

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

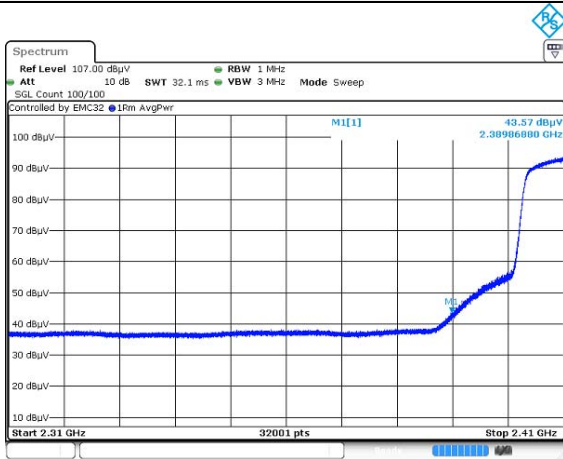
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802.11n HT20_2 412 MHz

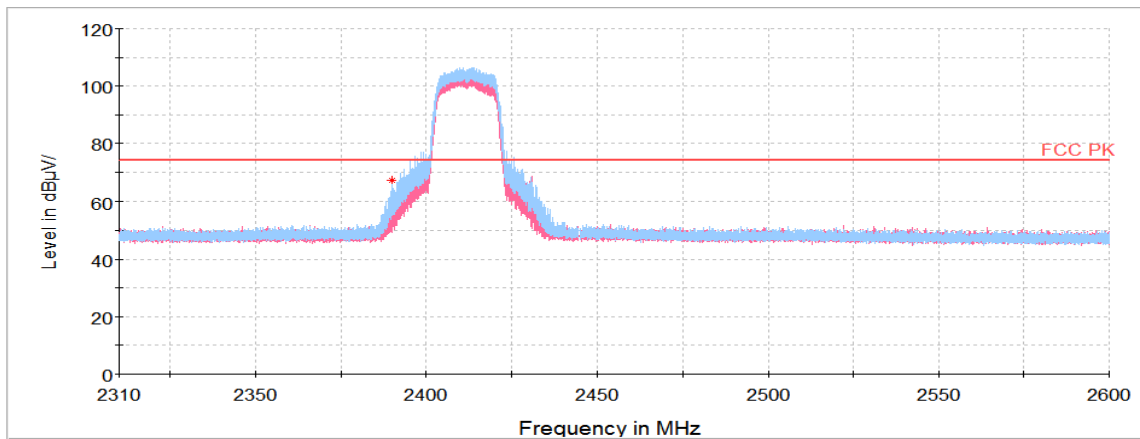
Frequency	Pol.	Reading	Ant. Factor	Amp. + Cable	DCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(μV))	(dB)	(dB)	(dB)	(dB(μV/m))	(dB(μV/m))	(dB)
Peak data								
2 389.87 ¹⁾	H	62.95	32.00	-27.88	-	67.07	74.00	6.93
4 820.41 ¹⁾	H	65.70	33.79	-53.23	-	46.26	74.00	27.74
7 217.44 ¹⁾	V	61.98	35.30	-50.78	-	46.50	74.00	27.50
Average Data								
2 389.87 ¹⁾	H	43.57	32.00	-27.88	-	47.69	54.00	6.31

Average data



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Horizontal/Vertical for Band-edge



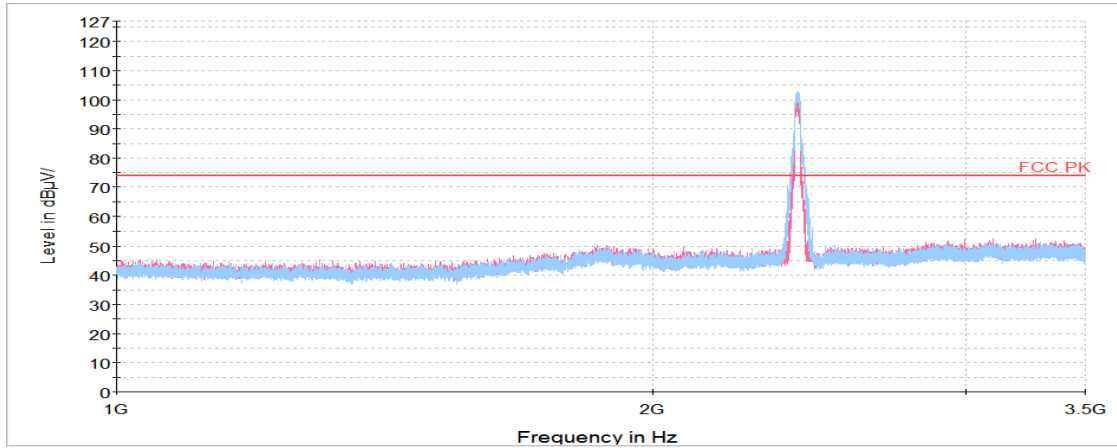
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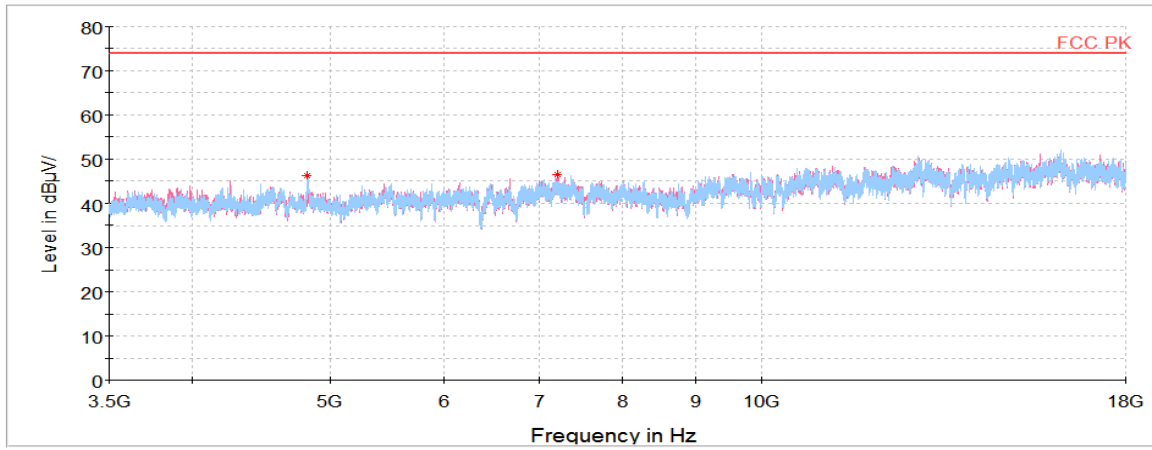
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Horizontal/Vertical for 1 GHz ~ 3.5 GHz



Horizontal/Vertical for 3.5 GHz ~ 18 GHz



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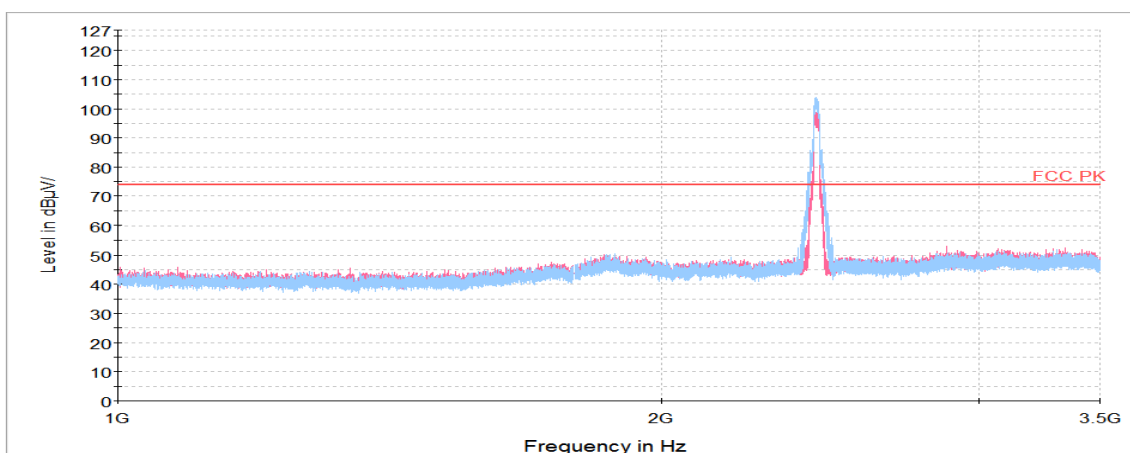
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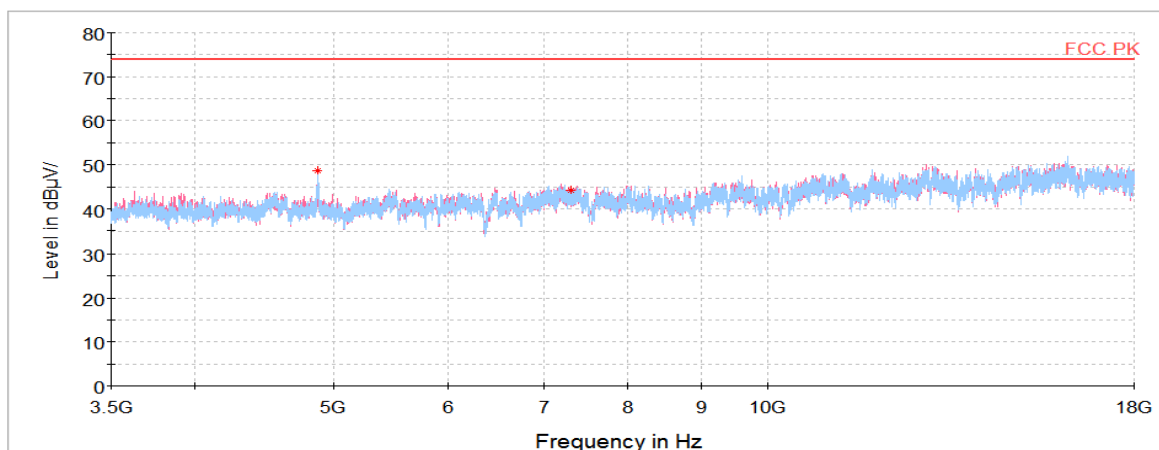
802.11n HT20_2 437 MHz

Frequency (MHz)	Pol. (V/H)	Reading (dB(μ V))	Ant. Factor (dB)	Amp. + Cable (dB)	DCF (dB)	Result (dB(μ V/m))	Limit (dB(μ V/m))	Margin (dB)
Peak data								
4 872.97 ¹⁾	H	67.94	33.82	-53.15	-	48.61	74.00	25.39
7 307.16 ¹⁾	V	59.56	35.30	-50.76	-	44.10	74.00	29.90
Average Data								
No spurious emissions were detected within 20 dB of the limit.								

Horizontal/Vertical for 1 GHz ~ 3.5 GHz



Horizontal/Vertical for 3.5 GHz ~ 18 GHz



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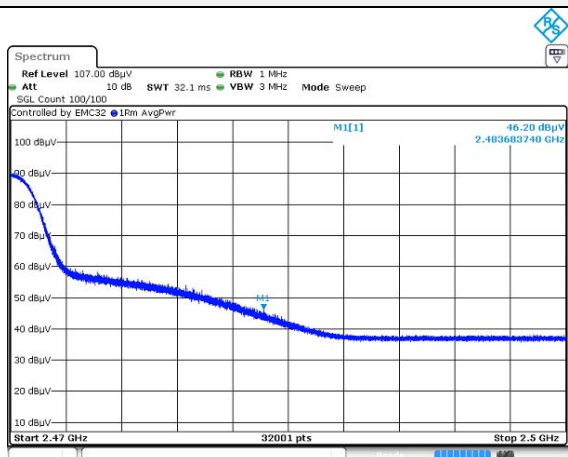
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802.11n HT20_2 462 MHz

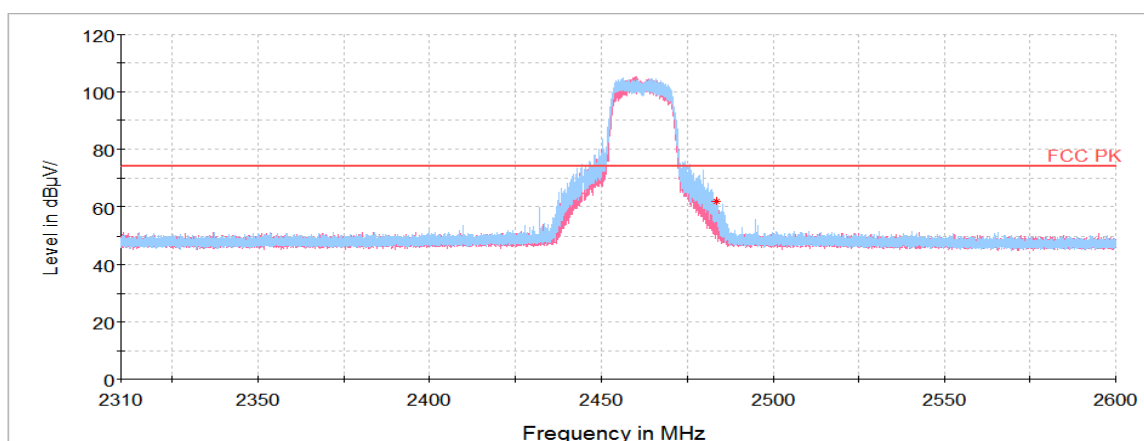
Frequency	Pol.	Reading	Ant. Factor	Amp. + Cable	DCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(μ V))	(dB)	(dB)	(dB)	(dB(μ V/m))	(dB(μ V/m))	(dB)
Peak data								
2 483.68 ¹⁾	H	57.62	32.17	-27.95	-	61.84	74.00	12.16
4 918.28 ¹⁾	H	64.01	33.85	-53.19	-	44.67	74.00	29.33
7 202.94	H	61.93	35.30	-50.79	-	46.44	74.00	27.56
Average Data								
2 483.68 ¹⁾	H	46.20	32.17	-27.95	-	50.42	54.00	3.58

Average data



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Horizontal/Vertical for Band-edge



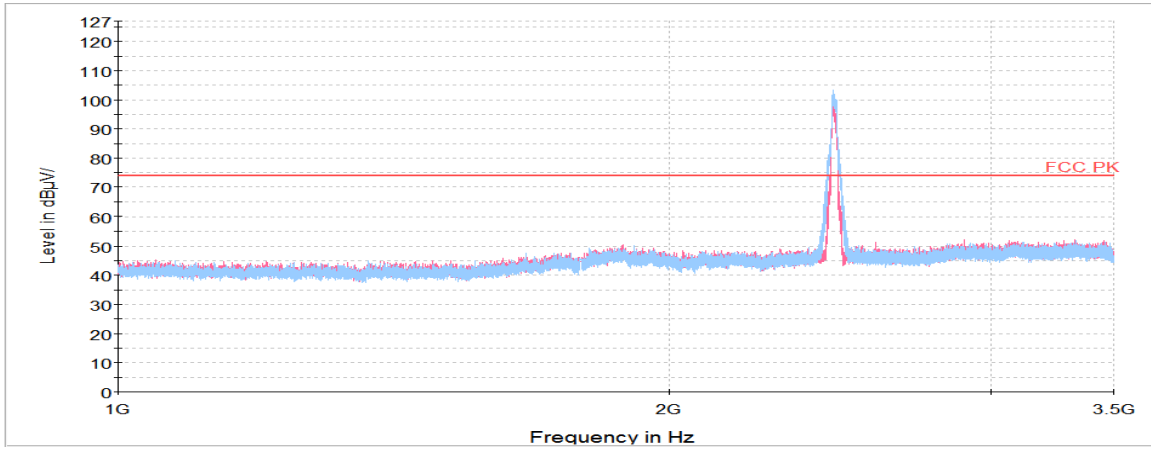
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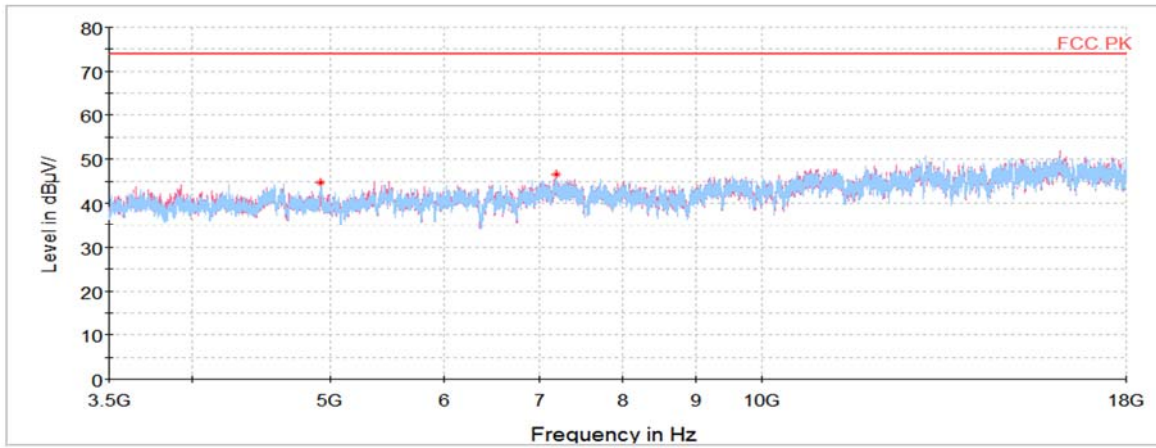
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Horizontal/Vertical for 1 GHz ~ 3.5 GHz



Horizontal/Vertical for 3.5 GHz ~ 18 GHz



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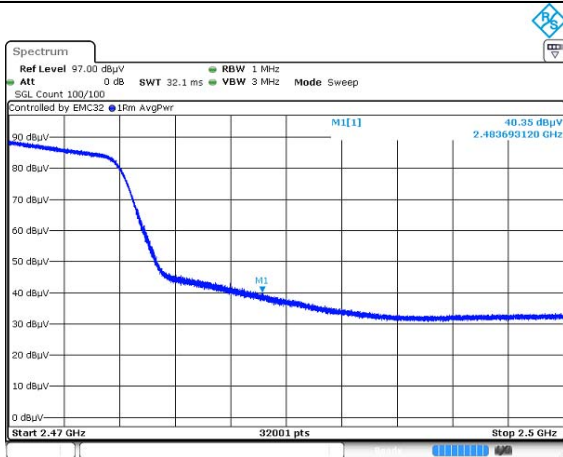
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802.11n HT20_2 467 MHz

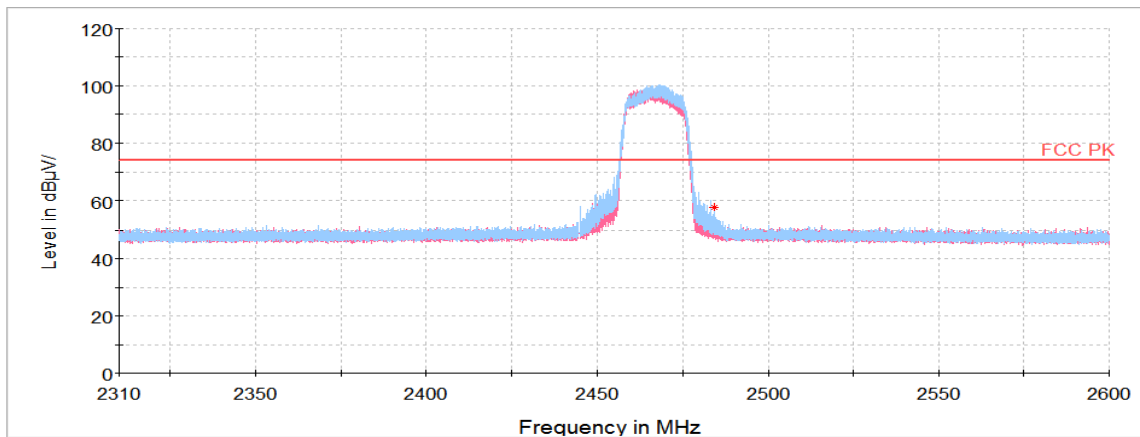
Frequency	Pol.	Reading	Ant. Factor	Amp. + Cable	DCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(μV))	(dB)	(dB)	(dB)	(dB(μV/m))	(dB(μV/m))	(dB)
Peak data								
2 483.69 ¹⁾	H	53.27	32.17	-27.95	-	57.49	74.00	16.51
4 637.34 ¹⁾	H	61.33	33.68	-51.74	-	43.27	74.00	30.73
7 418.17 ¹⁾	H	60.79	35.30	-50.74	-	45.35	74.00	28.65
Average Data								
2 483.69 ¹⁾	H	40.35	32.17	-27.95	-	44.57	54.00	9.43

Average data



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Horizontal/Vertical for Band-edge



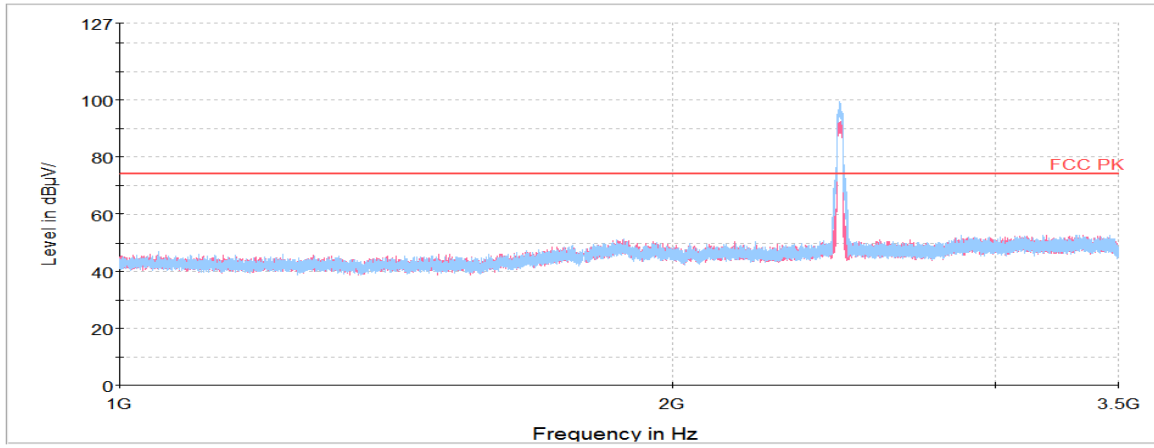
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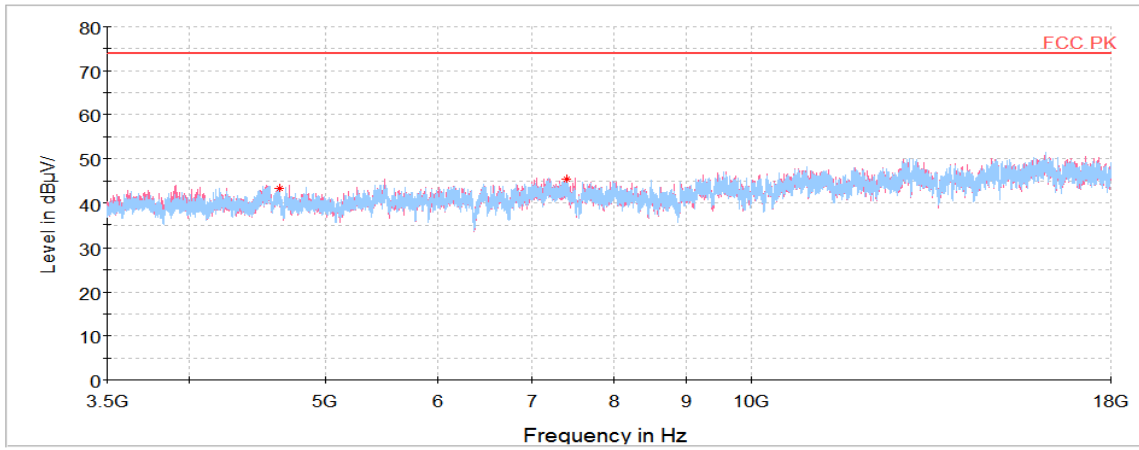
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Horizontal/Vertical for 1 GHz ~ 3.5 GHz



Horizontal/Vertical for 3.5 GHz ~ 18 GHz



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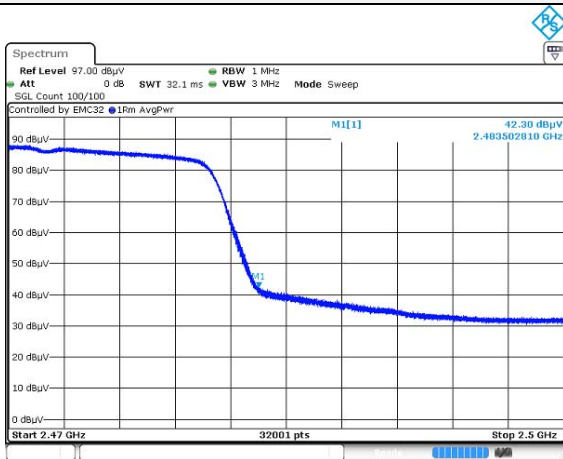
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802.11n HT20_2 472 MHz

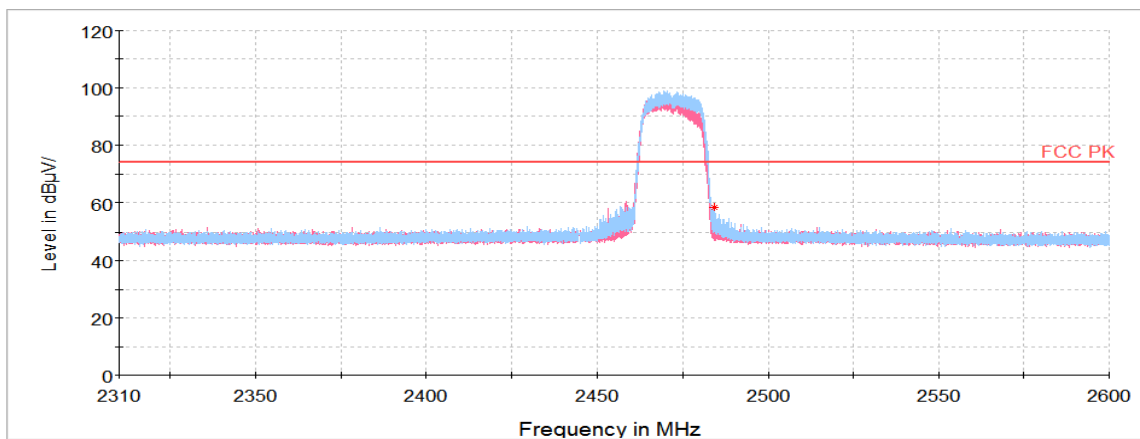
Frequency	Pol.	Reading	Ant. Factor	Amp. + Cable	DCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(μV))	(dB)	(dB)	(dB)	(dB(μV/m))	(dB(μV/m))	(dB)
Peak data								
2 483.50 ¹⁾	H	54.12	32.17	-27.95	-	58.34	74.00	15.66
4 937.31 ¹⁾	V	61.32	33.86	-53.28	-	41.90	74.00	32.10
7 414.55 ¹⁾	H	59.63	35.30	-50.74	-	44.19	74.00	29.81
Average Data								
2 483.50 ¹⁾	H	42.30	32.17	-27.95	-	46.52	54.00	7.48

