

CERTIFICATION TEST REPORT

Report Number. : S-4791615583-E18V1

Applicant : SAMSUNG ELECTRONICS CO., LTD.
129 SAMSUNG-RO, YEONGTONG-GU, SUWON-SI,
GYEONGGI-DO, 16677, KOREA

Model : SM-S937U, SM-S937U1

FCC ID : A3LSMS937U

EUT Description : GSM/WCDMA/LTE/NTN/5G NR Phone + BT/BLE,
DTS/UNII a/b/g/n/ac/ax/be, NFC, WPT and UWB

Test Standard(s) : FCC 47 CFR PART 15 SUBPART E
KDB 987594 D02 v03

Date Of Issue:
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Revision History

Rev.	Issue Date	Revisions	Presented By
V1	2025-02-26	Initial issue	Dexter(Hyunsik) Yun

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1. ATTESTATION OF TEST RESULTS

COMPANY NAME: SAMSUNG ELECTRONICS CO., LTD.

EUT DESCRIPTION: GSM/WCDMA/LTE/NTN/5G NR Phone + BT/BLE, DTS/UNII
a/b/g/n/ac/ax/be, NFC, WPT and UWB.

MODEL NUMBER: SM-S937U, SM-S937U1

SERIAL NUMBER: R3CXC0G5AQJ, R3CXC0G5D8T, R3CXC0G5DMA (CONDUCTED);

DATE TESTED: 2025-02-15 ~ 2025-02-26

APPLICABLE STANDARDS	
STANDARD	TEST RESULTS
FCC 47 CFR PART 15 SUBPART E	Complies
KDB 987594 D02 v03	Complies

UL KOREA LTD. tested the above equipment in accordance with the requirements set forth in the above standards. All indications of Pass/Fail in this report are opinions expressed by UL KOREA LTD. based on interpretations and/or observations of test results. Measurement Uncertainties were not taken into account and are published for informational purposes only. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.

Note: The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein. This document may not be altered or revised in any way unless done so by UL KOREA LTD. and all revisions are duly noted in the revisions section. Any alteration of this document not carried out by UL KOREA LTD. will constitute fraud and shall nullify the document. This report must not be used by the client to claim product certification, approval, or endorsement by IAS, any agency of the Federal Government, or any agency of any government.

Approved & Released For
UL KOREA LTD. By:



Seokhwan Hong
Suwon Lab Engineer
UL KOREA LTD.

Tested By:



Dexter(Hyunsik) Yun
Suwon Lab Engineer
UL KOREA LTD.

2. TEST METHODOLOGY

1. KDB 987594 D02 v03
2. FCC 47 CFR PART 15 SUBPART E

3. FACILITIES AND ACCREDITATION

The test sites and measurement facilities used to collect data are located at 218 Maeyeong-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16675, Korea. Line conducted emissions are measured only at the 218 address. The following table identifies which facilities were utilized for radiated emission measurements documented in this report. Specific facilities are also identified in the test results sections.

218 Maeyeong-ro	
☒	Chamber 1(3m semi-anechoic chamber)
☒	Chamber 2(3m semi-anechoic chamber)
☒	Chamber 3(3m semi-anechoic chamber)
☐	Chamber 4(3m Full-anechoic chamber)
☐	Chamber 5(3m Full-anechoic chamber)

UL KOREA LTD. is accredited by IAS, Laboratory Code TL-637. The full scope of accreditation can be viewed at <https://www.iasonline.org/wp-content/uploads/2017/05/TL-637-cert-New.pdf>.

4. DECISION RULES AND MEASUREMENT UNCERTAINTY

4.1. METROLOGICAL TRACEABILITY

The measuring equipment utilized to perform the tests documented in this report has been calibrated in accordance with the manufacturer's recommendations and is traceable to recognized national standards.

4.2. SAMPLE CALCULATION

Where relevant, the following sample calculation is provided:

Corr'd Power [dBm] = ANT1 Meas. Power [dBm] + ANT2 Meas Power [dBm] + DCCF[dB]

4.3. MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus:

PARAMETER	UNCERTAINTY
RF Output Power	0.69 dB
Power Spectral Density	1.4 dB

Uncertainty figures are valid to a confidence level of 95%.

4.4. DECISION RULES

Decision rule for statement(s) of conformity is based on Clause 4.4.3 in IEC Guide 115:2023.

5. EQUIPMENT UNDER TEST

5.1. EUT DESCRIPTION

The EUT is a GSM/WCDMA/LTE/NTN/5G NR Phone + BT/BLE, DTS/UNII a/b/g/n/ac/ax/be, NFC, WPT and UWB. This test report addresses the VLP TPC verification.

Representative model	Difference	Derivative model
		SM-S937U1
SM-S937U	Hardware	Same as SM-S937U
	Software	Different UI

The model SM-S937U was used for final testing and is representative of the test results in this report.

