

# FCC-DOC COMPLIANCE REPORT

Based On Test Report No. : E7/2017/80017

**Applicant** : TRACO ELECTRONIC AG  
**Address** : Sihlbruggstrasse 111 CH-6340 Baar Switzerland  
**Manufacturer** : TRACO ELECTRONIC AG  
**Address** : Sihlbruggstrasse 111 CH-6340 Baar Switzerland

## Equipment Under Test (EUT) :

**Product Name** : AC-DC POWER SUPPLY

**Brand Name** :



**Model No.** : TPP 30-105A-J; TPP 30-105; TPP 30-105BA-J

**Added Model(s)** : Please refer to Section 1.2

**Standards** : FCC Part 15:2017, Subpart B, Class B  
FCC Rules and Regulations Part 18(2016)

**Date of Receipt** : Apr. 19, 2018

**Date of Issue** : Jul. 19, 2018

<b>Test Result :</b>	<b>PASS</b>
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In the configuration tested, the EUT complied with the standards specified above.

## Remarks :

This report details the results of the testing carried out on one sample, the results contained in this test report do not relate to other samples of the same product. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

This report shall not be reproduced except in full, without the written approval of the laboratory. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards.

## We hereby certify that:

The above equipment was tested by SGS Taiwan Ltd. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.4 :2014 and the energy emitted by the sample EUT tested as described in this report is in compliance with conducted and radiated emission limits of FCC Rules Part 18

The test results of this report relate only to the tested sample identified in this report.

**Approved By:**

**Date**

Jul. 19, 2018



**Bill Cheng**  
(Section Manager)

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## Revision History

Report Number	Revision	Description	Issue Date
MH/2018/40100	Rev.00	Initial creation of document	Jul. 19, 2018

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# 1. General Information

## 1.1 Applicant & Manufacturer Information

Applicant : TRACO ELECTRONIC AG  
Address of Applicant : Sihlbruggstrasse 111 CH-6340 Baar Switzerland  
Manufacturer : TRACO ELECTRONIC AG  
Address of Manufacturer : Sihlbruggstrasse 111 CH-6340 Baar Switzerland

## 1.2 General Description of EUT

Product Name : AC-DC POWER SUPPLY

Brand Name : 

Model No. : TPP 30-105A-J; TPP 30-105; TPP 30-105BA-J

Added Model(s) : TPP 30-103A-J; TPP 30-107A-J; TPP 30-109A-J; TPP 30-112A-J; TPP 30-112.1A-J; TPP 30-115A-J; TPP 30-115.1A-J; TPP 30-118A-J; TPP 30-124A-J; TPP 30-128A-J; TPP 30-136A-J; TPP 30-148A-J; TPP 30-153A-J; TPP 30-103-J; TPP 30-105-J; TPP 30-107-J; TPP 30-109-J; TPP 30-112-J; TPP 30-112.1-J; TPP 30-115-J; TPP 30-115.1-J; TPP 30-118-J; TPP 30-124-J; TPP 30-128-J; TPP 30-136-J; TPP 30-148-J; TPP 30-153-J; TPP 30-103A; TPP 30-105A; TPP 30-107A; TPP 30-109A; TPP 30-112A; TPP 30-112.1A; TPP 30-115A; TPP 30-115.1A; TPP 30-118A; TPP 30-124A; TPP 30-128A; TPP 30-136A; TPP 30-148A; TPP 30-153A; TPP 30-103; TPP 30-107; TPP 30-109; TPP 30-112; TPP 30-112.1; TPP 30-115; TPP 30-115.1; TPP 30-118; TPP 30-124; TPP 30-128; TPP 30-136; TPP 30-148; TPP 30-153; TPP 30-103A-M; TPP 30-105A-M; TPP 30-107A-M; TPP 30-109A-M; TPP 30-112A-M; TPP 30-112.1A-M; TPP 30-115A-M; TPP 30-115.1A-M; TPP 30-118A-M; TPP 30-124A-M; TPP 30-128A-M; TPP 30-136A-M; TPP 30-148A-M; TPP 30-153A-M; TPP 30-103-M; TPP 30-105-M; TPP 30-107-M; TPP 30-109-M; TPP 30-112-M; TPP 30-112.1-M; TPP 30-115-M; TPP 30-115.1-M; TPP 30-118-M; TPP 30-124-M; TPP 30-128-M; TPP 30-136-M; TPP 30-148-M; TPP 30-153-M; TPP 30-103A-D; TPP 30-105A-D; TPP 30-107A-D; TPP 30-109A-D; TPP 30-112A-D; TPP 30-112.1A-D; TPP 30-115A-D;

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Added Model(s) : TPP 30-115.1A-D; TPP 30-118A-D; TPP 30-124A-D; TPP 30-128A-D; TPP 30-136A-D; TPP 30-148A-D; TPP 30-153A-D; TPP 30-103-D; TPP 30-105-D; TPP 30-107-D; TPP 30-109-D; TPP 30-112-D; TPP 30-112.1-D; TPP 30-115-D; TPP 30-115.1-D; TPP 30-118-D; TPP 30-124-D; TPP 30-128-D; TPP 30-136-D; TPP 30-148-D; TPP 30-153-D; TPP 30-103A2-J; TPP 30-105A2-J; TPP 30-107A2-J; TPP 30-109A2-J; TPP 30-112A2-J; TPP 30-112.1A2-J; TPP 30-115A2-J; TPP 30-115.1A2-J; TPP 30-118A2-J; TPP 30-124A2-J; TPP 30-128A2-J; TPP 30-136A2-J; TPP 30-148A2-J; TPP 30-153A2-J; TPP 30-103A2-M; TPP 30-105A2-M; TPP 30-107A2-M; TPP 30-109A2-M; TPP 30-112A2-M; TPP 30-112.1A2-M; TPP 30-115A2-M; TPP 30-115.1A2-M; TPP 30-118A2-M; TPP 30-124A2-M; TPP 30-128A2-M; TPP 30-136A2-M; TPP 30-148A2-M; TPP 30-153A2-M; TPP 30-103A2; TPP 30-105A2; TPP 30-107A2; TPP 30-109A2; TPP 30-112A2; TPP 30-112.1A2; TPP 30-115A2; TPP 30-115.1A2; TPP 30-118A2; TPP 30-124A2; TPP 30-128A2; TPP 30-136A2; TPP 30-148A2; TPP 30-153A2; TPP 30-103BA-J; TPP 30-107BA-J; TPP 30-109BA-J; TPP 30-112BA-J; TPP 30-112.1BA-J; TPP 30-115BA-J; TPP 30-115.1BA-J; TPP 30-118BA-J; TPP 30-124BA-J; TPP 30-128BA-J; TPP 30-136BA-J; TPP 30-148BA-J; TPP 30-153BA-J; TPP 30-103B-J; TPP 30-105B-J; TPP 30-107B-J; TPP 30-109B-J; TPP 30-112B-J; TPP 30-112.1B-J; TPP 30-115B-J; TPP 30-115.1B-J; TPP 30-118B-J; TPP 30-124B-J; TPP 30-128B-J; TPP 30-136B-J; TPP 30-148B-J; TPP 30-153B-J; TPP 30-103BA; TPP 30-105BA; TPP 30-107BA; TPP 30-109BA; TPP 30-112BA; TPP 30-112.1BA; TPP 30-115BA; TPP 30-115.1BA; TPP 30-118BA; TPP 30-124BA; TPP 30-128BA; TPP 30-136BA; TPP 30-148BA; TPP 30-153BA; TPP 30-103B; TPP 30-105B; TPP 30-107B; TPP 30-109B; TPP 30-112B; TPP 30-112.1B; TPP 30-115B; TPP 30-115.1B; TPP 30-118B; TPP 30-124B; TPP 30-128B; TPP 30-136B; TPP 30-148B; TPP 30-153B; TPP 30-103BA-M; TPP 30-105BA-M; TPP 30-107BA-M; TPP 30-109BA-M; TPP 30-112BA-M; TPP 30-112.1BA-M; TPP 30-115BA-M; TPP 30-115.1BA-M; TPP 30-118BA-M; TPP 30-124BA-M; TPP 30-128BA-M; TPP 30-136BA-M; TPP 30-148BA-M; TPP 30-153BA-M; TPP 30-103B-M; TPP 30-105B-M; TPP 30-107B-M; TPP 30-109B-M; TPP 30-112B-M; TPP 30-112.1B-M; TPP 30-115B-M; TPP 30-115.1B-M; TPP 30-118B-M; TPP 30-124B-M; TPP 30-128B-M; TPP 30-136B-M; TPP 30-148B-M; TPP 30-153B-M; TPP 30-103BA2-J; TPP 30-105BA2-J; TPP 30-107BA2-J; TPP 30-109BA2-J; TPP 30-112BA2-J;

