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Main: +82-31-322-6767, Fax: +82-31-322-6768

Test report No.:
TREFCC24-0075

FCC SUPPLIER'S DECLARATION OF CONFORMITY TEST REPORT

Test report No. : TREFCC24-0075
Applicant : DAS Co., Ltd
Address : 61, Jipyeongseonsandan 3-gil, Gimje-si, Jeollabuk-do, Korea
Manufacturer : DAS Co., Ltd
Address : 61, Jipyeongseonsandan 3-gil, Gimje-si, Jeollabuk-do, Korea
Type of equipment : Emergency Stop Transmitter
Model name : QWI045
Variant model name : Not applicable
Date of incoming : September 20, 2024
Date of test : October 16, 2024
Date of issue : October 30, 2024
Test standards : ANSI C 63.4-2014
47 CFR Part 15 Subpart A
Type of device : All other devices
Test Result : ☒ Complied ☐ Not Complied

Summary

The test results presented in this test report are limited only to the sample supplied by applicant and the use of this test report is inhibited other than its purpose. This test report shall not be reproduced except in full, without the written approval of Lab-T, Inc.

Prepared by

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Approved by

CheolHo Lee / Technical manager

If this test report is required to confirmation of authenticity, please contact to info@lab-t.net
This test report is not related to KOLAS.

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1. Revision history

Issued report No.	Version	Issued date	Revision
TREFCC24-0075	Rev. 00	October 30, 2024	Original

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2. Information of test laboratory

Corporate name	Lab-T, Inc.
Representative	Duke (Jongyoung) Kim
Address	2182-42, Baegok-daero, Mohyeon-eup, Cheoin-gu, Yongin-si
	Gyeonggi-do 17036, Korea (Republic of)
Telephone	+82-31-322-6767
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E-mail	info@lab-t.net

Test Site	Building L, A, T
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	Yongin-si, Gyeonggi-do 17036, Korea (Republic of)

* Lab-T, Inc. has been accredited / filed / authorized by the agencies listed in the following table.

Certificate	Nation	Agency	Code	Mark
Accreditation	Korea	KOLAS	KT703	
Site filing	USA	FCC	KR0159	
	Japan	VCCI	R-14282, C-14764 T-12276, G-10886 G-10887	
	Canada	Industry Canada (IC)	22000	
Certification	Korea	KC	KR0159 (RRA) KC2019-1 (KATS)	
	EU	TUV SUD	CARAT 093449 0009	
	USA	UL	1706-E-197	

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3. Applicant information

Applicant	DAS Co., Ltd
Address	61, Jipyongseonsandan 3-gil, Gimje-si, Jeollabuk-do, Korea

Manufacturer	DAS Co., Ltd
Address	61, Jipyongseonsandan 3-gil, Gimje-si, Jeollabuk-do, Korea
Country of origin	Korea

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4. Description of EUT (Equipment under test)

4.1 Product description

Name of EUT	Emergency Stop Transmitter
Model name	QWI045

4.2 Product specification

No	Name	Spec.	function	No	Pin NAME	Function	Output
1	Emergency SW	Emergency Button Switch	Emergency Stop	1	Power 24V	Power In (+)	
2	BUTTON SW1	Push Button Switch	Broadcast an emergency stop signal	2	Power 0V	Power In (-)	
3	BUTTON SW2(Spare)	Push Button Switch	Spare	3	HIGH OUT	+OutPut	+24V
4	USB-C Connector	USB-C	For battery charging	4	GND_IN	Input GND	
5	Indicator LED (Transmitter)	RGB 3 color	* Green Flicker : RF Connection OK. * Red Flicker : Emergency SW ON * Blue : charging	5	INPUT	Input (LOW)	
				6	N.C		
				7	RELAY	Emergency Stop Output Relay	Normal Open
6	Indicator LED (Receiver)	GREEN,RED	* Green Flicker : RF Connection OK. * Red On : Emergency IN	8	RELAY_1_COM	Emergency Stop Output Relay	Normal Open

4.3 EUT internal operating frequency

Frequency	Description	Frequency	Description
922.1 MHz	-	-	-

4.4 Information of additional model

Product	Model name	Difference
-	-	-

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4.5 Peripheral equipment

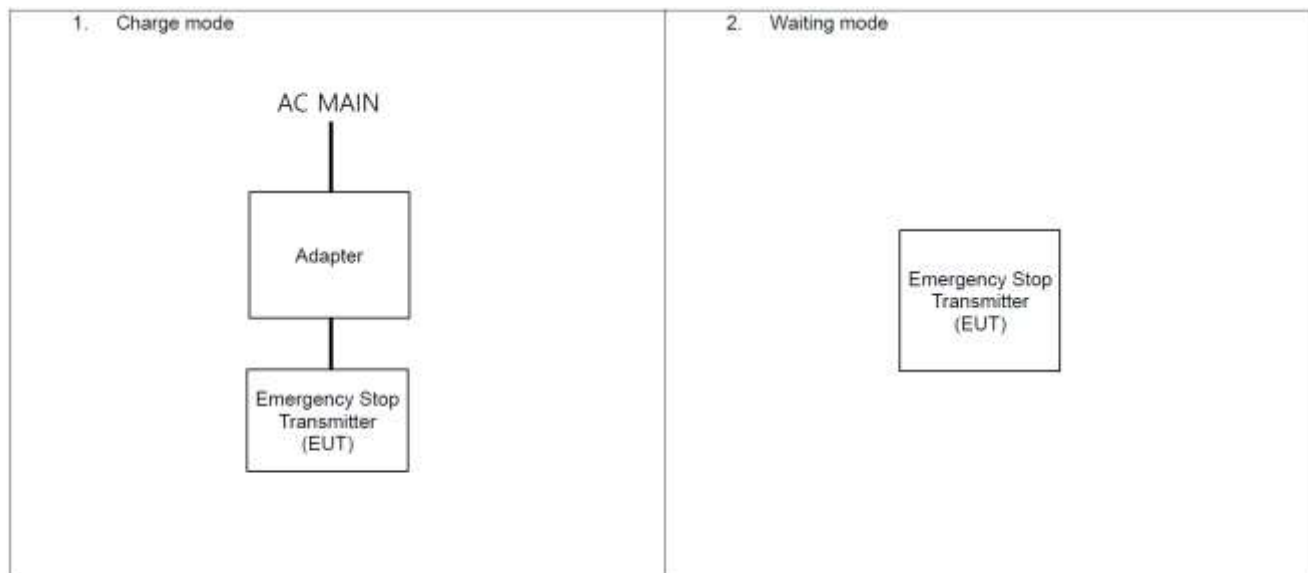
Product	Model name	Serial No.	Manufacturer
Emergency Stop Transmitter (EUT)	QWI045	-	DAS Co., Ltd / Korea
Adapter	KYT050100BC	-	Shenzhen Keyuantai Industrial Co., Ltd. / China

4.6 Connection cable

Start-up device		Connected end device		Cable specification	
Name	I/O port	Name	I/O port	Length(m)	Spec.
Emergency Stop Transmitter (EUT)	DC IN	Adapter	DC OUT	0.8	Unshield
Adapter	AC IN	AC MAIN	AC OUT	DIRECT	-

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4.7 Test set-up configuration



4.8 EUT operating test mode(s)

- Charge mode : We tested it in the charged state of the product.
- Waiting mode : Test conducted while the product is in wireless transmission standby mode.

4.9 EUT modification

- Not modification.

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5. Test standards

5.1 Standards

Test item	Applied standard	Result
Conducted emission	47 CFR FCC Part 15 Subpart B §15.107 (Class A)	C
Radiated emission (30 MHz ~ 1 000 MHz)	47 CFR FCC Part 15 Subpart B §15.109 (Class A)	C
Radiated emission (Above 1 GHz)	47 CFR FCC Part 15 Subpart B §15.109 (Class A)	C
* C=Comply, N/A=Not applicable		

* 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.

Test item		Uncertainty	Confidence level of approximately
Conducted emission	150 kHz ~ 30 MHz	2.36 dB	Least about 95 %, k = 2
Radiated emission (30 MHz ~ 1 000 MHz)	30 MHz ~ 1 000 MHz	4.80 dB	Least about 95 %, k = 2
Radiated emission (Above 1 GHz)	Above 1 GHz	5.06 dB	Least about 95 %, k = 2

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6. Emission test results

6.1 Conducted emission

Test standard	47 CFR FCC Part 15 Subpart A §15.107
Test date	2024.10.16
Test facility	Building L Shielded room (#1)
Test voltage	AC 120 V, 60 Hz
Temperature	(20.2 ~ 20.9) °C
Relative humidity	(50.1 ~ 50.5) % R.H.
Test result	Complied

6.1.1 Measurement procedure

If the EUT is table top equipment, it was placed on a non-metal table with a height of 0.8 m above the reference ground plane and 0.4 m from the conducting wall of the shielded room.

Also if the EUT is floor-standing equipment, it was placed either directly on the reference ground plane or on insulating material as described in ANSI C 63.4 6.3.3.2. Connect the EUT's power source lines to the appropriate power mains / peripherals through the LISN. All the other peripherals are connected to the 2nd LISN & ISN, if any. Unused measuring port of the LISN & ISN was resistively terminated by 50 ohm terminator. The measuring port of the LISN for EUT was connected to spectrum analyzer. Using conducted emission test software, the emissions were scanned with peak detector mode. After scanning over the frequency range, suspected emissions were selected to perform final measurement. When performing final measurement, the receiver was used which has quasi-peak detector and CISPR average detector. By varying the configuration of the test sample and the cable routing it was attempted to maximize the emission.

