EMC TEST REPORT					
Project No.	LBE20220165	Issue		0	
-	Name of organization	Samsur	ng Electi	onics Co., Ltd.	
Applicant	Address			129, Samsung-ro, Yeongtong-gu, nggi-do, 16677, Korea	
	Date of receipt	April 6,	April 6, 2022		
	Type of device	ClasOthe	s B pers er Class	eivers subject to Part 15 onal computers and peripherals B digital devices and peripherals st Receiver	
	Equipment authorization	Cert	ification	□ Supplier's Declaration of Conformity	
	FCC ID	A3LSM	G736B		
EUT	Kind of product	Mobile	Phone		
	Model No.	SM-G736B/DS			
	Variant Model No.	Refer to clause 4.6			
	Manufacturer	Samsung Electronics Vietnam THAI NGUYEN Co., Lto Yen Binh Industrial Zone Pho Ten Dist., Thai Nguyen Province, Vietnam			
Applied Sta	Indards	47 CFR	R Part 15	, Subpart B, Class B / ANSI C63.4-2014	
Test Period		April 6, 2022 ~ April 25, 2022			
Issue date		May 3, 2022			
Test result :	: Complied	Europen (1997), in a sub-section of the section of			
	ent under test has found to l attached test result for mor			the applied standards.	
Tested by	: Eun-Kyung Oh		Reviewe	ed by : Chang-Eun Park	
	C-E-Park				
The test results in this report only apply to the except in full, without written permission from					
(Maeta	Samsung Electronics Co., Ltd., Global CS Center (Maetan dong) 129, Samsung-ro, Yeongtong-Gu, Suwon-Si,Gyeonggi-Do 16677, Korea				

Mobile Phone: SM-G736B/DS

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1. Report Information

1.1 Revision history

No.	Date of Issue	Revised detailed information
Issue 0	May 3, 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:

Арр	plied	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.

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-G736B/DS	-	SAMSUNG	A3LSMG736B
Battery	EB0BG736BBE	-	ALT	-
Headset	EHS64AVFWE	-	CRESYN	-
Data Cable	EP-DN980	-	CRESYN	-
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	CN57BA5903634ADV 8JJCD4371	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	R37R68G80V8SE3	SoluM	-
DP Monitor	27DU88	711NTQD8H004	LG	DoC
DP Monitor Power Supply	LCAP31	EH8NN629490055062	LG	DoC
DP Cable	TCDPCB-3M	-	COMSMART	-
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	Video + Audio playback from internal memory + Display out (w/ USB to Direct DP cable)
5	USB data communication with PC (from external memory)

4.3 Details of Sampling

Customer selected, single unit.

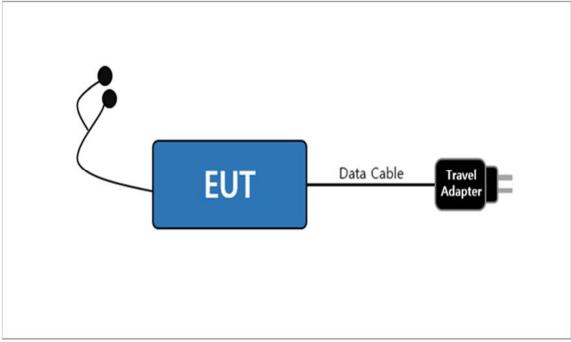
4.4 Used cable description

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:

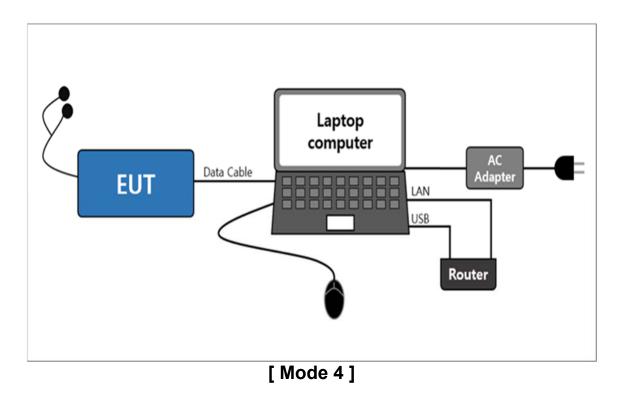
Connected cable	Length [m]	Shielded [Y/N]	Note	
Data Cable	1.0	Y	From EUT to Laptop Computer or Travel Adapter	
Headset	1.2	N	For EUT	
Power	1.8	N	From Laptop Computer to AC Adapter	
Power	1.5	N	For Laptop AC Adapter	
LAN	1.5	N	From Laptop Computer to Router	
USB	0.8	Y	From Laptop Computer to Router for DC Power	
USB	1.8	Y	From Laptop Computer to Mouse	
DP Cable	3.0	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]

