EMC TEST REPORT

Project No.	LBE20230553	**Issue No.**	1
Applicant	**Name of organization**	Samsung Electronics Co., Ltd.	
	Address	(Maetan-dong) 129, Samsung-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16677, Korea	
	Date of receipt	October 6, 2023	
EUT	**Type of device**	■ All other receivers subject to Part 15 ■ 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	A3LSMA156U	
	Kind of product	Mobile Phone	
	Model No.	SM-A156U	
	Variant Model No.	Refer to clause 4.6	
	Manufacturer	**Samsung Electronics Vietnam THAI NGUYEN Co., Ltd.** Yen Binh Industrial Zone Pho Ten Dist., Thai Nguyen Province, Vietnam	
Applied Standards		47 CFR Part 15, Subpart B, Class B / ANSI C63.4-2014	
Test Period		October 13, 2023 ~ October 16, 2023	
Issue date		November 9, 2023	

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** : Chang-Eun Park
S. J. Kim	C. E. Park

Samsung Electronics Co., Ltd., Global CS Center
(Maetan dong) 129, Samsung-ro, Yeongtong-Gu, Suwon-Si, Gyeonggi-Do 16677, Korea

Table of Contents

1. Report Information

1.1 Revision history

No.	Date of Issue	Revised detailed information
Issue 0	October 18, 2023	There are no revisions and this version is basic test report.
Issue 1	November 9, 2023	The variant model name was changed from SM-A156V to SM-S156V on page 10.

※ 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:

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
Mobile Phone	SM-A156U	-	SAMSUNG	A3LSMA156U
Headset	EHS64AVFWE	-	CRESYN	-
Data Cable	EP-DN980	-	RF TECH	-
Laptop Computer	Latitude5580	1WYRYM2	Dell	SDoC
Laptop Computer	Latitude5580	D3HRYM2	Dell	SDoC
Laptop AC Adapter	LA65NM130	5DEA	Dell	SDoC
Laptop AC Adapter	LA65NM130	5B3C	Dell	SDoC
Mouse	AA-SM7PCPB	CN57BA5903634AD V8JJCD4371	SAMSUNG	SDoC
Mouse	SMH-210UB	TAKGA05788Z	SAMSUNG	SDoC
Router	DIR-806A	RF0F1D8018454	D-Link	SDoC
Router	DIR-806A	RF0F1D8011504	D-Link	SDoC
Travel Adapter	EP-TA800	R37TCCA00CBDKA	Dongyang E&P	-
microSD 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	USB data communication with PC (from external memory)

4.3 Details of Sampling

Customer selected, single unit.

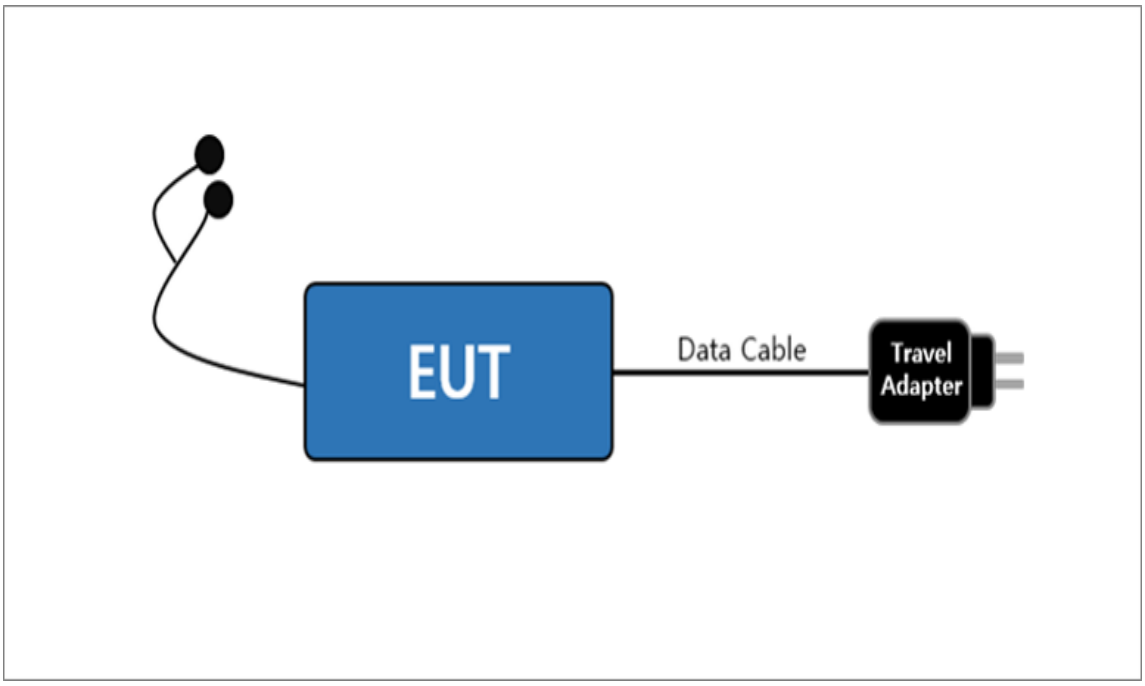
4.4 Used cable description

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:

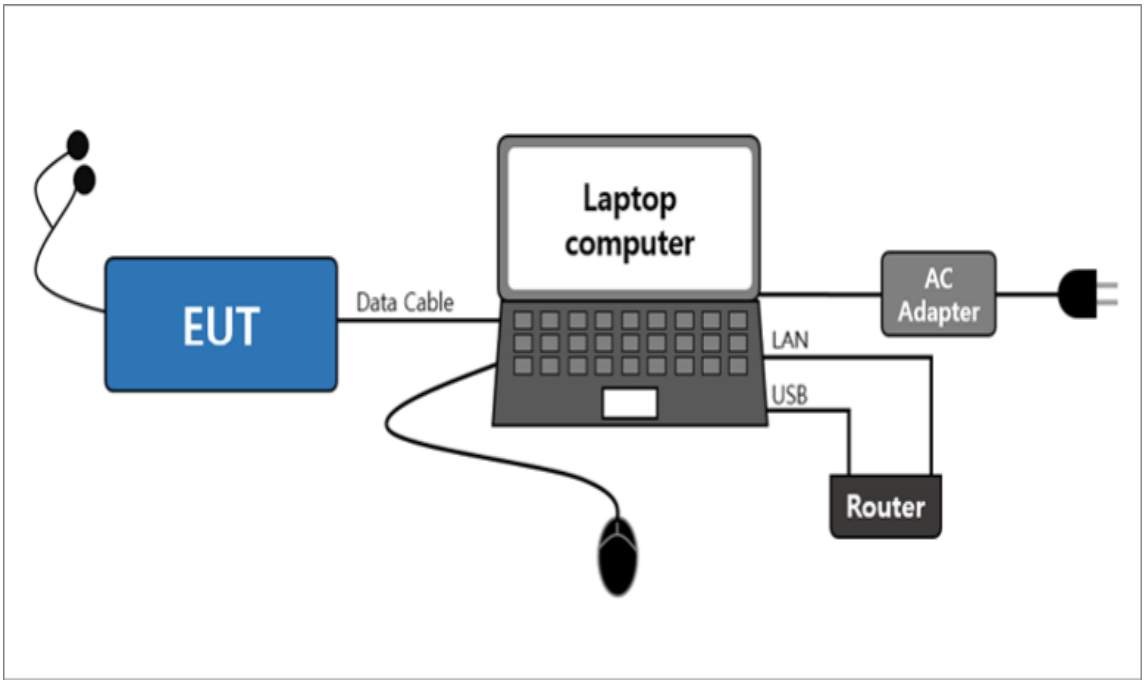
Connected cable	Length [m]	Shielded [Y/N]	Note
Data Cable	1.0	Y	From EUT to Laptop Computer or Travel Adapter
Headset	1.2	N	For EUT
Power	1.8	N	From Laptop Computer to AC Adapter
Power	1.5	N	For Laptop AC Adapter
LAN	1.5	N	From Laptop Computer to Router
USB	0.8	Y	From Laptop Computer to Router for DC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

