



# RF TEST REPORT

**Report No.:** SET2015-03811

**Product Name:** Industrial Handheld Terminal

**FCC ID:** 2AC68-AUTOID9

**Model No. :** AUTOID9      AUTOID9HC

**Applicant:** Jiangsu SEUIC Technology Co.,Ltd

**Applicant Address:** No 23, Wenzhu Road, Yuhuatai District, Nanjing, Jiangsu, China

**Issued by:** CCIC-SET

**Lab Location:** Electronic Testing Building, Shahe Road, Xili, Nanshan District,  
Shenzhen, 518055, P. R. China

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

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## Test Report

**Product Name** ..... : Industrial Handheld Terminal

**Brand Name** ..... : AUTOID

**Applicant** ..... : Jiangsu SEUIC Technology Co.,Ltd

**Applicant Address** ..... : No 23, Wenzhu Road, Yuhuatai District, Nanjing, Jiangsu,  
China

**Manufacturer** ..... : Jiangsu SEUIC Technology CO.,Ltd

**Manufacturer Address**..... : Nanjing High-tech Development Zone software center  
406#

**Test Standards** ..... : 47 CFR Part 15 Subpart C: Radio Frequency Devices  
ANSI C63.10:2009: American National Standard for  
Testing Unlicensed Wireless Devices

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

**Tested by** ..... :  2015.03.27  
Haigang He, Test Engineer

**Reviewed by**..... :  2015.03.27  
Zhu Qi, Senior Engineer

**Approved by**..... :  2015.03.27  
Wu Li'an, Manager



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Change History		
Issue	Date	Reason for change
1.0	Mar 27,2015	First edition



# 1. GENERAL INFORMATION

## 1.1 EUT Description

EUT Type ..... : Industrial Handheld Terminal  
Serial No. .... : P16E709D4784010  
IMEI No ..... : 352482033215041  
Hardware Version..... : D500\_Main  
Software Version ..... : 3.4.0  
Frequency Range..... : 13.553MHz – 13.567MHz  
Carrier Frequencies..... : 13.56MHz(CH.1)  
Modulation Type ..... : ASK  
Antenna Type ..... : Loop antenna  
Antenna Gain ..... : -1 dBi

Note 1: The EUT is Industrial Handheld Terminal, it operating at 13.56MHz.

Note 2: For a more detailed description, please refer to Specification or User’s Manual supplied by the applicant and/or manufacturer.

Note 3: The EUT has two models: AUTOID 9 and AUTOID9HC.They have the same size, internal structure, PCB, material and function. Only one is different for key board. One button is seventeen (which is model AUTOID 9), the other button is twenty two (which is model AUTOID9HC).So all the test is in the model AUTOID9HC and add different test of AUTOID 9.



## 1.2 Support Equipment

N/A

## 1.3 Test Standards and Results

The objective of the report is to perform testing according to 47 CFR Part 15 Subpart C for the EUT FCC ID Certification:

No.	Identity	Document Title
1	47 CFR Part 15 Subpart C 2014	Radio Frequency Devices
2	ANSI C63.10 2009	American National Standard for Testing Unlicensed Wireless Devices

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

FCC Rules	Description of Test	Result
§15.203	Antenna Requirement	Compliant
§15.205	Restricted Band of operation	Compliant
§15.207	Conducted Emission	Compliant
§15.209	Radiated Emission Test	Compliant
§15.225(a) (b) (c) §15.31(f)	Field Strength of Radiated Emissions	Compliant
§15.225(d) §15.209, §15.31(f)	Out of Band Emission	Compliant
§15.225(e)	Frequency Stability	Compliant
§15.215(c)	20 dB Bandwidth Testing	Compliant

The tests of Conducted Emission and Radiated Emission were performed according to the method of measurements prescribed in ANSI C63.10 2009.



## 1.4 Facilities and Accreditations

### 1.4.1 Facilities

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

CCIC 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 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, valid time is until October 28, 2017.

#### **IC-Registration No.: 11185A-1**

CCIC Southern Electronic Product Testing (Shenzhen) Co., Ltd. EMC Laboratory has been registered by Certification and Engineering Bureau of Industry Canada for the performance of radiated measurements with Registration No. 11185A-1 on July. 15, 2013, valid time is until July. 15, 2016.

### 1.4.2 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



## 2. 47 CFR PART 15C REQUIREMENTS

### 2.1 Antenna requirement

#### 2.1.1 Applicable Standard

According to FCC 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section.

#### 2.1.2 Antenna Information

**Antenna Category:** Integral antenna

**Antenna General Information:**

No.	EUT Model	Ant. Cat.	Gain(dBi)
1	Industrial Handheld Terminal	loop antenna	-1

#### 2.1.3 Result: comply

The EUT has a permanently antenna. which complies with the Part 15.203. Please refer to the EUT internal photos.



## 2.2 Field Strength of Radiated Emissions

### 2.2.1 Requirement

As per FCC Part 15.225

(a) The field strength of any emissions within the band 13.553-13.567 MHz shall not exceed 15,848 microvolts/meter at 30 meters.

(b) Within the bands 13.410-13.553 MHz and 13.567-13.710 MHz, the field strength of any emissions shall not exceed 334 microvolts/meter at 30 meters.

(c) Within the bands 13.110-13.410 MHz and 13.710-14.010 MHz the field strength of any emissions shall not exceed 106 microvolts/meter at 30 meters.

### 2.2.2 Test Description

The measured Field Strength of Radiated Emissions was calculated by the reading of the spectrum analyzer and calibration.

#### A. Test Setup:

The radiated emission tests were performed in the 3-meter chamber A test site, using the setup accordance with the ANSI C63.10:2009. The specification used was the FCC Part Subpart C limits.

