

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-SRF0165-C

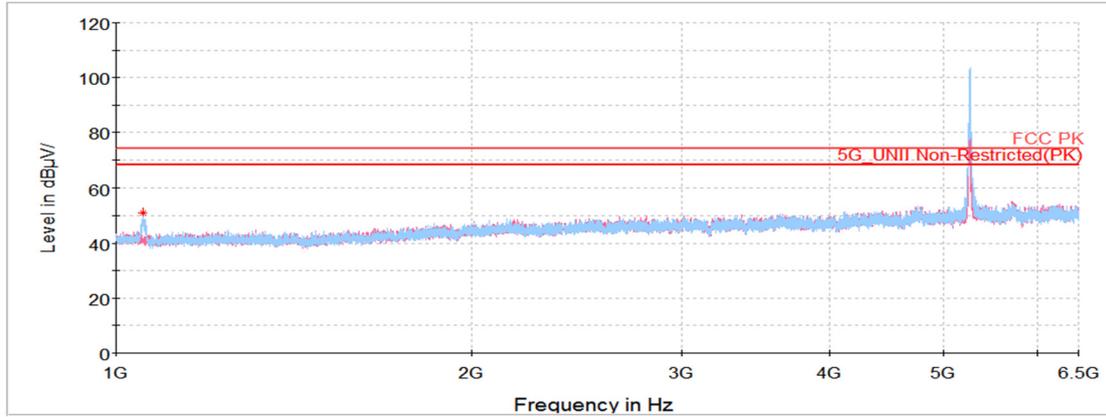
Page (122) of (220)

KCTL**802.11n HT20 UNII-2A****Lowest Channel (5 260 MHz)**

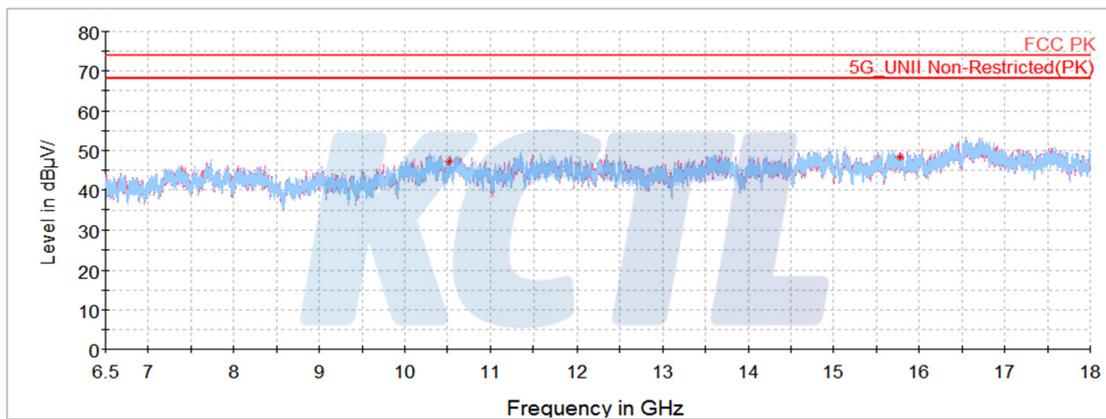
Frequency (MHz)	Pol. (V/H)	Reading (dB(μ V))	Ant. Factor (dB)	Amp.+Cable (dB)	DCCF (dB)	Result (dB(μ V/m))	Limit (dB(μ V/m))	Margin (dB)
Peak data								
1 054.49 ¹⁾	H	74.94	26.93	-50.74		51.13	74.00	22.87
10 520.69	V	57.86	37.61	-48.21		47.26	68.20	20.94
15 780.86 ¹⁾	H	56.53	39.70	-48.05		48.18	74.00	25.82
Average Data								
No spurious emissions were detected within 20 dB of the limit.								

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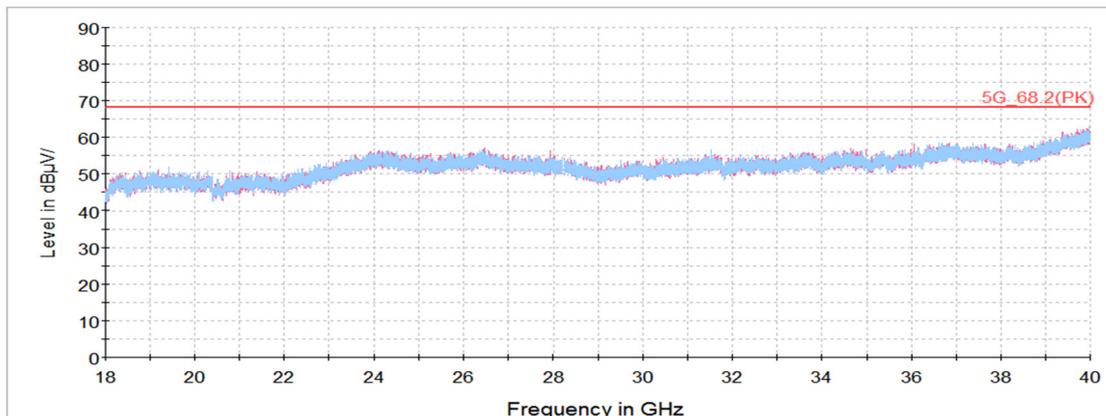
Horizontal/Vertical for 1 GHz ~ 6.5 GHz



