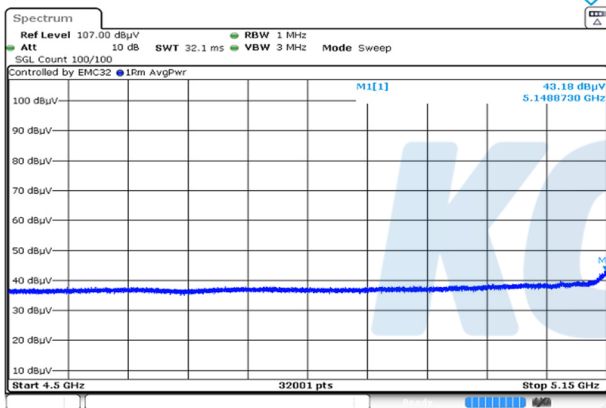
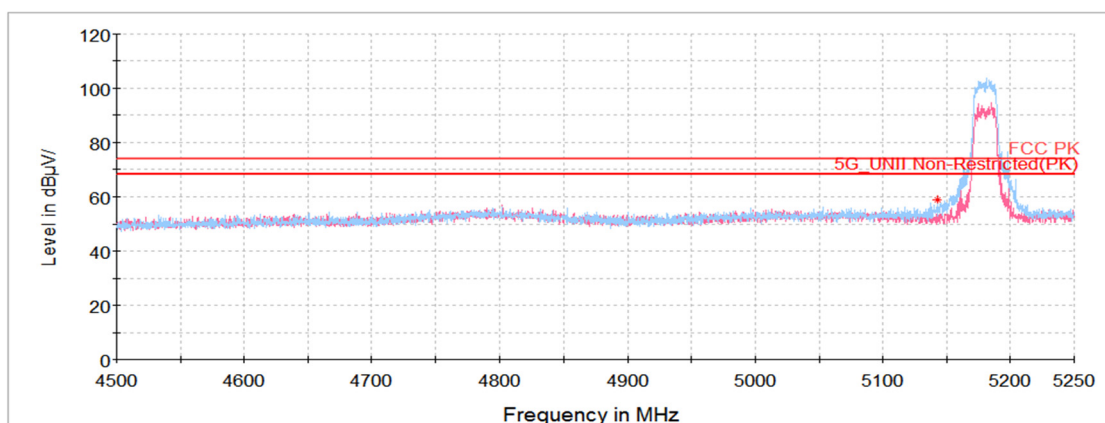


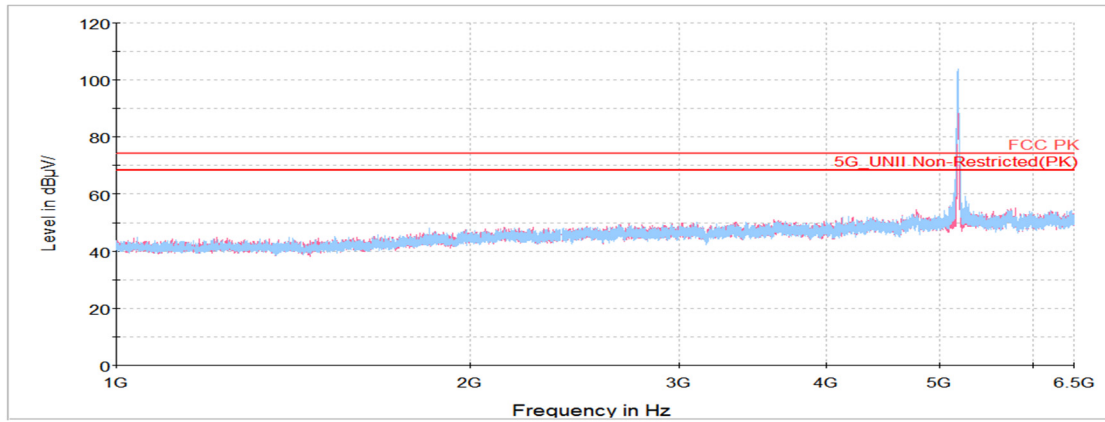
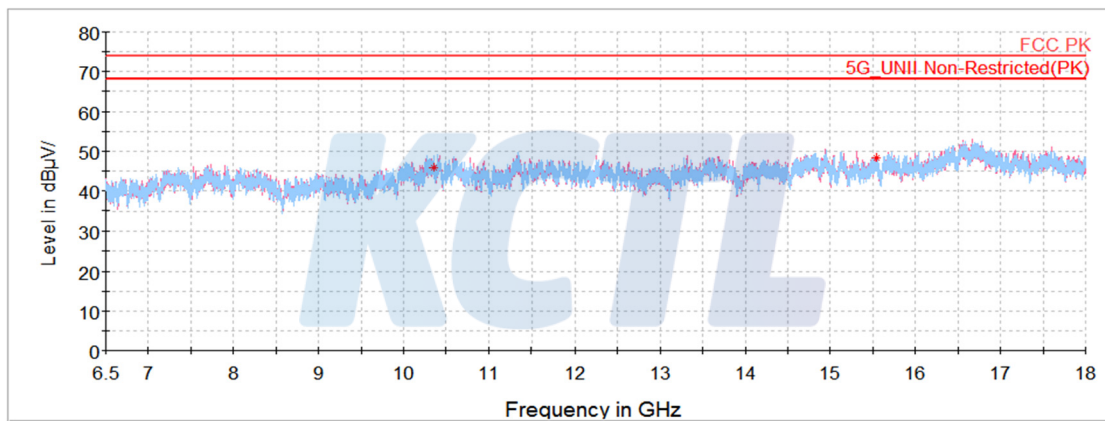
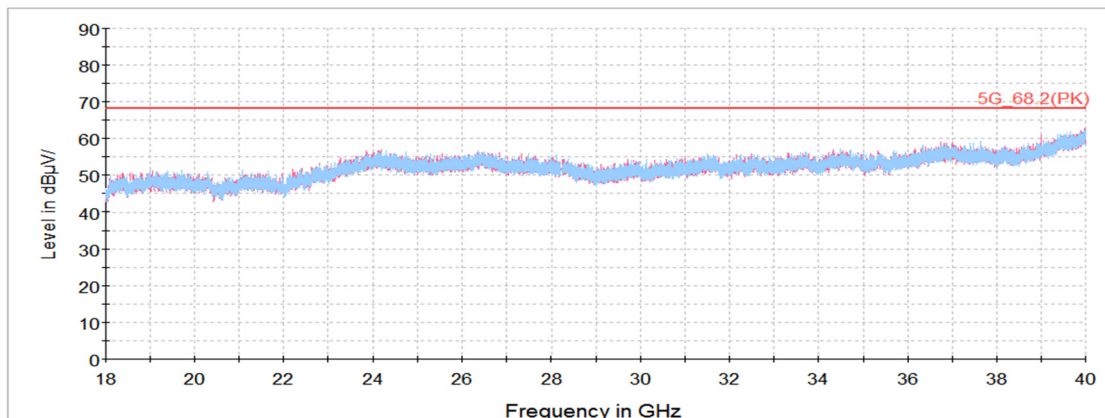
**802.11n HT20 UNII-1****Lowest Channel (5 180 MHz)**

