

EMC TEST REPORT



Project No.	LBE20182112	Issue No.	0
Applicant	Name of organization	Samsung Electronics Co., Ltd.	
	Address	(Maetan-dong) 129, Samsung-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16677, Republic of Korea	
	Date of application	November 30, 2018	
EUT	Type of device	<input checked="" type="checkbox"/> All other Receivers subject to part15 <input checked="" type="checkbox"/> Class B Personal Computers and peripherals <input checked="" type="checkbox"/> Other Class B digital devices and peripherals <input checked="" type="checkbox"/> FM Broadcast Receiver	
	Equipment authorization	<input checked="" type="checkbox"/> Certification <input type="checkbox"/> Supplier's Declaration of Conformity	
	FCC ID	A3LSMM205F	
	Kind of product	Mobile Phone	
	Model No.	SM-M205F/DS	
	Variant Model No.	Refer to clause 4.6	
	Manufacturer	SAMSUNG ELECTRONICS CO., LTD. 302, 3 Gongdan 3-ro, Gumi-si, Gyengsangbuk-do, 39388, Republic of Korea SAMSUNG ELECTRONICS HUIZHOU CO.,LTD. 516229, Chenjiang Town, HuiZhou City, Guangdong Province, China	
Applied Standards	47 CFR Part 15, Subpart B, Class B / ANSI C63.4-2014		
Test Period	December 03, 2018 ~ December 19, 2018		
Issue date	December 26, 2018		
Test result : Complied			
The equipment under test has found to be compliant with the applied standards. (Refer to the attached test result for more detail.)			
Tested by : Soo-Joon Kim		Reviewed by : Young-Hun Kim	
			
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Global CS Center of Samsung Electronics Co., Ltd. (Maetan-dong) 129, Samsung-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16677, Republic of Korea			

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1. Report Information

1.1 Revision history

No.	Revised detailed information
Issue 0	There are no revisions and this version is basic test report.

1.2 Licensed band test report no.

No.	Remark
HCT-EM-1812-FC030	The cellular receiver mode refers to the other EMC test report.

2. Summary of test results

2.1 Emission

The EUT has been tested according to the following specifications:

Applied	Test type	Applied standard	Result
<input checked="" type="checkbox"/>	Conducted Disturbance (Mains port)	47 CFR Part 15 Subpart B / ANSI C63.4-2014 (Class B)	Complied
<input checked="" type="checkbox"/>	Radiated Disturbance		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, Republic of 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 operated as testing laboratory in accordance with the requirements of ISO/IEC 17025:2005.

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:

Mark	Description	Model No.	Serial No.	Manufacturer / Trademark	FCC ID
A	Mobile Phone	SM-M205F/DS	-	SAMSUNG	A3LSMM205F
B	Battery	EB-BG580ABN	-	SAMSUNG	-
C	Headset	EHS61ASFWE	-	SAMSUNG	-
D	Data Cable	EP-DR140AWE	-	SAMSUNG	-
E	Micro SD Card	64GB	-	SAMSUNG	-
F	Desk-Top Computer	DM-C410	HFGD97AB700278X	SAMSUNG	-
		DM300S	A20100622	SAMSUNG	-
G	LCD TV Monitor	PE22BS	N849HVMP702249R	SAMSUNG	-
		EM23TS	NC26H1KSB01550B	SAMSUNG	-
H	Mouse	SML-210PB	TAKD125024 V	SAMSUNG	-
			TAKD124911 M	SAMSUNG	-
I	Keyboard	SDM8500P	8M001183	SAMSUNG	-
			8M001033	SAMSUNG	-
J	Gigabit Switch 8	J9794A	CN33FQ703Q	HP	-
			CN33FQ71XK	HP	-
K	Power Supply	EADP-15DC A	DIKD1245096741	Delta	-
			DIKD1245096576	Delta	-
L	Travel Adapter	EP-TA200	R37KBFB01R0RC3	SAMSUNG	-

4.2 EUT operating mode

To achieve compliance applied standard specification, 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 (GSM850 Center Frequency) + FM (Low Ch.)
2	Camera (front) + Charging (w/ TA) + FM (Mid Ch.)
3	Charging (w/ TA) + FM (High Ch.)
4	Video + Audio playback from internal memory data + Charging (w/ TA)
5	USB Data Communication with PC (from external memory data)

4.2.2 Radiated Emission

No.	Operating mode
1	Camera (rear) + Charging (w/ TA) + FM (Low Ch.)
2	Camera (front) + FM (Mid Ch.)
3	FM (High Ch.)
4	Video + Audio playback from internal memory data
5	USB Data Communication with PC (from external memory data)

4.3 Details of Sampling

Customer selected, single unit.

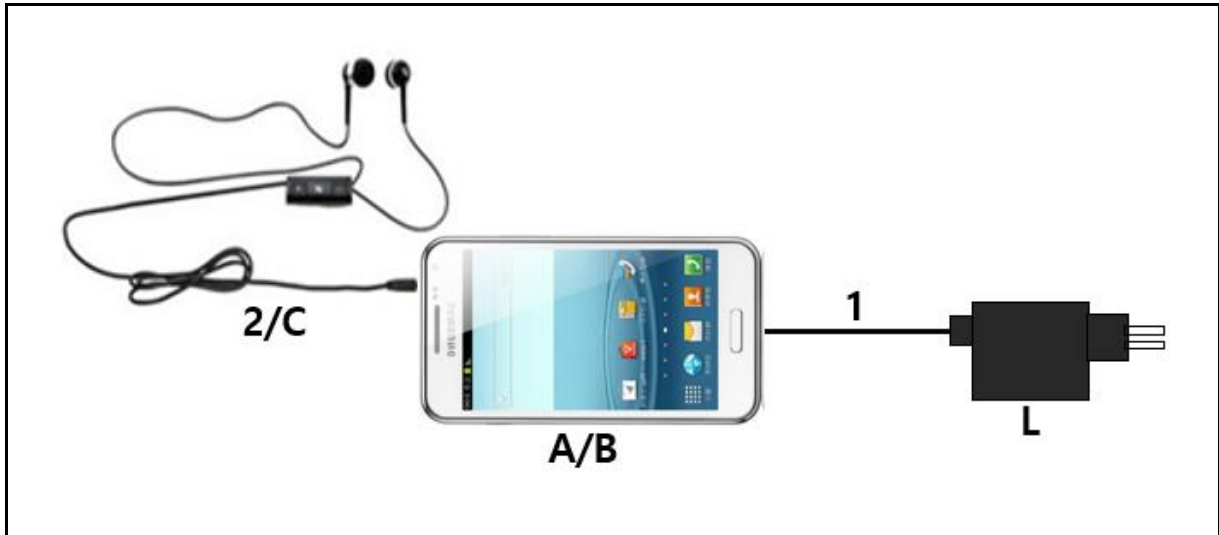
4.4 Used cable description

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:

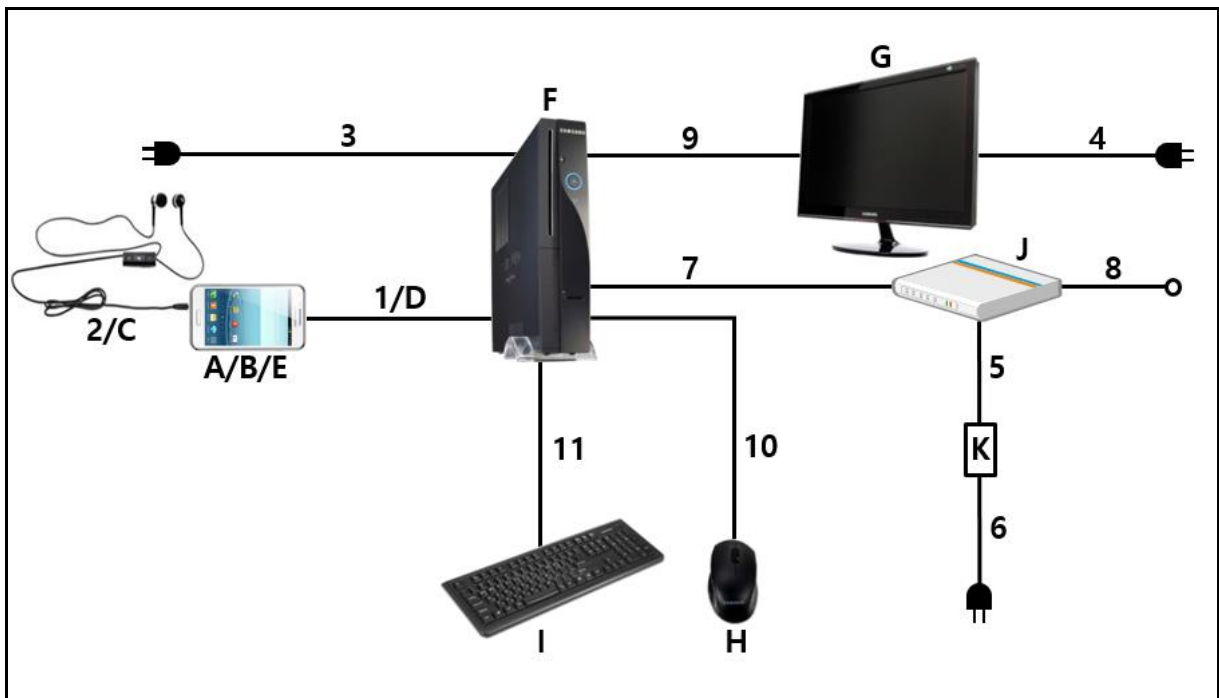
No.	Connected cable	Length [m]	Shielded [Y/N]	Note
1	Data Cable	0.8	Yes	From EUT to Desk-Top Computer
2	Headset	1.6	No	For EUT
3	Power	1.8	No	For Desk-Top Computer
4	Power	1.8	No	For LCD TV Monitor
5	Power	1.8	No	From Gigabit Switch 8 to Power Supply
6	Power	1.8	No	For Power Supply
7	LAN	1.5	No	From Desk-Top Computer to Gigabit Switch 8
8	LAN	1.5	No	From Gigabit Switch 8 to Local Area Network
9	RGB	1.8	Yes	From Desk-Top Computer to LCD TV Monitor
10	PS/2	1.5	Yes	From Desk-Top Computer to Mouse
11	PS/2	1.5	Yes	From Desk-Top Computer to Keyboard