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6.1.2 Test equipment used

Equipment	Model	Manufacturer	Serial number	Next cal. date
EMI Test Receiver	ESR7	R&S	101440	2025.09.04
PULSE LIMITER	VTSD 9561-F	Schwarzbeck	00189	2025.04.02
LISN	ENV216	R&S	101883	2025.04.01
LISN Control Unit	LISN Controller	TSJ	04494-1	-
LISN Control Unit	LISN Controller	TSJ	04494-2	-
EMI CE Software	EMI-C	TSJ	-	-

* All test equipment used is calibrated on a regular basis.

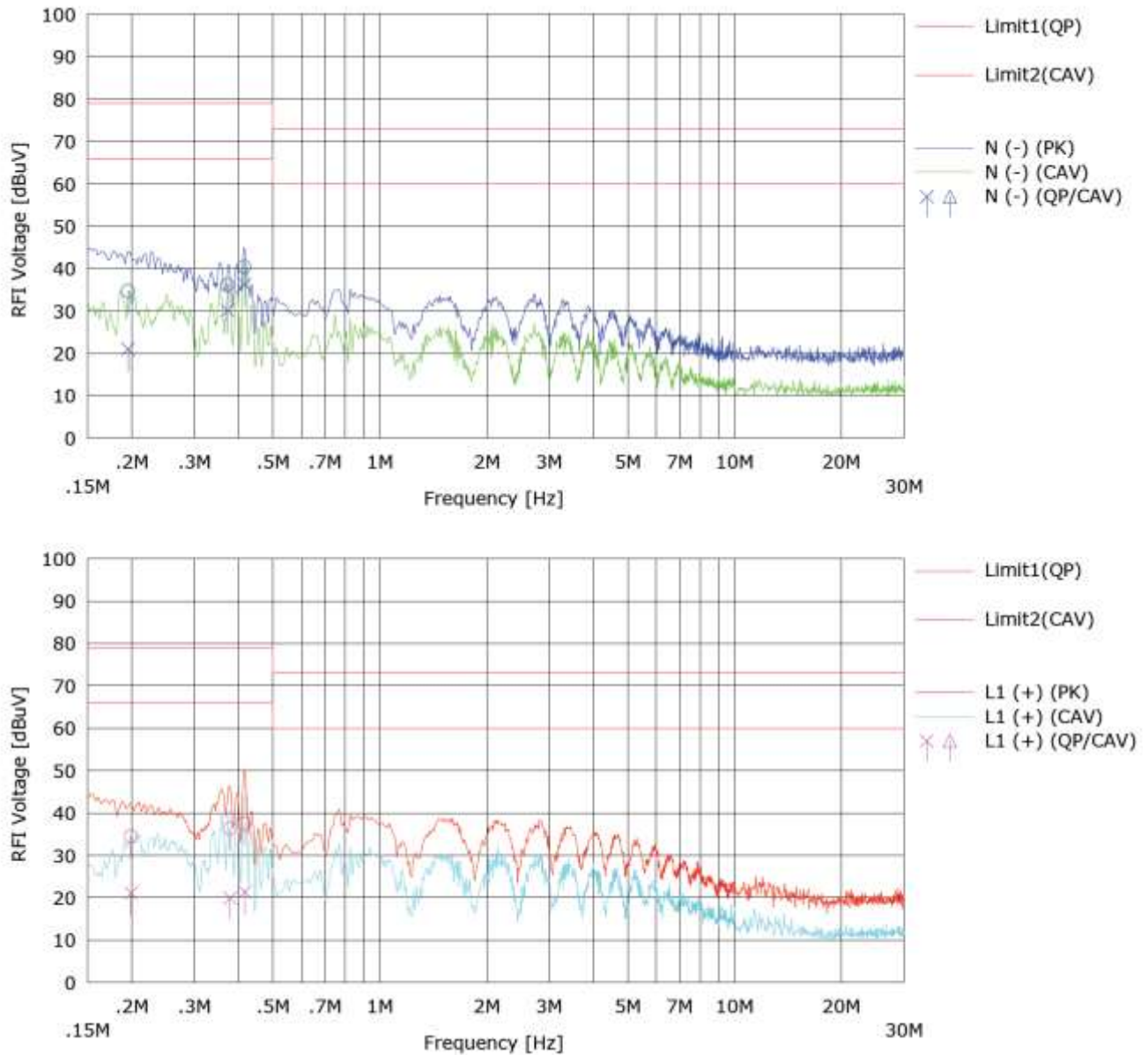
6.1.3 Conducted emission limits

Frequency (MHz)	Class A (dB(μV))		Class B (dB(μV))	
	Quasi-peak	Average	Quasi-peak	Average
0.15 to 0.5	79	66	66 ~ 56*	56 ~ 46*
0.5 to 5	73	60	56	46
5 to 30			60	50
Remark 1: (*) The limit decreases linearly with the logarithm of frequency.				

6.1.4 Conducted emission limits test data

[Charge Mode]

* Minimum limit margin is 29.8 dB at 0.41606 MHz. (CISPR Average)



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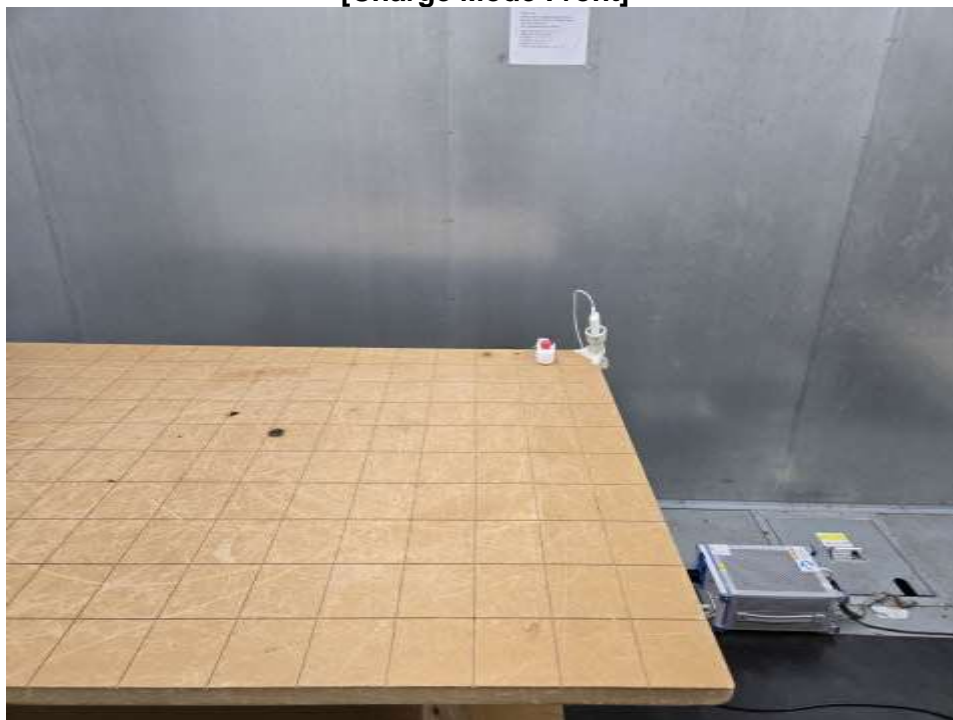
NO	FREQ [MHz]	READING		C.FACTOR [dB]	RESULT		LIMIT		MARGIN		PHASE
		QP [dBuV]	CAV [dBuV]		QP [dBuV]	CAV [dBuV]	QP [dBuV]	CAV [dBuV]	QP [dBuV]	CAV [dBuV]	
1	0.19524	14.4	0.8	20.2	34.7	21.0	79.0	66.0	44.3	45.0	N (-)
2	0.37204	15.9	9.9	20.2	36.1	30.1	79.0	66.0	42.9	35.9	N (-)
3	0.41606	20.1	16.0	20.3	40.3	36.2	79.0	66.0	38.7	29.8	N (-)
4	0.19896	14.2	0.9	20.2	34.4	21.1	79.0	66.0	44.6	45.0	L1 (+)
5	0.37830	16.1	-0.3	20.3	36.3	19.9	79.0	66.0	42.7	46.1	L1 (+)
6	0.41640	17.1	1.1	20.3	37.3	21.4	79.0	66.0	41.7	44.6	L1 (+)

<p>* Remark: "L1": (Line), "N": (Neutral)</p> <p>* Results [dB(μV)] = Reading [dB(μV)] + C.FACTOR [dB]</p> <p>* C.FACTOR [dB] = LISN insertion Loss [dB] + Cable loss [dB] + Pulse limiter factor [dB]</p> <p>* Margin [dB] = Limit [dB(μV)] - Result [dB(μV)]</p> <p>* QP: Quasi-peak , CAV: CISPR Average</p> <p>* ex) Measure Value[QP] Frequency: 0.19524 MHz Results [dB μ V] = 34.7, Reading [dB μ V] = 14.4, C.FACTOR [dB]= 20.2 34.7 dB μ V = 14.4 dB μ V + 20.2 dB Margin [dB μ V] = 44.3, Limit[dB μ V] = 79.0, Result [dB μ V] = 34.7 44.3 dB μ V = 79.0 dB μ V – 34.7 dB μ V</p>											
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6.1.5 Test setup photos

[Charge Mode Front]



[Charge Mode Rear]



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6.2 Radiated emission (30 MHz ~ 1 000 MHz)

Test standard	47 CFR FCC Part 15 Subpart A §15.109
Test date	2024.10.16
Test facility	Building A 10 m chamber
Test voltage	AC 120 V, 60 Hz
Temperature	(21.9 ~ 22.2) °C
Relative humidity	(51.7 ~ 52.3) % R.H.
Test result	Complied

6.2.1 Measurement procedure

If the EUT is tabletop equipment, it was placed on a non-metal table with a height of 0.8 m above the reference ground plane and 10 m away from the interference receiving antenna in the semi-anechoic chamber.

Also if the EUT is floor-standing equipment, it was placed either directly on the reference ground plane or on insulating material as described in ANSI C 63.4 6.3.3.2. Rotate the EUT from (0 – 360)° and position the receiving antenna at heights from (1 – 4) m above the reference ground plane continuously to determine associated with higher emission levels and record them.

