

EMC TEST REPORT

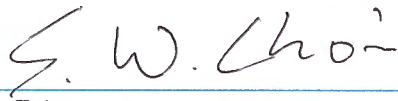
Project No.	LBE20191005	Issue No.	0
Applicant	Name of organization	Samsung Electronics Co., Ltd.	
	Address	(Maetan-dong) 129, Samsung-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16677, Republic of Korea	
	Date of application	August 07, 2019	
EUT	Type of device	☐ All other Receivers subject to part15 ☒ Class 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	A3LSMT540	
	Kind of product	Portable Device	
	Model No.	SM-T540	
	Variant Model No.	Refer to clause 4.6	
	Manufacturer	1. Samsung Electronics Co., Ltd 94-1, Imsu-dong, Gumi-si, Gyengsangbuk-do, 730-722, Republic of Korea 2. 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		August 08, 2019 ~ August 14, 2019	
Issue date		August 20, 2019	
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 : Ji-Yeon Lee 		Reviewed by : Sung-Wook Choi 	
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			

Table of contents

1. Report Information

1.1 Revision history	3
1.2 RSE test report no.	3

2. Summary of test results

2.1 Emission	3
--------------------	---

3. General Information

3.1 Test facility	3
-------------------------	---

4. Test Configuration

4.1 Test Peripherals	4
4.2 EUT operating mode	5
4.3 Details of Sampling	5
4.4 Used cable description	6
4.5 Test arrangement	7
4.6 EUT Description	10
4.7 EUT Frequencies	10
4.8 Test configuration and condition	10
4.9 Measurement uncertainty	11

5. Result of individual tests

5.1 Conducted disturbance	12
5.2 Radiated disturbance	17

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
-	-

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 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, 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	Portable Device	SM-T540	-	SAMSUNG	A3LSMT540
B	Battery	EB-BT545ABY	-	SAMSUNG	-
C	Headset	EHS61ASFWE	-	SAMSUNG	-
D	Data Cable	EP-DT725BBE	-	SAMSUNG	-
E	Micro SD Card	64GB	-	SAMSUNG	-
F	Laptop Computer	Latitude5580	1WYRYM2	Dell	DoC
			D3HRYM2	Dell	DoC
G	Laptop AC Adapter	LA65NM130	5DEA	Dell	DoC
			5B3C	Dell	DoC
H	Mouse	AA-SM7PCP	CN57BA5903634ADV8JJCD4371	SAMSUNG	DoC
			CNBA5903634ADV8J31O3050	SAMSUNG	DoC
I	OTG Gender	EE-UG970	-	SAMSUNG	DoC
J	Router	DIR-806A	RF0F1D8011501	D-Link	DoC
			RF0F1D8011504	D-Link	DoC
K	Travel Adapter	EP-TA200	R37M6VLH0G1DK3	SAMSUNG	-
L	DP Monitor	27UD88	711NTQD8H004	LG	DoC
M	DP Monitor AC Adapter	LCAP31	EH8NN629490055062	LG	DoC
N	DP Cable	JCA141	-	j5 create	DoC
O	S-Pen	SPEN SEV-T545	-	SAMSUNG	-

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	Camera(Rear) + Charging(w/TA)
2	Camera(Front) + Charging(w/TA)
3	Video+Audio playback from internal memory data + EMR Touch Solution(S-Pen) + 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)
3	Video+Audio playback from internal memory data + Display out (w/ USB to Direct DP Cable) + EMR Touch Solution(S-Pen)
4	USB Data Communication with PC (from external memory data)

4.3 Details of Sampling

Customer selected, single unit.

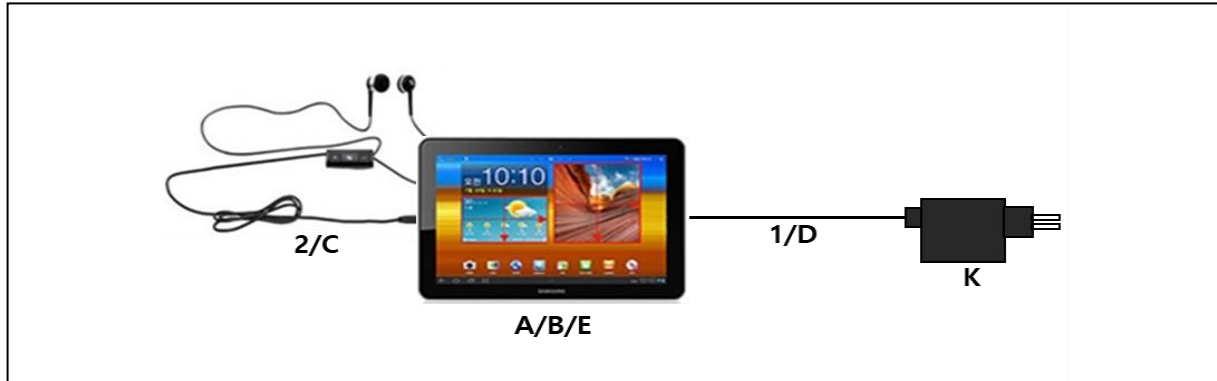
4.4 Used cable description

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:

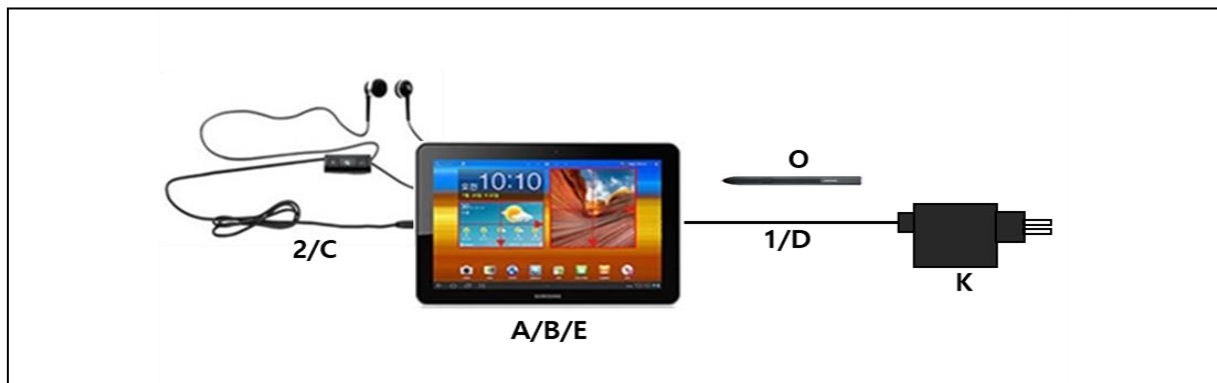
No.	Connected cable	Length [m]	Shielded [Y/N]	Note
1	Data Cable	1.0	Y	From EUT to Laptop Computer
				From EUT to Travel Adapter
2	Headset	1.3	N	For EUT
3	Power	1.8	N	For Laptop Computer to Laptop AC Adapter
4	Power	1.5	N	For Laptop AC Adapter
5	LAN	1.5	N	From Laptop Computer to Router
6	USB	0.8	N	From Laptop Computer to Router for DC Power
7	USB	1.8	N	From OTG Gender to Mouse
8	DP Cable	1.1	Y	From EUT to DP Monitor
9	Power	1.2	N	From DP Monitor to DP Monitor AC Adapter
10	Power	1.8	N	For DP Monitor AC Adapter

4.5 Test arrangement

4.5.1 Conducted Emission



[Mode 1 - 2]

