

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.:
KR19-SRF0176

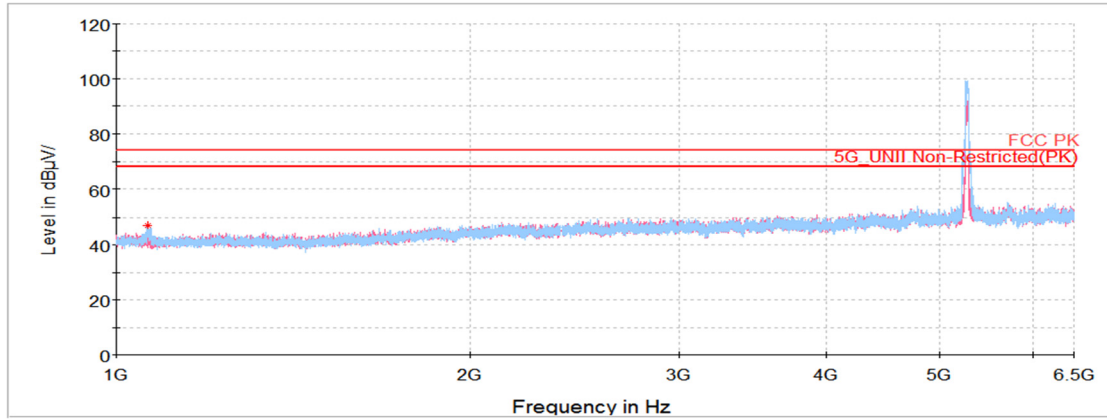
Page (138) of (220)

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

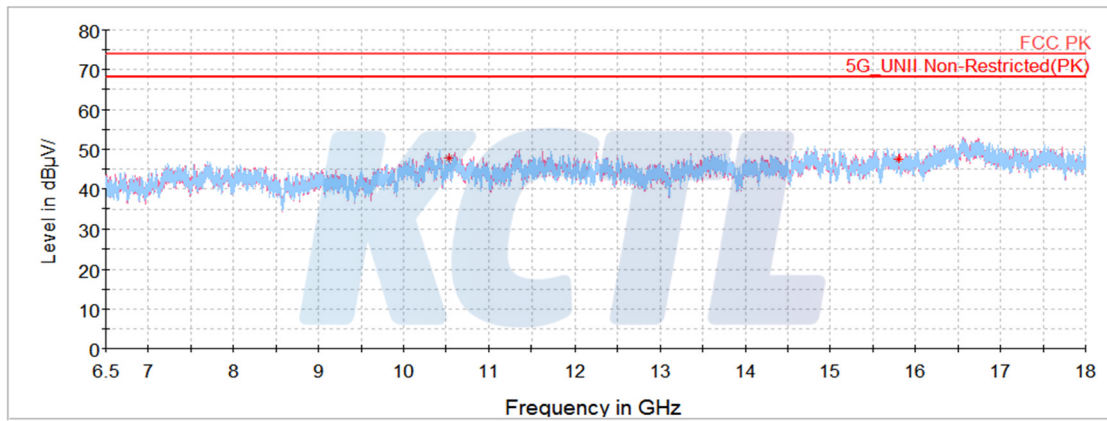
| Frequency (MHz) | Pol. (V/H) | Reading (dB(μ V)) | Ant. Factor (dB) | Amp.+Cable (dB) | DCCF (dB) | Result (dB(μ V/m)) | Limit (dB(μ V/m)) | Margin (dB) |
|--|---------------|---------------------------|---------------------|--------------------|--------------|----------------------------|---------------------------|----------------|
| Peak data | | | | | | | | |
| 1 064.45 ¹⁾ | H | 71.01 | 26.94 | -50.77 | - | 47.18 | 74.00 | 26.82 |
| 10 541.17 | H | 58.51 | 37.62 | -48.35 | - | 47.78 | 68.20 | 20.42 |
| 15 810.33 ¹⁾ | H | 55.69 | 39.70 | -48.05 | - | 47.34 | 74.00 | 26.66 |
| Average Data | | | | | | | | |
| No spurious emissions were detected within 20 dB of the limit. | | | | | | | | |

