

802.11 ac 40MHz:

Channel 142 (5710 MHz). Out-of-band spurious emissions in the 1-40 GHz range.

Chain A

Spurious frequency (GHz)	Polarization	Detector	Emission Level (dB $\mu$ V/m)	Measurement Uncertainty (dB)
11.41991	V	Peak	50.54	$\pm 4.00$
17.12374	V	Peak	64.43	$\pm 4.00$
		Average	52.87	$\pm 4.00$
22.83950	V	Peak	53.03	$\pm 4.00$

Chain B

Spurious frequency (GHz)	Polarization	Detector	Emission Level (dB $\mu$ V/m)	Measurement Uncertainty (dB)
11.41999	V	Peak	53.43	$\pm 4.00$
17.12393	V	Peak	62.51	$\pm 4.00$
		Average	52.68	$\pm 4.00$
22.83950	V	Peak	52.57	$\pm 4.00$

Chain A+B

Spurious frequency (GHz)	Polarization	Detector	Emission Level (dB $\mu$ V/m)	Measurement Uncertainty (dB)
11.3402	V	Peak	54.29	$\pm 4.00$
		Average	43.37	$\pm 4.00$
17.0134	V	Peak	61.29	$\pm 4.00$
		Average	50.38	$\pm 4.00$
22.8395	V	Peak	53.65	$\pm 4.00$

Verdict: PASS

#### 4. WiFi 5GHz 802.11 ac80 mode

Lowest frequency (106) 5530MHz. Out-of-band spurious emissions inside restricted band 5.35-5.46 GHz and 5.46-5.47 adjacent band. Highest spurious levels in bands.

##### Chain A

Spurious frequency (GHz)	Polarization	Detector	Emission Level (dB $\mu$ V/m)	Measurement Uncertainty (dB)
5.45954	V	Peak	64.38	$\pm 4.00$
		Average	52.17	$\pm 4.00$
5.46281	V	Peak	65.50	$\pm 4.00$
		Average	52.19	$\pm 4.00$

##### Chain B

Spurious frequency (GHz)	Polarization	Detector	Emission Level (dB $\mu$ V/m)	Measurement Uncertainty (dB)
5.45879	V	Peak	59.43	$\pm 4.00$
		Average	47.15	$\pm 4.00$
5.46285	V	Peak	61.97	$\pm 4.00$
		Average	46.78	$\pm 4.00$

##### Chain A+B

Spurious frequency (GHz)	Polarization	Detector	Emission Level (dB $\mu$ V/m)	Measurement Uncertainty (dB)
5.45994	V	Peak	58.42	$\pm 4.00$
		Average	47.46	$\pm 4.00$
5.46539	V	Peak	63.09	$\pm 4.00$
		Average	48.14	$\pm 4.00$

Middle frequency (122) 5610MHz. Out-of-band spurious emissions in the 1-40 GHz range and emissions inside restricted band 5.725-5.825 GHz adjacent bands.

#### Chain A

Spurious frequency (GHz)	Polarization	Detector	Emission Level (dB $\mu$ V/m)	Measurement Uncertainty (dB)
5.79649	V	Peak	56.01	$\pm 4.00$
		Average	42.45	$\pm 4.00$
16.8484	V	Peak	62.37	$\pm 4.00$
	V	Average	49.99	$\pm 4.00$
22.4395	V	Peak	53.79	$\pm 4.00$

#### Chain B

Spurious frequency (GHz)	Polarization	Detector	Emission Level (dB $\mu$ V/m)	Measurement Uncertainty (dB)
5.785844	V	Peak	55.71	$\pm 4.00$
	V	Average	42.41	$\pm 4.00$
16.8319	V	Peak	57.69	$\pm 4.00$
		Average	46.89	$\pm 4.00$
22.4405	V	Peak	53.92	$\pm 4.00$

#### Chain A+B

Spurious frequency (GHz)	Polarization	Detector	Emission Level (dB $\mu$ V/m)	Measurement Uncertainty (dB)
5.763619	V	Peak	55.35	$\pm 4.00$
	V	Average	42.64	$\pm 4.00$
11.2398	V	Peak	52.69	$\pm 4.00$
16.8594	V	Peak	61.11	$\pm 4.00$
		Average	48.92	$\pm 4.00$
22.4395	V	Peak	54.74	$\pm 4.00$
		Average	48.12	$\pm 4.00$

802.11 ac 80MHz:

Channel 138 (5690 MHz). Out-of-band spurious emissions in the 1-40 GHz range.

Chain A

Spurious frequency (GHz)	Polarization	Detector	Emission Level (dB $\mu$ V/m)	Measurement Uncertainty (dB)
17.1111	V	Peak	60.62	$\pm 4.00$
		Average	48.07	$\pm 4.00$
22.7595	V	Peak	55.24	$\pm 4.00$
		Average	50.01	$\pm 4.00$

Chain B

Spurious frequency (GHz)	Polarization	Detector	Emission Level (dB $\mu$ V/m)	Measurement Uncertainty (dB)
17.09730	V	Peak	59.37	$\pm 4.00$
		Average	47.83	$\pm 4.00$
22.75950	V	Peak	55.25	$\pm 4.00$
		Average	50.37	$\pm 4.00$

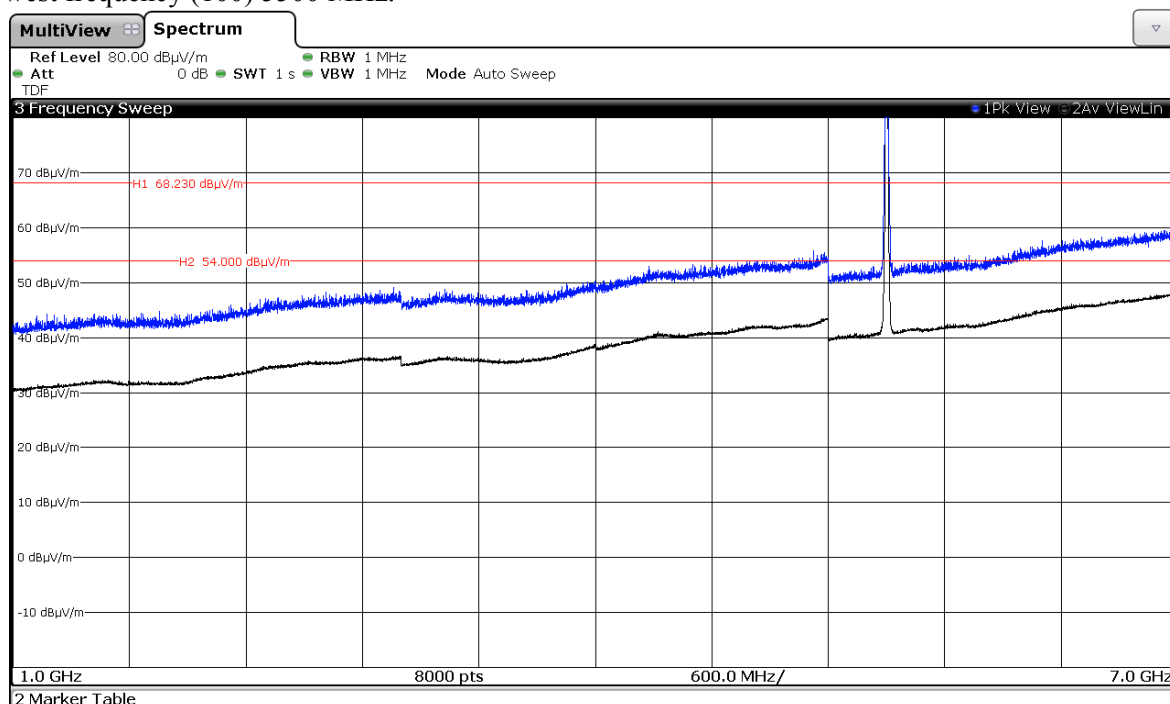
Chain A+B

Spurious frequency (GHz)	Polarization	Detector	Emission Level (dB $\mu$ V/m)	Measurement Uncertainty (dB)
17.1028	V	Peak	60.92	$\pm 4.00$
		Average	48.95	$\pm 4.00$
22.7595	V	Peak	55.53	$\pm 4.00$
		Average	50.33	$\pm 4.00$

Verdict: PASS

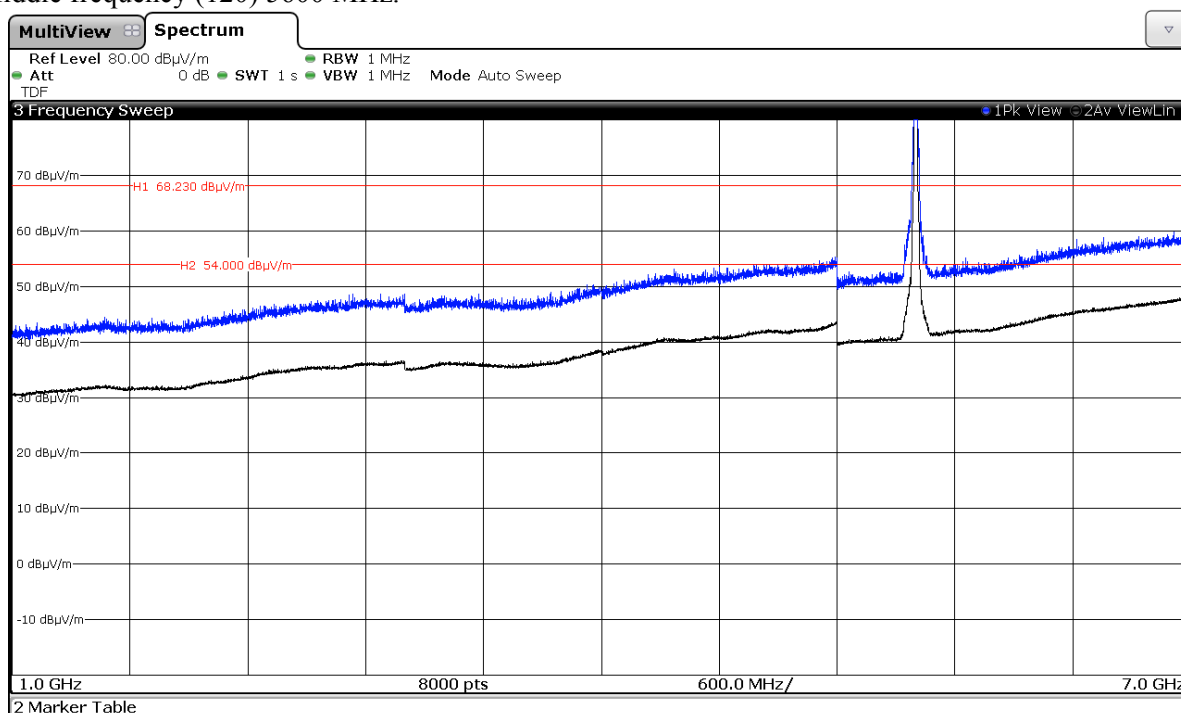
# **FREQUENCY RANGE 1 GHz to 7 GHz.** **WiFi 5GHz 802.11 a mode**

Lowest frequency (100) 5500 MHz.



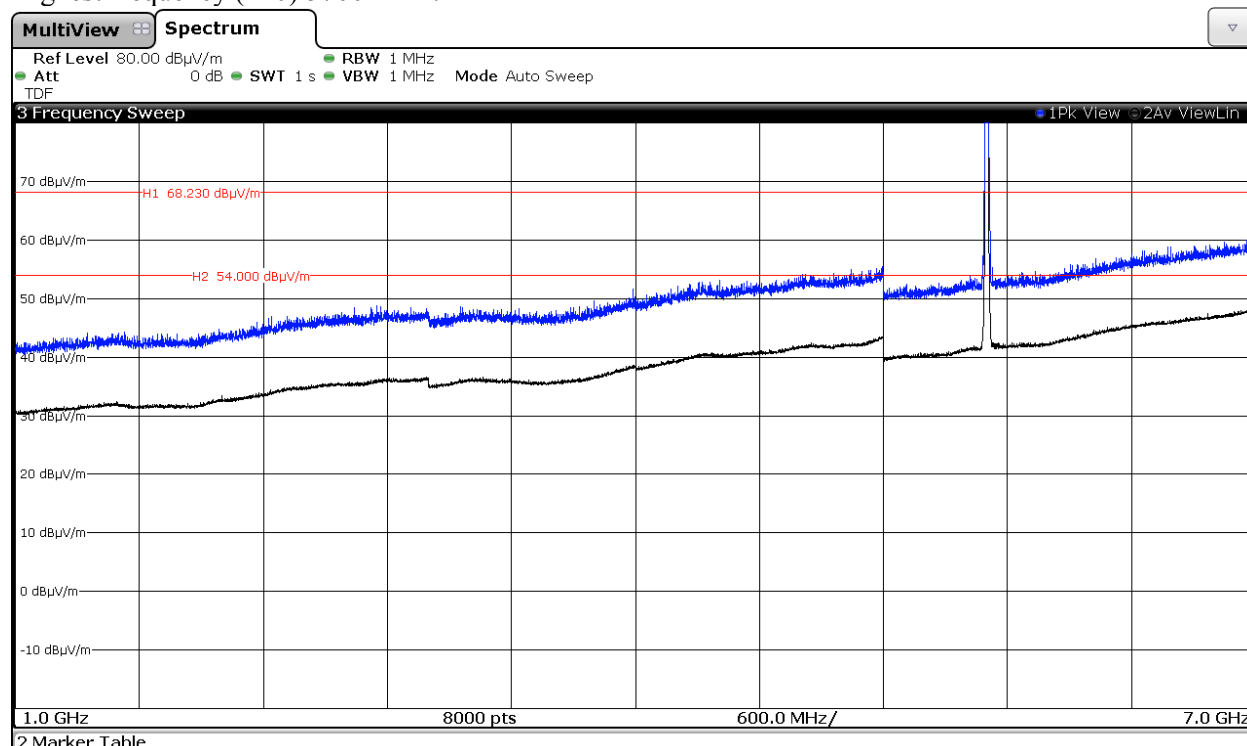
Note: The peak above the limit is the carrier frequency. This plot is valid for both Chain A and Chain B.

Middle frequency (120) 5600 MHz.



Note: The peak above the limit is the carrier frequency. This plot is valid for both Chain A and Chain B.

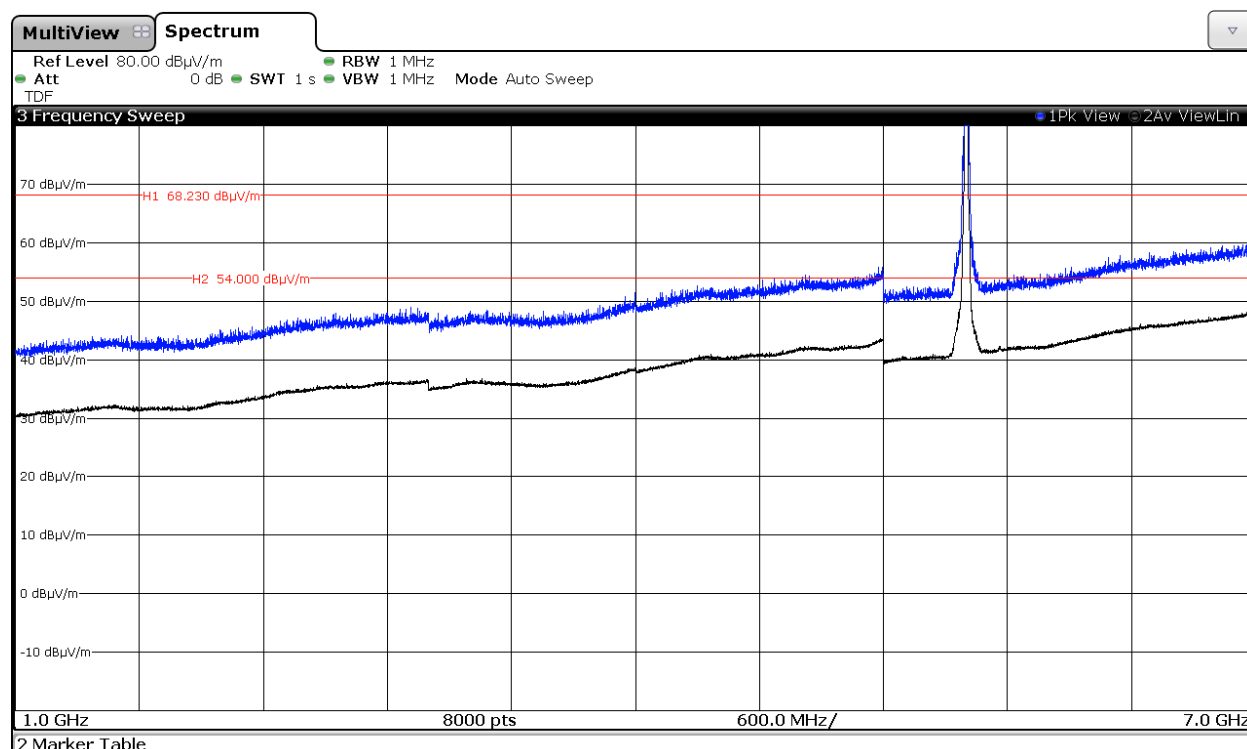
Highest frequency (140) 5700 MHz.



Note: The peak above the limit is the carrier frequency. This plot is valid for both Chain A and Chain B.

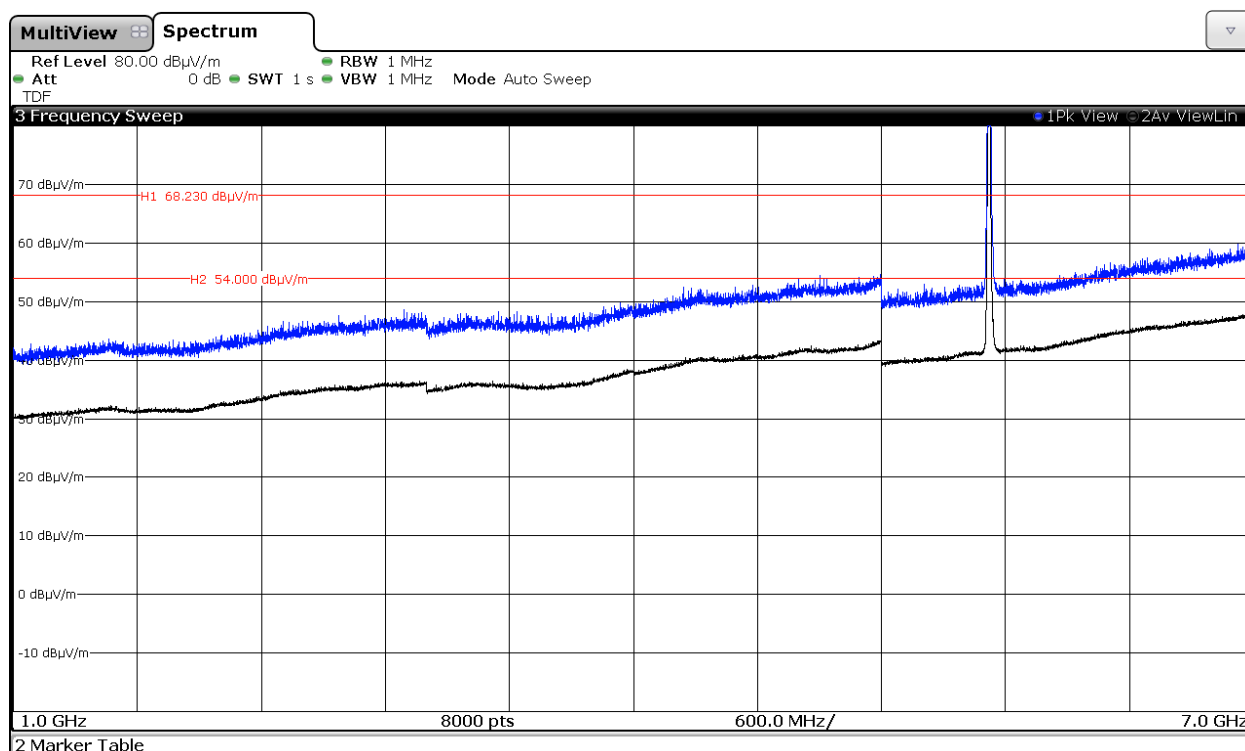
## 2. WiFi 5GHz 802.11 n20 mode

Middle frequency (120) 5600 MHz.



Note: The peak above the limit is the carrier frequency. This plot is valid for both Chain A and Chain B, Chain A+B.

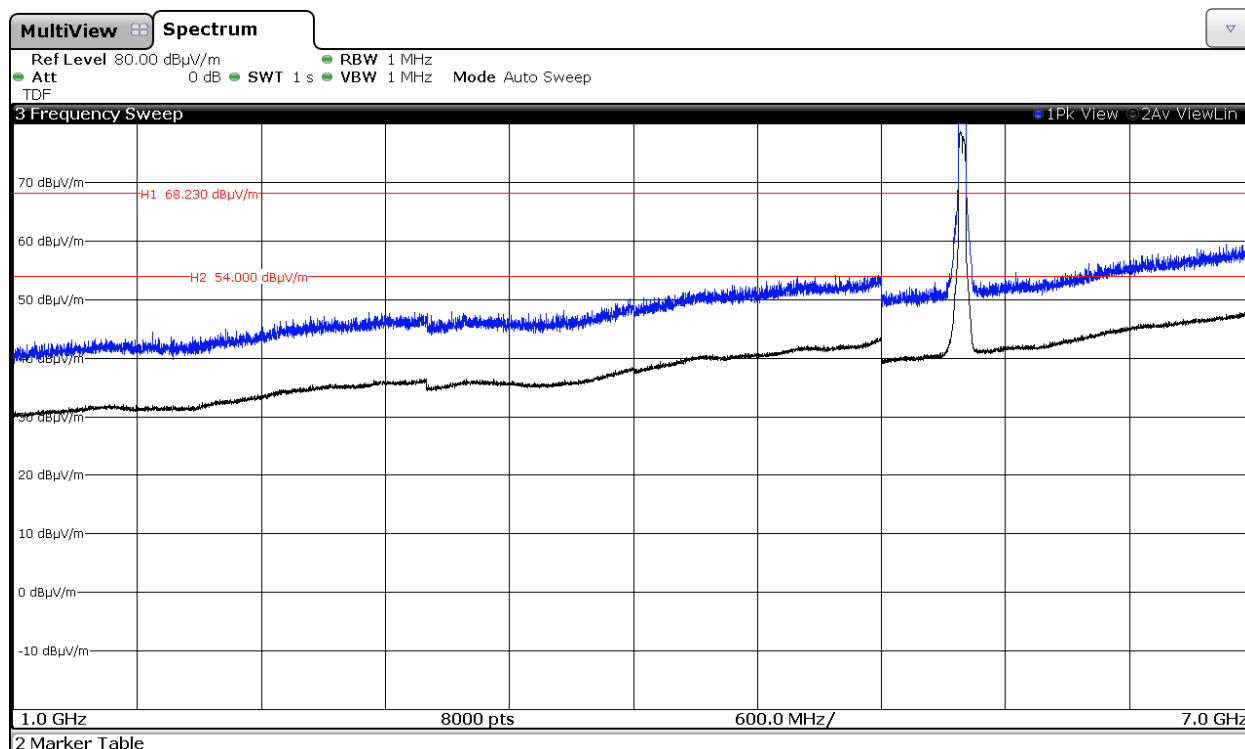
802.11ac20 mode: CH 144 5720 MHz.



Note: The peak above the limit is the carrier frequency. This plot is valid for both Chain A and Chain B, Chain A+B.

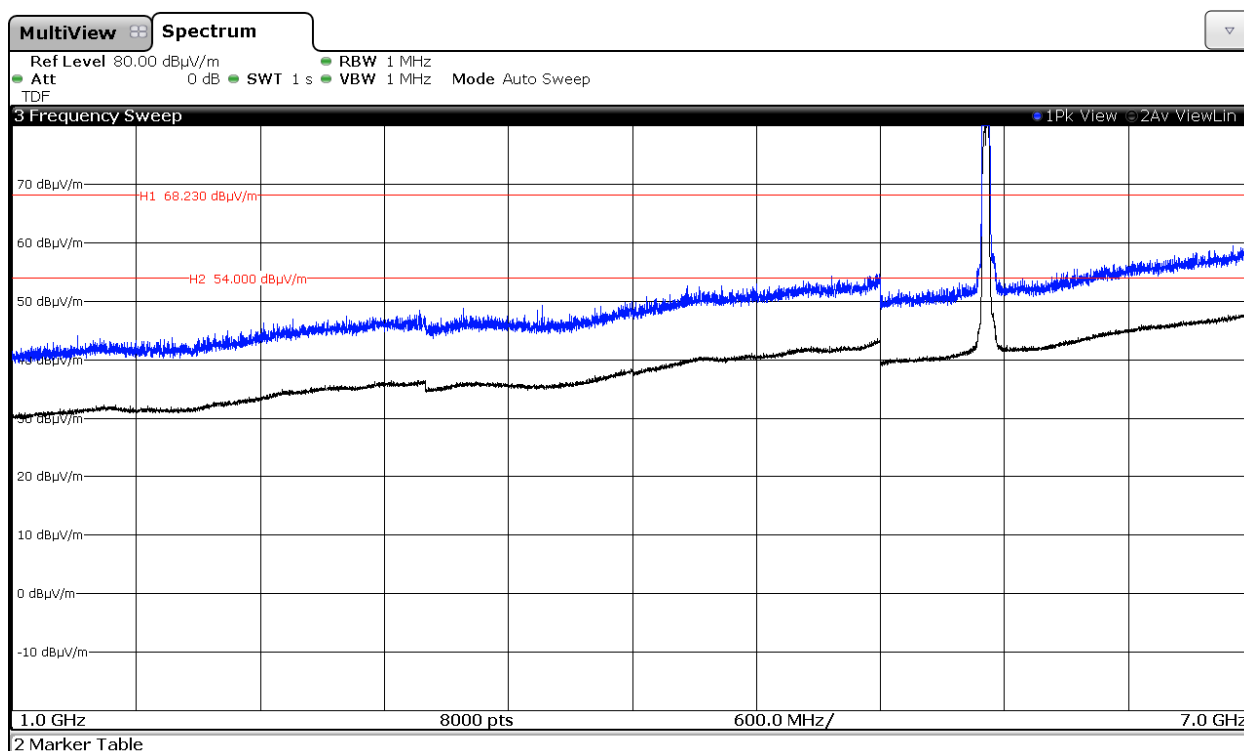
### 3. WiFi 5GHz 802.11 n40 mode

Middle frequency (118) 5590 MHz.



Note: The peak above the limit is the carrier frequency. This plot is valid for both Chain A and Chain B, Chain A+B.

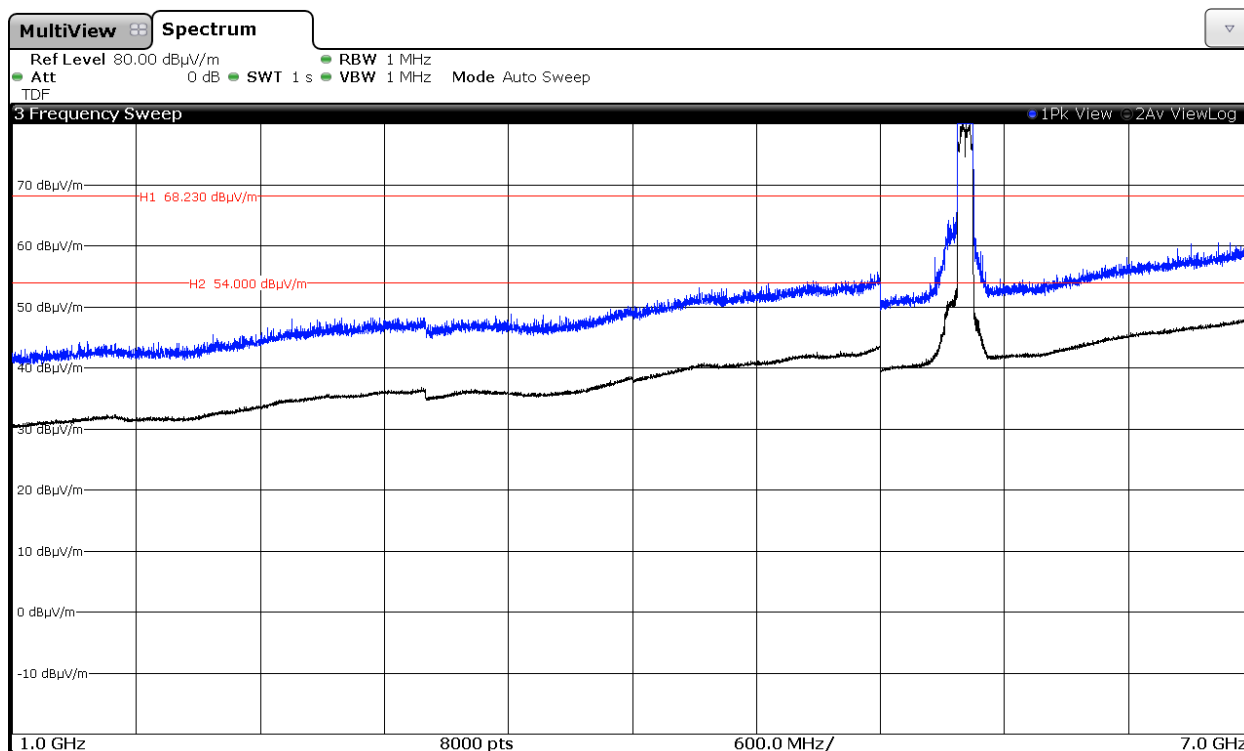
802.11ac40 mode: CH 142 5710 MHz.



Note: The peak above the limit is the carrier frequency. This plot is valid for both Chain A and Chain B, Chain A+B.

#### 4. WiFi 5GHz 802.11 ac80 mode

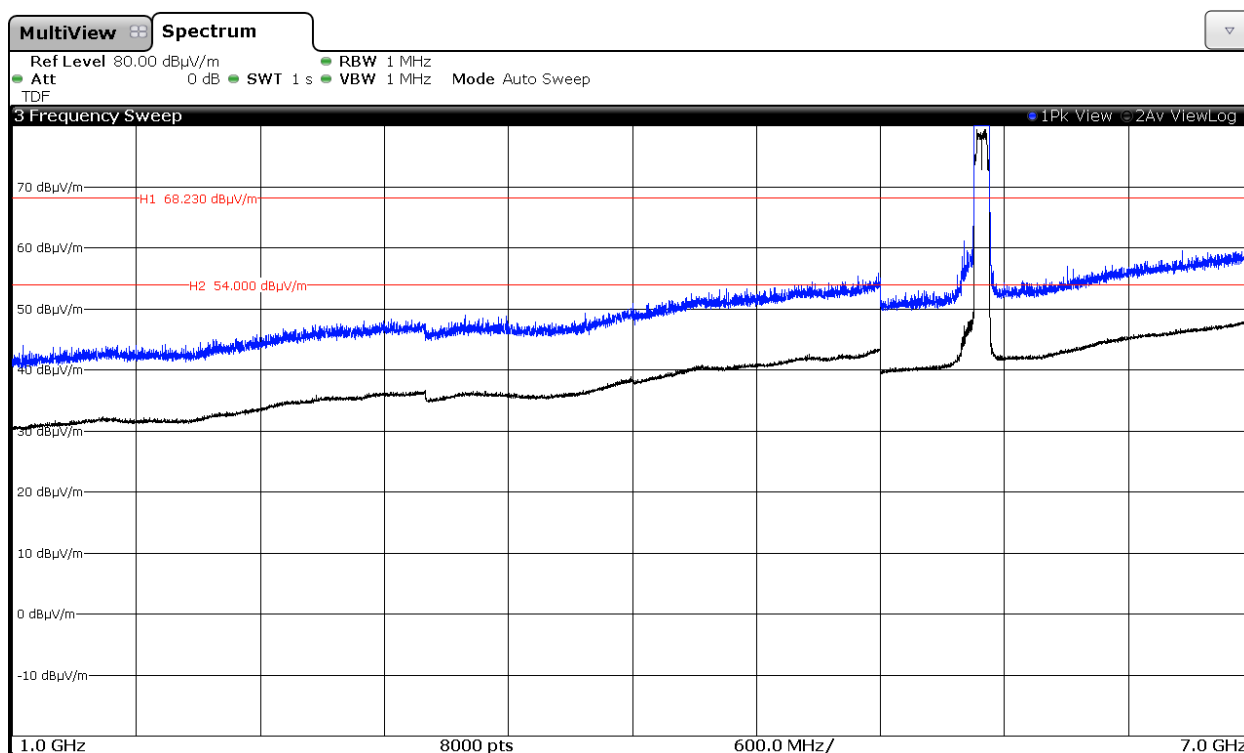
Middle frequency (122) 5610 MHz.



Note: The peak above the limit is the carrier frequency. This plot is valid for both Chain A and Chain B, Chain A+B.



802.11ac80 mode: CH 138 5690 MHz.



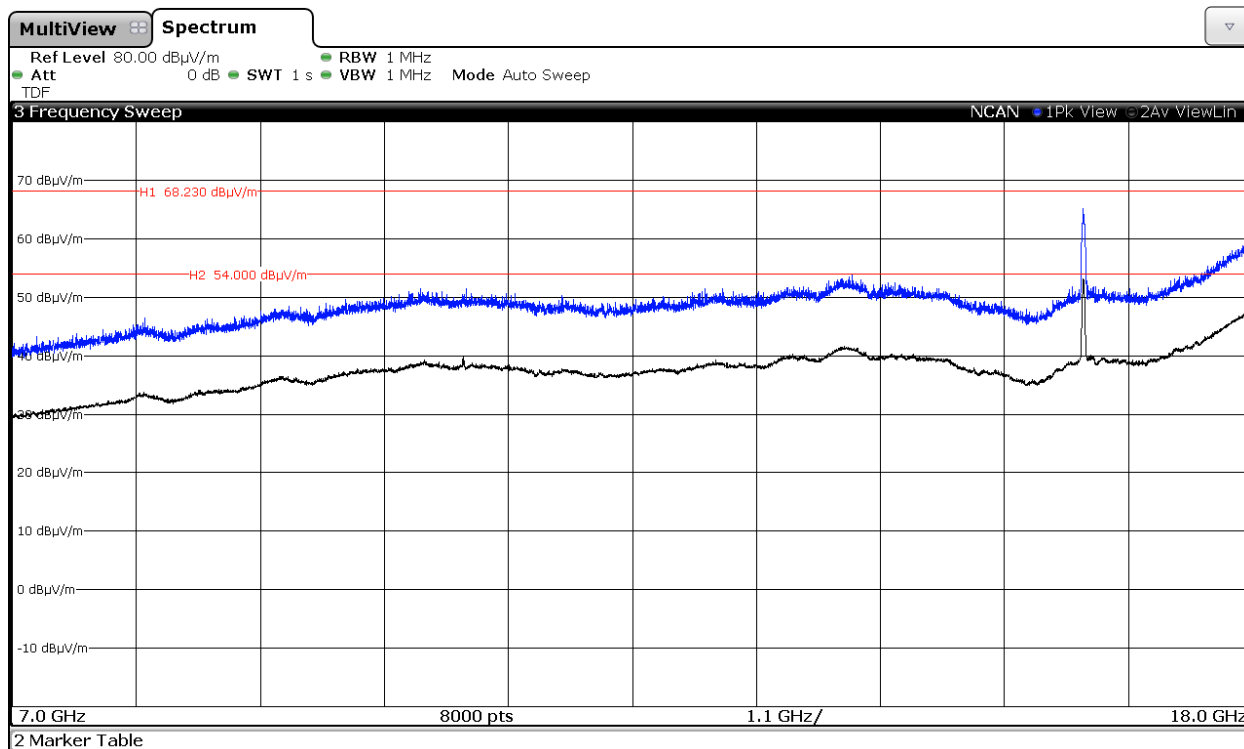
Note: The peak above the limit is the carrier frequency. This plot is valid for both Chain A and Chain B, Chain A+B.

