

# **CERTIFICATION TEST REPORT**

**Report Number.**: 4791196626-E11V2

Applicant: SAMSUNG ELECTRONICS CO., LTD.

129 SAMSUNG-RO, YEONGTONG-GU, SUWON-SI,

GYEONGGI-DO, 16677, KOREA

Model: SM-F956B, SM-F956B/DS

FCC ID : A3LSMF956B

**EUT Description**: GSM/WCDMA/LTE/5G NR Phone + BT/BLE, DTS/UNII a/b/g/n/ac/ax,

NFC, WPT and UWB

Test Standard(s): FCC 47 CFR PART 15 SUBPART C

## Date Of Issue:

2024-05-14

## Prepared by:

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REPORT NO: 4791196626-E11V2 FCC ID: A3LSMF956B

## **Revision History**

Rev.	Issue Date	Revisions	Revised By
V1	2024-05-02	Initial issue	Dexter(Hyunsik) Yun
V2	2024-05-14	Updated to address TCB's question	Dexter(Hyunsik) Yun

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REPORT NO: 4791196626-E11V2 FCC ID: A3LSMF956B

## 1. ATTESTATION OF TEST RESULTS

**COMPANY NAME:** SAMSUNG ELECTRONICS CO., LTD.

**EUT DESCRIPTION:** GSM/WCDMA/LTE/5G NR Phone + BT/BLE, DTS/UNII a/b/g/n/ac/ax,

NFC, WPT and UWB

MODEL NUMBER: SM-F956B, SM-F956B/DS

SERIAL NUMBER: R3CX10SANYE, R3CX10SANMD, R3CX403N9CM (RADIATED);

**DATE TESTED:** 2024-02-20 ~ 2024-05-02

#### APPLICABLE STANDARDS

STANDARD

**TEST RESULTS** 

DATE: 2024-05-14

CFR 47 Part 15 Subpart C

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:

Tested By:

Seokhwan Hong Suwon Lab Engineer UL KOREA LTD. Dexter(Hyunsik) Yun Suwon Lab Engineer UL KOREA LTD. REPORT NO: 4791196626-E11V2 FCC ID: A3LSMF956B

#### 2. TEST METHODOLOGY

The tests documented in this report were performed in accordance with following methods.

- 1. FCC CFR 47 Part 2.
- 2. FCC CFR 47 Part 15.
- 3. ANSI C63.10-2013.
- 4. KDB 680106 D01 RF Exposure Wireless Charging Apps v03.

## 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 <a href="https://www.iasonline.org/wp-content/uploads/2017/05/TL-637-cert-New.pdf">https://www.iasonline.org/wp-content/uploads/2017/05/TL-637-cert-New.pdf</a>.

## 4. CALIBRATION AND UNCERTAINTY

#### 4.1. MEASURING INSTRUMENT CALIBRATION

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:

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

Corrected Reading (dBuV) = Meter Reading (dBuV) + External Cable (dB) + Cableloss (dB) 46.62 dBuV + 9.8 dB + 0.1 dB = 56.52 dBuV

#### 4.3. MEASUREMENT UNCERTAINTY

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

PARAMETER	UNCERTAINTY
Conducted Disturbance, 0.15 to 30 MHz	2.79 dB
Radiated Disturbance, 9 kHz to 30 MHz	1.69 dB
Radiated Disturbance, 30 MHz to 1 GHz	4.07 dB

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

#### 4.4. DECISION RULE

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. DESCRIPTION OF EUT

The EUT is a GSM/WCDMA/LTE/5G NR Phone + BT/BLE, DTS/UNII a/b/g/n/ac/ax, NFC, WPT and UWB. This test report addresses the wireless low power transmitter(DCD) operational mode.

Representative model	Difference	Derivative model SM-F956B/DS
SM-F956B	Hardware	Different Sim Tray
SIVI-LA200	Software	Same as SM-F956B

The model SM-F956B was used for final testing and is representative of the test results in this report.

