

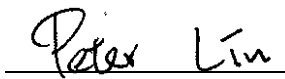
ISED Test Report

Equipment : 802.11ac Professional Wi-Fi + BT5.0 Module
Model No. : SU60-SOMC (453-00137)
SU60-SOMC (453-00153)
SU60-SOMC-2G (453-00138)
(please refer to section 1.1.1 for more details.)
Brand Name : Laird Connectivity
Applicant : Laird Connectivity LLC
Address : W66N220 Commerce Court Cedarburg WI
53012 United States Of America
Standard : ICES-003 Issue 7, Class B
Received Date : Apr. 11, 2018
Tested Date : Aug. 01 ~ Sep. 19, 2018

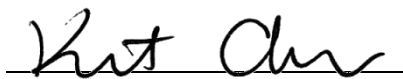
We, International Certification Corporation, would like to declare that the tested sample has been evaluated and in compliance with the requirement of the above standards. The test results contained in this report refer exclusively to the product. It shall not be reproduced except in full without the written approval of our laboratory.

Reviewed by:

Approved by:



Peter Lin / Supervisor



Kent Chen / Assistant Manager

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Release Record

Report No.	Version	Description	Issued Date
CI841101-07	Rev. 01	Initial issue	May 18, 2023
CI841101-07	Rev. 02	Correcting model name.	May 22, 2023

Summary of Test Results

ICES-003 Emission Tests				
Ref. Std. Clause	Test Standard	Test Items	Measured	Result
3.2.1	ICES-003 Issue 7, Class B	Conducted Emissions	Under limit 18.13dB @ 0.396MHz.	Pass
3.2.2	ICES-003 Issue 7, Class B	Radiated Emissions	Under limit 3.85dB @ 375.32MHz.	Pass

Declaration of Conformity:

The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.

1 General Description

1.1 Information

This report is issued as a supplementary report to original ICC report no. FD841101. The difference is concerned with following items:

- ✧ Updating standard version from issue 6 to issue 7. The modifications to test limits defined in issue 7 specification will be implemented in this baseline as well.
- ✧ MCP changed. See item 1.1.1 for details.
- ✧ Changing brand name, applicant and address.

Above change had been verified worst case found in the original report and the test data was better than before, therefore, test results were kept the same as in the original report.

1.1.1 Product Details

The following models are provided to this EUT.

Brand Name	Model Name	Product Name	Description
Laird Connectivity	SU60-SOMC (453-00137)	802.11ac Professional Wi-Fi + BT5.0 Module	MCP, 2G Flash/1G LDPPR2, 4bit ECC
	SU60-SOMC (453-00153)		MCP, 2G Flash/1G LDPPR2, 8bit ECC
	SU60-SOMC-2G (453-00138)		MCP, 4G flash/2G LDPPR2, 4bit ECC

1.1.2 Feature of Equipment under Test (EUT)

Power Supply Type	3.3Vdc from host
Highest Frequency of the Internal Sources	5GHz

1.1.3 Antenna Details

Brand	Model	Type	Connector	Operating Frequency (MHz) / Gain (dBi)				
				2400~2483.5	5150~5250	5250~5350	5470~5725	5725~5850
LSR	001-0009	Dipole	IPEX U.FL	2	2			
Laird	NanoBlade-IP04	PCB Dipole	IPEX U.FL	2	3.9	3.9	4	4
Laird	MAF95310 Mini NanoBlade Flex	PCB Dipole	IPEX U.FL	2.79	3.38			
LSR	FlexPIFA 001-0016	PIFA	IPEX U.FL	2.5	3			
Ethertronics	WLAN_1000146	Magnetic Dipole	IPEX U.FL	2.5	3.5			
Laird	MIMO FlexPIFA Antenna	PIFA	IPEX U.FL	2	3			
LSR	001-0009 (with filter)	Dipole	IPEX U.FL	2	2			

1.1.4 Accessories

N/A

1.2 Test Equipment and Calibration Data

Test Item	Conducted Emission				
Test Site	Conduction room 1 / (CO01-WS)				
Tested date	Aug. 01, 2018				
Instrument	Manufacturer	Model No.	Serial No.	Calibration Date	Calibration Until
Receiver	R&S	ESR3	101657	Jan. 05, 2018	Jan. 04, 2019
LISN	SCHWARZBECK	Schwarzbeck 8127	8127-667	Nov. 13, 2017	Nov. 12, 2018
LISN (Support Unit)	SCHWARZBECK	Schwarzbeck 8127	8127-666	Nov. 24, 2017	Nov. 23, 2018
RF Cable-CON	EMC	EMCCFD300-BM-B M-6000	50821	Dec. 18, 2017	Dec. 17, 2018
50 ohm terminal (Support Unit)	NA	50	04	May 22, 2018	May 21, 2019
Measurement Software	AUDIX	e3	6.120210k	NA	NA
Note: Calibration Interval of instruments listed above is one year.					

Test Item	Radiated Emission below 1GHz				
Test Site	966 chamber 2 / (03CH02-WS)				
Tested date	Sep. 19, 2018				
Instrument	Manufacturer	Model No.	Serial No.	Calibration Date	Calibration Until
Receiver	Agilent	N9038A	MY53290044	Sep. 26, 2017	Sep. 25, 2018
Loop Antenna	R&S	HFH2-Z2	100330	Nov. 13, 2017	Nov. 12, 2018
Bilog Antenna	SCHWARZBECK	VULB9168	VULB9168-523	Nov. 10, 2017	Nov. 09, 2018
Preamplifier	EMC	EMC02325	980194	Sep. 25, 2017	Sep. 24, 2018
LF cable 1M	EMC	EMCCFD400-NM-N M-1000	160501	Dec. 06, 2017	Dec. 05, 2018
LF cable 3M	Woken	CFD400NL-LW	CFD400NL-003	Dec. 06, 2017	Dec. 05, 2018
LF cable 10M	EMCC	CFD400-E	CFD400-001	Dec. 06, 2017	Dec. 05, 2018
Measurement Software	AUDIX	e3	6.120210g	NA	NA
Note: Calibration Interval of instruments listed above is one year.					

Test Item	Radiated Emission above 1GHz				
Test Site	966 chamber 2 / (03CH02-WS)				
Tested date	Sep. 19, 2018				
Instrument	Manufacturer	Model No.	Serial No.	Calibration Date	Calibration Until
Spectrum Analyzer	Agilent	N9010A	MY53400091	Nov. 15, 2017	Nov. 14, 2018
Horn Antenna 1G-18G	SCHWARZBECK	BBHA 9120 D	BBHA 9120 D 1095	Sep. 22, 2017	Sep. 21, 2018
Horn Antenna 18G-40G	SCHWARZBECK	BBHA 9170	BBHA 9170517	Nov. 23, 2017	Nov. 22, 2018
Preamplifier	Agilent	83017A	MY39501309	Sep. 25, 2017	Sep. 24, 2018
Preamplifier	EMC	EMC184045B	980192	Aug. 22, 2017	Aug. 21, 2018
RF Cable	EMC	EMC105-SM-SM-80 00	180512	May 08, 2018	May 07, 2019
RF Cable	HUBER+SUHNER	SUCOFLEX104	MY16018/4	Dec. 06, 2017	Dec. 05, 2018
Measurement Software	AUDIX	e3	6.120210g	NA	NA
Note: Calibration Interval of instruments listed above is one year.					

1.3 Testing Applied Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

ICES-003 Issue 7, Class B

ANSI C63.4-2014 amended as per ANSI C63.4a-2017

1.4 Deviation from Test Standard and Measurement Procedure

None

1.5 Measurement Uncertainty

The measurement uncertainties given below are based on a 95% confidence level (based on a coverage factor ($k=2$)).

Measurement Uncertainty		
Test Item	Frequency	Uncertainty
Conducted Emissions	150kHz ~ 30MHz	± 2.90 dB
Radiated Emissions	30MHz ~ 1GHz	± 3.87 dB
	Above 1GHz	± 5.60 dB

Note: The results of measurements of emissions shall reference the measurement uncertainty considerations contained in CISPR 16-4-2.

