



# EMC TEST REPORT

**Report No.:** SET2014-05647

**Product Name:** 10.1"Tablet

**FCC ID:** 2ABMA-888-700-202

**Model No. :** 888-700-202

**Applicant:** LYNX INNOVATION LTD

**Address:** UNIT 8A 331 ROSEDALE ROAD ALBANY 0632 NORTH  
SHORE CITY AUCKLAND, NEW ZEALAND

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

**Lab Location:** Electronic Testing Building, Shahe Road, Xili, Nanshan District,  
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## Test Report

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**Applicant**..... : LYNX INNOVATION LTD

**Applicant Address**..... : UNIT 8A 331 ROSEDALE ROAD ALBANY 0632 NORTH  
SHORE CITY AUCKLAND,NEW ZEALAND

**Manufacturer**..... : JIAXING LYNX DISPLAYS LIMITED

**Manufacturer Address** ..... : FL.1 BLDG. 7#3288 ZHONGSHAN RD(W) XIUZHOU  
INDUSTRIAL PARK JIAXING ZHEJIANG 314000 CHINA

**Test Standards**..... : 47 CFR Part 15 Subpart B: Radio Frequency Devices

**Test Result** ..... : PASS

**Tested by** ..... : Xiaolong Zhang 2014.06.12  
Xiaolong Zhang, Test Engineer

**Reviewed by**..... : Shuangwen Zhang 2014.06.12  
Shuangwen Zhang, Senior Engineer

**Approved by** ..... : Wu Lian 2014.06.12  
Wu Li'an, Manager

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Change History		
Issue	Date	Reason for change
1.0	2014.06.12	First edition



## 1. GENERAL INFORMATION

### 1.1 EUT Description

EUT Type ..... : 888-700-202  
Serial No..... : (n.a, marked #1 by test site)  
FCC ID ..... : 2ABMA-888-700-202  
Hardware Version..... : 1.3  
Software Version ..... : 1.0.0  
Ancillary Equipment 1 ..... : PC  
Brand Name:ThinkPad  
Model Name:E430C  
Serial No.:A131101550

*Note1:*The EUT is a 10.1"Tablet, it supports the following operating mode and frequency band:  
802.11b,802.11g ,802.11n/20M,802n/40M and Bluetooth 2.1+EDR

*Note2:*The EUT is equipped with a T-Flash card slot; equipped with a USB port ,LAN Port ,mini  
HDMI Port ,DC Port and LYNX Port which can be connected to the ancillary equipments.

*Note3:*For a more detailed description, please refer to Specification or User's Manual supplied by the  
applicant and/or manufacturer.



## 1.2 Test Standards and Results

The objective of the report is to perform testing according to 47 CFR Part 15 Subpart B:

No.	Identity	Document Title
1	47 CFR Part 15 Subpart B 2012	Radio Frequency Devices

Test detailed items/section required by FCC rules and results are as below:

No.	Section	Description	Result
1	15.107	Conducted Emission	PASS
2	15.109	Radiated Emission	PASS

NOTE: The EUT has been tested according to 47 CFR Part 15 Subpart B, Class B. The test procedure is according to ANSI C63.4:2009 and CISPR 22:2008. The test results are as following:



### 1.3 Facilities and Accreditations

#### 1.3.1 Facilities

##### **CNAS-Lab Code: L1659**

CCIC-SET Southern Electronic Product Testing (Shenzhen) Co., Ltd. CCIC is a third party testing organization accredited by China National Accreditation Service for Conformity Assessment (CNAS) according to ISO/IEC 17025. The accreditation certificate number is L1659. A 12.8\*6.8\*6.4 (m) fully anechoic chamber was used for the radiated spurious emissions test.

##### **FCC-Registration No.: 406086**

CCIC-SET Southern Electronic Product Testing (Shenzhen) Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the FCC (Federal Communications Commission). The acceptance letter from the FCC is maintained in our files. Registration 406086, Renewal date Nov. 19, 2011, valid time is until Nov. 18, 2014.

#### 1.3.2 Test Environment Conditions

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

Temperature (°C):	15°C - 35°C
Relative Humidity	30% -60%
Atmospheric Pressure (kPa):	86KPa-106KPa

#### 1.3.3 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:	Uc = 3.6 dB (k=2)
Uncertainty of Radiated Emission:	Uc = 4.5 dB (k=2)

## 2. TEST CONDITIONS SETTING

### 2.1 Test Mode

(1) The first test mode(HDMI)

The EUT configuration of the emission tests was Display + EUT + adapter+earphone

In this test mode, the EUT was connected to Display via a HDMI cable with a core, and established a network via reticle.

(2) The second test mode(USB)

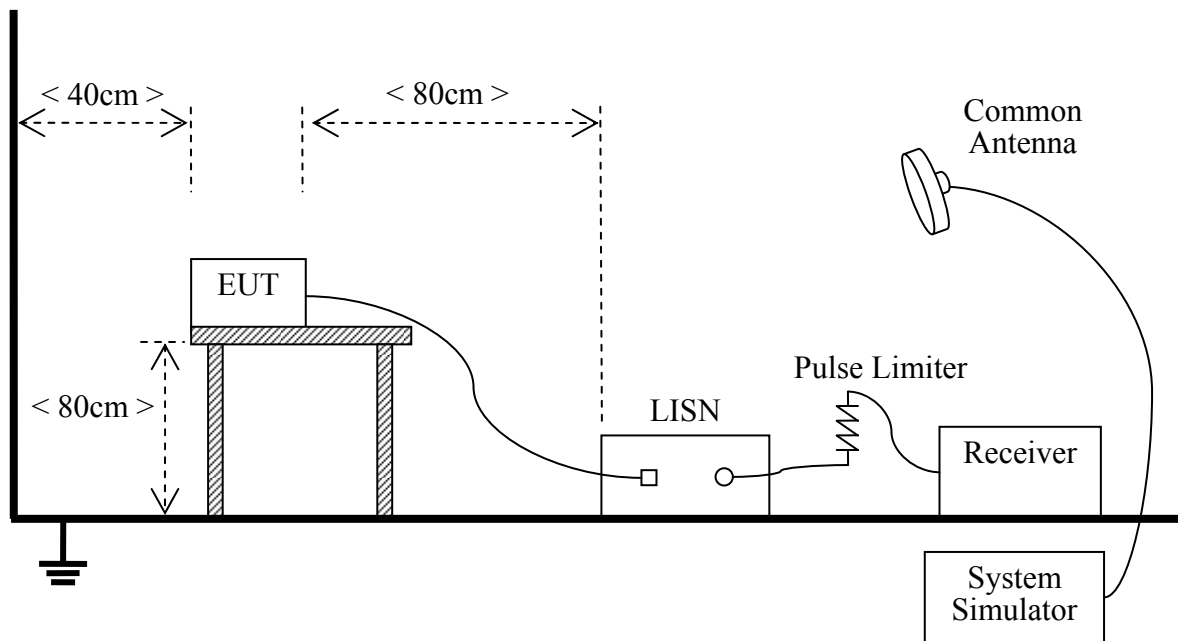
The EUT configuration of the emission tests was TransFlash Card+ PC+ EUT +adapter

In this test mode, the EUT with a TransFlash Card embedded is connected with a PC via a USB cable with a core. During the measurement, the data is transmitting between the PC and the TransFlash Card of the EUT.

## 2.2 Test Setup and Equipments List

### 2.2.1 Conducted Emission

#### A. Test Setup:



The EUT is placed on a 0.8m high insulating table, which stands on the grounded conducting floor, and keeps 0.4m away from the grounded conducting wall. The EUT is connected to the power mains through a LISN which provides 50Ω/50μH of coupling impedance for the measuring instrument. The Common Antenna is used for the call between the EUT and the System Simulator (SS). A Pulse Limiter is used to protect the measuring instrument. The factors of the whole test system are calibrated to correct the reading.