#### B. Equipments List:

Description	Manufacturer	Model	Serial No.	Cal.Date	Cal.Due Date
EMI Test Receiver	R&S	ESCI	100591	2014.06.11	2015.06.10
Passive Loop Antenna	R&S	HFH2-Z6	0837.1866.54	2014.06.11	2015.06.10
Amplifier	HP	8447D AMJPLIFIER	D095562	2014.06.11	2015.06.10
Full-Anechoic Chamber	Albatross	SAC-10MAC 19.6*11.8*8.55m	P23228	2014.06.11	2015.06.10

### 2.2.3 Test Result

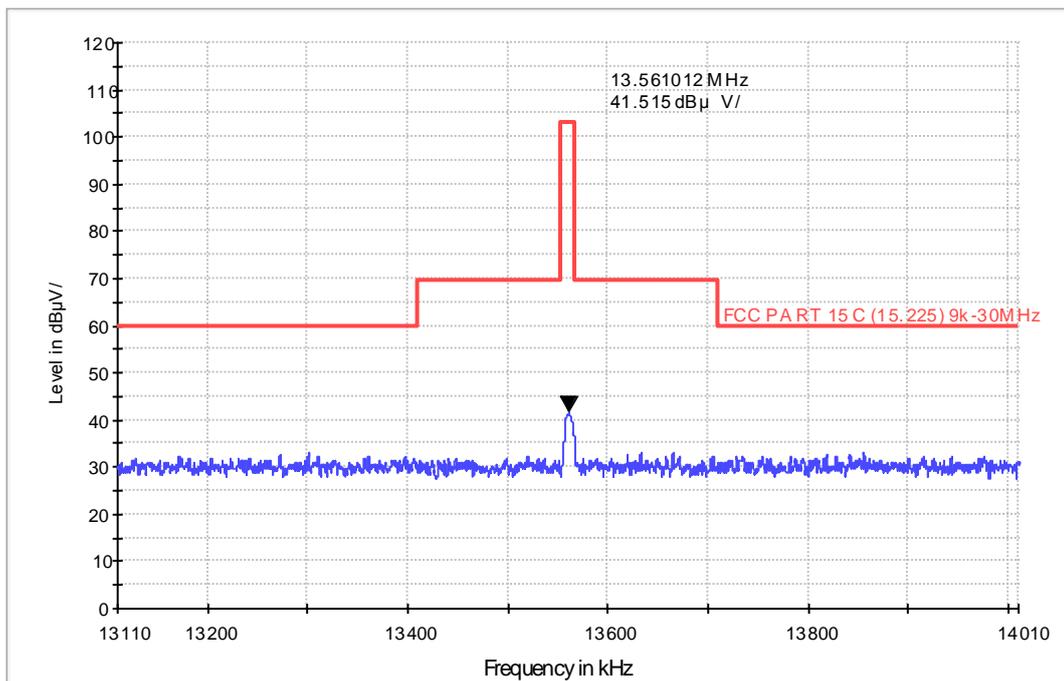


**A. Test Verdict:**

Test Mode: Continuous Transmitting

Indicated			Detector PK/QP/AV	FCC Part 15.225		
Frequency Range (MHz)	Mark point (MHz)	Maximum Reading (dB $\mu$ V/m) @10m		Limit (dB $\mu$ V/m) @30m	Limit (dB $\mu$ V/m) @10m	Result
13.110-13.410	13.260	30.034	QP	40.51	59.59	Pass
13.410-13.553	13.552	30.267	QP	50.47	69.55	Pass
13.553-13.567	13.561	41.125	QP	84.00	103.08	Pass
13.567-13.710	13.578	30.183	QP	50.47	69.55	Pass
13.710-14.010	13.905	30.468	QP	40.51	59.59	Pass

**B. Test Plots:**



## 2.3 20 dB Bandwidth Testing

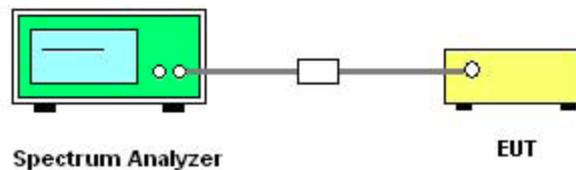
### 2.3.1 Requirement

Per 15.215 (c) Intentional radiators operating under the alternative provisions to the general emission limits, as contained in §§ 15.217 through 15.257 and in Subpart E of this part, must be designed to ensure that the 20 dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equipment operates, is contained within the frequency band designated in the rule section under which the equipment is operated. The requirement to contain the designated bandwidth of the emission within the specified frequency band includes the effects from frequency sweeping, frequency hopping and other modulation techniques that may be employed as well as the frequency stability of the transmitter over expected variations in temperature and supply voltage. If a frequency stability is not specified in the regulations, it is recommended that the fundamental emission be kept within at least the central 80% of the permitted band in order to minimize the possibility of out-of-band operation.

Intentional radiators must be designed to ensure that the 20 dB bandwidth of the emissions in the specific band (13.553-13.567MHz).

### 2.3.2 Test Description

#### A. Test Set:



The EUT which is powered by the Battery is coupled to the Spectrum Analyzer; the RF load attached to the EUT antenna terminal is 50Ohm; the path loss and Atten as the factor is calibrated to correct the reading.

Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.

Position the EUT without connection to measurement instrument. Turn on the EUT and connect it to measurement instrument. Then set it to any one convenient frequency within its operating range. Set a reference level on the measuring instrument equal to the highest peak value.

Measure the frequency difference of two frequencies that were attenuated 20 dB from the reference level. Record the frequency difference as the emission bandwidth.