Horizontal/Vertical for 6.5 GHz ~ 18 GHz



Horizontal/Vertical for 18 GHz ~ 40 GHz



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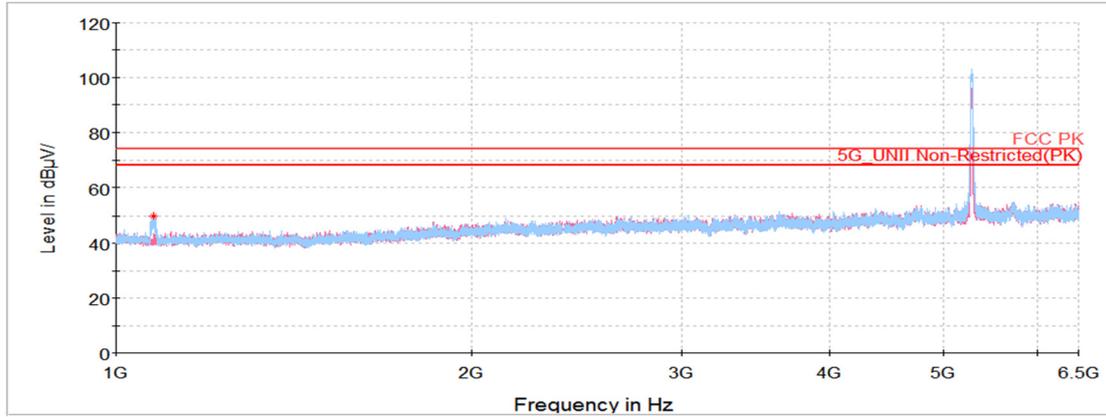
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**Middle Channel (5 280 MHz)**

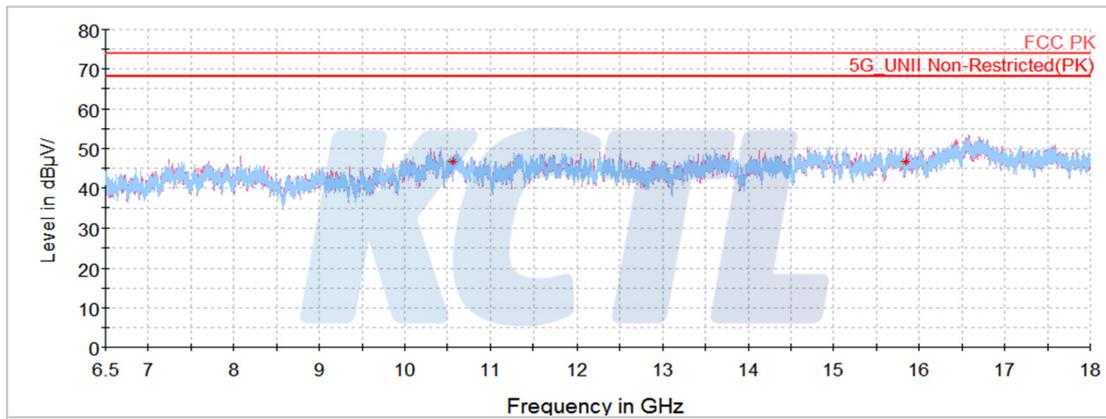
Frequency (MHz)	Pol. (V/H)	Reading (dB(μ V))	Ant. Factor (dB)	Amp.+Cable (dB)	DCCF (dB)	Result (dB(μ V/m))	Limit (dB(μ V/m))	Margin (dB)
Peak data								
1 074.94 ¹⁾	H	73.58	26.94	-50.80	-	49.72	74.00	24.28
10 560.58	V	57.54	37.64	-48.48	-	46.70	68.20	21.50
15 840.88 ¹⁾	H	54.93	39.70	-48.06	-	46.57	74.00	27.43
Average Data								
No spurious emissions were detected within 20 dB of the limit.								



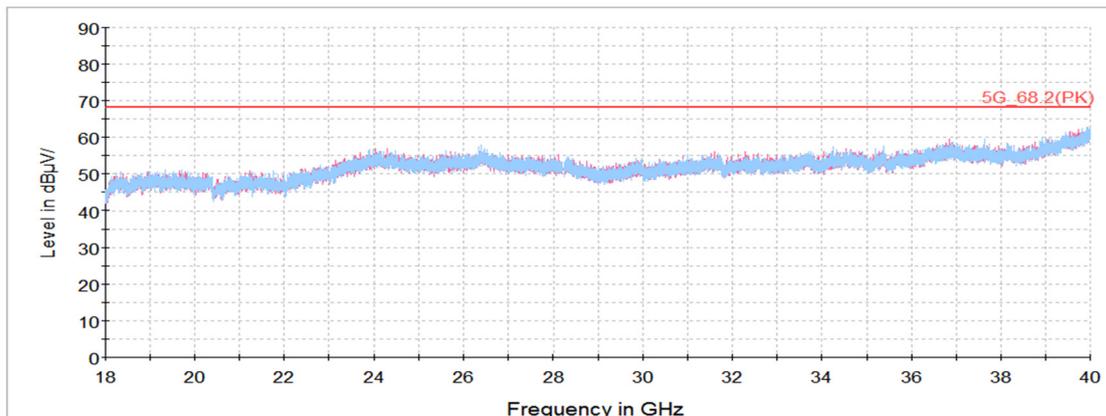
Horizontal/Vertical for 1 GHz ~ 6.5 GHz



Horizontal/Vertical for 6.5 GHz ~ 18 GHz



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Highest Channel (5 320 MHz)

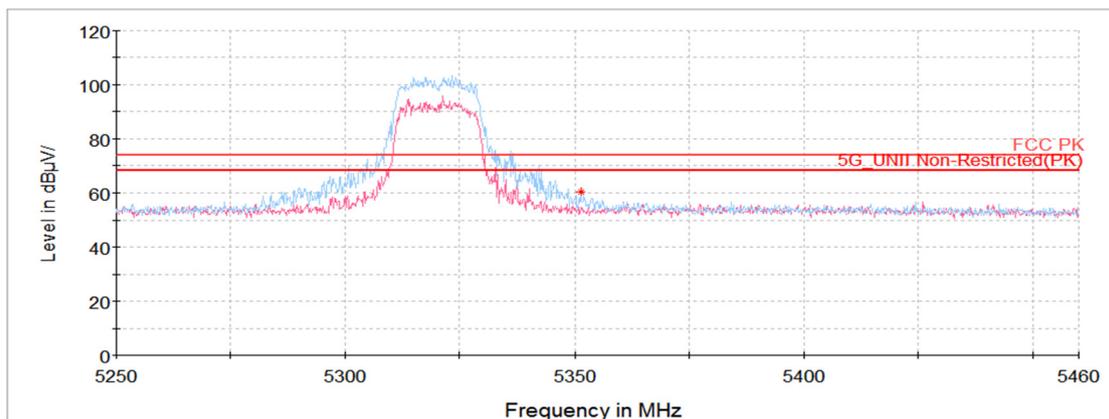
Frequency	Pol.	Reading	Ant. Factor	Amp.+Cable	DCCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(μV))	(dB)	(dB)	(dB)	(dB(μV/m))	(dB(μV/m))	(dB)
Peak data								
1 117.22 ¹⁾	H	74.55	26.97	-50.81	-	50.71	74.00	23.29
5 350.21 ¹⁾	H	52.77	34.35	-26.84	-	60.28	74.00	13.72
10 641.08 ¹⁾	H	58.79	37.68	-49.01	-	47.46	74.00	26.54
15 961.98 ¹⁾	V	56.00	39.70	-48.07	-	47.63	74.00	26.37
Average Data								
5 350.21 ¹⁾	H	42.74	34.35	-26.84	0.35	50.60	54.00	3.40

