EMC TEST REPORT Project No. LBE20220467 Issue No. Name of organization Samsung Electronics Co., Ltd. (Maetan-dong) 129, Samsung-ro, Yeongtong-gu, **Applicant Address** Suwon-si, Gyeonggi-do, 16677, Korea Date of receipt September 23, 2022 ■ All other receivers subject to Part 15 Class B personal computers and peripherals Type of device ■ Other Class B digital devices and peripherals ☐ FM Broadcast Receiver **Equipment authorization Certification** Supplier's Declaration of Conformity FCC ID A3LSMS911B Kind of product Mobile Phone Model No. SM-S911B/DS **EUT** Variant Model No. Refer to clause 4.6 Samsung Electronics Vietnam Co., Ltd. Yenphong 1 - I.P Yentrung Commune, Yenphong Dist., Bac Ninh Province, Vietnam Samsung Electronics Vietnam THAI NGUYEN Co., Ltd. Manufacturer Yen Binh Industrial Zone Pho Ten Dist., Thai Nguyen Province, Vietnam Samsung Electronics Co., LTD. 302, 3 Gongdan 3-ro, Gumi-si, Gyengsangbuk-do, 39388, Republic of Korea **Applied Standards** 47 CFR Part 15, Subpart B, Class B / ANSI C63.4-2014 **Test Period** September 26, 2022 ~ September 30, 2022 Issue date November 10, 2022 Test result : Complied The equipment under test has found to be compliant with the applied standards. (Refer to the attached test result for more detail.) Tested by : Soo-Joon Kim Reviewed by : Chang-Eun Park 5 J. Kim C-E-Park

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* Not KOLAS report

Samsung Electronics Co., Ltd., Global CS Center (Maetan dong) 129, Samsung-ro, Yeongtong-Gu, Suwon-Si,Gyeonggi-Do 16677, Korea

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1. Report Information

1.1 Revision history

No.	Date of Issue	Revised detailed information		
Issue 0	October 14, 2022	There are no revisions and this version is basic test report.		
Issue 1	November 10, 2022	5G NR bands were added in clause 4.6. (n2/n12/n25/n75).		

X Remark

Only compliance with Part 15B (Section 15.107 Conducted limits) requirements for the receiver part of the licensed transmitter (equipment code CXX) is covered by this report.

2. Summary of test results

2.1 Emission

The EUT has been tested according to the following specifications:

Applied	Test type	Applied standard	Result
-	Conducted Emission (Mains port)	47 CFR Part 15 Subpart B /	Complied
	Radiated Emission	ANSI C63.4-2014 (Class B)	Complied

3. General Information

3.1 Test facility

The Global CS Center is located on Samsung Electronics Co., Ltd. at (Maetan-dong) 129, Samsung-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16677, Korea.

All testing are performed in Semi-anechoic chambers conforming to the site attenuation characteristics defined by ANSI C63.4, CISPR 32, CISPR 16-1-4 and Shielded rooms. And all antennas are properly calibrated using ANSI C63.5:2017.

The Global CS Center is an ISO/IEC 17025 accredited testing laboratory by the National Radio Research Agency with designation No. KR0004. for EMC testing.

Mobile Phone: SM-S911B/DS

4. Test Setup configuration

4.1 Test Peripherals

The cables used for these peripherals are either permanently attached by the peripheral manufacturer or coupled with an assigned cable as defined below.

The following is a listing of the EUT and peripherals utilized during the performance of EMC test:

Description	Model No.	Serial No.	Manufacturer / Trademark	FCC ID
Mobile Phone	SM-S911B/DS	-	SAMSUNG	A3LSMS911B
Battery	EB-BS912ABY	-	ATL	-
Headset	YBD-19HS	-	CRESYN	-
Data Cable	EP-DN980	-	RF TECH	-
Laptop Computer	Latitude5580	1CHRYM2	Dell	DoC
Laptop Computer	Latitude5580	D3HRYM2	Dell	DoC
Laptop AC Adapter	LA65NM130	5D77	Dell	DoC
Laptop AC Adapter	LA65NM130	5B3C	Dell	DoC
Mouse	AA-SM7PCPB	CNBA5903634ADV8 J31O3050	SAMSUNG	DoC
Mouse	SMH-210UB	TAKGA05788Z	SAMSUNG	DoC
Router	DIR-806A	RF0F1D8011501	D-Link	DoC
Router	DIR-806A	RF0F1D8011504	D-Link	DoC
Travel Adapter	EP-TA800	R37T47RCKH9SEB	SoluM	-
DP Monitor	27DU88	711NTQD8H004	LG	DoC
DP Monitor Power Supply	LCAP31	EH8NN62949005506 2	LG	DoC
DP Cable	JCA141	BW2K1709000770	J5CREATE	-

Mobile Phone: SM-S911B/DS

4.2 EUT operating mode

To achieve compliance applied standard specification including CXX, JAB and JBP requirement, the following mode(s) were made during compliance testing:

4.2.1 Conducted Emission

No.	Operating mode
1	Camera (Rear) + Charging (w/TA) + Cellular receiver (LTE FDD26 Center Frequency)
2	Camera (Front) + Charging (w/TA)
3	Video + Audio playback from internal memory + Charging (w/TA)
4	USB data communication with PC (from internal memory)

4.2.2 Radiated Emission

No.	Operating mode
1	Camera (Rear) + Charging (w/TA)
2	Camera (Front) (w/Headset)
3	Video + Audio playback from internal memory (w/Headset)
4	Video + Audio playback from internal memory + Display out (w/ USB to Direct DP cable)
5	USB data communication with PC (from internal memory)

4.3 Details of Sampling

Customer selected, single unit.

