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TEL : +82-31-336-1798 FAX : +82-31-336-3451

DSTech Co., Ltd.

TEST REPORT



1. Report No : DST-25E-1339(2)
2. Date of incoming : 2025.07.01
3. Applicant
 - Name : Glosys Inc.
 - Address : B2535 Kumgang Pentarium IX Tower, 27 Dongtancheomdansaneop 1-ro, Hwaseong-si, Gyeonggi-do, Korea
4. Manufacturer : Glosys Inc.
5. Equipment
 - Product Name : Automotive CT System
 - Model Name : CT90118B
 - FCC ID : YE4CT90118BV2
6. Purpose of a report : FCC Marking
7. Test Method Used : ANSI C63.4a:2017
FCC Part 15 Subpart B
(Class A digital devices, peripherals & external switching power supplies)
8. Date of Test : 2025.08.04
9. Test Result : Refer to the attached Test Result

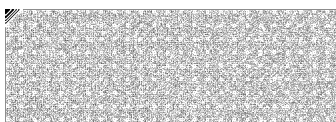
Affirmation	Tested by	Reviewed by
	Name : HA, Junyoung 	Name : KIM, Jooho 

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.

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2025.10.27**DSTech Co., Ltd.**

※ This test report is not related to KS Q ISO/IEC 17025 and KOLAS Scheme & procedure





Test Report Revision History

Revisions	Issue Report No.	Issued Date	Description	Approved by
0	DST-25E-1339	2025.08.12	Initial Release	J.H. Kim
1	DST-25E-1339(1)	2025.10.02	Addition of FCC ID	J.H. Kim
2	DST-25E-1339(2)	2025.10.27	Addition of radiated emission test equipment	J.H. Kim

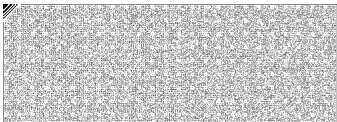


TABLE OF CONTENTS

1. Test Laboratory	4
2. General Information of EUT	5
2.1 Basic description of EUT	5
2.2 Alternative type(s)/model(s); also covered by this test report.	5
3. Test Summary	6
3.1 Applied standards and test results	6
4. Test Conditions	7
4.1 EUT and supporting equipment used during test	7
4.2 EUT Operation Modes	7
4.3 Description of EUT modification	8
4.4 Variations covered by this report	8
4.5 Additional information related to Testing	8
4.6 Test System layout on EUT and peripherals	8
5. Test Results : Emission	9
5.1 Conducted Emission Test	9
5.1.1 Test Condition	9
5.1.2 Test Limits	9
5.1.3 Test Equipment List	9
5.1.4 Test Result of Conducted Emission	9
5.2 Radiated Emission Test	10
5.2.1 Test Condition	10
5.2.2 Test Limits	10
5.2.3 Test Equipment List	11
5.2.4 Test Result of Radiated Emission	12
6. Photographs of Test Configuration	18
6.1 Photographs of Conducted Emission Test Configuration	18
6.2 Photographs of Radiated Emission Test Configuration	19
7. Photographs of EUT	21





Report No.: DST-25E-1339(2)

1. Test Laboratory

This report contains the result of tests performed by:

Company Name	DSTech Co., Ltd.
Address	25, 2565beon-gil, Jungbu-daero, Yangji-myun, Cheoin-gu, Yongin-si, Gyeonggi-do, Korea.
TEL	+82-31-336-1798
FAX	+82-31-336-3451



2. General Information of EUT

2.1 Basic description of EUT

Kind of Equipment	Automotive CT System
Model No	CT90118B
Add Model	N/A
Serial No	N/A
Type of Sample Tested	Pre-Production
Testing voltage	DC 12 V
Input rating	DC 12 V
Max Internal Frequency	Above 108 MHz
Applicant	Glosys Inc. B2535 Kumgang Penterium IX Tower, 27 Dongtancheomdansaneop 1-ro, Hwaseong-si, Gyeonggi-do, Korea
Manufacturer	Glosys Inc. B2535 Kumgang Penterium IX Tower, 27 Dongtancheomdansaneop 1-ro, Hwaseong-si, Gyeonggi-do, Korea

2.2 Alternative type(s)/model(s); also covered by this test report.

- The following lists consist of the added model and their differences.

