

TEST REPORT

CSA Group Korea Ltd. 155, Osan-Ro, Mohyeon-eup, Cheoin-Gu, Yongin-Si, Gyeonggi-Do 16885 Republic of Korea www.csagroup.org	Report No.: CSA-26-E-0171 Page (1) of (32)	
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1. Client

- Name : YG PLUS, INC.
- Address : 10, Gukjegeumyung-ro, Yeongdeungpo-gu, Seoul, Republic of Korea
- Date of Receipt : 2026-07-07

2. Use of Report : -

3. Name of Product / Model : BIGBANG OFFICIAL LIGHT STICK Ver.5 /
BIGBANG OFFICIAL LIGHT STICK Ver.5

4. Manufacturer / Country of Origin : TIX Inc. / China

5. Date of Test : 2026-07-15 to 2026-07-20

6. Location of Test : ☒ Permanent Testing Lab ☐ On Site Testing
(Address: 155, Osan-Ro, Mohyeon-eup, Cheoin-Gu, Yongin-Si, Gyeonggi-Do 16885 Republic of Korea)

7. Test method used : ETSI EN 301 489-1 V2.2.3:2019,
ETSI EN 301 489-17 V3.3.1:2024

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

Affirmation	Tested by	Technical Manager
	Name : Beomsu Lee (Signature)	Name : Jaehoon Jeong (Signature)

2026-08-12

CSA Group Korea Ltd.

As a test result of the sample which was submitted from the client, this report does not guarantee the whole product quality.
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REPORT REVISION HISTORY

Date	Revision	Page No
2026-08-12	Originally issued	-

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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. Applicant information

Applicant: YG PLUS, INC.
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Telephone: +82-10-9114-1498
Fax: +82-2-3140-4691
E-mail: yoonsj@ygmail.net
Contact name: Yoon Sook, Jo

Manufacturer: TIX Inc.
Address: 617ho, 416, Hwagok-ro, Gangseo-gu, Seoul, Republic of Korea
Telephone: +82-10-6377-0648
Fax: +82-2-783-9761
E-mail: tim.ryu@tixinc.kr
Contact name: Jae Ho, Yoo

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2. Laboratory information

Address

CSA Group Korea Ltd. (Yongin Lab.)

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Telephone Number: +82-2-6371-6600

3. Test system configuration

3.1 Operation environment

	Temperature	Humidity	Pressure
Chamber 10 m(RE)	20.5 °C	49.3 % R.H.	99.4 kPa
Chamber 3 m(RE)	20.8 °C	49.7 % R.H.	99.3 kPa
Shielded room(CE)	-	-	-

Test site

These testing items were performed following locations;

Test item	Test site
Radiated Emission (Below 1 GHz)	10 m Chamber
Radiated Emission (Above 1 GHz)	3 m Chamber
Electrostatic Discharge	Shielded Room (EMS)
Radiated, Radio-Frequency Electromagnetic Field	RS Chamber

3.2 Measurement Uncertainty

All measurements involve certain levels of uncertainties, especially in field of EMC.

The factors contributing to uncertainties are test receiver, cable loss, antenna factor calibration, Antenna directivity, antenna factor variation with height, antenna phase center variation, antenna frequency interpolation, measurement distance variation, site imperfection, mismatch, and system repeatability. Based on CISPR 16-4-2, the measurement uncertainty level with a 95% confidence level was applied.

Conducted disturbance measurements_AMN (Confidence level about 95 %, $k = 2$)	
Shielded Room	150 kHz ~ 30 MHz : 2.42 dB
Radiated disturbance measurement (Confidence level about 95 %, $k = 2$)	
10 m Chamber	30 MHz ~ 1 000 MHz : 4.76 dB
3 m Chamber	1 GHz ~ 6 GHz : 5.02 dB

3.3 Measurement Program

These test items were performed by software programs;

Test item	Measurement Program	Used
Conducted Emission	EMC32_V 8.54.0 (R&S)	☐
Radiated Emission	EMC32_V 10.60.15 (R&S)	☒
Harmonics current	NET.CONTROL_V 3.3.2 (EM TEST)	☐
Voltage fluctuations and flickers	NET.CONTROL_V 3.3.2 (EM TEST)	☐
Radiated, Radio-Frequency Electromagnetic Field	EMC32_V 10.60.20 (R&S)	☒
Electrical Fast Transient/Burst	IEC.CONTROL_V 9.2.5 (Ametek)	☒
Surge Transient	IEC.CONTROL_V 9.2.5 (Ametek)	☐
Conducted Susceptibility	ICD.CONTROL_V 6.2.5 (Ametek)	☐
Power Frequency Magnetic Field	IEC.CONTROL_V 9.2.5 (Ametek)	☐
Voltage Dips and Interruptions	IEC.CONTROL_V 9.2.5 (Ametek)	☐

