

**KCTL Inc.**

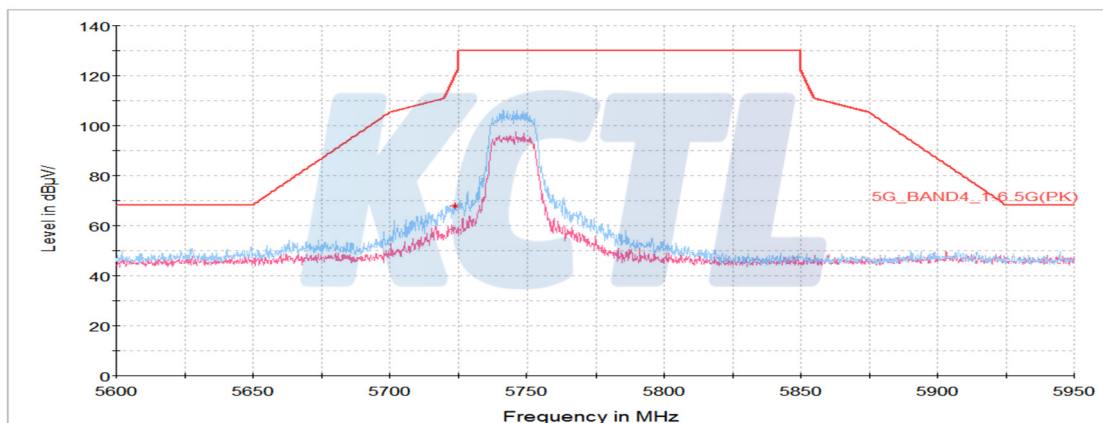
65, Sinwon-ro, Yeongtong-gu,  
Suwon-si, Gyeonggi-do, 16677, Korea  
TEL: 82-31-285-0894 FAX: 82-505-299-8311  
[www.kctl.co.kr](http://www.kctl.co.kr)

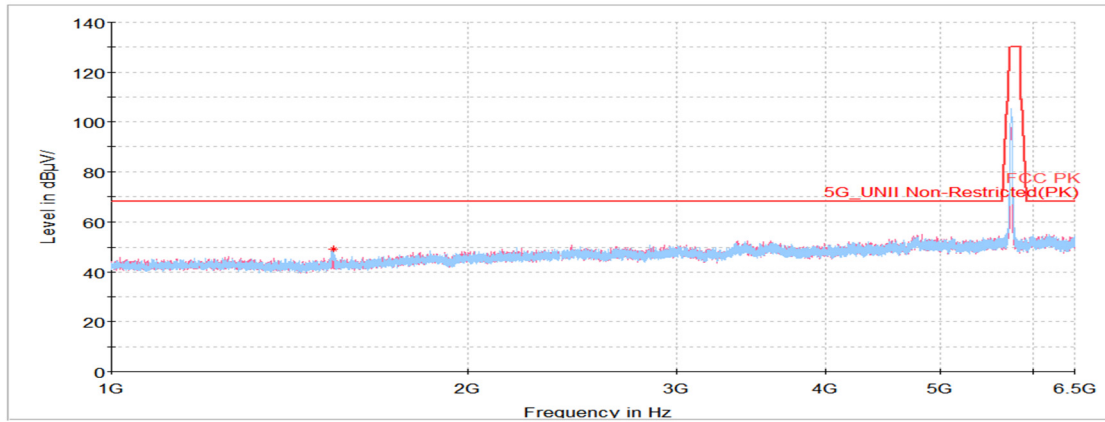
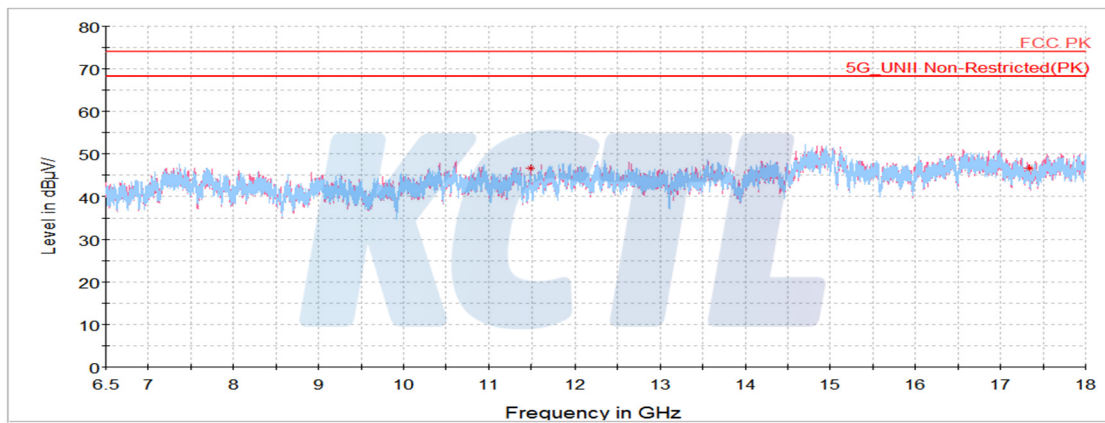
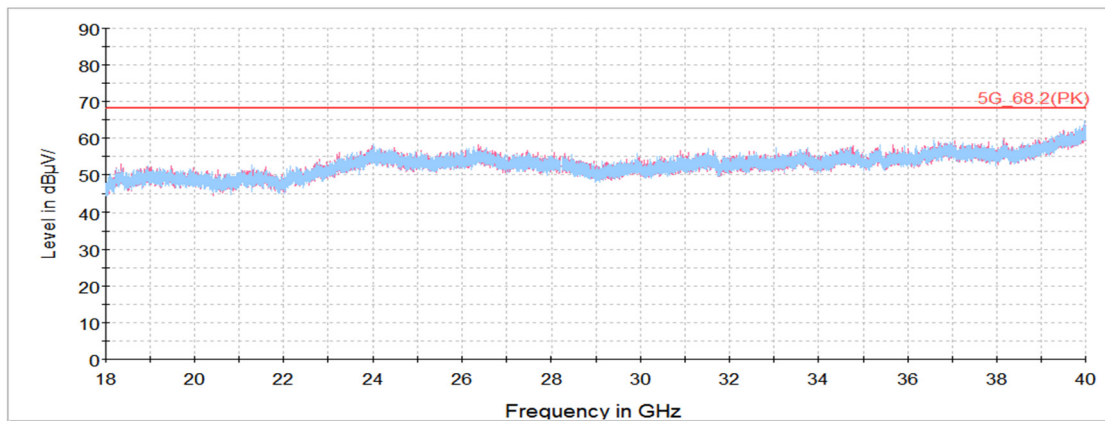
Report No.:  
KR20-SRF0016-A

