	EMC TE	EST REPORT			
Project No.	LBE20220330	Issue No. 0			
	Name of organization	Samsung Electronics Co., Ltd.			
Applicant	Address	(Maetan-dong) 129, Samsung-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16677, Korea			
	Date of receipt	June 9, 2022			
	Type of device	 All other receivers subject to Part 15 Class B personal computers and peripherals Other Class B digital devices and peripherals FM Broadcast Receiver 			
	Equipment authorization	Certification			
	FCC ID	A3LSMA236BN			
EUT	Kind of product	Mobile Phone			
	Model No.	SM-A236B/DSN			
	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	ndards	47 CFR Part 15, Subpart B, Class B / ANSI C63.4-2014			
Test Period		June 10, 2022 ~ June 16, 2022			
Issue date		June 17, 2022			
Test result : Complied					
The equipment under test has found to to (Refer to the attached test result for mor		be compliant with the applied standards. re detail.)			
Tested by	: Seon-Tai Park	Reviewed by : Chang-Eun Park C. E. Park			

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

Mobile Phone: SM-A236B/DSN

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1. Report Information

1.1 Revision history

No.	Date of Issue	Revised detailed information
Issue 0	June 17, 2022	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:

Applied	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-A236B/DSN	-	SAMSUNG	A3LSMA236BN	
Battery	EB-BM526ABY	-	SDI	-	
Headset	EHS64AV	-	CRESYN	-	
Data Cable	EP-DN980	-	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-TA800	R37R5DR5S38SE3	Solu-M	-	
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)
3	Video + Audio playback from internal memory
4	USB data communication with PC (from external memory)

4.3 Details of Sampling

Customer selected, single unit.

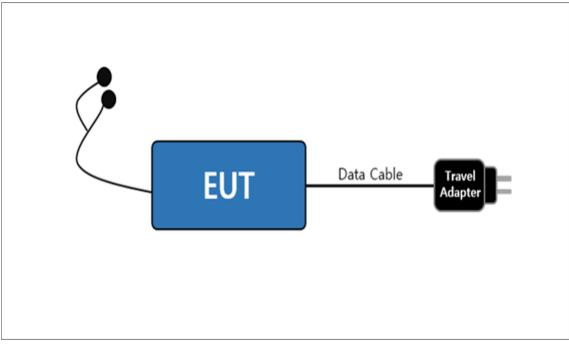
4.4 Used cable description

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:

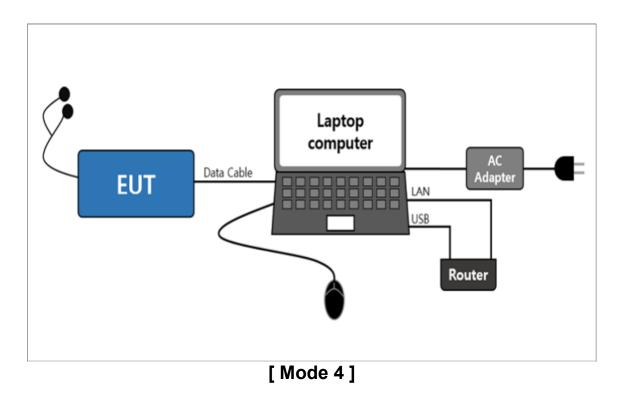
Connected cable	Length [m]	Shielded [Y/N]	Note	
Data Cable	1.0	Y	From EUT to Laptop Computer or Travel Adapter	
Headset	1.2	N	For EUT	
Power	1.8	N	From Laptop Computer to AC Adapter	
Power 1.5 N		N	For Laptop AC Adapter	
LAN	1.5	N	From Laptop Computer to Router	
USB	0.8	Y	From Laptop Computer to Router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

4.5 Test arrangement

4.5.1 Conducted Emission



[Mode 1 – 3]