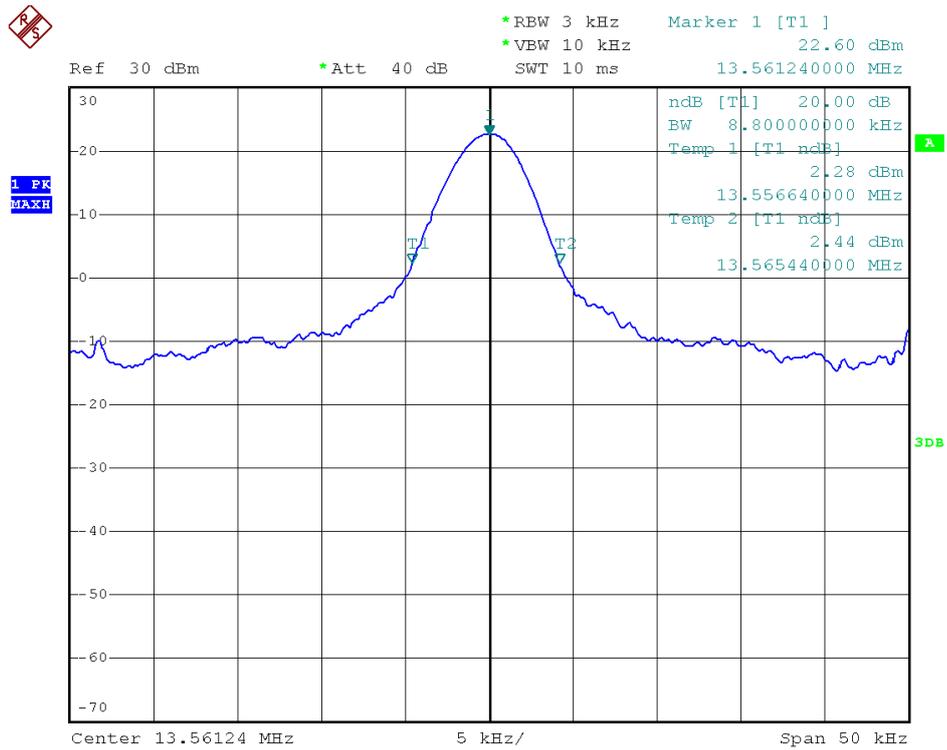


**A. Equipments List:**

Description	Manufacturer	Model	Serial No.	Cal. Date	Cal.Due Date
Spectrum Analyzer	R&S	FSP40	1164.4391.40	2014.06.11	2015.06.10

**2.3.3 Test Result**

**20 dB Occupied Bandwidth**





## 2.4 Out of Band Emission

### 2.4.1 Requirement

As per FCC Part 15.225(d) §15.31(f) The field strength of any emissions appearing outside of the 13.110–14.010 MHz band shall not exceed the general radiated emission limits in §15.209.

### 2.4.2 Test Description

The out of band emission tests were performed in the 10-meter chamber A test site, using the setup accordance with the ANSI C63.10:2009. The specification used was the FCC Part Subpart C limits.

#### A. Equipments List:

Description	Manufacturer	Model	Serial No.	Cal. Date	Cal.Due Date
EMI Test Receiver	R&S	ESCI	100591	2014.06.11	2015.06.10
Passive Loop Antenna	R&S	HFH2-Z6	0837.1866.54	2014.06.11	2015.06.10
Amplifier	HP	8447D AMJPLIFIER	D095562	2014.06.11	2015.06.10
Full-Anechoic Chamber	Albatross	SAC-10MAC 19.6*11.8*8.55m	P23228	2014.06.11	2015.06.10

### 2.4.3 Test Result

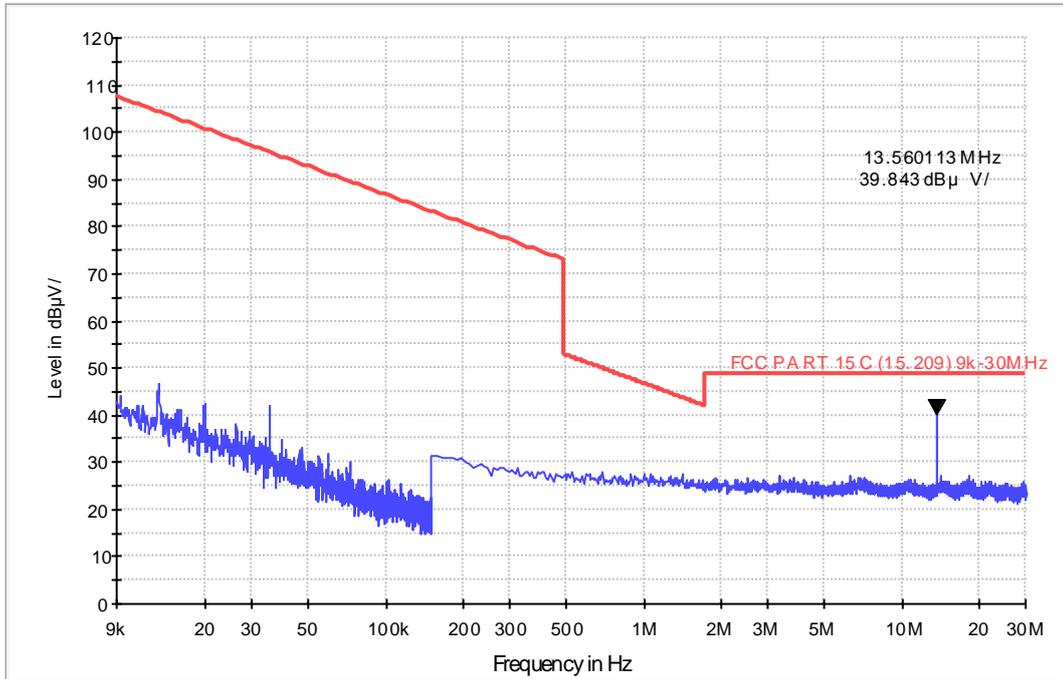
#### A. Test Verdict:

Test Mode: Continuous Transmitting

Indicated		Detector PK/QP/AV	FCC Part 15.225	
Frequency Range (MHz)	Maximum Reading (dB μV/m) @10m		Limit (dB μV/m) @10m	Result
0.014	46.67	PK	103.76	Pass
0.036	42.53	PK	95.56	Pass
17.892	25.68	PK	48.62	Pass
21.820	25.79	PK	48.62	Pass



**B. Test Plots:**



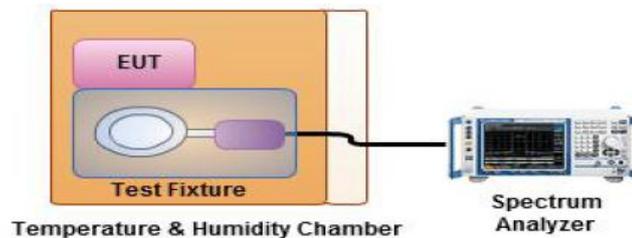
## 2.5 Frequency Stability

### 2.5.1 Requirement

According to FCC section 15.225(e), the frequency tolerance of the carrier signal shall be maintained within  $\pm 0.01\%$  of the operating frequency over a temperature variation of  $-20$  degrees to  $+50$  degrees C at normal supply voltage, and for a variation in the primary supply voltage from 85% to 115% of the rated supply voltage at a temperature of 20 degrees C. For battery operated equipment, the equipment tests shall be performed using a new battery

### 2.5.2 Test Description

#### A. Test Set:



The EUT is powered by AC 120V/60Hz, which is coupled to the Spectrum Analyzer; the RF load attached to the EUT antenna terminal is 50Ohm; the path loss as the factor is calibrated to correct the reading.

