

**KCTL Inc.**

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

Report No.:  
KR20-SRF0044

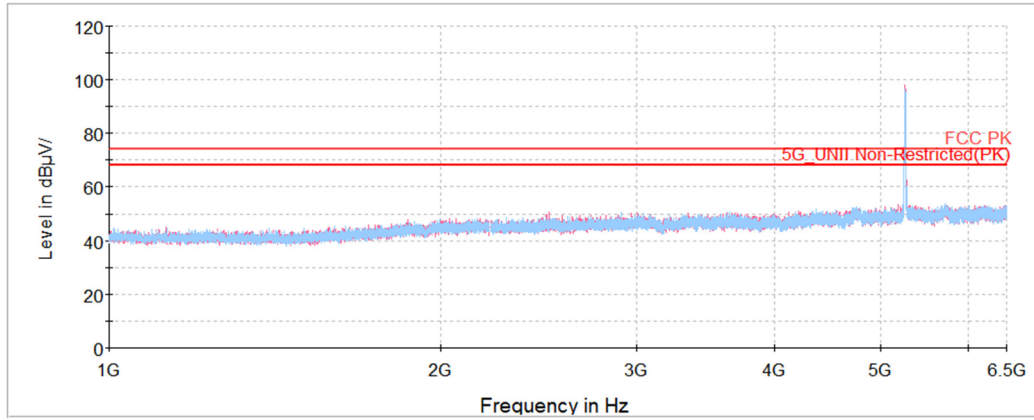
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**KCTL****802.11ac VHT20 UNII-2A****Lowest Channel (5 260 MHz)**

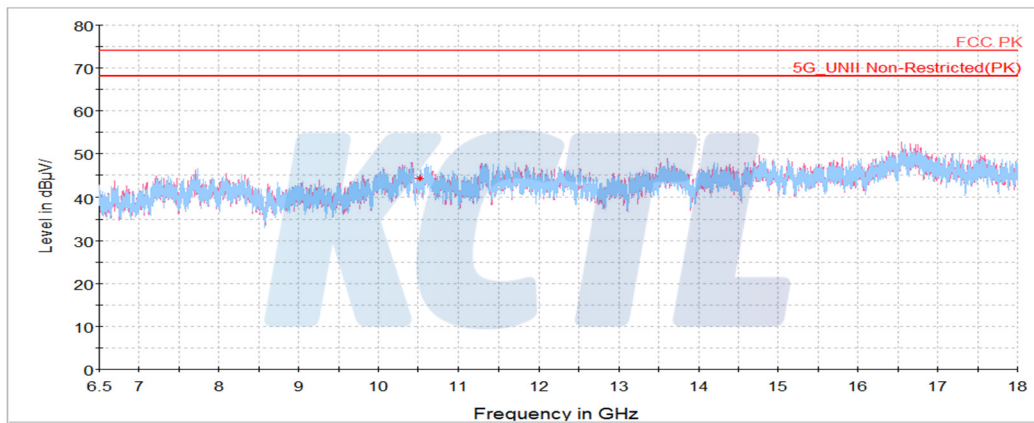
Frequency	Pol.	Reading	Ant. Factor	Amp.+Cable	DCCF	Result	Limit	Margin
(MHz)	(V/H)	(dB( $\mu$ V))	(dB)	(dB)	(dB)	(dB( $\mu$ V/m))	(dB( $\mu$ V/m))	(dB)
<b>Peak data</b>								
10519.97	H	55.05	37.41	-48.21		44.25	68.20	23.95
<b>Average Data</b>								
No spurious emissions were detected within 20 dB of the limit								

**KCTL**

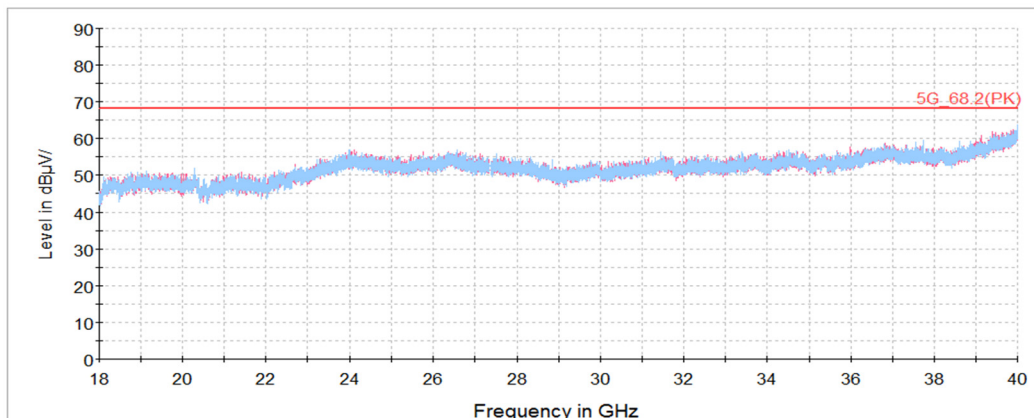
**Horizontal/Vertical for 1 GHz ~ 6.5 GHz**



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



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



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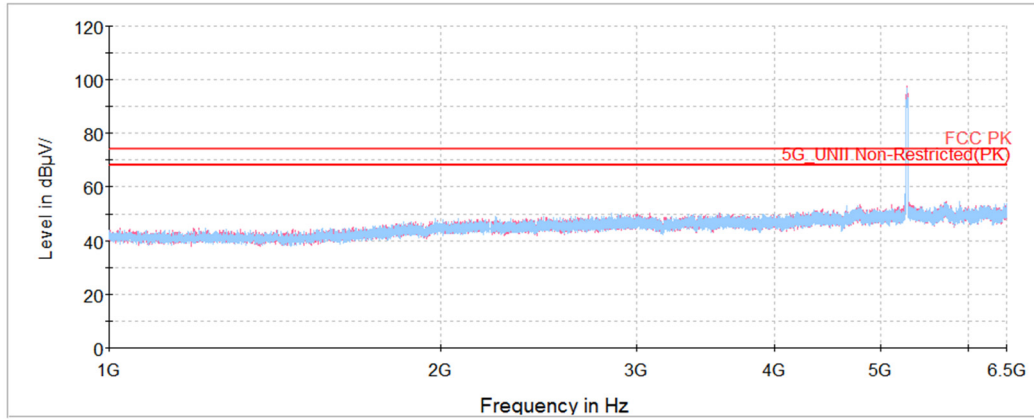
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**KCTL****Middle Channel (5 280 MHz)**