The measurement was made in both the vertical and horizontal polarization, and the maximum value is presented in the report. For 30 MHz ~ 1 000 MHz frequency range, quasi-peak detector with 120 kHz RBW was used.

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6.2.2 Test equipment used

Equipment	Model	Manufacturer	Serial number	Next cal. Date
EMI Test Receiver	ESW44	R&S	101839	2025.05.30
Low Noise Preamplifier	MLA-10k01-b01-14	TSJ	2060297	2025.05.31
Bi-Log Antenna	VULB9168	Schwarzbeck	00822	2025.03.09
Attenuator	50FPE-006N	JFW	6 dB-1	2025.03.09
Controller	CO3000	Innco	45450119	-
Antenna Mast	MA4000-EP	Innco	-	-
Turn Table	-	-	-	-
EMI RE Software	EMI-R	TSJ	-	-

* All test equipment used is calibrated on a regular basis.

6.2.3 Radiated emission limits

- Limit for radiated emission below 1 000 MHz

Frequency range (MHz)	Class A Equipment (10 m distance)	Class B Equipment (3 m distance)
	Quasi-peak (dB(μV/m))	Quasi-peak (dB(μV/m))
30 to 88	39.1	40
88 to 216	43.5	43.5
216 to 960	46.4	46
960 to 1 000	49.5	54

Note 1 The lower limit shall apply at the transition frequency.

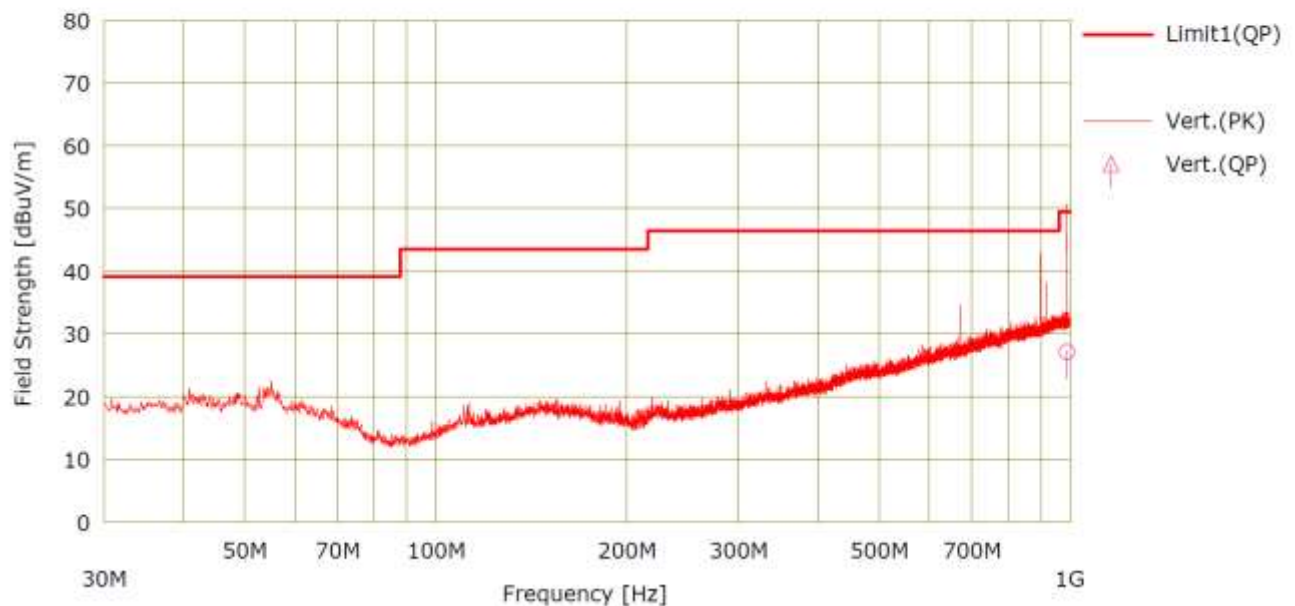
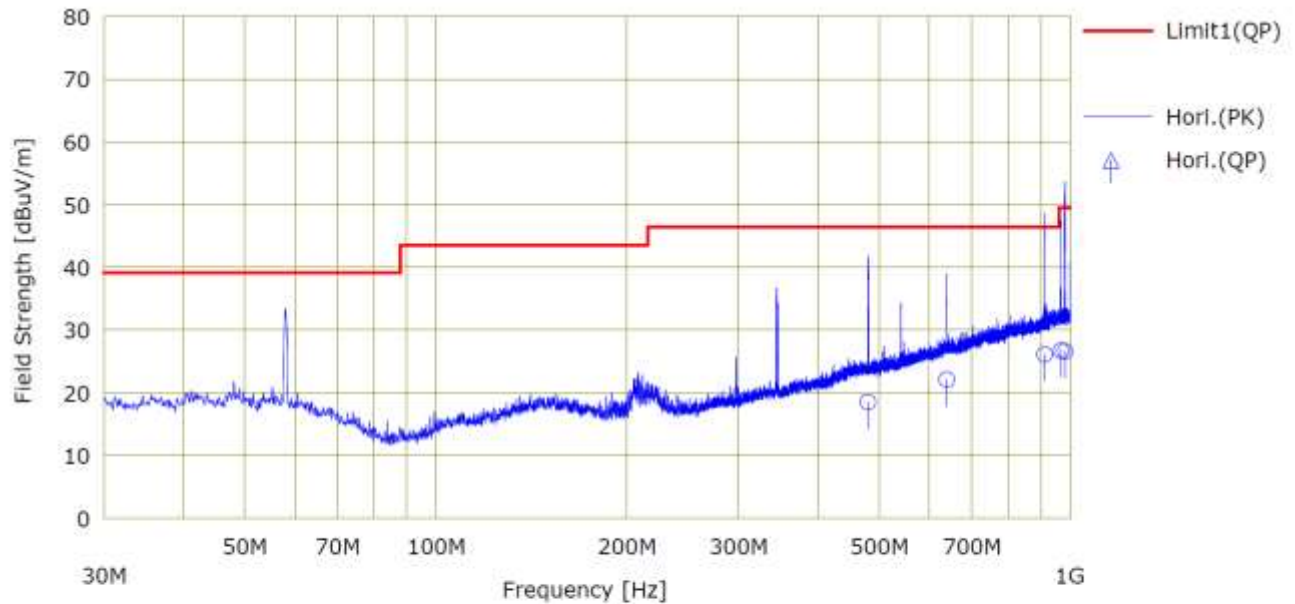
Note 2 Additional provisions may be required for cases where interference occurs.

Note 3 According to 15.109(g), as an alternative to the radiated emission limit shown above, digital devices may be shown to comply with the standards(CISPR), Pub. 22 shown as below.

6.2.4 Radiated emission test data

[Charge Mode]

* Minimum limit margin is 20.3 dB at 912.354 MHz. (Horizontal)





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<< QP DATA >>

No.	Freq. [MHz]	Reading	Ant.Fac [dB/m]	Loss [dB]	Gain [dB]	Result	Limit	Margin	Pola. [H/V]	Height [cm]	Angle [deg]	Ant. Type
		<QP> [dBuV]				<QP> [dBuV/m]	<QP> [dBuV/m]	<QP> [dB]				
1	480.308	32.1	23.1	-36.7	0.0	18.5	46.4	27.9	Hori.	400	358	VULB9
2	639.071	32.0	26.2	-36.1	0.0	22.1	46.4	24.3	Hori.	400	358	VULB9
3	912.354	31.7	28.8	-34.4	0.0	26.1	46.4	20.3	Hori.	300	167	VULB9
4	967.862	31.4	29.3	-33.9	0.0	26.7	49.5	22.8	Hori.	300	167	VULB9
5	981.780	31.1	29.3	-33.8	0.0	26.6	49.5	22.9	Hori.	300	167	VULB9
6	988.486	31.5	29.4	-33.8	0.0	27.1	49.5	22.4	Vert.	400	170	VULB9

* Results [dB(μV/m)] = Reading [dB(μV)] + Antenna factor [dB/m] - Loss

* Loss = Cable loss [dB] - Amp gain [dB]

* Margin [dB] = Limit [dB(μV/m)] - Results [dB(μV/m)]

* QP: Quasi-peak

* ex) Measure Value[QP]

Frequency: 480.308 MHz

Results [dB μ V/m] = 18.5, Reading [dB μ V/m] = 32.1, Antenna factor [dB/m] = 23.1, Loss [dB] = -36.7, Amp gain [dB] = 0.0

