



Report No.: T210630D02-I

Ref. No.: T210423D08-I

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Rev.: 01



INDUSTRY CANADA TEST REPORT

for

AC ADAPTER

MODEL: PPL300x-yyyzzz(x=U(C14)-AC inlet; yyy = 120, 190, 240, 480 or 560 for output voltage; where zzz can be any alphanumeric character or blank for marketing purpose use.)

Issued to:

PHIHONG TECHNOLOGY CO., LTD.

**568 Fu Xing 3rd Rd., Guishan District,
Taoyuan 33383 Taiwan**

Issued by:

Compliance Certification Services Inc.

Xindian Lab.

**No.163-1, Jhongsheng Rd., Xindian Dist.,
New Taipei City, Taiwan.**

TEL: 886-2-22170894

FAX: 886-2-22171029

Issued Date: September 7, 2021

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Revision History

Rev.	Issue Date	Revisions	Effect Page	Revised By
00	May 10, 2021	Initial Issue	ALL	Linda Wu
01	September 7, 2021	Copy Report	ALL	Linda Wu

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1 TEST RESULT CERTIFICATION

Product:	AC ADAPTER
Model:	PPL300x-yyyzzz(x=U(C14)-AC inlet; yyy = 120, 190, 240, 480 or 560 for output voltage; where zzz can be any alphanumeric character or blank for marketing purpose use.)
Brand:	
Applicant:	PHIHONG TECHNOLOGY CO., LTD. 568 Fu Xing 3rd Rd., Guishan District, Taoyuan 33383 Taiwan
Manufacturer:	PHIHONG TECHNOLOGY CO., LTD. 568 Fu Xing 3rd Rd., Guishan District, Taoyuan 33383 Taiwan
Tested:	April 27, 2021

EMISSION			
Standard	Item	Result	Remarks
ICES-003 Issue 7-2020 ANSI C63.4-2014	Conducted (Power Port)	PASS	Meet Class B limit
	Radiated	PASS	Meet Class B limit

Statements of Conformity
Determination of compliance is based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

The above equipment has been tested by Compliance Certification Services Inc., and found compliance with the requirements set forth in the technical standards mentioned above. The results of testing in this report apply only to the product/system, which was tested. Other similar equipment will not necessarily produce the same results due to production tolerance and measurement uncertainties.

Approved by:

Sam Hu
Assistant Manager

Reviewed by:

Eva Fan
Supervisor of report document dept.

2 EUT DESCRIPTION

Product	AC ADAPTER
Brand Name	
Model	PPL300x-yyyzzz(x=U(C14)-AC inlet; yyy = 120, 190, 240, 480 or 560 for output voltage; where zzz can be any alphanumeric character or blank for marketing purpose use.)
Applicant	PHIHONG TECHNOLOGY CO., LTD.
Housing material	Plastic
Identify Number	T210423D08
Received Date	April 23, 2021
EUT Power Rating	Please see the model differences
AC Power During Test	120VAC / 60Hz
DC Power Cable Type	Unshielded, 1.2m (Non-detachable, with a core)

Model Differences

Model Name	Input Rating	Output Rating	Tested (Check)
PPL300U-120	100-240VAC, 50-60Hz, 3.9A Max	12VDC, 24.00A, 288W	<input type="checkbox"/>
PPL300U-190		19VDC, 15.75A, 300W	<input type="checkbox"/>
PPL300U-240		24VDC, 12.50A, 300W	<input type="checkbox"/>
PPL300U-480		48VDC, 6.25A, 300W	<input type="checkbox"/>
PPL300U-560		56VDC, 5.36A, 300W	<input checked="" type="checkbox"/>
PPL300x-yyyzzz	x=U(C14)-AC inlet; yyy = 120, 190, 240, 480 or 560 for output voltage; where zzz can be any alphanumeric character or blank for marketing purpose use.		<input type="checkbox"/>

I/O PORT

I/O PORT TYPES	Q'TY	TESTED WITH

Note: Client consigns only one model sample to test (Model Number: PPL300U-560).

3 TEST METHODOLOGY

3.1. DECISION OF FINAL TEST MODE

The EUT was tested together with the below additional components, and a configuration, which produced the worst emission levels, was selected and recorded in this report.

The test configuration mode is as the following:

Mode:

1	PPL300U-560	Full Rated Load Mode
---	-------------	----------------------

Worst:

Conduction: Mode 1

Radiation: Mode 1

3.2. EUT SYSTEM OPERATION

1. To adjust variable resistor to test full rated load mode.

Note: Test program is self-repeating throughout the test.

