CTK Co., Ltd.
386-1, Ho-dong, Cheoin-gu, Yongin-si, Gyeonggi-do, 449-100, Korea
Tel: +82-31-339-9970 Fax: +82-31-339-9855
www.e-ctk.com

EMC TEST REPORT For FCC

Test Report No.	:	2011060063
Date of Issue	:	June 22, 2011
Model/Type No.	:	LK-P31
Kind of Product	:	Mobile Printer
Applicant	:	SEWOO TECH CO., LTD
Applicant Address	:	A 502~508, Digital Empire Bldg, 980-3, Yeongtong-dong, Yeongtong-Gu, Suwon-si, Gyeonggi-Do, Korea 443-813
Manufacturer	:	SEWOO TECH CO., LTD
Manufacturer Address	:	A 502~508, Digital Empire Bldg, 980-3, Yeongtong-dong, Yeongtong-Gu, Suwon-si, Gyeonggi-Do, Korea 443-813
Contact Person	:	Jae-keun, Hwang / Assistant Research Engineer
Telephone	:	+82-70-4035-3363
Received Date	:	April 29, 2011
Test period	:	Start : June 10, 2011 End : June 11, 2011
Test Results	:	☒ **In Compliance** ☐ **Not in Compliance**

The test results presented in this report relate only to the object tested.

Tested by

Lee Eun-Won
EMC Test Engineer
Date: June 22, 2011

Reviewed by

James Hong
EMC Technical Manager
Date: June 22, 2011

REPORT REVISION HISTORY

Date	Revision	Page No
June 22, 2011	Issued (2011060063)	All

This report shall not be reproduced except in full, without the written approval of CTK Co., Ltd. This document may be altered or revised by CTK Co., Ltd. personnel only, and shall be noted in the revision section of the document. Any alteration of this document not carried out by CTK Co., Ltd. will constitute fraud and shall nullify the document.

TABLE OF CONTENTS

1.0 General Product Description

1.0.1 Tested Equipment

☒ Unless otherwise indicated, all tests were conducted on Model LK-P31.
☐ Tests performed on Model _____ were considered to be representative of Model(s) _____.

1.0.2 Equipment Size, Mobility and Identification

Dimensions: 110(W) by 105(L) by 30(H) ☒ ㎜
Mobility: ☒ Table-top ☐ Floor-standing ☐ Built-in ☒ Portable
Serial No.: Prototype

1.0.3 Electrical Ratings

[Battery Charger] Input: 100-240 Vac, 50-60 ㎐, 0.2 A
Output: 8.4 Vdc, 0.8 A

[EUT] Input : 8.4 Vdc
Output : -

1.0.4 Test Voltage & Frequency

Unless indicated otherwise on the individual data sheet or test results, the test voltage and frequency was as indicated below.

Voltage: 120 Vac
Frequency: 60 ㎐

1.0.5 Clock & Other Frequencies Utilized

16 ㎒, 26 ㎒, 48 ㎒

1.1 Model Differences

Not applicable

1.2 Device Modifications

The following modifications were necessary for compliance:

Not applicable

1.3 EUT Configuration(s)

See Appendix A for individual test set-up configuration(s). The following peripheral devices and/or interface cables were connected during the measurement:

[Bluetooth mode]

☒ Peripheral Devices

Device	Manufacturer	Model No.	Serial No.
Notebook Computer	Samsung Electronics Co,.Ltd.	NY-R60Y	Z9GJ93GS302109B
AC ADAPTER	Suzhou Fordgood Electronic Co.,Ltd	LSE9901B1970	-
Bluetooth Dongle	ASUSTek Computer Inc.	WL-BTD201M	6B1060005197

☒ Cable Description

#	Description	Ferrite Core	Length (m)	Other Details
1	Wireless communication	-	-	Between the EUT and a Bluetooth Dongle
2	USB Port	-	-	Between a Bluetooth Dongle and a Notebook Computer
3	DC In Cable, Unshielded	No	1.2	Between an AC ADAPTER and a Notebook Computer
4	AC Power Cable, Unshielded	No	1.8	Connect to AC power

[USB mode]

☒ Peripheral Devices

Device	Manufacturer	Model No.	Serial No.
Notebook Computer	Samsung Electronics Co,.Ltd.	NY-R60Y	Z9GJ93GS302109B
AC ADAPTER	Suzhou Fordgood Electronic Co.,Ltd	LSE9901B1970	-

☒ Cable Description

#	Description	Ferrite Core	Length (m)	Other Details
1	USB Cable, Unshielded	No	0.6	Between the EUT and a Notebook Computer
2	DC In Cable, Unshielded	No	1.2	Between an AC ADAPTER and a Notebook Computer
3	AC Power Cable, Unshielded	No	1.8	Connect to AC power

[Battery Charger mode]

☒ Peripheral Devices

Device	Manufacturer	Model No.	Serial No.
Battery Charger (for EUT)	Teking Electronics Co,.Ltd	PAS08AA-W00801000	-

☒ Cable Description

#	Description	Ferrite Core	Length (m)	Other Details
1	DC In Cable, Unshielded	Yes	1.2	Between the EUTand a Battery Charger
2	AC Power	No	-	Connect to AC power

1.4 Test Software

☐ EMC Test V 1.0
☐ Display Test Patterns – V1.5
☐ Ping.exe
☒ 3POS100217 PROGRAM

1.5 EUT Operating Mode(s)

Equipment under test was operated during the measurement under the following conditions:

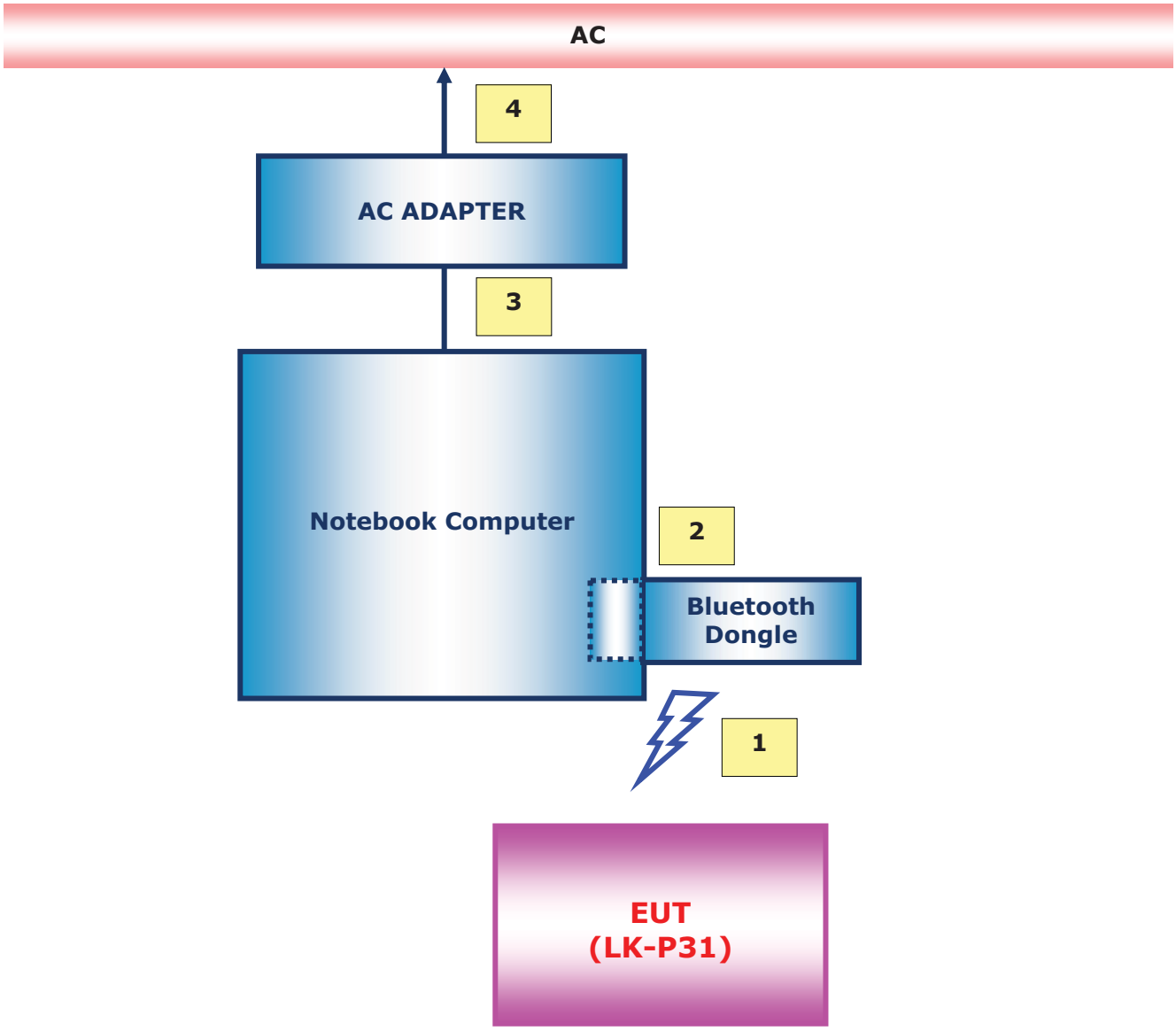
☐ Standby
☐ Display circles pattern
☒ Practice operation –
☐ Scrolling 'H'
☐ Read / Write

During the test, the EUT was connected to a Notebook Computer via a wireless communication or USB port port.
Battery Charger to charge the state.

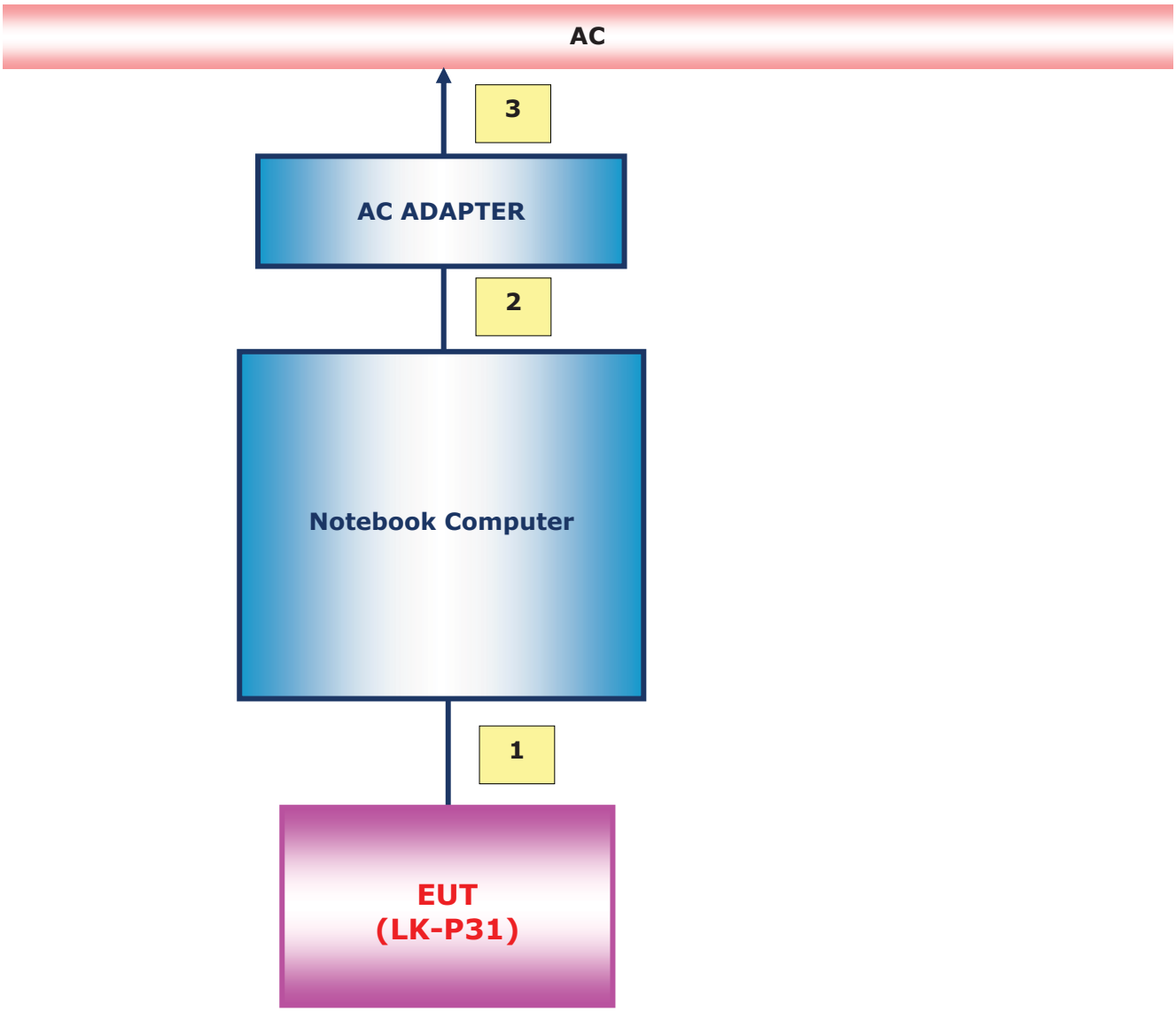
1) Bluetooth mode
2) USB mode
3) Battery Charger mode

