Project No.	LBE20210797	Issue No.	0	
	Name of organization	Samsung Electi	onics Co., Ltd.	
Applicant	Address	(Maetan-dong)	129, Samsung-ro, Yeongtong-gu, nggi-do, 16677, Korea	
	Date of receipt	November 29, 2	2021	
	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	
EUT	FCC ID	A3LSMA336M		
	Kind of product	Mobile Phone		
	Model No.	SM-A336M/DSN		
	Variant Model No.	Refer to clause 4.6		
	Manufacturer	Samsung Electronics Vietnam Co., Ltd. Yenphong 1 - I.P Yentrung Commune, Yenphong Dist. Bac Ninh Province, Vietnam		
Applied Sta	andards	47 CFR Part 15, Subpart B, Class B / ANSI C63.4-2014		
Test Period	I	November 29, 2021 ~ December 20, 2021		
Issue date		December 24, 2021		
Test result	: Complied			
	ent under test has found to l e attached test result for mor	•	the applied standards.	
Tested by : Sung-Wook Choi			ed by : Sun-Ho Kim	

Samsung Electronics Co., Ltd., Global CS Center

(Maetan dong) 129, Samsung-ro, Yeongtong-Gu, Suwon-Si,Gyeonggi-Do 16677, Korea

Mobile Phone: SM-A336M/DSN

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1. Report Information

1.1 Revision history

No.	Date of Issue	Revised detailed information
Issue 0	December 24, 2021	There are no revisions and this version is basic test report.

※ 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:

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

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-A336M/DSN	-	SAMSUNG	A3LSMA336M
Battery	EB-BA336ABY	-	SDI	-
Headset	GHSS028-W5	-	BUJEON	-
Data Cable	EP-DR140AWE	-	RF TECH	-
Laptop Computer	Latitude5580	1WYRYM2	Dell	DoC
Laptop Computer	Latitude5580	D3HRYM2	Dell	DoC
Laptop AC Adapter	LA65NM130	5DEA	Dell	DoC
Laptop AC Adapter	LA65NM130	5B3C	Dell	DoC
Mouse	AA-SM7PCPB	CN57BA5903634AD V8JJCD4371	SAMSUNG	DoC
Mouse	SMH-210UB	TAKGA05788Z	SAMSUNG	DoC
Router	DIR-806A	RF0F1D8018454	D-Link	DoC
Router	DIR-806A	RF0F1D8011504	D-Link	DoC
Travel Adapter	EP-TA200	R37N48W2GF2SE3	SoluM	-
Micro SD Card	64GB	-	SAMSUNG	-

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 external 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	USB data communication with PC (from external memory)

4.3 Details of Sampling

Customer selected, single unit.

4.4 Used cable description

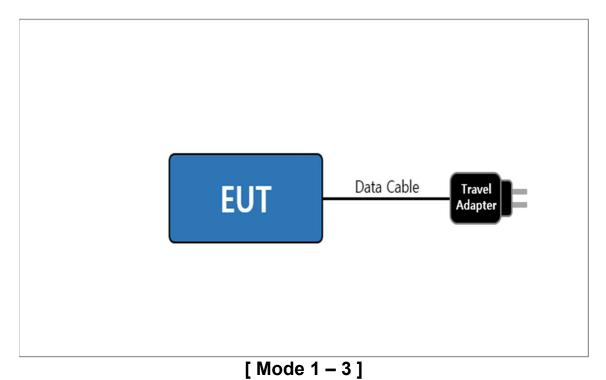
The EUT is configured, installed, arranged and operated in a manner consistent with typical applications. Interface cables/loads/devices are connected to at least one of each type of interface port of the EUT, and where practical, each cable shall be terminated in a device typical of actual usage. The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

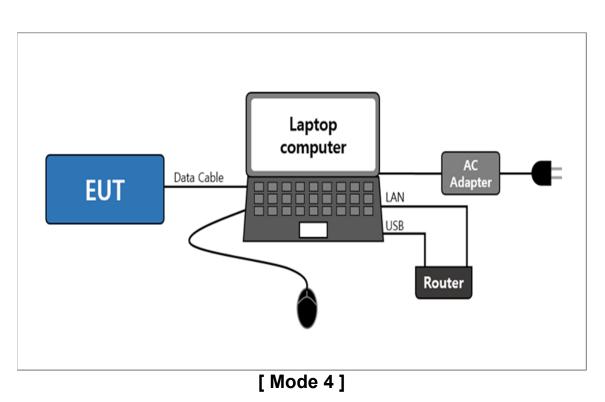
Connected cable	Length [m]	Shielded [Y/N]	Note	
Data Cable	0.8	Y	From EUT to Laptop Computer or Travel Adapter	
Headset	1.2	N	For EUT	
Power	1.8	N	From Laptop Computer to AC Adapter	
Power	1.5	N	For Laptop AC Adapter	
LAN	1.5	N	From Laptop Computer to Router	
USB	0.8	Y	From Laptop Computer to Router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