Average data

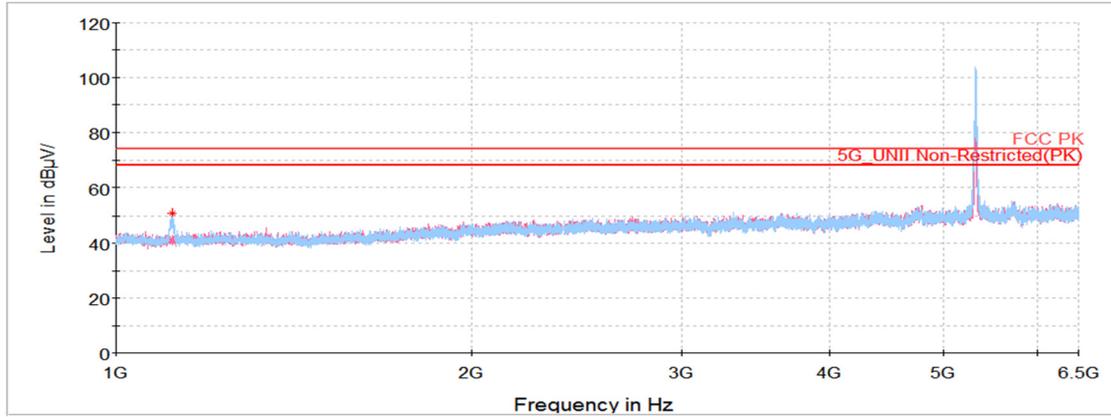


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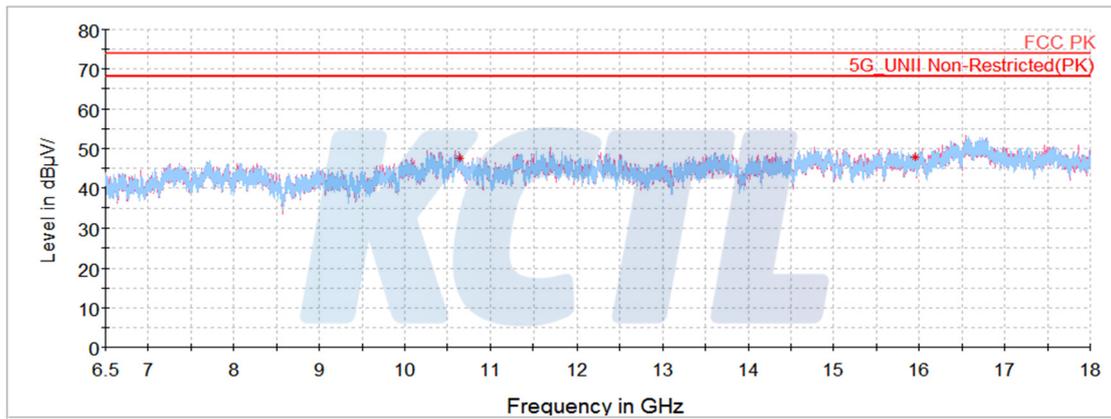
Horizontal/Vertical for Band-edge