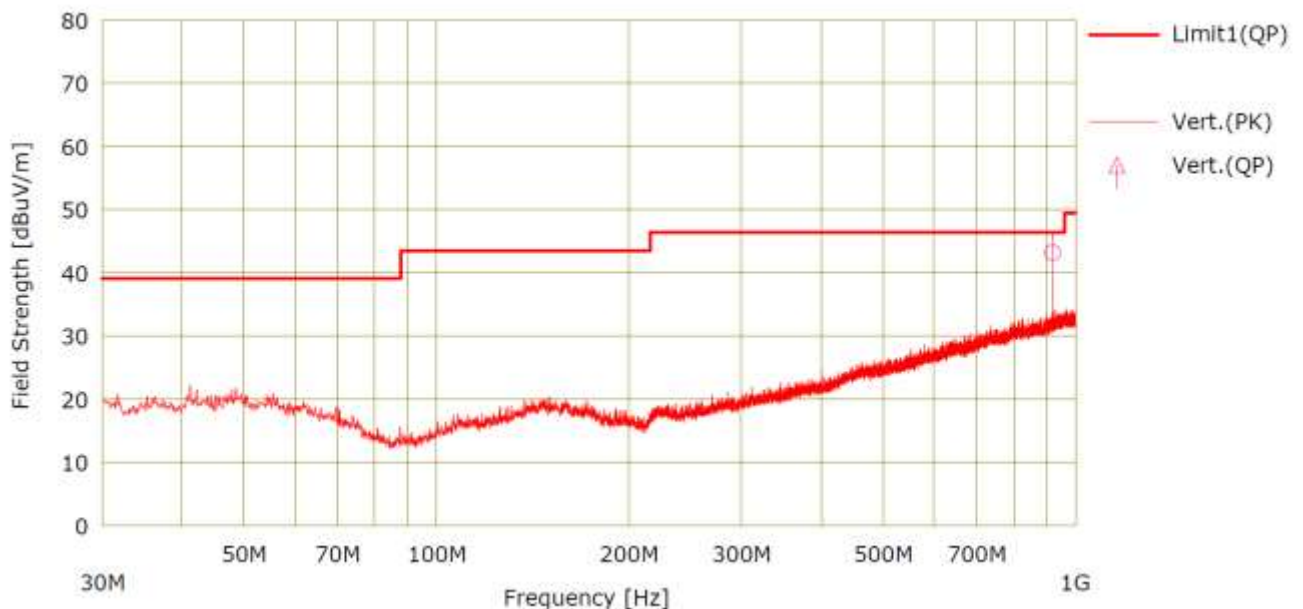
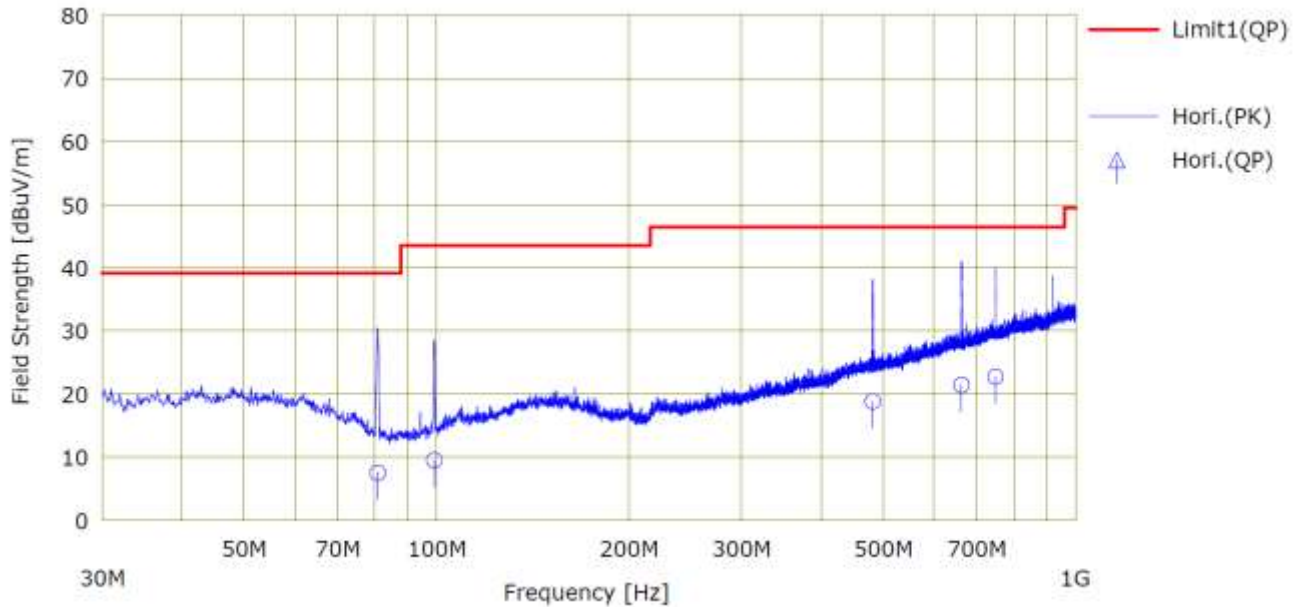
18.5 dB μ V/m = 32.1 dB μ V/m + 23.1 dB/m - 36.7 dB - 0.0 dB

Margin [dB μ V/m] = 27.9, Limit [dB μ V/m] = 46.4, Result [dB μ V/m] = 18.5

27.9 dB μ V/m = 46.4 dB μ V/m - 18.5 dB μ V/m

[Waiting Mode]

* Minimum limit margin is 3.2 dB at 921.123 MHz. (Vertical)





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<< QP DATA >>

No.	Freq.	Reading	Ant.Fac	Loss	Gain	Result	Limit	Margin	Pola.	Height	Angle	Ant. Type
		<QP>				<QP>	<QP>	<QP>				
	[MHz]	[dBuV]	[dB/m]	[dB]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	[H/V]	[cm]	[deg]	
1	80.951	32.2	13.9	-38.5	0.0	7.5	39.1	31.6	Hori.	100	319	VULB9
2	99.278	33.1	14.8	-38.4	0.0	9.5	43.5	34.0	Hori.	100	319	VULB9
3	481.726	32.4	23.2	-36.7	0.0	18.8	46.4	27.6	Hori.	400	272	VULB9
4	663.181	31.0	26.3	-35.9	0.0	21.4	46.4	25.0	Hori.	300	330	VULB9
5	749.767	30.8	27.4	-35.5	0.0	22.7	46.4	23.7	Hori.	200	85	VULB9
6	921.123	48.6	28.9	-34.3	0.0	43.2	46.4	3.2	Vert.	400	27	VULB9

* Results [dB(μ V/m)] = Reading [dB(μ V)] + Antenna factor [dB/m] - Loss

* Loss = Cable loss [dB] - Amp gain [dB]

* Margin [dB] = Limit [dB(μ V/m)] - Results [dB(μ V/m)]

* QP: Quasi-peak

* ex) Measure Value[QP]

Frequency: 80.951 MHz

Results [dB μ V/m] = 7.5, Reading [dB μ V/m] = 32.2, Antenna factor [dB/m] = 13.9, Loss [dB] = -38.5, Amp gain [dB] = 0.0

7.5 dB μ V/m = 32.2 dB μ V/m + 13.9 dB/m - 38.5 dB - 0.0 dB

Margin [dB μ V/m] = 31.6, Limit [dB μ V/m] = 39.1, Result [dB μ V/m] = 7.5

31.6 dB μ V/m = 39.1 dB μ V/m - 7.5 dB μ V/m

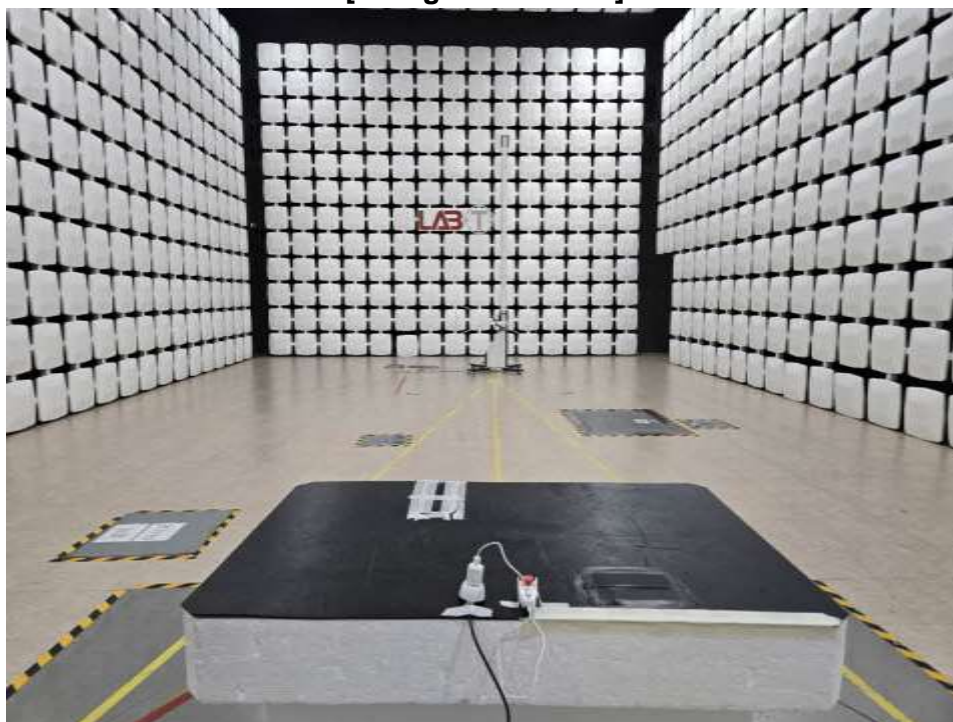
	<p>http://www.lab-t.net 2182-42 Baegok-daero, Mohyeon-eup, Cheoin-gu Yongin-si, Gyeonggi-do 17036, Korea (Republic of) Main: +82-31-322-6767, Fax: +82-31-322-6768</p>	<p>Test report No.: TREFCC24-0075</p>
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6.2.5 Test setup photos

[Charge Mode Front]



[Charge Mode Rear]



