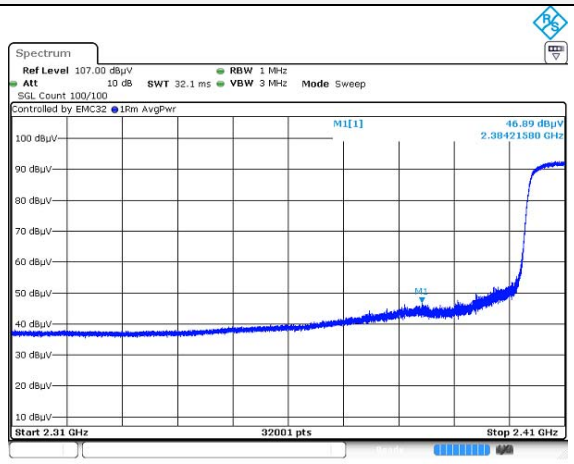
802.11n HT40

2 422 MHz

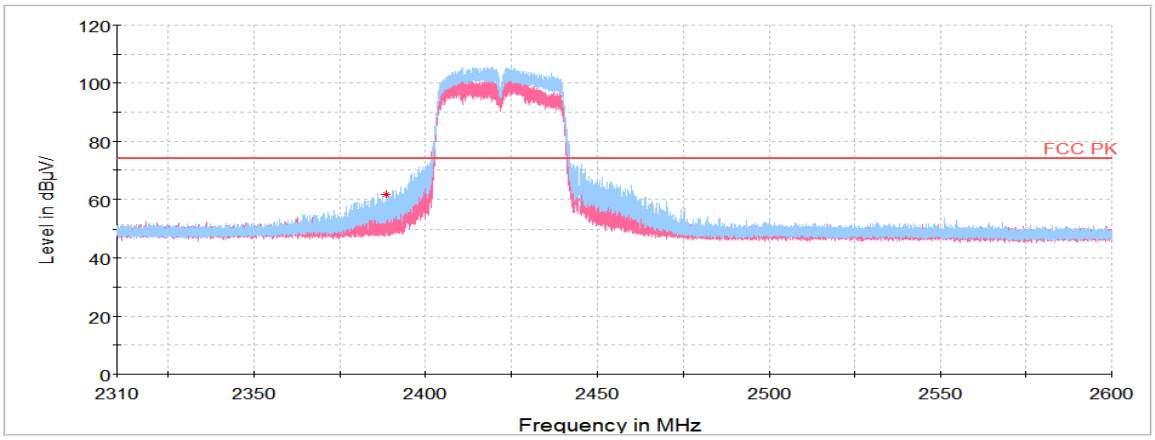
Frequency	Pol.	Reading	Ant. Factor	Amp. + Cable	DCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(μV))	(dB)	(dB)	(dB)	(dB(μV/m))	(dB(μV/m))	(dB)
Peak data								
2 384.22[1)]	H	57.52	31.99	-27.79	-	61.72	74.00	12.28
3 940.44[1)]	V	67.31	33.01	-53.99	-	46.33	74.00	27.67
4 846.23[1)]	V	65.26	33.81	-52.87	-	46.20	74.00	27.80
7 182.09	V	61.67	35.30	-50.47	-	46.50	74.00	27.50
Average Data								
2 384.22[1)]	H	46.89	31.99	-27.79	0.56	51.65	54.00	2.35

Average data

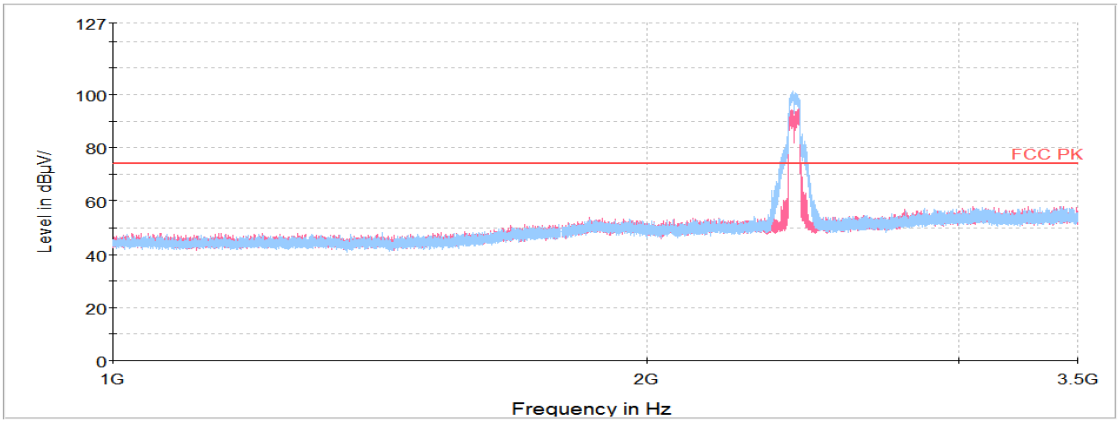


Blank

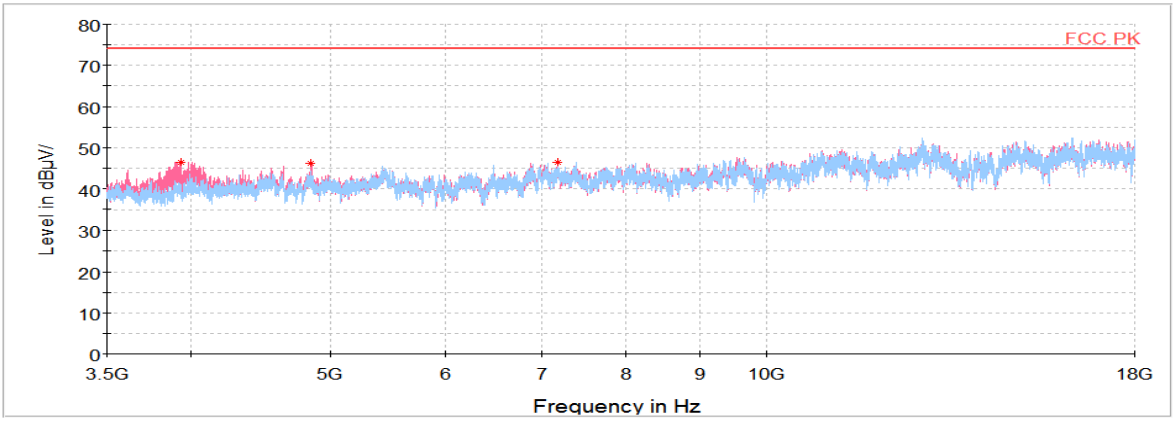
Horizontal/Vertical for Band-edge



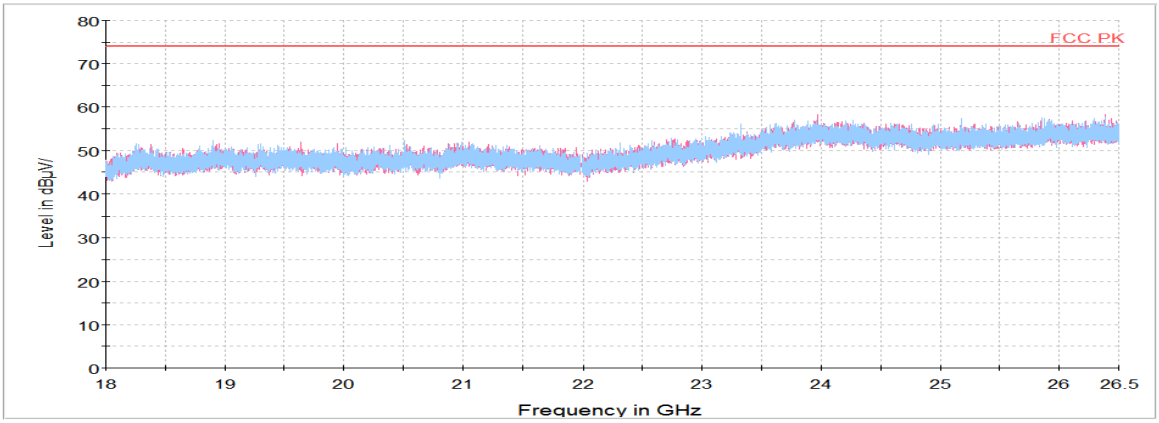
Horizontal/Vertical for 1 ㎓ ~ 3.5 ㎓



Horizontal/Vertical for 3.5 ㎓ ~ 18 ㎓



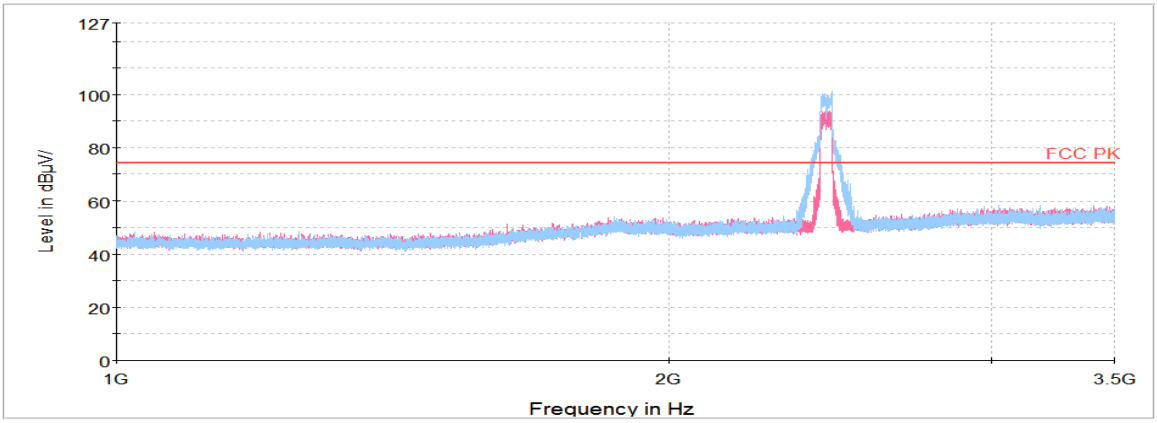
Horizontal/Vertical for 18 ㎓ ~ 26.5 ㎓



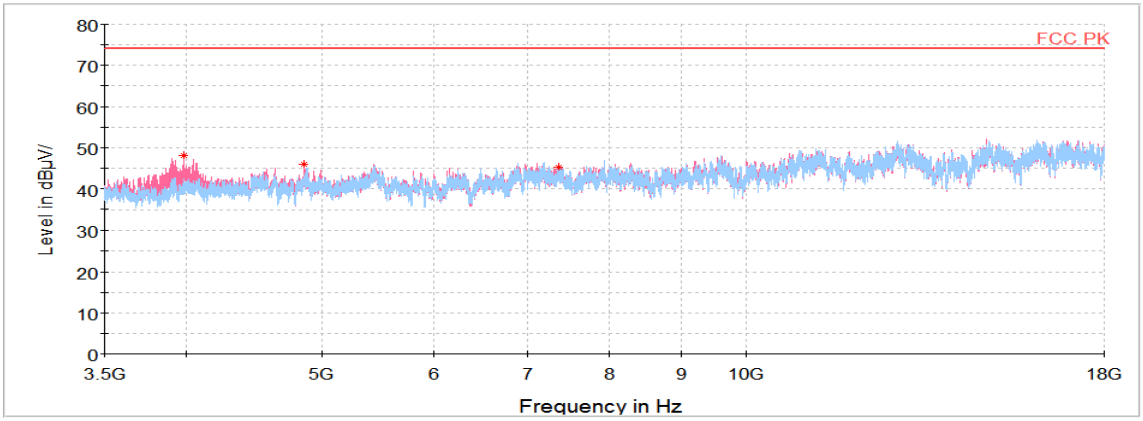
2 437 ㎒

Frequency	Pol.	Reading	Ant. Factor	Amp. + Cable	DCF	Result	Limit	Margin
(㎒)	(V/H)	(dB(㎶))	(dB)	(dB)	(dB)	(dB(㎶/m))	(dB(㎶/m))	(dB)
Peak data								
3 983.94[1)]	V	68.84	33.00	-53.79	-	48.05	74.00	25.95
4 853.48[1)]	V	65.01	33.81	-52.87	-	45.95	74.00	28.05
7 369.23[1)]	H	60.73	35.30	-50.90	-	45.13	74.00	28.87
Average Data								
No spurious emissions were detected within 20 ㏈ of the limit.								

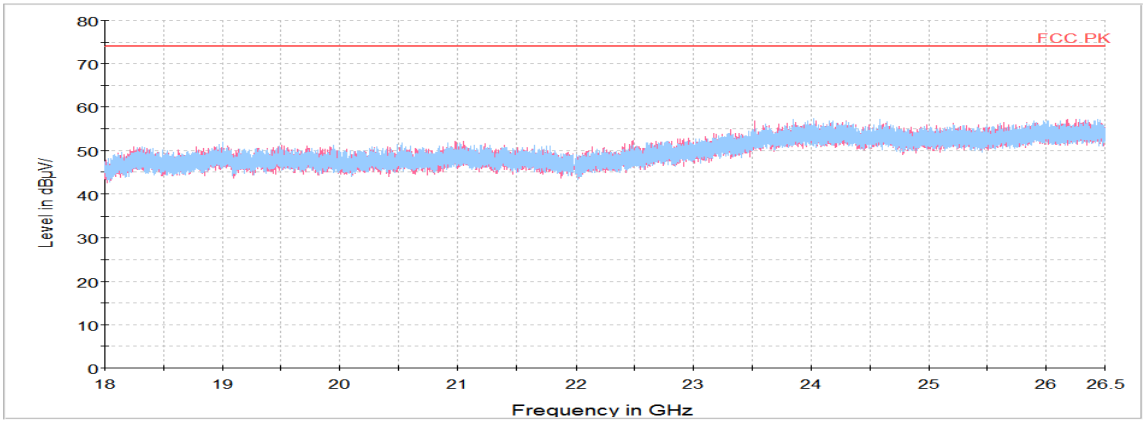
Horizontal/Vertical for 1 ㎓ ~ 3.5 ㎓



Horizontal/Vertical for 3.5 ㎓ ~ 18 ㎓



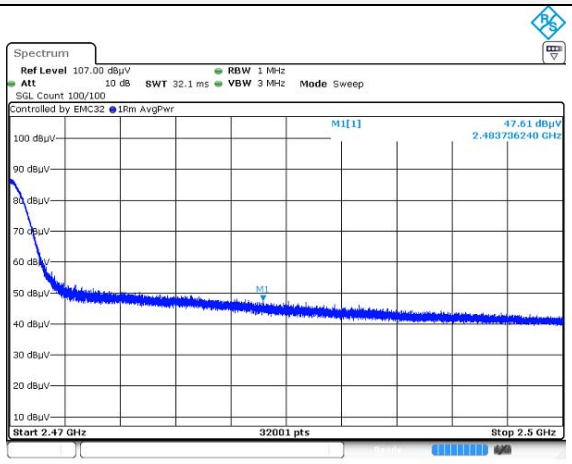
Horizontal/Vertical for 18 ㎓ ~ 26.5 ㎓



2 452 MHz

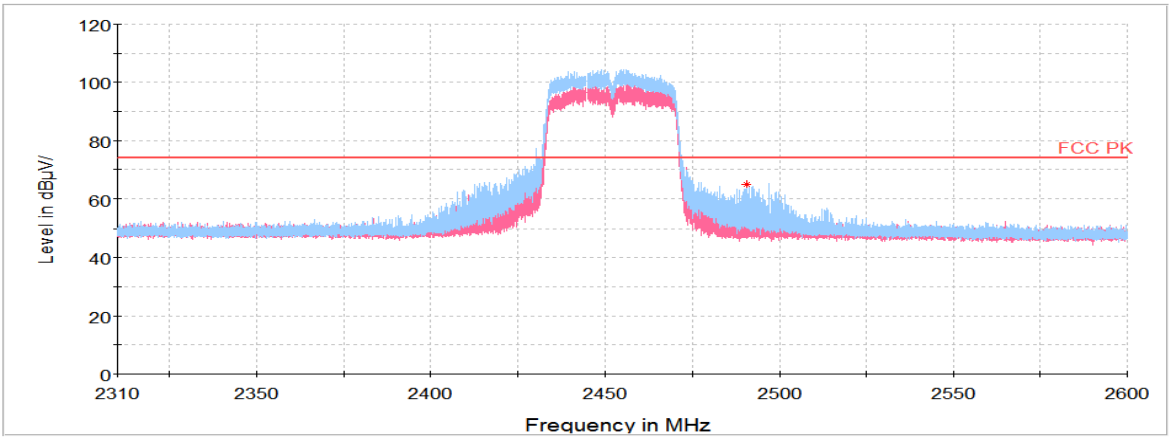
Frequency	Pol.	Reading	Ant. Factor	Amp. + Cable	DCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(μV))	(dB)	(dB)	(dB)	(dB(μV/m))	(dB(μV/m))	(dB)
Peak data								
2 483.74[1)]	H	61.31	32.17	-28.55	-	64.93	74.00	9.07
4 257.63[1)]	V	68.32	33.31	-53.52	-	48.11	74.00	25.89
4 887.47[1)]	V	62.43	33.83	-52.86	-	43.40	74.00	30.60
7 378.75[1)]	V	61.44	35.30	-50.93	-	45.81	74.00	28.19
Average Data								
2 483.74[1)]	H	47.61	32.17	-28.55	0.56	51.79	54.00	2.21

Average data

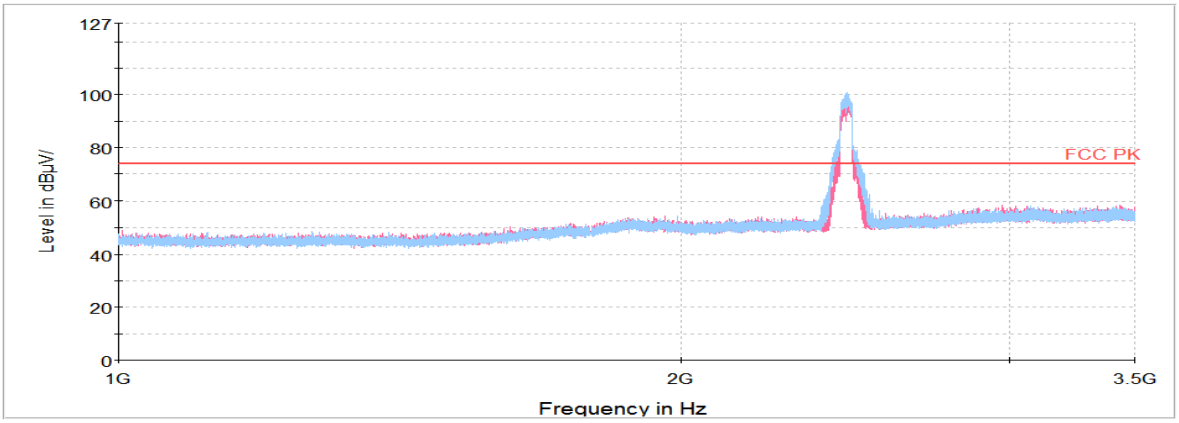


Blank

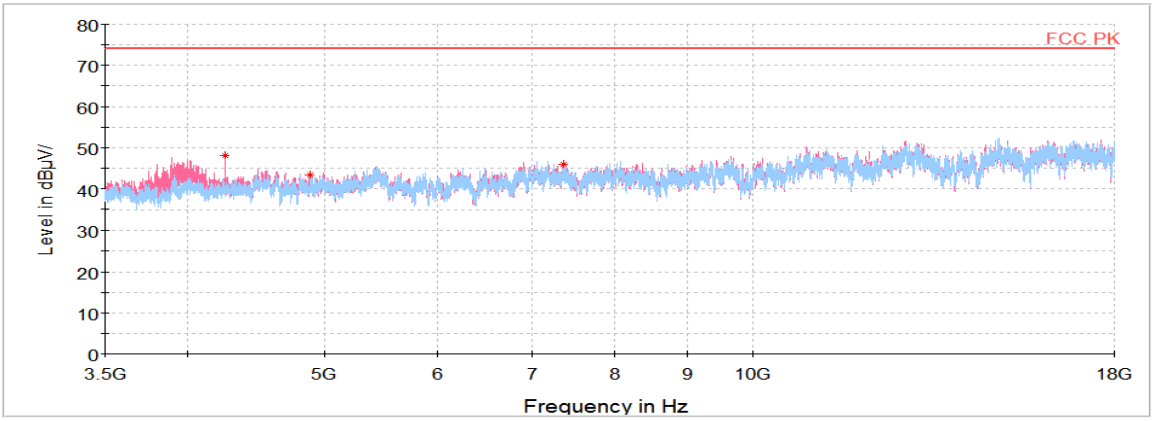
Horizontal/Vertical for Band-edge



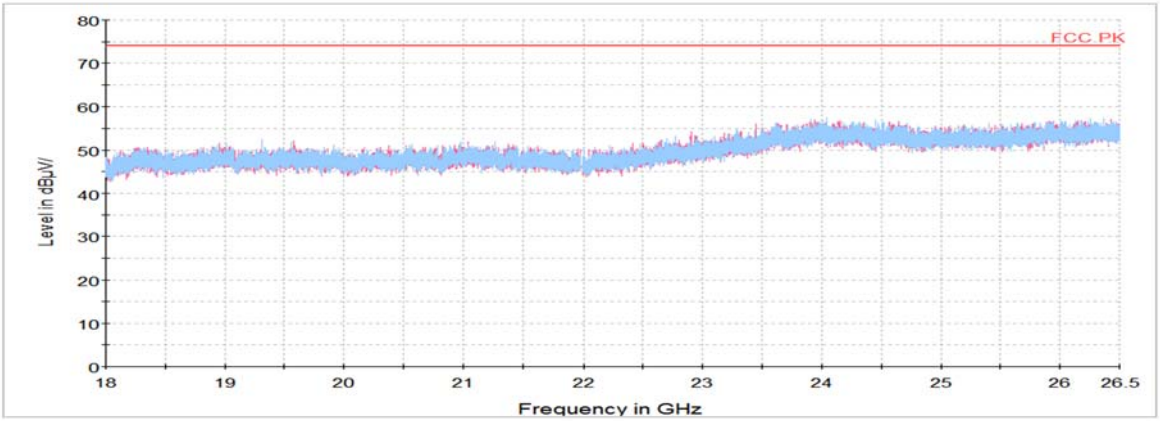
Horizontal/Vertical for 1 ㎓ ~ 3.5 ㎓



Horizontal/Vertical for 3.5 ㎓ ~ 18 ㎓



Horizontal/Vertical for 18 ㎓ ~ 26.5 ㎓

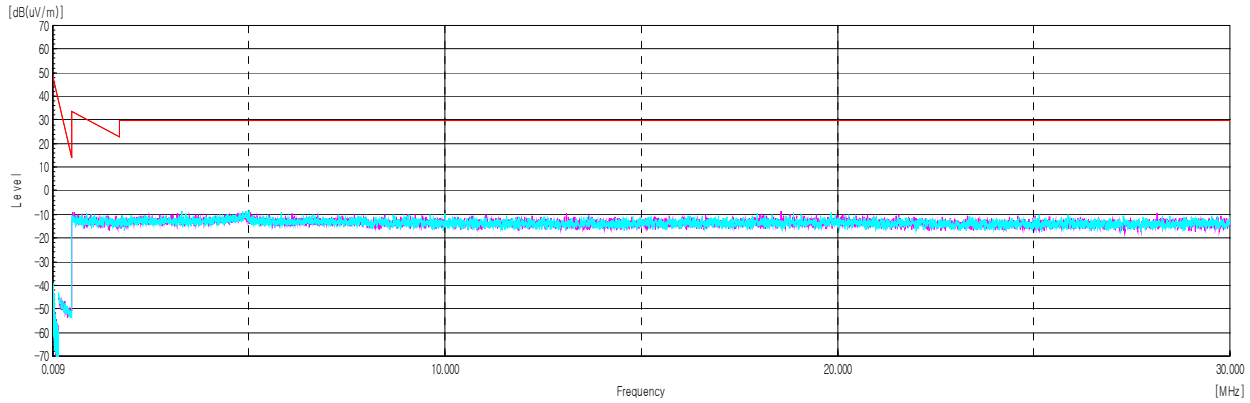


[DC 12 V]

Test results (Below 30 ㎒) – Worst case: 802.11g mode / 2 437 ㎒

Frequency	Pol.	Reading	Ant. Factor	Amp. +Cable	Distance Factor	DCF	Result	Limit	Margin
[MHz]	[V/H]	[dB(μV)]	[dB]	[dB]	[dB]	[dB]	[dB(μV/m)]	[dB(μV/m)]	[dB]
No spurious emissions were detected within 20 ㏈ of the limit.									