2 Test Configuration

2.1 Testing Facility

Test Laboratory	International Certification Corporation
Test Site	CO01-WS, 03CH02-WS
Address of Test Site	No.3-1, Lane 6, Wen San 3rd St., Kwei Shan Dist., Tao Yuan City 33381, Taiwan (R.O.C.)

2.2 The Worst Case Measurement Configuration

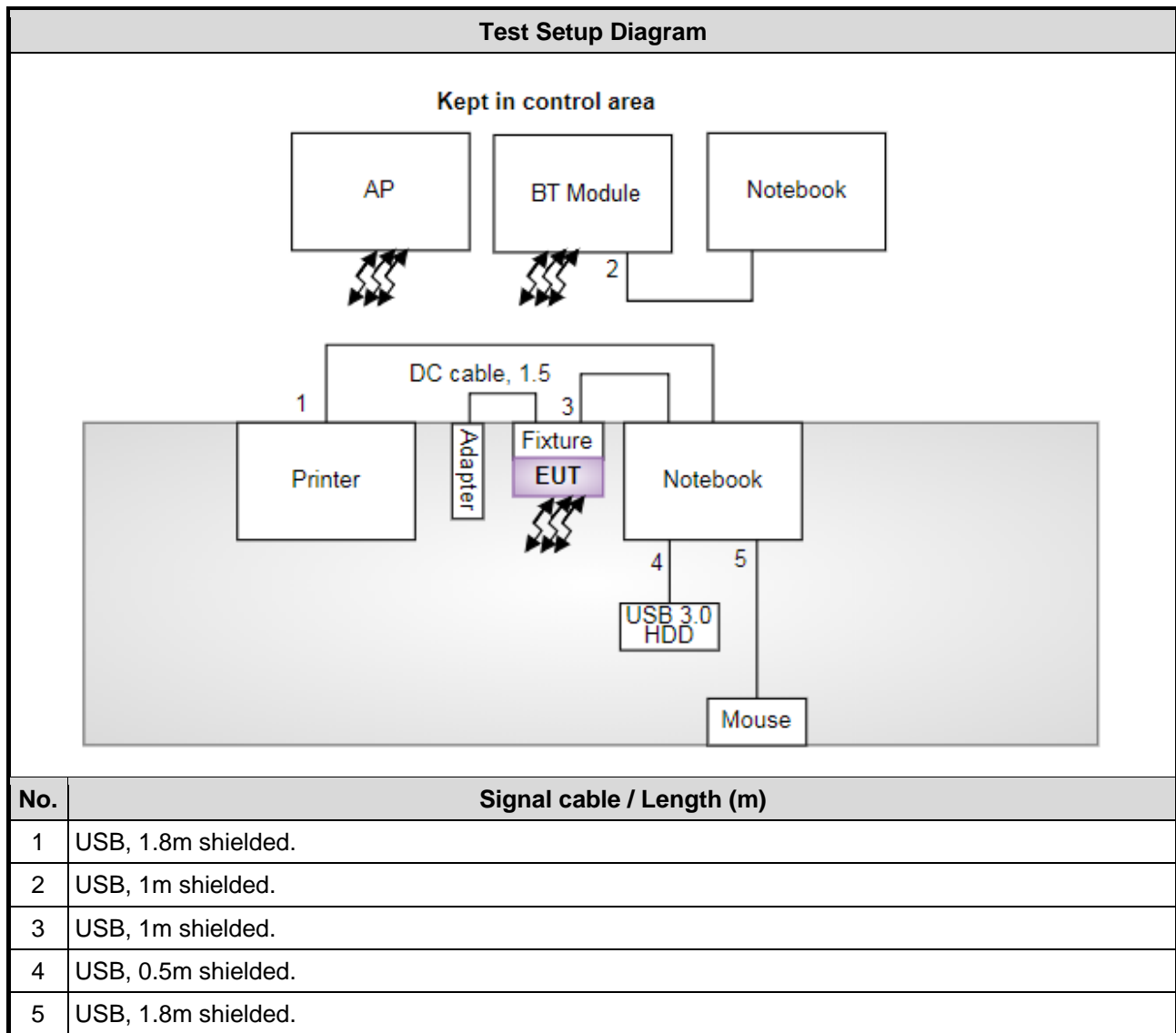
Radiation Pretest Mode	
Pretest Mode	Operating Description
1	EUT(2Gb FLASH + 1Gb RAM): WiFi 5G & BT Link, EUT orientation: X-axis, Ant: 001-0009,
2	EUT(2Gb FLASH + 1Gb RAM): WiFi 2.4G & BT Link, EUT orientation: X-axis, Ant: NanoBlade-IP04
3	EUT(2Gb FLASH + 1Gb RAM): WiFi 5G & BT Link, EUT orientation: X-axis, Ant: MAF95310 Mini NanoBlade Flex
4	EUT(2Gb FLASH + 1Gb RAM): WiFi 2.4G & BT Link, EUT orientation: X-axis, Ant: FlexPIFA 001-0016
5	EUT(2Gb FLASH + 1Gb RAM): WiFi 5G & BT Link, EUT orientation: X-axis, Ant: MIMO FlexPIFA Antenna
6	EUT(2Gb FLASH + 1Gb RAM): WiFi 2.4G & BT Link, EUT orientation: X-axis, Ant: WLAN_1000146
7	EUT(4Gb FLASH + 2Gb RAM): WiFi 5G & BT Link, EUT orientation: X-axis, Ant: 001-0009,
8	EUT(2Gb FLASH + 1Gb RAM): WiFi 5G & BT Link, EUT orientation: X-axis, Ant: 001-0009 with filter
<p>1) For Pretest Mode 7 is the worst case and only its data was record in this test report.</p> <p>2) The EUT was pretested with 3 orientations placed on the table for the radiated emission measurement – X, Y, and Z-axis. The X-axis results were found as the worst case and were shown in this report.</p>	

The Determined Worst Case Configurations	
Conducted Emissions	
Test Mode	Operating Description
1	EUT(4Gb FLASH + 2Gb RAM): WiFi 5G & BT Link, EUT orientation: X-axis, Ant: LSR/001-0009,
Radiated Emissions	
Test Mode ≤ 1GHz	Operating Description
1	EUT(4Gb FLASH + 2Gb RAM): WiFi 5G & BT Link, EUT orientation: X-axis, Ant: LSR/001-0009,
Test Mode > 1GHz	Operating Description
1	EUT(4Gb FLASH + 2Gb RAM): WiFi 5G & BT Link, EUT orientation: X-axis, Ant: LSR/001-0009,

2.3 Local Support Equipment List

Support Equipment List					
No.	Equipment	Brand	Model	S/N	Remarks
1	Notebook	DELL	Latitude E6440	8VXMD12	---
2	Printer	EPSON	XP-30	QSDK002410	---
3	USB 3.0 HDD	WD	WDBKXH5000 ABK	WX31AB210213	---
4	Mouse	DELL	MS111-L	2C3-00MM	---
5	Wireless AP	D-LINK	DIR-850L	RZ1Q4G6000263	---
6	Notebook	DELL	Latitude E6440	2PXMD12	---
7	Fixture	---	---	---	Provided by applicant.
8	Adapter	LEADER	MU24AY12020 0-A1	---	Provided by applicant.
9	BT Module	---	---	---	Provided by applicant.

2.4 Test Setup Chart



2.5 Test Software and Operating Condition

- Enabled all function of test system.
- The support notebook executed "WinEMC.exe" to send "H" patterns to its monitor and the monitor displayed them.
- The support notebook executed "WinEMC.exe" to send "H" patterns to the printer.
- The support notebook executed "WinEMC.exe" to read and wrote data from USB 3.0 HDD.
- The support notebook executed putty command to link with BT Module via EUT.
- The support notebook communicated with the EUT by using ping command through AP to receive and transmit data by WLAN.