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Added Model(s) : TPP 30-112.1BA2-J; TPP 30-115BA2-J; TPP 30-115.1BA2-J; TPP 30-118BA2-J; TPP 30-124BA2-J; TPP 30-128BA2-J; TPP 30-136BA2-J; TPP 30-148BA2-J; TPP 30-153BA2-J; TPP 30-103BA2-M; TPP 30-105BA2-M; TPP 30-107BA2-M; TPP 30-109BA2-M; TPP 30-112BA2-M; TPP 30-112.1BA2-M; TPP 30-115BA2-M; TPP 30-115.1BA2-M; TPP 30-118BA2-M; TPP 30-124BA2-M; TPP 30-128BA2-M; TPP 30-136BA2-M; TPP 30-148BA2-M; TPP 30-153BA2-M; TPP 30-103BA2; TPP 30-105BA2; TPP 30-107BA2; TPP 30-109BA2; TPP 30-112BA2; TPP 30-112.1BA2; TPP 30-115BA2; TPP 30-115.1BA2; TPP 30-118BA2; TPP 30-124BA2; TPP 30-128BA2; TPP 30-136BA2; TPP 30-148BA2; TPP 30-153BA2

Maximum Energy : 19.8~30.74W  
Generated

Model Difference : See the following note

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**Note:** 1. The different between of model numbers are list as below.

Model Name	Output Voltage (Vdc)	Output Current (mA)	Max Output Power (W)	Case Type
TPP 30-103A-J	3.3	6000	19.8	2
TPP 30-105A-J	5	6000	30	2
TPP 30-107A-J	7.5	4000	30	2
TPP 30-109A-J	9	3340	30.06	2
TPP 30-112A-J	12	2500	30	2
TPP 30-112.1A-J	12	2500	30	2
TPP 30-115A-J	15	2000	30	2
TPP 30-115.1A-J	15	2000	30	2
TPP 30-118A-J	18	1670	30.06	2
TPP 30-124A-J	24	1250	30	2
TPP 30-128A-J	28	1080	30.24	2
TPP 30-136A-J	36	840	30.24	2
TPP 30-148A-J	48	630	30.24	2
TPP 30-153A-J	53	580	30.74	2
TPP 30-103-J	3.3	6000	19.8	1
TPP 30-105-J	5	6000	30	1
TPP 30-107-J	7.5	4000	30	1
TPP 30-109-J	9	3340	30.06	1
TPP 30-112-J	12	2500	30	1
TPP 30-112.1-J	12	2500	30	1
TPP 30-115-J	15	2000	30	1
TPP 30-115.1-J	15	2000	30	1
TPP 30-118-J	18	1670	30.06	1
TPP 30-124-J	24	1250	30	1
TPP 30-128-J	28	1080	30.24	1
TPP 30-136-J	36	840	30.24	1
TPP 30-148-J	48	630	30.24	1
TPP 30-153-J	53	580	30.74	1
TPP 30-103A	3.3	6000	19.8	2
TPP 30-105A	5	6000	30	2
TPP 30-107A	7.5	4000	30	2
TPP 30-109A	9	3340	30.06	2
TPP 30-112A	12	2500	30	2
TPP 30-112.1A	12	2500	30	2
TPP 30-115A	15	2000	30	2
TPP 30-115.1A	15	2000	30	2

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Model Name	Output Voltage (Vdc)	Output Current (mA)	Max Output Power (W)	Case Type
TPP 30-118A	18	1670	30.06	2
TPP 30-124A	24	1250	30	2
TPP 30-128A	28	1080	30.24	2
TPP 30-136A	36	840	30.24	2
TPP 30-148A	48	630	30.24	2
TPP 30-153A	53	580	30.74	2
TPP 30-103	3.3	6000	19.8	1
TPP 30-105	5	6000	30	1
TPP 30-107	7.5	4000	30	1
TPP 30-109	9	3340	30.06	1
TPP 30-112	12	2500	30	1
TPP 30-112.1	12	2500	30	1
TPP 30-115	15	2000	30	1
TPP 30-115.1	15	2000	30	1
TPP 30-118	18	1670	30.06	1
TPP 30-124	24	1250	30	1
TPP 30-128	28	1080	30.24	1
TPP 30-136	36	840	30.24	1
TPP 30-148	48	630	30.24	1
TPP 30-153	53	580	30.74	1
TPP 30-103A-M	3.3	6000	19.8	2
TPP 30-105A-M	5	6000	30	2
TPP 30-107A-M	7.5	4000	30	2
TPP 30-109A-M	9	3340	30.06	2
TPP 30-112A-M	12	2500	30	2
TPP 30-112.1A-M	12	2500	30	2
TPP 30-115A-M	15	2000	30	2
TPP 30-115.1A-M	15	2000	30	2
TPP 30-118A-M	18	1670	30.06	2
TPP 30-124A-M	24	1250	30	2
TPP 30-128A-M	28	1080	30.24	2
TPP 30-136A-M	36	840	30.24	2
TPP 30-148A-M	48	630	30.24	2
TPP 30-153A-M	53	580	30.74	2
TPP 30-103-M	3.3	6000	19.8	1
TPP 30-105-M	5	6000	30	1
TPP 30-107-M	7.5	4000	30	1

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Model Name	Output Voltage (Vdc)	Output Current (mA)	Max Output Power (W)	Case Type
TPP 30-109-M	9	3340	30.06	1
TPP 30-112-M	12	2500	30	1
TPP 30-112.1-M	12	2500	30	1
TPP 30-115-M	15	2000	30	1
TPP 30-115.1-M	15	2000	30	1
TPP 30-118-M	18	1670	30.06	1
TPP 30-124-M	24	1250	30	1
TPP 30-128-M	28	1080	30.24	1
TPP 30-136-M	36	840	30.24	1
TPP 30-148-M	48	630	30.24	1
TPP 30-153-M	53	580	30.74	1
TPP 30-103A-D	3.3	6000	19.8	2
TPP 30-105A-D	5	6000	30	2
TPP 30-107A-D	7.5	4000	30	2
TPP 30-109A-D	9	3340	30.06	2
TPP 30-112A-D	12	2500	30	2
TPP 30-112.1A-D	12	2500	30	2
TPP 30-115A-D	15	2000	30	2
TPP 30-115.1A-D	15	2000	30	2
TPP 30-118A-D	18	1670	30.06	2
TPP 30-124A-D	24	1250	30	2
TPP 30-128A-D	28	1080	30.24	2
TPP 30-136A-D	36	840	30.24	2
TPP 30-148A-D	48	630	30.24	2
TPP 30-153A-D	53	580	30.74	2
TPP 30-103-D	3.3	6000	19.8	1
TPP 30-105-D	5	6000	30	1
TPP 30-107-D	7.5	4000	30	1
TPP 30-109-D	9	3340	30.06	1
TPP 30-112-D	12	2500	30	1
TPP 30-112.1-D	12	2500	30	1
TPP 30-115-D	15	2000	30	1
TPP 30-115.1-D	15	2000	30	1
TPP 30-118-D	18	1670	30.06	1
TPP 30-124-D	24	1250	30	1
TPP 30-128-D	28	1080	30.24	1