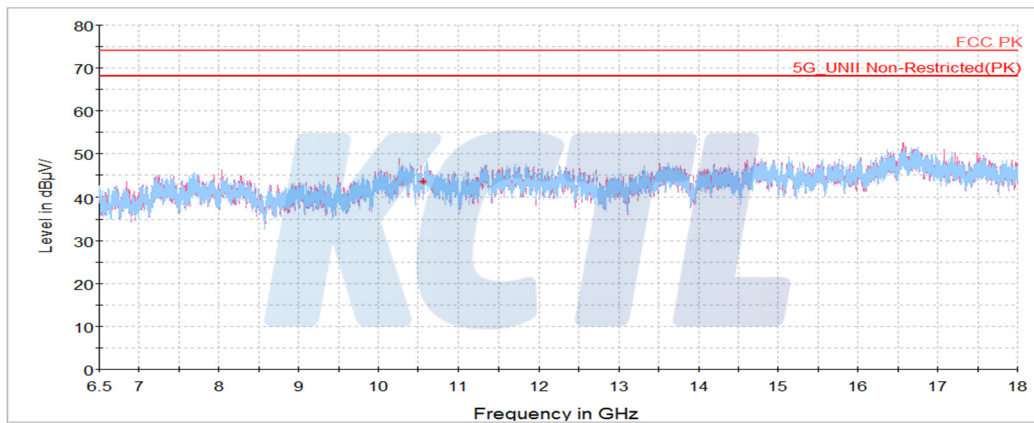
Frequency	Pol.	Reading	Ant. Factor	Amp.+Cable	DCCF	Result	Limit	Margin
(MHz)	(V/H)	(dB( $\mu$ V))	(dB)	(dB)	(dB)	(dB( $\mu$ V/m))	(dB( $\mu$ V/m))	(dB)
<b>Peak data</b>								
10 560.22	H	54.56	37.44	-48.47	-	43.53	68.20	24.67
<b>Average Data</b>								
No spurious emissions were detected within 20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

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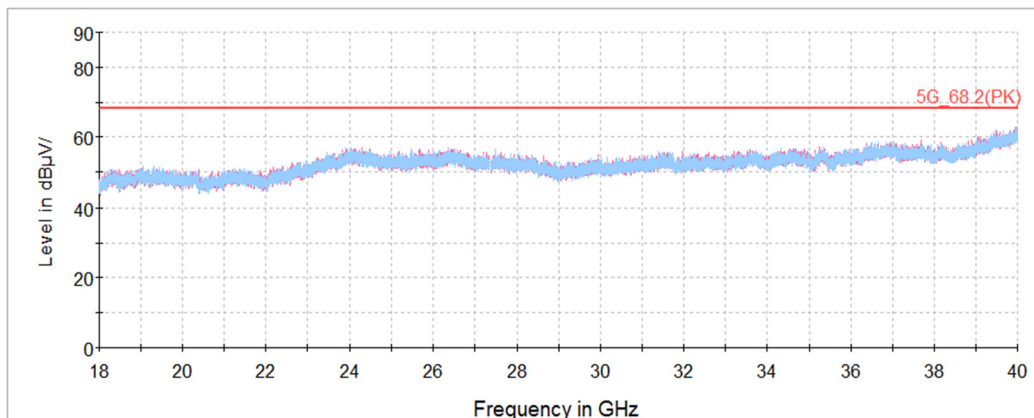
**Horizontal/Vertical for 1 GHz ~ 6.5 GHz**



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



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



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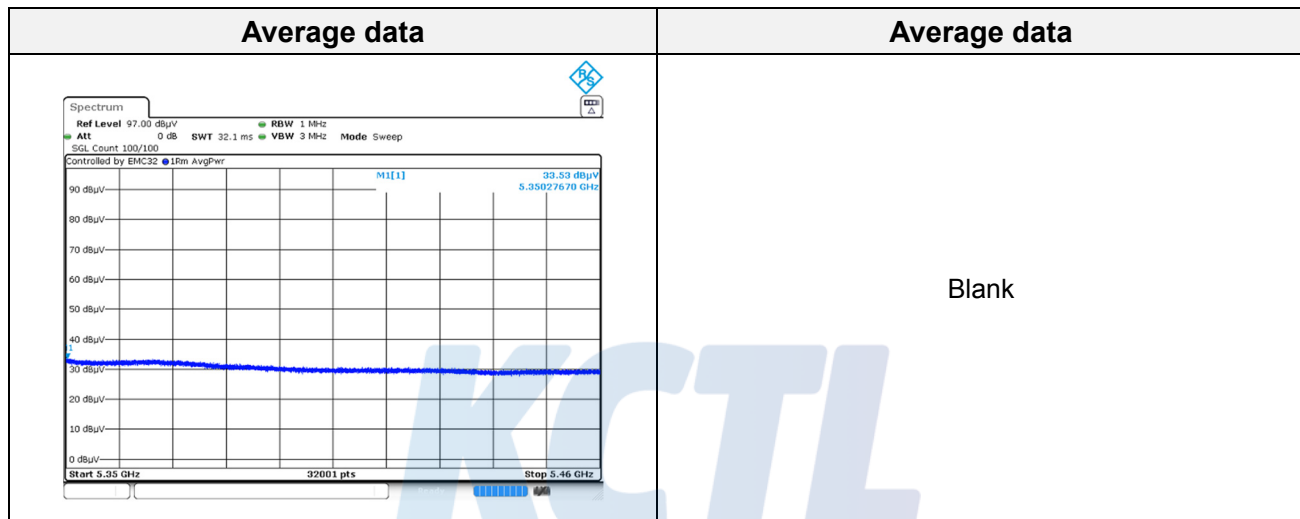
Report No.:  
KR20-SRF0044