#### B. Test Procedure

Frequency Stability vs. Temperature: The EUT is powered by Battery, then antenna was connected to a Spectrum Analyzer. The EUT was placed inside the temperature chamber.

After the temperature stabilized for approximately 20 minutes, the frequency output was recorded from the Spectrum Analyzer.

Frequency Stability vs. Voltage: An external variable DC power supply Source. The voltage was set to 115% of the nominal value and was then decreased until the transmitter light no longer illuminated; i.e., the end point. The output frequency was recorded for each voltage.

#### C. Equipments List:

Description	Manufacturer	Model	Serial No.	Cal.Date	Cal.Due Date
Spectrum Analyzer	R&S	FSP40	1164.4391.40	2014.06.11	2015.06.10
Constant Temperature humidity chamber	Dongguan gaoda instrument CO.LTD	GD-7005-100	A130301254	2014.06.11	2015.06.10



### 2.5.3 Test Result

Test Mode: Continuous Transmitting

Test Environment		Frequency Reading (MHz)	Frequency Error	Part 15.225 Limit	Result
Adapter Power Supply	Temperature (°C)				
DC 3.8V	-20	13.56019	0.0014%	±0.01%	Pass
	-10	13.56024	0.0018%	±0.01%	Pass
	0	13.56027	0.0020%	±0.01%	Pass
	10	13.56026	0.0019%	±0.01%	Pass
	20	13.56028	0.0021%	±0.01%	Pass
	30	13.56029	0.0021%	±0.01%	Pass
	40	13.56028	0.0021%	±0.01%	Pass
	50	13.56028	0.0021%	±0.01%	Pass
Max. = DC 4.4V	20	13.56029	0.0021%	±0.01%	Pass
Min. = DC 3.0V	20	13.56027	0.0020%	±0.01%	Pass

## 2.6 Conducted Emission

### 2.6.1 Requirement

According to FCC section 15.207, for an intentional radiator that is designed to be connected to the public utility (AC) power line, 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).

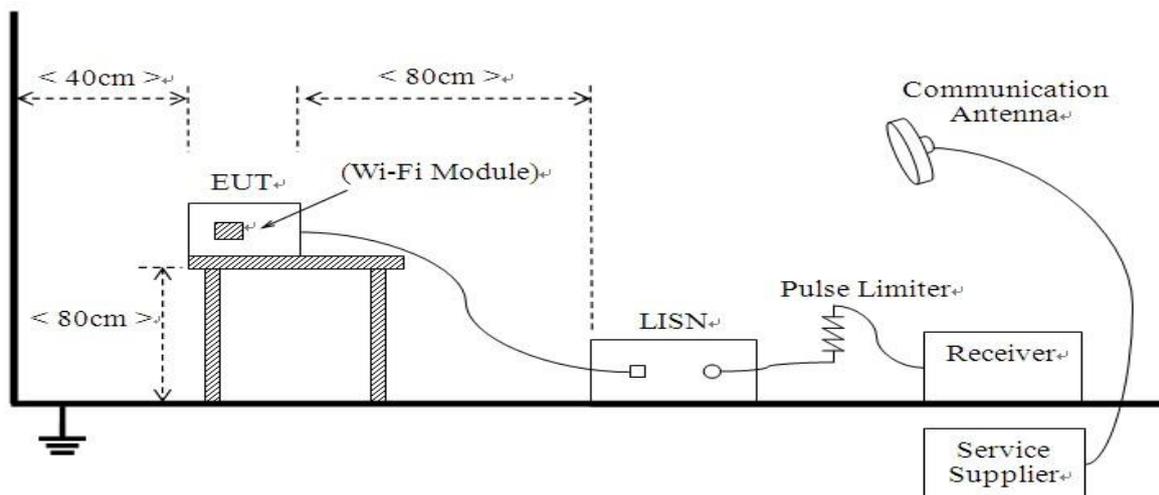
Frequency range (MHz)	Conducted Limit (dB $\mu$ V)	
	Quai-peak	Average
0.15 - 0.50	66 to 56	56 to 46
0.50 - 5	56	46
5 - 30	60	50

NOTE:

- 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.

### 2.6.2 Test Description

#### A. Test Setup:



The Table-top EUT was placed upon a non-metallic table 0.8m above the horizontal metal reference ground plane. EUT was connected to LISN and LISN was connected to reference Ground Plane. EUT was 80cm from LISN. The set-up and test methods were according to ANSI C63.10:2009:2009

The EUT is powered by Battery. The factors of the site are calibrated to correct the reading. During the measurement.



**B. Equipments List:**

Description	Manufacturer	Model	Serial No.	Cal. Date	Cal. Due Date
Test Receiver	ROHDE&SCHWARZ	ESCS30	A0304260	2014.06.11	2015.06.10
LISN	ROHDE&SCHWARZ	ESH2-Z5	A0304221	2014.06.11	2015.06.10

