

**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)

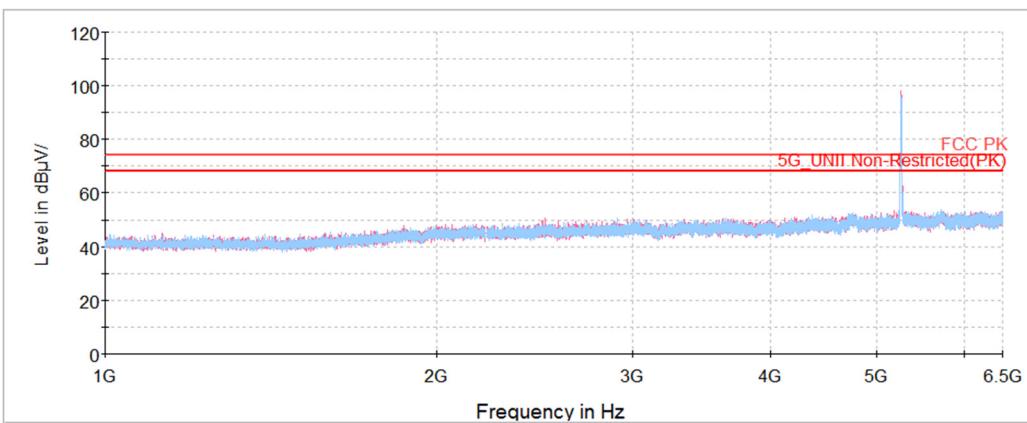
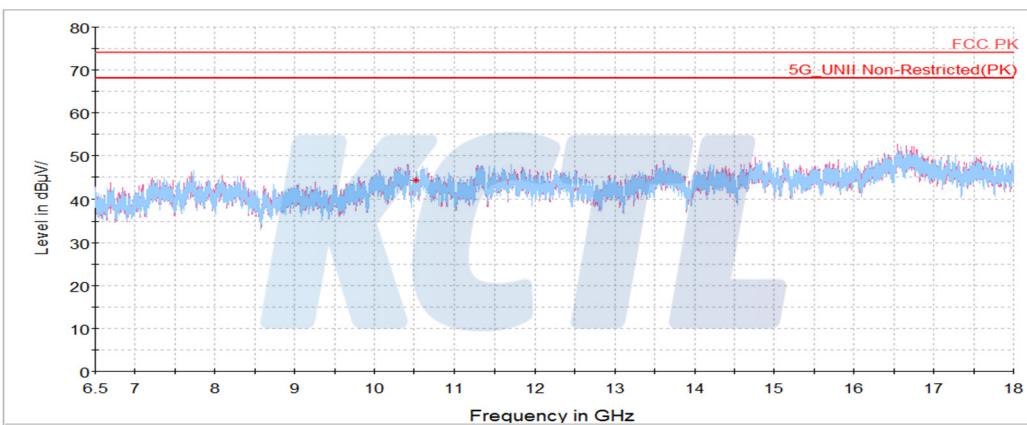
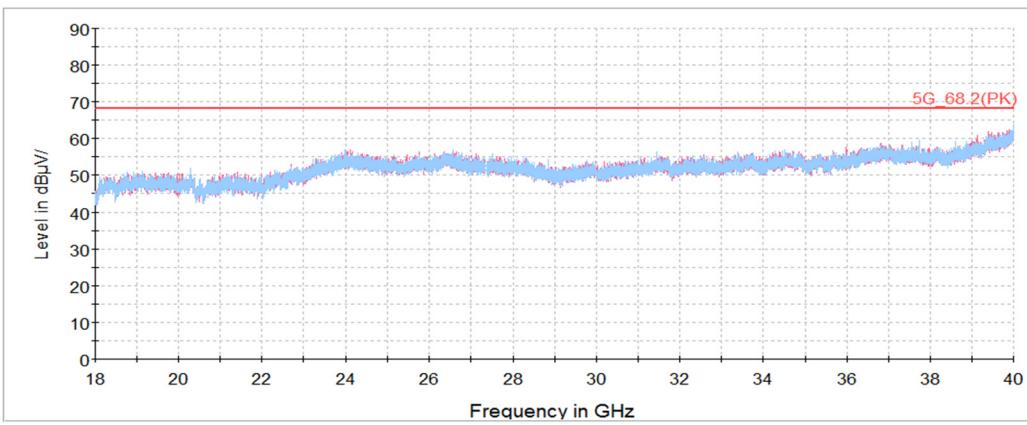
Report No.:

KR20-SRF0044

Page (127) of (203)

**802.11ac VHT20 UNII-2A****Lowest Channel (5 260 MHz)**

| Frequency<br>(MHz)  | Pol.<br>(V/H) | Reading<br>(dB( $\mu$ V)) | Ant. Factor<br>(dB) | Amp.+Cable<br>(dB) | DCCF<br>(dB) | Result<br>(dB( $\mu$ V/m)) | Limit<br>(dB( $\mu$ V/m)) | Margin<br>(dB) |
|---|---------------|---------------------------|---------------------|--------------------|--------------|----------------------------|---------------------------|----------------|
| <b>Peak data</b>  |               |                           |                     |                    |              |                            |                           |                |
| 10519.97  | H             | 55.05                     | 37.41               | -48.21             |              | 44.25                      | 68.20                     | 23.95          |
| <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**

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Report No.:

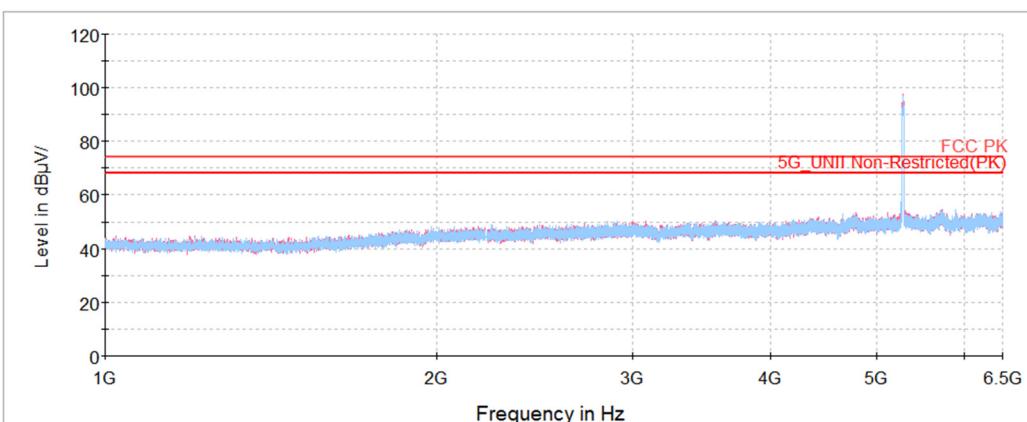
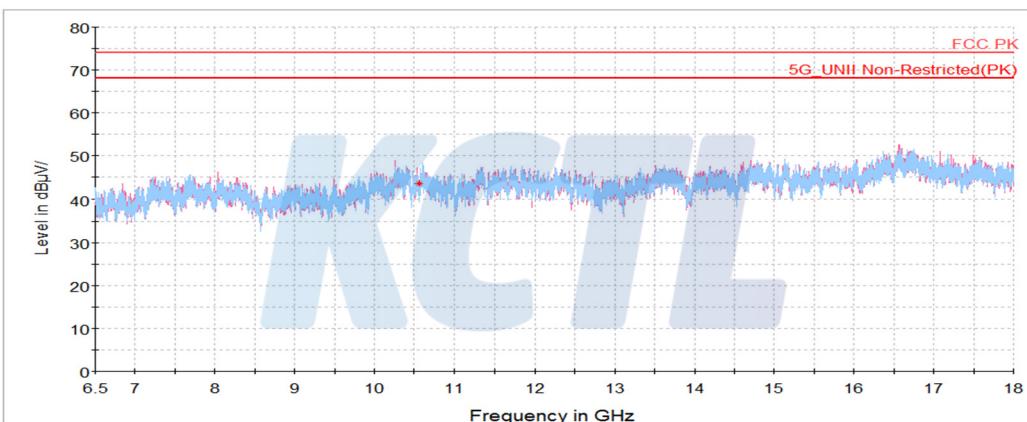
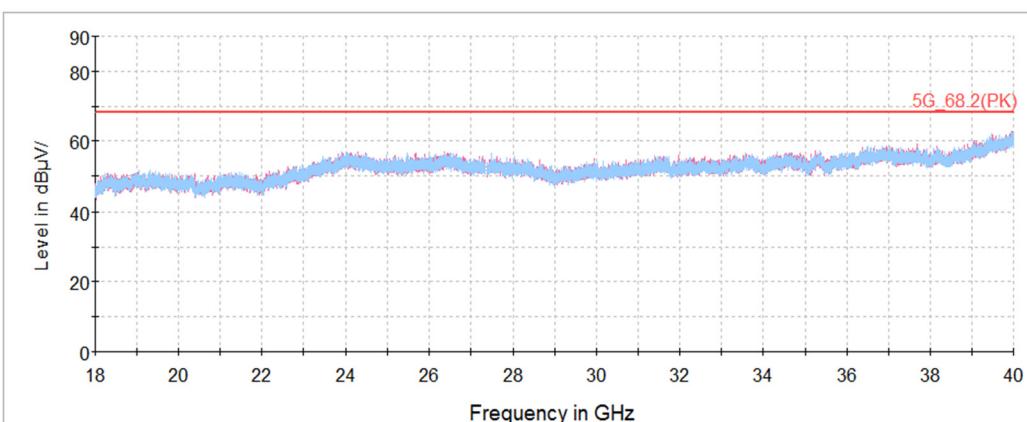
KR20-SRF0044

Page (129) of (203)

**KCTL****Middle Channel (5 280 MHz)**

| Frequency  | Pol.  | Reading        | Ant. Factor | Amp.+Cable | DCCF | Result           | Limit            | Margin |
|--|-------|----------------|-------------|------------|------|------------------|------------------|--------|
| (MHz)  | (V/H) | (dB( $\mu$ V)) | (dB)        | (dB)       | (dB) | (dB( $\mu$ V/m)) | (dB( $\mu$ V/m)) | (dB)   |
| <b>Peak data</b>   |       |                |             |            |      |                  |                  |        |
| 10 560.22  | H     | 54.56          | 37.44       | -48.47     | -    | 43.53            | 68.20            | 24.67  |
| <b>Average Data</b>  |       |                |             |            |      |                  |                  |        |
| No spurious emissions were detected within 20 dB of the limit. |       |                |             |            |      |                  |                  |        |