## FREQUENCY RANGE 7 GHz to 18 GHz.

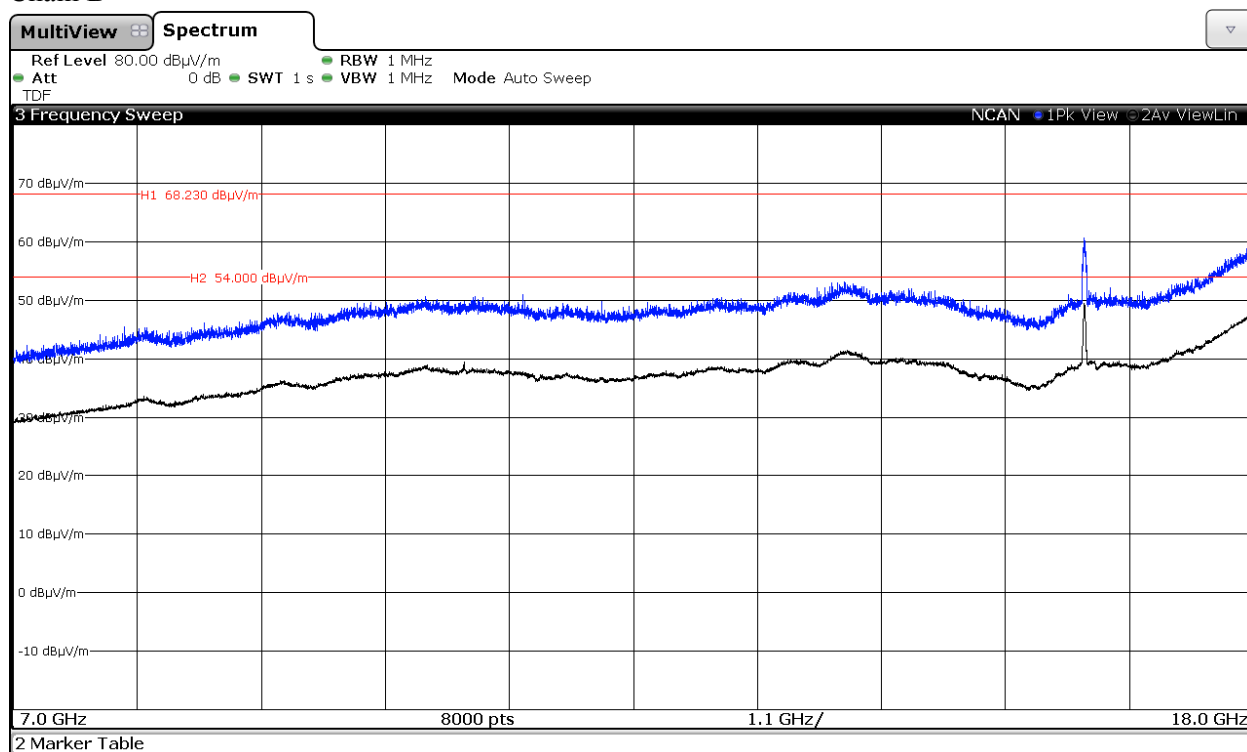
### 1. WiFi 5GHz 802.11 a mode

Lowest frequency (100) 5500 MHz.

Chain A

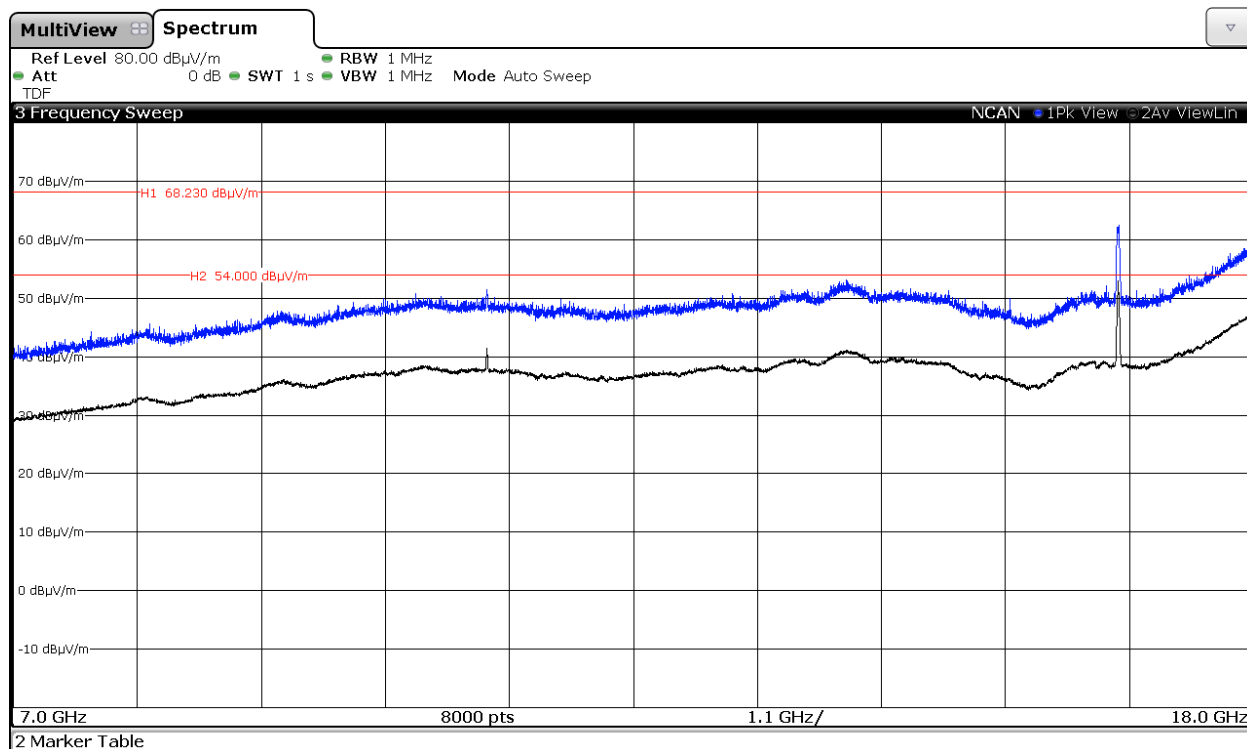


## Chain B

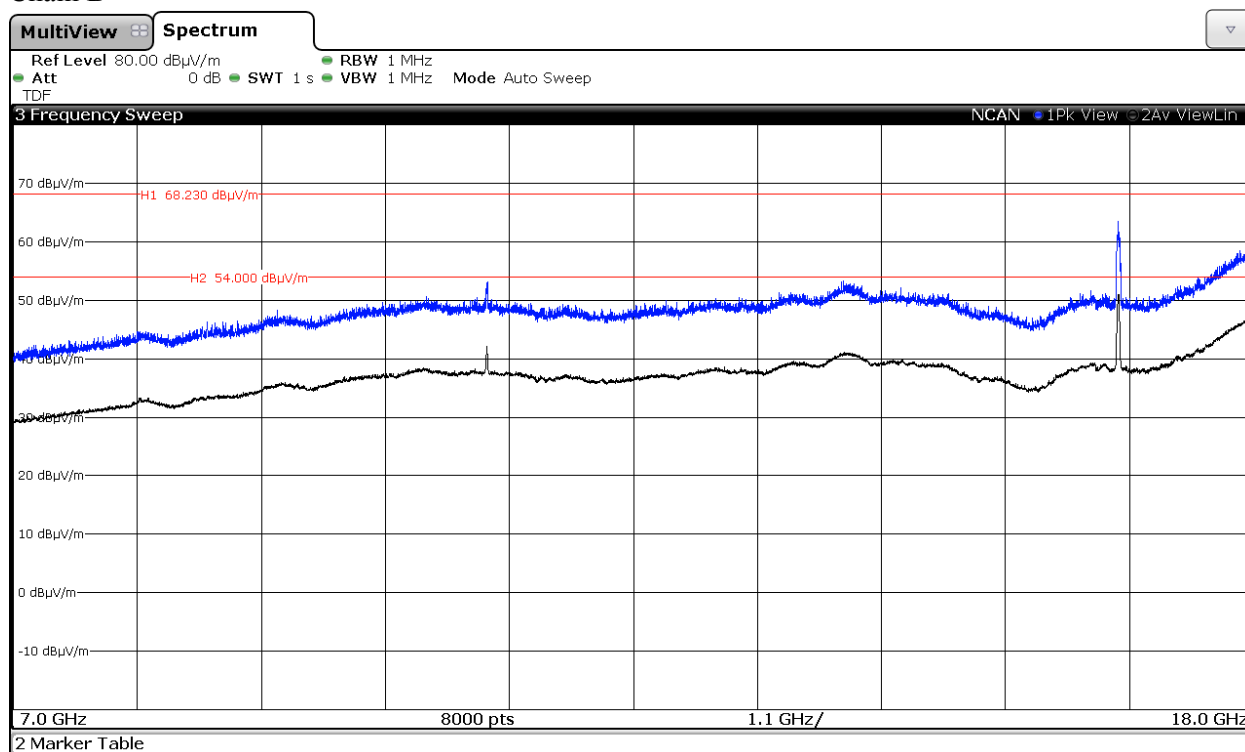


Middle frequency (120) 5600 MHz.

## Chain A

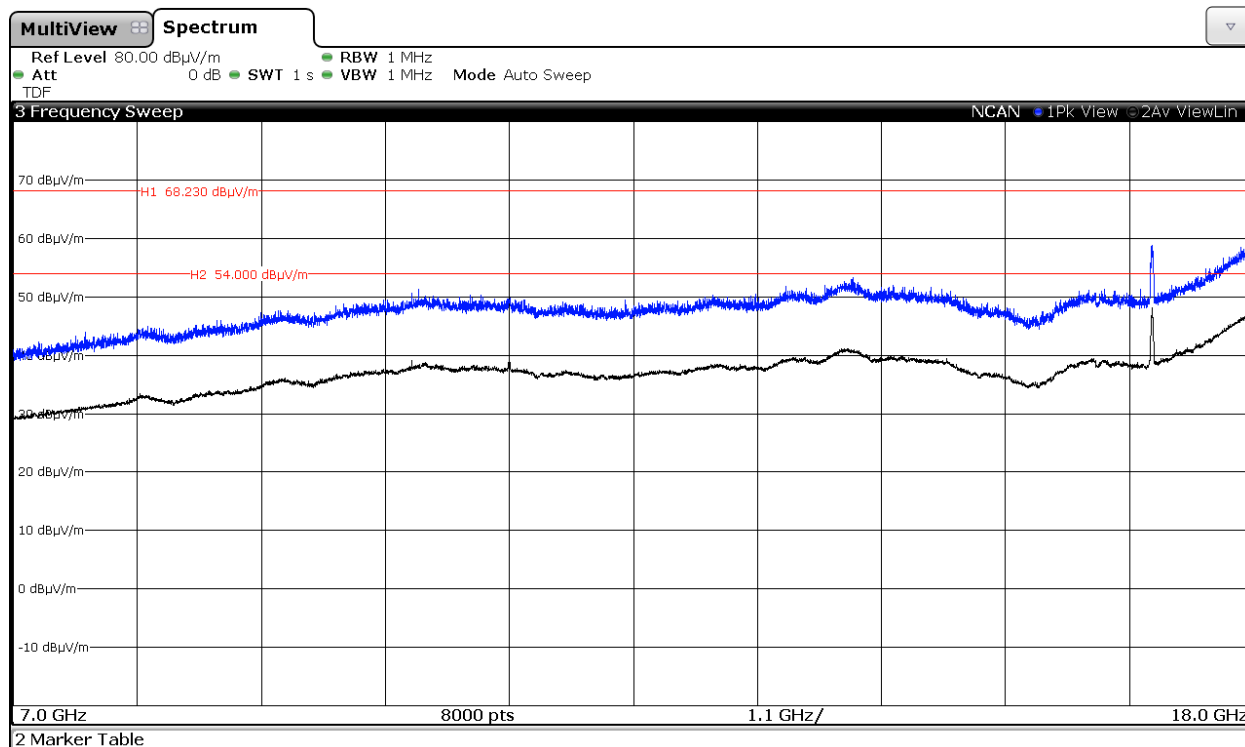


## Chain B

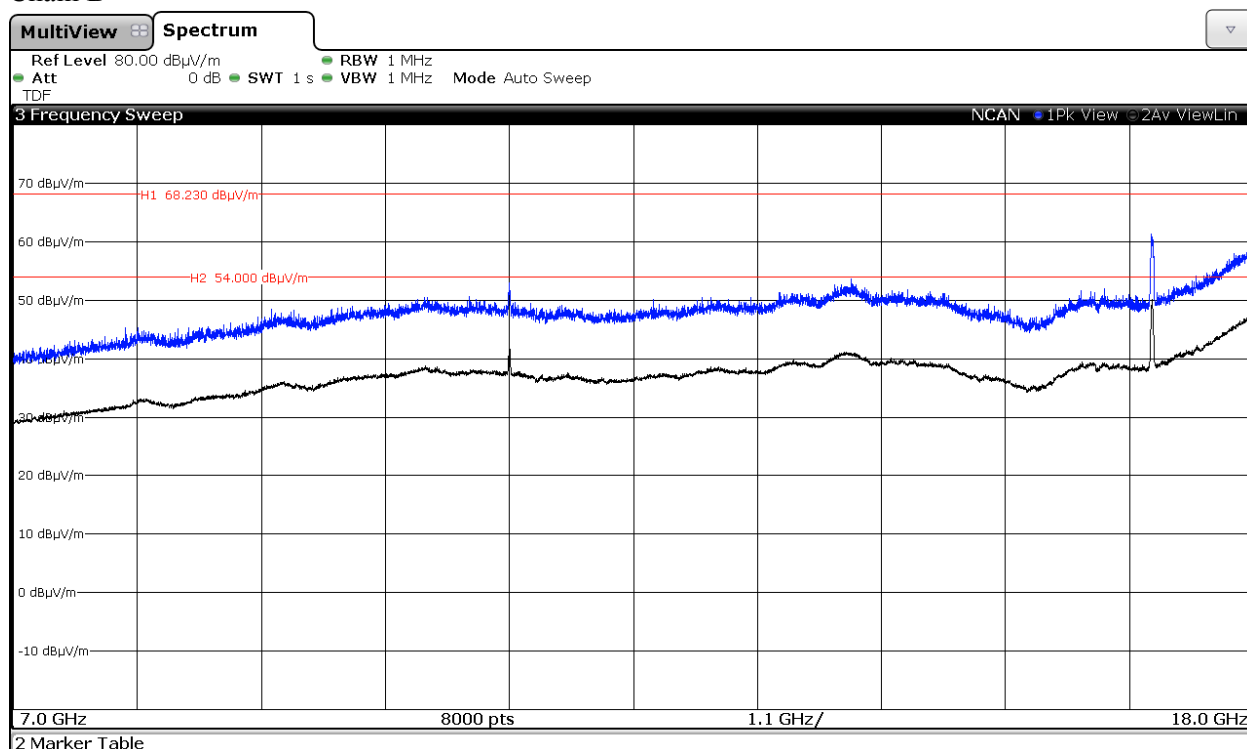


Highest frequency (140) 5700 MHz.

## Chain A



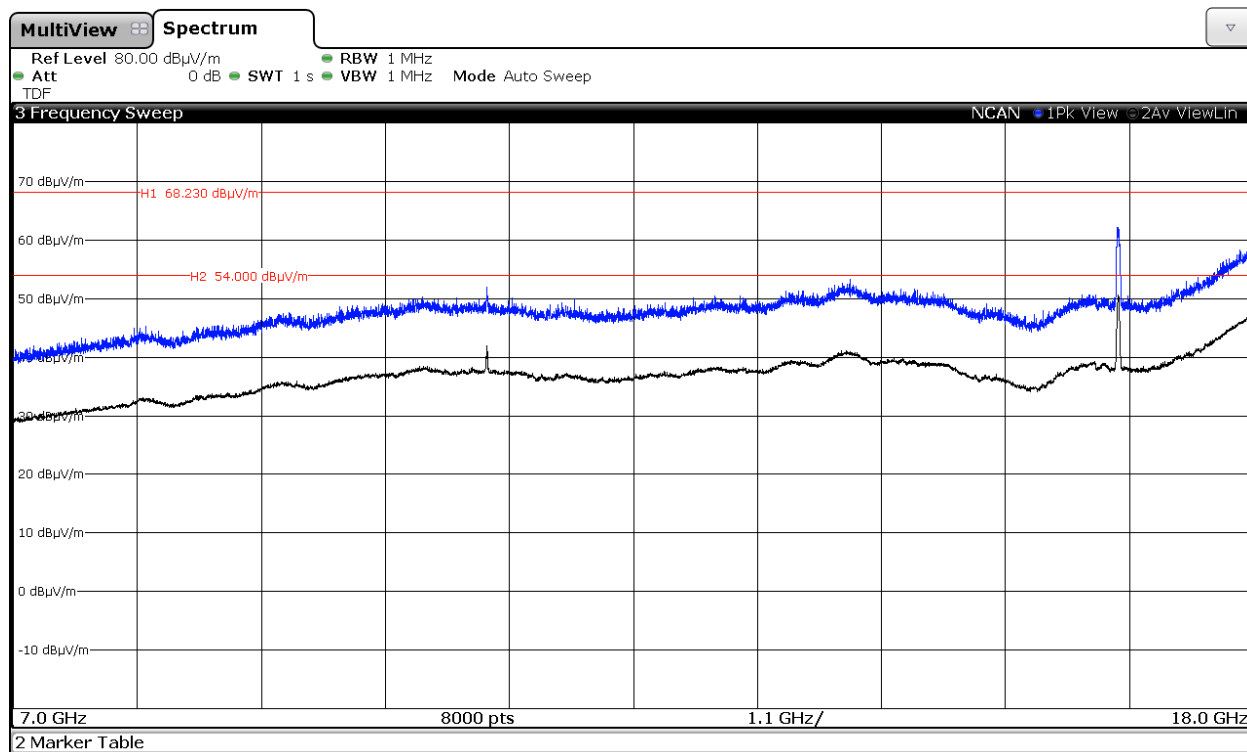
## Chain B



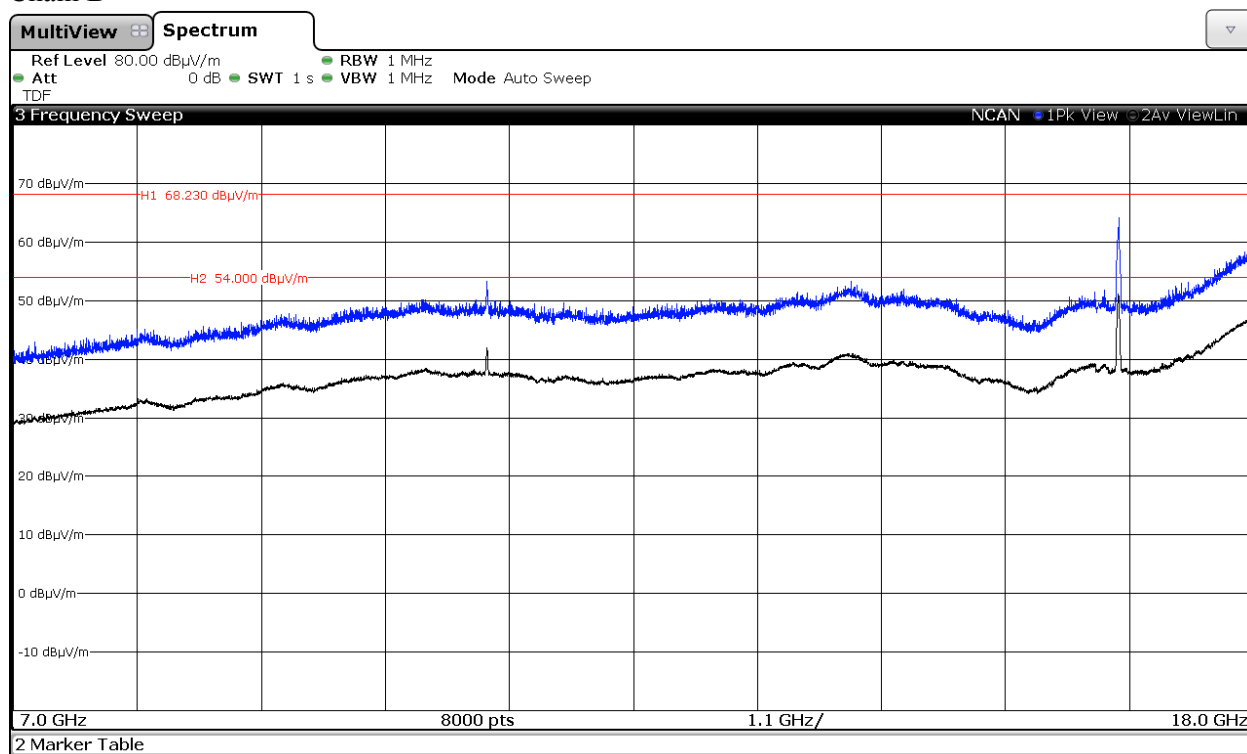
## 2. WiFi 5GHz 802.11 n20 mode

Middle frequency (120) 5600 MHz.

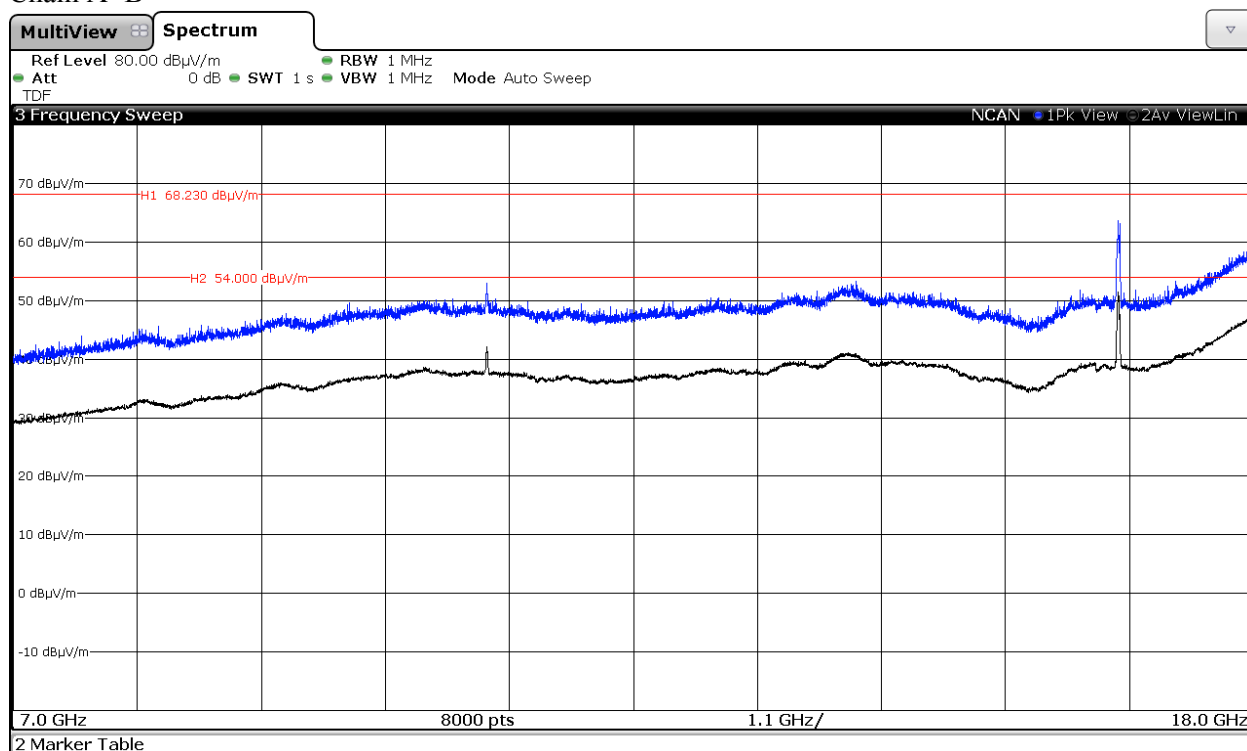
## Chain A



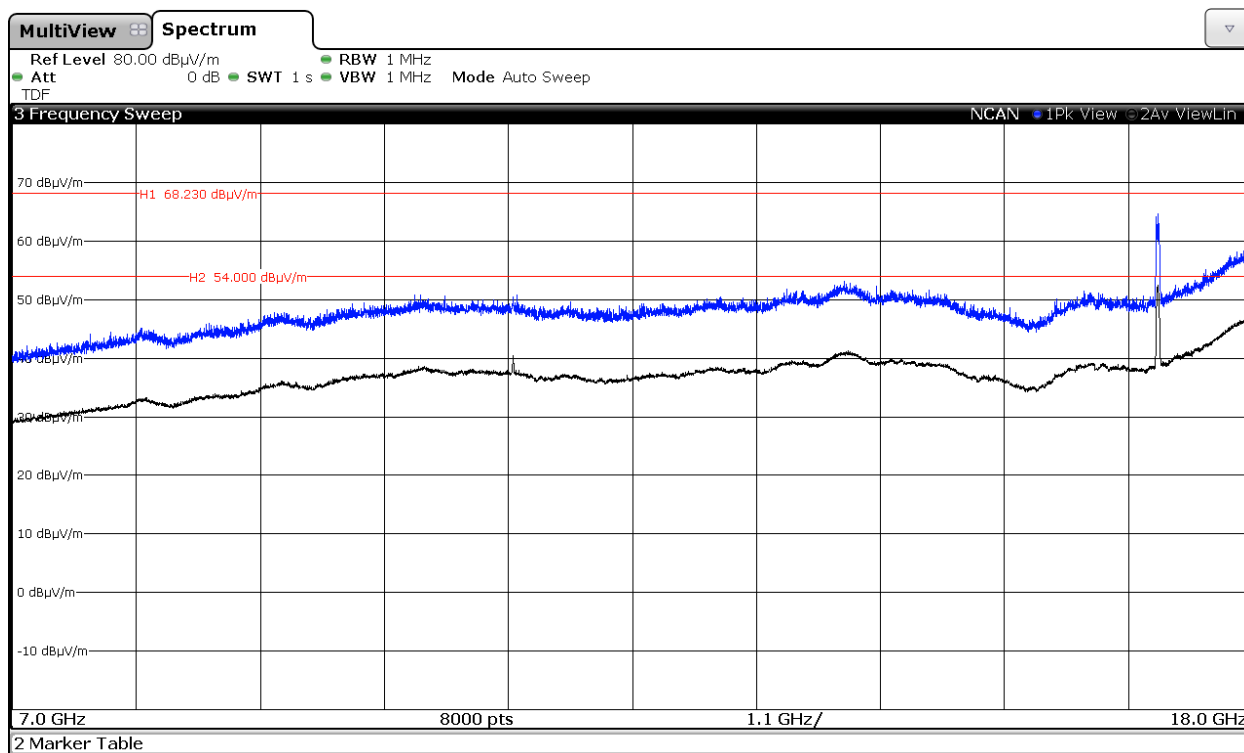
## Chain B



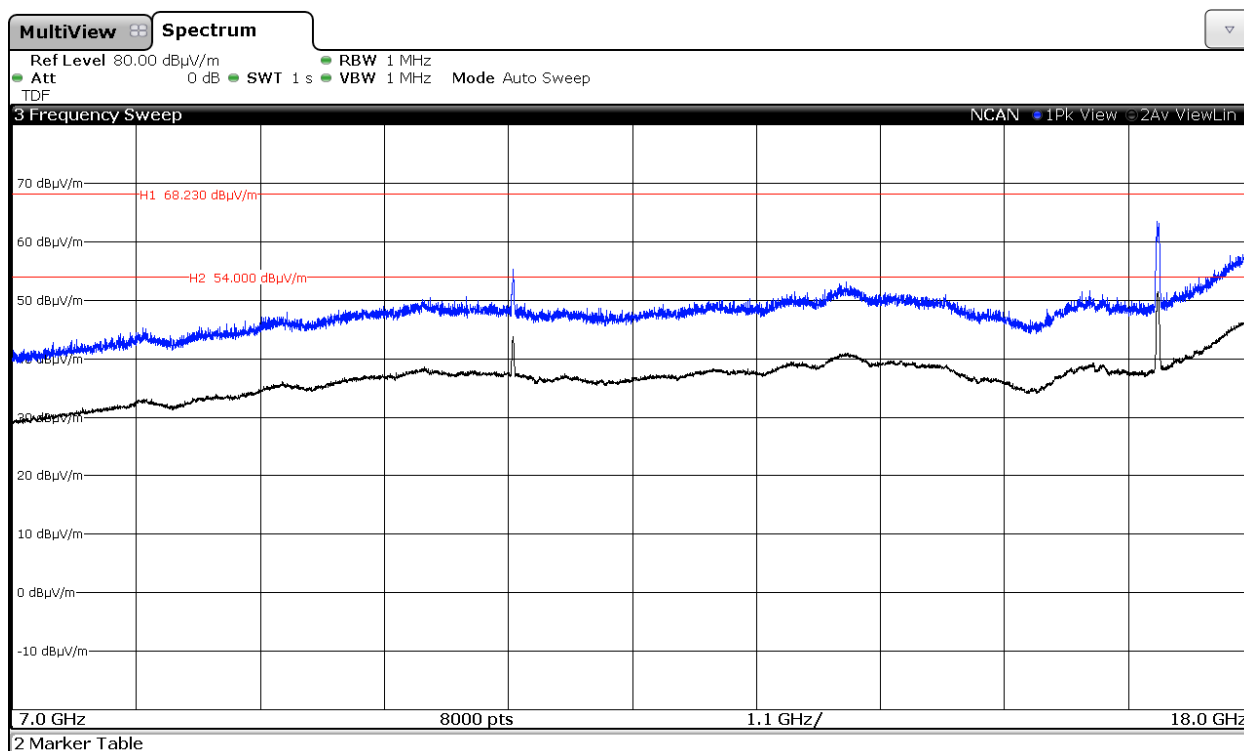
## Chain A+B



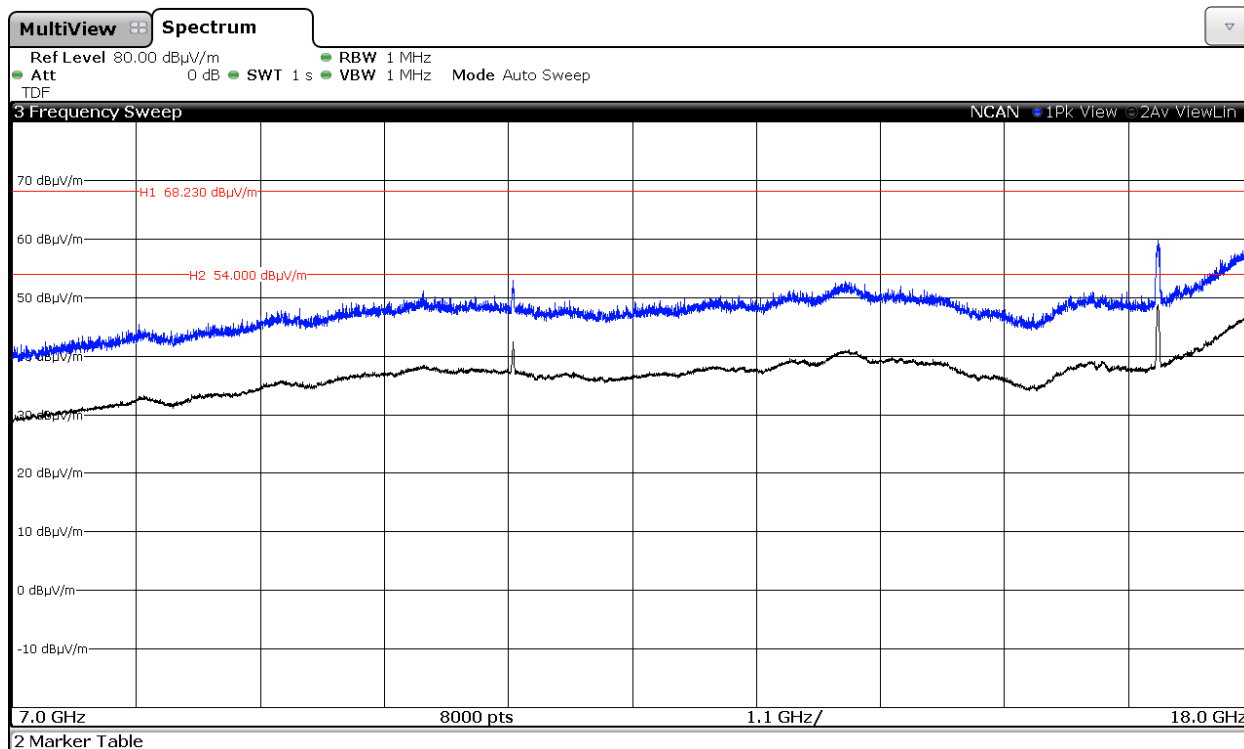
802.11ac20 mode: CH 144 (5720 MHz)  
Chain A



Chain B



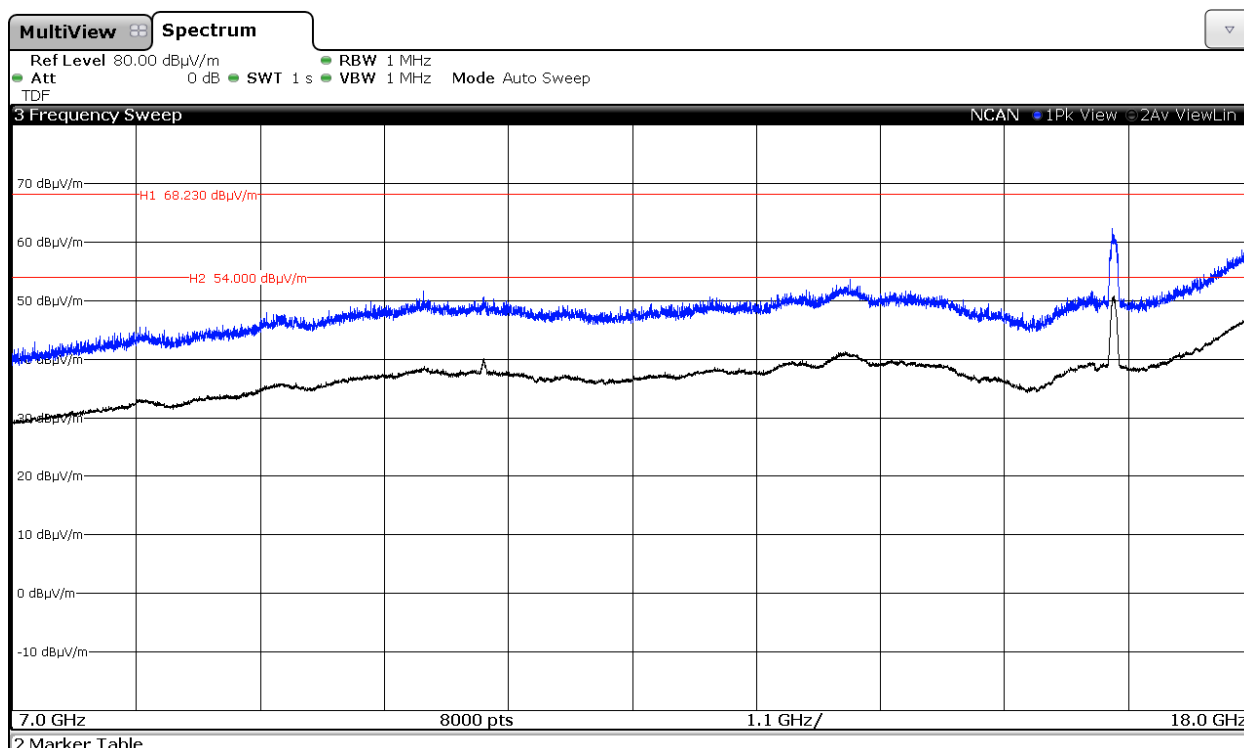
# Chain A+B



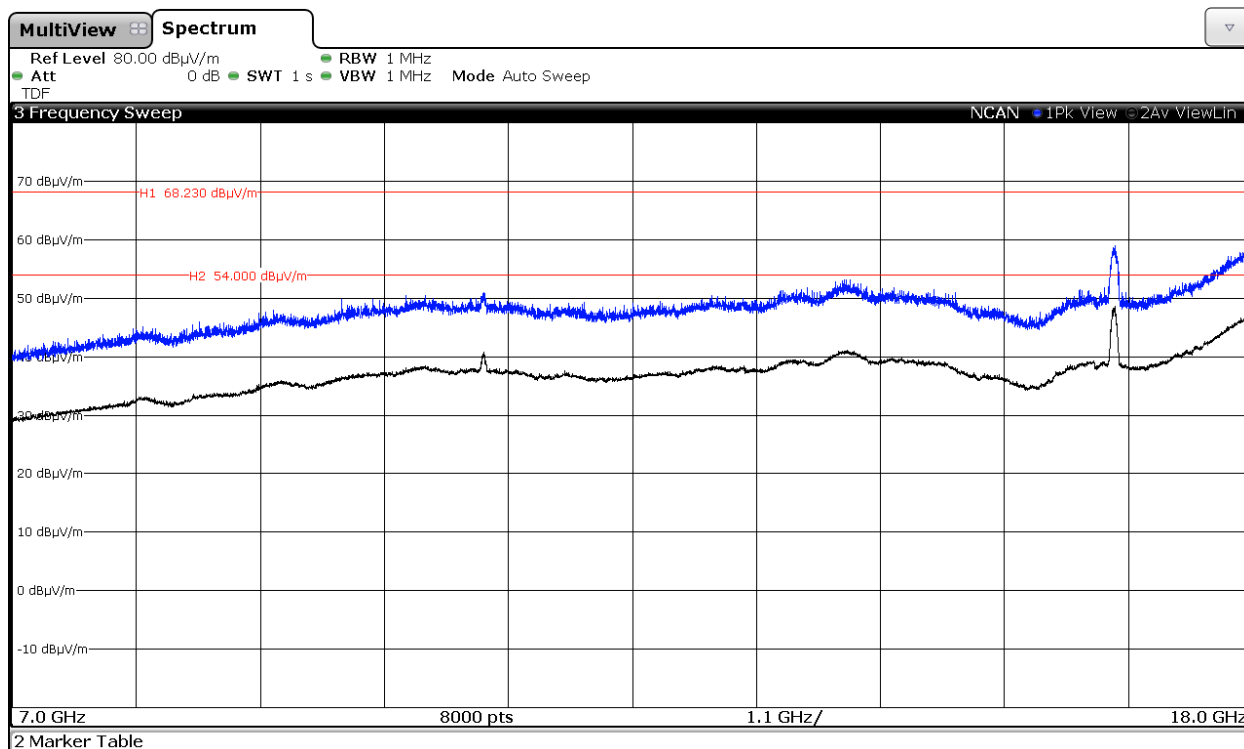
## 3. WiFi 5GHz 802.11 n40 mode

Middle frequency (118) 5590 MHz.