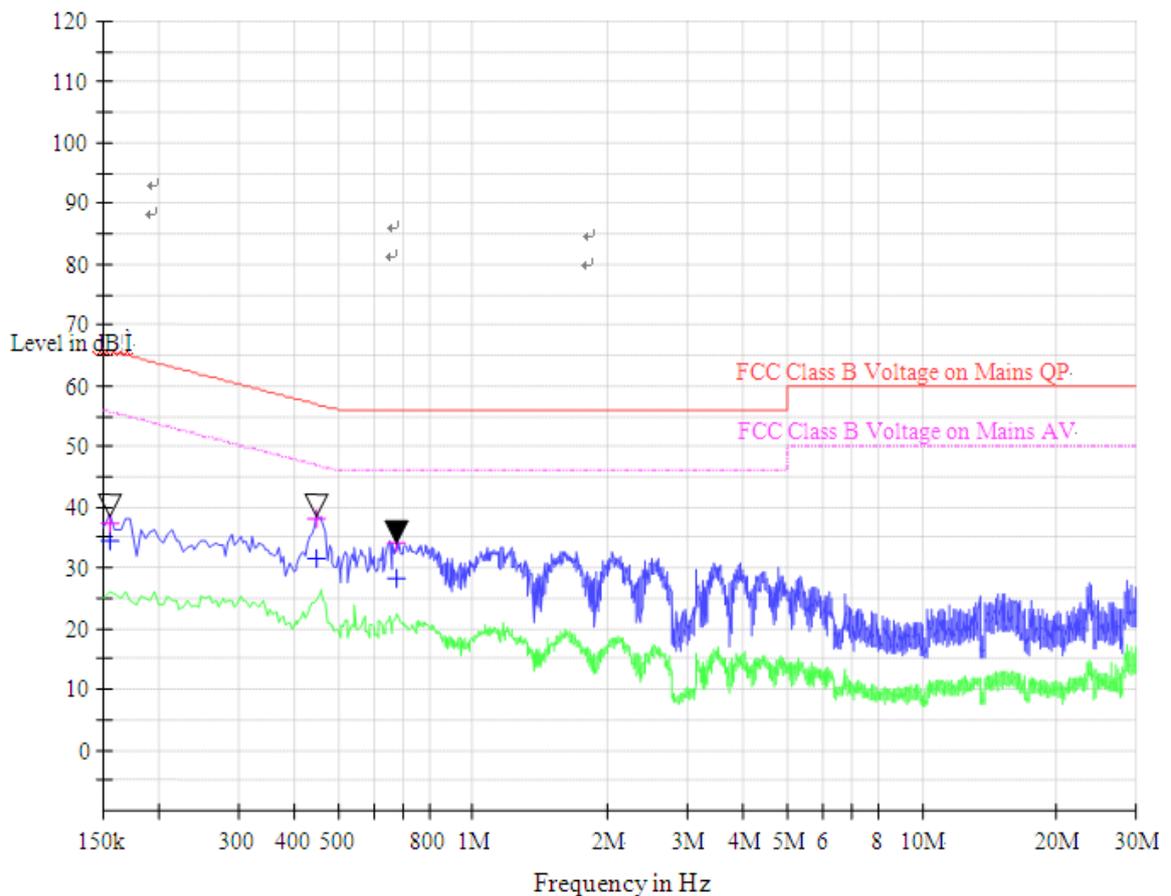
**2.6.3 Test Result**

The maximum conducted interference is searched using Peak (PK), if 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. Refer to recorded points and plots below.

**A. Test setup:**

The EUT configuration of the emission tests is EUT.

**B. Test data and Plots:**

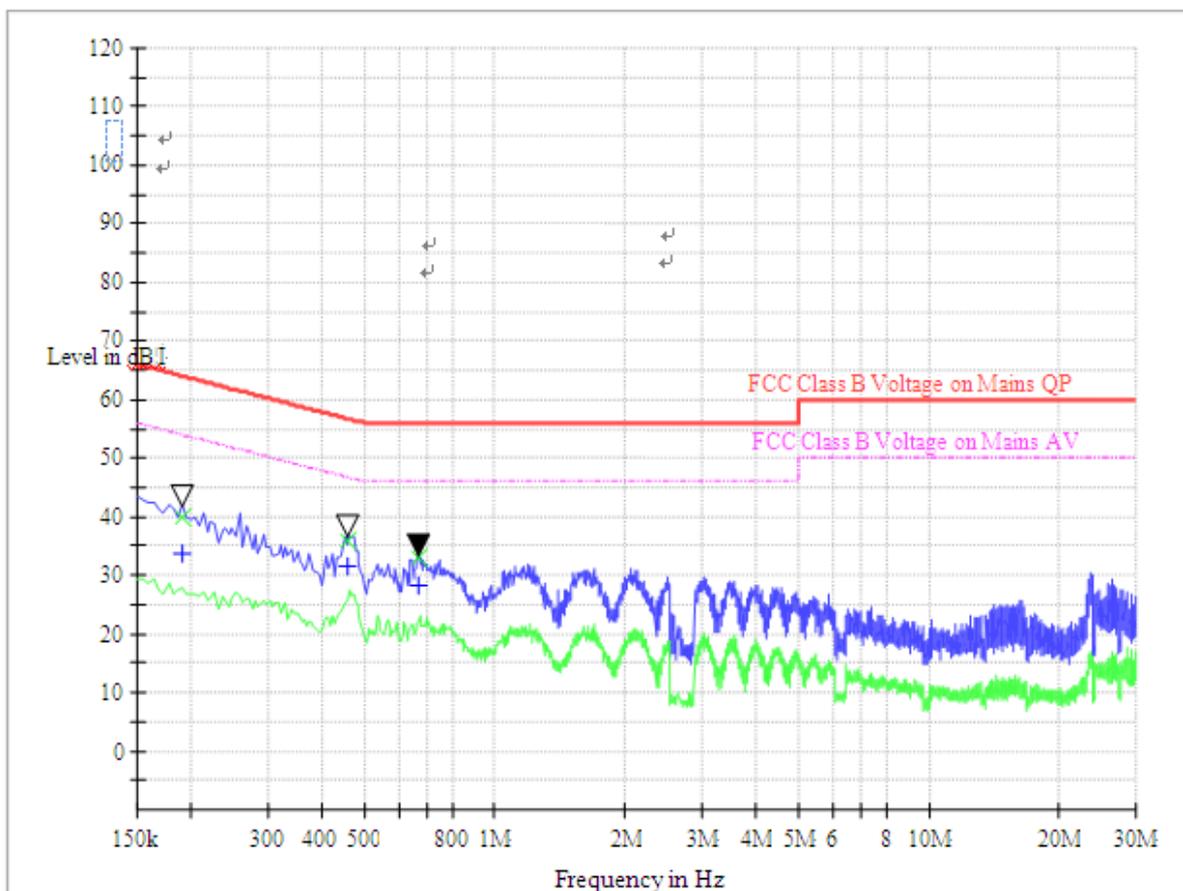


**(Plot A: L Phase)**



Conducted Disturbance at Mains Terminals					
L Test Data					
QP			AV		
Frequency (MHz)	Limits (dB $\mu$ V)	Measurement Value (dB $\mu$ V)	Frequency (MHz)	Limits (dB $\mu$ V)	Measurement Value (dB $\mu$ V)
0.154500	65.8	29.56	0.154500	55.8	19.86
0.447000	56.9	20.22	0.447000	46.9	18.26
0.676500	56.0	24.01	0.676500	46.0	17.56

(Plot B: N Phase)





<b>Conducted Disturbance at Mains Terminals</b>					
<b>N Test Data</b>					
<b>QP</b>			<b>AV</b>		
<b>Frequency (MHz)</b>	<b>Limits (dB<math>\mu</math>V)</b>	<b>Measurement Value (dB<math>\mu</math>V)</b>	<b>Frequency (MHz)</b>	<b>Limits (dB<math>\mu</math>V)</b>	<b>Measurement Value (dB<math>\mu</math>V)</b>
0.190500	64.0	38.62	0.190500	54.0	32.10
0.460500	56.7	34.13	0.460500	46.7	30.26
0.667500	56.0	32.33	0.667500	46.0	27.63

**Test Result: PASS**



## 2.7 Radiated Emission

### 2.7.1 Requirement

According to FCC section 15.225(e), radiated emission outside the frequency band attenuation below the general limits specified in FCC section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in FCC section 15.205(a), must also comply with the radiated emission limits specified in FCC section 15.209(a).