1.6 Configuration

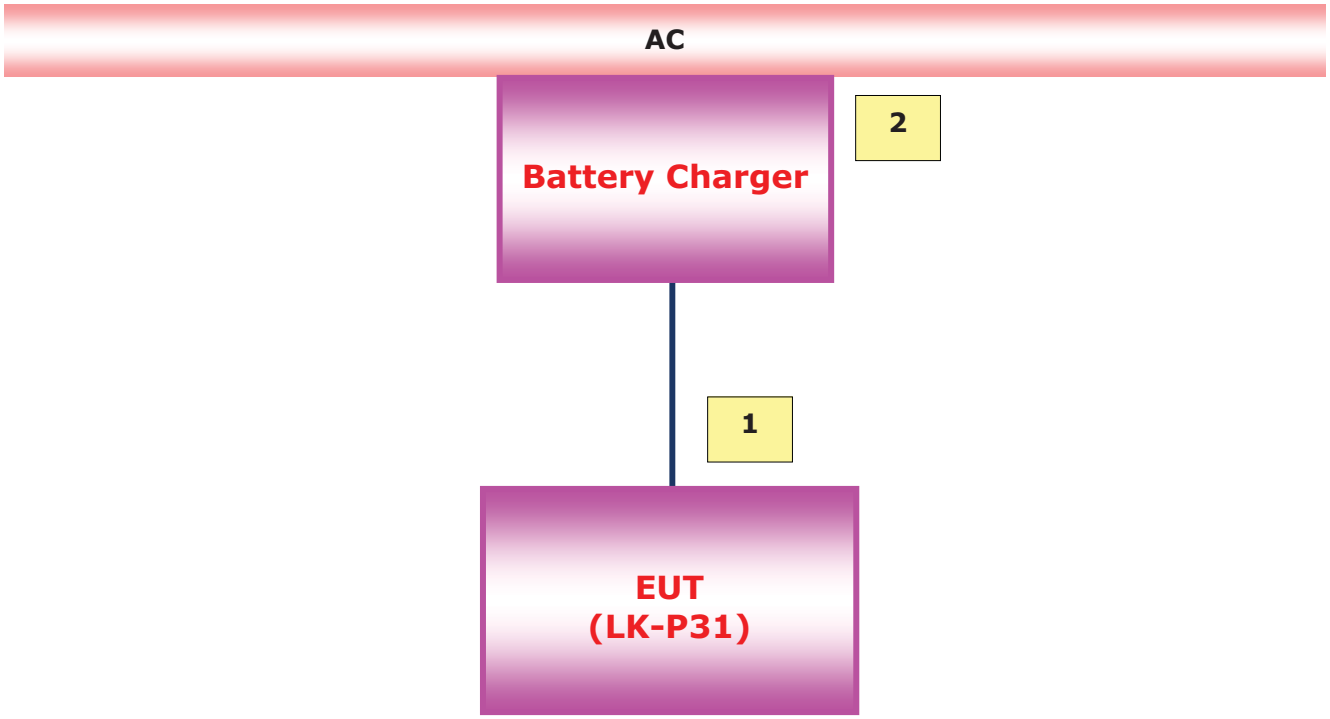
[Bluetooth mode]



[USB mode]



[Battery Charger mode]



1.7 Calibration Details of Equipment Used for Measurement

Test equipment and test accessories are calibrated on regular basis. The maximum time between calibrations is one year or what is recommended by the manufacturer, whichever is less. All test equipment calibrations are traceable to the Korea Research Institute of Standards and Science (KRISS), therefore, all test data recorded in this report is traceable to KRISS.

1.8 Test Facility

The measurement facility is located at 386-1, Ho-dong, Cheoin-gu, Yongin-si, Gyeonggi-do, 449-100, Korea. The sites are constructed in conformance with the requirements of ANSI C63.7, ANSI C63.4 and CISPR Publication 22.

1.9 Measurement Procedure

Preliminary AC power line conducted emissions tests were performed shielded room. To find worst mode, several typical mode and typical cable position were tested.
Final AC power line conducted emissions test was performed shielded room. (location is same as Preliminary test)
Based on the preliminary tests of the EUT, final test was proceeded worst case test mode and cable configuration.

Preliminary radiated emissions test were performed anechoic chamber (Distance of antenna and EUT was 3 m). To find worst mode, several typical mode and typical cable position were tested and peak level and frequency were recorded.

Final radiated emissions test was performed Open Area Test Site. Based on the preliminary tests of the EUT, final test was proceeded worst case test mode and cable configuration.

* Measurement procedures was In accordance with ANSI C63.4-2003 7.2.3, 7.2.4, 8.3.1.1, 8.3.1.2

Note : These results are deemed satisfactory evidence of compliance with ICES-003 of The Canadian Interference-Causing Equipment Regulations.

1.10 Laboratory Accreditations and Listings

Country	Agency	Scope of Accreditation	Logo
USA	**FCC**	3 m & 10 m Open Area Test Sites and Conducted Test Site to perform FCC Part 15/18 measurements	805871
JAPAN	**VCCI**	10 m Open Area Test Site and Conducted Test Site	R-948, C-986, T-1843
KOREA	**KCC**	EMI (10 m Open Area Test Site and Conducted Test Site) EMS (ESD, RS, EFT/Burst, Surge, CS, Magnetic, Dips and Interruptions)	No. 51, KR0025

2.0 Emissions Test Regulations

The emissions tests were performed according to following regulations:

☐ EN 61000-6-3:2007		
☐ EN 61000-6-4:2007		
☐ EN 55011:2007 +A2:2007	☐ Group 1 ☐ Class A	☐ Group 2 ☐ Class B
☐ EN 55013:2001 +A1:2003 +A2:2006		
☐ EN 55014-1:2006 ☐ EN 55014-1:2006 +A1:2009		
☐ EN 55015:2006 +A1:2007 +A2:2009		
☐ EN 61204-3:2000	☐ Class A	☐ Class B
☐ EN 61131-2:2007		
☐ EN 61326-1:2006	☐ Class A	☐ Class B
☐ EN 55022:2006 +A1:2007	☐ Class A	☐ Class B
☐ EN 61000-3-2:2006 +A1:2009 +A2:2009		
☐ EN 61000-3-3:2008		
☐ VCCI V-3/2010.04	☐ Class A	☐ Class B
☐ AS/NZS CISPR22:2006	☐ Class A	☐ Class B
☒ FCC Part 15 Subpart B	☐ Class A	☒ Class B
☐ CISPR 22:2006	☐ Class A	☐ Class B

2.1 Conducted Voltage Emissions

Test Date
June 10, 2011

Test Location
Shielded Room

Test Equipment

	Name of Equipment	Manufacturer	Model No.	Serial No.	Due Date
☒	EMI Test Receiver	Rohde & Schwarz	ESCI3	100032	2012-02-09
☒	LISN	Rohde & Schwarz	ENV216	101235	2011-08-13
☐	LISN	Rohde & Schwarz	ENV216	101236	2011-08-13
☐	EMI Test Receiver	Rohde & Schwarz	ESHS30	828144/002	2012-03-09
☐	LISN	Rohde & Schwarz	ENV216	101150	2012-02-10
☐	LISN	EMCO	3825/2	9607-2575	2011-07-09
☐	EMI Test Receiver	Rohde & Schwarz	ESHS30	862024/001	2012-03-24
☐	LISN	Rohde & Schwarz	ENV216	101151	2012-03-09
☐	LISN	Rohde & Schwarz	ESH3-Z5	100207	2011-11-15

Frequency Range of Measurement
150 ㎑ to 30 ㎒

Instrument Settings
IF Band Width: 9 ㎑

Test Results
The requirements are: ☒ MET ☐ NOT MET ☐ NOT APPLICABLE

Frequency (㎒)	Measured Data (dB㎶)	Margin (dB)	Remark
3.5385	38.4	7.6	Average (Bluetooth mode)

Remarks
See Appendix A for test data.

2.2 Radiated Electric Field Emissions

Test Date
June 11, 2011

Test Location
Testing was performed at a test distance of:
☐ 10 m OATS ☐ 3 m OATS
☐ 10 m SAC ☒ 3 m SAC

Test Equipment

	Name of Equipment	Manufacturer	Model No.	Serial No.	Due Date
☐	EMI Test Receiver	Rohde & Schwarz	ESVS30	826638/008	2011-07-12
☒	EMI Test Receiver	Rohde & Schwarz	ESCI7	100816	2011-12-15
☒	ULTRA Broadband Antenna	Rohde & Schwarz	HL562	361324/014	2011-11-18
☒	AMPLIFIER	Sonoma Instrument Co.	310	291721	2012-03-31
☐	Double Ridged Guide Antenna	ETS-Lindgren	3115	00078894	2013-03-22
☐	PREAMPLIFIER	Agilent Technologies	8449B	3008A02307	2011-11-16

Frequency Range of Measurement
☒ 30 ㎒ to 1 ㎓
☐ 1 ㎓ to __ ㎓

Instrument Settings
☒ IF Band Width: 120 ㎑
☐ IF Band Width: 1 ㎒

Test Results
The requirements are: ☒ MET ☐ NOT MET ☐ NOT APPLICABLE

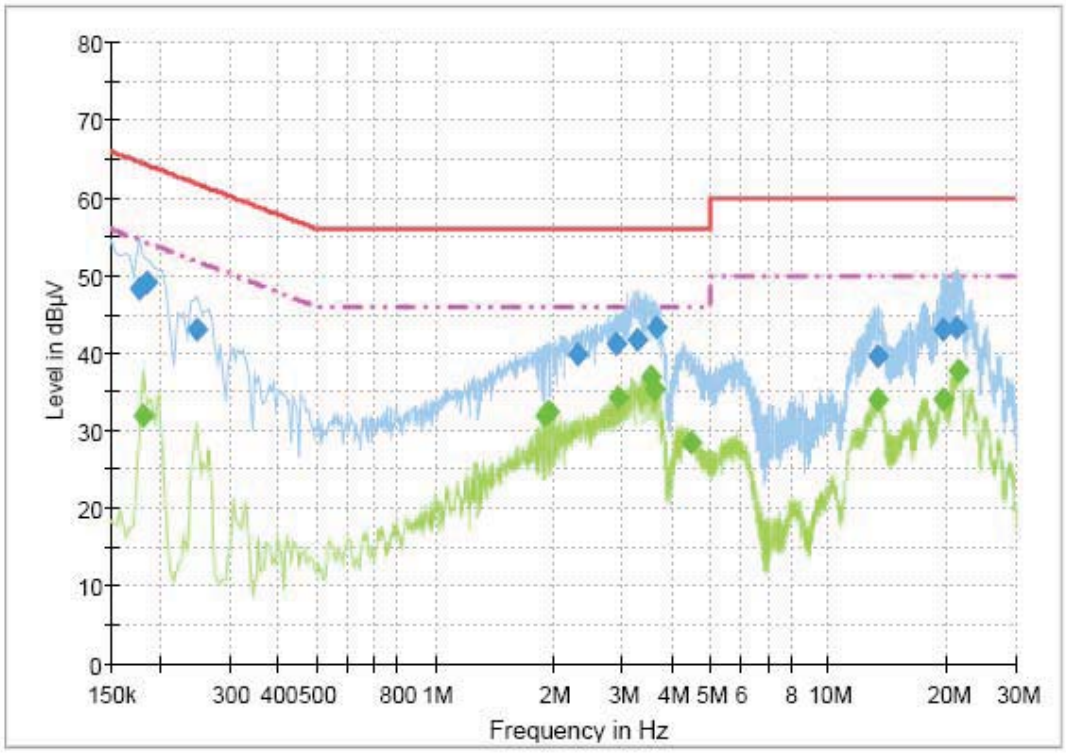
Frequency (㎒)	Measured Data (dBμV/m)	Margin (dB)	Remark
882.630	40.3	5.7	Quasi-peak (Bluetooth mode)

Remarks
See Appendix A for test data.

