G4B(www.g4b.go.kr)진위확인코드 : AwoFN/ULb1s=

시점확인 진본 2023-11-30 16:10:32 KST 정부시점확인센터

Report No. : KES-RF-23T0153

Mode:	802.11b(Worst Case)_ DC 24V
Distance of measurement:	3 meter
Channel:	01

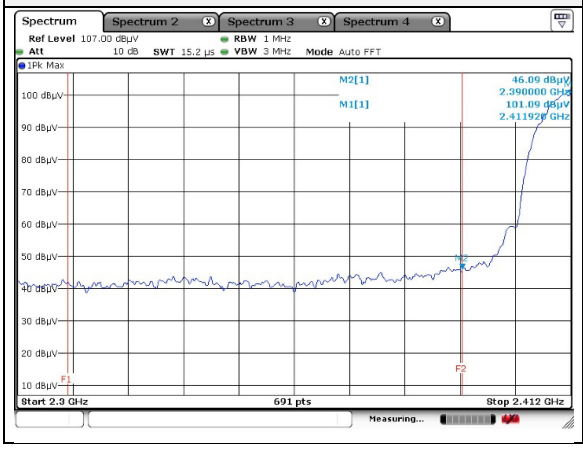
- **Spurious**

Frequency (㎒)	Level (dBμV)	Detect mode	Ant. Pol. (H/V)	CF (dB)	DCF (dB)	Field strength (dBμV/m)	Limit (dBμV/m)	Margin (dB)
1 056.40	45.80	Peak	H	-9.21	-	36.59	74.00	37.41
1 328.50	46.42	Peak	V	-7.34	-	39.08	74.00	34.92

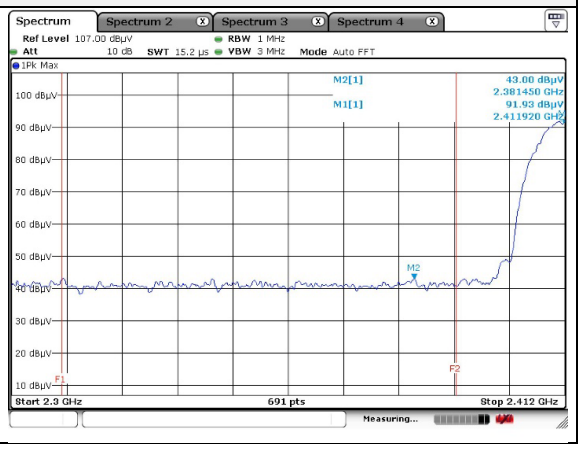
- **Band edge**

Frequency (㎒)	Level (dBμV)	Detect mode	Ant. Pol. (H/V)	CF (dB)	DCF (dB)	Field strength (dBμV/m)	Limit (dBμV/m)	Margin (dB)
2 381.45	43.00	Peak	V	-0.74	-	42.26	74.00	31.74
2 390.00	46.09	Peak	H	-0.73	-	45.36	74.00	28.64

Restricted band // Horizontal // Peak



Restricted band // Vertical // Peak



The authenticity of the test report, contact kes@kes.co.kr

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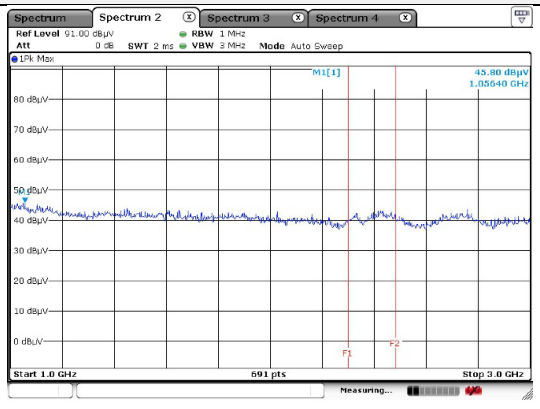
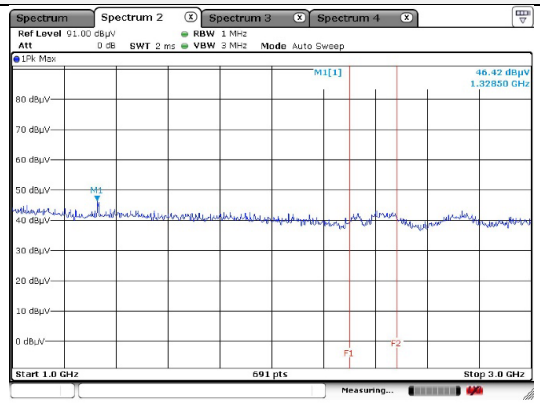
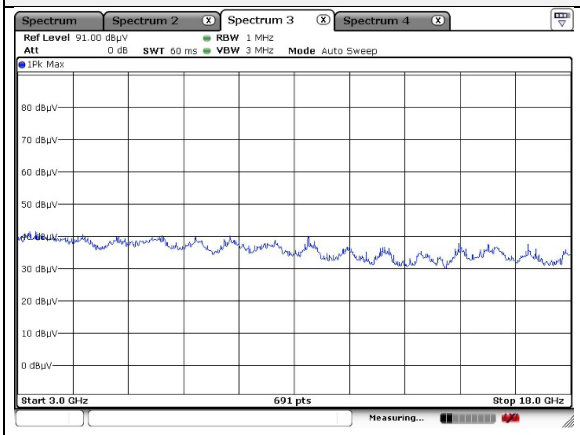
Horizontal // Peak for 1 ㎓ to 3 ㎓