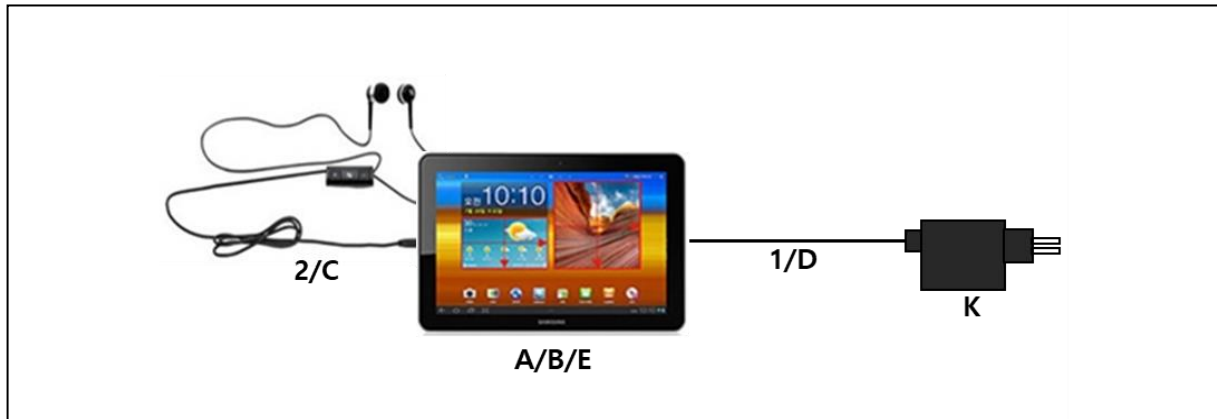


[Mode 3]



[Mode 4]

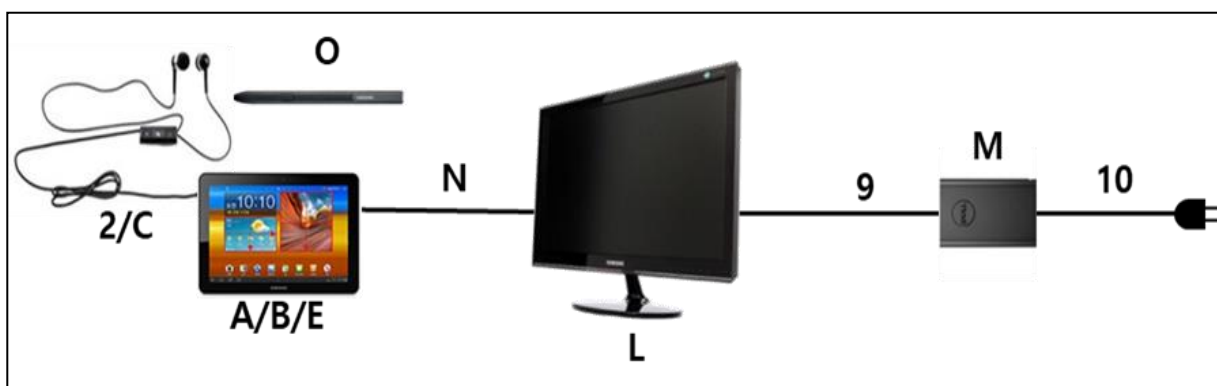
4.5.2 Radiated Emission



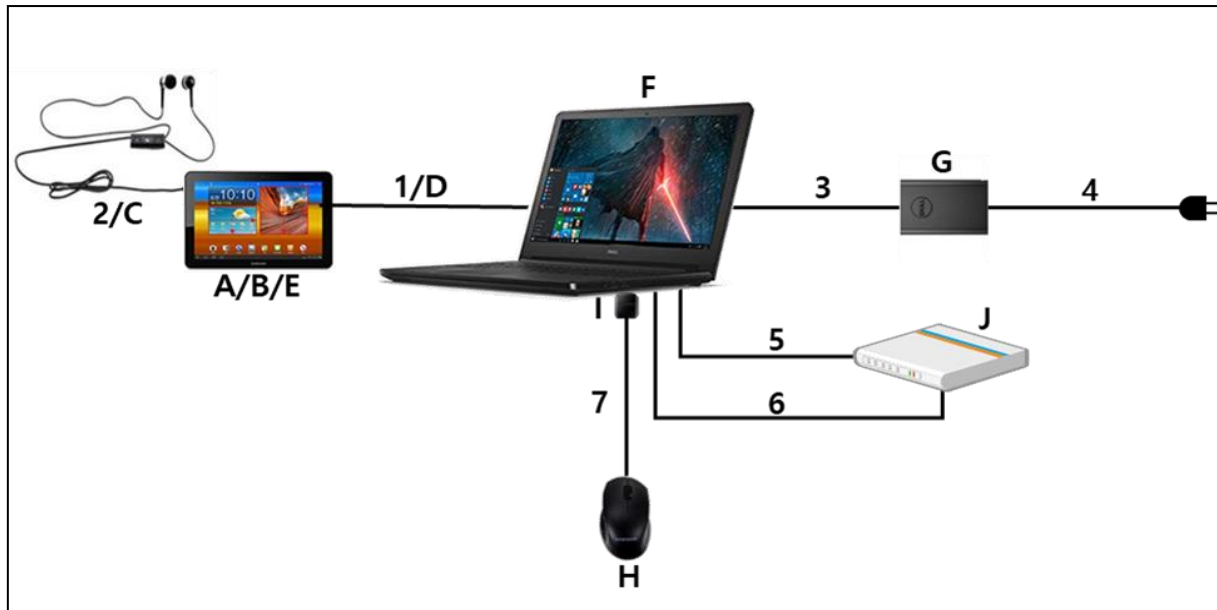
[Mode 1]



[Mode 2]



[Mode 3]



[Mode 4]

4.6 EUT Description

The EUT is a tablet type portable device which can incorporate a Bluetooth, ANT+, Wi-Fi, Camera, Audio and Video player, GNSS, NFC, Display Port, Pogo-pin, S-pen.

4.6.1 The variant models

- None

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

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 camera of the EUT was operated continuously.

It was excluded from the test using POGO pin accessories because there was no accessories available, and when the accessories are available in the future, it will be verified for POGO pins.

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	2.83 dB
Radiated Disturbance (Below 1 GHz)	Horizontal	4.99 dB
	Vertical	4.91 dB
Radiated Disturbance (Above 1 GHz)	Horizontal	5.11 dB
	Vertical	5.12 dB

5. Results of individual test

5.1 Conducted disturbance

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 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

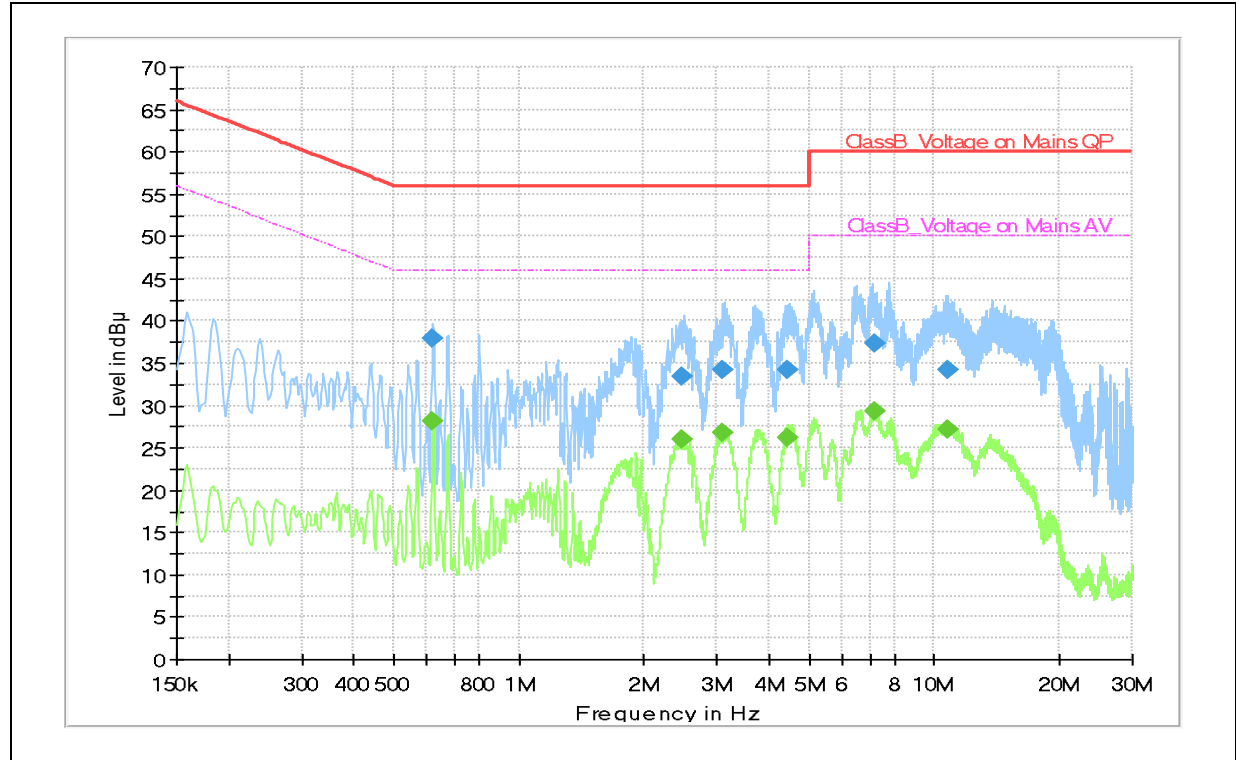
EMC No.	Test Instrument	Model name	Manufacturer	Serial No.	Calibration	
					Date	Interval (Month)
E5I-043	Two-Line V-Network	ENV216	R&S	101630	2018-08-17	12
E5I-017	EMI Test Receiver	ESU8	R&S	100483	2019-01-16	12
-	Test software	EMC32	R&S	Ver 9.26.01	-	-