APPENDIX A – TEST DATA

Conducted Voltage Emissions

[Bluetooth mode : HOT]



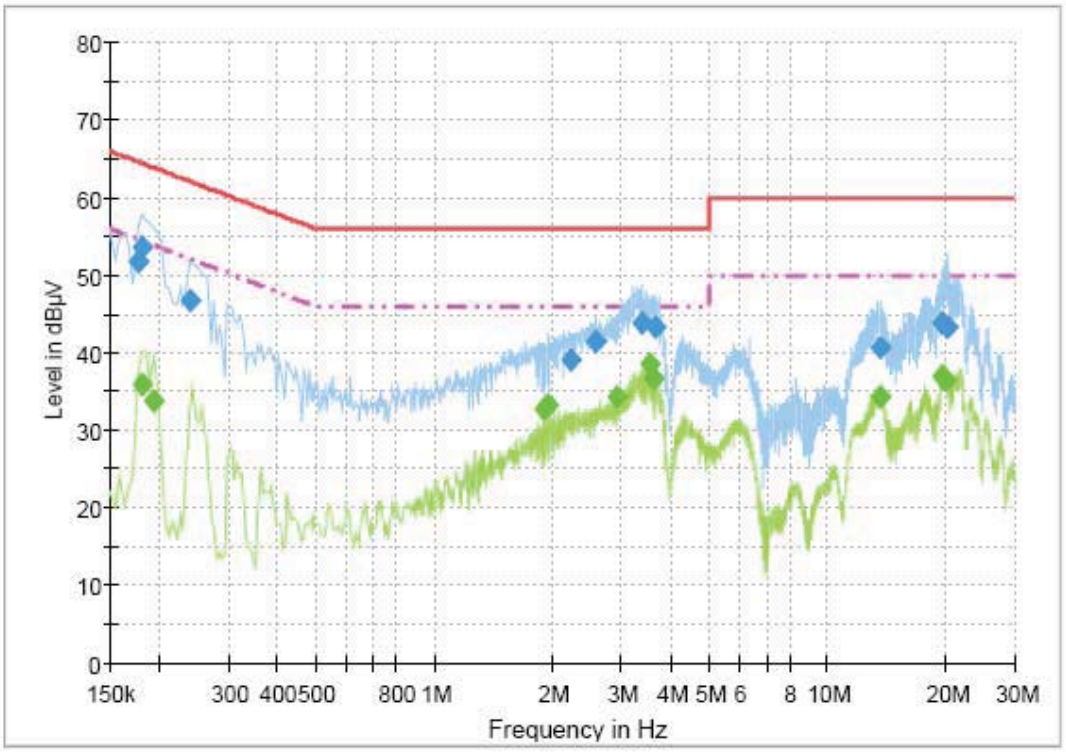
Final Result 1

Frequency (MHz)	QuasiPeak (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.177000	48.4	1000.0	9.000	On	L1	10.2	16.2	64.6
0.186000	49.2	1000.0	9.000	On	L1	10.1	15.0	64.2
0.249000	43.1	1000.0	9.000	On	L1	10.1	18.7	61.8
2.301000	40.0	1000.0	9.000	On	L1	9.9	16.0	56.0
2.899500	41.2	1000.0	9.000	On	L1	9.9	14.8	56.0
3.286500	41.8	1000.0	9.000	On	L1	9.9	14.2	56.0
3.660000	43.2	1000.0	9.000	On	L1	9.8	12.8	56.0
13.393500	39.6	1000.0	9.000	On	L1	9.9	20.4	60.0
19.612500	43.0	1000.0	9.000	On	L1	9.9	17.0	60.0
21.169500	43.4	1000.0	9.000	On	L1	9.9	16.6	60.0

Final Result 2

Frequency (MHz)	Average (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.181500	32.0	1000.0	9.000	On	L1	10.2	22.4	54.4
1.896000	31.9	1000.0	9.000	On	L1	9.9	14.1	46.0
1.959000	32.5	1000.0	9.000	On	L1	9.9	13.5	46.0
2.908500	34.3	1000.0	9.000	On	L1	9.9	11.7	46.0
3.538500	37.0	1000.0	9.000	On	L1	9.8	9.0	46.0
3.606000	35.3	1000.0	9.000	On	L1	9.8	10.7	46.0
4.474500	28.6	1000.0	9.000	On	L1	9.8	17.4	46.0
13.389000	34.1	1000.0	9.000	On	L1	9.9	15.9	50.0
19.549500	34.0	1000.0	9.000	On	L1	9.9	16.0	50.0
21.475500	37.6	1000.0	9.000	On	L1	9.9	12.4	50.0

[Bluetooth mode : NEUTRAL]



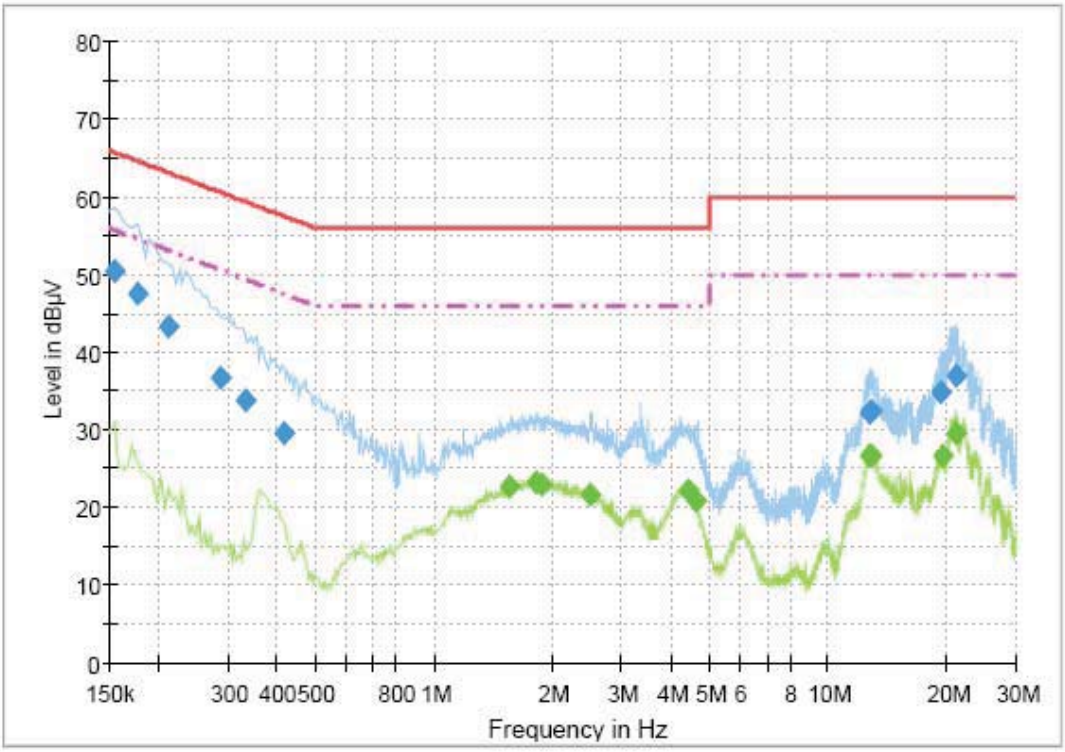
Final Result 1

Frequency (MHz)	QuasiPeak (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.177000	51.7	1000.0	9.000	On	N	10.2	12.9	64.6
0.181500	53.5	1000.0	9.000	On	N	10.2	10.9	64.4
0.240000	46.7	1000.0	9.000	On	N	10.0	15.4	62.1
2.224500	39.0	1000.0	9.000	On	N	9.9	17.0	56.0
2.589000	41.3	1000.0	9.000	On	N	9.9	14.7	56.0
3.381000	44.0	1000.0	9.000	On	N	9.8	12.0	56.0
3.664500	43.2	1000.0	9.000	On	N	9.8	12.8	56.0
13.623000	40.5	1000.0	9.000	On	N	9.9	19.5	60.0
19.590000	43.7	1000.0	9.000	On	N	10.0	16.3	60.0
20.206500	43.4	1000.0	9.000	On	N	10.0	16.6	60.0

Final Result 2

Frequency (MHz)	Average (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.181500	36.0	1000.0	9.000	On	N	10.2	18.4	54.4
0.195000	33.9	1000.0	9.000	On	N	10.0	19.9	53.8
1.896000	32.8	1000.0	9.000	On	N	9.9	13.2	46.0
1.959000	33.2	1000.0	9.000	On	N	9.9	12.8	46.0
2.913000	34.3	1000.0	9.000	On	N	9.9	11.7	46.0
3.538500	38.4	1000.0	9.000	On	N	9.8	7.6	46.0
3.601500	36.8	1000.0	9.000	On	N	9.8	9.2	46.0
13.605000	34.4	1000.0	9.000	On	N	9.9	15.6	50.0
19.626000	36.9	1000.0	9.000	On	N	10.0	13.1	50.0
19.972500	36.4	1000.0	9.000	On	N	10.0	13.6	50.0

[USB mode : HOT]



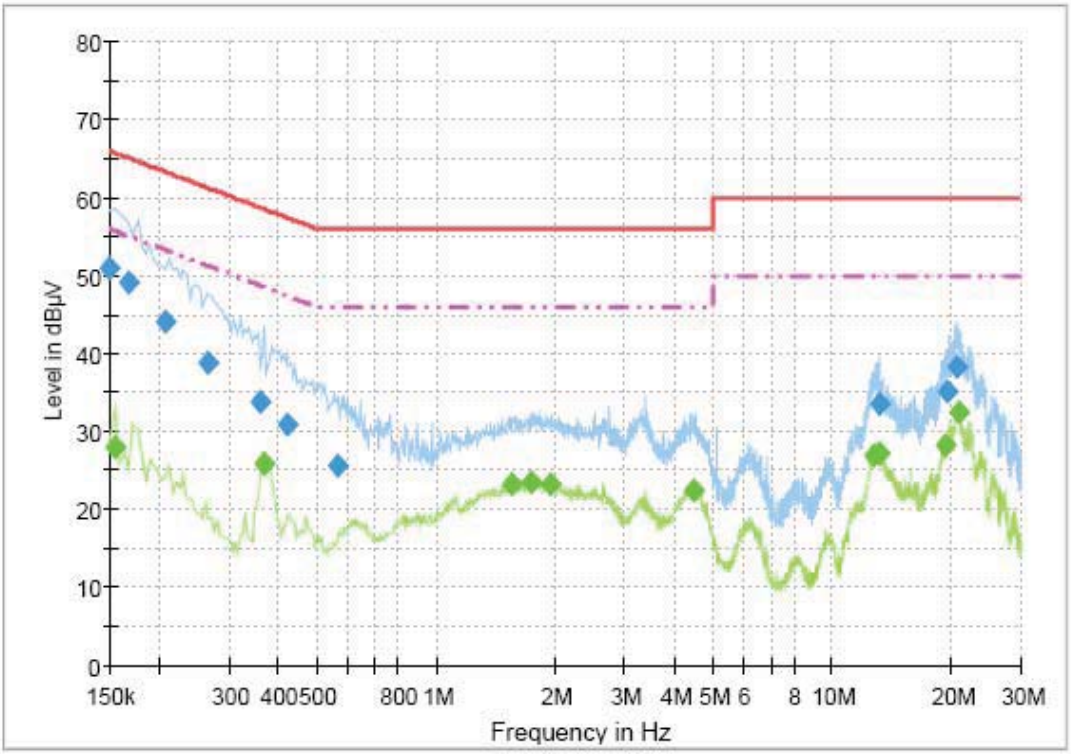
Final Result 1

Frequency (MHz)	QuasiPeak (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.154500	50.4	1000.0	9.000	On	L1	10.0	15.4	65.8
0.177000	47.5	1000.0	9.000	On	L1	10.2	17.1	64.6
0.213000	43.3	1000.0	9.000	On	L1	10.0	19.8	63.1
0.289500	36.6	1000.0	9.000	On	L1	10.1	23.9	60.5
0.334500	33.7	1000.0	9.000	On	L1	10.1	25.6	59.3
0.415500	29.5	1000.0	9.000	On	L1	10.2	28.0	57.5
12.804000	32.1	1000.0	9.000	On	L1	9.8	27.9	60.0
12.957000	32.6	1000.0	9.000	On	L1	9.8	27.4	60.0
19.342500	34.8	1000.0	9.000	On	L1	9.9	25.2	60.0
21.250500	36.8	1000.0	9.000	On	L1	9.9	23.2	60.0

Final Result 2

Frequency (MHz)	Average (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
1.549500	22.6	1000.0	9.000	On	L1	9.9	23.4	46.0
1.828500	23.2	1000.0	9.000	On	L1	9.9	22.8	46.0
1.887000	23.1	1000.0	9.000	On	L1	9.9	22.9	46.0
2.494500	21.7	1000.0	9.000	On	L1	9.9	24.3	46.0
4.429500	22.3	1000.0	9.000	On	L1	9.8	23.7	46.0
4.636500	20.8	1000.0	9.000	On	L1	9.8	25.2	46.0
12.808500	26.7	1000.0	9.000	On	L1	9.8	23.3	50.0
12.885000	26.6	1000.0	9.000	On	L1	9.8	23.4	50.0
19.545000	26.7	1000.0	9.000	On	L1	9.9	23.3	50.0
21.264000	29.5	1000.0	9.000	On	L1	9.9	20.5	50.0

[USB mode : NEUTRAL]