4.5 Test arrangement

4.5.1 Conducted Emission

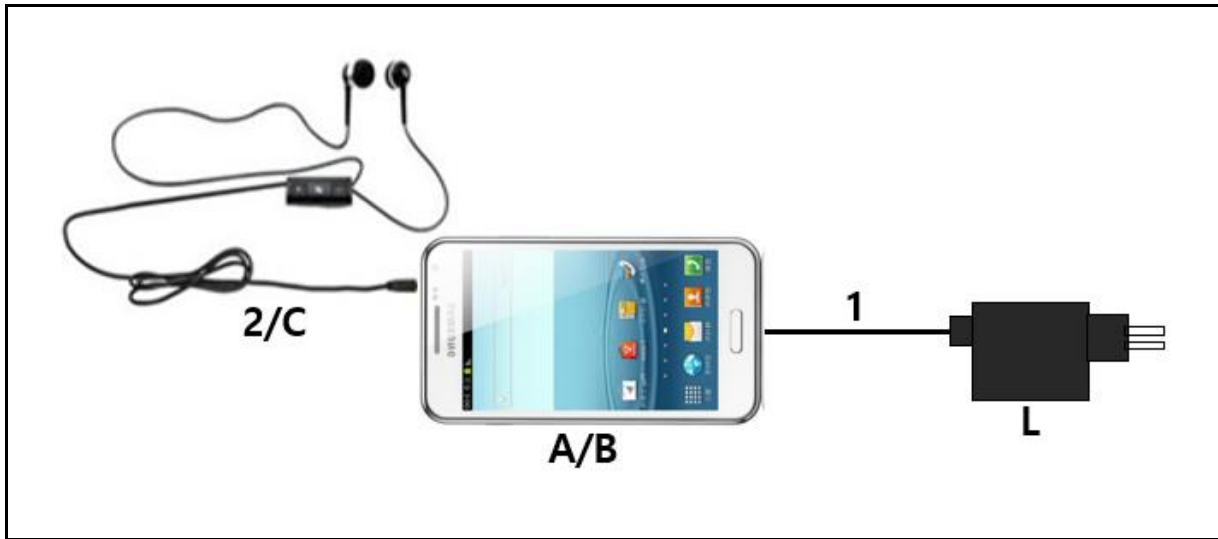


[Mode 1 - 4]

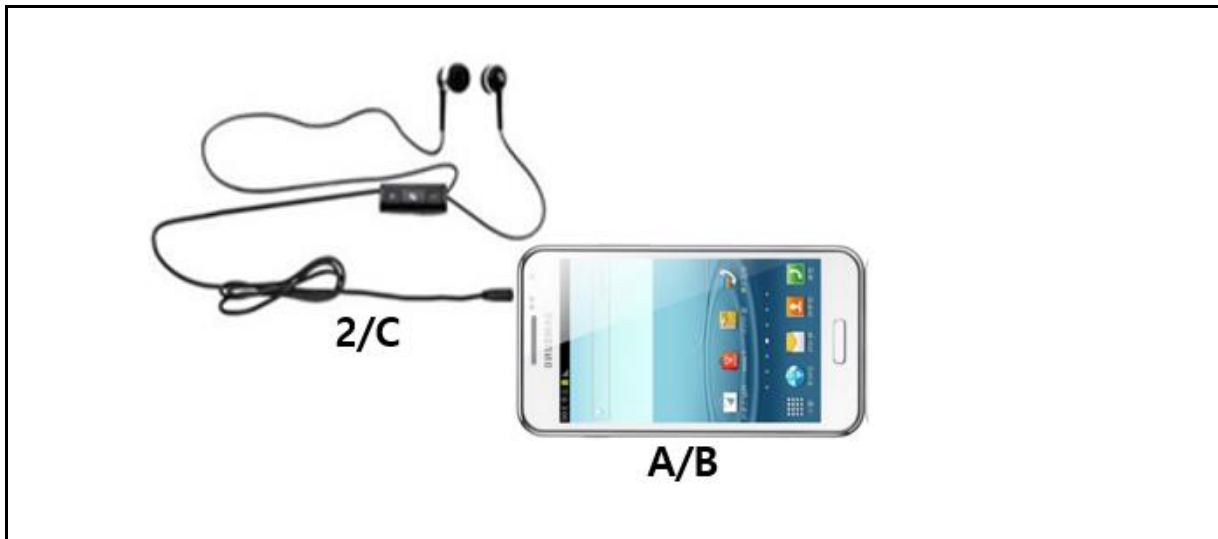


[Mode 5]

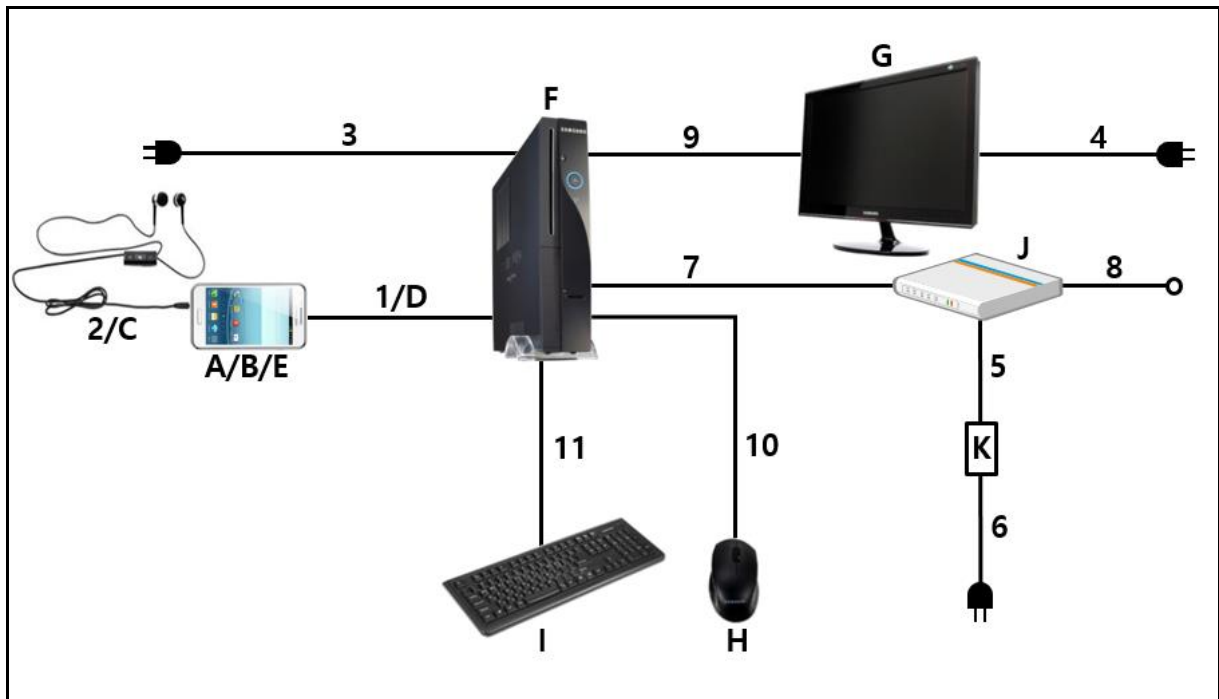
4.5.2 Radiated Emission



[Mode 1]



[Mode 2 - 4]



[Mode 5]

4.6 EUT Description

The EUT is a bar type mobile phone which can operate on GSM850/900/1800/1900, WCDMA FDD1/2/5/8, LTE FDD1/3/5/7/8/20, LTE TDD38/40/41 bands and incorporates a Camera, Bluetooth, Wi-Fi, FM Radio, GPS and MP3/MP4 player.

4.6.1 The variant models

- SM-M205F, SM-M205G/DS

4.7 EUT Frequencies

The highest frequencies (Generated and used)	Frequency [MHz]
LTE TDD 41	2 690

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, 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) radiated testing was performed with the GSM850 RX Test mode at center frequency. All licensed communication (850MHz) RX mode, GSM/WCDMA/LTE, test results are not significantly different.

