

EMC TEST REPORT

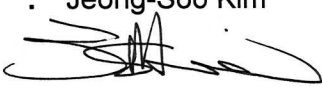
Project No.	LBE20182006	Issue No.	0
Applicant	Name of organization	Samsung Electronics Co., Ltd.	
	Address	(Maetan-dong) 129, Samsung-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16677, Republic of Korea	
	Date of application	November 15, 2018	
EUT	Type of device	☒ All other Receivers subject to part15 ☒ Class B Personal Computers and peripherals ☒ Other Class B digital devices and peripherals ☐ FM Broadcast Receiver	
	Equipment authorization	☒ Certification ☐ Supplier's Declaration of Conformity	
	FCC ID	A3LSMG973F	
	Kind of product	Mobile Phone	
	Model No.	SM-G973F/DS	
	Variant Model No.	Refer to clause 4.6	
	Manufacturer	Samsung Electronics Vietnam Co., Ltd. KCN Yen Phong Industrial Zone 1, Yen Trung, Yen Phong, Bac Ninh, 2300325764, VNM	
Applied Standards		47 CFR Part 15, Subpart B, Class B / ANSI C63.4-2014	
Test Period		November 15, 2018 ~ November 29, 2018	
Issue date		December 5, 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 : Jeong-Soo Kim 		Reviewed by : Young-Hun 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.			
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 RSE test report no.

No.	Remark
4788725460-E1	The cellular receiver mode refers to the radiated spurious emissions test report.

2. Summary of test results

1.1 Emission

The EUT has been tested according to the following specifications:

Applied	Test type	Applied standard	Result
☒	Conducted Disturbance (Mains port)	47 CFR Part 15 Subpart B / ANSI C63.4-2014 (Class B)	Complied
☒	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-G973F/DS	-	SAMSUNG	A3LSMG973F
B	Battery	EB-BG973ABU	-	SAMSUNG	-
C	Headset	EO-IG955	-	SAMSUNG	-
D	Data Cable	EP-DG970BBE	-	SAMSUNG	-
		JCA141	BW2K1709000770	J5CREATE	-
E	Micro SD Card	64GB	-	SAMSUNG	-
F	Travel Adapter	EP-TA200	R37KB5B0C91SE3	SAMSUNG	-
G	Desk-Top Computer	DB700S1A	XX009NEB100164N	SAMSUNG	-
		DM300S	A20100622	SAMSUNG	-
H	LCD TV Monitor	S22E200N	0AZSHLLG900906T	SAMSUNG	-
		EM23TS	NC26H1KSB01550B	SAMSUNG	-
I	DP Monitor	27UD88	711NTQD8H004	LG	
J	Power Supply	LCAP31	EH8NN629490055062	LG	
K	Mouse	SML-210PB	TAKD125024 V	SAMSUNG	-
			TAKD124911 M	SAMSUNG	-
		MOARUO	MS-S5-AR01-01	SAMSUNG	-
L	Keyboard	SDM8500P	8M001183	SAMSUNG	-
			8M001033	SAMSUNG	-
M	Gigabit Switch 8	J9794A	CN33FQ703Q	HP	-
			CN33FQ71XK	HP	-
N	Power Supply	EADP-15DC A	DIKD1245096741	Delta	-
			DIKD1245096576	Delta	-
O	OTG Gender	EE-UG970	-	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)
2	Camera (front) + Charging (w/ TA)
3	Video + Audio playback from internal memory data + Charging (w/ TA)
4	USB Data Communication with PC (from external memory data)

4.2.2 Radiated Emission

No.	Operating mode
1	Camera (rear) + Charging (w/ TA)
2	Camera (front) + USB OTG (w/ USB gender: mouse)
3	Video + Audio playback from internal memory data + Display out (w/ Direct DP Cable)
4	USB Data Communication with PC (from external memory data)

4.3 Details of Sampling

Customer selected, single unit.

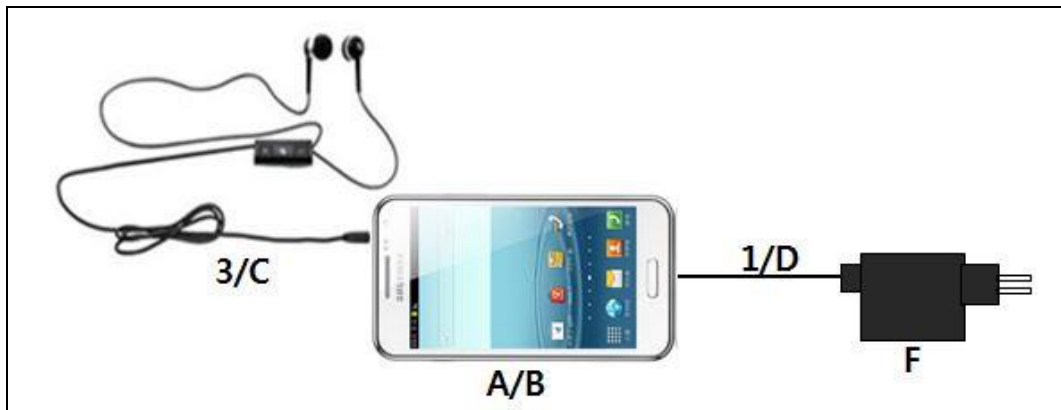
4.4 Used cable description

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:

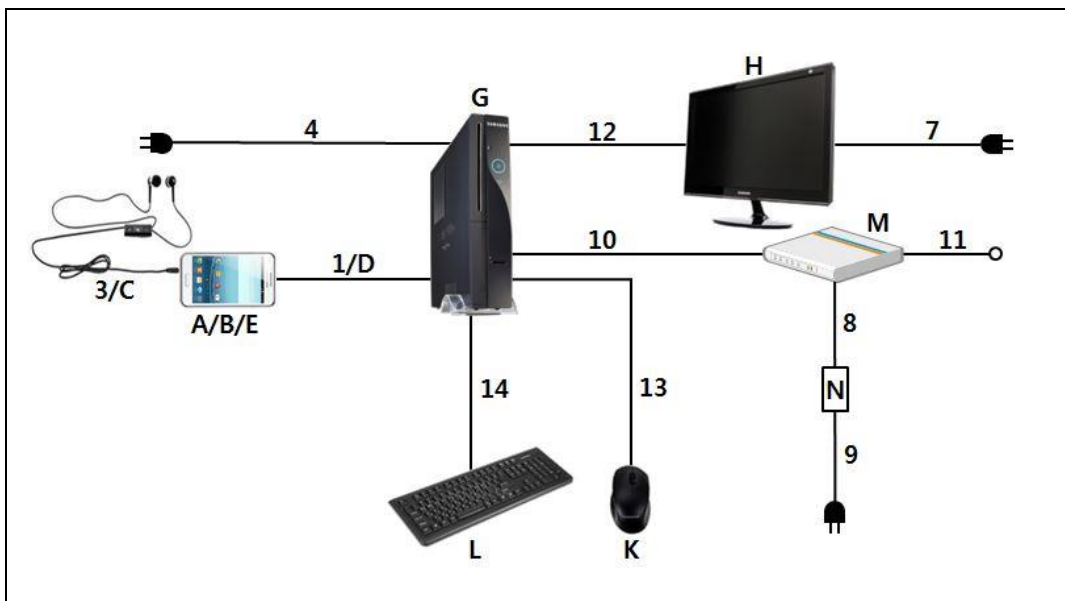
No.	Connected cable	Length [m]	Shielded [Y/N]	Note
1	Data Cable	1.0	Yes	From EUT to Desk-Top Computer
2	DP Cable	1.1	Yes	From EUT to DP Monitor
3	Headset	1.2	No	For EUT
4	Power	1.8	No	For Desk-Top Computer
5	Power	1.2	No	From DP Monitor to Power Supply
6	Power	1.6	No	For Power Supply
7	Power	1.8	No	For LCD TV Monitor
8	Power	1.8	No	From Gigabit Switch 8 to Power Supply
9	Power	1.8	No	For Power Supply
10	LAN	1.5	No	From Desk-Top Computer to Gigabit Switch 8
11	LAN	1.5	No	From Gigabit Switch 8 to Local Area Network
12	RGB	1.8	Yes	From Desk-Top Computer to LCD TV Monitor
13	PS/2	1.5	Yes	From Desk-Top Computer to Mouse
14	PS/2	1.5	Yes	From Desk-Top Computer to Keyboard
15	USB	1.5	Yes	For USB OTG gender