#### B. Equipments List:

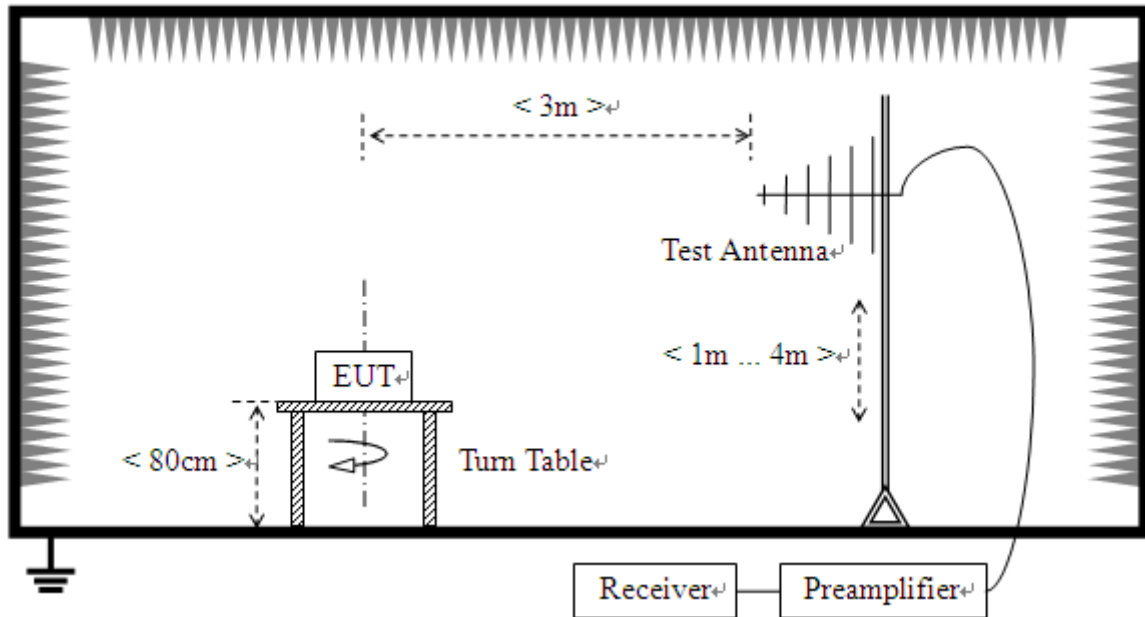
Description	Manufacturer	Model	Serial No.	Calibration Date	Calibration Due. Date
Test Receiver	ROHDE&SCHWARZ	ESCS30	A0304260	2014.06.10	2015.06.09
LISN	Schaffner	NNB41	A0304245	2013.09.11	2014.09.10

### 2.2.2 Radiated Emission

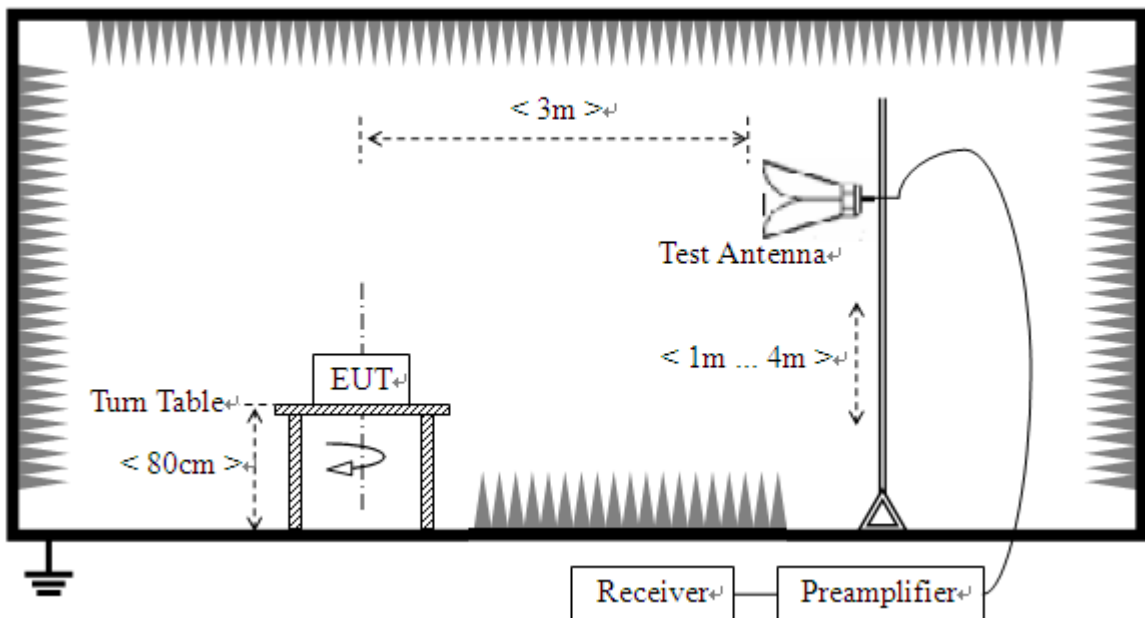
#### A. Test Setup:

- 1) For radiated emissions from 30MHz to 1GHz





2) For radiated emissions above 1GHz



## B. Test Procedure

The test is performed in a 3m Semi-Anechoic Chamber; the antenna factor, cable loss and so on of the site (factors) is calculated to correct the reading. The EUT is placed on a 0.8m high insulating Turn Table, and keeps 3m away from the Test Antenna, which is mounted on a

variable-height antenna master tower.

For the test Antenna:

- 1) In the frequency range above 30MHz, Bi-Log Test Antenna (30MHz to 1GHz) and Horn Test Antenna (above 1GHz) are used. Test Antenna is 3m away from the EUT. Test Antenna height is varied from 1m to 4m above the ground to determine the maximum value of the field strength. The emission levels at both horizontal and vertical polarizations should be tested.

### C. Equipments List:

Description	Manufacturer	Model	Serial No.	Calibration Date	Calibration Due. Date
Test Receiver	ROHDE&SCHWARZ	ESIB7	A0501375	2014.06.10	2015.06.09
Test Receiver	ROHDE&SCHWARZ	ESIB26	A0304218	2014.06.10	2015.06.09
Semi-Anechoic Chamber	Albatross	9m*6m*6m	A0412372	2014.01.04	2015.01.03
Test Antenna - Bi-Log	HP	CBL6111A	A9704202	2014.06.10	2015.06.09
Test Antenna - Horn	ROHDE&SCHWARZ	HF906	A0304225	2014.06.10	2015.06.09
Anechoic Chamber	Albatross	SAC-5MAC 12.8x6.8x6.4 m	A0304210	2014.03.09	2015.03.08
Amplifier 1G~18GHz	ROHDE&SCHWARZ	MITEQ AFS42-00101 800	A0509366	2014.06.10	2015.06.09
amplifier 20M~3GHz	Compliance Direction System	PAP-0203H	A0509377	2014.06.10	2015.06.09
Earphone1	/	G491	/	/	/
Earphone2	senmai	SM-E1010	/	/	/
Display	Panasonic	TH-L24X50C	/	/	/

### 3. 47 CFR PART 15B REQUIREMENTS

#### 3.1 Conducted Emission

##### 3.1.1 Requirement

According to FCC section 15.107, the radio frequency voltage that is conducted back onto the AC power line on any frequency within the band 150kHz to 30MHz shall not exceed the limits in the following table, as measured using a 50 $\mu$ H/50 $\Omega$  line impedance stabilization network (LISN).

Frequency range (MHz)	Conducted Limit (dB $\mu$ V)	
	Quasi-peak	Average
0.15 - 0.50	66 to 56	56 to 46
0.50 - 5	56	46
5 - 30	60	50

NOTE:

- The limit subjects to the Class B digital device.
- The lower limit shall apply at the band edges.
- The limit decreases linearly with the logarithm of the frequency in the range 0.15 - 0.50MHz.

##### 3.1.2 Test Description

See section 2.2.1 of this report.

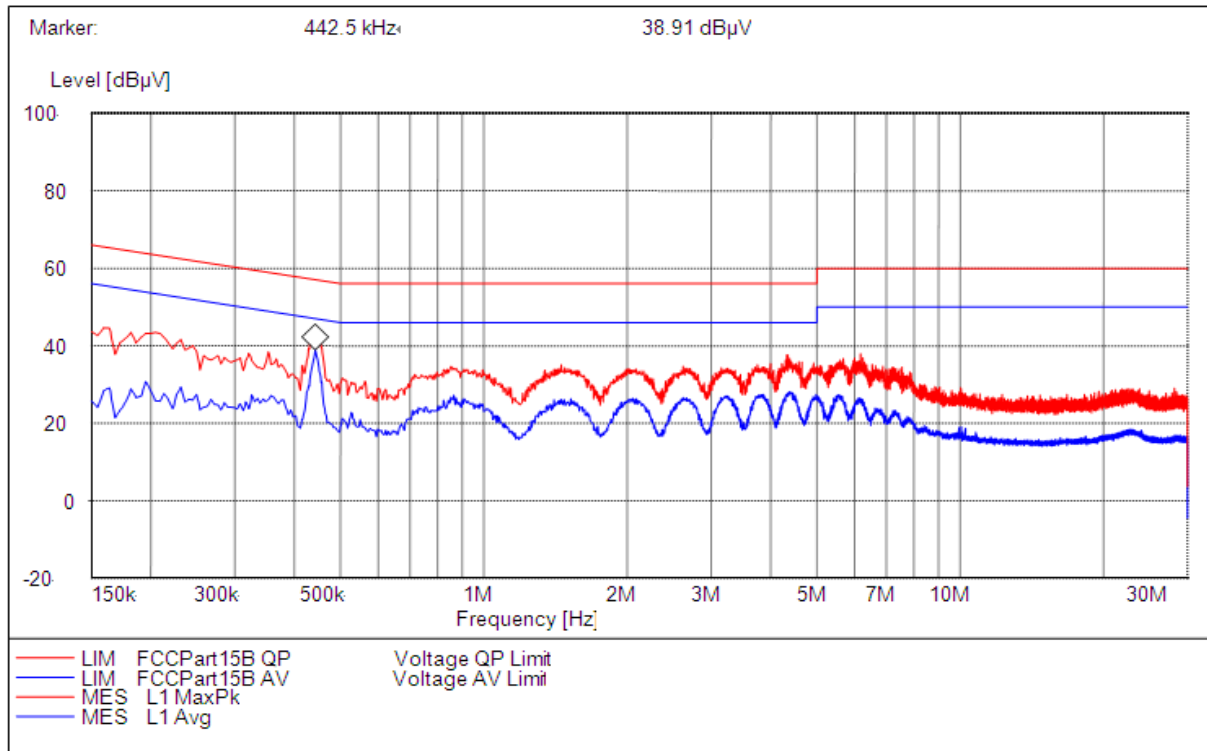
##### 3.1.3 Test Result

The maximum conducted interference is searched using Peak (PK), Quasi-peak (QP) and Average (AV) detectors; the emission levels more than the AV and QP limits, and that have narrow margins from the AV and QP limits will be re-measured with AV and QP detectors. Tests for both L phase and N phase lines of the power mains connected to the EUT are performed. All test modes are considered, refer to recorded points and plots below.