5.1.2 Temperature and humidity condition

Test date	2019-08-14	Test engineer	Ji-Yeon Lee
Climate condition	Ambient temperature	(23.0 ~ 23.2) °C	Limit (15.0 to 35.0) °C
	Relative humidity	(51.8 ~ 52.0) % R.H.	Limit (25.0 to 75.0) % R.H.
	Atmospheric pressure	(100.6 ~ 100.8) 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:

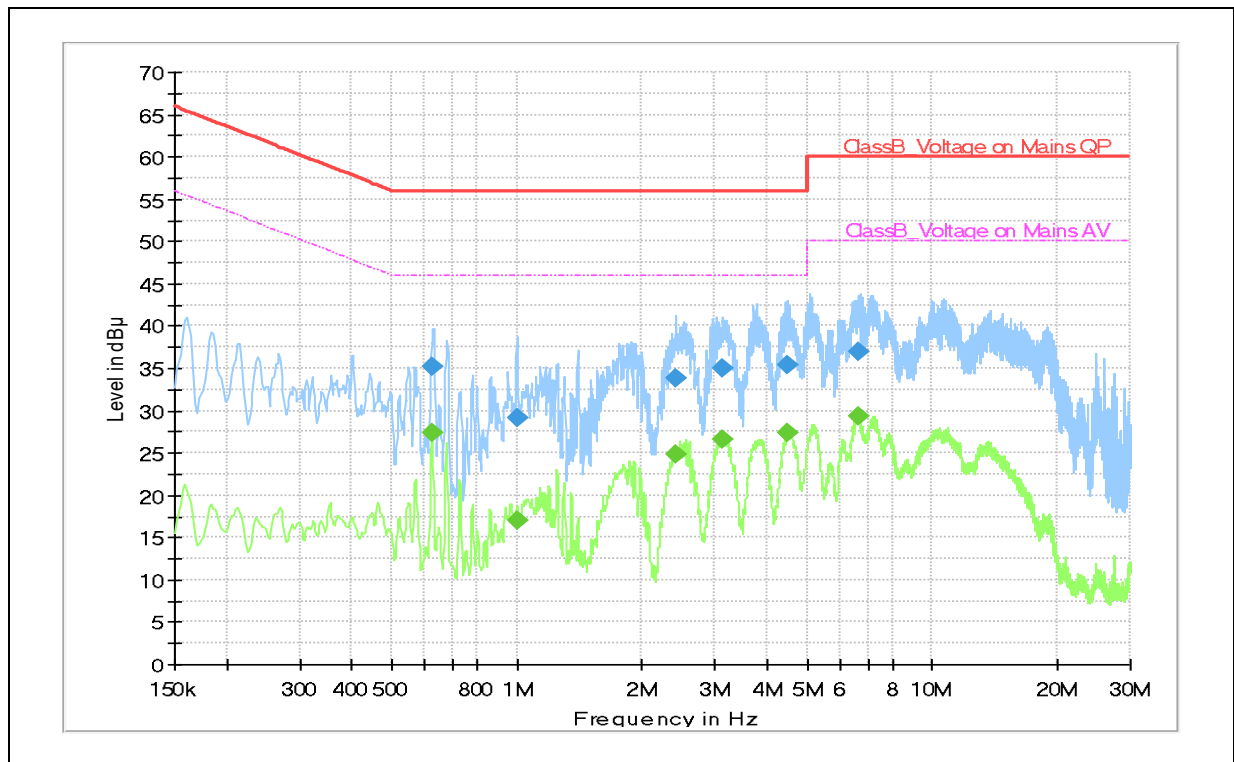
Frequency (MHz)	QP (dBμV)	CAV (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)
0.620	---	28.1	46.0	17.9	N	9.9
0.620	38.0	---	56.0	18.0	N	9.9
2.479	33.4	---	56.0	22.6	L1	10.1
2.479	---	26.0	46.0	20.0	L1	10.1
3.104	34.3	---	56.0	21.7	L1	10.1
3.104	---	26.9	46.0	19.1	L1	10.1
4.450	---	26.2	46.0	19.8	L1	10.1
4.450	34.2	---	56.0	21.8	L1	10.1
7.157	---	29.3	50.0	20.7	L1	10.2
7.157	37.4	---	60.0	22.6	L1	10.2
10.784	34.2	---	60.0	25.8	L1	10.4
10.784	---	27.2	50.0	22.8	L1	10.4

Note 2) Level (QP and/or CAV) = Meter Reading (QP and/or CAV) + Corr. (LISN Insertion Loss + Cable Loss)

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

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

□ 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:

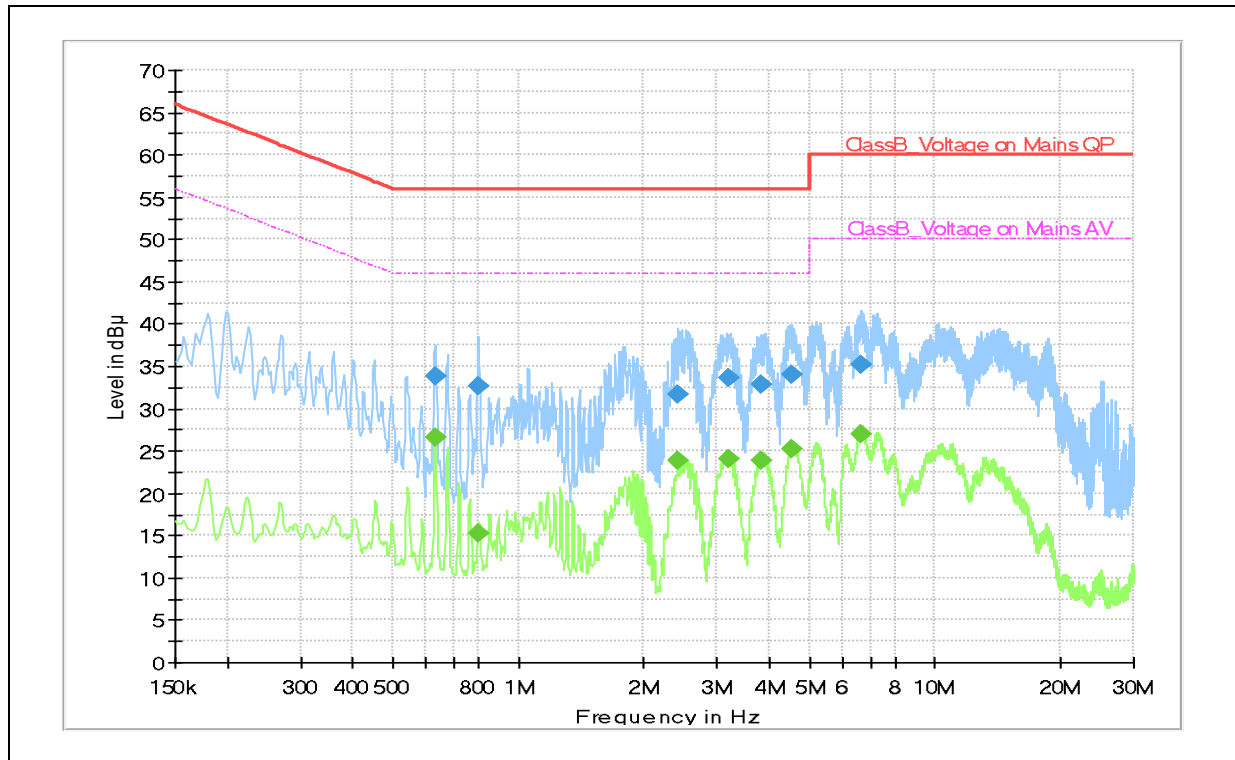
Frequency (MHz)	QP (dBμV)	CAV (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)
0.625	---	27.4	46.0	18.6	L1	10.3
0.625	35.2	---	56.0	20.8	L1	10.3
1.003	29.1	---	56.0	26.9	N	9.7
1.003	---	16.9	46.0	29.1	N	9.7
2.407	33.8	---	56.0	22.2	N	9.7
2.407	---	24.8	46.0	21.2	N	9.7
3.140	35.0	---	56.0	21.0	L1	10.1
3.140	---	26.6	46.0	19.4	L1	10.1
4.493	---	27.3	46.0	18.7	L1	10.1
4.493	35.4	---	56.0	20.6	L1	10.1
6.630	---	29.3	50.0	20.7	L1	10.2
6.630	37.0	---	60.0	23.0	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:

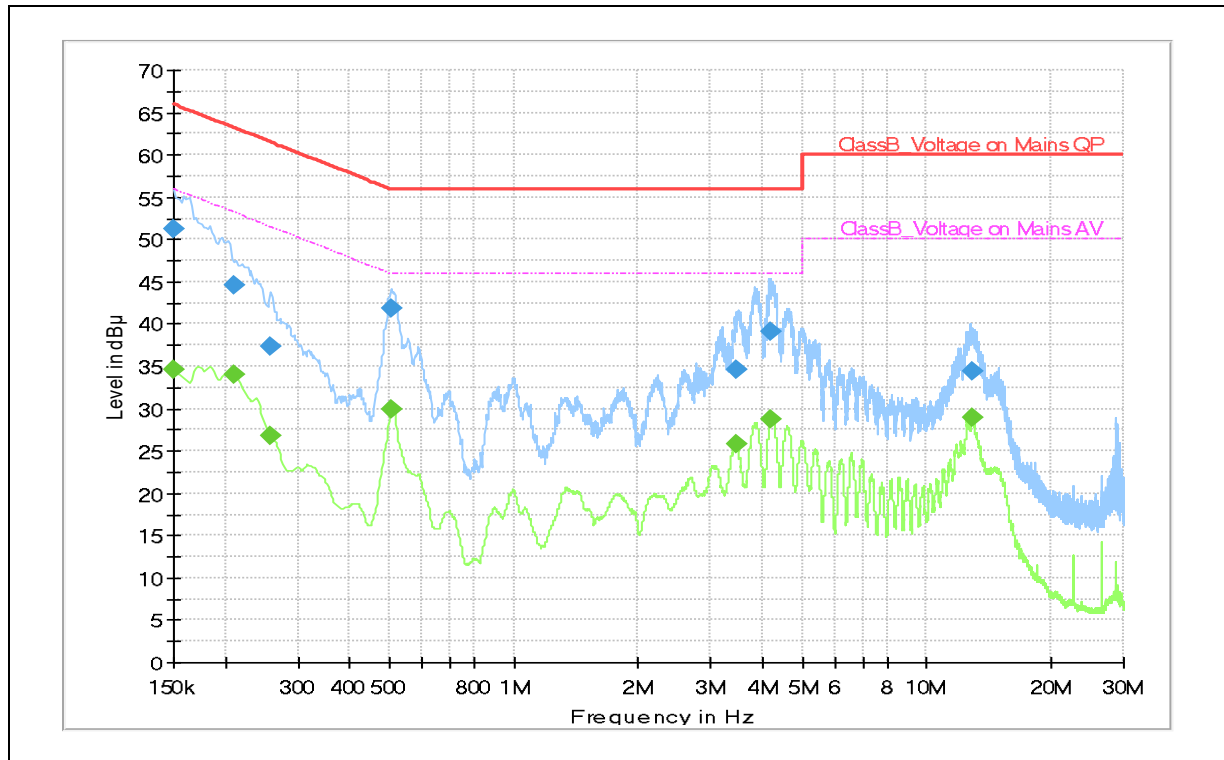
Frequency (MHz)	QP (dBμV)	CAV (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)
0.632	---	26.5	46.0	19.5	L1	10.3
0.632	33.9	---	56.0	22.1	L1	10.3
0.803	---	15.3	46.0	30.7	N	9.8
0.803	32.6	---	56.0	23.4	N	9.8
2.425	---	23.8	46.0	22.2	N	9.7
2.425	31.6	---	56.0	24.4	N	9.7
3.199	33.7	---	56.0	22.3	N	9.7
3.199	---	24.0	46.0	22.0	N	9.7
3.829	32.9	---	56.0	23.1	N	9.7
3.829	---	23.9	46.0	22.1	N	9.7
4.538	---	25.2	46.0	20.8	N	9.7
4.538	34.0	---	56.0	22.0	N	9.7
6.666	35.2	---	60.0	24.8	L1	10.2
6.666	---	27.0	50.0	23.0	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 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	---	34.7	56.0	21.3	L1	9.8
0.150	51.3	---	66.0	14.7	L1	9.8
0.211	---	34.1	53.2	19.1	L1	9.9
0.211	44.6	---	63.2	18.6	L1	9.9
0.258	---	26.9	51.5	24.6	L1	9.8
0.258	37.4	---	61.5	24.1	L1	9.8
0.503	---	30.0	46.0	16.0	L1	10.2
0.503	41.8	---	56.0	14.2	L1	10.2
3.442	---	25.9	46.0	20.1	L1	9.8
3.442	34.7	---	56.0	21.3	L1	9.8
4.207	39.2	---	56.0	16.8	N	9.8
4.207	---	28.8	46.0	17.2	N	9.8
12.946	---	29.0	50.0	21.0	L1	10.0
12.946	34.5	---	60.0	25.5	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

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

Note) Distance correction formula from $D_1(3\text{m})$ to $D_2(10\text{m})$
: Limit at $D_2 = \text{Limit at } D_1 + 20\text{Log}(D_1 / D_2)$

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	2019-05-21	12
E5I-070	BiLog Antenna	CBL6112D	TESEQ	35383	2018-10-12	24
E5I-121	BiLog Antenna	CBL6112D	TESEQ	36999	2018-10-12	24
E5I-093	Preamplifier	310N	SONOMA	273122	2019-01-23	12
E5I-094	Preamplifier	310N	SONOMA	282363	2019-01-23	12
E5I-036	Horn Antenna	HF907	R&S	100507	2018-06-15	24
E5I-040	Signal Conditioning Unit	SCU-18	R&S	10210	2019-04-05	12
E5I-037	WideBand Horn Antenna	WBH 18-40K	R&S	11201	2019-01-31	24
E5I-042	Signal Conditioning Unit	SCU-40A	R&S	10004	2018-09-05	12
-	Test software	EP7RE	TOYO	Ver 5.8.2	-	-
-	Test software	EMC32	R&S	Ver 9.25.00	-	-