The FM radio mode radiated testing was performed with the Low/Mid/High channel.

The video and music were repetitively played connected to the earphone.

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)

4.9.1 Emission

Test type		Measurement uncertainty (C.L. 95 %, k = 2)
Conducted disturbance	AC Mains	3.52 dB
Radiated Disturbance (Below 1 GHz)	Horizontal	4.99 dB
	Vertical	4.90 dB
Radiated Disturbance (Above 1 GHz)	Horizontal	5.33 dB
	Vertical	5.32 dB

5. Results of individual test

5.1 Conducted disturbance

The EUT was connected to the Desk-Top Computer which was powered from one LISN for the measurements. The support equipment power cables were connected to a second 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 disturbance at the mains ports of Class B ITE

Frequency range Limits [MHz]	Resolution Bandwidth [kHz]	Limits [dB(μV)]	
		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

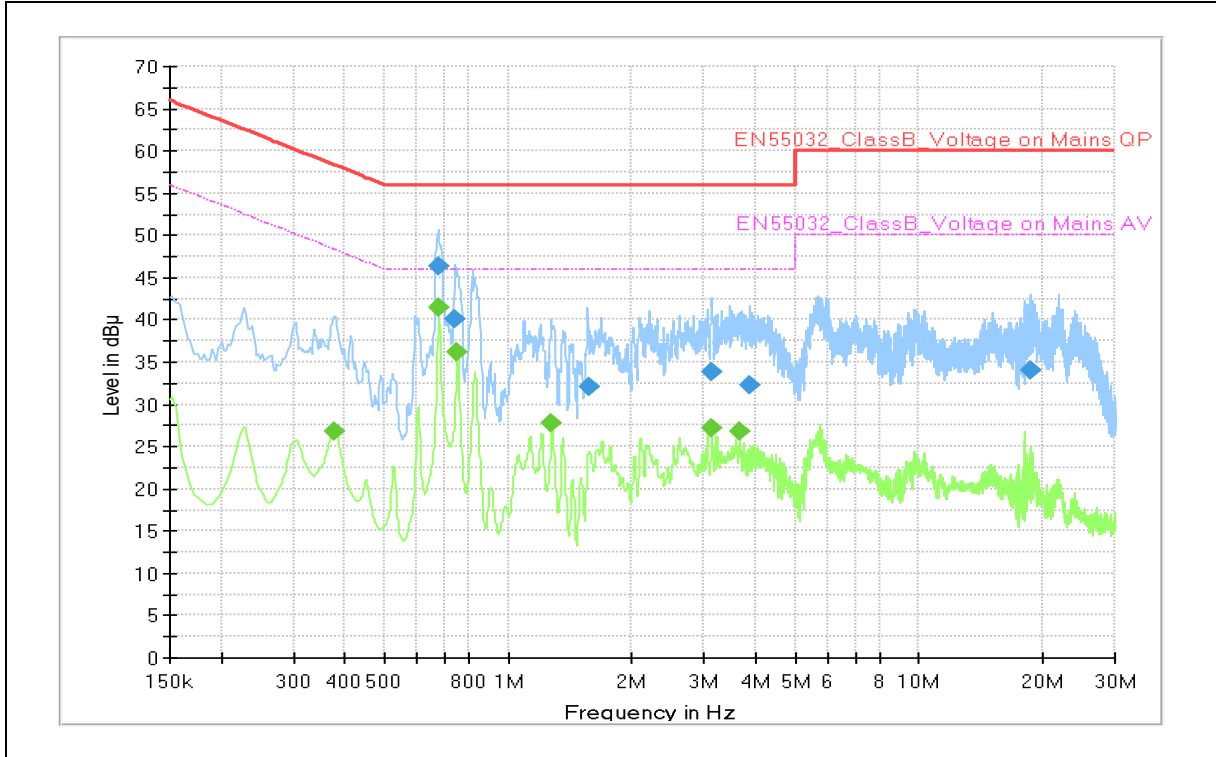
EMC No.	Test Instrument	Model name	Manufacturer	Serial No.	Calibration	
					Date	Interval (Month)
E5I-109	Universal Radio Communicator	CMU200	R&S	110431	2017-12-06	12
E5I-043	LISN	ENV216	R&S	101630	2018-08-17	12
E5I-017	EMI Test Receiver	ESU8	R&S	100483	2018-01-12	12
E5I-127	LISN	ENV216	R&S	102061	2018-07-23	12
-	Test software	EMC32	R&S	Ver 9.26.01	-	-

5.1.2 Temperature and humidity condition

Test date	2018-12-03	Test engineer	Soo-Joon Kim
Climate condition	Ambient temperature	(23.1 ~ 23.3) °C	Limit (15.0 to 35.0) °C
	Relative humidity	(45.7 ~ 46.5) % R.H.	Limit (25.0 to 75.0) % R.H.
	Atmospheric pressure	(101.4 ~ 101.7) kPa	Limit (86.0 to 106.0) kPa
Test place	Shield Room (SR8)		

5.1.3 Test results

Operating Mode 1: AC Mains



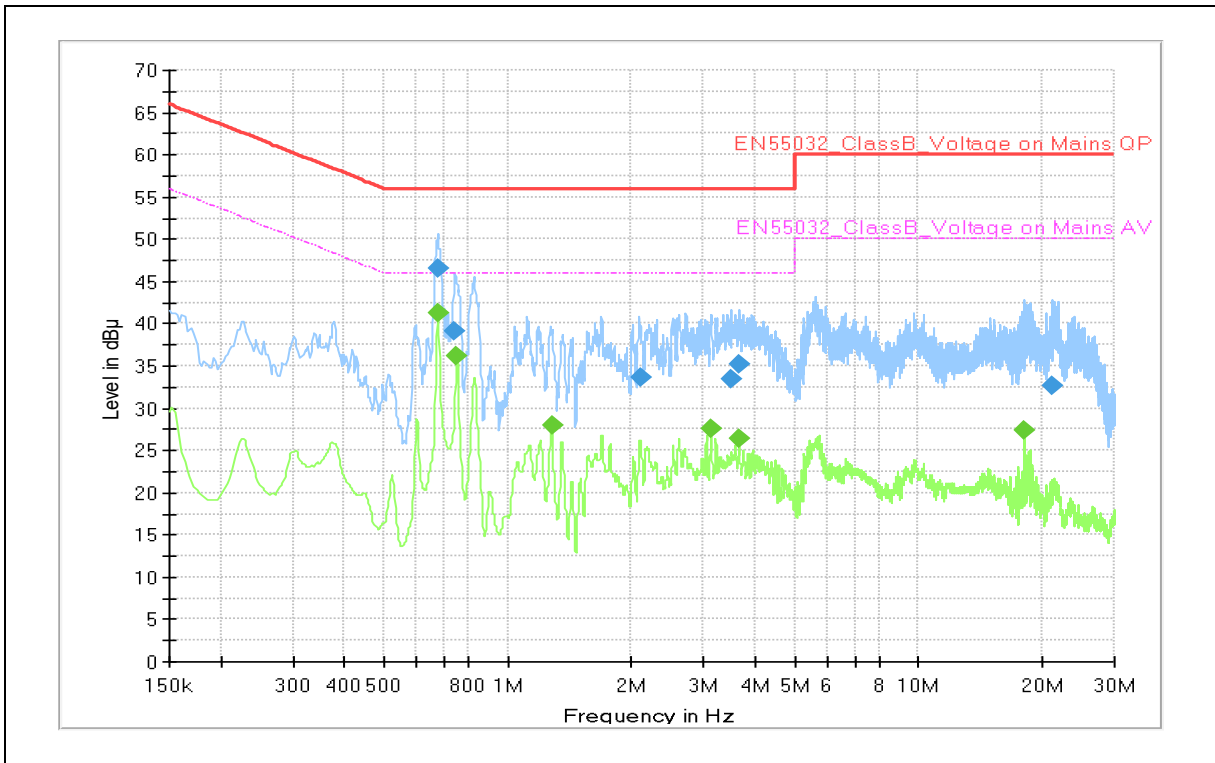
Note 1) Two graphs measured for both Live(L1) and Neutral(N) of the LISN are combined into one graph.