##### 3.1.3.1 Test Mode

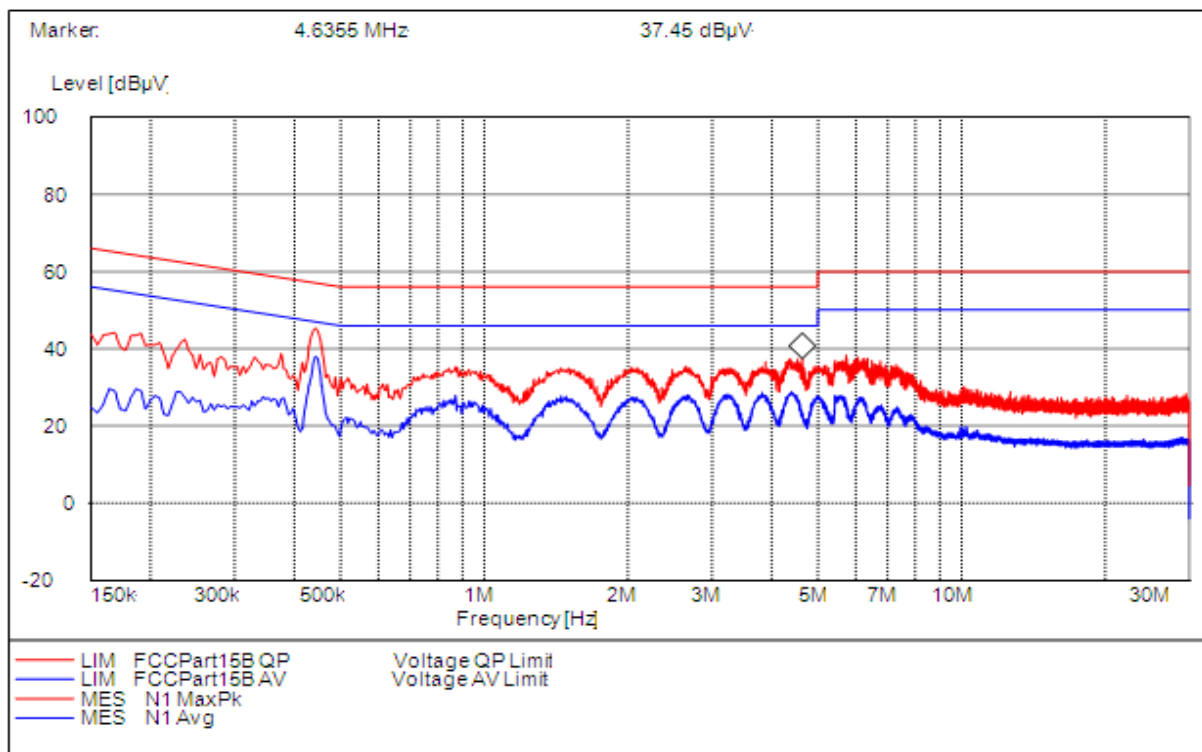
## A. Test Plot and Suspicious Points:

### 1. The first test mode



Conducted Disturbance at Mains Terminals							
L Test Data							
QP				AV			
Frequency (MHz)	Limits (dBμV)	Measurement Value (dBμV)	Margin (dB)	Frequency (MHz)	Limits (dBμV)	Measurement Value (dBμV)	Margin (dB)
0.1612	65.4	42.32	23.08	0.1612	55.4	30.01	25.39
0.4425	57	44.72	12.28	0.4425	47	38.91	30.92
4.3250	56	37.65	18.35	4.3250	46	27.12	18.88
L Test Curve							

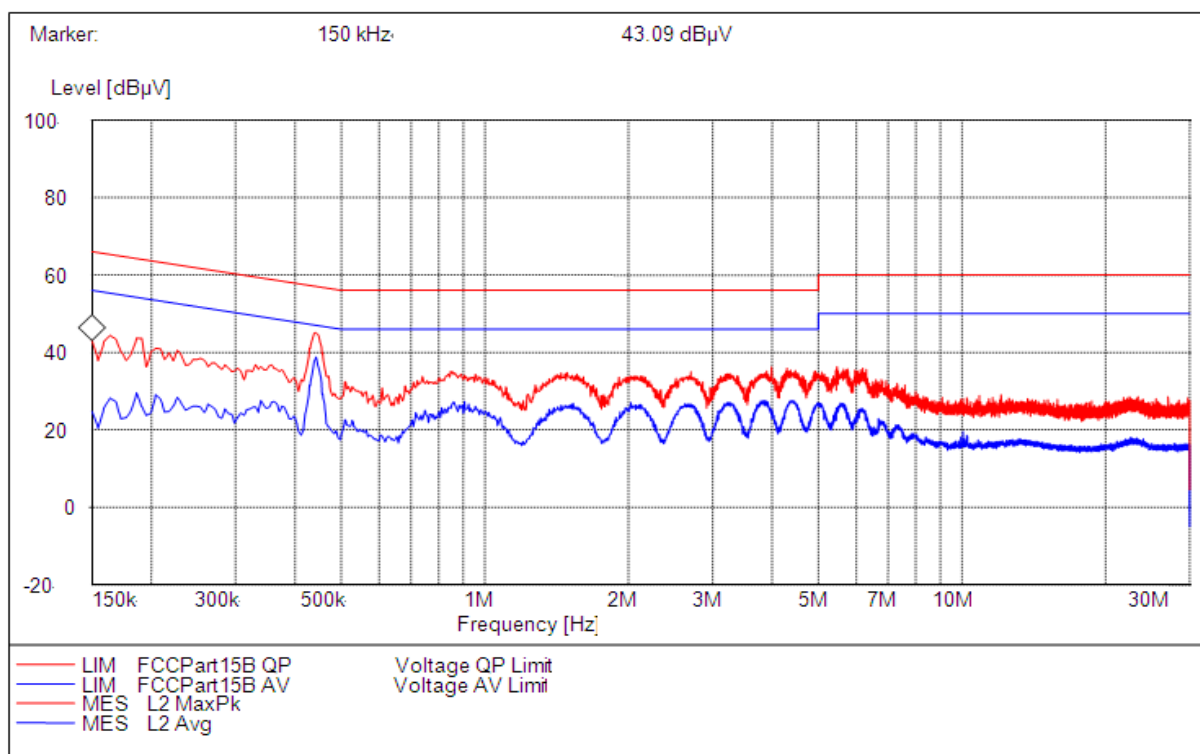
(Plot A: L Phase)



Conducted Disturbance at Mains Terminals							
N Test Data							
QP				AV			
Frequency (MHz)	Limits (dBμV)	Measurement Value (dBμV)	Margin (dB)	Frequency (MHz)	Limits (dBμV)	Measurement Value (dBμV)	Margin (dB)
0.4420	57	45.34	11.66	0.4420	47	38.07	8.93
4.4015	56	37.45	18.55	4.4015	46	28.85	17.15
N Test Curve							

