



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.: KR25-SRF0145-A Page (1) of (20)	
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1. Client

- Name : WINNERCOM CO., LTD
- Address : 158-7, Golden root-ro, Juchon-myeon, Gimhae-si, Gyeongsangnam-do, KOREA
- Date of Receipt : 2025-07-14

2. Use of Report : Class II Permissive Change

3. Name of Product / Model : Touch door / MX5

4. Manufacturer / Country of Origin : WINNERCOM CO., LTD / Korea

5. FCC ID : 2AU37MX5

6. Date of Test : 2025-07-30 to 2025-07-31, 2025-08-20

7. Location of Test : ☒ Permanent Testing Lab ☐ On Site Testing
 (Address: 65, Sinwon-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16677, Korea)
 (Address: 42, Sinwon-ro 283beon-gil, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16676, Korea)

8. Test method used : FCC Part 15 Subpart C, 15.225

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

Affirmation	Tested by Name : Seung Kim (Signature)	Technical Manager Name : Harim Lee (Signature)
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2025-08-21

Eurofins KCTL Co.,Ltd.

As a test result of the sample which was submitted from the client, this report does not guarantee the whole product quality. This test report should not be used and copied without a written agreement by Eurofins KCTL Co.,Ltd.

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REPORT REVISION HISTORY

Date	Revision	Page No
2025-08-11	Originally issued	-
2025-08-21	Updated	6~13, 20

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Note. The report No. KR25-SRF0145 is superseded by the report No. KR25-SRF0145-A.

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

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1. General information

Client : WINNERCOM CO., LTD
 Address : 158-7, Golden root-ro, Juchon-myeon, Gimhae-si, Gyeongsangnam-do, KOREA
 Manufacturer : WINNERCOM CO., LTD
 Address : 158-7, Golden root-ro, Juchon-myeon, Gimhae-si, Gyeongsangnam-do, KOREA
 Laboratory : Eurofins KCTL Co.,Ltd.
 Address 1 : 65, Sinwon-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16677, Korea
 Address 2 : 42, Sinwon-ro 283beon-gil, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16676, 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 : Touch door
 Model : MX5
 Frequency range : 13.56 MHz (NFC)
 Modulation technique : ASK
 Number of channels : 1ch
 Power source : DC 12 V
 Antenna specification : PCB Loop antenna
 Antenna gain : N/A
 Software version : Ver 1.1
 Hardware version : Ver 1.1
 Test device serial No. : 2506056200A0027
 Operation temperature : -30 °C ~ 75 °C

2.1. Frequency/channel operations

This device contains the following capabilities: NFC

Frequency (MHz)
13.56

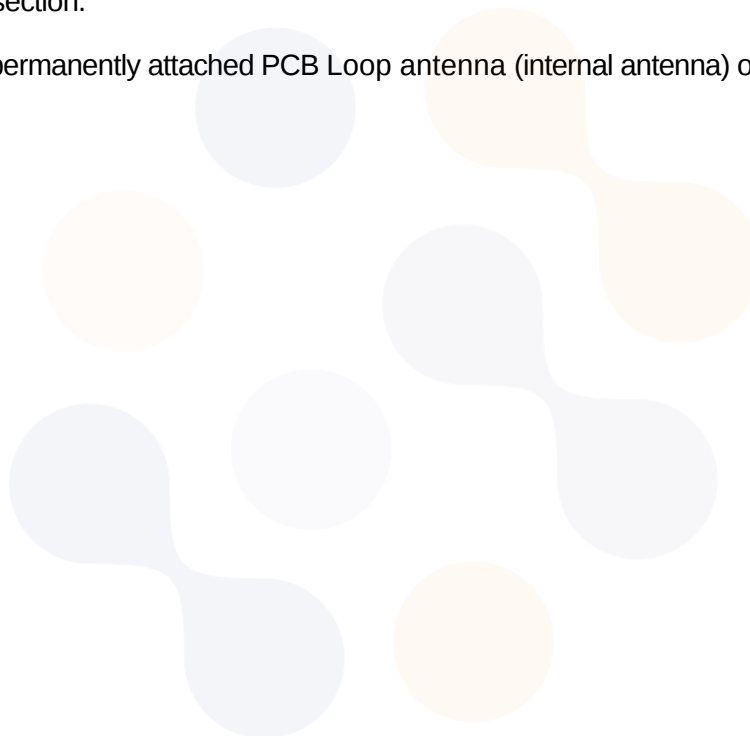
Table 2.1.1. NFC mode

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.