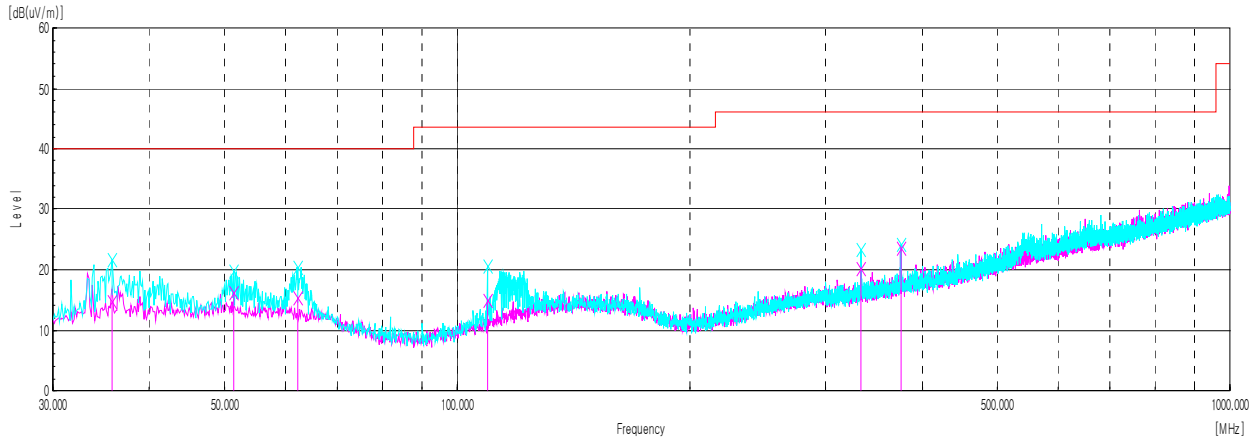
Horizontal/Vertical



Test results (Below 1 000 ㎒) – Worst case: 802.11g mode / 2 437 ㎒

Frequency	Pol.	Reading	Ant. Factor	Amp. + Cable	DCF	Result	Limit	Margin
(㎒)	(V/H)	(dB(㎶))	(dB)	(dB)	(dB)	(dB(㎶/m))	(dB(㎶/m))	(dB)
Quasi peak data								
35.82	V	27.9	17.58	-30.66	-	14.82	40.00	25.18
51.46	V	28.1	18.30	-30.27	-	16.13	40.00	23.87
62.25	V	27.9	17.38	-30.07	-	15.21	40.00	24.79
109.54[1)]	V	28.4	15.79	-29.24	-	14.95	43.50	28.55
333.37[1)]	V	26.7	20.03	-26.54	-	20.19	46.00	25.81
375.08[1)]	V	28.8	20.95	-26.16	-	23.59	46.00	22.41

Horizontal/Vertical

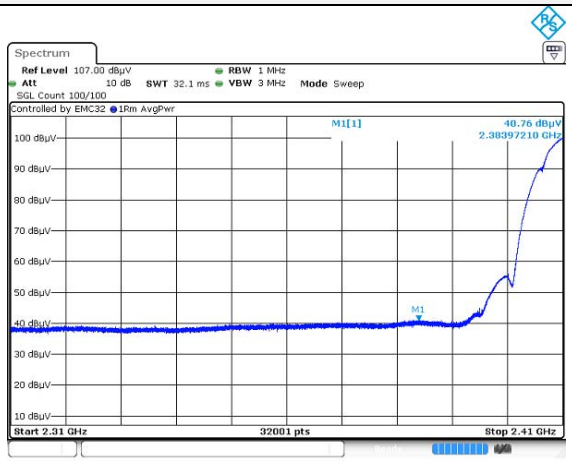


Test results (Above 1 000 ㎒)
802.11b

2 412 ㎒

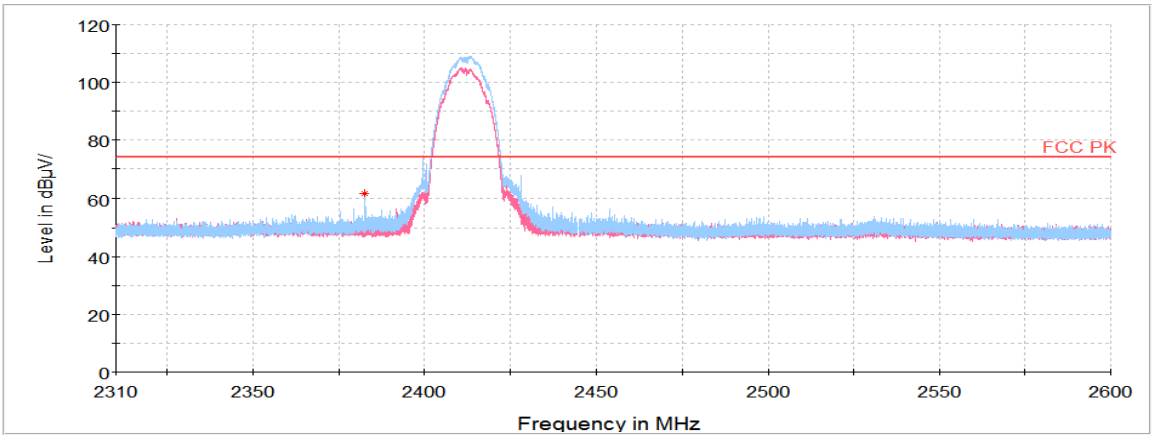
Frequency	Pol.	Reading	Ant. Factor	Amp. + Cable	DCF	Result	Limit	Margin
(㎒)	(V/H)	(dB(㎶))	(dB)	(dB)	(dB)	(dB(㎶/m))	(dB(㎶/m))	(dB)
Peak data								
2 383.97[1)]	H	57.20	31.99	-27.79	-	61.40	74.00	12.60
3 988.47[1)]	V	68.23	33.00	-53.77	-	47.46	74.00	26.54
4 824.03[1)]	H	69.56	33.79	-52.88	-	50.47	74.00	23.53
7 229.67	V	60.92	35.30	-50.58	-	45.64	74.00	28.36
Average Data								
2 383.97[1)]	H	40.76	31.99	-27.79	-	44.96	54.00	9.04

Average data

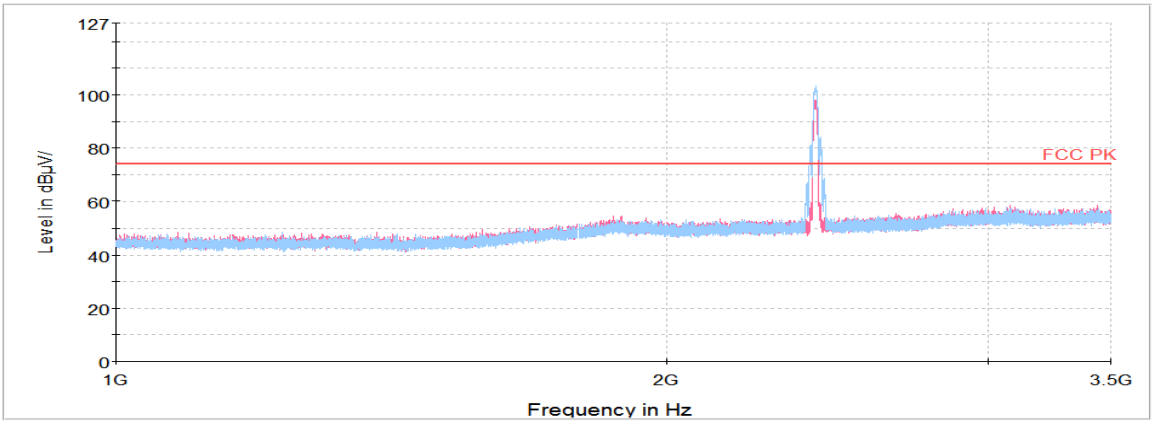


Blank

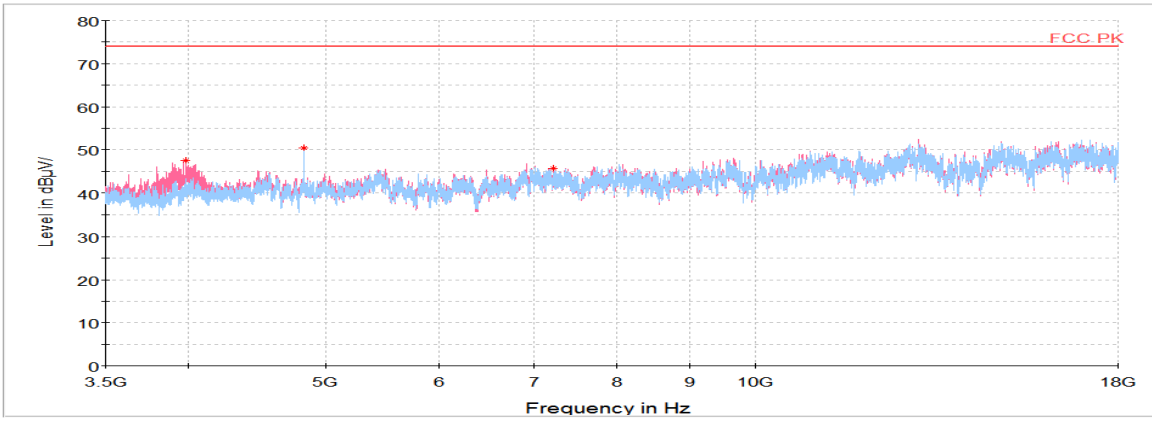
Horizontal/Vertical for Band-edge



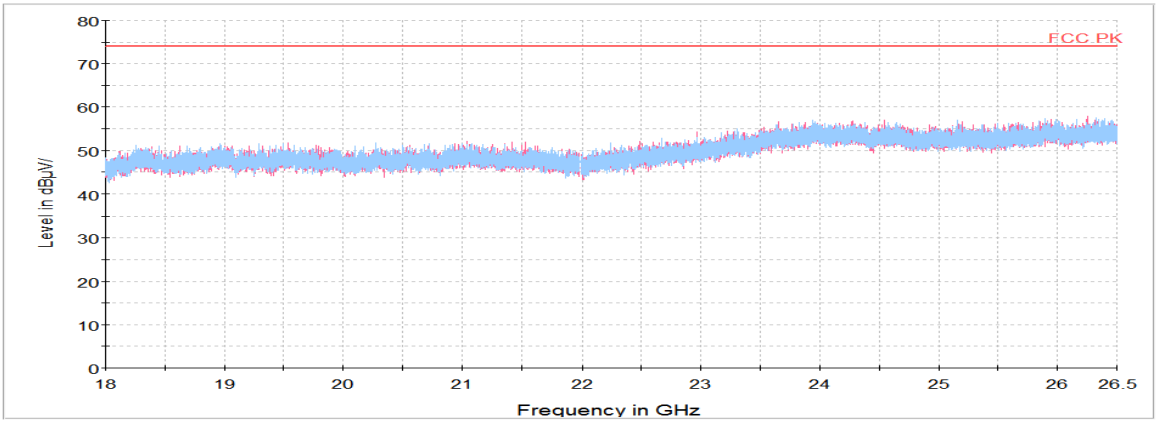
Horizontal/Vertical for 1 ㎓ ~ 3.5 ㎓



Horizontal/Vertical for 3.5 ㎓ ~ 18 ㎓

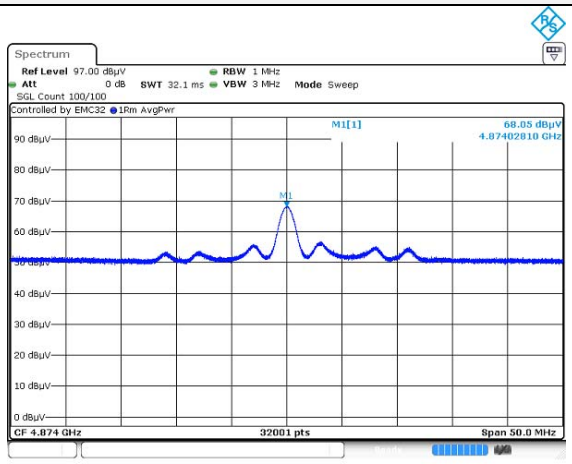


Horizontal/Vertical for 18 ㎓ ~ 26.5 ㎓

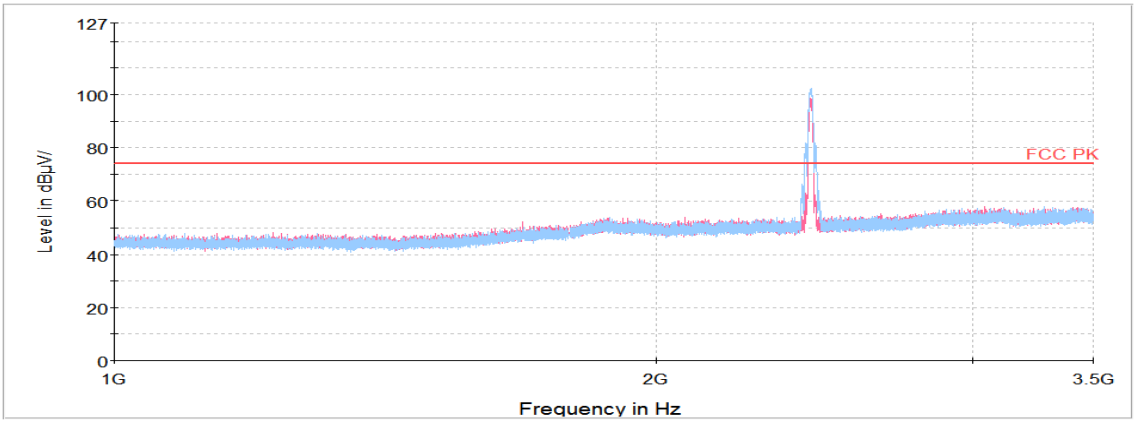


2 437 MHz

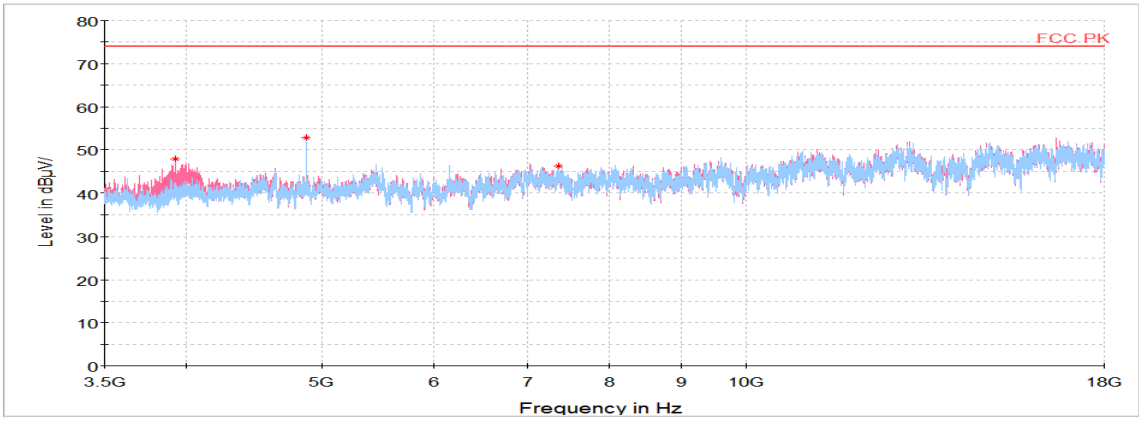
Frequency	Pol.	Reading	Ant. Factor	Amp. + Cable	DCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(μV))	(dB)	(dB)	(dB)	(dB(μV/m))	(dB(μV/m))	(dB)
Peak data								
3 930.02[1)]	V	68.83	33.01	-54.04	-	47.80	74.00	26.20
4 874.03[1)]	H	71.74	33.82	-52.86	-	52.70	74.00	21.30
7 368.33[1)]	H	61.75	35.30	-50.90	-	46.15	74.00	27.85
Average Data								
4 874.03[1)]	H	68.05	33.82	-52.86	-	49.01	54.00	4.99

Average data	
	Blank

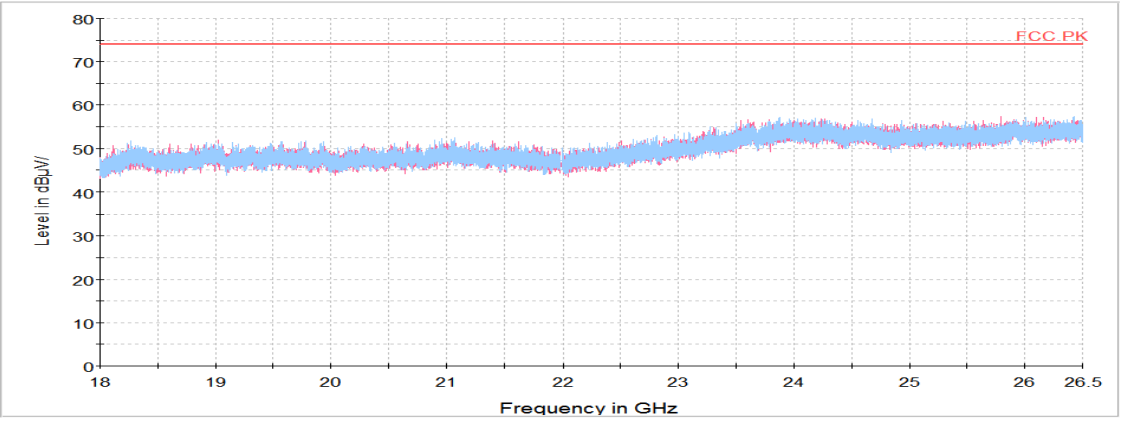
Horizontal/Vertical for 1 ㎓ ~ 3.5 ㎓



Horizontal/Vertical for 3.5 ㎓ ~ 18 ㎓



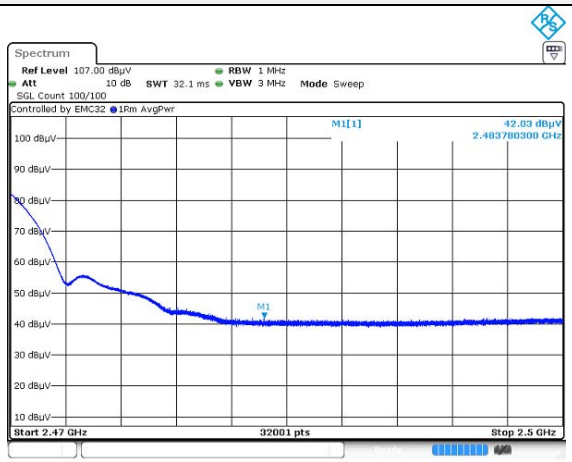
Horizontal/Vertical for 18 ㎓ ~ 26.5 ㎓

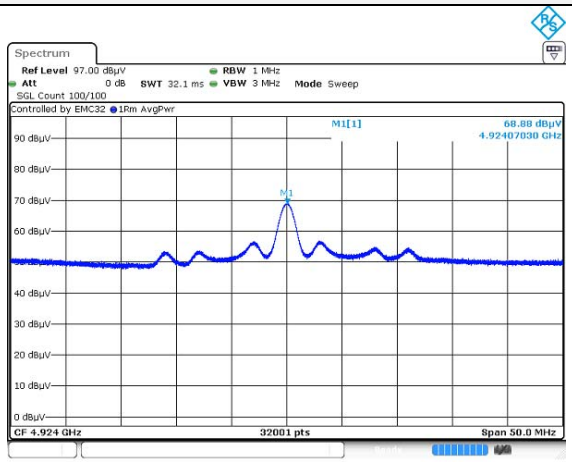


2 462 ㎒

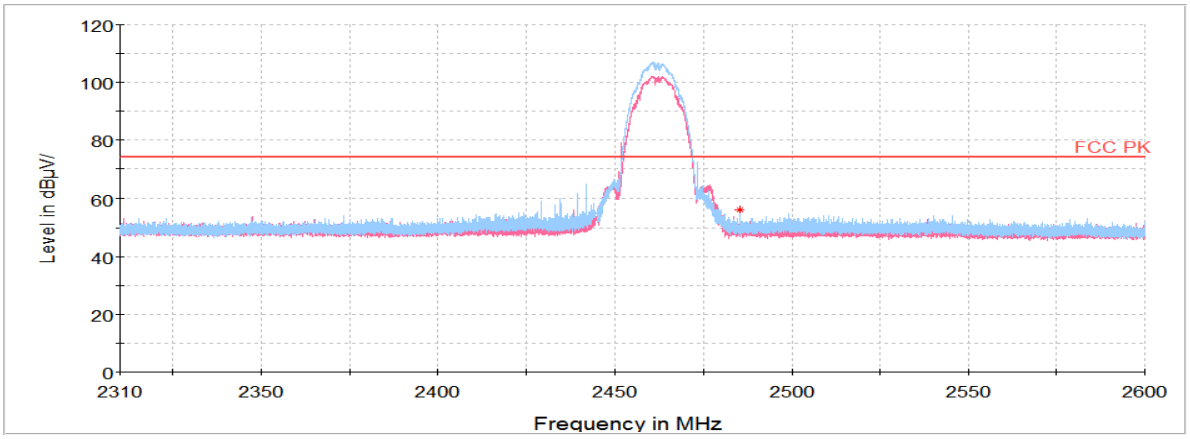
Frequency	Pol.	Reading	Ant. Factor	Amp. + Cable	DCF	Result	Limit	Margin
(㎒)	(V/H)	(dB(㎶))	(dB)	(dB)	(dB)	(dB(㎶/m))	(dB(㎶/m))	(dB)
Peak data								
2 483.78[1)]	H	52.22	32.17	-28.55	-	55.84	74.00	18.16
4 058.70[1)]	V	67.82	33.07	-53.40	-	47.49	74.00	26.51
4 924.07[1)]	H	70.52	33.85	-52.79	-	51.58	74.00	22.42
7 362.89[1)]	H	61.42	35.30	-50.89	-	45.83	74.00	28.17
Average Data								
2 483.78[1)]	H	42.03	32.17	-28.55	-	45.65	54.00	8.35
4 924.07[1)]	H	68.88	33.85	-52.79	-	49.94	54.00	4.06