4.5 Test arrangement

4.5.1 Conducted Emission

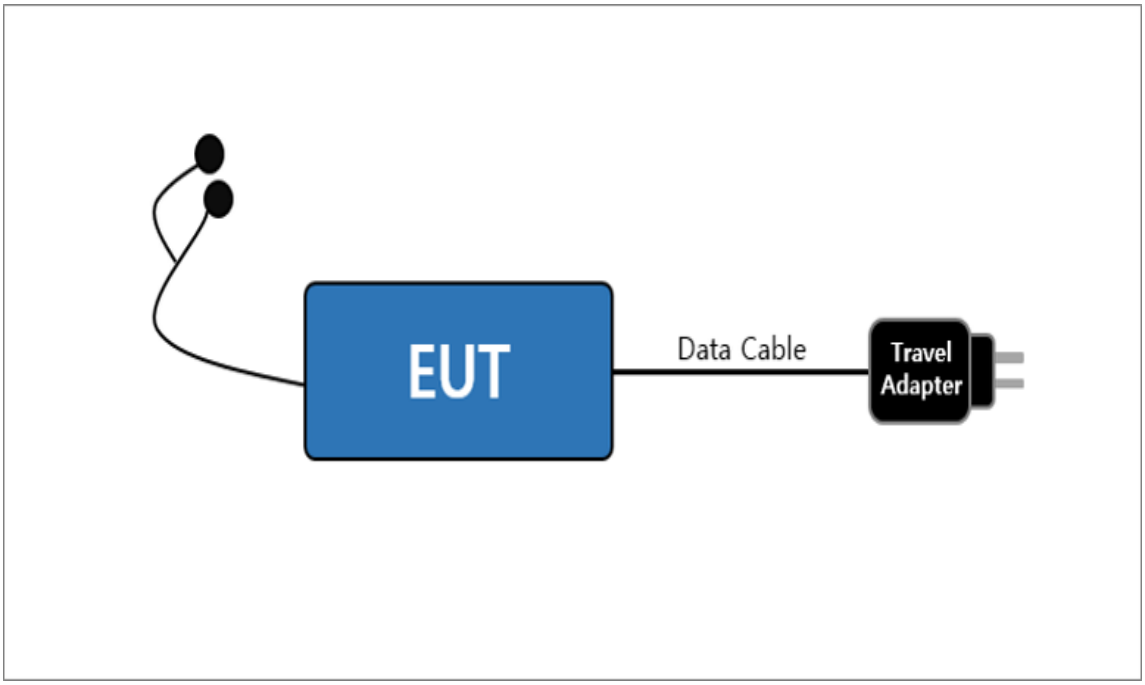


[Mode 1 – 3]

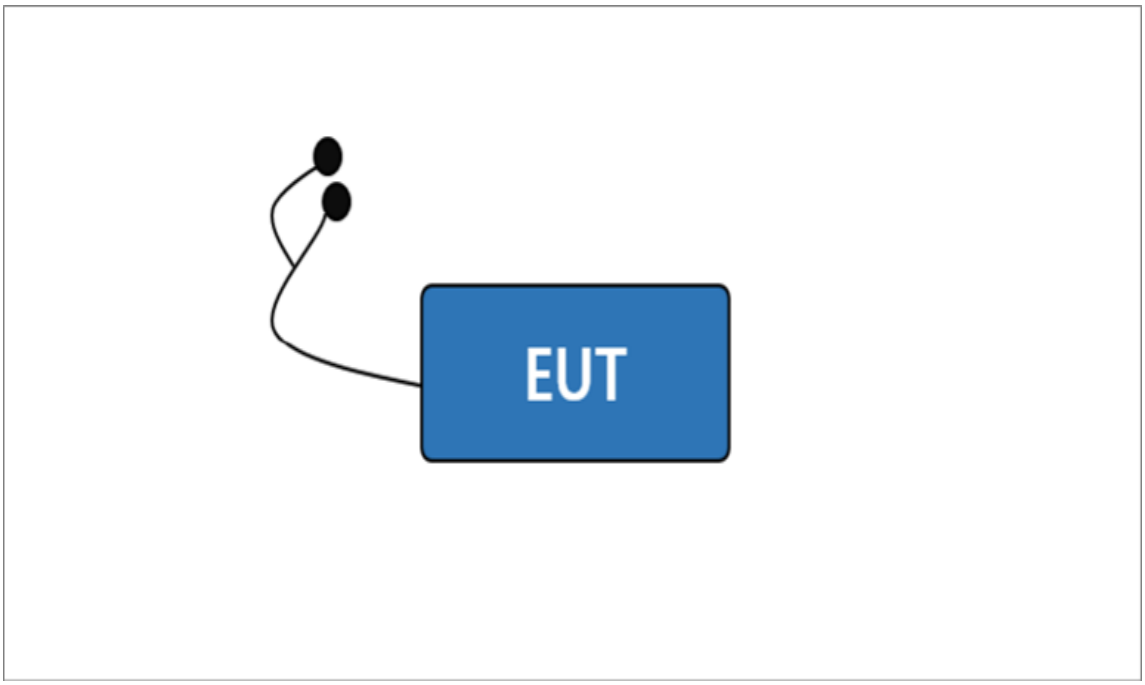


[Mode 4]

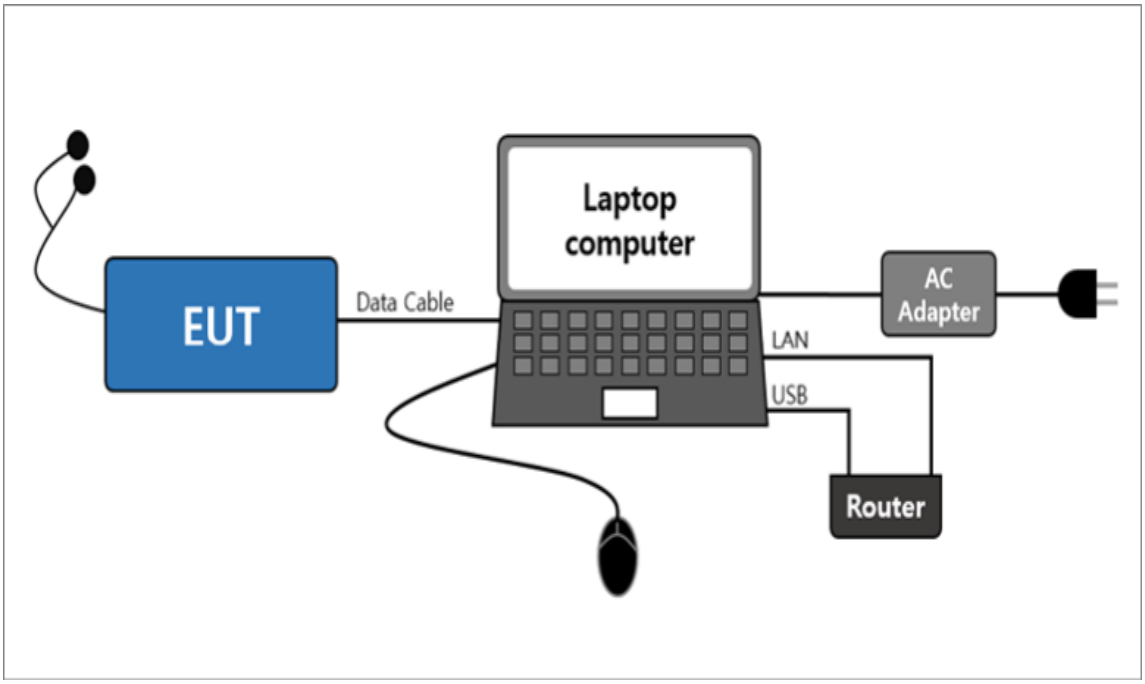
4.5.2 Radiated Emission



[Mode 1]



[Mode 2 – 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 FDD 1/2/4/5/8, LTE FDD 1/2/3/4/5/7/12/13/14/20/25/26/28/29/30/66/71, LTE TDD 38/39/40/41/48, 5G NR n2/5/25/29/41/48/66/70/71/77/78 and incorporates a Bluetooth, Wi-Fi (802.11 b/g/n/a/ac), Camera, Audio, Video, GNSS, microSD Card and NFC.

4.6.1 The variant models

- SM-A156U1/DS, SM-A156W, SM-S156V

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 microSD 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.

For the AC conducted emissions test, the conducted emissions of receiver modes which operate within the frequency range of 30-960 MHz were compared through preliminary tests. However, no significant differences were found to affect the conducted emission, so the test result for one representative receiver frequency band (LTE FDD26) were reported.

The video and audio(1 kHz sound) were repetitively played with the headset connected.

The camera of the EUT was operated continuously.

Power source for the EUT operating was supplied by CVCF.

