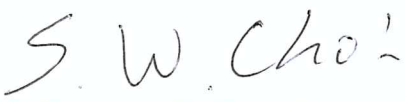
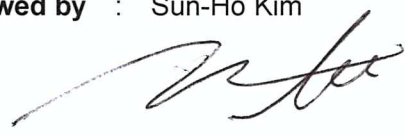


# EMC TEST REPORT

<b>Project No.</b>	LBE20210695	<b>Issue No.</b>	1
<b>Applicant</b>	<b>Name of organization</b>	Samsung Electronics Co., Ltd.	
	<b>Address</b>	(Maetan-dong) 129, Samsung-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16677, Korea	
	<b>Date of receipt</b>	October 28, 2021	
<b>EUT</b>	<b>Type of device</b>	<input type="checkbox"/> All other receivers subject to Part 15 <input checked="" type="checkbox"/> Class B personal computers and peripherals <input checked="" type="checkbox"/> Other Class B digital devices and peripherals <input type="checkbox"/> FM Broadcast Receiver	
	<b>Equipment authorization</b>	<input checked="" type="checkbox"/> Certification <input type="checkbox"/> Supplier's Declaration of Conformity	
	<b>FCC ID</b>	A3LSMT260	
	<b>Kind of product</b>	Portable Device	
	<b>Model No.</b>	SM-T260	
	<b>Variant Model No.</b>	Refer to clause 4.6	
	<b>Manufacturer</b>	Samsung Electronics Vietnam Thai Nguyen Co., Ltd. Yen Binh Industrial Zone Pho Ten Dist., Thai Nguyen Province, Vietnam	
<b>Applied Standards</b>	47 CFR Part 15, Subpart B, Class B / ANSI C63.4-2014		
<b>Test Period</b>	October 29, 2021 ~ November 05, 2021		
<b>Issue date</b>	November 16, 2021		
<b>Test result : Complied</b>			
The equipment under test has found to be compliant with the applied standards. (Refer to the attached test result for more detail.)			
<b>Tested by</b> : Sung-Wook Choi 		<b>Reviewed by</b> : Sun-Ho Kim 	
The test results in this report only apply to the tested sample. This report must not be reproduced, except in full, without written permission from Global CS center. * Not KOLAS report			
<b>Samsung Electronics Co., Ltd., Global CS Center</b> (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	November 15, 2021	There are no revisions and this version is basic test report.
Issue 1	November 16, 2021	Highest frequency is corrected because of typing error.

# 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
Portable Device	SM-T260	-	SAMSUNG	A3LSMT260
Battery	EB-BG781ABY	-	SDI	-
Data Cable	EP-DT725	-	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-TA12JWE	DK3J807VS/B-E	Dongyang E&P	-

This tablet device does not contain the minimum number of ports required for personal computer testing per ANSI C63.4, but the EUT is attached to a computer through its only available port, which represents worst case emissions. All other aspects of C63.4 testing requirements were maintained.

## 4.2 EUT operating mode

To achieve compliance applied standard specification including JAB and JBP requirement, the following mode(s) were made during compliance testing:

### 4.2.1 Conducted Emission

No.	Operating mode
1	Charging (w/TA)
2	USB data communication with PC (from internal memory)

### 4.2.2 Radiated Emission

No.	Operating mode
1	Charging (w/TA)
2	USB data communication with PC (from internal memory)

## 4.3 Details of Sampling

Customer selected, single unit.

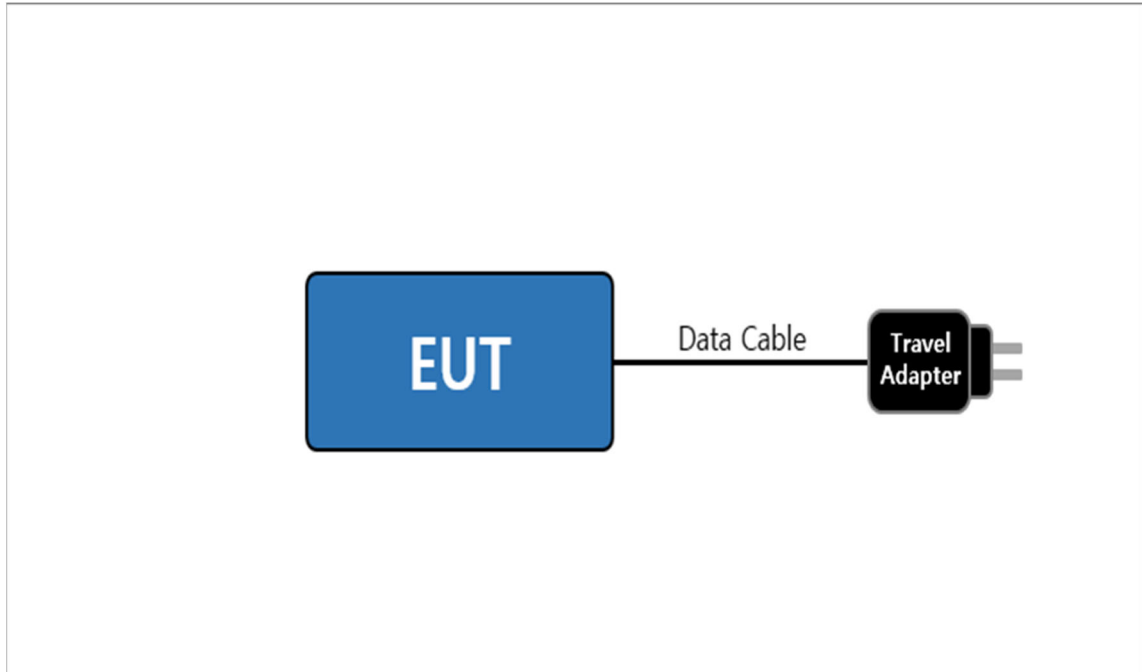
#### 4.4 Used cable description

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:

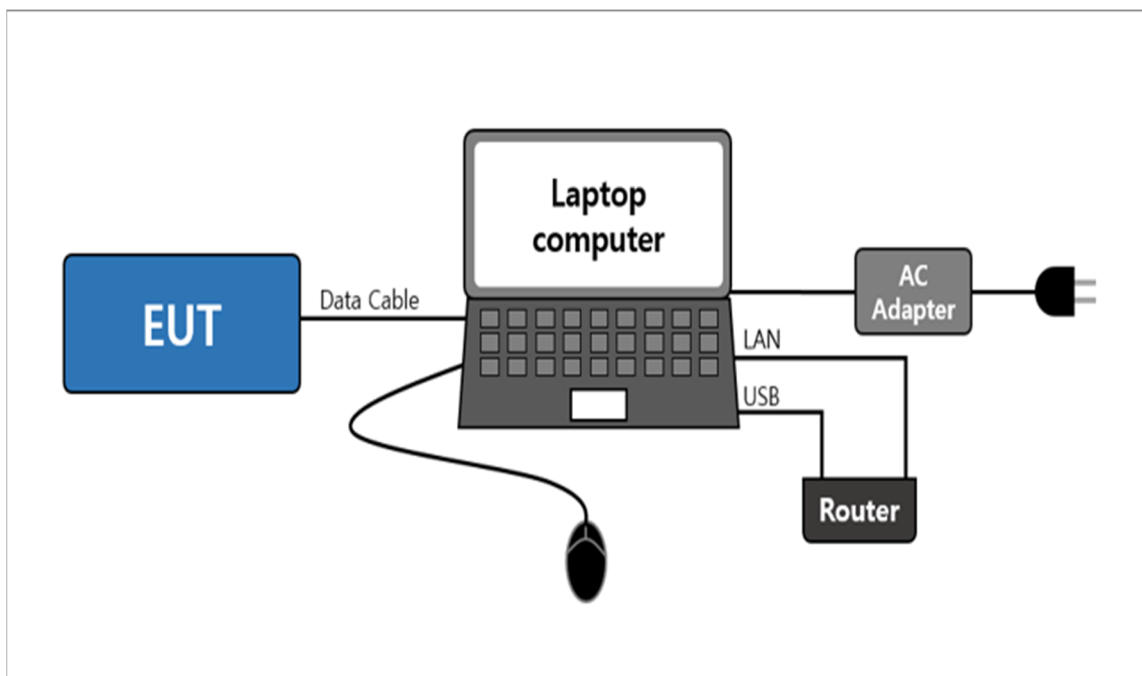
Connected cable	Length [m]	Shielded [Y/N]	Note
Data Cable	1.0	Y	From EUT to Laptop Computer or Travel Adapter
Power	1.8	N	From Laptop Computer to AC Adapter
Power	1.5	N	For Laptop AC Adapter
LAN	1.5	N	From Laptop Computer to Router
USB	0.8	Y	From Laptop Computer to Router for DC Power
USB	1.8	Y	From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