**KCTL**

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

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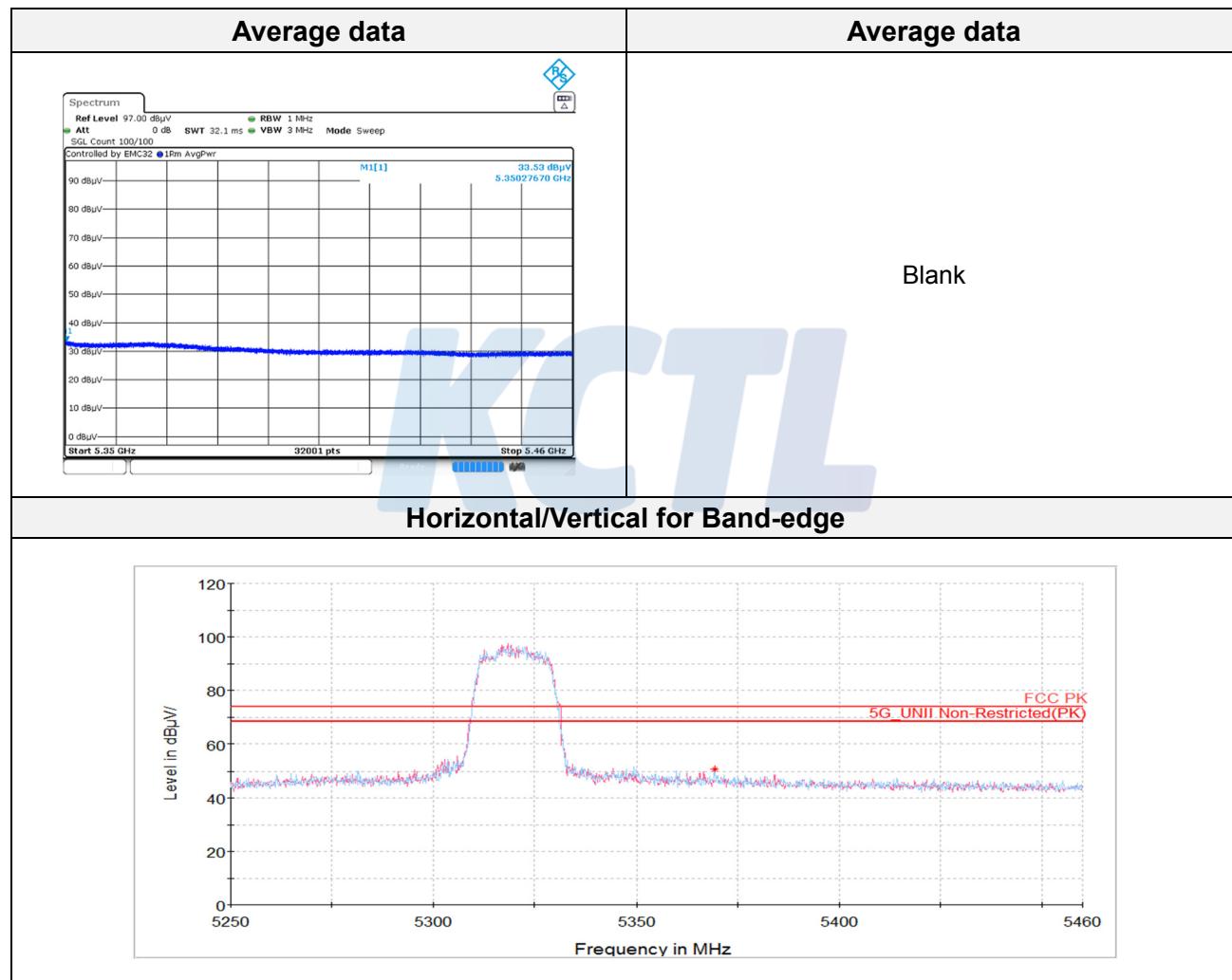
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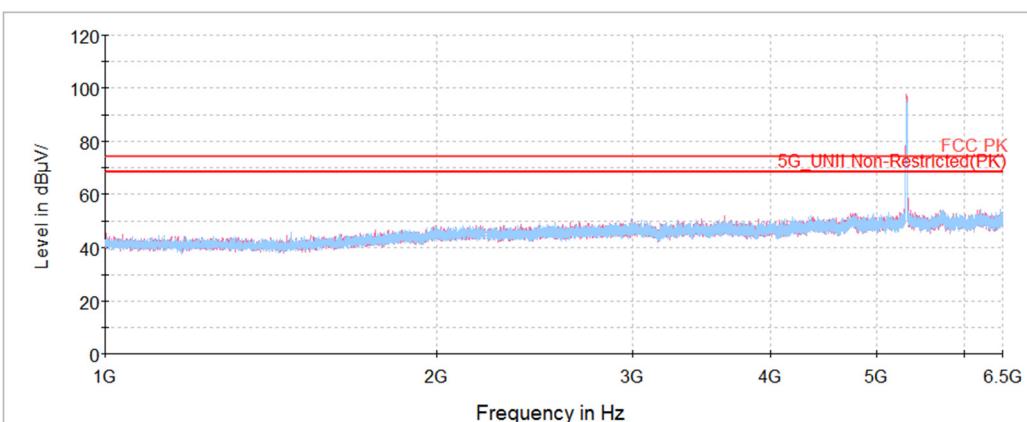
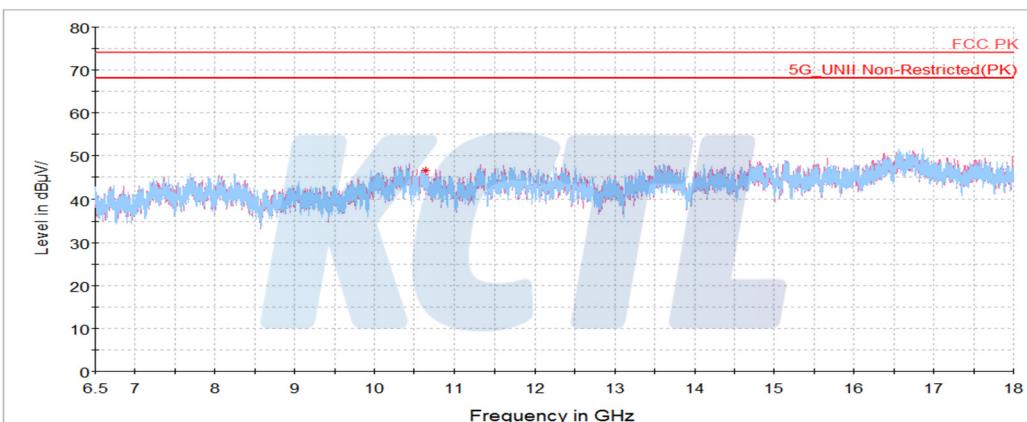
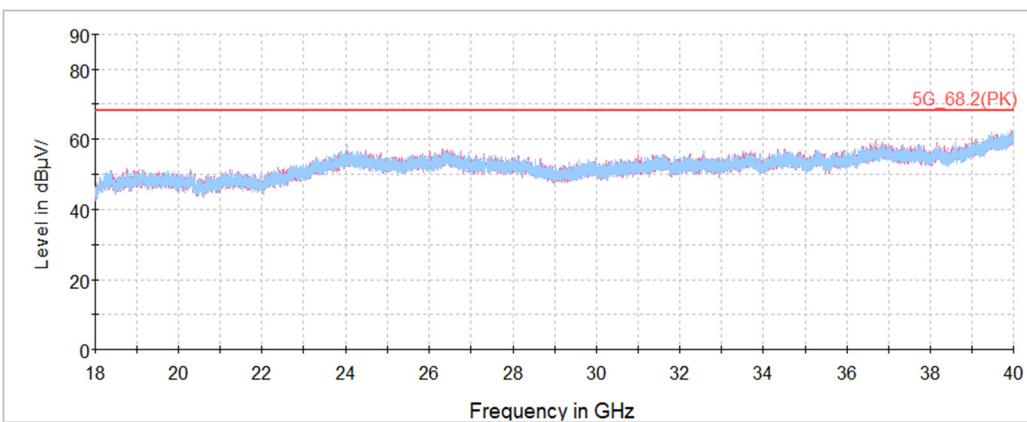
KR20-SRF0044

Page (131) of (203)

**KCTL****Highest Channel (5 320 MHz)**

| Frequency               | Pol.  | Reading        | Ant. Factor | Amp.+Cable | DCCF | Result           | Limit            | Margin |
|-------------------------|-------|----------------|-------------|------------|------|------------------|------------------|--------|
| (MHz)                   | (V/H) | (dB( $\mu$ V)) | (dB)        | (dB)       | (dB) | (dB( $\mu$ V/m)) | (dB( $\mu$ V/m)) | (dB)   |
| <b>Peak data</b>        |       |                |             |            |      |                  |                  |        |
| 5 350.28 <sup>1)</sup>  | H     | 43.20          | 34.32       | -26.84     | -    | 50.68            | 74.00            | 23.32  |
| 10 639.28 <sup>1)</sup> | V     | 58.20          | 37.48       | -49.00     | -    | 46.68            | 74.00            | 27.32  |
| <b>Average Data</b>     |       |                |             |            |      |                  |                  |        |
| 5 350.28 <sup>1)</sup>  | H     | 33.53          | 34.32       | -26.84     | 0.32 | 41.33            | 54.00            | 12.67  |