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4.4 Used cable description

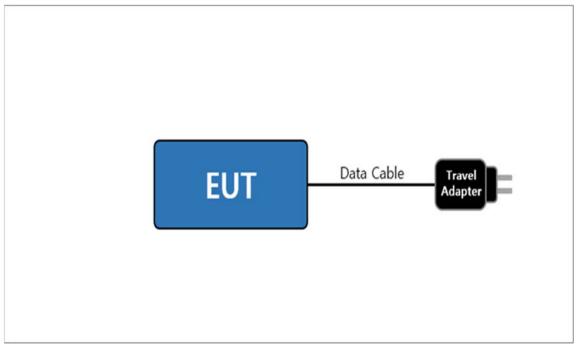
The EUT is configured, installed, arranged and operated in a manner consistent with typical applications. Interface cables/loads/devices are connected to at least one of each type of interface port of the EUT, and where practical, each cable shall be terminated in a device typical of actual usage. The type(s) of interconnecting cables to be used and the interface port (of the EUT) to which these were connected:

Connected cable	Length [m]	Shielded [Y/N]	Note
Data Cable	1.0	Y	From EUT to Laptop Computer or Travel Adapter
Headset	1.2	N	For EUT
Power	1.8	N	From Laptop Computer to AC Adapter
Power	1.5	N	For Laptop AC Adapter
LAN	1.5	N	From Laptop Computer to Router
USB	0.8	Y	From Laptop Computer to Router for DC Power
USB	1.8	Y	From Laptop Computer to Mouse
DP Cable	1.1	Y	From EUT to DP Monitor
Power	1.2	N	From DP Monitor to Power Supply
Power	2.2	N	For DP Monitor Power Supply

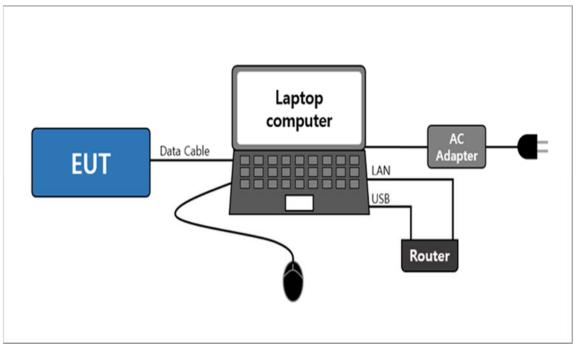
Mobile Phone: SM-S911B/DS

4.5 Test arrangement

4.5.1 Conducted Emission



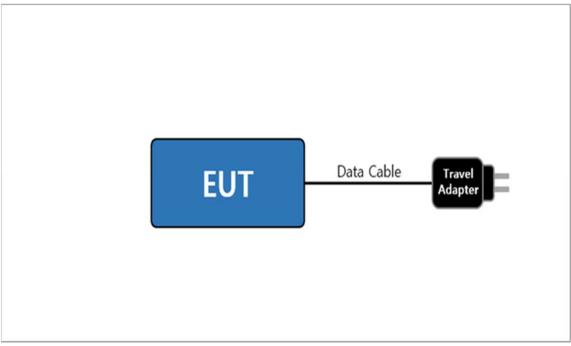
[Mode 1 – 3]



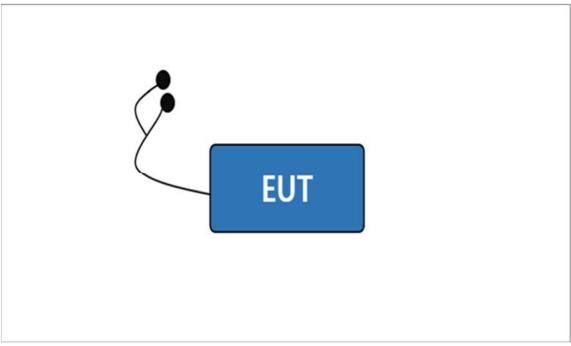
[Mode 4]

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4.5.2 Radiated Emission

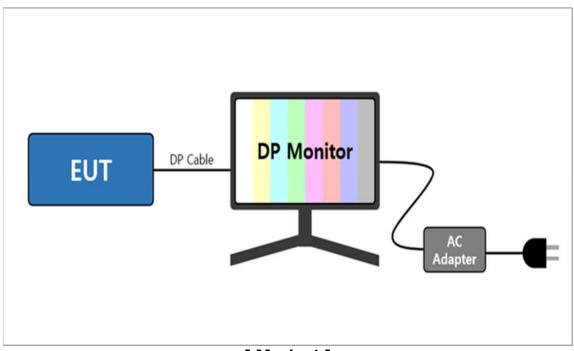


[Mode 1]

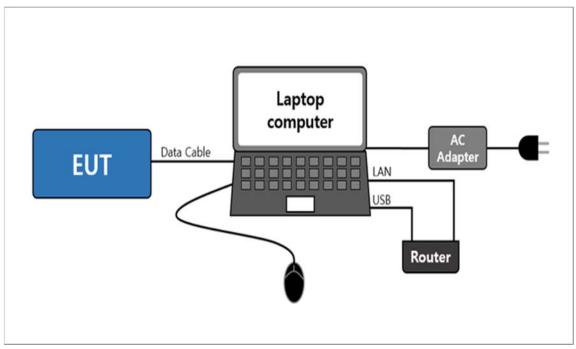


[Mode 2 - 3]

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[Mode 4]



[Mode 5]

Mobile Phone: SM-S911B/DS

4.6 EUT Description

The EUT is a bar type mobile phone which can operate on GSM 850/900/1800/1900, WCDMA FDD 1/2/4/5/8, LTE FDD 1/2/3/4/5/7/8/12/13/17/18/19/20/25/26/28/32/66, LTE TDD 38/39/40/41, 5G NR n1/2/3/5/7/8/12/20/25/28/38/40/41/66/75/77/78 and incorporates a Bluetooth, Wi-Fi (802.11 b/g/n/a/ac/ax), Camera, Audio, Video, GNSS, DP, NFC, Wireless Charging and Wireless power sharing.

4.6.1 The variant models

- SM-S911B

4.7 EUT Frequencies

The highest frequencies (Generated and used)	Frequency [MHz]	
Wi-Fi	7 125	

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4.8 Test configuration and condition

The system was configured for testing in a typical fashion that a customer would normally use. Cables were attached to each of the available I/O Ports. Where applicable, peripherals were attached to the I/O cables.

All the external I/O ports are exercised, as well as internal and the external SD card(if available), by writing and reading arbitrary data or charging with TA.

