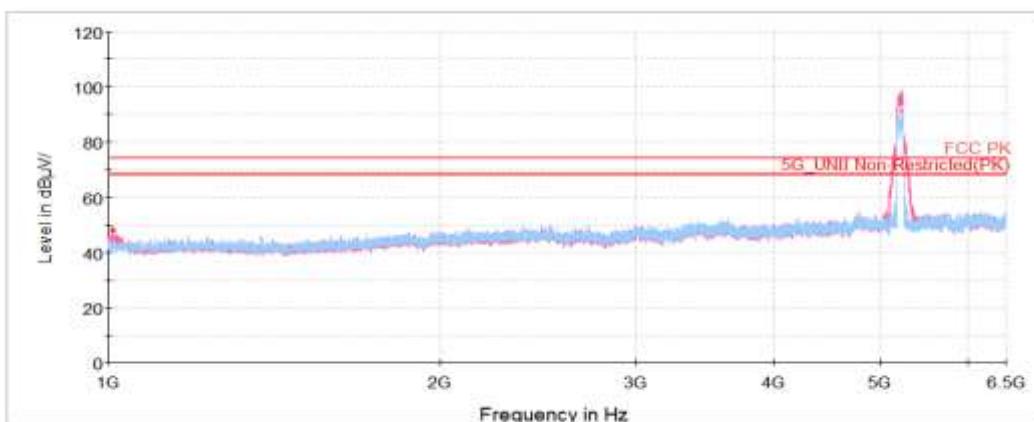
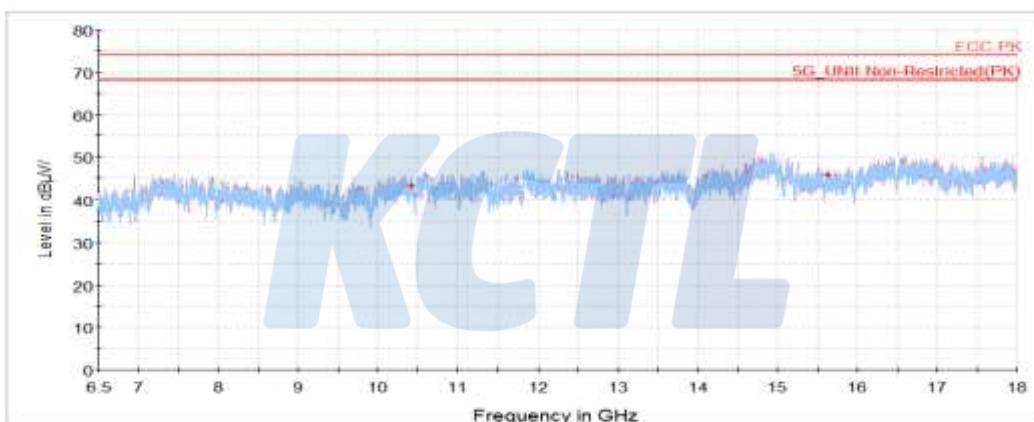
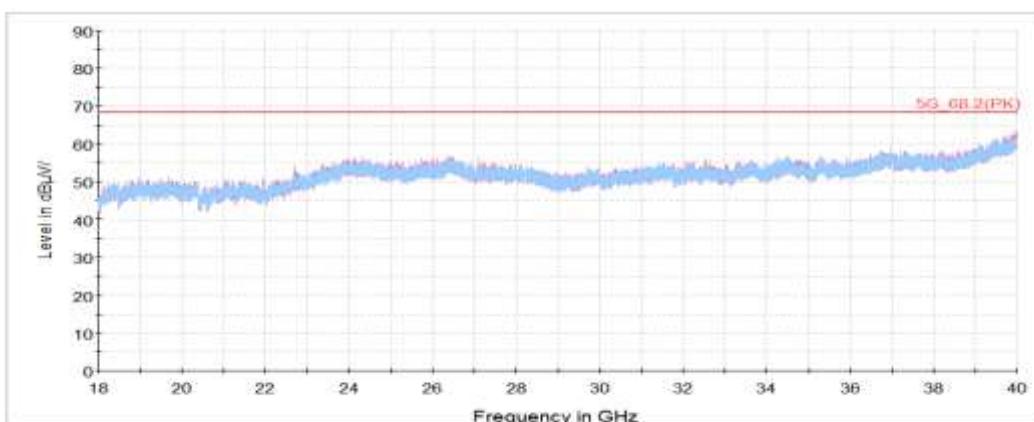


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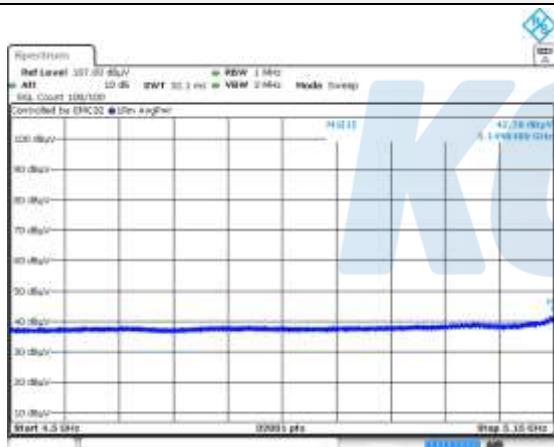
65, Sinwon-ro, Yeongtong-gu,
Suwon-si, Gyeonggi-do, 16677, Korea
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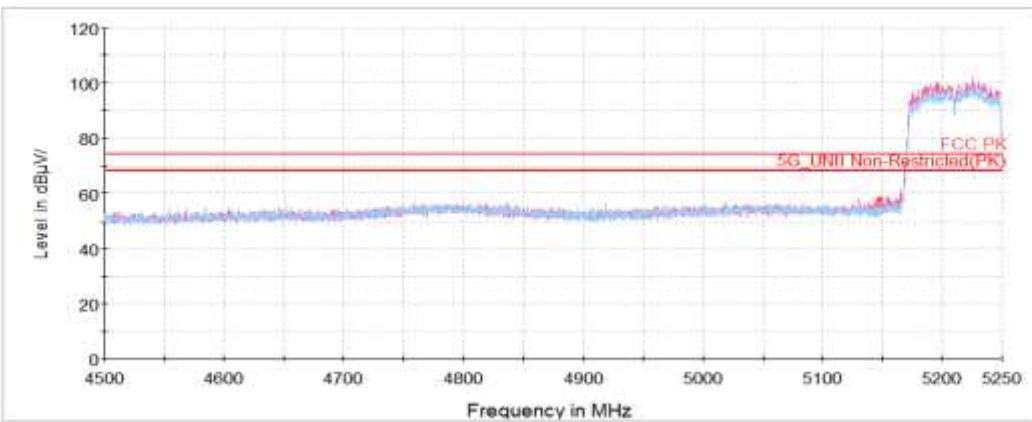
KCTL**Horizontal/Vertical for 1 GHz ~ 6.5 GHz****Horizontal/Vertical for 6.5 GHz ~ 18 GHz****Horizontal/Vertical for 18 GHz ~ 40 GHz**

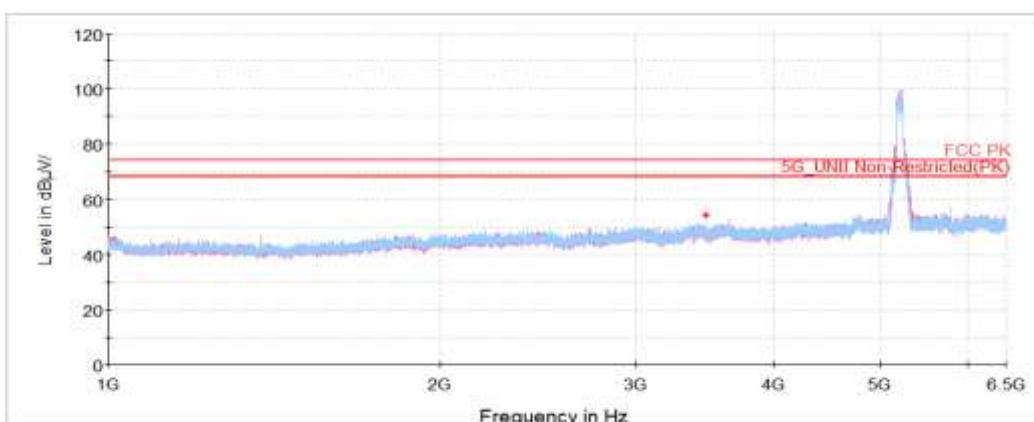
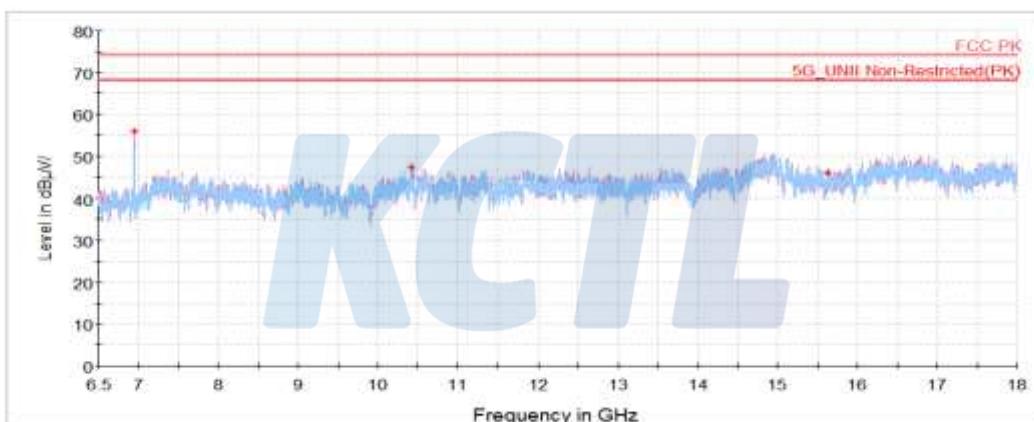
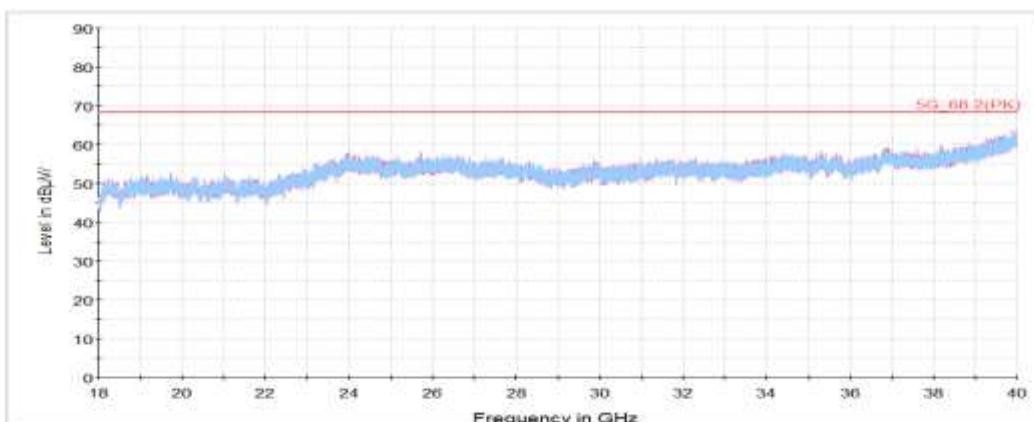
802.11ac VHT80 UNII 1 4TX MIMO**Middle Channel (5 210 MHz)**

| Frequency (MHz) | Pol. | Reading (dB(μ V)) | Antenna Factor (dB) | Amp. + Cable (dB) | DCCF (dB) | Result (dB(μ V/m)) | Limit (dB(μ V/m)) | Margin (dB) |
|-------------------------|------|---------------------------|------------------------|----------------------|--------------|----------------------------|---------------------------|----------------|
| Peak data | | | | | | | | |
| 3 473.00 | H | 68.16 | 32.59 | -46.79 | - | 53.96 | 68.20 | 14.24 |
| 5 149.85 ¹⁾ | V | 50.60 | 34.24 | -27.12 | - | 57.72 | 74.00 | 16.28 |
| 6 946.70 | V | 73.33 | 35.40 | -52.80 | - | 55.93 | 68.20 | 12.27 |
| 10 421.86 | V | 60.01 | 37.32 | -50.01 | - | 47.32 | 68.20 | 20.88 |
| 15 629.20 ¹⁾ | H | 54.68 | 40.03 | -48.62 | - | 46.09 | 74.00 | 27.91 |
| Average Data | | | | | | | | |
| 5 149.85 ¹⁾ | V | 42.78 | 34.24 | -27.12 | 0.27 | 50.17 | 54.00 | 3.83 |

Average data (5 149.85 MHz)

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**

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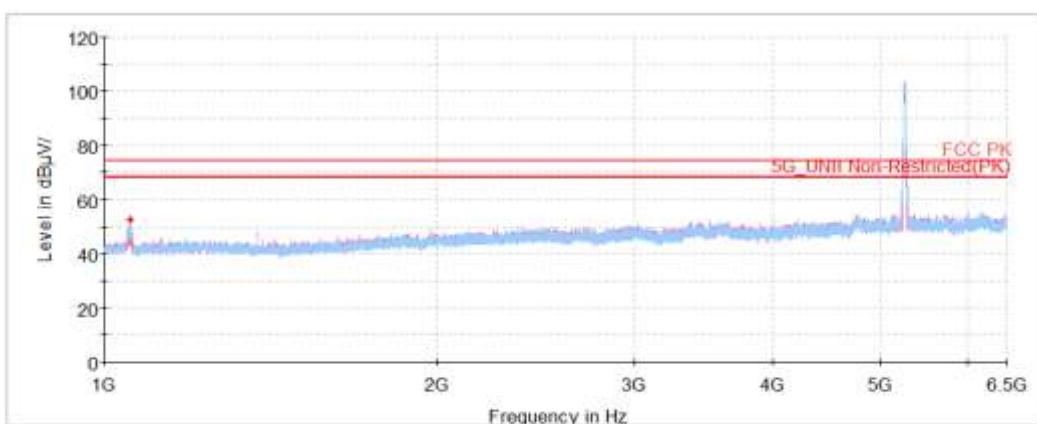
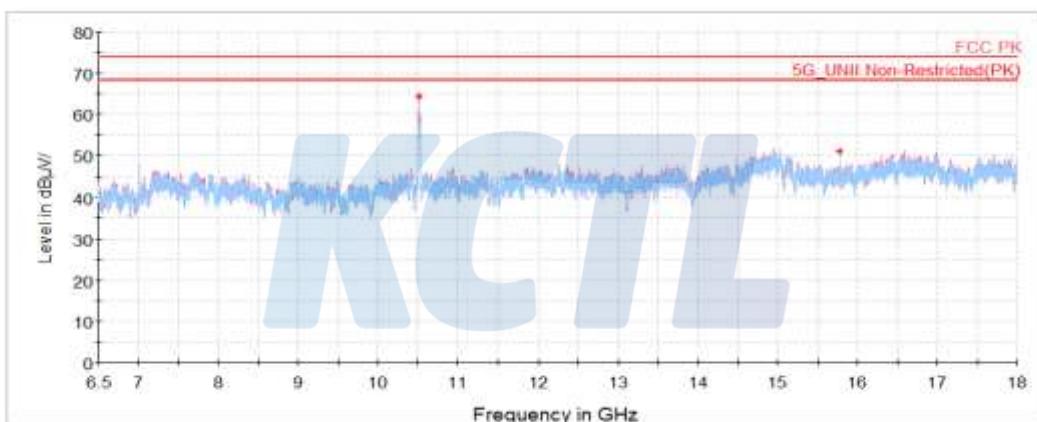
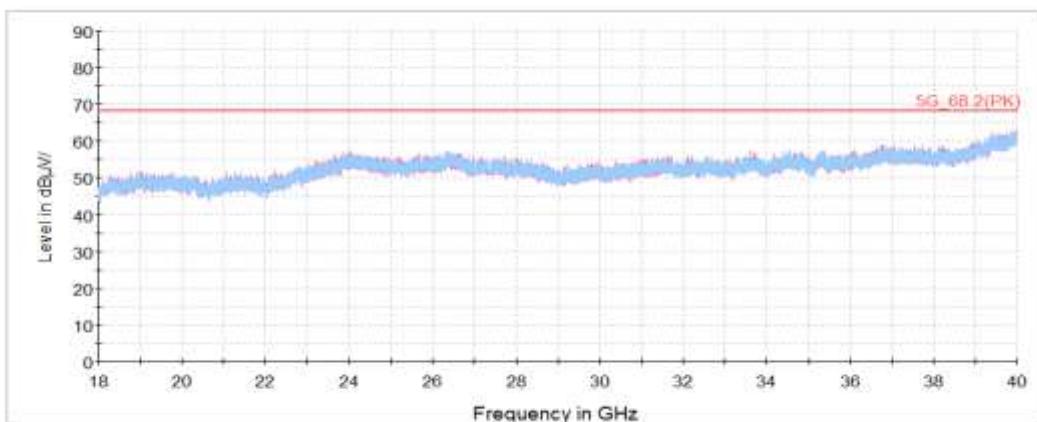
KR20-SRF0030-D

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**802.11a UNII 2A ANT 0****Lowest Channel (5 260 MHz)**

| Frequency (MHz) | Pol. | Reading (dB(μ V)) | Antenna Factor (dB) | Amp. + Cable (dB) | DCCF (dB) | Result (dB(μ V/m)) | Limit (dB(μ V/m)) | Margin (dB) |
|--|------|---------------------------|---------------------------|----------------------|--------------|----------------------------|---------------------------|----------------|
| Peak data | | | | | | | | |
| 10 517.81 | V | 76.71 | 37.41 | -49.69 | - | 64.43 | 68.20 | 3.77 |
| 15 781.58 ¹⁾ | H | 59.53 | 40.06 | -48.70 | - | 50.89 | 74.00 | 23.11 |
| Average Data | | | | | | | | |
| 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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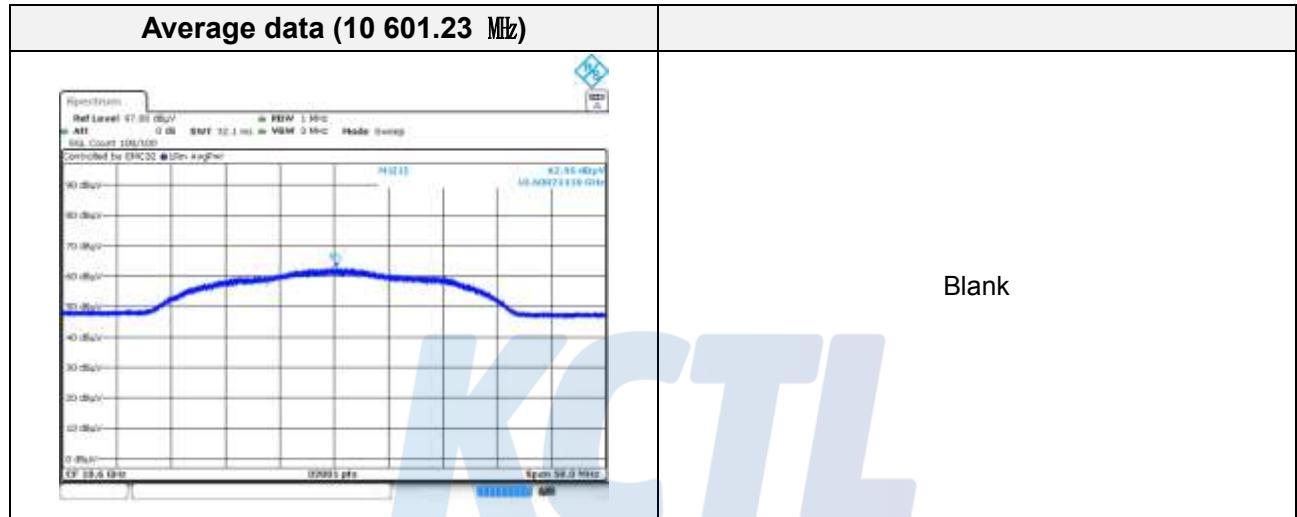
Report No.:

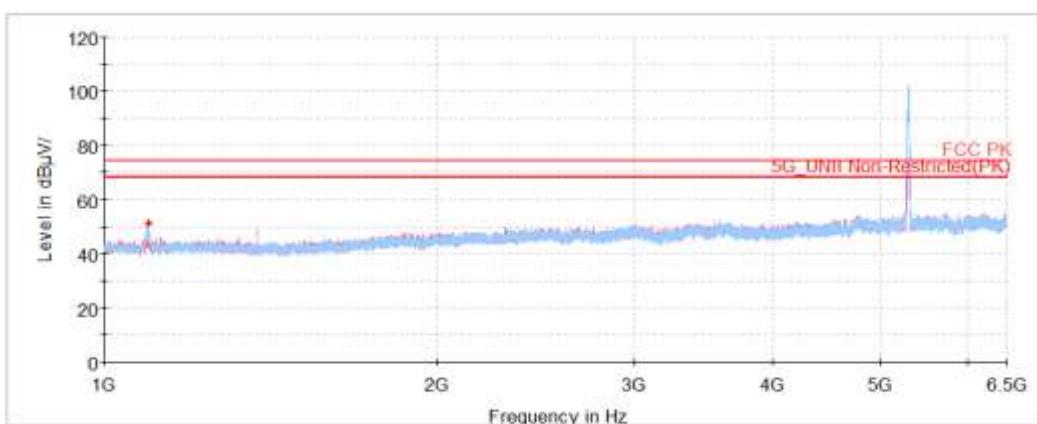
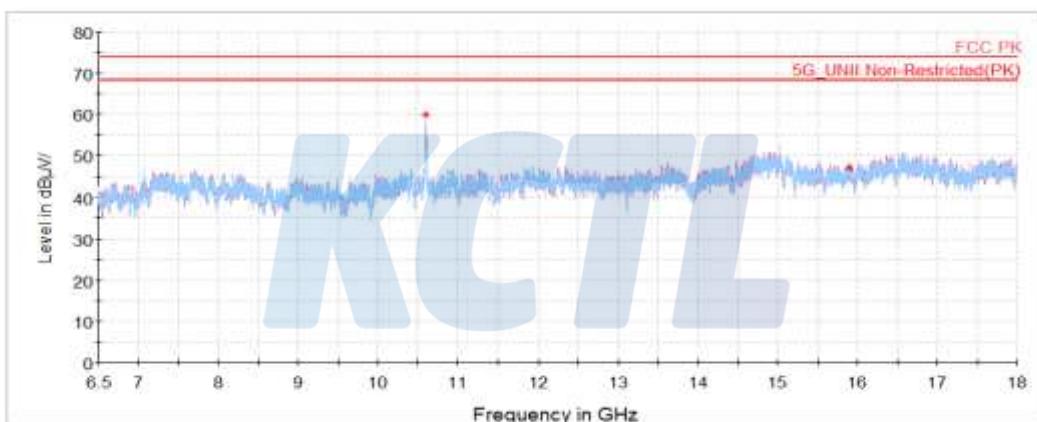
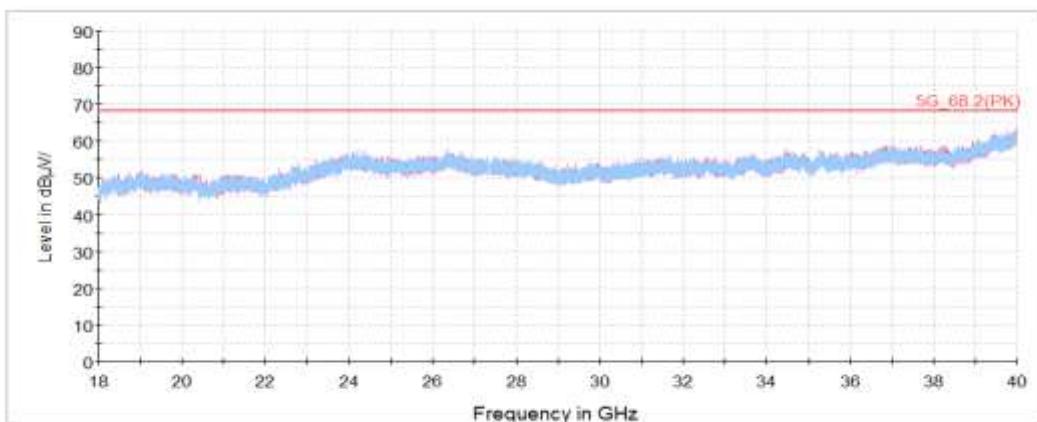
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KCTL**Middle Channel (5 300 MHz)**

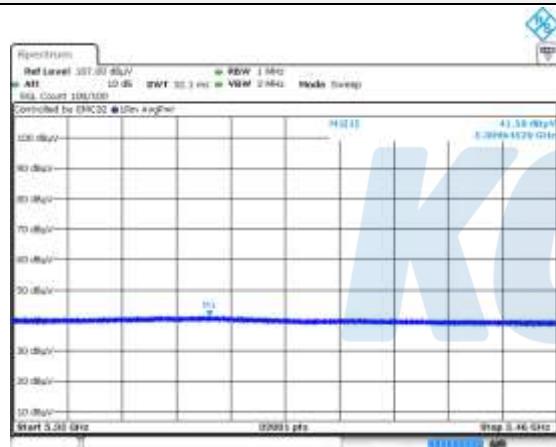
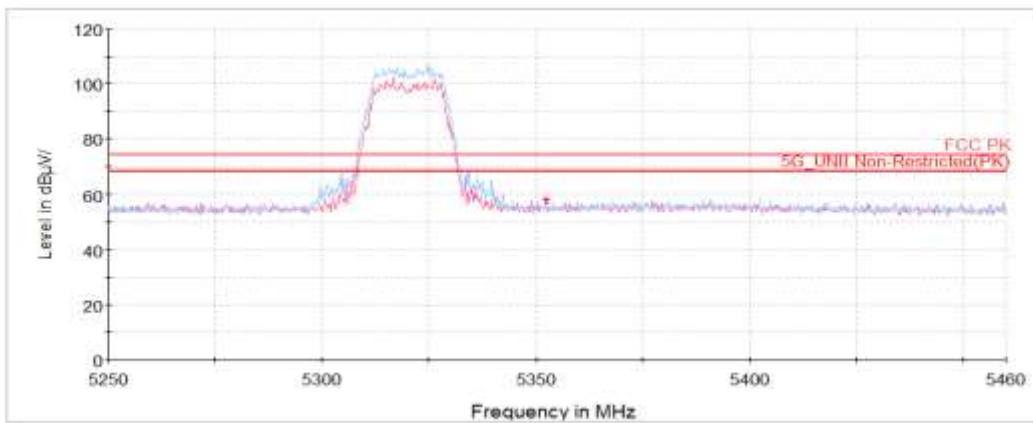
| Frequency (MHz) | Pol. | Reading (dB(μ V)) | Antenna Factor (dB) | Amp. + Cable (dB) | DCCF (dB) | Result (dB(μ V/m)) | Limit (dB(μ V/m)) | Margin (dB) |
|-------------------------|------|---------------------------|------------------------|----------------------|--------------|----------------------------|---------------------------|----------------|
| Peak data | | | | | | | | |
| 10 601.23 ¹⁾ | H | 72.33 | 37.46 | -49.88 | - | 59.91 | 74.00 | 14.09 |
| 15 900.53 ¹⁾ | H | 55.77 | 40.08 | -48.76 | - | 47.09 | 74.00 | 26.91 |
| Average Data | | | | | | | | |
| 10 601.23 ¹⁾ | H | 62.95 | 37.46 | -49.88 | 0.22 | 50.75 | 54.00 | 3.25 |

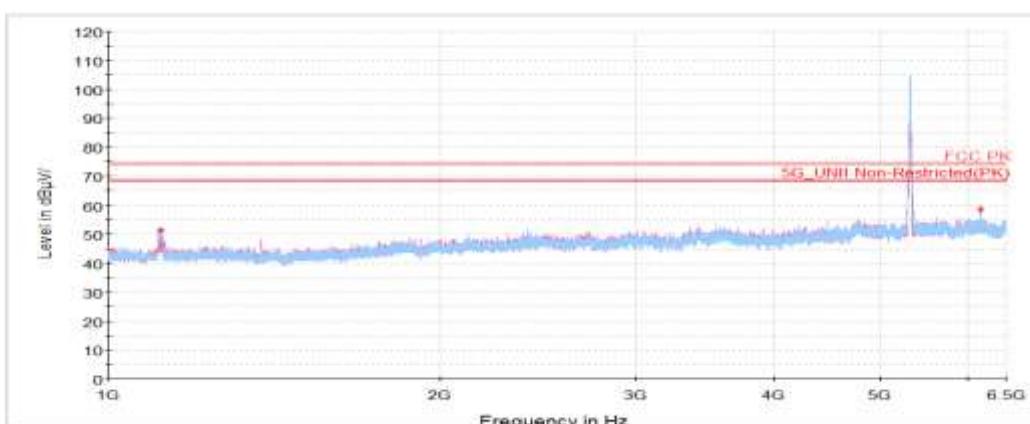
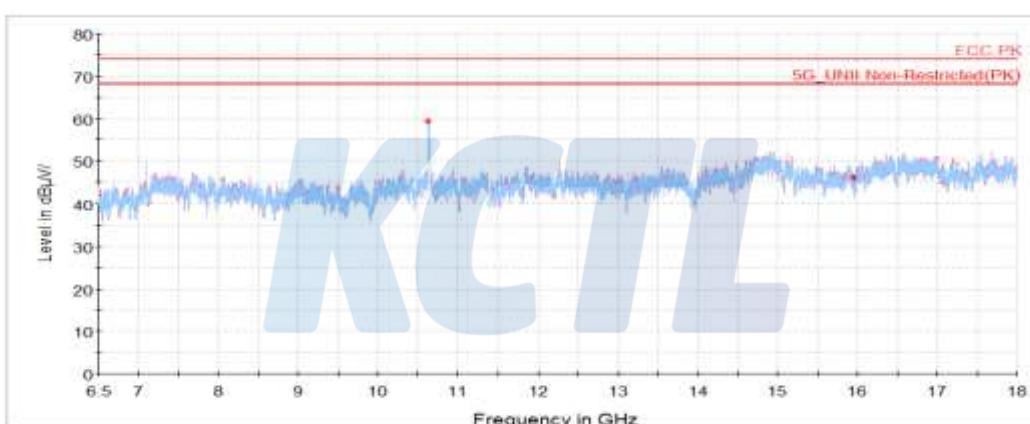
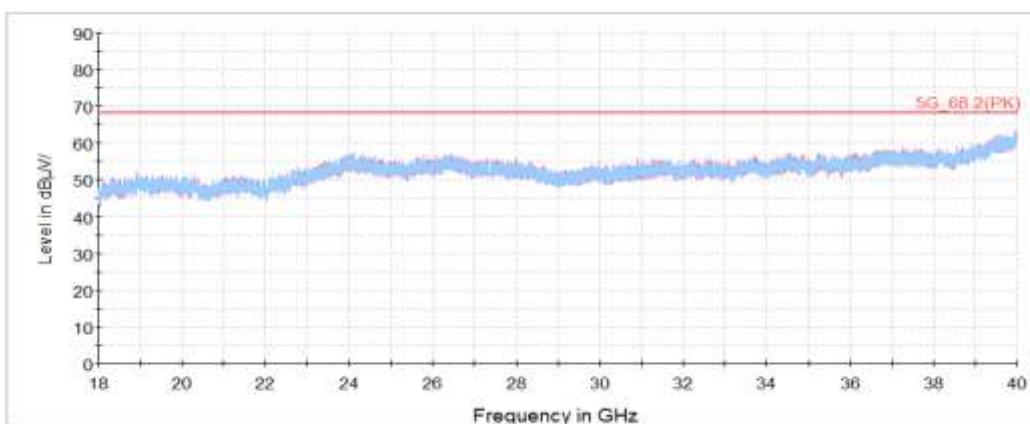
Average data (10 601.23 MHz)

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 (5 320 MHz)

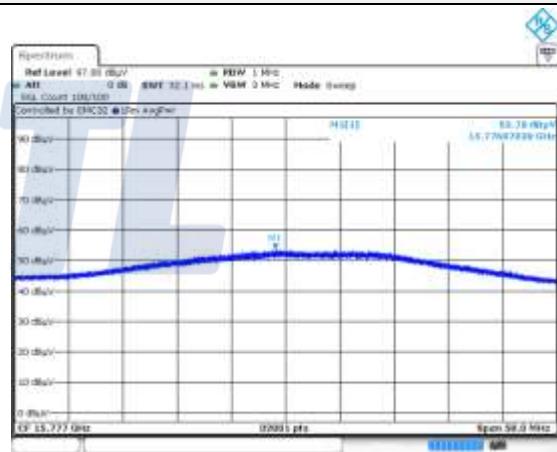
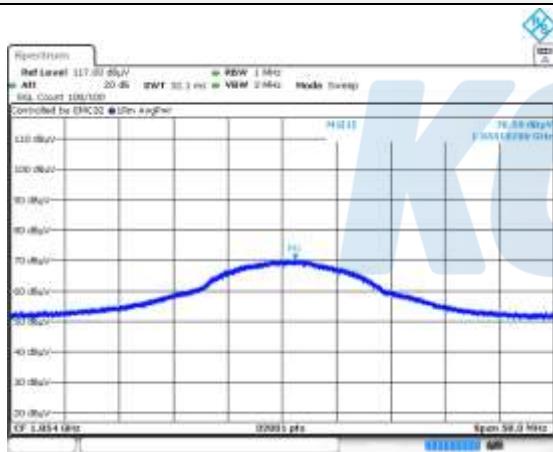
| Frequency | Pol. | Reading | Antenna Factor | Amp. + Cable | DCCF | Result | Limit | Margin |
|-------------------------|-------|----------------|----------------|--------------|------|------------------|------------------|--------|
| (MHz) | (V/H) | (dB(μ V)) | (dB) | (dB) | (dB) | (dB(μ V/m)) | (dB(μ V/m)) | (dB) |
| Peak data | | | | | | | | |
| 6 161.41 | H | 67.88 | 35.40 | -44.84 | - | 58.44 | 74.00 | 15.56 |
| 5 389.65 ¹⁾ | H | 49.82 | 34.62 | -26.74 | - | 57.70 | 74.00 | 16.30 |
| 10 638.28 ¹⁾ | V | 71.83 | 37.48 | -49.96 | - | 59.35 | 74.00 | 14.65 |
| 15 956.23 ¹⁾ | V | 54.72 | 40.09 | -48.79 | - | 46.02 | 74.00 | 27.98 |
| Average Data | | | | | | | | |
| 5 389.65 ¹⁾ | H | 41.58 | 34.62 | -26.74 | 0.22 | 49.68 | 54.00 | 4.32 |
| 10 638.28 ¹⁾ | V | 62.93 | 37.48 | -49.96 | 0.22 | 50.67 | 54.00 | 3.33 |

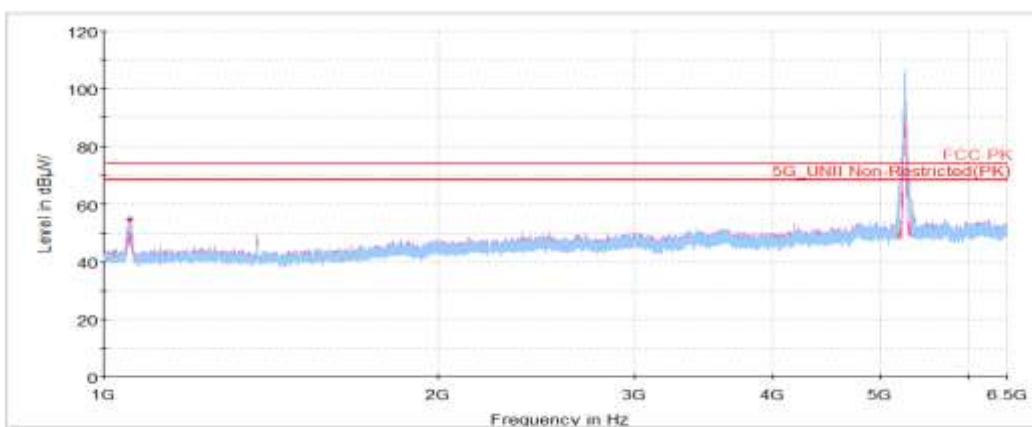
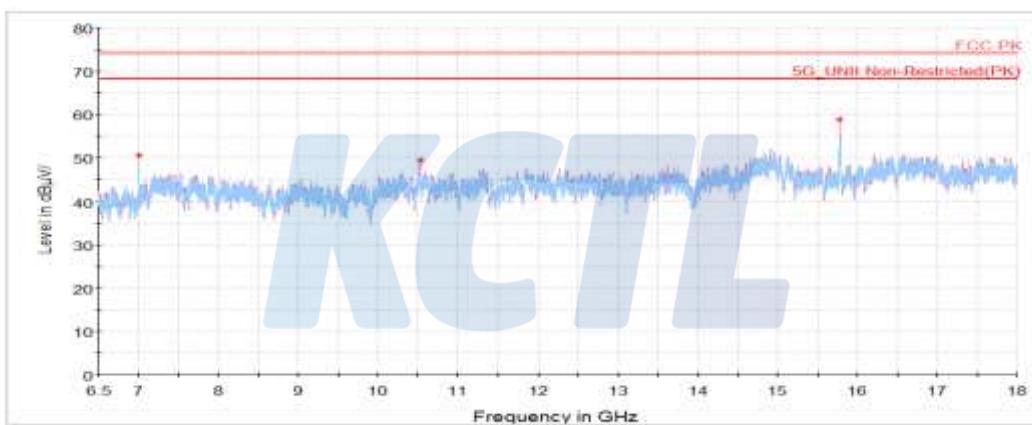
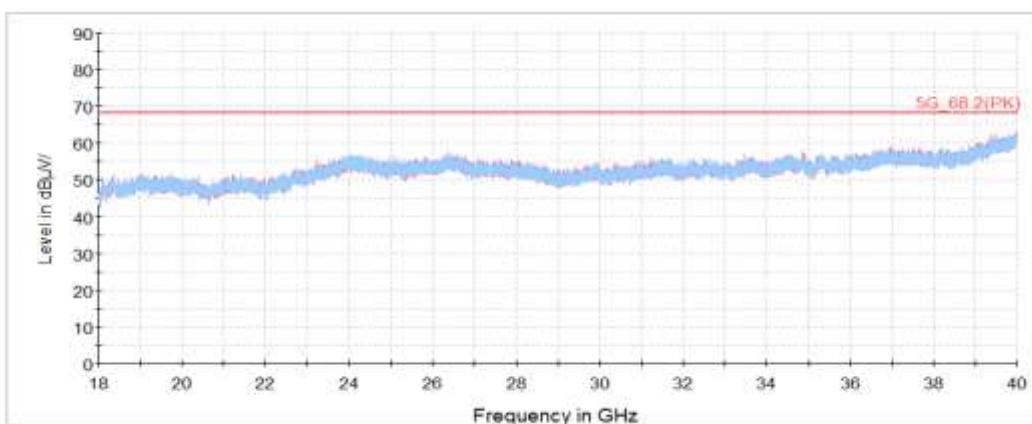
Average data (5 389.65 MHz)**Average data (10 638.28 MHz)****Horizontal/Vertical for Band-edge**

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 2A ANT 1**Lowest Channel (5 260 MHz)**

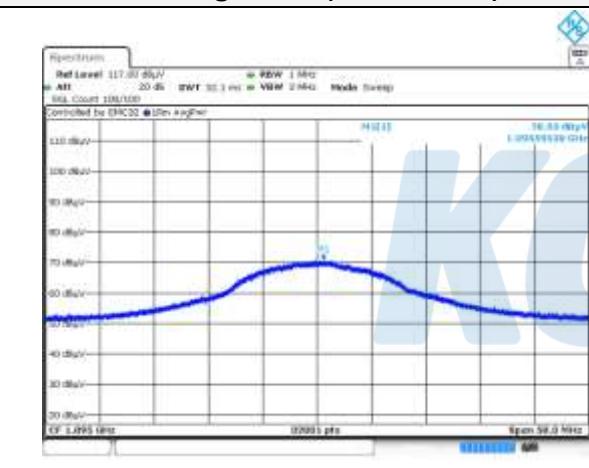
| Frequency (MHz) | Pol. | Reading (dB(μ V)) | Antenna Factor (dB) | Amp. + Cable (dB) | DCCF (dB) | Result (dB(μ V/m)) | Limit (dB(μ V/m)) | Margin (dB) |
|-------------------------|------|---------------------------|------------------------|----------------------|--------------|----------------------------|---------------------------|----------------|
| Peak data | | | | | | | | |
| 1 055.18 ¹⁾ | H | 77.62 | 27.82 | -50.61 | - | 54.83 | 74.00 | 19.17 |
| 7 013.19 | H | 67.69 | 35.40 | -52.62 | - | 50.47 | 68.20 | 17.73 |
| 10 529.31 | V | 61.66 | 37.42 | -49.72 | - | 49.36 | 68.20 | 18.84 |
| 15 776.07 ¹⁾ | V | 67.49 | 40.06 | -48.69 | - | 58.86 | 74.00 | 15.14 |
| Average Data | | | | | | | | |
| 1 055.18 ¹⁾ | H | 70.59 | 27.82 | -50.61 | 0.22 | 48.02 | 54.00 | 5.98 |
| 15 776.07 ¹⁾ | H | 53.78 | 40.06 | -48.69 | 0.22 | 45.37 | 54.00 | 8.63 |

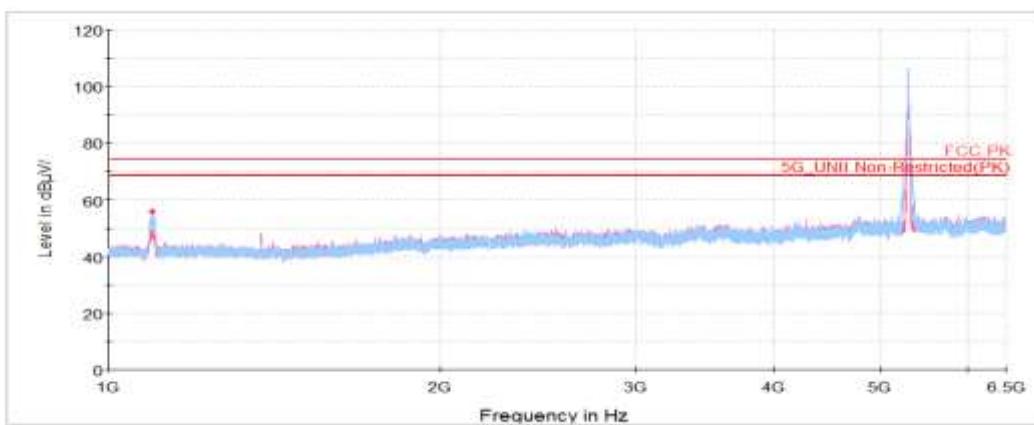
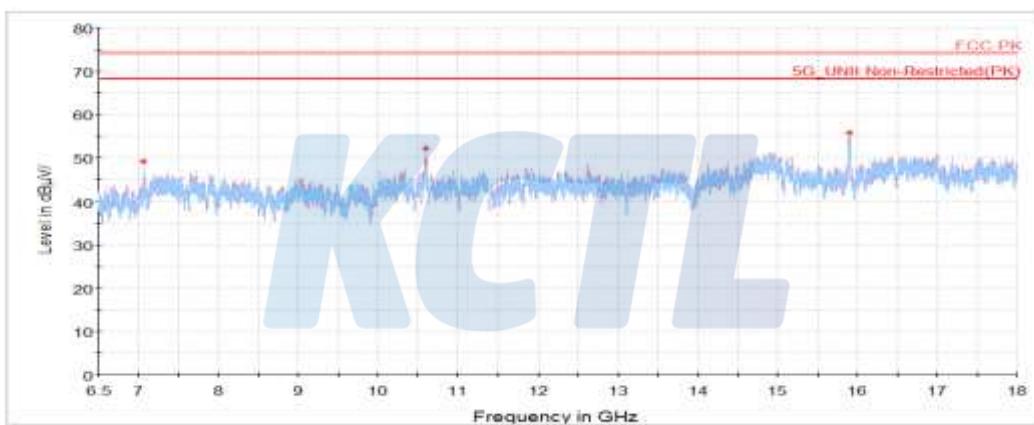
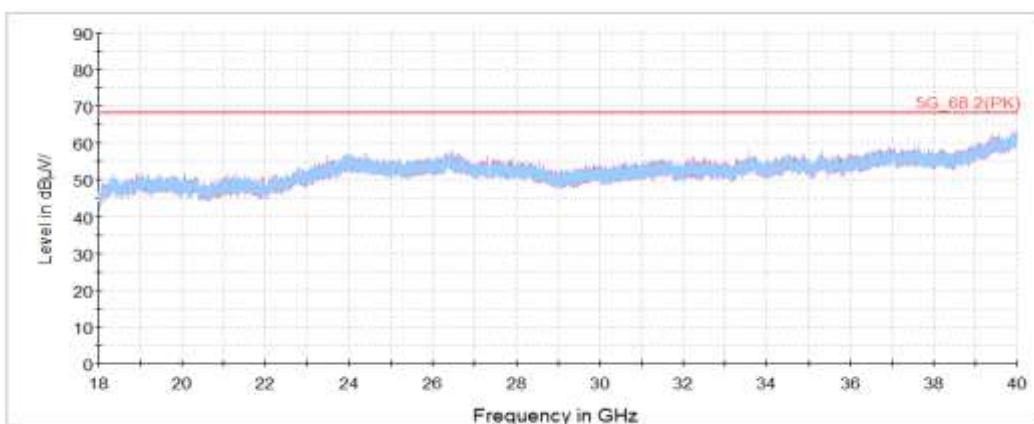
Average data (1 055.18 MHz)**Average data (15 776.07 MHz)**

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 (5 300 MHz)

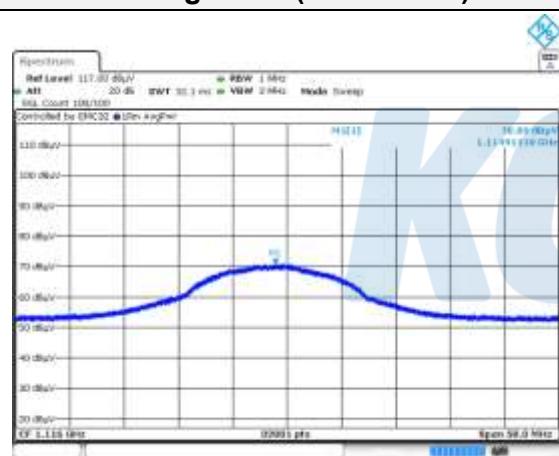
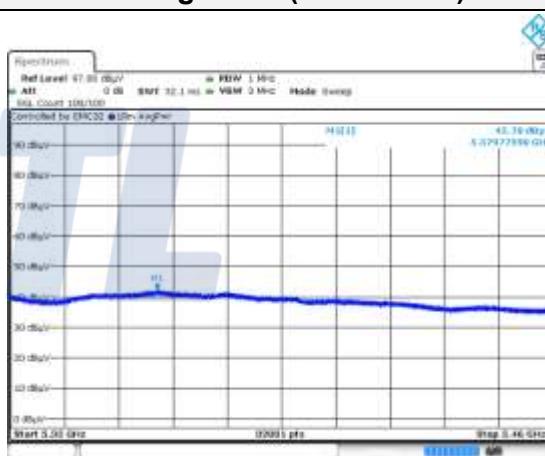
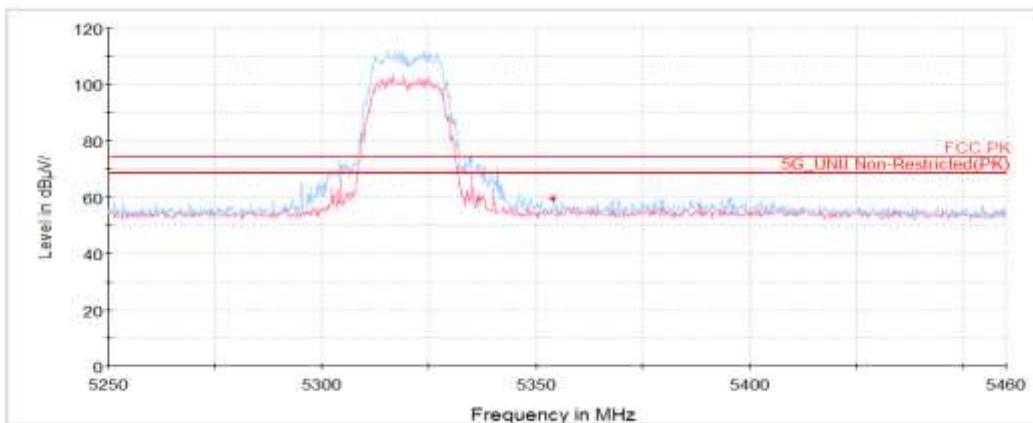
| Frequency | Pol. | Reading | Antenna Factor | Amp. + Cable | DCCF | Result | Limit | Margin |
|-------------------------|-------|----------------|----------------|--------------|------|------------------|------------------|--------|
| (MHz) | (V/H) | (dB(μ V)) | (dB) | (dB) | (dB) | (dB(μ V/m)) | (dB(μ V/m)) | (dB) |
| Peak data | | | | | | | | |
| 1 095.60 ¹⁾ | H | 78.74 | 27.84 | -50.62 | - | 55.96 | 74.00 | 18.04 |
| 7 066.73 | H | 66.00 | 35.40 | -52.37 | - | 49.03 | 68.20 | 19.17 |
| 10 600.20 ¹⁾ | V | 64.61 | 37.46 | -49.87 | - | 52.20 | 74.00 | 21.80 |
| 15 896.77 ¹⁾ | V | 64.35 | 40.08 | -48.76 | - | 55.67 | 74.00 | 18.33 |
| Average Data | | | | | | | | |
| 1 095.60 ¹⁾ | H | 70.93 | 27.84 | -50.62 | 0.22 | 48.37 | 54.00 | 5.63 |
| 15 896.77 ¹⁾ | V | 57.32 | 40.08 | -48.76 | 0.22 | 48.86 | 54.00 | 5.14 |

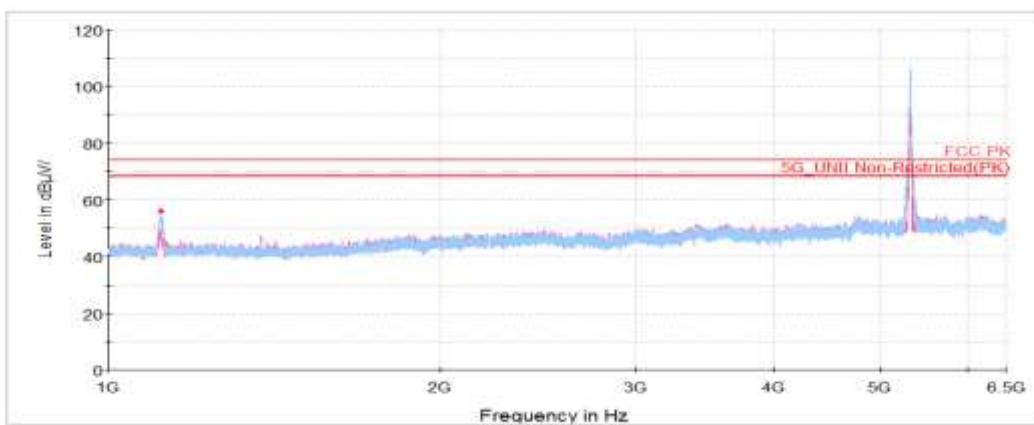
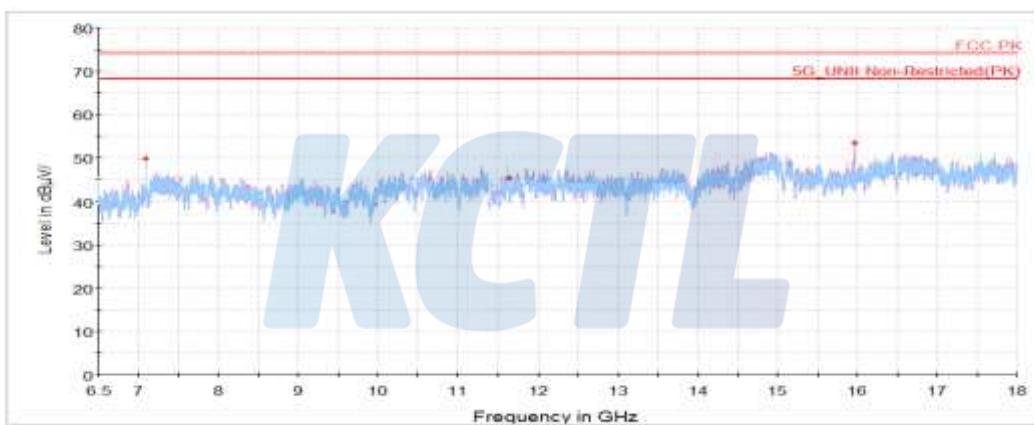
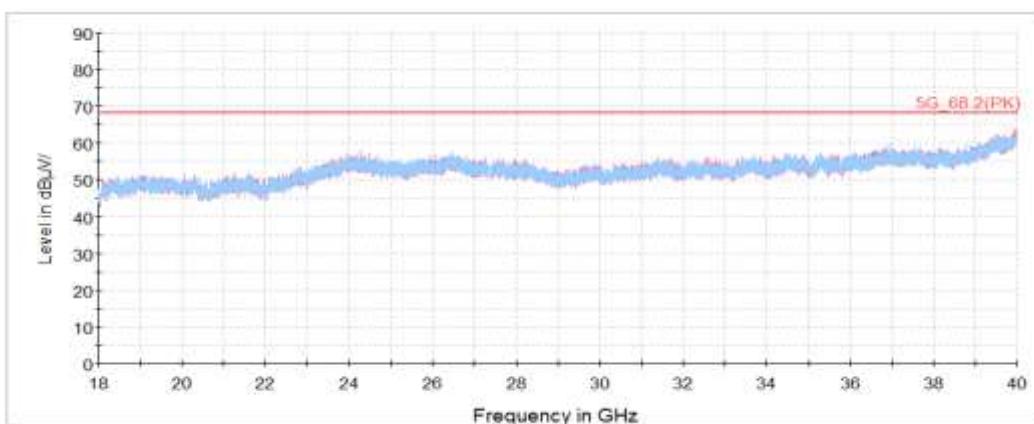
Average data (1 095.60 MHz)**Average data (15 896.77 MHz)**

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 (5 320 MHz)

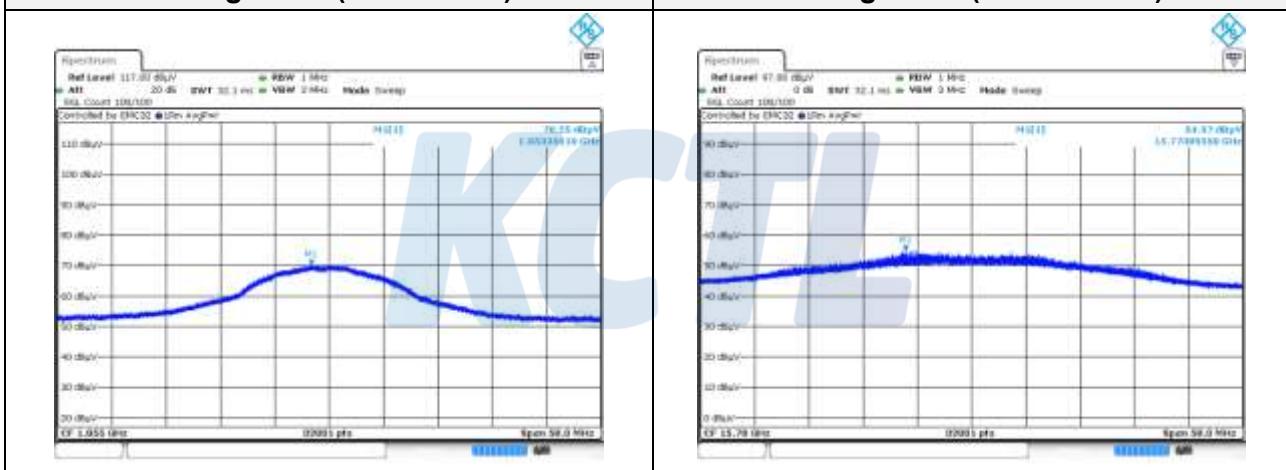
| Frequency (MHz) | Pol. | Reading (dB(μ V)) | Antenna Factor (dB) | Amp. + Cable (dB) | DCCF (dB) | Result (dB(μ V/m)) | Limit (dB(μ V/m)) | Margin (dB) |
|-------------------------|------|---------------------------|------------------------|----------------------|--------------|----------------------------|---------------------------|----------------|
| Peak data | | | | | | | | |
| 1 114.91 ¹⁾ | H | 78.87 | 27.85 | -50.50 | - | 56.22 | 74.00 | 17.78 |
| 5 379.78 ¹⁾ | H | 51.41 | 34.61 | -26.77 | - | 59.25 | 74.00 | 14.75 |
| 7 093.33 | H | 66.59 | 35.40 | -52.25 | - | 49.74 | 68.20 | 18.46 |
| 11 637.27 ¹⁾ | V | 57.35 | 38.16 | -50.14 | - | 45.37 | 74.00 | 28.63 |
| 15 956.09 ¹⁾ | V | 62.08 | 40.09 | -48.79 | - | 53.38 | 74.00 | 20.62 |
| Average Data | | | | | | | | |
| 1 114.91 ¹⁾ | H | 70.89 | 27.85 | -50.50 | 0.22 | 48.46 | 54.00 | 5.54 |
| 5 379.78 ¹⁾ | H | 42.70 | 34.61 | -26.77 | 0.22 | 50.76 | 54.00 | 3.24 |

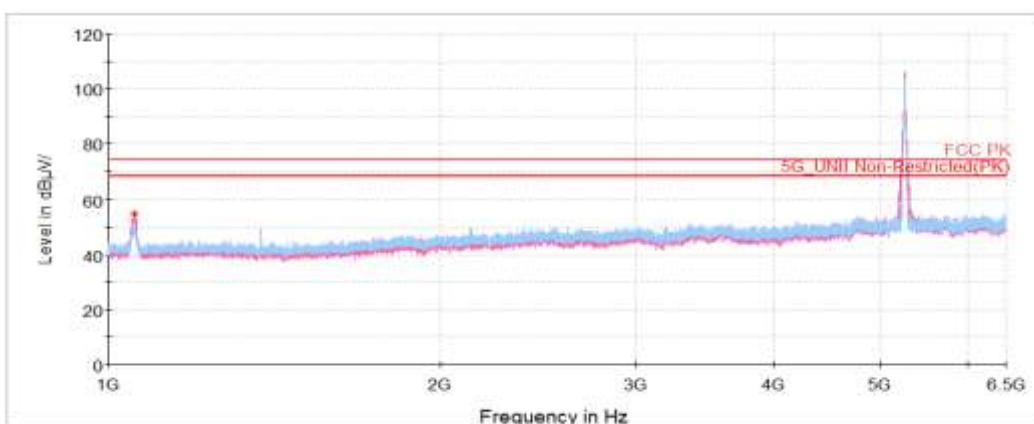
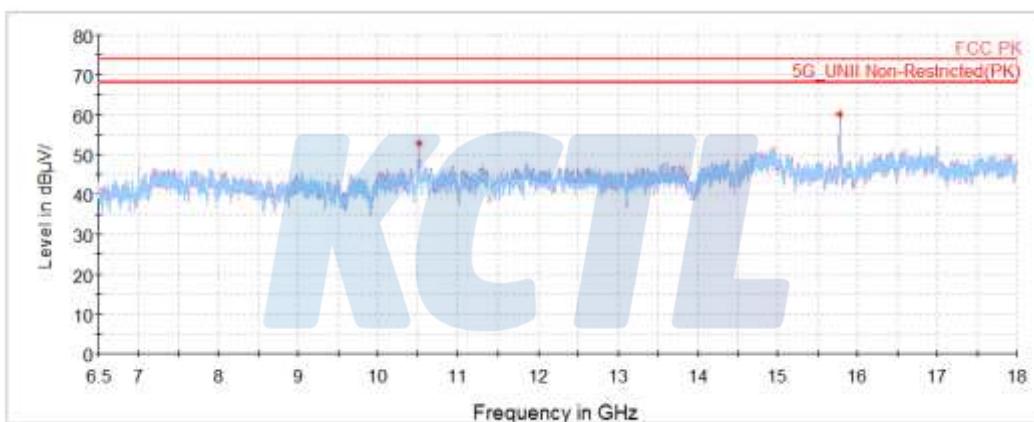
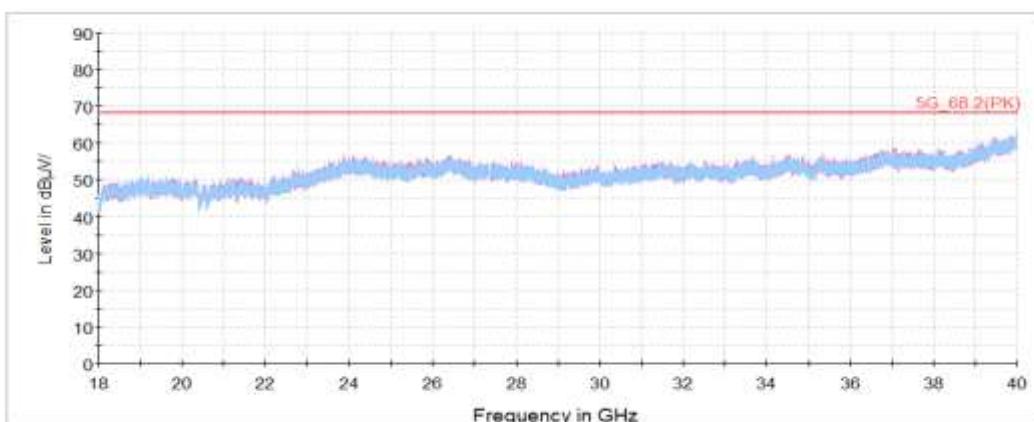
Average data (1 114.91 MHz)**Average data (5 379.78 MHz)****Horizontal/Vertical for Band-edge**

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 2A ANT 2**Lowest Channel (5 260 MHz)**

| Frequency (MHz) | Pol. | Reading (dB(μ V)) | Antenna Factor (dB) | Amp. + Cable (dB) | DCCF (dB) | Result (dB(μ V/m)) | Limit (dB(μ V/m)) | Margin (dB) |
|-------------------------|------|---------------------------|------------------------|----------------------|--------------|----------------------------|---------------------------|----------------|
| Peak data | | | | | | | | |
| 1 053.35 ¹⁾ | V | 77.69 | 27.82 | -50.61 | - | 54.90 | 74.00 | 19.10 |
| 10 524.28 | V | 64.88 | 37.41 | -49.71 | - | 52.58 | 68.20 | 15.62 |
| 15 773.90 ¹⁾ | H | 68.76 | 40.05 | -48.69 | - | 60.12 | 74.00 | 13.88 |
| Average Data | | | | | | | | |
| 1 053.35 ¹⁾ | V | 70.25 | 27.82 | -50.61 | 0.22 | 47.68 | 54.00 | 6.32 |
| 15 773.90 ¹⁾ | V | 54.97 | 40.05 | -48.69 | 0.22 | 46.55 | 54.00 | 7.45 |

Average data (1 053.35 MHz)**Average data (15 573.90 MHz)**

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

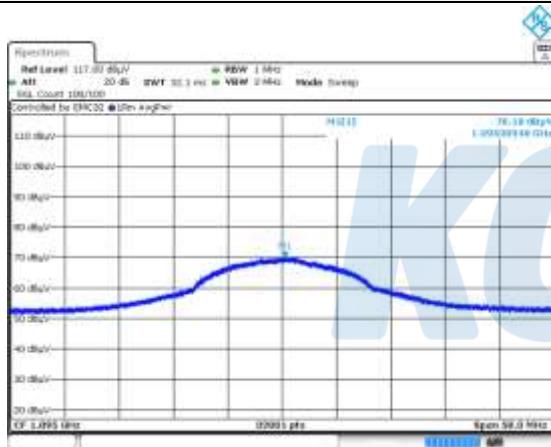
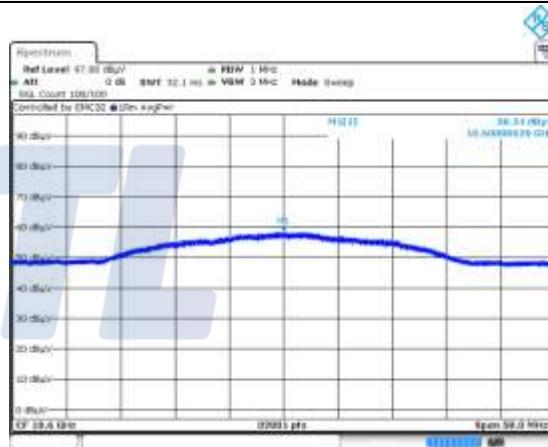
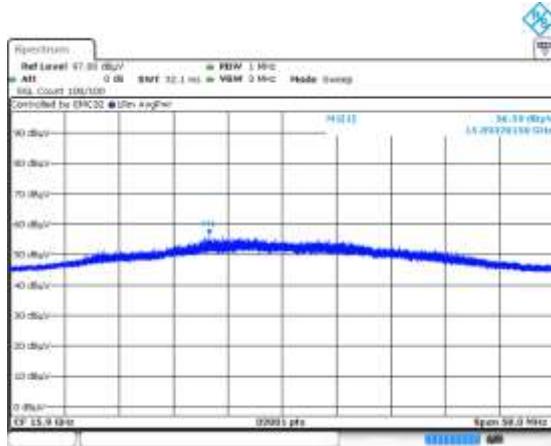
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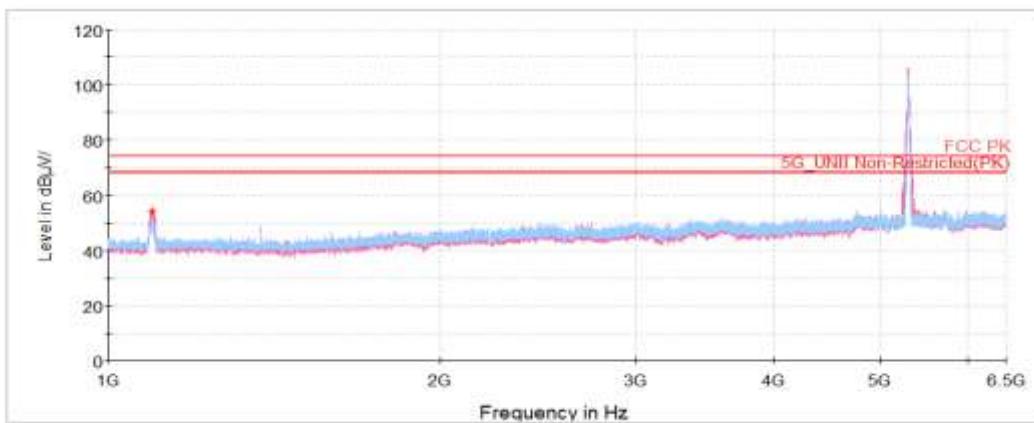
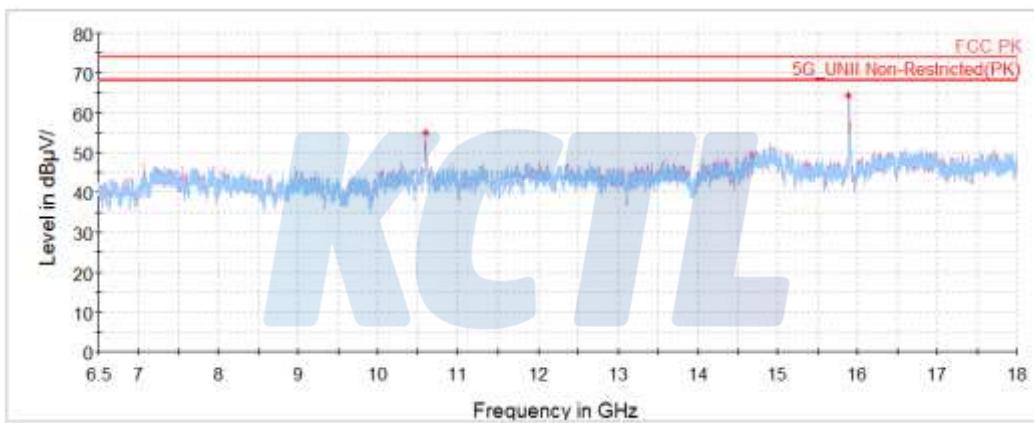
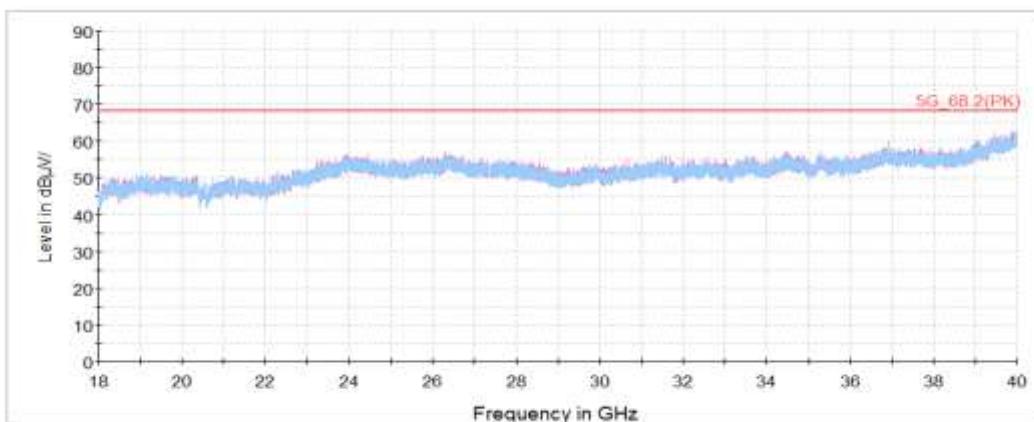
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KCTL**Middle Channel (5 300 MHz)**

| Frequency | Pol. | Reading | Antenna Factor | Amp. + Cable | DCCF | Result | Limit | Margin |
|-------------------------|-------|----------------|----------------|--------------|------|------------------|------------------|--------|
| (MHz) | (V/H) | (dB(μ V)) | (dB) | (dB) | (dB) | (dB(μ V/m)) | (dB(μ V/m)) | (dB) |
| Peak data | | | | | | | | |
| 1 095.31 ¹⁾ | V | 77.34 | 27.84 | -50.62 | - | 54.56 | 74.00 | 19.44 |
| 10 600.01 ¹⁾ | V | 67.25 | 37.46 | -49.87 | - | 54.84 | 74.00 | 19.16 |
| 15 893.28 ¹⁾ | V | 72.90 | 40.08 | -48.76 | - | 64.22 | 74.00 | 9.78 |
| Average Data | | | | | | | | |
| 1 095.31 ¹⁾ | V | 70.18 | 27.84 | -50.62 | 0.22 | 47.62 | 54.00 | 6.38 |
| 10 600.01 ¹⁾ | V | 58.54 | 37.46 | -49.87 | 0.22 | 46.35 | 54.00 | 7.65 |
| 15 893.28 ¹⁾ | V | 56.59 | 40.08 | -48.76 | 0.22 | 48.13 | 54.00 | 5.87 |

Average data (1 095.31 MHz)**Average data (10 600.01 MHz)****Average data (15 893.28 MHz)**

Blank

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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 Suwon-si, Gyeonggi-do, 16677, Korea
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**Highest Channel (5 320 MHz)**

| Frequency (MHz) | Pol. | Reading (dB(µV)) | Antenna Factor (dB) | Amp. + Cable (dB) | DCCF (dB) | Result (dB(µV/m)) | Limit (dB(µV/m)) | Margin (dB) |
|-------------------------|------|---------------------|------------------------|----------------------|--------------|----------------------|---------------------|----------------|
| Peak data | | | | | | | | |
| 1 115.45 ¹⁾ | V | 78.28 | 27.85 | -50.49 | - | 55.64 | 74.00 | 18.36 |
| 5 350.03 ¹⁾ | V | 51.51 | 34.56 | -26.84 | - | 59.23 | 74.00 | 14.77 |
| 10 641.77 ¹⁾ | V | 64.70 | 37.49 | -49.96 | - | 52.23 | 74.00 | 21.77 |
| 15 953.40 ¹⁾ | V | 72.42 | 40.09 | -48.79 | - | 63.72 | 74.00 | 10.28 |
| Average Data | | | | | | | | |
| 1 115.45 ¹⁾ | V | 70.59 | 27.85 | -50.49 | 0.22 | 48.17 | 54.00 | 5.83 |
| 5 350.03 ¹⁾ | V | 42.23 | 34.56 | -26.84 | 0.22 | 50.17 | 54.00 | 3.83 |
| 15 953.40 ¹⁾ | V | 48.56 | 40.09 | -48.79 | 0.22 | 40.08 | 54.00 | 13.92 |

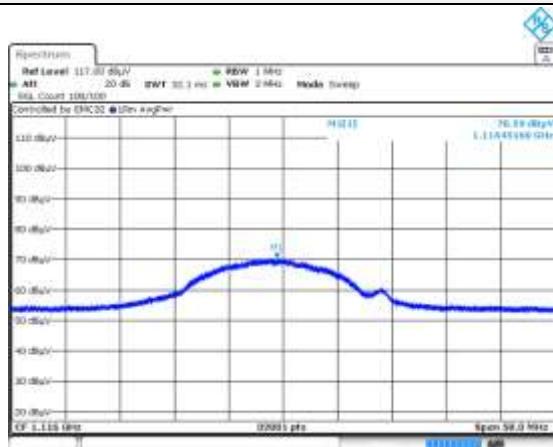
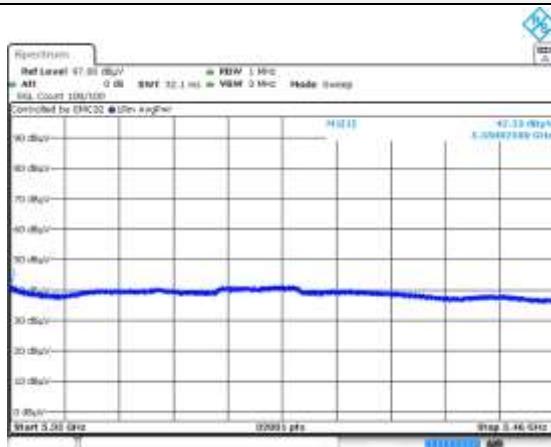
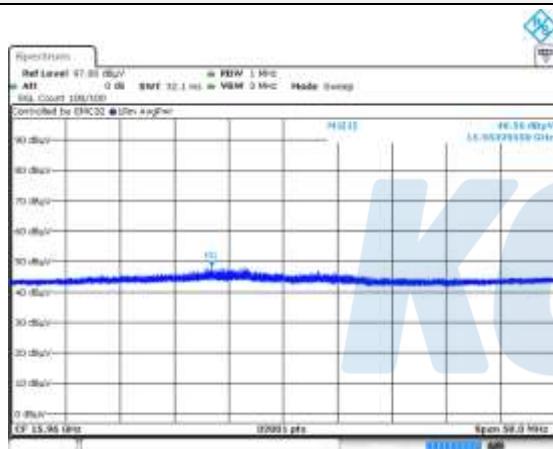