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

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Report No.:

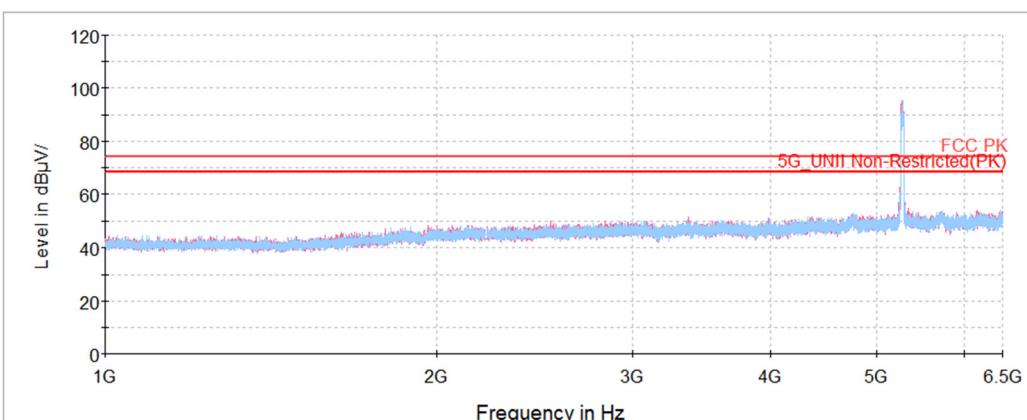
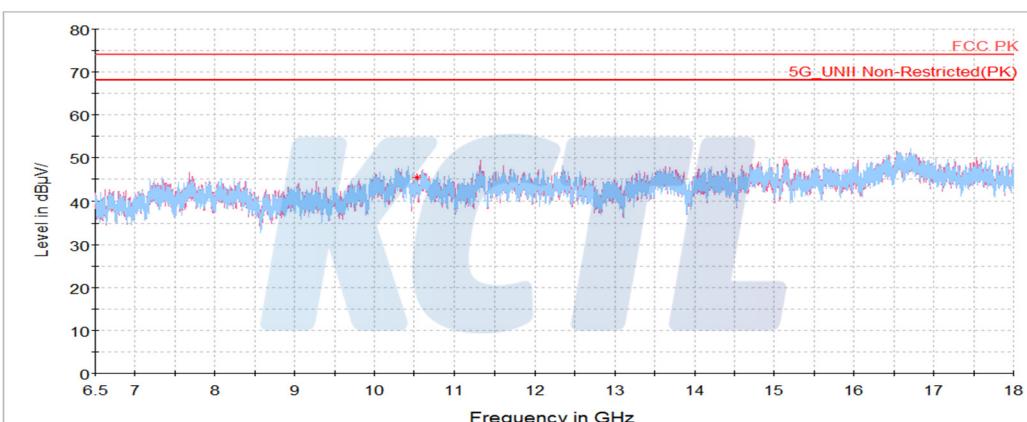
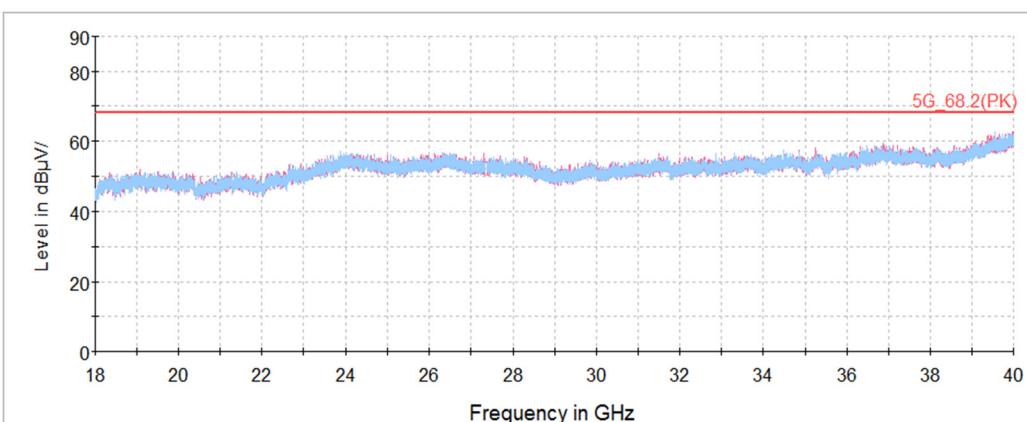
KR20-SRF0044

Page (133) of (203)

