# **EMC TEST REPORT**

Project No.	LBE20200815	Issue No.	0	
	Name of organization	Samsung Elec	etronics Co., Ltd.	
Applicant	Address	(Maetan-dong) 129, Samsung-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16677, Republic of Korea		
	Date of receipt	August 24, 2020		
	Type of device	<ul> <li>✓ All other Receivers subject to part15</li> <li>✓ Class B Personal Computers and peripherals</li> <li>✓ Other Class B digital devices and peripherals</li> <li>✓ FM Broadcast Receiver</li> </ul>		
	Equipment authorization	☐ Certification ☐ Supplier's Declaration of Conformity		
	FCC ID	A3LSMA426B		
EUT	Kind of product	Mobile Phone		
	Model No.	SM-A426B/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 Standards		47 CFR Part 15, Subpart B, Class B / ANSI C63.4-2014		
Test Period	i	September 14, 2020 ~ September 16, 2020		
Issue date		September 17, 2	2020	
Test result	Complied			

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 : Eun-Kyung Oh

Reviewed by : Sun-Ho Kim

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

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Mobile Phone: SM-A426B/DS

## 1. Report Information

### 1.1 Revision history

No.	Date of Issue	Revised detailed information
Issue 0	September 17, 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.

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## 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-A426B/DS	-	SAMSUNG	A3LSMA426B			
В	Battery	EB-BA426ABY	-	SDI	-			
С	Headset	EHS64AVFWE	-	Cresyn	-			
D	Data Cable	EP-DR140	-	RFTECH	-			
Е	Micro SD Card	64GB	-	SAMSUNG	DoC			
F	Laptop Computer	Laptop	l otitudo FFOO	1WYRYM2	Dell	DoC		
F		Latitude5580	D3HRYM2	Dell	DoC			
	Laptop AC Adapter	Laptop	Laptop	Laptop	L ACENIMA 20	5DEA	Dell	DoC
G		LA65NM130	5B3C	Dell	DoC			
Н	Mouse	AA-SM7PCPB	CN57BA5903634ADV 8JJCD4371 SAMSUNG		DoC			
		SN	SNJ-B138	Z5F8353	SAMSUNG	DoC		
	Douter	Router DIR-806A	RF0F1D8018454	D-Link	DoC			
'	Kouter		RF0F1D8011504	D-Link	DoC			
J	Travel Adapter	EP-TA200	R37N4E40022SE3	SOLU-M	-			

Form No.: SRA-TRF-46/11

Mobile Phone: SM-A426B/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 (GSM850 Center Frequency) + 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
5	USB Data Communication with PC (from external memory data)

## 4.3 Details of Sampling

Customer selected, single unit.

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## 4.4 Used cable description

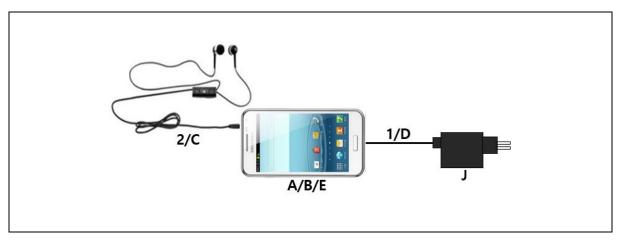
The EUT is configured, installed, arranged and operated in a manner consistent with typical applications. Interface cables/loads/devices are connected to at least one of each type of interface port of the EUT, and where practical, each cable shall be terminated in a device typical of actual usage. The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

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	

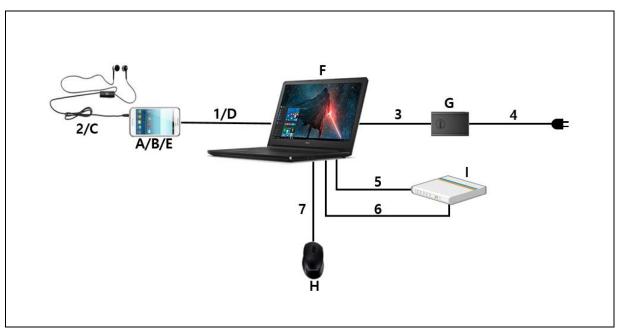
Form No.: SRA-TRF-46/11

## 4.5 Test arrangement

## 4.5.1 Conducted Emission

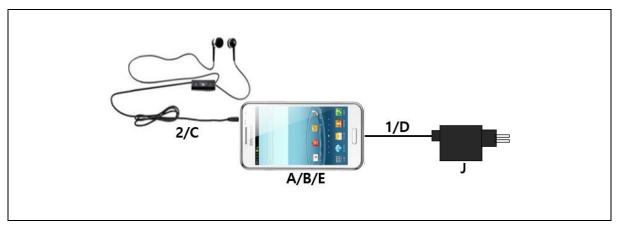


[ Mode 1 - 4 ]