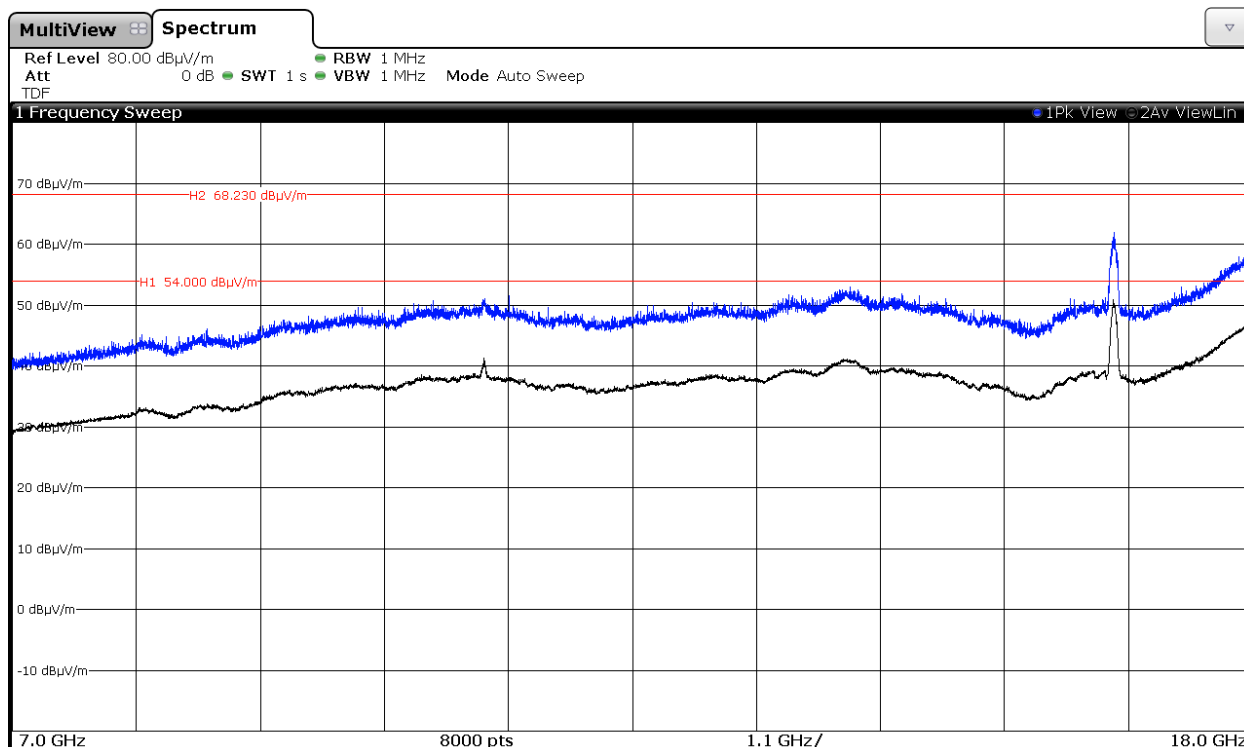
Chain A



## Chain B

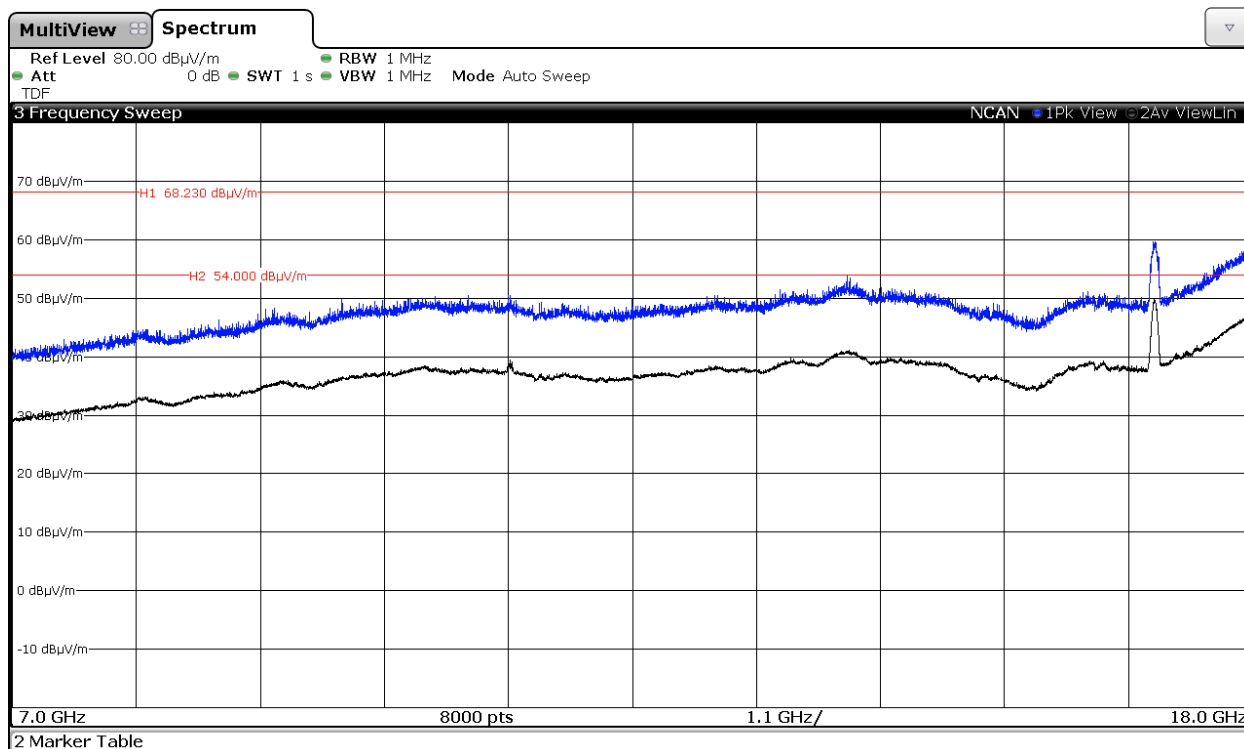


## Chain A+B

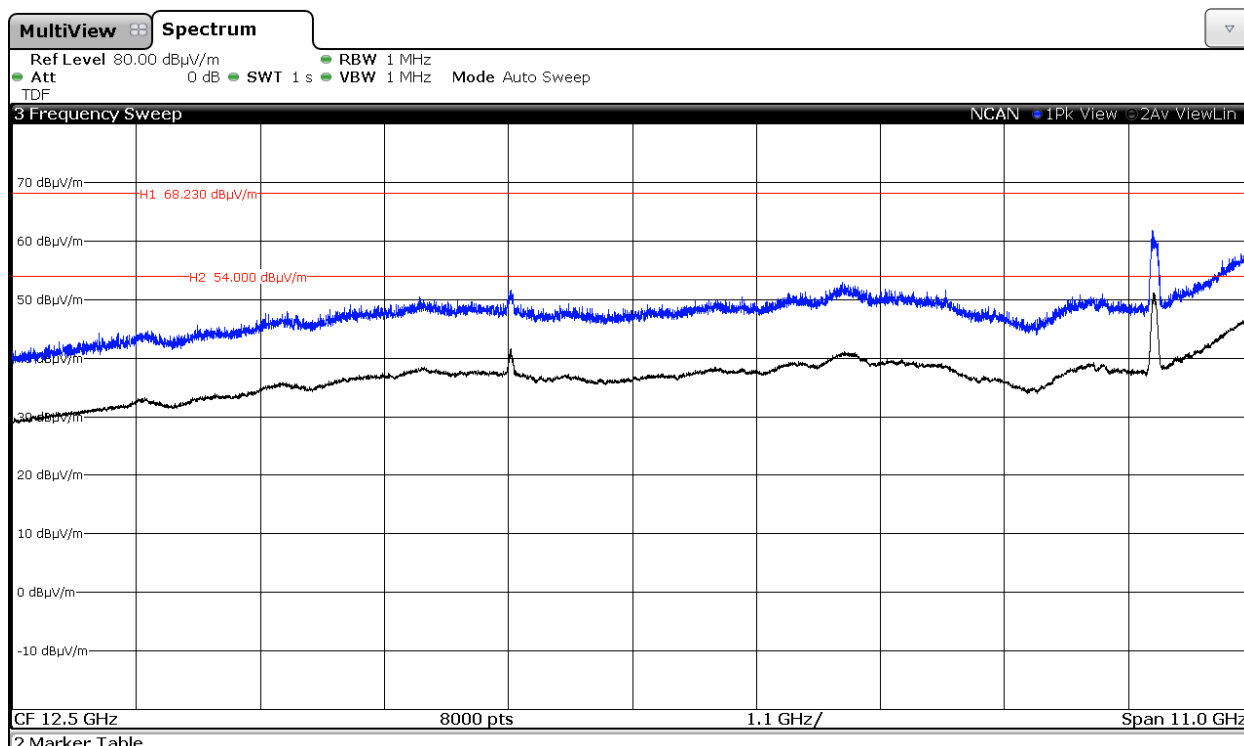




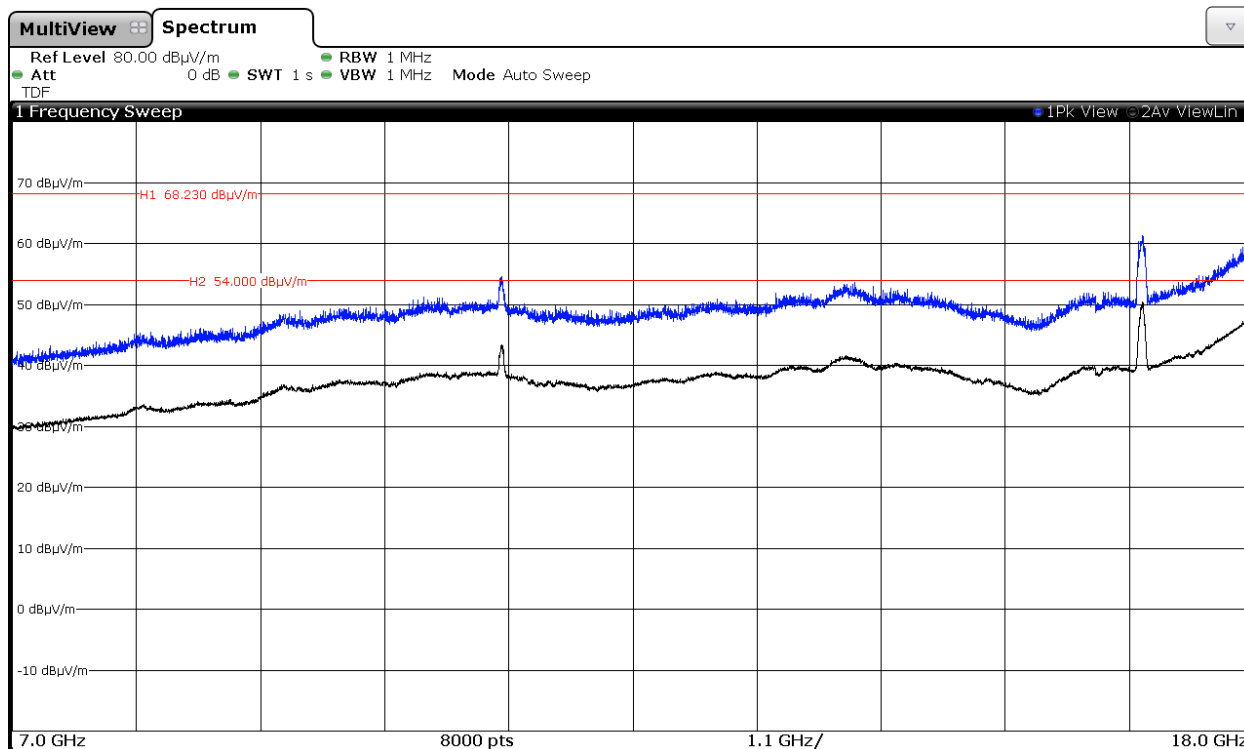
802.11ac40 mode: CH 142 (5710 MHz)  
Chain A



Chain B



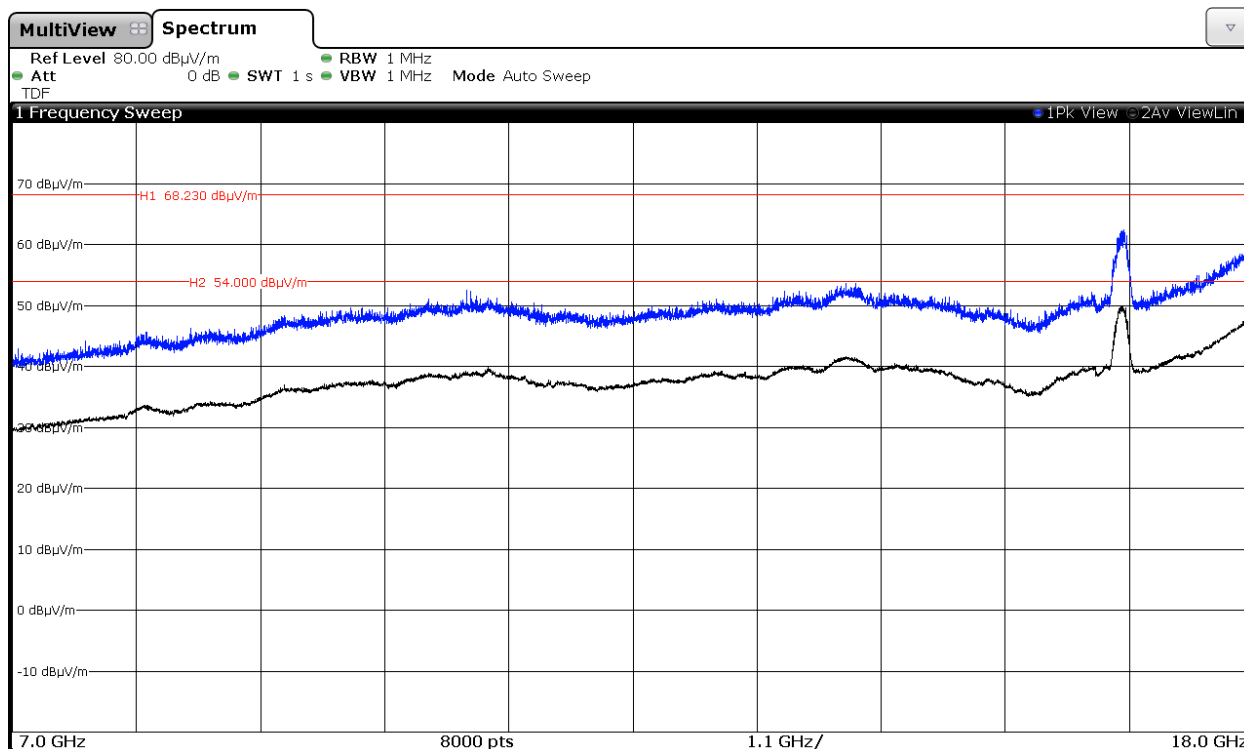
Chain A+B



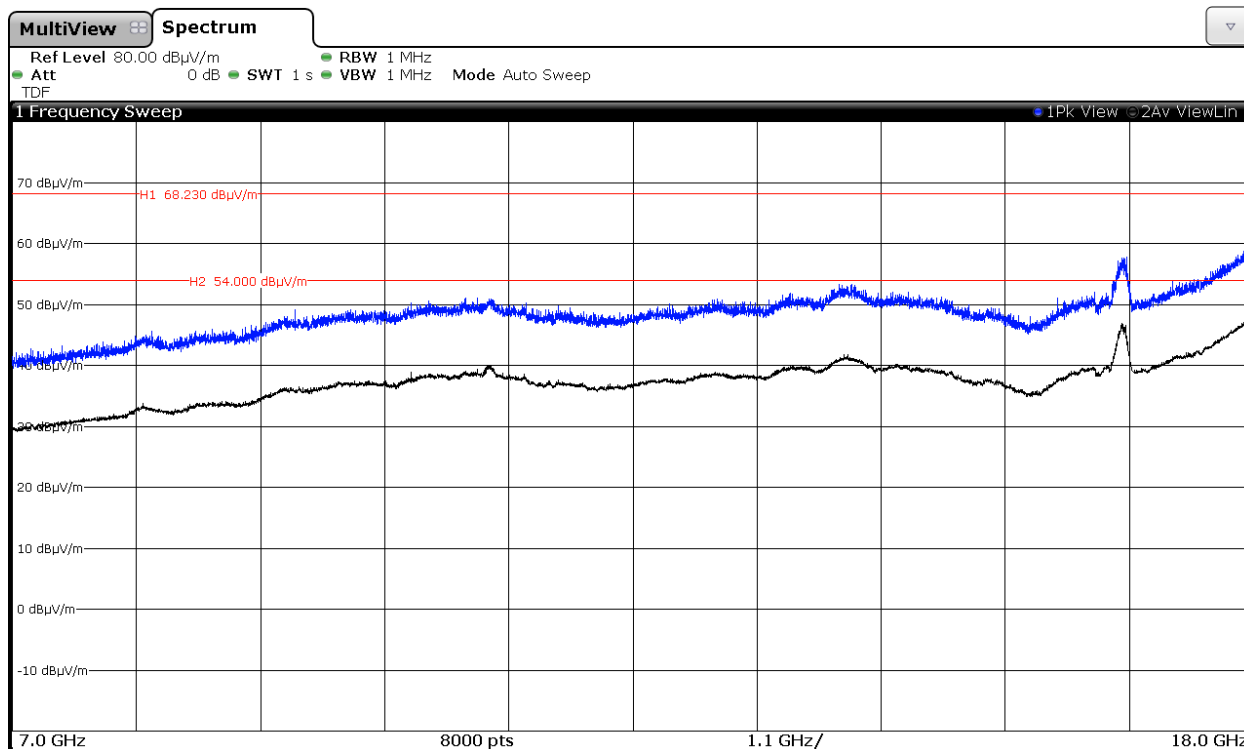
#### 4. WiFi 5GHz 802.11 ac80 mode

Middle frequency (122) 5610 MHz.

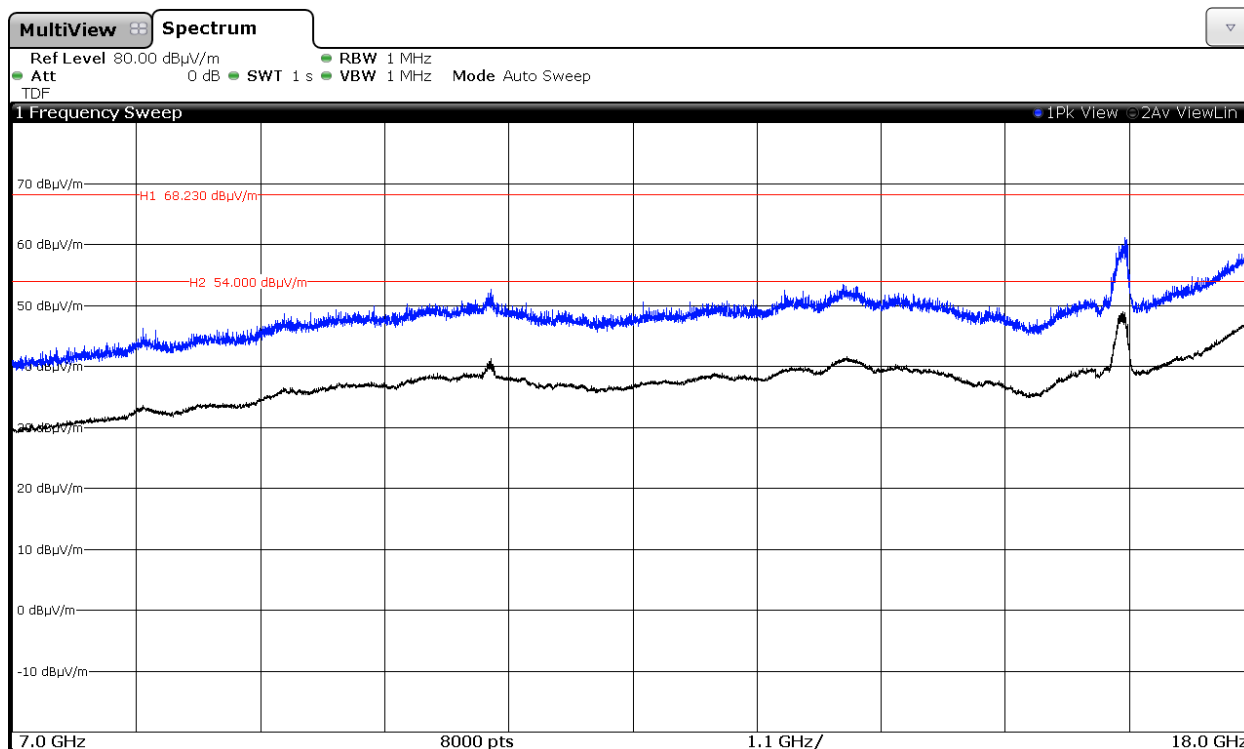
Chain A



## Chain B

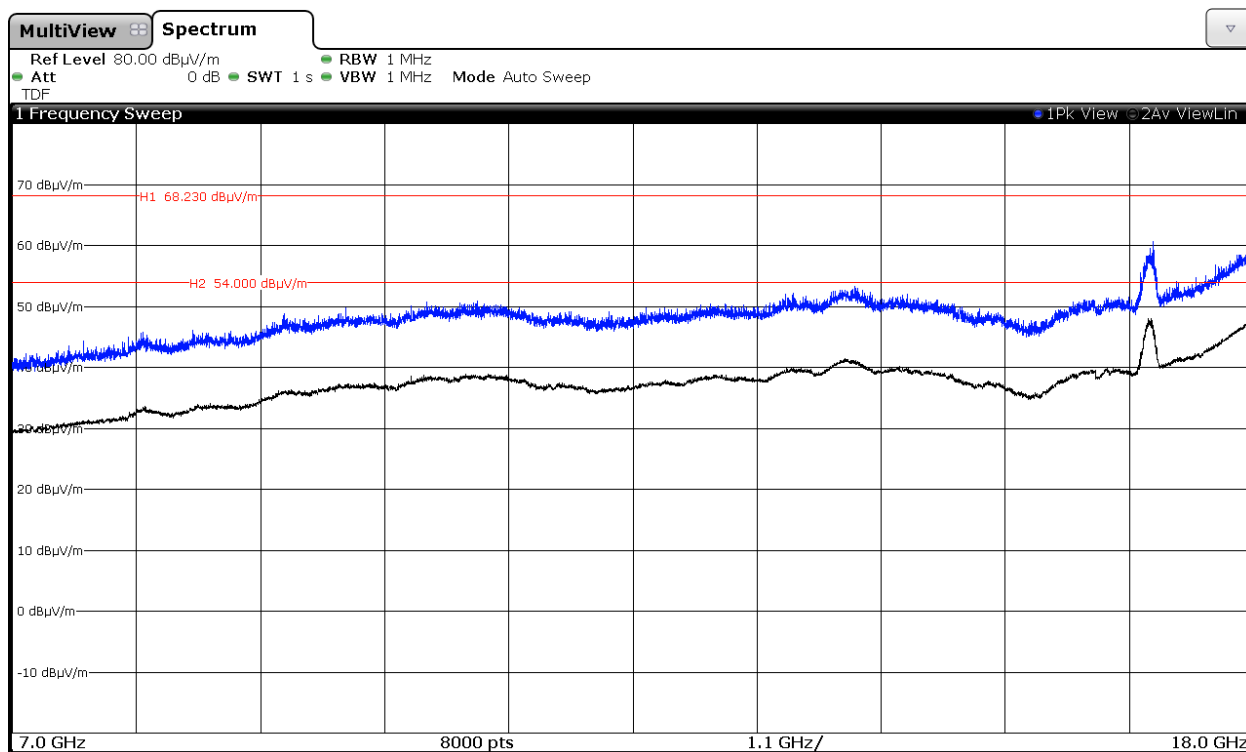


## Chain A+B

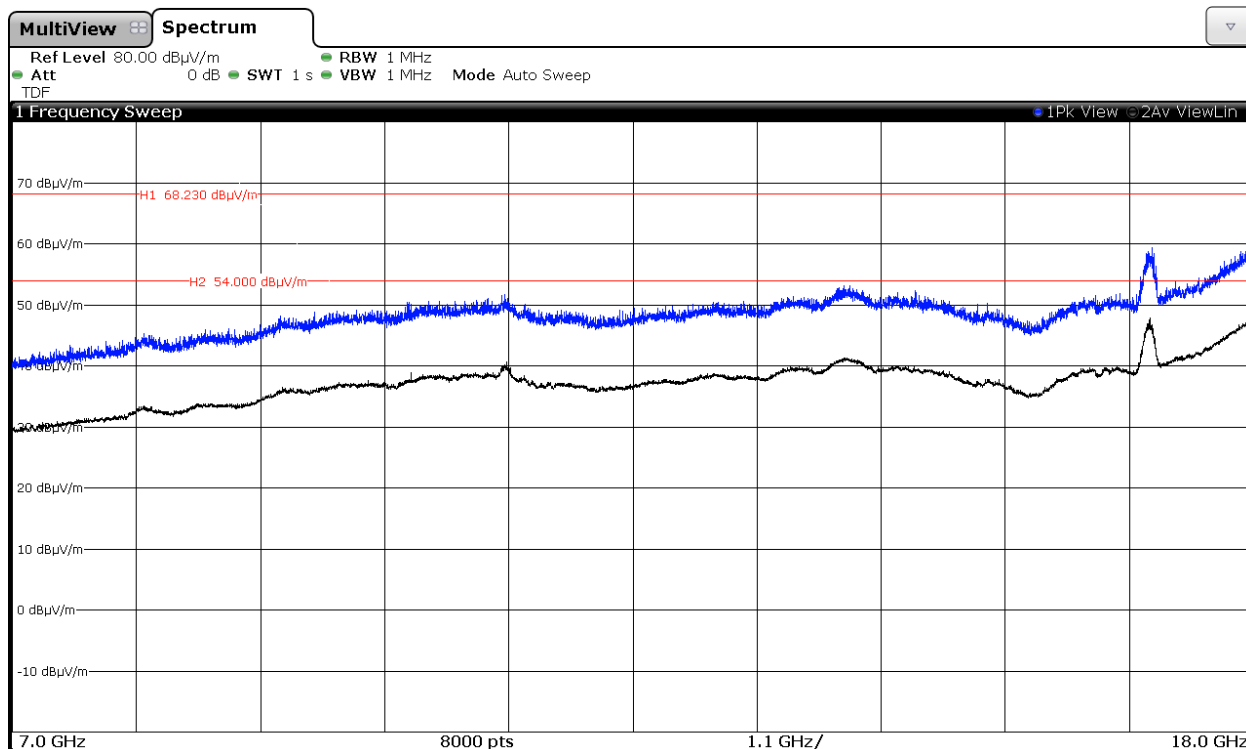


802.11ac80 mode: CH 138 (5690 MHz)

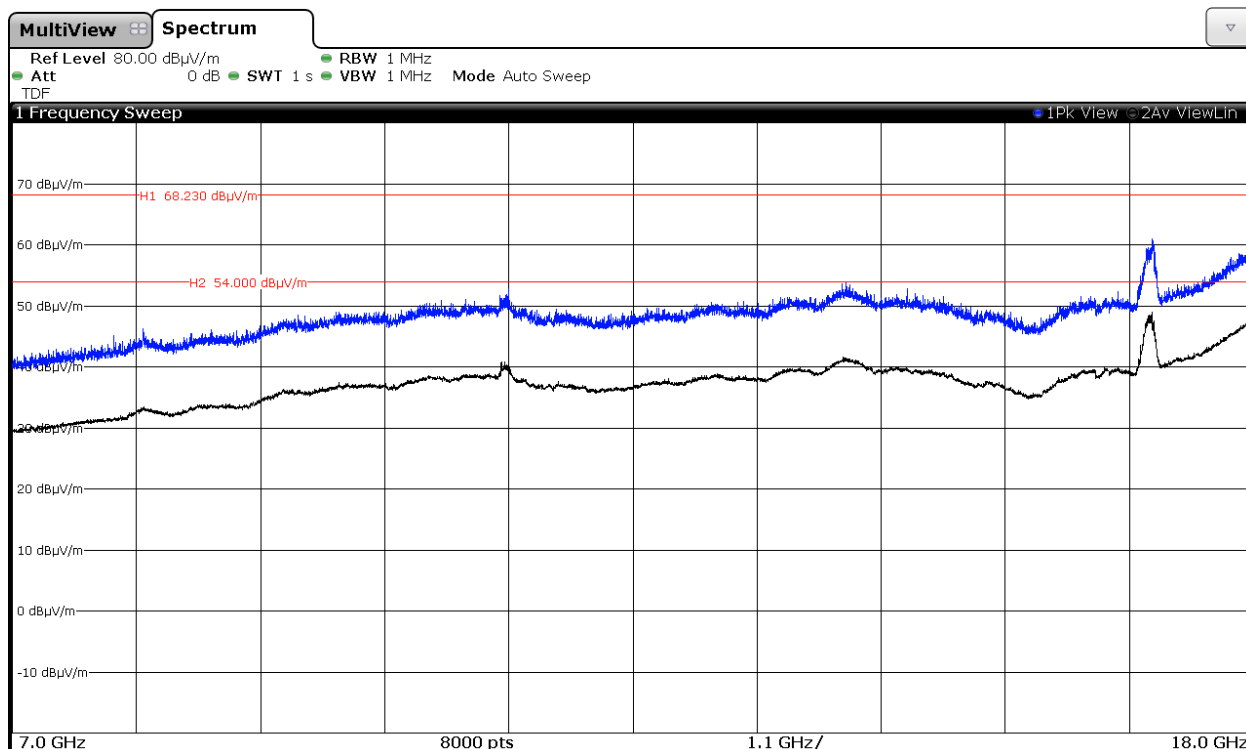
Chain A



Chain B



Chain A+B

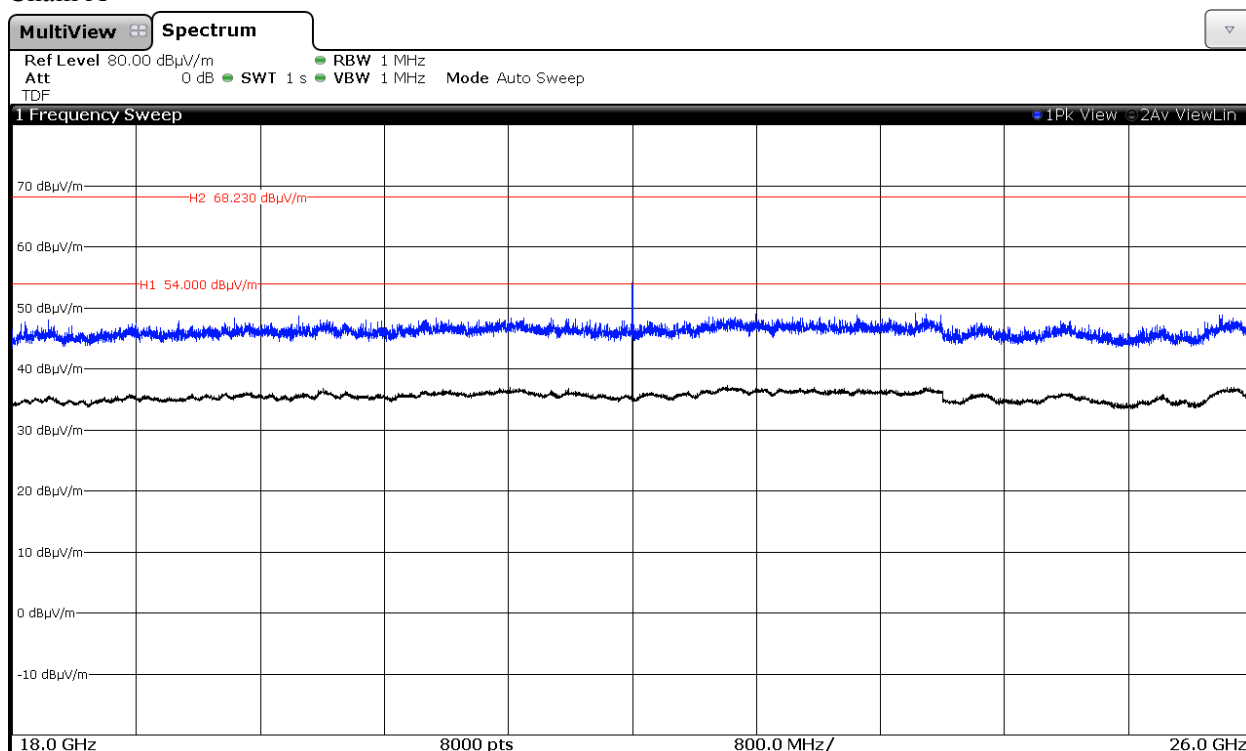


**FREQUENCY RANGE 18 GHz to 26 GHz.**

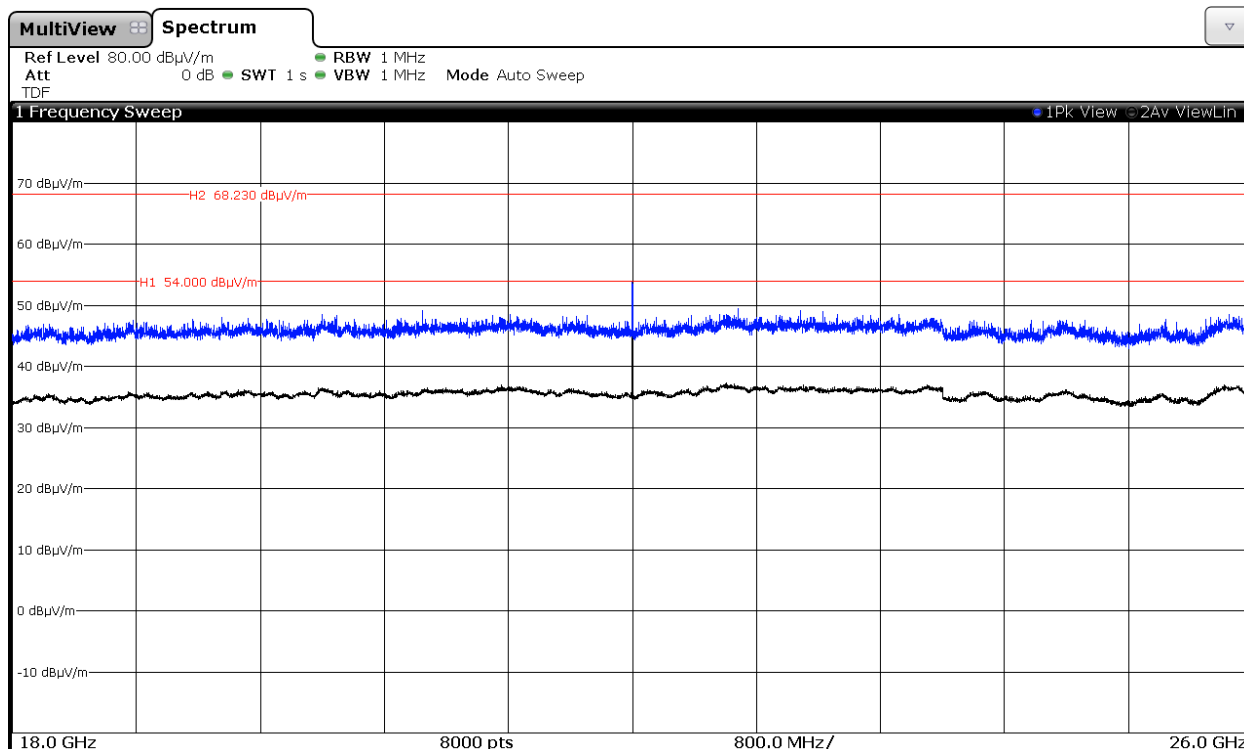
1. WiFi 5GHz 802.11 a mode

Lowest frequency (100) 5500 MHz.