| Frequency               | Pol.  | Reading  | Ant. Factor | Amp.+Cable | DCCF | Result     | Limit      | Margin |
|-------------------------|-------|----------|-------------|------------|------|------------|------------|--------|
| (MHz)                   | (V/H) | (dB(μV)) | (dB)        | (dB)       | (dB) | (dB(μV/m)) | (dB(μV/m)) | (dB)   |
| <b>Peak data</b>        |       |          |             |            |      |            |            |        |
| 5 148.87 <sup>1)</sup>  | H     | 51.78    | 34.15       | -27.11     | -    | 58.82      | 74.00      | 15.18  |
| 10 359.33               | V     | 94.69    | 37.49       | -48.88     | -    | 45.81      | 68.20      | 22.39  |
| 15 540.44 <sup>1)</sup> | V     | 56.72    | 39.70       | -48.02     | -    | 48.40      | 74.00      | 25.60  |
| <b>Average Data</b>     |       |          |             |            |      |            |            |        |
| 5 148.87 <sup>1)</sup>  | H     | 43.18    | 34.15       | -27.11     | 0.35 | 50.57      | 54.00      | 3.43   |

**Average data**

Blank

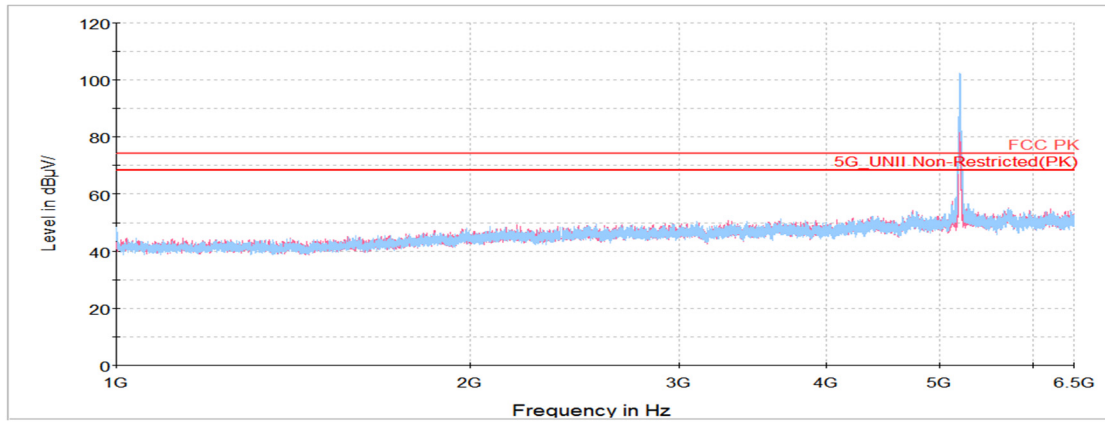
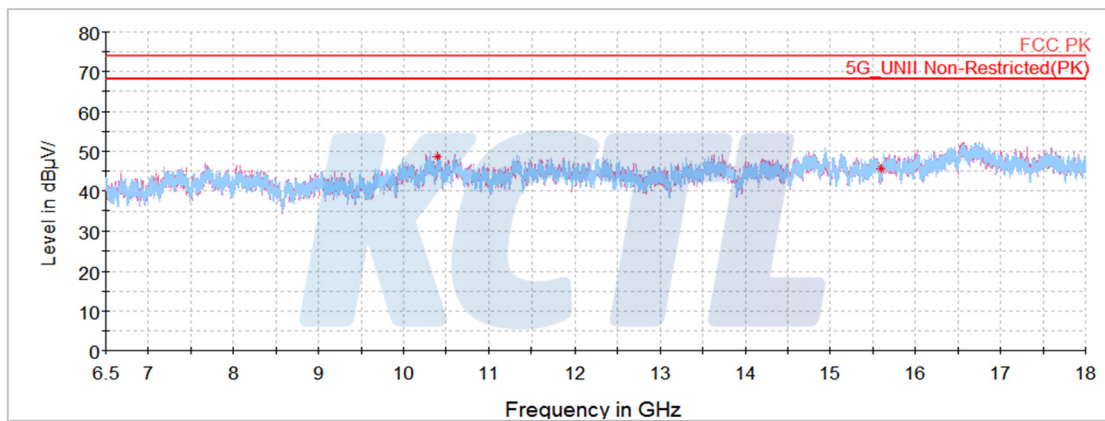
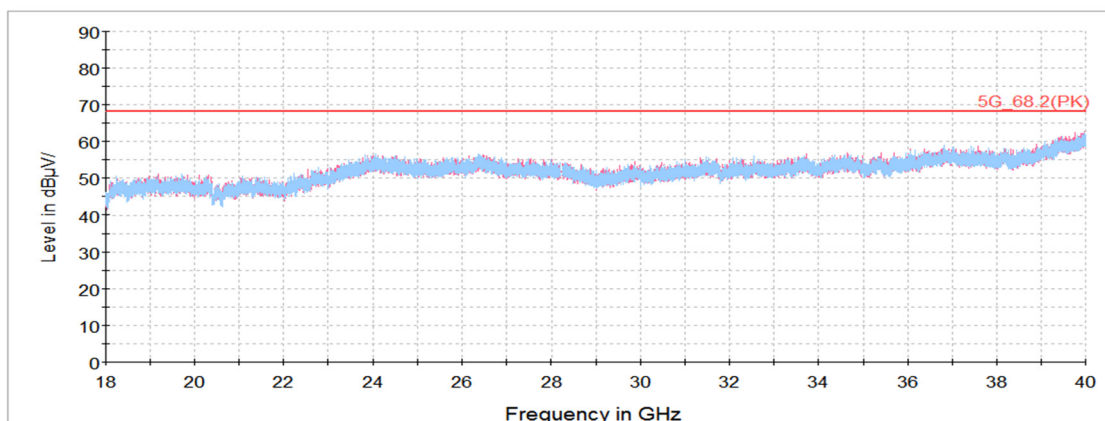
**Horizontal/Vertical for Band-edge**

