TEST REPORT

Eurofins KCTL Co.,Ltd. 65, Sinwon-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16677, Korea TEL: 82-70-4904-0113 FAX: 82-505-299-8311 www.kctl.co.kr	Report No.: KR26-SRF0115 Page (1) of (55)	eurofins | KCTL

1. Client

- Name : Suprema Inc.
- Address : 17F-5, Parkview officetower,, 248, Jeongjail-ro, Bundang-gu, Seongnam-si, Gyeonggi-do, Republic of Korea
- Date of Receipt : 2026-03-18

2. Use of Report : Certification

3. Name of Product / Model : BioStation 3 Max / BS3M-OAPB

4. Manufacturer / Country of Origin : Suprema Inc. / Korea

5. FCC ID : TKWBS3M-OAPB

6. IC Certificate No. : 23080-BS3MOAPB

7. Date of Test : 2026-04-01 to 2026-05-20

8. Location of Test : ■ Permanent Testing Lab ☐ On Site Testing
(Address:65, Sinwon-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16677, Korea)

9. Test method used : FCC Part 15 Subpart C, 15.225
RSS-210 Issue 11 June 25 2024
RSS-Gen Issue 5 February 2021

10. Test Result : Refer to the test result in the test report

	Tested by	Technical Manager
Affirmation	Name : Jooseong Lee (Signature)	Name : Euijung Kim (Signature)

2026-05-21

Eurofins KCTL Co.,Ltd.

REPORT REVISION HISTORY

Date	Revision	Page No
2026-05-21	Originally issued	-

General remarks for test reports

Statement concerning the uncertainty of the measurement systems used for the tests

(may be required by the product standard or client)

☐ **Internal procedure used for type testing through which traceability of the measuring uncertainty has been established:**

Procedure number, issue date and title:

Calculations leading to the reported values are on file with the testing laboratory that conducted the testing.

☒ **Statement not required by the standard or client used for type testing**

CONTENTS

1. General information

Client	:	Suprema Inc.
Address	:	17F-5, Parkview officetower,, 248, Jeongjail-ro, Bundang-gu, Seongnam-si, Gyeonggi-do, Korea
Manufacturer	:	Suprema Inc.
Address	:	17F-5, Parkview officetower,, 248, Jeongjail-ro, Bundang-gu, Seongnam-si, Gyeonggi-do, Republic of Korea
Laboratory	:	Eurofins KCTL Co.,Ltd.
Address	:	65, Sinwon-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16677, Korea
Accreditations	:	FCC Site Designation No: KR0040, FCC Site Registration No: 687132
		VCCI Registration No. : R-20080, G-20078, C-20059, T-20056
		CAB Identifier: KR0040
		ISED Number: 8035A
		KOLAS No.: KT231

2. Device information

Equipment under test	:	BioStation 3 Max
Model	:	BS3M-OAPB
Derivative Model	:	BS3M-ODB
Frequency range	:	13.56 ㎒ (NFC)
Modulation technique	:	ASK
Number of channels	:	1 ch
Power source	:	DC 12 ~ 24 V, PoE+, PoE++ 50 ~ 57 Vdc
Antenna specification	:	PCB loop Antenna (NFC)
Software version	:	1.0.0
Hardware version	:	1.0.0
Test device serial No.	:	547849450
Operation temperature	:	-20 ℃ ~ 50 ℃

2.1. Information about derivative model

The difference between basic model and derivative models is:

1) Several non-RF related components are removed from the basic model (BS3M-OAPB).
   All other internal components are the same as in the basic model.
   The removed components do not affect the wireless part of the product.
2) Radio Hardware such as circuits and electrical components and Software are the same.

Model	Basic model: BS3M-OAPB	Derivative Model: BS3M-ODB
Main board	PCB: BS3_MAIN_PS	PCB: BS3_MAIN_PS
Component	U2, U3, R13, R15, D2, D4, D5, EC3, TVS2, TVS3, F2, F3, F4, F5, F6, F7, C13, C14, C15, C16, C17, C19	N/A

2.2. Frequency/channel operations

This device contains the following capabilities:
NFC

Frequency (㎒)
13.56

Table 2.2.1. NFC

2.3. RF power setting in TEST SW

Operation mode	Test mode	Test Program	Power Setting
NFC	DC 24 V	EUT	Default
	PoE		Default

3. Antenna requirement

Requirement of FCC part section 15.203:

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.

Requirement of RSS-Gen Section 6.8:

The applicant for equipment certification shall provide a list of all antenna types that may be used with the transmitter, where applicable (i.e. for transmitters with detachable antenna), indicating the maximum permissible antenna gain (in dBi) and the required impedance for each antenna. The test report shall demonstrate the compliance of the transmitter with the limit for maximum equivalent isotropically radiated power (e.i.r.p.) specified in the applicable RSS, when the transmitter is equipped with any antenna type, selected from this list.

For expediting the testing, measurements may be performed using only the antenna with highest gain of each combination of transmitter and antenna type, with the transmitter output power set at the maximum level. However, the transmitter shall comply with the applicable requirements under all operational conditions and when in combination with any type of antenna from the list provided in the test report (and in the notice to be included in the user manual, provided below).

When measurements at the antenna port are used to determine the RF output power, the effective gain of the device's antenna shall be stated, based on a measurement or on data from the antenna's manufacturer.

The test report shall state the RF power, output power setting and spurious emission measurements with each antenna type that is used with the transmitter being tested.

Immediately following the above notice, the manufacturer shall provide a list of all antenna types which can be used with the transmitter, indicating the maximum permissible antenna gain (in dBi) and the required impedance for each antenna type.

-The transmitter has permanently attached PCB loop Antenna (internal antenna) on board.

4. Summary of tests

FCC Part section(s)	IC Rule reference	Parameter	Test Condition	Test results
15.225(a)	RSS-210 B.6 (Ⅰ)	In-band Fundamental Emission	Radiated	Pass
15.225(b), (c)	RSS-210 B.6 (Ⅱ), (Ⅲ)	In-band Spurious Emission		Pass
15.225(d) 15.209	RSS-210 B.6 (Ⅳ) RSS-Gen Issue 9 (8.9)	Out-of–band Spurious Emission		Pass
15.225(e)	RSS-210 B.6 (b)	Frequency Stability Tolerance	Conducted	Pass
15.215(c)	-	20 ㏈ Bandwidth		Pass
-	RSS-Gen Issue 5 (6.7)	Occupied Bandwidth		Pass
15.207(a)	RSS-Gen Issue 5 (8.8)	AC Conducted emissions		Pass

Notes: (N/T: Not Tested, N/A: Not Applicable)

1. These tests were performed other than open field site, adequate comparison measurements were confirmed against 30 m open field site. Therefore sufficient tests were made to demonstrate that the alternative site produces results that correlate with the ones of tests made in an open field based on KDB 414788.
2. The fundamental of the EUT was investigated in three orthogonal orientations X, Y, Z It was determined that **Y** orientation was worst-case orientation. Therefore, all final radiated testing was performed with the EUT in **Y** orientation
3. The test procedure(s) in this report were performed in accordance as following.
   - ANSI C63.10-2020+Cor.1-2023
   - ANSI C63.10-2020+Cor.1-2023+C63.10a-2024+Errata to C63.10a-2024
4. The radiated test was performed with and without passive tag. The test results shown in the following sections represent the worst case emissions.
   - Worst Case : Without passive tag

5. Measurement uncertainty

The measurement uncertainties shown below were calculated in accordance with the requirements of ANSI C63.10-2020.

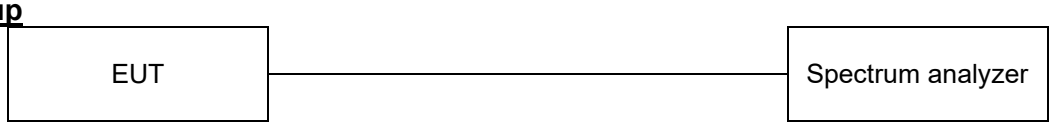
All measurement uncertainty values are shown with a coverage factor of k=2 to indicated a 95 % level of confidence. The measurement data shown herein meets of exceeds the U_{CISPR} measurement uncertainty values specified in CISPR 16-4-2 and thus, can be compared directly to specified limits to determine compliance.

Parameter	Expanded uncertainty (±)	
Frequency Stability Tolerance	0.03 ppm	
20 dB Channel Bandwidth	0.9 %	
Occupied Bandwidth	0.9 %	
Radiated spurious Emissions (Bandedge, restricted band)	Below 30 ㎒	2.4 dB
	30 ㎒ to 1 000 ㎒	2.6 dB
	1 000 ㎒ to 18 000 ㎒	4.7 dB
	Above 18 000 ㎒	4.8 dB
AC Conducted Emissions	150 ㎑ to 30 ㎒	2.8 dB

6. Test results

6.1. 20 dB Bandwidth & 99% Bandwidth

Test setup



Limit

According to §15.215(c) Intentional radiators operating under the alternative provisions to the general emission limits, as contained in §§15.217 through 15.257 and in subpart E of this part, must be designed to ensure that the 20 dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equipment operates, is contained within the frequency band designated in the rule section under which the equipment is operated.

According to RSS-Gen Issue 5 (6.7) The emission bandwidth (x dB) is defined as the frequency range between two points, one above and one below the carrier frequency, at which the spectral density of the emission is attenuated x dB below the maximum in-band spectral density of the modulated signal. Spectral density (power per unit bandwidth) is to be measured with a detector of resolution bandwidth in the range of 1% to 5% of the anticipated emission bandwidth, and a video bandwidth at least 3x the resolution bandwidth.
When the occupied bandwidth limit is not stated in the applicable RSS or reference measurement method, the transmitted signal bandwidth shall be reported as the 99% emission bandwidth, as calculated or measured.