4.5 Test arrangement

4.5.1 Conducted Emission

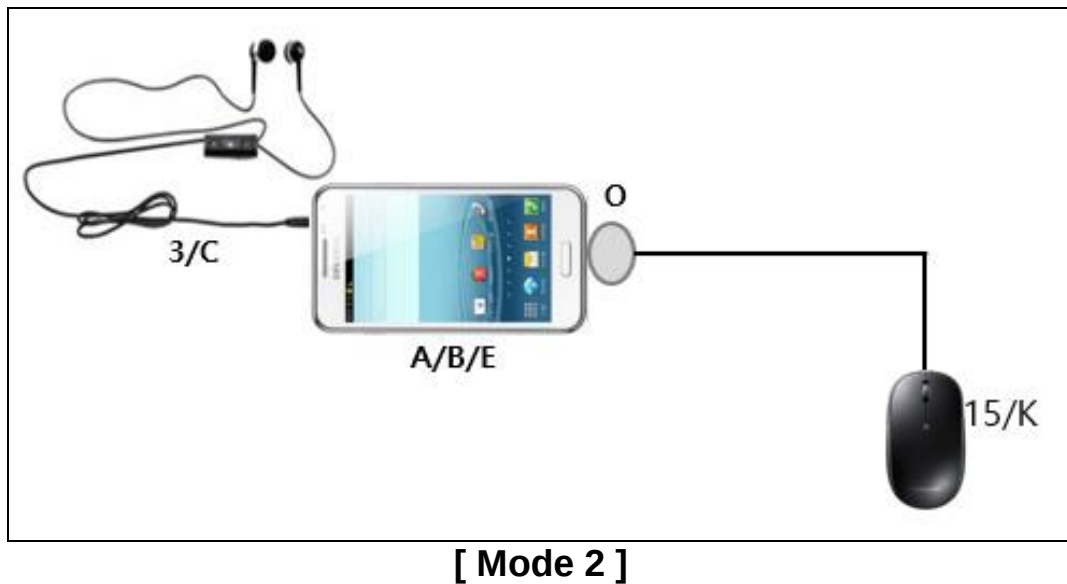
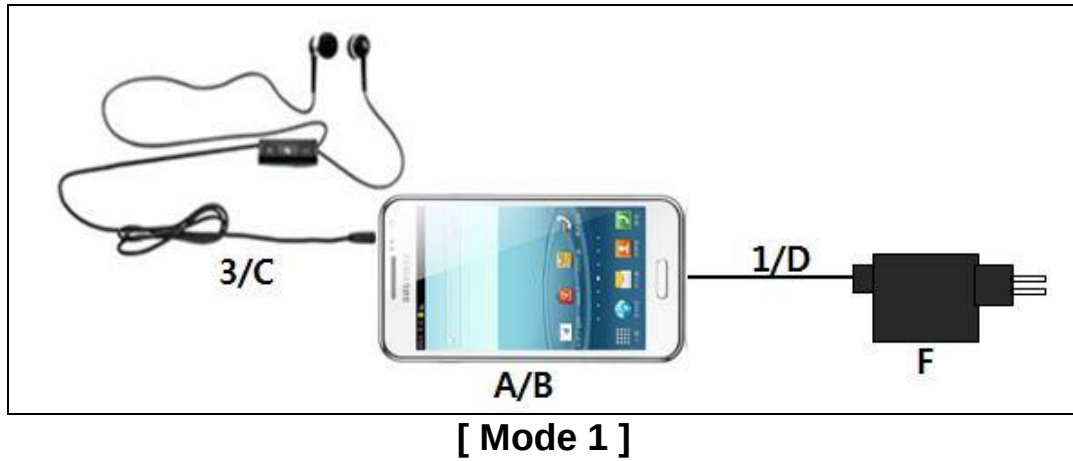


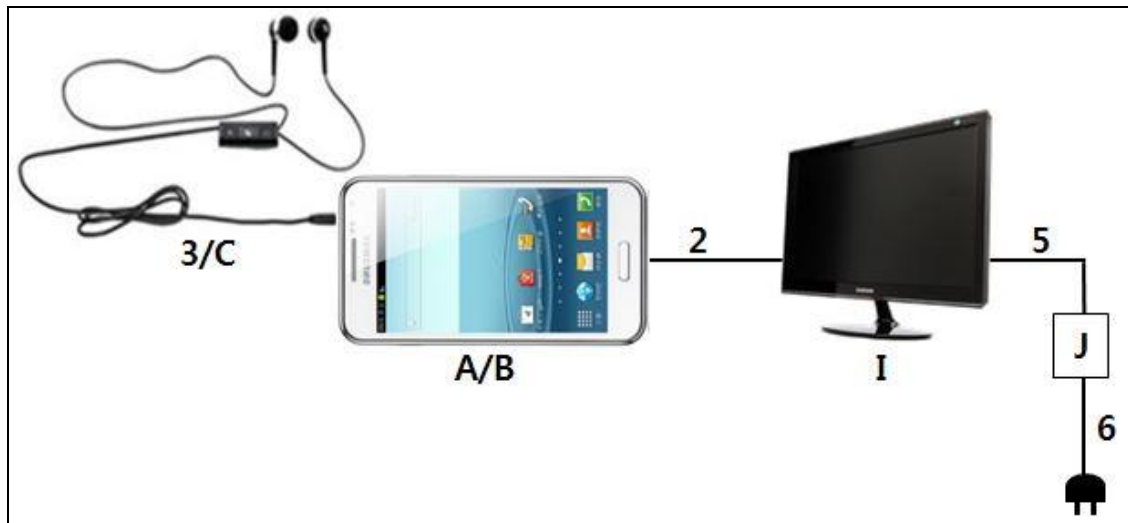
[Mode 1 - 3]



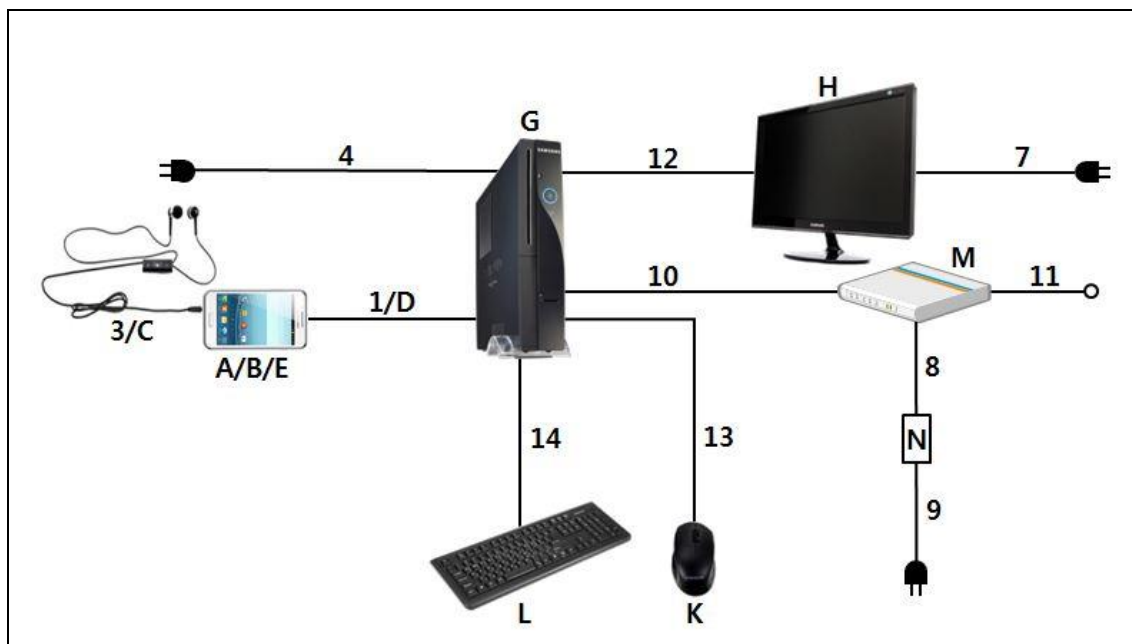
[Mode 4]

4.5.2 Radiated Emission





[Mode 3]



[Mode 4]

4.6 EUT Description

The EUT is a bar type Mobile Phone which can operate on GSM 850/900/1800/1900, WCDMA FDD1/2/4/5/8, LTE FDD1/2/3/4/5/7/8/12/13/17/18/19/20/25/26/28/32/66, TDD38/39/40/41 and incorporate Bluetooth, ANT+, Wi-Fi, Camera, MP3 and MP4 player, GNSS, NFC, Wireless Charging, MST, DP, OTG

4.6.1 The variant models

- SM-G973F, SM-G973X

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

The video and music were played on monitor through Display Out function using direct DP Cable or DP converter.