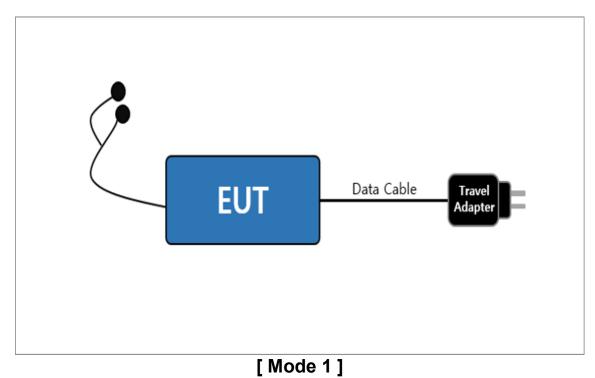


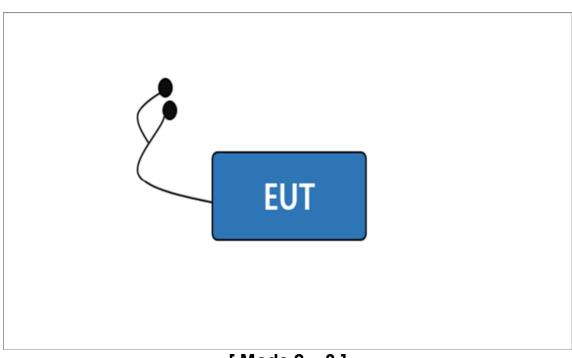
This report must not be reproduced, except in full, without written permission from Global CS Center. Form No.: SRA-TRF-46/11

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Mobile Phone: SM-A236B/DSN

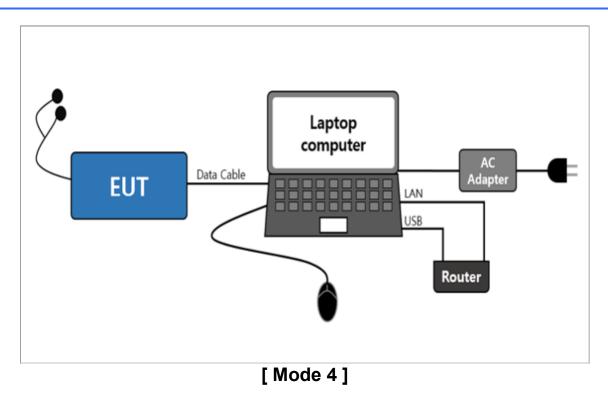
4.5.2 Radiated Emission





[Mode 2 – 3]

Mobile Phone: SM-A236B/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 1/2/3/4/5/7/8/12/17/20/26/28/32/66, LTE TDD 38/40/41, 5G NR n1/3/5/7/8/20/28/38/40/41/77/78, 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

- SM-A236E/DSN, SM-A236E/DS, SM-A236E/N

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(1 kHz sound) 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	2.83 dB	
Radiated Emission	Horizontal	4.15 dB	
(Below 1 GHz)	Vertical	4.51 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	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.						

Limits for Conducted emission at the mains ports of Class B

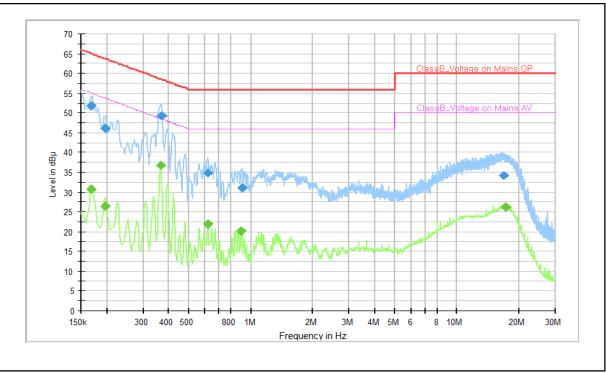
5.1.1 Test instrumentation

EMC	Test Instrument	Model name	Manufacturer	Serial No.	Next Calibration	
No.					Date	Interval (Month)
E5I-007	LTE Communicator	CMW500	R&S	132729	2023-03-30	12
E5I-127	Two-Line V-Network	ENV216	R&S	102061	2023-01-17	12
E5I-016	EMI Test Receiver	ESU8	R&S	100482	2023-06-10	12
-	Test software	EMC32	R&S	Ver 10.60.20	-	-

5.1.2 Temperature and humidity condition

Test date	2022-06-16	Seon-Tai Park			
	Ambient temperature	(22.8 ± 0.5) ℃	Limit (15.0 to 35.0) ℃		
Climate condition	Humidity	(39.5 ± 0.5) % R.H.	Limit (25.0 to 75.0) % R.H.		
	Atmospheric pressure	(100.6 ± 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

