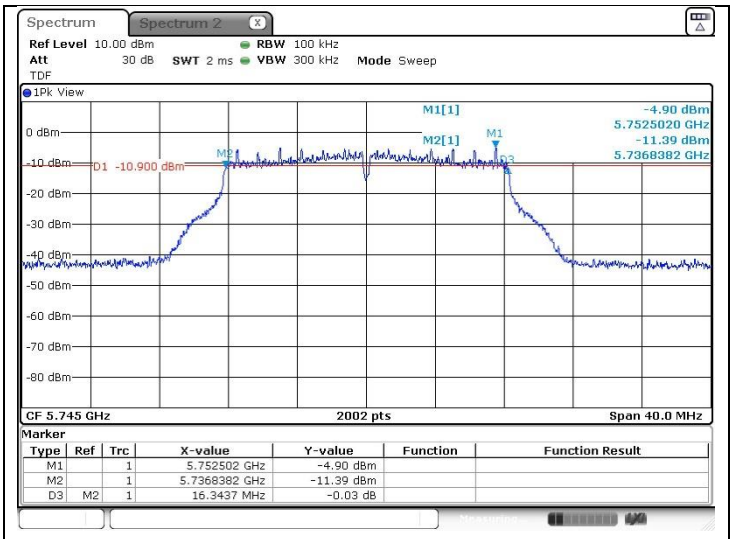
802.11ac_VHT80 (Band 3)

Middle Channel
(5 775 ㎒)

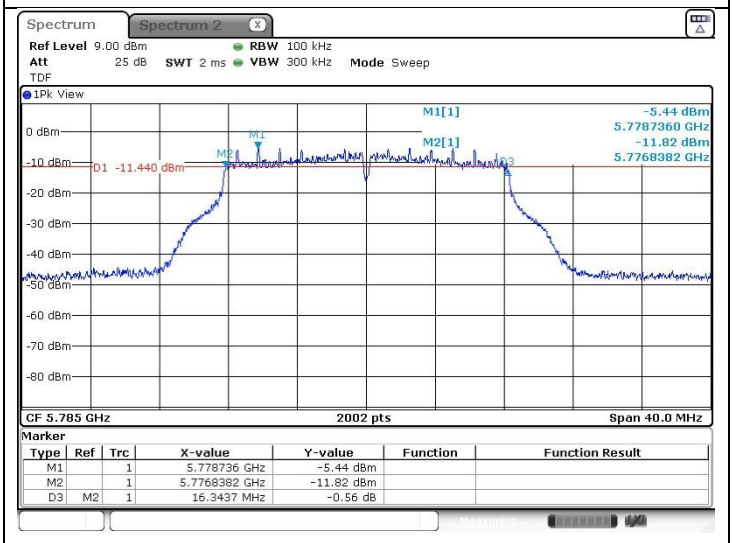


SISO_Core 1
802.11a (Band 3)

Low Channel
(5 745 ㎒)



Middle Channel
(5 785 ㎒)



High Channel
(5 825 ㎒)