

TEST REPORT

Report Number: 15605535-E17V2

- Applicant : SAMSUNG ELECTRONICS CO., LTD. 129 SAMSUNG-RO, YEONGTONG-GU SUWON-SI, GYEONGGI-DO, 16677, KOREA
 - Model : SM-X626B
 - FCC ID : A3LSMX626B
- **EUT Description** : GSM/WCDMA/LTE/5G NR Tablet + BT/BLE, DTS/UNII a/b/g/n/ac/ax and Digitizer
 - Test :FCC 47 CFR PART 15 SUBPART CStandard(s)FCC 47 CFR PART 15 SUBPART EFCC 47 CFR PART 24 SUBPART E

Date Of Issue: 2025-02-20

Prepared by: UL VERIFICATION SERVICES INC. 47173 Benicia Street Fremont, CA 94538 U.S.A. TEL: (510) 319-4000 FAX: (510) 661-0888



REVISION HISTORY

Rev.	lssue Date	Revisions	Revised By
V1	2025-02-20	Initial Issue	
V2	2025-02-20	Section 3, 5.4, 9.2 Updated	Henry Lau

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1. ATTESTATION OF TEST RESULTS

COMPANY NAME:	SAMSUNG ELECTRONICS CO., LTD. 129 SAMSUNG-RO, YEONGTONG-GU SUWON-SI, GYEONGGI-DO, 16677, KOREA			
EUT DESCRIPTION:	GSM/WCDMA/LTE/5G NR Tablet + BT/BLE, DTS/UNII a/b/g/n/ac/ax and Digitizer			
MODEL:	SM-X626B			
SERIAL NUMBER:	Radiated: R32XC0006AD			
SAMPLE RECEIPT DATE:	2024-12-13			
DATE TESTED:	2025-02-12 to 2025-02-13			

APPLICABLE STANDARDS					
STANDARD	TEST RESULTS				
CFR 47 Part 15 Subpart C	Complies				
CFR 47 Part 15 Subpart E	Complies				
CFR 47 Part 24 Subpart E	Complies				

UL Verification Services Inc. tested the above equipment in accordance with the requirements set forth in the above standards. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.

The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein. It is the manufacturer's responsibility to assure that additional production units of this model are manufactured with identical electrical and mechanical components. All samples tested were in good operating condition throughout the entire test program. Measurement Uncertainties are published for informational purposes only and were not taken into account unless noted otherwise.

This document may not be altered or revised in any way unless done so by UL Verification Services Inc. and all revisions are duly noted in the revisions section. Any alteration of this document not carried out by UL Verification Services Inc. will constitute fraud and shall nullify the document.

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Approved & Released For UL Verification Services Inc. By:

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Francisco de Anda Staff Engineer Consumer Technology Division UL Verification Services Inc. Prepared By:

Henry men

Henry Lau Senior Project Engineer Consumer Technology Division UL Verification Services Inc.

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2. TEST RESULT SUMMARY

This report contains data provided by the customer which can impact the validity of results. UL Verification Services Inc. is only responsible for correctly integrating customer-provided data with measurements performed by Verification Services Inc..

Below is a list of the data provided by the customer:

- 1) Antenna gain and type (see section 6.2)
- 2) Cable Loss (see section 6.2)

FCC Clause	Requirement	Result	Comment	
See Commont	Duty Cyclo	Reporting	Per ANSI C63.10,	
See Comment	Duty Cycle	purposes only	Section 12.2.	
15.209, 15.205,	Radiated Emissions		None.	
15.407 (b)(1-5)	Undesirable Emissions	Complies		
24.238 (a)	Out of band Emissions			

3. TEST METHODOLOGY

The tests documented in this report were performed in accordance with;

- FCC CFR 47 Part 2
- FCC CFR 47 Part 15C
- FCC CFR 47 Part 15E
- FCC KDB 662911 Measurement of Transmitters with Multiple Output, MIMO
- FCC KDB 905462 D02/D03/D06
- FCC KDB 789033 D02 UNII Test Procedures New Rules
- FCC KDB 291074 D02 EMC Measurement v01 for 5.9GHz Device
- ANSI C63.10-2020
- FCC CFR 47 Part 24E

4. FACILITIES AND ACCREDITATION

UL Verification Services Inc. is accredited by A2LA, Certificate Number 0751.05, for all testing performed within the scope of this report. Testing was performed at the locations noted below.