Model Name	Differences	Tested
-	-	☐



3. Test Summary

3.1 Applied standards and test results

Basic Standard	Description	Test Result
FCC Part 15 Subpart B	15.107(a) Conducted Emission	N/A (Note 1)
	15.109(g) Radiated Emission	C
C=Comply N/C=Not Comply N/T=Not Tested N/A=Not Applicable		

* The sample was tested according to the following specification: ANSI C63.4a:2017

Note 1) This test was excluded because EUT supplied power from DC Power



4. Test Conditions

4.1 EUT and supporting equipment used during test

Type of Peripheral Equipment Used:

Description	Model Name	Serial No.	Manufacturer
Automotive CT System	CT90118B	-	Glosys Inc.
High Definition Camera System	HDCMM ECU V1.0	-	-
Speaker	-	-	-
Monitor	-	-	-
AC Adapter	-	-	-

Type of Cables Used:

Device from		Device to		Length (m)	Type of shield
Name of Device	I/O port	Name of Device	I/O port		
EUT	Connector(20 Pin)	DC Mains	DC Output	1.5	NS
		High Definition Camera System	-	2.0	NS
EUT	Connector(10 Pin)	Speaker	-	1.8	NS
EUT	HD Cam In	High Definition Camera System	HD Cam Out	2.0	NS
High Definition Camera System	HDMI	Monitor	HDMI	1.8	S
Monitor	DC Input	AC Adapter	DC Output	1.6	NS
AC Adapter	AC Input	AC Mains	AC Output	1.8	NS

* NS = Unshield / S = Shield

4.2 EUT Operation Modes

No.	Mode	Description
1	Normal	After inputting DC 12 V power, test by checking the video and audio of the EUT.



4.3 Description of EUT modification

- N/A

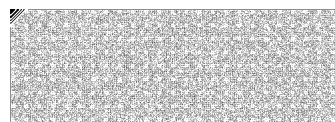
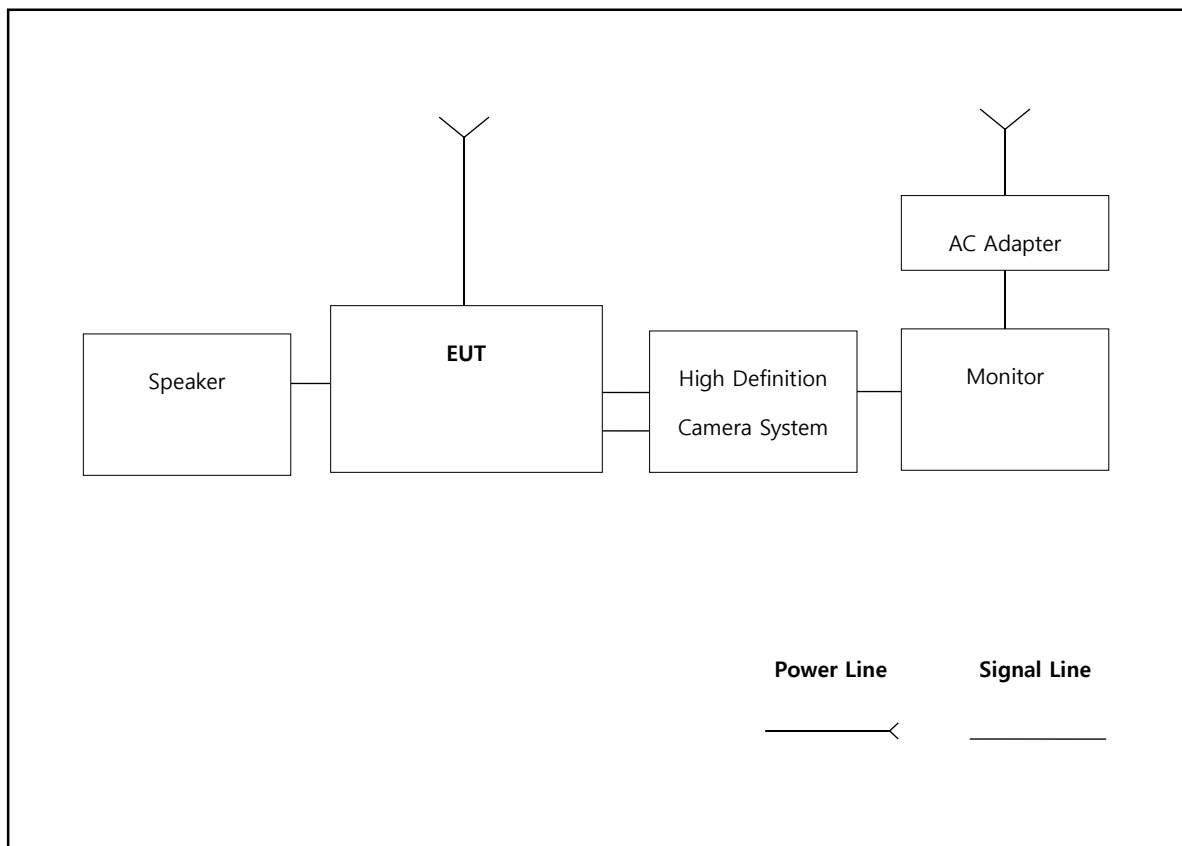
4.4 Variations covered by this report