5.2. DESCRIPTION OF TEST SETUP

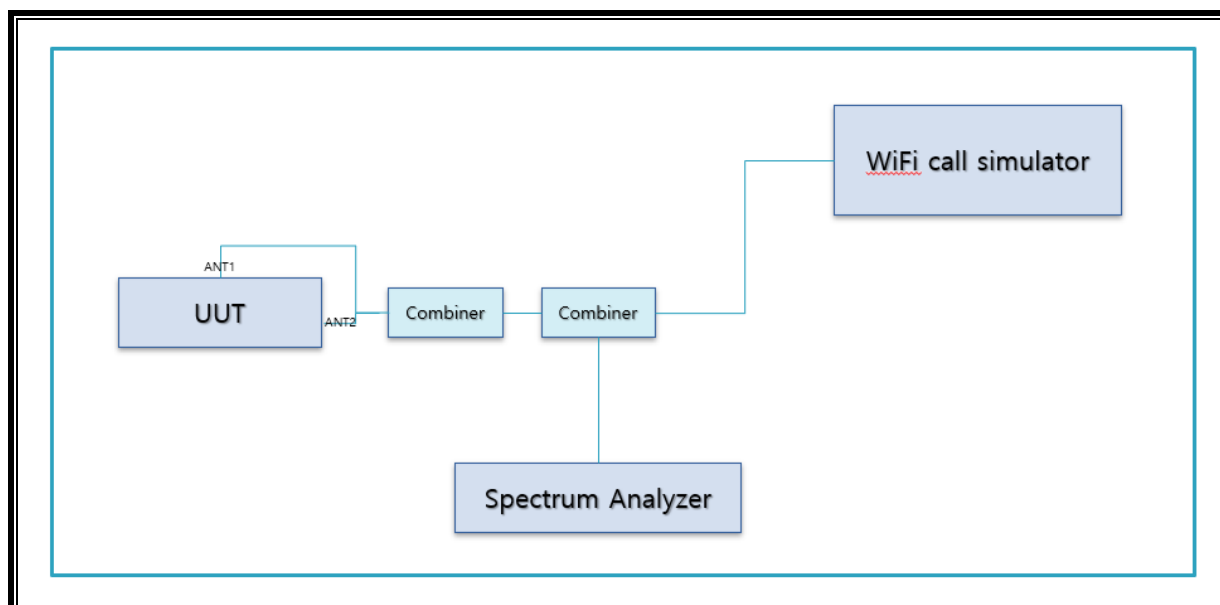
SUPPORT EQUIPMENT

Support Equipment List				
Description	Manufacturer	Model	Serial Number	FCC ID
Data Cable	SAMSUNG	EP-DN980	N/A	N/A

I/O CABLE

I/O Cable List						
Cable No.	Port	# of identical ports	Connector Type	Cable Type	Cable Length (m)	Remarks
1	DC Power	1	C Type	Shielded	1.0 m	N/A

SETUP DIAGRAM FOR TESTS (CONDUCTED TEST SETUP)



6. MEASUREMENT METHOD

Dual Client Test, Demonstration of Proper Power Adjustment based on Associated AP:
KDB 987594 D02 v02r01, Section K

Proper Power Adjustment, Client Devices Connected to a Standard Power Access Point:
KDB 987594 D02 v02r01, Section L

7. TEST AND MEASUREMENT EQUIPMENT

The following test and measurement equipment was utilized for the tests documented in this report:

Test Equipment List				
Description	Manufacturer	Model	S/N	Cal Due
Spectrum Analyzer, 44 GHz	KEYSIGHT	N9030B	MY60070693	2026-01-02
Attenuator	PASTERNAK	PE7087-10	A001	2025-07-23
Attenuator	PASTERNAK	PE7087-10	A008	2025-07-23
Termination	WEINSCHEL	M1406A	T09	2025-07-23
Power Splitter	WEINSCHEL	WA1534	UL007	2026-01-03
Power Splitter	WEINSCHEL	WA1534	UL008	2026-01-03
Radio Communication Tester	R&S	CMX500	101535	2025-08-14

8. TEST RESULTS SUMMARY

FCC Part Section	Test Description	Test Limit	Test Condition	Test Result
KDB 987594 Section K	Dual Client Test, Demonstration of Proper Power Adjustment based on Associated AP	-	Conducted	Complies
KDB 987594 Section L	Proper Power Adjustment, Client Devices Connected to a Standard Power Access Point	-	Conducted	Complies