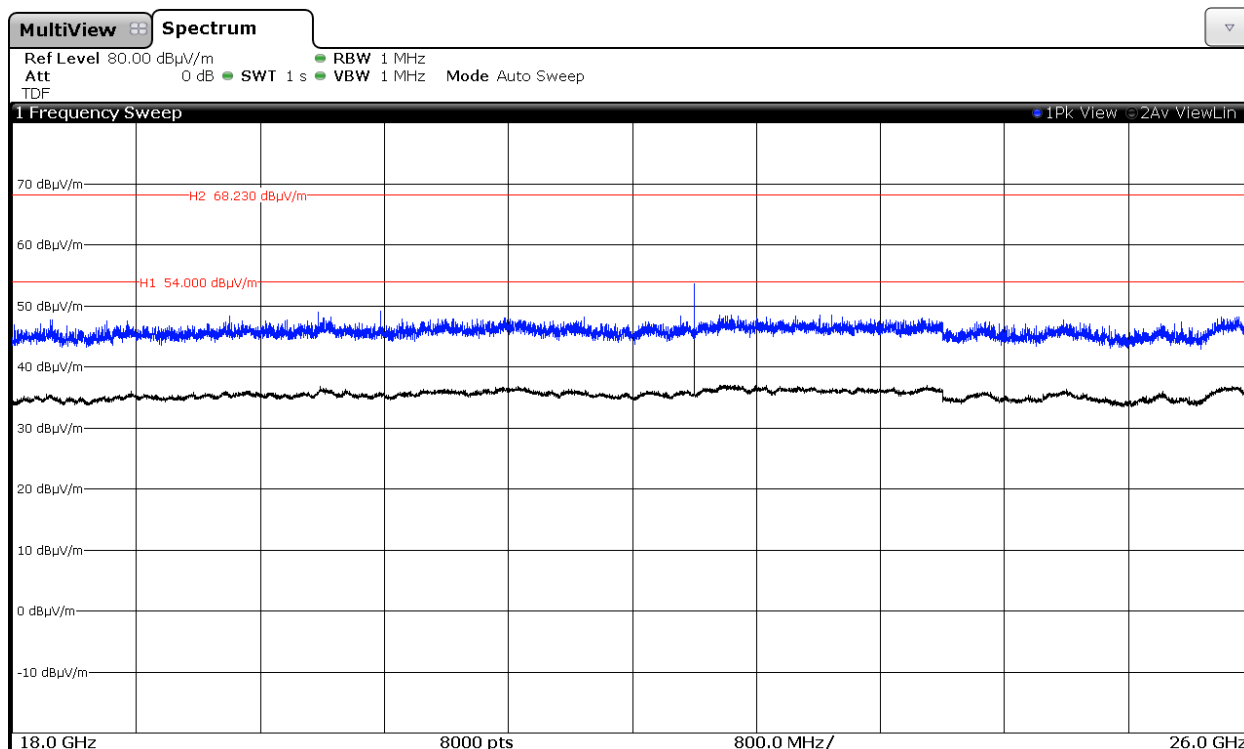
Chain A



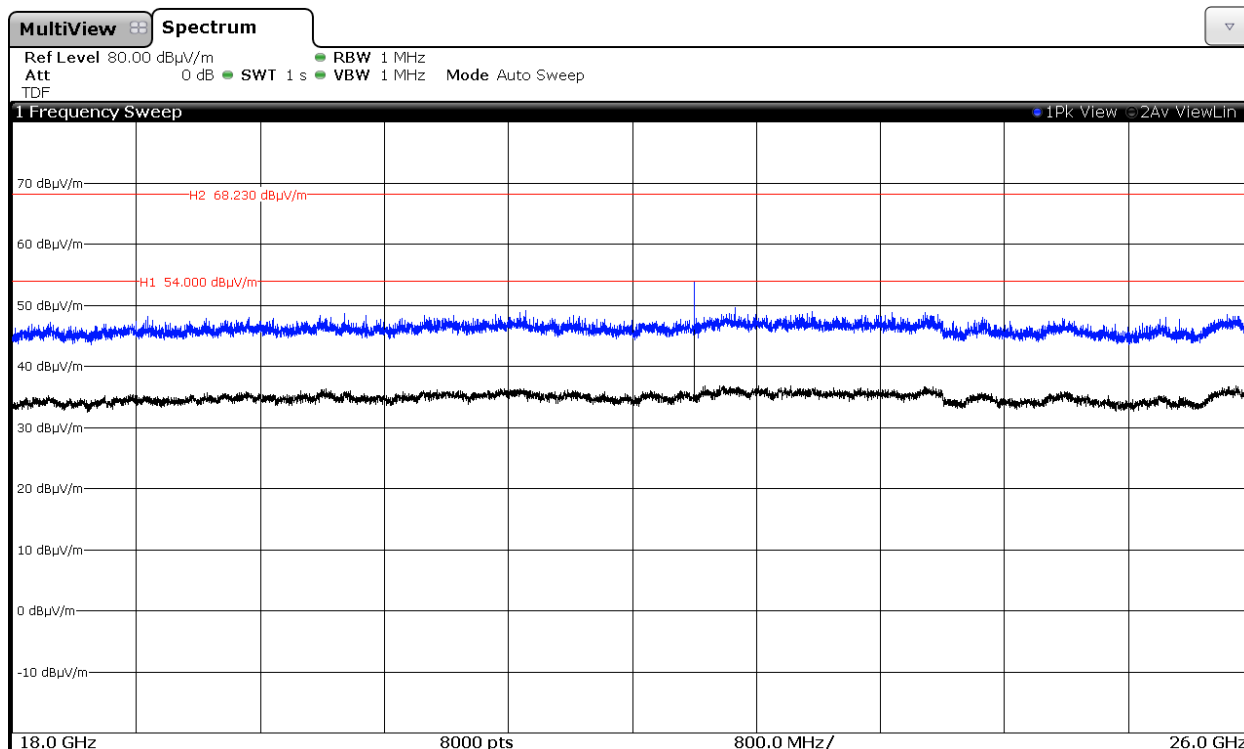
## Chain B



## Middle frequency (120) 5600 MHz. Chain A

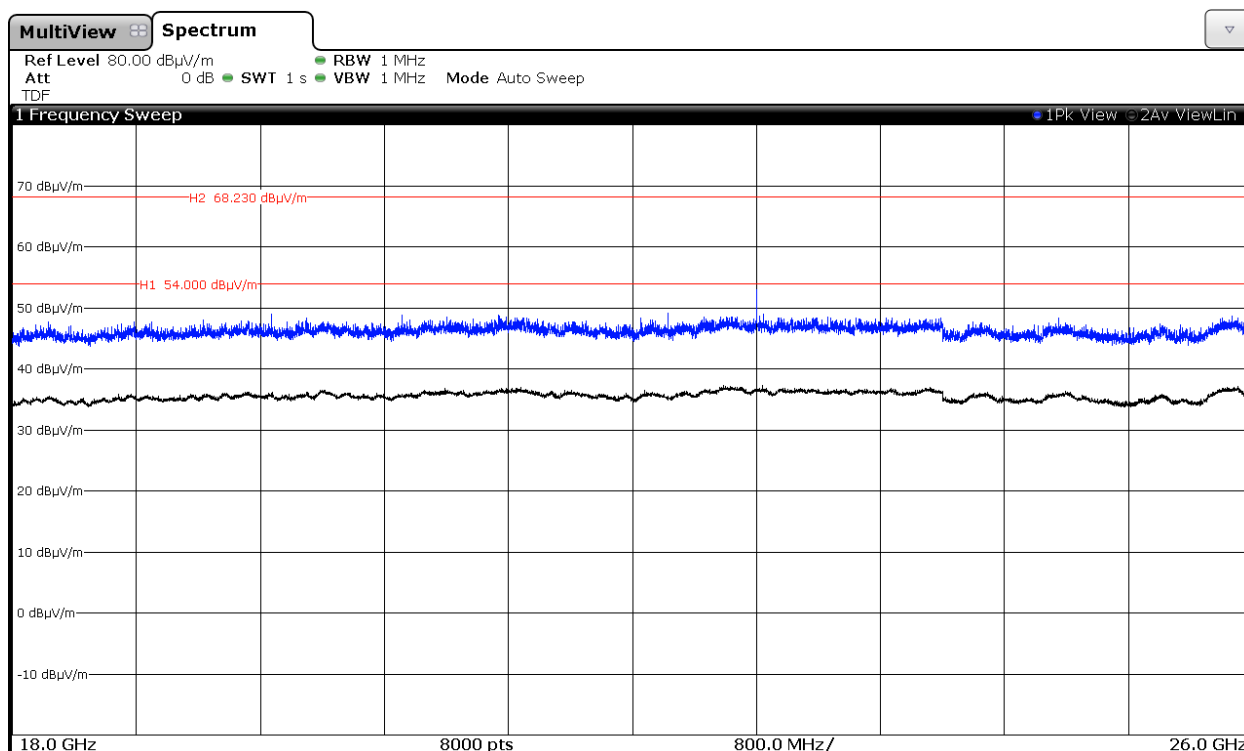


## Chain B

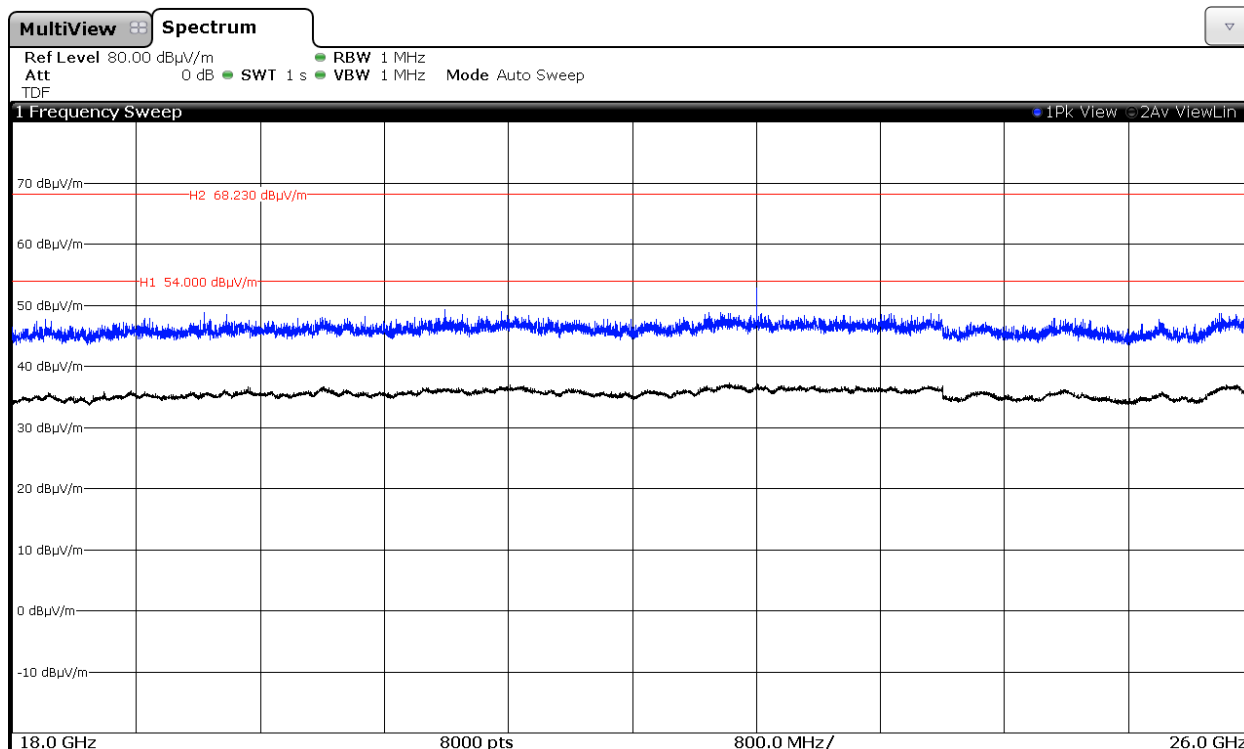


Highest frequency (140) 5700 MHz.

## Chain A



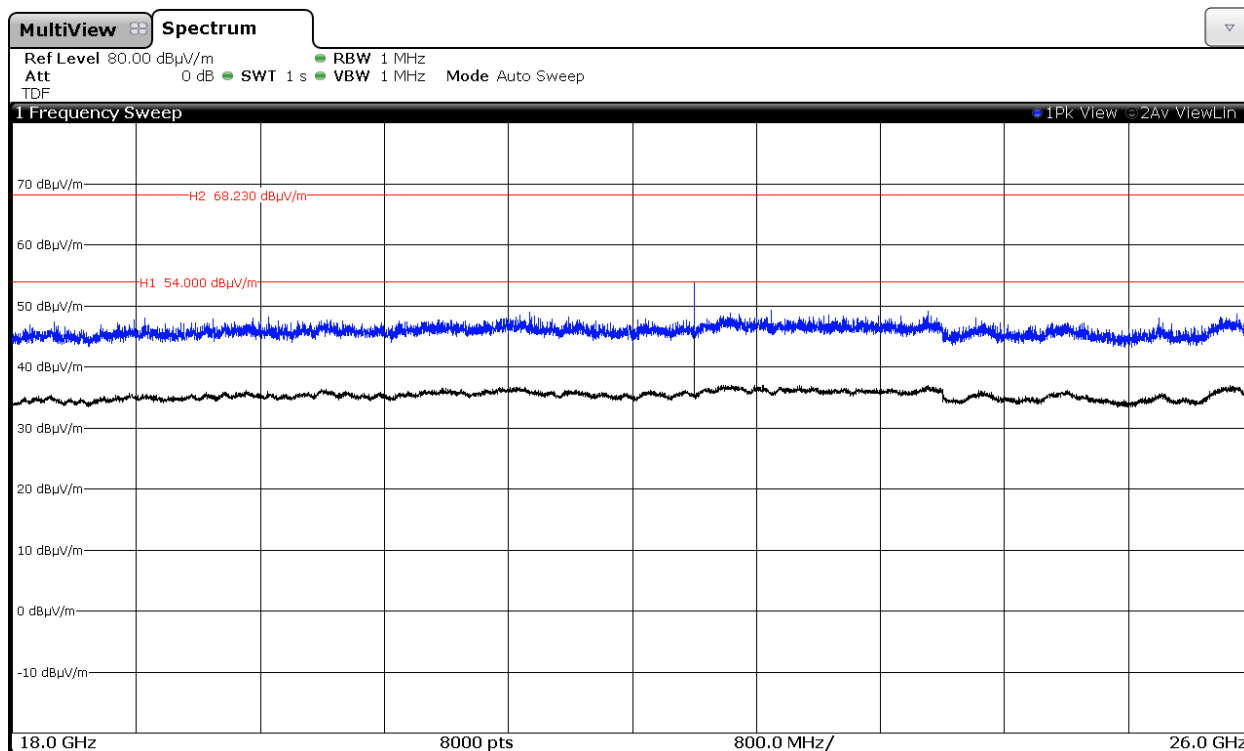
## Chain B



## 2. WiFi 5GHz 802.11 n20 mode

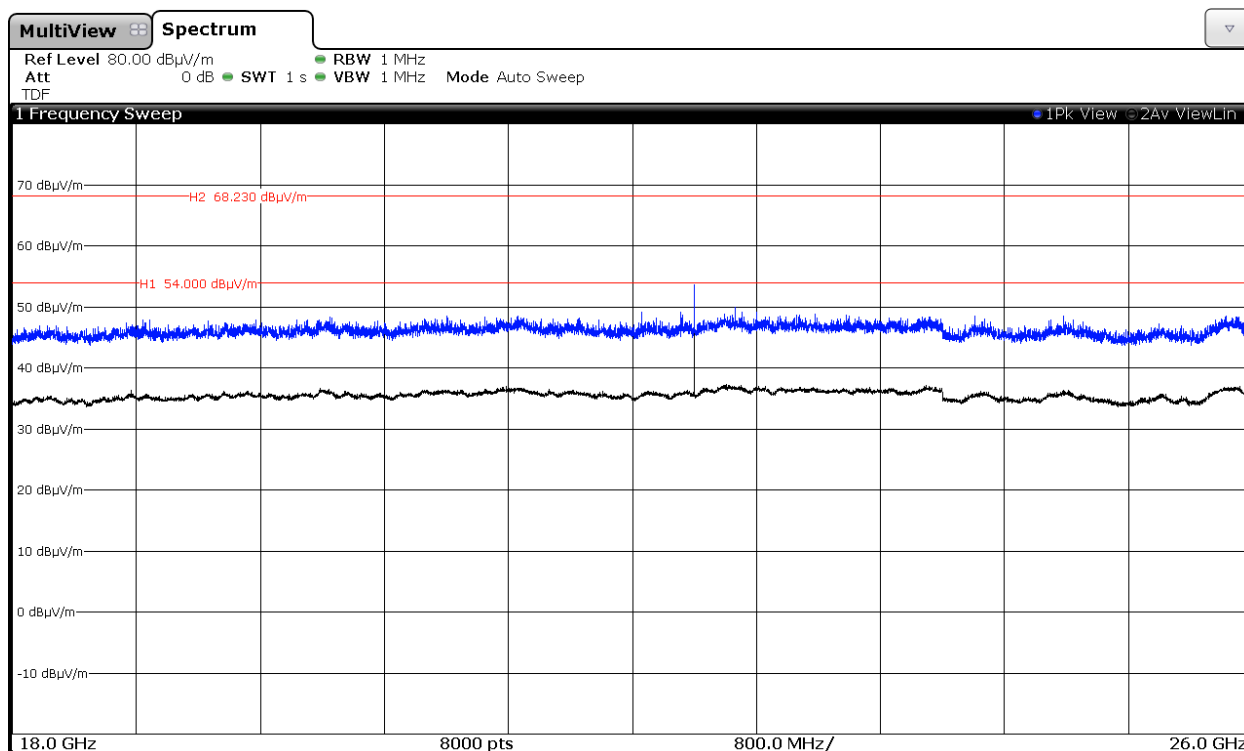
Middle frequency (120) 5600 MHz.

## Chain A

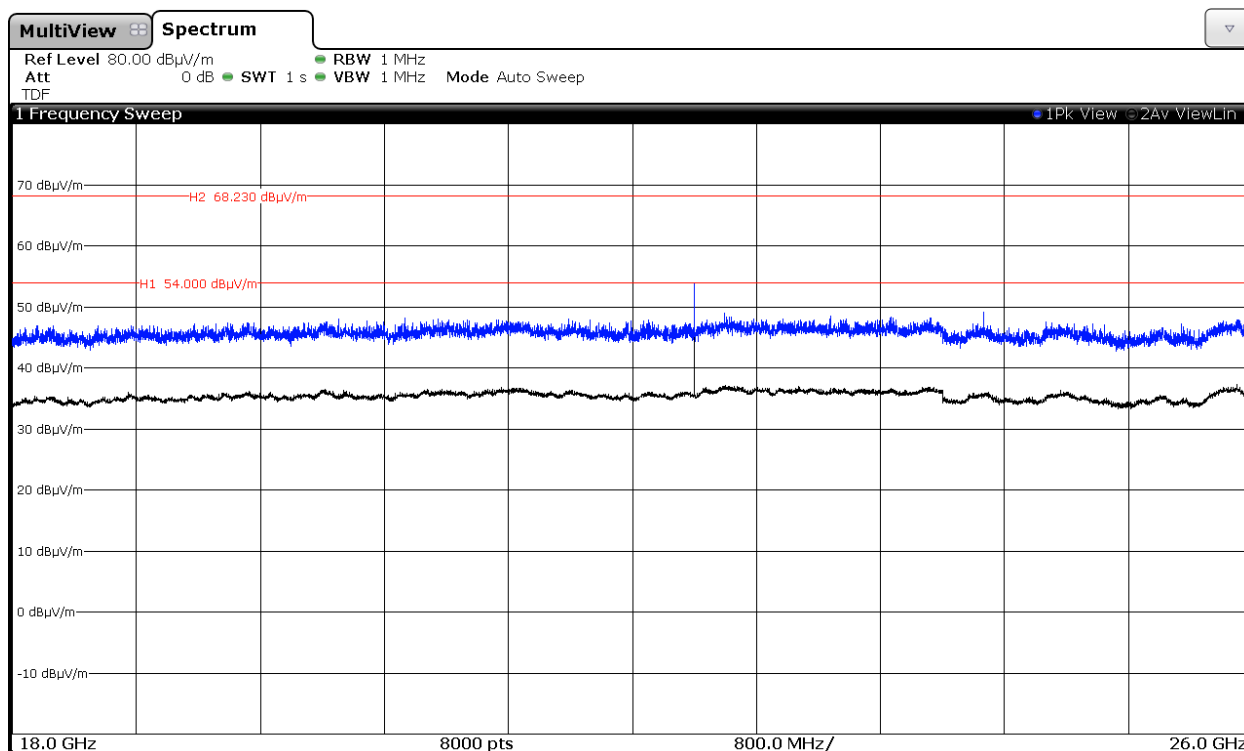




## Chain B

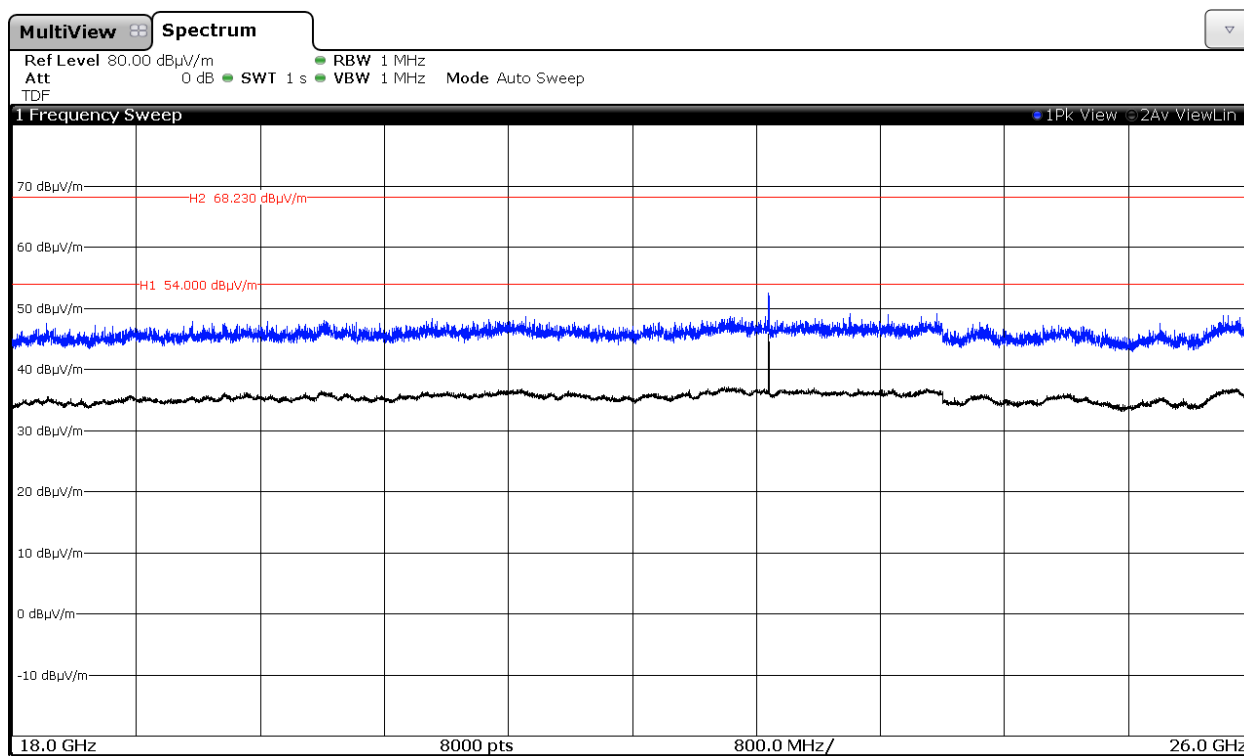


## Chain A+B

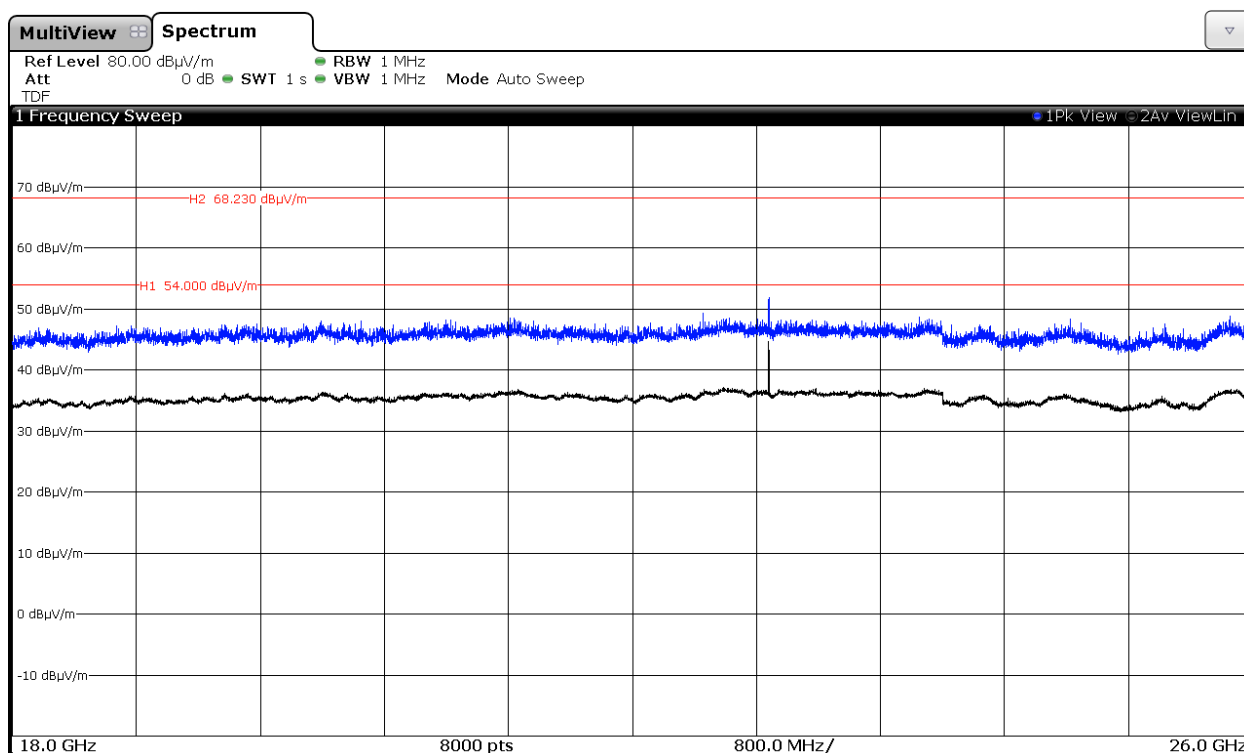


802.11ac20 mode: CH 144 (5720 MHz)

