# **EMC TEST REPORT**

Project No.	LBE20201131	Issue No.	0			
	Name of organization	Samsung Ele	ectronics Co., Ltd.			
Applicant	Address		) 129, Samsung-ro, Yeongtong-gu, eonggi-do, 16677, Republic of Korea			
	Date of receipt	December 16,	2020			
	Type of device	⊠ Class B Pers	eceivers subject to part15 sonal Computers and peripherals B digital devices and peripherals ast Receiver			
	Equipment authorization	□ Certification	☐ Supplier's Declaration of Conformity			
	FCC ID	A3LSMA525F				
EUT	Kind of product	Mobile Phone				
	Model No.	SM-A525F/DS				
	Variant Model No.	Refer to clause 4.6				
	Manufacturer	Samsung Electronics Vietnam Thai Nguyen Co., Ltd. Yen Binh Industrial Zone Pho Ten Dist., Thai Nguyen Province, Vietnam				
Applied Sta	andards	47 CFR Part 15, Subpart B, Class B / ANSI C63.4-2014				
Test Period		December 21, 2020 ~ December 23, 2020				
Issue date		December 24, 2020				
Test result : Complied						
	oment under test has found the attached test result for		t with the applied standards.			
Total har a Familian Oh						

Tested by : Eun-Kyung Oh

Reviewed by : Sun-Ho Kim

The test results in this report only apply to the tested sample. This report must not be reproduced, except in full, without written permission from Global CS center.

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

## **Table of contents**

1.	Report Information	
	1.1 Revision history	3
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2.	Summary of test results	
	2.1 Emission	3
3.	General Information	
	3.1 Test facility	3
4.	Test Configuration	
	4.1 Test Peripherals	4
	4.2 EUT operating mode	5
	4.3 Details of Sampling	5
	4.4 Used cable description	6
	4.5 Test arrangement	7
	4.6 EUT Description	9
	4.7 EUT Frequencies	9
	4.8 Test configuration and condition	10
	4.9 Measurement uncertainty	10
5.	Result of individual tests	
	5.1 Conducted disturbance	11
	5.2 Radiated disturbance	17

Mobile Phone: SM-A525F/DS

## 1. Report Information

#### 1.1 Revision history

No.	Date of Issue	Revised detailed information
Issue 0	December 24, 2020	There are no revisions and this version is basic test report.

#### \* Remark

Compliance with Part 15B requirements for the receiver part of the licensed transmitter (equipment code CXX) is covered by other test 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 Disturbance (Mains port)	47 CFR Part 15 Subpart B / ANSI C63.4-2014	Complied
	Radiated Disturbance	(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, Republic of 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-A525F/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:

Mark	Description	Model No.	Serial No.	Manufacturer / Trademark	FCC ID	
Α	Mobile Phone	SM-A525F/DS	-	SAMSUNG	A3LSMA525F	
В	Battery	EB-BG781ABY	-	SDI	-	
С	Headset	EHS64AVFWE	-	ALMUS	-	
D	Data Cable	EP-DR140	-	RFTECH	-	
Е	Micro SD Card	64GB	-	SAMSUNG	DoC	
F	Laptop	L atituda EE 0.0	1CHRYM2 Dell	DoC		
F	Computer		D3HRYM2	Dell	DoC	
G	Laptop	Laptop	LA65NM130	5D77	Dell	DoC
	AC Adapter	LAOSINIVITSO	5B3C	Dell	DoC	
Н	Mouse	AA-SM7PCPB	CNBA5903634ADV8J 31O3050	SAMSUNG	DoC	
		SNJ-B138	Z5F8353	SAMSUNG	DoC	
	Douter	Router DIR-806A	RF0F1D8011501	D-Link	DoC	
'	Kouter		RF0F1D8011504	D-Link	DoC	
J	Travel Adapter	EP-TA200	R37N9G6BH13RT3	RFTECH	-	

Mobile Phone: SM-A525F/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) + FM (Low ch.)
2	Camera (front) + Charging (w/ TA) + FM (Mid ch.)
3	Charging (w/ TA) + FM (High ch.)
4	Video + Audio playback from internal memory data + Charging (w/ TA)
5	USB Data Communication with PC (from External memory data)

#### 4.2.2 Radiated Emission

No.	Operating mode
1	Camera (rear) + Charging (w/ TA) + FM (Low ch.)
2	Camera (front) + FM (Mid ch.)
3	FM (High ch.)
4	Video + Audio playback from internal memory data(w/ Headset)
5	USB Data Communication with PC (from External memory data)

## 4.3 Details of Sampling

Customer selected, single unit.