QP / CAV final measurement results table:

Frequency (MHz)	QP (dBµV)	CAV (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)
0.378	---	26.8	48.3	21.5	L1	10.2
0.676	46.3	---	56.0	9.7	L1	10.2
0.678	---	41.4	46.0	4.6	L1	10.2
0.745	40.0	---	56.0	16.0	L1	10.1
0.752	---	36.3	46.0	9.7	L1	10.1
1.277	---	27.8	46.0	18.2	L1	10.0
1.570	32.1	---	56.0	23.9	L1	10.0
3.125	---	27.2	46.0	18.8	L1	10.0
3.129	33.9	---	56.0	22.1	L1	10.0
3.670	---	26.8	46.0	19.2	L1	10.0
3.871	32.2	---	56.0	23.8	L1	10.0
18.621	34.0	---	60.0	26.0	N	10.6

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



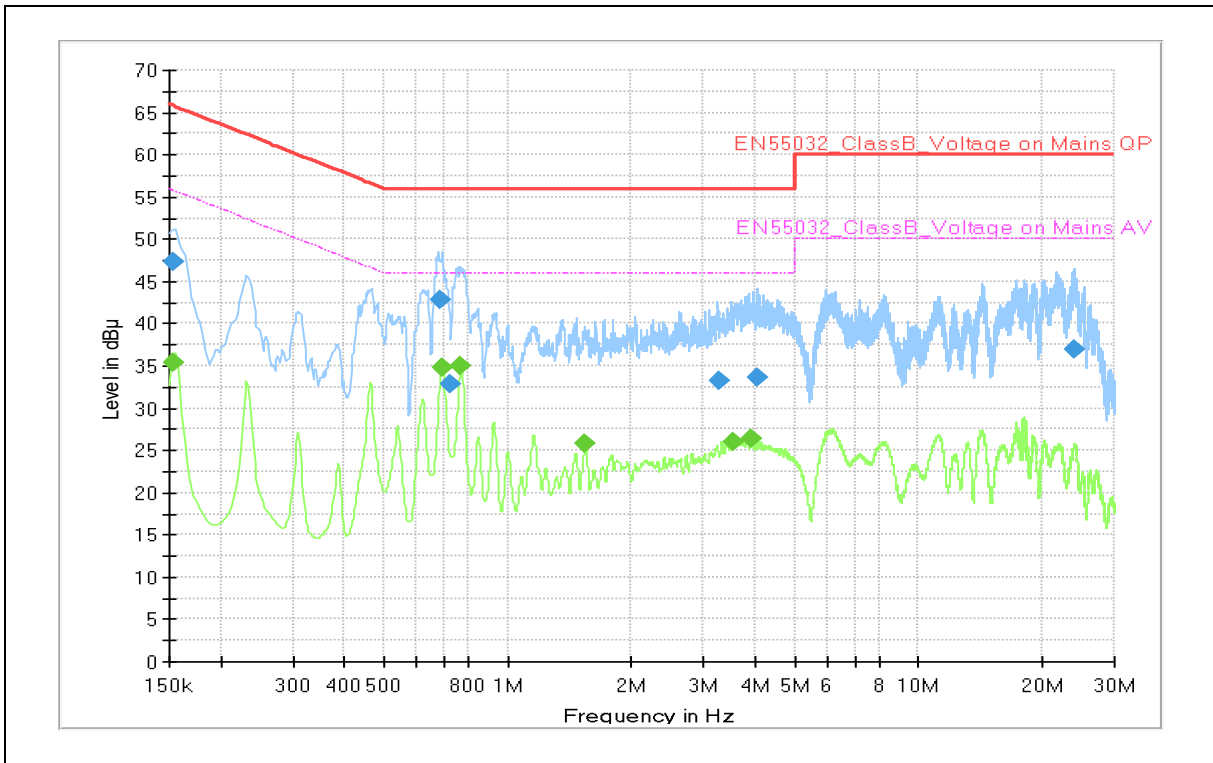
Note 1) Two graphs measured for both Live(L1) and Neutral(N) of the LISN are combined into one graph.

QP / CAV final measurement results table:

Frequency (MHz)	QP (dBµV)	CAV (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)
0.678	46.5	---	56.0	9.5	L1	10.2
0.680	---	41.2	46.0	4.8	L1	10.2
0.743	39.1	---	56.0	16.9	L1	10.1
0.752	---	36.1	46.0	9.9	L1	10.1
1.280	---	27.9	46.0	18.1	L1	10.0
2.101	33.7	---	56.0	22.3	L1	10.0
3.124	---	27.5	46.0	18.5	L1	10.0
3.513	33.4	---	56.0	22.6	N	9.9
3.664	---	26.4	46.0	19.6	L1	10.0
3.668	35.2	---	56.0	20.8	N	9.9
18.083	---	27.3	50.0	22.7	N	10.6
21.198	32.6	---	60.0	27.4	N	10.7

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 3: AC Mains



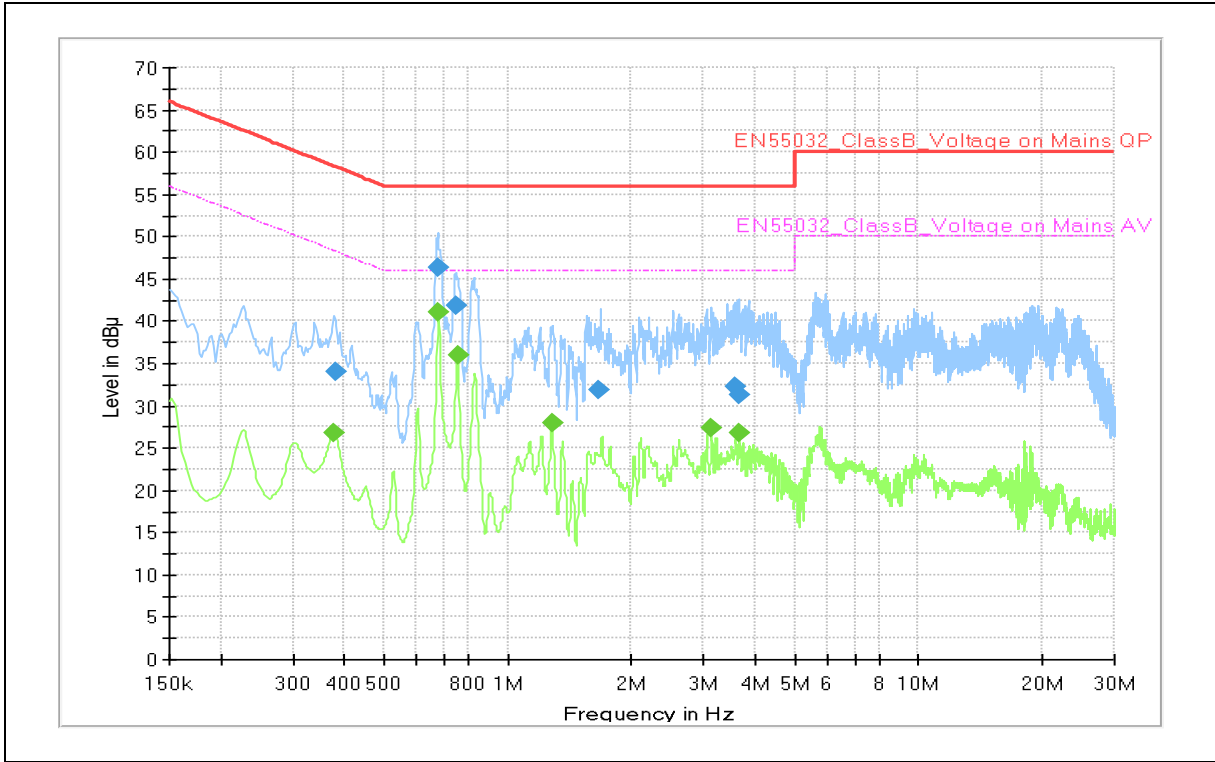
Note 1) Two graphs measured for both Live(L1) and Neutral(N) of the LISN are combined into one graph.

QP / CAV final measurement results table:

Frequency (MHz)	QP (dBµV)	CAV (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)
0.154	---	35.4	55.8	20.4	L1	9.9
0.154	47.3	---	65.8	18.5	N	9.9
0.686	42.9	---	56.0	13.1	L1	10.2
0.691	---	34.7	46.0	11.3	L1	10.1
0.722	32.9	---	56.0	23.1	N	10.0
0.770	---	35.1	46.0	10.9	L1	10.1
1.546	---	25.8	46.0	20.2	L1	10.0
3.262	33.3	---	56.0	22.7	L1	10.0
3.530	---	26.0	46.0	20.0	L1	10.0
3.919	---	26.3	46.0	19.7	L1	10.0
4.061	33.6	---	56.0	22.4	L1	10.0
24.043	37.0	---	60.0	23.0	N	10.7