Test procedure

ANSI C63.10 - Section 6.9.2

Test settings

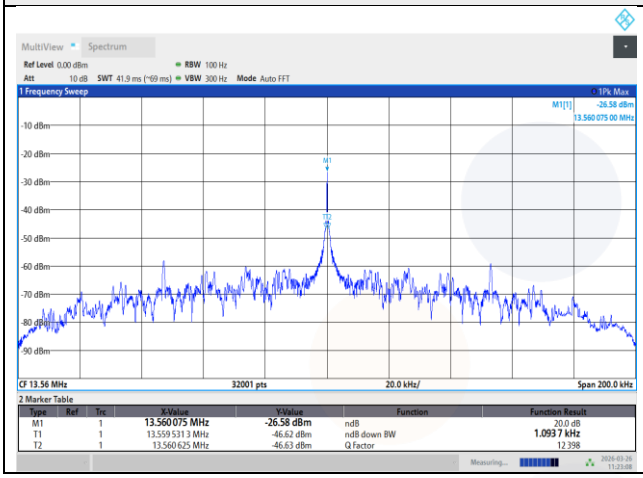
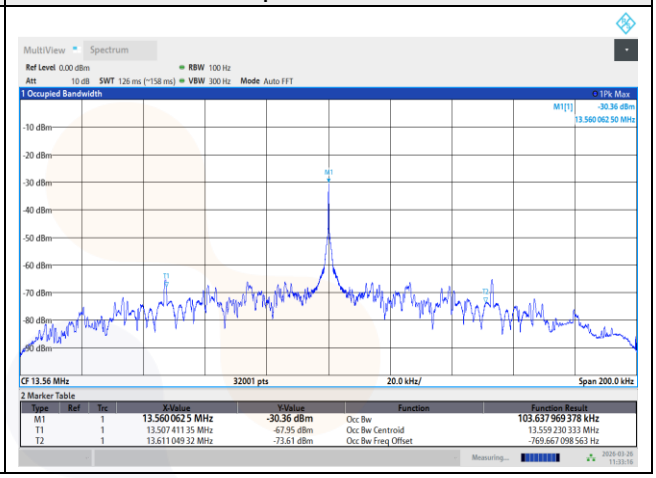
The occupied bandwidth is measured as the width of the spectral envelope of the modulated signal, at an amplitude level reduced from a reference value by a specified ratio (or in decibels, a specified number of dB down from the reference value). Typical ratios, expressed in dB, are −6 dB, −20 dB, and −26 dB, corresponding to 6 dB BW, 20 dB BW, and 26 dB BW, respectively. In this subclause, the ratio is designated by "−xx dB." The reference value is either the level of the unmodulated carrier or the highest level of the spectral envelope of the modulated signal, as stated by the applicable requirement. Some requirements might specify a specific maximum or minimum value for the "−xx dB" bandwidth; other requirements might specify that the "−xx dB" bandwidth be entirely contained within the authorized or designated frequency band.

a) The spectrum analyzer center frequency is set to the nominal EUT channel center frequency.
b) Span: Two times and five times the OBW.
c) RBW = 1 % to 5 % of the OBW and VBW ≥ 3 x RBW
d) Set the reference level of the instrument as required, keeping the signal from exceeding the maximum input mixer level for linear operation.
e) The dynamic range of the instrument at the selected RBW shall be more than 10 dB below the target "−xx dB down" requirement; that is, if the requirement calls for measuring the −20 dB OBW, the instrument noise floor at the selected RBW shall be at least 30 dB below the reference value.
f) Detector: peak
g) Trace mode: max hold.
h) Allow the trace to stabilize.
i) Determine the "−xx dB down amplitude" using ((reference value) − xx). Alternatively, this calculation may be made by using the marker-delta function of the instrument.
j) If the reference value is determined by an unmodulated carrier, then turn the EUT modulation ON, and either clear the existing trace or start a new trace on the spectrum analyzer and allow the new trace to stabilize. Otherwise, the trace from step g) shall be used for step j)
k) Place two markers, one at the lowest frequency and the other at the highest frequency of the envelope of the spectral display, such that each marker is at or slightly below the "−xx dB down amplitude" determined in step h). If a marker is below this "−xx dB down amplitude" value, then it shall be as close as possible to this value. The occupied bandwidth is the frequency difference between the two markers. Alternatively, set a marker at the lowest frequency of the envelope of the spectral display, such that the marker is at or slightly below the "−xx dB down amplitude" determined in step h). Reset the marker-delta function and move the marker to the other side of the emission until the delta marker amplitude is at the same level as the reference marker amplitude. The marker-delta frequency reading at this point is the specified emission bandwidth.

Test results

[DC 24 V]

Frequency [㎒]	20 ㏈ Bandwidth [㎒]		Limit [㎒]	20 ㏈ Bandwidth [㎑]	Occupied Bandwidth (99 % BW) [㎑]
13.56	Lowest Frequency	13.559 5	13.110 0	1.094	103.64
	Highest Frequency	13.560 6	14.010 0		

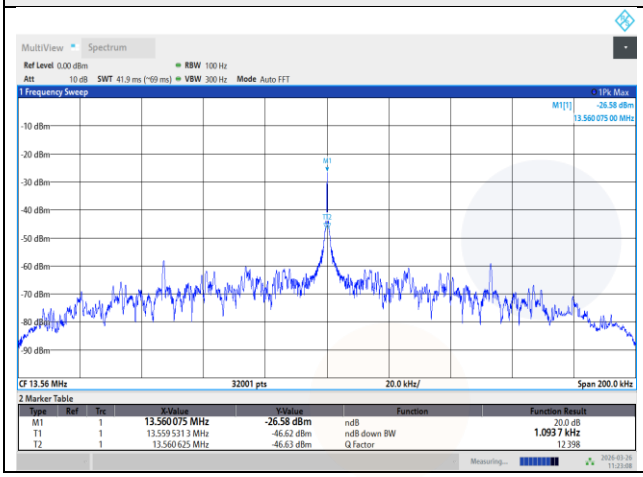
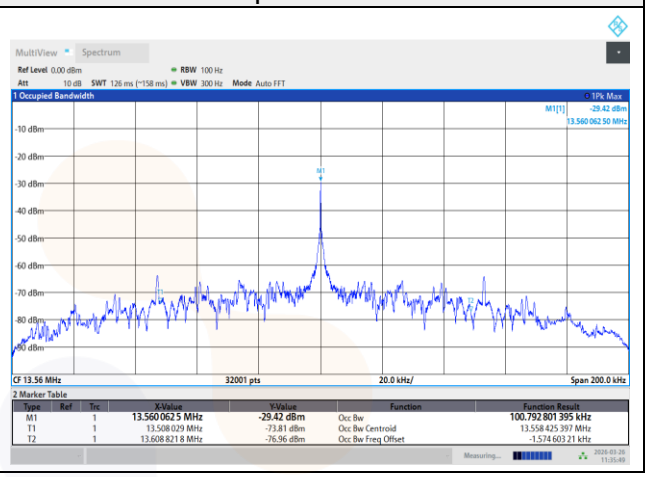
20 ㏈ Bandwidth	Occupied Bandwidth
	

Note:

Because the measured signal is CW/CW-like, adjusting the RBW per C63.10 would not be practical since measured bandwidth will always follow the RBW and the result will be approximately twice the RBW

[PoE]

Frequency [㎒]	20 ㏈ Bandwidth [㎒]		Limit [㎒]	20 ㏈ Bandwidth [㎑]	Occupied Bandwidth (99 % BW) [㎑]
13.56	Lowest Frequency	13.559 5	13.110 0	1.094	100.79
	Highest Frequency	13.560 6	14.010 0		

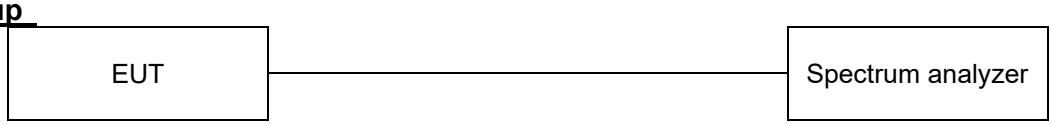
20 ㏈ Bandwidth	Occupied Bandwidth
	

Note:

Because the measured signal is CW/CW-like, adjusting the RBW per C63.10 would not be practical since measured bandwidth will always follow the RBW and the result will be approximately twice the RBW

6.2. Frequency tolerance

Test setup



Limit

According to §15.225 (e), RSS-210 B.6.(b) The frequency tolerance of the carrier signal shall be maintained within ±0.01 % of the operating frequency over a temperature variation of −20 degrees to +50 degrees C at normal supply voltage, and for a variation in the primary supply voltage from 85 % to 115 % of the rated supply voltage at a temperature of 20 degrees C. For battery operated equipment, the equipment tests shall be performed using a new battery.

Test procedure

ANSI C63.10 - Section 6.8.1

Test results
[DC 24 V]

Voltage	Voltage	TEMP	Maintaining time	Measure frequency	Frequency deviation	Deviation
[%]	[V]	[℃]		[㎐]	[㎐]	[%]
100	24.00	23	Startup	13 560 056	-56.2	0.000 41
			2 minutes	13 560 050	-50.0	0.000 37
			5 minutes	13 560 050	-50.0	0.000 37
			10 minutes	13 560 044	-43.7	0.000 32
		-20	Startup	13 560 175	-175.0	0.001 29
			2 minutes	13 560 188	-187.5	0.001 38
			5 minutes	13 560 200	-200.0	0.001 48
			10 minutes	13 560 203	-203.1	0.001 50
		-10	Startup	13 560 206	-206.2	0.001 52
			2 minutes	13 560 200	-200.0	0.001 48
			5 minutes	13 560 200	-200.0	0.001 48
			10 minutes	13 560 197	-196.9	0.001 45
		0	Startup	13 560 206	-206.2	0.001 52
			2 minutes	13 560 200	-200.0	0.001 48
			5 minutes	13 560 194	-193.7	0.001 43
			10 minutes	13 560 191	-190.6	0.001 41
		10	Startup	13 560 188	-187.5	0.001 38
			2 minutes	13 560 175	-175.0	0.001 29
			5 minutes	13 560 169	-168.7	0.001 24
			10 minutes	13 560 163	-162.5	0.001 20
		20(Ref.)	Startup	13 560 131	-131.2	0.000 97
			2 minutes	13 560 125	-125.0	0.000 92
			5 minutes	13 560 119	-118.7	0.000 88
			10 minutes	13 560 117	-117.2	0.000 86
		30	Startup	13 560 088	-87.5	0.000 65
			2 minutes	13 560 075	-75.0	0.000 55
			5 minutes	13 560 069	-68.7	0.000 51
			10 minutes	13 560 063	-62.5	0.000 46
		40	Startup	13 560 031	-31.2	0.000 23
			2 minutes	13 560 028	-28.1	0.000 21
			5 minutes	13 560 025	-25.0	0.000 18
			10 minutes	13 560 022	-21.9	0.000 16
		50	Startup	13 560 013	-12.5	0.000 09
			2 minutes	13 559 997	3.1	-0.000 02
			5 minutes	13 559 997	3.1	-0.000 02
			10 minutes	13 559 994	6.2	-0.000 05
		60	Startup	13 559 994	6.2	-0.000 05
			2 minutes	13 559 988	12.5	-0.000 09
			5 minutes	13 559 988	12.5	-0.000 09
			10 minutes	13 559 983	17.4	-0.000 13
85	20.40	23	Startup	13 560 056	-56.2	0.000 41
			2 minutes	13 560 050	-50.0	0.000 37
			5 minutes	13 560 044	-43.7	0.000 32
			10 minutes	13 560 038	-37.5	0.000 28
115	27.60	23	Startup	13 560 056	-56.2	0.000 41
			2 minutes	13 560 050	-50.0	0.000 37
			5 minutes	13 560 044	-43.7	0.000 32
			10 minutes	13 560 038	-37.5	0.000 28

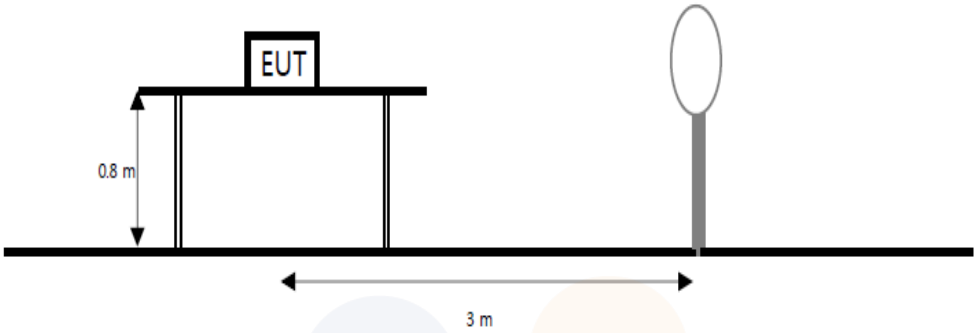
[PoE]