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



4. Summary of tests

FCC Part section(s)	Parameter	Test Condition	Test results
15.225(a)	In-band Fundamental Emission	Radiated	Pass
15.225(b), (c)	In-band Spurious Emission		Pass
15.225(d) 15.209	Out-of-band Spurious Emission		Pass
15.225(e)	Frequency Stability Tolerance	Conducted	Pass
15.215(c)	20 dB Bandwidth		Pass
15.207(a)	AC Conducted emissions		N/A ^(note7)

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

- These test items were performed. Please refer to original report.
 - FCC ID: 2AU37MX5
 - Report No. KR23-SRF0114-A issued on May. 16, 2023 by Eurofins KCTL Co.,Ltd.
 - (Refer to the document '(STC)Internal photos_MX5' for reasons for changes between the original devices.)
- All modes of operation and data rates were investigated. The test results shown in the following sections represent the worst case emissions.
- 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.
- The fundamental of the EUT was investigated in three orthogonal orientations X, Y, Z It was determined that **X** orientation was worst-case orientation. Therefore, all final radiated testing was performed with the EUT in **X** orientation
- The test procedure(s) in this report were performed in accordance as following.
 - ♦ ANSI C63.10-2013
- 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
- This test is not applicable because the EUT falls into the automotive device and it's not to be connected to the public utility (AC) power line

5. Measurement uncertainty

The measurement uncertainties shown below were calculated in accordance with the requirements of ANSI C63.10-2013.

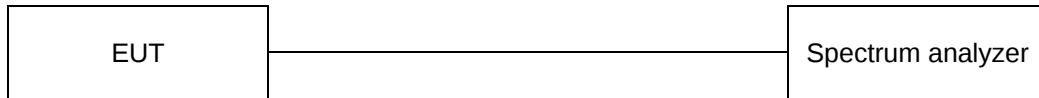
All measurement uncertainty values are shown with a coverage factor of $k=2$ to indicated a 95 % level of confidence. The measurement data shown herein meets or exceeds the U_{CISPR} measurement uncertainty values specified in CISPR 16-4-2 and thus, can be compared directly to specified limits to determine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

Parameter	Expanded uncertainty ($\pm$)	
Channel Bandwidth	0.1 %	
Occupied Bandwidth	0.1 %	
Radiated Emissions	Below 30 MHz	2.3 dB
	30 MHz ~ 1 000 MHz	2.6 dB
	1 000 MHz ~ 18 000 MHz	4.8 dB
	Above 18 000 MHz	4.8 dB

6. Test results

6.1. 20 dB 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.

Test procedure

ANSI C63.10 - Section 6.9.2

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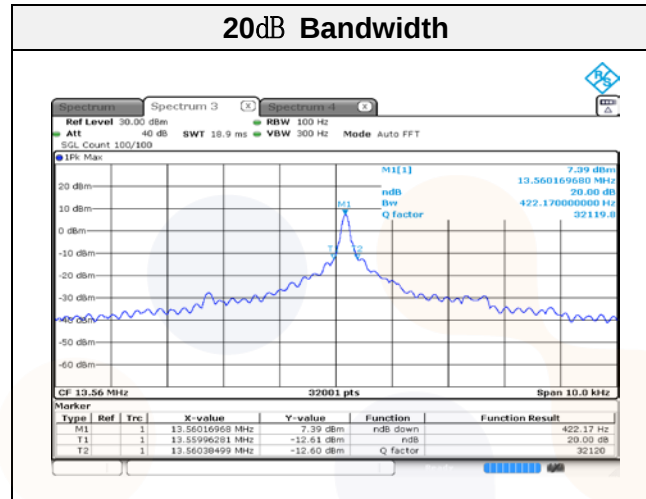
Test settings