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 4: AC Mains



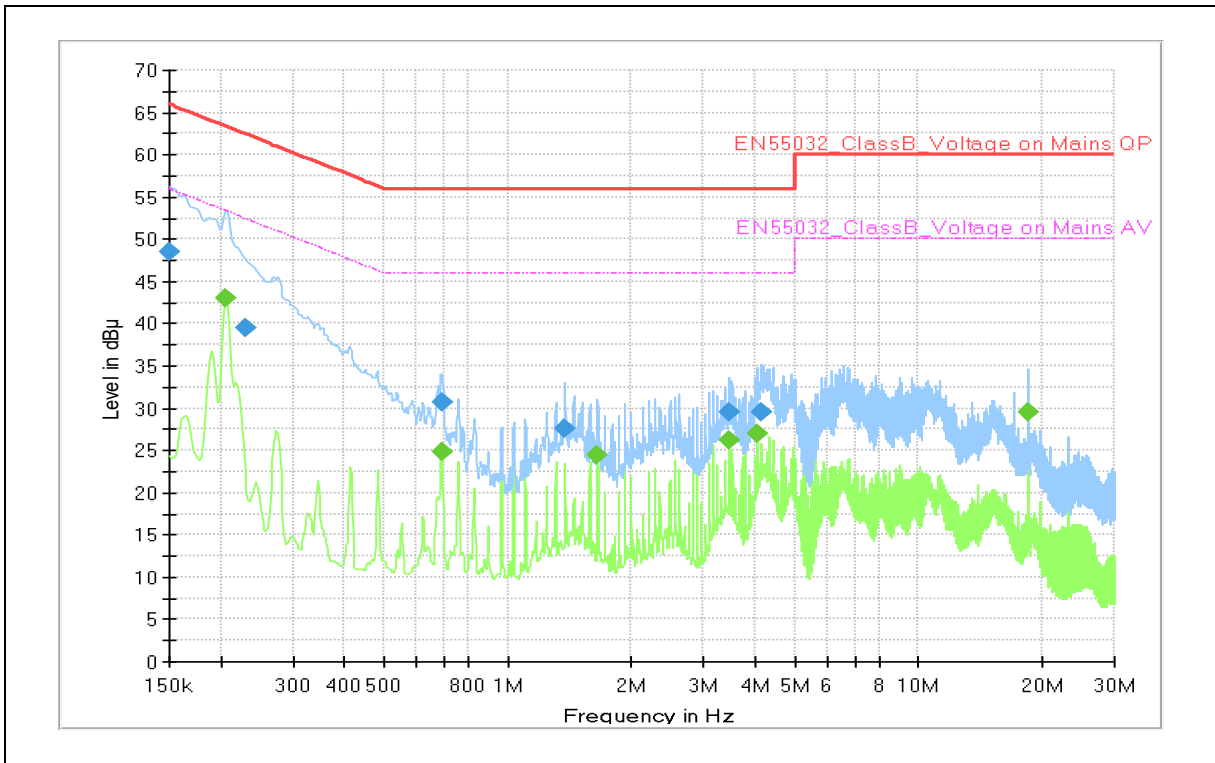
Note 1) Two graphs measured for both Live(L1) and Neutral(N) of the LISN are combined into one graph.

QP / CAV final measurement results table:

Frequency (MHz)	QP (dB μ V)	CAV (dB μ V)	Limit (dB μ V)	Margin (dB)	Line	Corr. (dB)
0.379	---	26.9	48.3	21.4	L1	10.2
0.380	34.1	---	58.3	24.2	N	10.1
0.676	46.4	---	56.0	9.6	L1	10.2
0.678	---	41.1	46.0	4.9	L1	10.2
0.749	41.9	---	56.0	14.1	L1	10.1
0.756	---	36.0	46.0	10.0	L1	10.1
1.283	---	27.9	46.0	18.1	L1	10.0
1.672	31.8	---	56.0	24.2	L1	10.0
3.137	---	27.4	46.0	18.6	L1	10.0
3.580	32.3	---	56.0	23.7	L1	10.0
3.641	31.3	---	56.0	24.7	L1	10.0
3.670	---	26.7	46.0	19.3	L1	10.0

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 5: AC Mains



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

QP / CAV final measurement results table:

Frequency (MHz)	QP (dBµV)	CAV (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)
0.150	48.5	---	66.0	17.5	N	9.7
0.205	---	43.1	53.4	10.3	L1	9.9
0.231	39.5	---	62.4	22.9	L1	9.7
0.689	---	24.8	46.0	21.2	N	9.9
0.689	30.7	---	56.0	25.3	N	9.9
1.378	27.5	---	56.0	28.5	N	9.7
1.654	---	24.5	46.0	21.5	N	9.8
3.448	---	26.1	46.0	19.9	N	9.7
3.448	29.5	---	56.0	26.5	N	9.7
4.069	---	26.9	46.0	19.1	N	9.7
4.134	29.6	---	56.0	26.4	L1	9.8
18.563	---	29.4	50.0	20.6	N	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 disturbance

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 Polarisation	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 operate 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 Polarisation	Resolution Bandwidth [MHz]	Video Bandwidth [MHz]	Turntable position
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 disturbance of Class B ITE 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

Results checked manually; and points close to the limit line were re-measured.

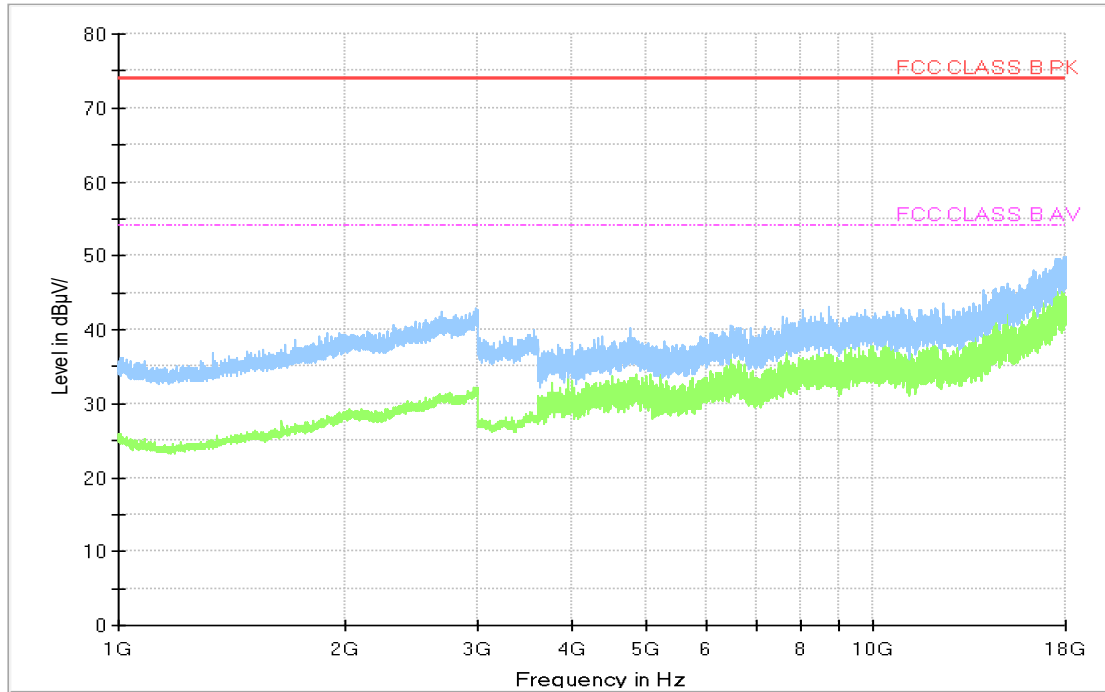
5.2.1 Test instrumentation

EMC No.	Test Instrument	Model name	Manufacturer	Serial No.	Calibration	
					Date	Interval (Month)
E5I-022	Signal Generator	SMB100A	R&S	175856	2018-05-11	12
E5I-016	EMI Test Receiver	ESU8	R&S	100482	2018-06-08	12
E5I-021	EMI Test Receiver	ESU40	R&S	100376	2018-01-31	12
E5I-149	Horn Antenna	HF907	R&S	102525	2018-06-15	24
E5I-039	Signal Conditioning Unit	SCU-18	R&S	10211	2018-01-22	12
E5I-120	BiLog Antenna	CBL6112D	TESEQ	36997	2018-04-23	24
E5I-072	BiLog Antenna	CBL6112D	TESEQ	36009	2018-04-23	24
E5I-073	Preamplifier	310N	SONOMA	332016	2018-05-09	12
E5I-074	Preamplifier	310N	SONOMA	332017	2018-05-09	12
-	Test software	EP7RE	TOYO	Ver 5.8.2	-	-
-	Test software	EMC32	R&S	Ver 9.25.00	-	-

5.2.2 Temperature and humidity condition

Test date	2018-12-06, 2018-12-19	Test engineer	Soo-Joon Kim
Climate condition	Ambient temperature	(22.7 ~ 22.9) °C	Limit (15.0 to 35.0) °C
	Relative humidity	(47.5 ~ 48.4) % R.H.	Limit (25.0 to 75.0) % R.H.
	Atmospheric pressure	(101.5 ~ 101.8) kPa	Limit (86.0 to 106.0) kPa
Test place	Semi-Anechoic Chamber (SAC4)		