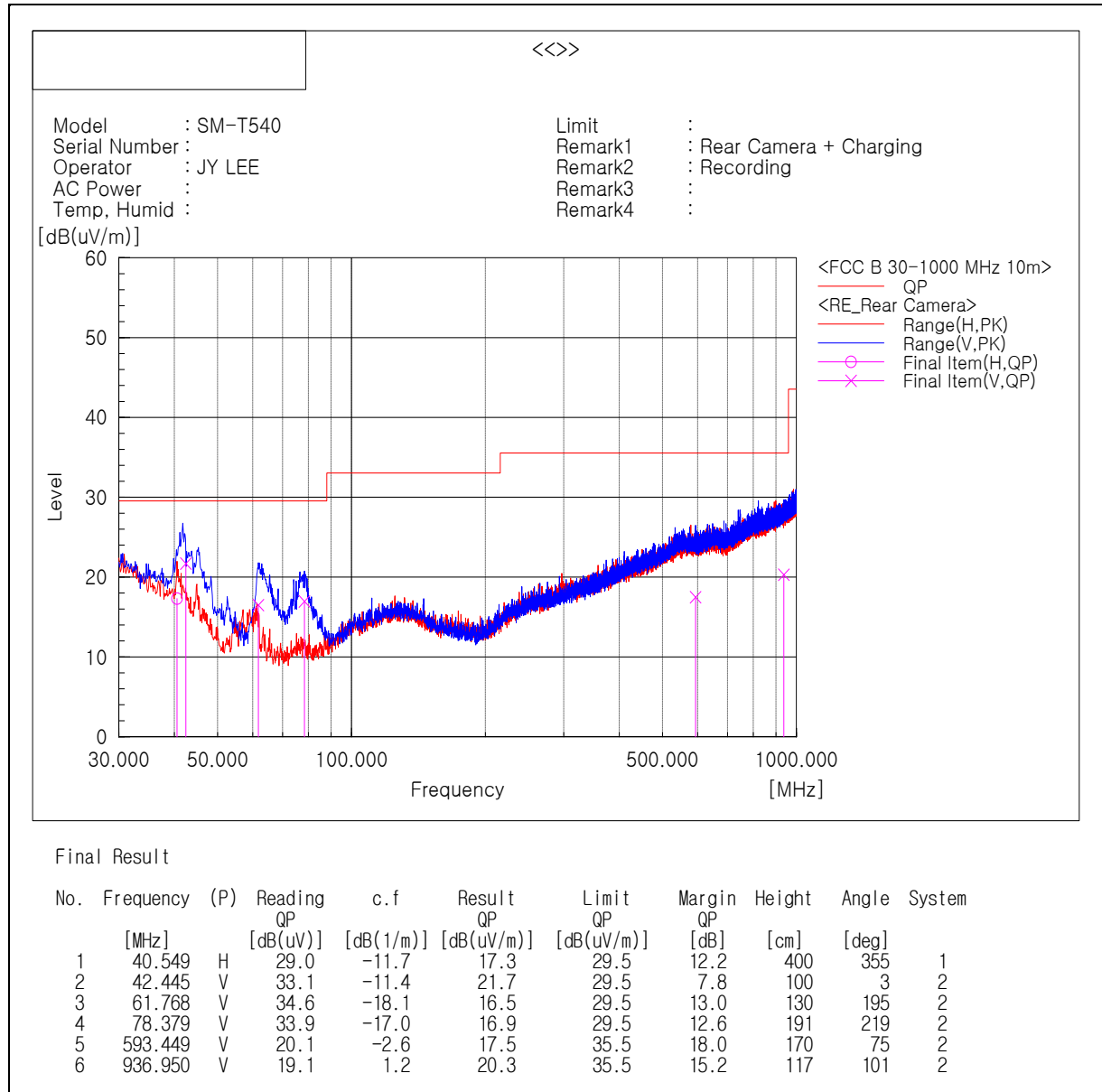
5.2.2 Temperature and humidity condition

Test date	2019-08-08	Test engineer	Ji-Yeon Lee
Climate condition	Ambient temperature	(23.0 ~ 23.5) °C	Limit (15.0 to 35.0) °C
	Relative humidity	(42.1 ~ 52.6) % R.H.	Limit (25.0 to 75.0) % R.H.
	Atmospheric pressure	(100.5 ~ 100.7) 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

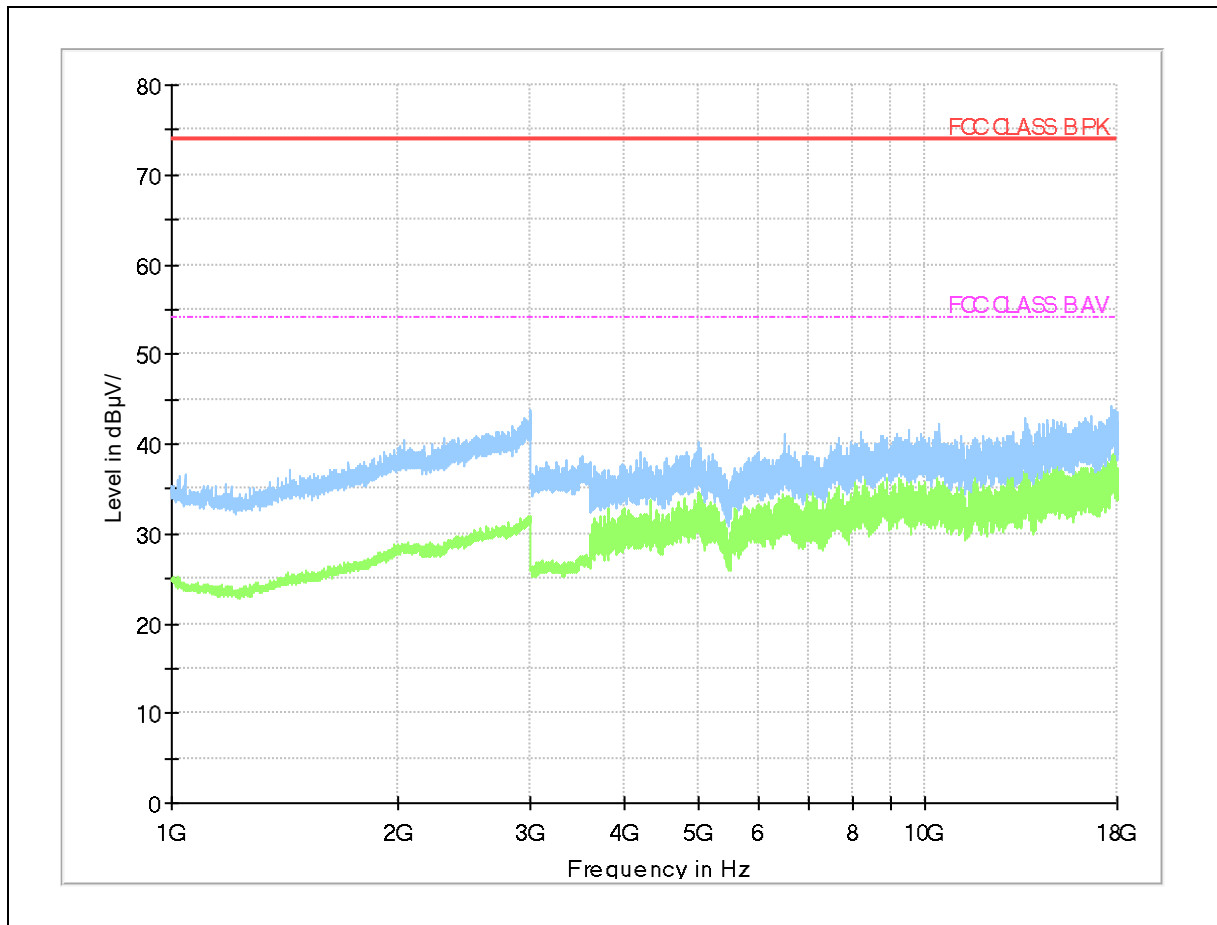
Test Distance : 10 m, Antenna Height : 1 to 4 meters