**802.11ac VHT40 UNII-2A****Lowest Channel (5 270 MHz)**

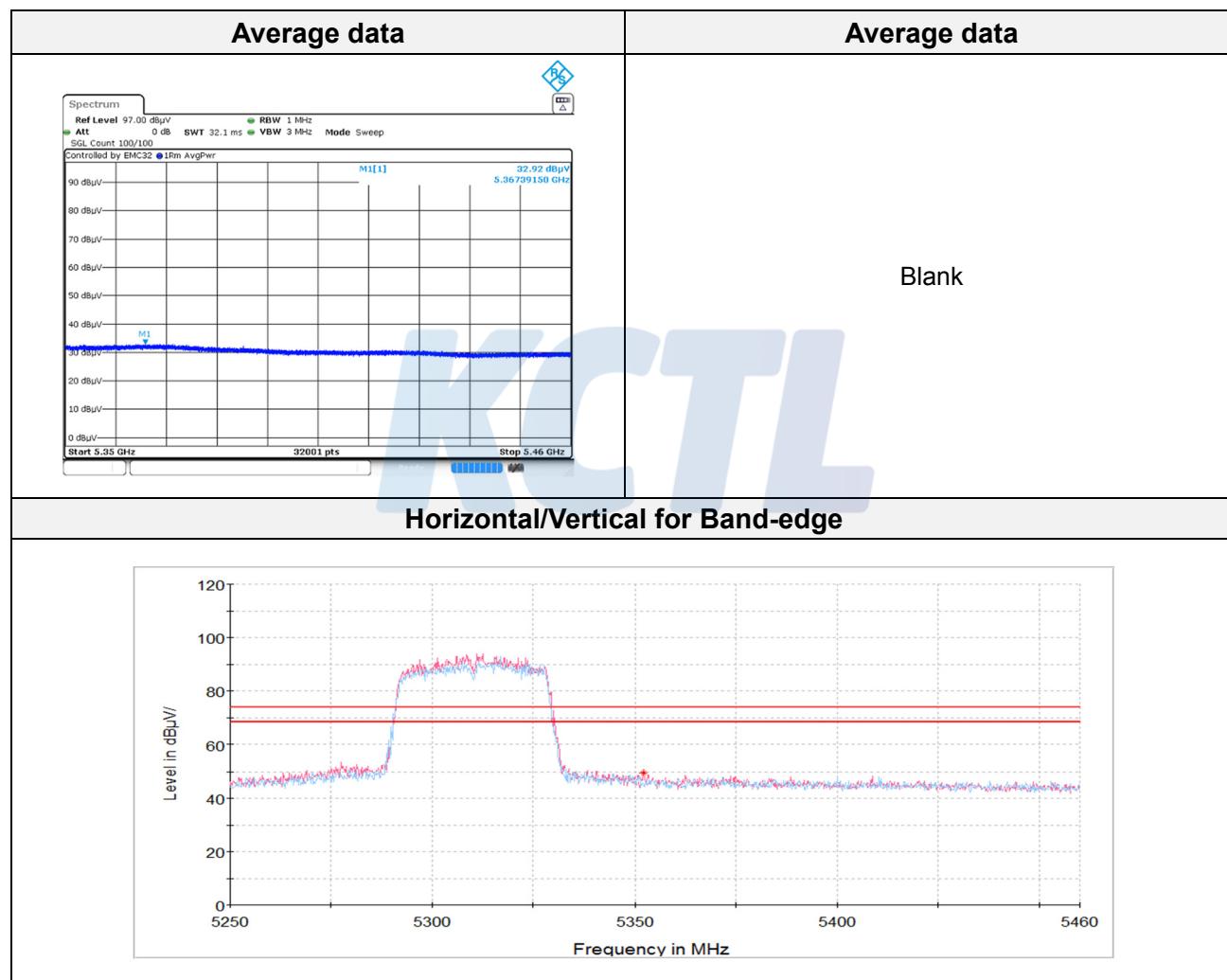
| Frequency<br>(MHz)  | Pol.<br>(V/H) | Reading<br>(dB( $\mu$ V)) | Ant. Factor<br>(dB) | Amp.+Cable<br>(dB) | DCCF<br>(dB) | Result<br>(dB( $\mu$ V/m)) | Limit<br>(dB( $\mu$ V/m)) | Margin<br>(dB) |
|---------------------|---------------|---------------------------|---------------------|--------------------|--------------|----------------------------|---------------------------|----------------|
| <b>Peak data</b>    |               |                           |                     |                    |              |                            |                           |                |
| 10 539.73           | H             | 56.44                     | 37.42               | -48.34             | -            | 45.52                      | 68.20                     | 22.68          |
| <b>Average Data</b> |               |                           |                     |                    |              |                            |                           |                |

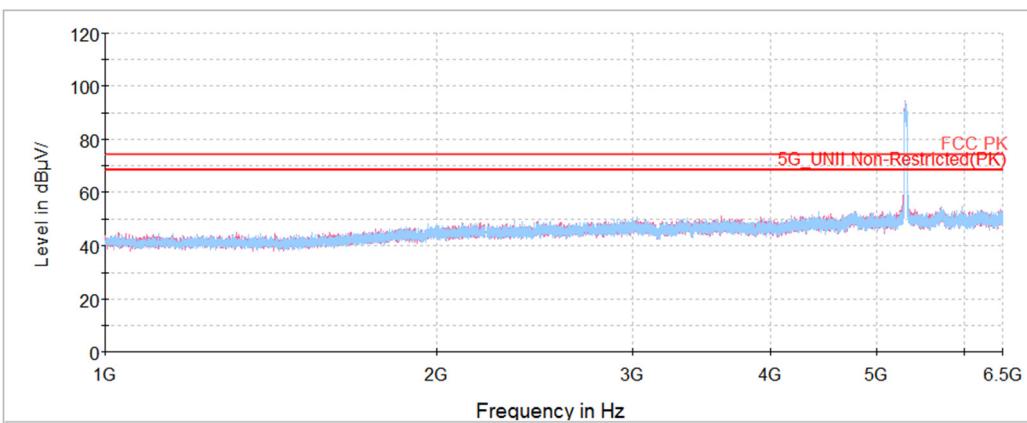
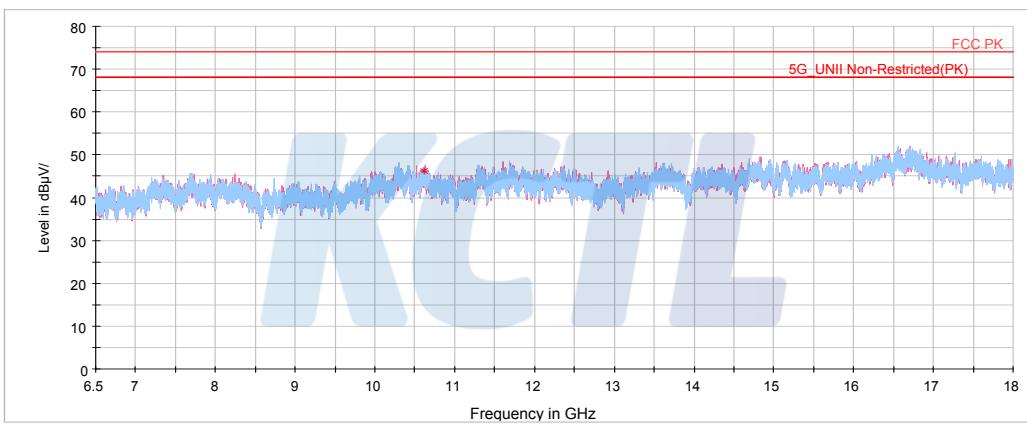
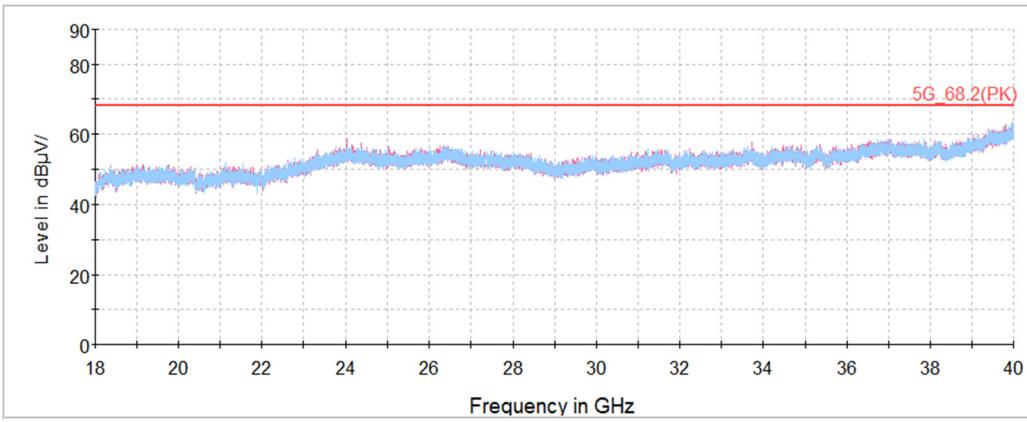
No spurious emissions were detected within 20 dB of the limit.