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

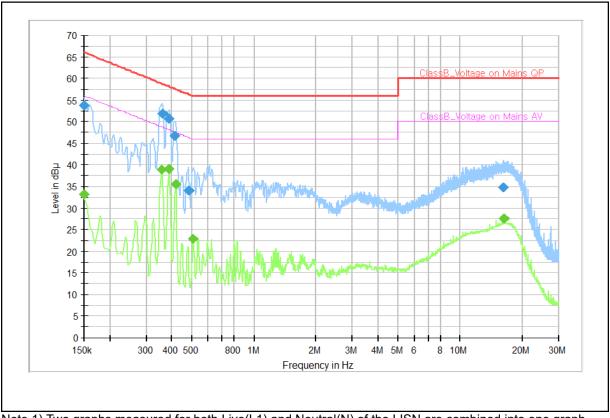
Frequency (MHz)	QP (dBµV)	CAV (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)
0.168		30.7	55.1	24.3	L1	10.3
0.168	51.8		65.1	13.2	L1	10.3
0.197		26.4	53.7	27.4	N	10.0
0.197	46.1		63.7	17.6	L1	10.1
0.366		36.8	48.6	11.8	L1	10.2
0.368	49.3		58.5	9.3	L1	10.2
0.616	34.8		56.0	21.2	L1	10.2
0.620		22.0	46.0	24.0	L1	10.2
0.899		20.1	46.0	25.9	L1	10.0
0.906	31.0		56.0	25.0	L1	10.0
16.987	34.3		60.0	25.7	L1	10.4
17.311		26.2	50.0	23.8	L1	10.4

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			
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Frequency (MHz)	QP (dBµV)	CAV (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)
0.150		33.2	56.0	22.8	N	9.9
0.150	53.8		66.0	12.2	L1	9.9
0.357		38.9	48.8	9.9	L1	10.1
0.359	51.8		58.7	6.9	L1	10.1
0.386	50.7		58.1	7.5	L1	10.2
0.386		39.2	48.1	8.9	L1	10.2
0.413	46.6		57.6	10.9	L1	10.2
0.416		35.6	47.5	12.0	L1	10.2
0.481	34.1		56.3	22.2	L1	10.2
0.508		22.9	46.0	23.1	L1	10.2
16.154	34.8		60.0	25.2	L1	10.4
16.348		27.5	50.0	22.5	N	10.6

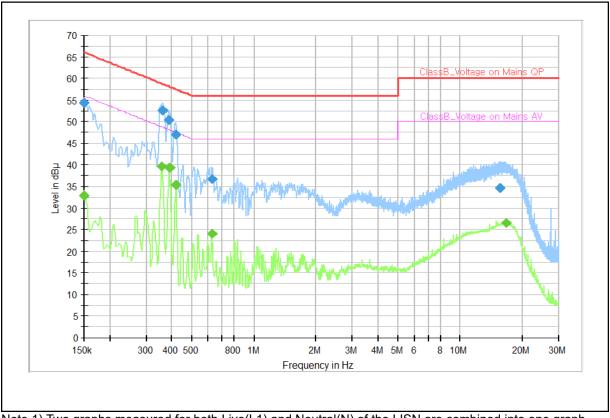
	QP /	CAV fina	measurement results table:
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Note 2) Level (QP and/or CAV) = Meter Reading (QP and/or CAV) + Corr. (LISN Insertion Loss + Cable Loss) Margin (QP and/or CAV) = Limit – Level (QP and/or CAV)

