

**EN 55022: 2010**  
**EN 61000-3-2: 2006+A2: 2009**  
**EN 61000-3-3: 2008**  
**Measurement and Test Report**  
**For**

**Compex Systems Pte Ltd**

**135 Joo Seng Road, #08-01 PM Industrial Building Singapore**

<b>Report Concerns:</b> Original Report	<b>Equipment Type:</b> WIRELESS ACCESS POINT
<b>Model:</b>	<u>WPE72</u>
<b>Report No.:</b>	<u>STR11118274E-1</u>
<b>Test Date:</b>	<u>2011-11-24 to 2011-12-15</u>
<b>Issue Date:</b>	<u>2011-12-20</u>
<b>Tested By:</b>	<u>Seven Song / Engineer</u> <i>Seven Song</i>
<b>Reviewed By:</b>	<u>Lahm Peng / EMC Manager</u> <i>Lahm peng</i>
<b>Approved &amp; Authorized By:</b>	<u>Jandy so / PSQ Manager</u> <i>Jandyso</i>
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Note: This test report is limited to the above client company and the product model only. It may not be duplicated without prior permitted by SEM.Test Compliance Service Co., Ltd.

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## 1. GENERAL INFORMATION

### 1.1 Product Description for Equipment Under Test (EUT)

#### Client Information

Applicant: Compex Systems Pte Ltd  
Address of applicant: 135 Joo Seng Road, #08-01 PM Industrial Building  
Singapore

Manufacturer: Compex Systems Pte Ltd  
Address of manufacturer: 135 Joo Seng Road, #08-01 PM Industrial Building  
Singapore

#### General Description of E.U.T

Items	Description
EUT Description:	WIRELESS ACCESS POINT
Trade Name:	COMPEX
Model No.:	WPE72
Rated Voltage:	DC 24V by power adapter
Power Adapter:	Model 1: ILP50-2400500U Model 2: SAW-2400500 Model 3: YHSW-240050U
For more information refer to the circuit diagram form and the user's manual.	

*The test data is gathered from a production sample, provided by the manufacturer.*

### 1.2 Test Standards

The following report is prepared on behalf of the Compex Systems Pte Ltd in accordance with EN55022, Information technology equipment - Radio disturbance characteristics - Limits and methods of measurement, And EN61000-3-2: 2006+A2: 2009, Electromagnetic compatibility (EMC) -- Part 3-2: Limits - Limits for harmonic current emissions (equipment input current up to and including 16 A per phase). EN61000-3-3: 2008, Electromagnetic compatibility (EMC) -- Part 3-3: Limits - Limitation of voltage changes, voltage fluctuations and flicker in public low-voltage supply systems, for equipment with rated current  $\leq 16$  A per phase and not subject to conditional connection.

The objective of the manufacturer is to demonstrate compliance with EN55022 Class B limits for Information Technology Equipment.

**Maintenance of compliance** is the responsibility of the manufacturer. Any modification of the product maybe which result in lowering the emission/immunity should be checked to ensure compliance has been maintained.

### 1.3 Test Methodology

All measurements contained in this report were conducted with EN 55022, Information technology equipment -

Radio disturbance characteristics - Limits and methods of measurement.

The equipment under test (EUT) was configured to measure its highest possible emission/immunity level. The test setup was adapted accordingly in reference to the Operating Instructions.

## 1.4 Test Facility

- **FCC – Registration No.: 994117**

SEM.Test Compliance Services 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 and the Registration is 994117.

- **Industry Canada (IC) Registration No.: 7673A**

The 3m Semi-anechoic chamber of SEM.Test Compliance Services Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 7673A.

- **CNAS Registration No.: L4062**

Shenzhen SEM.Test Electronics Service Co., Ltd. is a testing organization accredited by China National Accreditation Service for Conformity Assessment (CNAS) according to ISO/IEC 17025. The accreditation certificate number is L4062. All measurement facilities used to collect the measurement data are located at 3/F, Jinbao Commerce Building, Xin'an Fanshen Road, Bao'an District, Shenzhen, P.R.C (518101)

## 1.5 EUT Exercise Software

The EUT exercise program used during radiated and conducted testing was designed to exercise the system components. The test software is started while the EUT is on to simulate the normal work.

## 1.6 Accessories Equipment List and Details

Description	Manufacturer	Model	Serial Number
Notebook	SAMSUNG	NP-R20	124V93FP30082V
/	/	/	/

Cable Description	Length (M)	Shielded/Unshielded	With Core/Without Core
RJ 45	1.8	Unshielded	Without Core
/	/	/	/

## 1.7 EUT Cable List and Details

Cable Description	Length (M)	Shielded/Unshielded	With Core/Without Core
DC Power Cable	1.2	Unshielded	Without Core
/	/	/	/

## 2. SUMMARY OF TEST RESULTS

Description of Test	Result
§5.1 Conducted Emission	Compliant
§6 Radiated Emission	Compliant
EN61000-3-2 Harmonic Current Emission	Compliant
EN61000-3-3 Voltage Fluctuation And Flicker	Compliant

SEM. Test Compliance

### 3. CONDUCTED EMISSIONS

#### 3.1 Measurement Uncertainty

Base on NIS 81, The Treatment of Uncertainty in EMC Measurements, the best estimate of the uncertainty of any conducted emissions measurement is  $\pm 2.88$  dB.

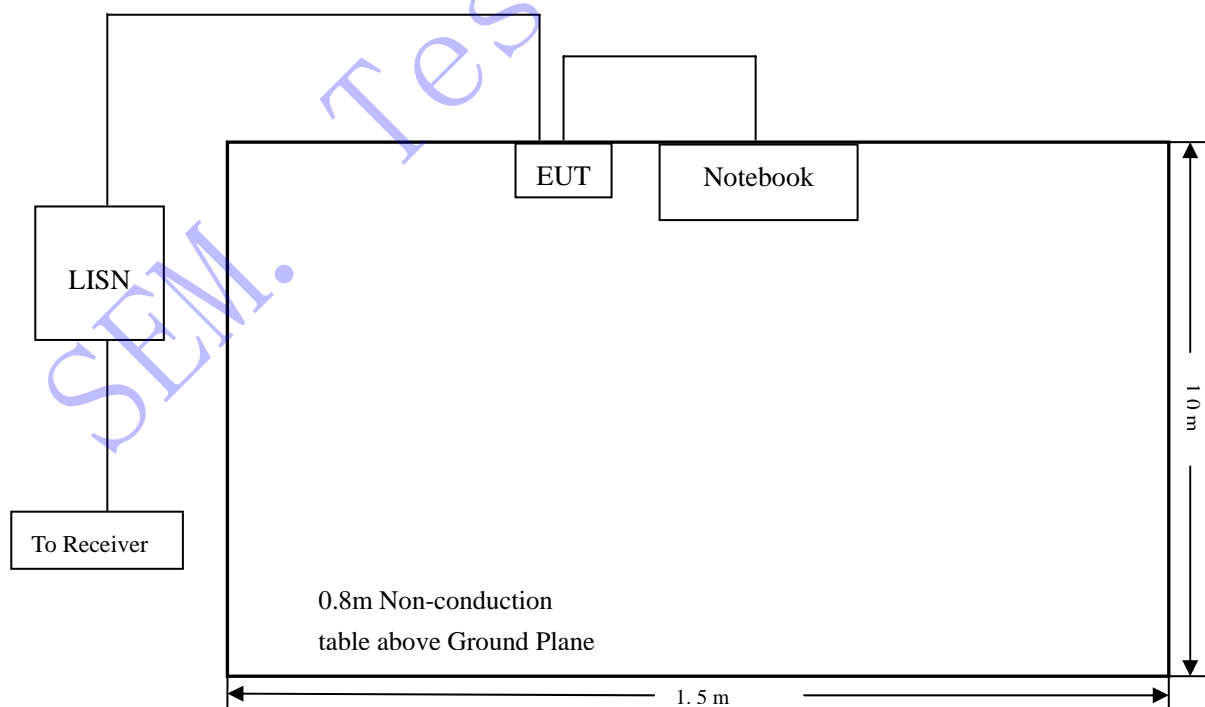
#### 3.2 Test Equipment List and Details

Description	Manufacturer	Model	Serial Number	Cal. Date	Due. Date
EMI Test Receiver	Rohde & Schwarz	ESPI	101611	2010-12-20	2011-12-19
L.I.S.N	Schwarz beck	NSLK8126	8126-224	2010-12-20	2011-12-19
Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100911	2010-12-20	2011-12-19
AMN	EMCO	3825/2	11967C	2010-12-20	2011-12-19
Power Divider	Weinschel	1506A	PM204	2010-12-20	2011-12-19
Current Probe	FCC	F-33-4	091684	2010-12-20	2011-12-19

#### 3.3 Test Procedure

Test is conducting under the description of EN 55022 Information technology equipment - Radio disturbance characteristics - Limits and methods of measurement.