Average data

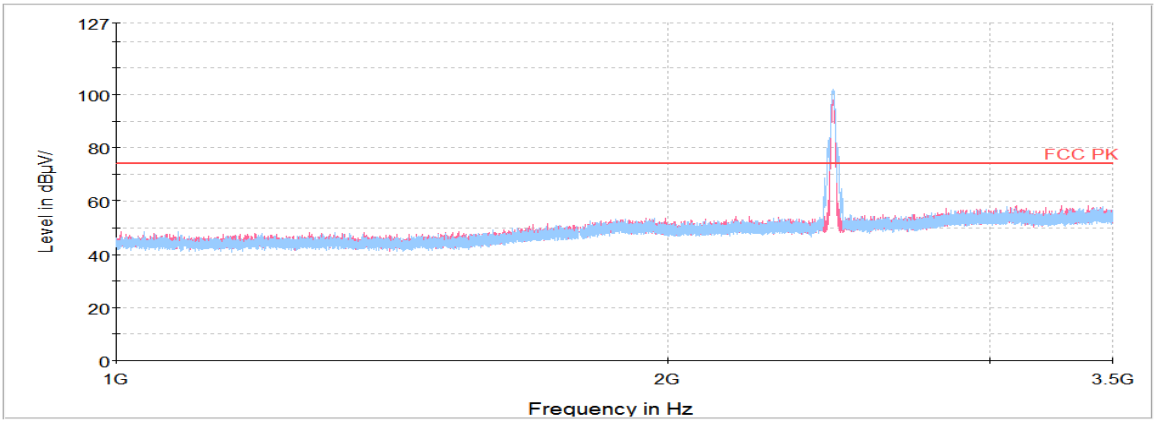




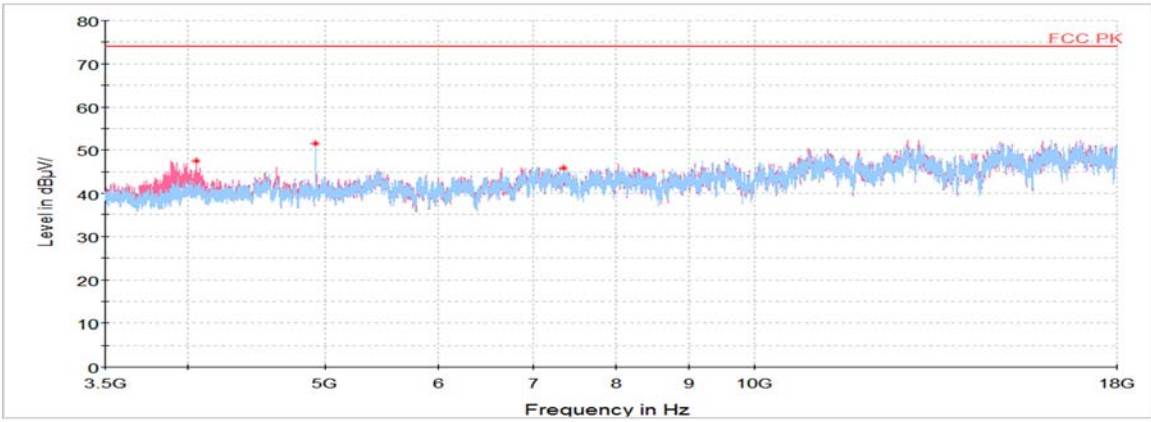
Horizontal/Vertical for Band-edge



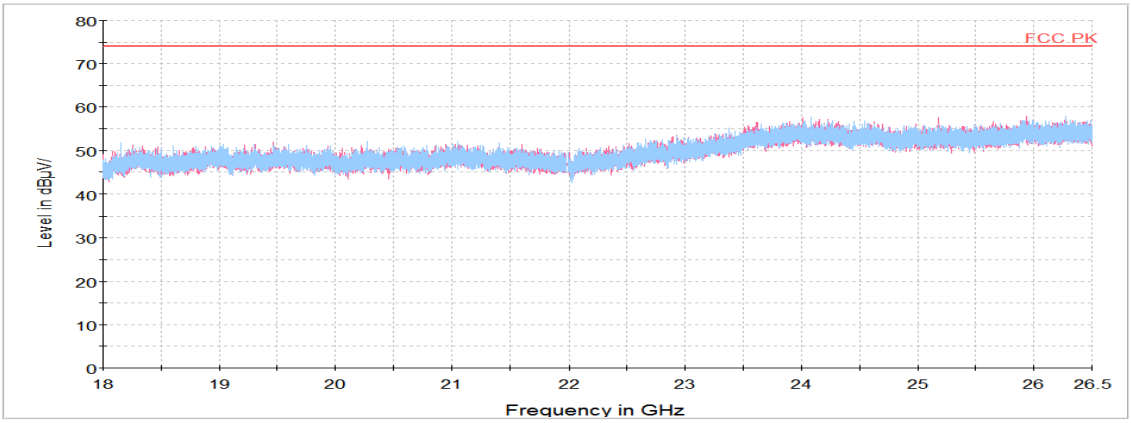
Horizontal/Vertical for 1 ㎓ ~ 3.5 ㎓



Horizontal/Vertical for 3.5 ㎓ ~ 18 ㎓



Horizontal/Vertical for 18 ㎓ ~ 26.5 ㎓

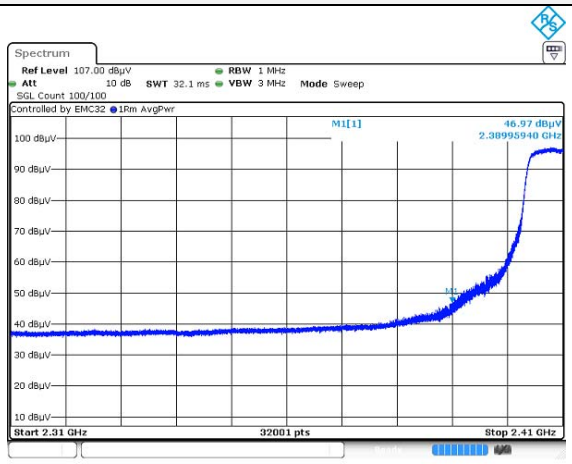


802.11g

2 412 MHz

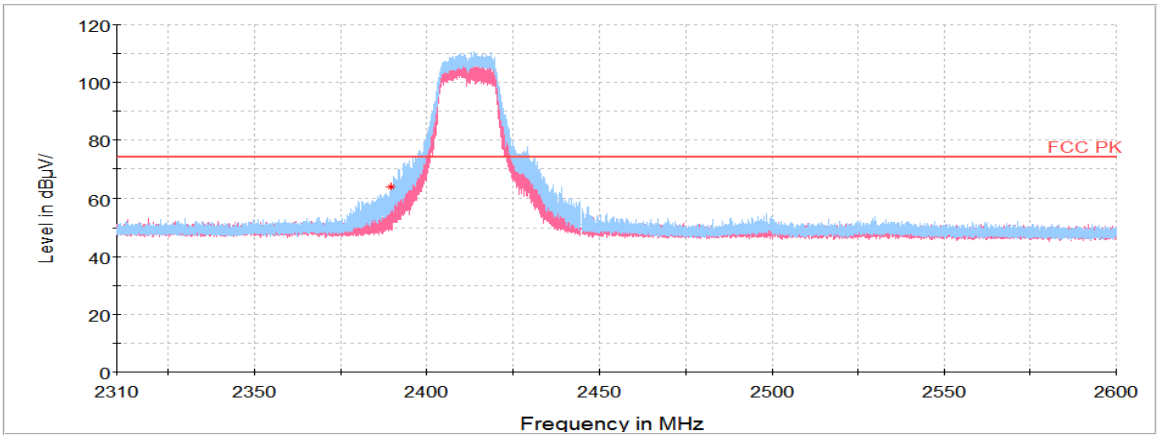
Frequency	Pol.	Reading	Ant. Factor	Amp. + Cable	DCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(μV))	(dB)	(dB)	(dB)	(dB(μV/m))	(dB(μV/m))	(dB)
Peak data								
2 389.96[1)]	H	59.54	32.00	-27.79	-	63.75	74.00	10.25
3 973.52[1)]	V	68.19	33.01	-53.84	-	47.36	74.00	26.64
4 823.58[1)]	H	67.68	33.79	-52.88	-	48.59	74.00	25.41
7 178.47	H	61.97	35.30	-50.46	-	46.81	74.00	27.19
Average Data								
2 389.96[1)]	H	46.97	32.00	-27.79	0.27	51.45	54.00	2.55

Average data

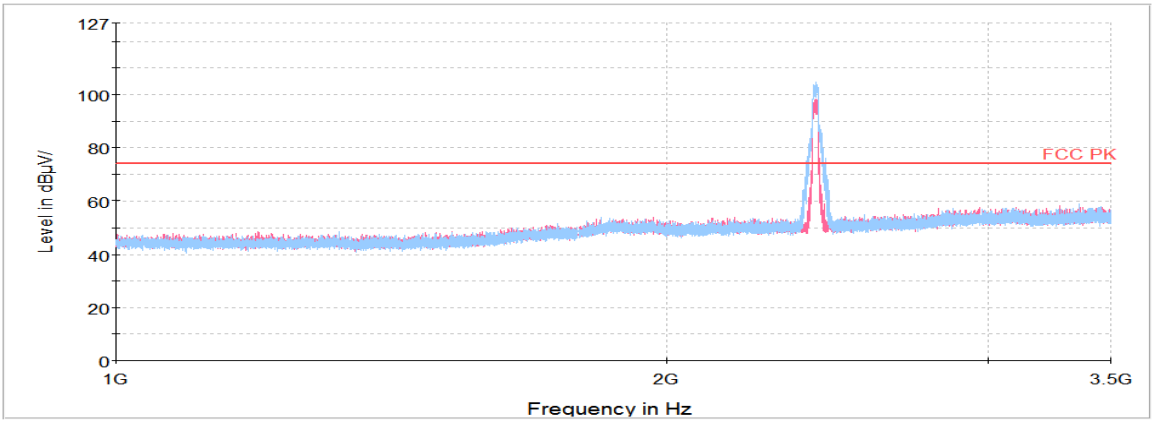


Blank

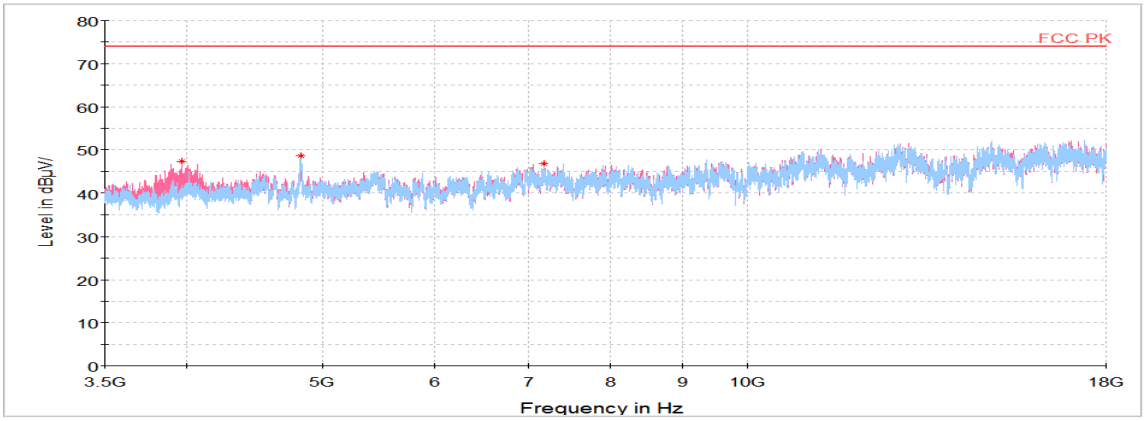
Horizontal/Vertical for Band-edge



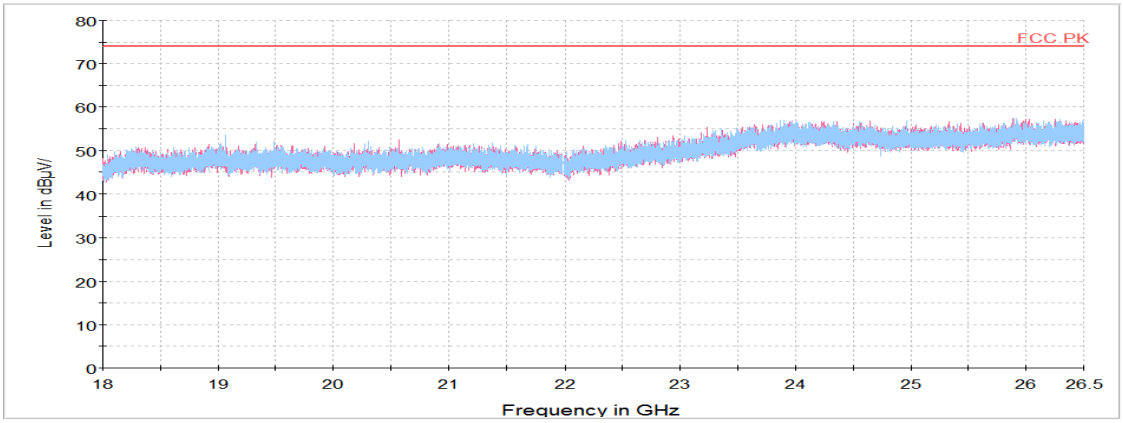
Horizontal/Vertical for 1 ㎓ ~ 3.5 ㎓



Horizontal/Vertical for 3.5 ㎓ ~ 18 ㎓



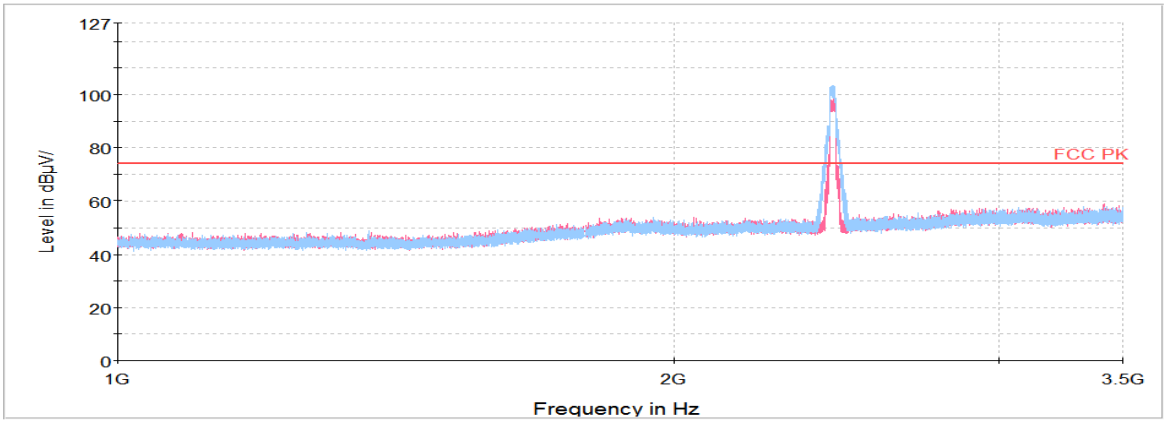
Horizontal/Vertical for 18 ㎓ ~ 26.5 ㎓



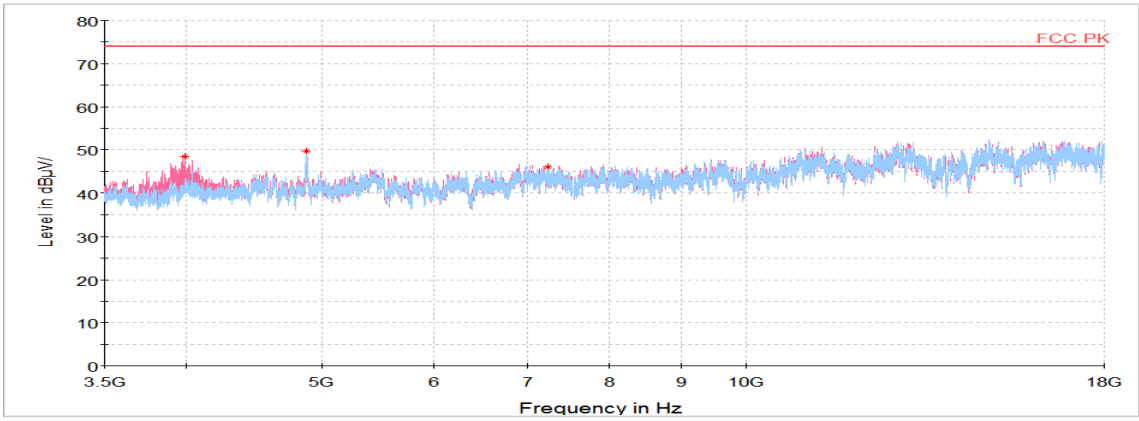
2 437 ㎒

Frequency	Pol.	Reading	Ant. Factor	Amp. + Cable	DCF	Result	Limit	Margin
(㎒)	(V/H)	(dB(㎶))	(dB)	(dB)	(dB)	(dB(㎶/m))	(dB(㎶/m))	(dB)
Peak data								
3 990.73[1)]	V	69.18	33.00	-53.76	-	48.42	74.00	25.58
4 877.05[1)]	V	68.72	33.83	-52.86	-	49.69	74.00	24.31
7 242.36[1)]	V	61.35	35.30	-50.61	-	46.04	74.00	27.96
Average Data								
No spurious emissions were detected within 20 ㏈ of the limit.								

