

EMI Test Report

Equipment : Sentrius™ BT510
Bluetooth v5 IP67 Multi Sensor

Model No. : BT510

Brand Name : Laird

Applicant : Laird Connectivity

Address : W66N220 Commerce Court, Cedarburg,
Wisconsin 53012, USA

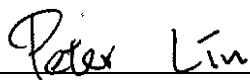
Standard : CISPR 32:2015/COR1:2016, Class B
AS/NZS CISPR 32:2015, Class B

Received Date : Sep. 16, 2019

Tested Date : Oct. 07 ~ Oct. 08, 2019

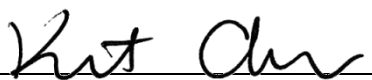
We, International Certification Corp., would like to declare that the tested sample has been evaluated and in compliance with the requirement of the above standards. It may be duplicated completely for legal use with the approval of the applicant. It shall not be reproduced except in full without the written approval of our laboratory.

Reviewed by:



Peter Lin / Supervisor

Approved by:



Kent Chen / Assistant Manager



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Release Record

Report No.	Version	Description	Issued Date
AI991601	Rev. 01	Initial issue	Dec. 10, 2019

Summary of Test Result

Emission Tests				
Ref. Std. Clause	Test Standard	Test Items	Measured	Result
A.3	CISPR 32:2015/COR1:2016, Class B AS/NZS CISPR 32:2015, Class B	Conducted Emissions from the AC mains power ports	-12.55dB AV@ 0.363MHz.	Pass
A.3	CISPR 32:2015/COR1:2016, Class B AS/NZS CISPR 32:2015, Class B	Asymmetric Mode Conducted Emissions	Note ¹	N/A
A.2	CISPR 32:2015/COR1:2016, Class B AS/NZS CISPR 32:2015, Class B	Radiated Emissions	-5.47dB PK @ 288.02MHz.	Pass
A.3	CISPR 32:2015/COR1:2016, Class B AS/NZS CISPR 32:2015, Class B	Conducted Differential Voltage Emissions	Note ²	N/A
<p>N/A means Not Applicable. Note¹: The EUT w/o telecom port. Note²: The EUT w/o tuner port.</p>				

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

1.1.1 Feature of Equipment under Test (EUT)

Power Supply Type	3Vdc from host
Highest Frequency of the Internal Sources	2.4GHz

1.1.2 Accessories

N/A

1.2 Test Equipment and Calibration Data

Test Item	Conducted Emission				
Test Site	Conduction room 1 / (CO01-WS)				
Test Date	Oct. 08, 2019				
Instrument	Manufacturer	Model No.	Serial No.	Calibration Date	Calibration Until
Receiver	R&S	ESR3	101657	Jan. 08, 2019	Jan. 07, 2020
LISN	R&S	ENV216	101579	Mar. 08, 2019	Mar. 07, 2020
LISN (Support Unit)	SCHWARZBECK	Schwarzbeck 8127	8127-666	Nov. 29, 2018	Nov. 28, 2019
RF Cable-CON	Woken	CFD200-NL	CFD200-NL-001	Oct. 22, 2019	Oct. 21, 2020
50 ohm terminal (Support Unit)	NA	50	04	May 28, 2019	May 27, 2020
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)				
Test Date	Oct. 07, 2019				
Instrument	Manufacturer	Model No.	Serial No.	Calibration Date	Calibration Until
Receiver	Agilent	N9038A	MY53290044	Sep. 17, 2019	Sep. 16, 2020
Loop Antenna	R&S	HFH2-Z2	100330	Nov. 09, 2018	Nov. 08, 2019
Bilog Antenna	SCHWARZBECK	VULB9168	VULB9168-523	Dec. 03, 2018	Dec. 02, 2019
Preamplifier	EMC	EMC02325	980194	Sep. 18, 2019	Sep. 17, 2020
LF cable 1M	EMC	EMCCFD400-NM-N M-1000	160501	Oct. 22, 2018	Oct. 21, 2019
LF cable 3M	Woken	CFD400NL-LW	CFD400NL-003	Oct. 22, 2018	Oct. 21, 2019
LF cable 10M	EMCC	CFD400-E	CFD400-001	Oct. 22, 2018	Oct. 21, 2019
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)				
Test Date	Oct. 08, 2019				
Instrument	Manufacturer	Model No.	Serial No.	Calibration Date	Calibration Until
Spectrum Analyzer	Agilent	N9010A	MY53400091	Nov. 07, 2018	Nov. 06, 2019
Horn Antenna 1G-18G	SCHWARZBECK	BBHA 9120 D	BBHA 9120 D 1095	Sep. 26, 2019	Sep. 25, 2020
Preamplifier	Agilent	83017A	MY39501309	Sep. 24, 2019	Sep. 23, 2020
RF Cable	EMC	EMC105-SM-SM-8000	180512	Oct. 22, 2018	Oct. 21, 2019
RF Cable	HUBER+SUHNER	SUCOFLEX104	MY16018/4	Oct. 22, 2018	Oct. 21, 2019
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:

CISPR 32:2015/COR1:2016, Class B
AS/NZS CISPR 32:2015, Class B

1.4 Deviation from Test Standard and Measurement Procedure

None

1.5 Measurement Uncertainty

ISO/IEC 17025 requires that an estimate of the measurement uncertainties associated with the emissions test results be included in the report. 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 from the AC mains power ports	150kHz ~ 30MHz	± 2.90 dB
Radiated Emissions	30MHz ~ 1GHz	± 4.32 dB
	Above 1GHz	± 4.57 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 Condition

Test Item	Test Site	Ambient Condition	Tested By
Conducted Emissions from the AC mains power ports	CO01-WS	23°C / 61%	Alex Tsai
Radiated Emissions	03CH02-WS	23°C / 63-64%	Brad Wu

2.2 The Worst Case Measurement Configuration

The EUT was pretested with 3 orientations placed on the table for the radiated emission measurement – X, Y, and Z-axis. The **Z-axis** result was found as the worst case and was shown in this report.