According to FCC section 15.209 (a), except as provided elsewhere in this subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

Frequency (MHz)	Field Strength ( $\mu\text{V}/\text{m}$ )	Field Strength ( $\text{dB } \mu\text{V}/\text{m}$ )	Measurement Distance (m)
0.009 - 0.490	$2400/\text{F}(\text{kHz})$	$20\log(2400/\text{F}(\text{kHz}))+80$	300
0.490 - 1.705	$24000/\text{F}(\text{kHz})$	$20\log(24000/\text{F}(\text{kHz}))+40$	30
1.705 - 30.0	30	$20\log(30)+40$	30
30 - 88	100	40.0	3
88 - 216	150	43.5	3
216 - 960	200	46.0	3
Above 960	500	54.0	3

Note:

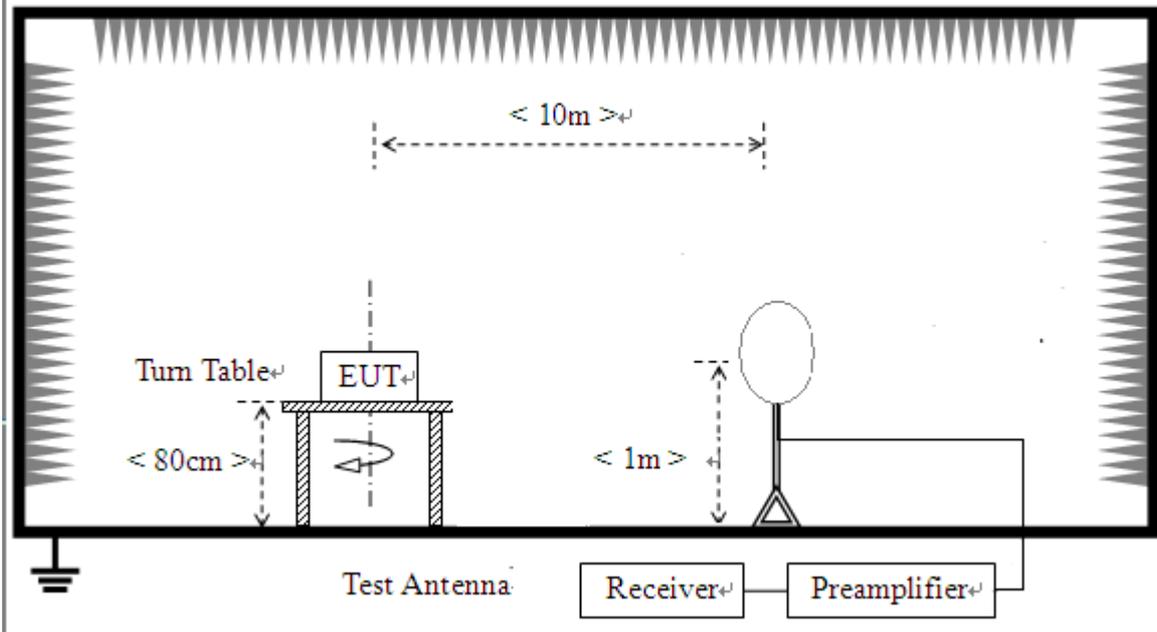
The radiated emission tests were performed in the 10-meter chamber test site, using the setup accordance with the ANSI C63.10:2009. The specification used was the FCC Part Subpart C limits.

The EUT was connected to a 120VAC/60Hz power source.

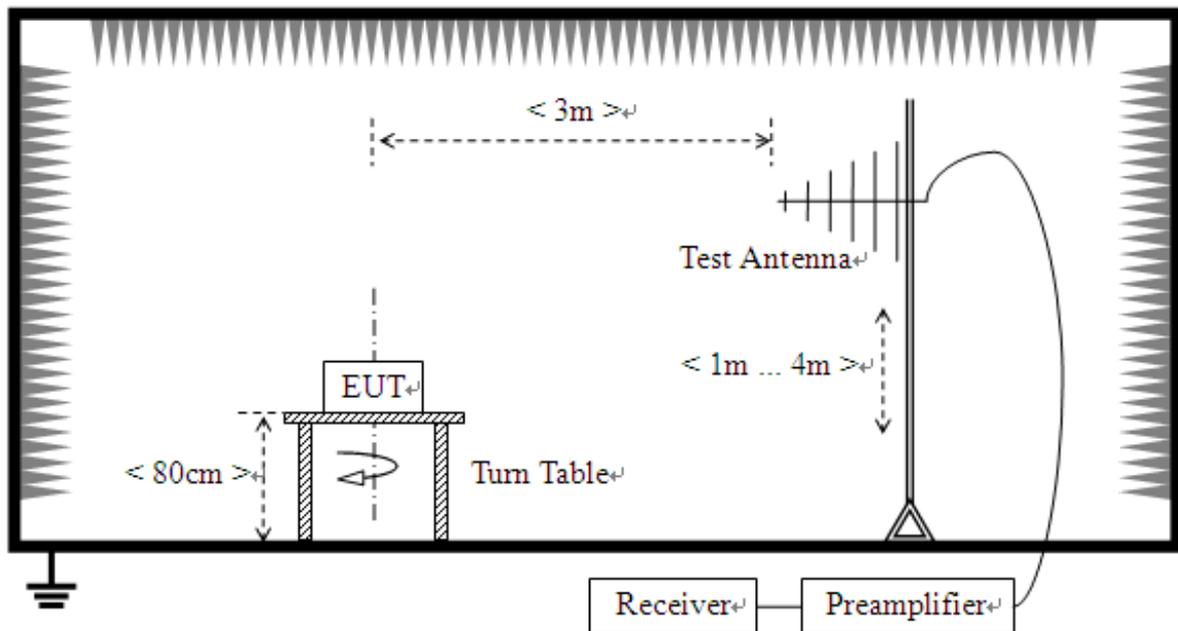
### 2.7.2 Test Description

#### A. Test Setup:

(1) For radiated emissions from 9kHz to 30MHz



(2) For radiated emissions from 30MHz to 1GHz



The test site semi-anechoic chamber has met the requirement of NSA tolerance 4 dB according to the standards: ANSI C63.10:2009 (2009). The EUT was set-up on insulator 80cm above the Ground Plane. The set-up and test methods were according to ANSI C63.10:2009.