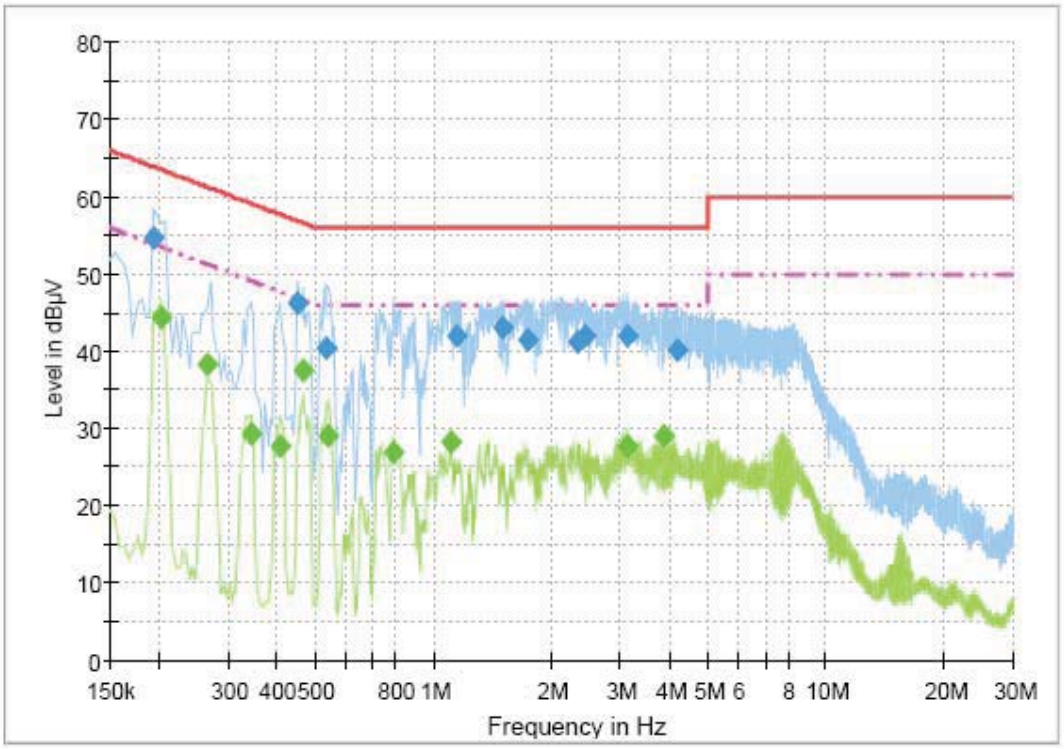
Final Result 1

Frequency (MHz)	QuasiPeak (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.150000	50.9	1000.0	9.000	On	N	9.7	15.1	66.0
0.168000	49.2	1000.0	9.000	On	N	10.2	15.9	65.1
0.208500	44.1	1000.0	9.000	On	N	9.9	19.2	63.3
0.267000	38.7	1000.0	9.000	On	N	10.0	22.5	61.2
0.361500	33.7	1000.0	9.000	On	N	10.1	25.0	58.7
0.420000	30.8	1000.0	9.000	On	N	10.2	26.6	57.4
0.568500	25.5	1000.0	9.000	On	N	10.2	30.5	56.0
13.141500	33.7	1000.0	9.000	On	N	9.9	26.3	60.0
19.491000	35.0	1000.0	9.000	On	N	10.0	25.0	60.0
20.670000	38.4	1000.0	9.000	On	N	10.0	21.6	60.0

Final Result 2

Frequency (MHz)	Average (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.154500	27.9	1000.0	9.000	On	N	9.9	27.9	55.8
0.370500	25.9	1000.0	9.000	On	N	10.1	22.6	48.5
1.563000	23.2	1000.0	9.000	On	N	9.9	22.8	46.0
1.752000	23.5	1000.0	9.000	On	N	9.9	22.5	46.0
1.959000	23.2	1000.0	9.000	On	N	9.9	22.8	46.0
4.470000	22.5	1000.0	9.000	On	N	9.8	23.5	46.0
12.732000	26.8	1000.0	9.000	On	N	9.9	23.2	50.0
13.173000	27.2	1000.0	9.000	On	N	9.9	22.8	50.0
19.329000	28.3	1000.0	9.000	On	N	10.0	21.7	50.0
20.863500	32.4	1000.0	9.000	On	N	10.0	17.6	50.0

[Battery Charger mode : HOT]



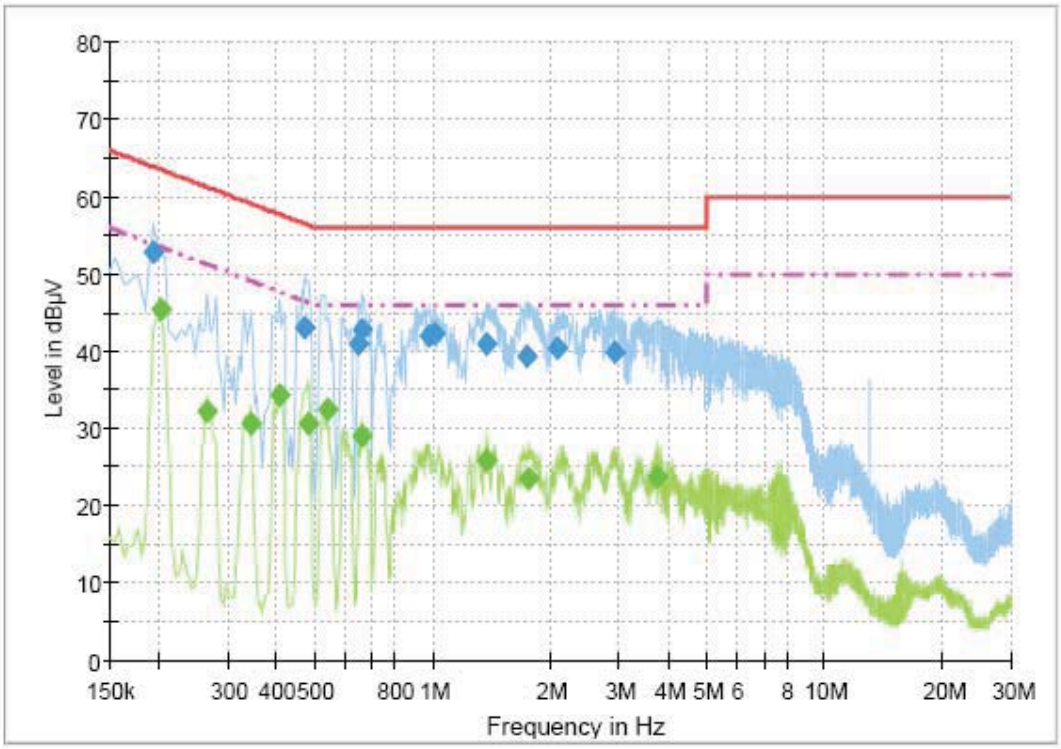
Final Result 1

Frequency (MHz)	QuasiPeak (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.195000	54.7	1000.0	9.000	On	L1	10.0	9.1	63.8
0.451500	46.1	1000.0	9.000	On	L1	10.2	10.7	56.8
0.537000	40.4	1000.0	9.000	On	L1	10.2	15.6	56.0
1.144500	41.9	1000.0	9.000	On	L1	10.0	14.1	56.0
1.513500	43.1	1000.0	9.000	On	L1	9.9	12.9	56.0
1.743000	41.4	1000.0	9.000	On	L1	9.9	14.6	56.0
2.346000	41.1	1000.0	9.000	On	L1	9.9	14.9	56.0
2.454000	42.0	1000.0	9.000	On	L1	9.9	14.0	56.0
3.124500	42.1	1000.0	9.000	On	L1	9.9	13.9	56.0
4.204500	40.1	1000.0	9.000	On	L1	9.8	15.9	56.0

Final Result 2

Frequency (MHz)	Average (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.204000	44.3	1000.0	9.000	On	L1	10.0	9.1	53.4
0.267000	38.2	1000.0	9.000	On	L1	10.1	13.0	51.2
0.343500	29.4	1000.0	9.000	On	L1	10.1	19.7	49.1
0.406500	27.9	1000.0	9.000	On	L1	10.2	19.9	47.7
0.465000	37.5	1000.0	9.000	On	L1	10.2	9.1	46.6
0.541500	28.9	1000.0	9.000	On	L1	10.2	17.1	46.0
0.789000	26.9	1000.0	9.000	On	L1	10.1	19.1	46.0
1.108500	28.2	1000.0	9.000	On	L1	10.0	17.8	46.0
3.124500	27.7	1000.0	9.000	On	L1	9.9	18.3	46.0
3.885000	29.0	1000.0	9.000	On	L1	9.8	17.0	46.0

[Battery Charger mode : NEUTRAL]



Final Result 1

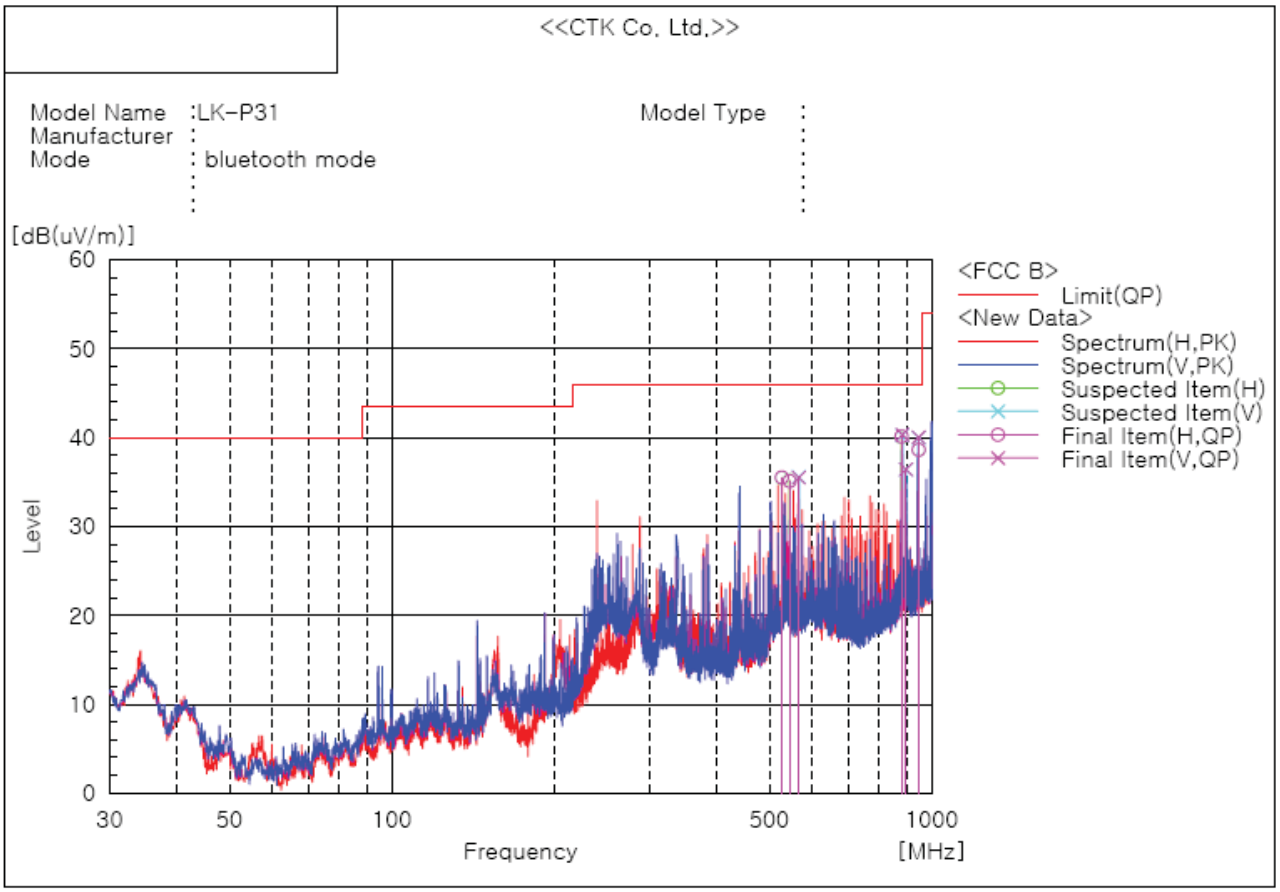
Frequency (MHz)	QuasiPeak (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.195000	52.8	1000.0	9.000	On	N	10.0	11.0	63.8
0.474000	43.0	1000.0	9.000	On	N	10.2	13.4	56.4
0.649500	41.0	1000.0	9.000	On	N	10.1	15.0	56.0
0.663000	42.7	1000.0	9.000	On	N	10.1	13.3	56.0
0.982500	42.1	1000.0	9.000	On	N	10.0	13.9	56.0
1.014000	42.2	1000.0	9.000	On	N	10.0	13.8	56.0
1.374000	41.0	1000.0	9.000	On	N	9.9	15.0	56.0
1.752000	39.2	1000.0	9.000	On	N	9.9	16.8	56.0
2.080500	40.3	1000.0	9.000	On	N	9.9	15.7	56.0
2.913000	40.0	1000.0	9.000	On	N	9.9	16.0	56.0

Final Result 2

Frequency (MHz)	Average (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.204000	45.4	1000.0	9.000	On	N	9.9	8.0	53.4
0.267000	32.2	1000.0	9.000	On	N	10.0	19.0	51.2
0.343500	30.5	1000.0	9.000	On	N	10.1	18.6	49.1
0.406500	34.4	1000.0	9.000	On	N	10.2	13.3	47.7
0.483000	30.7	1000.0	9.000	On	N	10.2	15.6	46.3
0.541500	32.5	1000.0	9.000	On	N	10.2	13.5	46.0
0.663000	28.9	1000.0	9.000	On	N	10.1	17.1	46.0
1.374000	25.8	1000.0	9.000	On	N	9.9	20.2	46.0
1.770000	23.5	1000.0	9.000	On	N	9.9	22.5	46.0
3.754500	23.7	1000.0	9.000	On	N	9.8	22.3	46.0