Voltage	Voltage	TEMP	Maintaining time	Measure frequency	Frequency deviation	Deviation
[%]	[V]	[℃]		[㎐]	[㎐]	[%]
100	53.50	23	Startup	13 560 056	-56.2	0.000 41
			2 minutes	13 560 050	-50.0	0.000 37
			5 minutes	13 560 049	-49.2	0.000 36
			10 minutes	13 560 044	-43.5	0.000 32
		-20	Startup	13 560 181	-181.2	0.001 34
			2 minutes	13 560 194	-193.7	0.001 43
			5 minutes	13 560 202	-201.6	0.001 49
			10 minutes	13 560 202	-201.6	0.001 49
		-10	Startup	13 560 206	-206.2	0.001 52
			2 minutes	13 560 200	-200.0	0.001 48
			5 minutes	13 560 200	-199.9	0.001 47
			10 minutes	13 560 197	-196.9	0.001 45
		0	Startup	13 560 206	-206.2	0.001 52
			2 minutes	13 560 197	-196.9	0.001 45
			5 minutes	13 560 194	-193.7	0.001 43
			10 minutes	13 560 188	-187.5	0.001 38
		10	Startup	13 560 181	-181.2	0.001 34
			2 minutes	13 560 175	-175.0	0.001 29
			5 minutes	13 560 163	-162.5	0.001 20
			10 minutes	13 560 161	-160.9	0.001 19
		20(Ref.)	Startup	13 560 131	-131.2	0.000 97
			2 minutes	13 560 125	-125.0	0.000 92
			5 minutes	13 560 119	-118.7	0.000 88
			10 minutes	13 560 113	-112.5	0.000 83
		30	Startup	13 560 081	-81.2	0.000 60
			2 minutes	13 560 075	-75.0	0.000 55
			5 minutes	13 560 067	-67.2	0.000 50
			10 minutes	13 560 066	-65.6	0.000 48
		40	Startup	13 560 031	-31.2	0.000 23
			2 minutes	13 560 028	-28.1	0.000 21
			5 minutes	13 560 025	-25.0	0.000 18
			10 minutes	13 560 023	-23.4	0.000 17
		50	Startup	13 560 006	-6.2	0.000 05
			2 minutes	13 559 997	3.1	-0.000 02
			5 minutes	13 559 997	3.1	-0.000 02
			10 minutes	13 559 994	6.2	-0.000 05
		60	Startup	13 559 994	6.2	-0.000 05
			2 minutes	13 559 988	12.4	-0.000 09
			5 minutes	13 559 988	12.4	-0.000 09
			10 minutes	13 559 983	17.4	-0.000 13
85	47.78	23	Startup	13 560 056	-56.2	0.000 41
			2 minutes	13 560 050	-50.0	0.000 37
			5 minutes	13 560 044	-43.7	0.000 32
			10 minutes	13 560 038	-37.5	0.000 28
115	61.53	23	Startup	13 560 056	-56.2	0.000 41
			2 minutes	13 560 050	-50.0	0.000 37
			5 minutes	13 560 044	-43.7	0.000 32
			10 minutes	13 560 038	-37.5	0.000 28

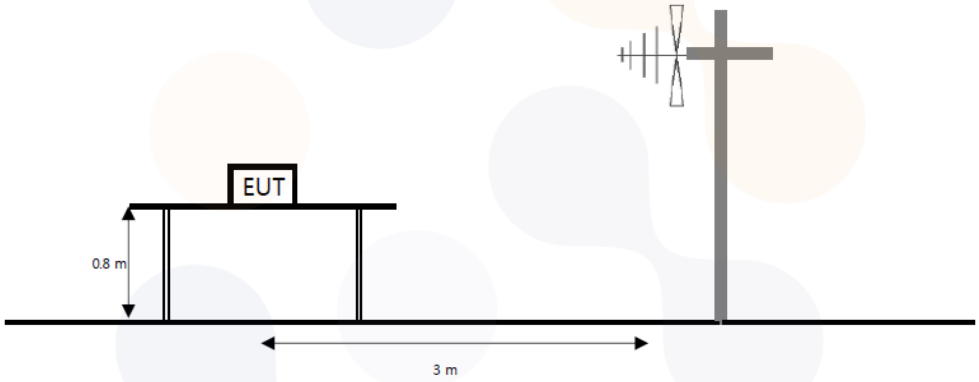
6.3. Radiated spurious emissions

Test setup

The diagram below shows the test setup that is utilized to make the measurements for emission from 9 ㎑ to 30 ㎒ Emissions



The diagram below shows the test setup that is utilized to make the measurements for emission from 30 ㎒ to 1 ㎓ emissions.



Limit

15.225 (a), RSS-210 B.6.(a).(ⅰ) The field strength of any emission within the band 13.553-13.567 ㎒ shall not exceed 15, 848 microvolts/meter at 30 meters.

15.225 (b), RSS-210 B.6.(a).(ⅱ) With in the bands 13.410-13.553 ㎒ and 13.567-13.710 ㎒, the field strength of any emissions shall not exceed 334 microvolts/meter at 30 meters.

15.225 (c), RSS-210 B.6 (a).(ⅲ) With in the bands 13.110-13.410 ㎒ and 13.710-14.010 ㎒, the field strength of any emissions shall not exceed 106 microvolts/meter at 30 meters.

15.225 (d), RSS-210 B.6.(a).(ⅳ) RSS-Gen Issue 9 (8.9) The Field Strength of any emissions appearing outside of the 13.110-14.010 ㎒ band shall not exceed the general radiated emission limits in 15.209.

Frequency (㎒)	Field Strength (㎶/m)	Measurement distance (meters)
0.009-0.490	2400/F(㎑)	300
0.490-1.705	24000/F(㎑)	30
1.705-30.0	30(29.54 ㏈㎶/m)	30
30.0-88.0	100(40 ㏈㎶/m)	3
88-216	150(43.5 ㏈㎶/m)	3
216-960	200 (46 ㏈㎶/m)	3
Above 960	500 (53.98 ㏈㎶/m)	3

Test procedure

ANSI C63.10 - Section 6.4, 6.5

Test settings

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = as specified in table
3. VBW ≥ (3×RBW)
4. Detector = peak
5. Sweep time = No faster than coupled (auto) time
6. Trace mode = max hold
7. Allow sweeps to continue until the trace stabilizes

Table. RBW as a function of frequency

Frequency	RBW
9 ㎑ to 150 ㎑	200 ㎐ to 300 ㎐
0.15 ㎒ to 30 ㎒	9 ㎑ to 10 ㎑
30 ㎒ to 1 000 ㎒	100 ㎑ to 120 ㎑
> 1 000 ㎒	1 ㎒

Notes:

1. f <30 ㎒, extrapolation factor of 40 ㏈/decade of distance. $F_d = 40\log(D_m/Ds)$
   f ≥30 ㎒, extrapolation factor of 20 ㏈/decade of distance. $F_d = 20\log(D_m/Ds)$
   Where:
   F_d= Distance factor in ㏈
   D_m= Measurement distance in meters
   D_s= Specification distance in meters
2. Measurements were performed at 3m and the data was extrapolated to the specified measurement distance of 30m using the square of an inverse linear distance extrapolation factor (40 ㏈/decade) as specified in § 15.31(f)(2). Extrapolation Factor = 40 log10(30/3) = 40 ㏈.
3. Factors(㏈) = Antenna factor(㏈/m) + Cable loss(㏈) + or Amp. gain(㏈) - or F_d(㏈)
4. The worst-case emissions are reported however emissions whose levels were not within 20 ㏈ of respective limits were not reported.
5. All measurements were recorded using a spectrum analyzer employing a quasi-peak detector.
6. Below 30 ㎒ frequency range, all orientations about parallel, perpendicular, and ground-parallel were investigated then reported and the worse orientations of Face-on and Face-off were set for final test.
7. Face-on = Parallel, Face-off = Perpendicular
8. [1)] means restricted band

[BS3M-OAPB]

Test results for fundamental
[DC 24 V]

15.225 (a), RSS-210 B.6.(a).(i) 13.553-13.567 ㎒

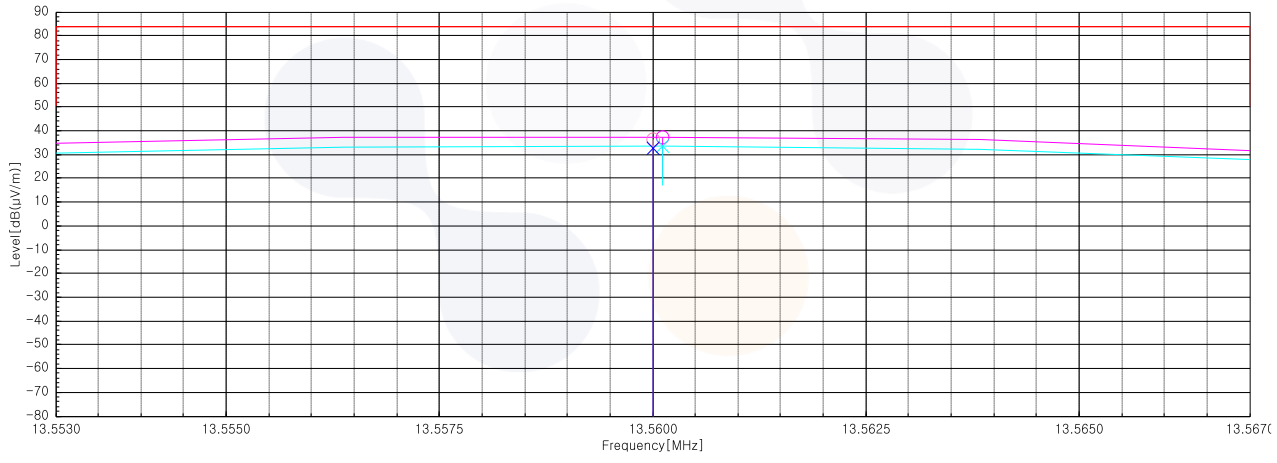
[Face-on]

Frequency	Reading	Antenna Factor	Amp. + Cable	Distance Factor	Result	Limit	Margin
(㎒)	(dB(㎶))	(dB)	(dB)	(dB)	(dB(㎶/m))	(dB(㎶/m))	(dB)
Quasi peak data							
13.56	88.00	20.57	-32.49	40.00	36.08	84.00	47.92

[Face-off]

Frequency	Reading	Antenna Factor	Amp. + Cable	Distance Factor	Result	Limit	Margin
(㎒)	(dB(㎶))	(dB)	(dB)	(dB)	(dB(㎶/m))	(dB(㎶/m))	(dB)
Quasi peak data							
13.56	84.60	20.57	-32.49	40.00	32.68	84.00	51.32

Face-on/Face-off



Test results for in-band & out-band (9 ㎑ to 30 ㎒)
15.225 (b,c), RSS-210 B.6.(a).(ii, iii) 13.110-14.010 ㎒

