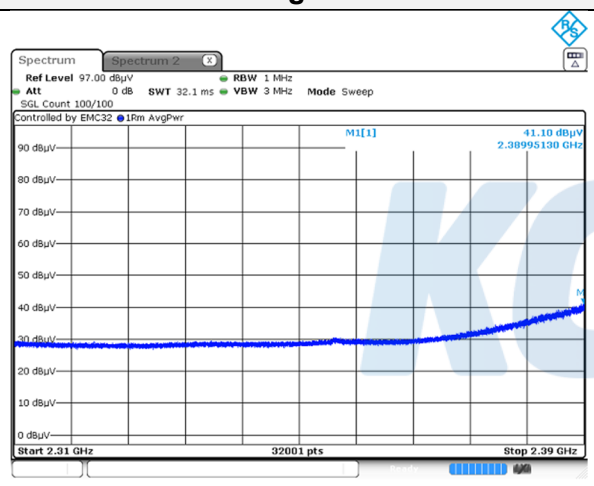
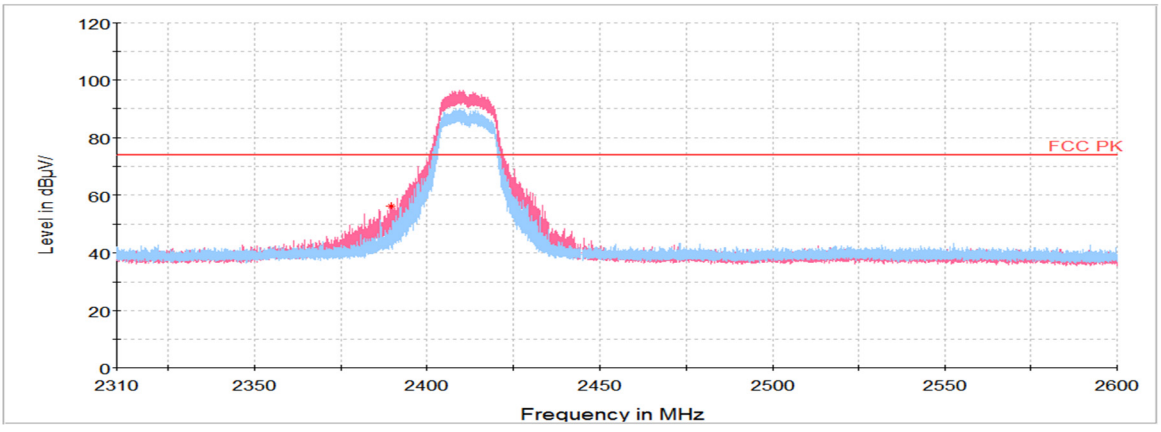
802.11g

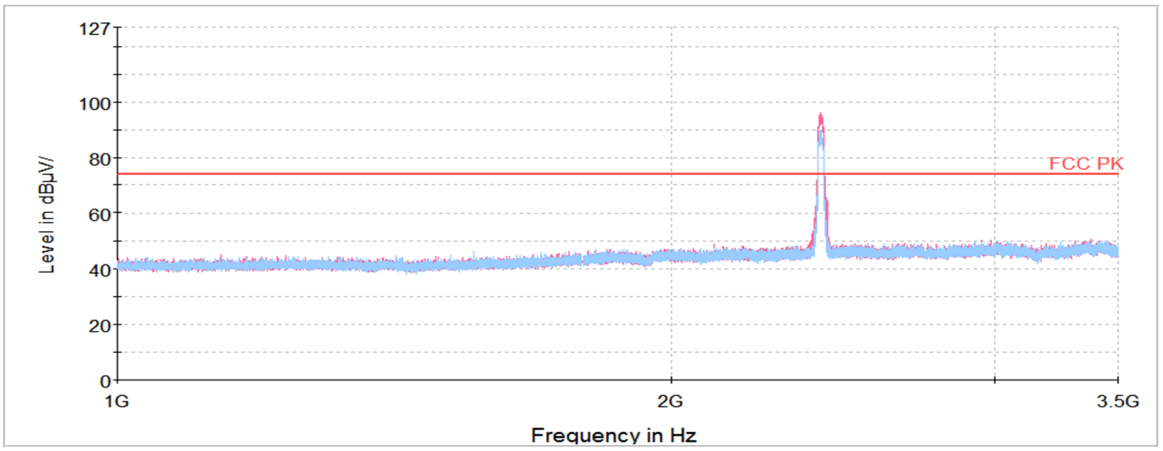
1 Channel

Frequency	Pol.	Reading	Antenna Factor	Amp. + Cable	DCCF	Result	Limit	Margin
(㎒)	(V/H)	(dB(㎶))	(dB)	(dB)	(dB)	(dB(㎶/m))	(dB(㎶/m))	(dB)
Peak data								
2 389.95[1)]	V	53.18	31.88	-29.04	-	56.02	74.00	17.98
4 826.75[1)]	V	61.94	33.93	-53.66	-	42.21	74.00	31.79
7 237.38	H	61.11	35.40	-52.97	-	43.54	74.00	30.46
Average Data								
2 389.95[1)]	V	41.10	31.88	-29.04	0.35	44.29	54.00	9.71