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4 SETUP OF EQUIPMENT UNDER TEST

4.1. DESCRIPTION OF SUPPORT UNITS

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

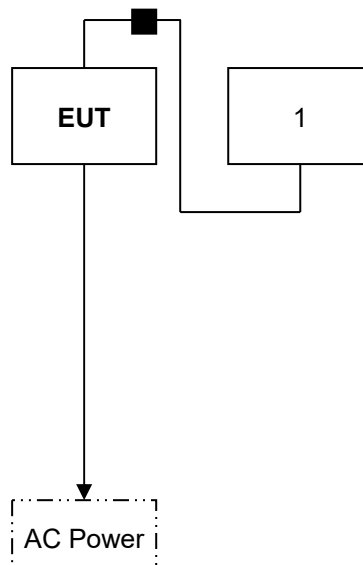
Peripherals Devices:

No.	Equipment	Model No.	Serial No.	FCC ID / BSMI ID	Brand Name	Data Cable	Power Cord
1	Variable Resistor	N/A	N/A	N/A	N/A	N/A	Unshielded, 1.2m with a core

Note:

- 1) All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.
- 2) Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.

4.2. CONFIGURATION OF SYSTEM UNDER TEST



5 FACILITIES AND ACCREDITATIONS

5.1. FACILITIES

All measurement facilities used to collect the measurement data are located at CCSrf Taiwan Xindian Lab. at No.163-1, Jhongsheng Rd., Xindian Dist., New Taipei City, Taiwan.

The sites are constructed in conformance with the requirements of ANSI C63.4 and CISPR Publication 22. All receiving equipment conforms to CISPR 16-1-1, CISPR 16-1-2, CISPR 16-1-3, CISPR 16-1-4 and CISPR 16-1-5.

5.2. ACCREDITATIONS

Our laboratories are accredited and approved by the following accreditation body according to ISO/IEC 17025.

Taiwan	TAF
USA	A2LA

The measuring facility of laboratories has been authorized or registered by the following approval agencies.

Canada	Industry Canada
Japan	VCCI
Taiwan	BSMI
USA	FCC

Copies of granted accreditation certificates are available for downloading from our web site, <http://www.ccsrf.com>

5.3. MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

Measurement	Frequency	Uncertainty
Conducted emissions	0.15MHz ~ 30MHz	± 2.8
Radiated emissions	30MHz ~ 1000MHz	± 5.2

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

Consistent with industry standard (e.g. CISPR 22: 2005, clause 11, Measurement Uncertainty) determining compliance with the limits shall be base on the results of the compliance measurement. Consequently the measure emissions being less than the maximum allowed emission result in this be a compliant test or passing test.

The acceptable measurement uncertainty value without requiring revision of the compliance statement is base on conducted and radiated emissions being less than U_{CISPR} which is 3.8dB(AMN) and 5.2dB(OATS) and 5.5 dB(1-18GHz) respectively. CCS values (called U_{Lab} in CISPR 16-4-2) is less than U_{CISPR} as shown in the table above. Therefore, MU need not be considered for compliance.

6 CONDUCTED EMISSION MEASUREMENT

6.1. LIMITS OF CONDUCTED EMISSION MEASUREMENT

FREQUENCY (MHz)	Class A (dBuV)		Class B (dBuV)	
	Quasi-peak	Average	Quasi-peak	Average
0.15 - 0.5	79	66	66 - 56	56 - 46
0.50 - 5.0	73	60	56	46
5.0 - 30.0	73	60	60	50

NOTE:

- (1) The lower limit shall apply at the transition frequencies.
- (2) The limit decreases in line with the logarithm of the frequency in the range 0.15 to 0.50 MHz.
- (3) All emanations from a class A/B digital device or system, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strengths specified above.

6.2. TEST INSTRUMENTS

Conducted Emission room # B				
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due
Attenuator	MCL	HAT-10	SD-C012	03/23/2022
BNC Cable	EMCI	CFD300-NL	BNC#B5	01/04/2022
EMI Test Receiver	R&S	ESR3	102166	04/12/2022
LISN	Schwarzbeck	NSLK 8127	8127382	04/13/2022
LISN(EUT)	Schwarzbeck	NSLK 8127	8127526	04/13/2022
Thermo-Hygro Meter	Wisewind	N/A	SD-S017	09/08/2021
Test S/W	EZ-EMC			

- NOTE:**
1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
 2. N.C.R = No Calibration Request.