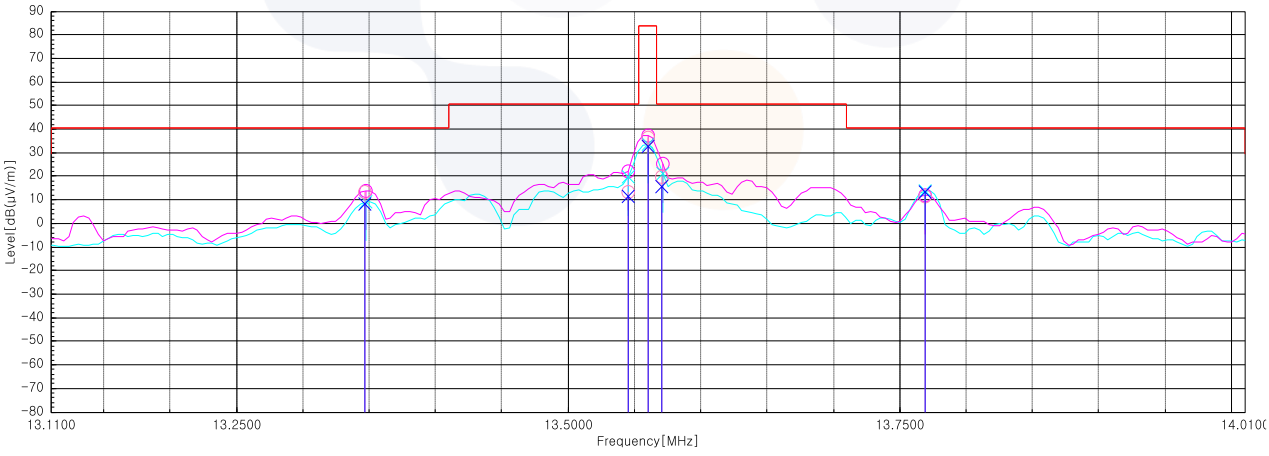
[Face-on]

Frequency	Reading	Antenna Factor	Amp. + Cable	Distance Factor	Result	Limit	Margin
(㎒)	(dB(㎶))	(dB)	(dB)	(dB)	(dB(㎶/m))	(dB(㎶/m))	(dB)
Quasi peak data							
13.35	65.10	20.57	-32.50	40.00	13.17	40.50	27.33
13.55	65.00	20.57	-32.49	40.00	13.08	50.50	37.42
13.57	71.70	20.57	-32.49	40.00	19.78	50.50	30.72
13.77	63.40	20.58	-32.47	40.00	11.51	40.50	28.99

[Face-off]

Frequency	Reading	Antenna Factor	Amp. + Cable	Distance Factor	Result	Limit	Margin
(㎒)	(dB(㎶))	(dB)	(dB)	(dB)	(dB(㎶/m))	(dB(㎶/m))	(dB)
Quasi peak data							
13.35	60.00	20.57	-32.50	40.00	8.07	40.50	32.43
13.55	63.20	20.57	-32.49	40.00	11.28	50.50	39.22
13.57	67.60	20.57	-32.49	40.00	15.68	50.50	34.82
13.77	65.00	20.58	-32.47	40.00	13.11	40.50	27.39

Face-on/Face-off



Note. The limits in CFR 47, Part 15, Subpart C, paragraph 15.209 (a), are identical to those in RSS-GEN Section 8.9, Table 6, since the measurements are performed in terms of magnetic field strength and converted to electric field strength levels (as reported in the table) using the free space impedance of 377Ω. For example, the measurement frequency X KHz resulted in a level of Y dBuV/m, which is equivalent to Y-51.5 = Z dBuA/m, which has the same margin, W dB, to the corresponding RSS-GEN Table 6 limit as it has to the 15.209(a) limit.

Test results (9 ㎑ to 30 ㎒)

15.225 (d), RSS-210 B.6.(a).(iv) 0.009-30 ㎒

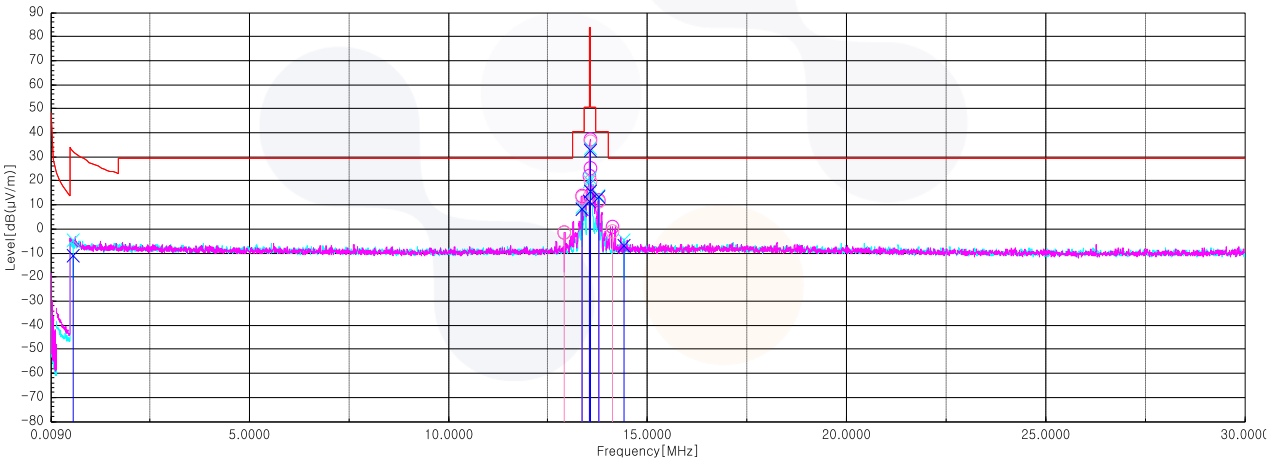
[Face-on]

Frequency	Reading	Antenna Factor	Amp. + Cable	Distance Factor	Result	Limit	Margin
(㎒)	(dB(㎶))	(dB)	(dB)	(dB)	(dB(㎶/m))	(dB(㎶/m))	(dB)
Quasi peak data							
12.92	50.50	20.56	-32.52	40.00	-1.46	29.54	31.00
14.12	50.70	20.58	-32.45	40.00	-1.17	29.54	30.71

[Face-off]

Frequency	Reading	Antenna Factor	Amp. + Cable	Distance Factor	Result	Limit	Margin
(㎒)	(dB(㎶))	(dB)	(dB)	(dB)	(dB(㎶/m))	(dB(㎶/m))	(dB)
Quasi peak data							
0.56	41.60	20.21	-32.69	40.00	-10.88	32.64	43.52
14.40	44.60	20.59	-32.44	40.00	-7.25	29.54	36.79

Face-on/Face-off



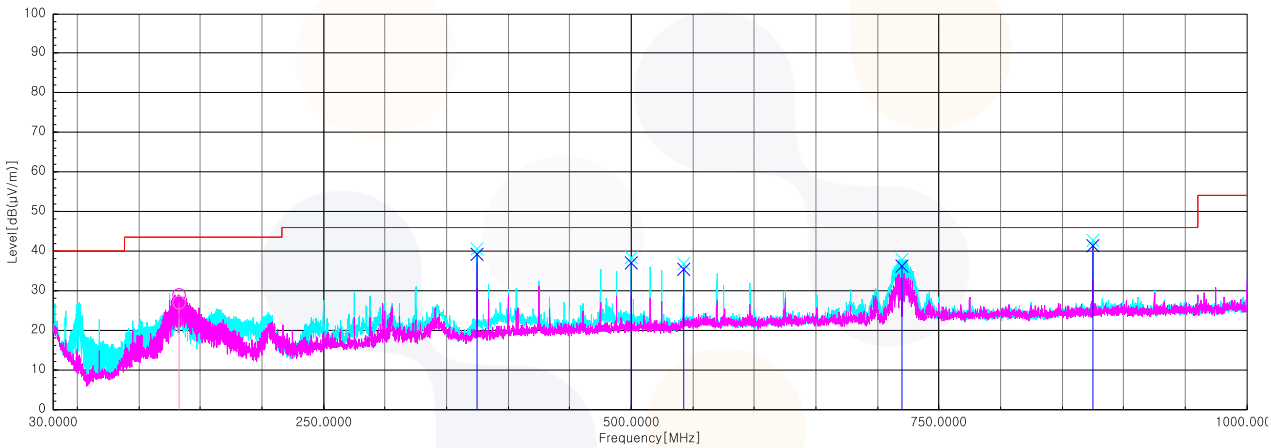
Note. The limits in CFR 47, Part 15, Subpart C, paragraph 15.209 (a), are identical to those in RSS-GEN Section 8.9, Table 6, since the measurements are performed in terms of magnetic field strength and converted to electric field strength levels (as reported in the table) using the free space impedance of 377Ω. For example, the measurement frequency X KHz resulted in a level of Y dBuV/m, which is equivalent to Y-51.5 = Z dBuA/m, which has the same margin, W dB, to the corresponding RSS-GEN Table 6 limit as it has to the 15.209(a) limit.

Test results (Below 1 000 ㎒)

15.225 (d), RSS-210 B.6.(a).(iv) 30-1 000 ㎒

Frequency	Pol.	Reading	Antenna Factor	Amp. + Cable	Distance Factor	Result	Limit	Margin
(㎒)	(V/H)	(dB(㎶))	(dB)	(dB)	(dB)	(dB(㎶/m))	(dB(㎶/m))	(dB)
Quasi peak data								
132.94[1)]	H	40.50	17.81	-31.44	-	26.87	43.52	16.65
374.96	V	48.90	20.90	-30.57	-	39.23	46.02	6.79
499.97	V	44.40	23.50	-30.75	-	37.15	46.02	8.87
542.40	V	41.50	24.14	-30.34	-	35.30	46.02	10.72
720.03	V	41.30	25.00	-30.09	-	36.21	46.02	9.81
875.11	V	44.00	26.40	-29.04	-	41.36	46.02	4.66

Horizontal/Vertical



[PoE]

15.225 (a), RSS-210 B.6.(a).(i) 13.553-13.567 ㎒

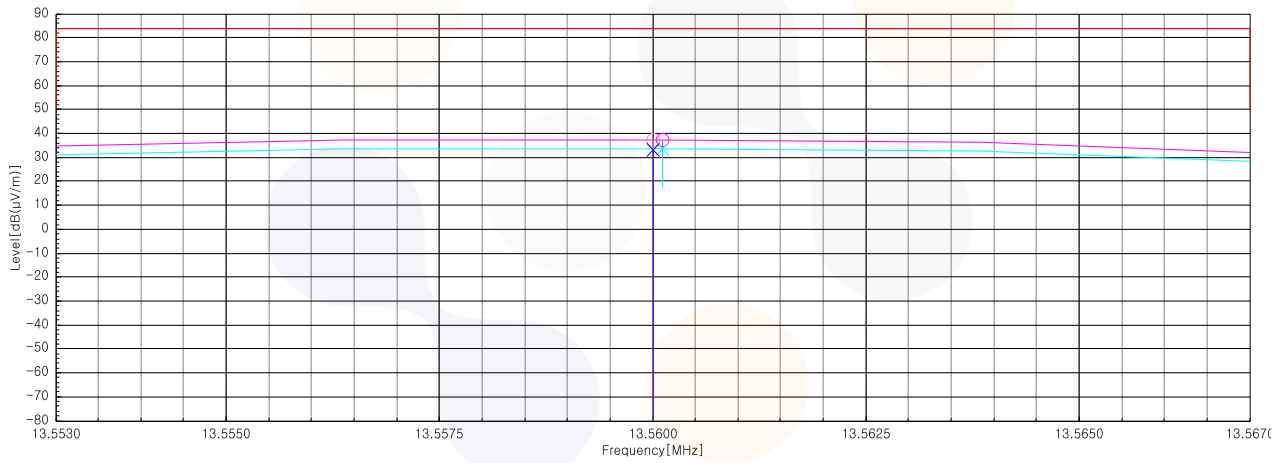
[Face-on]