## 5.2. MAXIMUM E-FIELD STRENGTH

#### - Mode 1

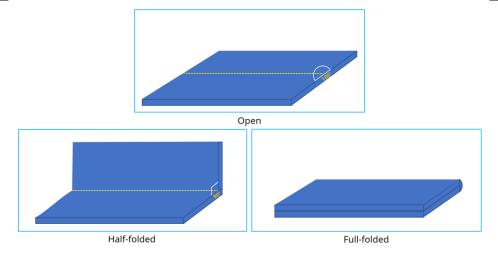
Fundamental Frequency (kHz)	Test Case	E-Field (30m distance) FCC (dBuV/m)
110 - 148	3	9.65

#### - Mode 2

Fundamental Frequency (kHz)	Test Case	E-Field (30m distance) FCC (dBuV/m)
531 - 593	8	11.60

## 5.3. PRELIMINARY TEST CONFIGURATIONS

	Power sharing mode	Digitizer
Worst case of antenna axis	X	Z
Foldable condition	Half-folded	Half-folded



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## 5.4. WORST-CASE CONFIGURATION AND MODE

Mode 1	Test Case	Description		
	1	Charging from EUT to Phone		
	2	Charging from EUT(Charging from TA) to Phone		
Dower charing mode	3	Charging from EUT to Phone (Cross position)		
Power sharing mode	4	Charging from EUT(Charging from TA) to Phone (Cross position)		
	5	Charging from EUT to Wearable device		
	6	Charging from EUT(Charging from TA) to Wearable device		

Mode 2	Test Case	t Case Description		
Digitizar	7	Scan the S-Pen on the display fo the EUT		
Digitizer	8	Scan the S-Pen on the display fo the EUT(with TA)		

For radiated test, test case 1/3/5/7, the EUT can operate the power sharing mode when battery level is over 30%. Because test results are not different between fully charged status and battery level 30% status(EUT condition), test were performed fully charged condition.

Also according to current client device's (Phone and Wearable device) battery level, test results are different. Because the test results were worst when the battery level was 1%~20%, tests were performed when the battery level was 1%~20%. (Client device)

For S-pen, both fully charged and non-fully charged condition were investigated, test case 7/8/9 were performed non-fully charged condition as worst case.

During radiated test for test case 1/3/5/7, the EUT didn't connected AC adapter, but for AC line conducted test for all test case was performed with connected with AC adapter.

Test results of case 3 is worst case and Digitizer mode, test results of case 8 is worst, so this test report described test case 3 and test case 8.

In test case 8, button press mode[F2: Button](531 kHz) is worse than hover mode[F1: Pen tip](593 kHz); therefore, only button press mode was reported.

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## 5.5. MODIFICATIONS

No modifications were made during testing.

## 5.6. DESCRIPTION OF TEST SETUP

## **SUPPORT EQUIPMENT & PERIPHERALS**

Support Equipment List						
Description	Description Manufacturer Model Serial Number FCC ID					
Charger	SAMSUNG	EP-TA800	R37N9QP6H09DK3	N/A		
Data Cable	SAMSUNG	EP-DN980	GH39-02111A	N/A		

#### **I/O CABLES**

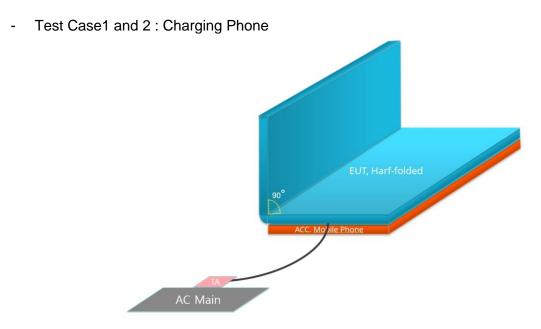
I/O Cable List						
Cable No. Port # of identical ports Connector Type Cable Type (m) Remarks						Remarks
1	DC Power	1	С Туре	Shielded	1.0 m	N/A

## **TEST SETUP**

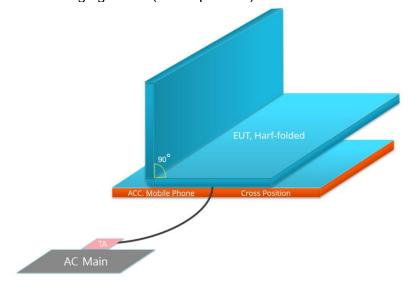
The EUT is installed in a typical configuration. Charging from EUT.