#### 3.4 Basic Test Setup Block Diagram



### 3.5 Environmental Conditions

Temperature:	22 ° C
Relative Humidity:	55 %
ATM Pressure:	1015 mbar

### 3.6 Summary of Test Results/Plots

According to the data in section 3.7, the EUT complied with the EN55022 Conducted margin for a Class B device, with the *worst* margin reading of:

**-3.34 dB $\mu$ V at 0.730 MHz in the Line mode, QP detector (adapter Model: ILP50-2400750b), 0.15-30MHz**

**-2.93 dB $\mu$ V at 0.362 MHz in the Neutral mode, QP detector (adapter Model: YHSW-240050V), 0.15-30MHz**

**-9.96 dB $\mu$ V at 0.402 MHz in the Neutral mode, Average detector (adapter Model: SAW-2400500), 0.15-30MHz**

**-31.23 dB $\mu$ V at 0.778 MHz in the RJ45 Port, Peak detector, 0.15-30MHz**

### 3.7 Conducted Emissions Test Data

Plot of Conducted Emissions Test Data

Conducted Disturbance

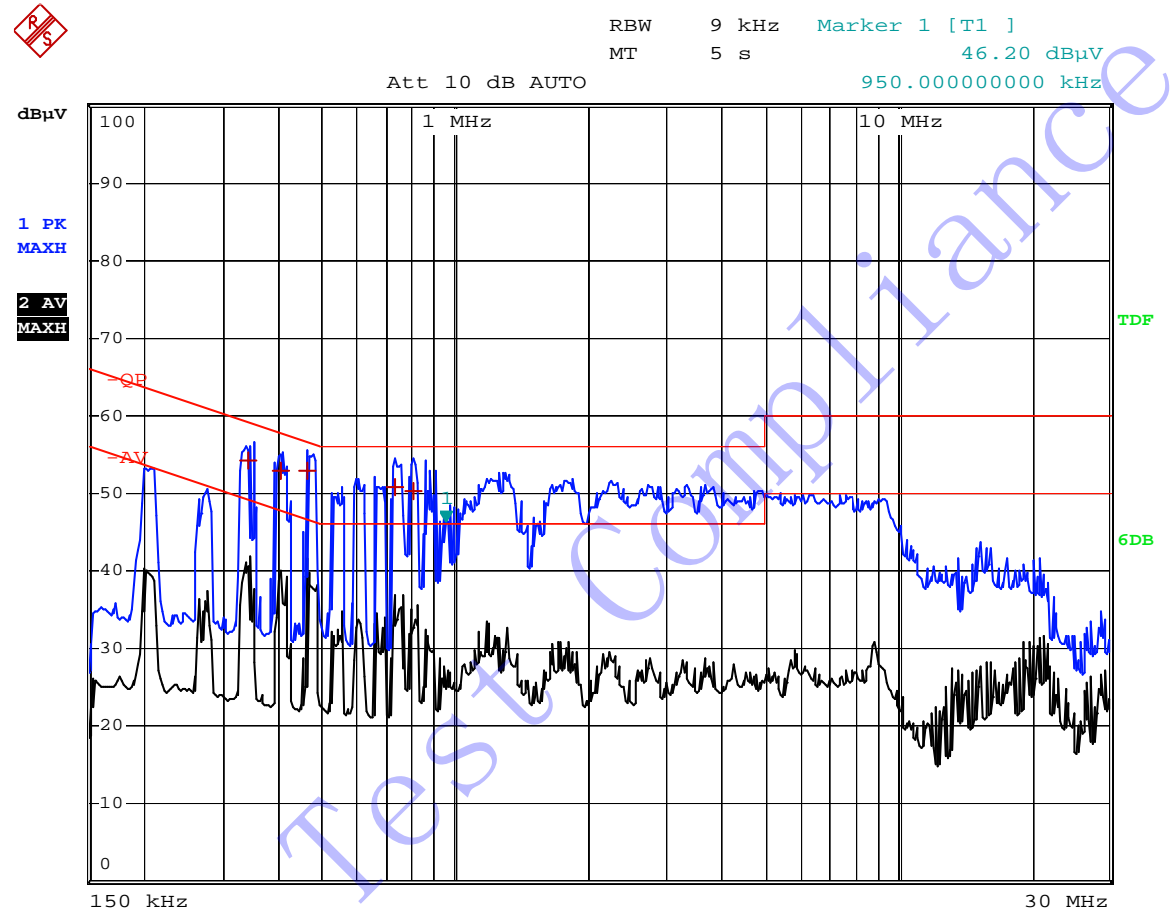
EUT: WIRELESS ACCESS POINT

M/N: WPE72

Operating Condition: Operating

Test Specification: N

Comment: Adapter Model: ILP50-2400750b

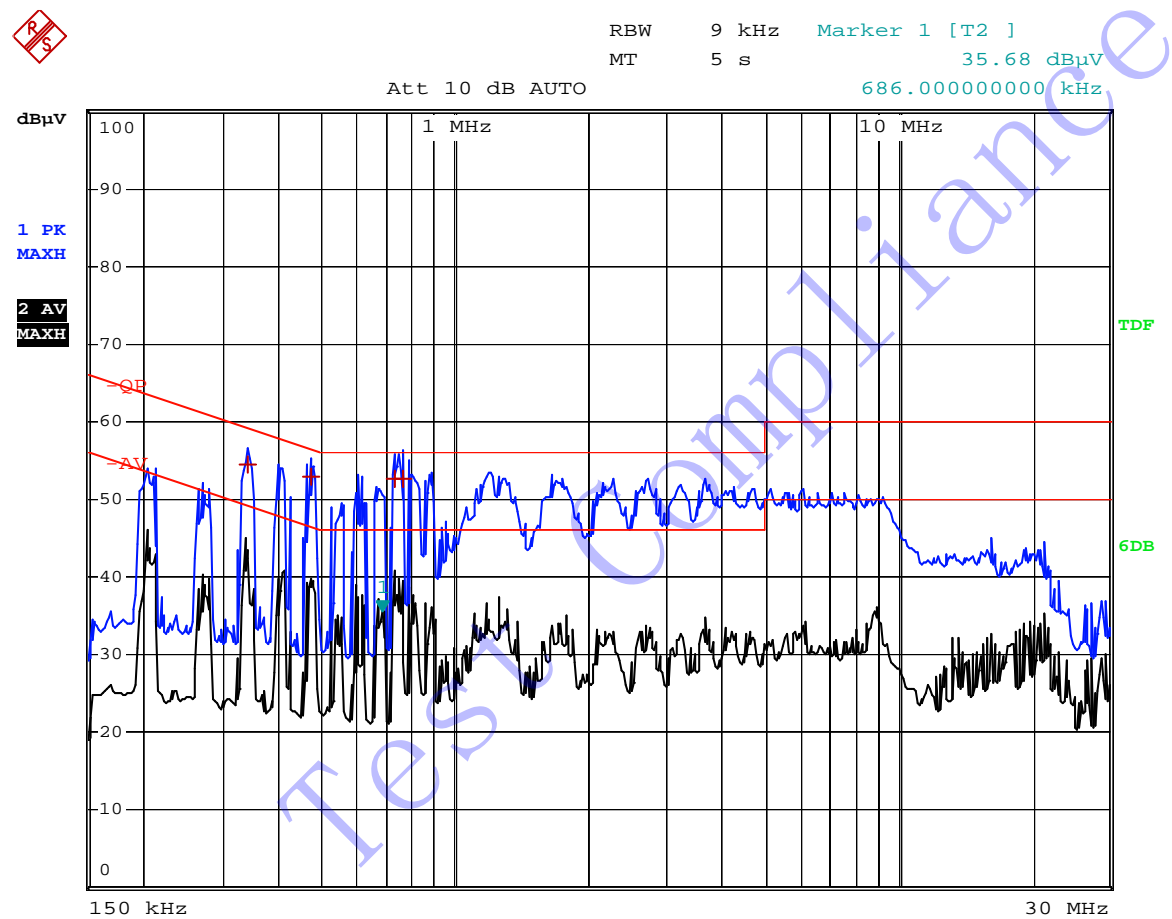


EDIT PEAK LIST (Final Measurement Results)			
Trace1:	-QP		
Trace2:	-AV		
Trace3:	---		
TRACE	FREQUENCY	LEVEL dBµV	DELTA LIMIT dB
1 Quasi Peak	338 kHz	54.15	-5.09
1 Quasi Peak	402 kHz	52.90	-4.90
1 Quasi Peak	462 kHz	52.82	-3.83
1 Quasi Peak	730 kHz	50.91	-5.08
1 Quasi Peak	802 kHz	50.32	-5.67



Plot of Conducted Emissions Test Data

Conducted Disturbance  
EUT: WIRELESS ACCESS POINT  
M/N: WPE72  
Operating Condition: Operating  
Test Specification: N  
Comment: Adapter Model: ILP50-2400750b



EDIT PEAK LIST (Final Measurement Results)			
Trace1:	-QP		
Trace2:	-AV		
Trace3:	---		
TRACE	FREQUENCY	LEVEL dBµV	DELTA LIMIT dB
1 Quasi Peak	338 kHz	54.38	-4.87
1 Quasi Peak	470 kHz	52.81	-3.70
1 Quasi Peak	730 kHz	52.65	-3.34
1 Quasi Peak	762 kHz	52.63	-3.36

