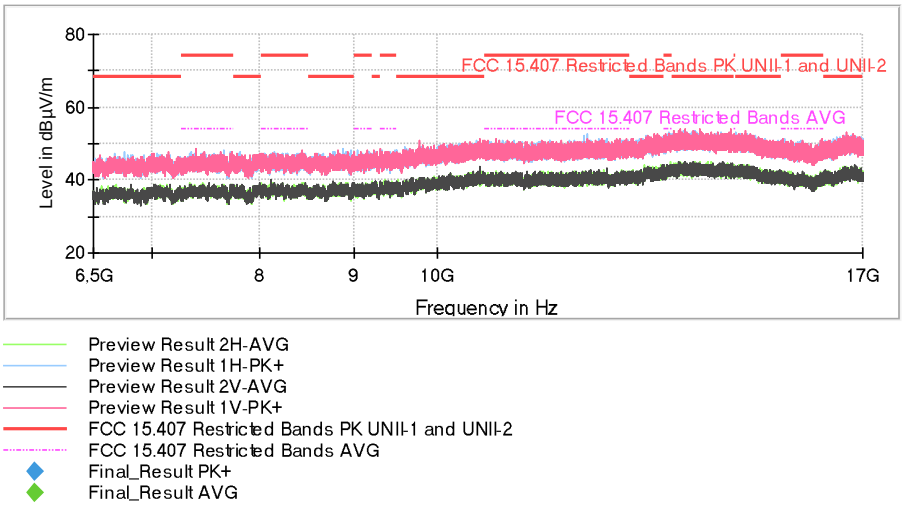
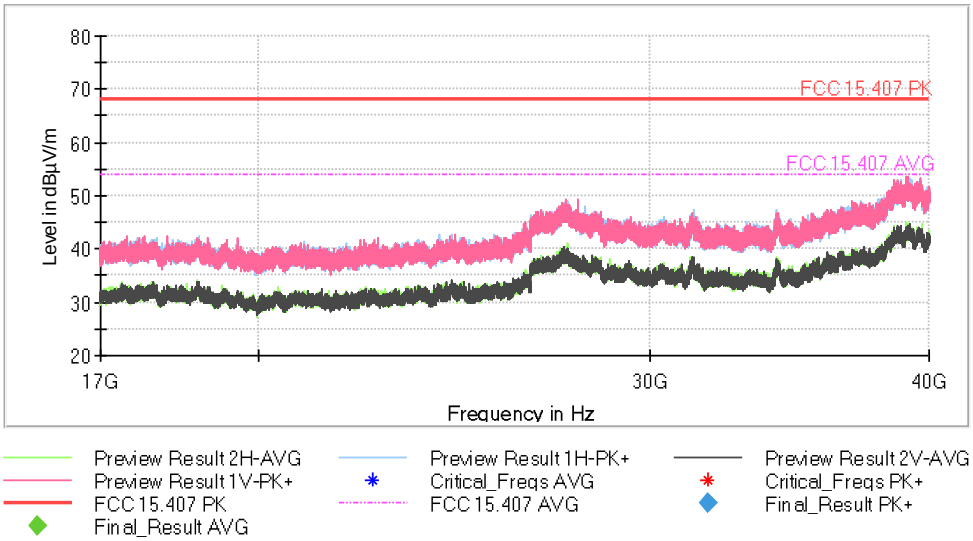
- High Channel 165 (5825 MHz) / RU26 Offset 8:



FREQUENCY RANGE 17 - 40 GHz:

This plot is valid for Low, Middle and High channels.



MIMO worst case: 802.11 ax20 (HE20) – RU Subcarrier allocation, RU26.

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 detected at less than 20 dB below the limit:

Spurious frequency (MHz)	Emission Level (dBµV/m)	Polarization	Detector
599.996250	33.28	V	Quasi-Peak
874.991250	32.40	V	Quasi-Peak

Measurement Uncertainty (dB) < ± 5.1

Frequency range 1 - 40 GHz

The results in the next tables show the maximum measured levels in the 1-40 GHz range except the 5.65-5.725 GHz and 5.85-5.925GHz adjacent bands. The results in the adjacent bands are reported in the next section.

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.

- Low Channel. RU26 Offset 0.

  Spurious frequencies detected at less than 20 dB below the limit:

Spurious frequency (GHz)	Emission Level (dBµV/m)	Polarization	Detector
1.375400	40.46	V	Peak
1.625000	42.59	V	Peak
4.991800	52.35	H	Peak
5.021500	51.61	H	Peak
5.136700	50.95	H	Peak

- Middle Channel. RU26 Offset 4.

  Spurious frequencies detected at less than 20 dB below the limit:

Spurious frequency (GHz)	Emission Level (dBµV/m)	Polarization	Detector
1.375000	40.69	V	Peak
1.687600	42.40	H	Peak
4.002000	51.78	V	Peak
4.934800	52.24	V	Peak
5.079400	51.94	V	Peak
5.117800	51.06	V	Peak
5.402800	51.50	H	Peak

- High Channel. RU26 Offset 8.

  Spurious frequencies detected at less than 20 dB below the limit:

Spurious frequency (GHz)	Emission Level (dBµV/m)	Polarization	Detector
1.375200	40.97	V	Peak
1.624800	41.62	V	Peak
1.687700	41.55	H	Peak
5.025500	50.33	V	Peak

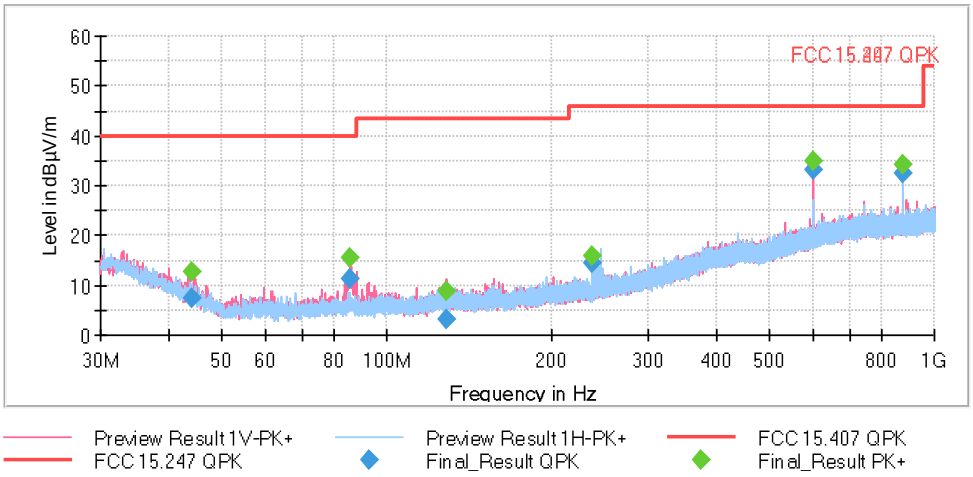
Measurement Uncertainty (dB): 1 GHz – 6.5 GHz < ±4.11
6.5 GHz – 17 GHz < ±4.32
17 GHz – 40 GHz < ±4.75

Verdict: PASS

MIMO worst-case

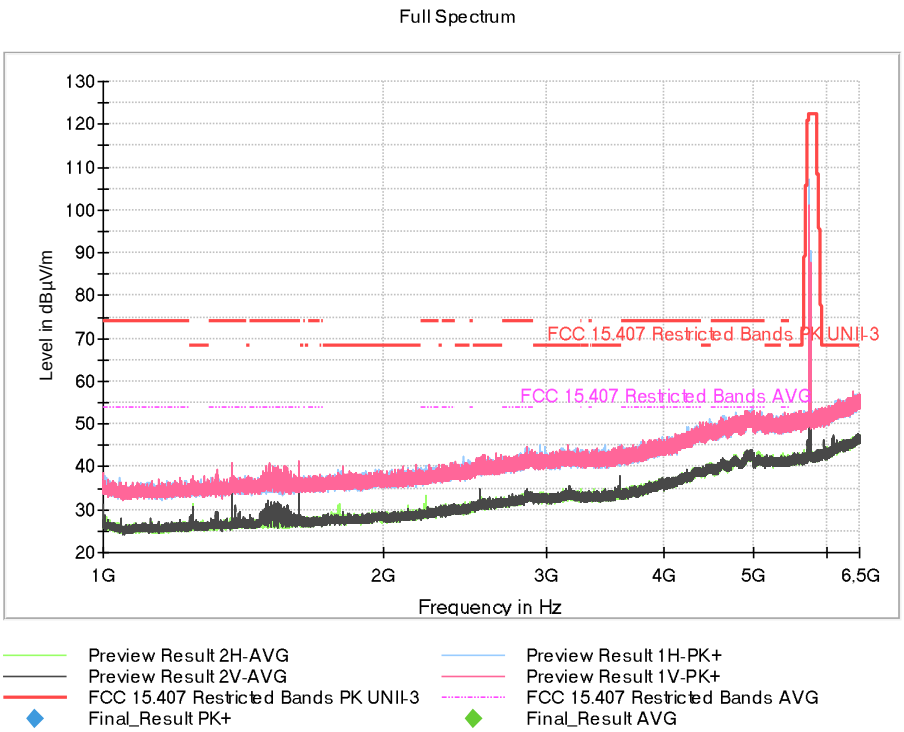
FREQUENCY RANGE 30 MHz - 1 GHz:

This plot is valid for Low, Middle and High channels.



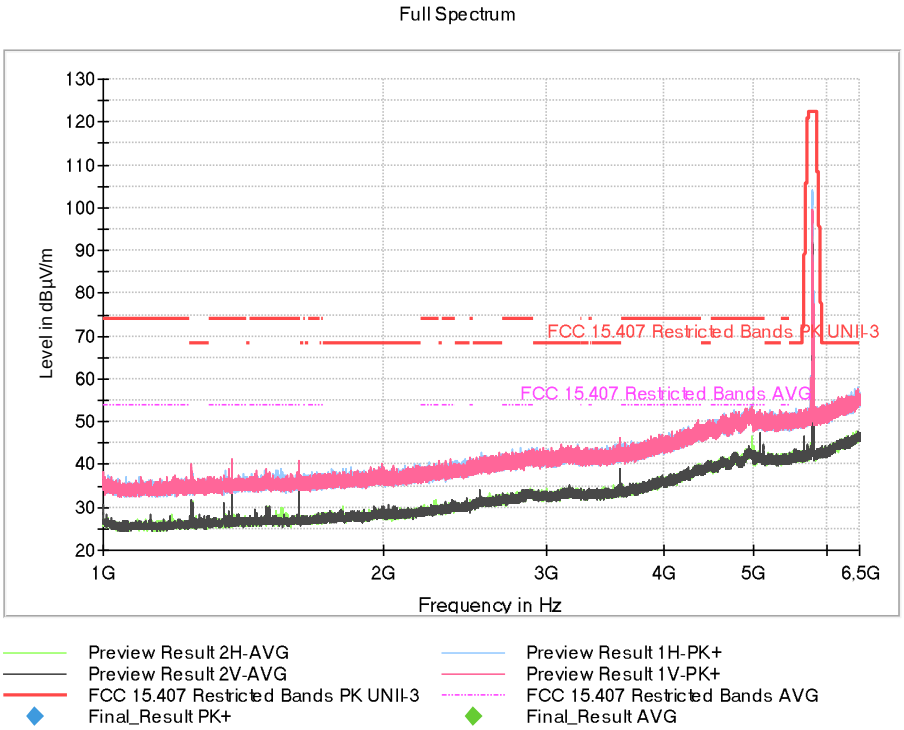
FREQUENCY RANGE 1 - 6.5 GHz:

- Low Channel 149 (5745 MHz) / RU26 Offset 0:



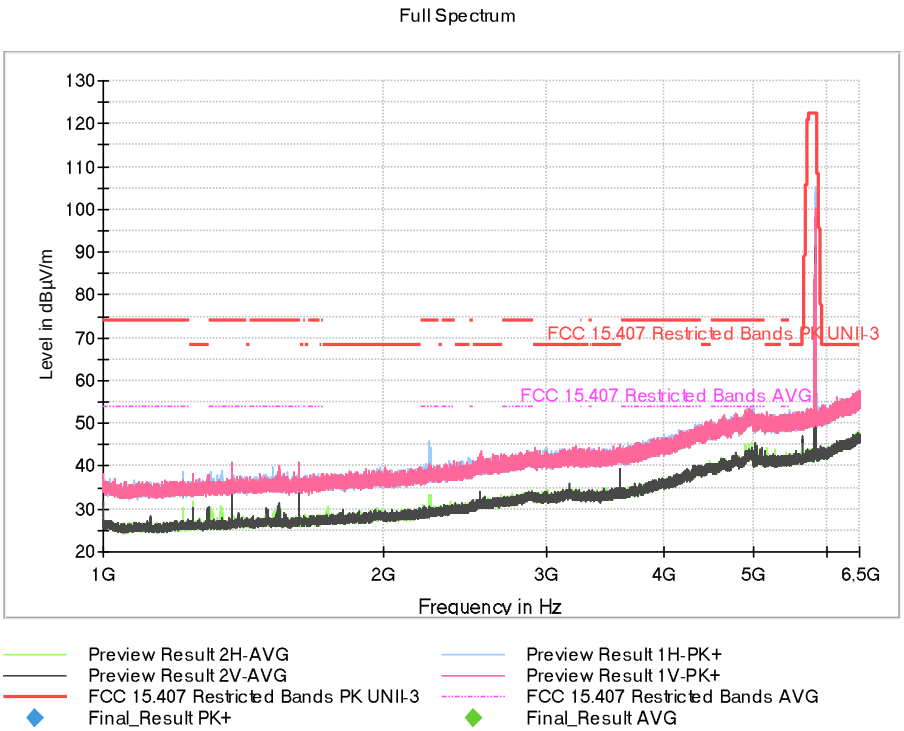
Note: The highest peak is the carrier frequency.