- N/A

4.5 Additional information related to Testing

Test results apply only to the particular sample tested and functionality described in this test report. This report may be reproduced in full. Partial reproduction may only be made with the written permission of the DS Tech Co., Ltd.

4.6 Test System layout on EUT and peripherals



5. Test Results : Emission

5.1 Conducted Emission Test

5.1.1 Test Condition

Test Method : N/A

Test Date :

Temperature/Humidity :

Operation mode :

5.1.2 Test Limits

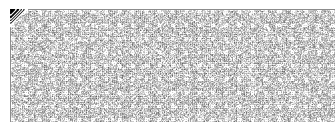
Frequency range (MHz)	Limits dB(μV)			
	Quasi-peak		Average	
	Class A	Class B	Class A	Class B
0.15 to 0.50	79	66 ~ 56	66	56 ~ 46
0.50 to 5	73	56	60	46
5 to 30		60		50

5.1.3 Test Equipment List

Equipment Type	Model	Serial No	Manufacture	Cal Due Date	Use
EMI Test Receiver	ESCI 3	100049	ROHDE & SCHWARZ	2026.06.16	☐
Pulse Limiter(10 dB)	ESH3-Z2	102029	ROHDE & SCHWARZ	2026.06.18	☐
Two-Line V-network	ESH3-Z5	100193	ROHDE & SCHWARZ	2026.06.16	☐

5.1.4 Test Result of Conducted Emission

Test Results : N/A



5.2 Radiated Emission Test

5.2.1 Test Condition

Test Method : FCC Part 15 Subpart B
 Test Date : 2025.08.04
 Temperature/Humidity : 22 °C / 46 % R.H.
 Operation mode : Mode 1

5.2.2 Test Limits

- The test frequency range of Radiated Disturbance measurements are listed below.

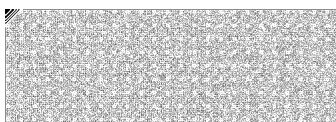
Highest frequency generated or used in the device or on which the device operates or tunes (MHz)	Upper frequency of measurement range (MHz)
Below 108	1 000
108 – 500	2 000
500 – 1 000	5 000
Above 1 000	5th harmonic of the highest frequency or 40 GHz, whichever is lower

(1) Limit for Radiated Emission below 1 000MHz

Frequency range (MHz)	Class A Equipment (10 m distance)	Class B Equipment (3 m distance)
	Quasi-peak (dBμV/m)	Quasi-peak (dBμV/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
Frequency range (MHz)	Class A Equipment (10 m distance)	Class B Equipment (10 m distance)
	Quasi-peak (dBμV/m)	Quasi-peak (dBμV/m)
30 to 230	40	30
230 to 1 000	47	37

(2) Limits for Radiated Emission above 1 000MHz at a measuring distance of 3 m

Frequency (GHz)	Class A Equipment		Class B Equipment	
	Peak (dBμV/m)	Average (dBμV/m)	Peak (dBμV/m)	Average (dBμV/m)
1 to 40	80	60	74	54



The radiated disturbance was measured and set-up was made accordance with **ANSI C63.4a:2017**. If the EUT is table top equipment, it was placed on a wooden table with a height of 0.8 m above the reference ground plane and 3 m or 10 m away from the interference receiving antenna in the **10m semi-anechoic chamber**.

Also if the EUT is floor-standing equipment, it was placed on a non-conducted support with a height up to 0.15 m above the reference ground plane.

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 below 1 GHz frequency range, Quasi-Peak detector with 120 kHz RBW was used.

Also Peak and Average detector with 1 MHz RBW were used for above 1 GHz frequency range.

For further description of the configuration refer to the picture of the test set-up.