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4.5 Test arrangement

4.5.1 Conducted Emission



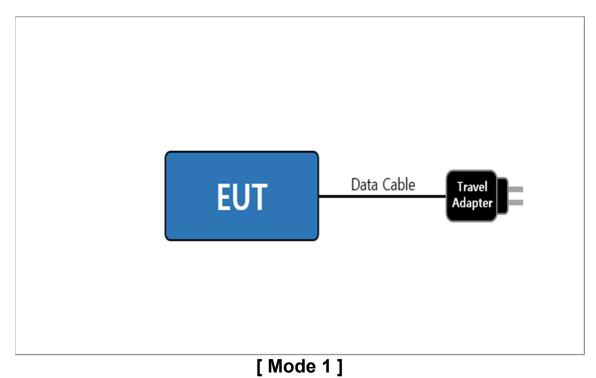


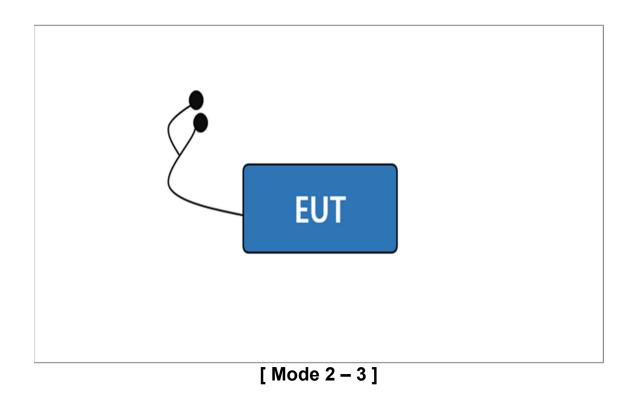
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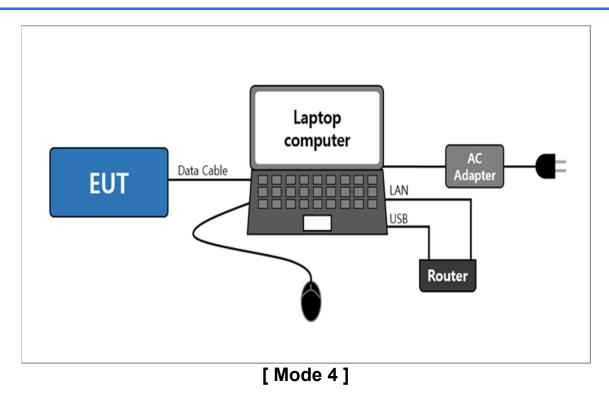
Mobile Phone: SM-A336M/DSN

4.5.2 Radiated Emission





Mobile Phone: SM-A336M/DSN



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 1/2/3/4/5/7/8/12/13/17/20/26/28/66, LTE TDD 38/40/41, 5G NR n1/3/5/7/8/20/28/38/40/41/66/78, and incorporates a Bluetooth, Wi-Fi (802.11 b/g/n/a/ac), Camera, Audio, Video, GNSS, SD Card and NFC.

4.6.1 The variant models

- None

4.7 EUT Frequencies

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

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 for AC conducted emission test 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 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.

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 worstcase data points for each tested configuration. The EUT measured in accordance with the methods described in standards.

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 shal	The lower limit shall apply at the transition frequency.					
NOTE 2 The limit decreases	The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz.					