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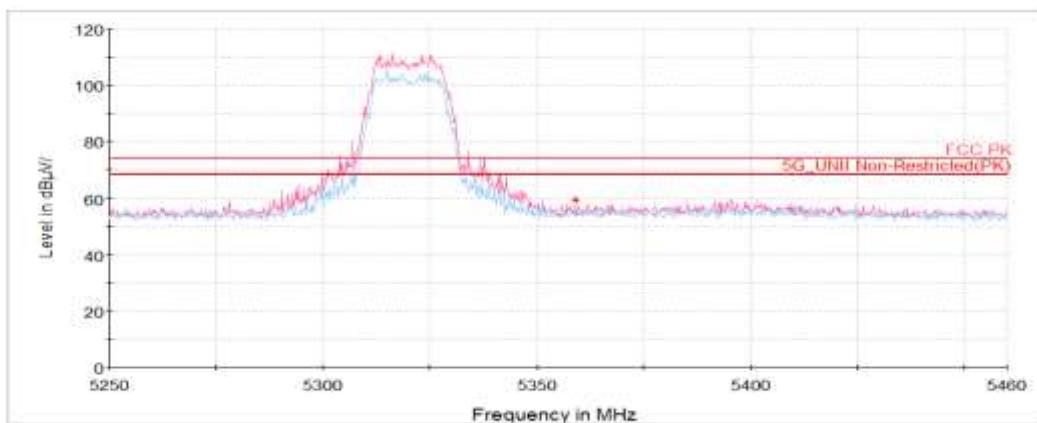
65, Sinwon-ro, Yeongtong-gu,
Suwon-si, Gyeonggi-do, 16677, Korea
TEL: 82-31-285-0894 FAX: 82-505-299-8311
www.kctl.co.kr

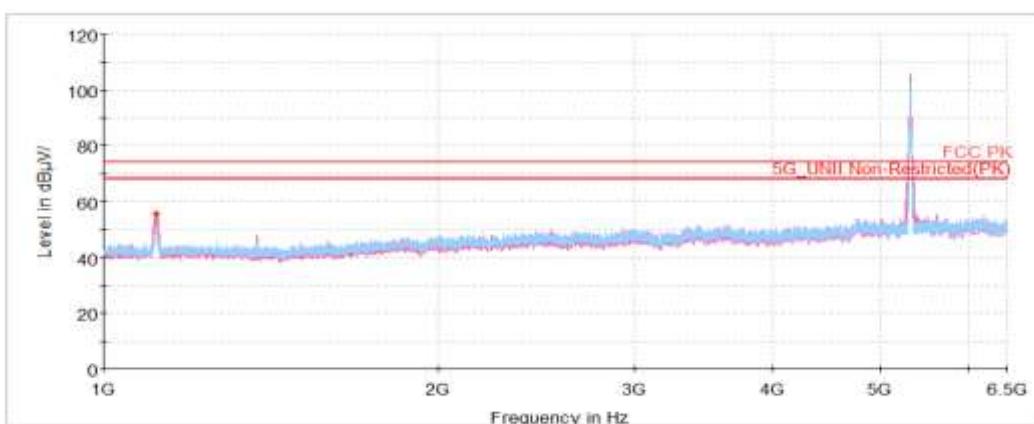
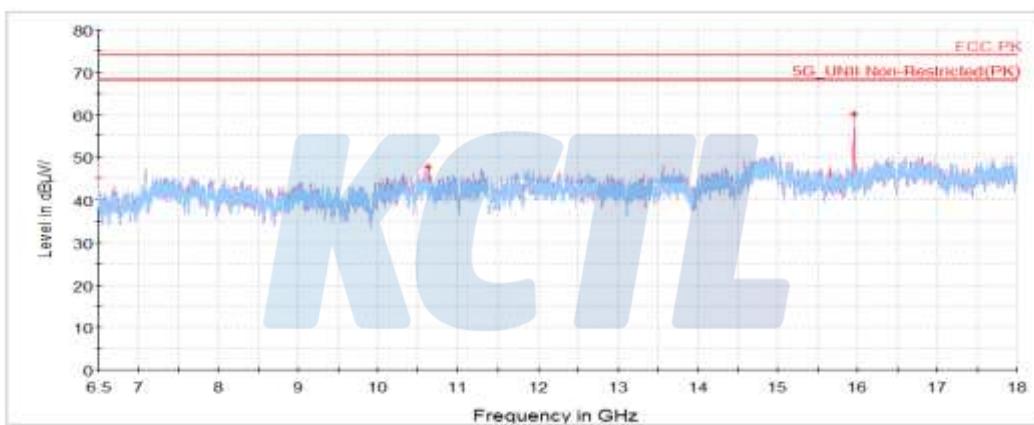
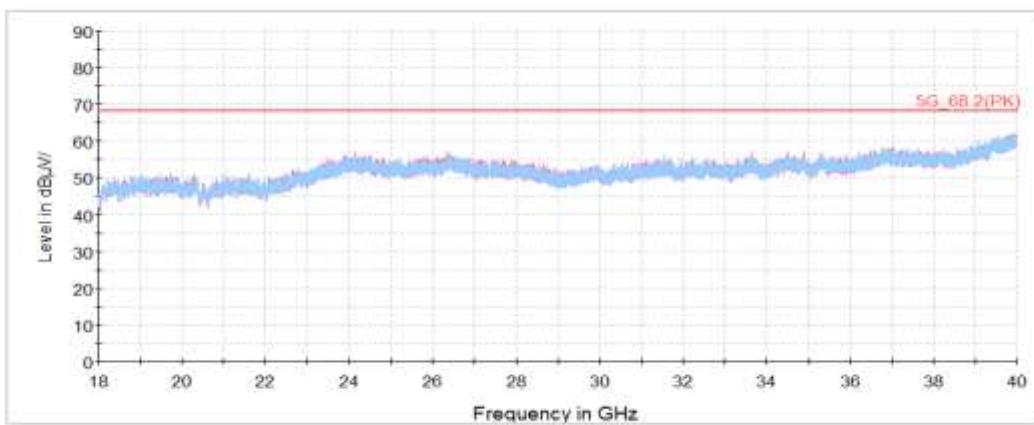
Report No.:
KR20-SRF0030-D

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KCTL**Average data (1 115.45 MHz)****Average data (5 350.03 MHz)****Average data (15 953.401 MHz)**

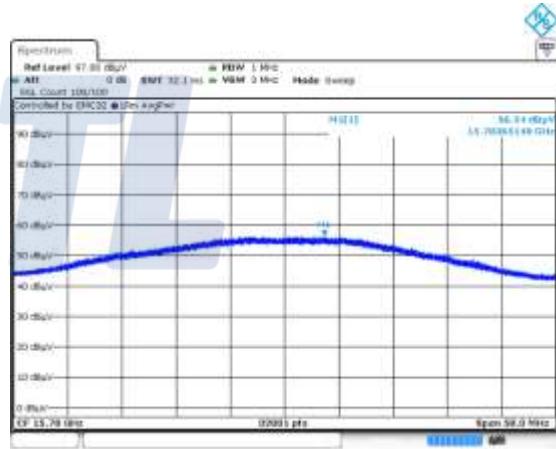
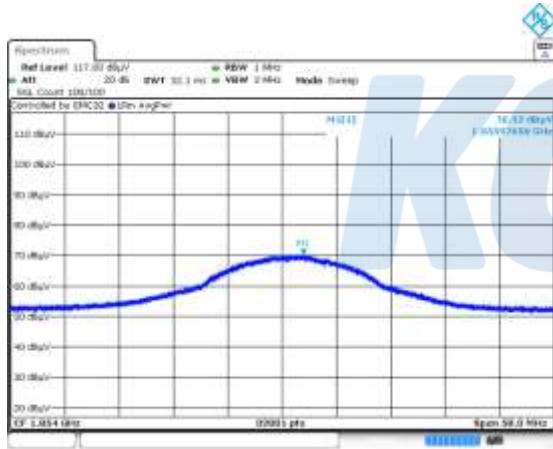
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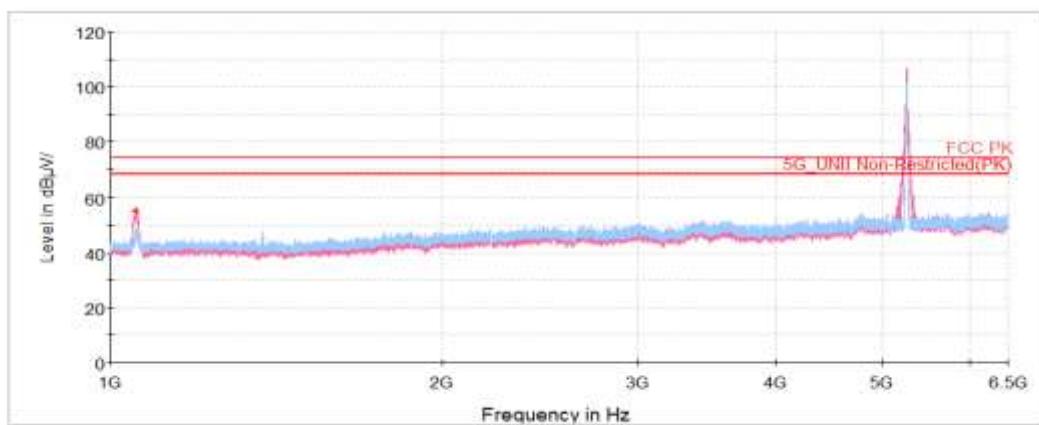
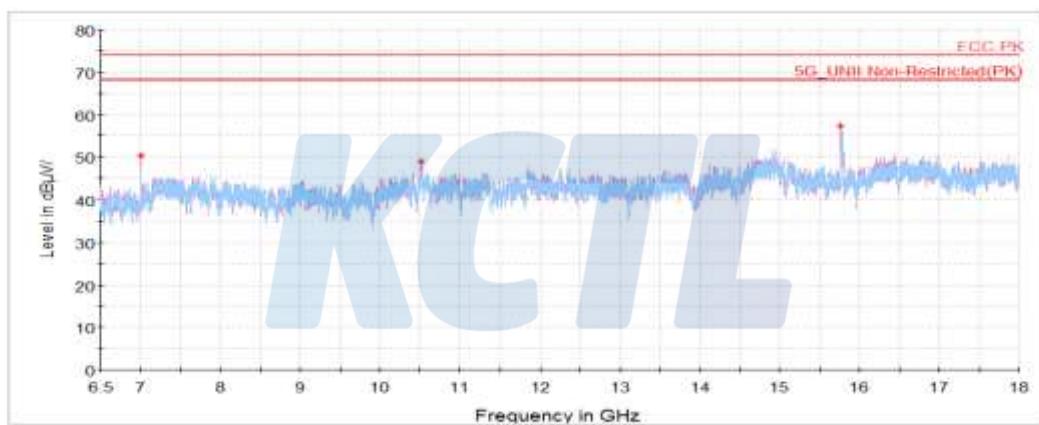
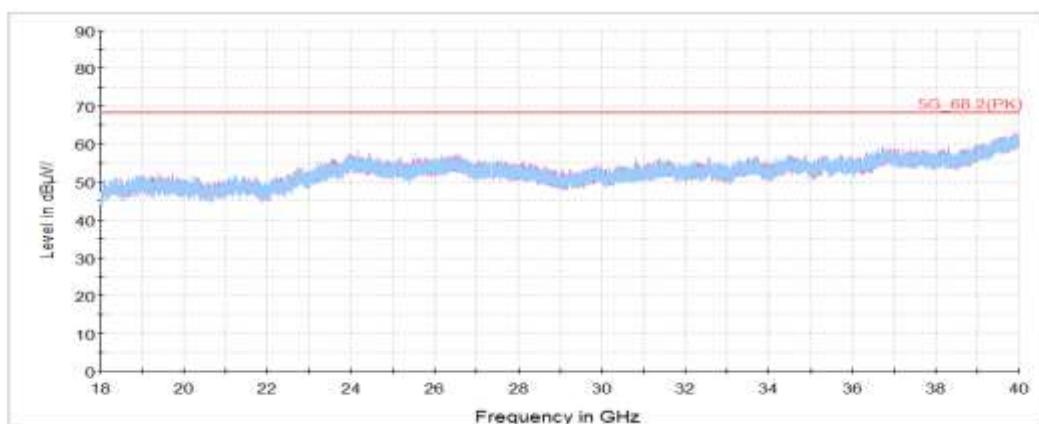
Horizontal/Vertical for Band-edge

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 2A ANT 3**Lowest Channel (5 260 MHz)**

| Frequency (MHz) | Pol. | Reading (dB(μ V)) | Antenna Factor (dB) | Amp. + Cable (dB) | DCCF (dB) | Result (dB(μ V/m)) | Limit (dB(μ V/m)) | Margin (dB) |
|-------------------------|------|---------------------------|------------------------|----------------------|--------------|----------------------------|---------------------------|----------------|
| Peak data | | | | | | | | |
| 1 055.98 ¹⁾ | V | 78.22 | 27.82 | -50.61 | - | 55.43 | 74.00 | 18.57 |
| 7 013.19 | V | 67.54 | 35.40 | -52.62 | - | 50.32 | 68.20 | 17.88 |
| 10 519.97 | V | 61.19 | 37.41 | -49.70 | - | 48.90 | 68.20 | 19.30 |
| 15 783.65 ¹⁾ | V | 65.94 | 40.06 | -48.70 | - | 57.30 | 74.00 | 16.70 |
| Average Data | | | | | | | | |
| 1 055.98 ¹⁾ | V | 70.52 | 27.82 | -50.61 | 0.22 | 47.95 | 54.00 | 6.05 |
| 15 783.65 ¹⁾ | V | 56.54 | 40.06 | -48.70 | 0.22 | 48.12 | 54.00 | 5.88 |

Average data (1 055.98 MHz)**Average data (15 783.65 MHz)**

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.

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Suwon-si, Gyeonggi-do, 16677, Korea
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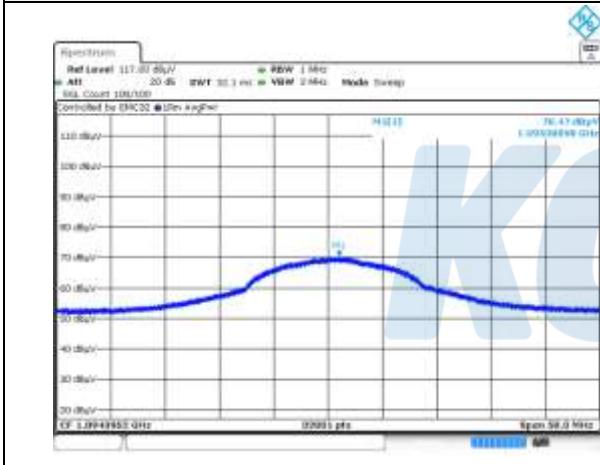
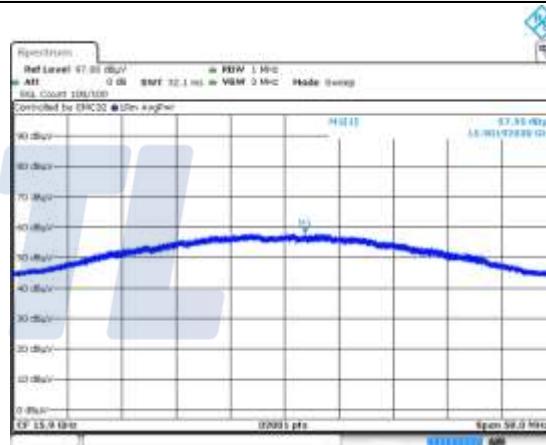
Report No.:

KR20-SRF0030-D

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KCTL**Middle Channel (5 300 MHz)**

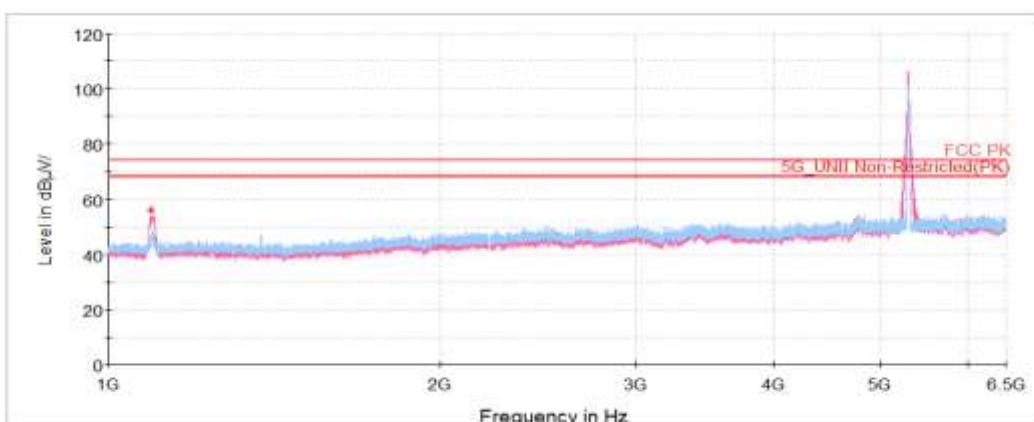
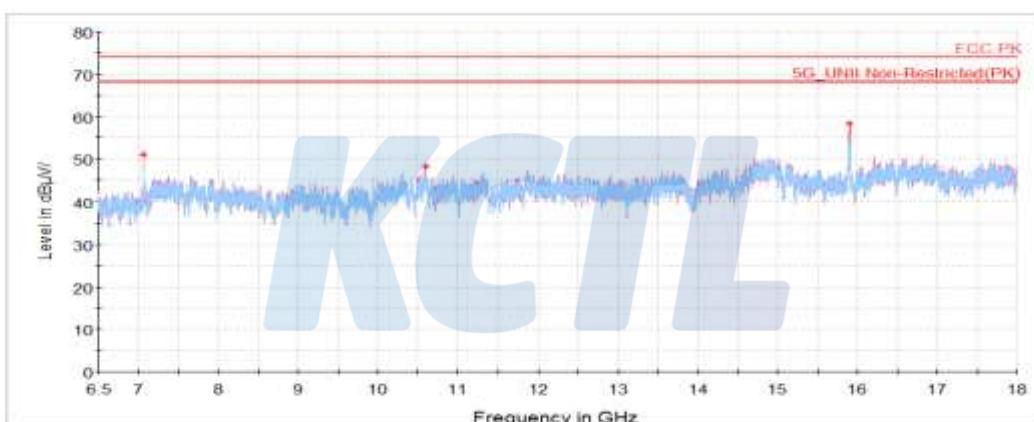
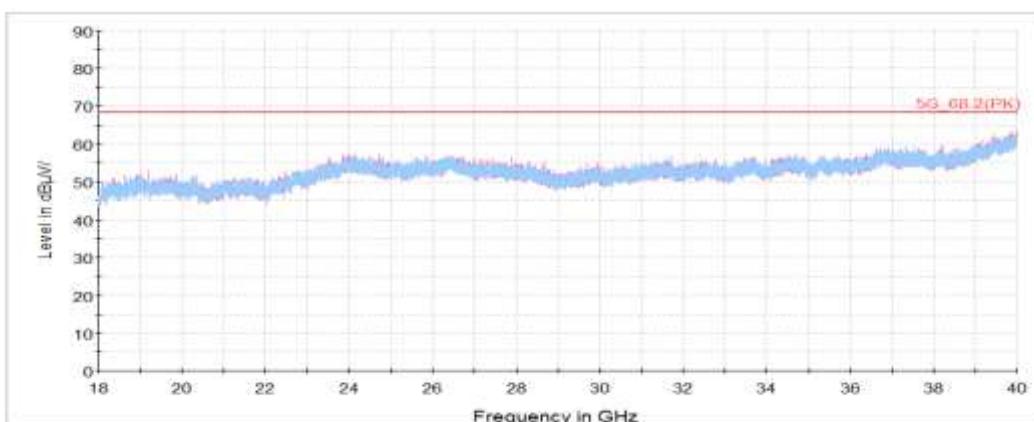
| Frequency | Pol. | Reading | Antenna Factor | Amp. + Cable | DCCF | Result | Limit | Margin |
|-------------------------|-------|----------------|----------------|--------------|------|------------------|------------------|--------|
| (MHz) | (V/H) | (dB(μ V)) | (dB) | (dB) | (dB) | (dB(μ V/m)) | (dB(μ V/m)) | (dB) |
| Peak data | | | | | | | | |
| 1 095.39 ¹⁾ | V | 78.85 | 27.84 | -50.62 | - | 56.07 | 74.00 | 17.93 |
| 7 066.73 | V | 67.97 | 35.40 | -52.37 | - | 51.00 | 68.20 | 17.20 |
| 10 601.19 ¹⁾ | V | 60.63 | 37.46 | -49.88 | - | 48.21 | 74.00 | 25.79 |
| 15 901.92 ¹⁾ | V | 66.91 | 40.08 | -48.76 | - | 58.23 | 74.00 | 15.77 |
| Average Data | | | | | | | | |
| 1 095.39 ¹⁾ | V | 70.47 | 27.84 | -50.62 | 0.22 | 47.91 | 54.00 | 6.09 |
| 15 901.92 ¹⁾ | V | 57.95 | 40.08 | -48.76 | 0.22 | 49.49 | 54.00 | 4.51 |

Average data (1 095.39 MHz)**Average data (15 901.92 MHz)**

KCTL Inc.

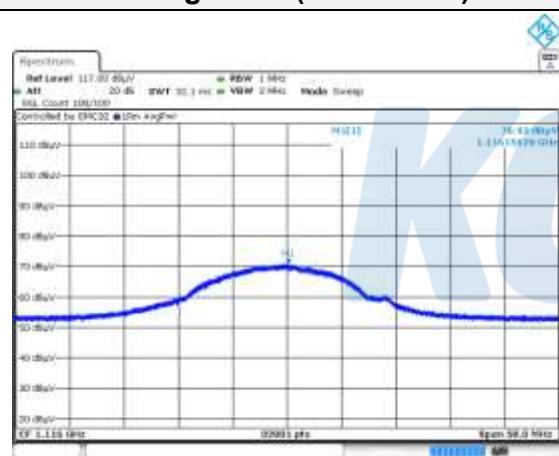
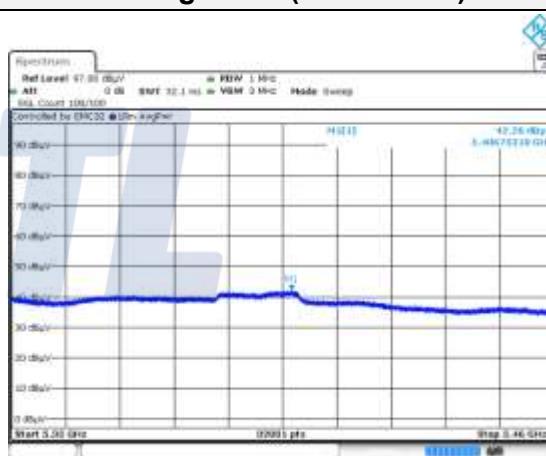
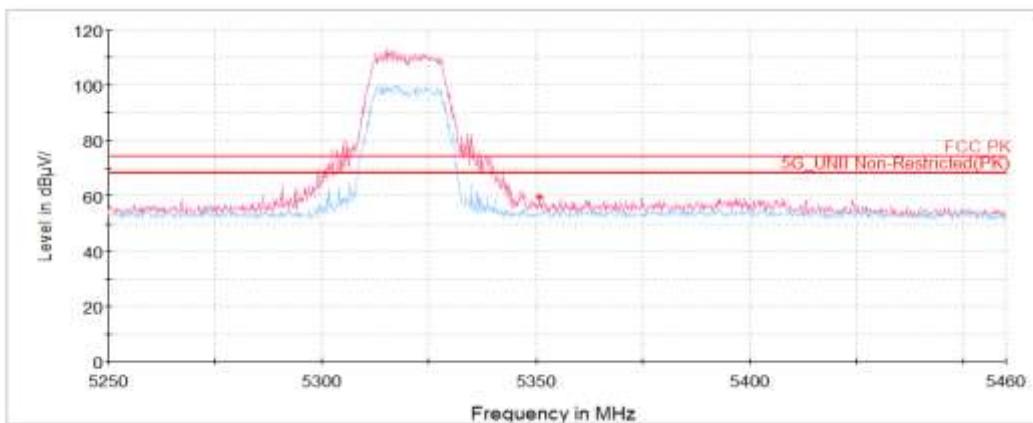
65, Sinwon-ro, Yeongtong-gu,
Suwon-si, Gyeonggi-do, 16677, Korea
TEL: 82-31-285-0894 FAX: 82-505-299-8311
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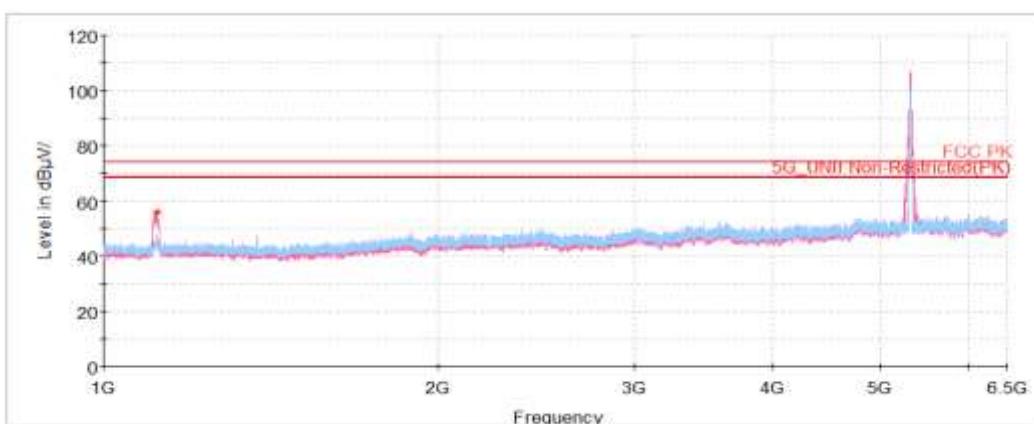
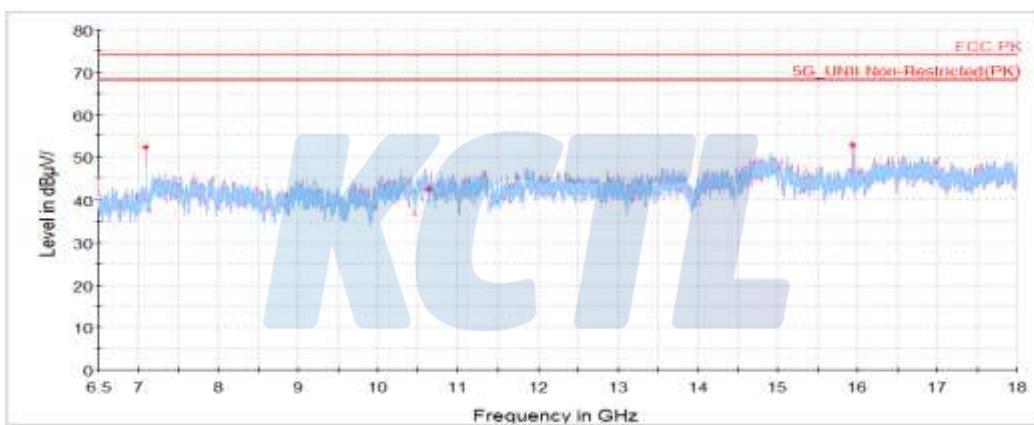
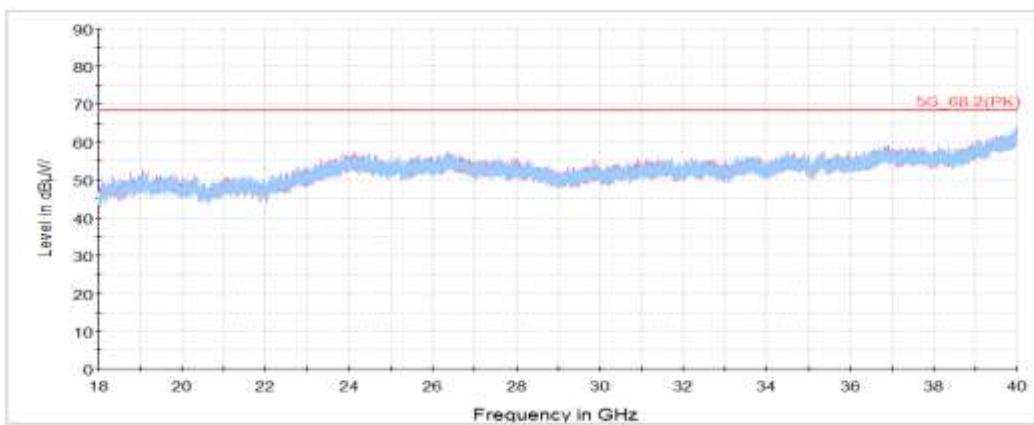
Report No.:
KR20-SRF0030-D
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KCTL**Horizontal/Vertical for 1 GHz ~ 6.5 GHz****Horizontal/Vertical for 6.5 GHz ~ 18 GHz****Horizontal/Vertical for 18 GHz ~ 40 GHz**

Highest Channel (5 320 MHz)

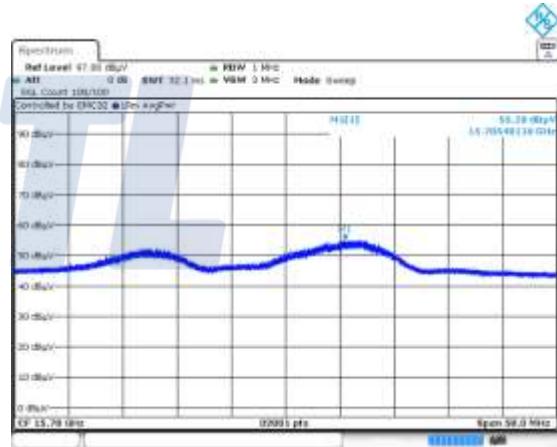
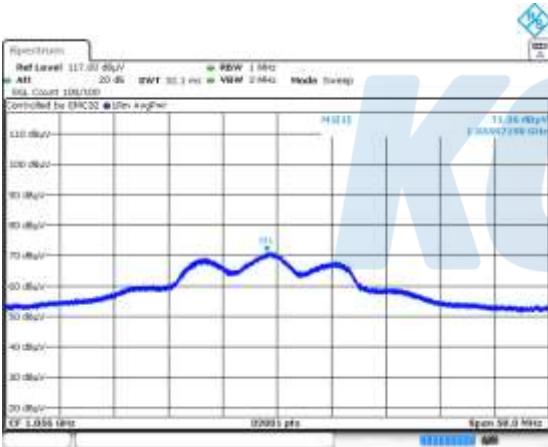
| Frequency | Pol. | Reading | Antenna Factor | Amp. + Cable | DCCF | Result | Limit | Margin |
|-------------------------|-------|----------------|----------------|--------------|------|------------------|------------------|--------|
| (MHz) | (V/H) | (dB(μ V)) | (dB) | (dB) | (dB) | (dB(μ V/m)) | (dB(μ V/m)) | (dB) |
| Peak data | | | | | | | | |
| 1 116.16 ¹⁾ | V | 78.86 | 27.85 | -50.49 | - | 56.22 | 74.00 | 17.78 |
| 5 406.75 ¹⁾ | V | 51.37 | 34.65 | -26.79 | - | 59.23 | 74.00 | 14.77 |
| 7 093.33 | V | 69.21 | 35.40 | -52.25 | - | 52.36 | 68.20 | 15.84 |
| 10 645.39 ¹⁾ | V | 54.98 | 37.49 | -49.97 | - | 42.50 | 74.00 | 31.50 |
| 15 954.88 ¹⁾ | V | 61.61 | 40.09 | -48.79 | - | 52.91 | 74.00 | 21.09 |
| Average Data | | | | | | | | |
| 1 116.16 ¹⁾ | V | 70.93 | 27.85 | -50.49 | 0.22 | 48.51 | 54.00 | 5.49 |
| 5 406.75 ¹⁾ | V | 42.26 | 34.65 | -26.79 | 0.22 | 50.34 | 54.00 | 3.66 |

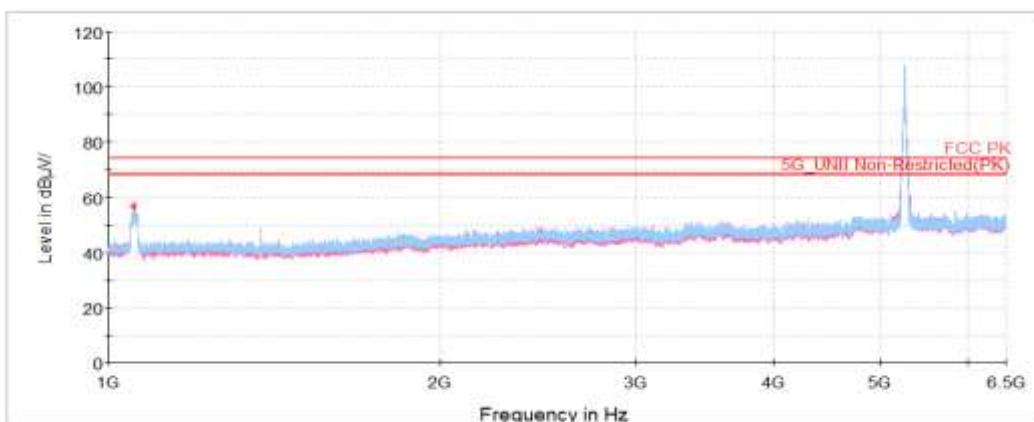
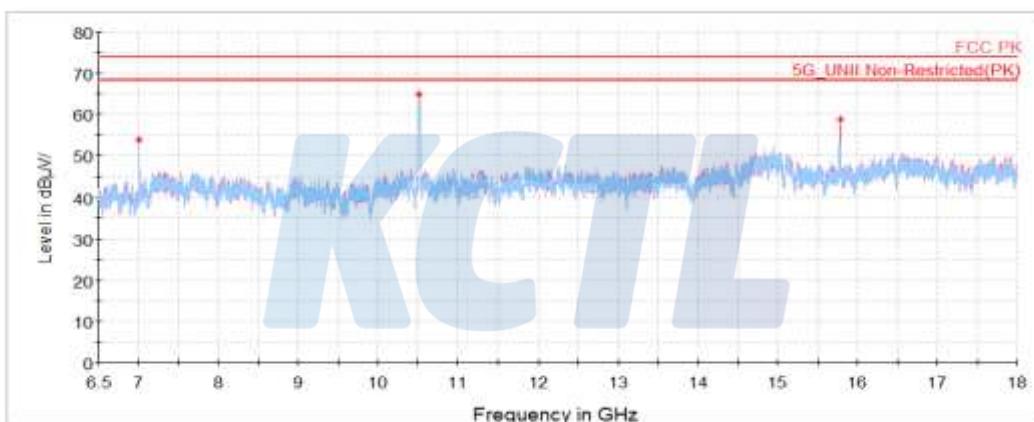
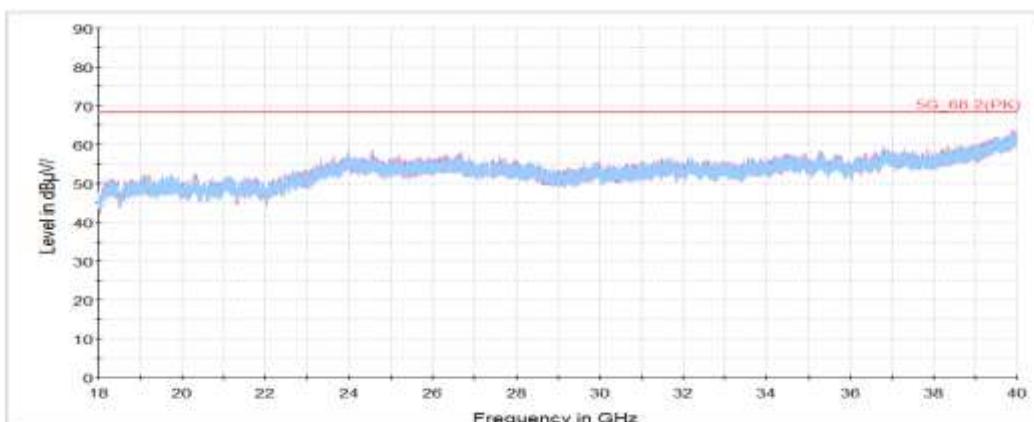
Average data (1 116.16 MHz)**Average data (5 406.75 MHz)****Horizontal/Vertical for Band-edge**

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 2A 4TX MIMO**Lowest Channel (5 260 MHz)**

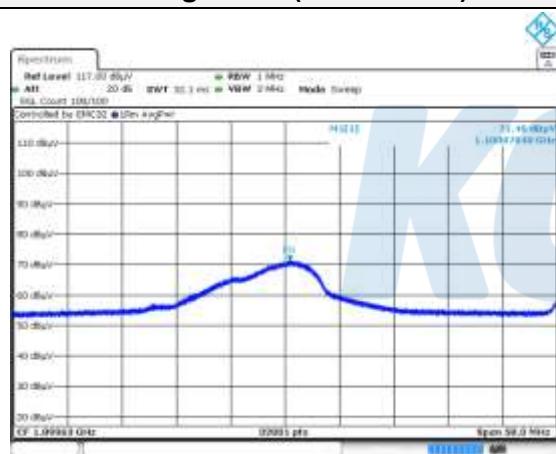
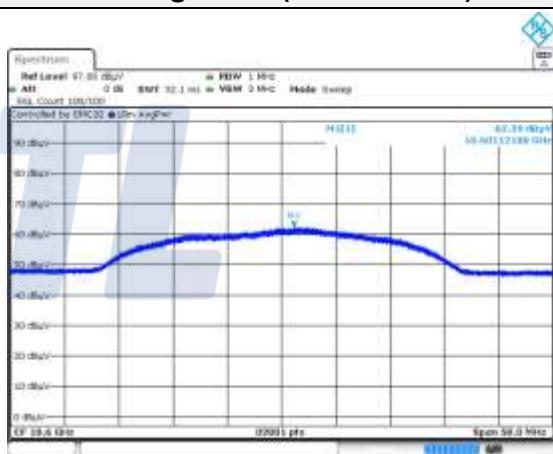
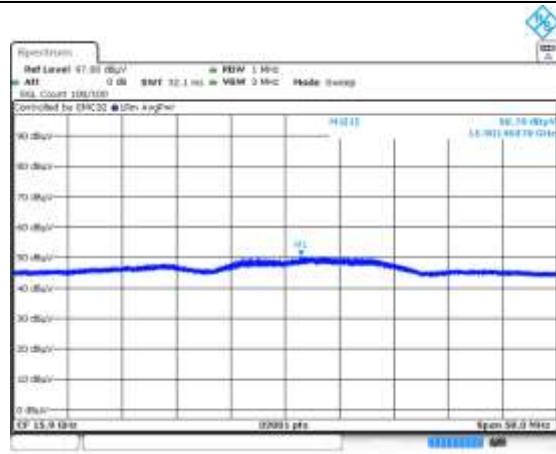
| Frequency (MHz) | Pol. | Reading (dB(μ V)) | Antenna Factor (dB) | Amp. + Cable (dB) | DCCF (dB) | Result (dB(μ V/m)) | Limit (dB(μ V/m)) | Margin (dB) |
|-------------------------|------|---------------------------|------------------------|----------------------|--------------|----------------------------|---------------------------|----------------|
| Peak data | | | | | | | | |
| 1 055.07 ¹⁾ | H | 79.69 | 27.82 | -50.61 | - | 56.90 | 74.00 | 17.10 |
| 7 013.55 | H | 71.03 | 35.40 | -52.62 | - | 53.81 | 68.20 | 14.39 |
| 10 521.77 | V | 76.99 | 37.41 | -49.70 | - | 64.70 | 68.20 | 3.50 |
| 15 785.48 ¹⁾ | V | 67.44 | 40.06 | -48.70 | - | 58.80 | 74.00 | 15.20 |
| Average Data | | | | | | | | |
| 1 055.07 ¹⁾ | V | 71.36 | 27.82 | -50.61 | 0.22 | 48.79 | 54.00 | 5.21 |
| 15 785.48 ¹⁾ | V | 55.28 | 40.06 | -48.70 | 0.22 | 46.86 | 54.00 | 7.14 |

Average data (1 055.07 MHz)**Average data (15 785.48 MHz)**

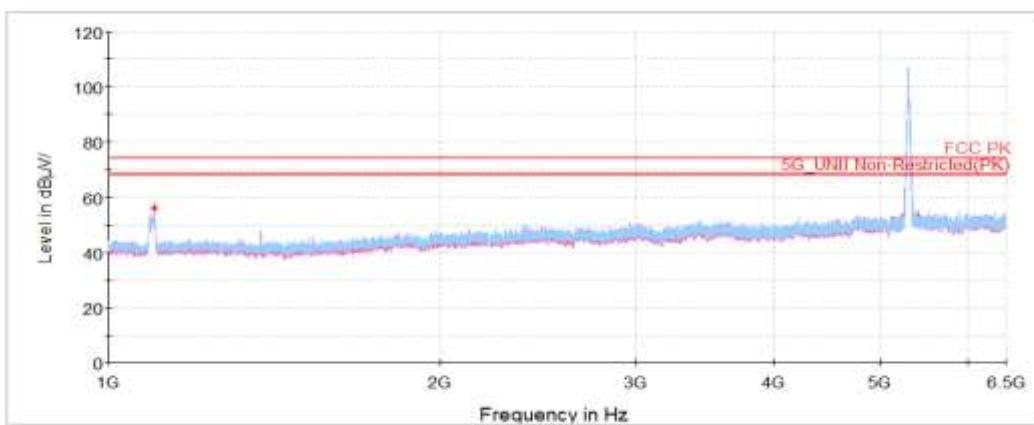
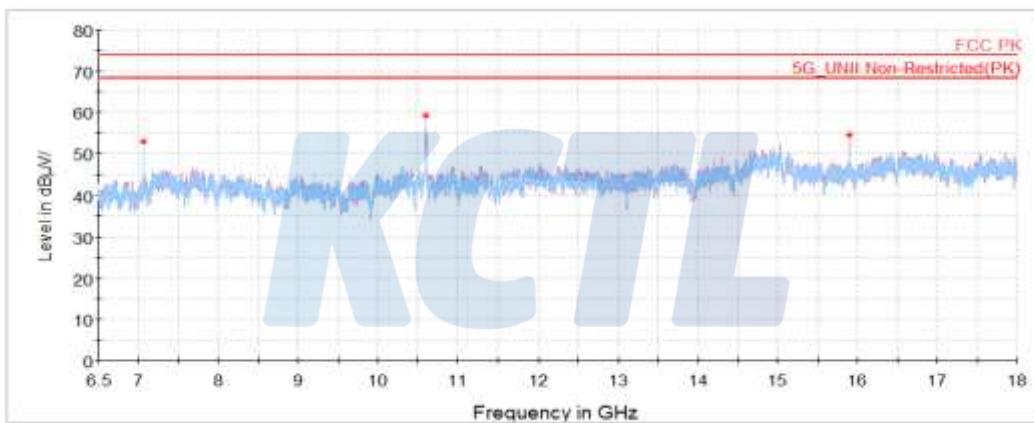
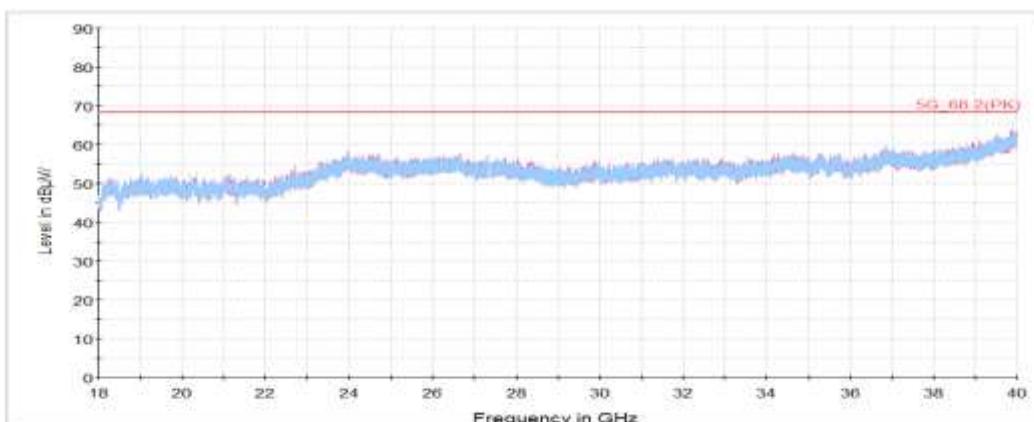
Horizontal/Vertical for 1 GHz ~ 6.5 GHz**Horizontal/Vertical for 6.5 GHz ~ 18 GHz****Horizontal/Vertical for 18 GHz ~ 40 GHz**

Middle Channel (5 300 MHz)

| Frequency | Pol. | Reading | Antenna Factor | Amp. + Cable | DCCF | Result | Limit | Margin |
|-------------------------|-------|----------------|----------------|--------------|------|------------------|------------------|--------|
| (MHz) | (V/H) | (dB(μ V)) | (dB) | (dB) | (dB) | (dB(μ V/m)) | (dB(μ V/m)) | (dB) |
| Peak data | | | | | | | | |
| 1 100.08 ¹⁾ | V | 78.87 | 27.84 | -50.62 | - | 56.09 | 74.00 | 17.91 |
| 7 066.73 | H | 69.76 | 35.40 | -52.37 | - | 52.79 | 68.20 | 15.41 |
| 10 601.12 ¹⁾ | H | 71.55 | 37.46 | -49.88 | - | 59.13 | 74.00 | 14.87 |
| 15 901.47 ¹⁾ | V | 63.15 | 40.08 | -48.76 | - | 54.47 | 74.00 | 19.53 |
| Average Data | | | | | | | | |
| 1 100.08 ¹⁾ | V | 71.46 | 27.84 | -50.62 | 0.22 | 48.90 | 54.00 | 5.10 |
| 10 601.12 ¹⁾ | H | 62.39 | 37.46 | -49.88 | 0.22 | 50.19 | 54.00 | 3.81 |
| 15 901.47 ¹⁾ | V | 50.70 | 40.08 | -48.76 | 0.22 | 42.24 | 54.00 | 11.76 |

Average data (1 100.08 MHz)**Average data (10 601.12 MHz)****Average data (15 901.47 MHz)**

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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.

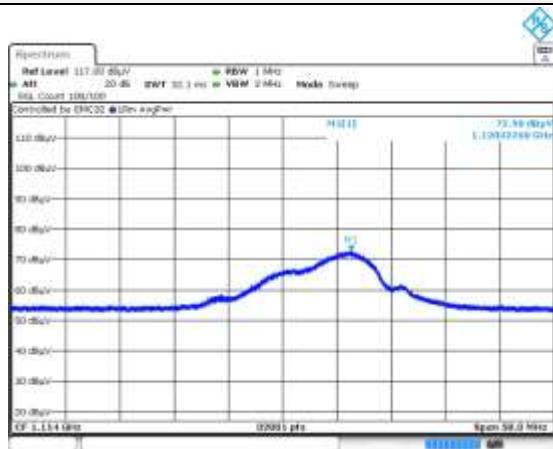
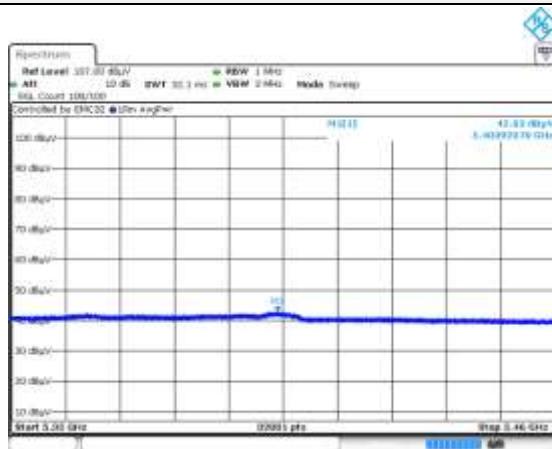
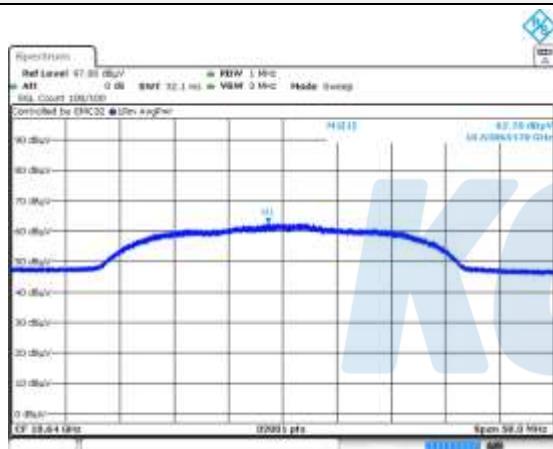
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 KR20-SRF0030-D
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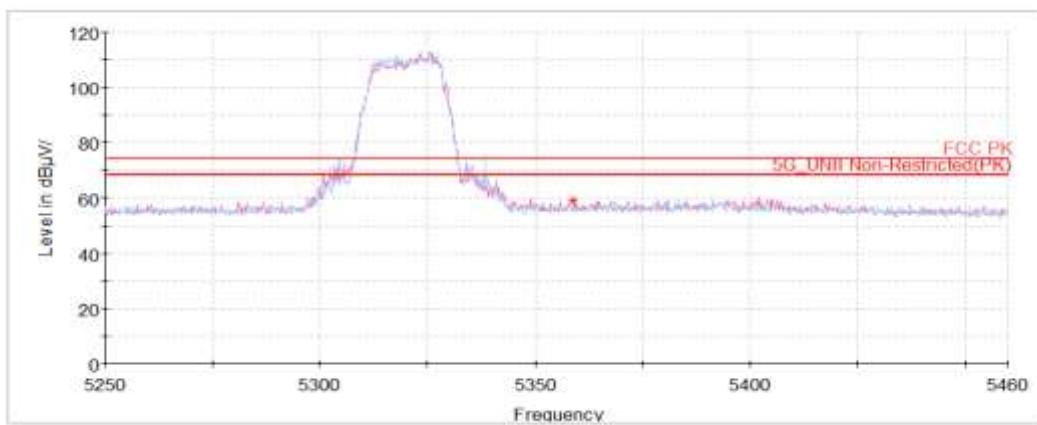
**Highest Channel (5 320 MHz)**

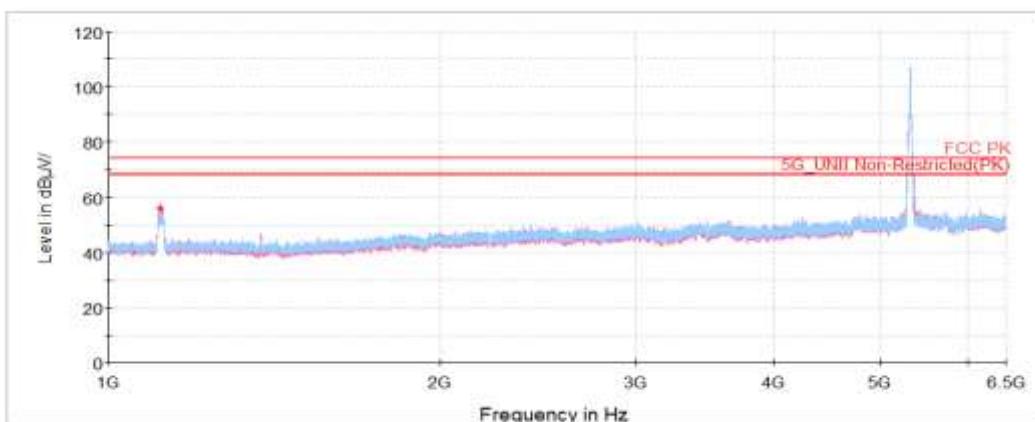
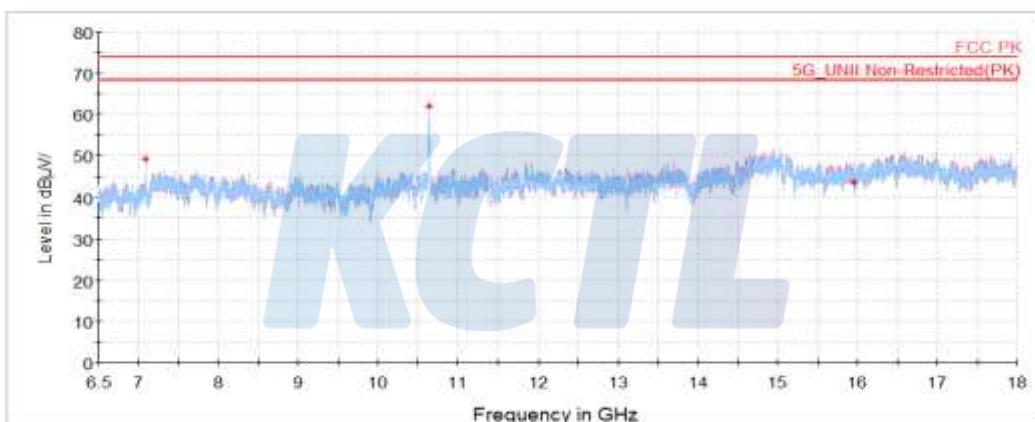
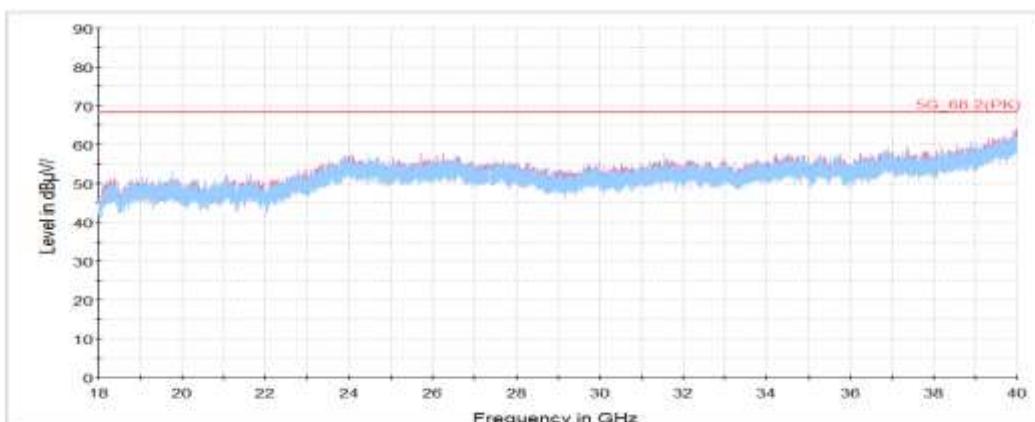
| Frequency (MHz) | Pol. | Reading (dB(µV)) | Antenna Factor (dB) | Amp. + Cable (dB) | DCCF (dB) | Result (dB(µV/m)) | Limit (dB(µV/m)) | Margin (dB) |
|-------------------------|------|---------------------|------------------------|----------------------|--------------|----------------------|---------------------|----------------|
| Peak data | | | | | | | | |
| 1 120.33 ¹⁾ | V | 78.83 | 27.85 | -50.45 | - | 56.23 | 74.00 | 17.77 |
| 5 403.92 ¹⁾ | V | 50.90 | 34.65 | -26.76 | - | 58.79 | 74.00 | 15.21 |
| 7 092.97 | V | 65.94 | 35.40 | -52.25 | - | 49.09 | 68.20 | 19.11 |
| 10 641.91 ¹⁾ | V | 74.57 | 37.49 | -49.97 | - | 62.09 | 74.00 | 11.91 |
| 15 960.55 ¹⁾ | V | 52.25 | 40.09 | -48.79 | - | 43.55 | 74.00 | 30.45 |
| Average Data | | | | | | | | |
| 1 120.33 ¹⁾ | V | 72.98 | 27.85 | -50.45 | 0.22 | 50.60 | 54.00 | 3.40 |
| 5 403.92 ¹⁾ | V | 42.83 | 34.65 | -26.76 | 0.22 | 50.94 | 54.00 | 3.06 |
| 10 641.91 ¹⁾ | H | 62.70 | 37.49 | -49.97 | 0.22 | 50.44 | 54.00 | 3.56 |



Average data (1 120.33 MHz)**Average data (5 403.92 MHz)****Average data (10 641.91 MHz)**

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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**

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

Report No.:

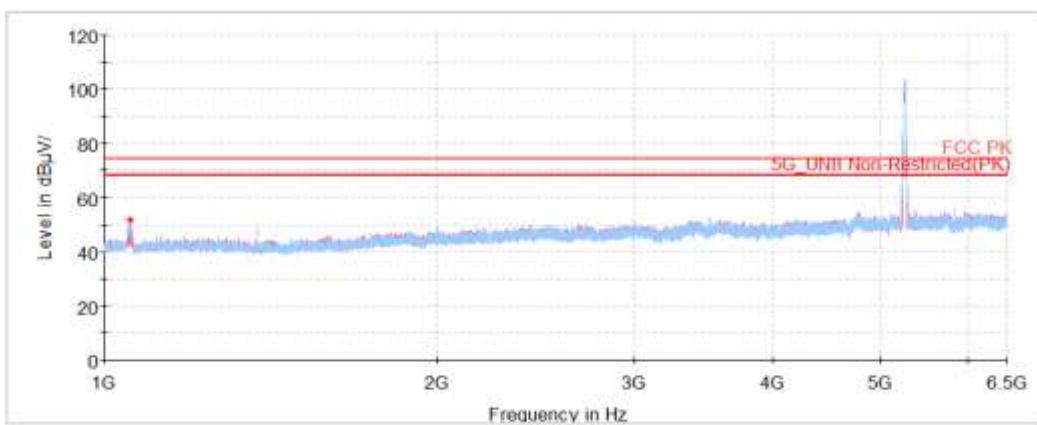
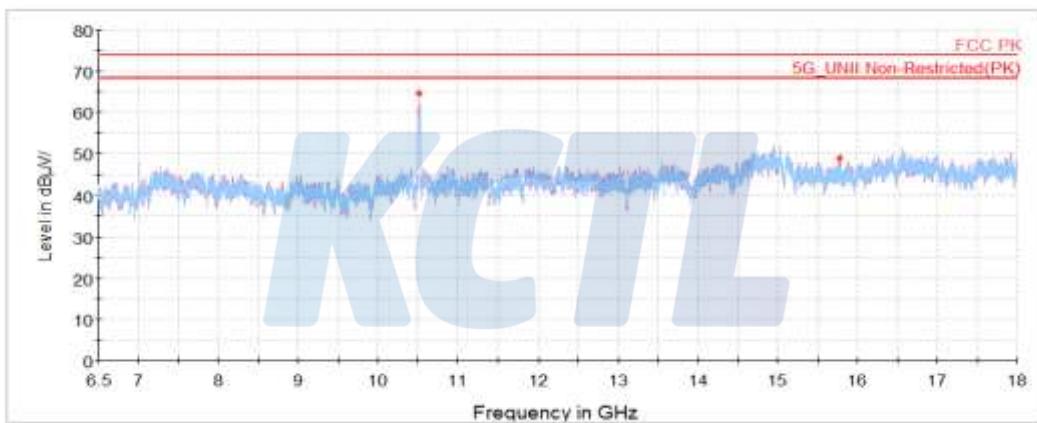
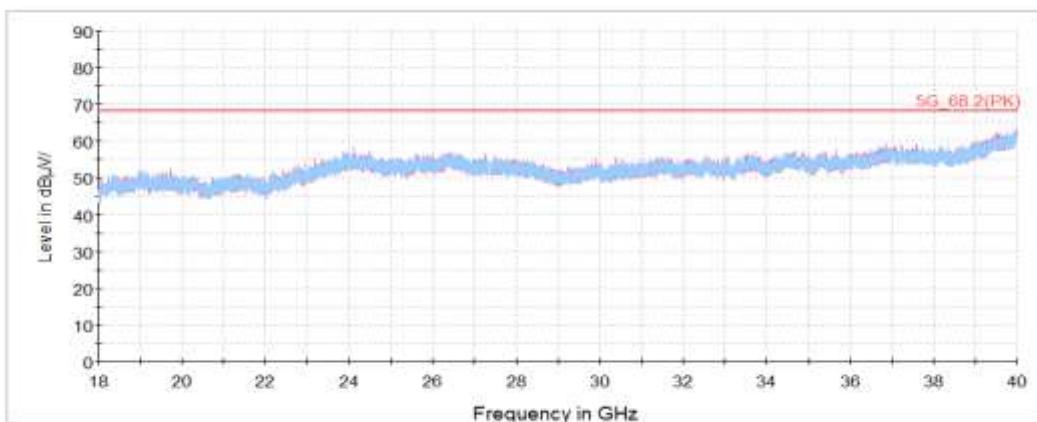
KR20-SRF0030-D

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**802.11n HT20 UNII 2A ANT 0****Lowest Channel (5 260 MHz)**

| Frequency (MHz) | Pol. | Reading (dB(µV)) | Antenna Factor (dB) | Amp. + Cable (dB) | DCCF (dB) | Result (dB(µV/m)) | Limit (dB(µV/m)) | Margin (dB) |
|--|------|---------------------|------------------------|----------------------|--------------|----------------------|---------------------|----------------|
| Peak data | | | | | | | | |
| 10 519.61 | H | 76.90 | 37.41 | -49.70 | - | 64.61 | 68.20 | 3.59 |
| 15 780.14 ¹⁾ | V | 57.55 | 40.06 | -48.70 | - | 48.91 | 74.00 | 25.09 |
| Average Data | | | | | | | | |
| 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**

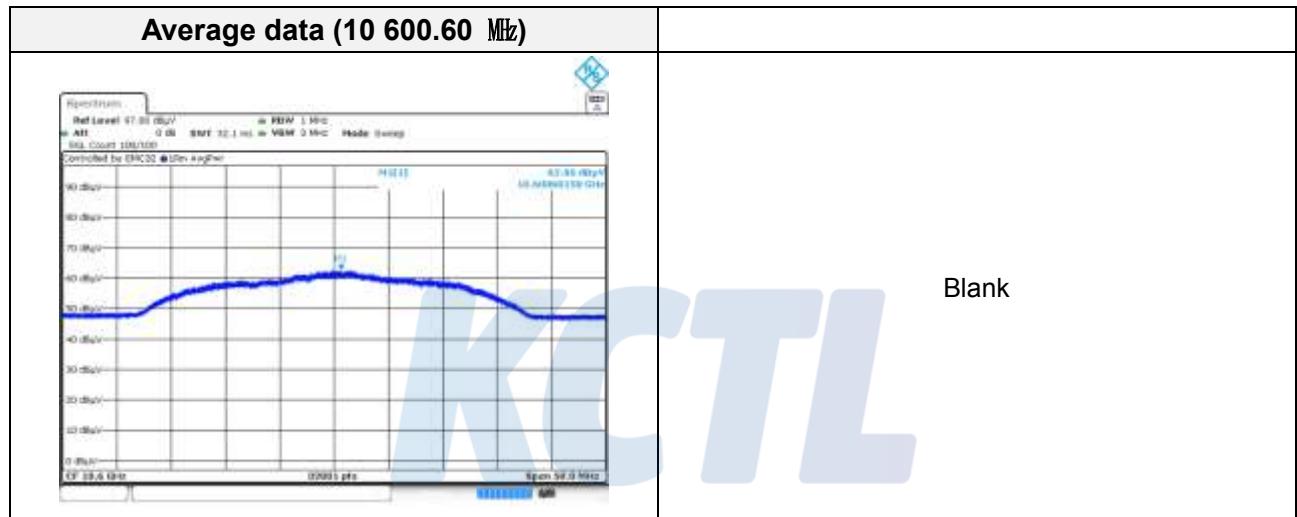
KCTL Inc.

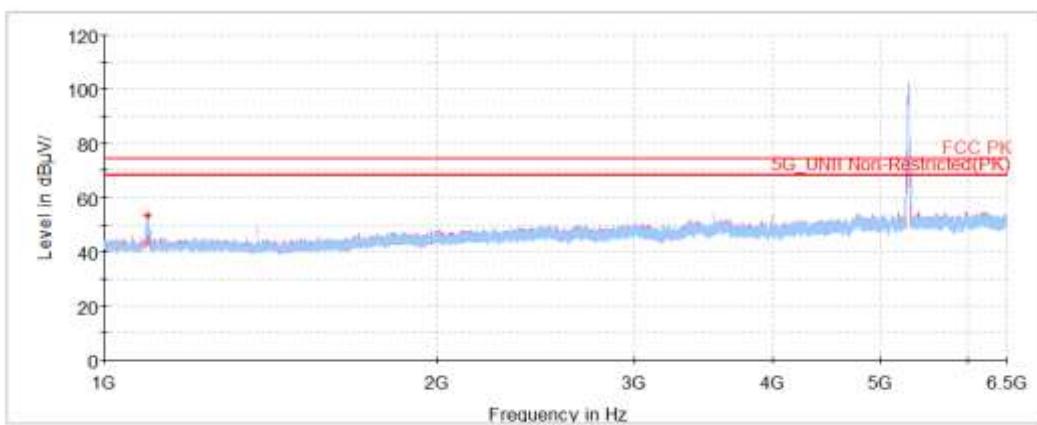
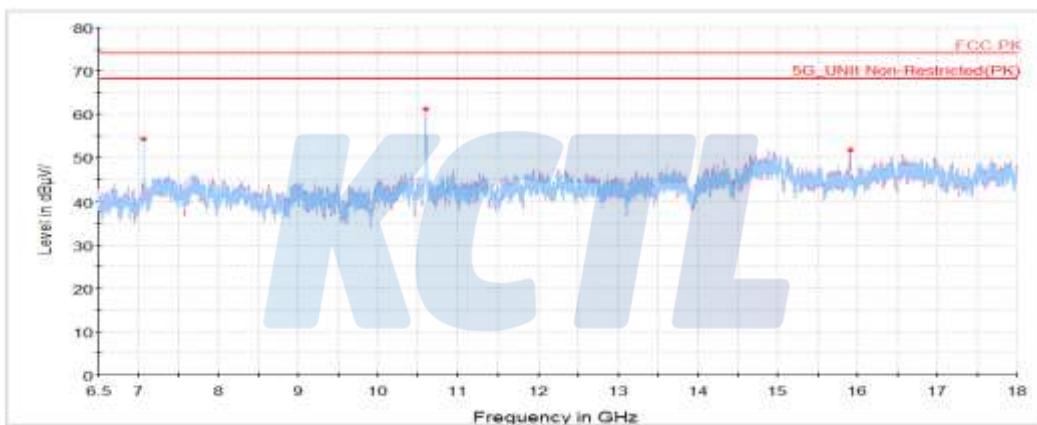
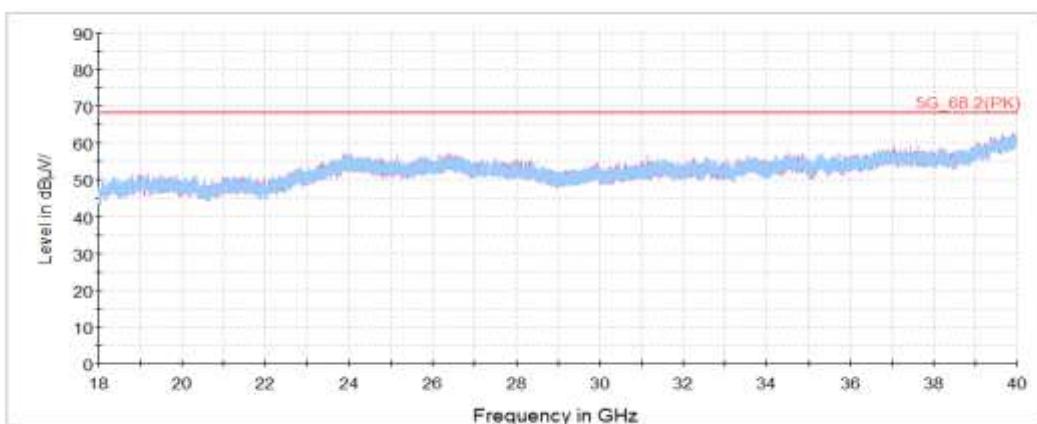
65, Sinwon-ro, Yeongtong-gu,
Suwon-si, Gyeonggi-do, 16677, Korea
TEL: 82-31-285-0894 FAX: 82-505-299-8311
www.kctl.co.kr

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**Middle Channel (5 300 MHz)**

| Frequency (MHz) | Pol. | Reading (dB(µV)) | Antenna Factor (dB) | Amp. + Cable (dB) | DCCF (dB) | Result (dB(µV/m)) | Limit (dB(µV/m)) | Margin (dB) |
|-------------------------|------|---------------------|------------------------|----------------------|--------------|----------------------|---------------------|----------------|
| Peak data | | | | | | | | |
| 7 066.73 | H | 71.15 | 35.40 | -52.37 | - | 54.18 | 68.20 | 14.02 |
| 10 600.60 ¹⁾ | V | 73.56 | 37.46 | -49.87 | - | 61.15 | 74.00 | 12.85 |
| 15 898.22 ¹⁾ | V | 60.39 | 40.08 | -48.76 | - | 51.71 | 74.00 | 22.29 |
| Average Data | | | | | | | | |
| 10 600.60 ¹⁾ | V | 62.86 | 37.46 | -49.87 | 0.22 | 50.67 | 54.00 | 3.33 |

Average data (10 600.60 MHz)

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

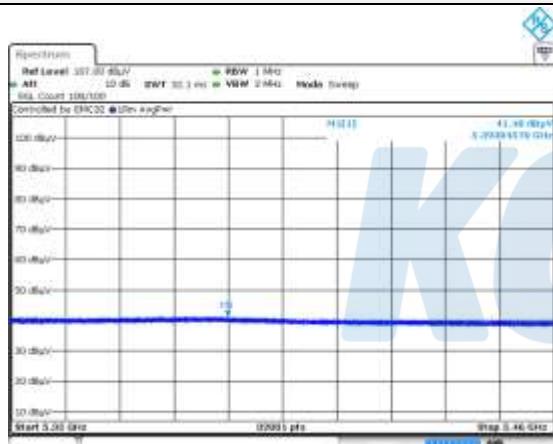
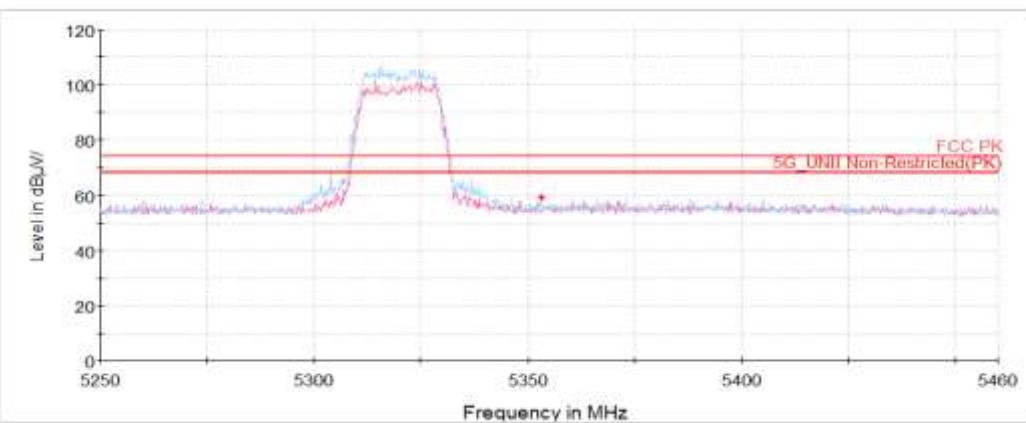
KCTL Inc.