Frequency	Reading	Antenna Factor	Amp. + Cable	Distance Factor	Result	Limit	Margin
(㎒)	(dB(㎶))	(dB)	(dB)	(dB)	(dB(㎶/m))	(dB(㎶/m))	(dB)
Quasi peak data							
13.56	89.10	20.57	-32.49	40.00	37.18	84.00	46.82

[Face-off]

Frequency	Reading	Antenna Factor	Amp. + Cable	Distance Factor	Result	Limit	Margin
(㎒)	(dB(㎶))	(dB)	(dB)	(dB)	(dB(㎶/m))	(dB(㎶/m))	(dB)
Quasi peak data							
13.56	85.20	20.57	-32.49	40.00	33.28	84.00	50.72

Face-on/Face-off



Test results for in-band & out-band (9 ㎑ to 30 ㎒)
15.225 (b,c), RSS-210 B.6.(a).(ii, iii) 13.110-14.010 ㎒

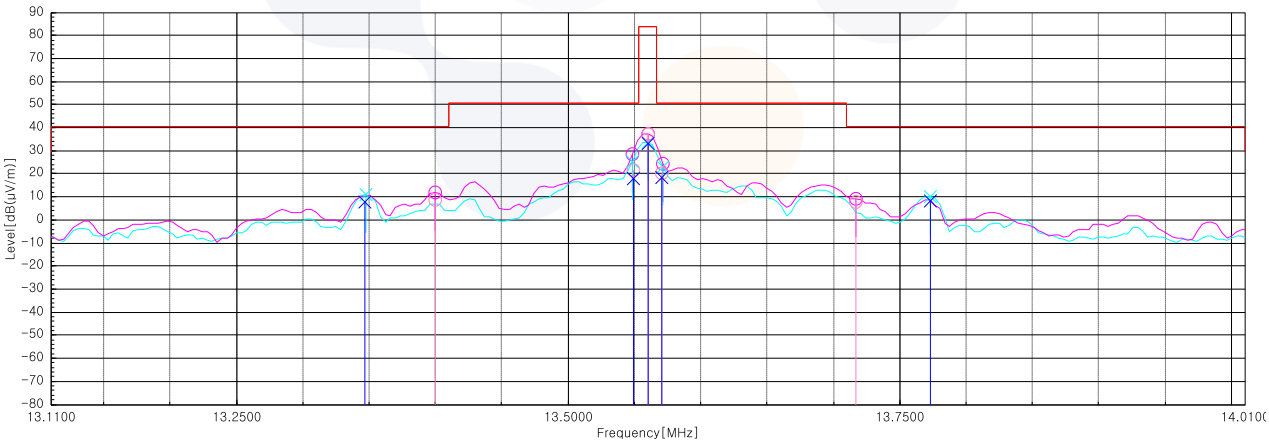
[Face-on]

Frequency	Reading	Antenna Factor	Amp. + Cable	Distance Factor	Result	Limit	Margin
(㎒)	(dB(㎶))	(dB)	(dB)	(dB)	(dB(㎶/m))	(dB(㎶/m))	(dB)
Quasi peak data							
13.40	60.50	20.57	-32.50	40.00	8.57	40.50	31.93
13.55	73.50	20.57	-32.49	40.00	21.58	50.50	28.92
13.57	72.20	20.57	-32.49	40.00	20.28	50.50	30.22
13.72	59.60	20.57	-32.48	40.00	7.69	40.50	32.81

[Face-off]

Frequency	Reading	Antenna Factor	Amp. + Cable	Distance Factor	Result	Limit	Margin
(㎒)	(dB(㎶))	(dB)	(dB)	(dB)	(dB(㎶/m))	(dB(㎶/m))	(dB)
Quasi peak data							
13.35	59.80	20.57	-32.50	40.00	7.87	40.50	32.63
13.55	69.70	20.57	-32.49	40.00	17.78	50.50	32.72
13.57	70.30	20.57	-32.49	40.00	18.38	50.50	32.12
13.77	60.30	20.58	-32.47	40.00	8.41	40.50	32.09

Face-on/Face-off



Note. The limits in CFR 47, Part 15, Subpart C, paragraph 15.209 (a), are identical to those in RSS-GEN Section 8.9, Table 6, since the measurements are performed in terms of magnetic field strength and converted to electric field strength levels (as reported in the table) using the free space impedance of 377Ω. For example, the measurement frequency X KHz resulted in a level of Y dBuV/m, which is equivalent to Y-51.5 = Z dBuA/m, which has the same margin, W dB, to the corresponding RSS-GEN Table 6 limit as it has to the 15.209(a) limit.

Test results (9 ㎑ to 30 ㎒)

15.225 (d), RSS-210 B.6.(a).(iv) 0.009-30 ㎒

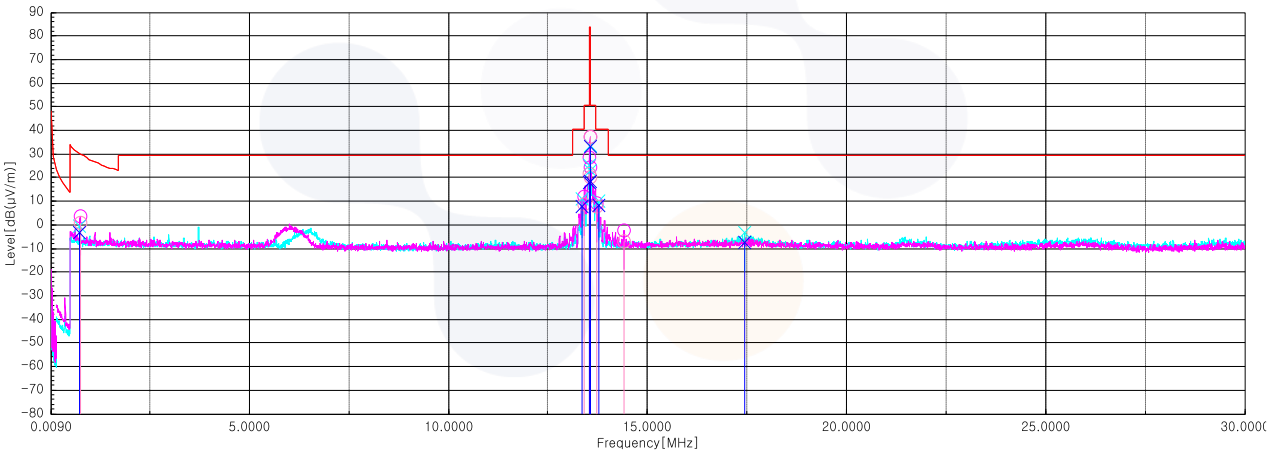
[Face-on]

Frequency	Reading	Antenna Factor	Amp. + Cable	Distance Factor	Result	Limit	Margin
(㎒)	(dB(㎶))	(dB)	(dB)	(dB)	(dB(㎶/m))	(dB(㎶/m))	(dB)
Quasi peak data							
0.75	53.10	20.25	-32.68	40.00	0.67	30.14	29.47
14.41	45.00	20.59	-32.44	40.00	-6.85	29.54	36.39

[Face-off]

Frequency	Reading	Antenna Factor	Amp. + Cable	Distance Factor	Result	Limit	Margin
(㎒)	(dB(㎶))	(dB)	(dB)	(dB)	(dB(㎶/m))	(dB(㎶/m))	(dB)
Quasi peak data							
0.74	48.90	20.25	-32.68	40.00	-3.53	30.24	33.77
17.44	44.20	20.75	-32.45	40.00	-7.50	29.54	37.04

Face-on/Face-off



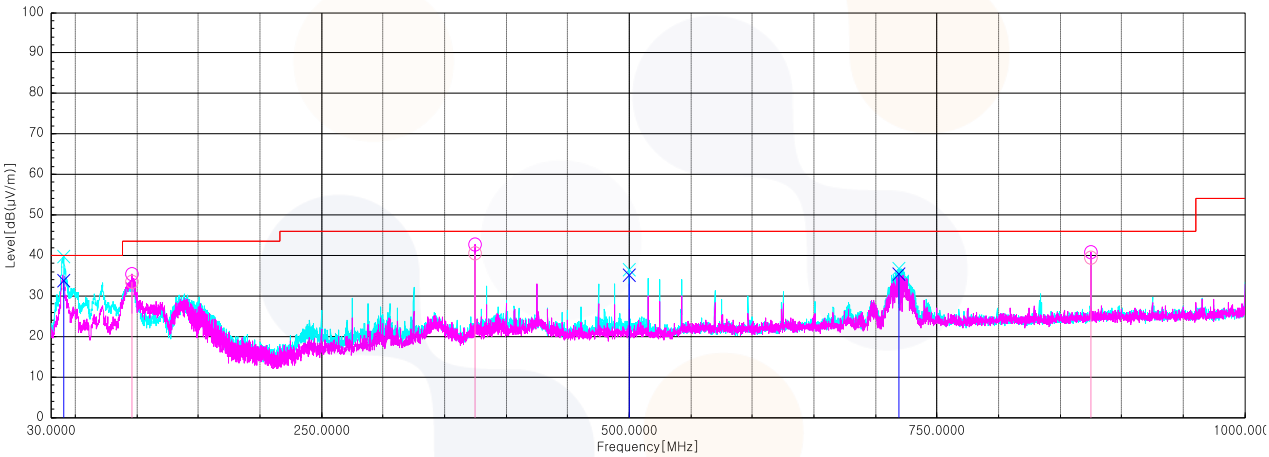
Note. The limits in CFR 47, Part 15, Subpart C, paragraph 15.209 (a), are identical to those in RSS-GEN Section 8.9, Table 6, since the measurements are performed in terms of magnetic field strength and converted to electric field strength levels (as reported in the table) using the free space impedance of 377Ω. For example, the measurement frequency X KHz resulted in a level of Y dBuV/m, which is equivalent to Y-51.5 = Z dBuA/m, which has the same margin, W dB, to the corresponding RSS-GEN Table 6 limit as it has to the 15.209(a) limit.