Mobile Phone: SM-A525F/DS

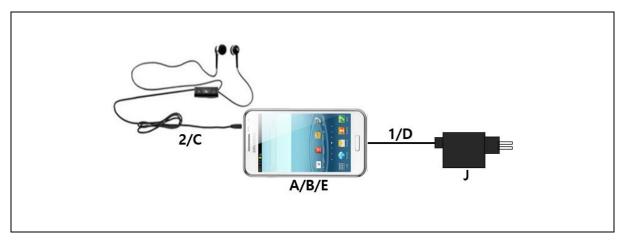
### 4.4 Used cable description

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:

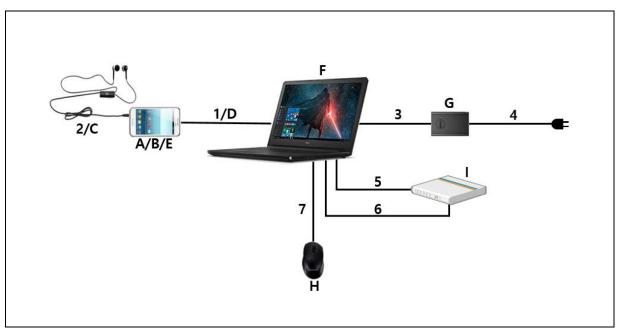
No.	Connected cable	Length [m]	Shielded [Y/N]	Note	
1	Data Cable	0.8	Y	From EUT to Laptop Computer or TA	
2	Headset	1.2	N	For EUT	
3	Power	1.8	N	From Laptop Computer to AC Adapter	
4	Power	1.5	N	For Laptop AC Adapter	
5	LAN	1.5	N	From Laptop Computer to Router	
6	USB	0.8	Y	From Laptop Computer to Router for DC Power	
7	USB	1.8	Y	From Laptop Computer to Mouse	

## 4.5 Test arrangement

### 4.5.1 Conducted Emission

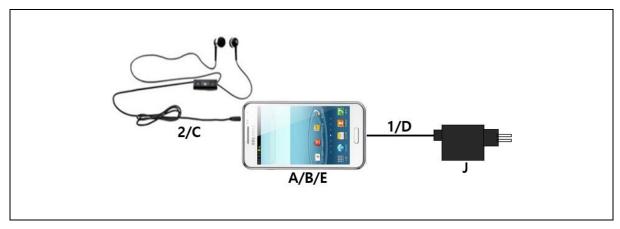


[ Mode 1 - 4 ]

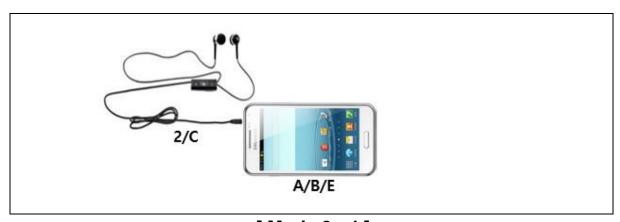


[ Mode 5 ]

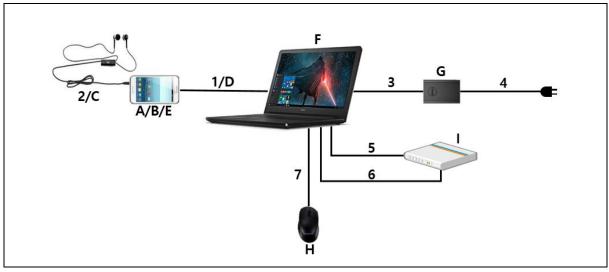
### 4.5.2 Radiated Emission



[ Mode 1 ]



[ Mode 2 - 4 ]



[ Mode 5 ]

Mobile Phone: SM-A525F/DS

### 4.6 EUT Description

The EUT is a bar type Mobile Phone which can operate on GSM850/900/1800/1900, WCDMA FDD1/2/4/5/8, LTE FDD 1/2/3/4/5/7/8/12/17/20/26/28/32/66, LTE TDD 38/40/41 and incorporates a Bluetooth, Wi-Fi, Camera, Audio, Video, FM Radio, GNSS and NFC.

4.6.1 The variant models

- SM-A525F

## 4.7 EUT Frequencies

The highest frequencies (Generated and used)	Frequency [ MHz ]	
Wi-Fi	5 825	

Mobile Phone: SM-A525F/DS

#### 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, by writing and reading arbitrary data or charging with TA.

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

RX mode(850MHz) testing was performed with the LTE B26 RX Test mode at center frequency. All licensed communication (850MHz) RX mode, GSM/WCDMA/LTE, test results are not significantly different.