Level (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

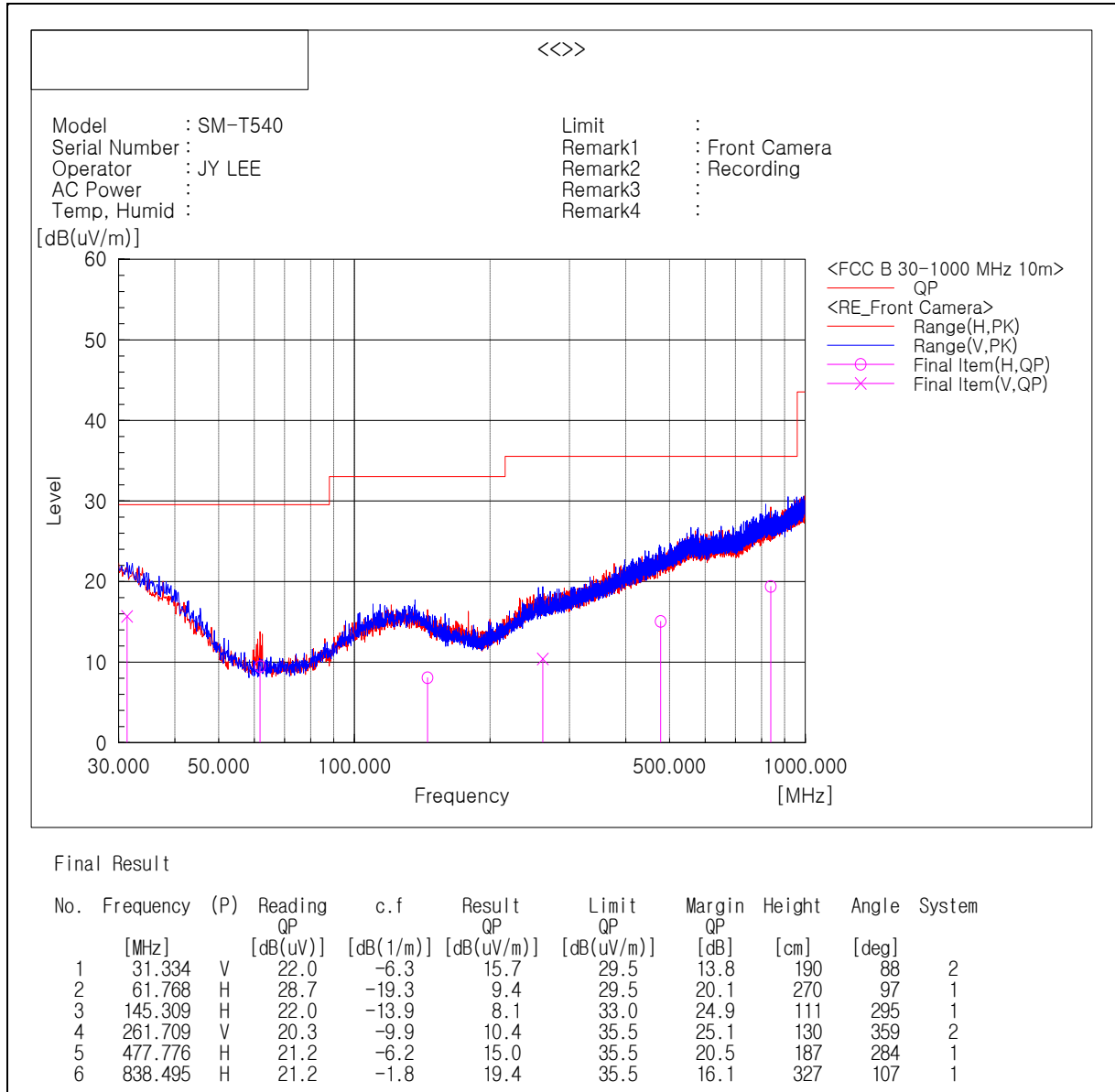
Level (PK and/or CAV) = Reading (PK and/or CAV) + Corr. (Antenna Factor + Cable Loss - Amp. Gain)

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

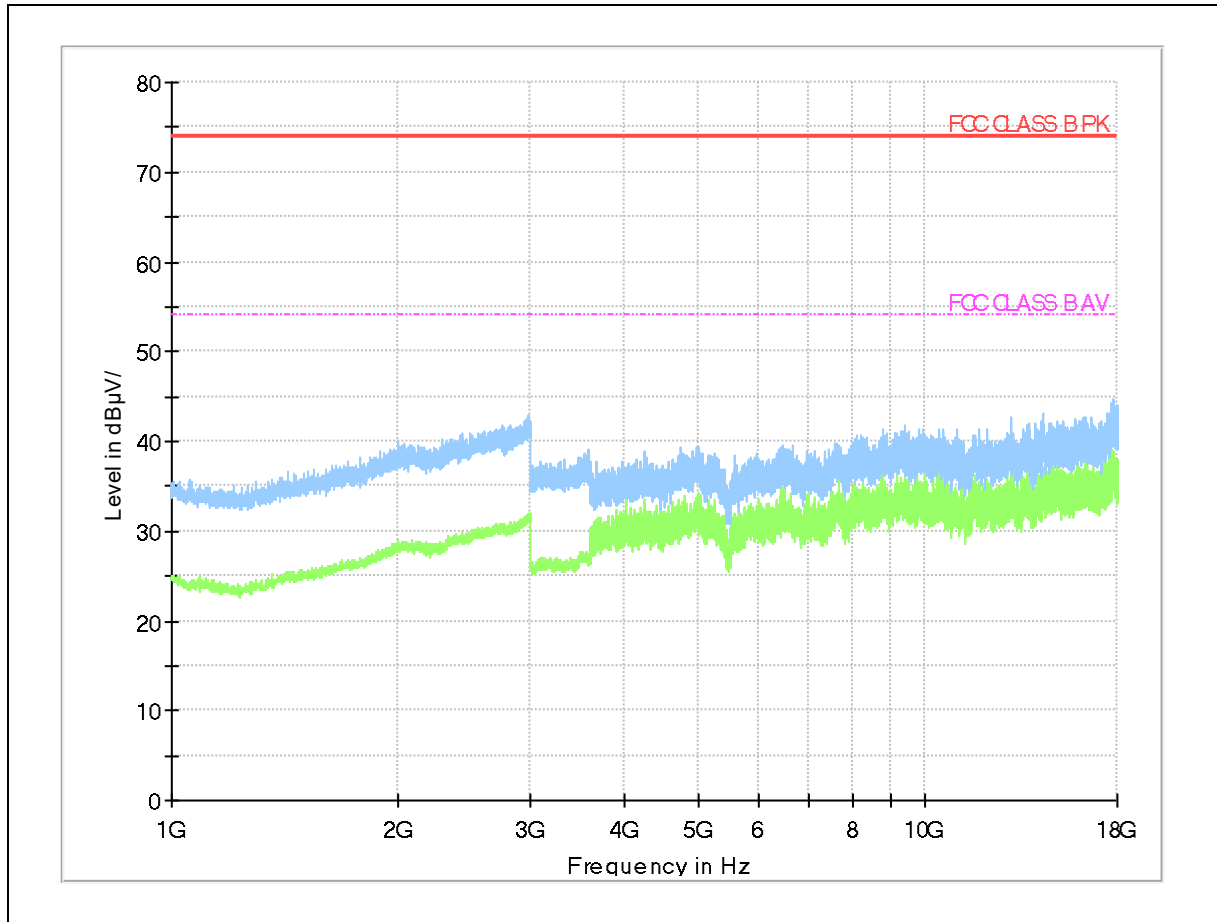
Test Distance : 10 m, Antenna Height : 1 to 4 meters