The EUT was investigated in three orientations and the worst case orientation is reported.

For the AC conducted emissions test, the conducted emissions of receiver modes which operate within the frequency range of 30-960 MHz were compared through preliminary tests. However, no significant differences were found to affect the conducted emission, so the test result for one representative receiver frequency band (LTE FDD26) were reported.

The video and audio(1 kHz sound) were repetitively played with the earphone connected.

The video and audio(1 kHz sound) were played on monitor through display out function using direct DP cable.

The camera of the EUT was operated continuously.

Power source for the EUT operating was supplied by CVCF made by the Pacific Corp.

- Test Voltage : AC 120 V, 60 Hz

4.9 Measurement uncertainty

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus: (According to CISPR 16-4-2 and UKAS M3003)

Test	type	Measurement uncertainty (C.L. approximately 95 %, <i>k</i> = 2)
Conducted Emission	AC Mains	2.83 dB
Radiated Emission	Horizontal	4.31 dB
(Below 1 GHz)	Vertical	4.87 dB
Radiated Emission	Horizontal	5.00 dB
(Above 1 GHz)	Vertical	5.00 dB

^{*} Remark

1) The values for uncertainty of conducted and radiated emissions are less than the Corresponding values of Ucispr given in CISPR 16-4-2. Therefore no adjustment of measurement results is necessary when comparing them with the relevant limits.

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5. Results of individual test

5.1 Conducted Emission

The EUT is connected to a LISN via travel adapter. If the EUT is connected to the Laptop Computer USB port, the Laptop AC adapter is connected to a LISN.

Both conducted lines are measured in Quasi-Peak and CISPR-Average mode, including the worst-case data points for each tested configuration. The EUT measured in accordance with the methods described in standards.

Limits for Conducted emission at the mains ports of Class B

Frequency range Limits Reso	Resolution Bandwidth	Limits [dB(μV)]		
	[kHz]	Quasi-peak	Average	
0.15 to 0.50	9	66 to 56	56 to 46	
0.50 to 5	9	56	46	
5 to 30	9	60	50	

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

NOTE 2 The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz.

5.1.1 Test instrumentation

EMC	MC Model		Next Calibration			
No.	Test Instrument	name	Manufacturer	Serial No.	Date	Interval (Month)
E5I-006	LTE Communicator	CMW500	R&S	132728	2023-04-12	12
E5I-127	Two-Line V-Network	ENV216	R&S	102061	2023-01-17	12
E5I-247	EMI Test Receiver	ESW8	R&S	103124	2023-07-20	12
-	Test software	EMC32	R&S	Ver 10.60.20	-	-

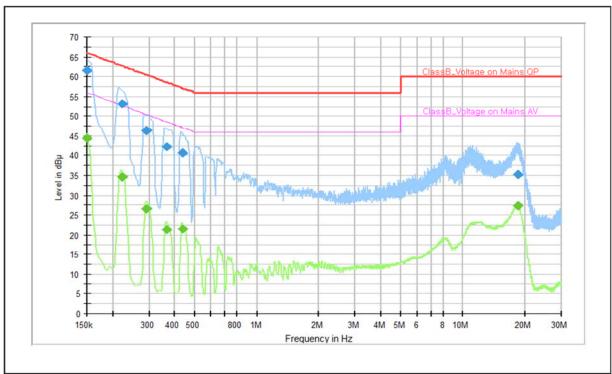
5.1.2 Temperature and humidity condition

Test date	2022-09-30	Test engineer	Soo-Joon Kim	
	Ambient temperature	(25.2 ± 0.5) °C	Limit (15.0 to 35.0) °C	
Climate condition	Humidity	(38.3 ± 0.5) % R.H.	Limit (25.0 to 75.0) % R.H.	
	Atmospheric pressure	(101.6 ± 0.5) kPa	Limit (86.0 to 106.0) kPa	
Test place	Shield Room (SR8)			

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5.1.3 Test Results

□ Operating Mode 1: AC Mains



Note 1) Two graphs measured for both Live(L1) and Neutral(N) of the LISN are combined into one graph.

QP / CAV final measurement results table:

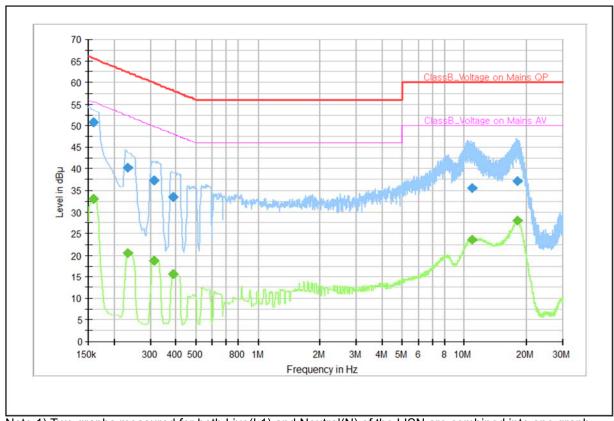
Frequency (MHz)	QP (dBµV)	CAV (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)
0.150		44.4	56.0	11.6	L1	9.8
0.150	61.5		66.0	4.5	L1	9.8
0.222		34.7	52.7	18.1	L1	9.8
0.222	53.1		62.7	9.6	L1	9.8
0.292		26.5	50.5	24.0	L1	9.8
0.292	46.4		60.5	14.1	L1	9.8
0.364		21.4	48.6	27.3	L1	9.9
0.364	42.2		58.6	16.5	L1	9.9
0.436		21.5	47.1	25.7	L1	10.0
0.436	40.6		57.1	16.5	L1	10.0
18.575		27.4	50.0	22.6	N	10.0
18.575	35.3		60.0	24.7	N	10.0

Note 2) Level (QP and/or CAV) = Meter Reading (QP and/or CAV) + Corr. (LISN Insertion Loss + Cable Loss)

Margin (QP and/or CAV) = Limit – Level (QP and/or CAV)

QP = Quasi-Peak, CAV = CISPR-Average, Corr. = Correction Factor

□ Operating Mode 2: AC Mains



Note 1) Two graphs measured for both Live(L1) and Neutral(N) of the LISN are combined into one graph.