**Horizontal/Vertical for 1 GHz ~ 6.5 GHz****Horizontal/Vertical for 6.5 GHz ~ 18 GHz****Horizontal/Vertical for 18 GHz ~ 40 GHz**

**Middle Channel (5 200 MHz)**

| Frequency                                                     | Pol.  | Reading  | Ant. Factor | Amp.+Cable | DCCF | Result     | Limit      | Margin |
|---------------------------------------------------------------|-------|----------|-------------|------------|------|------------|------------|--------|
| (MHz)                                                         | (V/H) | (dB(μV)) | (dB)        | (dB)       | (dB) | (dB(μV/m)) | (dB(μV/m)) | (dB)   |
| <b>Peak data</b>                                              |       |          |             |            |      |            |            |        |
| 10 399.94                                                     | V     | 59.69    | 37.52       | -48.65     | -    | 48.56      | 68.20      | 19.64  |
| 15 598.66 <sup>1)</sup>                                       | V     | 53.76    | 39.70       | -48.03     | -    | 45.43      | 74.00      | 28.57  |
| <b>Average Data</b>                                           |       |          |             |            |      |            |            |        |
| No spurious emissions were detected within 20 dB of the limit |       |          |             |            |      |            |            |        |

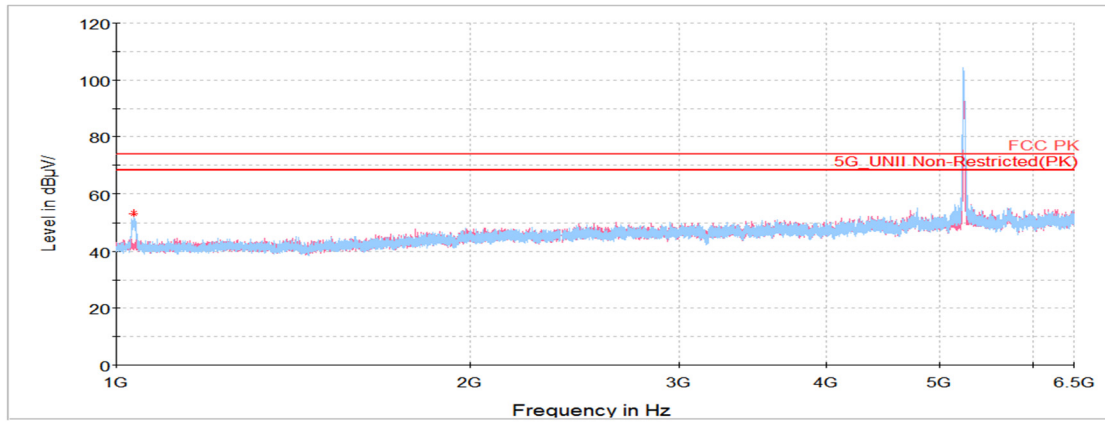
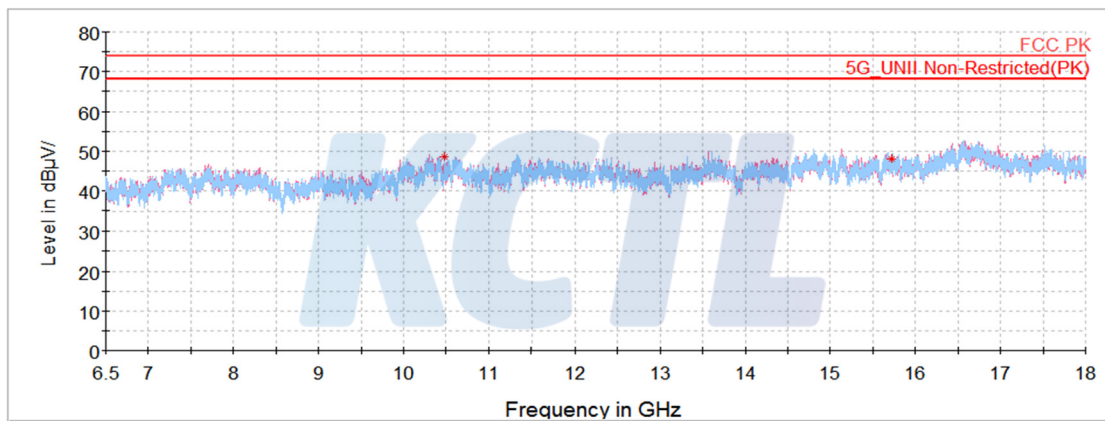
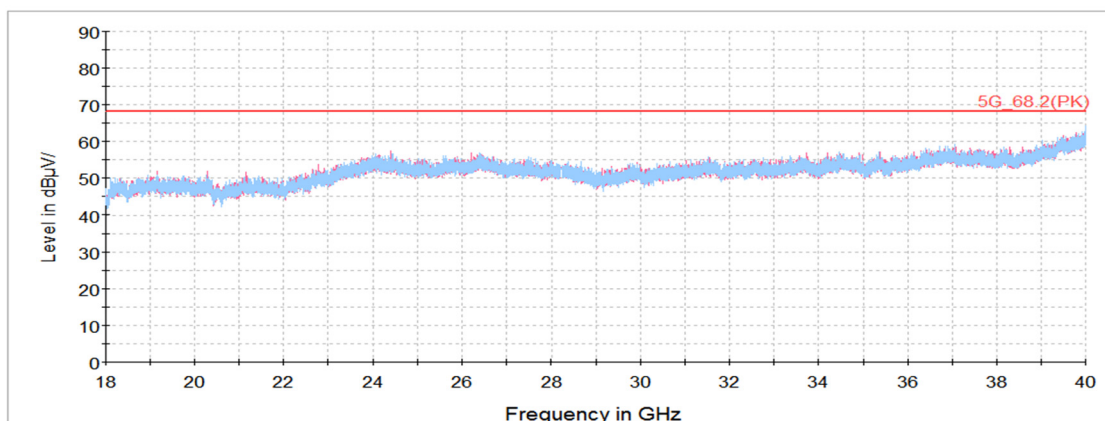