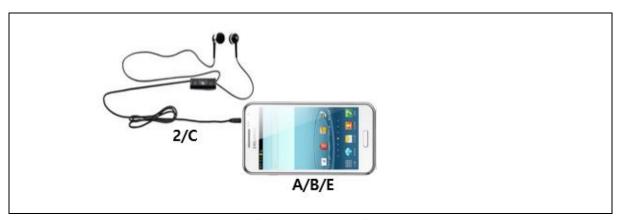


[ Mode 5 ]

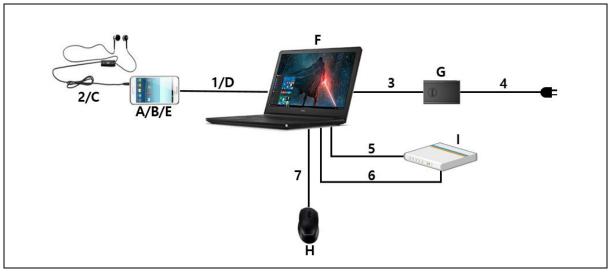
## 4.5.2 Radiated Emission



[ Mode 1 ]



[ Mode 2 - 4 ]



[ Mode 5 ]

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## 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 1/2/3/4/5/7/8/12/17/20/28, LTE TDD 38/40/41, 5G NR n1/3/5/7/8/28/40/41/78 and incorporates a Bluetooth, Wi-Fi, Camera, FM Radio, GNSS, NFC, Audio and Video.

4.6.1 The variant models

- SM-A426B

### 4.7 EUT Frequencies

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

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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, 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 GSM850 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 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	3.97 dB
(Below 1 GHz)	Vertical	4.39 dB
Radiated Disturbance	Horizontal	5.21 dB
(Above 1 GHz)	Vertical	5.21 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 55016-4-2. 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 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-002	Universal Radio Communicator	CMU200	R&S	100612	2021-08-12	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	-	-

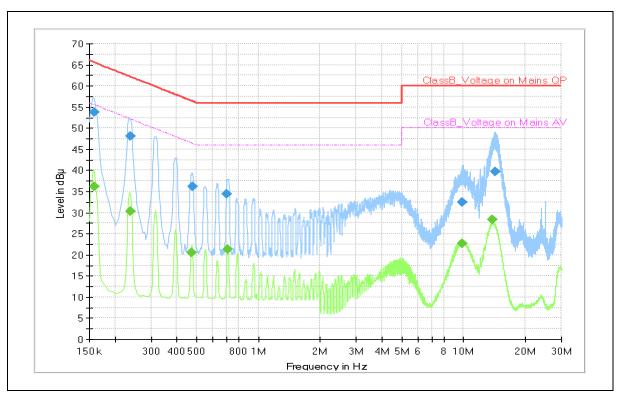
### 5.1.2 Temperature and humidity condition

Test date	2020-09-16	Test engineer	Eun-Kyung Oh			
	Ambient temperature	(20.5 ± 0.5) °C	Limit (15.0 to 35.0) ℃			
Climate condition	Relative humidity	(64.3 ± 0.5) % R.H.	Limit (25.0 to 75.0) % R.H.			
	Atmospheric pressure	(100.7 ± 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

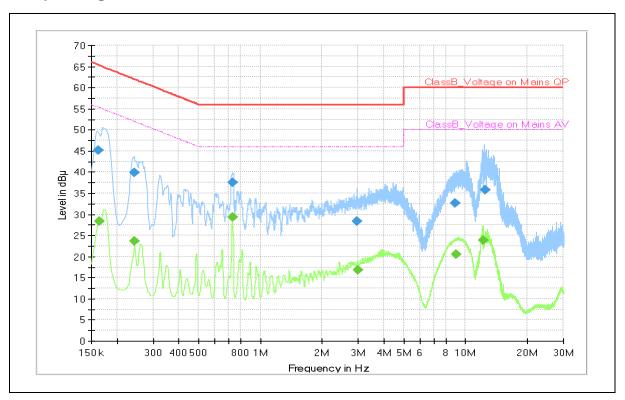


Note 1) Two graphs measured for both Live(L1) and Neutral(N) of the LISN are combined into one graph.