- Middle Channel 157 (5785 MHz) / RU26 Offset 4:



Note: The highest peak is the carrier frequency.

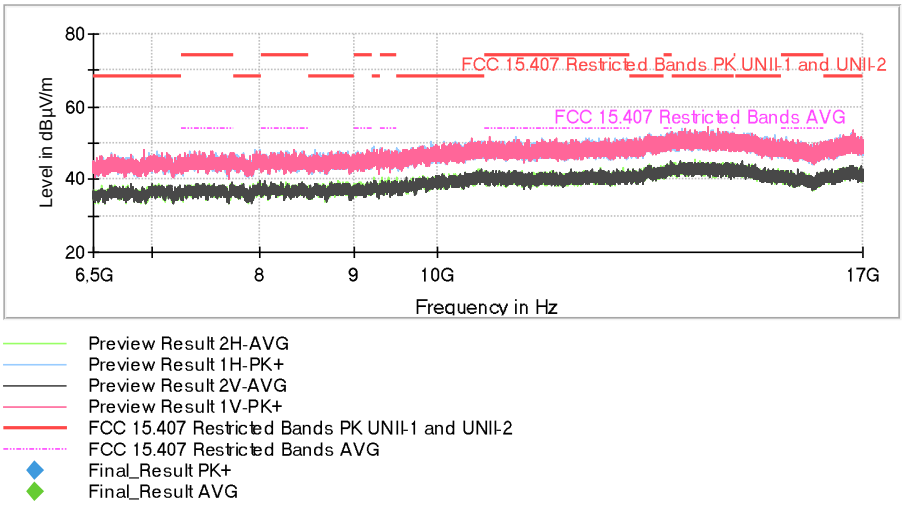
- High Channel 165 (5825 MHz) / RU26 Offset 8:



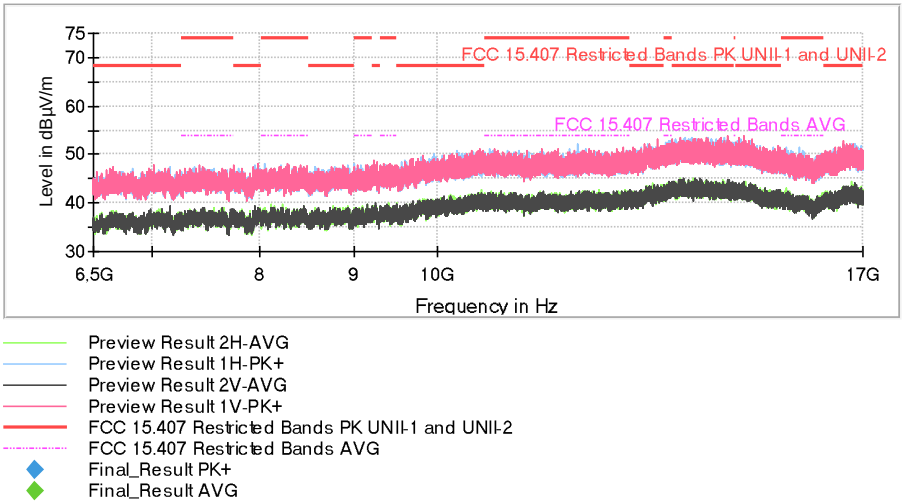
Note: The highest peak is the carrier frequency.

FREQUENCY RANGE 6.5 - 17 GHz:

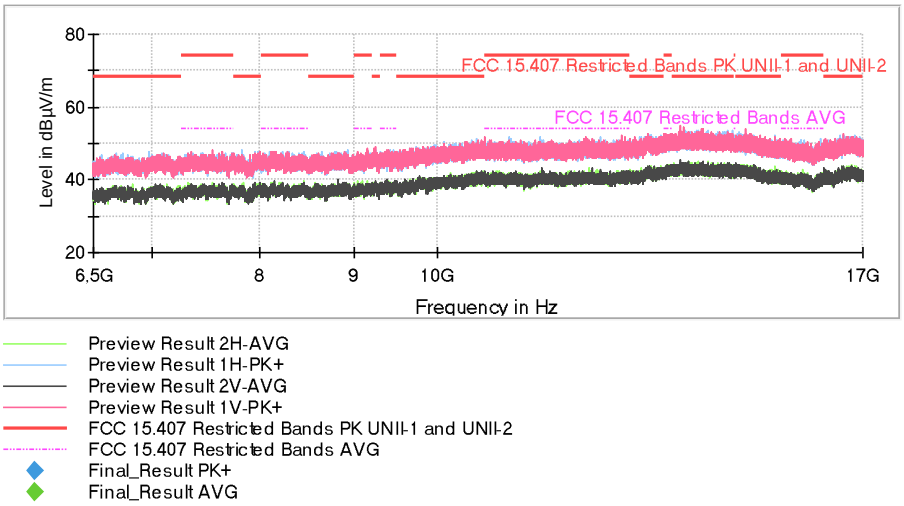
- Low Channel 149 (5745 MHz) / RU26 Offset 0:



- Middle Channel 157 (5785 MHz) / RU26 Offset 4:

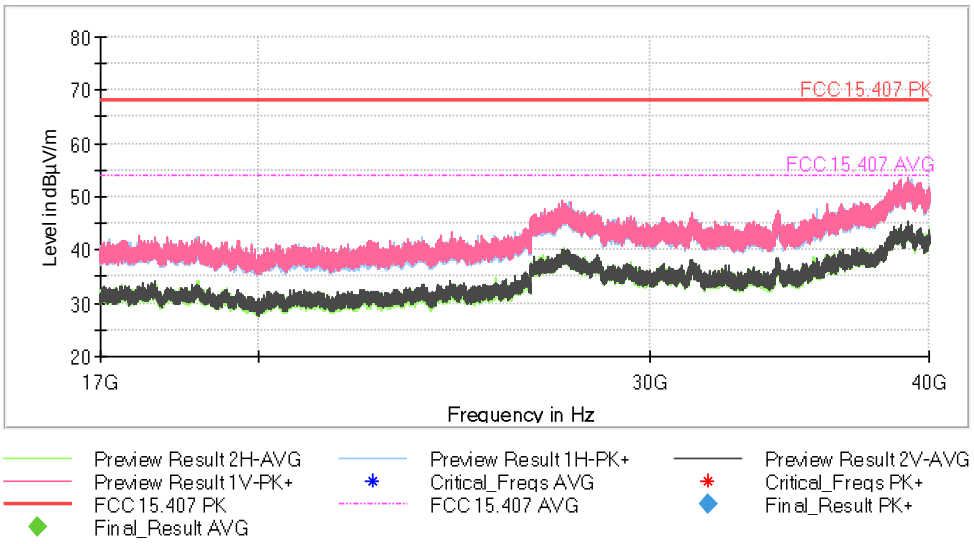


- High Channel 165 (5825 MHz) / RU26 Offset 8:



FREQUENCY RANGE 17 - 40 GHz:

This plot is valid for Low, Middle and High Channels.



BAND EDGE EMISSIONS:

SISO worst case (Chain 1)

- **SISO 802.11 a20. Spurious emissions inside of the mask 5.65-5.925 GHz:**
  - Low Channel:

    No spurious frequencies at less than 20 dB below the limit.
  - Middle Channel:

    No spurious frequencies at less than 20 dB below the limit.
  - High Channel:

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

- **SISO 802.11 n20. Spurious emissions inside of the mask 5.65-5.925 GHz:**
  - Low Channel:

    No spurious frequencies at less than 20 dB below the limit.
  - Middle Channel:

    No spurious frequencies at less than 20 dB below the limit.
  - High Channel:

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

- **SISO 802.11 ac20. Spurious emissions inside of the mask 5.65-5.925 GHz:**
  - Low Channel:

    No spurious frequencies at less than 20 dB below the limit.
  - Middle Channel:

    No spurious frequencies at less than 20 dB below the limit.
  - High Channel:

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

- **SISO 802.11 ax20 (he20) – SU Full channel allocation.**
  Spurious emissions inside of the mask 5.65-5.925 GHz:
  - Low Channel:

    No spurious frequencies at less than 20 dB below the limit.
  - Middle Channel:

    No spurious frequencies at less than 20 dB below the limit.
  - High Channel:

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

- **SISO 802.11 ax20 (he20) – RU Subcarrier allocation (RU26).**
  Spurious emissions inside of the mask 5.65-5.925 GHz:
  - Low Channel / RU26 Offset 0:

    No spurious frequencies at less than 20 dB below the limit.
  - Middle Channel / RU26 Offset 4:

    No spurious frequencies at less than 20 dB below the limit.
  - High Channel / RU26 Offset 8:

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

- **SISO 802.11 n40. Spurious emissions inside of the mask 5.65-5.925 GHz:**
  - Low Channel:

    No spurious frequencies at less than 20 dB below the limit.
  - High Channel:

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

- **SISO 802.11 ac40. Spurious emissions inside of the mask 5.65-5.925 GHz:**
  - Low Channel:

    No spurious frequencies at less than 20 dB below the limit.
  - High Channel:

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

- **SISO 802.11 ax40 (he40) – SU Full channel allocation.**
  Spurious emissions inside of the mask 5.65-5.925 GHz:
  - Low Channel / RU26 Offset 0:

    No spurious frequencies at less than 20 dB below the limit.
  - High Channel / RU26 Offset 17:

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

- **SISO 802.11 ax40 (he40) – RU Subcarrier allocation (RU26).**
  Spurious emissions inside of the mask 5.65-5.925 GHz:
  - Low Channel / RU26 Offset 0:

    No spurious frequencies at less than 20 dB below the limit.
  - High Channel / RU26 Offset 17:

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

- **SISO 802.11 ac80. Spurious emissions inside of the mask 5.65-5.925 GHz:**
  - Single Channel:

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

- **SISO 802.11 ax80 (he80) – SU Full channel allocation.**
  Spurious emissions inside of the mask 5.65-5.925 GHz:
  - Single Channel:

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

Measurement Uncertainly (dB) < ± 4.6

Verdict: PASS

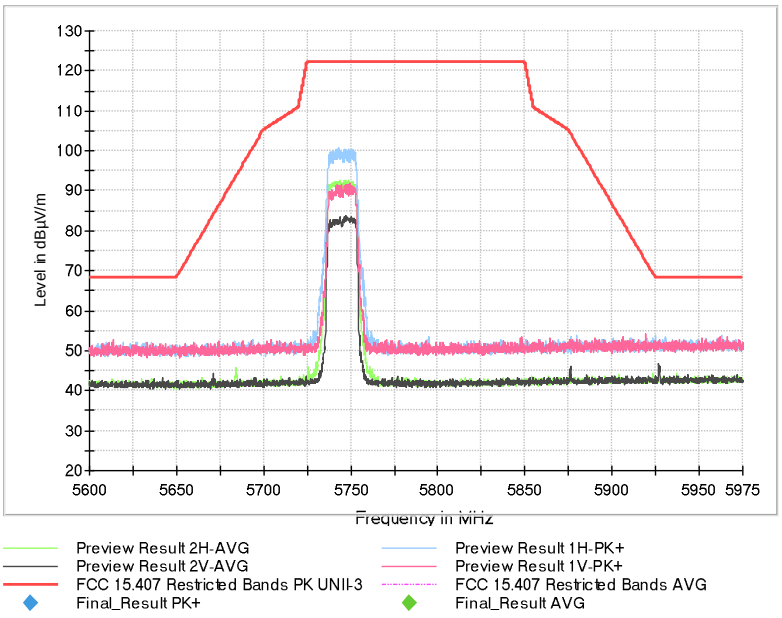
The measurement settings for band edge measurements is as follows:

Subrange	Step Size	Detectors	Bandwidth	Sweep Time	Preamp
Receiver: [ESW 44]					
1 GHz - 6,5 GHz	100 kHz	PK+ ; AVG	1 MHz	1 s	0 dB