QP / CAV final measurement results table:

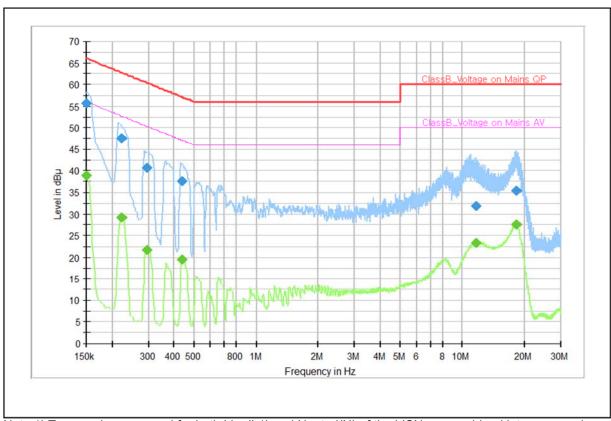
Frequency (MHz)	QP (dBµV)	CAV (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)
0.159		33.1	55.5	22.4	L1	10.0
0.159	50.8		65.5	14.7	L1	10.0
0.233		20.6	52.3	31.7	L1	9.8
0.233	40.2		62.3	22.1	L1	9.8
0.312		18.9	49.9	31.1	L1	9.8
0.312	37.3		59.9	22.6	L1	9.8
0.386		15.7	48.1	32.5	L1	10.0
0.386	33.4		58.1	24.7	L1	10.0
10.889		23.7	50.0	26.3	N	9.9
10.889	35.7		60.0	24.3	N	9.9
18.119		27.9	50.0	22.1	N	10.0
18.119	37.2		60.0	22.8	N	10.0

Note 2) Level (QP and/or CAV) = Meter Reading (QP and/or CAV) + Corr. (LISN Insertion Loss + Cable Loss)

Margin (QP and/or CAV) = Limit – Level (QP and/or CAV)

QP = Quasi-Peak, CAV = CISPR-Average, Corr. = Correction Factor

□ Operating Mode 3: AC Mains



Note 1) Two graphs measured for both Live(L1) and Neutral(N) of the LISN are combined into one graph.

QP / CAV final measurement results table:

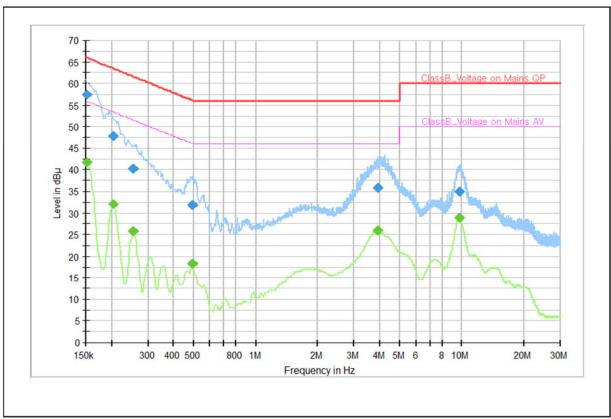
Frequency (MHz)	QP (dBµV)	CAV (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)
0.150		39.0	56.0	17.0	L1	9.8
0.150	55.7		66.0	10.3	L1	9.8
0.222		29.1	52.7	23.7	L1	9.8
0.222	47.5		62.7	15.3	L1	9.8
0.296		21.7	50.3	28.6	L1	9.8
0.296	40.7		60.3	19.6	L1	9.8
0.438		19.5	47.1	27.6	L1	10.0
0.438	37.5		57.1	19.6	L1	10.0
11.724		23.3	50.0	26.7	N	9.9
11.724	32.0		60.0	28.0	N	9.9
18.328		27.6	50.0	22.4	N	10.0
18.328	35.5		60.0	24.5	N	10.0

Note 2) Level (QP and/or CAV) = Meter Reading (QP and/or CAV) + Corr. (LISN Insertion Loss + Cable Loss)

Margin (QP and/or CAV) = Limit – Level (QP and/or CAV)

QP = Quasi-Peak, CAV = CISPR-Average, Corr. = Correction Factor

□ Operating Mode 4: AC Mains



Note 1) Two graphs measured for both Live(L1) and Neutral(N) of the LISN are combined into one graph.

QP / CAV final measurement results table:

Frequency (MHz)	QP (dBµV)	CAV (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)
0.152	57.5		65.9	8.4	N	10.0
0.152		41.7	55.9	14.2	N	10.0
0.204	48.0		63.4	15.5	L1	10.0
0.204		32.1	53.4	21.4	L1	10.0
0.256	40.3		61.6	21.2	L1	9.8
0.256		25.7	51.6	25.8	L1	9.8
0.492		18.3	46.1	27.8	L1	10.2
0.492	31.9		56.1	24.2	L1	10.2
3.908	35.7		56.0	20.3	N	10.0
3.908		26.1	46.0	19.9	N	10.0
9.794		28.9	50.0	21.1	L1	10.2
9.794	34.9		60.0	25.1	L1	10.2

Note 2) Level (QP and/or CAV) = Meter Reading (QP and/or CAV) + Corr. (LISN Insertion Loss + Cable Loss)

Margin (QP and/or CAV) = Limit – Level (QP and/or CAV)

QP = Quasi-Peak, CAV = CISPR-Average, Corr. = Correction Factor

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5.2 Radiated Emission

The following data lists the significant emission frequencies, measured levels, correction factors (for antenna and cables), orientation of table, polarization and height of antenna, the corrected reading, the limit, and the amount of margin.

Peak measurements were made over the changeable frequency range 30 MHz to 1 GHz at a measurement distance of 10 m for the following antenna and turntable arrangements:

Antenna Height [cm]	Antenna Polarization	Resolution Bandwidth [kHz]	Video Bandwidth [kHz]	Turntable position [degrees]
100 ~ 400	Horizontal, Vertical	120	300	Continuous

Measurements within 6 dB of the limit were then maximized by adjusting turntable position.

Final measurements were made using quasi-peak detector.

