EMC TEST REPORT

Project No.	LBE20210661	Issue No.	2	
Applicant	Name of organization	Samsung Electi	ronics Co., Ltd.	
	Address		129, Samsung-ro, Yeongtong-gu, nggi-do, 16677, Korea	
	Date of receipt	October 12, 202	21	
	Type of device	■ Class B pers	eivers subject to Part 15 onal computers and peripherals B digital devices and peripherals st Receiver	
	Equipment authorization	■ Certification	☐ Supplier's Declaration of Conformity	
	FCC ID	A3LSMS906E		
	Kind of product	Mobile Phone		
EUT	Model No.	SM-S906E/DS		
	Variant Model No.	Refer to clause 4.6		
	Manufacturer		onics Vietnam Co., Ltd. Yentrung Commune, Yenphong Dist., e, Vietnam	
			onics Vietnam Thai Nguyen Co., Ltd. al Zone Pho Ten Dist., vince, Vietnam	
		Samsung Electr 302, 3 Gongdan 39388, Korea	onics Co., Ltd. 3-ro, Gumi-si, Gyengsangbuk-do,	
Applied Standards		47 CFR Part 15, Subpart B, Class B / ANSI C63.4-2014		
Test Period		October 13, 2021 ~ October 25, 2021		
Issue date		November 3, 2021		
Test result	: Complied ent under test has found to	be compliant with	the applied standards.	

(Refer to the attached test result for more detail.)

Tested by : Ji-Yeon Lee

J. T. Lee

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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1. Report Information

1.1 Revision history

No.	Date of Issue	Revised detailed information		
Issue 0	October 26, 2021	There are no revisions and this version is basic test report.		
Issue 1	October 27, 2021	5G NR bands and Wi-Fi highest frequency are corrected because of typing error.		
Issue 2	ue 2 November 3, 2021 Operating band(LTE FDD32) is deleted because of typing error			

X 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 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.

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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:

Description	Model No.	Serial No.	Manufacturer / Trademark	FCC ID
Mobile Phone	SM-S906E/DS	-	SAMSUNG	A3LSMS906E
Battery	EB-BS906ABY	-	SDI	-
Headset	YBD-19HS	-	ALMUS	-
Data Cable	EP-DN980	-	RF TECH	-
Laptop Computer	Latitude5580	1WYRYM2	Dell	DoC
Laptop Computer	Latitude5580	D3HRYM2	Dell	DoC
Laptop AC Adapter	Laptop AC Adapter LA65NM130 5DEA		Dell	DoC
Laptop AC Adapter	LA65NM130	5B3C	Dell	DoC
Mouse	AA-SM7PCPB	CN57BA5903634ADV8JJC D4371	SAMSUNG	DoC
Mouse	se SMH-210UB TAKGA05788Z SAM		SAMSUNG	DoC
Router	DIR-806A	RF0F1D8018454	D-Link	DoC
Router	Router DIR-806A RF0F1D8011504		D-Link	DoC
Travel Adapter EP-TA800		R37N9AQ92G8SE3	SoluM	-
DP Monitor	27DU88	711NTQD8H004	LG	DoC
DP Monitor Power Supply	LCAP31	EH8NN629490055062	LG	DoC
DP Cable	JCA141	BW2K1709000770	J5CREATE	DoC

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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.

Mobile Phone: SM-S906E/DS

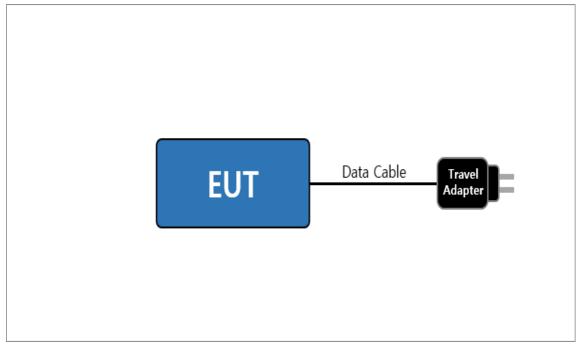
4.4 Used cable description

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:

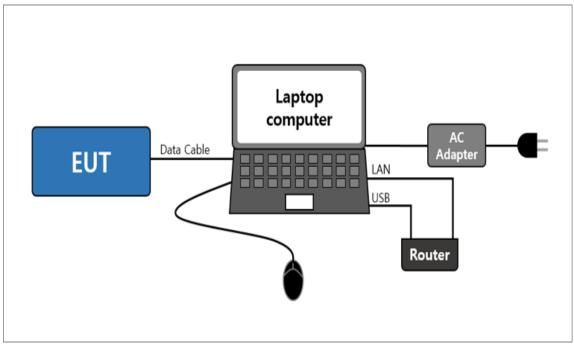
Connected cable	Length [m]	Shielded [Y/N]	Note	
Data Cable	1.0	Y	From EUT to Laptop Computer or Travel Adapter	
Headset	1.3	N	For EUT	
Power	1.8	N	From Laptop Computer to AC Adapter	
Power	1.5	N	For Laptop AC Adapter	
LAN	1.5	N	From Laptop Computer to Router	
USB	0.8	Y	From Laptop Computer to Router 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	

4.5 Test arrangement

4.5.1 Conducted Emission

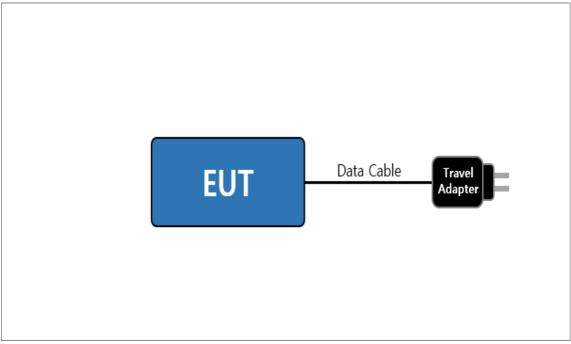


[Mode 1 – 3]

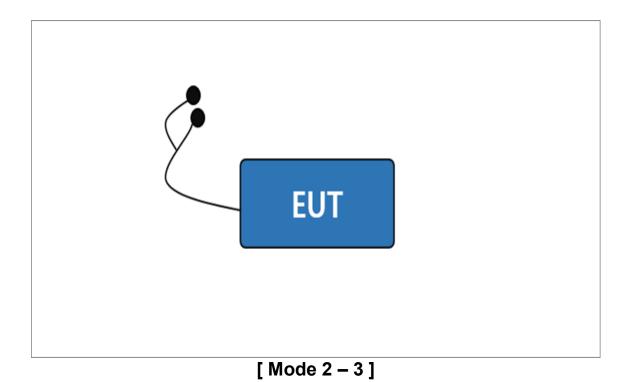


[Mode 4]

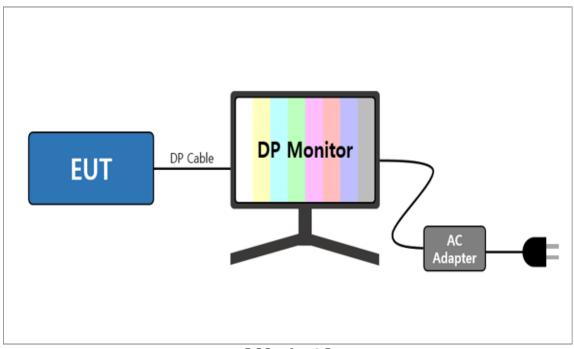
4.5.2 Radiated Emission



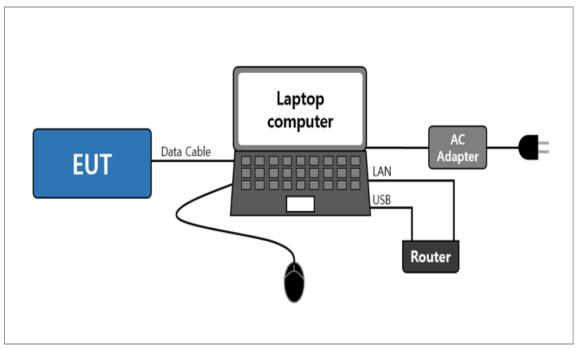
[Mode 1]



-8/28-



[Mode 4]



[Mode 5]

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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 1/2/3/4/5/7/8/12/13/17/18/19/20/25/26/28/66, LTE TDD 38/39/40/41, 5G NR n1/2/3/5/7/8/12/20/25/28/38/40/41/66/77/78 and incorporates a Bluetooth, Wi-Fi (802.11 b/g/n/a/ac/ax), Camera, Audio, Video, GNSS, UWB, DP, NFC, Wireless Charging and Wireless power sharing.

4.6.1 The variant models

- SM-S906E

4.7 EUT Frequencies

The highest frequencies (Generated and used)	Frequency [MHz]
Wi-Fi	7 125
UWB	8 250

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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.

RX mode(850MHz) testing was performed with the LTE FDD26 RX Test mode at center frequency. All licensed communication (850MHz) RX mode, GSM/WCDMA/LTE, test results are not significantly different.

