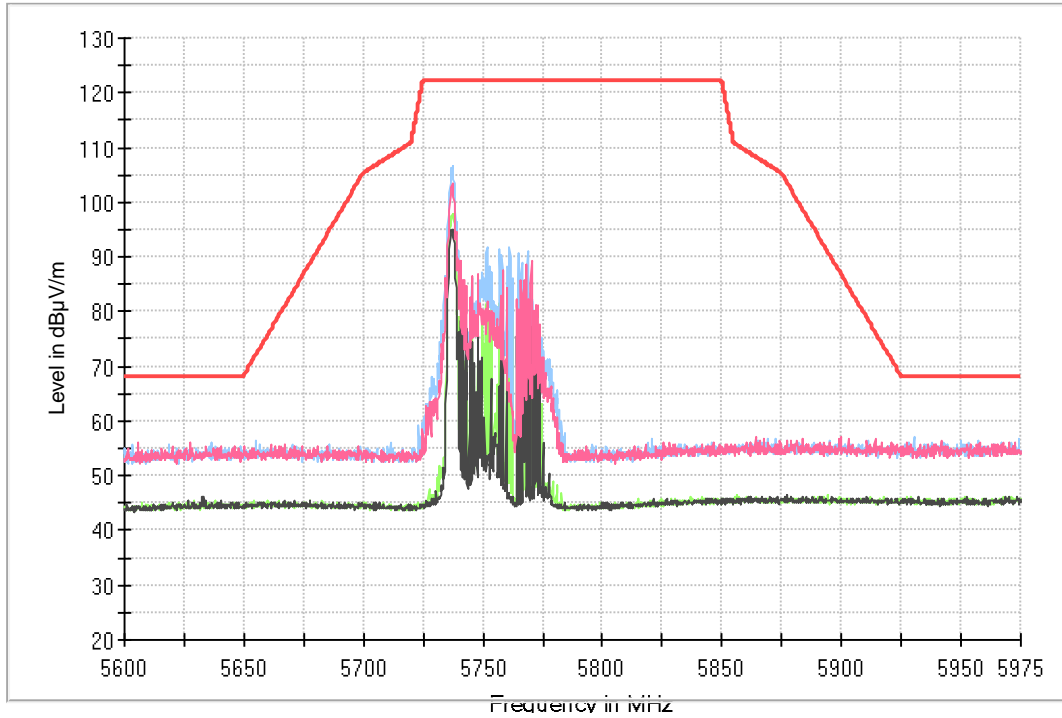


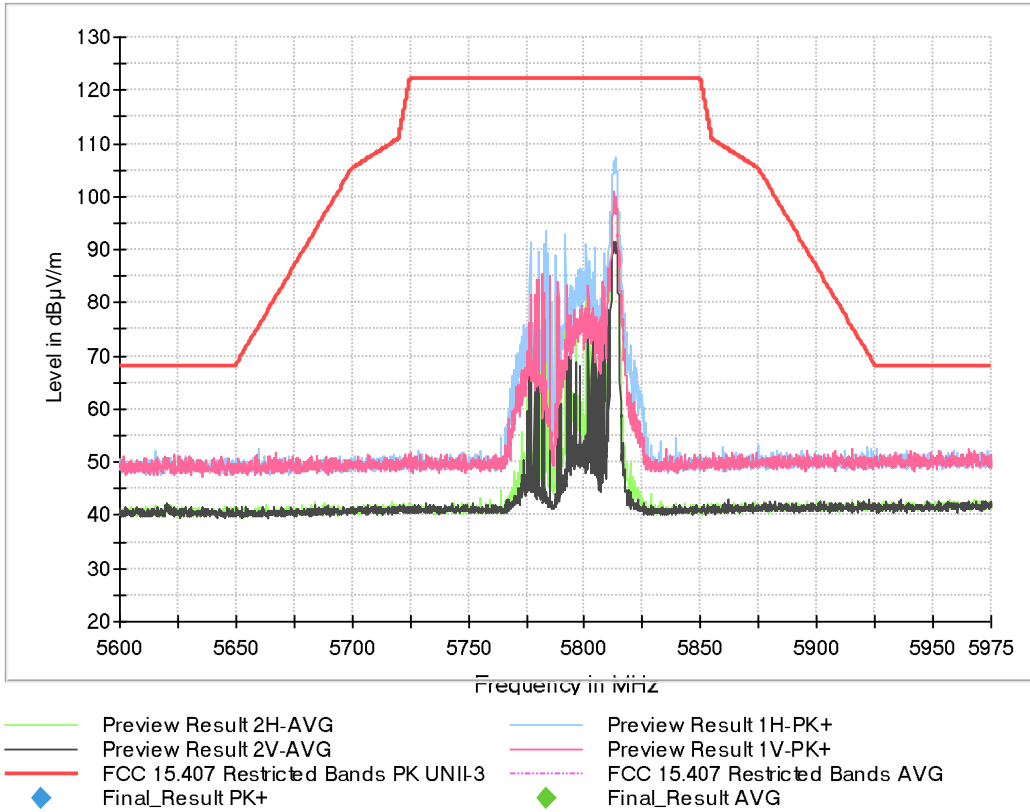
802.11 ax40 (HE40). Spurious emissions inside of the mask 5.65-5.925 GHz:

- **Low Channel 151 (5745 MHz) - RU 26 offset 0:**



- | | |
|---------------------------------------|---------------------------------|
| Preview Result 2H-AVG | Preview Result 1H-PK+ |
| Preview Result 2V-AVG | Preview Result 1V-PK+ |
| FCC 15.407 Restricted Bands PK UNII-3 | FCC 15.407 Restricted Bands AVG |
| Final_Result PK+ | Final_Result AVG |

- High Channel 159 (5795 MHz) - RU 26 offset 17



MIMO Chain 0 + Chain 1:

- Preliminary tests determined the next worst case:

Worst-case: 802.11 n20 (HT20).

Frequency range 30 MHz - 1 GHz:

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

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

| Spurious frequency (MHz) | Emission Level (dBµV/m) | Polarization | Detector |
|--------------------------|-------------------------|--------------|------------|
| 875.0215 | 34.35 | H | Quasi Peak |

Measurement Uncertainty (dB) $\leq \pm 5.1$

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.

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

| Spurious frequency (MHz) | Emission Level (dBµV/m) | Polarization | Detector |
|--------------------------|-------------------------|--------------|----------|
| 1375.180 | 43.13 | V | Peak |
| 1500.250 | 39.88 | H | Peak |
| 1687.000 | 41.74 | H | Peak |

- MIDDLE CHANNEL. Spurious frequencies detected at less than 20 dB below the limit:

| Spurious frequency (MHz) | Emission Level (dBµV/m) | Polarization | Detector |
|--------------------------|-------------------------|--------------|----------|
| 1375.370 | 43.88 | V | Peak |
| 1687.370 | 42.15 | H | Peak |

- HIGH CHANNEL. Spurious frequencies detected at less than 20 dB below the limit:

| Spurious frequency (MHz) | Emission Level (dBµV/m) | Polarization | Detector |
|--------------------------|-------------------------|--------------|----------|
| 1375.180 | 42.66 | V | Peak |
| 1687.370 | 41.23 | H | Peak |

Measurement uncertainty (dB) $\leq \pm 4.6$ for $f \geq 1$ GHz up to 17 GHz
 $\leq \pm 4.89$ for $f \geq 17$ GHz up to 26.5 GHz
 $\leq \pm 5.14$ for $f \geq 26.5$ GHz up to 40 GHz

Verdict: PASS

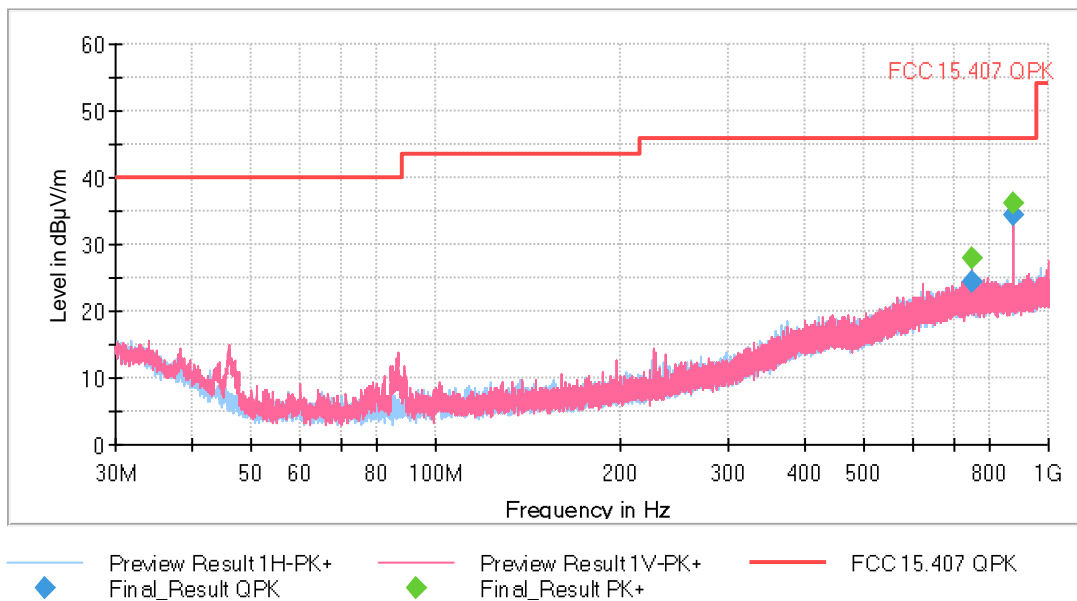
MIMO:

The setting for each range of frequency is indicated in the following tables:

| Subrange | Step Size | Detectors | Bandwidth | Sweep Time | Preamp |
|--|------------|-----------|-----------|------------|--------|
| Receiver: [ESW44] 30 MHz - 1 GHz | 30,312 kHz | PK+ | 100 kHz | 1 s | 30 dB |
| Receiver: [ESW44] 1 GHz – 7 GHz | 187.5 kHz | PK+ ; AVG | 1 MHz | 1 s | 0 dB |
| Receiver: [ESW44] 7 GHz - 17 GHz | 312.5 kHz | PK+ ; AVG | 1 MHz | 1 s | 30 dB |
| Receiver: [ESW44] 17 GHz – 28.5 GHz | 383.3 kHz | PK+ ; AVG | 1 MHz | 0.3 s | 0 dB |
| Receiver: [ESW44] 28.5 GHz - 40 GHz | 383.3 kHz | PK+ ; AVG | 1 MHz | 0.3 s | 0 dB |

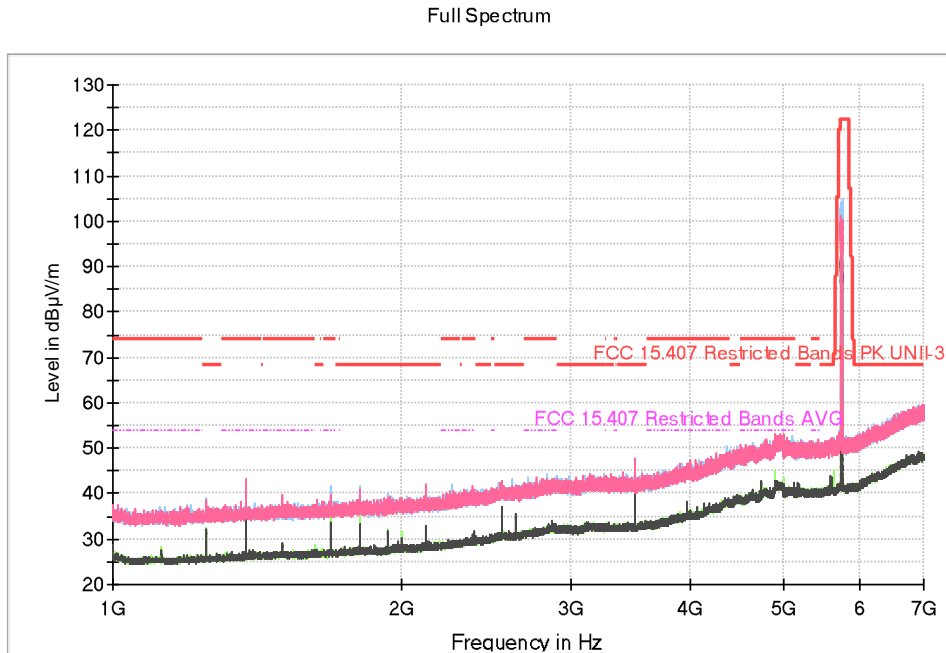
FREQUENCY RANGE 30 MHz - 1 GHz:

This plot is valid for all the Channels.