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 $\geq 3 \times$ 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

Frequency [MHz]	20 dB Bandwidth [MHz]		Limit [MHz]	20 dB Bandwidth [kHz]
13.56	Lowest Frequency	13.560 0	13.110 0	0.42
	Highest Frequency	13.560 4	14.010 0	

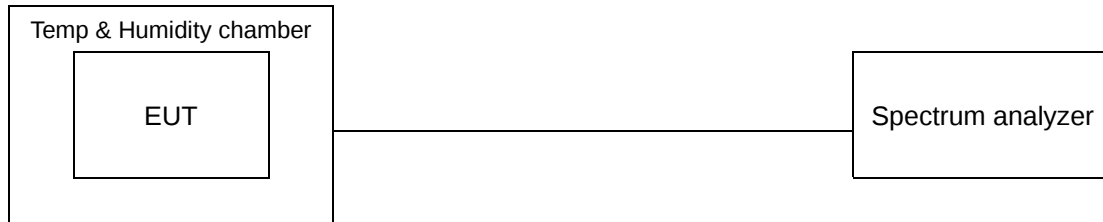


Note:

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), The frequency tolerance of the carrier signal shall be maintained within $\pm 0.01\%$ 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 C63.10-2013 - Section 6.8.1

Test results

Voltage	Voltage	TEMP	Maintaining time	Measure frequency	Frequency deviation	Deviation
[%]	[V]	[°C]		[Hz]	[Hz]	[%]
100	12.00	-30	Startup	13 560 184	-184.0	0.001 36
			2 minutes	13 560 179	-179.0	0.001 32
			5 minutes	13 560 188	-188.0	0.001 39
			10 minutes	13 560 152	-152.0	0.001 12
		-20	Startup	13 560 177	-177.0	0.001 31
			2 minutes	13 560 177	-177.0	0.001 31
			5 minutes	13 560 173	-173.0	0.001 28
			10 minutes	13 560 184	-184.0	0.001 36
		-10	Startup	13 560 176	-176.0	0.001 30
			2 minutes	13 560 184	-184.0	0.001 36
			5 minutes	13 560 178	-178.0	0.001 31
			10 minutes	13 560 152	-152.0	0.001 12
		0	Startup	13 560 150	-150.0	0.001 11
			2 minutes	13 560 154	-154.0	0.001 14
			5 minutes	13 560 149	-149.0	0.001 10
			10 minutes	13 560 161	-161.0	0.001 19
		10	Startup	13 560 176	-176.0	0.001 30
			2 minutes	13 560 153	-153.0	0.001 13
			5 minutes	13 560 171	-171.0	0.001 26
			10 minutes	13 560 169	-169.0	0.001 25
		20(Ref.)	Startup	13 560 169	-169.0	0.001 25
			2 minutes	13 560 172	-172.0	0.001 27
			5 minutes	13 560 174	-174.0	0.001 28
			10 minutes	13 560 169	-169.0	0.001 25
		30	Startup	13 560 161	-161.0	0.001 19
			2 minutes	13 560 172	-172.0	0.001 27
			5 minutes	13 560 157	-157.0	0.001 16
			10 minutes	13 560 171	-171.0	0.001 26
		40	Startup	13 560 154	-154.0	0.001 14
			2 minutes	13 560 180	-180.0	0.001 33
			5 minutes	13 560 165	-165.0	0.001 22
			10 minutes	13 560 159	-159.0	0.001 17
		50	Startup	13 560 173	-173.0	0.001 28
			2 minutes	13 560 180	-180.0	0.001 33
			5 minutes	13 560 174	-174.0	0.001 28
			10 minutes	13 560 180	-180.0	0.001 33
		60	Startup	13 560 173	-173.0	0.001 28
			2 minutes	13 560 152	-152.0	0.001 12
			5 minutes	13 560 167	-167.0	0.001 23
			10 minutes	13 560 181	-181.0	0.001 34
		70	Startup	13 560 173	-173.0	0.001 28
			2 minutes	13 560 172	-172.0	0.001 27
			5 minutes	13 560 169	-169.0	0.001 25
			10 minutes	13 560 186	-186.0	0.001 37
		75	Startup	13 560 173	-173.0	0.001 28
			2 minutes	13 560 182	-182.0	0.001 34
			5 minutes	13 560 161	-161.0	0.001 19
			10 minutes	13 560 182	-182.0	0.001 34