3 Emission Tests Results

3.1 Conducted Emissions

3.1.1 Limit of Conducted Emissions

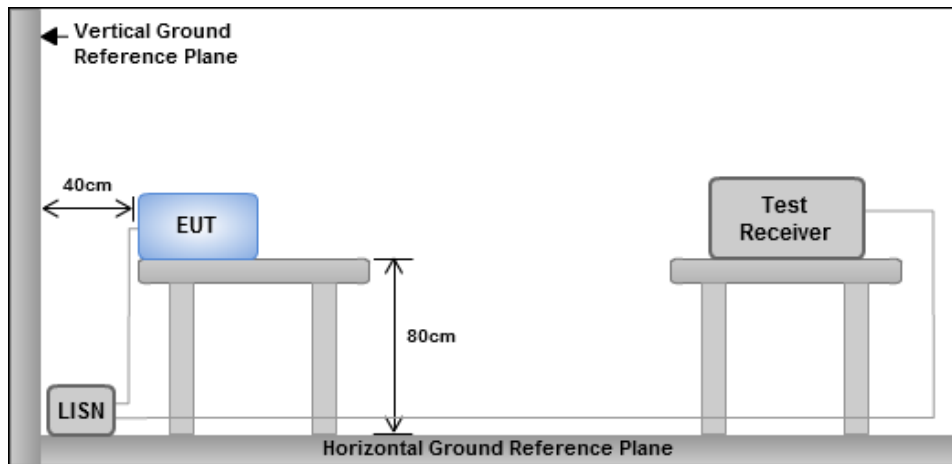
Frequency Range (MHz)	Class A Quasi-Peak (dBuV)	Class A Average (dBuV)	Class B Quasi-Peak (dBuV)	Class B Average (dBuV)
0.15 – 0.5	79	66	66 to 56 ⁱ	56 to 46 ⁱ
0.5 – 5	73	60	56	46
5 – 30	73	60	60	50

Note: The more stringent limit applies at transition frequencies.
i. The limit level in dBuV decreases linearly with the logarithm of frequency.

3.1.2 Test Procedures

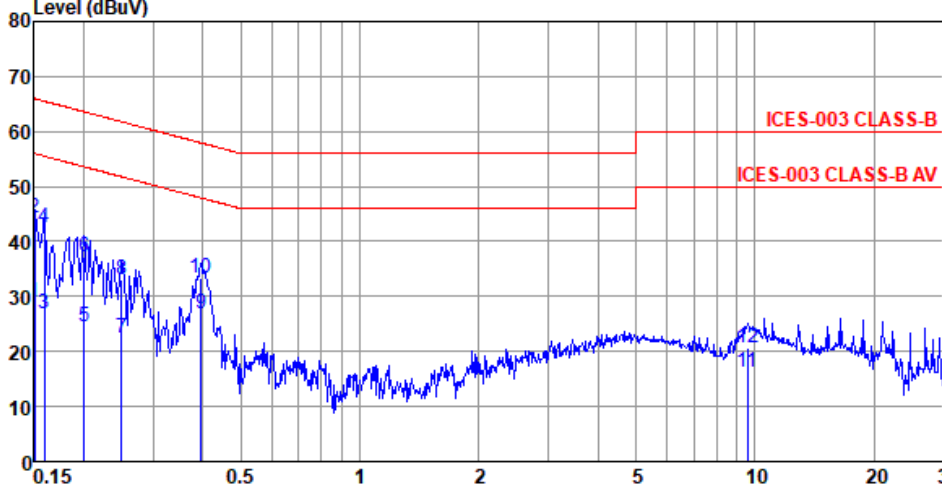
- The EUT was placed on a table with a height of 0.8 meters from the metal ground plane and 0.4 meters from the conducting wall of the shielding room and it was kept at least 0.8 meters from any other grounded conducting surface.
- The test equipment EUT installed received DC power through a Line Impedance Stabilization Network (LISN), which supplied power source and was grounded to the ground plane.
- All the support units were connected to the other LISN.
- The LISN provides 50 ohm coupling impedance for the measuring instrument.
- The CISPR states that a 50 ohm, 50 microhenry LISN should be used.
- Both sides of AC line were checked for maximum conducted interference.
- The measurement frequency range extends from 150 kHz to 30 MHz.
- Set the test-receiver system to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

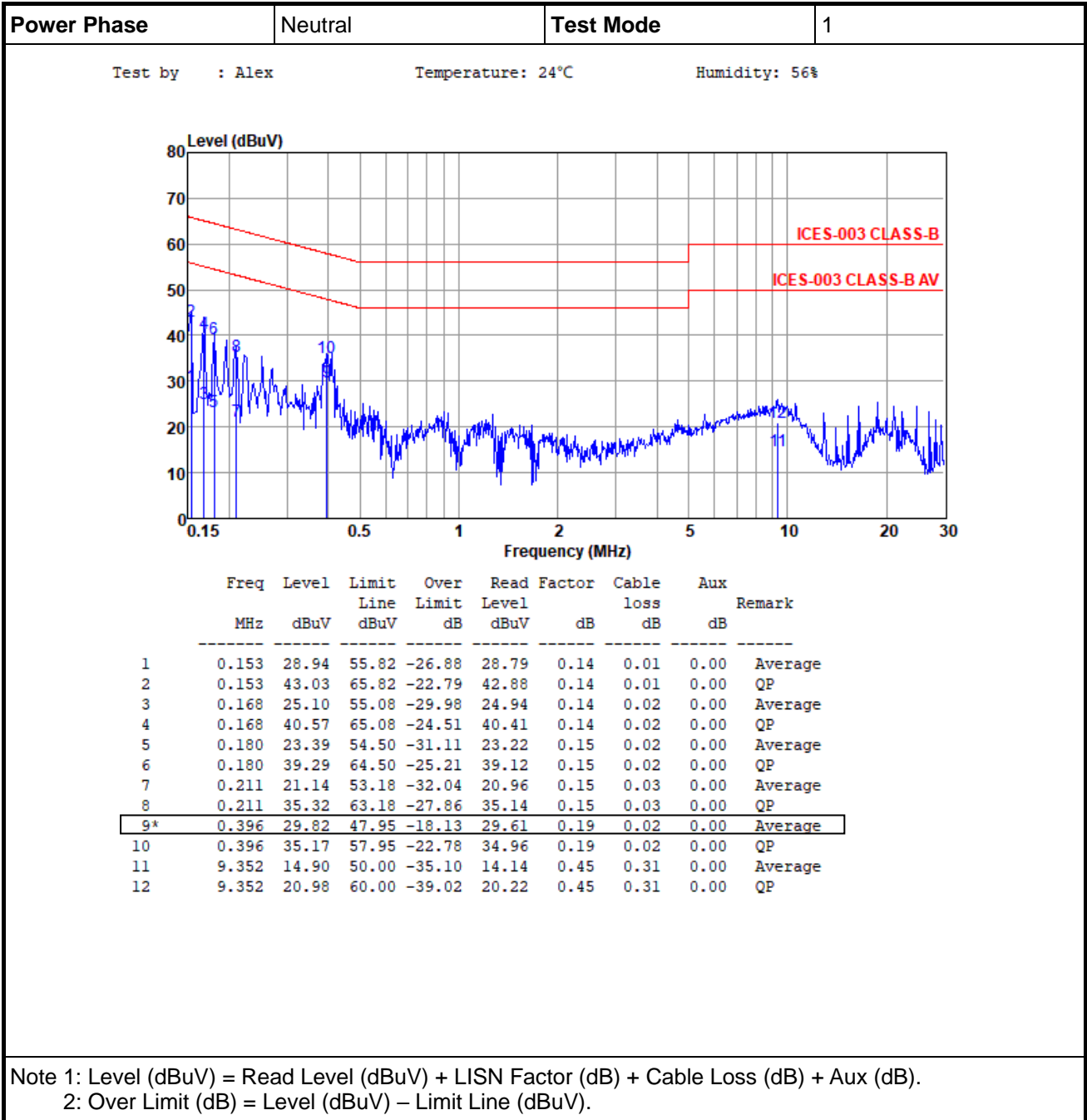
3.1.3 Test Setup



- Note: 1. Support units were connected to second LISN.
2. Both of LISNs (AMN) are 80 cm from EUT and at least 80 cm from other units and other metal planes