5.2.3 Test Equipment List

Equipment Type	Model	Serial No	Manufacture	Cal Due Date	Next Cal Due Date	Use
EMI Test Receiver	ESW 44	101545	ROHDE & SCHWARZ	2025.06.16	2026.06.16	☒
Low Noise Amplifier	TK-PA01S	190013-L	TESTEK	2025.06.16	2026.06.16	☒
TRILOG Broadband Antenna	VULB 9168	00904	SCHWARZBECK	2024.07.30	2026.07.30	☒
Attenuator	PE-7074-6	-	PASTERNAK			
Amplifier	TK-PA18H	180002-L	TESTEK	2025.06.16	2026.06.16	☒
Horn Antenna	3117	218906	ETS-LINDGREN	2025.06.30	2026.06.30	☒
RF CABLE	SUCOFL EX 104	802743	HUBER+SUHNER	2025.07.19	2026.07.19	☒
RF CABLE	SUCOFL EX 104	802745	HUBER+SUHNER	2025.07.19	2026.07.19	☒
RF CABLE	SUCOFL EX 104	802770	HUBER+SUHNER	2025.07.19	2026.07.19	☒
RF CABLE	SUCOFL EX 104	802741	HUBER+SUHNER	2025.07.19	2026.07.19	☒
RF CABLE	SUCOFL EX 104	802737	HUBER+SUHNER	2025.07.19	2026.07.19	☒
RF CABLE	SUCOFL EX 106	800964	HUBER+SUHNER	2025.07.19	2026.07.19	☒



5.2.4 Test Result of Radiated Emission

Test Results: PASS

Test data sheets follow.

Frequency Range [30 MHz – 1 GHz]

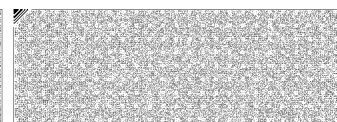
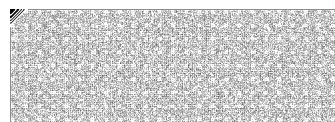
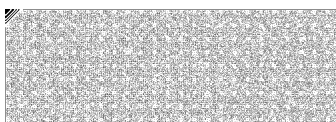
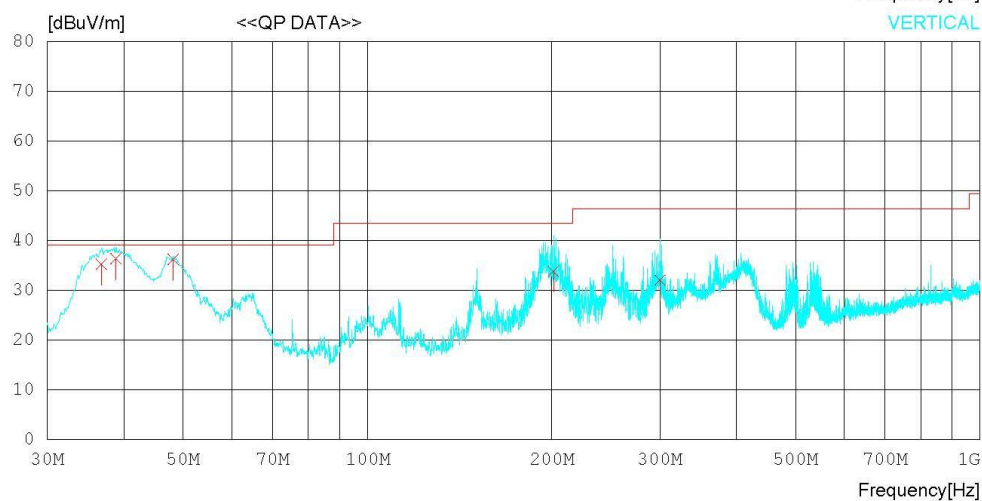
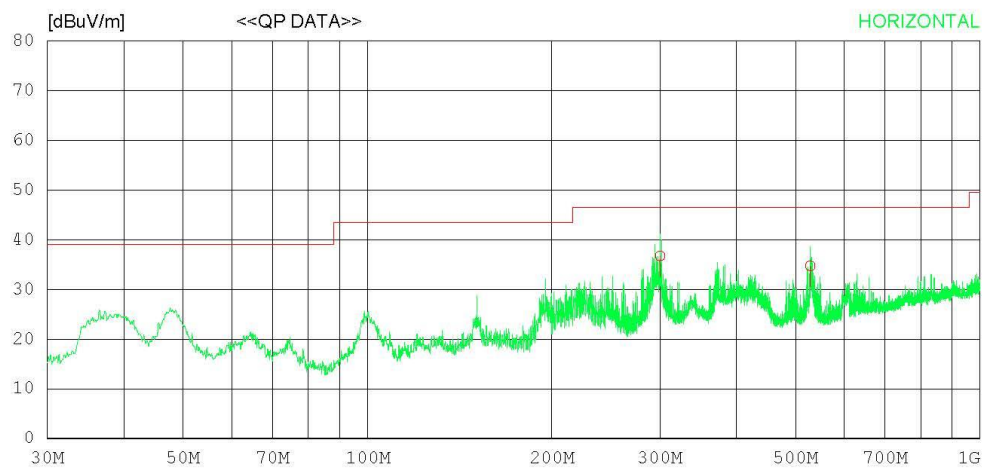
Results of Radiated Emission