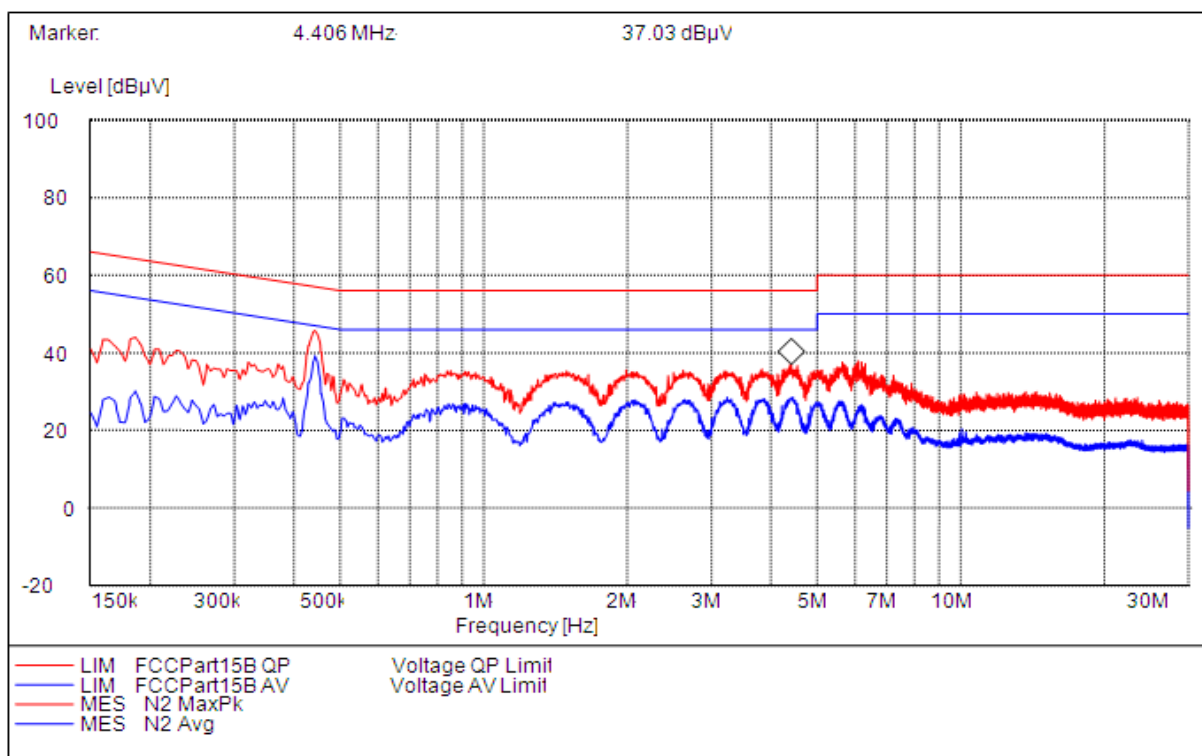
(Plot B: N Phase)

## 2. The second test mode



Conducted Disturbance at Mains Terminals							
L Test Data							
QP				AV			
Frequency (MHz)	Limits (dBμV)	Measurement Value (dBμV)	Margin (dB)	Frequency (MHz)	Limits (dBμV)	Measurement Value (dBμV)	Margin (dB)
0.1500	66	46.48	19.52	0.1500	56	30.06	25.94
0.4500	56.9	42.16	14.74	0.4500	46.9	30.96	15.94
L Test Curve							

(Plot C: L Phase)



Conducted Disturbance at Mains Terminals							
N Test Data							
QP				AV			
Frequency (MHz)	Limits (dBμV)	Measurement Value (dBμV)	Margin (dB)	Frequency (MHz)	Limits (dBμV)	Measurement Value (dBμV)	Margin (dB)
0.4500	56.9	43.26	13.64	0.4500	46.9	37.32	9.58
4.4100	60	37.12	22.88	4.4100	50	29.26	20.74
N Test Curve							

(Plot D: L Phase)

**Test Result: PASS**

## 3.2 Radiated Emission

### 3.2.1 Requirement

According to FCC section 15.109, the field strength of radiated emissions from unintentional radiators at a distance of 3 meters shall not exceed the following values:

Frequency range (MHz)	Field Strength		Field Strength Limitation at 3m Measurement Dist	
	$\mu\text{V/m}$	Dist	( $\mu\text{V/m}$ )	( $\text{dBuV/m}$ )
0.009 - 0.490	$2400/F(\text{kHz})$	300m	$10000 * 2400/F(\text{kHz})$	$20\log 2400/F(\text{kHz}) + 80$
0.490 - 1.705	$2400/F(\text{kHz})$	30m	$100 * 2400/F(\text{kHz})$	$20\log 2400/F(\text{kHz}) + 40$
1.705 - 30.00	30	30m	$100 * 30$	$20\log 30 + 40$
30.0 - 88.0	100	3m	100	$20\log 100$
88.0 - 216.0	150	3m	150	$20\log 150$
216.0 - 960.0	200	3m	200	$20\log 200$
Above 960.0	500	3m	500	$20\log 500$

- As shown in FCC section 15.35(b), for frequencies above 1000MHz, the field strength limits are based on average detector. When average radiated emission measurements are specified in this part, including emission measurements below 1000MHz, there also is a limit on the radio frequency emissions, as measured using instrumentation with a peak detector function, corresponding to 20dB above the maximum permitted average limit for the frequency being investigated unless a different peak emission limit is otherwise specified in the rules.
- Test Antenna is 3m away from the EUT. Test Antenna height is varied from 1m to 4m above the ground to determine the maximum value of the field strength.
- For below 1G :QP detector RBW 120kHz ,VBW 300kHz.
- For Above 1G: PK detector RBW 1MHz,VBW 3MHz for PK value ;PK detector RBW 1MHz, VBW 10Hz for AV value.

Note:

- The tighter limit shall apply at the boundary between two frequency range.
- Limitation expressed in  $\text{dBuV/m}$  is calculated by  $20\log \text{Emission Level}(\mu\text{V/m})$ .
- If measurement is made at 3m distance, then F.S Limitation at 3m distance is adjusted by using the formula of  $Ld1 = Ld2 * (d2/d1)^2$ .

Example:

F.S Limit at 30m distance is  $30\mu\text{V/m}$ , then F.S Limitation at 3m distance is adjusted as

$$Ld1 = L1 = 30\mu\text{V/m} * (10)^2 = 100 * 30\mu\text{V/m}.$$



### 3.2.2 Test Description

See section 2.2.2 of this report.

### 3.2.3 Test Result

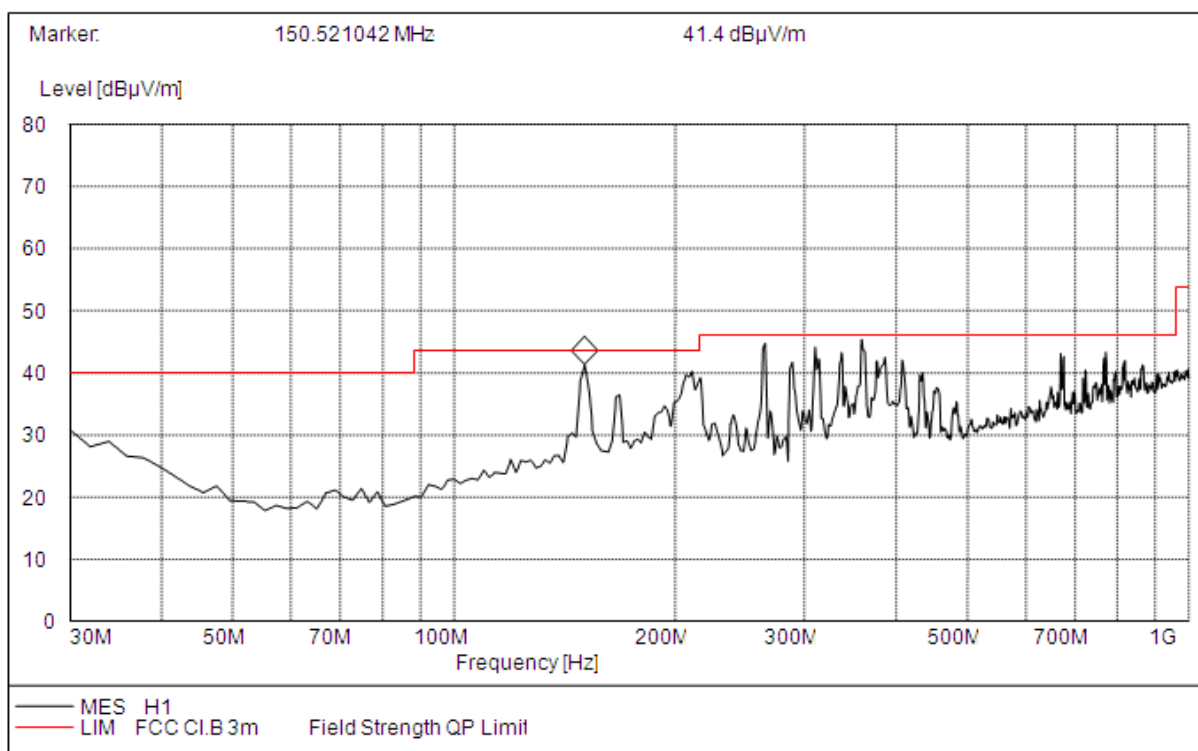
The maximum radiated emission is searched using PK, QP and AV detectors; the emission levels more than the limits, and that have narrow margins from the limits will be re-measured with AV and QP detectors. Both the vertical and the horizontal polarizations of the Test Antenna are considered to perform the tests. All test modes are considered, refer to recorded points and plots below.