3.1.4 Test Result of Conducted Emissions

Power Phase	Line	Test Mode	1																																																																																																																																												
Test by : Alex Temperature: 24°C Humidity: 56%																																																																																																																																															
<div><div><div>Level (dBUV)</div><div></div></div></div>																																																																																																																																															
<table><thead><tr><th></th><th>Freq</th><th>Level</th><th>Limit</th><th>Over</th><th>Read</th><th>Factor</th><th>Cable</th><th>Aux</th><th>Remark</th></tr><tr><th></th><th>MHz</th><th>dBuV</th><th>dBuV</th><th>dB</th><th>Level</th><th>dB</th><th>loss</th><th>dB</th><th></th></tr></thead><tbody><tr><td>1</td><td>0.150</td><td>28.88</td><td>56.00</td><td>-27.12</td><td>28.60</td><td>0.27</td><td>0.01</td><td>0.00</td><td>Average</td></tr><tr><td>2</td><td>0.150</td><td>44.29</td><td>66.00</td><td>-21.71</td><td>44.01</td><td>0.27</td><td>0.01</td><td>0.00</td><td>QP</td></tr><tr><td>3</td><td>0.159</td><td>26.98</td><td>55.52</td><td>-28.54</td><td>26.70</td><td>0.27</td><td>0.01</td><td>0.00</td><td>Average</td></tr><tr><td>4</td><td>0.159</td><td>42.48</td><td>65.52</td><td>-23.04</td><td>42.20</td><td>0.27</td><td>0.01</td><td>0.00</td><td>QP</td></tr><tr><td>5</td><td>0.201</td><td>24.55</td><td>53.58</td><td>-29.03</td><td>24.23</td><td>0.29</td><td>0.03</td><td>0.00</td><td>Average</td></tr><tr><td>6</td><td>0.201</td><td>37.13</td><td>63.58</td><td>-26.45</td><td>36.81</td><td>0.29</td><td>0.03</td><td>0.00</td><td>QP</td></tr><tr><td>7</td><td>0.249</td><td>22.49</td><td>51.78</td><td>-29.29</td><td>22.15</td><td>0.31</td><td>0.03</td><td>0.00</td><td>Average</td></tr><tr><td>8</td><td>0.249</td><td>33.15</td><td>61.78</td><td>-28.63</td><td>32.81</td><td>0.31</td><td>0.03</td><td>0.00</td><td>QP</td></tr><tr><td>9*</td><td>0.396</td><td>26.80</td><td>47.95</td><td>-21.15</td><td>26.44</td><td>0.34</td><td>0.02</td><td>0.00</td><td>Average</td></tr><tr><td>10</td><td>0.396</td><td>33.38</td><td>57.95</td><td>-24.57</td><td>33.02</td><td>0.34</td><td>0.02</td><td>0.00</td><td>QP</td></tr><tr><td>11</td><td>9.552</td><td>16.36</td><td>50.00</td><td>-33.64</td><td>15.49</td><td>0.56</td><td>0.31</td><td>0.00</td><td>Average</td></tr><tr><td>12</td><td>9.552</td><td>20.77</td><td>60.00</td><td>-39.23</td><td>19.90</td><td>0.56</td><td>0.31</td><td>0.00</td><td>QP</td></tr></tbody></table>					Freq	Level	Limit	Over	Read	Factor	Cable	Aux	Remark		MHz	dBuV	dBuV	dB	Level	dB	loss	dB		1	0.150	28.88	56.00	-27.12	28.60	0.27	0.01	0.00	Average	2	0.150	44.29	66.00	-21.71	44.01	0.27	0.01	0.00	QP	3	0.159	26.98	55.52	-28.54	26.70	0.27	0.01	0.00	Average	4	0.159	42.48	65.52	-23.04	42.20	0.27	0.01	0.00	QP	5	0.201	24.55	53.58	-29.03	24.23	0.29	0.03	0.00	Average	6	0.201	37.13	63.58	-26.45	36.81	0.29	0.03	0.00	QP	7	0.249	22.49	51.78	-29.29	22.15	0.31	0.03	0.00	Average	8	0.249	33.15	61.78	-28.63	32.81	0.31	0.03	0.00	QP	9*	0.396	26.80	47.95	-21.15	26.44	0.34	0.02	0.00	Average	10	0.396	33.38	57.95	-24.57	33.02	0.34	0.02	0.00	QP	11	9.552	16.36	50.00	-33.64	15.49	0.56	0.31	0.00	Average	12	9.552	20.77	60.00	-39.23	19.90	0.56	0.31	0.00	QP
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Note 1: Level (dBUV) = Read Level (dBUV) + LISN Factor (dB) + Cable Loss (dB) + Aux (dB). 2: Over Limit (dB) = Level (dBUV) – Limit Line (dBUV).																																																																																																																																															



3.2 Radiated Emissions

3.2.1 Limit of Radiated Emissions

Radiated emissions limits (30 MHz to 1 GHz) at 3 m distance

Frequency range (MHz)	Class A Quasi-peak (dBuV/m)	Class B Quasi-peak (dBuV/m)
30 – 88	50.0	40.0
88 – 216	54.0	43.5
216 – 230	56.9	46.0
230 – 960	57.0	47.0
960 – 1000	60.0	54.0
Note: The more stringent limit applies at transition frequencies.		

Required emission limits at 3 m distance (at and above 1 GHz)

Frequency range (GHz) ⁱ	Class A Average dB(μV/m)	Class A Peak dB(μV/m)	Class B Average dB(μV/m)	Class B Peak dB(μV/m)
1 – F _M	60	80	54	74
i. The highest measurement frequency, F _M in GHz, shall be determined as per table above.				

Required highest measurement frequency for radiated emissions:

Highest internal frequency (F _x) ⁱ	Highest measurement frequency (F _M)
F _x ≤ 108 MHz	1 GHz
108 MHz < F _x ≤ 500 MHz	2 GHz
500 MHz < F _x ≤ 1 GHz	5 GHz
F _x > 1 GHz	5 x F _x up to maximum of 40GHz
i. F _x is the highest fundamental frequency generated and/or used in the ITE or digital apparatus under test.	

3.2.2 Test Procedures

Measuring below 1 GHz:

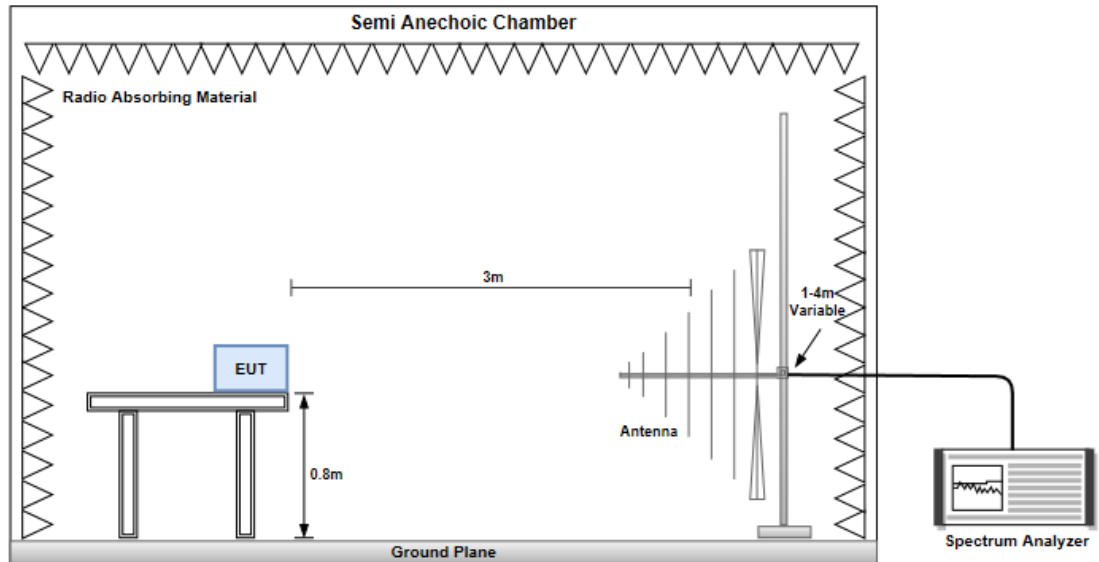
- a. Measurement is made at a semi-anechoic chamber that incorporates a turntable allowing a EUT rotation of 360°. A continuously-rotating, remotely-controlled turntable is installed at the test site to support the EUT and facilitate determination of the direction of maximum radiation for each EUT emission frequency. The EUT is placed at a height of 0.8 m test table above the ground plane.
- b. Measurement is made with the antenna positioned in both the horizontal and vertical planes of polarization. The measurement antenna is varied in height (1m ~ 4m) above the reference ground plane to obtain the maximum signal strength. Distance between EUT and antenna is 3 m.
- c. This investigation is performed with the EUT rotated 360°, the antenna height scanned between 1 m and 4 m, and the antenna rotated to repeat the measurements for both the horizontal and vertical antenna polarizations.