## 4.5 Test arrangement

### 4.5.1 Conducted Emission

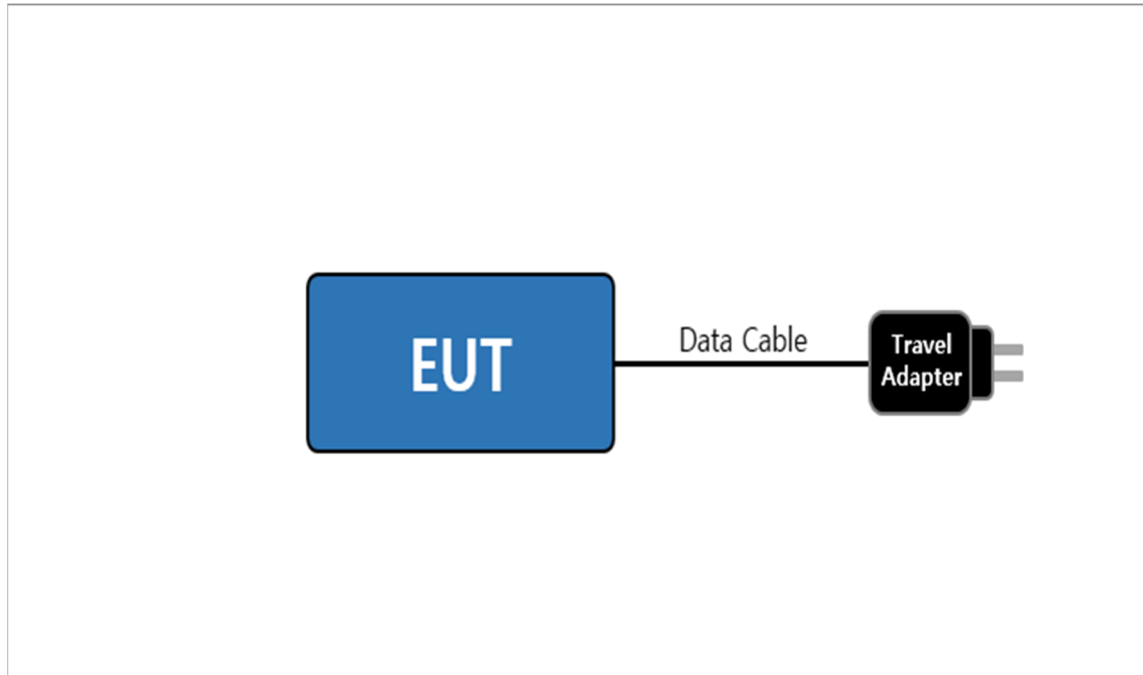


[ Mode 1 ]

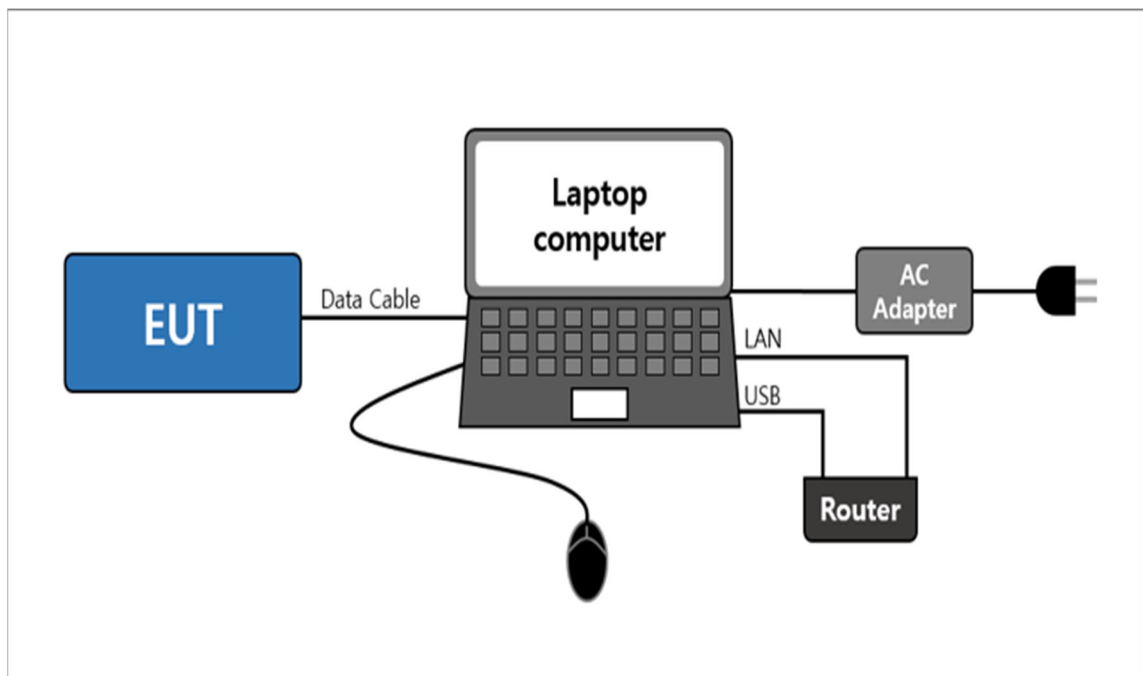


[ Mode 2 ]

## 4.5.2 Radiated Emission



[ Mode 1 ]



[ Mode 2 ]



## 4.6 EUT Description

The EUT is a tablet type portable device which can be incorporates a Bluetooth, Wi-Fi (802.11 b/g/n) and GNSS.

### 4.6.1 The variant models

- None

## 4.7 EUT Frequencies

The highest frequencies (Generated and used)	Frequency [ MHz ]
Bluetooth	2 483.5

## 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.

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 %, $k = 2$ )
Conducted Emission	AC Mains	2.82 dB
Radiated Emission (Below 1 GHz)	Horizontal	5.03 dB
	Vertical	6.13 dB
Radiated Emission (Above 1 GHz)	Horizontal	4.99 dB
	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 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 [ kHz ]	Limits [ dB( $\mu$ V) ]	
		Quasi-peak	Average
0.15 to 0.50	9	66 to 56	56 to 46
0.50 to 5	9	56	46
5 to 30	9	60	50

NOTE 1 The lower limit shall apply at the transition frequency.

NOTE 2 The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz.