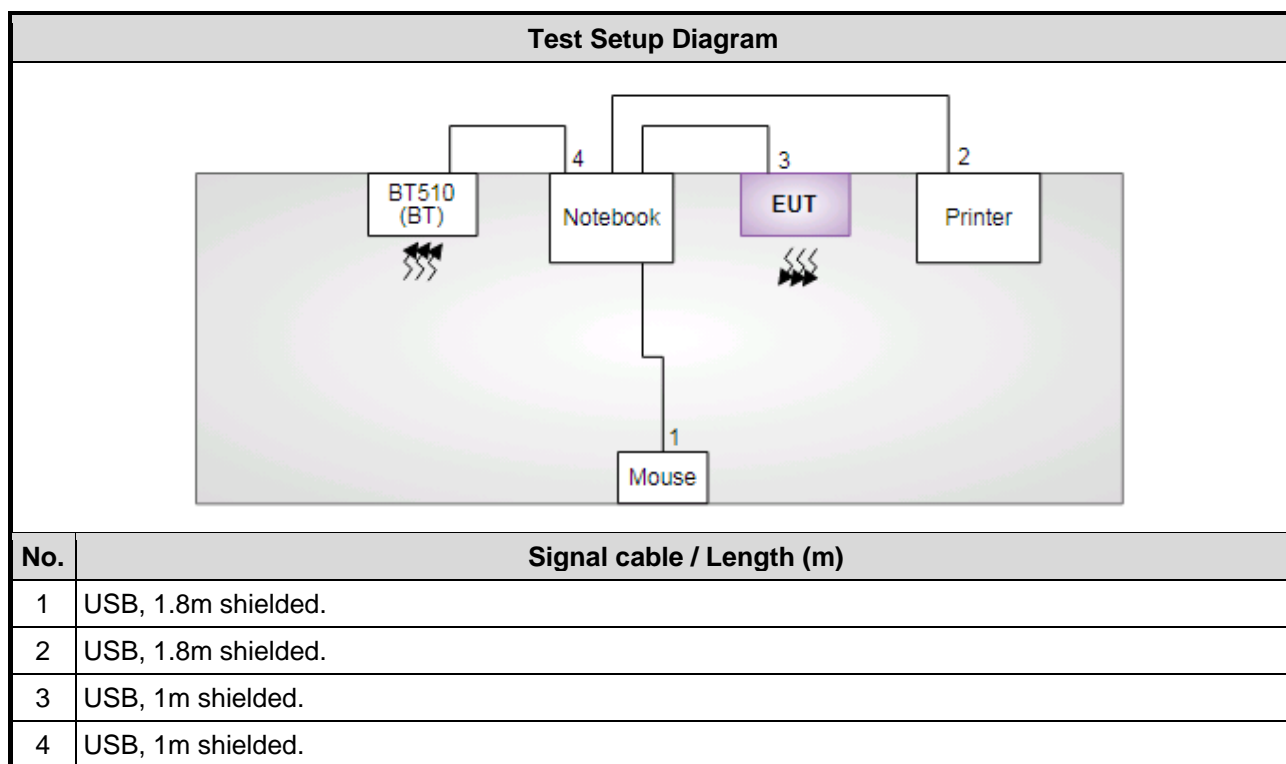
Radiation Pretest Mode	
Pretest Mode	Operating Description
1	BT Link, EUT: Z-axis with Notebook, 230V/50Hz
2	BT Link, EUT: Z-axis with Notebook, 110V/60Hz
3	Standby mode, EUT: Z-axis with Notebook, 230V/50Hz
For Pretest Mode 3 is the worst case and only its data was record in this test report.	

The Worst Test Configurations	
Conducted Emissions from the AC mains power ports	
Test Mode	Operating Description
1	BT Link, EUT: X-axis with Notebook, 230V/50Hz
2	BT Link, EUT: X-axis with Notebook, 110V/60Hz
Radiated Emissions	
Test Mode	Operating Description
1	BT Link, EUT: Z-axis with Notebook, 230V/50Hz

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	Mouse	DELL	MS111-L	2C3-00MM	---
4	Sentrius™ BT510 Bluetooth v5 IP67 Multi Sensor	Laird	BT510	---	Provided by applicant.

2.4 Test Setup Chart



2.5 Test Software and Operating Condition

- To enable all function of test system.
- The support notebook executed "KM Player" to play colorbar video.
- The support notebook executed "WinEMC.exe" to send "H" patterns to the printer.
- The support notebook executed "Uwterminal.exe" to link BT function of EUT via USB cable

3 Emission Tests Results

3.1 Conducted Emissions from the AC mains power ports

3.1.1 Limits of Conducted Emissions from the AC mains power ports

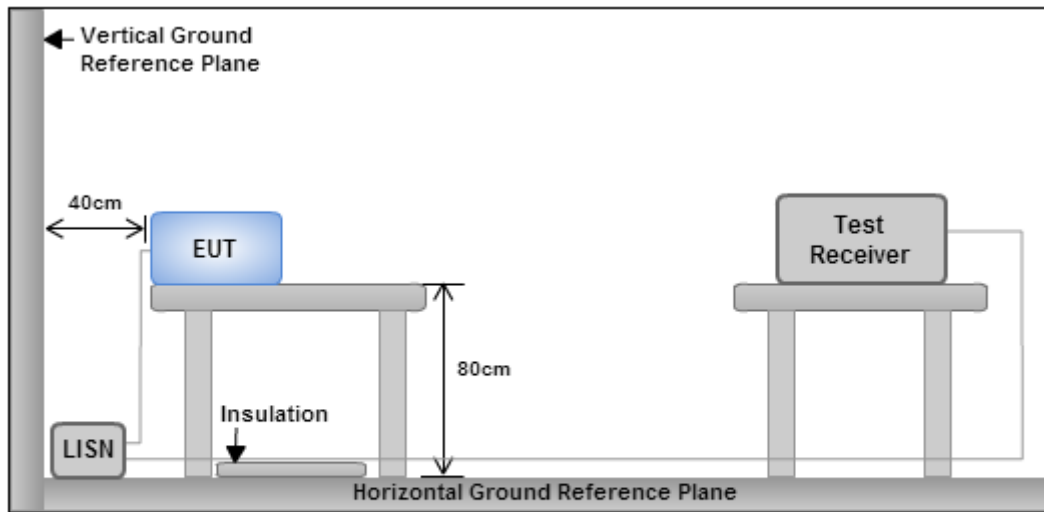
Frequency range (MHz)	Limits values (dB μ V)			
	Class A		Class B	
	Quasi-peak	Average	Quasi-peak	Average
0.15 to 0,50	79	66	66 to 56 *	56 to 46 *
0,50 to 5	73	60	56	46
5 to 30	73	60	60	50

Note 1: “*” Decreasing linearly with the logarithm of the frequency.
 Note 2: If the limits for the average detector are met when using the quasi-peak detector, then the limits for the measurements with the average detector are considered to be met.
 Note 3: The higher value measured with and without the outer conductor screen of the antenna terminal connected to earth is considered.

3.1.2 Test Procedures

- The EUT was placed on a desk 0.8 meters height from the metal ground plane and 0.4 meter from the conducting wall of the shielding room and it was kept at least 0.8 meters from any other grounded conducting surface.
- A thickness of ≤ 0.15 m insulation should be placed between local AE and associated cabling and the RGP.
- Connect EUT to the power mains through a line impedance stabilization network (LISN).
- All the support units are connecting 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 frequency range from 150 kHz to 30 MHz was searched.
- Set the test-receiver system to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