Measuring above 1 GHz:

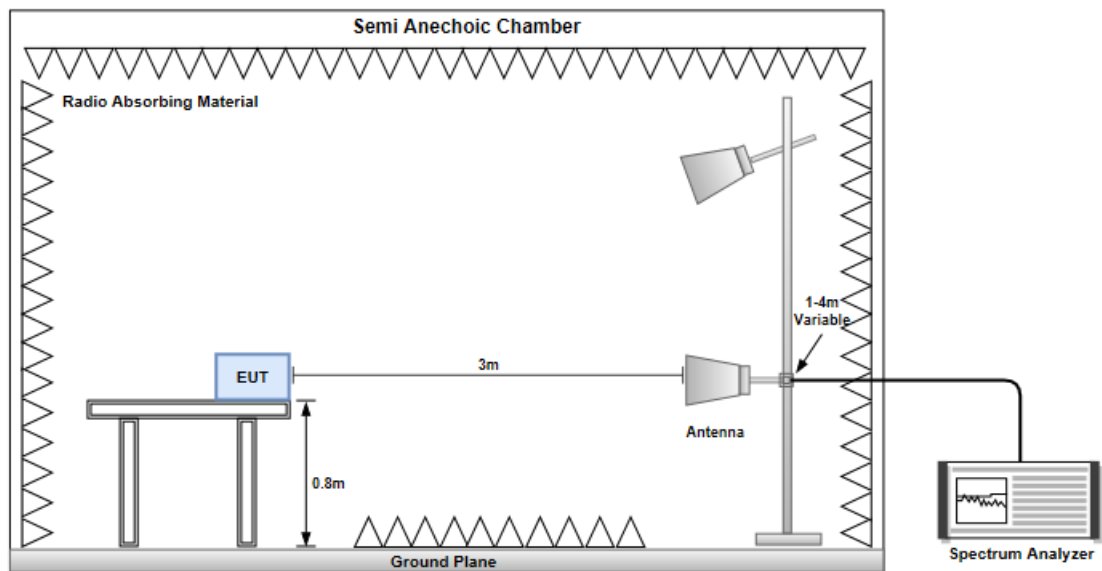
- a. Same test set up as below 1GHz radiated testing.
- b. The EUT was set 3 meters from the interference-receiving antenna which was mounted on the top of a variable height antenna tower.
- c. There should be absorber placed between the EUT and Antenna and its located size should let the test site meet CISPR16-1-4 requirement.
- d. The table was rotated 360 degrees to determine the position of the highest radiation.
- e. Set the test-receiver system to Peak Detect Function and specified bandwidth with Maximum Hold Mode.
- f. Set the Horn Antenna at 1m height, then run the turn table to get the maximum noise reading from Horizontal and Vertical polarity separately.
- g. When EUT locating on the turn-table, the Horn Antenna must be raised up and descended down, then turning around the turn-table to get the maximum noise reading of the Horizontal and Vertical polarity separately. Note the maximum raise up height is same as the top of EUT.
- h. If emission level of the EUT in peak mode was 20dB lower than average limit (that means the emission level in peak mode also complies with the limit in average mode), then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.

3.2.3 Test Setup

Radiated Emissions below 1 GHz



Radiated Emissions above 1 GHz



3.2.4 Radiated Emissions (Below 1GHz)

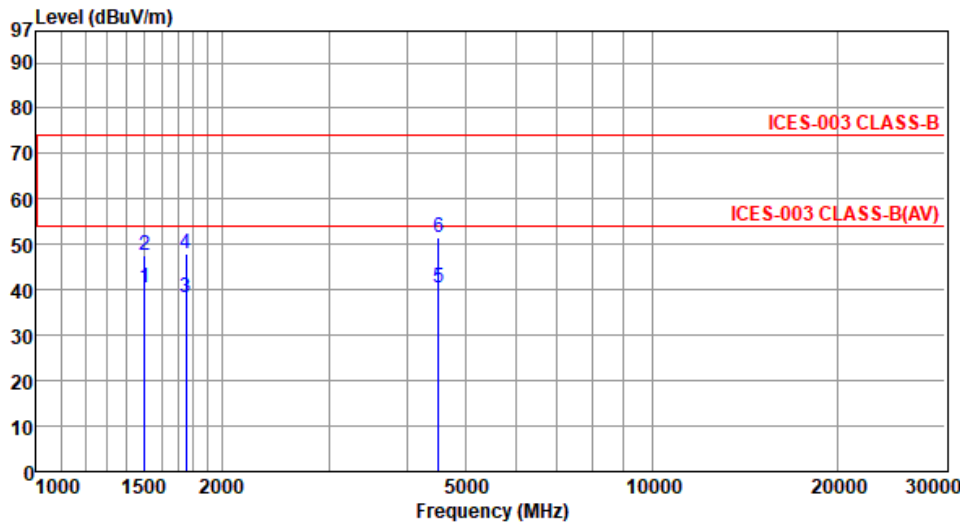
Polarization	Horizontal		Test Mode		1				
Test By :Alex Tsai Temperature(°C):24 Humidity(%):59									
<div><div><div>Level (dBUV/m)</div><div><div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div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Polarization	Vertical	Test Mode	1																																																												
Test By	:Alex Tsai	Temperature(°C):24	Humidity(%):59																																																												
<div><div><div>Level (dBuV/m)</div><div><div><div><div><div><div>80</div><div>70</div><div>60</div><div>50</div><div>40</div><div>30</div><div>20</div><div>10</div><div>0</div></div><div><div><div><div>1</div><div>2</div><div>3</div><div>4</div><div>5</div><div>6</div></div></div><div><div><div><div>30</div><div>100.</div><div>200.</div><div>300.</div><div>400.</div><div>500.</div><div>600.</div><div>700.</div><div>800.</div><div>900.</div><div>1000</div></div></div></div><div>ICES-003 CLASS-B</div></div></div><div><div>Freq.</div><div>level</div><div>Limit</div><div>Margin</div><div>SA</div><div>Factor</div><div>Remark</div><div>ANT</div><div>Turn</div></div><div><div>MHz</div><div>dBuV/m</div><div>dBuV/m</div><div>dB</div><div>reading</div><div>dB/m</div><div></div><div>High</div><div>Table</div></div><div><div>cm</div><div>deg</div></div></div><tr><td>1</td><td>42.61</td><td>33.58</td><td>40.00</td><td>-6.42</td><td>41.52</td><td>-7.94</td><td>QP</td><td>145</td><td>169</td></tr><tr><td>2</td><td>88.20</td><td>33.42</td><td>43.50</td><td>-10.08</td><td>47.19</td><td>-13.77</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>3</td><td>250.19</td><td>32.47</td><td>47.00</td><td>-14.53</td><td>41.39</td><td>-8.92</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>4</td><td>352.04</td><td>35.83</td><td>47.00</td><td>-11.17</td><td>41.65</td><td>-5.82</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>5</td><td>375.32</td><td>40.12</td><td>47.00</td><td>-6.88</td><td>45.27</td><td>-5.15</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>6</td><td>399.57</td><td>37.98</td><td>47.00</td><td>-9.02</td><td>42.42</td><td>-4.44</td><td>Peak</td><td>---</td><td>---</td></tr></div></div></div></div>				1	42.61	33.58	40.00	-6.42	41.52	-7.94	QP	145	169	2	88.20	33.42	43.50	-10.08	47.19	-13.77	Peak	---	---	3	250.19	32.47	47.00	-14.53	41.39	-8.92	Peak	---	---	4	352.04	35.83	47.00	-11.17	41.65	-5.82	Peak	---	---	5	375.32	40.12	47.00	-6.88	45.27	-5.15	Peak	---	---	6	399.57	37.98	47.00	-9.02	42.42	-4.44	Peak	---	---
1	42.61	33.58	40.00	-6.42	41.52	-7.94	QP	145	169																																																						
2	88.20	33.42	43.50	-10.08	47.19	-13.77	Peak	---	---																																																						
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4	352.04	35.83	47.00	-11.17	41.65	-5.82	Peak	---	---																																																						
5	375.32	40.12	47.00	-6.88	45.27	-5.15	Peak	---	---																																																						
6	399.57	37.98	47.00	-9.02	42.42	-4.44	Peak	---	---																																																						