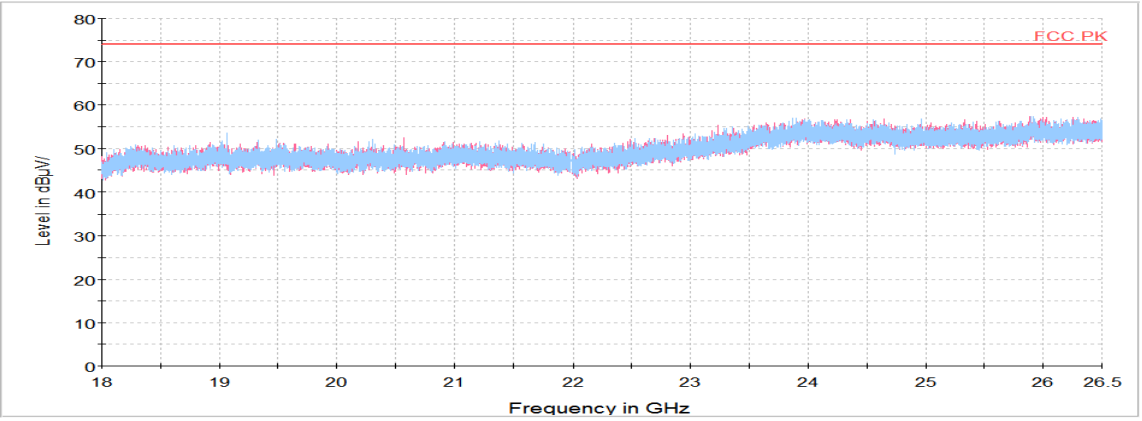
Horizontal/Vertical for 1 ㎓ ~ 3.5 ㎓



Horizontal/Vertical for 3.5 ㎓ ~ 18 ㎓



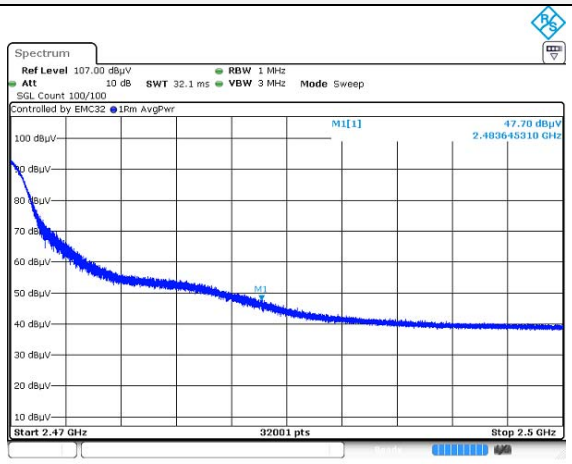
Horizontal/Vertical for 18 ㎓ ~ 26.5 ㎓



2 462 MHz

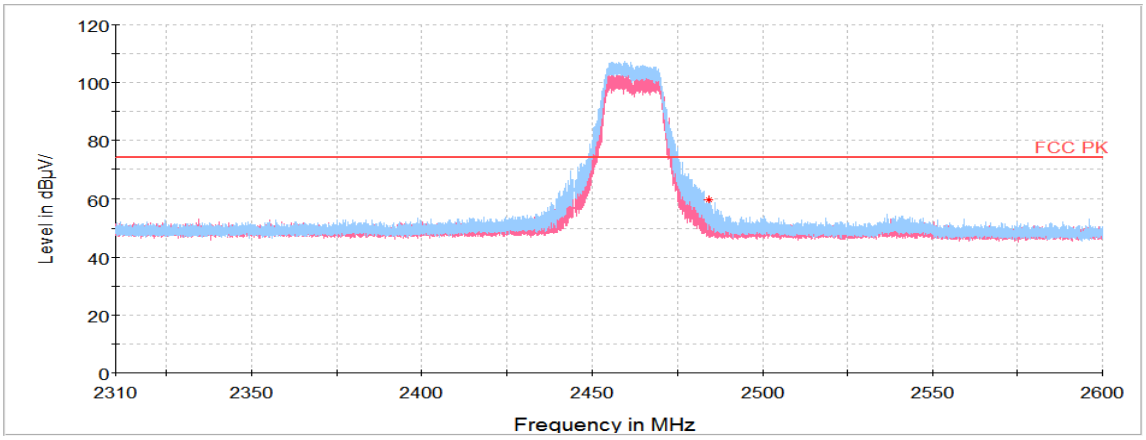
Frequency	Pol.	Reading	Ant. Factor	Amp. + Cable	DCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(μV))	(dB)	(dB)	(dB)	(dB(μV/m))	(dB(μV/m))	(dB)
Peak data								
2 483.65[1)]	H	55.86	32.17	-28.54	-	59.49	74.00	14.51
3 998.89[1)]	V	67.70	33.00	-53.72	-	46.98	74.00	27.02
4 925.53[1)]	H	64.13	33.86	-52.79	-	45.20	74.00	28.80
7 367.42[1)]	H	61.53	35.30	-50.90	-	45.93	74.00	28.07
Average Data								
2 483.65[1)]	H	47.70	32.17	-28.54	0.27	51.60	54.00	2.40

Average data

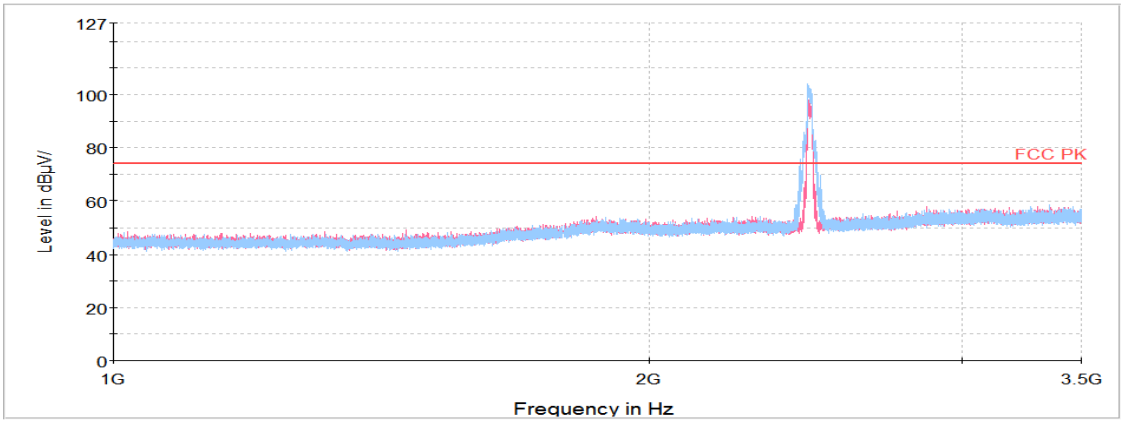


Blank

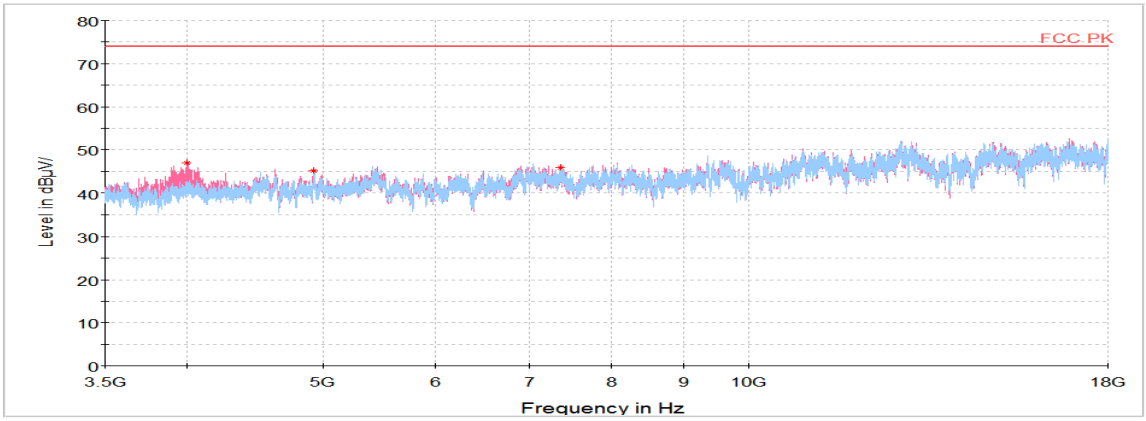
Horizontal/Vertical for Band-edge



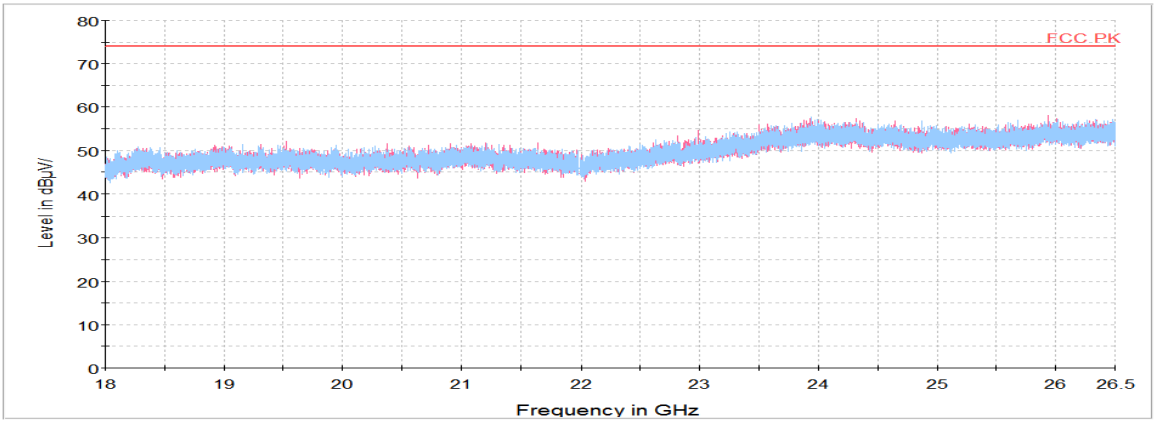
Horizontal/Vertical for 1 ㎓ ~ 3.5 ㎓



Horizontal/Vertical for 3.5 ㎓ ~ 18 ㎓



Horizontal/Vertical for 18 ㎓ ~ 26.5 ㎓

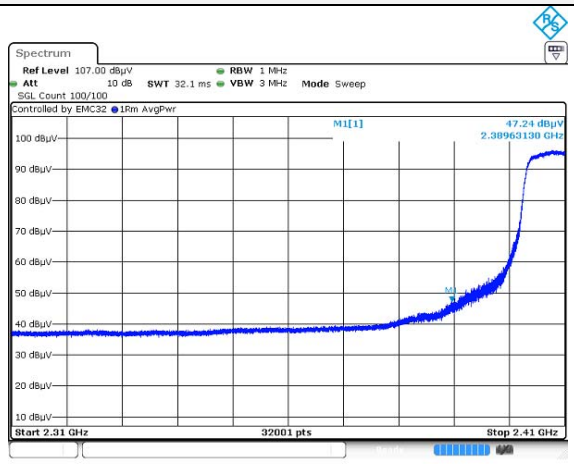


802.11n HT20

2 412 ㎒

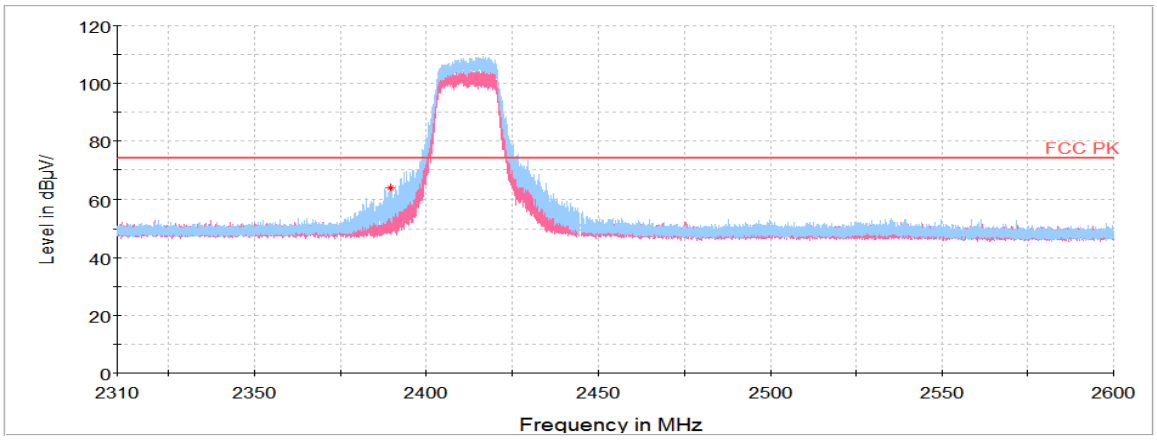
Frequency	Pol.	Reading	Ant. Factor	Amp. + Cable	DCF	Result	Limit	Margin
(㎒)	(V/H)	(dB(㎶))	(dB)	(dB)	(dB)	(dB(㎶/m))	(dB(㎶/m))	(dB)
Peak data								
2 389.63[1)]	H	59.47	32.00	-27.79	-	63.68	74.00	10.32
3 924.13[1)]	V	67.87	33.02	-54.07	-	46.82	74.00	27.18
4 818.59[1)]	V	67.11	33.79	-52.88	-	48.02	74.00	25.98
7 178.02	H	61.64	35.30	-50.46	-	46.48	74.00	27.52
Average Data								
2 389.63[1)]	H	47.24	32.00	-27.79	0.29	51.74	54.00	2.26

Average data

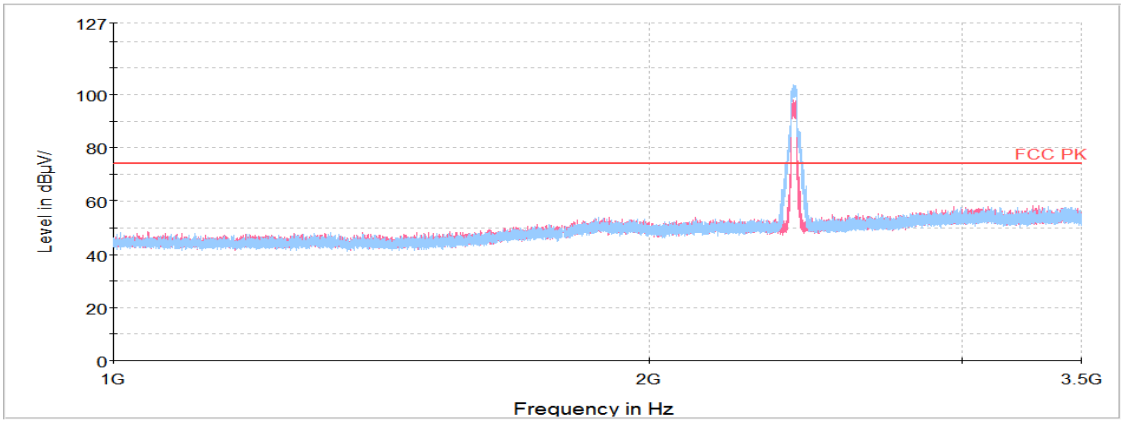


Blank

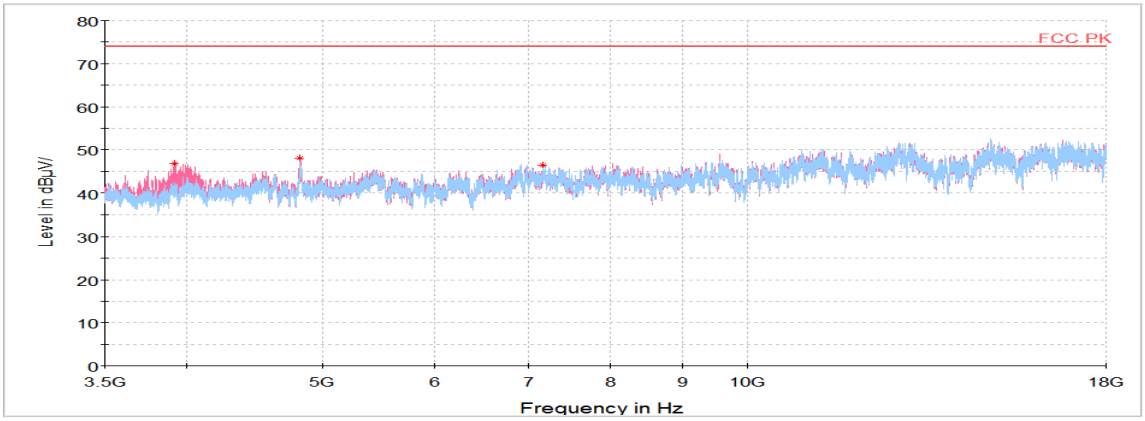
Horizontal/Vertical for Band-edge



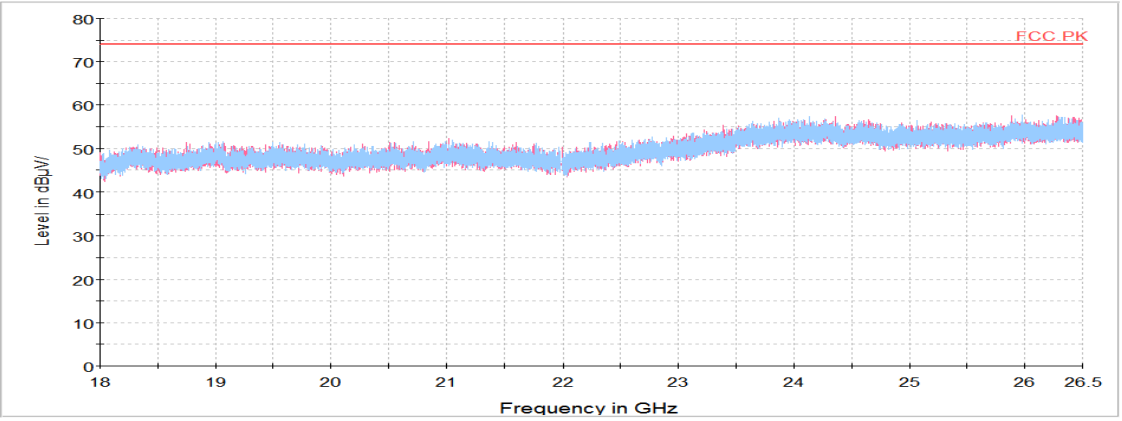
Horizontal/Vertical for 1 ㎓ ~ 3.5 ㎓



Horizontal/Vertical for 3.5 ㎓ ~ 18 ㎓



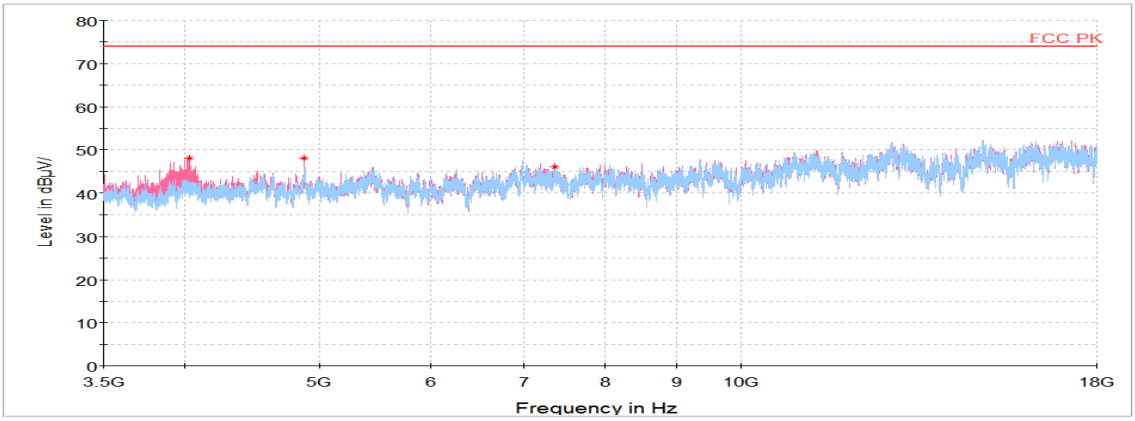
Horizontal/Vertical for 18 ㎓ ~ 26.5 ㎓



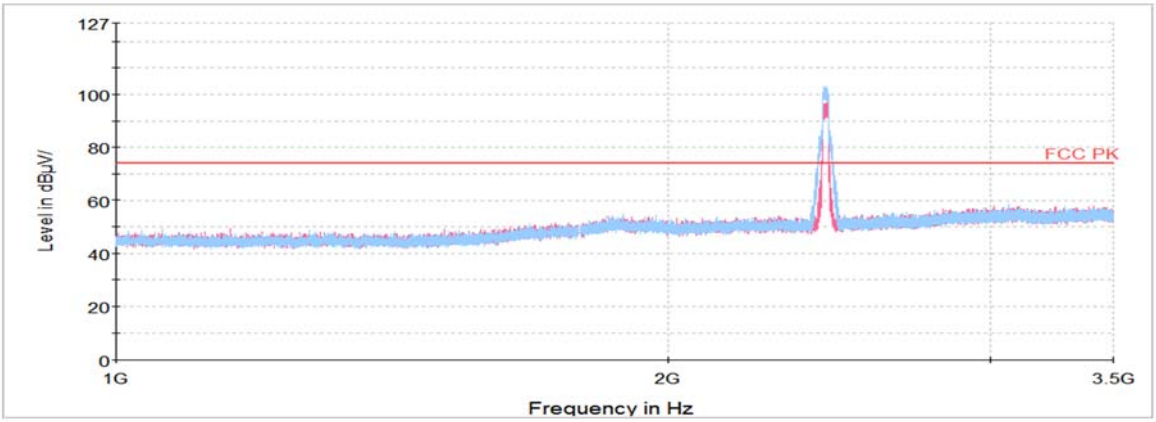
2 437 ㎒

Frequency	Pol.	Reading	Ant. Factor	Amp. + Cable	DCF	Result	Limit	Margin
(㎒)	(V/H)	(dB(㎶))	(dB)	(dB)	(dB)	(dB(㎶/m))	(dB(㎶/m))	(dB)
Peak data								
4 036.50[1)]	V	68.44	33.04	-53.52	-	47.96	74.00	26.04
4 877.05[1)]	V	67.08	33.83	-52.86	-	48.05	74.00	25.95
7 371.95[1)]	H	61.58	35.30	-50.91	-	45.97	74.00	28.03
Average Data								
No spurious emissions were detected within 20 ㏈ of the limit.								