Date : 2025-08-04

Order No. : DST-25E-1339
Test condition : DC 12 V
Test Mode : Normal

Test engineer : J.Y.HA
:
:
:

LIMIT : FCC PART 15B CLASS A_10M





Results of Radiated Emission

Date : 2025-08-04

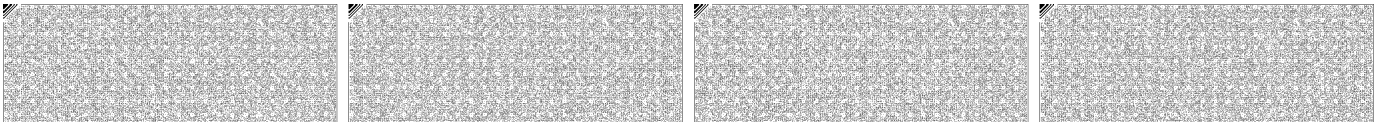
Order No. : DST-25E-1339 Test engineer : J.Y.HA
Test condition : DC 12 V
Test Mode : Normal

LIMIT : FCC PART 15B CLASS A_10M

No.	FREQ [MHz]	READING QP [dBuV]	ANT FACTOR [dB]	LOSS [dB]	GAIN [dB]	RESULT [dBuV/m]	LIMIT [dBuV/m]	MARGIN [dB]	ANTENNA [cm]	TABLE [DEG]
----- Horizontal -----										
1	300.380	57.2	19.2	3.3	43.0	36.7	46.4	9.7	361	356
2	528.449	49.1	24.0	4.3	42.7	34.7	46.4	11.7	168	317
----- Vertical -----										
3	36.790	58.0	19.0	1.2	42.9	35.3	39.1	3.8	162	135
4	38.851	59.0	19.2	1.2	43.0	36.4	39.1	2.7	137	315
5	48.188	58.3	19.8	1.3	43.1	36.3	39.1	2.8	187	167
6	201.201	58.5	15.9	2.7	43.2	33.9	43.5	9.6	146	187
7	300.380	52.6	19.2	3.3	43.0	32.1	46.4	14.3	124	154

Description of Calculation

C.FACTOR(dB) :	Ant factor(dB) + Cable loss(dB) – Amp Gain(dB)
Result(dBμV) :	Reading Value(dBμV) + C.FACTOR(dB)
Margin(dBμV) :	Limit(dBμV) - Result(dBμV)



Frequency Range [1 GHz – 6 GHz]