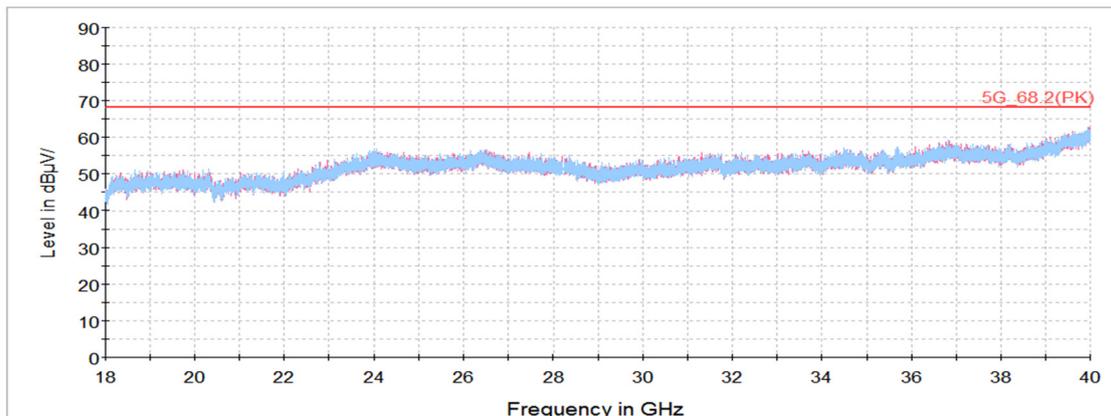
Horizontal/Vertical for 1 GHz ~ 6.5 GHz



Horizontal/Vertical for 6.5 GHz ~ 18 GHz



Horizontal/Vertical for 18 GHz ~ 40 GHz



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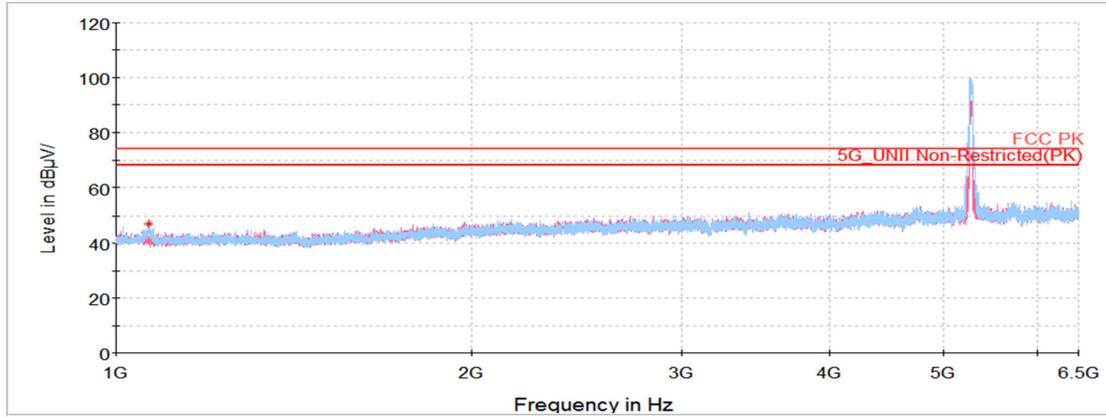
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**802.11n HT40 UNII-2A****Lowest Channel (5 270 MHz)**

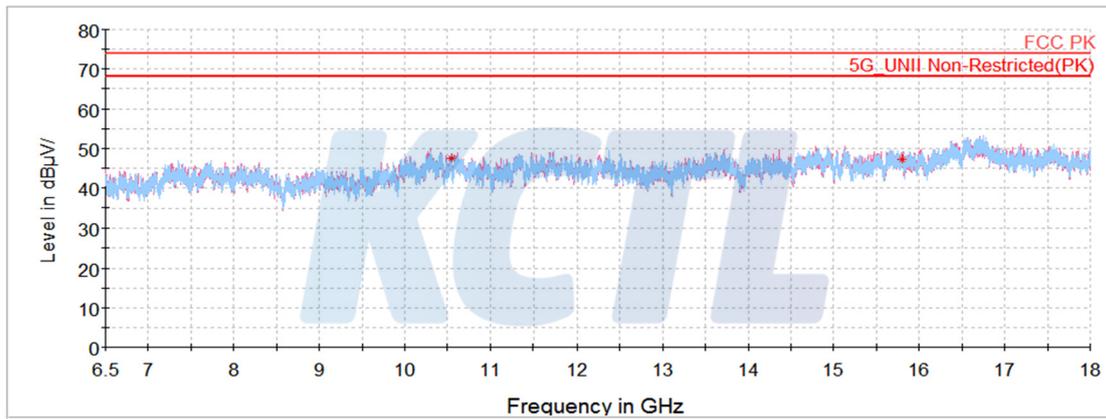
Frequency (MHz)	Pol. (V/H)	Reading (dB(μ V))	Ant. Factor (dB)	Amp.+Cable (dB)	DCCF (dB)	Result (dB(μ V/m))	Limit (dB(μ V/m))	Margin (dB)
Peak data								
1 065.66 ¹⁾	H	71.01	26.94	-50.77	-	47.18	74.00	26.82
10 541.53	H	58.13	37.62	-48.35	-	47.40	68.20	20.80
15 811.05 ¹⁾	H	55.58	39.70	-48.05	-	47.23	74.00	26.77
Average Data								
No spurious emissions were detected within 20 dB of the limit.								



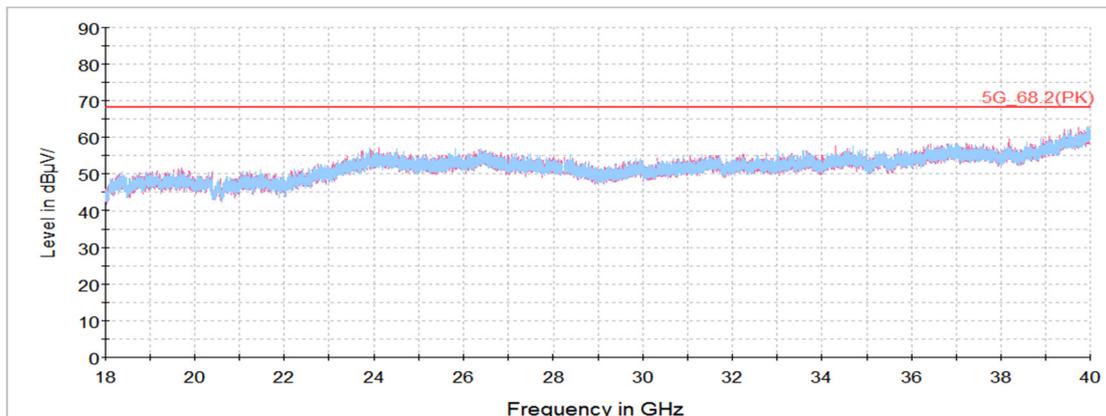
Horizontal/Vertical for 1 GHz ~ 6.5 GHz



Horizontal/Vertical for 6.5 GHz ~ 18 GHz



Horizontal/Vertical for 18 GHz ~ 40 GHz



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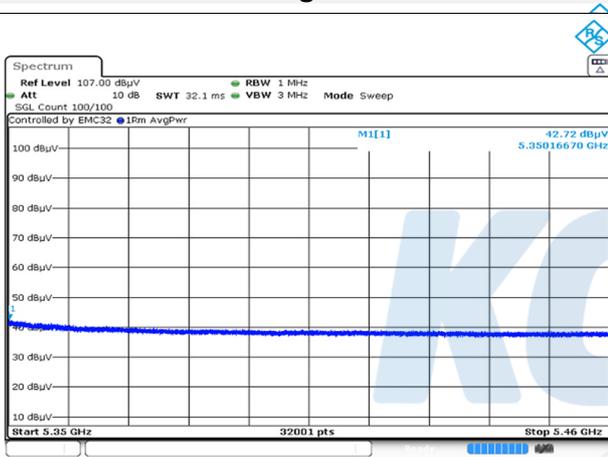
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Highest Channel (5 310 MHz)