QP / CAV final measurement results table:

Frequency (MHz)	QP (dBµV)	CAV (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)
0.158	53.75		65.57	11.82	N	10.1
0.158		36.21	55.57	19.36	N	10.1
0.237		30.36	52.20	21.84	N	9.9
0.237	48.10		62.20	14.10	N	9.9
0.472		20.50	46.49	25.99	L1	10.2
0.476	36.11		56.42	20.31	L1	10.2
0.702	34.43		56.00	21.57	L1	10.1
0.710		21.41	46.00	24.59	L1	10.1
9.833		22.70	50.00	27.30	L1	10.1
9.888	32.54		60.00	27.46	N	10.2
13.733		28.35	50.00	21.65	L1	10.3
14.268	39.78		60.00	20.22	N	10.4

#### ☐ Operating Mode 2: AC Mains

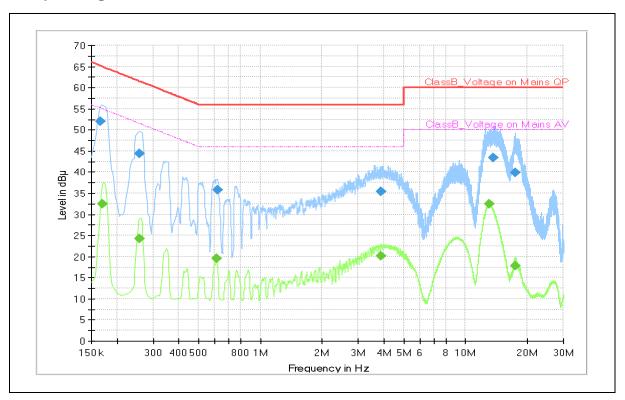


Note 1) Two graphs measured for both Live(L1) and Neutral(N) of the LISN are combined into one graph.

QP / CAV final measurement results table:

Frequency (MHz)	QP (dBµV)	CAV (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)
0.162	45.15		65.36	20.21	N	10.2
0.164		28.38	55.25	26.87	N	10.2
0.242		23.68	52.03	28.35	L1	9.9
0.242	39.87		62.03	22.16	N	9.9
0.732		29.35	46.00	16.65	L1	10.1
0.734	37.54		56.00	18.46	L1	10.1
2.954	28.32		56.00	27.68	N	9.9
3.001		16.76	46.00	29.24	N	9.9
8.951	32.66		60.00	27.34	N	10.2
8.954		20.44	50.00	29.56	N	10.2
12.147		23.91	50.00	26.09	N	10.3
12.409	35.71		60.00	24.29	N	10.3

#### ☐ Operating Mode 3: AC Mains

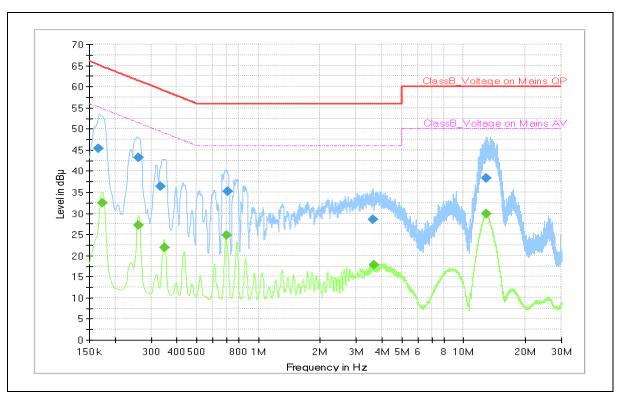


Note 1) Two graphs measured for both Live(L1) and Neutral(N) of the LISN are combined into one graph.