6.3. TEST PROCEDURES (please refer to measurement standard or CCS SOP PA-031)

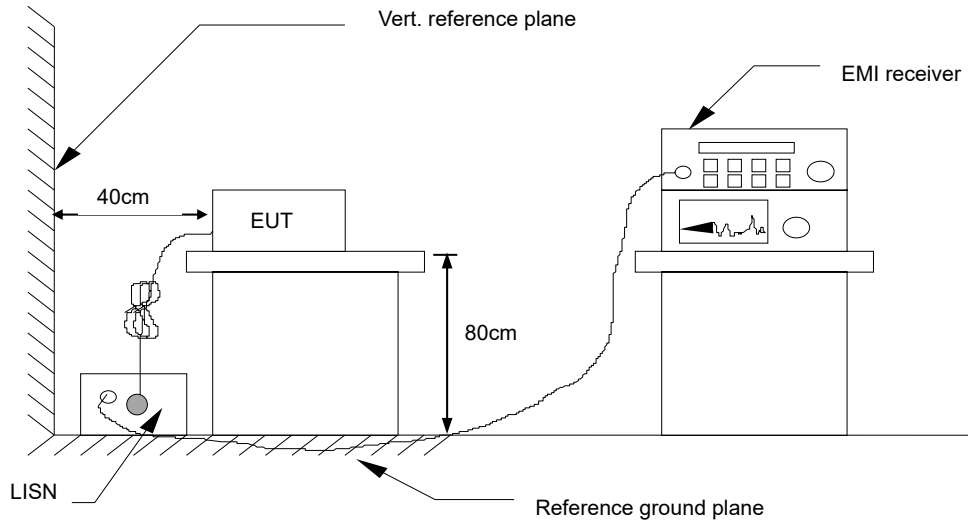
Procedure of Preliminary Test

- The EUT and support equipment, if needed, were set up as per the test configuration to simulate typical usage per the user's manual. When the EUT is a tabletop system, a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per ANSI C63.4 (see Test Facility for the dimensions of the ground plane used). When the EUT is a floor standing equipment, it is placed on the ground plane, which has a 12 mm non-conductive covering to insulate the EUT from the ground plane.
- All I/O cables were positioned to simulate typical actual usage as per ANSI C63.4.
- The test equipment EUT installed by AC main power, through a Line Impedance Stabilization Network (LISN), which was supplied power source and was grounded to the ground plane.
- All support equipment power by from a second LISN.
- The test program of the EUT was started. Emissions were measured on each current carrying line of the EUT using an EMI Test Receiver connected to the LISN powering the EUT.
- The Receiver scanned from 150kHz to 30MHz for emissions in each of the test modes.
- During the above scans, the emissions were maximized by cable manipulation.
- The test mode(s) described in Item 3.1 were scanned during the preliminary test.
- After the preliminary scan, we found the test mode described in Item 3.1 producing the highest emission level.
- The worst configuration of EUT and cable of the above highest emission level were recorded for reference of the final test.

Procedure of Final Test

- EUT and support equipment were set up on the test bench as per the configuration with highest emission level in the preliminary test.
- A scan was taken on both power lines, Line 1 and Line 2, recording at least the six highest emissions. Emission frequency and amplitude were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit.
- The test data of the worst-case condition(s) was recorded.

6.4. TEST SETUP



- For the actual test configuration, please refer to the related item – Photographs of the Test Configuration.

6.5. DATA SAMPLE

Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector (P/Q/A)	Line (L1/L2)
x.xx	42.95	0.55	43.50	56	-12.50	Q	L1

- Freq. = Emission frequency in MHz
- Reading = Uncorrected Analyzer/Receiver reading
- Factor = Insertion loss of LISN + Cable Loss + Pulse Limit
- Result = Reading + Factor
- Limit = Limit stated in standard
- Margin = Reading in reference to limit
- P = Peak Reading
- Q = Quasi-peak Reading
- A = Average Reading
- L1 = Hot side
- L2 = Neutral side

Calculation Formula

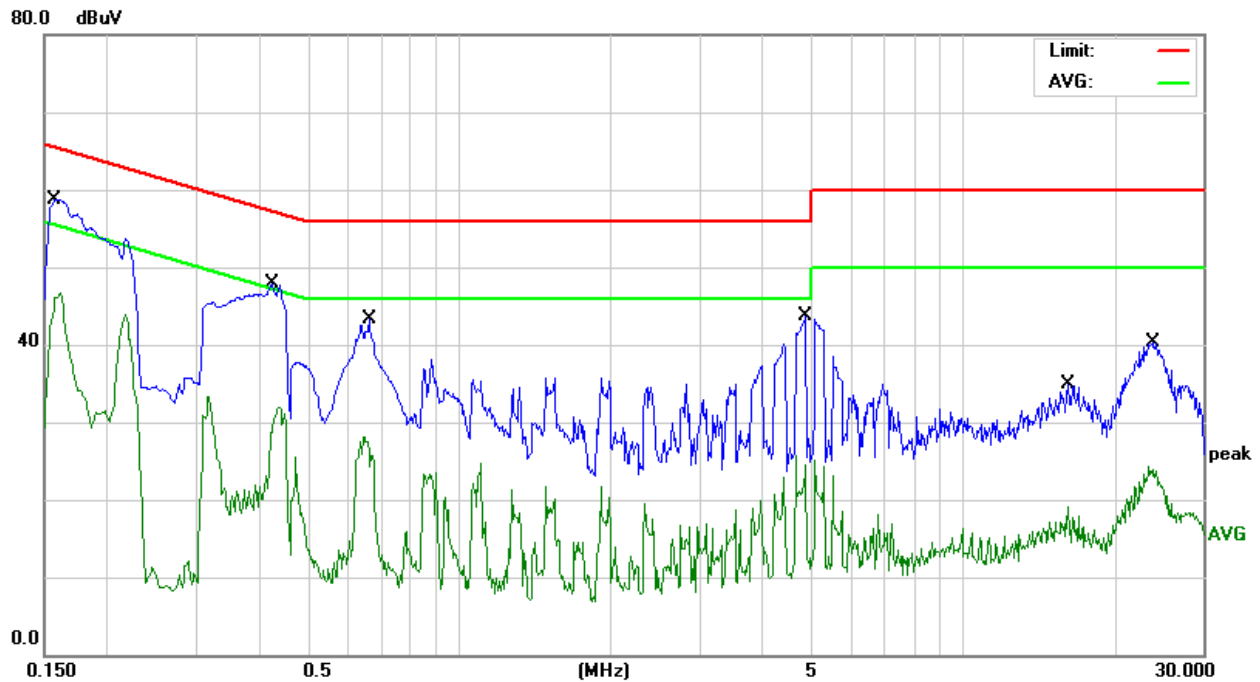
$$\text{Margin (dB)} = \text{Result (dBuV)} - \text{Limit (dBuV)}$$