Plot of Conducted Emissions Test Data

Conducted Disturbance

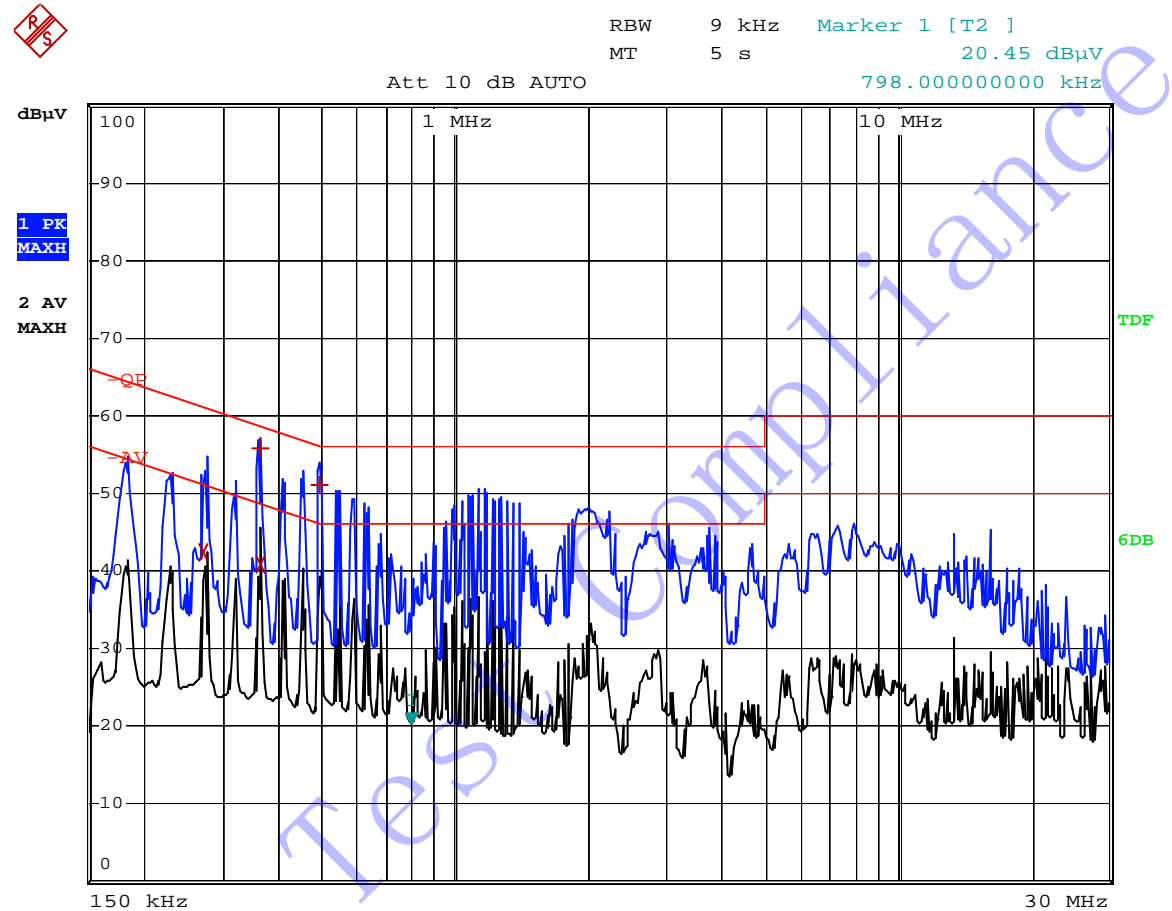
EUT: WIRELESS ACCESS POINT

M/N: WPE72

Operating Condition: Operating

Test Specification: N

Comment: Adapter Model: YHSW-240050V



EDIT PEAK LIST (Final Measurement Results)			
Trace1:	-QP		
Trace2:	-AV		
Trace3:	---		
TRACE	FREQUENCY	LEVEL dBµV	DELTA LIMIT dB
2 Average	274 kHz	42.39	-8.60
1 Quasi Peak	362 kHz	55.75	-2.93
2 Average	362 kHz	40.86	-7.81
1 Quasi Peak	494 kHz	50.95	-5.14