	Address	ISED CABID	ISED Company Number	FCC Registration
\boxtimes	Building 1: 47173 Benicia Street, Fremont, CA 94538, USA			
	Building 2: 47266 Benicia Street, Fremont, CA 94538, USA			
	Building 3: 843 Auburn Court, Fremont, CA 94538, USA	US0104	2324A	550739
\boxtimes	Building 4: 47658 Kato Rd, Fremont, CA 94538, USA			
	Building 5: 47670 Kato Rd, Fremont, CA 94538, USA			

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5. DECISION RULES AND MEASUREMENT UNCERTAINTY

5.1. METROLOGICAL TRACEABILITY

All test and measuring equipment utilized to perform the tests documented in this report are calibrated on a regular basis, with a maximum time between calibrations of one year or the manufacturers' recommendation, whichever is less, and where applicable is traceable to recognized national standards.

5.2. DECISION RULES

The Decision Rule is based on Simple Acceptance in accordance with ISO Guide 98-4:2012 Clause 8.2. (Measurement uncertainty is not taken into account when stating conformity with a specified requirement.)

5.3. MEASUREMENT UNCERTAINTY

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

PARAMETER	U _{Lab}
Radio Frequency (Spectrum Analyzer)	141.16 Hz
Occupied Bandwidth	1.22%
Power Spectral Density	2.47 dB
RF Power Measurement Direct Method Using Power Meter	1.3 dB (PK) / 0.45 dB (AV)
Unwanted Emissions, Conducted	1.94 dB
Worst Case Conducted Disturbance, 9kHz to 0.15 MHz	3.78 dB
Worst Case Conducted Disturbance, 0.15 to 30 MHz	3.40 dB
Worst Case Radiated Disturbance, 9kHz to 30 MHz	2.87 dB
Worst Case Radiated Disturbance, 30 to 1000 MHz	6.01 dB
Worst Case Radiated Disturbance, 1000 to 18000 MHz	4.73 dB
Worst Case Radiated Disturbance, 18000 to 26000 MHz	4.51 dB
Worst Case Radiated Disturbance, 26000 to 40000 MHz	5.29 dB
Time Domain Measurements	3.39%
Temperature	0.57°C
Relative Humidity	3.39%
DC Supply Voltages	0.57%

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

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5.4. SAMPLE CALCULATION

RADIATED EMISSIONS

Where relevant, the following sample calculation is provided: Field Strength (dBuV/m) = Measured Voltage (dBuV) + Antenna Factor (dB/m) + Cable Loss (dB) – Preamp Gain (dB) 36.5 dBuV + 18.7 dB/m + 0.6 dB – 26.9 dB = 28.9 dBuV/m

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6. EQUIPMENT UNDER TEST

6.1. EUT DESCRIPTION

The EUT is a GSM/WCDMA/LTE/5G NR Tablet + BT/BLE, DTS/UNII a/b/g/n/ac/ax and Digitizer.

This report covers simultaneous Tx of the Radios.

6.2. MAXIMUM OUTPUT POWER & DESCRIPTION OF AVAILABLE ANTENNAS AND CABLE LOSS

Refer to reports 15605535-E1 to E13 for output power, antenna gain and type information.

6.3. WORST-CASE CONFIGURATION AND MODE

Test Case # Antenna		Mode	Frequency (MHz)
	WWAN Ant	GPRS	1850.2
1	DTS Ant 1	WLAN 2.4 GHz 11b	2437
2	WWAN Ant	GPRS	1850.2
2	DTS Ant 1 + Ant 2	WLAN 2.4 GHz 11b	5200
	WWAN Ant	GPRS	1850.2
3	UNII Ant 2	WLAN 5 GHz 11a	5180
	WWAN Ant	GPRS	1850.2
4	UNII Ant 1 + Ant 2	WLAN 5 GHz 11a	5180
-	WWAN Ant	GPRS	1850.2
5	BT Ant	BT GFSK	2480
	WWAN Ant	GPRS	1850.2
6	BT Ant	BT GFSK	2480
	UNII Ant 2	WLAN 5 GHz 11a	5180

Simultaneous TX table and test cases provided by manufacturer;

Investigation has been performed and no noticeable new emission were found.