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6.6. TEST RESULTS

Model No.	PPL300U-560	6dB Bandwidth	9 kHz
Environmental Conditions	23°C, 65% RH	Test Mode	Mode 1
Tested by	Ken Lin	Phase	L1
Standard	ICES-003 CLASS B		



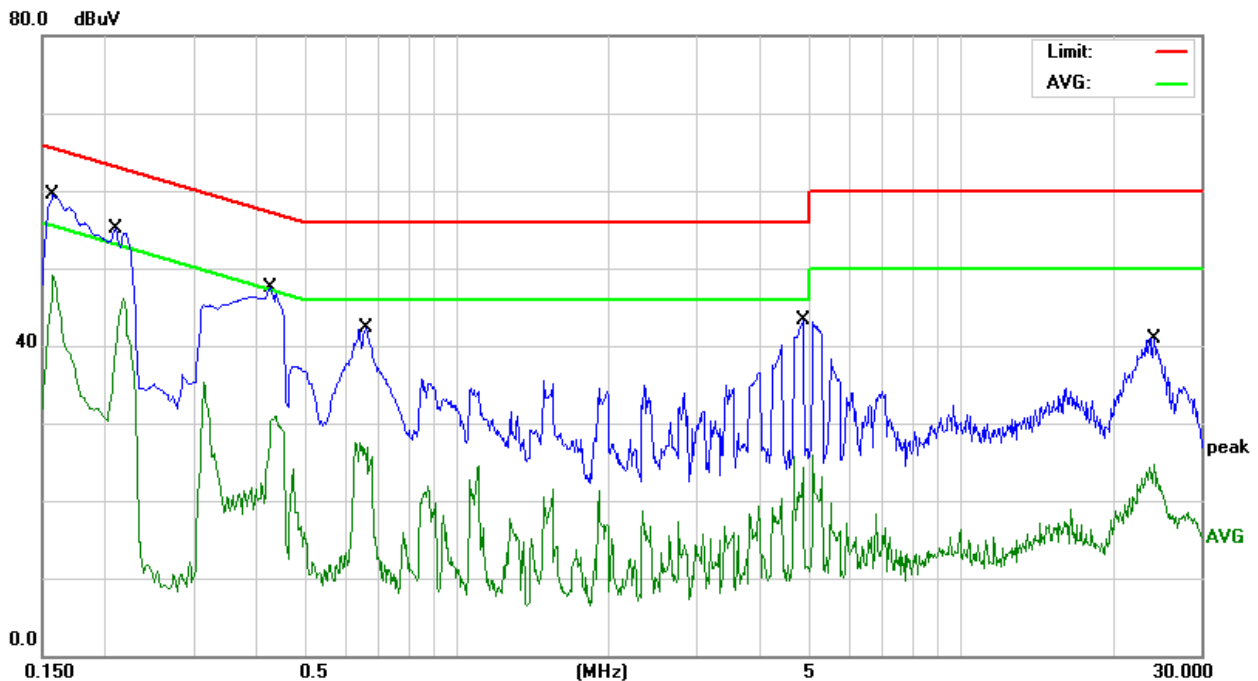
Conducted Emission Readings							
Frequency Range Investigated				150 kHz to 30 MHz			
Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector (P/Q/A)	Line (L1/L2)
0.1580	48.20	10.08	58.28	65.56	-7.28	Q	L1
0.1580	36.30	10.08	46.38	55.56	-9.18	A	L1
0.4260	33.10	10.09	43.19	57.33	-14.14	Q	L1
0.4260	19.30	10.09	29.39	47.33	-17.94	A	L1
0.6620	28.60	10.12	38.72	56.00	-17.28	Q	L1
0.6620	15.80	10.12	25.92	46.00	-20.08	A	L1
4.8740	30.20	10.49	40.69	56.00	-15.31	Q	L1
4.8740	9.30	10.49	19.79	46.00	-26.21	A	L1
16.1540	16.30	10.80	27.10	60.00	-32.90	Q	L1
16.1540	5.00	10.80	15.80	50.00	-34.20	A	L1
23.7700	24.00	10.94	34.94	60.00	-25.06	Q	L1
23.7700	12.00	10.94	22.94	50.00	-27.06	A	L1

Note: 1. L1 = Line One (Live Line) / L2 = Line Two (Neutral Line).

