

EMC TEST REPORT

Report No.: SET2015-06867

Product: Printer

Model No. : LJ2208W、LJ2208

FCC ID: A5M-SFPLJ2208W1

Applicant Lenovo (Beijing) Limited

Issued by: CCIC Southern Electronic Product Testing (Shenzhen) Co., Ltd.

Lab Location: Building 28/29, Shigudong, Xili Industrial Area, Xili Street,
Nanshan District, Shenzhen, Guangdong, China

Tel: 86 755 26627338 **Fax:** 86 755 26627238



This test report consists of **43** pages in total. It may be duplicated completely for legal use with the approval of the applicant. It should not be reproduced except in full, without the written approval of our laboratory. The client should not use it to claim product endorsement by CCIC-SET. The test results in the report only apply to the tested sample. The test report shall be invalid without all the signatures of testing engineers, reviewer and approver. Any objections must be raised to CCIC-SET within 15 days since the date when the report is received. It will not be taken into consideration beyond this limit.

Query No. :64707J8F

Test Report

Product Printer

Model No. LJ2208W、LJ2208

Applicant Lenovo (Beijing) Limited

Applicant Address No.6,Chuang Ye Road, Shangdi Information Industry Base,
Haidian District, Beijing, China 100085

Manufacturer Lenovo (Beijing) Limited

Manufacturer Address No.6,Chuang Ye Road, Shangdi Information Industry Base,
Haidian District, Beijing, China 100085

Test Standards..... FCC PART 15 Subpart B
ANSI C63.4: 2009

Test Result PASS

Tested by

Xu Weiwei

May. 25. 2015

Signature, Date

Reviewed by

Zhu Qi

May. 25. 2015

Signature, Date

Approved by.....

Wu Lian

May. 25. 2015

Signature, Date



Table of Contents

1 General Information	4
1.1 Description of EUT	4
1.2 EUT Information	4
1.3 Highest Frequency Generated or Used in The Device or on Which the Device Operates	4
2 Test Facilities and Configuration	5
2.1 Environmental Conditions	5
2.2 Measurement Uncertainty	5
2.3 Associated Equipments	5
2.4 Cables Used	5
2.5 Test Configure	6
2.6 Measurement Equipments Used	7
3 Summary of Test Results	8
4 Emission Test	9
4.1 EUT Setup and Operation	9
4.2 Mains Terminal Disturbance Voltage Measurement	10
4.2.1 Limits of Mains Terminal Disturbance Voltage	10
4.2.2 Test Procedure	10
4.2.3 Test Setup	10
4.2.4 Test Result	11
4.3 Radiated Emission Test	18
4.3.1 Limits of Radiated Emission	18
4.3.2 Test Procedure	18
4.3.3 Test Setup	19
4.3.4 Test Results	19
Appendix I: Photographs of the EUT	32
Appendix II: Photographs of EMC Test Configuration	42

1 General Information

1.1 Description of EUT

Product: Printer
Model No.: LJ2208W、LJ2208
Brand Name: Lenovo
Serial No.: PT201502043
I/O Ports: USB
Accessories: Power cable ,USB cable

Note:

The EUT is class B information technology equipment according to FCC PART 15. For more detailed features description about the EUT, please refer to User's Manual.

Perform ElectroMagnetic Interference measurement in accordance with FCC 47CFR [Codes of Federal Regulations] Part 15 and ANSI C63.4: 2009 for FCC ID.

The EUT have Wifi module, which have finished the FCCID(FCCID code : PPQ-WN4615L).

Short description of the equipment under test (EUT)

The certification machine is a printer which has print function.

Model difference:

The EUT is a Printer.

Model/Type: LJ2208W, LJ2208

Models difference:

Model Name	Print	USB	WiFi
LJ2208	○	○	×
LJ2208W	○	○	○

Unless otherwise indicated, all tests were conducted on LJ2208W. Tests performed on LJ2208W were considered to be representative of LJ2208.

“×” mean it is not supported and “○” mean it is equipped.

1.2 EUT Information

Kind of equipment	Manufacturer	Model name	Serial number	Remark
Printer	Lenovo	LJ2208W	PT201502043	-

1.3 Highest Frequency Generated or Used in The Device or on Which the Device Operates

Kind of equipment	Model name	Operates Frequency	Remark
Printer	LJ2208W	480MHz	USB

2 Test Facilities and Configuration

2.1 Environmental Conditions

During the measurement the environmental conditions were within the listed ranges:

- Temperature: 15-35°C
- Humidity: 30-60 %
- Atmospheric pressure: 86-106 kPa

2.2 Measurement Uncertainty

The uncertainty is calculated using the methods suggested in the “Guide to the Expression of Uncertainty in Measurement” (GUM) published by ISO.

- Uncertainty of Conducted Emission, $U_c = \pm 1.8\text{dB}$
- Uncertainty of Radiated Emission, $U_c = \pm 5.0\text{dB}$

2.3 Associated Equipments

Kind of equipment	Manufacturer	Model name	Serial number	Remark
Notebook	LENOVO	ThinkPad L440	R9-0346Y3 14/07	DoC
Wireless Router	Buffalo	WCR-HP-GN	44061000300952	
Keyboard	DELL	L100	CNORH6566589079K0277	
Mouse	DELL	MOC5UO	H0F02OCQ	

2.4 Cables Used

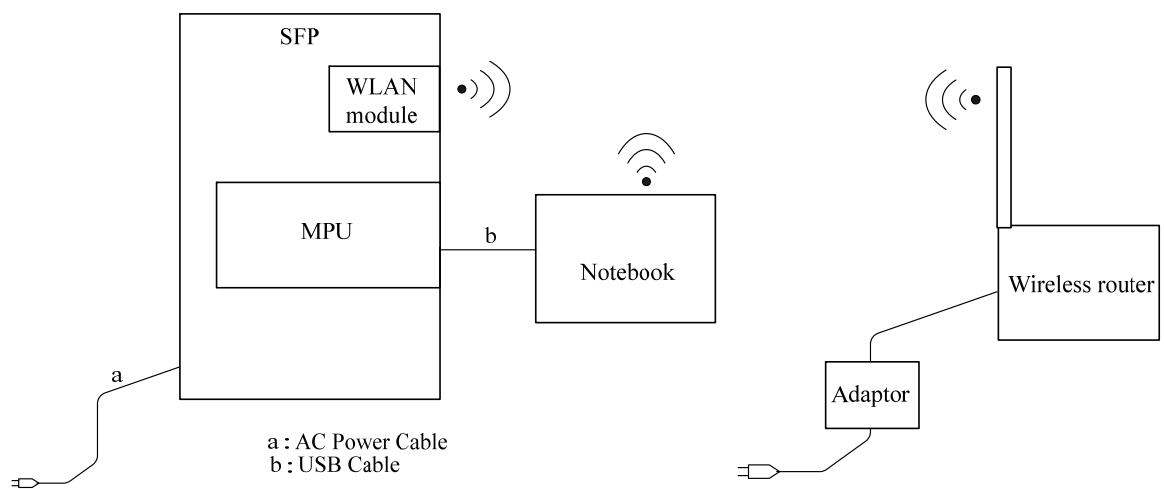
Item	Cable Name	Length	Shielding	Maker
1	USB Cable	1.2m	YES	Comlink
2	Power Cable	1.5m	No	Voilex

2.5 Test Configure

Operating modes:

No.	Operating modes	Remarks
1	Standby	
2	USB Print	
3	WiFi Print	

EUT Setup



2.6 Measurement Equipments Used

Description	Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Due Date
Test Receiver	ROHDE&SCHWARZ	ESCS30	A0304260	Jun.10, 2014	Jun.10, 2015
LISN	Schwarzbeck	ESH2-Z5	A0304221	Jun.10, 2014	Jun.10, 2015
Shield Room	Nanbo Tech	Site 3	A9901141	Jun.10, 2014	Jun.10, 2015
Horn Ant.	ROHDE&SCHWARZ	HF906	A0304225	Jun.10, 2014	Jun.10, 2015
Anechoic Chamber	Albatross	SAC-10MAC 19.6*11.8*8.55m	A0802520	Sep.17, 2014	Sep.17, 2015
Test Receiver	ROHDE&SCHWARZ	ESU8	A0805559	Jun.10, 2014	Jun.10, 2015
Ultra-Broadband Ant.	SCHWARZBECK	VULB 09160	A0805560	Jun.10, 2014	Jun.10, 2015

NOTE: Equipments above have been calibrated and are in the period of validation.

3 Summary of Test Results

The EUT has been tested according to the following specifications:

EMISSION			
Test Condition	Test Requirement	Test Method	Result
Radiated Emissions	FCC 47CFR Part15 SubpartB	ANSI C63.4:2009	PASS
Conducted Emissions on AC, 0.15MHz to 30MHz	FCC 47CFR Part15 SubpartB	ANSI C63.4:2009	PASS

4 Emission Test

4.1 EUT Setup and Operation

The EUT was powered by 120V AC Mains

The EUT continuously operated during the test modes as section 2.5.

The EUT and cables, and operation modes were configured to produce the maximum level of emissions.

4.2 Mains Terminal Disturbance Voltage Measurement

4.2.1 Limits of Mains Terminal Disturbance Voltage

Frequency range (MHz)	Limits (dB μ V), Class B ITE	
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5.0	56	46
5.0-30.0	60	50

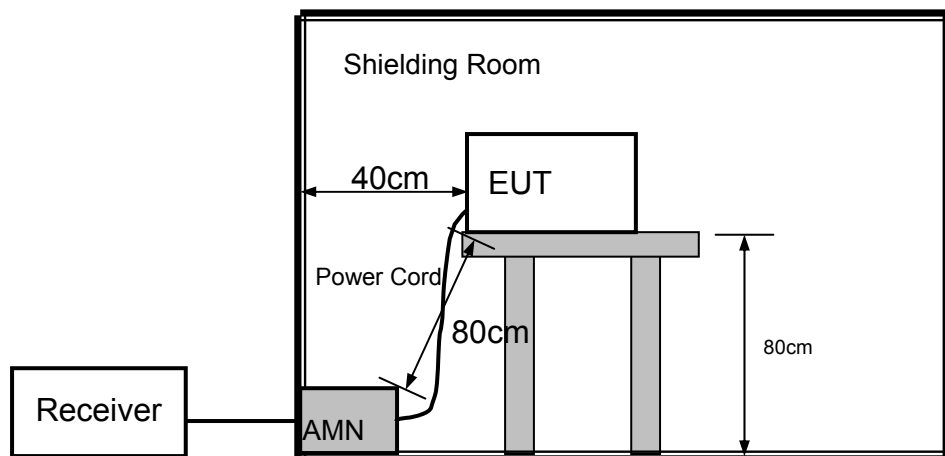
NOTE:

1. The lower limit shall apply at the transition frequencies.
2. The limit decreases linearly with the logarithm of the frequency in the range 0.15MHz to 0.50MHz.

4.2.2 Test Procedure

- a. The EUT was placed 0.4 meters from the conducting wall of shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). The LISN provide 50 Ω /50 μ H of coupling impedance for the measuring instrument.
- b. Both lines of the power mains connected to the EUT were checked for maximum conducted interference.
- c. The frequency range from 150 kHz to 30 MHz was searched. Emission levels over 10dB under the prescribed limits are not reported.

4.2.3 Test Setup



For the actual test configuration, please refer to the related item - Photographs of the Test Configuration.