Radiated Electric Field Emissions

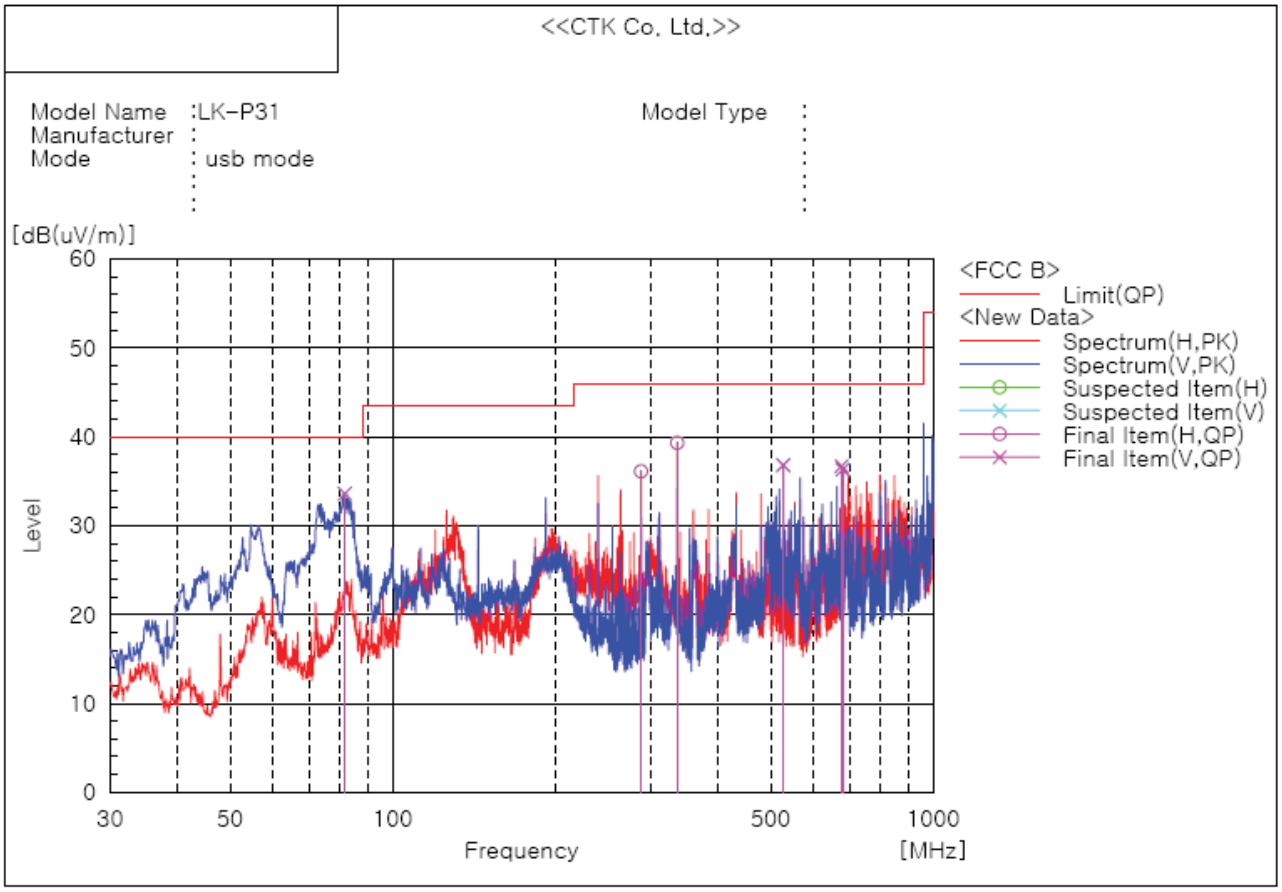
[Bluetooth mode]



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]	Remark
1	527.974	H	44.1	-8.6	35.5	46.0	10.5	205.0	104.0	
2	545.555	H	43.3	-8.2	35.1	46.0	10.9	205.0	104.0	
3	567.259	V	43.5	-8.0	35.5	46.0	10.5	100.0	67.0	
4	879.356	H	41.8	-1.7	40.1	46.0	5.9	100.0	92.0	
5	882.630	V	41.9	-1.6	40.3	46.0	5.7	100.0	290.0	
6	896.331	V	37.6	-1.2	36.4	46.0	9.6	100.0	253.0	
7	945.801	V	40.4	-0.4	40.0	46.0	6.0	100.0	290.0	
8	946.044	H	39.0	-0.4	38.6	46.0	7.4	205.0	67.0	

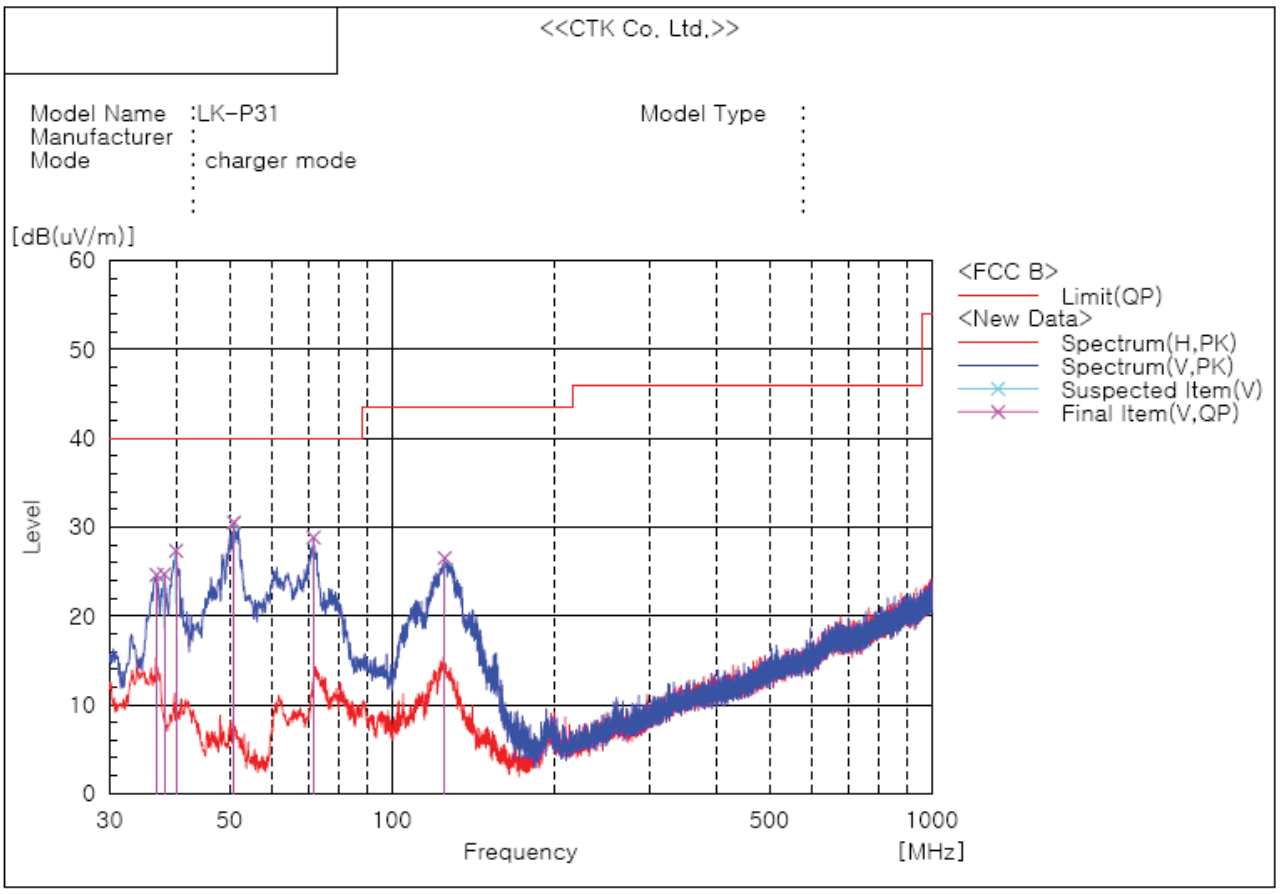
[USB mode]



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]	Remark
1	81.531	V	54.0	-20.4	33.6	40.0	6.4	100.0	331.0	
2	336.035	H	52.4	-13.1	39.3	46.0	6.7	100.0	154.0	
3	527.974	V	45.4	-8.6	36.8	46.0	9.2	100.0	182.0	
4	676.990	V	42.2	-5.5	36.7	46.0	9.3	100.0	144.0	
5	679.658	V	41.7	-5.4	36.3	46.0	9.7	100.0	144.0	
6	288.020	H	51.8	-15.7	36.1	46.0	9.9	100.0	78.0	

[Battery Charger mode]



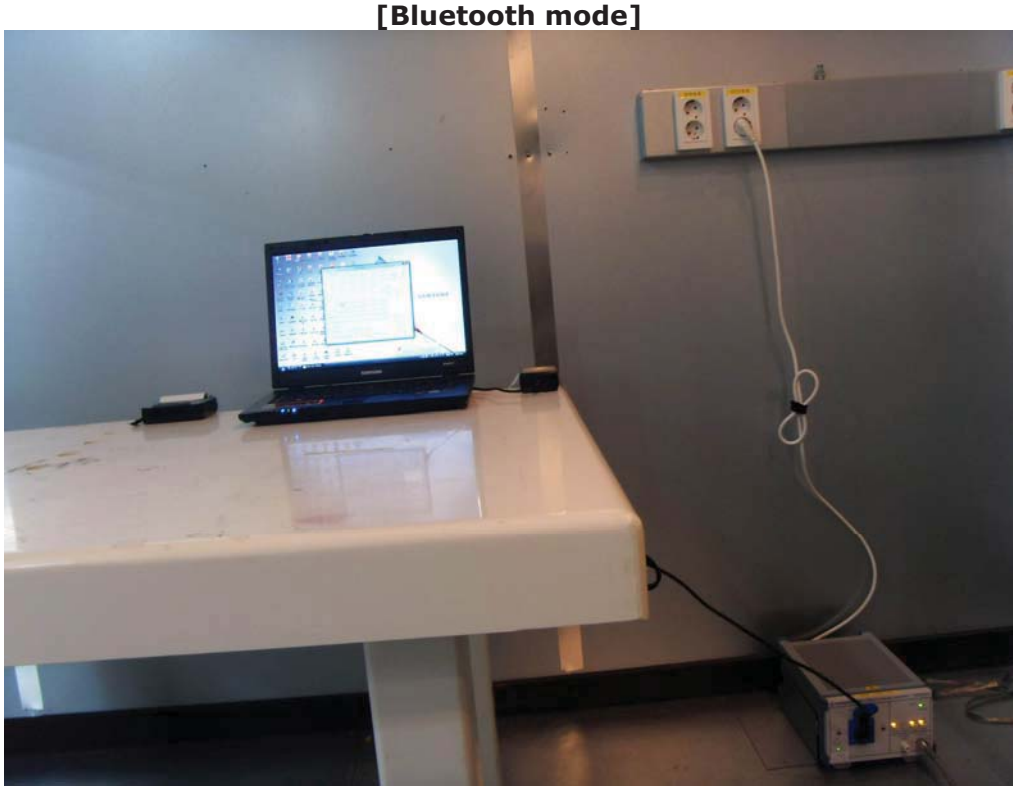
Final Result

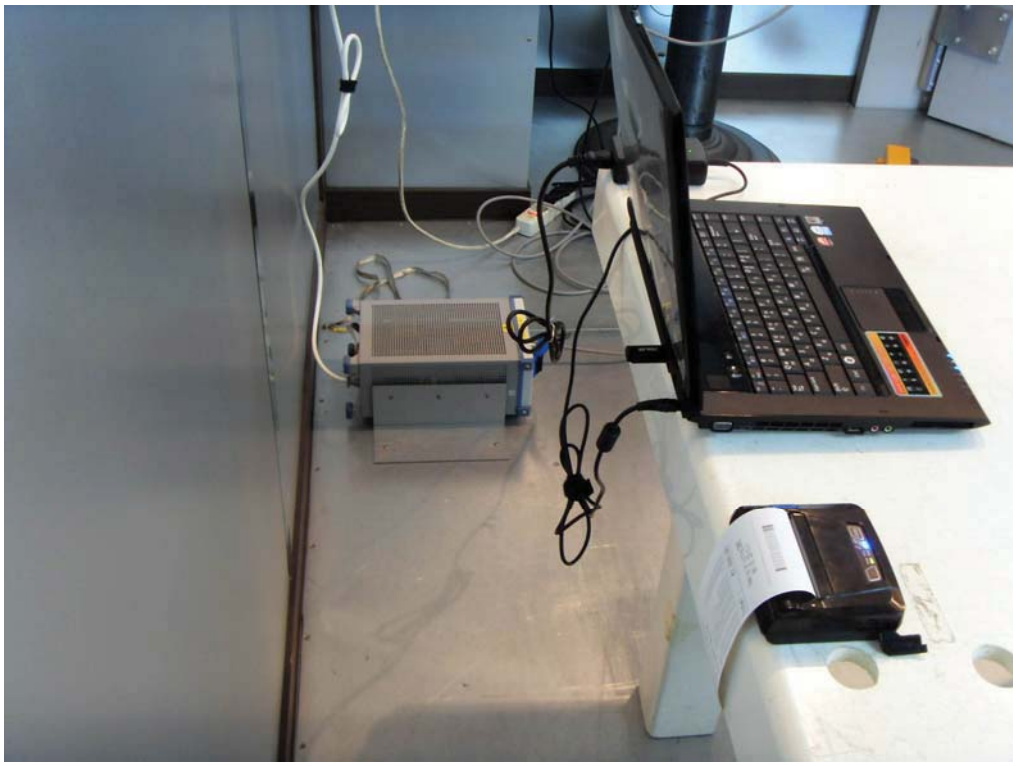
No.	Frequency [MHz]	(P)	Reading QP [dB(uV)]	c.f [dB(1/m)]	Result QP [dB(uV/m)]	Limit QP [dB(uV/m)]	Margin QP [dB]	Height [cm]	Angle [deg]	Remark
1	36.669	V	37.3	-12.7	24.6	40.0	15.4	204.0	70.0	
2	37.881	V	37.9	-13.2	24.7	40.0	15.3	100.0	41.0	
3	39.821	V	41.5	-14.2	27.3	40.0	12.7	100.0	191.0	
4	50.976	V	52.1	-21.6	30.5	40.0	9.5	100.0	265.0	
5	71.589	V	50.1	-21.3	28.8	40.0	11.2	100.0	265.0	
6	125.303	V	44.5	-18.0	26.5	43.5	17.0	100.0	153.0	