Limits for Conducted emission at the mains ports of Class B

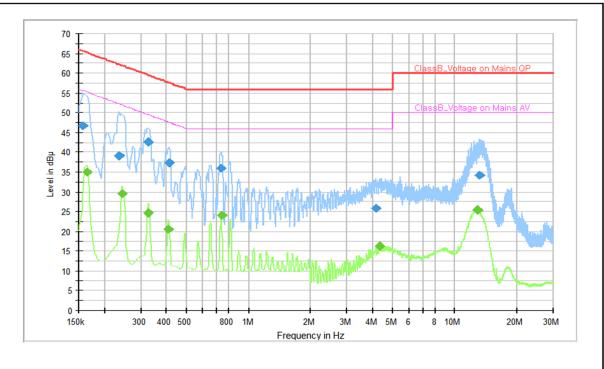
5.1.1 Test instrumentation

EMC	Test Instrument	Model name	Manufacturer	Serial No.	Next Calibration	
No.					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	-	-

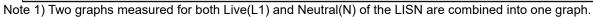
5.1.2 Temperature and humidity condition

Test date	2021-11-29, 2021-12-20	Test engineer	Sung-Wook Choi	
	Ambient temperature	(25.4 ± 0.5) °C	Limit (15.0 to 35.0) ℃	
Climate condition	Relative humidity	(38.1 ± 0.5) % R.H.	Limit (25.0 to 75.0) % R.H.	
	Atmospheric pressure	(102.0 ± 0.5) kPa	Limit (86.0 to 106.0) kPa	
Test place	Shield Room (SR8)			

5.1.3 Test Results



□ Operating Mode 1: AC Mains



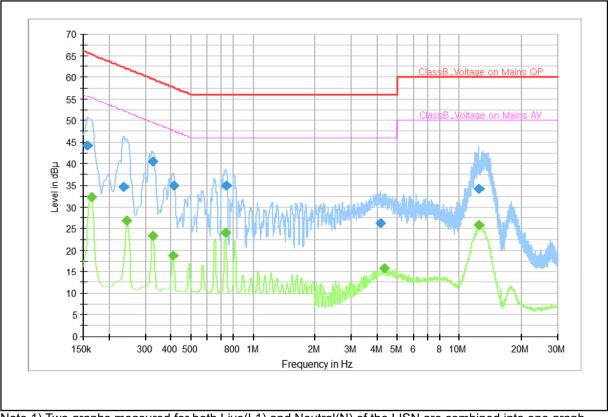
Frequency (MHz)	QP (dBµV)	CAV (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)
0.157	46.8		65.6	18.8	L1	10.0
0.164		35.1	55.3	20.2	L1	10.0
0.236	39.0		62.3	23.2	L1	9.9
0.245		29.6	51.9	22.3	L1	9.8
0.328		24.6	49.5	24.9	L1	10.1
0.328	42.7		59.5	16.9	N	10.0
0.409		20.6	47.7	27.1	N	10.1
0.411	37.3		57.6	20.4	L1	10.2
0.735	36.1		56.0	19.9	N	10.0
0.737		24.1	46.0	21.9	N	10.0
4.153	25.9		56.0	30.1	N	9.9
4.340		16.2	46.0	29.8	N	9.9
12.955		25.4	50.0	24.6	N	10.3
13.157	34.2		60.0	25.8	L1	10.3

QP / CAV fi	nal measurement	results table:
		roound table.

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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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.

Frequency (MHz)	QP (dBµV)	CAV (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)
0.157	44.3		65.6	21.4	N	9.9
0.164		32.3	55.3	23.0	N	9.9
0.236	34.7		62.3	27.6	N	9.8
0.245		26.8	51.9	25.1	N	9.8
0.326		23.3	49.6	26.3	L1	10.1
0.326	40.5		59.6	19.1	N	10.0
0.407		18.8	47.7	28.9	L1	10.2
0.411	34.9		57.6	22.7	L1	10.2
0.735		24.1	46.0	21.9	N	10.0
0.742	34.9		56.0	21.1	N	10.0
4.128	26.3		56.0	29.7	N	9.9
4.349		15.9	46.0	30.1	N	9.9
12.419	34.2		60.0	25.8	L1	10.3
12.422		25.7	50.0	24.3	N	10.3