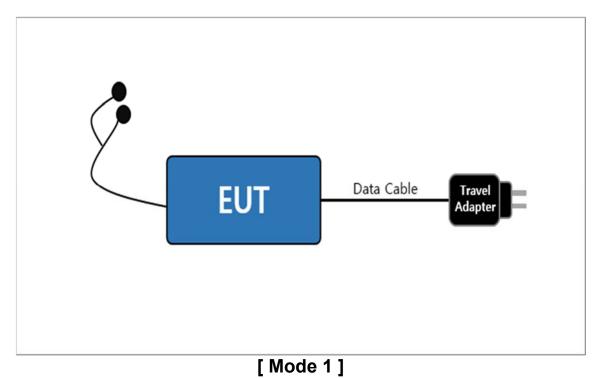


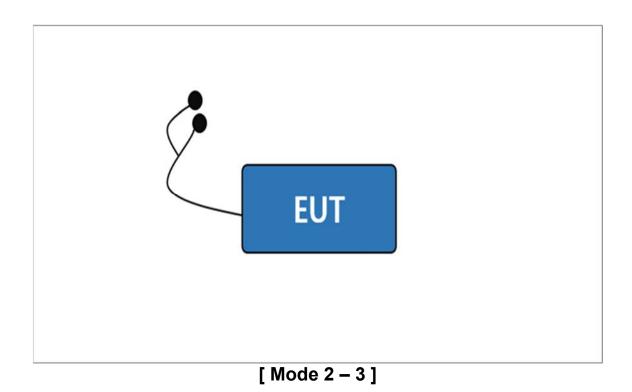
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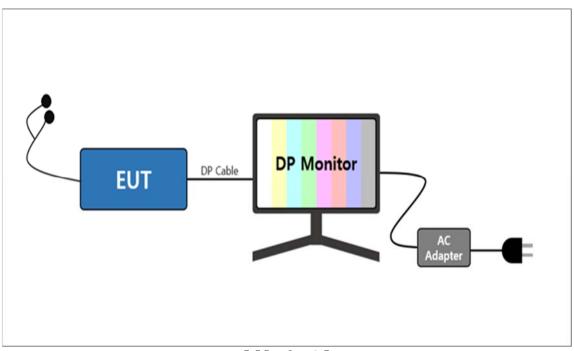
Mobile Phone: SM-G736B/DS

4.5.2 Radiated Emission

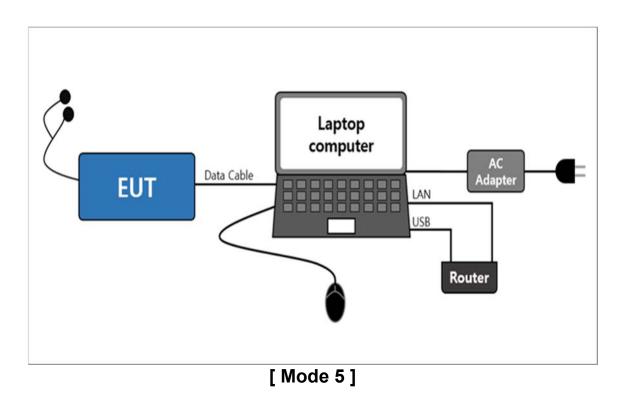




Mobile Phone: SM-G736B/DS







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 38/39/40/41, 5G NR n1/3/5/7/8/20/28/38/40/41/78, and incorporates a Bluetooth, Wi-Fi (802.11 b/g/n/a/ac/ax), Camera, Audio, GNSS, DP, SD Card and NFC.

4.6.1 The variant models

- SM-G736B

4.7 EUT Frequencies

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

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 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		2.83 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 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

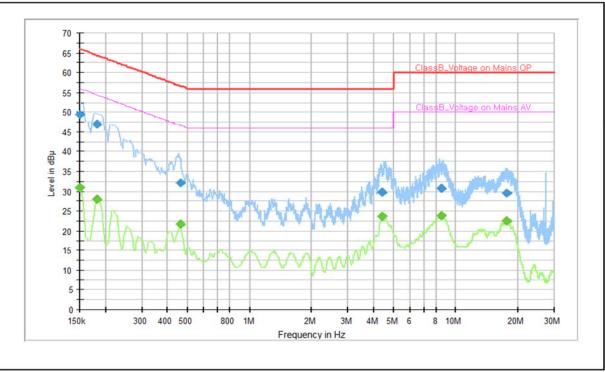
5.1.1 Test instrumentation

EMC	Test Instrument	Model name	Manufacturer	Serial No.	Next Calibration	
No.					Date	Interval (Month)
E5I-006	LTE Communicator	CMW500	R&S	132728	2023-04-12	12
E5I-127	Two-Line V-Network	ENV216	R&S	102061	2023-01-17	12
E5I-016	EMI Test Receiver	ESU8	R&S	100482	2022-06-03	12
-	Test software	EMC32	R&S	Ver 10.60.20	-	-