Page (189) of (219)

**KCTL****802.11a UNII-3****Lowest Channel (5 745 MHz)**

| Frequency                                                      | Reading        | Pol.  | Ant. Factor | Amp.+Cable | DCCF | Result           | Limit            | Margin |
|----------------------------------------------------------------|----------------|-------|-------------|------------|------|------------------|------------------|--------|
| (MHz)                                                          | (dB( $\mu$ V)) | (V/H) | (dB)        | (dB)       | (dB) | (dB( $\mu$ V/m)) | (dB( $\mu$ V/m)) | (dB)   |
| <b>Peak data</b>                                               |                |       |             |            |      |                  |                  |        |
| 1 540.72 <sup>1)</sup>                                         | 71.14          | H     | 28.25       | -50.05     | -    | 49.34            | 74.00            | 24.66  |
| 5 723.81                                                       | 76.94          | H     | 35.07       | -44.36     | -    | 67.65            | 119.49           | 51.84  |
| 11 492.44 <sup>1)</sup>                                        | 58.73          | V     | 38.00       | -50.06     | -    | 46.67            | 74.00            | 27.33  |
| 17 337.67                                                      | 53.56          | H     | 41.16       | -48.07     | -    | 46.65            | 68.20            | 21.55  |
| <b>Average Data</b>                                            |                |       |             |            |      |                  |                  |        |
| No spurious emissions were detected within 20 dB of the limit. |                |       |             |            |      |                  |                  |        |

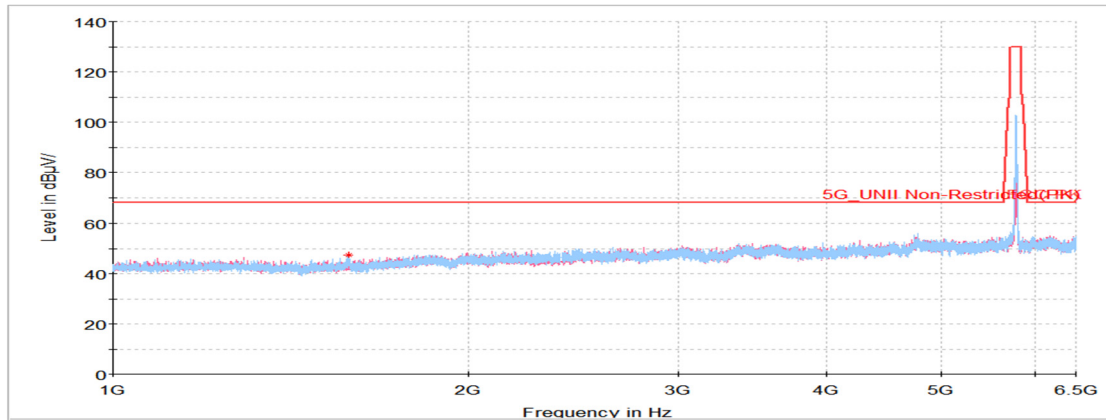
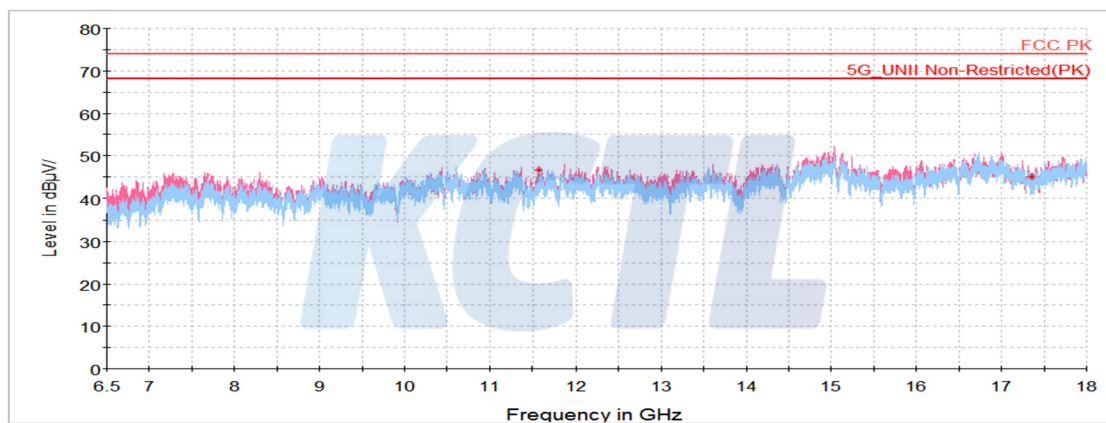
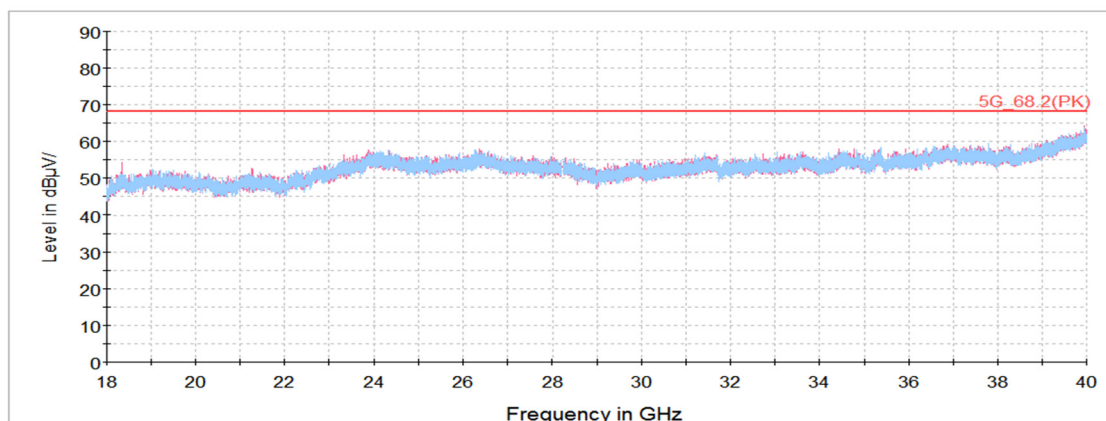
**Horizontal/Vertical for Band-edge**