Average data



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Horizontal/Vertical for Band-edge



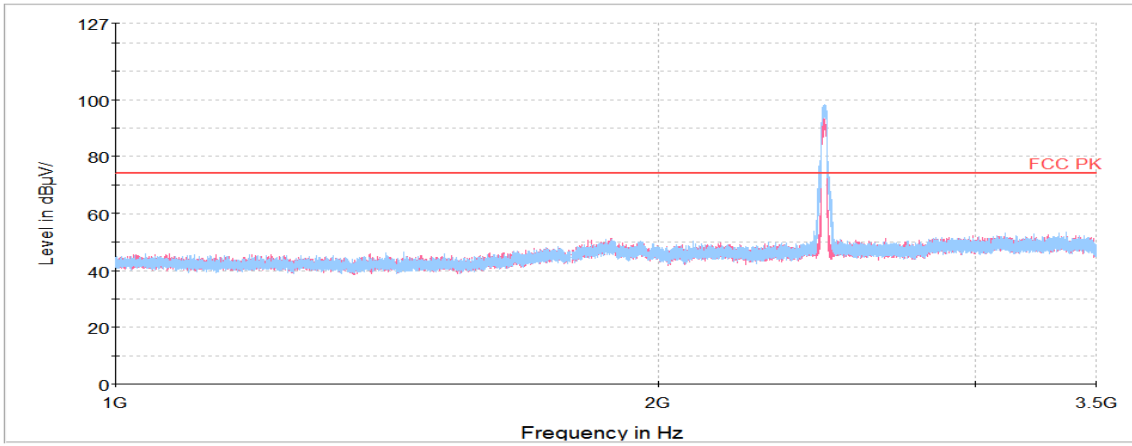
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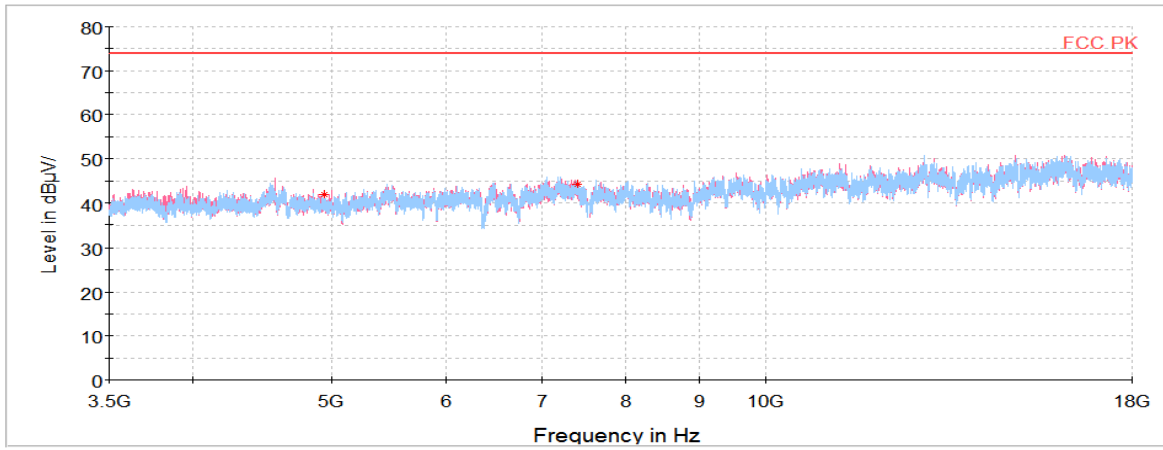
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Horizontal/Vertical for 1 GHz ~ 3.5 GHz



Horizontal/Vertical for 3.5 GHz ~ 18 GHz



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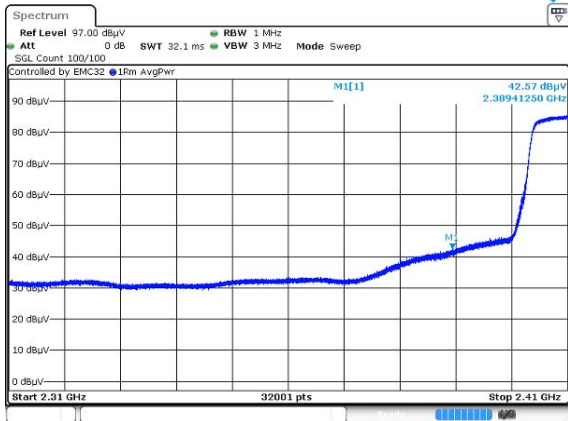
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802.11n HT40_2 422 MHz

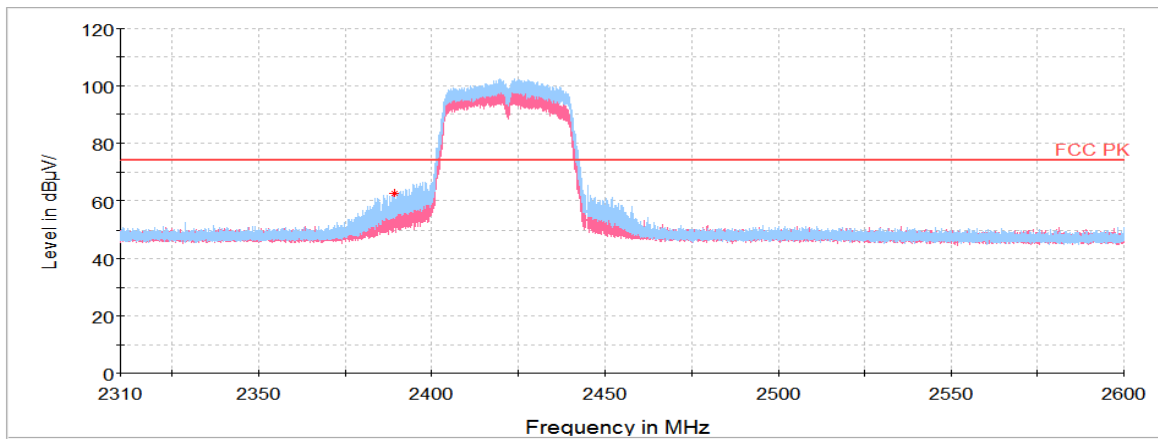
Frequency	Pol.	Reading	Ant. Factor	Amp. + Cable	DCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(μV))	(dB)	(dB)	(dB)	(dB(μV/m))	(dB(μV/m))	(dB)
Peak data								
2 389.41 ¹⁾	H	58.39	32.00	-27.88	-	62.51	74.00	11.49
4 852.58 ¹⁾	V	62.53	33.81	-53.19	-	43.15	74.00	30.85
7 283.14 ¹⁾	V	60.31	35.30	-50.77	-	44.84	74.00	29.16
Average Data								
2 389.41 ¹⁾	H	42.57	32.00	-27.88	-	46.69	54.00	7.31

Average data



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Horizontal/Vertical for Band-edge



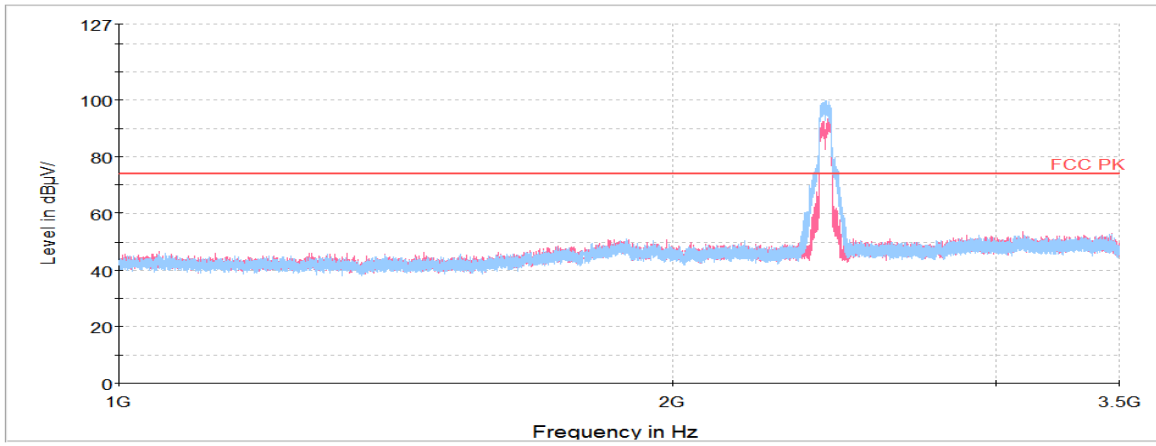
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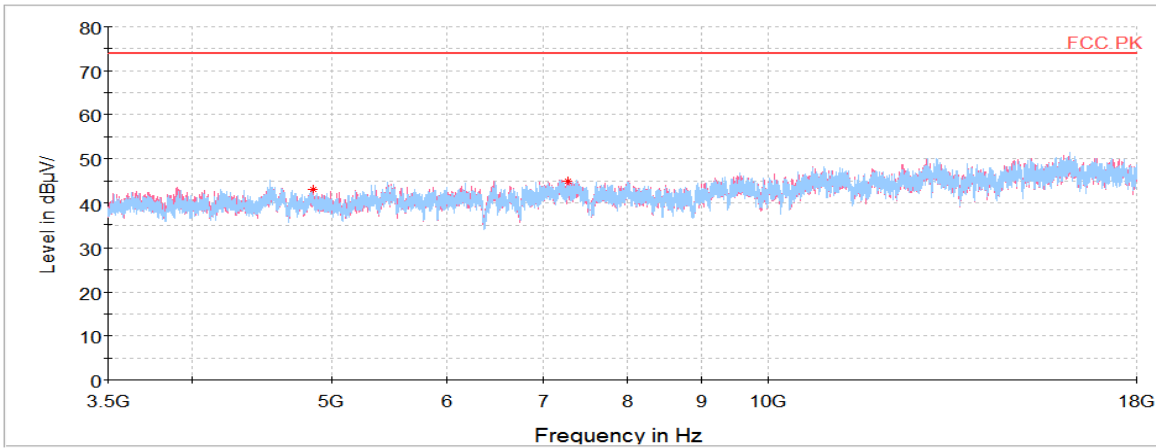
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Horizontal/Vertical for 1 GHz ~ 3.5 GHz



Horizontal/Vertical for 3.5 GHz ~ 18 GHz



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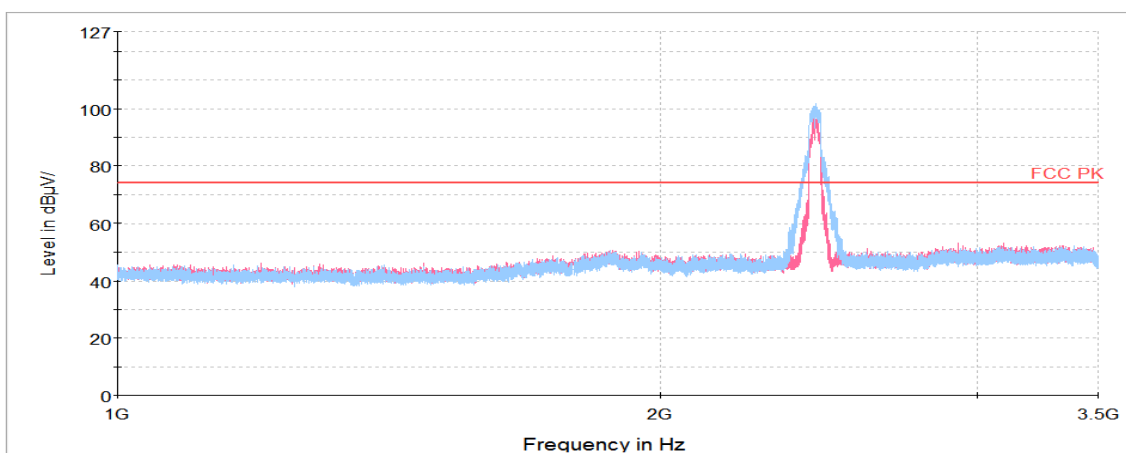
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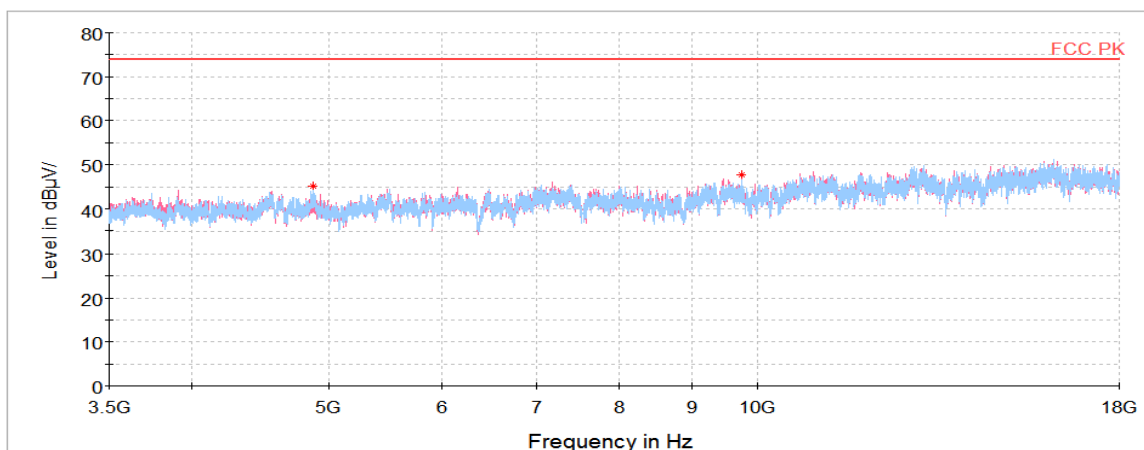
802.11n HT40_2 437 MHz

Frequency (MHz)	Pol. (V/H)	Reading (dB(μ V))	Ant. Factor (dB)	Amp. + Cable (dB)	DCF (dB)	Result (dB(μ V/m))	Limit (dB(μ V/m))	Margin (dB)
Peak data								
4 872.52 ¹⁾	H	64.37	33.82	-53.15	-	45.04	74.00	28.96
9 747.69	V	60.50	36.85	-49.66	-	47.69	74.00	26.31
Average Data								
No spurious emissions were detected within 20 dB of the limit.								

Horizontal/Vertical for 1 GHz ~ 3.5 GHz



Horizontal/Vertical for 3.5 GHz ~ 18 GHz



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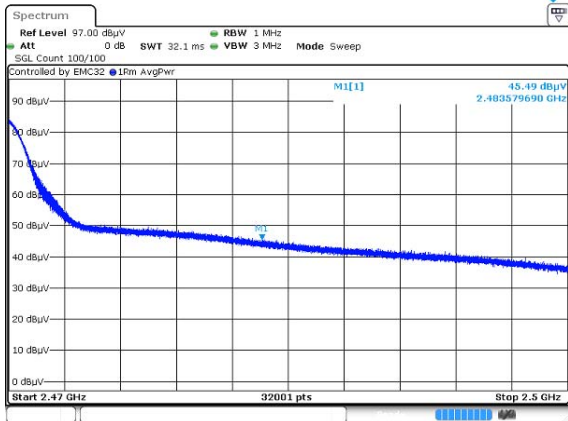
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802.11n HT40_2 452 MHz

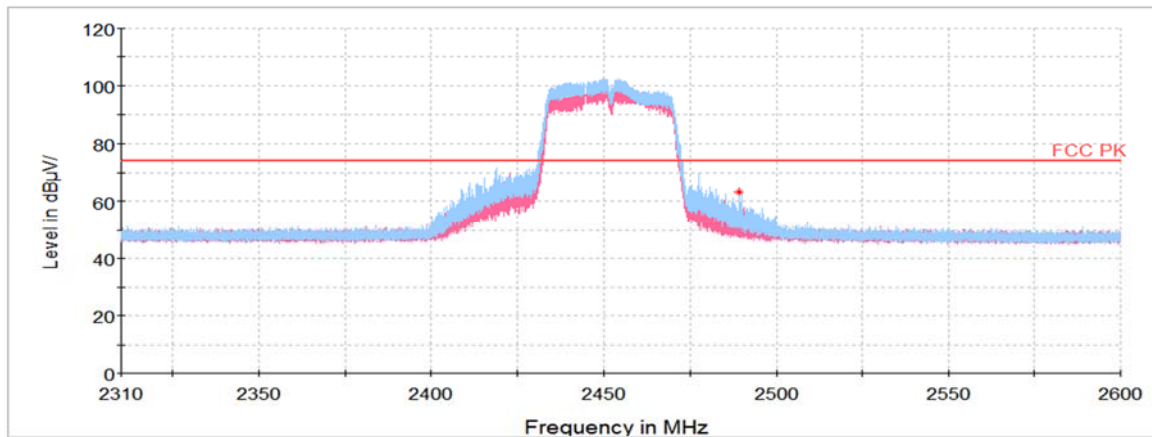
Frequency	Pol.	Reading	Ant. Factor	Amp. + Cable	DCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(μV))	(dB)	(dB)	(dB)	(dB(μV/m))	(dB(μV/m))	(dB)
Peak data								
2 483.58 ¹⁾	H	59.09	32.17	-27.95	-	63.31	74.00	10.69
4 908.31 ¹⁾	H	61.97	33.84	-53.15	-	42.66	74.00	31.34
7 389.17 ¹⁾	H	59.89	35.30	-50.75	-	44.44	74.00	29.56
Average Data								
2 483.58 ¹⁾	H	45.49	32.17	-27.95	-	49.71	54.00	4.29

Average data



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Horizontal/Vertical for Band-edge



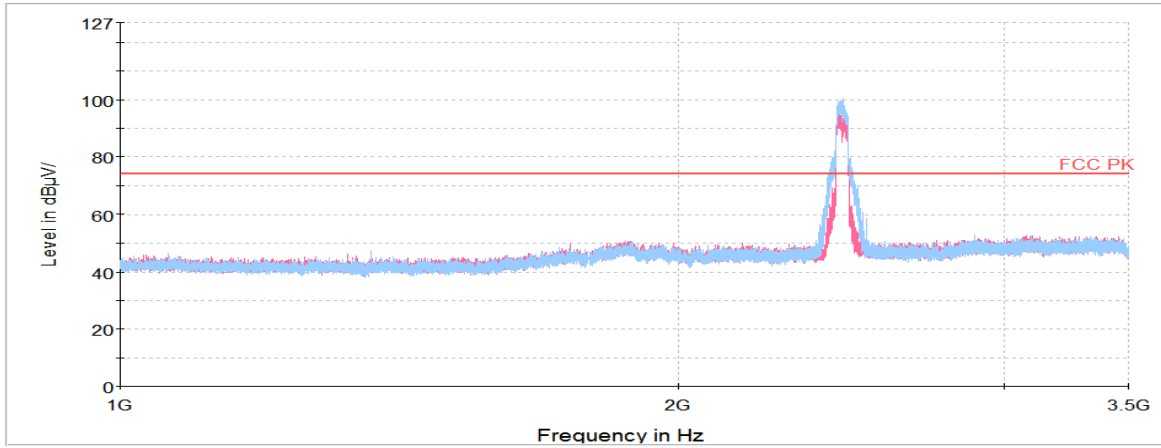
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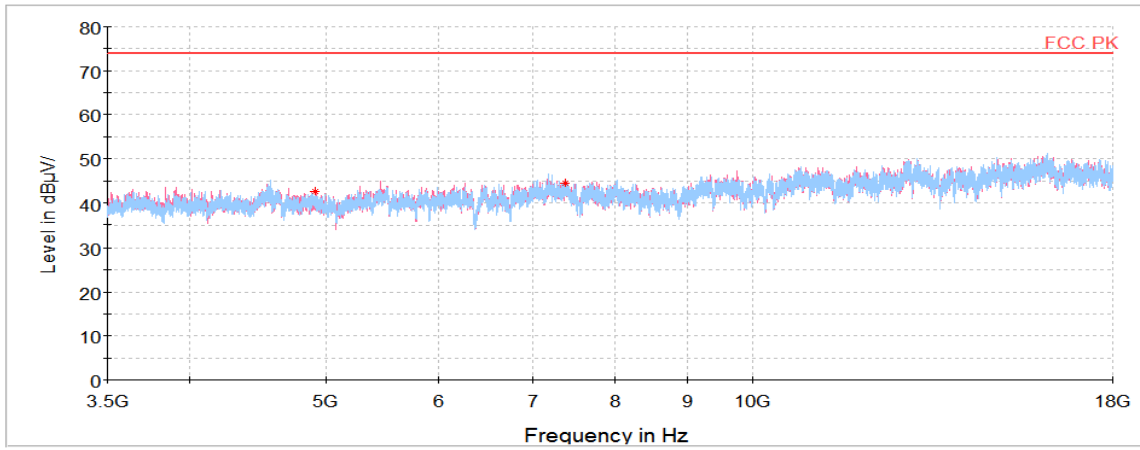
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Horizontal/Vertical for 1 GHz ~ 3.5 GHz



Horizontal/Vertical for 3.5 GHz ~ 18 GHz



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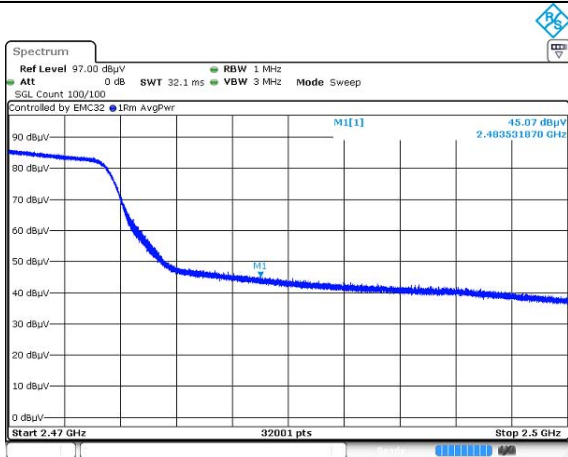
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802.11n HT40_2 457 MHz

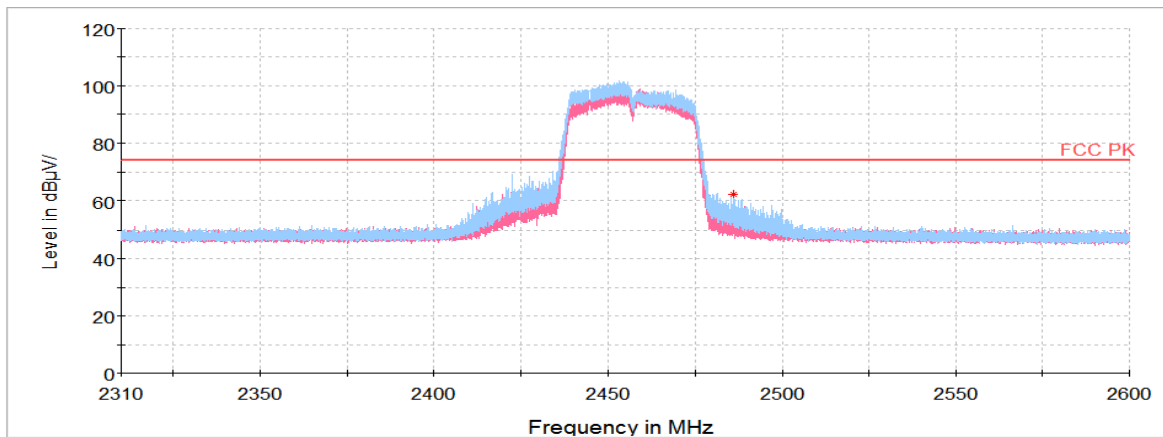
Frequency	Pol.	Reading	Ant. Factor	Amp. + Cable	DCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(μV))	(dB)	(dB)	(dB)	(dB(μV/m))	(dB(μV/m))	(dB)
Peak data								
2 483.53 ¹⁾	H	57.87	32.17	-27.95	-	62.09	74.00	11.91
4 918.28 ¹⁾	V	62.43	33.85	-53.19	-	43.09	74.00	30.91
7 391.89 ¹⁾	V	60.67	35.30	-50.75	-	45.22	74.00	28.78
Average Data								
2 483.53 ¹⁾	H	45.07	32.17	-27.95	-	49.29	54.00	4.71

Average data



Blank

Horizontal/Vertical for Band-edge



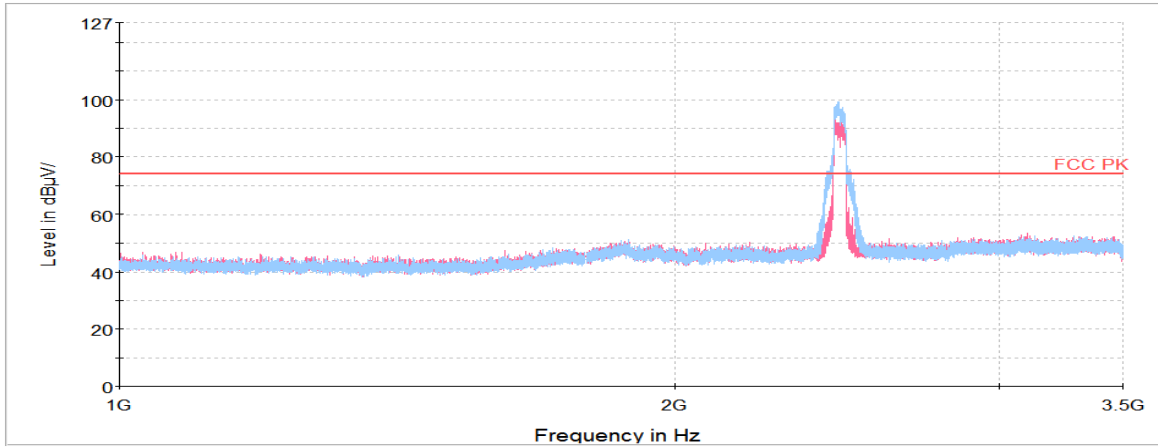
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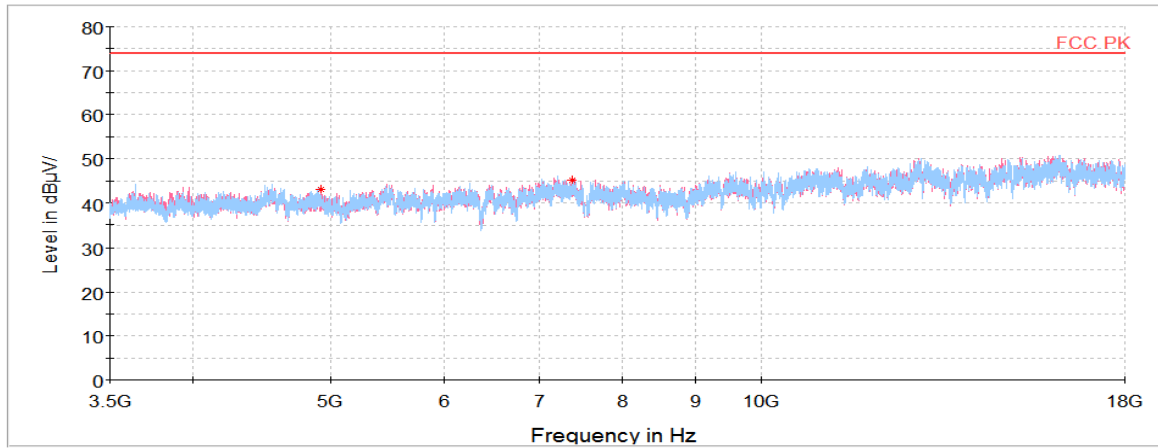
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Horizontal/Vertical for 1 GHz ~ 3.5 GHz