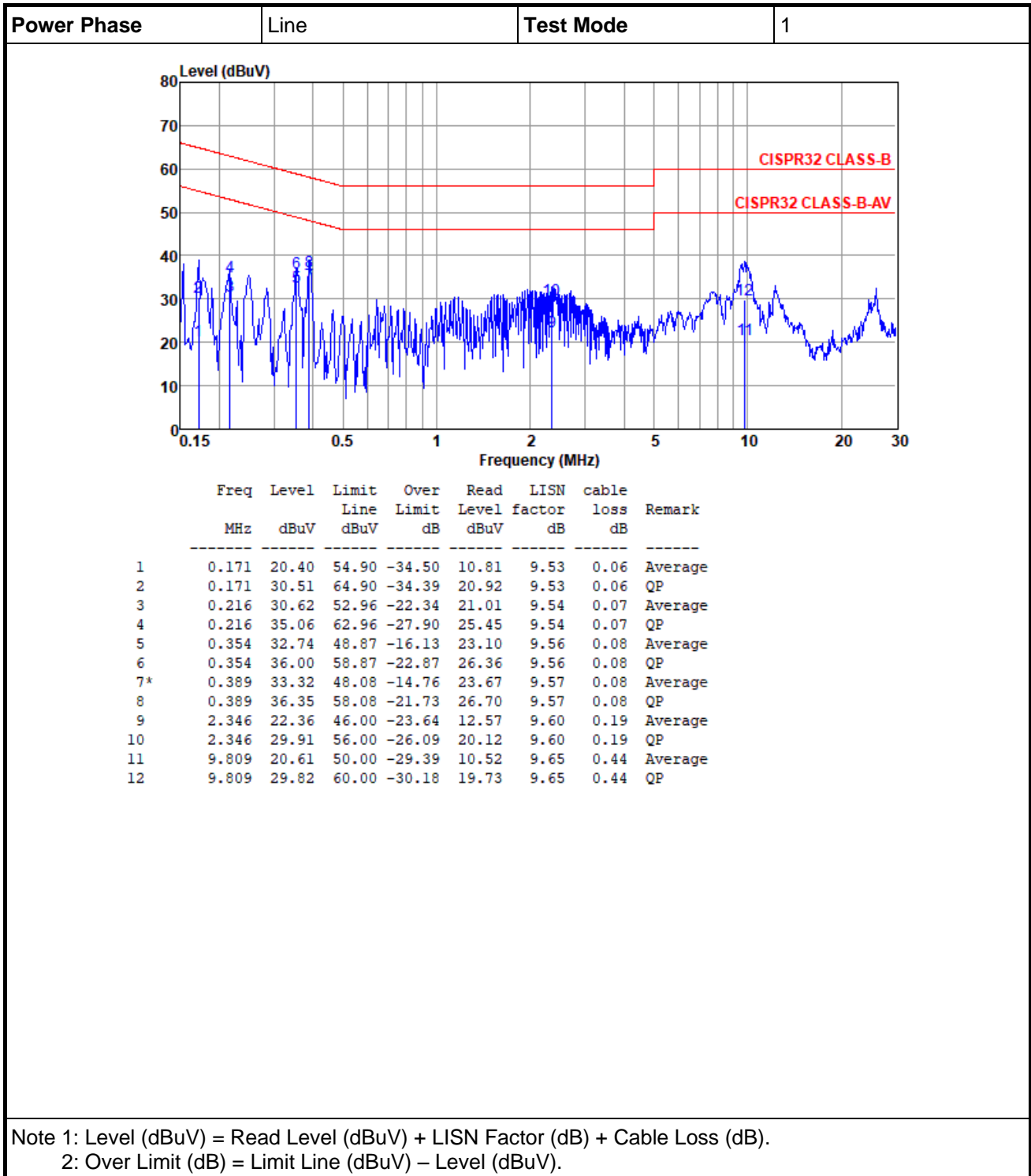
3.1.3 Test Setup



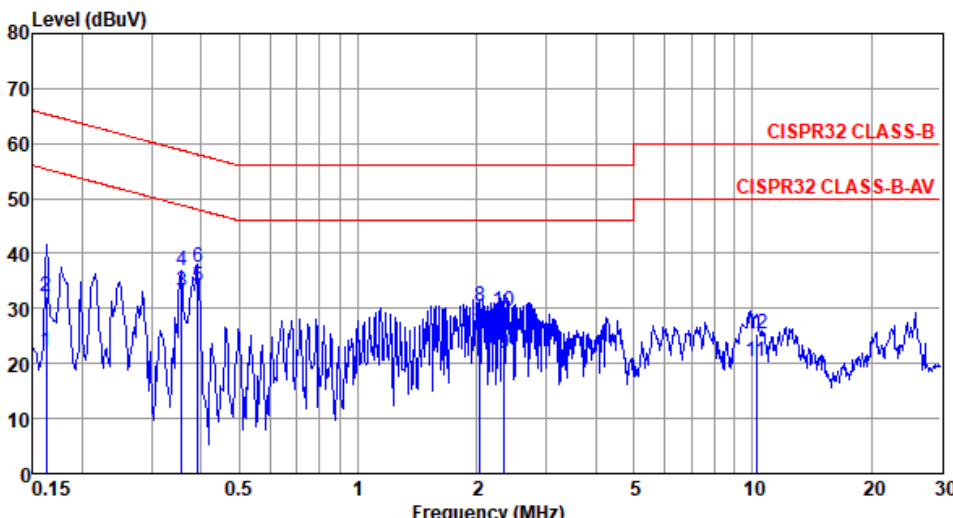
Note: 1. Support units were connected to second LISN.

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 from the AC mains power ports