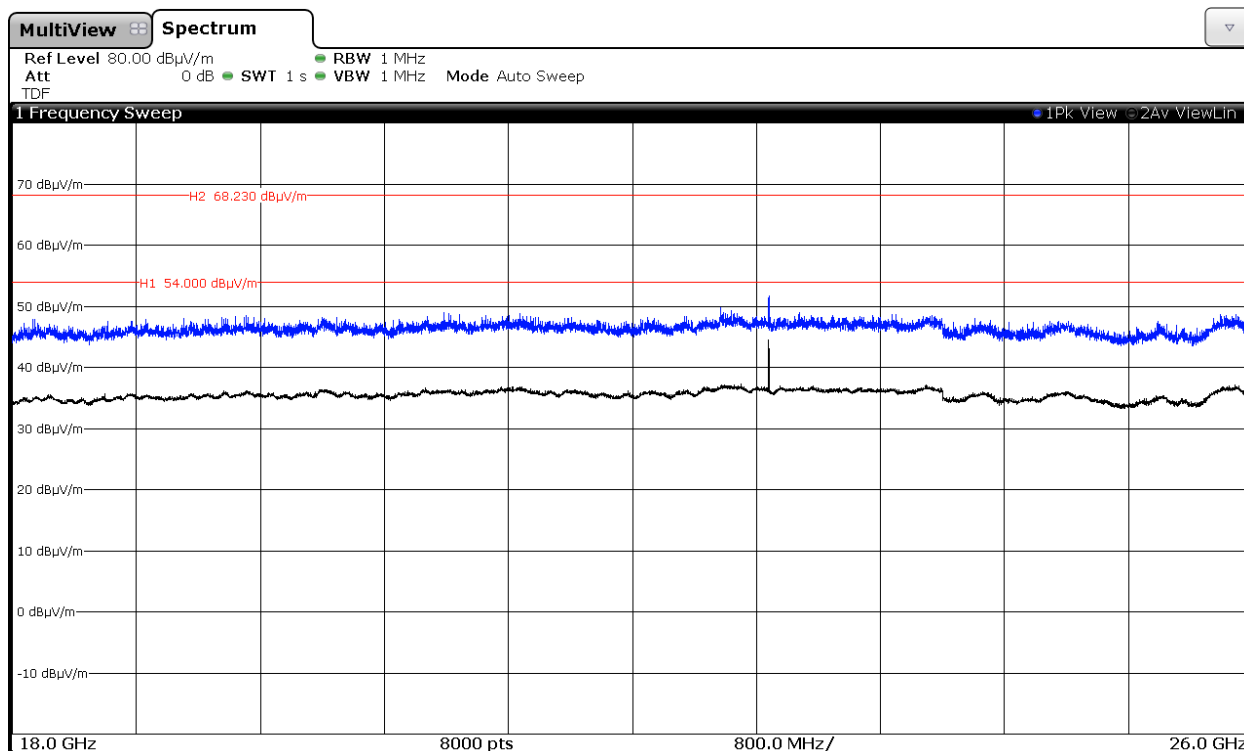
Chain A



Chain B



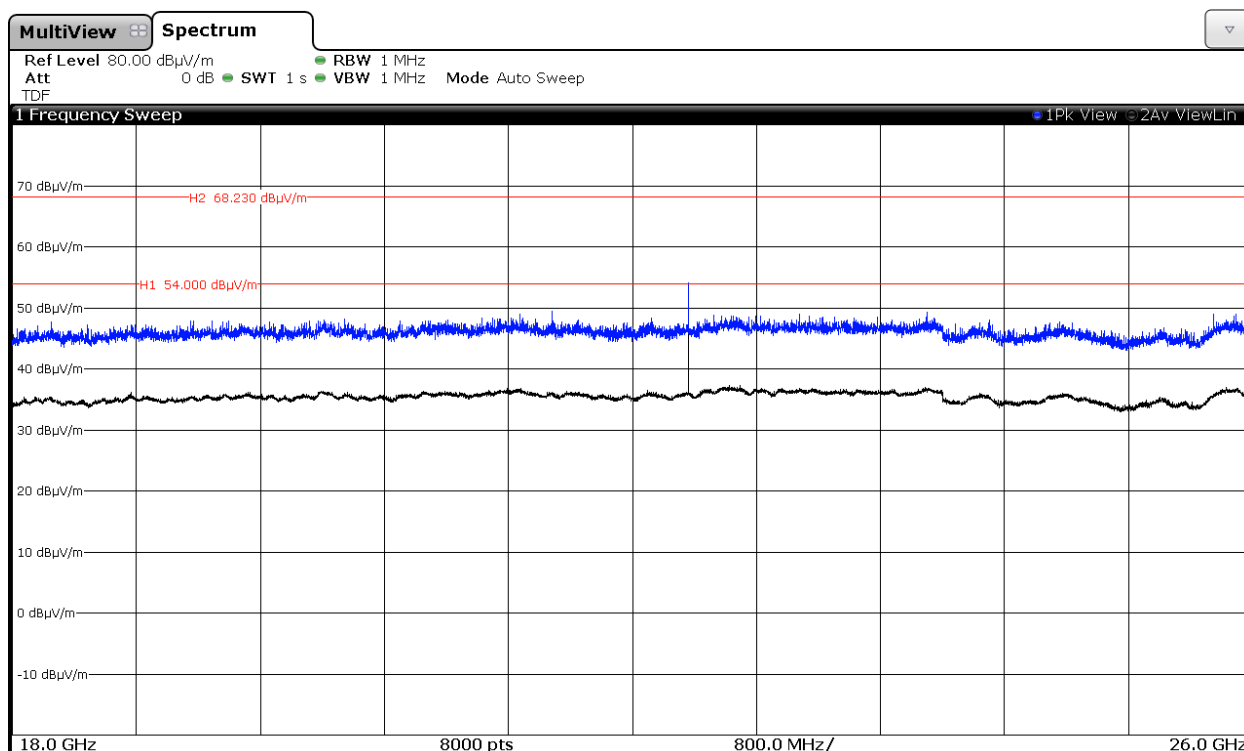
Chain A+B



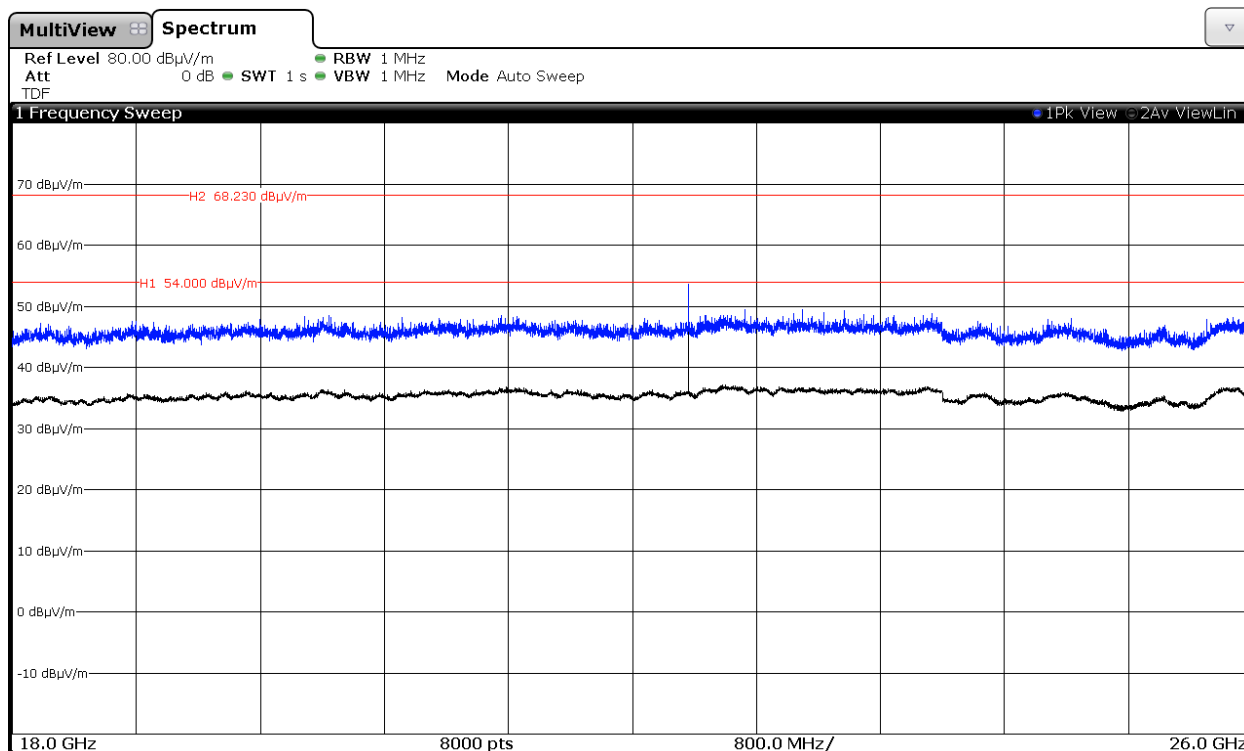
### 3. WiFi 5GHz 802.11 n40 mode

Middle frequency (118) 5590 MHz.

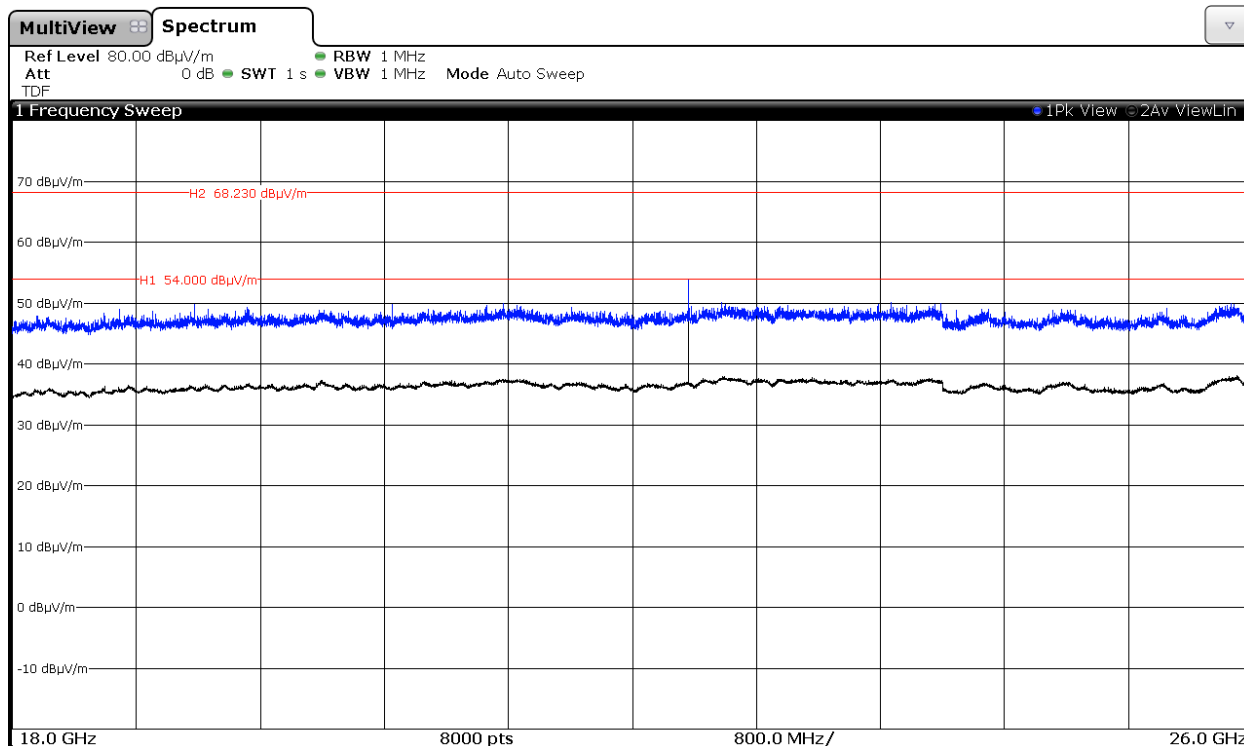
Chain A



## Chain B

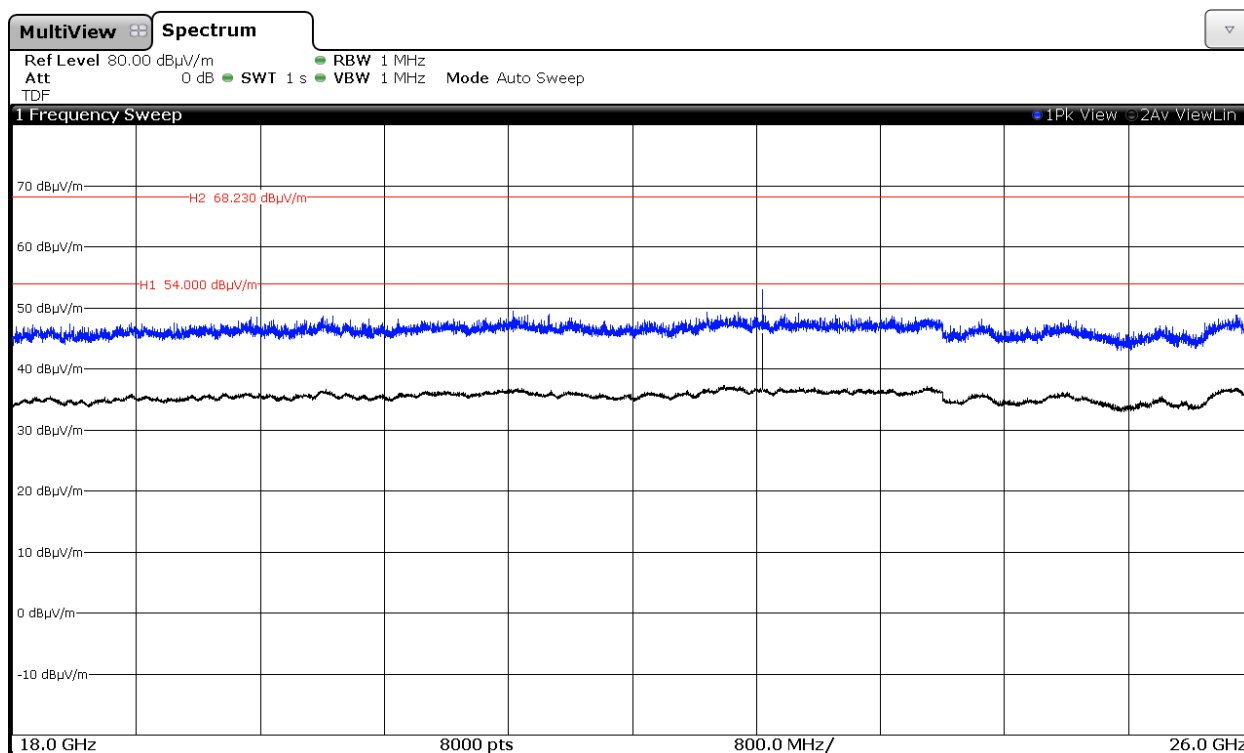


## Chain A+B

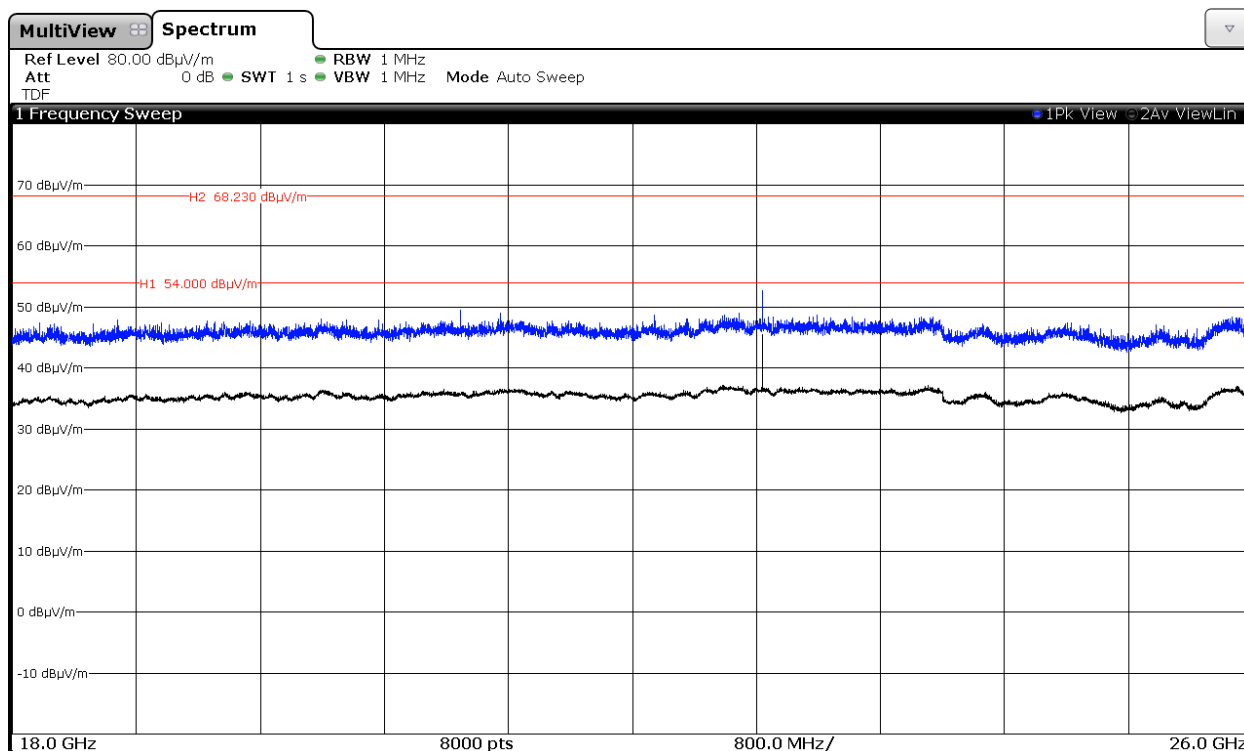


802.11ac40 mode: CH 142 (5710 MHz)

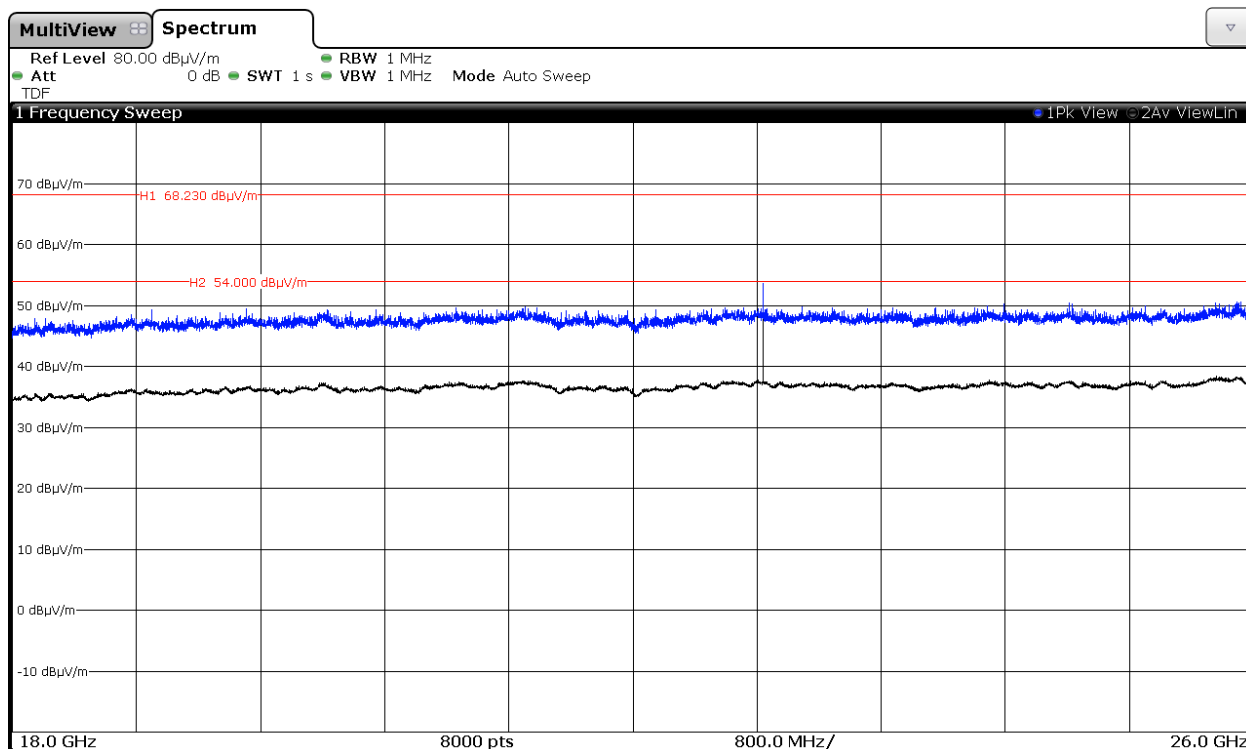
Chain A



Chain B



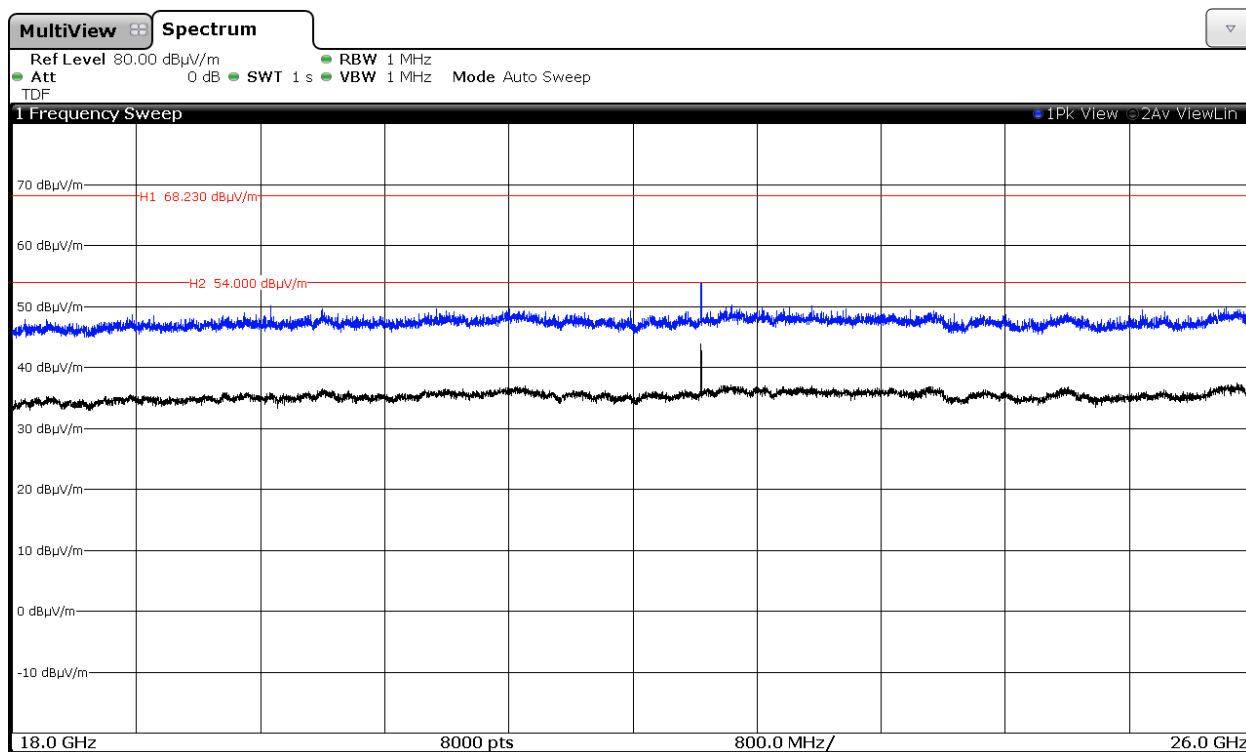
Chain A+B



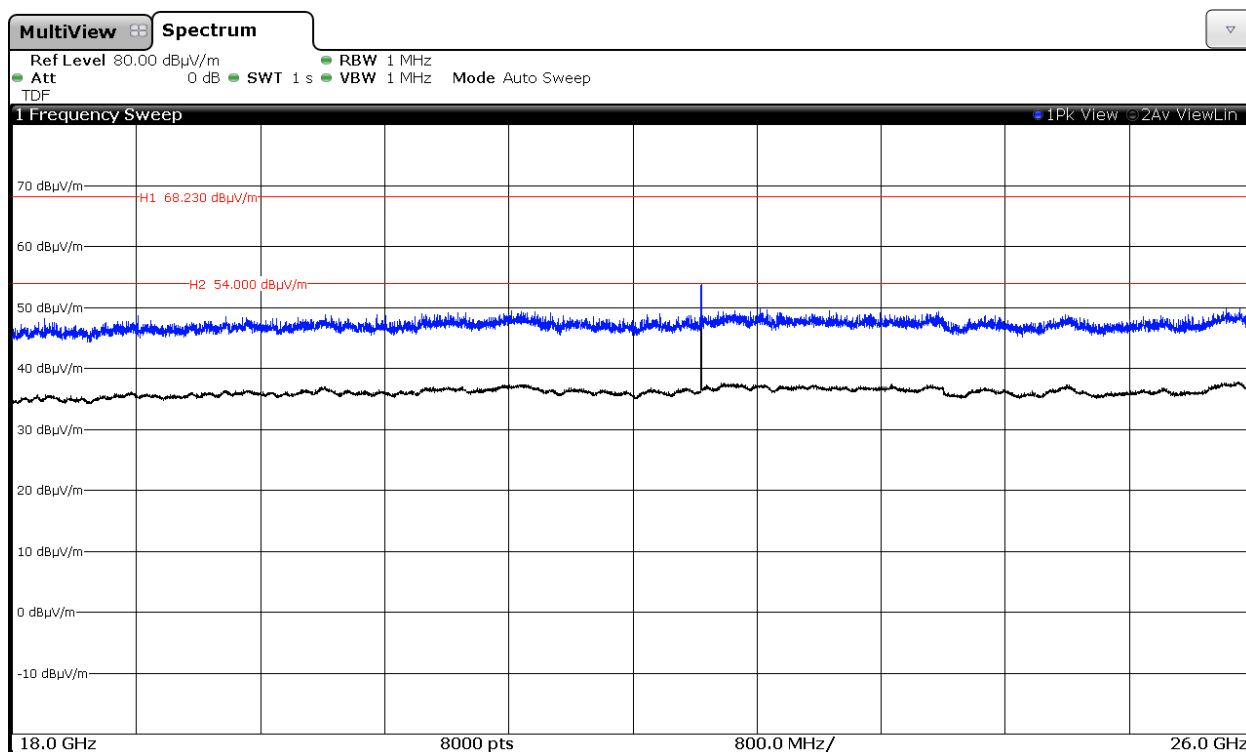
#### 4. WiFi 5GHz 802.11 ac80 mode

Middle frequency (122) 5610 MHz.

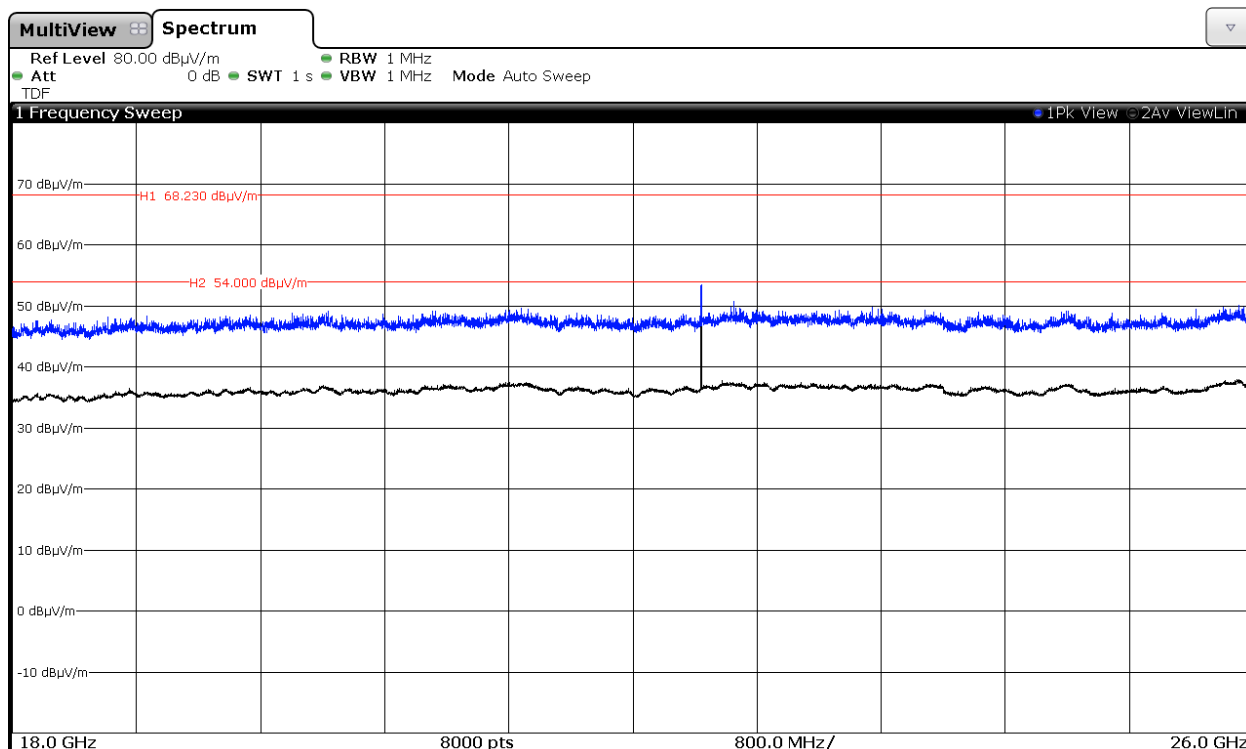
Chain A



## Chain B

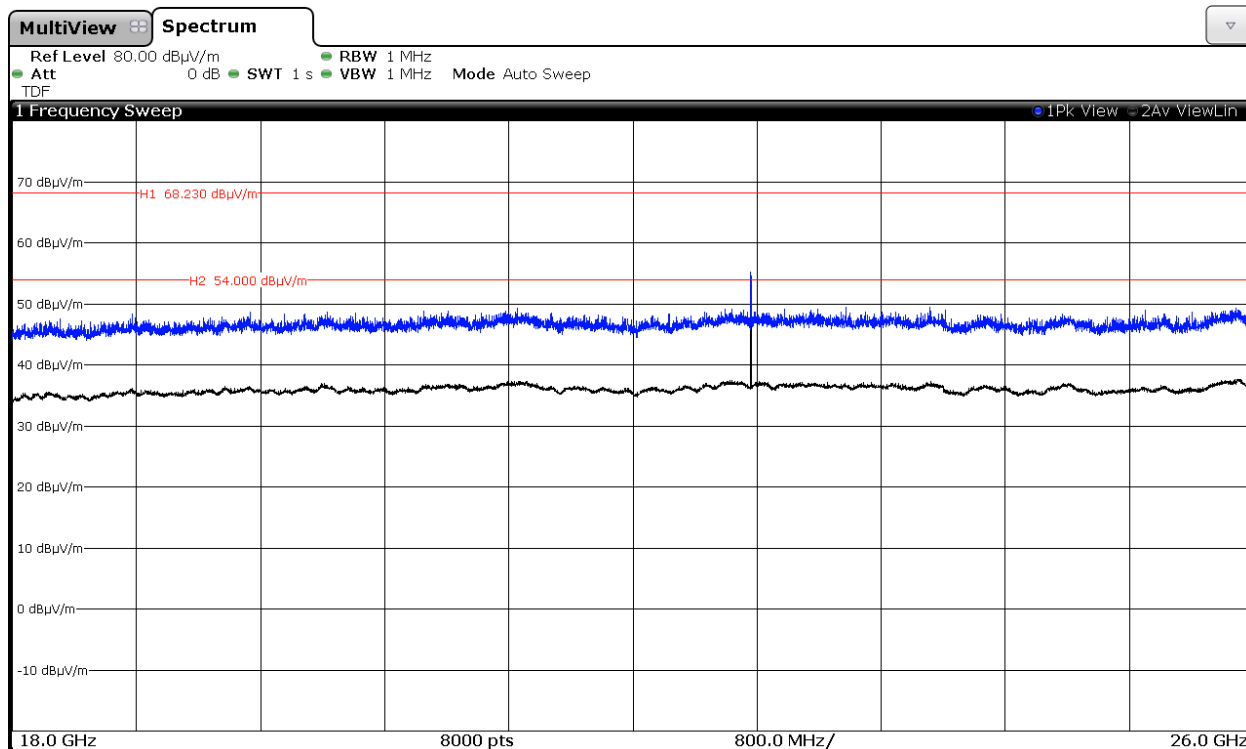


## Chain A+B

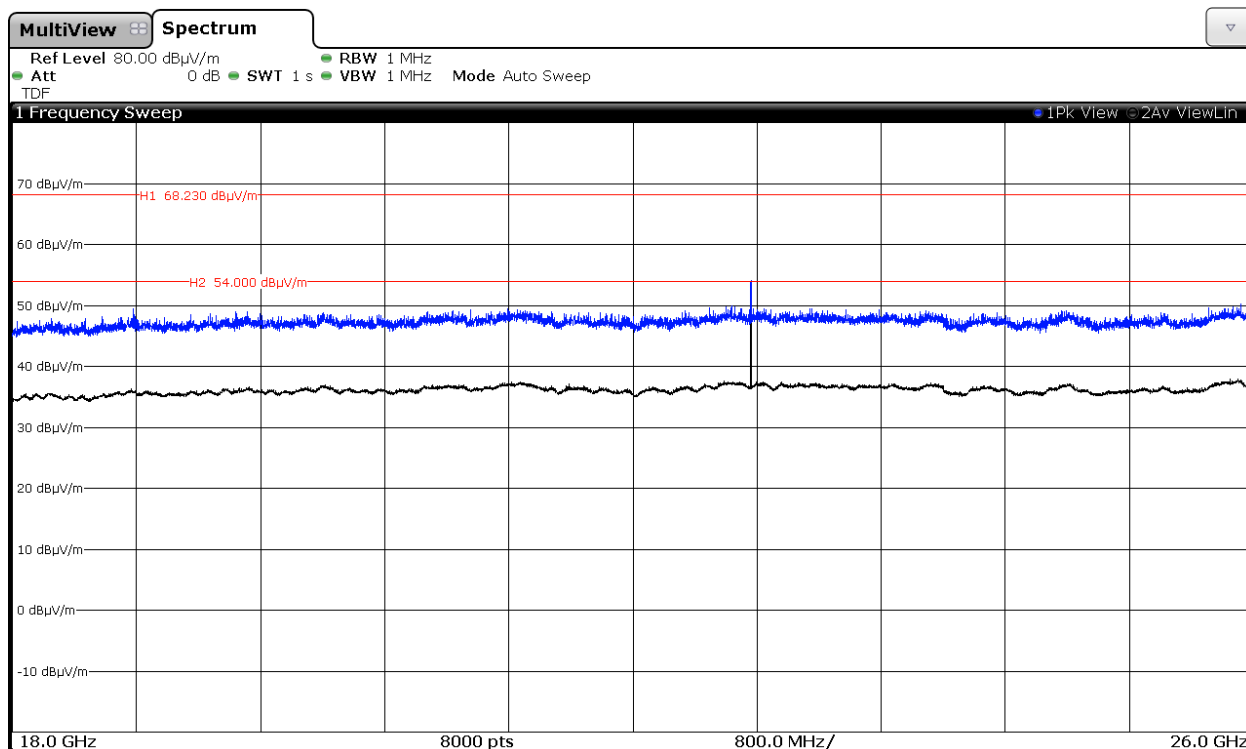


802.11ac80 mode: CH 138 (5690 MHz)

### Chain A

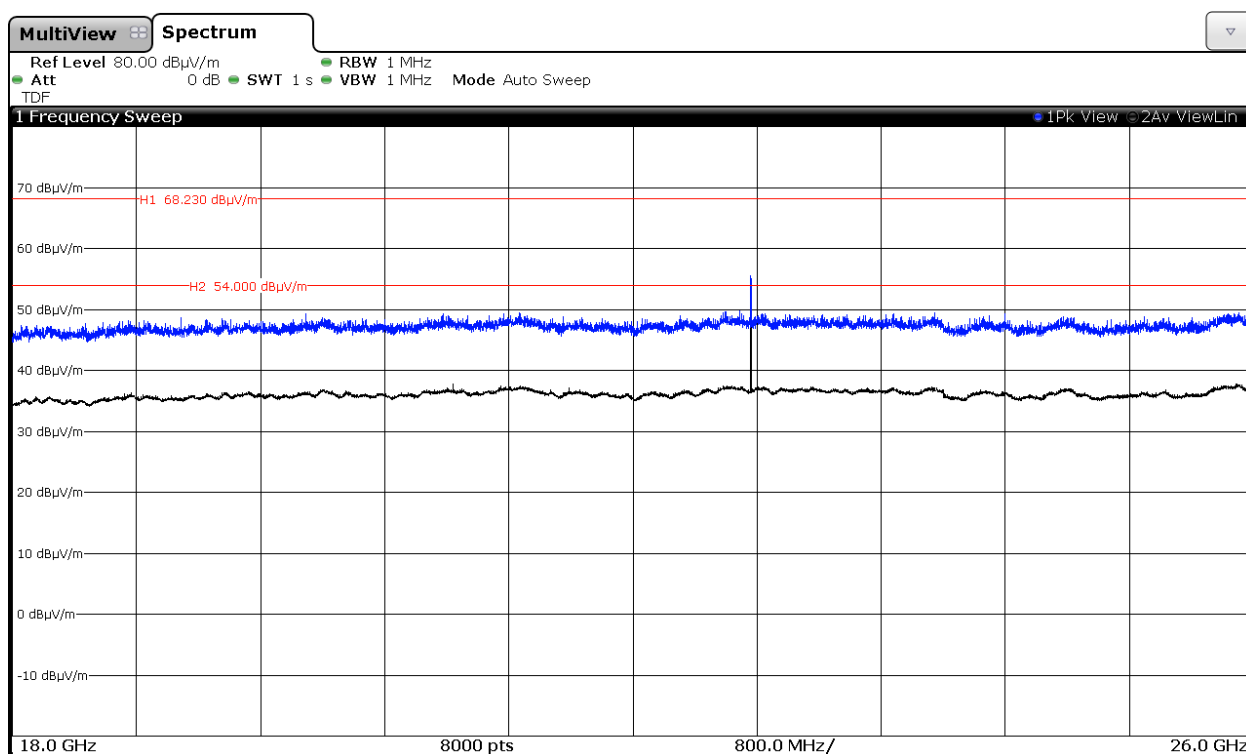


### Chain B



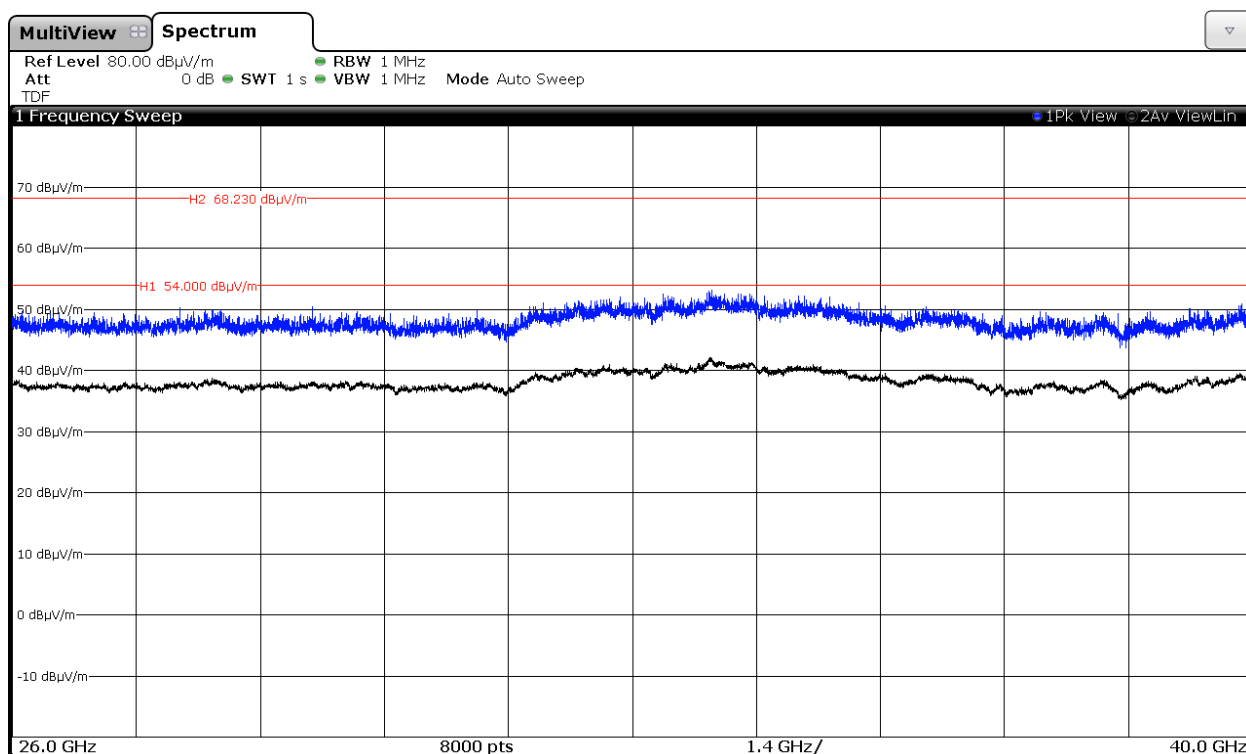


Chain A+B



**FREQUENCY RANGE 26GHz to 40GHz.**

No spurious signals were found in all modulations and channels tested.