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

**Middle Channel (5 785 MHz)**

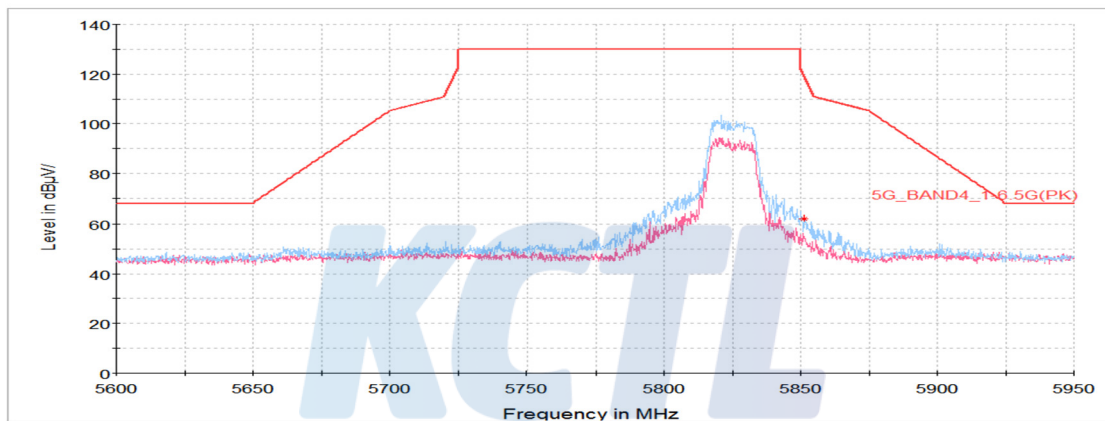
| Frequency                                                      | Reading        | Pol.  | Ant. Factor | Amp.+Cable | DCCF | Result           | Limit            | Margin |
|----------------------------------------------------------------|----------------|-------|-------------|------------|------|------------------|------------------|--------|
| (MHz)                                                          | (dB( $\mu$ V)) | (V/H) | (dB)        | (dB)       | (dB) | (dB( $\mu$ V/m)) | (dB( $\mu$ V/m)) | (dB)   |
| <b>Peak data</b>                                               |                |       |             |            |      |                  |                  |        |
| 1 582.48 <sup>1)</sup>                                         | 68.84          | H     | 28.51       | -50.09     | -    | 47.26            | 74.00            | 26.74  |
| 11 571.50 <sup>1)</sup>                                        | 58.63          | V     | 38.09       | -50.10     | -    | 46.62            | 74.00            | 27.38  |
| 17 357.80                                                      | 52.01          | V     | 41.16       | -48.14     | -    | 45.03            | 68.20            | 23.17  |
| <b>Average Data</b>                                            |                |       |             |            |      |                  |                  |        |
| No spurious emissions were detected within 20 dB of the limit. |                |       |             |            |      |                  |                  |        |

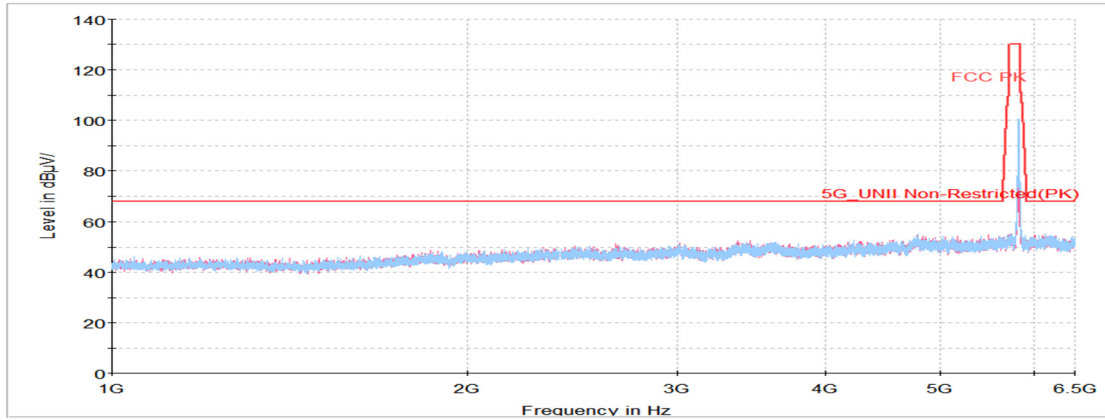
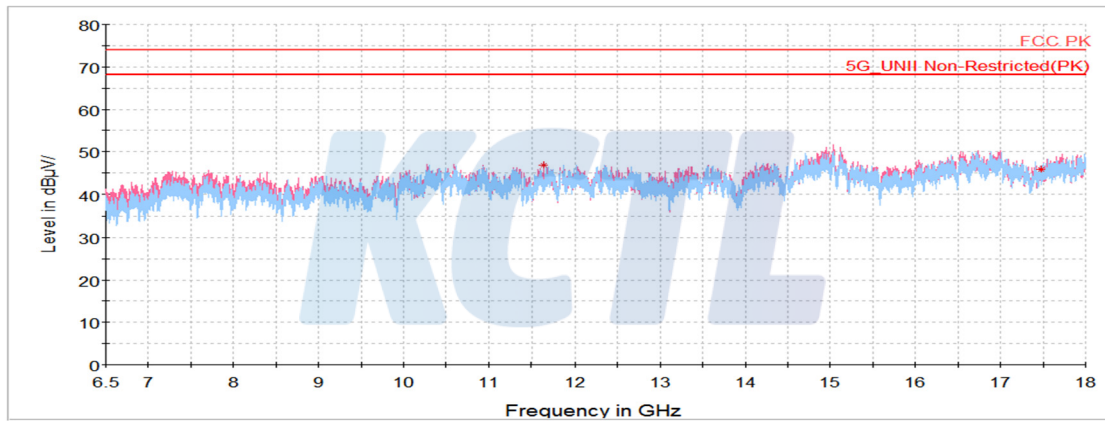
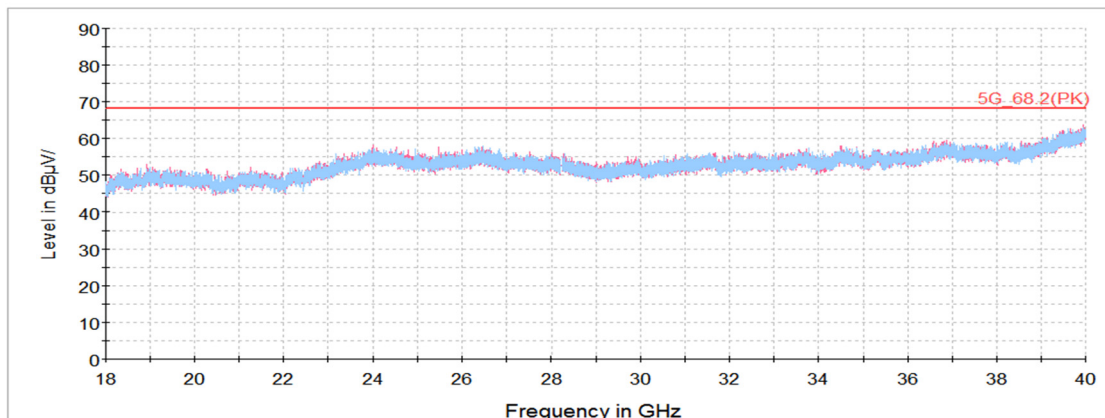