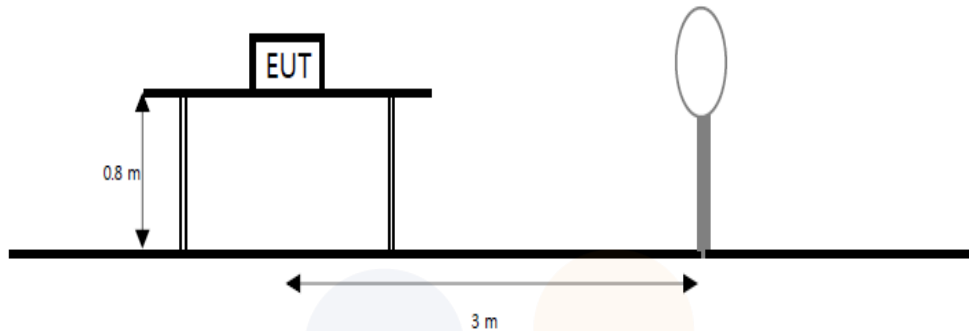
Voltage	Voltage	TEMP	Maintaining time	Measure frequency	Frequency deviation	Deviation
[%]	[V]	[°C]		[Hz]	[Hz]	[%]
85	10.20	20	Startup	13 560 177	-177.0	0.001 31
			2 minutes	13 560 172	-172.0	0.001 27
			5 minutes	13 560 157	-157.0	0.001 16
			10 minutes	13 560 186	-186.0	0.001 37
115	13.80	20	Startup	13 560 167	-167.0	0.001 23
			2 minutes	13 560 155	-155.0	0.001 14
			5 minutes	13 560 170	-170.0	0.001 25
			10 minutes	13 560 176	-176.0	0.001 30



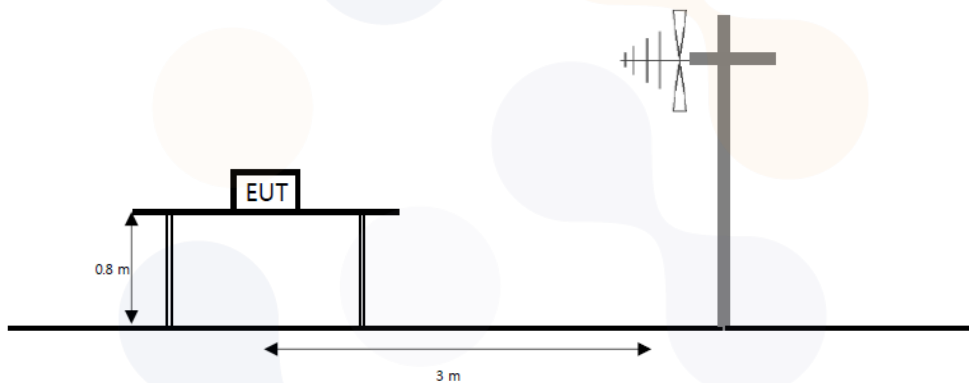
6.3. Radiated spurious emissions

Test setup

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



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



Limit

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

15.225 (b), Within the bands 13.410-13.553 MHz and 13.567-13.710 MHz, the field strength of any emissions shall not exceed 334 microvolts/meter at 30 meters.

15.225 (c), Within the bands 13.110-13.410 MHz and 13.710-14.010 MHz, the field strength of any emissions shall not exceed 106 microvolts/meter at 30 meters.

15.225 (d), The Field Strength of any emissions appearing outside of the 13.110-14.010 MHz band shall not exceed the general radiated emission limits in 15.209.