FREQUENCY RANGE 1 - 7 GHz (MIMO worst-case):

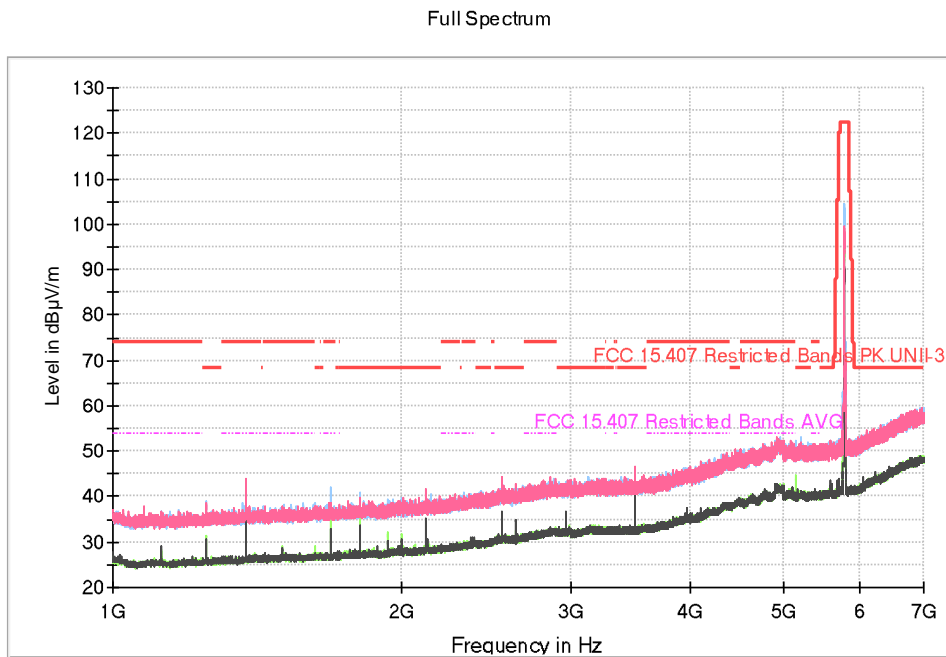
- Low Channel:



- Preview Result 2H-AVG
- Preview Result 2V-AVG
- FCC 15.407 Restricted Bands PK UNII-3
- ◆ Final_Result PK+
- Preview Result 1H-PK+
- Preview Result 1V-PK+
- FCC 15.407 Restricted Bands AVG
- ◆ Final_Result AVG

Note: The peak shown in the plot above the limit is the carrier frequency.

- Middle Channel:

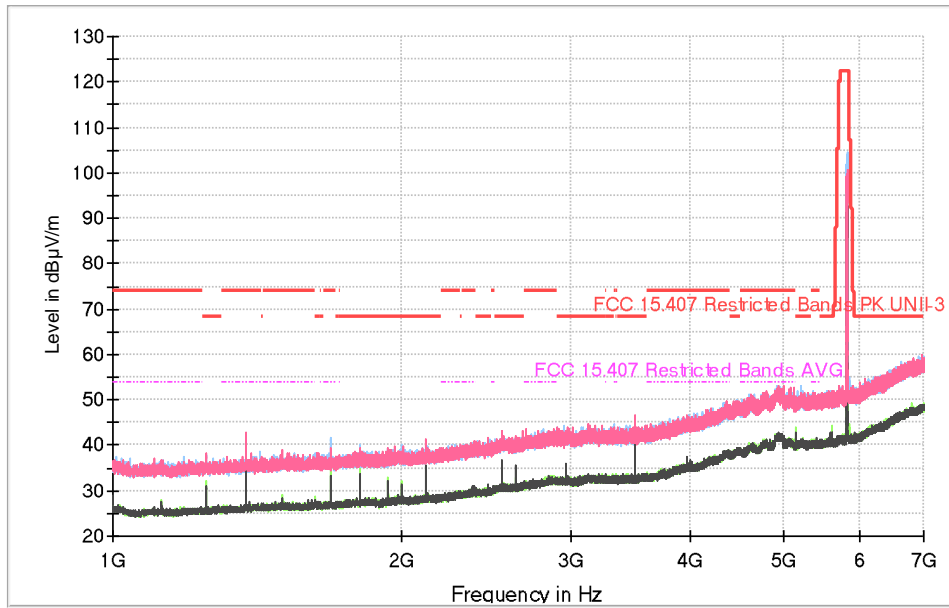


- Preview Result 2H-AVG
- Preview Result 2V-AVG
- FCC 15.407 Restricted Bands PK UNII-3
- ◆ Final_Result PK+
- Preview Result 1H-PK+
- Preview Result 1V-PK+
- FCC 15.407 Restricted Bands AVG
- ◆ Final_Result AVG

Note: The peak shown in the plot above the limit is the carrier frequency.

- High Channel:

Full Spectrum

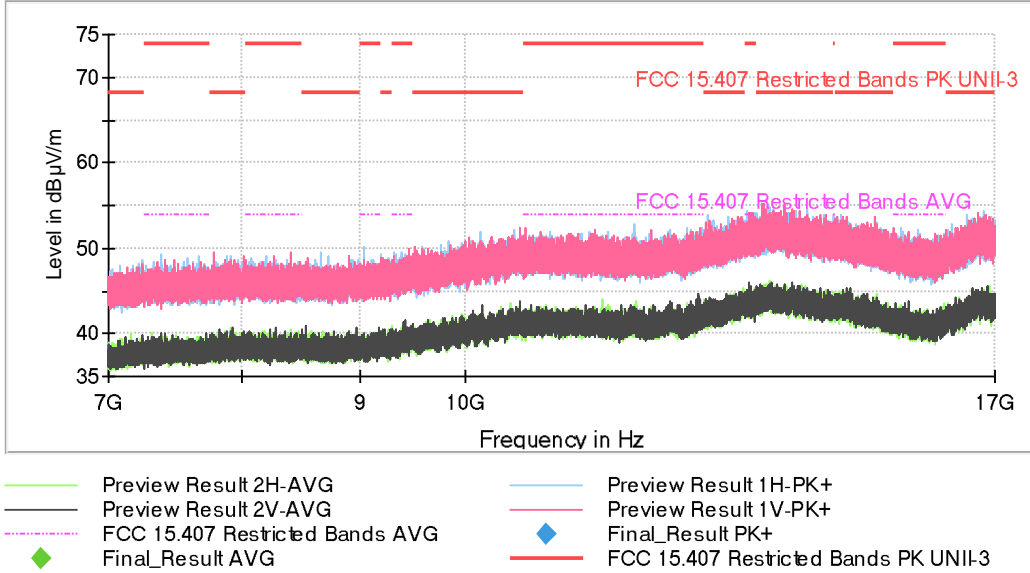


- Preview Result 2H-AVG
- Preview Result 2V-AVG
- FCC 15.407 Restricted Bands PK UNII-3
- ◆ Final_Result PK+
- Preview Result 1H-PK+
- Preview Result 1V-PK+
- FCC 15.407 Restricted Bands AVG
- ◆ Final_Result AVG

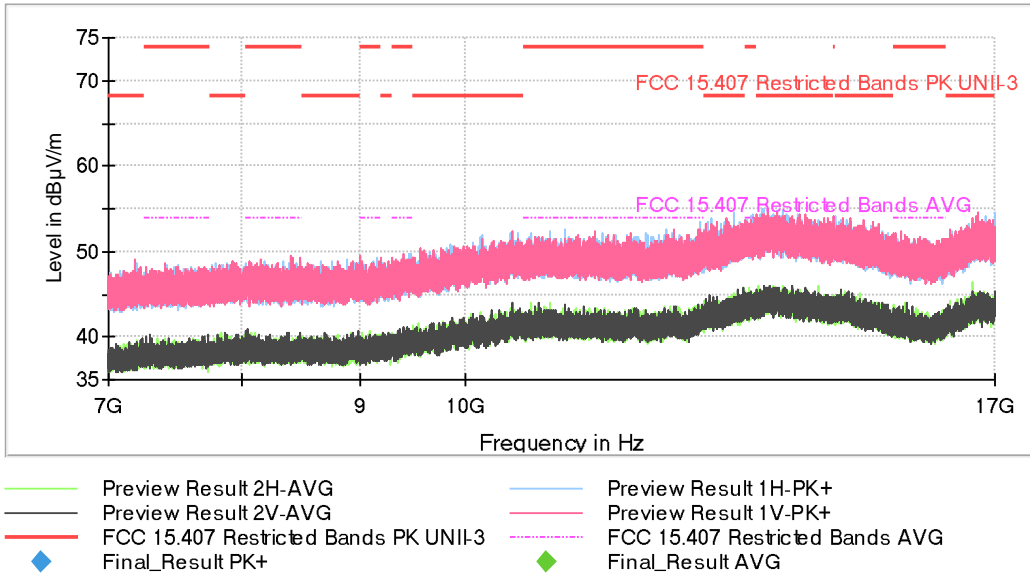
Note: The peak shown in the plot above the limit is the carrier frequency.

FREQUENCY RANGE 7 - 17 GHz (MIMO worst-case):

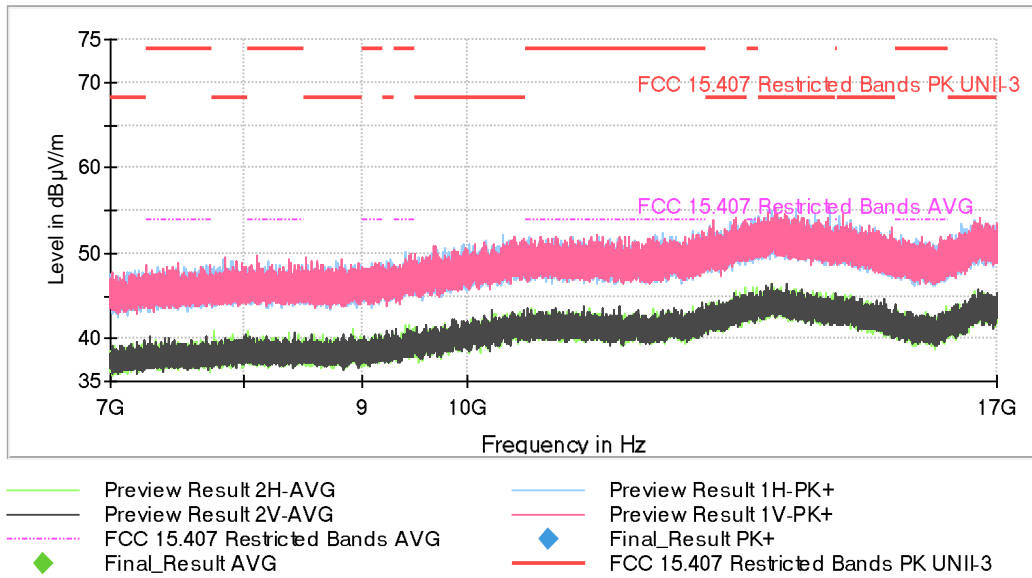
- Low Channel:



- Middle Channel:

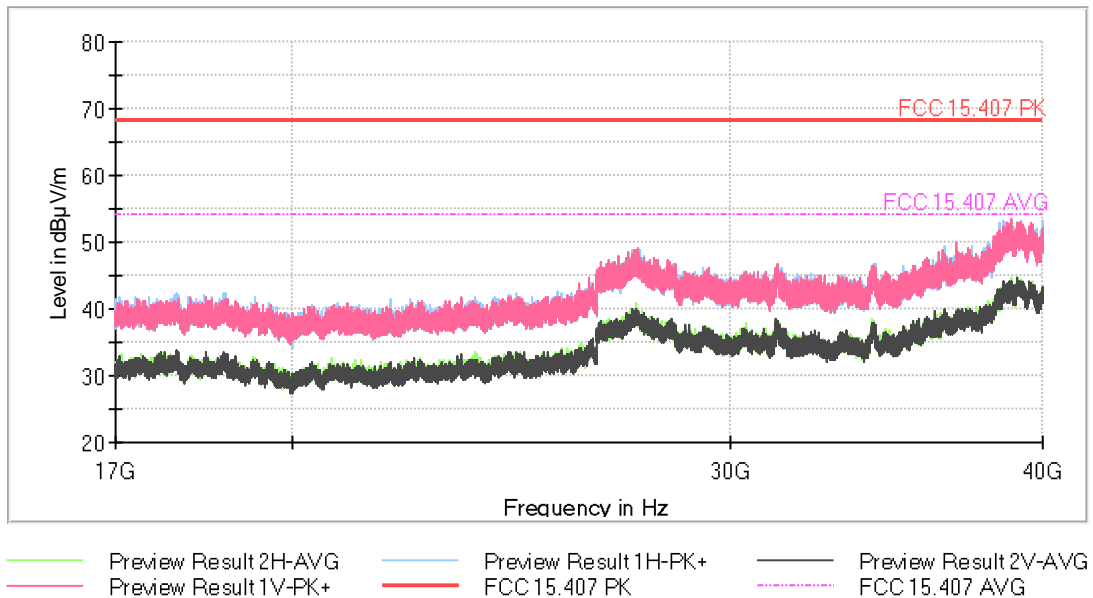


- High Channel:



FREQUENCY RANGE 17 - 40 GHz:

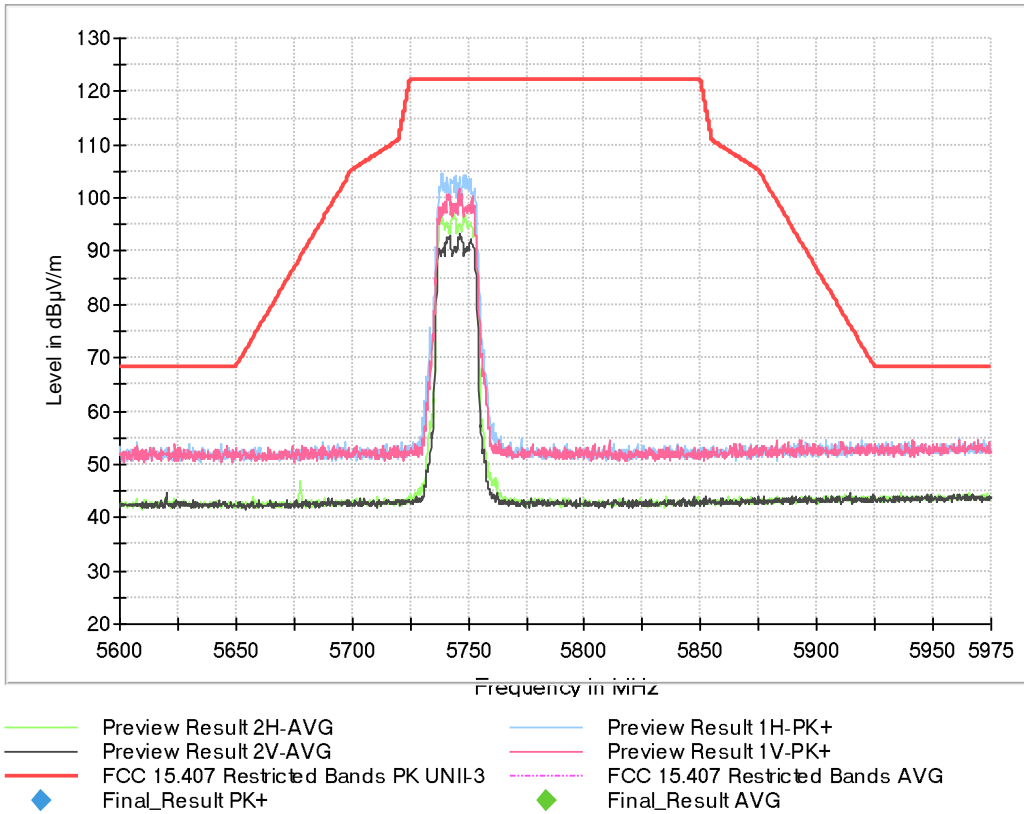
This plot is valid for all the Channels.



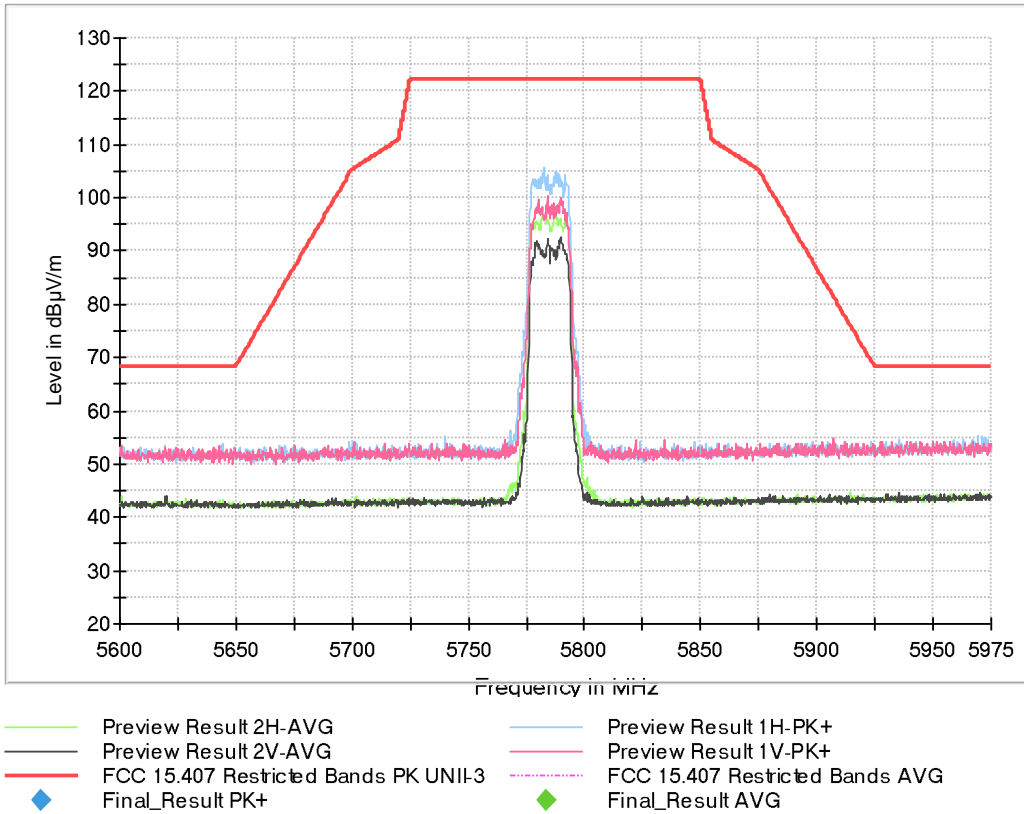
Attachments

802.11 a20. Spurious emissions inside of the mask 5.65-5.925 GHz:

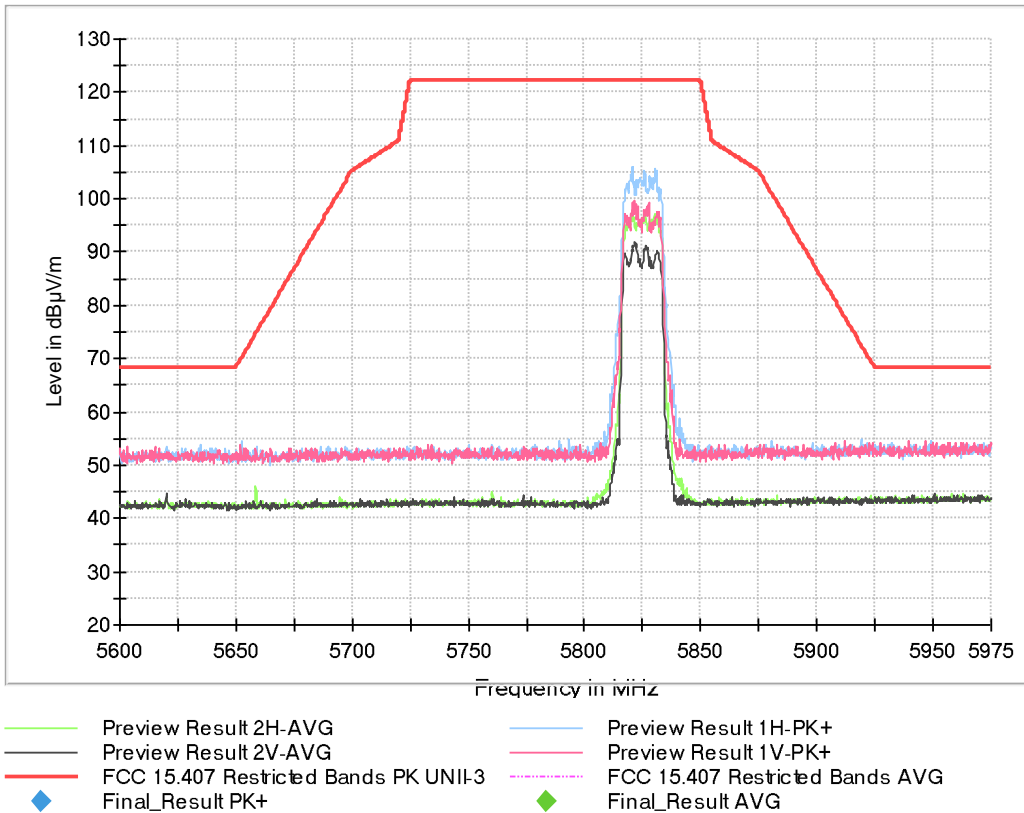
- **Low Channel 149 (5745 MHz)**



- Middle Channel 157 (5785 MHz)

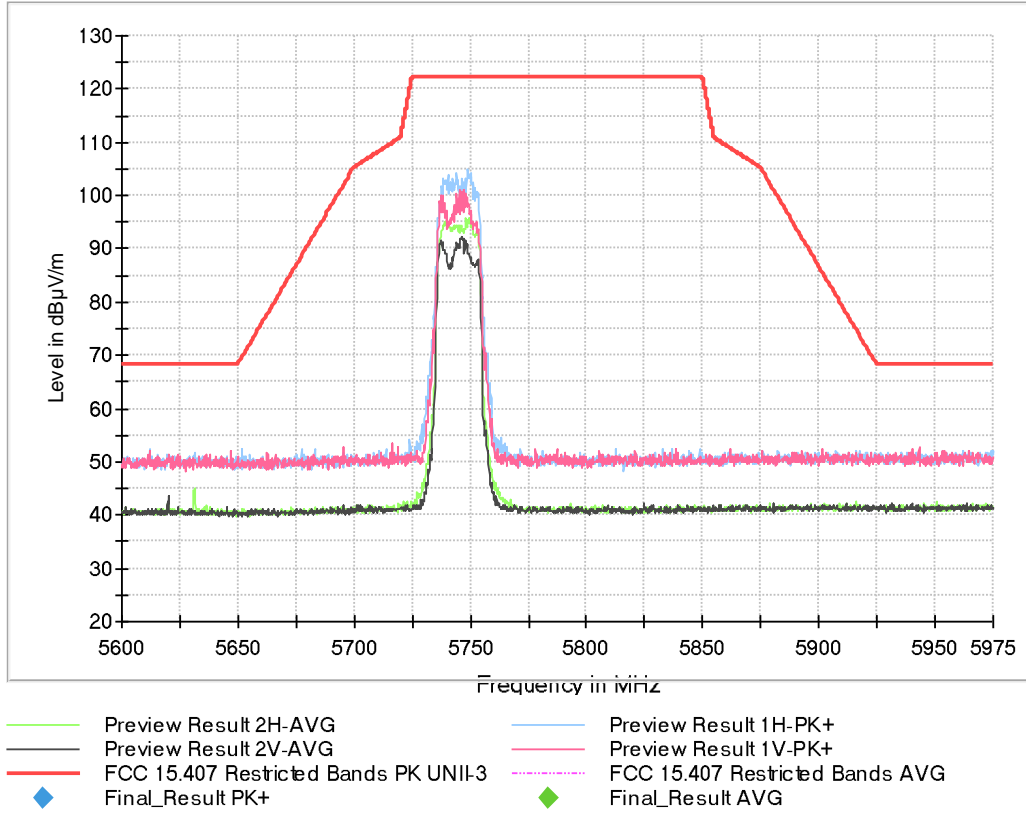


- High Channel 165 (5825 MHz)