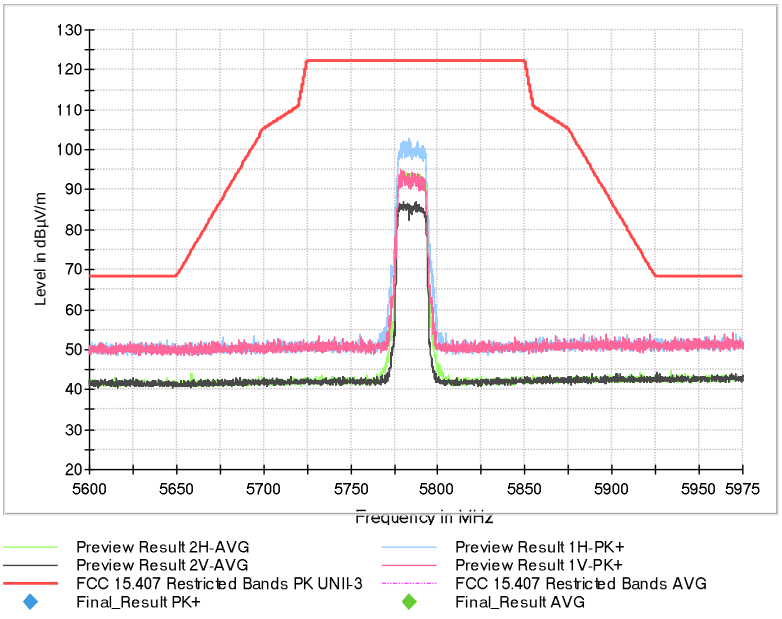
SISO worst case (Chain 1)

- **SISO 802.11 a20:**

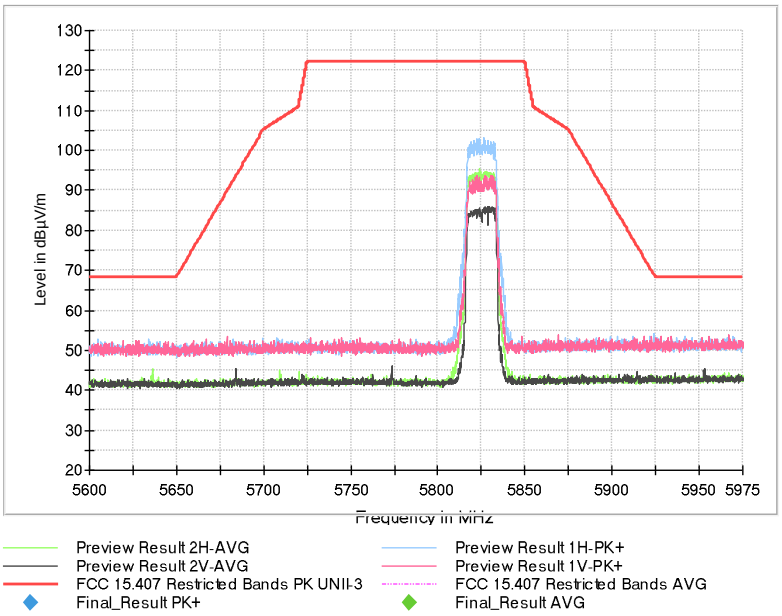
  - Low Channel 149 (5745 MHz):



  - Middle Channel 157 (5785 MHz):

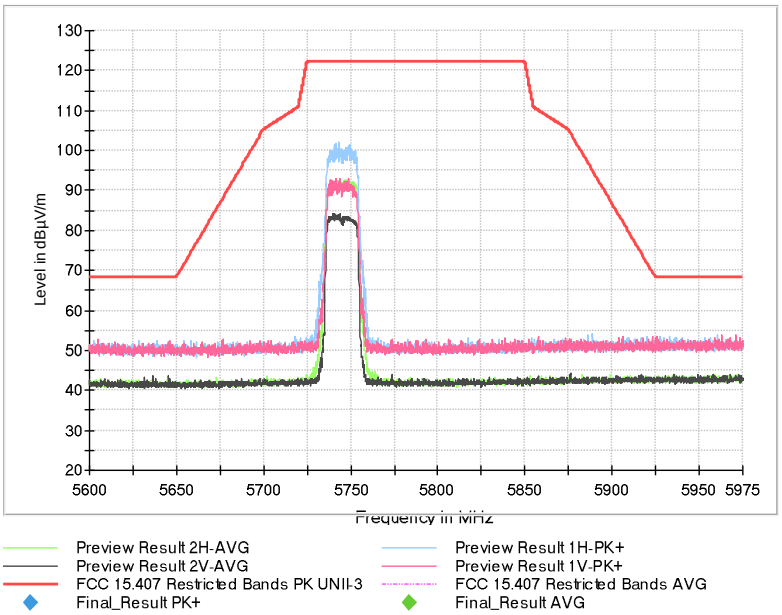


- High Channel 165 (5825 MHz):

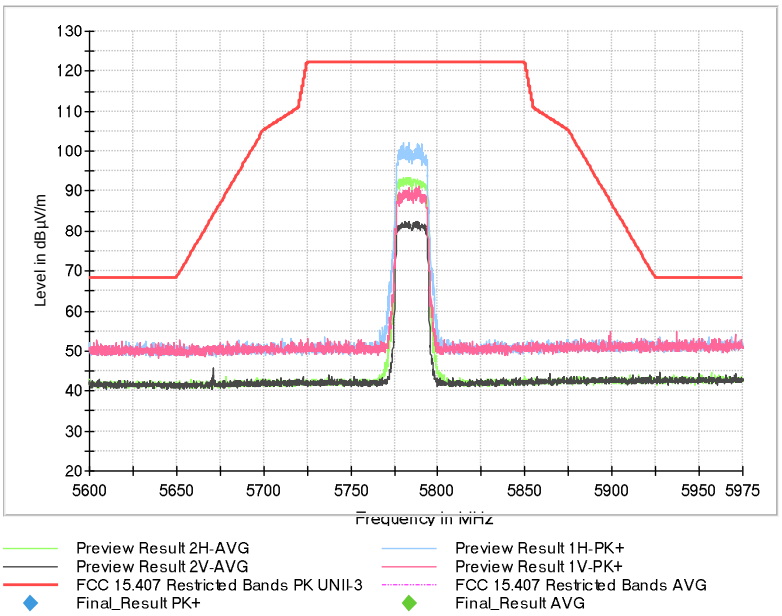


- **SISO 802.11 n20:**

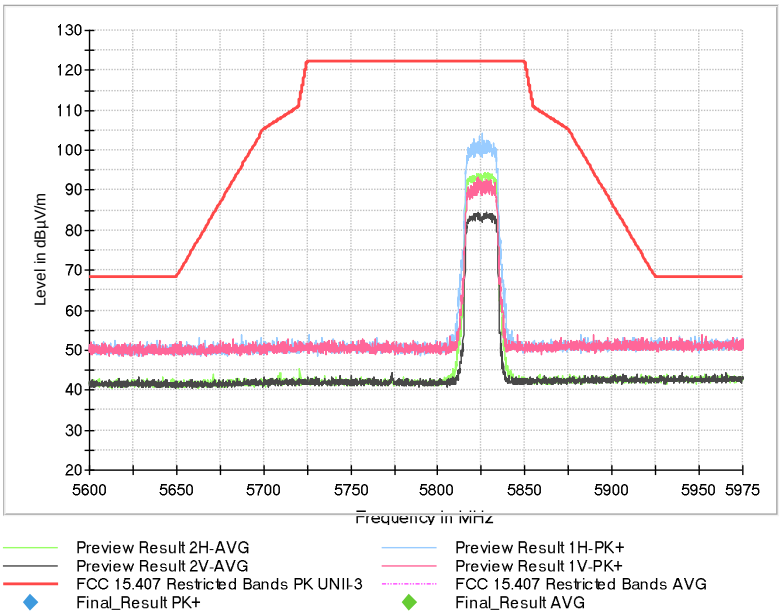
  - Low Channel 149 (5745 MHz):



  - Middle Channel 157 (5785 MHz):

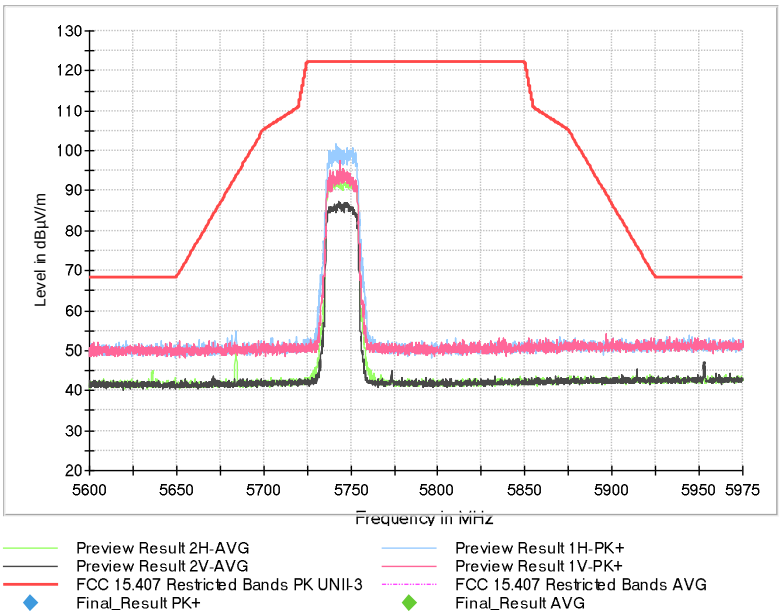


- High Channel 165 (5825 MHz):

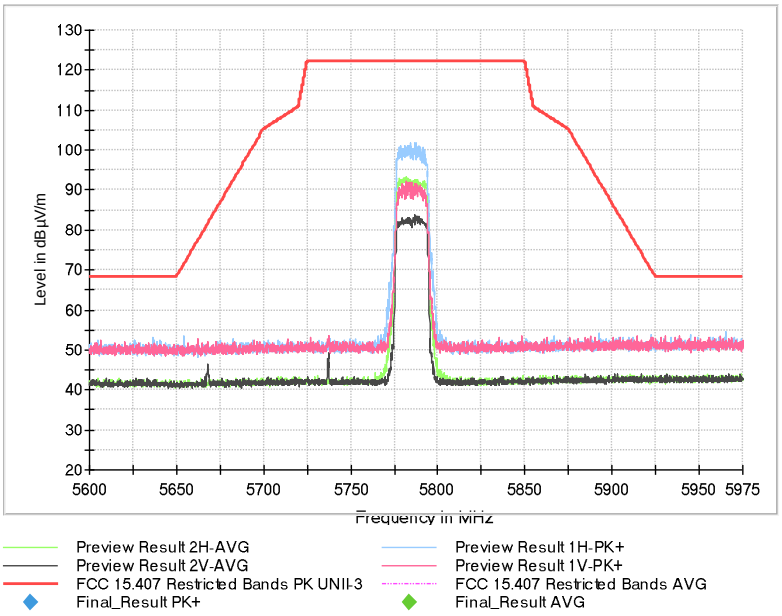


- **SISO 802.11 ac20:**

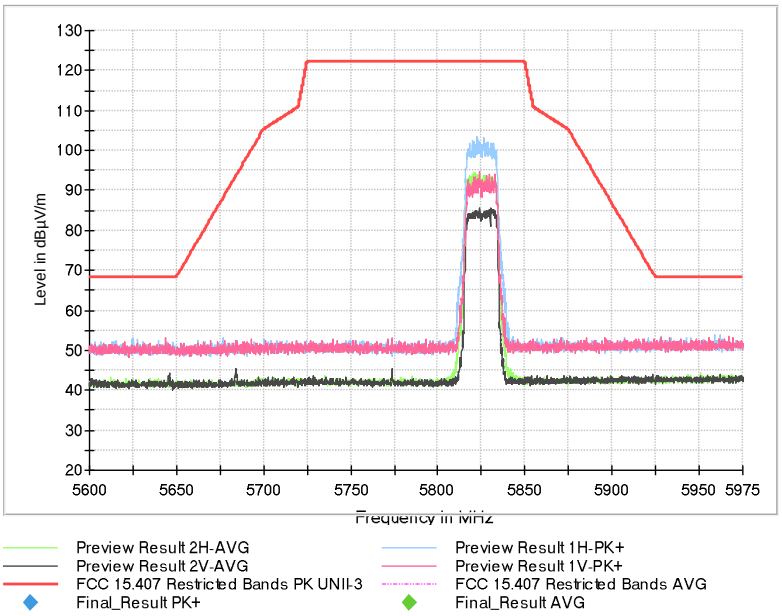
  - Low Channel 149 (5745 MHz):



  - Middle Channel 157 (5785 MHz):

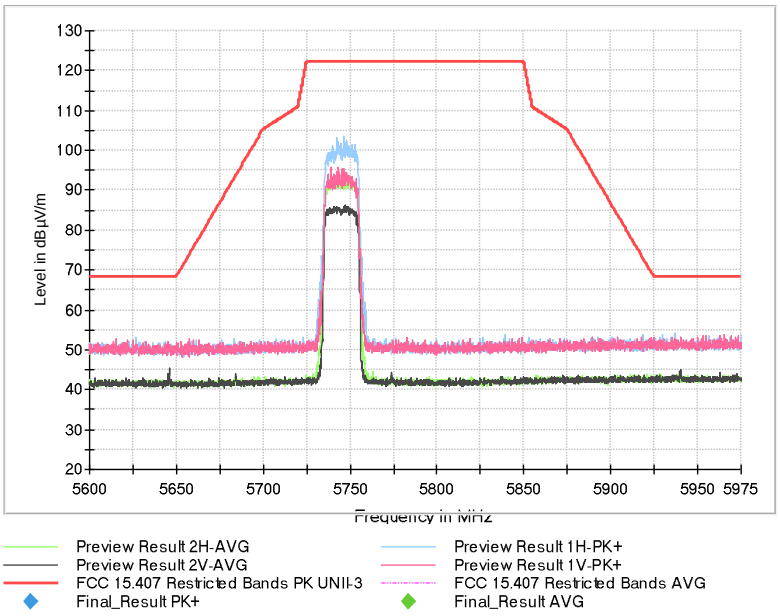


- High Channel 165 (5825 MHz):