Horizontal/Vertical for 3.5 GHz ~ 18 GHz



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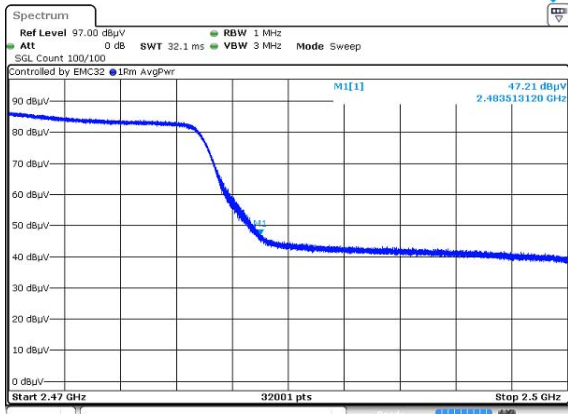
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802.11n HT40_2 462 MHz

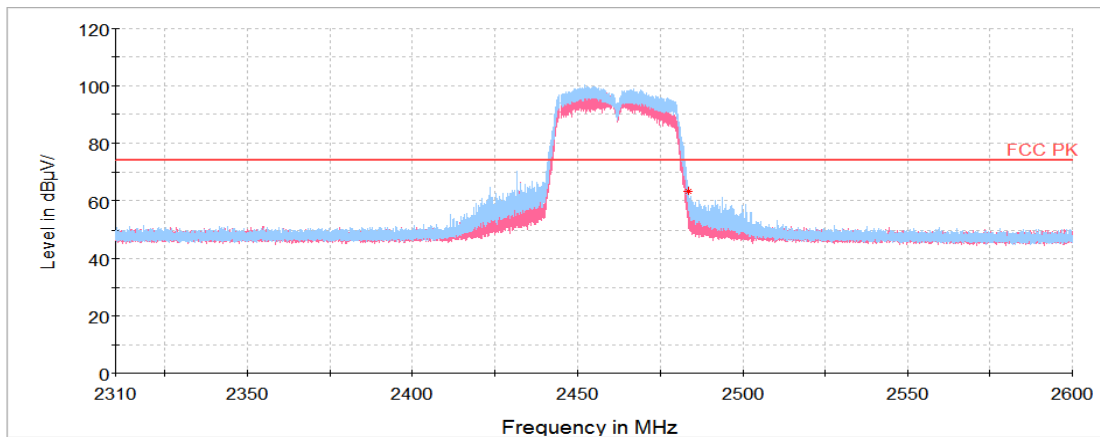
Frequency	Pol.	Reading	Ant. Factor	Amp. + Cable	DCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(μV))	(dB)	(dB)	(dB)	(dB(μV/m))	(dB(μV/m))	(dB)
Peak data								
2 483.51 ¹⁾	H	58.90	32.17	-27.95	-	63.12	74.00	10.88
4 939.13 ¹⁾	H	61.56	33.86	-53.29	-	42.13	74.00	31.87
7 403.67 ¹⁾	H	60.73	35.30	-50.74	-	45.29	74.00	28.71
Average Data								
2 483.51 ¹⁾	H	47.21	32.17	-27.95	-	51.43	54.00	2.57

Average data



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Horizontal/Vertical for Band-edge



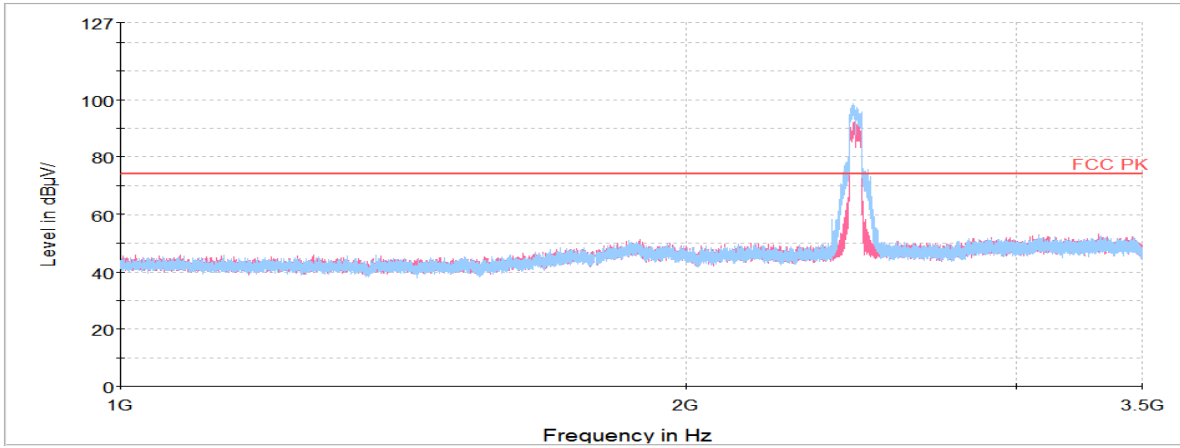
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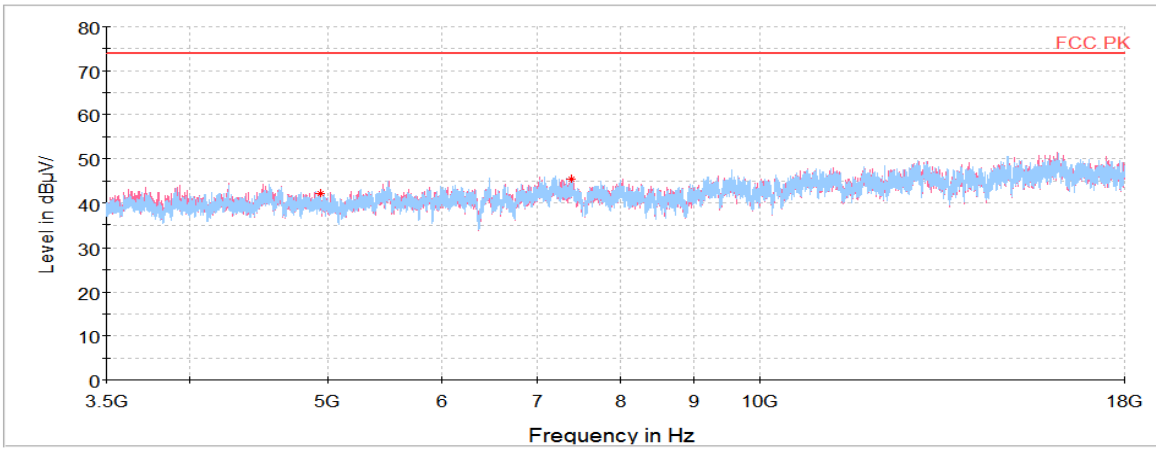
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Horizontal/Vertical for 1 GHz ~ 3.5 GHz



Horizontal/Vertical for 3.5 GHz ~ 18 GHz



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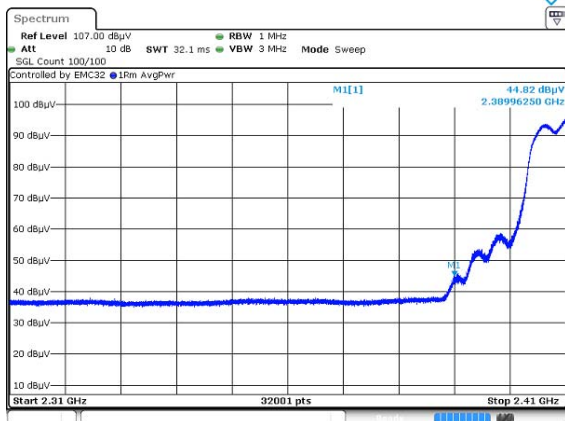


MIMO

802.11g_2 412 MHz

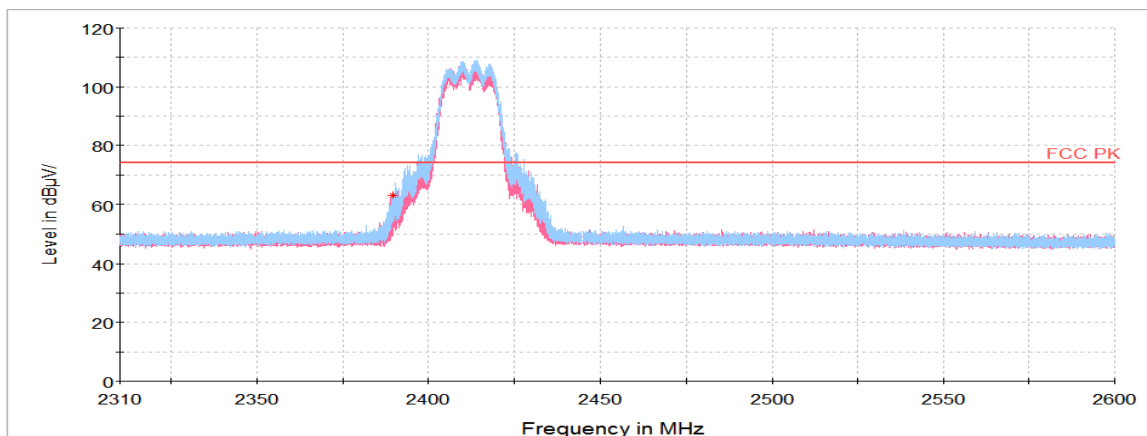
Frequency	Pol.	Reading	Ant. Factor	Amp. + Cable	DCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(μV))	(dB)	(dB)	(dB)	(dB(μV/m))	(dB(μV/m))	(dB)
Peak data								
2 389.96 ¹⁾	H	58.98	32.00	-27.88	-	63.10	74.00	10.90
4 822.67 ¹⁾	H	65.55	33.79	-53.23	-	46.11	74.00	27.89
7 240.55	V	60.58	35.30	-50.78	-	45.10	74.00	28.90
Average Data								
2 389.96 ¹⁾	H	44.82	32.00	-27.88	-	48.94	54.00	5.06

Average data



Blank

Horizontal/Vertical for Band-edge



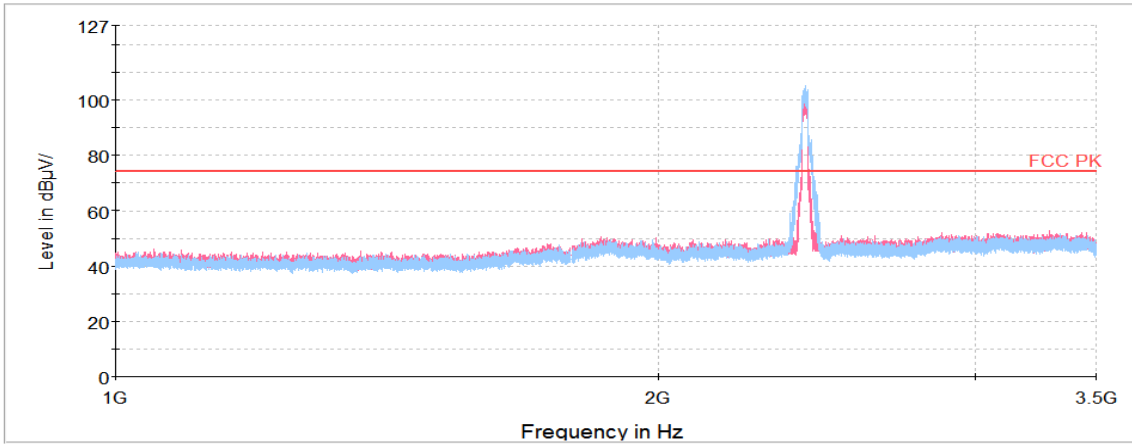
KCTL Inc.

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

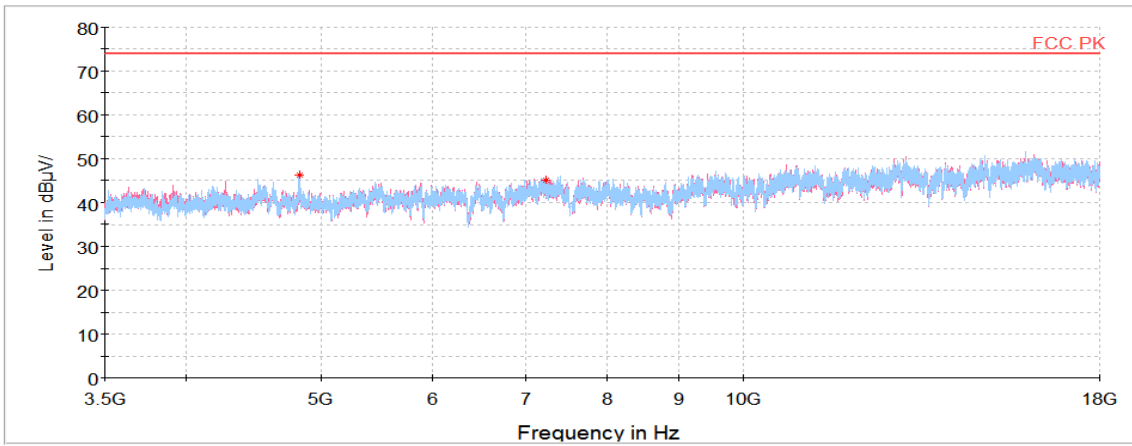
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Horizontal/Vertical for 1 GHz ~ 3.5 GHz



Horizontal/Vertical for 3.5 GHz ~ 18 GHz



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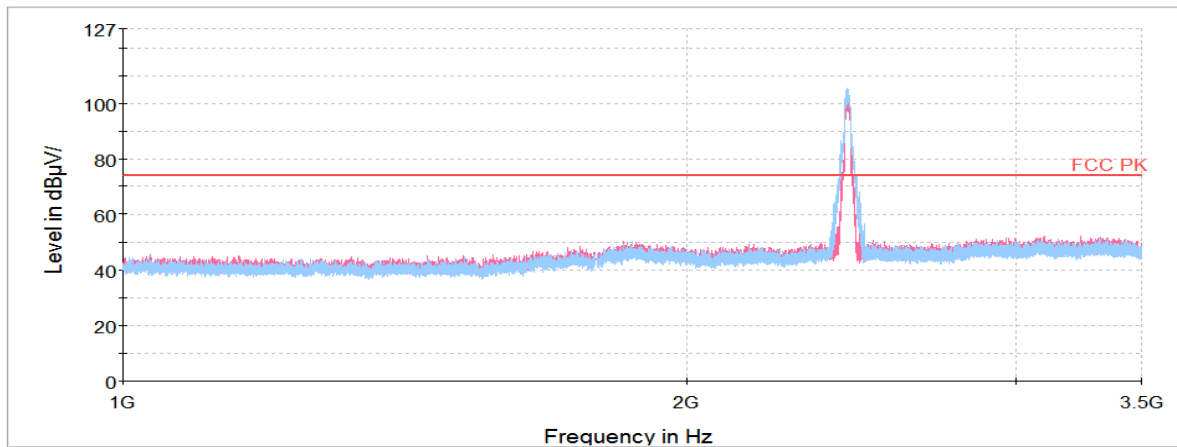
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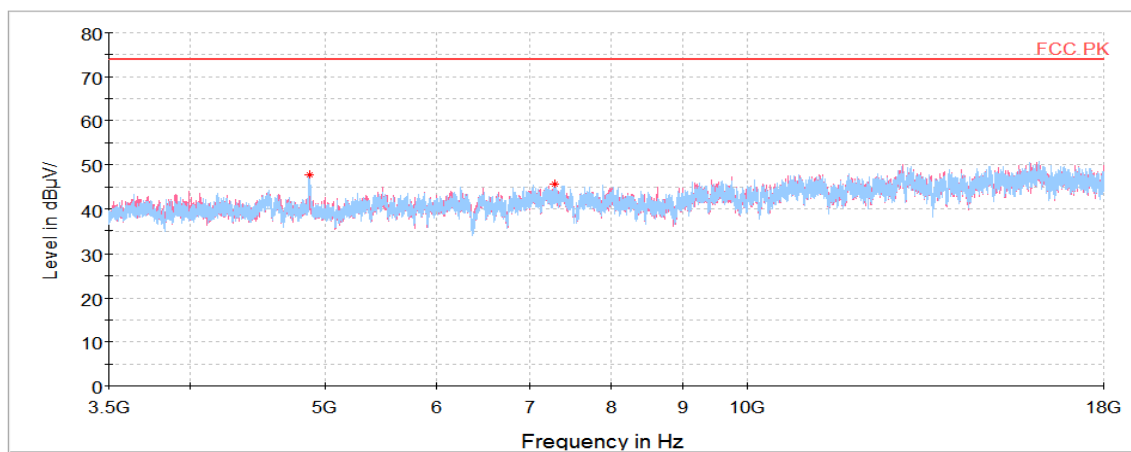
802.11g_2 437 MHz

Frequency	Pol.	Reading	Ant. Factor	Amp. + Cable	DCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(μV))	(dB)	(dB)	(dB)	(dB(μV/m))	(dB(μV/m))	(dB)
Peak data								
4 872.97 ¹⁾	H	67.04	33.82	-53.15	-	47.71	74.00	26.29
7 305.80 ¹⁾	H	61.18	35.30	-50.77	-	45.71	74.00	28.29
Average Data								
No spurious emissions were detected within 20 dB of the limit.								

Horizontal/Vertical for 1 GHz ~ 3.5 GHz



Horizontal/Vertical for 3.5 GHz ~ 18 GHz



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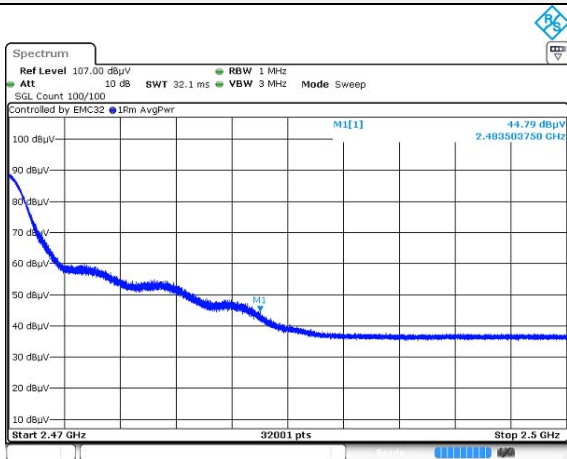
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802.11g_2 462 MHz

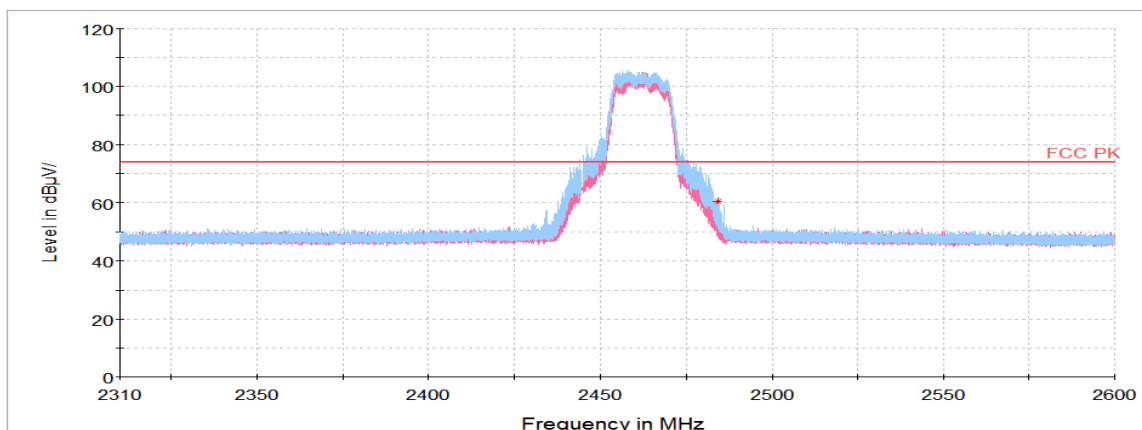
Frequency	Pol.	Reading	Ant. Factor	Amp. + Cable	DCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(μV))	(dB)	(dB)	(dB)	(dB(μV/m))	(dB(μV/m))	(dB)
Peak data								
2 483.50 ¹⁾	H	56.15	32.17	-27.95	-	60.37	74.00	13.63
4 922.36 ¹⁾	H	65.40	33.85	-53.21	-	46.04	74.00	27.96
7 235.56	H	60.94	35.30	-50.78	-	45.46	74.00	28.54
Average Data								
2 483.50 ¹⁾	H	44.79	32.17	-27.95	-	49.01	54.00	4.99

Average data



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Horizontal/Vertical for Band-edge



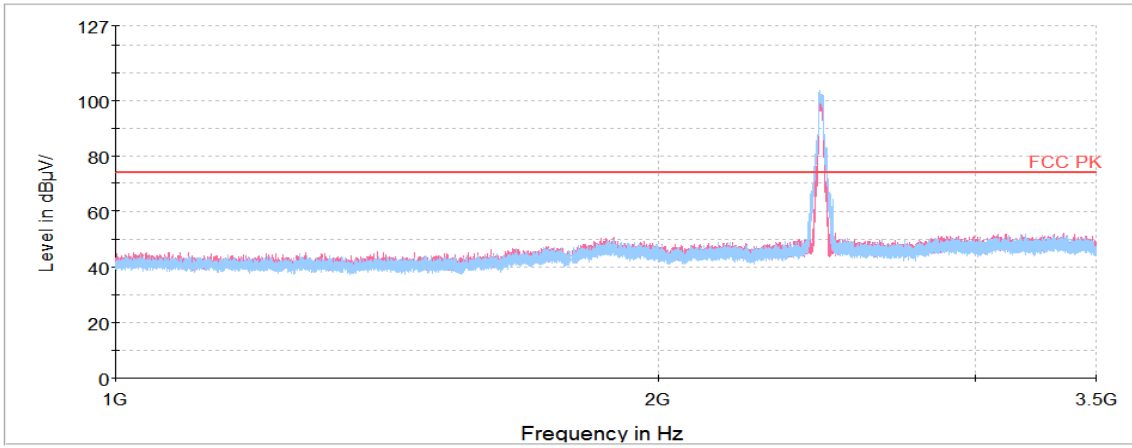
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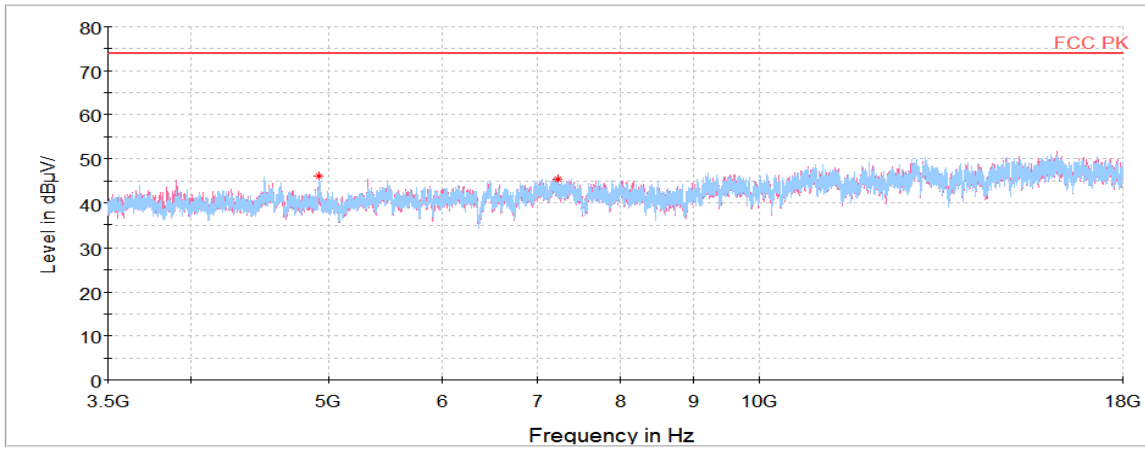
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Horizontal/Vertical for 1 GHz ~ 3.5 GHz



Horizontal/Vertical for 3.5 GHz ~ 18 GHz



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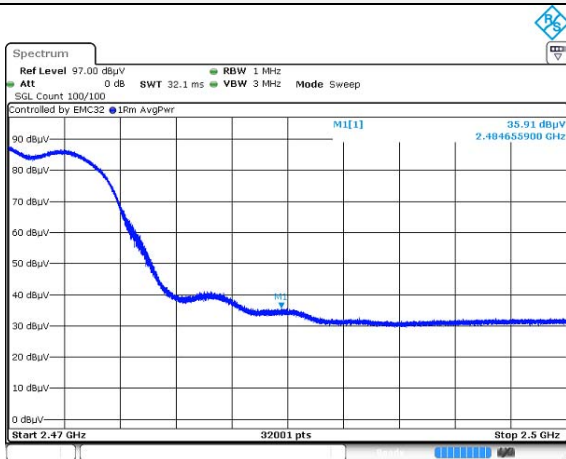
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802.11g_2 467 MHz

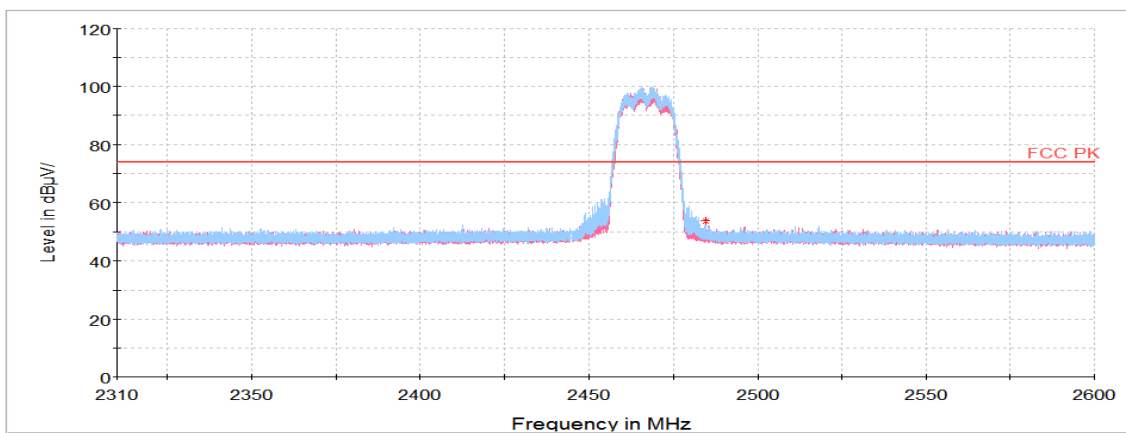
Frequency	Pol.	Reading	Ant. Factor	Amp. + Cable	DCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(μV))	(dB)	(dB)	(dB)	(dB(μV/m))	(dB(μV/m))	(dB)
Peak data								
2 484.66 ¹⁾	H	49.43	32.17	-27.96	-	53.64	74.00	20.36
4 931.88 ¹⁾	V	61.36	33.86	-53.25	-	41.97	74.00	32.03
7 415.45 ¹⁾	V	60.92	35.30	-50.74	-	45.48	74.00	28.52
Average Data								
2 484.66 ¹⁾	H	35.91	32.17	-27.96	-	40.12	54.00	13.88

Average data



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Horizontal/Vertical for Band-edge



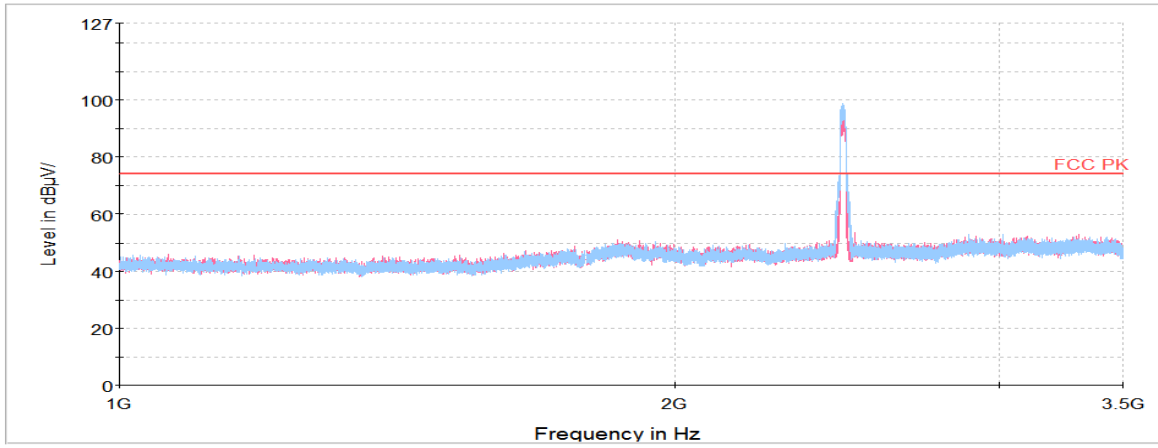
KCTL Inc.