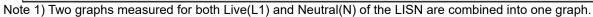
5.1.2 Temperature and humidity condition

Test date	2022-04-25	Test engineer	Eun-Kyung Oh	
	Ambient temperature	(22.7 ± 0.5) ℃	Limit (15.0 to 35.0) ℃	
Climate condition	Humidity	(38.5 ± 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



Frequency (MHz)	QP (dBµV)	CAV (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)
0.150		30.8	56.0	25.2	L1	9.9
0.150	49.4		66.0	16.6	L1	9.9
0.182		28.0	54.4	26.5	L1	10.2
0.182	46.9		64.4	17.6	L1	10.2
0.461		21.6	46.7	25.1	L1	10.2
0.461	32.1		56.7	24.6	L1	10.2
4.394		23.6	46.0	22.4	L1	10.0
4.394	29.7		56.0	26.3	L1	10.0
8.493		23.9	50.0	26.1	L1	10.1
8.493	30.7		60.0	29.3	L1	10.1
17.592		22.4	50.0	27.6	L1	10.4
17.592	29.5		60.0	30.5	L1	10.4

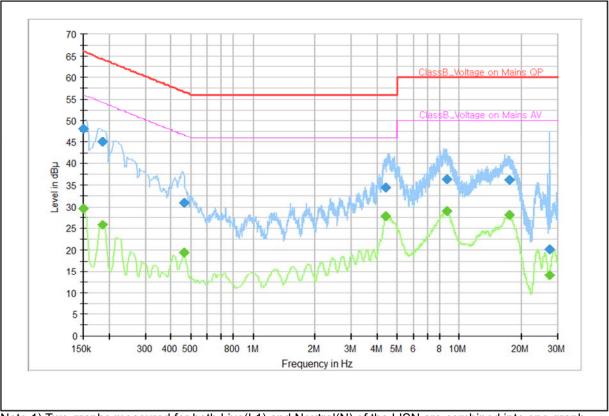
QP / CAV II	inal measurement	results table:

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 2: AC Mains



Note 1) Two graphs measured for b	oth Live(L1) and Neutral(N) of the	LISN are combined into one graph.
, , ,		0 1

Frequency (MHz)	QP (dBµV)	CAV (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)
0.150		29.5	56.0	26.5	L1	9.9
0.150	48.2		66.0	17.8	L1	9.9
0.186		25.8	54.2	28.4	L1	10.2
0.186	45.0		64.2	19.2	L1	10.2
0.463		19.4	46.6	27.2	L1	10.2
0.463	31.0		56.6	25.7	L1	10.2
4.405		27.8	46.0	18.2	L1	10.0
4.405	34.4		56.0	21.6	L1	10.0
8.727		28.9	50.0	21.1	L1	10.1
8.727	36.4		60.0	23.6	L1	10.1
17.466		28.2	50.0	21.8	L1	10.4
17.466	36.2		60.0	23.8	L1	10.4
27.429		14.0	50.0	36.0	N	10.8
27.429	20.2		60.0	39.8	N	10.8

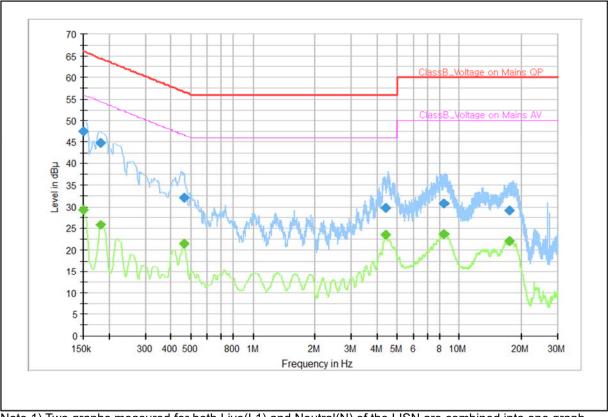
QP / CA	AV final n	neasurement	results	table:
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Note 2) Level (QP and/or CAV) = Meter Reading (QP and/or CAV) + Corr. (LISN Insertion Loss + Cable Loss) Margin (QP and/or CAV) = Limit – Level (QP and/or CAV)