4. Description of EUT

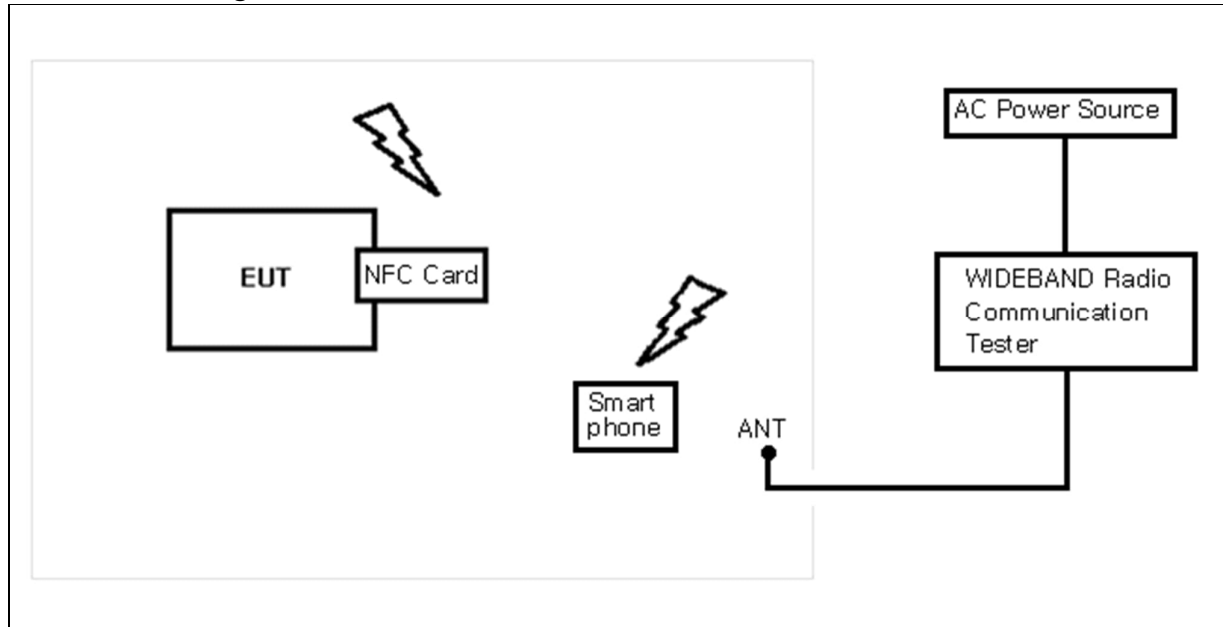
4.1 Product description

Type of product	BIGBANG OFFICIAL LIGHT STICK Ver.5
Model name (Basic)	BIGBANG OFFICIAL LIGHT STICK Ver.5
Model name (Variant)	-
Difference	-
Serial no	-
Testing voltage	DC 4.5 V (Battery)
Input rating	AAA Battery 3 EA (4.5 Vdc)
Internal clock frequency	Above 108 MHz
Note	-

4.2 Auxiliary equipment

Type	Model / Part #	S/N	Manufacturer
BIGBANG OFFICIAL LIGHT STICK Ver.5	BIGBANG OFFICIAL LIGHT STICK Ver.5	-	TIX Inc.
Smartphone	-	-	-
WIDEBAND Radio Communication Tester	CMW500	-	R&S
ANT 1	-	-	-

4.3 Test configuration



	Start		End		Cable	
	Name	I/O port	Name	I/O port	Length (m)	Spec.
1	EUT	-	Battery	-	Direct	-
2		-	NFC Card	-	Direct	-
3	Smartphone	-	-	-	-	-
4	WIDE BAND Radio Communication Tester	Power	AC Main	-	1.8	Unshielded
5		ANT	ANT 1	-	5.0	Shielded

4.4 Operating conditions

The EUT was configured as normal intended use.

No.	Test mode	Normal operating
#1	Wireless operation	The EUT was configured as shown in the setup diagram. The light_flutter_app was launched on a smartphone, and Bluetooth communication was maintained in the active state while monitoring the NFC card reading status during the conducted electromagnetic interference and immunity tests.

5. Summary of test results

5.1 Summary of EMI emission test results

Applied	Test items	Test method	Result
☐	Conducted Emission	ETSI EN 301 489-1 V2.2.3:2019, ETSI EN 301 489-17 V3.3.1:2024	N/A
☒	Radiated Emission		Pass
☐	Harmonics current		N/A
☐	Voltage fluctuations and flickers		N/A

5.2 Summary of immunity test results

Applied	Test items	Test method	Result
☒	Electrostatic Discharge	ETSI EN 301 489-1 V2.2.3:2019, ETSI EN 301 489-17 V3.3.1:2024	Pass
☒	Radiated, Radio-Frequency Electromagnetic Field		Pass
☐	Electrical Fast Transient/Burst		N/A
☐	Surge Transient		N/A
☐	Conducted Susceptibility		N/A
☐	Power Frequency Magnetic Field		N/A
☐	Voltage Dips and Interruptions		N/A

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5.3 Performance criteria

5.3.1 Performance criteria for EN 301 489-1

- **Performance criteria for continuous phenomena applied to transmitters and receivers ;**
During and after the test, the apparatus shall continue to operate as intended. No degradation of performance or loss of function is allowed below a permissible performance level specified by the manufacturer when the apparatus is used as intended. In some cases this permissible performance level may be replaced by a permissible loss of performance. During the test the EUT shall not unintentionally transmit or change its actual operating state and stored data.
If the minimum performance level or the permissible performance loss is not specified by the manufacturer,
then either of these may be deduced from the product description and documentation and what the user may reasonably expect from the apparatus if used as intended.

- **Performance criteria for transient phenomena applied to transmitters and receivers ;**
After the test, the apparatus shall continue to operate as intended. No degradation of performance or loss of function is allowed below a permissible performance level specified by the manufacturer, when the apparatus is used as intended. In some cases this permissible performance level may be replaced by a permissible loss of performance.
During the EMC exposure to an electromagnetic phenomenon, a degradation of performance is, however, allowed. No change of the actual mode of operation or stored data is allowed.
If the minimum performance level or the permissible performance loss is not specified by the manufacturer,
then either of these may be deduced from the product description and documentation and what the user may reasonably expect from the apparatus if used as intended.

- **Performance criteria for equipment which does not provide a continuous communication link ;**
The performance criteria specified by the manufacturer shall give the same degree of immunity protection as called for in clauses 4.3.1

- **Performance criteria for ancillary equipment tested on a stand alone basis ;**
The performance criteria specified by the manufacturer shall give the same degree of immunity protection as called for in clauses 4.3.1

5.3.2 Performance criteria for EN 301 489-17

- **General performance criteria**

The performance criteria are :

- performance criteria A for immunity tests with phenomena of a continuous nature ;
- performance criteria B for immunity tests with phenomena of a transient nature ;
- performance criteria C for immunity tests with power interruptions exceeding a certain time.

The equipment shall meet the minimum performance criteria as specified in the following clauses.

Performance table

Criteria	During test	After test (i.e. as a result of the application of the test)
A	Shall operate as intended. (see note). Shall be no loss of function. Shall be no unintentional transmissions.	Shall operate as intended. Shall be no degradation of performance. Shall be no loss of function. Shall be no loss of critical stored data.
B	May be loss of function.	Functions shall be self-recoverable. Shall operate as intended after recovering. Shall be no loss of critical stored data.
C	May be loss of function.	Functions shall be recoverable by the operator. Shall operate as intended after recovering. Shall be no loss of critical stored data
<p>NOTE: Operate as intended during the test shall be considered as:</p> <ul style="list-style-type: none"> • For equipment that supports a PER or FER, the minimum performance level shall be a PER or FER less than or equal to 10 %. • For equipment that does not support a PER or a FER, (e.g. audio equipment and equipment transmitting sporadic messages) the minimum performance level shall be no loss of the wireless transmission function needed for the intended use of the equipment. 		

- **Performance criteria for Continuous phenomena**

The performance criteria A shall apply.

Where the EUT is a transmitter in standby mode, unintentional transmission shall not occur during the test.

Where the EUT is a transceiver in receive mode, unintentional transmission shall not occur during the test.

- **Performance criteria for Transient phenomena**

The performance criteria B shall apply for transient phenomena, except for voltage dips greater than or equal to 100 ms, voltage interruptions of 5 000 ms duration, and surges of 10/700 µs for which performance criteria C shall apply. Where the EUT is a transmitter in standby mode, unintentional transmission shall not occur as result of the application of the test. Where the EUT is a transceiver in receive mode, unintentional transmission shall not occur as result of the application of the test.