KCTL

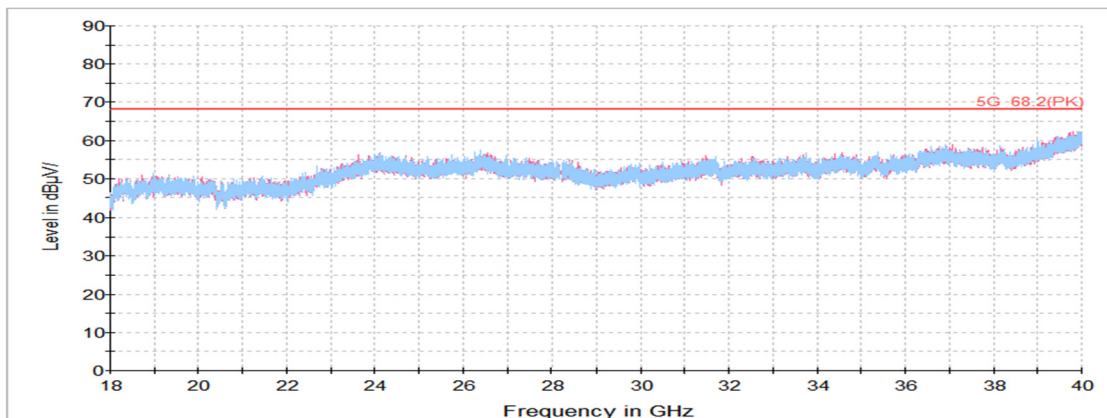
Horizontal/Vertical for 1 GHz ~ 6.5 GHz



Horizontal/Vertical for 6.5 GHz ~ 18 GHz



Horizontal/Vertical for 18 GHz ~ 40 GHz



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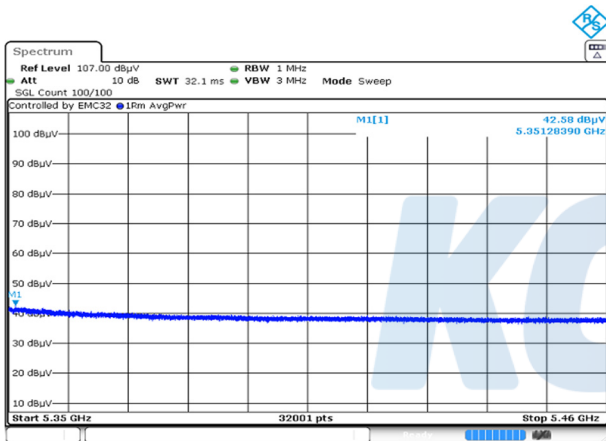
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Highest Channel (5 310 MHz)

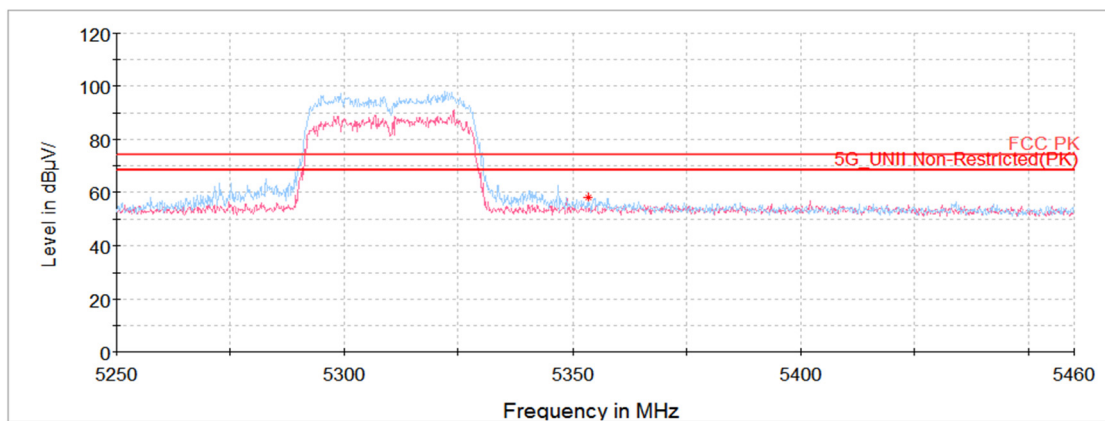
| Frequency | Pol. | Reading | Ant. Factor | Amp.+Cable | DCCF | Result | Limit | Margin |
|-------------------------|-------|----------|-------------|------------|------|------------|------------|--------|
| (MHz) | (V/H) | (dB(μV)) | (dB) | (dB) | (dB) | (dB(μV/m)) | (dB(μV/m)) | (dB) |
| Peak data | | | | | | | | |
| 1 110.52 ¹⁾ | H | 70.70 | 26.97 | -50.83 | - | 46.84 | 74.00 | 27.16 |
| 5 351.28 ¹⁾ | H | 50.29 | 34.35 | -26.84 | - | 57.80 | 74.00 | 16.20 |
| 10 620.59 ¹⁾ | V | 58.90 | 37.67 | -48.87 | - | 47.70 | 74.00 | 26.30 |
| 15 930.00 ¹⁾ | V | 54.72 | 39.70 | -48.07 | - | 46.35 | 74.00 | 27.65 |
| Average Data | | | | | | | | |
| 5 351.28 ¹⁾ | H | 42.58 | 34.35 | -26.84 | 0.61 | 50.70 | 54.00 | 3.30 |

