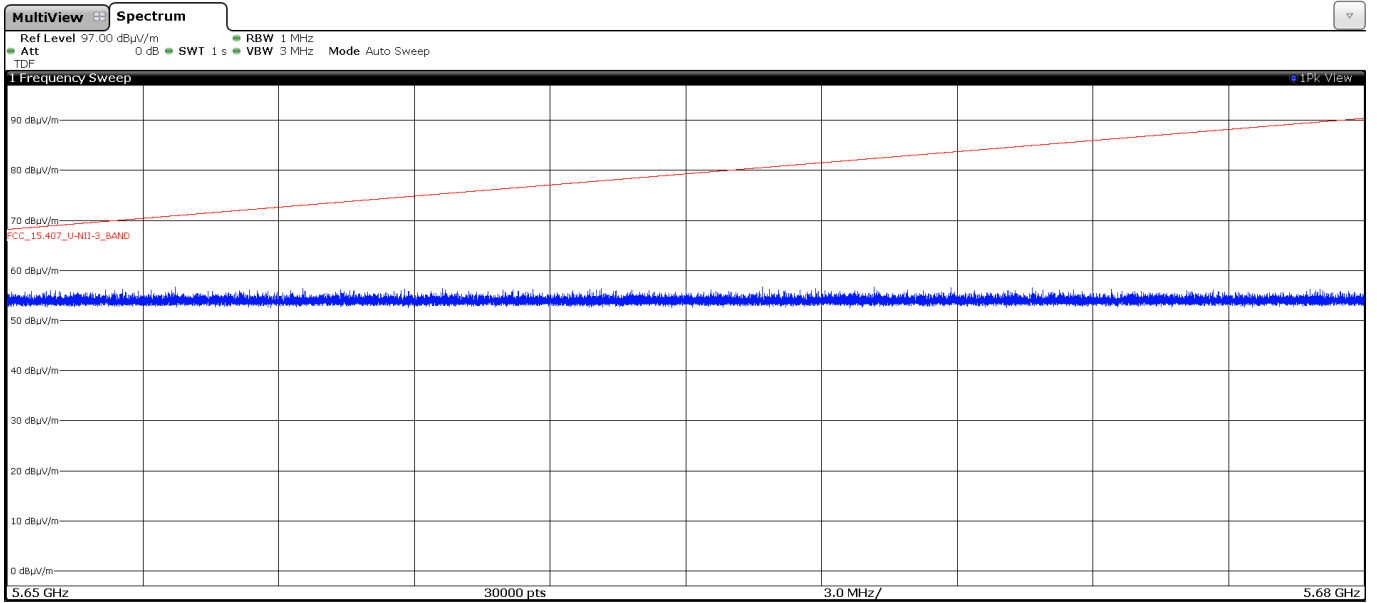
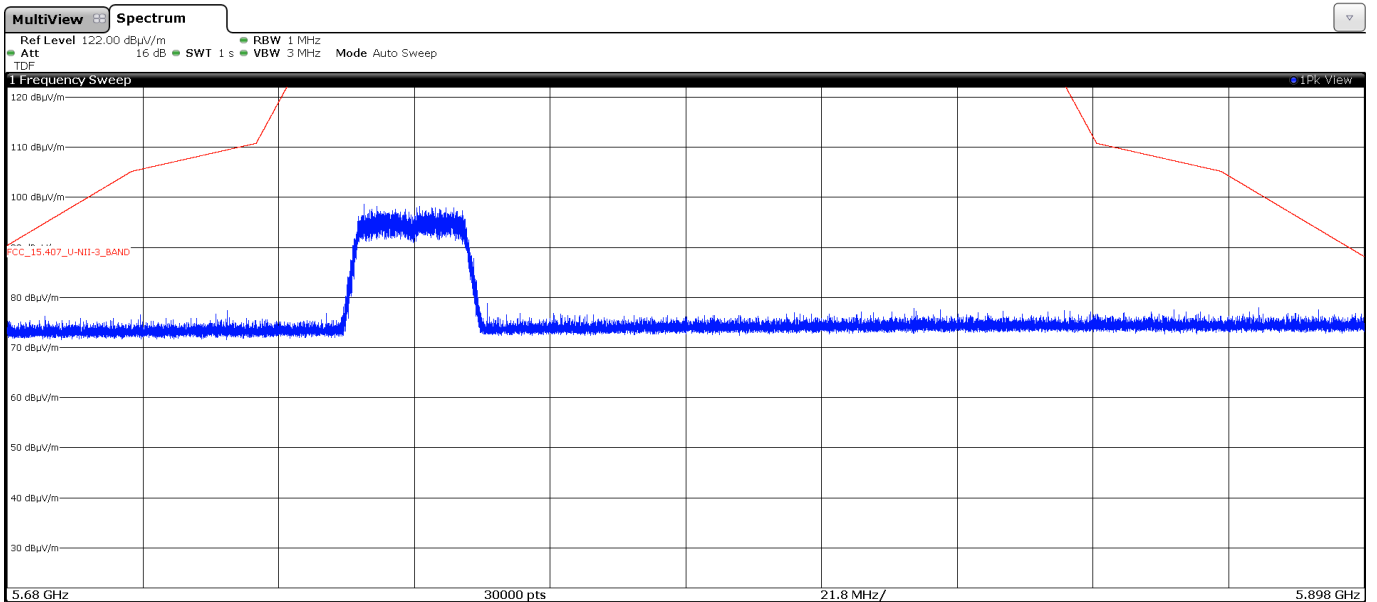


- High Channel 165 (5825 MHz):

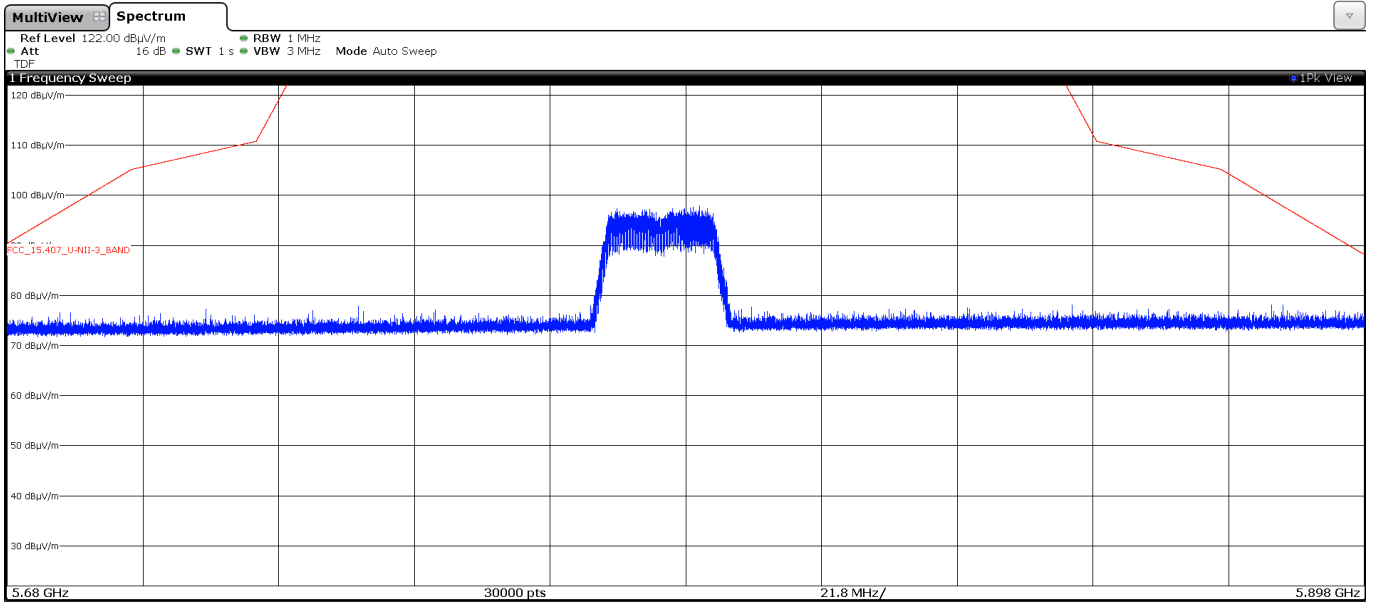


Radiated spurious emissions at band edges and inside adjacent band 5.68 – 5.898 GHz

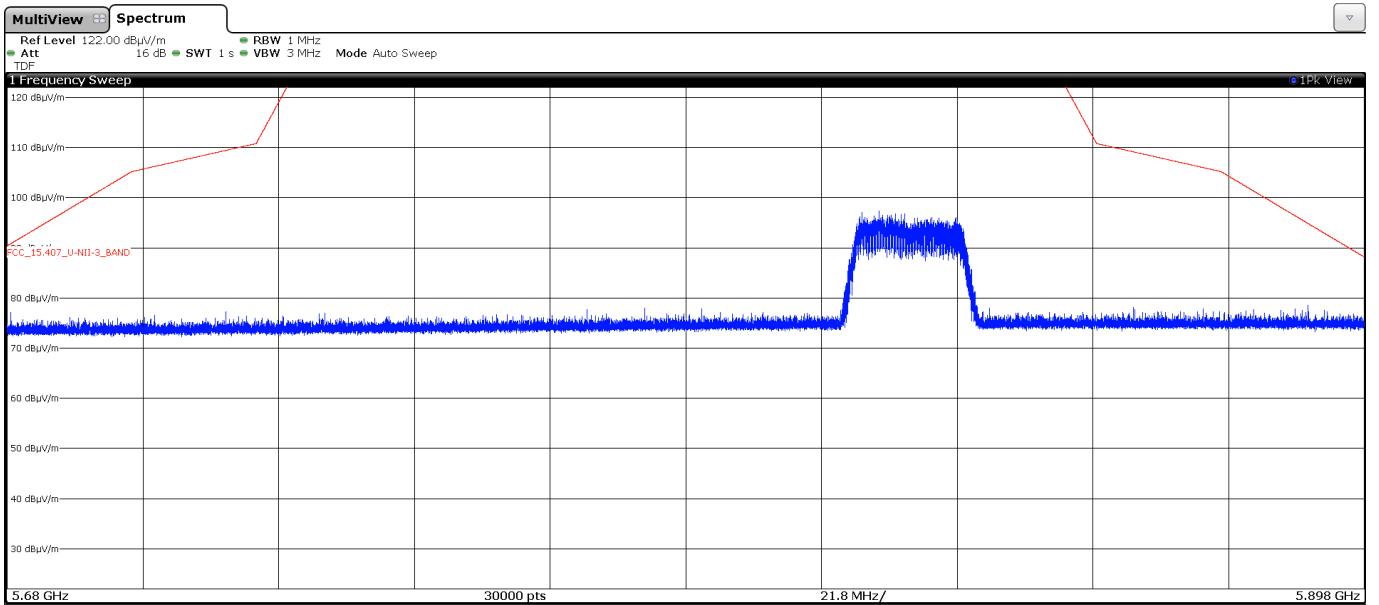
- Low Channel 149 (5745MHz):



- Middle Channel 157 (5785MHz):

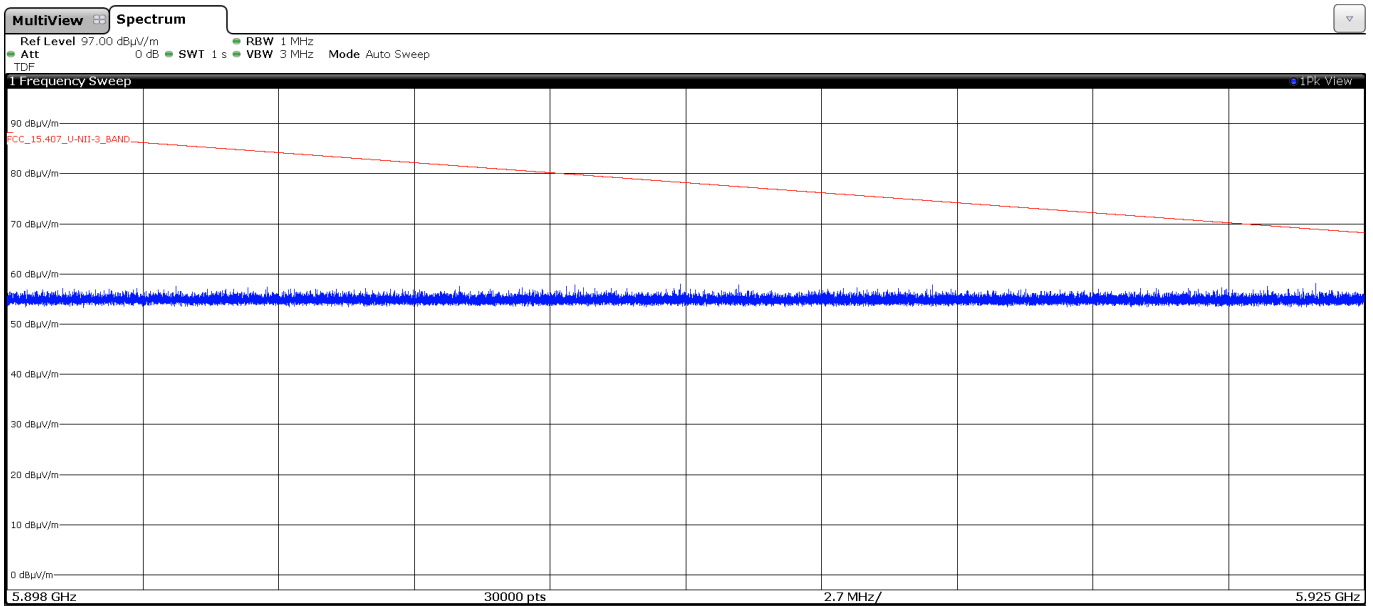


- High Channel 165 (5825MHz):

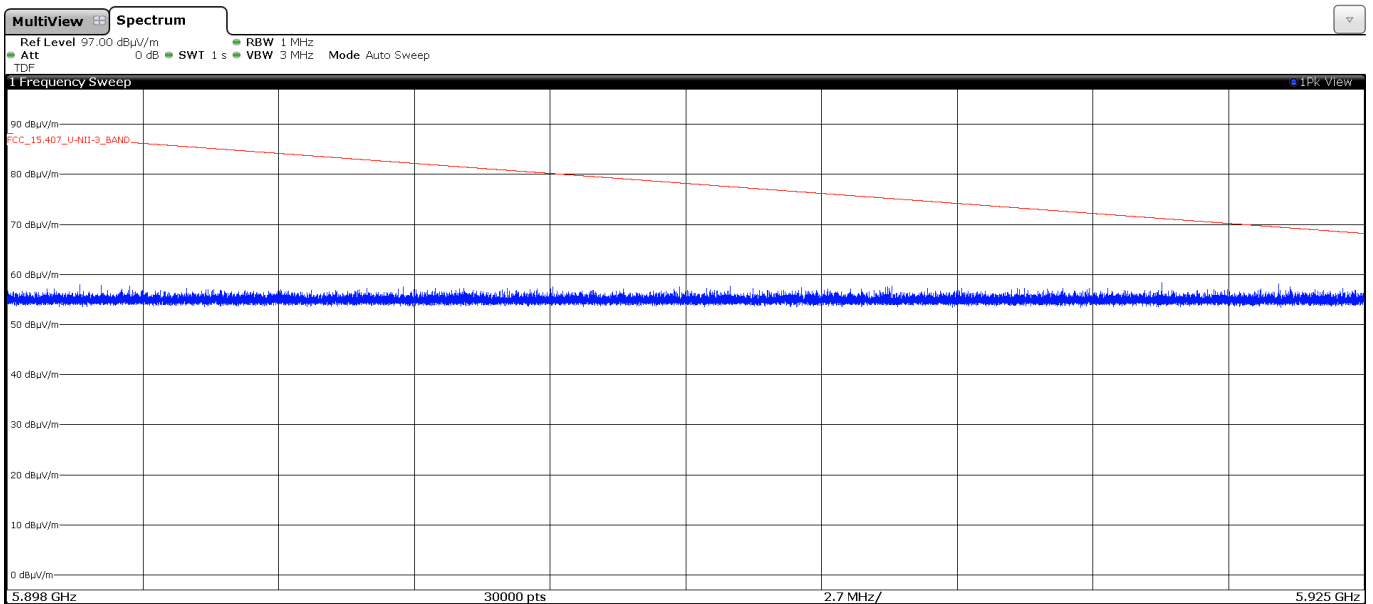


### Radiated spurious emissions at band edges and inside adjacent band 5.898 – 5.925 GHz

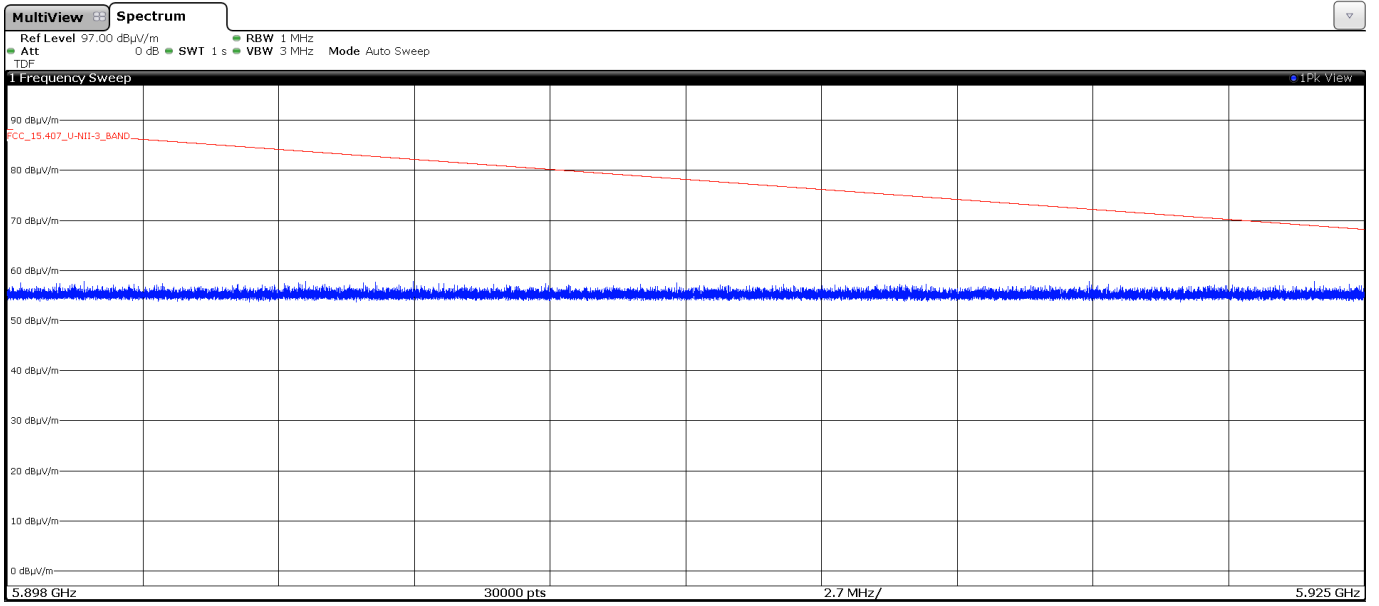
- Low Channel 149 (5745 MHz):



- Middle Channel 157 (5785 MHz):



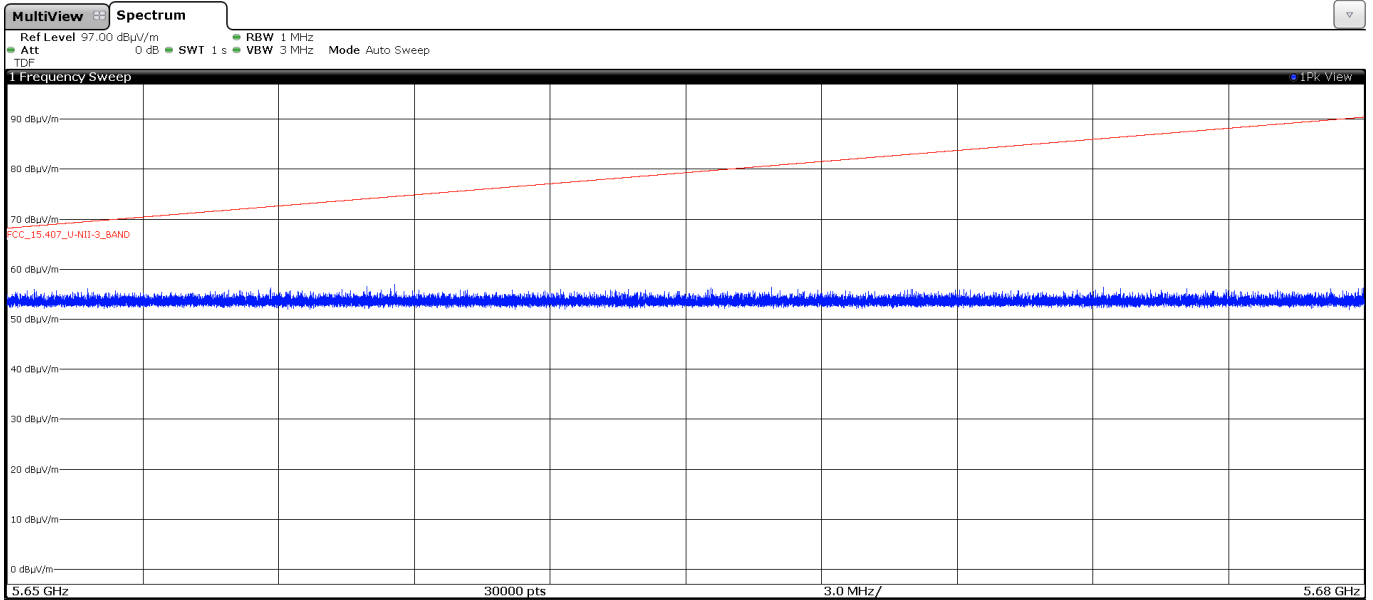
- High Channel 165 (5825 MHz):



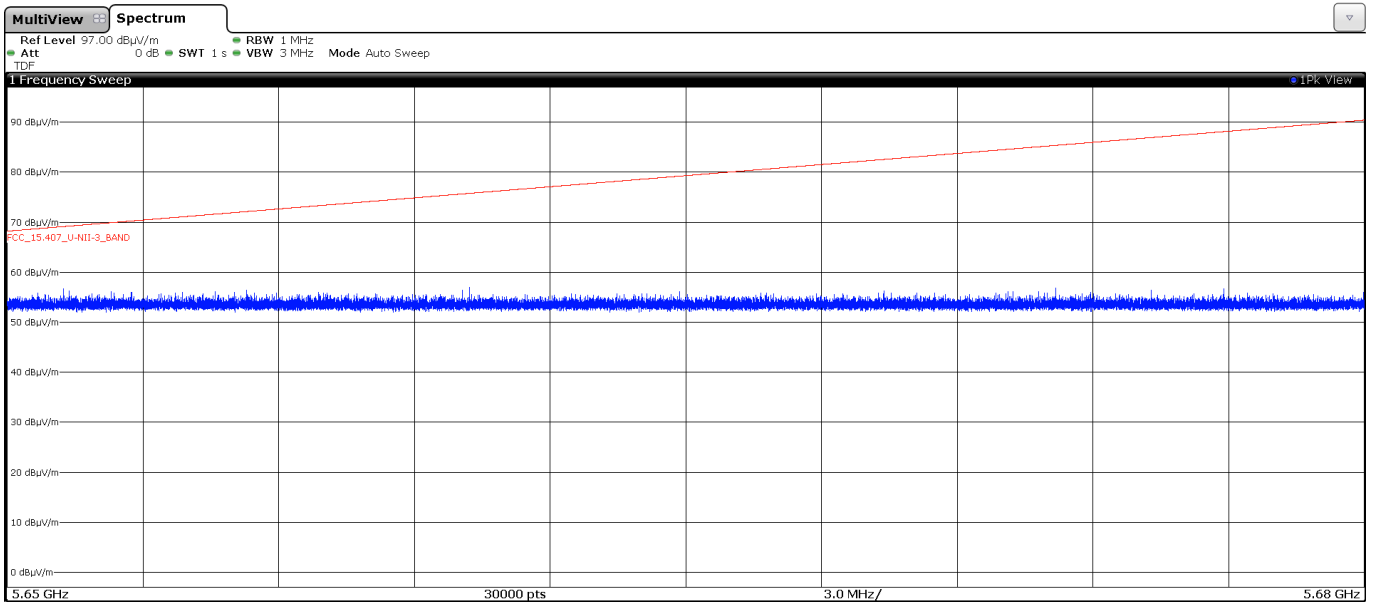
- **Mode 802.11 n40 (HT40)**

**Radiated spurious emissions at band edges and inside adjacent band 5.65 – 5.68 GHz**

- Low Channel 151 (5755 MHz):