**Horizontal/Vertical for 1 GHz ~ 6.5 GHz****Horizontal/Vertical for 6.5 GHz ~ 18 GHz****Horizontal/Vertical for 18 GHz ~ 40 GHz**

### Highest Channel (5 240 MHz)

| Frequency                                                      | Pol.  | Reading  | Ant. Factor | Amp.+Cable | DCCF | Result     | Limit      | Margin |
|----------------------------------------------------------------|-------|----------|-------------|------------|------|------------|------------|--------|
| (MHz)                                                          | (V/H) | (dB(μV)) | (dB)        | (dB)       | (dB) | (dB(μV/m)) | (dB(μV/m)) | (dB)   |
| <b>Peak data</b>                                               |       |          |             |            |      |            |            |        |
| 1 034.68 <sup>1)</sup>                                         | H     | 77.07    | 26.92       | -50.68     | -    | 53.31      | 74.00      | 20.69  |
| 10 479.72                                                      | V     | 59.19    | 37.58       | -48.19     | -    | 48.58      | 68.20      | 19.62  |
| 15 721.56 <sup>1)</sup>                                        | V     | 56.43    | 39.70       | -48.04     | -    | 48.09      | 74.00      | 25.91  |
| <b>Average Data</b>                                            |       |          |             |            |      |            |            |        |
| No spurious emissions were detected within 20 dB of the limit. |       |          |             |            |      |            |            |        |



**Horizontal/Vertical for 1 GHz ~ 6.5 GHz****Horizontal/Vertical for 6.5 GHz ~ 18 GHz****Horizontal/Vertical for 18 GHz ~ 40 GHz**

**KCTL Inc.**

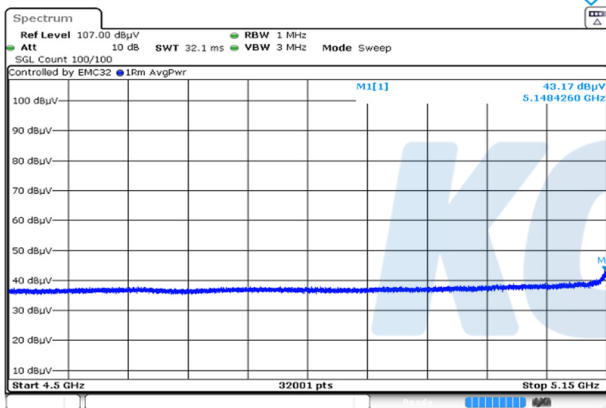
65, Sinwon-ro, Yeongtong-gu,  
Suwon-si, Gyeonggi-do, 16677, Korea  
TEL: 82-31-285-0894 FAX: 82-505-299-8311  
[www.kctl.co.kr](http://www.kctl.co.kr)

Report No.:  
KR19-SRF0165-C

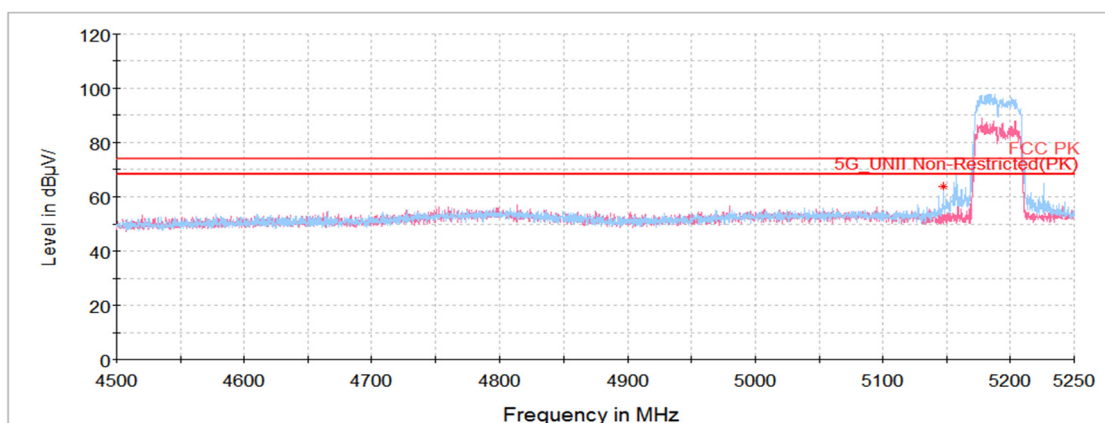
Page (100) of (220)