Test results (Below 1 000 ㎒)

15.225 (d), RSS-210 B.6.(a).(iv) 30-1 000 ㎒

Frequency	Pol.	Reading	Antenna Factor	Amp. + Cable	Distance Factor	Result	Limit	Margin
(㎒)	(V/H)	(dB(㎶))	(dB)	(dB)	(dB)	(dB(㎶/m))	(dB(㎶/m))	(dB)
Quasi peak data								
40.43	V	47.10	19.13	-32.43	-	33.80	40.00	6.20
96.32	H	49.50	15.83	-31.81	-	33.52	43.52	10.00
374.96	H	50.30	20.90	-30.57	-	40.63	46.02	5.39
499.97	V	42.50	23.50	-30.75	-	35.25	46.02	10.77
719.43	V	40.40	25.00	-30.04	-	35.36	46.02	10.66
875.11	H	42.00	26.40	-29.04	-	39.36	46.02	6.66

Horizontal/Vertical



[Derivative model: BS3M-ODB]
Worst case: DC 24 V

Test results for fundamental
15.225 (a), RSS-210 B.6.(a).(i) 13.553-13.567 ㎒

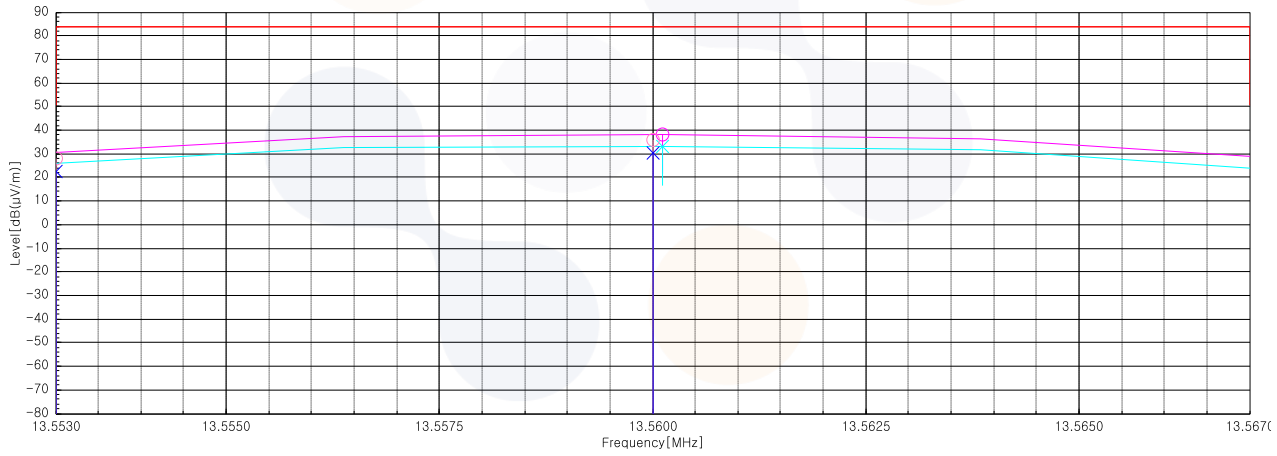
[Face-on]

Frequency	Reading	Antenna Factor	Amp. + Cable	Distance Factor	Result	Limit	Margin
(㎒)	(dB(㎶))	(dB)	(dB)	(dB)	(dB(㎶/m))	(dB(㎶/m))	(dB)
Quasi peak data							
13.56	87.70	20.57	-32.49	40.00	35.78	84.00	48.22

[Face-off]

Frequency	Reading	Antenna Factor	Amp. + Cable	Distance Factor	Result	Limit	Margin
(㎒)	(dB(㎶))	(dB)	(dB)	(dB)	(dB(㎶/m))	(dB(㎶/m))	(dB)
Quasi peak data							
13.56	82.30	20.57	-32.49	40.00	30.38	84.00	53.62

Face-on/Face-off



Test results for in-band & out-band (9 ㎑ to 30 ㎒)
15.225 (b,c), RSS-210 B.6.(a).(ii, iii) 13.110-14.010 ㎒

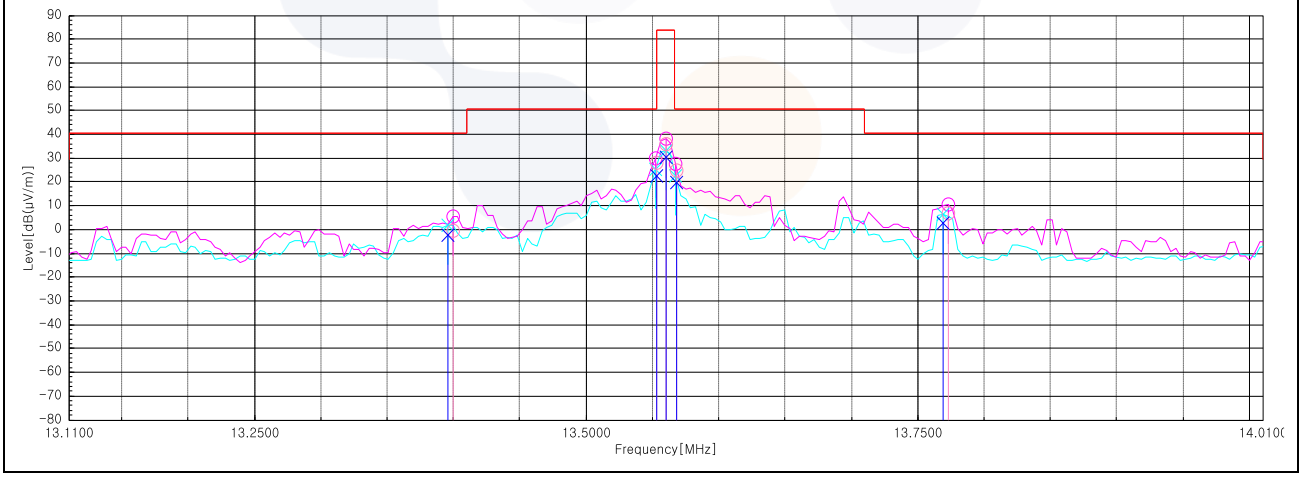
[Face-on]

Frequency	Reading	Antenna Factor	Amp. + Cable	Distance Factor	Result	Limit	Margin
(㎒)	(dB(㎶))	(dB)	(dB)	(dB)	(dB(㎶/m))	(dB(㎶/m))	(dB)
Quasi peak data							
13.40	51.60	20.57	-32.50	40.00	-0.33	40.50	40.83
13.55	79.80	20.57	-32.49	40.00	27.88	50.50	22.62
13.57	76.70	20.57	-32.49	40.00	24.78	50.50	25.72
13.77	58.80	20.58	-32.47	40.00	6.91	40.50	33.59

[Face-off]

Frequency	Reading	Antenna Factor	Amp. + Cable	Distance Factor	Result	Limit	Margin
(㎒)	(dB(㎶))	(dB)	(dB)	(dB)	(dB(㎶/m))	(dB(㎶/m))	(dB)
Quasi peak data							
13.40	49.70	20.57	-32.50	40.00	-2.23	40.50	42.73
13.55	74.20	20.57	-32.49	40.00	22.28	50.50	28.22
13.57	71.60	20.57	-32.49	40.00	19.68	50.50	30.82
13.77	54.60	20.58	-32.47	40.00	2.71	40.50	37.79

Face-on/Face-off



Note. The limits in CFR 47, Part 15, Subpart C, paragraph 15.209 (a), are identical to those in RSS-GEN Section 8.9, Table 6, since the measurements are performed in terms of magnetic field strength and converted to electric field strength levels (as reported in the table) using the free space impedance of 377Ω. For example, the measurement frequency X KHz resulted in a level of Y dBuV/m, which is equivalent to Y-51.5 = Z dBuA/m, which has the same margin, W dB, to the corresponding RSS-GEN Table 6 limit as it has to the 15.209(a) limit.

Test results (9 ㎑ to 30 ㎒)

15.225 (d), RSS-210 B.6.(a).(iv) 0.009-30 ㎒

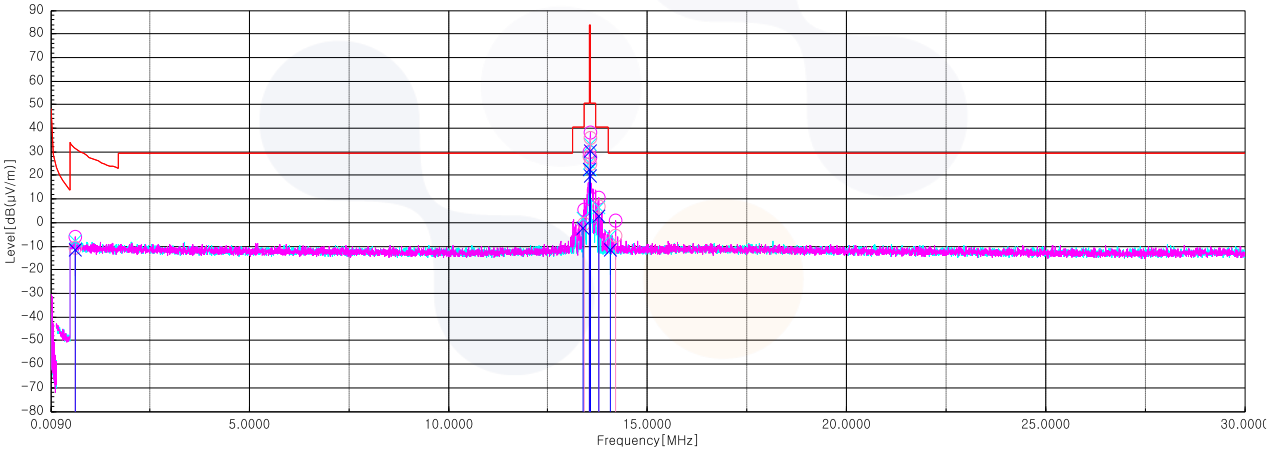
[Face-on]

Frequency	Reading	Antenna Factor	Amp. + Cable	Distance Factor	Result	Limit	Margin
(㎒)	(dB(㎶))	(dB)	(dB)	(dB)	(dB(㎶/m))	(dB(㎶/m))	(dB)
Quasi peak data							
0.62	41.60	20.22	-32.68	40.00	-10.86	31.70	42.56
14.19	46.40	20.58	-32.45	40.00	-5.47	29.54	35.01

[Face-off]

Frequency	Reading	Antenna Factor	Amp. + Cable	Distance Factor	Result	Limit	Margin
(㎒)	(dB(㎶))	(dB)	(dB)	(dB)	(dB(㎶/m))	(dB(㎶/m))	(dB)
Quasi peak data							
0.62	40.90	20.22	-32.68	40.00	-11.56	31.70	43.26
14.06	40.20	20.58	-32.46	40.00	-11.68	29.54	41.22

Face-on/Face-off



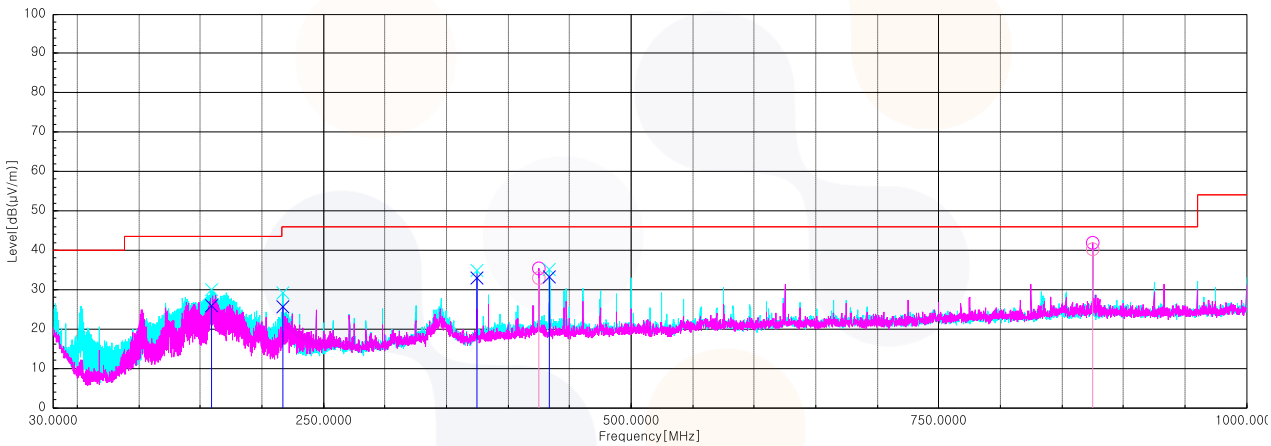
Note. The limits in CFR 47, Part 15, Subpart C, paragraph 15.209 (a), are identical to those in RSS-GEN Section 8.9, Table 6, since the measurements are performed in terms of magnetic field strength and converted to electric field strength levels (as reported in the table) using the free space impedance of 377Ω. For example, the measurement frequency X KHz resulted in a level of Y dBuV/m, which is equivalent to Y-51.5 = Z dBuA/m, which has the same margin, W dB, to the corresponding RSS-GEN Table 6 limit as it has to the 15.209(a) limit.