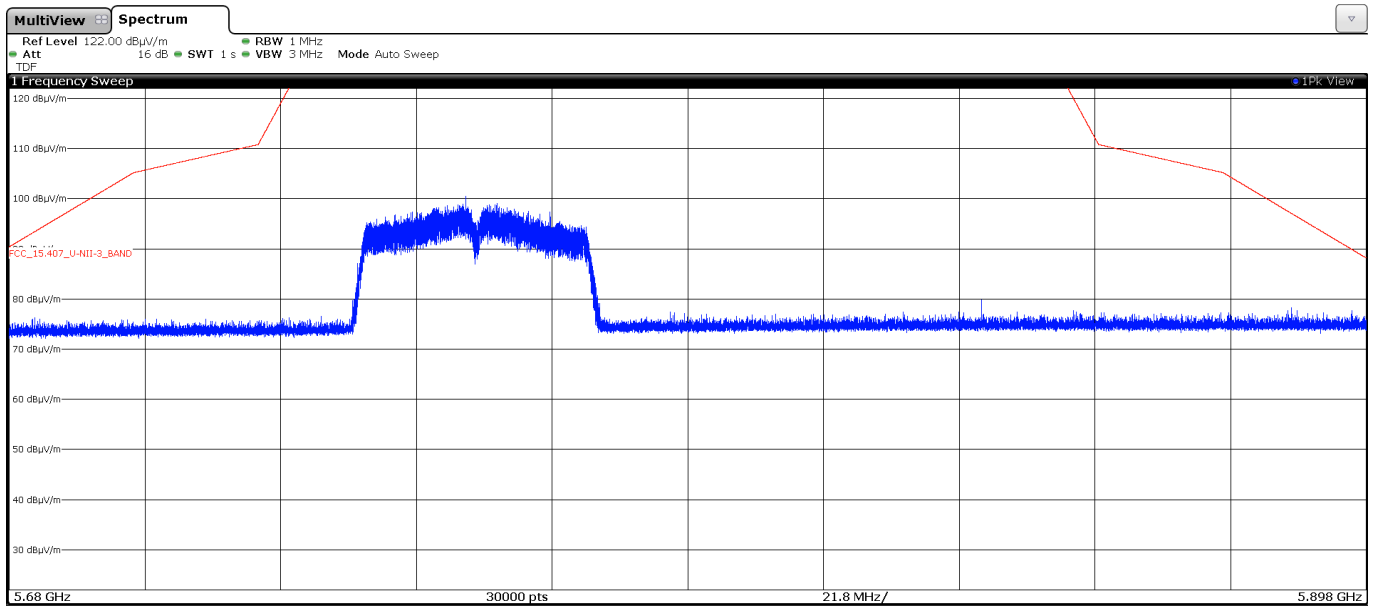


- High Channel 159 (5795 MHz):

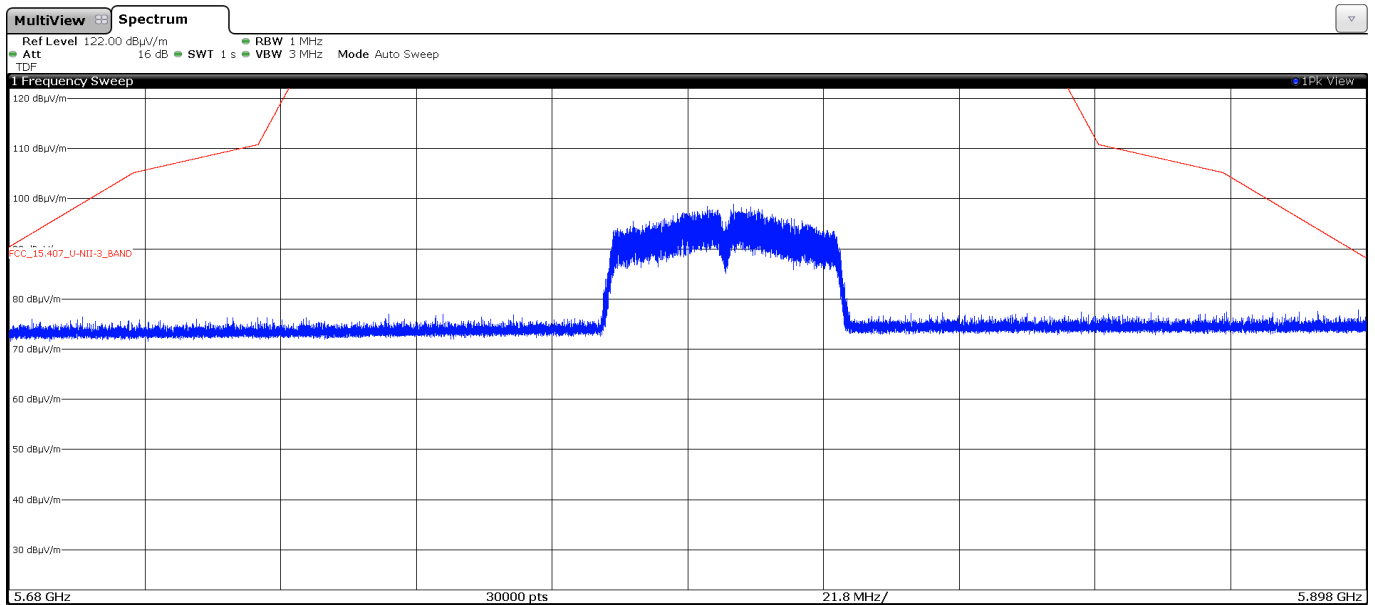


### Radiated spurious emissions at band edges and inside adjacent band 5.68 – 5.898 GHz

- Low Channel 151 (5755 MHz):

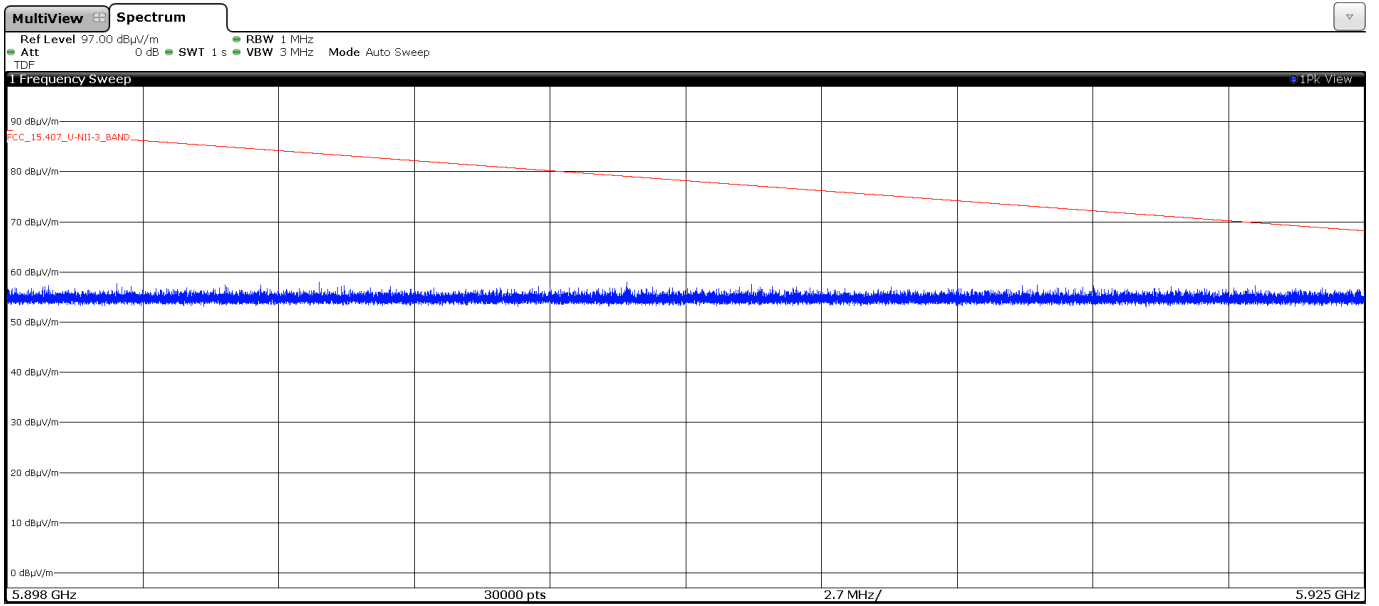


- High Channel 159 (5795 MHz):

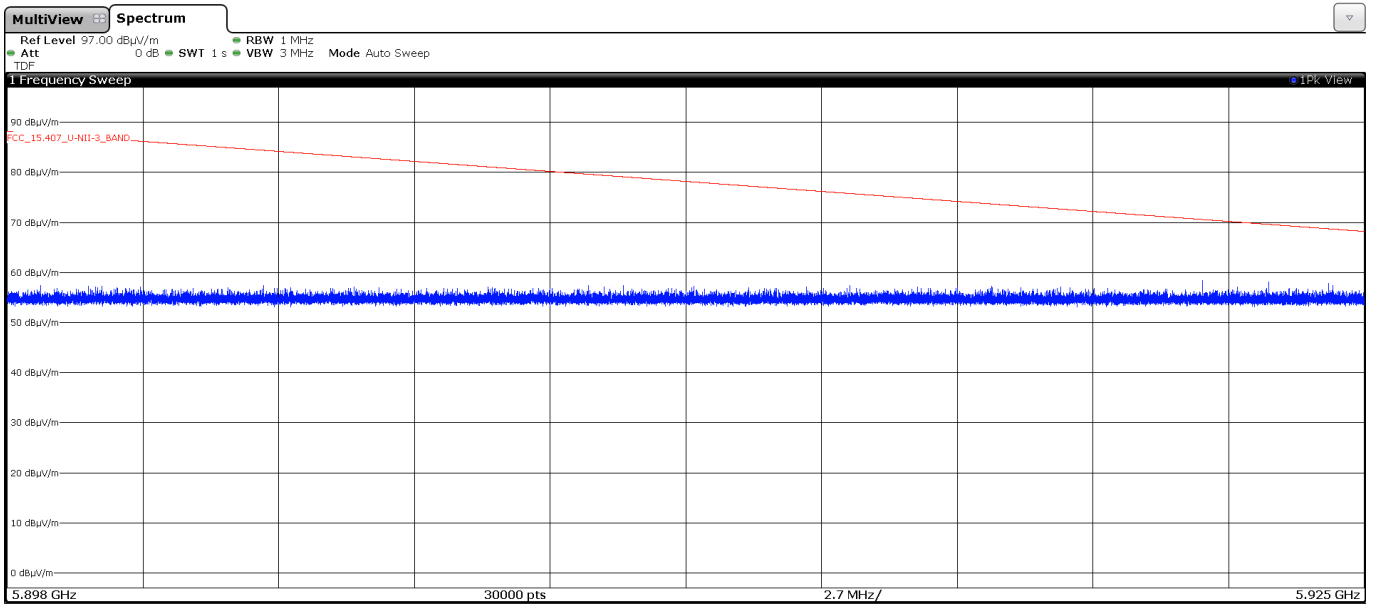


### Radiated spurious emissions at band edges and inside adjacent band 5.898 – 5.925 GHz

- Low Channel 151 (5755 MHz):



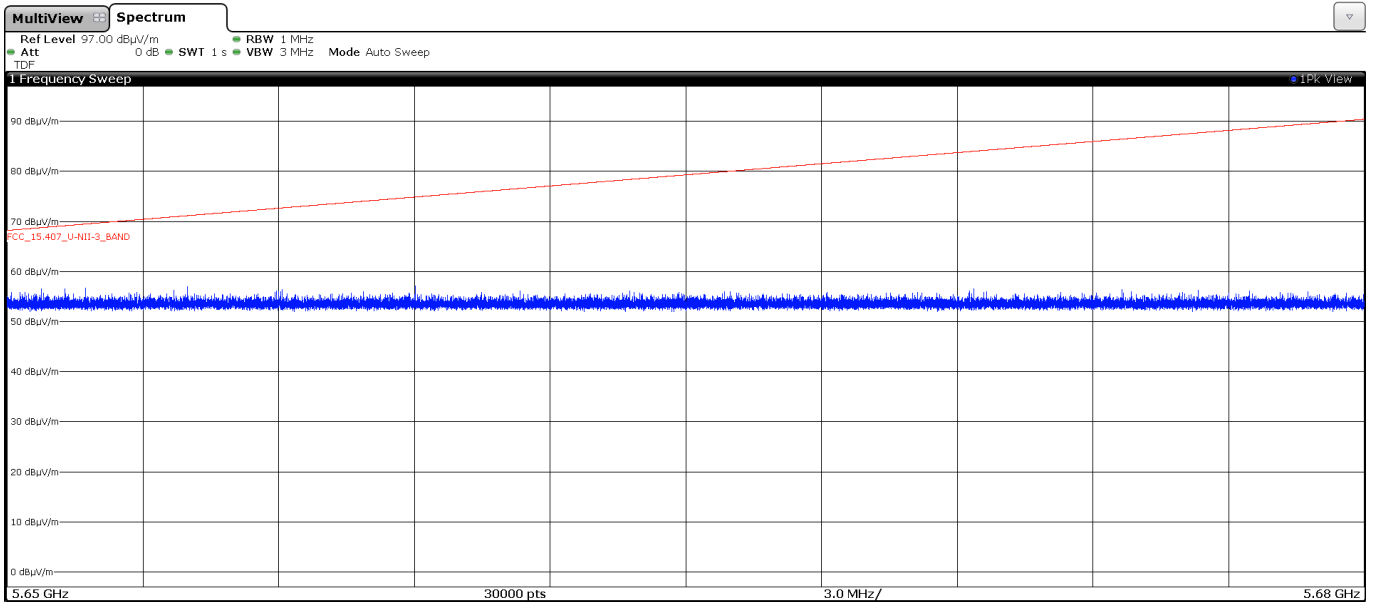
- High Channel 159 (5795 MHz):



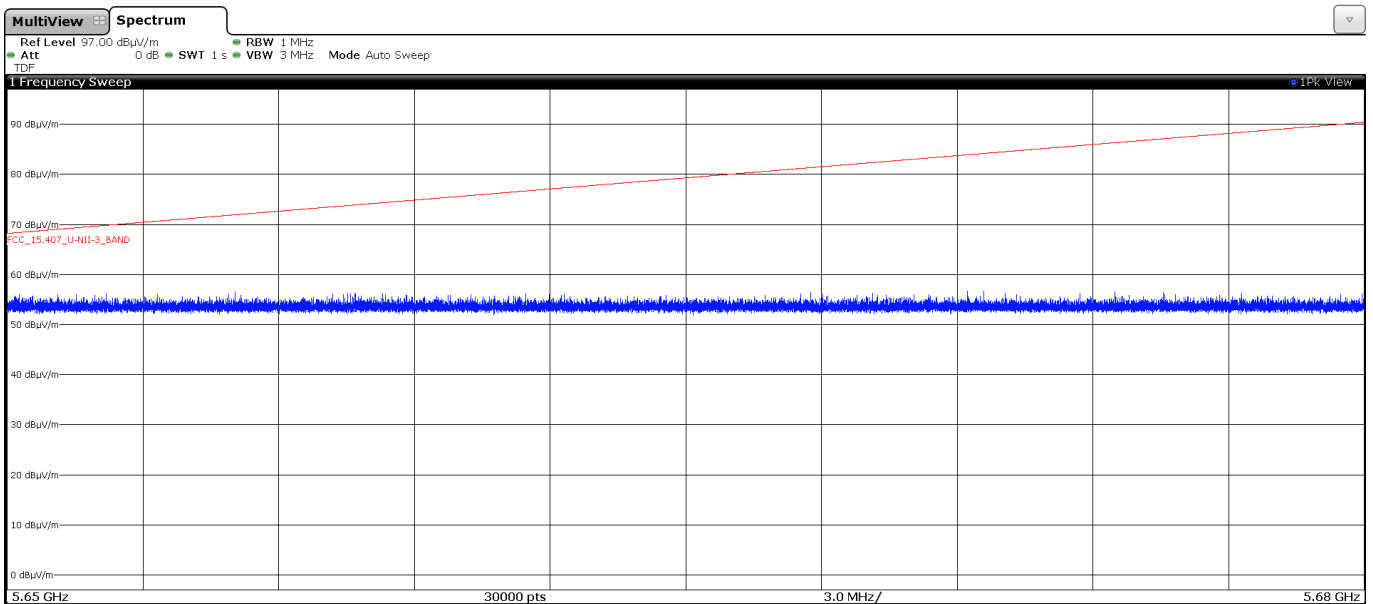
- Mode 802.11 ac40

### Radiated spurious emissions at band edges and inside adjacent band 5.65 – 5.68 GHz

- Low Channel 151 (5755 MHz):



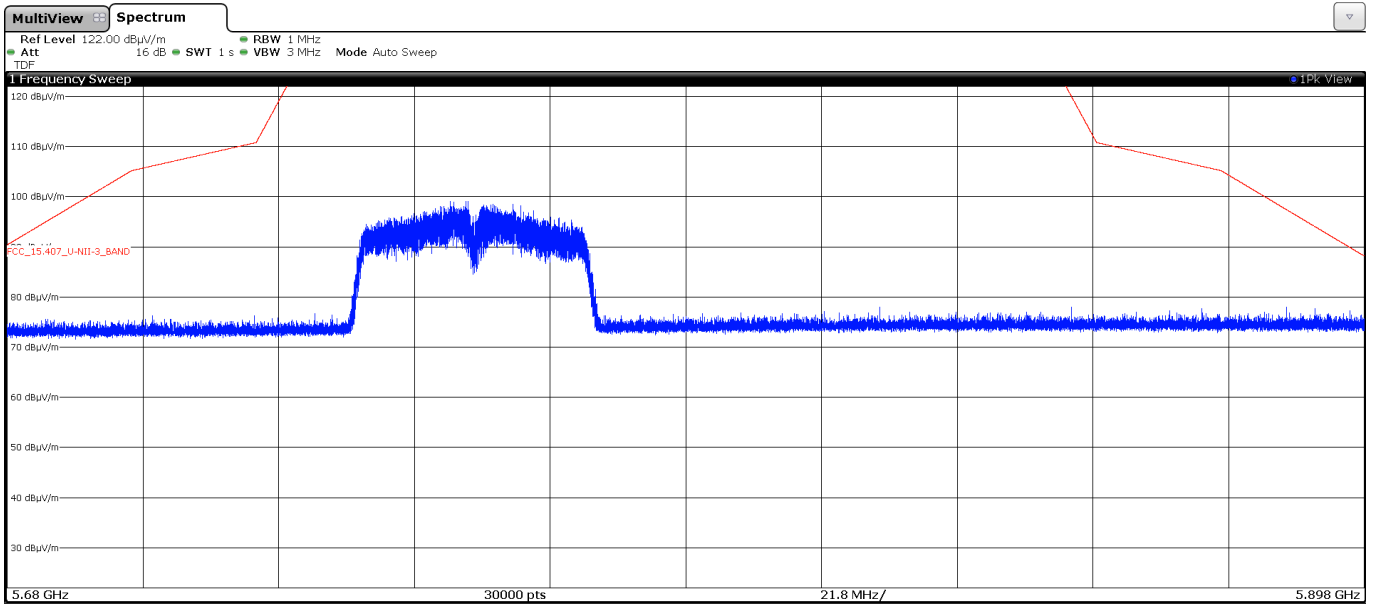
- High Channel 159 (5795 MHz):



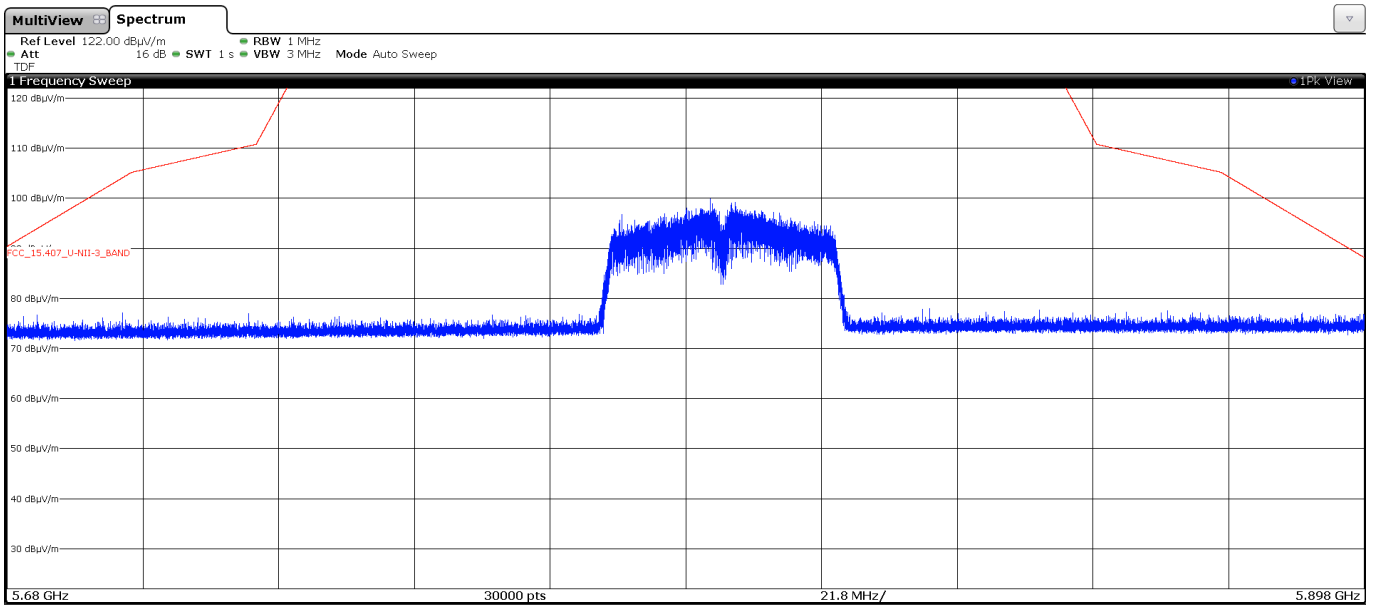


### Radiated spurious emissions at band edges and inside adjacent band 5.68 – 5.898 GHz

- Low Channel 151 (5755 MHz):