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

Test procedure

ANSI C63.10-2013 - 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 $\geq 3 \times$ RBW
4. Detector = peak
5. Sweep time = auto couple
6. Trace mode = max hold
7. Trace was allowed to stabilize

Table. RBW as a function of frequency

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

Notes:

1. $f < 30$ MHz, extrapolation factor of 40 dB/decade of distance. $F_d = 40 \log(D_m/D_s)$
 $f \geq 30$ MHz, extrapolation factor of 20 dB/decade of distance. $F_d = 20 \log(D_m/D_s)$
 Where:
 F_d = Distance factor in dB
 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 dB/decade) as specified in § 15.31(f)(2). Extrapolation Factor = $40 \log_{10}(30/3) = 40$ dB.
3. (dB) = Antenna factor(dB/m) + Cable loss(dB) + or Amp. gain(dB) - or F_d (dB)
4. Result = Reading + Cable loss + Amp gain + Ant. factor - Distance factor
5. The worst-case emissions are reported however emissions whose levels were not within 20 dB of respective limits were not reported.
6. All measurements were recorded using a spectrum analyzer employing a quasi-peak detector.
7. Below 30 MHz 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.
8. Face-on = Parallel, Face-off = Perpendicular
9. ¹⁾ Means restricted band.

Test results for fundamental

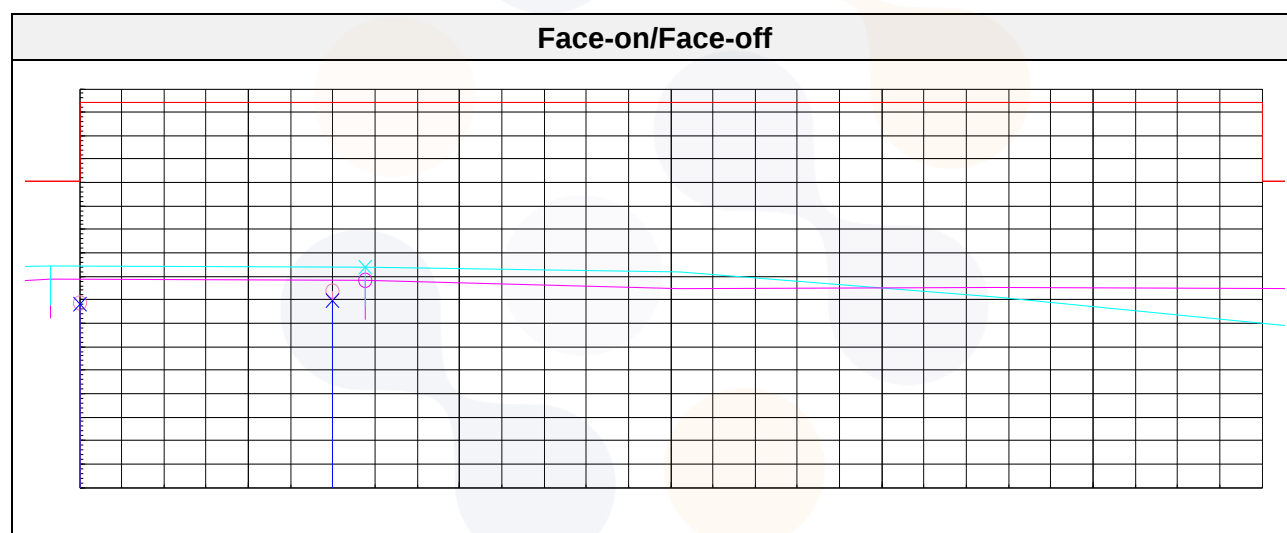
15.225 (a) 13.553-13.567 MHz

[Face-on]

Frequency	Reading	Antenna Factor	Amp. + Cable	Distance Factor	Result	Limit	Margin
(MHz)	(dB(μV))	(dB)	(dB)	(dB)	(dB($\mu V/m$))	(dB($\mu V/m$))	(dB)
Quasi peak data							
13.56	55.90	20.31	-32.54	40.00	3.67	84.00	80.33