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Suwon-si, Gyeonggi-do, 16677, Korea
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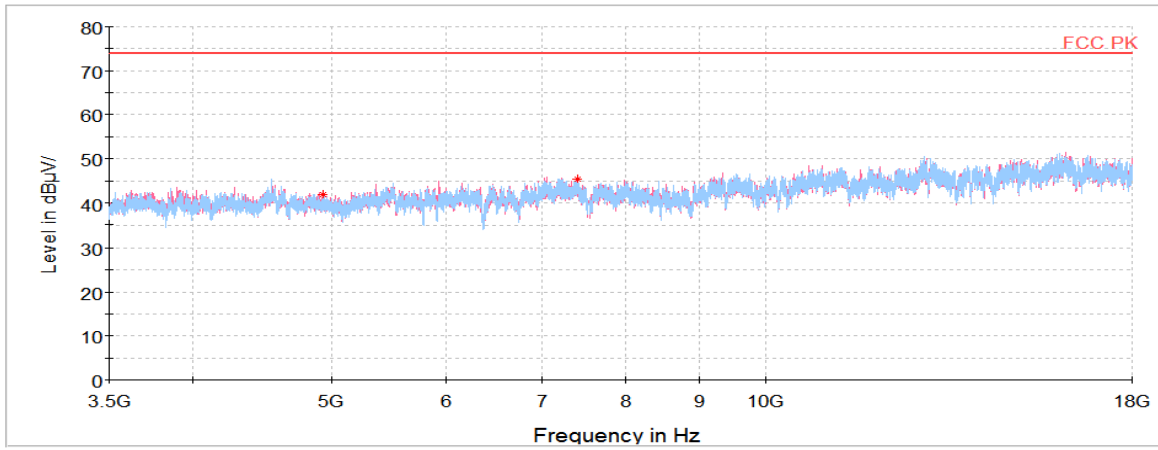
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Horizontal/Vertical for 1 GHz ~ 3.5 GHz



Horizontal/Vertical for 3.5 GHz ~ 18 GHz



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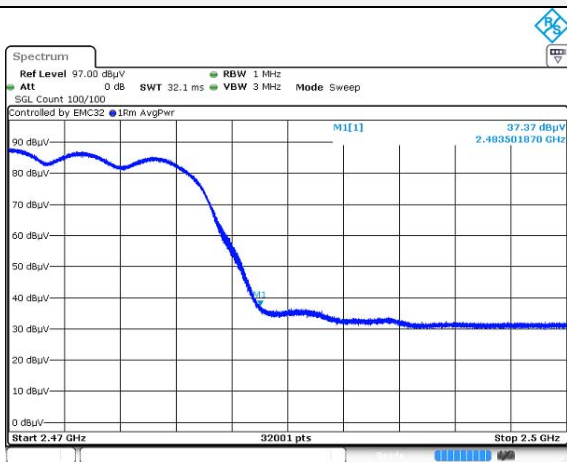
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802.11g_2 472 MHz

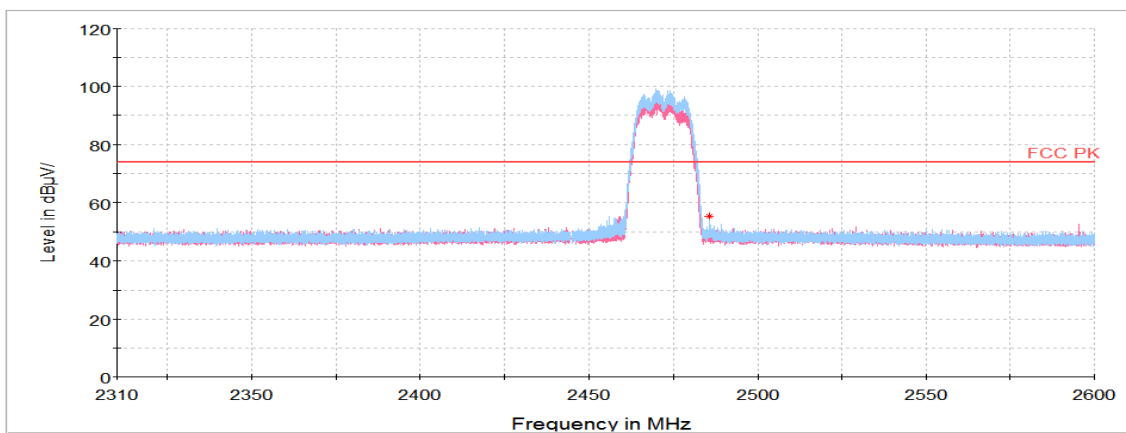
Frequency	Pol.	Reading	Ant. Factor	Amp. + Cable	DCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(μV))	(dB)	(dB)	(dB)	(dB(μV/m))	(dB(μV/m))	(dB)
Peak data								
2 485.50 ¹⁾	H	50.98	32.17	-27.96	-	55.19	74.00	18.81
4 931.42 ¹⁾	H	61.60	33.86	-53.25	-	42.21	74.00	31.79
7 411.38 ¹⁾	V	60.63	35.30	-50.74	-	45.19	74.00	28.81
Average Data								
2 483.50 ¹⁾	H	37.37	32.17	-27.95	-	41.59	54.00	12.41

Average data



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Horizontal/Vertical for Band-edge



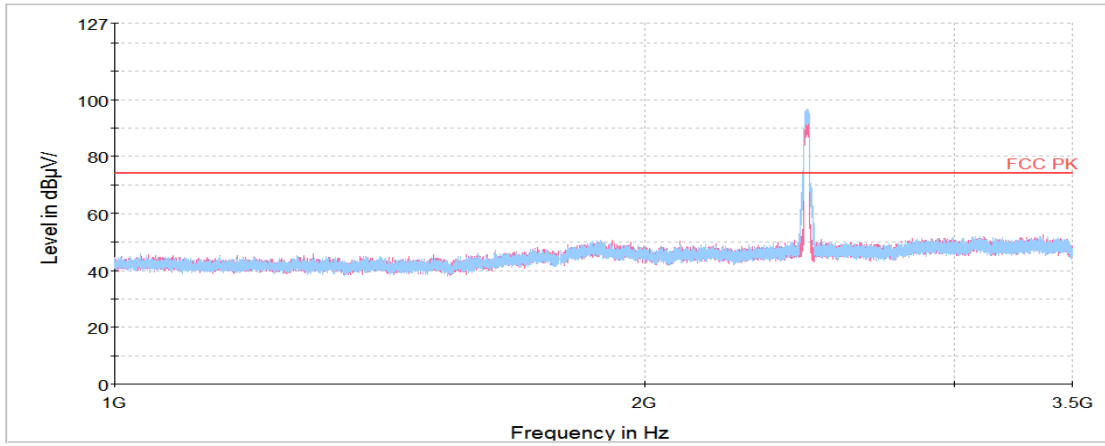
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Suwon-si, Gyeonggi-do, 16677, Korea
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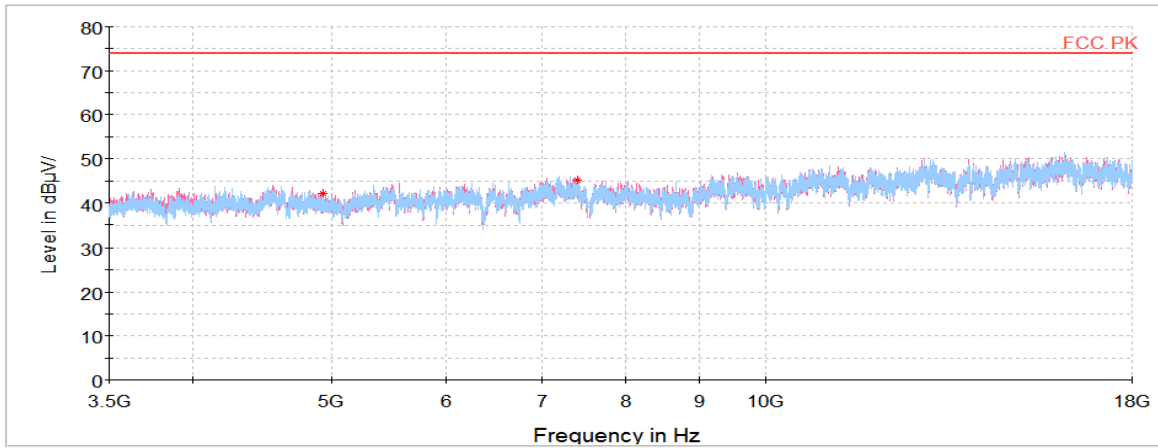
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Horizontal/Vertical for 1 GHz ~ 3.5 GHz



Horizontal/Vertical for 3.5 GHz ~ 18 GHz



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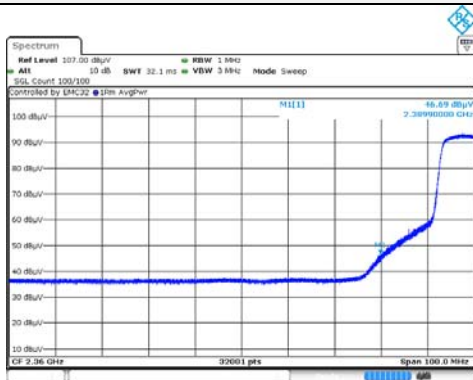
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802.11n HT20_2 412 MHz

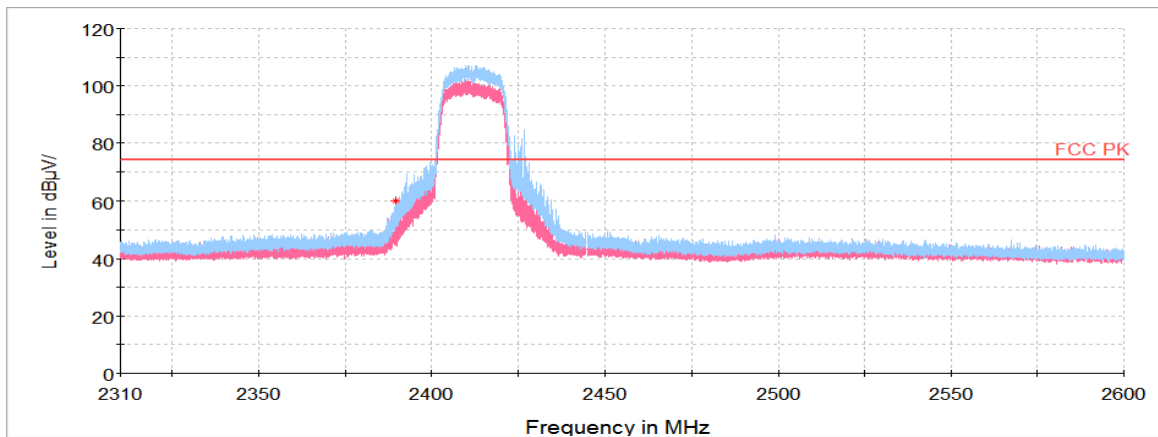
Frequency (MHz)	Pol. (V/H)	Reading (dB(μV))	Ant. Factor (dB)	Amp. + Cable (dB)	DCF (dB)	Result (dB(μV/m))	Limit (dB(μV/m))	Margin (dB)
Peak data								
2 389.90 ¹⁾	H	55.77	32.00	-27.88	-	59.89	74.00	14.11
4 823.13 ¹⁾	H	68.20	33.79	-53.23	-	48.76	74.00	25.24
7 214.72	V	60.93	35.30	-50.78	-	45.45	74.00	28.55
Average Data								
2 389.90 ¹⁾	H	46.69	32.00	-27.88	-	50.81	54.00	3.19

Average data



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Horizontal/Vertical for Band-edge



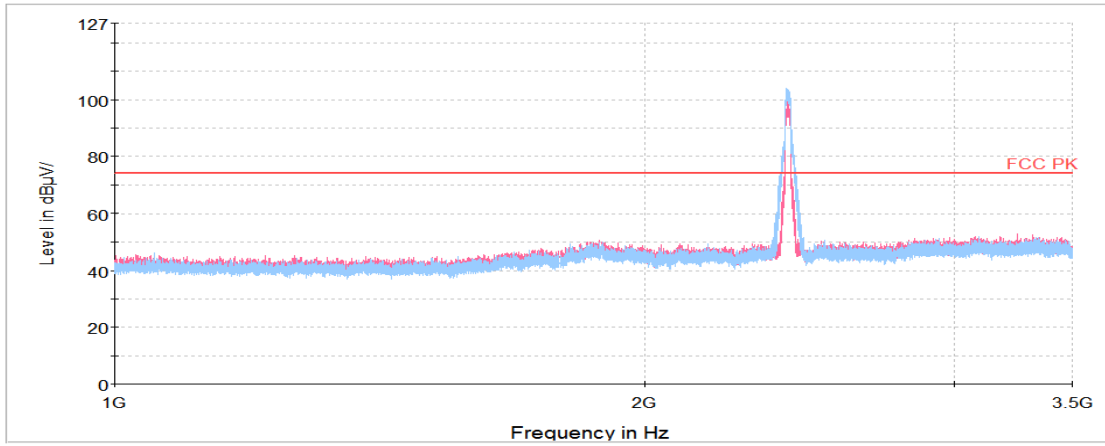
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Suwon-si, Gyeonggi-do, 16677, Korea
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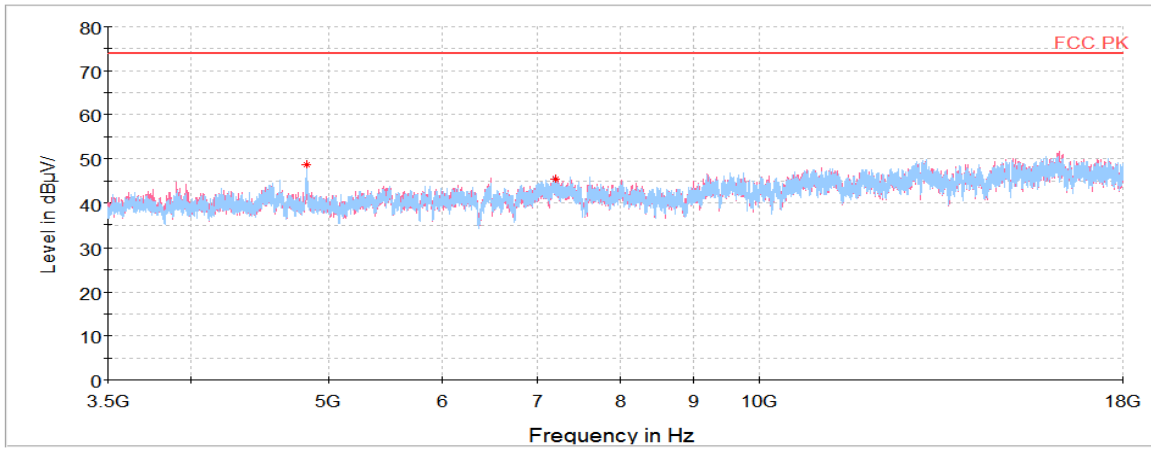
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Horizontal/Vertical for 1 GHz ~ 3.5 GHz



Horizontal/Vertical for 3.5 GHz ~ 18 GHz



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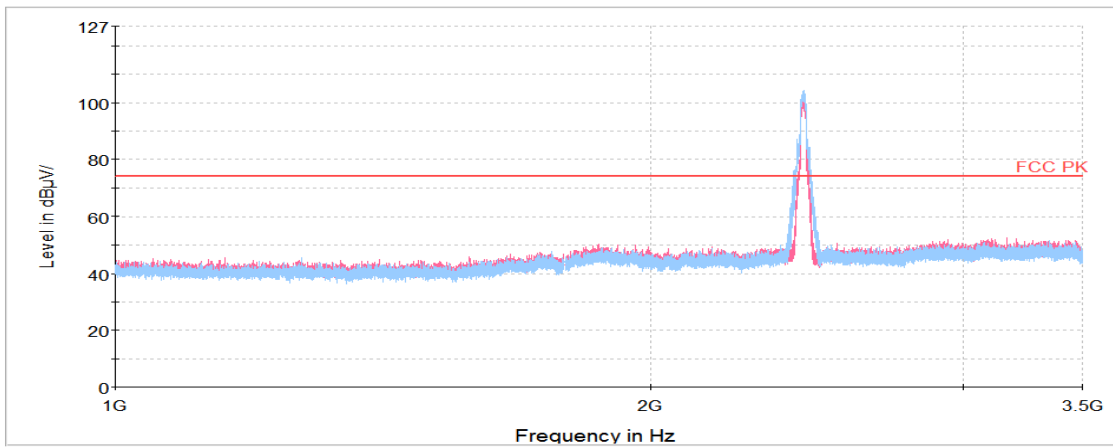
Report No.:
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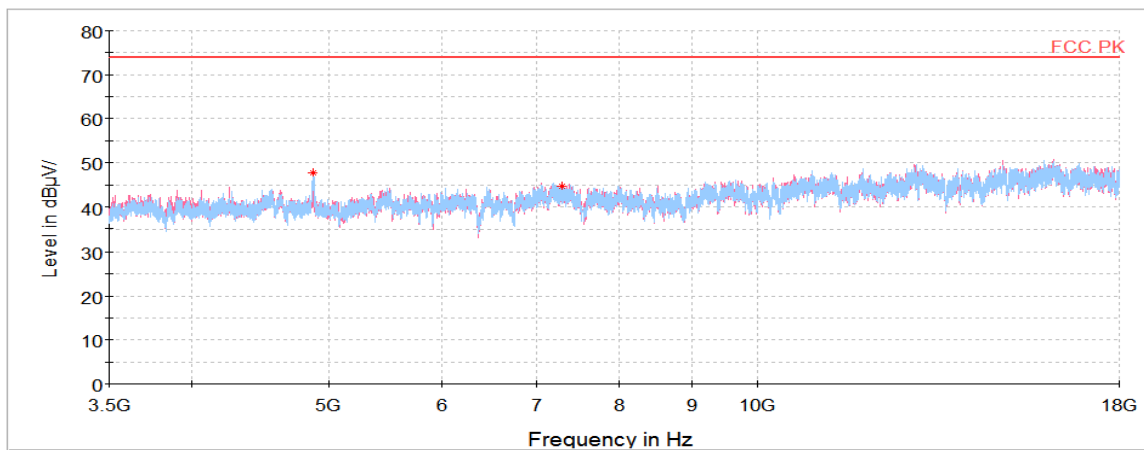
802.11n HT20_2 437 MHz

Frequency (MHz)	Pol. (V/H)	Reading (dB(μ V))	Ant. Factor (dB)	Amp. + Cable (dB)	DCF (dB)	Result (dB(μ V/m))	Limit (dB(μ V/m))	Margin (dB)
Peak data								
4 877.50 ¹⁾	H	67.00	33.83	-53.15	-	47.68	74.00	26.32
7 304.44 ¹⁾	H	60.05	35.30	-50.77	-	44.58	74.00	29.42
Average Data								
No spurious emissions were detected within 20 dB of the limit.								

Horizontal/Vertical for 1 GHz ~ 3.5 GHz



Horizontal/Vertical for 3.5 GHz ~ 18 GHz



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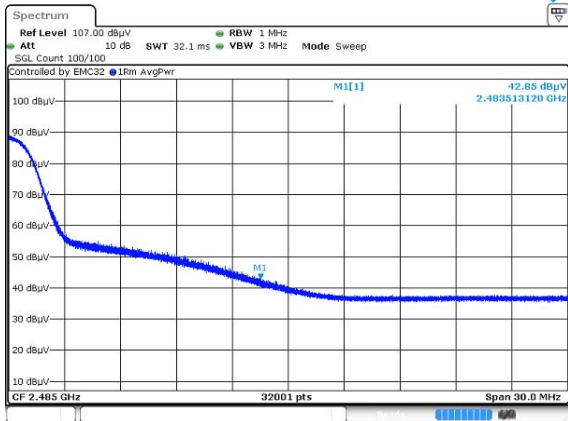
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802.11n HT20_2 462 MHz

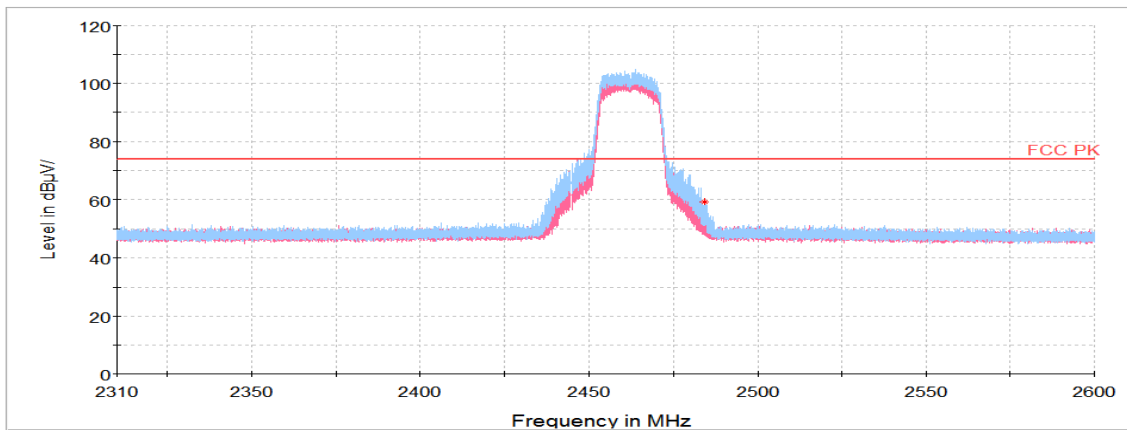
Frequency	Pol.	Reading	Ant. Factor	Amp. + Cable	DCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(μ V))	(dB)	(dB)	(dB)	(dB(μ V/m))	(dB(μ V/m))	(dB)
Peak data								
2 483.51 ¹⁾	H	54.89	32.17	-27.95	-	59.11	74.00	14.89
4 921.91 ¹⁾	V	63.88	33.85	-53.21	-	44.52	74.00	29.48
7 358.81 ¹⁾	V	60.25	35.30	-50.75	-	44.80	74.00	29.20
Average Data								
2 483.51 ¹⁾	H	42.85	32.17	-27.95	-	47.07	54.00	6.93

Average data



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Horizontal/Vertical for Band-edge



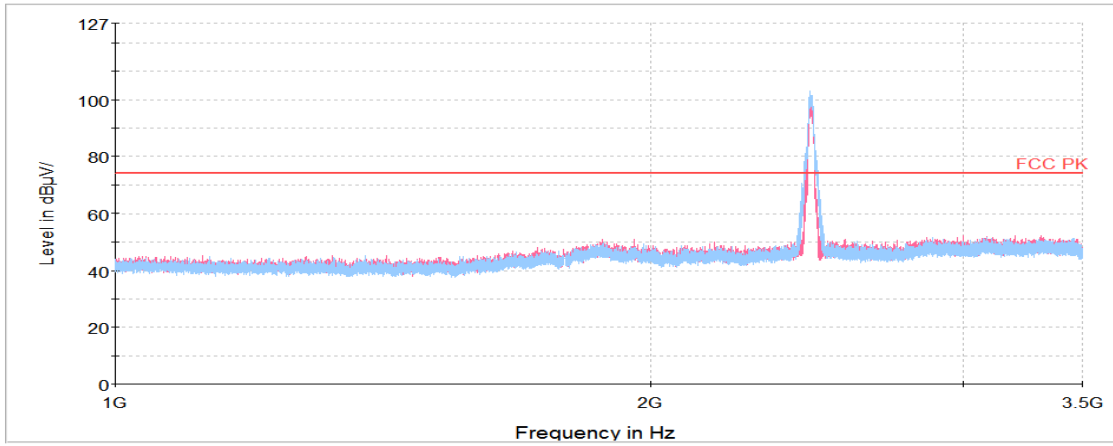
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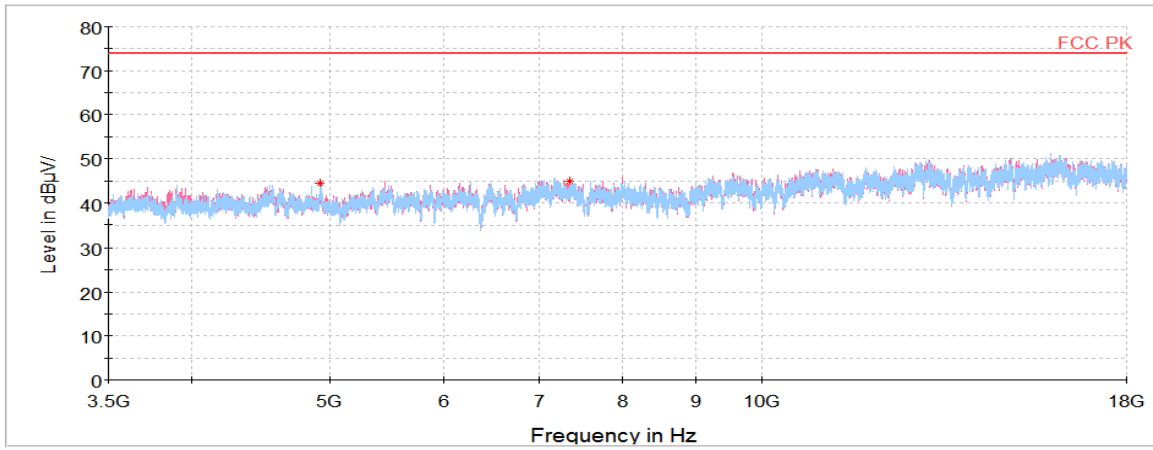
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Horizontal/Vertical for 1 GHz ~ 3.5 GHz