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 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)
0.150		29.3	56.0	26.7	L1	9.9
0.150	47.6		66.0	18.4	L1	9.9
0.182		25.9	54.4	28.5	L1	10.2
0.182	44.7		64.4	19.7	L1	10.2
0.461		21.6	46.7	25.1	L1	10.2
0.461	32.0		56.7	24.6	L1	10.2
4.376		23.4	46.0	22.6	L1	10.0
4.376	29.6		56.0	26.4	L1	10.0
8.414		23.6	50.0	26.4	L1	10.1
8.414	30.7		60.0	29.3	L1	10.1
17.536		22.1	50.0	27.9	L1	10.4
17.536	29.2		60.0	30.8	L1	10.4

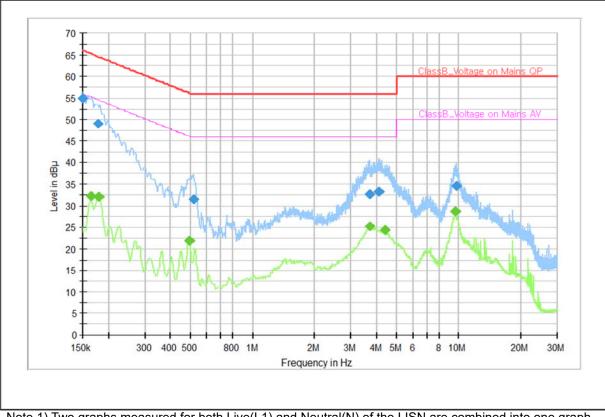
QP /	CAV fina	l measurement	results table:
GCI /	0/10/10/10	a moaoaromon	roound table.

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 4: AC Mains



Frequency (MHz)	QP (dBµV)	CAV (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)
0.150	55.0		66.0	11.0	L1	9.8
0.164		32.2	55.3	23.1	N	10.0
0.177	49.0		64.6	15.6	N	10.1
0.179		32.0	54.5	22.5	L1	10.1
0.492		21.9	46.1	24.2	L1	10.0
0.515	31.5		56.0	24.5	L1	10.0
3.683	32.7		56.0	23.3	L1	9.8
3.689		25.2	46.0	20.8	N	9.8
4.119	33.3		56.0	22.7	N	9.8
4.382		24.4	46.0	21.6	L1	9.8
9.641		28.7	50.0	21.3	L1	9.9
9.728	34.6		60.0	25.4	L1	9.9

QP / CAV final measurement results ta	ts 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 Cali	bration
No.	Test Instrument	name	Manufacturer	Serial No.	Date	Interval (Month)
E5I-021	EMI Test Receiver	ESU40	R&S	100376	2023-01-28	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-075	Preamplifier	310N	SONOMA	332018	2022-05-26	12
E5I-076	Preamplifier	310N	SONOMA	332019	2022-05-26	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	-	-

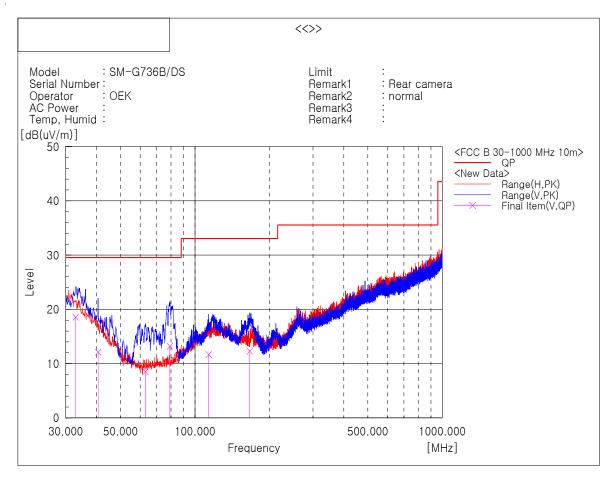
5.2.1 Temperature and humidity condition

Test date	2022-04-06 ~ 2022-04-07, 2022-04-20	Test engineer	Eun-Kyung Oh
	Ambient temperature	(21.3 ± 0.5) ℃	Limit (15.0 to 35.0) ℃
Climate condition	Humidity	(41.9 ± 0.5) % R.H.	Limit (25.0 to 75.0) % R.H.
	Atmospheric pressure	Limit (86.0 to 106.0) kPa	
Test place	S	emi-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
	[MHz]		[dB(uV)]	[dB(1/m)]	[dB(uV/m)]	[dB(uV/m)]	[dB]	[cm]	[deg]	
1	32.910	V	25.9	-7.4	18.5	29.5	11.0	300	350	2
2	40.549	V	22.6	-10.5	12.1	29.5	17.4	200	159	2
3	62.980	V	27.4	-18.9	8.5	29.5	21.0	100	203	2
4	79.106	V	30.9	-17.7	13.2	29.5	16.3	100	10	2
5	113.541	V	23.7	-12.0	11.7	33.0	21.3	200	358	2
6	166.406	V	26.4	-14.1	12.3	33.0	20.7	100	360	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)