## **TEST SETUP DIAGRAM**

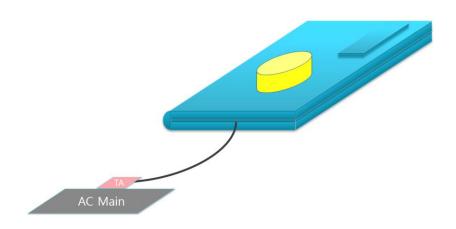
NOTE: Test case 1/3/5/7, EUT did not connected with Travel adapter(AC Main) in below set-up diagram for radiated test.



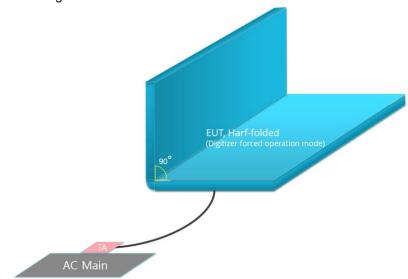
- Test Case 3 and 4 : Charging Phone(Cross position)



Test Case 5 and 6: Charging Wearable device



Test case 7 and 8: Digitizer



# **6. TEST AND MEASUREMENT EQUIPMENT**

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

	Test Eq	uipment List			
Description	Manufacturer	Model	S/N	Cal Due	
Antenna, Bilog, 30MHz-1GHz	SCHWARZBECK	VULB9163	845	2024-08-15	
Antenna, Bilog, 30MHz-1GHz	SCHWARZBECK	VULB9163	749	2024-08-15	
Preamplifier, 1000 MHz	Sonoma	310N	341282	2024-07-24	
Preamplifier, 1000 MHz	Sonoma	310N	351741	2024-07-24	
Spectrum Analyzer, 7 GHz	Agilent / HP	N9010A	MY54200580	2024-07-23	
Spectrum Analyzer, 44 GHz	KEYSIGHT	N9030A	MY54170614	2024-07-24	
EMI Test Receive, 3 GHz	R&S	ESR3	101832	2024-07-23	
DC Power Supply	Agilent / HP	E3640A	MY54226395	2024-07-24	
Temperature Chamber	ESPEC	SH-642	93001109	2024-07-24	
LISN	R&S	ENV-216	101836	2024-07-23	
LISN	R&S	ENV-216	101837	2024-07-23	
Antenna, Loop, 9kHz-30MHz	R&S	HFH2-Z2	100418	2025-09-06	
	UL	Software			
Description	Manufacturer	Model	Version		
Radiated software	UL	UL EMC	Ver 9.5		
AC Line Conducted software	UL	UL EMC	Ver 9.5		

## 7. APPLICABLE LIMITS AND TEST RESULTS

## 7.1. RADIATED EMISSIONS

#### **TEST PROCEDURE**

ANSI C63.10: 2013

The highest clock frequency generated or used in the EUT is 600 kHz therefore the frequency range was investigated from 9 kHz to 30 MHz.

#### LIMIT

FCC §15.209 (a)

ICES-001 Section 6.2, IC RSS-216 6.2.2, and IC RSS-GEN Sections 8.9 and 8.10.

Frequency	Field Strength	Measurement Distance
(MHz)	(microvolts/meter)	(m)
0.009-0.490	2400/F(kHz)	300
0.490–1.705	24000/F(kHz)	30
1.705–30.0	30	30
30–88	100	3
88 to 216	150	3
216 to 960	200	3
Above 960 MHz	500	3
Note: The lower limit shall a	apply at the transition frequenc	cy.

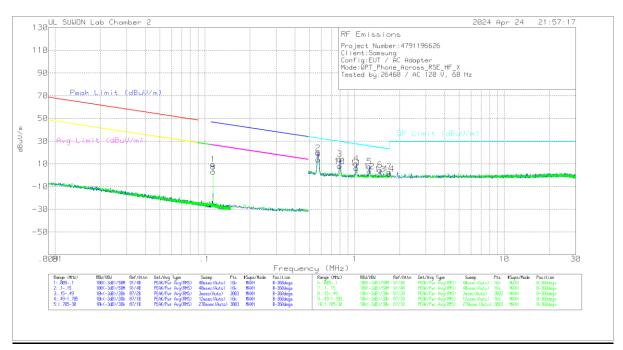
#### **RESULTS**

The EUT belongs to Test Case 4 and 7 and 10 and 12.