#### 5.1.1 Test instrumentation

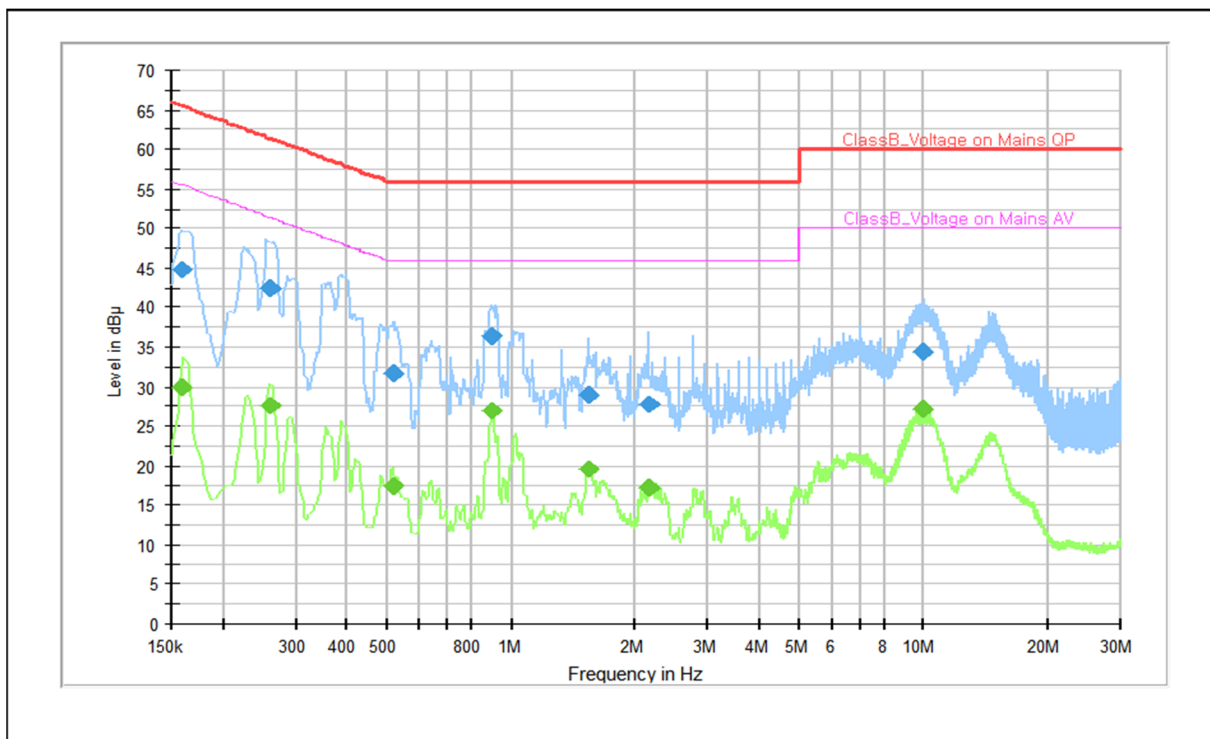
EMC No.	Test Instrument	Model name	Manufacturer	Serial No.	Next Calibration	
					Date	Interval (Month)
E5I-127	Two-Line V-Network	ENV216	R&S	102061	2022-08-02	12
E5I-016	EMI Test Receiver	ESU8	R&S	100482	2022-06-03	12
-	Test software	EMC32	R&S	Ver 10.60.20	-	-

#### 5.1.2 Temperature and humidity condition

Test date	2021-11-04	Test engineer	Sung-Wook Choi
Climate condition	Ambient temperature	(24.4 $\pm$ 0.5) °C	Limit (15.0 to 35.0) °C
	Relative humidity	(41.2 $\pm$ 0.5) % R.H.	Limit (25.0 to 75.0) % R.H.
	Atmospheric pressure	(101.6 $\pm$ 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



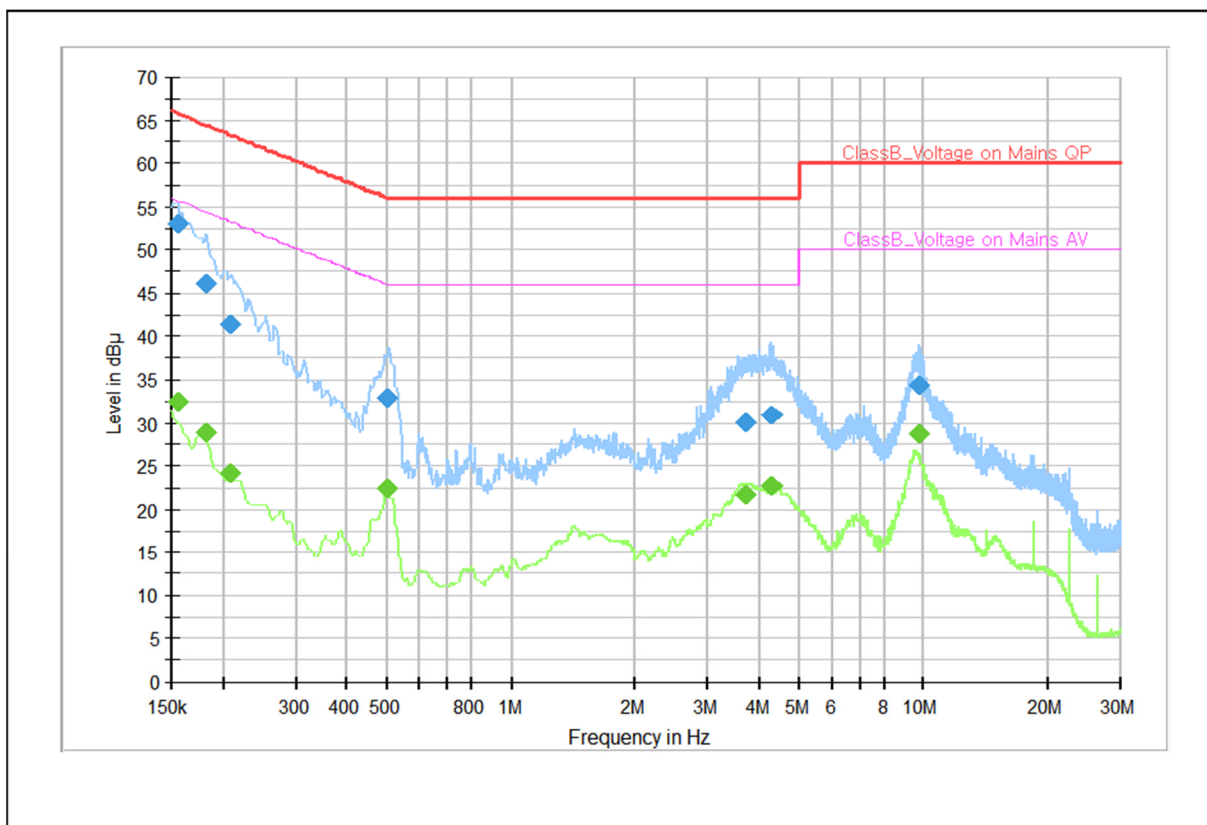
Note 1) Two graphs measured for both Live(L1) and Neutral(N) of the LISN are combined into one graph.