The amplitude of spurious emissions which are attenuated more than 20 dB below the permissible value need not be reported.

Note: All radiated emission tests were performed in X, Y, Z axis direction, and only the worst axis test condition was recorded in this test report.

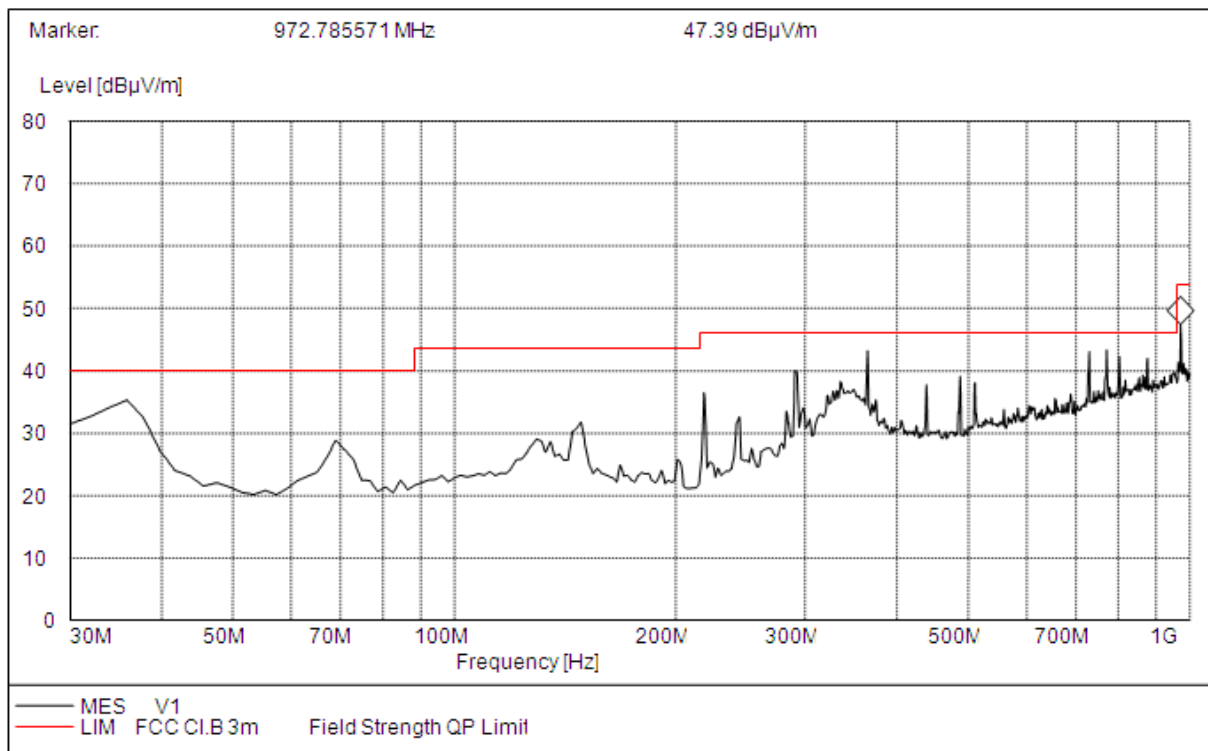
#### A. Test Plots and Suspicious Points:

##### 1. The first test mode



(Plot A: Test Antenna Horizontal 30M - 1G)

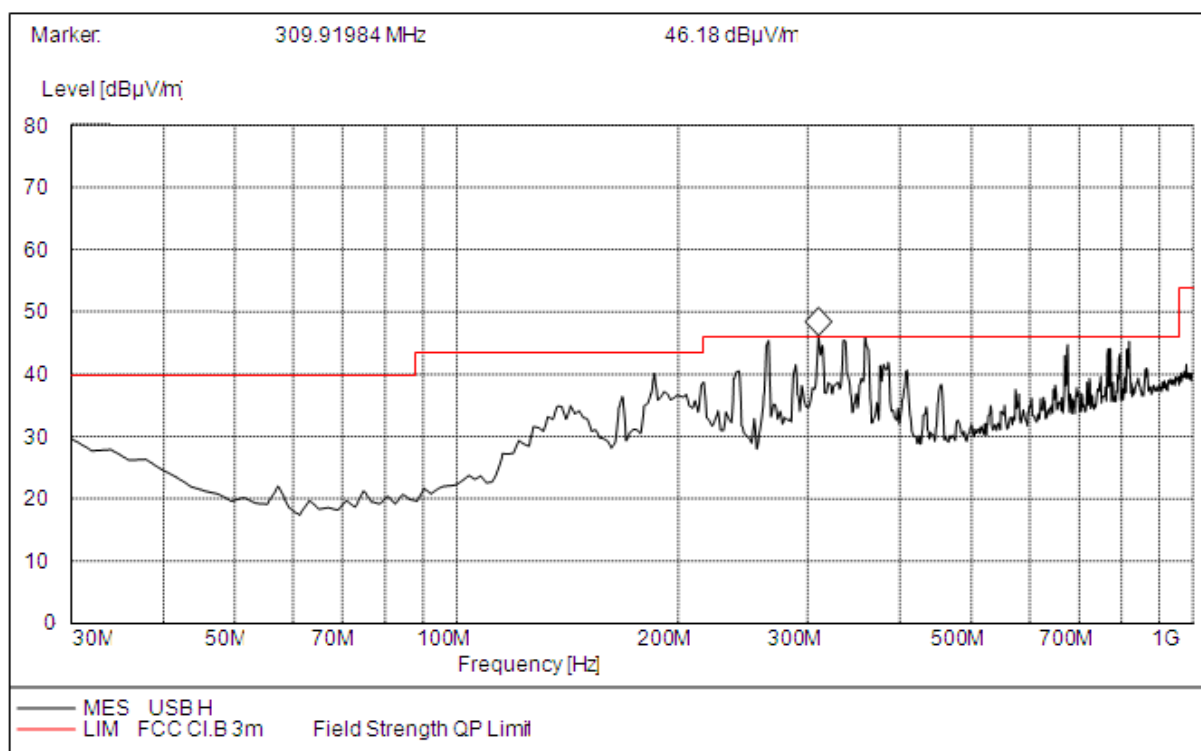
Frequency (MHz)	QuasiPeak (dB $\mu$ V/m)	Bandwidth (kHz)	Antenna height (cm)	Limit (dB $\mu$ V/m)	Margin (dB)	Antenna	Verdict
150.201230	41.30	120.000	100.0	43.50	2.20	Horizontal	Pass
169.418800	44.23	120.000	100.0	46.00	1.77	Horizontal	Pass
359.460000	44.45	120.000	100.0	46.00	1.55	Horizontal	Pass



(Plot B: Test Antenna Vertical 30M - 1G)

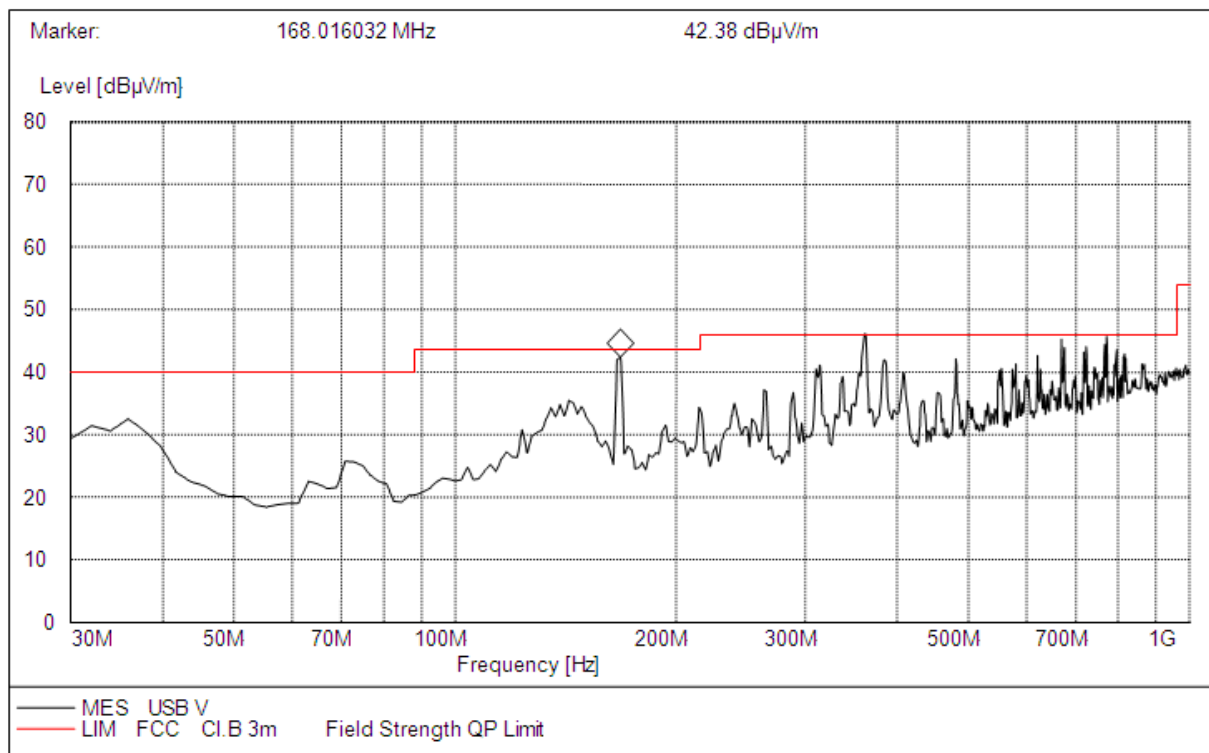
Frequency (MHz)	QuasiPeak (dB $\mu$ V/m)	Bandwidth (kHz)	Antenna height (cm)	Limit (dB $\mu$ V/m)	Margin (dB)	Antenna	Verdict
36.233860	35.43	120.000	100.0	40.00	4.57	Vertical	Pass
362.418800	42.70	120.000	100.0	46.00	3.30	Vertical	Pass
769.939800	43.69	120.000	100.0	46.00	2.31	Vertical	Pass