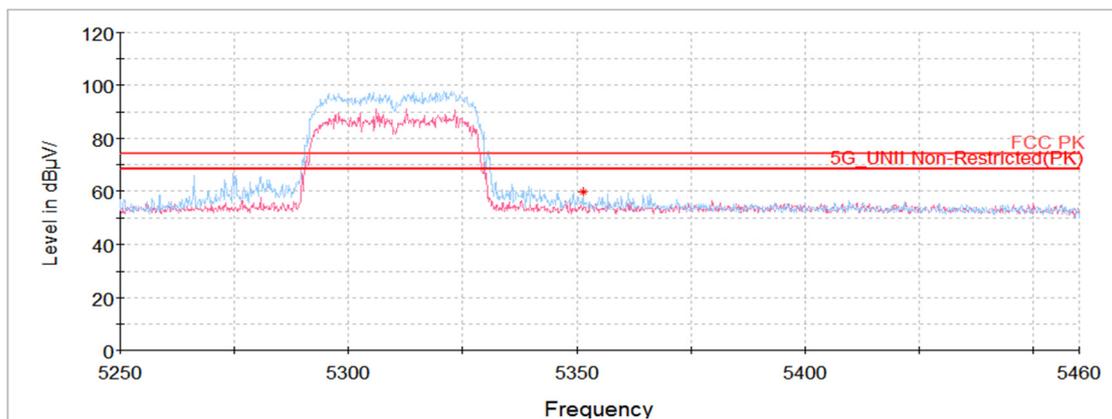
Frequency	Pol.	Reading	Ant. Factor	Amp.+Cable	DCCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(μV))	(dB)	(dB)	(dB)	(dB(μV/m))	(dB(μV/m))	(dB)
Peak data								
1 107.08 ¹⁾	H	69.54	26.96	-50.85	-	45.65	74.00	28.35
5 350.17 ¹⁾	H	52.19	34.35	-26.84	-	59.70	74.00	14.30
10 620.95 ¹⁾	V	58.86	37.67	-48.87	-	47.66	74.00	26.34
15 930.00 ¹⁾	H	54.03	39.70	-48.07	-	45.66	74.00	28.34
Average Data								
5 350.17 ¹⁾	H	42.72	34.35	-26.84	0.66	50.89	54.00	3.11

Average data

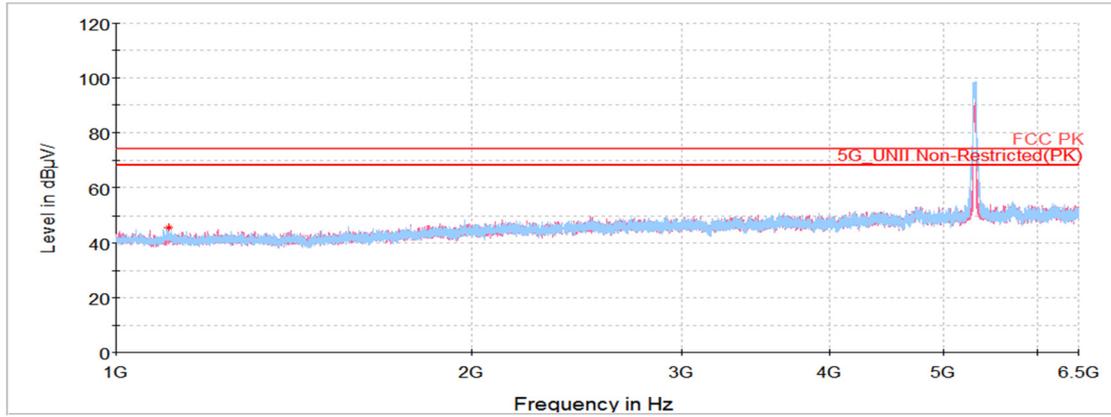


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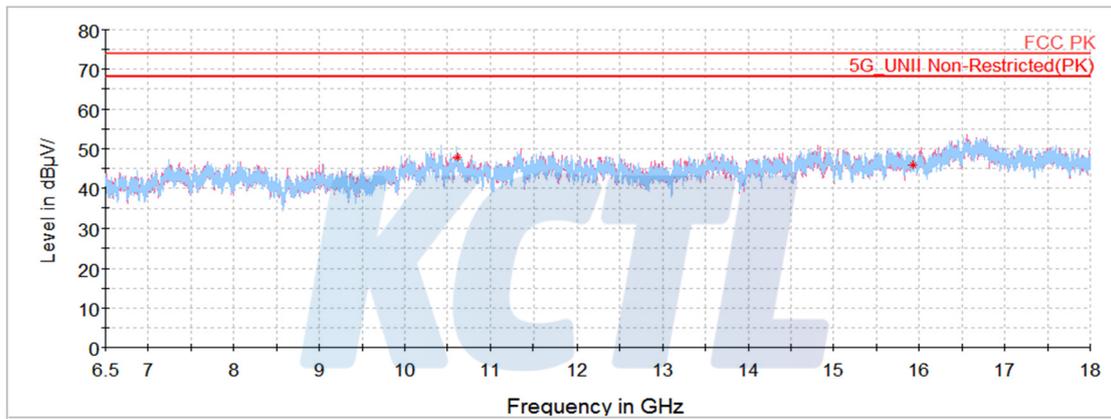
Horizontal/Vertical for Band-edge