**Horizontal/Vertical for 1 GHz ~ 6.5 GHz****Horizontal/Vertical for 6.5 GHz ~ 18 GHz****Horizontal/Vertical for 18 GHz ~ 40 GHz**

**Highest Channel (5 825 MHz)**

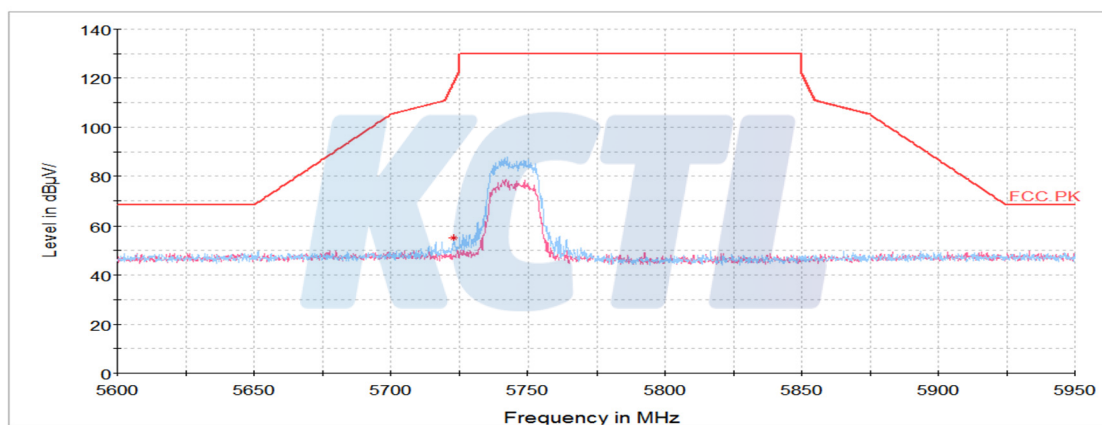
| Frequency                                                      | Reading        | Pol.  | Ant. Factor | Amp.+Cable | DCCF | Result           | Limit            | Margin |
|----------------------------------------------------------------|----------------|-------|-------------|------------|------|------------------|------------------|--------|
| (MHz)                                                          | (dB( $\mu$ V)) | (V/H) | (dB)        | (dB)       | (dB) | (dB( $\mu$ V/m)) | (dB( $\mu$ V/m)) | (dB)   |
| <b>Peak data</b>                                               |                |       |             |            |      |                  |                  |        |
| 5 851.34                                                       | 53.54          | H     | 35.22       | -26.67     | -    | 62.09            | 119.14           | 57.05  |
| 11 650.56 <sup>1)</sup>                                        | 58.78          | V     | 38.18       | -50.15     | -    | 46.81            | 74.00            | 27.19  |
| 17 476.75                                                      | 53.30          | V     | 41.11       | -48.55     | -    | 45.86            | 68.20            | 22.34  |
| <b>Average Data</b>                                            |                |       |             |            |      |                  |                  |        |
| No spurious emissions were detected within 20 dB of the limit. |                |       |             |            |      |                  |                  |        |

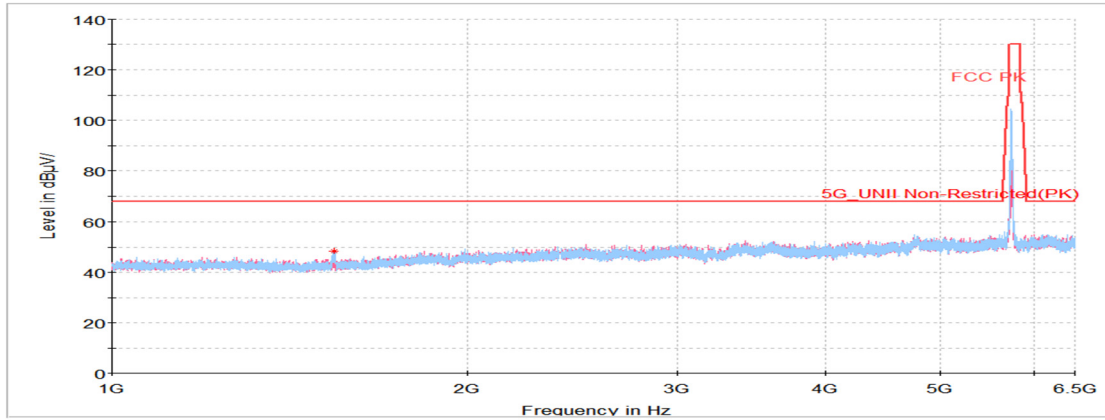
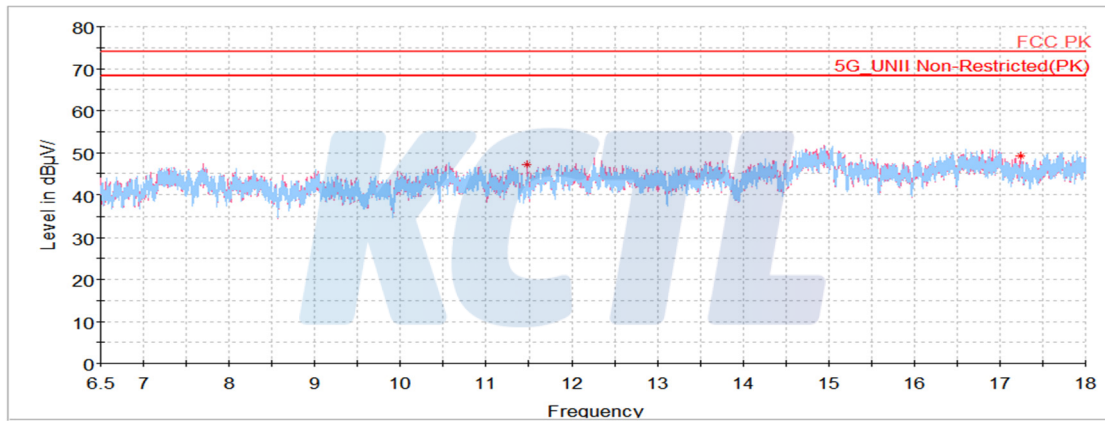
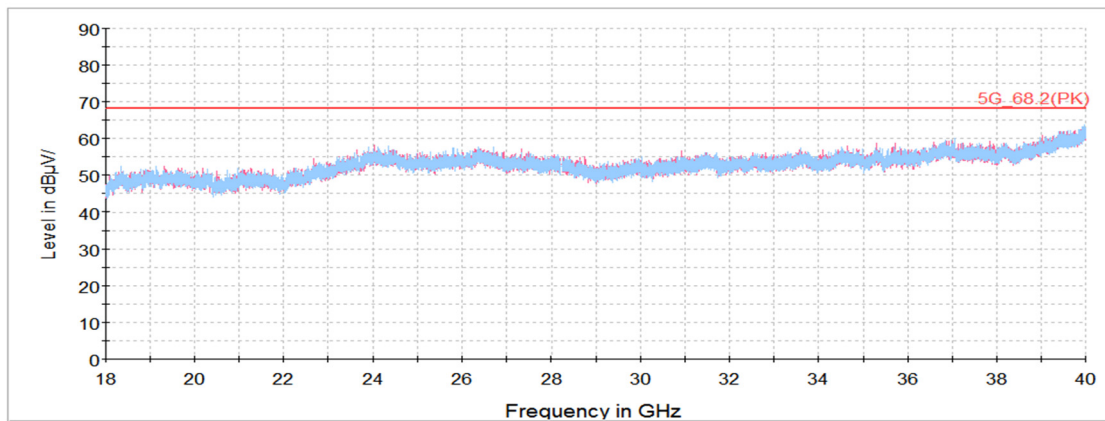
**Horizontal/Vertical for Band-edge**