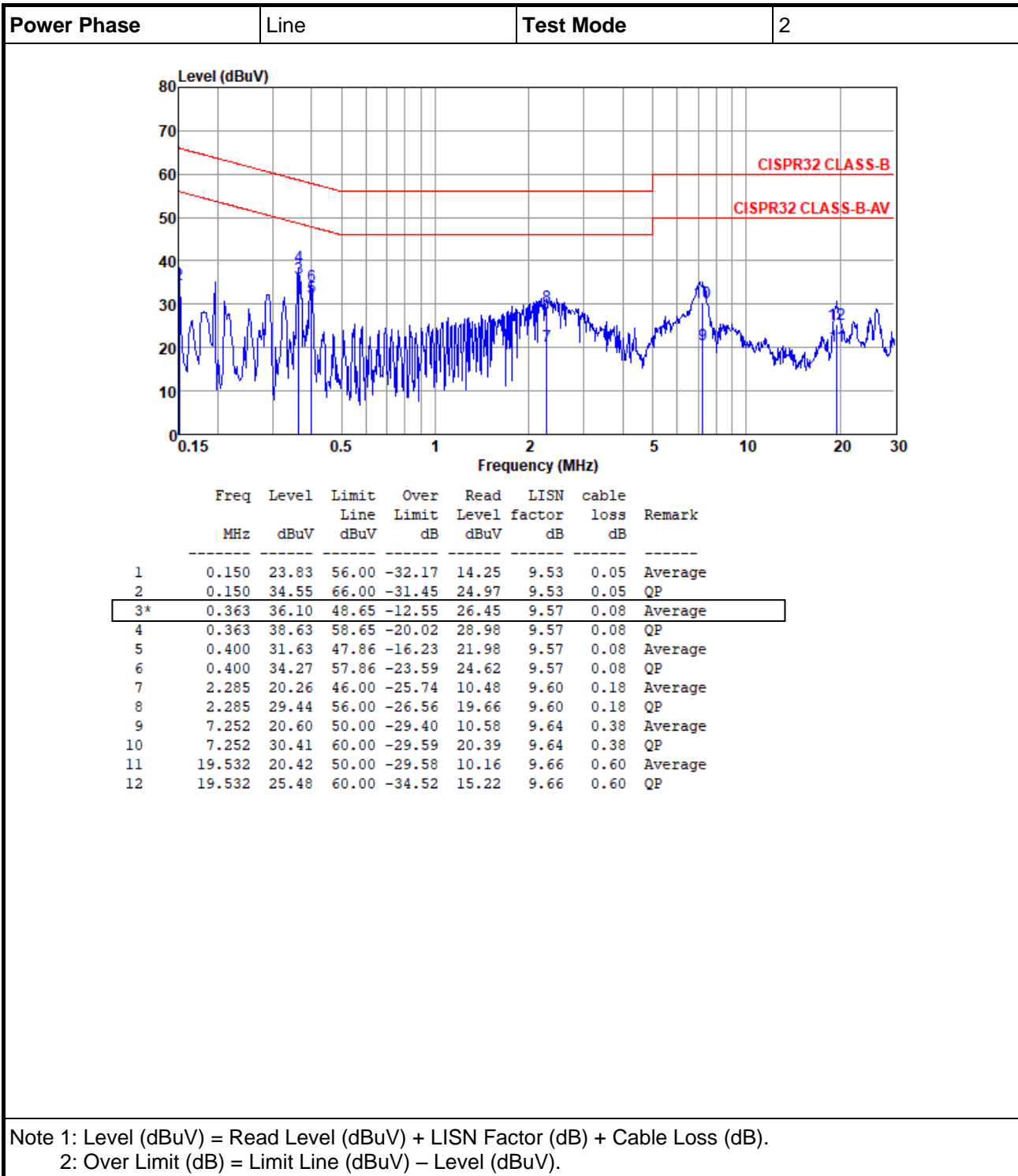


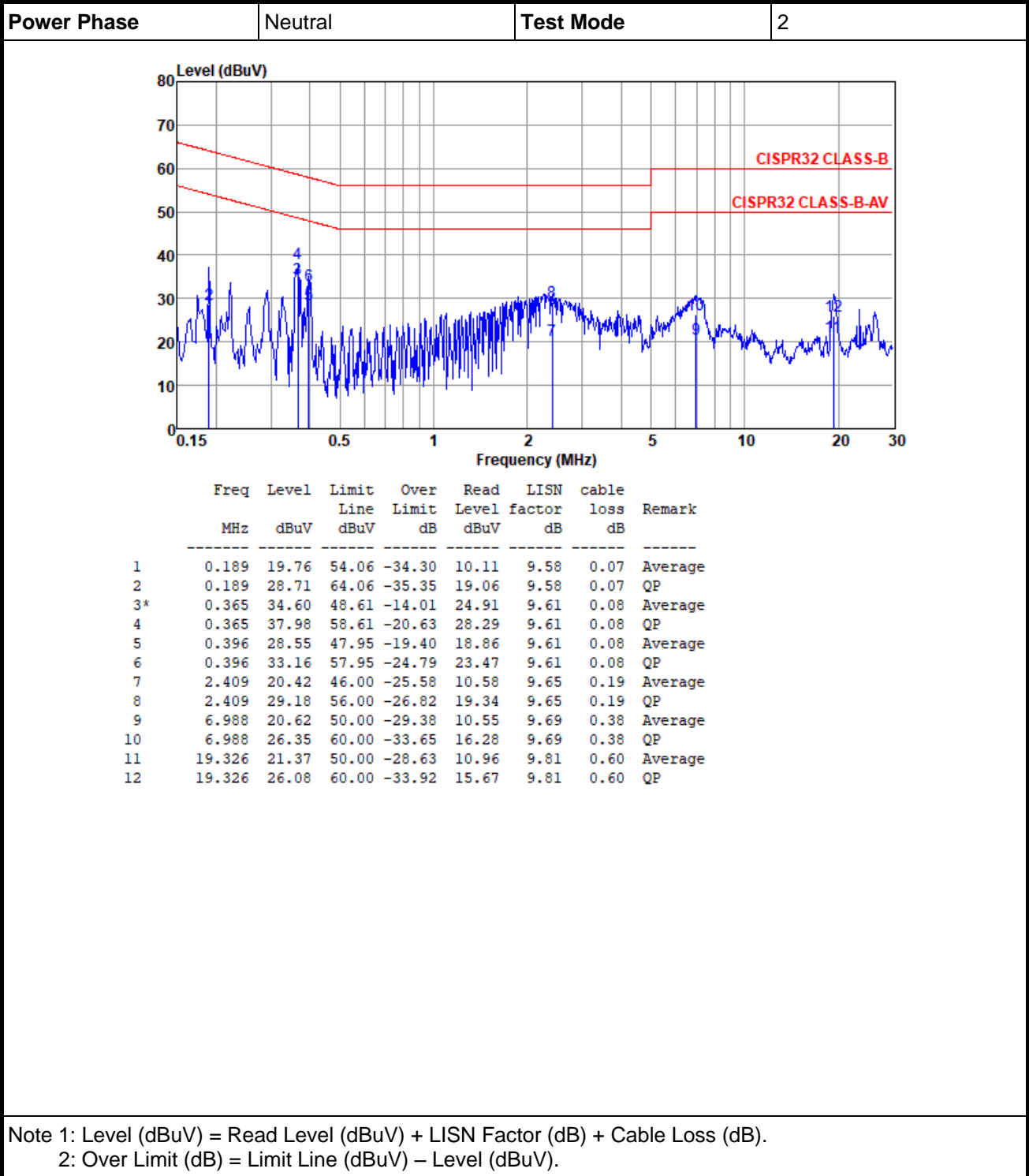
Power Phase		Neutral		Test Mode		1	
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	Freq MHz	Level dBuV	Limit Line dBuV	Over Limit dB	Read Level dBuV	LISN factor dB	cable loss dB	Remark
1	0.162	22.11	55.34	-33.23	12.48	9.57	0.06	Average
2	0.162	32.27	65.34	-33.07	22.64	9.57	0.06	QP
3	0.358	33.06	48.78	-15.72	23.37	9.61	0.08	Average
4	0.358	37.00	58.78	-21.78	27.31	9.61	0.08	QP
5*	0.393	33.87	47.99	-14.12	24.18	9.61	0.08	Average
6	0.393	37.64	57.99	-20.35	27.95	9.61	0.08	QP
7	2.033	25.50	46.00	-20.50	15.69	9.65	0.16	Average
8	2.033	30.39	56.00	-25.61	20.58	9.65	0.16	QP
9	2.346	21.94	46.00	-24.06	12.10	9.65	0.19	Average
10	2.346	29.54	56.00	-26.46	19.70	9.65	0.19	QP
11	10.233	20.28	50.00	-29.72	10.13	9.71	0.44	Average
12	10.233	25.40	60.00	-34.60	15.25	9.71	0.44	QP

Note 1: Level (dBuV) = Read Level (dBuV) + LISN Factor (dB) + Cable Loss (dB).
 2: Over Limit (dB) = Limit Line (dBuV) – Level (dBuV).





3.2 Radiated Emissions

3.2.1 Limit of Radiated Emissions

Frequency Range (MHz)	Class A		Class B	
	10m	3m	10m	3m
	Quasi-peak limits (dB μ V/m)			
30 to 230	40	50	30	40
230 to 1000	47	57	37	47

Note 1: The lower limit shall apply at the transition frequency.
Note 2: Additional provisions may be required for cases where interference occurs.

Frequency range (GHz)	Class A (3 m)		Class B (3 m)	
	Average limit (dB μ V/m)	Peak limit (dB μ V/m)	Average limit (dB μ V/m)	Peak limit (dB μ V/m)
1 to 3	56	76	50	70
3 to 6	60	80	54	74

Note 1: The lower limit shall apply at the transition frequency.
Note 2: Additional provisions may be required for cases where interference occurs.

For an unintentional radiator is shown in the table below.

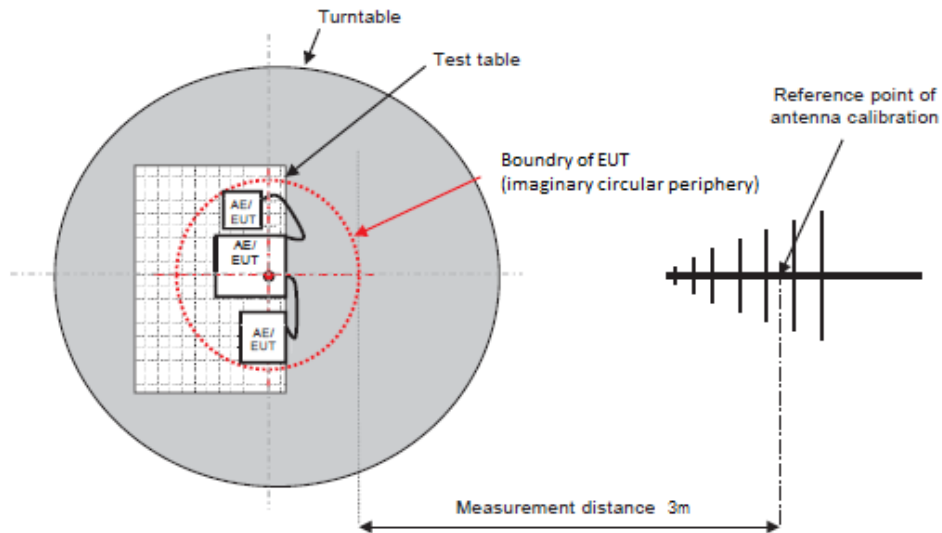
The highest internal source of an EUT is defined as the highest frequency generated or used within the EUT or on which the EUT operates or tunes.	Upper frequency of measurement range
Below 108 MHz	1 GHz
108 MHz to 500 MHz	2 GHz
500 MHz to 1 GHz	5 GHz
Above 1 GHz	5 times the highest frequency or 6 GHz, whichever is less.