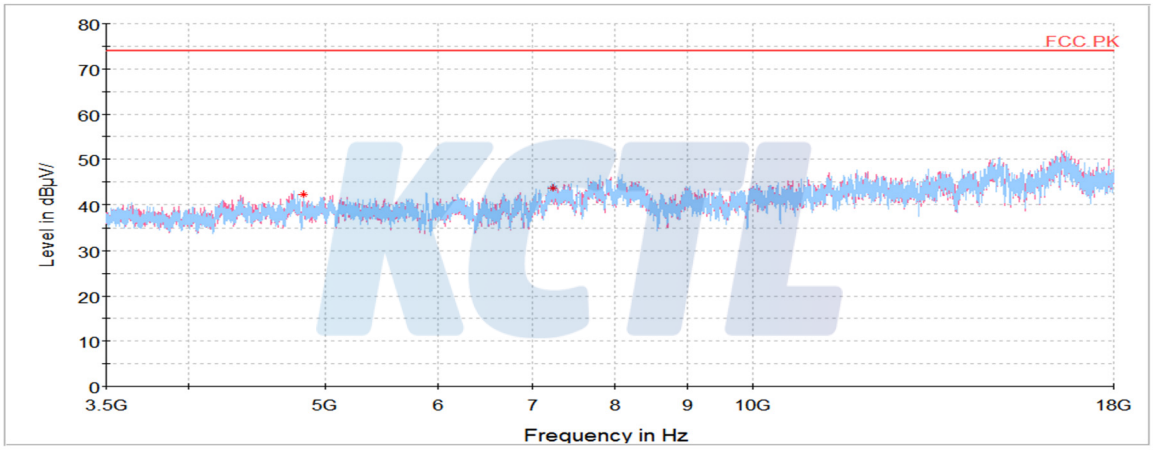
Average data	Average data
	Blank

Horizontal/Vertical for Band-edge


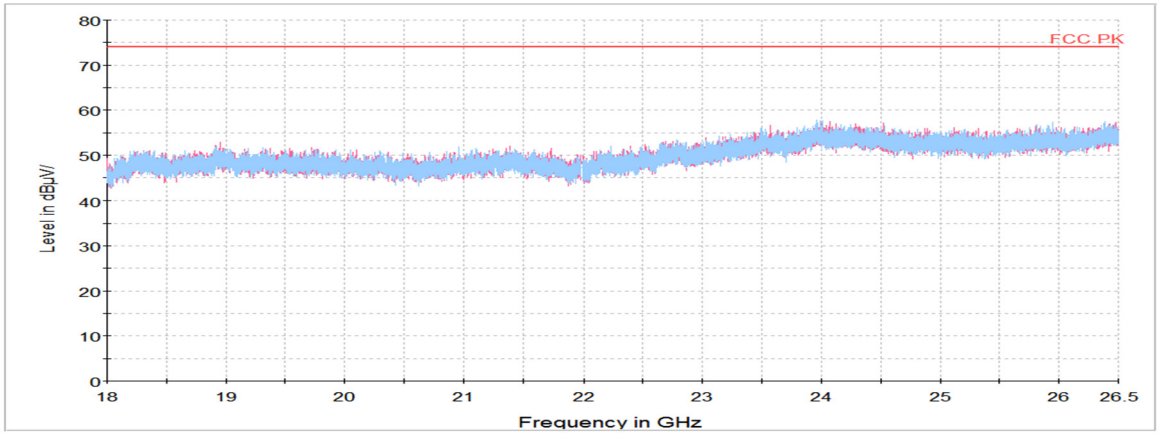
Horizontal/Vertical for 1 ㎓ ~ 3.5 ㎓



Horizontal/Vertical for 3.5 ㎓ ~ 18 ㎓



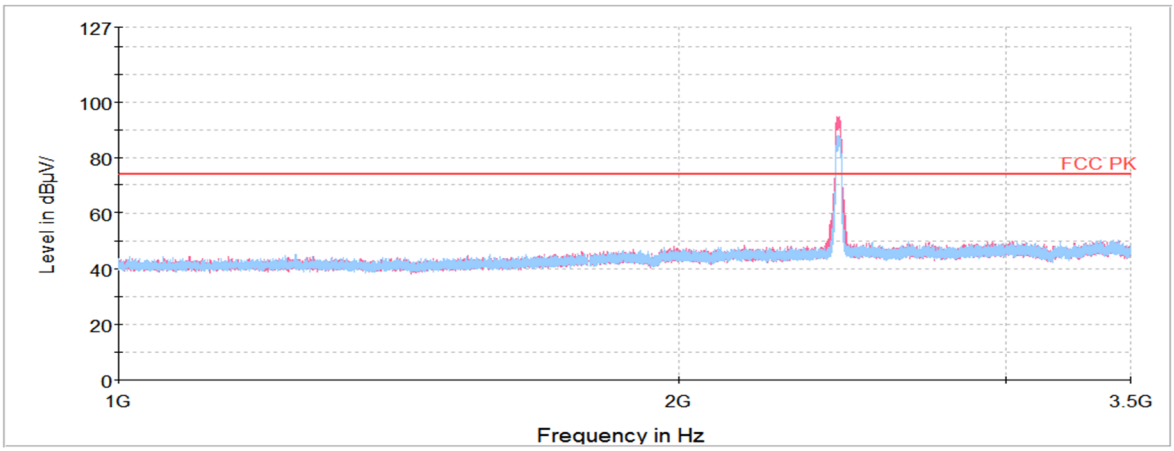
Horizontal/Vertical for 18 ㎓ ~ 26.5 ㎓



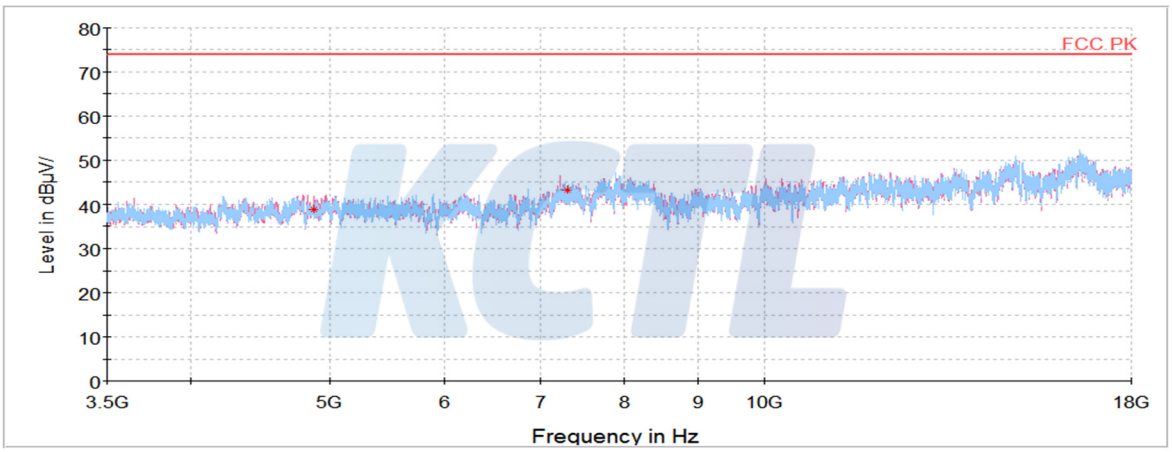
6 Channel

Frequency	Pol.	Reading	Ant. Factor	Amp. + Cable	DCCF	Result	Limit	Margin
(㎒) [1)]	(V/H)	(dB(㎶))	(dB)	(dB)	(dB)	(dB(㎶/m))	(dB(㎶/m))	(dB)
Peak data								
4 873.88	H	59.80	33.95	-54.99	-	38.76	74.00	35.24
7 312.59	V	60.36	35.40	-52.68	-	43.08	74.00	30.92
Average Data								
No spurious emissions were detected within 20 dB of the limit.								