QP /	/ CAV	final	measurement	results	table:
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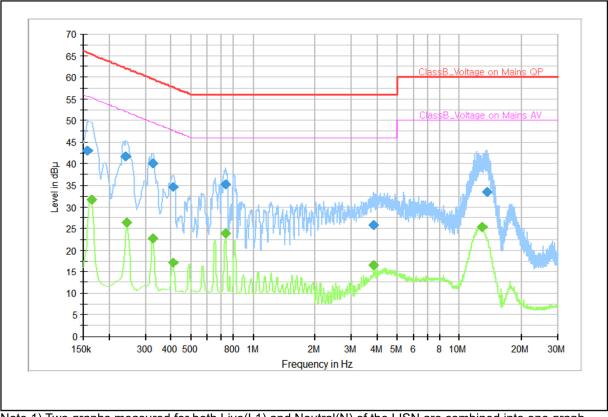
Note 2) Level (QP and/or CAV) = Meter Reading (QP and/or CAV) + Corr. (LISN Insertion Loss + Cable Loss) Margin (QP and/or CAV) = Limit – Level (QP and/or CAV)

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

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Mobile Phone: SM-A336M/DSN

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.

Frequency (MHz)	QP (dBµV)	CAV (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)
0.157	42.9		65.6	22.7	L1	10.0
0.164		31.6	55.3	23.6	L1	10.0
0.240	41.6		62.1	20.5	L1	9.9
0.245		26.3	51.9	25.6	L1	9.8
0.326		22.7	49.6	26.9	L1	10.1
0.326	40.1		59.6	19.5	Ν	10.0
0.407		17.2	47.7	30.6	L1	10.2
0.409	34.6		57.7	23.1	L1	10.2
0.733	35.2		56.0	20.8	N	10.0
0.735		23.9	46.0	22.1	N	10.0
3.840		16.6	46.0	29.4	N	9.9
3.847	25.8		56.0	30.2	Ν	9.9
12.881		25.4	50.0	24.6	N	10.3
13.623	33.4		60.0	26.6	L1	10.3

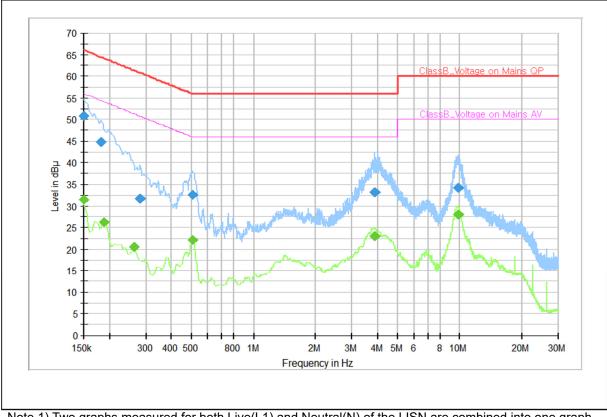
QP / CAV final measurement results table
--

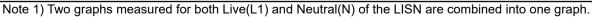
Note 2) Level (QP and/or CAV) = Meter Reading (QP and/or CAV) + Corr. (LISN Insertion Loss + Cable Loss) Margin (QP and/or CAV) = Limit – Level (QP and/or CAV)

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

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□ Operating Mode 4: AC Mains





Frequency (MHz)	QP (dBµV)	CAV (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)
0.150	50.9		66.0	15.1	N	9.8
0.150		31.5	56.0	24.5	L1	9.8
0.182	44.8		64.4	19.7	L1	9.9
0.188		26.2	54.1	27.9	N	9.9
0.263		20.5	51.4	30.8	L1	9.7
0.281	31.6		60.8	29.2	L1	9.8
0.503		22.0	46.0	24.0	L1	10.1
0.508	32.6		56.0	23.4	L1	10.1
3.867		23.1	46.0	22.9	N	9.7
3.887	33.2		56.0	22.8	N	9.7
9.807		28.0	50.0	22.1	L1	9.9
9.861	34.1		60.0	25.9	L1	9.9

QP / CAV final measurement results table:	QP /	CAV	final me	asurement	results tab	le:
---	------	-----	----------	-----------	-------------	-----

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.

5.2.1 Test instrumentation

EMC		Model			Next Calibration		
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	CBL6112D	TESEQ	36997	2022-05-15	24	
E5I-189	6 dB Fixed Attenuator	8491A	Keysight	MY52462295	2022-05-15	24	
E5I-093	Preamplifier	310N	SONOMA	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	ΤΟΥΟ	Ver 8.0.20	-	-	
-	Test software	EMC32	R&S	Ver 9.25.00	-	-	