4.2.4 Test Result

Environment Condition:

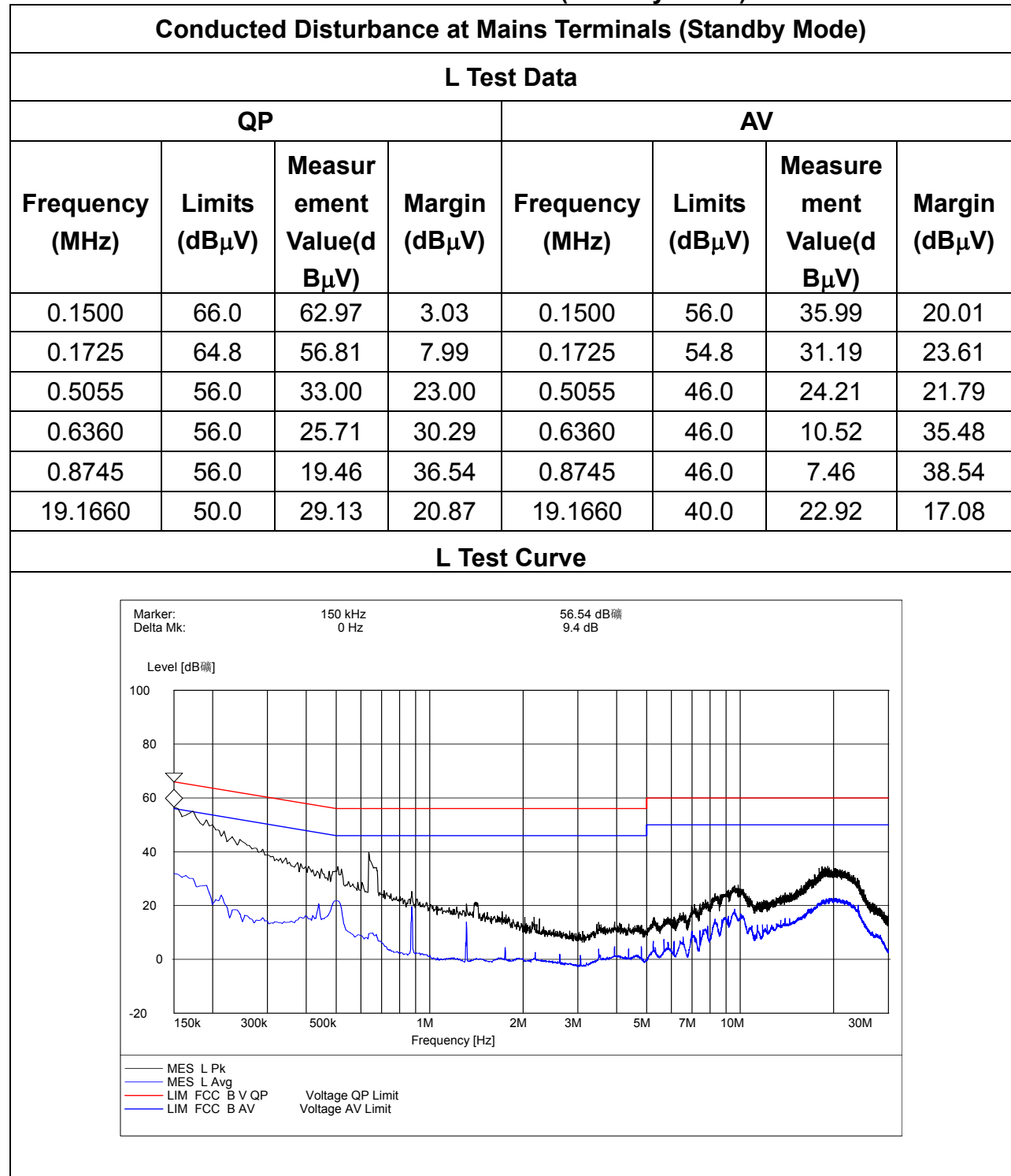
Temperature: 23°C; Relative Humidity: 52%; Pressure:101kPa

Test Date: 2015-3-13

Test Engineer: Cheng Weichang

Test Site: Shield Room Site 1

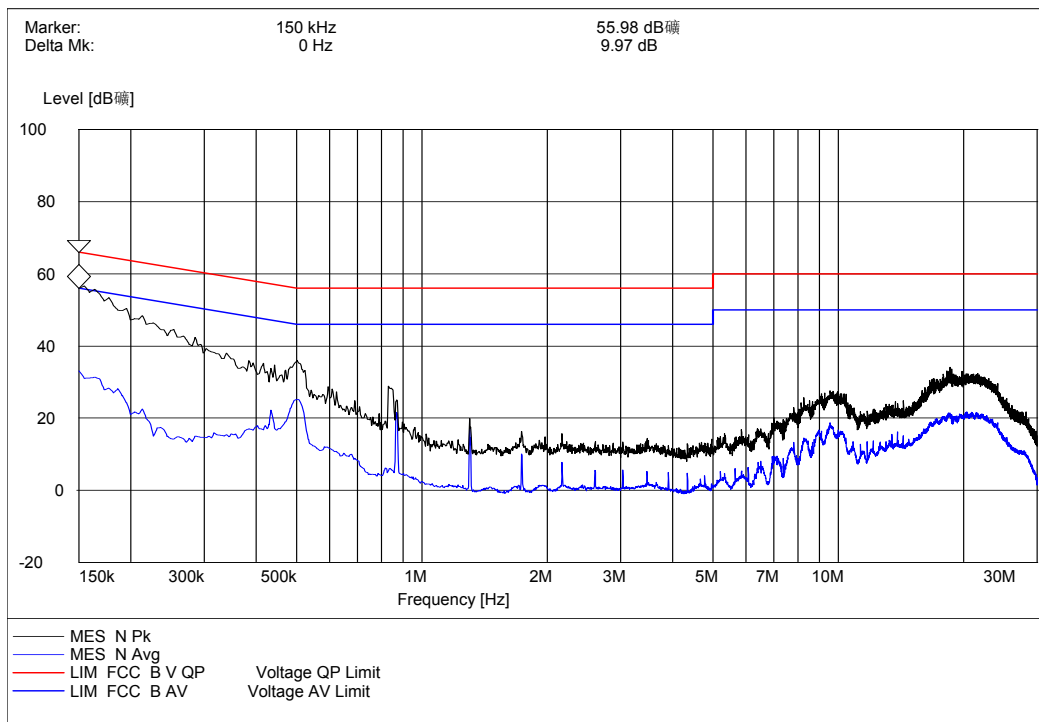
Test Mode: Mode 1-3

1. Conducted Disturbance at Mains Terminals (Standby Mode)**NOTE:**

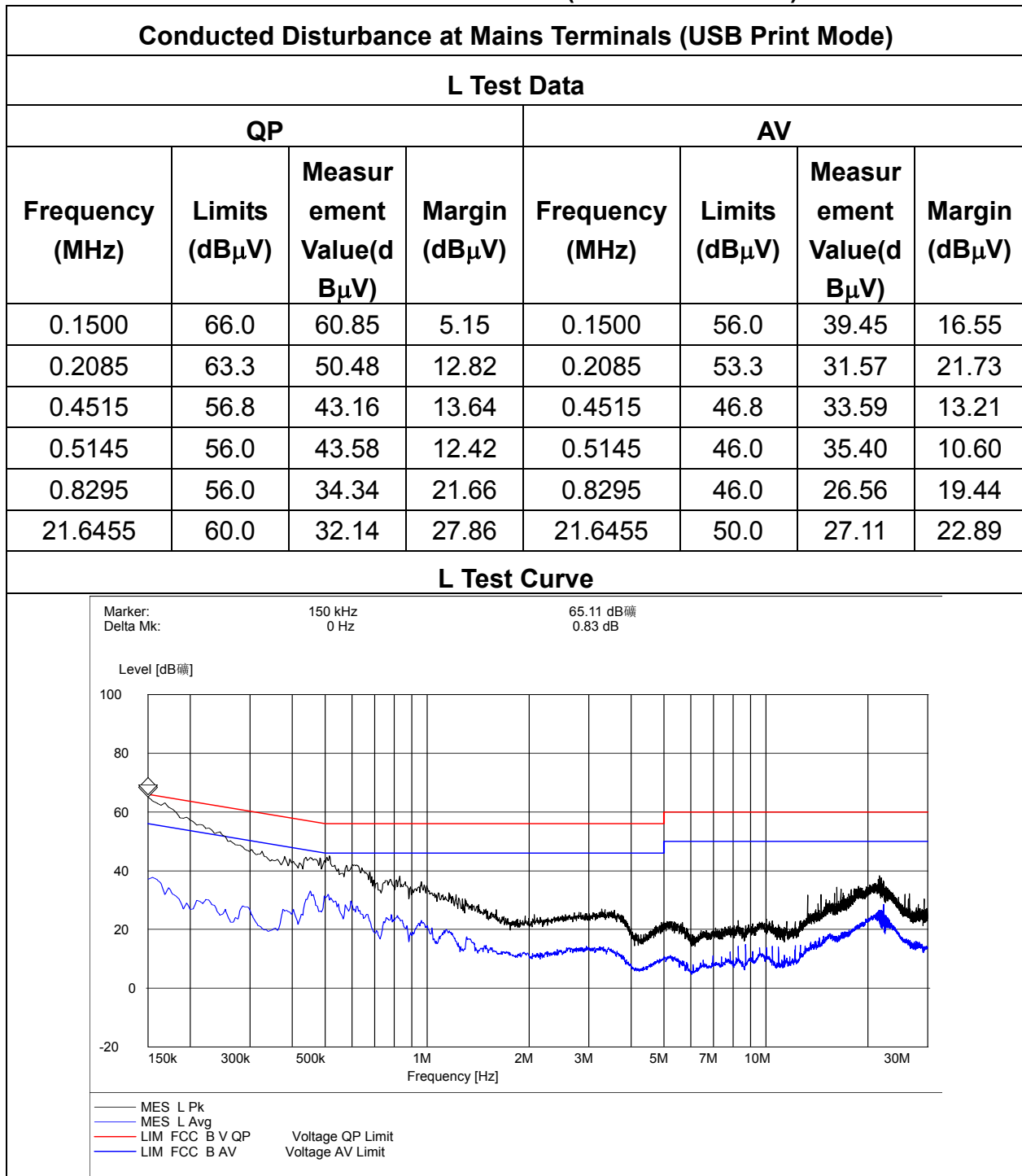
1. The lower limit shall apply at the transition frequencies.
2. The limit decreases linearly with the logarithm of the frequency in the range 0.15MHz to 0.50MHz.
3. The minimum margin value of quasi-peak and average level is over 3dB.

Conducted Disturbance at Mains Terminals (Standby Mode)**N Test Data**

QP				AV			
Frequency (MHz)	Limits (dB μ V)	Measurement Value (dB μ V)	Margin (dB μ V)	Frequency (MHz)	Limits (dB μ V)	Measurement Value (dB μ V)	Margin (dB μ V)
0.1500	66.0	62.31	3.69	0.1500	56.0	40.19	15.81
0.1770	64.6	56.45	8.15	0.1770	54.6	30.27	24.33
0.2535	61.6	46.56	15.04	0.2535	51.6	20.61	30.99
0.5010	56.0	35.10	20.90	0.5010	46.0	26.72	19.28
0.8700	56.0	23.22	32.78	0.8700	46.0	21.58	24.42
18.5360	60.0	28.33	31.67	18.5360	50.0	22.20	27.80

N Test Curve**NOTE:**

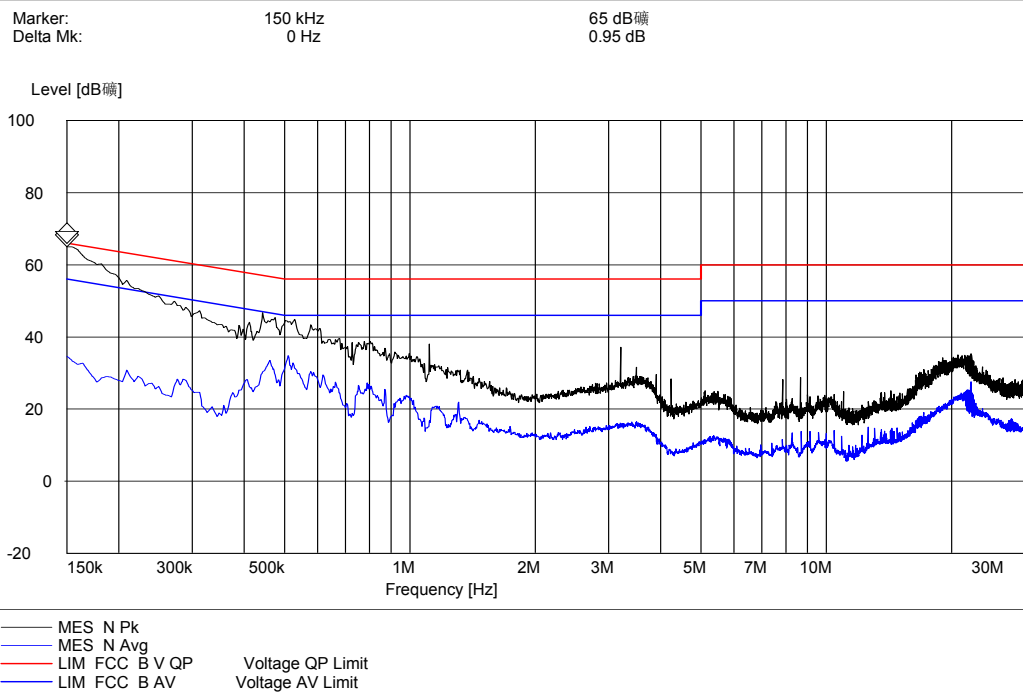
1. The lower limit shall apply at the transition frequencies.
2. The limit decreases linearly with the logarithm of the frequency in the range 0.15MHz to 0.50MHz.
3. The minimum margin value of quasi-peak and average level is over 3dB.

2. Conducted Disturbance at Mains Terminals (USB PRINT Mode)**NOTE:**

1. The lower limit shall apply at the transition frequencies.
2. The limit decreases linearly with the logarithm of the frequency in the range 0.15MHz to 0.50MHz.
3. The minimum margin value of quasi-peak and average level is over 3dB.