Test results (Below 1 000 ㎒)

15.225 (d), RSS-210 B.6.(a).(iv) 30-1 000 ㎒

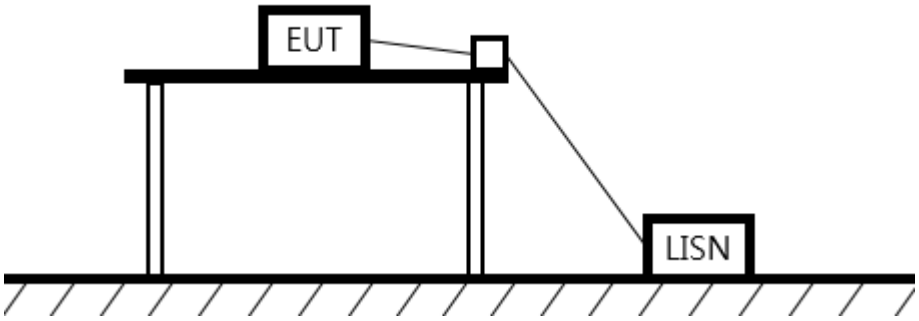
Frequency	Pol.	Reading	Antenna Factor	Amp. + Cable	Distance Factor	Result	Limit	Margin
(㎒)	(V/H)	(dB(㎶))	(dB)	(dB)	(dB)	(dB(㎶/m))	(dB(㎶/m))	(dB)
Quasi peak data								
159.37	V	41.50	16.06	-31.57	-	25.99	43.52	17.53
216.97	V	41.90	15.00	-31.16	-	25.74	46.02	20.28
374.96	V	42.50	20.90	-30.57	-	32.83	46.02	13.19
425.03	H	40.60	22.75	-30.45	-	32.90	46.02	13.12
433.88	V	41.60	22.50	-30.79	-	33.31	46.02	12.71
874.99	H	42.90	26.40	-29.05	-	40.25	46.02	5.77

Horizontal/Vertical



6.4. AC Conducted emission

Test setup



Limit

According to 15.207(a), 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 terminal. The lower applies at the boundary between the frequencies ranges.

Frequency of Emission (㎒)	Conducted limit (dB㎶/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

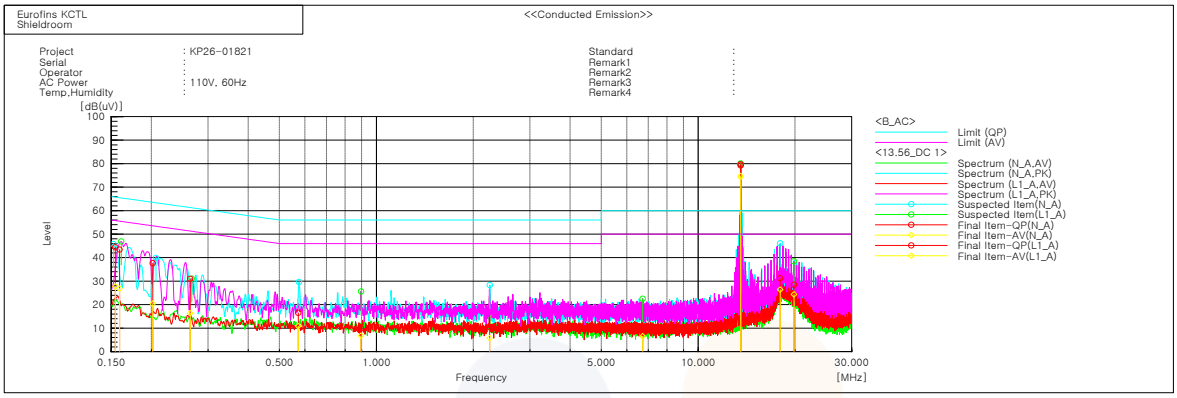
1. The EUT was placed on a wooden table of size, 1 m by 1.5 m, raised 80 ㎝ in which is located 40 ㎝ away from the vertical wall and 1.5m away from the side wall of the shielded room.
2. Each current-carrying conductor of the EUT power cord was individually connected through a 50Ω/50μH LISN, which is 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

[BS3M-OAPB]

DC 24 V

[Tests with the antenna connected]



Final Result

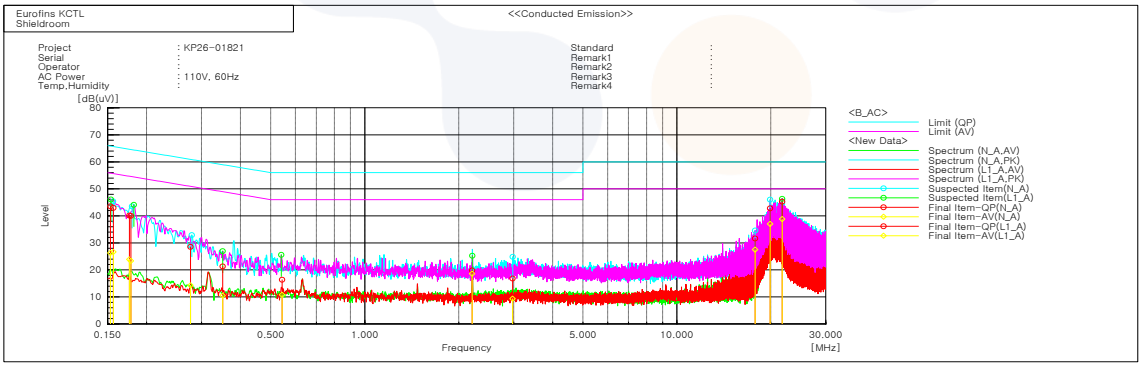
--- N_A Phase ---

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	0.15447	34.1	17.4	10.3	44.4	27.7	65.8	55.8	21.4	28.1
2	0.2018	27.1	9.8	10.5	37.6	20.3	63.5	53.5	25.9	33.2
3	0.57197	5.9	0.2	10.6	16.5	10.8	56.0	46.0	39.5	35.2
4	2.24946	0.1	-4.6	10.3	10.4	5.7	56.0	46.0	45.6	40.3
5	13.56002	68.2	63.3	11.0	79.2	74.3	60.0	50.0	-19.2	-24.3
6	17.99172	20.0	15.1	11.2	31.2	26.3	60.0	50.0	28.8	23.7

--- 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	0.15931	33.0	16.4	10.4	43.4	26.8	65.5	55.5	22.1	28.7
2	0.26392	20.7	6.0	10.3	31.0	16.3	61.3	51.3	30.3	35.0
3	0.89582	-0.5	-3.7	10.4	9.9	6.7	56.0	46.0	46.1	39.3
4	6.72425	0.5	-4.0	10.5	11.0	6.5	60.0	50.0	49.0	43.5
5	13.560	68.6	63.7	11.1	79.7	74.8	60.0	50.0	-19.7	-24.8
6	19.84143	17.0	13.0	11.4	28.4	24.4	60.0	50.0	31.6	25.6

[Retest with a dummy load]



Final Result

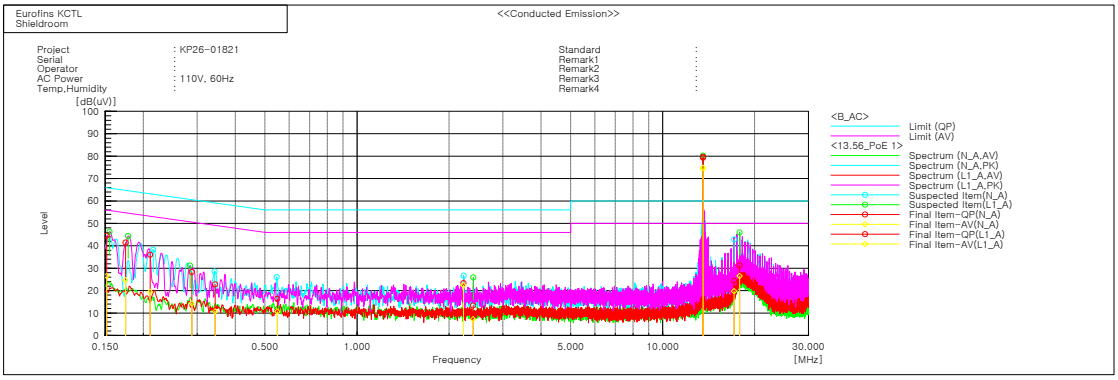
--- N_A Phase ---

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	0.15653	32.5	16.2	10.4	42.9	26.6	65.6	55.6	22.7	29.0
2	0.17607	29.5	13.2	10.6	40.1	23.8	64.7	54.7	24.6	30.9
3	0.27633	18.2	3.9	10.3	28.5	14.2	60.9	50.9	32.4	36.7
4	2.97606	6.5	-0.9	10.3	16.8	9.4	56.0	46.0	39.2	36.6
5	17.81555	20.4	16.3	11.2	31.6	27.5	60.0	50.0	28.4	22.5
6	19.91136	31.5	25.7	11.3	42.8	37.0	60.0	50.0	17.2	13.0

--- 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	0.15305	33.2	16.0	10.3	43.5	26.3	65.8	55.8	22.3	29.5
2	0.178	29.4	12.7	10.6	40.0	23.3	64.6	54.6	24.6	31.3
3	0.3507	10.9	0.1	10.4	21.3	10.5	58.9	48.9	37.6	38.4
4	0.54339	5.8	0.2	10.5	16.3	10.7	56.0	46.0	39.7	35.3
5	2.20777	9.6	8.4	10.2	19.8	18.6	56.0	46.0	36.2	27.4
6	21.74464	33.9	27.4	11.4	45.3	38.8	60.0	50.0	14.7	11.2

PoE
[Tests with the antenna connected]