The EUT was connected to USB mouse using USB OTG gender.

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

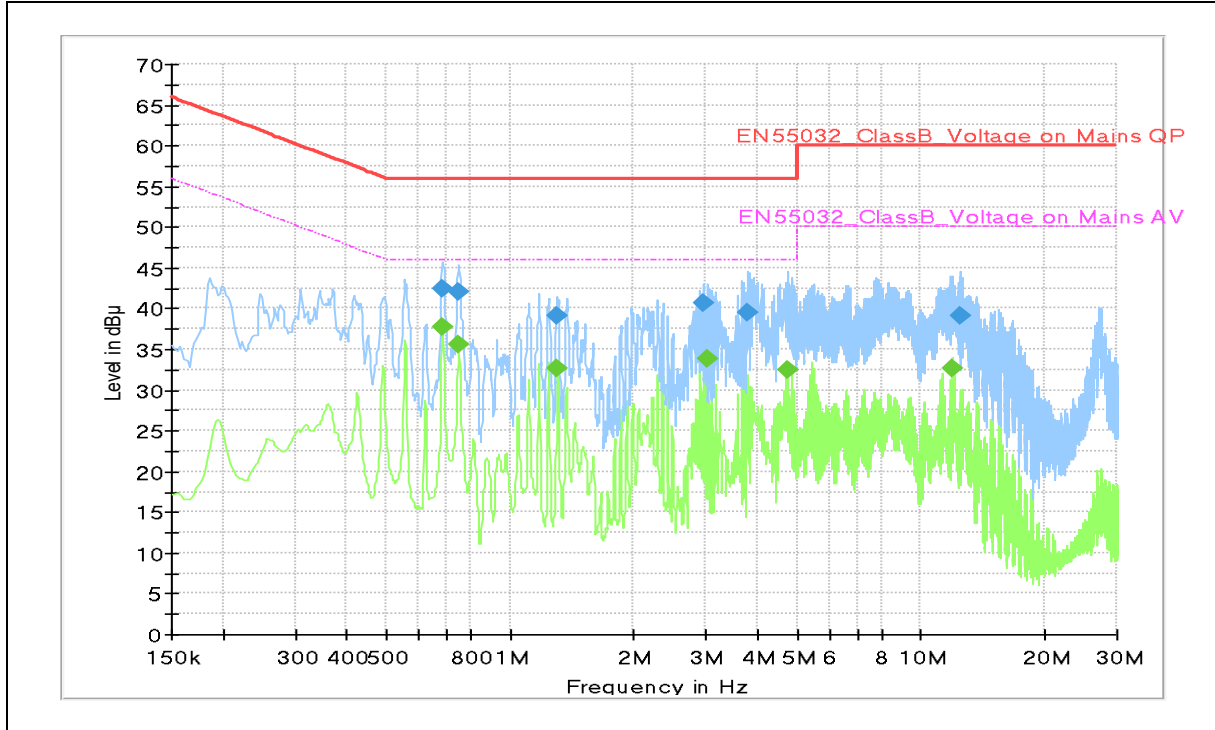
EMC No.	Test Instrument	Model name	Manufacturer	Serial No.	Calibration	
					Date	Interval (Month)
E5I-007	Universal Radio Communicator	CMW500	R&S	132729	2018-03-28	12
E5I-043	LISN	ENV216	R&S	101630	2018-08-17	12
E5I-017	EMI Test Receiver	ESU8	R&S	100483	2018-01-12	12
E5I-127	LISN	ENV216	R&S	102061	2018-07-23	12
-	Test software	EMC32	R&S	Ver 9.26.01	-	-

5.1.2 Temperature and humidity condition

Test date	2018-11-29	Test engineer	Jeong-Soo Kim
Climate condition	Ambient temperature	(22.1 ~ 22.5) °C	Limit (15.0 to 35.0) °C
	Relative humidity	(46.3 ~ 46.9) % R.H.	Limit (25.0 to 75.0) % R.H.
	Atmospheric pressure	(101.5 ~ 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

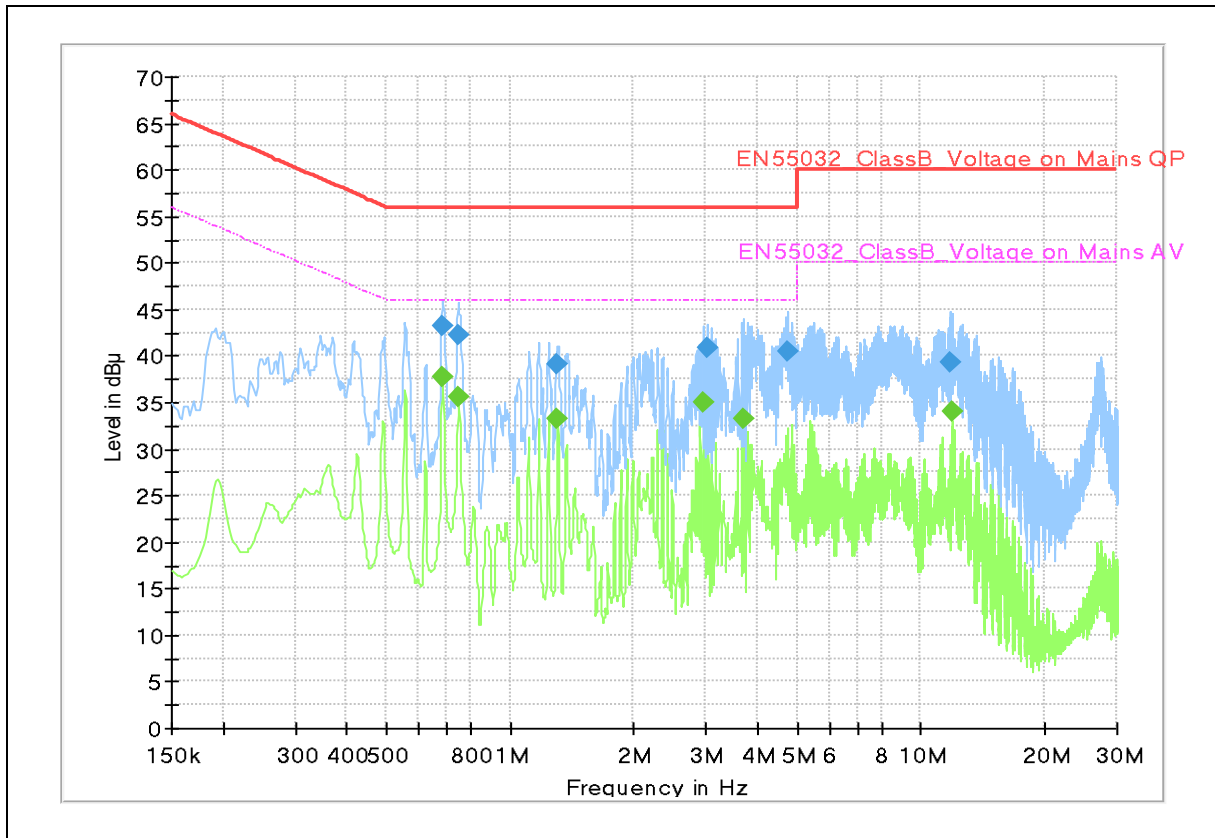


Note 1) Two graphs measured for both Live(L1) and Neutral(N) of the LISN are combined into one graph.