QP / CAV final measurement results table:

Frequency (MHz)	QP (dBµV)	CAV (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)
0.159	44.7	---	65.5	20.8	N	9.9
0.159	---	29.9	55.5	25.6	N	9.9
0.260	42.5	---	61.4	18.9	N	9.8
0.260	---	27.6	51.4	23.8	N	9.8
0.515	31.7	---	56.0	24.3	N	10.1
0.515	---	17.4	46.0	28.6	N	10.1
0.895	---	27.1	46.0	18.9	N	10.0
0.895	36.4	---	56.0	19.6	N	10.0
1.541	---	19.6	46.0	26.4	N	9.9
1.541	29.0	---	56.0	27.1	N	9.9
2.150	---	17.1	46.0	28.9	N	9.9
2.150	27.8	---	56.0	28.2	N	9.9
9.985	---	27.1	50.0	22.9	N	10.2
9.985	34.3	---	60.0	25.7	N	10.2

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

□ **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)
0.155	53.0	---	65.8	12.7	L1	9.8
0.155	---	32.5	55.8	23.2	L1	9.8
0.182	46.1	---	64.4	18.3	L1	9.9
0.182	---	28.9	54.4	25.5	L1	9.9
0.209	---	24.2	53.3	29.1	L1	9.9
0.209	41.5	---	63.3	21.8	L1	9.9
0.499	32.8	---	56.0	23.3	L1	10.1
0.499	---	22.5	46.0	23.5	L1	10.1
3.716	---	21.8	46.0	24.2	N	9.7
3.716	30.1	---	56.0	25.9	N	9.7
4.263	---	22.6	46.0	23.4	L1	9.8
4.263	31.0	---	56.0	25.0	L1	9.8
9.758	---	28.7	50.0	21.3	L1	9.9
9.758	34.5	---	60.0	25.5	L1	9.9

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

## 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 3 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 [ MHz ]	Field Strength		
	3 m [ $\mu\text{V/m}$ ]	3 m [ dB( $\mu\text{V/m}$ ) ]	10 m [ dB( $\mu\text{V/m}$ ) ]
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 formula 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 No.	Test Instrument	Model name	Manufacturer	Serial No.	Next Calibration	
					Date	Interval (Month)
E5I-021	EMI Test Receiver	ESU40	R&S	100376	2022-02-04	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-093	Preamplifier	310N	SONOMA	273122	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
-	Test software	EP7RE	TOYO	Ver 8.0.20	-	-
-	Test software	EMC32	R&S	Ver 9.25.00	-	-