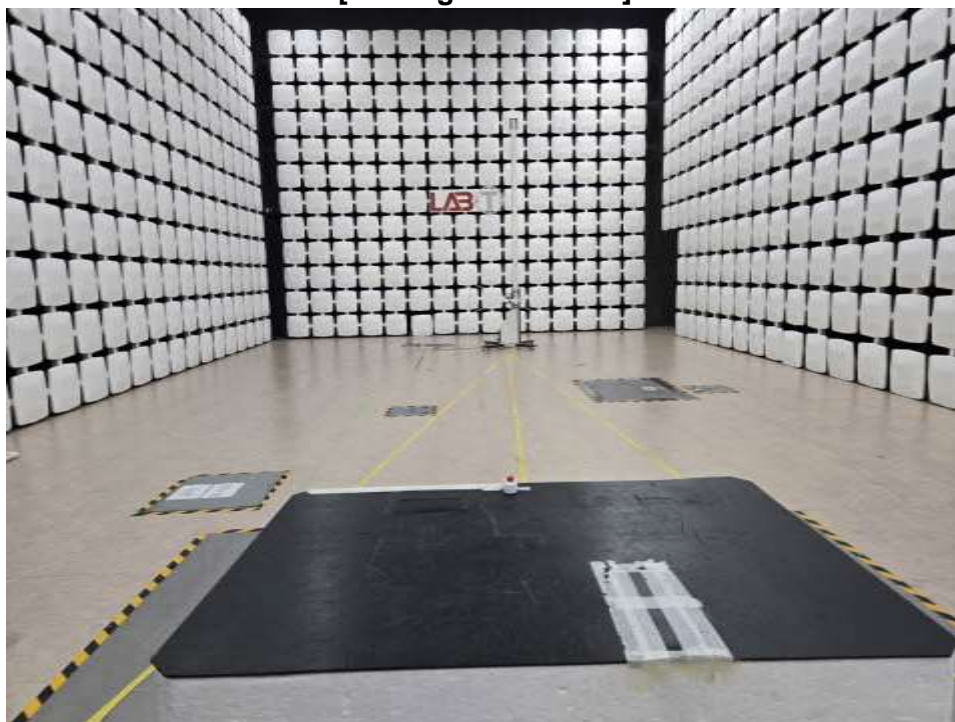


<http://www.lab-t.net>

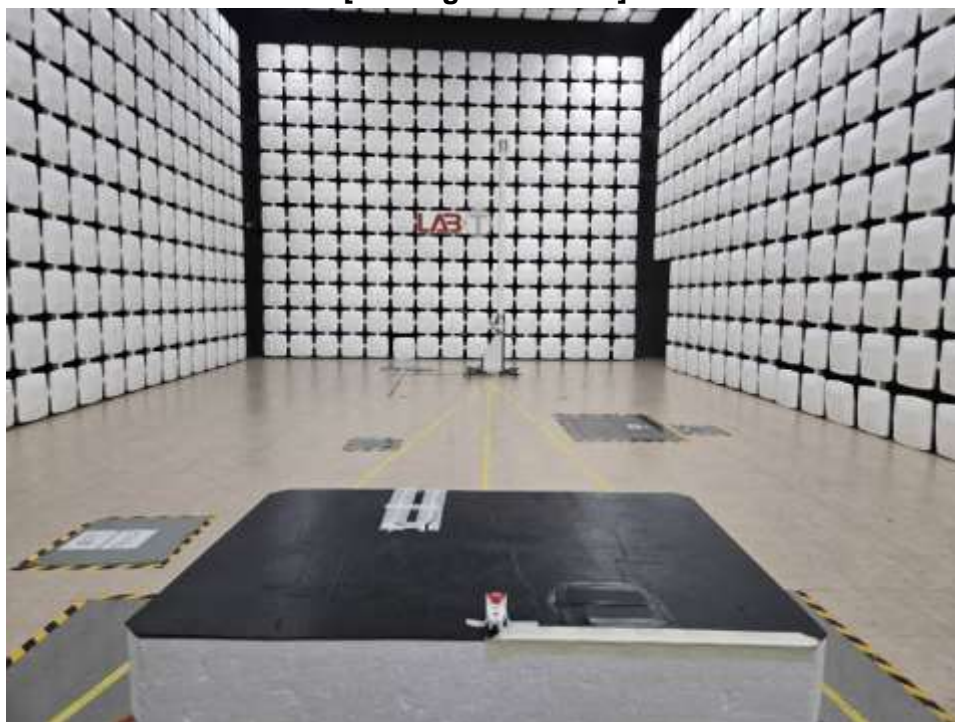
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[Waiting Mode Front]



[Waiting Mode Rear]



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6.3 Radiated emission (Above 1 GHz)

Test standard	47 CFR FCC Part 15 Subpart A §15.109
Test date	2024.10.16
Test facility	Building A 10 m chamber
Test voltage	AC 120 V, 60 Hz
Temperature	(22.2 ~ 22.7) °C
Relative humidity	(52.1 ~ 52.9) % R.H.
Test result	Complied

6.3.1 Measurement procedure

If the EUT is tabletop equipment, it was placed on a non-metal table with a height of 0.8 m above the reference ground plane and 3 m away from the interference receiving antenna in the chamber. Also if the EUT is floor-standing equipment, it was placed either directly on the reference ground plane or on insulating material as described in ANSI C 63.4 6.3.3.2. Rotate the EUT from (0 – 360)° and position the receiving antenna at heights from (1 – 4) m above the reference ground plane continuously to determine associated with higher emission levels and record them.

The measurement was made In both the vertical and horizontal polarization, and the maximum value is presented in the report. For peak and average detector with 1 MHz RBW were used for above 1 GHz frequency range.

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6.3.2 Test equipment used

Equipment	Model	Manufacturer	Serial number	Next cal. Date
EMI Test Receiver	ESW44	R&S	101839	2025.05.30
Low Noise Preamplifier	MLA-0108-J02-39	TSJ	20755	2025.05.31
Horn Antenna	BBHA 9120 D	Schwarzbeck	02067	2025.05.31
Controller	CO3000	Innco	45450119	-
Antenna Mast	MA4640-XP-ET	Innco	-	-
Turn Table	-	-	-	-
EMI RE Software	EMI-R	TSJ	-	-

* All test equipment used is calibrated on a regular basis

6.3.3 Radiated emission limits

- The test frequency range of radiated disturbance measurements are listed below

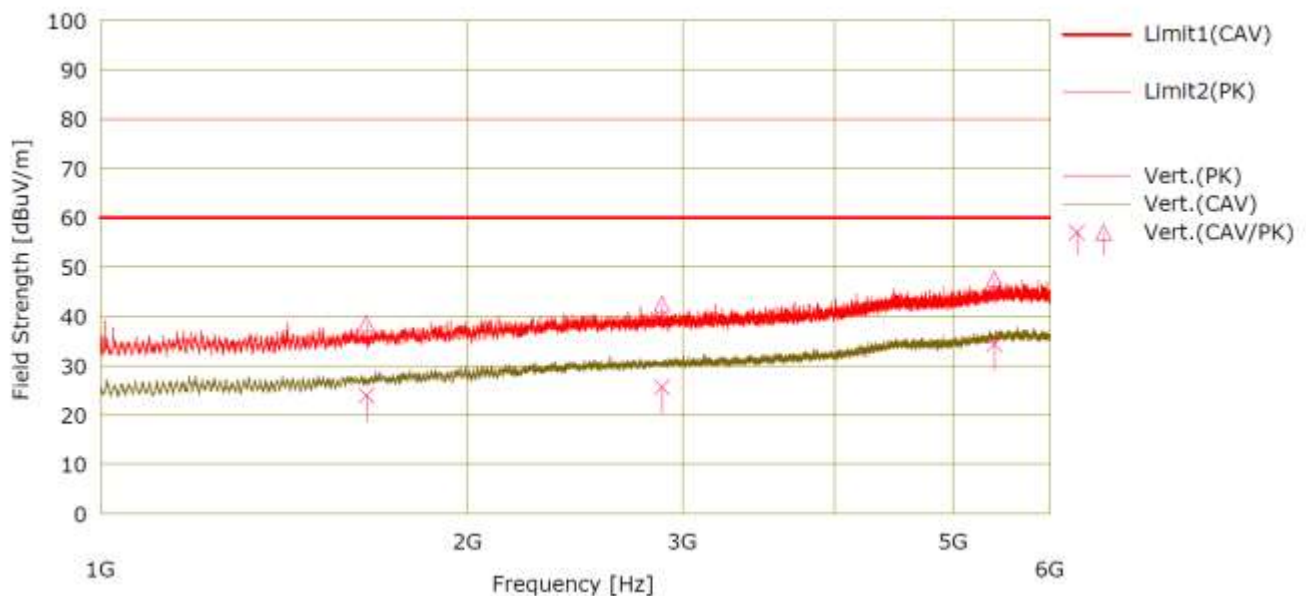
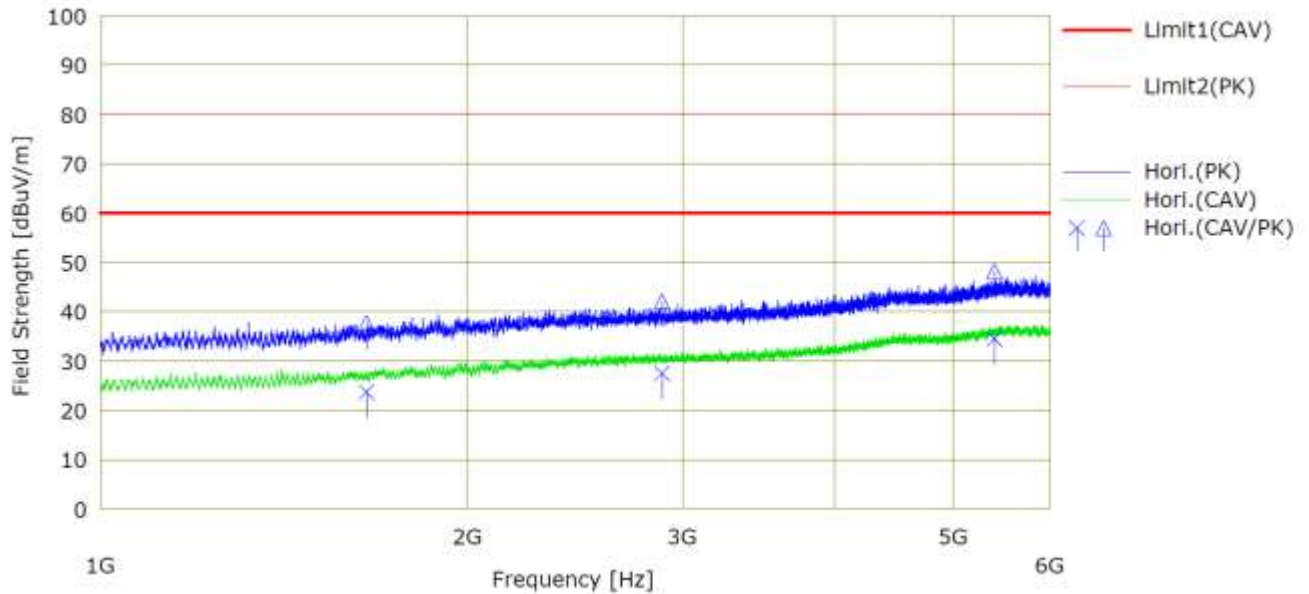
Highest frequency generated or used in the device or on which the device operates or tunes (MHz)	Upper frequency of measurement range (MHz)
Below 108	1 000
108 – 500	2 000
500 – 1 000	5 000
Above 1 000	5 th harmonic of the highest frequency or 40 GHz, whichever is lower