Plot of Conducted Emissions Test Data

Conducted Disturbance

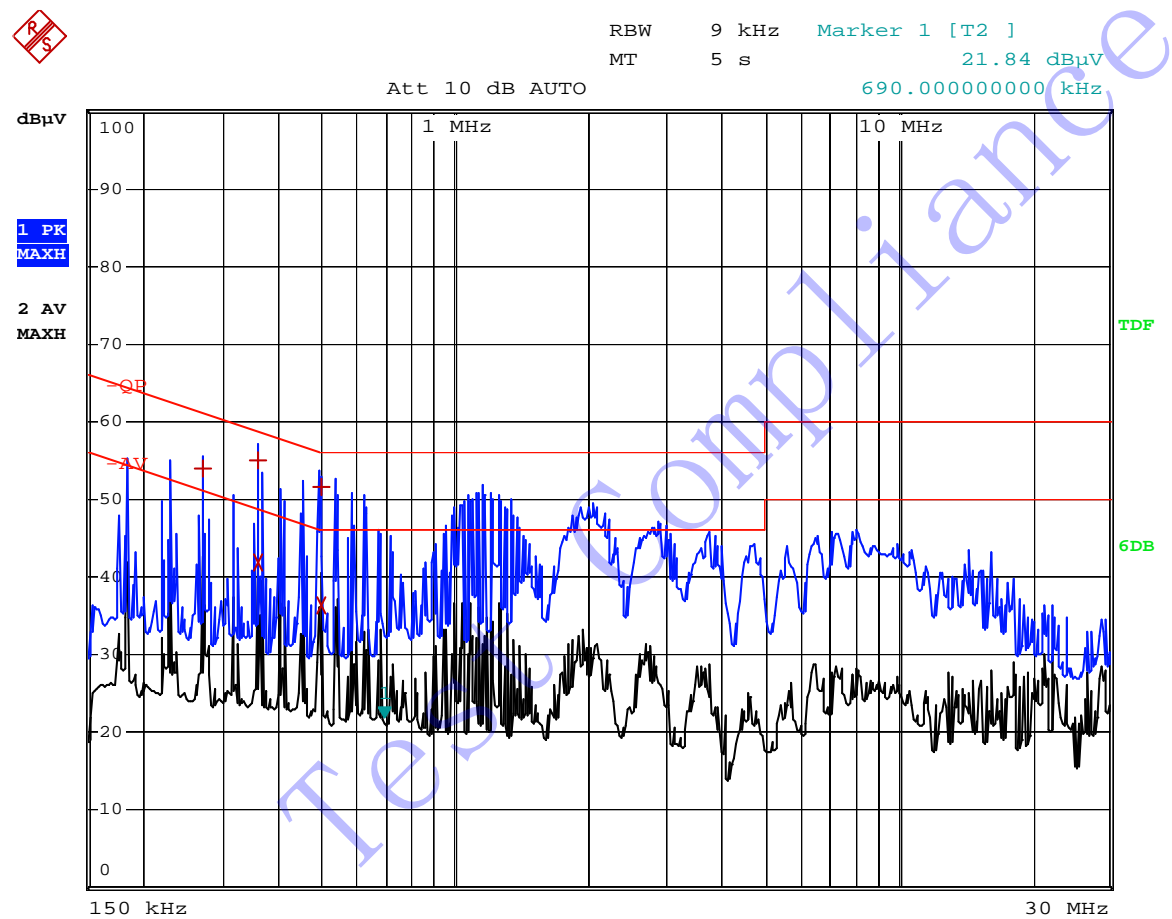
EUT: WIRELESS ACCESS POINT

M/N: WPE72

Operating Condition: Operating

Test Specification: N

Comment: Adapter Model: YHSW-240050V

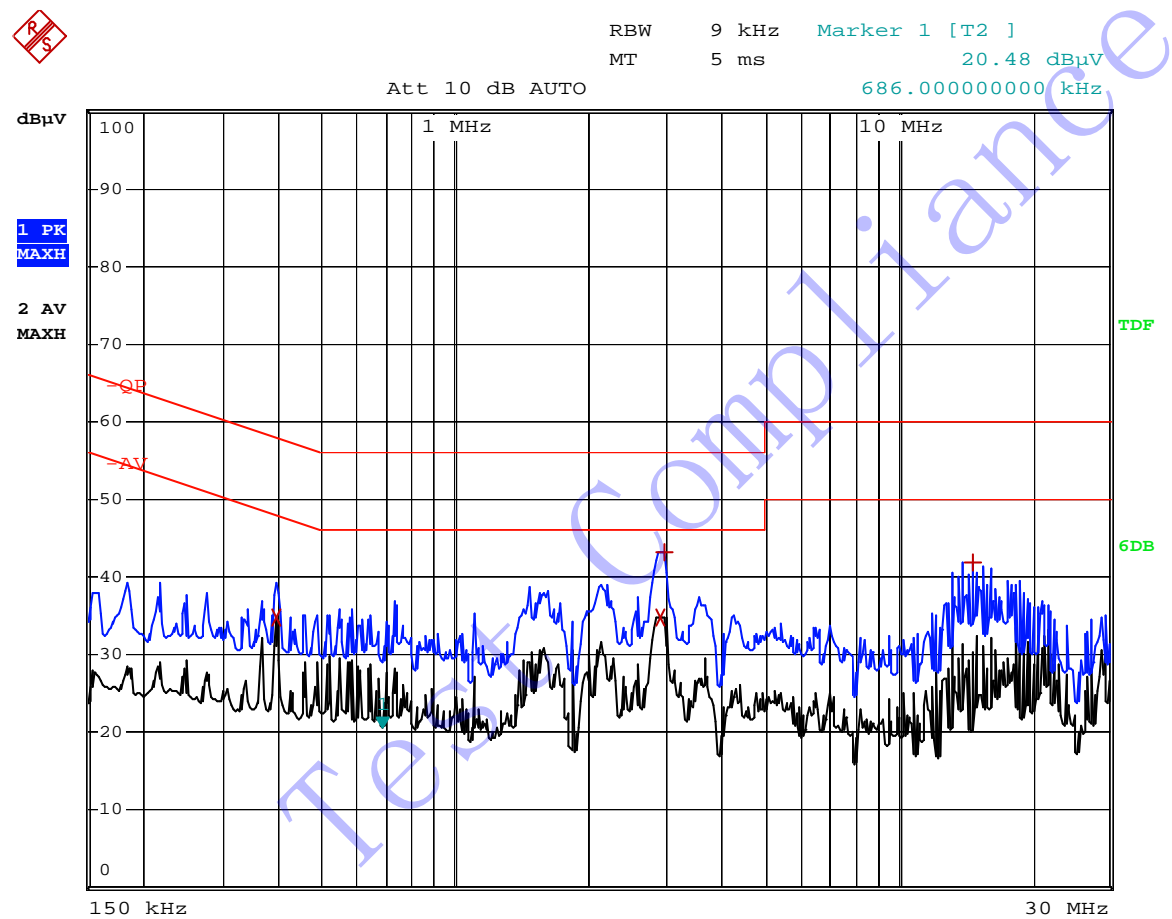


EDIT PEAK LIST (Final Measurement Results)			
Trace1:	-QP		
Trace2:	-AV		
Trace3:	---		
TRACE	FREQUENCY	LEVEL dBµV	DELTA LIMIT dB
1 Quasi Peak	270 kHz	53.89	-7.22
2 Average	358 kHz	41.86	-6.90
1 Quasi Peak	358 kHz	55.06	-3.71
1 Quasi Peak	498 kHz	51.48	-4.54
2 Average	498 kHz	36.28	-9.75



Plot of Conducted Emissions Test Data

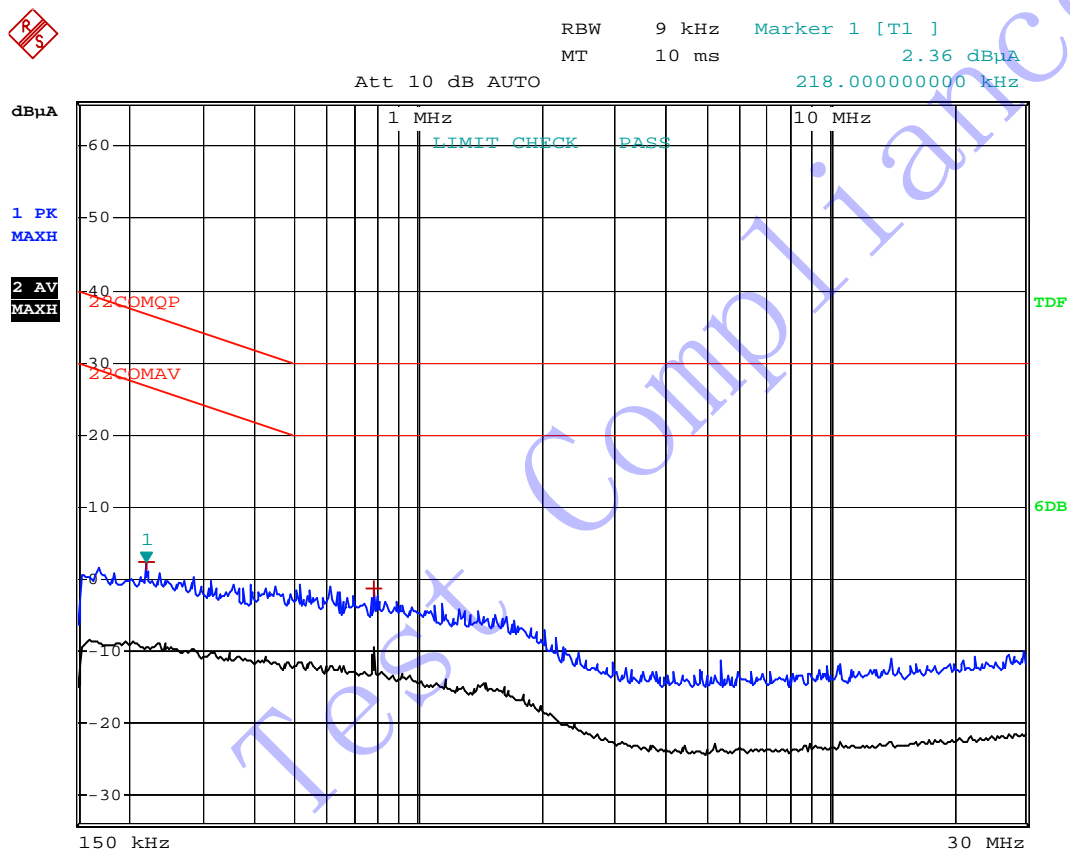
Conducted Disturbance  
EUT: WIRELESS ACCESS POINT  
M/N: WPE72  
Operating Condition: Operating  
Test Specification: L  
Comment: Adapter Model: SAW-2400500



EDIT PEAK LIST (Prescan Results)			
Trace1:	-QP		
Trace2:	-AV		
Trace3:	---		
TRACE	FREQUENCY	LEVEL dBµV	DELTA LIMIT dB
2 Average	394 kHz	34.84	-13.13
2 Average	2.922 MHz	34.88	-11.11
1 Max Peak	2.958 MHz	43.23	-12.77
1 Max Peak	14.762 MHz	41.95	-18.04

Plot of Conducted Emissions Test Data

Conducted Disturbance  
EUT: WIRELESS ACCESS POINT  
M/N: WPE72  
Operating Condition: Operating  
Test Specification: RJ45  
Comment:



EDIT PEAK LIST (Prescan Results)			
Trace1:	22COMQP		
Trace2:	22COMAV		
Trace3:	---		
TRACE	FREQUENCY	LEVEL dBμA	DELTA LIMIT dB
1 Max Peak	218 kHz	2.36	-34.53
1 Max Peak	778 kHz	-1.23	-31.23

## 4. RADIATED EMISSION

### 4.1 Measurement Uncertainty

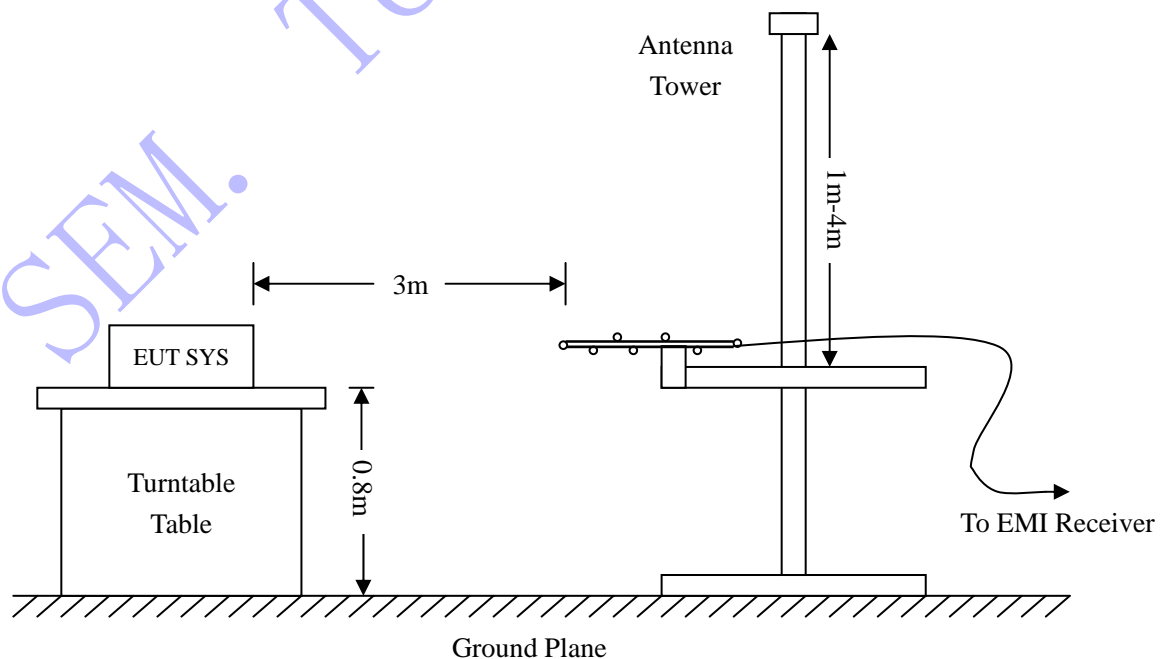
Base on NIS 81, The Treatment of Uncertainty in EMC Measurements, the best estimate of the uncertainty of any radiation emissions measurement is  $\pm 5.10$  dB.