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Model Name	Output Voltage (Vdc)	Output Current (mA)	Max Output Power (W)	Case Type
TPP 30-136-D	36	840	30.24	1
TPP 30-148-D	48	630	30.24	1
TPP 30-153-D	53	580	30.74	1
TPP 30-103A2-J	3.3	6000	19.8	1
TPP 30-105A2-J	5	6000	30	1
TPP 30-107A2-J	7.5	4000	30	1
TPP 30-109A2-J	9	3340	30.06	1
TPP 30-112A2-J	12	2500	30	1
TPP 30-112.1A2-J	12	2500	30	1
TPP 30-115A2-J	15	2000	30	1
TPP 30-115.1A2-J	15	2000	30	1
TPP 30-118A2-J	18	1670	30.06	1
TPP 30-124A2-J	24	1250	30	1
TPP 30-128A2-J	28	1080	30.24	1
TPP 30-136A2-J	36	840	30.24	1
TPP 30-148A2-J	48	630	30.24	1
TPP 30-153A2-J	53	580	30.74	1
TPP 30-103A2-M	3.3	6000	19.8	1
TPP 30-105A2-M	5	6000	30	1
TPP 30-107A2-M	7.5	4000	30	1
TPP 30-109A2-M	9	3340	30.06	1
TPP 30-112A2-M	12	2500	30	1
TPP 30-112.1A2-M	12	2500	30	1
TPP 30-115A2-M	15	2000	30	1
TPP 30-115.1A2-M	15	2000	30	1
TPP 30-118A2-M	18	1670	30.06	1
TPP 30-124A2-M	24	1250	30	1
TPP 30-128A2-M	28	1080	30.24	1
TPP 30-136A2-M	36	840	30.24	1
TPP 30-148A2-M	48	630	30.24	1
TPP 30-153A2-M	53	580	30.74	1
TPP 30-103A2	3.3	6000	19.8	1
TPP 30-105A2	5	6000	30	1
TPP 30-107A2	7.5	4000	30	1
TPP 30-109A2	9	3340	30.06	1
TPP 30-112A2	12	2500	30	1

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Model Name	Output Voltage (Vdc)	Output Current (mA)	Max Output Power (W)	Case Type
TPP 30-112.1A2	12	2500	30	1
TPP 30-115A2	15	2000	30	1
TPP 30-115.1A2	15	2000	30	1
TPP 30-118A2	18	1670	30.06	1
TPP 30-124A2	24	1250	30	1
TPP 30-128A2	28	1080	30.24	1
TPP 30-136A2	36	840	30.24	1
TPP 30-148A2	48	630	30.24	1
TPP 30-153A2	53	580	30.74	1
TPP 30-103BA-J	3.3	6000	19.8	2
TPP 30-105BA-J	5	6000	30	2
TPP 30-107BA-J	7.5	4000	30	2
TPP 30-109BA-J	9	3340	30.06	2
TPP 30-112BA-J	12	2500	30	2
TPP 30-112.1BA-J	12	2500	30	2
TPP 30-115BA-J	15	2000	30	2
TPP 30-115.1BA-J	15	2000	30	2
TPP 30-118BA-J	18	1670	30.06	2
TPP 30-124BA-J	24	1250	30	2
TPP 30-128BA-J	28	1080	30.24	2
TPP 30-136BA-J	36	840	30.24	2
TPP 30-148BA-J	48	630	30.24	2
TPP 30-153BA-J	53	580	30.74	2
TPP 30-103B-J	3.3	6000	19.8	1
TPP 30-105B-J	5	6000	30	1
TPP 30-107B-J	7.5	4000	30	1
TPP 30-109B-J	9	3340	30.06	1
TPP 30-112B-J	12	2500	30	1
TPP 30-112.1B-J	12	2500	30	1
TPP 30-115B-J	15	2000	30	1
TPP 30-115.1B-J	15	2000	30	1
TPP 30-118B-J	18	1670	30.06	1
TPP 30-124B-J	24	1250	30	1
TPP 30-128B-J	28	1080	30.24	1
TPP 30-136B-J	36	840	30.24	1
TPP 30-148B-J	48	630	30.24	1
TPP 30-153B-J	53	580	30.74	1

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Model Name	Output Voltage (Vdc)	Output Current (mA)	Max Output Power (W)	Case Type
TPP 30-103BA	3.3	6000	19.8	2
TPP 30-105BA	5	6000	30	2
TPP 30-107BA	7.5	4000	30	2
TPP 30-109BA	9	3340	30.06	2
TPP 30-112BA	12	2500	30	2
TPP 30-112.1BA	12	2500	30	2
TPP 30-115BA	15	2000	30	2
TPP 30-115.1BA	15	2000	30	2
TPP 30-118BA	18	1670	30.06	2
TPP 30-124BA	24	1250	30	2
TPP 30-128BA	28	1080	30.24	2
TPP 30-136BA	36	840	30.24	2
TPP 30-148BA	48	630	30.24	2
TPP 30-153BA	53	580	30.74	2
TPP 30-103B	3.3	6000	19.8	1
TPP 30-105B	5	6000	30	1
TPP 30-107B	7.5	4000	30	1
TPP 30-109B	9	3340	30.06	1
TPP 30-112B	12	2500	30	1
TPP 30-112.1B	12	2500	30	1
TPP 30-115B	15	2000	30	1
TPP 30-115.1B	15	2000	30	1
TPP 30-118B	18	1670	30.06	1
TPP 30-124B	24	1250	30	1
TPP 30-128B	28	1080	30.24	1
TPP 30-136B	36	840	30.24	1
TPP 30-148B	48	630	30.24	1
TPP 30-153B	53	580	30.74	1
TPP 30-103BA-M	3.3	6000	19.8	2
TPP 30-105BA-M	5	6000	30	2
TPP 30-107BA-M	7.5	4000	30	2
TPP 30-109BA-M	9	3340	30.06	2
TPP 30-112BA-M	12	2500	30	2
TPP 30-112.1BA-M	12	2500	30	2
TPP 30-115BA-M	15	2000	30	2
TPP 30-115.1BA-M	15	2000	30	2

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Model Name	Output Voltage (Vdc)	Output Current (mA)	Max Output Power (W)	Case Type
TPP 30-118BA-M	18	1670	30.06	2
TPP 30-124BA-M	24	1250	30	2
TPP 30-128BA-M	28	1080	30.24	2
TPP 30-136BA-M	36	840	30.24	2
TPP 30-148BA-M	48	630	30.24	2
TPP 30-153BA-M	53	580	30.74	2
TPP 30-103B-M	3.3	6000	19.8	1
TPP 30-105B-M	5	6000	30	1
TPP 30-107B-M	7.5	4000	30	1
TPP 30-109B-M	9	3340	30.06	1
TPP 30-112B-M	12	2500	30	1
TPP 30-112.1B-M	12	2500	30	1
TPP 30-115B-M	15	2000	30	1
TPP 30-115.1B-M	15	2000	30	1
TPP 30-118B-M	18	1670	30.06	1
TPP 30-124B-M	24	1250	30	1
TPP 30-128B-M	28	1080	30.24	1
TPP 30-136B-M	36	840	30.24	1
TPP 30-148B-M	48	630	30.24	1
TPP 30-153B-M	53	580	30.74	1
TPP 30-103BA2-J	3.3	6000	19.8	1
TPP 30-105BA2-J	5	6000	30	1
TPP 30-107BA2-J	7.5	4000	30	1
TPP 30-109BA2-J	9	3340	30.06	1
TPP 30-112BA2-J	12	2500	30	1
TPP 30-112.1BA2-J	12	2500	30	1
TPP 30-115BA2-J	15	2000	30	1
TPP 30-115.1BA2-J	15	2000	30	1
TPP 30-118BA2-J	18	1670	30.06	1
TPP 30-124BA2-J	24	1250	30	1
TPP 30-128BA2-J	28	1080	30.24	1
TPP 30-136BA2-J	36	840	30.24	1
TPP 30-148BA2-J	48	630	30.24	1
TPP 30-153BA2-J	53	580	30.74	1

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Model Name	Output Voltage (Vdc)	Output Current (mA)	Max Output Power (W)	Case Type
TPP 30-103BA2-M	3.3	6000	19.8	1
TPP 30-105BA2-M	5	6000	30	1
TPP 30-107BA2-M	7.5	4000	30	1
TPP 30-109BA2-M	9	3340	30.06	1
TPP 30-112BA2-M	12	2500	30	1
TPP 30-112.1BA2-M	12	2500	30	1
TPP 30-115BA2-M	15	2000	30	1
TPP 30-115.1BA2-M	15	2000	30	1
TPP 30-118BA2-M	18	1670	30.06	1
TPP 30-124BA2-M	24	1250	30	1
TPP 30-128BA2-M	28	1080	30.24	1
TPP 30-136BA2-M	36	840	30.24	1
TPP 30-148BA2-M	48	630	30.24	1
TPP 30-153BA2-M	53	580	30.74	1
TPP 30-103BA2	3.3	6000	19.8	1
TPP 30-105BA2	5	6000	30	1
TPP 30-107BA2	7.5	4000	30	1
TPP 30-109BA2	9	3340	30.06	1
TPP 30-112BA2	12	2500	30	1
TPP 30-112.1BA2	12	2500	30	1
TPP 30-115BA2	15	2000	30	1
TPP 30-115.1BA2	15	2000	30	1
TPP 30-118BA2	18	1670	30.06	1
TPP 30-124BA2	24	1250	30	1
TPP 30-128BA2	28	1080	30.24	1
TPP 30-136BA2	36	840	30.24	1
TPP 30-148BA2	48	630	30.24	1
TPP 30-153BA2	53	580	30.74	1

2. There are two types of appearance for sales. The difference of two types is with/without case. Please refer to the following table and external photograph for detail information.