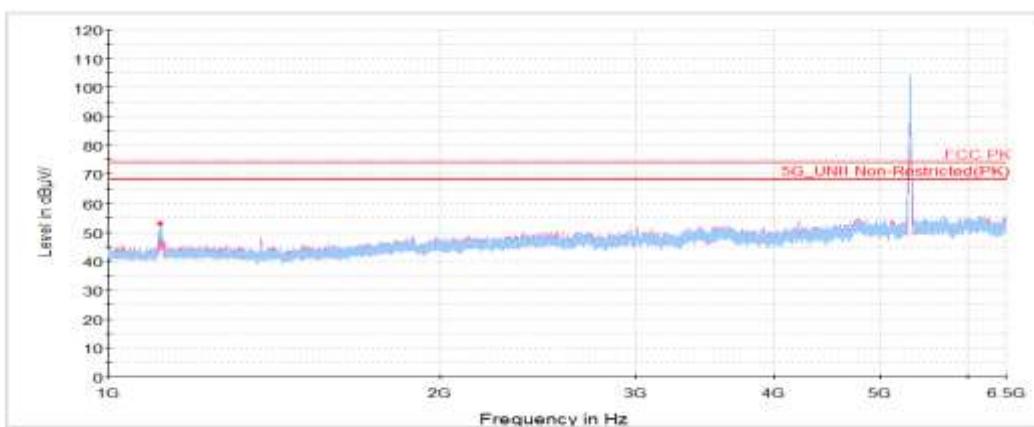
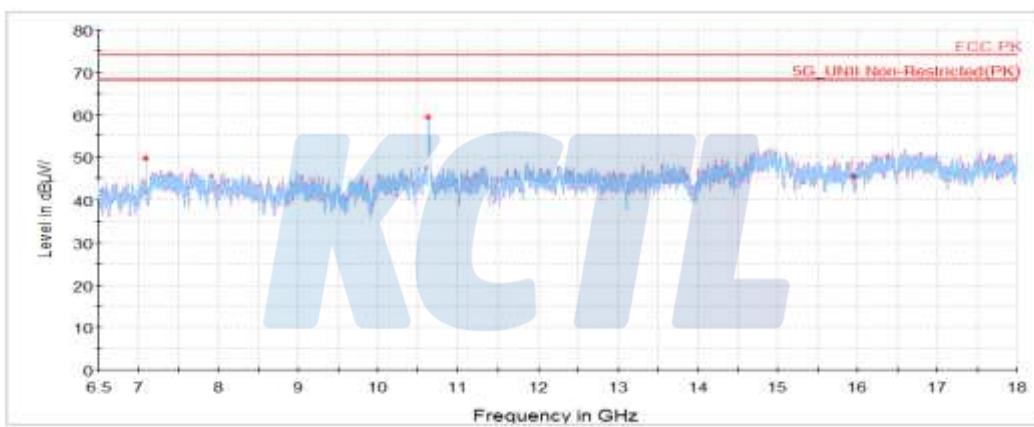
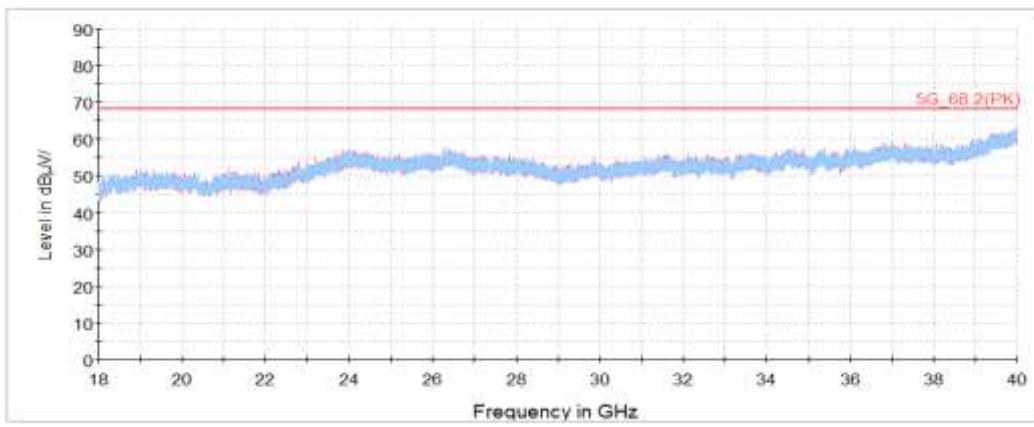
65, Sinwon-ro, Yeongtong-gu,
Suwon-si, Gyeonggi-do, 16677, Korea
TEL: 82-31-285-0894 FAX: 82-505-299-8311
www.kctl.co.kr

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

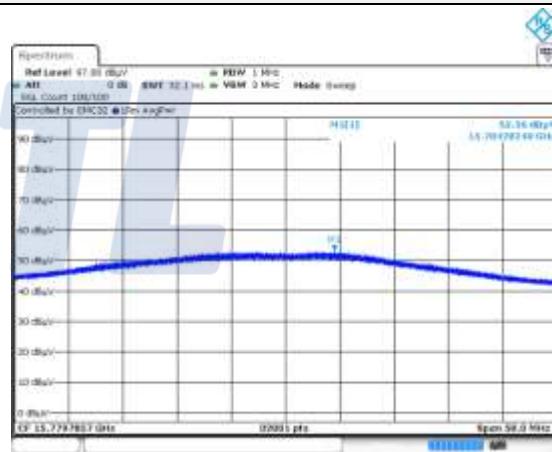
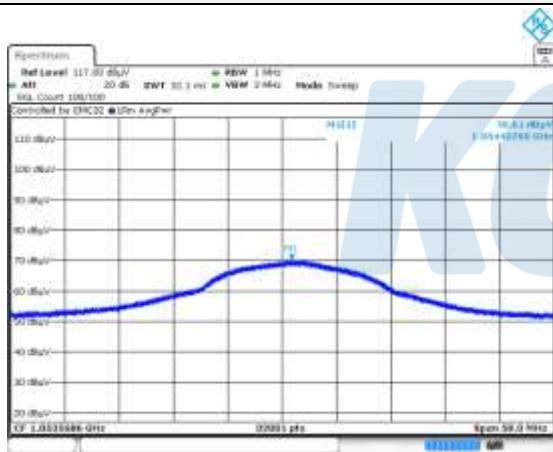
| Frequency | Pol. | Reading | Antenna Factor | Amp. + Cable | DCCF | Result | Limit | Margin |
|-------------------------|-------|----------------|----------------|--------------|------|------------------|------------------|--------|
| (MHz) | (V/H) | (dB(μ V)) | (dB) | (dB) | (dB) | (dB(μ V/m)) | (dB(μ V/m)) | (dB) |
| Peak data | | | | | | | | |
| 5 393.85 ¹⁾ | H | 50.93 | 34.63 | -26.73 | - | 58.83 | 74.00 | 15.17 |
| 7 092.97 | H | 66.49 | 35.40 | -52.25 | - | 49.64 | 68.20 | 18.56 |
| 10 638.28 ¹⁾ | H | 71.80 | 37.48 | -49.96 | - | 59.32 | 74.00 | 14.68 |
| 15 958.75 ¹⁾ | V | 54.03 | 40.09 | -48.79 | - | 45.33 | 74.00 | 28.67 |
| Average Data | | | | | | | | |
| 5 393.85 ¹⁾ | H | 41.48 | 34.63 | -26.73 | 0.22 | 49.60 | 54.00 | 4.40 |
| 10 638.28 ¹⁾ | H | 62.93 | 37.48 | -49.96 | 0.22 | 50.67 | 54.00 | 3.33 |

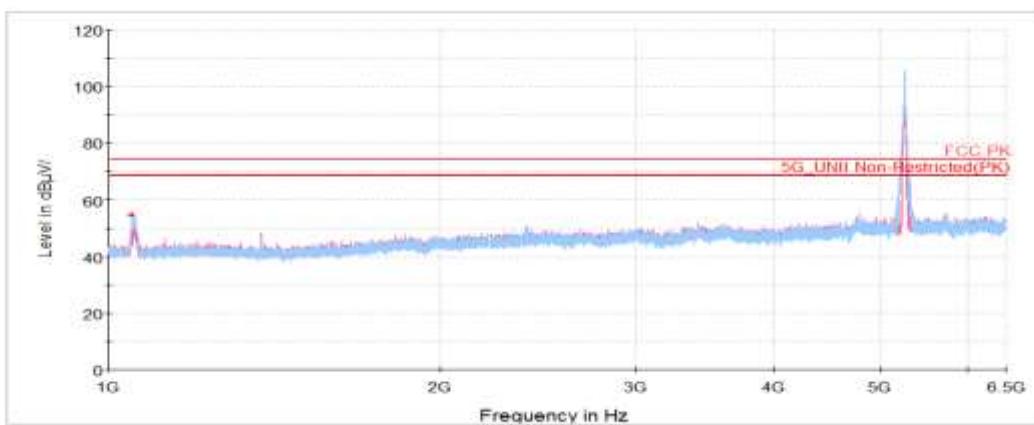
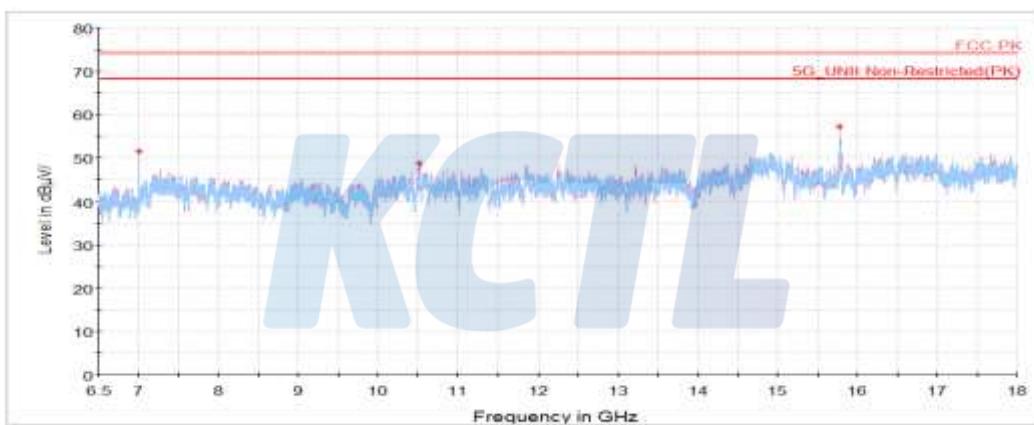
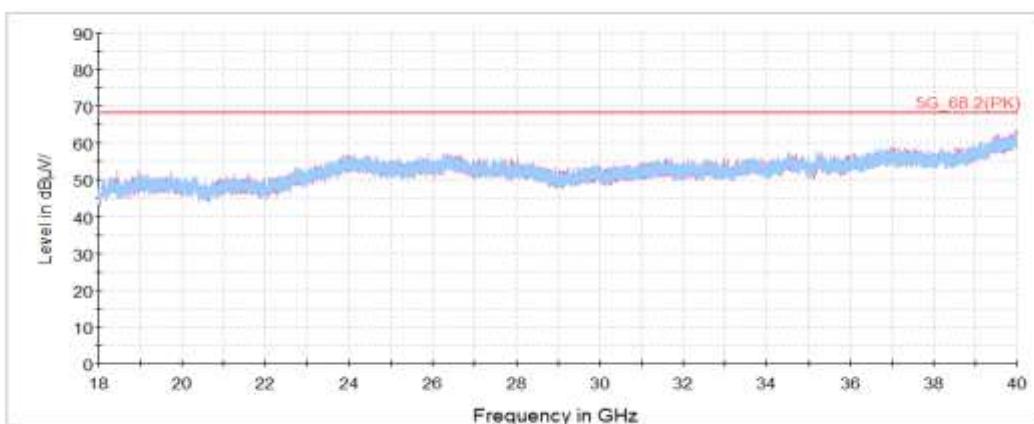
Average data (5 393.85 MHz)**Average data (10 638.28 MHz)****Horizontal/Vertical for Band-edge**

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 2A ANT 1**Lowest Channel (5 260 MHz)**

| Frequency (MHz) | Pol. | Reading (dB(μ V)) | Antenna Factor (dB) | Amp. + Cable (dB) | DCCF (dB) | Result (dB(μ V/m)) | Limit (dB(μ V/m)) | Margin (dB) |
|-------------------------|------|---------------------------|------------------------|----------------------|--------------|----------------------------|---------------------------|----------------|
| Peak data | | | | | | | | |
| 1 054.43 ¹⁾ | H | 77.58 | 27.82 | -50.61 | - | 54.79 | 74.00 | 19.21 |
| 7 013.55 | H | 68.69 | 35.40 | -52.62 | - | 51.47 | 68.20 | 16.73 |
| 10 517.81 | V | 60.98 | 37.41 | -49.69 | - | 48.70 | 68.20 | 19.50 |
| 15 784.28 ¹⁾ | V | 65.89 | 40.06 | -48.70 | - | 57.25 | 74.00 | 16.75 |
| Average Data | | | | | | | | |
| 1 054.43 ¹⁾ | H | 70.61 | 27.82 | -50.61 | 0.22 | 48.04 | 54.00 | 5.96 |
| 15 784.28 ¹⁾ | H | 53.36 | 40.06 | -48.70 | 0.22 | 44.94 | 54.00 | 9.06 |

Average data (1 054.43 MHz)**Average data (15 784.28 MHz)**

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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Suwon-si, Gyeonggi-do, 16677, Korea
TEL: 82-31-285-0894 FAX: 82-505-299-8311
www.kctl.co.kr

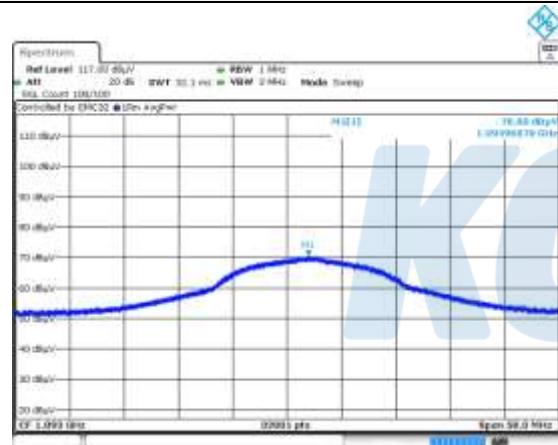
Report No.:

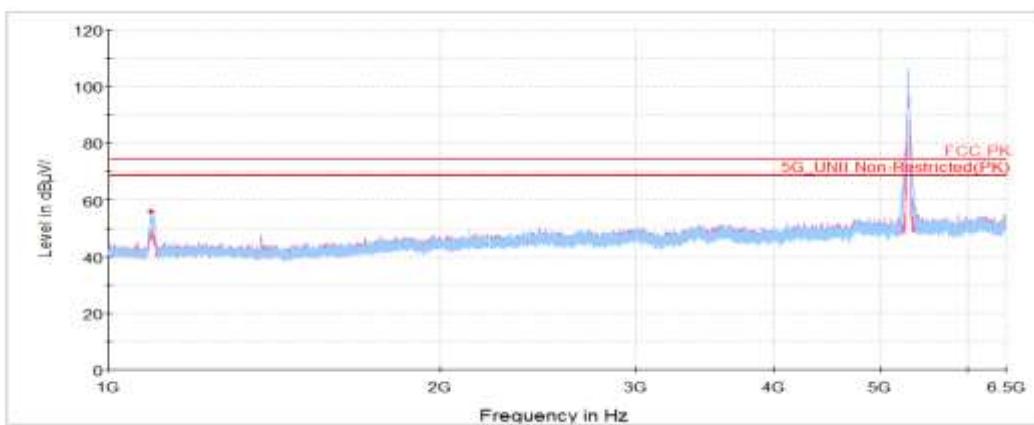
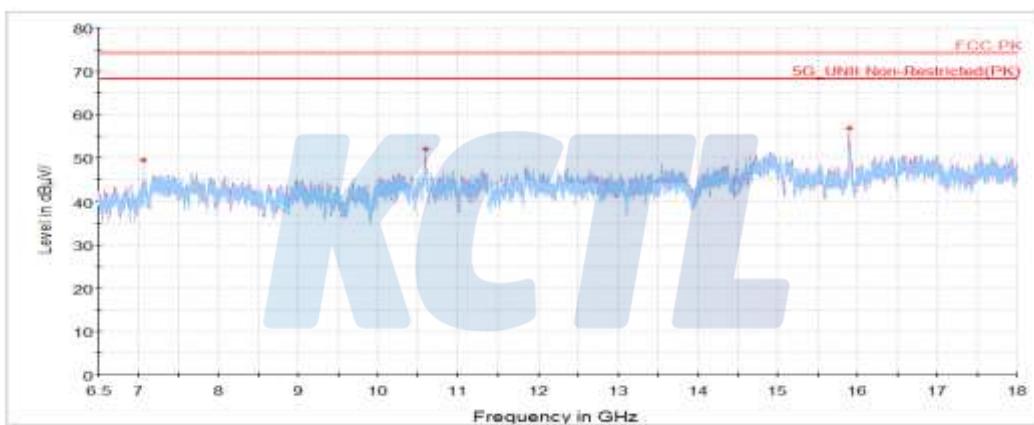
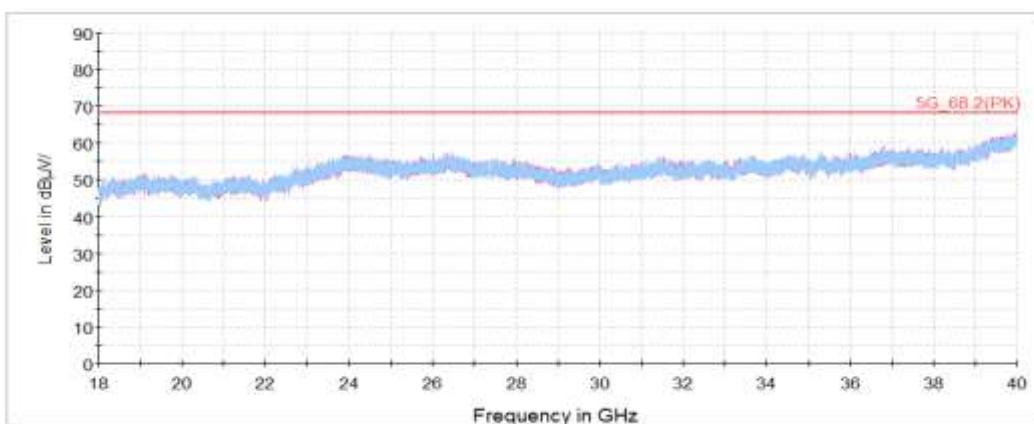
KR20-SRF0030-D

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KCTL**Middle Channel (5 300 MHz)**

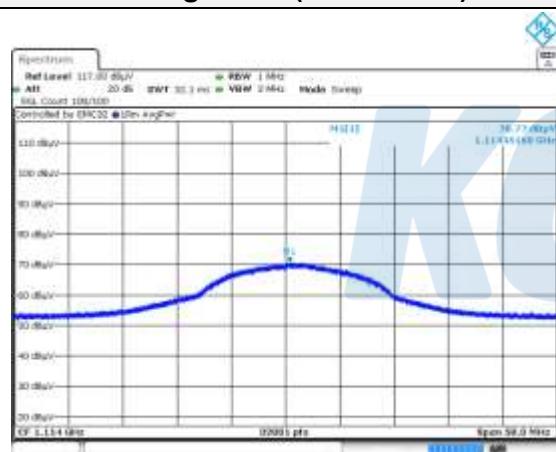
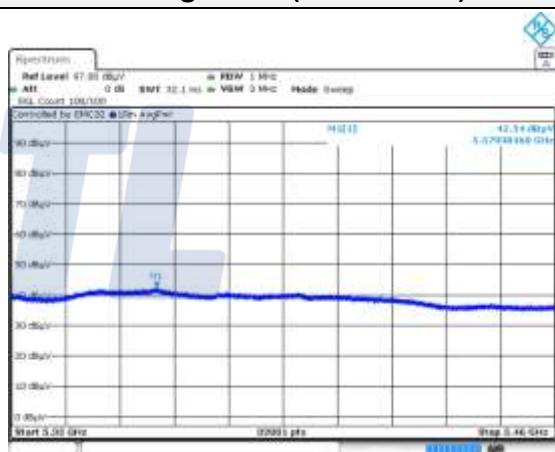
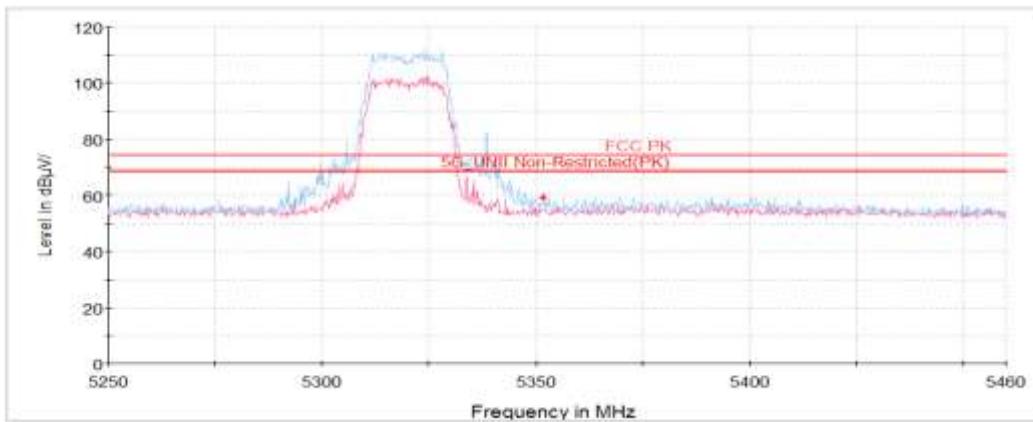
| Frequency | Pol. | Reading | Antenna Factor | Amp. + Cable | DCCF | Result | Limit | Margin |
|-------------------------|-------|----------------|----------------|--------------|------|------------------|------------------|--------|
| (MHz) | (V/H) | (dB(μ V)) | (dB) | (dB) | (dB) | (dB(μ V/m)) | (dB(μ V/m)) | (dB) |
| Peak data | | | | | | | | |
| 1 094.97 ¹⁾ | H | 78.73 | 27.84 | -50.62 | - | 55.95 | 74.00 | 18.05 |
| 7 066.38 | H | 66.36 | 35.40 | -52.37 | - | 49.39 | 68.20 | 18.81 |
| 10 602.74 ¹⁾ | V | 64.31 | 37.46 | -49.88 | - | 51.89 | 74.00 | 22.11 |
| 15 900.92 ¹⁾ | V | 65.46 | 40.08 | -48.76 | - | 56.78 | 74.00 | 17.22 |
| Average Data | | | | | | | | |
| 1 094.97 ¹⁾ | H | 70.80 | 27.84 | -50.62 | 0.22 | 48.24 | 54.00 | 5.76 |
| 15 900.92 ¹⁾ | V | 57.17 | 40.08 | -48.76 | 0.22 | 48.71 | 54.00 | 5.29 |

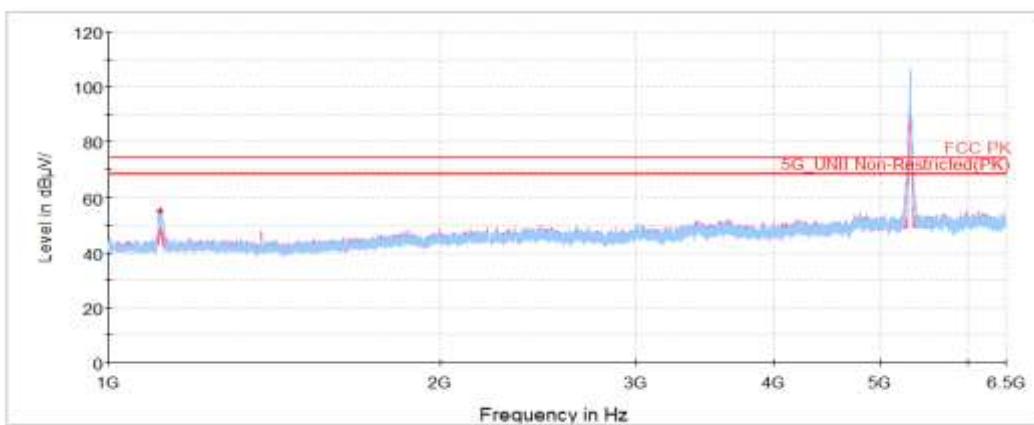
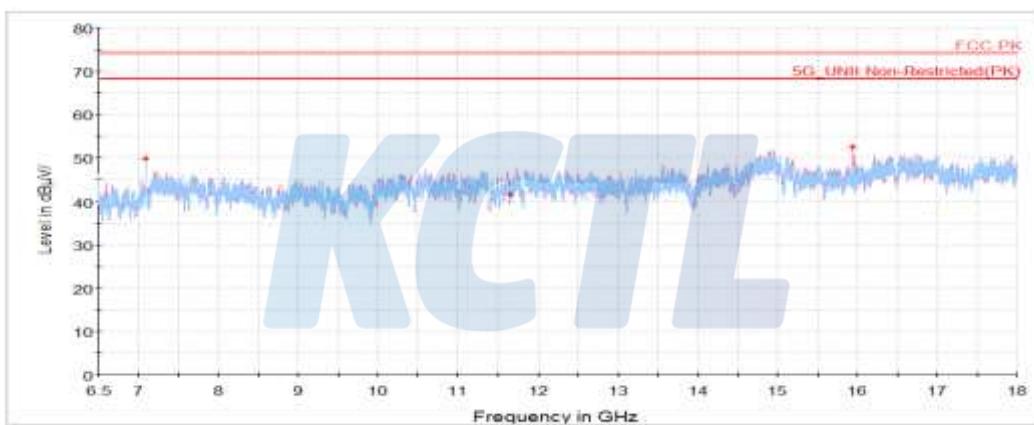
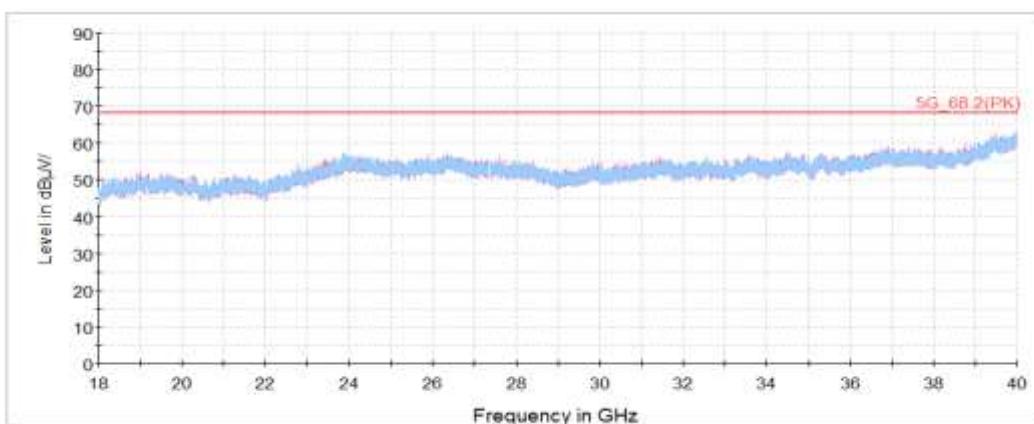
Average data (1 094.97 MHz)**Average data (15 900.92 MHz)**

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 (5 320 MHz)

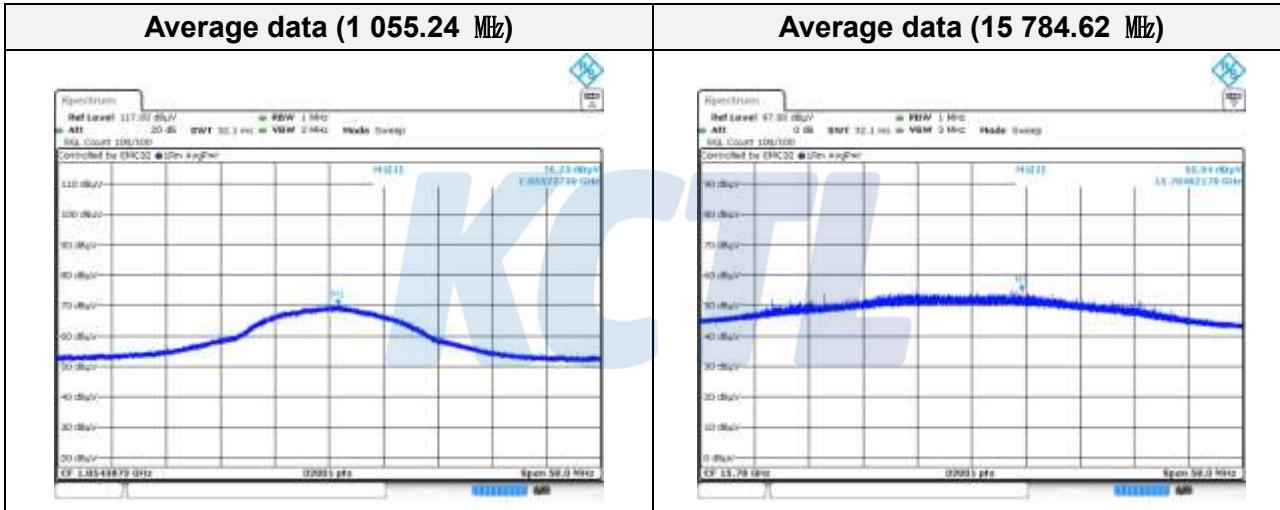
| Frequency | Pol. | Reading | Antenna Factor | Amp. + Cable | DCCF | Result | Limit | Margin |
|-------------------------|-------|----------------|----------------|--------------|------|------------------|------------------|--------|
| (MHz) | (V/H) | (dB(μ V)) | (dB) | (dB) | (dB) | (dB(μ V/m)) | (dB(μ V/m)) | (dB) |
| Peak data | | | | | | | | |
| 1 114.35 ¹⁾ | H | 77.80 | 27.85 | -50.50 | - | 55.15 | 74.00 | 18.85 |
| 5 379.38 ¹⁾ | H | 51.20 | 34.61 | -26.77 | - | 59.04 | 74.00 | 14.96 |
| 7 093.33 | H | 66.65 | 35.40 | -52.25 | - | 49.80 | 68.20 | 18.40 |
| 11 639.42 ¹⁾ | H | 53.46 | 38.17 | -50.14 | - | 41.49 | 74.00 | 32.51 |
| 15 952.72 ¹⁾ | V | 61.18 | 40.09 | -48.79 | - | 52.48 | 74.00 | 21.52 |
| Average Data | | | | | | | | |
| 1 114.35 ¹⁾ | H | 70.77 | 27.85 | -50.50 | 0.22 | 48.34 | 54.00 | 5.66 |
| 5 379.38 ¹⁾ | H | 42.54 | 34.61 | -26.77 | 0.22 | 50.60 | 54.00 | 3.40 |

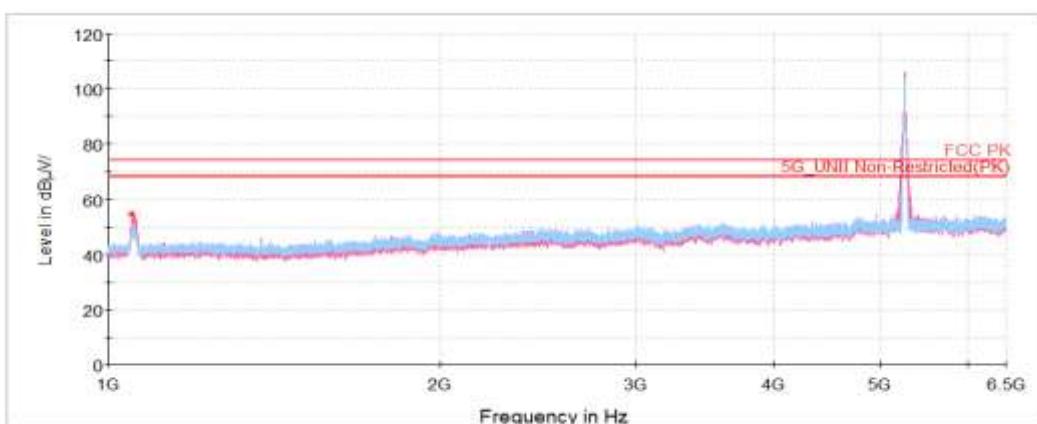
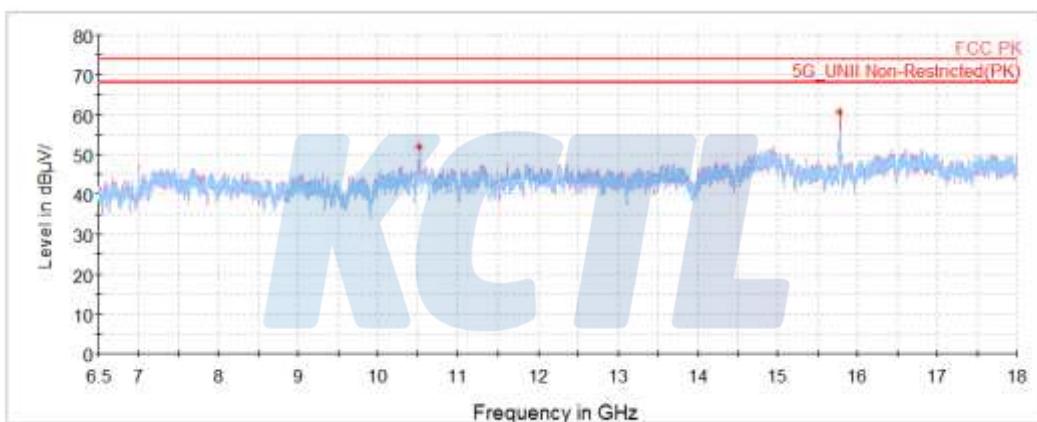
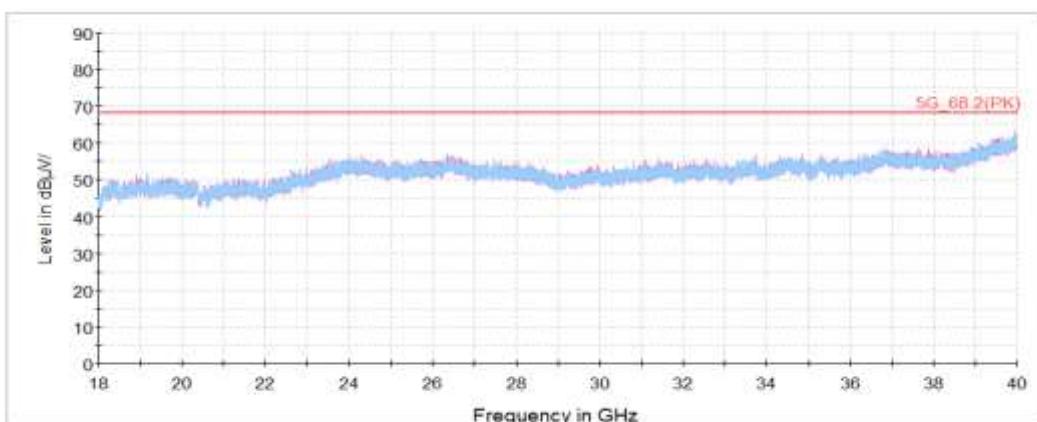
Average data (1 114.35 MHz)**Average data (5 379.38 MHz)****Horizontal/Vertical for Band-edge**

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 2A ANT 2**Lowest Channel (5 260 MHz)**

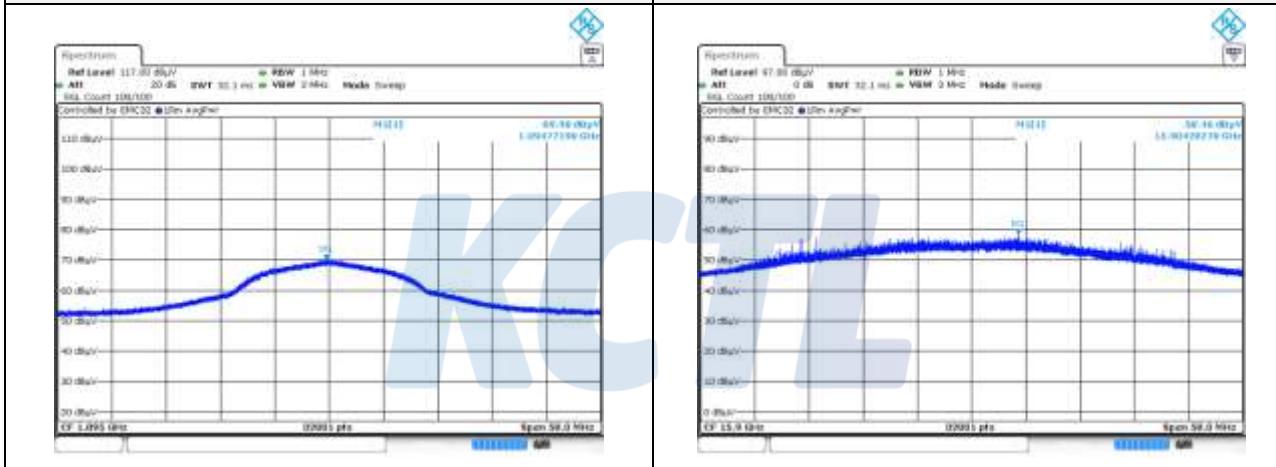
| Frequency (MHz) | Pol. | Reading (dB(µV)) | Antenna Factor (dB) | Amp. + Cable (dB) | DCCF (dB) | Result (dB(µV/m)) | Limit (dB(µV/m)) | Margin (dB) |
|-------------------------|------|---------------------|------------------------|----------------------|--------------|----------------------|---------------------|----------------|
| Peak data | | | | | | | | |
| 1 055.24 ¹⁾ | V | 77.37 | 27.82 | -50.61 | - | 54.58 | 74.00 | 19.42 |
| 10 519.25 | V | 64.07 | 37.41 | -49.69 | - | 51.79 | 68.20 | 16.41 |
| 15 784.62 ¹⁾ | V | 69.34 | 40.06 | -48.70 | - | 60.70 | 74.00 | 13.30 |
| Average Data | | | | | | | | |
| 1 055.24 ¹⁾ | V | 70.23 | 27.82 | -50.61 | 0.22 | 47.66 | 54.00 | 6.34 |
| 15 784.62 ¹⁾ | V | 55.04 | 40.06 | -48.70 | 0.22 | 46.62 | 54.00 | 7.38 |

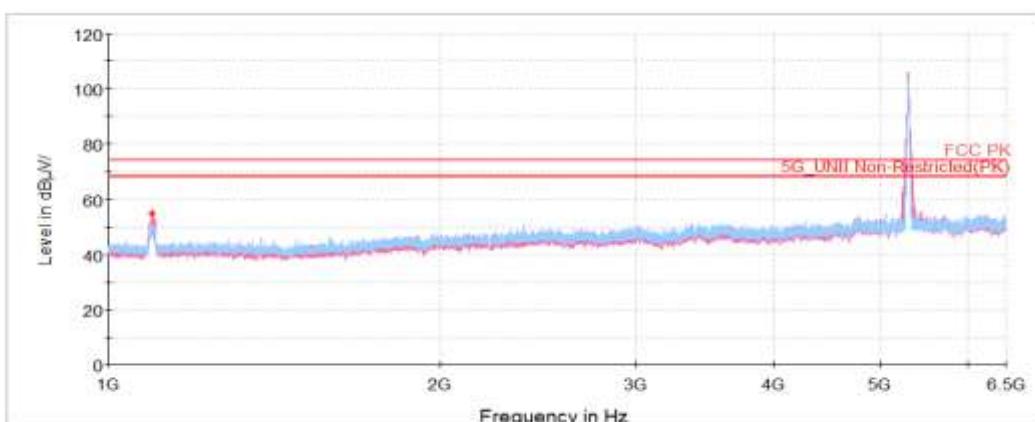
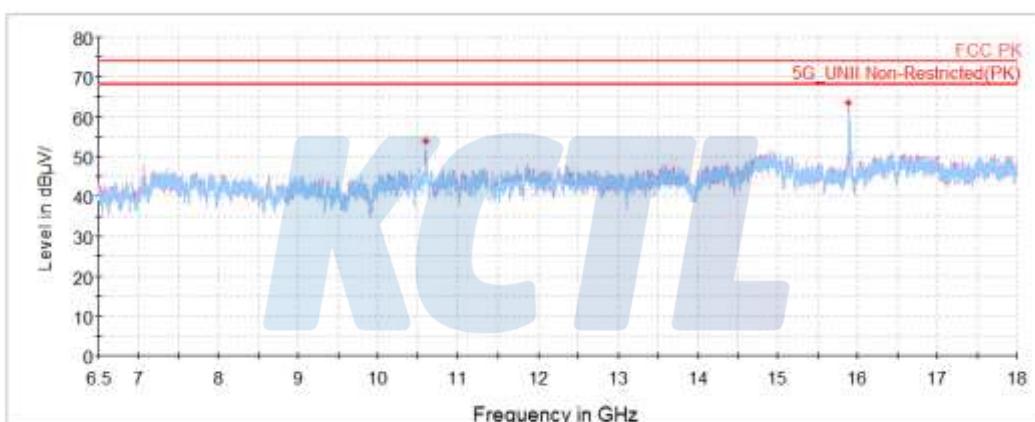
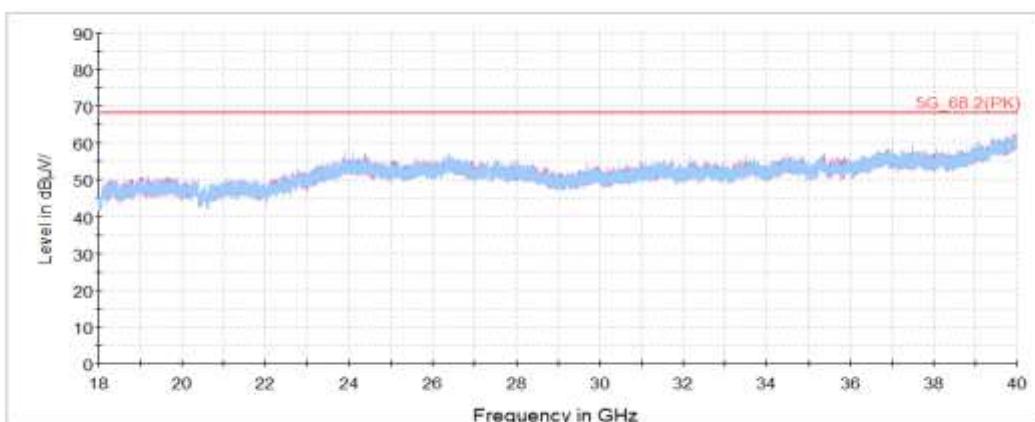
Average data (1 055.24 MHz)**Average data (15 784.62 MHz)**

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 (5 300 MHz)

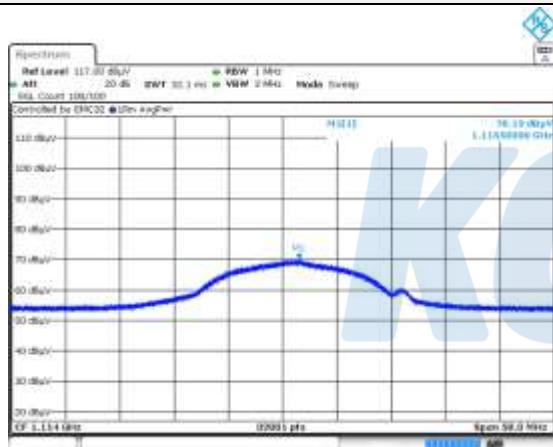
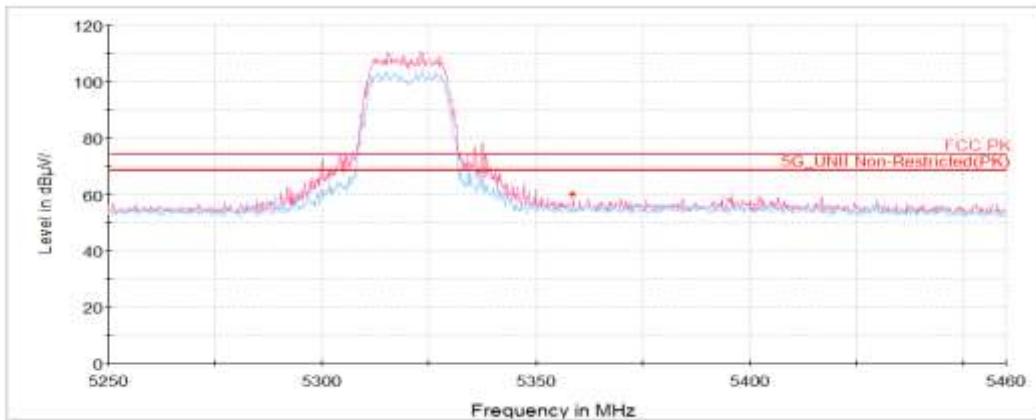
| Frequency | Pol. | Reading | Antenna Factor | Amp. + Cable | DCCF | Result | Limit | Margin |
|-------------------------|-------|----------------|----------------|--------------|------|------------------|------------------|--------|
| (MHz) | (V/H) | (dB(μ V)) | (dB) | (dB) | (dB) | (dB(μ V/m)) | (dB(μ V/m)) | (dB) |
| Peak data | | | | | | | | |
| 1 094.77 ¹⁾ | V | 77.73 | 27.84 | -50.62 | - | 54.95 | 74.00 | 19.05 |
| 10 600.03 ¹⁾ | V | 66.07 | 37.46 | -49.87 | - | 53.66 | 74.00 | 20.34 |
| 15 903.47 ¹⁾ | V | 72.00 | 40.08 | -48.76 | - | 63.32 | 74.00 | 10.68 |
| Average Data | | | | | | | | |
| 1 094.77 ¹⁾ | V | 69.98 | 27.84 | -50.62 | 0.22 | 47.42 | 54.00 | 6.58 |
| 15 903.47 ¹⁾ | V | 58.46 | 40.08 | -48.76 | 0.22 | 50.00 | 54.00 | 4.00 |

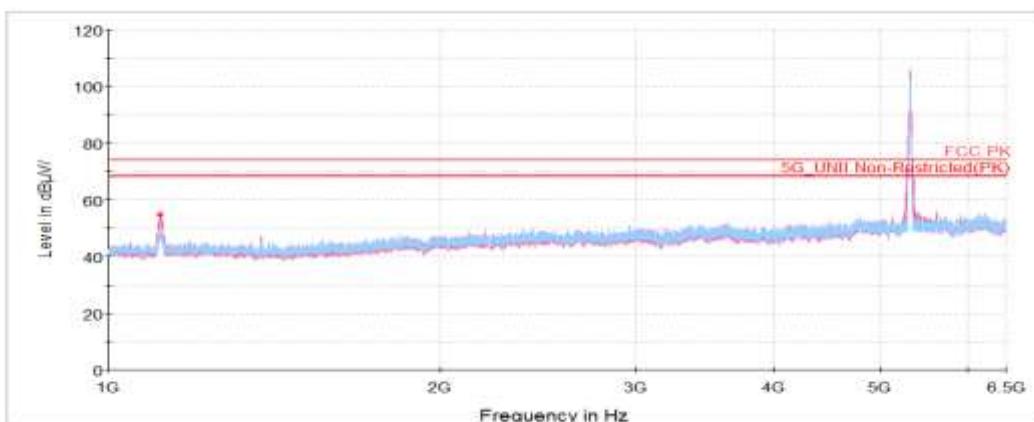
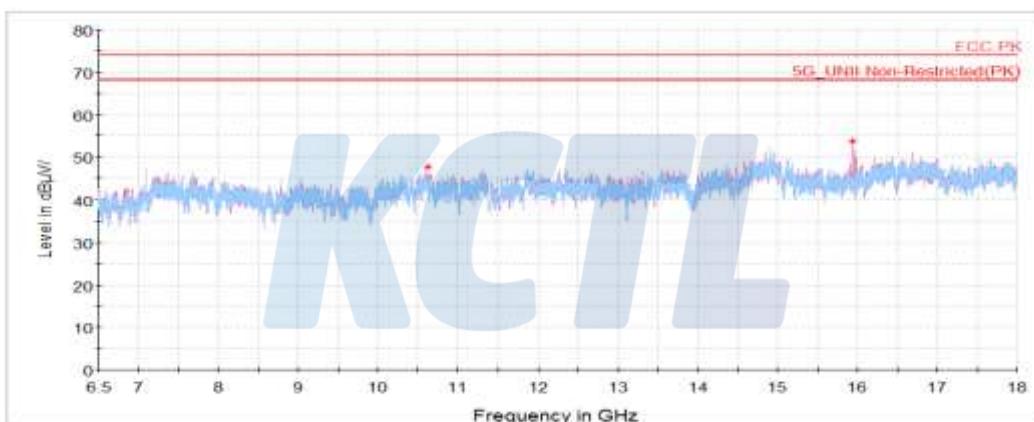
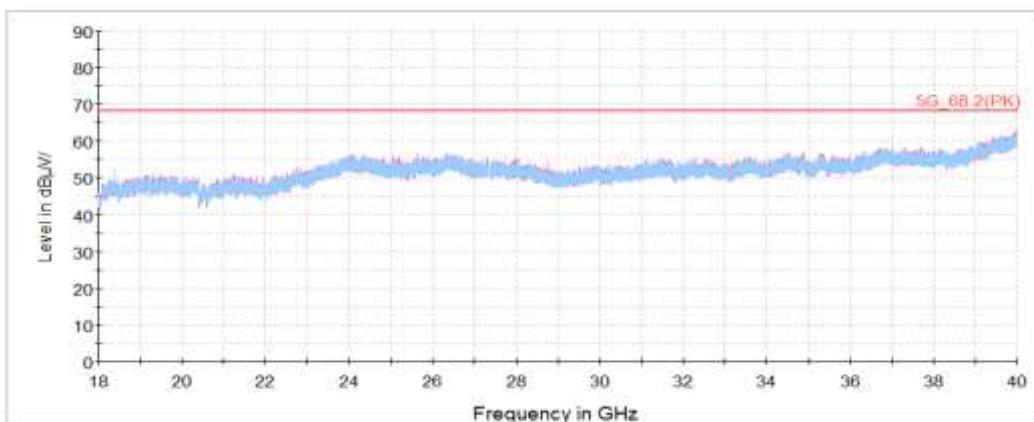
Average data (1 094.77 MHz)**Average data (15 903.47 MHz)**

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 (5 320 MHz)

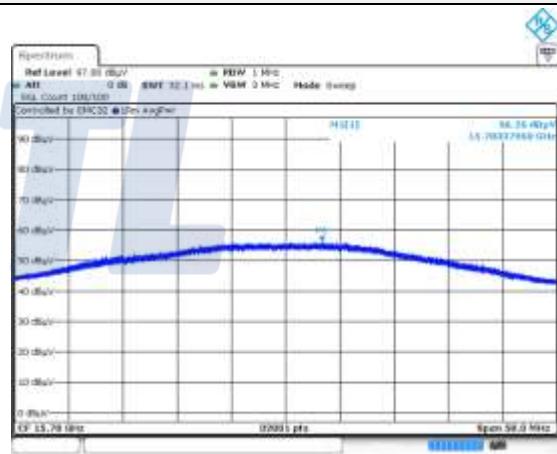
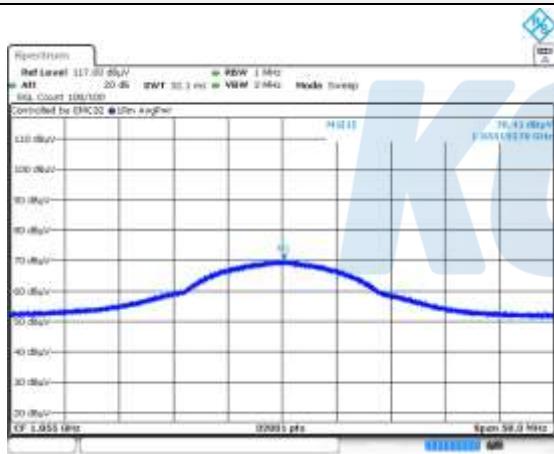
| Frequency | Pol. | Reading | Antenna Factor | Amp. + Cable | DCCF | Result | Limit | Margin |
|-------------------------|-------|----------------|----------------|--------------|------|------------------|------------------|--------|
| (MHz) | (V/H) | (dB(μ V)) | (dB) | (dB) | (dB) | (dB(μ V/m)) | (dB(μ V/m)) | (dB) |
| Peak data | | | | | | | | |
| 1 115.50 ¹⁾ | V | 77.65 | 27.85 | -50.49 | - | 55.01 | 74.00 | 18.99 |
| 5 350.25 ¹⁾ | V | 51.51 | 34.56 | -26.84 | - | 59.23 | 74.00 | 14.77 |
| 10 626.70 ¹⁾ | V | 60.16 | 37.48 | -49.93 | - | 47.71 | 74.00 | 26.29 |
| 15 944.24 ¹⁾ | V | 62.31 | 40.09 | -48.79 | - | 53.61 | 74.00 | 20.39 |
| Average Data | | | | | | | | |
| 1 115.50 ¹⁾ | V | 70.19 | 27.85 | -50.49 | 0.22 | 47.77 | 54.00 | 6.23 |
| 5 350.25 ¹⁾ | V | 42.34 | 34.56 | -26.84 | 0.22 | 50.28 | 54.00 | 3.72 |

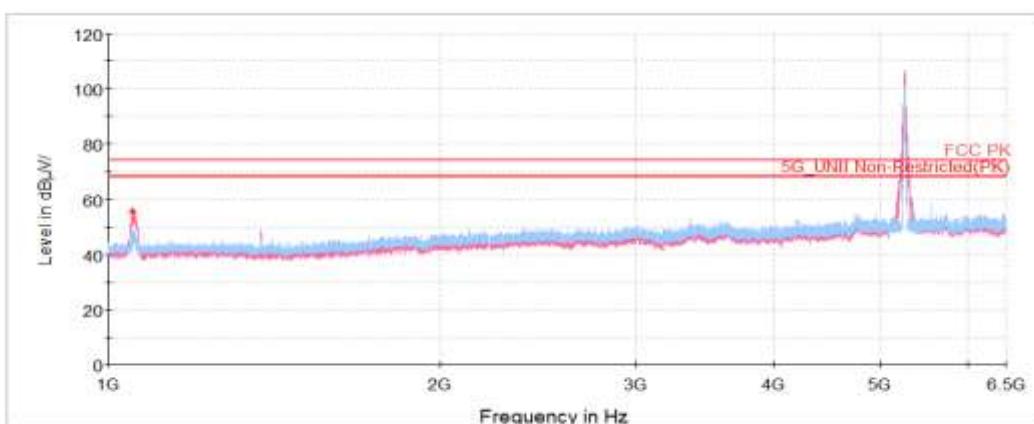
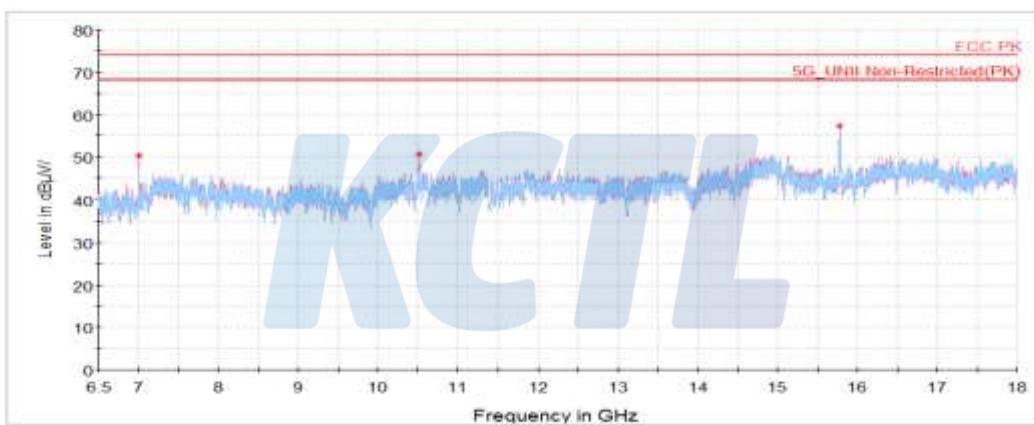
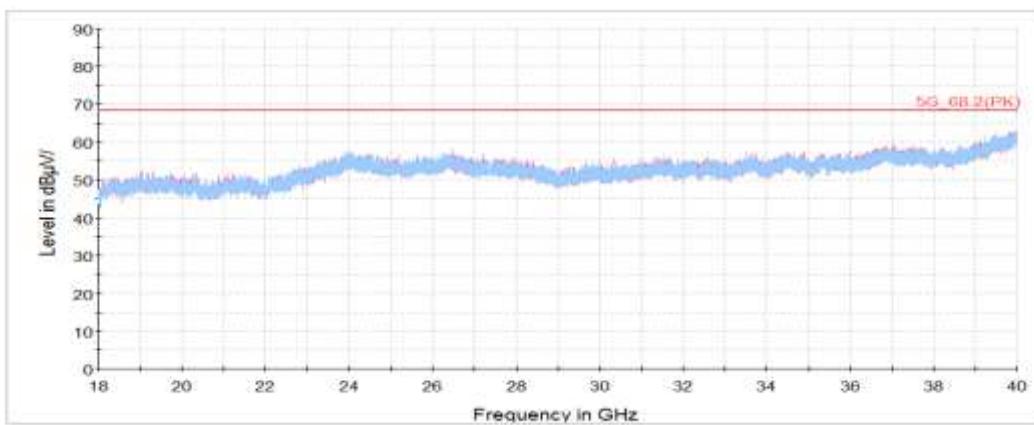
Average data (1 115.50 MHz)**Average data (5 350.25 MHz)****Horizontal/Vertical for Band-edge**

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 2A ANT 3**Lowest Channel (5 260 MHz)**

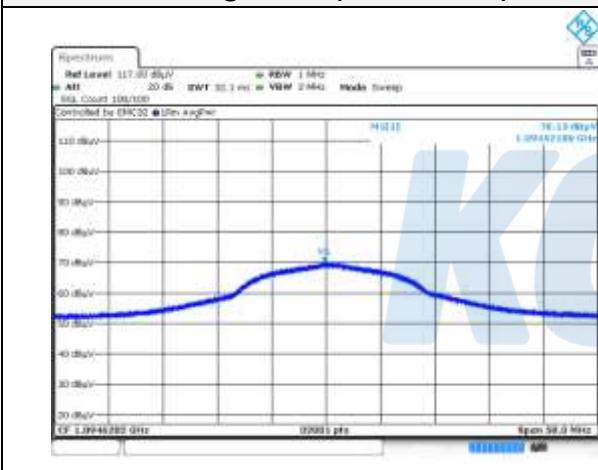
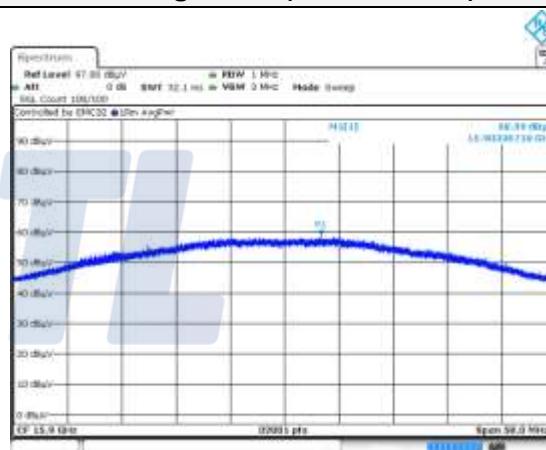
| Frequency (MHz) | Pol. | Reading (dB(μ V)) | Antenna Factor (dB) | Amp. + Cable (dB) | DCCF (dB) | Result (dB(μ V/m)) | Limit (dB(μ V/m)) | Margin (dB) |
|-------------------------|------|---------------------------|------------------------|----------------------|--------------|----------------------------|---------------------------|----------------|
| Peak data | | | | | | | | |
| 1 055.19 ¹⁾ | V | 78.54 | 27.82 | -50.61 | - | 55.75 | 74.00 | 18.25 |
| 7 013.19 | V | 67.41 | 35.40 | -52.62 | - | 50.19 | 68.20 | 18.01 |
| 10 519.25 | V | 62.90 | 37.41 | -49.69 | - | 50.62 | 68.20 | 17.58 |
| 15 783.38 ¹⁾ | V | 65.94 | 40.06 | -48.70 | - | 57.30 | 74.00 | 16.70 |
| Average Data | | | | | | | | |
| 1 055.19 ¹⁾ | V | 70.41 | 27.82 | -50.61 | 0.22 | 47.84 | 54.00 | 6.16 |
| 15 783.38 ¹⁾ | V | 56.26 | 40.06 | -48.70 | 0.22 | 47.84 | 54.00 | 6.16 |

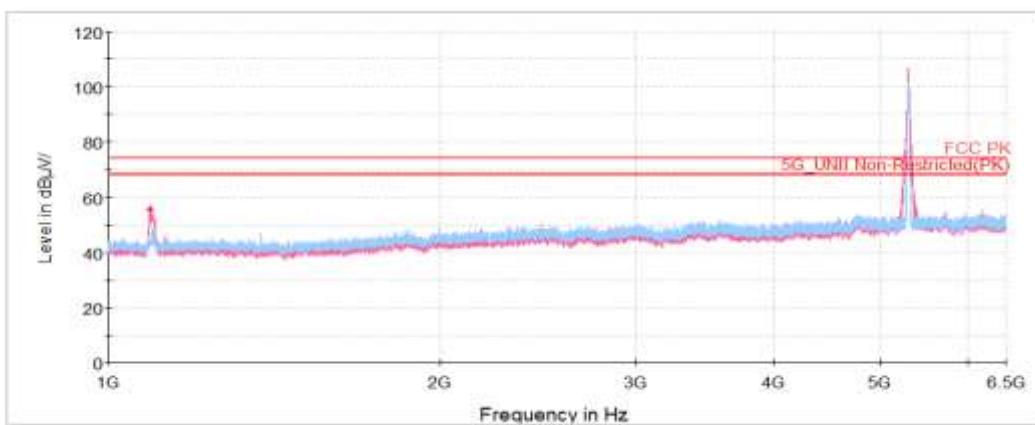
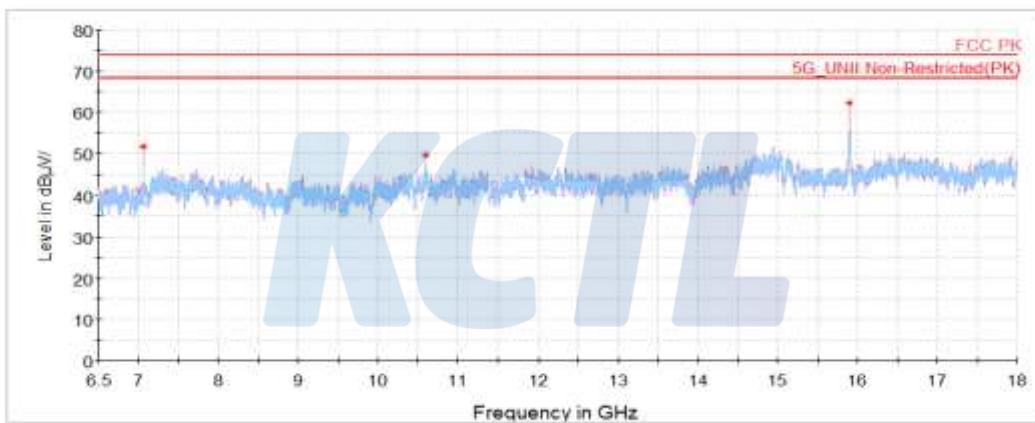
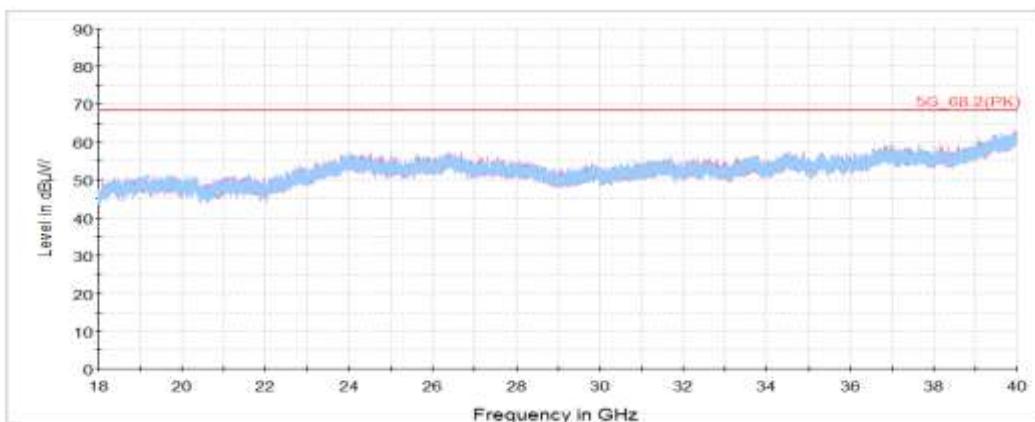
Average data (1 055.19 MHz)**Average data (15 783.38 MHz)**

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 (5 300 MHz)

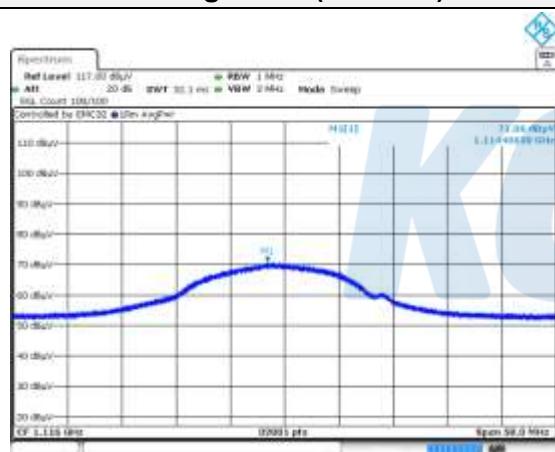
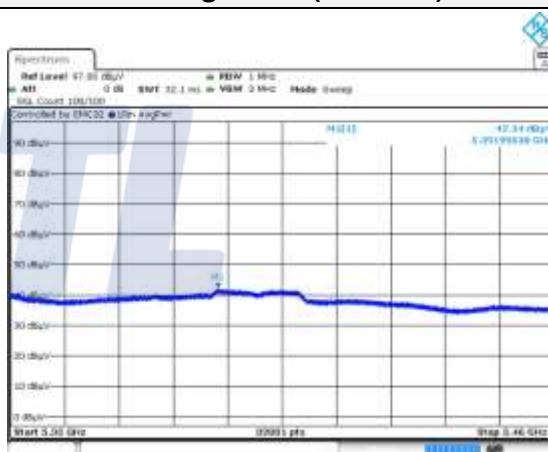
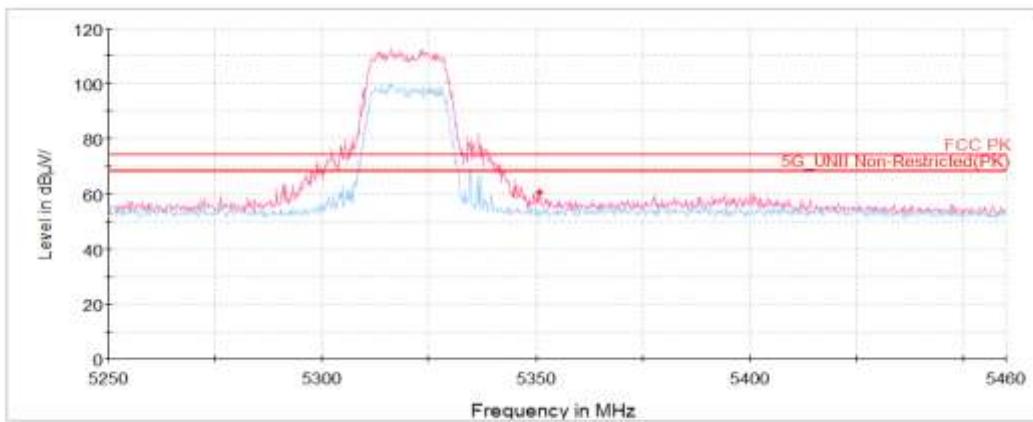
| Frequency | Pol. | Reading | Antenna Factor | Amp. + Cable | DCCF | Result | Limit | Margin |
|-------------------------|-------|----------------|----------------|--------------|------|------------------|------------------|--------|
| (MHz) | (V/H) | (dB(μ V)) | (dB) | (dB) | (dB) | (dB(μ V/m)) | (dB(μ V/m)) | (dB) |
| Peak data | | | | | | | | |
| 1 094.52 ¹⁾ | V | 78.61 | 27.84 | -50.62 | - | 55.83 | 74.00 | 18.17 |
| 7 066.73 | V | 68.66 | 35.40 | -52.37 | - | 51.69 | 68.20 | 16.51 |
| 10 602.98 | H | 62.13 | 37.46 | -49.88 | - | 49.71 | 74.00 | 24.29 |
| 15 903.37 ¹⁾ | V | 70.97 | 40.08 | -48.76 | - | 62.29 | 74.00 | 11.71 |
| Average Data | | | | | | | | |
| 1 094.52 ¹⁾ | V | 70.13 | 27.84 | -50.62 | 0.22 | 47.57 | 54.00 | 6.43 |
| 15 903.37 ¹⁾ | V | 58.99 | 40.08 | -48.76 | 0.22 | 50.53 | 54.00 | 3.47 |

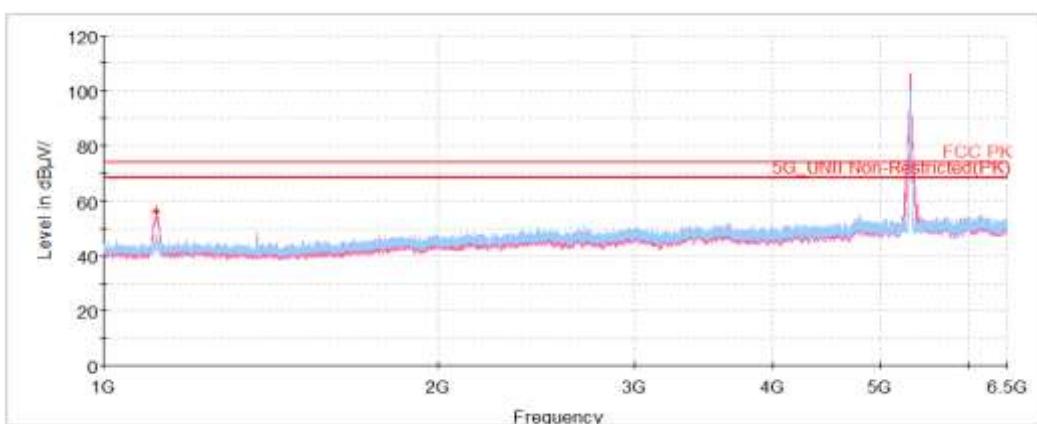
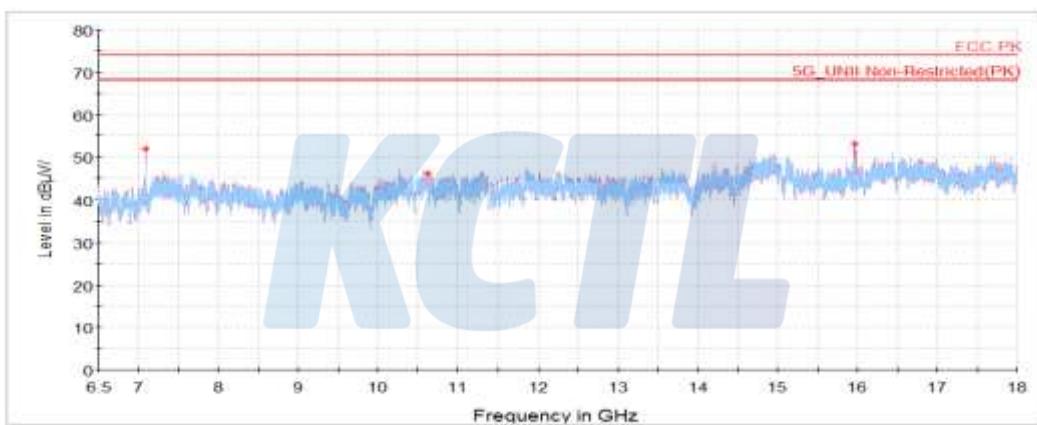
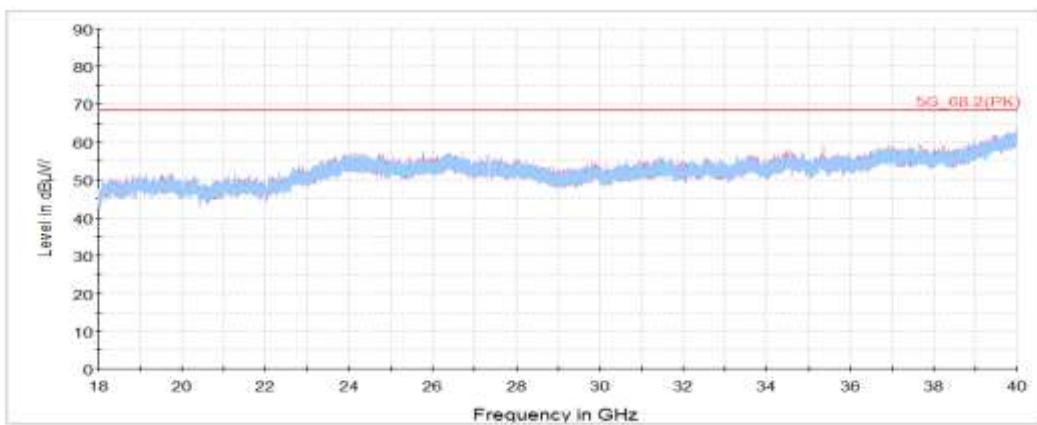
Average data (1 094.52 MHz)**Average data (15 903.37 MHz)**

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 (5 320 MHz)

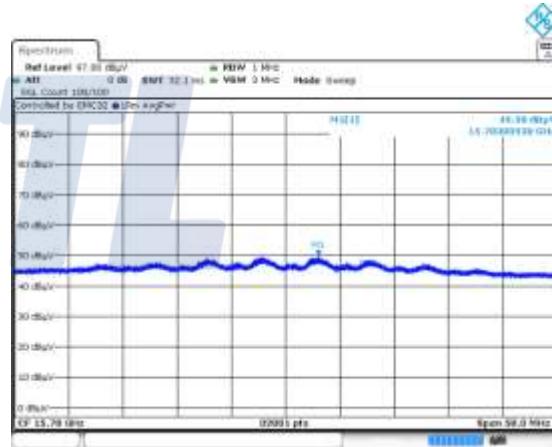
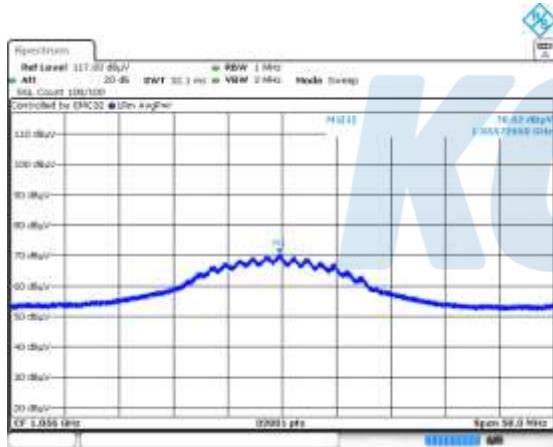
| Frequency | Pol. | Reading | Antenna Factor | Amp. + Cable | DCCF | Result | Limit | Margin |
|-------------------------|-------|----------------|----------------|--------------|------|------------------|------------------|--------|
| (MHz) | (V/H) | (dB(μ V)) | (dB) | (dB) | (dB) | (dB(μ V/m)) | (dB(μ V/m)) | (dB) |
| Peak data | | | | | | | | |
| 1 114.41 ¹⁾ | V | 78.88 | 27.85 | -50.50 | - | 56.23 | 74.00 | 17.77 |
| 5 392.00 ¹⁾ | V | 52.51 | 34.63 | -26.74 | - | 60.40 | 74.00 | 13.60 |
| 7 093.33 | V | 68.76 | 35.40 | -52.25 | - | 51.91 | 68.20 | 16.29 |
| 10 633.17 ¹⁾ | V | 58.45 | 37.48 | -49.95 | - | 45.98 | 74.00 | 28.02 |
| 15 956.07 ¹⁾ | V | 61.80 | 40.09 | -48.79 | - | 53.10 | 74.00 | 20.90 |
| Average Data | | | | | | | | |
| 1 114.41 ¹⁾ | V | 71.06 | 27.85 | -50.50 | 0.22 | 48.63 | 54.00 | 5.37 |
| 5 392.00 ¹⁾ | V | 42.34 | 34.63 | -26.74 | 0.22 | 50.45 | 54.00 | 3.55 |

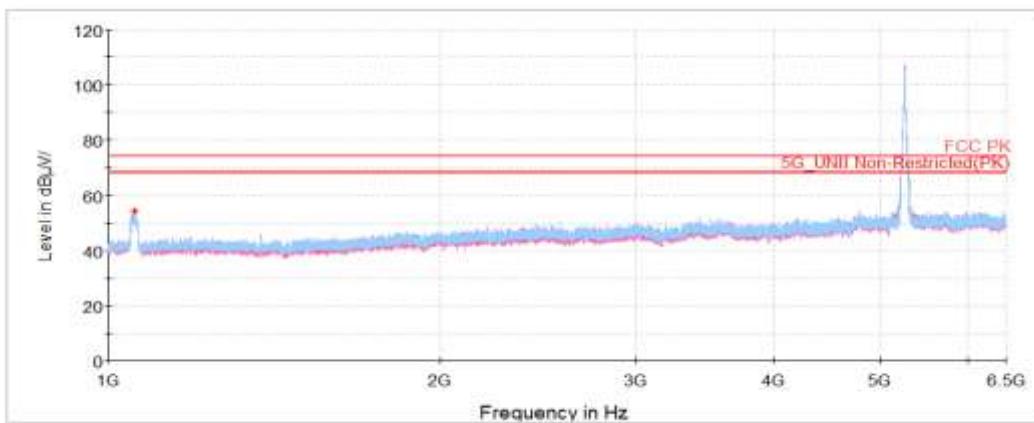
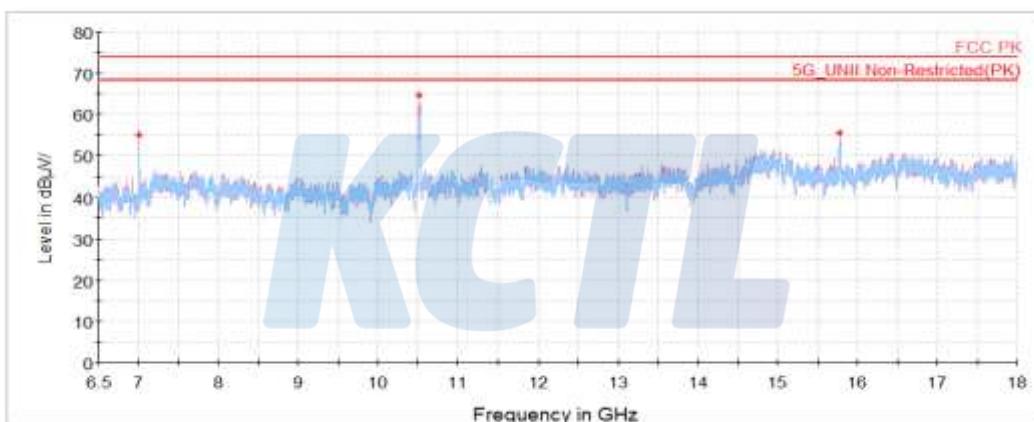
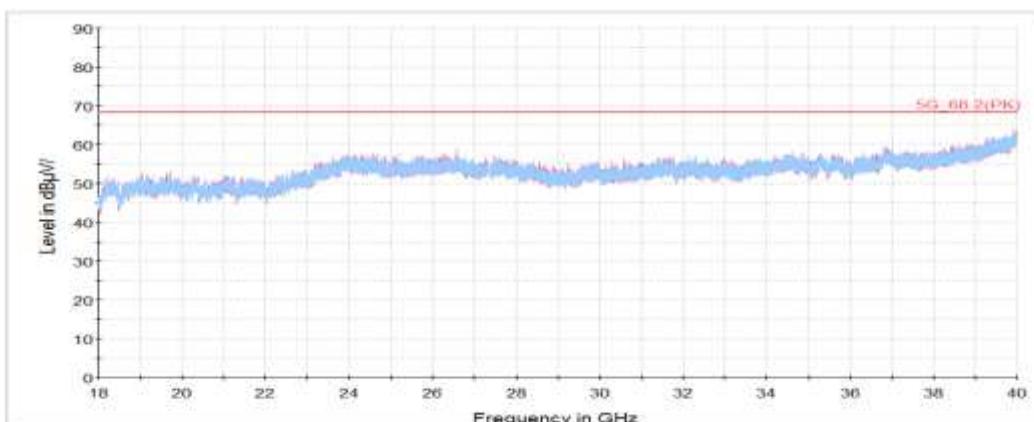
Average data (1 114.41)**Average data (5 392.00)****Horizontal/Vertical for Band-edge**