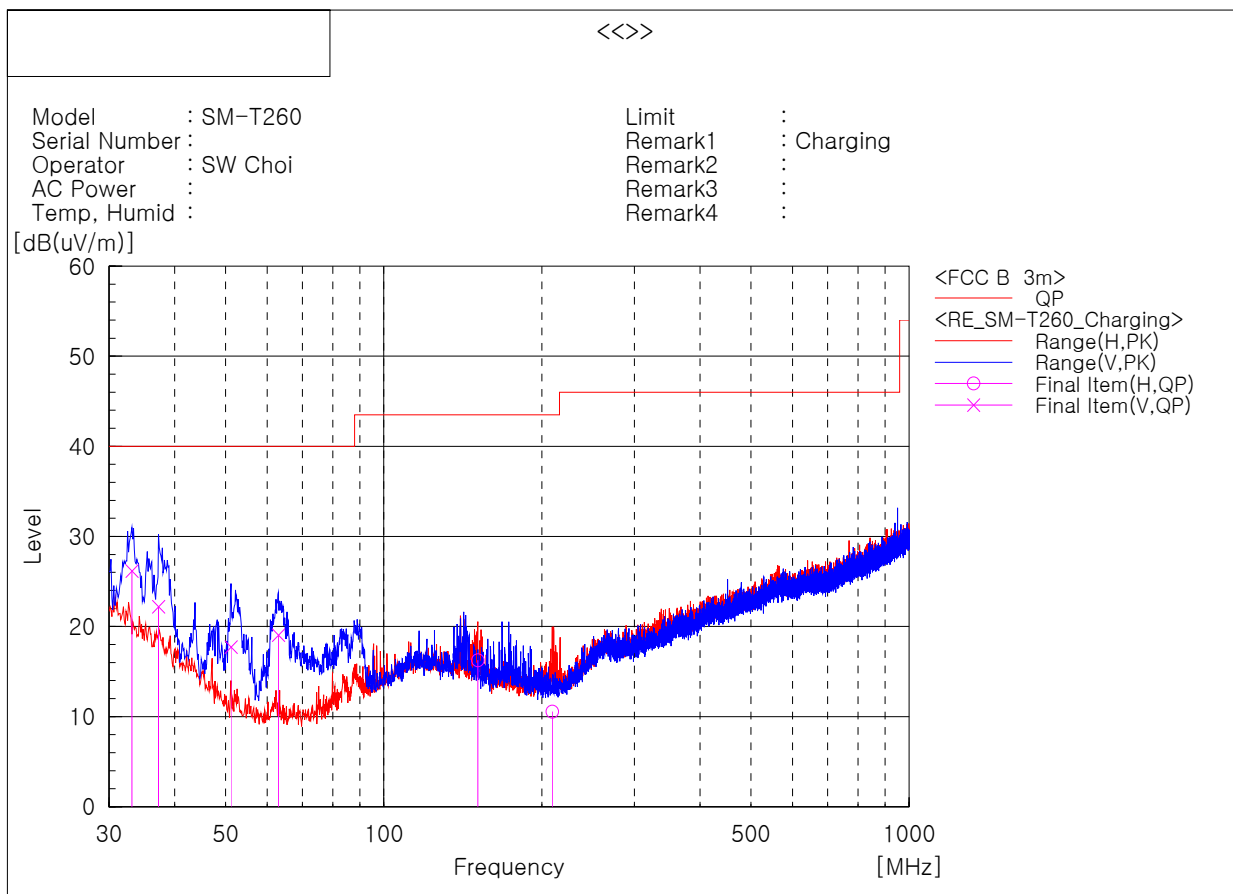
## 5.2.1 Temperature and humidity condition

<b>Test date</b>	2021-10-29, 2021-11-05	<b>Test engineer</b>	Sung-Wook Choi
<b>Climate condition</b>	Ambient temperature	(23.2 ± 0.5) °C	Limit (15.0 to 35.0) °C
	Relative humidity	(39.2 ± 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
<b>Test place</b>	Semi-Anechoic Chamber (SAC5)		

### 5.2.3 Test Results

#### □ Operating Mode 1

#### - Frequencies below 1 GHz



Final Result

No.	Frequency [MHz]	(P)	Reading QP [dB(uV)]	c.f [dB(1/m)]	Result QP [dB(uV/m)]	Limit QP [dB(uV/m)]	Margin QP [dB]	Height [cm]	Angle [deg]
1	33.153	V	34.3	-8.1	26.2	40.0	13.8	103	80
2	37.275	V	32.4	-10.2	22.2	40.0	17.8	100	50
3	51.219	V	35.3	-17.6	17.7	40.0	22.3	100	325
4	62.980	V	37.6	-18.6	19.0	40.0	21.0	120	200
5	151.008	H	30.3	-14.0	16.3	43.5	27.2	400	252
6	209.208	H	25.2	-14.7	10.5	43.5	33.0	380	320

Note1) Receiving antenna polarization : Horizontal, Vertical

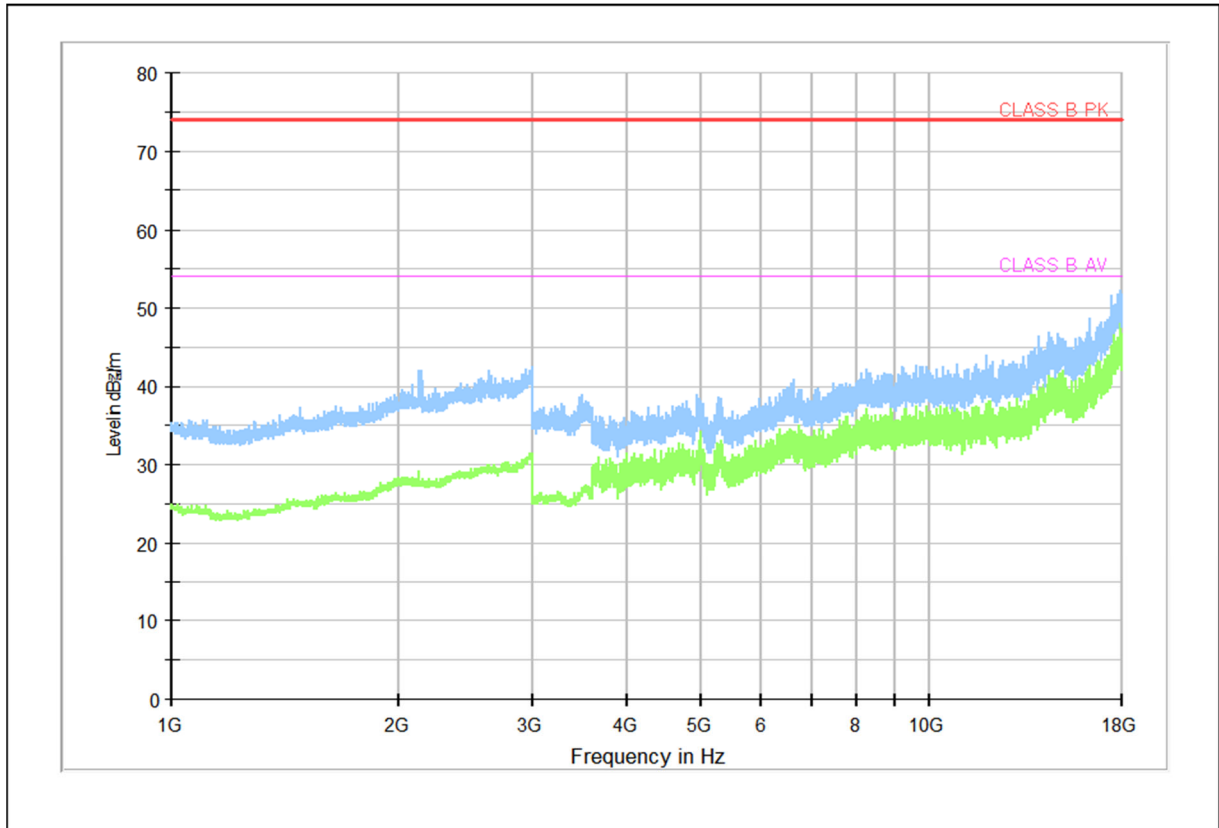
Test Distance : 3 m, Antenna Height : 1 to 4 meters