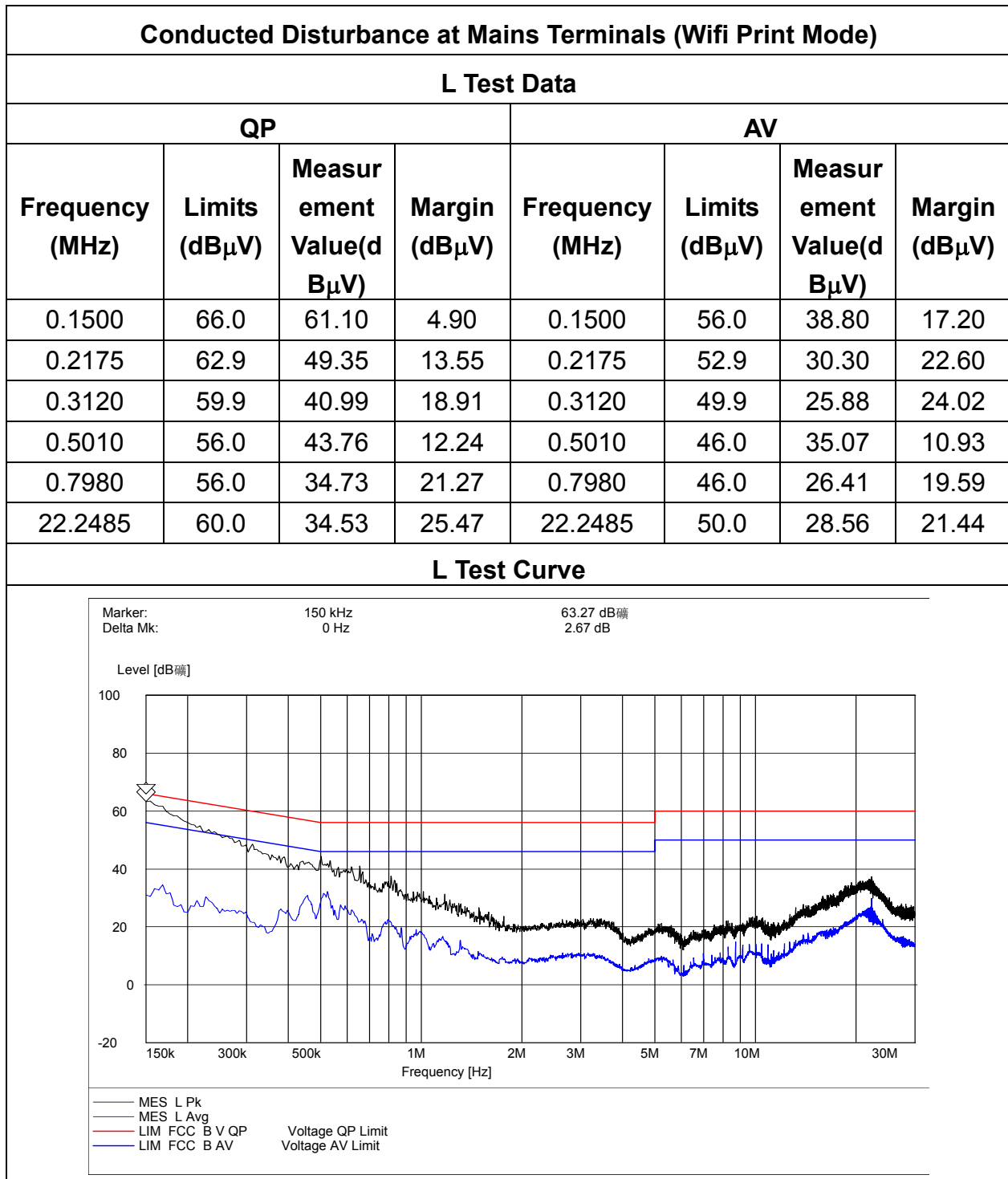
Conducted Disturbance at Mains Terminals (USB Print Mode)**N Test Data**

QP				AV			
Frequency (MHz)	Limits (dB μ V)	Measurement Value(dB μ V)	Margin (dB μ V)	Frequency (MHz)	Limits (dB μ V)	Measurement Value(dB μ V)	Margin (dB μ V)
0.1500	66.0	60.74	5.26	0.1500	56.0	39.75	16.25
0.2085	63.3	50.11	13.19	0.2085	53.3	32.36	20.94
0.4425	57.0	42.72	14.28	0.4425	47.0	32.14	14.86
0.5100	56.0	44.01	11.99	0.5100	46.0	35.53	10.47
0.5775	56.0	41.55	14.45	0.5775	46.0	30.83	15.17
22.2710	60.0	32.08	27.92	22.2710	50.0	26.16	23.84

N Test Curve**NOTE:**

1. The lower limit shall apply at the transition frequencies.
2. The limit decreases linearly with the logarithm of the frequency in the range 0.15MHz to 0.50MHz.
3. The minimum margin value of quasi-peak and average level is over 3dB.

3. Conducted Disturbance at Mains Terminals (Wifi Print Mode)

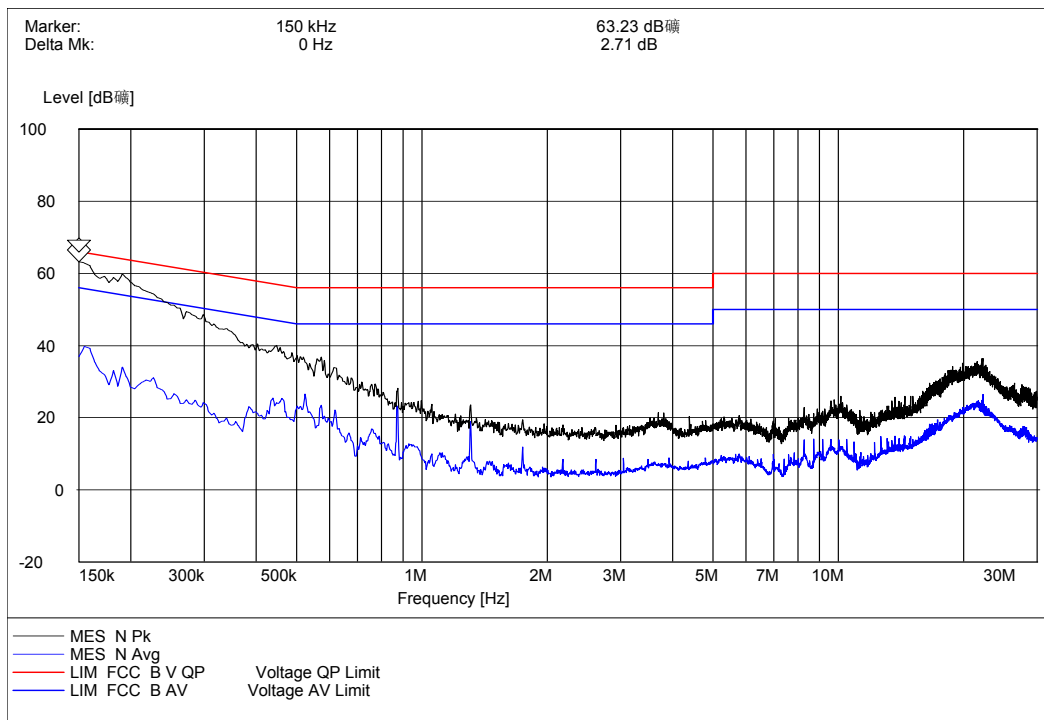


NOTE:

1. The lower limit shall apply at the transition frequencies.
2. The limit decreases linearly with the logarithm of the frequency in the range 0.15MHz to 0.50MHz.
3. The minimum margin value of quasi-peak and average level is over 3dB.

Conducted Disturbance at Mains Terminals (Wifi Print Mode)**N Test Data**

QP				AV			
Frequency (MHz)	Limits (dB μ V)	Measurement Value (dB μ V)	Margin (dB μ V)	Frequency (MHz)	Limits (dB μ V)	Measurement Value (dB μ V)	Margin (dB μ V)
0.1500	66.0	61.31	4.69	0.1500	56.0	39.04	16.96
0.1905	64.0	53.09	10.91	0.1905	54.0	31.27	22.73
0.2985	60.3	41.27	19.03	0.2985	50.3	25.68	24.62
0.5730	56.0	36.49	19.51	0.5730	46.0	28.01	17.99
0.8745	56.0	28.75	27.25	0.8745	46.0	23.98	22.02
22.2665	60.0	33.23	26.77	22.2665	50.0	26.40	23.60

N Test Curve**NOTE:**

1. The lower limit shall apply at the transition frequencies.
2. The limit decreases linearly with the logarithm of the frequency in the range 0.15MHz to 0.50MHz.
3. The minimum margin value of quasi-peak and average level is over 3dB.

4.3 Radiated Emission Test

4.3.1 Limits of Radiated Emission

The field strength of radiated emissions from unintentional radiators at a distance of 3 meters shall not exceed the following values:

Frequency of Emission (MHz)	Field Strength (dB μ V/m) at 3m
30 - 88	40(QP)
88 -216	43.5(QP)
216 - 960	46.4(QP)
960-1000	54(QP)
Above 1000	54(AV)/74(PK)

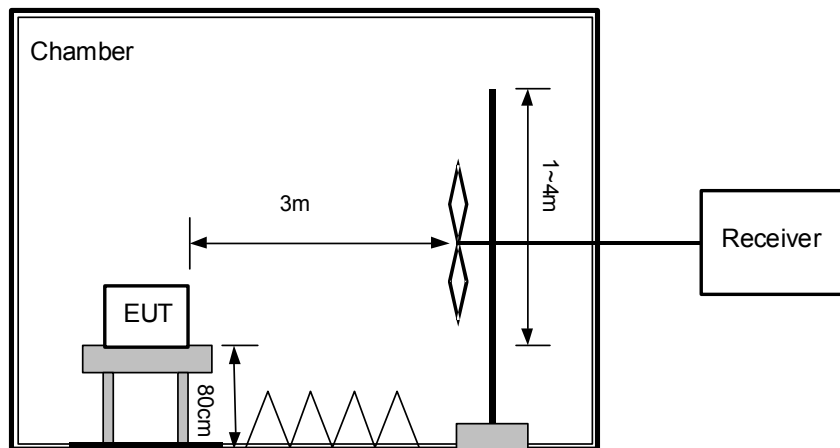
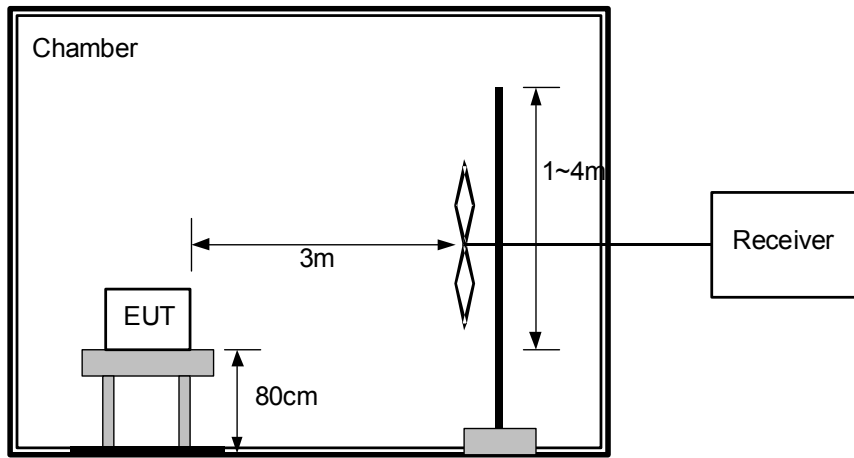
NOTE:

1. Field Strength (dB μ V/m)=20log Field Strength (μ V/m).
2. In the emission tables above, the tighter limit applies at the band edges.

4.3.2 Test Procedure

- a. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- b. The antenna is a broadband antenna, and its height is varied from one meter to four meter above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- c. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to the heights from 1 to 4 meters and the ratable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- d. The test-receiver system was set to Peak Detector Function and Specified Bandwidth with Maximum Hold Mode.
- e. If the emission level of the EUT in peak mode was 10 dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emission that did not have 10 dB margins would be retested one by one using the quasi-peak method.

4.3.3 Test Setup



Note: The highest frequency of the internal sources of the EUT is 480 MHz, the measurement was made up to 2 GHz.