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

The video and audio 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	2.82 dB	
Radiated Emission	Horizontal	4.06 dB	
(Below 1 GHz)	Vertical	4.74 dB	
Radiated Emission	Horizontal	4.99 dB	
(Above 1 GHz)	Vertical	4.99 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 [MHz]	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

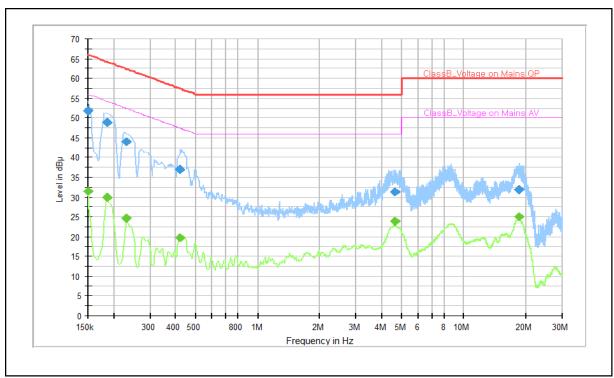
EMC		Model name	Manufacturer	Serial No.	Next Calibration	
No.	Test Instrument				Date	Interval (Month)
E5I-006	LTE Communicator	CMW500	R&S	132728	2022-04-06	12
E5I-127	Two-Line V-Network	ENV216	R&S	102061	2022-08-02	12
E5I-016	EMI Test Receiver	ESU8	R&S	100482	2022-06-03	12
-	Test software	EMC32	R&S	Ver 10.60.20	-	-

5.1.2 Temperature and humidity condition

Test date	2021-10-25	Test engineer	Ji-Yeon Lee			
	Ambient temperature	(23.5 ± 0.5) °C	Limit (15.0 to 35.0) °C			
Climate condition	Relative humidity	(42.6 ± 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)				

5.1.3 Test Results

□ Operating Mode 1: AC Mains

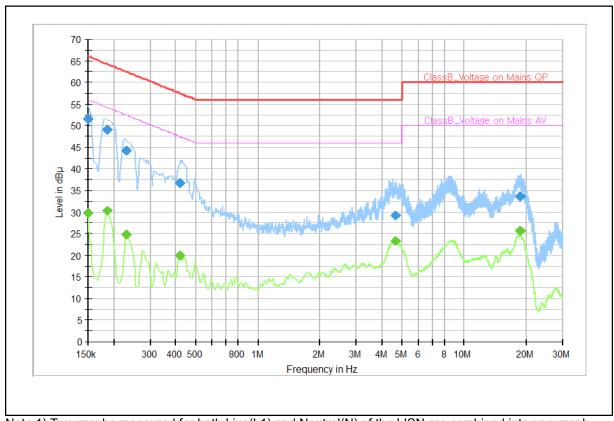


Note 1) Two graphs measured for both Live(L1) and Neutral(N) of the LISN are combined into one graph.

QP / CAV final measurement results table:

Frequency (MHz)	QP (dBµV)	CAV (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)
0.150	51.8		66.0	14.2	N	9.8
0.150		31.4	56.0	24.6	N	9.8
0.186	49.0		64.2	15.3	L1	10.0
0.186		29.9	54.2	24.4	L1	10.0
0.231	44.0		62.4	18.4	L1	9.9
0.231		24.6	52.4	27.8	L1	9.9
0.418		19.8	47.5	27.7	L1	10.2
0.418	37.0		57.5	20.5	L1	10.2
4.657	31.2		56.0	24.8	L1	9.9
4.657		23.8	46.0	22.2	L1	9.9
18.569		25.0	50.0	25.0	N	10.6
18.569	31.8		60.0	28.2	N	10.6

□ Operating Mode 2: AC Mains

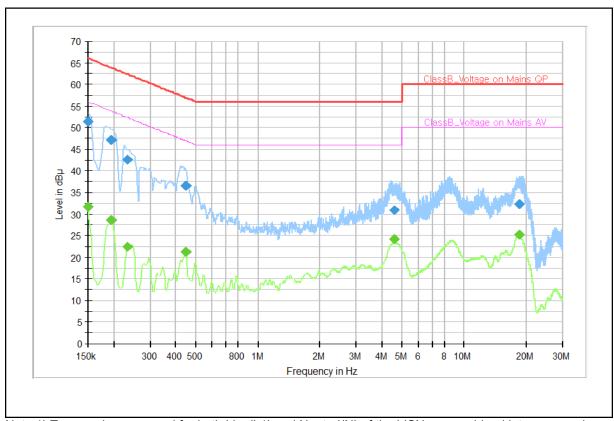


Note 1) Two graphs measured for both Live(L1) and Neutral(N) of the LISN are combined into one graph.