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

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Operating Mode 3: AC Mains



Note 1) Two graphs measured for both			
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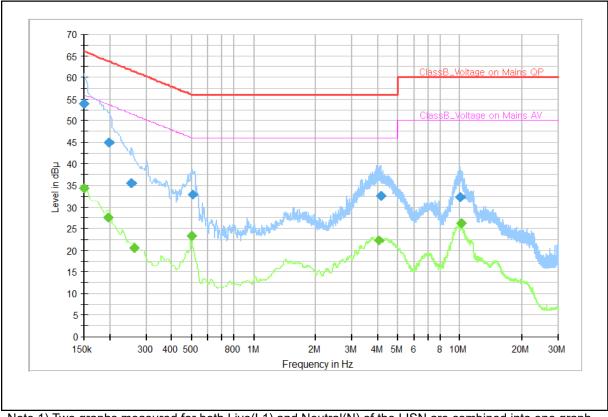
Frequency (MHz)	QP (dBµV)	CAV (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)
0.150		32.8	56.0	23.2	L1	9.9
0.150	54.3		66.0	11.7	L1	9.9
0.357		39.7	48.8	9.1	L1	10.1
0.362	52.5		58.7	6.2	L1	10.1
0.386	50.5		58.1	7.7	L1	10.2
0.389		39.2	48.1	8.9	L1	10.2
0.416	47.0		57.5	10.5	L1	10.2
0.418		35.4	47.5	12.1	L1	10.2
0.627		24.0	46.0	22.0	L1	10.2
0.629	36.7		56.0	19.3	L1	10.2
15.545	34.6		60.0	25.4	L1	10.4
16.728		26.6	50.0	23.4	L1	10.4

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



Note 1) Two graphs measured for both Live(L1) and Neutral(N) of the LISN are combined	into one graph.
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Frequency (MHz)	QP (dBµV)	CAV (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)
0.150	53.9		66.0	12.1	N	9.9
0.150		34.5	56.0	21.5	L1	9.9
0.197		27.6	53.7	26.1	Ν	10.0
0.200	45.0		63.6	18.7	N	10.0
0.256	35.7		61.6	25.9	N	9.8
0.263		20.6	51.4	30.7	N	9.8
0.501		23.2	46.0	22.8	L1	10.2
0.503	32.9		56.0	23.1	L1	10.2
4.054		22.4	46.0	23.6	L1	10.0
4.137	32.7		56.0	23.3	L1	10.0
10.079	32.3		60.0	27.7	L1	10.2
10.136		26.3	50.0	23.7	L1	10.2

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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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 Seria		Date	Interval (Month)	
E5I-021	EMI Test Receiver	ESU40	R&S	100376	2023-01-28	12	
E5I-020	EMI Test Receiver	ESU40	R&S	100375	2022-09-23	12	
E5I-069	BiLog Antenna	CBL6112D	TESEQ	35382	2023-08-09	24	
E5I-138	6 dB Fixed Attenuator	8491A	Keysight	MY52462285	2023-08-09	24	
E5I-071	BiLog Antenna CBL6112D 7		TESEQ	35384	2023-08-09	24	
E5I-136	6 dB Fixed Attenuator	8491A	Keysight	MY52462355	2023-08-09	24	
E5I-075	Preamplifier	310N	SONOMA	332018	2023-05-27	12	
E5I-076	Preamplifier	310N	SONOMA	332019	2023-05-27	12	
E5I-035	Horn Antenna	HF907	R&S	100506	2022-09-28	12	
E5I-039	Signal Conditioning Unit	SCU-18	R&S	10211	2023-04-18	12	
E5I-243	WideBand Horn Antenna	QMS-00880	STEATITE	25187	2022-11-17	12	
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	-	-	

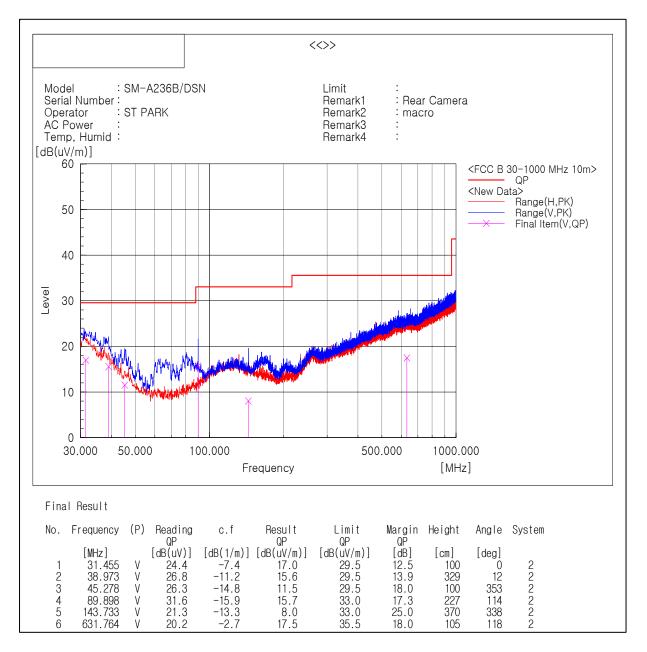
5.2.1 Temperature and humidity condition