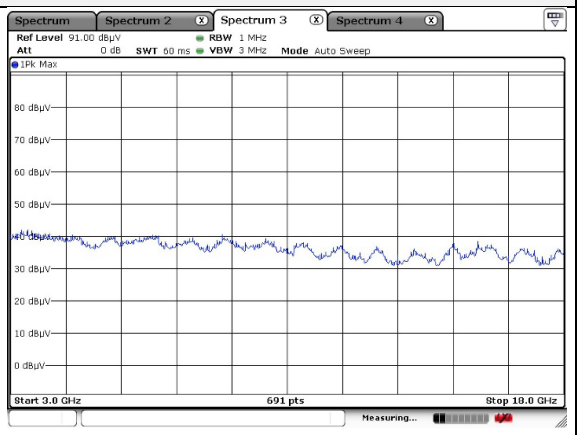
Vertical // Peak for 1 ㎓ to 3 ㎓



Horizontal // Peak for 3 ㎓ to 18 ㎓



Vertical // Peak for 3 ㎓ to 18 ㎓



Note.
1. No spurious emission were detected above 3 ㎓.
2. Average test would be performed if the peak result were greater than the average limit.

The authenticity of the test report, contact kes@kes.co.kr

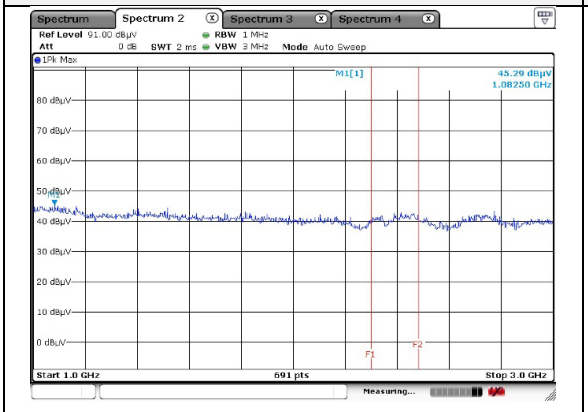
G4B(www.g4b.go.kr)진위확인코드 : AwoFN/ULb1s=

Mode:	802.11b(Worst Case)_ DC 24V
Distance of measurement:	3 meter
Channel:	06

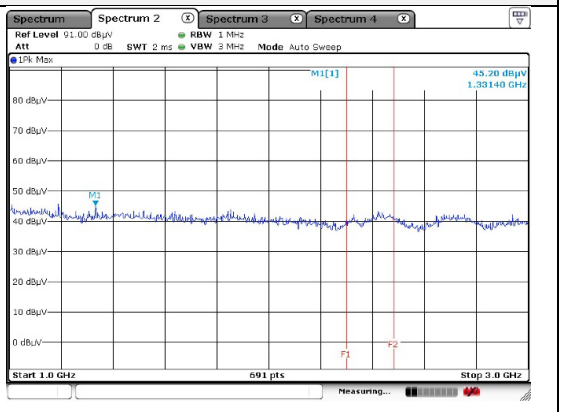
- **Spurious**

Frequency (㎒)	Level (dB㎶)	Detect mode	Ant. Pol. (H/V)	CF (dB)	DCF (dB)	Field strength (dB㎶/m)	Limit (dB㎶/m)	Margin (dB)
1 082.50	45.29	Peak	H	-9.03	-	36.26	74.00	37.74
1 331.40	45.20	Peak	V	-7.32	-	37.88	74.00	36.12