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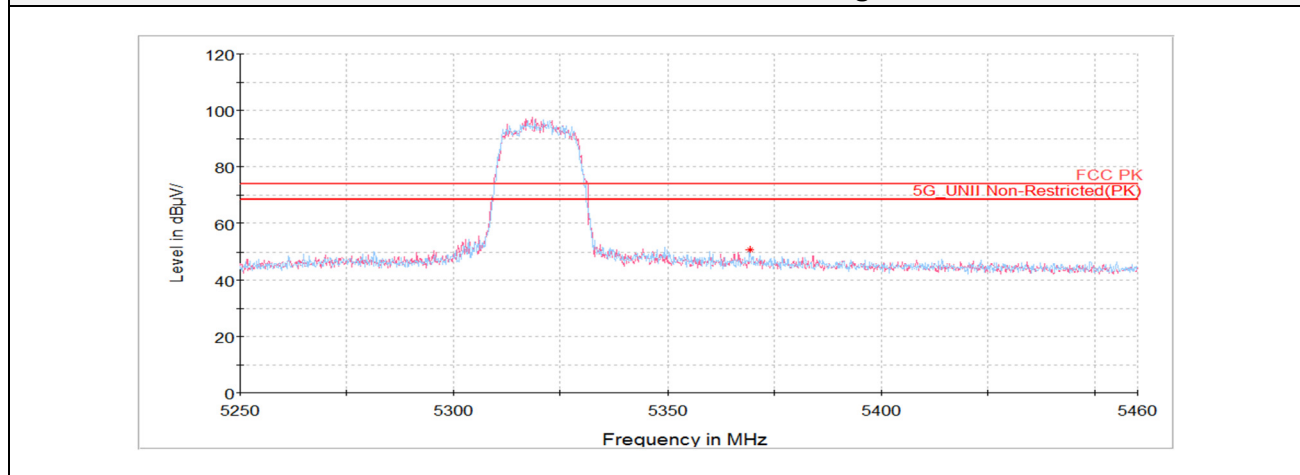


## Highest Channel (5 320 MHz)

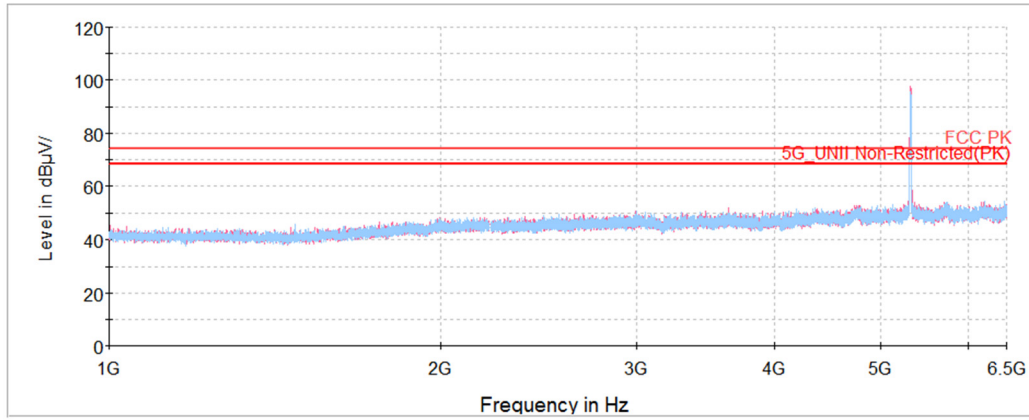
Frequency	Pol.	Reading	Ant. Factor	Amp.+Cable	DCCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(μV))	(dB)	(dB)	(dB)	(dB(μV/m))	(dB(μV/m))	(dB)
<b>Peak data</b>								
5 350.28 <sup>1)</sup>	H	43.20	34.32	-26.84	-	50.68	74.00	23.32
10 639.28 <sup>1)</sup>	V	58.20	37.48	-49.00	-	46.68	74.00	27.32
<b>Average Data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



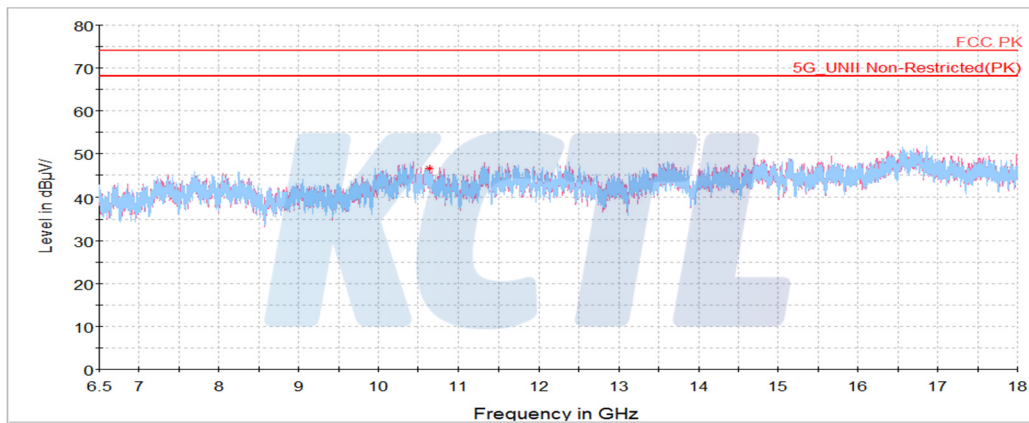
## Horizontal/Vertical for Band-edge



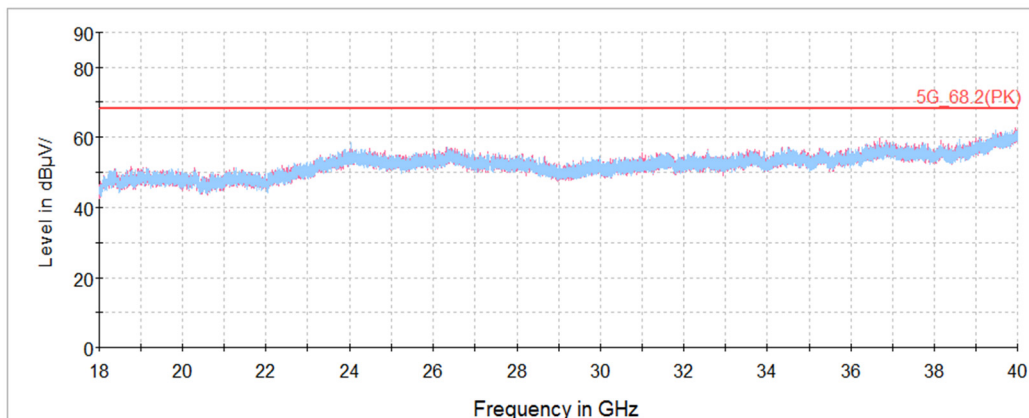
**Horizontal/Vertical for 1 GHz ~ 6.5 GHz**