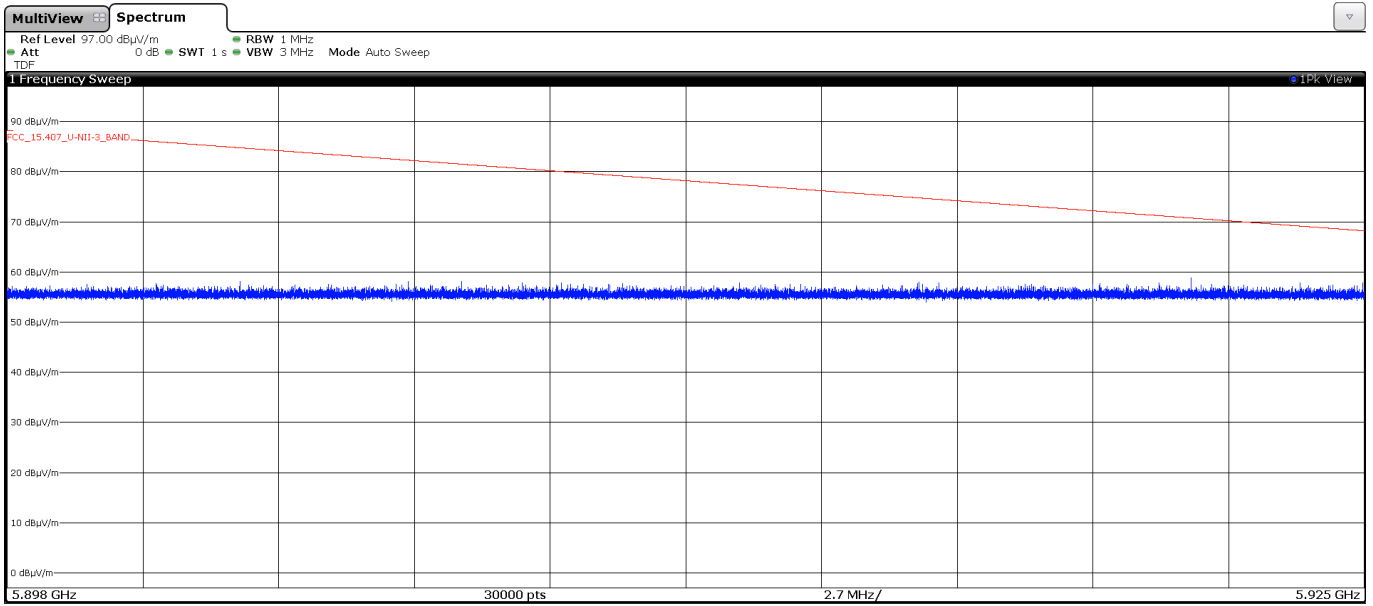


- High Channel 159 (5795 MHz):

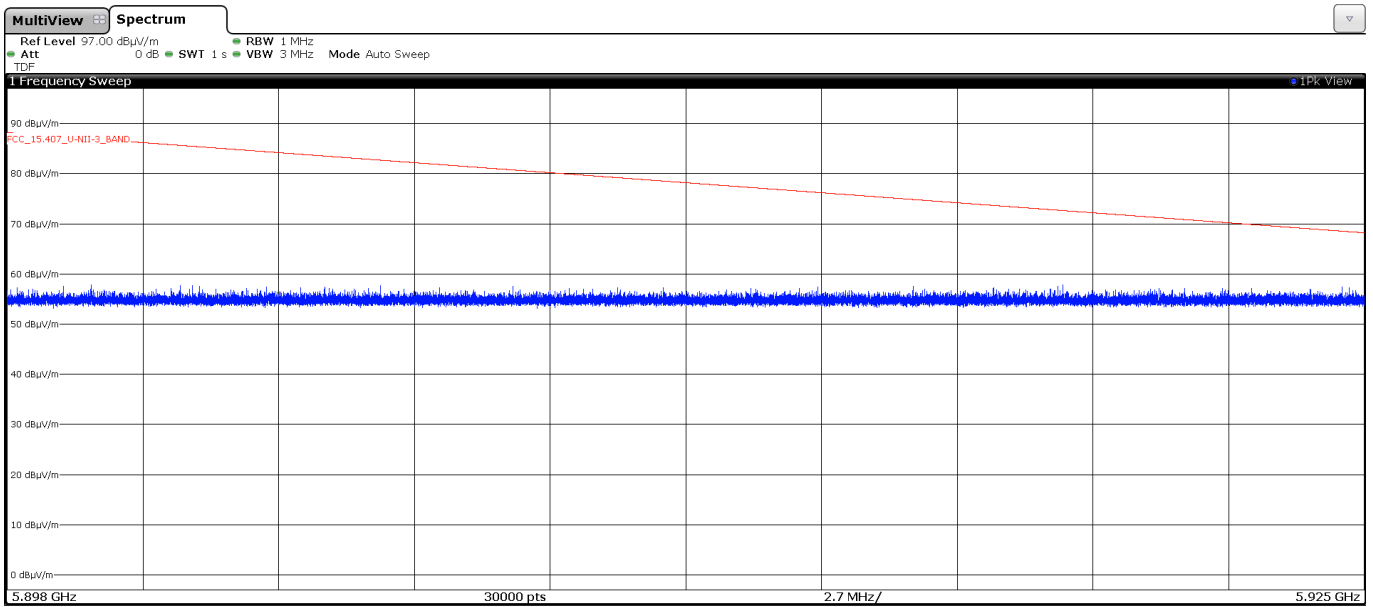


### Radiated spurious emissions at band edges and inside adjacent band 5.898 – 5.925 GHz

- Low Channel 151 (5755 MHz):



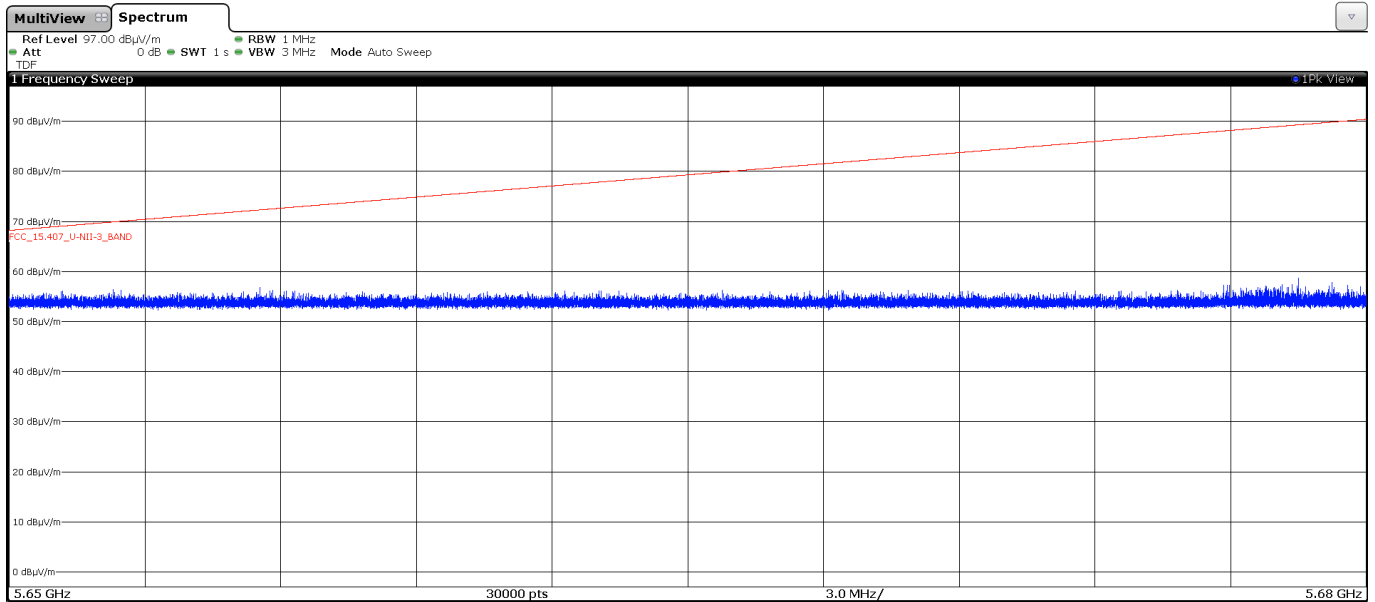
- High Channel 159 (5795 MHz):



- Mode 802.11 ac80 (VHT80)

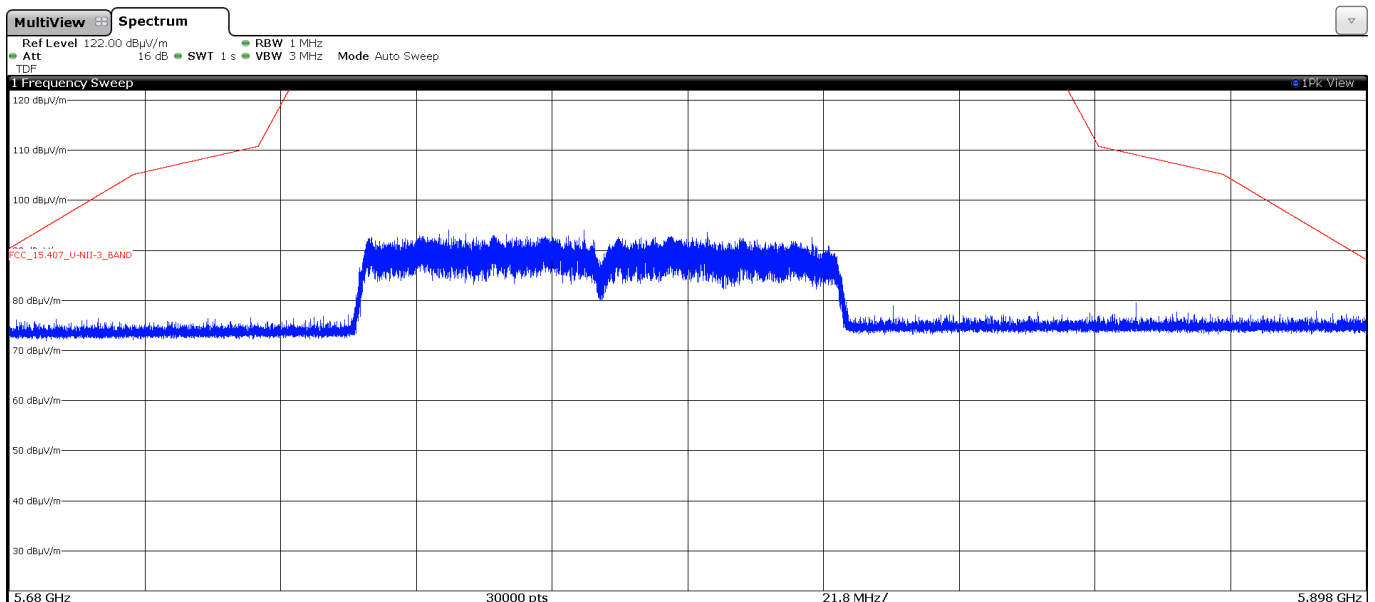
**Radiated spurious emissions at band edges and inside adjacent band 5.65 – 5.68 GHz**

- Middle Channel 155 (5775 MHz):



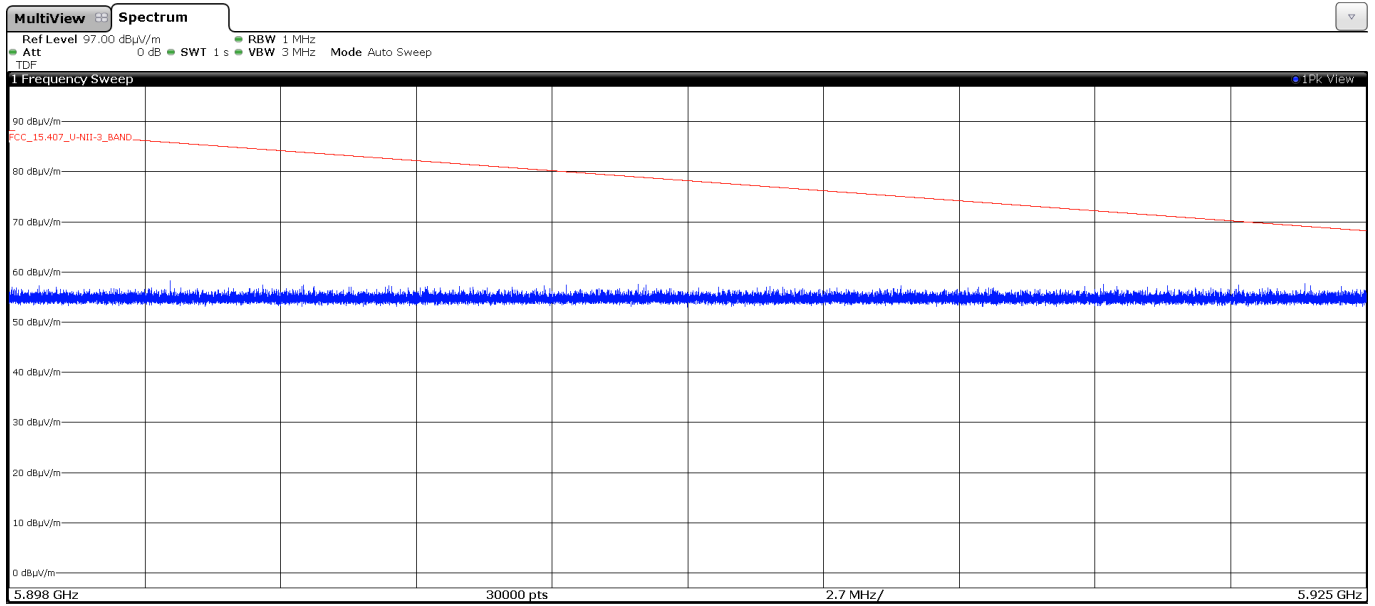
**Radiated spurious emissions at band edges and inside adjacent band 5.68 – 5.898 GHz**

- Middle Channel 155 (5775 MHz):



### Radiated spurious emissions at band edges and inside adjacent band 5.898 – 5.925 GHz

- Middle Channel 155 (5775 MHz):



**MIMO – CORE-MIMO\_Port4 & Port1 Antennas:**

**Frequency range 30 MHz - 1 GHz**

The spurious emissions below 1 GHz do not depend on either the operating channel or the modulation mode selected in the EUT.

Spurious frequencies operating (radiated) detected at less than 20 dB below the limit:

Spurious frequency (MHz)	Emission Level (dBµV/m)	Limit (dBµV/m)	Polarization	Detector	Measurement Uncertainty (dB)
250.012	26.4	46	H	Quasi-Peak	± 3.04
875.016	28.1	46	H	Quasi-Peak	± 3.04
958.468	28.6	46	H	Quasi-Peak	± 3.04

**Frequency range 1 - 40 GHz**

The results in the next tables show the maximum measured levels in the 1-40 GHz range including the 5.650 - 5.725 GHz and 5.850 - 5.925 GHz adjacent bands (see following plots).

Spurious frequencies with peak levels above the average limit (54 dBµV/m at 3 m) are measured with an average detector for checking compliance with the average limit.

OUT OF BAND EMISSIONS: For outside emissions of the band 5.65 - 5.925 GHz only the OFDM worst mode case determined after preliminary measurements was tested in the Low, Middle and High Channels.

BAND EDGES EMISSIONS: For band edge emissions of the band 5.65 – 5.725 and 5.850 - 5.925 GHz all modes were tested in the Low Middle and High Channels.

- **Mode 802.11 n20** (worst mode case)

OUT OF BAND EMISSIONS. Spurious emissions out of the band 5.65 - 5.925 GHz:

- Low Channel:

Spurious frequency (GHz)	Emission Level (dBμV/m)	Limit (dBμV/m)	Polarization	Detector	Measurement Uncertainty (dB)
5.5942	51.43	68.23	H	Peak	± 2.72
7.50013	40.22	68.23	H	Peak	± 4.72
8.49623	48.91	68.23	V	Peak	± 4.72
12.50015	42.43	68.23	V	Peak	± 4.72
11.48558	57.21	74	H	Peak	± 4.72
	47.36	54		Peak	± 4.72
17.23295	51.86	68.23	V	Peak	± 4.72

- Middle Channel:

Spurious frequency (GHz)	Emission Level (dBμV/m)	Limit (dBμV/m)	Polarization	Detector	Measurement Uncertainty (dB)
5.63733	51.67	68.23	H	Peak	± 2.72
8.49028	46.29	68.23	V	Peak	± 4.72
10.63123	50.35	68.23	V	Peak	± 4.72
7.49978	39.27	68.23	H	Peak	± 4.72
11.56608	60.81	68.23	H	Peak	± 4.72
	47.54	54		Peak	± 4.72
17.35865	49.66	68.23	V	Peak	± 3.34

- High Channel:

Spurious frequency (GHz)	Emission Level (dBμV/m)	Limit (dBμV/m)	Polarization	Detector	Measurement Uncertainty (dB)
2.13071	51.75	68.23	V	Peak	± 2.72
5.67656	51.88	68.23	H	Peak	± 4.72
5.97576	52.26	68.23	H	Peak	± 4.72
8.50533	47	68.23	V	Peak	± 4.72
10.63403	51.78	68.23	V	Peak	± 4.72
7.50013	39.87	68.23	H	Peak	± 4.72
11.64973	60.04	68.23	H	Peak	± 4.72
	49.99	68.23		Peak	± 4.72
17.47145	52.47	68.23	V	Peak	± 3.34

Verdict: PASS

BAND EDGES EMISSIONS. Spurious band edge emissions of the band 5.65 – 5.725 and 5.850 - 5.925 GHz:

- Low Channel 149 (5745 MHz): Inside band 5.65-5.68 GHz.

No radiated spurious frequencies detected at less than 20 dB below the limit.

- Middle Channel 157 (5785 MHz): Inside band 5.898-5.925 GHz.

No radiated spurious frequencies detected at less than 20 dB below the limit.

- High Channel 165 (5825 MHz): Inside band 5.898-5.925 GHz.

No radiated spurious frequencies detected at less than 20 dB below the limit.

• **Mode 802.11 n20 (HT20)**

BAND EDGES EMISSIONS. Spurious band edge emissions of the band 5.65 - 5.925 GHz:

- Low Channel 149 (5745 MHz): Inside band 5.65-5.68 GHz.

No radiated spurious frequencies detected at less than 20 dB below the limit.

- Middle Channel 157 (5785 MHz): Inside band 5.898-5.925 GHz.

No radiated spurious frequencies detected at less than 20 dB below the limit.

- High Channel 165 (5825 MHz): Inside band 5.898-5.925 GHz.

No radiated spurious frequencies detected at less than 20 dB below the limit.

• **Mode 802.11 ac20 (VHT20)**

BAND EDGES EMISSIONS. Spurious band edge emissions of the band 5.65 - 5.925 GHz:

- Low Channel 149 (5745 MHz): Inside band 5.65-5.68 GHz.

No radiated spurious frequencies detected at less than 20 dB below the limit.

- Middle Channel 157 (5785 MHz): Inside band 5.898-5.925 GHz.

No radiated spurious frequencies detected at less than 20 dB below the limit.

- High Channel 165 (5825 MHz): Inside band 5.898-5.925 GHz.

No radiated spurious frequencies detected at less than 20 dB below the limit.

- **Mode 802.11 n40 (HT40)**

BAND EDGES EMISSIONS. Spurious band edge emissions of the band 5.65 - 5.925 GHz:

- Low Channel 151 (5755 MHz): Inside band 5.65-5.68 GHz.

No radiated spurious frequencies detected at less than 20 dB below the limit.

- High Channel 159 (5795 MHz): Inside band 5.898-5.925 GHz.

No radiated spurious frequencies detected at less than 20 dB below the limit.

- **Mode 802.11 ac40 (VHT40)**

BAND EDGES EMISSIONS. Spurious band edge emissions of the band 5.65 - 5.925 GHz:

- Low Channel 151 (5755 MHz): Inside band 5.65-5.68 GHz.

No radiated spurious frequencies detected at less than 20 dB below the limit.

- High Channel 159 (5795 MHz): Inside band 5.898-5.925 GHz.

No radiated spurious frequencies detected at less than 20 dB below the limit.

- **Mode 802.11 ac80 (VHT80)**

BAND EDGES EMISSIONS. Spurious band edge emissions of the band 5.65 - 5.925 GHz:

- Single Channel 155 (5775 MHz): Inside band 5.65-5.68 GHz and 5.898-5.925 GHz.

No radiated spurious frequencies detected at less than 20 dB below the limit.

Verdict: PASS

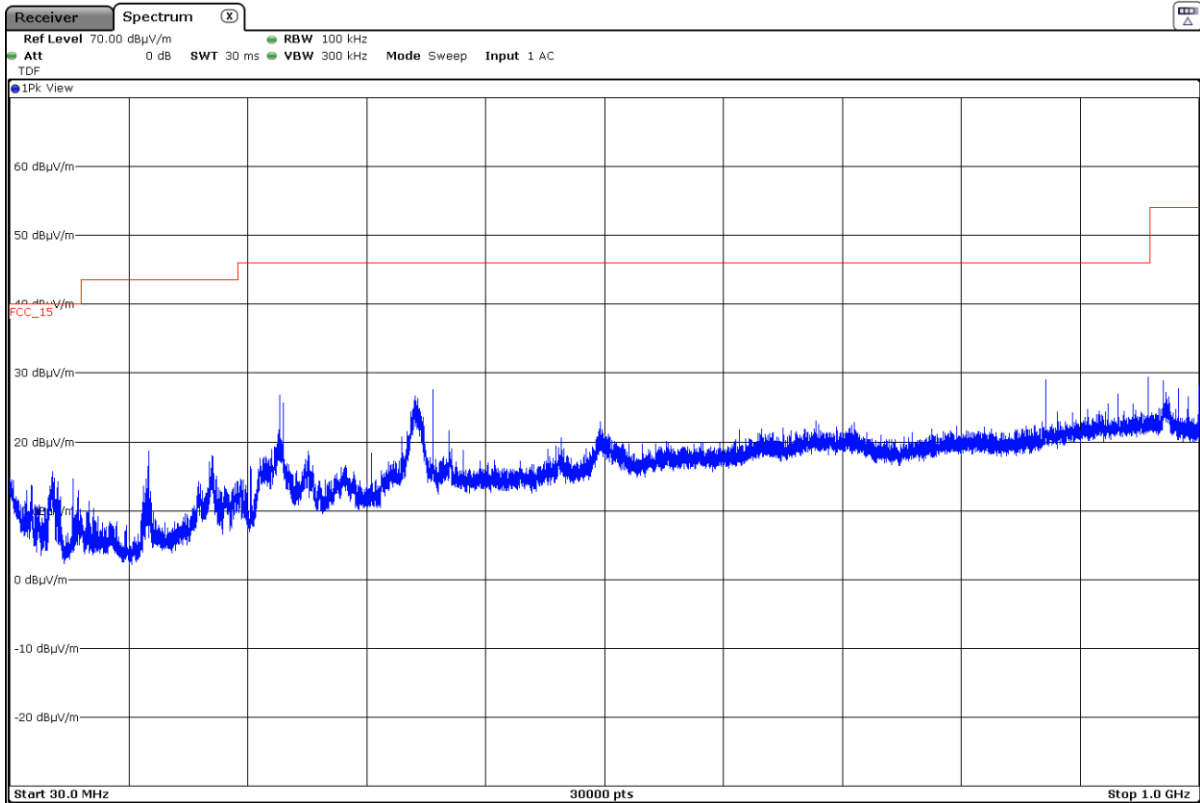


## MIMO – CORE-MIMO\_Port4 & Port1 Antenna:

### OUT OF BAND EMISSIONS

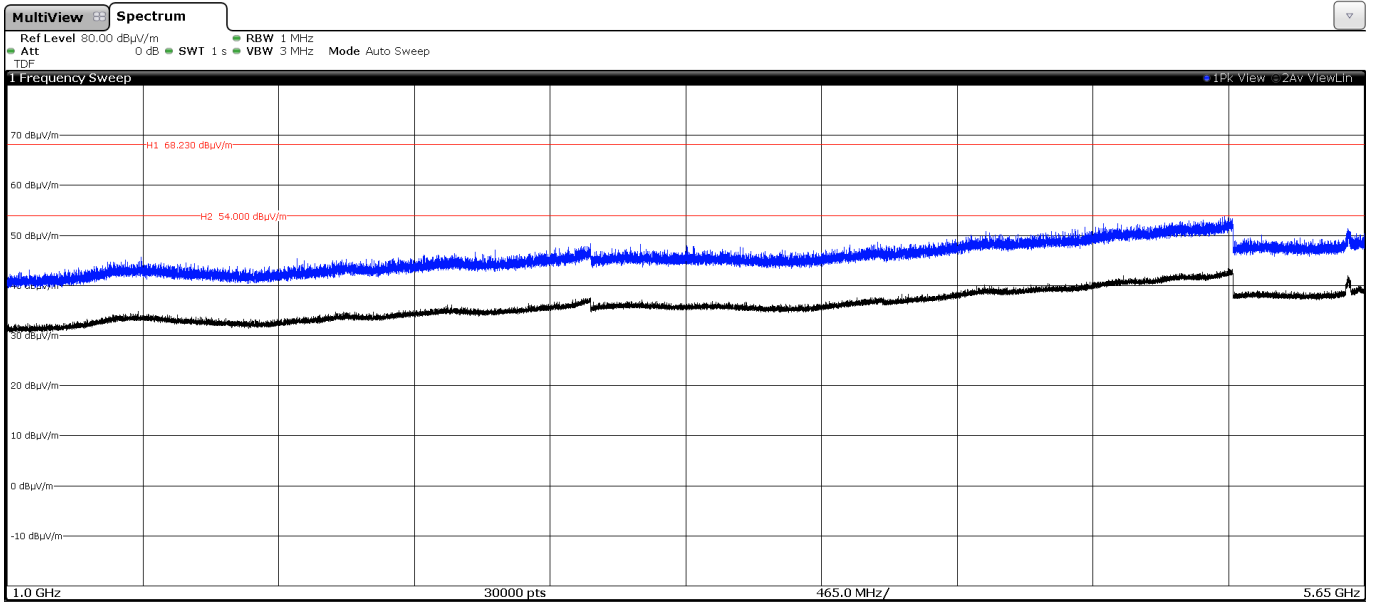
FREQUENCY RANGE 30 MHz - 1 GHz

This plot is valid for the Low, Middle and High Channels and all the modulation modes.