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

**802.11n HT20 UNII-3****Lowest Channel (5 745 MHz)**

| Frequency                                                      | Reading        | Pol.  | Ant. Factor | Amp.+Cable | DCCF | Result           | Limit            | Margin |
|----------------------------------------------------------------|----------------|-------|-------------|------------|------|------------------|------------------|--------|
| (MHz)                                                          | (dB( $\mu$ V)) | (V/H) | (dB)        | (dB)       | (dB) | (dB( $\mu$ V/m)) | (dB( $\mu$ V/m)) | (dB)   |
| <b>Peak data</b>                                               |                |       |             |            |      |                  |                  |        |
| 1 540.20 <sup>1)</sup>                                         | 70.10          | H     | 28.25       | -50.05     | -    | 48.30            | 74.00            | 25.70  |
| 5 722.95                                                       | 64.64          | H     | 35.07       | -44.35     | -    | 55.36            | 117.53           | 62.17  |
| 11 489.20 <sup>1)</sup>                                        | 59.20          | V     | 37.99       | -50.07     | -    | 47.12            | 74.00            | 26.88  |
| 17 241.72                                                      | 55.81          | V     | 41.20       | -47.74     | -    | 49.27            | 68.20            | 18.93  |
| <b>Average Data</b>                                            |                |       |             |            |      |                  |                  |        |
| No spurious emissions were detected within 20 dB of the limit. |                |       |             |            |      |                  |                  |        |

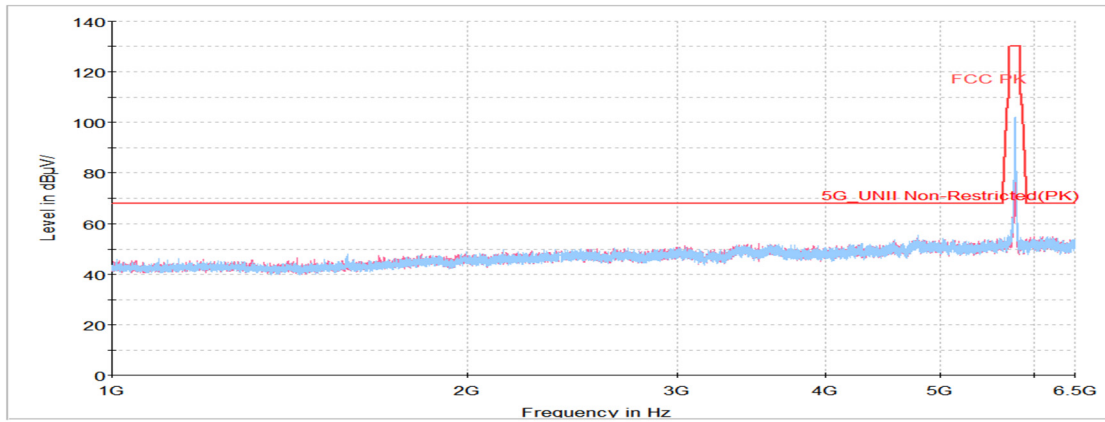
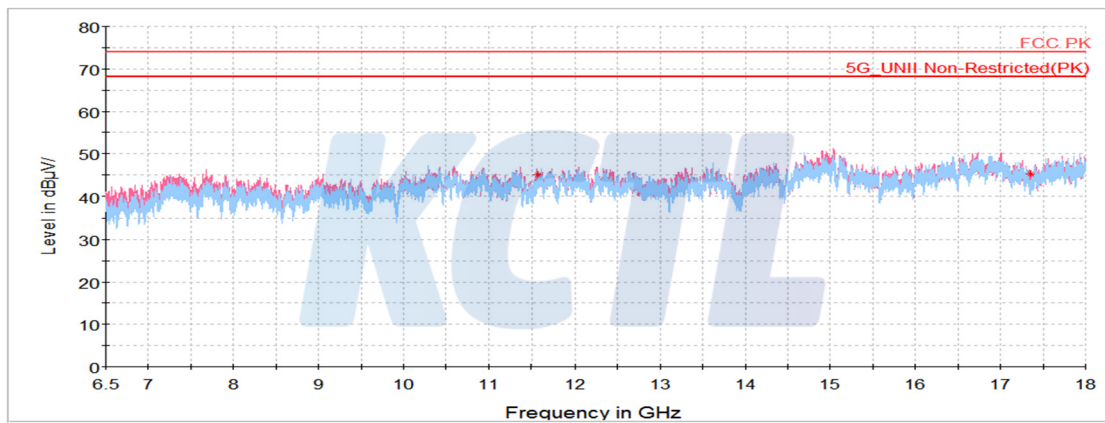
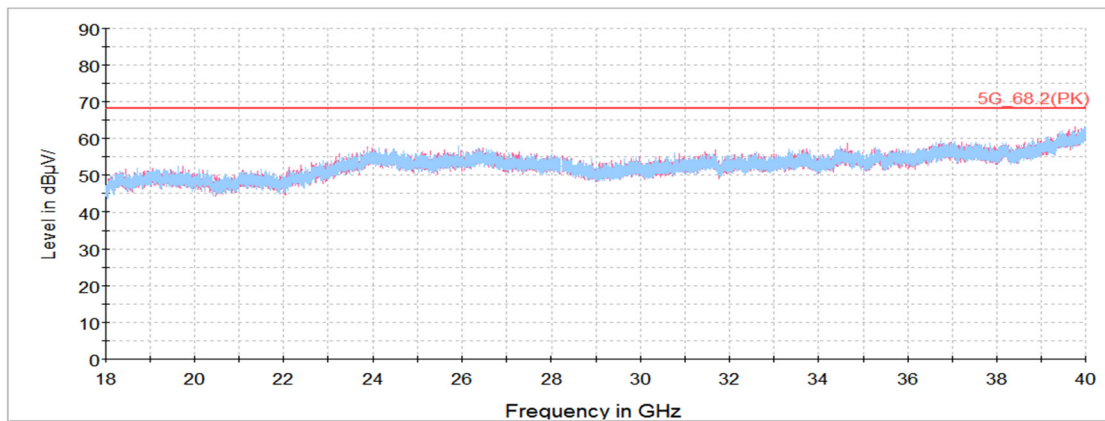
**Horizontal/Vertical for Band-edge**