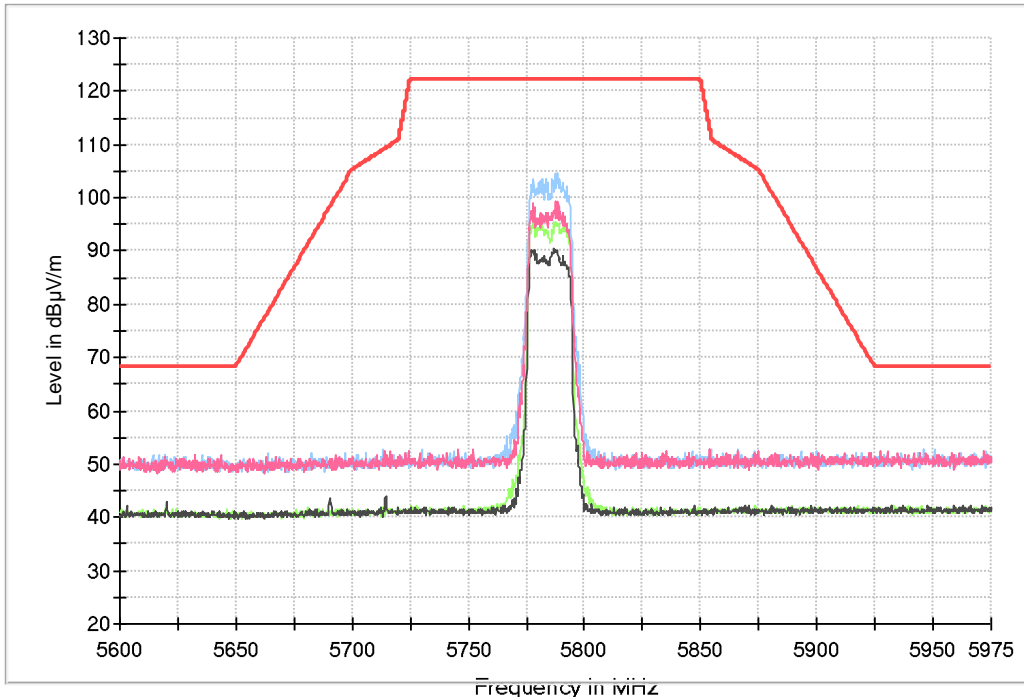


802.11 n20 (HT20). Spurious emissions inside the mask 5.65-5.925 GHz:

- Low Channel 149 (5745 MHz)

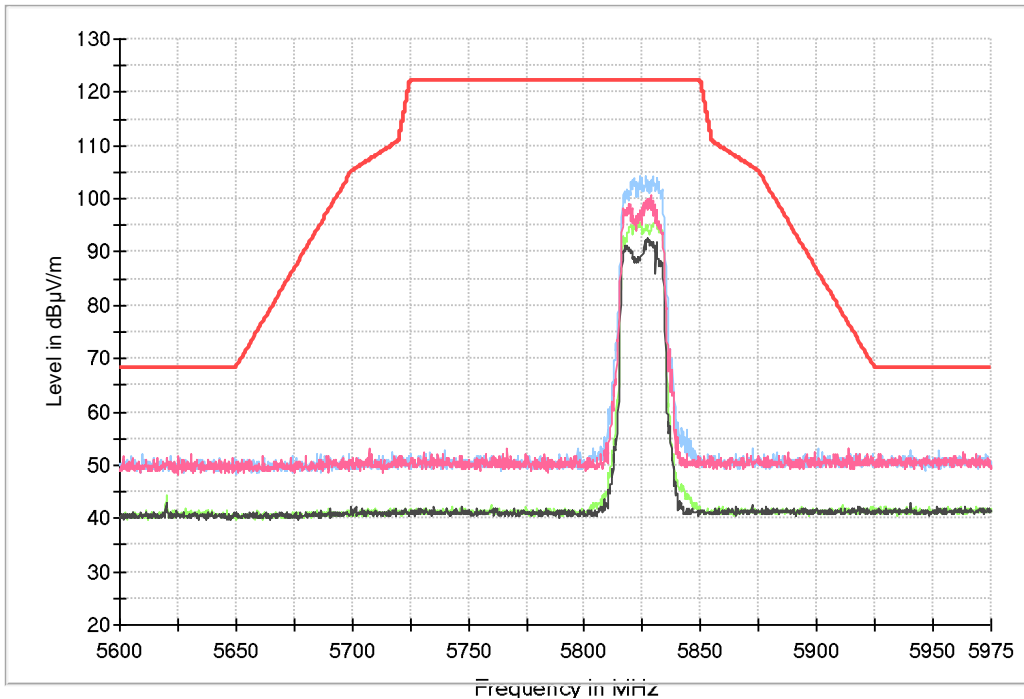


- Middle Channel 157 (5785 MHz)



- Preview Result 2H-AVG
- Preview Result 2V-AVG
- FCC 15.407 Restricted Bands PK UNII-3
- ◆ Final_Result PK+
- Preview Result 1H-PK+
- Preview Result 1V-PK+
- FCC 15.407 Restricted Bands AVG
- ◆ Final_Result AVG

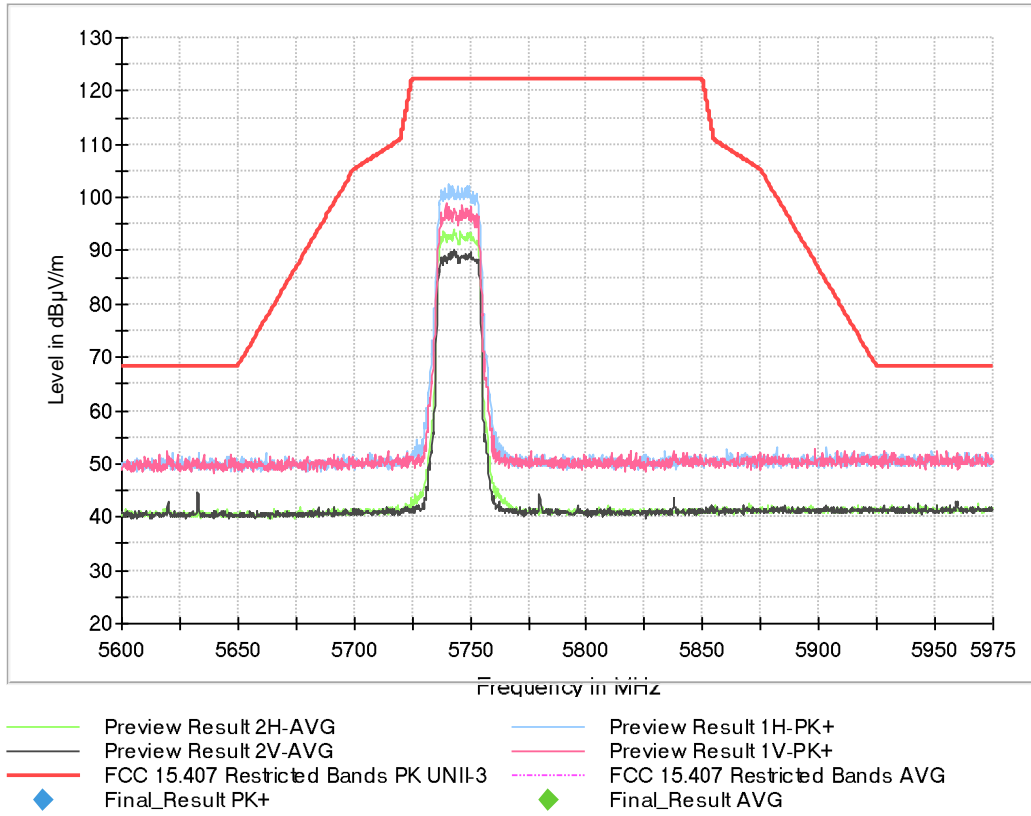
- High Channel 165 (5825 MHz)



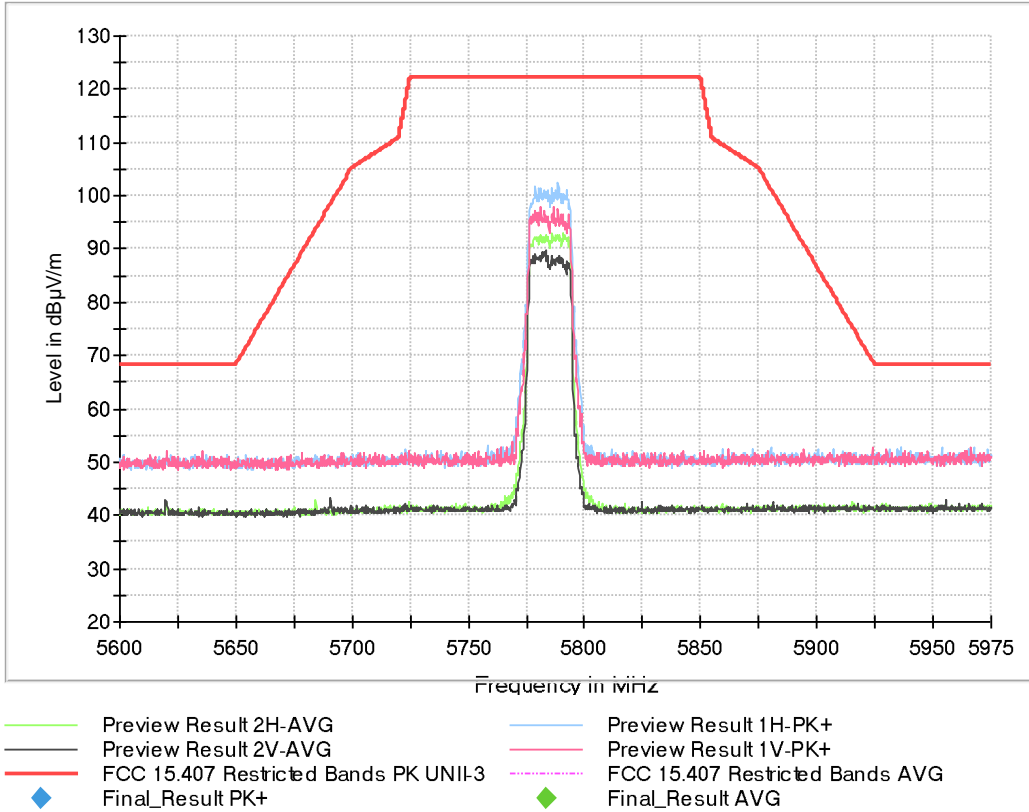
- Preview Result 2H-AVG
- Preview Result 2V-AVG
- FCC 15.407 Restricted Bands PK UNII-3
- ◆ Final_Result PK+
- Preview Result 1H-PK+
- Preview Result 1V-PK+
- FCC 15.407 Restricted Bands AVG
- ◆ Final_Result AVG