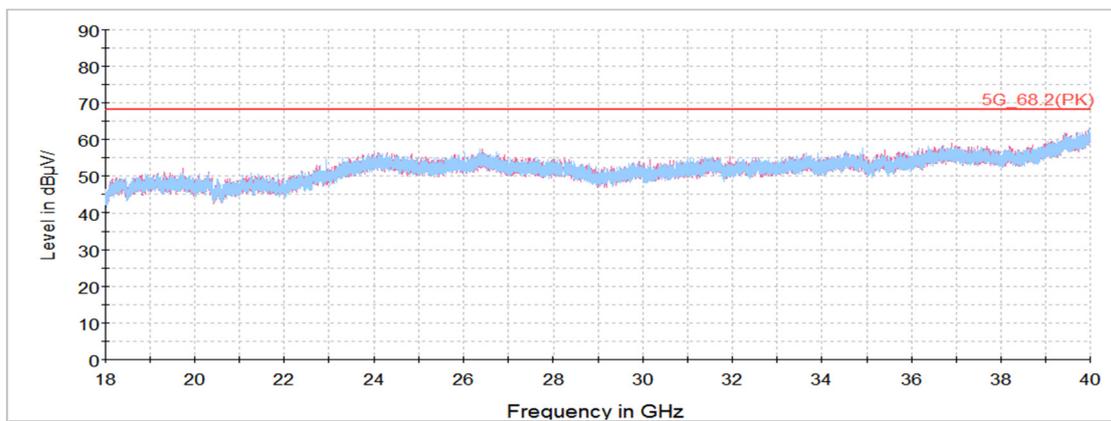
Horizontal/Vertical for 1 GHz ~ 6.5 GHz



Horizontal/Vertical for 6.5 GHz ~ 18 GHz



Horizontal/Vertical for 18 GHz ~ 40 GHz



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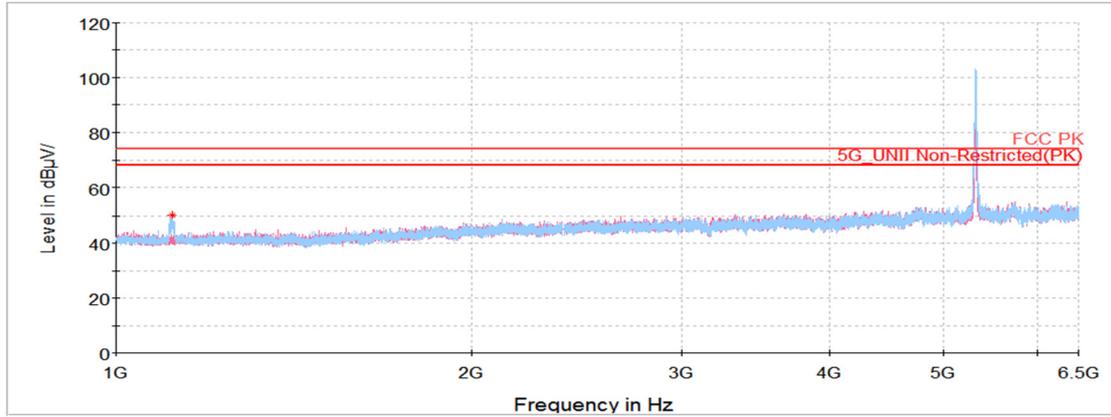
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KCTL**802.11ac VHT20 UNII-2A****Lowest Channel (5 260 MHz)**

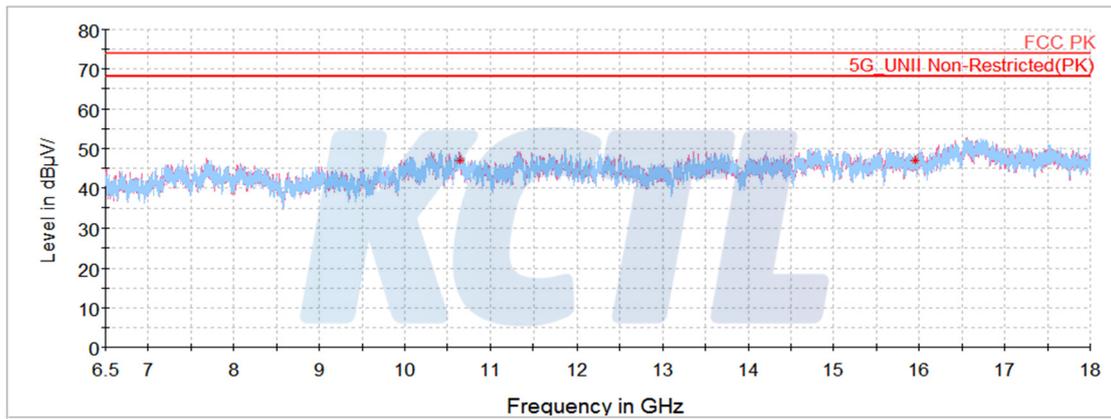
Frequency (MHz)	Pol. (V/H)	Reading (dB(μ V))	Ant. Factor (dB)	Amp.+Cable (dB)	DCCF (dB)	Result (dB(μ V/m))	Limit (dB(μ V/m))	Margin (dB)
Peak data								
1 054.96 ¹⁾	H	76.63	26.93	-50.74	-	52.82	74.00	21.18
10 520.69	V	56.64	37.61	-48.21	-	46.04	68.20	22.16
15 780.14	H	54.84	39.70	-48.05	-	46.49	74.00	27.51
Average Data								
No spurious emissions were detected within 20 dB of the limit.								

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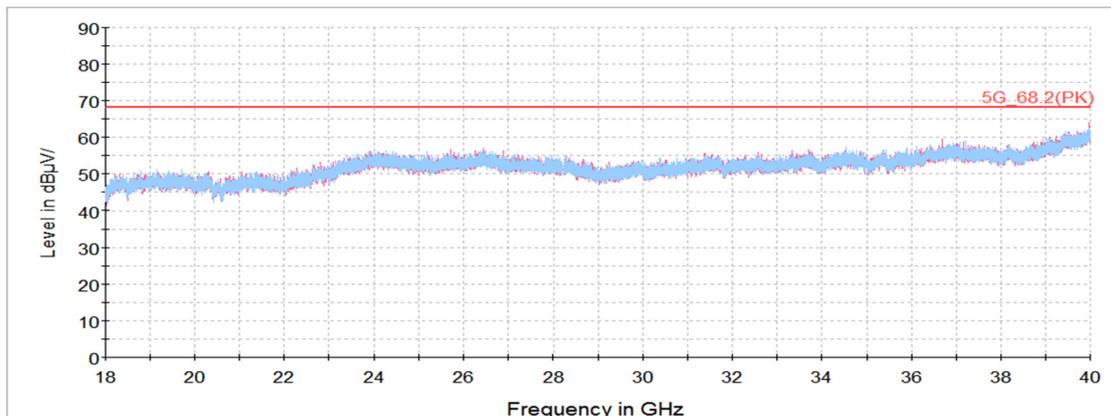
Horizontal/Vertical for 1 GHz ~ 6.5 GHz