Cases 2, 4, and 6 were tested to represent worst case.

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6.4. DESCRIPTION OF TEST SETUP

SUPPORT TEST EQUIPMENT							
Description Manufacturer Model Serial Number FCC ID/ DoC							
AC Adapter	Samsung	EP-TA800	R37WBAA004BDKA	N/A			
S-Pen	Samsung	N/A	N/A	N/A			
Keyboard	Samsung	DX625	N/A	N/A			

I/O CABLES (RF RADIATED)							
Cable No.	Port	# of Identical Ports	Connector Type	Cable Type	Cable Length (m)	Remarks	
1	USB-C	1	USB-C	Shielded	1	N/A	

TEST SETUP

The EUT is a stand-alone device configured and tested in a worst-case setup. Worst case is using Y orientation with AC charger attached to the EUT. Test software exercised the radio card.

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SETUP DIAGRAMS



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7. MEASUREMENT METHOD

Radiated emissions non-restricted frequency bands: ANSI C63.10 Subclause -11.11 & Clause 13

Radiated emissions restricted frequency bands: ANSI C63.10 Subclause -11.12.1 & Clause 13

Unwanted emissions in restricted bands: KDB 789033 D02, Sections G.3, G.4, G.5, and G.6.

Unwanted emissions in non-restricted bands: KDB 789033 D02, Sections G.3, G.4, and G.5.

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8. 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	ID Num	Cal Due	Last Cal		
Antenna, Horn 1-18GHz	ETS-Lindgren	3117	79834	2025-09-06	2024-09-06		
Antenna, Horn 1-18GHz	ETS-Lindgren	3117	206808	2025-04-30	2024-04-23		
RF Filter Box, 1-18GHz, F2A, 12 Ports	UL-FR1	F2A	237579	2025-10-31	2024-10-03		
RF Filter Box, 1-18GHz	UL-FR1	SAC 8 port rf box 1	197920	2025-03-31	2024-03-30		
EMI TEST RECEIVER	Rohde & Schwarz	ESW44	225688	2025-02-28	2024-02-11		
EMI TEST RECEIVER	Rohde & Schwarz	ESW44	169935	2025-02-28	2024-02-11		
Wideband Communication Test Set, Call Box	Rohde & Schwarz	CMW500	230295	2025-02-28	2024-02-22		
Bluetooth Tester	Rohde & Schwarz	CBT	81929	2025-03-31	2024-03-01		
UL TEST SOFTWARE LIST							
Radiated Software	Radiated Software UL UL EMC Ver 2024-08-15, 2023-03, 2023-05-01						

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9. SIMULTANEOUS TRANSMISSION TEST RESULTS

9.1. ON TIME AND DUTY CYCLE

Note – The following duty cycle data is re-used from the UL Verification services Inc. report numbers 15605535-E8, E10, and E12:

ON TIME AND DUTY CYCLE RESULTS

2.4GHz Band

Mode	ON Time	Period	Duty Cycle	Duty	Duty Cycle	1/T
	т		х	Cycle	Correction Factor	Minimum VBW
	(msec)	(msec)	(linear)	(%)	(dB)	(kHz)
2.4GHz Band						
802.11b	8.615	8.765	0.983	98.29	0.00	0.010

5GHz Band

Mode	ON Time Period		Duty Cycle	Duty	Duty Cycle	1/T
	т		x	Cycle	Correction Factor	Minimum VBW
	(msec)	(msec)	(linear)	(%)	(dB)	(kHz)
802.11a	1.424	1.526	0.933	93.32	0.30	0.702

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9.2. LIMITS AND PROCEDURE

FCC: §24.238(a)

Out of band emissions. The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least 43 + 10 log(P) dB.

FCC §15.205 and §15.209

FCC §15.407(b)(1-4)

Frequency Range (MHz)	Field Strength Limit (uV/m) at 3 m	Field Strength Limit (dBuV/m) at 3 m
0.009-0.490	2400/F(kHz) @ 300 m	-
0.490-1.705	24000/F(kHz) @ 30 m	-
1.705 - 30	30 @ 30m	-
30 - 88	100	40
88 - 216	150	43.5
216 - 960	200	46
Above 960	500	54

TEST PROCEDURE

The EUT is placed on a non-conducting table 80 cm above the ground plane for measurement below 1GHz; 1.5 m above the ground plane for measurement above 1GHz. The antenna to EUT distance is 3 meters. The EUT is configured in accordance with ANSI C63.10. The EUT is set to transmit in a continuous mode.