Peak/CISPR-Average measurements were made over the changeable frequency range 1 GHz to 40 GHz or 5th harmonics of the highest frequency generated or used in the device or on which the device operates or tunes at a measurement distance of 3 m for the following antenna and turntable arrangements. The measurements above 1 GHz were performed with the bore-sighting antenna aimed at the EUT.

Antenna Height [cm]	Antenna Polarization	Resolution Bandwidth [MHz]	Video Bandwidth [MHz]	Turntable position [degrees]
100 ~ 400	Horizontal, Vertical	1	3	Continuous

Measurements within 6 dB of the limit were then maximized by adjusting turntable position.

Final measurements were made using peak and CISPR-average detectors.

Limits for Radiated emission of Class B at a measuring distance of 3 m and 10 m

Frequency range Limits	Field Strength						
[MHz]	3 m [μV/m]	3 m [dB(μV/m)]	10 m [dB(μV/m)]				
30 to 88	100	40.0	29.5				
88 to 216	150	43.5	33.0				
216 to 960	200	46.0	35.5				
Above 960	500	54.0	43.5				

Note) Distance correction fomula from D1(3m) to D2(10m)

: Limit at D2 = Limit at D1 + 20Log(D1/D2)

Results checked manually; and points close to the limit line were re-measured.

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Mobile Phone: SM-S911B/DS

5.2.1 Test instrumentation

EMC		Model			Next Calil	oration
No.	Test Instrument	name	Manufacturer	Serial No.	Date	Interval (Month)
E5I-015	EMI Test Receiver	ESU8	R&S	100481	2023-06-29	12
E5I-017	EMI Test Receiver	ESU8	R&S	100483	2023-01-26	12
E5I-248	EMI Test Receiver	ESW44	R&S	103129	2023-07-20	12
E5I-121	BiLog Antenna	CBL6112D	TESEQ	36999	2023-07-12	24
E5I-137	6 dB Fixed Attenuator	8491A	Keysight	MY52462298	2023-07-12	24
E5I-070	BiLog Antenna	CBL6112D	TESEQ	35383	2023-07-12	24
E5I-228	6 dB Fixed Attenuator	8491B-006	Agilent	58358	2023-07-12	24
E5I-093	Preamplifier	310N	SONOMA	273122	2023-01-18	12
E5I-094	Preamplifier	310N	SONOMA	282363	2023-01-18	12
E5I-036	Horn Antenna	HF907	R&S	100507	2023-04-04	12
E5I-040	Signal Conditioning Unit	SCU-18	R&S	10210	2023-04-01	12
E5I-243	WideBand Horn Antenna	QMS-00880	STEATITE	25187	2022-11-17	12
E5I-042	Signal Conditioning Unit	SCU-40A	R&S	10004	2023-09-21	12
-	Test software	EP7RE	TOYO	Ver 8.0.20	-	-
-	Test software	EMC32	R&S	Ver 10.60.20	-	-

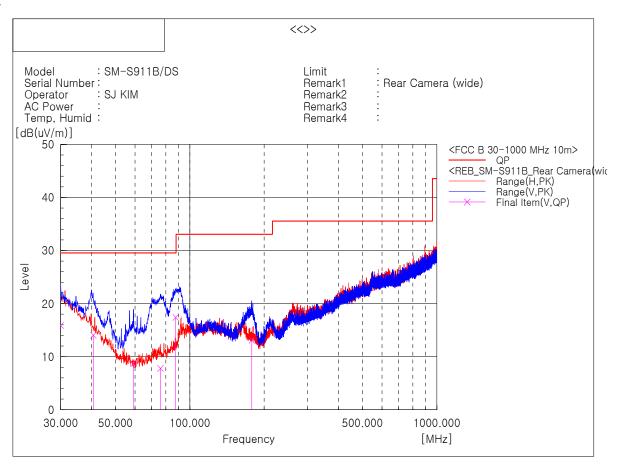
5.2.1 Temperature and humidity condition

Test date	2022-09-26 ~ 2022-09-28	Test engineer	Soo-Joon Kim				
Climate condition	Ambient temperature	(22.4 ± 0.5) °C	Limit (15.0 to 35.0) °C				
	Humidity	(54.1 ± 0.5) % R.H.	Limit (25.0 to 75.0) % R.H.				
	Atmospheric pressure	Limit (86.0 to 106.0) kPa					
Test place	S	Semi-Anechoic Chamber (SAC4)					

5.2.3 Test Results

□ Operating Mode 1

- Frequencies below 1 GHz



Final Result

No.	Frequency	(P)	Reading QP	c.f	Result QP	Limit QP	Margin QP	Height	Angle	System
	[MHz]		[dB(uV)]	[dB(1/m)]	[dB(uV/m)]	[dB(uV/m)]	[dB]	[cm]	[deg]	
1	30.000	V	22.1	-6.2	15.9	29.5	13.6	291	39	2
2	40.670	V	25.8	-11.7	14.1	29.5	15.4	100	42	2
3	59.100	V	27.0	-18.3	8.7	29.5	20.8	184	279	2
4	76.075	V	25.2	-17.4	7.8	29.5	21.7	231	160	2
5	87.594	V	32.9	-15.5	17.4	29.5	12.1	156	287	2
6	178.168	V	27.0	-13.9	13.1	33.0	19.9	197	350	2

Note1) Receiving antenna polarization: Horizontal, Vertical

Test Distance : 10 m, Antenna Height : 1 to 4 meters

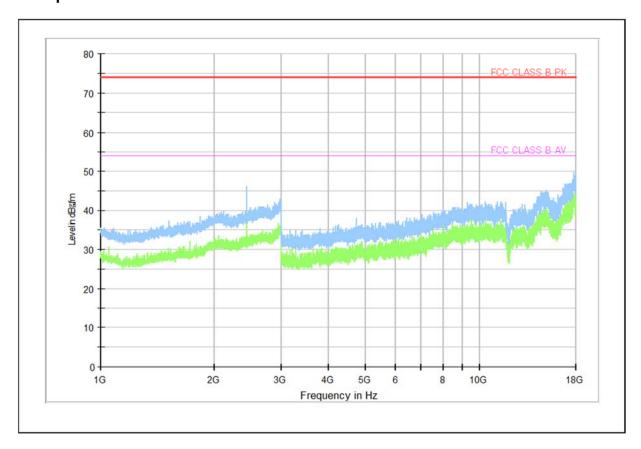
Result (QP) = Reading (QP) + c.f (Antenna Factor + Cable Loss - Amp. Gain)

Margin (QP) = Limit - Level (QP)

QP = Quasi-Peak, c.f = Correction Factor

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- Frequencies above 1 GHz



Note 1) We have also tested from 18 GHz to 40 GHz and found no emissions.