QP / CAV final measurement results table:

Frequency (MHz)	QP (dBµV)	CAV (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)
0.166	52.05		65.16	13.11	N	10.2
0.170		32.54	54.96	22.42	N	10.3
0.258		24.22	51.50	27.28	N	9.9
0.258	44.32		61.50	17.18	N	9.9
0.613		19.57	46.00	26.43	L1	10.2
0.617	35.82		56.00	20.18	L1	10.2
3.860		20.14	46.00	25.86	L1	10.0
3.868	35.40		56.00	20.60	N	10.0
13.016		32.47	50.00	17.53	L1	10.2
13.700	43.43		60.00	16.57	N	10.4
17.520		17.87	50.00	32.13	N	10.6
17.581	39.87		60.00	20.13	N	10.6

#### ☐ Operating Mode 4: AC Mains

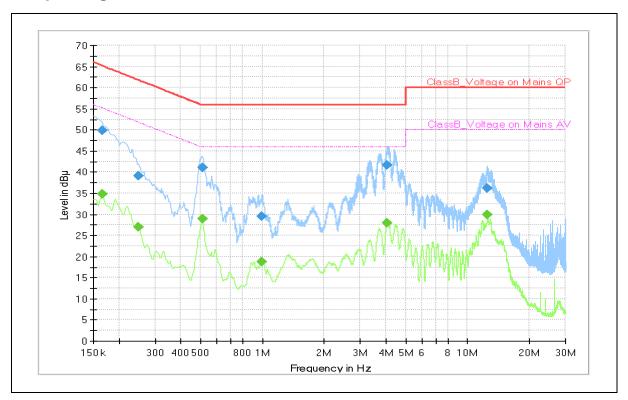


Note 1) Two graphs measured for both Live(L1) and Neutral(N) of the LISN are combined into one graph.

QP / CAV final measurement results table:

Frequency (MHz)	QP (dBµV)	CAV (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)
0.166	45.32		65.16	19.84	N	10.2
0.174		32.47	54.77	22.30	L1	10.3
0.260	43.28		61.45	18.17	N	9.9
0.262		27.13	51.38	24.25	L1	9.9
0.334	36.32		59.35	23.03	L1	10.1
0.350		21.95	48.97	27.02	L1	10.1
0.702		24.78	46.00	21.22	L1	10.1
0.706	35.26		56.00	20.74	L1	10.1
3.609	28.62		56.00	27.38	L1	10.0
3.670		17.79	46.00	28.21	L1	10.0
12.842	38.41		60.00	21.59	N	10.4
12.885		29.83	50.00	20.17	L1	10.2

#### ☐ 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)
0.166		34.72	55.17	20.45	L1	10.1
0.166	49.93		65.17	15.24	L1	10.1
0.249		26.97	51.79	24.82	L1	9.7
0.249	39.02		61.79	22.77	L1	9.7
0.510		28.94	46.00	17.06	L1	10.1
0.510	41.11		56.00	14.89	L1	10.1
0.992	29.53		56.00	26.47	N	9.9
0.992		18.77	46.00	27.23	N	9.9
4.038	41.58		56.00	14.42	N	9.8
4.038		27.98	46.00	18.02	N	9.8
12.485		29.96	50.00	20.04	L1	9.9
12.485	36.14		60.00	23.86	L1	9.9

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#### 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.

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## **5.2.1 Test instrumentation**

EMC.		Madal			Next Calibration		
EMC No.	Test Instrument	Model name	Manufacturer	Serial No.	Date	Interval (Month)	
E5I-002	Universal Radio Communicator	CMU200	R&S	100612	2021-08-12	12	
E5I-021	EMI Test Receiver	ESU40	R&S	100376	2021-01-31	12	
E5I-016	EMI Test Receiver	ESU8	R&S	100482	2021-06-04	12	
E5I-070	BiLog Antenna	CBL6112D	TESEQ	35383	2020-10-12	24	
E5I-121	BiLog Antenna	CBL6112D	TESEQ	36999	2020-10-12	24	
E5I-073	Preamplifier	310N	SONOMA	332016	2021-05-07	12	
E5I-074	Preamplifier	310N	SONOMA	332017	2021-05-07	12	
E5I-035	Horn Antenna	HF907	R&S	100506	2021-08-30	24	
E5I-040	Signal Conditioning Unit	SCU-18	R&S	10210	2021-04-06	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	-	-	