[Face-off]

Frequency	Reading	Antenna Factor	Amp. + Cable	Distance Factor	Result	Limit	Margin
(MHz)	(dB(μV))	(dB)	(dB)	(dB)	(dB($\mu V/m$))	(dB($\mu V/m$))	(dB)
Quasi peak data							
13.56	51.90	20.31	-32.54	40.00	-0.33	84.00	84.33



Test results for in-band & out-band (9 kHz to 30 MHz)

15.225 (b,c) 13.110-14.010 MHz

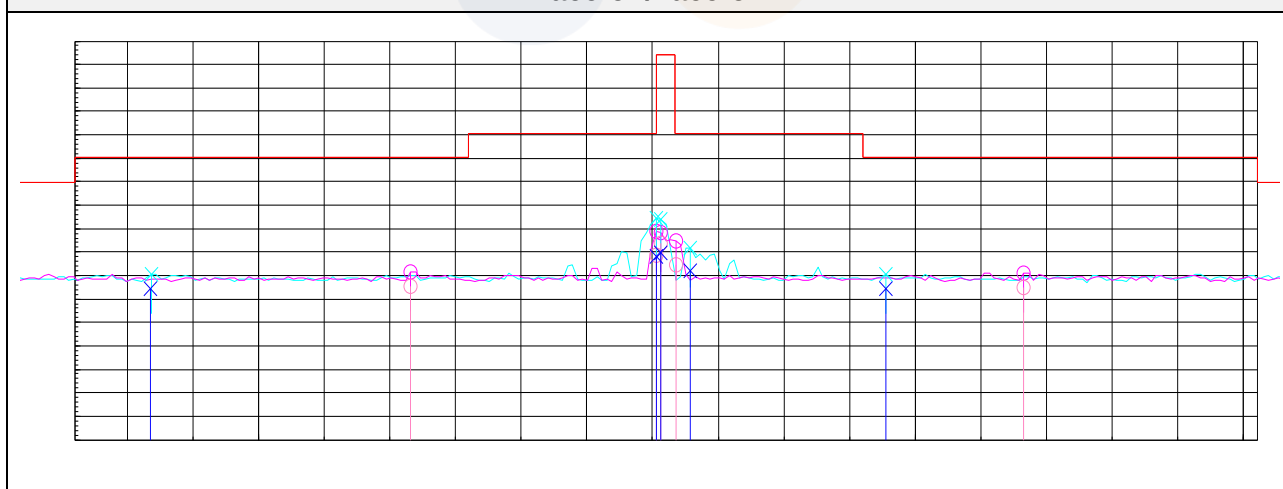
[Face-on]

Frequency	Reading	Antenna Factor	Amp. + Cable	Distance Factor	Result	Limit	Margin
(MHz)	(dB(μV))	(dB)	(dB)	(dB)	(dB(μV/m))	(dB(μV/m))	(dB)
Quasi peak data							
8.43	37.80	20.13	-32.51	40.00	-14.58	29.54	44.12
13.37	37.30	20.30	-32.54	40.00	-14.94	40.50	55.44
13.55	50.70	20.31	-32.54	40.00	-1.53	50.50	52.03
13.57	46.80	20.31	-32.54	40.00	-5.43	50.50	55.93
13.83	37.10	20.33	-32.55	40.00	-15.12	40.50	55.62
18.45	37.80	20.61	-32.53	40.00	-14.12	29.54	43.66

[Face-off]

Frequency	Reading	Antenna Factor	Amp. + Cable	Distance Factor	Result	Limit	Margin
(MHz)	(dB(μV))	(dB)	(dB)	(dB)	(dB(μV/m))	(dB(μV/m))	(dB)
Quasi peak data							
3.47	39.30	20.12	-32.71	40.00	-13.29	29.54	42.83
13.17	36.40	20.29	-32.54	40.00	-15.85	40.50	56.35
13.55	50.30	20.31	-32.54	40.00	-1.93	50.50	52.43
13.58	43.90	20.31	-32.54	40.00	-8.33	50.50	58.83
13.73	36.40	20.32	-32.55	40.00	-15.83	40.50	56.33
24.22	37.30	20.95	-32.38	40.00	-14.13	29.54	43.67