Final Result

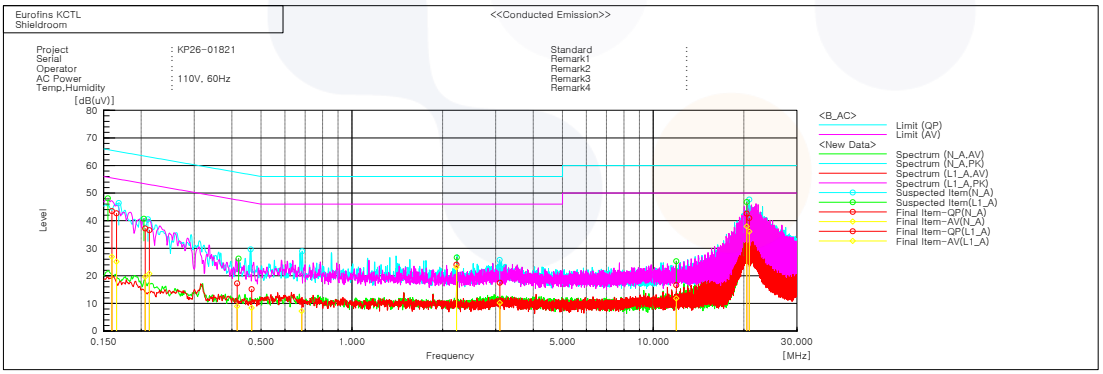
--- N_A Phase ---

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	0.21055	25.6	9.0	10.4	36.0	19.4	63.2	53.2	27.2	33.8
2	0.34325	12.2	0.2	10.5	22.7	10.7	59.1	49.1	36.4	38.4
3	0.54864	5.8	0.0	10.6	16.4	10.6	56.0	46.0	39.6	35.4
4	2.23049	13.0	12.0	10.3	23.3	22.3	56.0	46.0	32.7	23.7
5	13.560	68.2	63.3	11.0	79.2	74.3	60.0	50.0	-19.2	-24.3
6	17.12796	13.2	8.5	11.2	24.4	19.7	60.0	50.0	35.6	30.3

--- 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	0.15173	34.2	16.2	10.3	44.5	26.5	65.9	55.9	21.4	29.4
2	0.17498	30.8	14.0	10.6	41.4	24.6	64.7	54.7	23.3	30.1
3	0.28804	18.0	4.0	10.3	28.3	14.3	60.6	50.6	32.3	36.3
4	2.39863	3.2	-3.0	10.2	13.4	7.2	56.0	46.0	42.6	38.8
5	13.5601	68.6	63.7	11.1	79.7	74.8	60.0	50.0	-19.7	-24.8
6	17.85536	20.0	15.2	11.3	31.3	26.5	60.0	50.0	28.7	23.5

[Retest with a dummy load]



Final Result

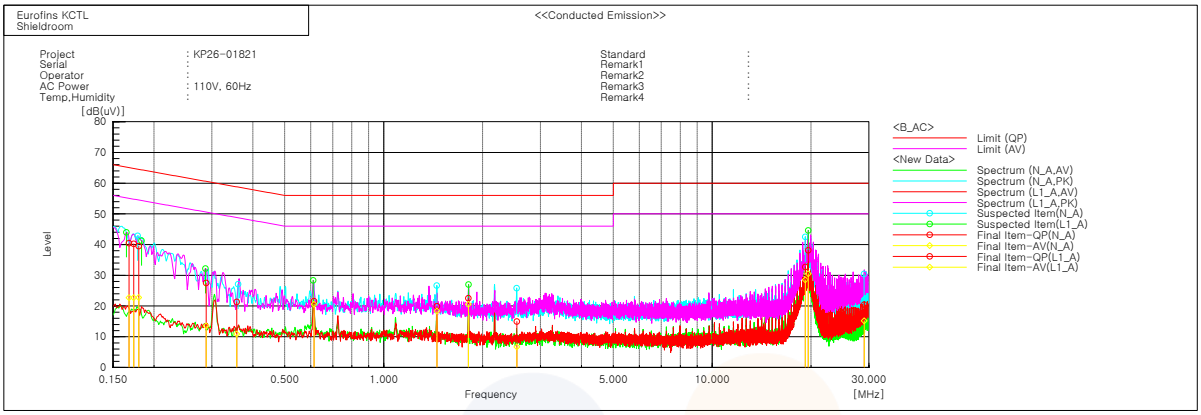
--- N_A Phase ---

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	0.16563	32.0	14.5	10.6	42.6	25.1	65.2	55.2	22.6	30.1
2	0.21267	26.2	10.4	10.4	36.6	20.8	63.1	53.1	26.5	32.3
3	0.46524	4.6	-2.2	10.6	15.2	8.4	56.6	46.6	41.4	38.2
4	0.68177	0.1	-3.3	10.5	10.6	7.2	56.0	46.0	45.4	38.8
5	3.09677	7.2	-0.1	10.3	17.5	10.2	56.0	46.0	38.5	35.8
6	20.83354	29.6	24.7	11.3	40.9	36.0	60.0	50.0	19.1	14.0

--- 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	0.15978	33.1	16.5	10.4	43.5	26.9	65.5	55.5	22.0	28.6
2	0.20618	26.8	9.2	10.4	37.2	19.6	63.4	53.4	26.2	33.8
3	0.41604	6.8	-1.6	10.5	17.3	8.9	57.5	47.5	40.2	38.6
4	2.22542	13.9	12.9	10.2	24.1	23.1	56.0	46.0	31.9	22.9
5	11.9259	5.6	0.8	11.0	16.6	11.8	60.0	50.0	43.4	38.2
6	20.44291	31.2	26.5	11.4	42.6	37.9	60.0	50.0	17.4	12.1

[Derivative model: BS3M-ODB]
Worst case: DC 24 V
[Tests with the antenna connected]



Final Result

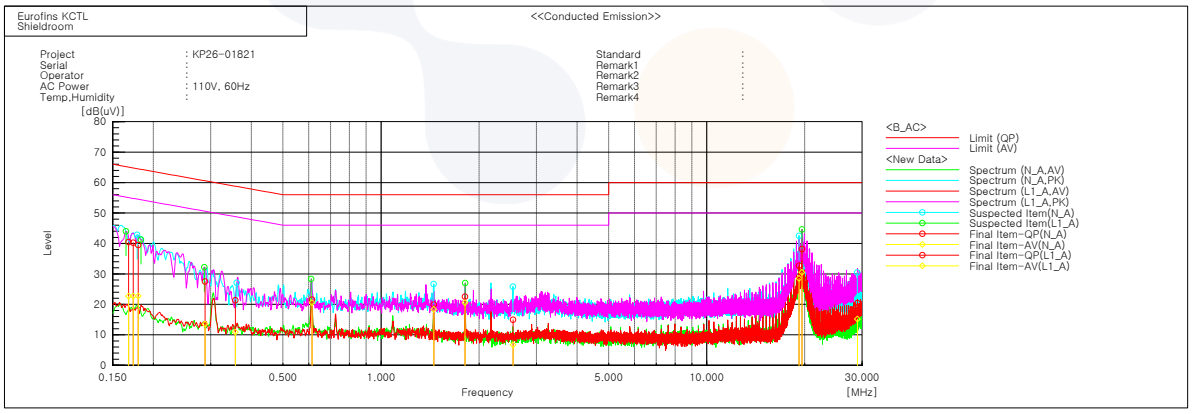
--- N_A Phase ---

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	0.17339	29.8	12.3	10.4	40.2	22.7	64.8	54.8	24.6	32.1
2	0.35708	11.2	0.8	10.1	21.3	10.9	58.8	48.8	37.5	37.9
3	1.45243	9.9	8.3	10.0	19.9	18.3	56.0	46.0	36.1	27.7
4	2.54455	5.0	-3.2	9.9	14.9	6.7	56.0	46.0	41.1	39.3
5	19.21794	21.5	17.3	11.2	32.7	28.5	60.0	50.0	27.3	21.5
6	29.01204	9.0	3.8	11.4	20.4	15.2	60.0	50.0	39.6	34.8

--- 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	0.1678	30.1	12.3	10.4	40.5	22.7	65.1	55.1	24.6	32.4
2	0.17957	29.1	12.3	10.4	39.5	22.7	64.5	54.5	25.0	31.8
3	0.28821	17.5	3.5	10.0	27.5	13.5	60.6	50.6	33.1	37.1
4	0.61357	11.3	10.3	10.2	21.5	20.5	56.0	46.0	34.5	25.5
5	1.81081	12.6	10.6	9.9	22.5	20.5	56.0	46.0	33.5	25.5
6	19.60319	26.9	19.3	11.2	38.1	30.5	60.0	50.0	21.9	19.5

[Retest with a dummy load]



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	0.17339	29.8	12.3	10.4	40.2	22.7	64.8	54.8	24.6	32.1
2	0.35708	11.2	0.8	10.1	21.3	10.9	58.8	48.8	37.5	37.9
3	1.45243	9.9	8.3	10.0	19.9	18.3	56.0	46.0	36.1	27.7
4	2.54455	5.0	-3.2	9.9	14.9	6.7	56.0	46.0	41.1	39.3
5	19.21794	21.5	17.3	11.2	32.7	28.5	60.0	50.0	27.3	21.5
6	29.01204	9.0	3.8	11.4	20.4	15.2	60.0	50.0	39.6	34.8

--- 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	0.1678	30.1	12.3	10.4	40.5	22.7	65.1	55.1	24.6	32.4
2	0.17957	29.1	12.3	10.4	39.5	22.7	64.5	54.5	25.0	31.8
3	0.28821	17.5	3.5	10.0	27.5	13.5	60.6	50.6	33.1	37.1
4	0.61357	11.3	10.3	10.2	21.5	20.5	56.0	46.0	34.5	25.5
5	1.81081	12.6	10.6	9.9	22.5	20.5	56.0	46.0	33.5	25.5
6	19.60319	26.9	19.3	11.2	38.1	30.5	60.0	50.0	21.9	19.5

7. Measurement equipment

Equipment Name	Manufacturer	Model No.	Serial No.	Next Cal. Date
Spectrum Analyzer	R&S	FSV40	100988	27.04.06
Amplifier	SONOMA INSTRUMENT	310N	421910	26.07.01
Bi-log Antenna	Teseq GmbH	CBL 6112D	61521	26.12.11
Loop Antenna	R&S	HFH2-Z2	100355	26.06.25
Signal & Spectrum Analyzer	R&S	FSV3030	1330.5000K30-101711-nf	26.11.03
Vector Signal Generator	R&S	SMBV100A	257566	26.07.01
Signal Generator	R&S	SMB100A	176206	27.01.15
AC/DC Power Supply	KIKUSUI	PCR2000W	GB001619	27.04.23
DC Power Supply	POWERCOM	DCP-50100A	20220610-01	27.01.16
Controller	INNCO SYSTEMS	CO3000	1442/54370322/P	N/A
Antenna Mast	INNCO SYSTEMS	MA4640-XP-ET	AM002	N/A
Turn Device	INNCO SYSTEMS	DS1200-S-1t	1	N/A
Temp & Humid Chamber	ESPEC CORP.	SH-661	92004048	26.09.29
TWO-LINE V-NETWORK	R&S	ENV216	101358	27.04.21
EMI TEST RECEIVER	R&S	ESCI3	101408	26.08.11

End of test report