QP / CAV final measurement results table:

Frequency (MHz)	QP (dBμV)	CAV (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)
0.682	42.3	---	56.0	13.7	L1	10.2
0.684	---	37.8	46.0	8.2	L1	10.2
0.747	42.0	---	56.0	14.0	L1	10.1
0.749	---	35.6	46.0	10.4	L1	10.1
1.303	39.2	---	56.0	16.8	L1	10.0
1.307	---	32.6	46.0	13.4	L1	10.0
2.968	40.6	---	56.0	15.4	L1	10.0
3.035	---	33.8	46.0	12.2	L1	10.0
3.780	39.5	---	56.0	16.5	L1	10.0
4.759	---	32.4	46.0	13.6	L1	10.0
11.934	---	32.7	50.0	17.3	L1	10.2
12.485	39.1	---	60.0	20.9	L1	10.3

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:

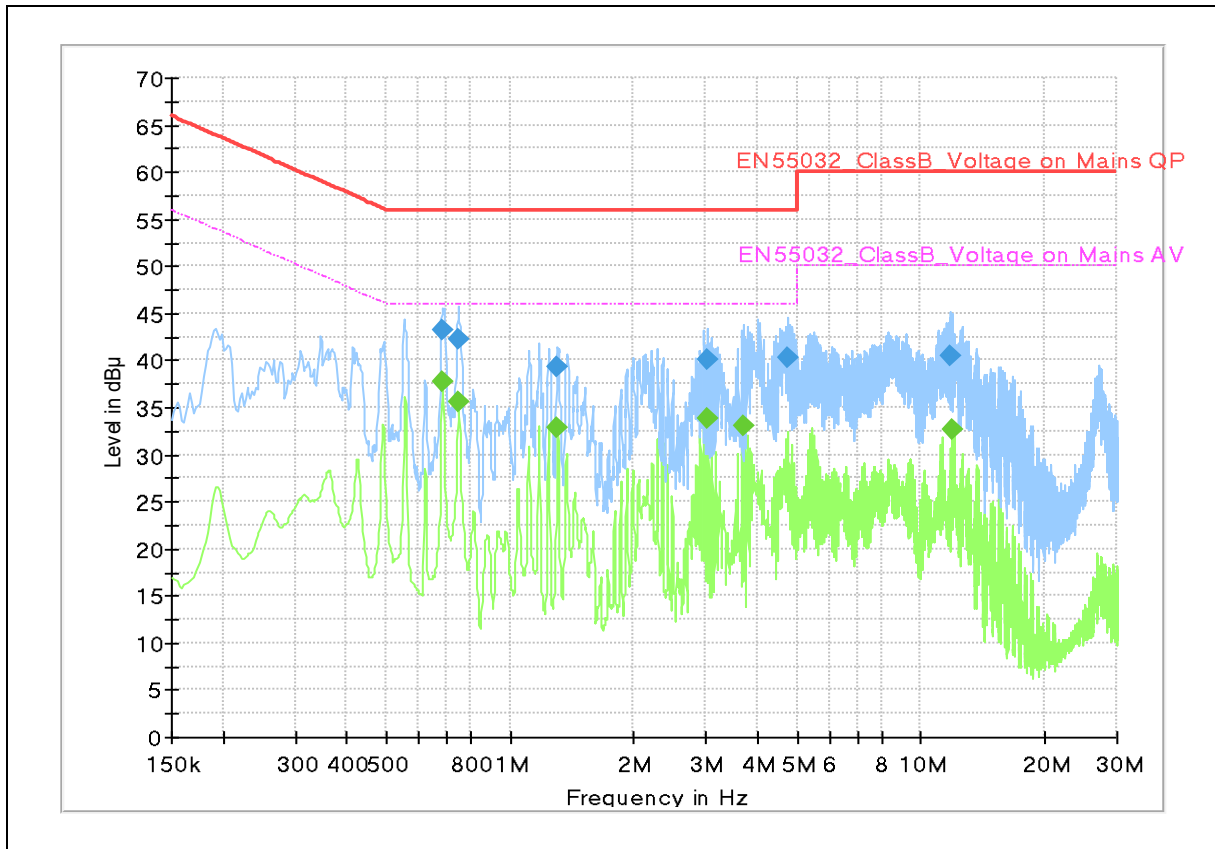
Frequency (MHz)	QP (dBμV)	CAV (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)
0.684	---	37.8	46.0	8.2	L1	10.2
0.684	43.3	---	56.0	12.7	L1	10.2
0.749	---	35.7	46.0	10.3	L1	10.1
0.749	42.3	---	56.0	13.7	L1	10.1
1.305	---	33.3	46.0	12.7	L1	10.0
1.307	39.2	---	56.0	16.8	L1	10.0
2.968	---	35.0	46.0	11.0	L1	10.0
3.033	40.9	---	56.0	15.1	L1	10.0
3.717	---	33.2	46.0	12.8	L1	10.0
4.759	40.5	---	56.0	15.5	L1	10.0
11.799	39.4	---	60.0	20.6	L1	10.2
11.936	---	34.0	50.0	16.0	L1	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 3: AC Mains



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

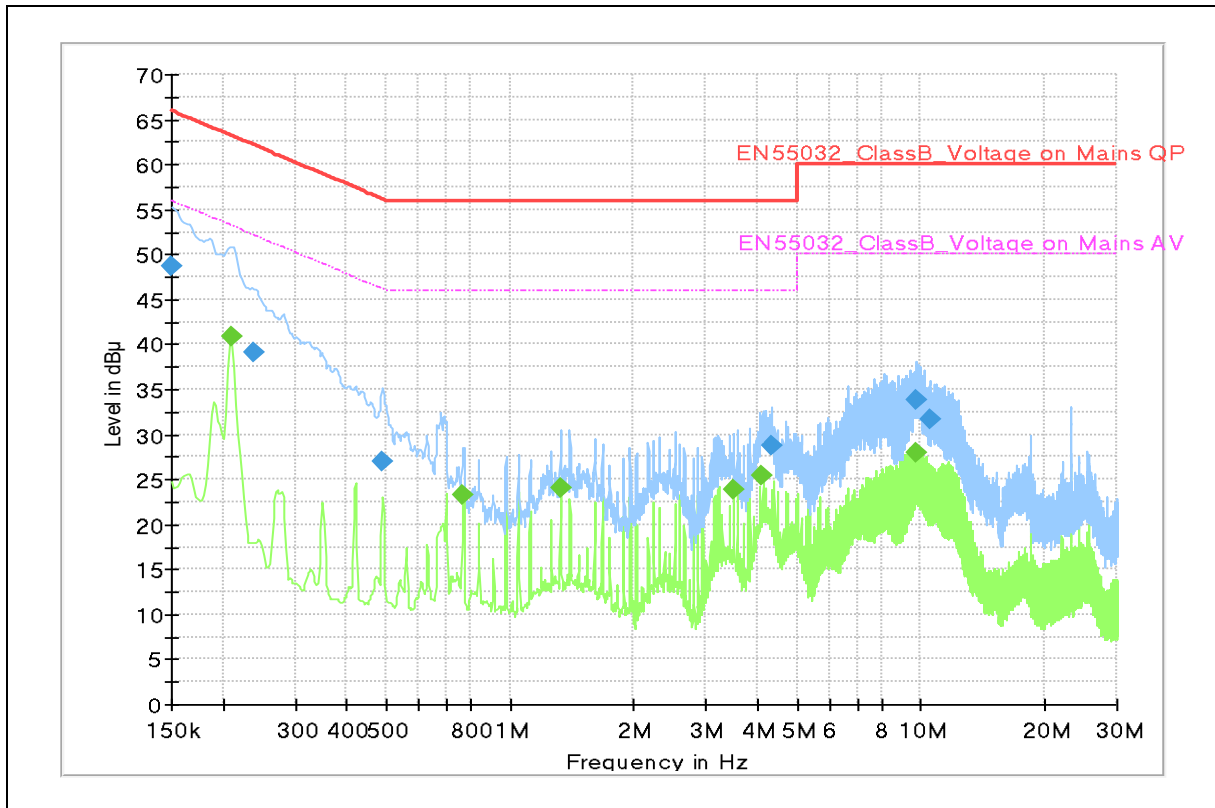
QP / CAV final measurement results table:

Frequency (MHz)	QP (dBμV)	CAV (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)
0.684500	---	37.7	46.0	8.3	L1	10.2
0.684500	43.3	---	56.0	12.7	L1	10.2
0.749750	---	35.6	46.0	10.4	L1	10.1
0.749750	42.3	---	56.0	13.7	L1	10.1
1.305500	39.3	---	56.0	16.7	L1	10.0
1.305500	---	32.9	46.0	13.1	L1	10.0
3.035250	40.1	---	56.0	16.0	L1	10.0
3.035250	---	33.8	46.0	12.2	L1	10.0
3.717500	---	33.0	46.0	13.0	L1	10.0
4.759250	40.3	---	56.0	15.7	L1	10.0
11.802250	40.5	---	60.0	19.6	L1	10.2
11.932250	---	32.7	50.0	17.3	N	10.3

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 (dBμV)	CAV (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)
0.150	48.6	---	66.0	17.4	N	9.9
0.209	---	40.8	53.2	12.4	L1	10.0
0.237	39.1	---	62.2	23.1	L1	9.9
0.488	27.0	---	56.2	29.2	N	10.2
0.767	---	23.2	46.0	22.8	L1	10.1
1.324	---	24.0	46.0	22.0	N	9.9
3.482	---	23.9	46.0	22.1	N	9.9
4.110	---	25.4	46.0	20.6	L1	10.0
4.327	28.7	---	56.0	27.3	L1	10.0
9.769	33.8	---	60.0	26.2	N	10.2
9.775	---	27.9	50.0	22.1	L1	10.1
10.485	31.6	---	60.0	28.4	N	10.3

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-020	EMI Test Receiver	ESU40	R&S	100375	2018-08-21	12
E5I-018	EMI Test Receiver	ESU8	R&S	100484	2018-05-23	12
E5I-036	Horn Antenna	HF907	R&S	100507	2018-06-15	24
E5I-040	Signal Conditioning Unit	SCU-18	R&S	10210	2018-04-06	12
E5I-037	Wide Band Horn Antenna	WBH 18-40K	R&S	11201	2017-10-13	24
E5I-042	Signal Conditioning Unit	SCU-40A	R&S	10004	2018-09-05	12
E5I-070	BiLog Antenna	CBL6112D	TESEQ	35383	2018-10-12	24
E5I-121	BiLog Antenna	CBL6112D	TESEQ	36999	2018-10-12	24
E5I-094	Preamplifier	310N	SONOMA	282363	2018-01-22	12
E5I-093	Preamplifier	310N	SONOMA	273122	2018-01-22	12
-	Test software	EP7RE	TOYO	Ver 5.8.2	-	-
-	Test software	EMC32	R&S	Ver 9.25.00	-	-

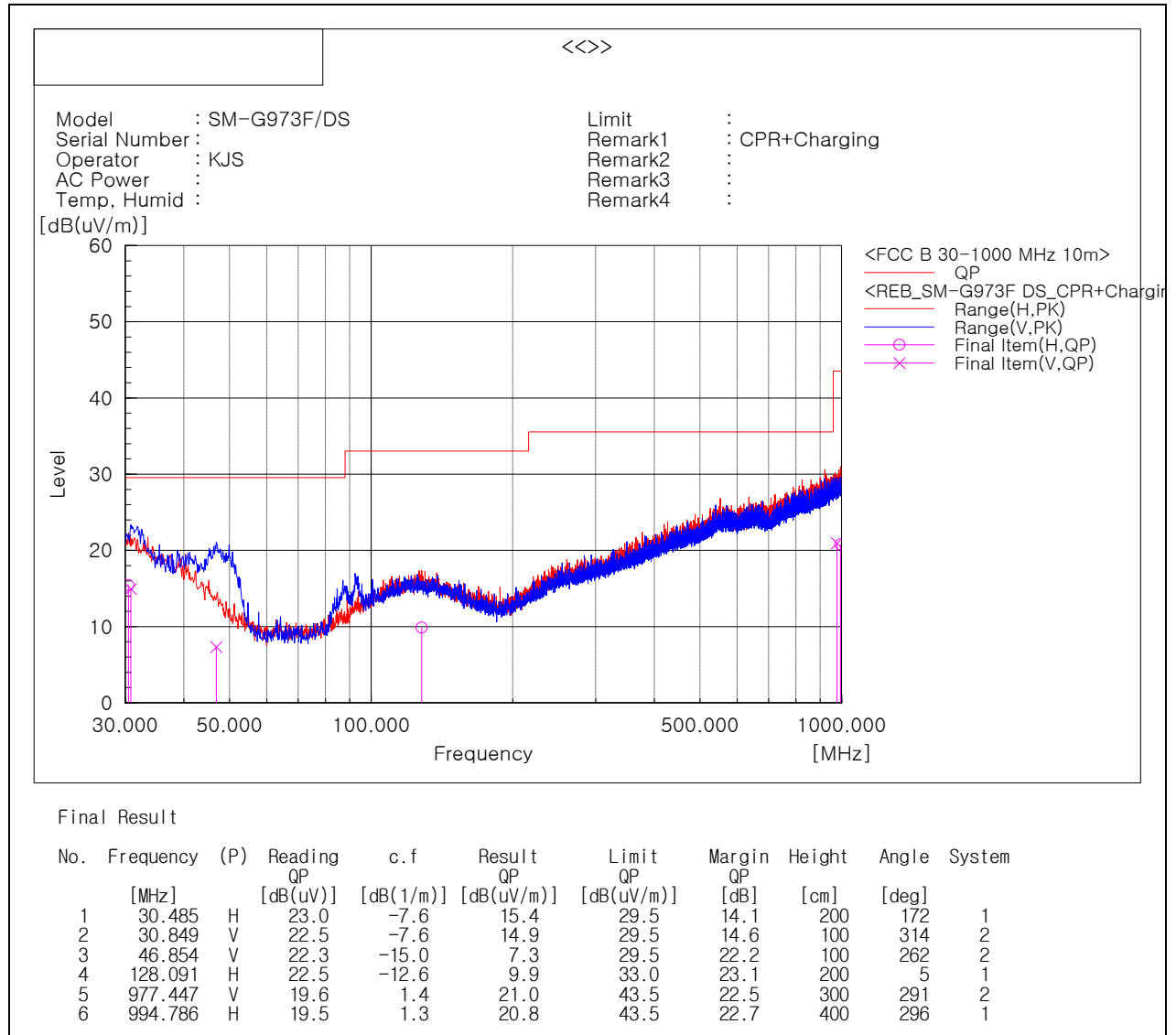
5.2.2 Temperature and humidity condition

Test date	2018-11-15, 2018-11-21	Test engineer	Jeong-Soo Kim
Climate condition	Ambient temperature	(23.0 ~ 23.8) °C	Limit (15.0 to 35.0) °C
	Relative humidity	(44.9 ~ 45.6) % R.H.	Limit (25.0 to 75.0) % R.H.
	Atmospheric pressure	(101.4~ 102.1) 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