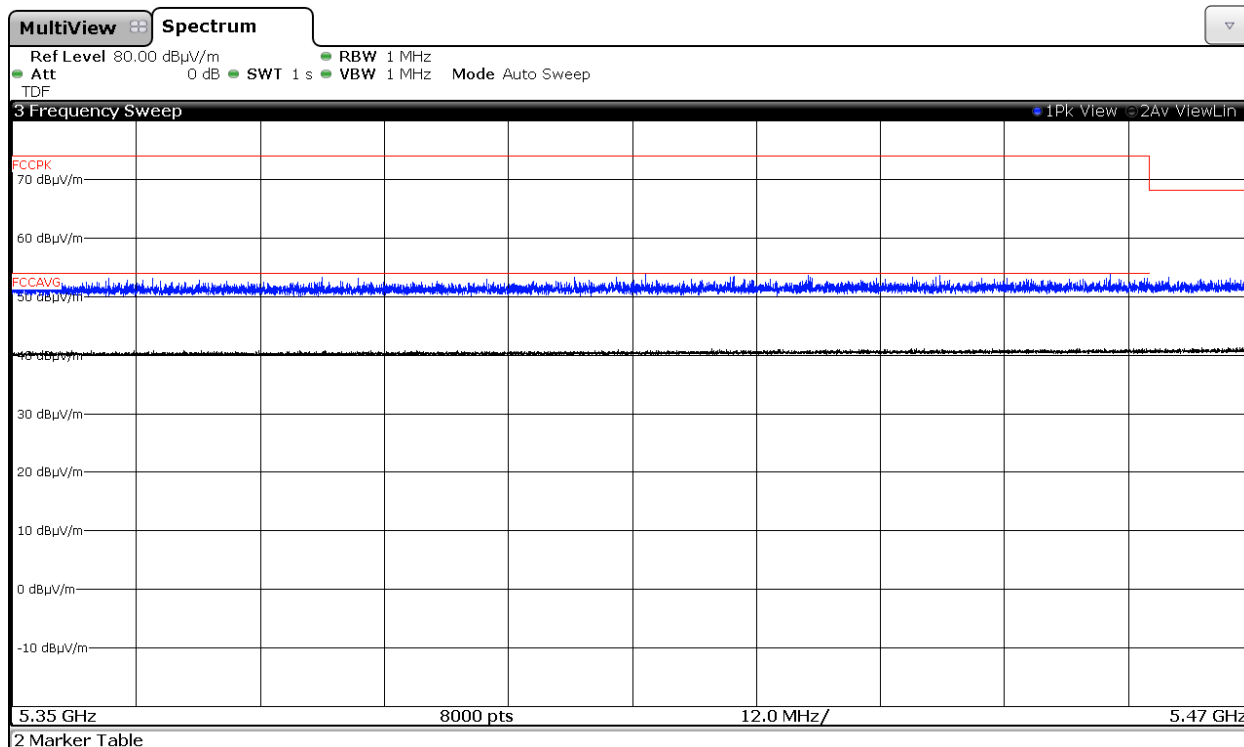


(This plot is valid for both SISO and MIMO).

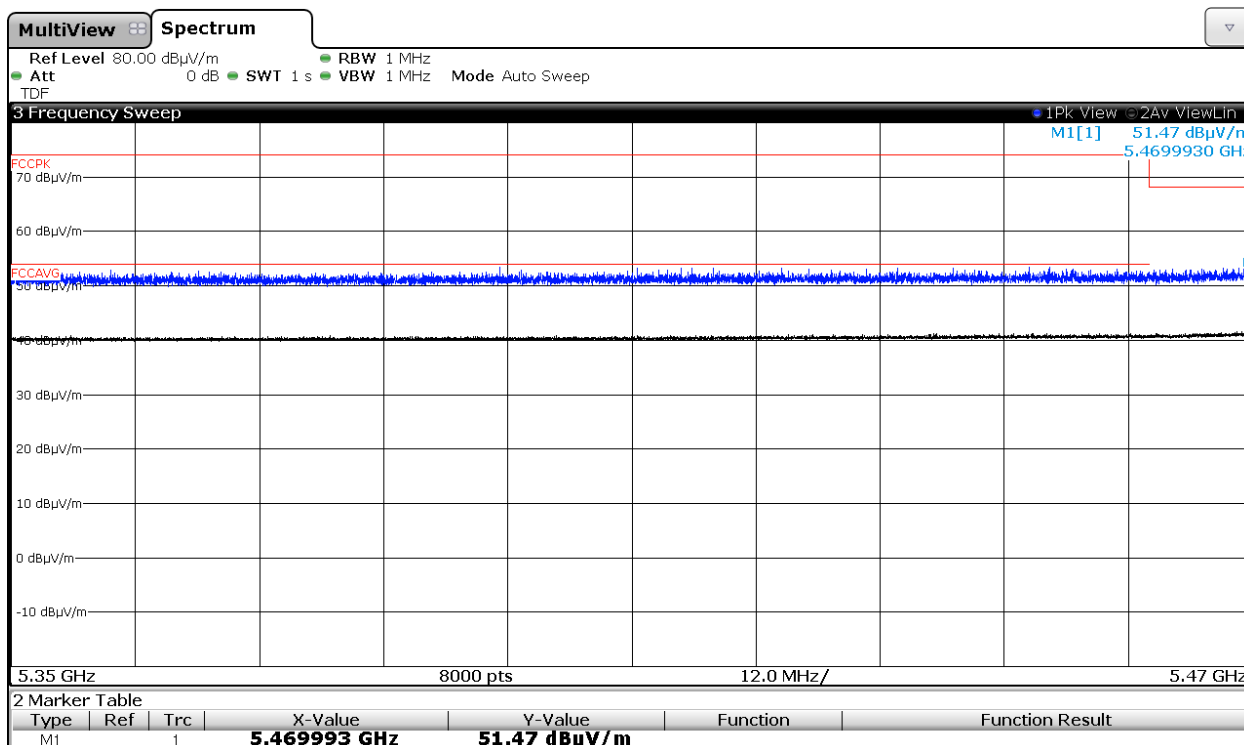
# Radiated spurious emissions at band-edges and inside restricted band 5.35 – 5.46 GHz and adjacent band 5.46 – 5.47 GHz.

## 1. WiFi 5GHz 802.11 a mode

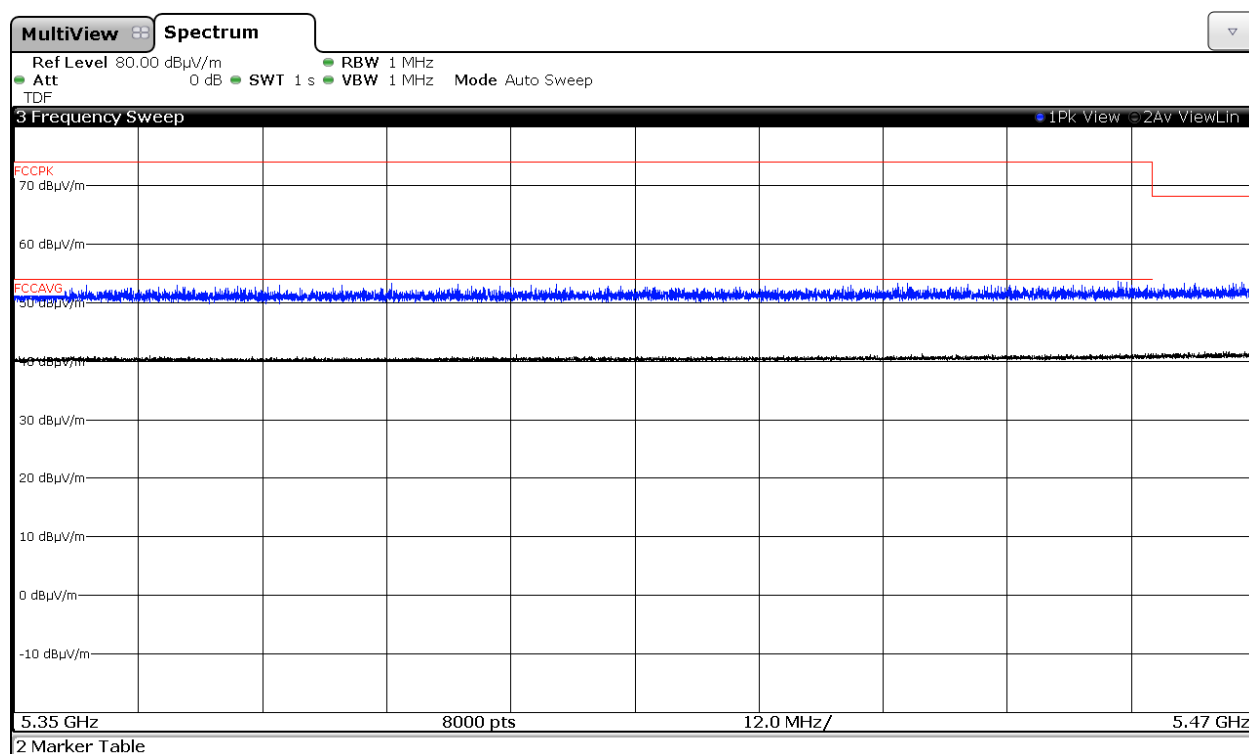
Lowest Channel (100) 5500 MHz. Chain A.



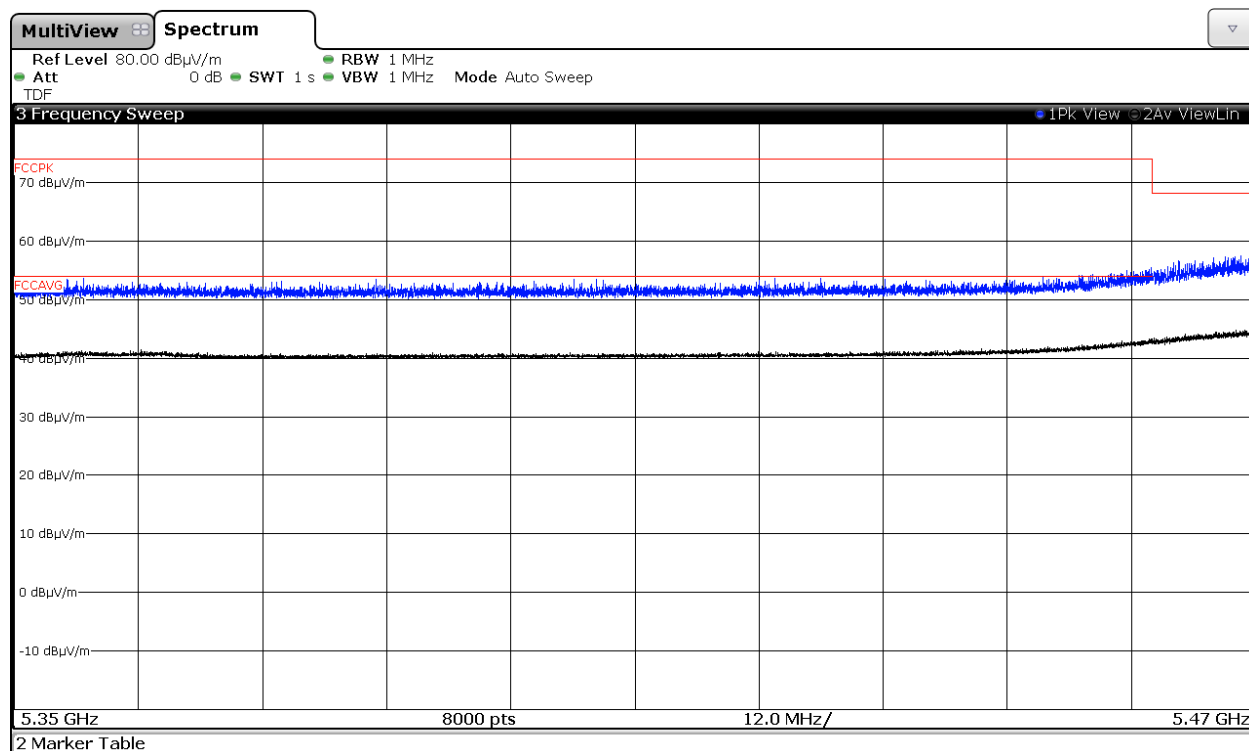
Lowest Channel (100) 5500MHz. Chain B.



Channel 104. 5520MHz. Chain A.

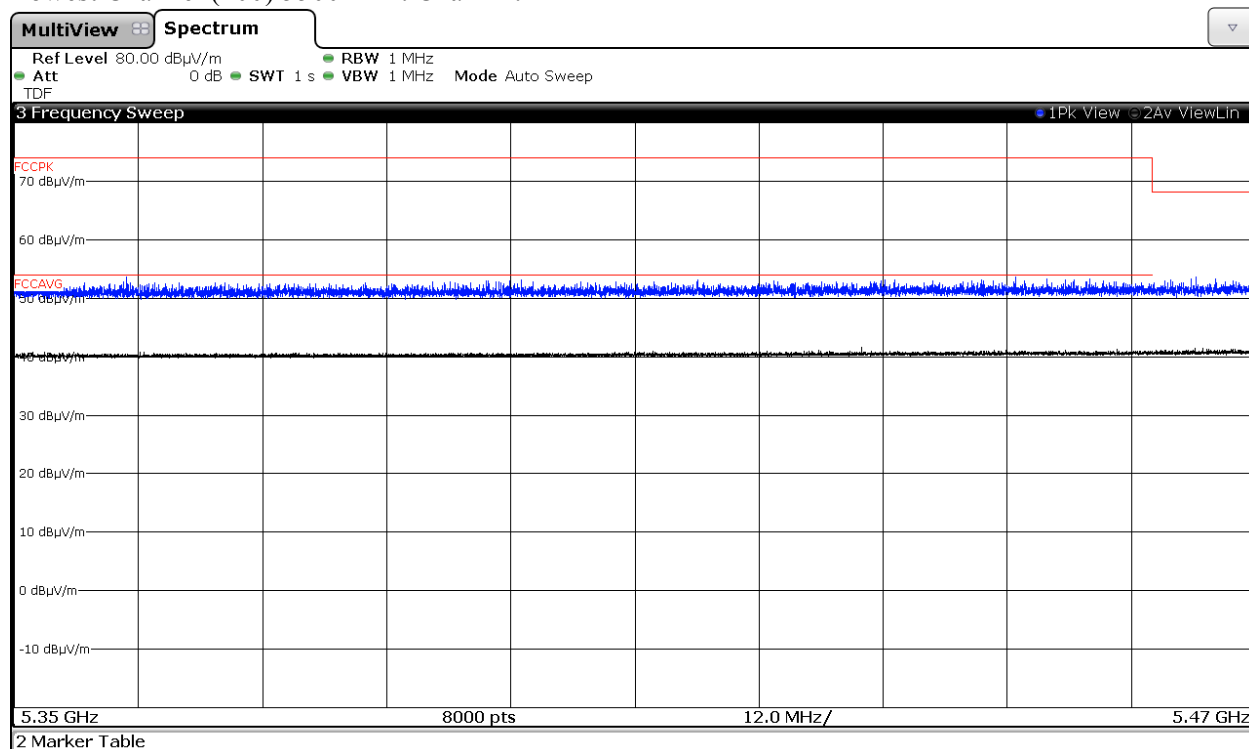


Channel 104. 5520MHz. Chain B.

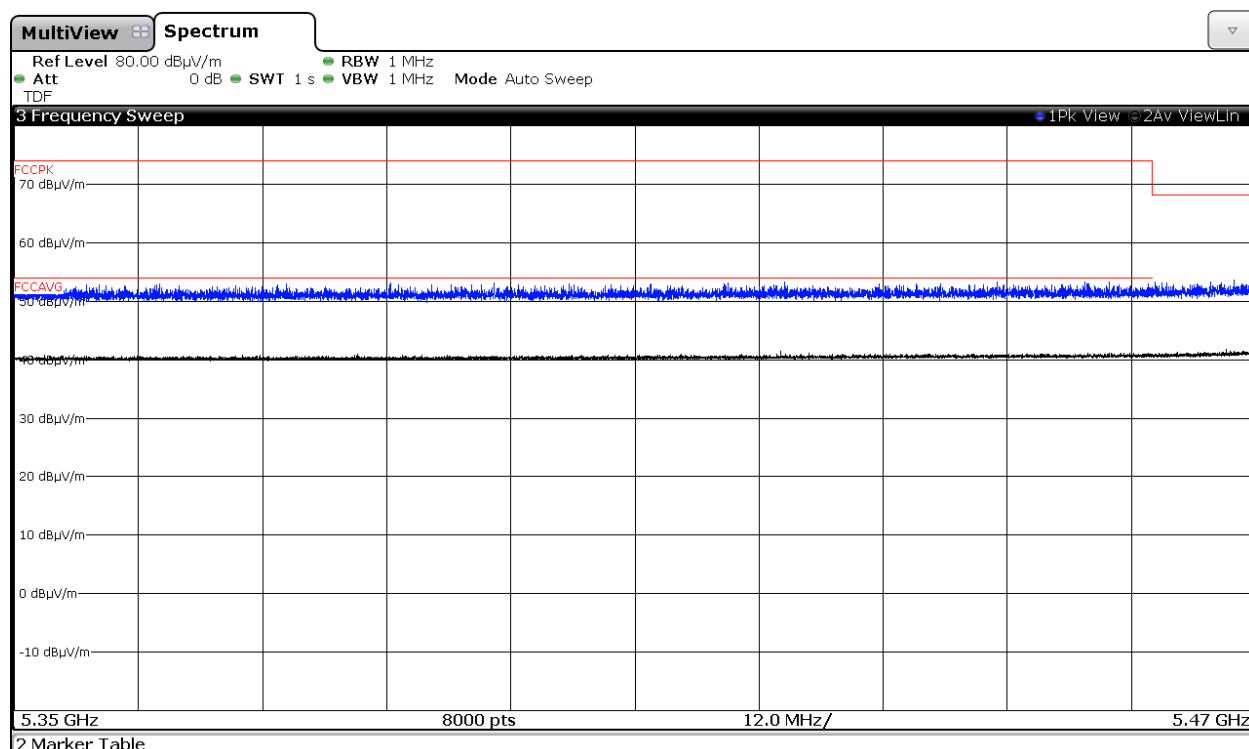


## 2. WiFi 5GHz 802.11 n20 mode

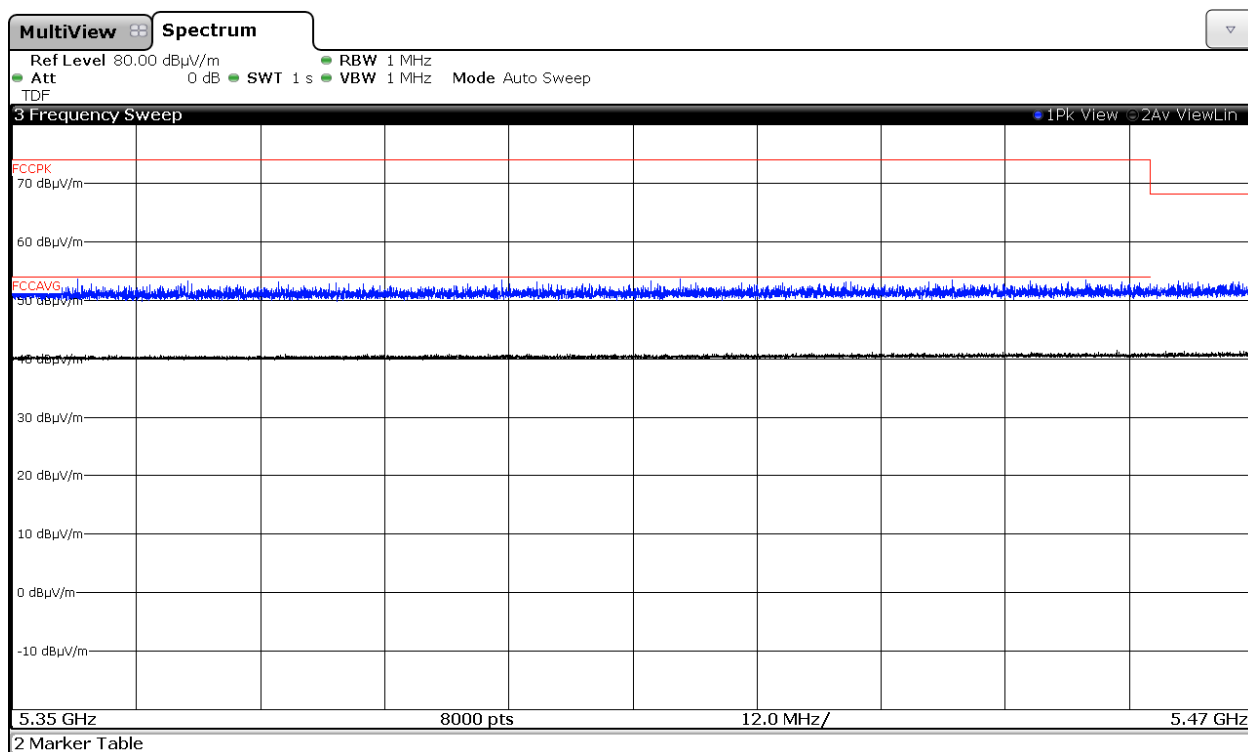
Lowest Channel (100) 5500MHz. Chain A.



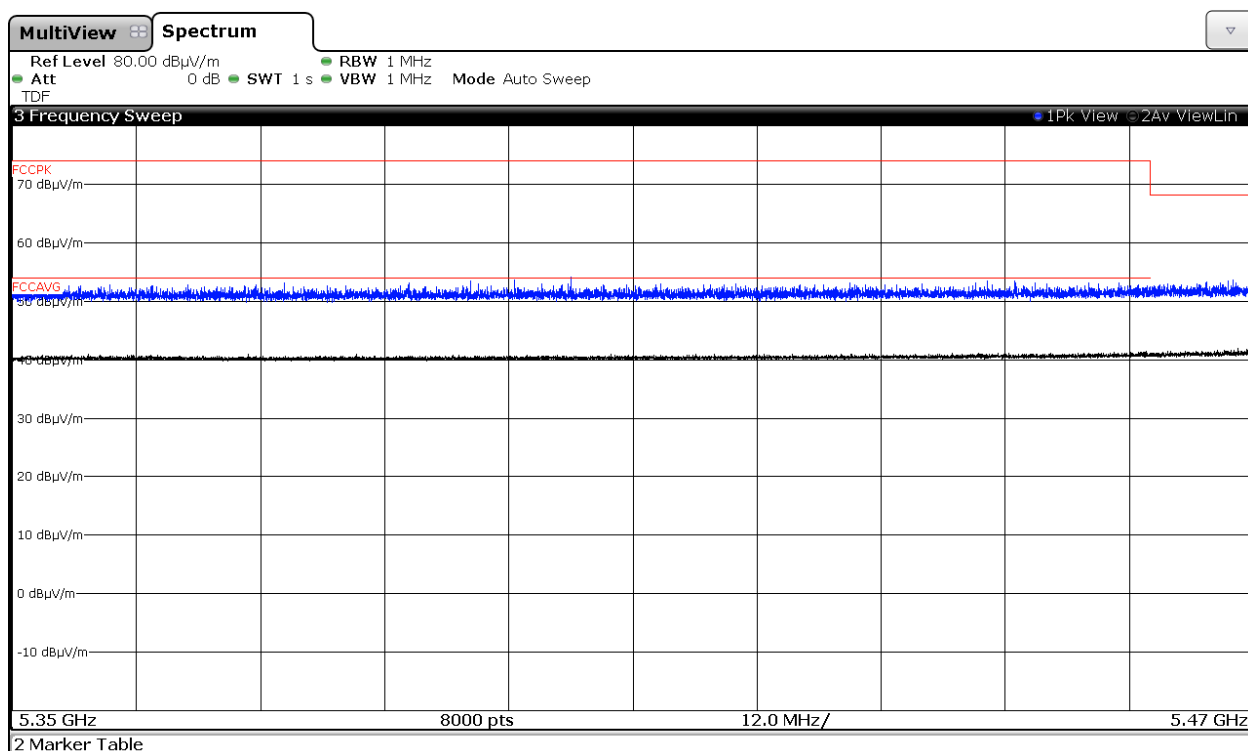
Lowest Channel (100) 5500MHz. Chain B.



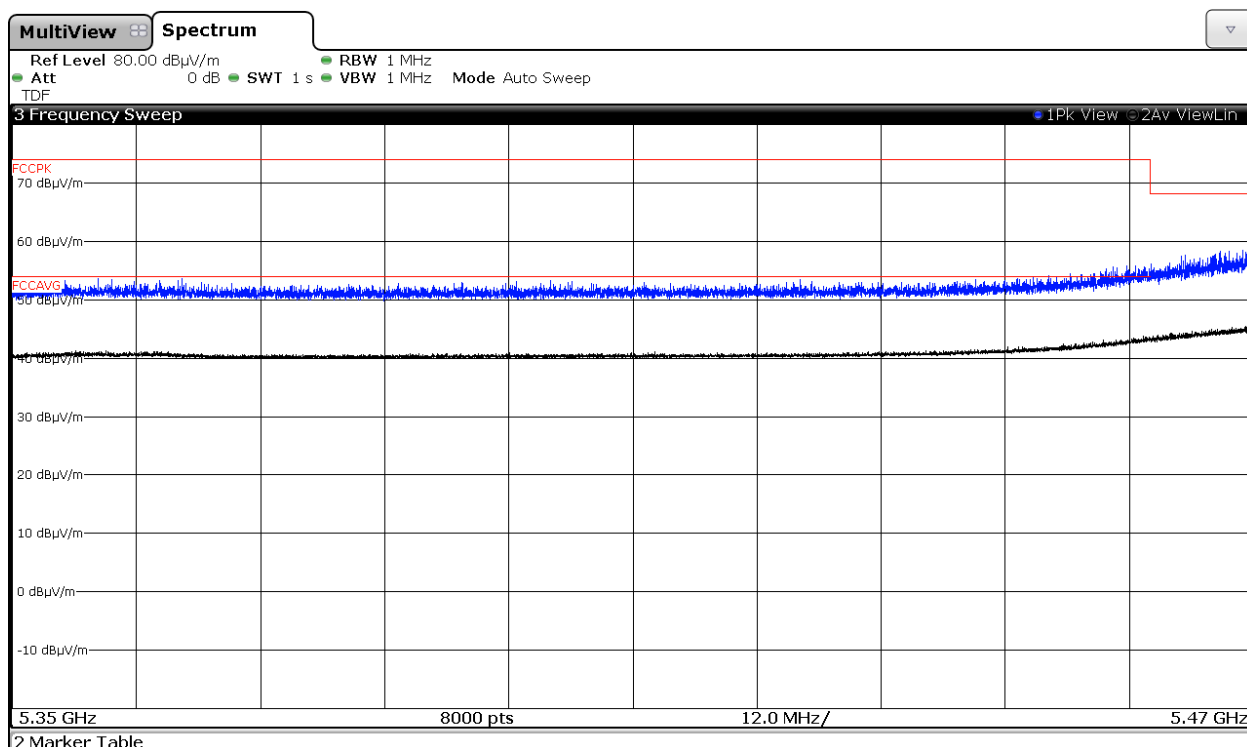
Lowest Channel (100) 5500MHz. Chain A+B.



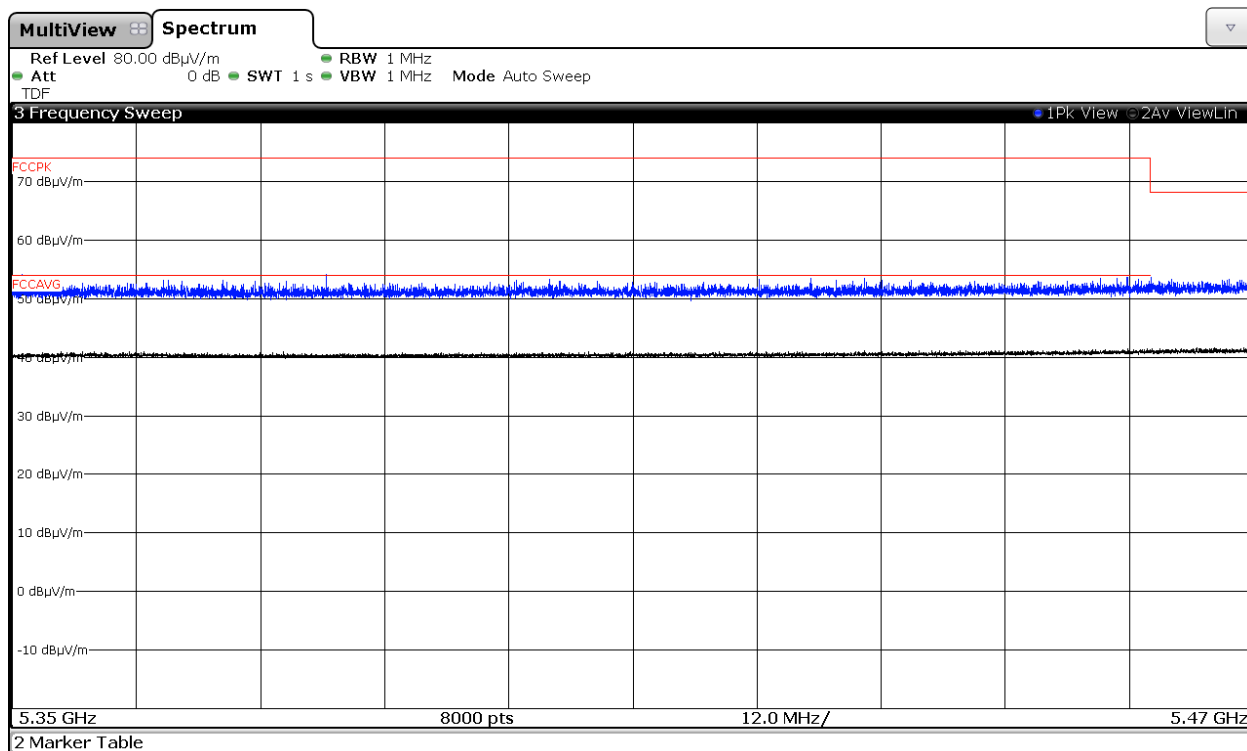
Channel 104. 5520MHz. Chain A.



Channel 104. 5520MHz. Chain B.

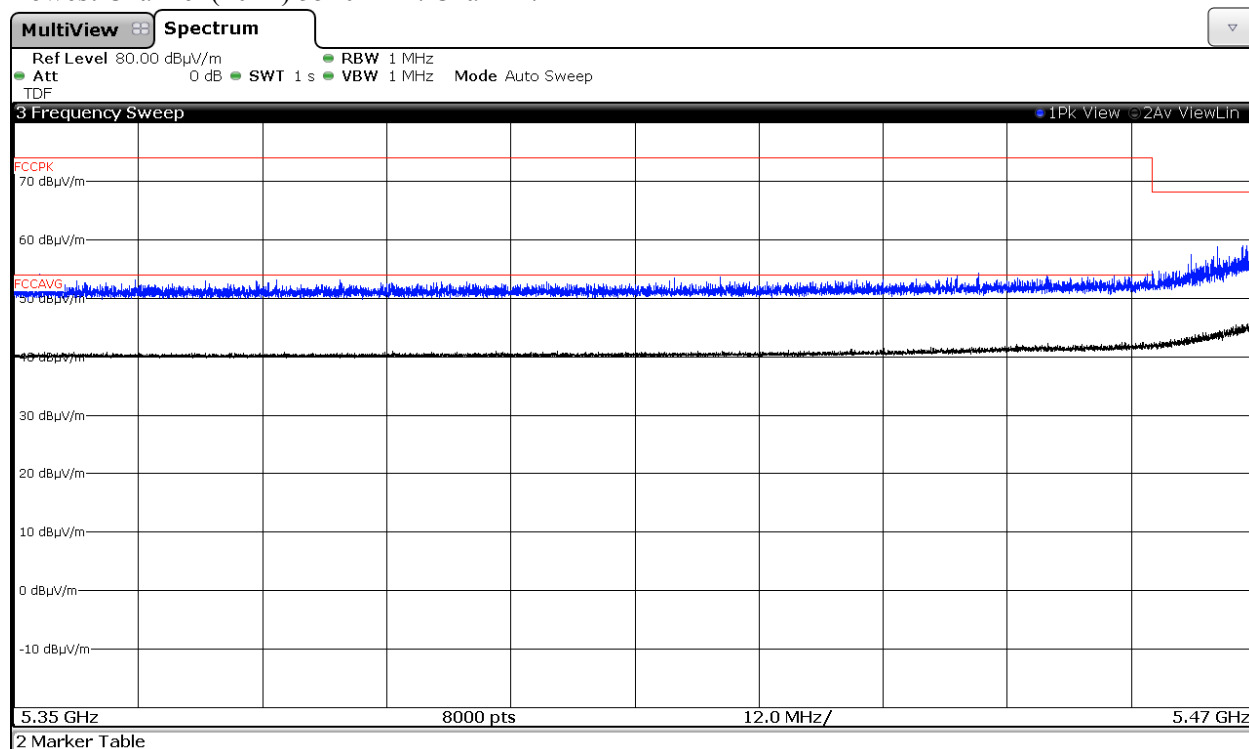


Channel 104. 5520MHz. Chain A+B.