9. Dual Client Power Verification

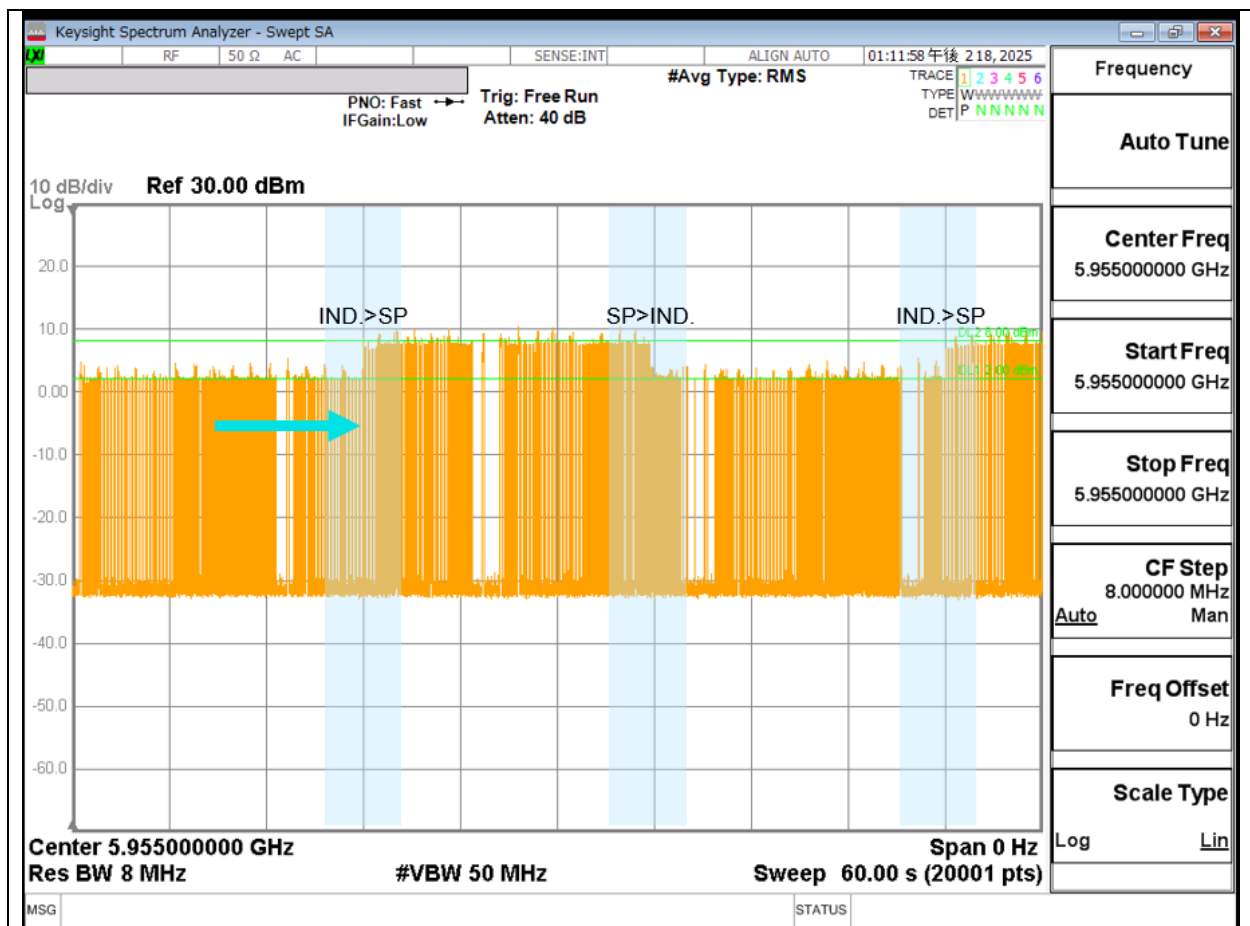
9.1. Dual Client Test, Demonstration of Proper Power Adjustment based on Associated AP

VERIFICATION PROCEDURE

KDB 987594 D02 v02r01, Section K

Since the standard power AP has not yet been officially released, verification is being conducted by replacing the AP with a WLAN Call Simulator (Forced operation).

RESULTS



- When changing from standard to indoor power mode, the power decreases by approximately 6dB.
- When changing from indoor to standard power mode, the power increases by approximately 6dB.
- Checked that standard and indoor power are forcibly changed. In the actual tune-up procedure, the target is the same (indoor & standard, all bandwidth). Please note.

Note. SP=Standard power mode, IND.=Indoor power mode

9.2. Proper Power Adjustment, Client Devices Connected to a Standard Power Access Point

VERIFICATION PROCEDURE

KDB 987594 D02 v02r01, Section L

Since the standard power AP has not yet been officially released, verification is being conducted by replacing the AP with a WLAN Call Simulator (Forced operation).

- Call Simulator's registered power is 36, 24, 15, 12 dBm EIRP

RESULTS

Mode	Freq. (MHz)	Call simulator registered power (dBm)	Measured EUT power level (dBm)			Result
			ANT1	ANT2	SUM	
HE20	6135	36	14.24	14.52	17.39	The client power is more than 6dB lower than the call simulator registered power.
		24	14.21	14.44	17.34	
		15	5.38	5.72	8.56	
		12	2.64	2.88	5.77	

- Registered power 36 & 24 dBm: registered power - 6dB is higher than EUT's target power (2Tx based, 12 dBm), so it operates according to target power.
- Registered power 15& 12 dBm: registered power - 6dB is lower than EUT's target power (2Tx based, 12 dBm), EUT' summed power operates with registered power -6dB.

END OF TEST REPORT