### 4.2 Test Equipment List and Details

Description	Manufacturer	Model	Serial Number	Cal. Date	Due. Date
Spectrum Analyzer	R&S	FSP	836079/035	2010-12-20	2011-12-19
EMI Test Receiver	R&S	ESVB	825471/005	2010-12-20	2011-12-19
Positioning Controller	C&C	CC-C-1F	N/A	2010-12-20	2011-12-19
RF Switch	EM	EMSW18	SW060023	2010-12-20	2011-12-19
Pre-amplifier	Agilent	8447F	3113A06717	2010-12-20	2011-12-19
Pre-amplifier	Compliance Direction	PAP-0118	24002	2010-12-20	2011-12-19
Trilog Broadband Antenna	SCHWARZBECK	VULB9163	9163-333	2011-01-09	2012-01-08
Horn Antenna	ETS	3117	00086197	2011-01-09	2012-01-08

### 4.3 Test Procedure

Test is conducting under the description of EN 55022 Information technology equipment - Radio disturbance characteristics - Limits and methods of measurement.



#### 4.4 Corrected Amplitude & Margin Calculation

The Corrected Amplitude is calculated by adding the Antenna Factor and the Cable Factor, and subtracting the Amplifier Gain from the Amplitude reading. The basic equation is as follows:

$$\text{Corr. Ampl.} = \text{Indicated Reading} + \text{Antenna Factor} + \text{Cable Factor} - \text{Amplifier Gain}$$

The “**Margin**” column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of -6dBμV means the emission is 6dBμV below the maximum limit for Class B. The equation for margin calculation is as follows:

$$\text{Margin} = \text{Corr. Ampl.} - \text{EN55022 Class B Limit}$$

#### 4.5 Environmental Conditions

Temperature:	23° C
Relative Humidity:	53%
ATM Pressure:	1011 mbar

#### 4.6 Summary of Test Results/Plots

According to the data in section 4.6, the EUT complied with the EN55022 Class B standards, and had the worst margin is:

**-2.66 dBμV at 401.8385 MHz in the, Horizontal polarization (adapter Model: ILP50-2400750b) 30 MHz to 6 GHz, 3Meters**

**-2.73 dBμV at 401.8385 MHz in the, Horizontal polarization (adapter Model: YHSW-240050V) 30 MHz to 6 GHz, 3Meters**

**-2.45 dBμV at 804.6028 MHz in the, Vertical polarization (adapter Model: SAW-2400500) 30 MHz to 6 GHz, 3Meters**



Plot of Radiation Emissions Test Data

Radiated Emission

EUT: WIRELESS ACCESS POINT

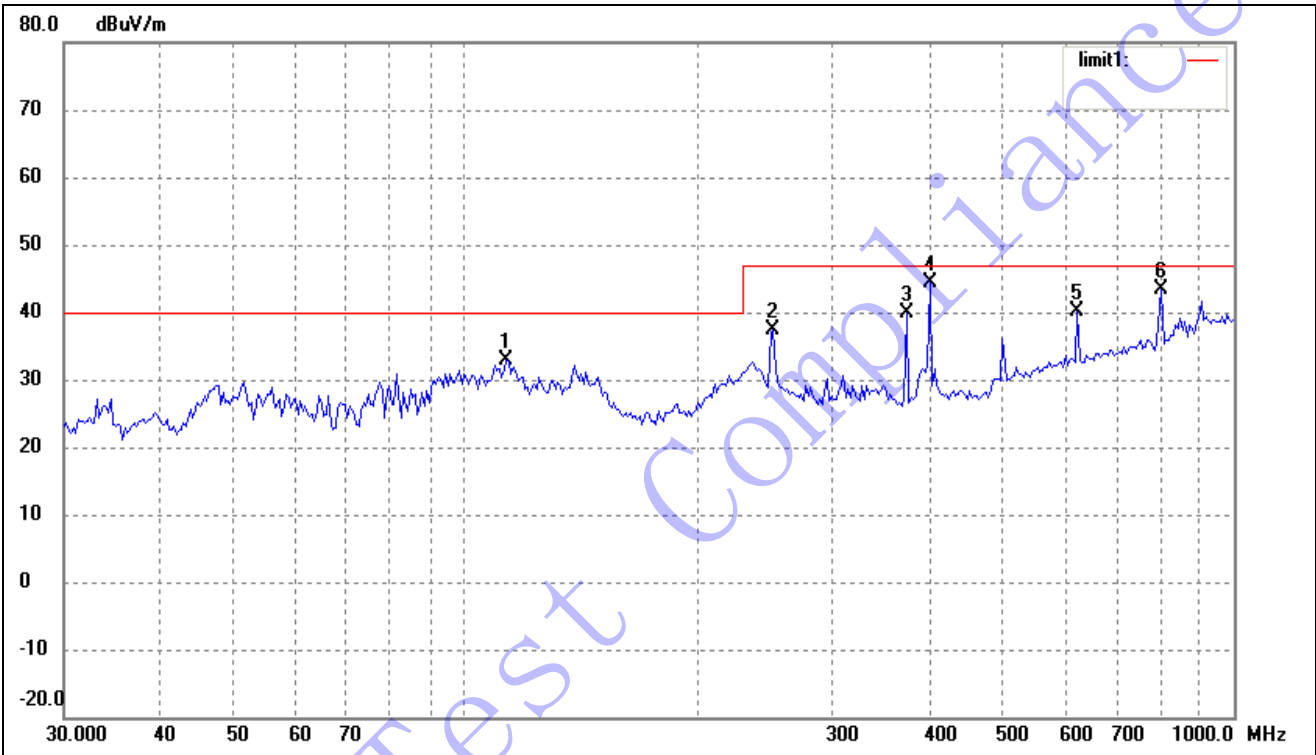
M/N: WPE72

Operating Condition: Operating

Test Specification: Horizontal & Vertical

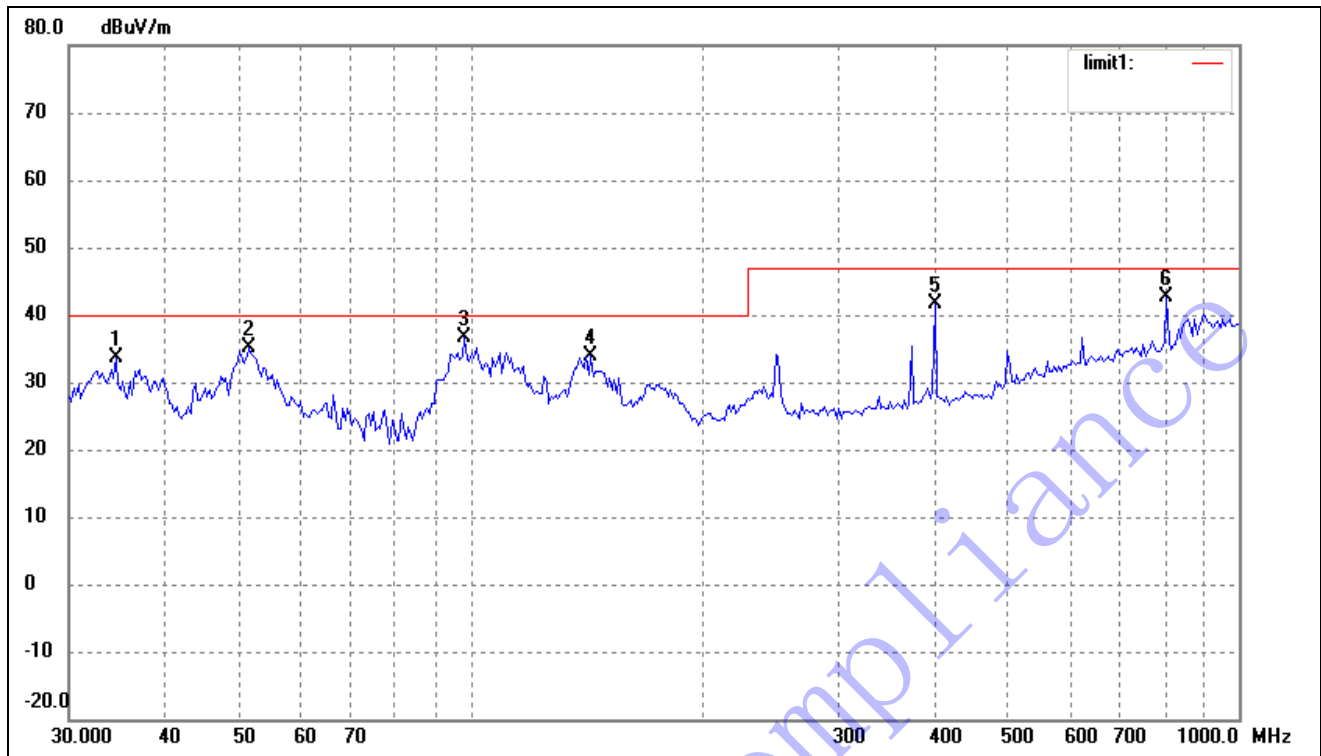
Comment: ILP50-2400750b

Horizontal



No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	( ° )	(cm)	
1	112.9196	25.88	7.11	32.99	40.00	-7.01	235	100	peak
2	251.1804	28.55	8.72	37.27	47.00	-9.73	112	100	peak
3	374.6226	28.70	11.11	39.81	47.00	-7.19	200	100	peak
4	401.8385	32.94	11.40	44.34	47.00	-2.66	150	100	QP
5	625.0780	23.17	16.88	40.05	47.00	-6.95	279	100	QP
6	804.6028	24.17	19.10	43.27	47.00	-3.73	100	100	QP