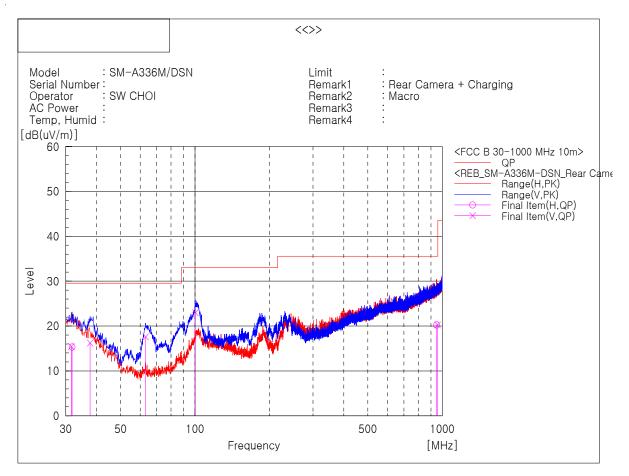
5.2.1 Temperature and humidity condition

Test date	2021-12-13 ~ 2021-12-14	Test engineer	Sung-Wook Choi					
	Ambient temperature	(23.1 ± 0.5) ℃	Limit (15.0 to 35.0) ℃					
Climate condition	Relative humidity	(41.7 ± 0.5) % R.H.	Limit (25.0 to 75.0) % R.H.					
	Atmospheric pressure	(101.8 ± 0.5) kPa	Limit (86.0 to 106.0) kPa					
Test place	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	31.576	V	21.7	-6.2	15.5	29.5	14.0	331	14	2	
2	31.819	Н	23.0	-7.7	15.3	29.5	14.2	104	245	1	
3	37.639	V	24.4	-8.2	16.2	29.5	13.3	100	262	2	
4	63.101	V	35.7	-18.1	17.6	29.5	11.9	204	158	2	
5	100.325	V	36.0	-13.0	23.0	33.0	10.0	126	252	2	
6	947.499	Н	20.6	-0.4	20.2	35.5	15.3	321	332	1	
7	957.805	V	18.7	1.5	20.2	35.5	15.3	363	80	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)

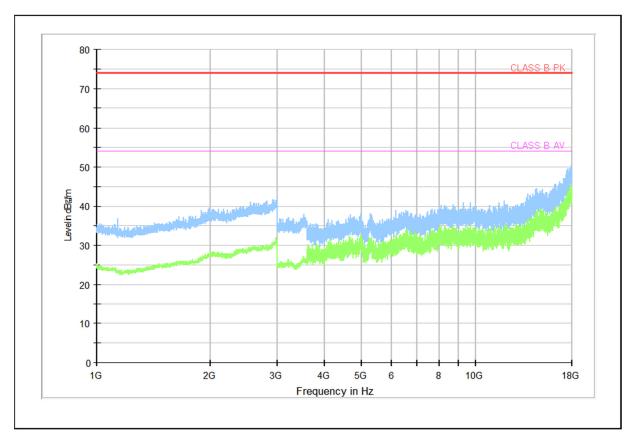
Margin (QP) = Limit – Level (QP)

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

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Mobile Phone: SM-A336M/DSN

- 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

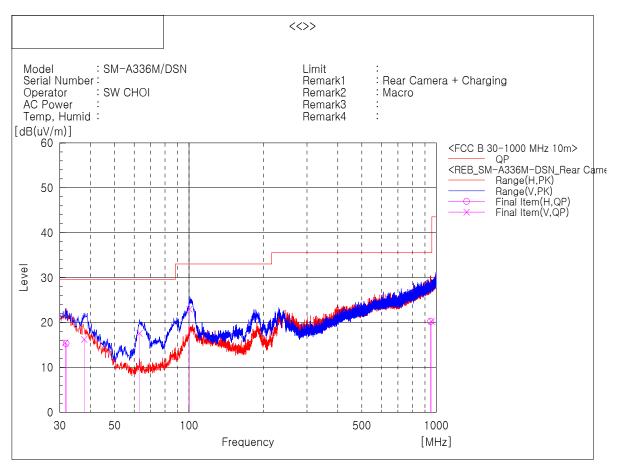
Test Distance : 3 m, Antenna Height : 1 to 4 meters

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



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	31.576	V	21.7	-6.2	15.5	29.5	14.0	331	14	2	
2	31.819	Н	23.0	-7.7	15.3	29.5	14.2	104	245	1	
3	37.639	V	24.4	-8.2	16.2	29.5	13.3	100	262	2	
4	63.101	V	35.7	-18.1	17.6	29.5	11.9	204	158	2	
5	100.325	V	36.0	-13.0	23.0	33.0	10.0	126	252	2	
6	947.499	Н	20.6	-0.4	20.2	35.5	15.3	321	332	1	
7	957.805	V	18.7	1.5	20.2	35.5	15.3	363	80	2	