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Model No.	PPL300U-560	6dB Bandwidth	9 kHz
Environmental Conditions	23°C, 65% RH	Test Mode	Mode 1
Tested by	Ken Lin	Phase	L2
Standard	ICES-003 CLASS B		



Conducted Emission Readings							
Frequency Range Investigated				150 kHz to 30 MHz			
Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector (P/Q/A)	Line (L1/L2)
0.1580	48.40	10.09	58.49	65.56	-7.07	Q	L2
0.1580	36.80	10.09	46.89	55.56	-8.67	A	L2
0.2100	40.70	10.10	50.80	63.20	-12.40	Q	L2
0.2100	29.90	10.10	40.00	53.20	-13.20	A	L2
0.4260	32.60	10.09	42.69	57.33	-14.64	Q	L2
0.4260	18.80	10.09	28.89	47.33	-18.44	A	L2
0.6580	28.40	10.11	38.51	56.00	-17.49	Q	L2
0.6580	15.90	10.11	26.01	46.00	-19.99	A	L2
4.8700	31.30	10.43	41.73	56.00	-14.27	Q	L2
4.8700	11.80	10.43	22.23	46.00	-23.77	A	L2
24.1620	25.30	10.88	36.18	60.00	-23.82	Q	L2
24.1620	12.20	10.88	23.08	50.00	-26.92	A	L2

Note: 1. L1 = Line One (Live Line) / L2 = Line Two (Neutral Line).

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7 RADIATED EMISSION MEASUREMENT

7.1. LIMITS OF RADIATED EMISSION MEASUREMENT

Below 1GHz

Class A Radiated Emission limit

Frequency (MHZ)	(dBuV/m)Q.P. Distances (3m)	(dBuV/m)Q.P. Distances (10m)
30 - 88	50	40
88 - 216	54	43.5
216 - 230	56.9	46.4
230 - 960	57	47
960 - 1000	60	49.5

Class B Radiated Emission limit

Frequency (MHZ)	(dBuV/m)Q.P. Distances (3m)	(dBuV/m)Q.P. Distances (10m)
30 - 88	40	30
88 - 216	43.5	33.1
216 - 230	46	35.6
230 - 960	47	37
960 - 1000	54	43.5

Above 1GHz

Frequency (MHZ)	Class A (dBuV/m) (At 3m)		Class B (dBuV/m) (At 3m)	
	Average	Peak	Average	Peak
Above 1000	60	80	54	74

Required highest measurement frequency for radiated emissions

Highest frequency generated or used in the device or on which the device operates or tunes (MHz)	Upper frequency of measurement range (MHz)
Fx-108	1000
108-500	2000
500-1000	5000
Above 1000	5 x FX up to a maximum of 40 GHz

NOTE: Fx is the highest fundamental frequency generated and/or used in the ITE or digital apparatus under test.

7.2. TEST INSTRUMENTS

Open Area Test Site # H				
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due
Bilog Antenna	Teseq	CBL 6112D	40529	08/23/2021
Cable	EMEC	CFD400NL-LW	N-Type#H11	08/13/2021
EMI Test Receiver	R&S	ESCI	101340	02/25/2022
Pre-Amplifier	HP	8447D	1937A01554	09/25/2021
Thermo-Hygro Meter	Wisewind	201A	No. 03	05/31/2021
Test S/W	EZ-EMC			

- NOTE:** 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
2. N.C.R = No Calibration Request.

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7.3. TEST PROCEDURES (please refer to measurement standard or CCS SOP PA-031)