**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 (5 310 MHz)**

| Frequency               | Pol.  | Reading        | Ant. Factor | Amp.+Cable | DCCF | Result           | Limit            | Margin |
|-------------------------|-------|----------------|-------------|------------|------|------------------|------------------|--------|
| (MHz)                   | (V/H) | (dB( $\mu$ V)) | (dB)        | (dB)       | (dB) | (dB( $\mu$ V/m)) | (dB( $\mu$ V/m)) | (dB)   |
| <b>Peak data</b>        |       |                |             |            |      |                  |                  |        |
| 5 367.39 <sup>1)</sup>  | V     | 41.97          | 34.34       | -26.80     | -    | 49.51            | 74.00            | 24.49  |
| 10 619.88 <sup>1)</sup> | H     | 57.62          | 37.47       | -48.87     | -    | 46.22            | 74.00            | 27.78  |
| <b>Average Data</b>     |       |                |             |            |      |                  |                  |        |
| 5 367.39 <sup>1)</sup>  | V     | 32.92          | 34.34       | -26.80     | 0.65 | 41.11            | 54.00            | 12.89  |



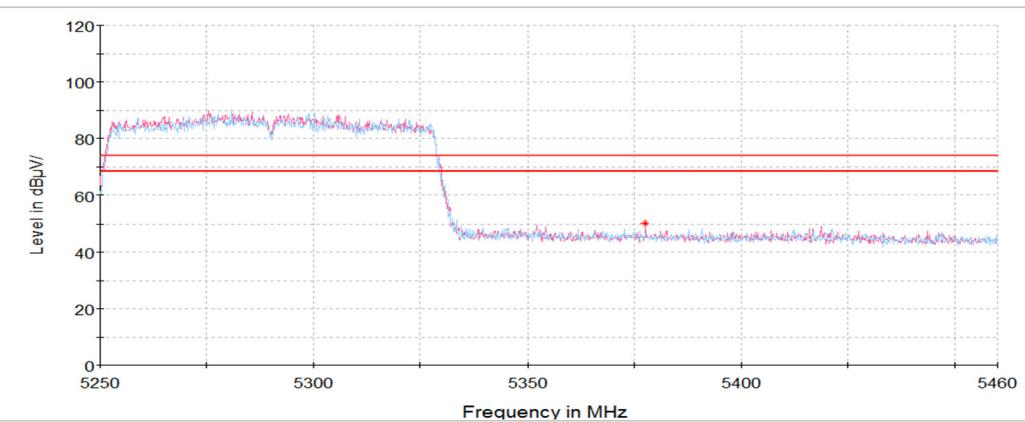
**Horizontal/Vertical for 1 GHz ~ 6.5 GHz****Horizontal/Vertical for 6.5 GHz ~ 18 GHz****Horizontal/Vertical for 18 GHz ~ 40 GHz**

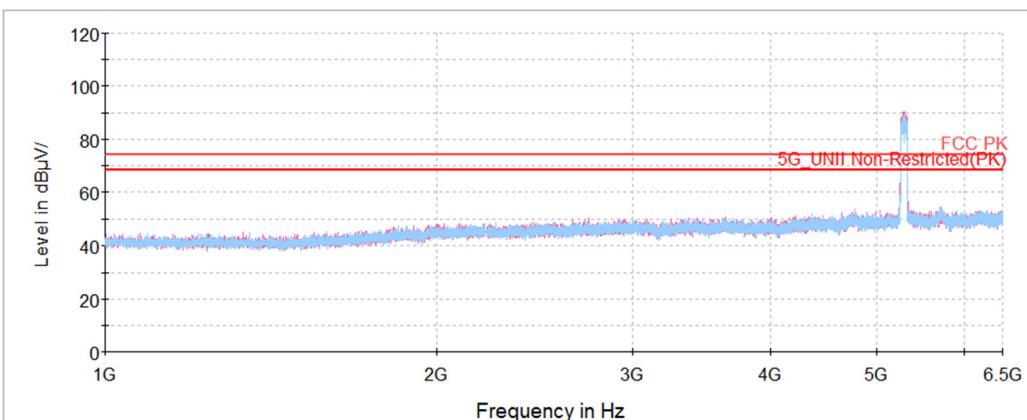
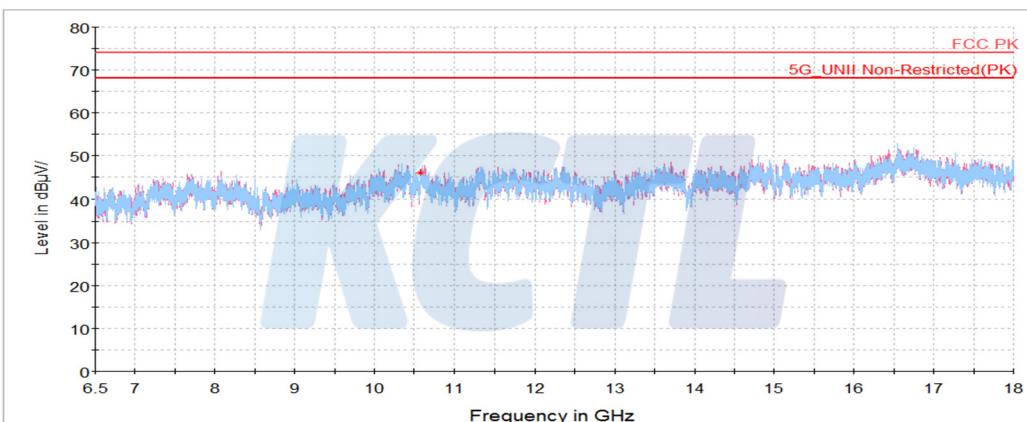
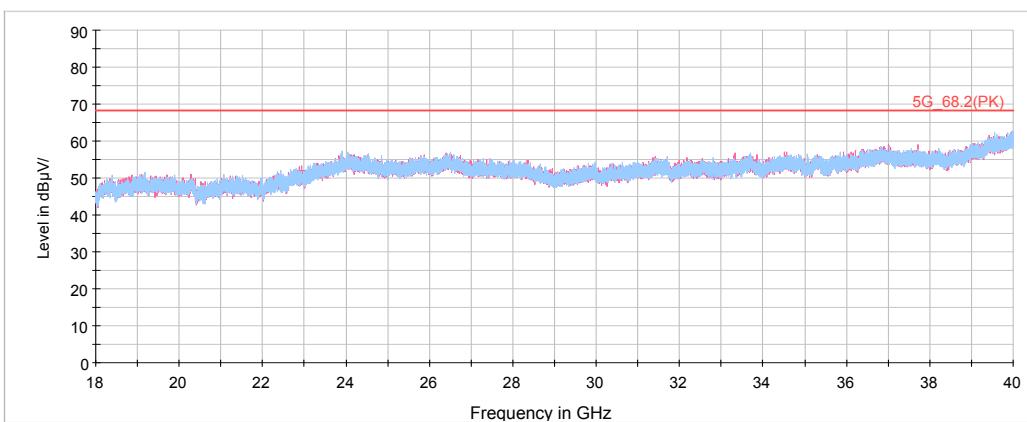
**802.11ac VHT80 UNII-2A****Lowest Channel (5 290 MHz)**