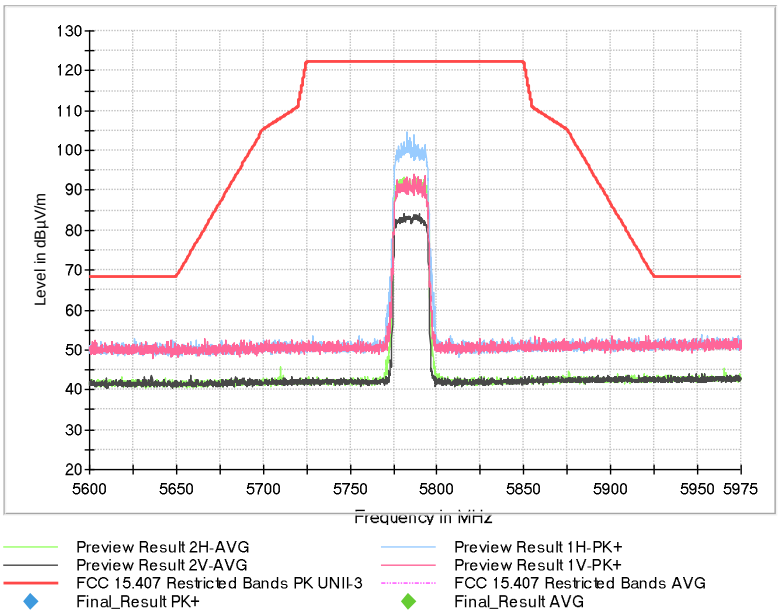


- **SISO 802.11 ax20 (he20) – SU Full channel allocation:**

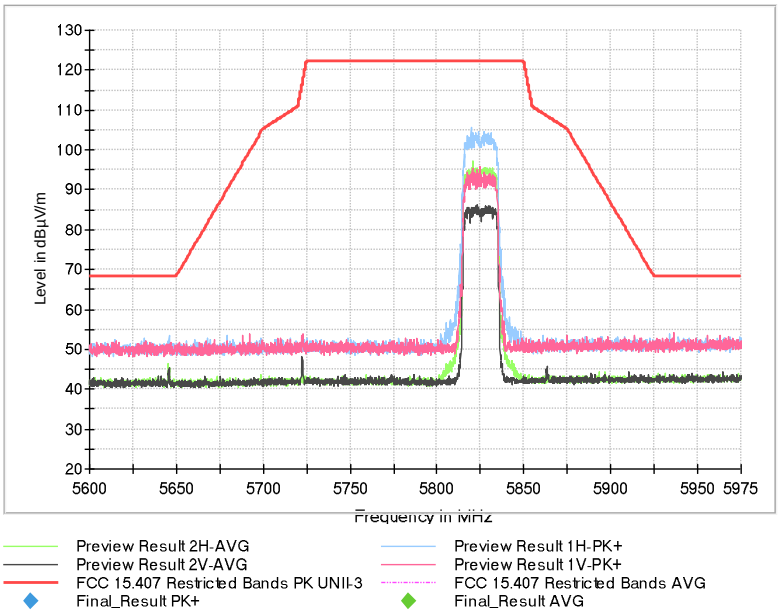
  - Low Channel 149 (5745 MHz):



  - Middle Channel 157 (5785 MHz):

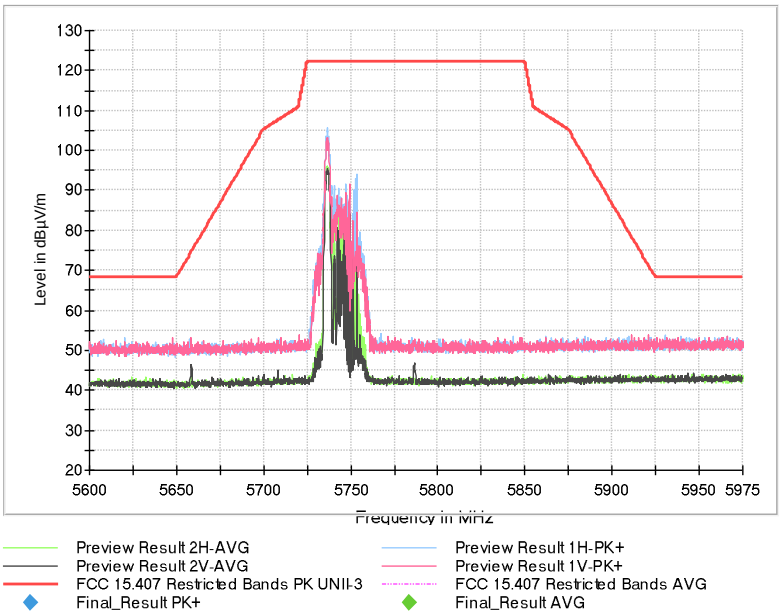


- High Channel 165 (5825 MHz):

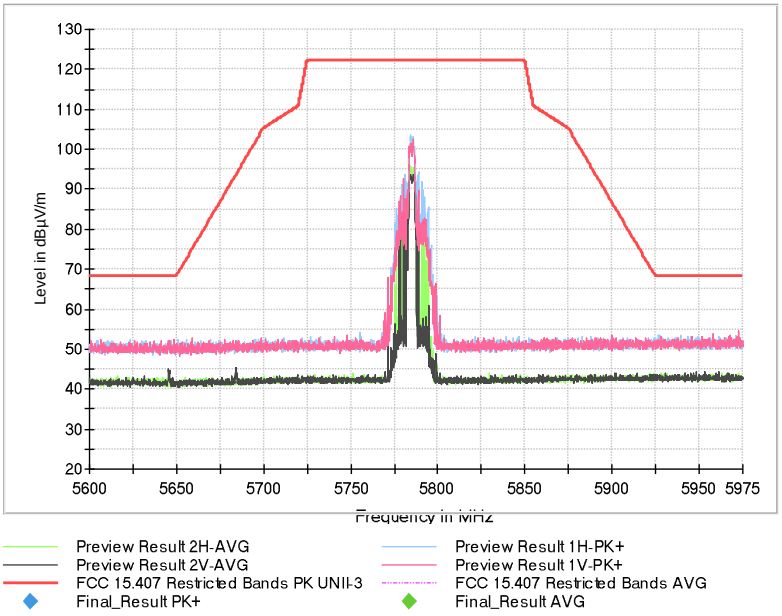


- **SISO 802.11 ax20 (he20) – RU Subcarrier allocation (RU26):**

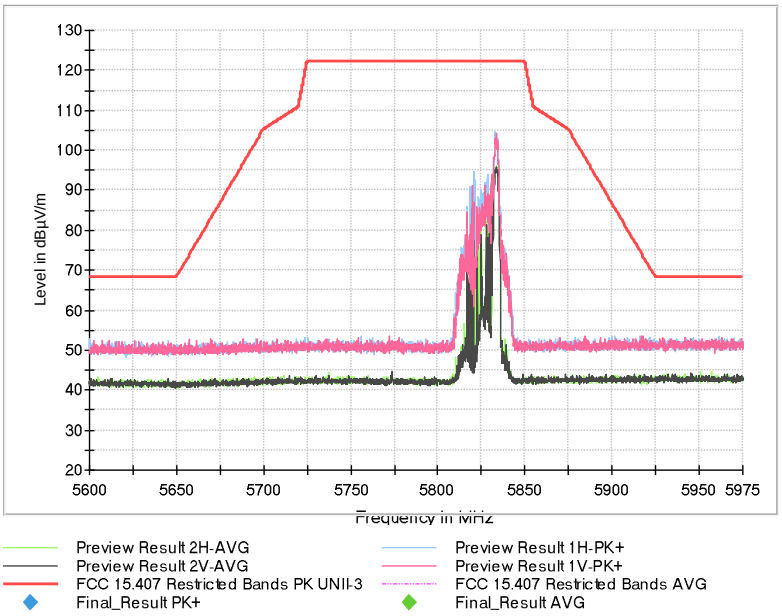
  - Low Channel 149 (5745 MHz) / RU26 Offset 0:



  - Middle Channel 157 (5785 MHz) / RU26 Offset 4:

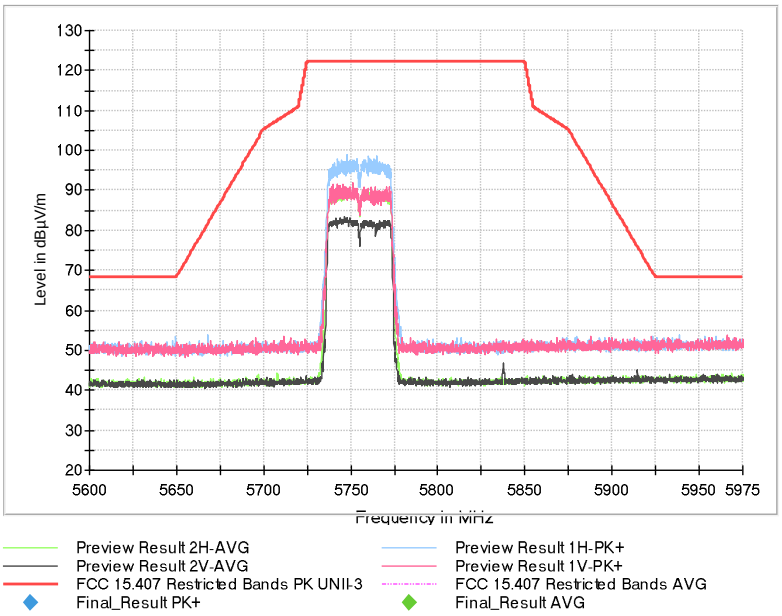


- High Channel 165 (5825 MHz) / RU26 Offset 8:

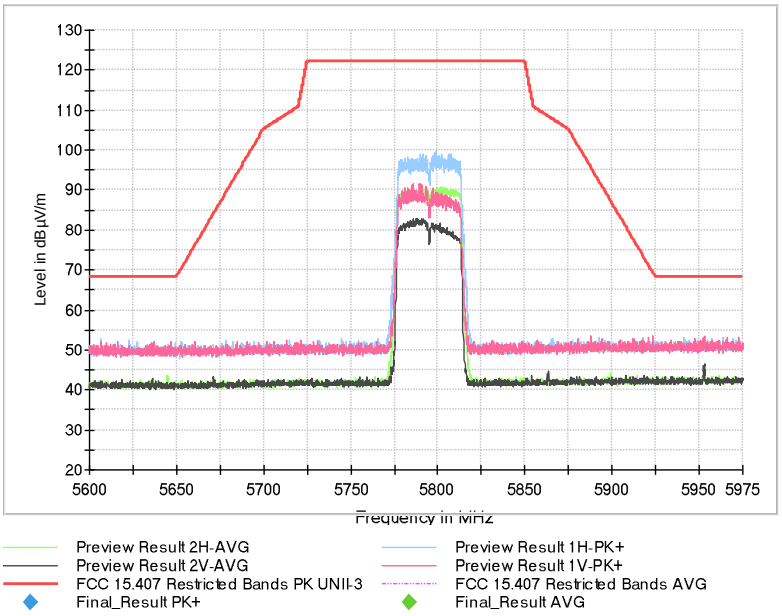


- **SISO 802.11 n40:**

  - Low Channel 151 (5755 MHz):

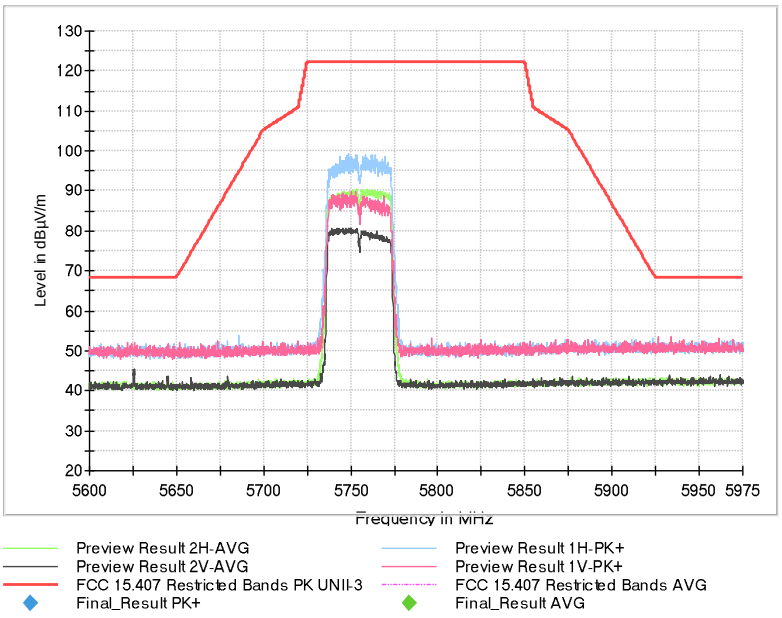


  - High Channel 159 (5795 MHz):