3.2.2 Test Procedures

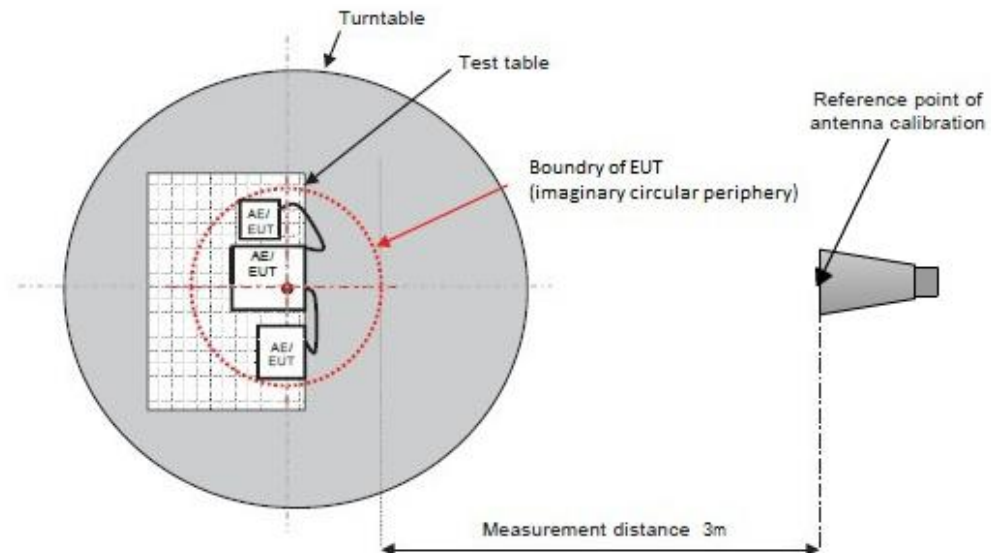
- a. The EUT was placed on a rotatable table top with a height of 0.8 meters which is placed on the ground plane.
- b. A thickness of $\leq 0.15\text{m}$ insulation should be placed between local AE and associated cabling and the RGP.
- c. The EUT received DC power source from the outlet socket under the turntable. All support equipment power received from another socket under the turntable.
- d. The EUT and local AE shall be arranged in the most compact practical arrangement within the test volume. The central point of the arrangement shall be positioned at the centre of the turntable. The measurement distance is the shortest horizontal distance between an imaginary circular periphery just encompassing this arrangement and calibration point of the antenna.
- e. The table was rotated 360 degrees to determine the position of the highest radiation.
- f. The antenna is a half wave dipole and its height is varied between one meter and four meters above ground to find the maximum value of the field strength both horizontal polarization and vertical polarization of the antenna are set to make the measurement.
- g. For each suspected emission the EUT was arranged to its worst case and then tune the antenna tower (from 1 to 4 meters) and turn table (from 0 to 360 degrees) to find the maximum reading.
- h. Set the test-receiver system to Peak Detect Function and specified bandwidth with Maximum Hold Mode.
- i. If the emission level of the EUT in peak mode was 2 dB lower than the limit specified, then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions which do not have 2 dB margin will be repeated one by one using the quasi-peak method and reported.

3.2.3 Test Setup

Radiated Emissions below 1 GHz

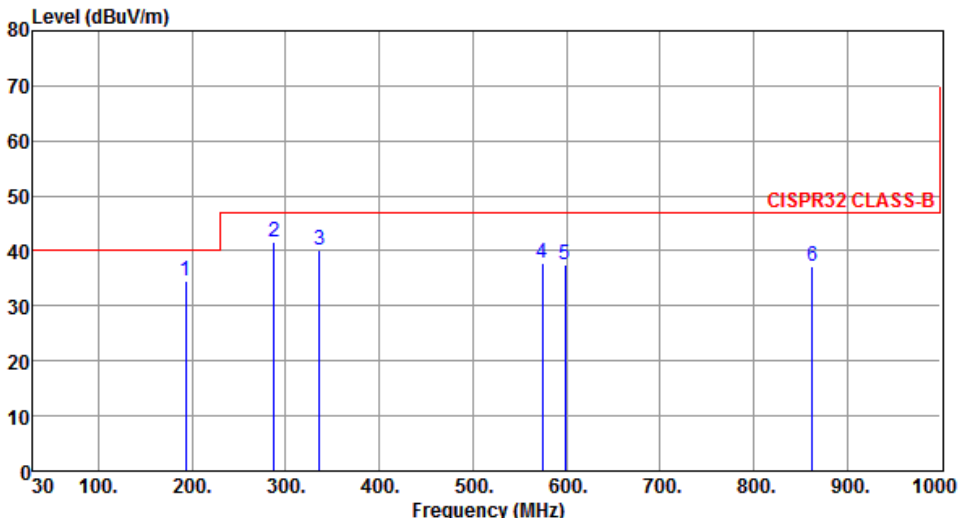


Radiated Emissions above 1 GHz



3.2.4 Radiated Emissions (Below 1GHz)

Polarization	Horizontal			Test Mode		1			
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The graph shows the radiated emission levels in dBuV/m across a frequency range from 30 MHz to 1000 MHz. A red line represents the CISPR32 CLASS-B limit, which is 40 dBuV/m from 30 MHz to 200 MHz, 47 dBuV/m from 200 MHz to 1000 MHz, and 70 dBuV/m above 1000 MHz. Six emission peaks are identified and labeled with numbers 1 through 6. The peak levels are approximately 34.41, 41.53, 40.17, 37.92, 37.49, and 37.06 dBuV/m at frequencies of 192.96, 288.02, 335.70, 574.17, 598.42, and 863.23 MHz respectively.

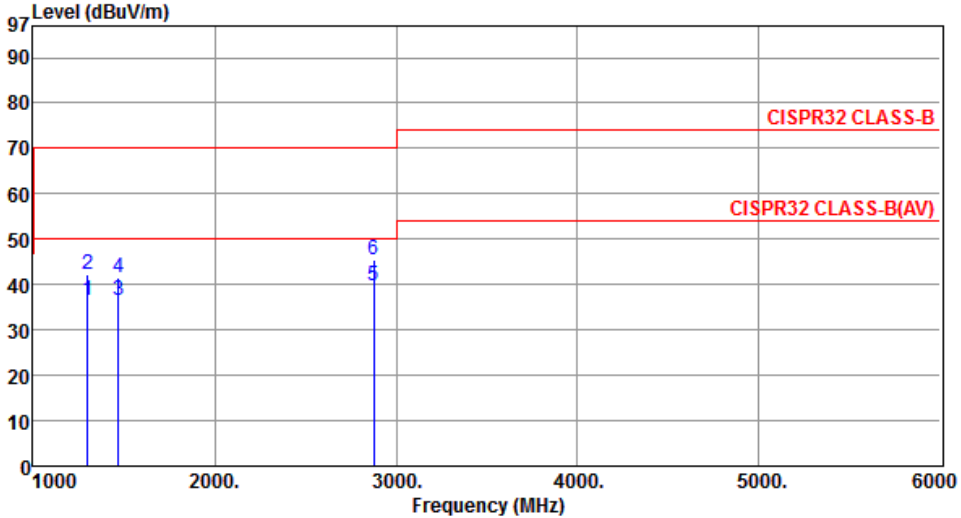
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	192.96	34.41	40.00	-5.59	43.91	-9.50	Peak	---	---
2	288.02	41.53	47.00	-5.47	48.90	-7.37	Peak	---	---
3	335.70	40.17	47.00	-6.83	46.21	-6.04	QP	100	174
4	574.17	37.92	47.00	-9.08	38.55	-0.63	Peak	---	---
5	598.42	37.49	47.00	-9.51	37.43	0.06	Peak	---	---
6	863.23	37.06	47.00	-9.94	32.52	4.54	Peak	---	---