Face-on/Face-off



Test results (9 kHz to 30 MHz)

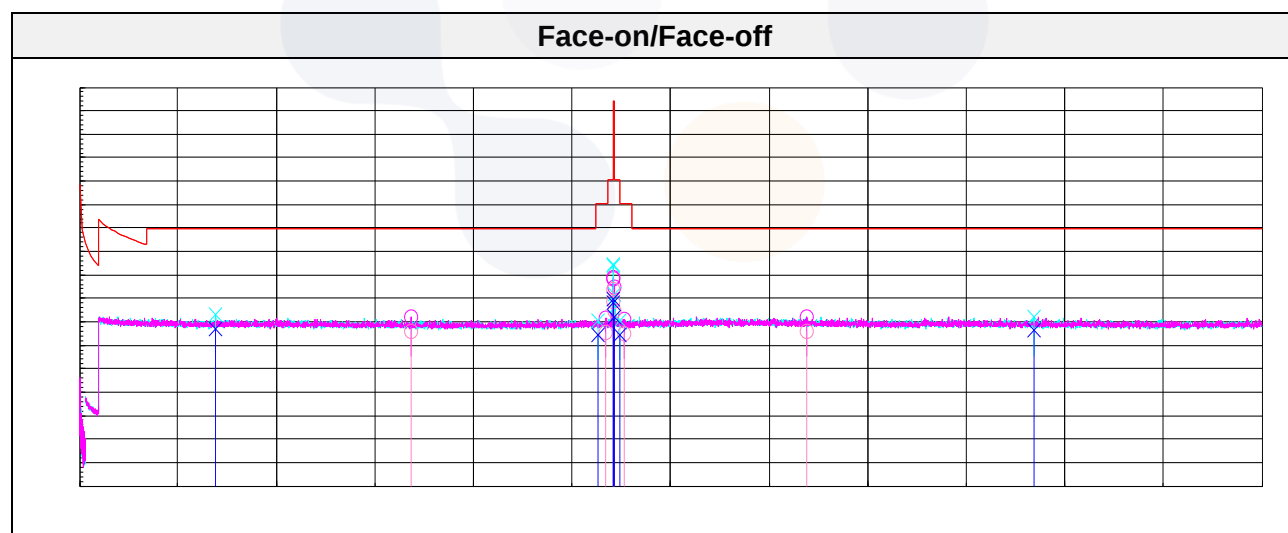
15.225 (d) 0.009-30 MHz

[Face-on]

Frequency	Reading	Antenna Factor	Amp. + Cable	Distance Factor	Result	Limit	Margin
(MHz)	(dB(μV))	(dB)	(dB)	(dB)	(dB(μV/m))	(dB(μV/m))	(dB)
Quasi peak data							
13.37	37.30	20.30	-32.54	40.00	-14.94	40.50	55.44
13.55	50.70	20.31	-32.54	40.00	-1.53	50.50	52.03
13.57	46.80	20.31	-32.54	40.00	-5.43	50.50	55.93
13.83	37.10	20.33	-32.55	40.00	-15.12	40.50	55.62

[Face-off]