Horizontal/Vertical for 3.5 GHz ~ 18 GHz



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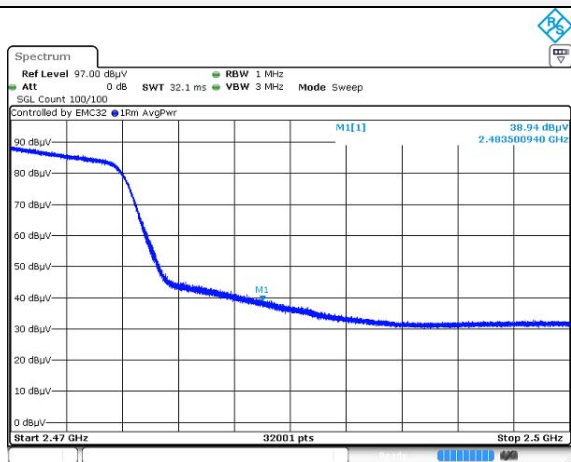
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802.11n HT20_2 467 MHz

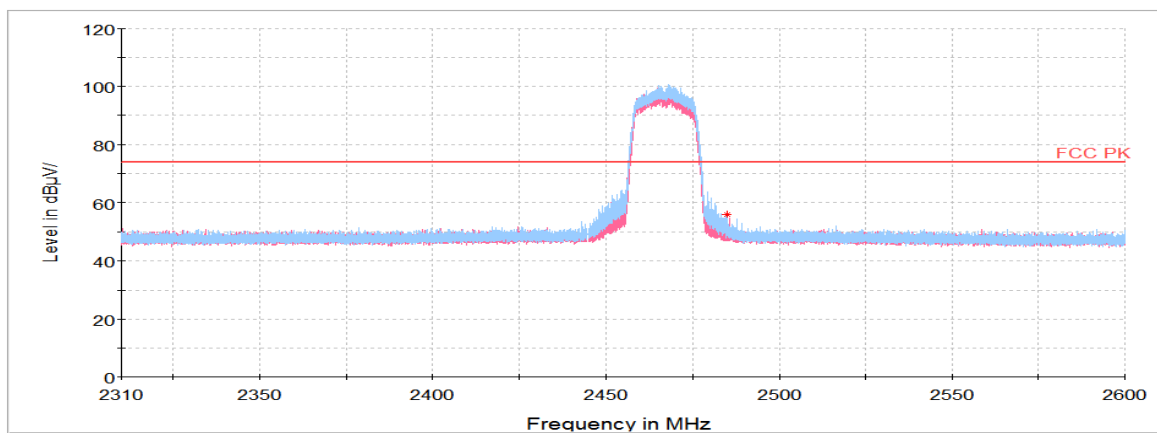
Frequency	Pol.	Reading	Ant. Factor	Amp. + Cable	DCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(μV))	(dB)	(dB)	(dB)	(dB(μV/m))	(dB(μV/m))	(dB)
Peak data								
2 483.50 ¹⁾	H	51.63	32.17	-27.95	-	55.85	74.00	18.15
4 927.34 ¹⁾	H	61.27	33.86	-53.23	-	41.90	74.00	32.10
7 425.88 ¹⁾	H	60.32	35.30	-50.74	-	44.88	74.00	29.12
Average Data								
2 483.50 ¹⁾	H	38.94	32.17	-27.95	-	43.16	54.00	10.84

Average data



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Horizontal/Vertical for Band-edge



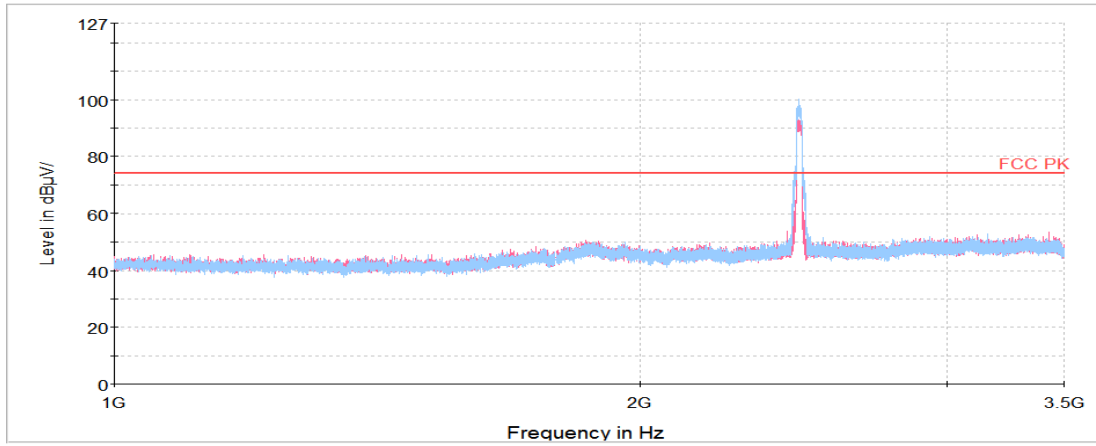
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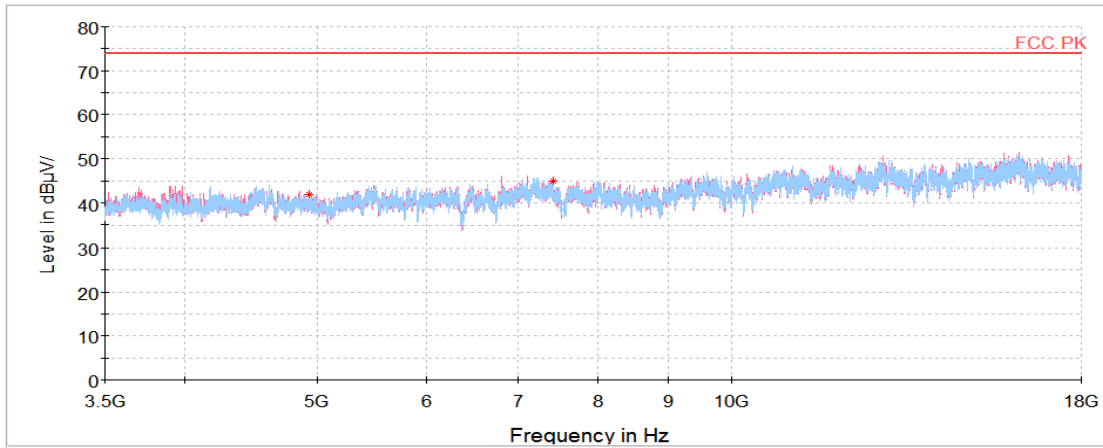
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Horizontal/Vertical for 1 GHz ~ 3.5 GHz



Horizontal/Vertical for 3.5 GHz ~ 18 GHz



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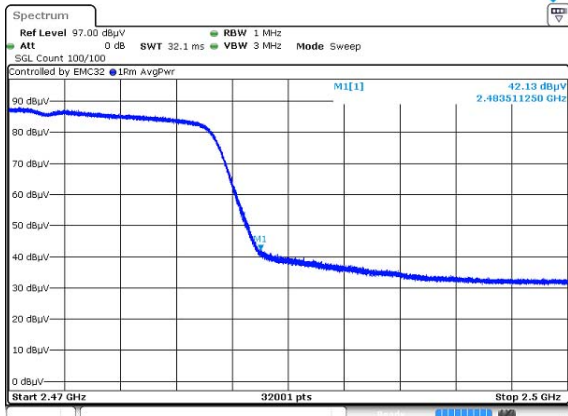
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802.11n HT20_2 472 MHz

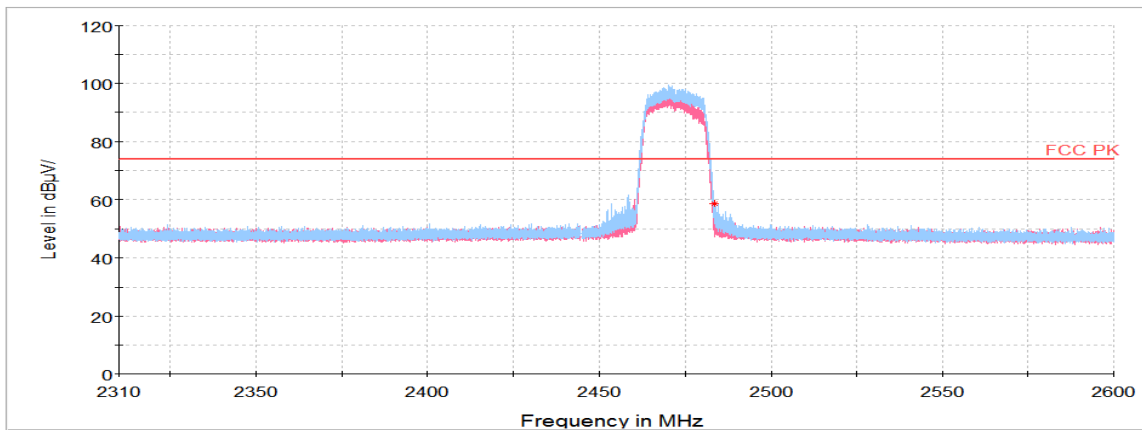
Frequency	Pol.	Reading	Ant. Factor	Amp. + Cable	DCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(μ V))	(dB)	(dB)	(dB)	(dB(μ V/m))	(dB(μ V/m))	(dB)
Peak data								
2 483.51 ¹⁾	H	54.32	32.17	-27.95	-	58.54	74.00	15.46
4 940.03 ¹⁾	V	61.46	33.86	-53.29	-	42.03	74.00	31.97
7 400.50 ¹⁾	V	60.86	35.30	-50.75	-	45.41	74.00	28.59
Average Data								
2 483.51 ¹⁾	H	42.13	32.17	-27.95	-	46.35	54.00	7.65

Average data



Blank

Horizontal/Vertical for Band-edge



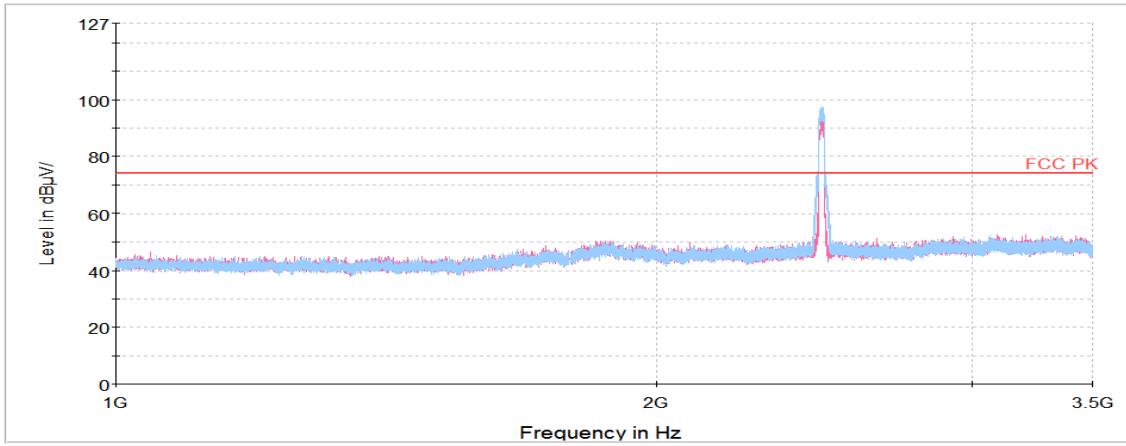
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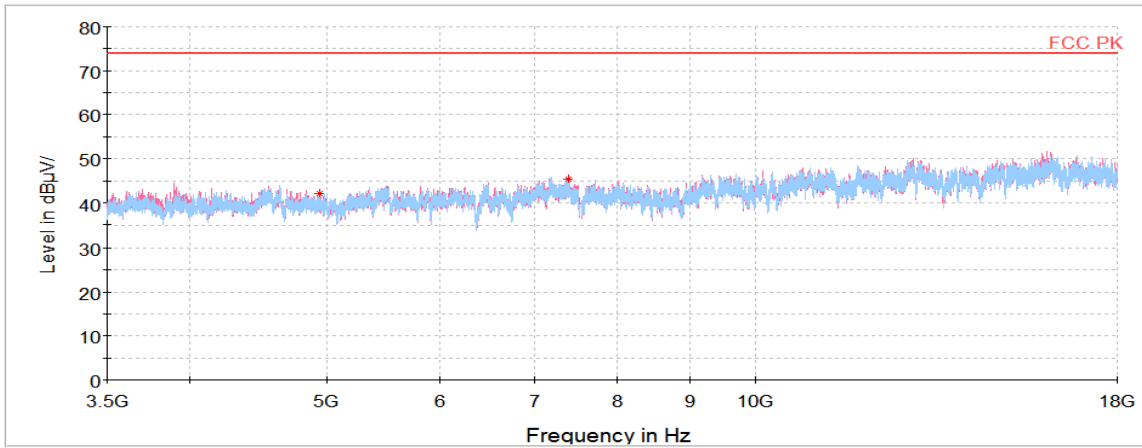
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Horizontal/Vertical for 1 GHz ~ 3.5 GHz



Horizontal/Vertical for 3.5 GHz ~ 18 GHz



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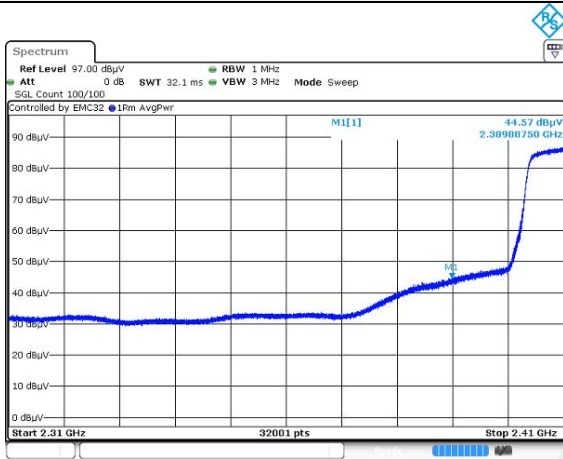
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802.11n HT40_2 422 MHz

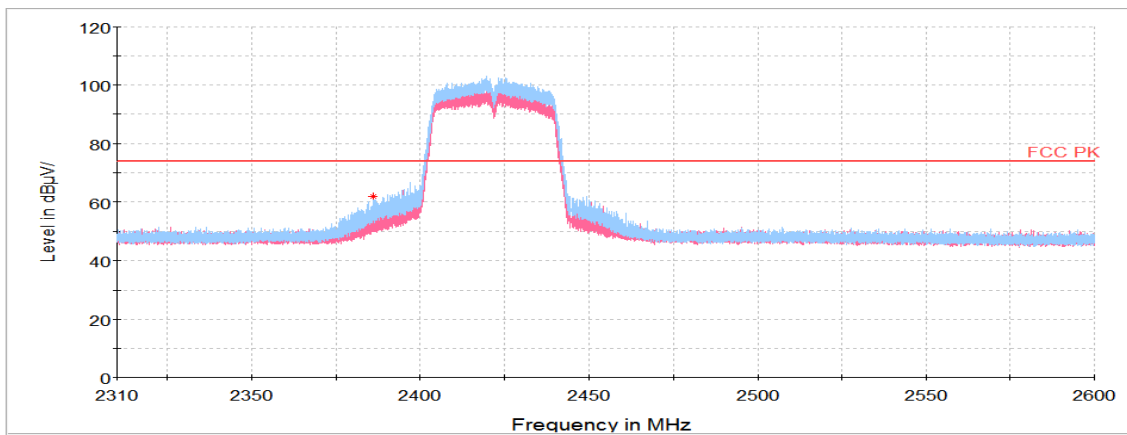
Frequency	Pol.	Reading	Ant. Factor	Amp. + Cable	DCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(μ V))	(dB)	(dB)	(dB)	(dB(μ V/m))	(dB(μ V/m))	(dB)
Peak data								
2 389.99 ¹⁾	H	57.74	32.00	-27.88	-	61.86	74.00	12.14
4 838.98 ¹⁾	H	62.04	33.80	-53.21	-	42.63	74.00	31.37
7 290.39 ¹⁾	V	60.63	35.30	-50.77	-	45.16	74.00	28.84
Average Data								
2 389.99 ¹⁾	H	44.57	32.00	-27.88	-	48.69	54.00	5.31

Average data



Blank

Horizontal/Vertical for Band-edge



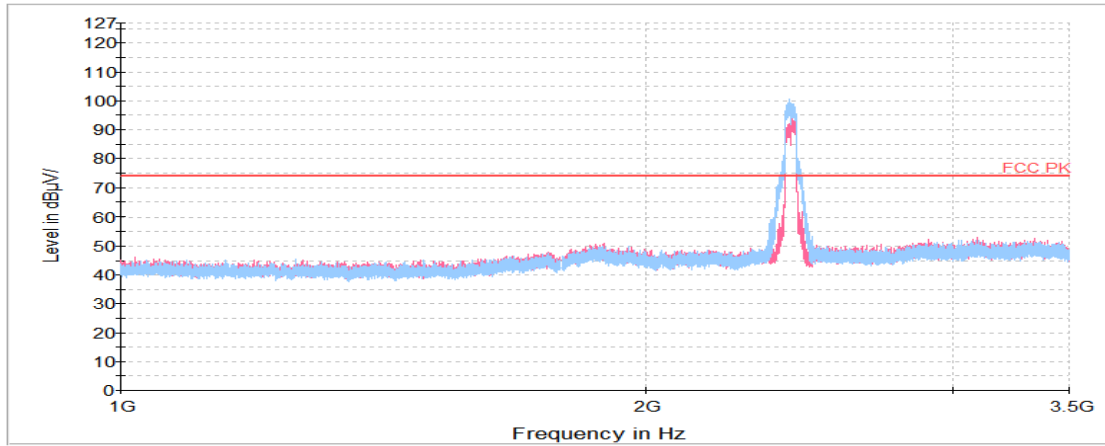
KCTL Inc.

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Suwon-si, Gyeonggi-do, 16677, Korea
TEL: 82-31-285-0894 FAX: 82-505-299-8311
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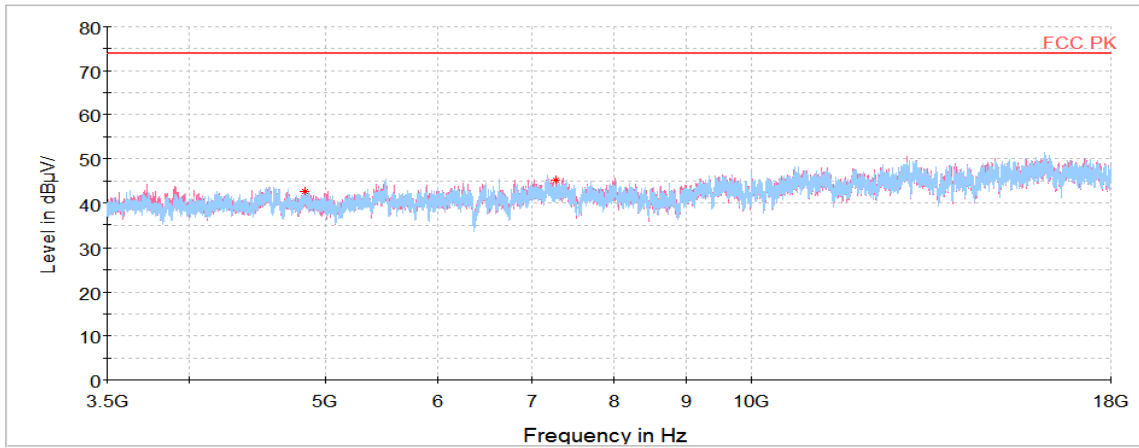
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Horizontal/Vertical for 1 GHz ~ 3.5 GHz



Horizontal/Vertical for 3.5 GHz ~ 18 GHz



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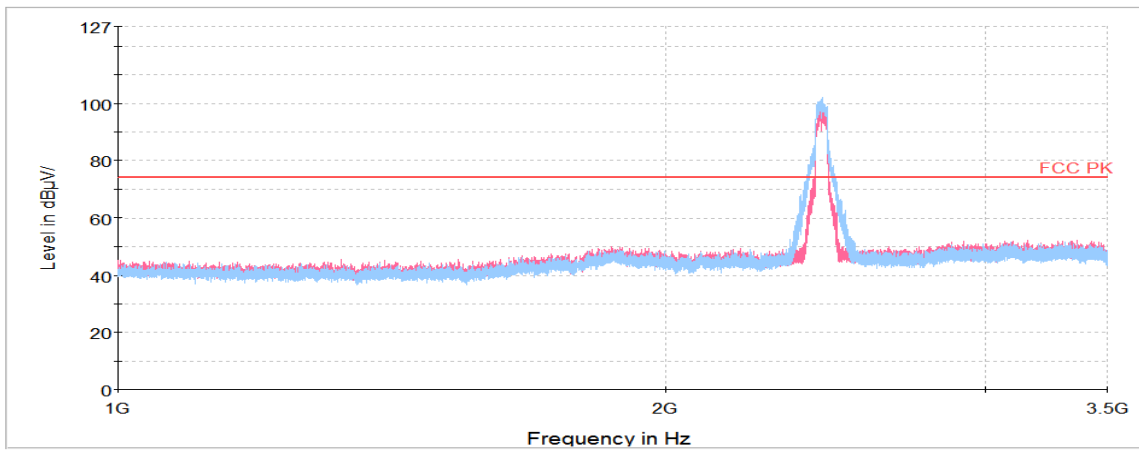
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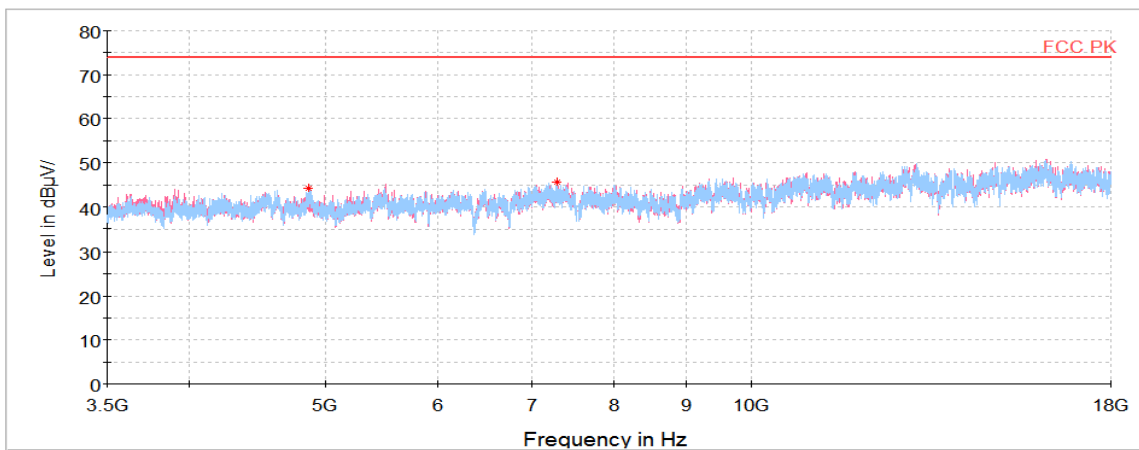
802.11n HT40_2 437 MHz

Frequency (MHz)	Pol. (V/H)	Reading (dB(μV))	Ant. Factor (dB)	Amp. + Cable (dB)	DCF (dB)	Result (dB(μV/m))	Limit (dB(μV/m))	Margin (dB)
Peak data								
4 863.45 ¹⁾	H	63.60	33.82	-53.17	-	44.25	74.00	29.75
7 305.34 ¹⁾	H	60.99	35.30	-50.77	-	45.52	74.00	28.48
Average Data								
No spurious emissions were detected within 20 dB of the limit.								