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 2A 4TX MIMO**Lowest Channel (5 260 MHz)**

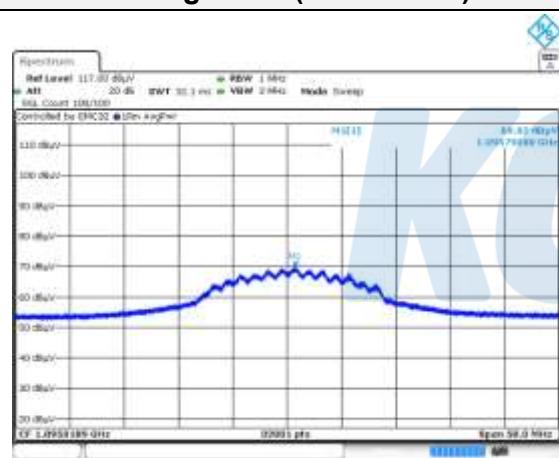
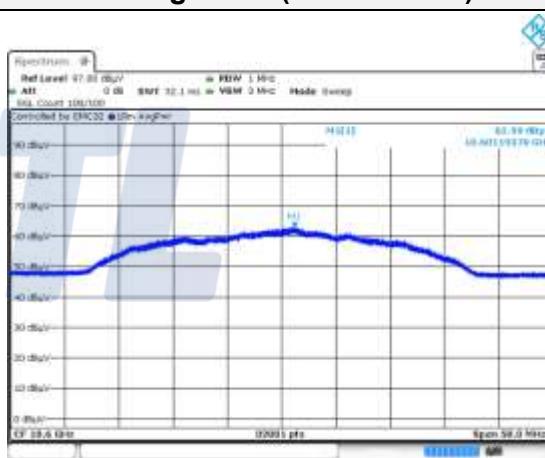
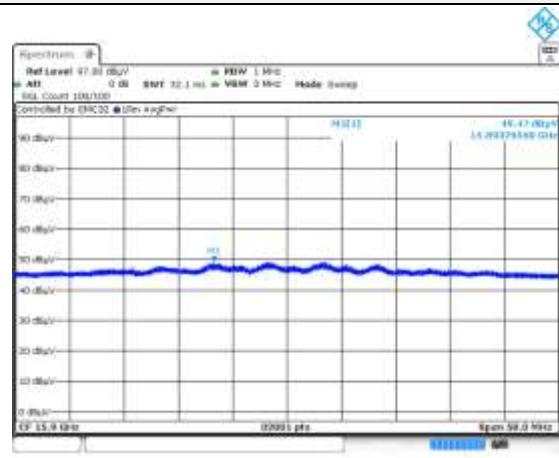
| Frequency (MHz) | Pol. | Reading (dB(μ V)) | Antenna Factor (dB) | Amp. + Cable (dB) | DCCF (dB) | Result (dB(μ V/m)) | Limit (dB(μ V/m)) | Margin (dB) |
|-------------------------|------|---------------------------|------------------------|----------------------|--------------|----------------------------|---------------------------|----------------|
| Peak data | | | | | | | | |
| 1 055.73 ¹⁾ | V | 77.01 | 27.82 | -50.61 | - | 54.22 | 74.00 | 19.78 |
| 7 013.55 | H | 72.26 | 35.40 | -52.62 | - | 55.04 | 68.20 | 13.16 |
| 10 521.41 | V | 76.87 | 37.41 | -49.70 | - | 64.58 | 68.20 | 3.62 |
| 15 783.01 ¹⁾ | V | 64.11 | 40.06 | -48.70 | - | 55.47 | 74.00 | 18.53 |
| Average Data | | | | | | | | |
| 1 055.73 ¹⁾ | V | 70.62 | 27.82 | -50.61 | 0.22 | 48.05 | 54.00 | 5.95 |
| 15 783.01 ¹⁾ | V | 49.98 | 40.06 | -48.70 | 0.22 | 41.56 | 54.00 | 12.44 |

Average data (1 055.73 MHz)**Average data (15 783.01 MHz)**

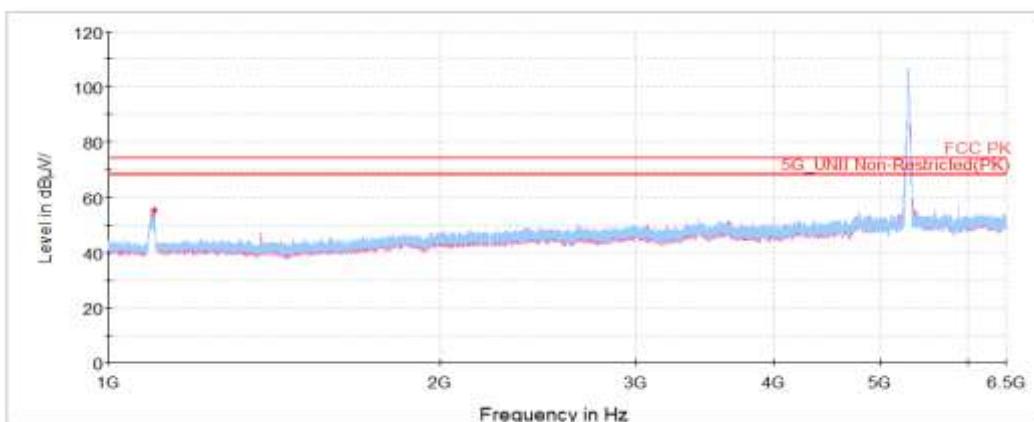
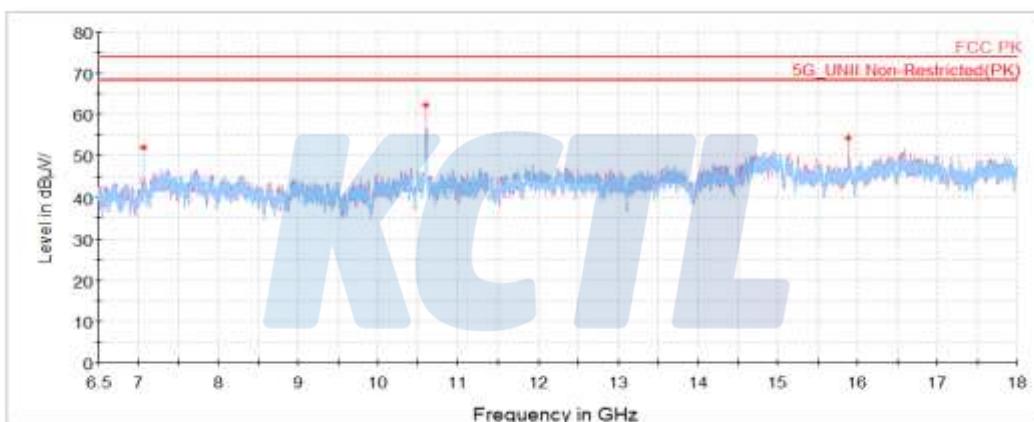
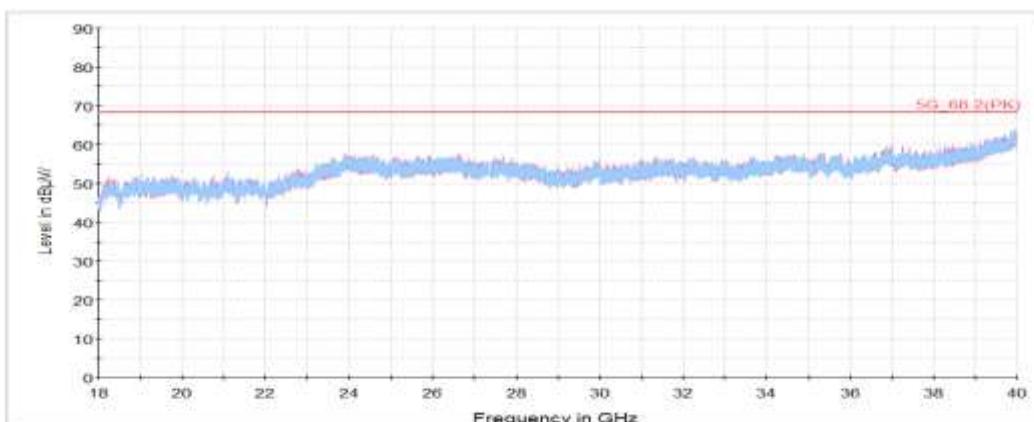
Horizontal/Vertical for 1 GHz ~ 6.5 GHz**Horizontal/Vertical for 6.5 GHz ~ 18 GHz****Horizontal/Vertical for 18 GHz ~ 40 GHz**

Middle Channel (5 300 MHz)

| Frequency | Pol. | Reading | Antenna Factor | Amp. + Cable | DCCF | Result | Limit | Margin |
|-------------------------|-------|----------------|----------------|--------------|------|------------------|------------------|--------|
| (MHz) | (V/H) | (dB(μ V)) | (dB) | (dB) | (dB) | (dB(μ V/m)) | (dB(μ V/m)) | (dB) |
| Peak data | | | | | | | | |
| 1 095.79 ¹⁾ | V | 78.33 | 27.84 | -50.62 | - | 55.55 | 74.00 | 18.45 |
| 7 066.73 | H | 68.93 | 35.40 | -52.37 | - | 51.96 | 68.20 | 16.24 |
| 10 601.19 ¹⁾ | V | 74.73 | 37.46 | -49.88 | - | 62.31 | 74.00 | 11.69 |
| 15 893.30 ¹⁾ | V | 62.84 | 40.08 | -48.76 | - | 54.16 | 74.00 | 19.84 |
| Average Data | | | | | | | | |
| 1 095.79 ¹⁾ | V | 69.82 | 27.84 | -50.62 | 0.22 | 47.26 | 54.00 | 6.74 |
| 10 601.19 ¹⁾ | V | 62.99 | 37.46 | -49.88 | 0.22 | 50.79 | 54.00 | 3.21 |
| 15 893.30 ¹⁾ | V | 49.47 | 40.08 | -48.76 | 0.22 | 41.01 | 54.00 | 12.99 |

Average data (1 095.79 MHz)**Average data (10 601.19 MHz)****Average data (15 893.30 MHz)**

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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.

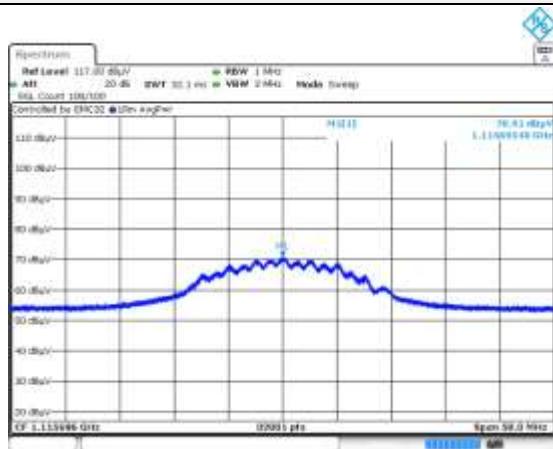
65, Sinwon-ro, Yeongtong-gu,
 Suwon-si, Gyeonggi-do, 16677, Korea
 TEL: 82-31-285-0894 FAX: 82-505-299-8311
www.kctl.co.kr

Report No.:
 KR20-SRF0030-D
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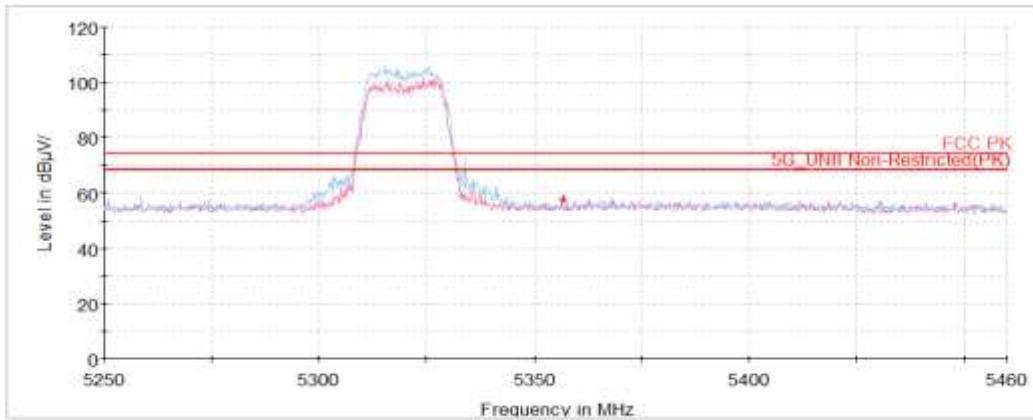
**Highest Channel (5 320 MHz)**

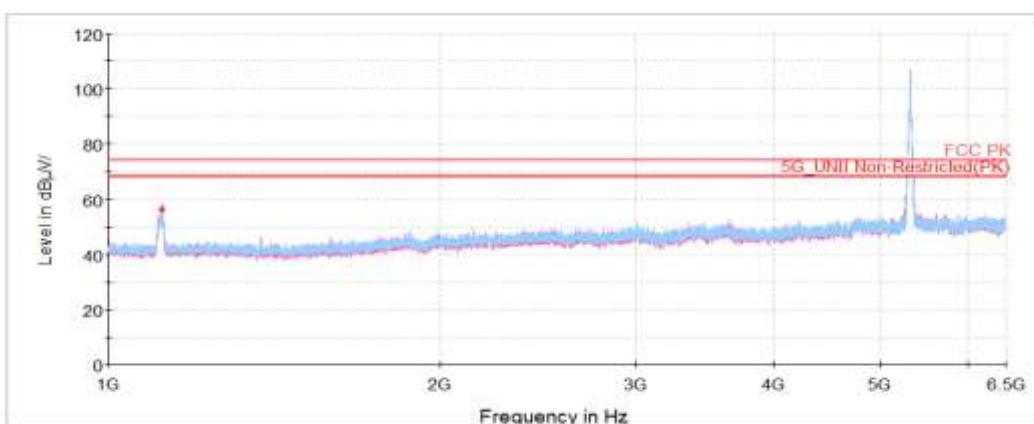
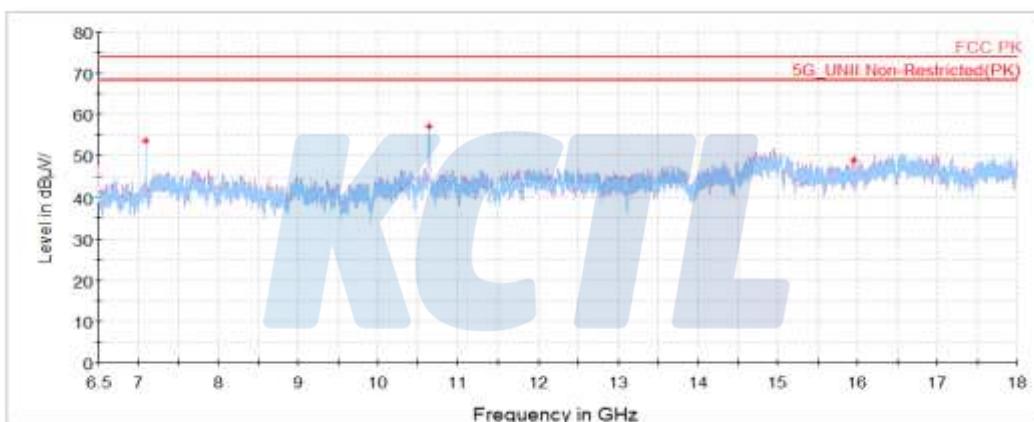
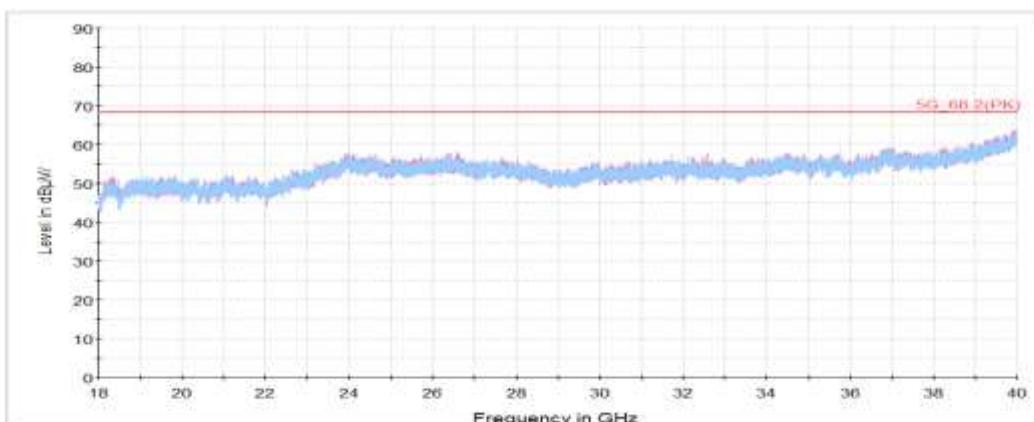
| Frequency (MHz) | Pol. | Reading (dB(µV)) | Antenna Factor (dB) | Amp. + Cable (dB) | DCCF (dB) | Result (dB(µV/m)) | Limit (dB(µV/m)) | Margin (dB) |
|-------------------------|------|---------------------|------------------------|----------------------|--------------|----------------------|---------------------|----------------|
| Peak data | | | | | | | | |
| 1 115.70 ¹⁾ | V | 79.07 | 27.85 | -50.49 | - | 56.43 | 74.00 | 17.57 |
| 5 389.83 ¹⁾ | H | 50.02 | 34.62 | -26.74 | - | 57.90 | 74.00 | 16.10 |
| 7 093.33 | H | 70.39 | 35.40 | -52.25 | - | 53.54 | 68.20 | 14.66 |
| 10 639.94 ¹⁾ | H | 69.50 | 37.48 | -49.96 | - | 57.02 | 74.00 | 16.98 |
| 15 957.67 ¹⁾ | V | 57.53 | 40.09 | -48.79 | - | 48.83 | 74.00 | 25.17 |
| Average Data | | | | | | | | |
| 1 115.70 ¹⁾ | V | 70.91 | 27.85 | -50.49 | 0.22 | 48.49 | 54.00 | 5.51 |
| 5 389.83 ¹⁾ | H | 41.43 | 34.62 | -26.74 | 0.22 | 49.53 | 54.00 | 4.47 |
| 10 639.94 ¹⁾ | H | 62.44 | 37.48 | -49.96 | 0.22 | 50.18 | 54.00 | 3.82 |



Average data (1 115.70 MHz)**Average data (5 389.83 MHz)****Average data (10 639.94 MHz)**

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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**

KCTL Inc.

65, Sinwon-ro, Yeongtong-gu,
Suwon-si, Gyeonggi-do, 16677, Korea
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www.kctl.co.kr

Report No.:

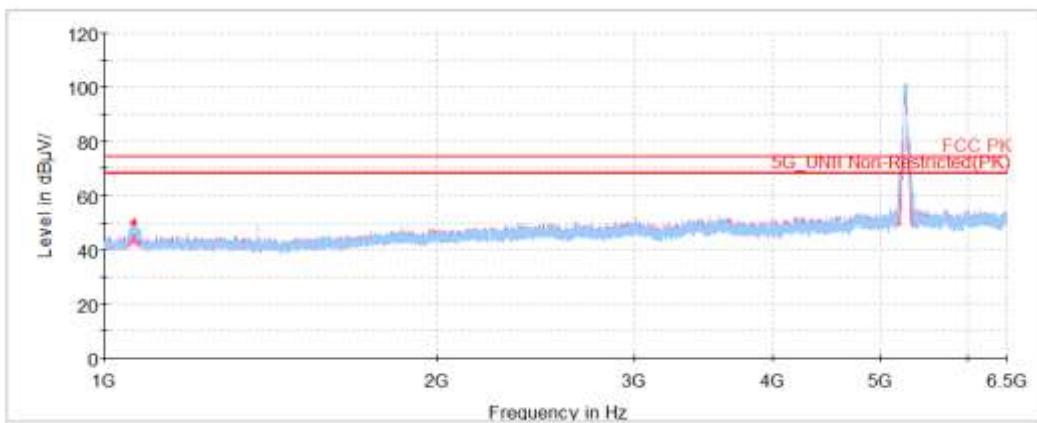
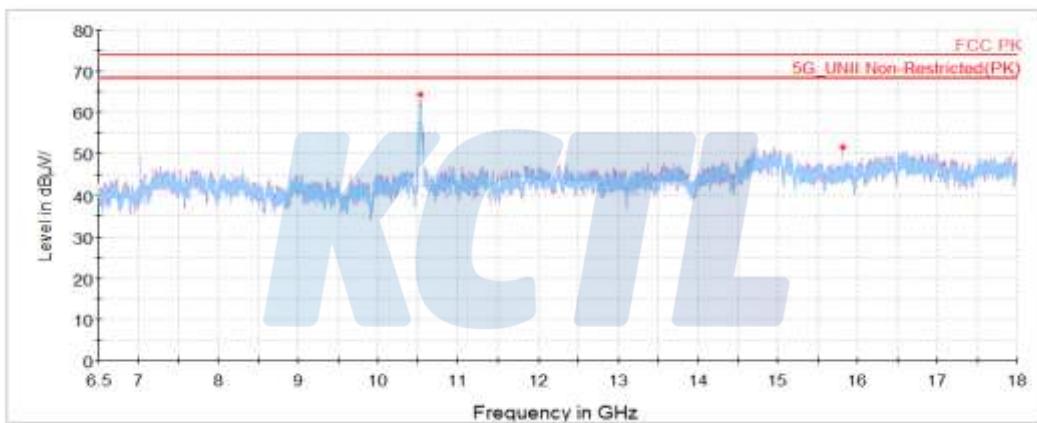
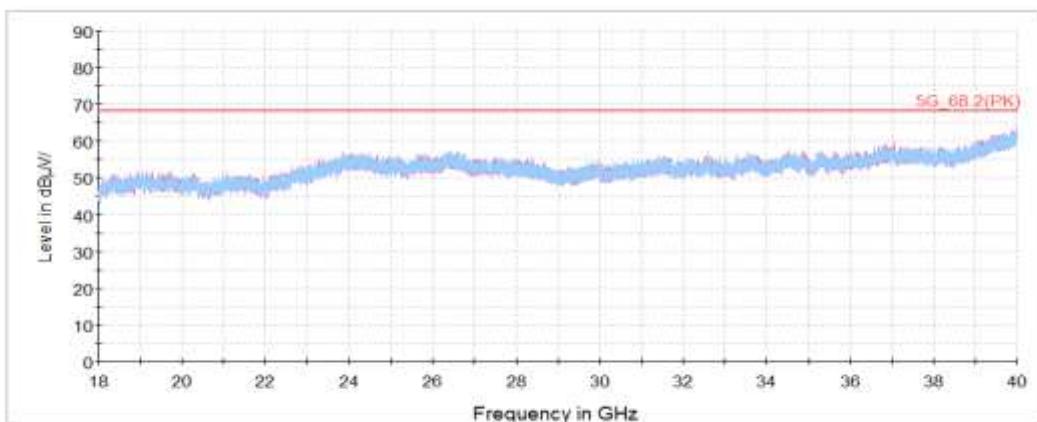
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**802.11n HT40 UNII 2A ANT 0****Lowest Channel (5 270 MHz)**

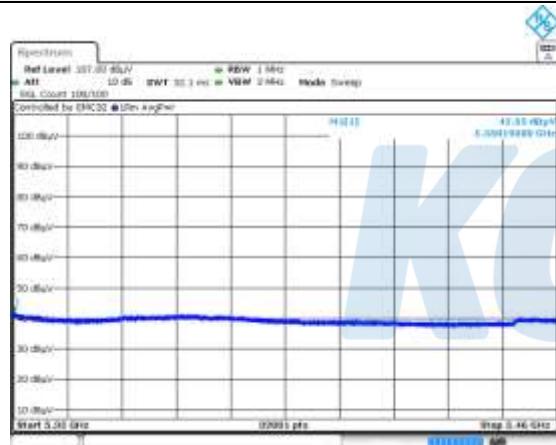
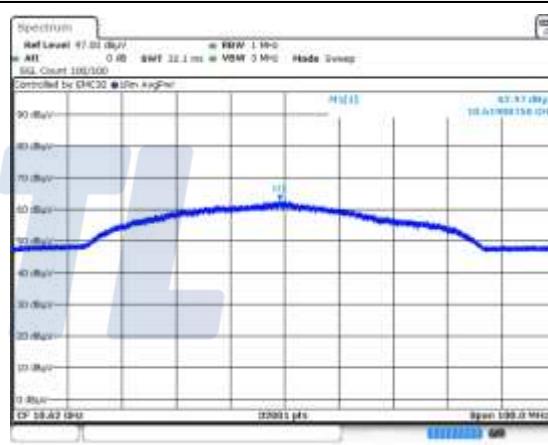
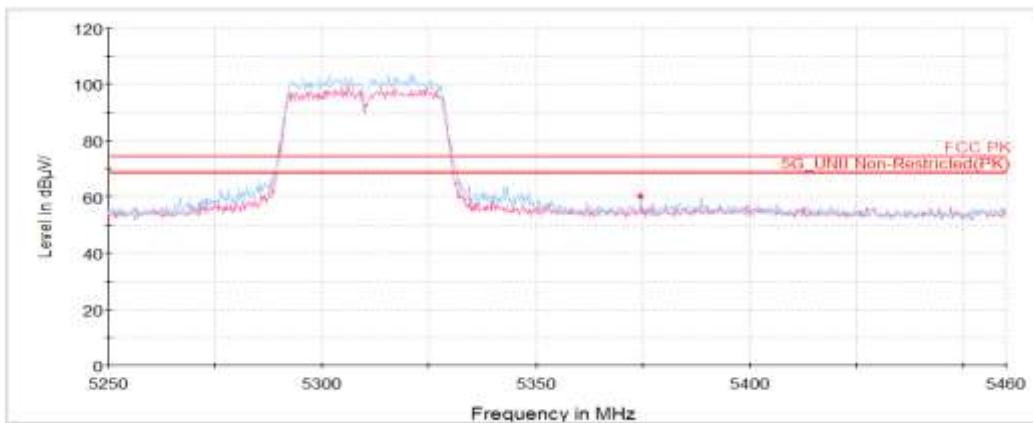
| Frequency (MHz) | Pol. | Reading (dB(µV)) | Antenna Factor (dB) | Amp. + Cable (dB) | DCCF | Result (dB(µV/m)) | Limit (dB(µV/m)) | Margin (dB) |
|--|------|---------------------|------------------------|----------------------|------|----------------------|---------------------|----------------|
| Peak data | | | | | | | | |
| 10 538.66 | V | 76.61 | 37.42 | -49.74 | - | 64.29 | 68.20 | 3.91 |
| 15 820.23 ¹⁾ | V | 60.23 | 40.06 | -48.72 | - | 51.57 | 74.00 | 22.43 |
| Average Data | | | | | | | | |
| No spurious emissions were detected within 20 dB of the limit. | | | | | | | | |

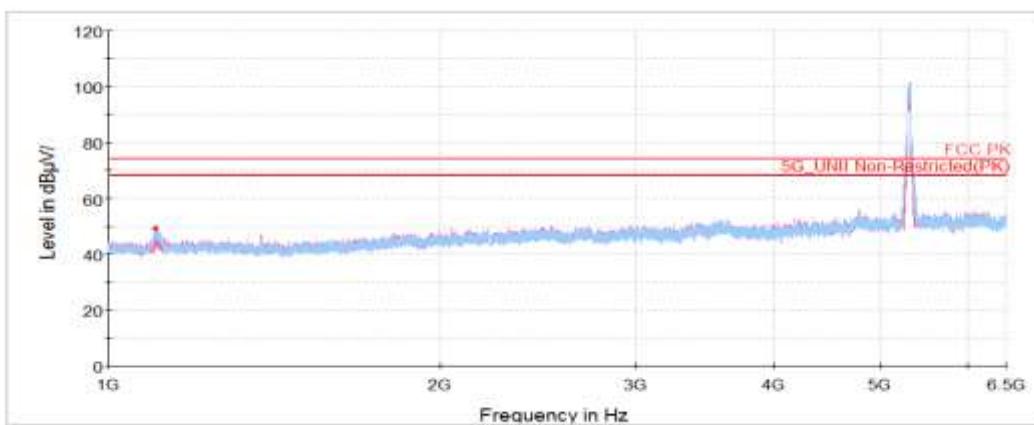
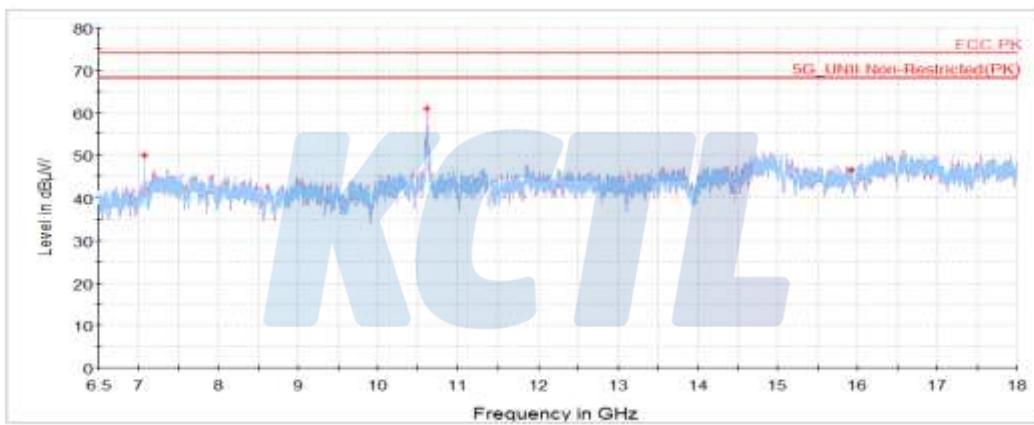
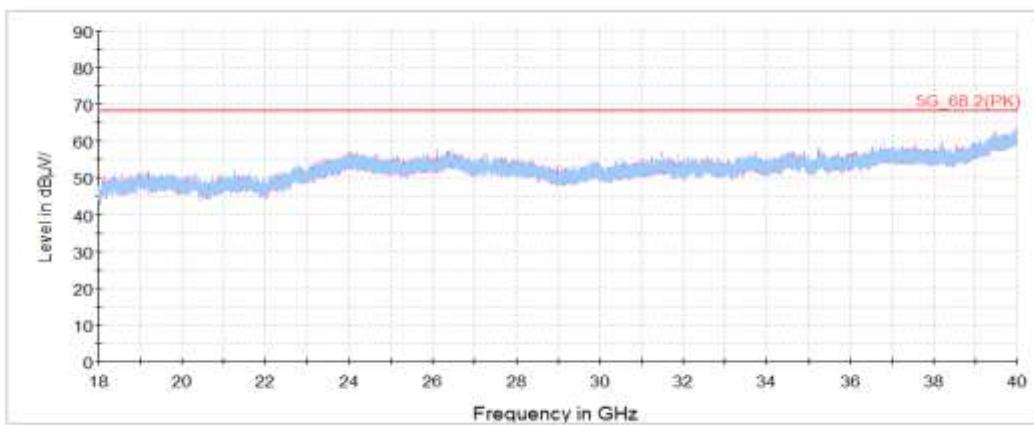


Horizontal/Vertical for 1 GHz ~ 6.5 GHz**Horizontal/Vertical for 6.5 GHz ~ 18 GHz****Horizontal/Vertical for 18 GHz ~ 40 GHz**

Highest Channel (5 310 MHz)

| Frequency | Pol. | Reading | Antenna Factor | Amp. + Cable | DCCF | Result | Limit | Margin |
|-------------------------|-------|----------------|----------------|--------------|------|------------------|------------------|--------|
| (MHz) | (V/H) | (dB(μ V)) | (dB) | (dB) | (dB) | (dB(μ V/m)) | (dB(μ V/m)) | (dB) |
| Peak data | | | | | | | | |
| 5 350.19 ¹⁾ | H | 52.36 | 34.56 | -26.84 | - | 60.08 | 74.00 | 13.92 |
| 7 080.03 | H | 66.83 | 35.40 | -52.31 | - | 49.92 | 68.20 | 18.28 |
| 10 619.09 ¹⁾ | V | 73.29 | 37.47 | -49.91 | - | 60.85 | 74.00 | 13.15 |
| 15 930.36 ¹⁾ | V | 55.07 | 40.09 | -48.78 | - | 46.38 | 74.00 | 27.62 |
| Average Data | | | | | | | | |
| 5 350.19 ¹⁾ | H | 42.05 | 34.56 | -26.84 | 0.44 | 50.21 | 54.00 | 3.79 |
| 10 619.09 ¹⁾ | V | 62.97 | 37.47 | -49.91 | 0.44 | 50.97 | 54.00 | 3.03 |

Average data (5 350.19 MHz)**Average data (10 619.09 MHz)****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**

KCTL Inc.

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Suwon-si, Gyeonggi-do, 16677, Korea
TEL: 82-31-285-0894 FAX: 82-505-299-8311
www.kctl.co.kr

Report No.:

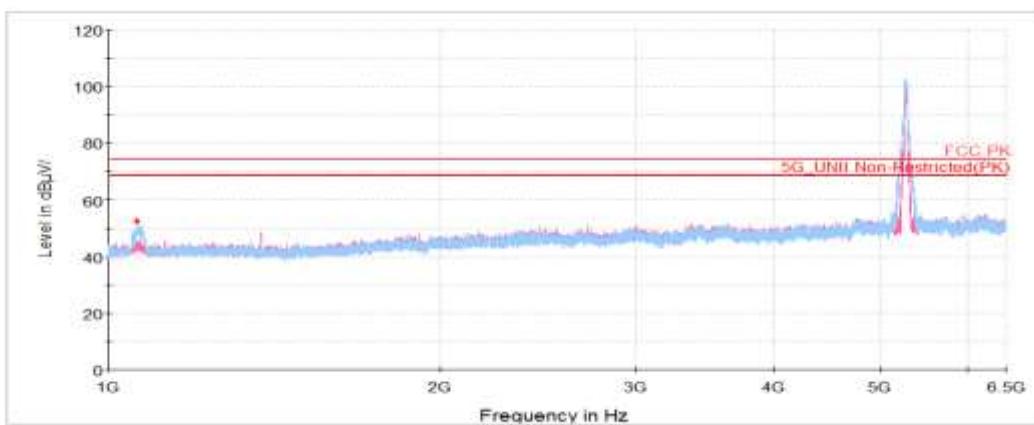
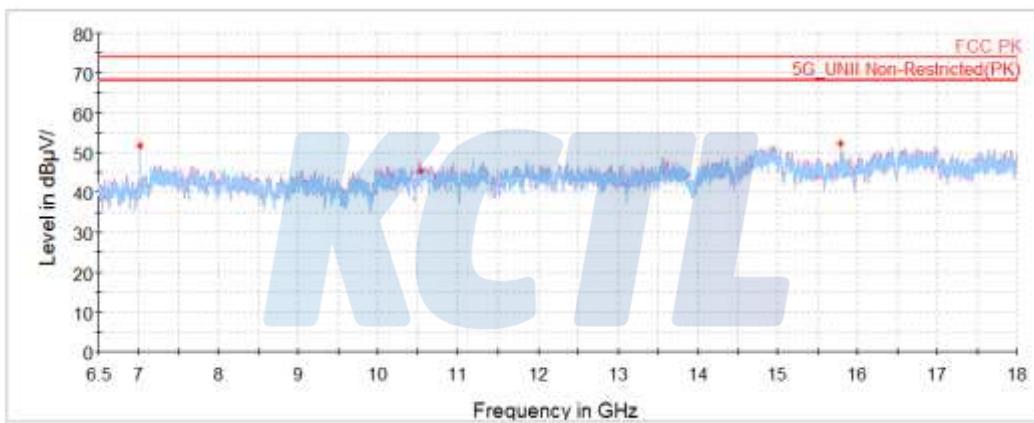
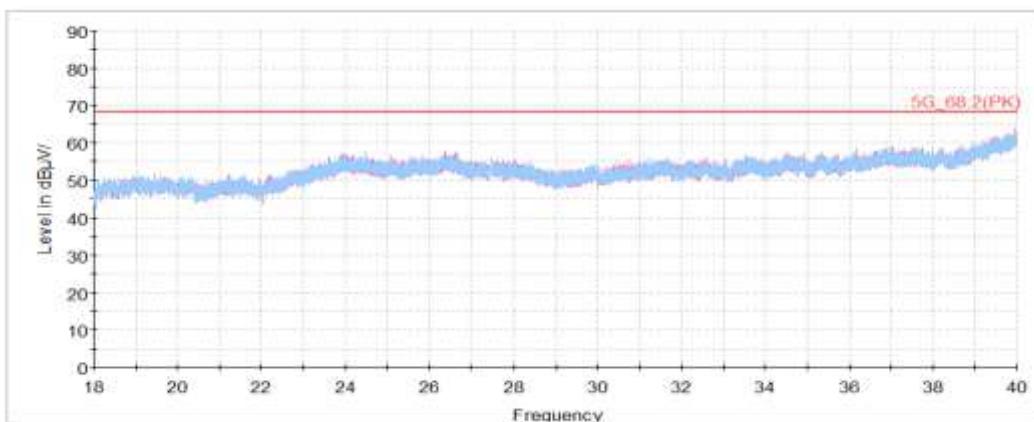
KR20-SRF0030-D

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**802.11n HT40 UNII 2A ANT 1****Lowest Channel (5 270 MHz)**

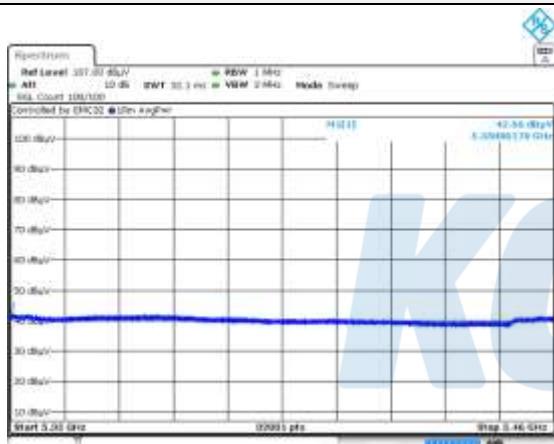
| Frequency (MHz) | Pol. | Reading (dB(µV)) | Antenna Factor | Amp. + Cable | DCCF | Result (dB(µV/m)) | Limit (dB(µV/m)) | Margin (dB) |
|--|------|---------------------|-------------------|--------------|------|----------------------|---------------------|----------------|
| Peak data | | | | | | | | |
| 1 064.48 ¹⁾ | H | 75.25 | 27.83 | -50.61 | - | 52.47 | 74.00 | 21.53 |
| 7 026.48 | H | 68.86 | 35.40 | -52.56 | - | 51.70 | 68.20 | 16.50 |
| 10 540.45 | H | 57.54 | 37.42 | -49.74 | - | 45.22 | 68.20 | 22.98 |
| 15 795.99 ¹⁾ | V | 60.78 | 40.06 | -48.71 | - | 52.13 | 74.00 | 21.87 |
| Average Data | | | | | | | | |
| No spurious emissions were detected within 20 dB of the limit. | | | | | | | | |



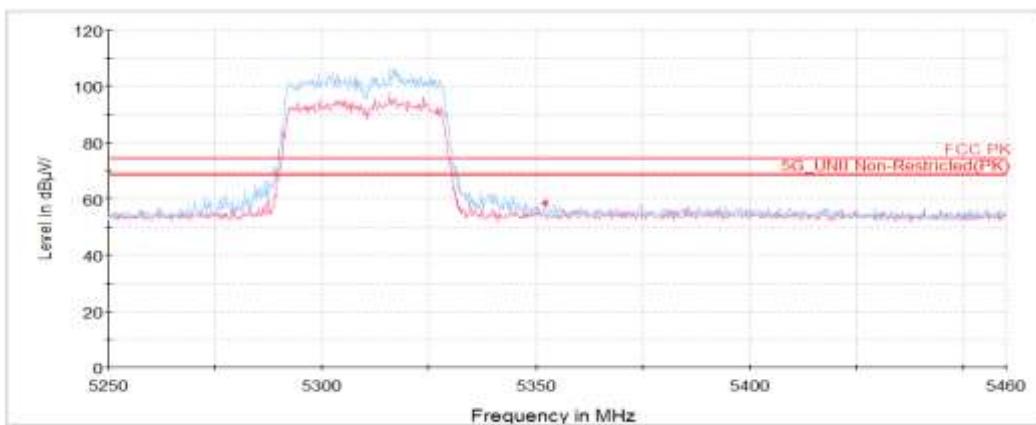
Horizontal/Vertical for 1 GHz ~ 6.5 GHz**Horizontal/Vertical for 6.5 GHz ~ 18 GHz****Horizontal/Vertical for 18 GHz ~ 40 GHz**

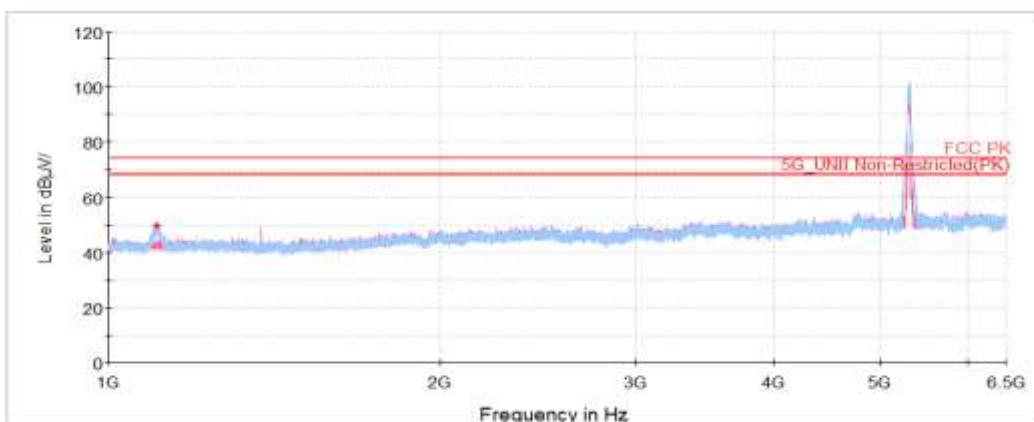
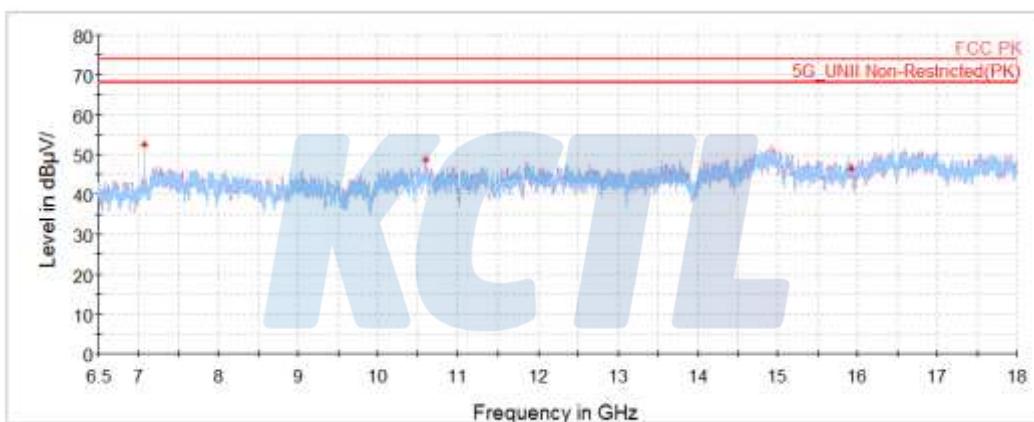
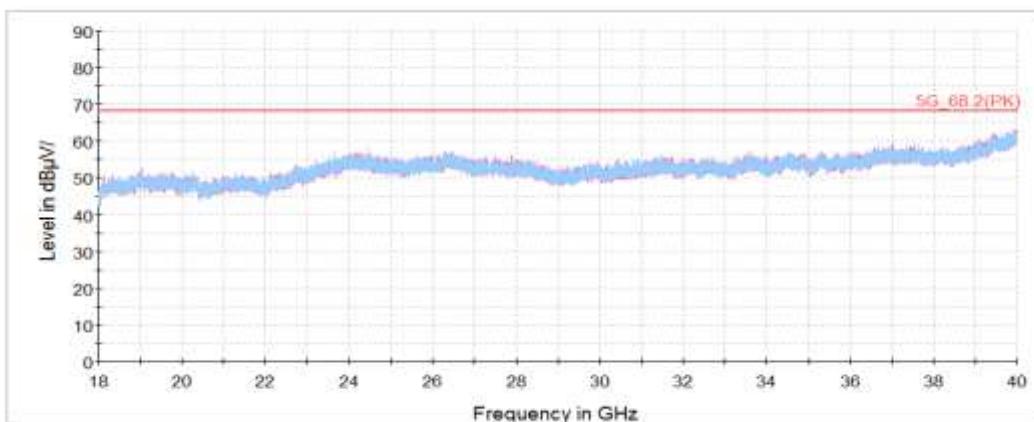
Highest Channel (5 310 MHz)

| Frequency | Pol. | Reading | Antenna Factor | Amp. + Cable | DCCF | Result | Limit | Margin |
|-------------------------|-------|----------------|----------------|--------------|------|------------------|------------------|--------|
| (MHz) | (V/H) | (dB(μ V)) | (dB) | (dB) | (dB) | (dB(μ V/m)) | (dB(μ V/m)) | (dB) |
| Peak data | | | | | | | | |
| 5 350.00 ¹⁾ | H | 50.78 | 34.56 | -26.84 | - | 58.50 | 74.00 | 15.50 |
| 7 080.03 | H | 69.31 | 35.40 | -52.31 | - | 52.40 | 68.20 | 15.80 |
| 10 601.19 ¹⁾ | H | 60.84 | 37.46 | -49.88 | - | 48.42 | 74.00 | 25.58 |
| 15 931.08 ¹⁾ | V | 55.04 | 40.09 | -48.78 | - | 46.35 | 74.00 | 27.65 |
| Average Data | | | | | | | | |
| 5 350.00 ¹⁾ | H | 42.66 | 34.56 | -26.84 | 0.44 | 50.82 | 54.00 | 3.18 |

Average data (5 350.00 MHz)

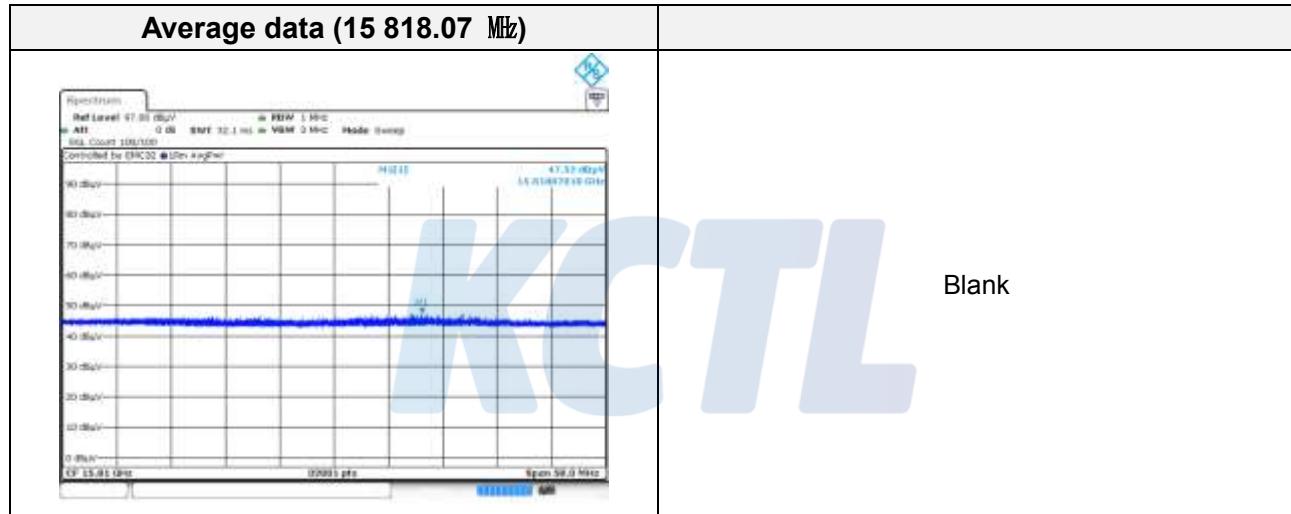
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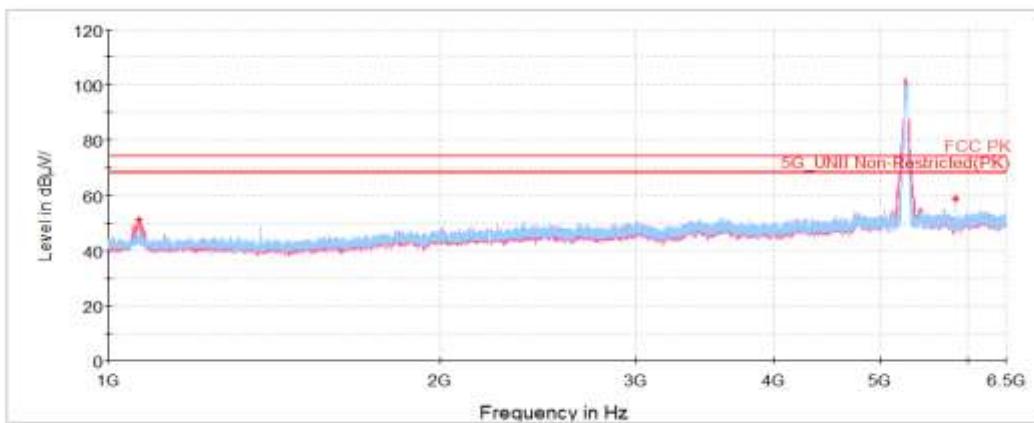
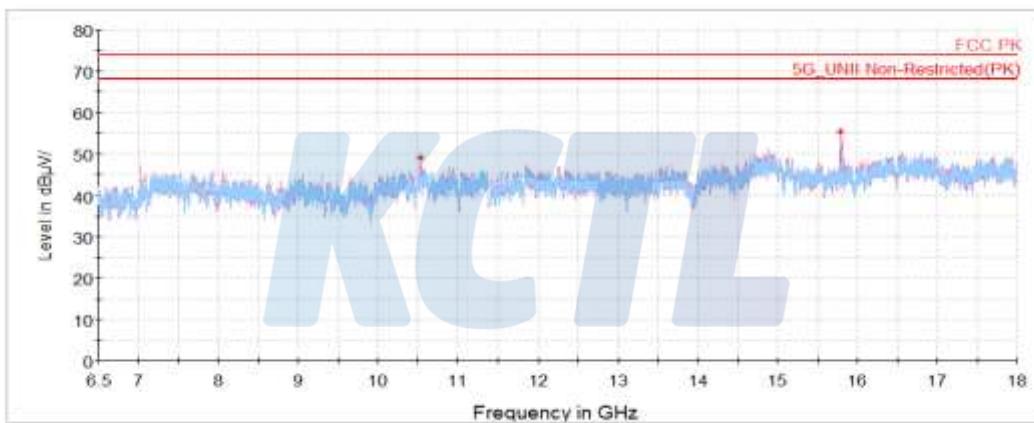
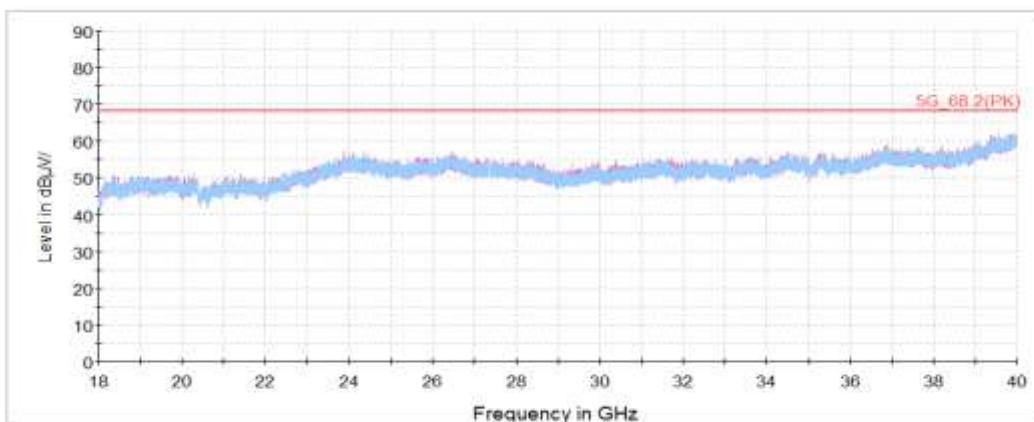
Horizontal/Vertical for Band-edge

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

802.11n HT40 UNII 2A ANT 2**Lowest Channel (5 270 MHz)**

| Frequency (MHz) | Pol. | Reading (dB(μ V)) | Antenna Factor (dB) | Amp. + Cable (dB) | DCCF (dB) | Result (dB(μ V/m)) | Limit (dB(μ V/m)) | Margin (dB) |
|-------------------------|------|---------------------------|------------------------|----------------------|--------------|----------------------------|---------------------------|----------------|
| Peak data | | | | | | | | |
| 5 855.64 | V | 68.27 | 35.23 | -44.90 | - | 58.60 | 68.20 | 9.60 |
| 10 537.94 | V | 61.35 | 37.42 | -49.74 | - | 49.03 | 68.20 | 19.17 |
| 15 818.07 ¹⁾ | V | 63.95 | 40.06 | -48.72 | - | 55.29 | 74.00 | 18.71 |
| Average Data | | | | | | | | |
| 15 818.07 ¹⁾ | V | 47.52 | 40.06 | -48.72 | 0.44 | 39.30 | 54.00 | 14.70 |

Average data (15 818.07 MHz)

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.

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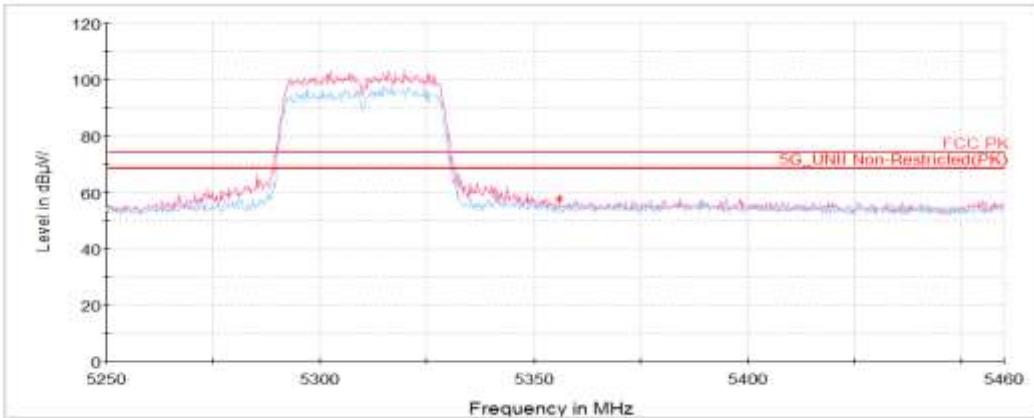
Page (602) of (1046)

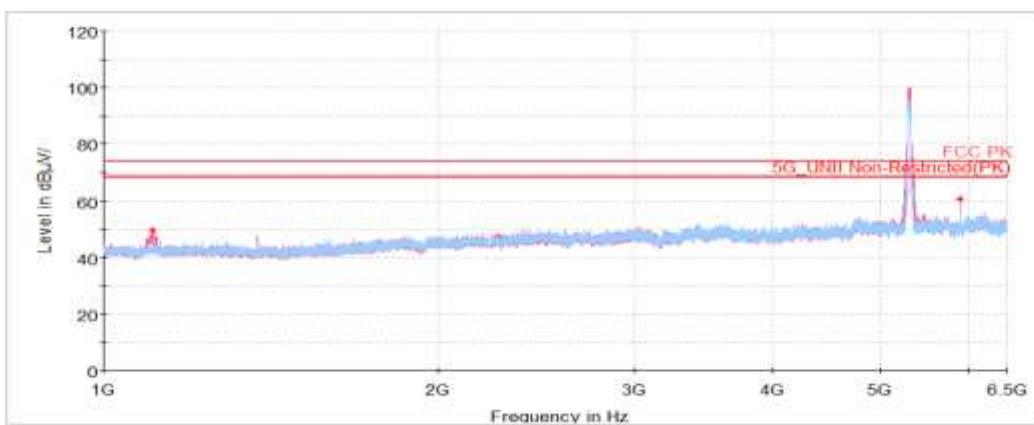
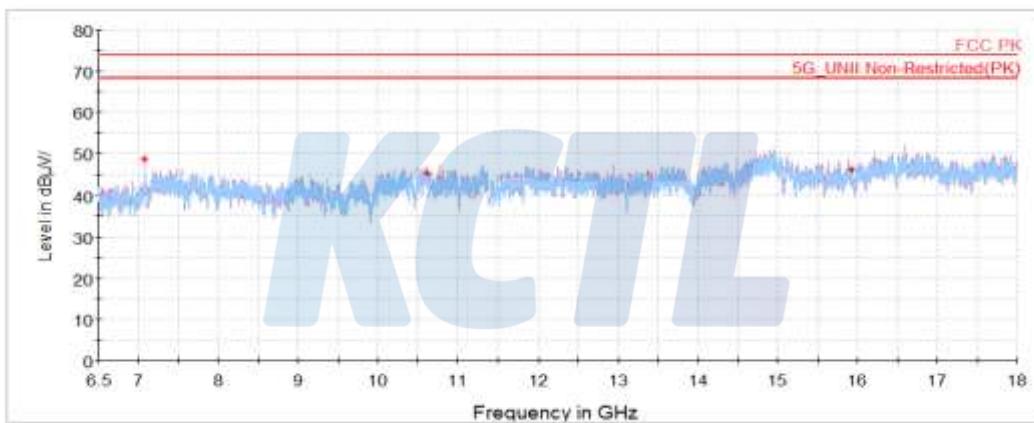
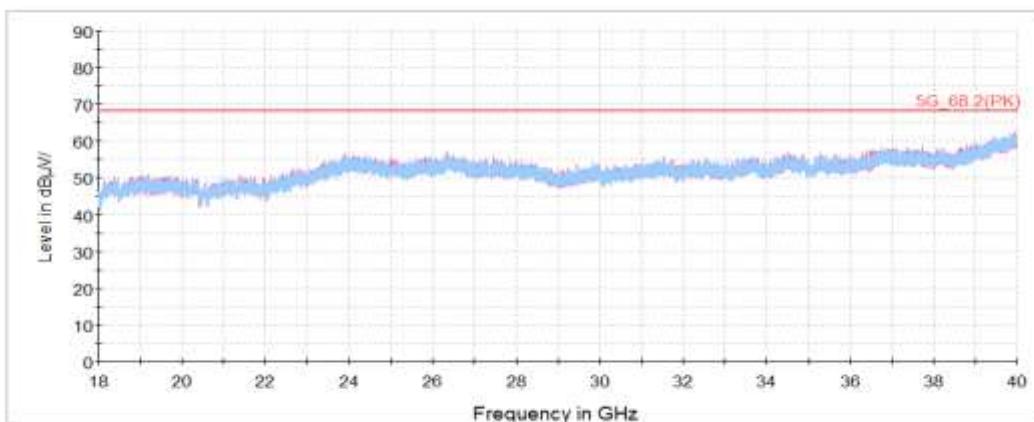
KCTL**Highest Channel (5 310 MHz)**

| Frequency | Pol. | Reading | Antenna Factor | Amp. + Cable | DCCF | Result | Limit | Margin |
|-------------------------|-------|----------------|----------------|--------------|------|------------------|------------------|--------|
| (MHz) | (V/H) | (dB(μ V)) | (dB) | (dB) | (dB) | (dB(μ V/m)) | (dB(μ V/m)) | (dB) |
| Peak data | | | | | | | | |
| 5 351.86 ¹⁾ | V | 49.85 | 34.56 | -26.84 | - | 57.57 | 74.00 | 16.43 |
| 5 899.98 | V | 69.85 | 35.28 | -44.49 | - | 60.64 | 68.20 | 7.56 |
| 7 080.03 | V | 65.55 | 35.40 | -52.31 | - | 48.64 | 68.20 | 19.56 |
| 10 620.23 ¹⁾ | V | 57.71 | 37.47 | -49.92 | - | 45.26 | 74.00 | 28.74 |
| 15 931.80 ¹⁾ | V | 54.76 | 40.09 | -48.78 | - | 46.07 | 74.00 | 27.93 |
| Average Data | | | | | | | | |
| 5 351.86 ¹⁾ | V | 42.42 | 34.56 | -26.84 | 0.44 | 50.58 | 54.00 | 3.42 |

Average data (5 351.86 MHz)

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**

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Suwon-si, Gyeonggi-do, 16677, Korea
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Report No.:

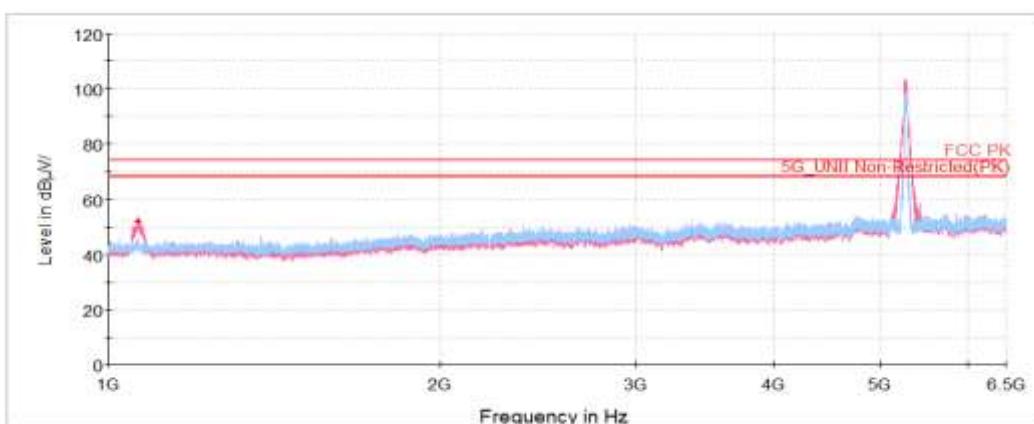
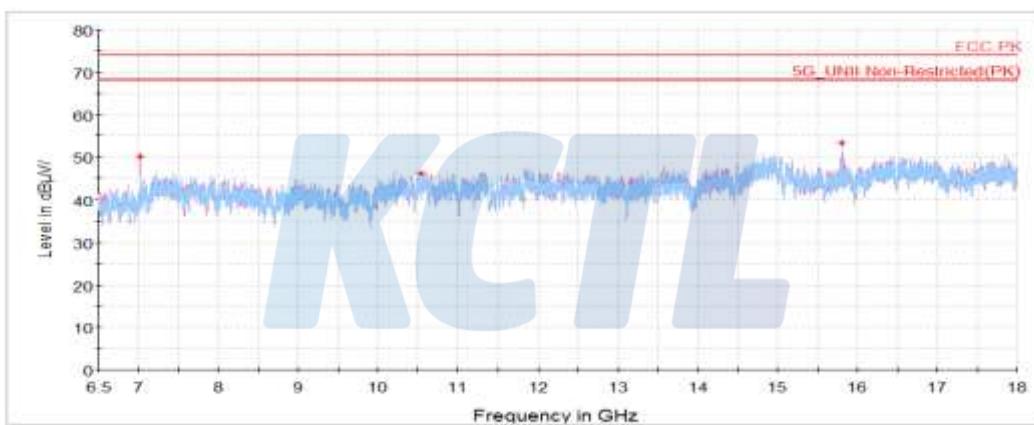
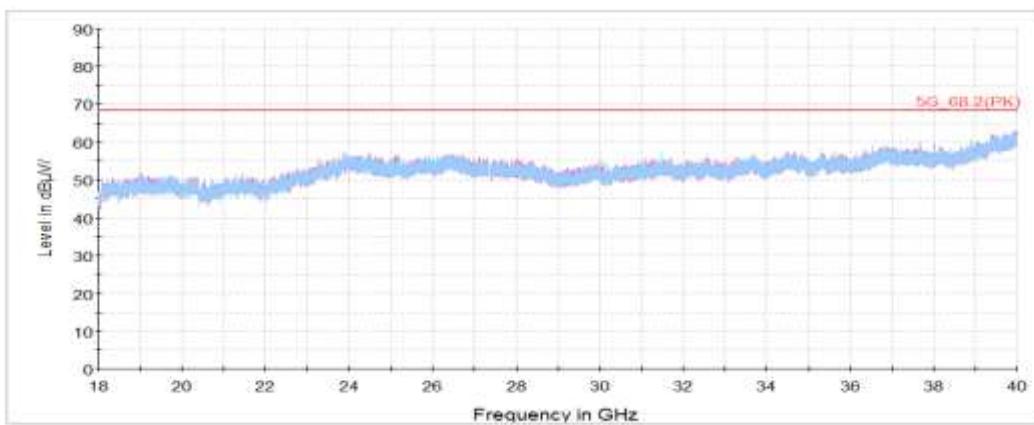
KR20-SRF0030-D

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**802.11n HT40 UNII 2A ANT 3****Lowest Channel (5 270 MHz)**

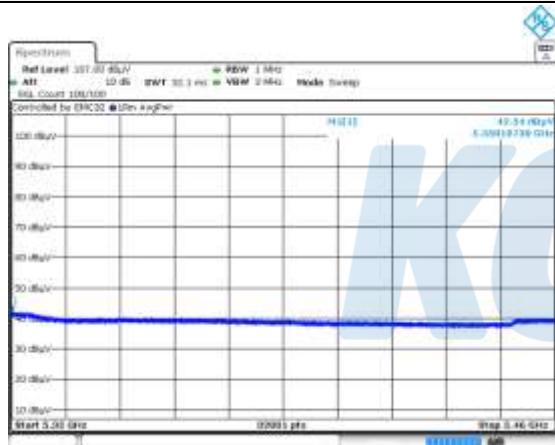
| Frequency (MHz) | Pol. | Reading (dB(µV)) | Antenna Factor (dB) | Amp. + Cable (dB) | DCCF (dB) | Result (dB(µV/m)) | Limit (dB(µV/m)) | Margin (dB) |
|--|------|---------------------|------------------------|----------------------|--------------|----------------------|---------------------|----------------|
| Peak data | | | | | | | | |
| 7 026.84 | V | 67.19 | 35.40 | -52.56 | - | 50.03 | 68.20 | 18.17 |
| 10 537.22 | V | 58.42 | 37.42 | -49.73 | - | 46.11 | 68.20 | 22.09 |
| 15 822.00 ¹⁾ | H | 61.88 | 40.06 | -48.72 | - | 53.22 | 74.00 | 20.78 |
| Average Data | | | | | | | | |
| No spurious emissions were detected within 20 dB of the limit. | | | | | | | | |



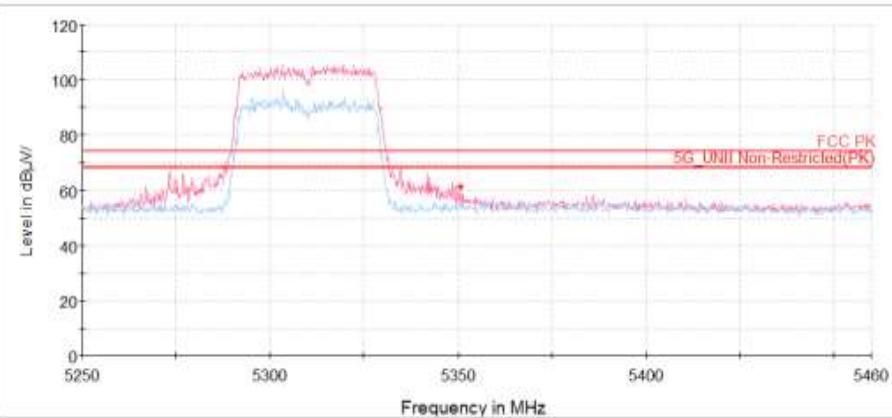
Horizontal/Vertical for 1 GHz ~ 6.5 GHz**Horizontal/Vertical for 6.5 GHz ~ 18 GHz****Horizontal/Vertical for 18 GHz ~ 40 GHz**

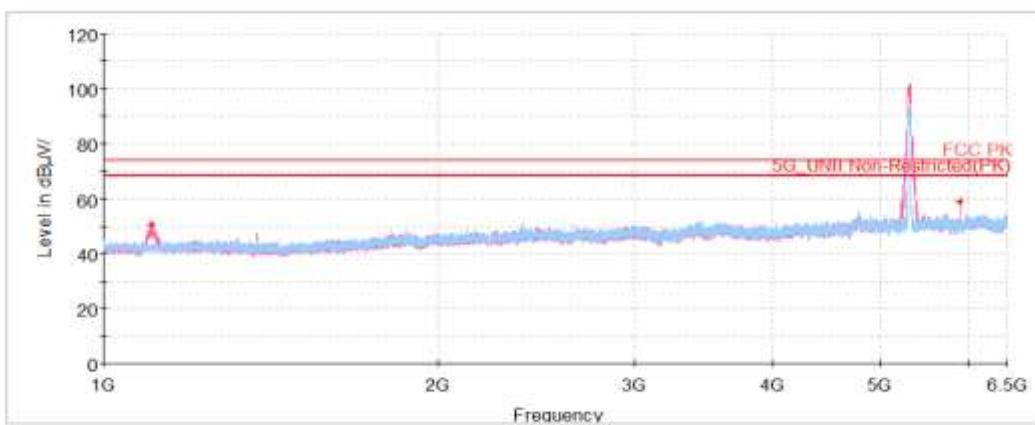
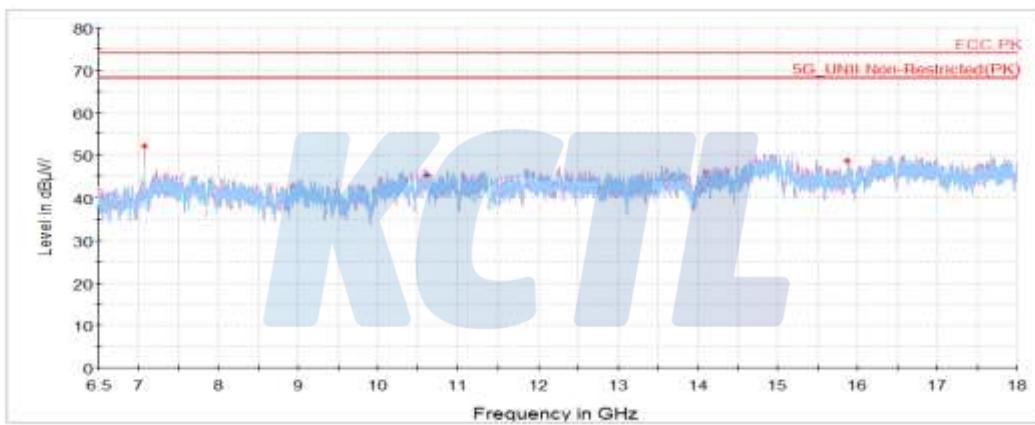
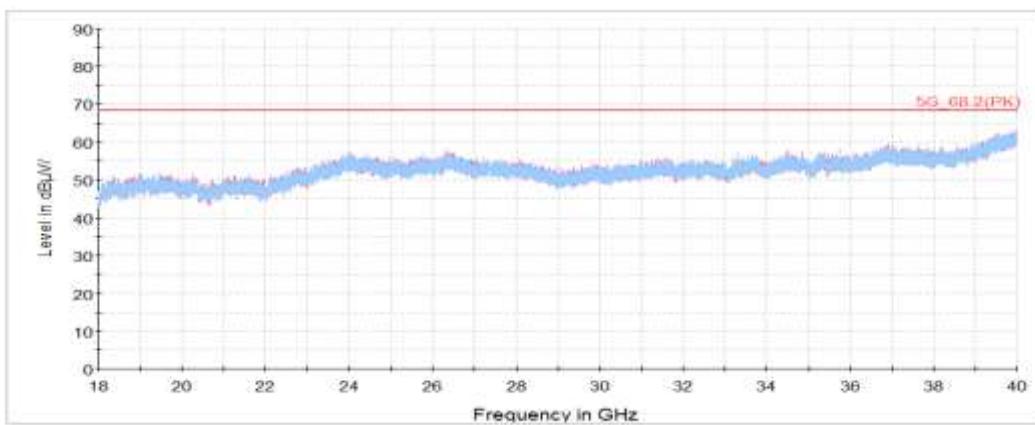
Highest Channel (5 310 MHz)

| Frequency | Pol. | Reading | Antenna Factor | Amp. + Cable | DCCF | Result | Limit | Margin |
|-------------------------|-------|----------------|----------------|--------------|------|------------------|------------------|--------|
| (MHz) | (V/H) | (dB(μ V)) | (dB) | (dB) | (dB) | (dB(μ V/m)) | (dB(μ V/m)) | (dB) |
| Peak data | | | | | | | | |
| 5 350.19 ¹⁾ | V | 53.47 | 34.56 | -26.84 | - | 61.19 | 74.00 | 12.81 |
| 5 899.98 | V | 67.81 | 35.28 | -44.49 | - | 58.60 | 68.20 | 9.60 |
| 7 079.67 | V | 69.02 | 35.40 | -52.31 | - | 52.11 | 68.20 | 16.09 |
| 10 619.16 ¹⁾ | H | 57.71 | 37.47 | -49.92 | - | 45.26 | 74.00 | 28.74 |
| 15 879.69 ¹⁾ | H | 57.26 | 40.08 | -48.75 | - | 48.59 | 74.00 | 25.41 |
| Average Data | | | | | | | | |
| 5 350.19 ¹⁾ | V | 42.54 | 34.56 | -26.84 | 0.44 | 50.70 | 54.00 | 3.30 |