Vertical:



No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ( ° )	Height (cm)	Remark
1	34.5173	26.97	6.77	33.74	40.00	-6.26	261	100	peak
2	51.4807	27.14	7.91	35.05	40.00	-4.95	95	100	QP
3	98.1419	28.34	8.30	36.64	40.00	-3.36	136	200	QP
4	143.3261	29.86	4.00	33.86	40.00	-6.14	360	100	peak
5	401.8385	30.16	11.40	41.56	47.00	-5.44	100	100	QP
6	804.6028	23.64	19.10	42.74	47.00	-4.26	185	100	QP

Note: emissions are only the base noise in frequency 1GHz~6GHz.

Plot of Radiation Emissions Test Data

Radiated Emission

EUT: WIRELESS ACCESS POINT

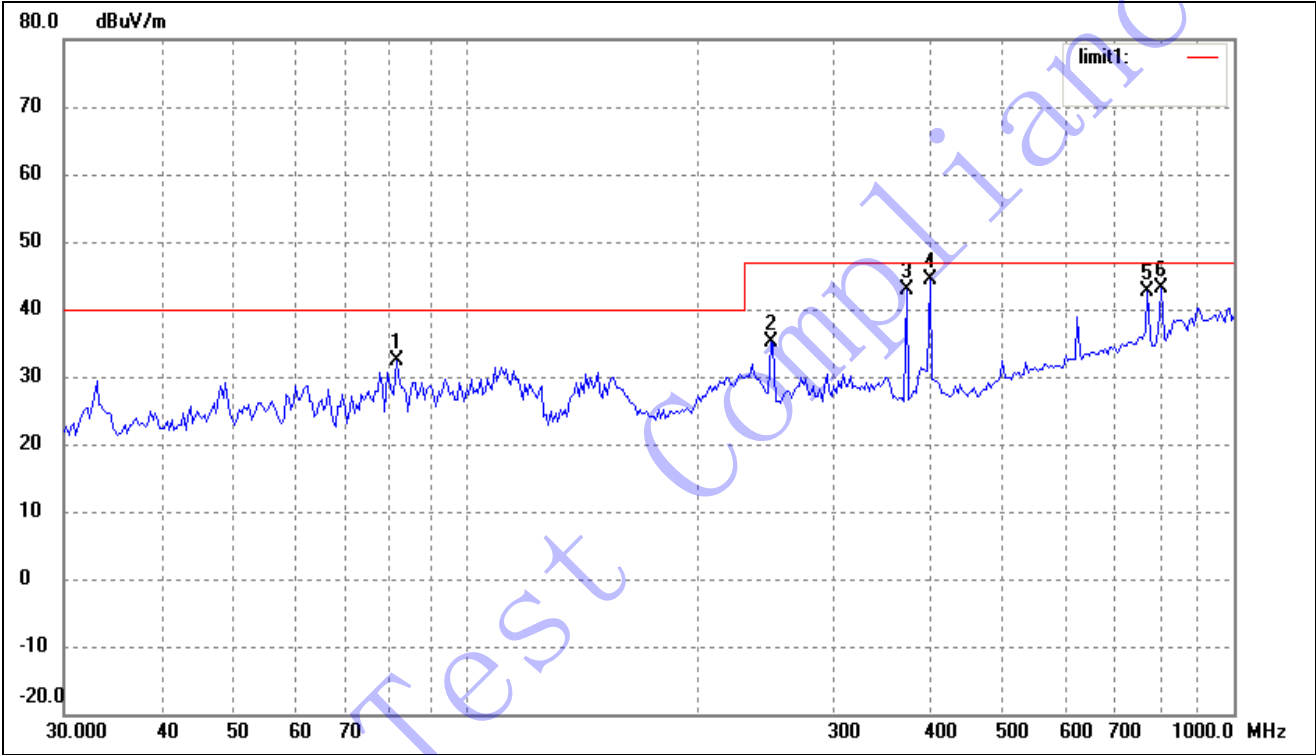
M/N: WPE72

Operating Condition: Operating

Test Specification: Horizontal & Vertical

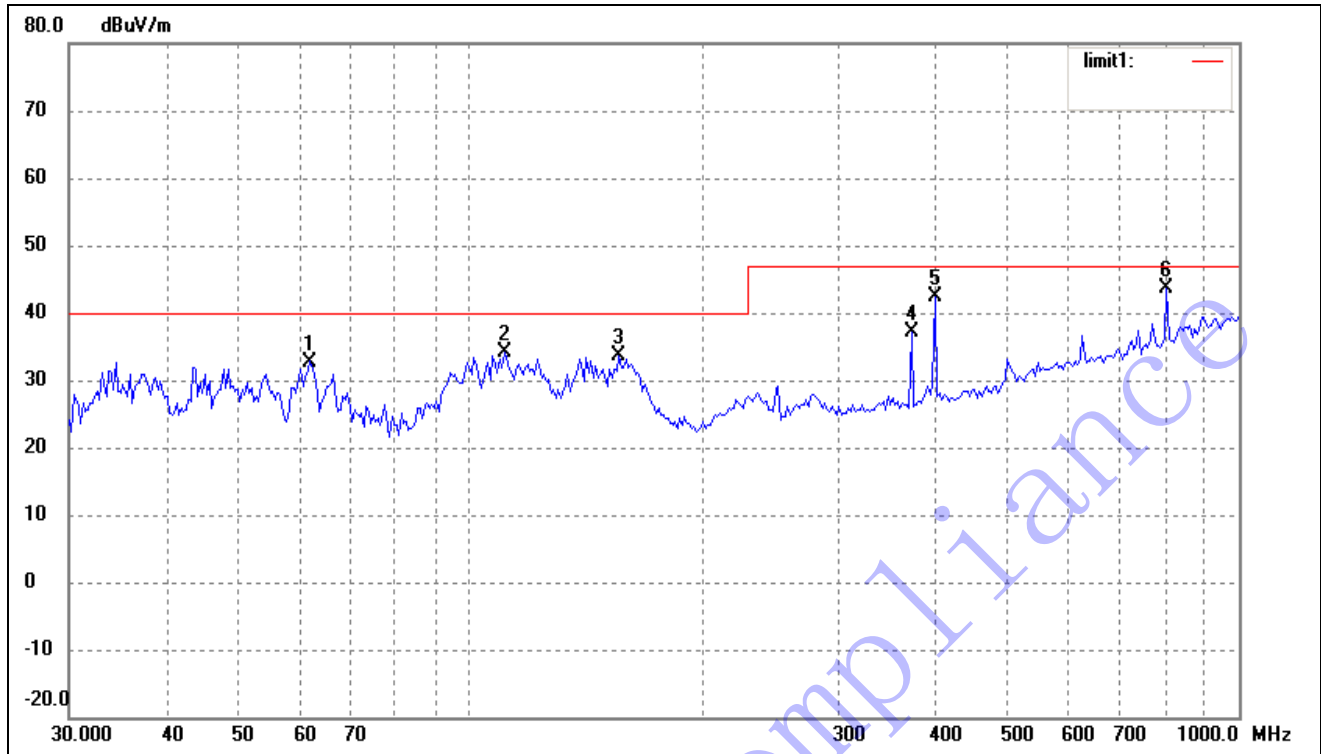
Comment: YHSW-240050V

Horizontal



No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ( ° )	Height (cm)	Remark
1	81.2117	28.19	4.07	32.26	40.00	-7.74	210	100	peak
2	249.4250	26.51	8.68	35.19	47.00	-11.81	114	100	peak
3	374.6225	31.76	11.11	42.87	47.00	-4.13	270	200	QP
4	401.8385	32.87	11.40	44.27	47.00	-2.73	168	100	QP
5	771.4486	24.06	18.57	42.63	47.00	-4.37	300	100	QP
6	804.6028	24.01	19.10	43.11	47.00	-3.89	100	100	QP

Vertical:



No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ( ° )	Height (cm)	Remark
1	61.7781	25.92	6.83	32.75	40.00	-7.25	231	100	peak
2	110.5687	26.52	7.50	34.02	40.00	-5.98	84	100	QP
3	155.9101	29.36	4.35	33.71	40.00	-6.29	47	100	peak
4	374.6226	26.10	11.11	37.21	47.00	-9.79	120	100	peak
5	401.8385	30.87	11.40	42.27	47.00	-4.73	167	100	QP
6	804.6028	24.50	19.10	43.60	47.00	-3.40	360	100	QP

Note: emissions are only the base noise in frequency 1GHz~6GHz.