Frequency (GHz)	Class A equipment (3 m distance) (dB(μV/m))		Class B equipment (3 m distance) (dB(μV/m))	
	Peak	Average	Peak	Average
1 to 40	80	60	74	54

6.3.4 Radiated emission test data

[Charge Mode]

* Minimum limit margin is 25.5 dB at 5403.410 MHz. (Horizontal)





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<< CAV/PK DATA >>

No.	Freq. [MHz]	Reading		Ant.Fac [dB/m]	Loss [dB]	Gain [dB]	S.Fac [dB]	Result		Limit		Margin		Pola. [H/V]	Height [cm]	Angle [deg]	Ant. Type
		<CAV> [dBuV]	<PK> [dBuV]					<CAV> [dBuV/m]	<PK> [dBuV/m]	<CAV> [dBuV/m]	<PK> [dBuV/m]	<CAV> [dB]	<PK> [dB]				
1	1651.829	33.3	47.3	25.7	-38.8	0.0	3.5	23.7	37.7	60.0	80.0	36.3	42.3	Hori.	100	275	3BHA9
2	2885.577	31.5	46.1	28.3	-35.8	0.0	3.5	27.5	42.1	60.0	80.0	32.5	37.9	Hori.	100	0	3BHA9
3	5403.410	29.4	43.1	31.8	-30.2	0.0	3.5	34.5	48.2	60.0	80.0	25.5	31.8	Hori.	100	88	3BHA9
4	1651.829	33.5	48.1	25.7	-38.8	0.0	3.5	23.9	38.5	60.0	80.0	36.1	41.5	Vert.	100	326	3BHA9
5	2885.577	29.6	46.5	28.3	-35.8	0.0	3.5	25.6	42.5	60.0	80.0	34.4	37.5	Vert.	100	358	3BHA9
6	5403.410	29.2	42.5	31.8	-30.2	0.0	3.5	34.3	47.6	60.0	80.0	25.7	32.4	Vert.	100	136	3BHA9

* Results [dB(μV/m)] = Reading [dB(μV)] + Antenna factor [dB/m] - Loss [dB]

* Loss = Cable loss [dB] - Amp gain [dB] + S.Fac

* Margin [dB] = Limit [dB(μV/m)] - Results [dB(μV/m)]

* PK = Peak, CAV = CISPR Average

* ex) Measure Value[CAV]

Frequency: 1651.829 MHz

Results [dB μ V/m] = 23.7, Reading [dB μ V/m] = 33.3, Antenna factor [dB/m] = 25.7, Loss [dB] = -38.8

Amp gain [dB] = 0.0, S.Fac [dB] = 3.5

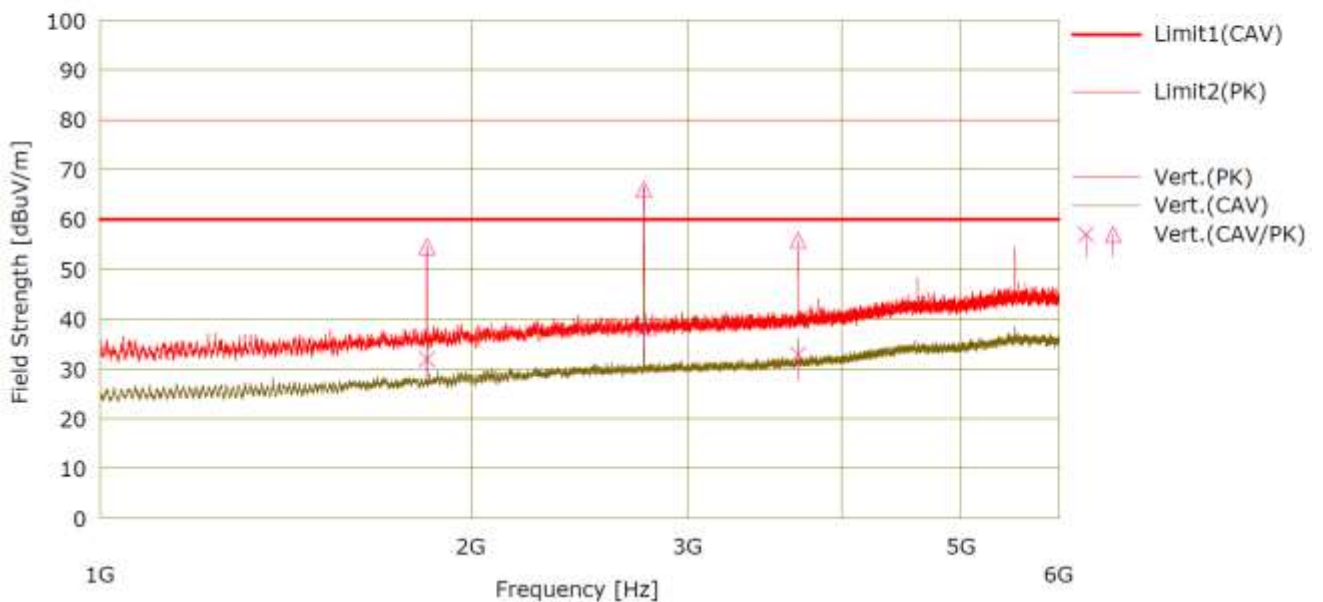
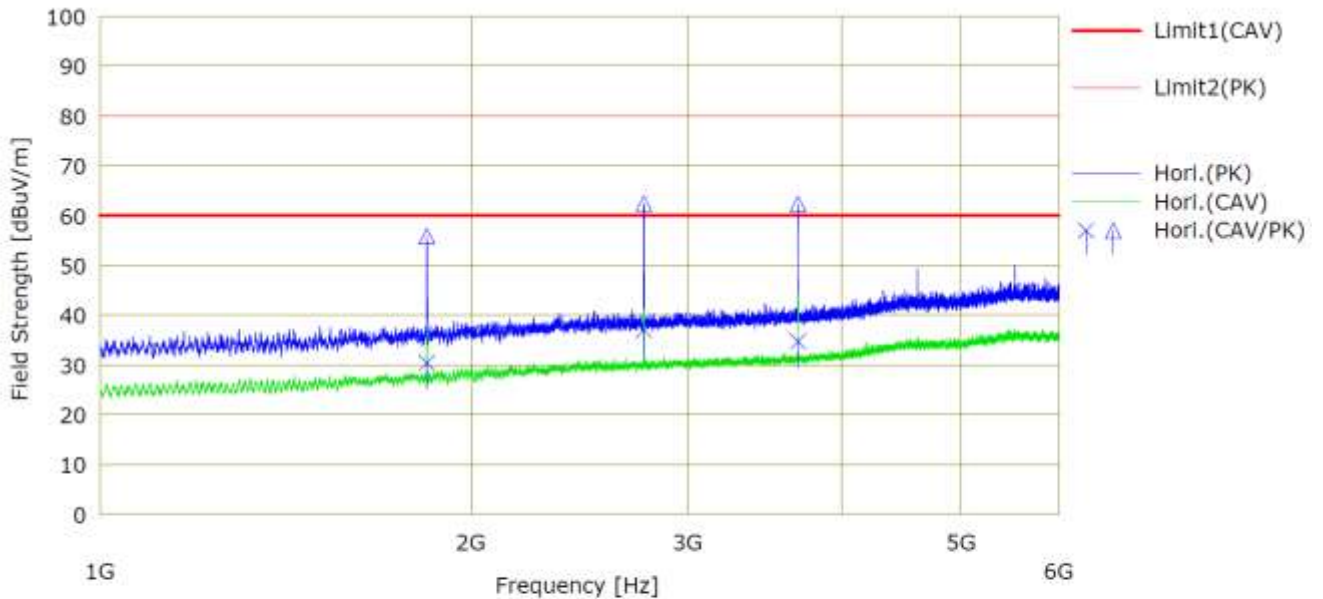
23.7 dB μ V/m = 33.3 dB μ V/m + 25.7 dB/m - 38.8 dB + 0.0 dB + 3.5 dB

Margin [dB] = 36.3, Limit [dB μ V/m] = 60.0, Result [dB μ V/m] = 23.7

36.3 dB = 60.0 dB μ V/m - 23.7 dB μ V/m

[Waiting Mode]

* Minimum limit margin is 14.0 dB at 2763.269 MHz. (Vertical)