- 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	5.05 dB
	Vertical	5.84 dB
Radiated Emission (Above 1 GHz)	Horizontal	5.18 dB
	Vertical	5.18 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(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

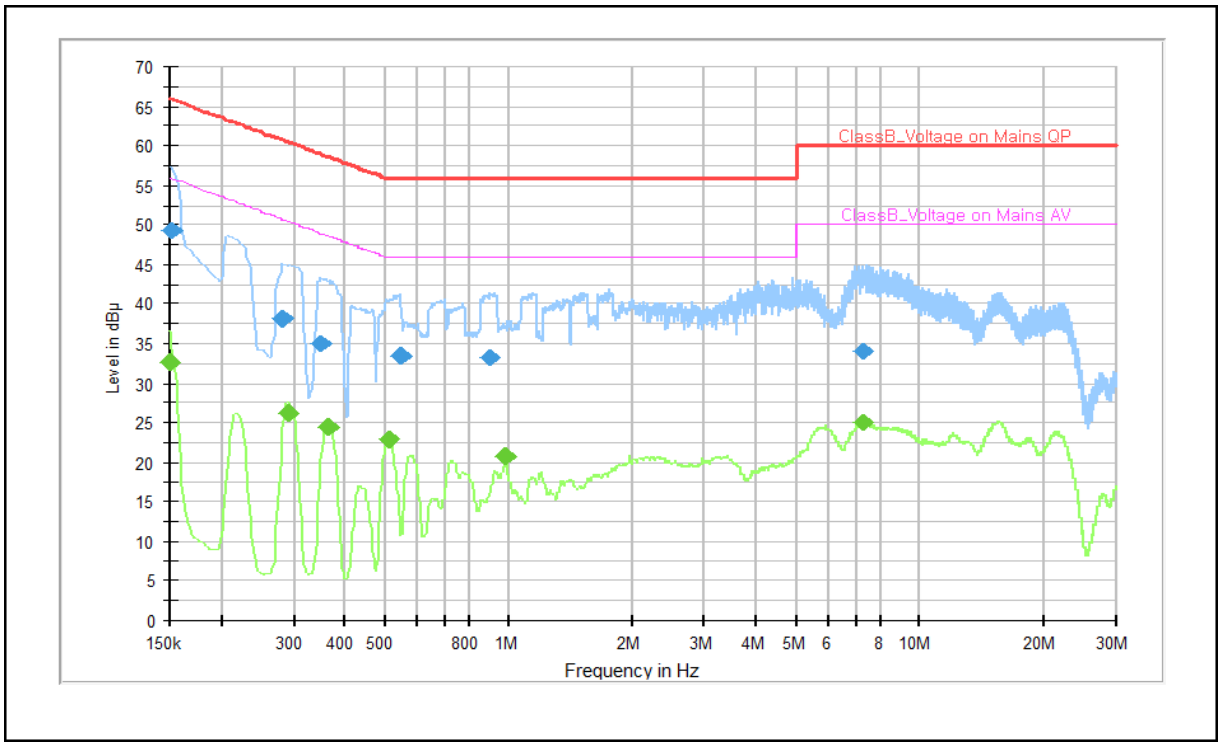
EMC No.	Test Instrument	Model name	Manufacturer	Serial No.	Next Calibration	
					Date	Interval (Month)
E5I-006	LTE Communicator	CMW500	R&S	132728	2024-04-05	12
E5I-127	Two-Line V-Network	ENV216	R&S	102061	2024-01-20	12
E5I-247	EMI Test Receiver	ESW8	R&S	103124	2024-07-21	12
-	Test software	EMC32	R&S	Ver 10.60.20	-	-

5.1.2 Temperature and humidity condition

Test date	2023-10-16	Test engineer	Soo-Joon Kim
Climate condition	Ambient temperature	(23.8 ± 1.0) ℃	Limit (15.0 to 35.0) ℃
	Humidity	(43.3 ± 1.0) % R.H.	Limit (25.0 to 75.0) % R.H.
	Atmospheric pressure	(101.2 ± 1.0) kPa	Limit (86.0 to 106.0) kPa
Test place	Shield Room (SR8)		

5.1.3 Test Results

□ Operating Mode 1: AC Mains



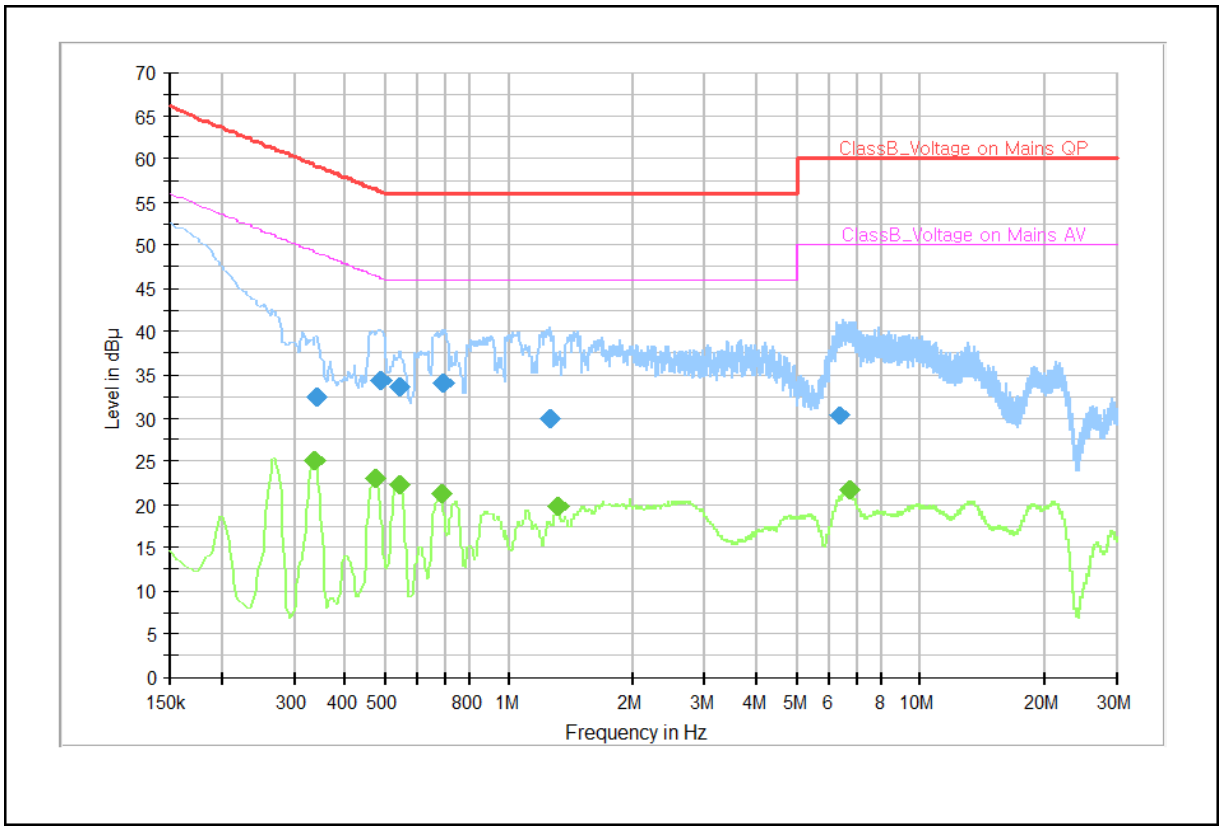
Note 1) Two graphs measured for both Live(L1) and Neutral(N) of the LISN are combined into one graph.

QP / CAV final measurement results table:

Frequency (MHz)	QP (dBµV)	CAV (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)
0.150	---	32.7	56.0	23.3	N	10.0
0.152	49.2	---	65.9	16.7	N	10.0
0.283	38.2	---	60.7	22.6	L1	10.0
0.292	---	26.3	50.5	24.2	N	9.9
0.350	35.0	---	59.0	24.0	N	10.1
0.364	---	24.5	48.6	24.1	N	10.2
0.510	---	22.8	46.0	23.2	N	10.2
0.546	33.5	---	56.0	22.5	L1	10.2
0.899	33.3	---	56.0	22.7	L1	10.0
0.985	---	20.8	46.0	25.2	N	9.9
7.251	34.1	---	60.0	25.9	L1	10.0
7.289	---	24.9	50.0	25.1	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 2: AC Mains