Note 1: Emission level (dBuV/m) = SA reading (dBuV) + Factor (dB).
 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Polarization	Vertical	Test Mode	1																																																																												
<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>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><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><div>CISPR32 CLASS-B</div></div></div></div></div></div></div><div><table><tr><th></th><th>Freq. MHz</th><th>Emission level dBuV/m</th><th>Limit dBuV/m</th><th>Margin dB</th><th>SA reading dBuV</th><th>Factor dB</th><th>Remark</th><th>ANT High cm</th><th>Turn Table deg</th></tr><tr><td>1</td><td>40.67</td><td>31.06</td><td>40.00</td><td>-8.94</td><td>39.09</td><td>-8.03</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>2</td><td>142.52</td><td>28.27</td><td>40.00</td><td>-11.73</td><td>36.30</td><td>-8.03</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>3</td><td>191.99</td><td>30.83</td><td>40.00</td><td>-9.17</td><td>40.33</td><td>-9.50</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>4</td><td>337.49</td><td>36.11</td><td>47.00</td><td>-10.89</td><td>42.11</td><td>-6.00</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>5</td><td>538.28</td><td>34.50</td><td>47.00</td><td>-12.50</td><td>35.89</td><td>-1.39</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>6</td><td>607.15</td><td>35.73</td><td>47.00</td><td>-11.27</td><td>35.36</td><td>0.37</td><td>Peak</td><td>---</td><td>---</td></tr></table></div></div></div></div></div></div></div>											Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg	1	40.67	31.06	40.00	-8.94	39.09	-8.03	Peak	---	---	2	142.52	28.27	40.00	-11.73	36.30	-8.03	Peak	---	---	3	191.99	30.83	40.00	-9.17	40.33	-9.50	Peak	---	---	4	337.49	36.11	47.00	-10.89	42.11	-6.00	Peak	---	---	5	538.28	34.50	47.00	-12.50	35.89	-1.39	Peak	---	---	6	607.15	35.73	47.00	-11.27	35.36	0.37	Peak	---	---
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg																																																																						
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Note 1: Emission level (dBuV/m) = SA reading (dBuV) + Factor (dB).																																																																															
2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).																																																																															

3.2.5 Radiated Emissions (Above 1GHz)

Polarization	Horizontal			Test Mode		1			
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	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	1300.54	36.63	50.00	-13.37	43.59	-6.96	Average	100	114
2	1300.54	42.26	70.00	-27.74	49.22	-6.96	Peak	100	114
3	1472.20	36.45	50.00	-13.55	42.67	-6.22	Average	100	74
4	1472.20	41.68	70.00	-28.32	47.90	-6.22	Peak	100	74
5	2878.76	39.86	50.00	-10.14	40.68	-0.82	Average	100	308
6	2878.76	45.40	70.00	-24.60	46.22	-0.82	Peak	100	308

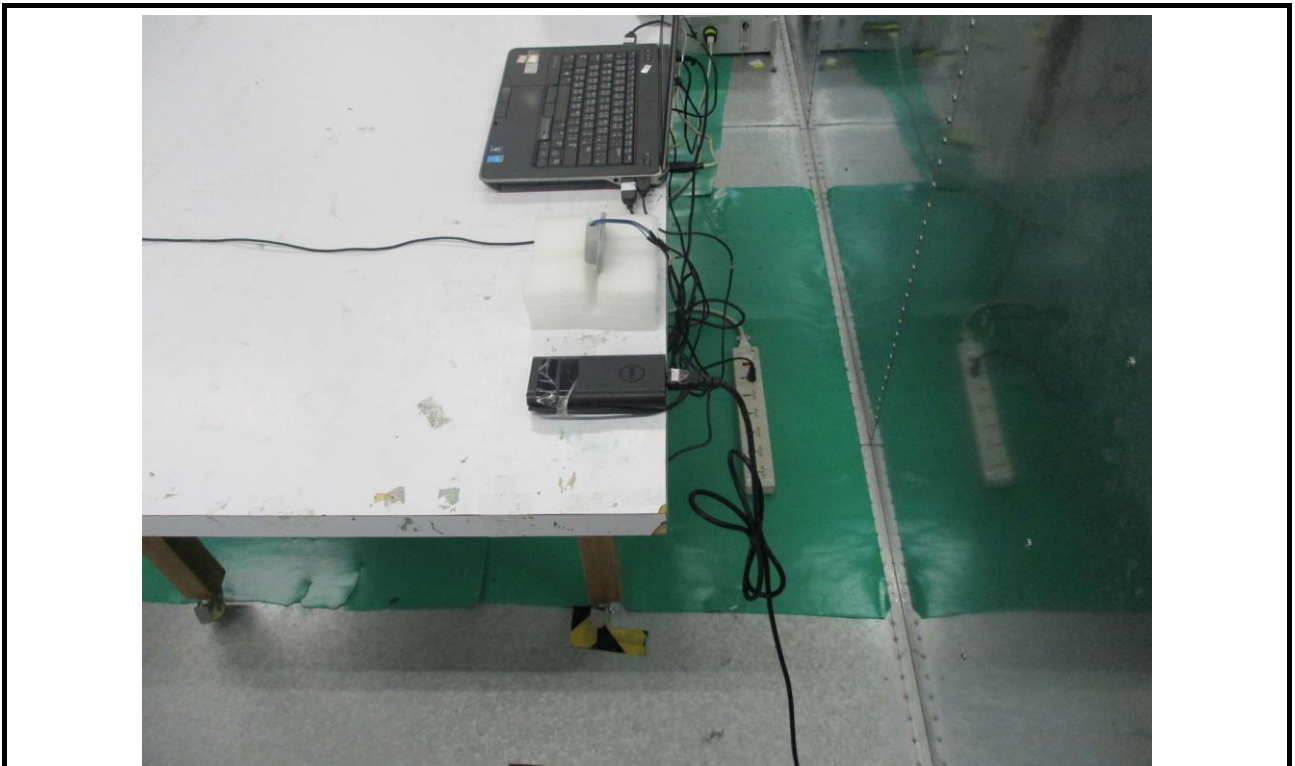
Note 1: Emission level (dBuV/m) = SA reading (dBuV) + Factor (dB).