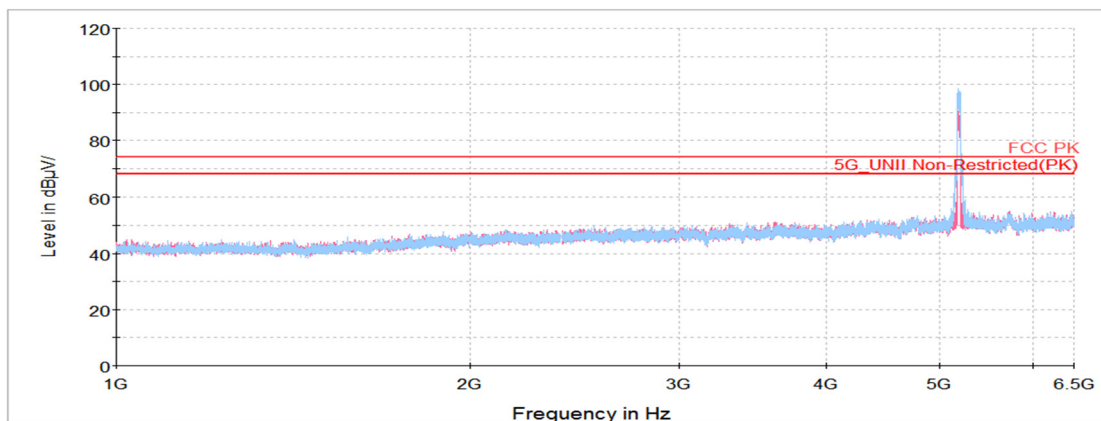
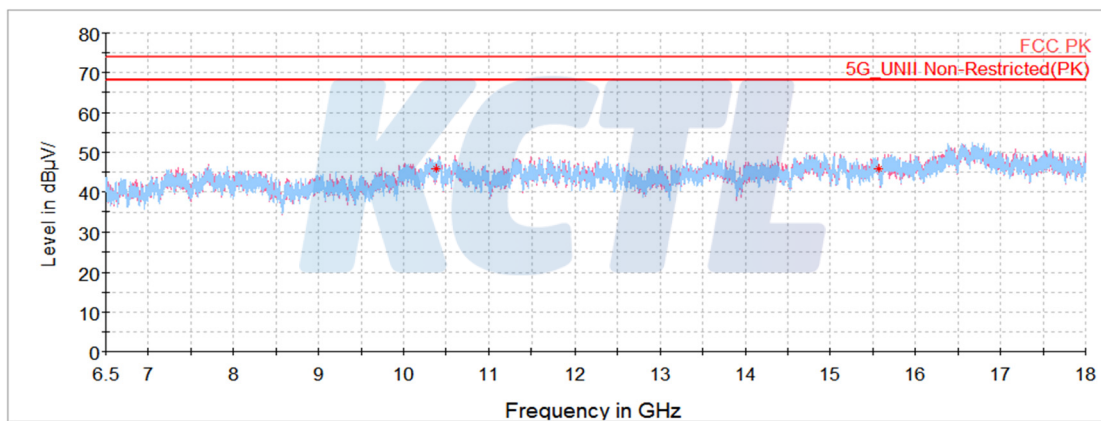
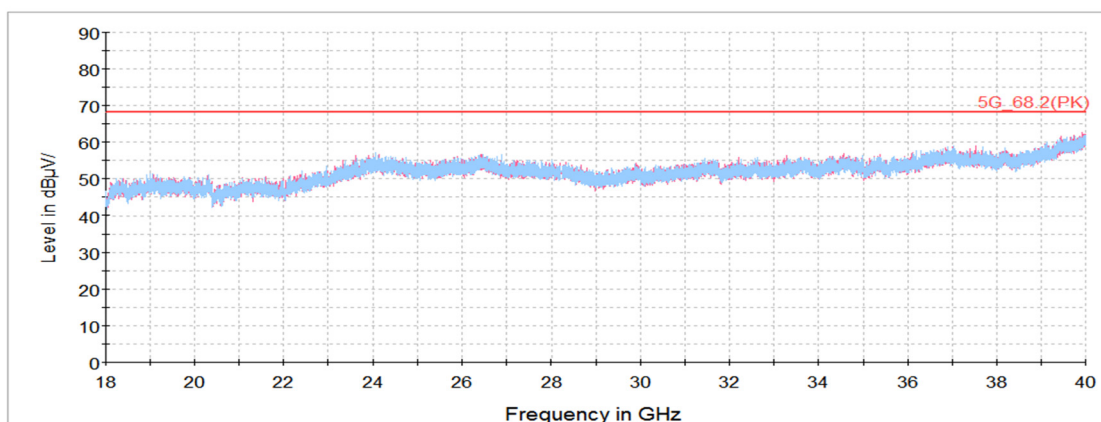
**KCTL****802.11n HT40 UNII-1****Lowest Channel (5 190 MHz)**

| Frequency               | Pol.  | Reading  | Ant. Factor | Amp.+Cable | DCCF | Result     | Limit      | Margin |
|-------------------------|-------|----------|-------------|------------|------|------------|------------|--------|
| (MHz)                   | (V/H) | (dB(μV)) | (dB)        | (dB)       | (dB) | (dB(μV/m)) | (dB(μV/m)) | (dB)   |
| Peak data               |       |          |             |            |      |            |            |        |
| 5 148.43 <sup>1)</sup>  | H     | 56.55    | 34.15       | -27.11     | -    | 63.59      | 74.00      | 10.41  |
| 10 380.17               | V     | 57.11    | 37.50       | -48.76     | -    | 45.85      | 68.20      | 22.35  |
| 15 570.63 <sup>1)</sup> | H     | 54.22    | 39.70       | -48.03     | -    | 45.89      | 74.00      | 28.11  |
| Average Data            |       |          |             |            |      |            |            |        |
| 5 148.43 <sup>1)</sup>  | H     | 43.17    | 34.15       | -27.11     | 0.66 | 50.87      | 54.00      | 3.13   |