| Frequency              | Pol.  | Reading        | Ant. Factor | Amp.+Cable | DCCF | Result           | Limit            | Margin |
|------------------------|-------|----------------|-------------|------------|------|------------------|------------------|--------|
| (MHz)                  | (V/H) | (dB( $\mu$ V)) | (dB)        | (dB)       | (dB) | (dB( $\mu$ V/m)) | (dB( $\mu$ V/m)) | (dB)   |
| <b>Peak data</b>       |       |                |             |            |      |                  |                  |        |
| 5 367.27 <sup>1)</sup> | V     | 42.53          | 34.34       | -26.80     | -    | 50.07            | 74.00            | 23.93  |
| 10 580.34              | H     | 57.16          | 37.45       | -48.61     | -    | 46.00            | 68.20            | 22.20  |
| <b>Average Data</b>    |       |                |             |            |      |                  |                  |        |
| 5 367.27 <sup>1)</sup> | V     | 33.07          | 34.34       | -26.80     | 1.13 | 41.74            | 54.00            | 12.26  |

**Average data****Average data**

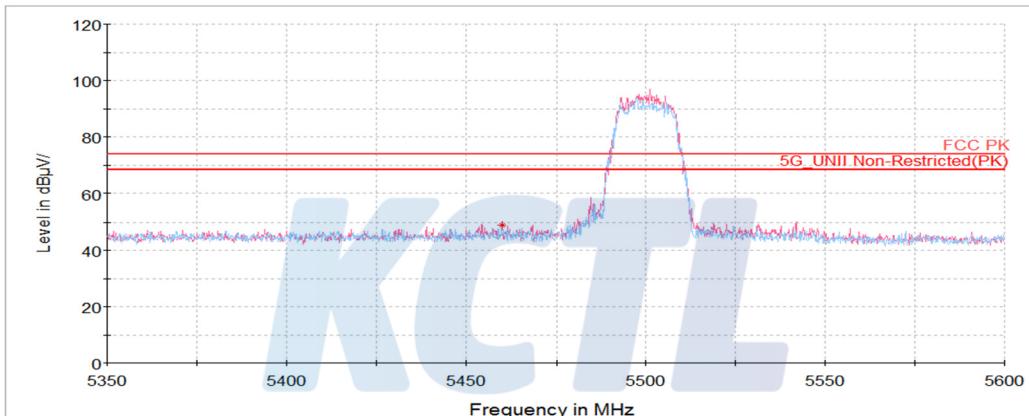
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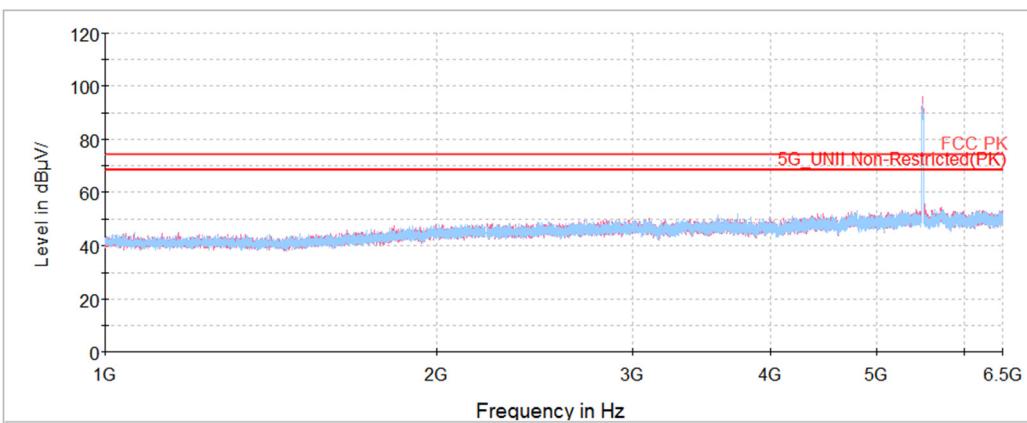
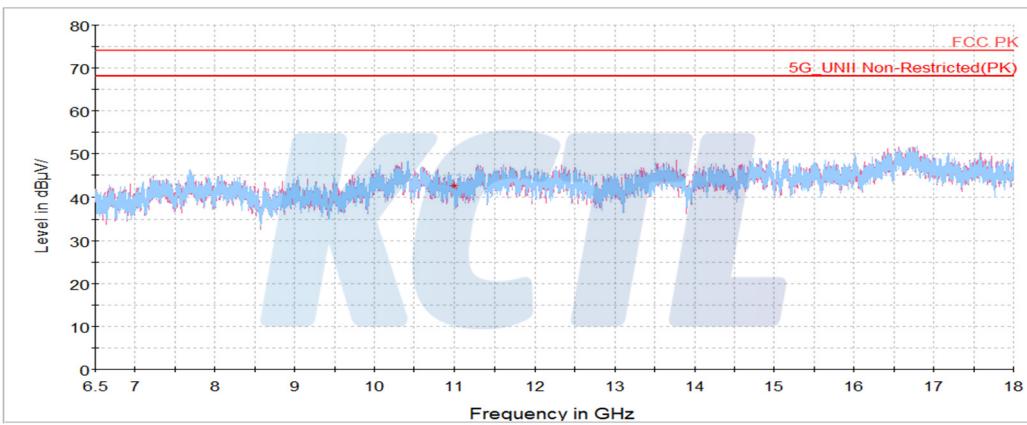
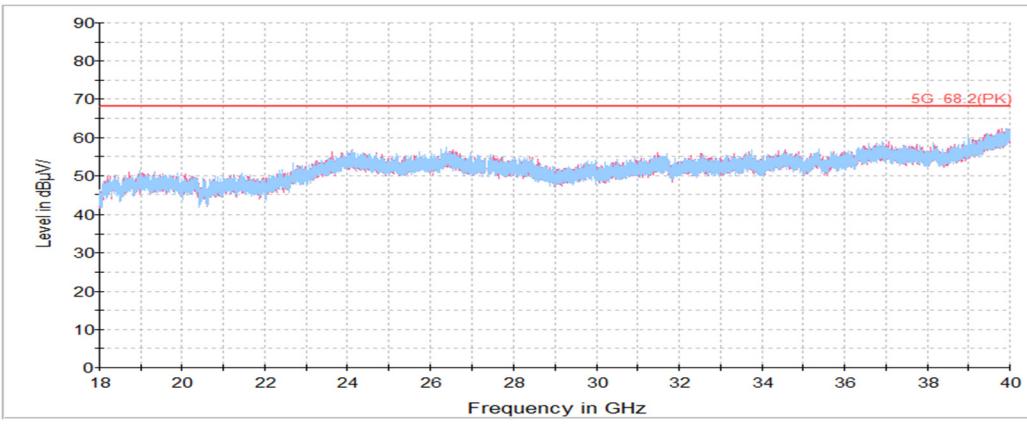
**Horizontal/Vertical for Band-edge**