Horizontal/Vertical for 6.5 GHz ~ 18 GHz



Horizontal/Vertical for 18 GHz ~ 40 GHz



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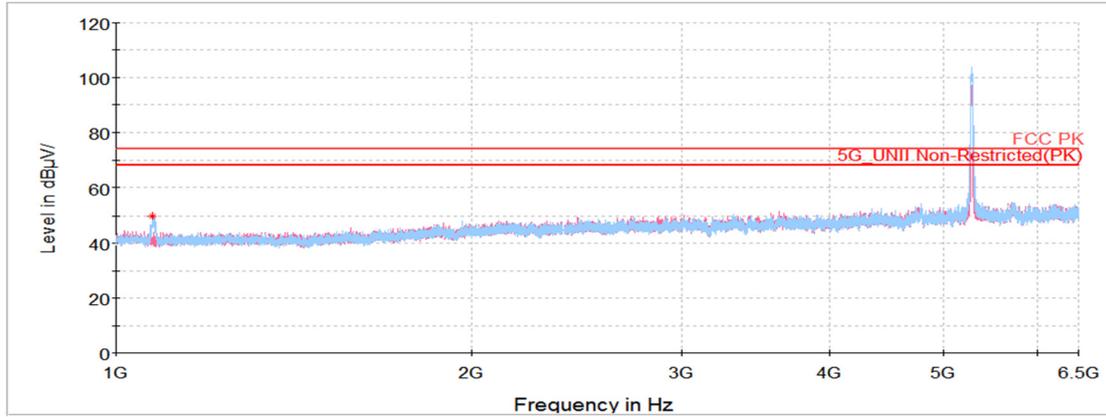
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KCTL**Middle Channel (5 280 MHz)**

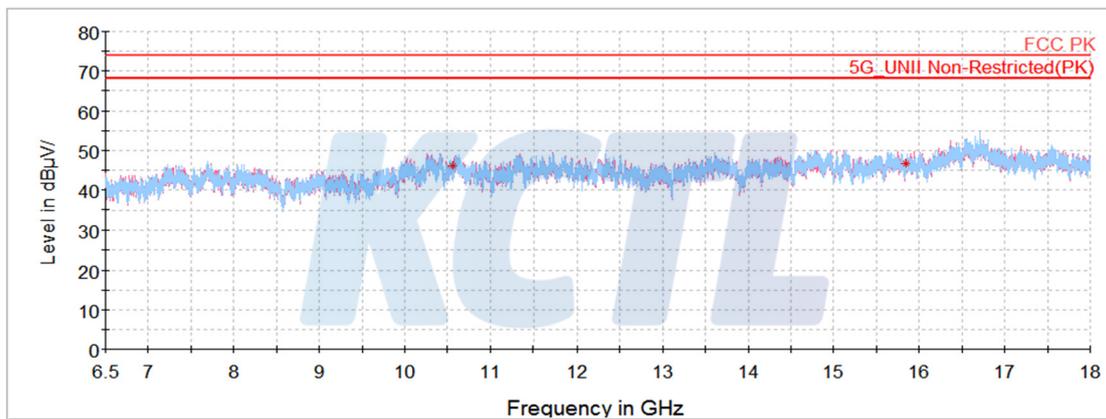
Frequency (MHz)	Pol. (V/H)	Reading (dB(μ V))	Ant. Factor (dB)	Amp.+Cable (dB)	DCCF (dB)	Result (dB(μ V/m))	Limit (dB(μ V/m))	Margin (dB)
Peak data								
1 074.25 ¹⁾	H	73.57	26.94	-50.80	-	49.71	74.00	24.29
10 560.58	V	57.03	37.64	-48.48	-	46.19	68.20	22.01
15 840.52 ¹⁾	V	54.91	39.70	-48.06	-	46.55	74.00	27.45
Average Data								
No spurious emissions were detected within 20 dB of the limit.								

KCTL

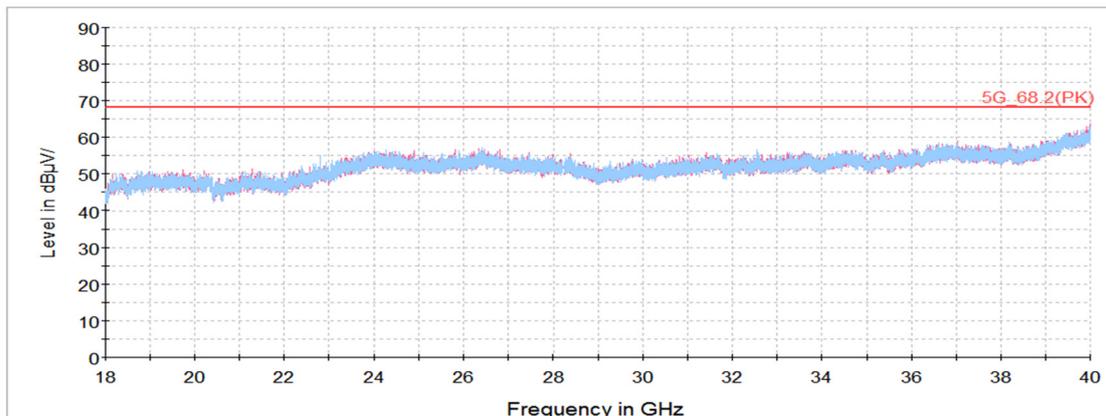
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Horizontal/Vertical for 6.5 GHz ~ 18 GHz