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) Receiving antenna polarization : Horizontal, Vertical

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

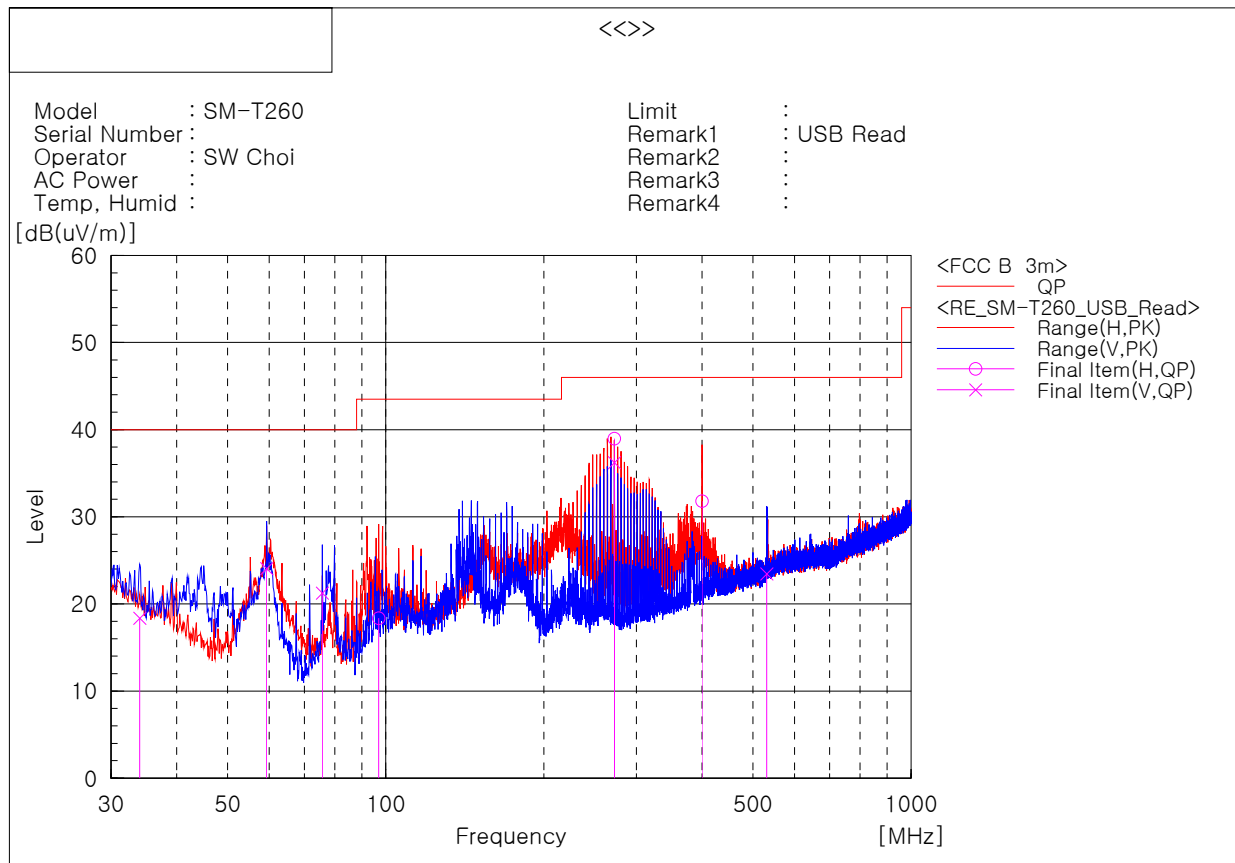
Level (PK and/or CAV) = Reading (PK and/or CAV) + Corr. (Antenna Factor + Cable Loss - Amp. Gain)