Note 2) Receiving antenna polarization: Horizontal, Vertical

Test Distance: 3 m, Antenna Height: 1 to 4 meters

Level (PK and/or CAV) = Reading (PK and/or CAV) + Corr. (Antenna Factor + Cable Loss - Amp. Gain)

Margin (PK and/or CAV) = Limit – Level (PK and/or CAV)

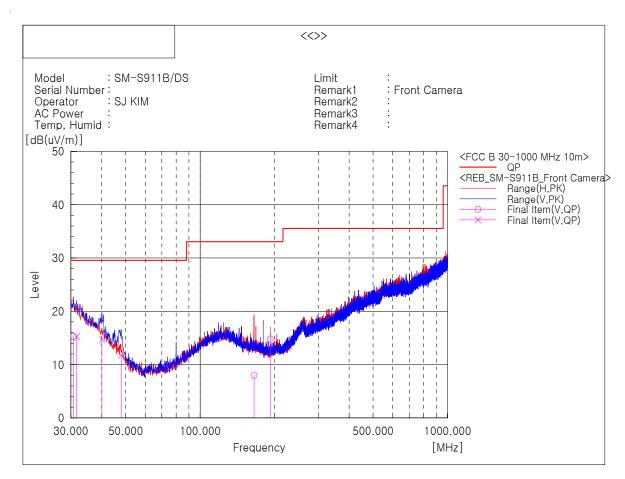
PK = Peak, CAV = CISPR-Average, Corr. = Correction Factor

Note 3) Radiated emissions (Tx / Rx frequency) from the transceiver shall be ignored.

- Data transmission in the 2.4 GHz ISM band (Bluetooth/Wi-Fi)
- : Operating frequencies (2 400 ~ 2 483.5) MHz

□ Operating Mode 2

- Frequencies below 1 GHz



Final Result

No.	Frequency	(P)	Reading QP	c.f	Result QP	Limit QP	Margin QP	Height	Angle	System
	[MHz]		[dB(uV)]	[dB(1/m)]	[dB(uV/m)]	[dB(uV/m)]	[dB]	[cm]	[deg]	
1	30.728	Н	22.8	-7.5	15.3	29.5	14.2	198	351	1
2	31.698	V	22.3	-7.0	15.3	29.5	14.2	100	45	2
3	40.064	V	26.1	-11.3	14.8	29.5	14.7	400	9	2
4	47.945	V	27.4	-15.6	11.8	29.5	17.7	263	169	2
5	165.073	Н	22.5	-14.5	8.0	33.0	25.0	377	5	1
6	191.990	Н	30.3	-15.5	14.8	33.0	18.2	305	100	1

Note1) Receiving antenna polarization : Horizontal, Vertical

Test Distance: 10 m, Antenna Height: 1 to 4 meters

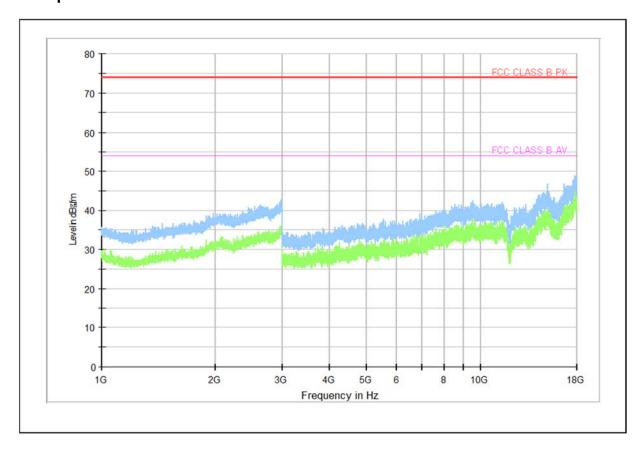
Result (QP) = Reading (QP) + c.f (Antenna Factor + Cable Loss - Amp. Gain)

Margin (QP) = Limit – Level (QP)

QP = Quasi-Peak, c.f = Correction Factor

Mobile Phone: SM-S911B/DS

- Frequencies above 1 GHz



Note 1) We have also tested from 18 GHz to 40 GHz and found no emissions.

Note 2) Receiving antenna polarization : Horizontal, Vertical

Test Distance: 3 m, Antenna Height: 1 to 4 meters

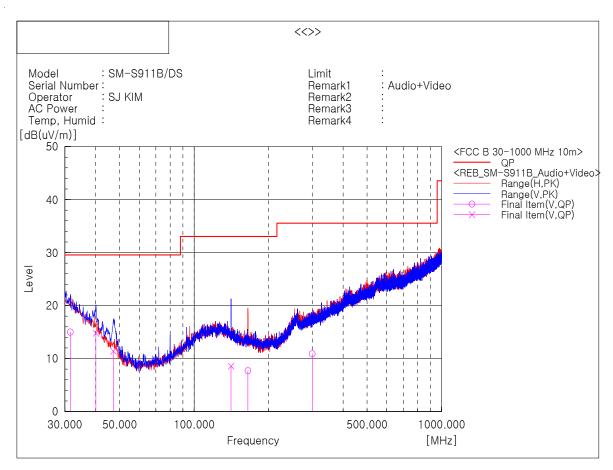
Level (PK and/or CAV) = Reading (PK and/or CAV) + Corr. (Antenna Factor + Cable Loss - Amp. Gain)

Margin (PK and/or CAV) = Limit – Level (PK and/or CAV)