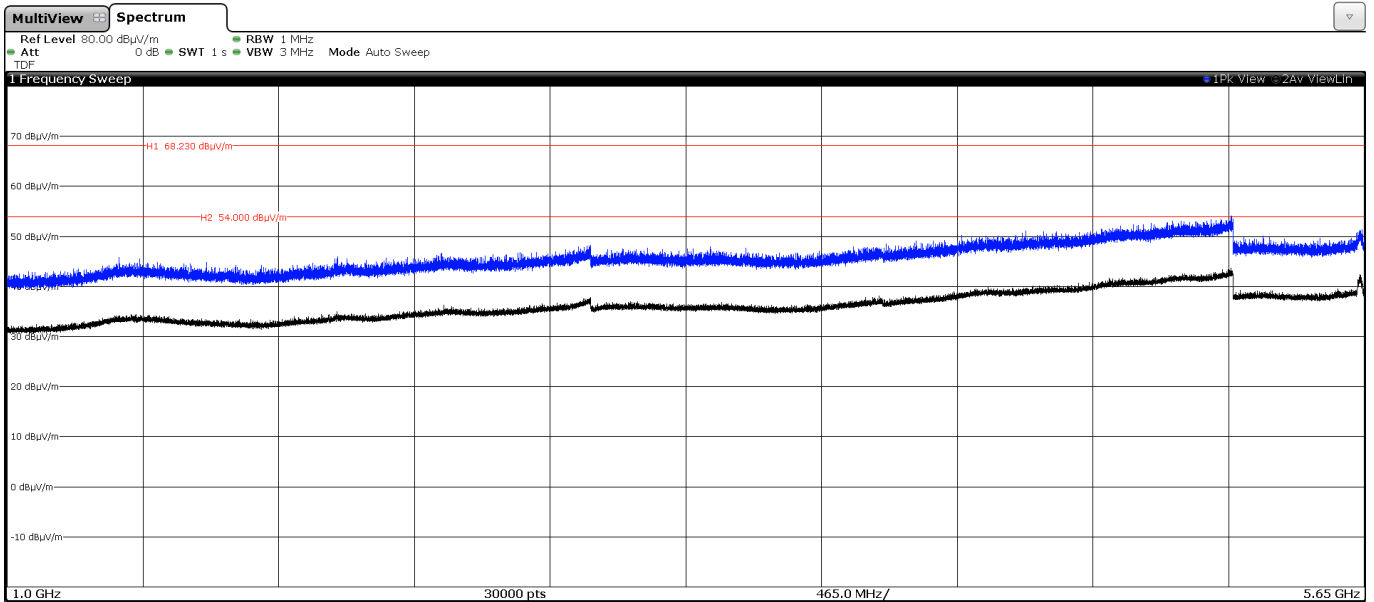


### FREQUENCY RANGE 1 – 5.65 GHz (worst mode)

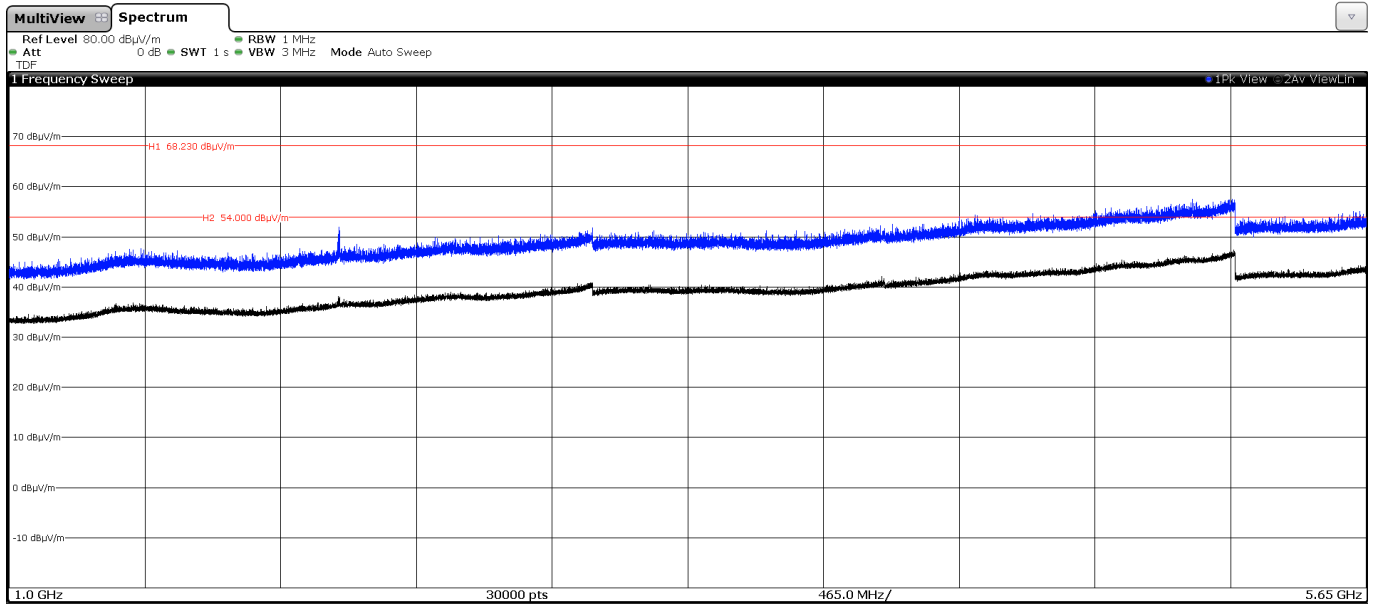
- Low Channel:



- Middle Channel:

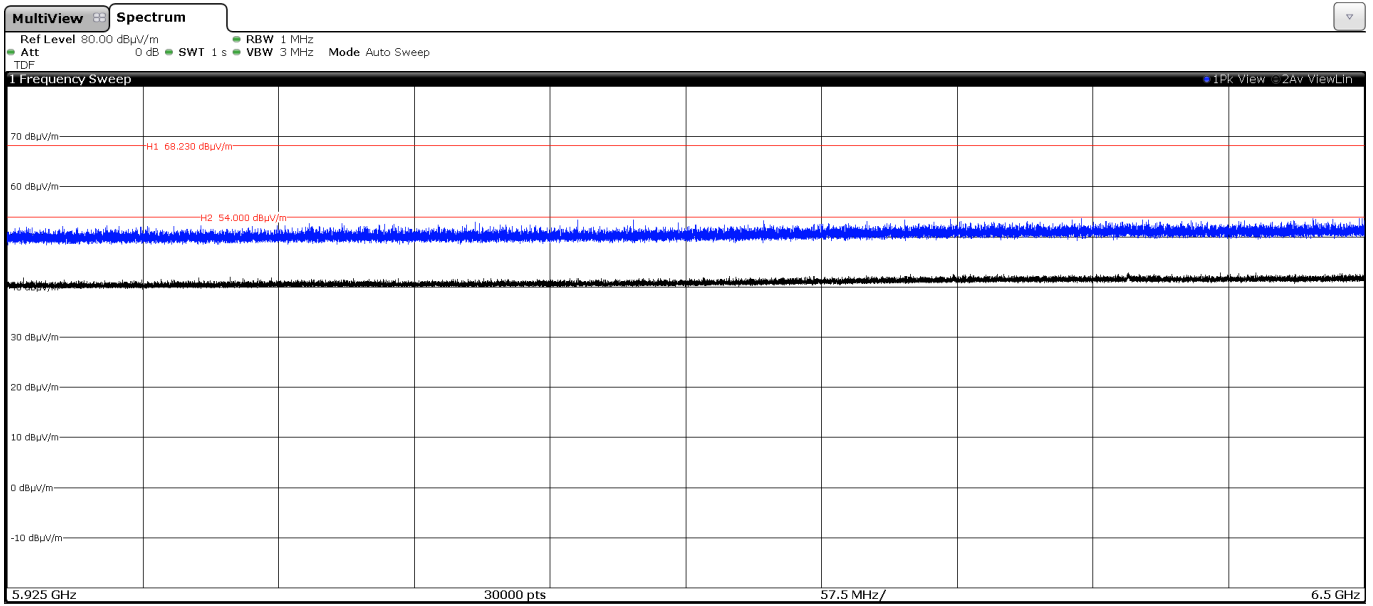


- High Channel:

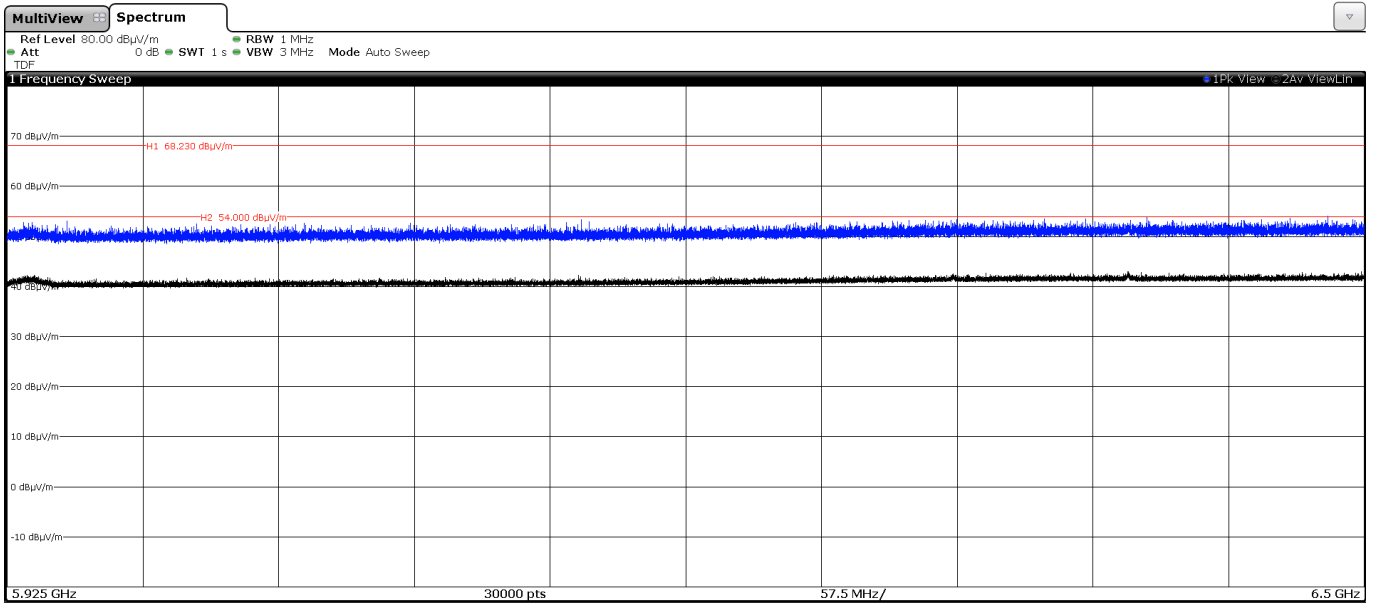


### FREQUENCY RANGE 5.925 – 6.5 GHz (worst mode)

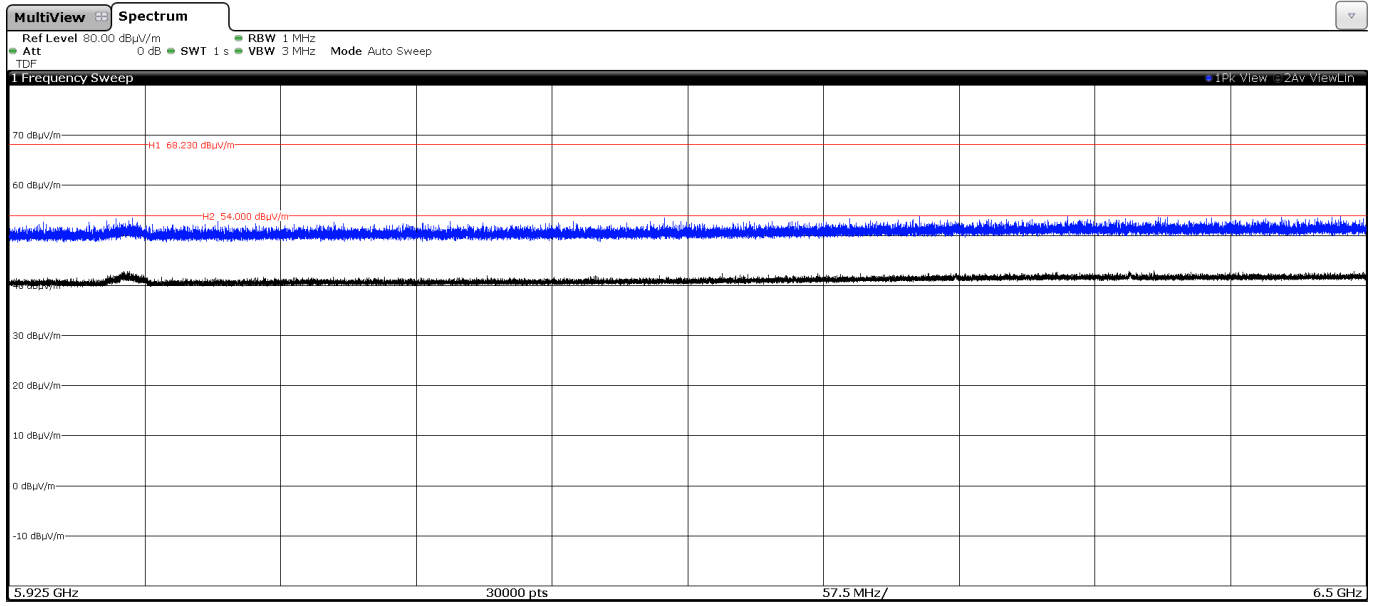
- Low Channel:



- Middle Channel:

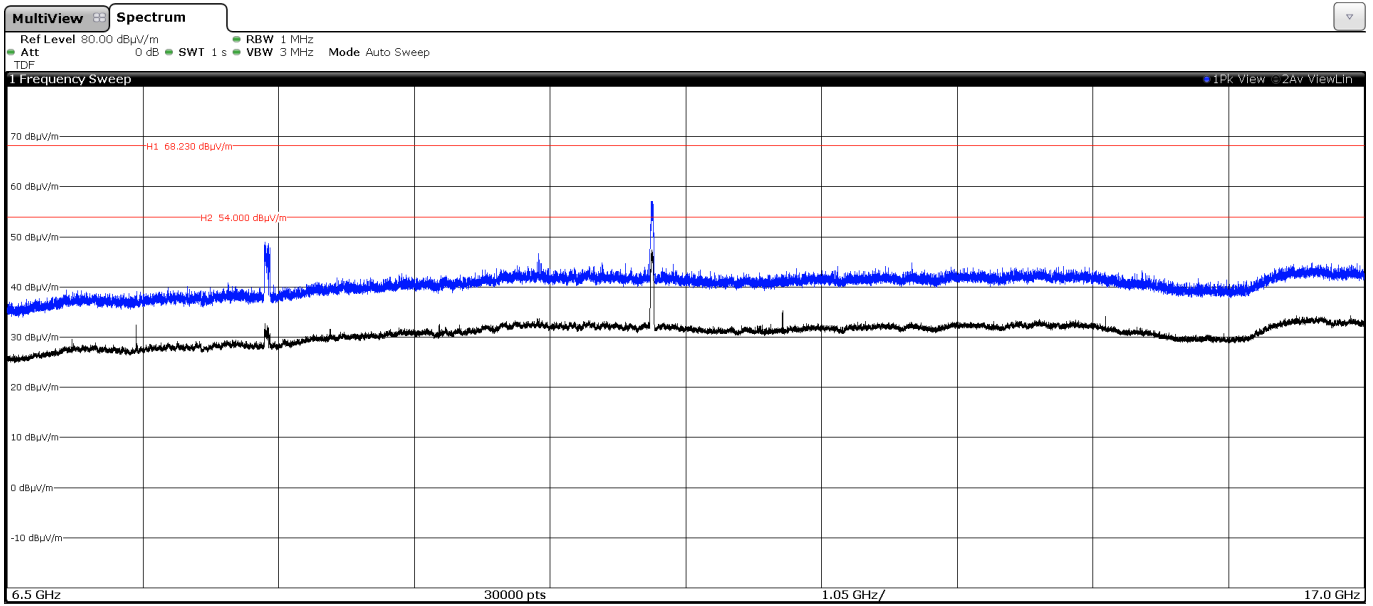


- High Channel:

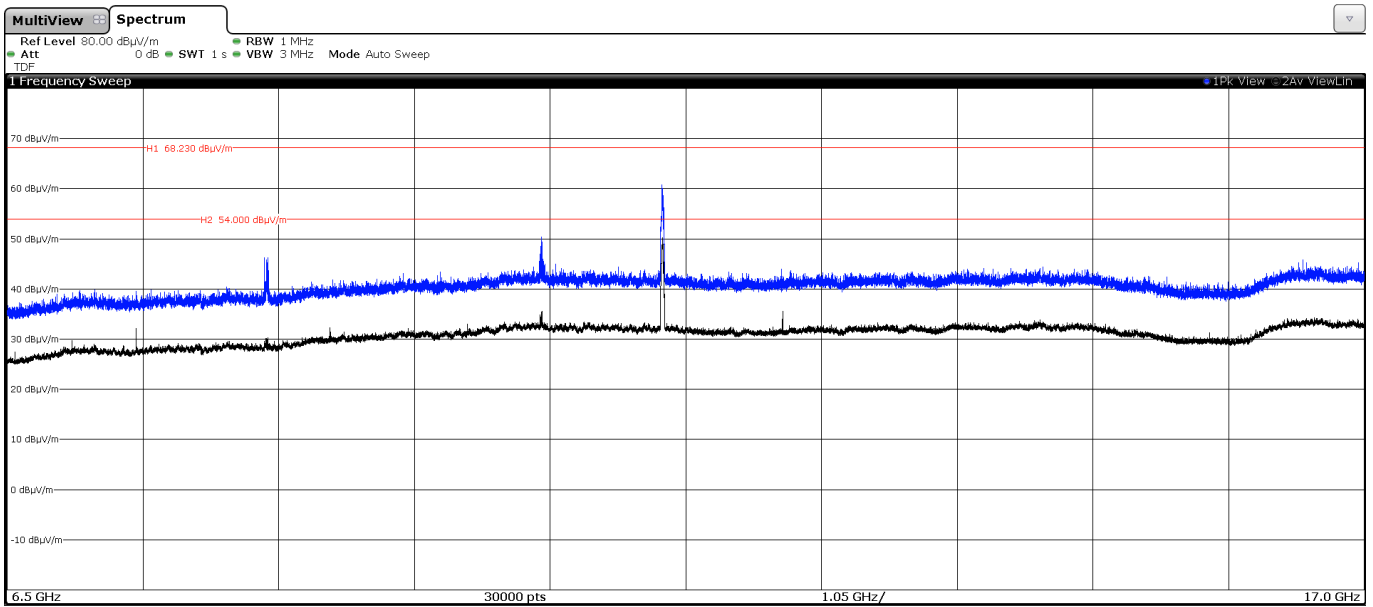


FREQUENCY RANGE 6.5 - 17 GHz. (worst mode)

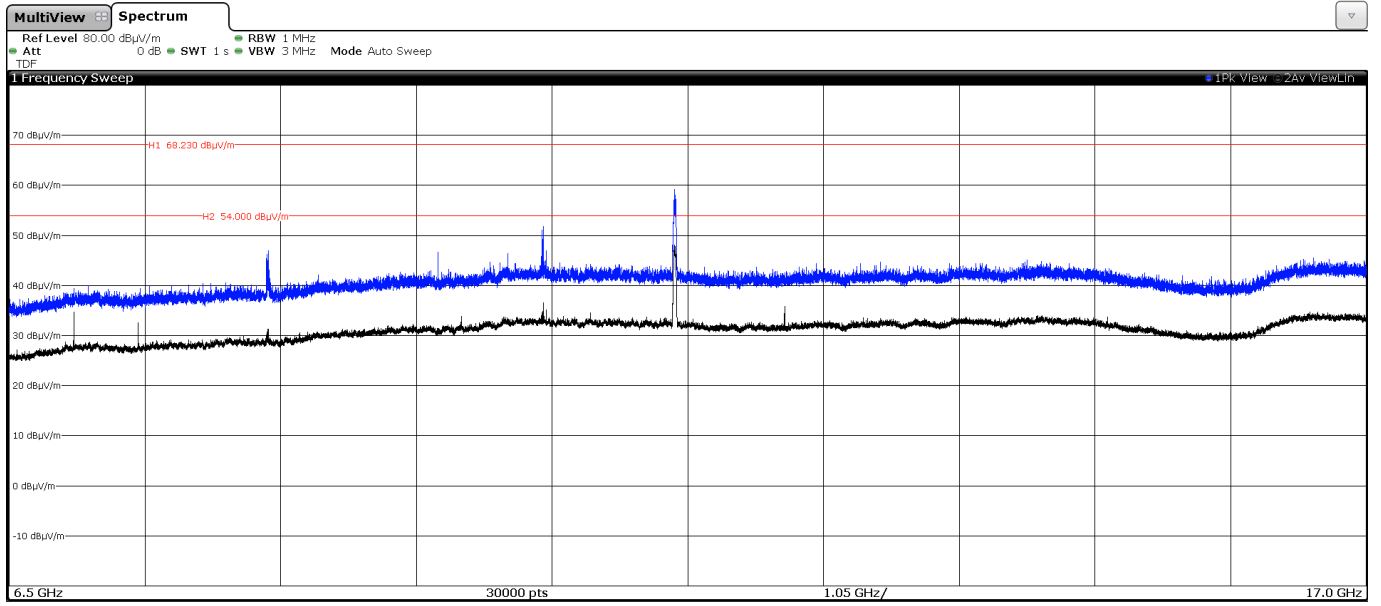
- Low Channel:



- Middle Channel:

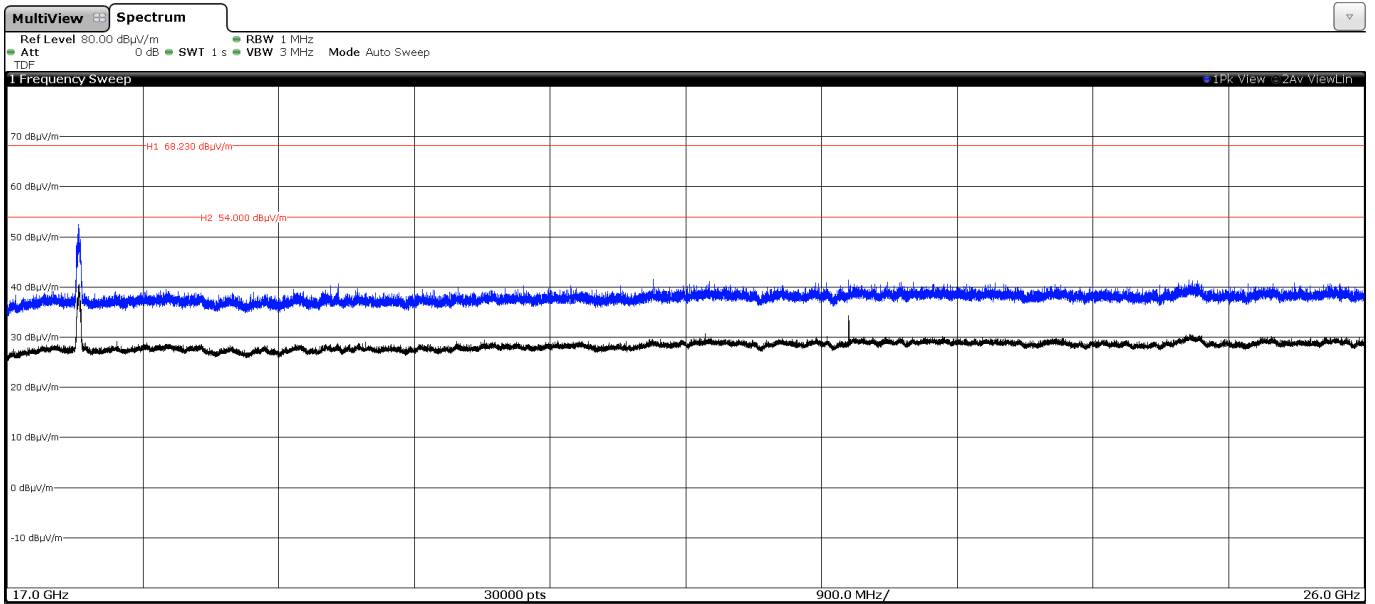


- High Channel:



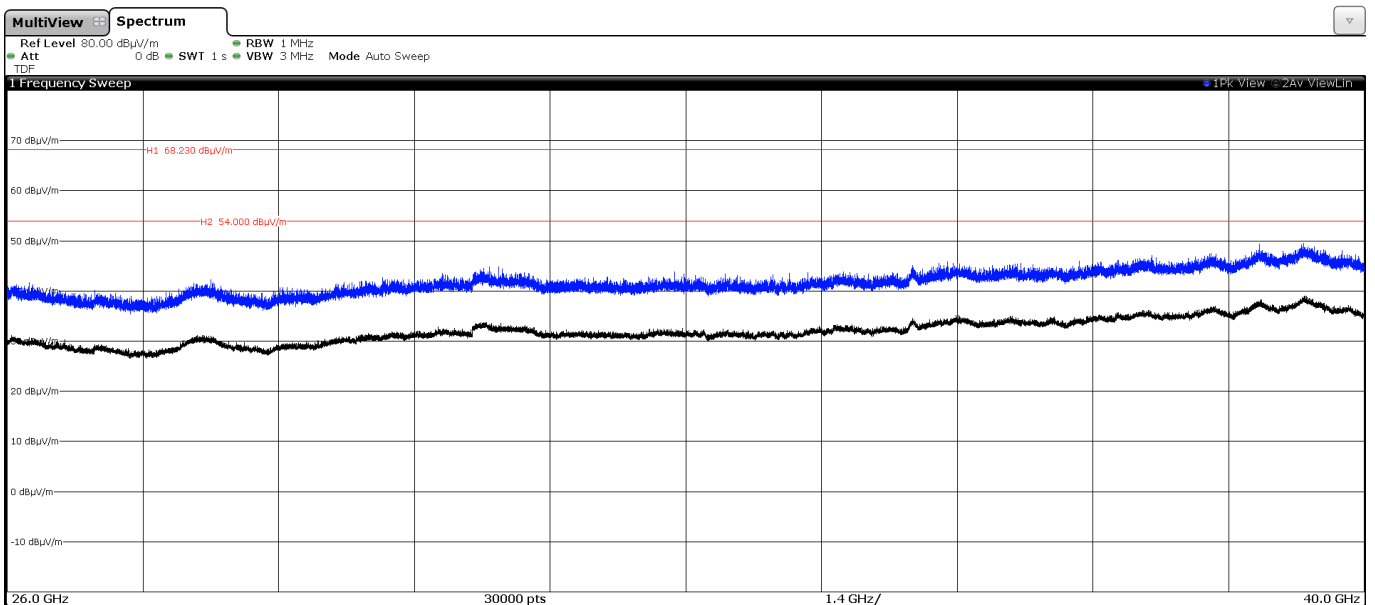
### FREQUENCY RANGE 17 - 26 GHz

This plot is valid for the Low, Middle and High Channels and all the modulation modes.



### FREQUENCY RANGE 26 - 40 GHz

This plot is valid for the Low, Middle and High Channels and all the modulation modes.





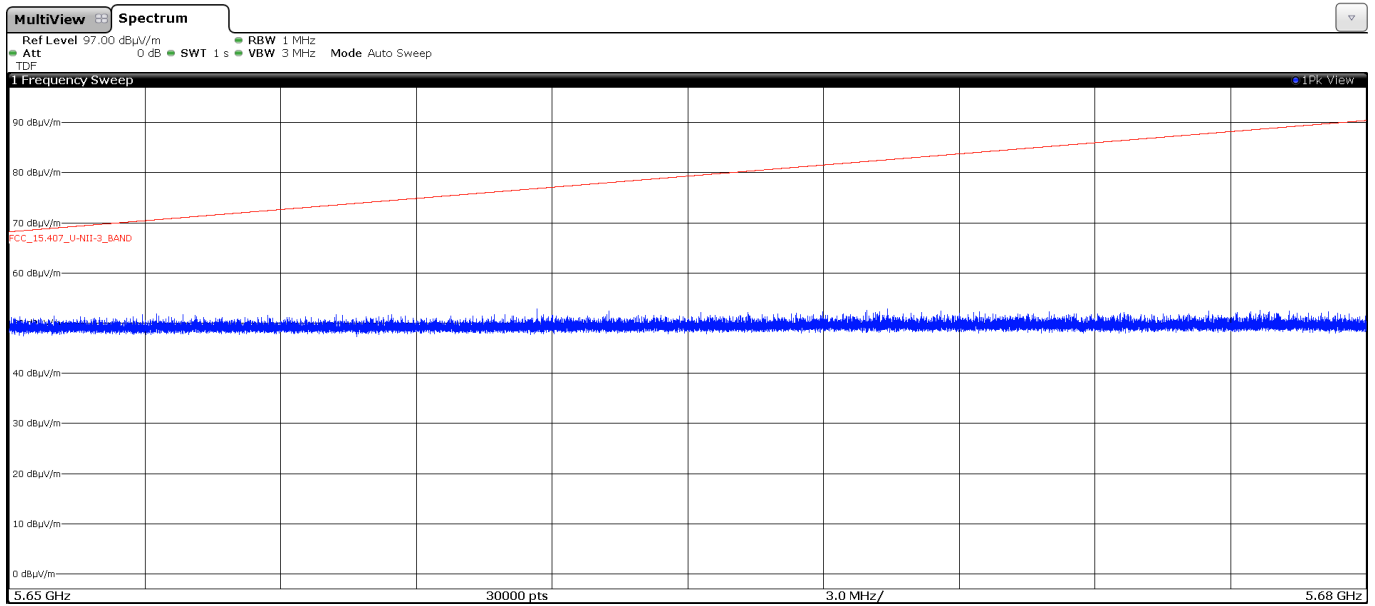
## MIMO – CORE-MIMO\_Port4 & Port1 Antennas:

### BAND EDGES EMISSIONS

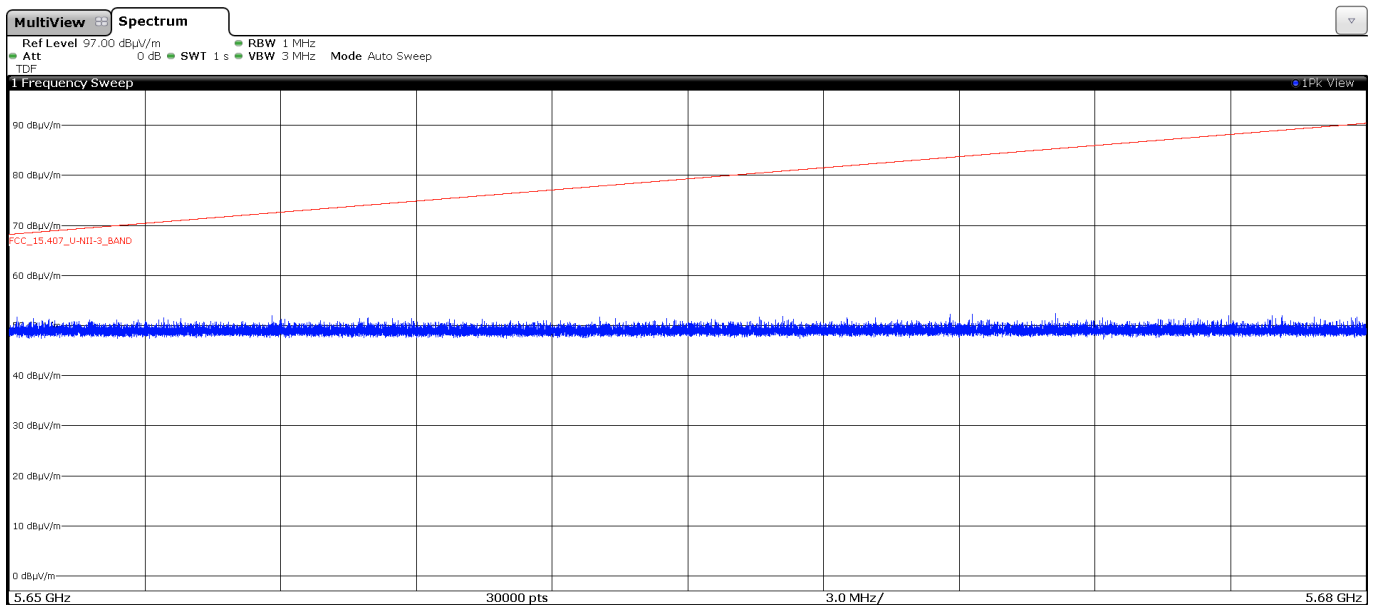
- Mode 802.11 n20 (HT20)

Radiated spurious emissions at band edges and inside adjacent band 5.65 – 5.68 GHz

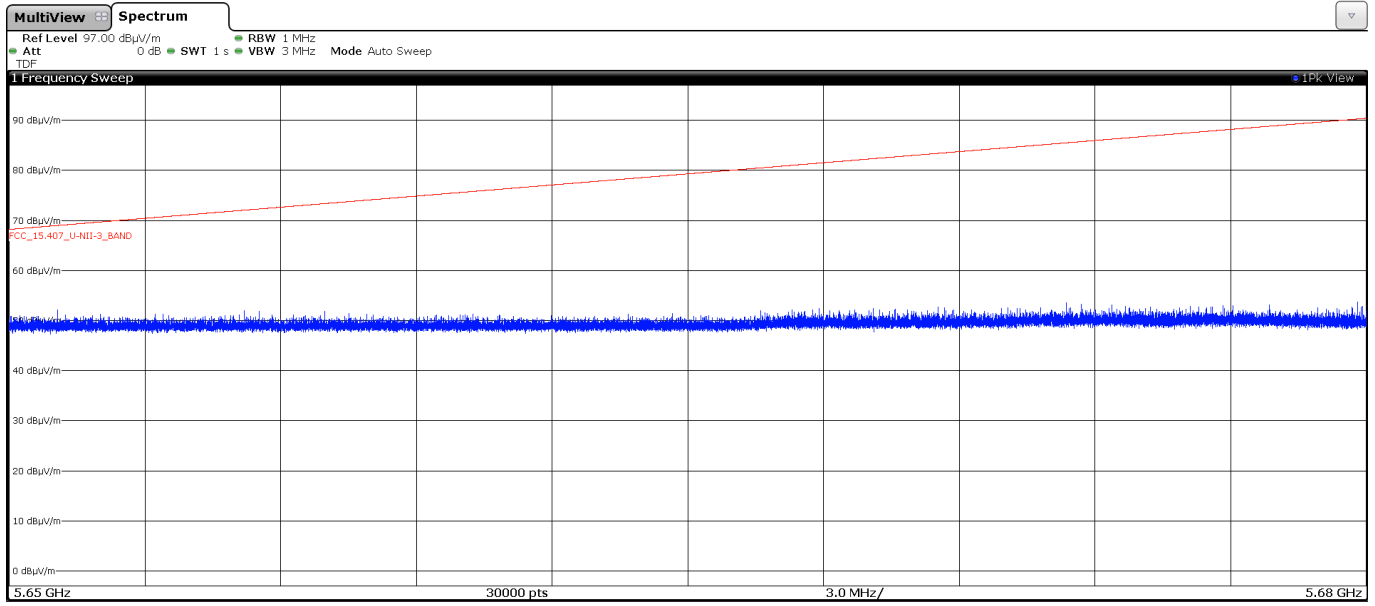
- Low Channel 149 (5745 MHz):



- Middle Channel 157 (5785 MHz):

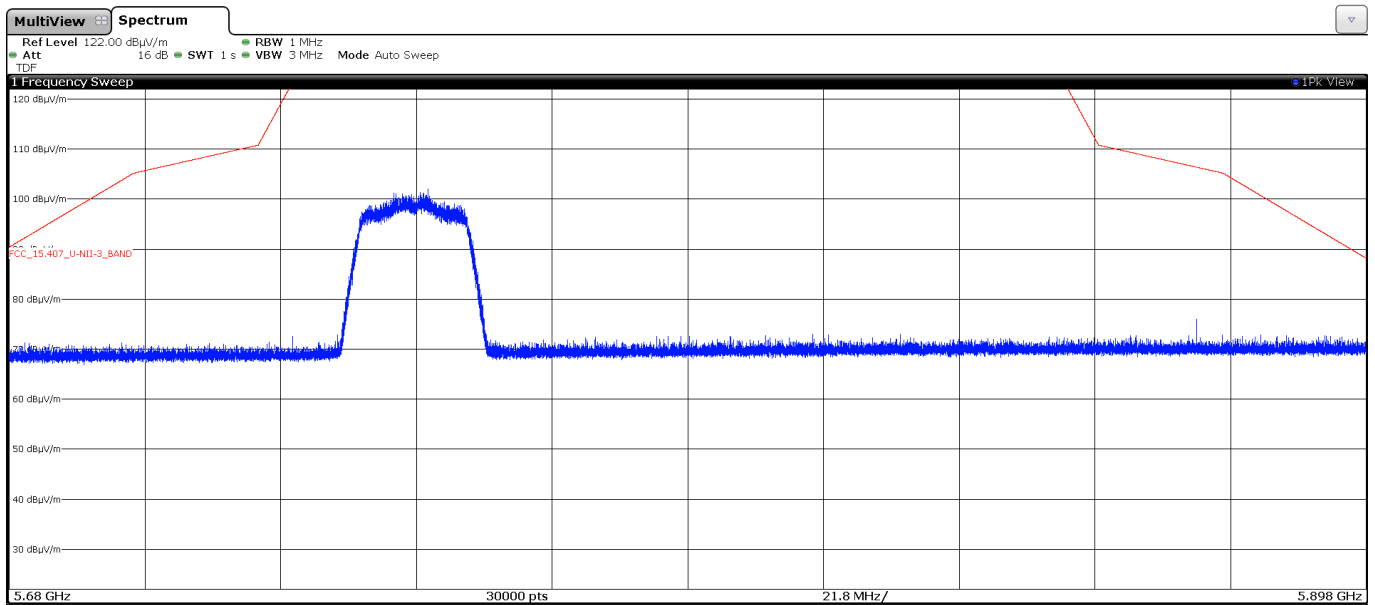


- High Channel 165 (5825 MHz):

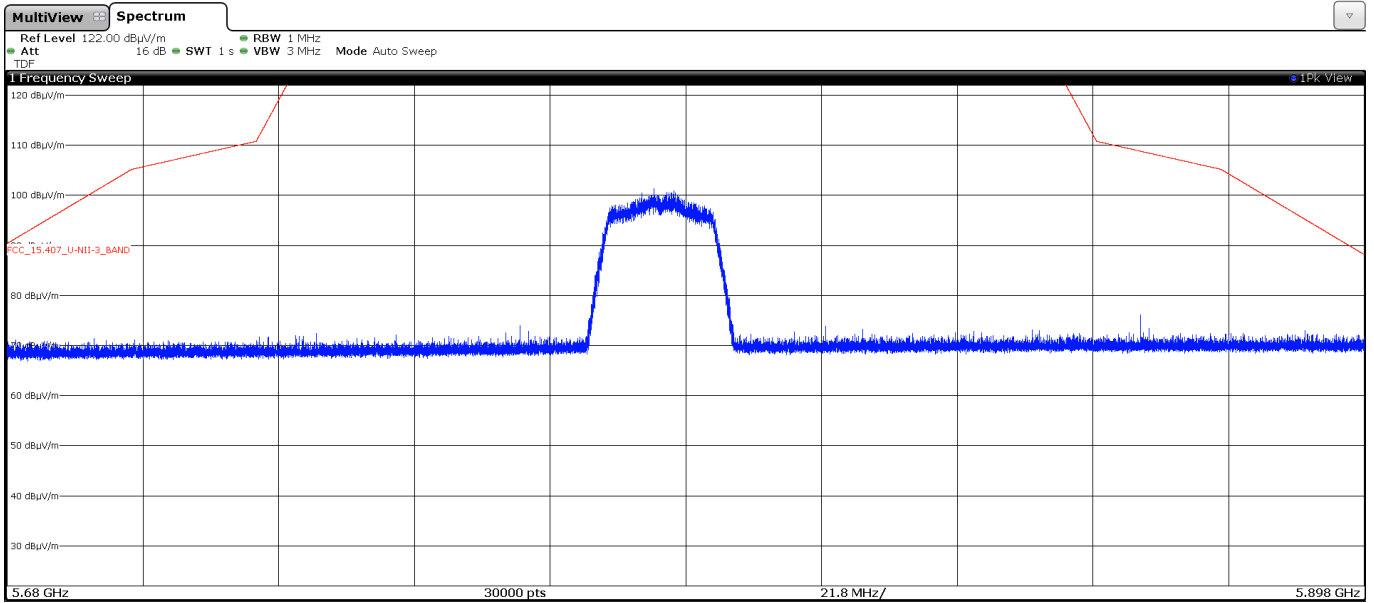


**Radiated spurious emissions at band edges and inside adjacent band 5.68 – 5.898 GHz**

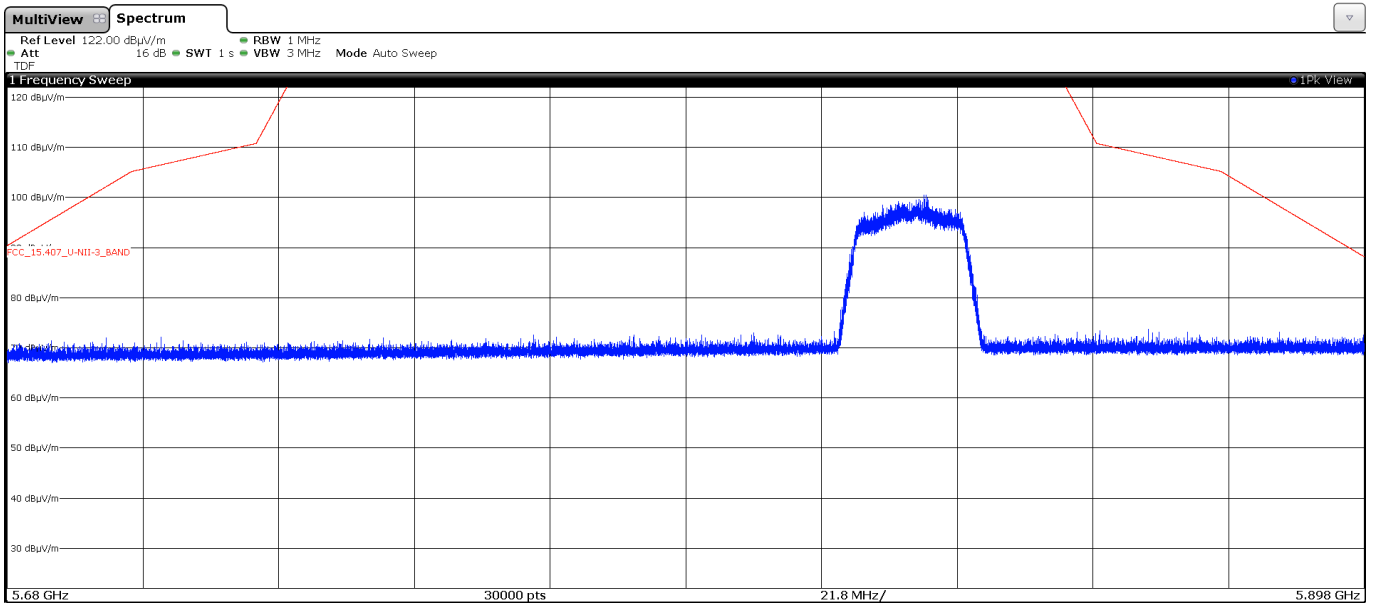
- Low Channel 149 (5745 MHz):



- Middle Channel 157 (5785 MHz):