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<< CAV/PK DATA >>

No.	Freq. [MHz]	Reading		Ant.Fac [dB/m]	Loss [dB]	Gain [dB]	S.Fac [dB]	Result		Limit		Margin		Pola. [H/V]	Height [cm]	Angle [deg]	Ant. Type
		<CAV>	<PK>					<CAV>	<PK>	<CAV>	<PK>	<CAV>	<PK>				
		[dBuV]	[dBuV]					[dBuV/m]	[dBuV/m]	[dBuV/m]	[dBuV/m]	[dB]	[dB]				
1	1842.066	38.9	64.4	26.0	-38.0	0.0	3.5	30.4	55.9	60.0	80.0	29.6	24.1	Horl.	100	300	38HA9
2	2763.269	41.4	66.8	28.0	-35.9	0.0	3.5	37.0	62.4	60.0	80.0	23.0	17.6	Horl.	100	39	38HA9
3	3684.652	36.3	63.9	29.1	-34.3	0.0	3.5	34.7	62.3	60.0	80.0	25.3	17.7	Horl.	100	53	38HA9
4	1842.066	40.4	63.0	26.0	-38.0	0.0	3.5	31.9	54.5	60.0	80.0	28.1	25.5	Vert.	100	61	38HA9
5	2763.269	42.3	70.4	28.0	-35.9	0.0	3.5	37.9	66.0	60.0	80.0	22.1	14.0	Vert.	100	283	38HA9
6	3684.652	34.4	57.4	29.1	-34.3	0.0	3.5	32.6	55.8	60.0	80.0	27.2	24.2	Vert.	100	79	38HA9

* Results [dB(μV/m)] = Reading [dB(μV)] + Antenna factor [dB/m] - Loss [dB]

* Loss = Cable loss [dB] - Amp gain [dB] + S.Fac

* Margin [dB] = Limit [dB(μV/m)] - Results [dB(μV/m)]

* PK = Peak, CAV = CISPR Average

* ex) Measure Value[CAV]

Frequency: 1842.066 MHz

Results [dB μ V/m] = 30.4, Reading [dB μ V/m] = 38.9, Antenna factor [dB/m] = 26.0, Loss [dB] = -38.0

Amp gain [dB] = 0.0, S.Fac [dB] = 3.5

30.4 dB μ V/m = 38.9 dB μ V/m + 26.0 dB/m - 38.0 dB + 0.0 dB + 3.5 dB

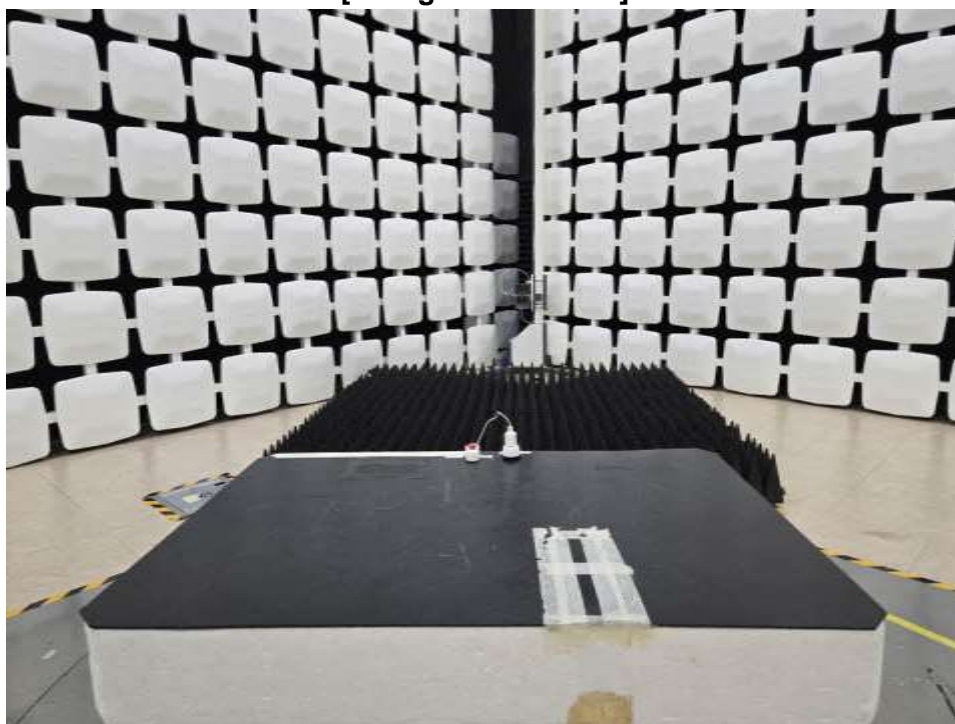
Margin [dB] = 29.6, Limit [dB μ V/m] = 60.0, Result [dB μ V/m] = 30.4

29.6 dB = 60.0 dB μ V/m - 30.4 dB μ V/m

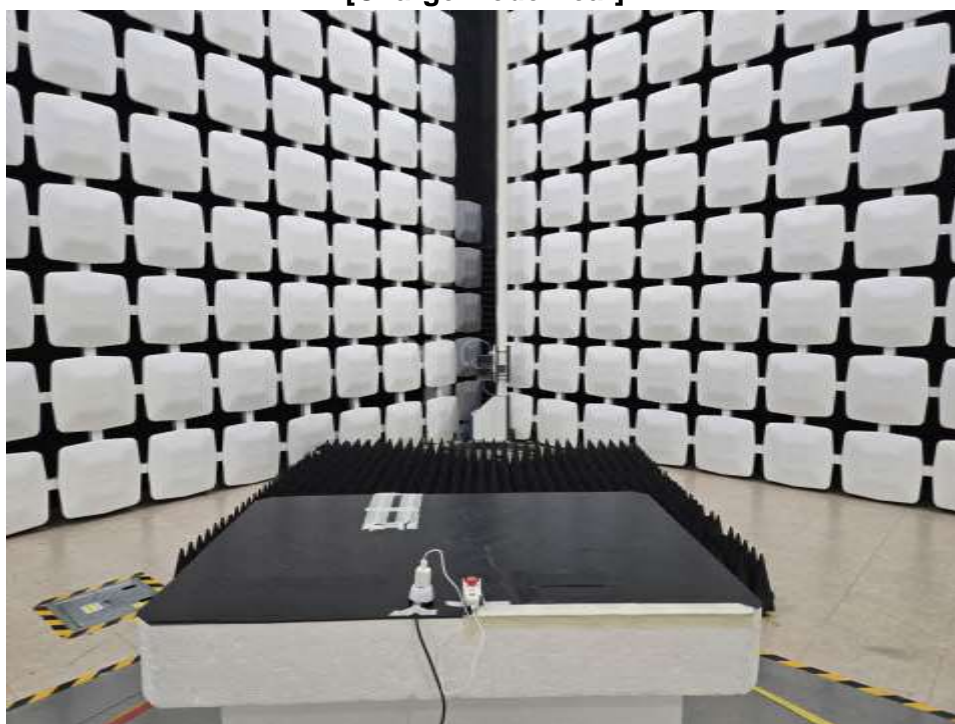
	<p>http://www.lab-t.net 2182-42 Baegok-daero, Mohyeon-eup, Cheoin-gu Yongin-si, Gyeonggi-do 17036, Korea (Republic of) Main: +82-31-322-6767, Fax: +82-31-322-6768</p>	<p>Test report No.: TREFCC24-0075</p>
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6.3.5 Test setup photos

[Charge Mode Front]



[Charge Mode Rear]