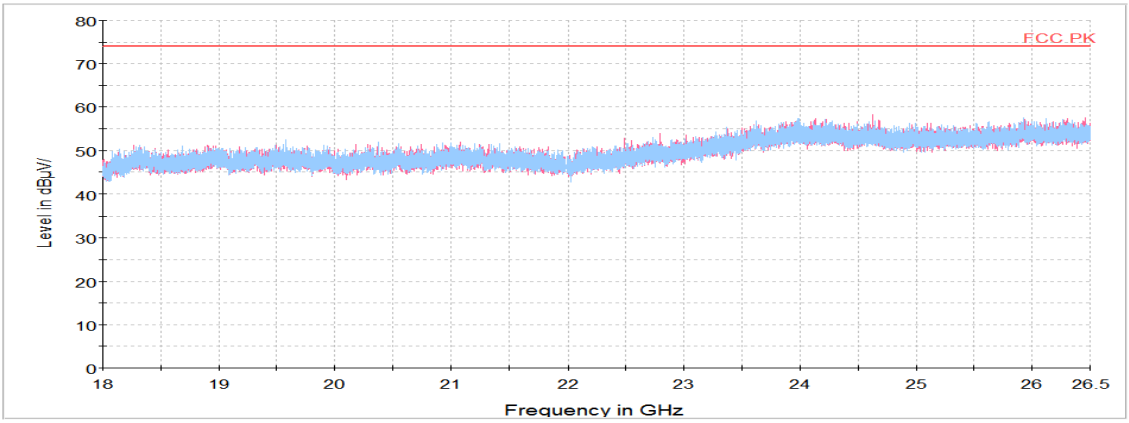
Horizontal/Vertical for 1 ㎓ ~ 3.5 ㎓



Horizontal/Vertical for 3.5 ㎓ ~ 18 ㎓



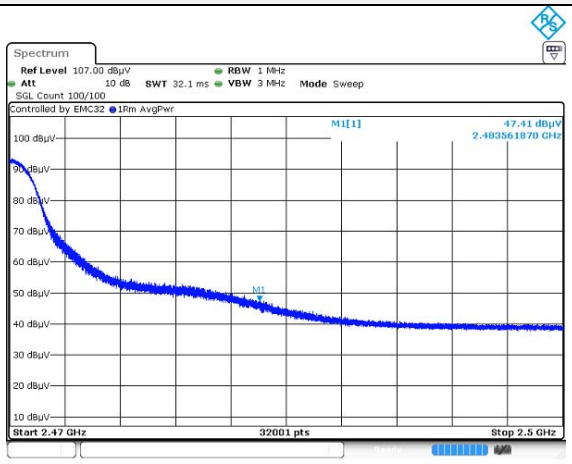
Horizontal/Vertical for 18 ㎓ ~ 26.5 ㎓



2 462 ㎒

Frequency	Pol.	Reading	Ant. Factor	Amp. + Cable	DCF	Result	Limit	Margin
(㎒)	(V/H)	(dB(㎶))	(dB)	(dB)	(dB)	(dB(㎶/m))	(dB(㎶/m))	(dB)
Peak data								
2 483.56[1)]	H	59.17	32.17	-28.54	-	62.80	74.00	11.20
4 007.05[1)]	V	68.35	33.01	-53.68	-	47.68	74.00	26.32
4 987.61[1)]	V	63.17	33.89	-52.61	-	44.45	74.00	29.55
7 371.50[1)]	V	61.99	35.30	-50.91	-	46.38	74.00	27.62
Average Data								
2 483.56[1]	H	47.41	32.17	-28.54	0.29	51.33	54.00	2.67

Average data



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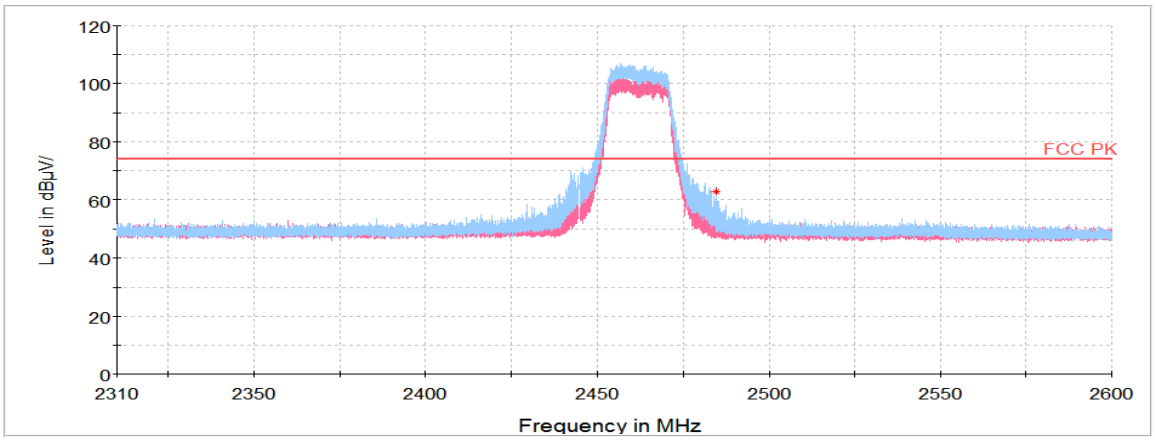
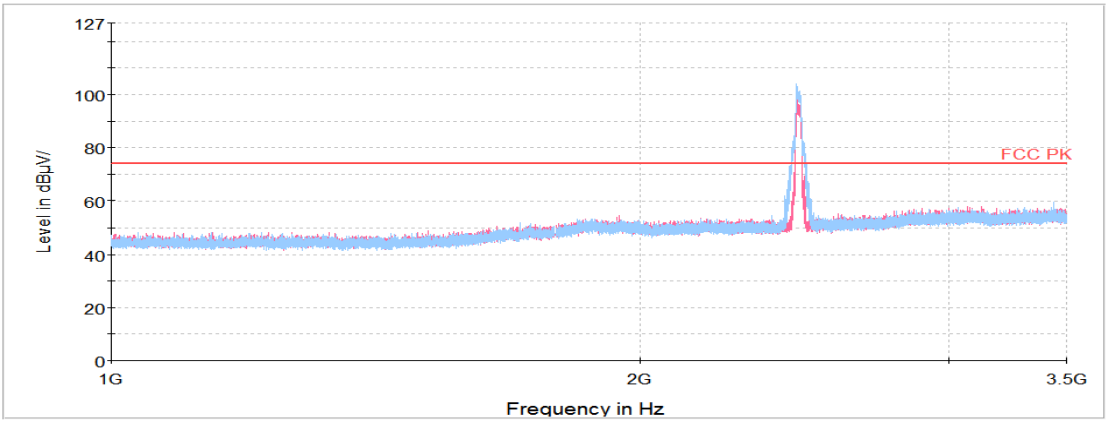
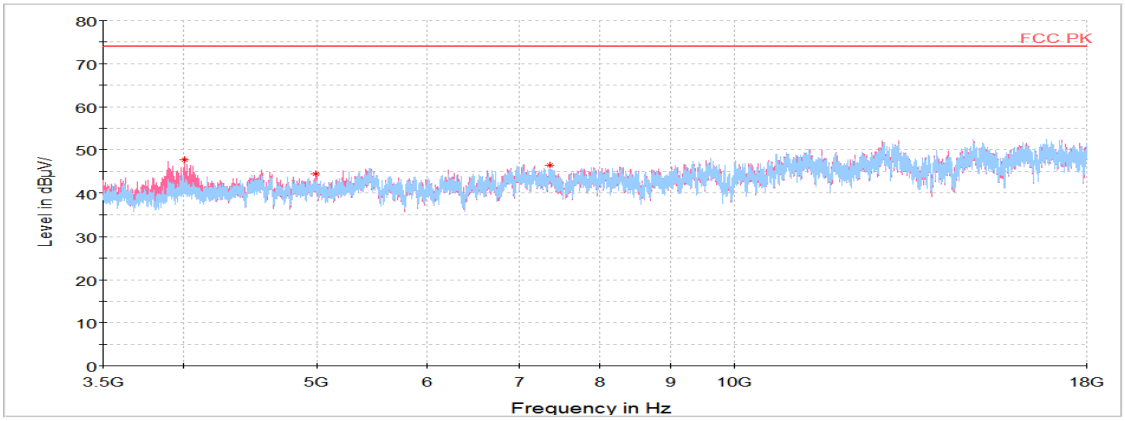
Horizontal/Vertical for Band-edge



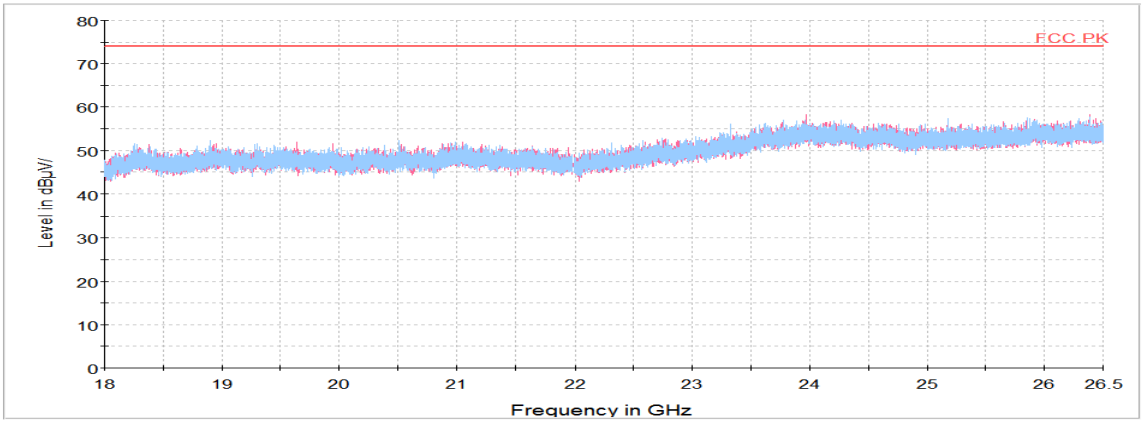
Horizontal/Vertical for 1 ㎓ ~ 3.5 ㎓



Horizontal/Vertical for 3.5 ㎓ ~ 18 ㎓



Horizontal/Vertical for 18 ㎓ ~ 26.5 ㎓

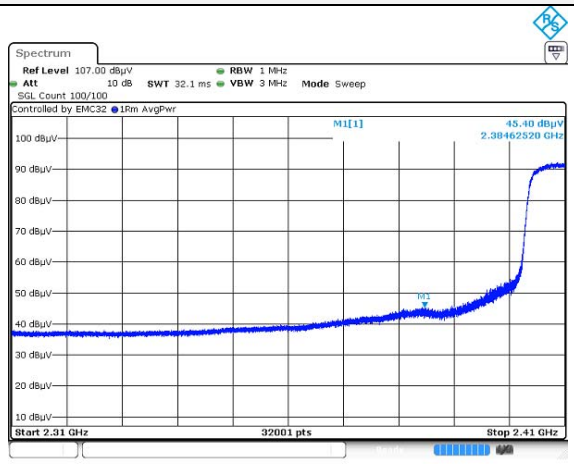


802.11n HT40

2 422 MHz

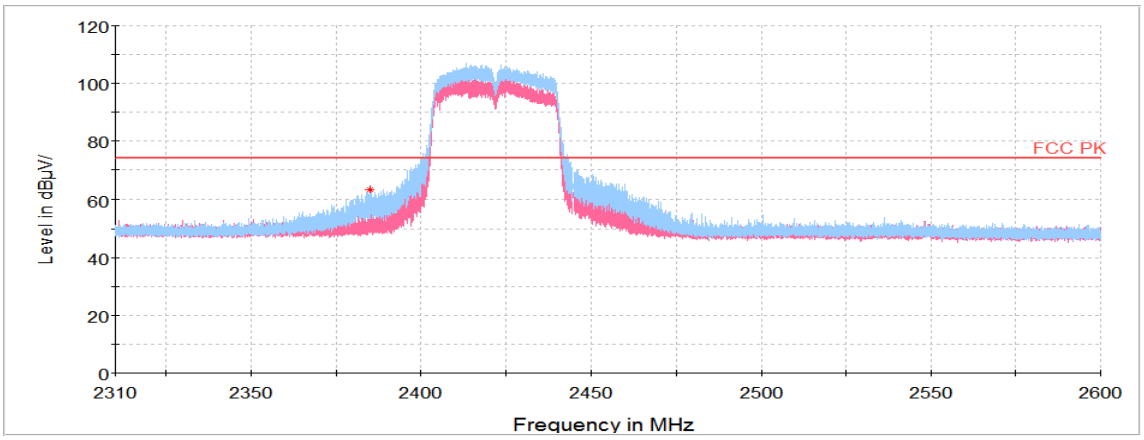
Frequency	Pol.	Reading	Ant. Factor	Amp. + Cable	DCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(μV))	(dB)	(dB)	(dB)	(dB(μV/m))	(dB(μV/m))	(dB)
Peak data								
2 384.63[1)]	H	58.79	31.99	-27.79	-	62.99	74.00	11.01
4 007.50[1)]	V	68.27	33.01	-53.67	-	47.61	74.00	26.39
4 819.05[1)]	H	63.27	33.79	-52.88	-	44.18	74.00	29.82
7 185.72	H	61.40	35.30	-50.47	-	46.23	74.00	27.77
Average Data								
2 384.63[1)]	H	45.40	31.99	-27.79	0.56	50.16	54.00	3.84

Average data

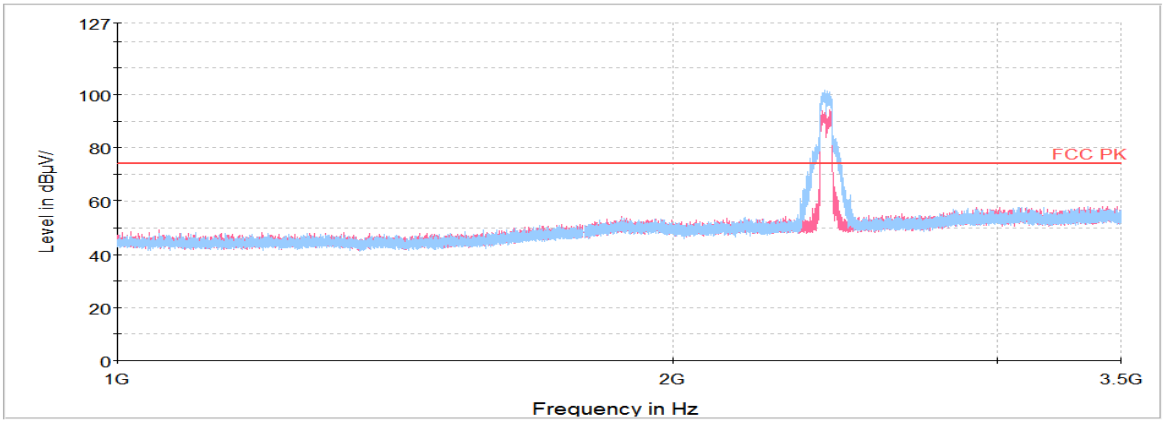


Blank

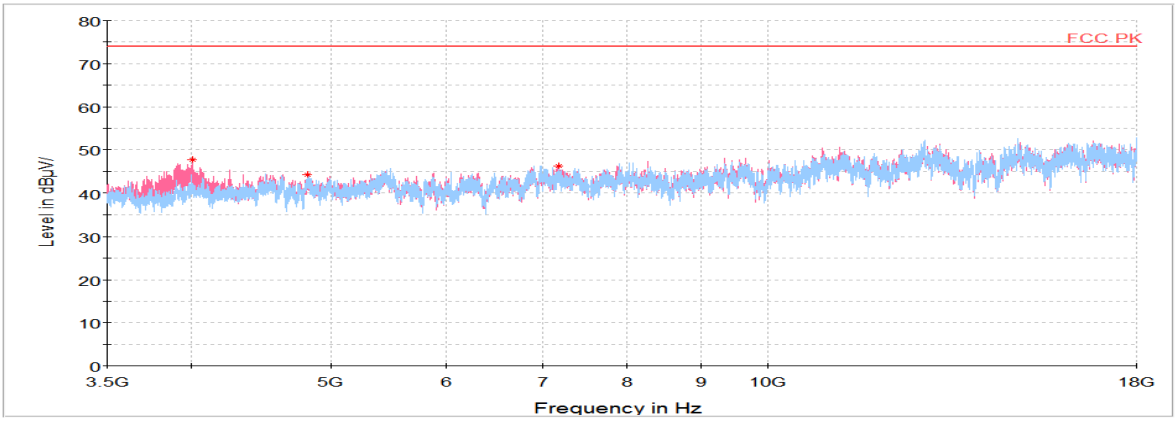
Horizontal/Vertical for Band-edge



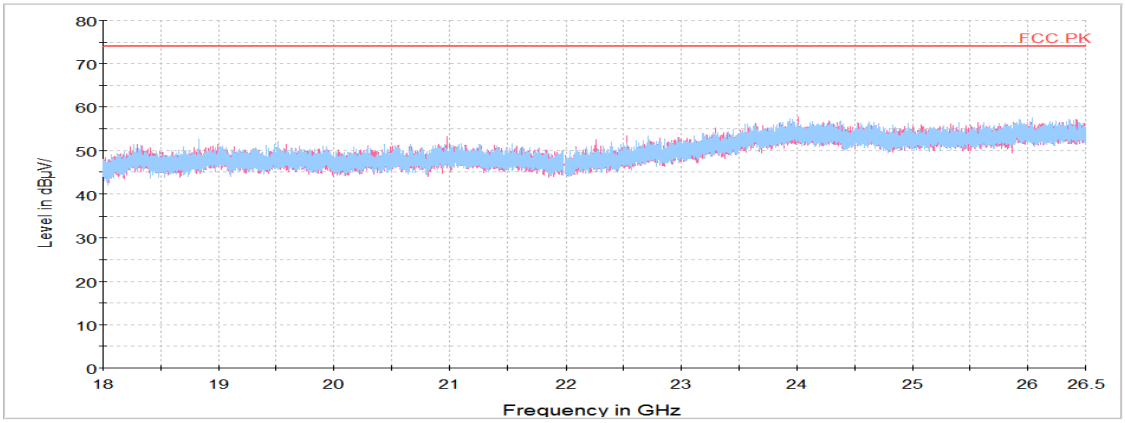
Horizontal/Vertical for 1 ㎓ ~ 3.5 ㎓



Horizontal/Vertical for 3.5 ㎓ ~ 18 ㎓



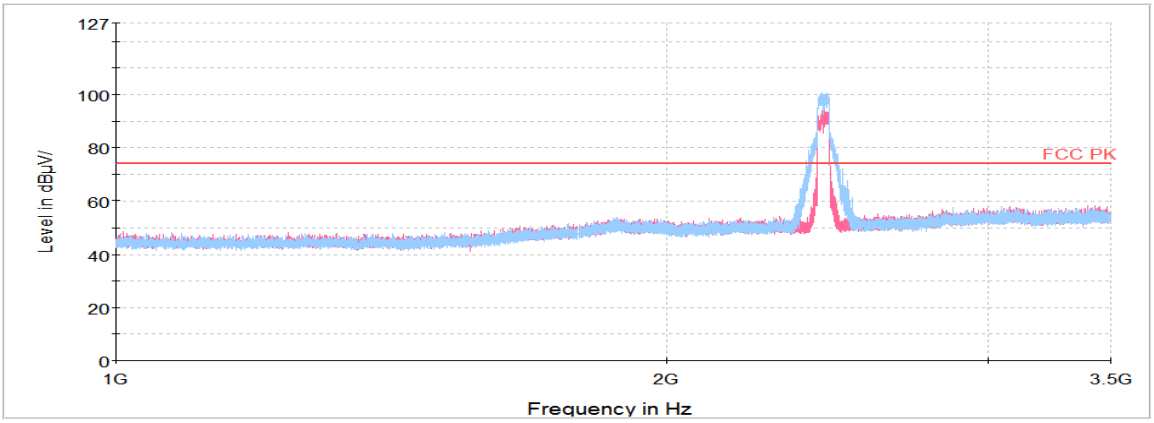
Horizontal/Vertical for 18 ㎓ ~ 26.5 ㎓



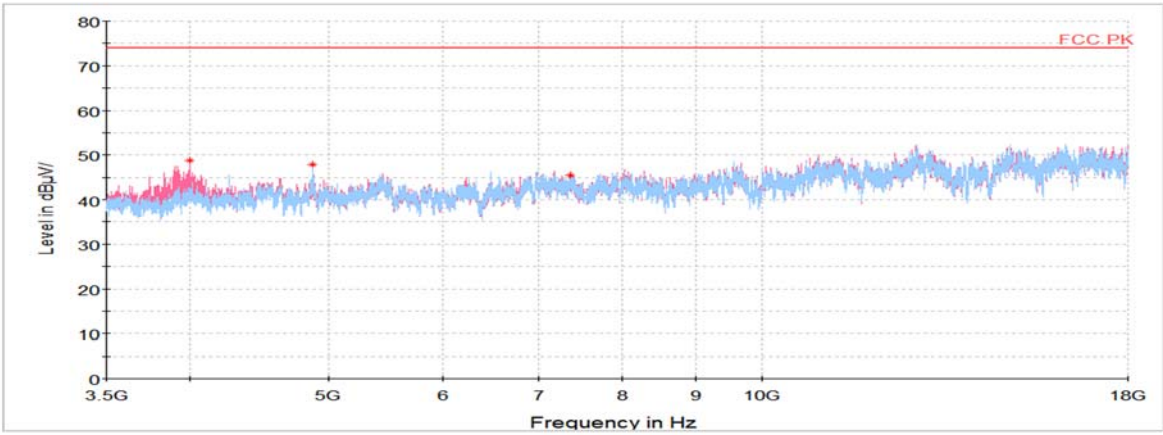
2 437 ㎒

Frequency	Pol.	Reading	Ant. Factor	Amp. + Cable	DCF	Result	Limit	Margin
(㎒)	(V/H)	(dB(㎶))	(dB)	(dB)	(dB)	(dB(㎶/m))	(dB(㎶/m))	(dB)
Peak data								
3 997.98[1)]	V	69.56	33.00	-53.72	-	48.84	74.00	25.16
4 876.59[1)]	H	66.90	33.83	-52.86	-	47.87	74.00	26.13
7 369.69[1)]	H	61.05	35.30	-50.90	-	45.45	74.00	28.55
Average Data								
No spurious emissions were detected within 20 ㏈ of the limit.								