Horizontal/Vertical for 1 GHz ~ 3.5 GHz



Horizontal/Vertical for 3.5 GHz ~ 18 GHz



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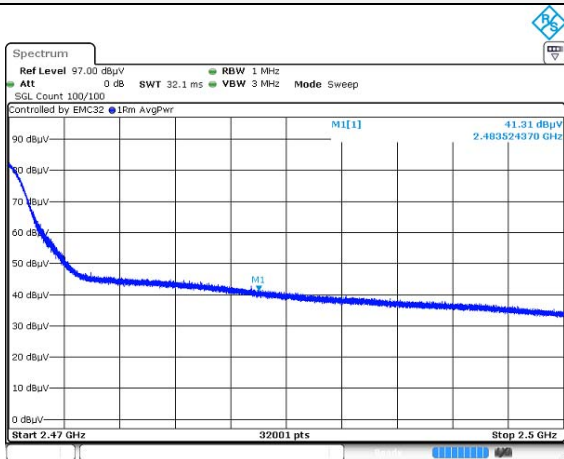
Report No.:
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802.11n HT40_2 452 MHz

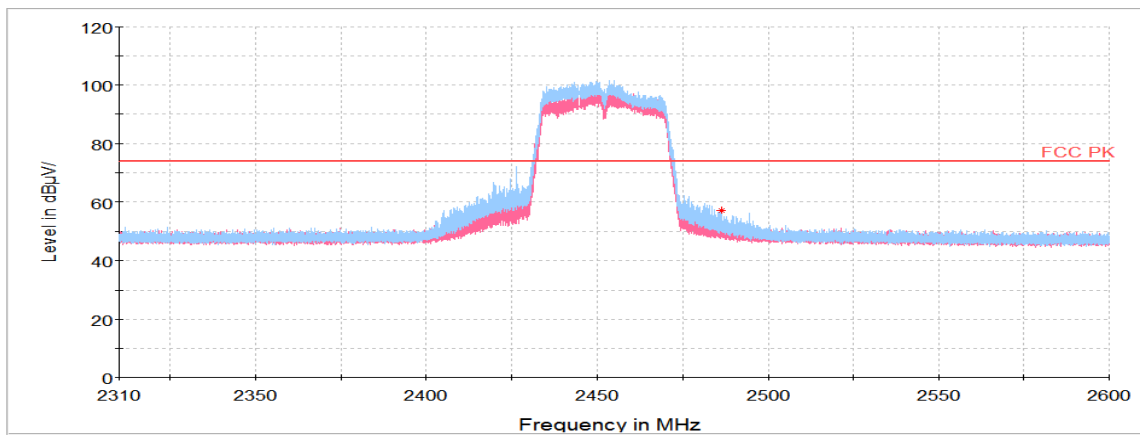
Frequency	Pol.	Reading	Ant. Factor	Amp. + Cable	DCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(μV))	(dB)	(dB)	(dB)	(dB(μV/m))	(dB(μV/m))	(dB)
Peak data								
2 483.52 ¹⁾	H	52.81	32.17	-27.95	-	57.03	74.00	16.97
4 901.52 ¹⁾	H	61.37	33.84	-53.12	-	42.09	74.00	31.91
7 383.73 ¹⁾	H	60.35	35.30	-50.75	-	44.90	74.00	29.10
Average Data								
2 483.52 ¹⁾	H	41.31	32.17	-27.95	-	45.53	54.00	8.47

Average data



Blank

Horizontal/Vertical for Band-edge



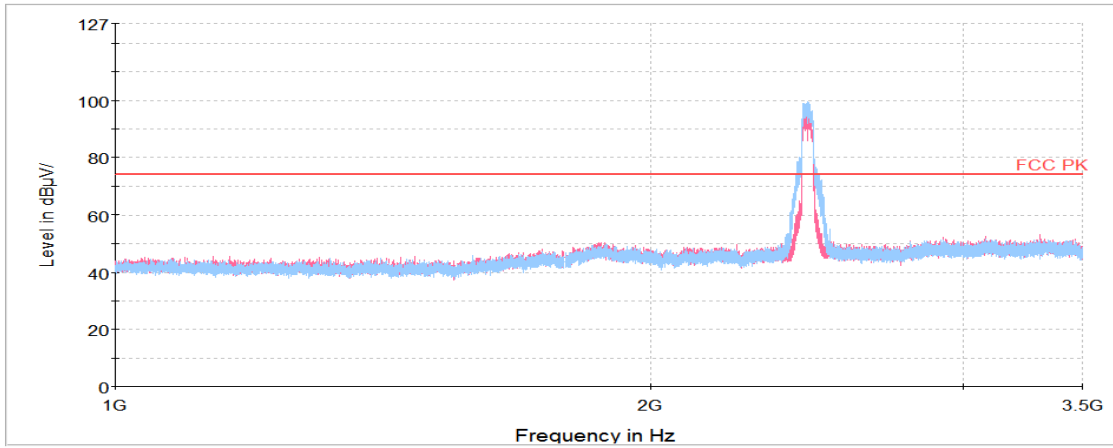
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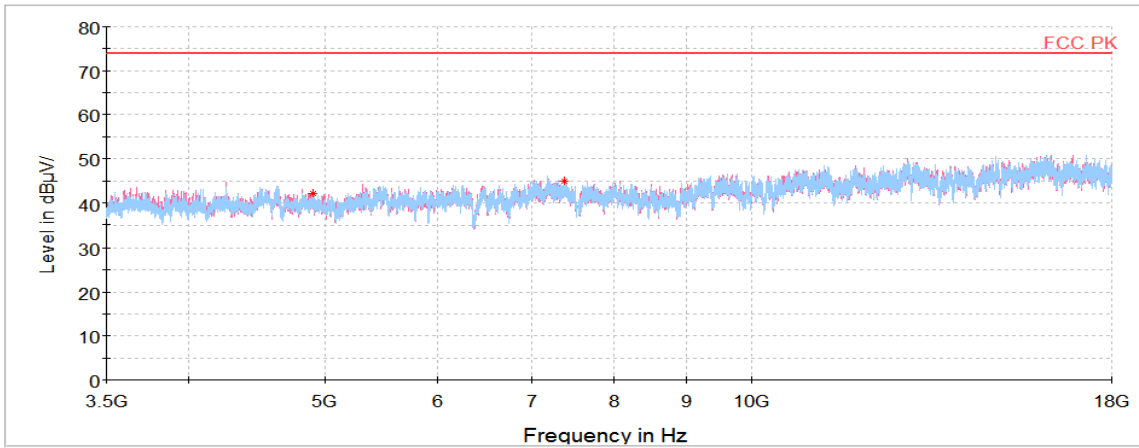
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KR21-SRF0064-A
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Horizontal/Vertical for 1 GHz ~ 3.5 GHz



Horizontal/Vertical for 3.5 GHz ~ 18 GHz



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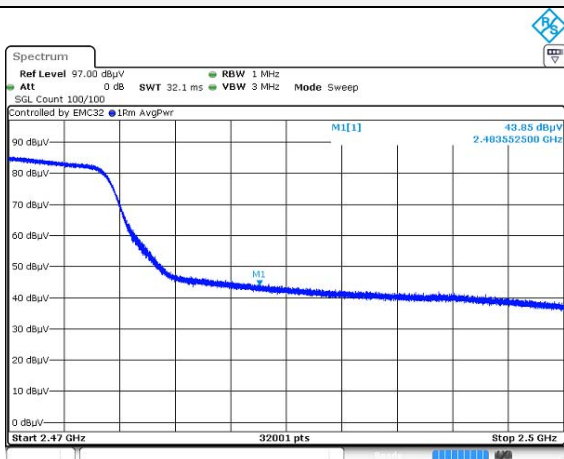
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KR21-SRF0064-A
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802.11n HT40_2 457 MHz

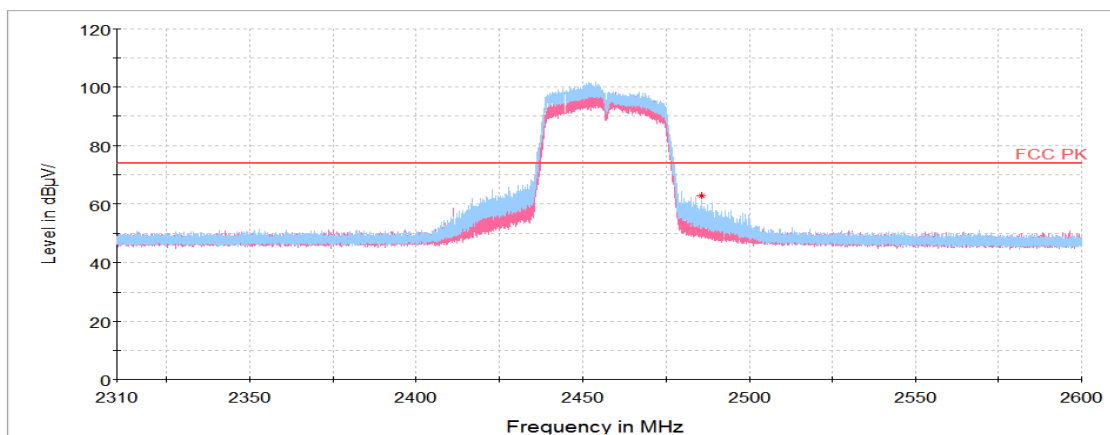
Frequency	Pol.	Reading	Ant. Factor	Amp. + Cable	DCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(μV))	(dB)	(dB)	(dB)	(dB(μV/m))	(dB(μV/m))	(dB)
Peak data								
2 483.55 ¹⁾	H	58.43	32.17	-27.95	-	62.65	74.00	11.35
4 942.75 ¹⁾	V	61.21	33.87	-53.30	-	41.78	74.00	32.22
7 386.45 ¹⁾	V	61.33	35.30	-50.75	-	45.88	74.00	28.12
Average Data								
2 483.55 ¹⁾	H	43.85	32.17	-27.95	-	48.07	54.00	5.93

Average data



Blank

Horizontal/Vertical for Band-edge



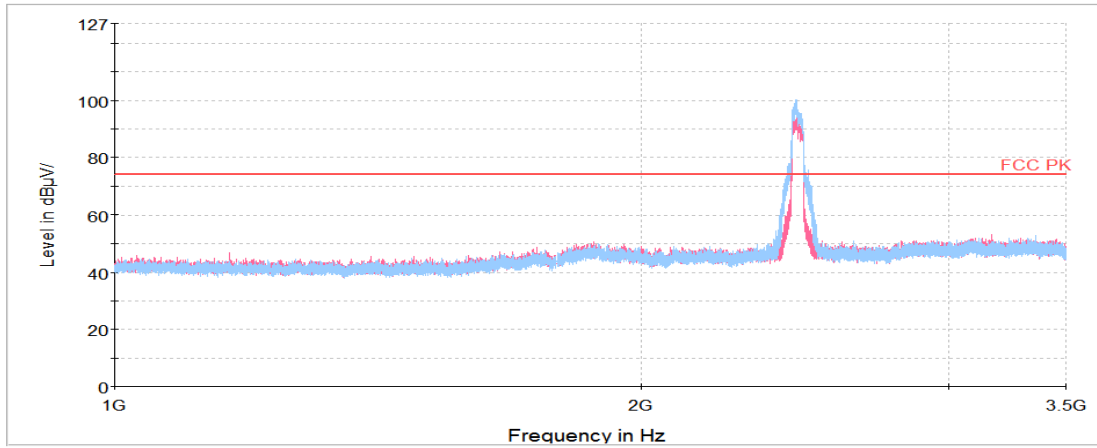
KCTL Inc.

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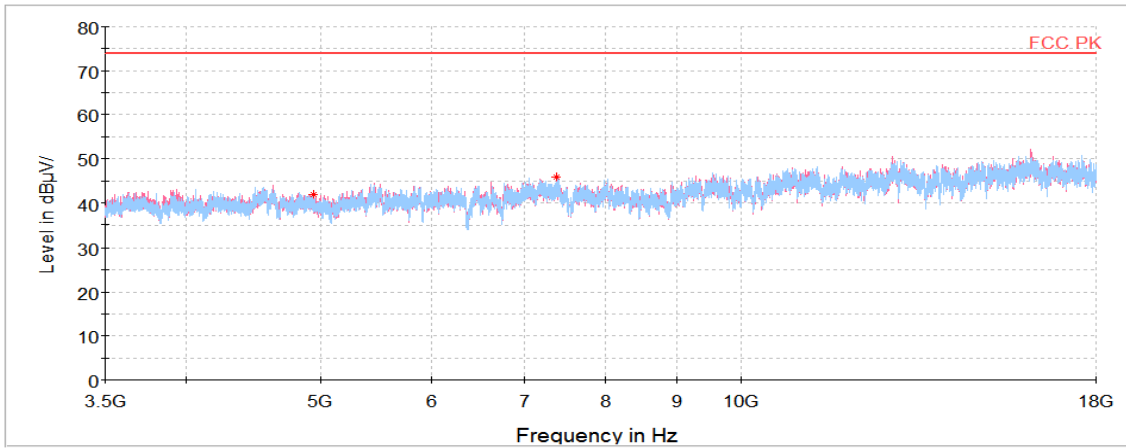
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Horizontal/Vertical for 1 GHz ~ 3.5 GHz



Horizontal/Vertical for 3.5 GHz ~ 18 GHz



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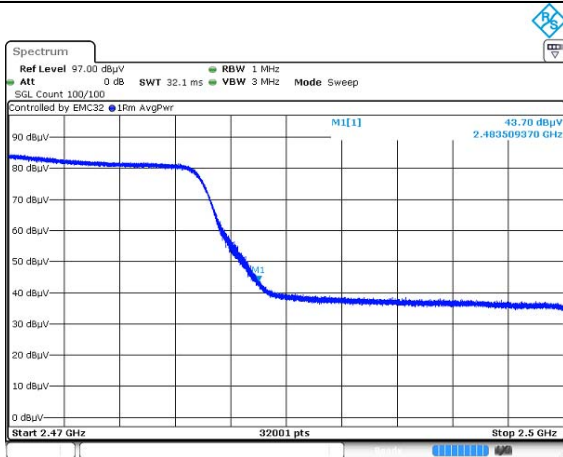
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802.11n HT40_2 462 MHz

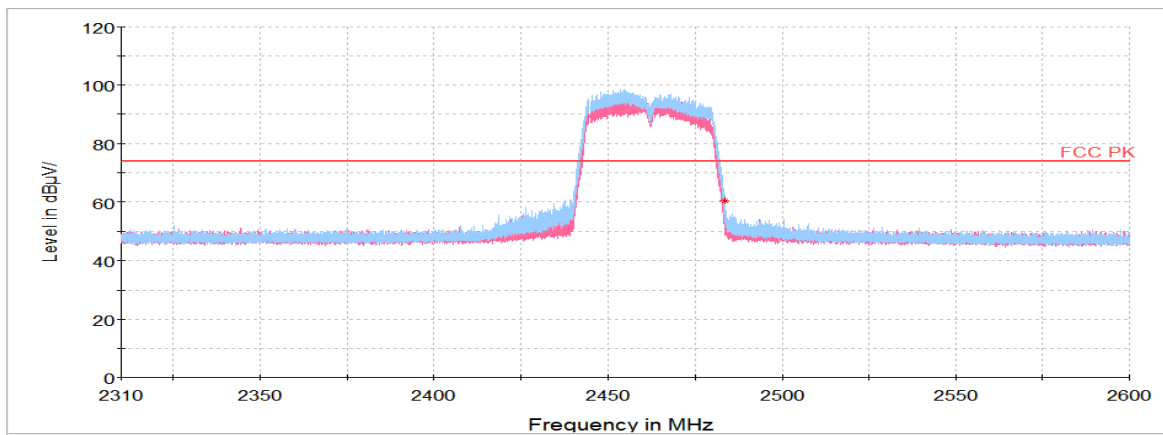
Frequency	Pol.	Reading	Ant. Factor	Amp. + Cable	DCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(μV))	(dB)	(dB)	(dB)	(dB(μV/m))	(dB(μV/m))	(dB)
Peak data								
2 483.51 ¹⁾	H	55.93	32.17	-27.95	-	60.15	74.00	13.85
4 924.63 ¹⁾	H	60.50	33.85	-53.22	-	41.13	74.00	32.87
7 377.39 ¹⁾	V	60.39	35.30	-50.75	-	44.94	74.00	29.06
Average Data								
2 483.51 ¹⁾	H	43.70	32.17	-27.95	-	47.92	54.00	6.08

Average data



Blank

Horizontal/Vertical for Band-edge



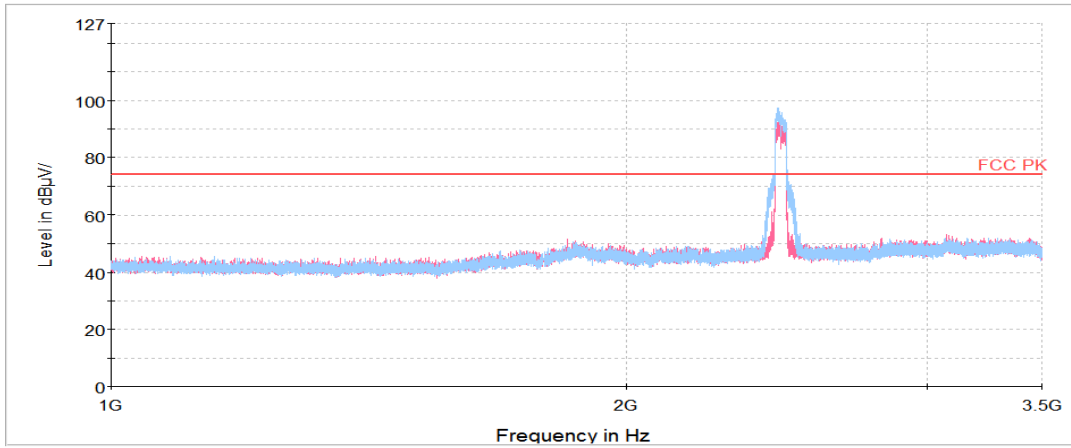
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Suwon-si, Gyeonggi-do, 16677, Korea
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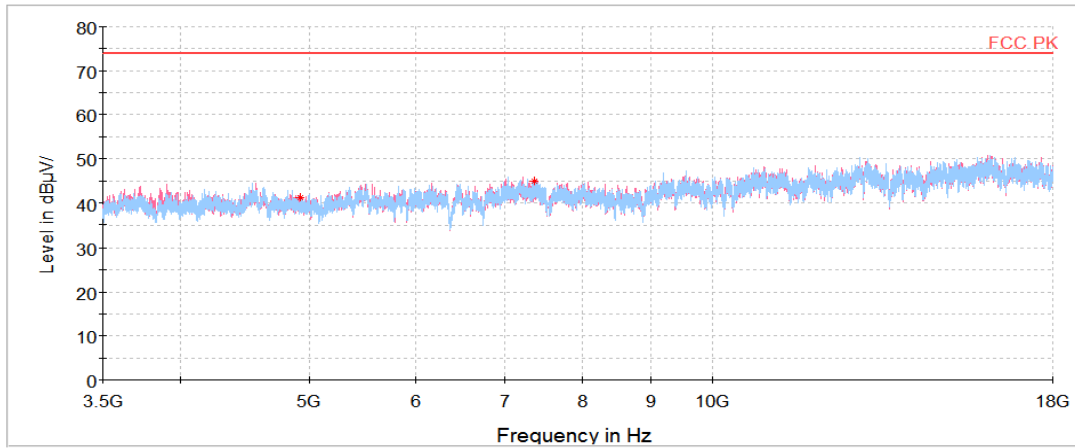
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Horizontal/Vertical for 1 GHz ~ 3.5 GHz



Horizontal/Vertical for 3.5 GHz ~ 18 GHz



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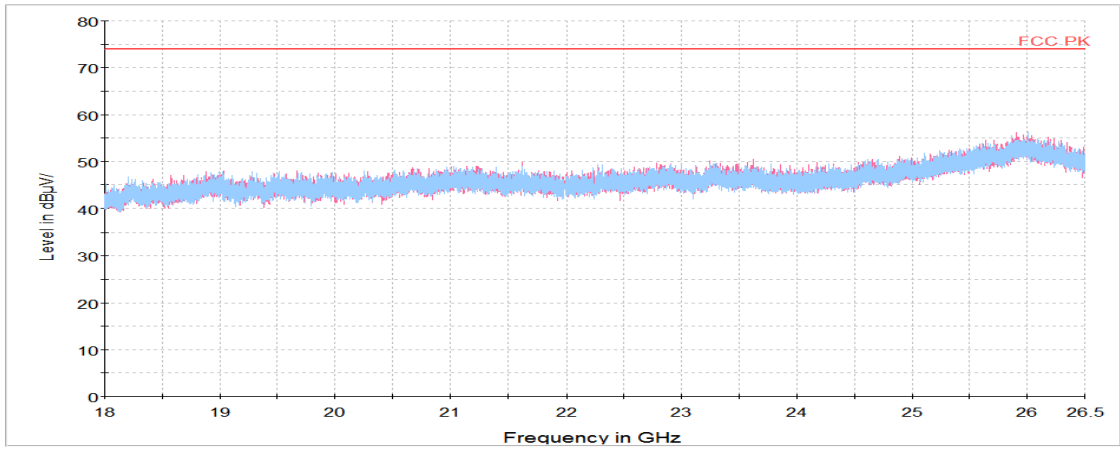
65, Sinwon-ro, Yeongtong-gu,
Suwon-si, Gyeonggi-do, 16677, Korea
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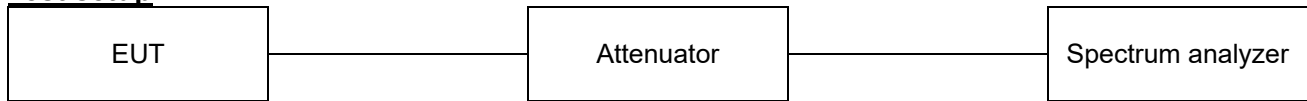
Test results (Above 18 GHz) – Worst case: MIMO_802.11n HT20 mode / 2 437 MHz

Horizontal/Vertical for 18 GHz ~ 26.5 GHz



7.5. Conducted Spurious Emission

Test setup



Limit

According to §15.247(d) and RSS-247(5.5), In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operation, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation specified in §15.209(a) is not required. In addition, radiated emission limits specified in §15.209(a) (see §15.205(c)).

Limit : 20 dBc

Test procedure

ANSI C63.10 - Section 11.11.3, 14.3.3

KDB 558074 D01 v05 - Section 8.5

KDB 662911 D01 v02r01 – section (E)(3)(b)

Test settings

Establish an emission level by using the following procedure:

- 1) Set the center frequency and span to encompass frequency range to be measured.
- 2) Set the RBW = 100 kHz
- 3) Set the VBW \geq [3 x RBW]
- 4) Detector = peak
- 5) Sweep time = auto couple
- 6) Trace mode = max hold
- 7) Allow trace to fully stabilize.
- 8) Use the peak marker function to determine the maximum amplitude level.

Ensure that the amplitude of all unwanted emissions outside of the authorized frequency band (excluding restricted frequency bands) is attenuated by at least the minimum requirements specified in 11.11. Report the three highest emissions relative to the limit.

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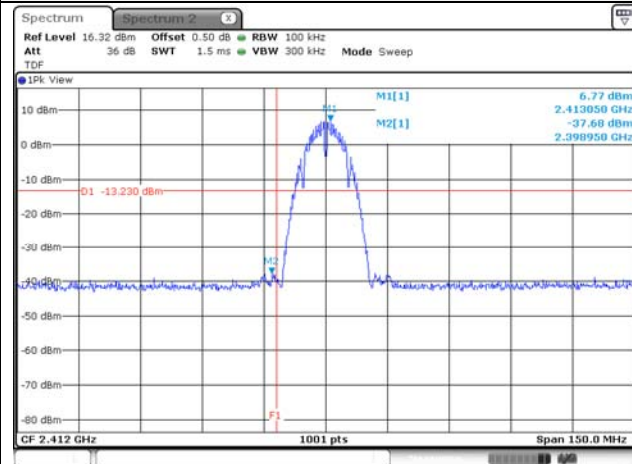


Test results

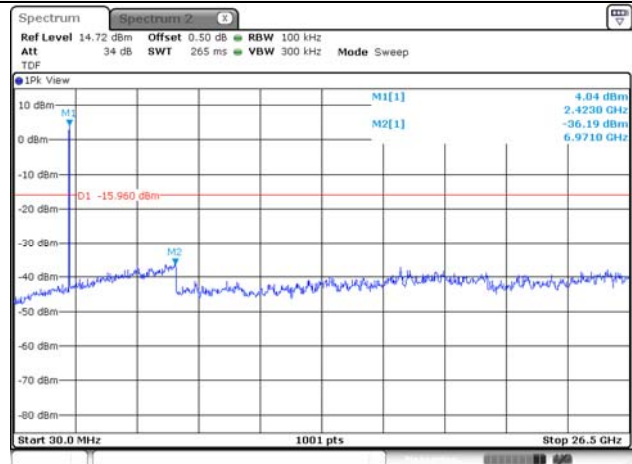
SISO_ANT 1

802.11b

Conducted band-edge / 2 412 MHz



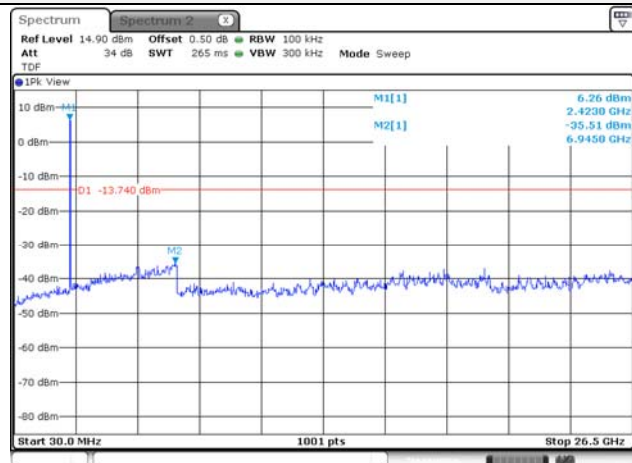
Conducted spurious / 2 412 MHz



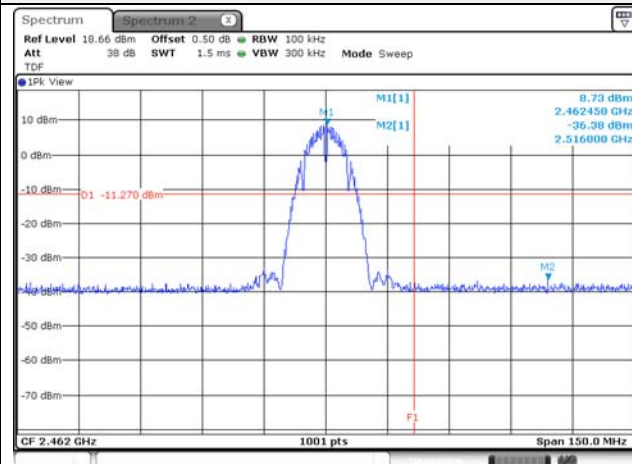
Conducted band-edge / 2 437 MHz

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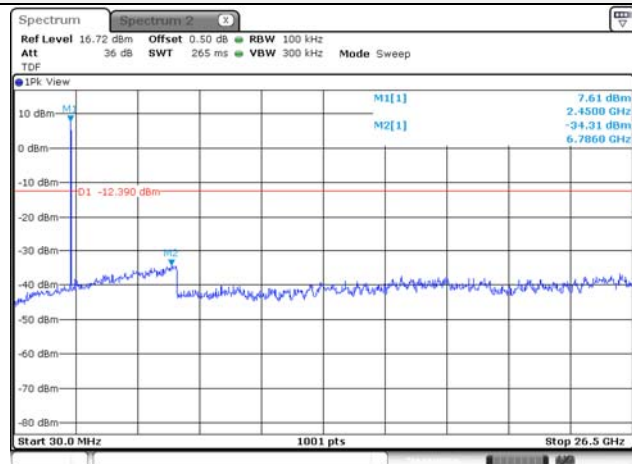
Conducted spurious / 2 437 MHz



Conducted band-edge / 2 462 MHz



Conducted spurious / 2 462 MHz



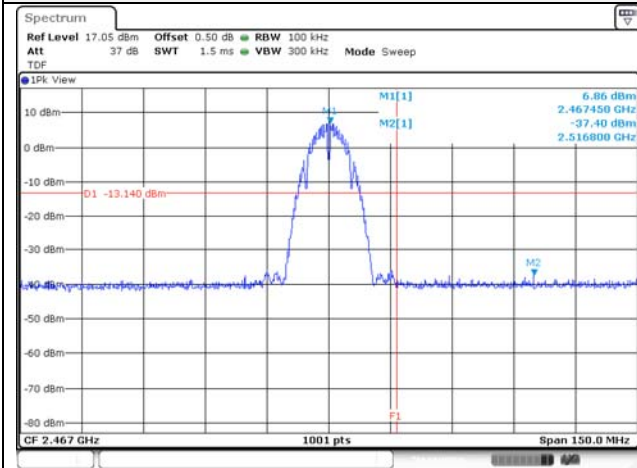
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Suwon-si, Gyeonggi-do, 16677, Korea
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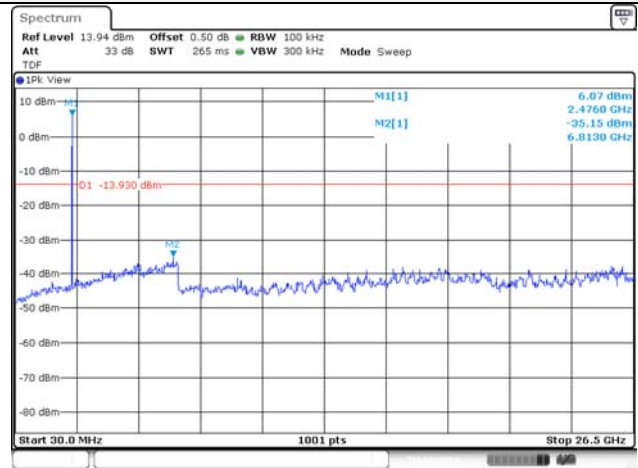
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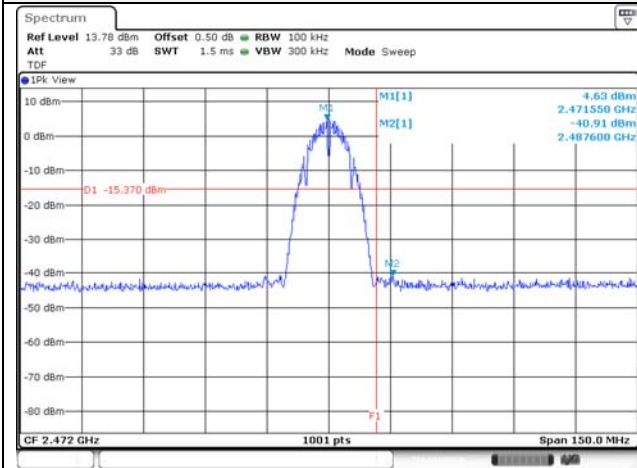
Conducted band-edge / 2 467 MHz



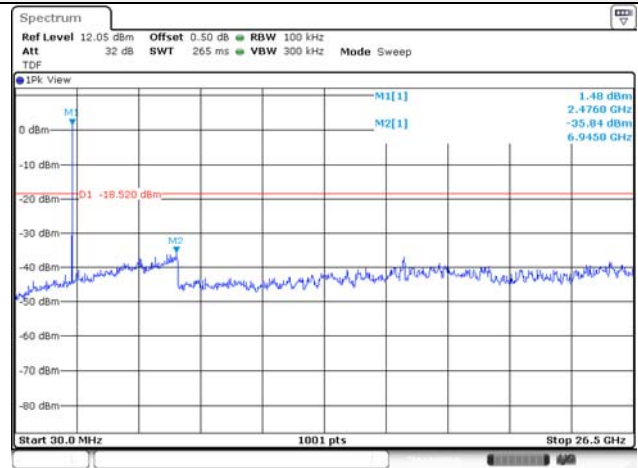
Conducted spurious / 2 467 MHz



Conducted band-edge / 2 472 MHz



Conducted spurious / 2 472 MHz



KCTL Inc.