Plot of Radiation Emissions Test Data

Radiated Emission

EUT: WIRELESS ACCESS POINT

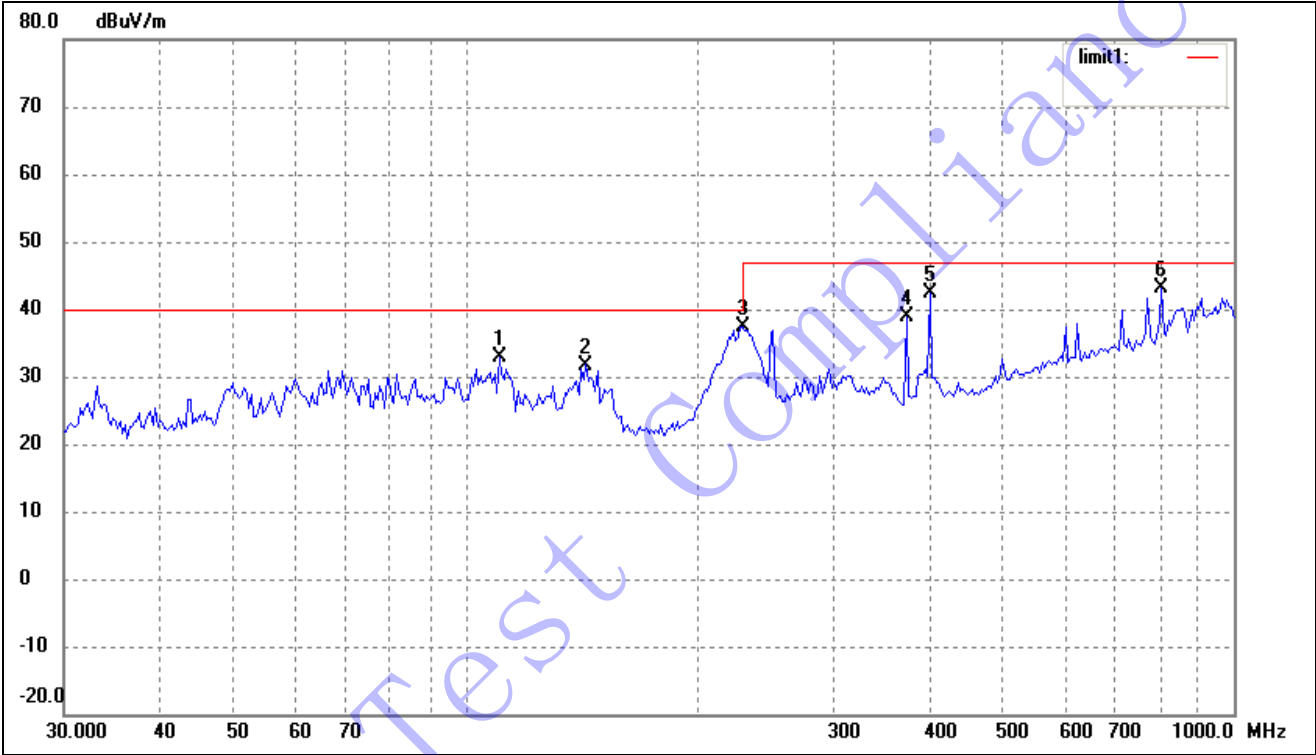
M/N: WPE72

Operating Condition: Operating

Test Specification: Horizontal & Vertical

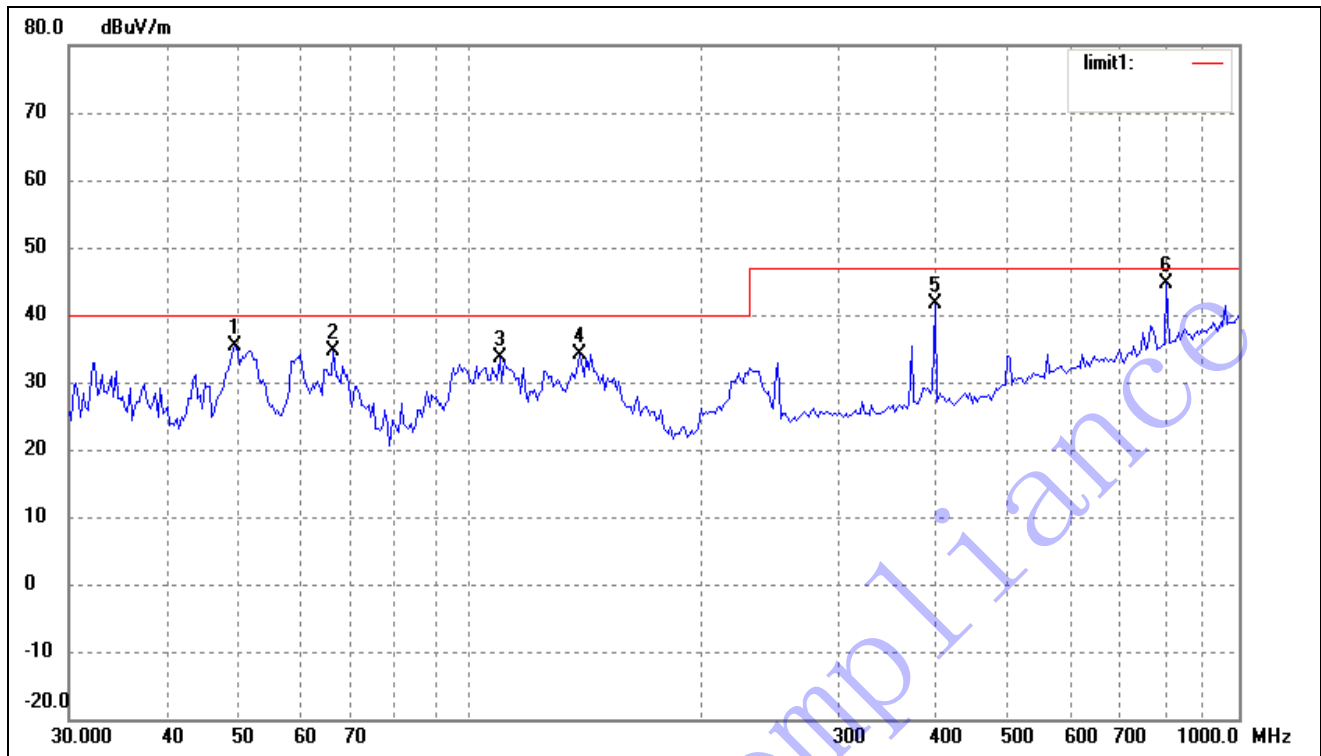
Comment: SAW-2400500

Horizontal



No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ( ° )	Height (cm)	Remark
1	110.5687	25.35	7.50	32.85	40.00	-7.15	360	100	peak
2	143.3261	27.75	4.00	31.75	40.00	-8.25	270	100	peak
3	229.2931	29.55	7.82	37.37	40.00	-2.63	180	100	QP
4	374.6226	27.69	11.11	38.80	47.00	-8.20	100	100	peak
5	401.8385	31.09	11.40	42.49	47.00	-4.51	165	200	QP
6	804.6028	23.96	19.10	43.06	47.00	-3.94	210	100	QP

Vertical:



No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ( ° )	Height (cm)	Remark
1	49.3594	27.29	8.00	35.29	40.00	-4.71	210	100	QP
2	66.2662	29.67	5.08	34.75	40.00	-5.25	274	100	QP
3	109.0286	25.96	7.68	33.64	40.00	-6.36	133	100	peak
4	138.3873	30.08	4.06	34.14	40.00	-5.86	28	100	QP
5	401.8385	30.25	11.40	41.65	47.00	-5.35	64	100	QP
6	804.6028	25.45	19.10	44.55	47.00	-2.45	113	100	QP

Note: emissions are only the base noise in frequency 1GHz~6GHz.

## 5. EN 61000-3-2 HARMONIC CURRENT EMISSIONS

### 5.1 Test Equipment List and Details

Description	Manufacturer	Model	Serial Number	Cal. Date	Due. Date
Digital Power Analyzer	Em Test AG/Switzerland	DPA 500	V0745103095	2010-12-20	2011-12-19
Source	Em Test AG/Switzerland	ACS 500	V0745103096	2010-12-20	2011-12-19

### 5.2 Test Procedure

Test is conducting under the description of EN61000-3-2: 2006+A2: 2009

### 5.3 Test Standards

EN61000-3-2: 2006+A2: 2009

Limit: Clause 7

### Environmental Conditions

Temperature:	22 °C
Relative Humidity:	48%
ATM Pressure:	1022 mbar

### 5.4 EN 61000-3-2: Harmonic Current Emissions Test Data

According to Clause 7 of EN 61000-3-2:2006+A2: 2009, the EUT is less than 75W, belong to 'equipment with a rated power of 75W or less', therefore 'limits are not specified in this edition of the standards'. It is deem to full fit the requirements of the standards.