For the Test Antenna:

(a) In the frequency range of 9kHz to 30MHz, magnetic field is measured with Loop Test Antenna. The Test Antenna is positioned with its plane vertical at 1m distance from the EUT. The center of the Loop Test Antenna is 1m above the ground. During the measurement the Loop Test Antenna rotates about its vertical axis for maximum response at each azimuth about the EUT.

(b) In the frequency range above 30MHz, Bi-Log Test Antenna (30MHz to 1GHz). 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.

### B. Equipments List:

Description	Manufacturer	Model	Serial No.	Cal.Date	Cal.Due Date
Receiver	R&S	ESIB26	A0304218	2014.06.08	2015.06.07
Full-Anechoic Chamber	Albatross	12.8m*6.8m* 6.4m	A0412372	2014.06.08	2015.06.07
Test Antenna - Bi-Log	Schwarzbeck	VULB 9163	9163-274	2014.06.10	2015.06.09
Passive Loop Antenna	R&S	HFH2-Z6	0837.1866.54	2014.06.11	2015.06.10
Amplifier	HP	8447D AMJPLIFIER	D095562	2014.06.11	2015.06.10

### 2.7.3 Test Result

According to ANSI C63.10:2009 selection 4.2.2, because of peak detection will yield amplitudes equal to or greater than amplitudes measured with the quasi-peak (or average) detector, the measurement data from a spectrum analyzer peak detector will represent the worst-case results, if the peak measured value complies with the quasi-peak limit, it is unnecessary to perform an quasi-peak measurement.

The measurement results are obtained as below:

$$E \text{ [dB}\mu \text{ V/m]} = U_R + A_T + A_{\text{Factor}} \text{ [dB]}; A_T = L_{\text{Cable loss}} \text{ [dB]} - G_{\text{preamp}} \text{ [dB]}$$

$A_T$ : Total correction Factor except Antenna

$U_R$ : Receiver Reading

$G_{\text{preamp}}$ : Pre-amplifier Gain

$A_{\text{Factor}}$ : Antenna Factor at 3m

$L_{\text{Cable loss}}$ : Cable loss

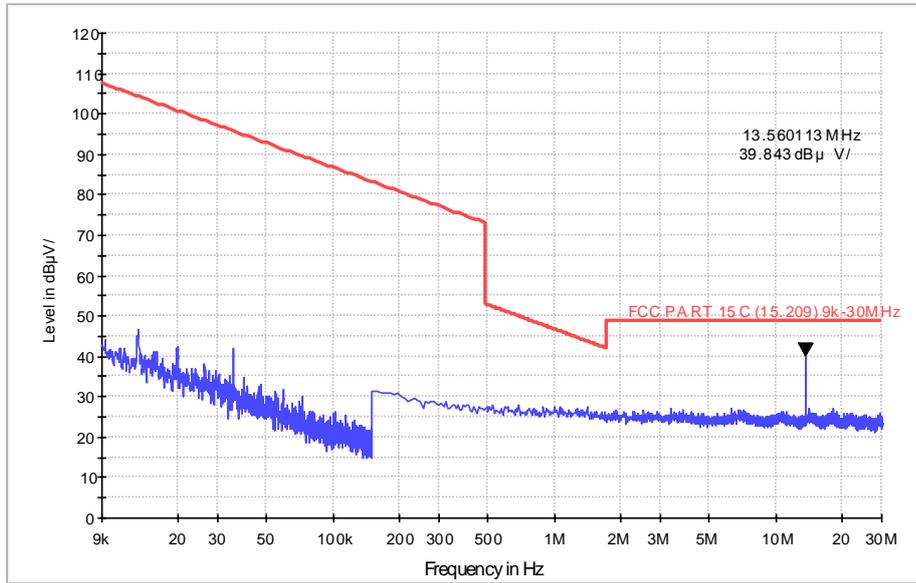
During the test, the total correction Factor  $A_T$  and  $A_{\text{Factor}}$  were built in test software.

The radiated frequency ranges from 9 kHz to 1 GHz.