6. Test results

6.1 Radiated Emissions

☒ Below 1 GHz

Testing voltage	DC 4.5 V (Battery)				
Test facility	10 m Chamber				
Test distance	10 m				
Date	2026. 07. 15				
Temperature (°C)	20.5 ± 2	Humidity (% R.H.)	49.3 ± 2	Pressure (kPa)	99.4 ± 1
Remarks	Pass				

☒ Above 1 GHz

Testing voltage	DC 4.5 V (Battery)				
Test facility	3 m Chamber				
Test distance	3 m				
Date	2026. 07. 16				
Temperature (°C)	20.8 ± 2	Humidity (% R.H.)	49.7 ± 2	Pressure (kPa)	99.3 ± 1
Remarks	Pass				

Of those emissions above ($L - 20$ dB), where L is the limit level in logarithmic units, record at least the emission levels and the frequencies of the six highest emissions.

The following data lists the significant emission frequencies, measured levels, correction factors (for antenna and cables), orientation of table, polarization and height of antenna, the corrected reading, the limit, and the amount of margin. All measurements were taken utilizing quasi-peak detection unless stated otherwise.

Measurements were performed at an antenna to EUT distance of 10 or 3 meters and elevated between 1 and 4 meters. Both vertical and horizontal antenna polarizations were measured.

Below 1 GHz, peak detector function mode for prescan was used with resolution bandwidth of 120 kHz and a video bandwidth of 300 kHz and sweep method.

The sweep time for prescan set below 200 ms up and final measurement with quasi-peak detector evaluated for suspected frequencies points, which are detected from prescan measurement.

Final measurements consisted of 3 steps.

First step, frequency fine tuning to find exact emission frequency.

Second step, rechecking to search for maximum height and azimuth for interference from EUT In final

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step, there are conducted measuring with quasi-peak detector for points which are detected from 1st step & 2nd step.

6.1.1 Limits of radiated emissions measurement

☒ Limits below 1 GHz

Frequency [MHz]	Resolution Bandwidth [kHz]	Class A Limits (dB(μV/m)) @ 10 m	Class B Limits (dB(μV/m)) @ 10 m
30 ~ 230	120	40	30
230 ~ 1 000	120	47	37

☒ Limits above 1 GHz

Frequency [GHz]	Resolution Bandwidth [MHz]	Class A @ 3 m		Class B @ 3 m	
		Average limit (dB(μV/m))	Peak limit (dB(μV/m))	Average limit (dB(μV/m))	Peak limit (dB(μV/m))
1 ~ 6	1	60	80	54	74

Note - The lower limit applies at the transition frequency.

Measurements within 20 dB of the limit were then maximized by adjusting turntable position.

Final measurements were made using an C/Average detector.

Results checked manually and points close to the limit line were re-measured.

6.1.2 Used equipments

Equipment	Model no.	Serial no.	Manufacturer	Calibration Date	Used
EMI Test Receiver	ESR3	102931	ROHDE&SCHWARZ	2026.03.27	☒
Signal Conditioning Unit	SCU 01	10030	ROHDE&SCHWARZ	2026.03.27	☒
Attenuator	PE7390-6	-	PASTERNAK	2026.04.22	☒
TRILOG Broadband Test Antenna	VULB 9163	1027	SCHWARZBECK	2026.04.27	☒
ANTENNA MAST (LEFT)	MA4000-EP	-	innco systems GmbH	-	☒
Turn Table	DT3000-3T	-	innco systems GmbH	-	☒
EMI TEST RECEIVER	ESW44	103091	ROHDE&SCHWARZ	2026.04.22	☒
Amplifier	TK-PA18H	240132-L	TESTEK	2026.04.22	☒
DOUBLE RIDGED HORN ANTENNA	HF907	100197	ROHDE&SCHWARZ	2026.04.23	☒
TILT ANTENNA MAST	MA4640-XP-EP	-	innco systems GmbH	-	☒
Turn Table	DT2000-2t	-	innco systems GmbH	-	☒

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6.1.3 Sample calculation

The field strength is calculated adding the antenna Factor, cable loss and, Antenna pad adding, subtracting the amplifier gain from the measured reading.

The sample calculation is as follow:

- Below 1 GHz

$$\text{Result QP[dB}\mu\text{V/m]} = \text{Reading QP[dB}(\mu\text{V)}] + \text{c.f(Antenna Factor [dB/m]} + \text{Cable Loss [dB]} \\ + 6 \text{ dB Att [dB]} - \text{Amp Gain [dB]}$$

Result QP : Result, Reading QP : Meter Reading, c.f : Correction For

Margin (QP) = Limit (QP) – Results (QP)

Note1) QP : Abbreviation of Quasi-Peak

- Above 1 GHz

$$\text{Result PK/CAV [dB}\mu\text{V/m]} = \text{Reading PK/CAV [dB}(\mu\text{V)}] + \text{c.f(Antenna Factor [dB/m]} + \text{Cable Loss [dB]} \\ - \text{Amp Gain [dB]}$$

Result PK/CAV : Result, Reading PK/CAV : Meter Reading, c.f : Correction Factor

Margin (PK/CAV) = Limit (QP/CAV) – Results (QP/CAV)