**Average data**

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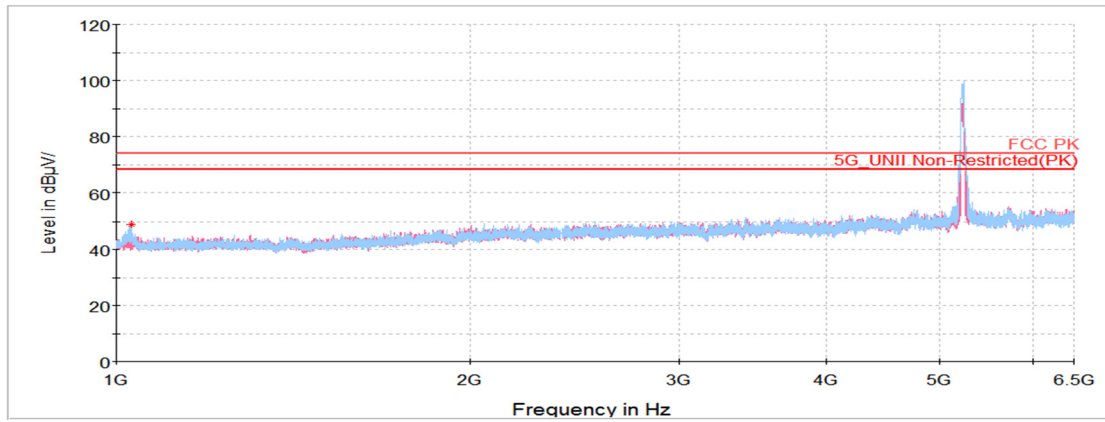
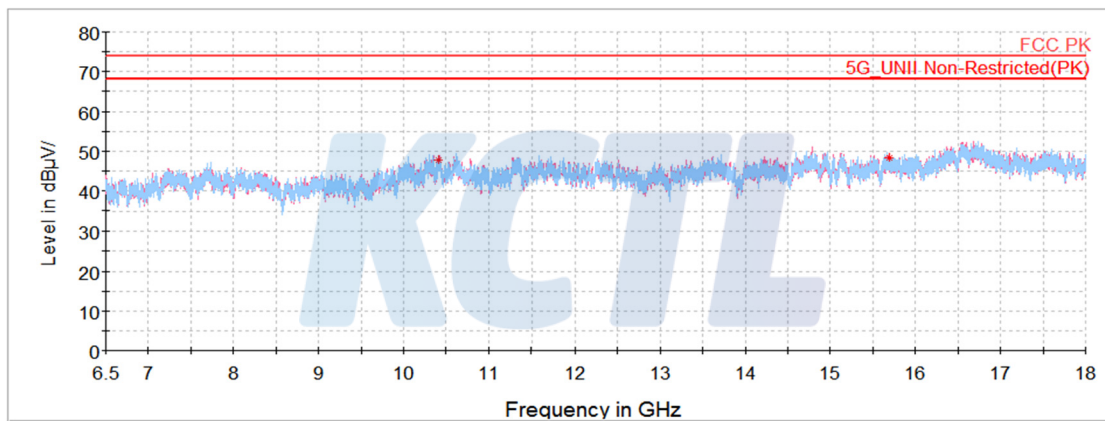
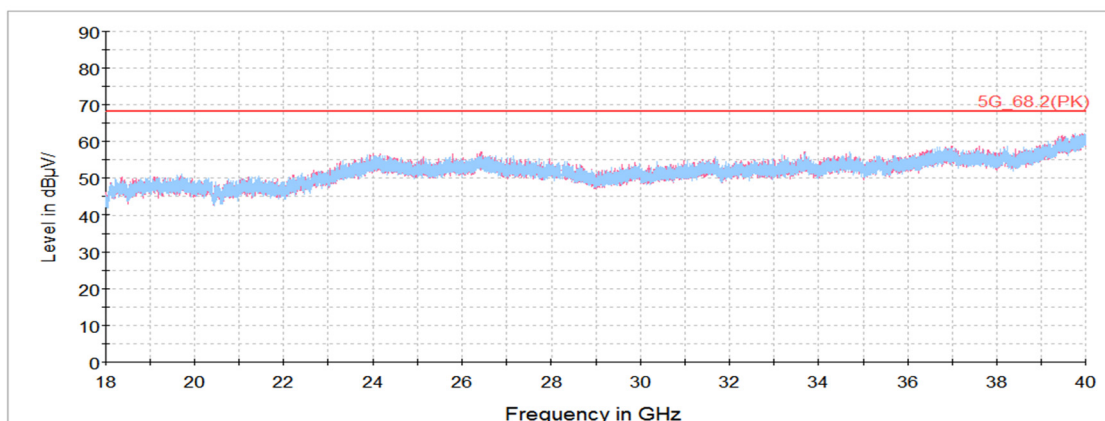
**Horizontal/Vertical for Band-edge**

**Horizontal/Vertical for 1 GHz ~ 6.5 GHz****Horizontal/Vertical for 6.5 GHz ~ 18 GHz****Horizontal/Vertical for 18 GHz ~ 40 GHz**

### Highest Channel (5 230 MHz)

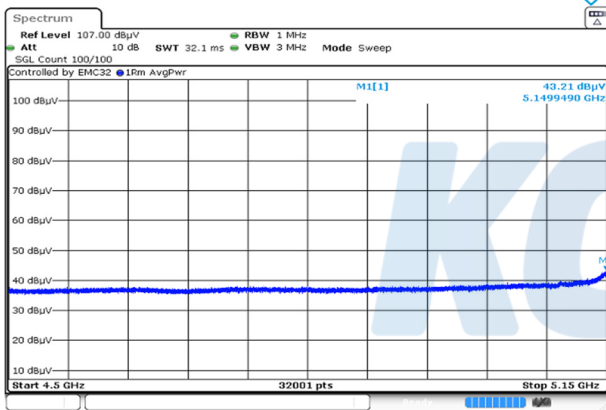
| Frequency                                                      | Pol.  | Reading  | Ant. Factor | Amp.+Cable | DCCF | Result     | Limit      | Margin |
|----------------------------------------------------------------|-------|----------|-------------|------------|------|------------|------------|--------|
| (MHz)                                                          | (V/H) | (dB(μV)) | (dB)        | (dB)       | (dB) | (dB(μV/m)) | (dB(μV/m)) | (dB)   |
| <b>Peak data</b>                                               |       |          |             |            |      |            |            |        |
| 1 029.22 <sup>1)</sup>                                         | H     | 72.67    | 26.92       | -50.67     | -    | 48.92      | 74.00      | 25.08  |
| 10 406.05                                                      | H     | 58.70    | 37.52       | -48.61     | -    | 47.61      | 68.20      | 20.59  |
| 15 690.66 <sup>1)</sup>                                        | H     | 56.69    | 39.70       | -48.04     | -    | 48.35      | 74.00      | 25.65  |
| <b>Average Data</b>                                            |       |          |             |            |      |            |            |        |
| No spurious emissions were detected within 20 dB of the limit. |       |          |             |            |      |            |            |        |