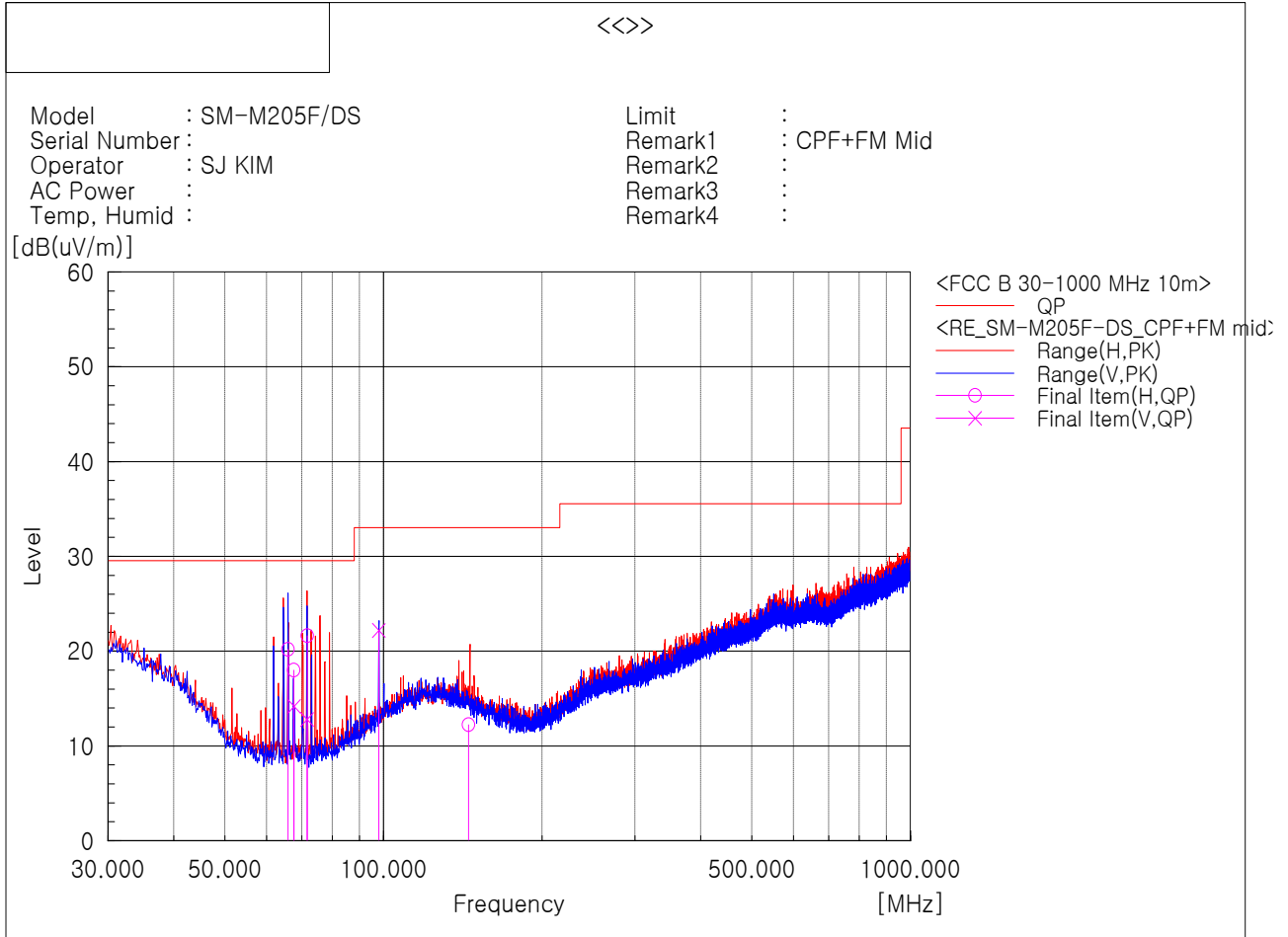
- Frequencies above 1 GHz



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]	System
1	65.890	H	39.4	-19.2	20.2	29.5	9.3	397	142	1
2	67.538	H	37.2	-19.2	18.0	29.5	11.5	397	142	1
3	67.612	V	32.8	-18.6	14.2	29.5	15.3	400	37	2
4	71.628	V	31.4	-18.6	12.8	29.5	16.7	142	115	2
5	71.675	H	40.7	-19.1	21.6	29.5	7.9	400	116	1
6	97.976	V	36.4	-14.2	22.2	33.0	10.8	100	331	2
7	144.906	H	25.8	-13.6	12.2	33.0	20.8	395	347	1

* Radiated emissions (Rx frequency 97.976 MHz) from the transceiver shall be ignored

Note1) Receiving antenna polarization : Horizontal, Vertical

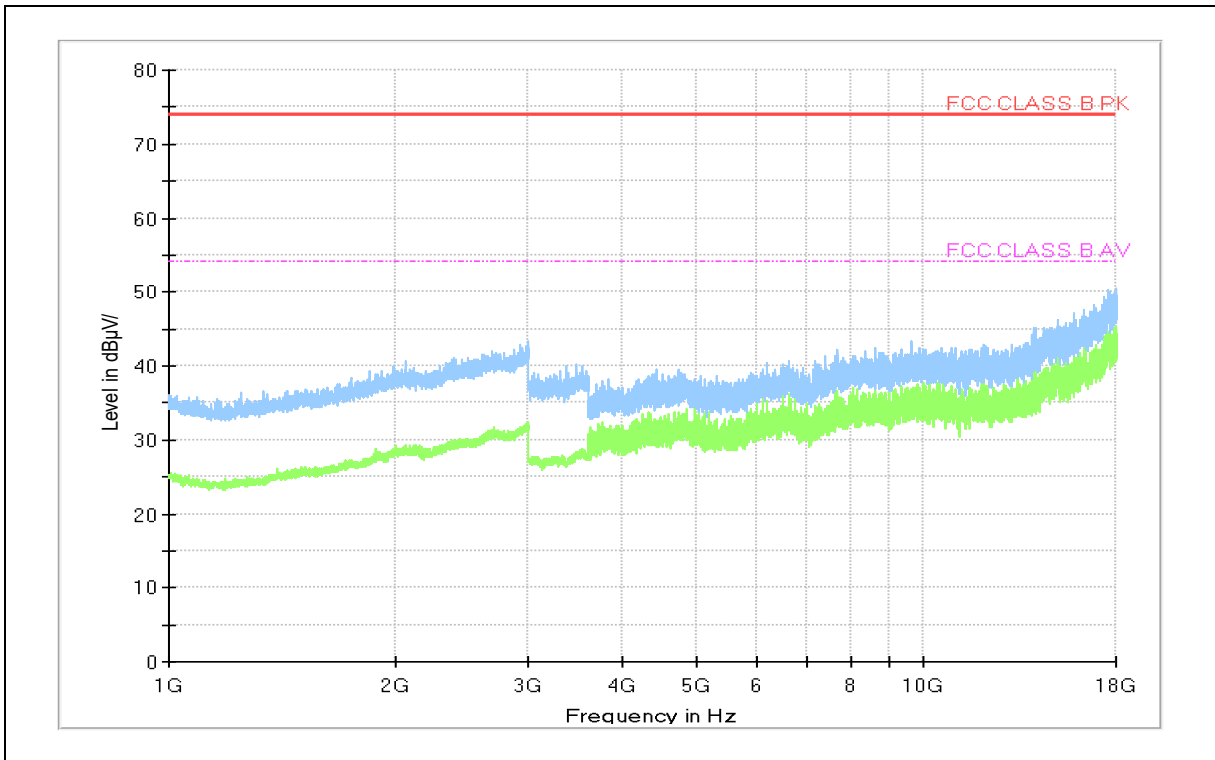
Test Distance : 10 m, Antenna Height : 1 to 4 meters

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

Margin (QP) = Limit - Level (QP)

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

- Frequencies above 1 GHz



Note 1) Receiving antenna polarization : Horizontal, Vertical

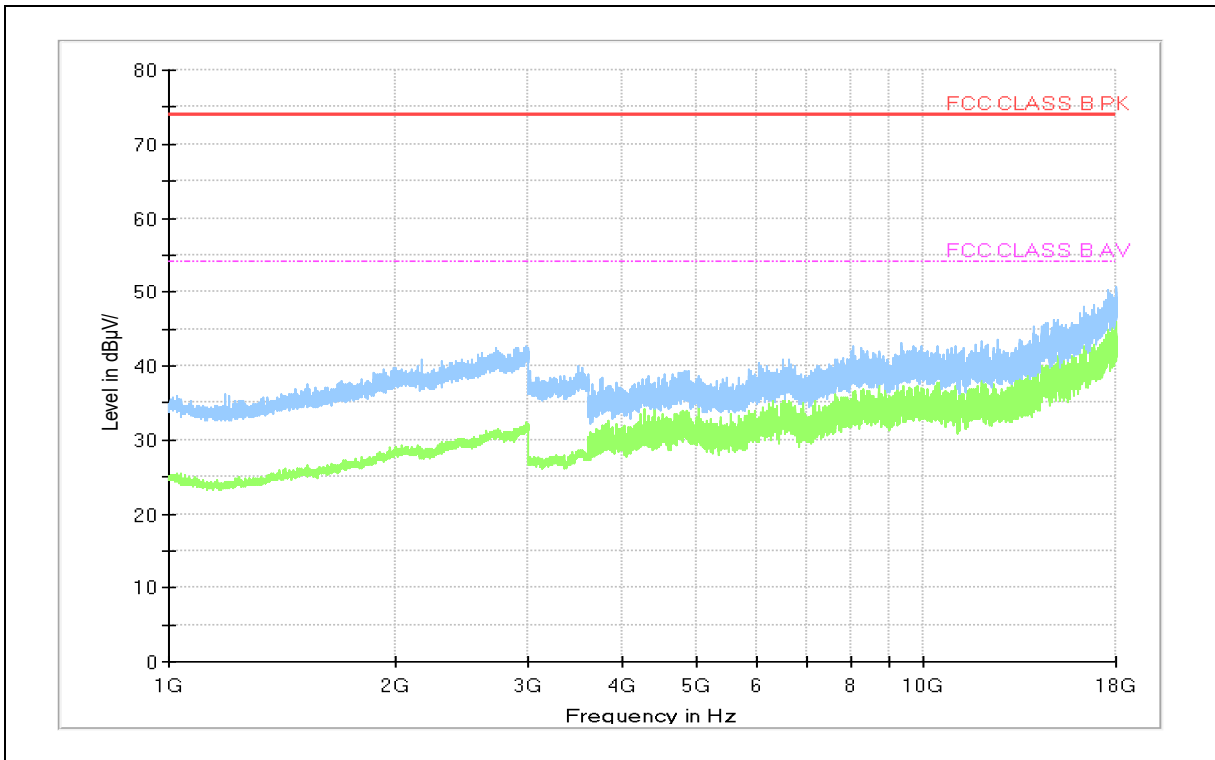
Test Distance : 3 m, Antenna Height : 1 to 4 meters