## 2.The second test mode



(Plot C: Test Antenna Horizontal 30M - 1G)

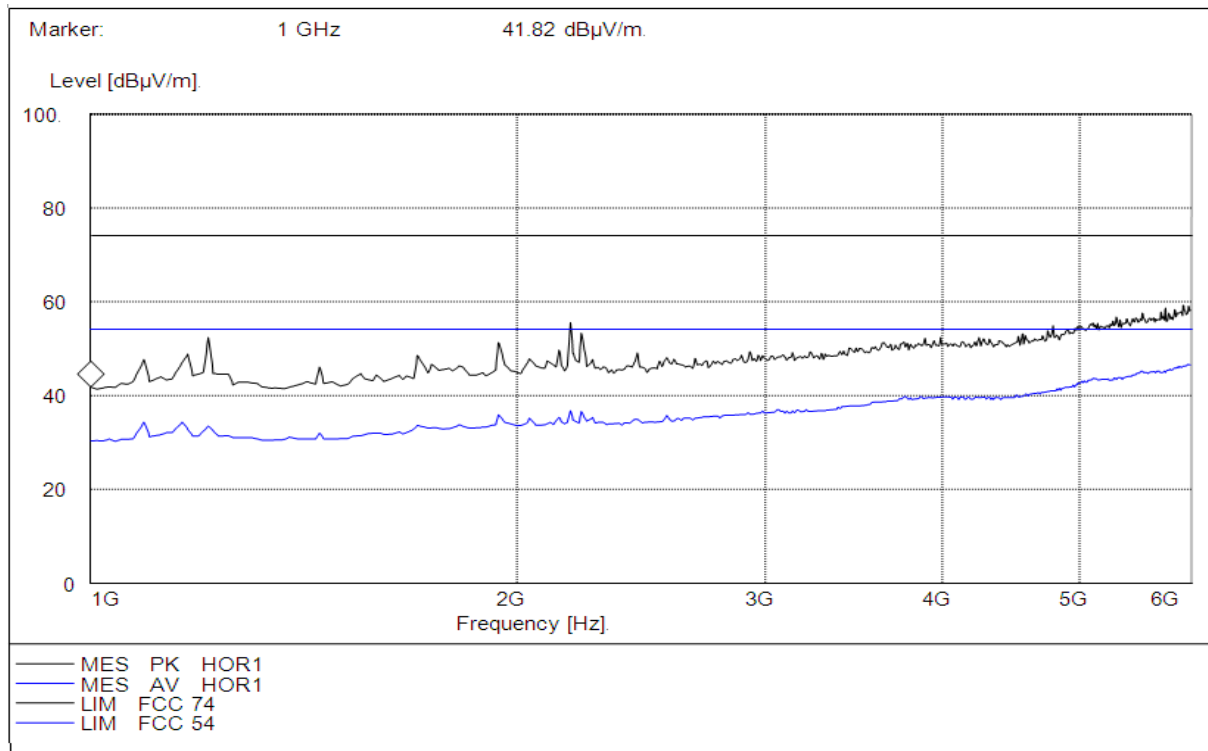
Frequency (MHz)	QuasiPeak (dB μ V/m)	Bandwidth (kHz)	Antenna height (cm)	Limit (dB μ V/m)	Margin (dB)	Antenna	Verdict
181.200000	39.23	120.000	100.0	43.50	4.27	Horizontal	Pass
310.713400	45.54	120.000	100.0	46.00	0.46	Horizontal	Pass
360.460000	45.55	120.000	100.0	46.00	0.45	Horizontal	Pass



(Plot D: Test Antenna Vertical 30M - 1G)

Frequency (MHz)	QuasiPeak (dB $\mu$ V/m)	Bandwidth (kHz)	Antenna height (cm)	Limit (dB $\mu$ V/m)	Margin (dB)	Antenna	Verdict
167.440000	42.00	120.000	100.0	43.50	1.50	Vertical	Pass
358.511000	45.66	120.000	100.0	46.00	0.34	Vertical	Pass
776.939800	45.69	120.000	100.0	46.00	0.31	Vertical	Pass

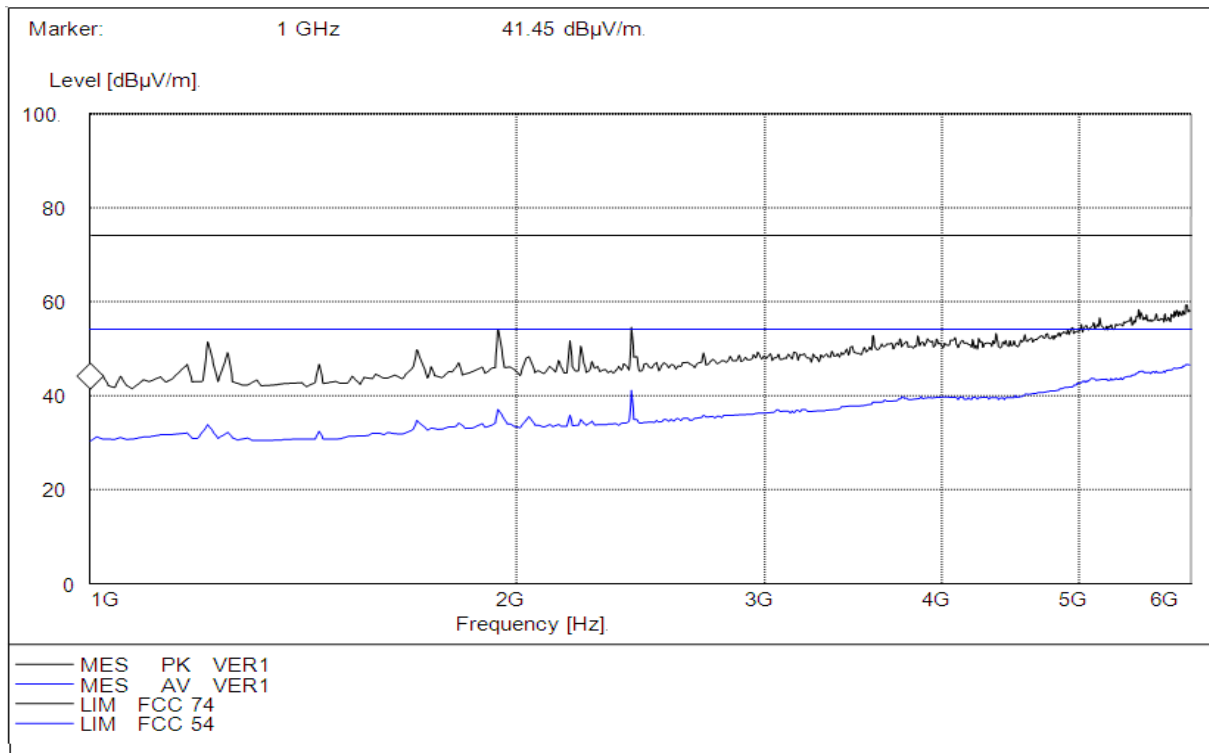
## 1.The first test mode



(Plot E: Test Antenna Horizontal 1G – 6G)

Frequency (MHz)	AV (dB $\mu$ V/m)	Bandwidth (kHz)	Antenna height (cm)	Limit (dB $\mu$ V/m)	Margin (dB)	Antenna	Verdict
1190.18136	31.87	1000.000	100.0	54.00	22.13	Horizontal	Pass
2168.02345	35.20	1000.000	150.0	54.00	18.80	Horizontal	Pass
5976.93799	46.65	1000.000	100.0	54.00	7.35	Horizontal	Pass