Note1) PK : Abbreviation of Peak

Note2) CAV : Abbreviation of CISPR Average

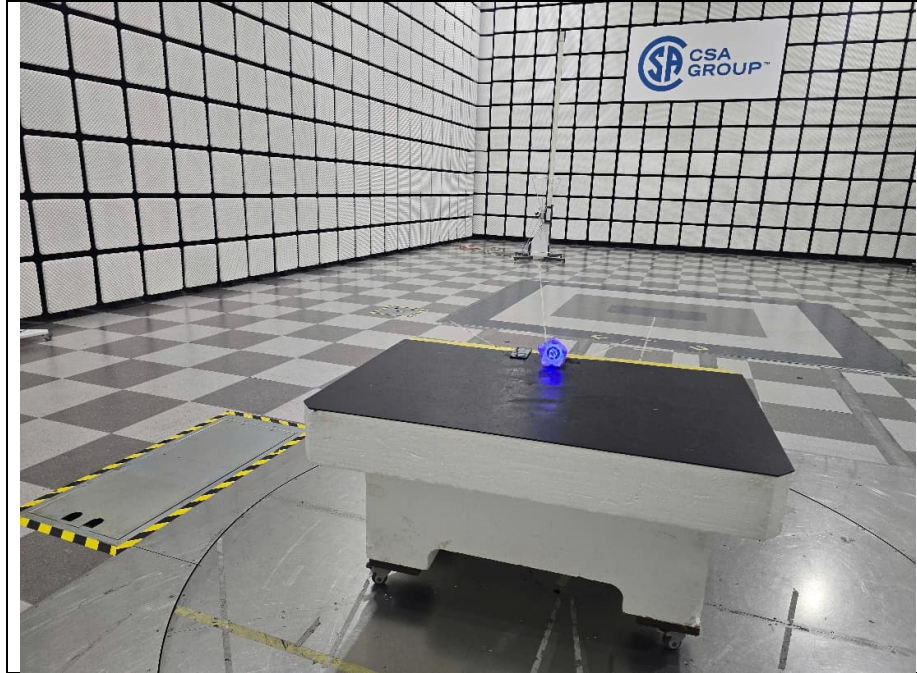
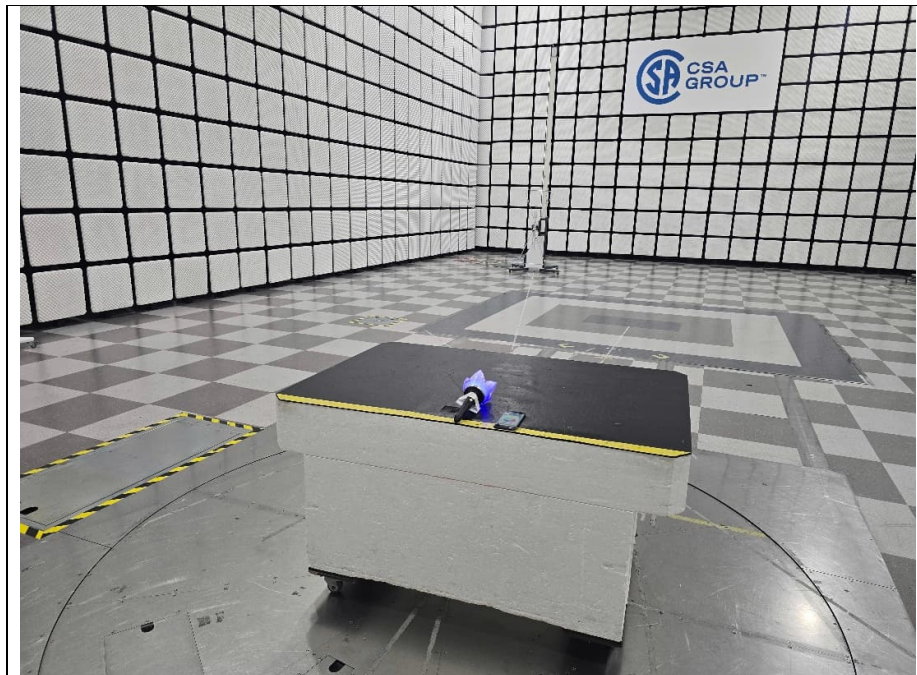
If Reading is 30 dB μ V/m, Antenna Factor 12 dB/m, Cable Loss 5 dB, Attenuator 6 dB,
Amp Gain 35 dB

The result is

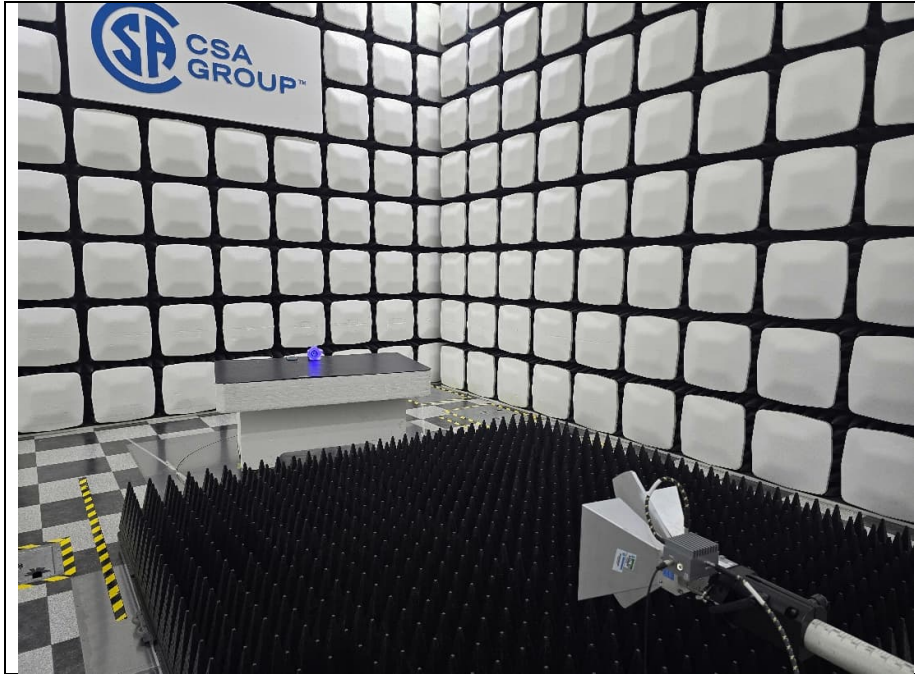
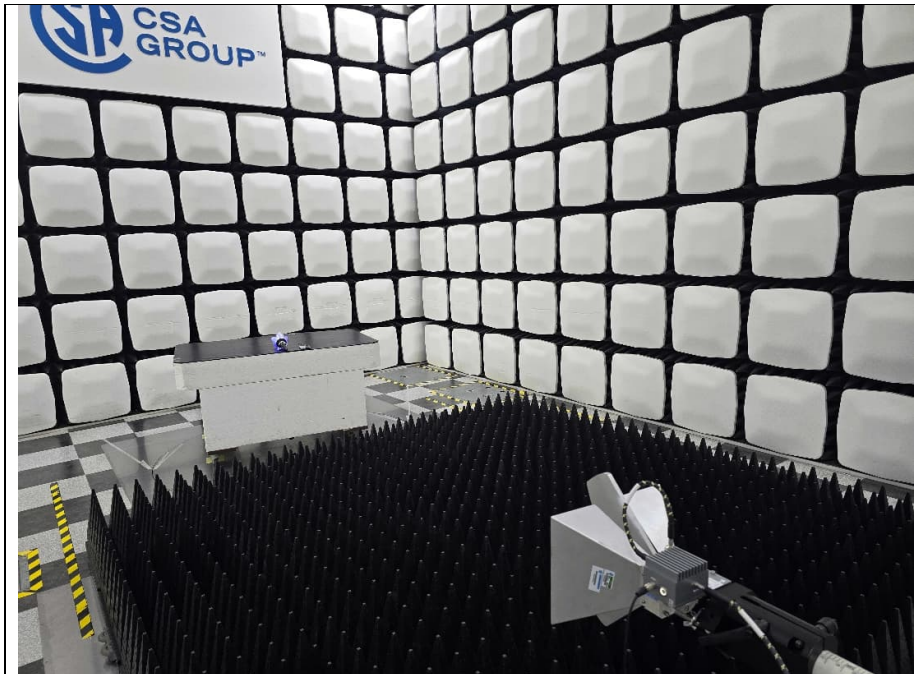
$$30 + 12 + 5 + 6 - 35 = 18 \text{ dB}\mu\text{V/m}$$