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 [MHz]	(P)	Reading QP [dB(uV)]	c.f [dB(1/m)]	Result QP [dB(uV/m)]	Limit QP [dB(uV/m)]	Margin QP [dB]	Height [cm]	Angle [deg]
1	34.001	V	26.8	-8.5	18.3	40.0	21.7	100	343
2	59.343	V	42.8	-18.7	24.1	40.0	15.9	230	306
3	75.711	V	39.2	-18.0	21.2	40.0	18.8	128	296
4	96.930	H	33.0	-14.6	18.4	43.5	25.1	312	306
5	272.379	V	46.7	-10.5	36.2	46.0	9.8	161	250
6	272.379	H	49.5	-10.5	39.0	46.0	7.0	103	276
7	400.055	H	38.8	-7.0	31.8	46.0	14.2	100	294
8	530.884	V	27.9	-4.5	23.4	46.0	22.6	101	352

Note1) Receiving antenna polarization : Horizontal, Vertical

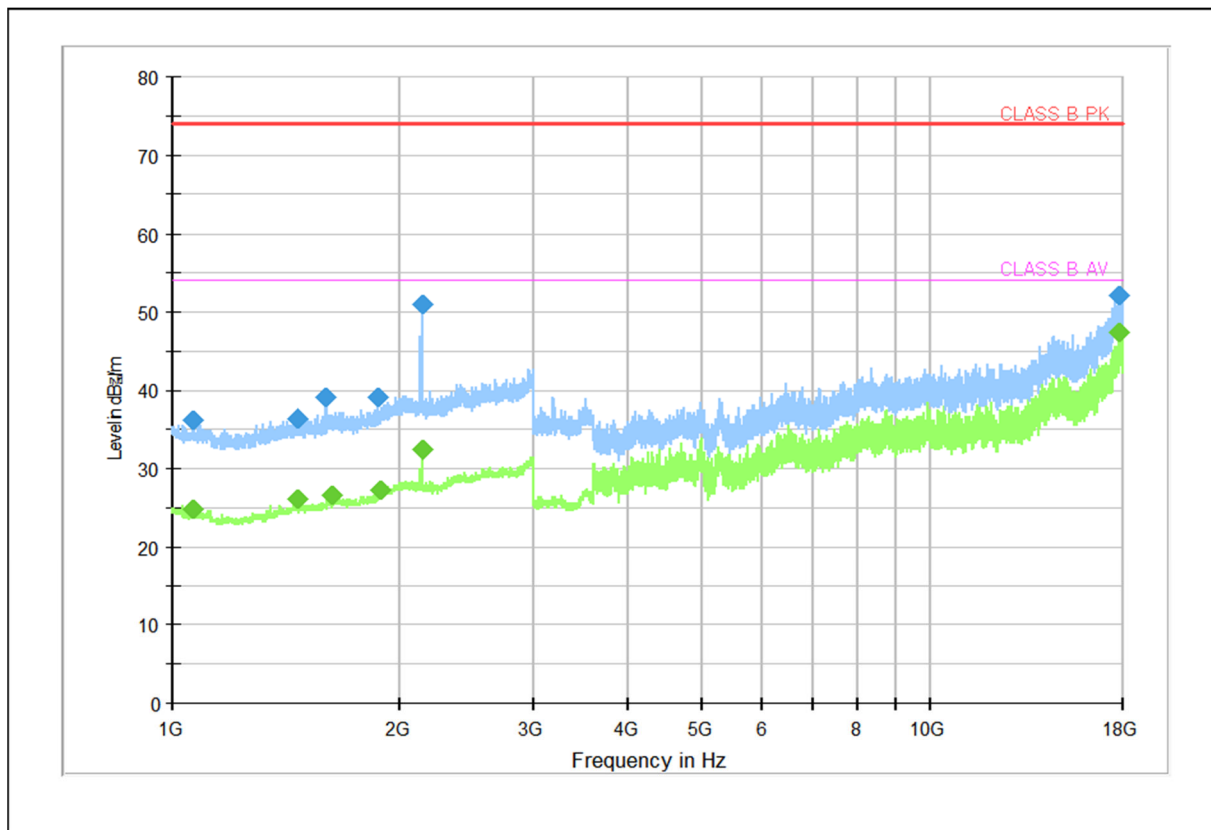
Test Distance : 3 m, Antenna Height : 1 to 4 meters

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

Margin (QP) = Limit - Level (QP)

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

**- Frequencies above 1 GHz**



Frequency (MHz)	PK (dBµV/m)	CAV (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1 063.500	36.23	---	74.00	37.77	109.70	V	342.00	6.15
1 064.000	---	24.77	54.00	29.23	107.60	V	342.00	6.16
1 458.500	---	26.15	54.00	27.85	102.10	V	18.00	8.38
1 462.500	36.37	---	74.00	37.63	104.80	H	114.00	8.38
1 596.000	39.15	---	74.00	34.85	102.90	V	138.00	9.30
1 624.000	---	26.66	54.00	27.34	106.30	V	16.00	9.48
1 866.000	39.16	---	74.00	34.84	101.00	V	114.00	10.45
1 884.500	---	27.22	54.00	26.78	106.40	H	57.00	10.71
2 132.500	---	32.34	54.00	21.66	107.10	V	16.00	11.90
2 132.500	50.86	---	74.00	23.14	109.30	V	16.00	11.90
17 818.000	---	47.27	54.00	6.73	105.70	V	254.00	38.70
17 833.500	52.04	---	74.00	21.96	103.00	H	214.00	38.76

Note 1) 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