The FM radio mode radiated testing was performed with the Low/Mid/High channel.

The video and audio were repetitively played with the earphone connected.

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)

#### 4.9.1 Emission

Test type	Measurement uncertainty (C.L. 95 %, k = 2)	
Conducted disturbance	AC Mains	2.83 dB
Radiated Disturbance	Horizontal	4.08 dB
(Below 1 GHz)	Vertical	4.58 dB
Radiated Disturbance	Horizontal	5.21 dB
(Above 1 GHz)	Vertical	5.22 dB

<sup>\*</sup> 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.

Mobile Phone: SM-A525F/DS

## 5. Results of individual test

#### 5.1 Conducted disturbance

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 disturbance at the mains ports of Class B ITE

Frequency range Limits	Resolution Bandwidth	Limits [ dB(μV) ]		
[MHz]	[ 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 No.	Test Instrument	Model name	Manufacturer	Serial No.	Next Calibration	
					Date	Interval (Month)
E5I-006	LTE Communicator	CMW500	R&S	132728	2021-04-06	12
E5I-023	Signal Generator	SMB100A	R&S	175857	2021-01-29	12
E5I-017	EMI Test Receiver	ESU8	R&S	100483	2021-01-20	12
E5I-127	LISN	ENV216	R&S	102061	2021-07-29	12
-	Test software	EMC32	R&S	Ver 9.26.01	-	-

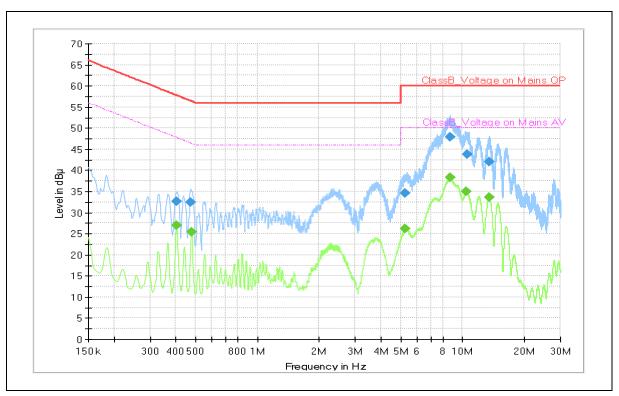
## **5.1.2 Temperature and humidity condition**

Test date	2020-12-23	Test engineer	Eun-Kyung Oh			
	Ambient temperature	(24.0 ± 0.5) ℃	Limit (15.0 to 35.0) ℃			
Climate condition	Relative humidity	(40.1 ± 0.5) % R.H.	Limit (25.0 to 75.0) % R.H.			
	Atmospheric pressure	Limit (86.0 to 106.0) kPa				
Test place	Shield Room (SR8)					

Mobile Phone: SM-A525F/DS

#### 5.1.3 Test results

#### ☐ Operating Mode 1: AC Mains

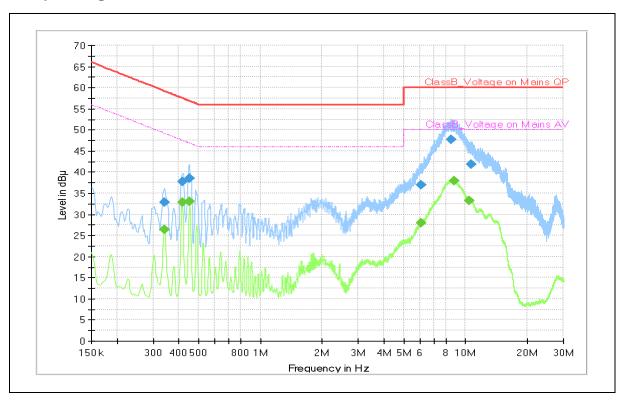


Note 1) Two graphs measured for both Live(L1) and Neutral(N) of the LISN are combined into one graph.