6.1.4 Photographs of test setup

* Below 1 GHz



* Above 1 GHz

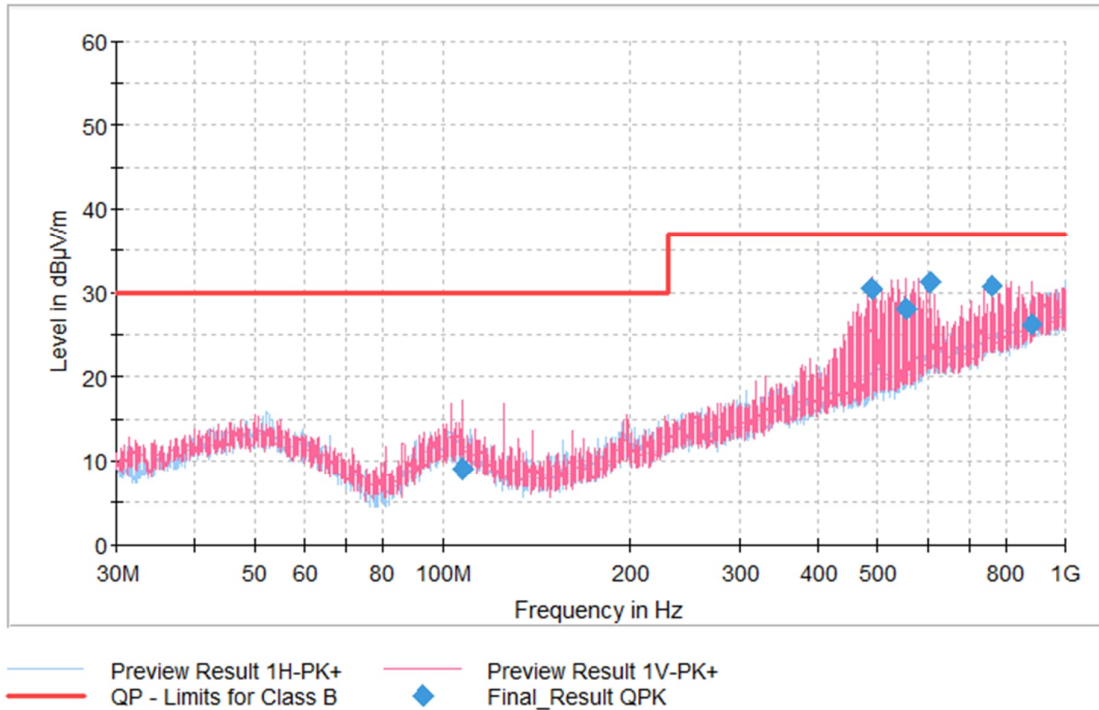


6.1.5 adiated emissions measurement result

* Graph and Data

* 30 MHz ~ 1 GHz

[Test #1]



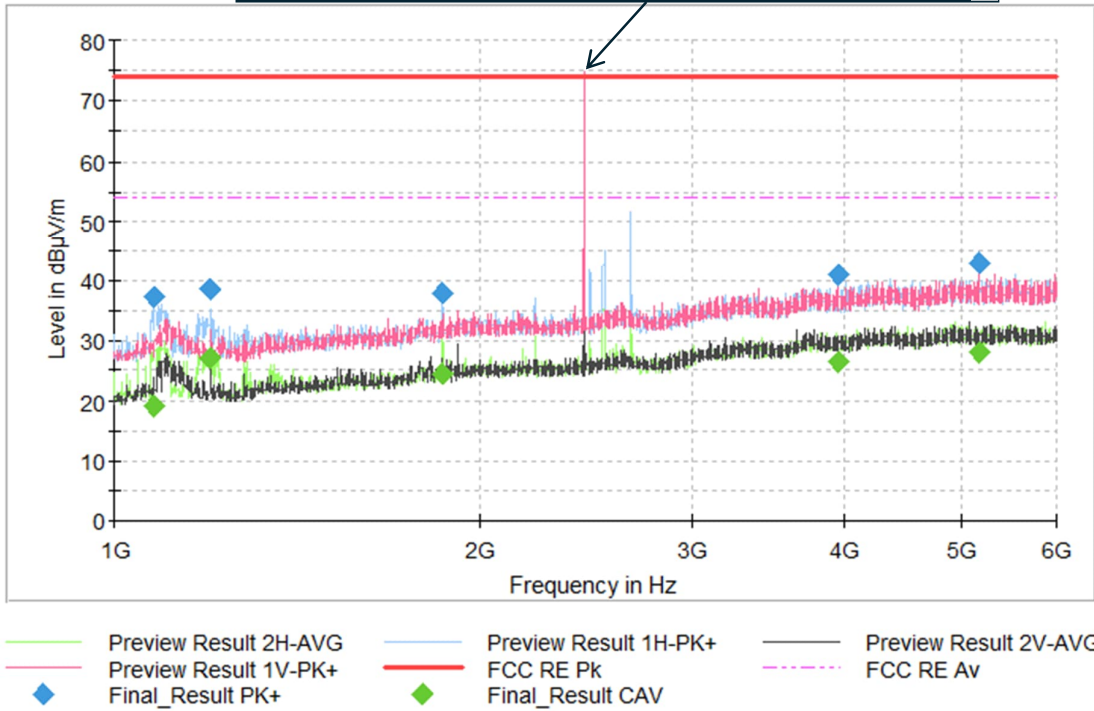
Final_Result

Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	PoI	Azimuth (deg)	Corr. (dB/m)
107.470667	9.08	30.00	20.92	15000.0	120.000	130.0	V	57.0	-21.6
488.066333	30.54	37.00	6.46	15000.0	120.000	314.0	V	114.0	-10.0
553.412000	28.16	37.00	8.84	15000.0	120.000	297.0	V	297.0	-8.1
604.240000	31.25	37.00	5.75	15000.0	120.000	270.0	V	185.0	-6.2
760.895000	30.79	37.00	6.21	15000.0	120.000	400.0	V	124.0	-3.3
883.729333	26.08	37.00	10.92	15000.0	120.000	100.0	V	98.0	-1.8

* 1 GHz ~ 6 GHz

[Test #1]