2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

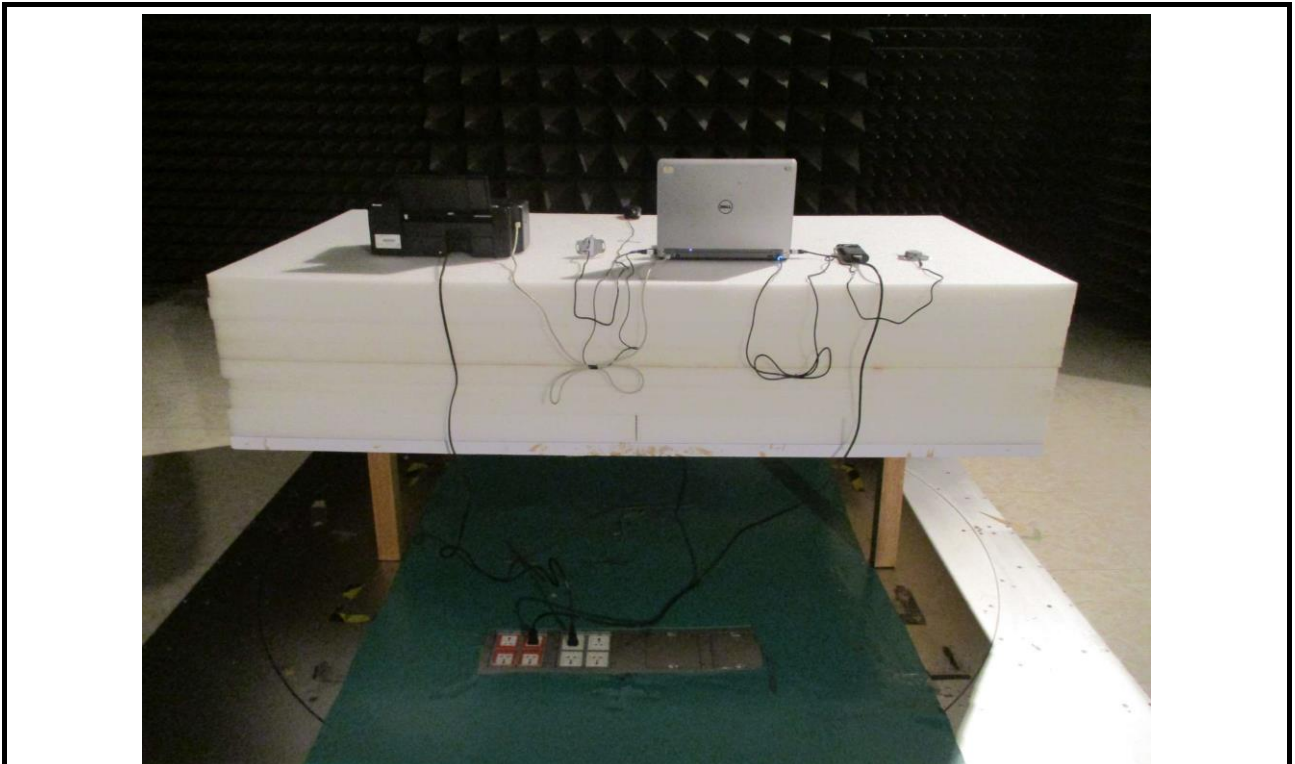
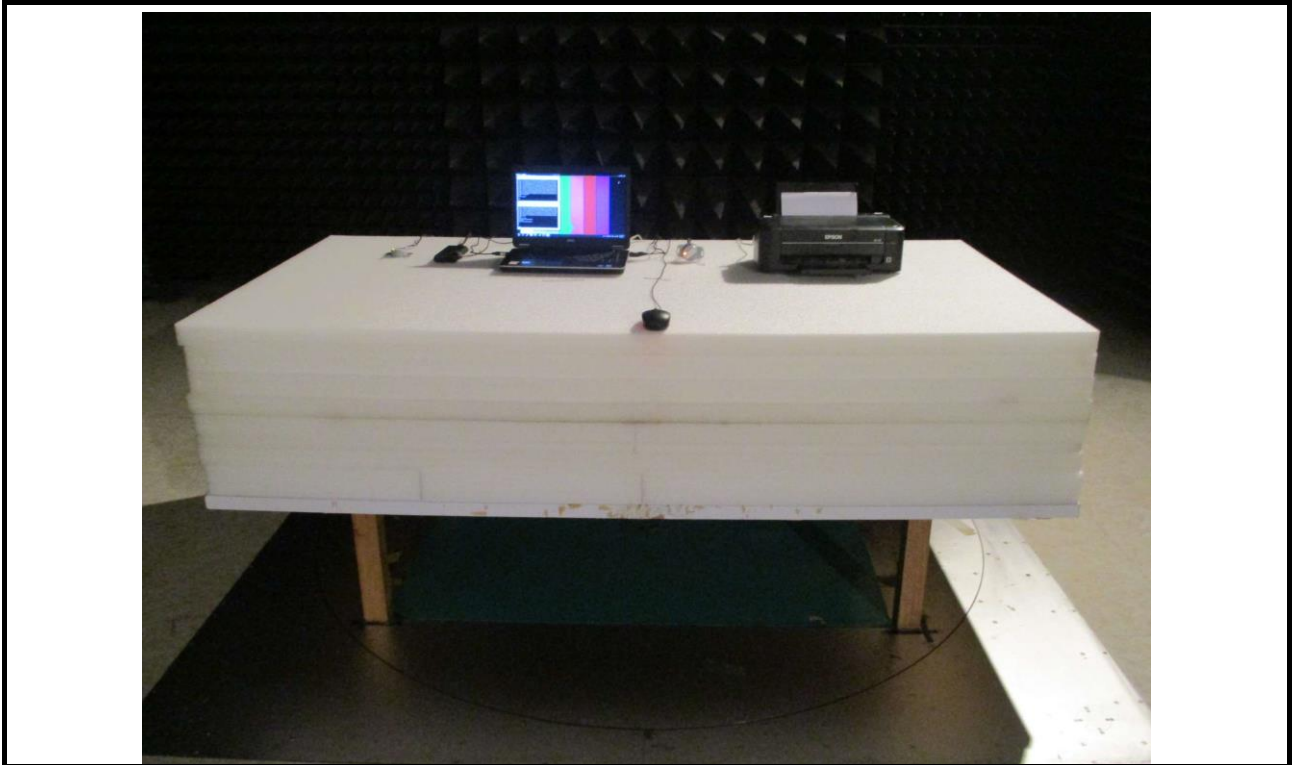
Polarization	Vertical	Test Mode	1						
<div><div><div>Level (dBuV/m)</div><div><div><div><div><div><div>97</div><div>90</div><div>80</div><div>70</div><div>60</div><div>50</div><div>40</div><div>30</div><div>20</div><div>10</div><div>0</div></div><div><div><div><div><div>1000</div><div>2000.</div><div>3000.</div><div>4000.</div><div>5000.</div><div>6000</div></div></div></div><div><div><div><div><div>2</div><div>4</div><div>6</div></div><div><div>1</div><div>3</div><div>5</div></div></div></div><div><div><div><div><div>CISPR32 CLASS-B</div><div>CISPR32 CLASS-B(AV)</div></div></div></div></div></div><div><div><div>Freq.</div><div>Emission</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>level</div><div>dBuV/m</div><div>dB</div><div>reading</div><div>dB</div><div></div><div>High</div><div>Table</div></div><div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div>cm</div><div>deg</div></div></div><div><div>1</div><div>1016.67</div><div>35.53</div><div>50.00</div><div>-14.47</div><div>45.29</div><div>-9.76</div><div>Average</div><div>100</div><div>69</div></div><div><div>2</div><div>1016.67</div><div>41.44</div><div>70.00</div><div>-28.56</div><div>51.20</div><div>-9.76</div><div>Peak</div><div>100</div><div>69</div></div><div><div>3</div><div>2069.12</div><div>36.33</div><div>50.00</div><div>-13.67</div><div>40.10</div><div>-3.77</div><div>Average</div><div>100</div><div>225</div></div><div><div>4</div><div>2069.12</div><div>41.39</div><div>70.00</div><div>-28.61</div><div>45.16</div><div>-3.77</div><div>Peak</div><div>100</div><div>225</div></div><div><div>5</div><div>2672.02</div><div>38.83</div><div>50.00</div><div>-11.17</div><div>40.55</div><div>-1.72</div><div>Average</div><div>100</div><div>142</div></div><div><div>6</div><div>2672.02</div><div>43.97</div><div>70.00</div><div>-26.03</div><div>45.69</div><div>-1.72</div><div>Peak</div><div>100</div><div>142</div></div></div></div><div><div>Note 1: Emission level (dBuV/m) = SA reading (dBuV) + Factor (dB).</div><div>2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).</div></div></div></div></div></div></div>									