APPENDIX B - Test Setup Photos and Configuration

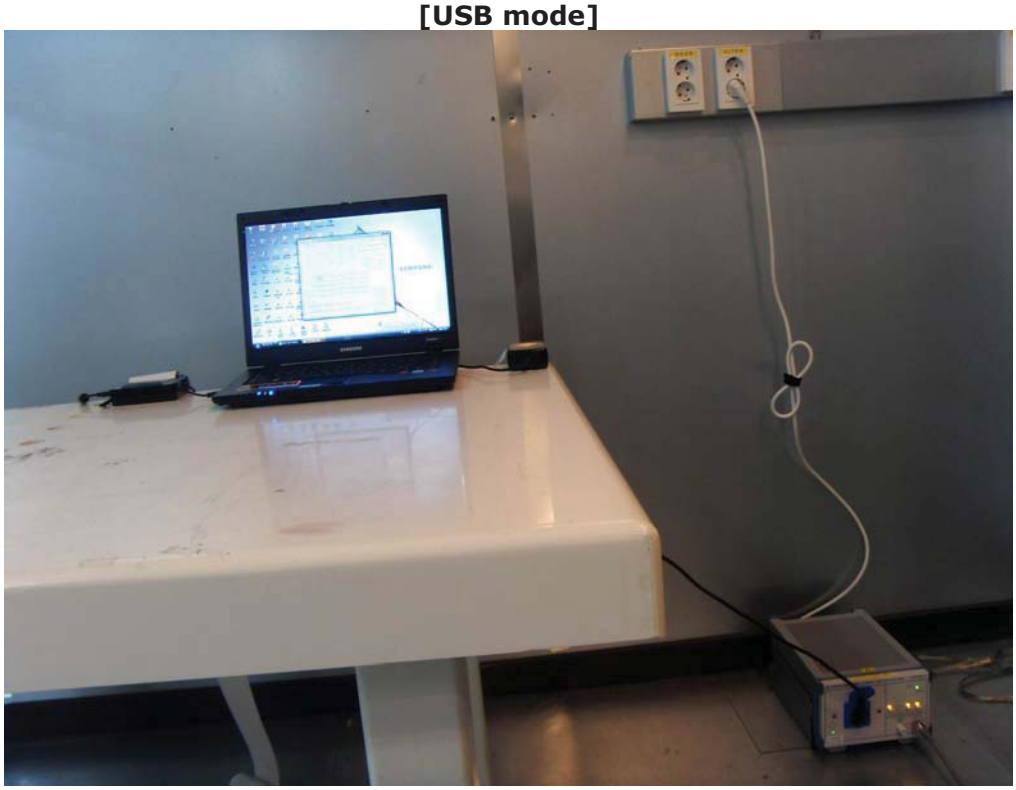
Conducted Voltage Emissions

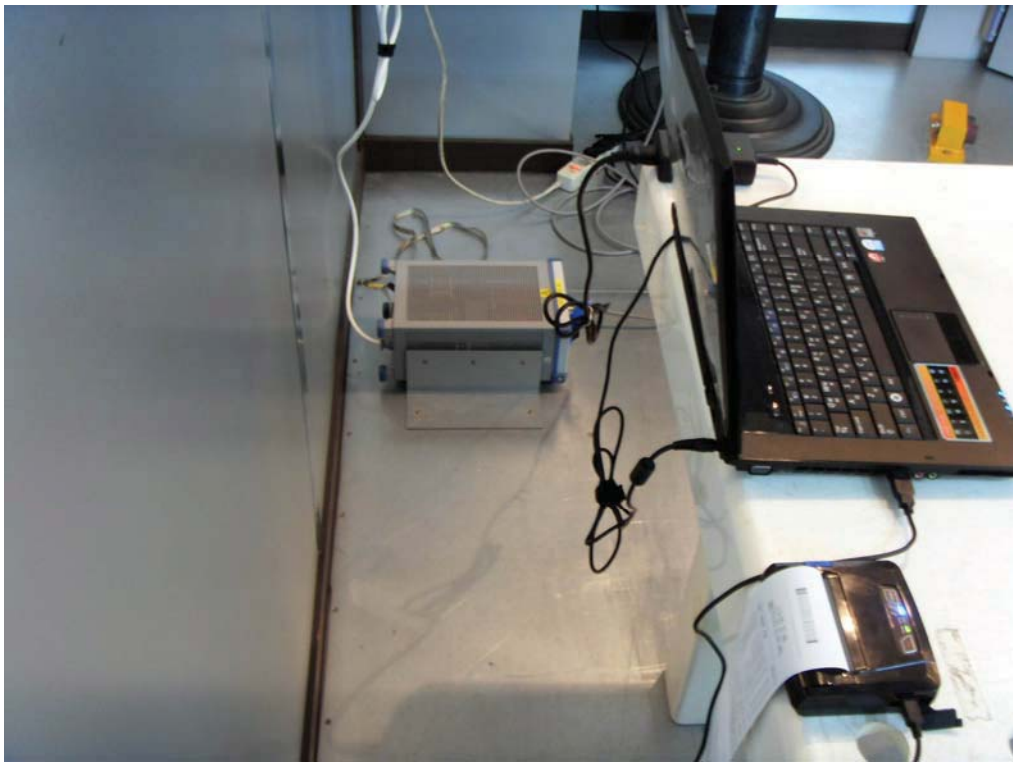
[Bluetooth mode]



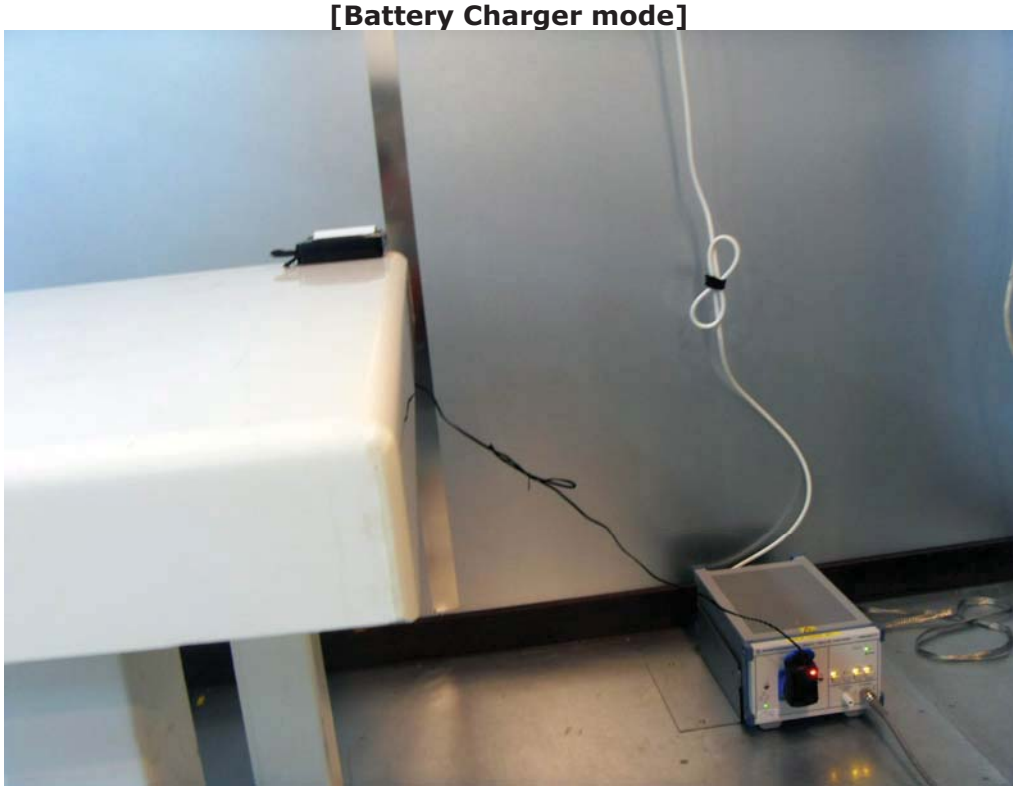


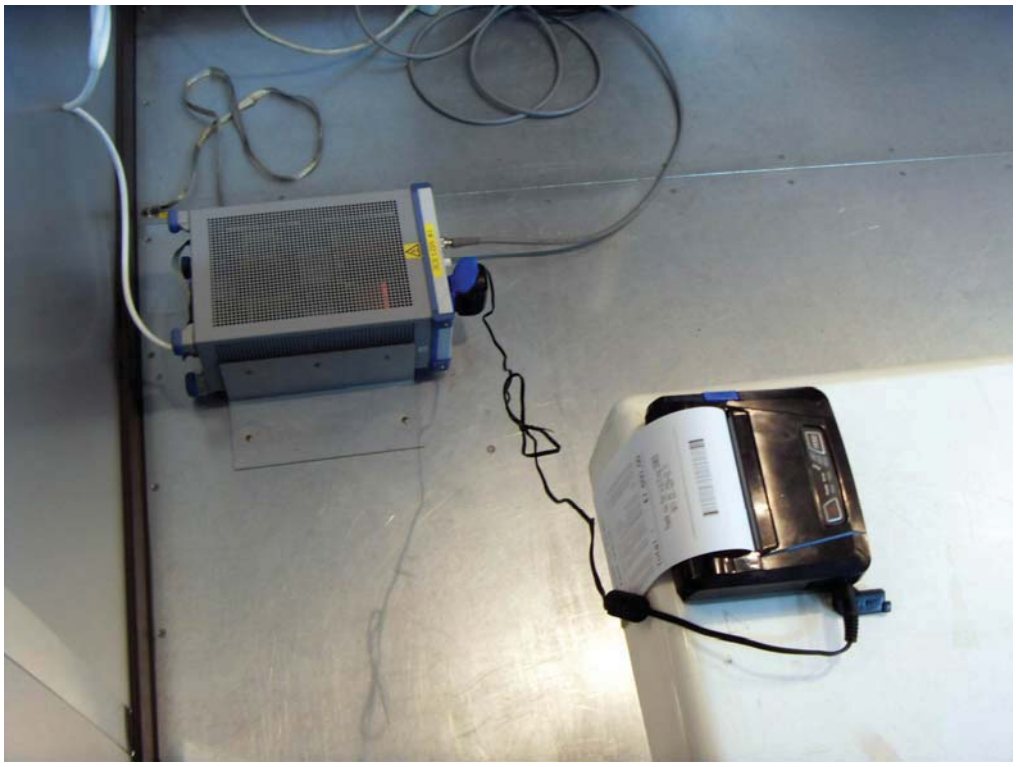
[USB mode]





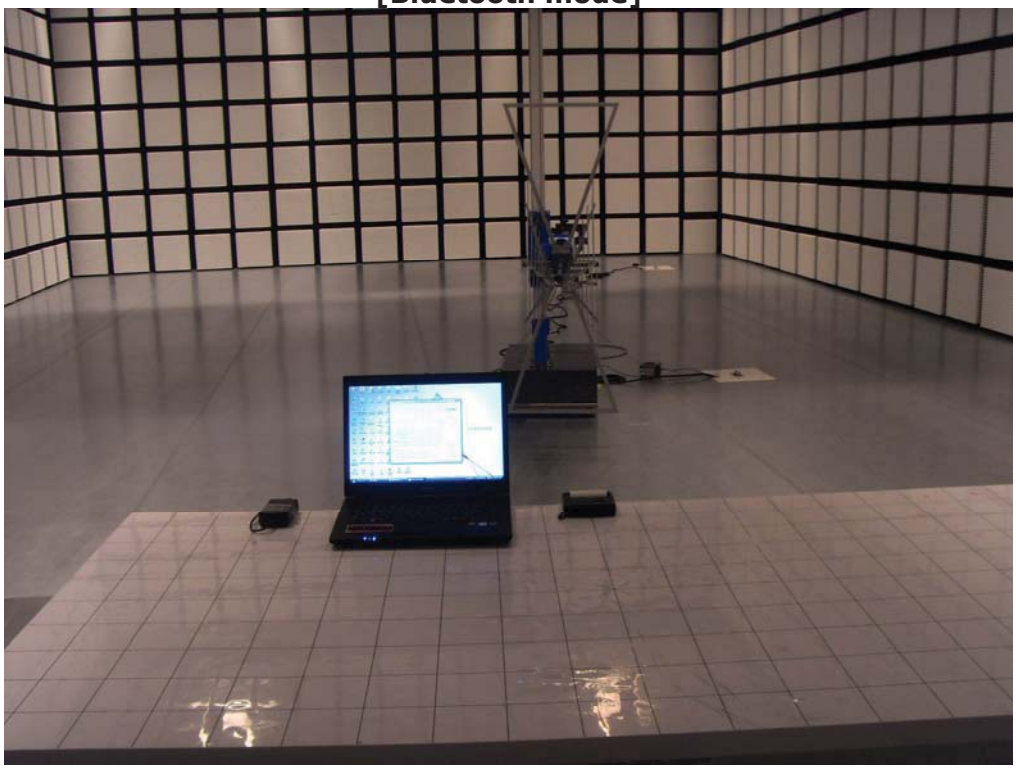
[Battery Charger mode]