For pre-scans above 1 GHz the resolution bandwidth is set to 1 MHz; the video bandwidth is set to 30 KHz for peak measurements.

For final measurements above 1 GHz the resolution bandwidth is set to 1 MHz; the video bandwidth is set to 3 MHz for peak measurements and as applicable for average measurements.

The spectrum from 1GHz to 18GHz was set to the worst case channel in the respective , 1.8GHz, 2.4GHz and 5GHz bands.

The frequency range of interest is monitored at a fixed antenna height and EUT azimuth. The EUT is rotated through 360 degrees to maximize emissions received. The antenna is scanned from 1 to 4 meters above the ground plane to further maximize the emission. Measurements are made with the antenna polarized in both the vertical and the horizontal positions.

Base on FCC 15.31 (f) (2): measurements may be performed at a distance closer than that specified in the regulations; however, an attempt should be made to avoid making measurements in the near field.

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9.3. SPURIOUS EMISSIONS FOR COLLOCATION

9.3.1. TEST CASE 2



Ant 1 & Ant 2 GPRS + Ant 1 & Ant 2 WLAN 2.4GHz 11b



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RADIATED EMISSIONS

Marker	Frequency	Meter	Det	206808 ACF (dB/m)	Amp/Cbl/Fltr	Corrected	Avg Limit	Margin	Peak Limit	PK	Azimuth	Height	Polarity
	(MHz)	Reading			(dB)	Reading	(dBuV/m)	(dB)	(dBuV/m)	Margin	(Degs)	(cm)	
		(dBuV)				(dBuV/m)				(dB)			
3	* 3700.442	56.92	PK2	33.5	-42	48.42	-	-	74	-25.58	164	109	Н
	* 3700.259	45.82	MAv1	33.5	-42	37.32	54	-16.68	-		164	109	Н
4	* 4873.965	61.71	PK2	34.1	-41	54.81	-	-	74	-19.19	282	111	Н
	* 4874.005	58.74	MAv1	34.1	-41	51.84	54	-2.16	-	-	282	111	Н
7	* 7400.44	54.64	PK2	35.6	-38.5	51.74	-	-	74	-22.26	215	347	Н
	* 7400.698	42.16	MAv1	35.6	-38.5	39.26	54	-14.74	-		215	347	Н
10	* 3700.561	59.56	PK2	33.5	-42	51.06	-	-	74	-22.94	201	375	V
	* 3700.495	47.73	MAv1	33.5	-42	39.23	54	-14.77	-	-	201	375	V
11	* 4874.06	60.72	PK2	34.1	-41	53.82	-	-	74	-20.18	253	201	V
	* 4874.005	57.45	MAv1	34.1	-41	50.55	54	-3.45	-	-	253	201	V
14	* 7401.126	52.96	PK2	35.6	-38.5	50.06	-	-	74	-23.94	157	384	V
	* 7400.748	40.57	MAv1	35.6	-38.5	37.67	54	-16.33	-	-	157	384	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band PK2 - KDB558074 Method: Maximum Peak MAv1 - KDB558074 Option 1 Maximum RMS Average

Note:

Markers 15, 16, 17, 18 are GPRS downlink

The GPRS limit is -13 dBm or 84.38 dBuV/m at 3m. All emissions are passing the worst case limit of 54(Avg) & 74(Pk) dBuV/m at 3m therefore provides margin to the limit.