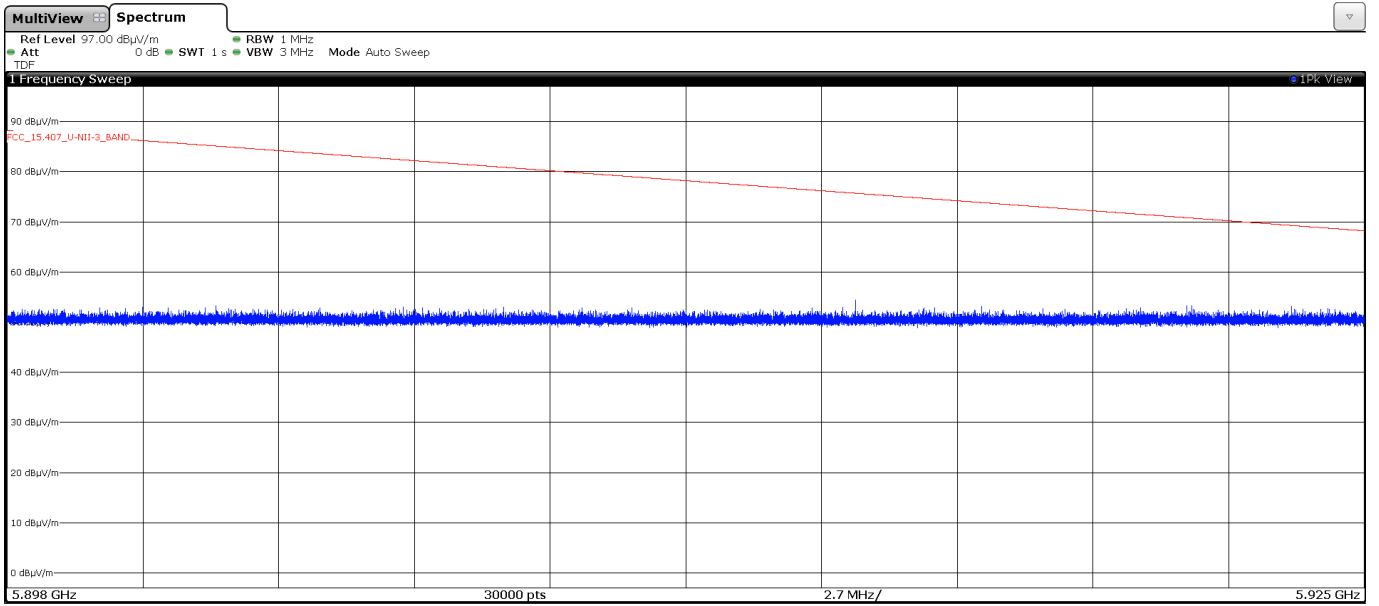


- High Channel 165 (5825 MHz):

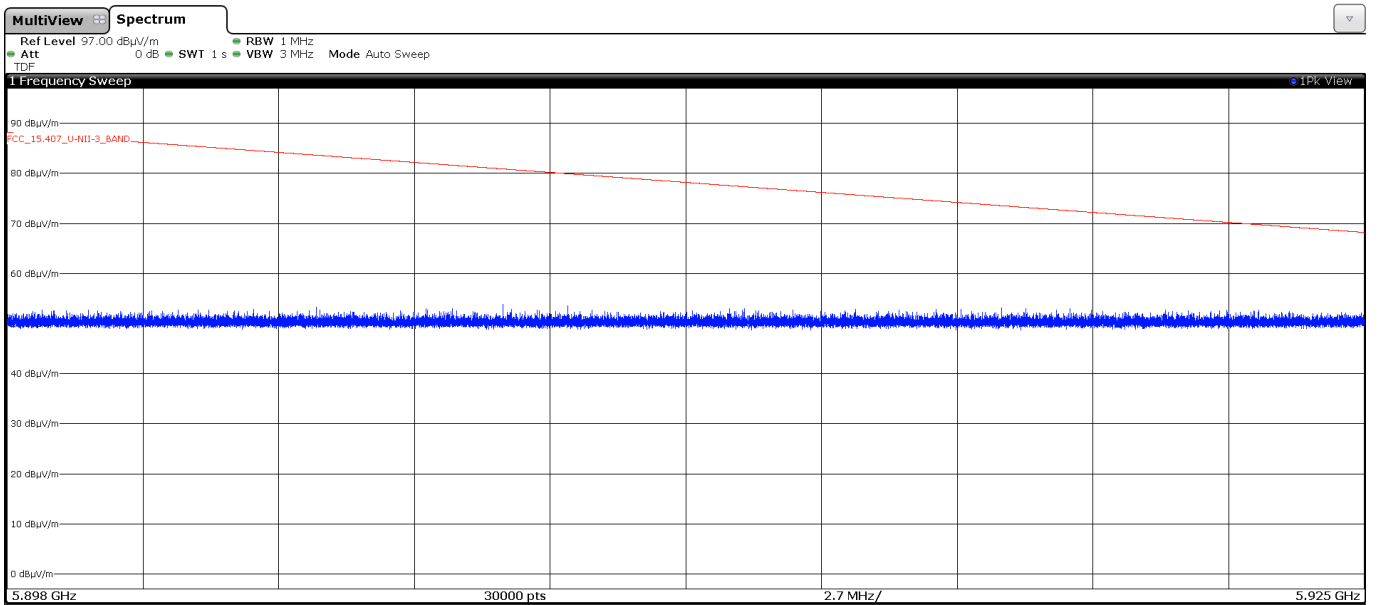


### Radiated spurious emissions at band edges and inside adjacent band 5.898 – 5.925 GHz

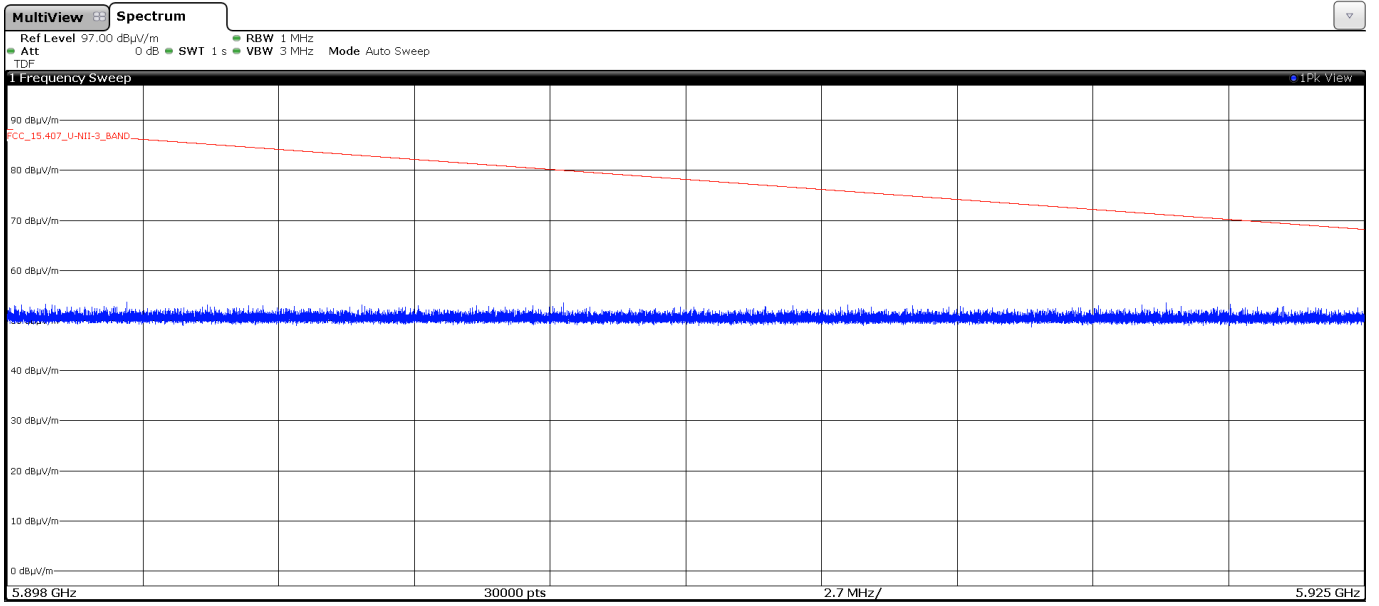
- Low Channel 149 (5745 MHz):



- Middle Channel 157 (5785 MHz):



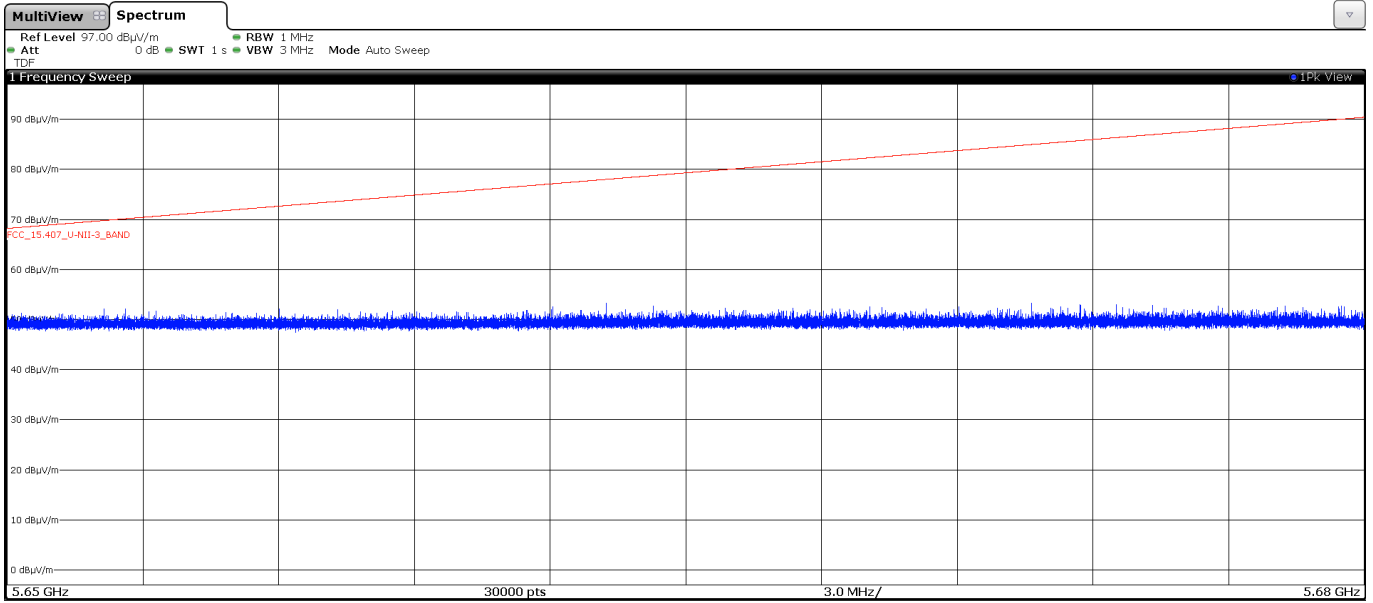
- High Channel 165 (5825 MHz):



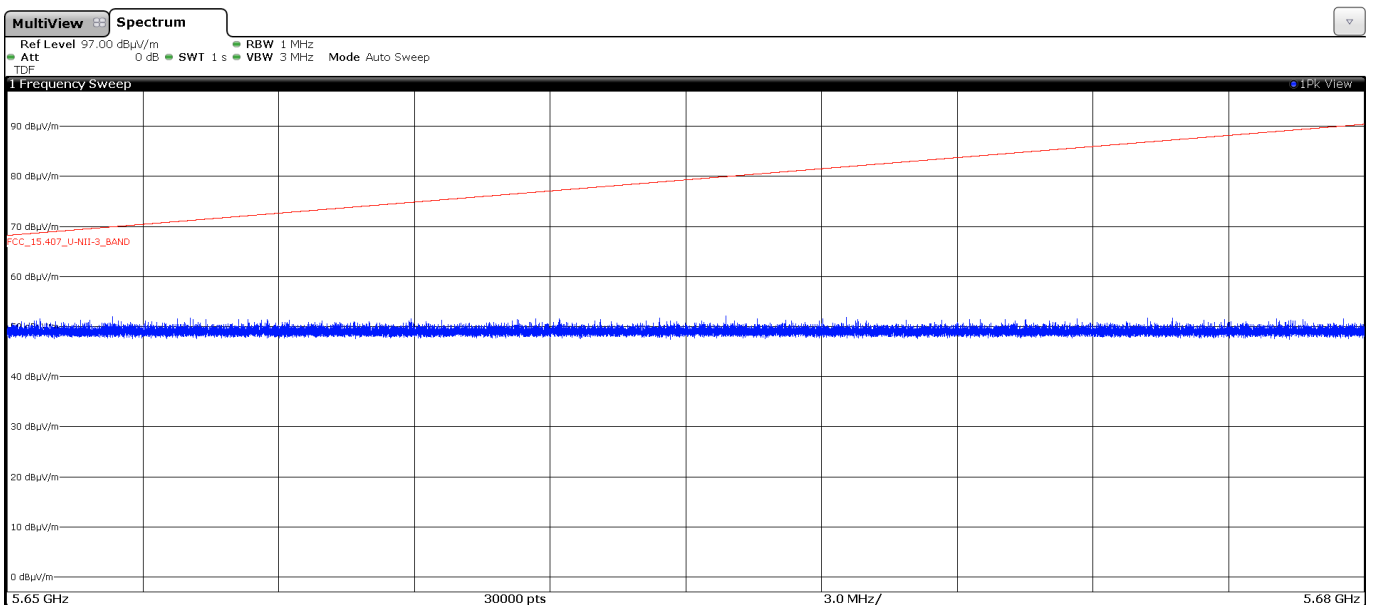
- **Mode 802.11 ac20**

### Radiated spurious emissions at band edges and inside adjacent band 5.65 – 5.68 GHz

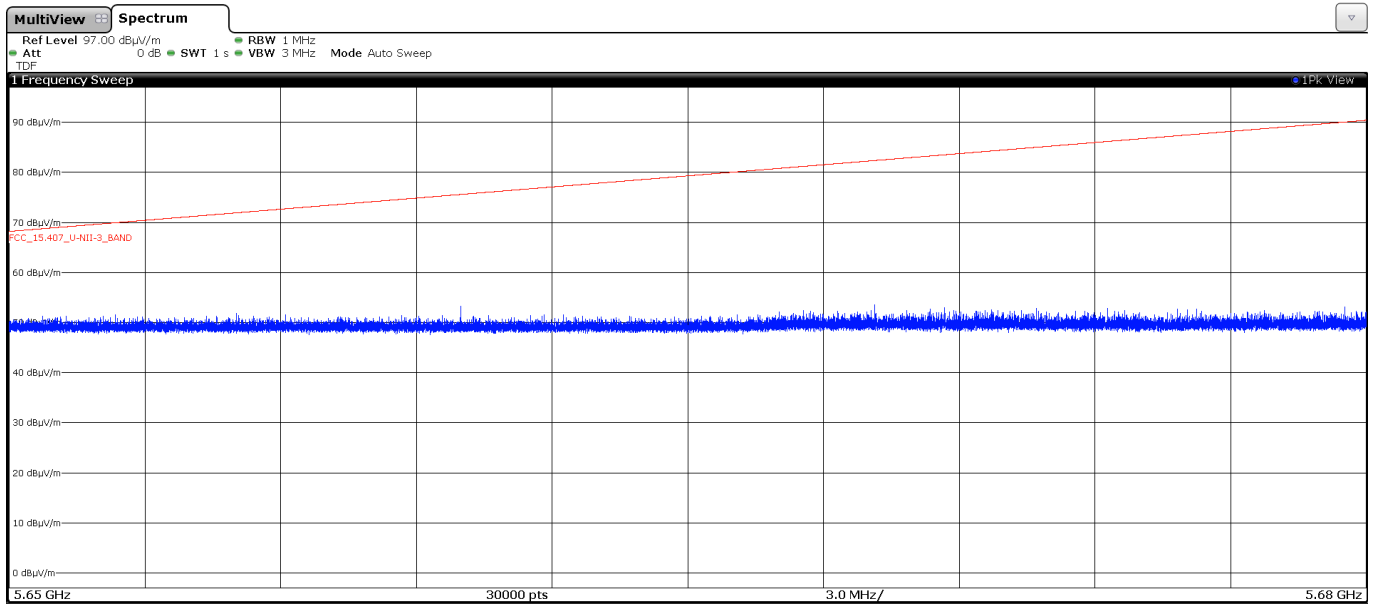
- Low Channel 149 (5745 MHz):



- Middle Channel 157 (5785 MHz):

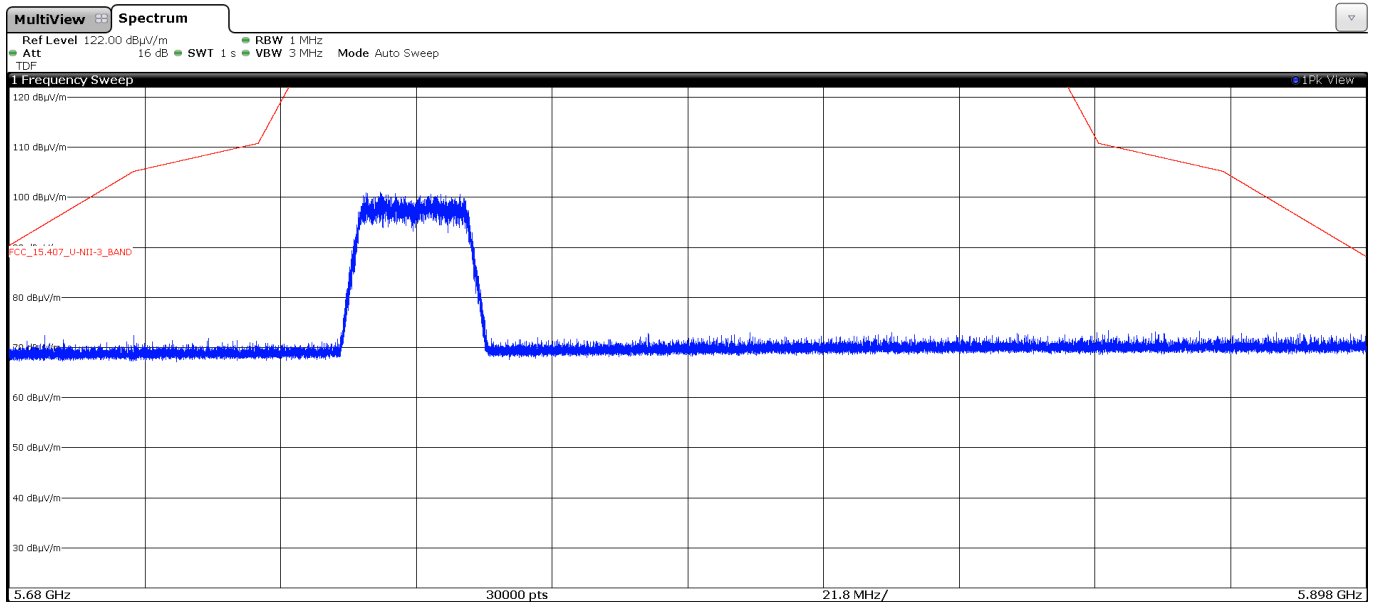


- High Channel 165 (5825 MHz):

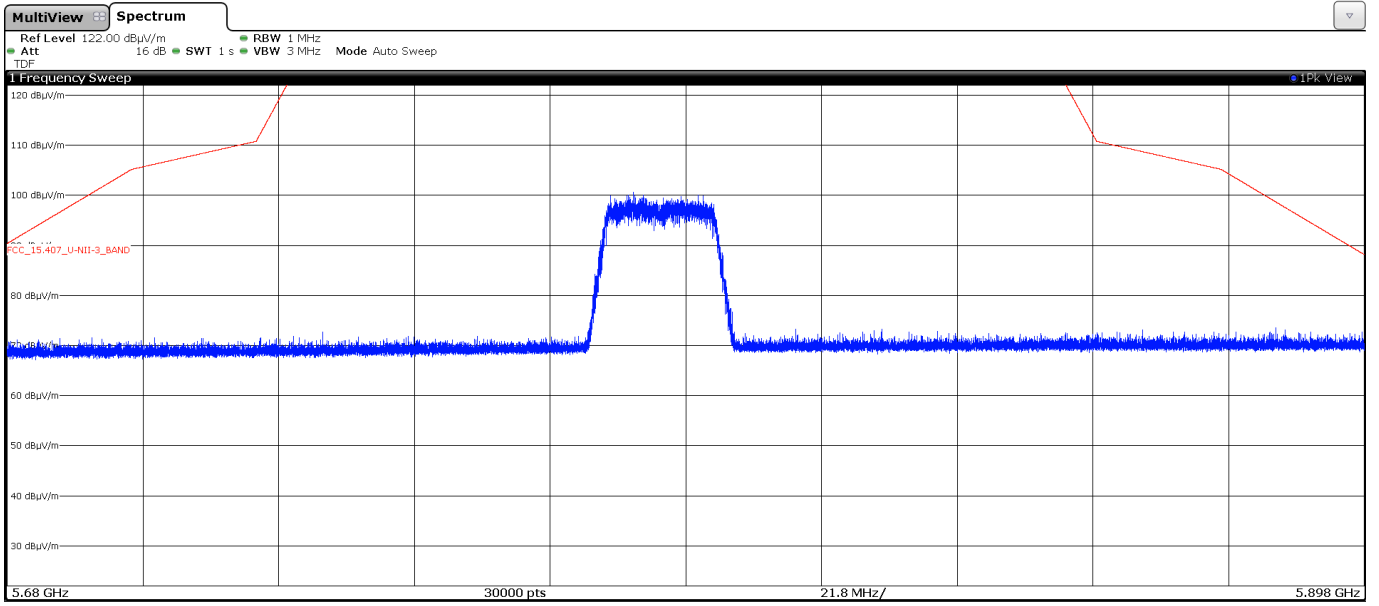


Radiated spurious emissions at band edges and inside adjacent band 5.68 – 5.898 GHz

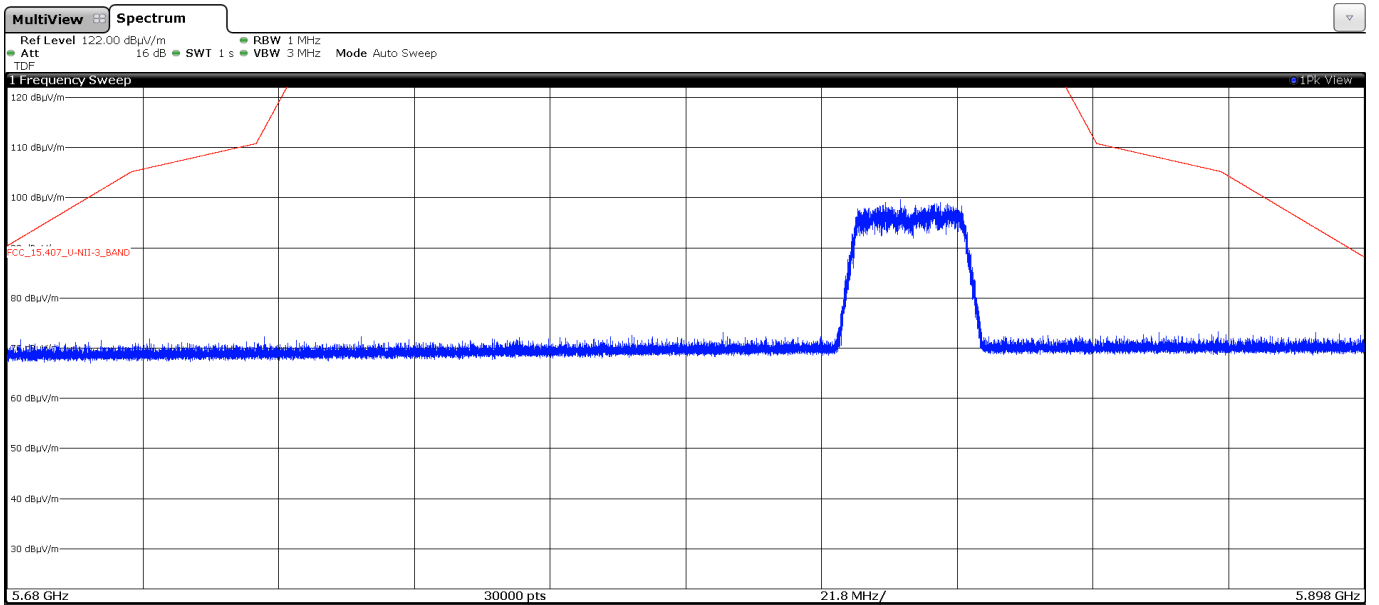
- Low Channel 149 (5745MHz):



- Middle Channel 157 (5785MHz):