Frequency (MHz)	PK (dB $\mu$ V/m)	Bandwidth (kHz)	Antenna height (cm)	Limit (dB $\mu$ V/m)	Margin (dB)	Antenna	Verdict
1190.18136	52.57	1000.000	100.0	74.00	21.43	Horizontal	Pass
2168.02345	55.69	1000.000	150.0	74.00	18.31	Horizontal	Pass
5976.93799	58.60	1000.000	150.0	74.00	15.40	Horizontal	Pass

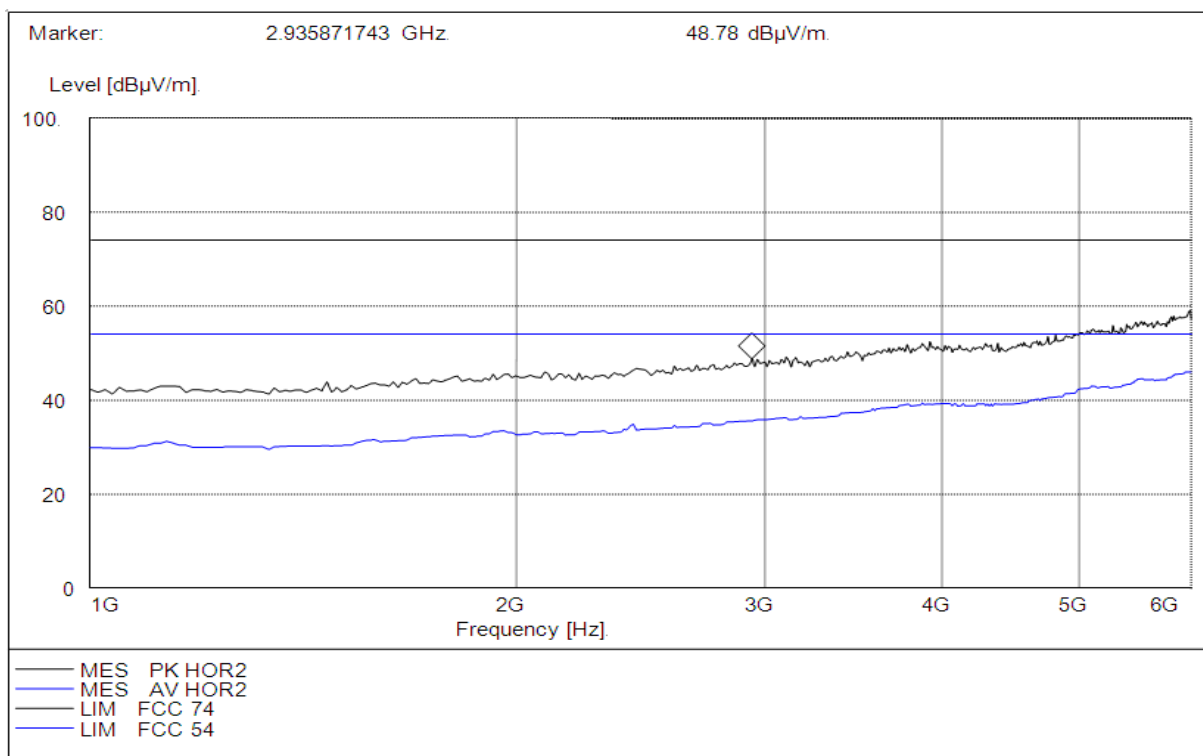


(Plot F: Test Antenna Vertical 1G – 6G)

Frequency (MHz)	AV (dB $\mu$ V/m)	Bandwidth (kHz)	Antenna height (cm)	Limit (dB $\mu$ V/m)	Margin (dB)	Antenna	Verdict
1188.26100	32.20	1000.000	100.0	54.00	21.80	Vertical	Pass
1923.64200	36.15	1000.000	150.0	54.00	17.85	Vertical	Pass
2398.15810	40.42	1000.000	100.0	54.00	13.58	Vertical	Pass

Frequency (MHz)	PK (dB $\mu$ V/m)	Bandwidth (kHz)	Antenna height (cm)	Limit (dB $\mu$ V/m)	Margin (dB)	Antenna	Verdict
1188.26100	50.22	1000.000	100.0	74.00	23.78	Vertical	Pass
1923.64200	53.39	1000.000	150.0	74.00	20.61	Vertical	Pass
2398.15810	53.77	1000.000	150.0	74.00	20.23	Vertical	Pass

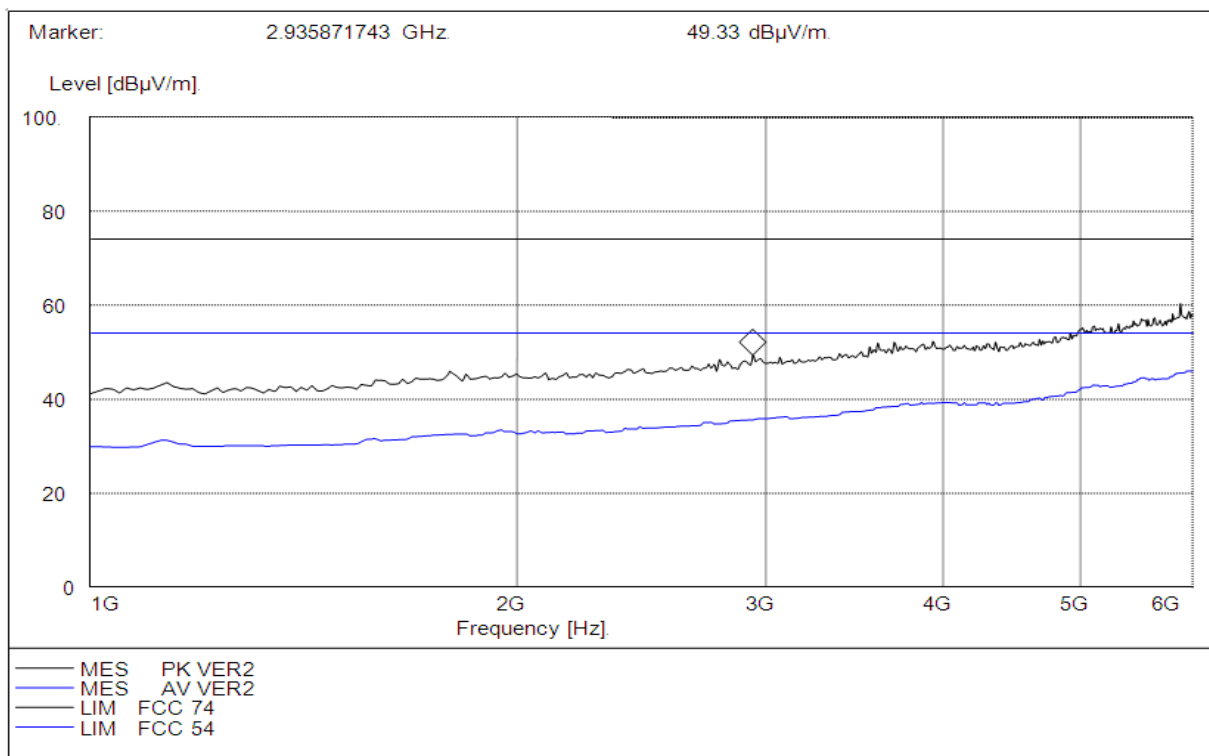
## 2.The second test mode



(Plot G: Test Antenna Horizontal 1G – 6G)

Frequency (MHz)	AV (dB $\mu$ V/m)	Bandwidth (kHz)	Antenna height (cm)	Limit (dB $\mu$ V/m)	Margin (dB)	Antenna	Verdict
1130.26052	31.87	1000.000	100.0	54.00	22.13	Horizontal	Pass
1951.90381	32.70	1000.000	150.0	54.00	21.30	Horizontal	Pass
2873.74749	34.59	1000.000	150.0	54.00	19.41	Horizontal	Pass
3855.71142	35.48	1000.000	100.0	54.00	18.52	Horizontal	Pass
5018.36072	42.35	1000.000	150.0	54.00	11.65	Horizontal	Pass
5569.13827	44.67	1000.000	100.0	54.00	9.33	Horizontal	Pass

Frequency (MHz)	PK (dB $\mu$ V/m)	Bandwidth (kHz)	Antenna height (cm)	Limit (dB $\mu$ V/m)	Margin (dB)	Antenna	Verdict
1130.26052	43.33	1000.000	100.0	74.00	30.67	Horizontal	Pass
1951.90381	46.18	1000.000	150.0	74.00	27.82	Horizontal	Pass
2873.74749	48.28	1000.000	150.0	74.00	25.72	Horizontal	Pass
3855.71142	51.99	1000.000	100.0	74.00	22.01	Horizontal	Pass
5018.36072	55.61	1000.000	150.0	74.00	18.39	Horizontal	Pass
5569.13827	57.49	1000.000	100.0	74.00	16.51	Horizontal	Pass



(Plot H: Test Antenna Vertical 1G – 6G)