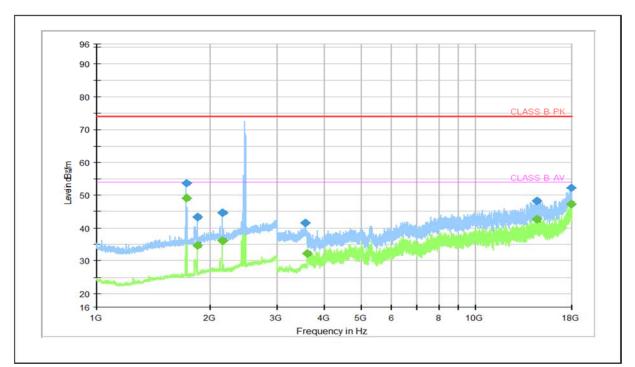
Margin (QP) = Limit – Level (QP)

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

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Mobile Phone: SM-G736B/DS

- Frequencies above 1 GHz



Frequency (MHz)	PK (dBμV/m)	CAV (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1 724.000		49.03	54.00	4.97	102.00	V	275.00	9.75
1 724.500	53.73		74.00	20.27	116.00	V	275.00	9.76
1 844.000		34.87	54.00	19.13	125.00	V	151.00	10.34
1 848.500	43.31		74.00	30.69	100.00	Н	320.00	10.40
2 146.000		36.01	54.00	17.99	130.00	Н	0.00	11.83
2 146.500	44.69		74.00	29.31	112.00	Н	267.00	11.83
3 548.500	41.45		74.00	32.55	127.00	Н	73.00	2.26
3 602.000		32.41	54.00	21.59	109.00	V	93.00	2.70
14 504.000		42.58	54.00	11.42	101.00	V	74.00	29.22
14 506.500	48.15		74.00	25.85	100.00	V	131.00	29.23
17 877.000		47.25	54.00	6.75	108.00	V	138.00	38.77
17 887.500	52.27		74.00	21.73	133.00	Н	288.00	38.78

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

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

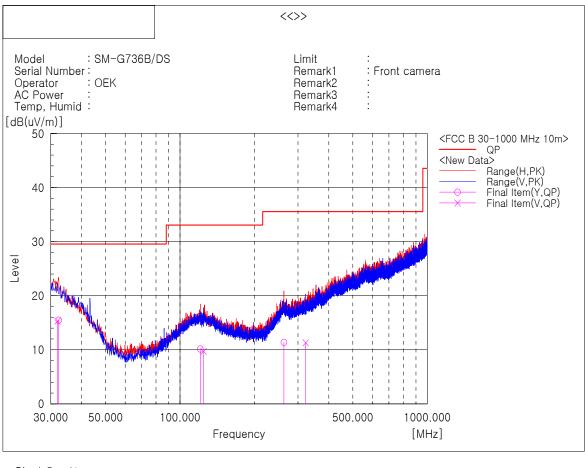
- Data transmission in the 2.4 GHz ISM band (Bluetooth/Wi-Fi)

: Operating frequencies (2 400 ~ 2 483.5) MHz

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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
	[MHz]		[dB(uV)]	[dB(1/m)]	[dB(uV/m)]	[dB(uV/m)]	[dB]	[cm]	[deg]	
1	31.940	V	22.4	-7.1	15.3	29.5	14.2	100	329	2
2	32.304	Н	23.0	-7.5	15.5	29.5	14.0	200	130	1
3	120.816	Н	22.3	-12.2	10.1	33.0	22.9	100	261	1
4	124.575	V	21.5	-11.8	9.7	33.0	23.3	100	7	2
5	263.043	Н	22.0	-10.6	11.4	35.5	24.1	200	17	1
6	322.334	V	20.7	-9.4	11.3	35.5	24.2	300	223	2