Average data (5 350.19 MHz)

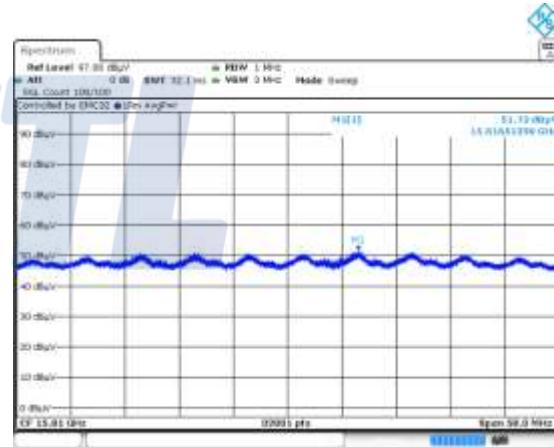
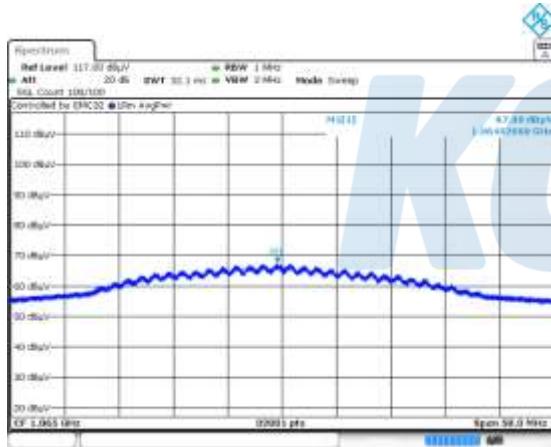
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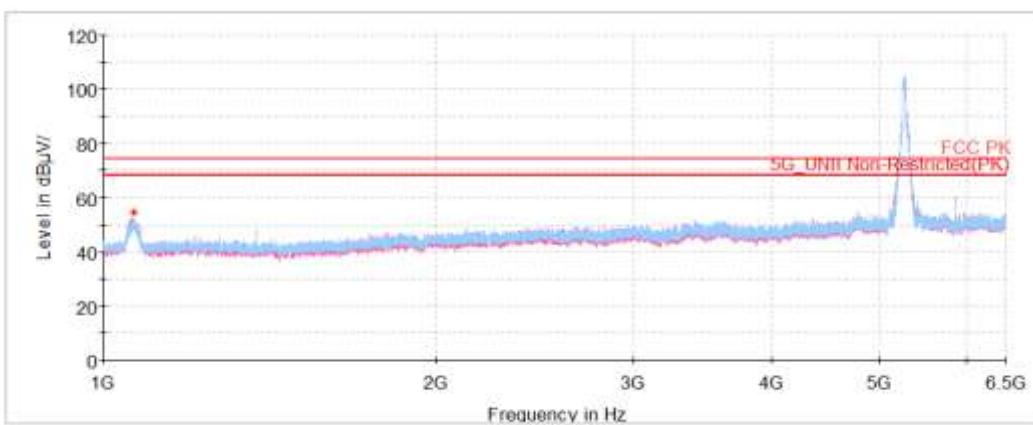
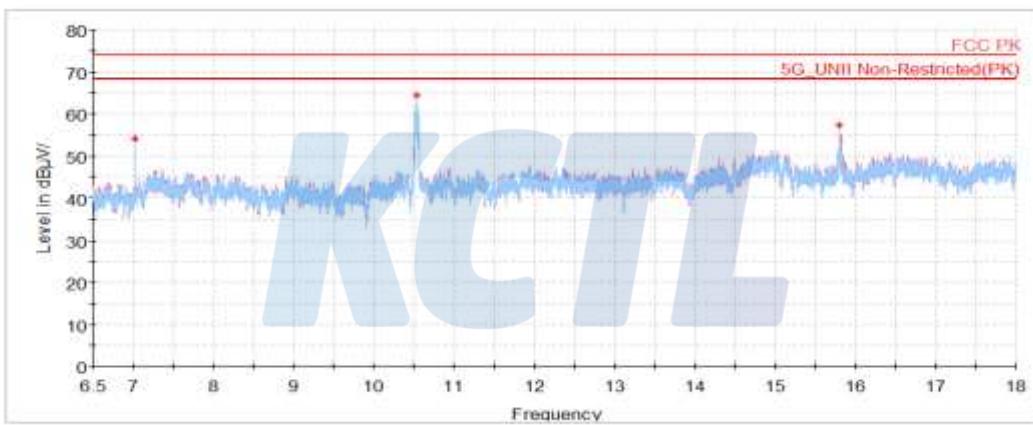
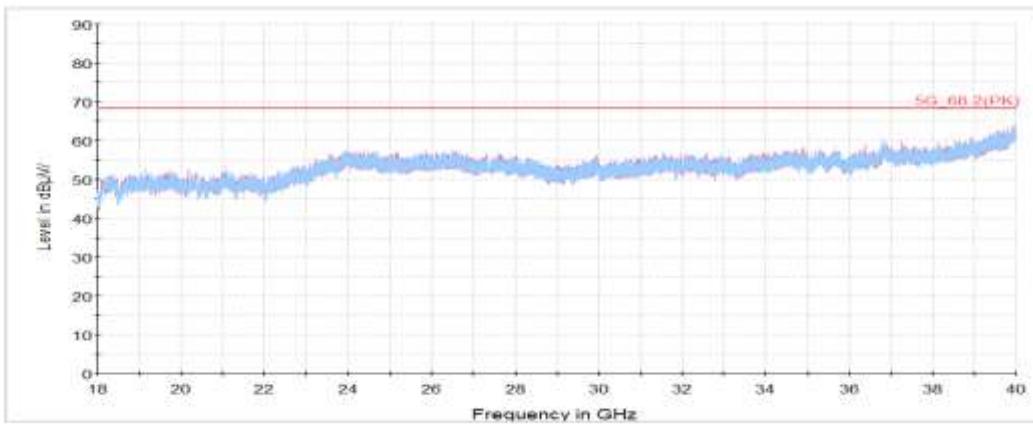
Horizontal/Vertical for Band-edge

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

802.11n HT40 UNII 2A 4TX MIMO**Lowest Channel (5 270 MHz)**

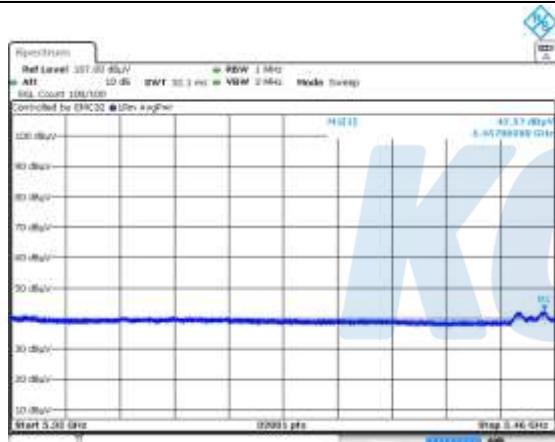
| Frequency (MHz) | Pol. | Reading (dB(μ V)) | Antenna Factor (dB) | Amp. + Cable (dB) | DCCF (dB) | Result (dB(μ V/m)) | Limit (dB(μ V/m)) | Margin (dB) |
|-------------------------|------|---------------------------|------------------------|----------------------|--------------|----------------------------|---------------------------|----------------|
| Peak data | | | | | | | | |
| 1 064.53 ¹⁾ | H | 77.31 | 27.83 | -50.61 | - | 54.53 | 74.00 | 19.47 |
| 7 026.84 | H | 71.15 | 35.40 | -52.56 | - | 53.99 | 68.20 | 14.21 |
| 10 537.94 | H | 74.38 | 37.42 | -49.74 | - | 62.06 | 68.20 | 6.14 |
| 15 816.51 ¹⁾ | V | 67.87 | 40.06 | -48.72 | - | 59.21 | 74.00 | 14.79 |
| Average Data | | | | | | | | |
| 1 064.53 ¹⁾ | H | 67.80 | 27.83 | -50.61 | 0.44 | 45.46 | 54.00 | 8.54 |
| 15 816.51 ¹⁾ | V | 51.73 | 40.06 | -48.72 | 0.44 | 43.51 | 54.00 | 10.49 |

Average data (1 064.53 MHz)**Average data (15 818.87 MHz)**

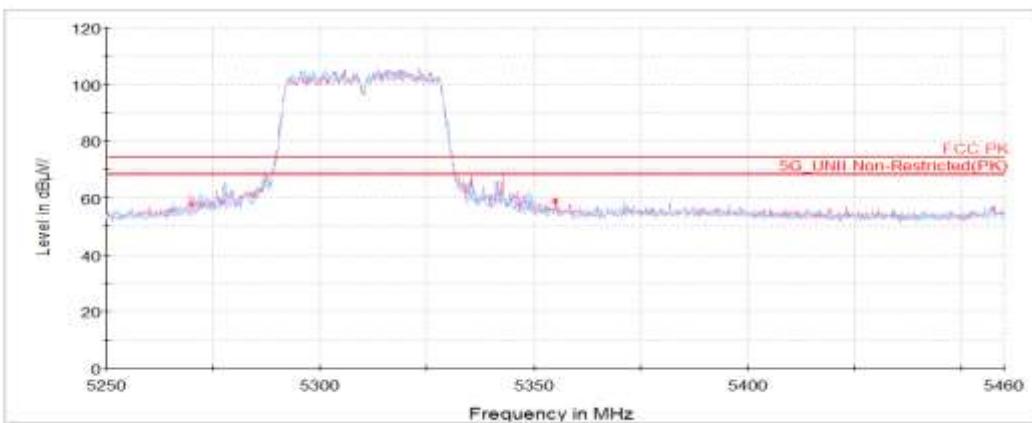
Horizontal/Vertical for 1 GHz ~ 6.5 GHz**Horizontal/Vertical for 6.5 GHz ~ 18 GHz****Horizontal/Vertical for 18 GHz ~ 40 GHz**

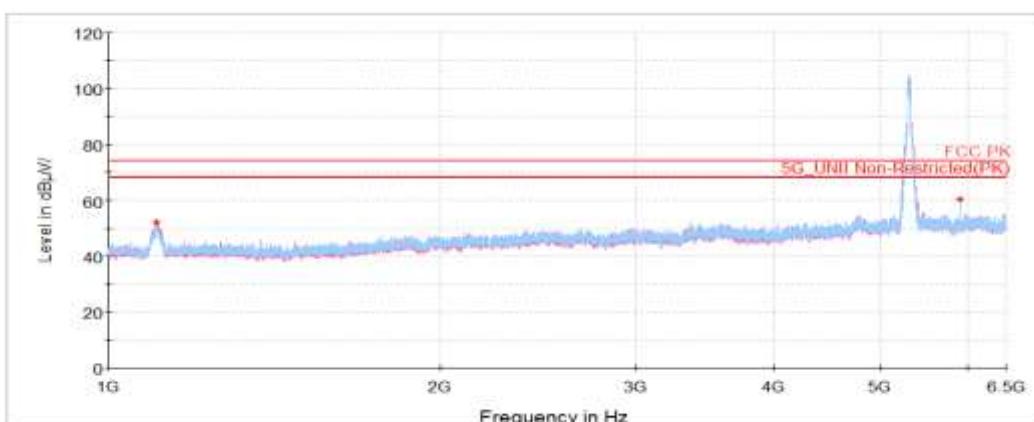
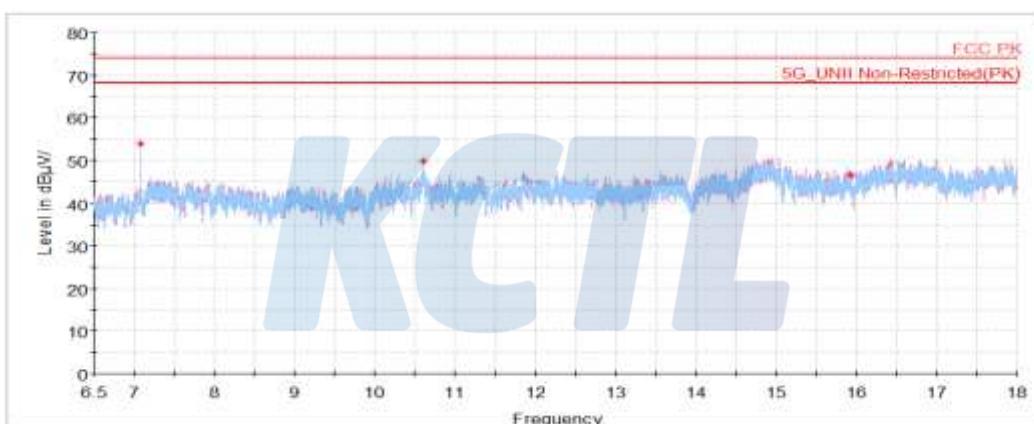
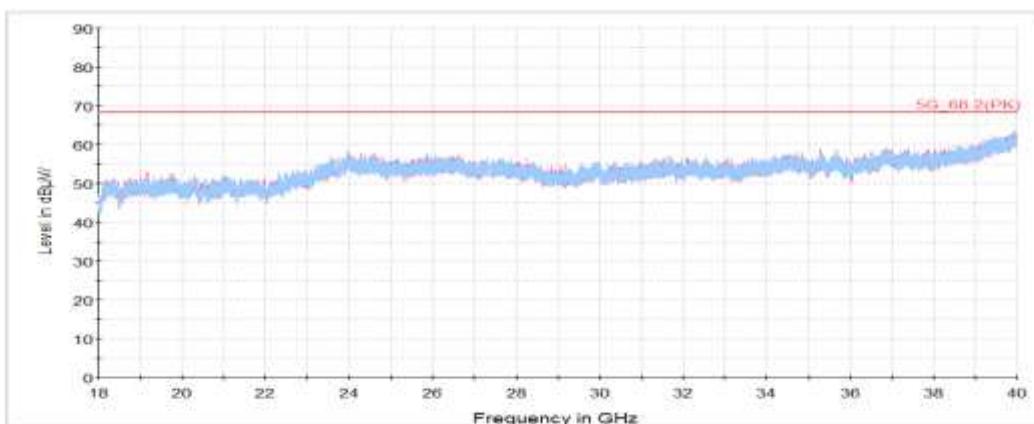
Highest Channel (5 310 MHz)

| Frequency | Pol. | Reading | Antenna Factor | Amp. + Cable | DCCF | Result | Limit | Margin |
|-------------------------|-------|----------------|----------------|--------------|------|------------------|------------------|--------|
| (MHz) | (V/H) | (dB(μ V)) | (dB) | (dB) | (dB) | (dB(μ V/m)) | (dB(μ V/m)) | (dB) |
| Peak data | | | | | | | | |
| 5 457.88 ¹⁾ | V | 51.31 | 34.73 | -27.33 | - | 58.71 | 74.00 | 15.29 |
| 5 900.16 | V | 69.24 | 35.28 | -44.49 | - | 60.03 | 68.20 | 8.17 |
| 7 079.67 | H | 70.85 | 35.40 | -52.31 | - | 53.94 | 68.20 | 14.26 |
| 10 618.80 ¹⁾ | V | 62.10 | 37.47 | -49.91 | - | 49.66 | 74.00 | 24.34 |
| 15 928.56 ¹⁾ | H | 55.33 | 40.09 | -48.78 | - | 46.64 | 74.00 | 27.36 |
| Average Data | | | | | | | | |
| 5 457.88 ¹⁾ | V | 42.57 | 34.73 | -27.33 | 0.44 | 50.41 | 54.00 | 3.59 |

Average data (5 457.88 MHz)

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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**

KCTL Inc.

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www.kctl.co.kr

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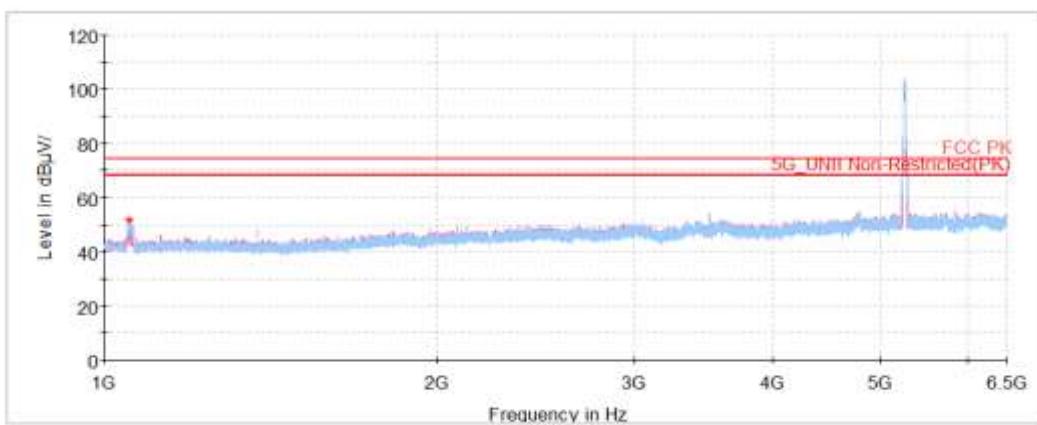
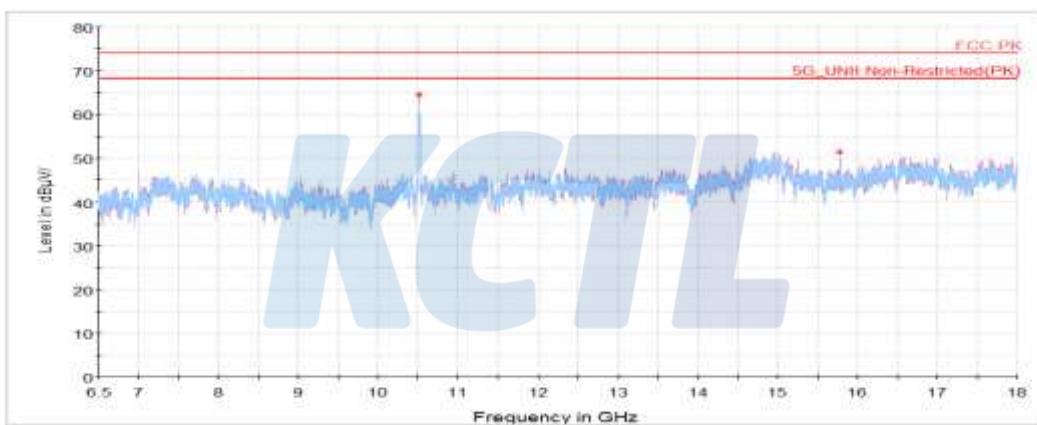
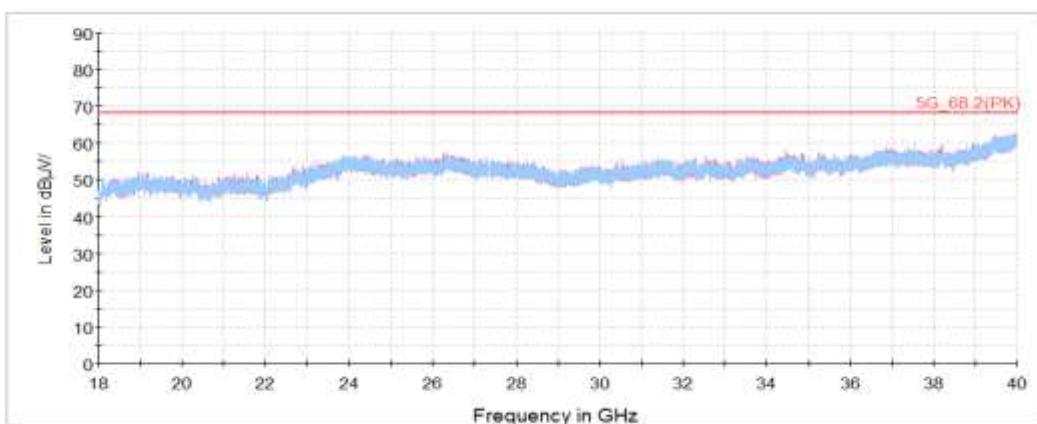
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**802.11ac VHT20 UNII 2A ANT 0****Lowest Channel (5 260 MHz)**

| Frequency (MHz) | Pol. | Reading (dB(μ V)) | Antenna Factor (dB) | Amp. + Cable (dB) | DCCF (dB) | Result (dB(μ V/m)) | Limit (dB(μ V/m)) | Margin (dB) |
|--|------|---------------------------|---------------------------|----------------------|--------------|----------------------------|---------------------------|----------------|
| Peak data | | | | | | | | |
| 10 519.97 | V | 76.79 | 37.41 | -49.70 | - | 64.50 | 68.20 | 3.70 |
| 15 783.14 ¹⁾ | H | 59.91 | 40.06 | -48.70 | - | 51.27 | 74.00 | 22.73 |
| Average Data | | | | | | | | |
| 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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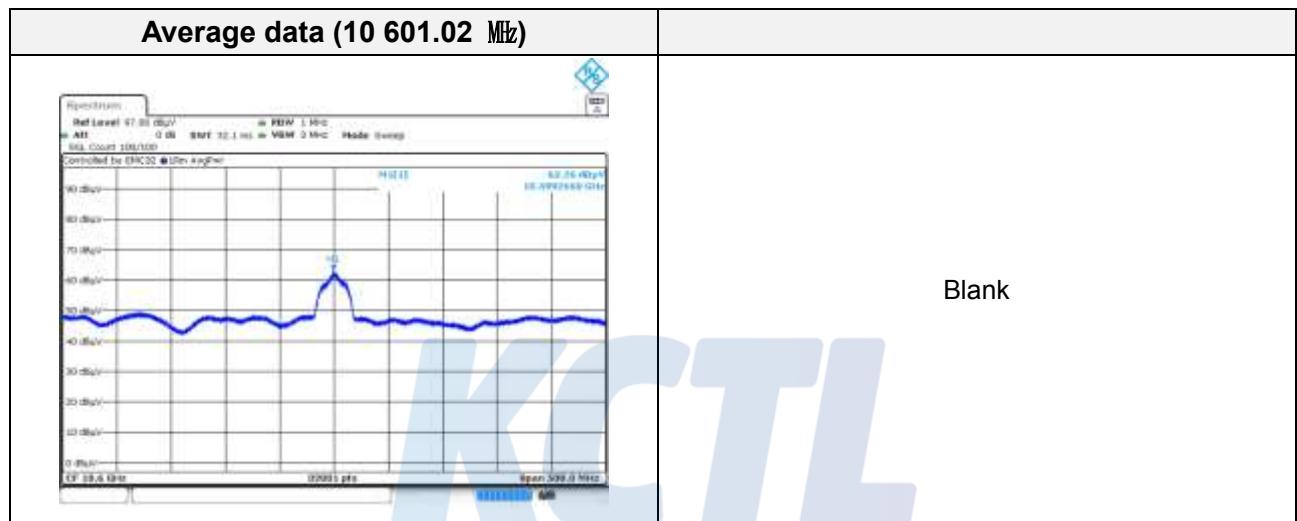
Report No.:

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KCTL**Middle Channel (5 300 MHz)**

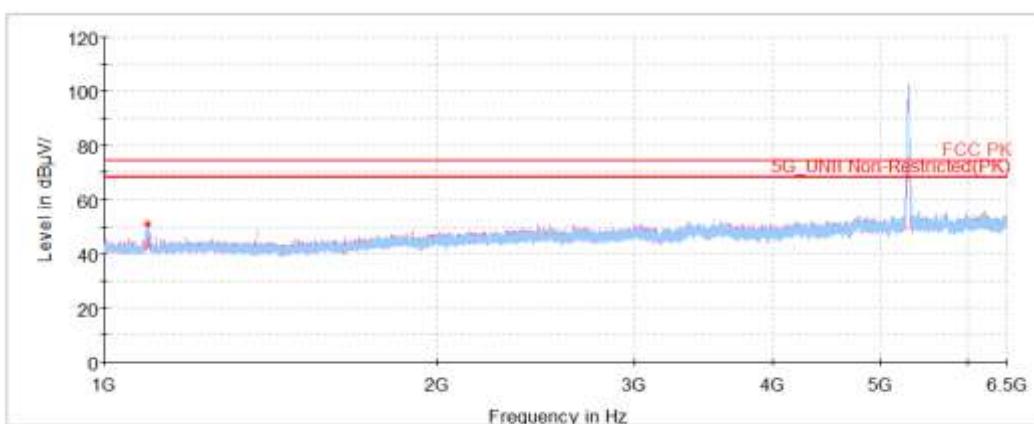
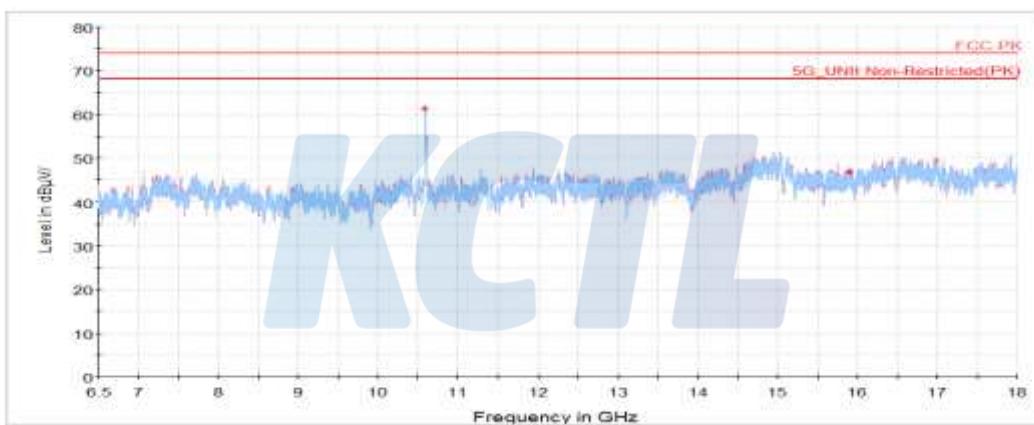
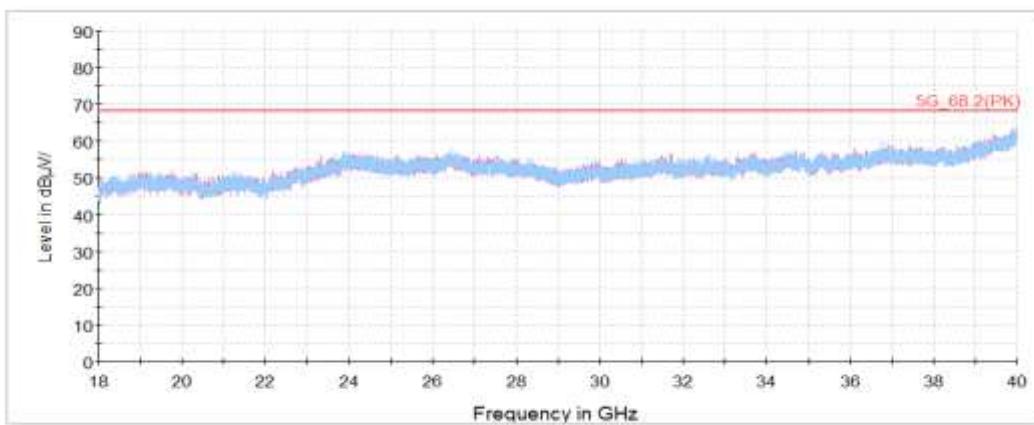
| Frequency (MHz) | Pol. | Reading (dB(μ V)) | Antenna Factor (dB) | Amp. + Cable (dB) | DCCF (dB) | Result (dB(μ V/m)) | Limit (dB(μ V/m)) | Margin (dB) |
|-------------------------|------|---------------------------|------------------------|----------------------|--------------|----------------------------|---------------------------|----------------|
| Peak data | | | | | | | | |
| 10 601.02 ¹⁾ | H | 73.78 | 37.46 | -49.88 | - | 61.36 | 74.00 | 12.64 |
| 15 901.97 ¹⁾ | H | 55.37 | 40.08 | -48.76 | - | 46.69 | 74.00 | 27.31 |
| Average Data | | | | | | | | |
| 10 601.02 ¹⁾ | H | 63.26 | 37.46 | -49.88 | - | 50.84 | 54.00 | 3.16 |

Average data (10 601.02 MHz)

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

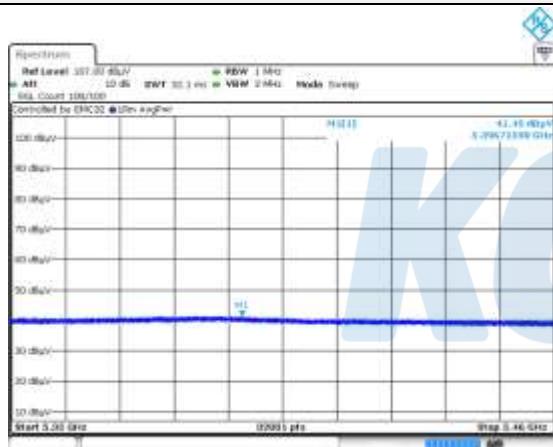
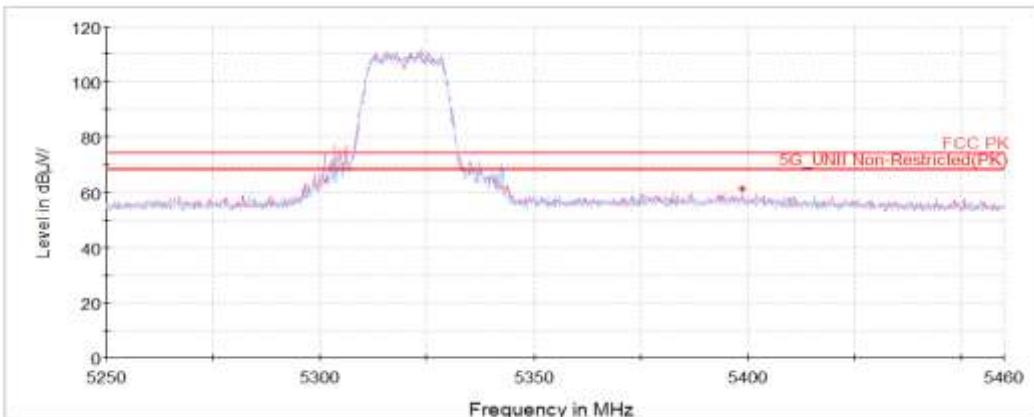
KCTL Inc.

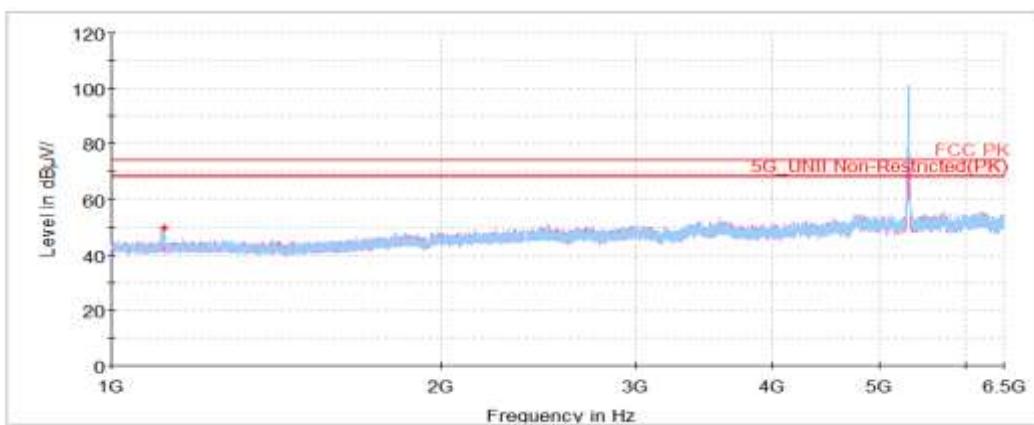
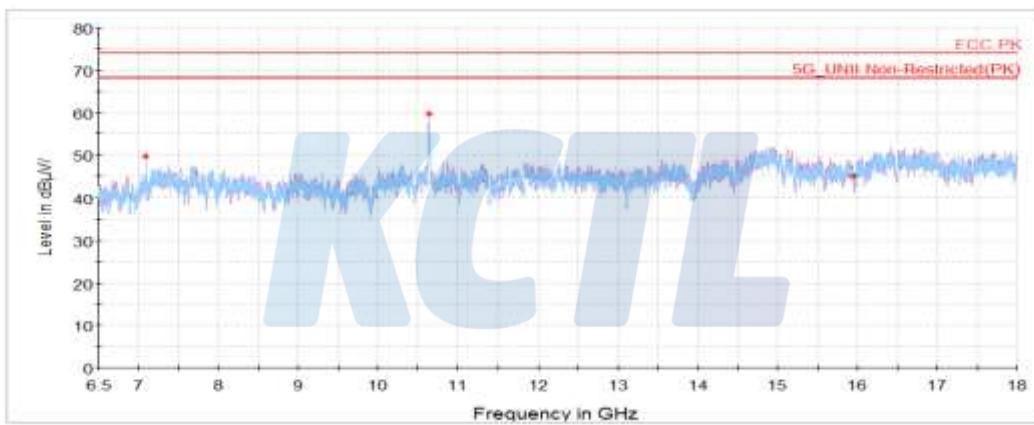
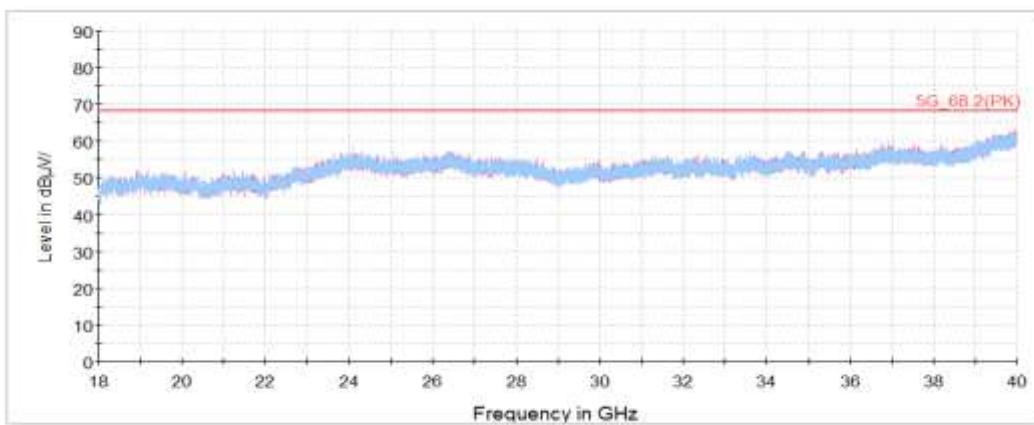
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KCTL**Highest Channel (5 320 MHz)**

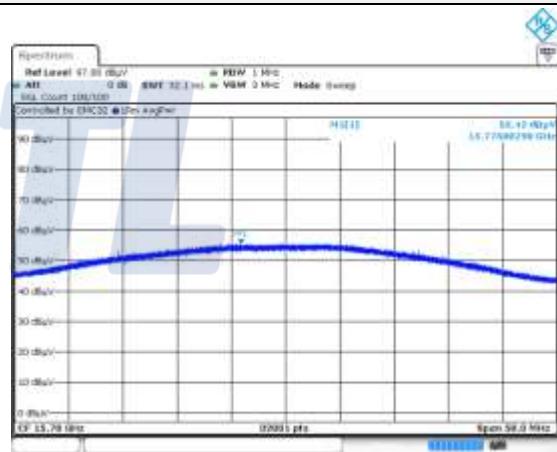
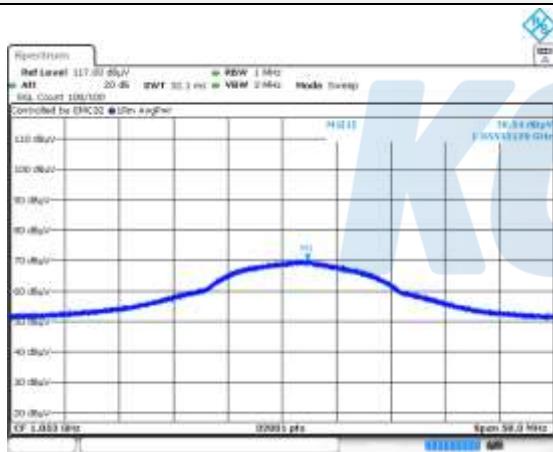
| Frequency | Pol. | Reading | Antenna Factor | Amp. + Cable | DCCF | Result | Limit | Margin |
|-------------------------|-------|----------------|----------------|--------------|------|------------------|------------------|--------|
| (MHz) | (V/H) | (dB(μ V)) | (dB) | (dB) | (dB) | (dB(μ V/m)) | (dB(μ V/m)) | (dB) |
| Peak data | | | | | | | | |
| 5 396.72 ¹⁾ | H | 49.76 | 34.63 | -26.72 | - | 57.67 | 74.00 | 16.33 |
| 7 093.33 | H | 66.56 | 35.40 | -52.25 | - | 49.71 | 68.20 | 18.49 |
| 10 639.58 ¹⁾ | H | 72.09 | 37.48 | -49.96 | - | 59.61 | 74.00 | 14.39 |
| 15 960.19 ¹⁾ | H | 53.68 | 40.09 | -48.79 | - | 44.98 | 74.00 | 29.02 |
| Average Data | | | | | | | | |
| 5 396.72 ¹⁾ | H | 41.45 | 34.63 | -26.72 | - | 49.36 | 54.00 | 4.64 |
| 10 639.58 ¹⁾ | H | 62.63 | 37.48 | -49.96 | - | 50.15 | 54.00 | 3.85 |

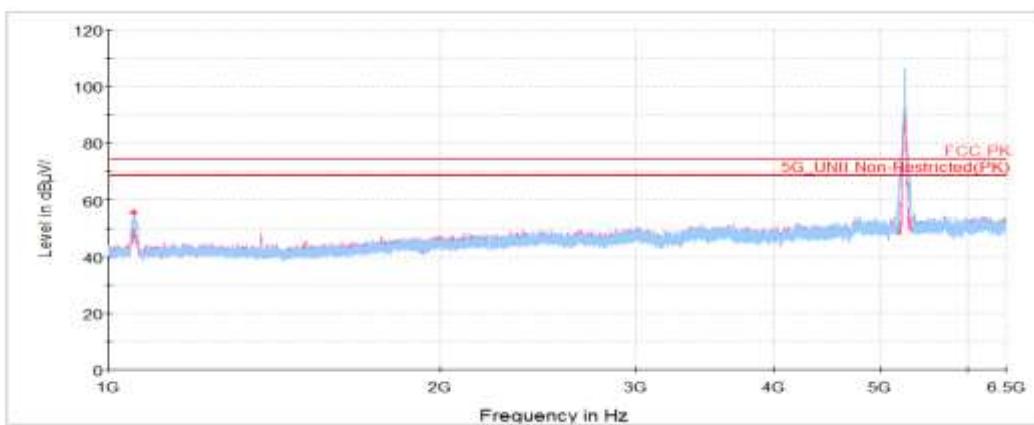
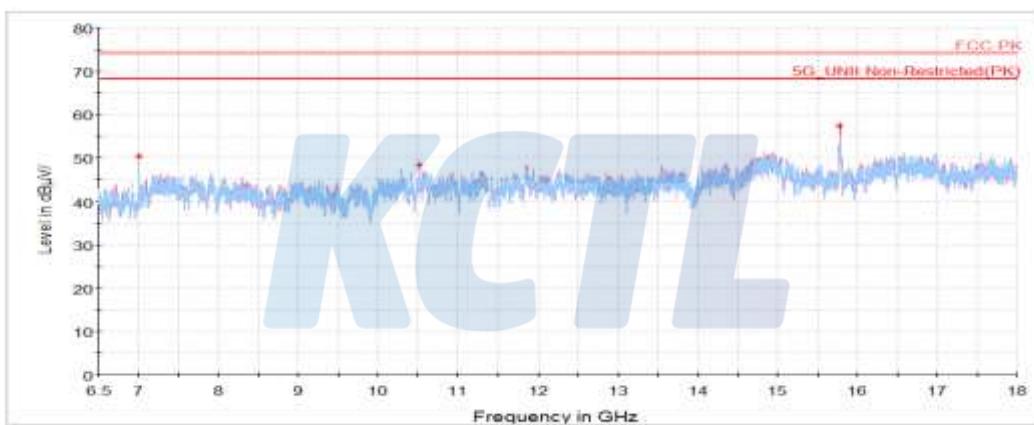
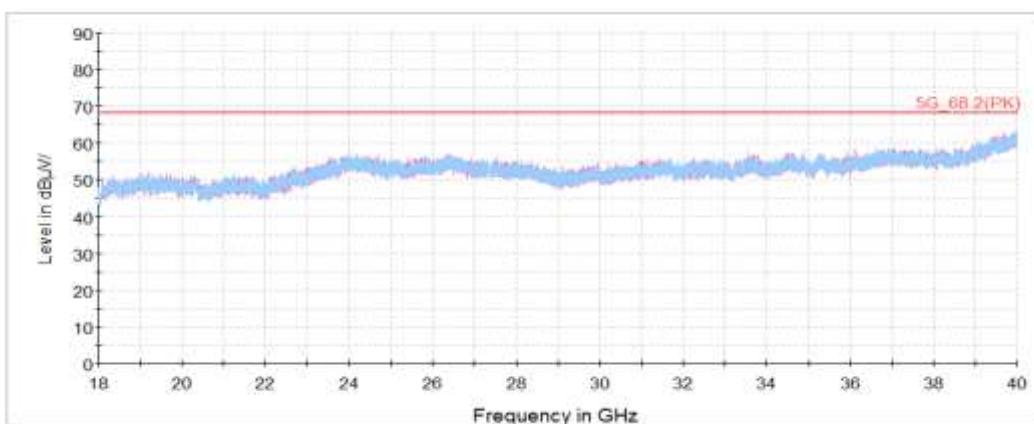
Average data (5 396.72 MHz)**Average data (10 639.58 MHz)****Horizontal/Vertical for Band-edge**

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

802.11ac VHT20 UNII 2A ANT 1**Lowest Channel (5 260 MHz)**

| Frequency (MHz) | Pol. | Reading (dB(μ V)) | Antenna Factor (dB) | Amp. + Cable (dB) | DCCF (dB) | Result (dB(μ V/m)) | Limit (dB(μ V/m)) | Margin (dB) |
|-------------------------|------|---------------------------|------------------------|----------------------|--------------|----------------------------|---------------------------|----------------|
| Peak data | | | | | | | | |
| 1 055.33 ¹⁾ | H | 78.32 | 27.82 | -50.61 | - | 55.53 | 74.00 | 18.47 |
| 7 013.55 | H | 67.58 | 35.40 | -52.62 | - | 50.36 | 68.20 | 17.84 |
| 10 519.97 | V | 60.56 | 37.41 | -49.70 | - | 48.27 | 68.20 | 19.93 |
| 15 775.88 ¹⁾ | V | 65.97 | 40.06 | -48.69 | - | 57.34 | 74.00 | 16.66 |
| Average Data | | | | | | | | |
| 1 055.33 ¹⁾ | H | 70.54 | 27.82 | -50.61 | - | 47.75 | 54.00 | 6.25 |
| 15 775.88 ¹⁾ | V | 55.42 | 40.06 | -48.69 | - | 46.79 | 54.00 | 7.21 |

Average data (1 055.33 MHz)**Average data (15 775.88 MHz)**

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.

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www.kctl.co.kr

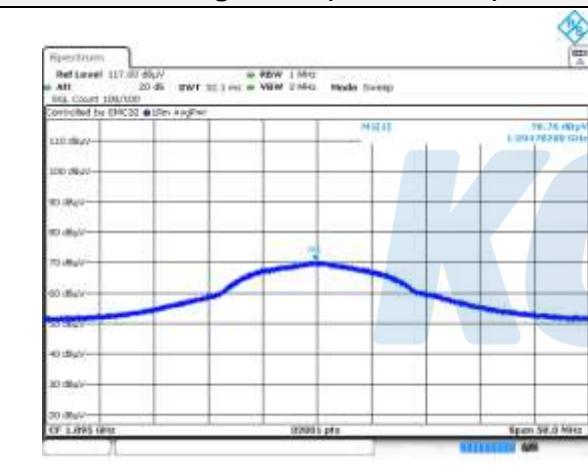
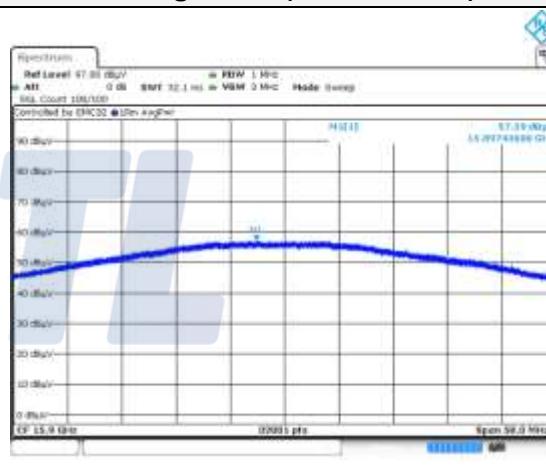
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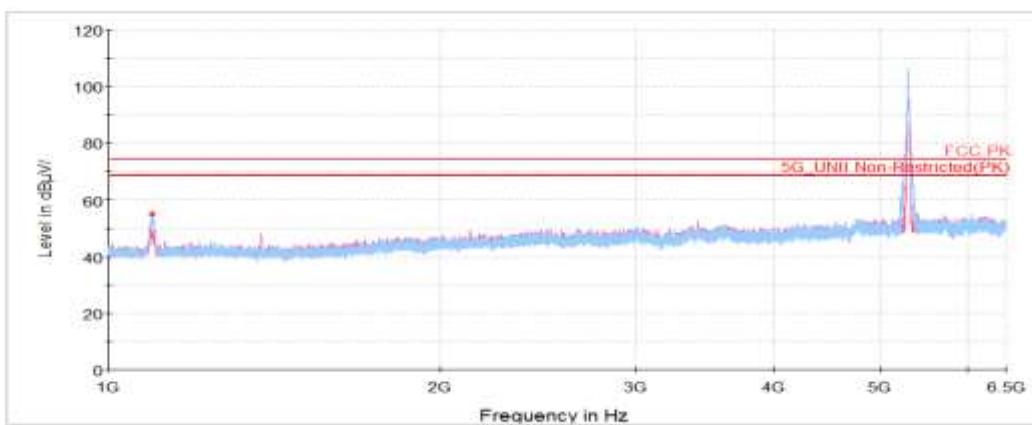
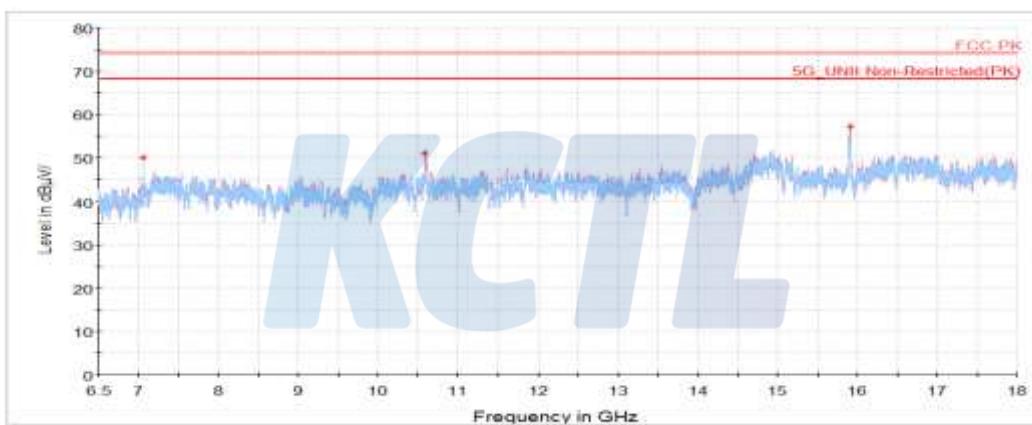
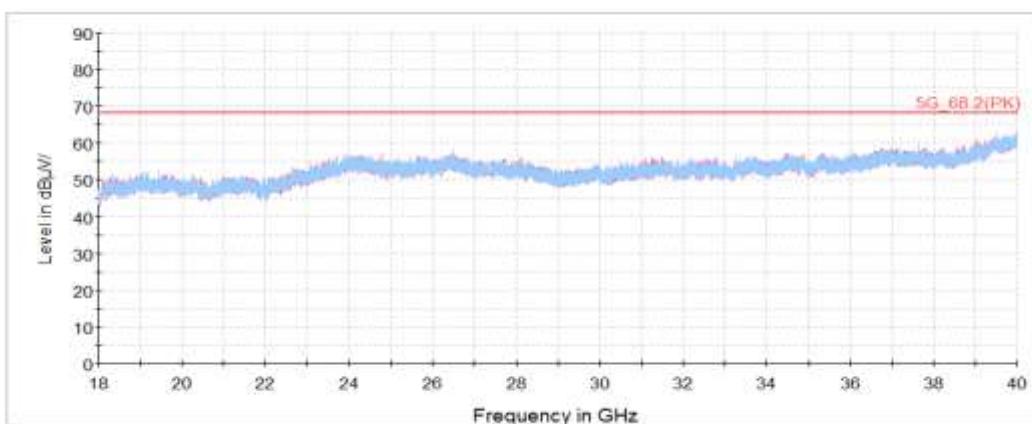
KR20-SRF0030-D

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KCTL**Middle Channel (5 300 MHz)**

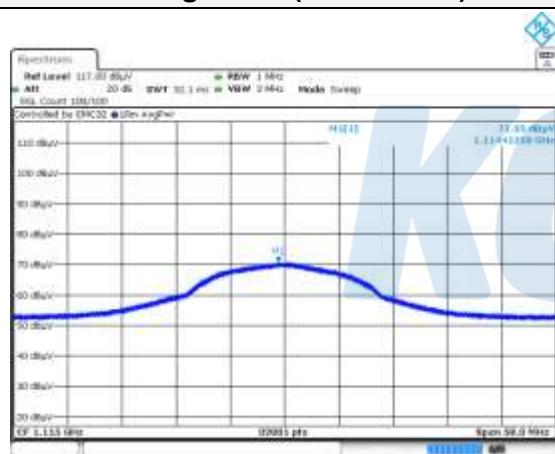
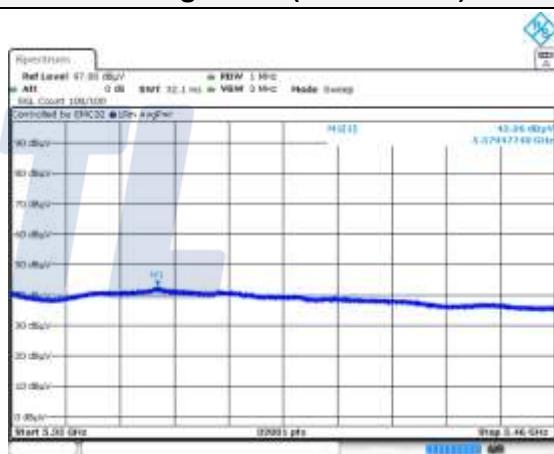
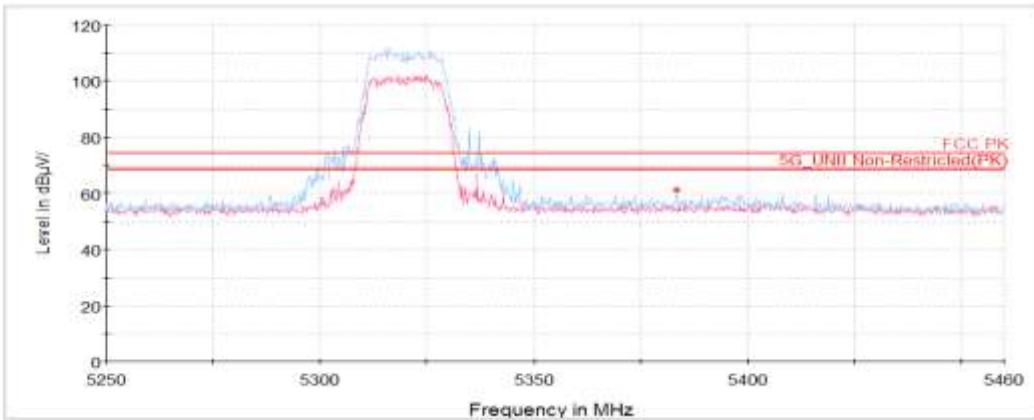
| Frequency | Pol. | Reading | Antenna Factor | Amp. + Cable | DCCF | Result | Limit | Margin |
|-------------------------|-------|----------------|----------------|--------------|------|------------------|------------------|--------|
| (MHz) | (V/H) | (dB(μ V)) | (dB) | (dB) | (dB) | (dB(μ V/m)) | (dB(μ V/m)) | (dB) |
| Peak data | | | | | | | | |
| 1 094.78 ¹⁾ | H | 77.80 | 27.84 | -50.62 | - | 55.02 | 74.00 | 18.98 |
| 7 066.73 | H | 66.90 | 35.40 | -52.37 | - | 49.93 | 68.20 | 18.27 |
| 10 594.72 | V | 63.46 | 37.46 | -49.86 | - | 51.06 | 68.20 | 17.14 |
| 15 897.44 ¹⁾ | V | 65.89 | 40.08 | -48.76 | - | 57.21 | 74.00 | 16.79 |
| Average Data | | | | | | | | |
| 1 094.78 ¹⁾ | H | 70.76 | 27.84 | -50.62 | - | 47.98 | 54.00 | 6.02 |
| 15 897.44 ¹⁾ | V | 57.29 | 40.08 | -48.76 | - | 48.61 | 54.00 | 5.39 |

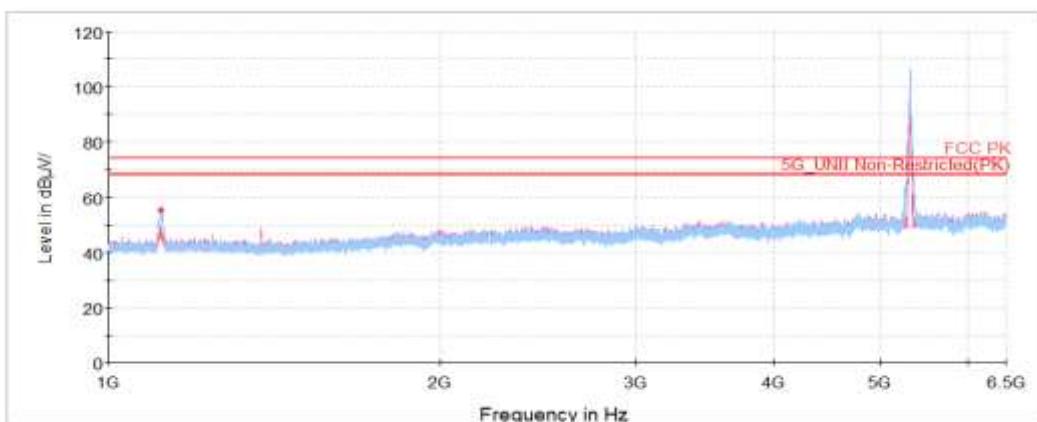
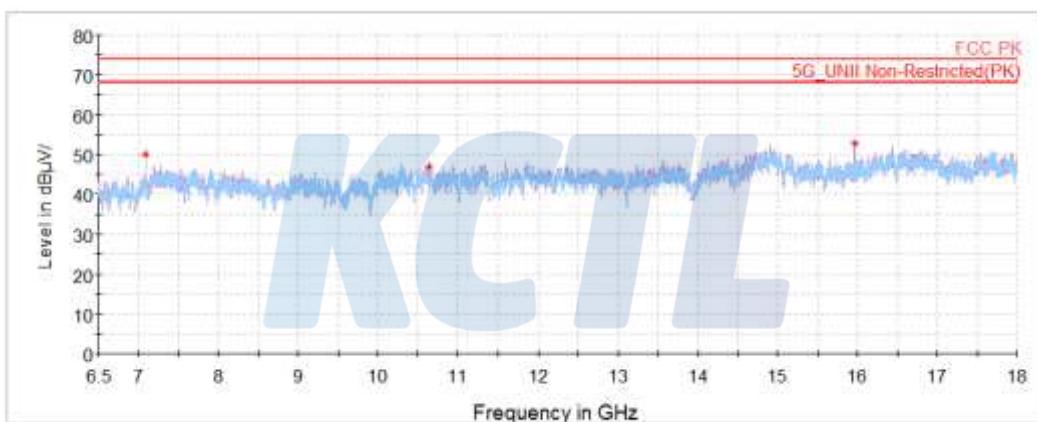
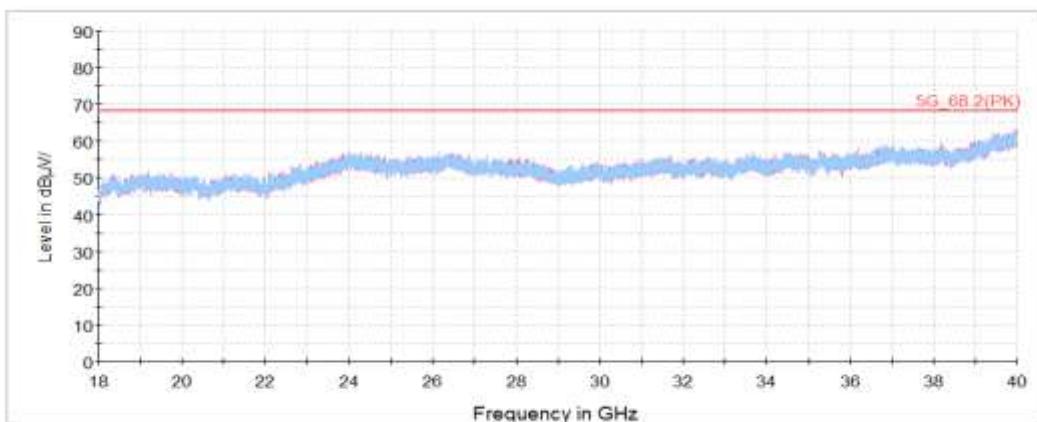
Average data (1 094.78 MHz)**Average data (15 897.44 MHz)**

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 (5 320 MHz)

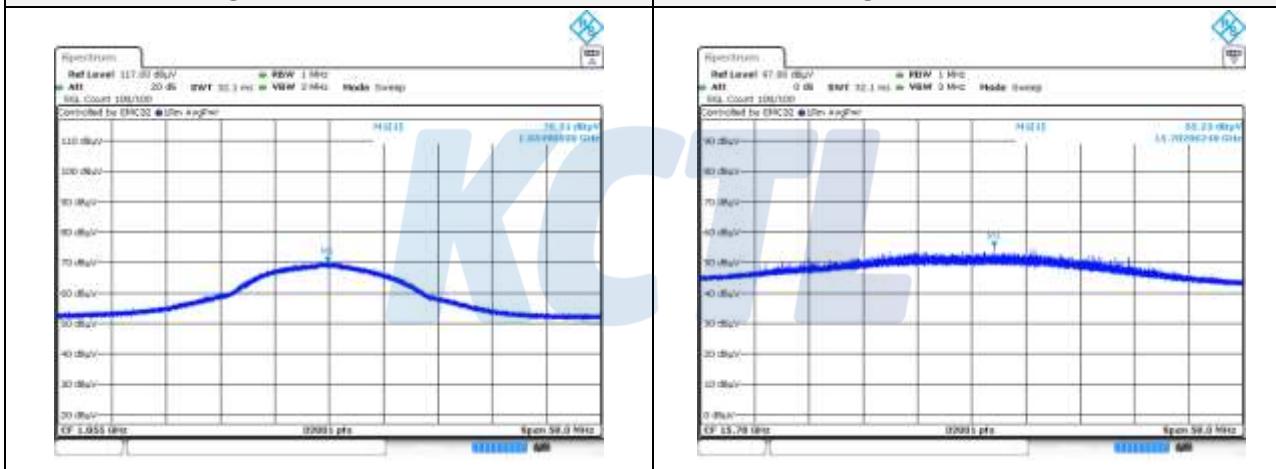
| Frequency | Pol. | Reading | Antenna Factor | Amp. + Cable | DCCF | Result | Limit | Margin |
|-------------------------|-------|----------------|----------------|--------------|------|------------------|------------------|--------|
| (MHz) | (V/H) | (dB(μ V)) | (dB) | (dB) | (dB) | (dB(μ V/m)) | (dB(μ V/m)) | (dB) |
| Peak data | | | | | | | | |
| 1 114.41 ¹⁾ | H | 78.15 | 27.85 | -50.50 | - | 55.50 | 74.00 | 18.50 |
| 5 379.48 ¹⁾ | H | 52.97 | 34.61 | -26.77 | - | 60.81 | 74.00 | 13.19 |
| 7 093.33 | H | 66.83 | 35.40 | -52.25 | - | 49.98 | 68.20 | 18.22 |
| 10 640.72 ¹⁾ | V | 59.49 | 37.48 | -49.96 | - | 47.01 | 74.00 | 26.99 |
| 15 955.80 ¹⁾ | V | 61.41 | 40.09 | -48.79 | - | 52.71 | 74.00 | 21.29 |
| Average Data | | | | | | | | |
| 1 114.41 ¹⁾ | H | 71.05 | 27.85 | -50.50 | - | 48.40 | 54.00 | 5.60 |
| 5 379.48 ¹⁾ | H | 43.06 | 34.61 | -26.77 | - | 50.90 | 54.00 | 3.10 |

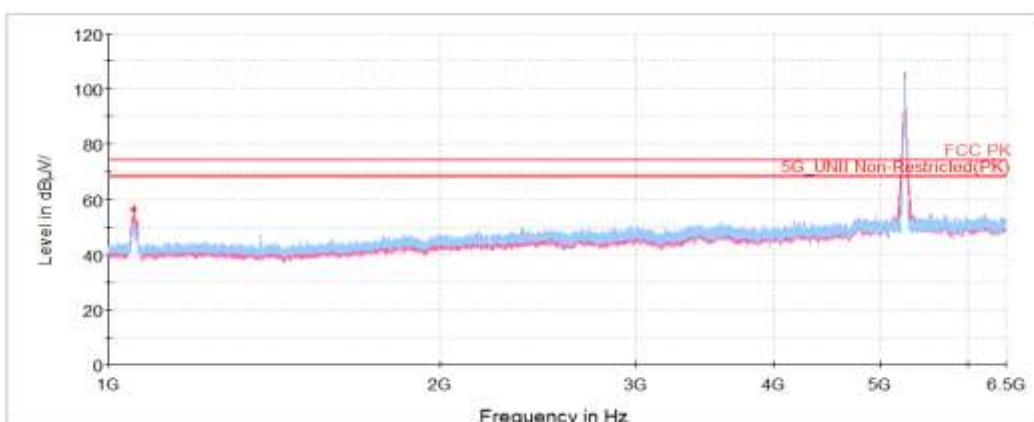
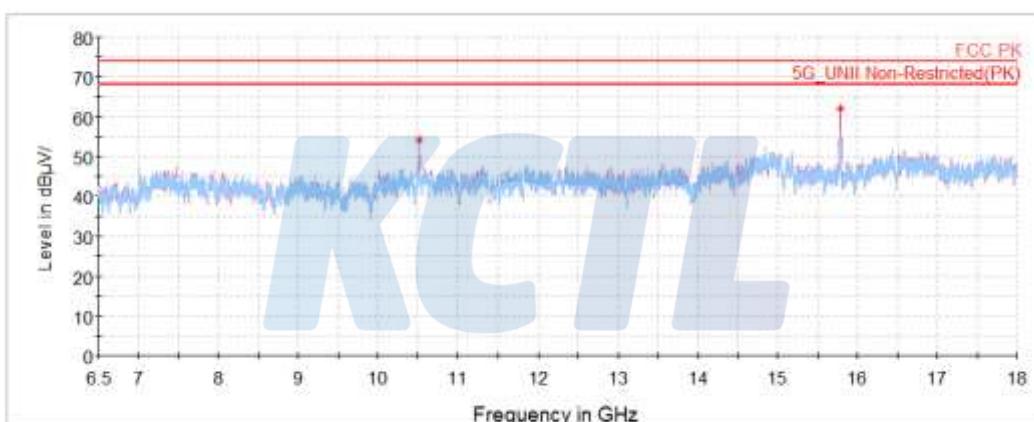
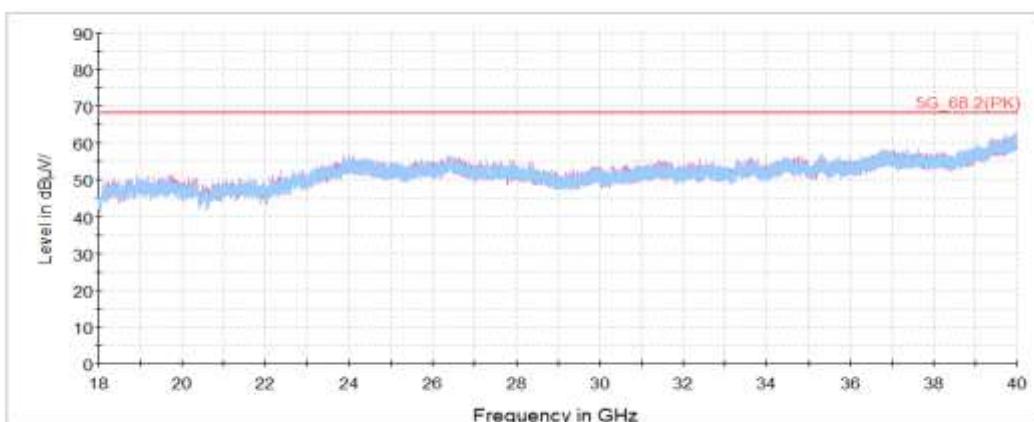
Average data (1 114.41 MHz)**Average data (5 379.48 MHz)****Horizontal/Vertical for Band-edge**

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

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

| Frequency | Pol. | Reading | Antenna Factor | Amp. + Cable | DCCF | Result | Limit | Margin |
|-------------------------|-------|----------|----------------|--------------|------|------------|------------|--------|
| (MHz) | (V/H) | (dB(µV)) | (dB) | (dB) | (dB) | (dB(µV/m)) | (dB(µV/m)) | (dB) |
| Peak data | | | | | | | | |
| 1 054.90 ¹⁾ | V | 79.20 | 27.82 | -50.61 | - | 56.41 | 74.00 | 17.59 |
| 10 517.09 | V | 66.47 | 37.41 | -49.69 | - | 54.19 | 68.20 | 14.01 |
| 15 782.06 ¹⁾ | V | 70.62 | 40.06 | -48.7 | - | 61.98 | 74.00 | 12.02 |
| Average Data | | | | | | | | |
| 1 054.90 ¹⁾ | V | 70.31 | 27.82 | -50.61 | - | 47.75 | 54.00 | 6.48 |
| 15 782.06 ¹⁾ | V | 55.23 | 40.06 | -48.7 | - | 46.59 | 54.00 | 7.41 |

Average data (1 054.90 MHz)**Average data (15 782.06 MHz)**

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

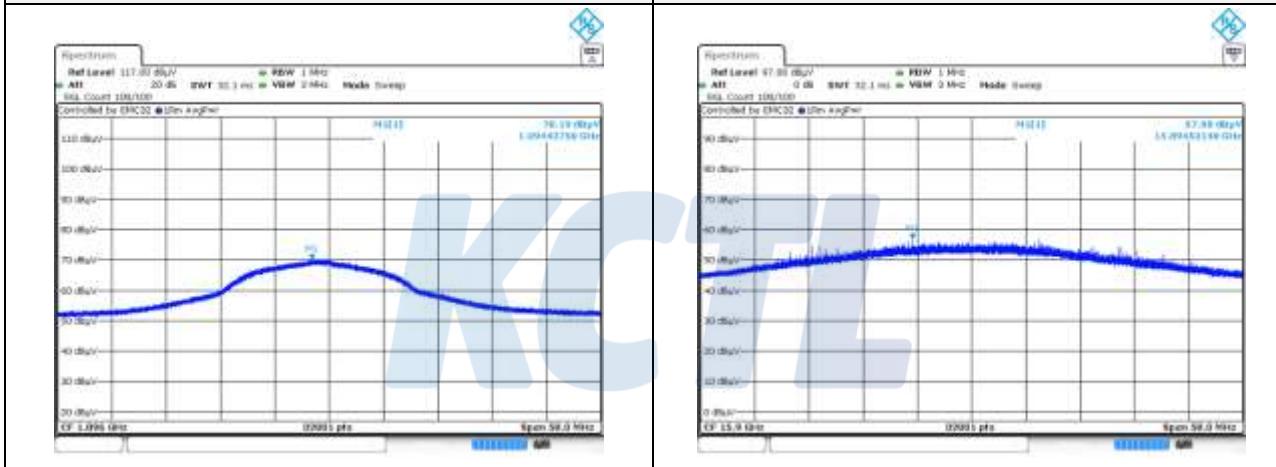
KCTL Inc.

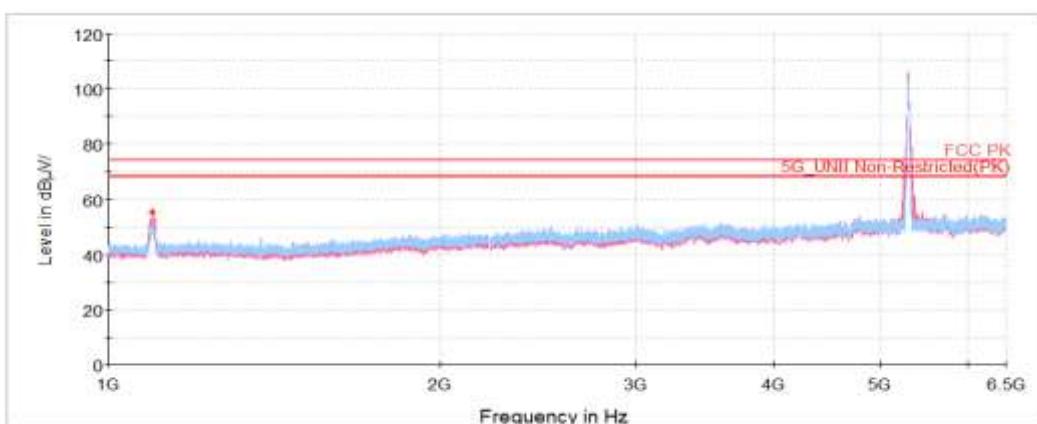
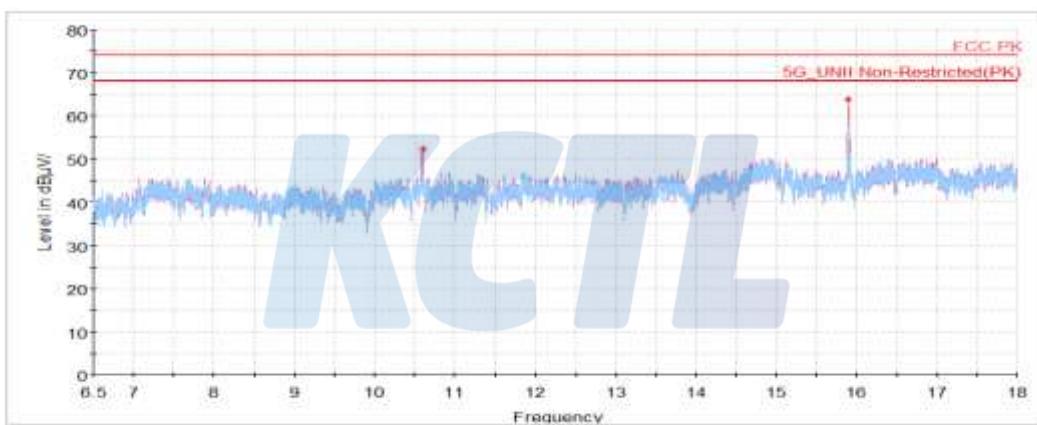
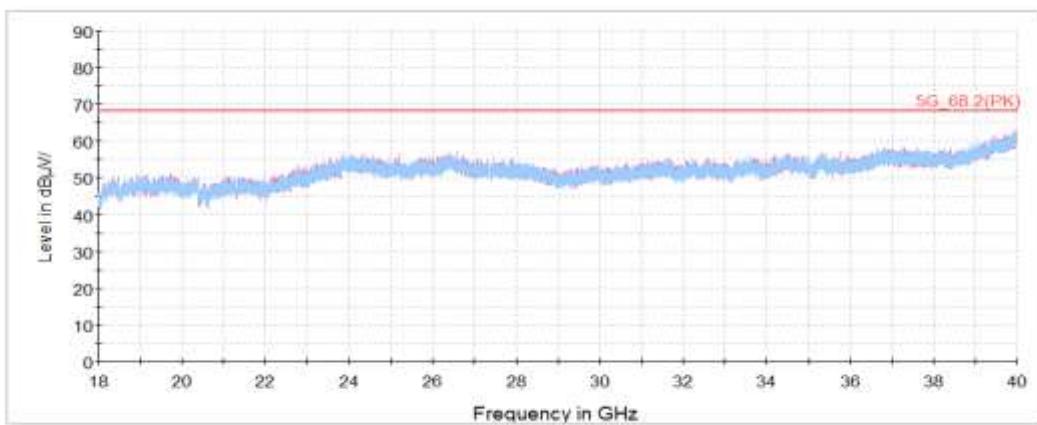
65, Sinwon-ro, Yeongtong-gu,
Suwon-si, Gyeonggi-do, 16677, Korea
TEL: 82-31-285-0894 FAX: 82-505-299-8311
www.kctl.co.kr

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KCTL**Middle Channel (5 300 MHz)**

| Frequency (MHz) | Pol. | Reading (dB(µV)) | Antenna Factor (dB) | Amp. + Cable (dB) | DCCF (dB) | Result (dB(µV/m)) | Limit (dB(µV/m)) | Margin (dB) |
|-------------------------|------|---------------------|------------------------|----------------------|--------------|----------------------|---------------------|----------------|
| Peak data | | | | | | | | |
| 1 094.44 ¹⁾ | V | 78.08 | 27.84 | -50.62 | - | 55.30 | 74.00 | 18.70 |
| 10 601.21 ¹⁾ | V | 64.65 | 37.46 | -49.88 | - | 52.23 | 74.00 | 21.77 |
| 15 894.53 ¹⁾ | V | 72.40 | 40.08 | -48.76 | - | 63.72 | 74.00 | 10.28 |
| Average Data | | | | | | | | |
| 1 094.44 ¹⁾ | V | 70.19 | 27.84 | -50.62 | - | 47.41 | 54.00 | 6.59 |
| 15 894.53 ¹⁾ | V | 57.08 | 40.08 | -48.76 | - | 48.40 | 54.00 | 5.60 |

Average data (1 094.44 MHz)**Average data (15 894.53 MHz)**

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.