Test date	2022-06-10, 2022-06-13	Test engineer	Seon-Tai Park				
	Ambient temperature	(23.6 ± 0.5) ℃	Limit (15.0 to 35.0) ℃				
Climate condition	Humidity	(54.2 ± 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	Semi-Anechoic Chamber (SAC5)						

5.2.3 Test Results

□ Operating Mode 1

- 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)

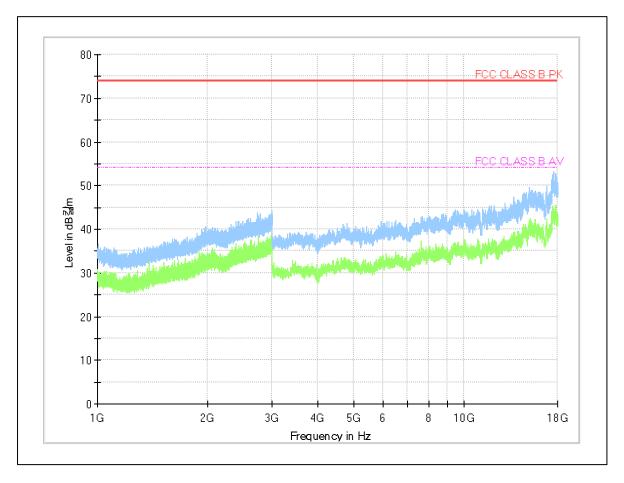
Margin (QP) = Limit – Level (QP)

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

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Mobile Phone: SM-A236B/DSN

- Frequencies above 1 GHz



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

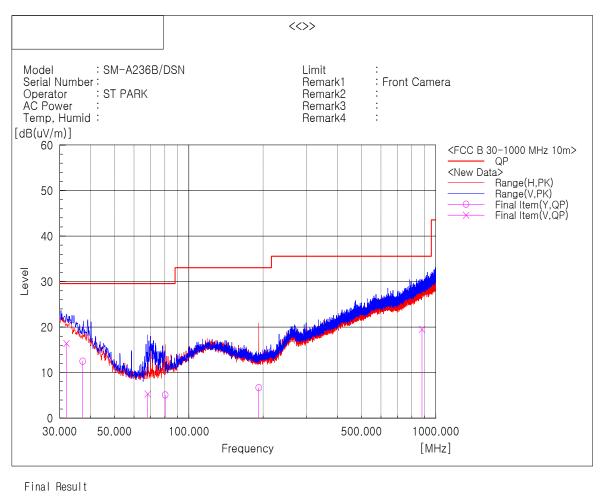
Note 2) Receiving antenna polarization : Horizontal, Vertical

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



No.	Frequency	(P)	Reading QP	c.f	Result QP	Limit QP	Margin QP	Height	Angle	System
	[MHz]		[dB(uV)]	[dB(1/m)]	[dB(uV/m)]	[dB(uV/m)]	[dB]	[cm]	[deg]	
1	31.940	V	24.0	-7.6	16.4	29.5	13.1	270	135	2
2	37.154	Н	23.2	-10.7	12.5	29.5	17.0	253	20	1
3	68.194	V	23.9	-18.6	5.3	29.5	24.2	230	254	2
4	80.198	Н	22.9	-17.8	5.1	29.5	24.4	396	13	1
5	191.990	Н	22.1	-15.4	6.7	33.0	26.3	322	171	1
6	879.477	V	19.4	0.1	19.5	35.5	16.0	398	319	2