Note1) Receiving antenna polarization : Horizontal, Vertical

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

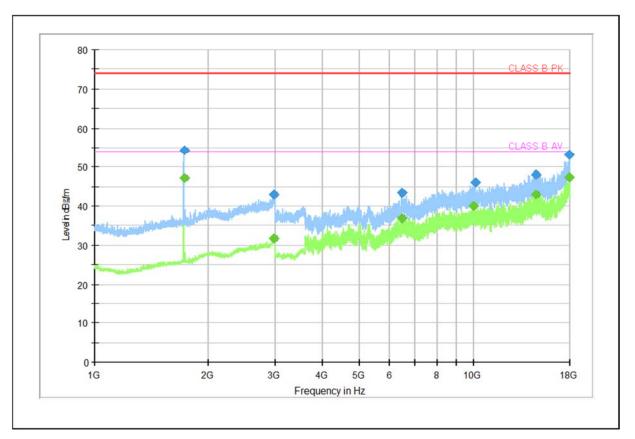
Result (QP) = Reading (QP) + c.f (Antenna Factor + Cable Loss - Amp. Gain)

Margin (QP) = Limit – Level (QP)

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

Mobile Phone: SM-G736B/DS

- Frequencies above 1 GHz



Frequency (MHz)	PK (dBµV/m)	CAV (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1 720.500	54.21		74.00	19.79	100.00	V	0.00	9.74
1 720.500		47.04	54.00	6.96	100.00	V	0.00	9.74
2 975.500		31.66	54.00	22.34	100.00	V	87.00	15.71
2 983.000	42.99		74.00	31.01	100.00	Н	301.00	15.82
6 476.500	43.29		74.00	30.71	100.00	Н	216.00	9.97
6 476.500		36.85	54.00	17.15	100.00	Н	216.00	9.97
10 007.500		39.89	54.00	14.11	100.00	V	356.00	18.33
10 097.000	46.14		74.00	27.86	100.00	V	36.00	17.90
14 611.500	48.10		74.00	25.90	100.00	V	211.00	29.53
14 634.000		42.88	54.00	11.12	100.00	V	75.00	29.54
17 851.500	53.24		74.00	20.76	100.00	Н	124.00	38.72
17 859.500		47.35	54.00	6.65	100.00	V	356.00	38.74

Note 1) We have also tested from 18 GHz to 40 GHz and found no emissions.

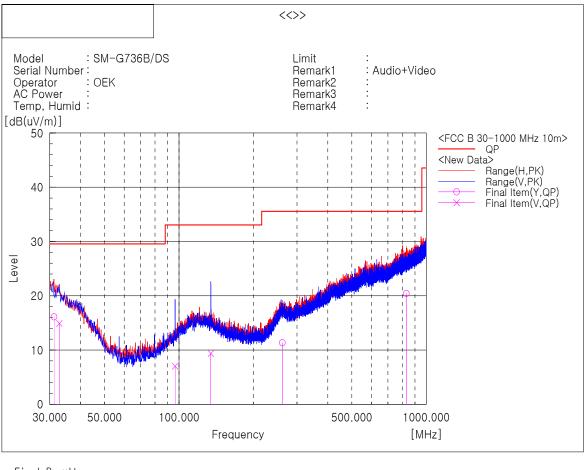
Note 2) Receiving antenna polarization : Horizontal, Vertical

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



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	31.213	Н	23.0	-6.9	16.1	29.5	13.4	200	358	1
2	32.789	V	22.2	-7.3	14.9	29.5	14.6	100	136	2
3	96.445	V	21.4	-14.4	7.0	33.0	26.0	100	317	2
4	134.518	V	21.6	-12.2	9.4	33.0	23.6	100	342	2
5	261.588	Н	21.9	-10.6	11.3	35.5	24.2	100	248	1
6	830.614	Н	22.2	-1.8	20.4	35.5	15.1	100	4	1

Note1) Receiving antenna polarization : Horizontal, Vertical

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

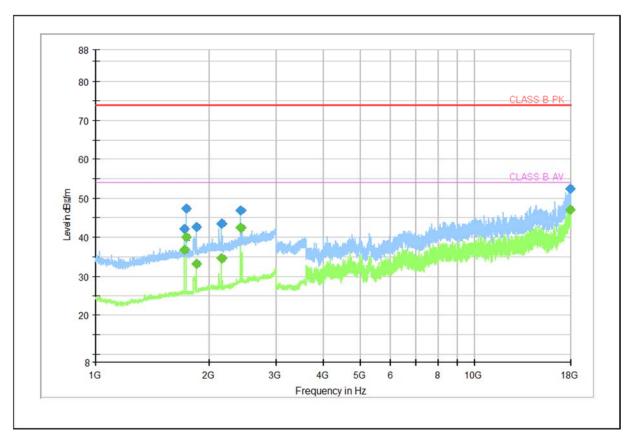
Result (QP) = Reading (QP) + c.f (Antenna Factor + Cable Loss - Amp. Gain)