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

- Frequencies above 1 GHz



Note 1) Receiving antenna polarization : Horizontal, Vertical

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

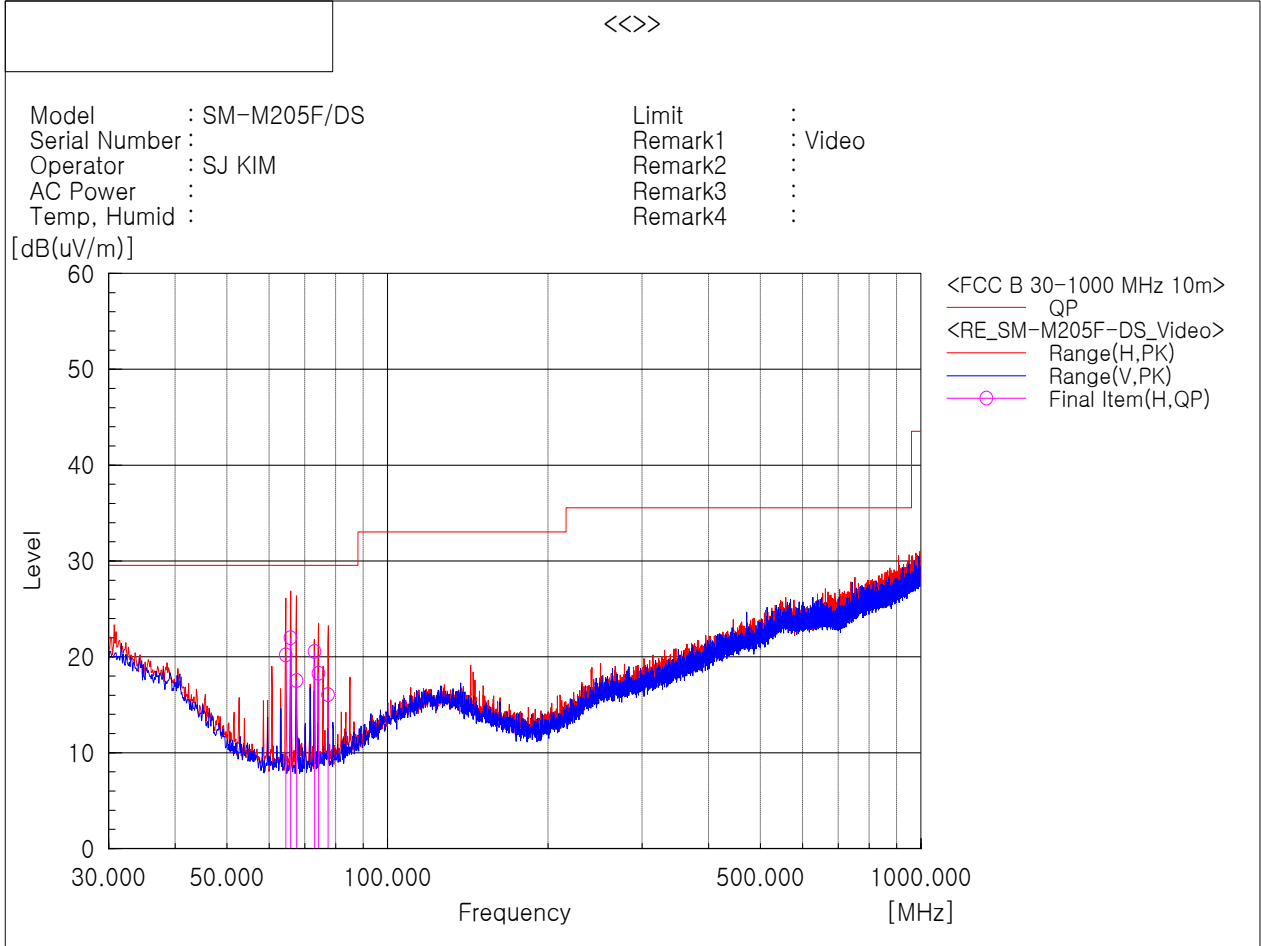
Level (PK and/or CAV) = Reading (PK and/or CAV) + Corr. (Antenna Factor + Cable Loss - Amp. Gain)

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

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

Operating Mode 4

- Frequencies below 1 GHz



Final Result

No.	Frequency (P) [MHz]	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]	System
1	64.470	H 39.4	-19.2	20.2	29.5	9.3	275	132	1
2	65.823	H 41.2	-19.2	22.0	29.5	7.5	292	126	1
3	67.523	H 36.7	-19.2	17.5	29.5	12.0	399	318	1
4	72.955	H 39.6	-19.0	20.6	29.5	8.9	400	121	1
5	74.288	H 37.2	-18.9	18.3	29.5	11.2	400	126	1
6	77.337	H 34.5	-18.5	16.0	29.5	13.5	400	326	1

Note1) Receiving antenna polarization : Horizontal, Vertical

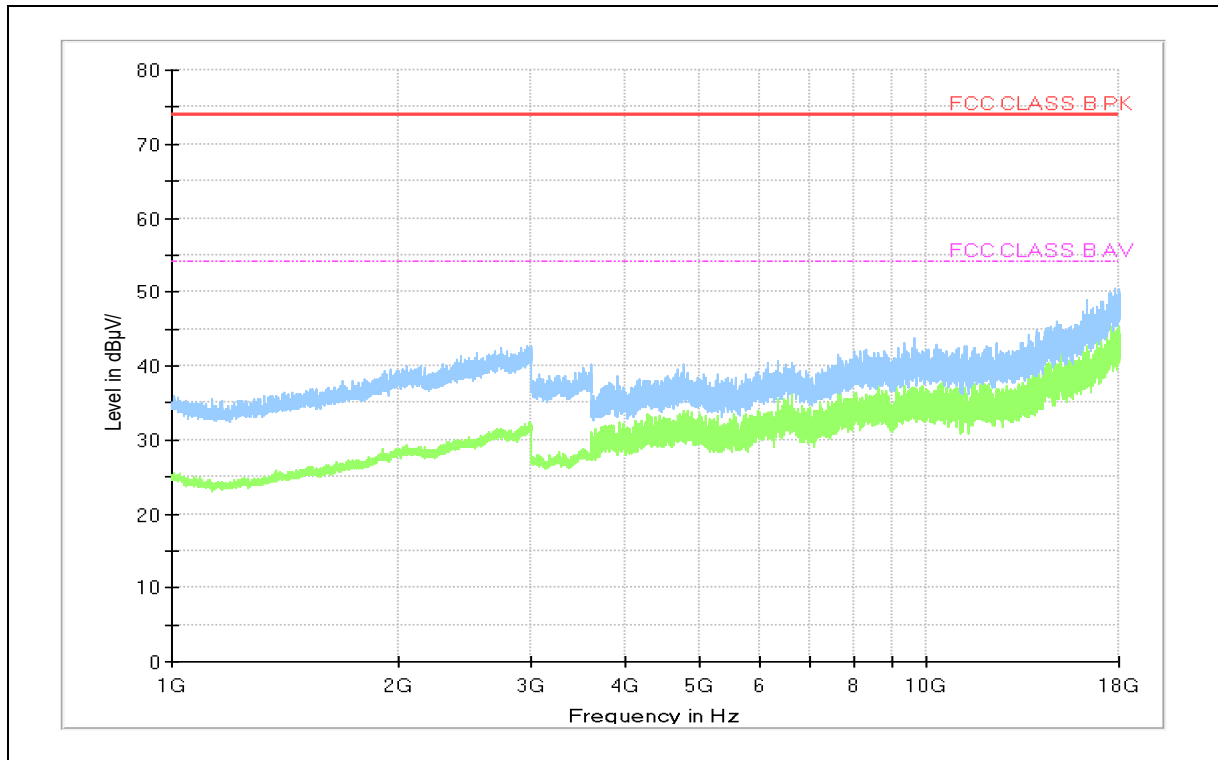
Test Distance : 10 m, Antenna Height : 1 to 4 meters

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

Margin (QP) = Limit - Level (QP)