Note 1: Emission level (dBuV/m) = SA reading (dBuV) + Factor* (dB/m)
*Factor includes antenna factor, cable loss and amplifier gain
2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m)

3.2.5 Radiated Emissions (Above 1GHz)

Polarization	Horizontal	Test Mode	1
Test By	:Alex Tsai	Temperature(°C):24	Humidity(%):59



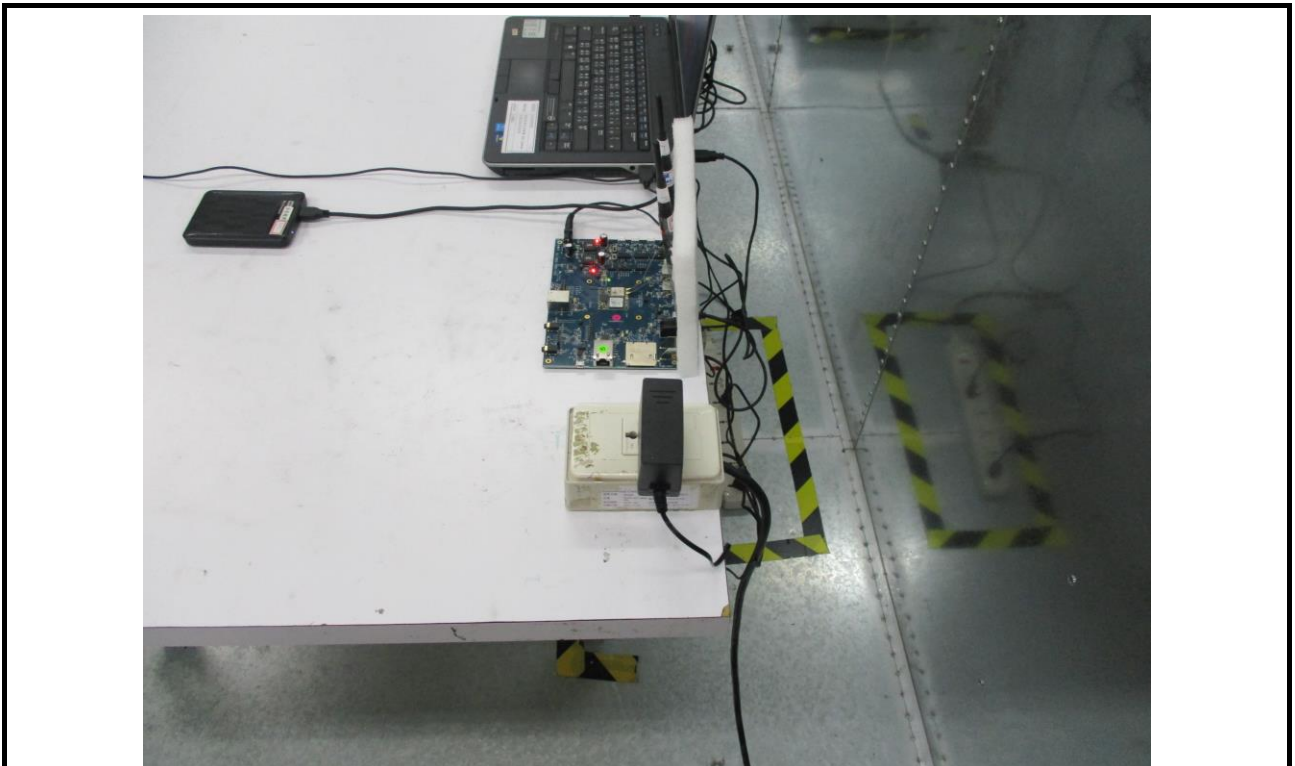
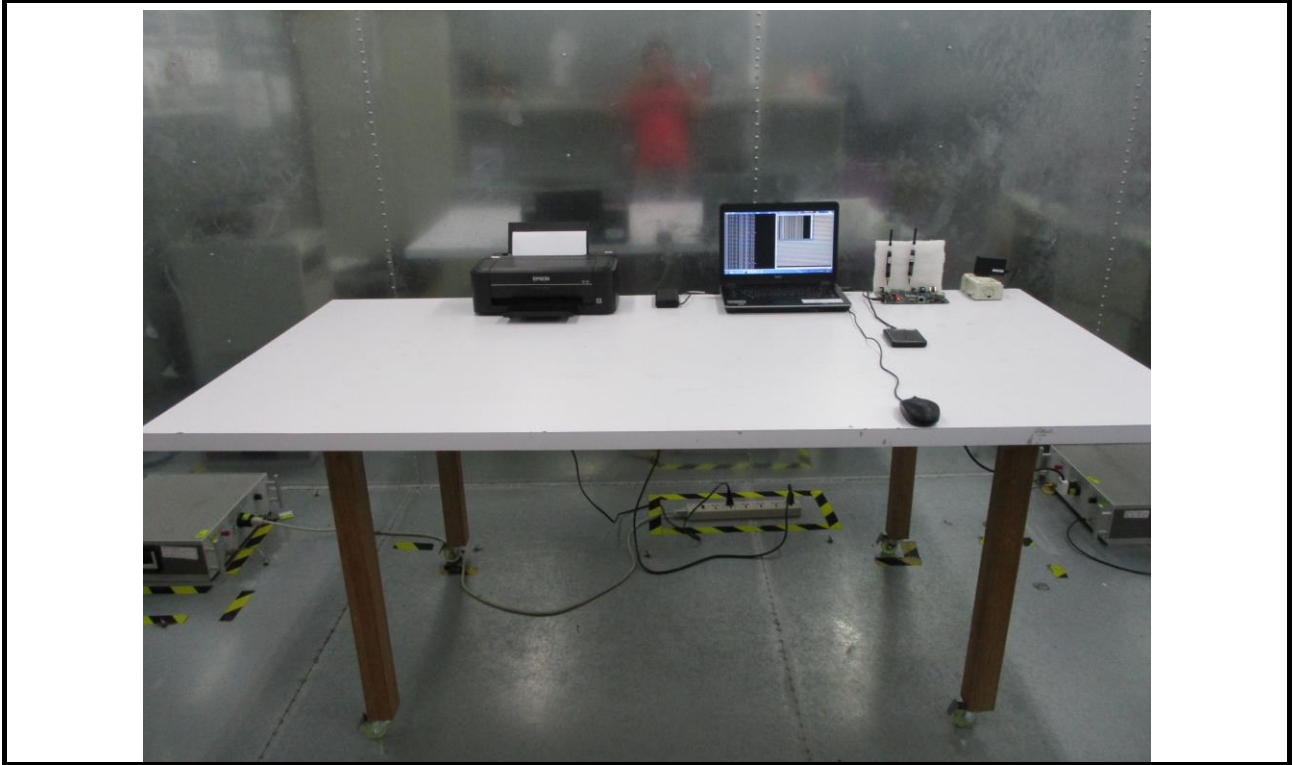
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	1500.00	40.52	54.00	-13.48	48.39	-7.87	Average	196	329
2	1500.00	47.59	74.00	-26.41	55.46	-7.87	Peak	196	329
3	1750.00	38.33	54.00	-15.67	44.27	-5.94	Average	160	326
4	1750.00	47.85	74.00	-26.15	53.79	-5.94	Peak	160	326
5	4500.00	40.27	54.00	-13.73	38.57	1.70	Average	125	182
6	4500.00	51.66	74.00	-22.34	49.96	1.70	Peak	125	182