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

### Middle Channel (5 785 MHz)

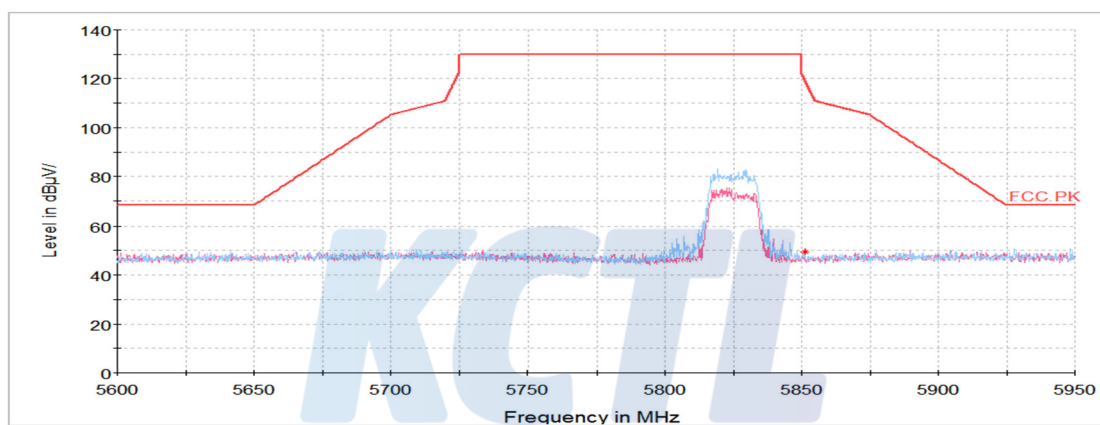
| Frequency                                                      | Reading  | Pol.  | Ant. Factor | Amp.+Cable | DCCF | Result     | Limit      | Margin |
|----------------------------------------------------------------|----------|-------|-------------|------------|------|------------|------------|--------|
| (MHz)                                                          | (dB(μV)) | (V/H) | (dB)        | (dB)       | (dB) | (dB(μV/m)) | (dB(μV/m)) | (dB)   |
| <b>Peak data</b>                                               |          |       |             |            |      |            |            |        |
| 11 571.50 <sup>1)</sup>                                        | 56.95    | V     | 38.09       | -50.10     | -    | 44.94      | 74.00      | 29.06  |
| 17 354.20                                                      | 52.10    | V     | 41.16       | -48.13     | -    | 45.13      | 68.20      | 23.07  |
| <b>Average Data</b>                                            |          |       |             |            |      |            |            |        |
| No spurious emissions were detected within 20 dB of the limit. |          |       |             |            |      |            |            |        |