Average data

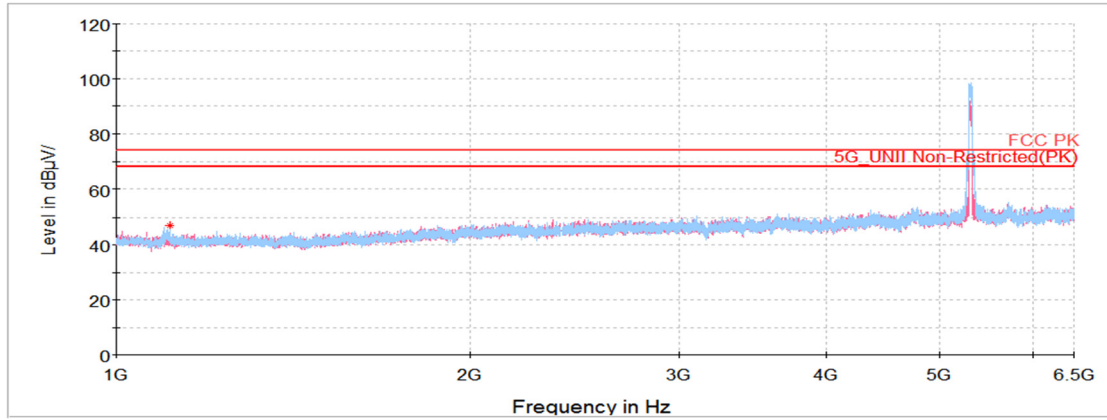


Blank

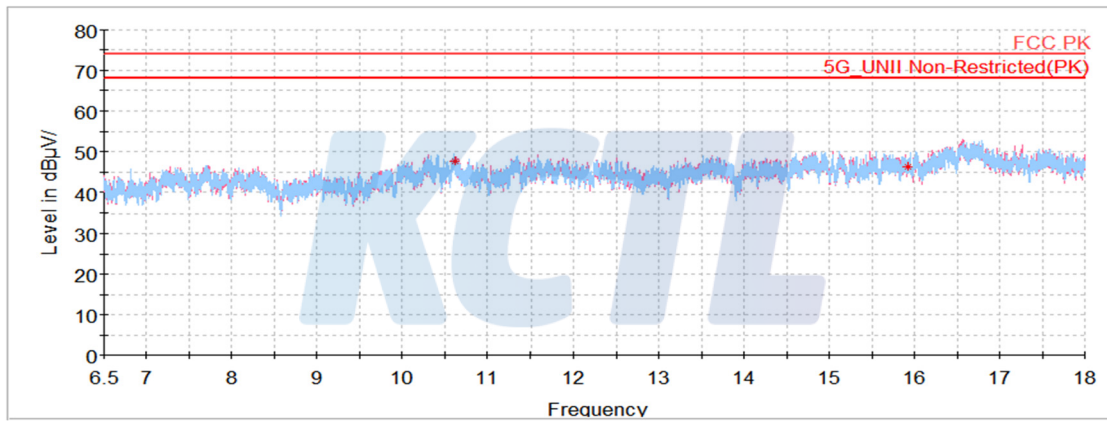
Horizontal/Vertical for Band-edge



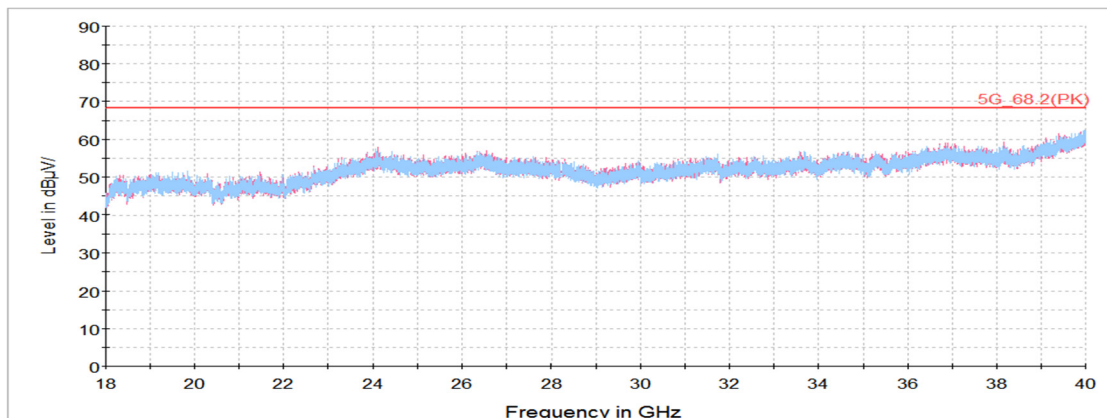
Horizontal/Vertical for 1 GHz ~ 6.5 GHz



Horizontal/Vertical for 6.5 GHz ~ 18 GHz



Horizontal/Vertical for 18 GHz ~ 40 GHz



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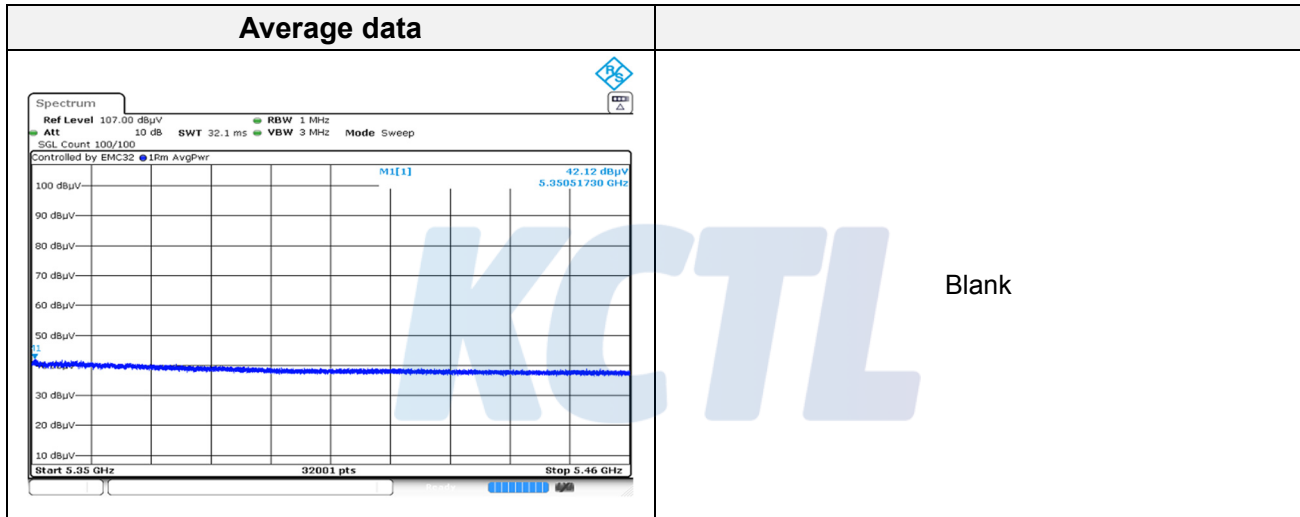
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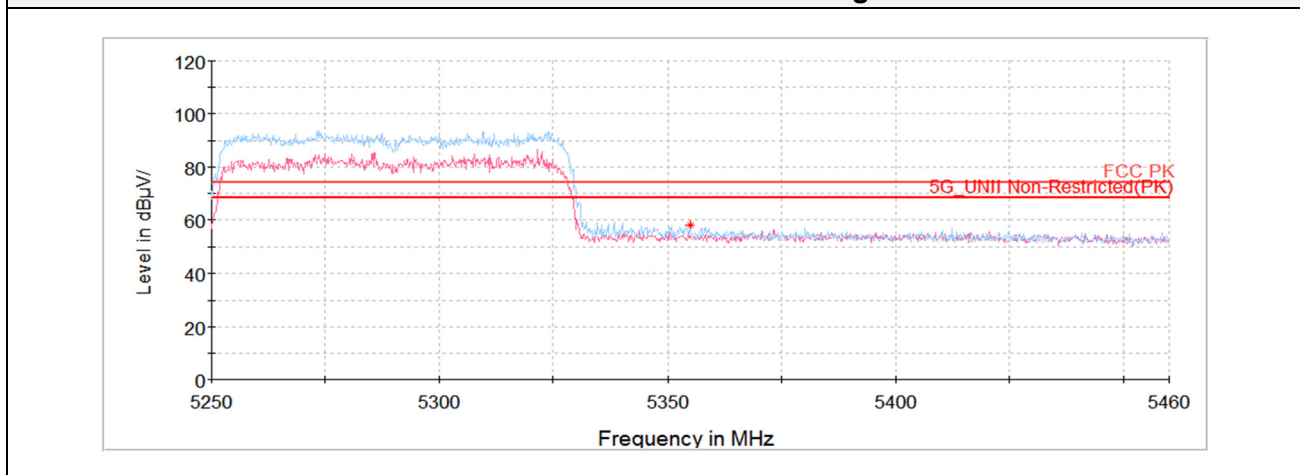
802.11ac VHT80 UNII-2A