Test Result: Pass

## 6. EN 61000-3-3 VOLTAGE FLUCTUATION AND FLICKER

### 6.1 Test Equipment List and Details

Description	Manufacturer	Model	Serial Number	Cal. Date	Due. Date
Digital Power Analyzer	Em Test AG/Switzerland	DPA 500	V0745103095	2010-12-20	2011-12-19
Source	Em Test AG/Switzerland	ACS 500	V0745103096	2010-12-20	2011-12-19

### 6.2 Test Procedure

Test is conducting under the description of EN61000-3-3: 2008

### 6.3 Test Standards

EN61000-3-3: 2008

Limit: Clause 5

### Environmental Conditions

Temperature:	22 °C
Relative Humidity:	48%
ATM Pressure:	1022 mbar

### 6.4 EN 61000-3-3: Voltage Fluctuation and Flicker Test Data



**Flicker Test Summary per EN/IEC61000-3-3 (Run time)**

EUT: WIRELESS ACCESS POINT

Tested by: Seven

Test category: All parameters (European limits)

Test Margin: 100

Test date: 2011-12-04      Start time: 04:26:50 PM      End time: 04:36:50 PM

Test duration (min): 10      Data file name: F-000213.cts\_data

Comment: ILP50-2400750b

Customer: Compex

Test Result: Pass

Status: Test Completed

Pst<sub>i</sub> and limit lineEuropean LimitsPlt and limit line

Parameter values recorded during the test:

Vrms at the end of test (Volt):230.21

Highest dt (%):	0.00	Test limit (%):	3.30	Pass
Time(mS) > dt:	0.0	Test limit (mS):	500.0	Pass
Highest dc (%):	0.00	Test limit (%):	3.30	Pass
Highest dmax (%):	0.00	Test limit (%):	4.00	Pass
Highest Pst (10 min. period):	0.064	Test limit:	1.000	Pass
Highest Plt (2 hr. period):	0.028	Test limit:	0.650	Pass

**Flicker Test Summary per EN/IEC61000-3-3 (Run time)**

EUT: WIRELESS ACCESS POINT

Tested by: Seven

Test category: All parameters (European limits)

Test Margin: 100

Test date: 2011-12-04      Start time: 04:26:50 PM      End time: 04:36:50 PM

Test duration (min): 10      Data file name: F-000214.cts\_data

Comment: YHSW-240050V

Customer: Compex

Test Result: Pass

Status: Test Completed

Pst<sub>i</sub> and limit lineEuropean LimitsPlt and limit line

Parameter values recorded during the test:

Vrms at the end of test (Volt):230.12

Highest dt (%):	0.00	Test limit (%):	3.30	Pass
Time(mS) > dt:	0.0	Test limit (mS):	500.0	Pass
Highest dc (%):	0.00	Test limit (%):	3.30	Pass
Highest dmax (%):	0.00	Test limit (%):	4.00	Pass
Highest Pst (10 min. period):	0.054	Test limit:	1.000	Pass
Highest Plt (2 hr. period):	0.026	Test limit:	0.640	Pass

**Flicker Test Summary per EN/IEC61000-3-3 (Run time)**

EUT: WIRELESS ACCESS POINT

Tested by: Seven

Test category: All parameters (European limits)

Test Margin: 100

Test date: 2011-12-04      Start time: 04:26:50 PM      End time: 04:36:50 PM

Test duration (min): 10      Data file name: F-000215.cts\_data

Comment: SAW-2400500

Customer: Compex

Test Result: Pass

Status: Test Completed

Pst<sub>i</sub> and limit lineEuropean LimitsPlt and limit line

Parameter values recorded during the test:

Vrms at the end of test (Volt):229.97

Highest dt (%):	0.00	Test limit (%):	3.30	Pass
Time(mS) > dt:	0.0	Test limit (mS):	500.0	Pass
Highest dc (%):	0.00	Test limit (%):	3.20	Pass
Highest dmax (%):	0.00	Test limit (%):	4.00	Pass
Highest Pst (10 min. period):	0.052	Test limit:	1.000	Pass
Highest Plt (2 hr. period):	0.024	Test limit:	0.620	Pass

## EXHIBIT 1- PRODUCT LABELING

### Proposed CE Label Format



Specifications: Text is Black in color and is justified. Labels are printed in indelible ink on permanent adhesive backing or silk-screened onto the EUT or shall be affixed at a conspicuous location on the EUT.

### Proposed Label Location on EUT

CE Label Location



## EXHIBIT 2 - EUT PHOTOGRAPHS

EUT View 1



EUT View 2

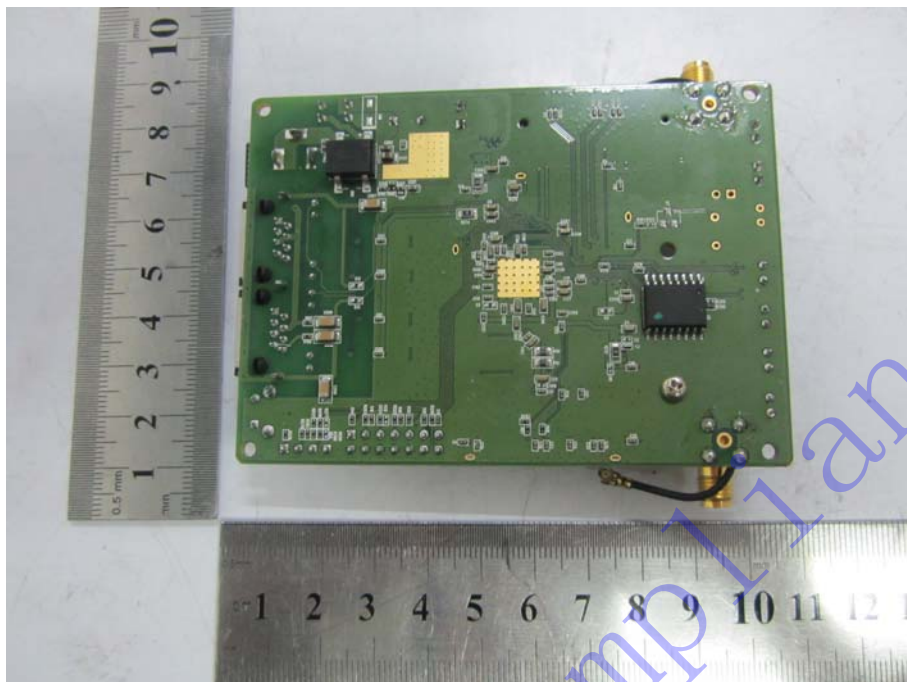


EUT View 3



Solder Board-Component View 1



**Solder Board-Component View 2**



## EXHIBIT 3 - TEST SETUP PHOTOGRAPHS

### Conduction Emission Test View

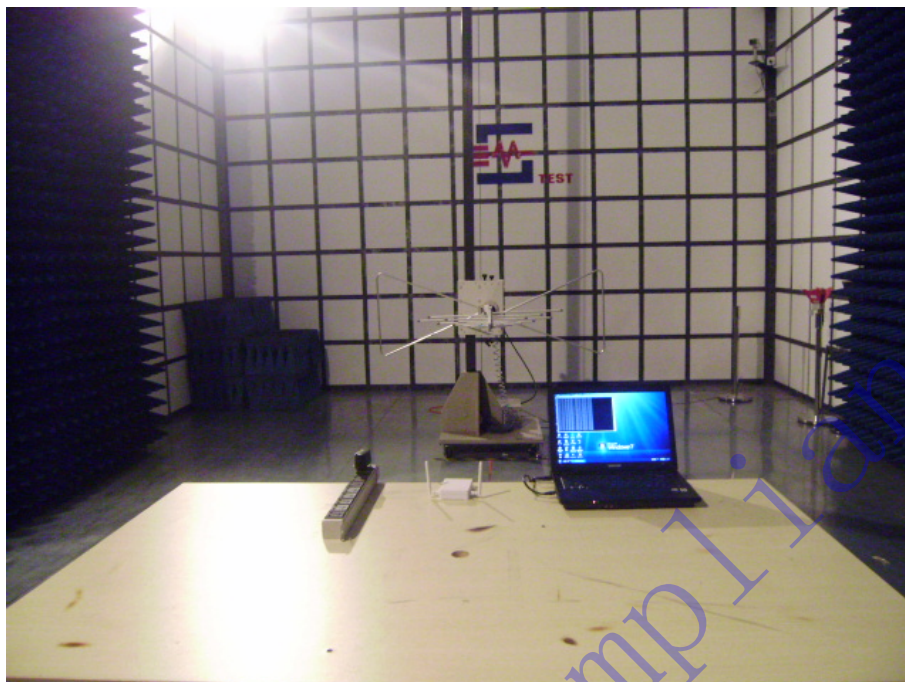
*AC Power Port*



*RJ45 Port*





**Radiation Emission Test View****EN 61000-3-2/3**

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## **EXHIBIT 4 - SCHEMATICS**

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## **EXHIBIT 5 - USERS MANUAL**

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**\*\*\*\*\* END OF REPORT \*\*\*\*\***