4.3.4 Test Results

Environment Condition:

Temperature: 23°C; Relative Humidity: 52%; Pressure: 101kPa

Test Date: 2015-03-03, 2015-03-10, 2015-03-18

Test Engineer: Chen Weixiong

Test Site: 10m Anechoic Chamber

Test Mode: Mode 1-3

1. Radiated Emission Test data (Standby Mode)**-Horizontal**

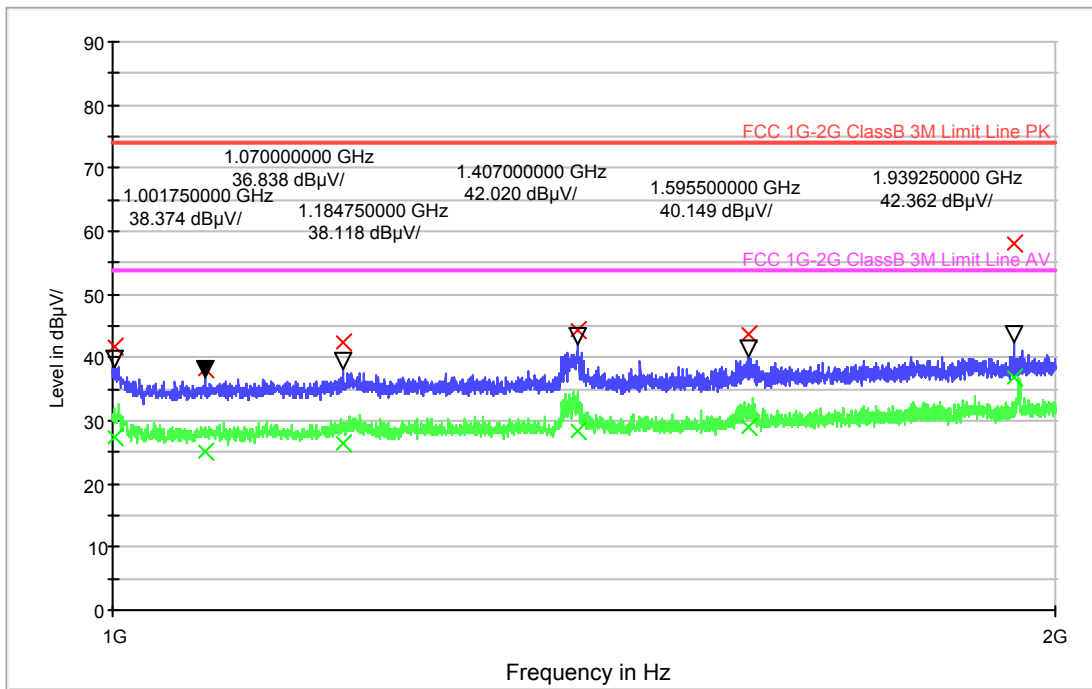
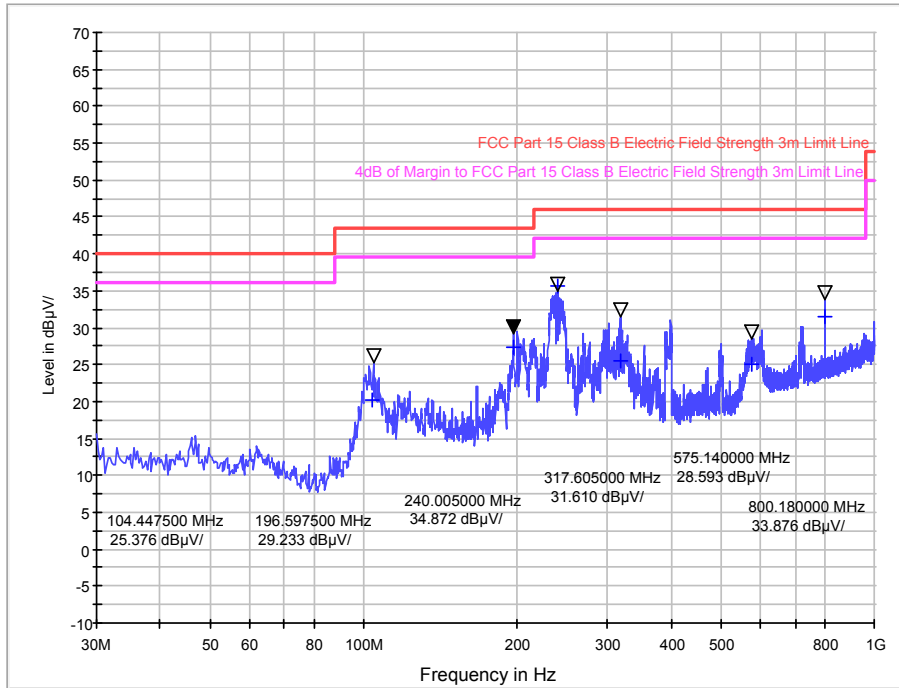
Frequency (MHz)	QuasiPeak (dB μ V/m)	Bandwidth (kHz)	Antenna height (cm)	Polarity	Turntable position (deg)	Corr. (dB)	Margin (dB)	Limit (dB μ V/m)
104.160000	20.1	120.000	300.0	H	0.0	-17.0	23.4	43.5
196.600000	27.4	120.000	100.0	H	0.0	-15.9	16.1	43.5
240.000000	35.7	120.000	100.0	H	347.0	-13.9	10.3	46.0
317.640000	25.6	120.000	100.0	H	0.0	-11.3	20.4	46.0
575.560000	25.1	120.000	300.0	H	0.0	-6.8	20.9	46.0
800.000000	31.4	120.000	300.0	H	0.0	-2.6	14.6	46.0

Frequency (MHz)	Peak (dB μ V/m)	Peak limit (dB μ V/m)	Peak Margin (dB)	Turntable position (deg)	Ant. height (cm)	Polarity
1001.6000	41.80	74.0	32.20	0.0	155.0	H
1070.0000	38.30	74.0	35.70	0.0	155.0	H
1184.8000	42.50	74.0	31.50	0.0	155.0	H
1407.2000	44.30	74.0	29.70	0.0	155.0	H
1595.6000	43.60	74.0	30.40	0.0	155.0	H
1939.2000	58.10	74.0	15.90	0.0	155.0	H

Frequency (MHz)	Average dB μ V/m	Average limit (dB μ V/m)	Average Margin (dB)	Turntable position (deg)	Ant. height (cm)	Polarity
1001.6000	27.30	54.0	26.70	0.0	155.0	H
1070.0000	25.00	54.0	29.00	0.0	155.0	H
1184.8000	26.50	54.0	27.50	0.0	155.0	H
1407.2000	28.30	54.0	25.70	0.0	155.0	H
1595.6000	29.10	54.0	24.90	0.0	155.0	H
1939.2000	36.90	54.0	17.10	0.0	155.0	H

NOTE:

The minimum margin value is over 4dB.



-Vertical

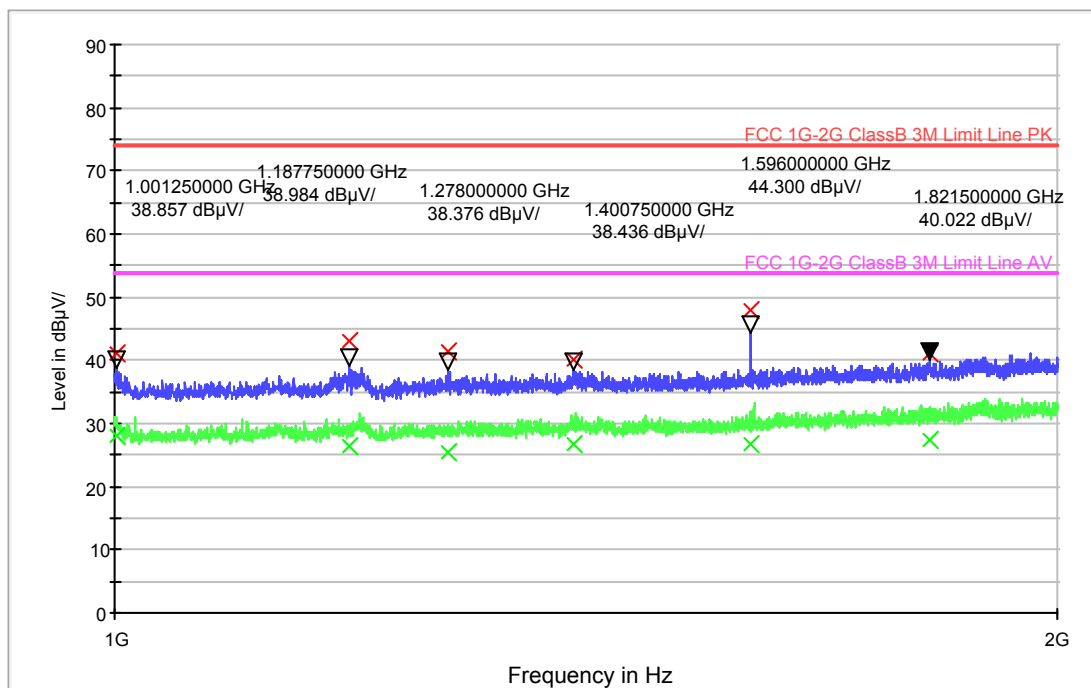
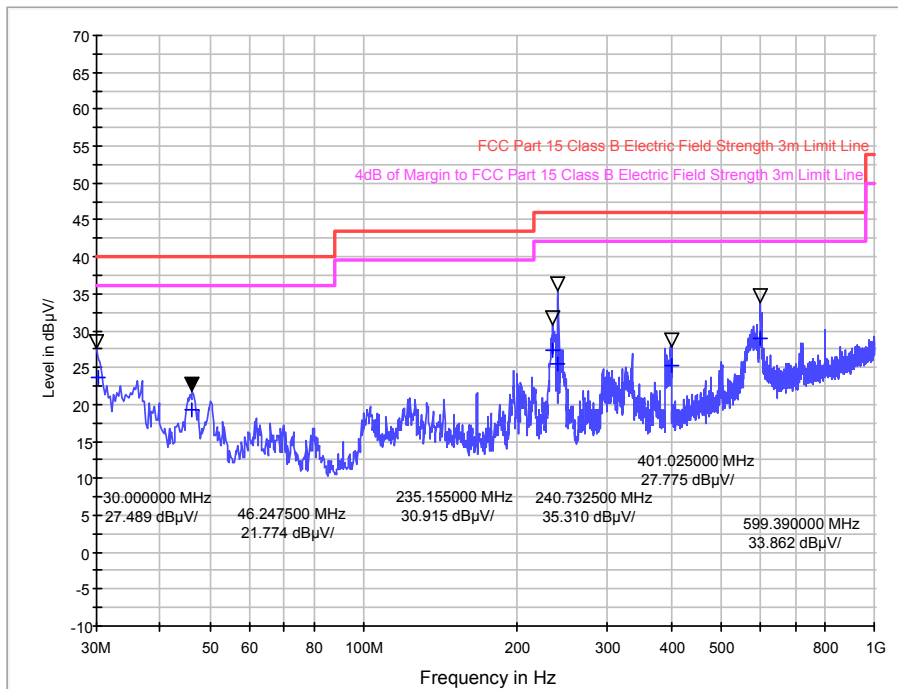
Frequency (MHz)	QuasiPeak (dB μ V/m)	Bandwidth (kHz)	Antenna height (cm)	Polarity	Turntable position (deg)	Corr. (dB)	Margin (dB)	Limit (dB μ V/m)
30.120000	23.7	120.000	100.0	V	25.0	-16.2	16.3	40.0
46.120000	19.3	120.000	100.0	V	227.0	-15.5	20.7	40.0
234.800000	27.3	120.000	300.0	V	0.0	-14.2	18.7	46.0
240.760000	25.6	120.000	300.0	V	0.0	-13.9	20.4	46.0
400.680000	25.3	120.000	100.0	V	13.0	-9.7	20.7	46.0
599.760000	28.9	120.000	100.0	V	0.0	-6.1	17.1	46.0

Frequency (MHz)	Peak (dB μ V/m)	Peak limit (dB μ V/m)	Peak Margin (dB)	Turntable position (deg)	Ant. height (cm)	Polarity
1001.2000	41.00	74.0	33.00	0.0	155.0	V
1187.6000	43.20	74.0	30.80	0.0	155.0	V
1278.0000	41.50	74.0	32.50	0.0	155.0	V
1400.8000	40.00	74.0	34.00	0.0	155.0	V
1596.0000	48.00	74.0	26.00	0.0	155.0	V
1821.6000	41.10	74.0	32.90	0.0	155.0	V

Frequency (MHz)	Average dB μ V/m	Average limit (dB μ V/m)	Average Margin (dB)	Turntable position (deg)	Ant. height (cm)	Polarity
1001.2000	28.10	54.0	25.90	0.0	155.0	V
1187.6000	26.30	54.0	27.70	0.0	155.0	V
1278.0000	25.30	54.0	28.70	0.0	155.0	V
1400.8000	26.80	54.0	27.20	0.0	155.0	V
1596.0000	26.60	54.0	27.40	0.0	155.0	V
1821.6000	27.30	54.0	26.70	0.0	155.0	V

NOTE:

The minimum margin value is over 4dB.