Procedure of Preliminary Test

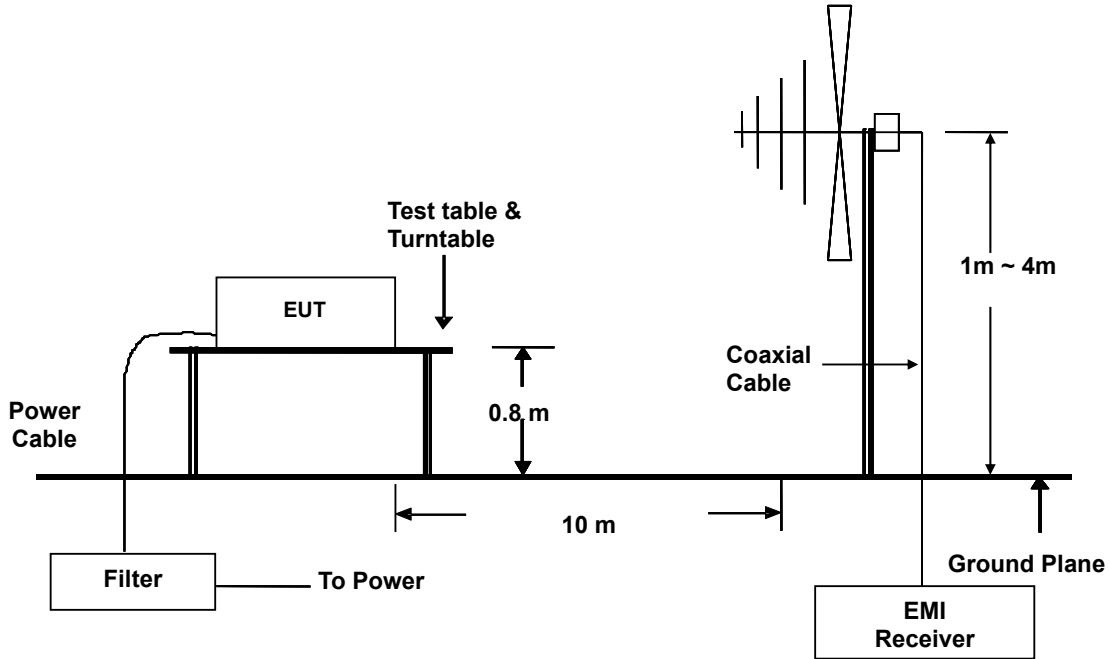
- The equipment was set up as per the test configuration to simulate typical usage per the user's manual. When the EUT is a tabletop system, a wooden turntable with a height of 0.8 meters is used which is placed on the ground plane. When the EUT is a floor standing equipment, it is placed on the ground plane which has a 12 mm non-conductive covering to insulate the EUT from the ground plane.
- Support equipment, if needed, was placed as per ANSI C63.4.
- All I/O cables were positioned to simulate typical usage as per ANSI C63.4.
- The EUT received AC power source from the outlet socket under the turntable. All support equipment power received from another socket under the turntable.
- The antenna was placed at 3 or 10 meter away from the EUT as stated in ANSI C63.4. The antenna connected to the Spectrum Analyzer via a cable and at times a pre-amplifier would be used.
- The Analyzer / Receiver quickly scanned from 30MHz to 40GHz. The EUT test program was started. Emissions were scanned and measured rotating the EUT to 360 degrees and positioning the antenna 1 to 4 meters above the ground plane, in both the vertical and the horizontal polarization, to maximize the emission reading level.
- The test mode(s) described in Item 3.1 were scanned during the preliminary test:
- After the preliminary scan, we found the test mode described in Item 3.1 producing the highest emission level.
- The worst configuration of EUT and cable of the above highest emission level were recorded for reference of the final test.

Procedure of Final Test

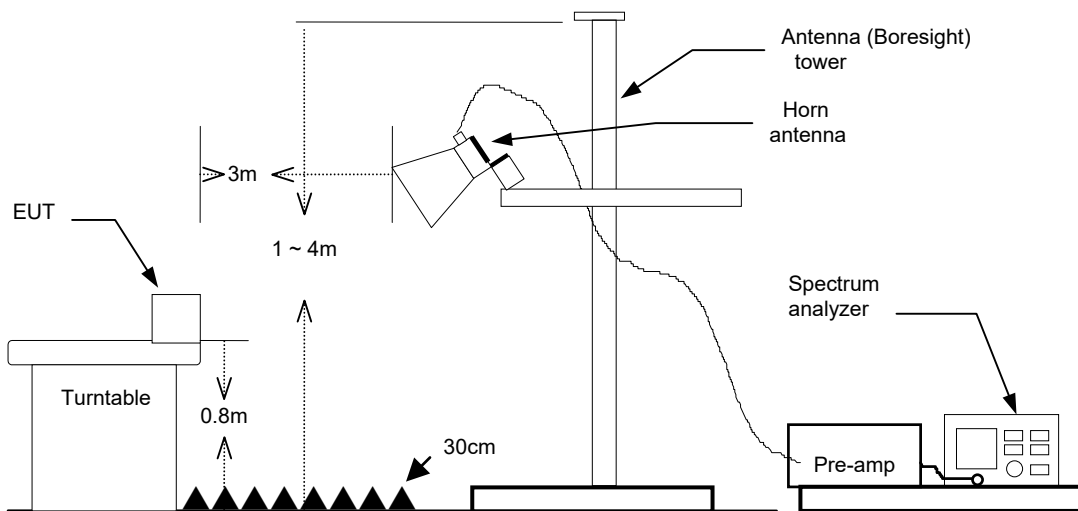
- EUT and support equipment were set up on the turntable as per the configuration with highest emission level in the preliminary test.
- The Analyzer / Receiver scanned from 30MHz to 40GHz. Emissions were scanned and measured rotating the EUT to 360 degrees, varying cable placement and positioning the antenna 1 or 1 to 4 meters above the ground plane, in both the vertical and the horizontal polarization, to maximize the emission reading level.
- Recording at least the six highest emissions. Emission frequency, amplitude, antenna position, polarization and turntable position were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit. Below 1GHz the Q.P. reading and above 1GHz the Peak and Average reading are presented.
- The test data of the worst-case condition(s) was recorded.