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



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



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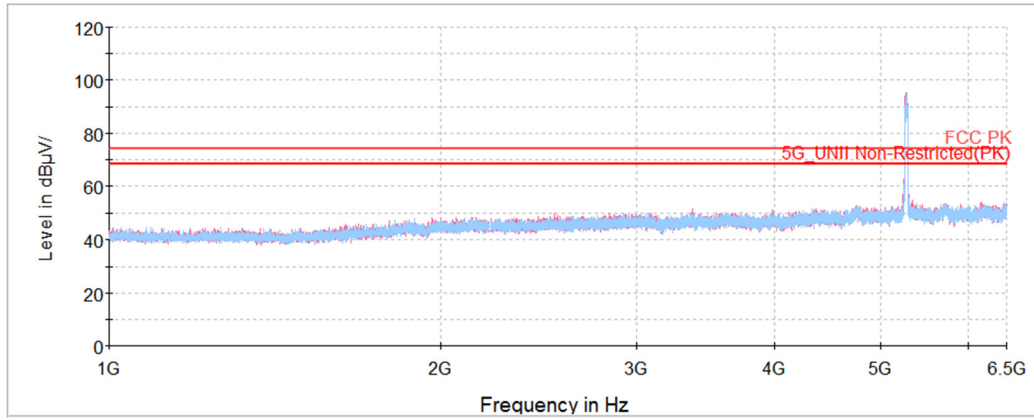
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**KCTL****802.11ac VHT40 UNII-2A****Lowest Channel (5 270 MHz)**

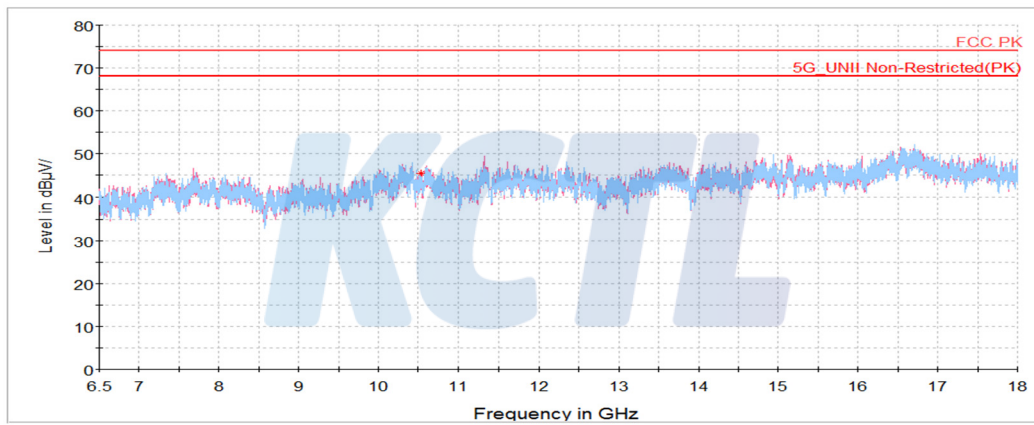
Frequency	Pol.	Reading	Ant. Factor	Amp.+Cable	DCCF	Result	Limit	Margin
(MHz)	(V/H)	(dB( $\mu$ V))	(dB)	(dB)	(dB)	(dB( $\mu$ V/m))	(dB( $\mu$ V/m))	(dB)
<b>Peak data</b>								
10 539.73	H	56.44	37.42	-48.34	-	45.52	68.20	22.68
<b>Average Data</b>								
No spurious emissions were detected within 20 dB of the limit.								

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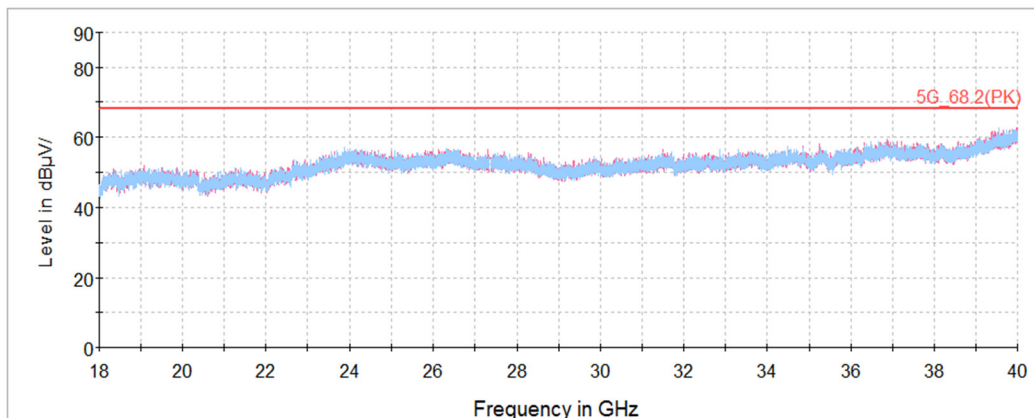
**Horizontal/Vertical for 1 GHz ~ 6.5 GHz**



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



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





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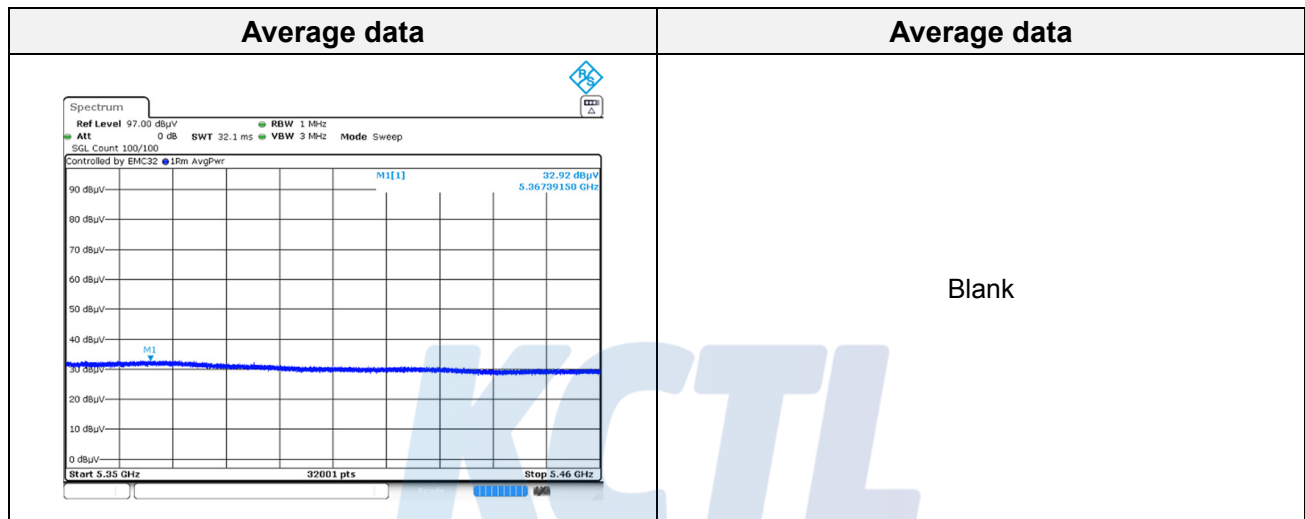
Report No.:  
KR20-SRF0044