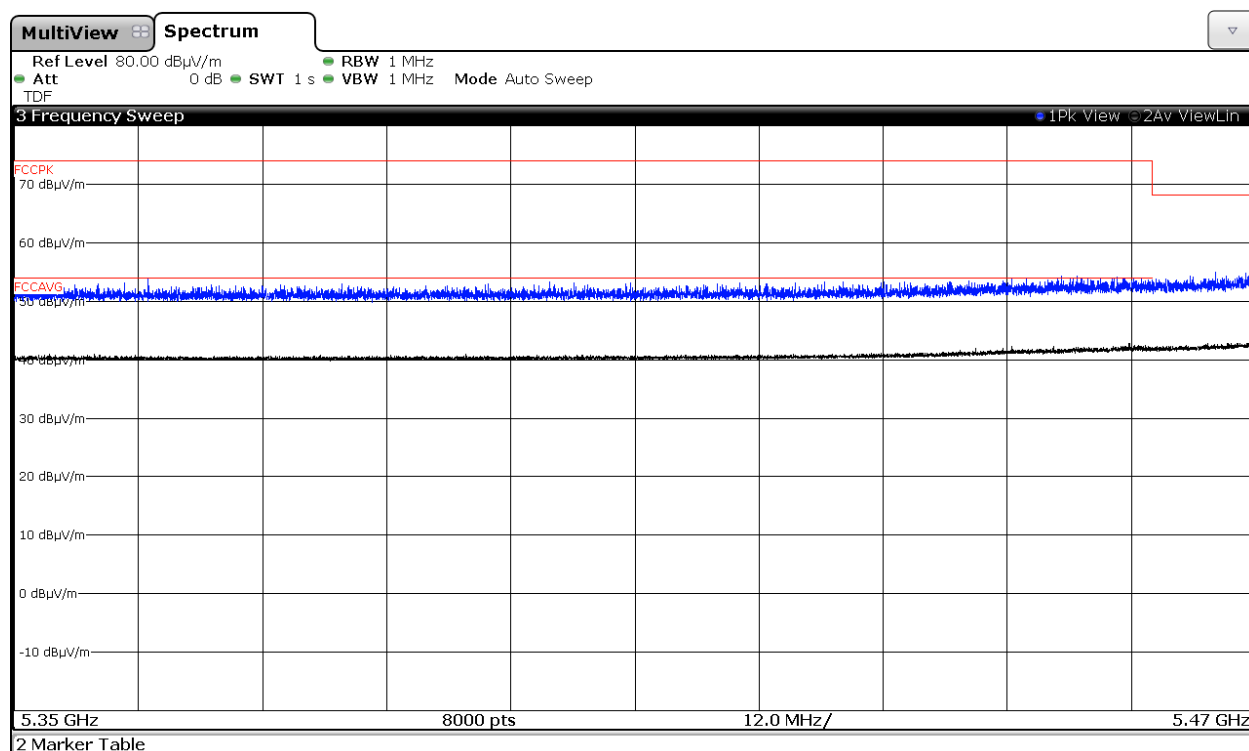


### 3. WiFi 5GHz 802.11 n40 mode

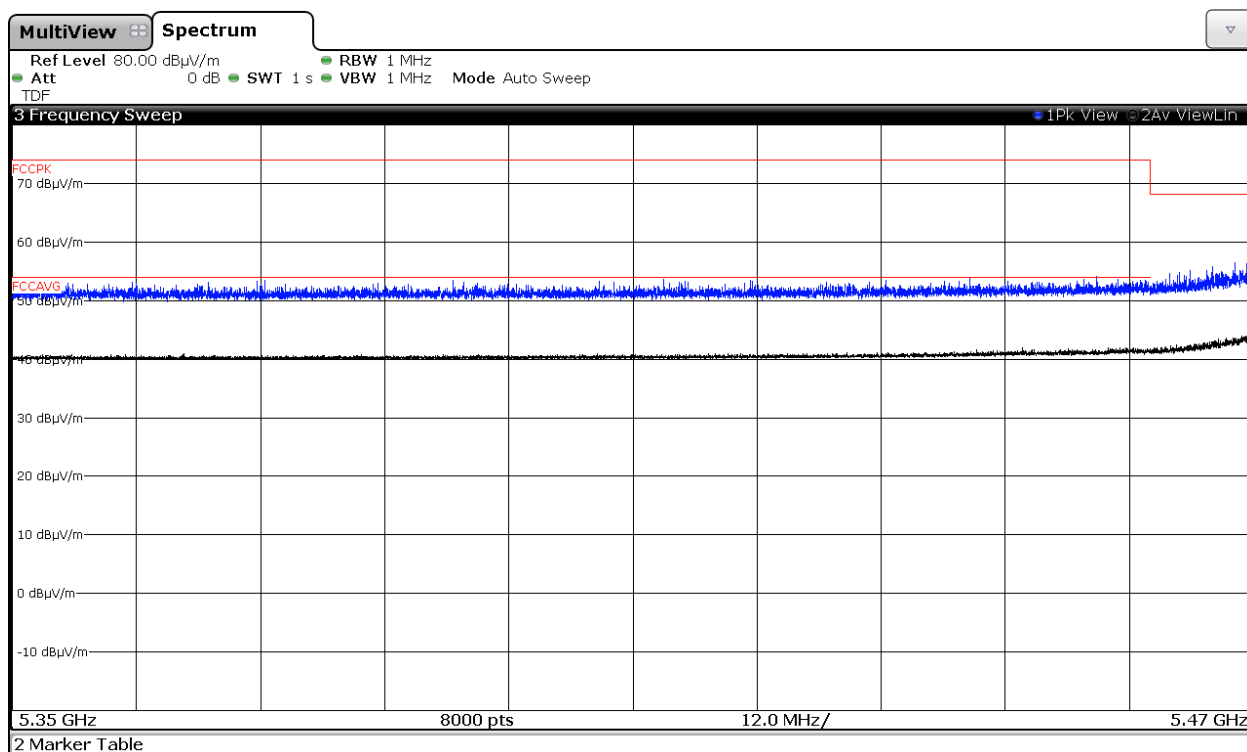
Lowest Channel (102F) 5510MHz. Chain A.



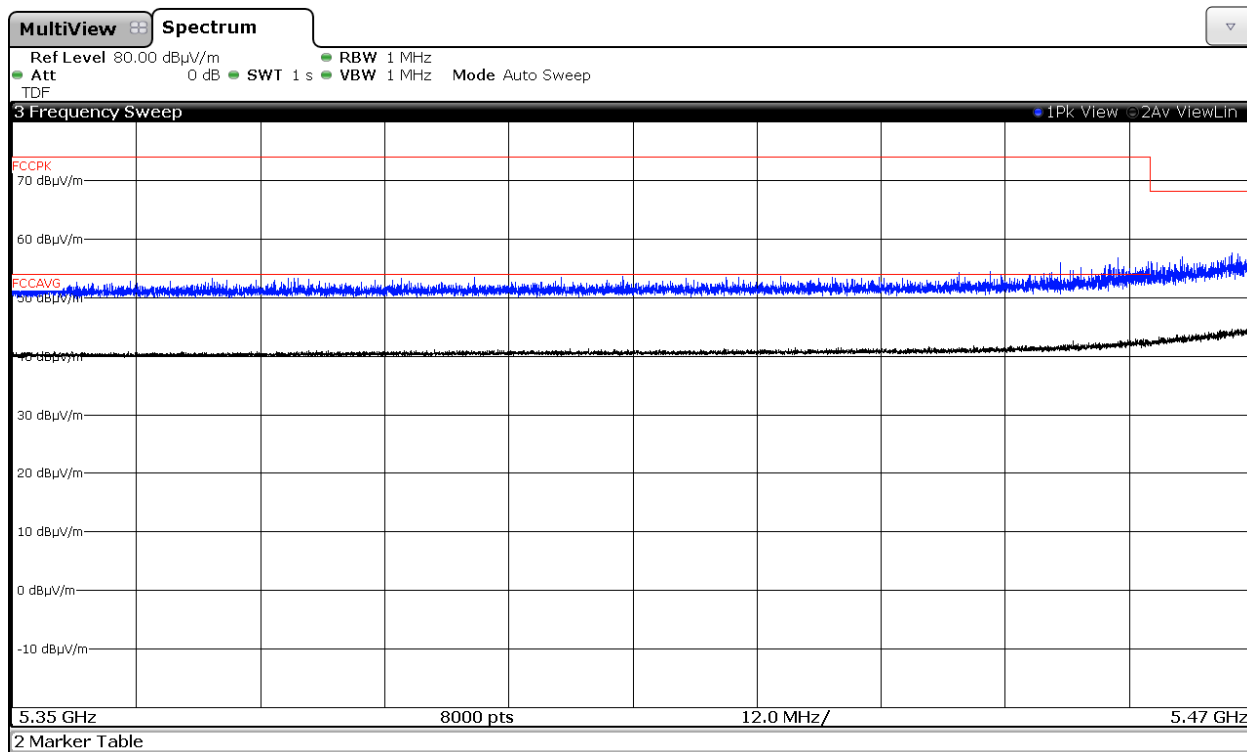
Lowest Channel (102F) 5510MHz. Chain B.



Lowest Channel (102F) 5510MHz. Chain A+B.

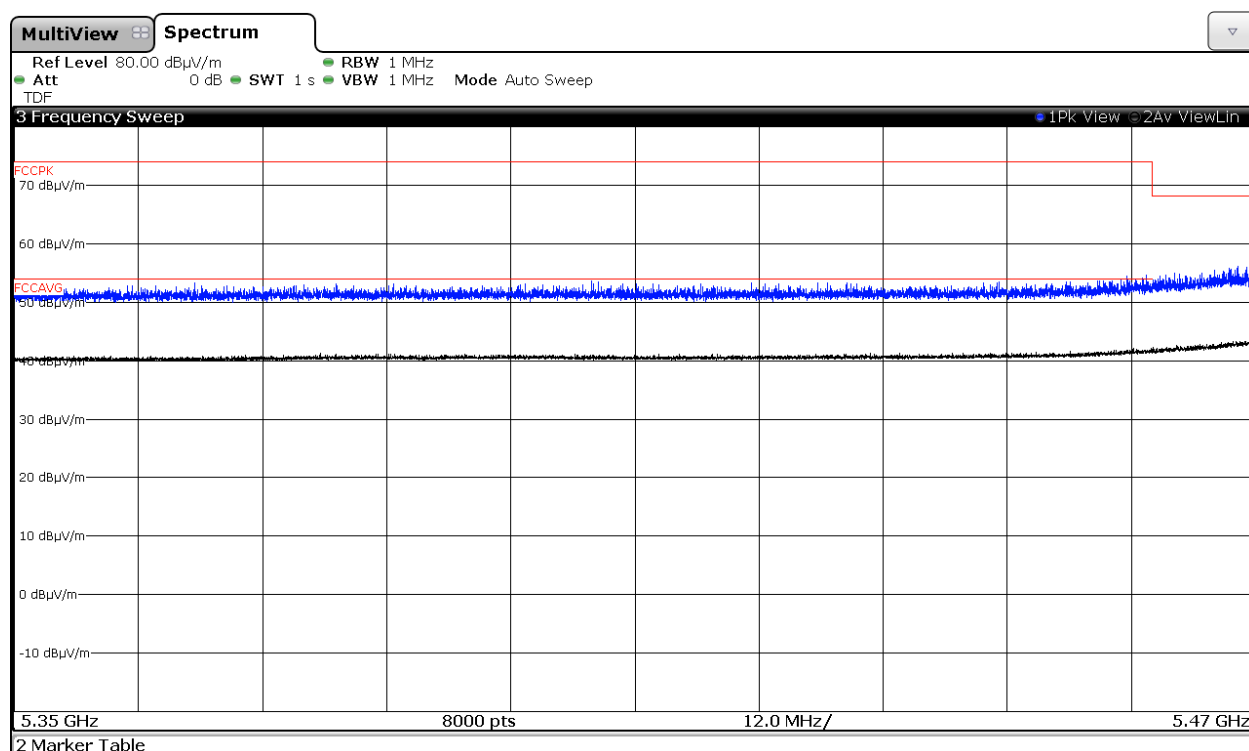


Channel 110F. 5550MHz. Chain A.

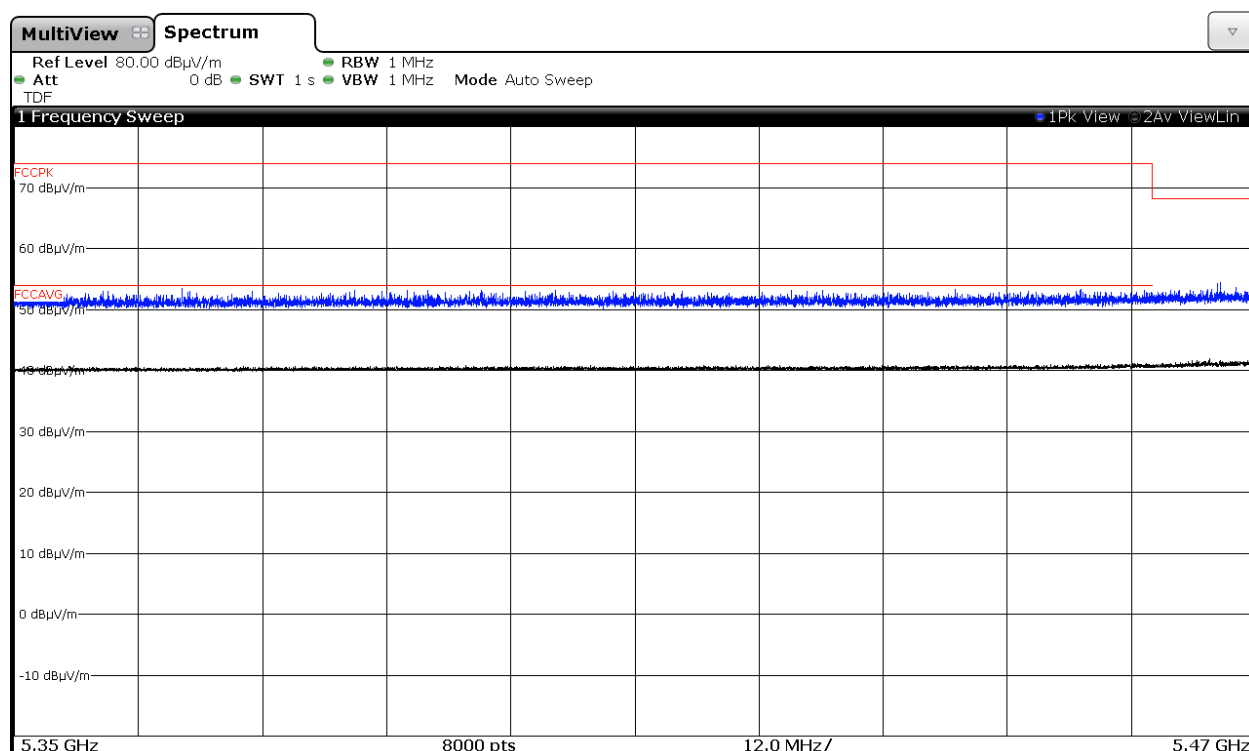




Channel 110F. 5550MHz. Chain B.

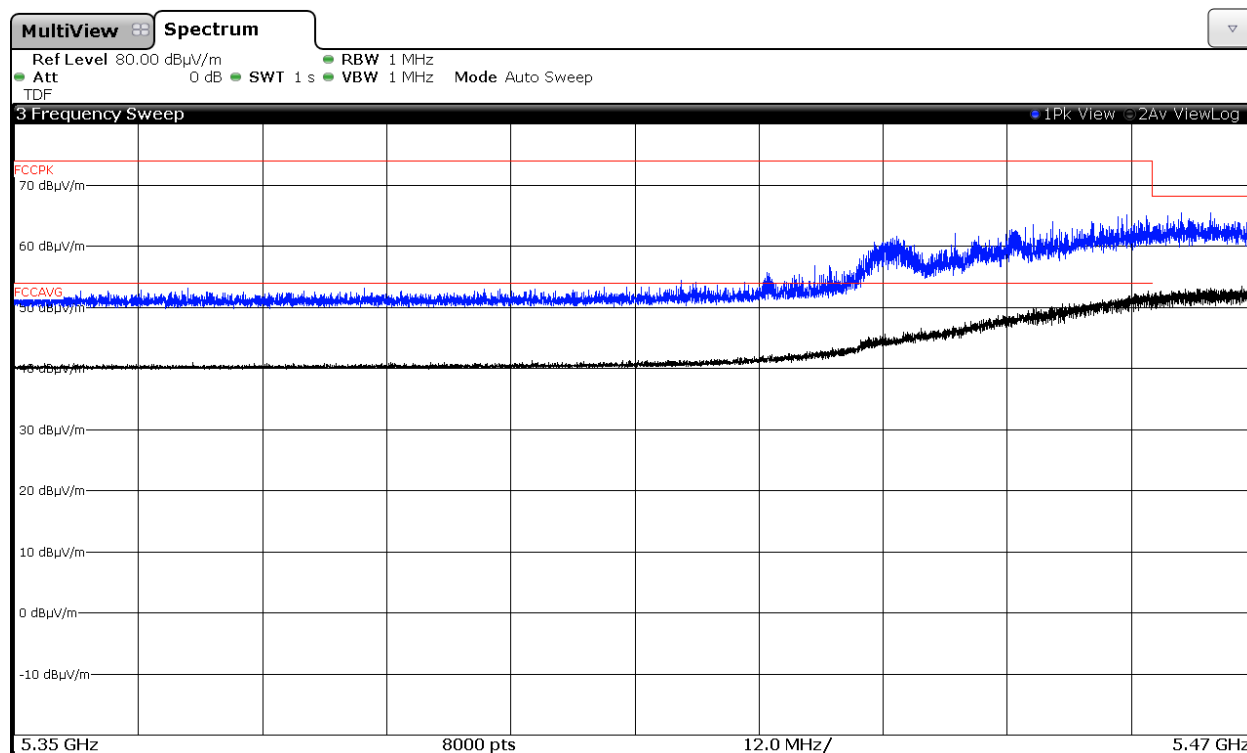


Channel 110F. 5550MHz. Chain A+B.

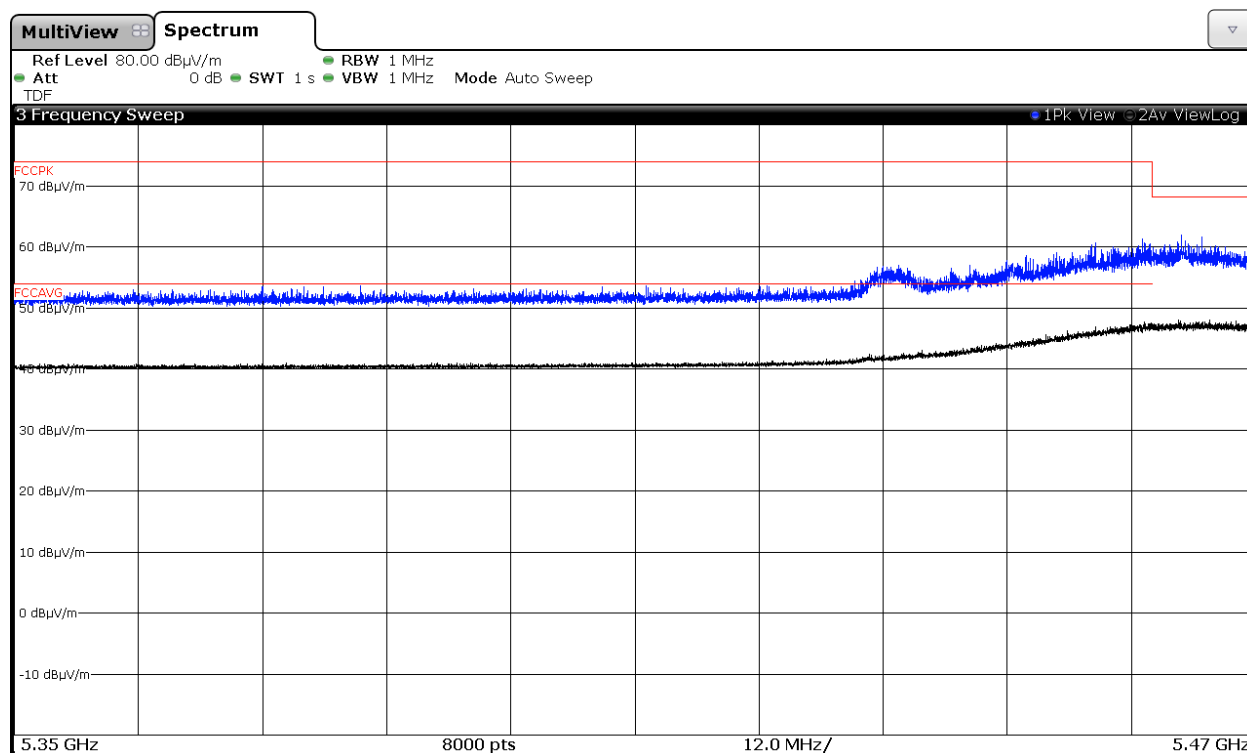


#### 4. WiFi 5GHz 802.11 ac80 mode

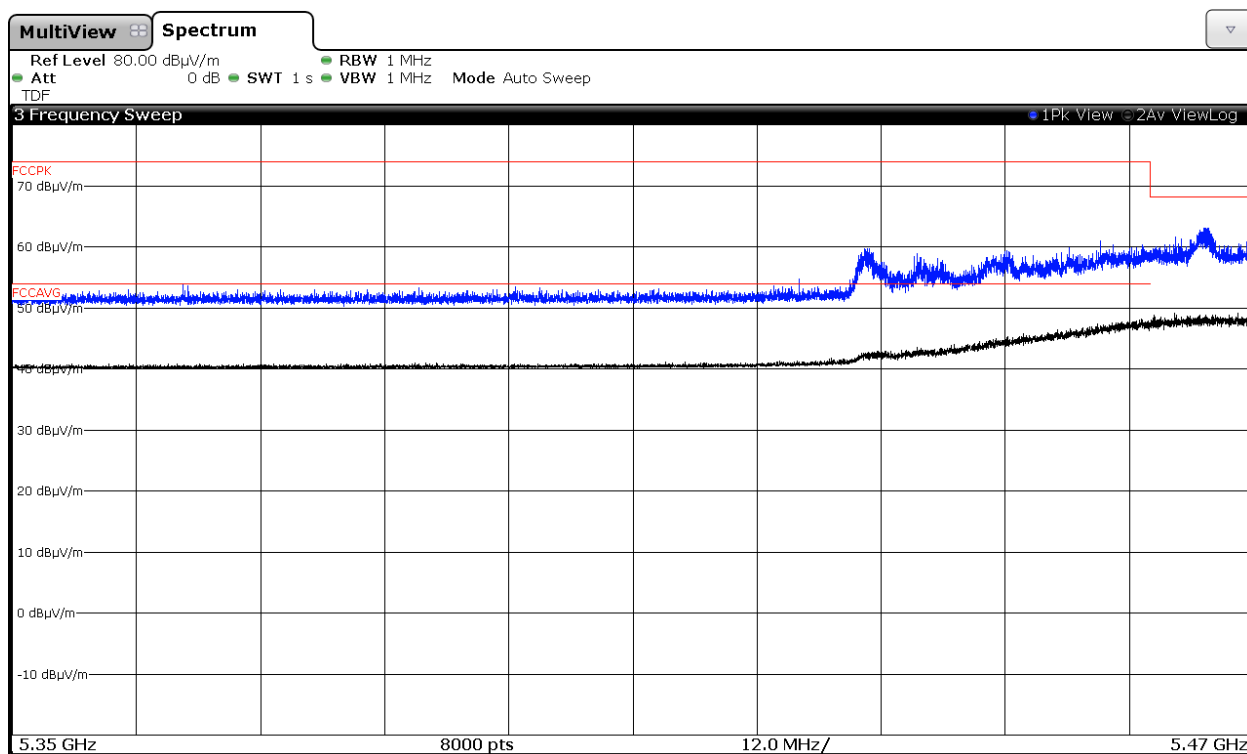
Lowest Channel (106) 5530MHz. Chain A.



Lowest Channel (106) 5530MHz. Chain B.



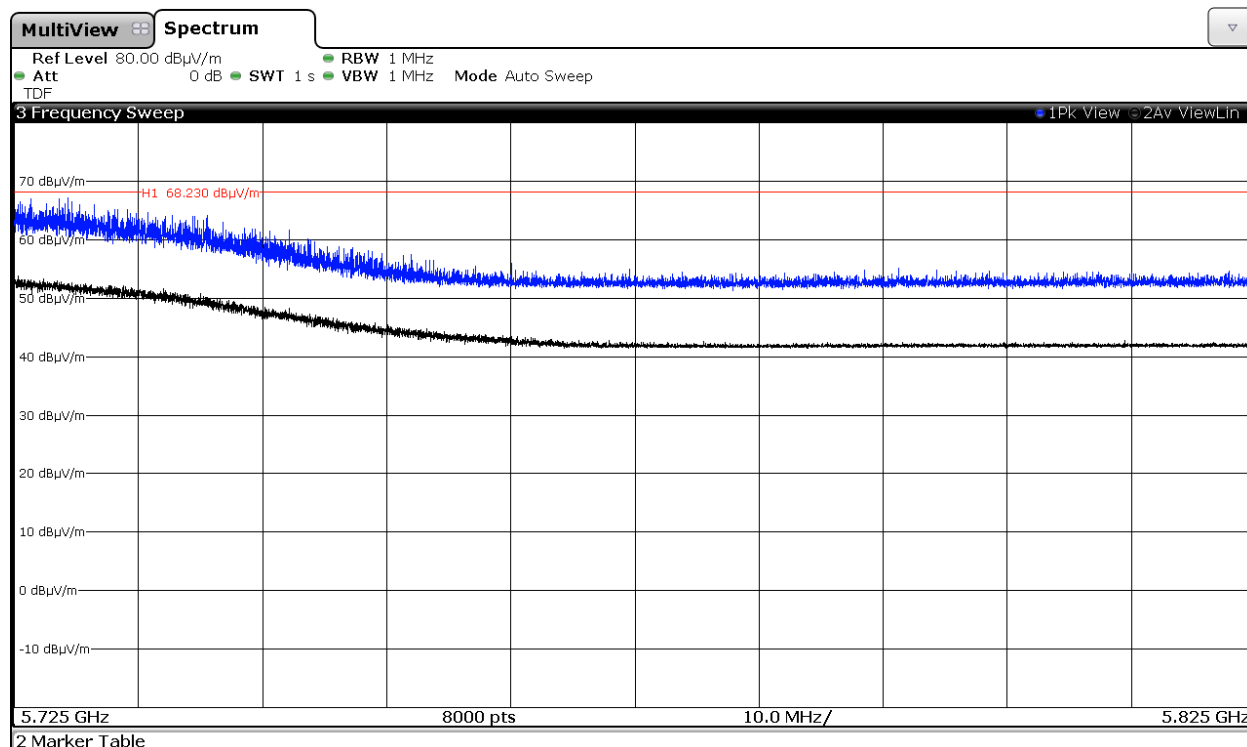
Lowest Channel (106) 5530MHz. Chain A+B.



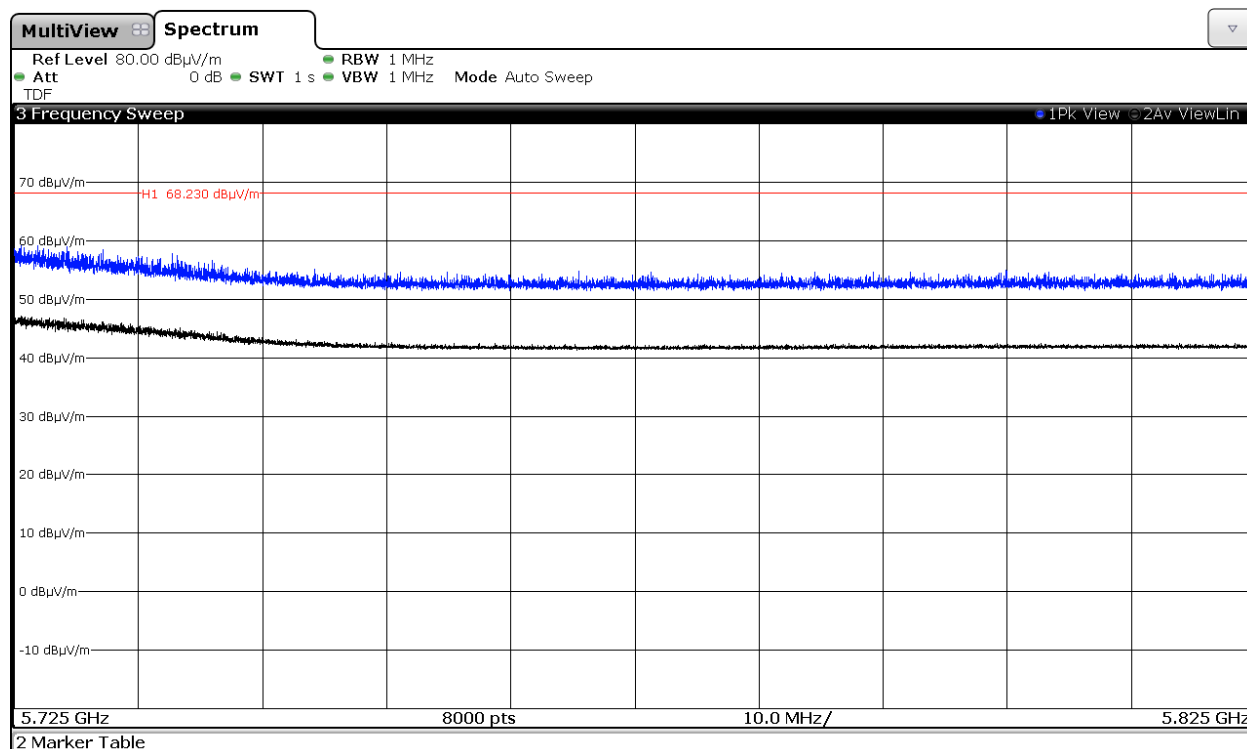
## Radiated spurious emissions at band-edges and inside adjacent band 5.725 – 5.825 GHz.

### 1. WiFi 5GHz 802.11 a mode

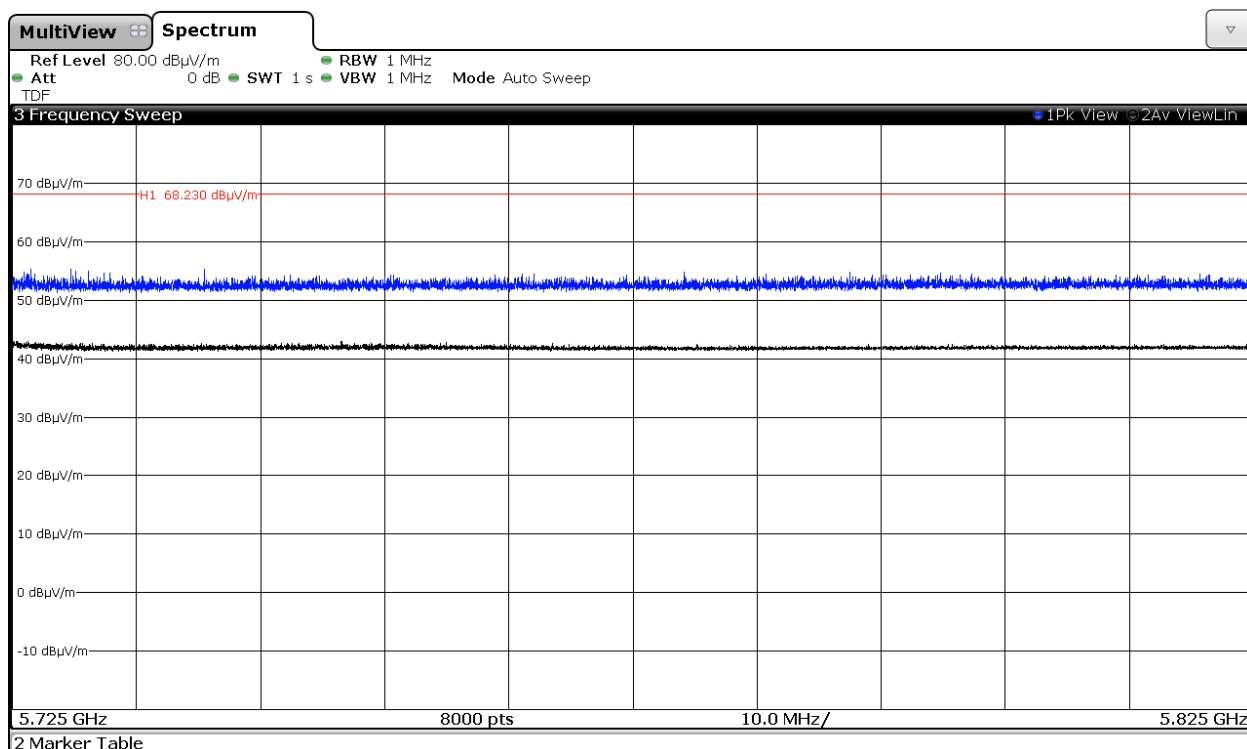
Channel 136. 5680MHz. Chain A.