802.11 ac20 (VHT20). Spurious emissions inside of the mask 5.65-5.925 GHz:

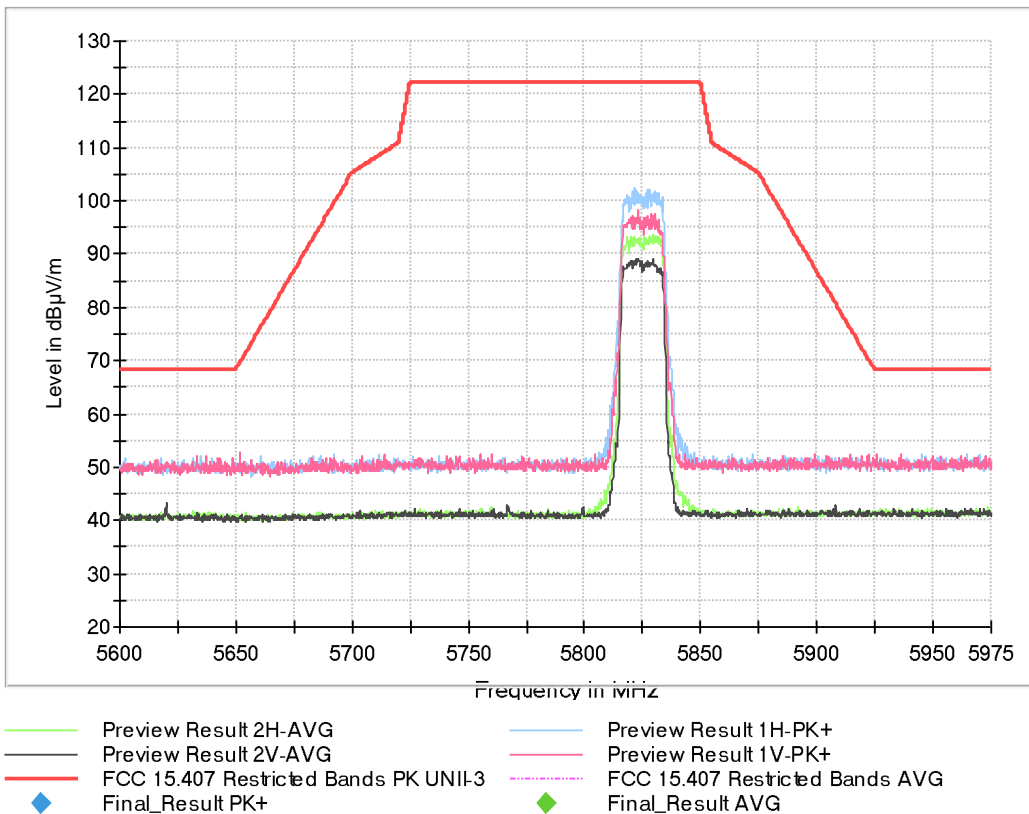
- Low Channel 149 (5745 MHz)



- Middle Channel 157 (5785 MHz)

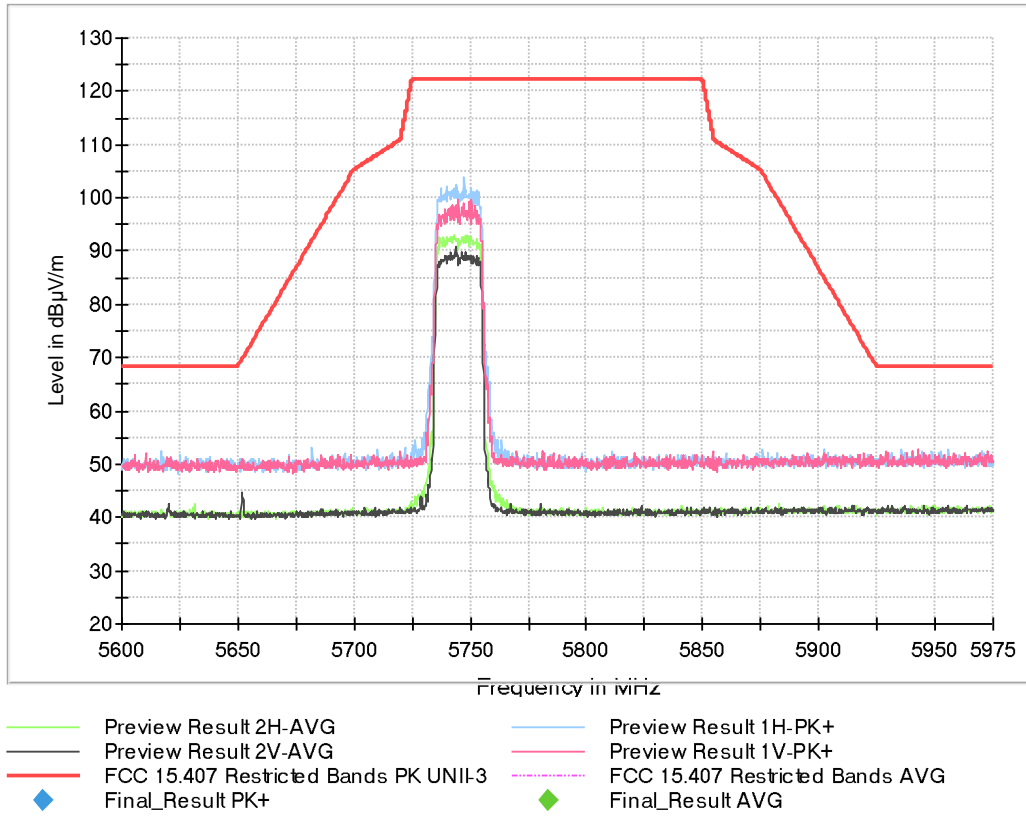


- High Channel 165 (5825 MHz)

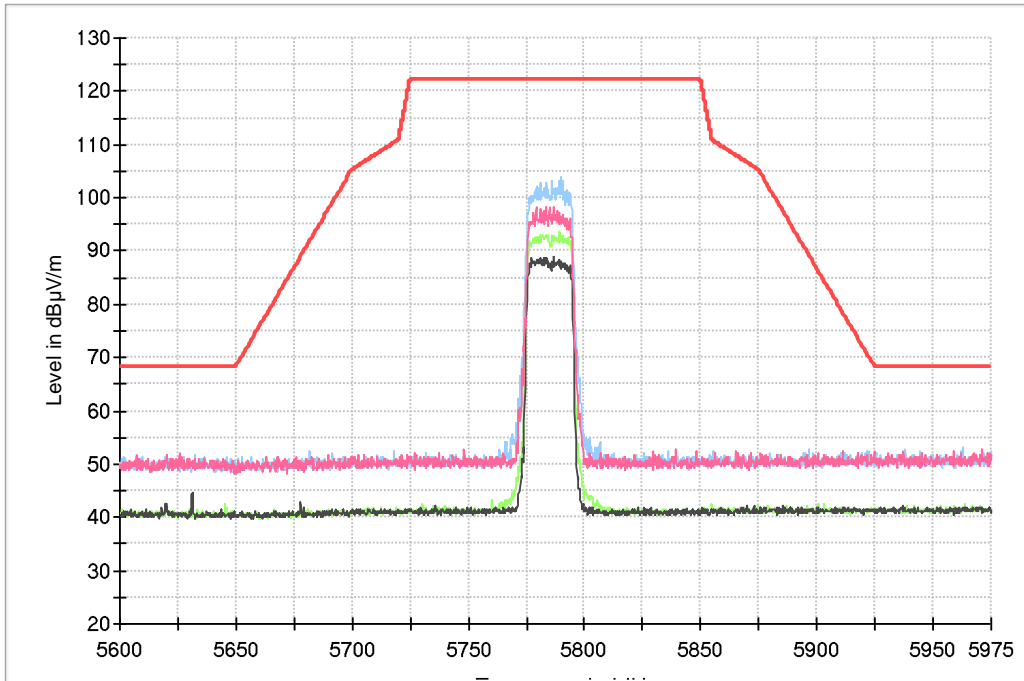


802.11 ax20 (HE20) - SU full-channel allocation. Spurious emissions inside of the mask 5.65-5.925 GHz:

- Low Channel 149 (5745 MHz)

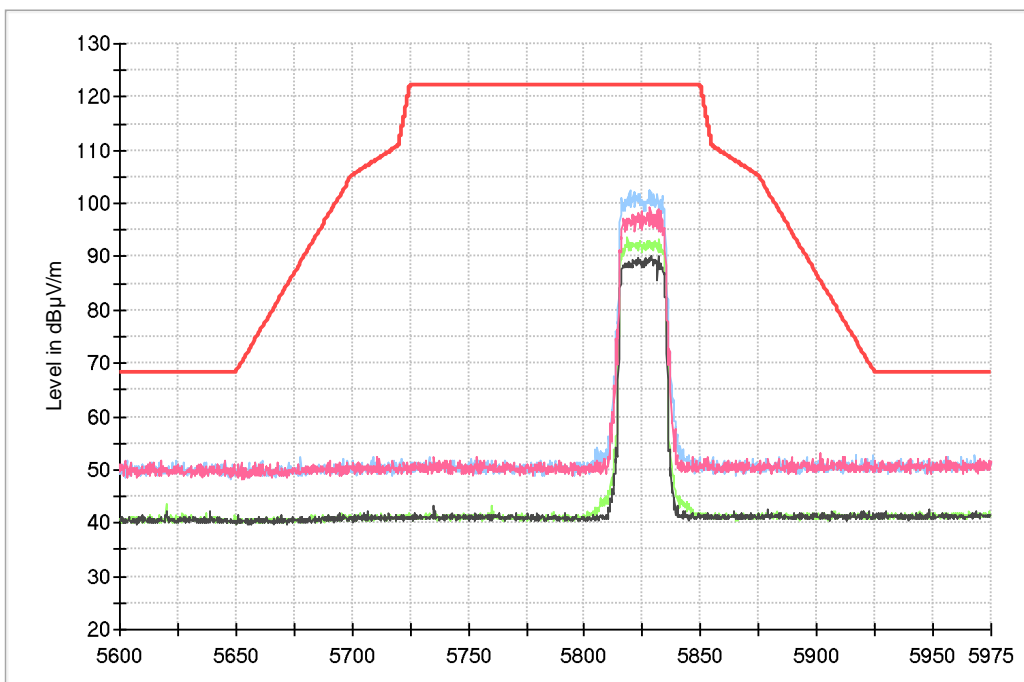


- Middle Channel 157 (5785 MHz)



- Preview Result 2H-AVG
- Preview Result 2V-AVG
- FCC 15.407 Restricted Bands PK UNII-3
- ◆ Final_Result PK+
- Preview Result 1H-PK+
- Preview Result 1V-PK+
- FCC 15.407 Restricted Bands AVG
- ◆ Final_Result AVG