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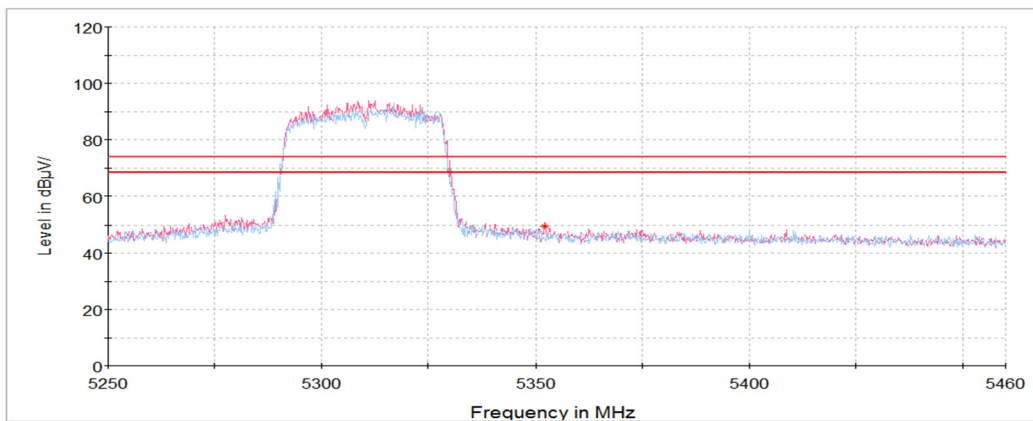


## Highest Channel (5 310 MHz)

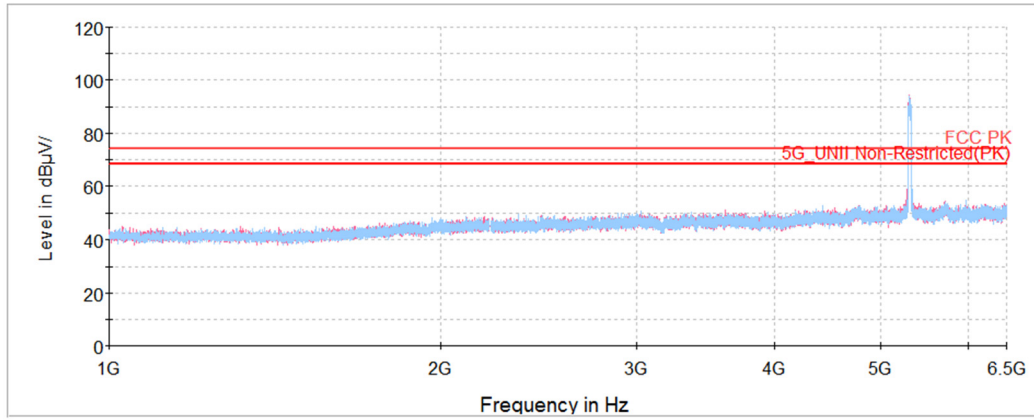
Frequency	Pol.	Reading	Ant. Factor	Amp.+Cable	DCCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(μV))	(dB)	(dB)	(dB)	(dB(μV/m))	(dB(μV/m))	(dB)
<b>Peak data</b>								
5 367.39 <sup>1)</sup>	V	41.97	34.34	-26.80	-	49.51	74.00	24.49
10 619.88 <sup>1)</sup>	H	57.62	37.47	-48.87	-	46.22	74.00	27.78
<b>Average Data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



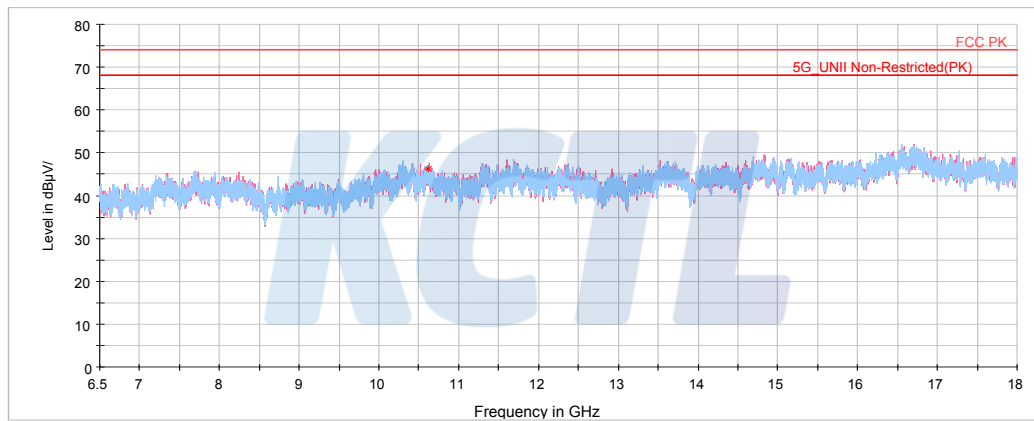
## Horizontal/Vertical for Band-edge



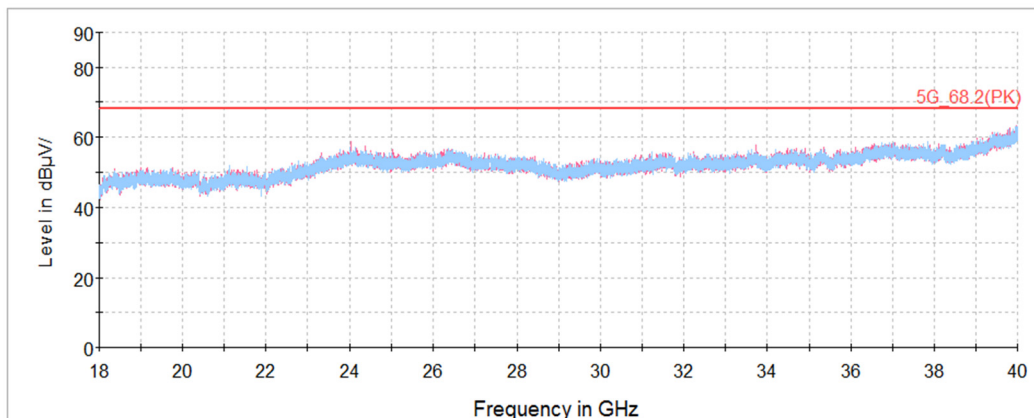
**Horizontal/Vertical for 1 GHz ~ 6.5 GHz**