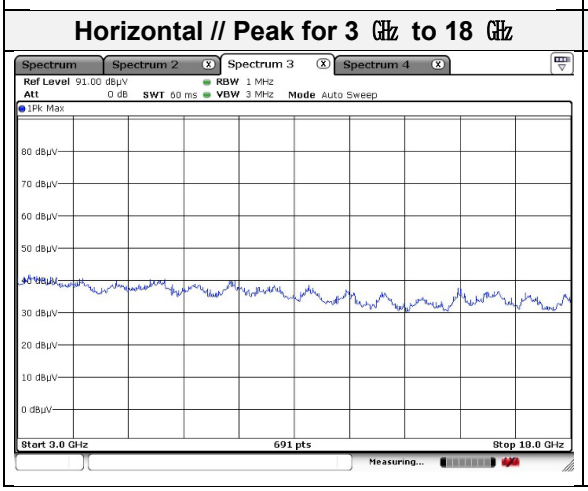
Horizontal // Peak for 1 ㎓ to 3 ㎓



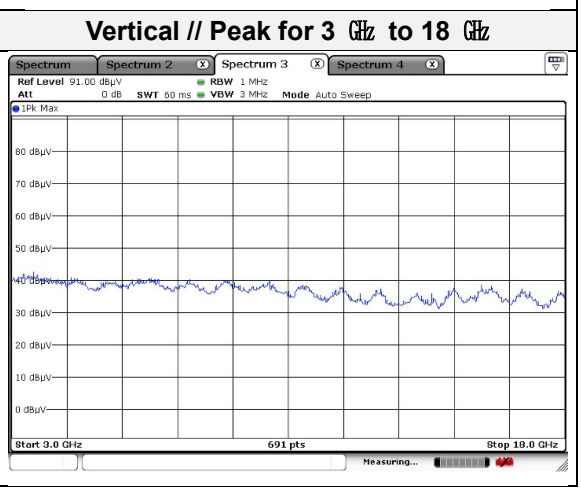
Vertical // Peak for 1 ㎓ to 3 ㎓



Horizontal // Peak for 3 ㎓ to 18 ㎓



Vertical // Peak for 3 ㎓ to 18 ㎓



Note.
1. No spurious emission were detected above 3 ㎓.
2. Average test would be performed if the peak result were greater than the average limit.

G4B(www.g4b.go.kr)진위확인코드 : AwoFN/ULb1s=

Mode: 802.11b(Worst Case)_ DC 24V

Distance of measurement: 3 meter

Channel: 11

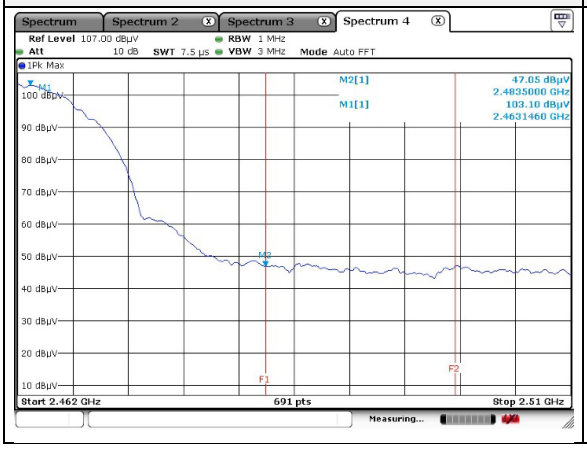
- **Spurious**

Frequency (㎒)	Level (dB㎶)	Detect mode	Ant. Pol. (H/V)	CF (dB)	DCF (dB)	Field strength (dB㎶/m)	Limit (dB㎶/m)	Margin (dB)
1 001.40	47.39	Peak	H	-9.59	-	37.80	74.00	36.20
1 328.50	46.76	Peak	V	-7.34	-	39.42	74.00	34.58

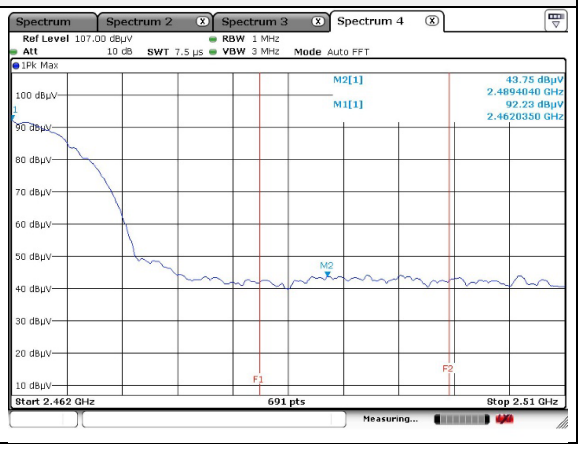
- **Band edge**

Frequency (㎒)	Level (dB㎶)	Detect mode	Ant. Pol. (H/V)	CF (dB)	DCF (dB)	Field strength (dB㎶/m)	Limit (dB㎶/m)	Margin (dB)
2 483.50	47.05	Peak	H	-0.57	-	46.48	74.00	27.52
2 489.40	43.75	Peak	V	-0.56	-	43.19	74.00	30.81