Level (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

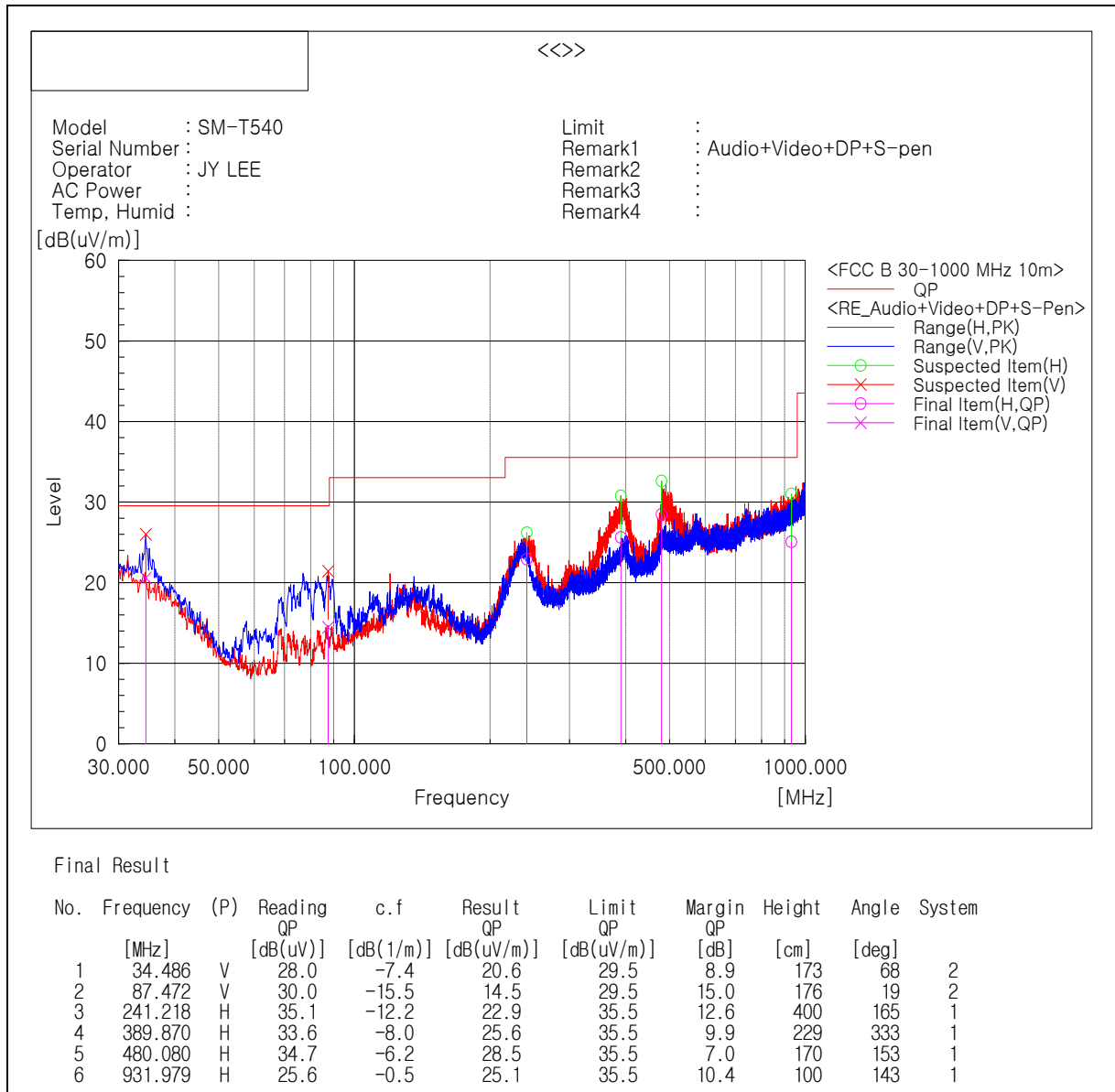
Note 2) Receiving antenna polarization : Horizontal, Vertical

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**

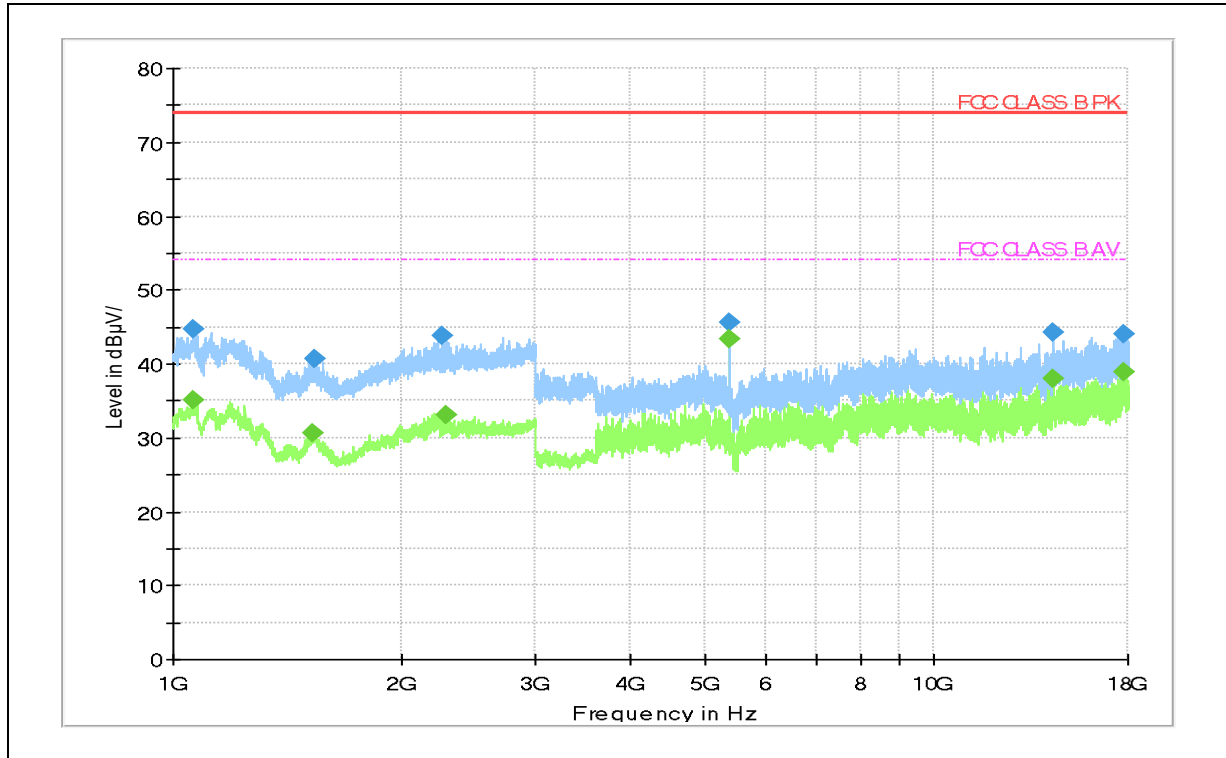
Note1) Receiving antenna polarization : Horizontal, Vertical

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

Level (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)	Peak (dBμV/m)	CAV (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1 062.000	44.8	---	74.0	29.2	254.0	H	252.0	6.2
1 064.000	---	35.1	54.0	18.9	265.0	H	293.0	6.2
1 529.000	---	30.7	54.0	23.3	121.0	V	244.0	8.9
1 537.500	40.7	---	74.0	33.3	125.0	V	244.0	9.0
2 260.500	43.8	---	74.0	30.2	157.0	H	332.0	12.6
2 282.000	---	33.1	54.0	20.9	165.0	H	332.0	12.6
5 399.500	---	43.3	54.0	10.7	191.0	H	134.0	6.7
5 399.500	45.7	---	74.0	28.3	185.0	H	134.0	6.7
14 326.500	44.3	---	74.0	29.7	355.0	H	18.0	24.0
14 370.500	---	38.1	54.0	15.9	351.0	H	358.0	23.9
17 755.000	---	38.9	54.0	15.1	208.0	H	207.0	30.4
17 780.500	44.1	---	74.0	29.9	211.0	H	33.0	30.4