Margin (QP) = Limit – Level (QP)

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

Mobile Phone: SM-G736B/DS

- Frequencies above 1 GHz



Frequency (MHz)	PK (dBμV/m)	CAV (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1 716.000	42.16		74.00	31.84	118.00	Н	2.00	9.72
1 716.000		36.88	54.00	17.12	100.00	Н	2.00	9.72
1 733.500		39.91	54.00	14.09	120.00	Н	156.00	9.79
1 733.500	47.40		74.00	26.60	111.00	Н	156.00	9.79
1 842.500	42.59		74.00	31.41	100.00	Н	54.00	10.32
1 849.000		33.19	54.00	20.81	109.00	Н	183.00	10.41
2 146.000		34.65	54.00	19.35	136.00	Н	235.00	11.83
2 146.500	43.46		74.00	30.54	125.00	Н	296.00	11.83
2 416.000		42.46	54.00	11.54	117.00	Н	230.00	12.94
2 416.500	46.99		74.00	27.01	104.00	Н	230.00	12.95
17 838.000		47.02	54.00	6.98	100.00	Н	210.00	38.72
17 880.500	52.38		74.00	21.62	120.00	Н	229.00	38.77

Note 1) We have also tested from 18 GHz to 40 GHz and found no emissions.

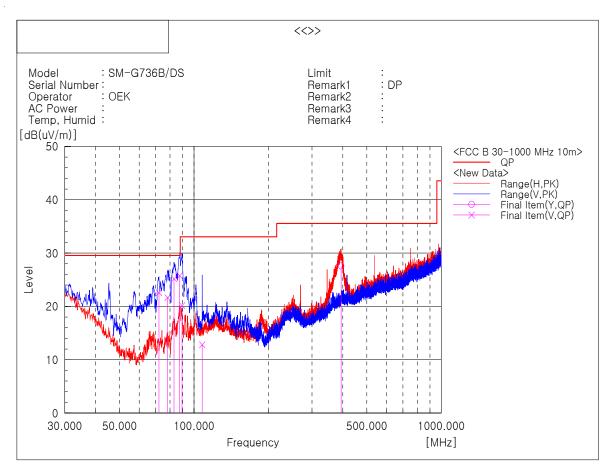
Note 2) Receiving antenna polarization : Horizontal, Vertical

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 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	72.195	V	41.0	-18.4	22.6	29.5	6.9	193	77	2
2	78.136	V	39.6	-17.9	21.7	29.5	7.8	175	98	2
3	82.986	V	42.2	-17.0	25.2	29.5	4.3	170	76	2
4	87.472	V	41.9	-16.1	25.8	29.5	3.7	130	94	2
5	89.412	V	35.8	-15.7	20.1	33.0	12.9	128	94	2
6	107.964	V	25.3	-12.5	12.8	33.0	20.2	113	275	2
7	393.629	Н	35.5	-7.9	27.6	35.5	7.9	215	130	1

Note1) Receiving antenna polarization : Horizontal, Vertical

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

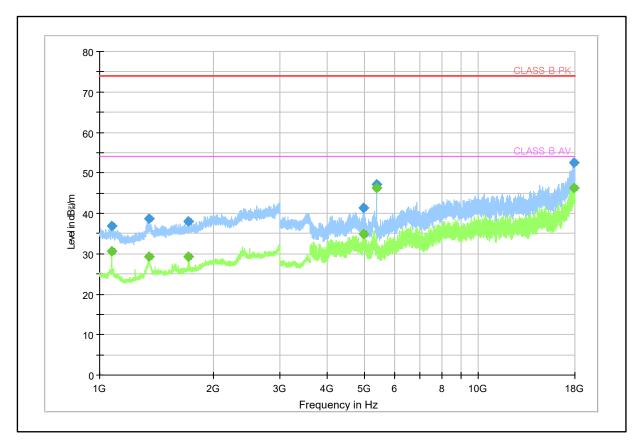
Result (QP) = Reading (QP) + c.f (Antenna Factor + Cable Loss - Amp. Gain)

Margin (QP) = Limit – Level (QP)