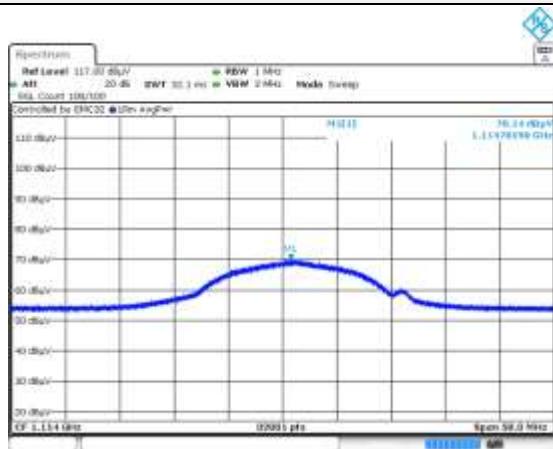
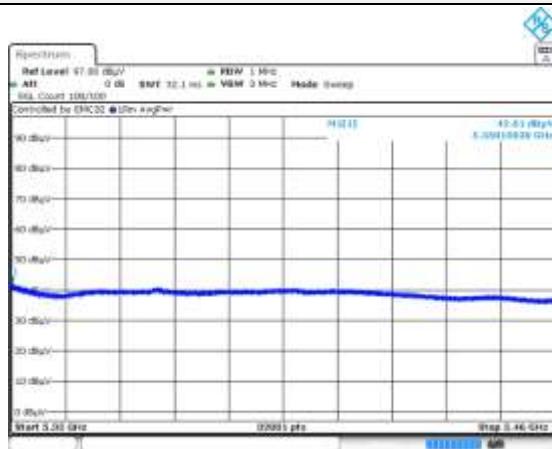
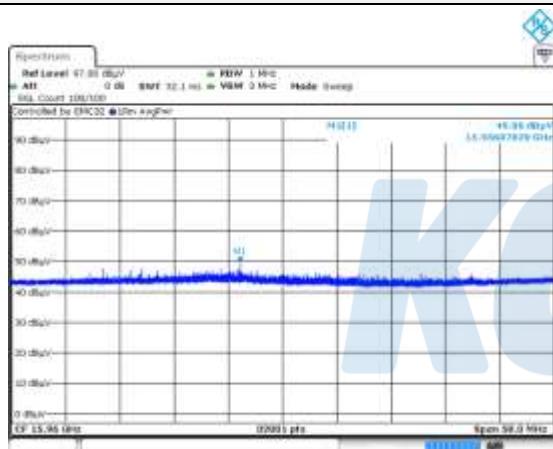
65, Sinwon-ro, Yeongtong-gu,
Suwon-si, Gyeonggi-do, 16677, Korea
TEL: 82-31-285-0894 FAX: 82-505-299-8311
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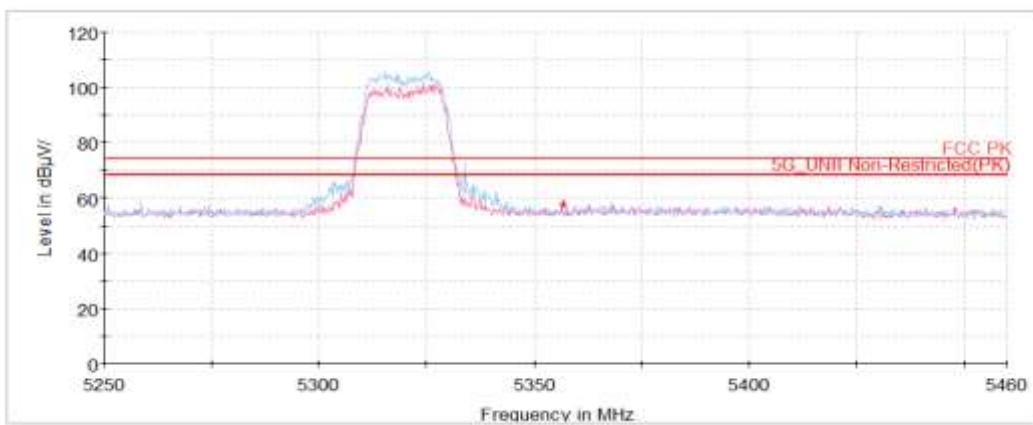
**Highest Channel (5 320 MHz)**

| Frequency (MHz) | Pol. (V/H) | Reading (dB(µV)) | Antenna Factor (dB) | Amp. + Cable (dB) | DCCF (dB) | Result (dB(µV/m)) | Limit (dB(µV/m)) | Margin (dB) |
|-------------------------|---------------|---------------------|---------------------------|----------------------|--------------|----------------------|---------------------|----------------|
| Peak data | | | | | | | | |
| 1 114.79 ¹⁾ | V | 78.70 | 27.85 | -50.50 | - | 56.05 | 74.00 | 17.95 |
| 5 350.11 ¹⁾ | V | 52.46 | 34.56 | -26.84 | - | 60.18 | 74.00 | 13.82 |
| 10 648.27 ¹⁾ | V | 62.22 | 37.49 | -49.98 | - | 49.73 | 74.00 | 24.27 |
| 15 956.08 ¹⁾ | V | 63.06 | 40.09 | -48.79 | - | 54.36 | 74.00 | 19.64 |
| Average Data | | | | | | | | |
| 1 114.79 ¹⁾ | V | 70.14 | 27.85 | -50.50 | - | 47.49 | 54.00 | 6.51 |
| 5 350.11 ¹⁾ | V | 42.61 | 34.56 | -26.84 | - | 50.33 | 54.00 | 3.67 |
| 15 956.08 ¹⁾ | V | 49.86 | 40.09 | -48.79 | - | 41.16 | 54.00 | 12.84 |



Average data (1 114.79 MHz)**Average data (5 350.11 MHz)****Average data (15 956.08 MHz)**

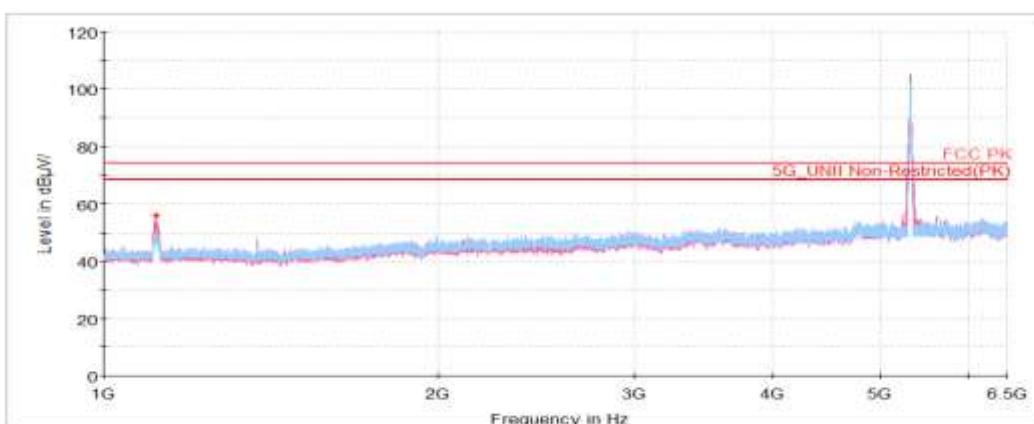
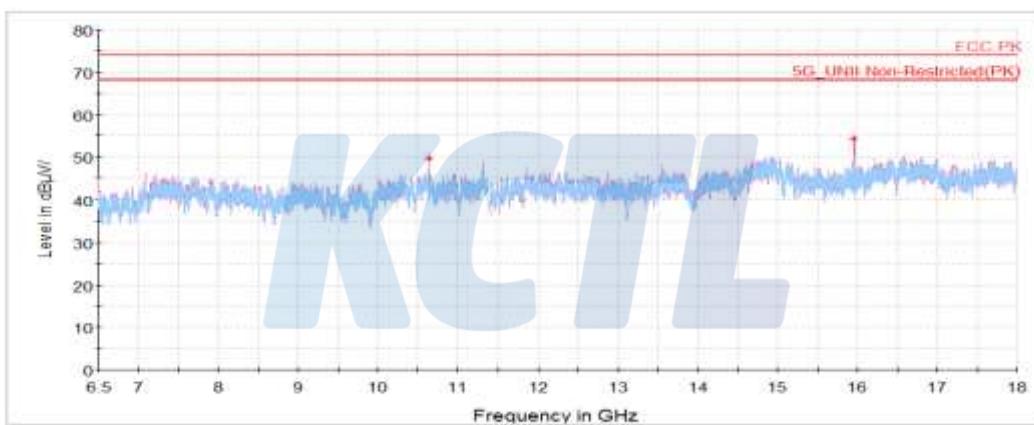
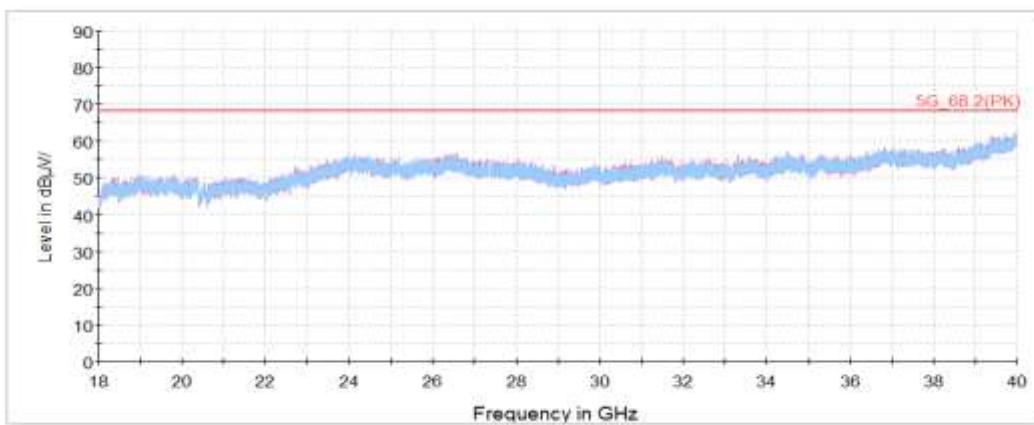
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Horizontal/Vertical for Band-edge

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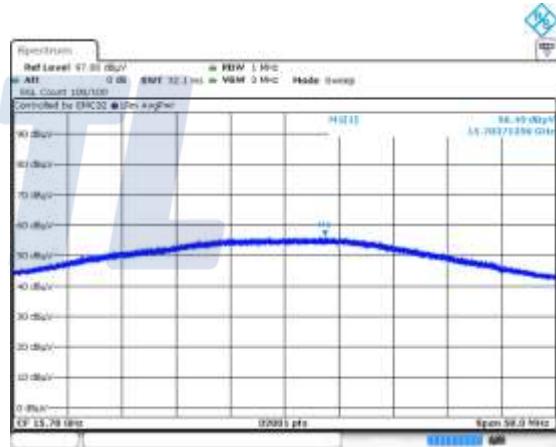
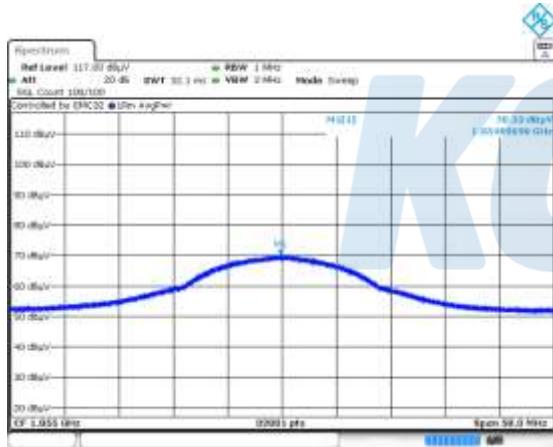
65, Sinwon-ro, Yeongtong-gu,
Suwon-si, Gyeonggi-do, 16677, Korea
TEL: 82-31-285-0894 FAX: 82-505-299-8311
www.kctl.co.kr

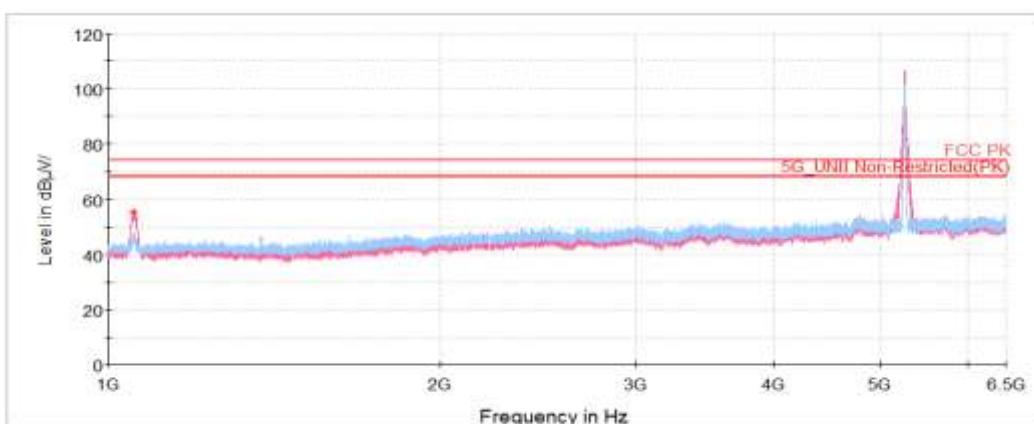
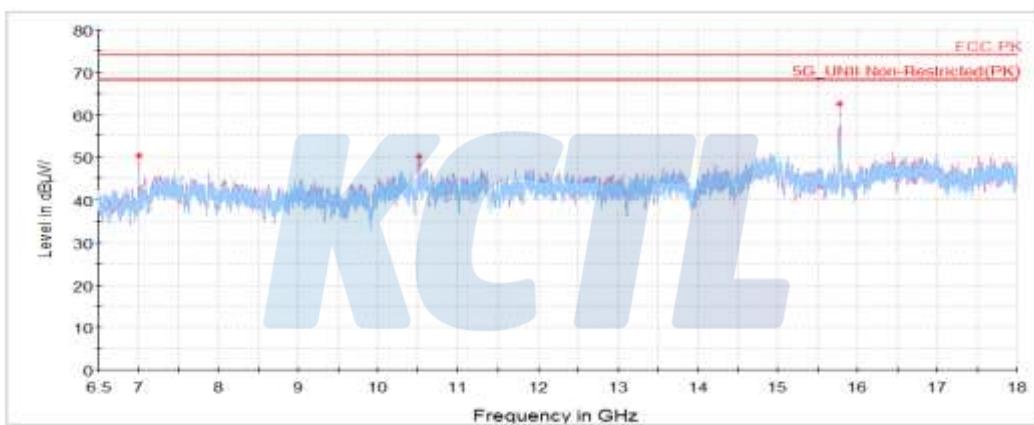
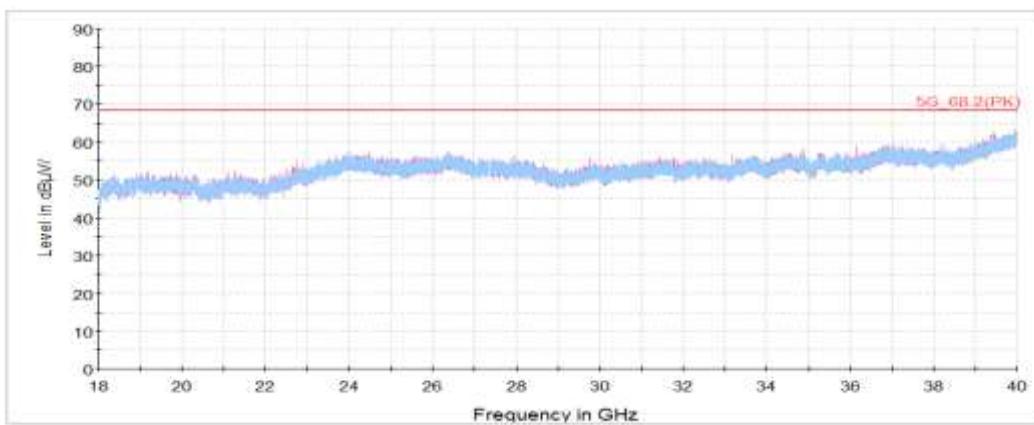
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KCTL**Horizontal/Vertical for 1 GHz ~ 6.5 GHz****Horizontal/Vertical for 6.5 GHz ~ 18 GHz****Horizontal/Vertical for 18 GHz ~ 40 GHz**

802.11ac VHT20 UNII 2A ANT 3**Lowest Channel (5 260 MHz)**

| Frequency (MHz) | Pol. | Reading (dB(μ V)) | Antenna Factor (dB) | Amp. + Cable (dB) | DCCF (dB) | Result (dB(μ V/m)) | Limit (dB(μ V/m)) | Margin (dB) |
|-------------------------|------|---------------------------|------------------------|----------------------|--------------|----------------------------|---------------------------|----------------|
| Peak data | | | | | | | | |
| 1 054.90 ¹⁾ | V | 78.22 | 27.82 | -50.61 | - | 55.43 | 74.00 | 18.57 |
| 7 013.19 | V | 67.44 | 35.40 | -52.62 | - | 50.22 | 68.20 | 17.98 |
| 10 517.81 | V | 62.34 | 37.41 | -49.69 | - | 50.06 | 68.20 | 18.14 |
| 15 783.71 ¹⁾ | V | 71.12 | 40.06 | -48.70 | - | 62.48 | 74.00 | 11.52 |
| Average Data | | | | | | | | |
| 1 054.90 ¹⁾ | V | 70.33 | 27.82 | -50.61 | - | 47.54 | 54.00 | 6.46 |
| 15 783.71 ¹⁾ | V | 56.49 | 40.06 | -48.70 | - | 47.85 | 54.00 | 6.15 |

Average data (1 054.90 MHz)**Average data (15 783.71 MHz)**

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.

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 Suwon-si, Gyeonggi-do, 16677, Korea
 TEL: 82-31-285-0894 FAX: 82-505-299-8311
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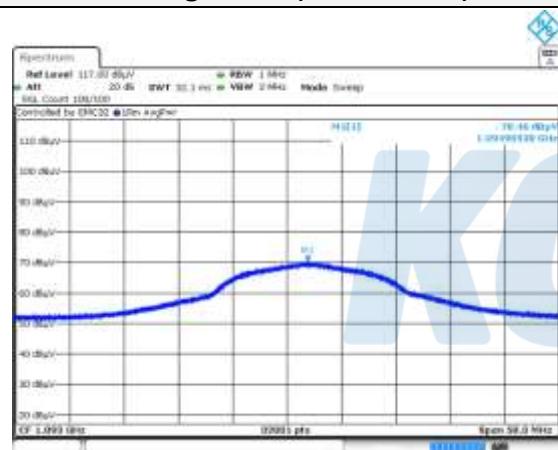
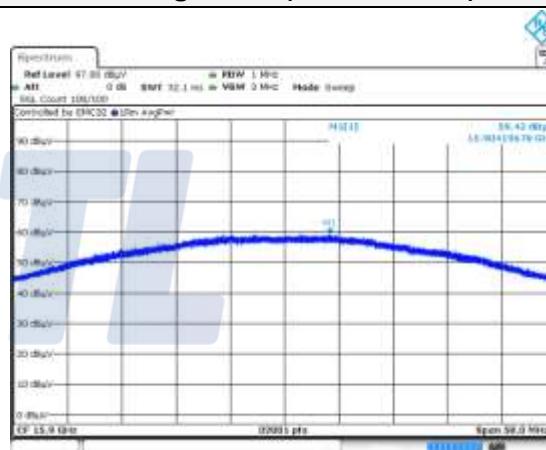
Report No.:

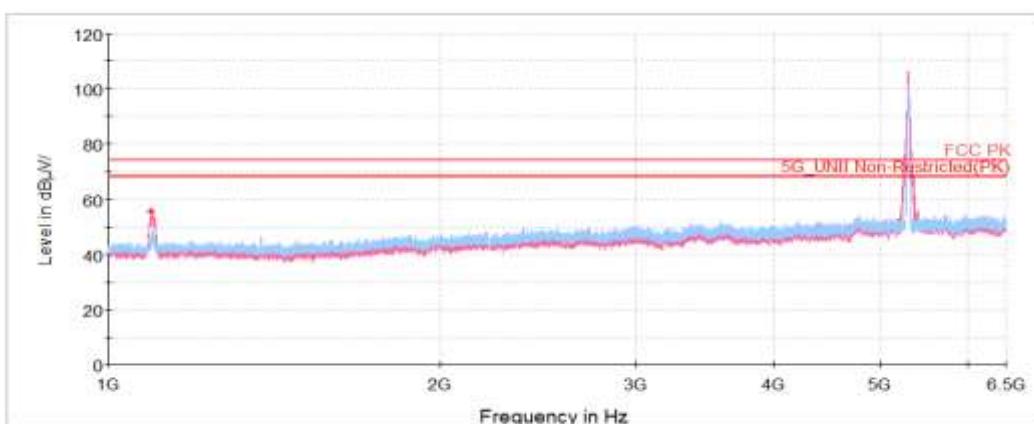
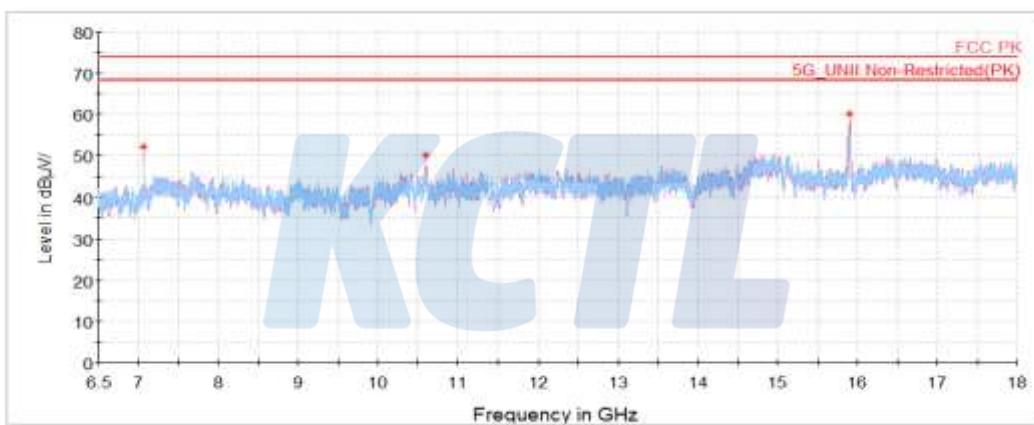
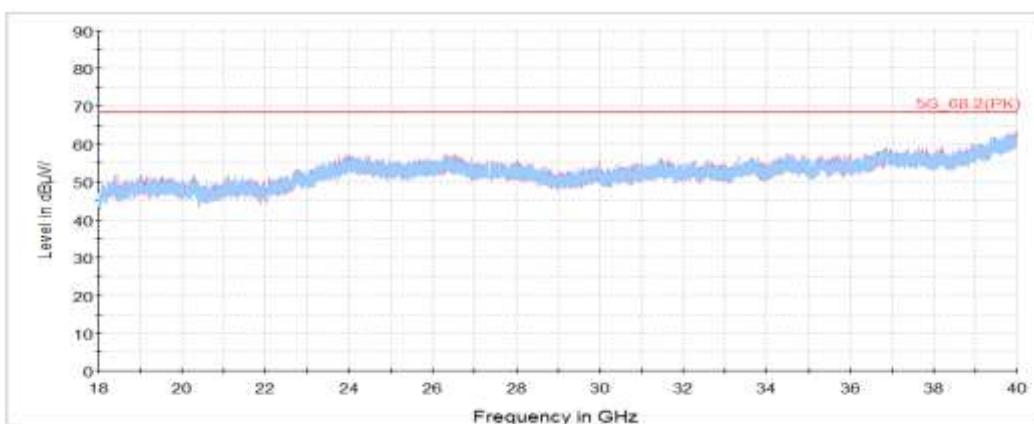
KR20-SRF0030-D

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KCTL**Middle Channel (5 300 MHz)**

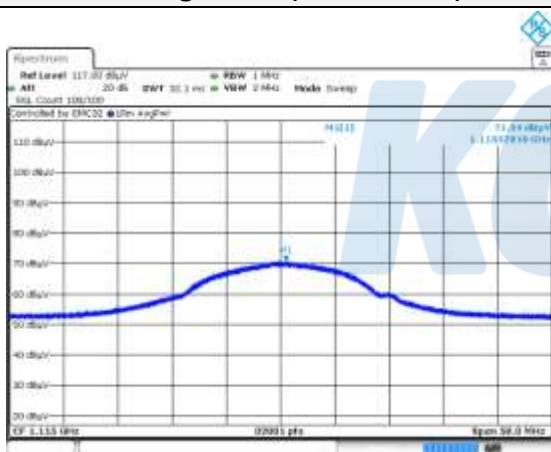
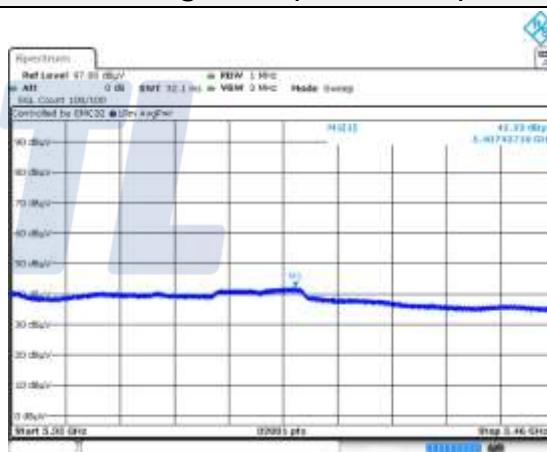
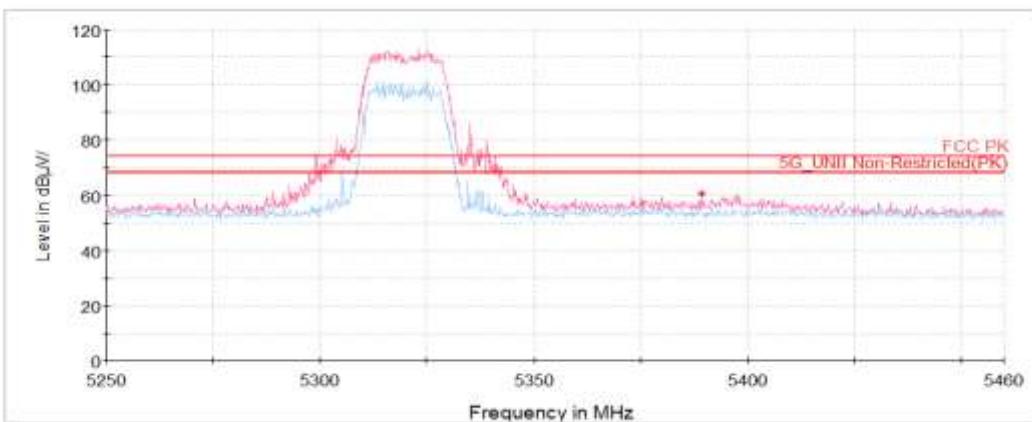
| Frequency | Pol. | Reading | Antenna Factor | Amp. + Cable | DCCF | Result | Limit | Margin |
|-------------------------|-------|----------------|----------------|--------------|------|------------------|------------------|--------|
| (MHz) | (V/H) | (dB(μ V)) | (dB) | (dB) | (dB) | (dB(μ V/m)) | (dB(μ V/m)) | (dB) |
| Peak data | | | | | | | | |
| 1 094.91 ¹⁾ | V | 78.63 | 27.84 | -50.62 | - | 55.85 | 74.00 | 18.15 |
| 7 066.73 | V | 69.08 | 35.40 | -52.37 | - | 52.11 | 68.20 | 16.09 |
| 10 605.14 ¹⁾ | V | 62.40 | 37.46 | -49.88 | - | 49.98 | 74.00 | 24.02 |
| 15 904.20 ¹⁾ | V | 68.90 | 40.08 | -48.76 | - | 60.22 | 74.00 | 13.78 |
| Average Data | | | | | | | | |
| 1 094.91 ¹⁾ | V | 70.46 | 27.84 | -50.62 | - | 47.68 | 54.00 | 6.32 |
| 15 904.20 ¹⁾ | V | 59.42 | 40.08 | -48.76 | - | 50.74 | 54.00 | 3.26 |

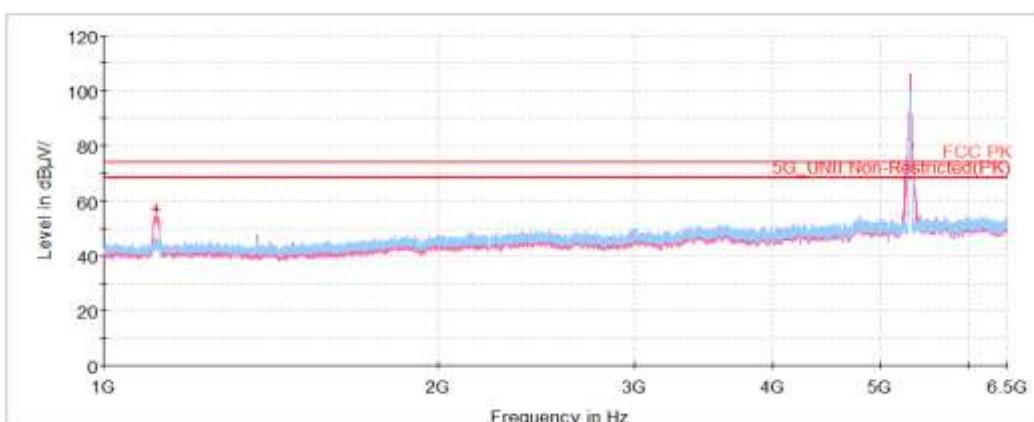
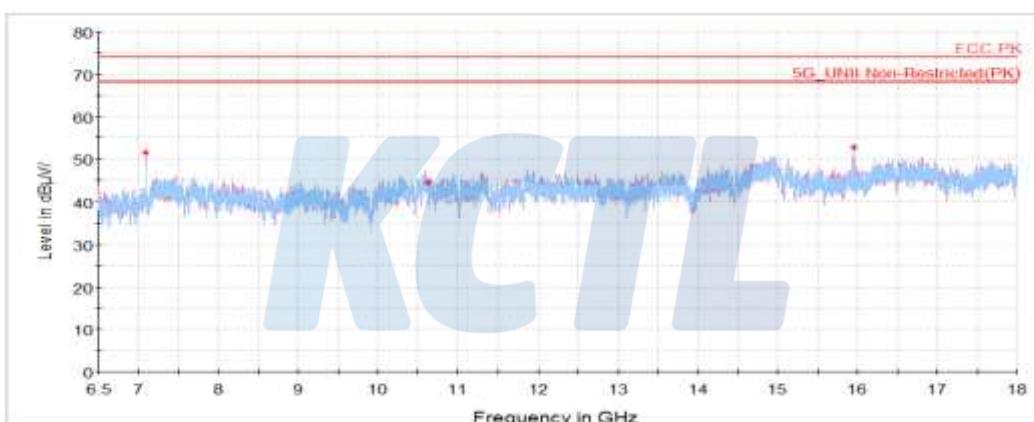
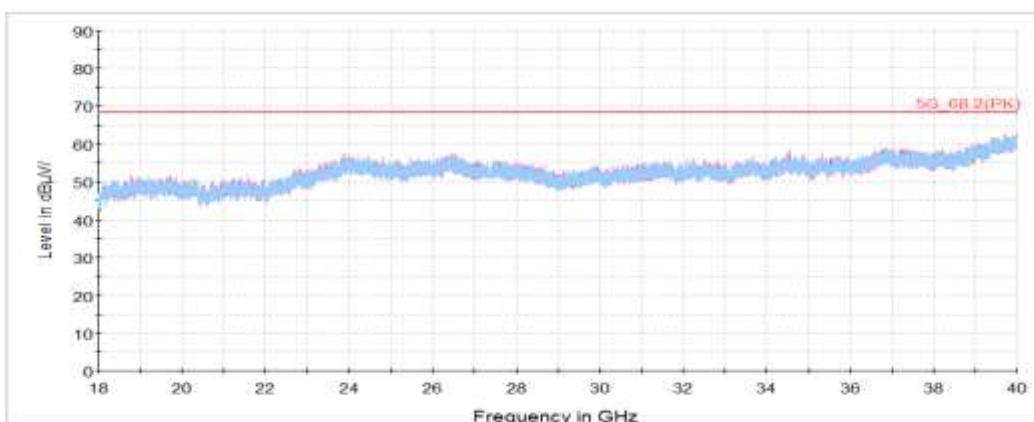
Average data (1 094.91 MHz)**Average data (15 904.20 MHz)**

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 (5 320 MHz)

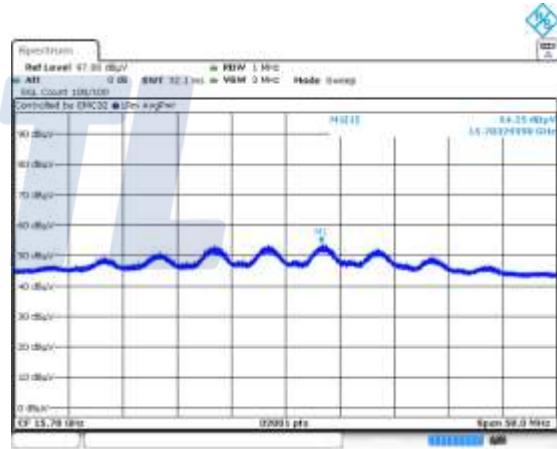
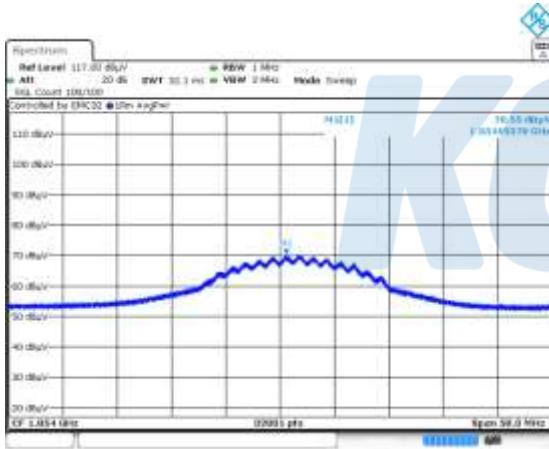
| Frequency | Pol. | Reading | Antenna Factor | Amp. + Cable | DCCF | Result | Limit | Margin |
|-------------------------|-------|----------------|----------------|--------------|------|------------------|------------------|--------|
| (MHz) | (V/H) | (dB(μ V)) | (dB) | (dB) | (dB) | (dB(μ V/m)) | (dB(μ V/m)) | (dB) |
| Peak data | | | | | | | | |
| 1 115.53 ¹⁾ | V | 79.89 | 27.85 | -50.49 | - | 57.25 | 74.00 | 16.75 |
| 5 407.44 ¹⁾ | V | 52.48 | 34.65 | -26.80 | - | 60.33 | 74.00 | 13.67 |
| 7 092.97 | V | 68.22 | 35.40 | -52.25 | - | 51.37 | 68.20 | 16.83 |
| 10 635.69 ¹⁾ | V | 56.99 | 37.48 | -49.95 | - | 44.52 | 74.00 | 29.48 |
| 15 954.32 ¹⁾ | V | 61.37 | 40.09 | -48.79 | - | 52.67 | 74.00 | 21.33 |
| Average Data | | | | | | | | |
| 1 115.53 ¹⁾ | V | 71.04 | 27.85 | -50.49 | - | 48.40 | 54.00 | 5.60 |
| 5 407.44 ¹⁾ | V | 42.33 | 34.65 | -26.80 | - | 50.18 | 54.00 | 3.82 |

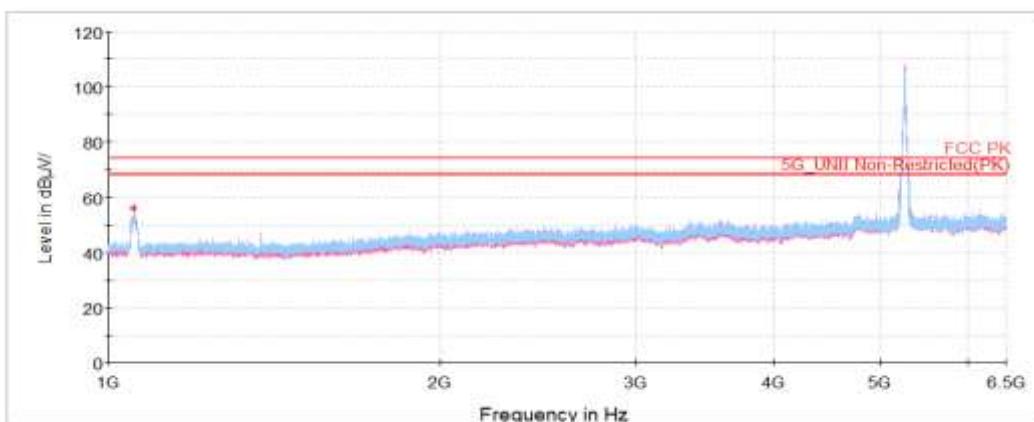
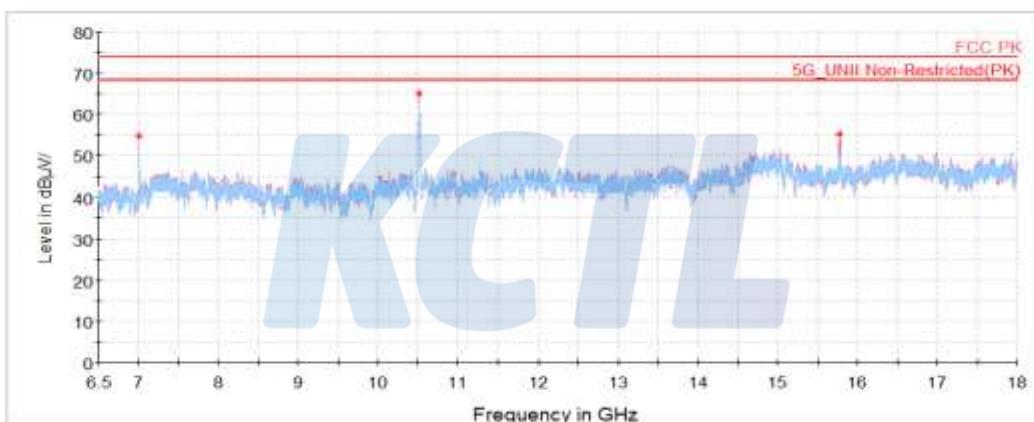
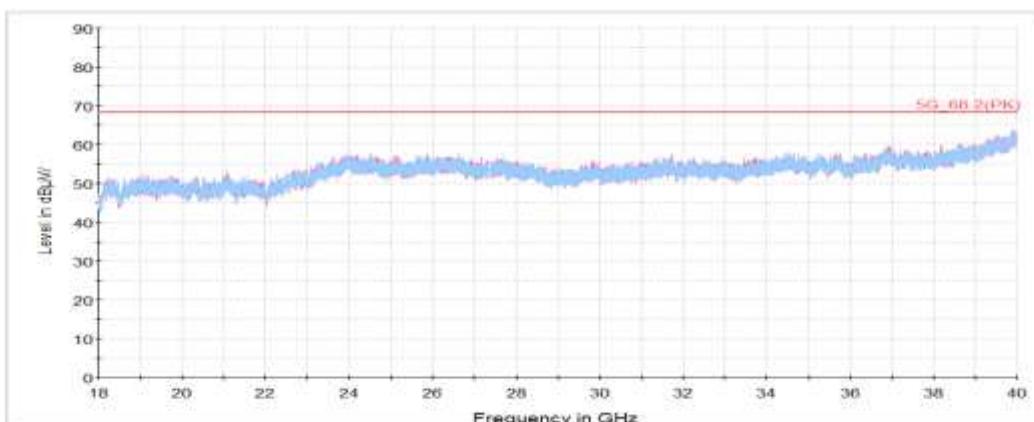
Average data (1 115.53 MHz)**Average data (5 407.44 MHz)****Horizontal/Vertical for Band-edge**

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

802.11ac VHT20 UNII 2A 4TX MINO**Lowest Channel (5 260 MHz)**

| Frequency (MHz) | Pol. | Reading (dB(µV)) | Antenna Factor (dB) | Amp. + Cable (dB) | DCCF (dB) | Result (dB(µV/m)) | Limit (dB(µV/m)) | Margin (dB) |
|-------------------------|------|---------------------|------------------------|----------------------|--------------|----------------------|---------------------|----------------|
| Peak data | | | | | | | | |
| 1 054.59 ¹⁾ | V | 79.01 | 27.82 | -50.61 | - | 56.22 | 74.00 | 17.78 |
| 7 013.55 | H | 71.88 | 35.40 | -52.62 | - | 54.66 | 68.20 | 13.54 |
| 10 521.05 | V | 77.27 | 37.41 | -49.70 | - | 64.98 | 68.20 | 3.22 |
| 15 783.30 ¹⁾ | V | 63.88 | 40.06 | -48.70 | - | 55.24 | 74.00 | 18.76 |
| Average Data | | | | | | | | |
| 1 054.59 ¹⁾ | V | 70.55 | 27.82 | -50.61 | - | 47.76 | 54.00 | 6.24 |
| 15 783.30 ¹⁾ | V | 54.25 | 40.06 | -48.70 | - | 45.61 | 54.00 | 8.39 |

Average data (1 054.59 MHz)**Average data (15 783.30 MHz)**

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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TEL: 82-31-285-0894 FAX: 82-505-299-8311
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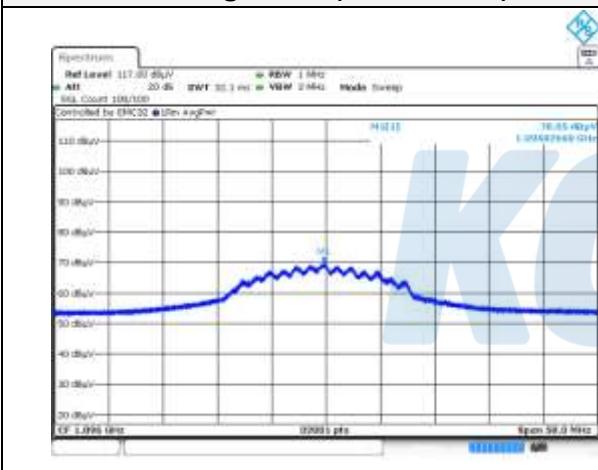
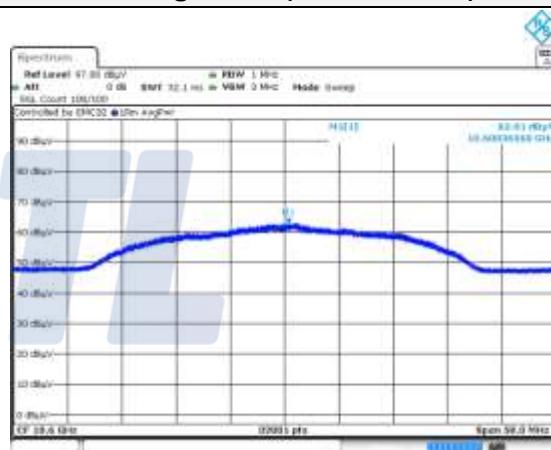
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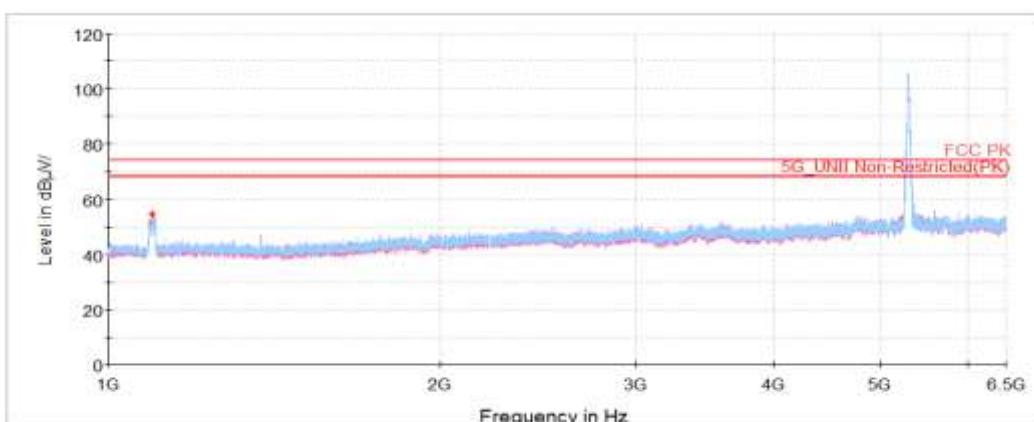
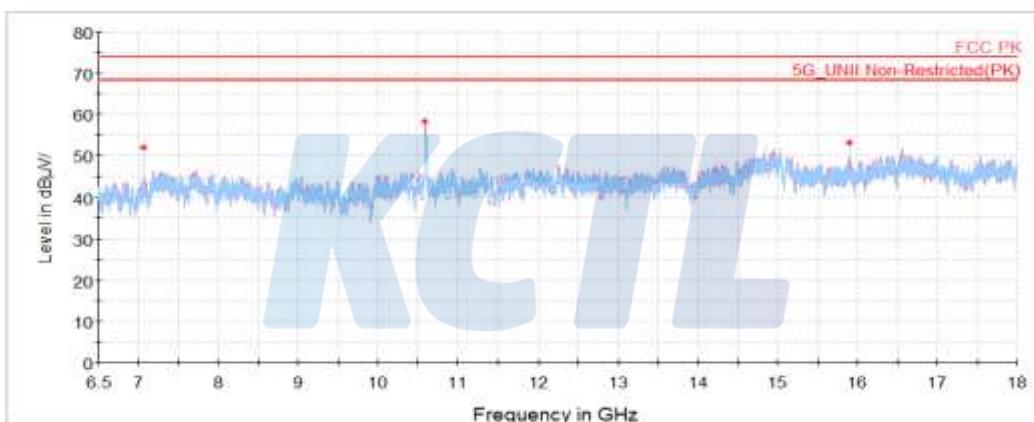
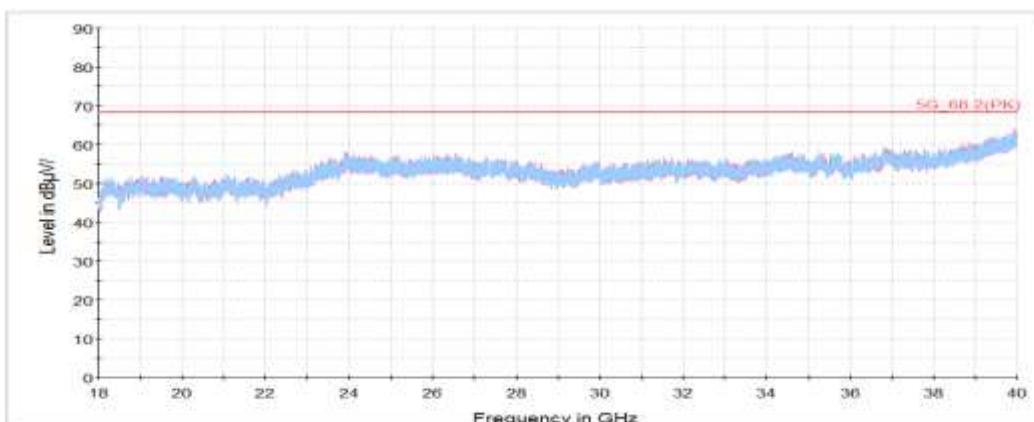
KR20-SRF0030-D

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KCTL**Middle Channel (5 300 MHz)**

| Frequency | Pol. | Reading | Antenna Factor | Amp. + Cable | DCCF | Result | Limit | Margin |
|-------------------------|-------|----------------|----------------|--------------|------|------------------|------------------|--------|
| (MHz) | (V/H) | (dB(μ V)) | (dB) | (dB) | (dB) | (dB(μ V/m)) | (dB(μ V/m)) | (dB) |
| Peak data | | | | | | | | |
| 1 095.83 ¹⁾ | H | 77.60 | 27.84 | -50.62 | - | 54.82 | 74.00 | 19.18 |
| 7 066.73 | V | 68.88 | 35.40 | -52.37 | - | 51.91 | 68.20 | 16.29 |
| 10 600.37 ¹⁾ | V | 70.59 | 37.46 | -49.87 | - | 58.18 | 74.00 | 15.82 |
| 15 898.03 ¹⁾ | H | 61.78 | 40.08 | -48.76 | - | 53.10 | 74.00 | 20.90 |
| Average Data | | | | | | | | |
| 1 095.83 ¹⁾ | V | 70.05 | 27.84 | -50.62 | - | 47.27 | 54.00 | 6.73 |
| 10 600.37 ¹⁾ | V | 63.01 | 37.46 | -49.87 | - | 50.60 | 54.00 | 3.40 |

Average data (1 095.83 MHz)**Average data (10 600.37 MHz)**

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.

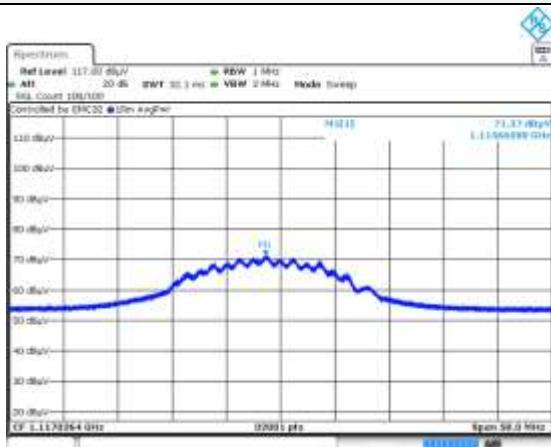
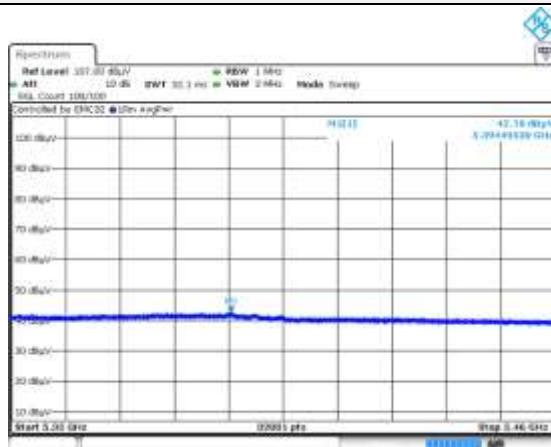
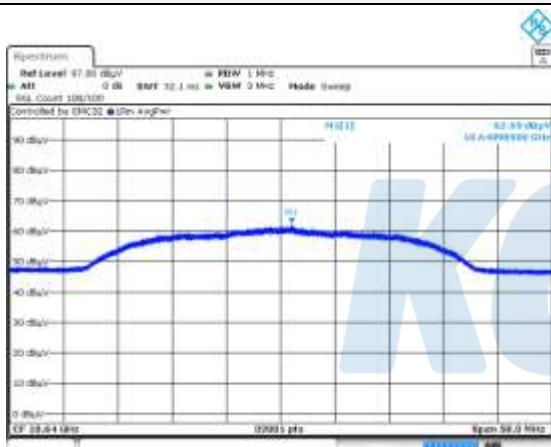
65, Sinwon-ro, Yeongtong-gu,
 Suwon-si, Gyeonggi-do, 16677, Korea
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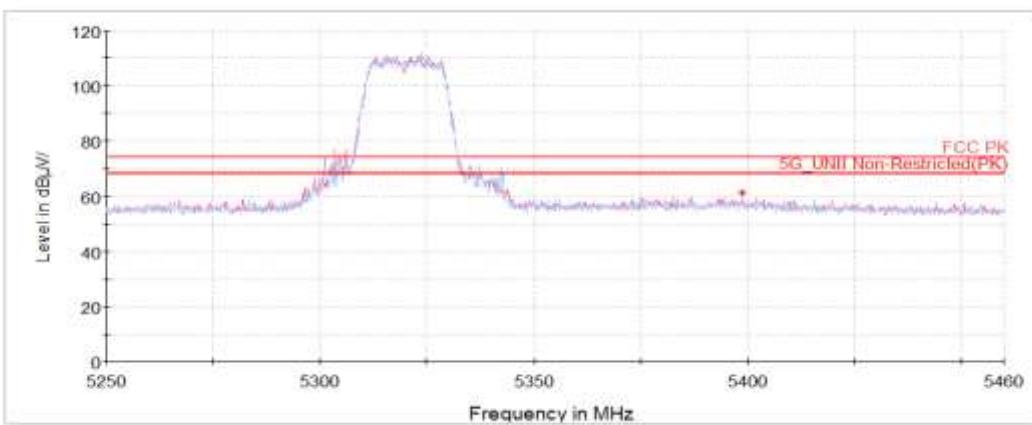
**Highest Channel (5 320 MHz)**

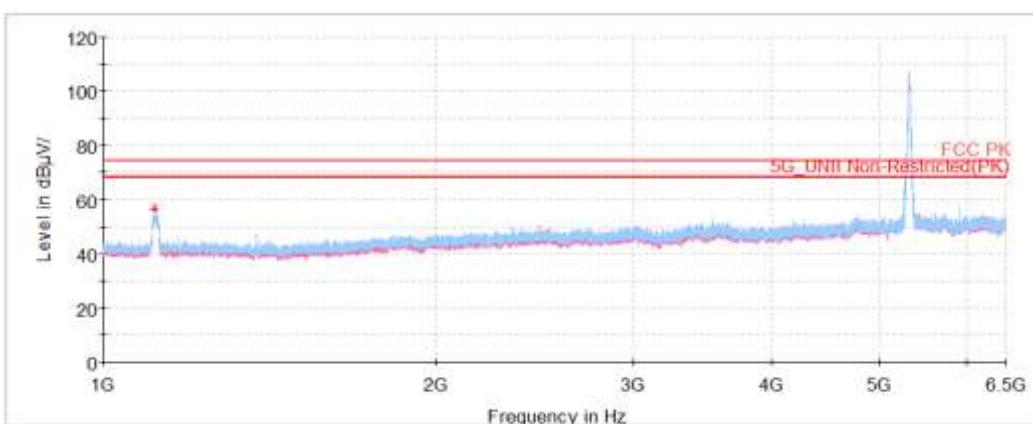
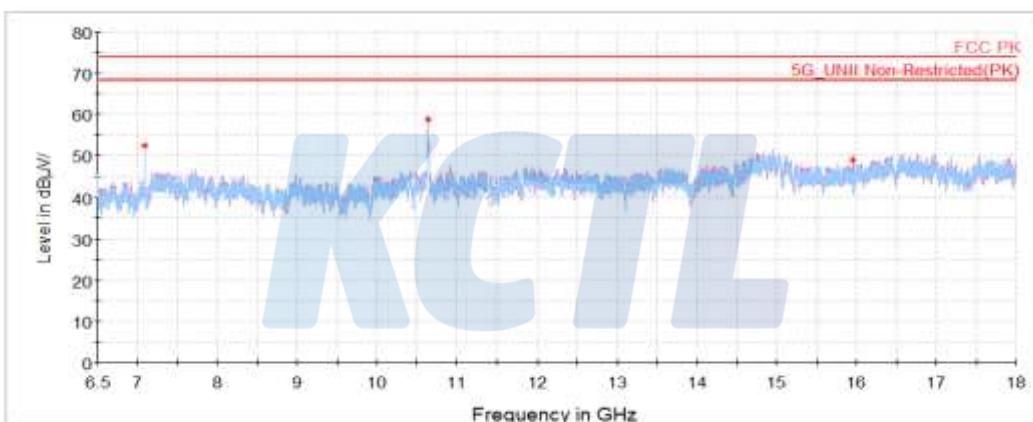
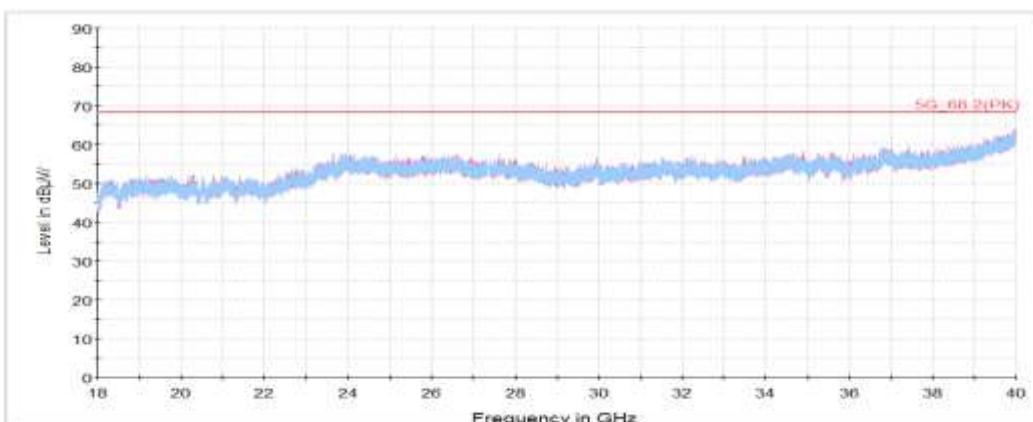
| Frequency (MHz) | Pol. | Reading (dB(µV)) | Antenna Factor | Amp. + Cable | DCCF | Result (dB(µV/m)) | Limit (dB(µV/m)) | Margin |
|-------------------------|------|---------------------|----------------|--------------|------|----------------------|---------------------|--------|
| Peak data | | | | | | | | |
| 1 115.66 ¹⁾ | H | 77.46 | 27.85 | -50.49 | - | 54.82 | 74.00 | 19.18 |
| 5 394.50 ¹⁾ | H | 53.27 | 34.63 | -26.73 | - | 61.17 | 74.00 | 12.83 |
| 7 093.33 | H | 69.22 | 35.40 | -52.25 | - | 52.37 | 68.20 | 15.83 |
| 10 640.00 ¹⁾ | V | 71.18 | 37.48 | -49.96 | - | 58.70 | 74.00 | 15.30 |
| 15 959.83 ¹⁾ | V | 57.59 | 40.09 | -48.79 | - | 48.89 | 74.00 | 25.11 |
| Average Data | | | | | | | | |
| 1 115.66 ¹⁾ | V | 71.37 | 27.85 | -50.49 | - | 48.73 | 54.00 | 5.27 |
| 5 394.50 ¹⁾ | H | 42.78 | 34.63 | -26.73 | - | 50.68 | 54.00 | 3.32 |
| 10 640.00 ¹⁾ | V | 62.69 | 37.48 | -49.96 | - | 50.21 | 54.00 | 3.79 |



Average data (1 115.66 MHz)**Average data (5 394.50 MHz)****Average data (10 640.00 MHz)**

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**

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Report No.:

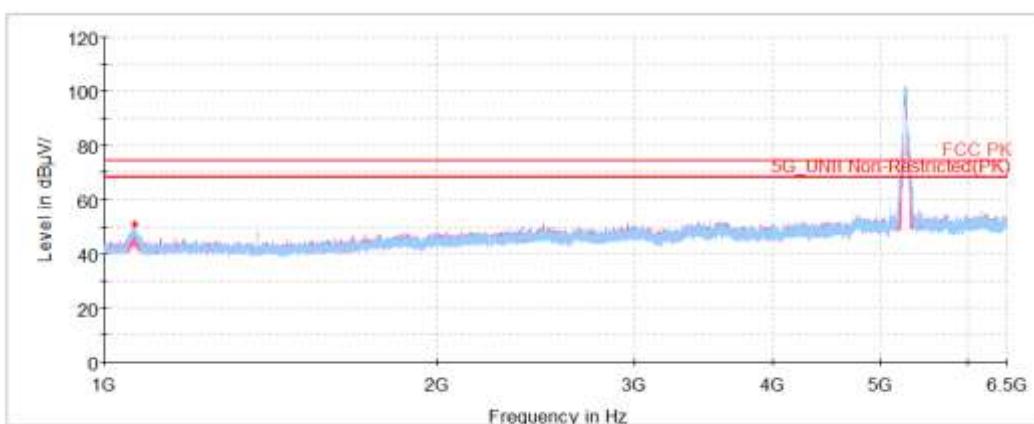
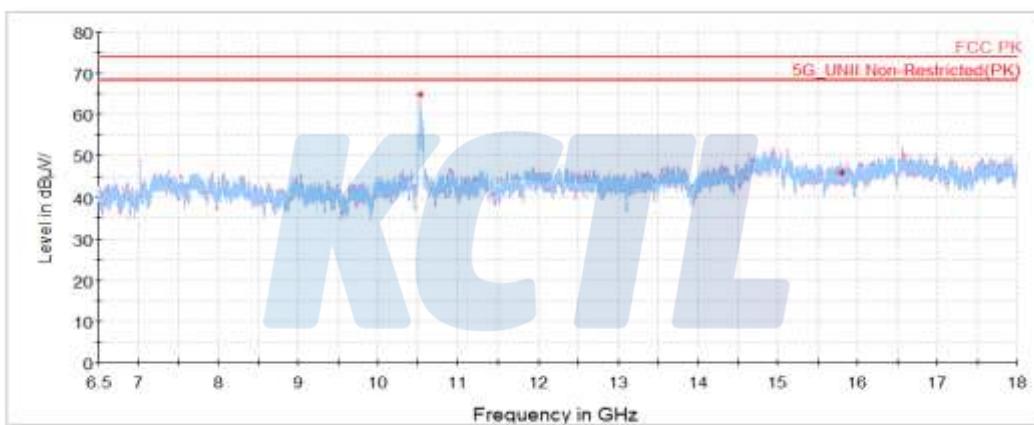
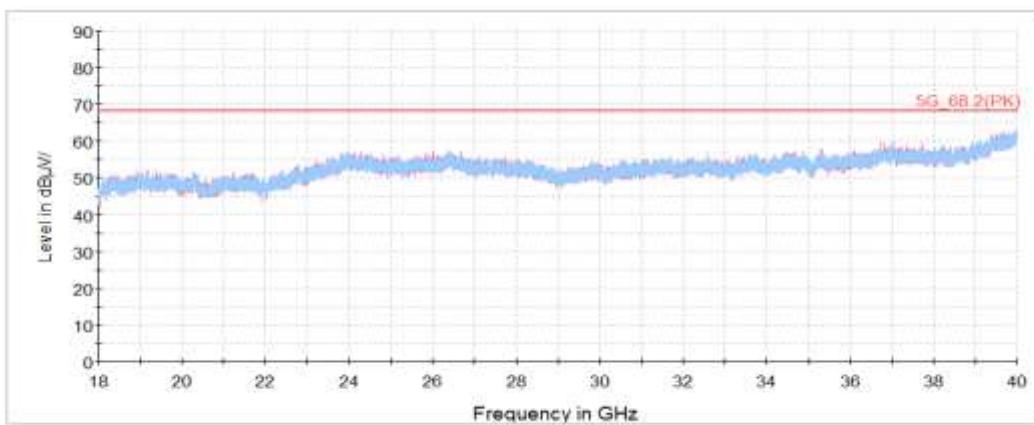
KR20-SRF0030-D

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**802.11ac VHT40 UNII 2A ANT 0****Lowest Channel (5 270 MHz)**

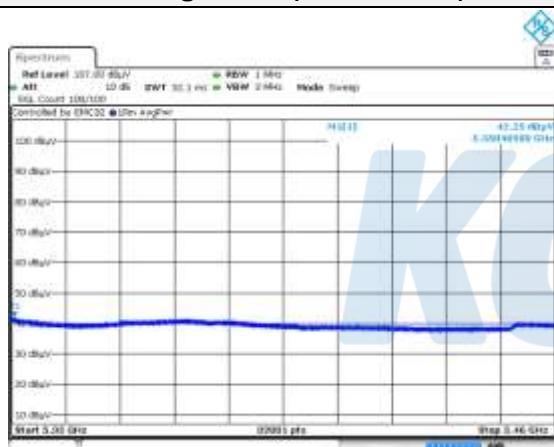
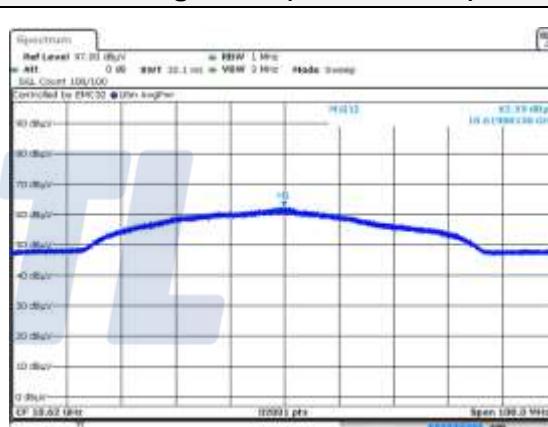
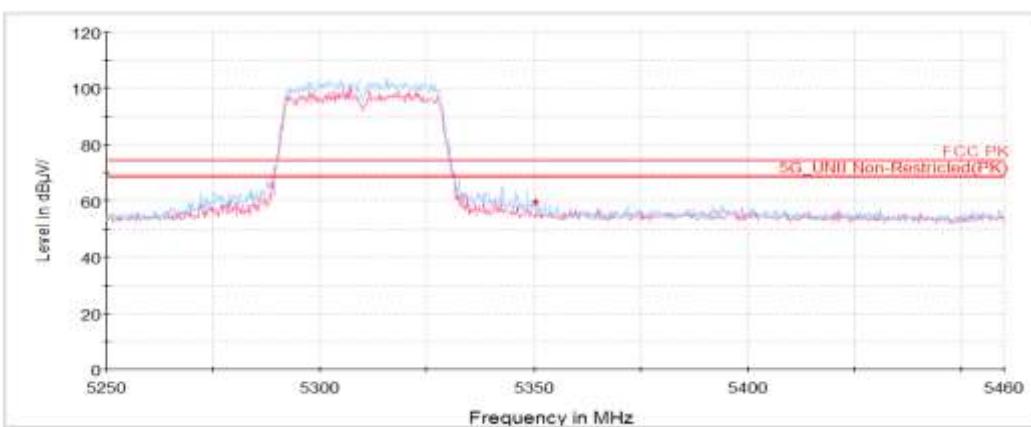
| Frequency (MHz) | Pol. | Reading (dB(μ V)) | Antenna Factor (dB) | Amp. + Cable (dB) | DCCF | Result (dB(μ V/m)) | Limit (dB(μ V/m)) | Margin (dB) |
|--|------|---------------------------|---------------------------|----------------------|------|----------------------------|---------------------------|----------------|
| Peak data | | | | | | | | |
| 10 537.22 | H | 77.01 | 37.42 | -49.73 | - | 64.70 | 68.20 | 3.50 |
| 15 810.69 ¹⁾ | H | 54.39 | 40.06 | -48.71 | - | 45.74 | 74.00 | 28.26 |
| Average Data | | | | | | | | |
| No spurious emissions were detected within 20 dB of the limit. | | | | | | | | |

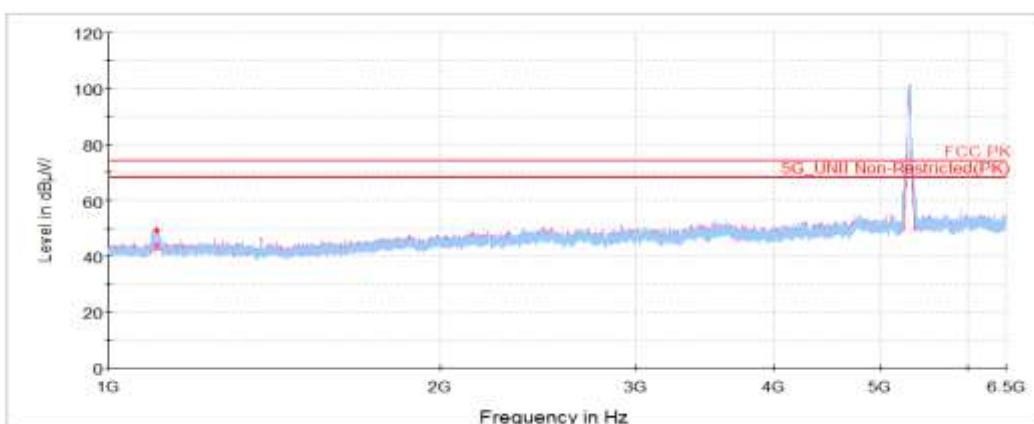
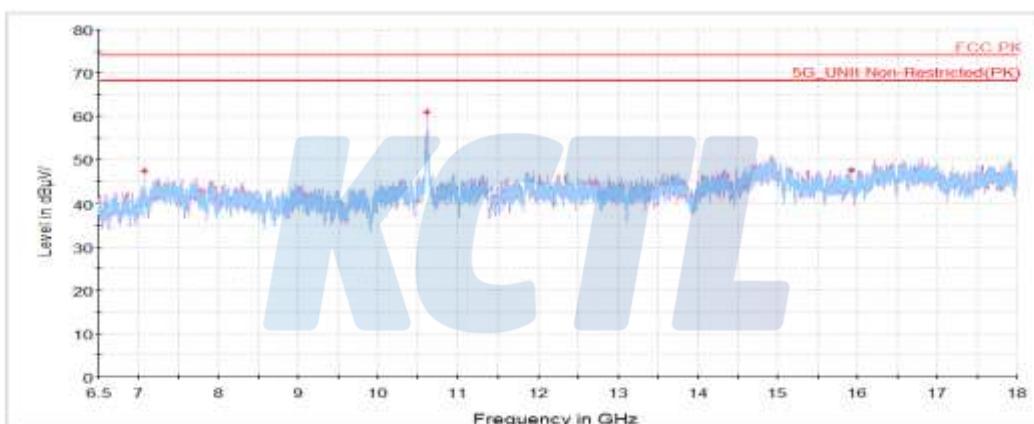
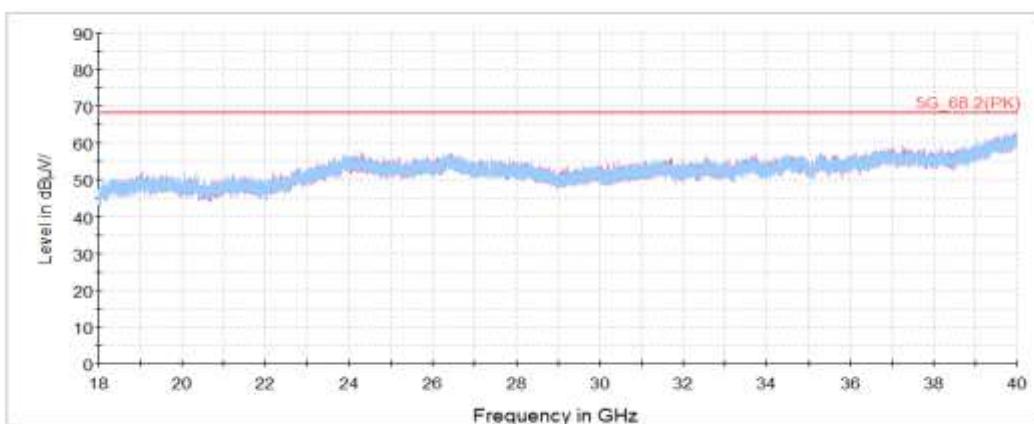


Horizontal/Vertical for 1 GHz ~ 6.5 GHz**Horizontal/Vertical for 6.5 GHz ~ 18 GHz****Horizontal/Vertical for 18 GHz ~ 40 GHz**

Highest Channel (5 310 MHz)

| Frequency | Pol. | Reading | Antenna Factor | Amp. + Cable | DCCF | Result | Limit | Margin |
|-------------------------|-------|----------------|----------------|--------------|------|------------------|------------------|--------|
| (MHz) | (V/H) | (dB(μ V)) | (dB) | (dB) | (dB) | (dB(μ V/m)) | (dB(μ V/m)) | (dB) |
| Peak data | | | | | | | | |
| 5 350.49 ¹⁾ | H | 51.57 | 34.56 | -26.84 | - | 59.29 | 74.00 | 14.71 |
| 7 079.67 | V | 64.30 | 35.40 | -52.31 | - | 47.39 | 74.00 | 26.61 |
| 10 619.88 ¹⁾ | V | 73.44 | 37.47 | -49.92 | - | 60.99 | 74.00 | 13.01 |
| 15 924.25 ¹⁾ | H | 56.26 | 40.08 | -48.77 | - | 47.57 | 74.00 | 26.43 |
| Average Data | | | | | | | | |
| 5 350.49 ¹⁾ | H | 42.25 | 34.56 | -26.84 | 0.13 | 50.10 | 54.00 | 3.90 |
| 10 619.88 ¹⁾ | V | 62.59 | 37.47 | -49.92 | 0.13 | 50.27 | 54.00 | 3.73 |

Average data (5 350.49 MHz)**Average data (10 619.88 MHz)****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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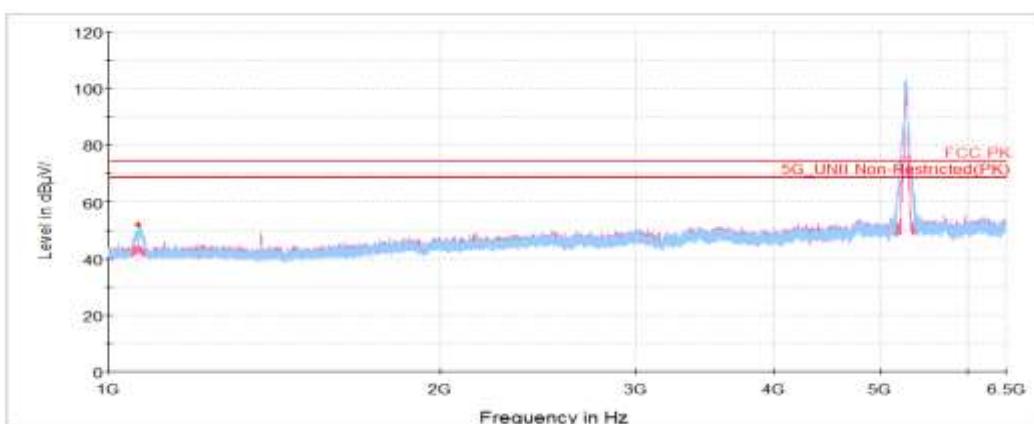
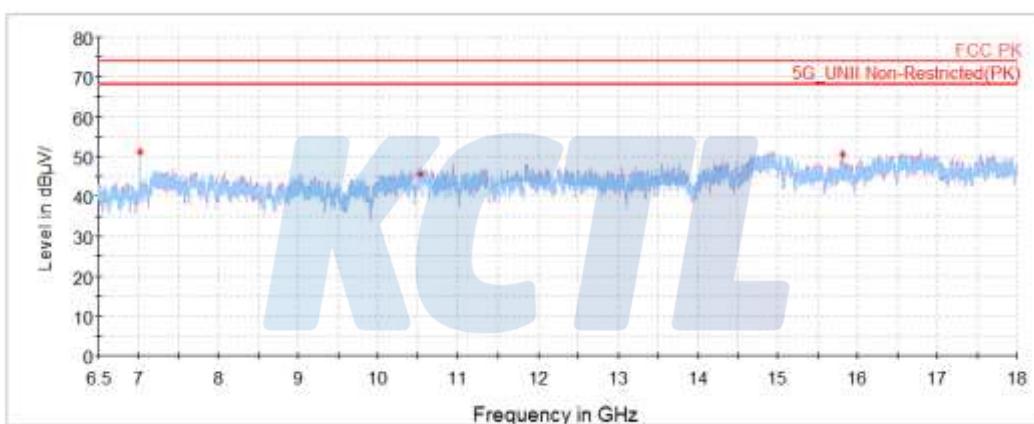
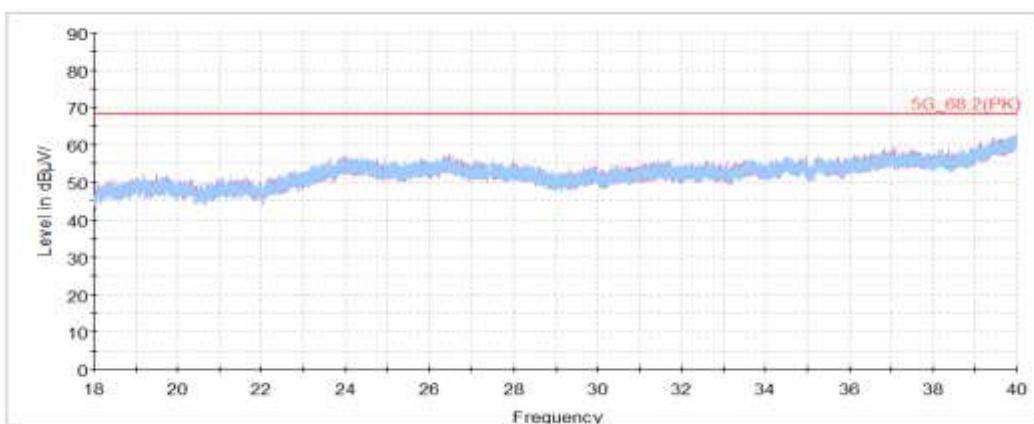
KR20-SRF0030-D