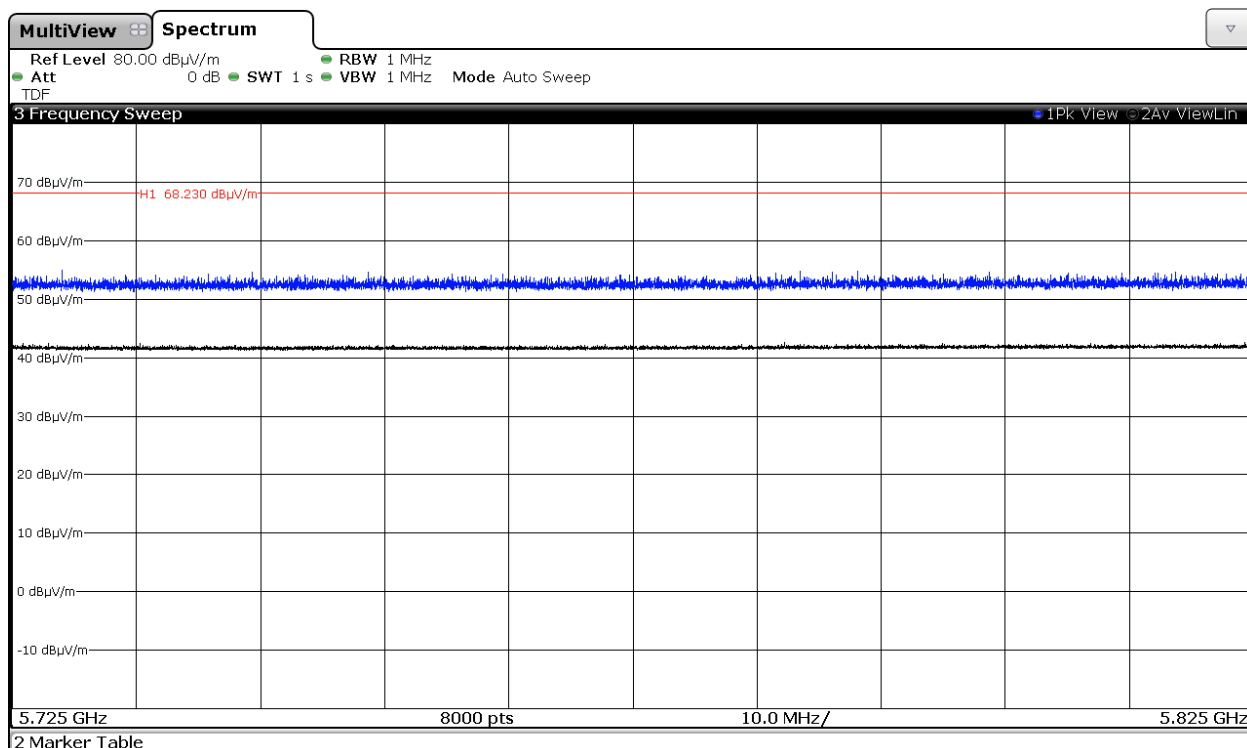
Channel 136. 5680MHz. Chain B.



Highest Channel (140) 5700 MHz. Chain A.

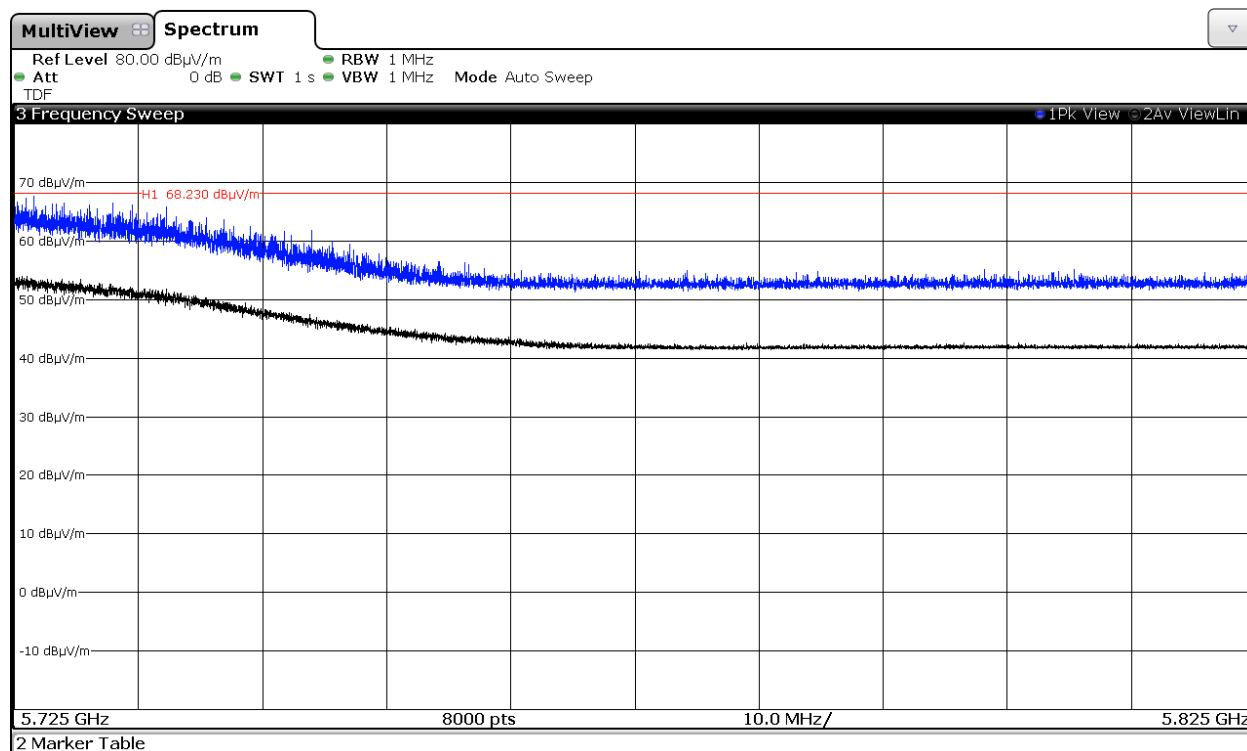


Highest Channel (140) 5700 MHz. Chain B.

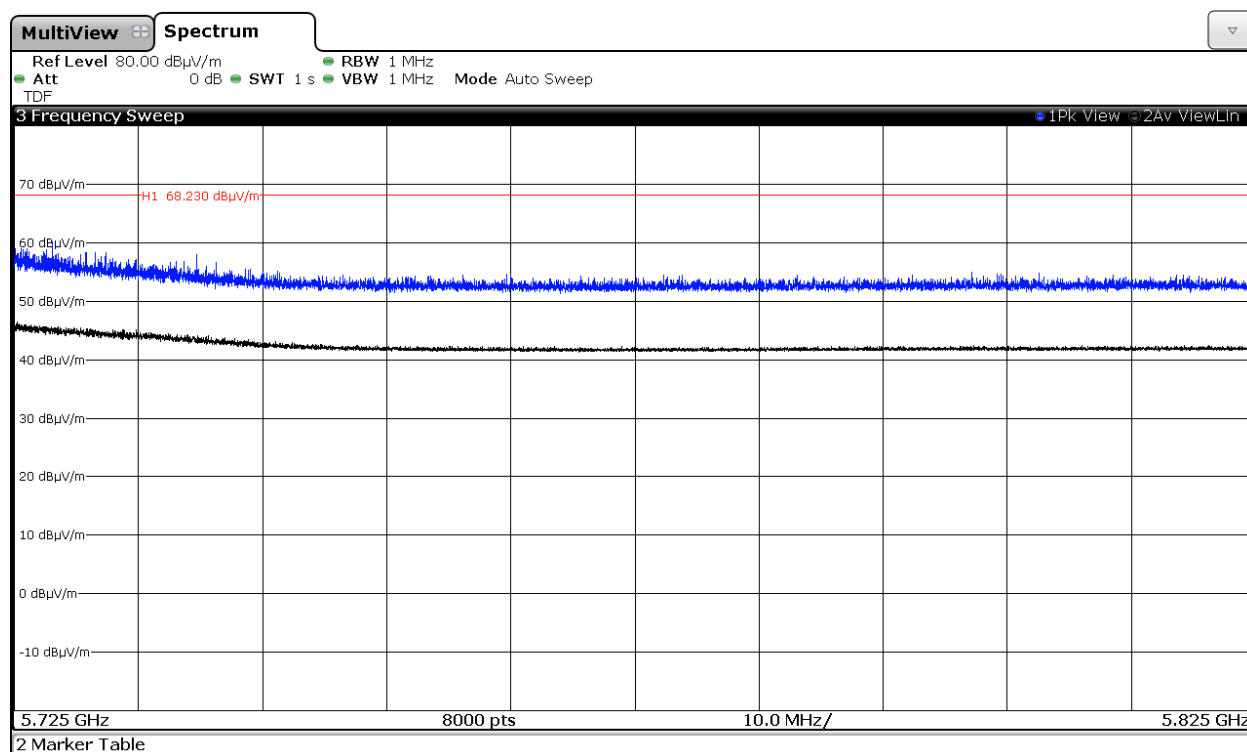


## 2. WiFi 5GHz 802.11 n20 mode

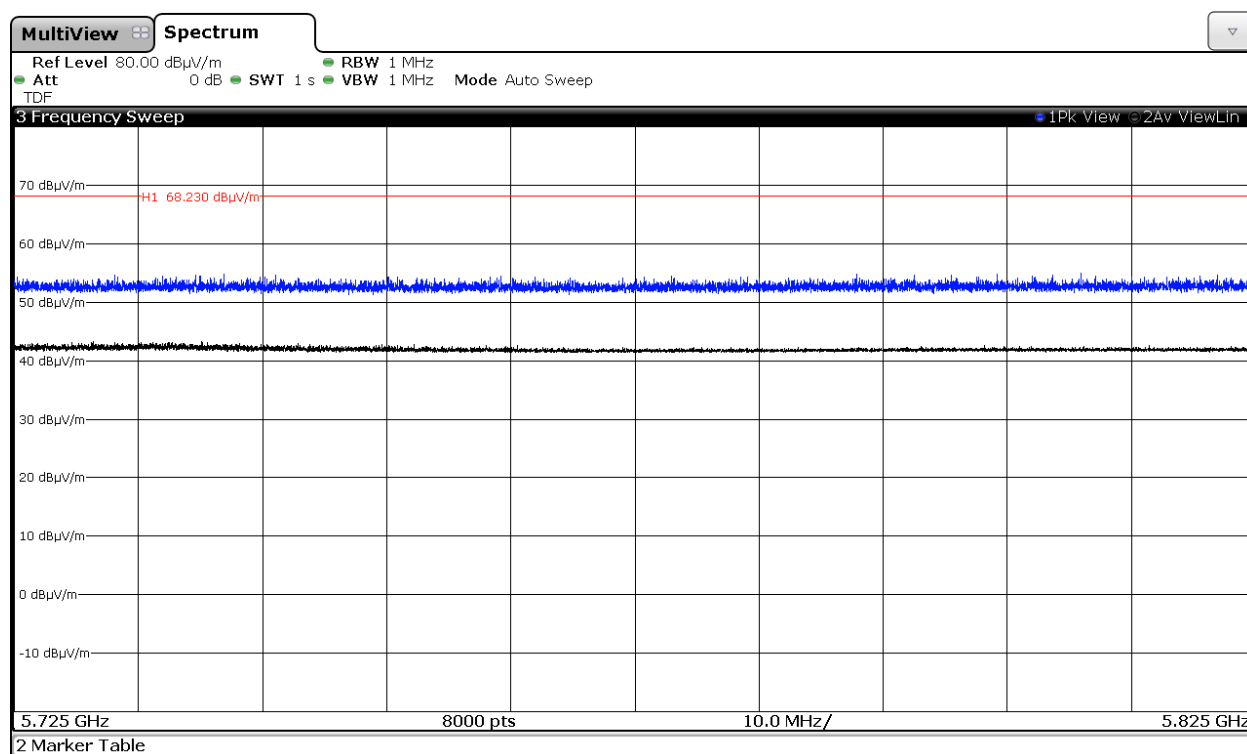
Channel 136. 5680MHz. Chain A.



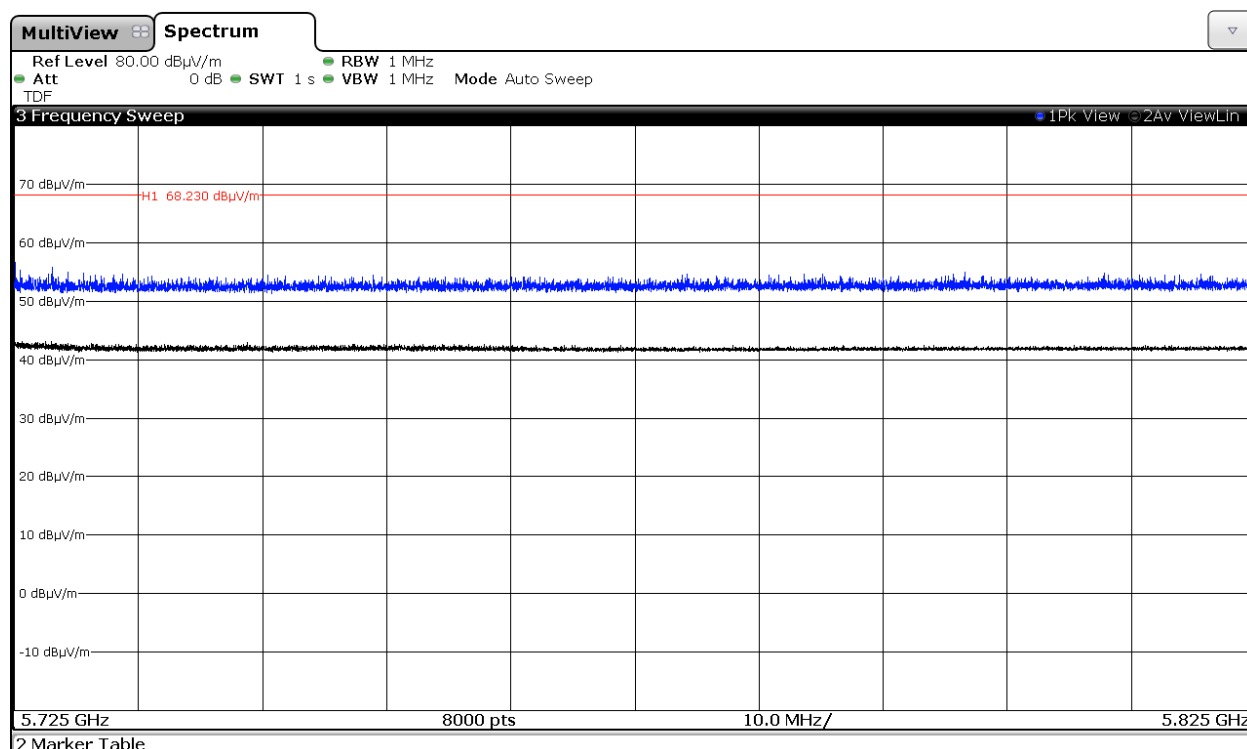
Channel 136. 5680MHz. Chain B.



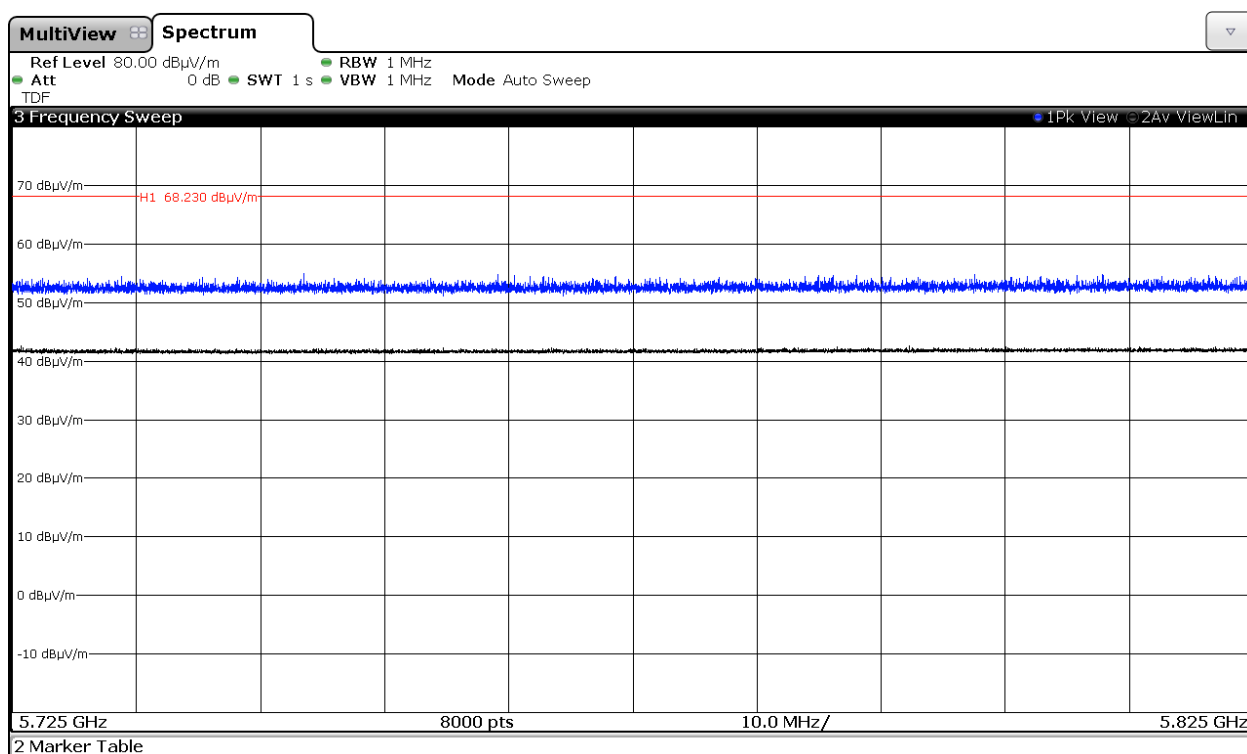
Channel 136. 5680MHz. Chain A+B.



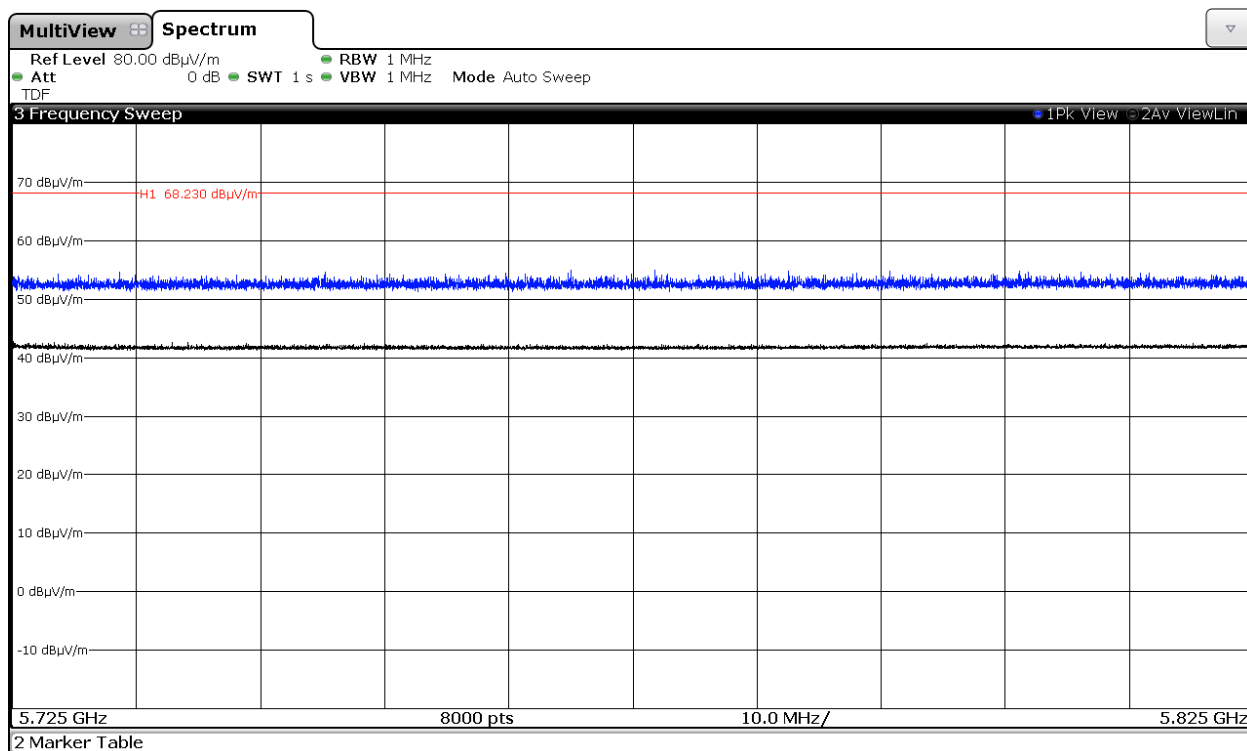
Highest Channel (140) 5700 MHz. Chain A.



Highest Channel (140) 5700 MHz. Chain B.



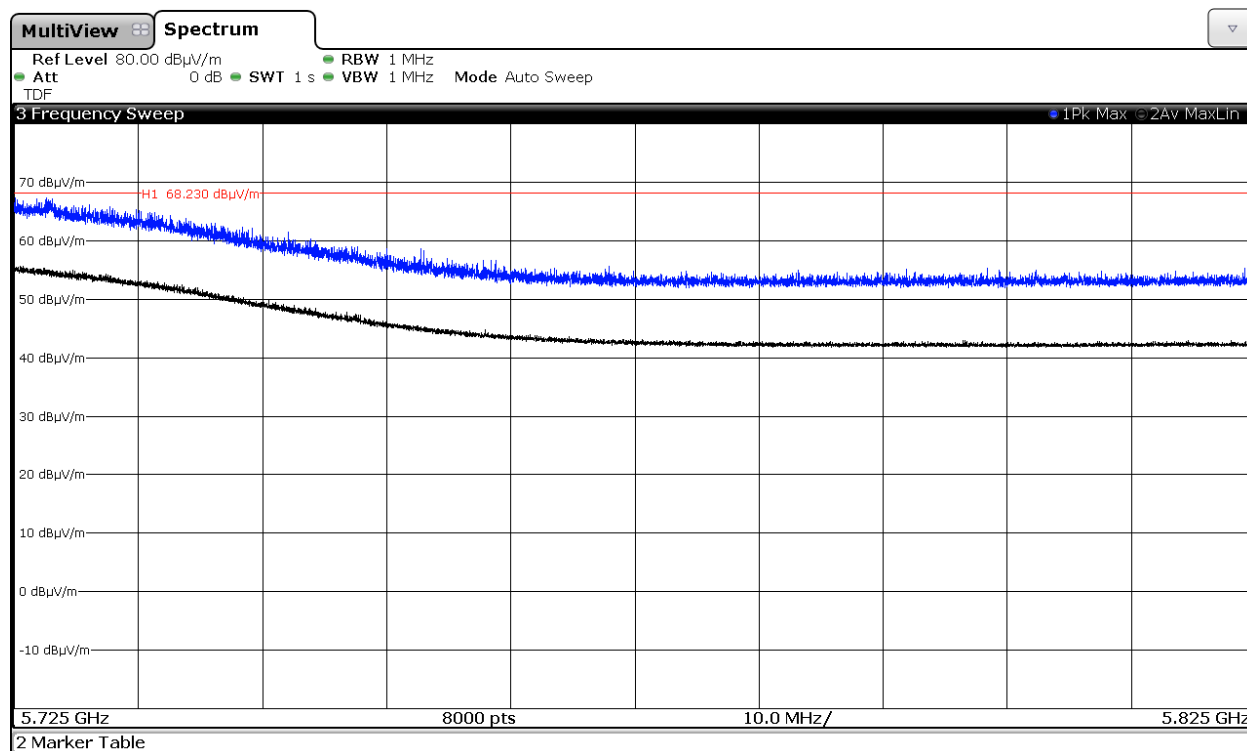
Highest Channel (140) 5700 MHz. Chain A+B.



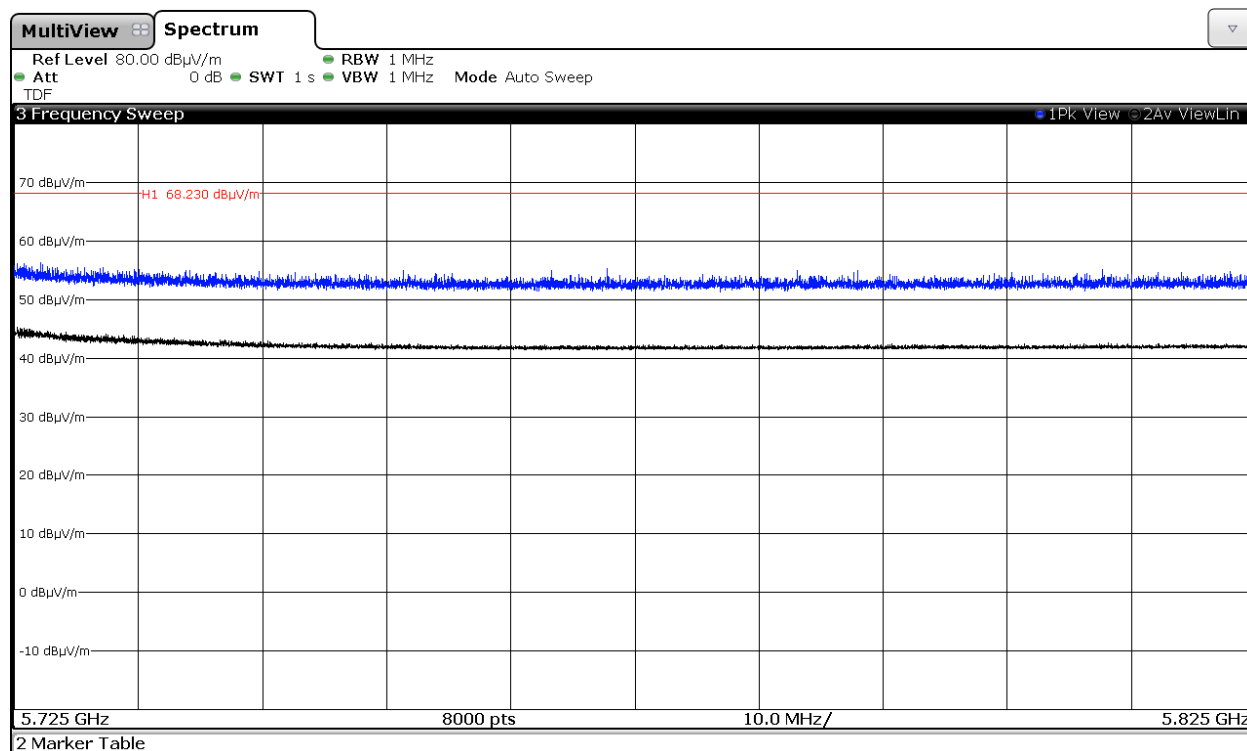


### 3. WiFi 5GHz 802.11 n40 mode

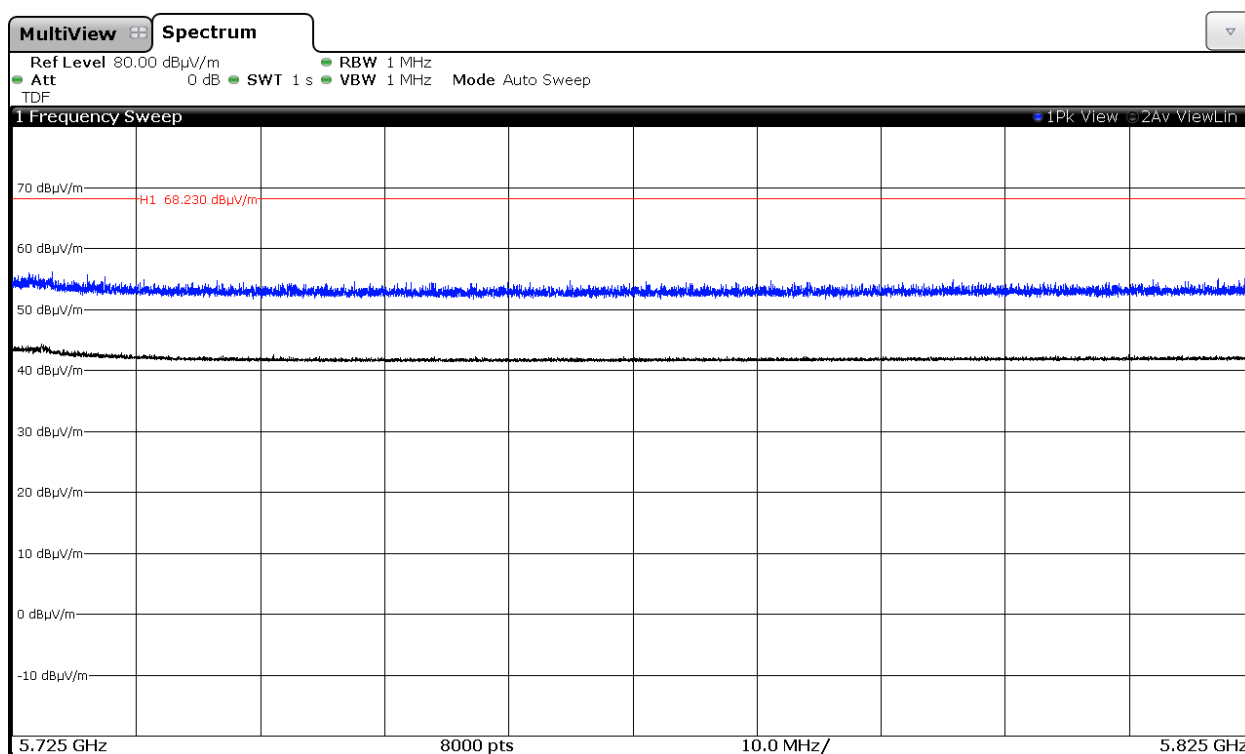
Highest Channel (134) 5670 MHz. Chain A.



Highest Channel (134) 5670 MHz. Chain B.

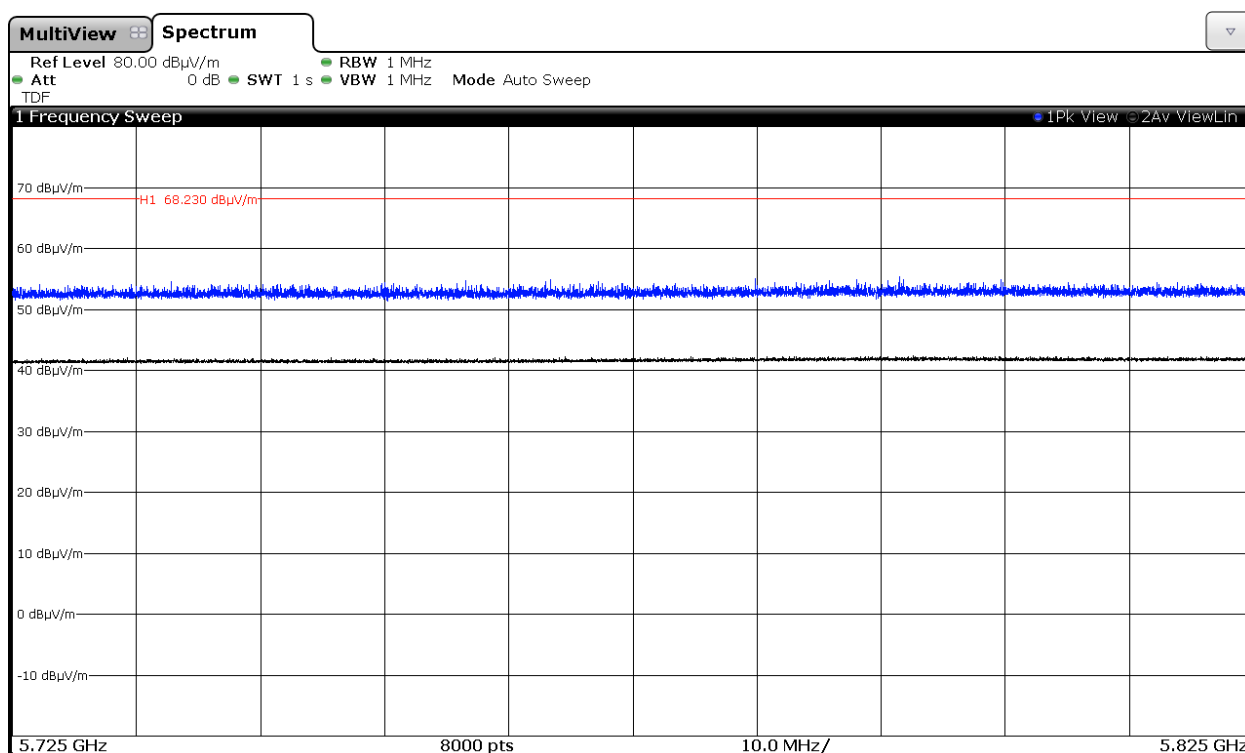


Highest Channel (134) 5670 MHz. Chain A+B.

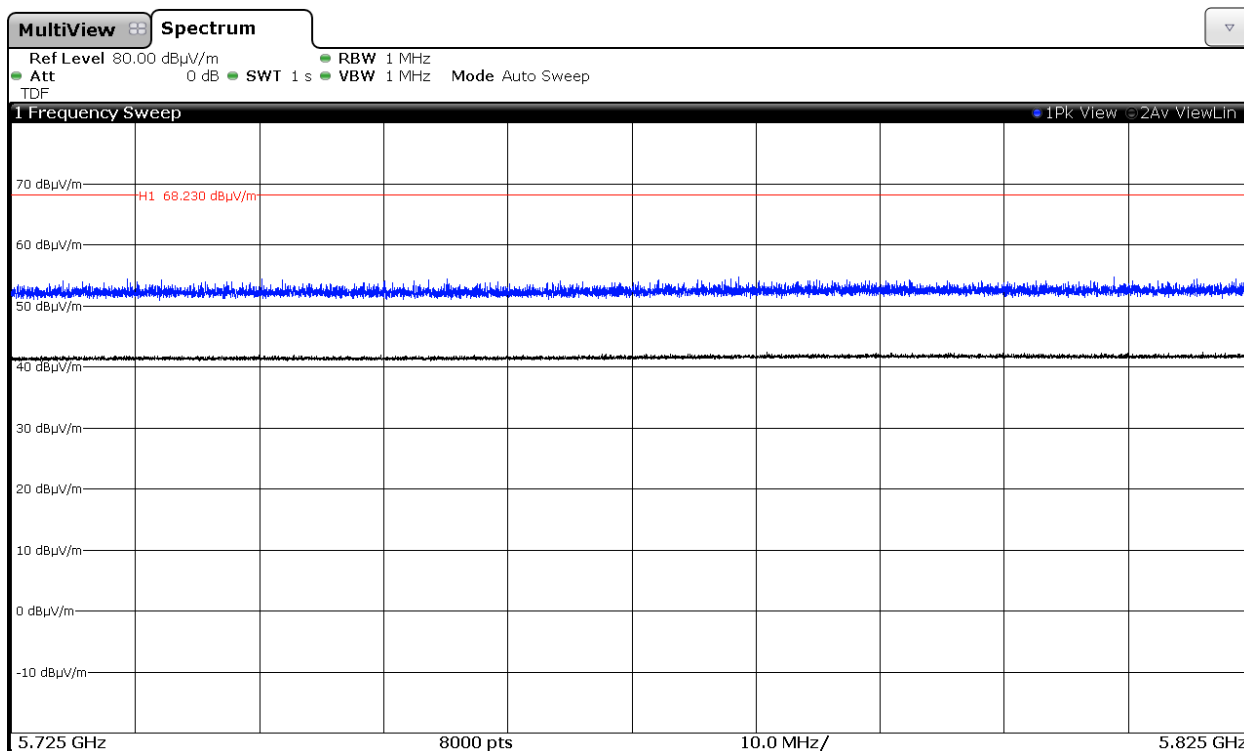


#### 4. WiFi 5GHz 802.11 ac80 mode

Middle Channel (122) 5610 MHz. Chain A.



Middle Channel (122) 5610 MHz. Chain B.



Middle Channel (122) 5610 MHz. Chain A+B.