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

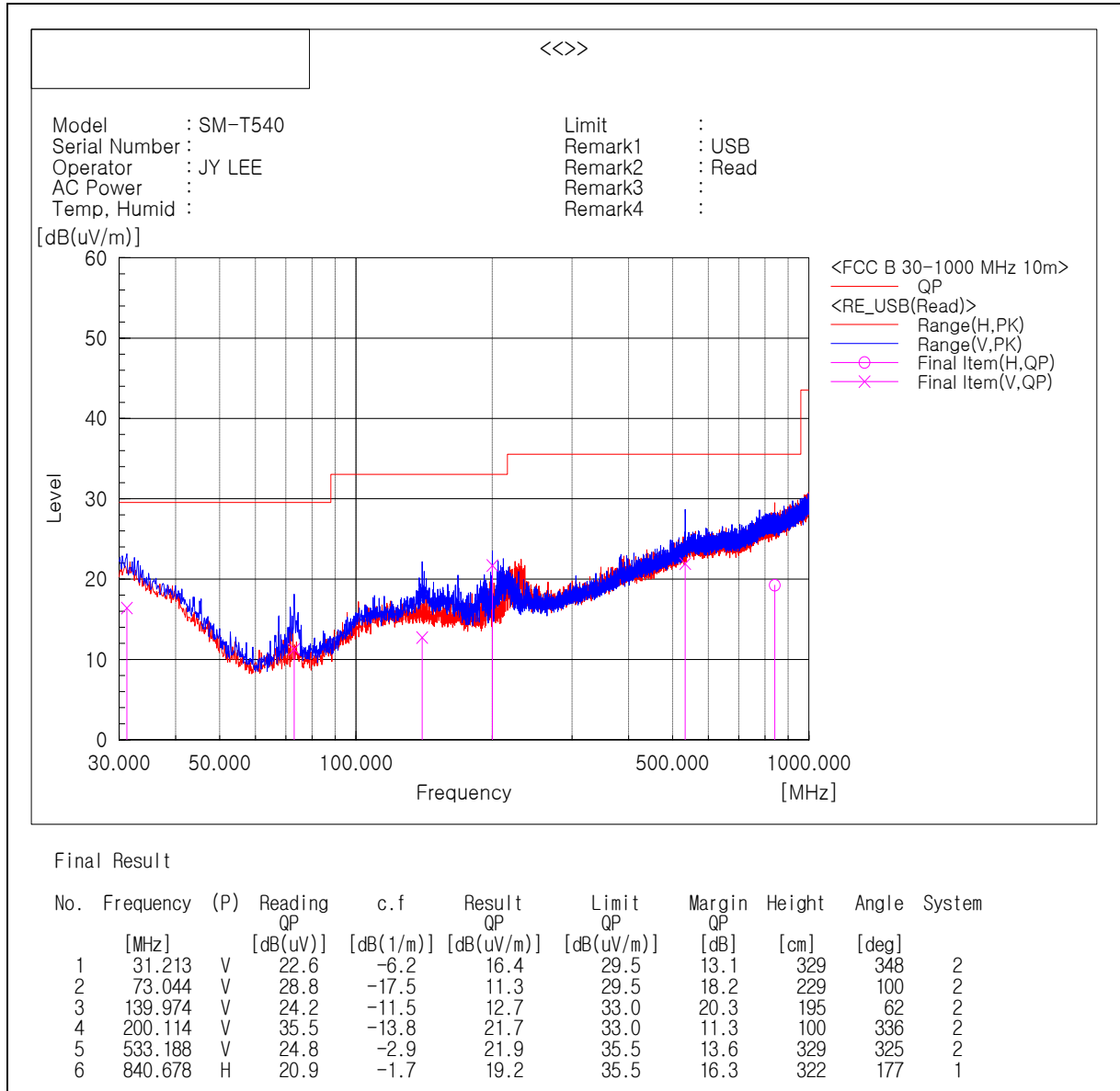
Note 2) Receiving antenna polarization : Horizontal, Vertical

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**

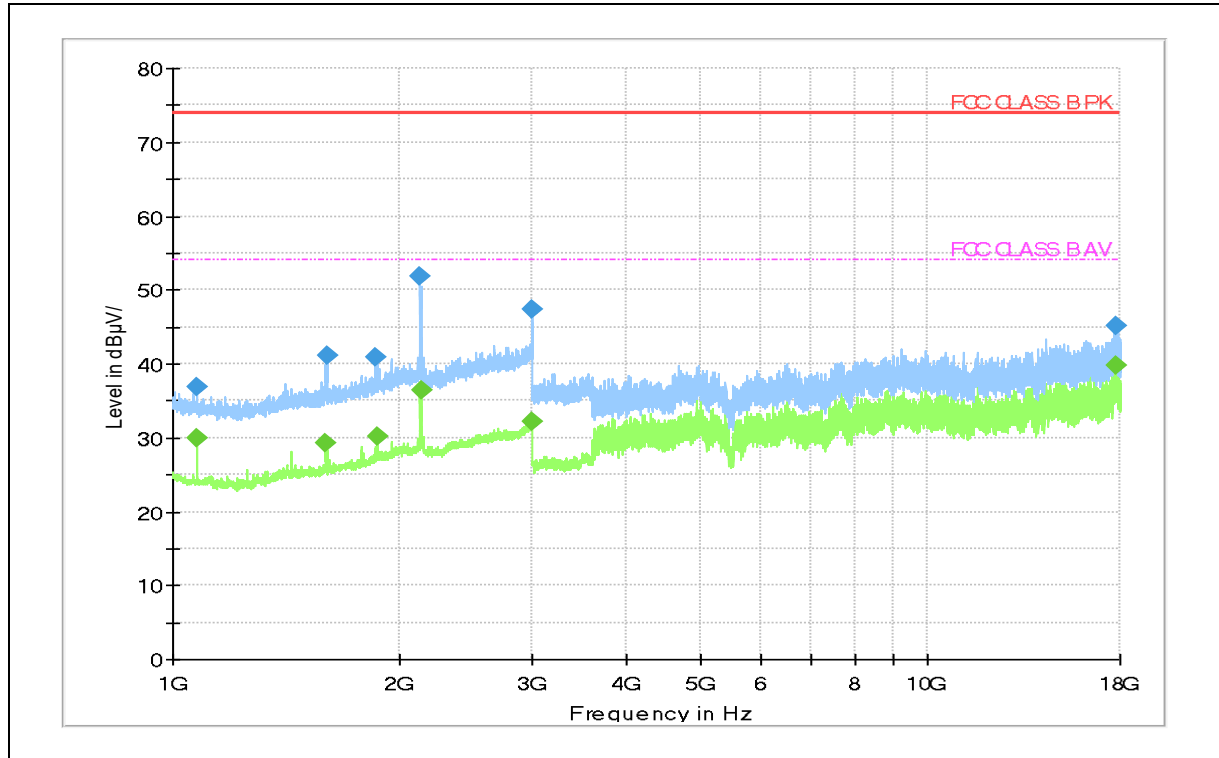
Note1) Receiving antenna polarization : Horizontal, Vertical

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

Level (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)	Peak (dBμV/m)	CAV (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1 074.000	36.9	---	74.0	37.1	100.0	V	219.0	6.3
1 074.500	---	30.0	54.0	24.0	115.0	H	221.0	6.3
1 594.500	---	29.4	54.0	24.6	165.0	V	127.0	9.4
1 598.500	41.1	---	74.0	32.9	174.0	V	358.0	9.4
1 860.000	41.0	---	74.0	33.0	201.0	V	271.0	11.1
1 865.000	---	30.1	54.0	23.9	204.0	V	53.0	11.1
2 129.500	51.9	---	74.0	22.1	101.0	V	0.0	12.4
2 130.500	---	36.4	54.0	17.6	109.0	V	346.0	12.4
2 999.500	---	32.2	54.0	21.8	315.0	H	152.0	16.3
3 000.000	47.3	---	74.0	26.7	308.0	V	123.0	0.3
17 763.500	45.1	---	74.0	28.9	105.0	H	170.0	30.4
17 789.500	---	39.7	54.0	14.3	101.0	H	259.0	30.5

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