Note 1: Emission level (dBuV/m) = SA reading (dBuV) + Factor* (dB/m)
 *Factor includes antenna factor, cable loss and amplifier gain
 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m)

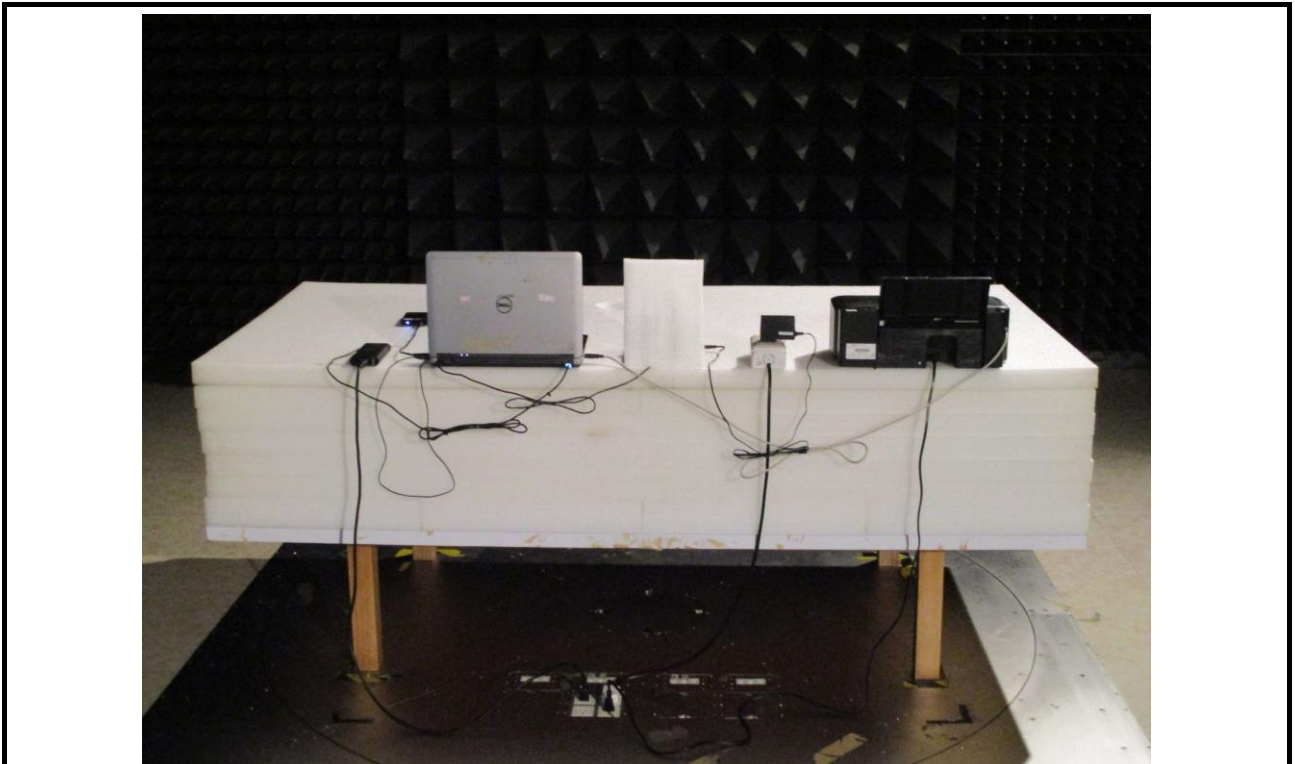
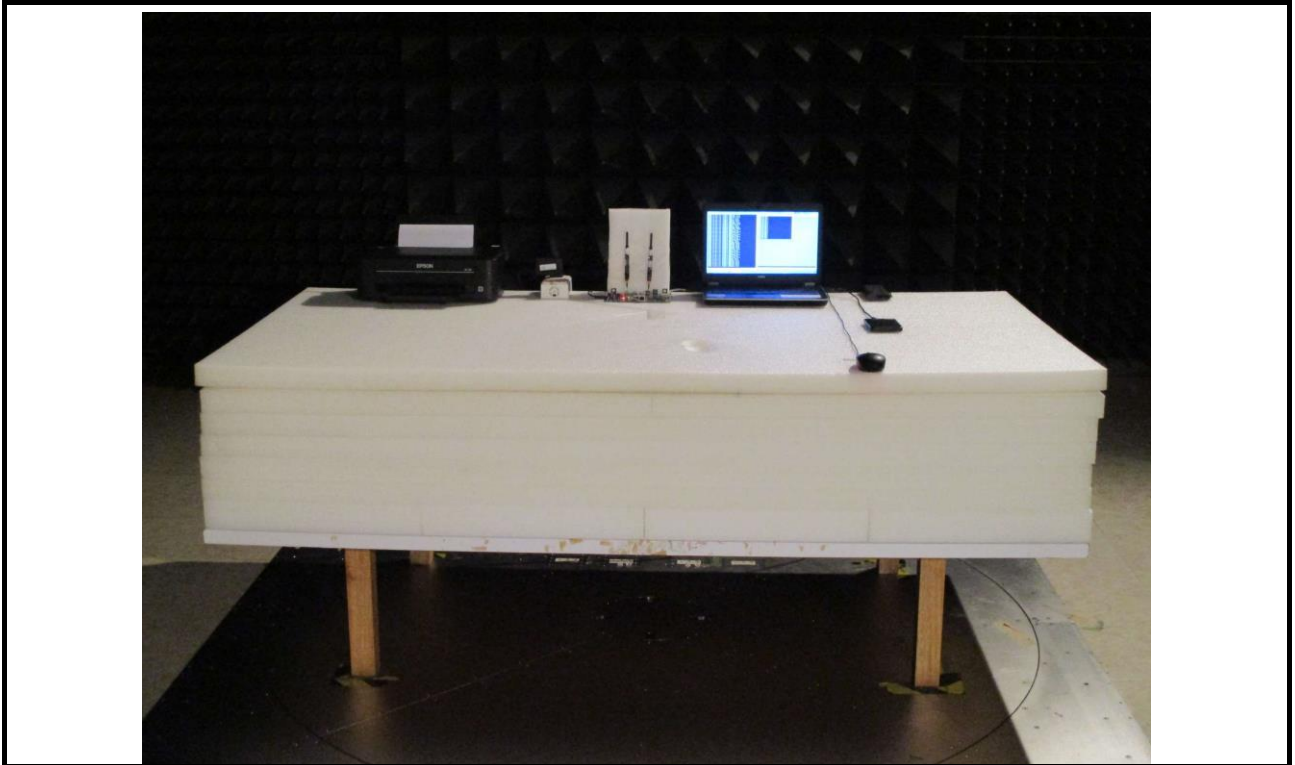
Polarization	Vertical	Test Mode	1
Test By	:Alex Tsai	Temperature(°C):24	Humidity(%):59
<div><div>Level (dBuV/m)</div><div><div><div><div><div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div>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4 Photographs of the Test Configuration