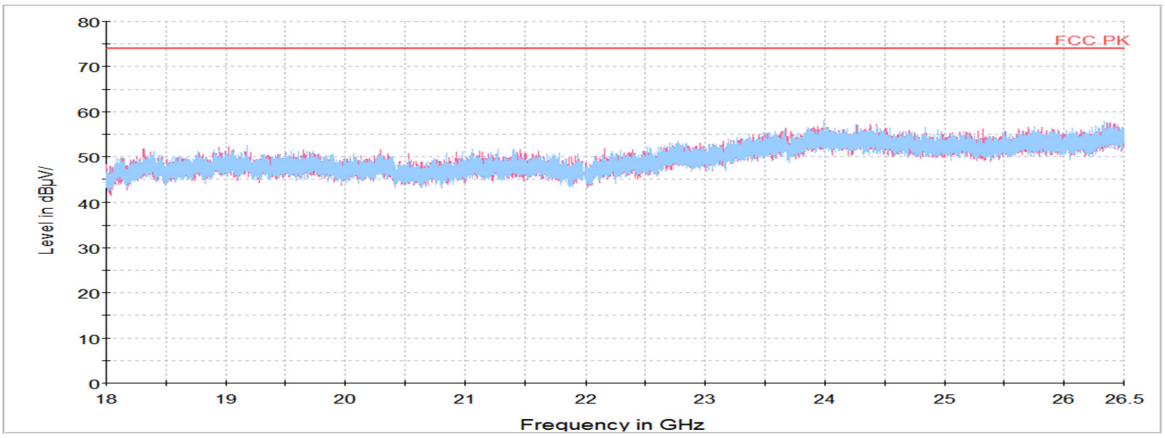
Horizontal/Vertical for 1 ㎓ ~ 3.5 ㎓



Horizontal/Vertical for 3.5 ㎓ ~ 18 ㎓

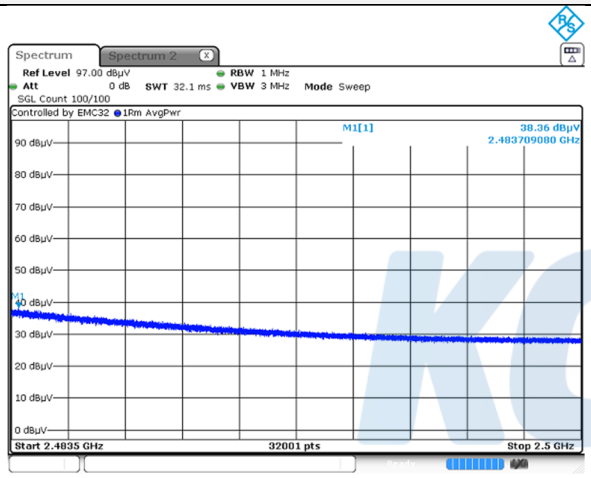


Horizontal/Vertical for 18 ㎓ ~ 26.5 ㎓

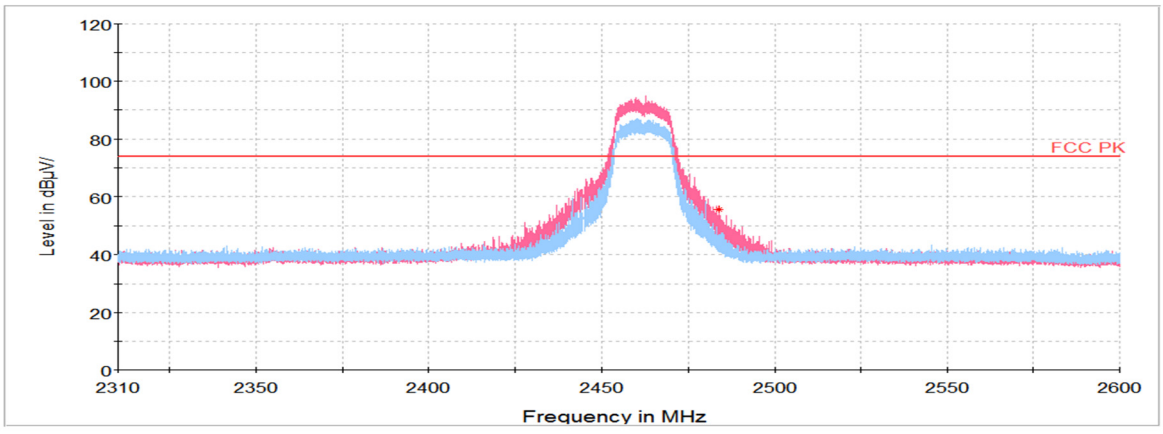


11 Channel

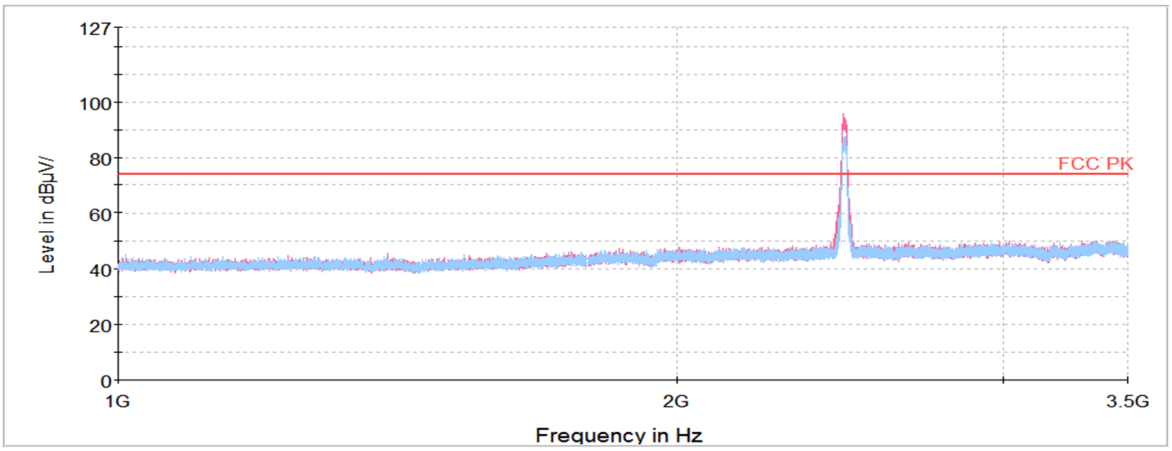
Frequency	Pol.	Reading	Ant. Factor	Amp. + Cable	DCCF	Result	Limit	Margin
(㎒)	(V/H)	(dB(㎶))	(dB)	(dB)	(dB)	(dB(㎶/m))	(dB(㎶/m))	(dB)
Peak data								
2 483.71[1)]	V	52.68	32.07	-29.21	-	55.54	74.00	18.46
4 925.08[1)]	V	61.87	33.97	-55.29	-	40.55	74.00	33.45
7 385.55[1)]	V	60.67	35.40	-52.41	-	43.66	74.00	30.34
Average Data								
2 483.71[1)]	V	38.36	32.07	-29.21	0.35	41.57	54.00	12.43