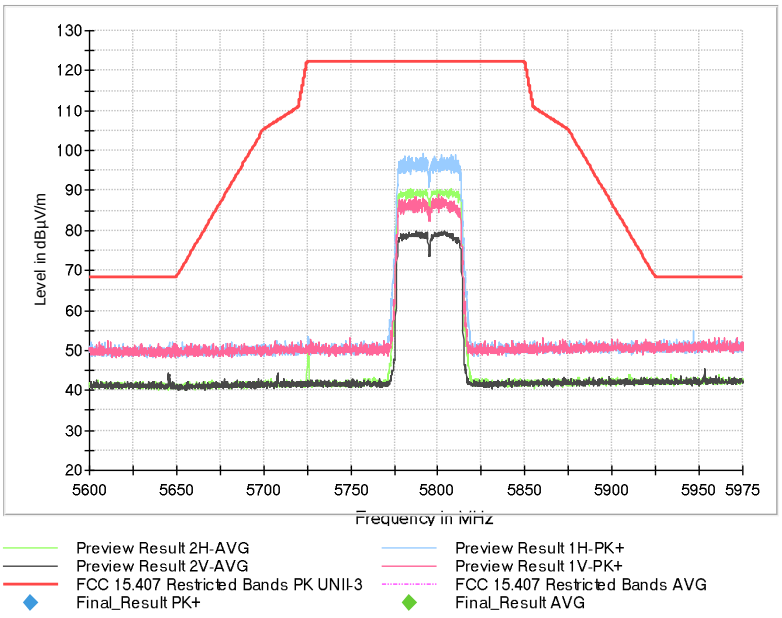


- **SISO 802.11 ac40:**

  - - Low Channel 151 (5755 MHz):

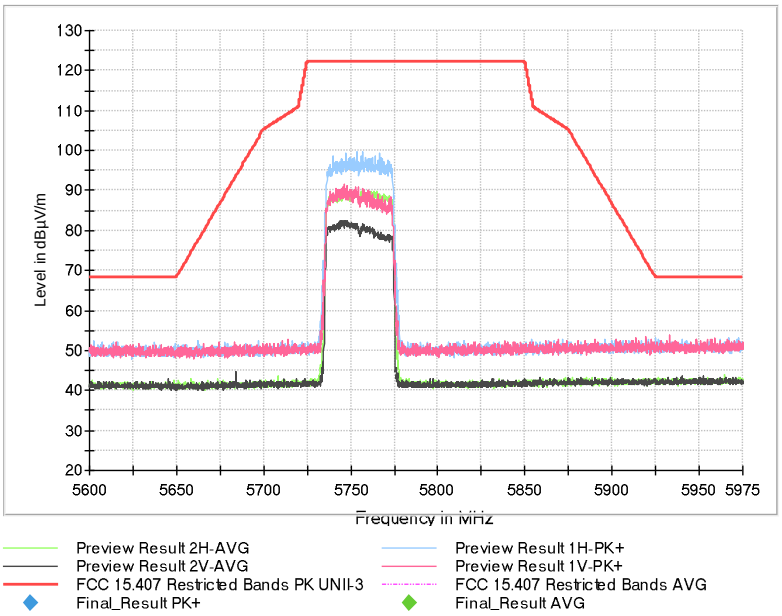


- High Channel 159 (5795 MHz):

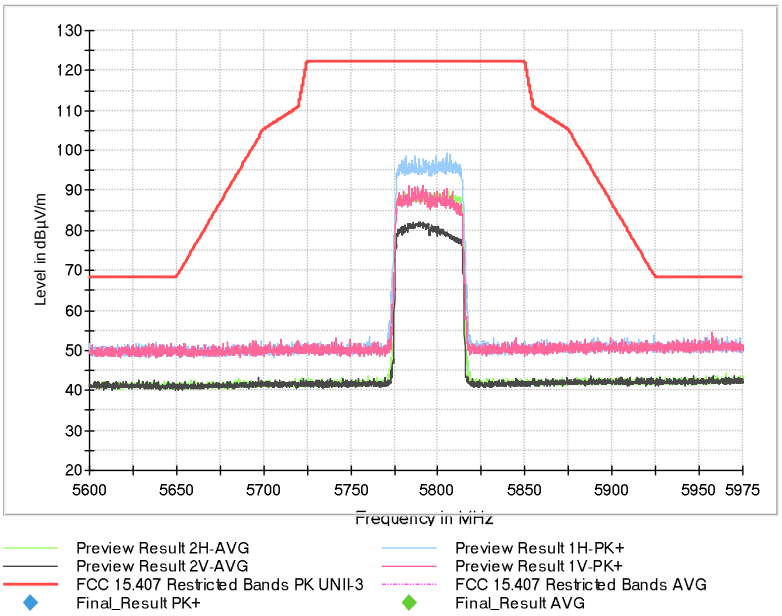


- **SISO 802.11 ax40 (he40) – SU Full channel allocation:**

  - Low Channel 151 (5755 MHz):

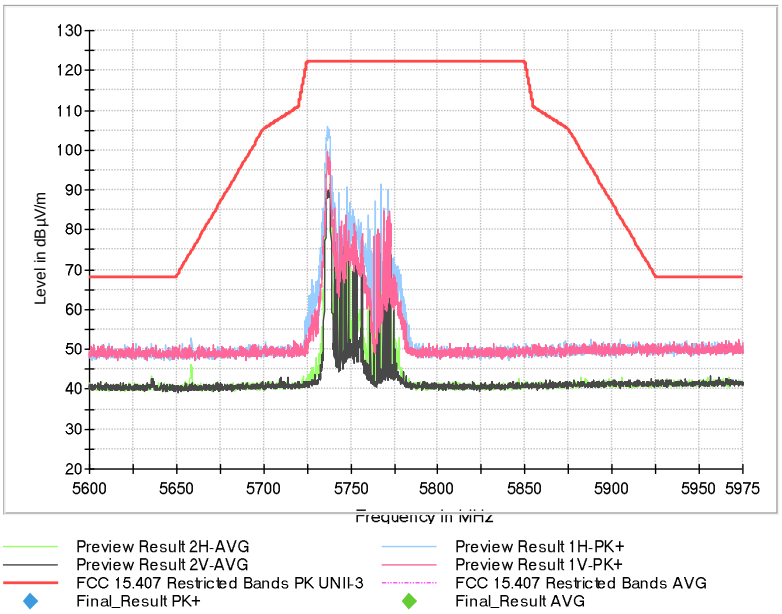


  - High Channel 159 (5795 MHz):

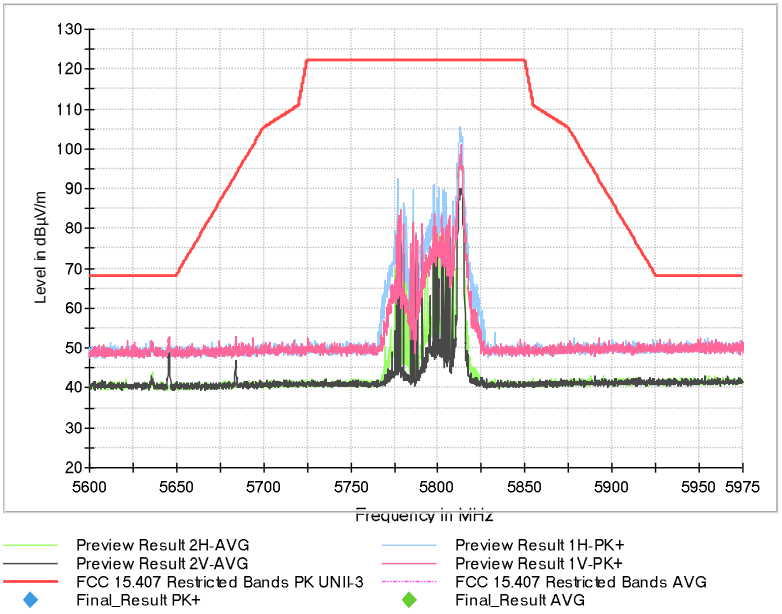


- **SISO 802.11 ax40 (he40) – RU Subcarrier allocation (RU26):**

  - Low Channel 151 (5755 MHz) / RU26 Offset 0:

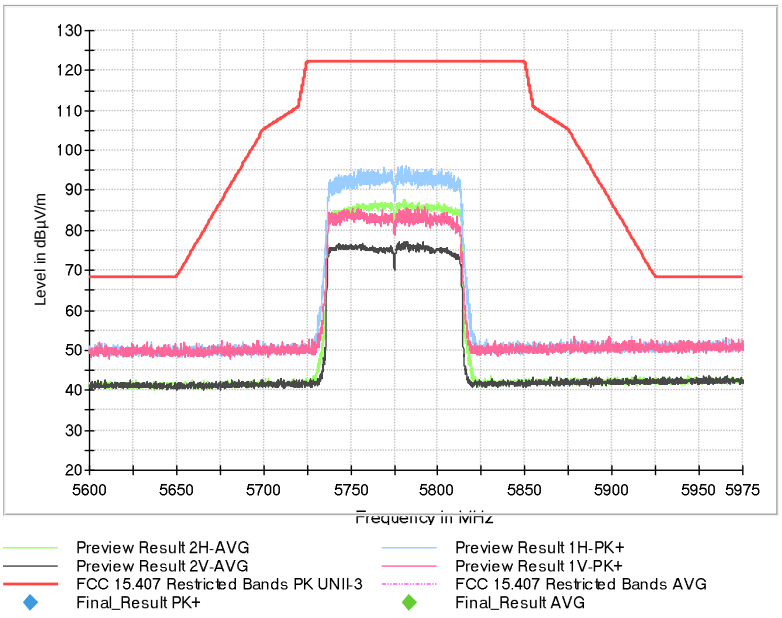


  - High Channel 159 (5795 MHz) / RU26 Offset 17:



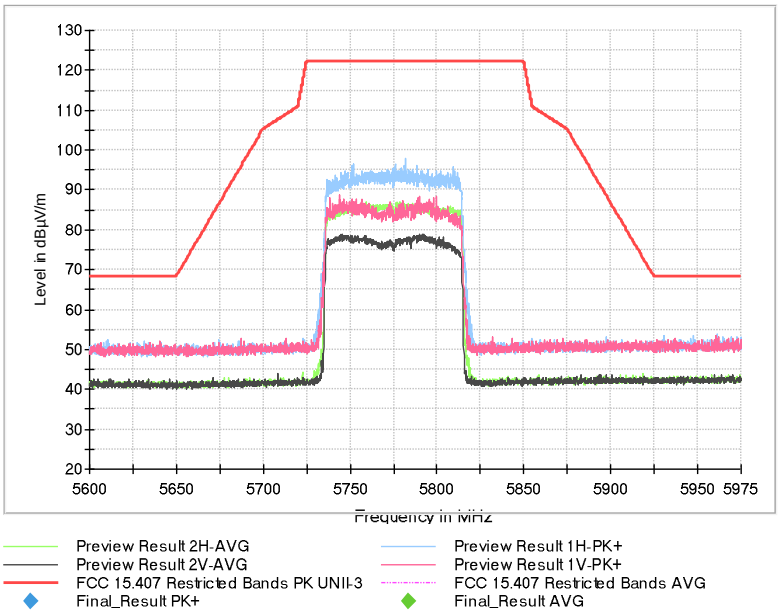
- **SISO 802.11 ac80:**

  - Single Channel 155 (5775 MHz):



- **SISO 802.11 ax80 (he80) – SU Full channel allocation:**

  - Single Channel 155 (5775 MHz):



MIMO

- **MIMO 802.11 a20. Spurious emissions inside of the mask 5.65-5.925 GHz:**
  - Low Channel:

    No spurious frequencies at less than 20 dB below the limit.
  - Middle Channel:

    No spurious frequencies at less than 20 dB below the limit.
  - High Channel:

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

- **MIMO 802.11 n20. Spurious emissions inside of the mask 5.65-5.925 GHz:**
  - Low Channel:

    No spurious frequencies at less than 20 dB below the limit.
  - Middle Channel:

    No spurious frequencies at less than 20 dB below the limit.
  - High Channel:

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

- **MIMO 802.11 ac20. Spurious emissions inside of the mask 5.65-5.925 GHz:**
  - Low Channel:

    No spurious frequencies at less than 20 dB below the limit.
  - Middle Channel:

    No spurious frequencies at less than 20 dB below the limit.
  - High Channel:

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

- **MIMO 802.11 ax20 (he20) – SU Full channel allocation.**
  Spurious emissions inside of the mask 5.65-5.925 GHz:
  - Low Channel:

    No spurious frequencies at less than 20 dB below the limit.
  - Middle Channel:

    No spurious frequencies at less than 20 dB below the limit.
  - High Channel:

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

- **MIMO 802.11 ax20 (he20) – RU Subcarrier allocation (RU26).**
  Spurious emissions inside of the mask 5.65-5.925 GHz:
  - Low Channel / RU26 Offset 0:

    No spurious frequencies at less than 20 dB below the limit.
  - Middle Channel / RU26 Offset 4:

    No spurious frequencies at less than 20 dB below the limit.
  - High Channel / RU26 Offset 8:

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

- **MIMO 802.11 n40. Spurious emissions inside of the mask 5.65-5.925 GHz:**
  - Low Channel:

    No spurious frequencies at less than 20 dB below the limit.
  - High Channel:

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

- **MIMO 802.11 ac40. Spurious emissions inside of the mask 5.65-5.925 GHz:**
  - Low Channel:

    No spurious frequencies at less than 20 dB below the limit.
  - High Channel:

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

- **MIMO 802.11 ax40 (he40) – SU Full channel allocation.**
  Spurious emissions inside of the mask 5.65-5.925 GHz:
  - Low Channel / RU26 Offset 0:

    No spurious frequencies at less than 20 dB below the limit.
  - High Channel / RU26 Offset 17:

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

- **MIMO 802.11 ax40 (he40) – RU Subcarrier allocation (RU26).**
  Spurious emissions inside of the mask 5.65-5.925 GHz:
  - Low Channel / RU26 Offset 0:

    No spurious frequencies at less than 20 dB below the limit.
  - High Channel / RU26 Offset 17:

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

- **MIMO 802.11 ac80. Spurious emissions inside of the mask 5.65-5.925 GHz:**
  - Single Channel:

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

- **MIMO 802.11 ax80 (he80) – SU Full channel allocation.**
  Spurious emissions inside of the mask 5.65-5.925 GHz:
  - Single Channel:

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

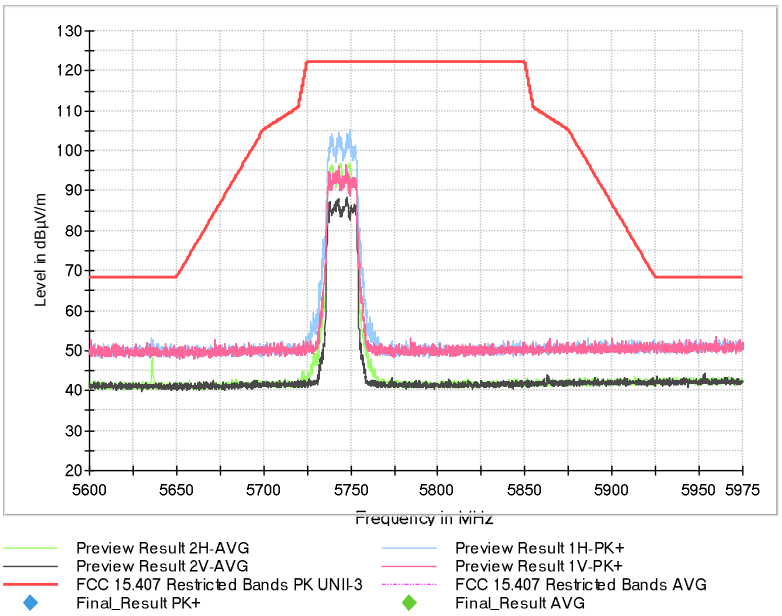
Measurement Uncertainly (dB) < ± 4.6

Verdict: PASS

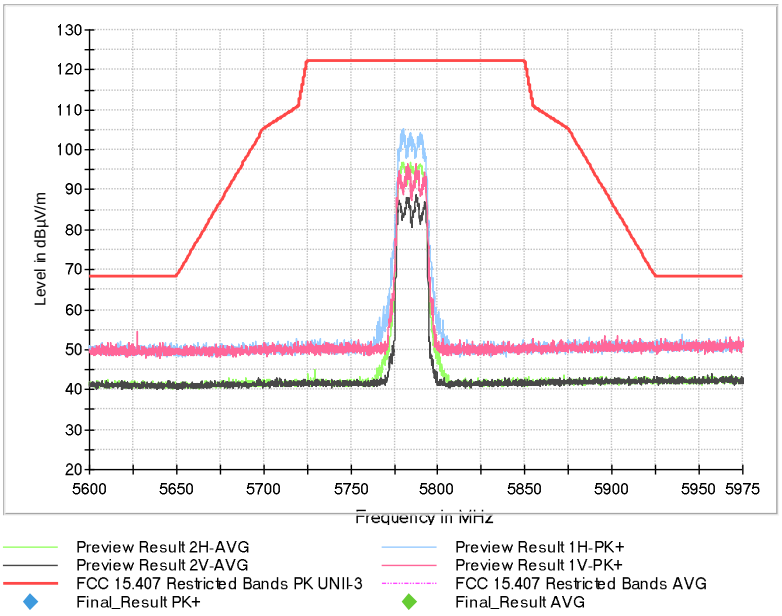
MIMO

- **MIMO 802.11 a20:**

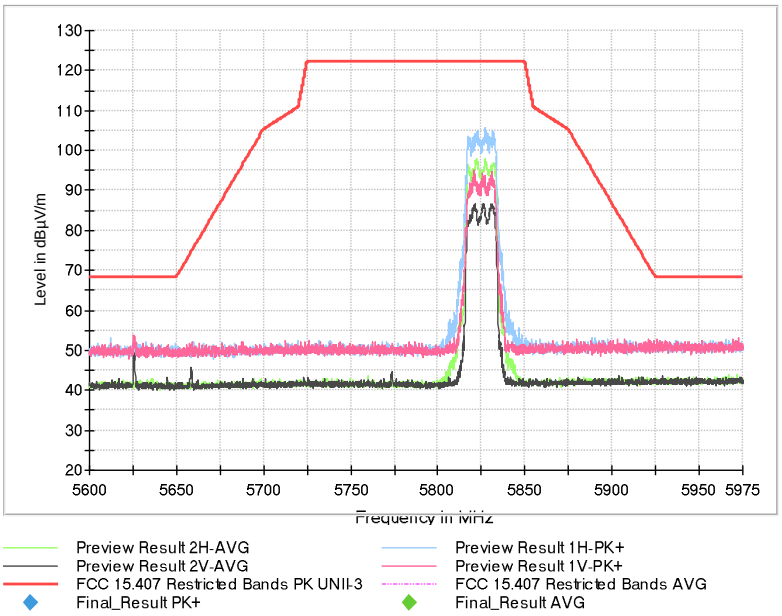
  - Low Channel 149 (5745 MHz):



  - Middle Channel 157 (5785 MHz):

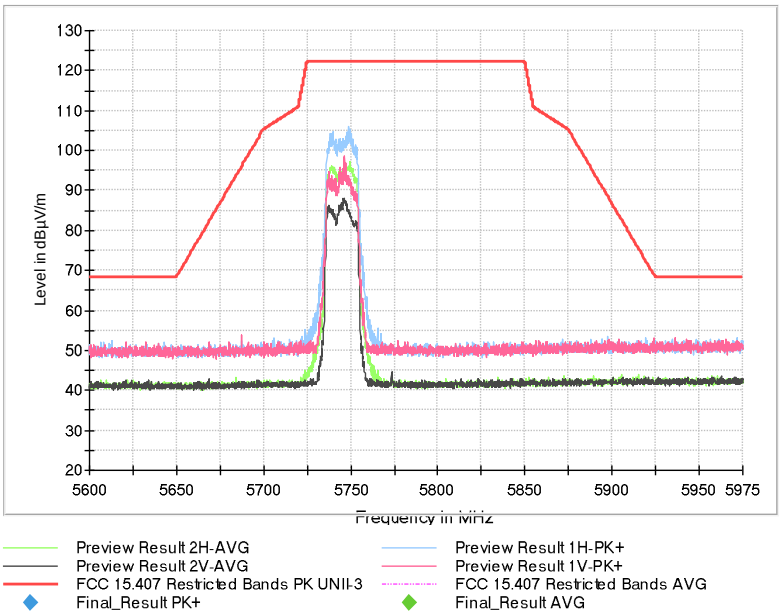


- High Channel 165 (5825 MHz):

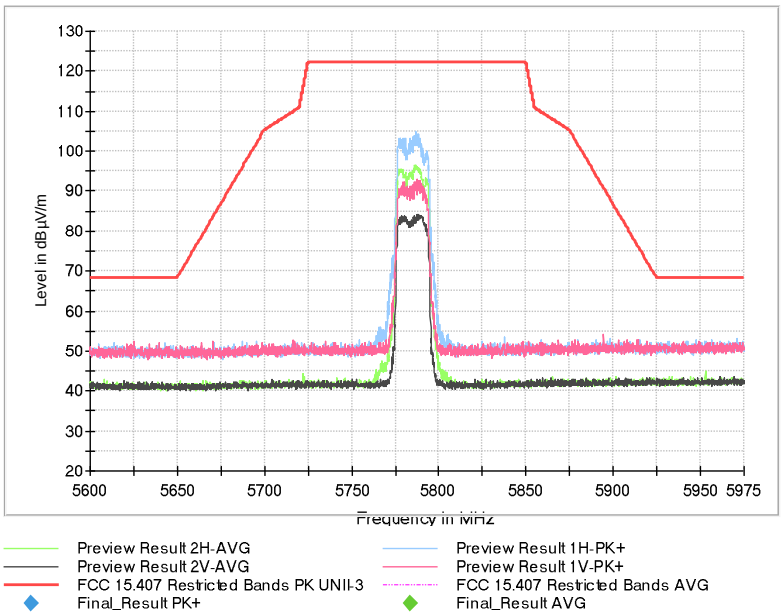


- **MIMO 802.11 n20:**

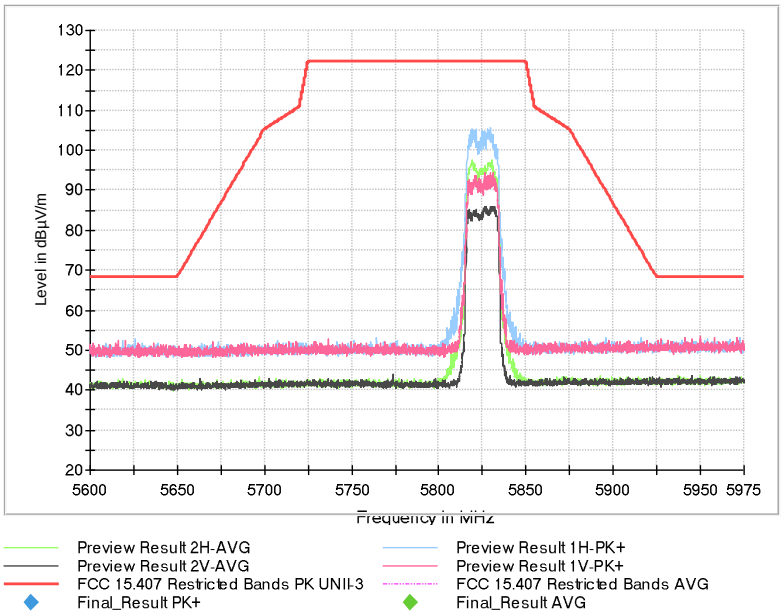
  - Low Channel 149 (5745 MHz):



  - Middle Channel 157 (5785 MHz):

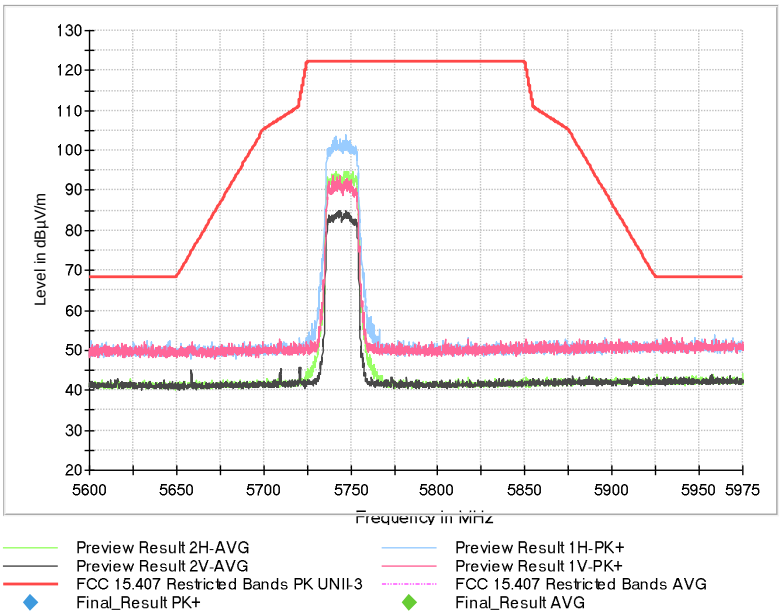


- High Channel 165 (5825 MHz):