QP / CAV final measurement results table:

Frequency (MHz)	QP (dBµV)	CAV (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)
0.404	32.61		57.77	25.16	N	10.2
0.404		27.04	47.77	20.72	N	10.2
0.474	32.43		56.44	24.01	L1	10.2
0.479		25.52	46.37	20.85	N	10.2
5.235		26.29	50.00	23.71	N	10.0
5.262	34.53		60.00	25.47	N	10.0
8.671	47.88		60.00	12.12	N	10.1
8.711		38.30	50.00	11.70	N	10.2
10.462		35.04	50.00	14.96	N	10.3
10.572	43.89		60.00	16.11	L1	10.2
13.461		33.67	50.00	16.33	N	10.4
13.499	42.10		60.00	17.90	N	10.4

#### ☐ Operating Mode 2: AC Mains

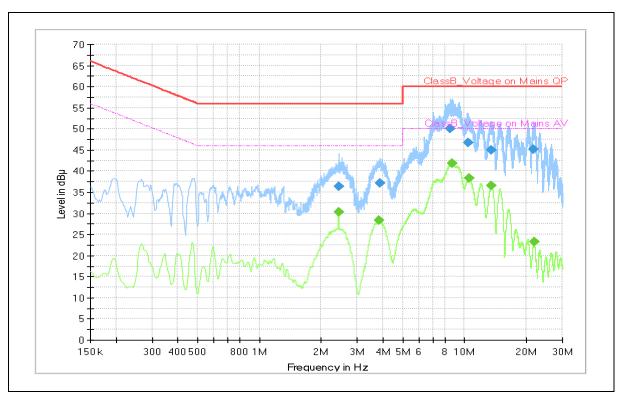


Note 1) Two graphs measured for both Live(L1) and Neutral(N) of the LISN are combined into one graph.

QP / CAV final measurement results table:

Frequency (MHz)	QP (dBµV)	CAV (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)
0.341		26.37	49.17	22.80	N	10.1
0.341	32.93		59.17	26.24	L1	10.1
0.416		32.81	47.54	14.72	N	10.2
0.418	37.73		57.49	19.76	N	10.2
0.449	38.47		56.89	18.42	N	10.2
0.452		33.12	46.85	13.73	N	10.2
6.052	36.87		60.00	23.13	N	10.0
6.090		28.04	50.00	21.96	N	10.0
8.522	47.79		60.00	12.21	N	10.1
8.786		37.85	50.00	12.15	N	10.2
10.464		33.17	50.00	16.83	N	10.3
10.694	41.75		60.00	18.25	N	10.3

#### ☐ Operating Mode 3: AC Mains

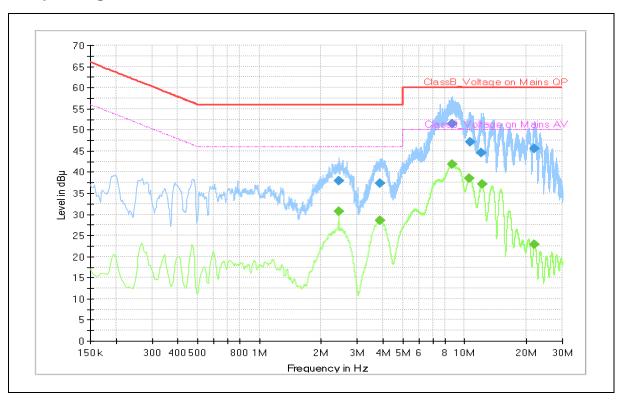


Note 1) Two graphs measured for both Live(L1) and Neutral(N) of the LISN are combined into one graph.

QP / CAV final measurement results table:

Frequency (MHz)	QP (dBµV)	CAV (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)
2.436		30.39	46.00	15.61	N	9.9
2.436	36.43		56.00	19.57	L1	9.9
3.840		28.26	46.00	17.74	N	10.0
3.872	37.22		56.00	18.78	N	10.0
8.558	49.98		60.00	10.02	L1	10.1
8.700		41.88	50.00	8.12	N	10.2
10.419	46.79		60.00	13.21	N	10.3
10.482		38.25	50.00	11.75	N	10.3
13.436	45.03		60.00	14.97	N	10.4
13.538		36.57	50.00	13.43	N	10.4
21.687	45.16		60.00	14.84	N	10.7
21.813		23.20	50.00	26.80	N	10.7

#### ☐ Operating Mode 4: AC Mains

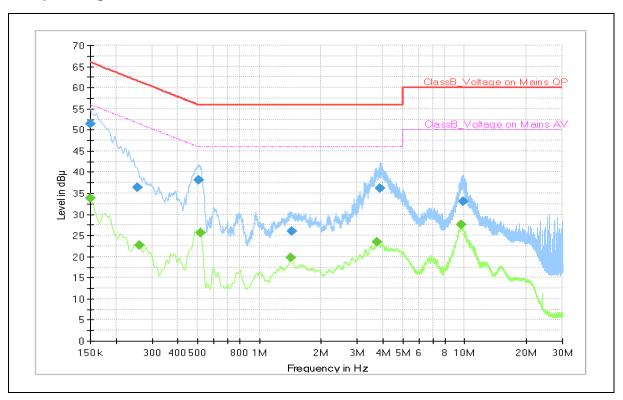


Note 1) Two graphs measured for both Live(L1) and Neutral(N) of the LISN are combined into one graph.