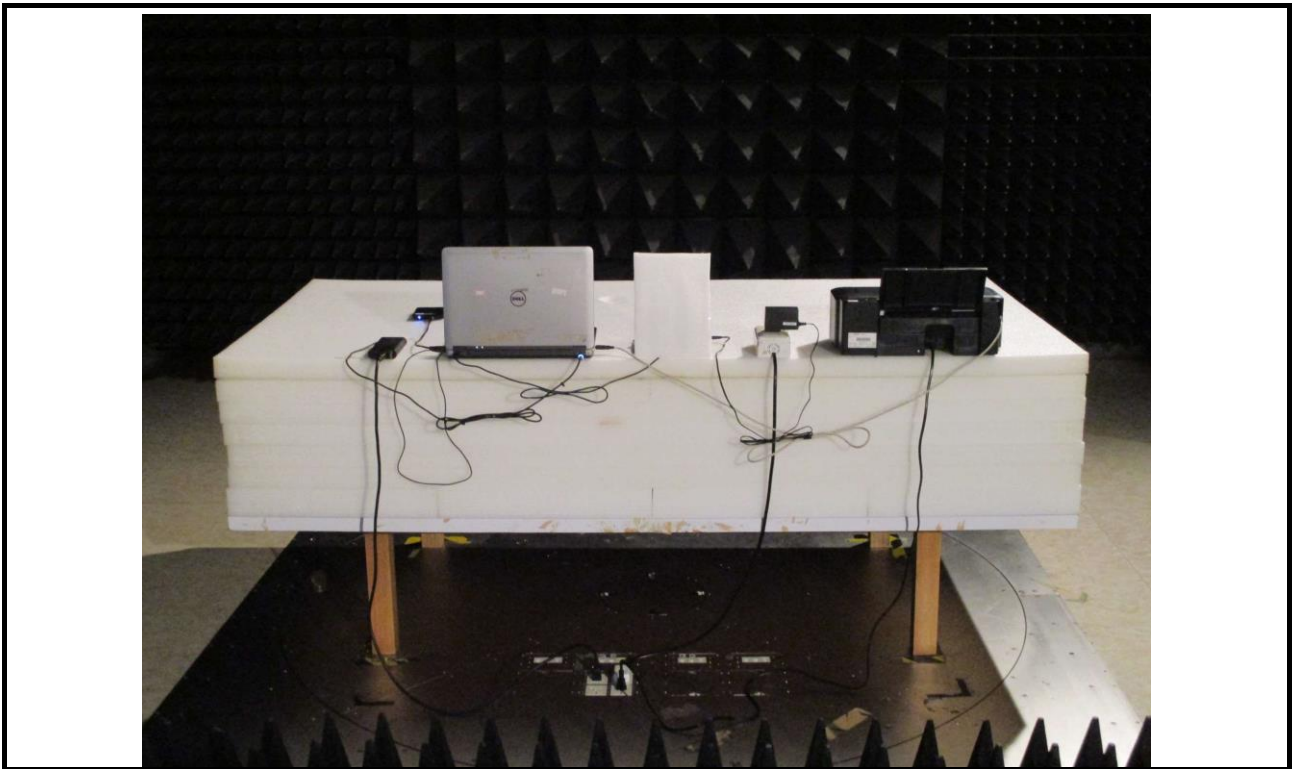
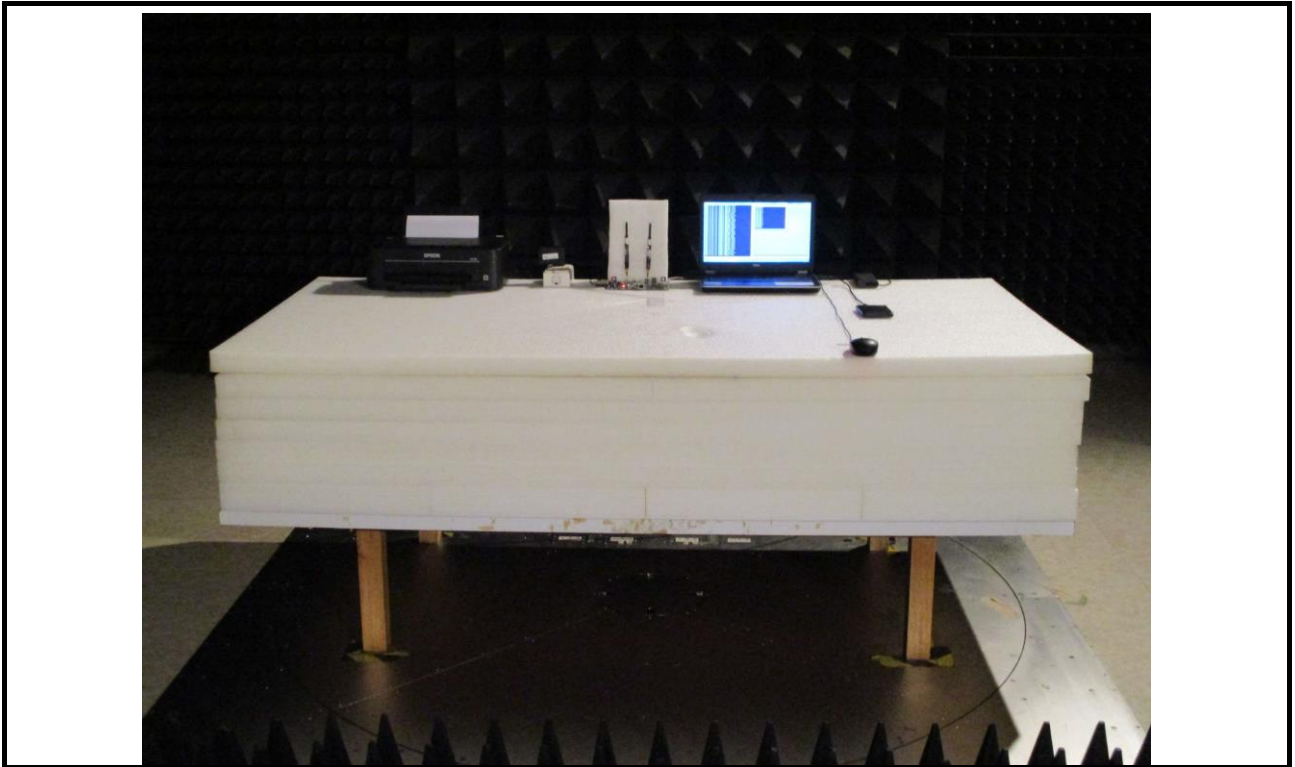
Conducted Emission Test



Radiated Emission Below 1GHz Test



Radiated Emission Above 1GHz Test



5 Test laboratory information

Established in 2012, ICC provides foremost EMC & RF Testing and advisory consultation services by our skilled engineers and technicians. Our services employ a wide variety of advanced edge test equipment and one of the widest certification extents in the business.

International Certification Corporation (EMC and Wireless Communication Laboratory), it is our definitive objective is to institute long term, trust-based associations with our clients. The expectation we set up with our clients is based on outstanding service, practical expertise and devotion to a certified value structure. Our passion is to grant our clients with best EMC / RF services by oriented knowledgeable and accommodating staff.

Our Test sites are located at Linkou District and Kwei Shan District. Location map can be found on our website <http://www.icertifi.com.tw>.

Linkou

Tel: 886-2-2601-1640

No.30-2, Ding Fwu Tsuen, Lin Kou
District, New Taipei City, Taiwan
(R.O.C.)

Kwei Shan

Tel: 886-3-271-8666

No.3-1, Lane 6, Wen San 3rd
St., Kwei Shan Dist., Tao Yuan
City 33381, Taiwan (R.O.C.)
No.2-1, Lane 6, Wen San 3rd
St., Kwei Shan Dist., Tao Yuan
City 33381, Taiwan (R.O.C.)

Kwei Shan Site II

Tel: 886-3-271-8640

No.14-1, Lane 19, Wen San 3rd
St., Kwei Shan Dist., Tao Yuan
City 33381, Taiwan (R.O.C.)

If you have any suggestion, please feel free to contact us as below information.

Tel: 886-3-271-8666

Fax: 886-3-318-0345

Email: ICC_Service@icertifi.com.tw

==END==