This frequency is the fundamental and is not apply to the limit



Final_Result

Frequency (MHz)	MaxPeak (dBμV/m)	CAverage (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1079.900000	---	19.14	54.00	34.86	15000.0	1000.000	99.9	H	35.0	-20.6
1079.900000	37.43	---	74.00	36.57	15000.0	1000.000	99.9	H	35.0	-20.6
1199.750000	38.83	---	74.00	35.17	15000.0	1000.000	99.9	H	304.0	-21.1
1199.750000	---	27.21	54.00	26.79	15000.0	1000.000	99.9	H	304.0	-21.1
1866.150000	37.95	---	74.00	36.05	15000.0	1000.000	99.9	H	57.0	-17.5
1866.150000	---	24.51	54.00	29.49	15000.0	1000.000	99.9	H	57.0	-17.5
3955.450000	---	26.60	54.00	27.40	15000.0	1000.000	99.9	V	224.0	-9.7
3955.450000	40.88	---	74.00	33.12	15000.0	1000.000	99.9	V	224.0	-9.7
5182.000000	---	28.20	54.00	25.80	15000.0	1000.000	99.9	V	224.0	-5.4
5182.000000	43.05	---	74.00	30.95	15000.0	1000.000	99.9	V	224.0	-5.4
6159.500000	44.12	---	74.00	29.88	15000.0	1000.000	99.9	V	320.0	-3.3
6159.500000	---	29.72	54.00	24.28	15000.0	1000.000	99.9	V	320.0	-3.3

6.2 Electrostatic Discharge

Test level	☐ Contact: ± 4 kV ☒ Air: ± 2 kV, ± 4 kV, ± 8 kV ☒ HCP: ± 4 kV ☒ VCP: ± 4 kV				
Discharge impedance	330 Ω / 150 pF				
Number of discharge (Each polarity)	☒ Contact: 10 ☒ Air: 10 ☒ HCP/VCP: 10				
Interval between discharges	1 s				
Testing voltage	DC 4.5 V (Battery)				
Test facility	Shielded room (EMS)				
Date	2026. 07. 20				
Temperature ($^{\circ}$ C)	19.8 $\pm$ 2	Humidity (% R.H.)	49.6 $\pm$ 2	Pressure (kPa)	99.2 $\pm$ 1
Remarks	Pass - A: There was no change of operation status during above testing.				

6.2.1 Measurement procedure

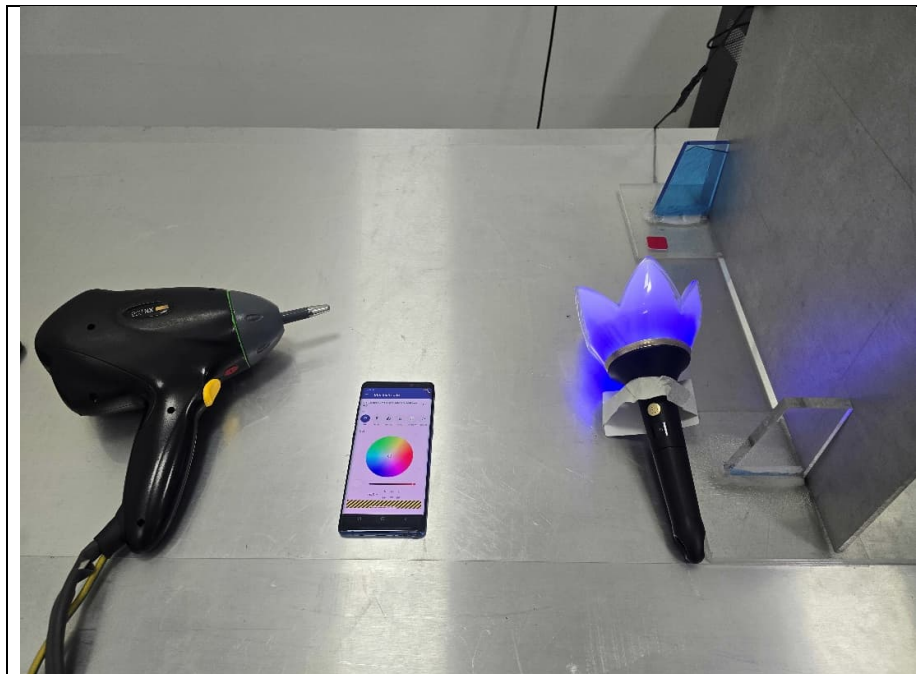
A ground reference plane was located on the floor, and connected to earth via a low Impedance connection. The return cable of the ESD generator was connected to the reference plane.

In case of floor standing equipment, EUT was placed on the reference plane on 0.1 m of insulating Support. In case of table top equipment, EUT was placed on a wooden table 0.8 m above the reference grounded floor. A horizontal coupling plane (HCP) was placed on the table, and Connected to the reference plane via a 470 $k\Omega$ resistor located in each end (0.5 mm insulating support between EUT and HCP). In both cases a vertical coupling plane(VCP) OF 0.5 X 0.5 m was located 0.1 m from the EUT's sides. The VCP was connected to the reference plane in the same matter as the HCP.