Note1) Receiving antenna polarization : Horizontal, Vertical

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

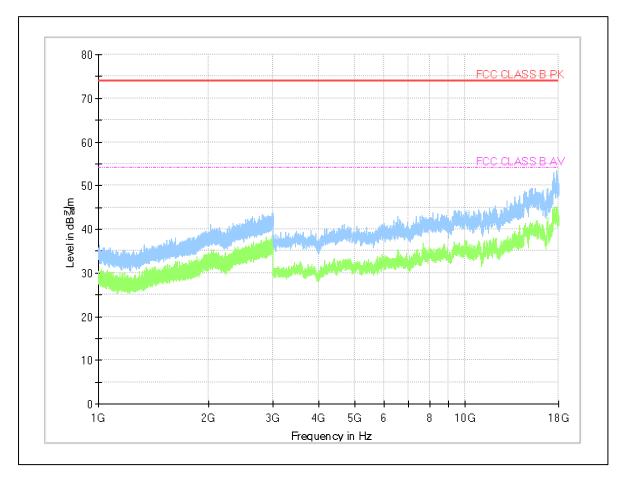
Result (QP) = Reading (QP) + c.f (Antenna Factor + Cable Loss - Amp. Gain)

Margin (QP) = Limit – Level (QP)

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

Mobile Phone: SM-A236B/DSN

- Frequencies above 1 GHz



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

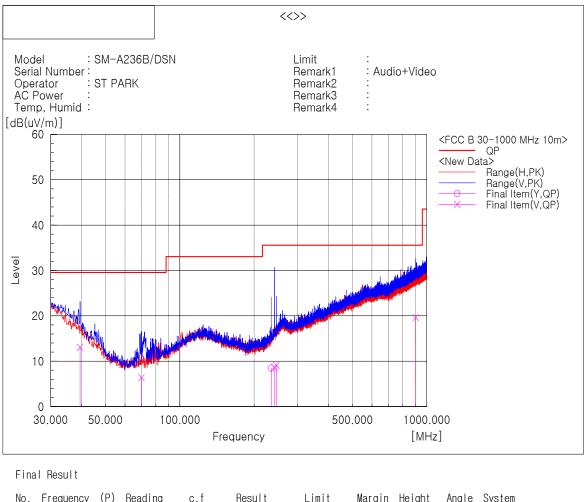
Note 2) Receiving antenna polarization : Horizontal, Vertical

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



No.	Frequency	(P)	Reading	c.t	Result	Limit	Margin	Height	Angle	System
			QP		QP	QP	QP			
	[MHz]		[dB(uV)]	[dB(1/m)]	[dB(uV/m)]	[dB(uV/m)]	[dB]	[cm]	[deg]	
1	39.458	V	24.5	-11.5	13.0	29.5	16.5	102	235	2
2	69.891	V	25.0	-18.6	6.4	29.5	23.1	183	240	2
3	234.549	Н	22.1	-13.6	8.5	35.5	27.0	387	310	1
4	241.460	V	20.8	-12.1	8.7	35.5	26.8	103	317	2
5	245.825	V	20.4	-11.3	9.1	35.5	26.4	283	338	2
6	902.636	V	19.3	0.3	19.6	35.5	15.9	230	0	2

Note1) Receiving antenna polarization : Horizontal, Vertical

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

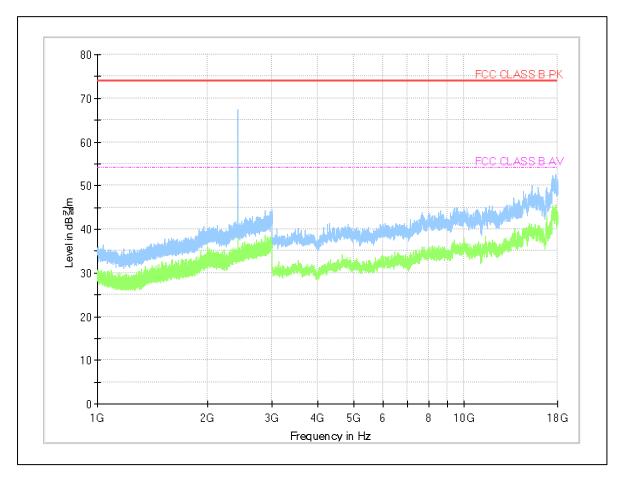
Result (QP) = Reading (QP) + c.f (Antenna Factor + Cable Loss - Amp. Gain)

Margin (QP) = Limit – Level (QP)