Horizontal/Vertical for 18 GHz ~ 40 GHz



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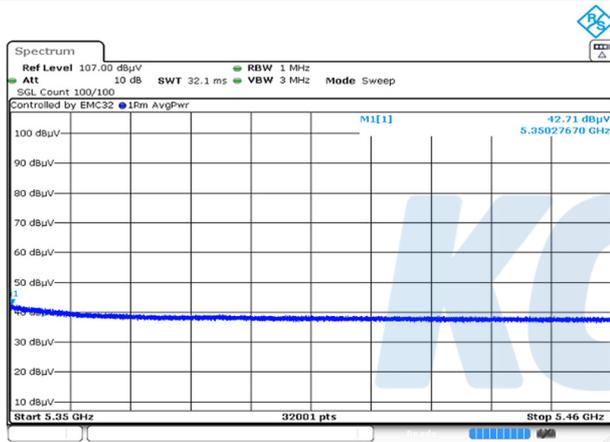
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Highest Channel (5 320 MHz)

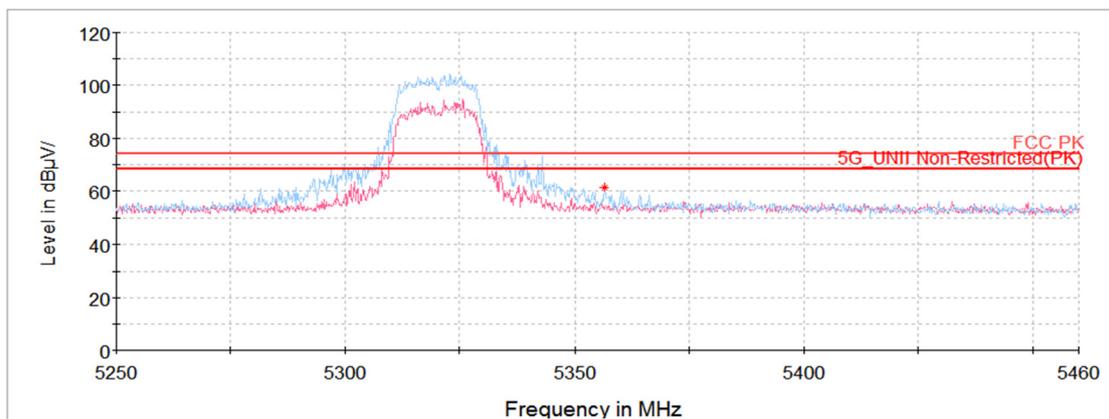
Frequency	Pol.	Reading	Ant. Factor	Amp.+Cable	DCCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(μV))	(dB)	(dB)	(dB)	(dB(μV/m))	(dB(μV/m))	(dB)
Peak data								
1 115.33 ¹⁾	H	73.95	26.97	-50.81	-	50.11	74.00	23.89
5 350.28 ¹⁾	H	53.71	34.35	-26.84	-	61.22	74.00	12.78
10 640.72 ¹⁾	V	58.34	37.68	-49.01	-	47.01	74.00	26.99
15 960.55 ¹⁾	V	55.17	39.70	-48.07	-	46.80	74.00	27.20
Average Data								
5 350.28 ¹⁾	H	42.71	34.35	-26.84	0.31	50.53	54.00	3.47

Average data



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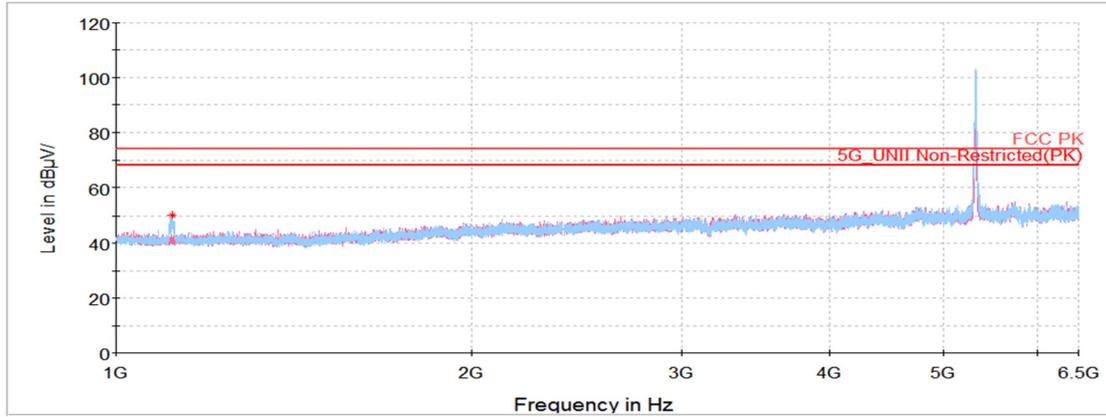
Horizontal/Vertical for Band-edge



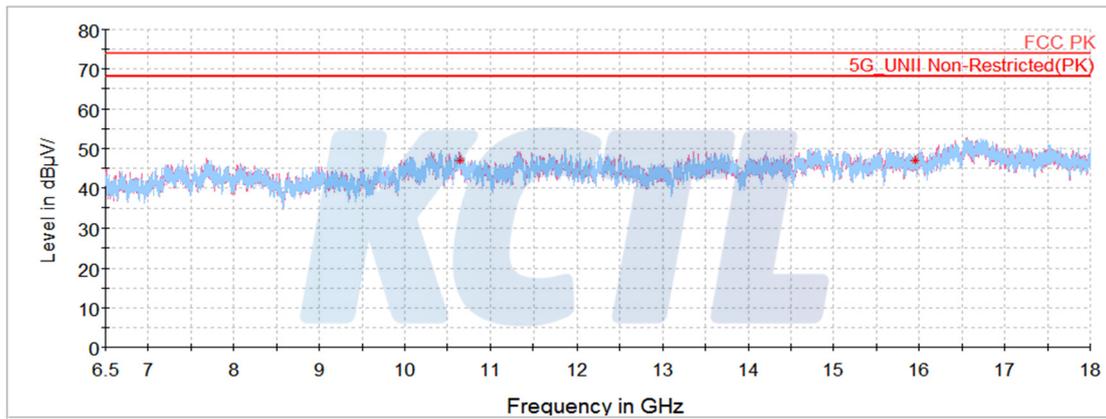
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KCTL-TIR002-001/2

Horizontal/Vertical for 1 GHz ~ 6.5 GHz



Horizontal/Vertical for 6.5 GHz ~ 18 GHz



Horizontal/Vertical for 18 GHz ~ 40 GHz