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



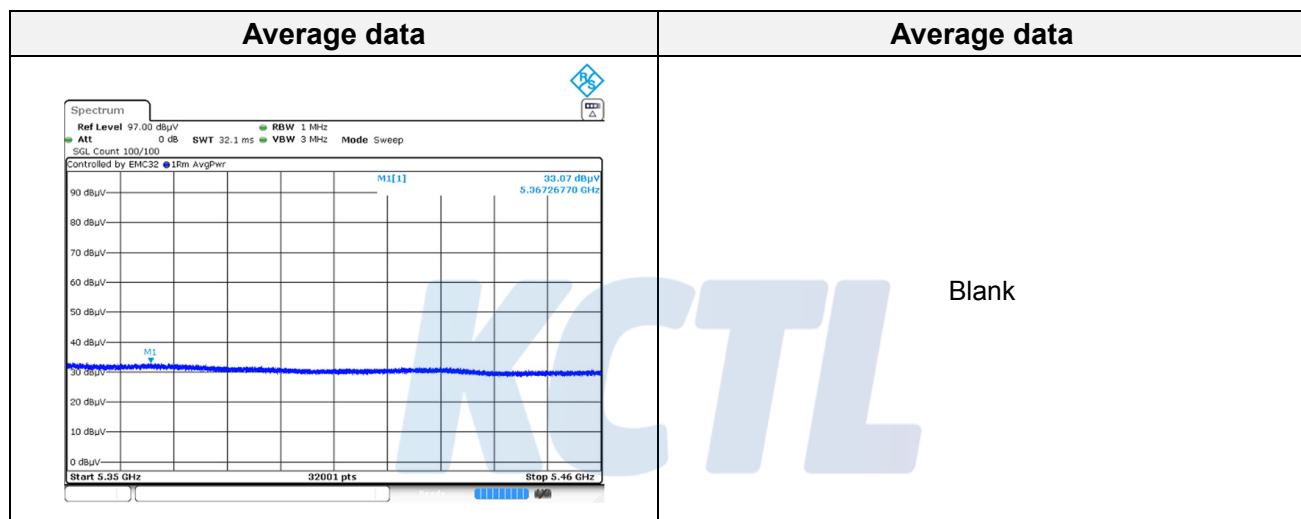
**Horizontal/Vertical for 18 GHz ~ 40 GHz**



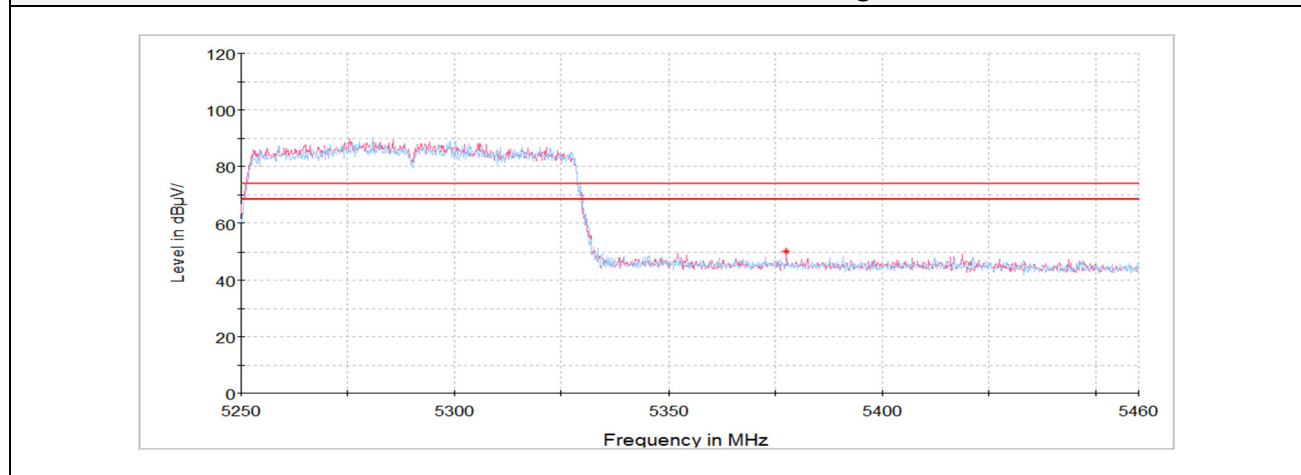
**802.11ac VHT80 UNII-2A**

**Lowest Channel (5 290 MHz)**

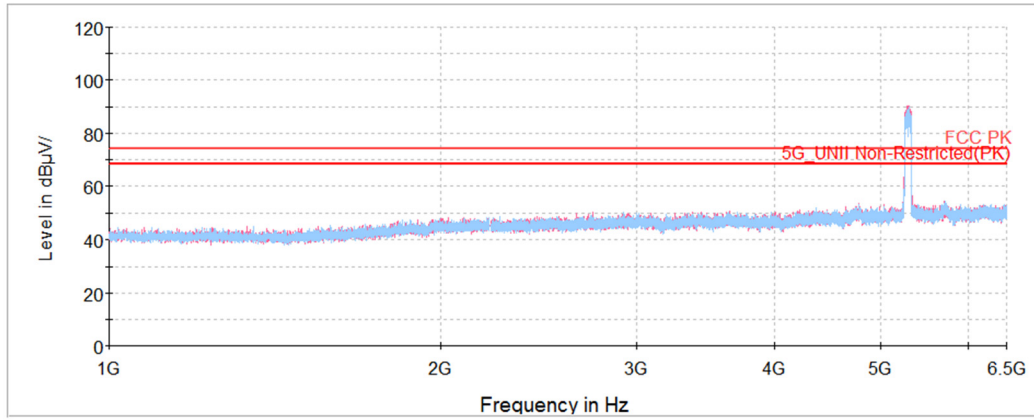
Frequency	Pol.	Reading	Ant. Factor	Amp.+Cable	DCCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(μV))	(dB)	(dB)	(dB)	(dB(μV/m))	(dB(μV/m))	(dB)
<b>Peak data</b>								
5 367.27 <sup>1)</sup>	V	42.53	34.34	-26.80	-	50.07	74.00	23.93
10 580.34	H	57.16	37.45	-48.61	-	46.00	68.20	22.20
<b>Average Data</b>							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