Average data	Average data
	Blank

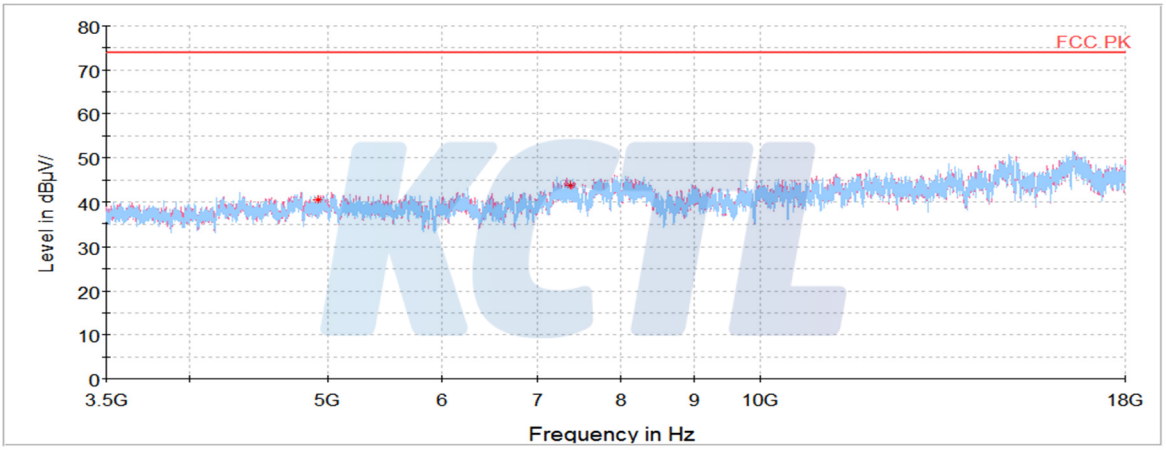
Horizontal/Vertical for Band-edge



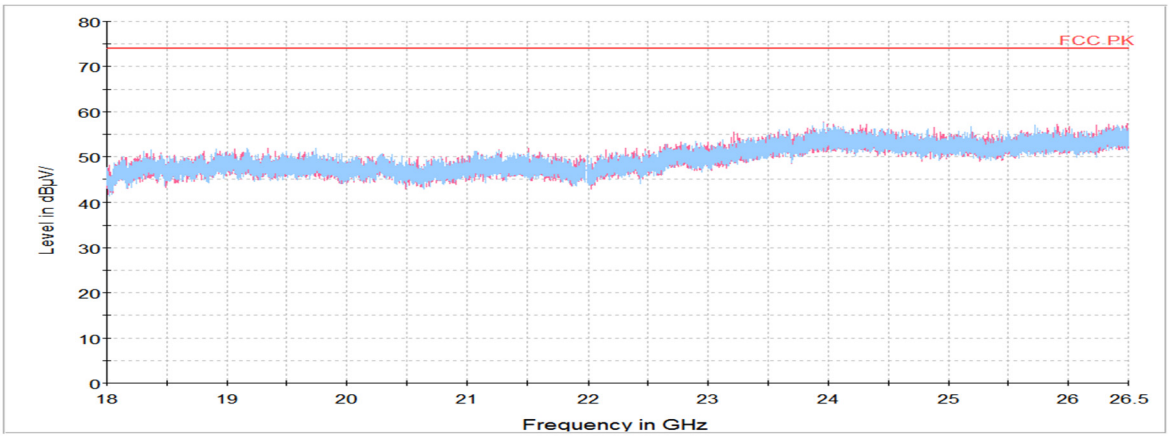
Horizontal/Vertical for 1 ㎓ ~ 3.5 ㎓



Horizontal/Vertical for 3.5 ㎓ ~ 18 ㎓



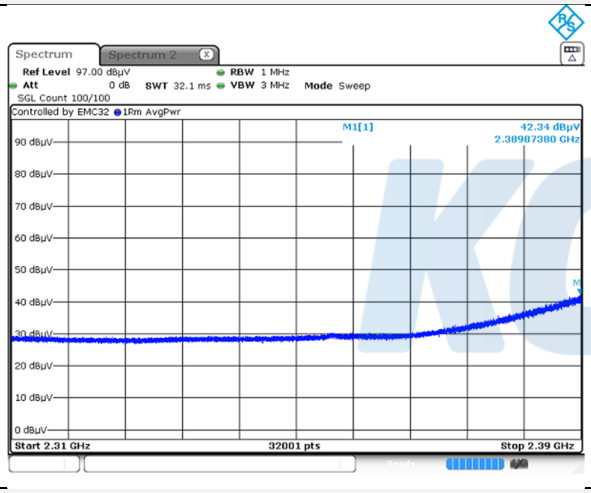
Horizontal/Vertical for 18 ㎓ ~ 26.5 ㎓



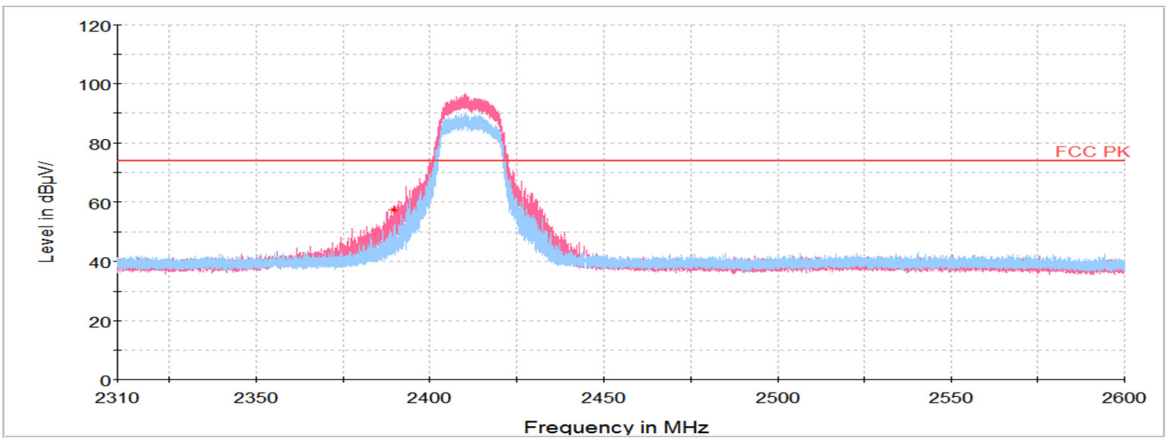
802.11HT20

1 Channel

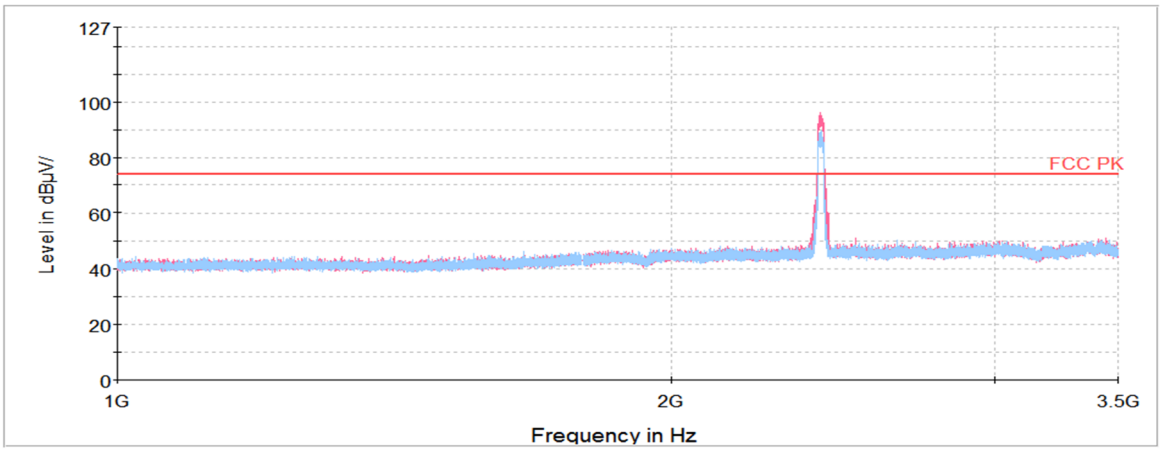
Frequency	Pol.	Reading	Ant. Factor	Amp. + Cable	DCCF	Result	Limit	Margin
(㎒)	(V/H)	(dB(㎶))	(dB)	(dB)	(dB)	(dB(㎶/m))	(dB(㎶/m))	(dB)
Peak data								
2 389.87[1)]	V	54.36	31.88	-29.04	-	57.20	74.00	16.80
4 823.58[1)]	V	60.97	33.93	-53.57	-	41.33	74.00	32.67
7 236.92	V	62.48	35.40	-52.97	-	44.91	74.00	29.09
Average Data								
2 389.87[1)]	V	42.34	31.88	-29.04	0.32	45.50	54.00	8.50