QP / CAV final measurement results table:

Frequency (MHz)	QP (dBµV)	CAV (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)
0.150	51.6		66.0	14.4	N	9.8
0.150		29.8	56.0	26.2	N	9.8
0.186	49.1		64.2	15.1	L1	10.0
0.186		30.2	54.2	24.0	L1	10.0
0.231	44.2		62.4	18.2	L1	9.9
0.231		24.9	52.4	27.5	L1	9.9
0.416		19.9	47.5	27.7	L1	10.2
0.416	36.8		57.5	20.8	L1	10.2
4.661	29.0		56.0	27.0	L1	9.9
4.661		23.3	46.0	22.7	L1	9.9
18.632		25.6	50.0	24.4	N	10.6
18.632	33.6		60.0	26.4	N	10.6

□ Operating Mode 3: AC Mains

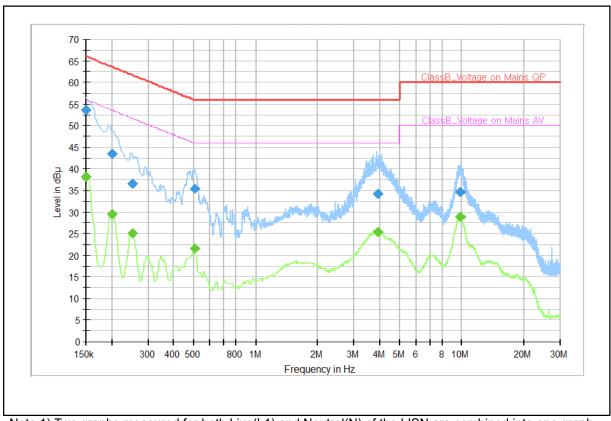


Note 1) Two graphs measured for both Live(L1) and Neutral(N) of the LISN are combined into one graph.

QP / CAV final measurement results table:

Frequency (MHz)	QP (dBµV)	CAV (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)
0.150		31.6	56.0	24.4	L1	9.9
0.150	51.4		66.0	14.6	L1	9.9
0.195		28.5	53.8	25.3	L1	10.0
0.195	47.1		63.8	16.7	L1	10.0
0.233	42.6		62.3	19.7	N	9.8
0.233		22.4	52.3	29.9	N	9.8
0.445		21.4	47.0	25.6	L1	10.2
0.445	36.6		57.0	20.4	L1	10.2
4.607	31.0		56.0	25.0	L1	9.9
4.607		24.2	46.0	21.8	L1	9.9
18.434		25.2	50.0	24.8	N	10.6
18.434	32.2		60.0	27.8	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)
0.150	53.6		66.0	12.4	N	9.8
0.150		38.2	56.0	17.8	N	9.8
0.202		29.5	53.5	24.0	L1	9.9
0.202	43.5		63.5	20.1	L1	9.9
0.251	36.6		61.7	25.1	L1	9.7
0.251		25.0	51.7	26.8	L1	9.7
0.503		21.4	46.0	24.6	L1	10.1
0.503	35.3		56.0	20.7	L1	10.1
3.896	34.2		56.0	21.8	N	9.7
3.896		25.5	46.0	20.5	N	9.7
9.886	34.6		60.0	25.4	L1	9.9
9.886		28.9	50.0	21.1	L1	9.9

Mobile Phone: SM-S906E/DS

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 [kHz]	Video Bandwidth [kHz]	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.

Mobile Phone: SM-S906E/DS

5.2.1 Test instrumentation

EMC	_ ,. ,	Model			Next Calil	oration
No.	Test Instrument	name	Manufacturer	Serial No.	Date	Interval (Month)
E5I-021	EMI Test Receiver	ESU40	R&S	100376	2022-02-04	12
E5I-018	EMI Test Receiver	ESU8	R&S	100484	2022-05-26	12
E5I-020	EMI Test Receiver	ESU40	R&S	100375	2022-09-23	12
E5I-072	BiLog Antenna	CBL6112D	TESEQ	36009	2022-05-15	24
E5I-223	6 dB Fixed Attenuator	8491B-006	Agilent	58359	2022-05-15	24
E5I-120	BiLog Antenna	og Antenna CBL6112D TESEQ 369		36997	2022-05-15	24
E5I-189	6 dB Fixed Attenuator	xed Attenuator 8491A Keysight MY524		MY52462295	2022-05-15	24
E5I-093	Preamplifier	mplifier 310N SONOM		273122	2022-01-21	12
E5I-094	Preamplifier	310N	SONOMA	282363	2022-01-21	12
E5I-149	Horn Antenna	HF907	R&S	102525	2022-07-10	24
E5I-040	Signal Conditioning Unit	SCU-18	R&S	10210	2022-04-06	12
E5I-037	WideBand Horn Antenna	WBH 18-40K	R&S	11201	2023-02-15	24
E5I-042	Signal Conditioning Unit	SCU-40A	R&S	10004	2022-09-10	12
-	Test software EP7RE		TOYO	Ver 8.0.20	-	-
-	Test software	EMC32	R&S	Ver 9.25.00	-	-