2. Radiated Emission Test data (USB Print Mode)**-Horizontal**

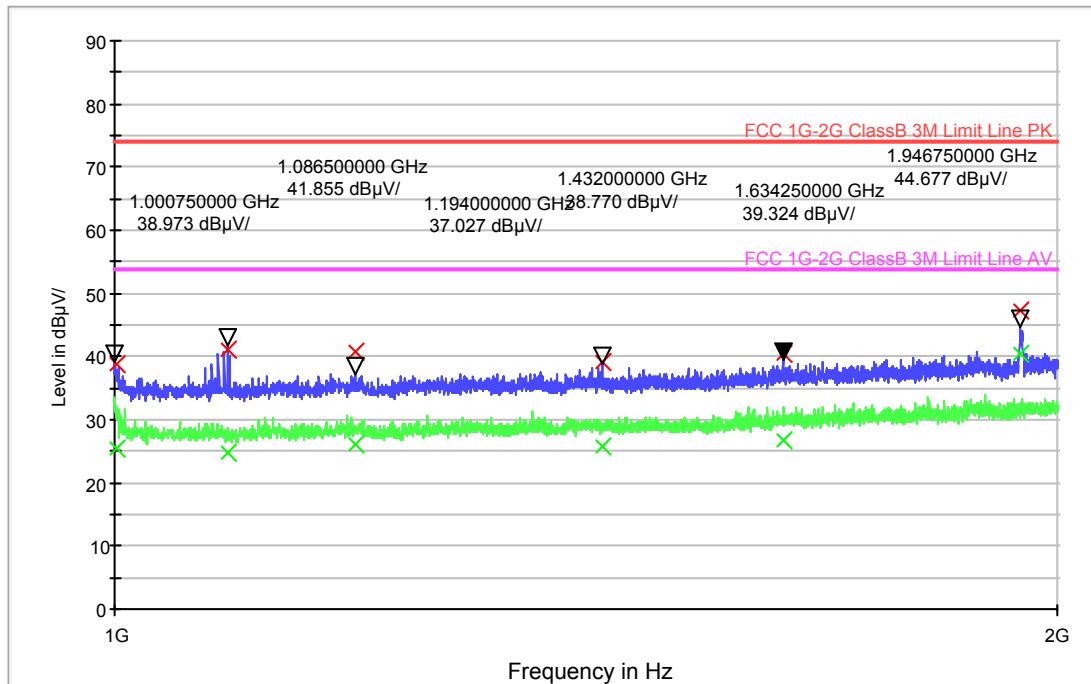
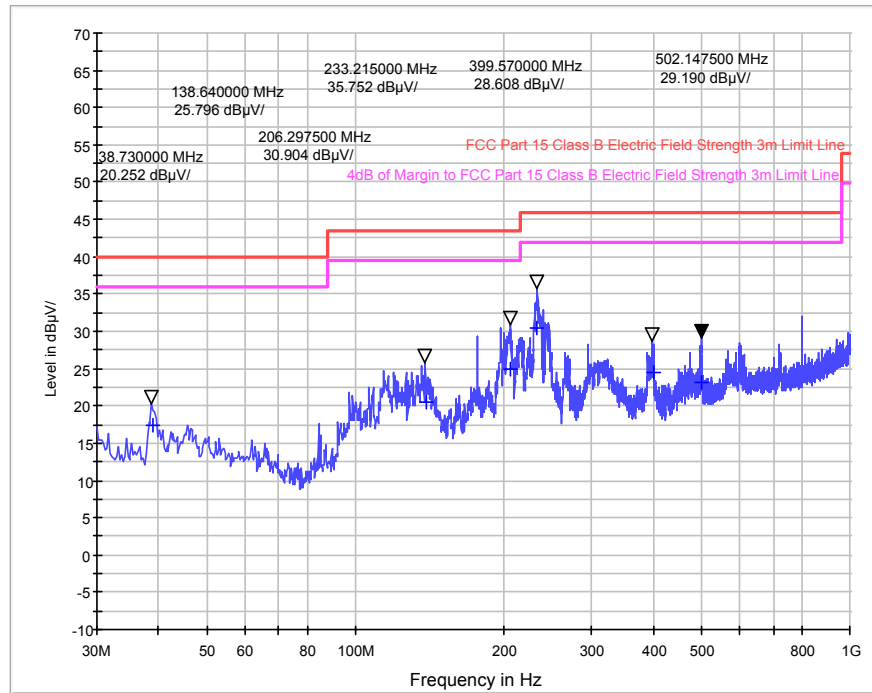
Frequency (MHz)	QuasiPeak (dB μ V/m)	Bandwidth (kHz)	Antenna height (cm)	Polarity	Turntable position (deg)	Corr. (dB)	Margin (dB)	Limit (dB μ V/m)
39.000000	17.4	120.000	300.0	H	299.0	-15.6	22.6	40.0
138.840000	20.5	120.000	300.0	H	337.0	-13.8	23.0	43.5
206.320000	25.0	120.000	300.0	H	42.0	-15.9	18.5	43.5
233.480000	30.4	120.000	300.0	H	321.0	-14.3	15.6	46.0
400.000000	24.4	120.000	300.0	H	0.0	-9.7	21.6	46.0
501.920000	23.2	120.000	300.0	H	0.0	-8.4	22.8	46.0

Frequency (MHz)	Peak (dB μ V/m)	Peak limit (dB μ V/m)	Peak Margin (dB)	Turntable position (deg)	Ant. height (cm)	Polarity
1000.8000	38.70	74.0	35.30	0.0	155.0	H
1086.4000	40.90	74.0	33.10	0.0	155.0	H
1194.0000	40.80	74.0	33.20	0.0	155.0	H
1432.0000	39.00	74.0	35.00	0.0	155.0	H
1634.4000	40.30	74.0	33.70	0.0	155.0	H
1946.8000	47.20	74.0	26.80	0.0	155.0	H

Frequency (MHz)	Average dB μ V/m	Average limit (dB μ V/m)	Average Margin (dB)	Turntable position (deg)	Ant. height (cm)	Polarity
1000.8000	25.30	54.0	28.70	0.0	155.0	H
1086.4000	24.90	54.0	29.10	0.0	155.0	H
1194.0000	25.90	54.0	28.10	0.0	155.0	H
1432.0000	25.80	54.0	28.20	0.0	155.0	H
1634.4000	26.80	54.0	27.20	0.0	155.0	H
1946.8000	40.50	54.0	13.50	0.0	155.0	H

NOTE:

The minimum margin value is over 4dB.



-Vertical

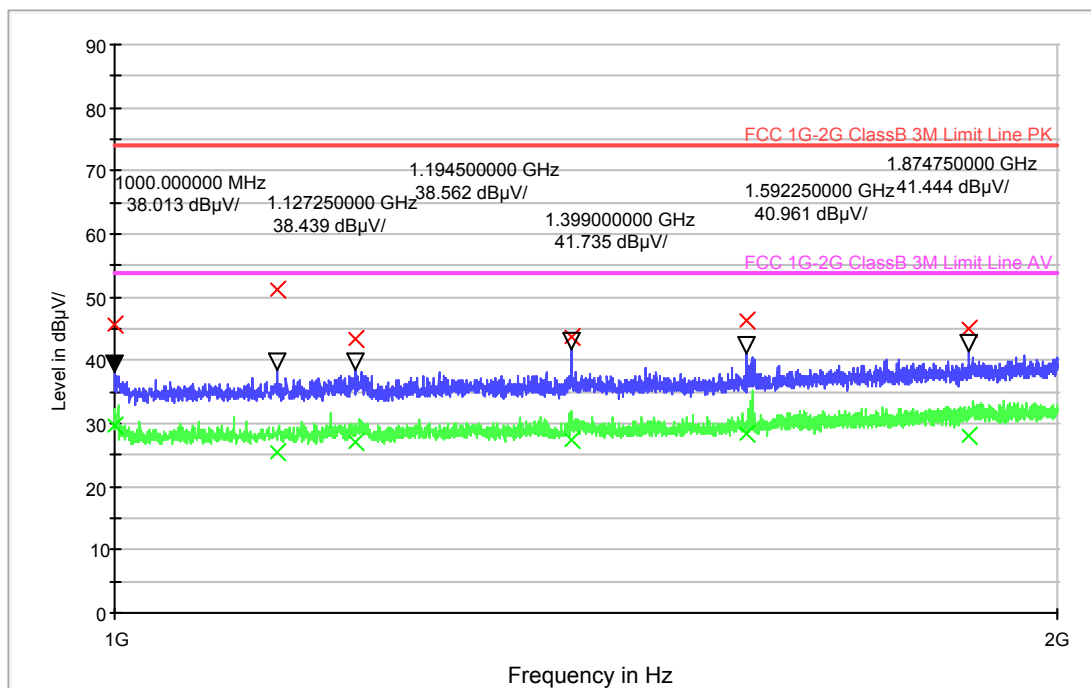
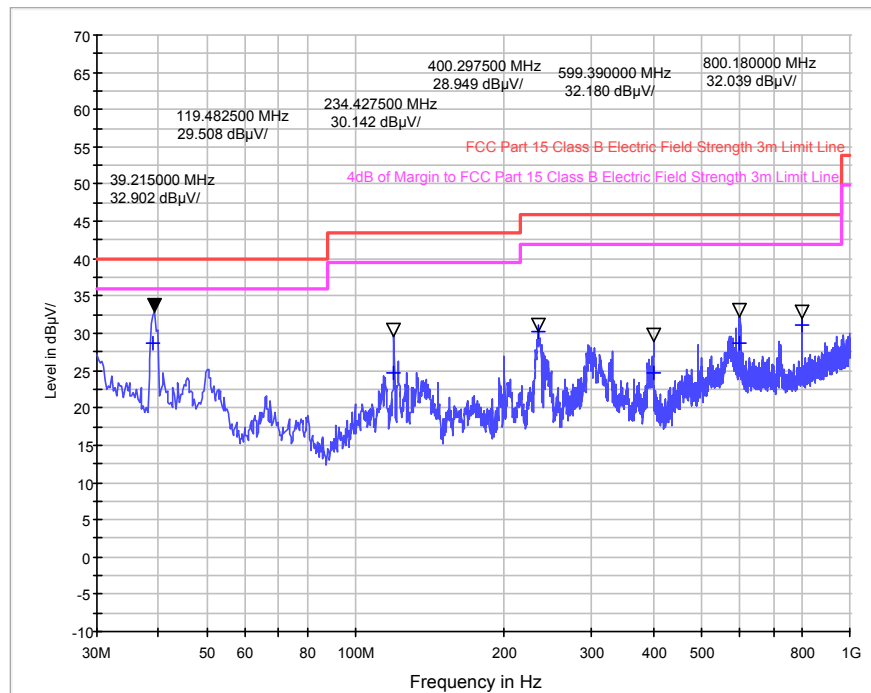
Frequency (MHz)	QuasiPeak (dB μ V/m)	Bandwidth (kHz)	Antenna height (cm)	Polarity	Turntable position (deg)	Corr. (dB)	Margin (dB)	Limit (dB μ V/m)
38.800000	28.7	120.000	100.0	V	0.0	-15.6	11.3	40.0
119.480000	24.6	120.000	100.0	V	0.0	-15.5	18.9	43.5
234.440000	30.3	120.000	100.0	V	0.0	-14.2	15.7	46.0
400.000000	24.6	120.000	100.0	V	0.0	-9.7	21.4	46.0
599.480000	28.7	120.000	100.0	V	1.0	-6.2	17.3	46.0
800.000000	31.0	120.000	100.0	V	0.0	-2.6	15.0	46.0

Frequency (MHz)	Peak (dB μ V/m)	Peak limit (dB μ V/m)	Peak Margin (dB)	Turntable position (deg)	Ant. height (cm)	Polarity
1000.0000	45.80	74.0	28.20	0.0	155.0	V
1127.2000	51.30	74.0	22.70	0.0	155.0	V
1194.4000	43.50	74.0	30.50	0.0	155.0	V
1399.2000	43.60	74.0	30.40	0.0	155.0	V
1592.4000	46.40	74.0	27.60	0.0	155.0	V
1874.8000	45.10	74.0	28.90	0.0	155.0	V

Frequency (MHz)	Average dB μ V/m	Average limit (dB μ V/m)	Average Margin (dB)	Turntable position (deg)	Ant. height (cm)	Polarity
1000.0000	29.80	54.0	24.20	0.0	155.0	V
1127.2000	25.50	54.0	28.50	0.0	155.0	V
1194.4000	27.00	54.0	27.00	0.0	155.0	V
1399.2000	27.20	54.0	26.80	0.0	155.0	V
1592.4000	28.30	54.0	25.70	0.0	155.0	V
1874.8000	28.20	54.0	25.80	0.0	155.0	V

NOTE:

The minimum margin value is over 4dB.