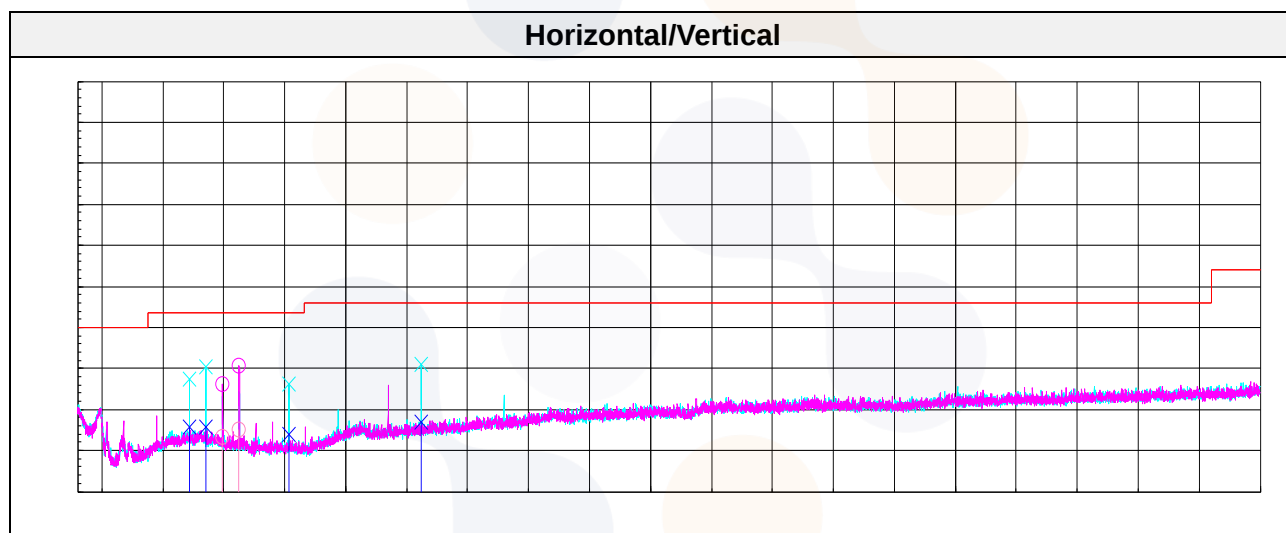
Frequency	Reading	Antenna Factor	Amp. + Cable	Distance Factor	Result	Limit	Margin
(MHz)	(dB(μV))	(dB)	(dB)	(dB)	(dB(μV/m))	(dB(μV/m))	(dB)
Quasi peak data							
13.17	36.40	20.29	-32.54	40.00	-15.85	40.50	56.35
13.55	50.30	20.31	-32.54	40.00	-1.93	50.50	52.43
13.58	43.90	20.31	-32.54	40.00	-8.33	50.50	58.83
13.73	36.40	20.32	-32.55	40.00	-15.83	40.50	56.33



Test results (Below 1 000 MHz)

15.225 (d) 30-1 000 MHz

Frequency	Pol.	Reading	Antenna Factor	Amp. + Cable	Distance Factor	Result	Limit	Margin
(MHz)	(V/H)	(dB(μV))	(dB)	(dB)	(dB)	(dB(μV/m))	(dB(μV/m))	(dB)
Quasi peak data								
122.03	V	29.50	18.00	-31.67	-	15.83	43.50	27.67
135.61 ¹⁾	V	29.70	17.70	-31.66	-	15.74	43.50	27.76
149.19	H	27.90	16.78	-31.51	-	13.17	43.50	30.33
162.65 ¹⁾	H	30.80	15.84	-31.46	-	15.18	43.50	28.32
203.39	V	29.90	15.27	-31.41	-	13.76	43.50	29.74
311.91	V	28.60	19.40	-31.16	-	16.84	46.00	29.16



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.: KR25-SRF0145-A Page (20) of (20)	
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7. Measurement equipment

Equipment Name	Manufacturer	Model No.	Serial No.	Next Cal. Date
Spectrum Analyzer	R&S	FSV40	100988	26.04.24
Amplifier	SONOMA INSTRUMENT	310N	421910	25.10.11
Bilog Antenna	Teseq GmbH	CBL 6112D	61521	26.12.11
Loop Antenna	R&S	HFH2-Z2	100355	26.06.25
DC Power Supply	POWERCOM	DCP-50100A	20220610-01	26.01.16
Vector Signal Generator	R&S	SMBV100A	257566	26.07.01
Spectrum Analyzer	R&S	FSV40	100989	25.10.10
Temp & Humid Chamber	Myeongseong R&P	CTHC-50P-DT	20150824-3	26.01.16
DC Power Supply	AGILENT	E3632A	MY40018781	26.04.23
Signal Generator	R&S	SMB100A	176206	26.01.17

End of test report