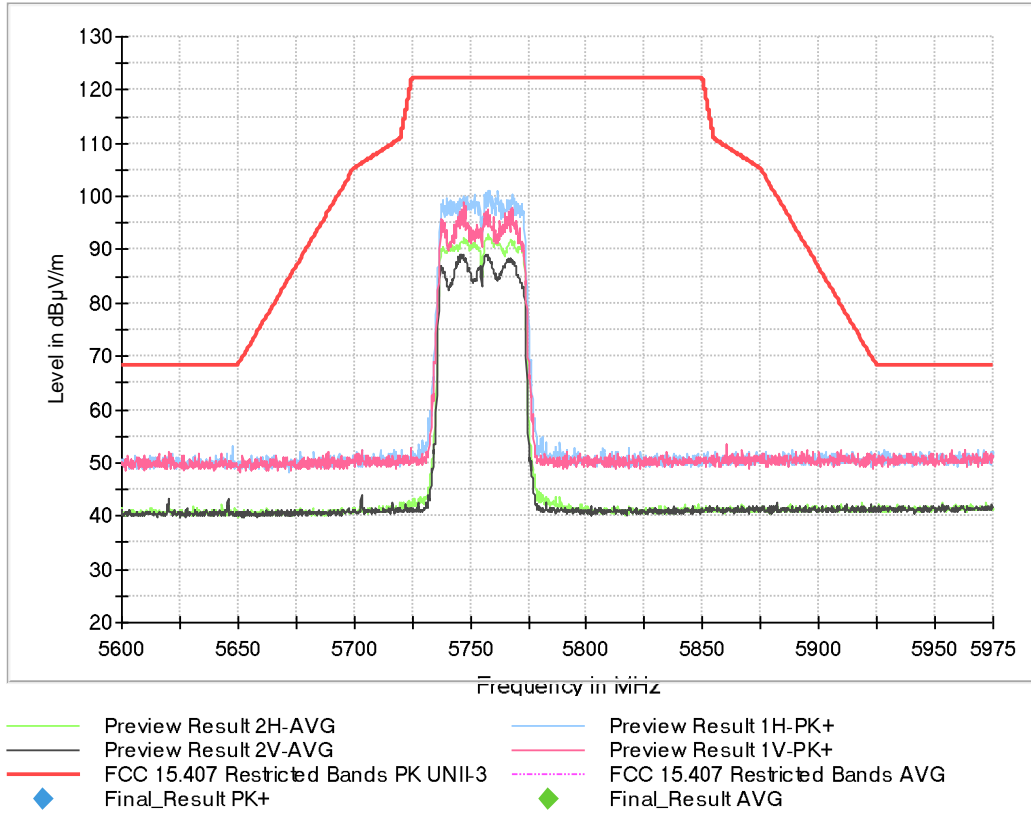
- High Channel 165 (5825 MHz)



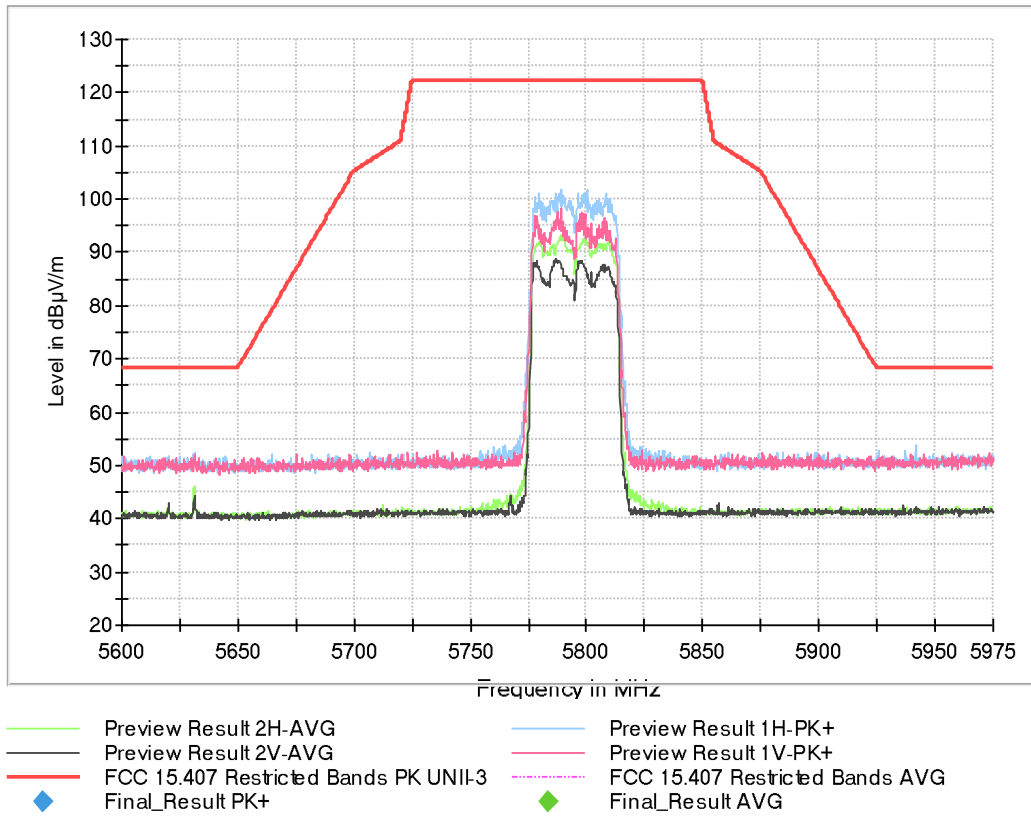
- Preview Result 2H-AVG
- Preview Result 2V-AVG
- FCC 15.407 Restricted Bands PK UNII-3
- ◆ Final_Result PK+
- Preview Result 1H-PK+
- Preview Result 1V-PK+
- FCC 15.407 Restricted Bands AVG
- ◆ Final_Result AVG

802.11 n40 (HT40). Spurious emissions inside the mask 5.65-5.925 GHz:

- Low Channel 151 (5755 MHz)

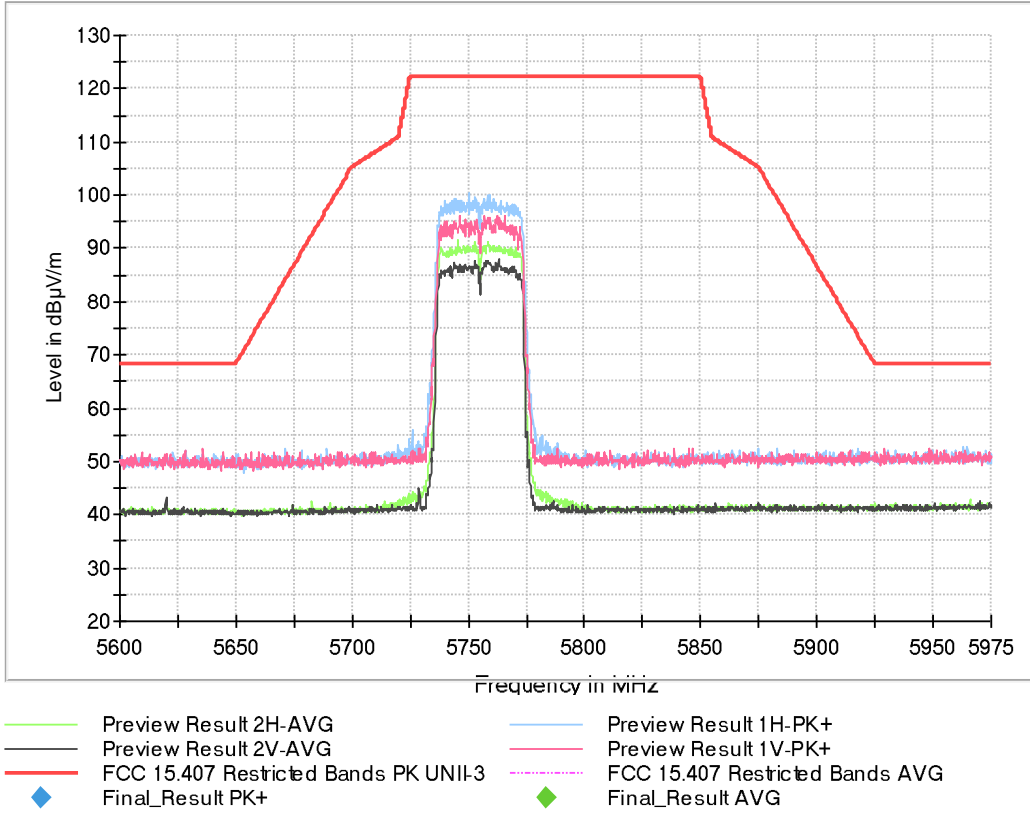


- High Channel 159 (5795 MHz)

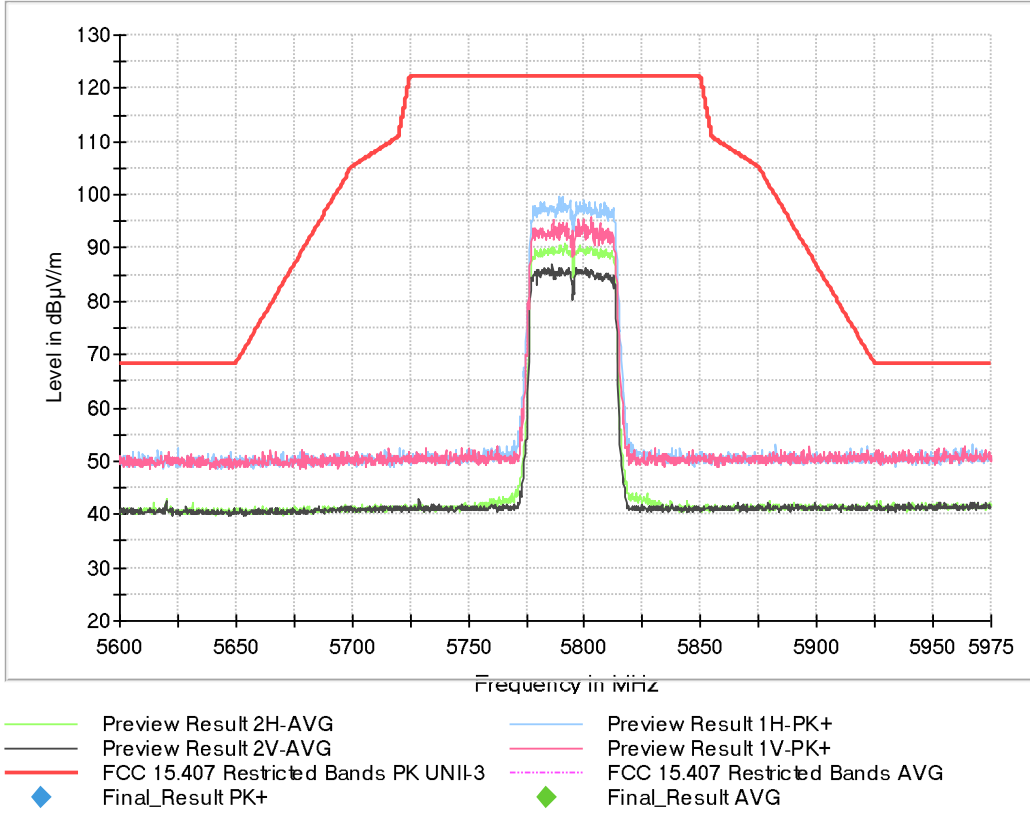


802.11 ac40 (VHT40). Spurious emissions inside the mask 5.65-5.925 GHz:

- Low Channel 151 (5755 MHz)

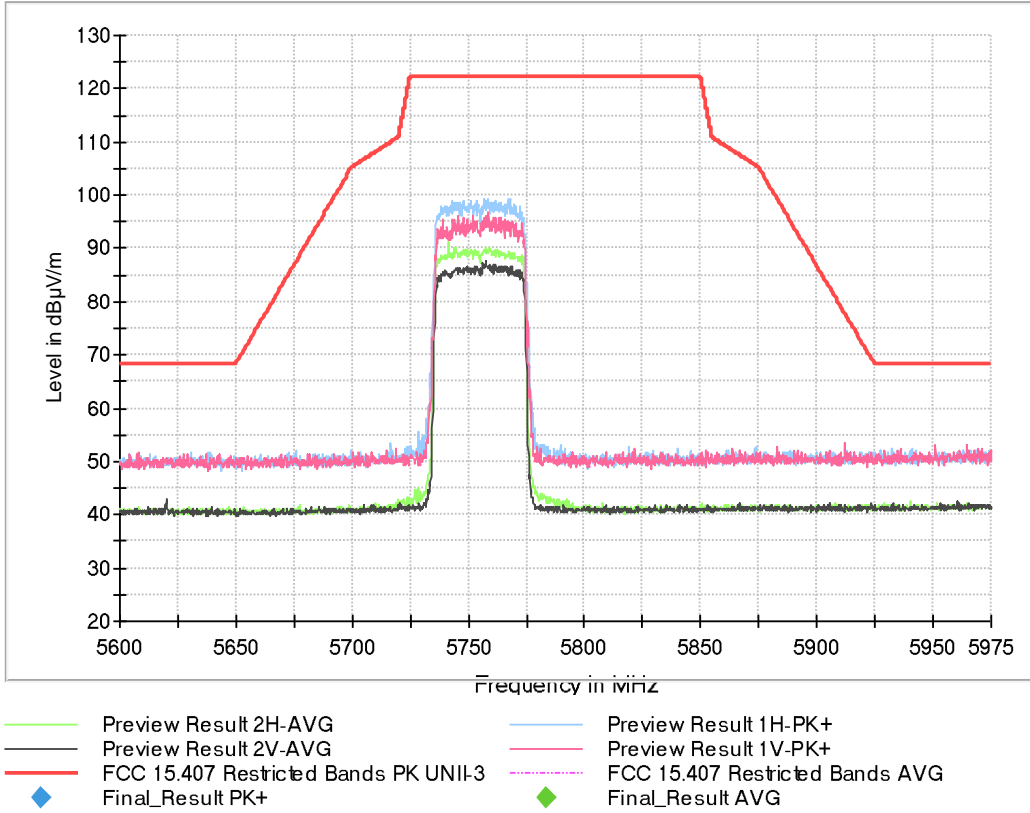


- High Channel 159 (5795 MHz)