Type	Case
Type 1	○
Type 2	X

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### 1.3 Details of EUT

Power Supply	: AC 100~240V, 50~60Hz
Modes/Function	: Mode 1: TPP 30-105A-J / Operation(Full Load) Mode 2: TPP 30-105BA-J / Operation(Full Load) + ground Mode 3: TPP 30-105 / Operation(Full Load)
Highest operate description	: <108MHz

### 1.4 The worst case of the EUT

EUT will be carried out in the worst case as followings:

Worst Case	
CE	Mode 1 ~ 3
RE	Mode 1 ~ 3

### 1.5 Description of Support Units

Mode 1~3:

PRODUCT	MANUFACTURER	MODEL NO.	SERIAL NO.
Load	SGS	N/A	N/A

### Support Equipment Used in Tested Cable

Mode 1~3:

Cable Type	Core	Length	Shielding/Non-shielding
N/A	N/A	N/A	N/A

### 1.6 Operation Procedure

Mode 1~3:

1. EUT link to power and load.
2. Begin the test.

### 1.7 Modification List

No modification was made by SGS Taiwan Electronics & Communication Laboratory.

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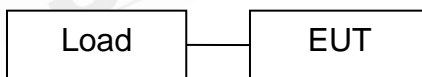
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## 1.8 Test Set-Up Configuration

Mode 1~3:



## 1.9 Accessories Cable List

Cable Type	Core	Length	Shielding/Non-shielding
N/A	N/A	N/A	N/A

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### 1.10 Measurement Procedure

Conducted Emission Testing was performed according to ANSI C63.4:2014 in a shielded room with peripherals placed on a table, 0.8m high over a metal floor. It was located more than required distance away from the shielded room wall.

Radiated Emission Testing was performed according to ANSI C63.4:2014 at the 3/10m semi-anechoic chamber. The EUT was placed on a 0.8m high table along with the peripherals. The turn table was placed 10m distance from the antenna. Cables were placed in a position to produce maximum emissions as determined by experimentation, and operation mode was selected for production of maximum emission.

The frequencies and amplitudes of maximum emission were measured at varying azimuths, antenna heights and antenna polarities. Maximum emission levels are then reported.

### 1.11 Standards Applicable for Testing

Tests to be carried out under FCC Part 15, Subpart B/CISPR 22

Test Standards	Status
FCC Part 15, Subpart B	Applicable
Deviation from Standard	No deviation

### 1.12 Summary of Results

Highest Emission					
Standard	Test Type	Result	Phase/Pol.	Frequency(MHz)	Margin(dB)
FCC Part 15 Subpart B Class B	Conducted Emission	PASS	Line	0.1620	-5.04 (QP)
			Neutral	0.1620	-5.67 (QP)
	Radiated Emission	PASS	Hor.	140.5800	-5.66 (Peak)

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## 2. EMISSION

### 2.1 Test Results

	Results
Conducted Emission	Pass
Radiated Emission	Pass

### 2.2 Frequency Range

#### FCC Part 15, Subpart B:

Conducted Emission : 150 kHz - 30 MHz

Radiated Emission : See below table

Highest frequency generated or Upper frequency of measurement  
used in the device or on which the range (MHz)  
device operates or tunes (MHz)

Below 1.705	30
1.705 - 108	1000
108 - 500	2000
500 - 1000	5000
Above 1000	5th harmonic of the highest frequency or 40 GHz, whichever is lower

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## 2.3 Limits of Conducted and Radiated Emission

### 2.3.1 Limits of Conducted Emission

#### FCC Part 15, Subpart B/CISPR 22:

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 linearly with the logarithm of the frequency in the range 0.15 to 0.50 MHz.

(3) All emanation from a class A/B digital device or system, including any network of conductors and apparatus connected there to, shall not exceed the level of field strengths specified above.

### 2.3.2 Limits of Radiated Emissions

#### FCC Part 15, Subpart B Limit:

- Detector Function : Quasi – Peak

FREQUENCY (MHz)	Class A (at 10m)	Class B (at 3m)
	dBuV/m	dBuV/m
30~88	39	40
88~216	43.5	43.5
216~960	46.44	46
Above 960	49.54	54

- Detector Function : Peak , Average

FREQUENCY (MHz)	Class A (dBuV/m) (at 3m)		Class B (dBuV/m) (at 3m)	
	Peak	Average	Peak	Average
Above 1000-18000	79.3	59.3	73.9	53.9

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**CISPR 22 Limit:**

- Detector Function : Quasi – Peak

FREQUENCY (MHz)	Class A (at 10m)	Class B (at 10m)
	dBuV/m	dBuV/m
30-230	40	30
230-1000	47	37

NOTE 1 The lower limit shall apply at the transition frequency.

NOTE 2 Additional provisions may be required for cases where interference occurs.

FREQUENCY (GHz)	Class A (dBuV/m) (at 3m)		Class B (dBuV/m) (at 3m)	
	Average	Peak	Average	Peak
1~3	56	76	50	70
3~6	60	80	54	74

NOTE The lower limit applies at the transition frequency.

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## 2.4. Test of Conducted Emission

### 2.4.1 Test Equipments

SGS Conducted Emission HWAYA Conducted Room No.A EMC					
EQUIPMENT TYPE	Manufacturer	Model Number	Serial Number	Calibration Date	Calibration Due
EMI Test Receiver	R&S	ESCI 3	101311	2017/6/23	2018/6/22
Coaxial Cables	EMC Instruments Corp	EMCRG58-BM-BM-3000	160812	2017/8/30	2018/8/29
LISN	SCHWARZBECK	NSLK 8127	8127-648	2017/6/18	2018/6/17
Pulse Limiter	Narda S.T.S.	PMM PL01	1110X30602	2017/8/12	2018/8/11
LISN	Schwarzbeck	NSLK 8128	NSLK8128-300	2017/9/4	2018/9/3
Test S/W	Farad	EZ-EMC	Ver. SGS-03A2	N.C.R.	N.C.R.
SGS Taiwan LTD. Electronics & Communication Laboratory No.2, Keji 1st Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.) Measurement Uncertainty of Conducted Emission Expanded uncertainty (K=2) of conducted emission is 2.25 dB Expanded uncertainty (K=2) of ISN conducted emission is 2.57 dB					

### 2.4.2 Operating Environment

Temperature : 24 degree C

Humidity : 65 %RH

Atmospheric Pressure : 992 mBar

### 2.4.3 Measurement Level Calculation

Factor = LISN insertion loss + Cable loss+ Pulse Limiter Insertion Loss

Measurement Level = Reading Level + Factor

Over (Margin) = Measurement Level – Limit

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## 2.4.4 Measurement Data:

Model No.: TPP 30-105A-J

Mode\_1\_L

Site : Conduction Room Phase: L1 Temperature: 24 °C  
Limit: FCC Class B Conduction(QP) Power: AC 120V/60Hz Humidity: 65 %  
Mode: Mode\_1  
Note:

## Conducted Emission



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	*	0.1620	40.67	19.65	60.32	65.36	-5.04	QP	
2		0.1620	29.43	19.65	49.08	55.36	-6.28	AVG	
3		0.1940	33.70	19.64	53.34	63.86	-10.52	QP	
4		0.1940	22.99	19.64	42.63	53.86	-11.23	AVG	
5		0.2300	28.70	19.69	48.39	62.45	-14.06	QP	
6		0.2300	19.10	19.69	38.79	52.45	-13.66	AVG	
7		0.2620	26.89	19.74	46.63	61.37	-14.74	QP	
8		0.2620	19.20	19.74	38.94	51.37	-12.43	AVG	
9		0.4340	23.30	20.02	43.32	57.18	-13.86	QP	
10		0.4340	17.60	20.02	37.62	47.18	-9.56	AVG	
11		1.4380	18.25	20.16	38.41	56.00	-17.59	QP	
12		1.4380	11.50	20.16	31.66	46.00	-14.34	AVG	

\*:Maximum data x:Over limit !:over margin

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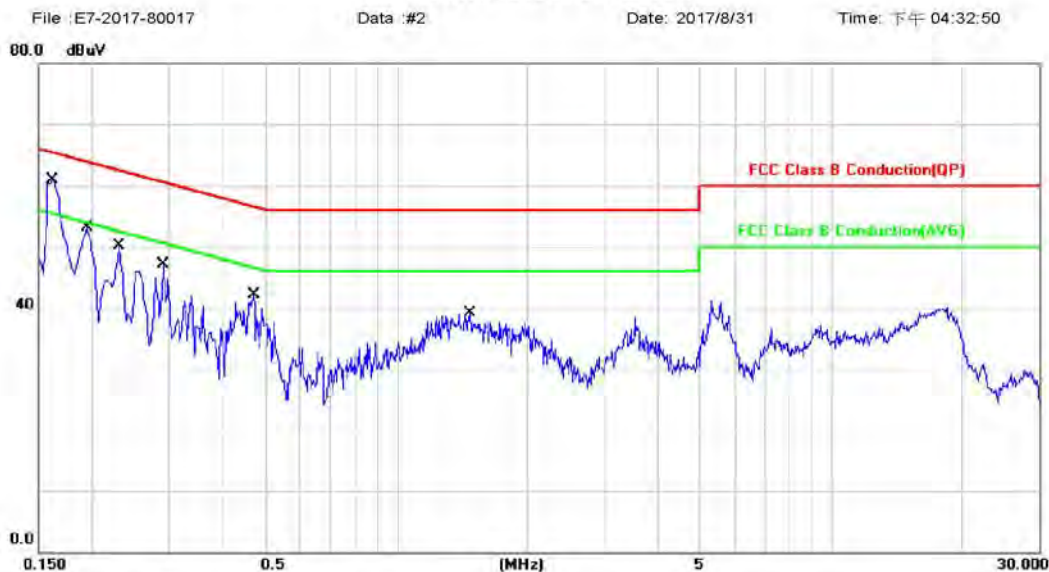
## Mode\_1\_N

Site : Conduction Room  
Limit: FCC Class B Conduction(QP)  
Mode: Mode\_1  
Note:

Phase: N  
Power: AC 120V/60Hz

Temperature: 24 °C  
Humidity: 65 %

## Conducted Emission



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	*	0.1620	40.19	19.50	59.69	65.36	-5.67	QP	
2		0.1620	29.21	19.50	48.71	55.36	-6.65	AVG	
3		0.1940	33.31	19.49	52.80	63.86	-11.06	QP	
4		0.1940	22.06	19.49	41.55	53.86	-12.31	AVG	
5		0.2300	28.25	19.54	47.79	62.45	-14.66	QP	
6		0.2300	16.42	19.54	35.96	52.45	-16.49	AVG	
7		0.2900	25.83	19.64	45.47	60.52	-15.05	QP	
8		0.2900	15.85	19.64	35.49	50.52	-15.03	AVG	
9		0.4700	17.53	19.94	37.47	56.51	-19.04	QP	
10		0.4700	11.55	19.94	31.49	46.51	-15.02	AVG	
11		1.4780	15.41	20.04	35.45	56.00	-20.55	QP	
12		1.4780	7.82	20.04	27.86	46.00	-18.14	AVG	

\*:Maximum data x:Over limit !:over margin

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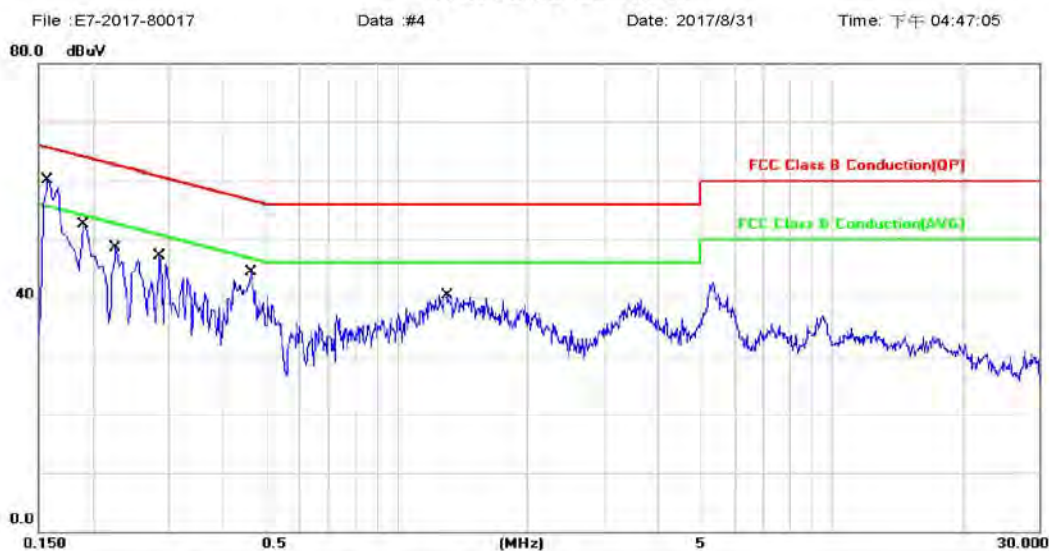
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## Model No.: TPP 30-105BA-J

## Mode\_2\_L

Site : Conduction Room Phase: **L1** Temperature: 24 ℃  
 Limit: FCC Class B Conduction(QP) Power: AC 120V/60Hz Humidity: 65 %  
 Mode: Mode\_2  
 Note:

## Conducted Emission



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1	*	0.1580	39.82	19.65	59.47	65.57	-6.10	QP	
2		0.1580	28.50	19.65	48.15	55.57	-7.42	AVG	
3		0.1900	32.80	19.64	52.44	64.04	-11.60	QP	
4		0.1900	21.60	19.64	41.24	54.04	-12.80	AVG	
5		0.2260	27.36	19.68	47.04	62.60	-15.56	QP	
6		0.2260	19.38	19.68	39.06	52.60	-13.54	AVG	
7		0.2860	26.00	19.78	45.78	60.64	-14.86	QP	
8		0.2860	19.20	19.78	38.98	50.64	-11.66	AVG	
9		0.4620	23.00	20.07	43.07	56.66	-13.59	QP	
10		0.4620	18.50	20.07	38.57	46.66	-8.09	AVG	
11		1.3060	18.50	20.06	38.56	56.00	-17.44	QP	
12		1.3060	11.50	20.06	31.56	46.00	-14.44	AVG	

\*:Maximum data x:Over limit !:over margin

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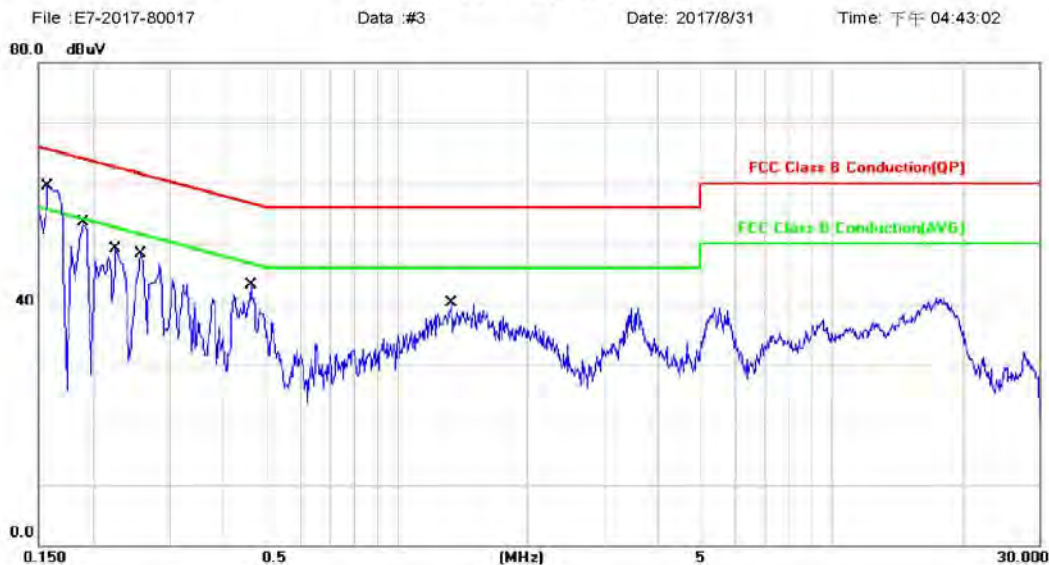
## Mode\_2\_N