PK = Peak, CAV = CISPR-Average, Corr. = Correction Factor

□ Operating Mode 3

- Frequencies below 1 GHz



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No.	Frequency	(P)	Reading QP	c.f	Result QP	Limit QP	Margin QP	Height	Angle	System
	[MHz]		[dB(uV)]	[dB(1/m)]	[dB(uV/m)]	[dB(uV/m)]	[dB]	[cm]	[deg]	
1	31.576	Н	22.8	-7.8	15.0	29.5	14.5	169	118	1
2	40.064	V	26.1	-11.3	14.8	29.5	14.7	400	250	2
3	47.096	V	26.6	-15.2	11.4	29.5	18.1	382	121	2
4	140.944	V	21.0	-12.4	8.6	33.0	24.4	100	67	2
5	164.951	Н	22.2	-14.5	7.7	33.0	25.3	254	0	1
6	300.145	Н	21.5	-10.6	10.9	35.5	24.6	102	173	1

Note1) Receiving antenna polarization: Horizontal, Vertical

Test Distance: 10 m, Antenna Height: 1 to 4 meters

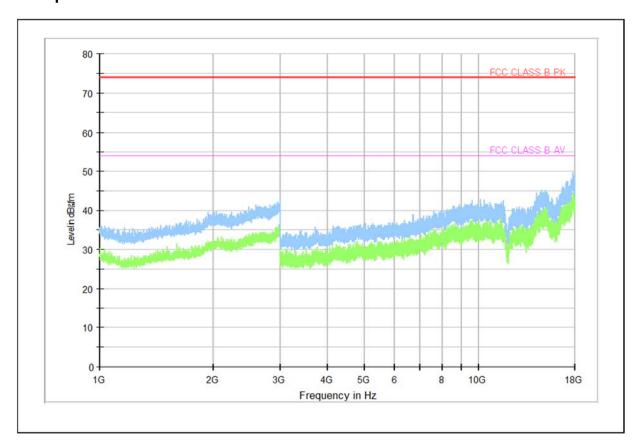
Result (QP) = Reading (QP) + c.f (Antenna Factor + Cable Loss - Amp. Gain)

Margin (QP) = Limit – Level (QP)

QP = Quasi-Peak, c.f = Correction Factor

Mobile Phone: SM-S911B/DS

- Frequencies above 1 GHz



Note 1) We have also tested from 18 GHz to 40 GHz and found no emissions.

Note 2) Receiving antenna polarization : Horizontal, Vertical

Test Distance: 3 m, Antenna Height: 1 to 4 meters

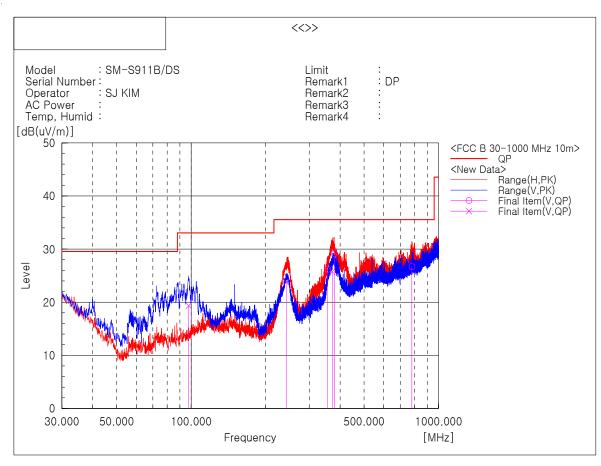
Level (PK and/or CAV) = Reading (PK and/or CAV) + Corr. (Antenna Factor + Cable Loss - Amp. Gain)

Margin (PK and/or CAV) = Limit – Level (PK and/or CAV)

PK = Peak, CAV = CISPR-Average, Corr. = Correction Factor

□ Operating Mode 4

- Frequencies below 1 GHz



Fi	nal	Resul	Ιt

No.	Frequency	(P)	Reading QP	c.f	Result QP	Limit QP	Margin QP	Height	Angle	System
	[MHz]		[dB(uV)]	[dB(1/m)]	[dB(uV/m)]	[dB(uV/m)]	[dB]	[cm]	[deg]	
1	97.779	V	33.1	-13.8	19.3	33.0	13.7	129	90	2
2	242.066	V	35.5	-11.7	23.8	35.5	11.7	100	0	2
3	356.769	Н	34.9	-8.7	26.2	35.5	9.3	246	235	1
4	371.561	V	33.1	-7.4	25.7	35.5	9.8	100	196	2
5	378.715	Н	37.6	-8.4	29.2	35.5	6.3	230	171	1
6	779.931	Н	28.7	-2.0	26.7	35.5	8.8	118	174	1

Note1) Receiving antenna polarization: Horizontal, Vertical

Test Distance: 10 m, Antenna Height: 1 to 4 meters

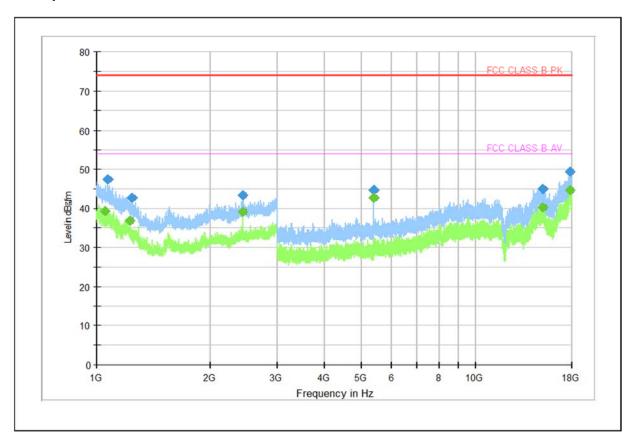
Result (QP) = Reading (QP) + c.f (Antenna Factor + Cable Loss - Amp. Gain)

Margin (QP) = Limit – Level (QP)