7.4. TEST SETUP

Below 1GHz



Above 1GHz



- For the actual test configuration, please refer to the related item – Photographs of the Test Configuration.

7.5. DATA SAMPLE

Below 1GHz

Freq. (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector (P/Q)	Pol. (H/V)
x.xx	14.0	12.2	26.2	30	-10.8	Q	H

Above 1GHz

Freq. (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector (P/A)	Pol. (H/V)
x.xx	42.95	0.55	43.50	54	-10.50	A	H

- Freq. = Emission frequency in MHz
- Reading = Uncorrected Analyzer/Receiver reading
- Factor = Antenna Factor + Cable Loss - Amplifier Gain
- Result = Reading + Factor
- Limit = Limit stated in standard
- Margin = Reading in reference to limit
- P = Peak Reading
- Q = Quasi-peak Reading
- A = Average Reading
- H = Antenna Polarization: Horizontal
- V = Antenna Polarization: Vertical

Calculation Formula

Margin (dB) = Result (dBuV/m) – Limit (dBuV/m)

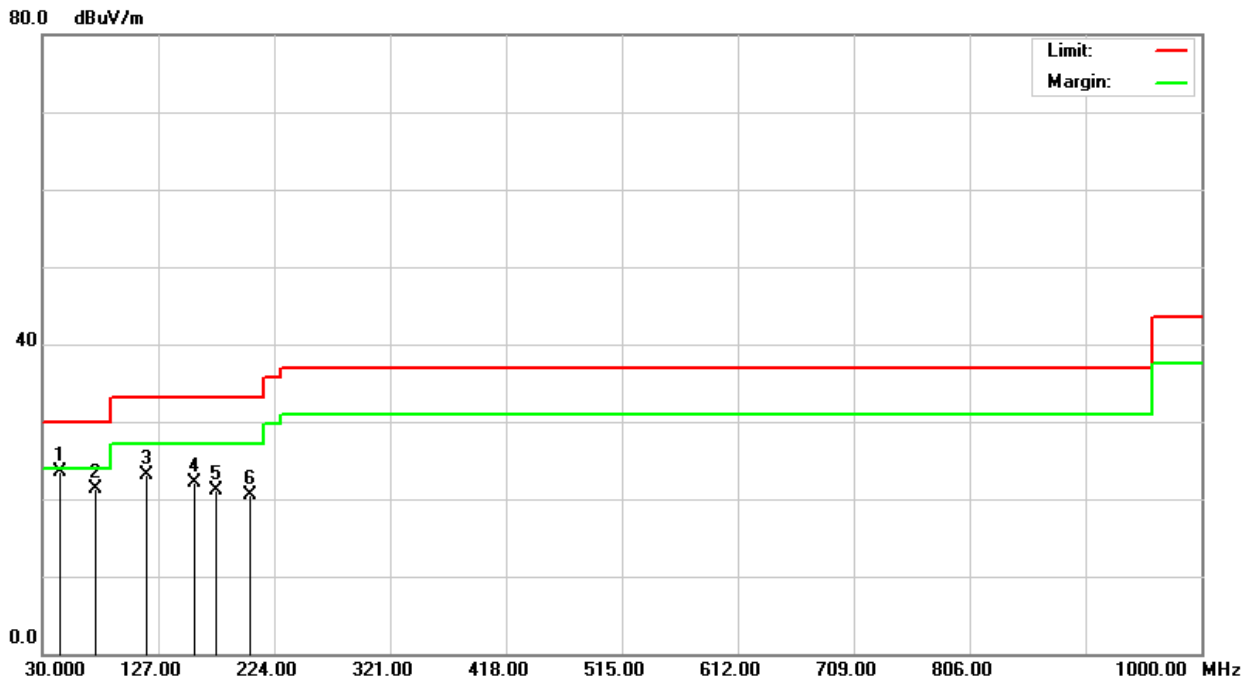
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7.6. TEST RESULTS

Below 1GHz

Model No.	PPL300U-560	Test Mode	Mode 1
Environmental Conditions	25°C, 59% RH	6dB Bandwidth	120 kHz
Antenna Pole	Vertical	Antenna Distance	10m
Detector Function	Quasi-peak.	Tested by	Ken Lin
Standard	ICES-003 CLASS B		