3. Radiated Emission Test data (Wifi Print Mode)**-Horizontal**

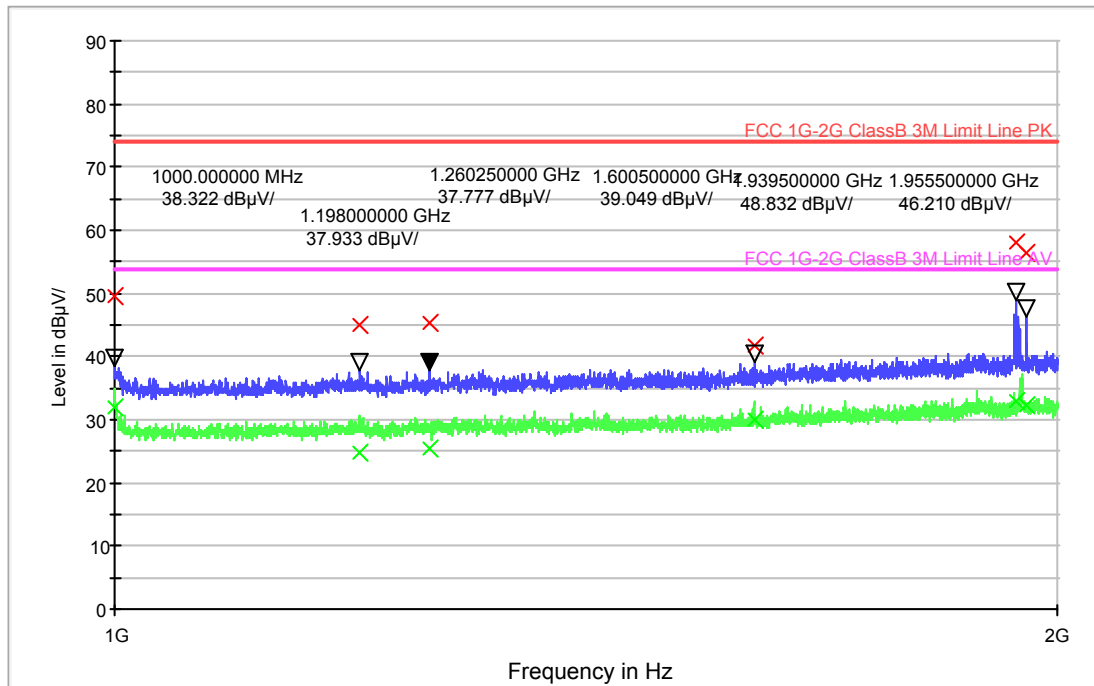
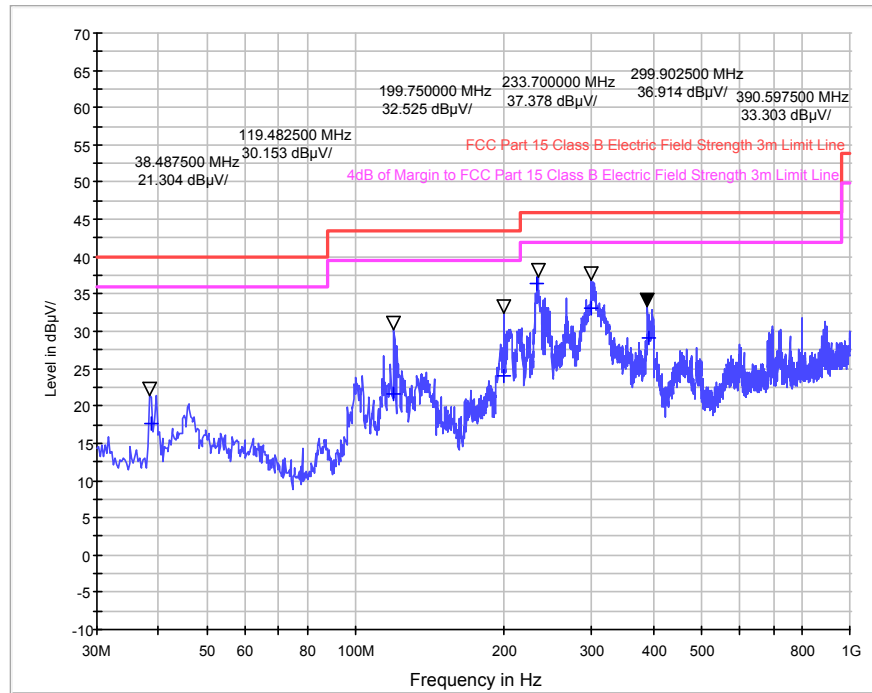
Frequency (MHz)	QuasiPeak (dB μ V/m)	Bandwidth (kHz)	Antenna height (cm)	Polarity	Turntable position (deg)	Corr. (dB)	Margin (dB)	Limit (dB μ V/m)
38.720000	17.5	120.000	300.0	H	0.0	-15.6	22.5	40.0
119.320000	21.5	120.000	300.0	H	320.0	-15.5	22.0	43.5
199.760000	24.1	120.000	300.0	H	0.0	-16.0	19.4	43.5
233.360000	36.3	120.000	100.0	H	159.0	-14.3	9.7	46.0
299.840000	33.1	120.000	100.0	H	0.0	-11.6	12.9	46.0
391.080000	29.1	120.000	100.0	H	0.0	-9.9	16.9	46.0

Frequency (MHz)	Peak (dB μ V/m)	Peak limit (dB μ V/m)	Peak Margin (dB)	Turntable position (deg)	Ant. height (cm)	Polarity
1000.0000	49.60	74.0	24.40	0.0	155.0	H
1198.0000	45.10	74.0	28.90	0.0	155.0	H
1260.4000	45.20	74.0	28.80	0.0	155.0	H
1600.4000	41.80	74.0	32.20	0.0	155.0	H
1939.6000	58.10	74.0	15.90	0.0	155.0	H
1955.6000	56.30	74.0	17.70	0.0	155.0	H

Frequency (MHz)	Average dB μ V/m	Average limit (dB μ V/m)	Average Margin (dB)	Turntable position (deg)	Ant. height (cm)	Polarity
1000.0000	31.80	54.0	22.20	0.0	155.0	H
1198.0000	24.90	54.0	29.10	0.0	155.0	H
1260.4000	25.40	54.0	28.60	0.0	155.0	H
1600.4000	30.10	54.0	23.90	0.0	155.0	H
1939.6000	33.00	54.0	21.00	0.0	155.0	H
1955.6000	32.10	54.0	21.90	0.0	155.0	H

NOTE:

The minimum margin value is over 4dB.



-Vertical

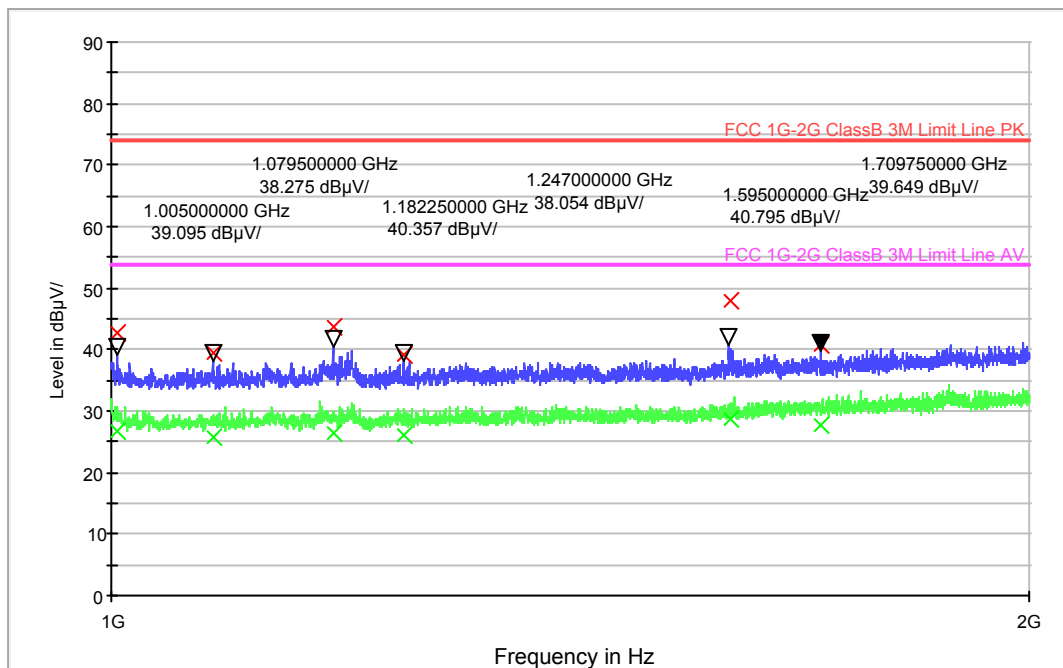
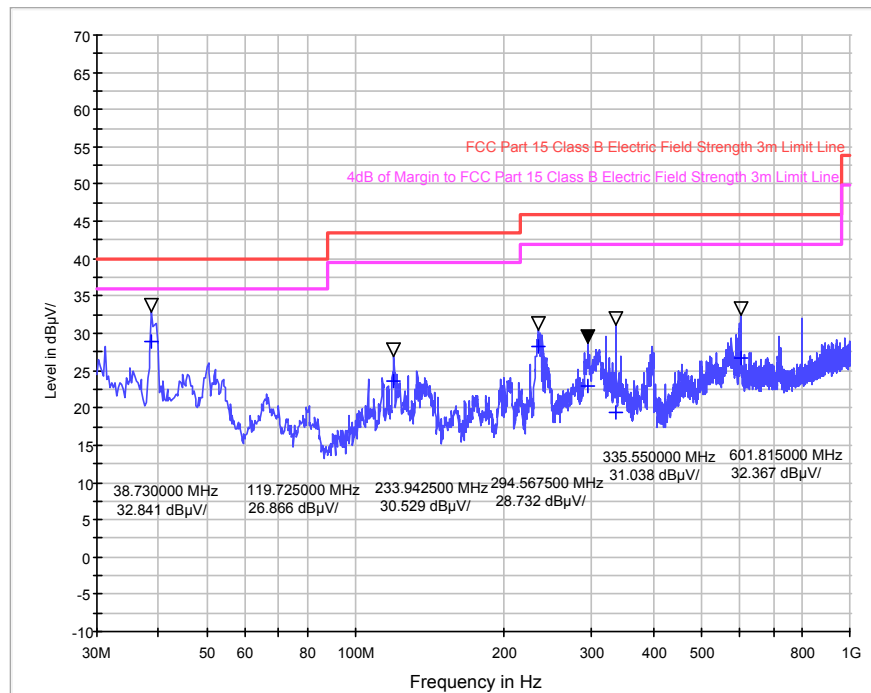
Frequency (MHz)	QuasiPeak (dB μ V/m)	Bandwidth (kHz)	Antenna height (cm)	Polarity	Turntable position (deg)	Corr. (dB)	Margin (dB)	Limit (dB μ V/m)
38.720000	28.8	120.000	100.0	V	0.0	-15.6	11.2	40.0
119.560000	23.7	120.000	100.0	V	1.0	-15.5	19.8	43.5
234.080000	28.3	120.000	100.0	V	0.0	-14.2	17.7	46.0
294.840000	22.9	120.000	100.0	V	0.0	-11.7	23.1	46.0
335.680000	19.5	120.000	100.0	V	0.0	-10.9	26.5	46.0
601.400000	26.7	120.000	100.0	V	0.0	-6.1	19.3	46.0

Frequency (MHz)	Peak (dB μ V/m)	Peak limit (dB μ V/m)	Peak Margin (dB)	Turntable position (deg)	Ant. height (cm)	Polarity
1005.2000	42.60	74.0	31.40	0.0	155.0	V
1079.6000	39.30	74.0	34.70	0.0	155.0	V
1182.4000	43.60	74.0	30.40	0.0	155.0	V
1247.2000	39.20	74.0	34.80	0.0	155.0	V
1595.2000	47.80	74.0	26.20	0.0	155.0	V
1709.6000	40.90	74.0	33.10	0.0	155.0	V

Frequency (MHz)	Average dB μ V/m	Average limit (dB μ V/m)	Average Margin (dB)	Turntable position (deg)	Ant. height (cm)	Polarity
1005.2000	26.60	54.0	27.40	0.0	155.0	V
1079.6000	25.90	54.0	28.10	0.0	155.0	V
1182.4000	26.30	54.0	27.70	0.0	155.0	V
1247.2000	26.20	54.0	27.80	0.0	155.0	V
1595.2000	28.70	54.0	25.30	0.0	155.0	V
1709.6000	27.80	54.0	26.20	0.0	155.0	V

NOTE:

The minimum margin value is over 4dB.