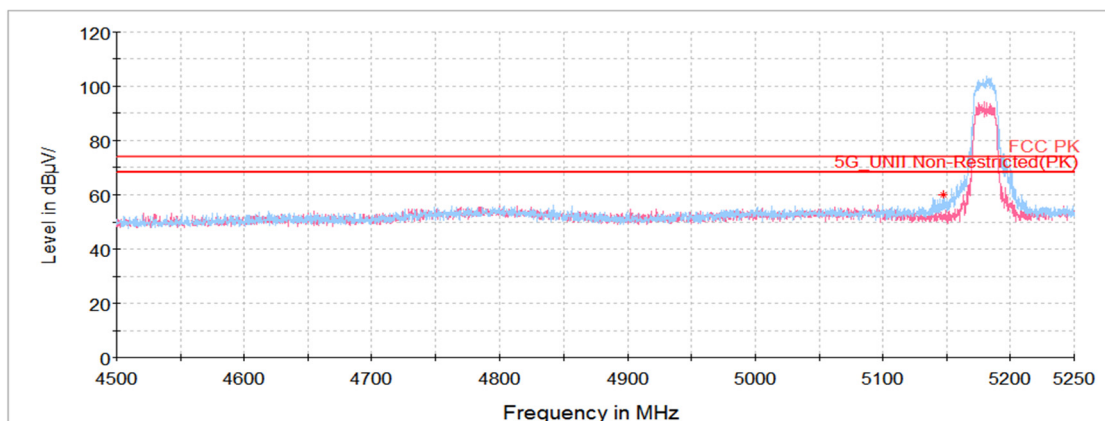
**Horizontal/Vertical for 1 GHz ~ 6.5 GHz****Horizontal/Vertical for 6.5 GHz ~ 18 GHz****Horizontal/Vertical for 18 GHz ~ 40 GHz**

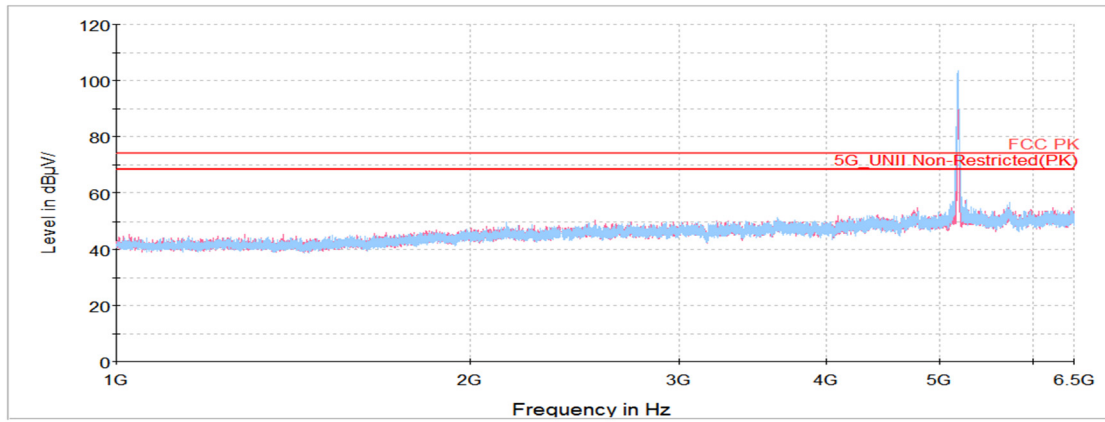
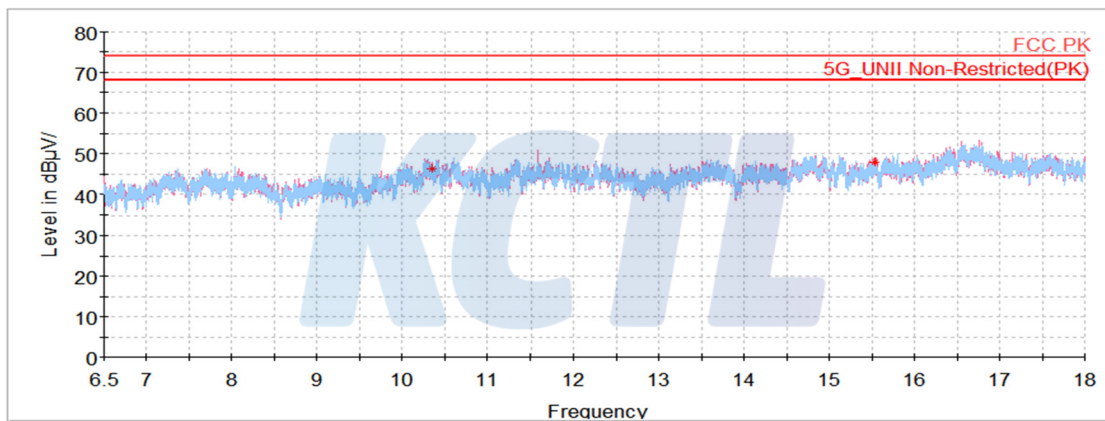
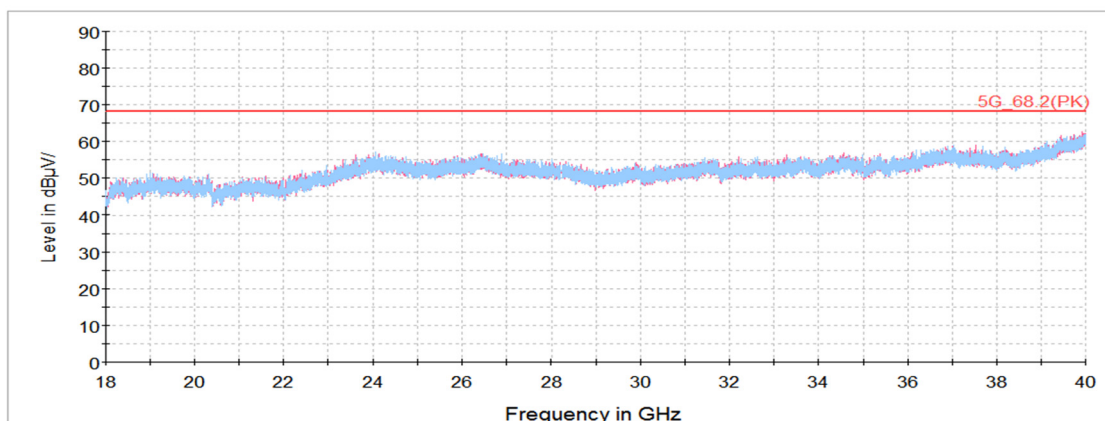
**802.11ac VHT20 UNII-1****Lowest Channel (5 180 MHz)**