Restricted band // Horizontal // Peak



Restricted band // Vertical // Peak



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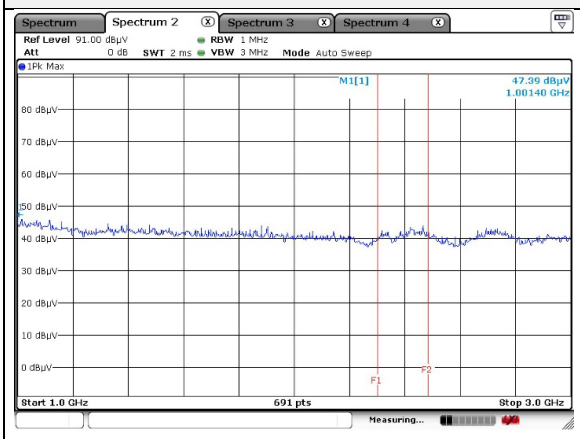
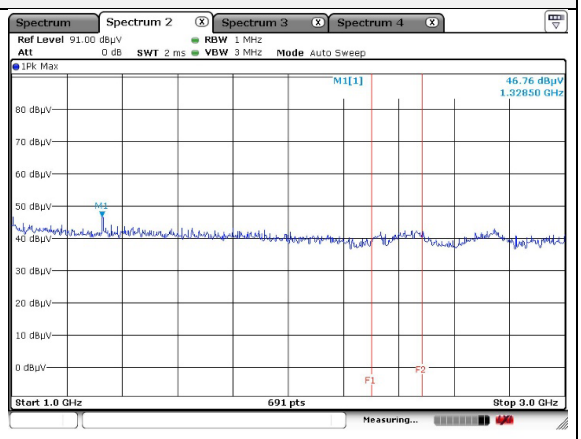
G4B(www.g4b.go.kr)진위확인코드 : AwoFN/ULb1s=