QP / CAV final measurement results table:

Frequency (MHz)	QP (dBµV)	CAV (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)
2.432	37.97		56.00	18.03	N	9.9
2.434		30.70	46.00	15.30	N	9.9
3.872		28.59	46.00	17.41	N	10.0
3.874	37.39		56.00	18.61	N	10.0
8.669	51.34		60.00	8.66	N	10.1
8.716		41.88	50.00	8.12	N	10.2
10.554		38.44	50.00	11.56	N	10.3
10.703	47.09		60.00	12.91	L1	10.2
12.082	44.58		60.00	15.42	N	10.3
12.138		37.20	50.00	12.80	N	10.3
21.788	45.65		60.00	14.35	N	10.7
22.013		22.83	50.00	27.17	N	10.7

#### ☐ Operating Mode 5: 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	51.34		66.00	14.66	N	9.8
0.150		33.74	56.00	22.26	L1	9.8
0.256	36.36		61.57	25.21	L1	9.8
0.260		22.73	51.42	28.69	L1	9.8
0.508	38.22		56.00	17.78	L1	10.1
0.517		25.69	46.00	20.31	L1	10.1
1.430		19.69	46.00	26.31	N	9.9
1.444	25.99		56.00	30.01	N	9.9
3.748		23.45	46.00	22.55	N	9.8
3.863	36.23		56.00	19.77	N	9.8
9.677		27.54	50.00	22.46	L1	9.8
9.881	33.08		60.00	26.92	L1	9.8

Mobile Phone: SM-A525F/DS

#### 5.2 Radiated disturbance

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 Polarisation	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 Polarisation	Resolution Bandwidth [ MHz ]	Video Bandwidth [ MHz ]	Turntable position
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 disturbance of Class B ITE 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  $D_1(3m)$  to  $D_2(10m)$ 

: Limit at  $D_2$  = Limit at  $D_1$  +  $20Log(D_1/D_2)$ 

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

Mobile Phone: SM-A525F/DS

## **5.2.1 Test instrumentation**

					Next Calibration		
EMC No.	Test Instrument	Model name	Manufacturer	Serial No.	Date	Interval (Month)	
E5I-023	Signal Generator	SMB100A	R&S	175857	2021-01-29	12	
E5I-020	EMI Test Receiver	ESU40	R&S	100375	2021-09-14	12	
E5I-018	EMI Test Receiver	ESU8	R&S	100484	2021-05-22	12	
E5I-069	BiLog Antenna	CBL6112D	TESEQ	35382	2021-08-30	24	
E5I-071	BiLog Antenna	CBL6112D	TESEQ	35384	2021-08-30	24	
E5I-093	Preamplifier	310N	SONOMA	273122	2021-01-23	12	
E5I-094	Preamplifier	310N	SONOMA	282363	2021-01-23	12	
E5I-036	Horn Antenna	HF907	R&S	100507	2022-04-23	24	
E5I-039	Signal Conditioning Unit	SCU-18	R&S	10211	2021-01-23	12	
E5I-037	WideBand Horn Antenna	WBH 18-40K	R&S	11201	2021-01-31	24	
E5I-042	Signal Conditioning Unit	SCU-40A	R&S	10004	2021-09-09	12	
-	Test software	EP7RE	TOYO	Ver 5.8.2	-	-	
-	Test software	EMC32	R&S	Ver 9.25.00	-	-	

## 5.2.2 Temperature and humidity condition

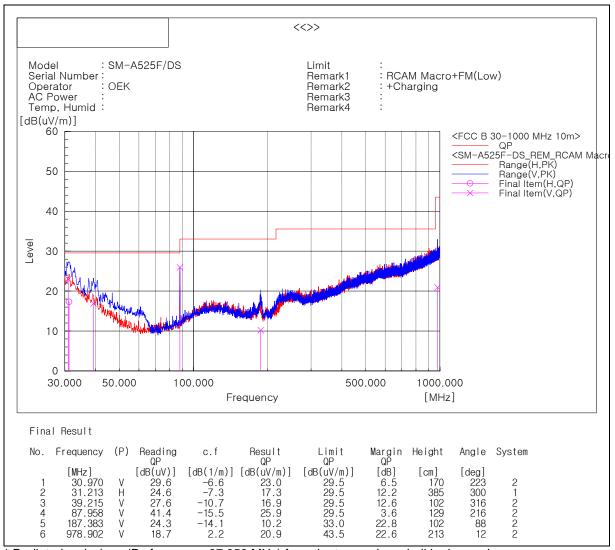
Test date	2020-12-21	Test engineer	Eun-Kyung Oh			
Climate condition	Ambient temperature	(23.0 ± 0.5) ℃	Limit (15.0 to 35.0) ℃			
	Relative humidity	(46.7 ± 0.5) % R.H.	Limit (25.0 to 75.0) % R.H.			
	Atmospheric pressure (101.7 ± 0.5) kPa Limit (86.0 to 106.0)					
Test place	Semi-Anechoic Chamber (SAC4)					