Average data	Average data
	Blank

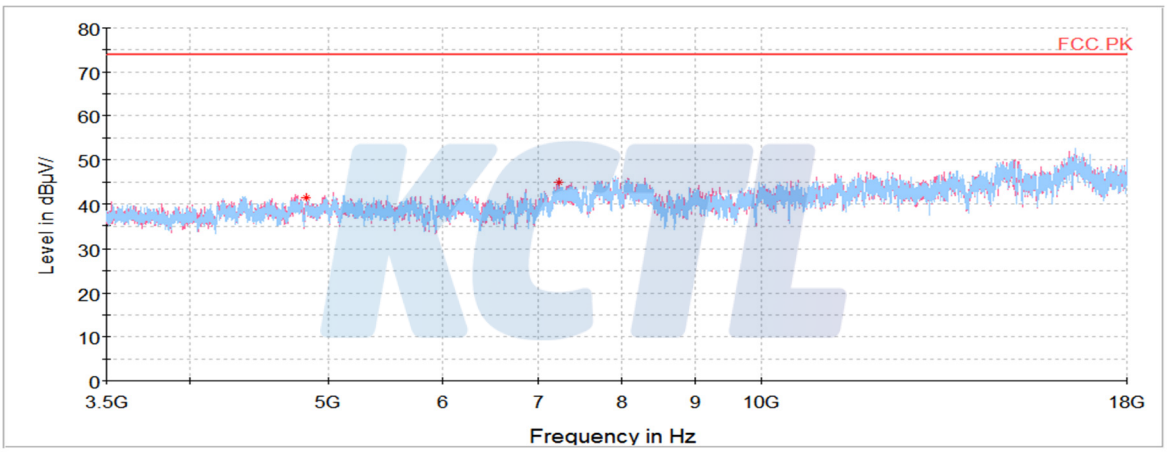
Horizontal/Vertical for Band-edge



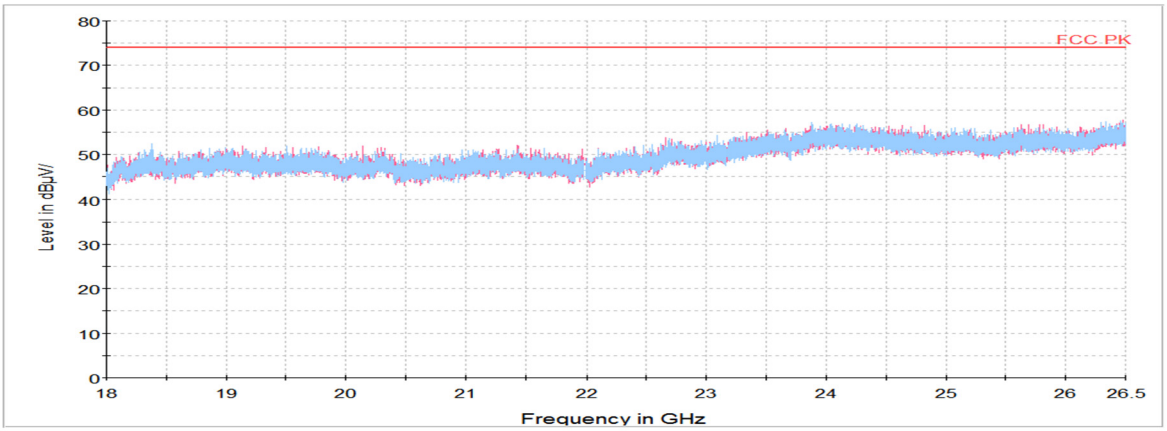
Horizontal/Vertical for 1 ㎓ ~ 3.5 ㎓



Horizontal/Vertical for 3.5 ㎓ ~ 18 ㎓



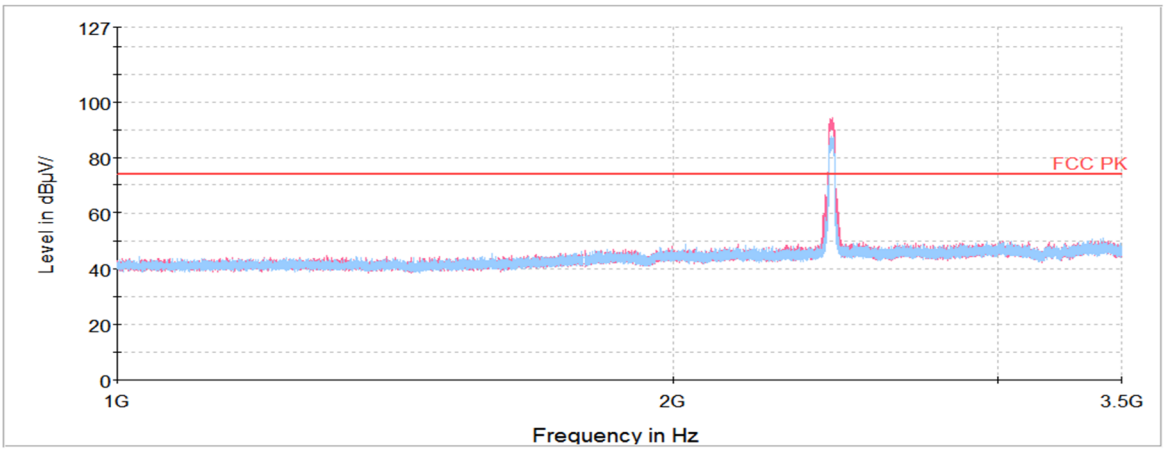
Horizontal/Vertical for 18 ㎓ ~ 26.5 ㎓



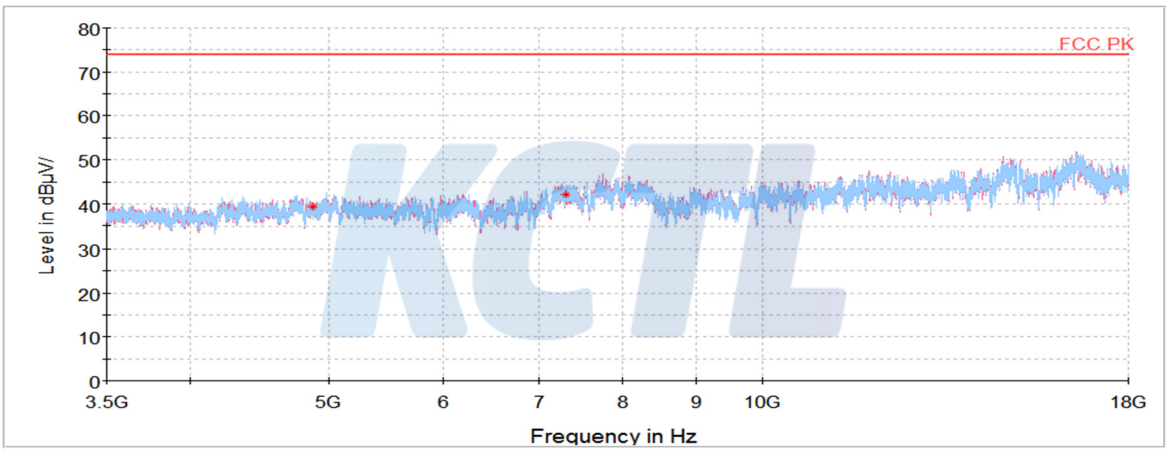
6 Channel

Frequency	Pol.	Reading	Ant. Factor	Amp. + Cable	DCCF	Result	Limit	Margin
(㎒)	(V/H)	(dB(㎶))	(dB)	(dB)	(dB)	(dB(㎶/m))	(dB(㎶/m))	(dB)
1) **Peak data**								
4 873.88[1)]	H	60.40	33.95	-54.99	-	39.36	74.00	34.64
7 311.23[1)]	V	59.44	35.40	-52.69	-	42.15	74.00	31.85
Average Data								
No spurious emissions were detected within 20 dB of the limit.								