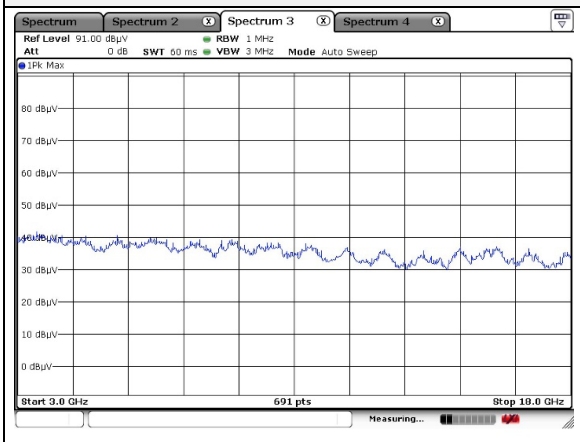
Horizontal // Peak for 1 ㎓ to 3 ㎓



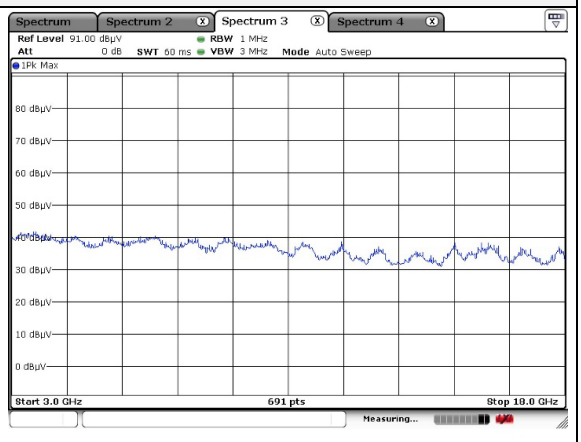
Vertical // Peak for 1 ㎓ to 3 ㎓



Horizontal // Peak for 3 ㎓ to 18 ㎓



Vertical // Peak for 3 ㎓ to 18 ㎓

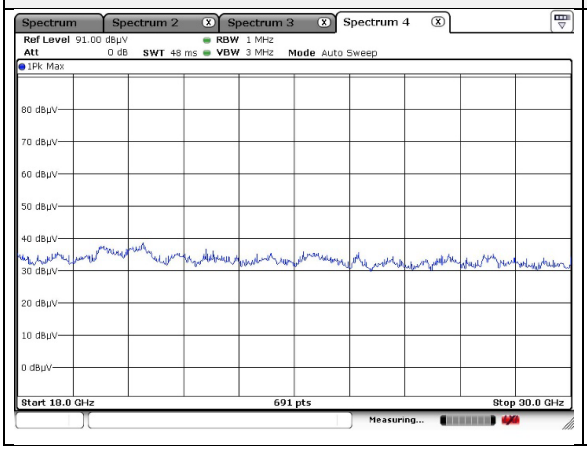
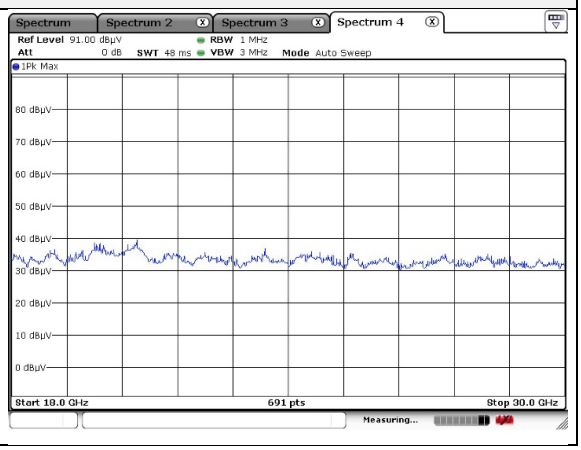


Note.
1. No spurious emission were detected above 3 ㎓.
2. Average test would be performed if the peak result were greater than the average limit.

G4B(www.g4b.go.kr)진위확인코드 : AwoFN/ULb1s=

Test results (18 ㎓ to 30 ㎓)

Mode:	802.11b(Worst Case)_ DC 24V
Distance of measurement:	3 meter
Channel:	06 (Worst case)

Horizontal Peak	Vertical Peak
	

Note.
No spurious emission were detected above 18 ㎓.

G4B(www.g4b.go.kr)진위확인코드 : AwoFN/ULb1s=

3.3. Antenna Requirement

According to 15.207(a), An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this Section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. This requirement does not apply to carrier current devices or to devices operated under the provisions of Sections 15.211, 15.213, 15.217, 15.219, or 15.221. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with Section 15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this Part are not exceeded.

G4B(www.g4b.go.kr)진위확인코드 : AwoFN/ULb1s=

Appendix A. Measurement equipment

Equipment	Manufacturer	Model	Serial No.	Calibration interval	Calibration due.
SPECTRUM ANALYZER	R&S	FSV3044	101272	1 year	2024.03.16
SPECTRUM ANALYZER	R&S	FSV40	101725	1 year	2024.06.15
SIGNAL GENERATOR	KEYSIGHT	N5182B	MY59100115	1 year	2024.04.19
SIGNAL GENERATOR	Anritsu	68369B	002118	1 year	2024.05.12
Power Meter	Anritsu	ML2495A	2010001	1 year	2024.04.19
Pulse Power Sensor	Anritsu	MA2411B	1911111	1 year	2024.04.18
ATTENUATOR	Mini-Circuits	BW-S10-2W263+	1	1 year	2024.01.13
EMI TEST RECEIVER	R&S	ESU26	100517	1 year	2024.07.31
ACTIVE LOOP ANTENNA	Schwarzbeck	HFH2-Z2E	100975	2 years	2025.02.15
BILOG ANTENNA	Schwarzbeck	VULB 9163	714	2 years	2024.04.19
DC POWER SUPPLY	SORENSEN	DCS40-75E	1408A02745	1 year	2024.01.12
Attenuator	HUBER+SHHNER	6806.17.A	NONE	1 year	2024.03.21
Horn Antenna	A.H.	SAS-571	414	1 year	2024.01.16
Horn Antenna	SCHWARZBECK	BBHA9170	BBHA 9170550	1 year	2024.01.16
Amplifier	SONOMA INSTRUMENT	310N	186549	1 year	2024.03.21
PREAMPLIFIER	HP	8449B	3008A00538	1 year	2024.05.31
BROADBAND AMPLIFIER	SCHWARZBECK	BBV9721	PS9721-003	1 year	2024.01.16

* Statement of Traceability: KES Co., Ltd. attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Peripheral devices

Device	Manufacturer	Model No.	Serial No.
Notebook computer	LG Electronics Inc.,	LGS53	306QCZP560949

The end of test report