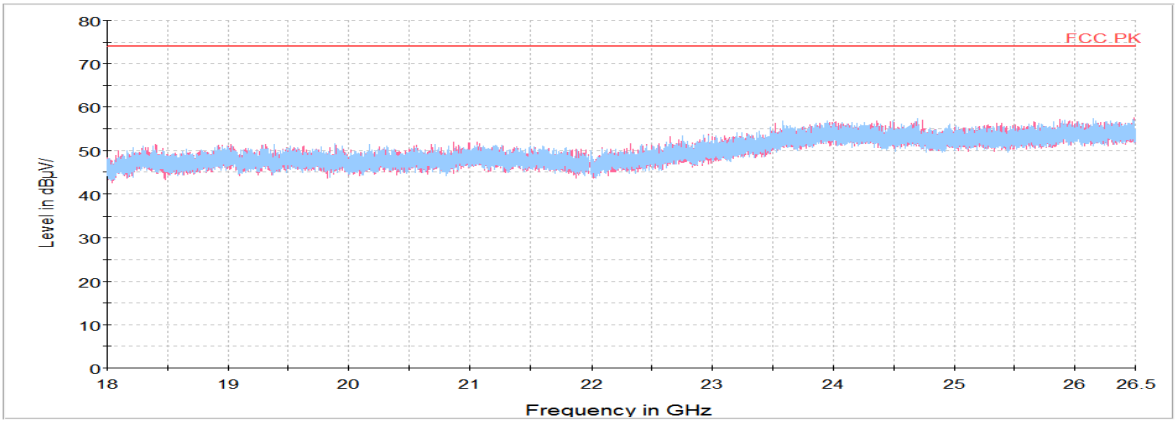
Horizontal/Vertical for 1 ㎓ ~ 3.5 ㎓



Horizontal/Vertical for 3.5 ㎓ ~ 18 ㎓



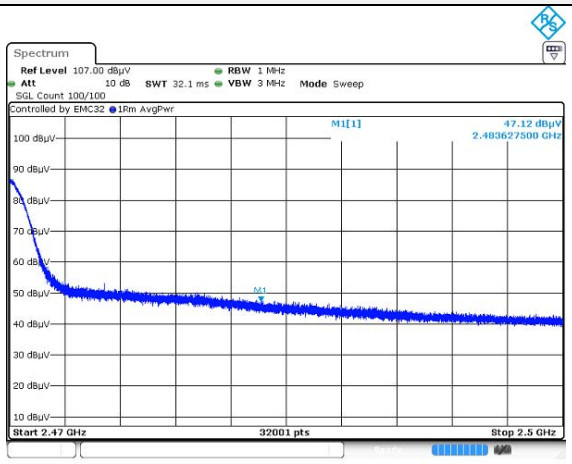
Horizontal/Vertical for 18 ㎓ ~ 26.5 ㎓



2 452 ㎒

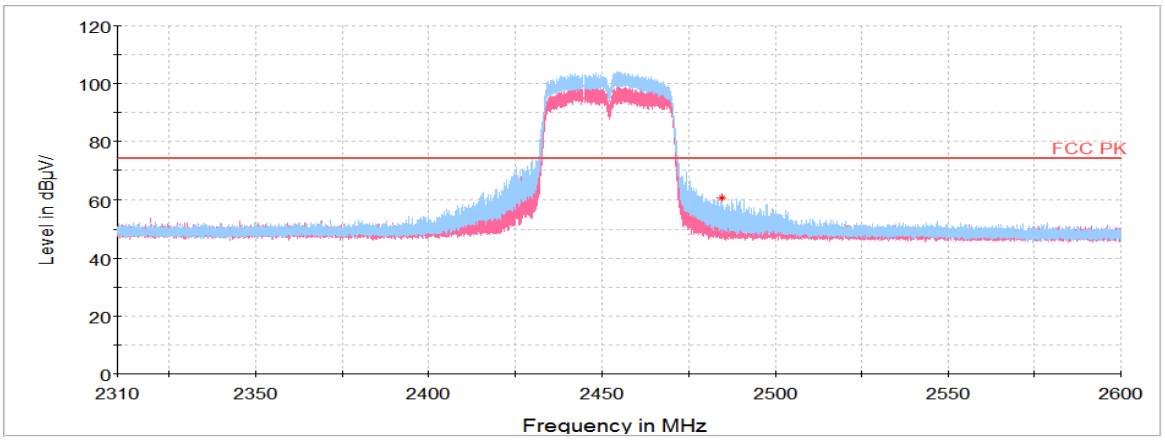
Frequency	Pol.	Reading	Ant. Factor	Amp. + Cable	DCF	Result	Limit	Margin
(㎒)	(V/H)	(dB(㎶))	(dB)	(dB)	(dB)	(dB(㎶/m))	(dB(㎶/m))	(dB)
Peak data								
2 483.63[1)]	H	56.98	32.17	-28.54	-	60.61	74.00	13.39
4 007.95[1)]	V	68.91	33.01	-53.67	-	48.25	74.00	25.75
4 901.97[1)]	H	65.38	33.84	-52.85	-	46.37	74.00	27.63
7 364.70[1)]	H	61.33	35.30	-50.89	-	45.74	74.00	28.26
Average Data								
2 483.63[1)]	H	47.12	32.17	-28.54	0.56	51.31	54.00	2.69

Average data

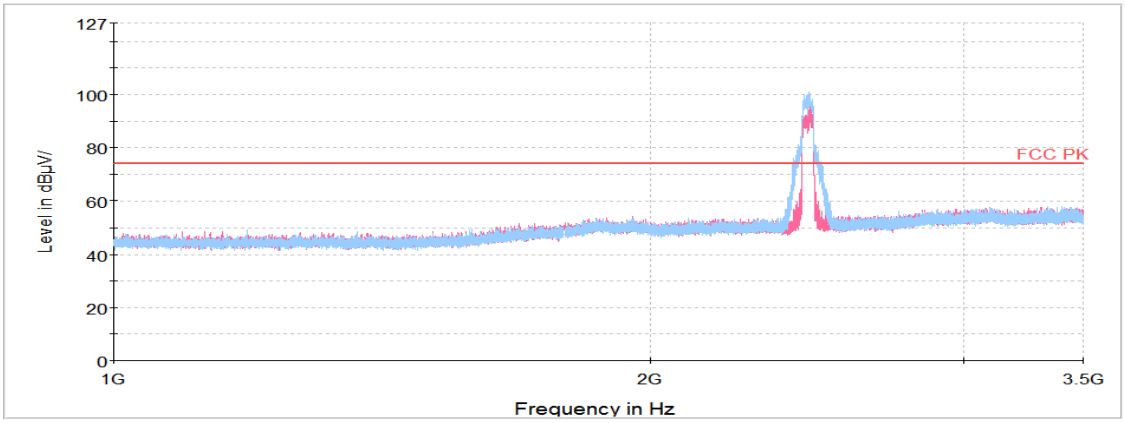


Blank

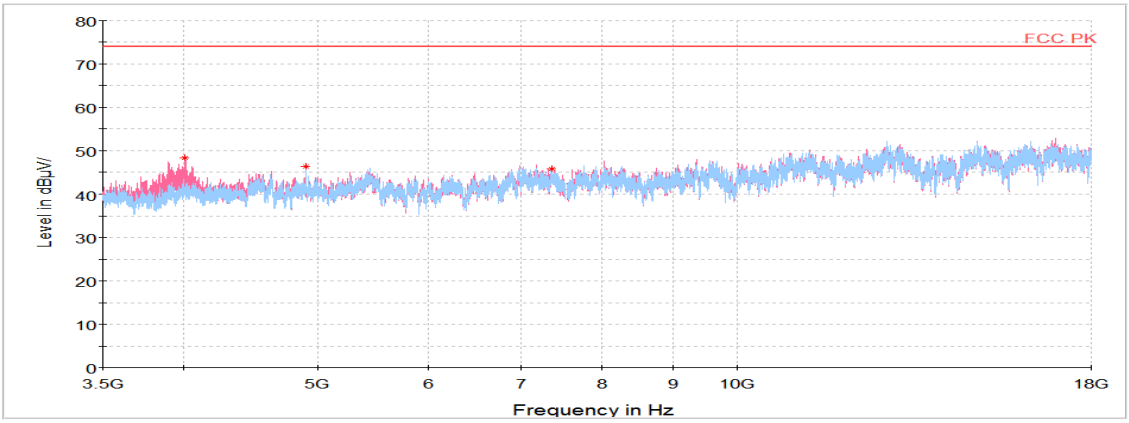
Horizontal/Vertical for Band-edge



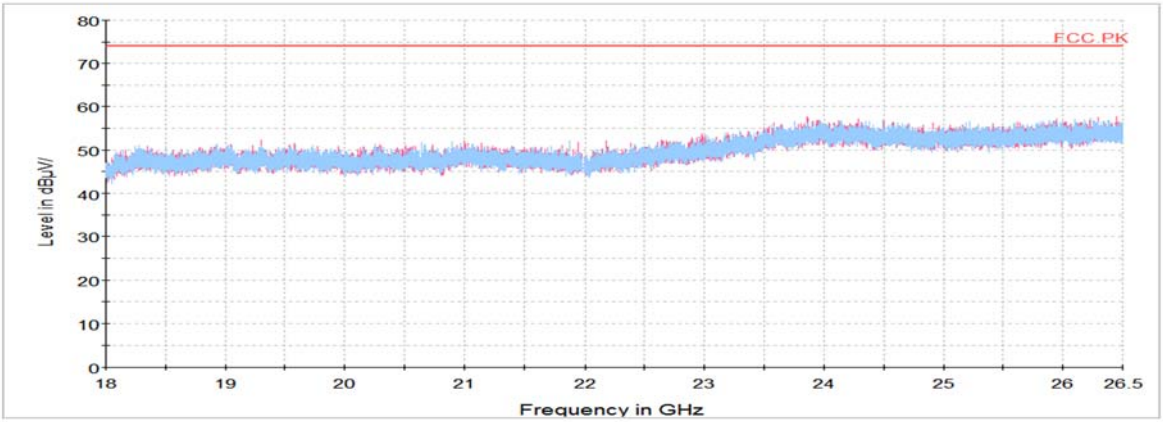
Horizontal/Vertical for 1 ㎓ ~ 3.5 ㎓



Horizontal/Vertical for 3.5 ㎓ ~ 18 ㎓

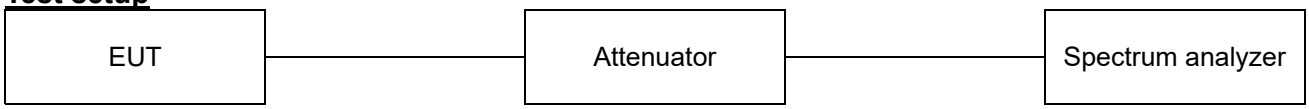


Horizontal/Vertical for 18 ㎓ ~ 26.5 ㎓



7.5. Conducted Spurious Emission

Test setup



Limit

According to §15.247(d) and RSS-247(5.5), 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 powr 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, 14.3.3
KDB 558074 D01 v05 - Section 8.5
KDB 662911 D01 v02r01 – section (E)(3)(b)

Test settings

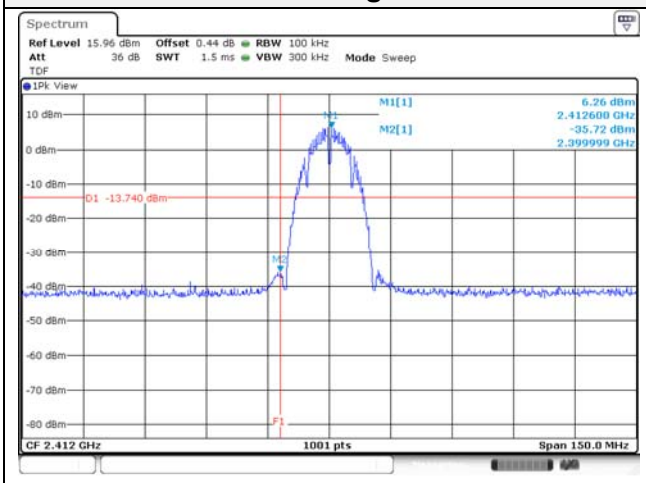
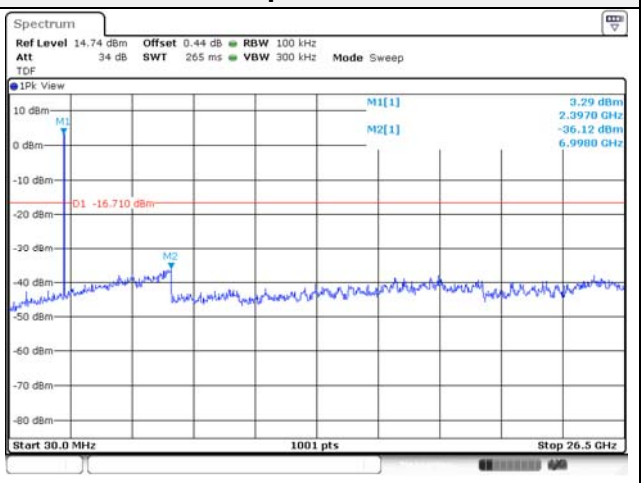
Establish an emission level by using the following procedure:

1) Set the center frequency and span to encompass frequency range to be measured.
2) Set the RBW = 100 ㎑
3) Set the VBW ≥ [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.

Test results

DC 5 V

802.11b	
Conducted band-edge / 2 412 ㎒	**Conducted spurious / 2 412 ㎒**
	
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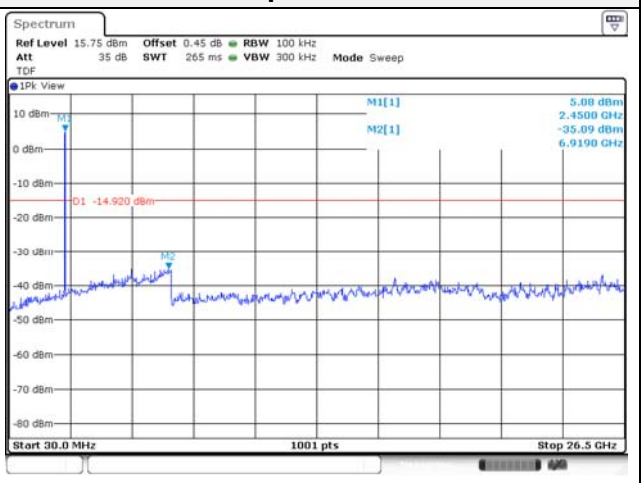
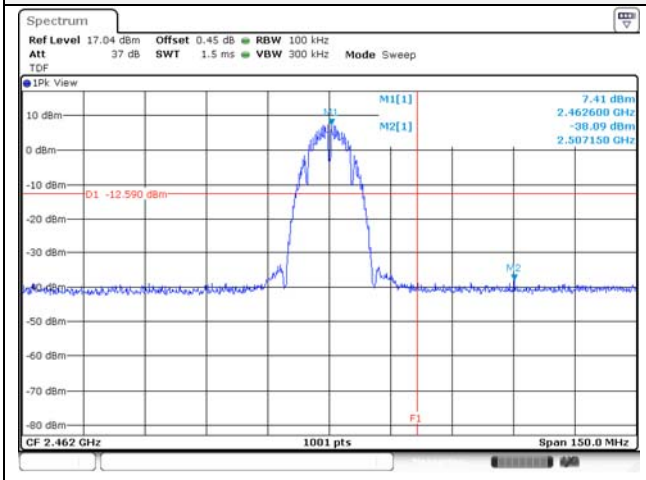
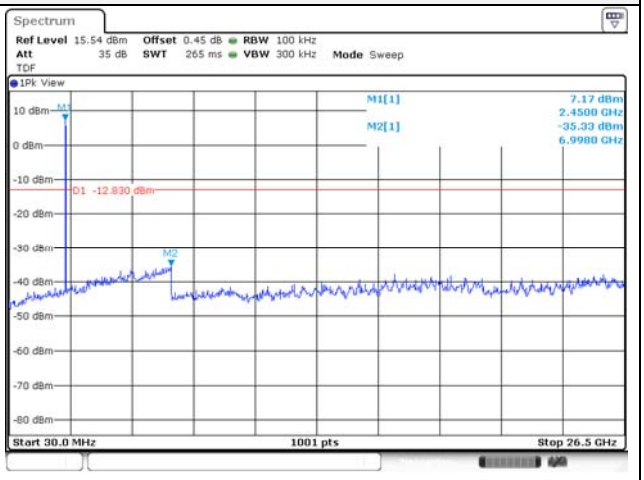
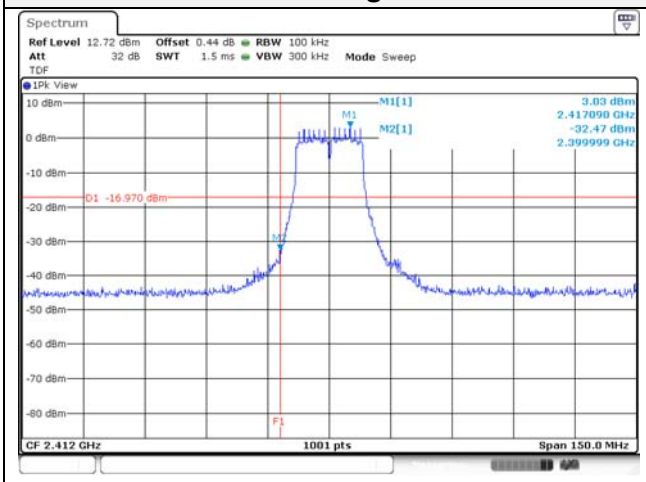
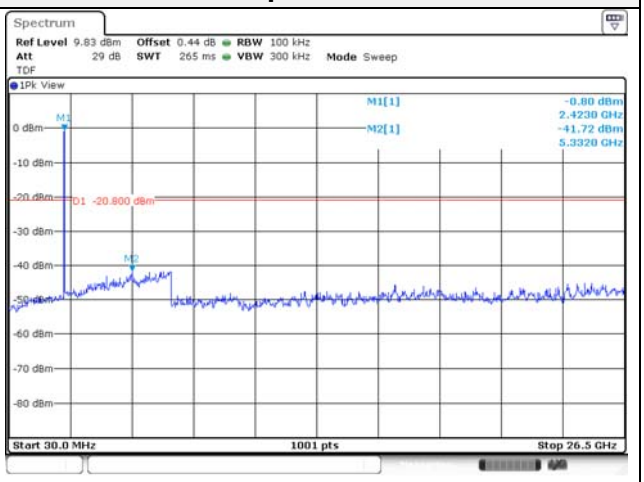
Blank	
Conducted band-edge / 2 462 ㎒	**Conducted spurious / 2 462 ㎒**
	

802.11g

Conducted band-edge / 2 412 ㎒



Conducted spurious / 2 412 ㎒



Conducted band-edge / 2 437 ㎒

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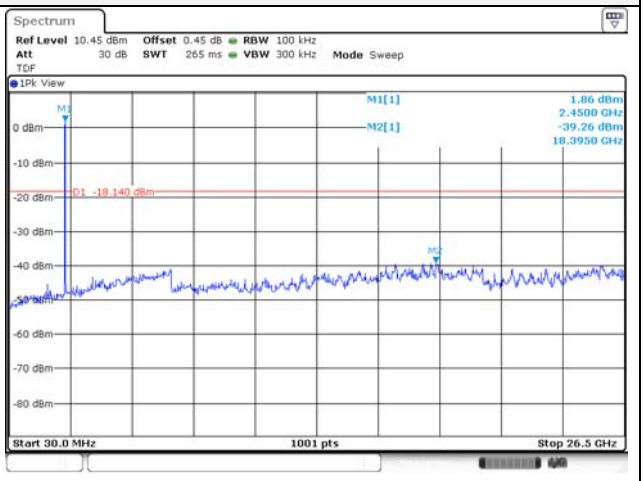
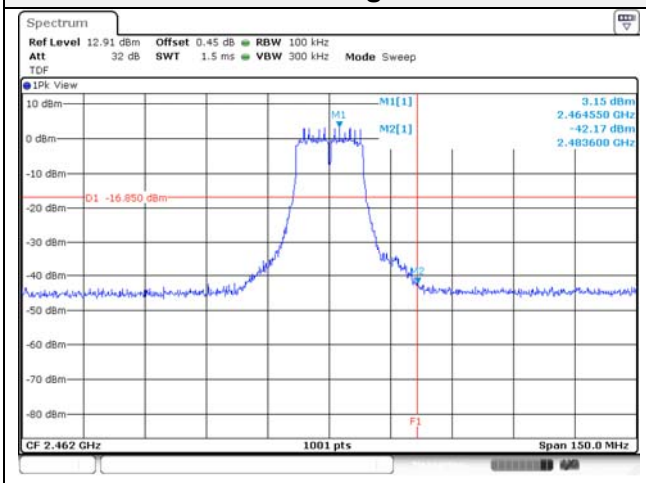
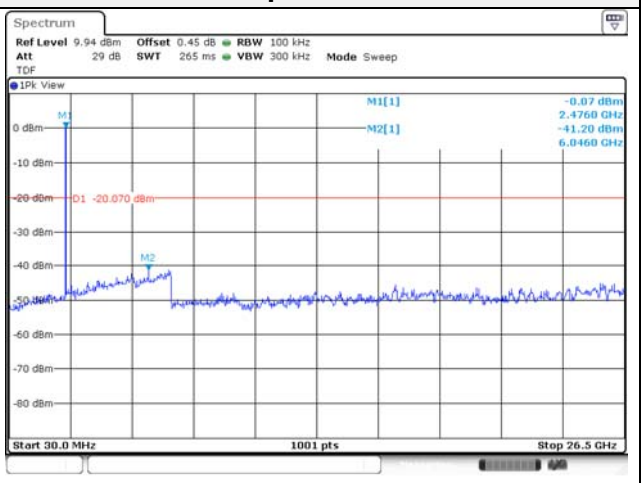