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**802.11ac VHT40 UNII 2A ANT 1****Lowest Channel (5 270 MHz)**

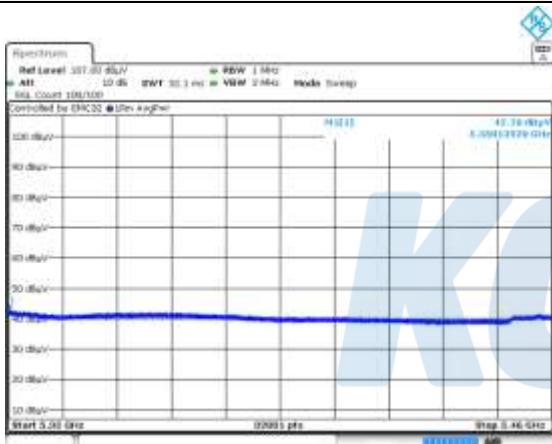
| Frequency (MHz) | Pol. | Reading (dB(μ V)) | Antenna Factor (dB) | Amp. + Cable (dB) | DCCF (dB) | Result (dB(μ V/m)) | Limit (dB(μ V/m)) | Margin (dB) |
|--|------|---------------------------|------------------------|----------------------|--------------|----------------------------|---------------------------|----------------|
| Peak data | | | | | | | | |
| 7 026.48 | H | 68.08 | 35.40 | -52.56 | - | 50.92 | 68.20 | 17.28 |
| 10 540.09 | H | 57.71 | 37.42 | -49.74 | - | 45.39 | 68.20 | 22.81 |
| 15 820.03 ¹⁾ | V | 59.21 | 40.06 | -48.72 | - | 50.55 | 74.00 | 23.45 |
| Average Data | | | | | | | | |
| No spurious emissions were detected within 20 dB of the limit. | | | | | | | | |



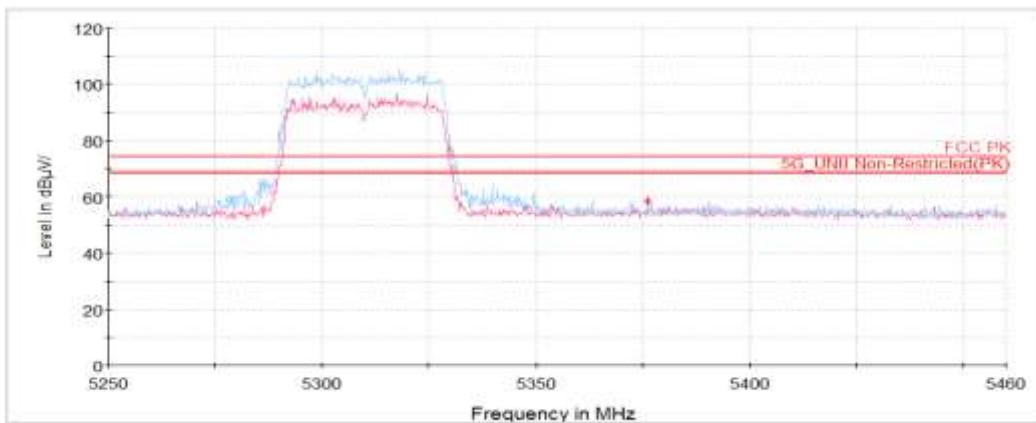
Horizontal/Vertical for 1 GHz ~ 6.5 GHz**Horizontal/Vertical for 6.5 GHz ~ 18 GHz****Horizontal/Vertical for 18 GHz ~ 40 GHz**

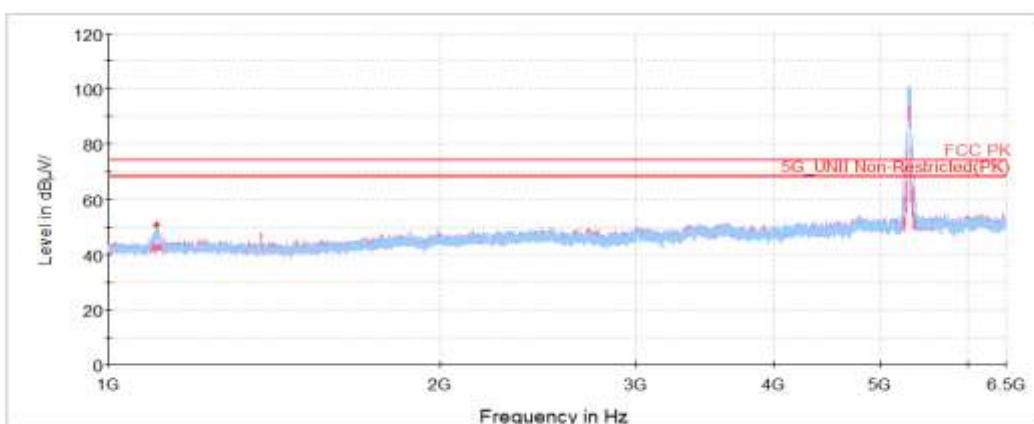
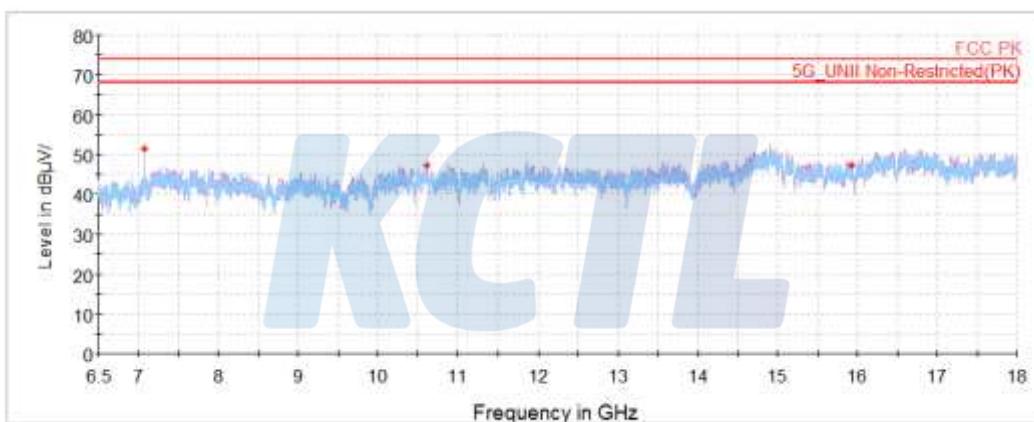
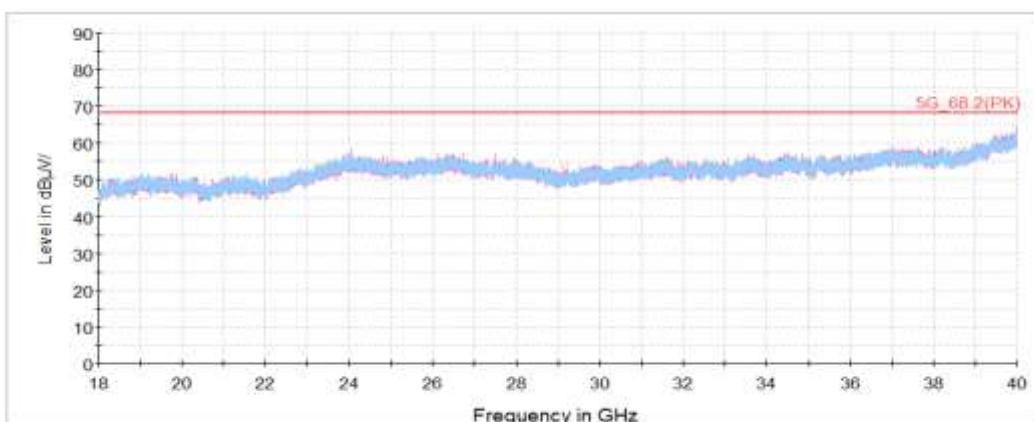
Highest Channel (5 310 MHz)

| Frequency | Pol. | Reading | Antenna Factor | Amp. + Cable | DCCF | Result | Limit | Margin |
|-------------------------|-------|----------------|----------------|--------------|------|------------------|------------------|--------|
| (MHz) | (V/H) | (dB(μ V)) | (dB) | (dB) | (dB) | (dB(μ V/m)) | (dB(μ V/m)) | (dB) |
| Peak data | | | | | | | | |
| 5 350.14 ¹⁾ | H | 50.81 | 34.56 | -26.84 | - | 58.53 | 74.00 | 15.47 |
| 7 080.03 | H | 68.35 | 35.40 | -52.31 | - | 51.44 | 68.20 | 16.76 |
| 10 618.80 ¹⁾ | V | 59.52 | 37.47 | -49.91 | - | 47.08 | 74.00 | 26.92 |
| 15 930.36 ¹⁾ | H | 55.98 | 40.09 | -48.78 | - | 47.29 | 74.00 | 26.71 |
| Average Data | | | | | | | | |
| 5 350.14 ¹⁾ | H | 42.70 | 34.56 | -26.84 | 0.13 | 50.55 | 54.00 | 3.45 |

Average data (5 350.14 MHz)

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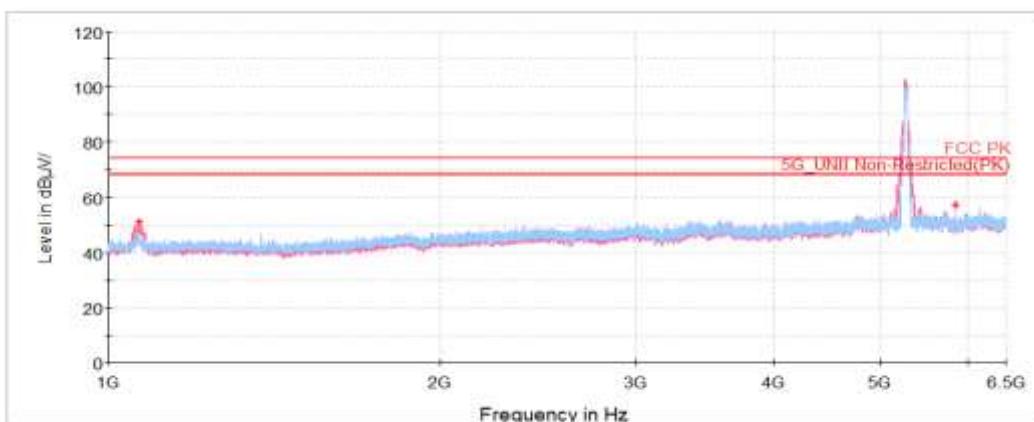
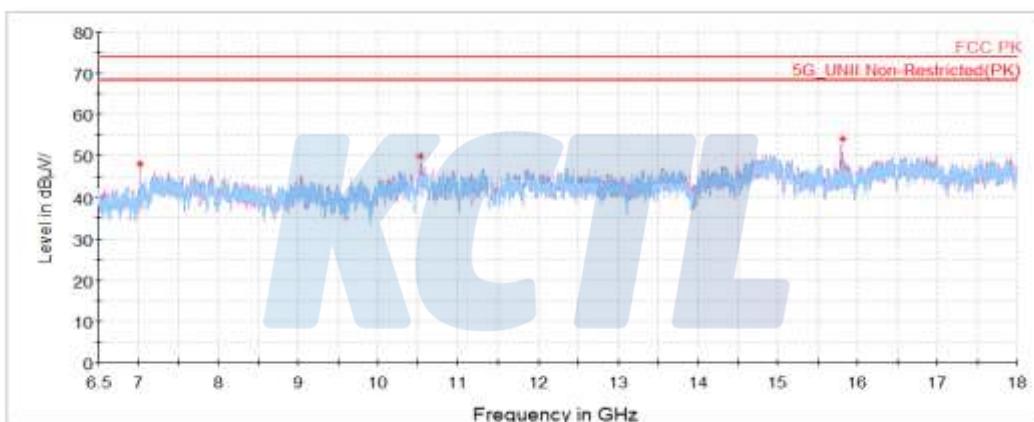
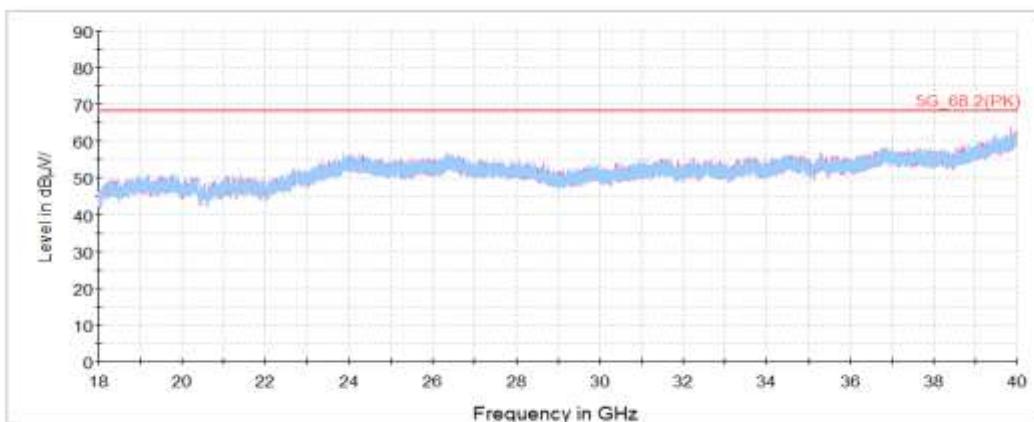
Horizontal/Vertical for Band-edge

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

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

| Frequency (MHz) | Pol. | Reading (dB(μ V)) | Antenna Factor (dB) | Amp. + Cable (dB) | DCCF (dB) | Result (dB(μ V/m)) | Limit (dB(μ V/m)) | Margin (dB) |
|--|------|---------------------------|---------------------------|----------------------|--------------|----------------------------|---------------------------|----------------|
| Peak data | | | | | | | | |
| 5 855.81 | V | 66.79 | 35.23 | -44.90 | - | 57.12 | 68.20 | 11.08 |
| 7 026.48 | V | 65.20 | 35.40 | -52.56 | - | 48.04 | 68.20 | 20.16 |
| 10 536.86 | V | 62.15 | 37.42 | -49.73 | - | 49.84 | 68.20 | 18.36 |
| 15 795.18 ¹⁾ | V | 62.64 | 40.06 | -48.71 | - | 53.99 | 74.00 | 20.01 |
| Average Data | | | | | | | | |
| 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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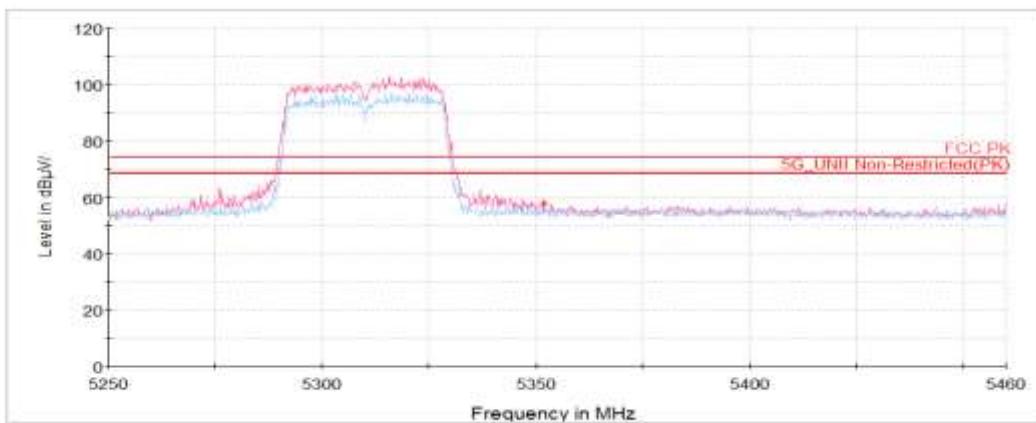
Page (654) of (1046)

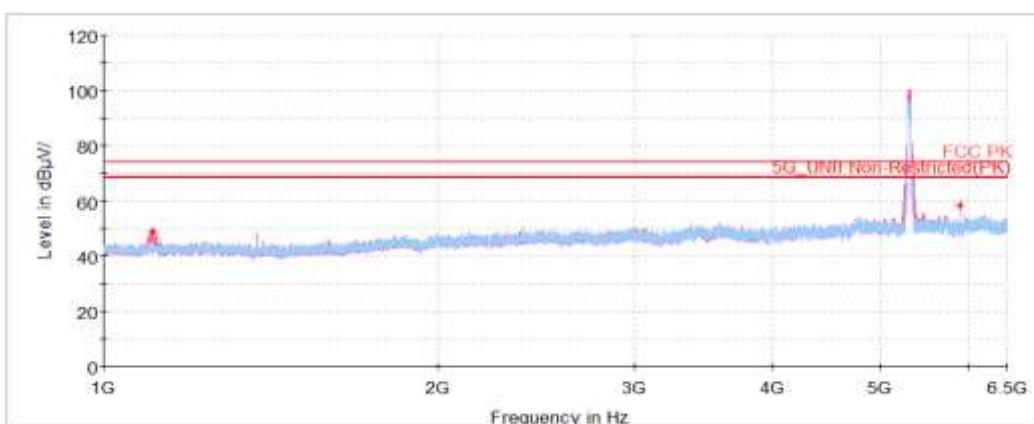
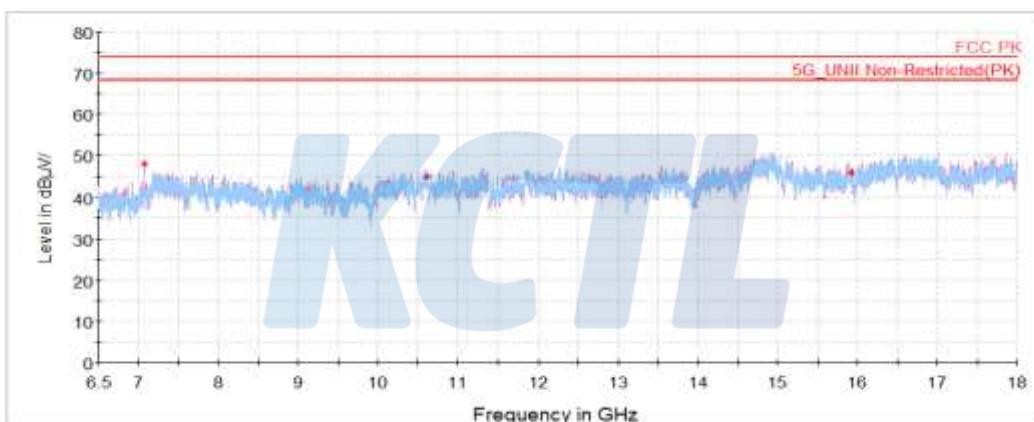
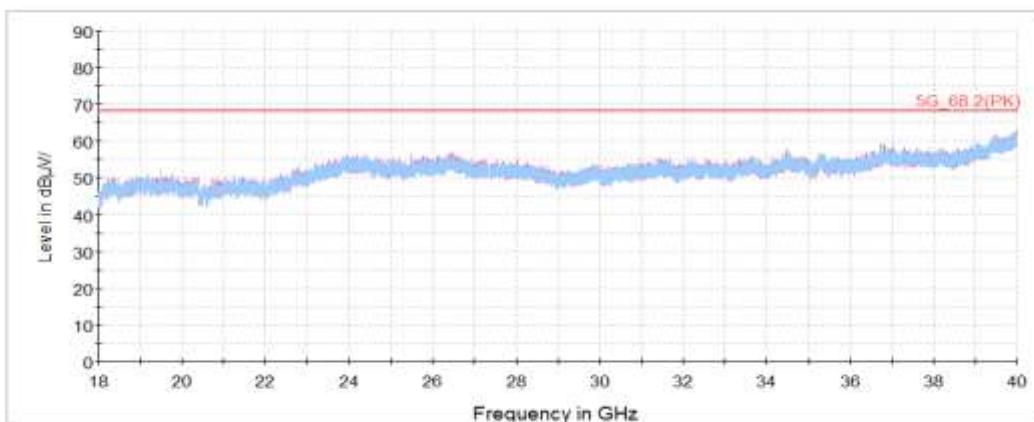
KCTL**Highest Channel (5 310 MHz)**

| Frequency | Pol. | Reading | Antenna Factor | Amp. + Cable | DCCF | Result | Limit | Margin |
|-------------------------|-------|----------------|----------------|--------------|------|------------------|------------------|--------|
| (MHz) | (V/H) | (dB(μ V)) | (dB) | (dB) | (dB) | (dB(μ V/m)) | (dB(μ V/m)) | (dB) |
| Peak data | | | | | | | | |
| 5 350.32 ¹⁾ | V | 50.05 | 34.56 | -26.84 | - | 57.77 | 74.00 | 16.23 |
| 5 899.98 | V | 67.47 | 35.28 | -44.49 | - | 58.26 | 68.20 | 9.94 |
| 10 620.95 ¹⁾ | H | 57.35 | 37.47 | -49.92 | - | 44.90 | 74.00 | 29.10 |
| 15 932.16 ¹⁾ | H | 54.63 | 40.09 | -48.78 | - | 45.94 | 74.00 | 28.06 |
| Average Data | | | | | | | | |
| 5 350.32 ¹⁾ | V | 42.80 | 34.56 | -26.84 | 0.13 | 50.65 | 54.00 | 3.35 |

Average data (5 350.32 MHz)

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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**

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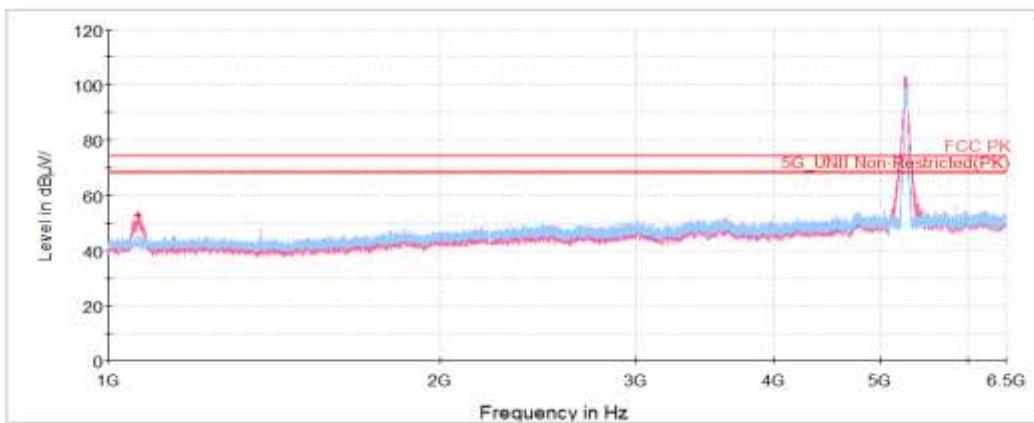
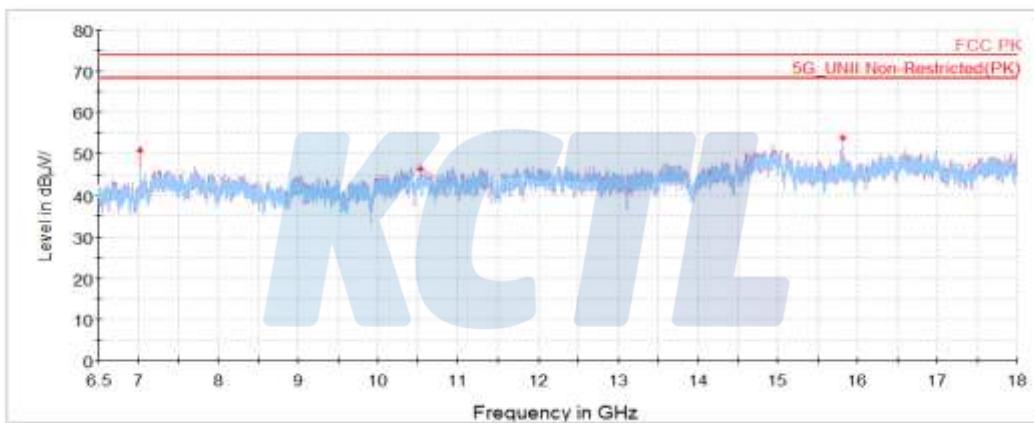
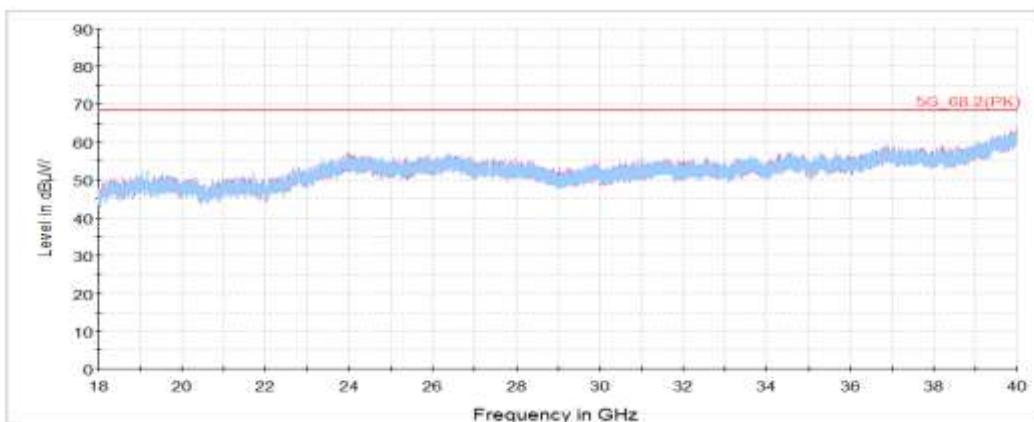
KR20-SRF0030-D

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**802.11ac VHT40 UNII 2A ANT 3****Lowest Channel (5 270 MHz)**

| Frequency (MHz) | Pol. | Reading (dB(µV)) | Antenna Factor (dB) | Amp. + Cable (dB) | DCCF (dB) | Result (dB(µV/m)) | Limit (dB(µV/m)) | Margin (dB) |
|--|------|---------------------|------------------------|----------------------|--------------|----------------------|---------------------|----------------|
| Peak data | | | | | | | | |
| 7 026.48 | V | 67.80 | 35.40 | -52.56 | - | 50.64 | 68.20 | 17.56 |
| 10 538.66 | V | 58.65 | 37.42 | -49.74 | - | 46.33 | 68.20 | 21.87 |
| 15 803.64 ¹⁾ | H | 62.34 | 40.06 | -48.71 | - | 53.69 | 74.00 | 20.31 |
| Average Data | | | | | | | | |
| 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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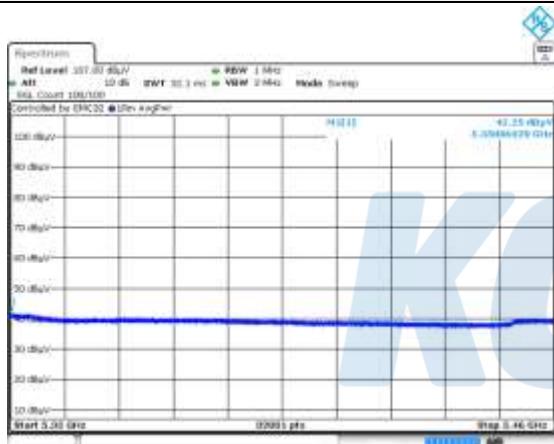
Report No.:

KR20-SRF0030-D

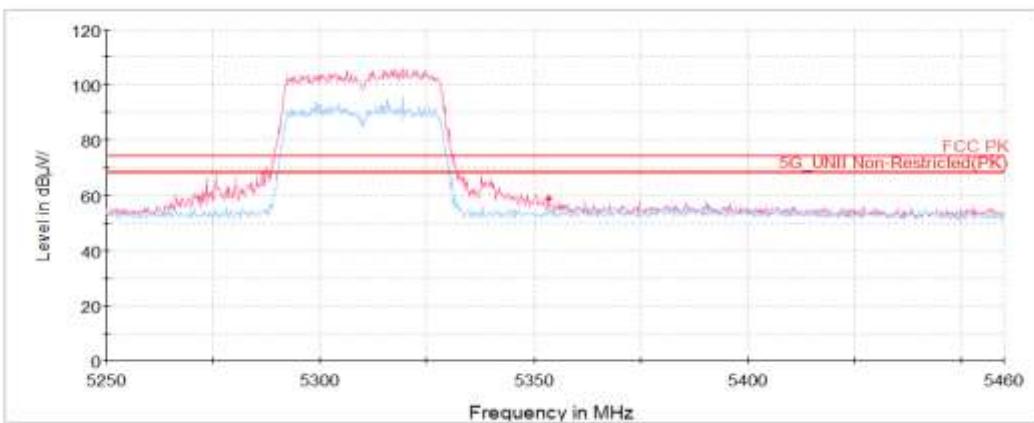
Page (658) of (1046)

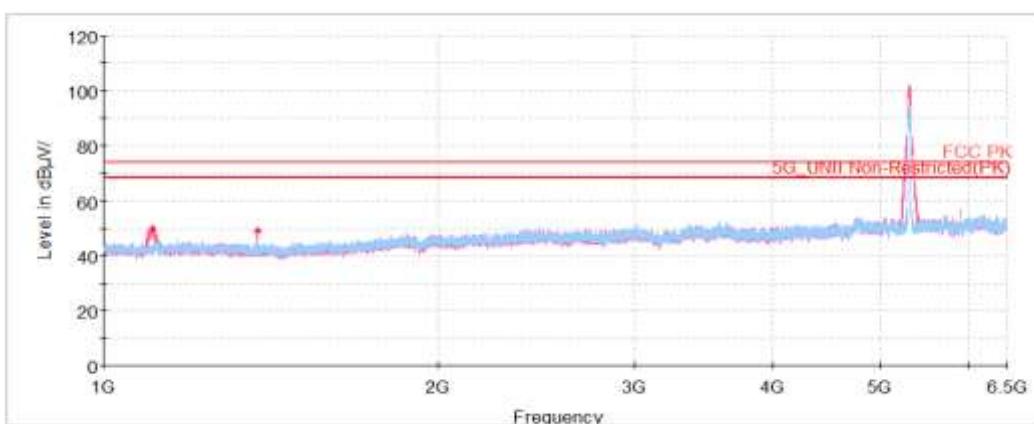
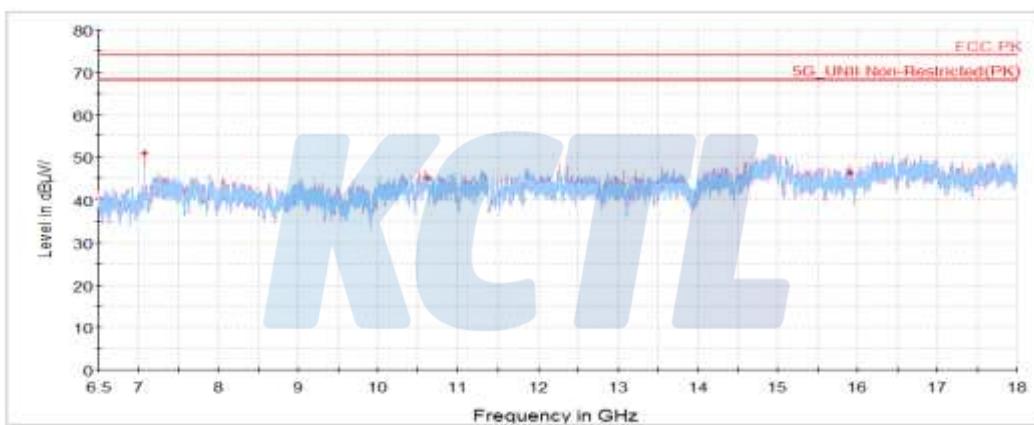
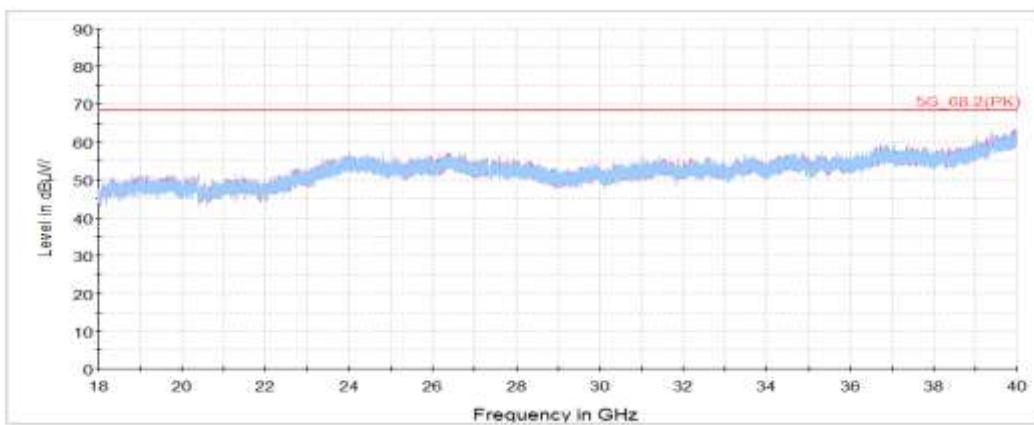
KCTL**Highest Channel (5 310 MHz)**

| Frequency | Pol. | Reading | Antenna Factor | Amp. + Cable | DCCF | Result | Limit | Margin |
|-------------------------|-------|----------------|----------------|--------------|------|------------------|------------------|--------|
| (MHz) | (V/H) | (dB(μ V)) | (dB) | (dB) | (dB) | (dB(μ V/m)) | (dB(μ V/m)) | (dB) |
| Peak data | | | | | | | | |
| 5 350.06 ¹⁾ | V | 50.72 | 34.56 | -26.84 | - | 58.44 | 74.00 | 15.56 |
| 7 080.03 | V | 67.85 | 35.40 | -52.31 | - | 50.94 | 68.20 | 17.26 |
| 10 626.70 ¹⁾ | V | 57.50 | 37.48 | -49.93 | - | 45.05 | 74.00 | 28.95 |
| 15 915.63 ¹⁾ | H | 54.98 | 40.08 | -48.77 | - | 46.29 | 74.00 | 27.71 |
| Average Data | | | | | | | | |
| 5 350.06 ¹⁾ | V | 42.25 | 34.56 | -26.84 | 0.13 | 50.10 | 54.00 | 3.90 |

Average data (5 350.06 MHz)

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**

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

Report No.:

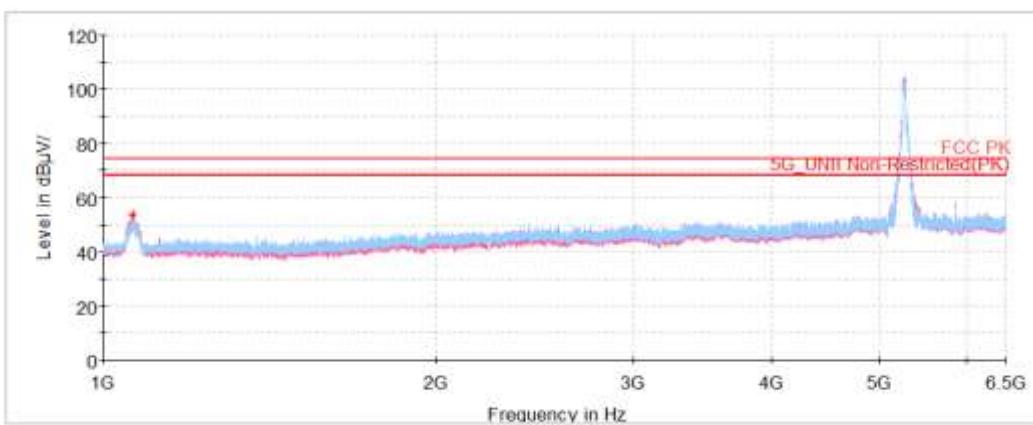
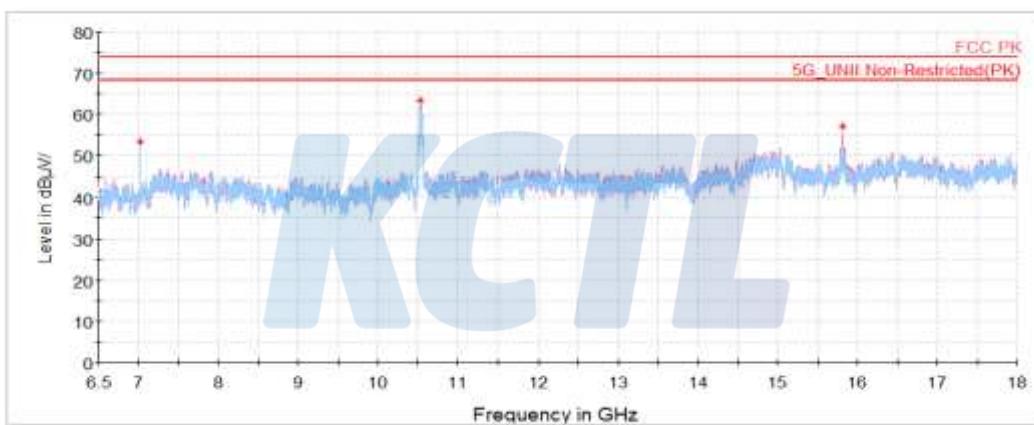
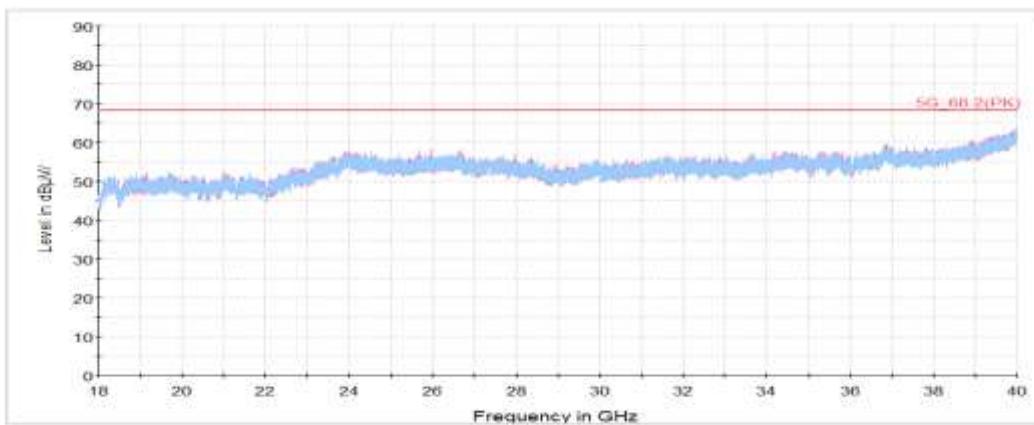
KR20-SRF0030-D

Page (660) of (1046)

**802.11ac VHT40 UNII 2A 4TX MIMO****Lowest Channel (5 270 MHz)**

| Frequency (MHz) | Pol. | Reading (dB(μ N)) | Antenna Factor (dB) | Amp. + Cable (dB) | DCCF (dB) | Result (dB(μ N/m)) | Limit (dB(μ N/m)) | Margin (dB) |
|--|------|---------------------------|------------------------|----------------------|--------------|----------------------------|---------------------------|----------------|
| Peak data | | | | | | | | |
| 7 027.20 | H | 69.69 | 35.40 | -52.56 | - | 52.53 | 68.20 | 15.67 |
| 10 540.45 | V | 76.85 | 37.42 | -49.74 | - | 64.53 | 68.20 | 3.67 |
| 15 818.76 ¹⁾ | V | 60.03 | 40.06 | -48.72 | - | 51.37 | 74.00 | 22.63 |
| Average Data | | | | | | | | |
| 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

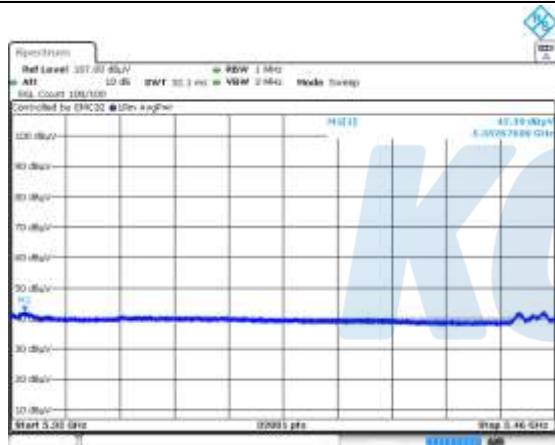
Report No.:

KR20-SRF0030-D

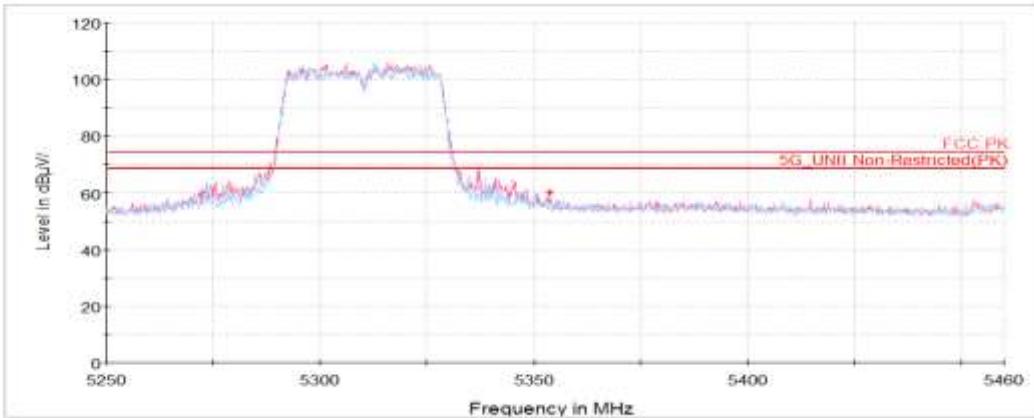
Page (662) of (1046)

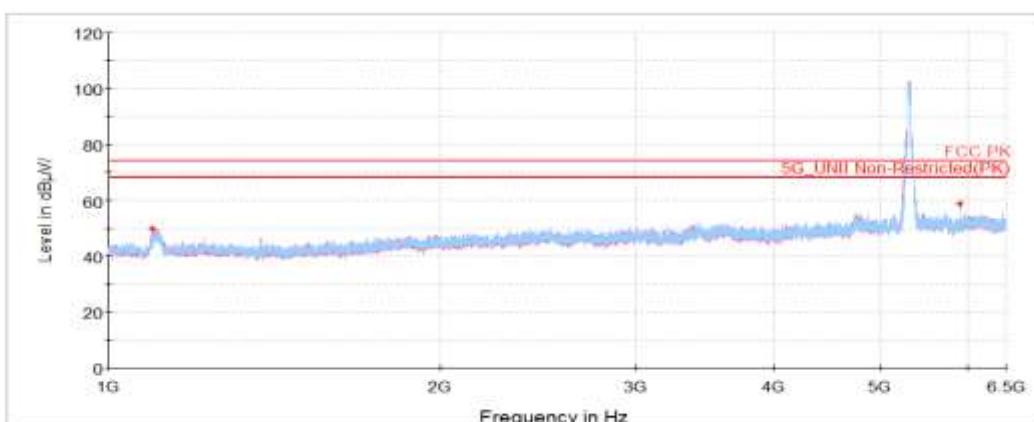
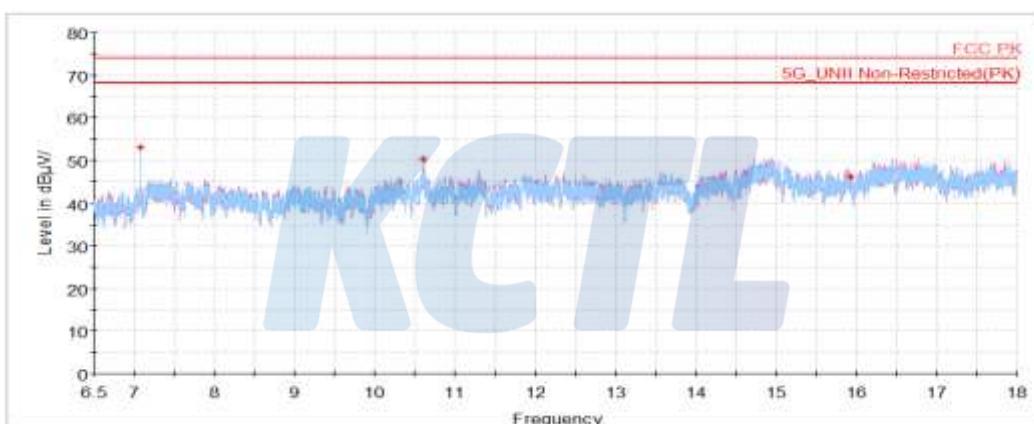
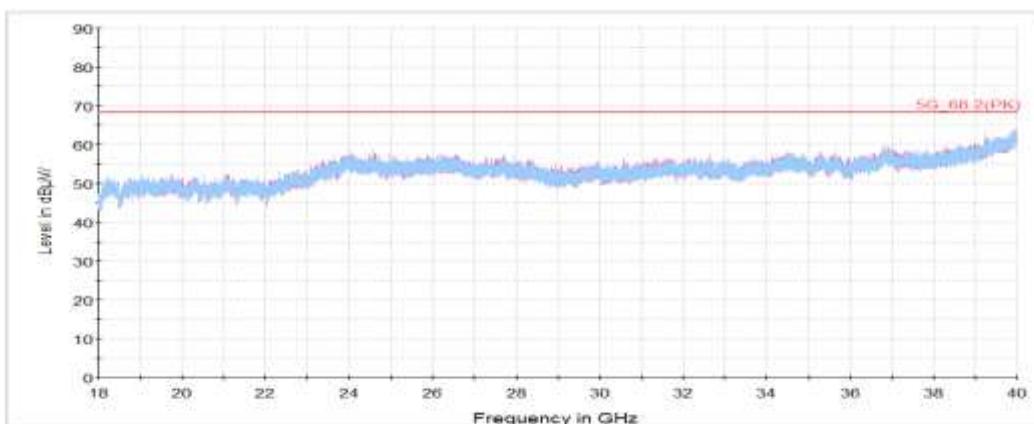
KCTL**Highest Channel (5 310 MHz)**

| Frequency | Pol. | Reading | Antenna Factor | Amp. + Cable | DCCF | Result | Limit | Margin |
|-------------------------|-------|----------------|----------------|--------------|------|------------------|------------------|--------|
| (MHz) | (V/H) | (dB(μ V)) | (dB) | (dB) | (dB) | (dB(μ V/m)) | (dB(μ V/m)) | (dB) |
| Peak data | | | | | | | | |
| 5 352.67 ¹⁾ | V | 52.01 | 34.56 | -26.84 | - | 59.73 | 74.00 | 14.27 |
| 5 900.33 | V | 67.58 | 35.28 | -44.49 | - | 58.37 | 68.20 | 9.83 |
| 7 079.67 | H | 69.97 | 35.40 | -52.31 | - | 53.06 | 68.20 | 15.14 |
| 10 617.00 ¹⁾ | V | 62.71 | 37.47 | -49.91 | - | 50.27 | 74.00 | 23.73 |
| 15 934.31 ¹⁾ | H | 54.80 | 40.09 | -48.78 | - | 46.11 | 74.00 | 27.89 |
| Average Data | | | | | | | | |
| 5 352.67 ¹⁾ | V | 42.39 | 34.56 | -26.84 | 0.13 | 50.24 | 54.00 | 3.76 |

Average data (5 352.67 MHz)

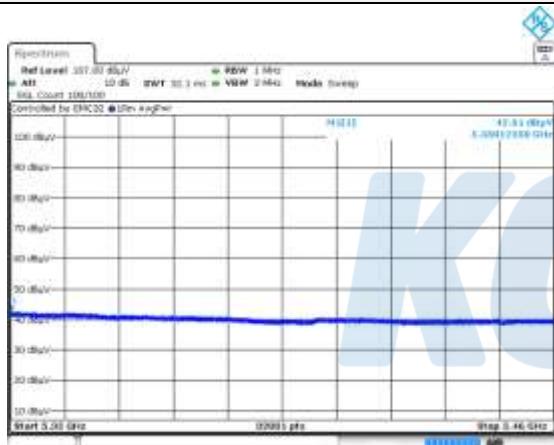
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Horizontal/Vertical for Band-edge

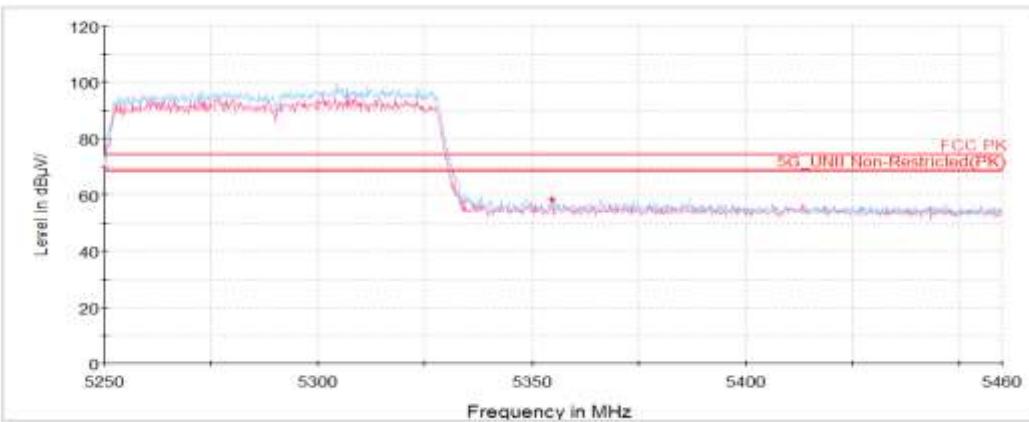
Horizontal/Vertical for 1 GHz ~ 6.5 GHz**Horizontal/Vertical for 6.5 GHz ~ 18 GHz****Horizontal/Vertical for 18 GHz ~ 40 GHz**

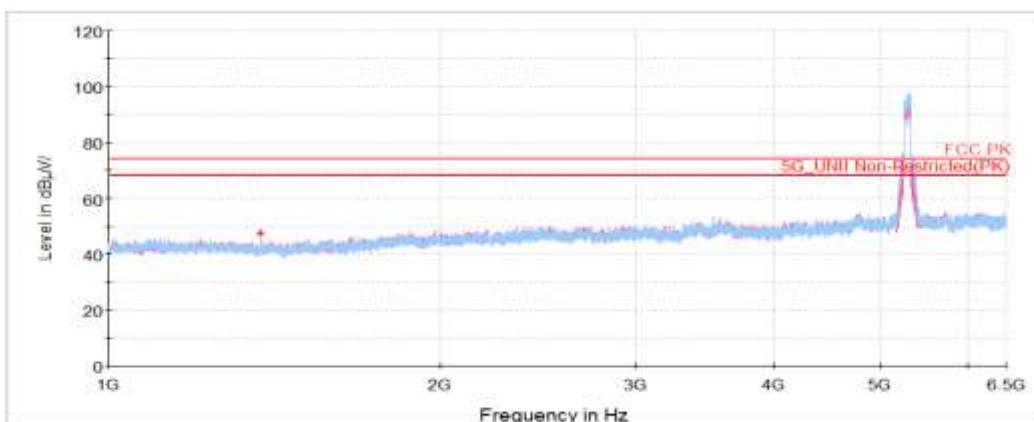
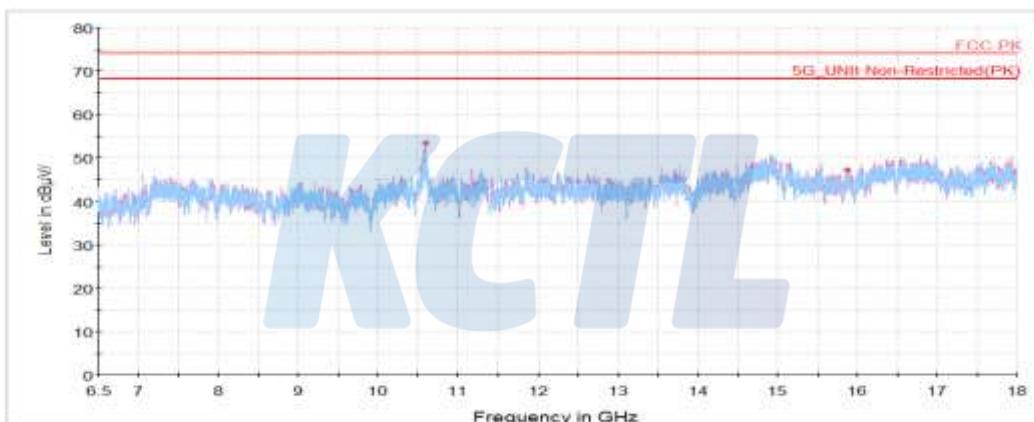
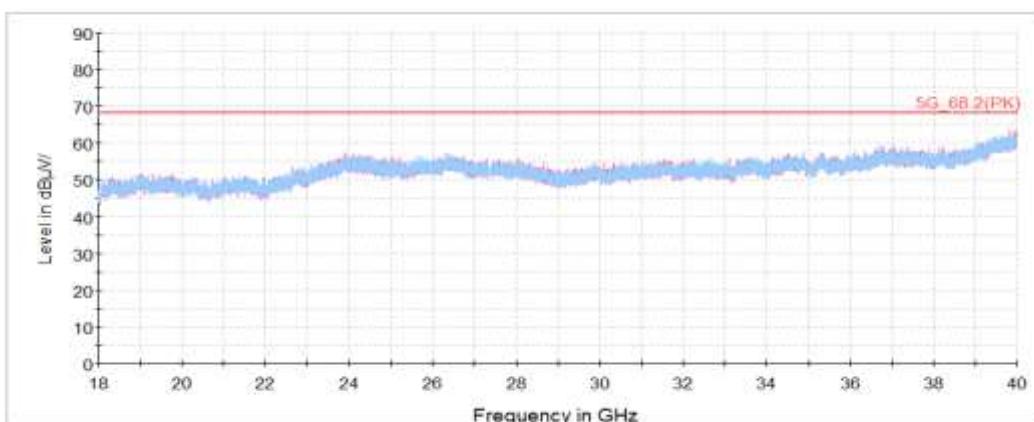
802.11ac VHT80 UNII 2A ANT 0**Middle Channel (5 290 MHz)**

| Frequency (MHz) | Pol. | Reading (dB(μ V)) | Antenna Factor (dB) | Amp. + Cable (dB) | DCCF (dB) | Result (dB(μ V/m)) | Limit (dB(μ V/m)) | Margin (dB) |
|-------------------------|------|---------------------------|------------------------|----------------------|--------------|----------------------------|---------------------------|----------------|
| Peak data | | | | | | | | |
| 5 350.13 ¹⁾ | H | 50.49 | 34.56 | -26.84 | - | 58.21 | 74.00 | 15.79 |
| 10 602.88 ¹⁾ | H | 65.78 | 37.46 | -49.88 | - | 53.36 | 74.00 | 20.64 |
| 15 870.34 ¹⁾ | H | 55.73 | 40.07 | -48.75 | - | 47.05 | 74.00 | 26.95 |
| Average Data | | | | | | | | |
| 5 350.13 ¹⁾ | H | 42.61 | 34.56 | -26.84 | 0.27 | 50.60 | 54.00 | 3.40 |

Average data (5 350.13 MHz)

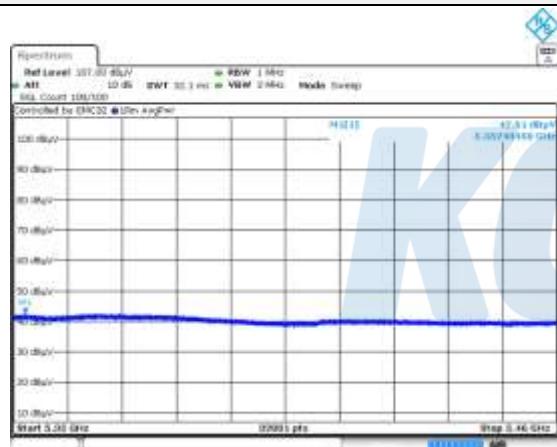
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Horizontal/Vertical for Band-edge

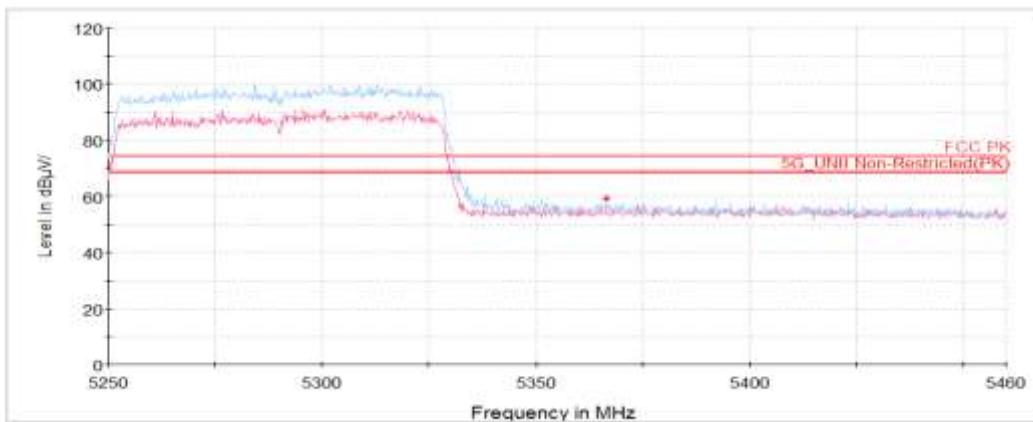
Horizontal/Vertical for 1 GHz ~ 6.5 GHz**Horizontal/Vertical for 6.5 GHz ~ 18 GHz****Horizontal/Vertical for 18 GHz ~ 40 GHz**

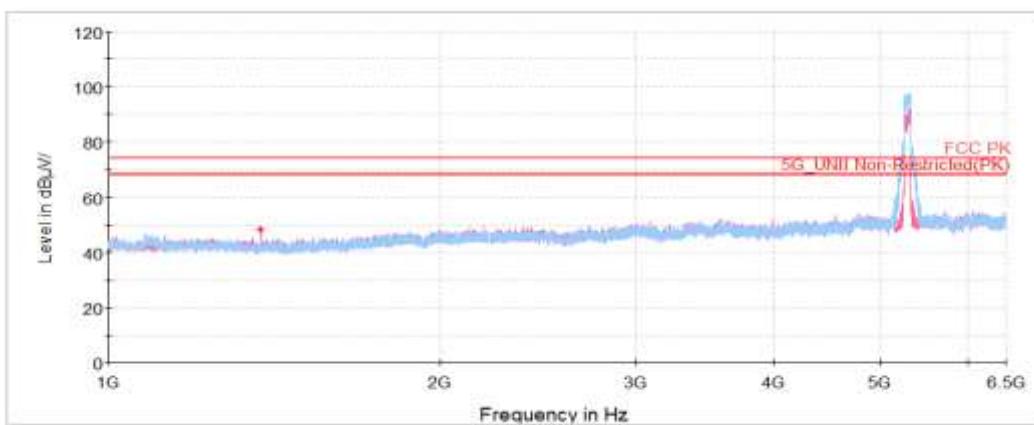
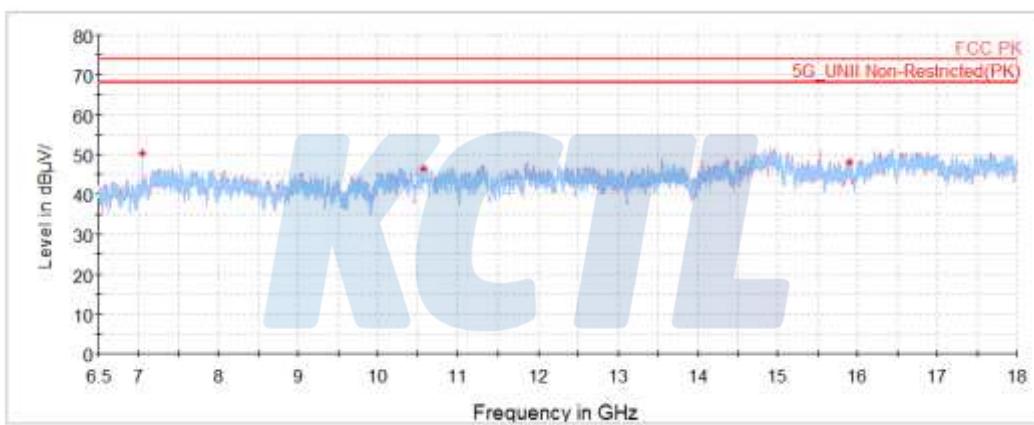
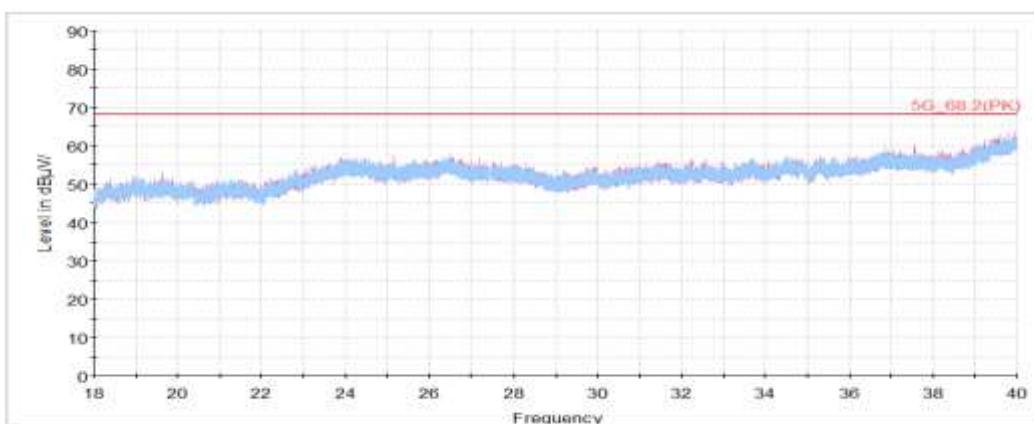
802.11ac VHT80 UNII 2A ANT 1**Middle Channel (5 290 MHz)**

| Frequency (MHz) | Pol. | Reading (dB(μ V)) | Antenna Factor (dB) | Amp. + Cable (dB) | DCCF (dB) | Result (dB(μ V/m)) | Limit (dB(μ V/m)) | Margin (dB) |
|-------------------------|------|---------------------------|------------------------|----------------------|--------------|----------------------------|---------------------------|----------------|
| Peak data | | | | | | | | |
| 5 352.40 ¹⁾ | H | 51.32 | 34.56 | -26.84 | - | 59.04 | 74.00 | 14.96 |
| 7 053.08 | H | 67.23 | 35.40 | -52.44 | - | 50.19 | 68.20 | 18.01 |
| 10 581.42 | V | 58.82 | 37.45 | -49.83 | - | 46.44 | 68.20 | 21.76 |
| 15 896.94 ¹⁾ | V | 56.62 | 40.08 | -48.76 | - | 47.94 | 74.00 | 26.06 |
| Average Data | | | | | | | | |
| 5 352.40 ¹⁾ | H | 42.61 | 34.56 | -26.84 | 0.27 | 50.60 | 54.00 | 3.40 |

Average data (5 352.40 MHz)

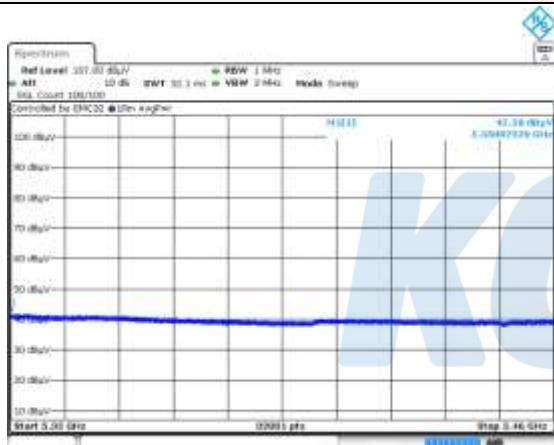
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Horizontal/Vertical for Band-edge

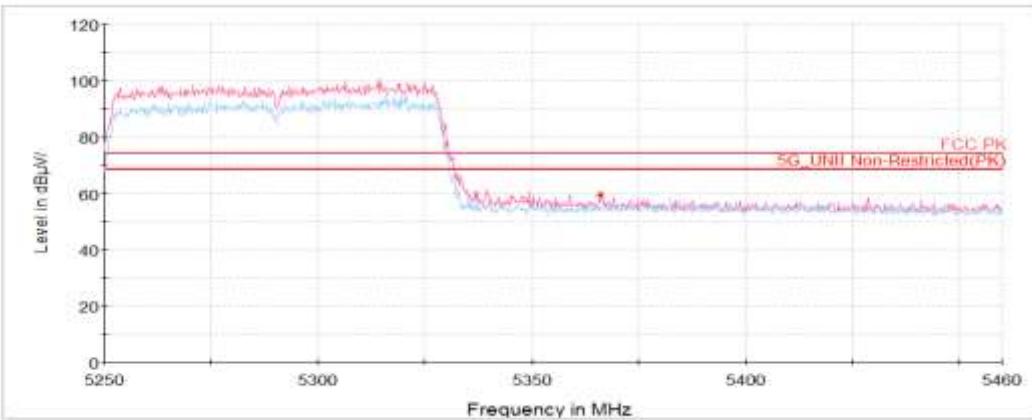
Horizontal/Vertical for 1 GHz ~ 6.5 GHz**Horizontal/Vertical for 6.5 GHz ~ 18 GHz****Horizontal/Vertical for 18 GHz ~ 40 GHz**

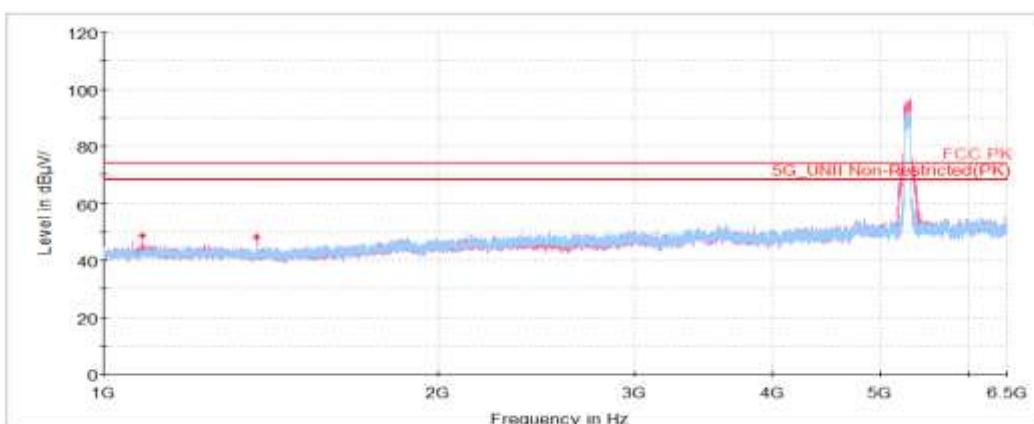
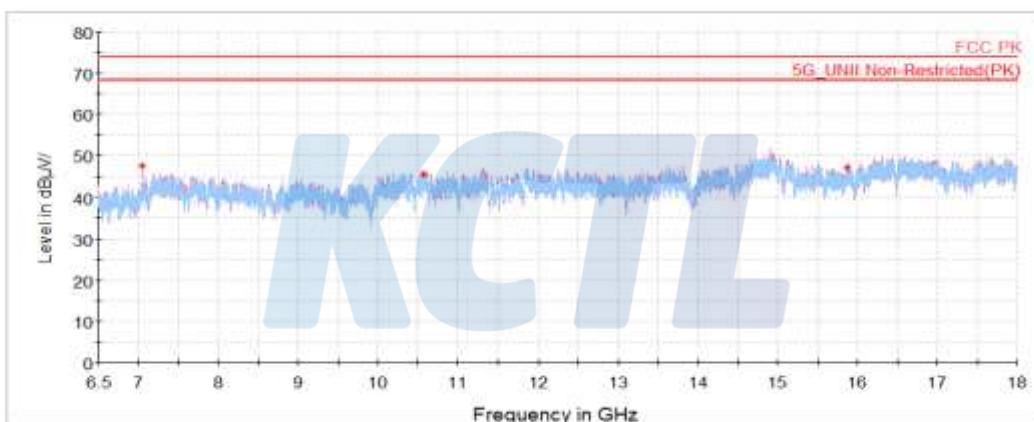
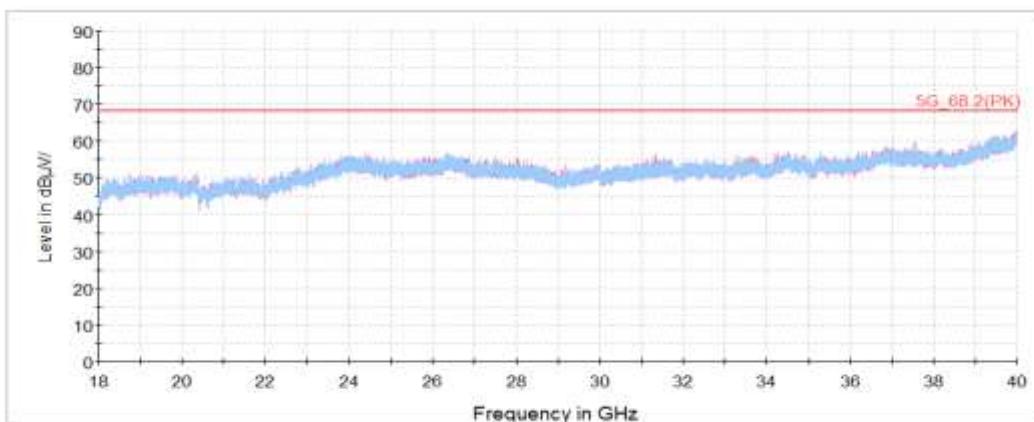
802.11ac VHT80 UNII 2A ANT 2**Middle Channel (5 290 MHz)**

| Frequency (MHz) | Pol. | Reading (dB(μ V)) | Antenna Factor (dB) | Amp. + Cable (dB) | DCCF (dB) | Result (dB(μ V/m)) | Limit (dB(μ V/m)) | Margin (dB) |
|-------------------------|------|---------------------------|------------------------|----------------------|--------------|----------------------------|---------------------------|----------------|
| Peak data | | | | | | | | |
| 5 350.03 ¹⁾ | V | 51.92 | 34.56 | -26.84 | - | 59.64 | 74.00 | 14.36 |
| 10 579.27 | V | 57.87 | 37.45 | -49.83 | - | 45.49 | 68.20 | 22.71 |
| 15 867.11 ¹⁾ | H | 55.61 | 40.07 | -48.74 | - | 46.94 | 74.00 | 27.06 |
| Average Data | | | | | | | | |
| 5 350.03 ¹⁾ | V | 42.28 | 34.56 | -26.84 | 0.27 | 50.27 | 54.00 | 3.73 |

Average data (5 350.03 MHz)

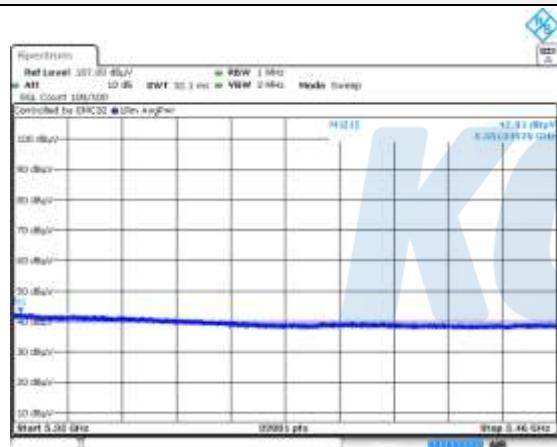
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Horizontal/Vertical for Band-edge

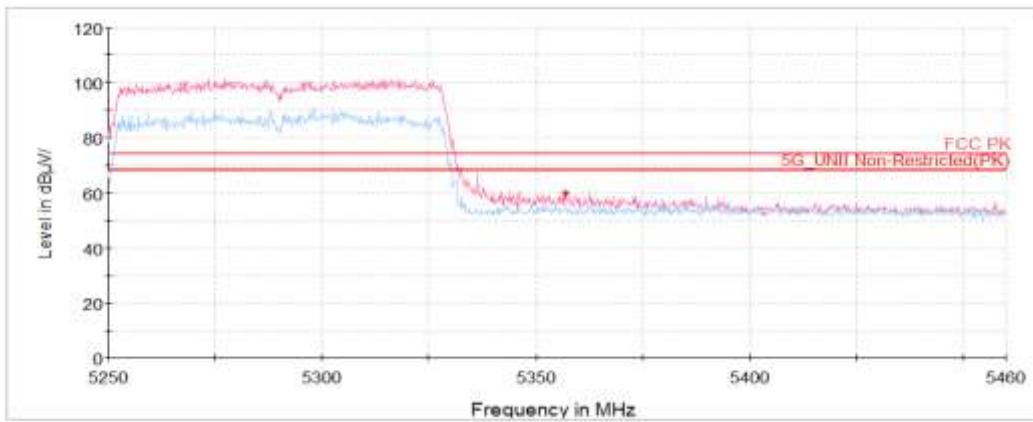
Horizontal/Vertical for 1 GHz ~ 6.5 GHz**Horizontal/Vertical for 6.5 GHz ~ 18 GHz****Horizontal/Vertical for 18 GHz ~ 40 GHz**