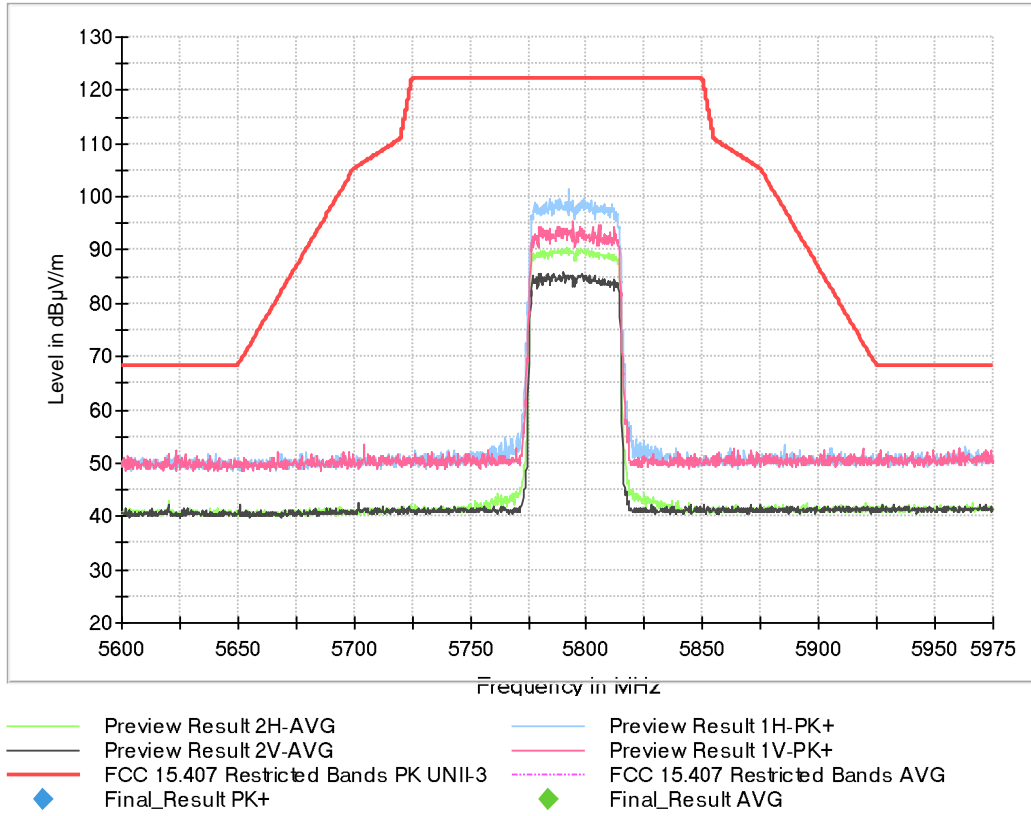


802.11 ax40 (HE40) - SU full-channel allocation. Spurious emissions inside of the mask 5.65-5.925 GHz:

- Low Channel 151 (5755 MHz)

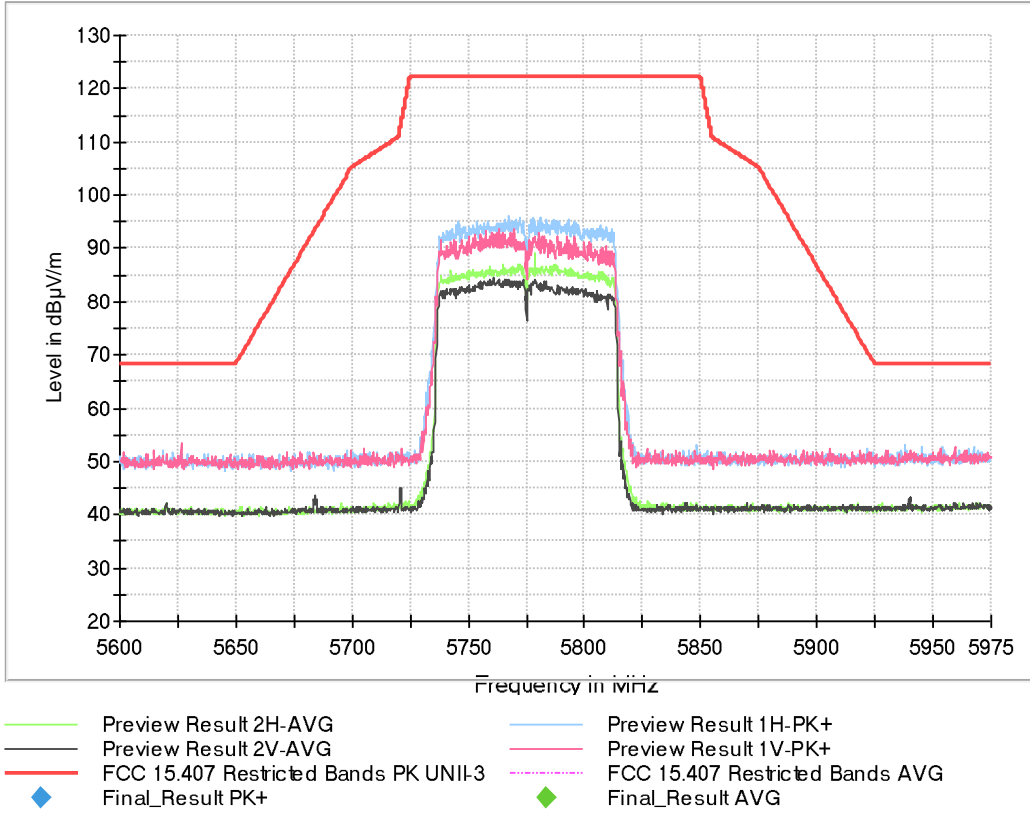


- High Channel 159 (5795 MHz)



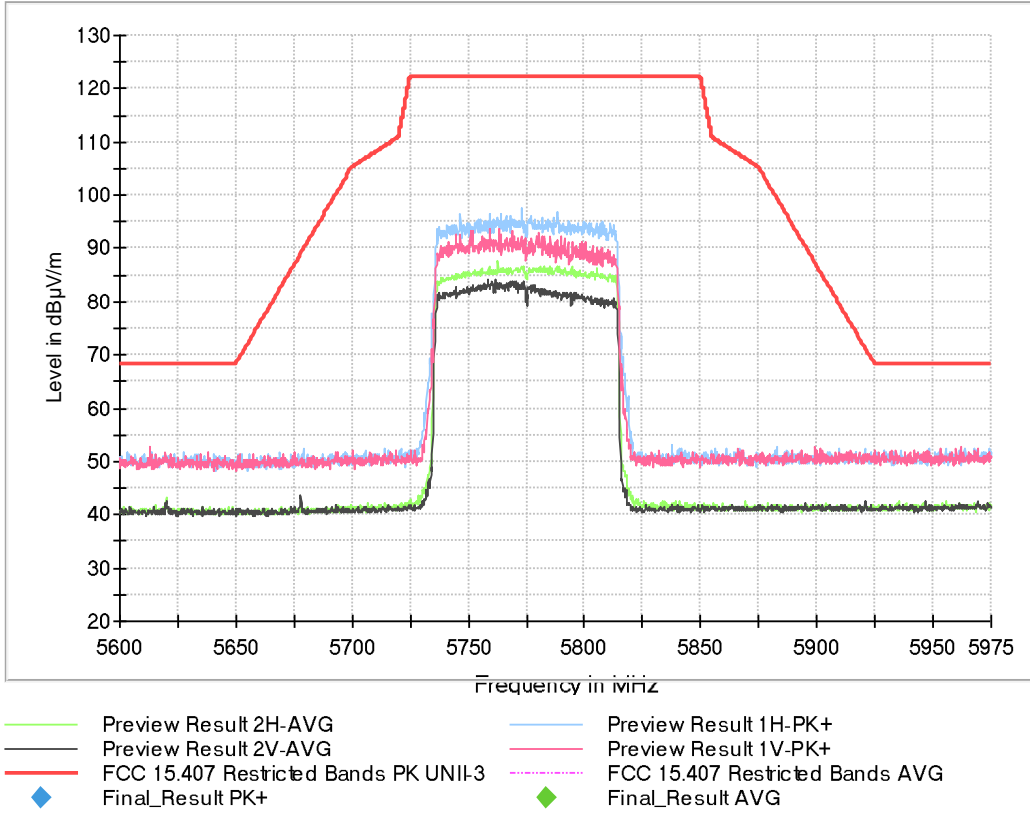
802.11 ac80 (VHT80). Spurious emissions inside the mask 5.65-5.925 GHz:

- Single Channel 155 (5775 MHz)



802.11 ax80 (HE80) SU full-channel allocation. Spurious emissions inside of the mask 5.65-5.925 GHz:

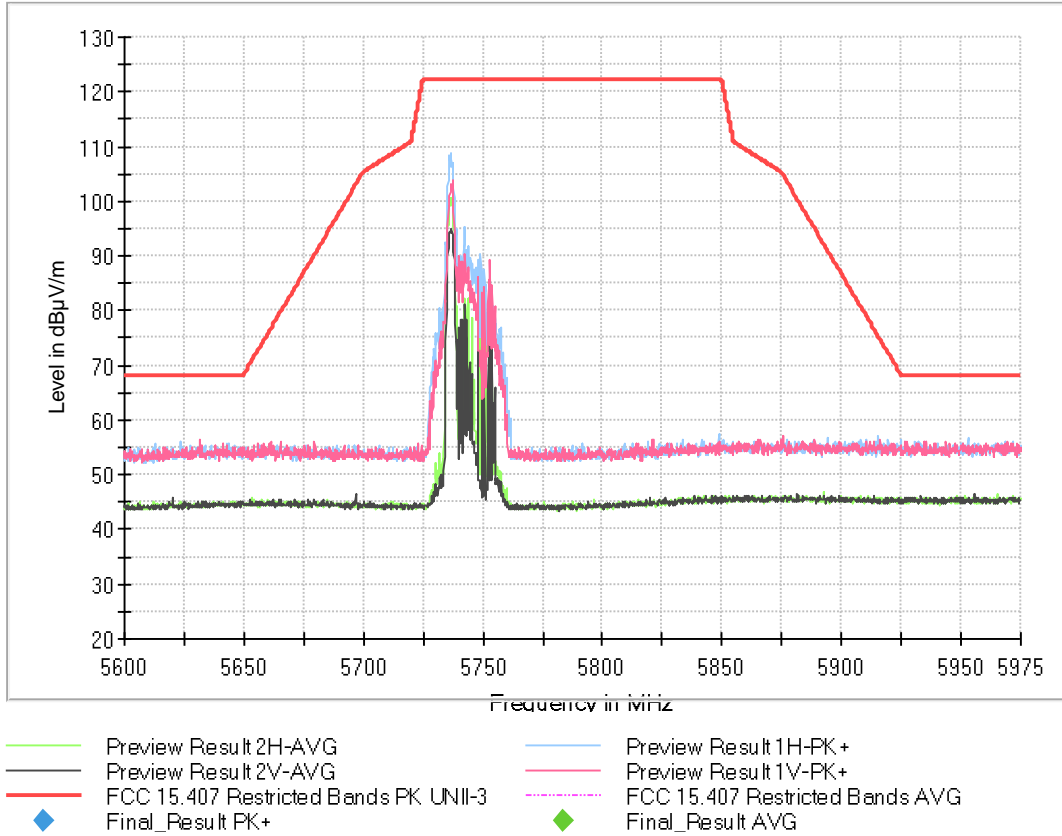
- Single Channel 155 (5775 MHz)