Lowest Channel (5 290 MHz)

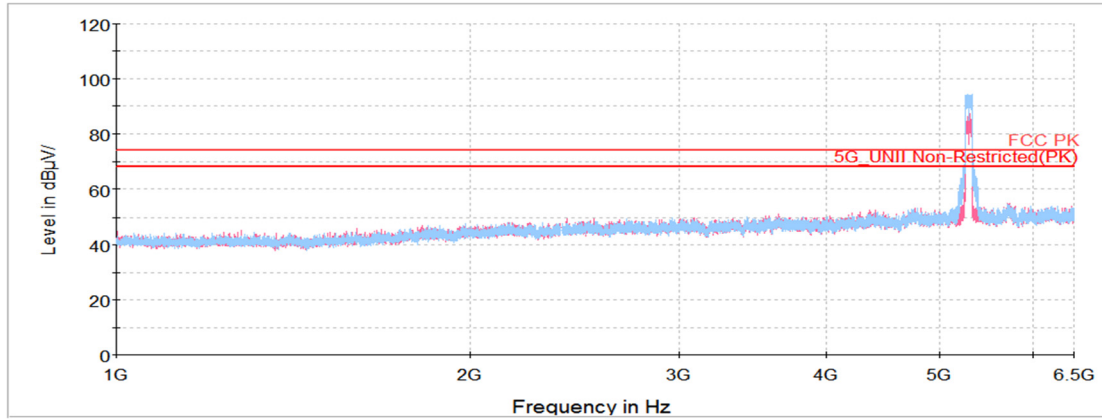
| Frequency | Pol. | Reading | Ant. Factor | Amp.+Cable | DCCF | Result | Limit | Margin |
|-------------------------|-------|----------|-------------|------------|------|------------|------------|--------|
| (MHz) | (V/H) | (dB(μV)) | (dB) | (dB) | (dB) | (dB(μV/m)) | (dB(μV/m)) | (dB) |
| Peak data | | | | | | | | |
| 5 350.52 ¹⁾ | H | 50.28 | 34.35 | -26.84 | - | 57.79 | 74.00 | 16.21 |
| 10 580.34 | V | 59.04 | 37.65 | -48.61 | - | 48.08 | 68.20 | 20.12 |
| 15 870.34 ¹⁾ | H | 56.40 | 39.70 | -48.06 | - | 48.04 | 74.00 | 25.96 |
| Average Data | | | | | | | | |
| 5 350.52 ¹⁾ | H | 42.12 | 34.35 | -26.84 | 1.25 | 50.88 | 54.00 | 3.12 |