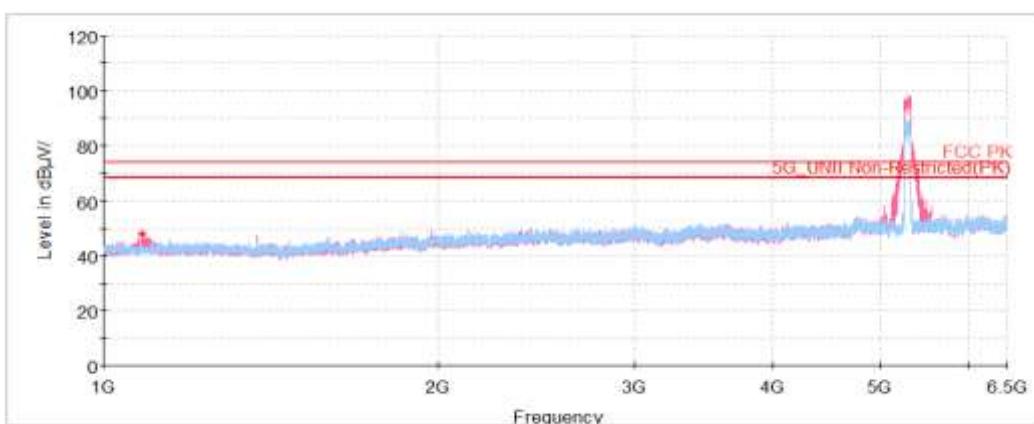
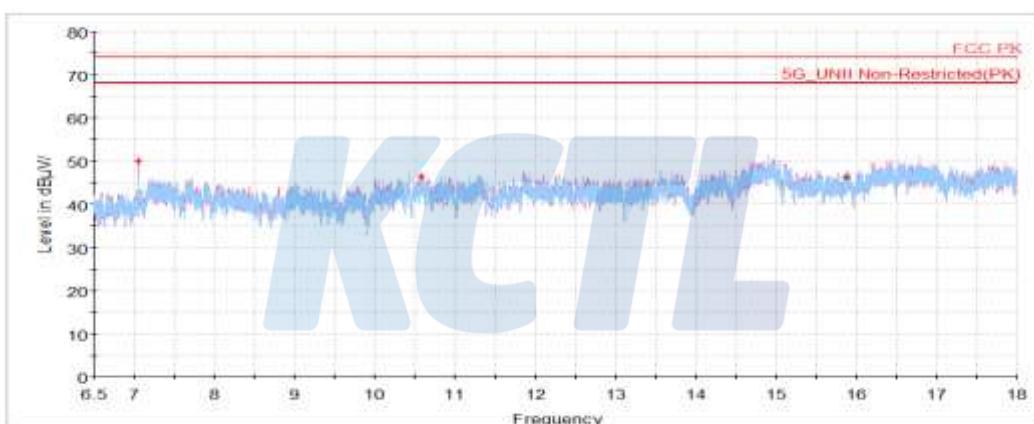
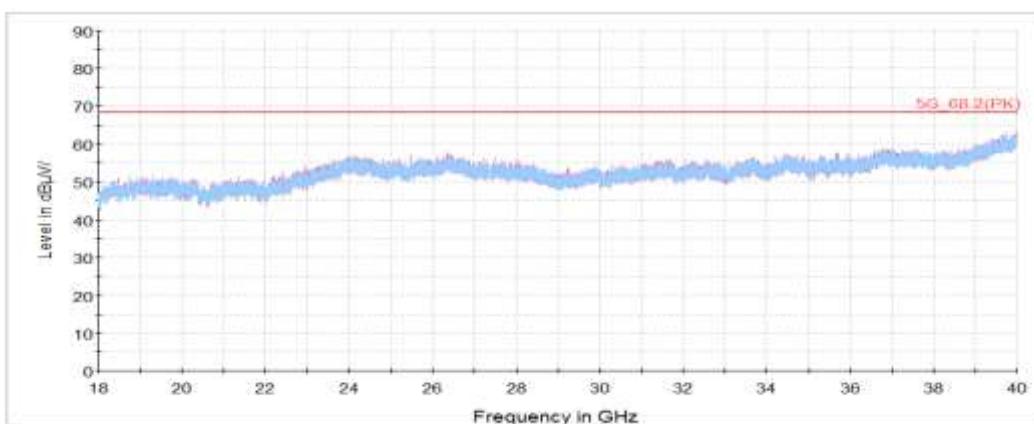
802.11ac VHT80 UNII 2A ANT 3**Middle Channel (5 290 MHz)**

| Frequency (MHz) | Pol. | Reading (dB(μ V)) | Antenna Factor (dB) | Amp. + Cable (dB) | DCCF (dB) | Result (dB(μ V/m)) | Limit (dB(μ V/m)) | Margin (dB) |
|-------------------------|------|---------------------------|------------------------|----------------------|--------------|----------------------------|---------------------------|----------------|
| Peak data | | | | | | | | |
| 5 351.35 ¹⁾ | V | 51.99 | 34.56 | -26.84 | - | 59.71 | 74.00 | 14.29 |
| 7 053.08 | V | 67.03 | 35.40 | -52.44 | - | 49.99 | 68.20 | 18.21 |
| 10 578.91 | V | 58.64 | 37.45 | -49.83 | - | 46.26 | 68.20 | 21.94 |
| 15 870.34 ¹⁾ | V | 54.79 | 40.07 | -48.75 | - | 46.11 | 74.00 | 27.89 |
| Average Data | | | | | | | | |
| 5 351.35 ¹⁾ | V | 42.81 | 34.56 | -26.84 | 0.27 | 50.80 | 54.00 | 3.20 |

Average data (5 351.35 MHz)

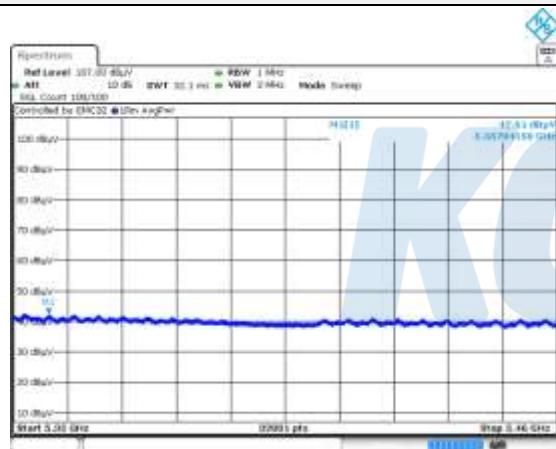
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Horizontal/Vertical for Band-edge

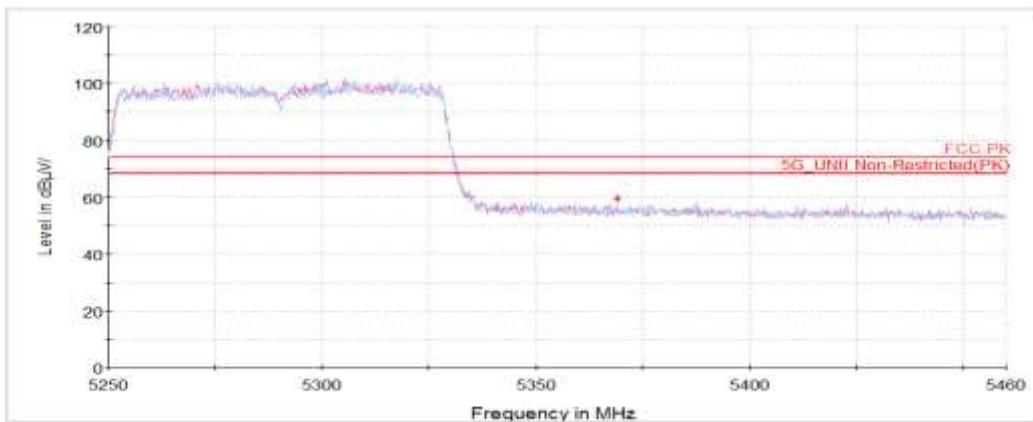
Horizontal/Vertical for 1 GHz ~ 6.5 GHz**Horizontal/Vertical for 6.5 GHz ~ 18 GHz****Horizontal/Vertical for 18 GHz ~ 40 GHz**

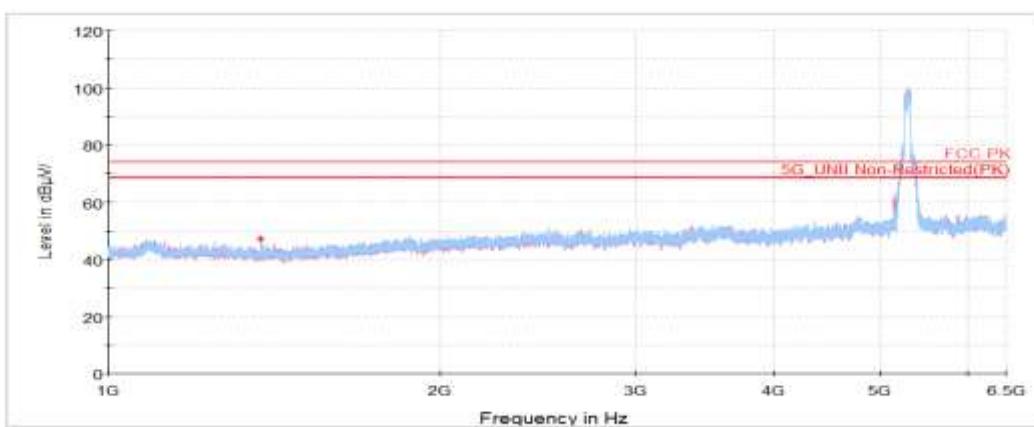
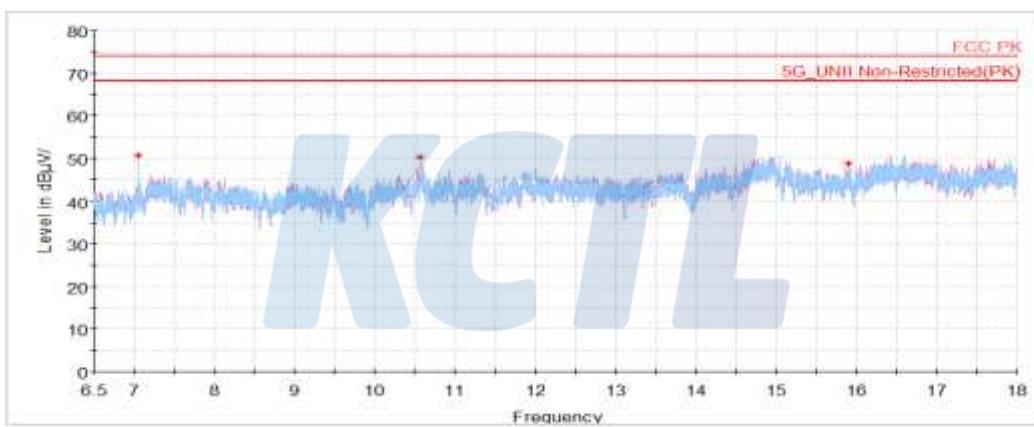
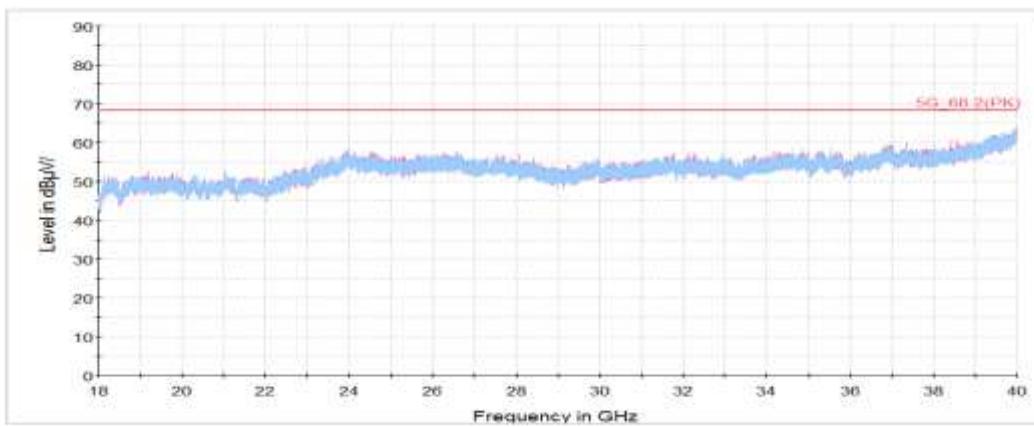
802.11ac VHT80 UNII 2A 4TX MIMO**Middle Channel (5 290 MHz)**

| Frequency (MHz) | Pol. | Reading (dB(µV)) | Antenna Factor (dB) | Amp. + Cable (dB) | DCCF | Result (dB(µV/m)) | Limit (dB(µV/m)) | Margin (dB) |
|-------------------------|------|---------------------|------------------------|----------------------|------|----------------------|---------------------|----------------|
| Peak data | | | | | | | | |
| 5 357.04 ¹⁾ | V | 51.74 | 34.57 | -26.83 | - | 59.48 | 74.00 | 14.52 |
| 7 053.80 | H | 71.15 | 35.40 | -52.43 | - | 50.62 | 68.20 | 17.58 |
| 10 576.75 | V | 74.38 | 37.45 | -49.82 | - | 50.26 | 68.20 | 17.94 |
| 15 899.09 ¹⁾ | H | 67.87 | 40.08 | -48.76 | - | 48.63 | 74.00 | 25.37 |
| Average Data | | | | | | | | |
| 5 357.04 ¹⁾ | V | 42.61 | 34.57 | -26.83 | 0.27 | 50.62 | 54.00 | 3.38 |

Average data (5 357.04 MHz)

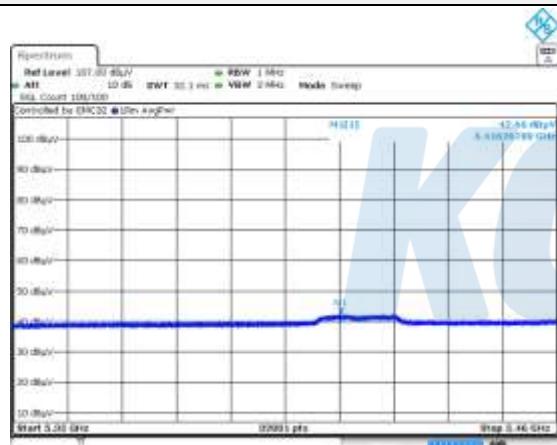
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Horizontal/Vertical for Band-edge

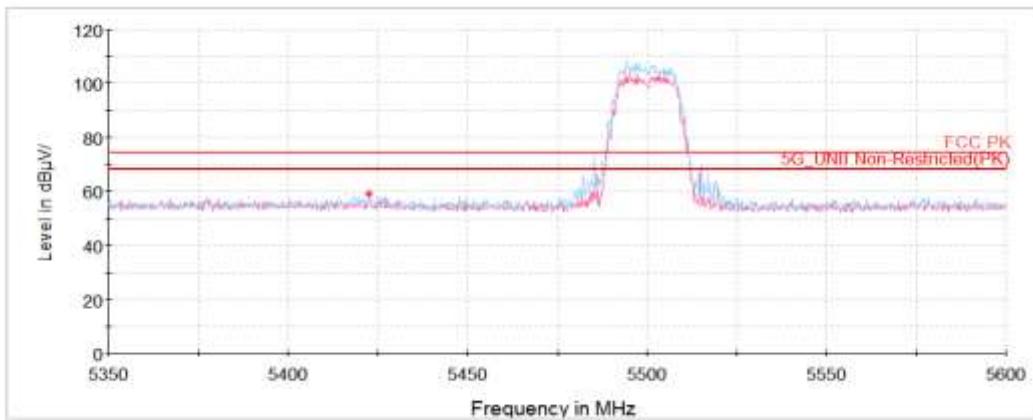
Horizontal/Vertical for 1 GHz ~ 6.5 GHz**Horizontal/Vertical for 6.5 GHz ~ 18 GHz****Horizontal/Vertical for 18 GHz ~ 40 GHz**

802.11a UNII 2C ANT 0**Lowest Channel (5 500 MHz)**

| Frequency (MHz) | Pol. | Reading (dB(μ V)) | Antenna Factor (dB) | Amp. + Cable (dB) | DCCF (dB) | Result (dB(μ V/m)) | Limit (dB(μ V/m)) | Margin (dB) |
|-------------------------|------|---------------------------|------------------------|----------------------|--------------|----------------------------|---------------------------|----------------|
| Peak data | | | | | | | | |
| 5 416.27 ¹⁾ | H | 52.11 | 34.67 | -26.89 | - | 59.89 | 74.00 | 14.11 |
| 7 333.03 ¹⁾ | H | 65.63 | 35.40 | -51.13 | - | 49.90 | 74.00 | 24.10 |
| 10 998.45 ¹⁾ | H | 66.73 | 37.70 | -50.75 | - | 53.68 | 74.00 | 20.32 |
| 16 504.28 ¹⁾ | V | 53.31 | 41.50 | -46.76 | - | 48.05 | 68.20 | 20.15 |
| Average Data | | | | | | | | |
| 5 416.27 ¹⁾ | H | 42.66 | 34.67 | -26.89 | 0.22 | 50.66 | 54.00 | 3.34 |

Average data (5 416.27 MHz)

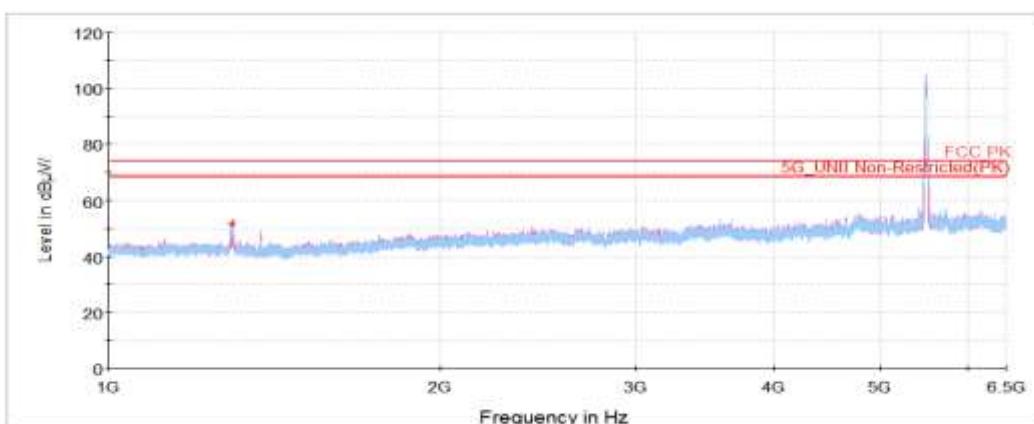
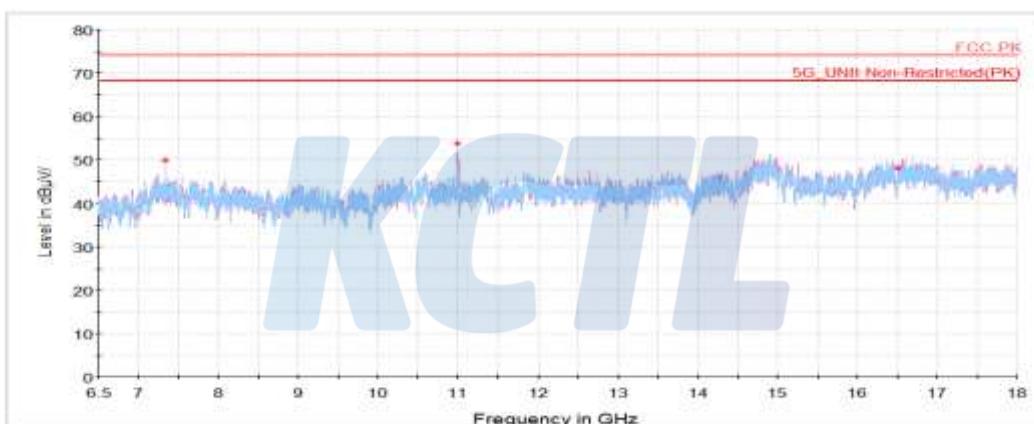
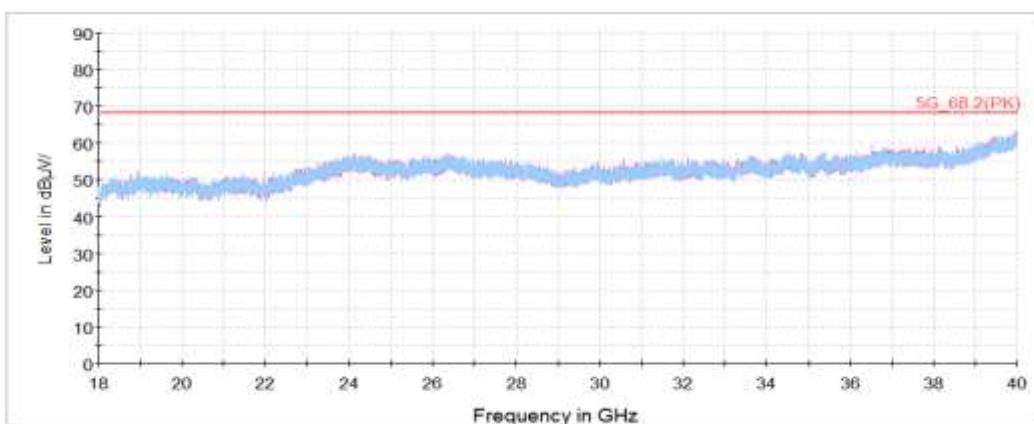
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Horizontal/Vertical for Band-edge

KCTL Inc.

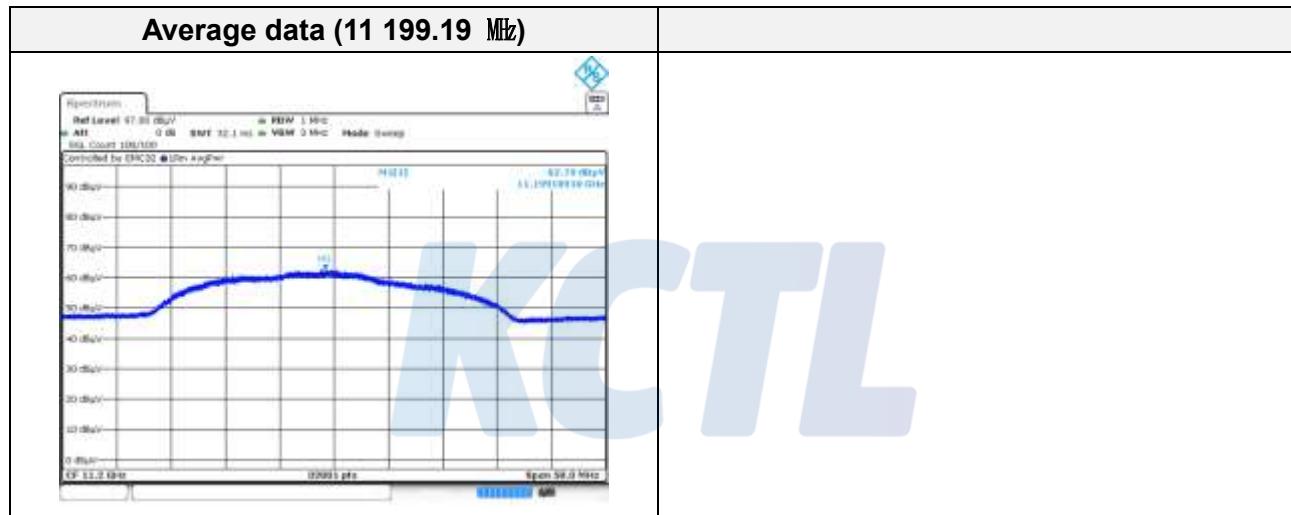
65, Sinwon-ro, Yeongtong-gu,
Suwon-si, Gyeonggi-do, 16677, Korea
TEL: 82-31-285-0894 FAX: 82-505-299-8311
www.kctl.co.kr

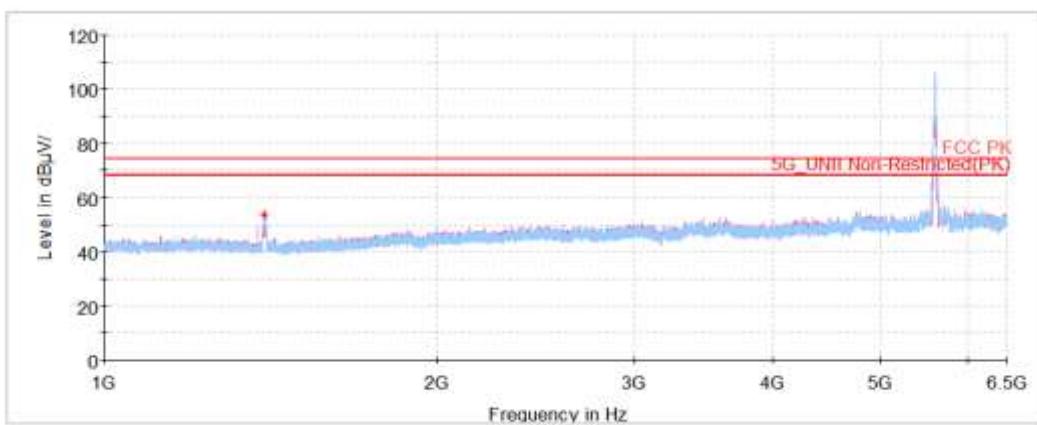
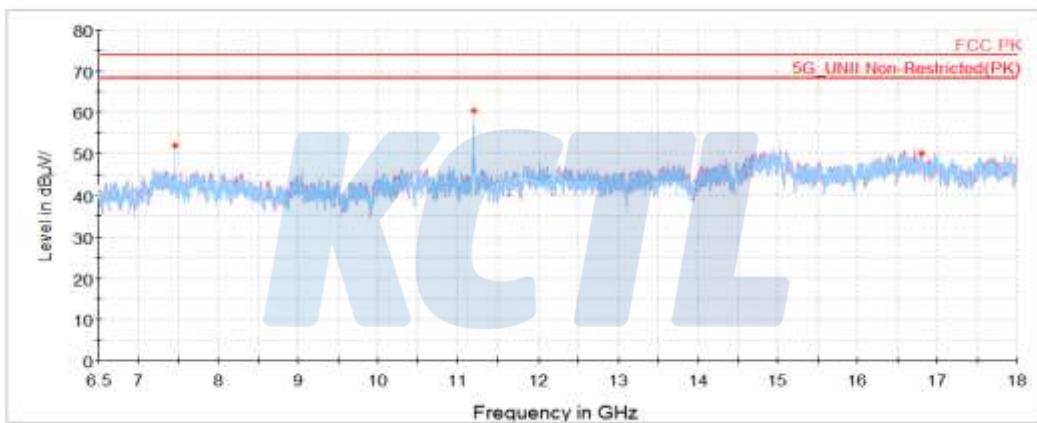
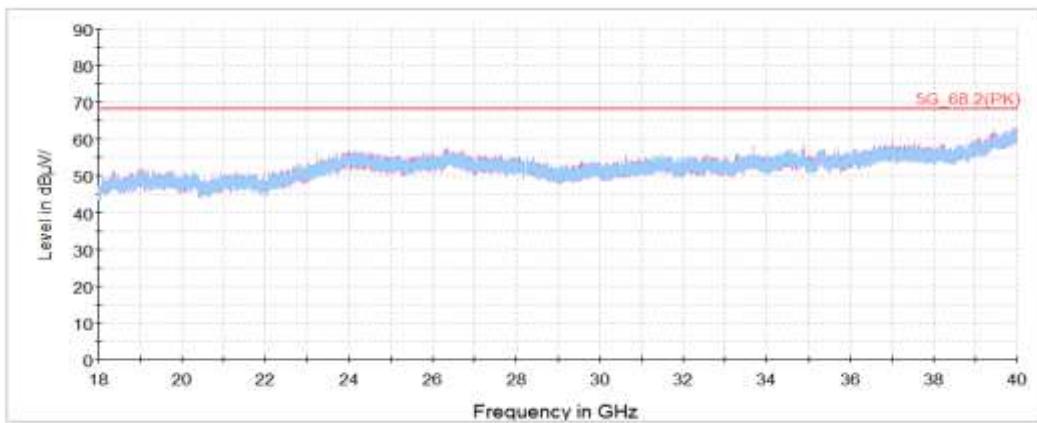
Report No.:
KR20-SRF0030-D
Page (675) of (1046)

**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 (5 600 MHz)

| Frequency (MHz) | Pol. | Reading (dB(μ V)) | Antenna Factor (dB) | Amp. + Cable (dB) | DCCF (dB) | Result (dB(μ V/m)) | Limit (dB(μ V/m)) | Margin (dB) |
|-------------------------|------|---------------------------|------------------------|----------------------|--------------|----------------------------|---------------------------|----------------|
| Peak data | | | | | | | | |
| 1 394.85 ¹⁾ | H | 75.82 | 27.96 | -50.39 | - | 53.39 | 74.00 | 20.61 |
| 7 466.72 ¹⁾ | H | 65.01 | 35.40 | -50.50 | - | 49.91 | 74.00 | 24.09 |
| 11 199.19 ¹⁾ | H | 69.44 | 37.82 | -50.47 | - | 56.79 | 74.00 | 17.21 |
| 16 806.52 | H | 56.11 | 41.81 | -46.85 | - | 51.07 | 68.20 | 17.13 |
| Average Data | | | | | | | | |
| 11 199.19 ¹⁾ | H | 62.79 | 37.82 | -50.47 | 0.22 | 50.36 | 54.00 | 3.64 |

Average data (11 199.19 MHz)

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.

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Suwon-si, Gyeonggi-do, 16677, Korea
TEL: 82-31-285-0894 FAX: 82-505-299-8311
www.kctl.co.kr

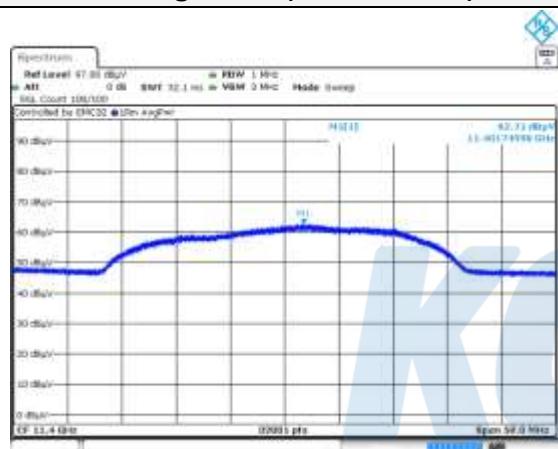
Report No.:

KR20-SRF0030-D

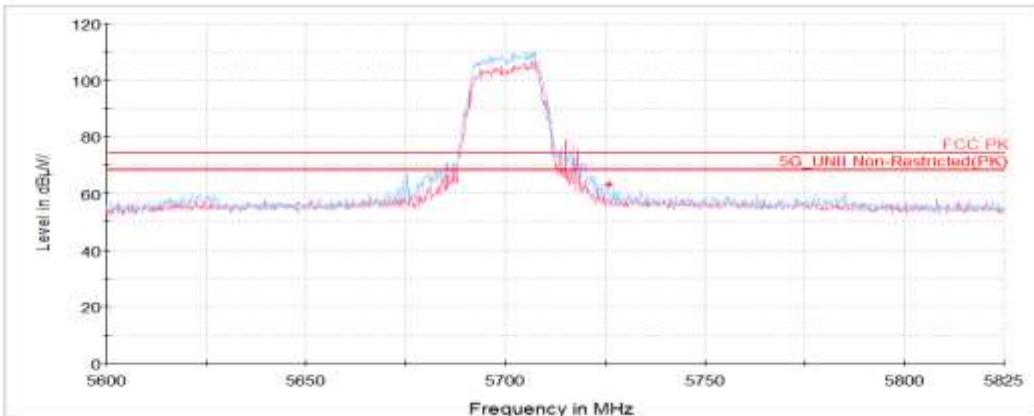
Page (678) of (1046)

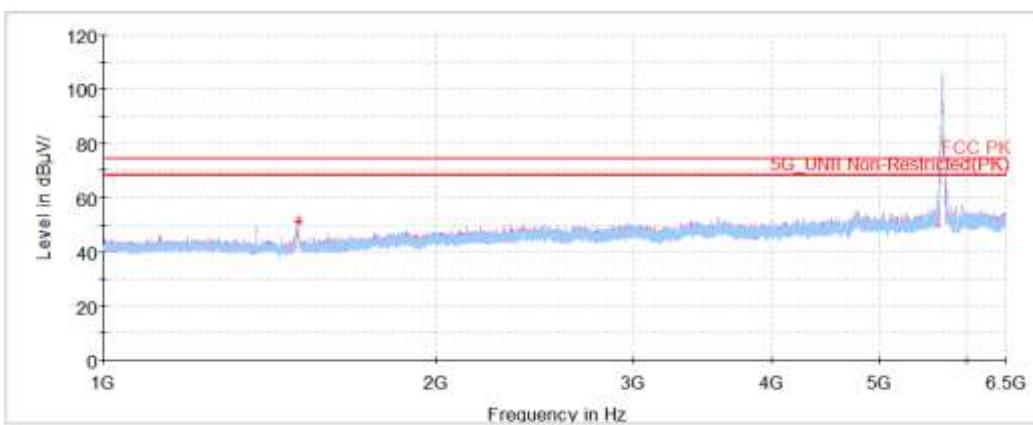
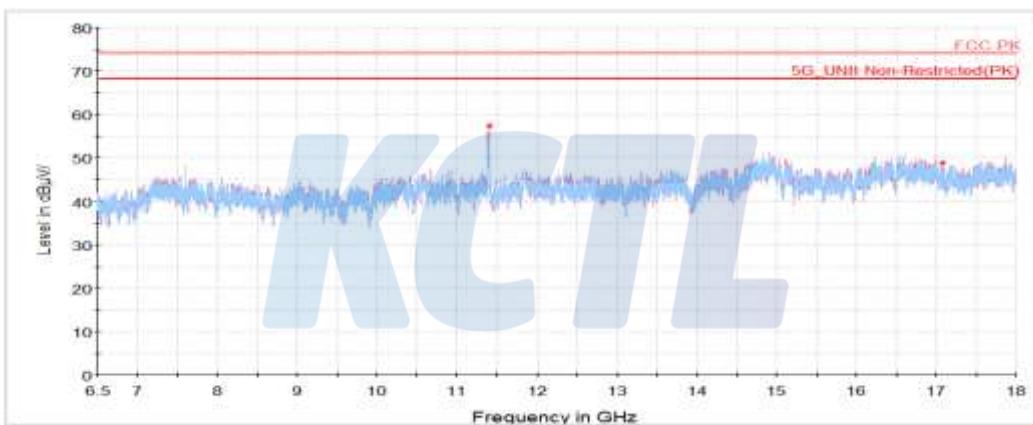
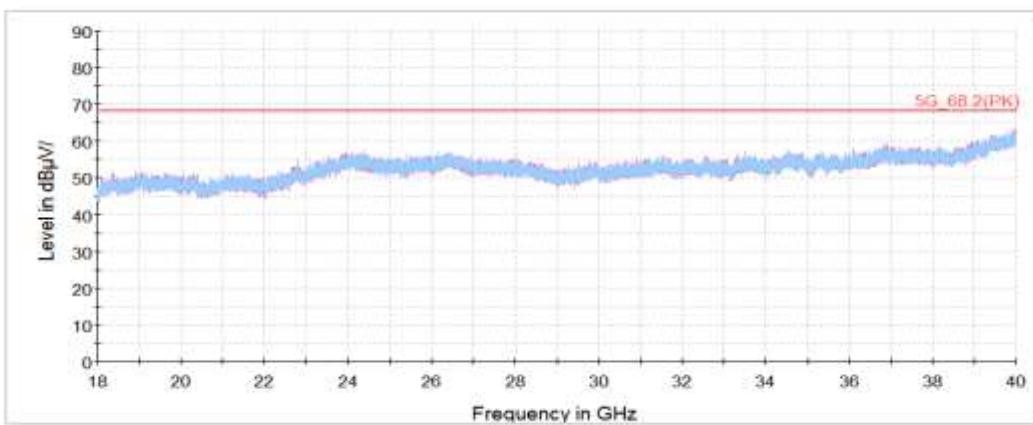
KCTL**Highest Channel (5 700 MHz)**

| Frequency | Pol. | Reading | Antenna Factor | Amp. + Cable | DCCF | Result | Limit | Margin |
|-------------------------|-------|----------------|----------------|--------------|------|------------------|------------------|--------|
| (MHz) | (V/H) | (dB(μ V)) | (dB) | (dB) | (dB) | (dB(μ V/m)) | (dB(μ V/m)) | (dB) |
| Peak data | | | | | | | | |
| 5 725.70 | H | 53.96 | 35.07 | -25.93 | - | 63.10 | 68.20 | 5.10 |
| 11 401.75 ¹⁾ | V | 69.53 | 37.94 | -50.19 | - | 57.28 | 74.00 | 16.72 |
| 17 085.03 | H | 54.64 | 41.27 | -47.20 | - | 48.71 | 68.20 | 19.49 |
| Average Data | | | | | | | | |
| 11 401.75 ¹⁾ | V | 62.71 | 37.94 | -50.19 | 0.22 | 50.68 | 54.00 | 3.32 |

Average data (11 401.75 MHz)

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**

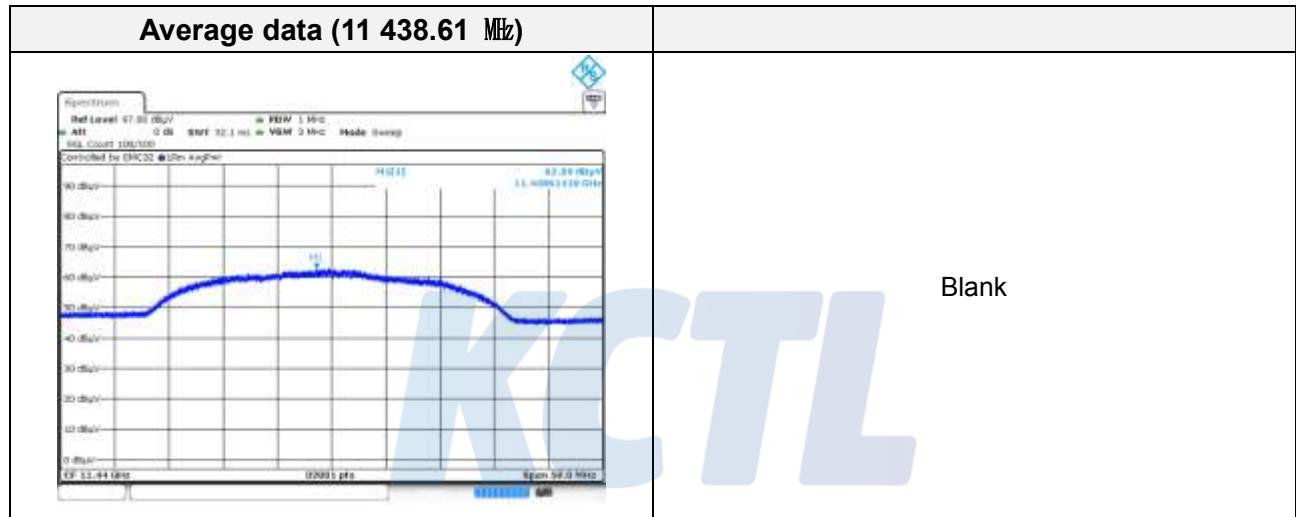
KCTL Inc.

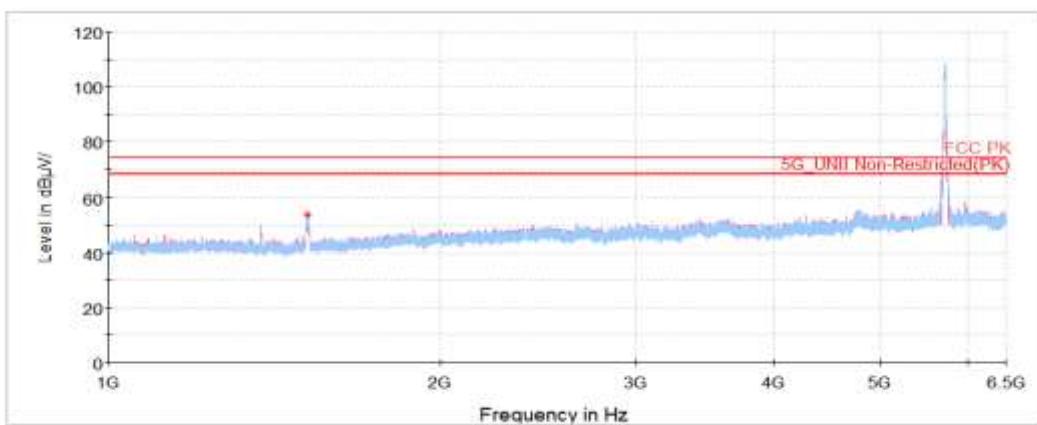
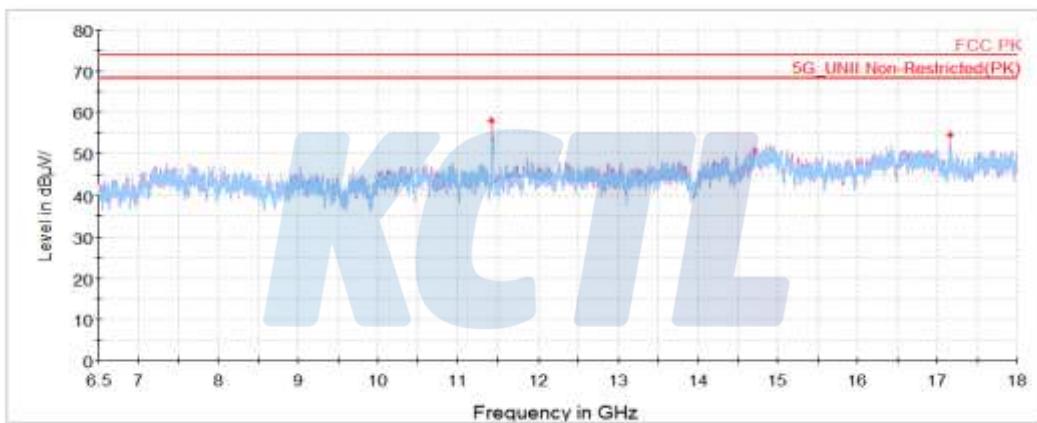
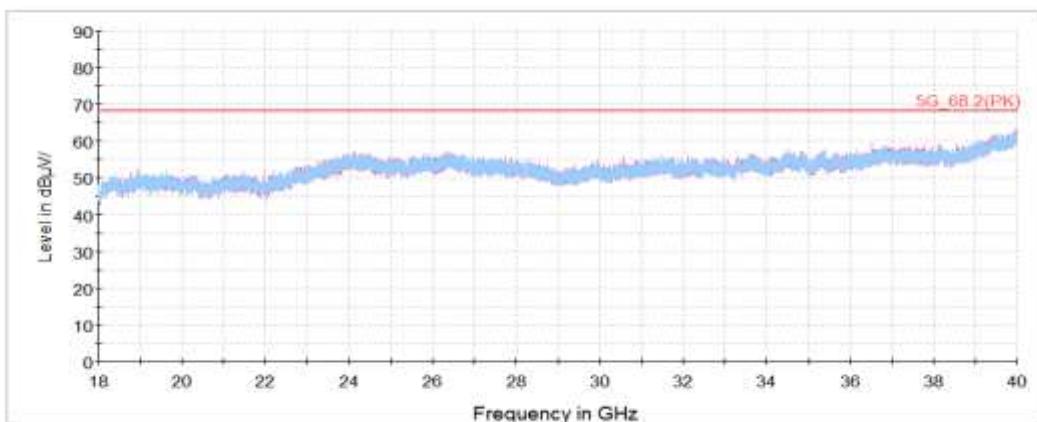
65, Sinwon-ro, Yeongtong-gu,
Suwon-si, Gyeonggi-do, 16677, Korea
TEL: 82-31-285-0894 FAX: 82-505-299-8311
www.kctl.co.kr

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**Straddle Channel (5 720 MHz)**

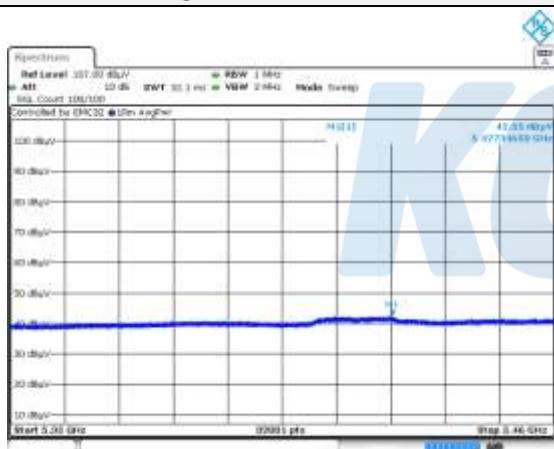
| Frequency (MHz) | Pol. | Reading (dB(μ V)) | Antenna Factor (dB) | Amp. + Cable (dB) | DCCF (dB) | Result (dB(μ V/m)) | Limit (dB(μ V/m)) | Margin (dB) |
|-------------------------|------|---------------------------|------------------------|----------------------|--------------|----------------------------|---------------------------|----------------|
| Peak data | | | | | | | | |
| 1 514.99 ¹⁾ | H | 75.49 | 28.09 | -50.03 | - | 53.55 | 74.00 | 20.45 |
| 11 438.61 ¹⁾ | V | 70.21 | 37.96 | -50.14 | - | 58.03 | 74.00 | 15.97 |
| 17 163.38 ¹⁾ | V | 60.73 | 41.23 | -47.47 | - | 54.49 | 68.20 | 13.71 |
| Average Data | | | | | | | | |
| 11 438.61 ¹⁾ | V | 62.89 | 37.96 | -50.14 | 0.22 | 50.93 | 54.00 | 3.07 |

Average data (11 438.61 MHz)

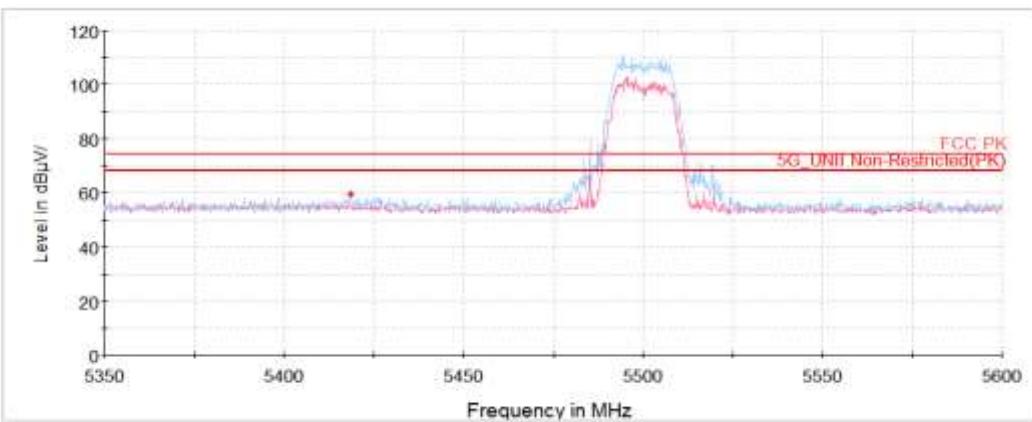
Horizontal/Vertical for 1 GHz ~ 6.5 GHz**Horizontal/Vertical for 6.5 GHz ~ 18 GHz****Horizontal/Vertical for 18 GHz ~ 40 GHz**

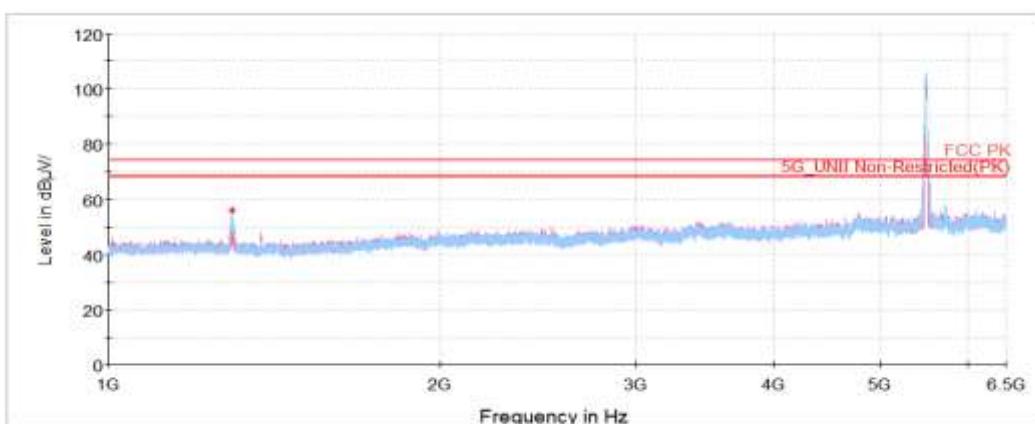
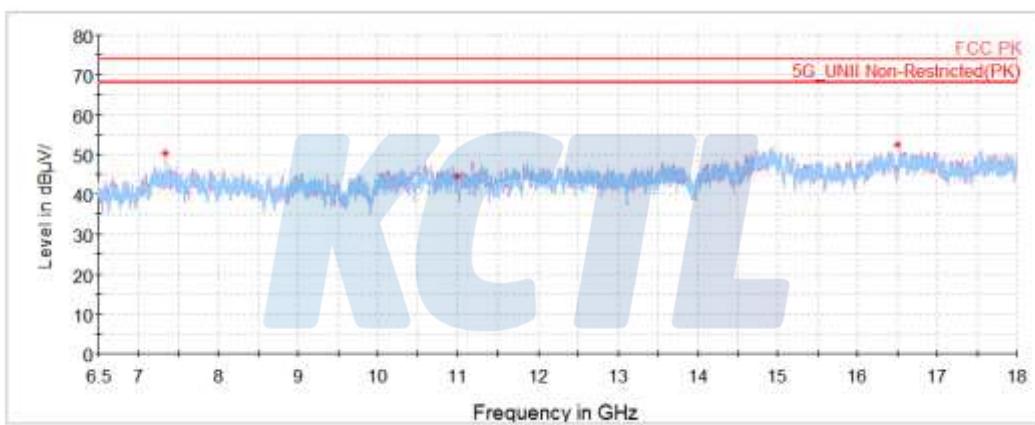
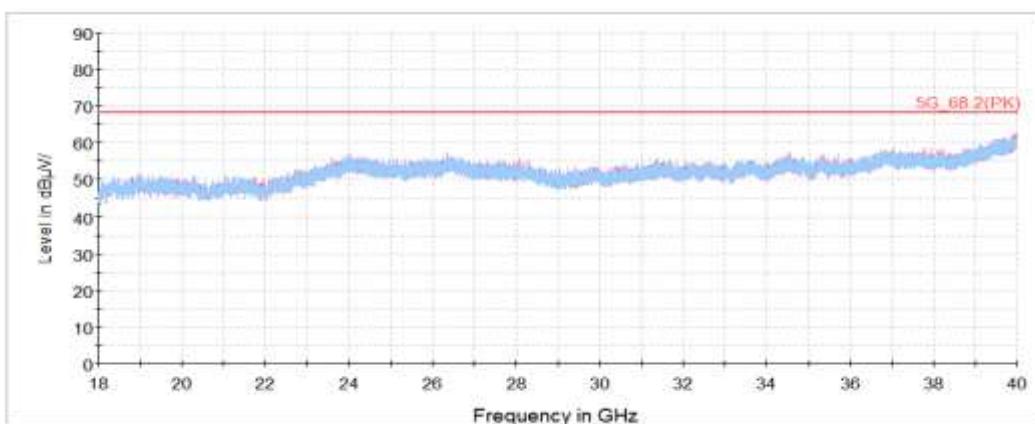
802.11a UNII 2C ANT 1**Lowest Channel (5 500 MHz)**

| Frequency (MHz) | Pol. | Reading (dB(µV)) | Antenna Factor (dB) | Amp. + Cable (dB) | DCCF (dB) | Result (dB(µV/m)) | Limit (dB(µV/m)) | Margin (dB) |
|-------------------------|------|---------------------|------------------------|----------------------|--------------|----------------------|---------------------|----------------|
| Peak data | | | | | | | | |
| 1 295.11 | H | 77.83 | 27.92 | -50.08 | - | 55.67 | 68.20 | 12.53 |
| 5 427.35 ¹⁾ | H | 51.51 | 34.68 | -27.01 | - | 59.18 | 74.00 | 14.82 |
| 7 332.67 ¹⁾ | V | 66.06 | 35.40 | -51.13 | - | 50.33 | 74.00 | 23.67 |
| 10 999.02 ¹⁾ | V | 57.37 | 37.70 | -50.75 | - | 44.32 | 74.00 | 29.68 |
| 16 501.77 | V | 57.61 | 41.50 | -46.76 | - | 52.35 | 68.20 | 15.85 |
| Average Data | | | | | | | | |
| 5 427.35 ¹⁾ | H | 42.65 | 34.68 | -27.01 | 0.22 | 50.54 | 54.00 | 3.46 |

Average data (5 427.35 MHz)

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**

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

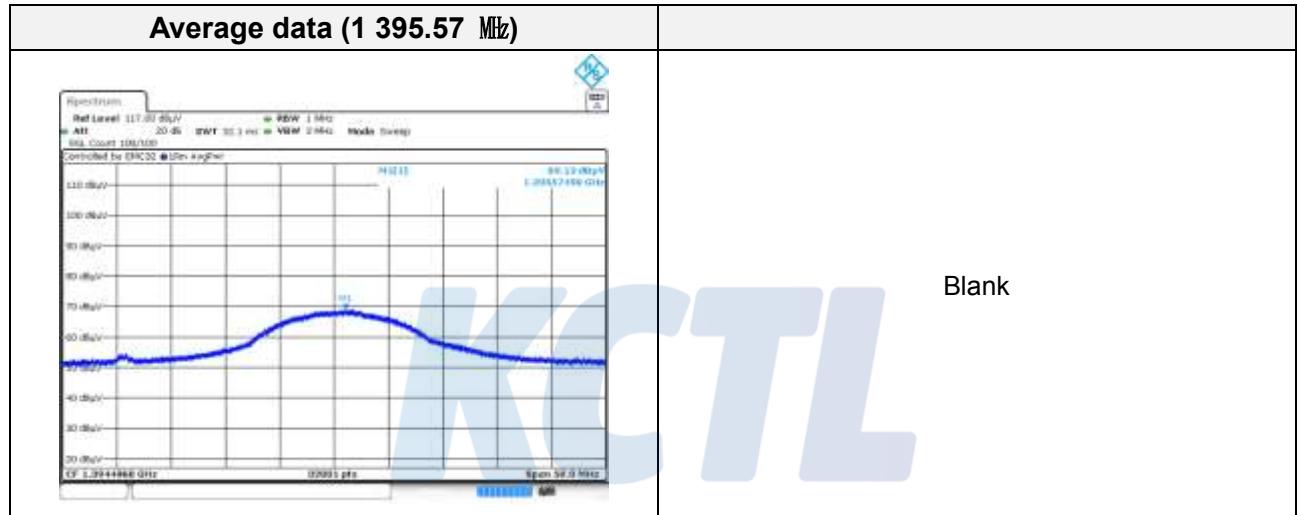
Report No.:

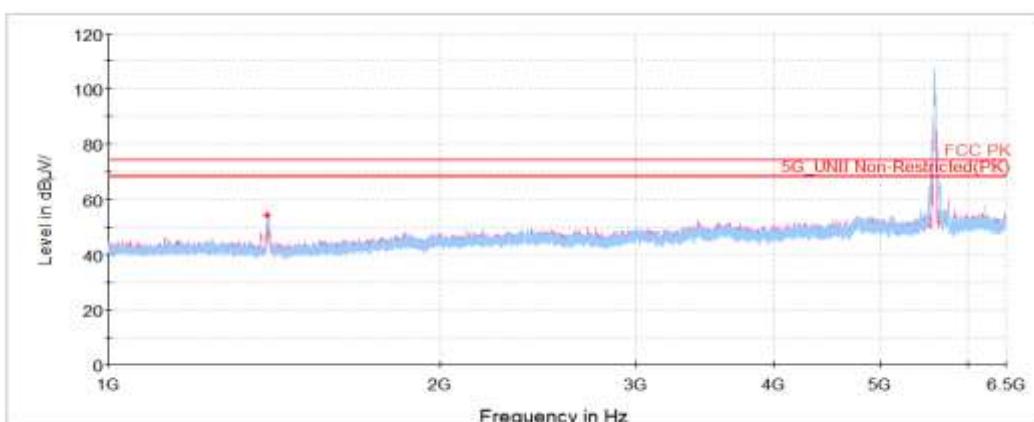
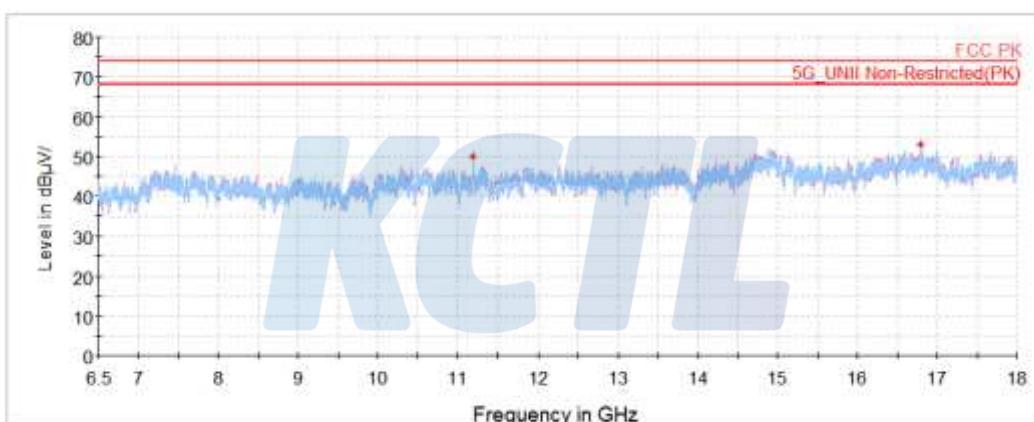
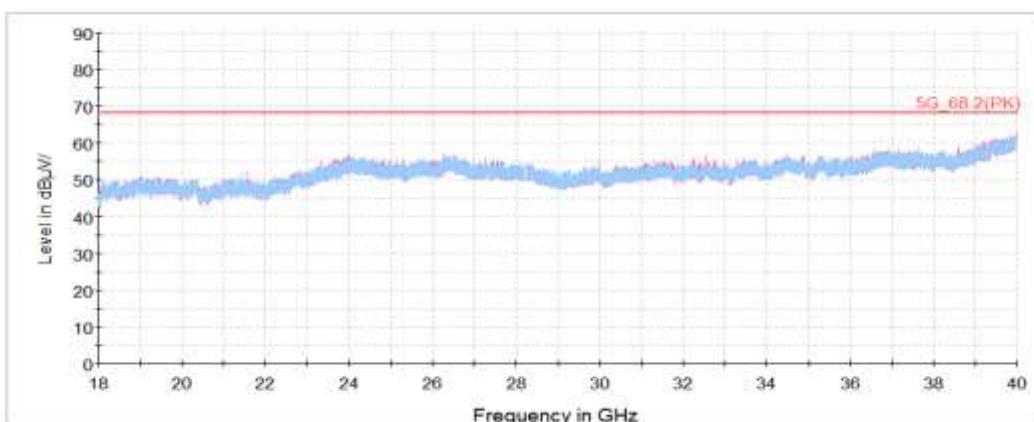
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KCTL**Middle Channel (5 600 MHz)**

| Frequency | Pol. | Reading | Antenna Factor | Amp. + Cable | DCCF | Result | Limit | Margin |
|-------------------------|-------|----------------|----------------|--------------|------|------------------|------------------|--------|
| (MHz) | (V/H) | (dB(μ V)) | (dB) | (dB) | (dB) | (dB(μ V/m)) | (dB(μ V/m)) | (dB) |
| Peak data | | | | | | | | |
| 1 395.57 ¹⁾ | H | 76.52 | 27.96 | -50.39 | - | 54.09 | 74.00 | 19.91 |
| 11 196.31 ¹⁾ | V | 62.65 | 37.82 | -50.48 | - | 49.99 | 74.00 | 24.01 |
| 16 797.89 | V | 57.95 | 41.80 | -46.85 | - | 52.90 | 68.20 | 15.30 |
| Average Data | | | | | | | | |
| 1 395.57 ¹⁾ | H | 69.13 | 27.96 | -50.39 | 0.22 | 46.92 | 54.00 | 7.08 |

Average data (1 395.57 MHz)

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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Suwon-si, Gyeonggi-do, 16677, Korea
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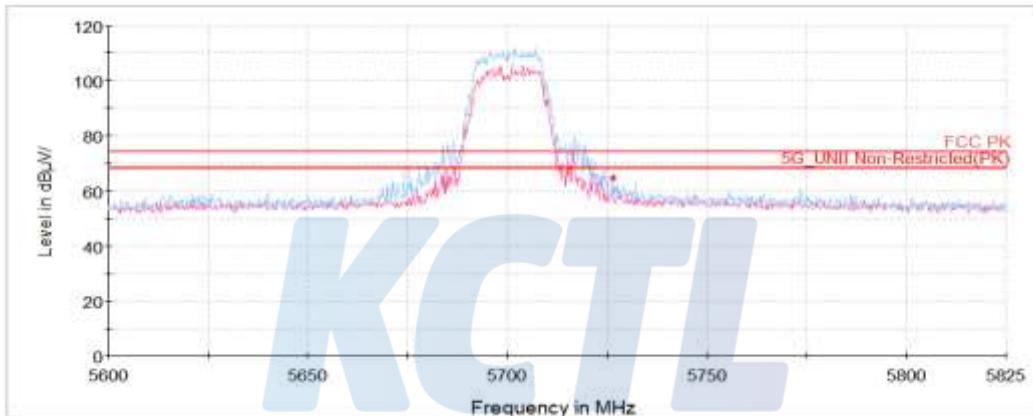
Report No.:

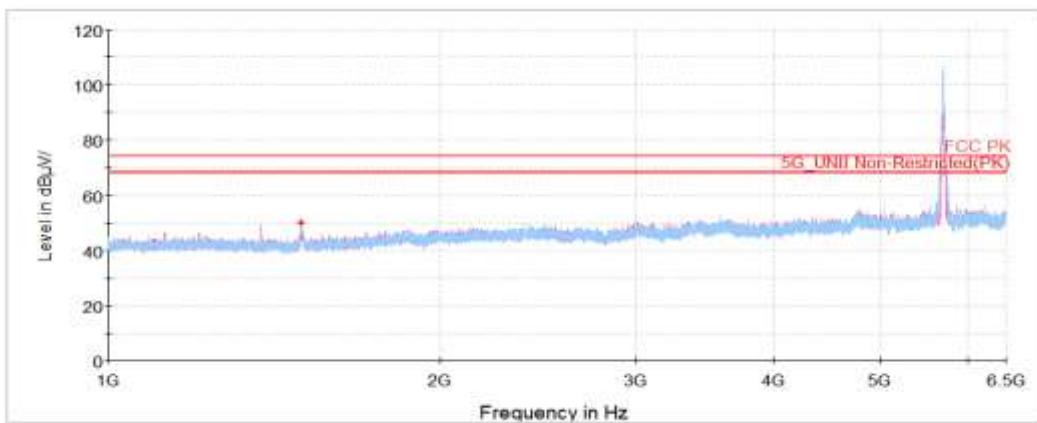
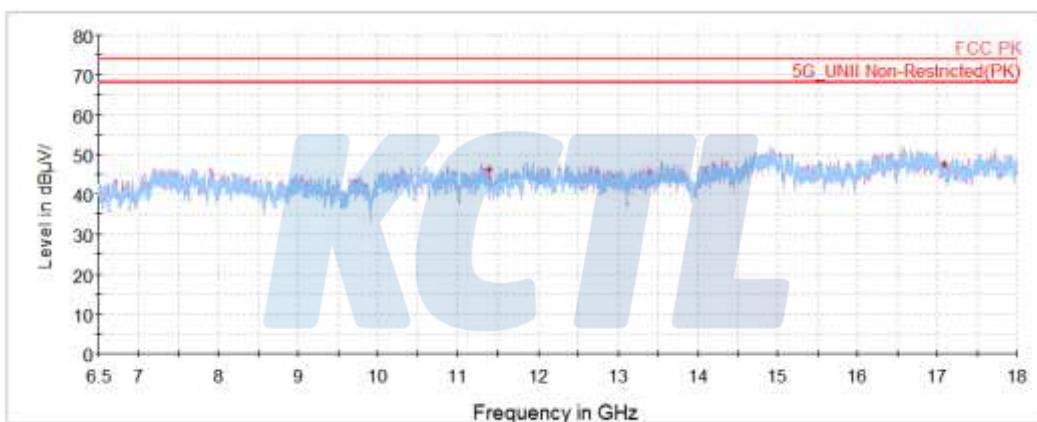
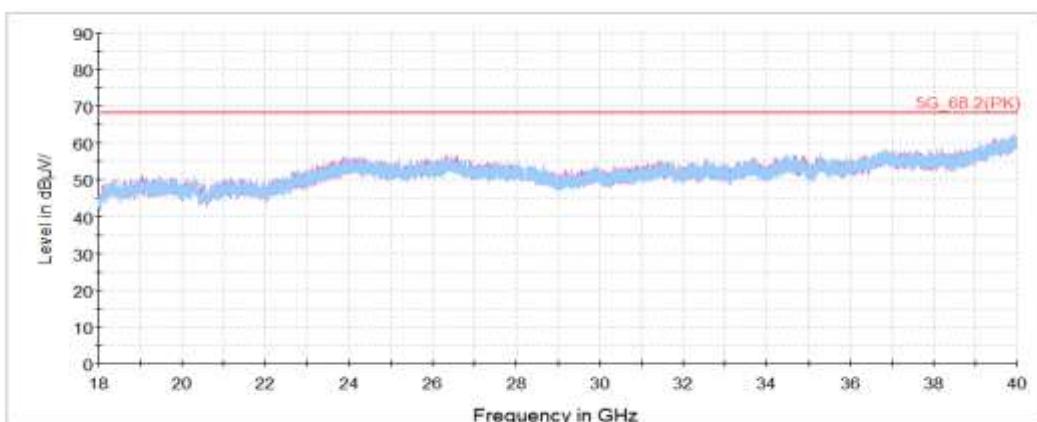
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KCTL**Highest Channel (5 700 MHz)**

| Frequency (MHz) | Pol. | Reading (dB(μ V)) | Antenna Factor (dB) | Amp. + Cable (dB) | DCCF (dB) | Result (dB(μ V/m)) | Limit (dB(μ V/m)) | Margin (dB) |
|--|------|---------------------------|------------------------|----------------------|--------------|----------------------------|---------------------------|----------------|
| Peak data | | | | | | | | |
| 5 726.39 | H | 55.49 | 35.07 | -25.94 | - | 64.62 | 68.20 | 3.58 |
| 11 401.52 ¹⁾ | V | 58.37 | 37.94 | -50.19 | - | 46.12 | 74.00 | 27.88 |
| 17 096.53 | V | 53.46 | 41.26 | -47.24 | - | 47.48 | 68.20 | 20.72 |
| Average Data | | | | | | | | |
| 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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 Suwon-si, Gyeonggi-do, 16677, Korea
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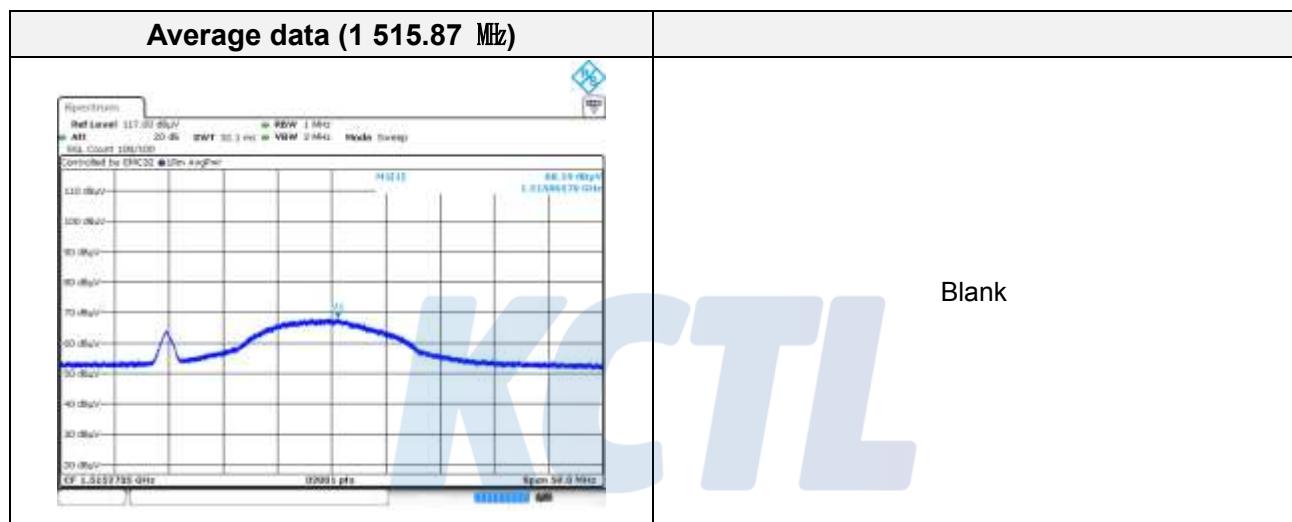
Report No.:

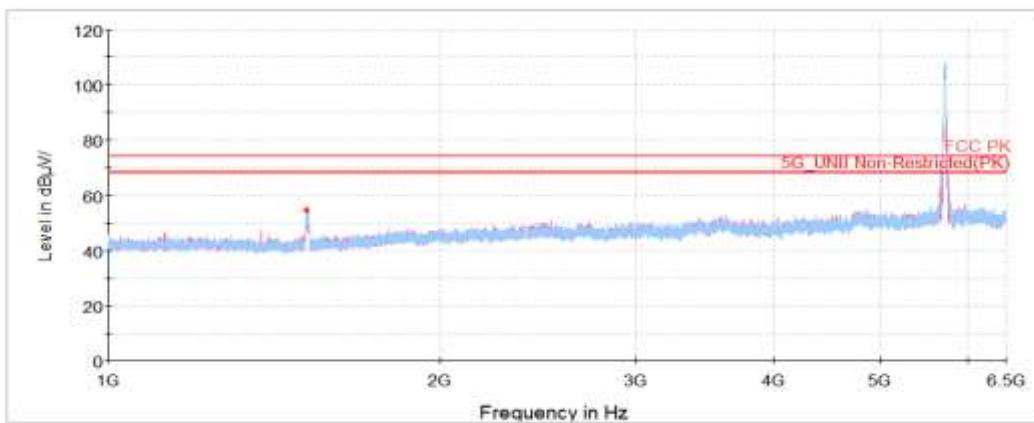
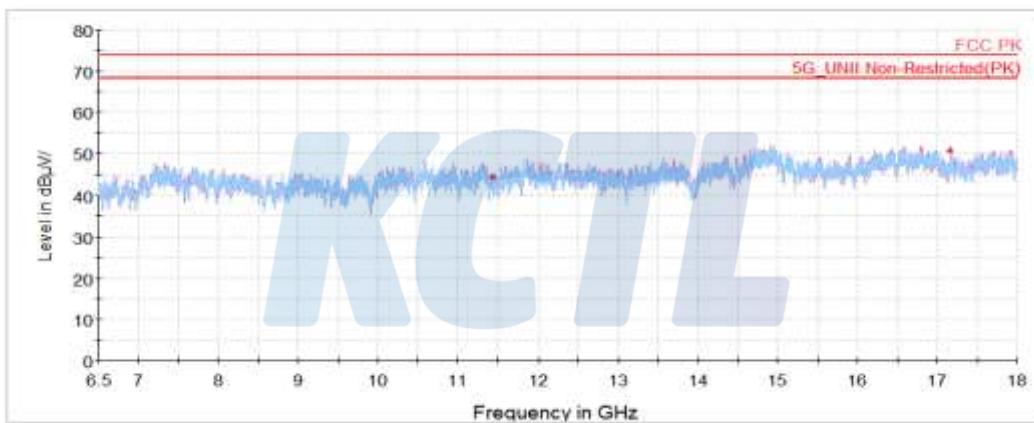
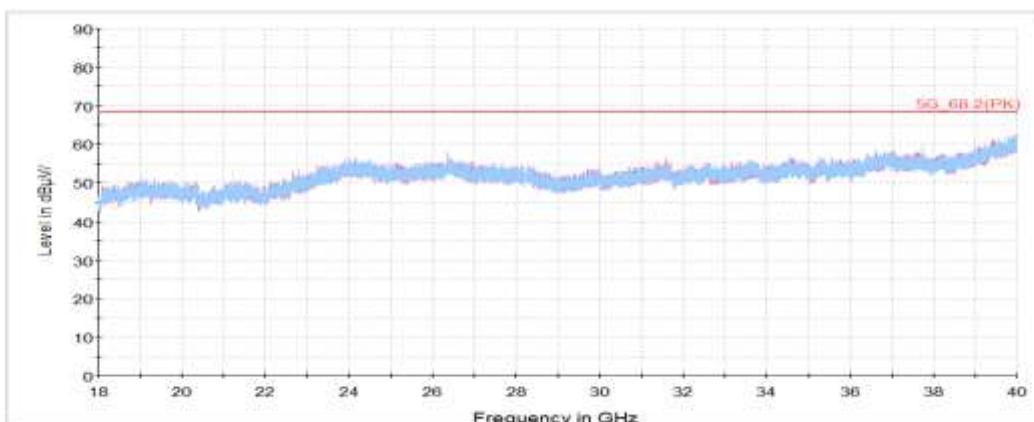
KR20-SRF0030-D

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KCTL**Straddle Channel (5 720 MHz)**

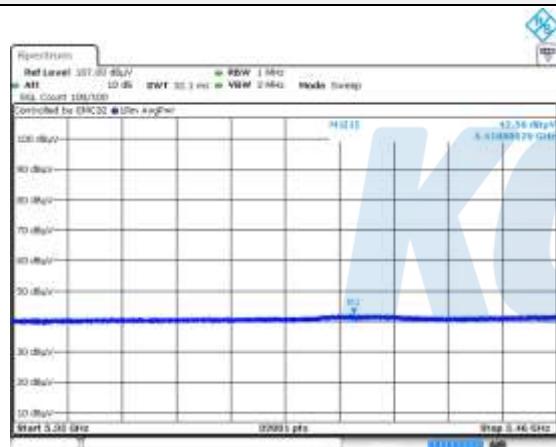
| Frequency | Pol. | Reading | Antenna Factor | Amp. + Cable | DCCF | Result | Limit | Margin |
|-------------------------|-------|----------------|----------------|--------------|------|------------------|------------------|--------|
| (MHz) | (V/H) | (dB(μ V)) | (dB) | (dB) | (dB) | (dB(μ V/m)) | (dB(μ V/m)) | (dB) |
| Peak data | | | | | | | | |
| 1 515.87 ¹⁾ | H | 76.24 | 28.10 | -50.03 | - | 54.31 | 74.00 | 19.69 |
| 11 439.97 ¹⁾ | V | 56.37 | 37.96 | -50.14 | - | 44.19 | 74.00 | 29.81 |
| 17 161.94 | H | 56.99 | 41.24 | -47.47 | - | 50.76 | 68.20 | 17.44 |
| Average Data | | | | | | | | |
| 1 515.87 ¹⁾ | H | 68.19 | 28.10 | -50.03 | 0.22 | 46.48 | 54.00 | 7.52 |



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 ANT 2**Lowest Channel (5 500 MHz)**

| Frequency (MHz) | Pol. | Reading (dB(µV)) | Antenna Factor (dB) | Amp. + Cable (dB) | DCCF (dB) | Result (dB(µV/m)) | Limit (dB(µV/m)) | Margin (dB) |
|-------------------------|------|---------------------|------------------------|----------------------|--------------|----------------------|---------------------|----------------|
| Peak data | | | | | | | | |
| 1 292.70 | V | 76.21 | 27.92 | -50.07 | - | 54.06 | 68.20 | 14.14 |
| 5 418.88 ¹⁾ | V | 50.94 | 34.67 | -26.92 | - | 58.69 | 74.00 | 15.31 |
| 11 003.33 ¹⁾ | V | 56.42 | 37.70 | -50.75 | - | 43.37 | 74.00 | 30.63 |
| 16 498.89 | H | 51.25 | 42.00 | -46.77 | - | 46.48 | 68.20 | 21.72 |
| Average Data | | | | | | | | |
| 5 418.88 ¹⁾ | V | 42.56 | 34.67 | -26.92 | 0.22 | 50.53 | 54.00 | 3.47 |

Average data (5 418.88 MHz)

Blank

Horizontal/Vertical for Band-edge