Although these tests were performed other than open field test site, adequate comparison measurements were confirmed against 300 m open field test site.

Therefore sufficient tests were made to demonstrate that the alternative site produces results that correlate with the ones of tests made in an open field based on KDB 414788 D01.

## RADIATED EMISSIONS 9 KHz to 30 MHz(Power sharing mode Test Case 3)



#### **TEST DATA**

## **Trace Markers**

[Face on]												
Marker	Frequenc y (MHz)	Meter Reading (dBuV)	Det	Antenna Correction Factor(dB/m)	Cable Loss(dB)	Dist Corr 300m(dB)	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	Margin (dB)	Avg Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)
**1	.11339	69.55	Pk	20	.1	-80	9.65	46.54	-36.89	26.54	-16.89	0-360
	-	-	-		-		-	_		_	-	

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Antenna Correction Factor(dB/m)	Cable Loss (dB)	Dist Corr 30m(dB)	Corrected Reading (dBuV/m)	QP Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)
2	.57014	39.66	Pk	19.9	.1	-40	19.66	32.49	-12.83	0-360
3	.79753	34.1	Pk	19.9	.2	-40	14.2	29.58	-15.38	0-360
4	1.02553	29.99	Pk	19.9	.2	-40	10.09	27.4	-17.31	0-360
5	1.25505	27.51	Pk	19.9	.2	-40	7.61	25.65	-18.04	0-360
6	1.48518	24.61	Pk	19.9	.2	-40	4.71	24.2	-19.49	0-360
7	1.70414	22.49	Pk	20	.2	-40	2.69	23	-20.31	0-360

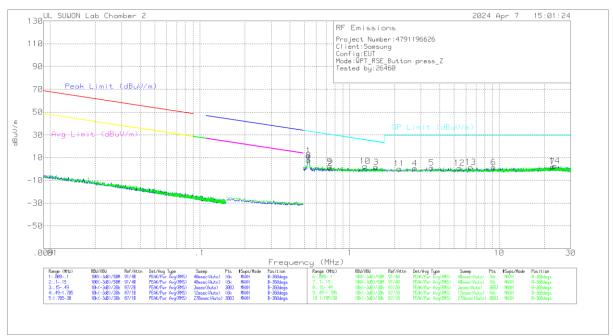
-	Face off]												
	Marker	Frequenc y (MHz)	Meter Reading (dBuV)	Det	Antenna Correction Factor(dB/m)	Cable Loss(dB)	Dist Corr 300m(dB)	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	Margin (dB)	Avg Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)
ſ	**8	.11338	63.03	Pk	20	.1	-80	3.13	46.54	-43.41	26.54	-23.41	0-360

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Antenna Correction Factor(dB/m)	Cable Loss (dB)	Dist Corr 30m(dB)	Corrected Reading (dBuV/m)	QP Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)
9	.57037	33.85	Pk	19.9	.1	-40	13.85	32.48	-18.63	0-360
10	.79548	27.77	Pk	19.9	.2	-40	7.87	29.6	-21.73	0-360
11	1.02835	26.32	Pk	19.9	.2	-40	6.42	27.38	-20.96	0-360
12	1.25528	23.23	Pk	19.9	.2	-40	3.33	25.65	-22.32	0-360
13	1.48351	20.75	Pk	19.9	.2	-40	.85	24.21	-23.36	0-360
14	1.705	20.81	Pk	20	.2	-40	1.01	23	-21.99	0-360

Pk - Peak detector \*\*Fundamental

Note: Radiated test were investigated with three receiving antenna axes: Face-on, Face-off and horizontal (parallel to the ground plane) and the worse orientations of Face-on and Face-off were set for final test.