Note1) Receiving antenna polarization : Horizontal, Vertical

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

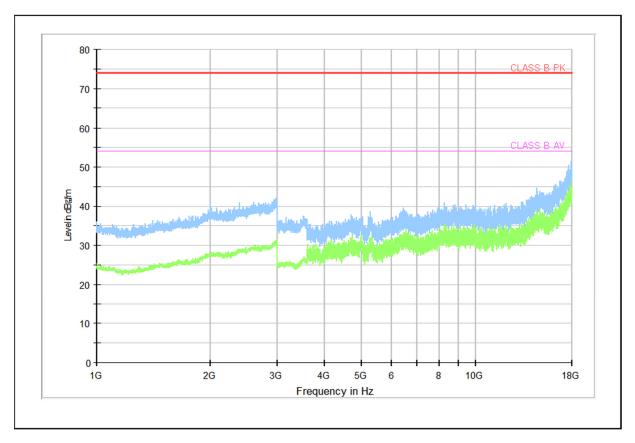
Result (QP) = Reading (QP) + c.f (Antenna Factor + Cable Loss - Amp. Gain)

Margin (QP) = Limit – Level (QP)

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

Mobile Phone: SM-A336M/DSN

- 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

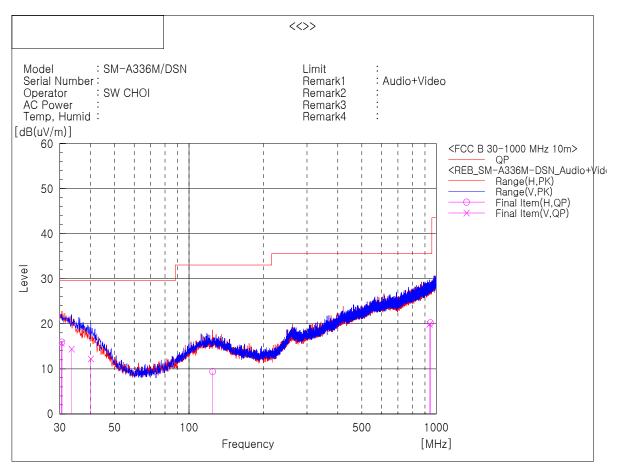
Test Distance : 3 m, Antenna Height : 1 to 4 meters

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



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	30.485	V	21.6	-5.9	15.7	29.5	13.8	166	215	2	
2	30.606	Н	23.0	-7.1	15.9	29.5	13.6	104	156	1	
3	33.516	V	21.1	-6.7	14.4	29.5	15.1	261	174	2	
4	40.064	V	21.6	-9.4	12.2	29.5	17.3	276	292	2	
5	124.575	Н	21.9	-12.5	9.4	33.0	23.6	267	286	1	
6	940.466	V	18.8	1.1	19.9	35.5	15.6	396	2	2	
7	947.377	Н	20.6	-0.4	20.2	35.5	15.3	267	170	1	

Note1) Receiving antenna polarization : Horizontal, Vertical

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

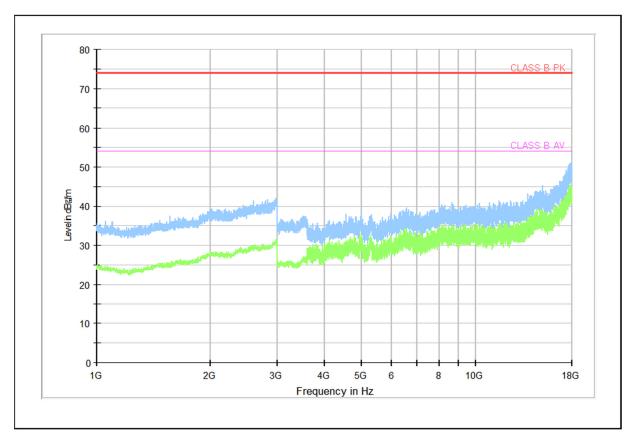
Result (QP) = Reading (QP) + c.f (Antenna Factor + Cable Loss - Amp. Gain)

Margin (QP) = Limit – Level (QP)