Site : Conduction Room  
Limit: FCC Class B Conduction(QP)  
Mode: Mode\_2  
Note:

Phase: N  
Power: AC 120V/60Hz

Temperature: 24 ℃  
Humidity: 65 %

## Conducted Emission



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV	dBuV	dB		
1	*	0.1580	39.81	19.50	59.31	65.57	-6.26	QP	
2		0.1580	28.50	19.50	48.00	55.57	-7.57	AVG	
3		0.1900	33.10	19.49	52.59	64.04	-11.45	QP	
4		0.1900	20.20	19.49	39.69	54.04	-14.35	AVG	
5		0.2260	28.22	19.53	47.75	62.60	-14.85	QP	
6		0.2260	18.69	19.53	38.22	52.60	-14.38	AVG	
7		0.2580	26.43	19.59	46.02	61.50	-15.48	QP	
8		0.2580	18.30	19.59	37.89	51.50	-13.61	AVG	
9		0.4620	21.06	19.93	40.99	56.66	-15.67	QP	
10		0.4620	16.70	19.93	36.63	46.66	-10.03	AVG	
11		1.3420	16.40	19.95	36.35	56.00	-19.65	QP	
12		1.3420	9.91	19.95	29.86	46.00	-16.14	AVG	

\*:Maximum data x:Over limit !:over margin

File :E7-2017-80017>Data :#3

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Model No.: TPP 30-105

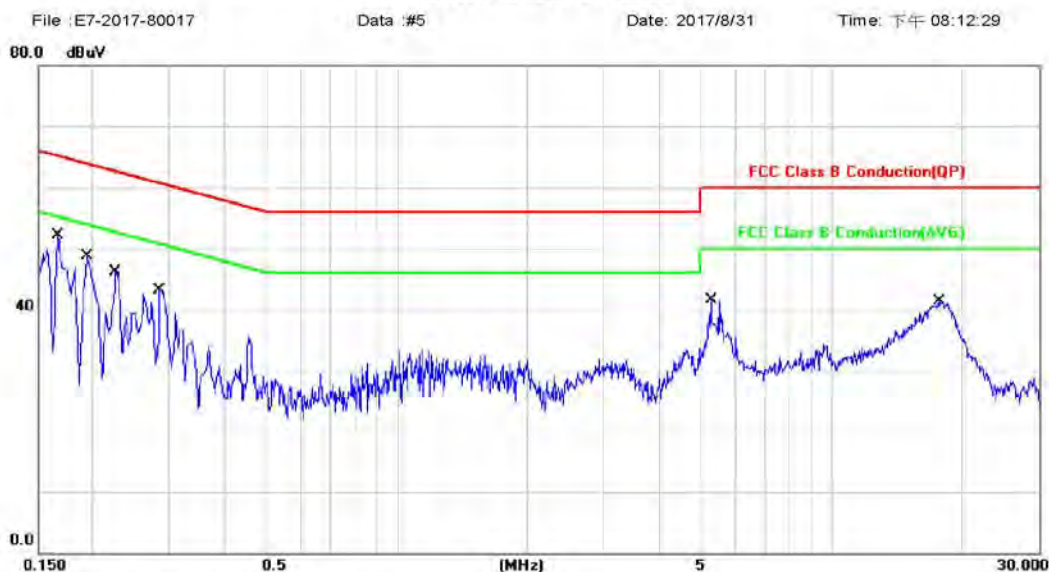
Mode\_3\_L

Site : Conduction Room  
Limit: FCC Class B Conduction(QP)  
Mode: Mode\_3  
Note:

Phase: L1  
Power: AC 120V/60Hz

Temperature: 24 °C  
Humidity: 65 %

## Conducted Emission



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	*	0.1660	35.40	19.65	55.05	65.16	-10.11	QP	
2		0.1660	24.20	19.65	43.85	55.16	-11.31	AVG	
3		0.1940	28.36	19.64	48.00	63.86	-15.86	QP	
4		0.1940	18.09	19.64	37.73	53.86	-16.13	AVG	
5		0.2260	24.96	19.68	44.64	62.60	-17.96	QP	
6		0.2260	16.51	19.68	36.19	52.60	-16.41	AVG	
7		0.2860	21.70	19.78	41.48	60.64	-19.16	QP	
8		0.2860	15.40	19.78	35.18	50.64	-15.46	AVG	
9		5.2900	15.88	20.09	35.97	60.00	-24.03	QP	
10		5.2900	9.46	20.09	29.55	50.00	-20.45	AVG	
11		17.6740	17.53	20.19	37.72	60.00	-22.28	QP	
12		17.6740	12.84	20.19	33.03	50.00	-16.97	AVG	

\*:Maximum data x:Over limit !:over margin

File : E7-2017-80017 Data : #5

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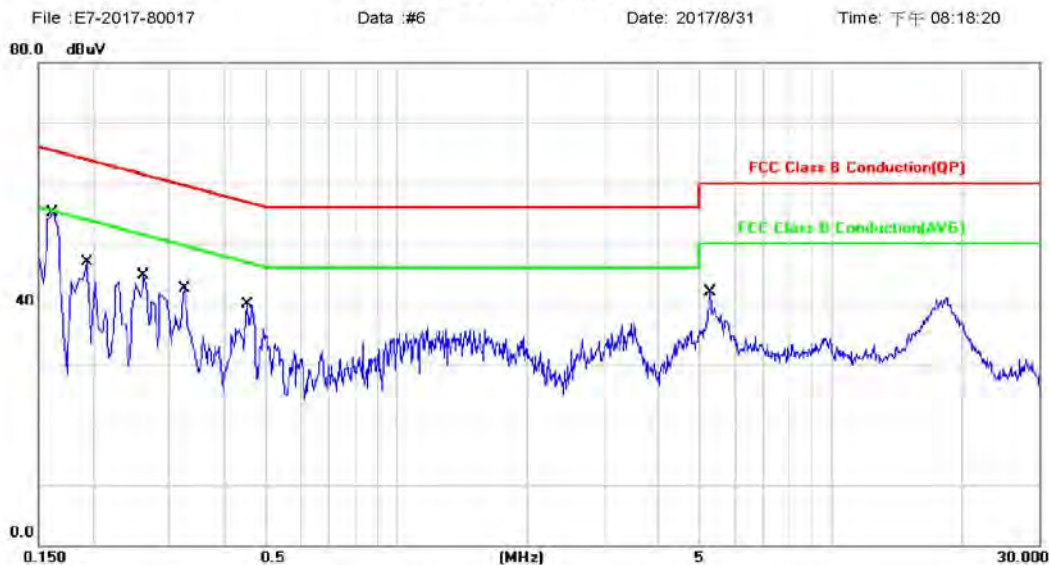
## Mode\_3\_N

Site : Conduction Room  
Limit: FCC Class B Conduction(QP)  
Mode: Mode\_3  
Note:

Phase: N  
Power: AC 120V/60Hz

Temperature: 24 °C  
Humidity: 65 %

## Conducted Emission



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1	*	0.1620	34.66	19.50	54.16	65.36	-11.20	QP	
2		0.1620	23.66	19.50	43.16	55.36	-12.20	AVG	
3		0.1940	28.34	19.49	47.83	63.86	-16.03	QP	
4		0.1940	17.91	19.49	37.40	53.86	-16.46	AVG	
5		0.2620	26.20	19.59	45.79	61.37	-15.58	QP	
6		0.2620	19.20	19.59	38.79	51.37	-12.58	AVG	
7		0.3260	20.19	19.70	39.89	59.55	-19.66	QP	
8		0.3260	14.20	19.70	33.90	49.55	-15.65	AVG	
9		0.4540	17.60	19.91	37.51	56.80	-19.29	QP	
10		0.4540	11.90	19.91	31.81	46.80	-14.99	AVG	
11		5.2580	16.01	19.95	35.96	60.00	-24.04	QP	
12		5.2580	9.88	19.95	29.83	50.00	-20.17	AVG	