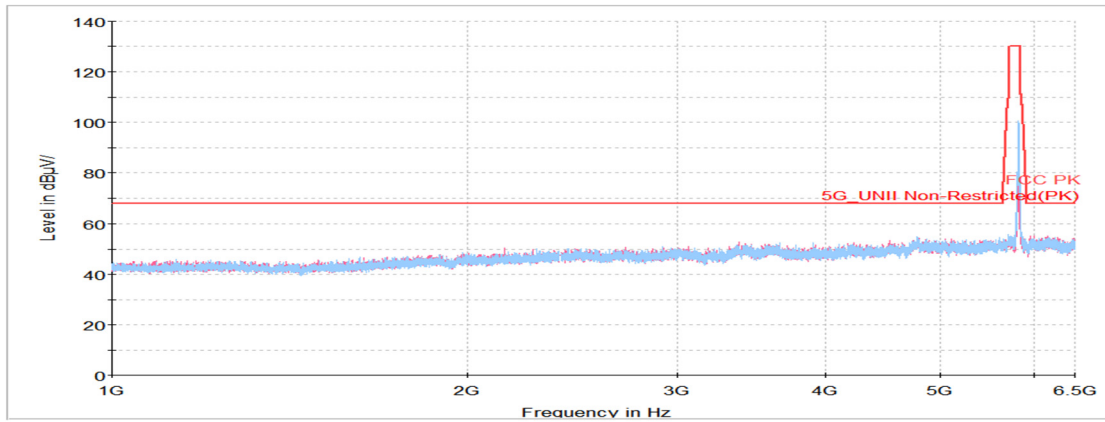
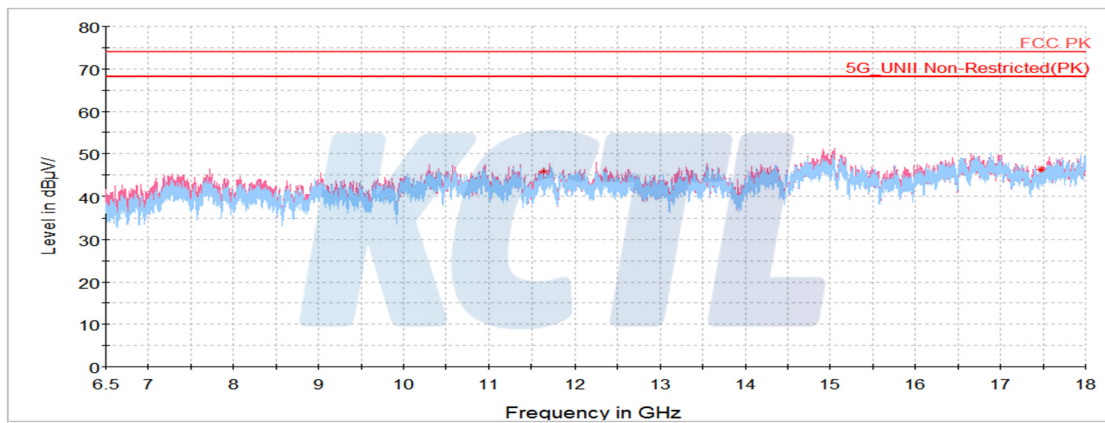
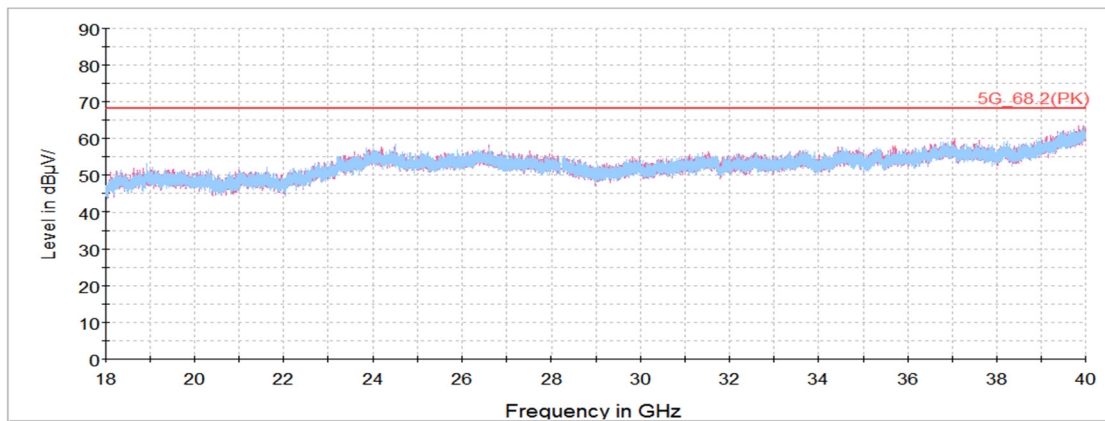


**Horizontal/Vertical for 1 GHz ~ 6.5 GHz****Horizontal/Vertical for 6.5 GHz ~ 18 GHz****Horizontal/Vertical for 18 GHz ~ 40 GHz**

**Highest Channel (5 825 MHz)**

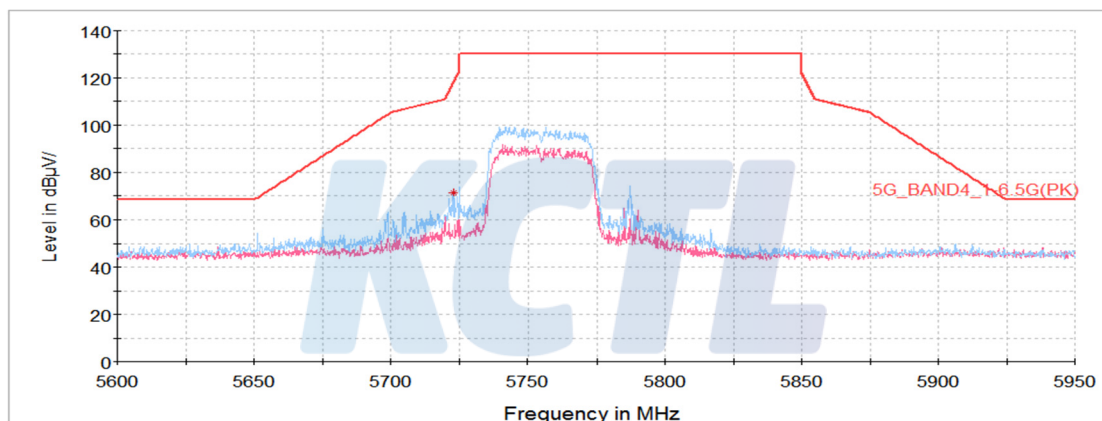
| Frequency                                                      | Reading        | Pol.  | Ant. Factor | Amp.+Cable | DCCF | Result           | Limit            | Margin |
|----------------------------------------------------------------|----------------|-------|-------------|------------|------|------------------|------------------|--------|
| (MHz)                                                          | (dB( $\mu$ V)) | (V/H) | (dB)        | (dB)       | (dB) | (dB( $\mu$ V/m)) | (dB( $\mu$ V/m)) | (dB)   |
| <b>Peak data</b>                                               |                |       |             |            |      |                  |                  |        |
| 5 851.17                                                       | 40.88          | H     | 35.22       | -26.67     | -    | 49.43            | 119.53           | 70.10  |
| 11 648.77 <sup>1)</sup>                                        | 57.87          | V     | 38.18       | -50.15     | -    | 45.90            | 74.00            | 28.10  |
| 17 474.59                                                      | 53.74          | V     | 41.11       | -48.54     | -    | 46.31            | 68.20            | 21.89  |
| <b>Average Data</b>                                            |                |       |             |            |      |                  |                  |        |
| No spurious emissions were detected within 20 dB of the limit. |                |       |             |            |      |                  |                  |        |