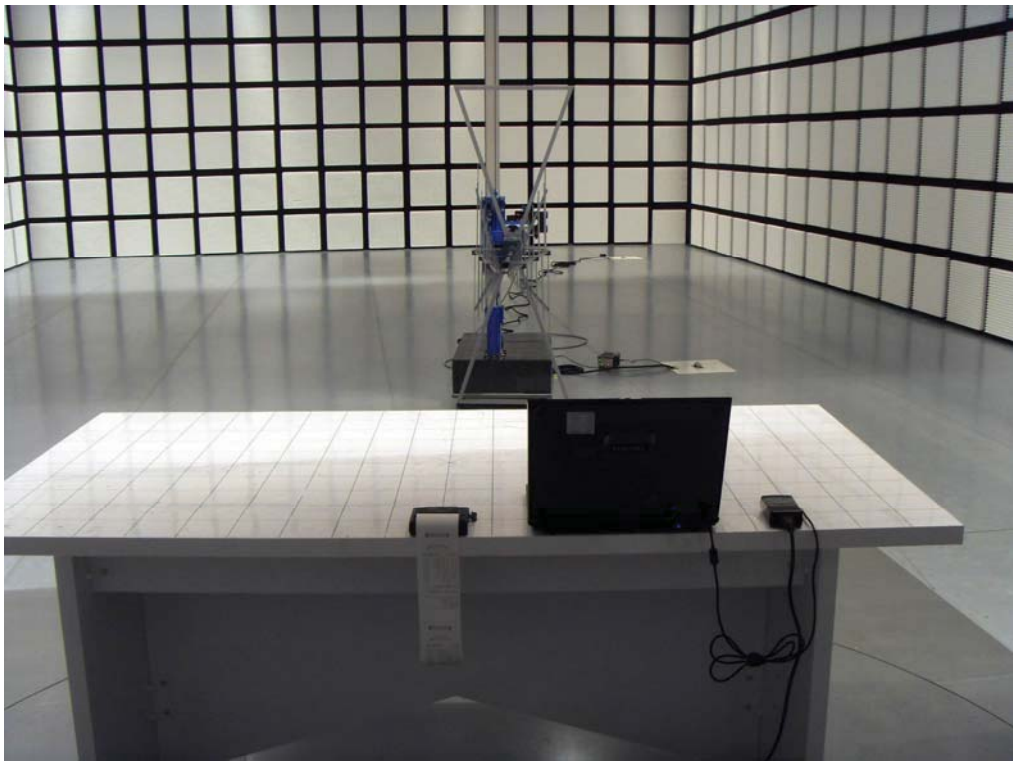




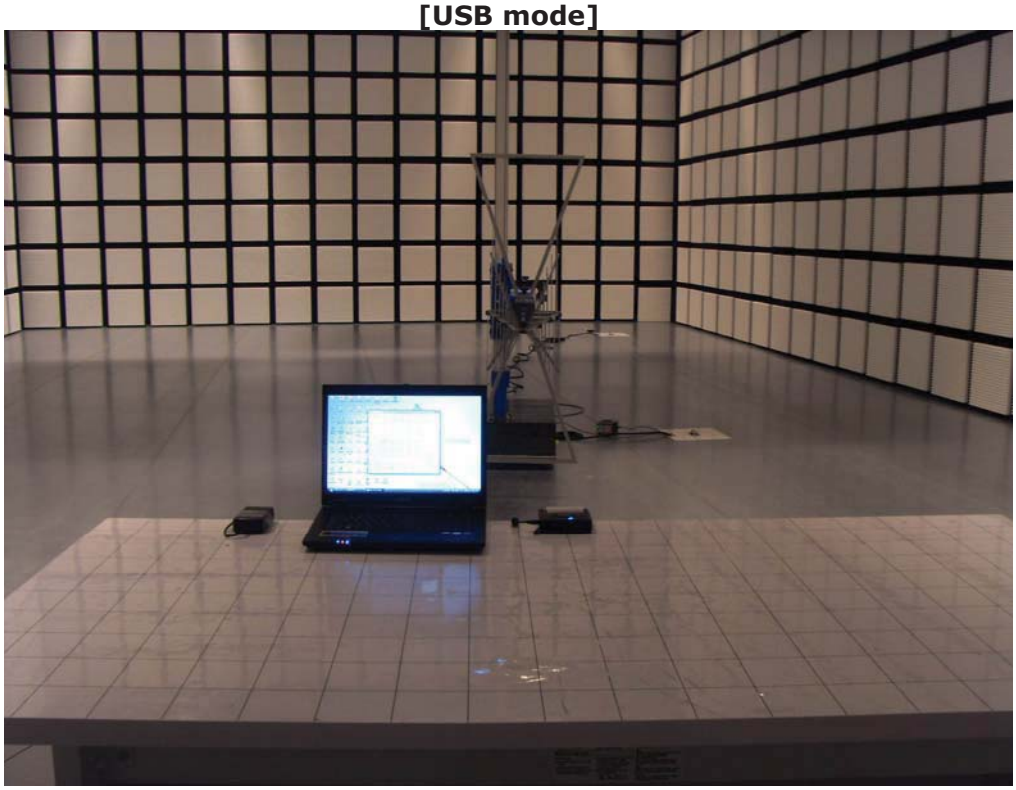
Radiated Electric Field Emissions

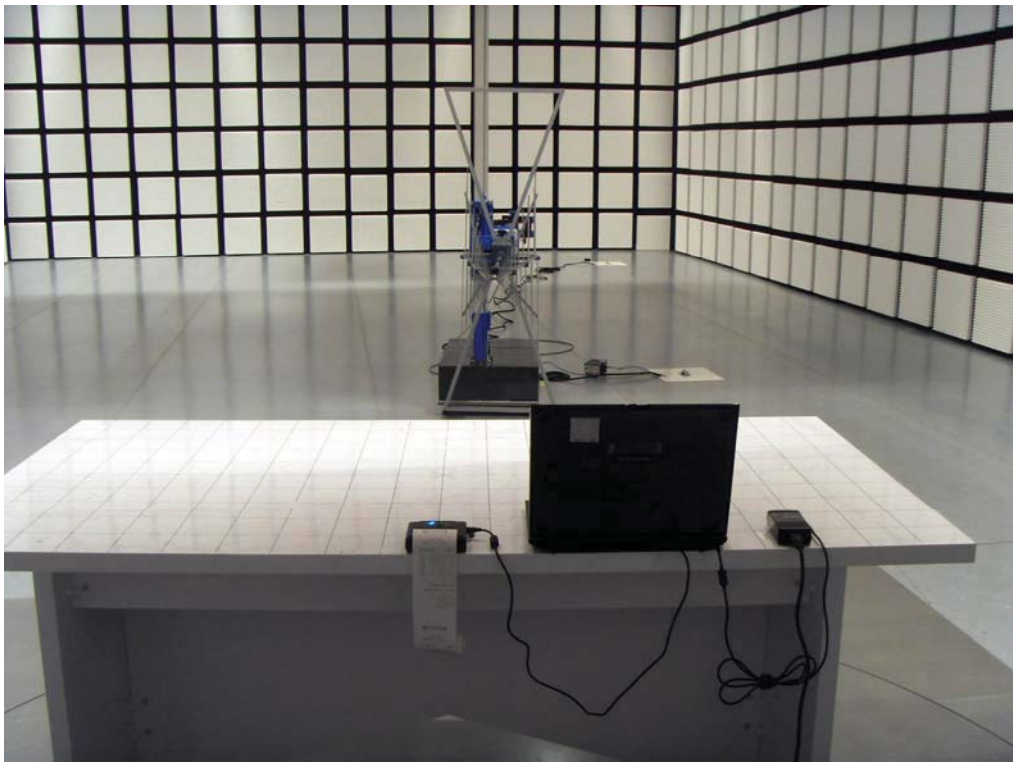
[Bluetooth mode]



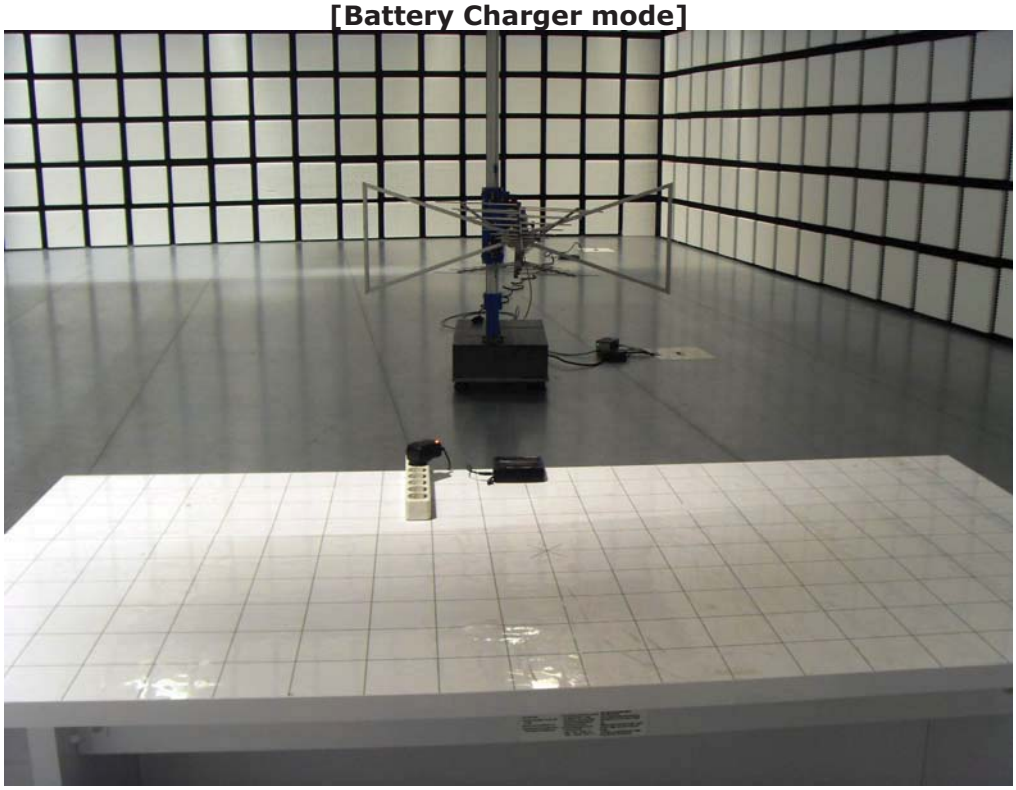


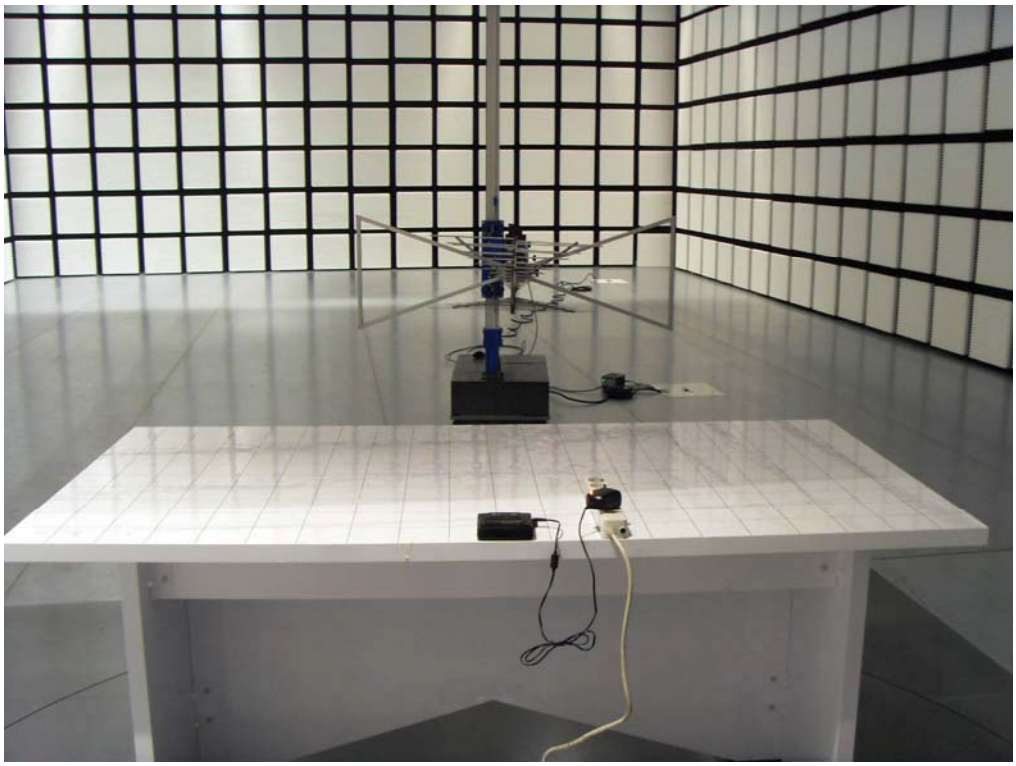
[USB mode]