4 Photographs of the Test Configuration

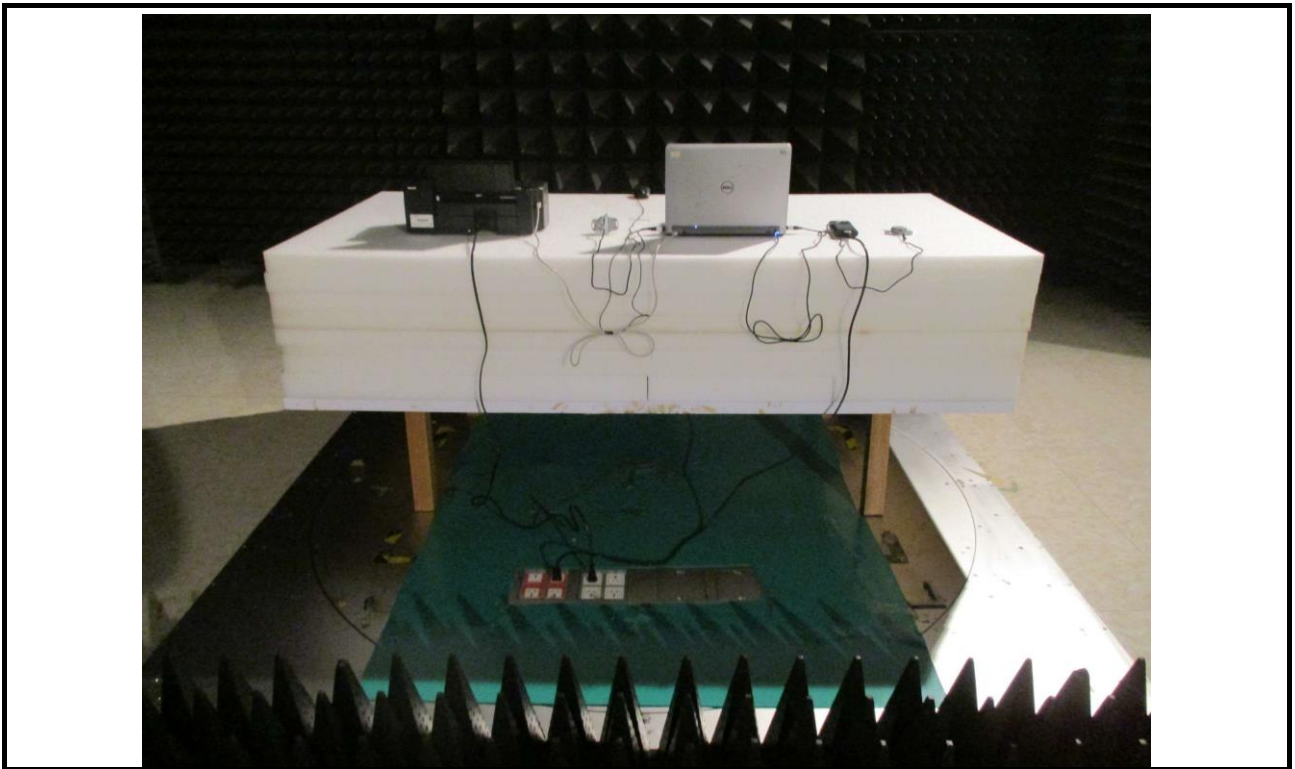
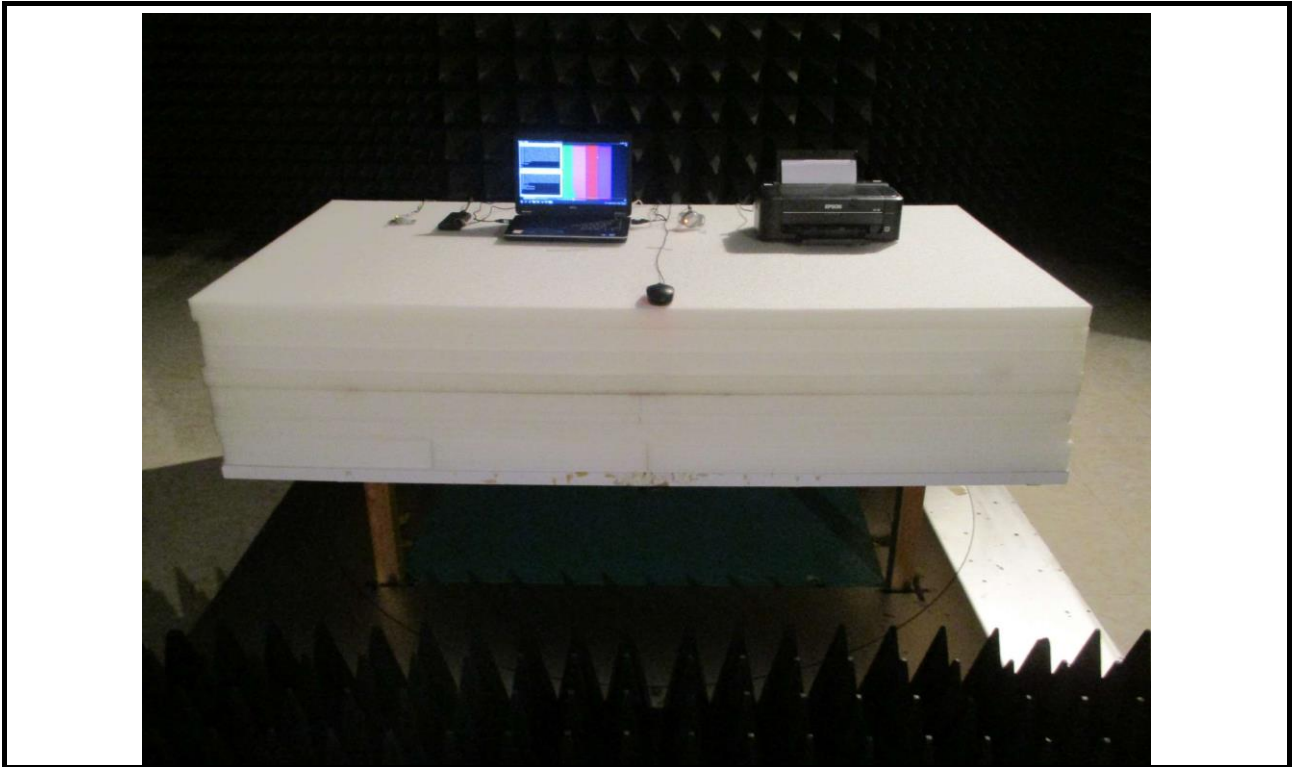
Conducted Emissions from the AC mains power ports



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 Corp (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 District, Tao Yuan
City 333, Taiwan, R.O.C.

Kwei Shan Site II

Tel: 886-3-271-8640

No. 14-1, Lane 19, Wen San 3rd
St., Kwei Shan District, Tao Yuan
City 333, Taiwan, R.O.C.

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

Tel: 886-3-271-8666

Fax: 886-3-318-0155

Email: ICC_Service@icertifi.com.tw

==END==