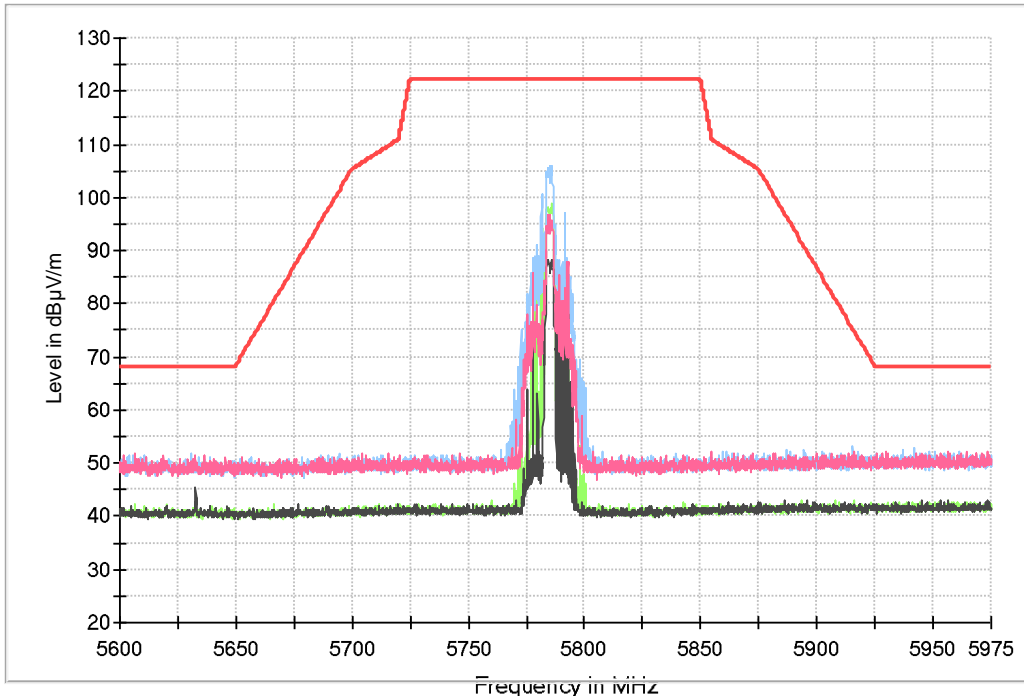
RU Subcarrier allocation (worst-case)

802.11 ax20 (HE20). Spurious emissions inside of the mask 5.65-5.925 GHz:

- **Low Channel 149 (5745 MHz) - RU 26 offset 0:**

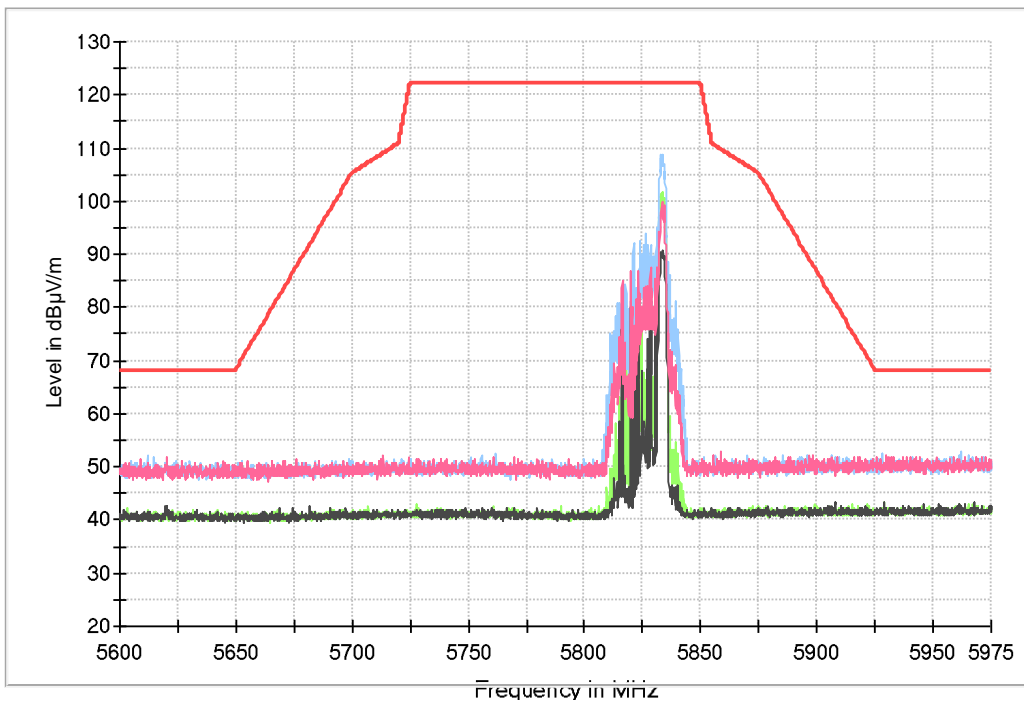


- Middle Channel 157 (5785 MHz) - RU 26 offset 4



- Preview Result 2H-AVG
 - Preview Result 2V-AVG
 - FCC 15.407 Restricted Bands PK UNII-3
 - ◆ Final_Result PK+
- Preview Result 1H-PK+
 - Preview Result 1V-PK+
 - - - FCC 15.407 Restricted Bands AVG
 - ◆ Final_Result AVG

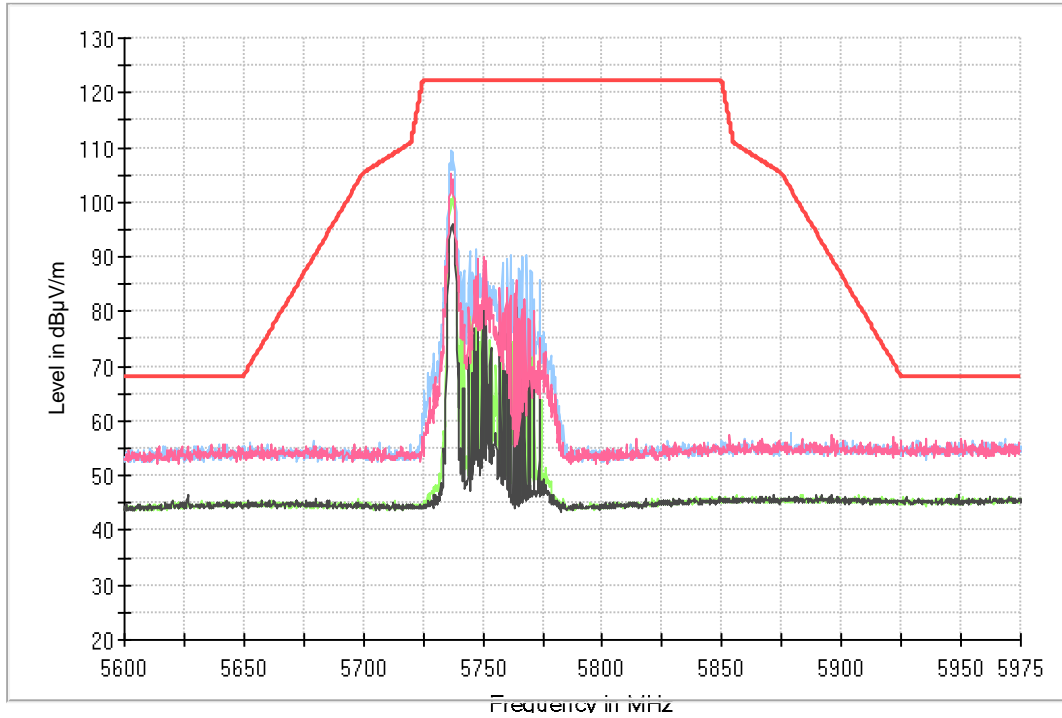
- High Channel 165 (5825 MHz) - RU 26 offset 8



- Preview Result 2H-AVG
 - Preview Result 2V-AVG
 - FCC 15.407 Restricted Bands PK UNII-3
 - ◆ Final_Result PK+
- Preview Result 1H-PK+
 - Preview Result 1V-PK+
 - - - FCC 15.407 Restricted Bands AVG
 - ◆ Final_Result AVG

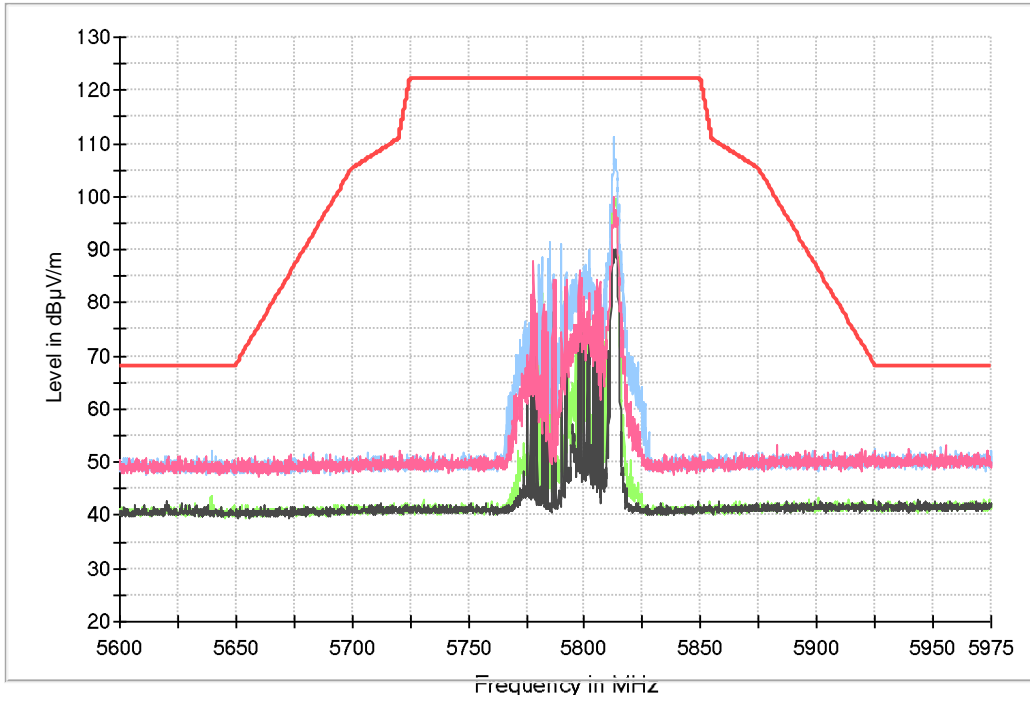
802.11 ax40 (HE40). Spurious emissions inside of the mask 5.65-5.925 GHz:

- **Low Channel 151 (5745 MHz) - RU 26 offset 0:**



- Preview Result 2H-AVG
- Preview Result 2V-AVG
- FCC 15.407 Restricted Bands PK UNII-3
- Final_Result PK+
- Preview Result 1H-PK+
- Preview Result 1V-PK+
- FCC 15.407 Restricted Bands AVG
- Final_Result AVG

- High Channel 159 (5795 MHz) - RU 26 offset 17



- Preview Result 2H-AVG
- Preview Result 2V-AVG
- FCC 15.407 Restricted Bands PK UNII-3
- Preview Result 1H-PK+
- Preview Result 1V-PK+
- FCC 15.407 Restricted Bands AVG
- ◆ Final_Result PK+
- ◆ Final_Result AVG