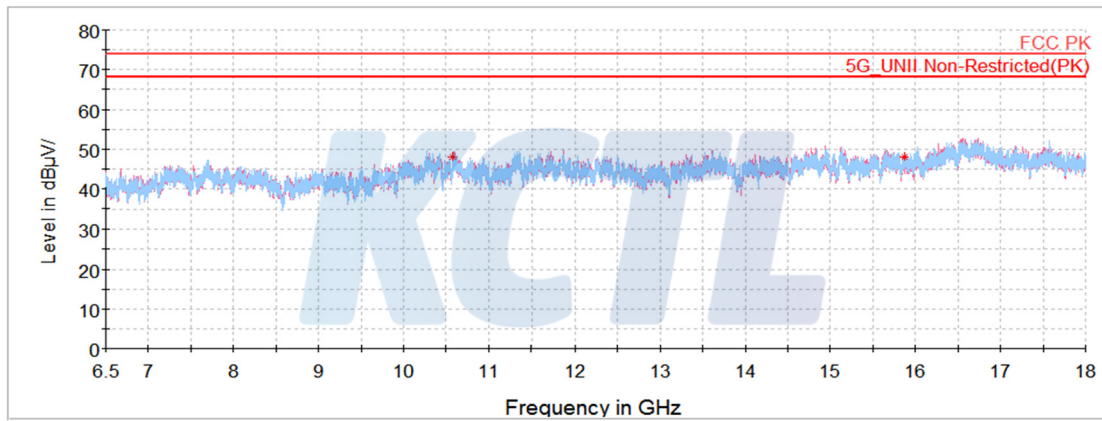
Horizontal/Vertical for Band-edge



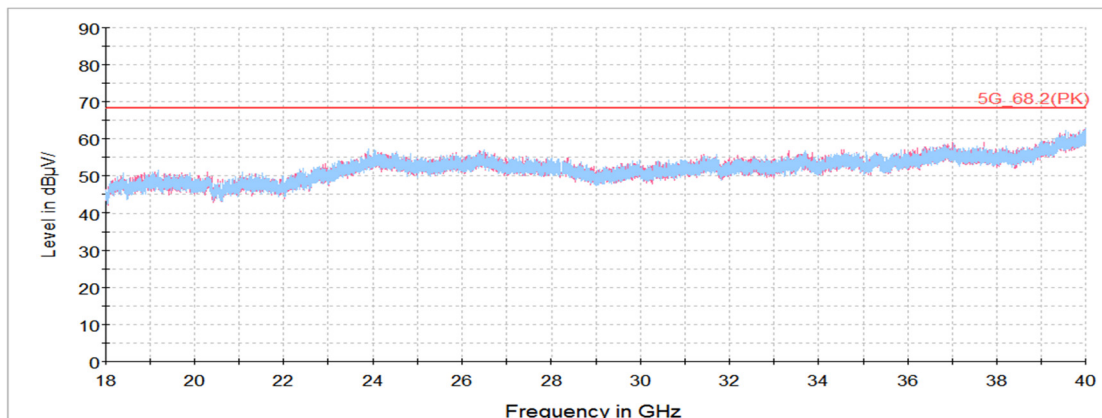
Horizontal/Vertical for 1 GHz ~ 6.5 GHz



Horizontal/Vertical for 6.5 GHz ~ 18 GHz



Horizontal/Vertical for 18 GHz ~ 40 GHz



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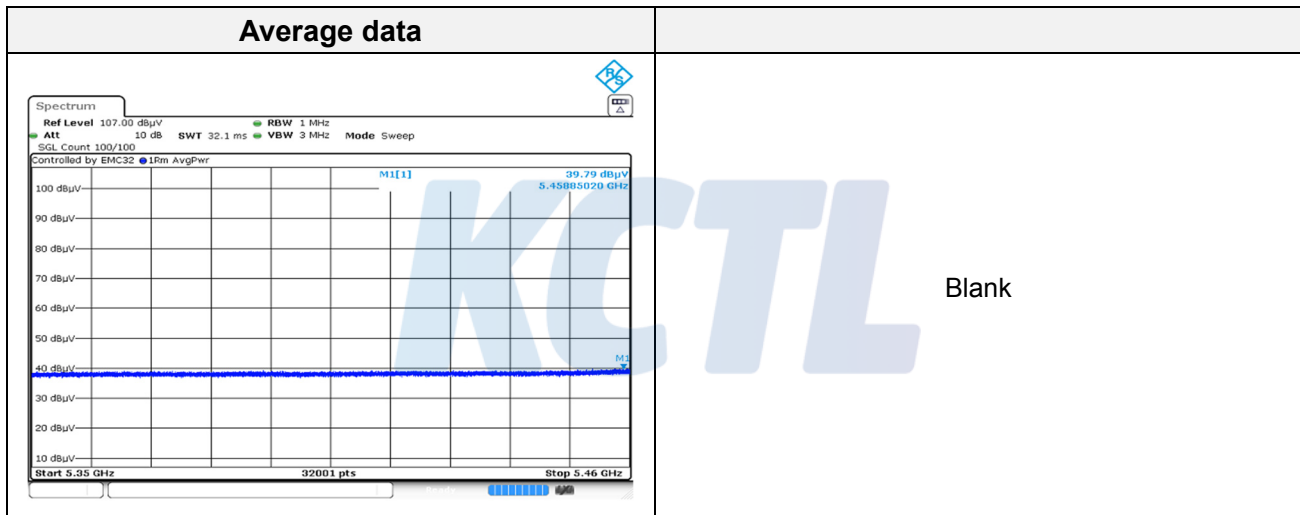
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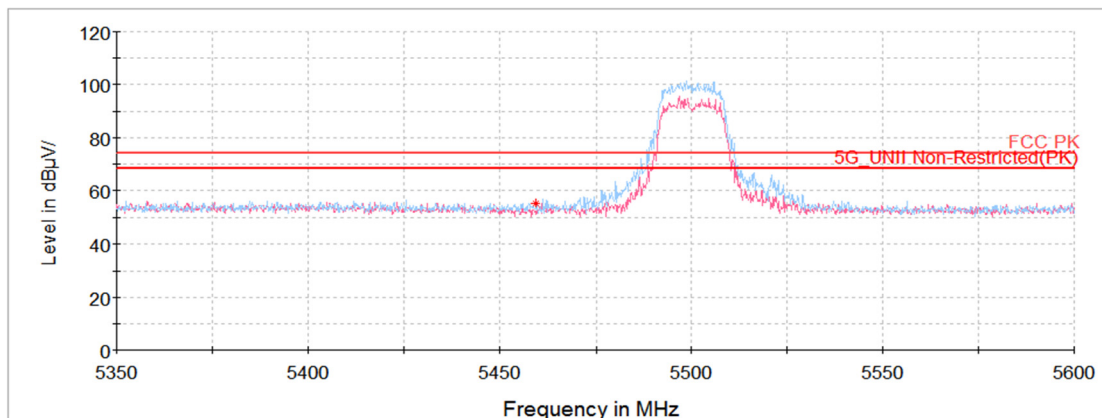
802.11a UNII-2C

Lowest Channel (5 500 MHz)