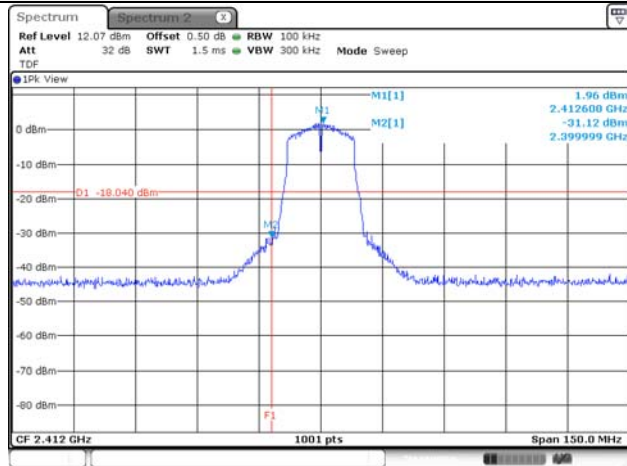
65, Sinwon-ro, Yeongtong-gu,
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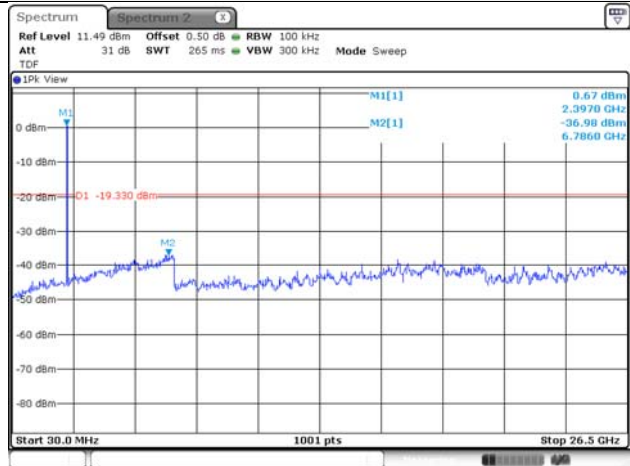


802.11g

Conducted band-edge / 2 412 MHz



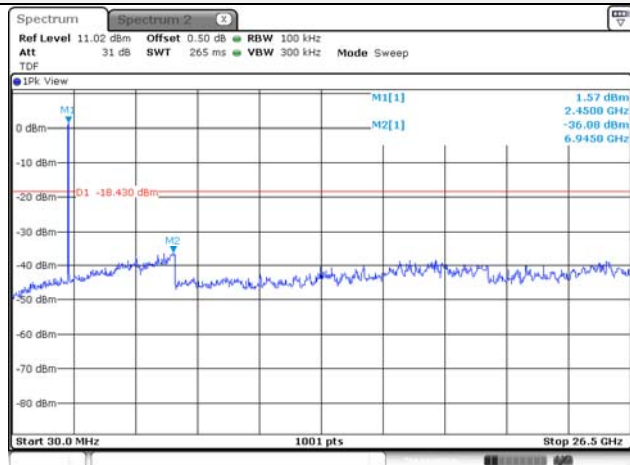
Conducted spurious / 2 412 MHz



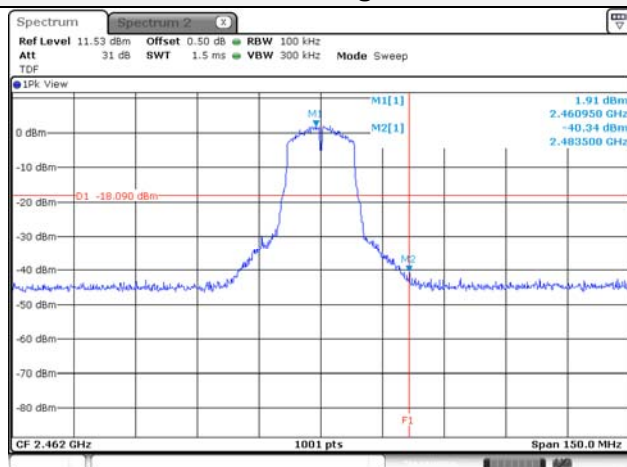
Conducted band-edge / 2 437 MHz

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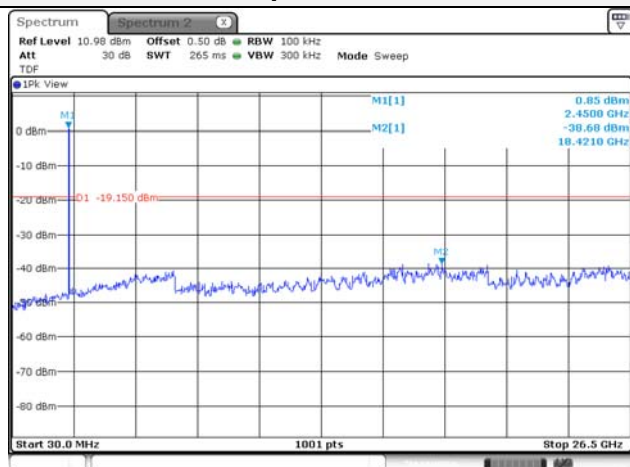
Conducted spurious / 2 437 MHz



Conducted band-edge / 2 462 MHz



Conducted spurious / 2 462 MHz



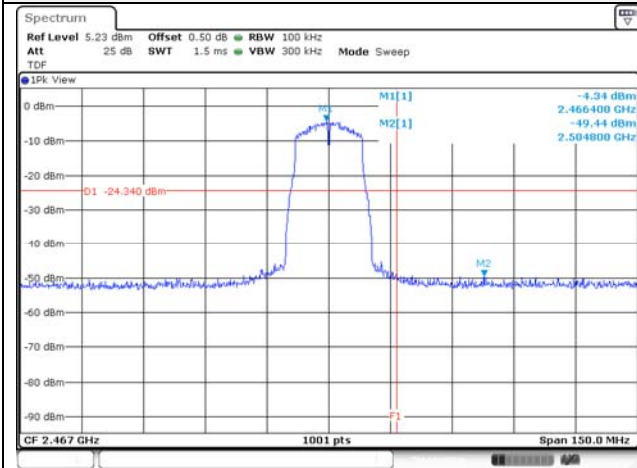
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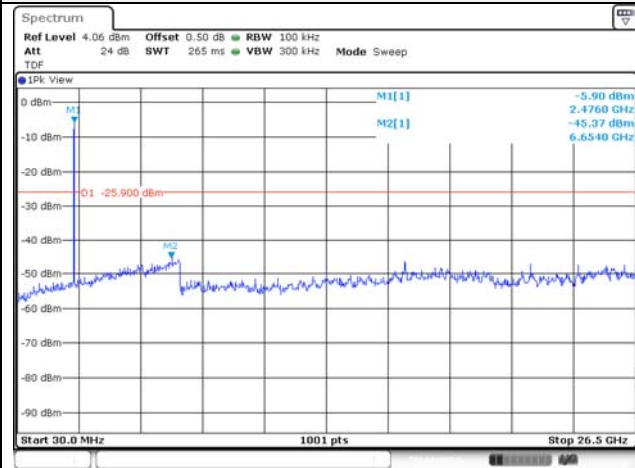
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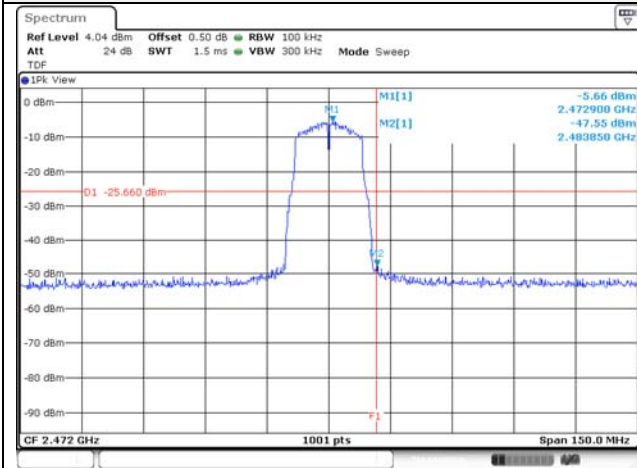
Conducted band-edge / 2 467 MHz



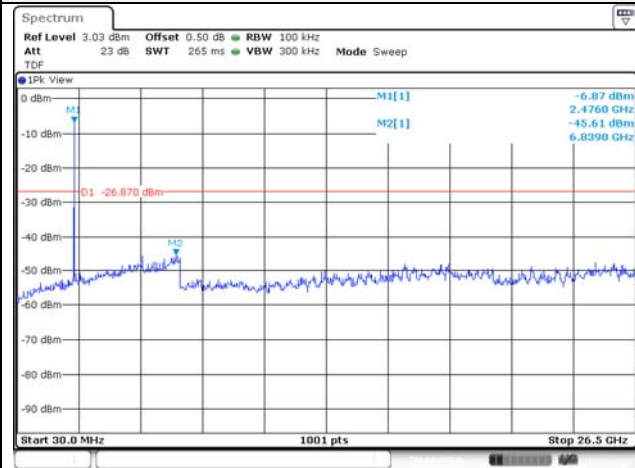
Conducted spurious / 2 467 MHz



Conducted band-edge / 2 472 MHz



Conducted spurious / 2 472 MHz



KCTL Inc.

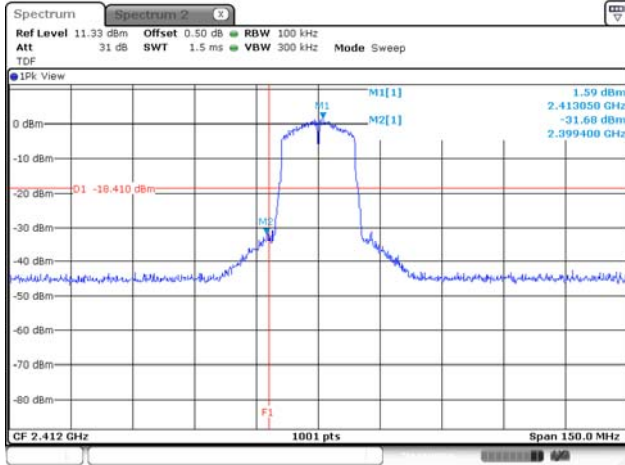
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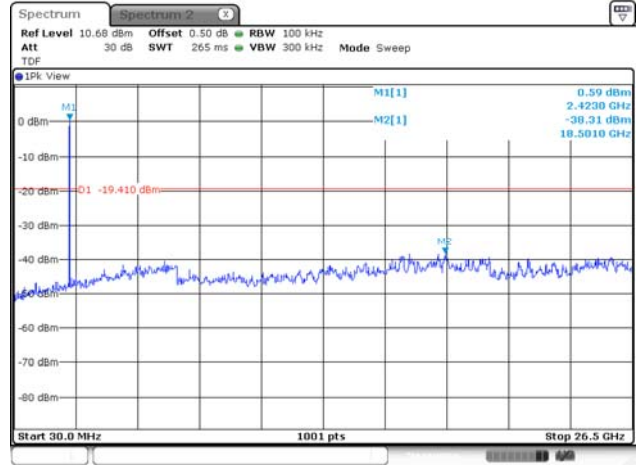


802.11n HT20

Conducted band-edge / 2 412 MHz



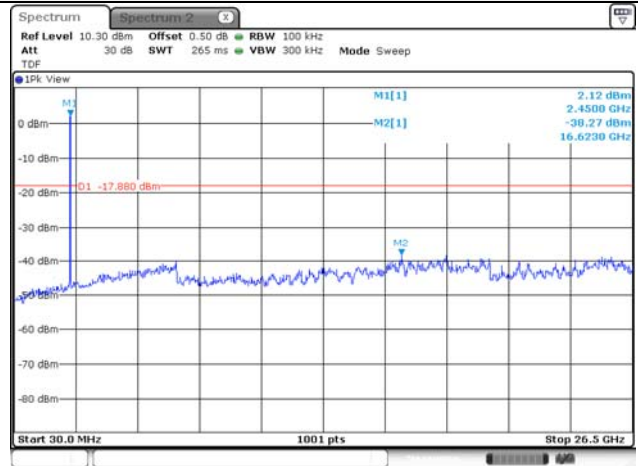
Conducted spurious / 2 412 MHz



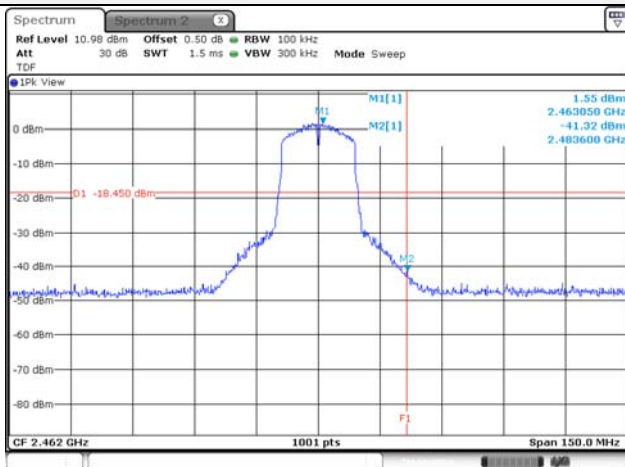
Conducted band-edge / 2 437 MHz

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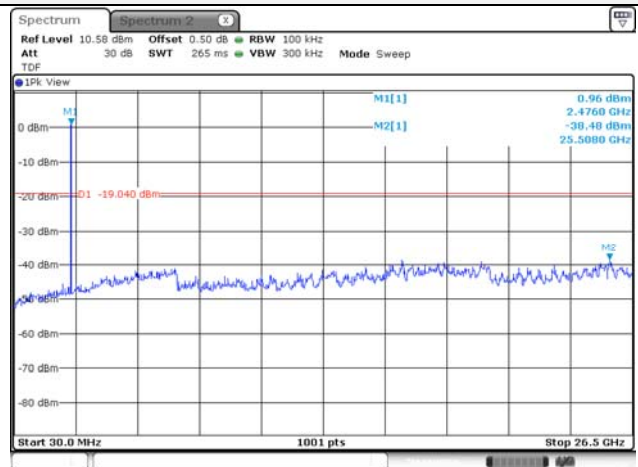
Conducted spurious / 2 437 MHz



Conducted band-edge / 2 462 MHz



Conducted spurious / 2 462 MHz



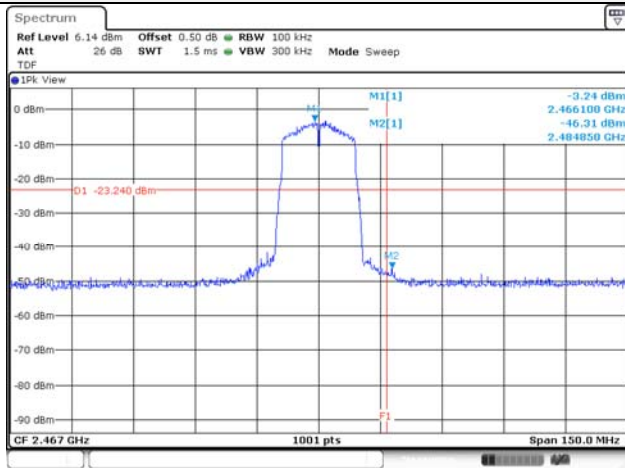
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Suwon-si, Gyeonggi-do, 16677, Korea
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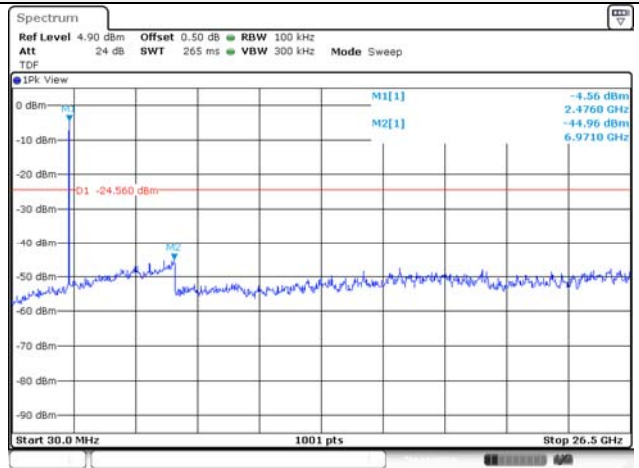
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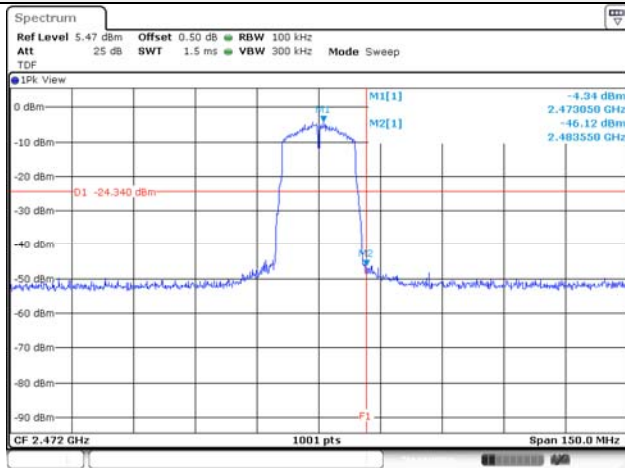
Conducted band-edge / 2 467 MHz



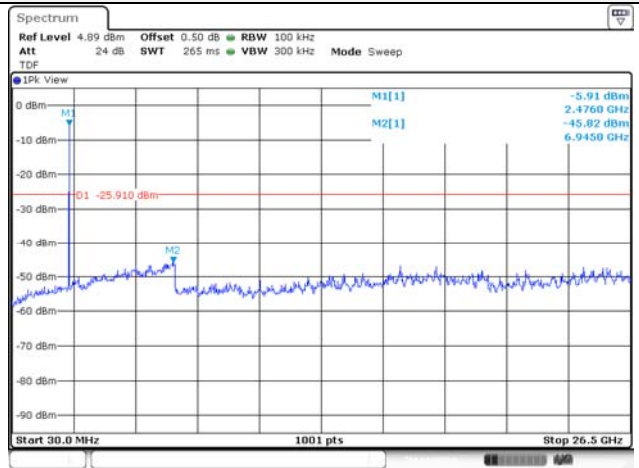
Conducted spurious / 2 467 MHz



Conducted band-edge / 2 472 MHz



Conducted spurious / 2 472 MHz



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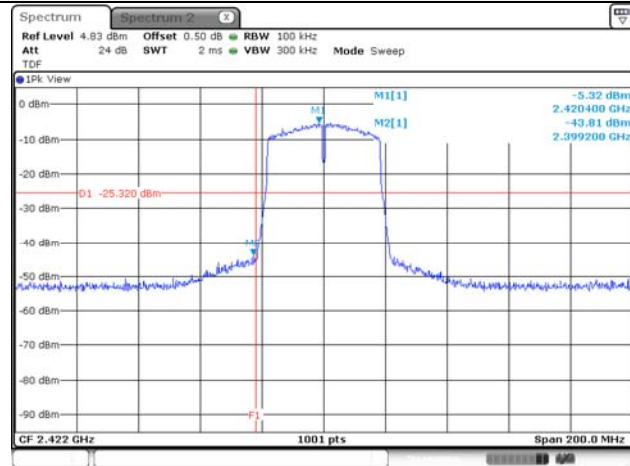
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Suwon-si, Gyeonggi-do, 16677, Korea
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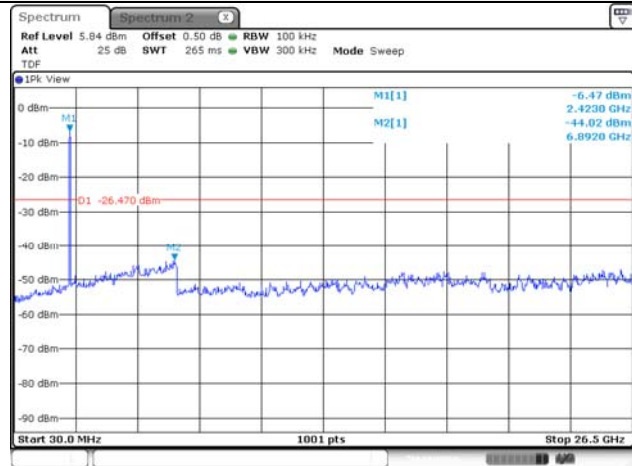


802.11n HT40

Conducted band-edge / 2 422 MHz



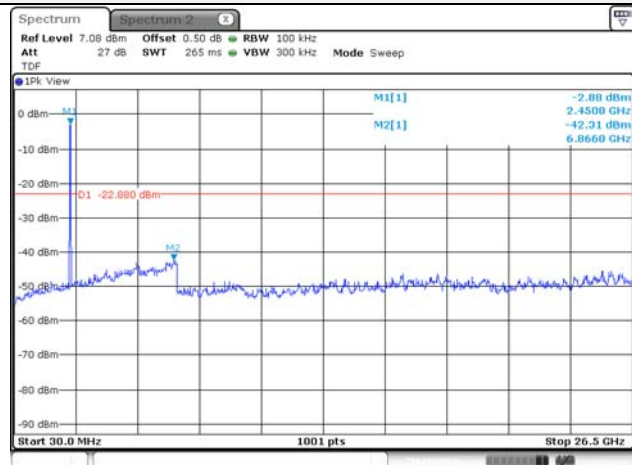
Conducted spurious / 2 422 MHz



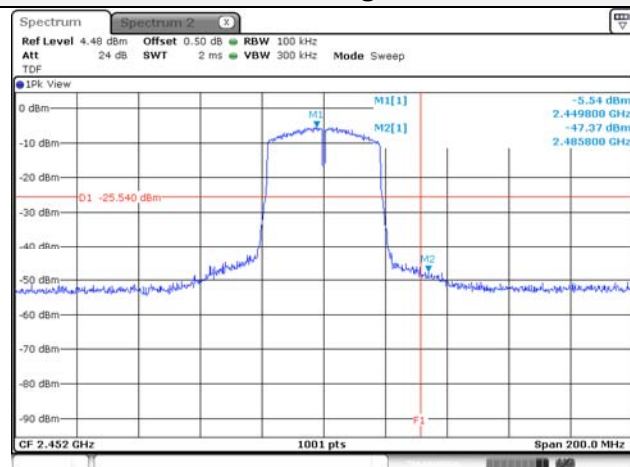
Conducted band-edge / 2 437 MHz

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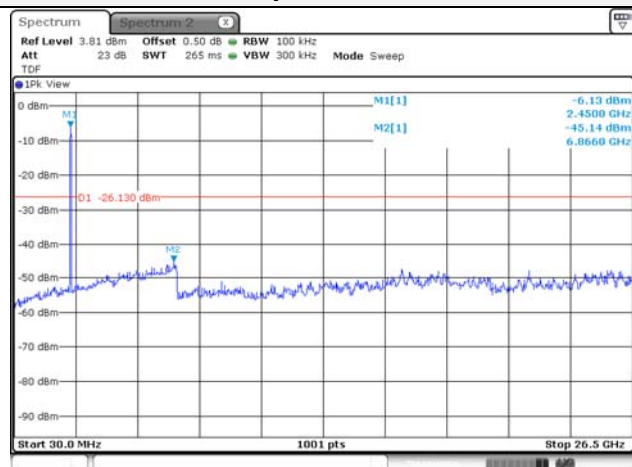
Conducted spurious / 2 437 MHz