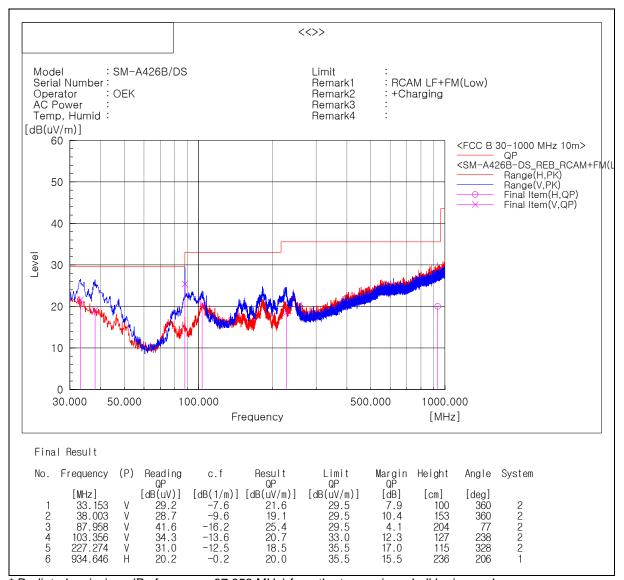
## 5.2.2 Temperature and humidity condition

Test date	2020-09-14	Test engineer	Eun-Kyung Oh			
	Ambient temperature	(23.3 ± 0.5) ℃	Limit (15.0 to 35.0) ℃			
Climate condition	Relative humidity	(67.5 ± 0.5) % R.H.	Limit (25.0 to 75.0) % R.H.			
	Atmospheric pressure (100.5 ± 0.5) kPa Limit (86.0 to 106.0					
Test place	Semi-Anechoic Chamber (SAC5)					

#### 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

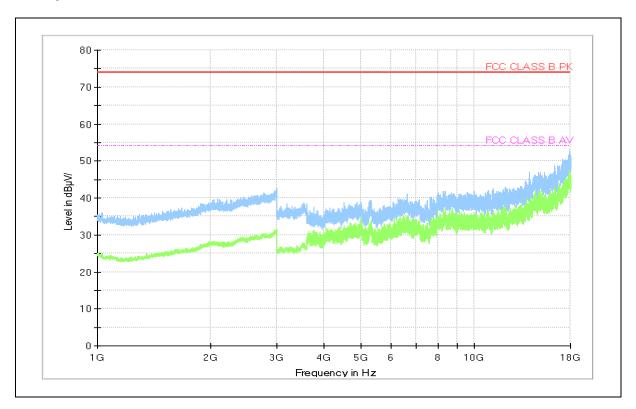
Result (QP) = Reading (QP) + c.f (Antenna Factor + Cable Loss - Amp. Gain)

Margin (QP) = Limit – Level (QP)

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

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#### - 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

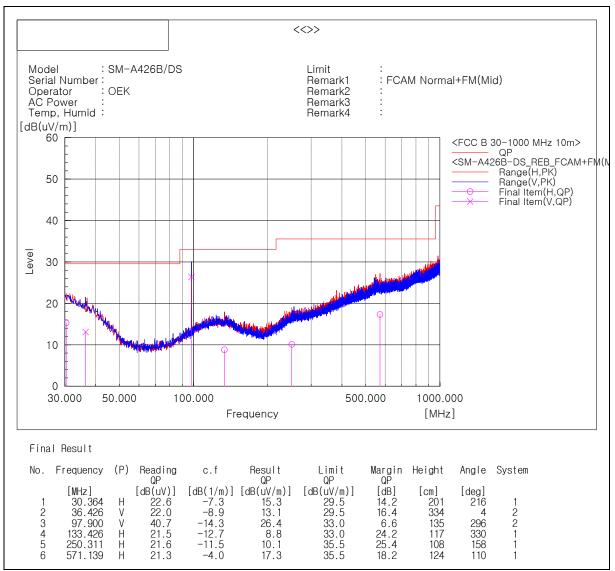
Level (PK and/or CAV) = Reading (PK and/or CAV) + Corr. (Antenna Factor + Cable Loss - Amp. Gain)

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

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

#### ☐ Operating Mode 2

#### - Frequencies below 1 GHz



<sup>\*</sup> Radiated emissions (Rx frequency 97.900 MHz) from the transceiver shall be ignored

Note1) Receiving antenna polarization : Horizontal, Vertical

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

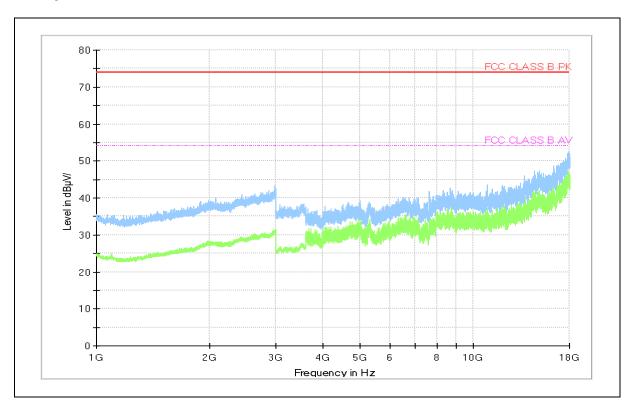
Result (QP) = Reading (QP) + c.f (Antenna Factor + Cable Loss - Amp. Gain)