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

Mobile Phone: SM-G736B/DS

- Frequencies above 1 GHz



Frequency (MHz)	PK (dBμV/m)	CAV (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1 077.000	36.88		74.00	37.12	114.0	Н	236.0	6.14
1 077.000		30.54	54.00	23.46	112.0	Н	236.0	6.14
1 350.000	38.57		74.00	35.43	101.0	Н	140.0	7.35
1 350.000		29.28	54.00	24.72	100.0	Н	140.0	7.35
1 717.500		29.25	54.00	24.75	105.0	Н	241.0	9.73
1 718.000	37.91		74.00	36.09	106.0	Н	241.0	9.73
4 970.000		34.88	54.00	19.12	100.0	Н	115.0	7.24
4 970.000	41.38		74.00	32.62	104.0	Н	115.0	7.24
5 400.000		46.30	54.00	7.70	100.0	Н	128.0	6.21
5 400.000	47.13		74.00	26.87	100.0	Н	128.0	6.21
17 840.000	52.59		74.00	21.41	113.0	Н	260.0	38.72
17 849.000		46.33	54.00	7.67	125.0	Н	44.0	38.72

Note 1) We have also tested from 18 GHz to 40 GHz and found no emissions.

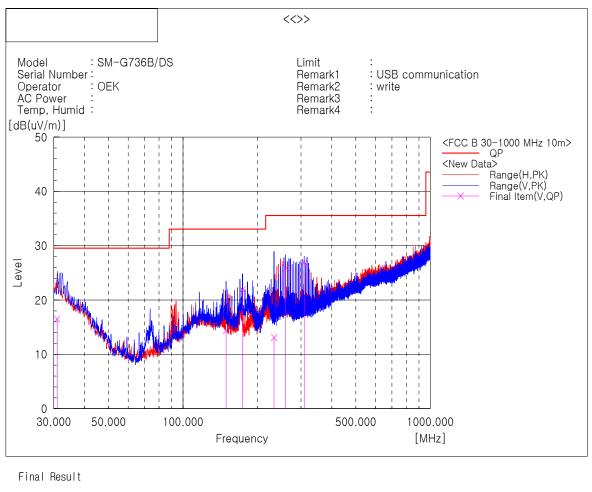
Note 2) Receiving antenna polarization : Horizontal, Vertical

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 5

- 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	30.970	V	23.4	-6.9	16.5	29.5	13.0	311	102	2
2	149.431	V	28.1	-13.7	14.4	33.0	18.6	197	311	2
3	174.045	V	36.2	-14.3	21.9	33.0	11.1	100	213	2
4	233.458	V	26.4	-13.3	13.1	35.5	22.4	213	313	2
5	260.133	V	35.6	-9.7	25.9	35.5	9.6	108	156	2
6	309.239	V	36.6	-9.7	26.9	35.5	8.6	134	204	2

Note1) Receiving antenna polarization : Horizontal, Vertical

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

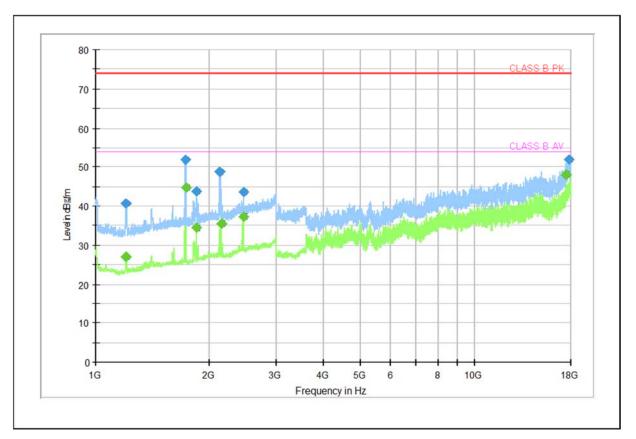
Result (QP) = Reading (QP) + c.f (Antenna Factor + Cable Loss - Amp. Gain)

Margin (QP) = Limit – Level (QP)

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

Mobile Phone: SM-G736B/DS

- Frequencies above 1 GHz



Frequency (MHz)	PK (dBμV/m)	CAV (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1 199.500	40.57		74.00	33.43	113.00	Н	22.00	5.86
1 200.000		27.02	54.00	26.98	102.00	Н	26.00	5.86
1 724.000	51.81		74.00	22.19	126.00	Н	274.00	9.75
1 732.500		44.73	54.00	9.27	117.00	Н	215.00	9.79
1 846.500	43.84		74.00	30.16	101.00	V	285.00	10.37
1 849.000		34.46	54.00	19.54	100.00	Н	292.00	10.41
2 126.500	48.63		74.00	25.37	100.00	V	25.00	11.89
2 146.500		35.46	54.00	18.54	130.00	Н	274.00	11.83
2 453.500		37.34	54.00	16.66	112.00	Н	26.00	13.16
2 454.000	43.62		74.00	30.38	106.00	Н	26.00	13.16
17 485.000		47.95	54.00	6.05	121.00	V	100.00	37.26
17 751.000	51.93		74.00	22.07	103.00	Н	9.00	38.44

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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