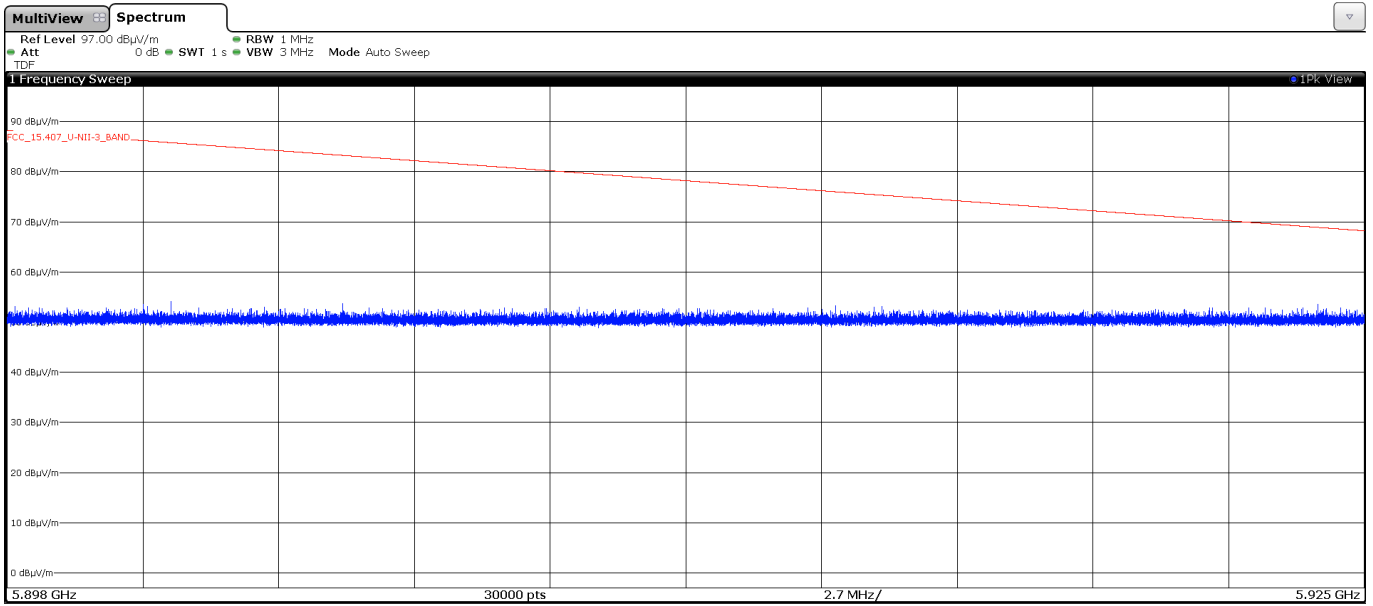
- High Channel 165 (5825MHz):



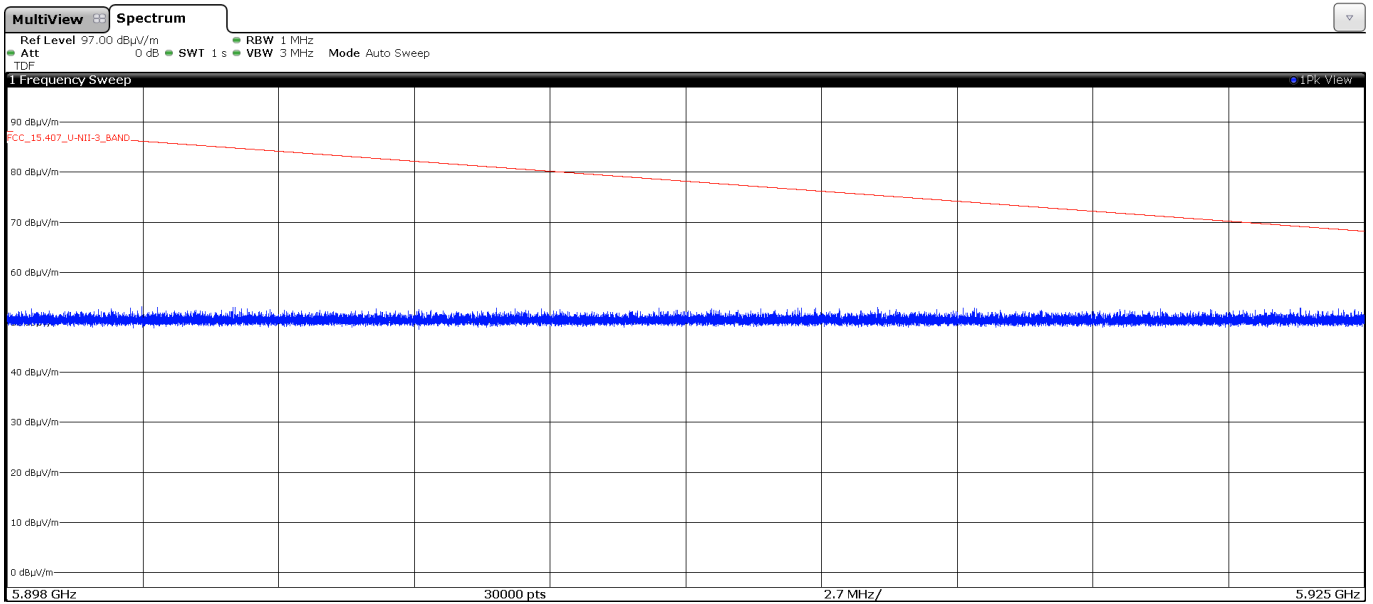


### Radiated spurious emissions at band edges and inside adjacent band 5.898 – 5.925 GHz

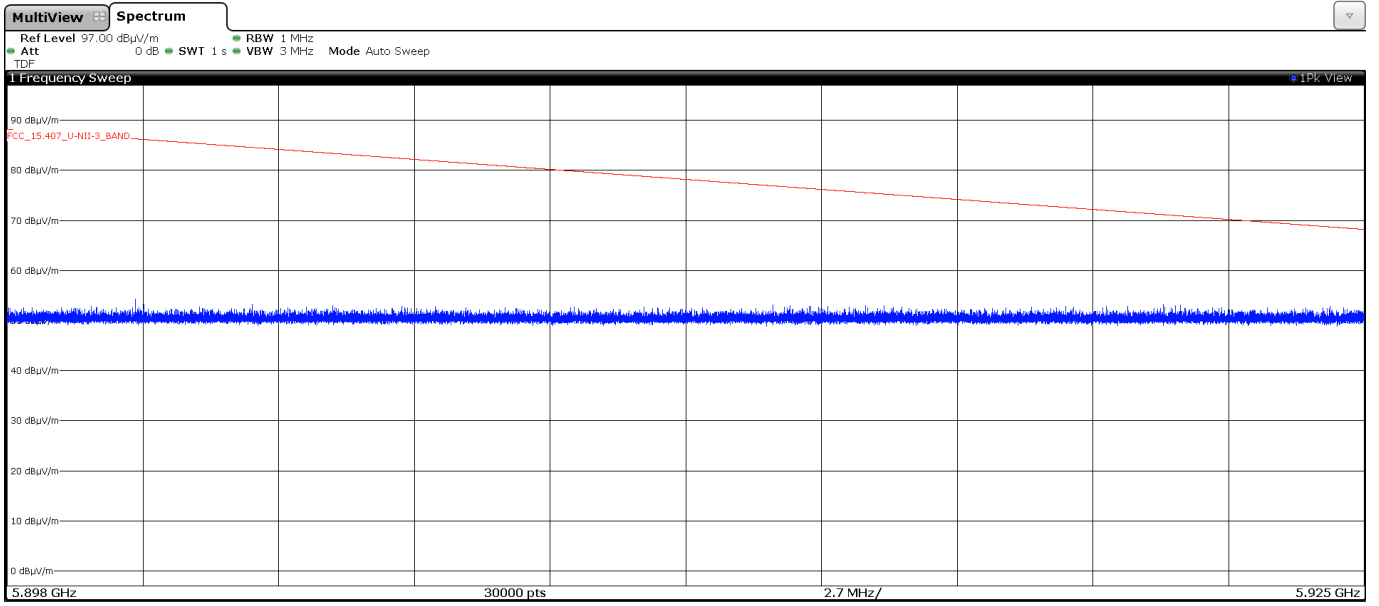
- Low Channel 149 (5745 MHz):



- Middle Channel 157 (5785 MHz):



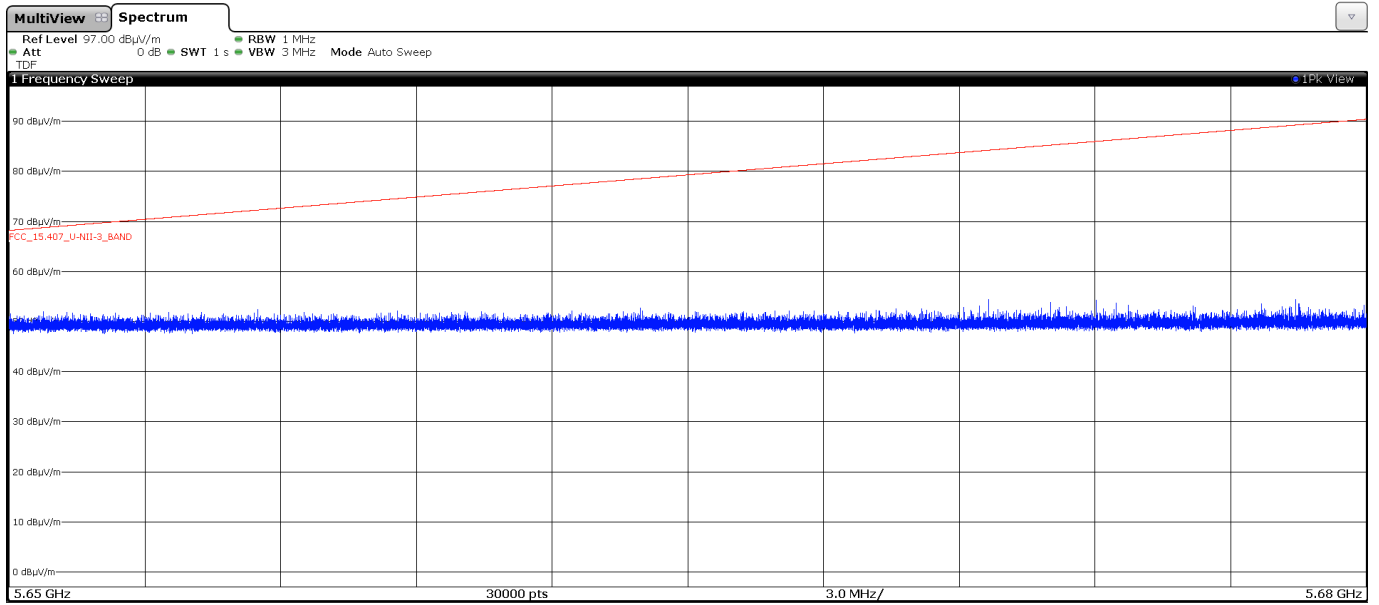
- High Channel 165 (5825 MHz):



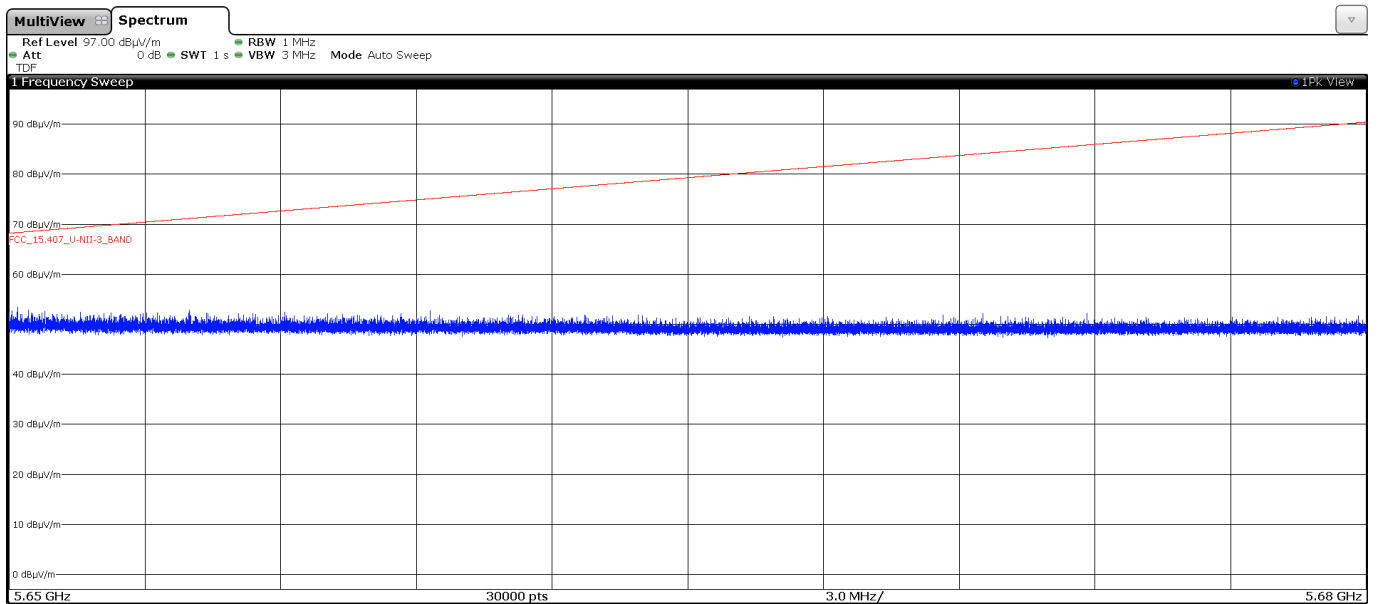
- **Mode 802.11 n40 (HT40)**

**Radiated spurious emissions at band edges and inside adjacent band 5.65 – 5.68 GHz**

- Low Channel 151 (5755 MHz):

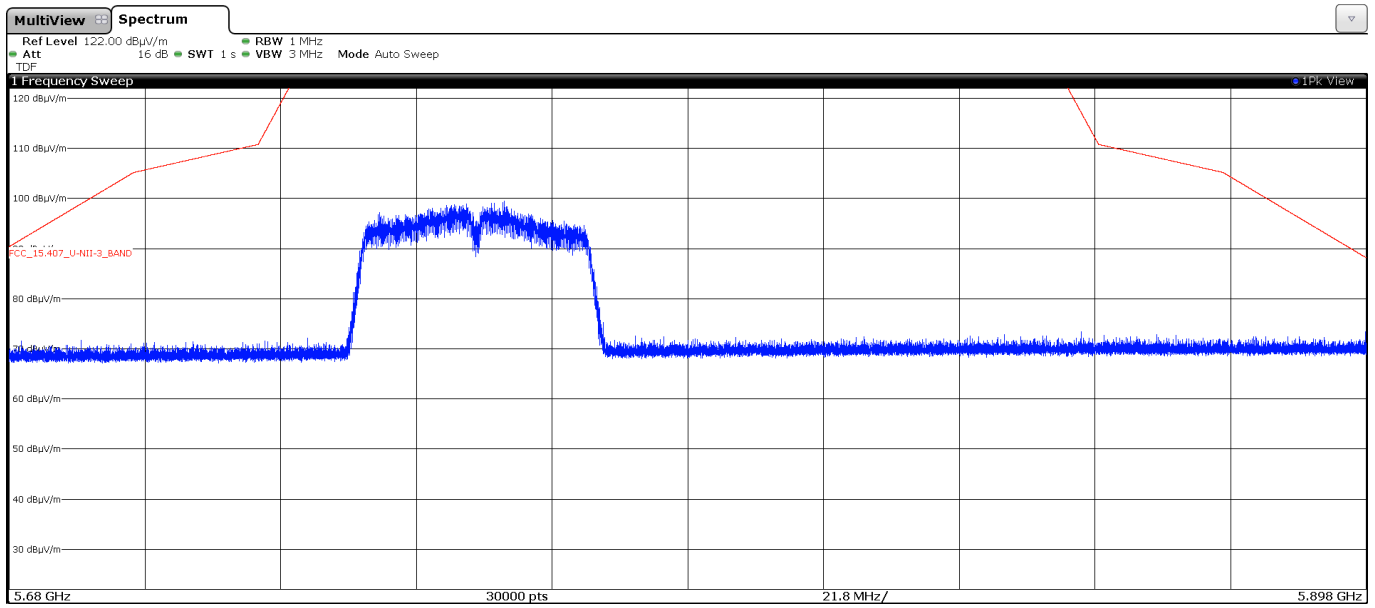


- High Channel 159 (5795 MHz):

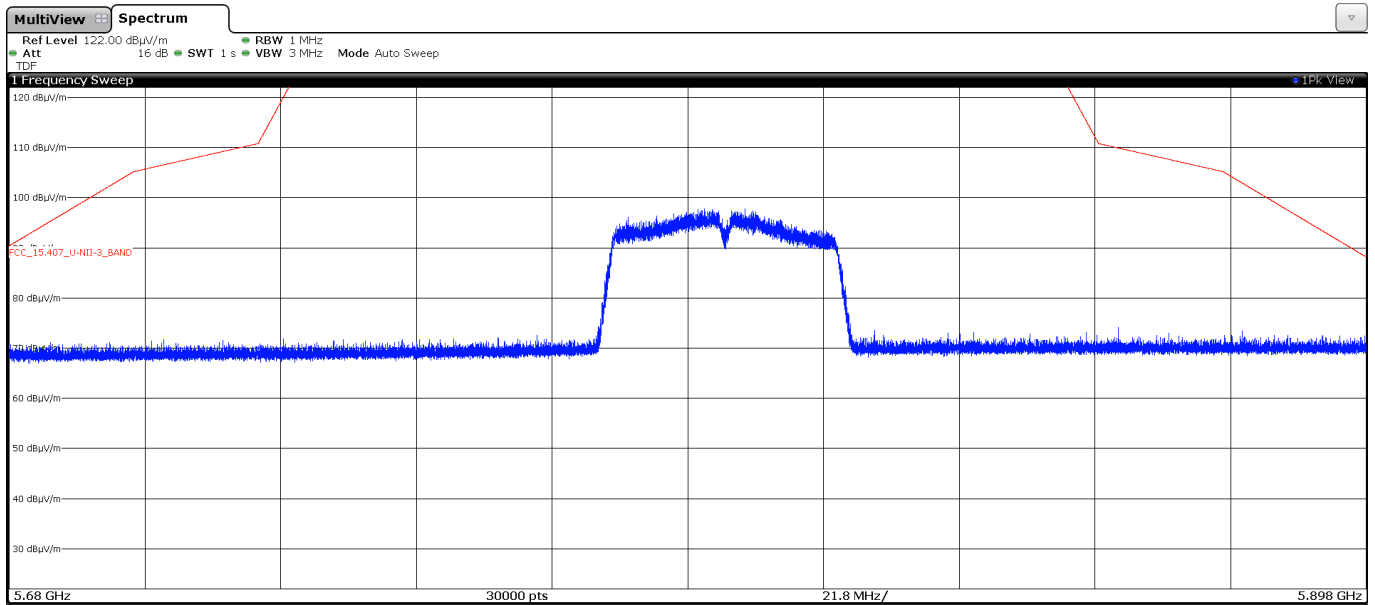


### Radiated spurious emissions at band edges and inside adjacent band 5.68 – 5.898 GHz

- Low Channel 151 (5755 MHz):

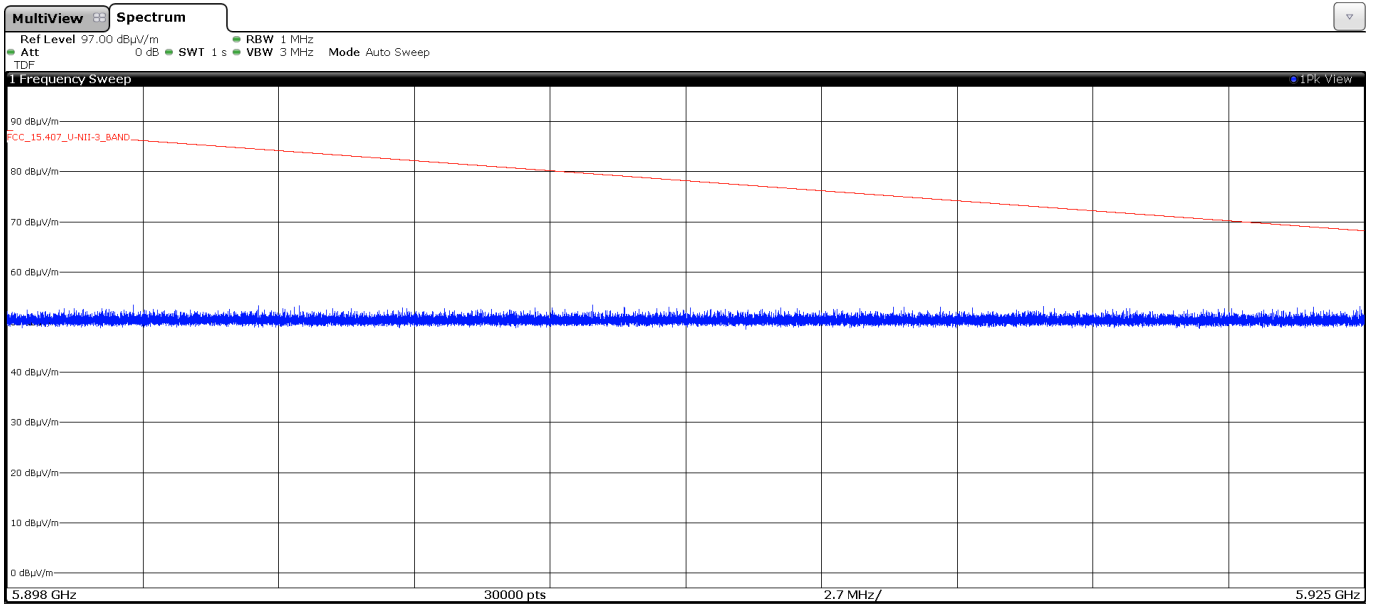


- High Channel 159 (5795 MHz):

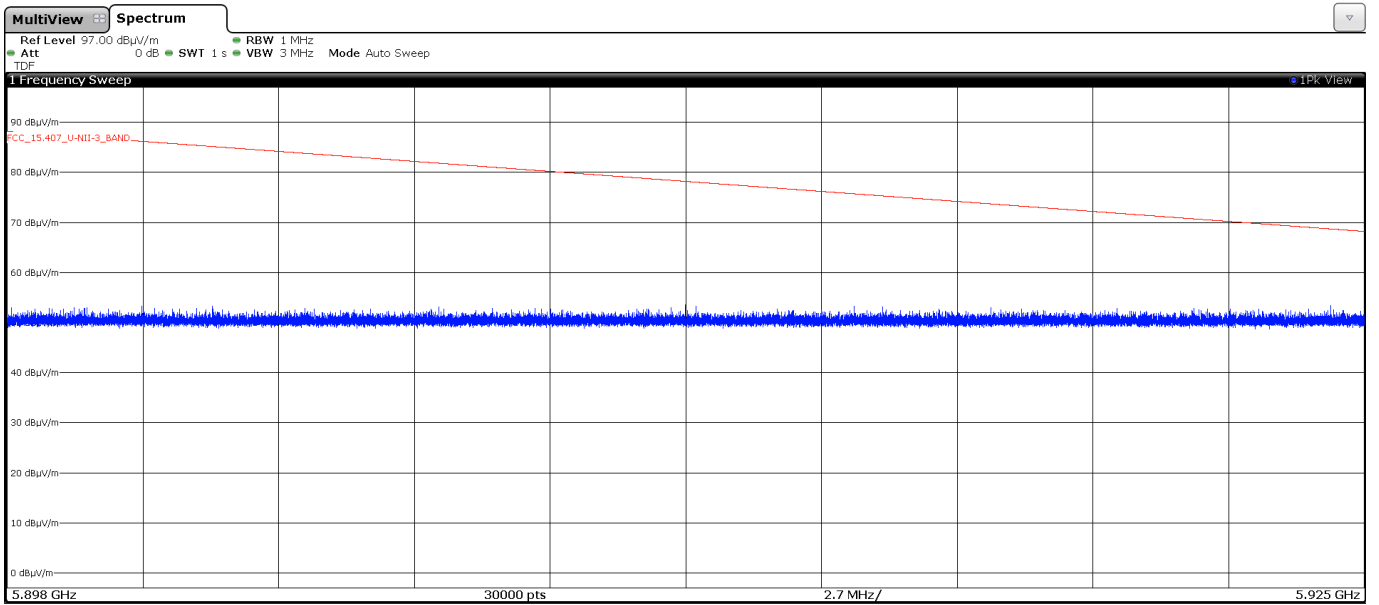


### Radiated spurious emissions at band edges and inside adjacent band 5.898 – 5.925 GHz

- Low Channel 151 (5755 MHz):