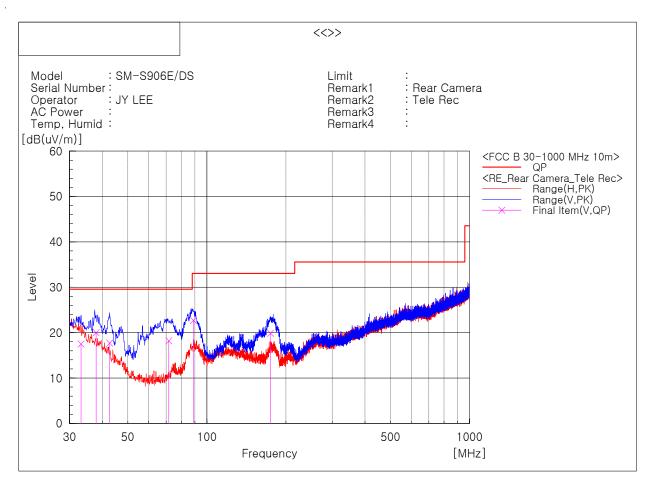
5.2.1 Temperature and humidity condition

Test date	Ambient temperature	Test engineer	Ji-Yeon Lee				
	Ambient temperature	(22.6 ± 0.5) °C	Limit (15.0 to 35.0) °C				
Climate condition	Relative humidity	(48.9 ± 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 (SAC5)					

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	Remark
	[MHz]		[dB(uV)]	[dB(1/m)]	[dB(uV/m)]	[dB(uV/m)]	[dB]	[cm]	[deg]		
1	33.153	V	24.1	-6.6	17.5	29.5	12.0	100	104	2	
2	37.856	V	28.3	-8.3	20.0	29.5	9.5	300	42	2	
3	42.610	V	28.7	-11.0	17.7	29.5	11.8	100	59	2	
4	71.594	V	35.9	-17.7	18.2	29.5	11.3	188	0	2	
5	88.803	V	37.7	-15.0	22.7	33.0	10.3	133	222	2	
6	174.514	V	33.4	-13.5	19.9	33.0	13.1	133	72	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)

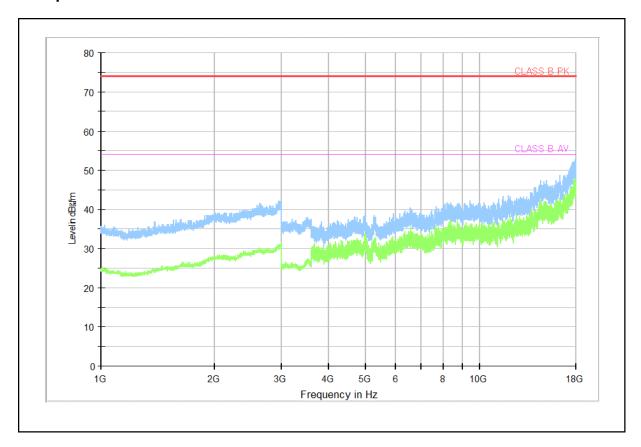
Margin (QP) = Limit - Level (QP)

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

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Mobile Phone: SM-S906E/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

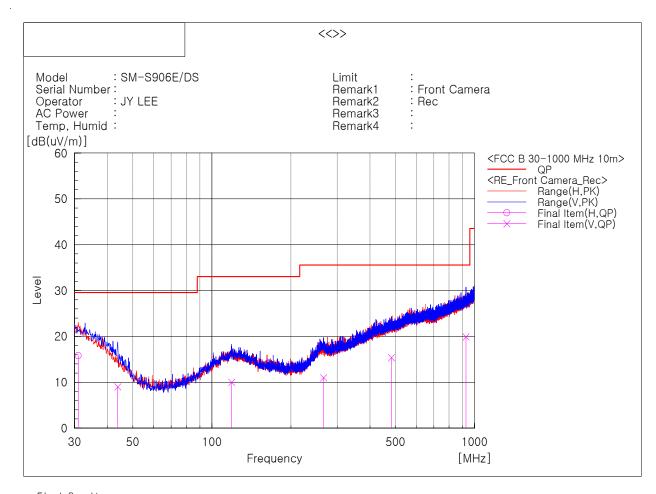
Level (PK and/or CAV) = Reading (PK and/or CAV) + Corr. (Antenna Factor + Cable Loss - Amp. Gain)