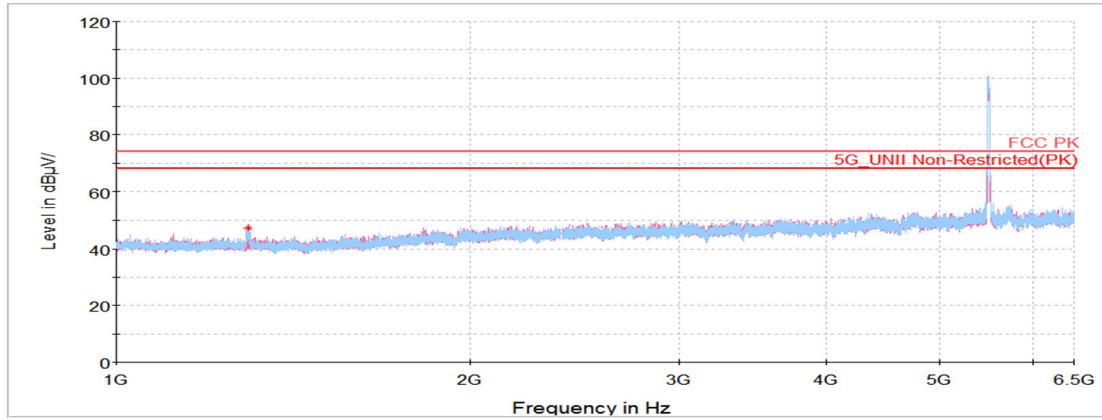
| Frequency | Pol. | Reading | Ant. Factor | Amp.+Cable | DCCF | Result | Limit | Margin |
|-------------------------|-------|----------------|-------------|------------|------|------------------|------------------|--------|
| (MHz) | (V/H) | (dB(μ V)) | (dB) | (dB) | (dB) | (dB(μ V/m)) | (dB(μ V/m)) | (dB) |
| Peak data | | | | | | | | |
| 1 294.59 | H | 70.86 | 27.08 | -50.41 | - | 47.53 | 68.20 | 20.67 |
| 5 459.64 ¹⁾ | H | 47.84 | 34.46 | -27.35 | - | 54.95 | 74.00 | 19.05 |
| 11 001.53 ¹⁾ | V | 55.98 | 37.90 | -51.37 | - | 42.51 | 74.00 | 31.49 |
| 16 500.69 | H | 52.40 | 41.10 | -45.33 | - | 48.17 | 68.20 | 20.03 |
| Average Data | | | | | | | | |
| 5 459.64 ¹⁾ | H | 39.79 | 34.46 | -27.35 | 0.30 | 47.20 | 54.00 | 6.80 |