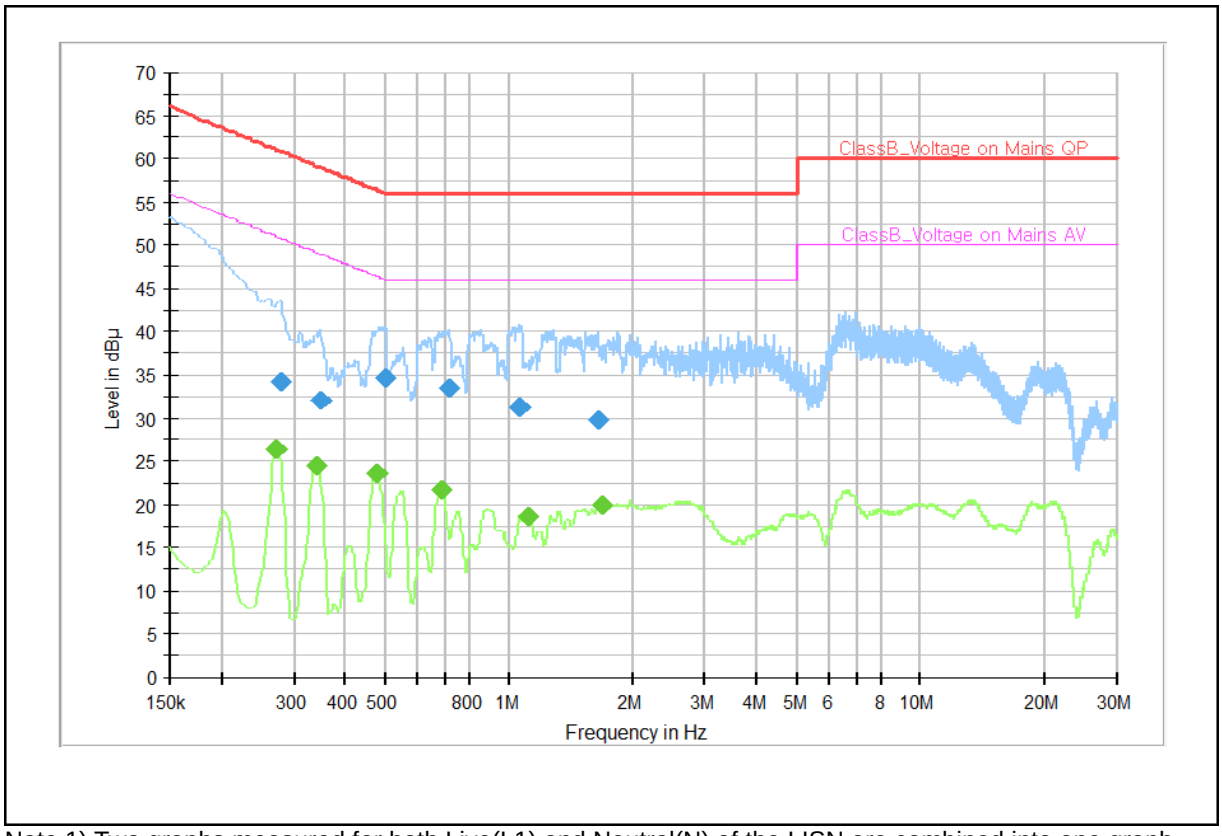
Note 1) Two graphs measured for both Live(L1) and Neutral(N) of the LISN are combined into one graph.

QP / CAV final measurement results table:

Frequency (MHz)	QP (dBµV)	CAV (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)
0.337	---	25.0	49.3	24.3	N	10.1
0.341	32.4	---	59.2	26.7	L1	10.1
0.474	---	23.1	46.4	23.4	N	10.2
0.490	34.3	---	56.2	21.8	N	10.2
0.542	---	22.2	46.0	23.8	N	10.2
0.544	33.7	---	56.0	22.3	N	10.2
0.683	---	21.4	46.0	24.6	N	10.1
0.690	34.1	---	56.0	21.9	N	10.1
1.262	29.9	---	56.0	26.1	L1	10.0
1.313	---	19.7	46.0	26.3	N	9.9
6.320	30.2	---	60.0	29.8	L1	10.0
6.702	---	21.6	50.0	28.4	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 3: AC Mains



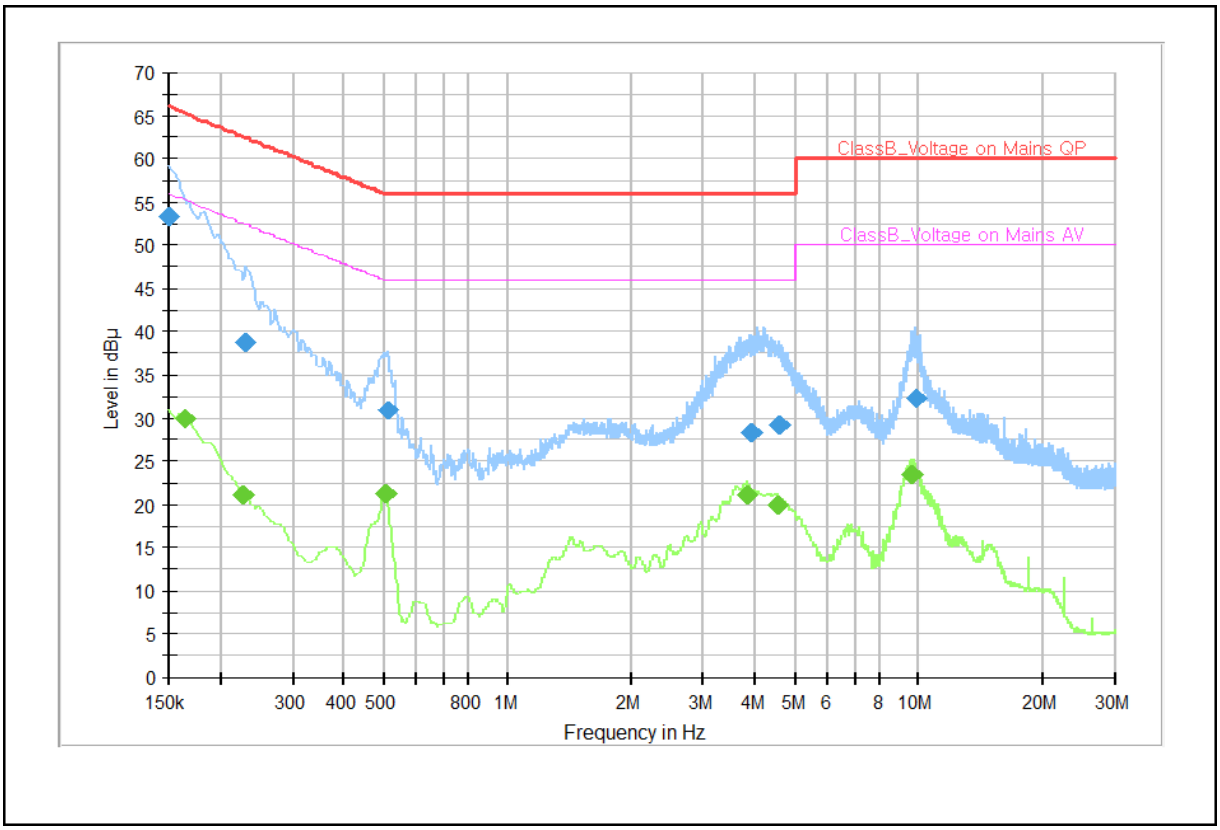
Note 1) Two graphs measured for both Live(L1) and Neutral(N) of the LISN are combined into one graph.

QP / CAV final measurement results table:

Frequency (MHz)	QP (dBµV)	CAV (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)
0.274	---	26.4	51.0	24.6	N	9.9
0.278	34.1	---	60.9	26.7	L1	9.9
0.341	---	24.5	49.2	24.7	N	10.1
0.348	32.2	---	59.0	26.9	L1	10.1
0.479	---	23.6	46.4	22.8	N	10.2
0.501	34.6	---	56.0	21.4	N	10.2
0.686	---	21.6	46.0	24.4	N	10.1
0.717	33.4	---	56.0	22.6	N	10.1
1.068	31.2	---	56.0	24.8	L1	10.0
1.115	---	18.5	46.0	27.5	N	9.9
1.640	29.8	---	56.0	26.2	L1	10.0
1.682	---	19.9	46.0	26.1	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

□ 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	53.4	---	66.0	12.6	L1	9.9
0.164	---	29.9	55.3	25.4	L1	10.1
0.227	---	21.1	52.6	31.5	L1	9.8
0.231	38.8	---	62.4	23.7	N	9.8
0.503	---	21.3	46.0	24.7	L1	10.0
0.510	30.9	---	56.0	25.1	L1	10.0
3.818	---	21.0	46.0	25.0	N	9.8
3.912	28.4	---	56.0	27.6	N	9.8
4.524	---	20.0	46.0	26.0	L1	9.8
4.567	29.2	---	56.0	26.8	N	9.8
9.677	---	23.5	50.0	26.5	L1	9.8
9.832	32.3	---	60.0	27.7	L1	9.8