QP = Quasi-Peak, c.f = Correction Factor

Mobile Phone: SM-S911B/DS

- Frequencies above 1 GHz



Frequency (MHz)	PK (dBµV/m)	CAV (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1 052.800		39.42	54.00	14.58	102.00	V	225.00	7.20
1 068.400	47.31		74.00	26.69	113.60	Н	237.00	7.20
1 222.800		36.96	54.00	17.04	105.10	Н	281.00	7.20
1 242.800	42.78		74.00	31.22	111.00	Н	240.00	7.30
2 429.200		39.05	54.00	14.95	103.20	V	215.00	13.80
2 429.200	43.30		74.00	30.70	100.00	V	215.00	13.80
5 400.000	44.68		74.00	29.32	120.70	Н	128.00	7.40
5 400.000		42.66	54.00	11.34	109.30	Н	128.00	7.40
15 027.000	44.95		74.00	29.05	101.20	Н	37.00	29.40
15 028.000		40.27	54.00	13.73	100.00	Н	79.00	29.40
17 769.000		44.69	54.00	9.31	115.90	V	114.00	35.50
17 800.500	49.37		74.00	24.63	112.80	V	3.00	36.20

Note 1) We have also tested from 18 GHz to 40 GHz and found no emissions.

Note 2) Receiving antenna polarization: Horizontal, Vertical

Test Distance: 3 m, Antenna Height: 1 to 4 meters

Level (PK and/or CAV) = Reading (PK and/or CAV) + Corr. (Antenna Factor + Cable Loss - Amp. Gain)

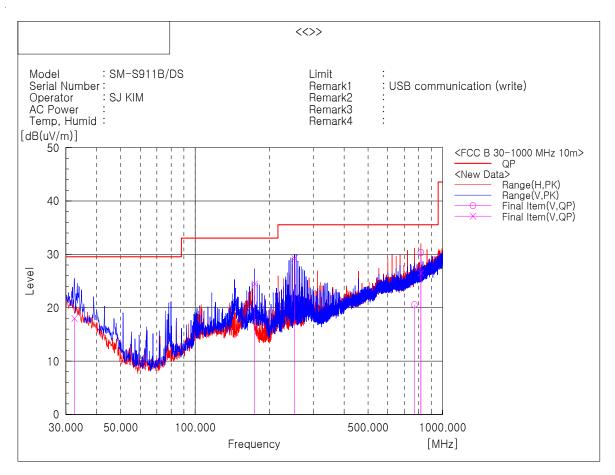
Margin (PK and/or CAV) = Limit – Level (PK and/or CAV)

PK = Peak, CAV = CISPR-Average, Corr. = Correction Factor

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□ Operating Mode 5

- Frequencies below 1 GHz



Final Result

No.	Frequency	(P)	Reading	c.f	Result	Limit	Margin	Height	Angle	System
	[MHz]		QP [dB(uV)]	[dB(1/m)]	QP [dB(uV/m)]	QP [dB(uV/m)]	QP [dB]	[cm]	[deg]	
1	32.546	V	25.4	-7.4	18.0	29.5	11.5	171	301	2
2	174.045	V	38.2	-13.7	24.5	33.0	8.5	110	263	2
3	251.888	V	39.8	-10.5	29.3	35.5	6.2	100	176	2
4	769.504	Н	22.9	-2.3	20.6	35.5	14.9	124	136	1
5	817.519	Н	32.2	-1.9	30.3	35.5	5.2	130	112	1
6	817.519	V	27.6	-1.0	26.6	35.5	8.9	291	231	2

Note1) Receiving antenna polarization: Horizontal, Vertical

Test Distance: 10 m, Antenna Height: 1 to 4 meters

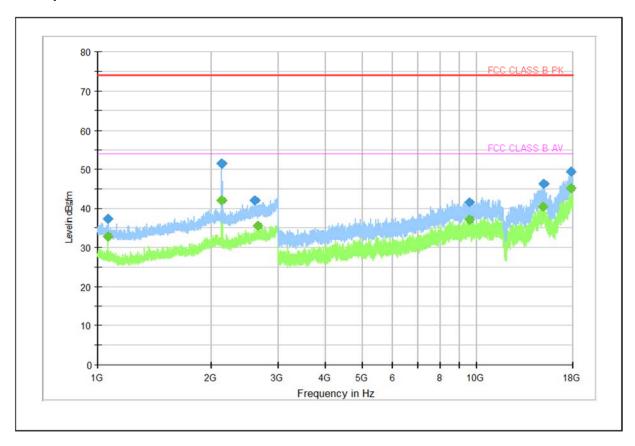
Result (QP) = Reading (QP) + c.f (Antenna Factor + Cable Loss - Amp. Gain)

Margin (QP) = Limit – Level (QP)

QP = Quasi-Peak, c.f = Correction Factor

Mobile Phone: SM-S911B/DS

- Frequencies above 1 GHz



Frequency (MHz)	PK (dBµV/m)	CAV (dBμV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1 066.000		32.86	54.00	21.14	106.80	Н	27.00	7.20
1 066.000	37.29		74.00	36.71	111.00	Н	27.00	7.20
2 126.800		42.07	54.00	11.93	105.00	V	247.00	13.10
2 126.800	51.50		74.00	22.50	106.30	V	247.00	13.10
2 606.000	41.97		74.00	32.03	102.10	V	329.00	14.90
2 647.200		35.46	54.00	18.54	100.00	Н	5.00	15.20
9 572.000	41.64		74.00	32.36	101.70	V	136.00	19.30
9 603.500		37.11	54.00	16.89	118.50	Н	130.00	19.40
15 013.500		40.38	54.00	13.62	115.20	V	350.00	29.40
15 039.000	46.20		74.00	27.80	104.00	Н	165.00	29.40
17 787.500	49.42		74.00	24.58	120.30	V	122.00	35.90
17 807.500		45.16	54.00	8.84	107.50	Н	269.00	36.10

Note 1) We have also tested from 18 GHz to 40 GHz and found no emissions.

Note 2) Receiving antenna polarization: Horizontal, Vertical

Test Distance: 3 m, Antenna Height: 1 to 4 meters

Level (PK and/or CAV) = Reading (PK and/or CAV) + Corr. (Antenna Factor + Cable Loss - Amp. Gain)

Margin (PK and/or CAV) = Limit – Level (PK and/or CAV)

PK = Peak, CAV = CISPR-Average, Corr. = Correction Factor

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