Conducted band-edge / 2 452 MHz



Conducted spurious / 2 452 MHz



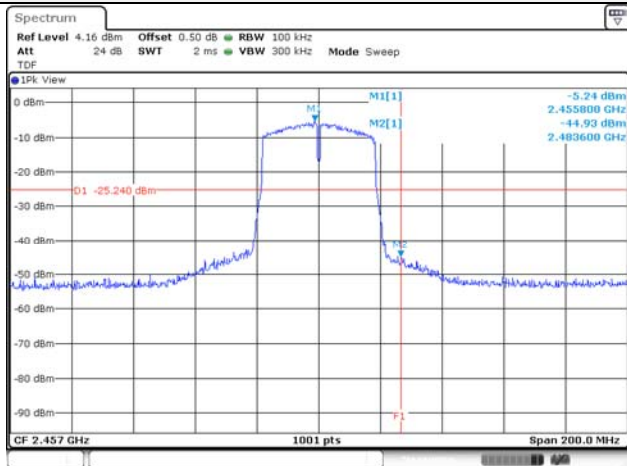
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Suwon-si, Gyeonggi-do, 16677, Korea
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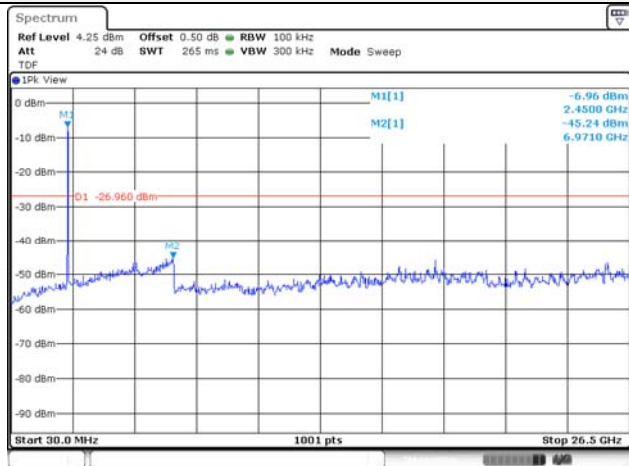
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KR21-SRF0064-A
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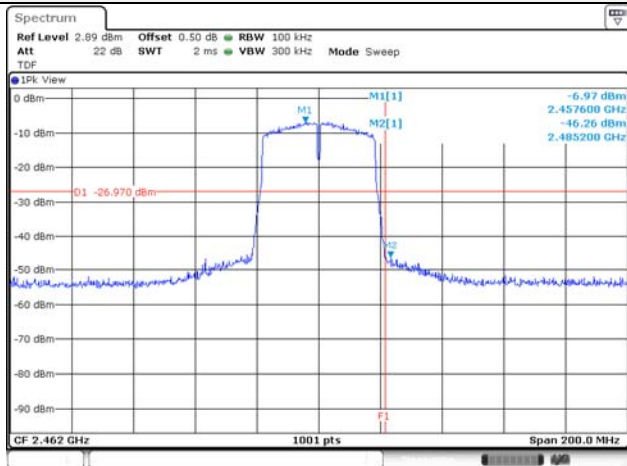
Conducted band-edge / 2 457 MHz



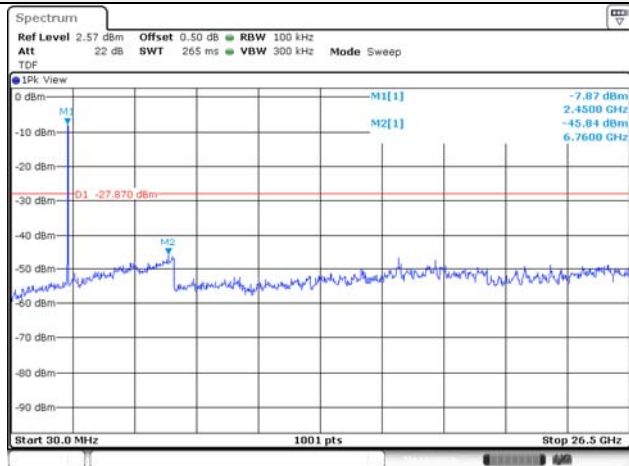
Conducted spurious / 2 457 MHz



Conducted band-edge / 2 462 MHz



Conducted spurious / 2 462 MHz



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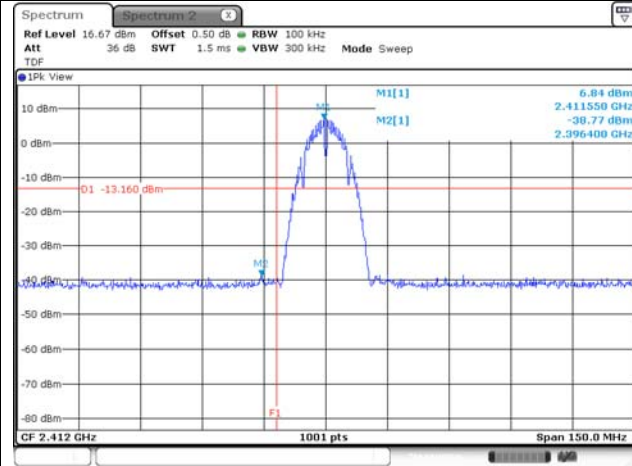
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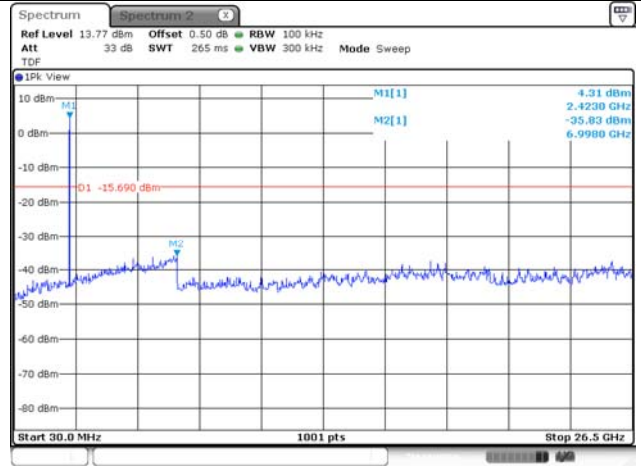
SISO_ANT 2

802.11b

Conducted band-edge / 2 412 MHz



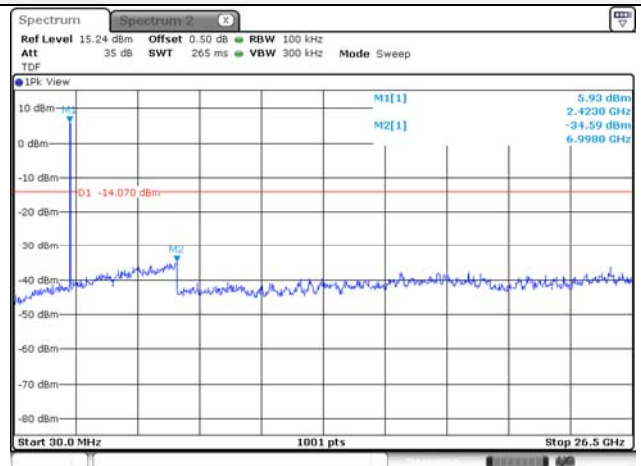
Conducted spurious / 2 412 MHz



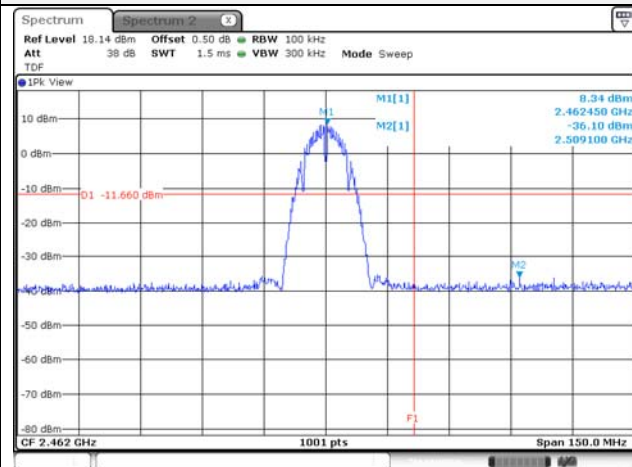
Conducted band-edge / 2 437 MHz

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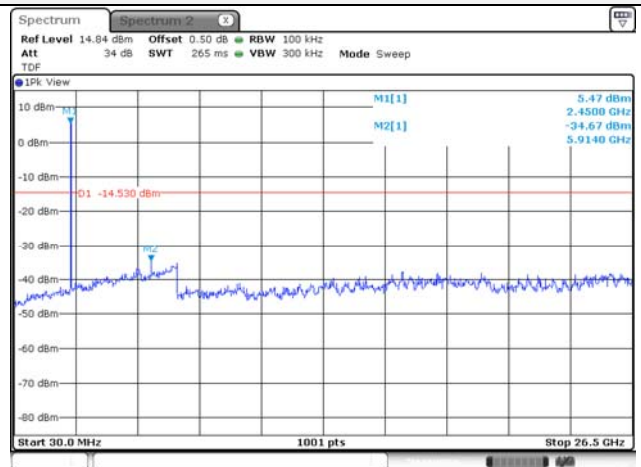
Conducted spurious / 2 437 MHz



Conducted band-edge / 2 462 MHz



Conducted spurious / 2 462 MHz



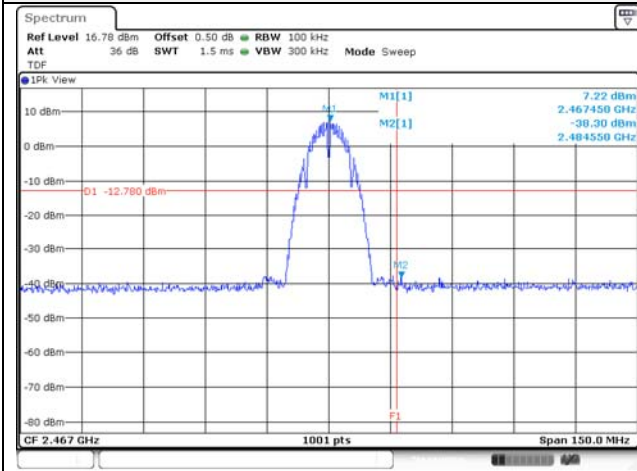
KCTL Inc.

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

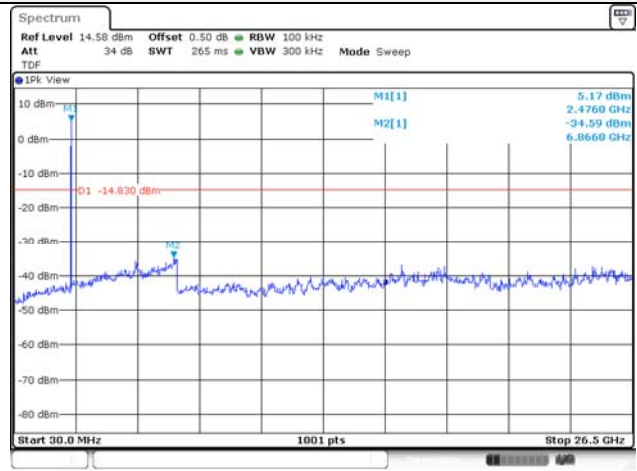
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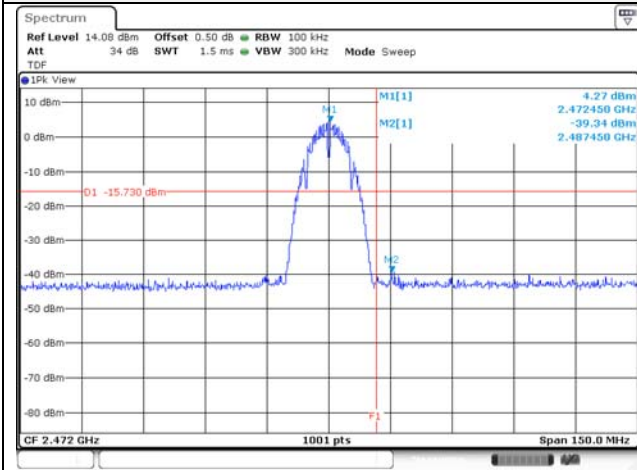
Conducted band-edge / 2 467 MHz



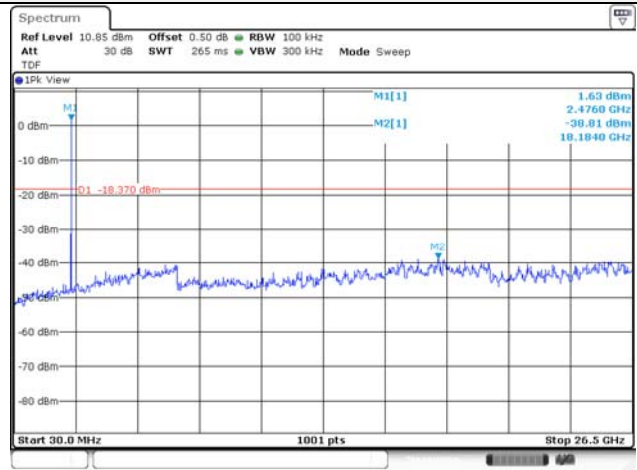
Conducted spurious / 2 467 MHz



Conducted band-edge / 2 472 MHz



Conducted spurious / 2 472 MHz



KCTL Inc.

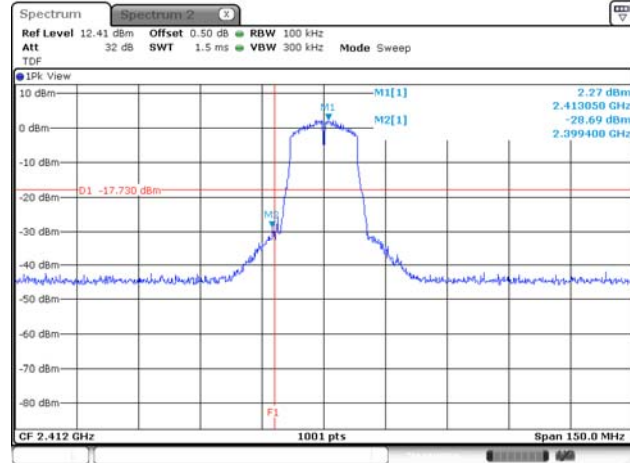
65, Sinwon-ro, Yeongtong-gu,
Suwon-si, Gyeonggi-do, 16677, Korea
TEL: 82-31-285-0894 FAX: 82-505-299-8311
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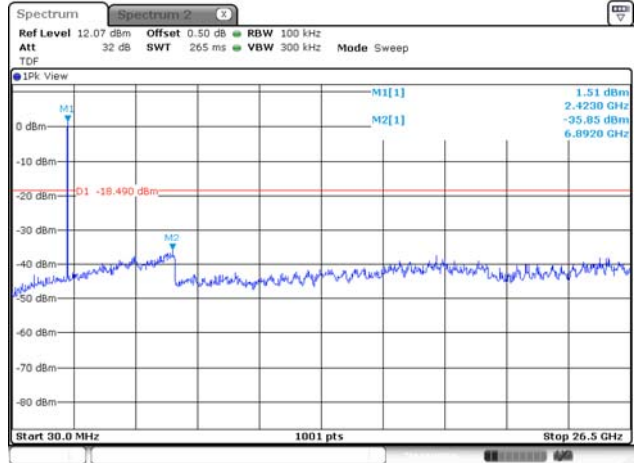


802.11g

Conducted band-edge / 2 412 MHz



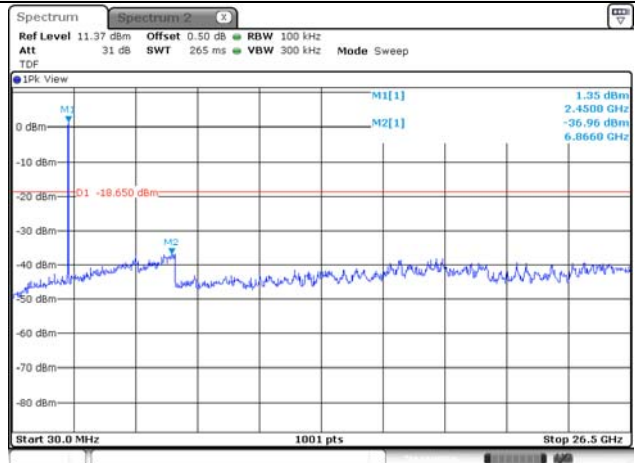
Conducted spurious / 2 412 MHz



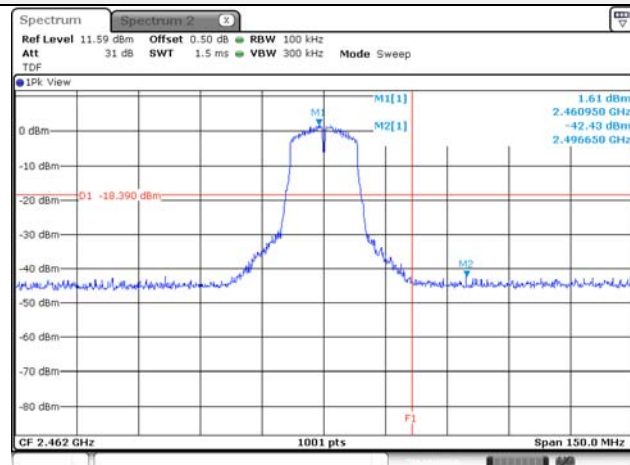
Conducted band-edge / 2 437 MHz

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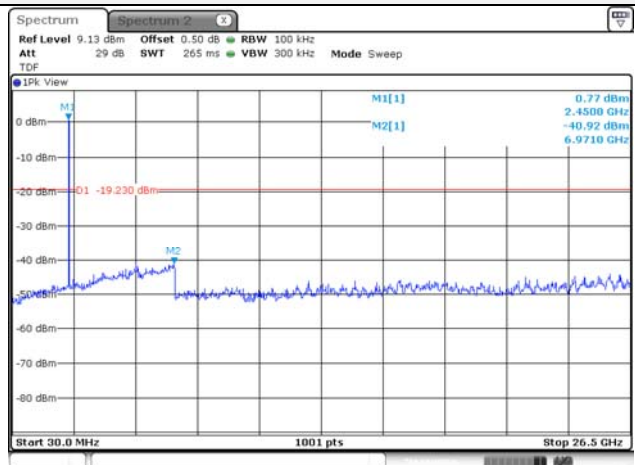
Conducted spurious / 2 437 MHz



Conducted band-edge / 2 462 MHz



Conducted spurious / 2 462 MHz



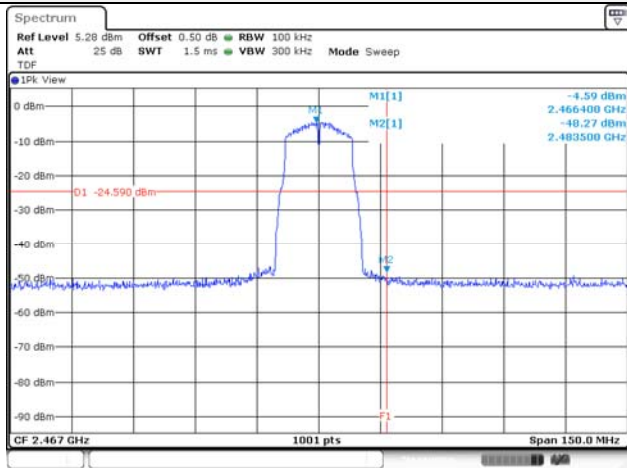
KCTL Inc.

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

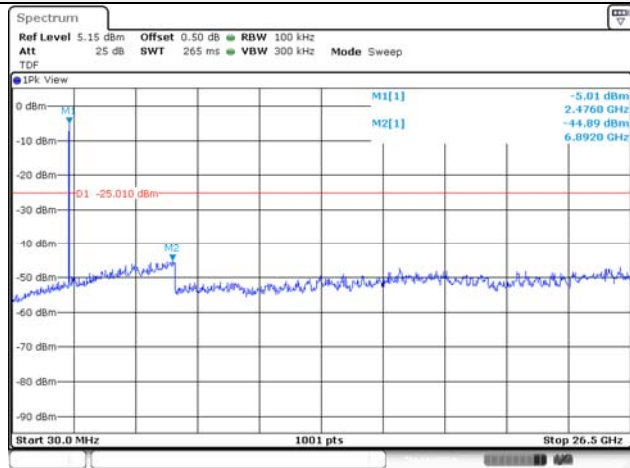
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KR21-SRF0064-A
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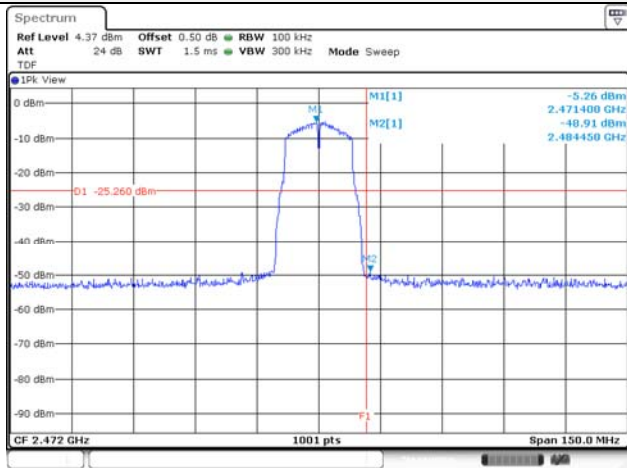
Conducted band-edge / 2 467 MHz



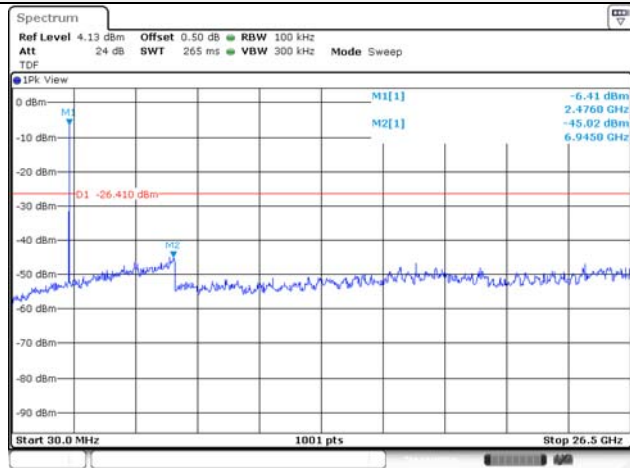
Conducted spurious / 2 467 MHz



Conducted band-edge / 2 472 MHz



Conducted spurious / 2 472 MHz



KCTL Inc.

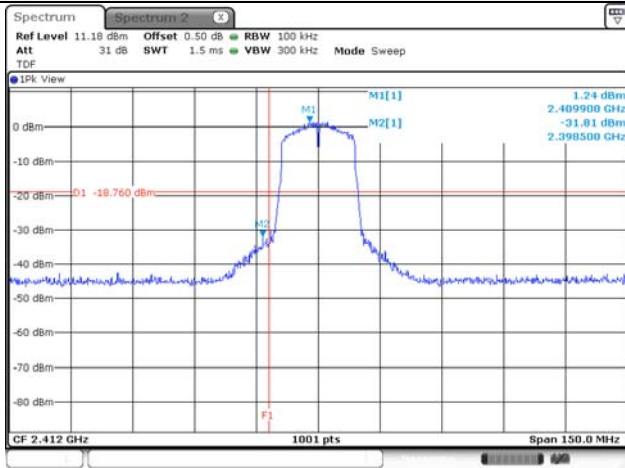
65, Sinwon-ro, Yeongtong-gu,
Suwon-si, Gyeonggi-do, 16677, Korea
TEL: 82-31-285-0894 FAX: 82-505-299-8311
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KR21-SRF0064-A
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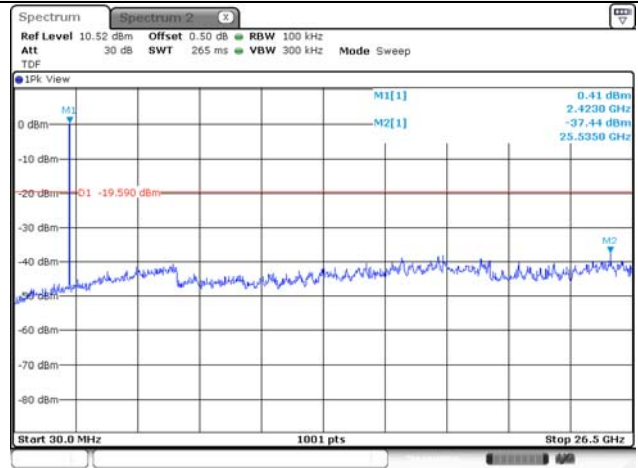


802.11n HT20

Conducted band-edge / 2 412 MHz



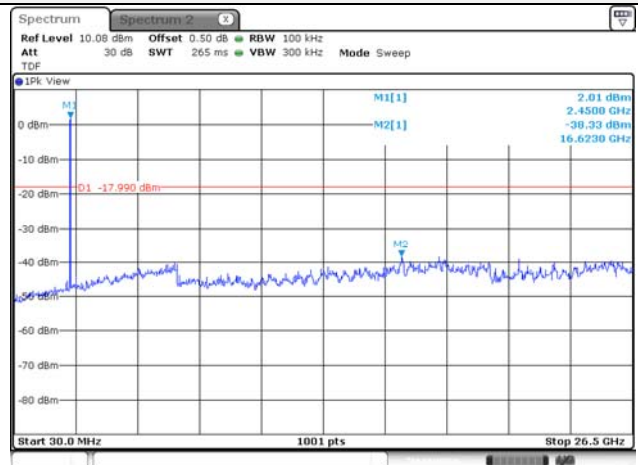
Conducted spurious / 2 412 MHz



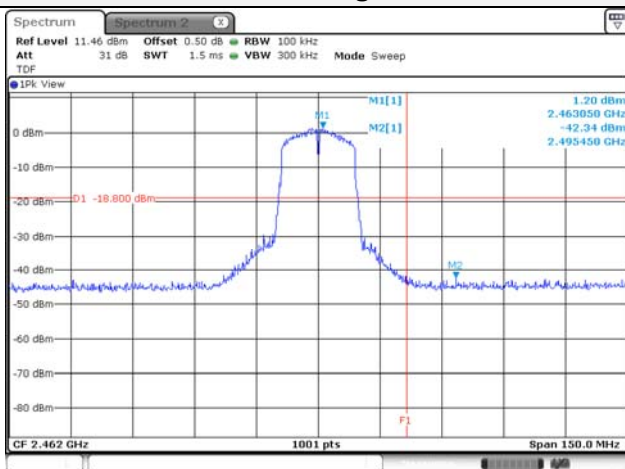
Conducted band-edge / 2 437 MHz

Blank

Conducted spurious / 2 437 MHz



Conducted band-edge / 2 462 MHz



Conducted spurious / 2 462 MHz