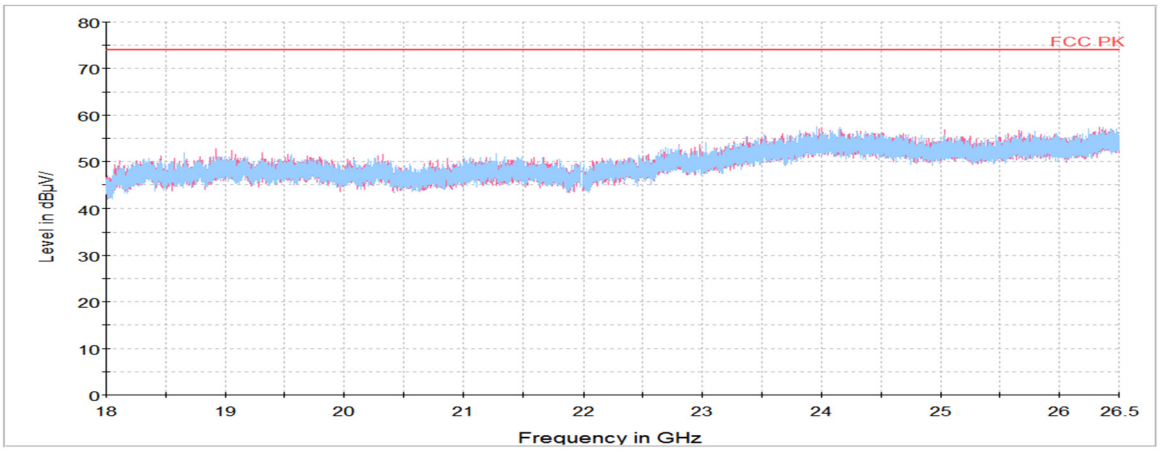
Horizontal/Vertical for 1 ㎓ ~ 3.5 ㎓



Horizontal/Vertical for 3.5 ㎓ ~ 18 ㎓

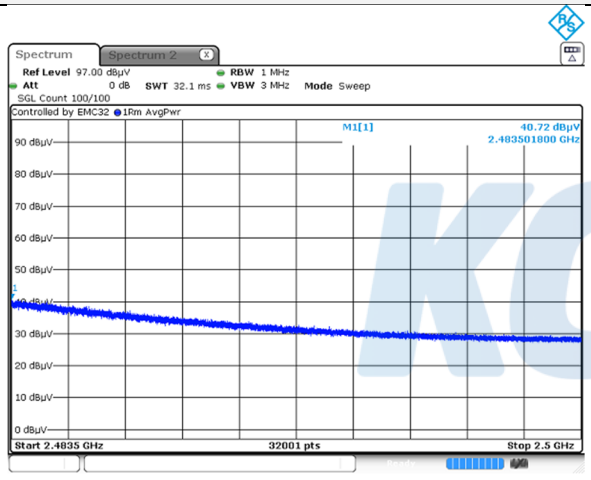


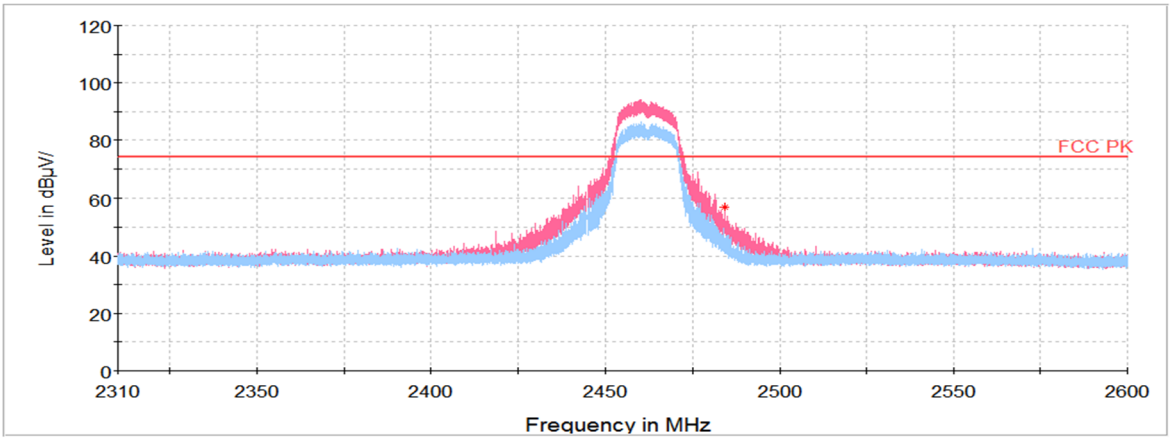
Horizontal/Vertical for 18 ㎓ ~ 26.5 ㎓



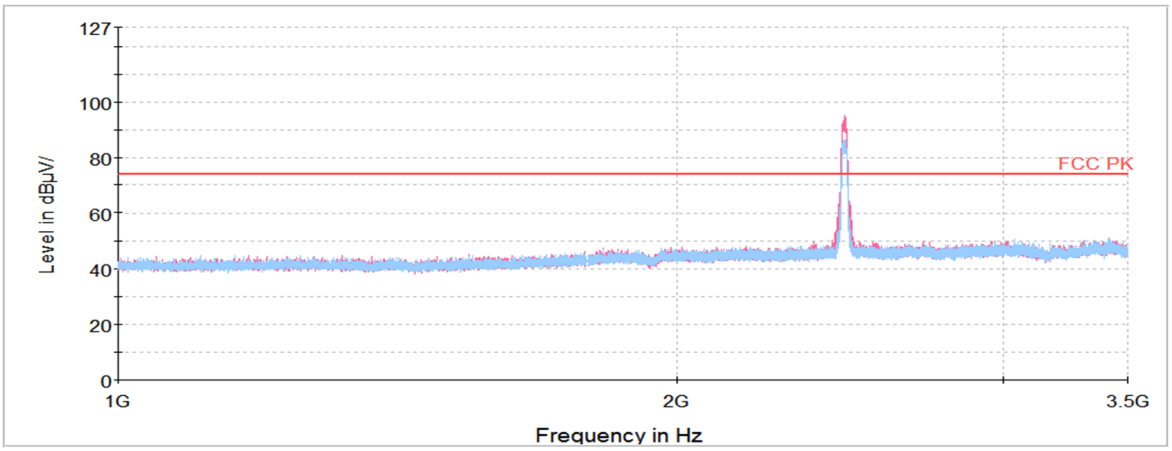
11 Channel

Frequency	Pol.	Reading	Ant. Factor	Amp. + Cable	DCCF	Result	Limit	Margin
(㎒)	(V/H)	(dB(㎶))	(dB)	(dB)	(dB)	(dB(㎶/m))	(dB(㎶/m))	(dB)
Peak data								
2 483.50[1)]	V	53.89	32.07	-29.21	-	56.75	74.00	17.25
4 925.08[1)]	H	61.29	33.97	-55.29	-	39.97	74.00	34.03
7 385.55[1)]	V	61.08	35.40	-52.41	-	44.07	74.00	29.93
Average Data								
2 483.50[1)]	V	40.72	32.07	-29.21	0.32	43.90	54.00	10.10