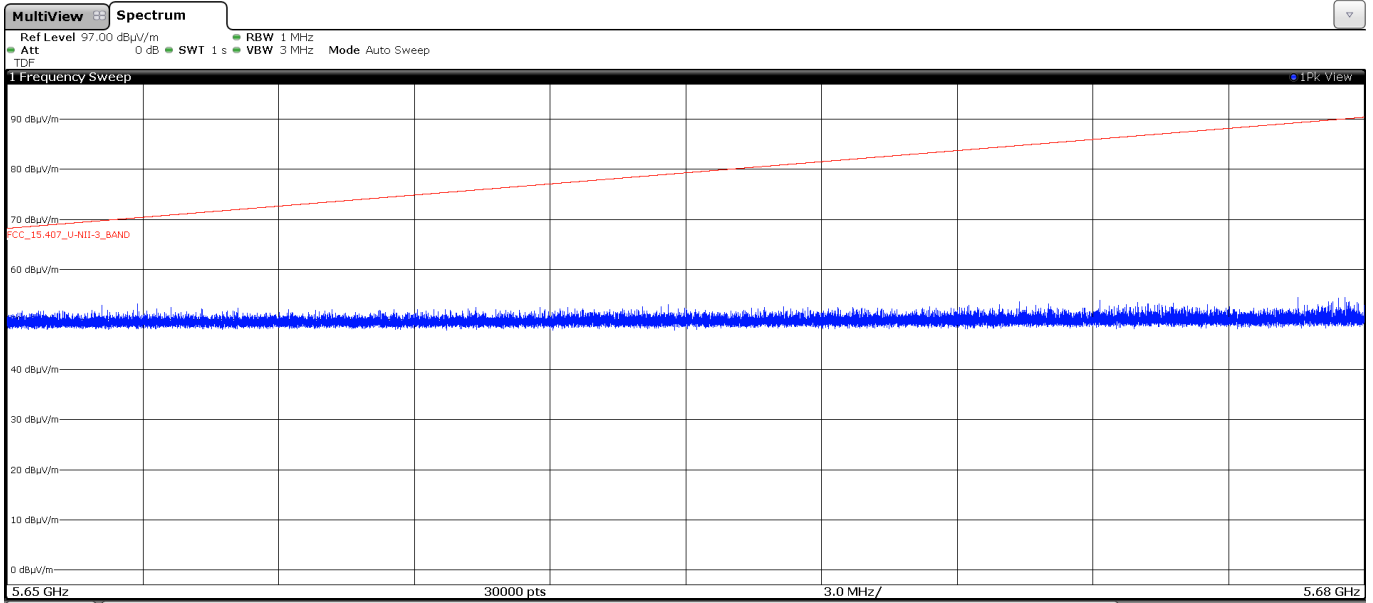
- High Channel 159 (5795 MHz):



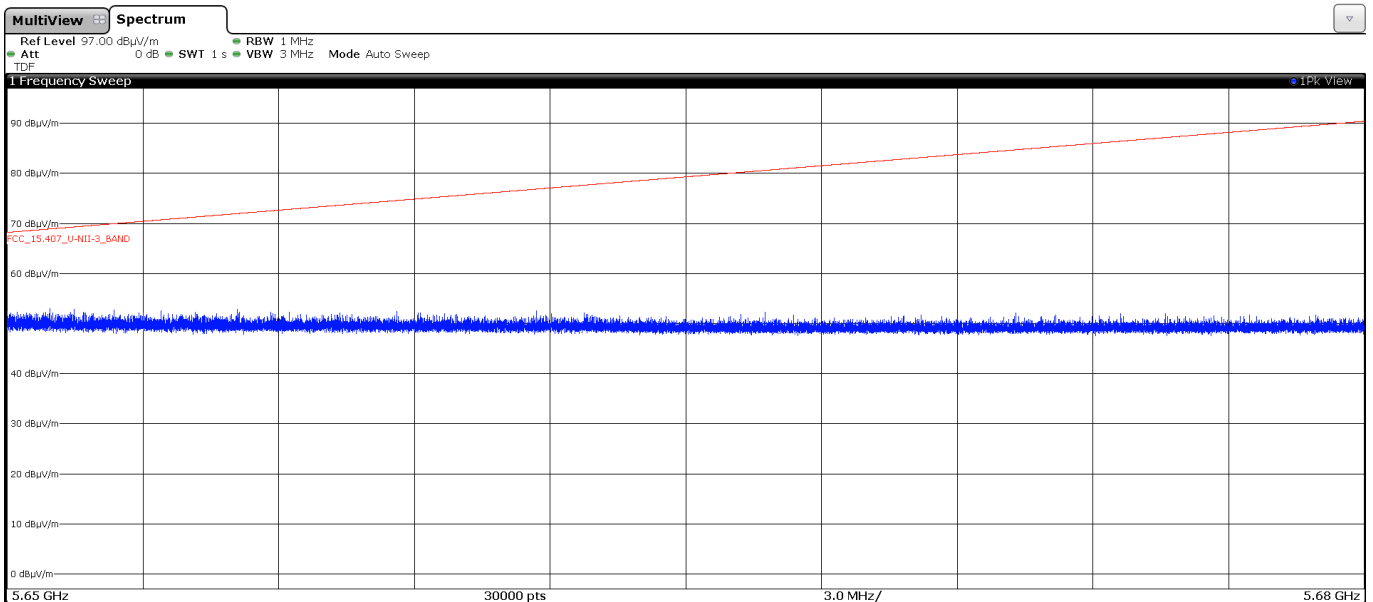
- **Mode 802.11 ac40**

**Radiated spurious emissions at band edges and inside adjacent band 5.65 – 5.68 GHz**

- Low Channel 151 (5755 MHz):

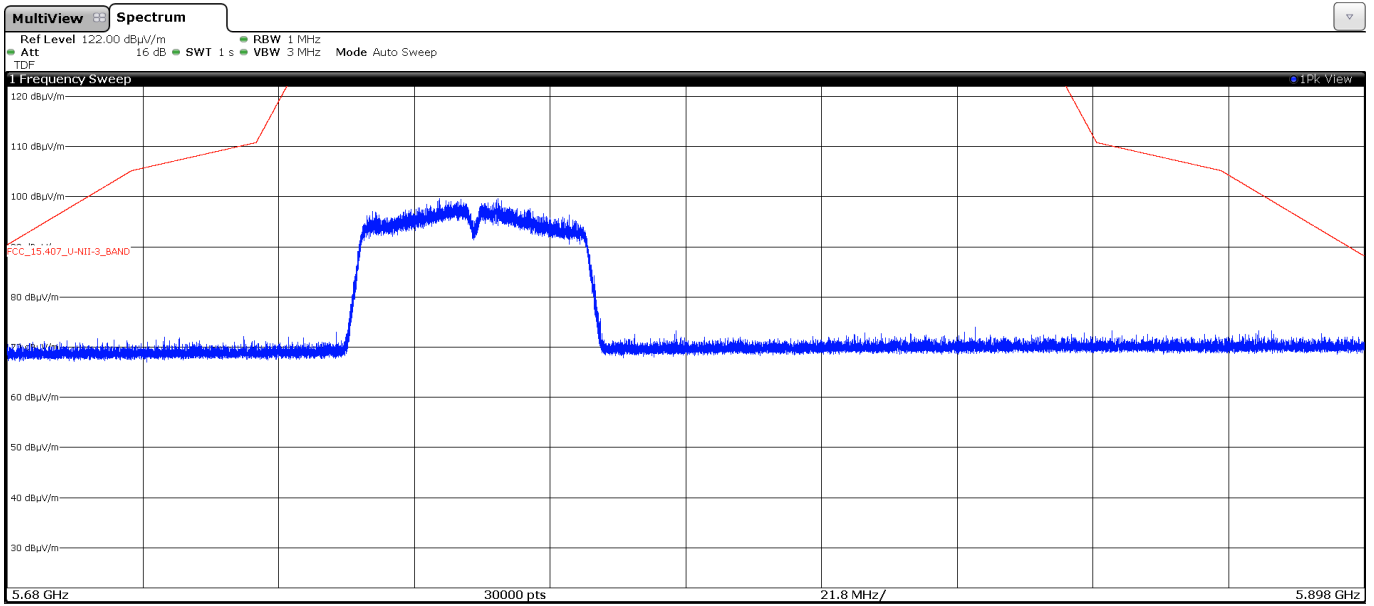


- High Channel 159 (5795 MHz):

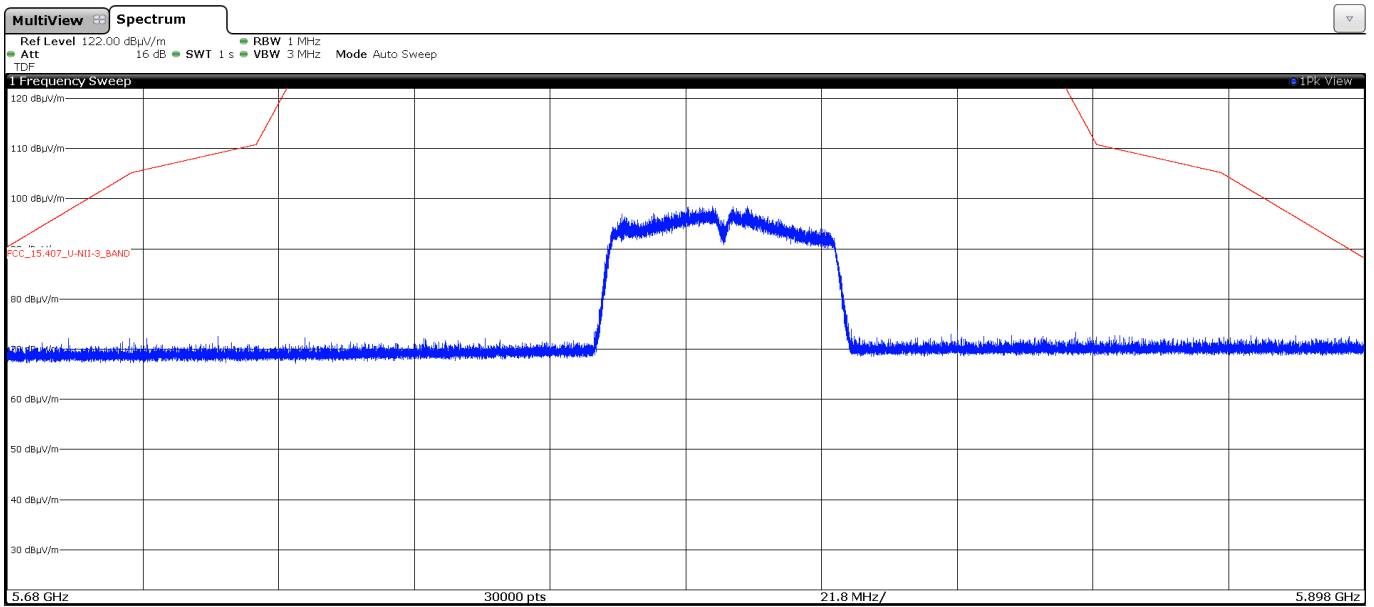


### Radiated spurious emissions at band edges and inside adjacent band 5.68 – 5.898 GHz

- Low Channel 151 (5755 MHz):

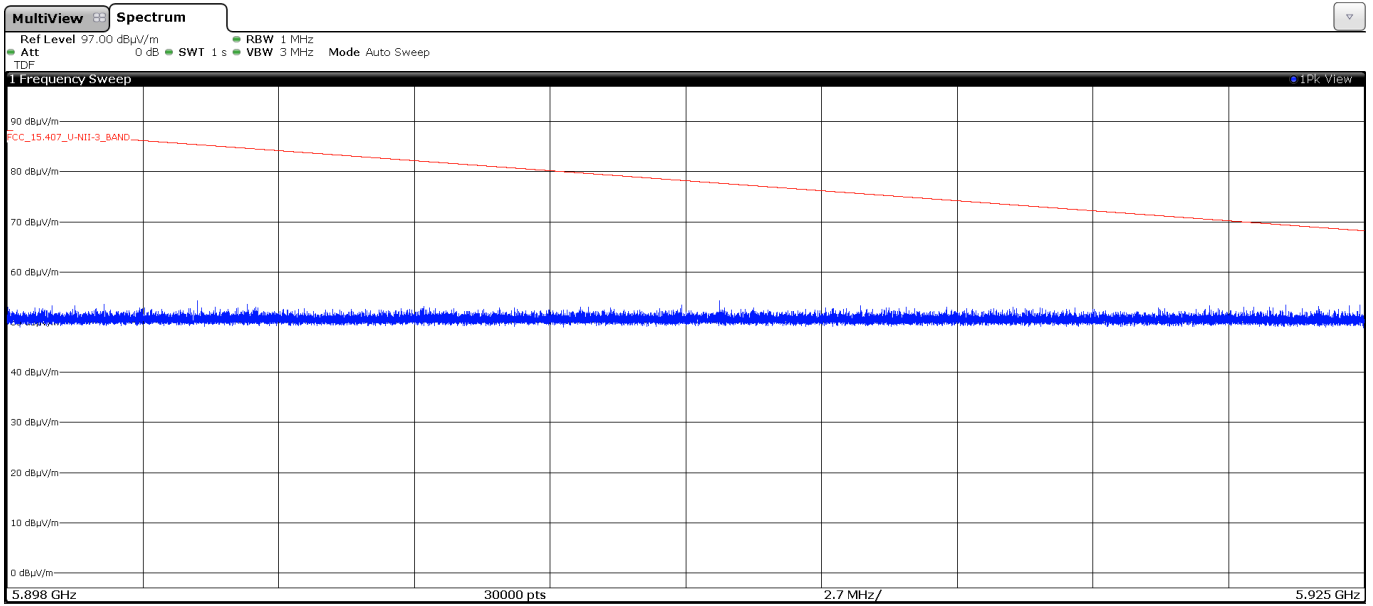


- High Channel 159 (5795 MHz):

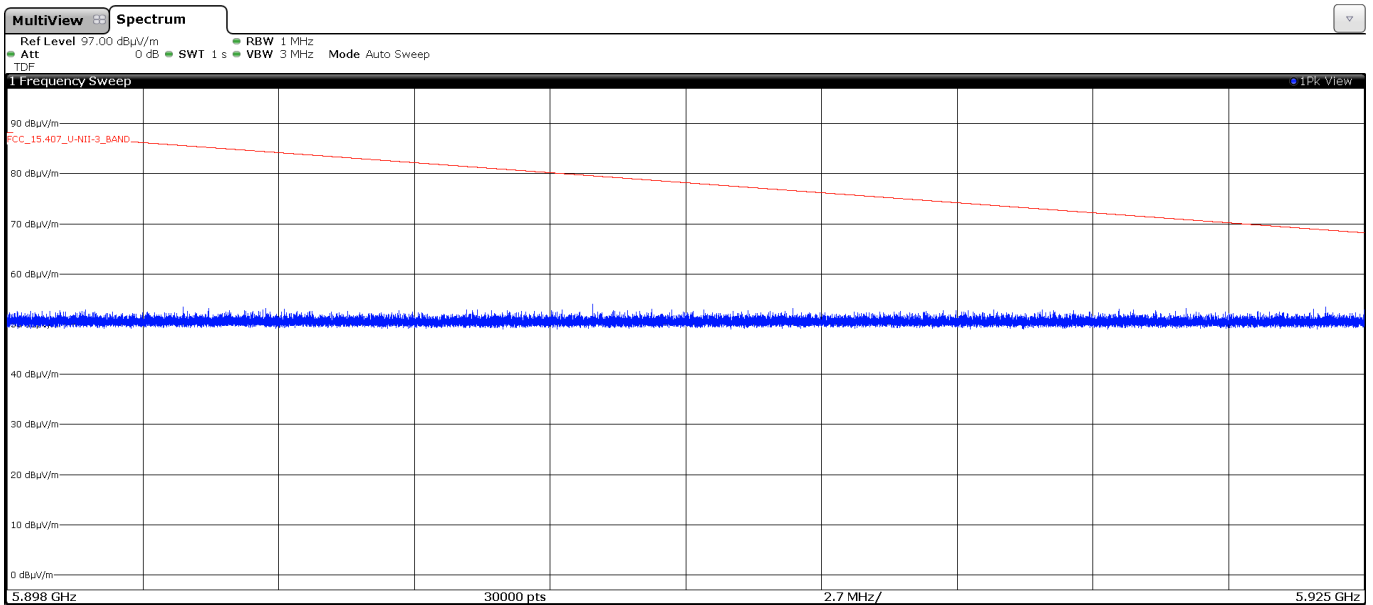


### Radiated spurious emissions at band edges and inside adjacent band 5.898 – 5.925 GHz

- Low Channel 151 (5755 MHz):



- High Channel 159 (5795 MHz):

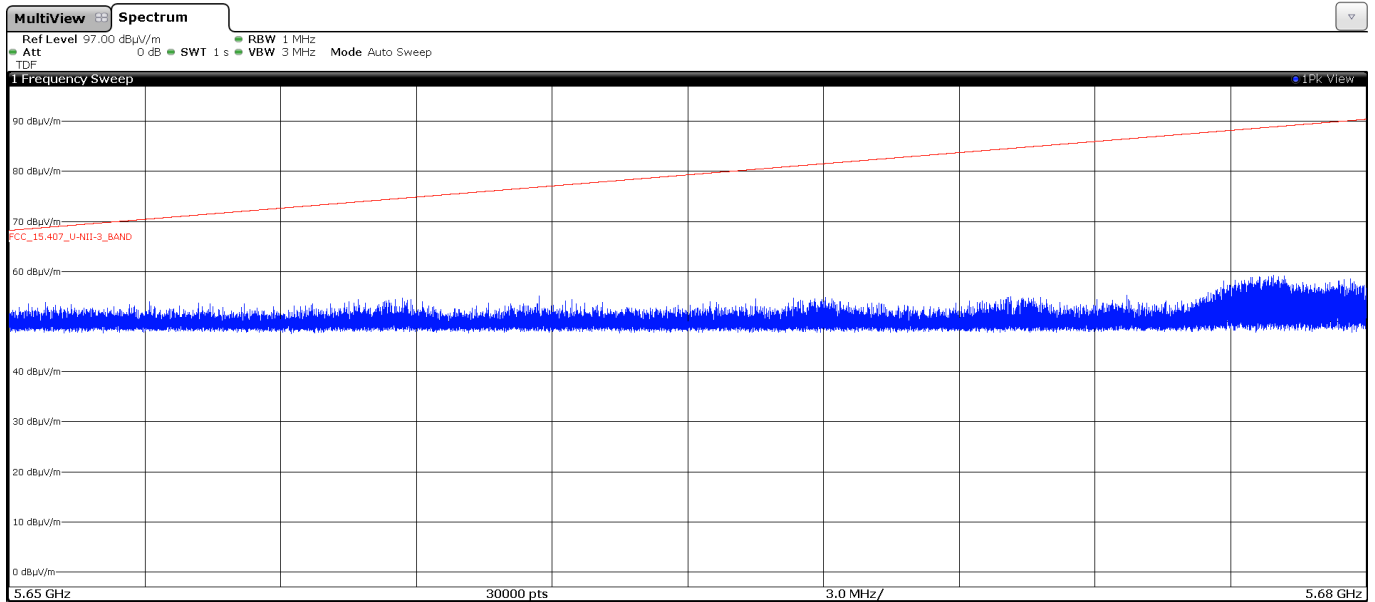




- **Mode 802.11 ac80 (VHT80)**

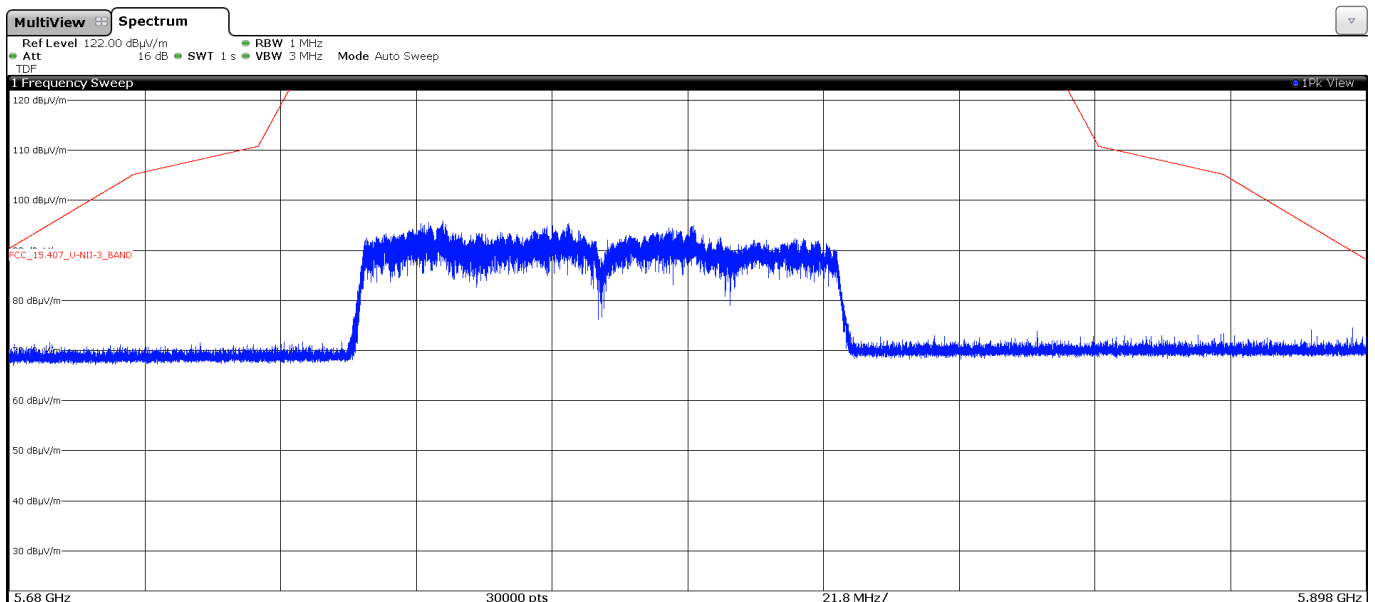
**Radiated spurious emissions at band edges and inside adjacent band 5.65 – 5.68 GHz**

- Middle Channel 155 (5775 MHz):



**Radiated spurious emissions at band edges and inside adjacent band 5.68 – 5.898 GHz**

- Middle Channel 155 (5775 MHz):



### Radiated spurious emissions at band edges and inside adjacent band 5.898 – 5.925 GHz

- Middle Channel 155 (5775 MHz):