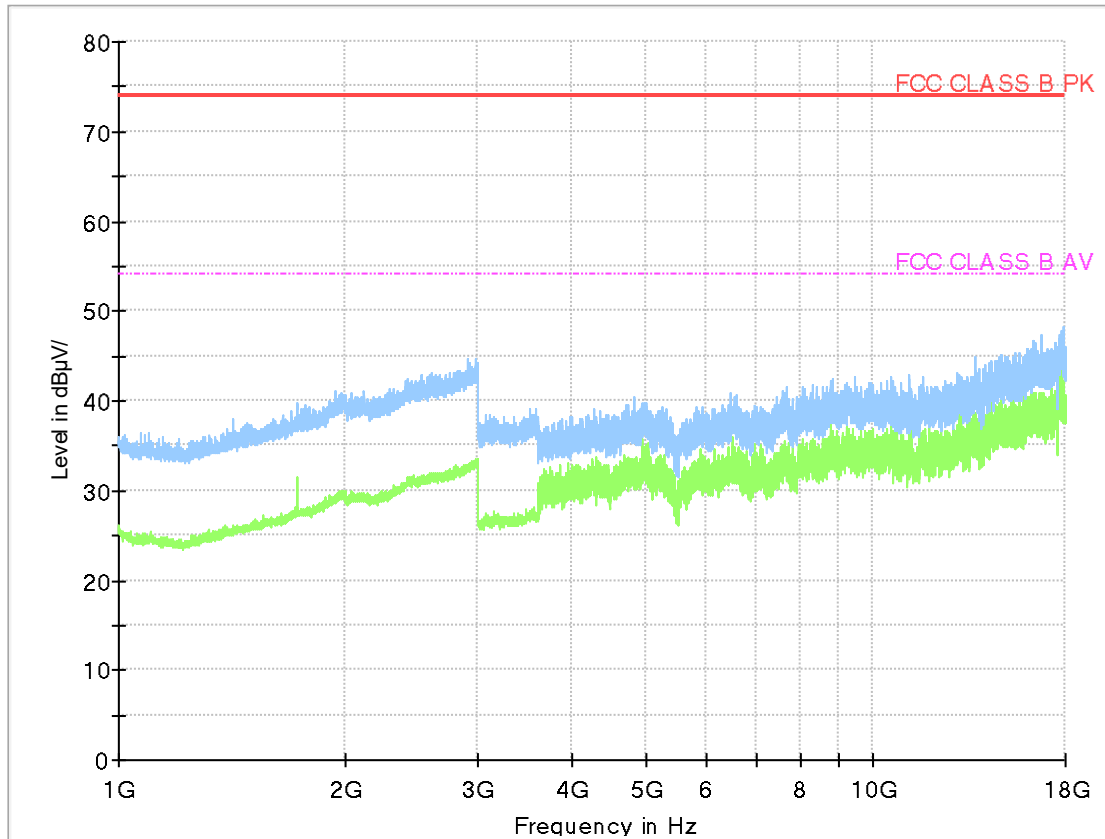
Test Distance : 10 m, Antenna Height : 1 to 4 meters

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

Margin (QP) = Limit - Level (QP)

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

- Frequencies above 1 GHz



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

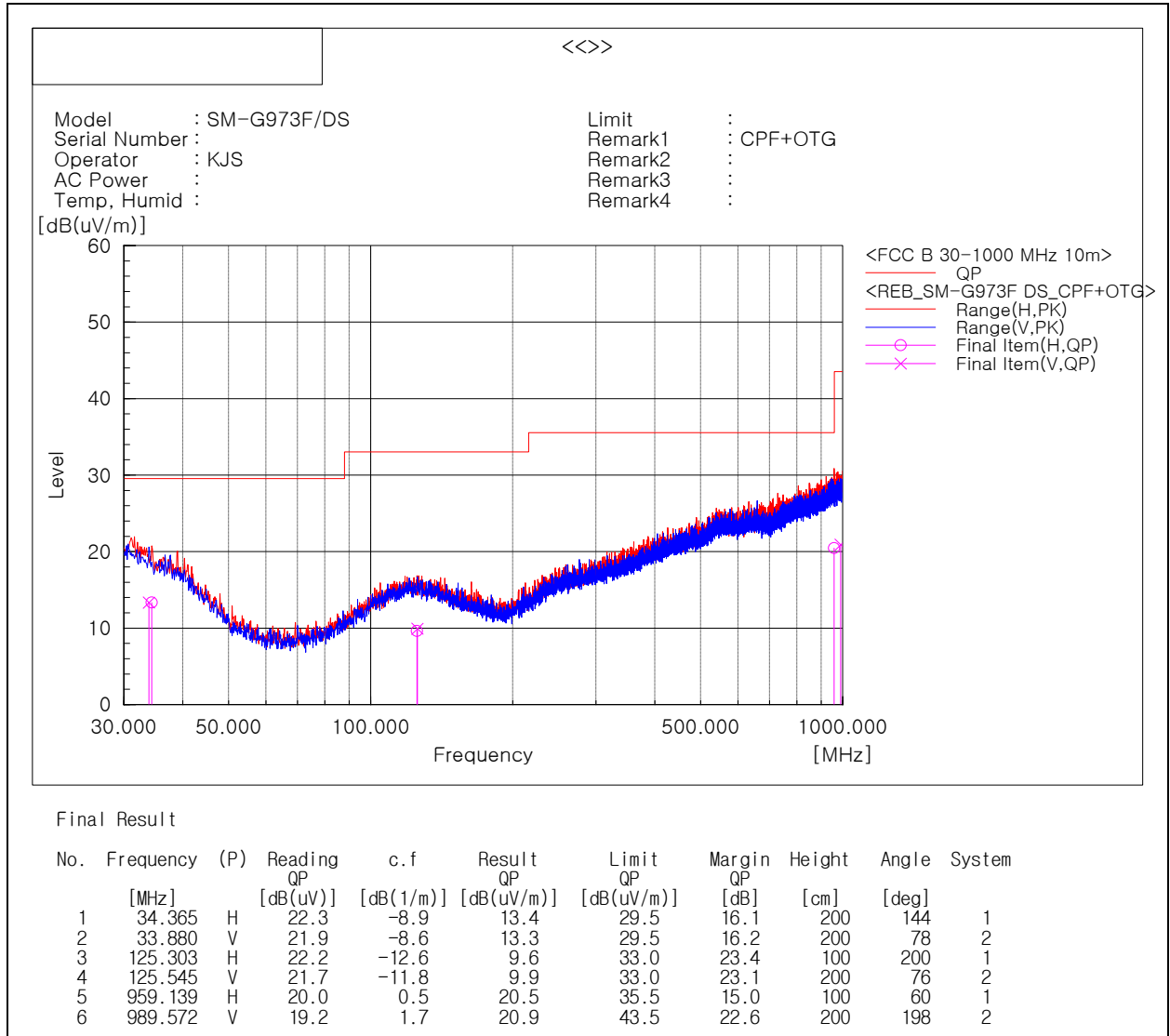
Note 2) Receiving antenna polarization : Horizontal, Vertical

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**

Note1) Receiving antenna polarization : Horizontal, Vertical

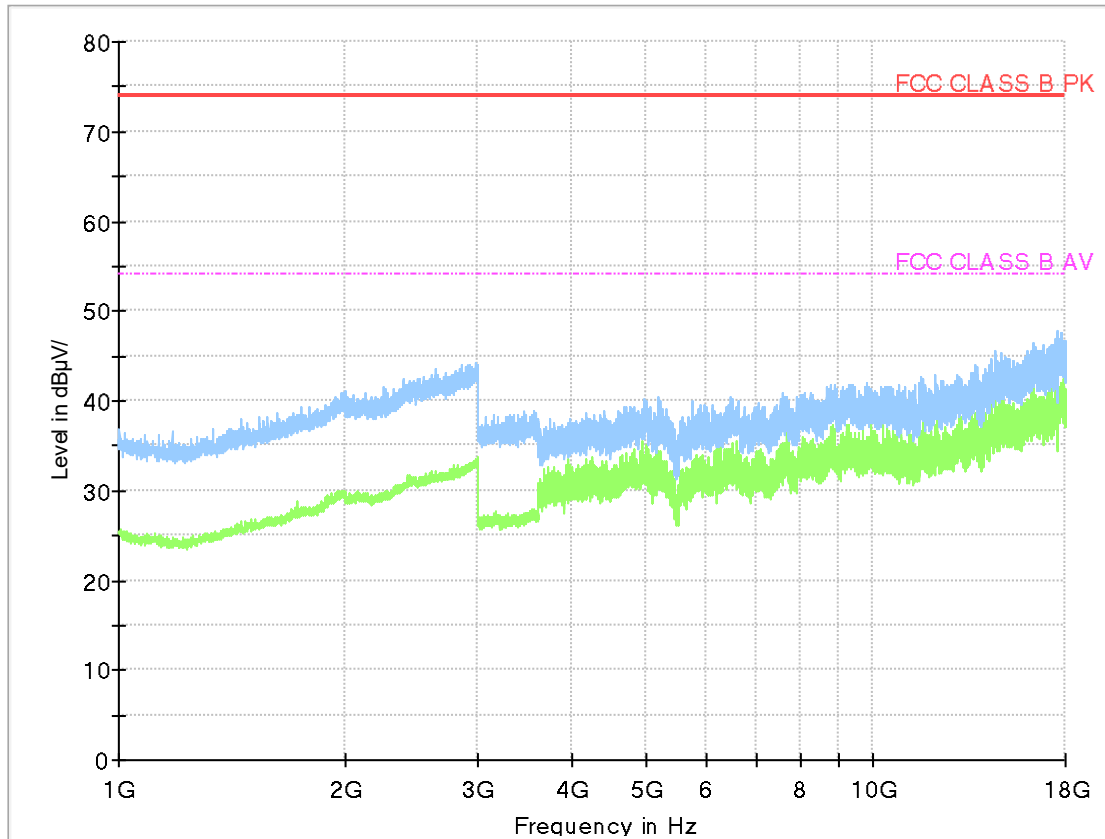
Test Distance : 10 m, Antenna Height : 1 to 4 meters