Results of Radiated Emission

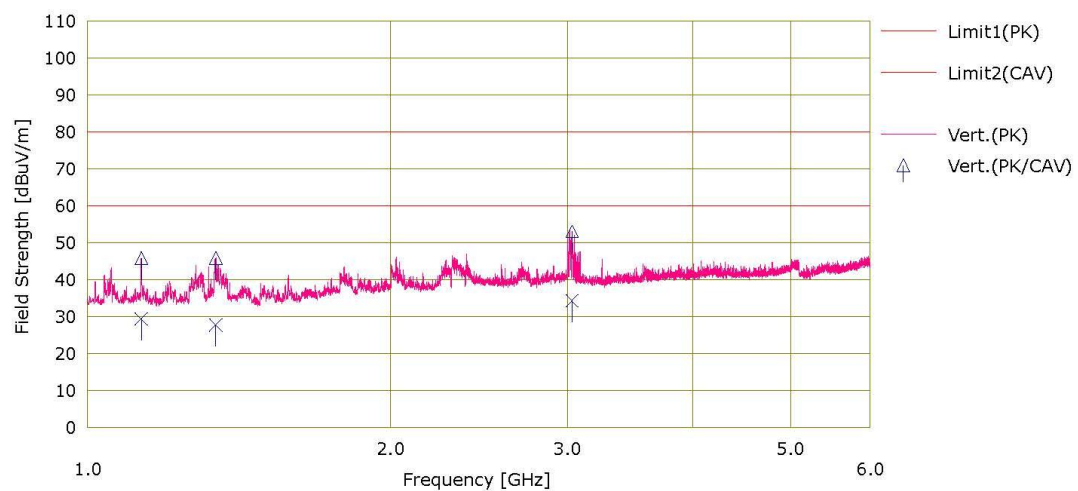
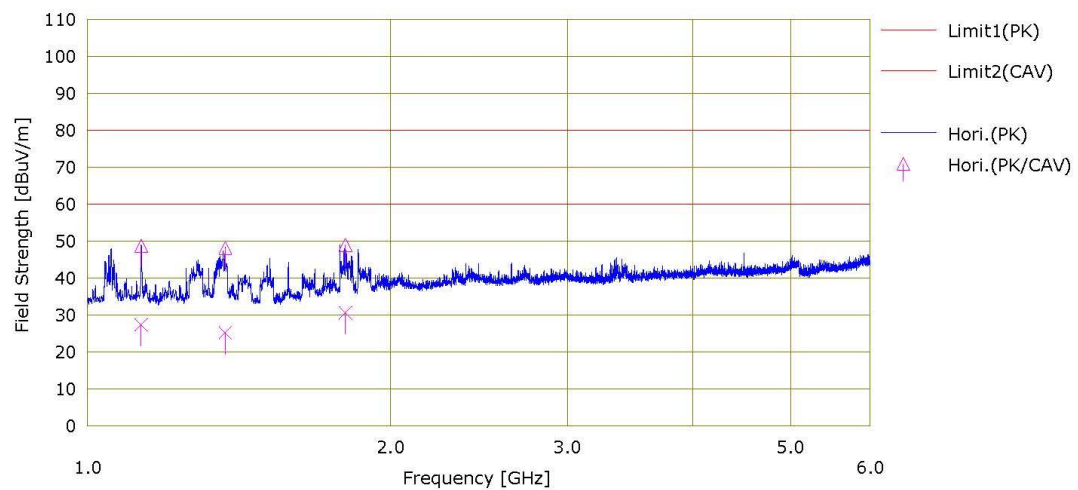
Order. : DST-25E-1339
 Test condition : DC 12 V
 Test Mode : Normal

Test engineer : J.Y.HA

DS Tech korea
 Date : 2025-08-04

Comment :

Limit1 : FCC A 1~6GHz PK
 Limit2 : FCC A 1~6GHz AV





Results of Radiated Emission

Order. : DST-25E-1339
Test condition : DC 12 V
Test Mode : Normal
Comment :

Test engineer : J.Y.HA

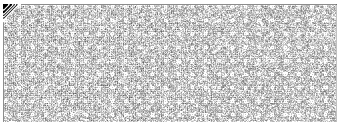
DS Tech korea
Date : 2025-08-04

Limit1 : FCC A 1~6GHz PK
Limit2 : FCC A 1~6GHz AV

No.	FREQ	READING		ANT	LOSS	GAIN	RESULT		LIMIT		MARGIN		ANTENNA	TABLE
	[MHz]	PK	CAV	FACTOR	[dB]	[dB]	PK	CAV	PK	CAV	PK	CAV	[cm]	[DEG]
----- Horizontal -----														
1	1130.763	56.6	35.2	27.5	6.6	43.3	48.7	27.3	80.0	60.0	31.3	32.7	100	327
2	1370.593	55.1	32.1	28.0	7.0	43.3	48.1	25.1	80.0	60.0	31.9	34.9	100	233
3	1804.378	52.6	34.2	30.2	8.1	43.3	48.9	30.5	80.0	60.0	31.1	29.5	100	302
----- Vertical -----														
4	1130.948	53.6	37.2	27.5	6.6	43.3	45.7	29.3	80.0	60.0	34.3	30.7	100	315
5	1341.590	52.3	34.2	28.4	7.0	43.3	45.7	27.6	80.0	60.0	34.3	32.4	100	307
6	3032.453	51.4	32.6	32.6	10.6	42.9	53.0	34.2	80.0	60.0	27.0	25.8	100	29

Description of Calculation

C.FACTOR(dB) :	Ant factor(dB) + Cable loss(dB) – Amp Gain(dB)
Result(dBμV) :	Reading Value(dBμV) + C.FACTOR(dB)
Margin(dBμV) :	Limit(dBμV) - Result(dBμV)



Frequency Range [6 GHz – 18 GHz]