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

- Frequencies above 1 GHz



Note 1) Receiving antenna polarization : Horizontal, Vertical

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

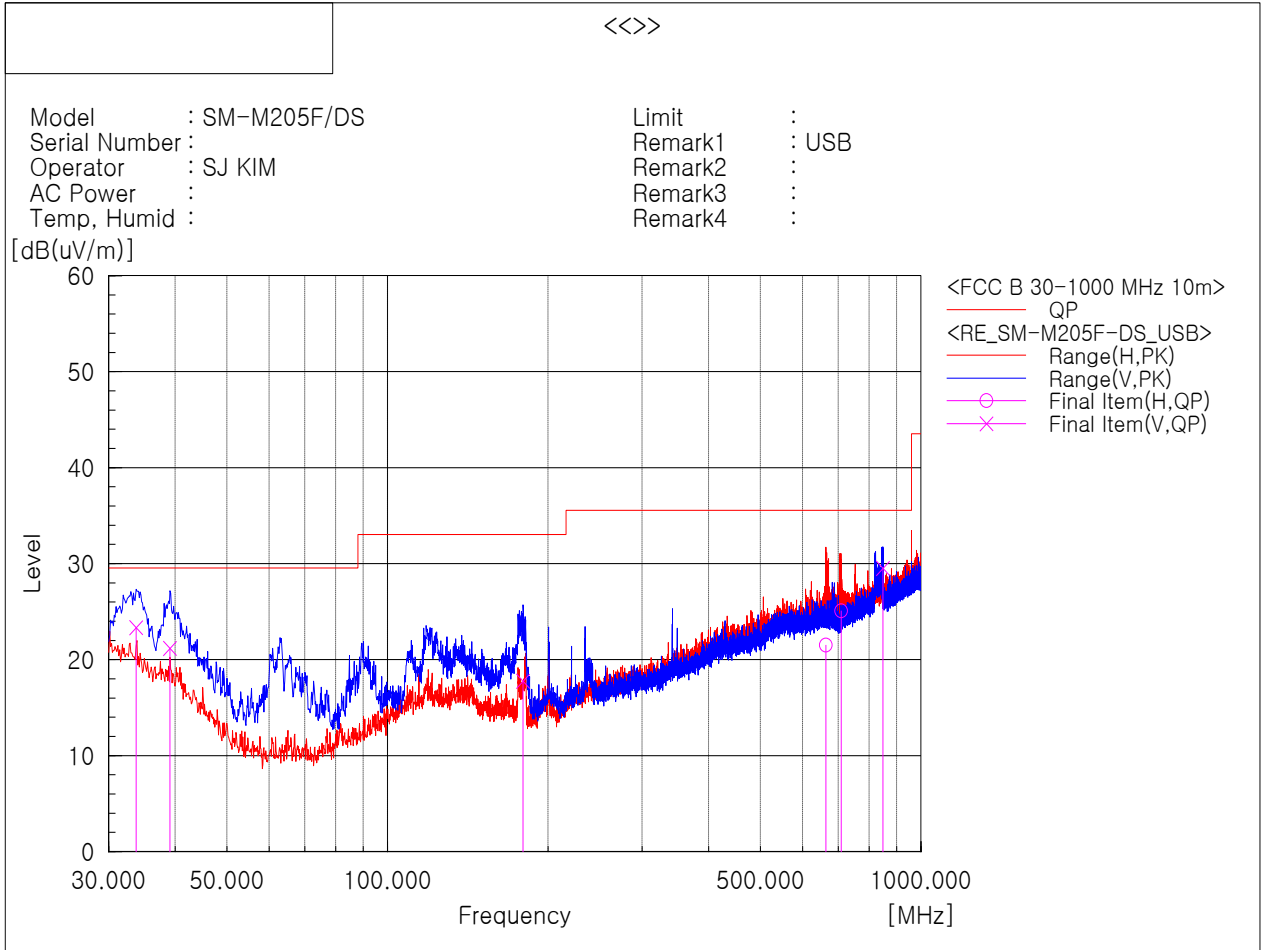
Level (PK and/or CAV) = Reading (PK and/or CAV) + Corr. (Antenna Factor + Cable Loss - Amp. Gain)

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

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

Operating Mode 5

- 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]	System
1	33.759	V	31.8	-8.5	23.3	29.5	6.2	100	343	2
2	39.094	V	31.8	-10.6	21.2	29.5	8.3	151	268	2
3	179.501	V	32.4	-14.6	17.8	33.0	15.2	107	325	2
4	663.653	H	25.0	-3.5	21.5	35.5	14.0	102	0	1
5	708.452	H	28.2	-3.1	25.1	35.5	10.4	114	296	1
6	848.195	V	30.3	-0.8	29.5	35.5	6.0	308	165	2

Note1) Receiving antenna polarization : Horizontal, Vertical

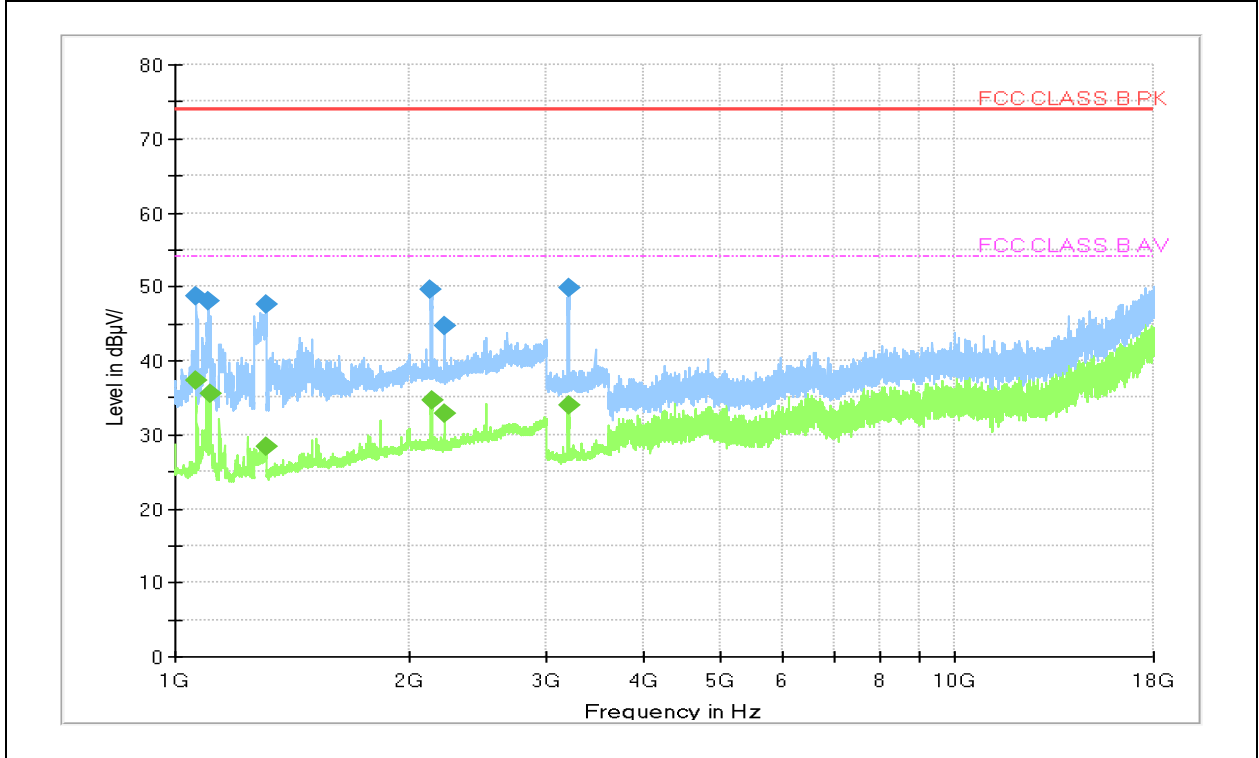
Test Distance : 10 m, Antenna Height : 1 to 4 meters

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

Margin (QP) = Limit - Level (QP)

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

- Frequencies above 1 GHz



Frequency (MHz)	PK (dBµV/m)	CAV (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1 062.000	48.7	---	74.0	25.3	100.0	V	336.0	6.5
1 062.800	---	37.4	54.0	16.6	100.0	V	336.0	6.5
1 104.800	48.0	---	74.0	26.0	100.0	H	286.0	6.5
1 108.000	---	35.4	54.0	18.6	100.0	V	204.0	6.5
1 305.600	---	28.5	54.0	25.5	100.0	V	154.0	7.6
1 308.800	47.6	---	74.0	26.4	100.0	V	154.0	7.6
2 125.600	49.6	---	74.0	24.4	100.0	H	205.0	12.9
2 131.600	---	34.7	54.0	19.3	100.0	H	202.0	12.9
2 214.000	---	33.0	54.0	21.0	100.0	H	172.0	12.7
2 214.000	44.8	---	74.0	29.2	100.0	H	172.0	12.7
3 196.500	---	33.9	54.0	20.1	100.0	H	230.0	0.8
3 197.500	49.7	---	74.0	24.3	100.0	H	230.0	0.8

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