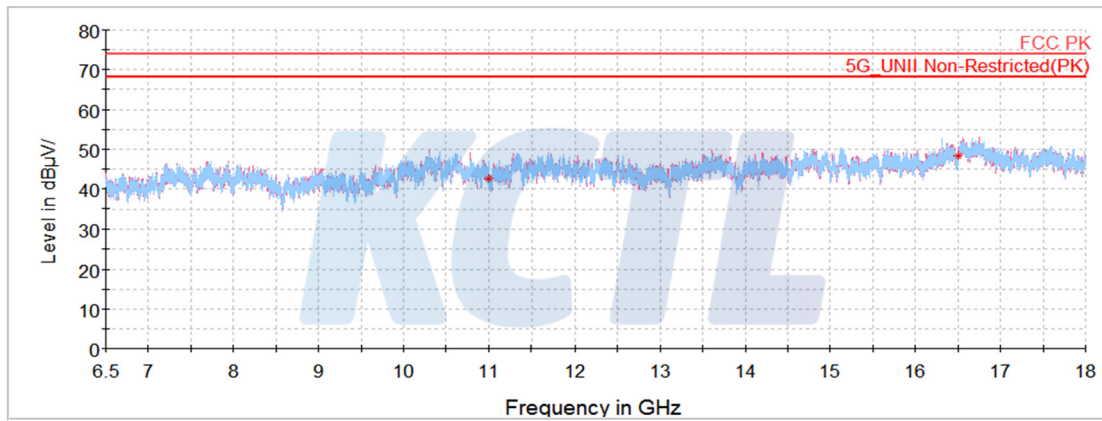
Horizontal/Vertical for Band-edge



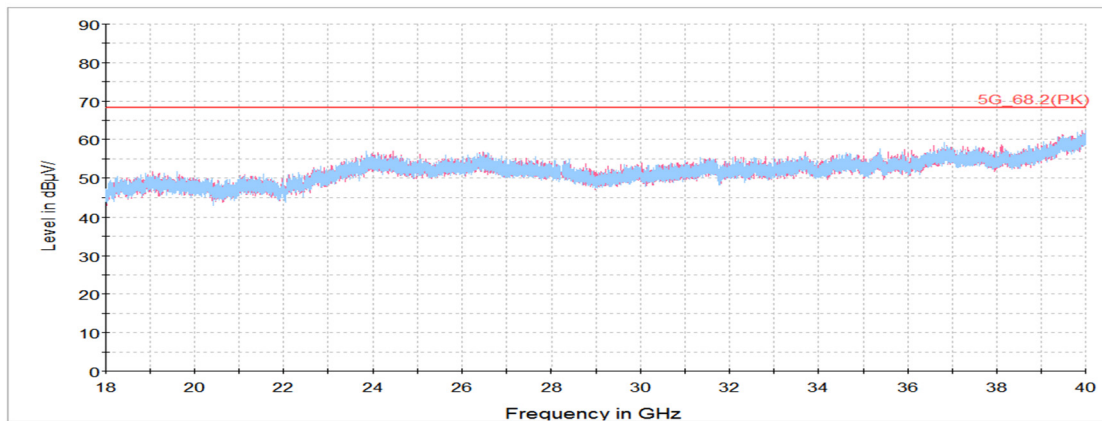
Horizontal/Vertical for 1 GHz ~ 6.5 GHz



Horizontal/Vertical for 6.5 GHz ~ 18 GHz



Horizontal/Vertical for 18 GHz ~ 40 GHz



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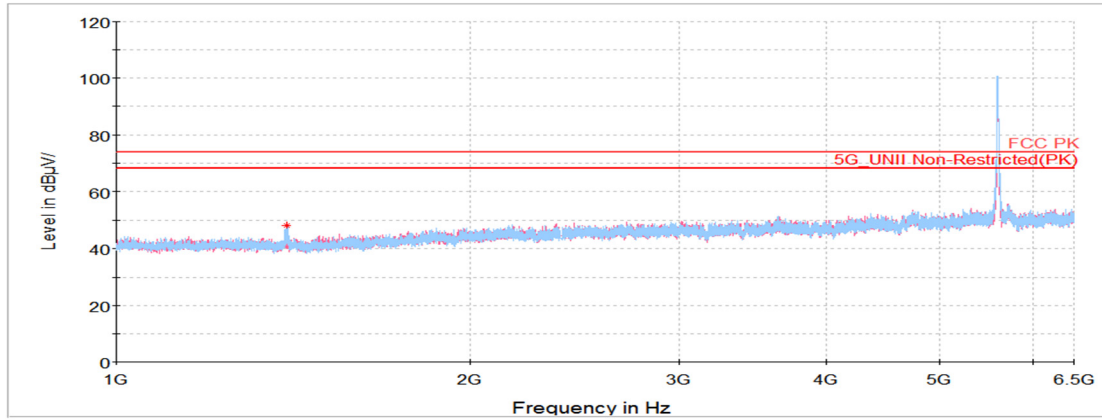
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KCTL**Middle Channel (5 600 MHz)**

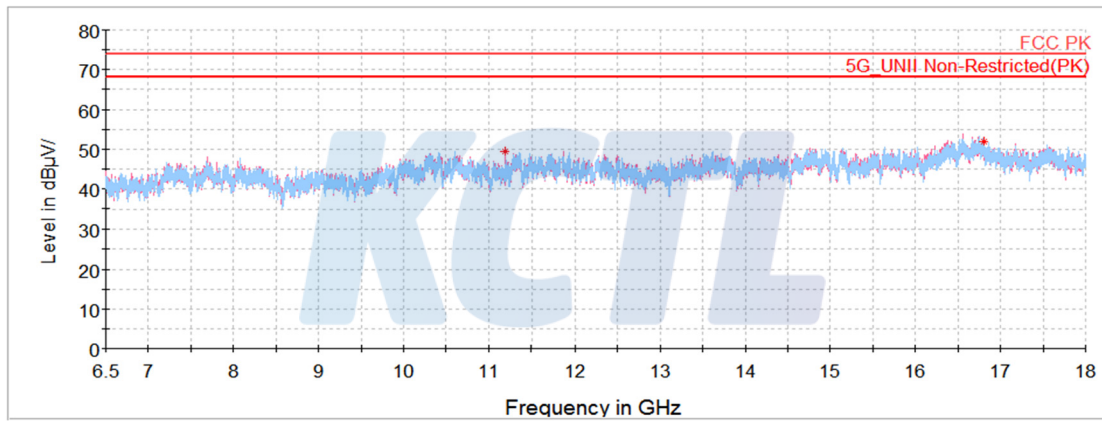
| Frequency (MHz) | Pol. (V/H) | Reading (dB(μ V)) | Ant. Factor (dB) | Amp.+Cable (dB) | DCCF (dB) | Result (dB(μ V/m)) | Limit (dB(μ V/m)) | Margin (dB) |
|--|---------------|---------------------------|---------------------|--------------------|--------------|----------------------------|---------------------------|----------------|
| Peak data | | | | | | | | |
| 1 397.55 ¹⁾ | H | 71.38 | 27.14 | -50.39 | - | 48.13 | 74.00 | 25.87 |
| 11 199.91 ¹⁾ | V | 61.47 | 38.06 | -50.08 | - | 49.45 | 74.00 | 24.55 |
| 16 799.33 | H | 56.13 | 41.40 | -45.78 | - | 51.75 | 68.20 | 16.45 |
| Average Data | | | | | | | | |
| No spurious emissions were detected within 20 dB of the limit. | | | | | | | | |