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

Mobile Phone: SM-A336M/DSN

- 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

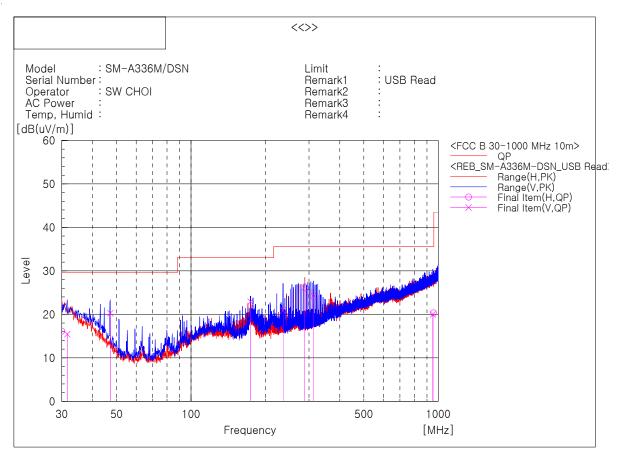
Test Distance : 3 m, Antenna Height : 1 to 4 meters

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 4

- 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	30.000	Н	22.9	-6.8	16.1	29.5	13.4	103	78	1	
2	31.576	V	21.6	-6.2	15.4	29.5	14.1	293	316	2	
3	47.096	V	34.5	-14.2	20.3	29.5	9.2	117	62	2	
4	174.045	V	36.4	-13.5	22.9	33.0	10.1	113	188	2	
5	235.519	V	33.2	-12.3	20.9	35.5	14.6	100	150	2	
6	288.748	Н	37.3	-11.2	26.1	35.5	9.4	289	264	1	
7	313.361	V	33.1	-8.9	24.2	35.5	11.3	100	105	2	
8	951.015	V	18.6	1.4	20.0	35.5	15.5	375	63	2	
9	957.926	Н	20.5	-0.1	20.4	35.5	15.1	327	0	1	

Note1) Receiving antenna polarization : Horizontal, Vertical

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

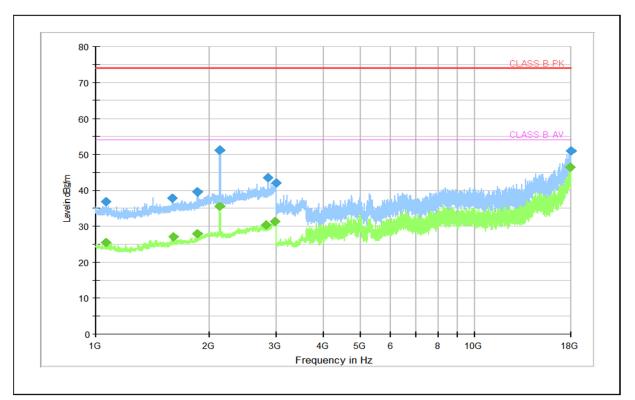
Result (QP) = Reading (QP) + c.f (Antenna Factor + Cable Loss - Amp. Gain)

Margin (QP) = Limit – Level (QP)

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

Mobile Phone: SM-A336M/DSN

- Frequencies above 1 GHz



Frequency (MHz)	PK (dBμV/m)	CAV (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1 062.500		25.51	54.00	28.49	100.70	V	195.00	6.15
1 065.000	36.97		74.00	37.03	101.30	V	359.00	6.16
1 597.000	37.79		74.00	36.21	100.80	V	152.00	9.31
1 598.500		27.00	54.00	27.00	102.10	V	119.00	9.32
1 858.000	39.65		74.00	34.35	101.50	V	359.00	10.33
1 861.500		27.83	54.00	26.17	100.30	V	145.00	10.38
2 127.000		35.46	54.00	18.54	102.00	V	349.00	11.89
2 128.500	51.24		74.00	22.76	101.60	V	21.00	11.90
2 810.500		30.29	54.00	23.71	100.80	V	277.00	14.37
2 844.000	43.64		74.00	30.36	100.30	V	316.00	14.40
2 969.000		31.38	54.00	22.62	101.10	V	316.00	15.45
2 996.500	42.03		74.00	31.97	100.20	Н	269.00	15.73
17 906.500		46.41	54.00	7.59	100.00	V	77.00	38.84
17 992.500	50.95		74.00	23.05	100.90	V	176.00	38.06

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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