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

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

□ Operating Mode 2

- Frequencies below 1 GHz



Final Result

No.	Frequency	(P)	Reading QP	c.f	Result QP	Limit QP	Margin QP	Height	Angle	System	Remark
	[MHz]		[dB(uV)]	[dB(1/m)]	[dB(uV/m)]	[dB(uV/m)]	[dB]	[cm]	[deg]		
1	30.970	Н	23.1	-7.3	15.8	29.5	13.7	103	65	1	
2	43.823	V	20.9	-11.9	9.0	29.5	20.5	193	243	2	
3	118.876	V	21.0	-11.0	10.0	33.0	23.0	273	166	2	
4	266.074	V	20.2	-9.2	11.0	35.5	24.5	130	290	2	
5	482.748	V	19.8	-4.5	15.3	35.5	20.2	370	210	2	
6	927.856	٧	19.0	0.9	19.9	35.5	15.6	103	275	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)

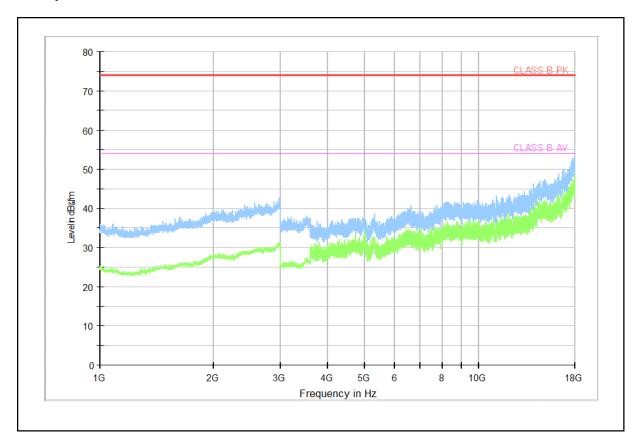
Margin (QP) = Limit – Level (QP)

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

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Mobile Phone: SM-S906E/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)

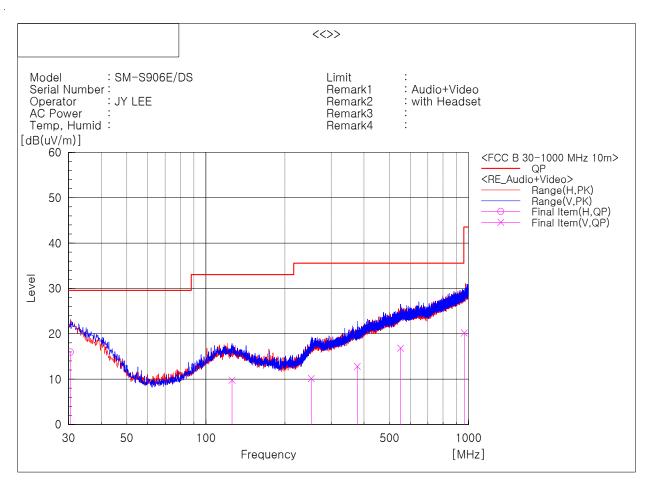
Margin (PK and/or CAV) = Limit – Level (PK and/or CAV)

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

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□ Operating Mode 3

- Frequencies below 1 GHz



Fina	I Result										
No.	Frequency	(P)	Reading QP	c.f	Result QP	Limit QP	Margin QP	Height	Angle	System	Remark
	[MHz]		[dB(uV)]	[dB(1/m)]	[dB(uV/m)]	[dB(uV/m)]	[dB]	[cm]	[deg]		
1	30.485	Н	23.1	-7.1	16.0	29.5	13.5	104	347	1	
2	125.666	V	20.8	-11.0	9.8	33.0	23.2	400	143	2	
3	251.766	V	19.7	-9.6	10.1	35.5	25.4	172	345	2	
4	377.018	V	20.0	-7.2	12.8	35.5	22.7	330	324	2	
5	550.890	V	19.7	-2.9	16.8	35.5	18.7	399	227	2	
6	963.504	V	18.6	1.6	20.2	43.5	23.3	395	98	2	