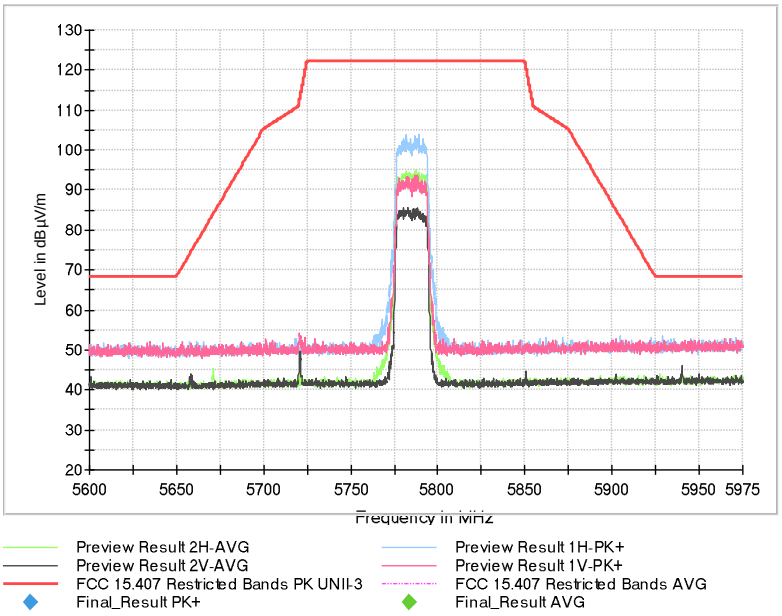


- **MIMO 802.11 ac20:**

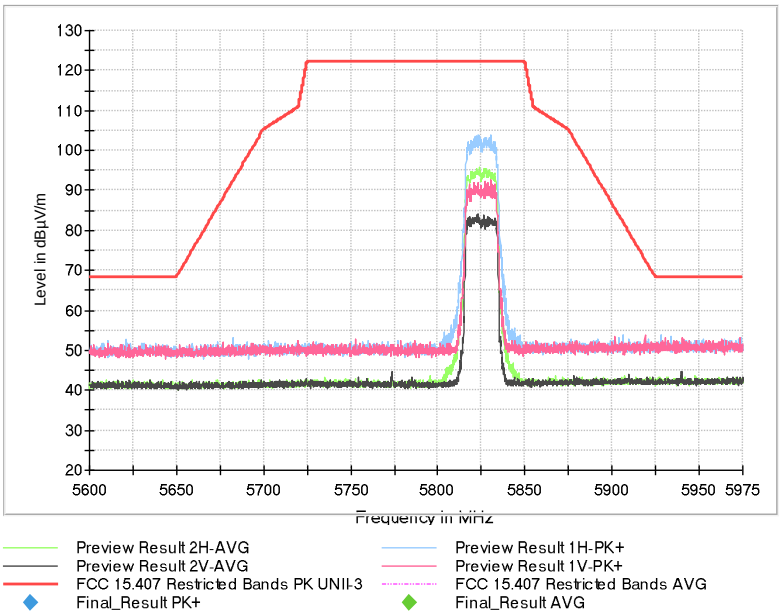
  - Low Channel 149 (5745 MHz):



  - Middle Channel 157 (5785 MHz):

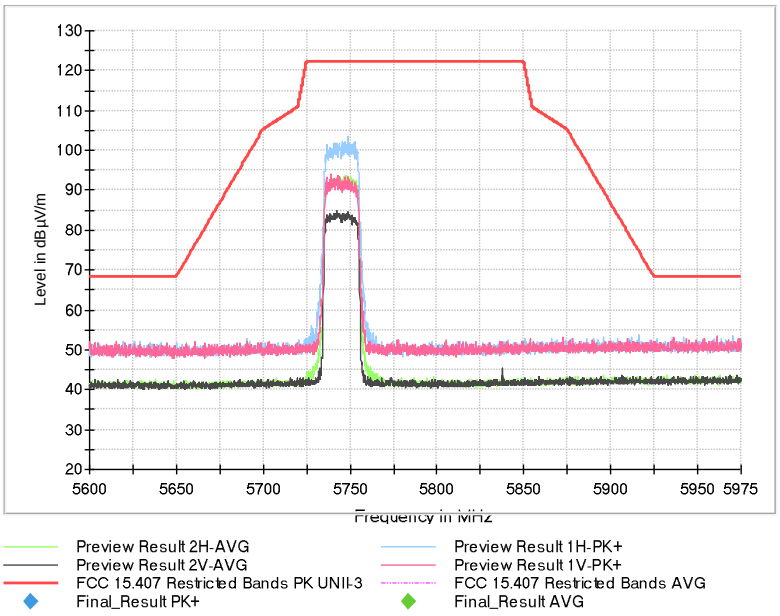


- High Channel 165 (5825 MHz):

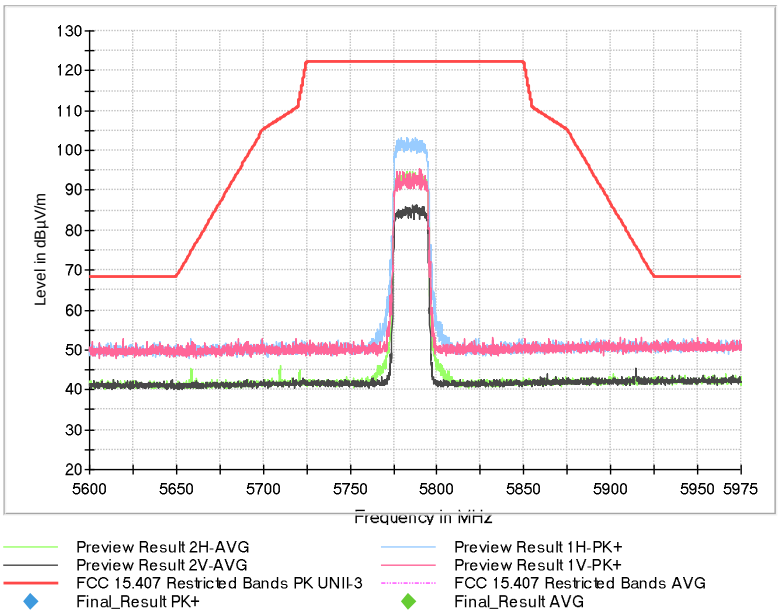


- **MIMO 802.11 ax20 (he20) – SU Full channel allocation:**

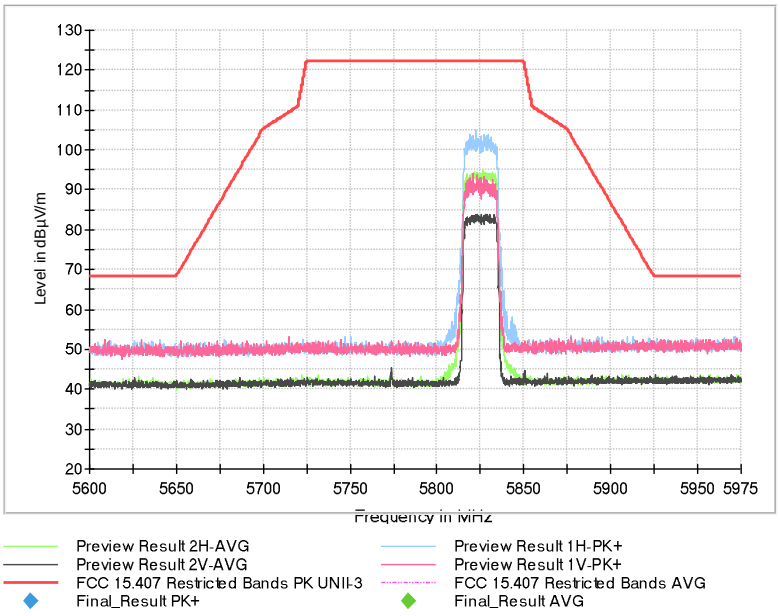
  - Low Channel 149 (5745 MHz):



  - Middle Channel 157 (5785 MHz):

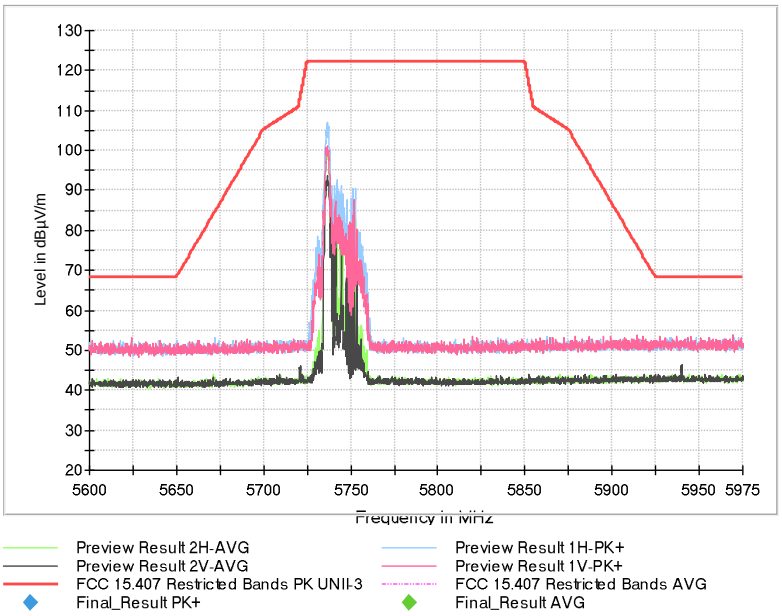


- High Channel 165 (5825 MHz):

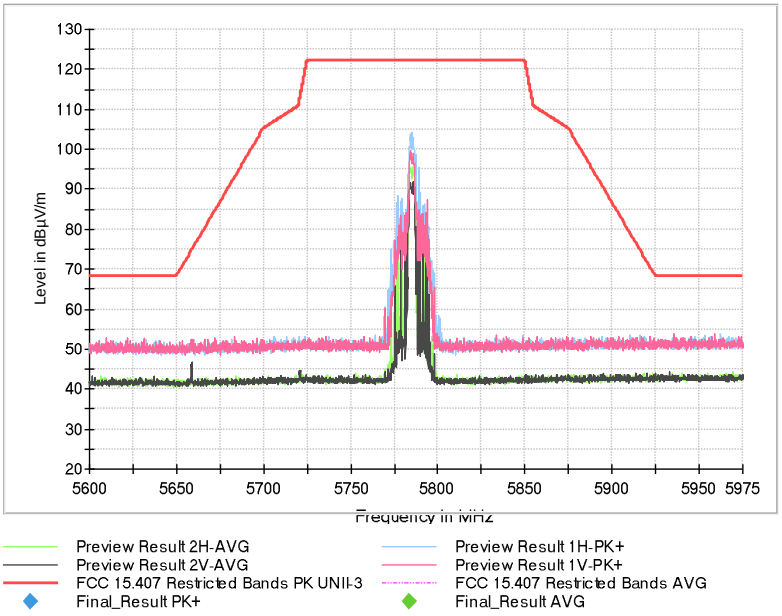


- **MIMO 802.11 ax20 (he20) – RU Subcarrier allocation (RU26):**

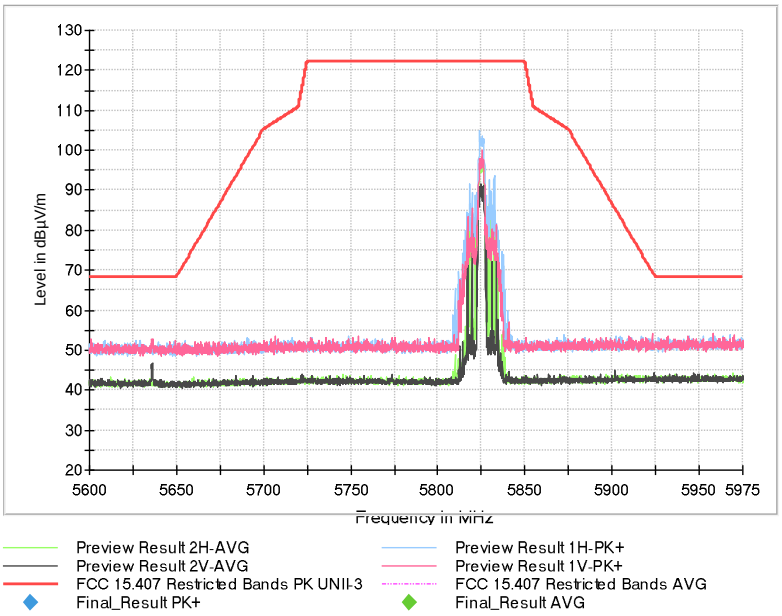
  - Low Channel 149 (5745 MHz) / RU26 Offset 0:



  - Middle Channel 157 (5785 MHz) / RU26 Offset 4:

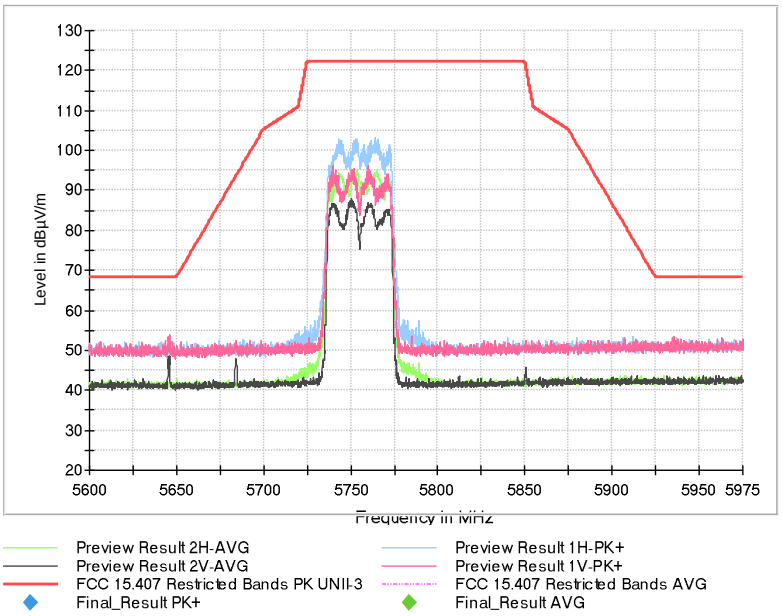


- High Channel 165 (5825 MHz) / RU26 Offset 8:

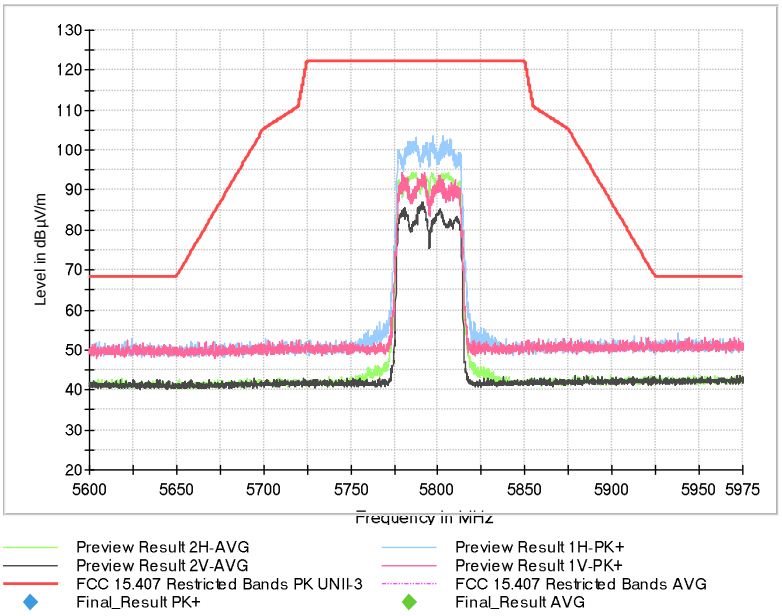


- **MIMO 802.11 n40:**

  - Low Channel 151 (5755 MHz):

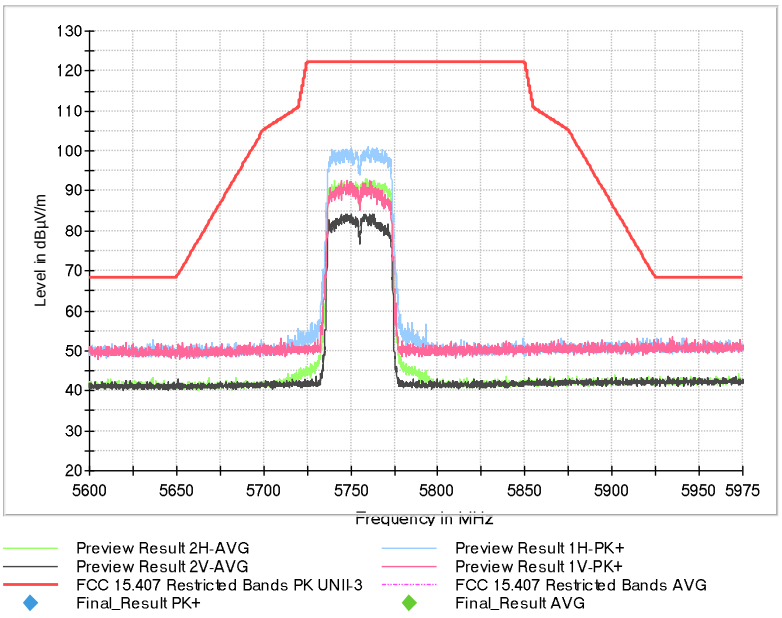


  - High Channel 159 (5795 MHz):

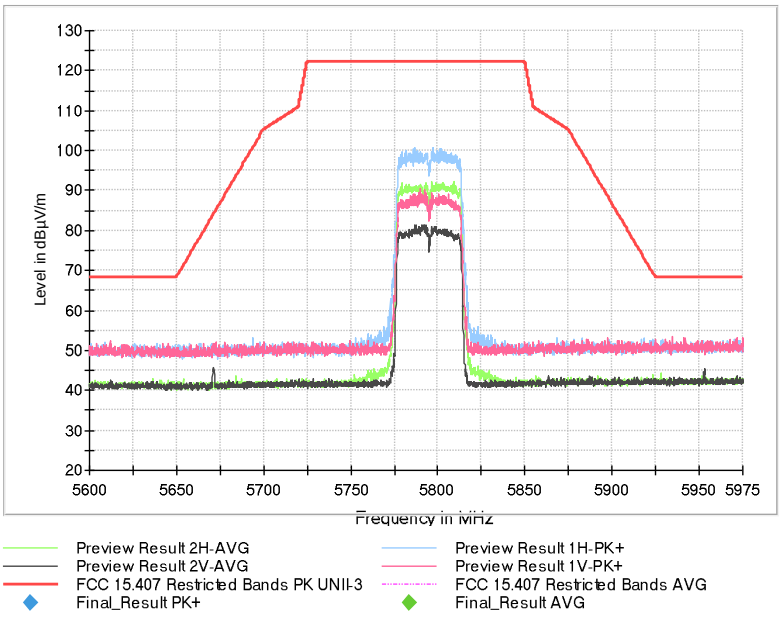


- **MIMO 802.11 ac40:**

  - - Low Channel 151 (5755 MHz):

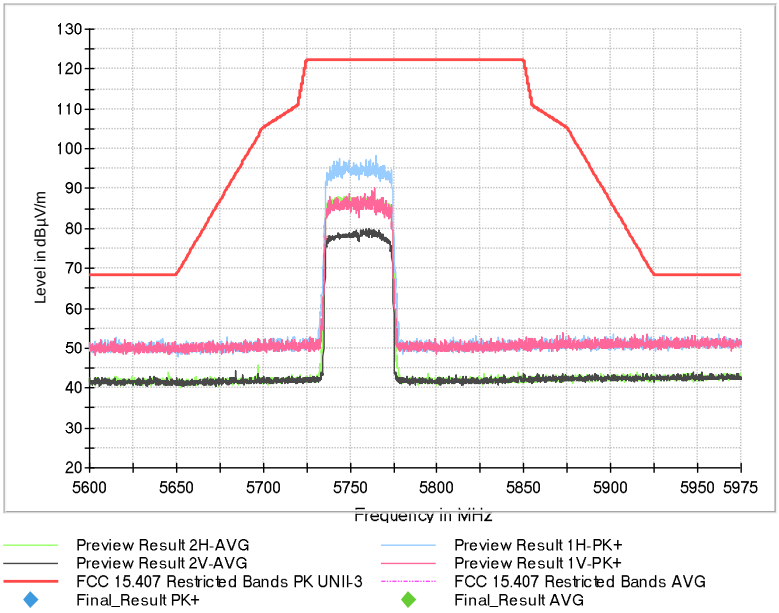


- High Channel 159 (5795 MHz):

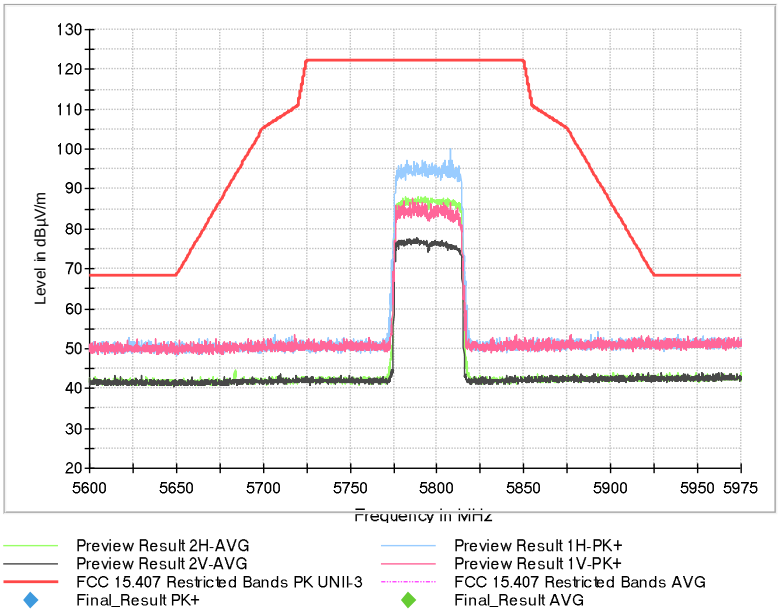


- **MIMO 802.11 ax40 (he40) – SU Full channel allocation:**

  - Low Channel 151 (5755 MHz):

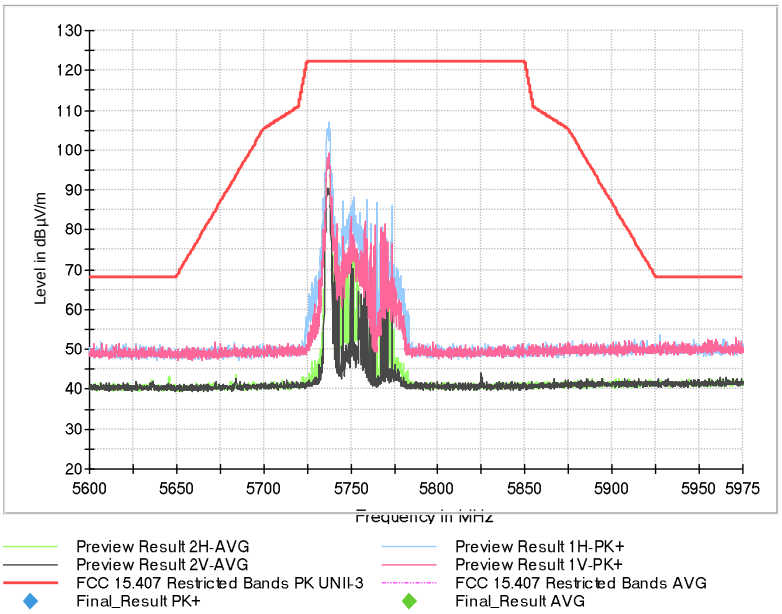


  - High Channel 159 (5795 MHz):

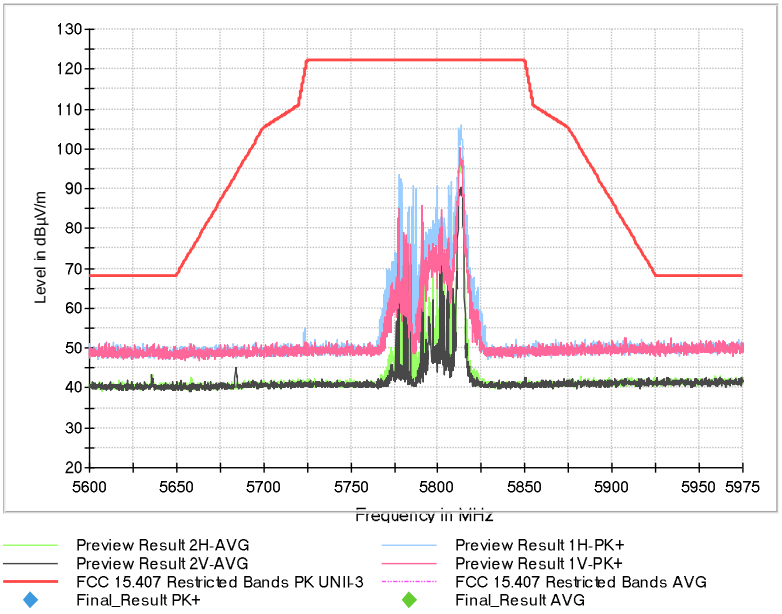


- **MIMO 802.11 ax40 (he40) – RU Subcarrier allocation (RU26):**

  - Low Channel 151 (5755 MHz) / RU26 Offset 0:

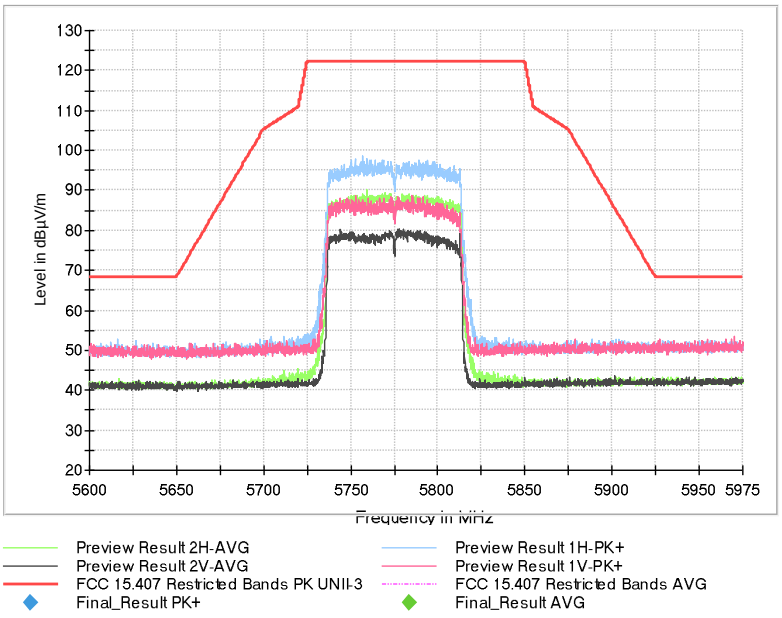


  - High Channel 159 (5795 MHz) / RU26 Offset 17:



- **MIMO 802.11 ac80:**

  - Single Channel 155 (5775 MHz):



- **MIMO 802.11 ax80 (he80) – SU Full channel allocation:**

  - Single Channel 155 (5775 MHz):