Mobile Phone: SM-A525F/DS

#### 5.2.3 Test results

#### □ Operating Mode 1

#### - Frequencies below 1 GHz



<sup>\*</sup> Radiated emissions (Rx frequency 87.958 MHz) from the transceiver shall be ignored

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)

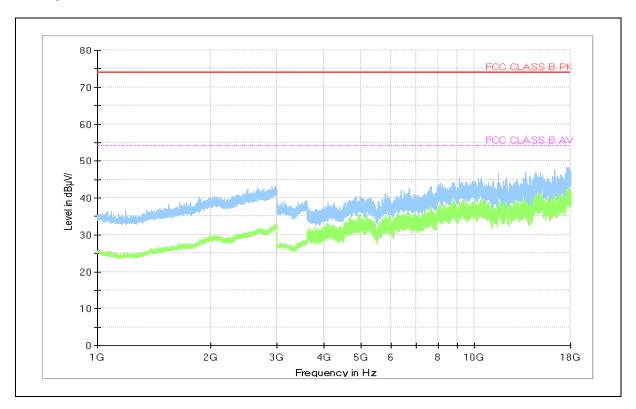
Margin (QP) = Limit - Level (QP)

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

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Mobile Phone: SM-A525F/DS

#### - Frequencies above 1 GHz



Note 1) We have also tested from 18 GHz to 30 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)

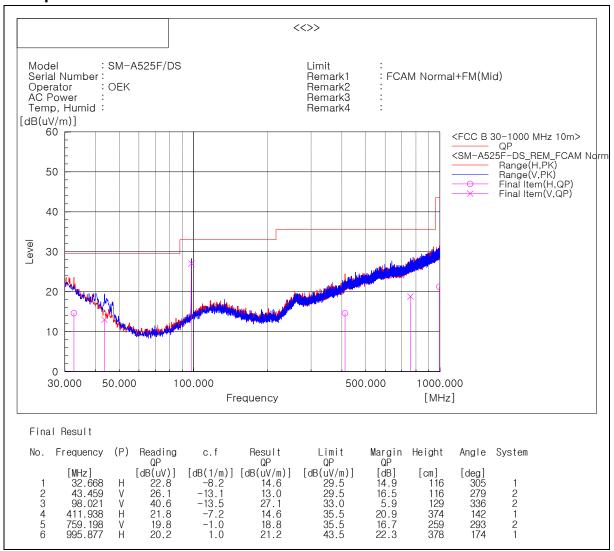
PK = Peak, CAV = CISPR-Average, Corr. = Correction Factor

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Mobile Phone: SM-A525F/DS

#### ☐ Operating Mode 2

#### - Frequencies below 1 GHz



<sup>\*</sup> Radiated emissions (Rx frequency 98.021 MHz) from the transceiver shall be ignored

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)

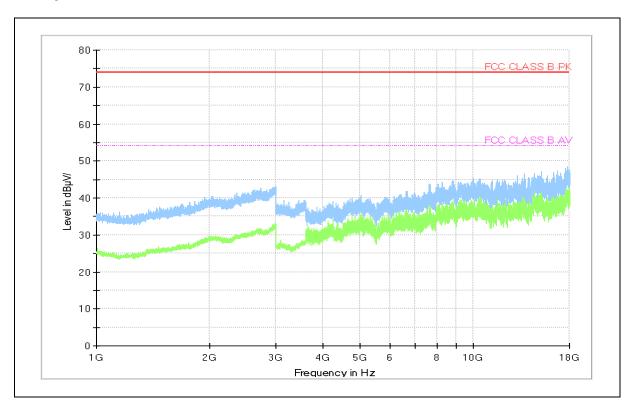
Margin (QP) = Limit - Level (QP)

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

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Mobile Phone: SM-A525F/DS

#### - Frequencies above 1 GHz



Note 1) We have also tested from 18 GHz to 30 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)