Appendix I: Photographs of the EUT

1. Appearance

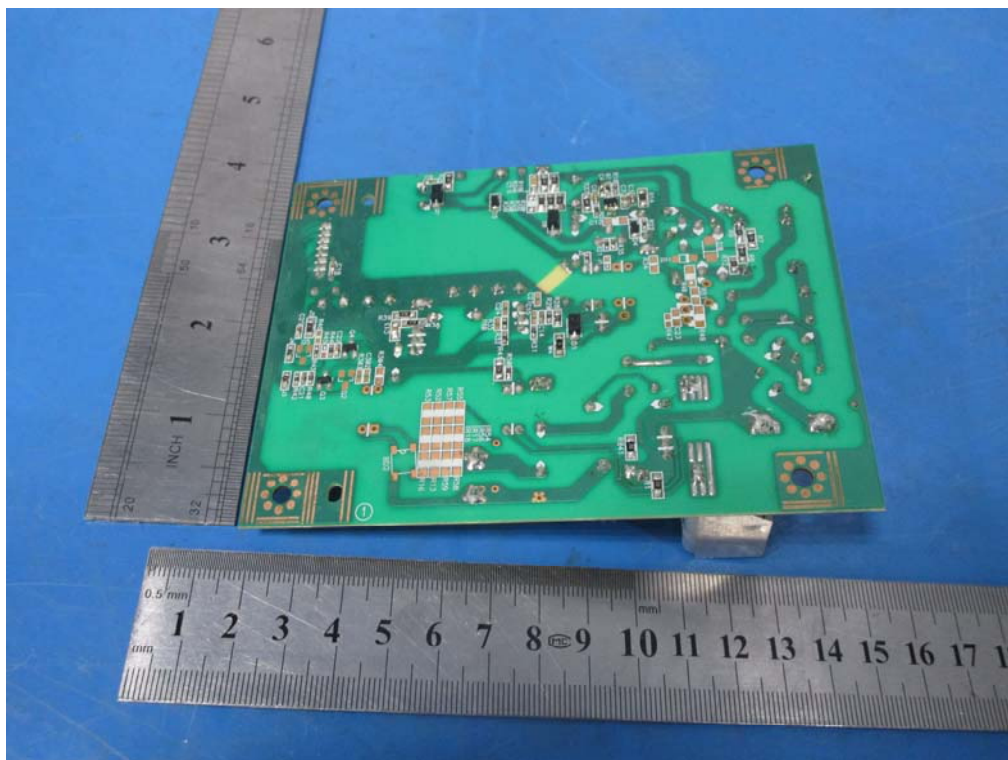




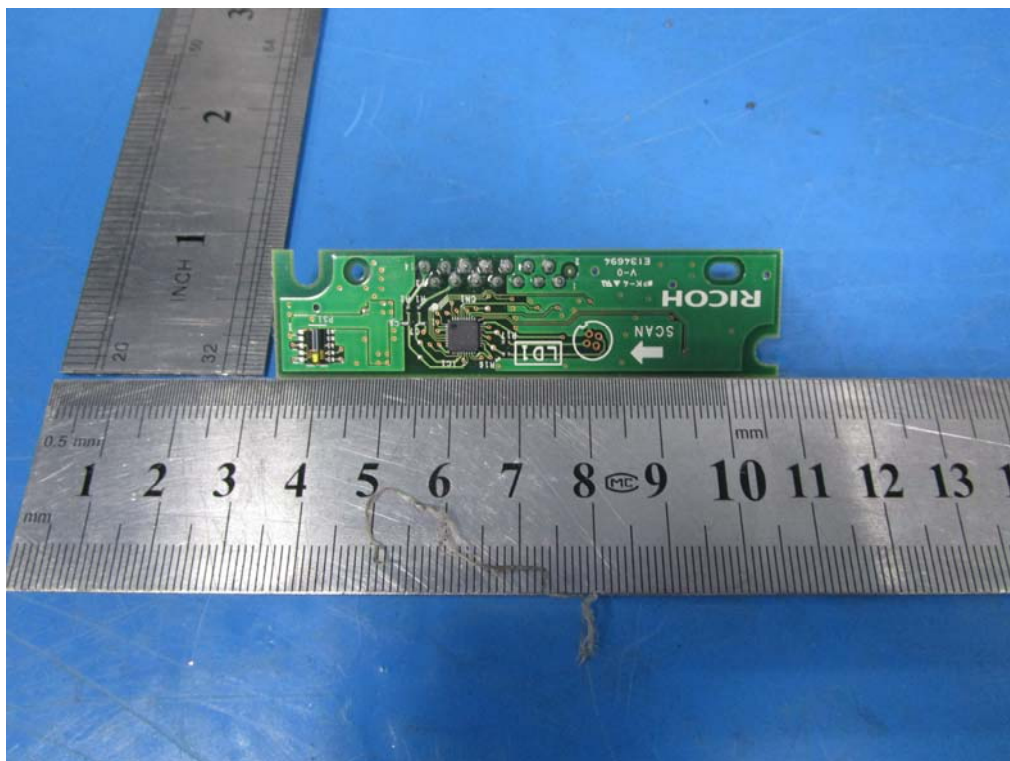
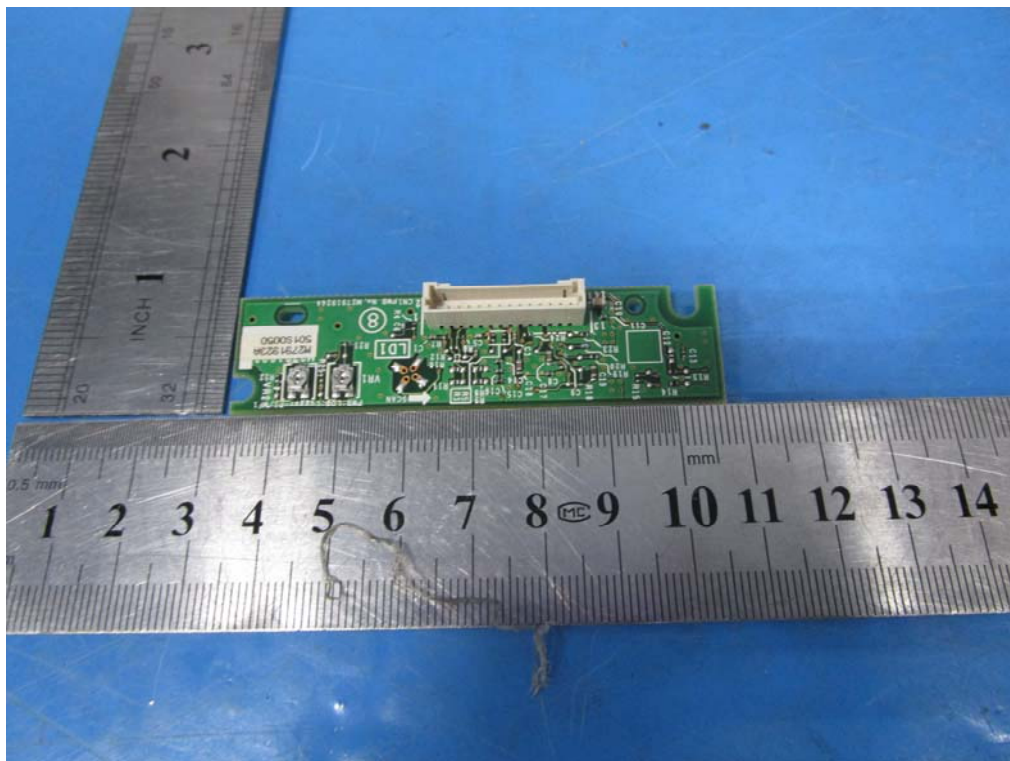


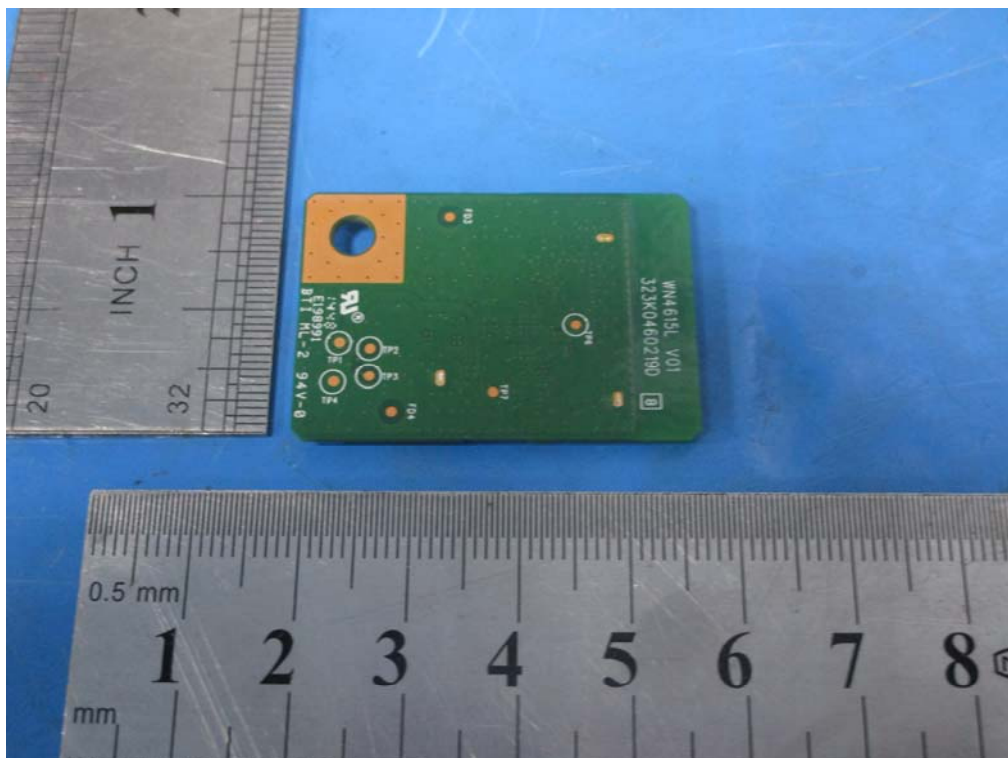
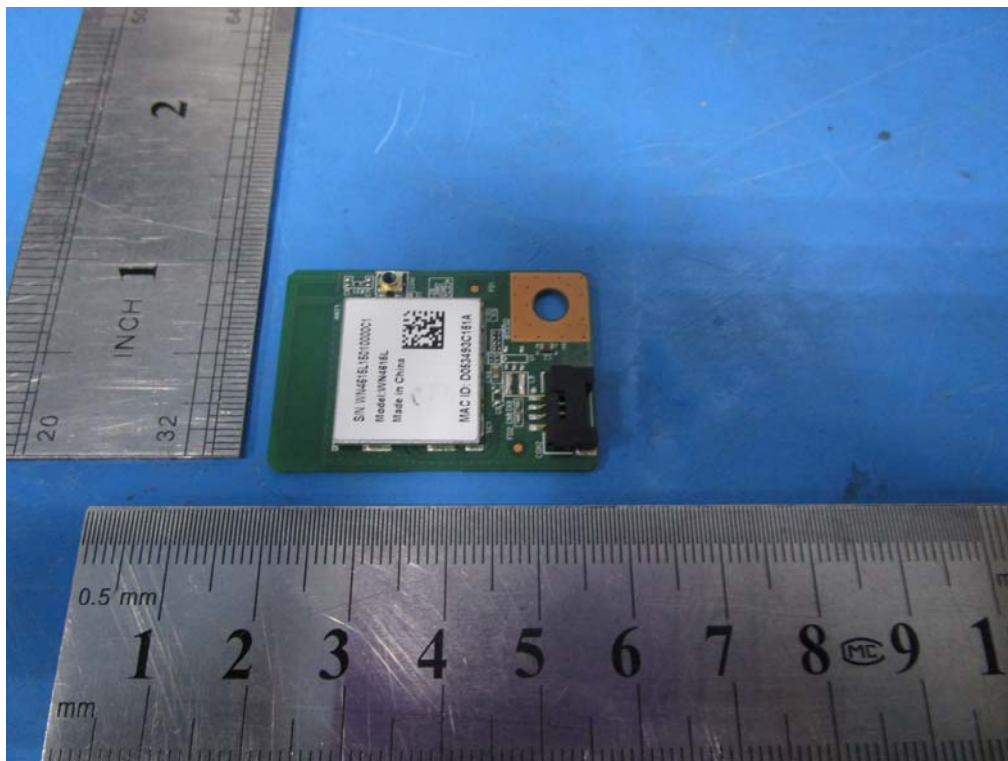
2. Inside