6.2.2 Used equipments

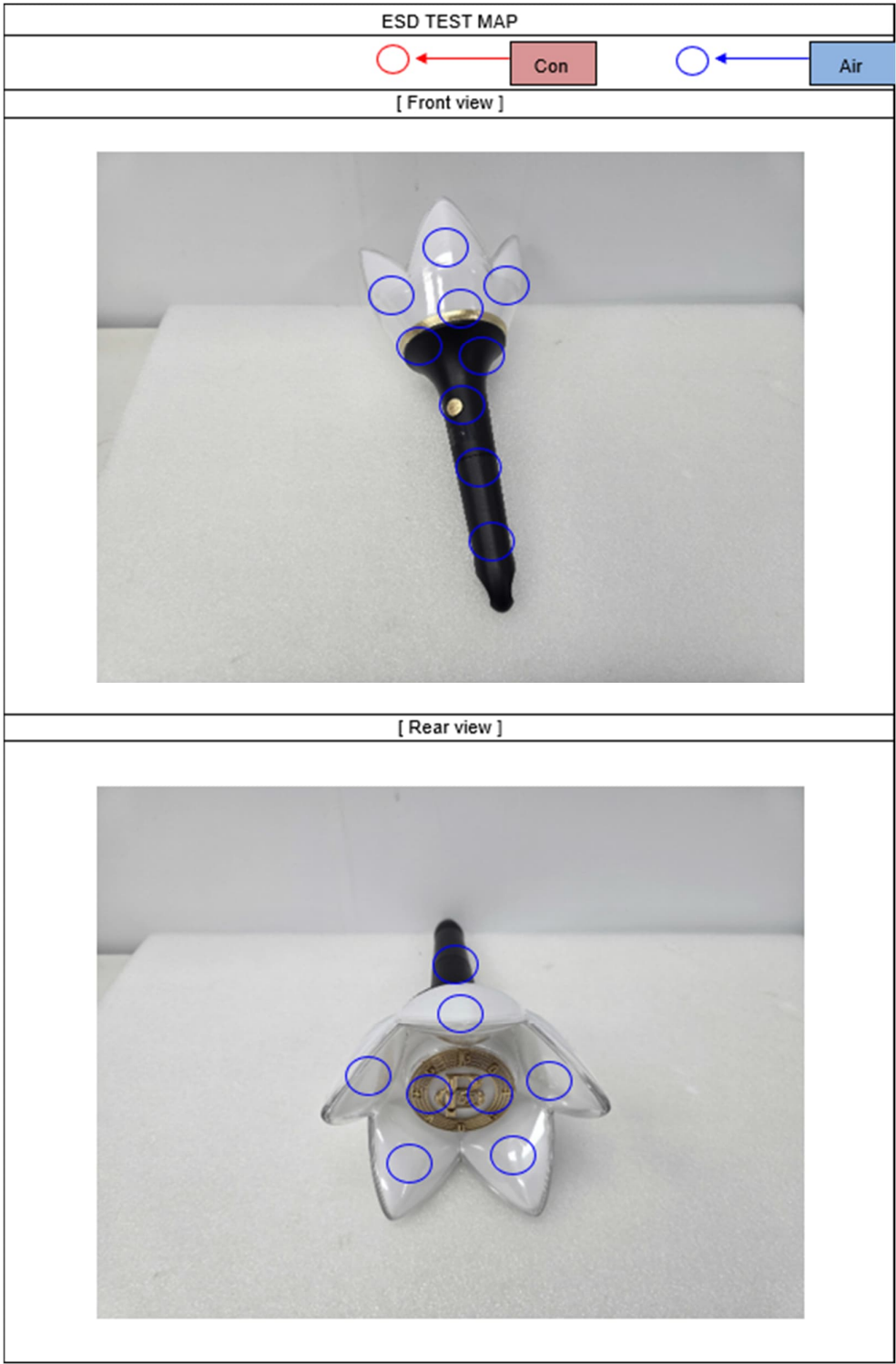
Equipment	Model No.	Serial No.	Manufacturer	Calibration Date	Used
ESD SIMULATOR	ESD NX30	22946	EM TEST	2026.04.28	☒
HCP	-	-	-	-	☒
VCP	-	-	-	-	☒

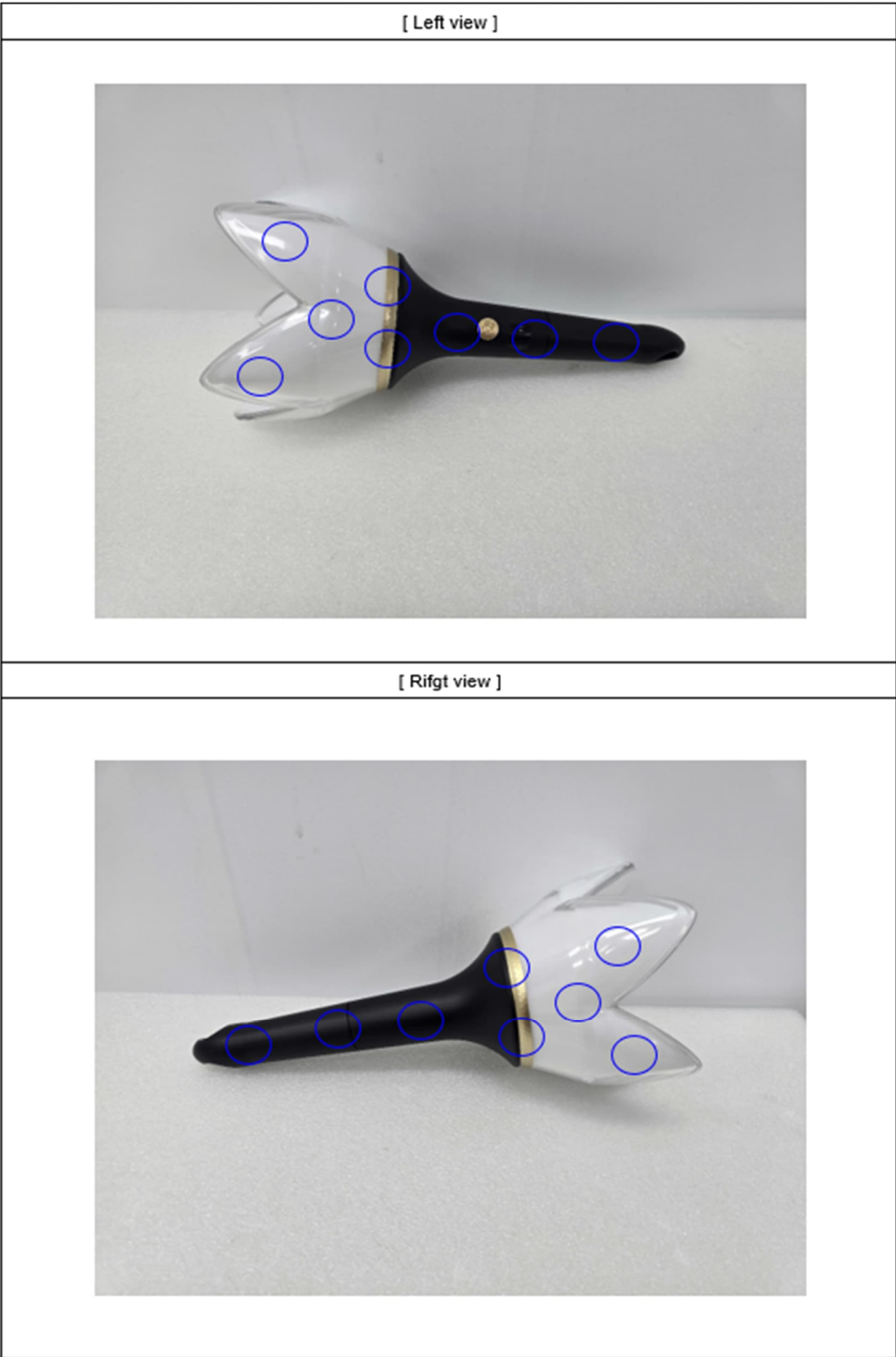
6.2.3 Photographs of test setup



6.2.4 Measurement result

Electrostatic Discharge (Test Point)





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* HCP/VCP discharge

[Test #1]

Location (EUT)	Applied level (±)	Result
HCP (All 4 sides)	± 4 kV	A
VCP (All 4 sides)	± 4 kV	A

* Contact discharge

Location (EUT)	Applied level (±)	Result
-	-	-

* Air discharge

[Test #1]

Location (EUT)	Applied level (±)	Result
Enclosure (Non-Metal)	± 2 kV, ± 4 kV, ± 8 kV	A

6.3 Radiated, Radio-Frequency Electromagnetic Field

Frequency	80 MHz ~ 6 GHz				
Test Level & Modulation	3 V/m, 80 % AM (1 kHz)				
Frequency Step	1 % step				
Dwell time	1 s				
Distance	3 m from EUT to tip of antenna				
Testing Voltage	DC 4.5 V (Battery)				
Test facility	RS Chamber				
Date	2026. 07. 17				
Temperature (°C)	20.2 ± 2	Humidity (% R.H.)	50.0 ± 2	Pressure (kPa)	99.4 ± 1
Remarks	Pass - CT/CR(A): There was no change of operation status during above testing.				