Frequency (MHz)	AV (dB $\mu$ V/m)	Bandwidth (kHz)	Antenna height (cm)	Limit (dB $\mu$ V/m)	Margin (dB)	Antenna	Verdict
1140.28056	32.88	1000.000	100.0	54.00	21.12	Vertical	Pass
1751.50300	33.15	1000.000	150.0	54.00	20.85	Vertical	Pass
2843.68737	34.25	1000.000	150.0	54.00	19.75	Vertical	Pass
3925.85171	36.01	1000.000	100.0	54.00	17.99	Vertical	Pass
5038.07615	40.16	1000.000	150.0	54.00	13.84	Vertical	Pass
5939.87976	44.42	1000.000	100.0	54.00	9.58	Vertical	Pass

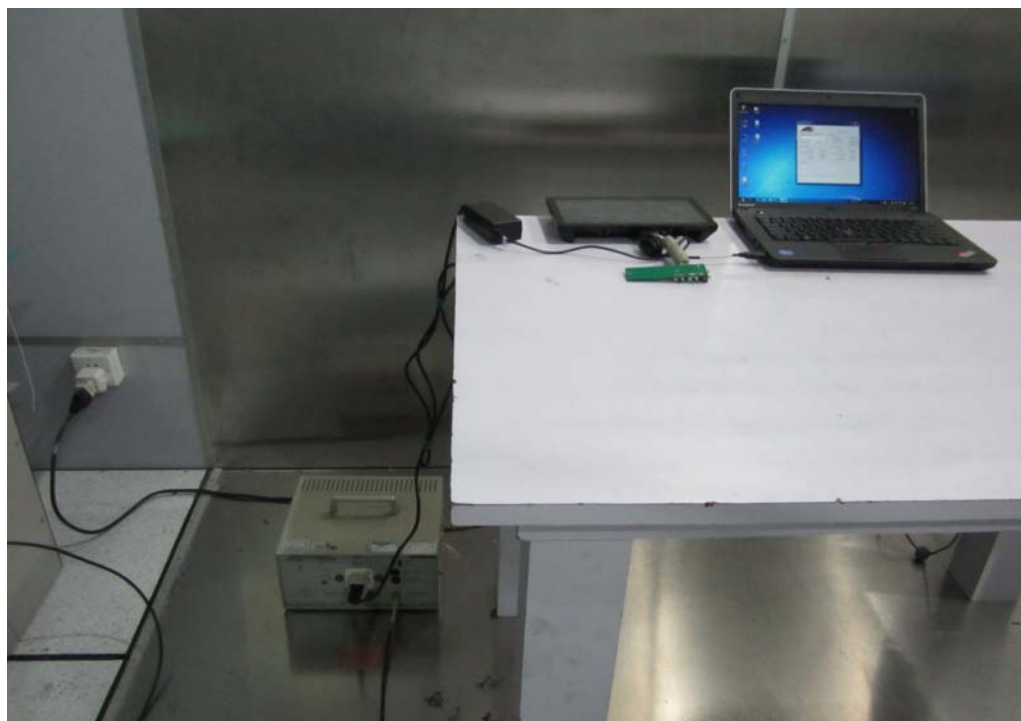
Frequency (MHz)	PK (dB $\mu$ V/m)	Bandwidth (kHz)	Antenna height (cm)	Limit (dB $\mu$ V/m)	Margin (dB)	Antenna	Verdict
1140.28056	43.13	1000.000	100.0	74.00	30.87	Vertical	Pass
1751.50300	45.13	1000.000	150.0	74.00	28.87	Vertical	Pass
2843.68737	48.57	1000.000	150.0	74.00	25.43	Vertical	Pass
3925.85171	52.41	1000.000	100.0	74.00	21.59	Vertical	Pass
5038.07615	54.93	1000.000	150.0	74.00	19.03	Vertical	Pass
5939.87976	57.72	1000.000	100.0	74.00	16.28	Vertical	Pass

**Test Result: PASS**

#### 4. PHOTOGRAPHS OF THE EUT

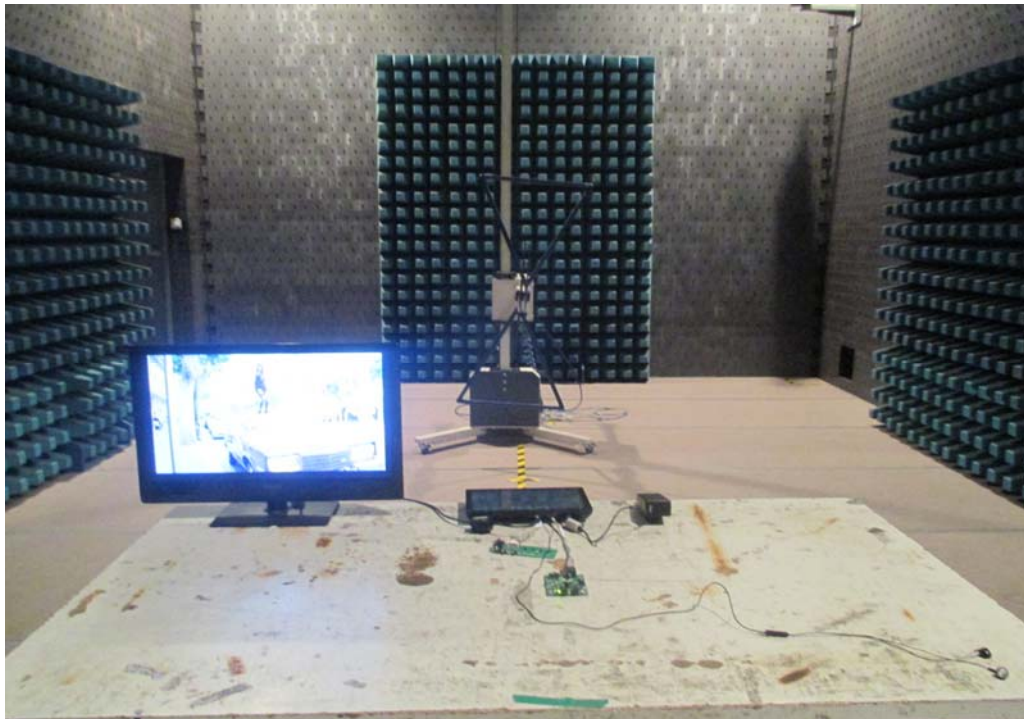


## 5. PHOTOGRAPHS OF THE TEST SET-UP

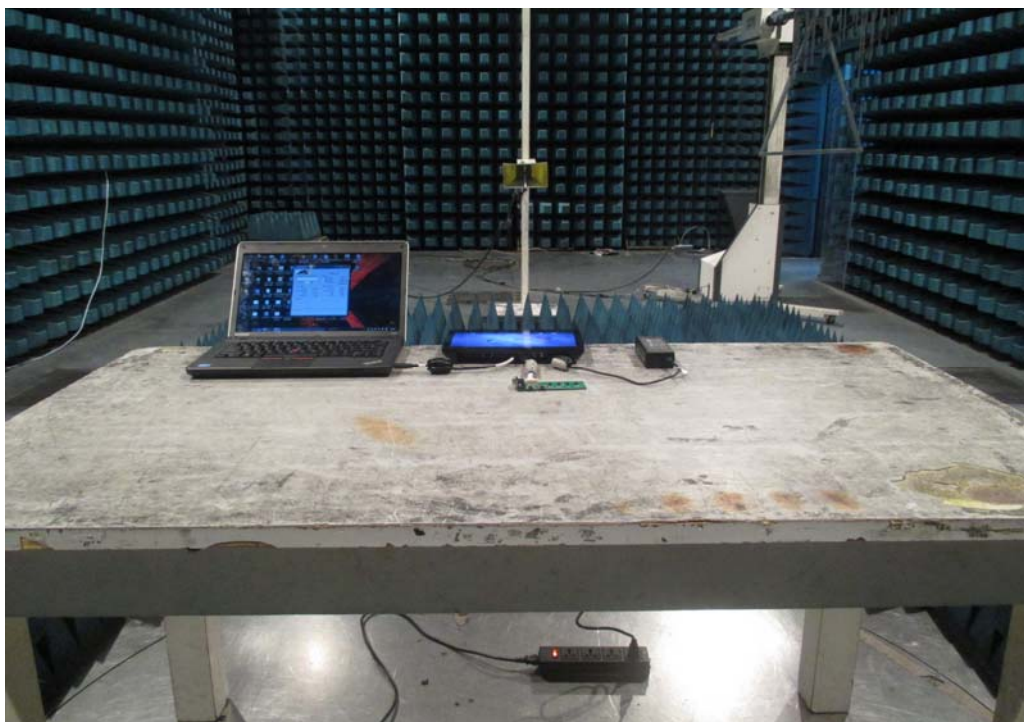


Conducted Emission





Radiated Emission of 30M-1G



Radiated Emission of 1-6G

\*\* END OF REPORT \*\*