[Battery Charger mode]

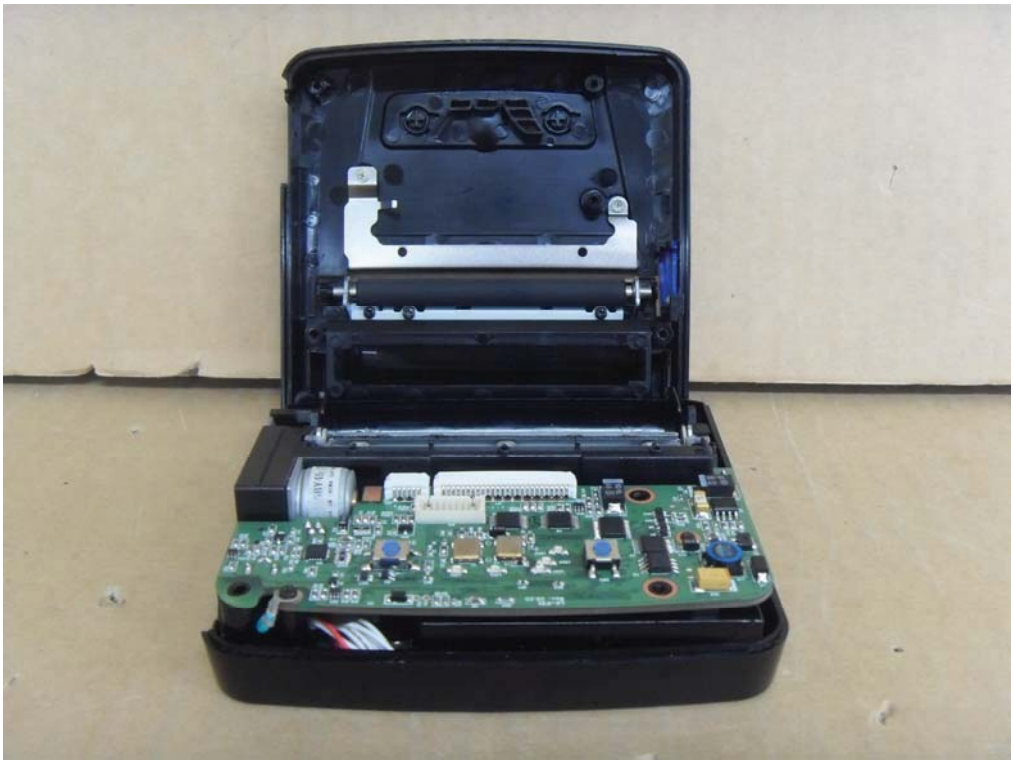




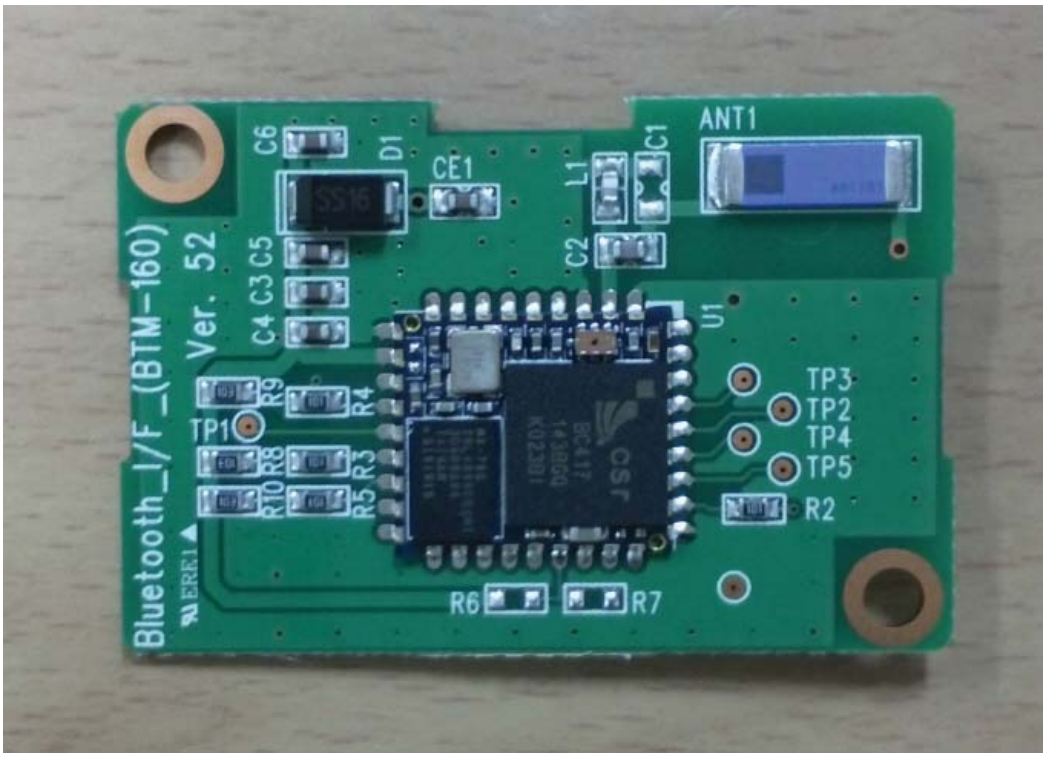
APPENDIX C – EUT Photographs

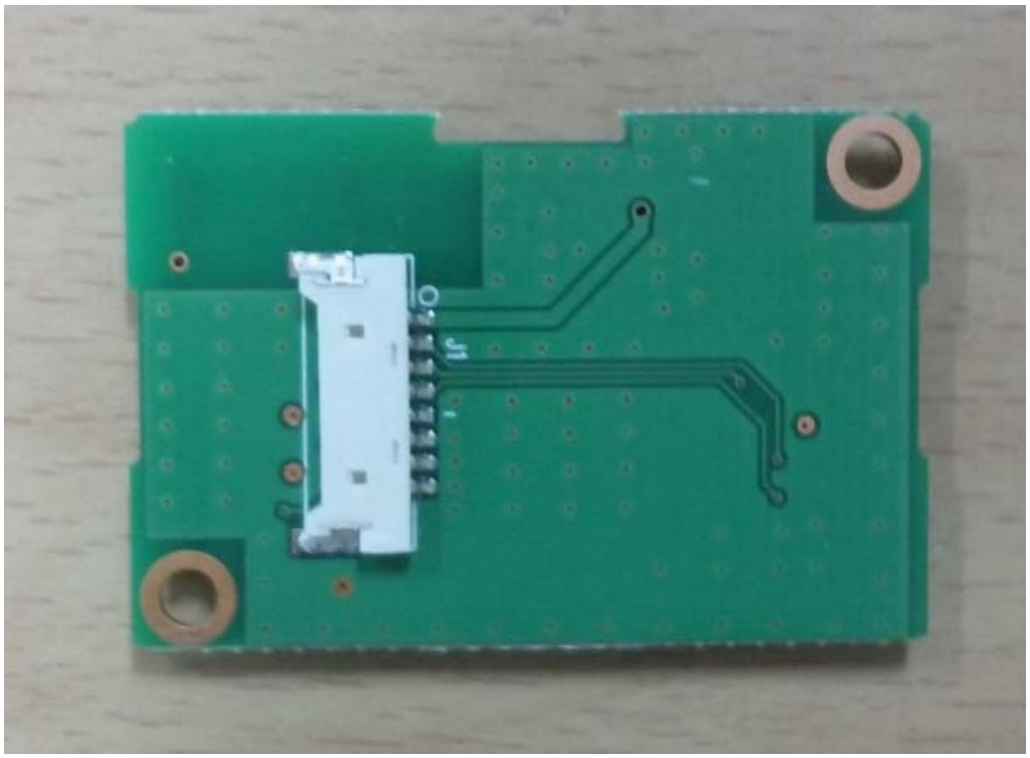
EUT External Photographs

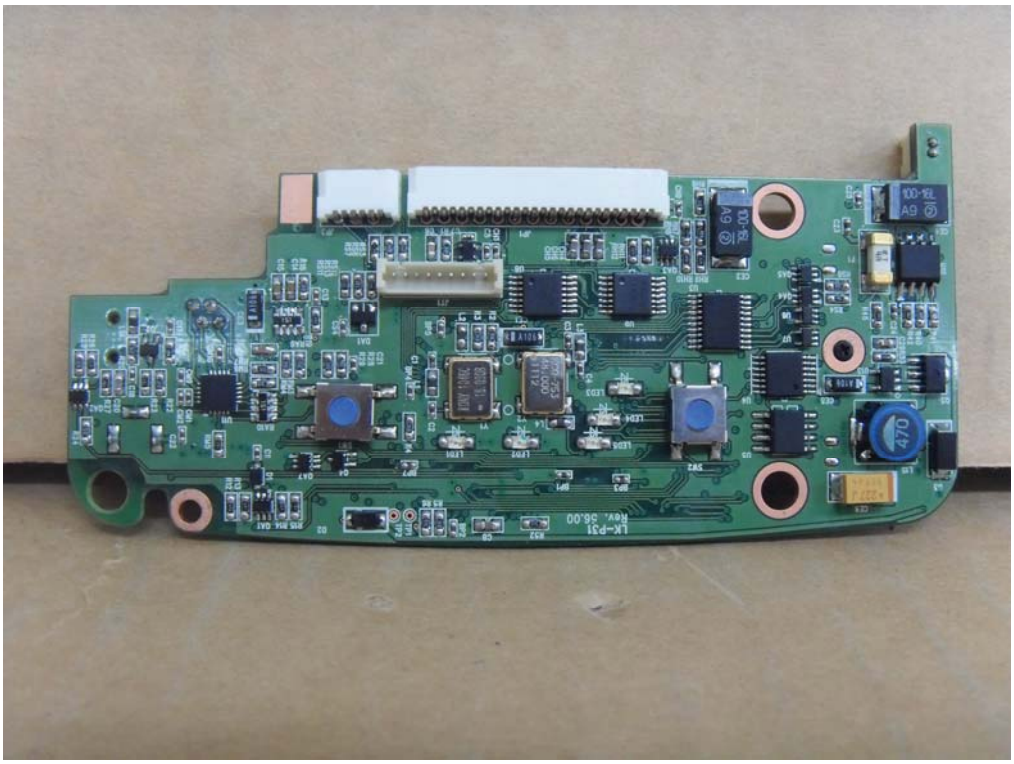
EUT Internal Photographs

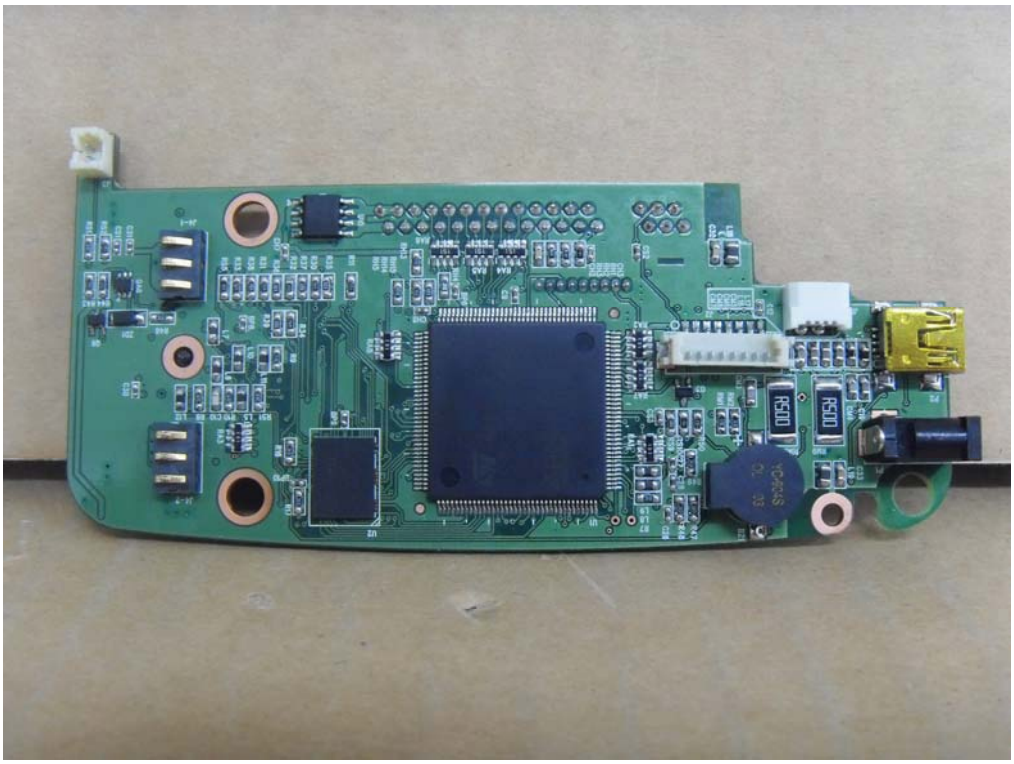


PCB









Battery Charger

Label and Location