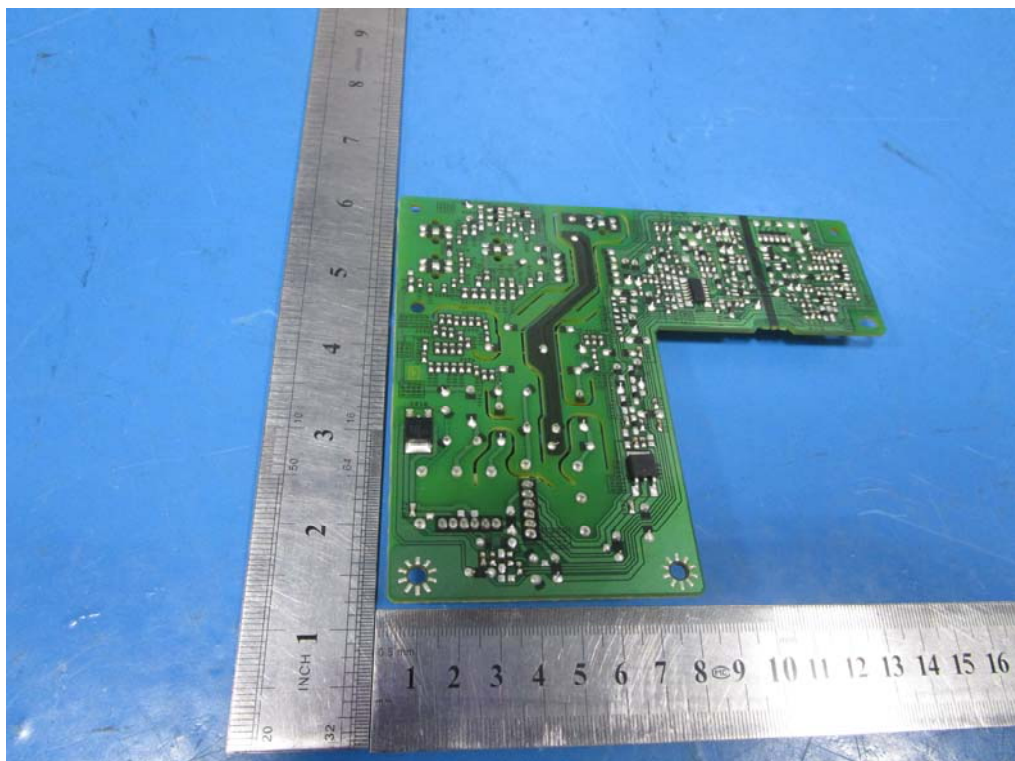
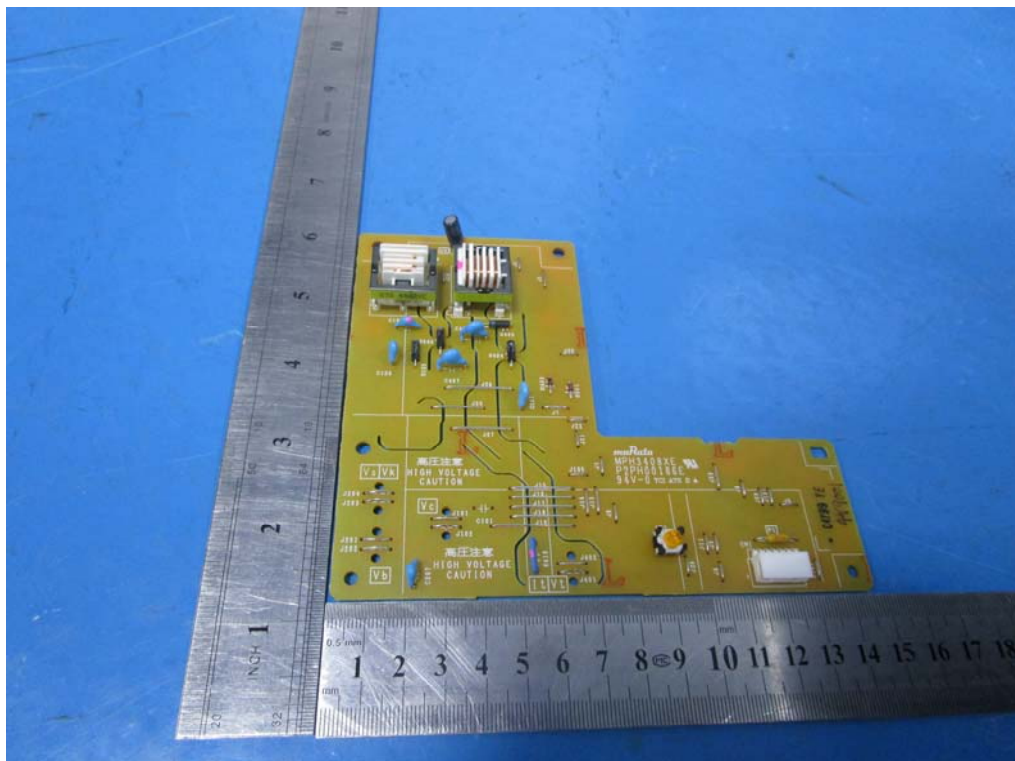




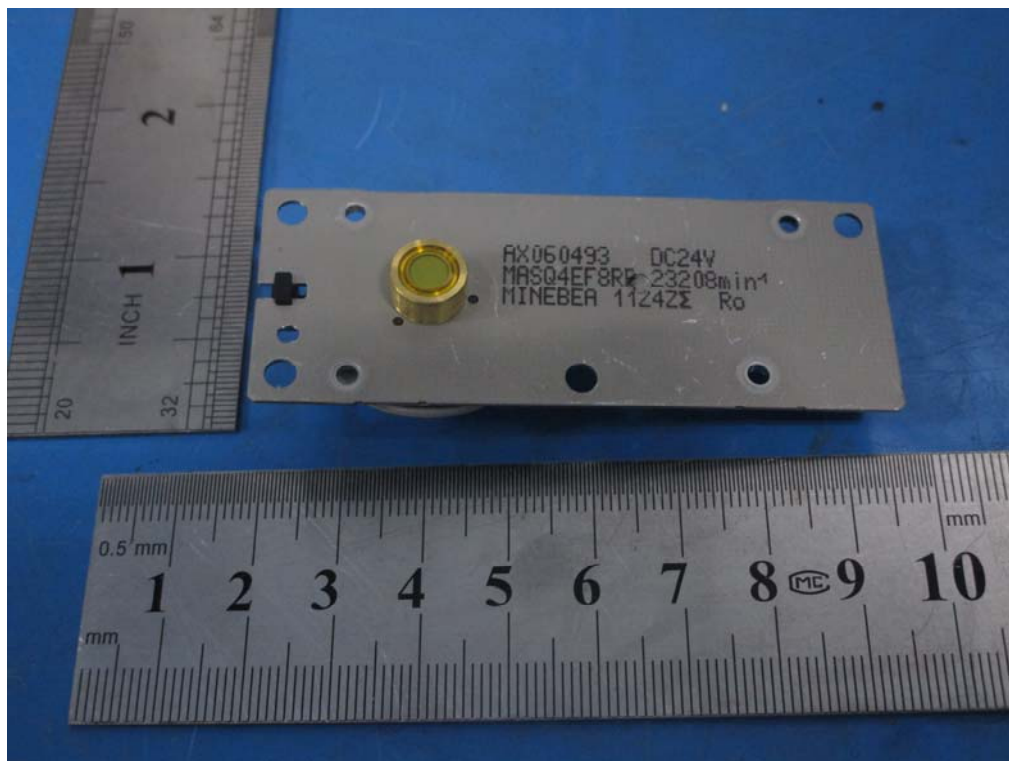
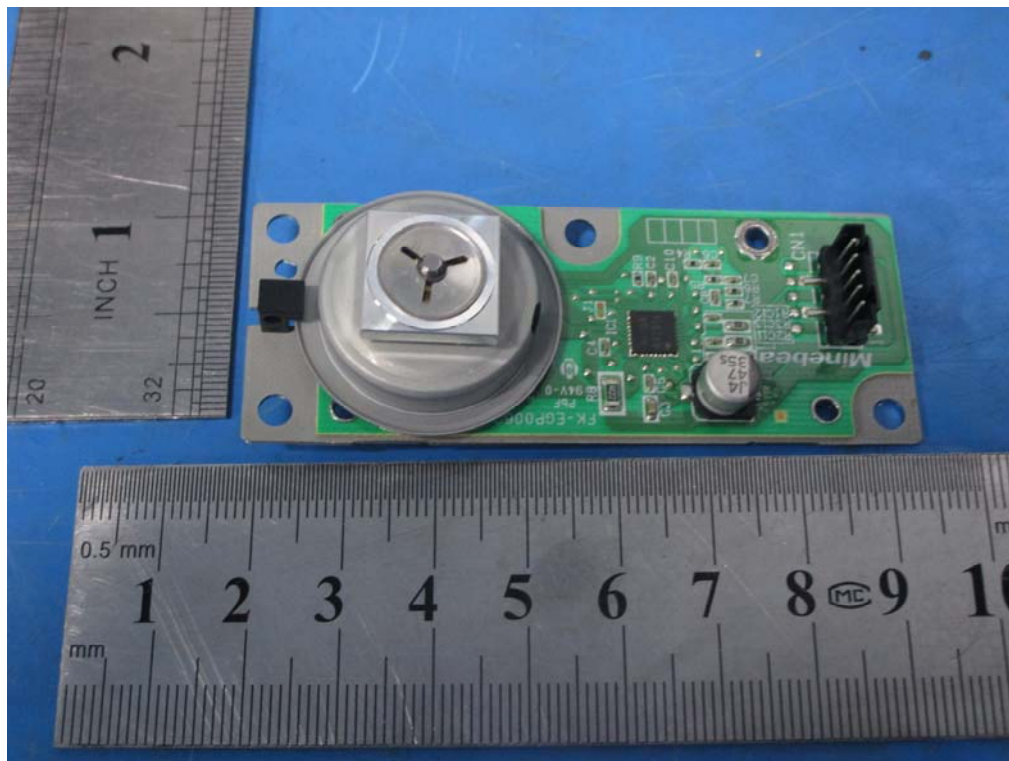










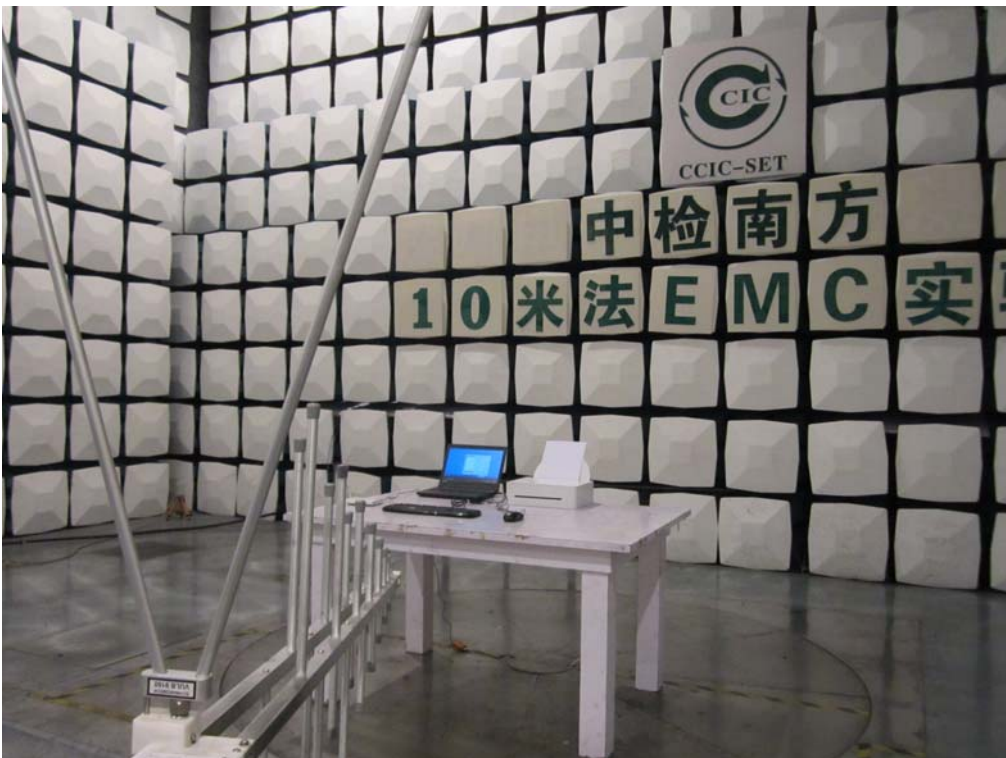


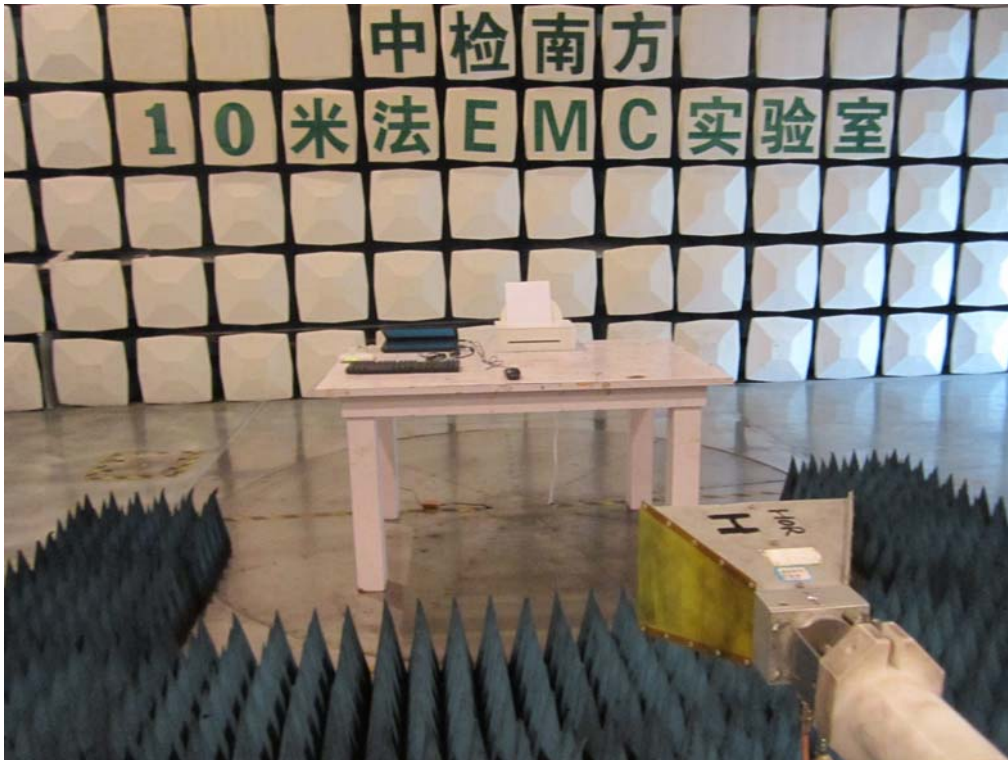
Appendix II: Photographs of EMC Test Configuration

1. Mains Terminal Disturbance Voltage Measurement



2. Radiated Field Strength Measurement





End of Report