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

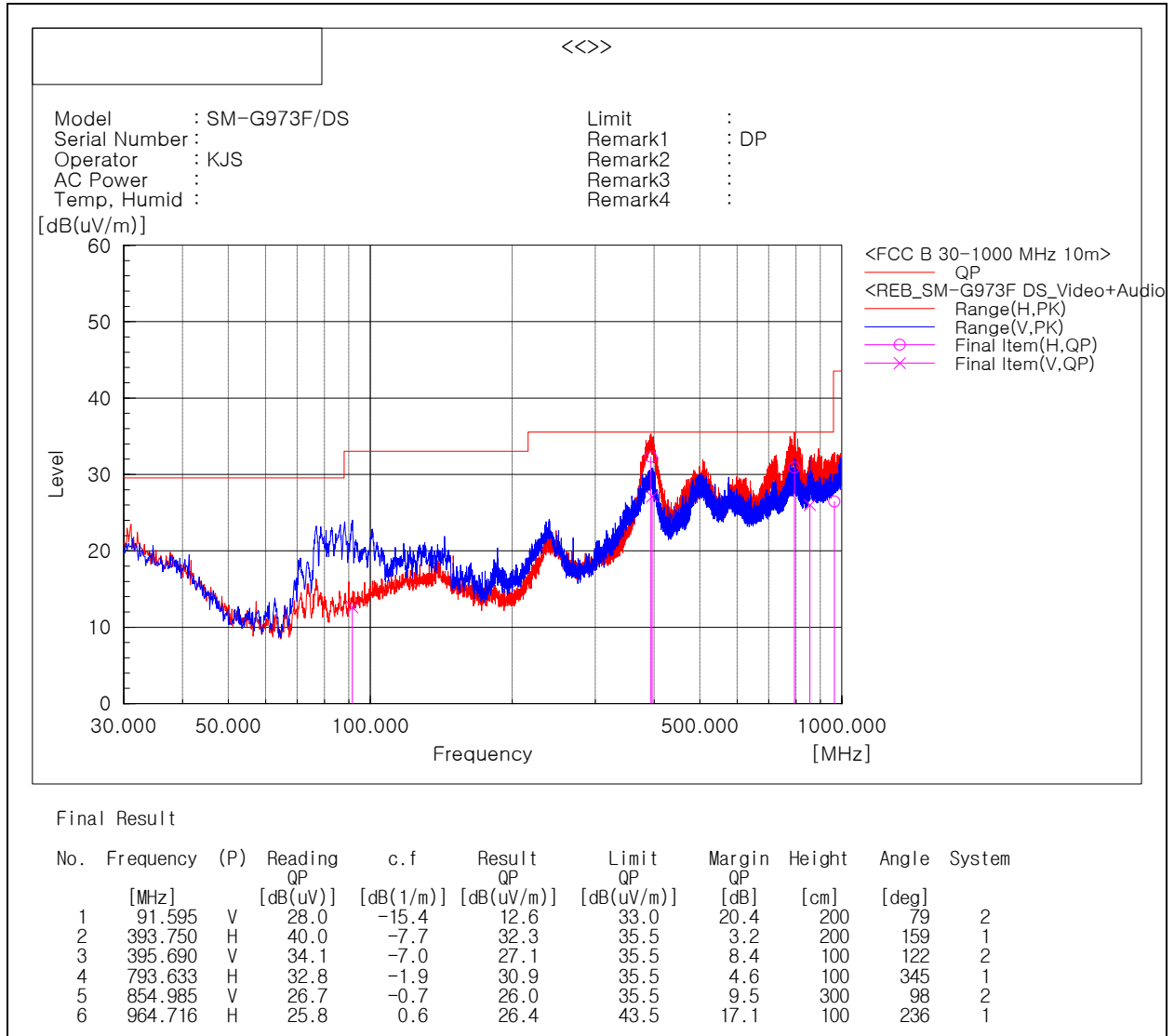
Note 2) Receiving antenna polarization : Horizontal, Vertical

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**

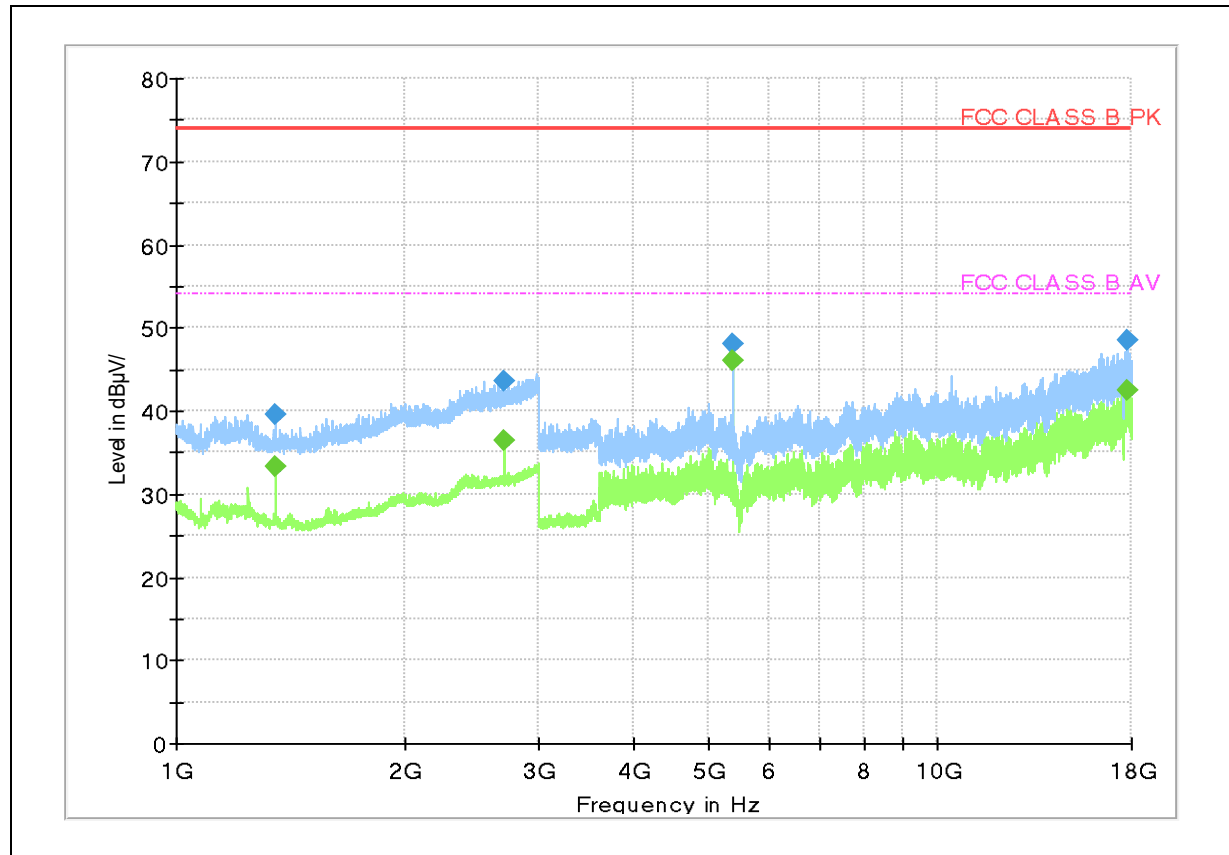
Note1) Receiving antenna polarization : Horizontal, Vertical

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)
1 349.500	39.6	---	74.0	34.4	100.0	H	236.0	7.4
1 350.000	---	33.4	54.0	20.6	100.0	H	245.0	7.4
2 700.000	---	36.4	54.0	17.6	100.0	V	115.0	14.8
2 700.000	43.7	---	74.0	30.3	100.0	H	140.0	14.8
5 400.000	---	46.0	54.0	8.0	100.0	H	126.0	6.7
5 400.000	48.0	---	74.0	26.0	100.0	H	126.0	6.7
17 760.500	---	42.5	54.0	11.5	100.0	H	92.0	30.4
17 760.500	48.6	---	74.0	25.4	100.0	H	92.0	30.4