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 [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 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	2024-01-30	12
E5I-017	EMI Test Receiver	ESU8	R&S	100483	2024-01-27	12
E5I-248	EMI Test Receiver	ESW44	R&S	103129	2024-07-21	12
E5I-070	BiLog Antenna	CBL6112D	TESEQ	35383	2025-07-21	24
E5I-228	6 dB Fixed Attenuator	8491B-006	Agilent	58358	2025-07-21	24
E5I-121	BiLog Antenna	CBL6112D	TESEQ	36999	2025-07-21	24
E5I-137	6 dB Fixed Attenuator	8491A	Keysight	MY52462298	2025-07-21	24
E5I-093	Preamplifier	310N	SONOMA	273122	2024-01-17	12
E5I-094	Preamplifier	310N	SONOMA	282363	2024-01-17	12
E5I-035	Horn Antenna	HF907	R&S	100506	2023-10-25	12
E5I-039	Signal Conditioning Unit	SCU-18	R&S	10211	2024-04-05	12
E5I-243	WideBand Horn Antenna	QMS-00880	STEATITE	25187	2023-11-23	12
E5I-042	Signal Conditioning Unit	SCU-40A	R&S	10004	2024-09-21	12
-	Test software	EP7RE	TOYO	Ver 8.0.20	-	-
-	Test software	EMC32	R&S	Ver 10.60.20	-	-

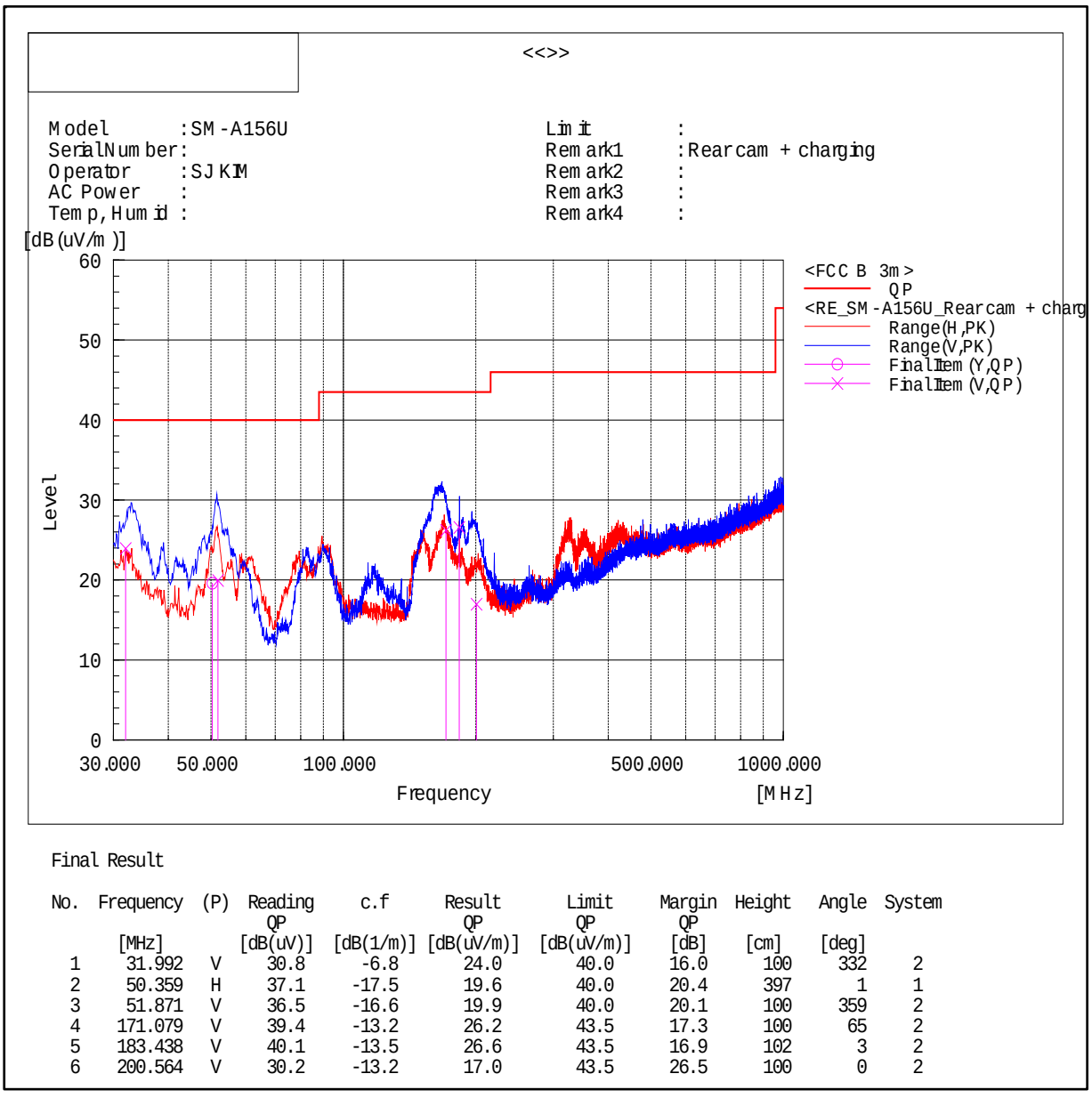
5.2.2 Temperature and humidity condition

Test date	2023-10-13	**Test engineer**	Soo-Joon Kim
Climate condition	Ambient temperature	(21.8 ± 1.0) ℃	Limit (15.0 to 35.0) ℃
	Humidity	(46.4 ± 1.0) % R.H.	Limit (25.0 to 75.0) % R.H.
	Atmospheric pressure	(101.6 ± 1.0) 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



Final Result

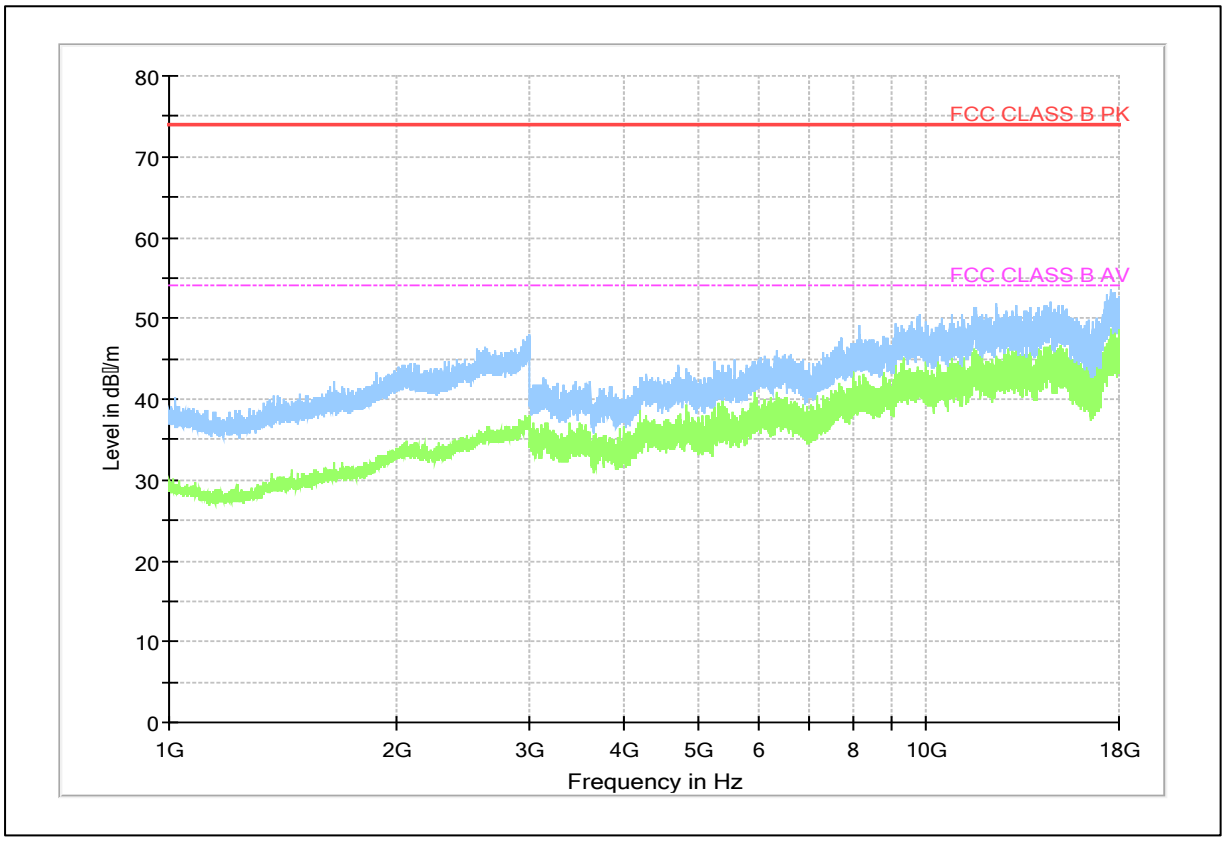
No.	Frequency	(P)	Reading QP	c.f	Result QP	Limit QP	Margin QP	Height	Angle	System
	[MHz]		[dB(uV)]	[dB(1/m)]	[dB(uV/m)]	[dB(uV/m)]	[dB]	[cm]	[deg]	
1	31.992	V	30.8	-6.8	24.0	40.0	16.0	100	332	2
2	50.359	H	37.1	-17.5	19.6	40.0	20.4	397	1	1
3	51.871	V	36.5	-16.6	19.9	40.0	20.1	100	359	2
4	171.079	V	39.4	-13.2	26.2	43.5	17.3	100	65	2
5	183.438	V	40.1	-13.5	26.6	43.5	16.9	102	3	2
6	200.564	V	30.2	-13.2	17.0	43.5	26.5	100	0	2

Note1) 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.