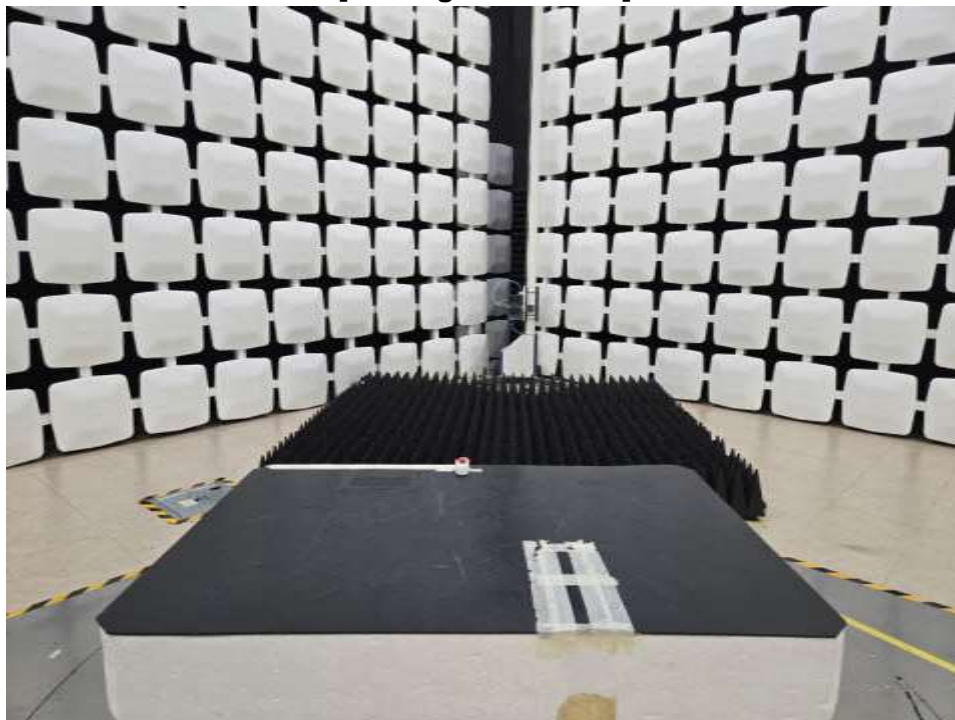


<http://www.lab-t.net>

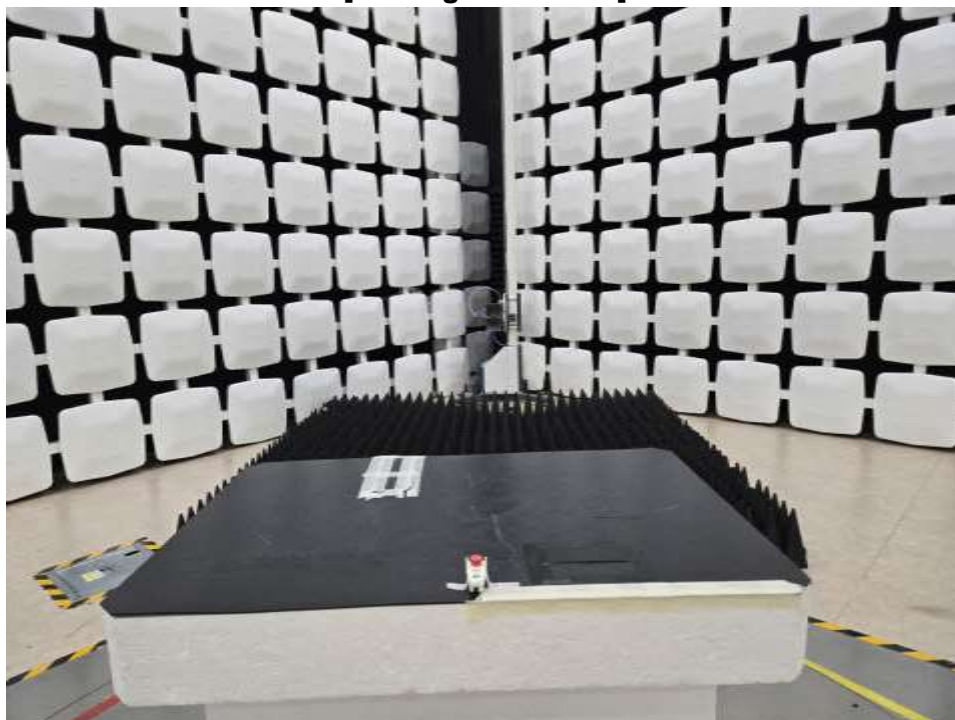
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[Waiting Mode Front]



[Waiting Mode Rear]



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7. Photographs of the product

[Front]



[Rear]



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[Left]



[Right]



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[Top]



[Bottom]



	<p style="text-align: center;">http://www.lab-t.net</p> <p style="text-align: center;">2182-42 Baegok-daero, Mohyeon-eup, Cheoin-gu Yongin-si, Gyeonggi-do 17036, Korea (Republic of) Main: +82-31-322-6767, Fax: +82-31-322-6768</p>	<p style="text-align: center;">Test report No.: TREFCC24-0075</p>
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8. Compliance information and information to user requirements summaries.

8.1 Compliance Information

This device labeling requirement is in addition to the SDoC compliance information statement and label requirements of Sections 2.1074 and 2.1077; however, placing the Part 15 compliance information will also satisfy the requirements for Sections 2.1074 and 2.1077. When the device is so small, or for such use that it is impracticable to label it with the compliance statement specified in a font that is four-point or larger, and the device does not have a display that can show electronic labeling,¹⁸ then the information required shall be placed in the instruction manual, and on the device packaging or on a removable label attached to the device. In cases where the instruction manual with the compliance information is a printed document provided along with the device, the arrangement is acceptable for compliance with the Part 2 and 15 rules for information to the user. Where the instruction manual is not a printed document, a paper slip printed with the Part 15 compliance information and included with the device will also meet the requirement of the rules.

Sections 2.1077

(a) If a product must be tested and authorized under Supplier's Declaration of Conformity, a compliance information statement shall be supplied with the product at the time of marketing or importation, containing the following information:

- (1) Identification of the product, e.g., name and model number;
- (2) A compliance statement as applicable, e.g., for devices subject to part 15 of this chapter as specified in §15.19(a)(3) of this chapter, that the product complies with the rules; and
- (3) The identification, by name, address and telephone number or Internet contact information, of the responsible party, as defined in §2.909. The responsible party for Supplier's Declaration of Conformity must be located within the United States.

(b) If a product is assembled from modular components (e.g., enclosures, power supplies and CPU boards) that, by themselves, are authorized under a Supplier's Declaration of Conformity and/or a grant of certification, and the assembled product is also subject to authorization under Supplier's Declaration of Conformity but, in accordance with the applicable regulations, does not require additional testing, the product shall be supplied, at the time of marketing or importation, with a compliance information statement containing the following information:

- (1) Identification of the assembled product, e.g., name and model number.
- (2) Identification of the modular components used in the assembly. A modular component authorized under Supplier's Declaration of Conformity shall be identified as specified in paragraph (a)(1) of this section. A modular component authorized under a grant of certification

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shall be identified by name and model number (if applicable) along with the FCC Identifier number.

- (3) A statement that the product complies with part 15 of this chapter.
- (4) The identification, by name, address and telephone number or Internet contact information, of the responsible party who assembled the product from modular components, as defined in §2.909. The responsible party for Supplier's Declaration of Conformity must be located within the United States.
- (5) Copies of the compliance information statements for each modular component used in the system that is authorized under Supplier's Declaration of Conformity.

(c) The compliance information statement shall be included in the user's manual or as a separate sheet. In cases where the manual is provided only in a form other than paper, such as on a computer disk or over the Internet, the information required by this section may be included in the manual in that alternative form, provided the user can reasonably be expected to have the capability to access information in that form. The information may be provided electronically as permitted in §2.935.

8.2 Labeling requirements (Section 15.19)

(a) In addition to the requirements in part 2 of this chapter, a device subject to certification, or Supplier's Declaration of Conformity shall be labeled as follows:

- (1) Receivers associated with the operation of a licensed radio service, e.g., FM broadcast under part 73 of this chapter, land mobile operation under part 90 of this chapter, etc., shall bear the following statement in a conspicuous location on the device:
This device complies with part 15 of the FCC Rules. Operation is subject to the condition that this device does not cause harmful interference.
- (2) A stand-alone cable input selector switch, shall bear the following statement in a conspicuous location on the device:
This device complies with part 15 of the FCC Rules for use with cable television service.
- (3) All other devices shall bear the following statement in a conspicuous location on the device:
This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.
- (4) Where a device is constructed in two or more sections connected by wires and marketed together, the statement specified under paragraph (a) of this section is required to be affixed only to the main control unit.
- (5) When the device is so small or for such use that it is impracticable to label it with the statement specified under paragraph (a) of this section in a font that is four-point or larger, and the device does not have a display that can show electronic labeling, then the information required by this paragraph shall be placed in the user manual and must also either be placed on the device packaging or on a removable label attached to the device.

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(b)-(c) [Reserved]

(d) Consumer electronics TV receiving devices, including TV receivers, videocassette recorders, and similar devices, that incorporate features intended to be used with cable television service, but do not fully comply with the technical standards for cable ready equipment set forth in §15.118, shall not be marketed with terminology that describes the device as “cable ready” or “cable compatible,” or that otherwise conveys the impression that the device is fully compatible with cable service. Factual statements about the various features of a device that are intended for use with cable service or the quality of such features are acceptable so long as such statements do not imply that the device is fully compatible with cable service. Statements relating to product features are generally acceptable where they are limited to one or more specific features of a device, rather than the device as a whole. This requirement applies to consumer TV receivers, videocassette recorders and similar devices manufactured or imported for sale in this country on or after October 31, 1994.

	
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8.3 Information to the user

8.3.1. For devices approved under Part 15, the user's manual or instruction manual for an intentional or unintentional radiator shall caution the user about changes or modifications to the device (Section 15.21).

8.3.2. For Class A and Class B digital devices, information to the user is required to include the following statements (Section 15.105):

For a Class A digital device or peripheral, the instructions furnished to the user shall include the following or similar statement, placed in a prominent location in the text of the manual:

NOTE: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

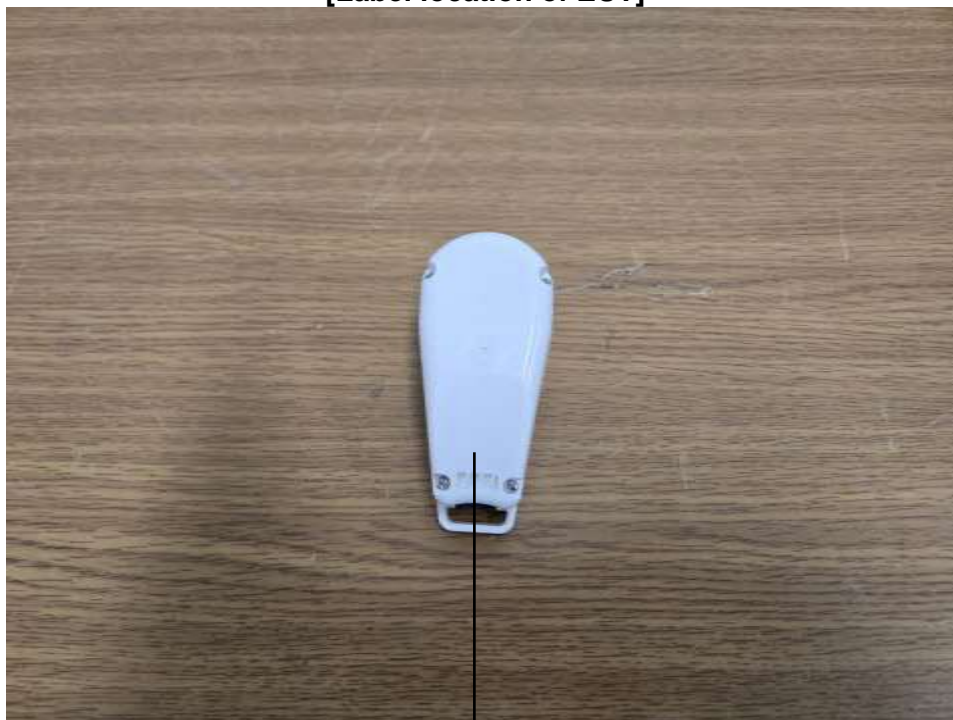
For a Class B digital device or peripheral, the instructions furnished to the user shall include the following or similar statement, placed in a prominent location in the text of the manual:

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.*
- Increase the separation between the equipment and receiver.*
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.*
- Consult the dealer or an experienced radio/TV technician for help.*

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[Label location of EUT]



- END -