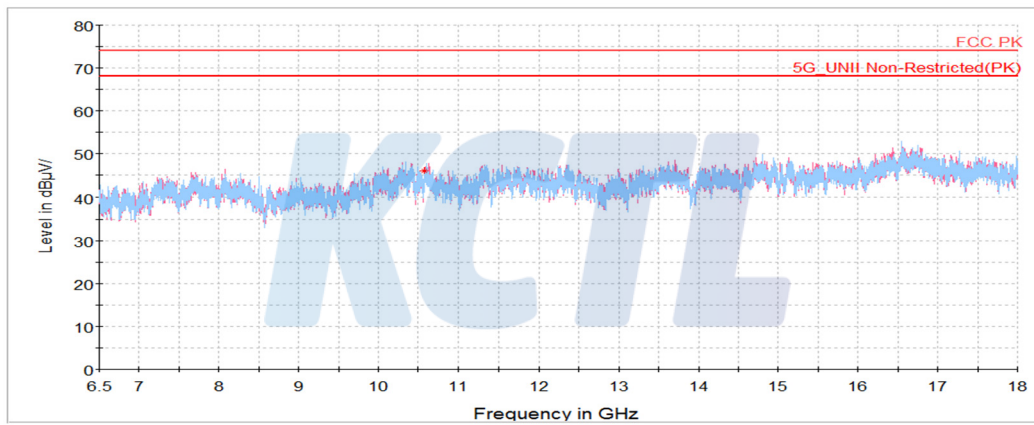
**Horizontal/Vertical for Band-edge**



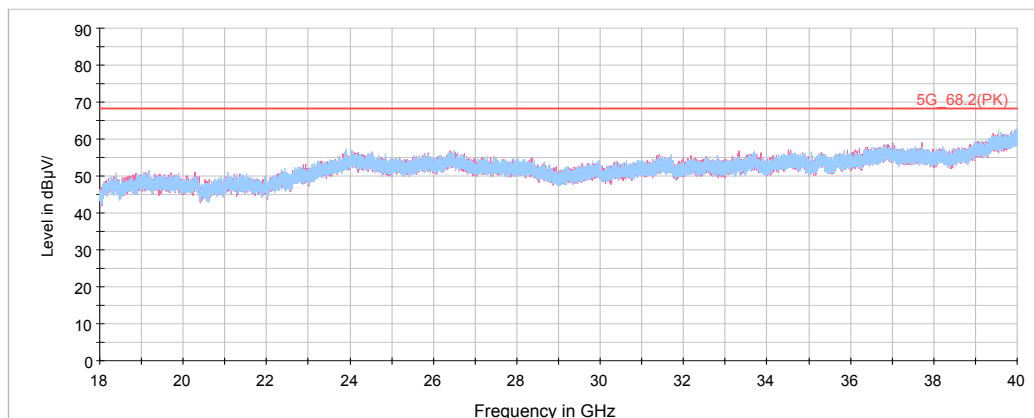
**Horizontal/Vertical for 1 GHz ~ 6.5 GHz**



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



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



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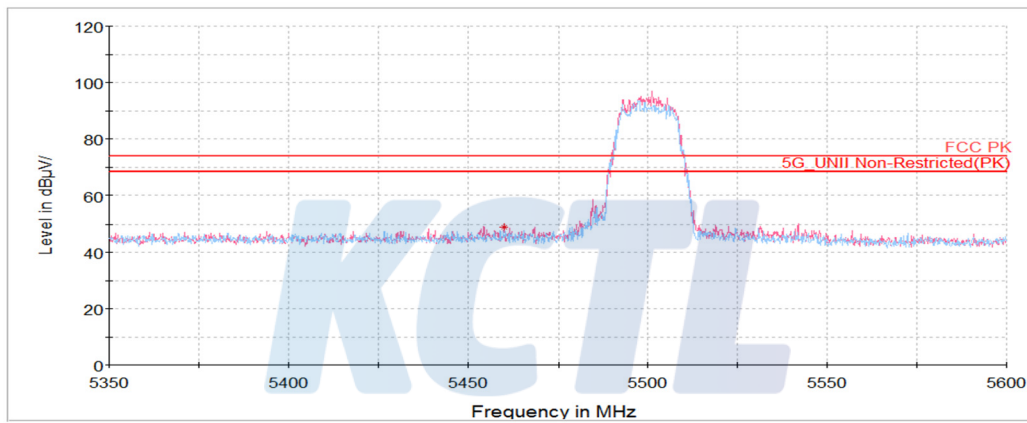
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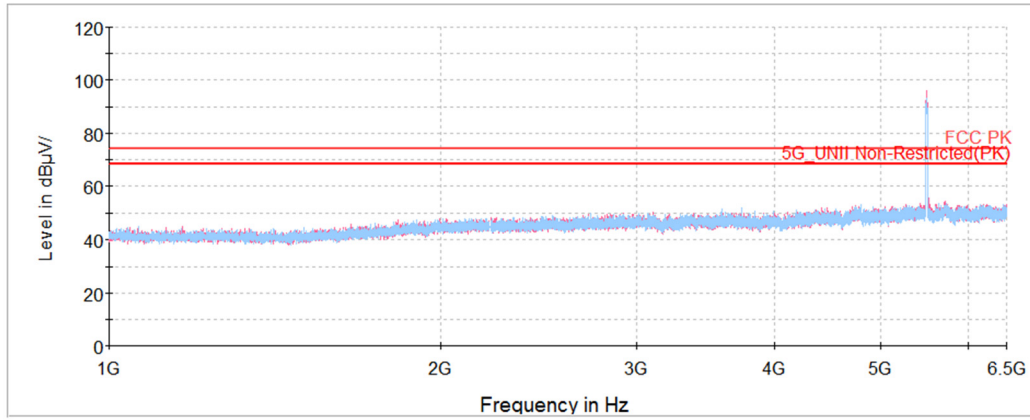
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**KCTL****802.11a UNII-2C****Lowest Channel (5 500 MHz)**