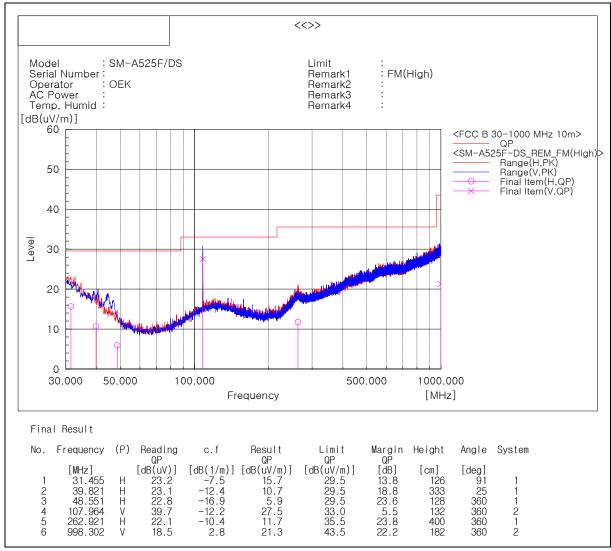
Margin (PK and/or CAV) = Limit – Level (PK and/or CAV)

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

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#### □ Operating Mode 3

#### - Frequencies below 1 GHz



<sup>\*</sup> Radiated emissions (Rx frequency 107.964 MHz) from the transceiver shall be ignored

Note1) Receiving antenna polarization: Horizontal, Vertical

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

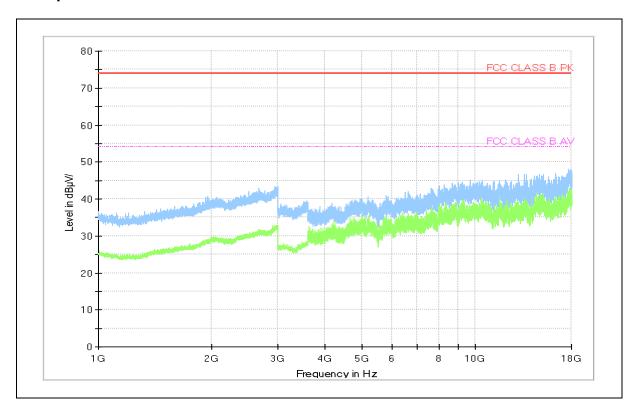
Result (QP) = Reading (QP) + c.f (Antenna Factor + Cable Loss - Amp. Gain)

Margin (QP) = Limit - Level (QP)

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

Mobile Phone: SM-A525F/DS

#### - Frequencies above 1 GHz



Note 1) We have also tested from 18 GHz to 30 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)

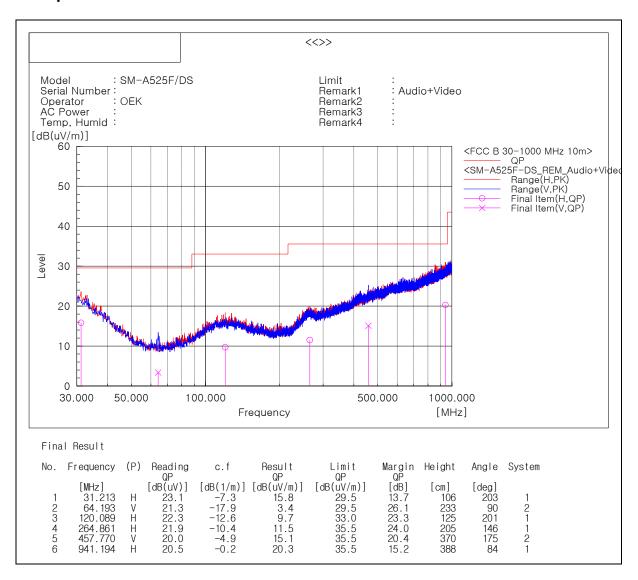
Margin (PK and/or CAV) = Limit – Level (PK and/or CAV)