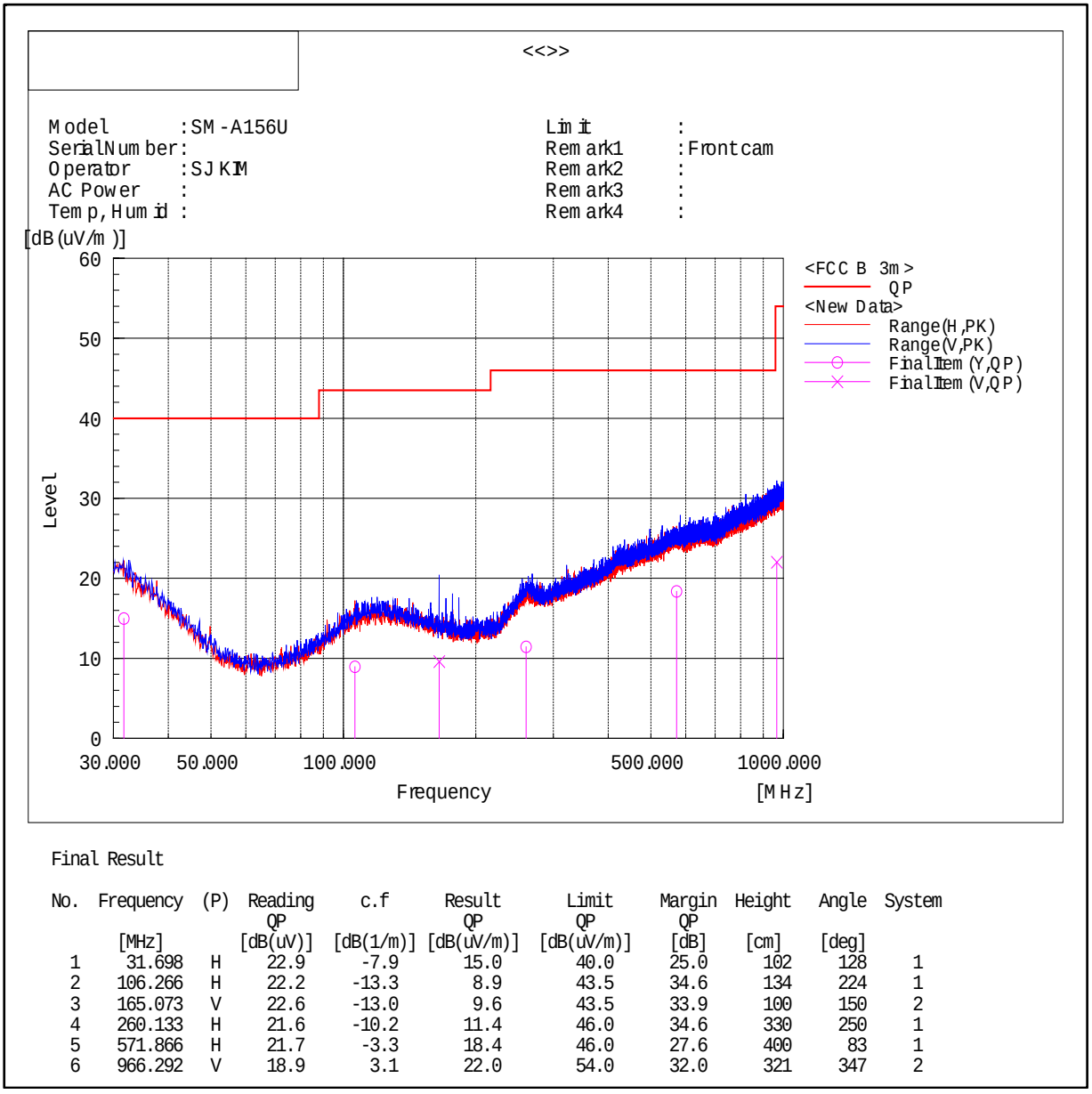
Note 2) Level (PK and/or CAV) = Reading (PK and/or CAV) + Corr. (Antenna Factor + Cable Loss - Amp. Gain)

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

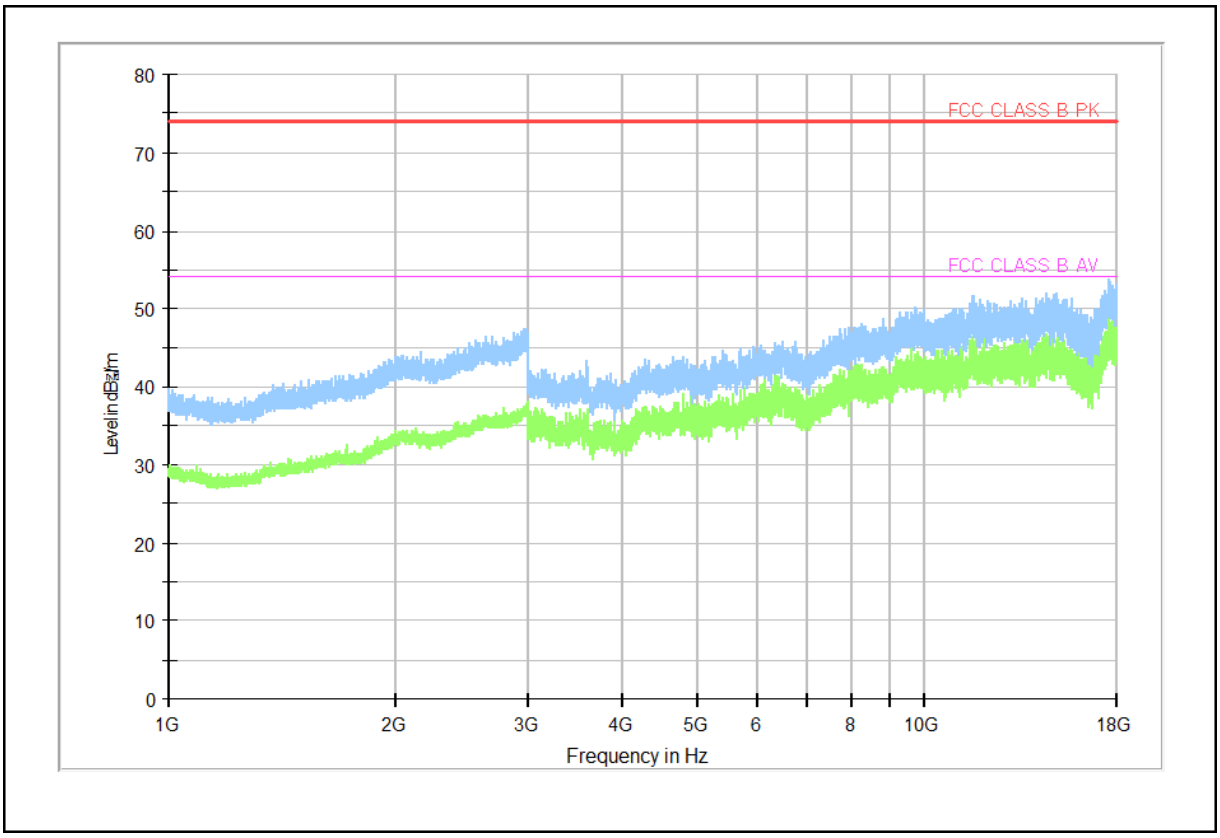
No.	Frequency [MHz]	(P)	Reading QP [dB(uV)]	c.f [dB(1/m)]	Result QP [dB(uV/m)]	Limit QP [dB(uV/m)]	Margin QP [dB]	Height [cm]	Angle [deg]	System
1	31.698	H	22.9	-7.9	15.0	40.0	25.0	102	128	1
2	106.266	H	22.2	-13.3	8.9	43.5	34.6	134	224	1
3	165.073	V	22.6	-13.0	9.6	43.5	33.9	100	150	2
4	260.133	H	21.6	-10.2	11.4	46.0	34.6	330	250	1
5	571.866	H	21.7	-3.3	18.4	46.0	27.6	400	83	1
6	966.292	V	18.9	3.1	22.0	54.0	32.0	321	347	2

Note1) 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.