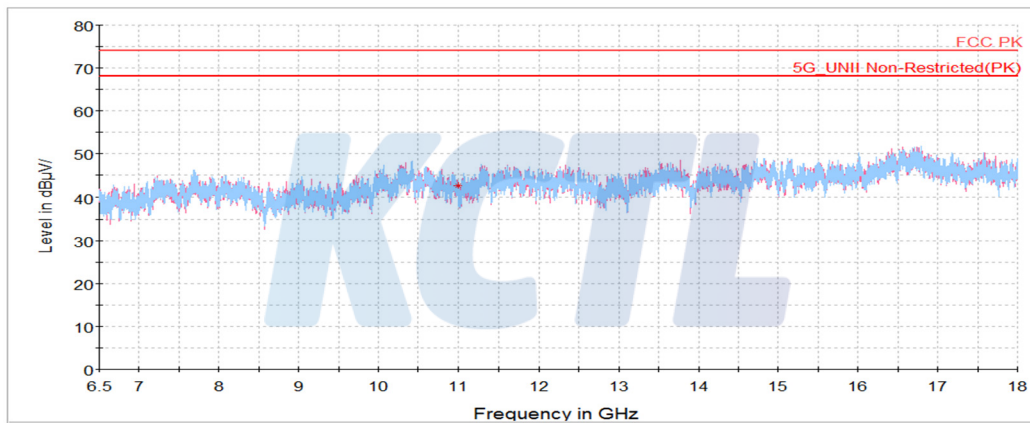
Frequency (MHz)	Pol. (V/H)	Reading (dB( $\mu$ V))	Ant. Factor (dB)	Amp.+Cable (dB)	DCCF (dB)	Result (dB( $\mu$ V/m))	Limit (dB( $\mu$ V/m))	Margin (dB)
<b>Peak data</b>								
5 459.81 <sup>1)</sup>	V	41.97	34.45	-27.35	-	49.07	74.00	24.93
11 000.45 <sup>1)</sup>	H	56.28	37.70	-51.38	-	42.60	74.00	31.40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

**Horizontal/Vertical for Band-edge**

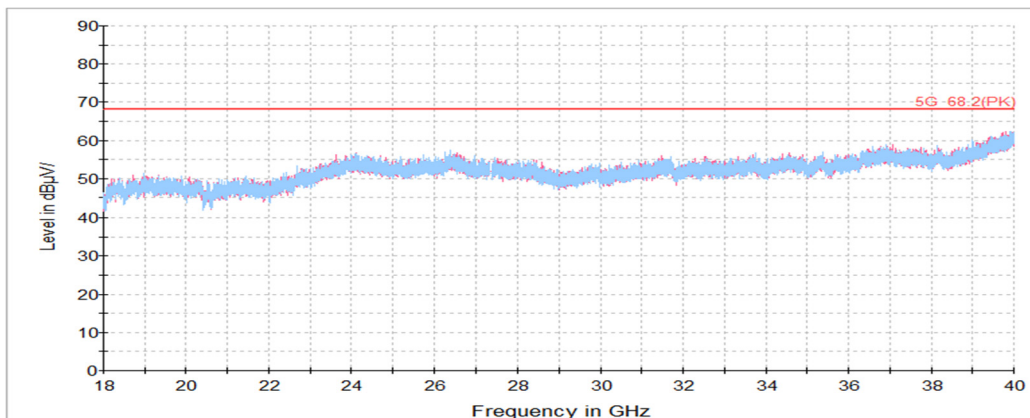
**Horizontal/Vertical for 1 GHz ~ 6.5 GHz**



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



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



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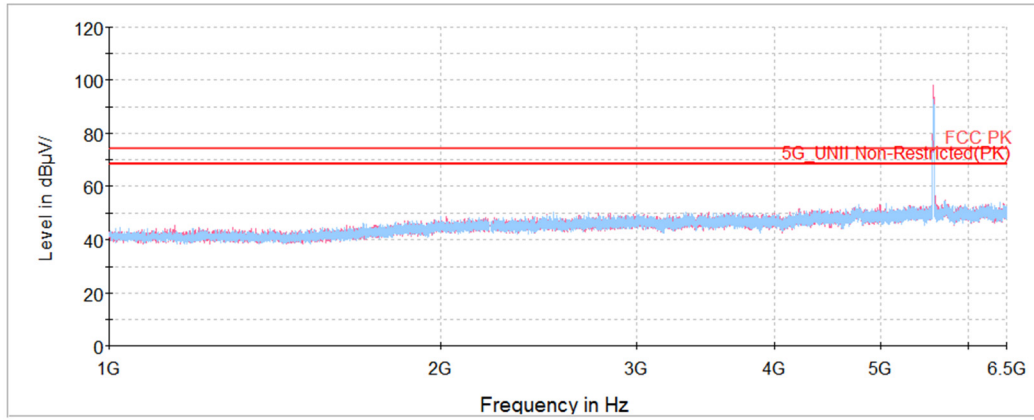
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**Middle Channel (5 580 MHz)**

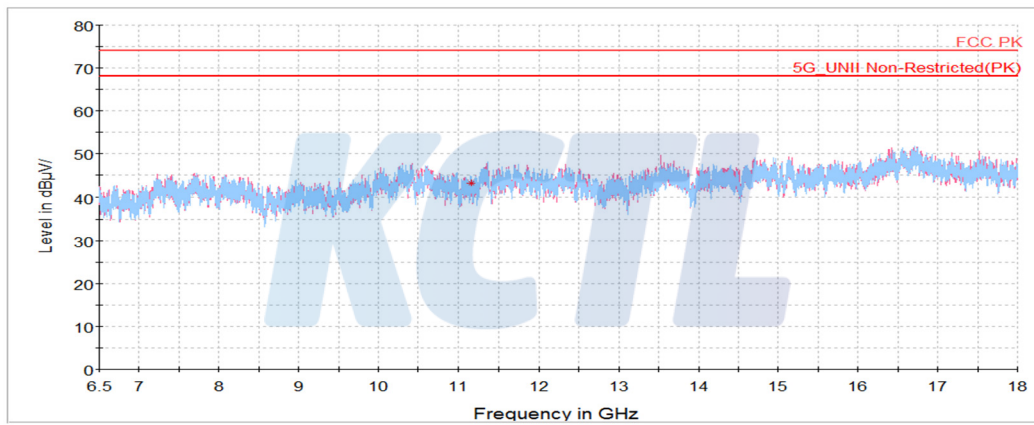
Frequency	Pol.	Reading	Ant. Factor	Amp.+Cable	DCCF	Result	Limit	Margin
(MHz)	(V/H)	(dB( $\mu V$ ))	(dB)	(dB)	(dB)	(dB( $\mu V/m$ ))	(dB( $\mu V/m$ ))	(dB)
<b>Peak data</b>								
11 160.38 <sup>1)</sup>	V	55.61	37.86	-50.34	-	43.13	74.00	30.87
<b>Average Data</b>								
No spurious emissions were detected within 20 dB of the limit.								



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



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



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