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

Mobile Phone: SM-A236B/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

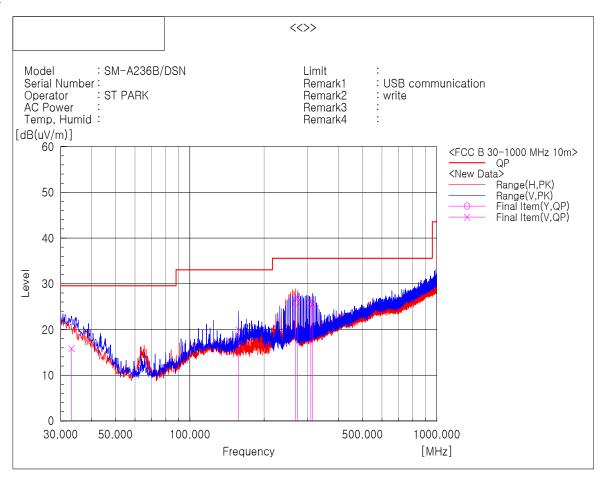
Note 3) Radiated emissions (Tx / Rx frequency) from the transceiver shall be ignored.

- Data transmission in the 2.4 GHz ISM band (Bluetooth/Wi-Fi)

: Operating frequencies (2 400 ~ 2 483.5) MHz

Operating Mode 4

- Frequencies below 1 GHz



Final Result

No.	Frequency	(P)	Reading QP	c.f	Result QP	Limit QP	Margin QP	Height	Angle	System
	[MHz]		[dB(uV)]	[dB(1/m)]	[dB(uV/m)]	[dB(uV/m)]	[dB]	[cm]	[deg]	
1	33.153	V	24.0	-8.2	15.8	29.5	13.7	100	250	2
2	157.676	V	33.9	-14.0	19.9	33.0	13.1	101	157	2
3	268.256	Н	36.4	-10.5	25.9	35.5	9.6	320	87	1
4	272.379	V	37.2	-10.2	27.0	35.5	8.5	100	166	2
5	309.239	Н	35.9	-10.1	25.8	35.5	9.7	308	266	1
6	313.361	V	34.9	-9.5	25.4	35.5	10.1	100	183	2

Note1) Receiving antenna polarization : Horizontal, Vertical

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

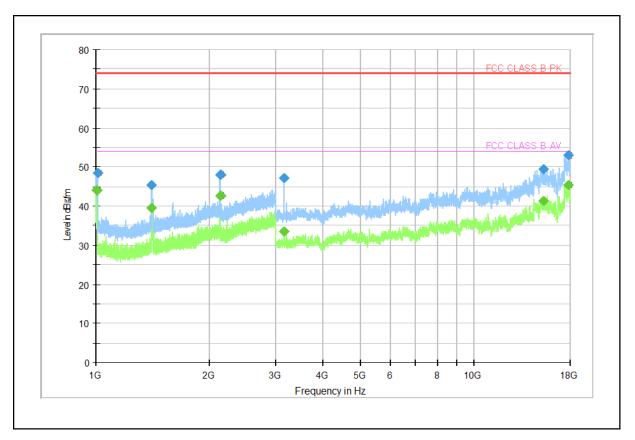
Result (QP) = Reading (QP) + c.f (Antenna Factor + Cable Loss - Amp. Gain)

Margin (QP) = Limit – Level (QP)

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

Mobile Phone: SM-A236B/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)
1 008.200		44.03	54.00	9.97	104.00	Н	62.00	7.56
1 009.400	48.39		74.00	25.61	101.60	Н	55.00	7.55
1 404.400		39.61	54.00	14.39	103.50	Н	76.00	9.24
1 404.400	45.31		74.00	28.69	112.80	Н	76.00	9.24
2 130.400		42.75	54.00	11.25	100.00	V	28.00	13.80
2 130.400	48.09		74.00	25.91	119.20	V	28.00	13.80
3 147.000		33.47	54.00	20.53	107.30	V	128.00	1.92
3 147.000	47.23		74.00	26.77	101.00	V	128.00	1.92
15 246.000	49.32		74.00	24.68	125.20	V	29.00	31.01
15 301.500		41.42	54.00	12.58	110.60	V	138.00	31.40
17 749.500		45.42	54.00	8.58	105.90	Н	0.00	37.43
17 802.000	52.97		74.00	21.03	101.40	V	138.00	38.38

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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