Margin (QP) = Limit - Level (QP)

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

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#### - 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

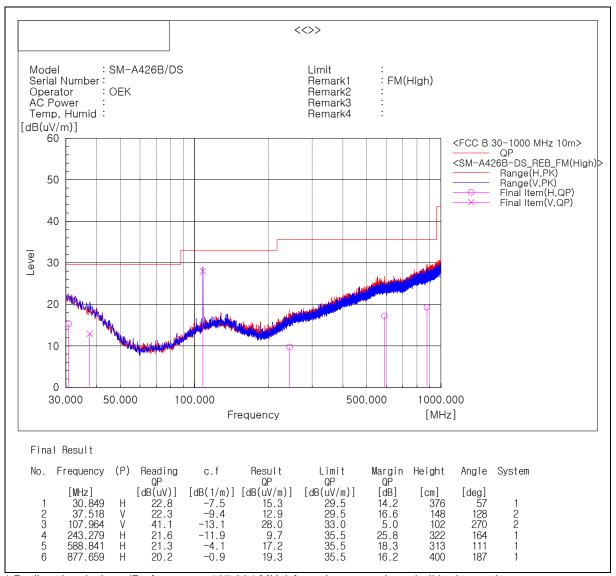
Level (PK and/or CAV) = Reading (PK and/or CAV) + Corr. (Antenna Factor + Cable Loss - Amp. Gain)

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

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

#### □ Operating Mode 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

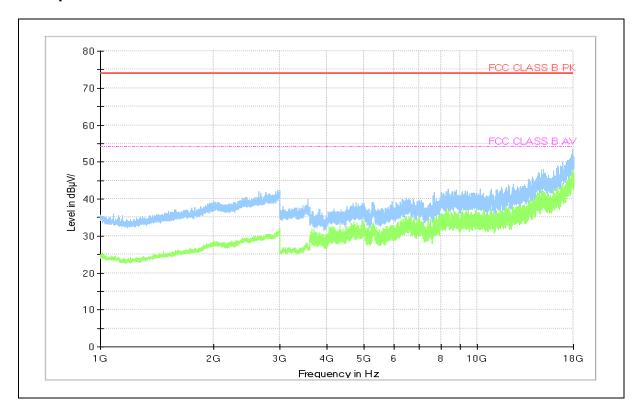
Result (QP) = Reading (QP) + c.f (Antenna Factor + Cable Loss - Amp. Gain)

Margin (QP) = Limit - Level (QP)

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

Mobile Phone: SM-A426B/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)

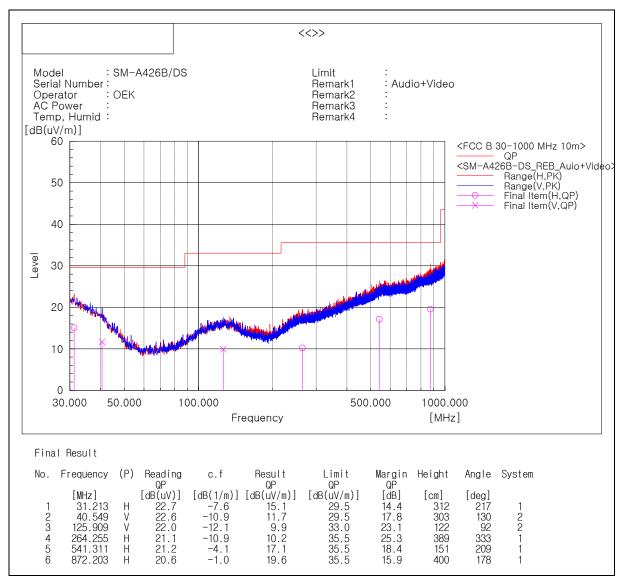
PK = Peak, CAV = CISPR-Average, Corr. = Correction Factor

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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