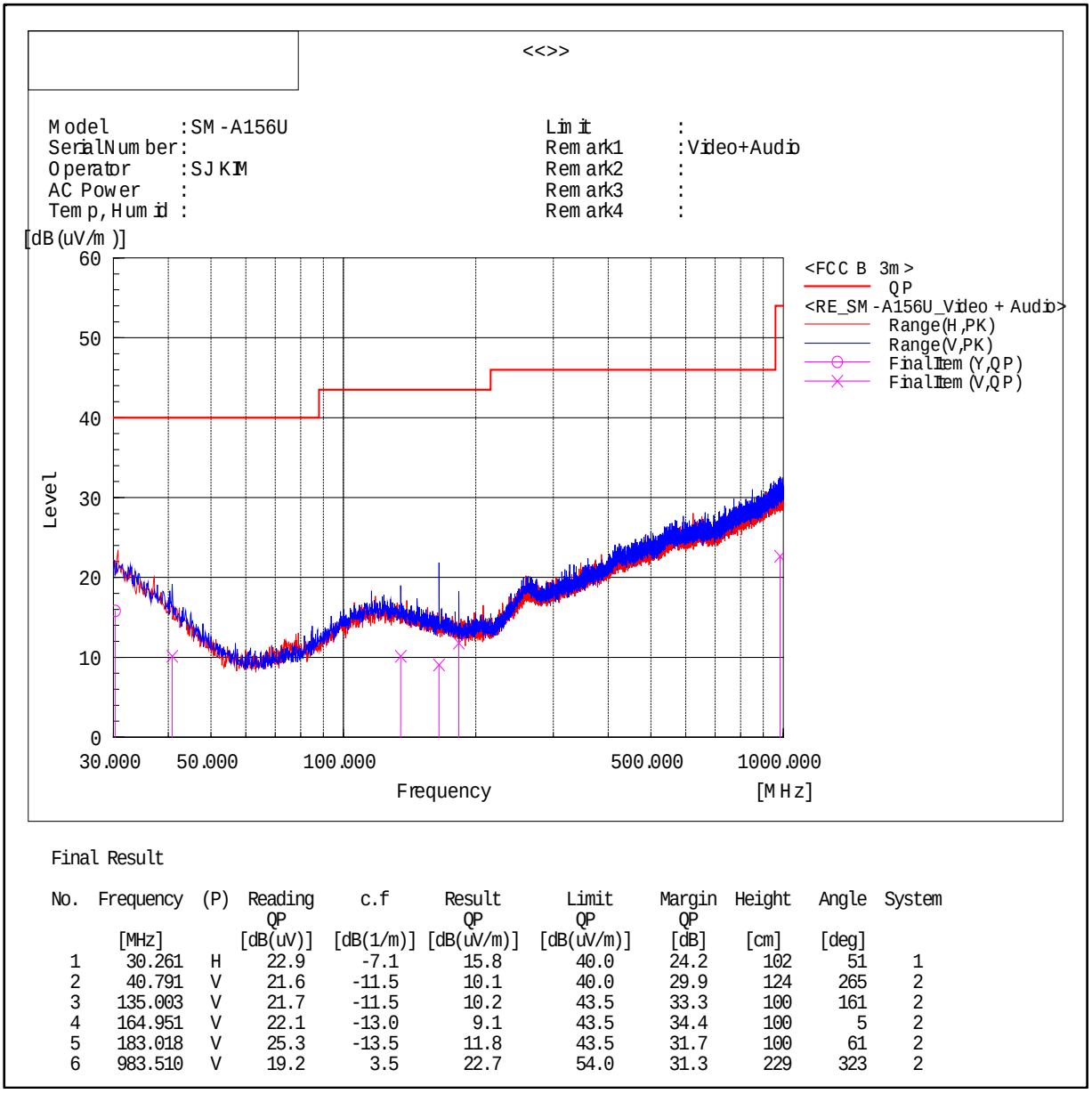
Note 2) Level (PK and/or CAV) = Reading (PK and/or CAV) + Corr. (Antenna Factor + Cable Loss - Amp. Gain)

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



Final Result

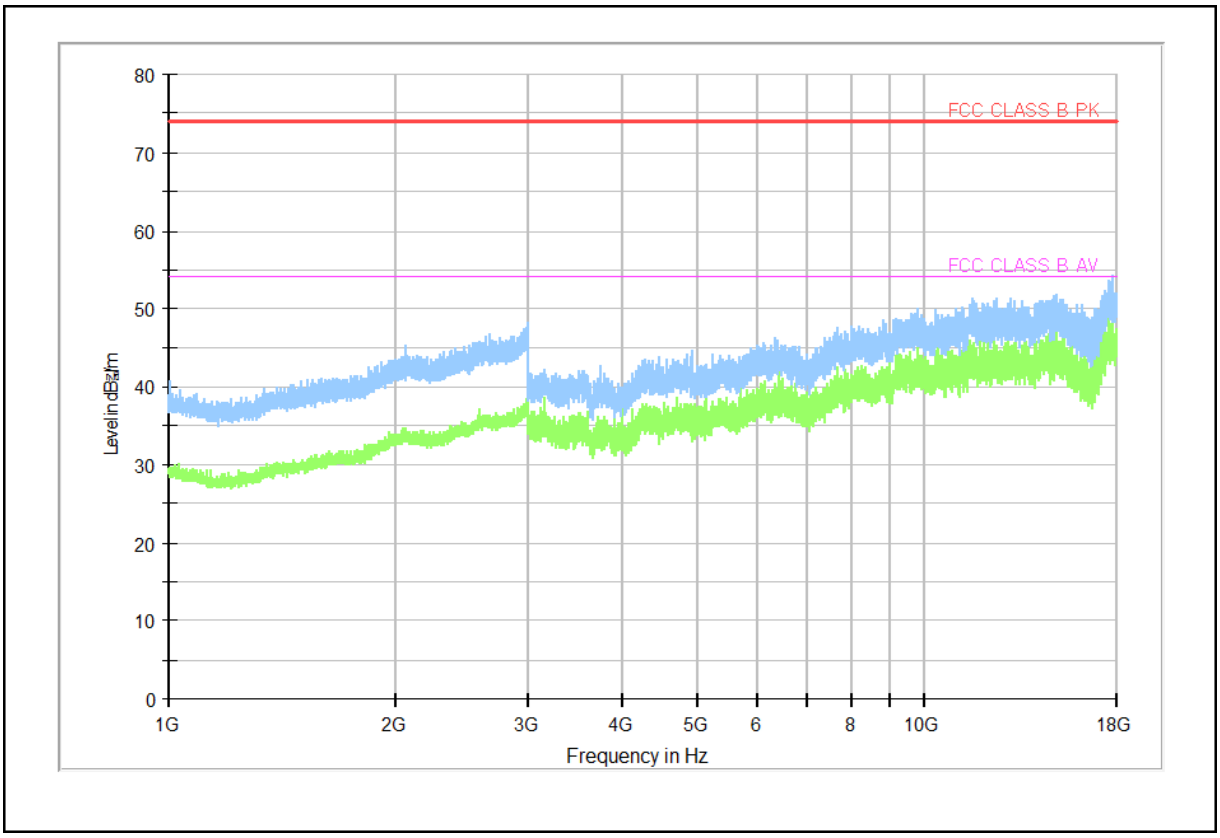
No.	Frequency [MHz]	(P)	Reading QP [dB(uV)]	c.f [dB(1/m)]	Result QP [dB(uV/m)]	Limit QP [dB(uV/m)]	Margin QP [dB]	Height [cm]	Angle [deg]	System
1	30.261	H	22.9	-7.1	15.8	40.0	24.2	102	51	1
2	40.791	V	21.6	-11.5	10.1	40.0	29.9	124	265	2
3	135.003	V	21.7	-11.5	10.2	43.5	33.3	100	161	2
4	164.951	V	22.1	-13.0	9.1	43.5	34.4	100	5	2
5	183.018	V	25.3	-13.5	11.8	43.5	31.7	100	61	2
6	983.510	V	19.2	3.5	22.7	54.0	31.3	229	323	2

Note1) 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.