#### RADIATED EMISSIONS 9 KHz to 30 MHz(Digitizer mode\_Test case 8)



#### **TEST DATA**

## **Trace Markers**

Face on

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Antenna Correction Factor(dB/m)	Cable Loss(dB)	Dist Corr 30m(dB)	Corrected Reading (dBuV/m)	QP Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)
**1	.53153	31.6	Pk	19.9	.1	-40	11.6	33.1	-21.5	0-360
2	.74563	20.58	Pk	19.9	.2	-40	.68	30.16	-29.48	0-360
3	1.50464	21.4	Pk	20	.2	-40	1.6	24.08	-22.48	0-360
4	2.73233	20.12	Pk	20.1	.3	-40	.52	29.5	-28.98	0-360
5	3.53345	20.69	Pk	20.1	.3	-40	1.09	29.5	-28.41	0-360
6	9.15075	20.82	Pk	20	.5	-40	1.32	29.5	-28.18	0-360
7	22.72275	20.56	Pk	20.6	.7	-40	1.86	29.5	-27.64	0-360

#### Face off

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	Antenna Correction Factor(dB/m)	Cable Loss(dB)	Dist Corr 30m(dB)	Corrected Reading (dBuV/m)	QP Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)
**8	.53252	27.68	Pk	19.9	.1	-40	7.68	33.08	-25.4	0-360
9	.73738	22.28	Pk	19.9	.1	-40	2.28	30.26	-27.98	0-360
10	1.26995	22.27	Pk	19.9	.2	-40	2.37	25.55	-23.18	0-360
11	2.14798	20	Pk	20	.2	-40	.2	29.5	-29.3	0-360
12	5.40903	20.37	Pk	20.1	.4	-40	.87	29.5	-28.63	0-360
13	6.44578	21.01	Pk	20.1	.4	-40	1.51	29.5	-27.99	0-360
14	23.42963	21.54	Pk	20.6	.7	-40	2.84	29.5	-26.66	0-360

Pk - Peak detector

\*\*Fundamental

Note 1: Radiated test were investigated with three receiving antenna axes: Face-on, Face-off and horizontal (parallel to the ground plane) and the worse orientations of Face-on and Face-off were set for final test.

## 7.2. AC MAINS LINE CONDUCTED EMISSIONS

#### **TEST PROCEDURE**

ANSI C63.10: 2013

The EUT is placed on a non-conducting table 40 cm from the vertical ground plane and 80 cm above the horizontal ground plane. The EUT is configured in accordance with ANSI C63.10.

The receiver is set to a resolution bandwidth of 9 kHz. Peak detection is used unless otherwise noted as quasi-peak or average.

Line conducted data is recorded for both NEUTRAL and HOT lines.

#### LIMIT

FCC §15.207 (a)

Frequency range	Limits (dBµV)					
(MHz)	Quasi-peak	Average				
0.15 to 0.50	66 to 56*	56 to 46*				
0.50 to 5	56	46				
5 to 30	60	50				
*Decreases with the logarithm	of the frequency.					

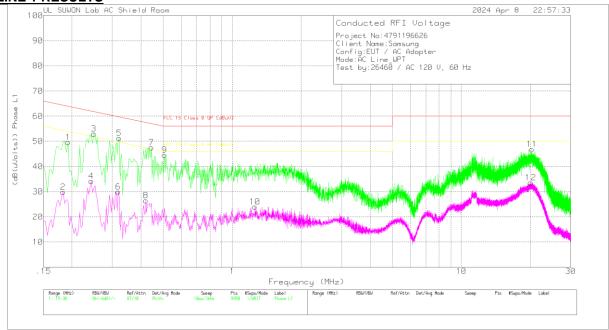
#### **RESULTS**

The EUT belongs to Test Case 8(worst case).

#### **WORST EMISSIONS (Digitizer mode Test Case 8)**

#### Line-L1 .15 - 30MHz

#### **LINE 1 RESULTS**



#### **Trace Markers**

Range 1: Phase L1 .15 - 30MHz

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	101836_Wit h EX_L1 [dB]	Cable Loss [dB]	Corrected Reading (dB(uVolts))	FCC 15 Class B QP [dBuV]	Margin (dB)	FCC 15 Class B AV [dBuV]	Margin (dB)
1	.192	39.7	Pk	9.9	.1	49.7	63.95	-14.25	-	-
2	.183	19.83	Av	9.9	.1	29.83	-	-	54.35	-24.52
3	.249	43.29	Pk	9.6	.1	52.99	61.79	-8.8	-	-
4	.243	24.45	Av	9.7	.1	34.25	-	-	51.99	-17.74
5	.321	41.52	Pk	9.7	.1	51.32	59.68	-8.36	-	-
6	.318	20.2	Av	9.7	.1	30	-	-	49.76	-19.76
7	.444	37.72	Pk	9.8	.1	47.62	56.99	-9.37	-	-
8	.42	16.62	Av	9.8	.1	26.52	-	-	47.45	-20.93
9	.507	34.57	Pk	9.9	.1	44.57	56	-11.43	-	-
10	1.257	14.25	Av	9.7	.1	24.05	-	-	46	-21.95
11	20.292	36.38	Pk	10.2	.3	46.88	60	-13.12	-	-
12	20.079	23.05	Av	10.2	.3	33.55	-	-	50	-16.45