Conducted band-edge / 2 462 ㎒

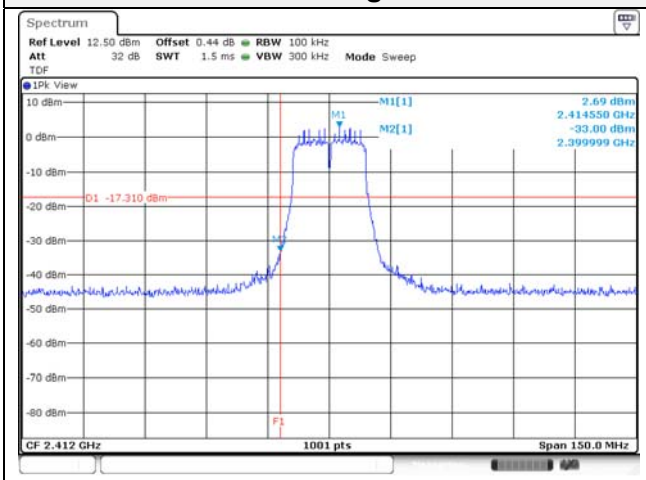


Conducted spurious / 2 462 ㎒

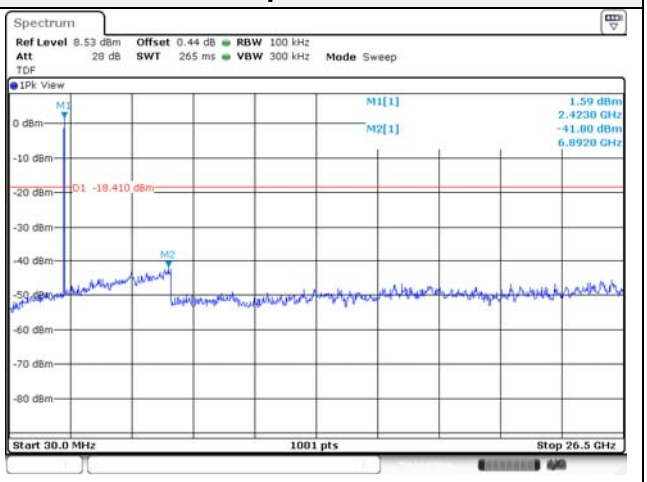


802.11n HT20

Conducted band-edge / 2 412 ㎒



Conducted spurious / 2 412 ㎒



Conducted band-edge / 2 437 ㎒

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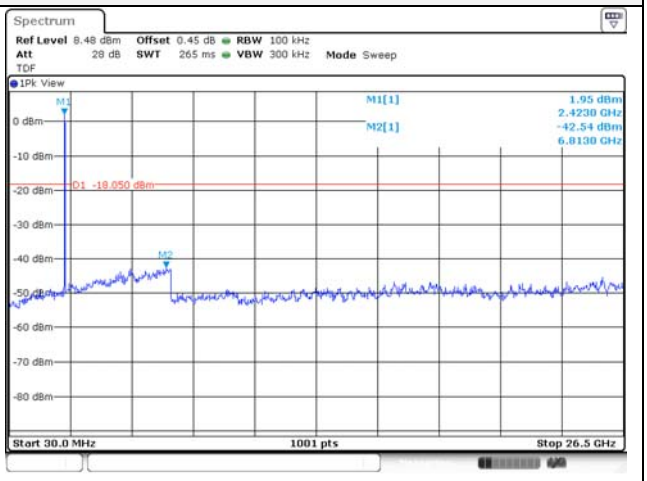
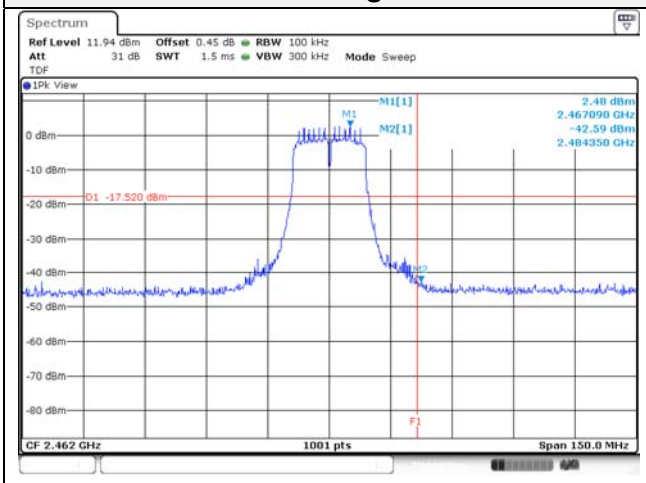
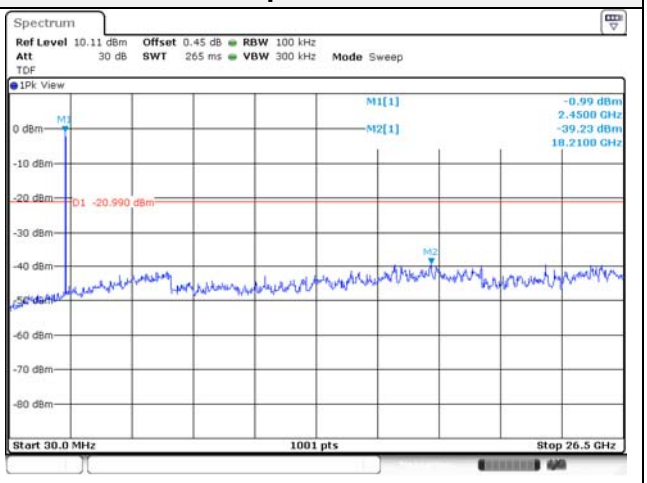


Conducted band-edge / 2 462 ㎒

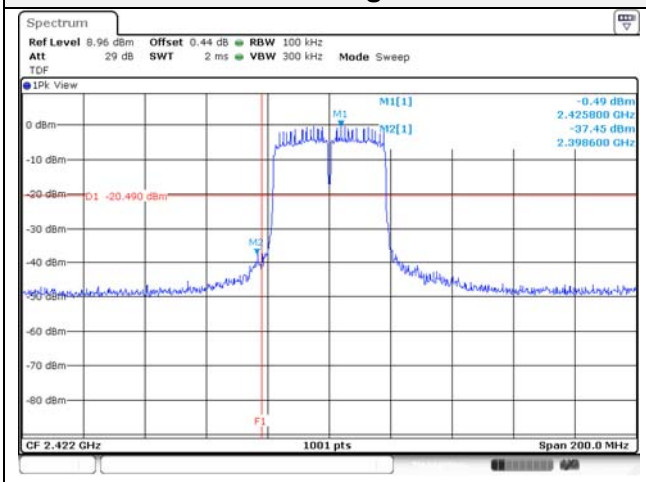


Conducted spurious / 2 462 ㎒



802.11n HT40

Conducted band-edge / 2 422 ㎒



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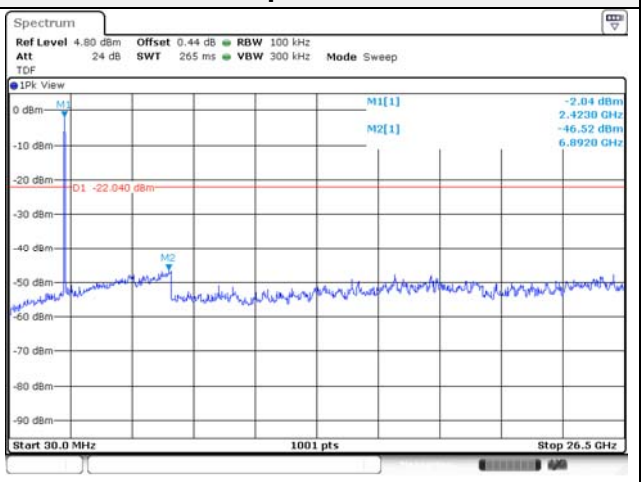

Conducted band-edge / 2 437 ㎒

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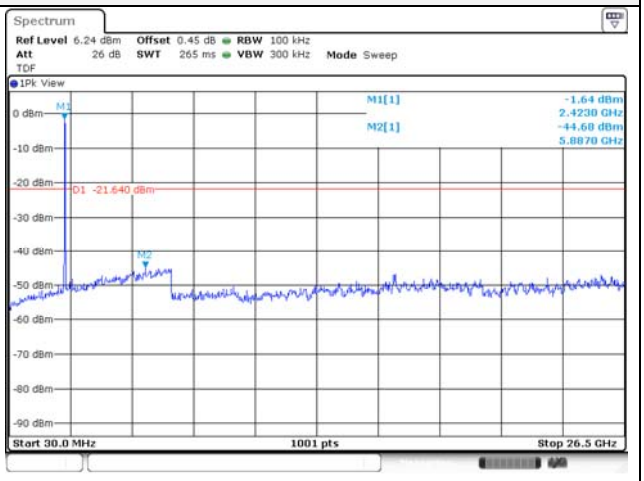
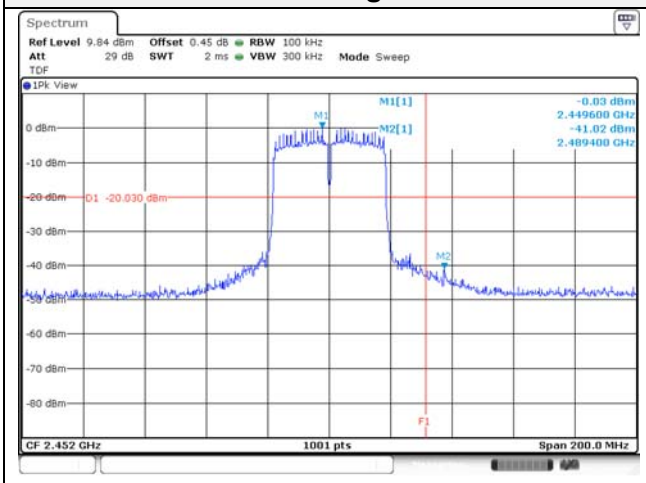
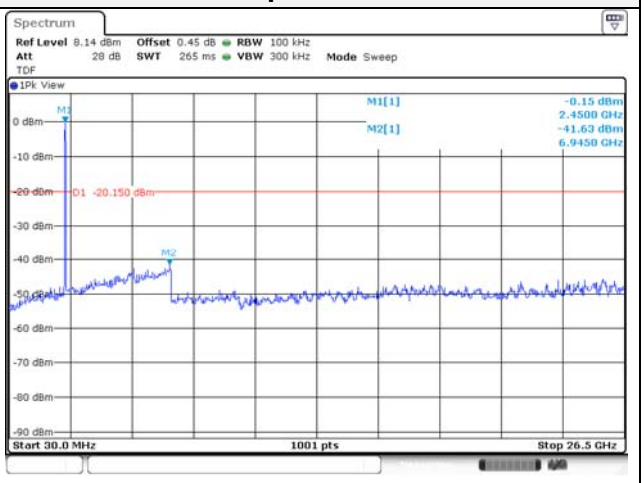


Conducted band-edge / 2 452 ㎒



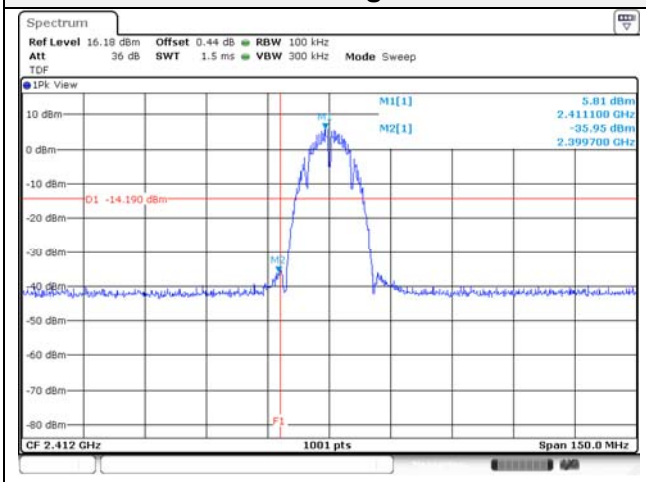
Conducted spurious / 2 452 ㎒



DC 12 V

802.11b

Conducted band-edge / 2 412 ㎒



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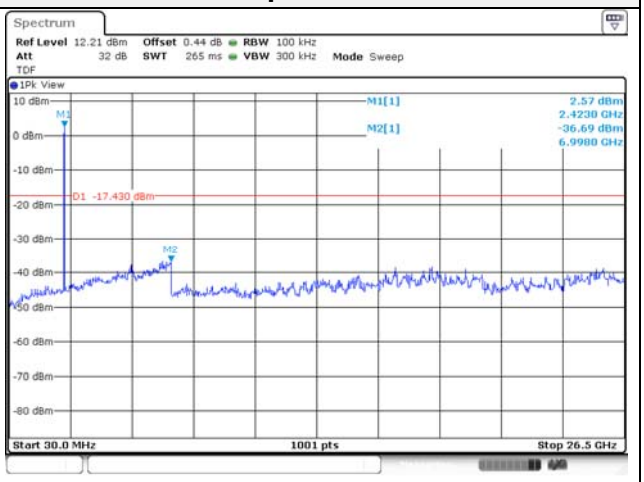

Conducted band-edge / 2 437 ㎒

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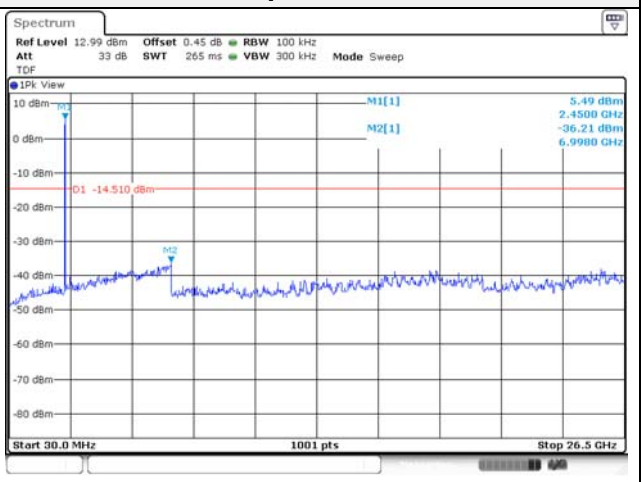
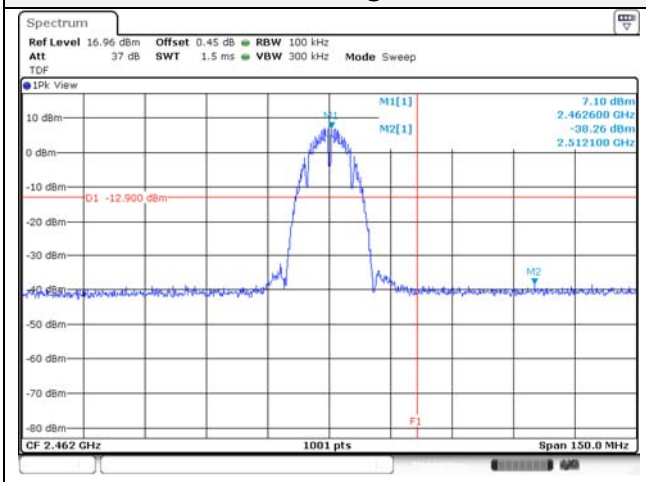
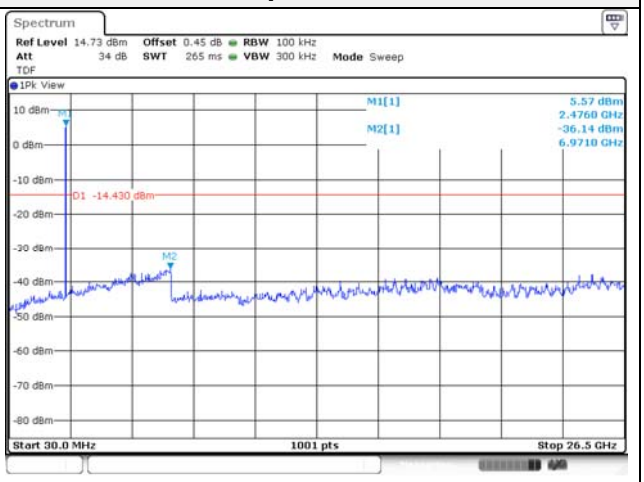


Conducted band-edge / 2 462 ㎒

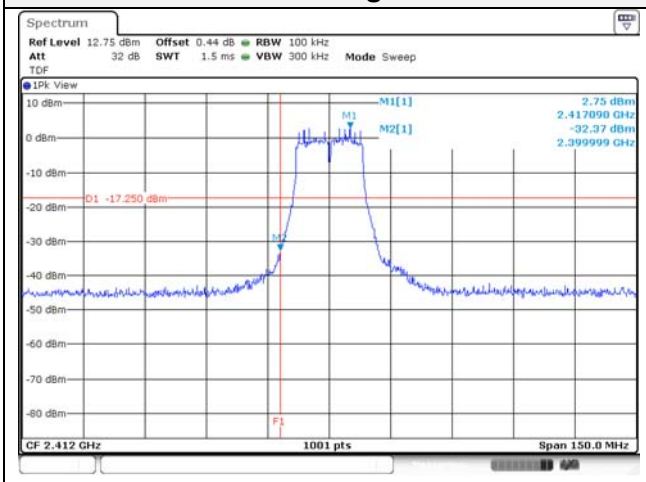


Conducted spurious / 2 462 ㎒



802.11g

Conducted band-edge / 2 412 ㎒



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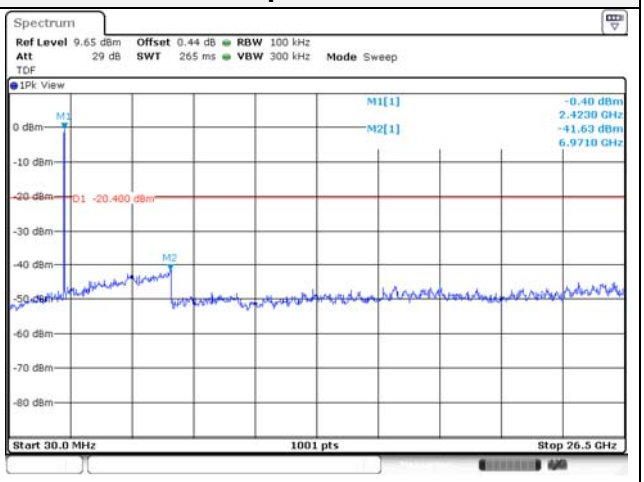

Conducted band-edge / 2 437 ㎒

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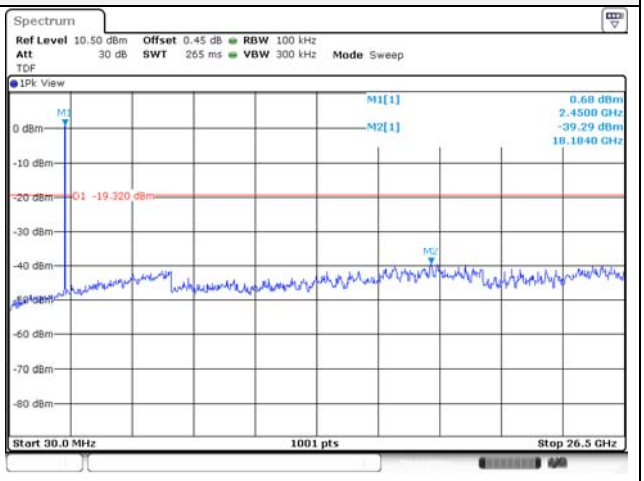
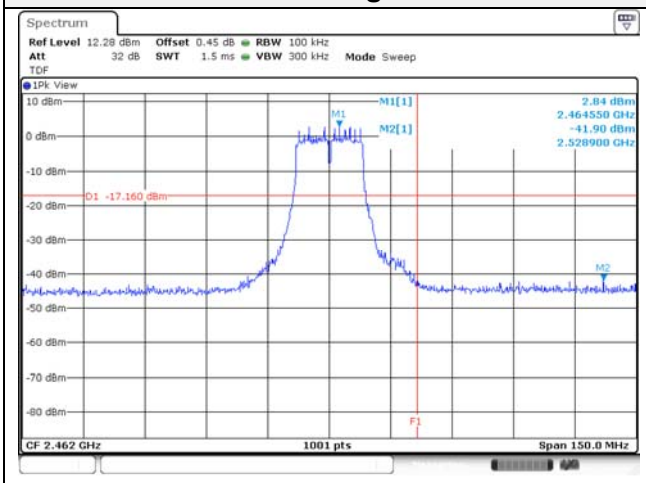
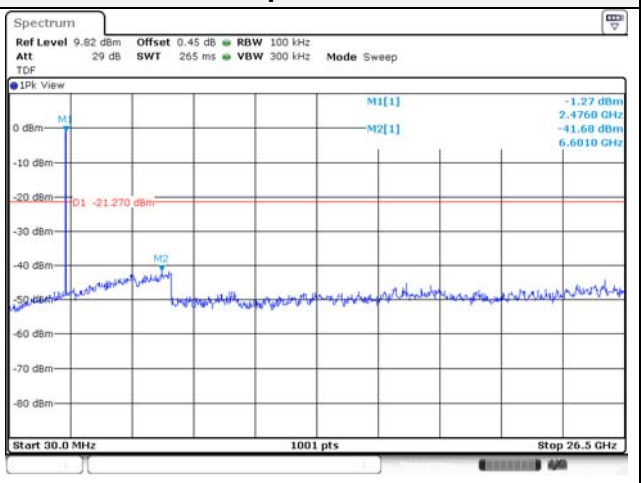