Results of Radiated Emission

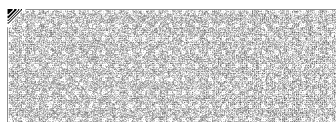
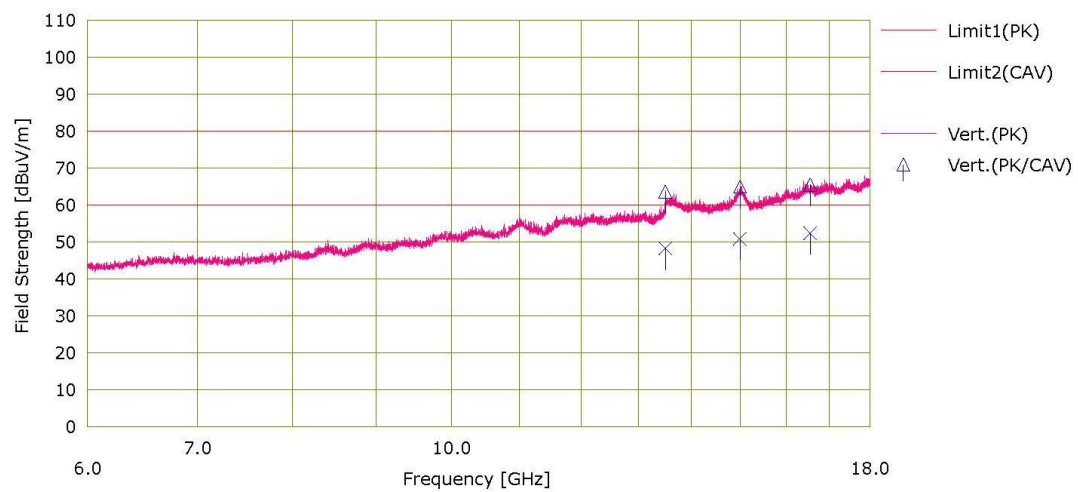
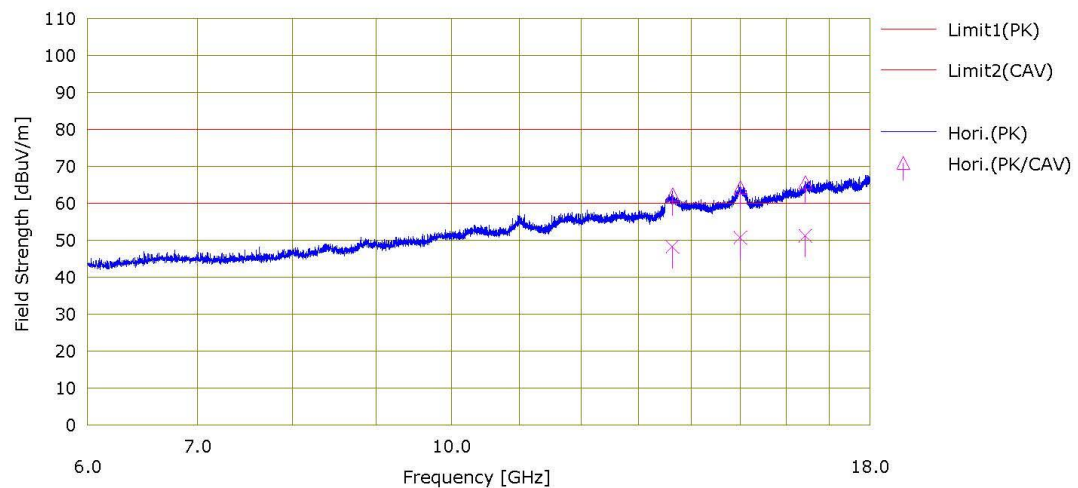
Order. : DST-25E-1339
 Test condition : DC 12 V
 Test Mode : Normal

Test engineer : J.Y.HA

DS Tech korea
 Date : 2025-08-04

Comment :

Limit1 : FCC_6-18GHz_PK
 Limit2 : FCC_6-18GHz_AV





Results of Radiated Emission

Order. : DST-25E-1339
Test condition : DC 12 V
Test Mode : Normal
Comment :

Test engineer : J.Y.HA

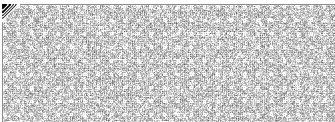
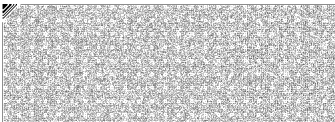
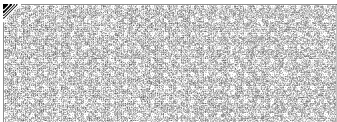
DS Tech korea
Date : 2025-08-04