Pk - Peak detector Av - Average detection

## **Quasi-Peak Emissions**

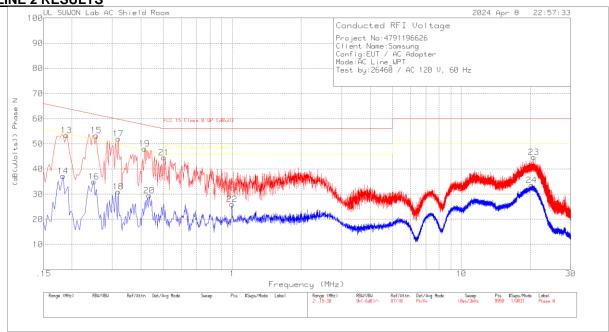
Range 1: Phase L1 .15 - 30MHz

rtungo i.	i nacc Li.	10 00	IVII 12						
Frequency (MHz)	Meter Reading (dBuV)	Det	101836_With EX_L1 [dB]	Cable Loss [dB]	Corrected Reading (dB(uVolts))	FCC 15 Class B QP [dBuV]	Margin (dB)	FCC 15 Class B AV [dBuV]	Margin (dB)
.24975	37.55	Qp	9.6	.1	47.25	61.77	-14.52	-	-
.32175	38.87	Qp	9.7	.1	48.67	59.66	-10.99	-	-
.44475	17.54	Qp	9.8	.1	27.44	56.97	-29.53	-	-

Qp - Quasi-Peak detector

#### Line-L2 .15 - 30MHz

## **LINE 2 RESULTS**



## **Trace Markers**

Range 2: Phase N .15 - 30MHz

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	101836_Wit h EX_N [dB]	Cable Loss [dB]	Corrected Reading (dB(uVolts))	FCC 15 Class B QP [dBuV]	Margin (dB)	FCC 15 Class B AV [dBuV]	Margin (dB)
13	.189	43.42	Pk	9.9	.1	53.42	64.08	-10.66	-	-
14	.183	27.21	Av	9.9	.1	37.21	-	-	54.35	-17.14
15	.255	43.66	Pk	9.6	.1	53.36	61.59	-8.23	-	-
16	.249	25.22	Av	9.6	.1	34.92	-	-	51.79	-16.87
17	.318	42.27	Pk	9.7	.1	52.07	59.76	-7.69	-	-
18	.318	21.21	Av	9.7	.1	31.01	-	-	49.76	-18.75
19	.414	38.21	Pk	9.8	.1	48.11	57.57	-9.46	-	-
20	.435	19.61	Av	9.8	.1	29.51	-	-	47.16	-17.65
21	.504	34.61	Pk	9.9	.1	44.61	56	-11.39	-	-
22	.999	16.12	Av	9.8	.1	26.02	-	-	46	-19.98
23	20.697	34.15	Pk	10.3	.3	44.75	60	-15.25	-	-
24	20.253	22.97	Av	10.3	.3	33.57	-	-	50	-16.43

Pk - Peak detector Av - Average detection

## **Quasi-Peak Emissions**

Range 2: Phase N .15 - 30MHz

Frequency (MHz)	Meter Reading (dBuV)	Det	101836_With EX_N [dB]	Cable Loss [dB]	Corrected Reading (dB(uVolts))	FCC 15 Class B QP [dBuV]	Margin (dB)	FCC 15 Class B AV [dBuV]	Margin (dB)
.25425	40.89	Qp	9.6	.1	50.59	61.62	-11.03	-	-
.31875	38.73	Qp	9.7	.1	48.53	59.74	-11.21	-	-
.41475	37.62	Qp	9.8	.1	47.52	57.55	-10.03	-	-

Qp - Quasi-Peak detector

## **END OF TEST REPORT**

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