Conducted band-edge / 2 462 ㎒

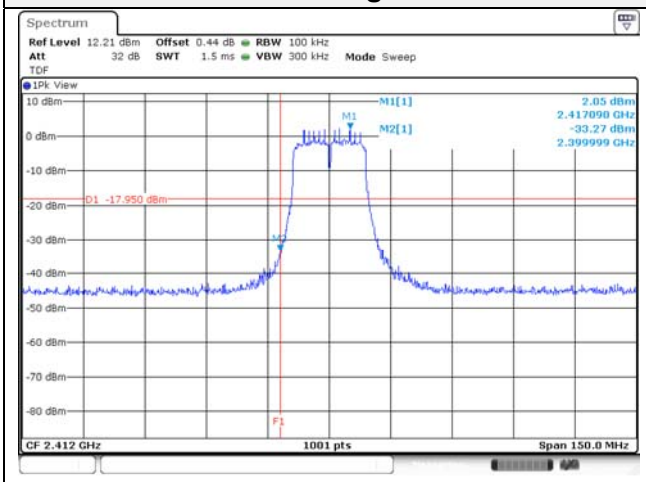


Conducted spurious / 2 462 ㎒

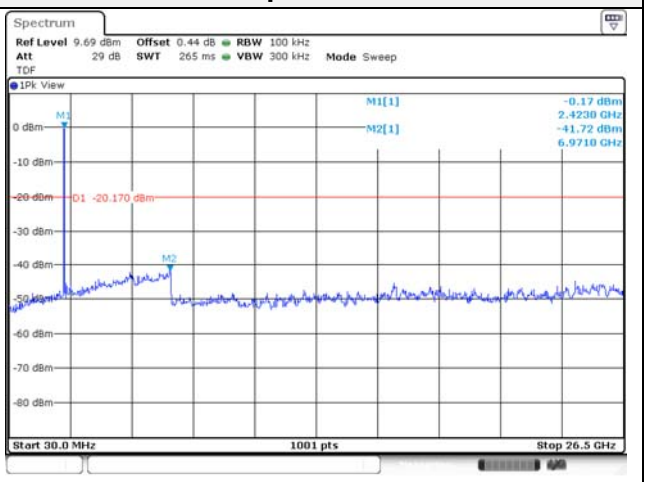


802.11n HT20

Conducted band-edge / 2 412 ㎒



Conducted spurious / 2 412 ㎒



Conducted band-edge / 2 437 ㎒

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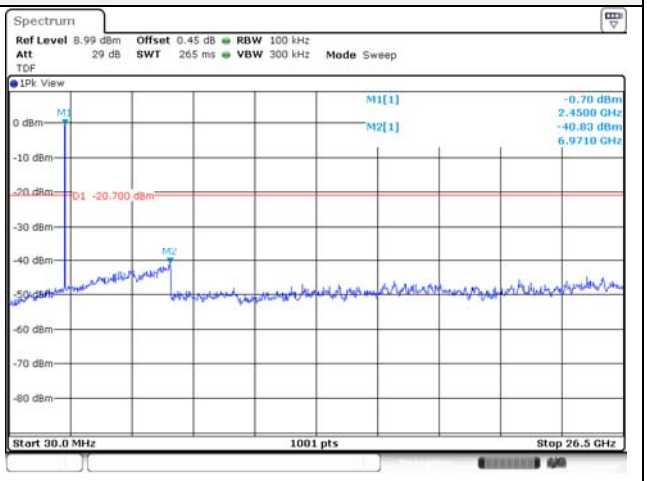
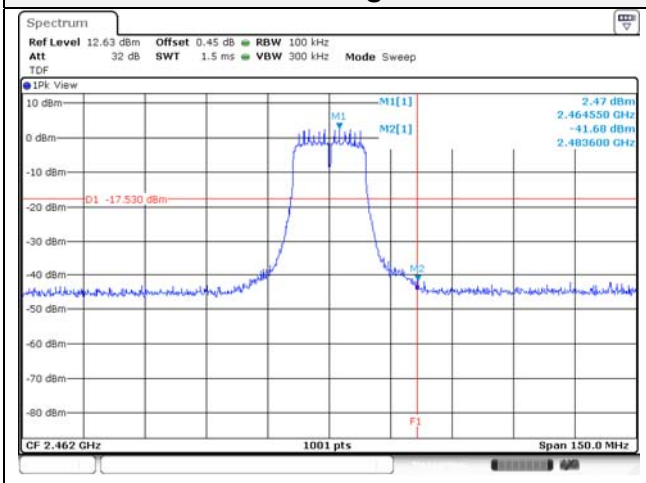
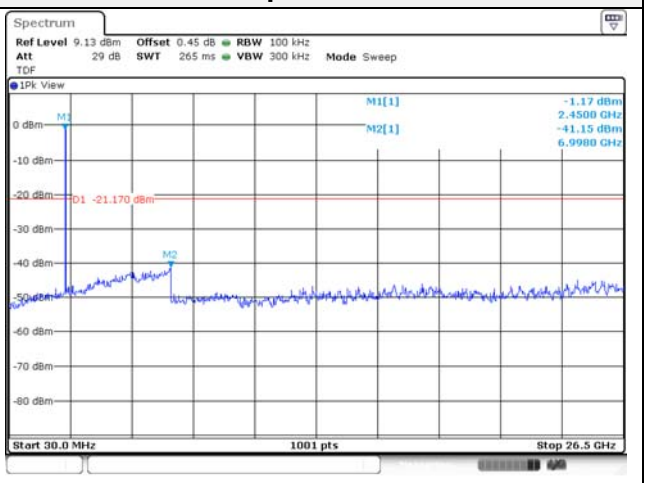
Conducted spurious / 2 437 ㎒



Conducted band-edge / 2 462 ㎒

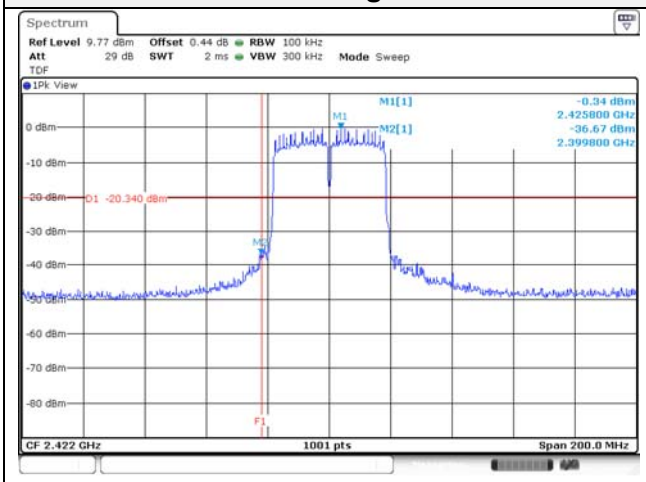


Conducted spurious / 2 462 ㎒

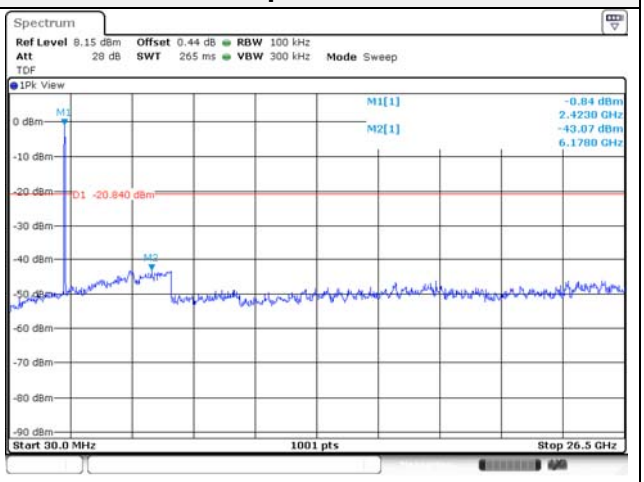


802.11n HT40

Conducted band-edge / 2 422 ㎒



Conducted spurious / 2 422 ㎒



Conducted band-edge / 2 437 ㎒

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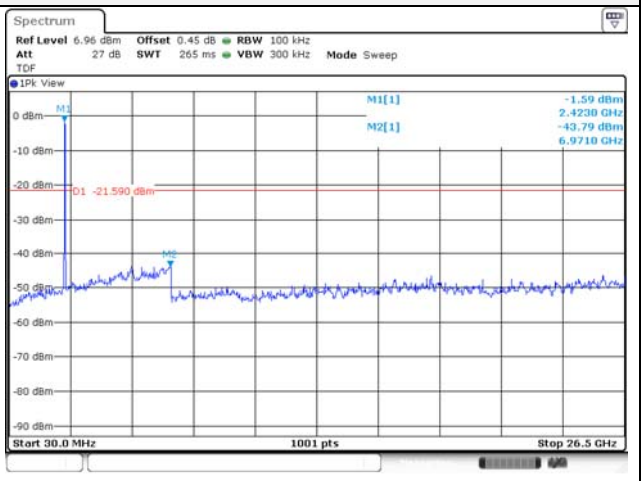
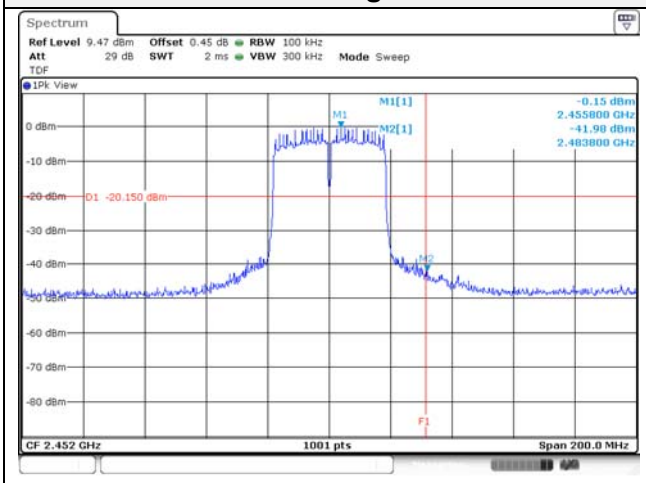
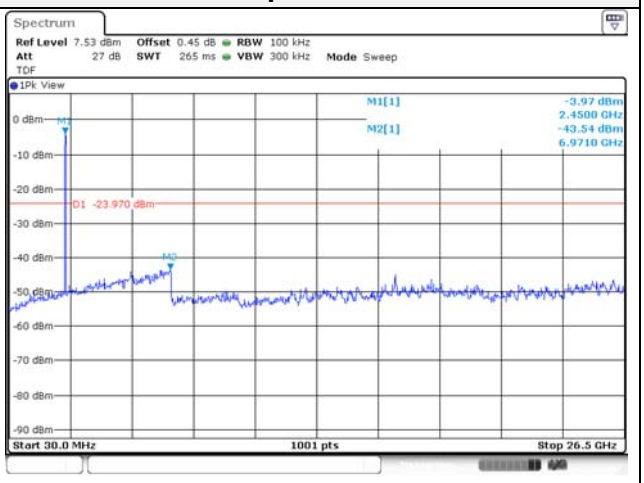
Conducted spurious / 2 437 ㎒



Conducted band-edge / 2 452 ㎒

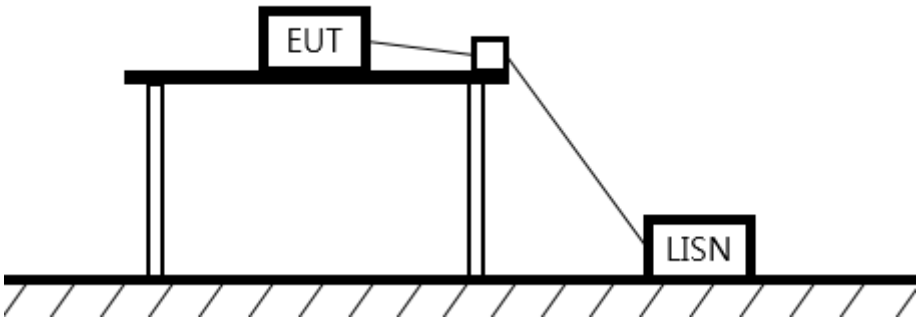


Conducted spurious / 2 452 ㎒



7.6. AC Conducted emission

Test setup



Limit

According to 15.207(a) and RSS-Gen(8.8), for an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies, within the band 150 ㎑ to 30 ㎒, shall not exceed the limits in the following table, as measured using a 50uH/50 ohm line impedance stabilization network (LISN). Compliance with the provision of this paragraph shall on the measurement of the radio frequency voltage between each power line and ground at the power terminl. The lower applies at the boundary between the frequencies ranges.

Frequency of Emission (㎒)	Conducted limit (dBμV/m)	
	Quasi-peak	Average
0.15 – 0.50	66 - 56*	56 - 46*
0.50 – 5.00	56	46
5.00 – 30.0	60	50

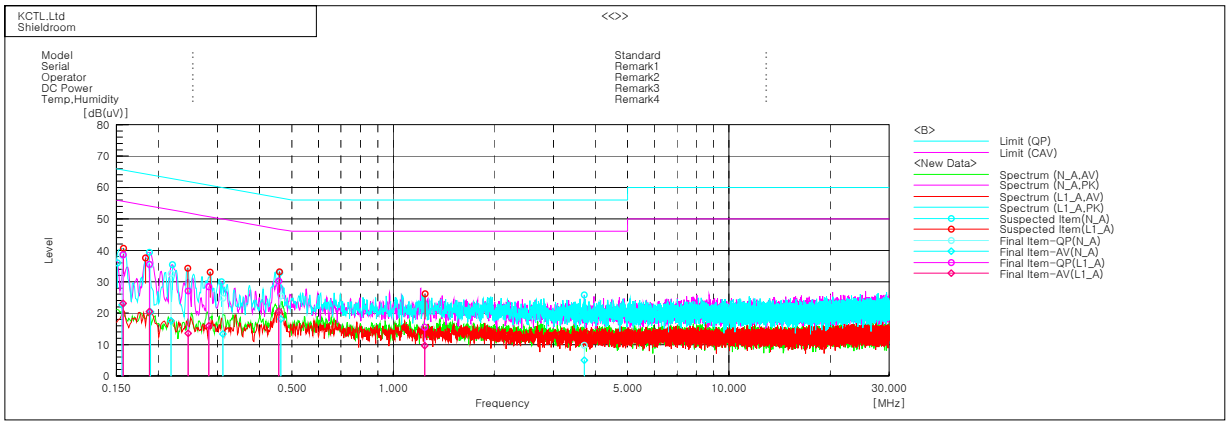
Measurement procedure

1. The EUT was placed on a wooden table of size, 1 m by 1.5 m, raised 80 ㎝ in which is located 40 ㎝ away from the vertical wall and 1.5m away from the side wall of the shielded room.
2. Each current-carrying conductor of the EUT power cord was individually connected through a 50Ω/50μH LISN, which is an input transducer to a spectrum analyzer or an EMI/Field Intensity Meter, to the input power source.
3. Exploratory measurements were made to identify the frequency of the emission that had the highest amplitude relative to the limit by operating the EUT in a range of typical modes of operation, cable position, and with a typical system equipment configuration and arrangement. Based on the exploratory tests of the EUT, the one EUT cable configuration and arrangement and mode of operation that had produced the emission with the highest amplitude relative to the limit was selected for the final measurement.
4. The final test on all current-carrying conductors of all of the power cords to the equipment that comprises the EUT (but not the cords associated with other non-EUT equipment is the system) was then performed over the frequency range of 0.15 ㎒ to 30 ㎒.
5. The measurements were made with the detector set to peak amplitude within a bandwidth of 10 ㎑ or to quasi-peak and average within a bandwidth of 9 ㎑. The EUT was in transmitting mode during the measurements.

Test results

DC 5 V

Worst case: 802.11g mode / 2 437 ㎒



Final Result

--- N_A Phase ---

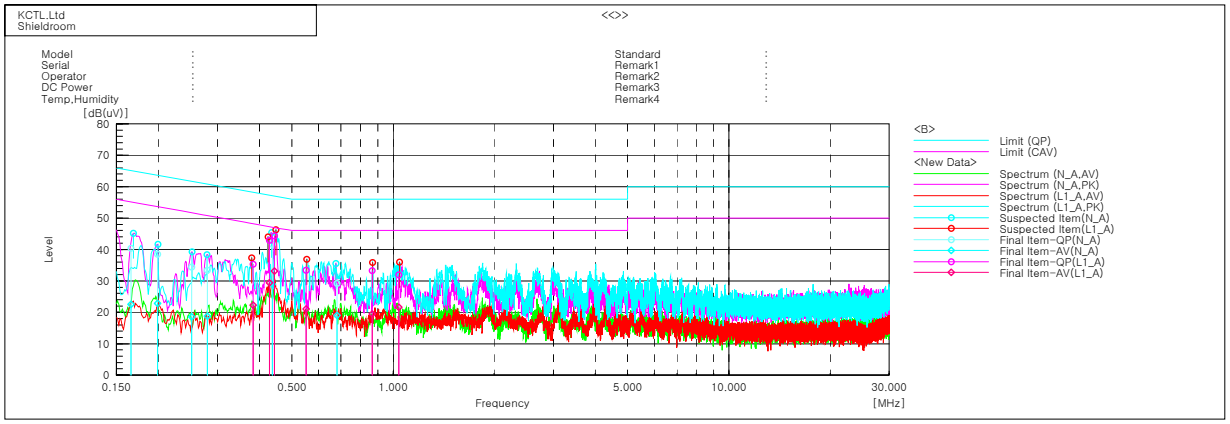
No.	Frequency [MHz]	Reading QP [dB(uV)]	Reading CAV [dB(uV)]	c.f [dB]	Result QP [dB(uV)]	Result CAV [dB(uV)]	Limit QP [dB(uV)]	Limit AV [dB(uV)]	Margin QP [dB]	Margin CAV [dB]
1	0.15587	28.2	12.5	10.1	38.3	22.6	65.7	55.7	27.4	33.1
2	0.18966	25.1	10.1	10.2	35.3	20.3	64.1	54.1	28.8	33.8
3	0.21834	22.6	7.6	10.0	32.6	17.6	62.9	52.9	30.3	35.3
4	0.31171	14.8	3.4	10.0	24.8	13.4	59.9	49.9	35.1	36.5
5	0.463	15.3	7.9	10.2	25.5	18.1	56.6	46.6	31.1	28.5
6	3.71286	-0.4	-5.1	10.1	9.7	5.0	56.0	46.0	46.3	41.0

--- L1_A Phase ---

No.	Frequency [MHz]	Reading QP [dB(uV)]	Reading CAV [dB(uV)]	c.f [dB]	Result QP [dB(uV)]	Result CAV [dB(uV)]	Limit QP [dB(uV)]	Limit AV [dB(uV)]	Margin QP [dB]	Margin CAV [dB]
1	0.15702	28.6	13.0	10.0	38.6	23.0	65.6	55.6	27.0	32.6
2	0.18819	25.5	10.5	10.0	35.5	20.5	64.1	54.1	28.6	33.6
3	0.24537	17.4	3.9	9.7	27.1	13.6	61.9	51.9	34.8	38.3
4	0.28234	18.6	6.2	9.8	28.4	16.0	60.7	50.7	32.3	34.7
5	0.45663	20.2	10.5	10.0	30.2	20.5	56.8	46.8	26.6	26.3
6	1.24355	5.8	-0.2	9.8	15.6	9.6	56.0	46.0	40.4	36.4

DC 12 V

Worst case: 802.11g mode / 2 437 ㎒



Final Result

--- N_A Phase ---

No.	Frequency [MHz]	Reading QP [dB(uV)]	Reading CAV [dB(uV)]	c.f [dB]	Result QP [dB(uV)]	Result CAV [dB(uV)]	Limit QP [dB(uV)]	Limit AV [dB(uV)]	Margin QP [dB]	Margin CAV [dB]
1	0.1658	30.2	12.3	10.2	40.4	22.5	65.2	55.2	24.8	32.7
2	0.19915	28.3	12.8	10.1	38.4	22.9	63.6	53.6	25.2	30.7
3	0.25156	24.5	8.6	9.9	34.4	18.5	61.7	51.7	27.3	33.2
4	0.27952	23.4	8.8	10.0	33.4	18.8	60.8	50.8	27.4	32.0
5	0.43716	31.5	18.7	10.2	41.7	28.9	57.1	47.1	15.4	18.2
6	0.68057	19.1	8.9	10.1	29.2	19.0	56.0	46.0	26.8	27.0

--- L1_A Phase ---

No.	Frequency [MHz]	Reading QP [dB(uV)]	Reading CAV [dB(uV)]	c.f [dB]	Result QP [dB(uV)]	Result CAV [dB(uV)]	Limit QP [dB(uV)]	Limit AV [dB(uV)]	Margin QP [dB]	Margin CAV [dB]
1	0.38353	25.4	12.4	9.9	35.3	22.3	58.2	48.2	22.9	25.9
2	0.42895	32.8	19.4	10.0	42.8	29.4	57.3	47.3	14.5	17.9
3	0.44339	34.4	23.1	10.0	44.4	33.1	57.0	47.0	12.6	13.9
4	0.55049	23.4	11.1	10.0	33.4	21.1	56.0	46.0	22.6	24.9
5	0.86737	23.3	9.5	9.9	33.2	19.4	56.0	46.0	22.8	26.6
6	1.04088	22.0	11.7	9.9	31.9	21.6	56.0	46.0	24.1	24.4

8. Measurement equipment

Equipment Name	Manufacturer	Model No.	Serial No.	Next Cal. Date
Spectrum Analyzer	R&S	FSV30	100810	21.07.29
DC Power Supply	AGILENT	E3632A	KR94907664	21.05.11
Power Sensor	R&S	NRP-Z81	1137.9009.02-106223-bB	21.05.25
Attenuator	R&S	DNF Dämpfungsglied 10 dB in N-50 Ohm	31212	21.05.11
Attenuator	API Inmet	40AH2W-10	17	21.05.12
Spectrum Analyzer	R&S	FSV40	100989	21.12.23
EMI TEST RECEIVER	R&S	ESCI7	100732	21.03.04
Bi-Log Antenna	SCHWARZBECK	VULB9168	583	22.04.23
Amplifier	SONOMA INSTRUMENT	310N	284608	21.08.20
COAXIAL FIXED ATTENUATOR	Agilent	8491B-003	2708A18758	21.04.23
Horn antenna	ETS.lindgren	3117	155787	21.10.28
Horn antenna	ETS.lindgren	3116	86632	21.02.17
Attenuator	API Inmet	40AH2W-10	12	21.05.12
Broadband PreAmplifier	SCHWARZBECK	BBV9718	216	21.07.28
AMPLIFIER	L-3 Narda-MITEQ	AMF-7D-01001800-22-10P	2031196	21.02.12
AMPLIFIER	L-3 Narda-MITEQ	JS44-18004000-33-8P	2000996	21.01.22
LOOP Antenna	R&S	HFH2-Z2	100355	22.08.21
Antenna Mast	Innco Systems	MA4640-XP-ET	-	-
Turn Table	Innco Systems	DT2000	79	-
Antenna Mast	Innco Systems	MA4000-EP	303	-
Turn Table	Innco Systems	DT2000	79	-
Highpass Filter	WT	WT-A1698-HS	WT160411001	21.05.11
TWO-LINE V – NETWORK	R&S	ENV216	101358	21.09.29
EMI TEST RECEIVER	R&S	ESCI	100001	21.08.20
Vector Signal	R&S	SMBV100A	257566	21.07.13
Generator				
Signal Generator	R&S	SMB100A	176206	21.01.21
Cable Assembly	RadiAll	2301761768000PJ	1724.659	-
Cable Assembly	gigalane	RG-400	-	-
Cable Assembly	HUER+SUHNER	SUCOFLEX 104	MY4342/4	-

End of test report