Limit1 : FCC_6-18GHz_PK
Limit2 : FCC_6-18GHz_AV

No.	FREQ [MHz]	READING		ANT FACTOR [dB]	LOSS [dB]	GAIN [dB]	RESULT		LIMIT		MARGIN		ANTENNA [cm]	TABLE [DEG]
		PK	CAV				PK	CAV	PK	CAV	PK	CAV		
		[dBuV]					[dBuV/m]		[dBuV/m]		[dB]			
----- Horizontal -----														
1	13642.000	39.3	25.2	38.6	23.9	39.5	62.3	48.2	80.0	60.0	17.7	11.8	100	194
2	15003.470	34.7	21.1	39.6	28.9	39.0	64.2	50.6	80.0	60.0	15.8	9.4	100	29
3	16437.550	37.5	23.0	41.2	25.4	38.5	65.6	51.1	80.0	60.0	14.4	8.9	100	42
----- Vertical -----														
4	13502.810	40.4	25.1	38.8	23.8	39.5	63.5	48.2	80.0	60.0	16.5	11.8	100	27
5	14994.040	35.3	21.2	39.6	28.9	39.0	64.8	50.7	80.0	60.0	15.2	9.3	100	27
6	16547.700	37.2	24.1	41.5	25.2	38.5	65.4	52.3	80.0	60.0	14.6	7.7	100	197

Description of Calculation

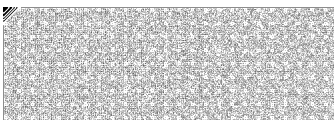
C.FACTOR(dB) :	Ant factor(dB) + Cable loss(dB) – Amp Gain(dB)
Result(dBμV) :	Reading Value(dBμV) + C.FACTOR(dB)
Margin(dBμV) :	Limit(dBμV) - Result(dBμV)



6. Photographs of Test Configuration

6.1 Photographs of Conducted Emission Test Configuration

N/A



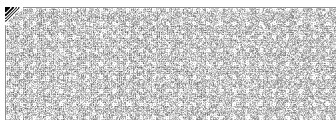
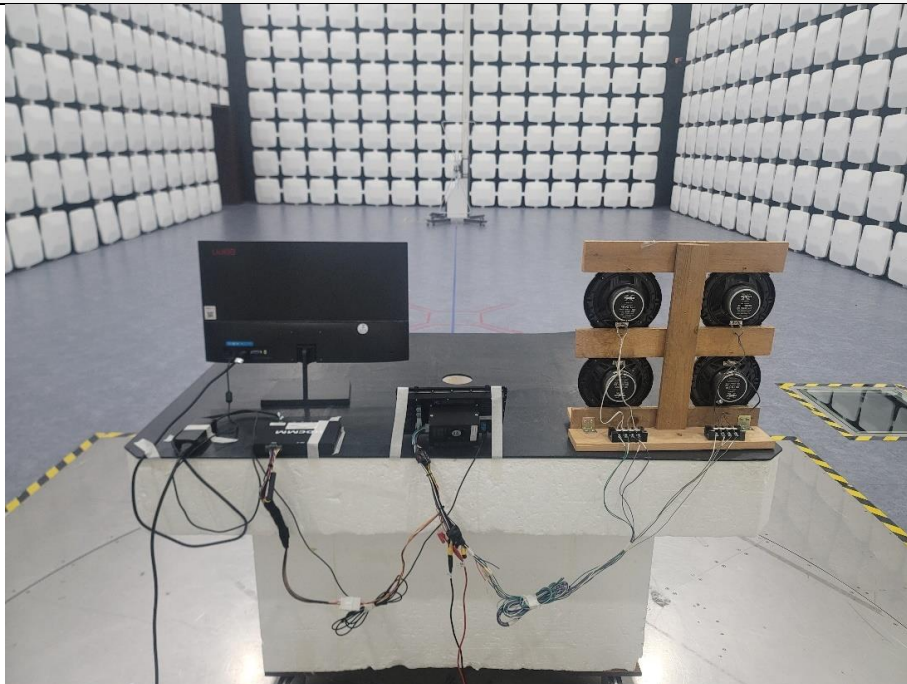
6.2 Photographs of Radiated Emission Test Configuration

[30 MHz – 1 GHz]

Front View of EUT



Rear View of EUT



[1 GHz – 18 GHz]

Front View of EUT



Rear View of EUT



7. Photographs of EUT

Front View of EUT



Rear View of EUT



- End of test report -