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

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#### □ Operating Mode 4

#### - Frequencies below 1 GHz



Note1) Receiving antenna polarization: Horizontal, Vertical

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

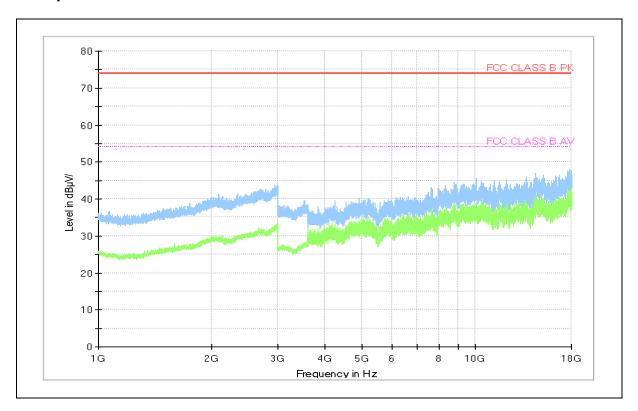
Result (QP) = Reading (QP) + c.f (Antenna Factor + Cable Loss - Amp. Gain)

Margin (QP) = Limit - Level (QP)

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

Mobile Phone: SM-A525F/DS

#### - Frequencies above 1 GHz



Note 1) We have also tested from 18 GHz to 30 GHz and found no emissions.

Note 2) Receiving antenna polarization: Horizontal, Vertical

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

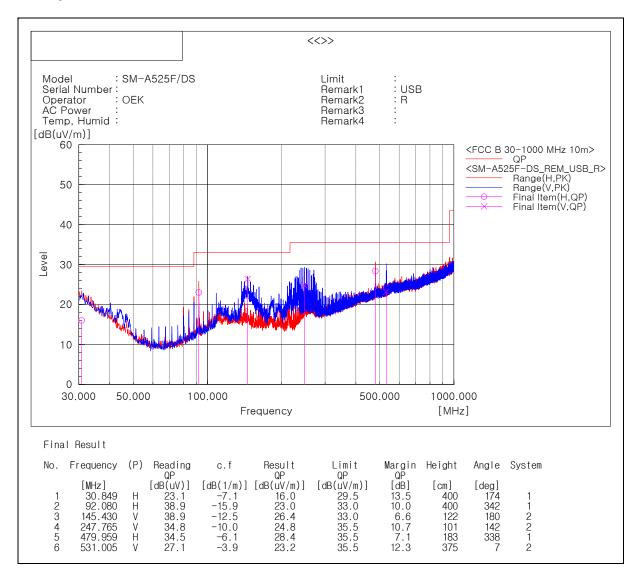
Level (PK and/or CAV) = Reading (PK and/or CAV) + Corr. (Antenna Factor + Cable Loss - Amp. Gain)

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

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

#### ☐ Operating Mode 5

#### - Frequencies below 1 GHz



Note1) Receiving antenna polarization: Horizontal, Vertical

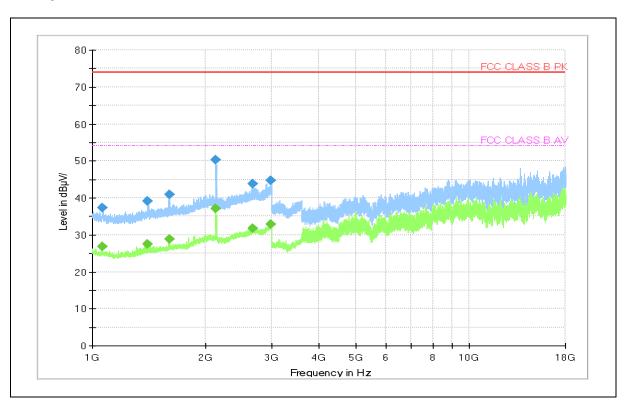
Test Distance: 10 m, Antenna Height: 1 to 4 meters

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

Margin (QP) = Limit - Level (QP)

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

#### - Frequencies above 1 GHz



Frequency (MHz)	PK (dBµV/m)	CAV (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1 062.000	37.22		74.00	36.78	100.4	Н	331.0	7.1
1 062.000		26.85	54.00	27.15	101.0	V	0.0	7.1
1 399.600	39.20		74.00	34.80	101.2	Н	85.0	8.9
1 400.400		27.51	54.00	26.49	100.7	Н	79.0	8.9
1 598.800	40.84		74.00	33.16	100.8	V	122.0	10.2
1 600.000		28.82	54.00	25.18	101.5	V	284.0	10.2
2 124.800	50.20		74.00	23.80	100.6	V	258.0	13.0
2 126.800		37.03	54.00	16.97	100.7	V	279.0	13.0
2 657.600	43.88		74.00	30.12	101.6	V	268.0	15.2
2 662.400		31.78	54.00	22.22	102.0	Н	237.0	15.2
2 974.400		32.89	54.00	21.11	101.8	V	82.0	16.8
2 974.400	44.62		74.00	29.38	100.7	V	82.0	16.8

Note 1) We have also tested from 18 GHz to 30 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