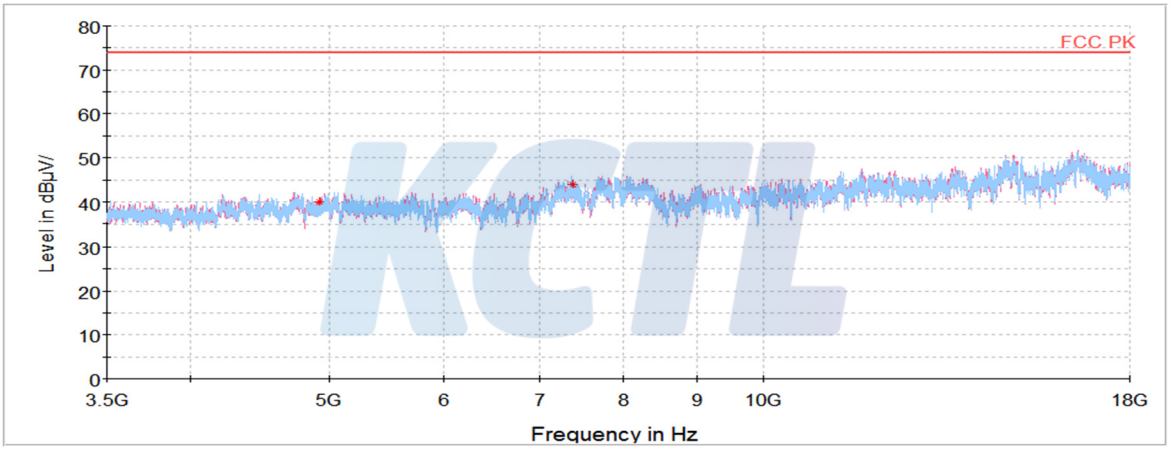
Average data	Average data
	Blank

Horizontal/Vertical for Band-edge


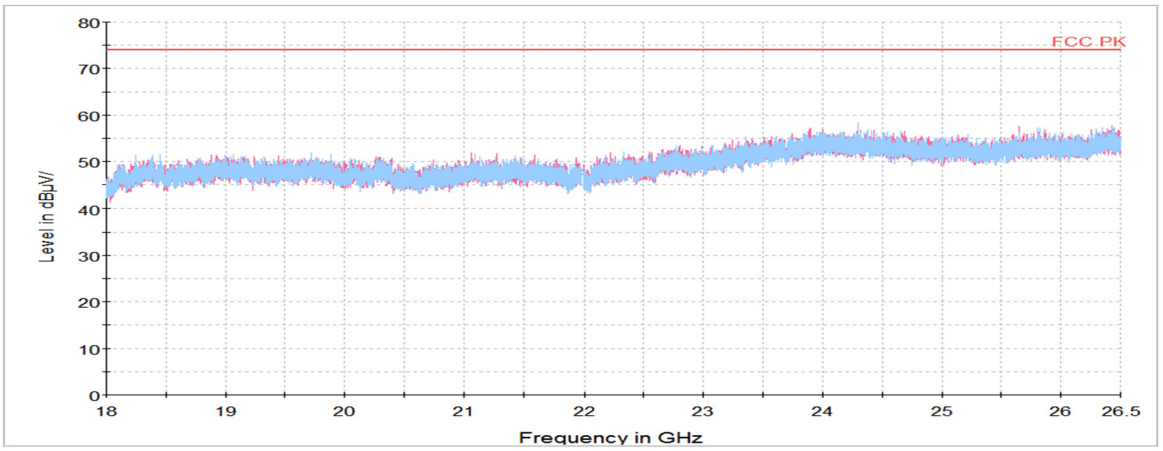
Horizontal/Vertical for 1 ㎓ ~ 3.5 ㎓



Horizontal/Vertical for 3.5 ㎓ ~ 18 ㎓

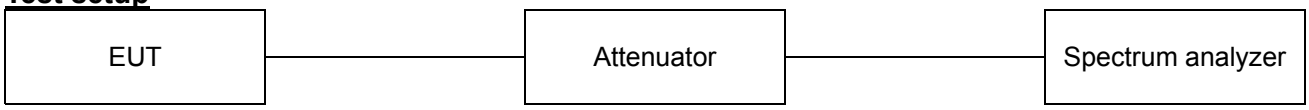


Horizontal/Vertical for 18 ㎓ ~ 26.5 ㎓



7.5. Conducted Spurious Emission

Test setup



Limit

In any 100 ㎑ 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 ㏈ below that in the 100 ㎑ 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 ㏈c

Test procedure

ANSI C63.10 - Section 11.11.3
558074 D01 v04 – Section 11.3

Test settings

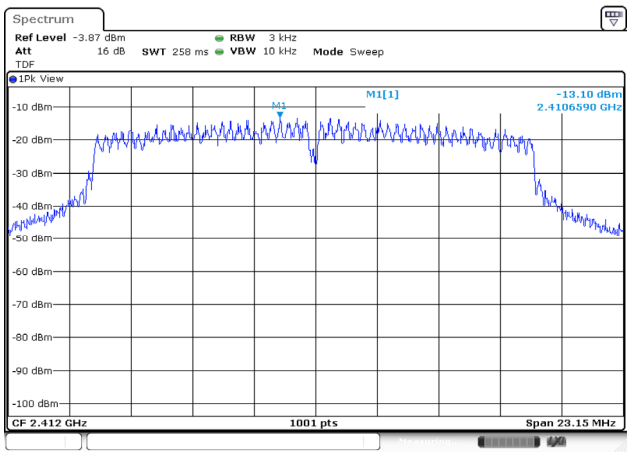
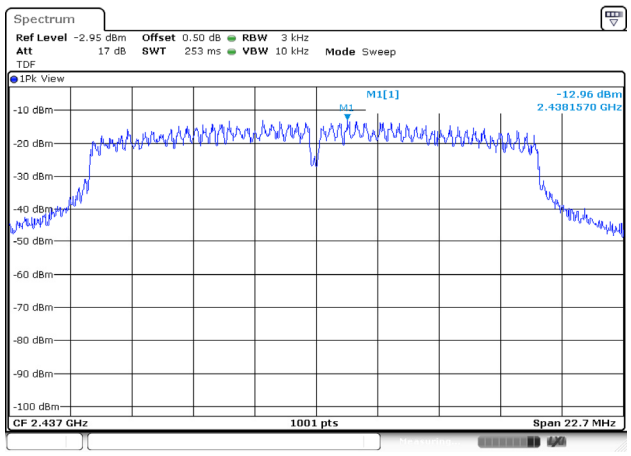
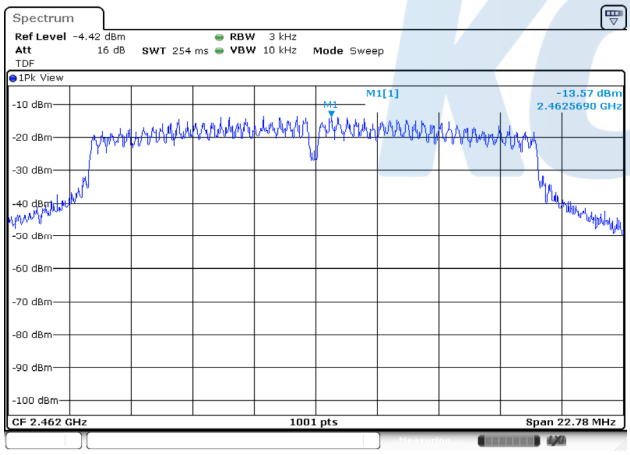
Set the spectrum analyzer as follows:

1) Span = wide enough to capture the peak level of the in-band emission and all spurious emissions (e.g., harmonics) from the lowest frequency generated in the EUT up through the 10th harmonic.
   Typically, several plots are required to cover this entire span.
2) RBW = 100 ㎑
3) VBW ≥ RBW
4) Sweep = auto
5) Detector function = peak
6) Trace = max hold
7) Allow the trace to stabilize. Set the marker on the peak of any spurious emission recorded.
8) Each frequency found during preliminary measurements was re-examined and investigated. The test-receiver system was set up to average, peak, and quasi-peak detector function with specified bandwidth.

Test results

Test mode : 802.11b

Reference

802.11b / 1 ch.	802.11b / 6 ch.
	
802.11b / 11 ch.	
	Blank