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

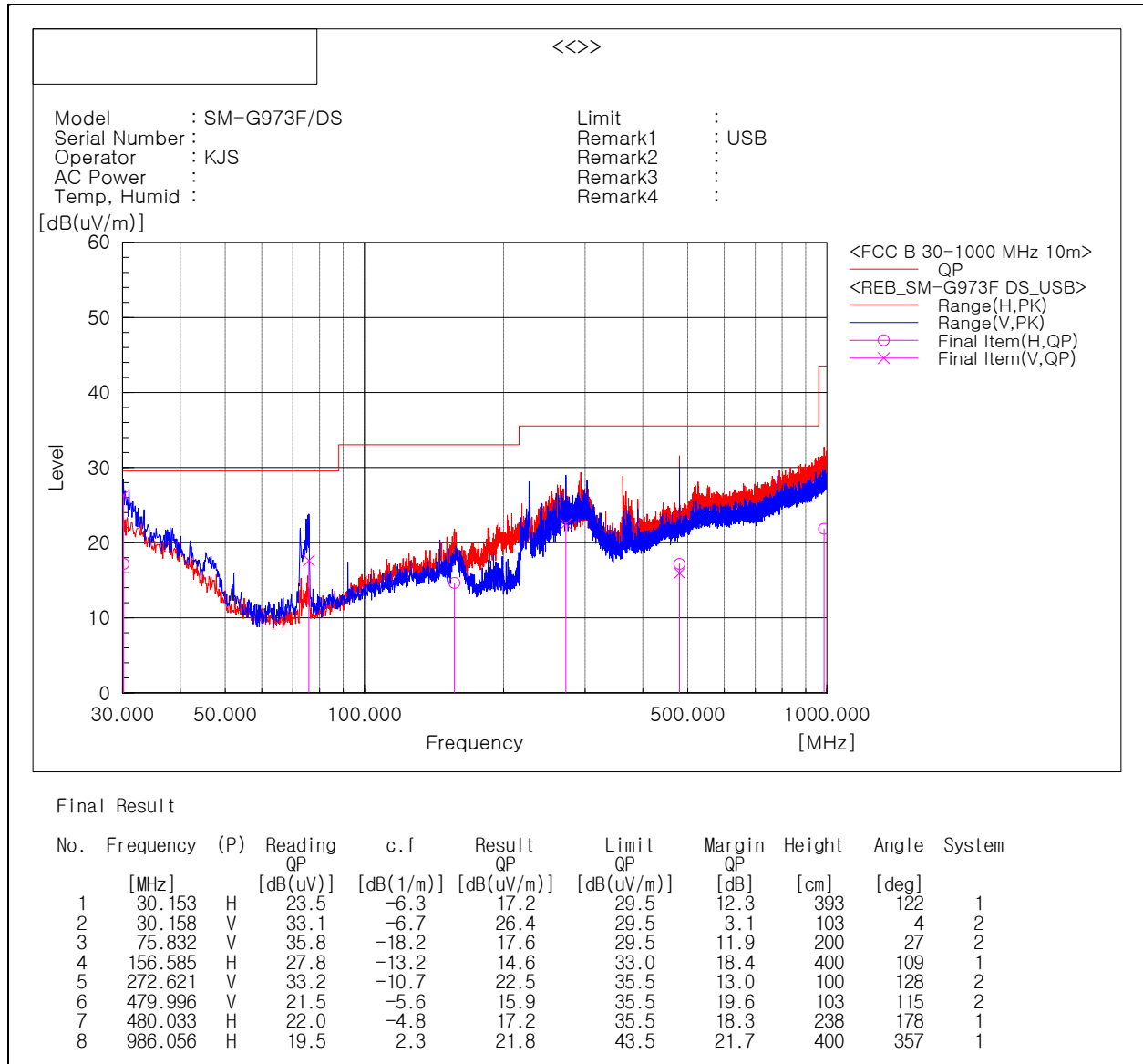
Note 2) Receiving antenna polarization : Horizontal, Vertical

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

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

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

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

☐ Operating Mode 4**- Frequencies below 1 GHz**

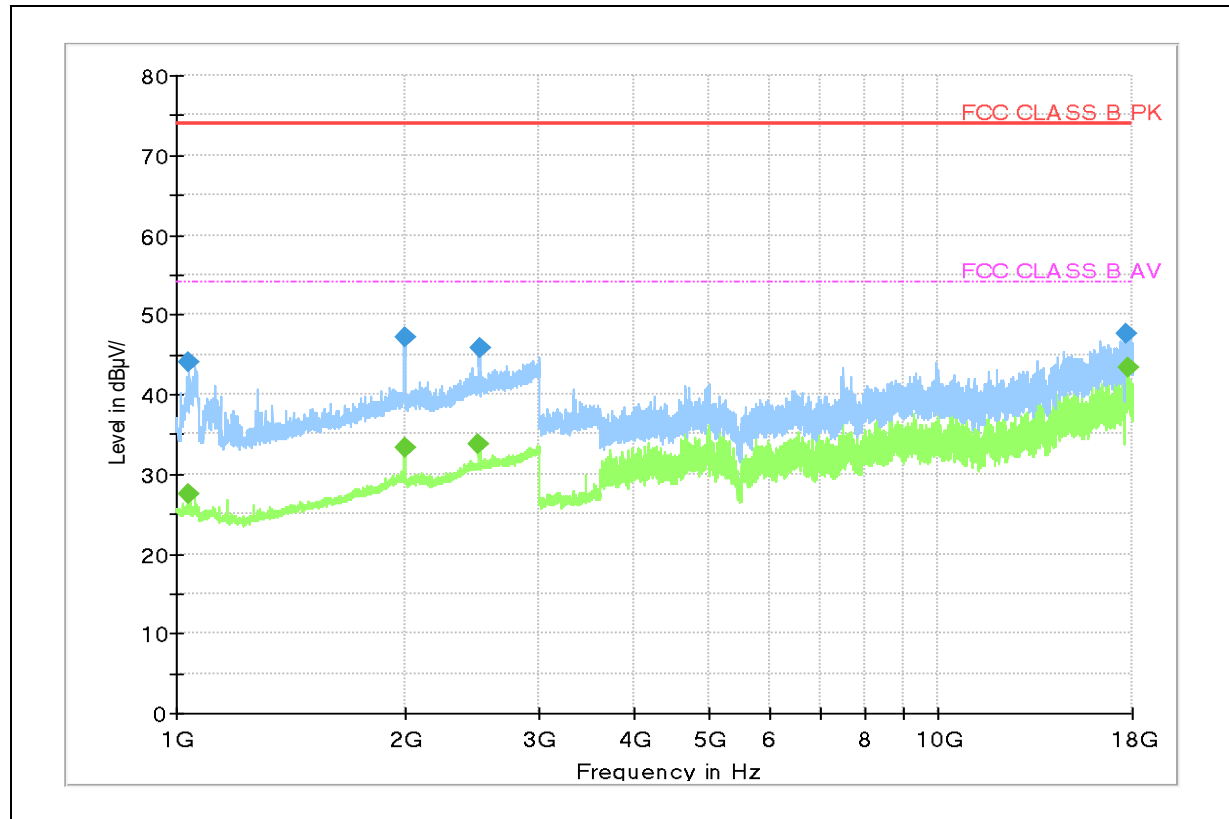
Note1) Receiving antenna polarization : Horizontal, Vertical

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)
1 038.500	44.1	---	74.0	29.9	100.0	H	122.0	6.2
1 039.000	---	27.6	54.0	26.4	100.0	V	204.0	6.2
1 995.000	47.1	---	74.0	26.9	100.0	H	345.0	12.3
1 995.500	---	33.3	54.0	20.7	100.0	H	345.0	12.3
2 493.000	---	33.7	54.0	20.3	100.0	H	249.0	13.7
2 500.000	45.8	---	74.0	28.2	100.0	H	208.0	13.7
17 686.000	47.7	---	74.0	26.2	100.0	H	79.0	30.1
17 740.000	---	43.4	54.0	10.6	100.0	V	198.0	30.3

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