6.3.1 Measurement procedure

The test was performed at 3 m full anechoic chamber.

For floor standing equipment, the EUT was standing on the floor.

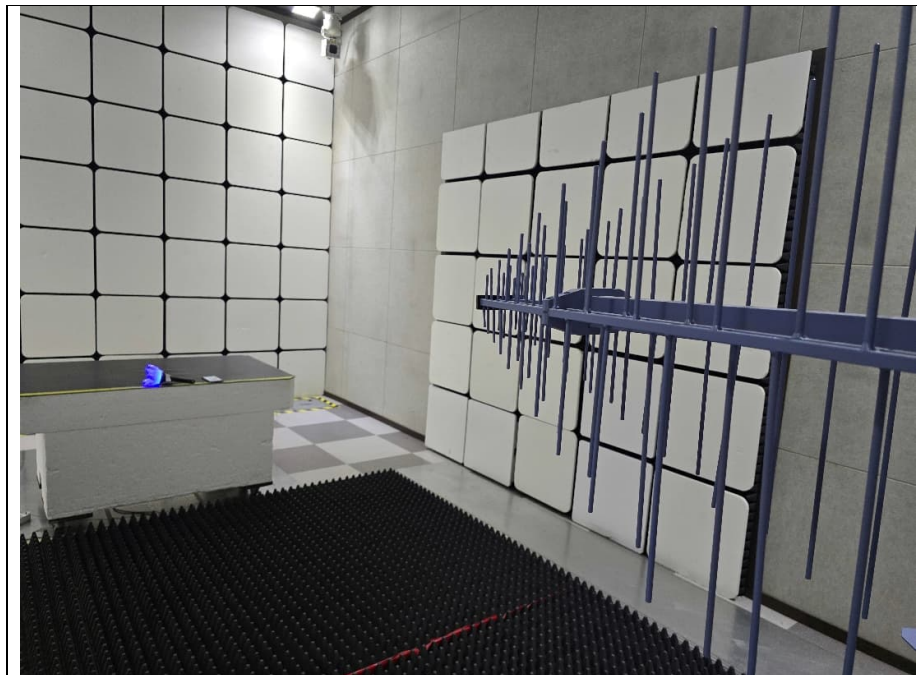
For tabletop equipment, the EUT was located on a wooden table 0.8 m above the floor.

The EUT was tested all sides, horizontal and vertical polarization.

6.3.2 Used equipments

Equipment	Model no.	Serial no.	Manufacturer	Calibration Date	Used
SIGNAL GENERATOR	SMB 100A	103440	ROHDE & SCHWARZ	2026.04.21	☒
POWER METER	NRP	101371	ROHDE & SCHWARZ	2026.04.21	☒
AVG POWER SENSOR	NRP-Z91	100965	ROHDE & SCHWARZ	2026.04.21	☒
AVG POWER SENSOR	NRP-Z91	100966	ROHDE & SCHWARZ	2026.04.21	☒
EMS- ANTENNA	HL046	100054	ROHDE & SCHWARZ	-	☒
HORN ANTENNA	STLP 9149	9149-064	SCHWARZBECK	-	☒
Power Amplifier	BLWA 0810-160/100D	107808A	BONN Elektronik	-	☒
Power Amplifier	BLMA 1060-100/50D	107808B	BONN Elektronik	-	☒
AUTO POLARISATION SWITCH	-	-	ROHDE & SCHWARZ	-	☒

6.3.3 Photographs of test setup



6.3.4 Measurement result

* Enclosure

[Test #1]

Location (EUT)	Antenna polarization	Result
Front side	Horizontal	CT/CR(A)
	Vertical	CT/CR(A)
Rear side	Horizontal	CT/CR(A)
	Vertical	CT/CR(A)
Left side	Horizontal	CT/CR(A)
	Vertical	CT/CR(A)
Right side	Horizontal	CT/CR(A)
	Vertical	CT/CR(A)

7. EUT photographs

Front View



Rear View



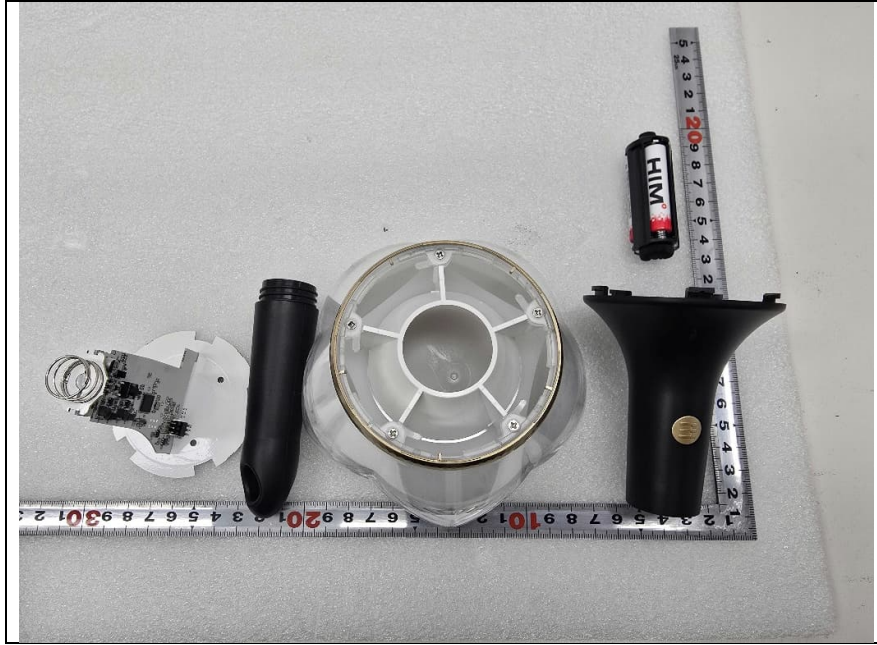
Left View



Right View



Inside View



- END.