Note1) Receiving antenna polarization: Horizontal, Vertical

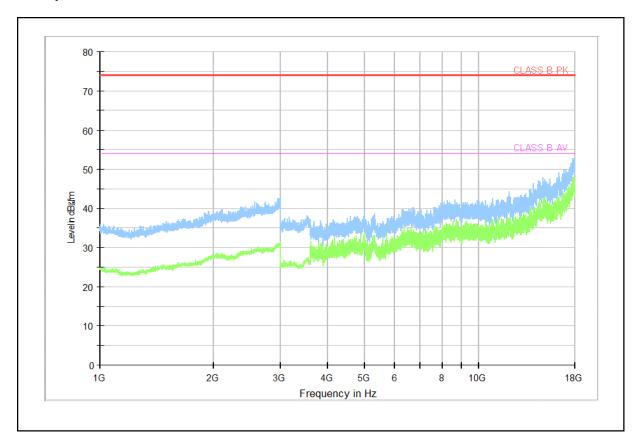
Test Distance: 10 m, Antenna Height: 1 to 4 meters

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

Margin (QP) = Limit – Level (QP)

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

- 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

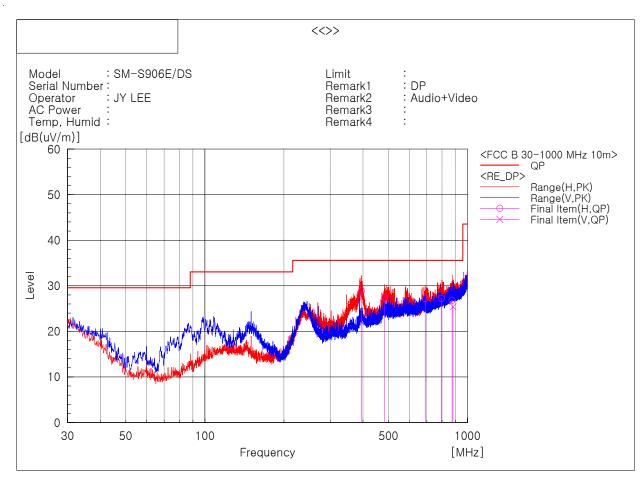
Level (PK and/or CAV) = Reading (PK and/or CAV) + Corr. (Antenna Factor + Cable Loss - Amp. Gain)

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



Fina	ıl Result										
No.	Frequency	(P)	Reading QP	c.f	Result QP	Limit QP	Margin QP	Height	Angle	System	Remark
	[MHz]		[dB(uV)]	[dB(1/m)]	[dB(uV/m)]	[dB(uV/m)]	[dB]	[cm]	[deg]		
1	395.078	Н	37.0	-8.1	28.9	35.5	6.6	180	172	1	
2	483.109	Н	33.4	-6.0	27.4	35.5	8.1	170	157	1	
3	690.670	Н	31.2	-4.0	27.2	35.5	8.3	100	151	1	
4	794.496	Н	29.6	-2.4	27.2	35.5	8.3	119	162	1	
5	873.256	Н	28.1	-1.3	26.8	35.5	8.7	400	243	1	
6	880.303	V	25.0	0.4	25.4	35.5	10.1	277	216	2	

Note1) Receiving antenna polarization: Horizontal, Vertical

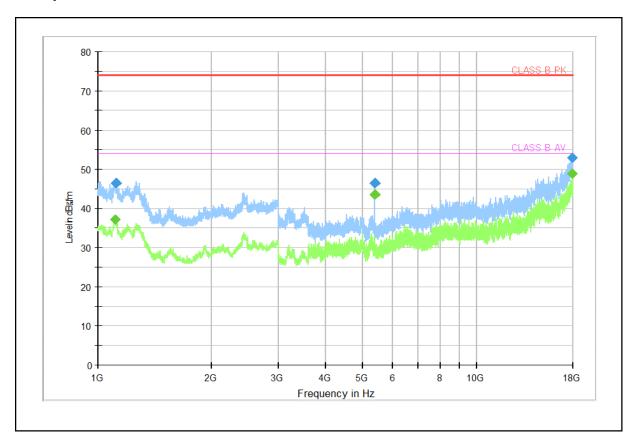
Test Distance: 10 m, Antenna Height: 1 to 4 meters

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

Margin (QP) = Limit – Level (QP)

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

- Frequencies above 1 GHz



Frequency (MHz)	PK (dBµV/m)	CAV (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1 109.500		37.03	54.00	16.97	102.30	V	293.00	6.30
1 113.500	46.49		74.00	27.51	104.80	V	295.00	6.30
5 399.500	46.52		74.00	27.48	106.80	Н	127.00	6.20
5 400.000		43.48	54.00	10.52	108.30	Н	127.00	6.20
17 899.000	52.88		74.00	21.12	101.10	Н	323.00	38.90
17 916.500		48.85	54.00	5.15	103.20	V	290.00	38.70