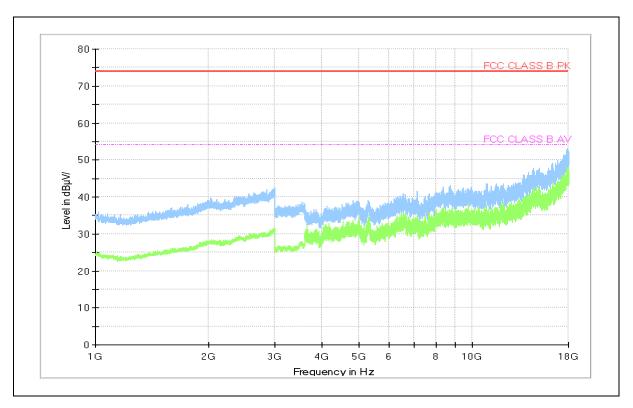
Result (QP) = Reading (QP) + c.f (Antenna Factor + Cable Loss - Amp. Gain)

Margin (QP) = Limit - Level (QP)

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

Mobile Phone: SM-A426B/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)

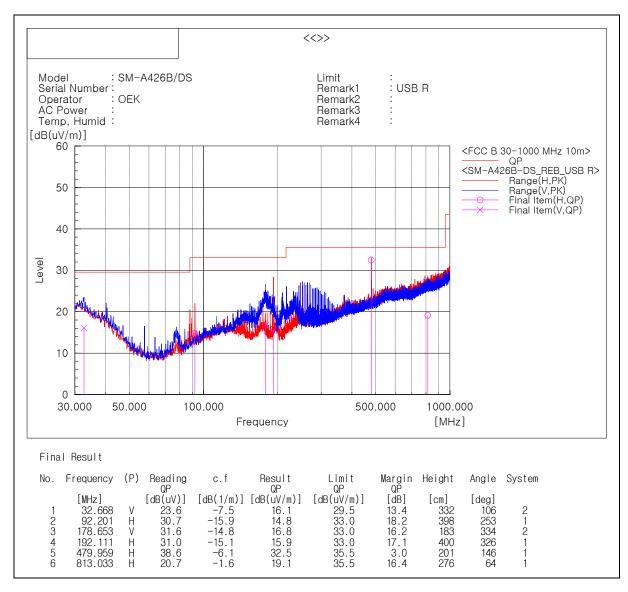
PK = Peak, CAV = CISPR-Average, Corr. = Correction Factor

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#### □ Operating Mode 5

#### - Frequencies below 1 GHz



Note1) Receiving antenna polarization: Horizontal, Vertical

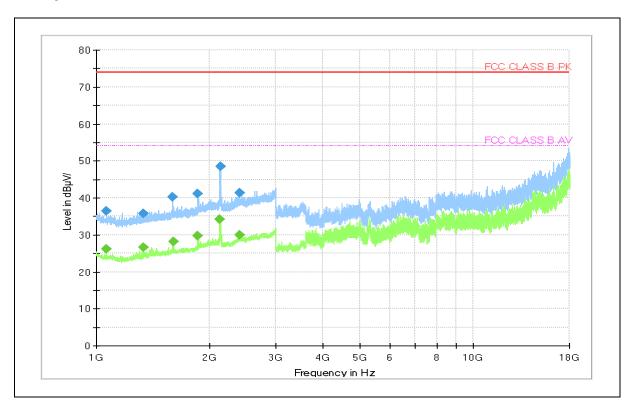
Test Distance : 10 m, Antenna Height : 1 to 4 meters

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)
1 063.000		26.08	54.00	27.92	100.3	V	358.0	5.9
1 064.500	36.49		74.00	37.51	100.8	V	358.0	5.9
1 330.500		26.50	54.00	27.50	100.5	V	171.0	7.1
1 333.000	35.76		74.00	38.24	100.0	V	164.0	7.1
1 596.500	40.27		74.00	33.73	101.0	V	150.0	9.2
1 598.500		28.11	54.00	25.89	100.8	V	150.0	9.2
1 858.500	41.14		74.00	32.86	100.2	V	0.0	10.5
1 860.500		29.64	54.00	24.36	100.4	V	120.0	10.5
2 130.000		34.16	54.00	19.84	100.0	V	340.0	11.6
2 131.000	48.45		74.00	25.55	101.2	V	22.0	11.6
2 395.000		29.99	54.00	24.01	100.9	V	247.0	12.7
2 398.000	41.39		74.00	32.61	100.2	V	0.0	12.7

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