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9.3.2. TEST CASE 4

Ant 1 + Ant 2 GPRS + Ant 1 & Ant 2 WLAN 5GHz 11a



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RADIATED EMISSIONS

Marker	Frequency (MHz)	Meter Reading	Det	79834 ACF (dB)	DCCF (dB)	Gain/Loss (dB)	Corrected Reading	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin	UNII Non- restricted	PK Margin	Azimuth (Degs)	Height (cm)	Polarity
		(dBuV)					(dBuV/m)				(dB)	(dBuV/m)	(dB)			
1	* 3700.25	63.72	PK-U	32.9	0	-45.06	51.56	-	-	74	-22.44		-	97	132	Н
	* 3700.142	52.83	ADR	32.9	0.30	-45.05	40.98	54	-13.02	-	-	-	-	97	132	н
6	* 3700.29	63.74	PK-U	32.9	0	-45.06	51.58	-		74	-22.42	-		213	293	V
	* 3700.465	53.07	ADR	32.9	0.30	-45.06	41.21	54	-12.79	-			-	213	293	V
2	5550.614	47.31	PK-U	34.6	0	-23.2	58.71	-	-	-	-	68.2	-9.49	57	276	Н
7	5550.688	54.52	PK-U	34.6	0	-23.19	65.93	-	-	-	-	68.2	-2.27	86	190	V
3	* 7400.452	63.06	PK-U	35.3	0	-43.93	54.43	-	-	74	-19.57		-	270	177	Н
	* 7400.764	51.42	ADR	35.3	0.30	-43.91	43.11	54	-10.89	-			-	229	243	V
8	* 7400.848	51.06	ADR	35.3	0.30	-43.9	42.76	54	-11.24	-	-	-	-	270	177	Н
	* 7401.105	62.61	PK-U	35.3	0	-43.89	54.02	-	-	74	-19.98	-	-	229	243	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band PK-U - U-NII: Maximum Peak ADR - U-NII AD primary method, RMS average

Note:

Markers 4, 5, 9, 10 are GPRS Downlink

The GPRS limit is -13 dBm or 84.38 dBuV/m at 3m. All emissions are passing the worst case limit of 54 dBuV/m(Avg) & 74 dBuV/m (Pk) at 3m in the restricted band or 68.2 dBuV/m at 3m in the non-restricted band, therefore 84.38 dBuV/m limit is met with good margin.

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9.3.3. TEST CASE 6





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RADIATED EMISSIONS

Marker	Frequency (MH ₇)	Meter	Det	79834 ACF	DCCF(dB)	Gain/Loss	Corrected	Avg Limit	Margin (dB)	Peak Limit	PK Margin	UNII Non-restricted	PK	Azimuth	Height	Polarity
	(11112)	(dBuV)		(05)		(02)	(dBuV/m)	(abaviii)	(ub)	(ubut/iii)	(dB)	(dBdV/m)	(dB)	(Degs)	(ciii)	
2	* 3700.598	63.17	PK-U	32.9	0	-45.07	51		-	74	-23	68.2	-17.2	105	176	Н
	* 3700.21	51.86	ADR	32.9	.30	-45.06	40	54	-14		-	-	-	105	176	Н
8	* 3700.685	63.87	PK-U	32.9	0	-45.07	51.7		-	74	-22.3	68.2	-16.5	250	351	V
	* 3700.378	52.39	ADR	32.9	.30	-45.06	40.53	54	-13.47		-	-	-	250	351	V
3	5550.598	44.76	PK-U	34.6	0	-23.2	56.16		-	-	-	68.2	-12.04	85	354	Н
10	5550.688	51.02	PK-U	34.6	0	-23.19	62.43		-	-	-	68.2	-5.77	160	150	V
4	* 7400.608	60.73	PK-U	35.3	0	-43.92	52.11		-	74	-21.89	68.2	-16.09	272	311	Н
	* 7400.8	49.26	ADR	35.3	.30	-43.91	40.95	54	-13.05		-	-	-	272	311	Н
11	* 7400.559	61.45	PK-U	35.3	0	-43.93	52.82		-	74	-21.18	68.2	-15.38	129	319	V
	* 7400.829	49.74	ADR	35.3	.30	-43.9	41.44	54	-12.56		-	-	-	129	319	V

 * - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

Note:

Markers 5,6,12,13 are downlink from GPRS signal

The GPRS limit is -13 dBm or 84.38 dBuV/m at 3m. All emissions are passing the worst case limit of 54(Avg) & 74(Pk) dBuV/m at 3m in the restricted band or 68.2 dBuV/m at 3m in the non-restricted band therefore, 84.38 dBuV/m limit is met with good margin..

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10. SETUP PHOTOS

Please refer to 15605535-EP1 for setup photos

END OF TEST REPORT

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