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

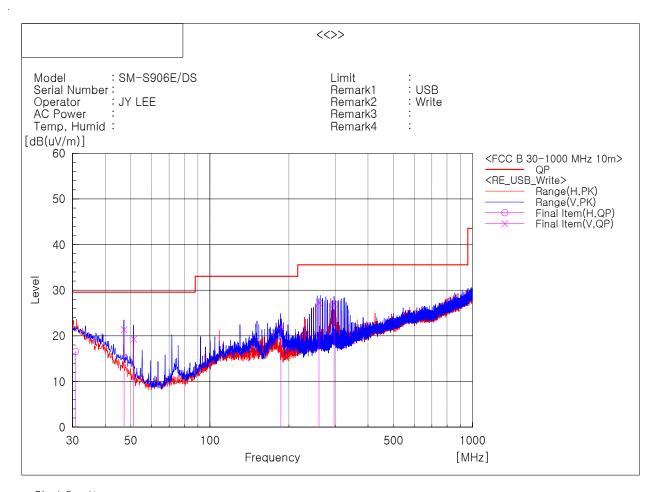
Level (PK and/or CAV) = Reading (PK and/or CAV) + Corr. (Antenna Factor + Cable Loss - Amp. Gain)

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

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

□ Operating Mode 5

- Frequencies below 1 GHz



Fina	ıl Result										
No.	Frequency	(P)	Reading QP	c.f	Result QP	Limit QP	Margin QP	Height	Angle	System	Remark
1	[MHz] 30.817	Н	[dB(uV)] 23.8	[dB(1/m)] -7.2	[dB(uV/m)] 16.6	[dB(uV/m)] 29.5	[dB] 12.9	[cm] 299	[deg] 357	1	
2	47.114	V	35.7	-14.3	21.4	29.5	8.1	114	355	2	
3 4	51.254 186.352	V	35.9 35.9	-16.6 -13.9	19.3 22.0	29.5 33.0	10.2 11.0	100 100	52 304	2 2	
5	260.094 296.973	V	36.2 36.2	-9.0 -9.3	27.2 26.9	35.5 35.5	8.3 8.6	100 100	174 168	2	
O	290.973	٧	30.2	-9.3	20.9	33.3	0.0	100	100	۷	

Note1) Receiving antenna polarization: Horizontal, Vertical

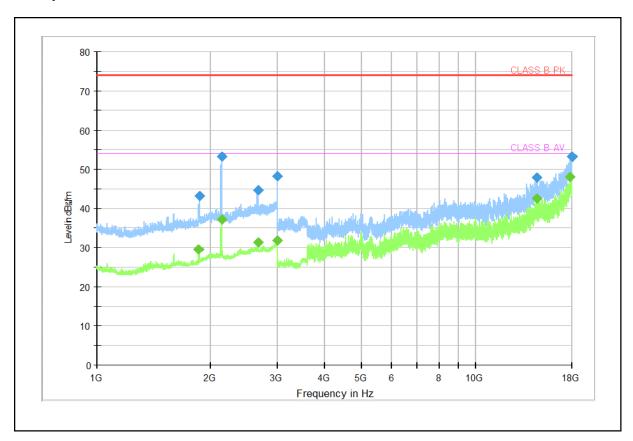
Test Distance: 10 m, Antenna Height: 1 to 4 meters

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)
1 858.500		29.40	54.00	24.60	102.60	V	0.00	10.30
1 864.000	43.15		74.00	30.85	101.80	V	78.00	10.40
2 132.000	53.25		74.00	20.75	103.90	V	22.00	11.90
2 132.000		37.02	54.00	16.98	104.20	V	22.00	11.90
2 660.000		31.27	54.00	22.73	100.00	V	337.00	14.00
2 661.000	44.75		74.00	29.25	100.50	V	342.00	14.00
2 996.000		31.75	54.00	22.25	108.20	V	149.00	15.70
2 996.000	48.25		74.00	25.75	106.10	V	149.00	15.70
14 485.000		42.50	54.00	11.50	105.40	Н	42.00	29.70
14 497.500	47.85		74.00	26.15	104.70	V	323.00	29.70
17 765.000		48.15	54.00	5.85	101.00	V	302.00	38.50
17 959.000	53.14		74.00	20.86	102.50	V	78.00	38.30

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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