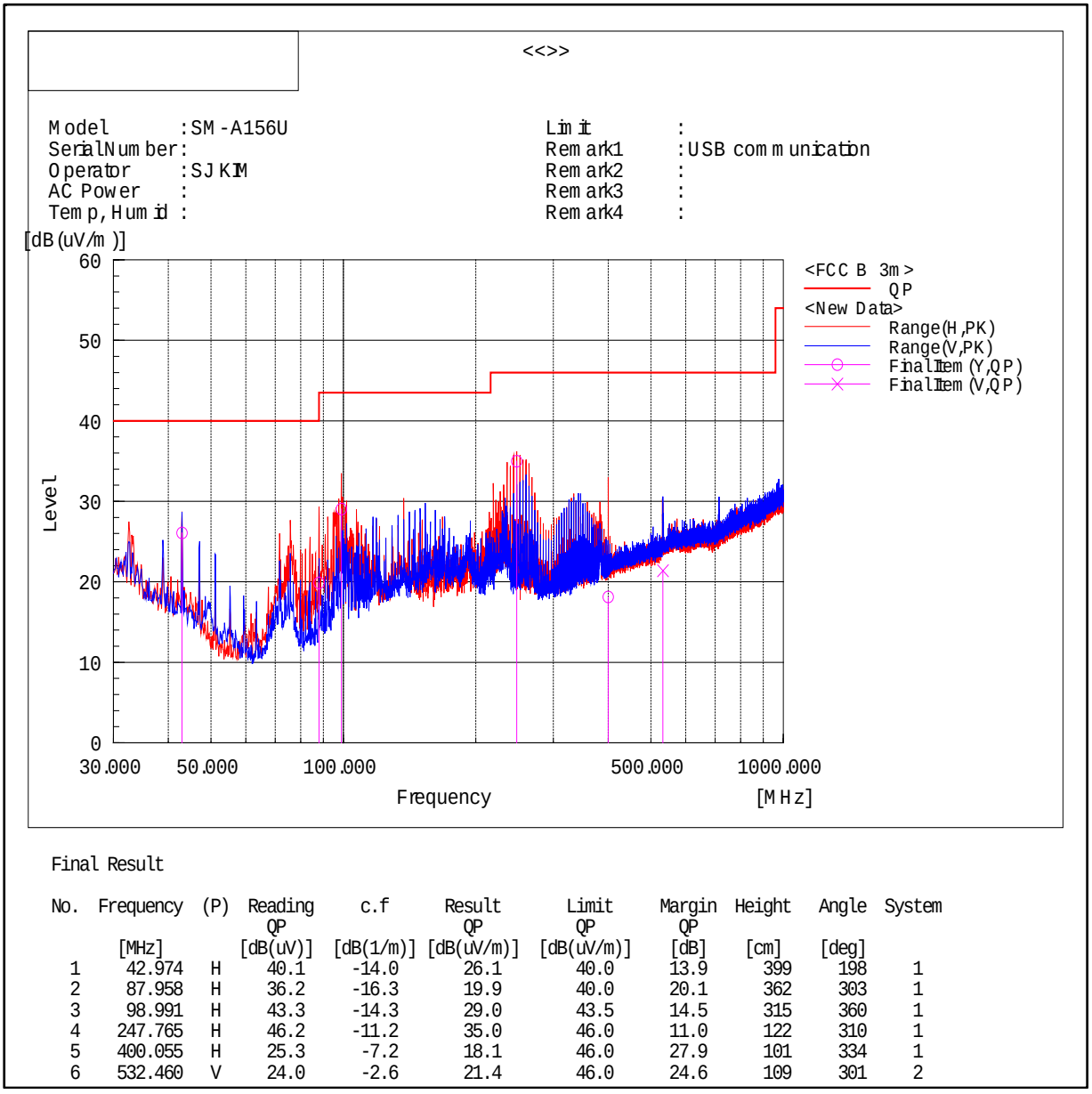
Note 2) Level (PK and/or CAV) = Reading (PK and/or CAV) + Corr. (Antenna Factor + Cable Loss - Amp. Gain)

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

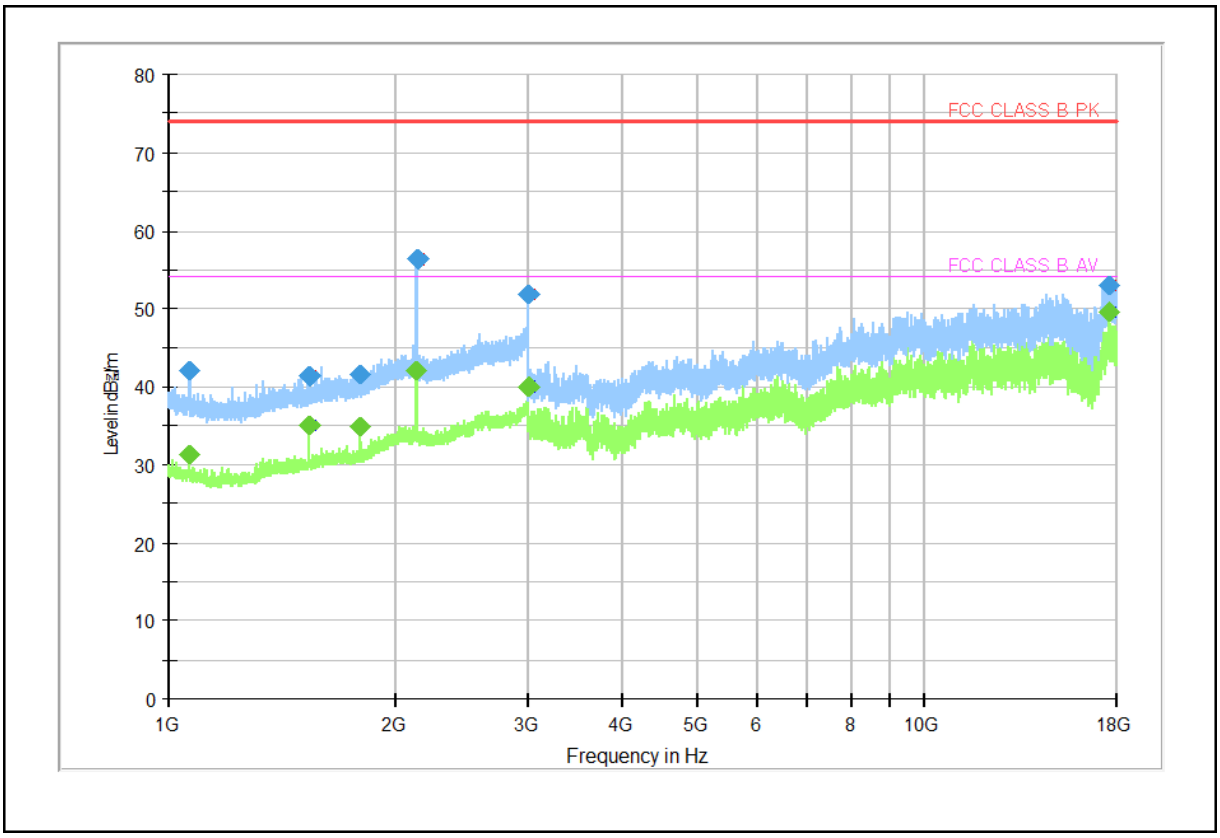
No.	Frequency [MHz]	(P)	Reading QP [dB(uV)]	c.f [dB(1/m)]	Result QP [dB(uV/m)]	Limit QP [dB(uV/m)]	Margin QP [dB]	Height [cm]	Angle [deg]	System
1	42.974	H	40.1	-14.0	26.1	40.0	13.9	399	198	1
2	87.958	H	36.2	-16.3	19.9	40.0	20.1	362	303	1
3	98.991	H	43.3	-14.3	29.0	43.5	14.5	315	360	1
4	247.765	H	46.2	-11.2	35.0	46.0	11.0	122	310	1
5	400.055	H	25.3	-7.2	18.1	46.0	27.9	101	334	1
6	532.460	V	24.0	-2.6	21.4	46.0	24.6	109	301	2

Note1) 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)
1 063.200	---	31.32	54.00	22.68	101.1	H	306.00	10.10
1 063.200	41.95	---	74.00	32.05	100.0	H	306.00	10.10
1 535.600	---	35.17	54.00	18.83	100.0	H	6.00	13.00
1 535.800	41.31	---	74.00	32.69	101.3	H	6.00	13.00
1 792.000	41.63	---	74.00	32.37	100.4	H	59.00	14.30
1 793.400	---	34.94	54.00	19.06	100.0	H	0.00	14.30
2 125.000	---	42.00	54.00	12.00	100.2	V	301.00	17.00
2 132.200	56.25	---	74.00	17.75	100.5	V	26.00	16.90
2 992.800	---	39.99	54.00	14.01	100.9	V	135.00	21.30
2 992.800	51.88	---	74.00	22.12	100.1	V	135.00	21.30
17 539.000	---	49.54	54.00	4.46	100.7	H	90.00	40.40
17 544.000	52.99	---	74.00	21.01	100.1	V	33.00	40.40

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

Note 2) 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