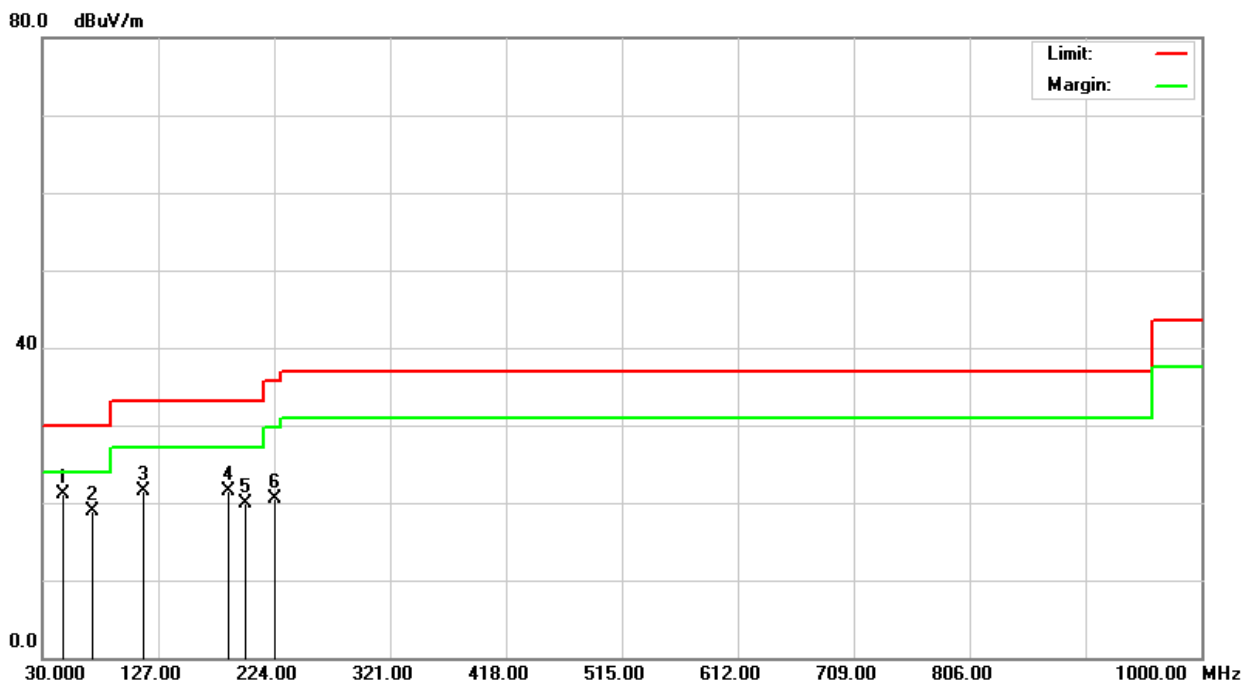
Radiated Emission Readings									
Frequency Range Investigated				30 MHz to 1000 MHz at 10m					
Freq. (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (°)	Detector (P/Q)	Pol. (H/V)
44.9700	33.50	-10.08	23.42	30.00	-6.58	100	158	Q	V
74.6200	35.30	-14.03	21.27	30.00	-8.73	100	120	Q	V
116.8400	30.80	-7.78	23.02	33.10	-10.08	100	38	Q	V
157.4100	31.60	-9.54	22.06	33.10	-11.04	100	310	Q	V
175.9700	31.30	-10.14	21.16	33.10	-11.94	100	168	Q	V
203.3300	30.50	-9.92	20.58	33.10	-12.52	100	262	Q	V

Note: 1. P= Peak Reading; Q= Quasi-peak Reading.

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Model No.	PPL300U-560	Test Mode	Mode 1
Environmental Conditions	25°C, 59% RH	6dB Bandwidth	120 kHz
Antenna Pole	Horizontal	Antenna Distance	10m
Detector Function	Quasi-peak.	Tested by	Ken Lin
Standard	ICES-003 CLASS B		



Radiated Emission Readings									
Frequency Range Investigated				30 MHz to 1000 MHz at 10m					
Freq. (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Degree (°)	Detector (P/Q)	Pol. (H/V)
47.1200	32.30	-11.24	21.06	30.00	-8.94	400	119	Q	H
72.0000	32.80	-13.88	18.92	30.00	-11.08	400	284	Q	H
114.9300	29.50	-7.98	21.52	33.10	-11.58	400	235	Q	H
186.3400	31.90	-10.38	21.52	33.10	-11.58	400	106	Q	H
199.8900	29.90	-10.05	19.85	33.10	-13.25	400	0	Q	H
224.3100	30.00	-9.50	20.50	35.60	-15.10	400	221	Q	H

Note: 1. P= Peak Reading; Q= Quasi-peak Reading.

Above 1GHz

Model No.	PPL300U-560	Test Mode	N/A
Environmental Conditions	N/A	6dB Bandwidth	N/A
Antenna Pole	N/A	Antenna Distance	N/A
Highest frequency generated or used	100KHz	Upper frequency	See note
Detector Function	N/A	Tested by	N/A

Note: No applicable, when the highest frequency of the internal sources of the EUT is less than 108MHz, the measurement shall only be made up to 1 GHz.

8 PHOTOGRAPHS OF THE TEST CONFIGURATION CONDUCTED EMISSION TEST



RADIATED EMISSION TEST (Below 1GHz)