KCTL

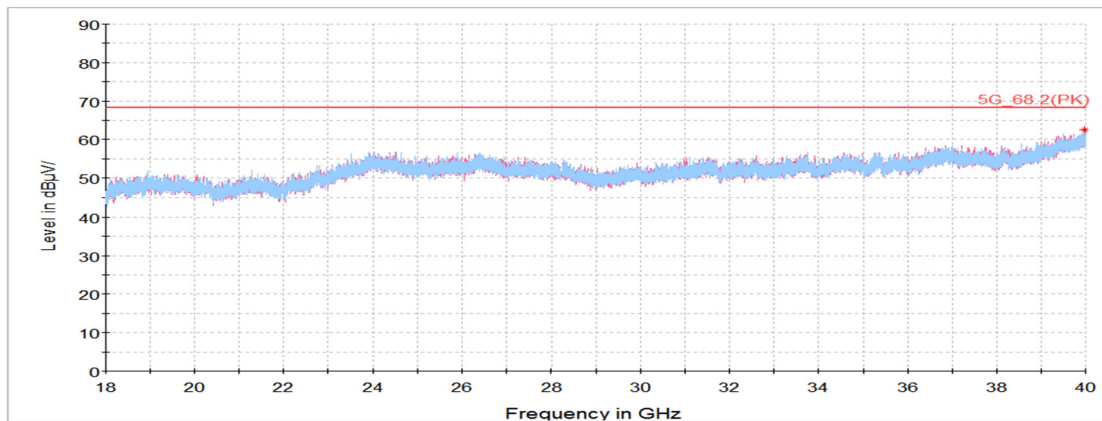
Horizontal/Vertical for 1 GHz ~ 6.5 GHz



Horizontal/Vertical for 6.5 GHz ~ 18 GHz



Horizontal/Vertical for 18 GHz ~ 40 GHz



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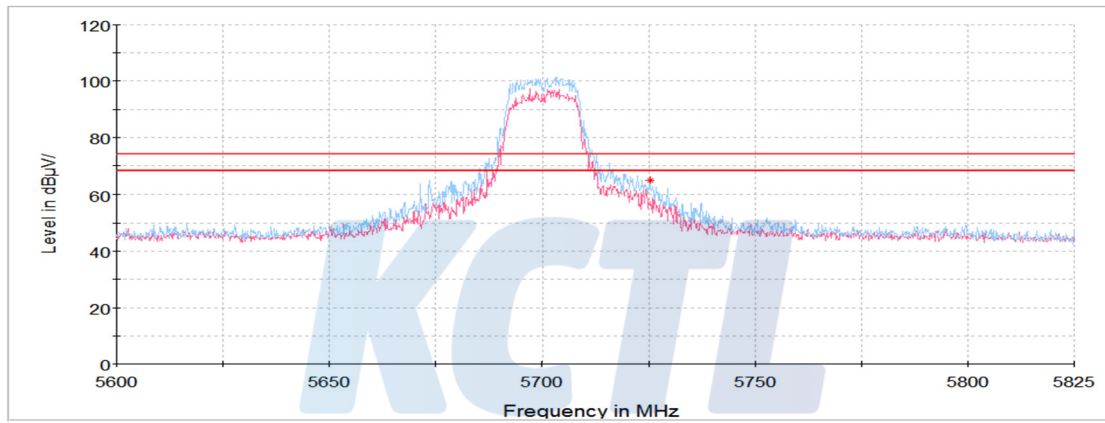
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KCTL

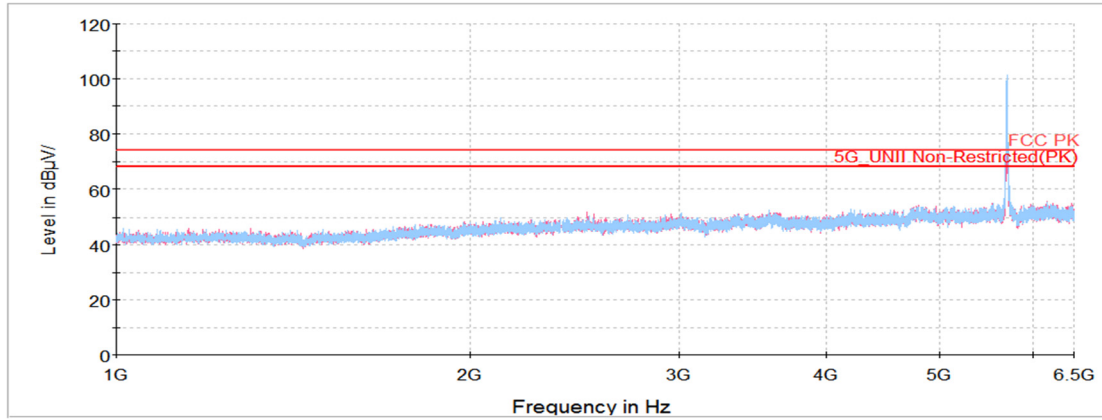
Highest Channel (5 700 MHz)

| Frequency (MHz) | Pol. (V/H) | Reading (dB(μ V)) | Ant. Factor (dB) | Amp.+Cable (dB) | DCCF (dB) | Result (dB(μ V/m)) | Limit (dB(μ V/m)) | Margin (dB) |
|--|---------------|---------------------------|---------------------|--------------------|--------------|----------------------------|---------------------------|----------------|
| Peak data | | | | | | | | |
| 5 725.19 | H | 55.72 | 35.07 | -25.92 | - | 64.87 | 68.20 | 3.33 |
| 11 399.72 ¹⁾ | V | 54.54 | 37.94 | -50.19 | - | 42.29 | 74.00 | 31.71 |
| 17 100.48 | V | 52.43 | 41.26 | -47.26 | - | 46.43 | 68.20 | 21.77 |
| Average Data | | | | | | | | |
| No spurious emissions were detected within 20 dB of the limit. | | | | | | | | |

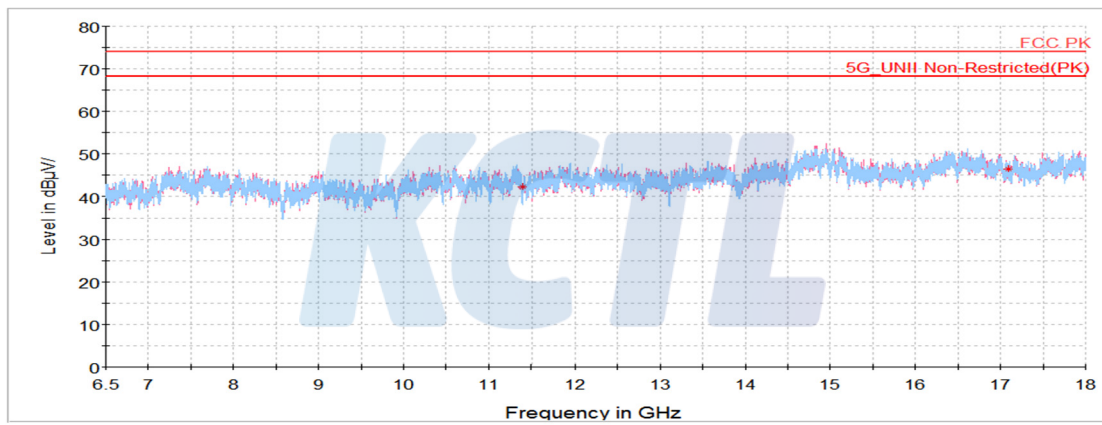
Horizontal/Vertical for Band-edge



Horizontal/Vertical for 1 GHz ~ 6.5 GHz



Horizontal/Vertical for 6.5 GHz ~ 18 GHz



Horizontal/Vertical for 18 GHz ~ 40 GHz