| Frequency               | Pol.  | Reading  | Ant. Factor | Amp.+Cable | DCCF | Result     | Limit      | Margin |
|-------------------------|-------|----------|-------------|------------|------|------------|------------|--------|
| (MHz)                   | (V/H) | (dB(μV)) | (dB)        | (dB)       | (dB) | (dB(μV/m)) | (dB(μV/m)) | (dB)   |
| <b>Peak data</b>        |       |          |             |            |      |            |            |        |
| 5 149.95 <sup>1)</sup>  | H     | 52.96    | 34.15       | -27.12     | -    | 59.99      | 74.00      | 14.01  |
| 10 359.33               | V     | 57.72    | 37.49       | -48.88     | -    | 46.33      | 68.20      | 21.87  |
| 15 540.80 <sup>1)</sup> | H     | 56.16    | 39.70       | -48.02     | -    | 47.84      | 74.00      | 26.16  |
| <b>Average Data</b>     |       |          |             |            |      |            |            |        |
| 5 149.95 <sup>1)</sup>  | H     | 43.21    | 34.15       | -27.12     | 0.31 | 50.55      | 54.00      | 3.45   |

**Average data**

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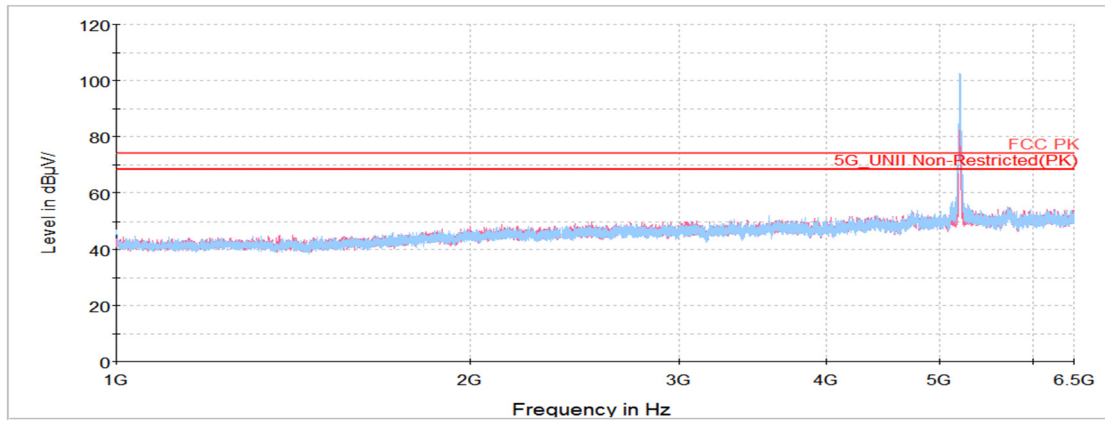
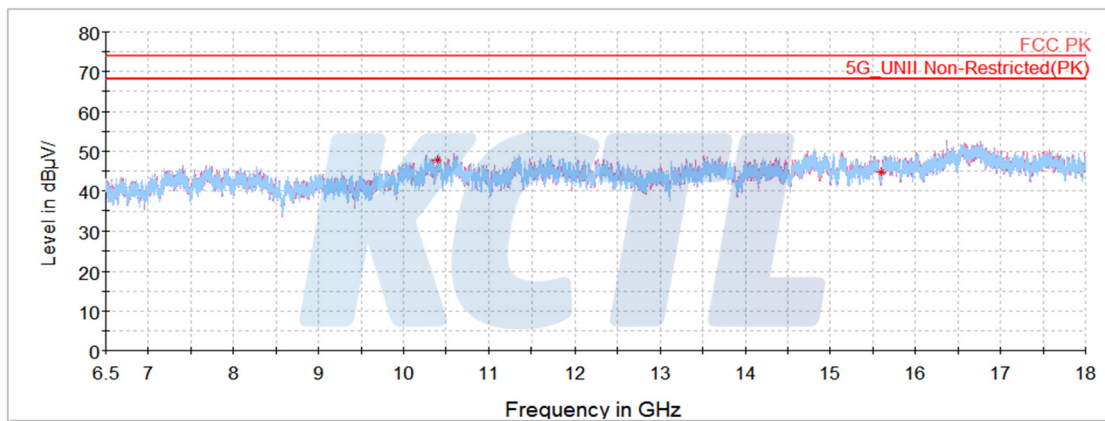
**Horizontal/Vertical for Band-edge**

**Horizontal/Vertical for 1 GHz ~ 6.5 GHz****Horizontal/Vertical for 6.5 GHz ~ 18 GHz****Horizontal/Vertical for 18 GHz ~ 40 GHz**

### Middle Channel (5 200 MHz)

| Frequency                                                     | Pol.  | Reading  | Ant. Factor | Amp.+Cable | DCCF | Result     | Limit      | Margin |
|---------------------------------------------------------------|-------|----------|-------------|------------|------|------------|------------|--------|
| (MHz)                                                         | (V/H) | (dB(μV)) | (dB)        | (dB)       | (dB) | (dB(μV/m)) | (dB(μV/m)) | (dB)   |
| <b>Peak data</b>                                              |       |          |             |            |      |            |            |        |
| 10 399.94                                                     | H     | 58.86    | 37.52       | -48.65     | -    | 47.73      | 68.20      | 20.47  |
| 15 599.02 <sup>1)</sup>                                       | V     | 52.96    | 39.70       | -48.03     | -    | 44.63      | 74.00      | 29.37  |
| <b>Average Data</b>                                           |       |          |             |            |      |            |            |        |
| No spurious emissions were detected within 20 dB of the limit |       |          |             |            |      |            |            |        |



**Horizontal/Vertical for 1 GHz ~ 6.5 GHz****Horizontal/Vertical for 6.5 GHz ~ 18 GHz****Horizontal/Vertical for 18 GHz ~ 40 GHz**