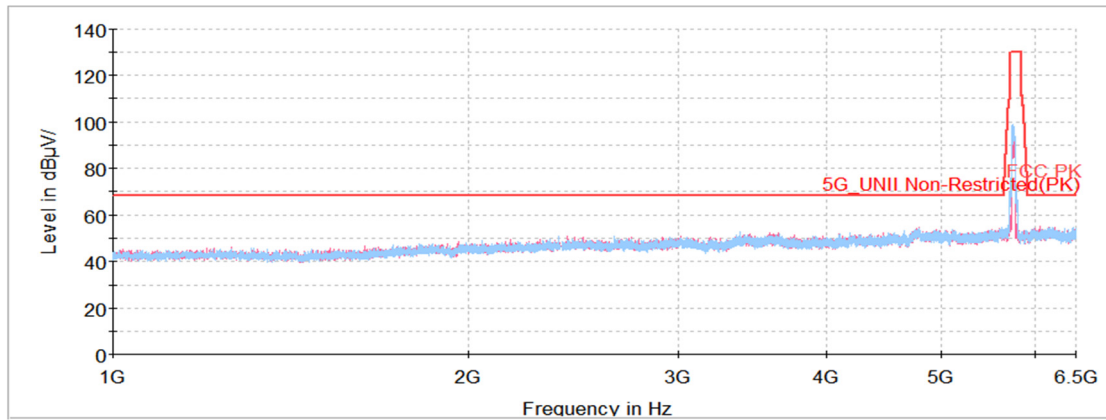
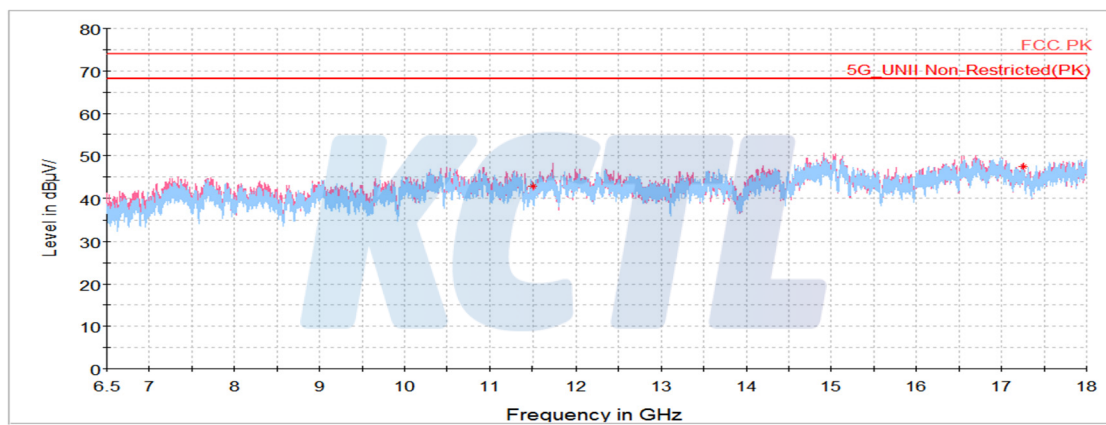
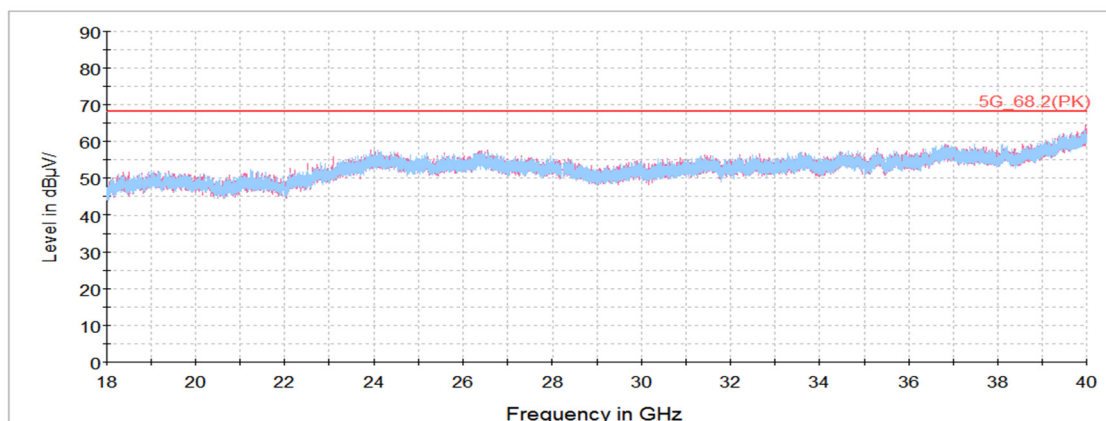
**Horizontal/Vertical for Band-edge**

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

**802.11n HT40 UNII-3****Lowest Channel (5 755 MHz)**

| Frequency                                                      | Reading        | Pol.  | Ant. Factor | Amp.+Cable | DCCF | Result           | Limit            | Margin |
|----------------------------------------------------------------|----------------|-------|-------------|------------|------|------------------|------------------|--------|
| (MHz)                                                          | (dB( $\mu$ V)) | (V/H) | (dB)        | (dB)       | (dB) | (dB( $\mu$ V/m)) | (dB( $\mu$ V/m)) | (dB)   |
| <b>Peak data</b>                                               |                |       |             |            |      |                  |                  |        |
| 5 723.13                                                       | 61.97          | H     | 35.07       | -25.89     | -    | 71.15            | 117.93           | 46.78  |
| 11 510.41 <sup>1)</sup>                                        | 54.77          | V     | 38.01       | -50.06     | -    | 42.72            | 74.00            | 31.28  |
| 17 265.44                                                      | 54.16          | H     | 41.19       | -47.82     | -    | 47.53            | 68.20            | 20.67  |
| <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**

**Highest Channel (5 795 MHz)**

| Frequency                                                      | Reading        | Pol.  | Ant. Factor | Amp.+Cable | DCCF | Result           | Limit            | Margin |
|----------------------------------------------------------------|----------------|-------|-------------|------------|------|------------------|------------------|--------|
| (MHz)                                                          | (dB( $\mu$ V)) | (V/H) | (dB)        | (dB)       | (dB) | (dB( $\mu$ V/m)) | (dB( $\mu$ V/m)) | (dB)   |
| <b>Peak data</b>                                               |                |       |             |            |      |                  |                  |        |
| 5 852.72                                                       | 42.90          | H     | 35.22       | -26.66     | -    | 51.46            | 116.00           | 64.54  |
| 11 588.39 <sup>1)</sup>                                        | 58.43          | V     | 38.11       | -50.11     | -    | 46.43            | 74.00            | 27.57  |
| 17 385.47                                                      | 52.86          | V     | 41.15       | -48.24     | -    | 45.77            | 68.20            | 22.43  |
| <b>Average Data</b>                                            |                |       |             |            |      |                  |                  |        |
| No spurious emissions were detected within 20 dB of the limit. |                |       |             |            |      |                  |                  |        |

**Horizontal/Vertical for Band-edge**