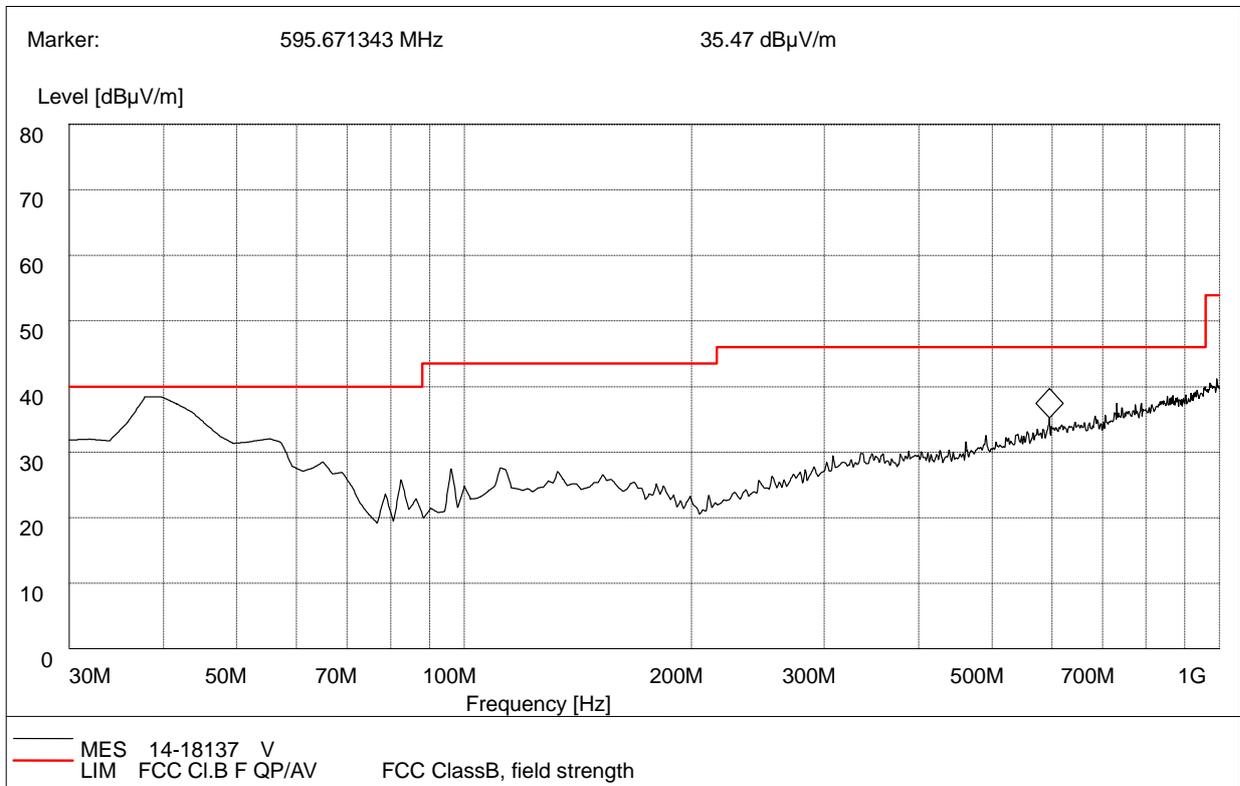


Test plots for the whole measurement frequency range:

**For 9 kHz to 30 MHz**



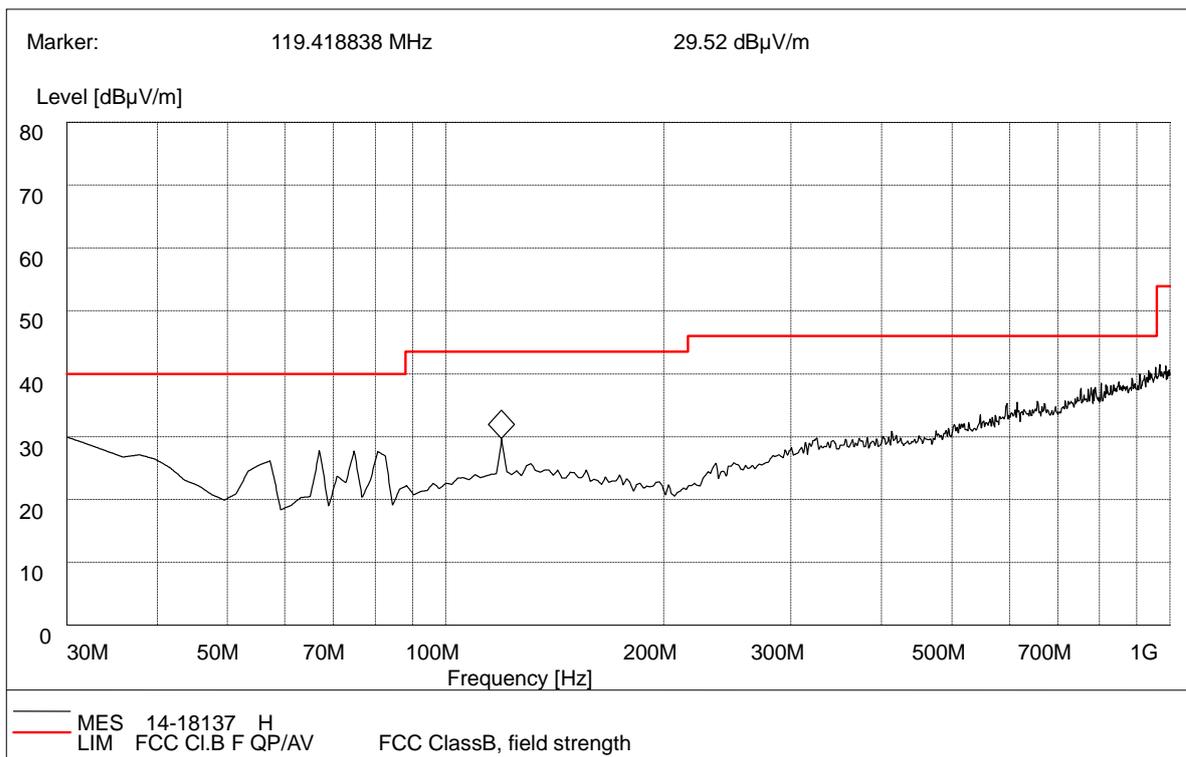
**For 30MHz to 1000 MHz**



(Plot A: 30MHz to 1GHz, Antenna Vertical)



Frequency (MHz)	QuasiPeak (dBμ V/m)	Bandwidth (kHz)	Antenna height (cm)	Limit (dBμ V/m)	Antenna	Verdict
37.5900	37.50	120.000	100.0	40.00	Vertical	Pass
58.2769	31.04	120.000	100.0	40.00	Vertical	Pass
96.0922	28.49	120.000	100.0	43.50	Vertical	Pass
113.6203	27.14	120.000	100.0	43.50	Vertical	Pass
595.6713	34.82	120.000	100.0	46.00	Vertical	Pass
915.4689	37.59	120.000	100.0	46.00	Vertical	Pass



(Plot B: 30MHz to 1GHz, Antenna Horizontal)

Frequency (MHz)	QuasiPeak (dBμ V/m)	Bandwidth (kHz)	Antenna height (cm)	Limit (dBμ V/m)	Antenna	Verdict
30.2000	29.47	120.000	100.0	40.00	Horizontal	Pass
57.3694	27.12	120.000	100.0	40.00	Horizontal	Pass
119.4188	28.76	120.000	100.0	43.50	Horizontal	Pass
315.2348	29.57	120.000	100.0	46.00	Horizontal	Pass
599.9678	33.19	120.000	100.0	46.00	Horizontal	Pass
915.4689	36.27	120.000	100.0	46.00	Horizontal	Pass

\*\* END OF REPORT \*\*