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

**802.11a UNII-2C****Lowest Channel (5 500 MHz)**

| Frequency<br>(MHz)   | Pol. | Reading<br>(dB( $\mu$ V)) | Ant. Factor<br>(dB) | Amp.+Cable<br>(dB) | DCCF<br>(dB) | Result<br>(dB( $\mu$ V/m)) | Limit<br>(dB( $\mu$ V/m)) | Margin<br>(dB) |
|--|------|---------------------------|---------------------|--------------------|--------------|----------------------------|---------------------------|----------------|
| <b>Peak data</b>   |      |                           |                     |                    |              |                            |                           |                |
| 5 459.81 <sup>1)</sup>   | V    | 41.97                     | 34.45               | -27.35             | -            | 49.07                      | 74.00                     | 24.93          |
| 11 000.45 <sup>1)</sup>  | H    | 56.28                     | 37.70               | -51.38             | -            | 42.60                      | 74.00                     | 31.40          |
| <b>Average Data</b>  |      |                           |                     |                    |              |                            |                           |                |
| No spurious emissions were detected within 20 dB of the limit. |      |                           |                     |                    |              |                            |                           |                |

**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**

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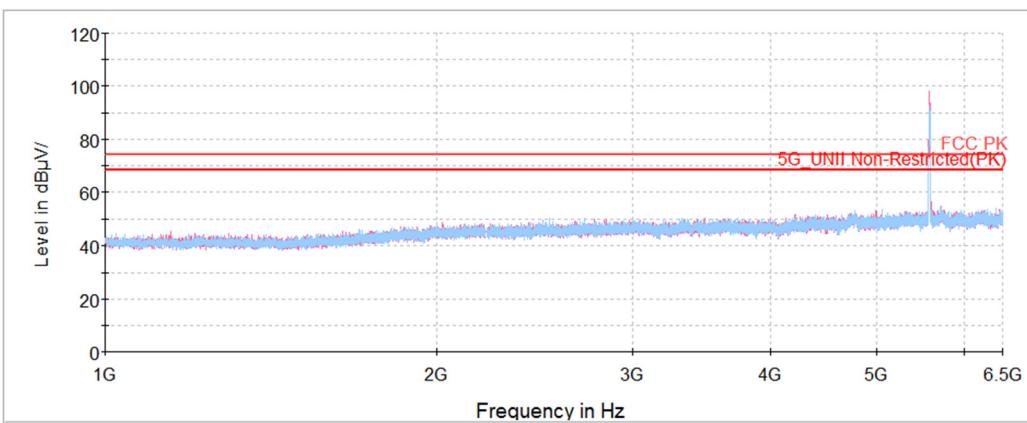
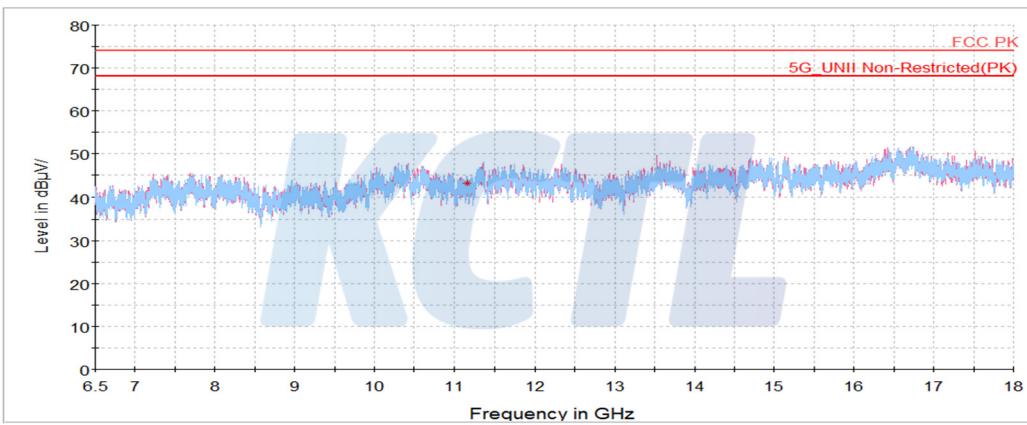
Report No.:

KR20-SRF0044

Page (141) of (203)

**Middle Channel (5 580 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>   |       |          |             |            |      |            |            |        |
| 11 160.38 <sup>1)</sup>  | V     | 55.61    | 37.86       | -50.34     | -    | 43.13      | 74.00      | 30.87  |
| <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**