\*:Maximum data x:Over limit !:over margin

File : E7-2017-80017 Data : #6

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## 2.5 Test of Radiated Emission

### 2.5.1 Test Equipments

#### Below 1GHz

SGS Radiated_Below_1GHz HWAYA 966A EMC					
EQUIPMENT TYPE	Manufacturer	Model Number	Serial Number	Calibration Date	Calibration Due
EMI Test Receiver	R&S	ESR 7	101459	2017/2/17	2018/2/16
Biconical Antenna	SCHWARZBECK	VULB 9168	9168-297	2017/5/26	2018/5/25
Biconical Antenna	SCHWARZBECK	VHBB 9124	9124-560	2016/12/6	2017/12/5
Log-Periodic Antenna	SCHWARZBECK	UHALP 9108 A	UHALP 9108-A 0990	2016/12/6	2017/12/5
Pre Amplifier	EMC Instruments Corp.	EMC330	980180	2017/5/19	2018/5/18
Coaxial Cable	Huber+Suhner	RG 214/U	539808	2017/4/23	2018/4/22
Coaxial Cable	EMC Instruments	EMC8D-NM-NM-6000	140922	2017/4/23	2018/4/22
Coaxial Cable	NA	8D	SAC-A-0.5M	2017/4/23	2018/4/22
Coaxial Cable	MF	MF-7802	N/A	N.C.R.	N.C.R.
Antenna Master	MF	N/A	N/A	N.C.R.	N.C.R.
Turn Table	MF	N/A	N/A	N.C.R.	N.C.R.
Site NSA	SGS	966 Chamber A	SAC-A	2017/1/12	2018/1/11
Test Software	Farad	EZ-EMC	Ver. SGS-03A2	N.C.R.	N.C.R.
SGS Taiwan LTD. Electronics & Communication Laboratory No.2, Keji 1st Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.) Measurement Uncertainty of Radiated Emission Expanded uncertainty (k=2) of radiated emission measurement is 4.71 dB. (30-1000MHz)					

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### Above 1GHz

SGS Radiated_Above_1GHz HWAYA 966A EMC					
EQUIPMENT TYPE	Manufacturer	Model Number	Serial Number	Calibration Date	Calibration Due
Spectrum Analyzer	R&S	FSV 40	101419	2017/3/1	2018/2/28
EMI Test Receiver	R&S	ESR 7	101459	2017/2/17	2018/2/16
Horn Antenna	SCHWARZBECK	BBHA9120D	BBHA9120D673	2016/10/14	2017/10/13
Horn Antenna	Schwarzbeck	BBHA9170	BBHA9170-184	2016/12/12	2017/12/11
Pre Amplifier	EMC Instruments Corp.	EMC012645B	980216	2017/4/25	2018/4/24
Pre Amplifier	EMC Instruments Corp.	EMC184045B	980135	2016/10/27	2017/10/26
Coaxial Cable	JUNFLOW	MWX221-NMSNMS	J0778929	2017/4/23	2018/4/22
Coaxial Cable	Huber+Suhner	SUCCOFLEX 104PEA	30255/4PEA	2017/4/23	2018/4/22
Coaxial Cable	EMC Instruments	EMC104-SM-SM	140927	2017/4/23	2018/4/22
Coaxial Cable	Huber+Suhner	SUCOFLEX 102	MY 2152/2	2017/6/5	2018/6/4
Coaxial Cable	Huber+Suhner	SUCOFLEX 102	MY 2153/2	2017/6/5	2018/6/4
Controller	MF	MF-7802	N.C.R.	N.C.R.	N.C.R.
Antenna Master	MF	N/A	N/A	N.C.R.	N.C.R.
Turn Table	MF	N/A	N/A	N.C.R.	N.C.R.
Site VSWR	SGS	966 Chamber A	SAC-A	2017/1/12	2018/1/11
Test S/W	Farad	EZ-EMC	Ver. SGS-03A2	N.C.R.	N.C.R.

SGS Taiwan LTD. Electronics & Communication Laboratory  
No.2, Keji 1st Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.)  
Measurement Uncertainty of Radiated Emission  
Expanded uncertainty (k=2) of radiated emission measurement is 5.05 dB. (1-6GHz)  
Expanded uncertainty (k=2) of radiated emission measurement is 5.07 dB. (6-18GHz)  
Expanded uncertainty (k=2) of radiated emission measurement is 5.19 dB. (18-26GHz)  
Expanded uncertainty (k=2) of radiated emission measurement is 5.14 dB. (26-40GHz)

### 2.5.2 Operating Environment

Temperature : 22 degree C

Humidity : 70 %RH

Atmospheric Pressure : 996 mBar

### 2.5.3 Measurement Level Calculation

Correction Factor = Antenna Factor + Cable loss- Amplifier Gain

Measurement Level = Reading Level + Correction Factor

Over (Margin) = Measurement Level – Limit

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## 2.5.4 Measurement Data

Below 1GHz

Model No.: TPP 30-105A-J

Mode\_1\_H

Site: SGS 966 Chamber A	Polarization: <b>Horizontal</b>	Temperature: 22 °C
Limit: FCC Class B 3M Radiation	Power: AC 120V/60Hz	Humidity: 70 %
Mode: Mode_1	Distance:	
Note:		

## Radiated Emission



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		67.8300	35.46	-13.79	21.67	40.00	-18.33	peak	
2		67.8300	29.49	-13.79	15.70	40.00	-24.30	QP	
3		142.5200	43.70	-12.75	30.95	43.50	-12.55	peak	
4		142.5200	38.15	-12.75	25.40	43.50	-18.10	QP	
5 *		149.3100	45.76	-12.34	33.42	43.50	-10.08	peak	
6		149.3100	42.04	-12.34	29.70	43.50	-13.80	QP	
7		220.1200	43.83	-14.29	29.54	46.00	-16.46	peak	
8		220.1200	40.49	-14.29	26.20	46.00	-19.80	QP	
9		254.0700	36.28	-12.42	23.86	46.00	-22.14	peak	
10		254.0700	28.82	-12.42	16.40	46.00	-29.60	QP	
11		277.3500	35.70	-11.59	24.11	46.00	-21.89	peak	
12		277.3500	30.29	-11.59	18.70	46.00	-27.30	QP	

\*: Maximum data x: Over limit !: over margin

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## Mode\_1\_V

Site: SGS 966 Chamber A  
Limit: FCC Class B 3M Radiation  
Mode: Mode\_1  
Note:

Polarization: **Vertical**  
Power: AC 120V/60Hz  
Distance:

Temperature: 22 °C  
Humidity: 70 %

## Radiated Emission



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		
1	*	33.8800	44.64	-12.52	32.12	40.00	-7.88	peak	
2		33.8800	42.32	-12.52	29.80	40.00	-10.20	QP	
3		60.0700	37.95	-12.31	25.64	40.00	-14.36	peak	
4		60.0700	33.61	-12.31	21.30	40.00	-18.70	QP	
5		125.0600	38.03	-14.05	23.98	43.50	-19.52	peak	
6		125.0600	33.75	-14.05	19.70	43.50	-23.80	QP	
7		150.2800	40.00	-12.29	27.71	43.50	-15.79	peak	
8		150.2800	35.99	-12.29	23.70	43.50	-19.80	QP	
9		216.2400	45.45	-14.42	31.03	46.00	-14.97	peak	
10		216.2400	41.52	-14.42	27.10	46.00	-18.90	QP	
11		222.0600	44.62	-14.22	30.40	46.00	-15.60	peak	
12		222.0600	40.82	-14.22	26.60	46.00	-19.40	QP	

\*:Maximum data x:Over limit !:over margin

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Model No.: TPP 30-105BA-J

Mode\_2\_H

Site: SGS 966 Chamber A  
Limit: FCC Class B 3M Radiation  
Mode: Mode\_2  
Note:

Polarization: **Horizontal**  
Power: AC 120V/60Hz  
Distance:

Temperature: 22 °C  
Humidity: 70 %

## Radiated Emission



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	Comment
1		68.8000	35.80	-13.97	21.83	40.00	-18.17	peak	
2		68.8000	28.57	-13.97	14.60	40.00	-25.40	QP	
3		134.7600	38.50	-13.32	25.18	43.50	-18.32	peak	
4		134.7600	32.72	-13.32	19.40	43.50	-24.10	QP	
5		141.5500	42.80	-12.81	29.99	43.50	-13.51	peak	
6		141.5500	37.01	-12.81	24.20	43.50	-19.30	QP	
7 *		149.3100	46.24	-12.34	33.90	43.50	-9.60	peak	
8		149.3100	42.14	-12.34	29.80	43.50	-13.70	QP	
9		224.0000	42.75	-14.14	28.61	46.00	-17.39	peak	
10		224.0000	38.34	-14.14	24.20	46.00	-21.80	QP	
11		275.4100	35.88	-11.72	24.16	46.00	-21.84	peak	
12		275.4100	30.12	-11.72	18.40	46.00	-27.60	QP	

\*:Maximum data x:Over limit !:over margin

File: E7-2017-80017&gt;Data: #10

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## Mode\_2\_V

Site: SGS 966 Chamber A  
Limit: FCC Class B 3M Radiation  
Mode: Mode\_2  
Note:

Polarization: **Vertical**  
Power: AC 120V/60Hz  
Distance:

Temperature: 22 °C  
Humidity: 70 %

## Radiated Emission



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		
1	*	35.8200	44.32	-12.43	31.89	40.00	-8.11	peak	
2		35.8200	40.53	-12.43	28.10	40.00	-11.90	QP	
3		67.8300	39.97	-13.79	26.18	40.00	-13.82	peak	
4		67.8300	35.49	-13.79	21.70	40.00	-18.30	QP	
5		100.8100	41.14	-17.03	24.11	43.50	-19.39	peak	
6		100.8100	36.73	-17.03	19.70	43.50	-23.80	QP	
7		127.0000	38.14	-13.91	24.23	43.50	-19.27	peak	
8		127.0000	33.11	-13.91	19.20	43.50	-24.30	QP	
9		152.2200	40.04	-12.17	27.87	43.50	-15.63	peak	
10		152.2200	34.97	-12.17	22.80	43.50	-20.70	QP	
11		215.2700	45.17	-14.44	30.73	43.50	-12.77	peak	
12		215.2700	39.74	-14.44	25.30	43.50	-18.20	QP	

\*:Maximum data x:Over limit !:over margin

File: E7-2017-80017>Data: #9

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**Model No.: TPP 30-105**  
**Mode 3 H**

Site SGS 966 Chamber A  
Limit: FCC Class B 3M Radiation  
Mode: Mode\_3  
Note:

Polarization: **Horizontal**  
Power: AC 120V/60Hz  
Distance:

Temperature: 22 °C  
Humidity: 70 %

### Radiated Emission

File : E7-2017-80017

Data #12

Date: 2017/9/13

Time: 上午 04:52:17



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	140.5800	50.71	-12.87	37.84	43.50	-5.66	peak	
2		140.5800	47.17	-12.87	34.30	43.50	-9.20	QP	
3		149.3100	48.01	-12.34	35.67	43.50	-7.83	peak	
4		149.3100	44.04	-12.34	31.70	43.50	-11.80	QP	
5		162.8900	36.93	-11.91	25.02	43.50	-18.48	peak	
6		162.8900	32.51	-11.91	20.60	43.50	-22.90	QP	
7		219.1500	42.84	-14.33	28.51	46.00	-17.49	peak	
8		219.1500	38.23	-14.33	23.90	46.00	-22.10	QP	
9		275.4100	40.86	-11.72	29.14	46.00	-16.86	peak	
10		275.4100	36.52	-11.72	24.80	46.00	-21.20	QP	
11		328.7600	41.39	-10.32	31.07	46.00	-14.93	peak	
12		328.7600	37.02	-10.32	26.70	46.00	-19.30	QP	

\*:Maximum data      x:Over limit      !:over margin

File: E7-2017-80017>Data :#12

Page: 1

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## Mode\_3\_V

Site: SGS 966 Chamber A  
Limit: FCC Class B 3M Radiation  
Mode: Mode\_3  
Note:

Polarization: **Vertical**  
Power: AC 120V/60Hz  
Distance:

Temperature: 22 °C  
Humidity: 70 %

## Radiated Emission



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		
1	*	33.8800	45.68	-12.52	33.16	40.00	-6.84	peak	
2		33.8800	42.52	-12.52	30.00	40.00	-10.00	QP	
3		40.6700	42.46	-12.06	30.40	40.00	-9.60	peak	
4		40.6700	37.66	-12.06	25.60	40.00	-14.40	QP	
5		52.3100	41.67	-11.84	29.83	40.00	-10.17	peak	
6		52.3100	36.94	-11.84	25.10	40.00	-14.90	QP	
7		139.6100	42.73	-12.93	29.80	43.50	-13.70	peak	
8		139.6100	39.53	-12.93	26.60	43.50	-16.90	QP	
9		218.1800	44.73	-14.36	30.37	46.00	-15.63	peak	
10		218.1800	39.56	-14.36	25.20	46.00	-20.80	QP	
11		273.4700	38.36	-11.86	26.50	46.00	-19.50	peak	
12		273.4700	32.26	-11.86	20.40	46.00	-25.60	QP	

\*:Maximum data x:Over limit !:over margin

File: E7-2017-80017>Data: #11

Page: 1

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Above 1GHz

N/A

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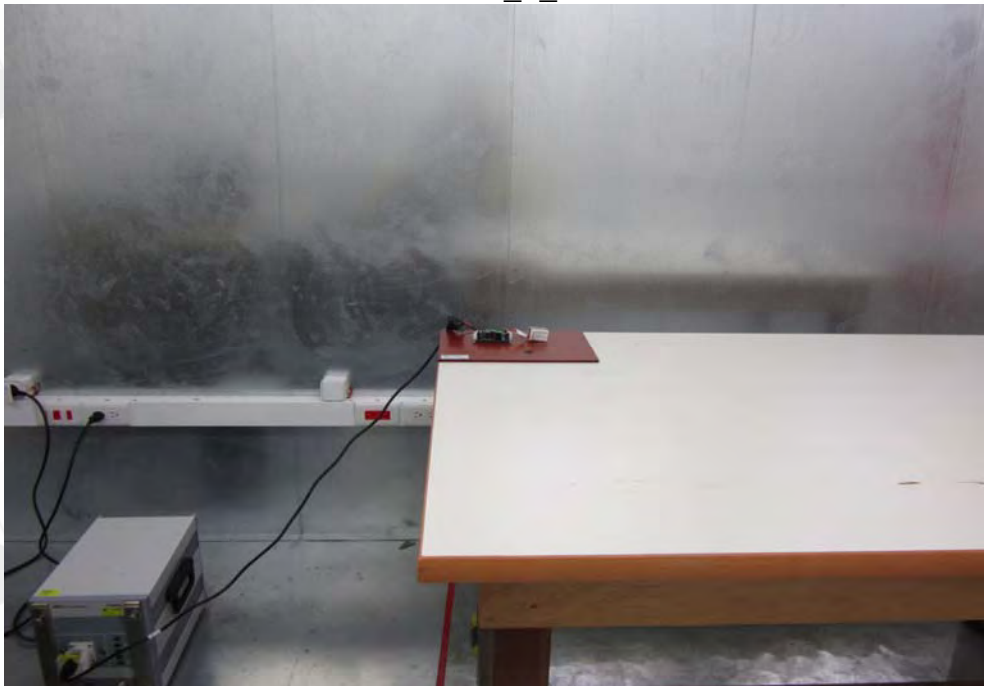
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### 3. Photographs of Test

#### CE Testing Set-up

Model No.: TPP 30-105A-J

Mode\_1\_+



Mode\_1\_-



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Model No.: TPP 30-105BA-J  
Mode\_2\_+



Mode\_2\_-



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Model No.: TPP 30-105  
Mode\_3\_+



Mode\_3\_-



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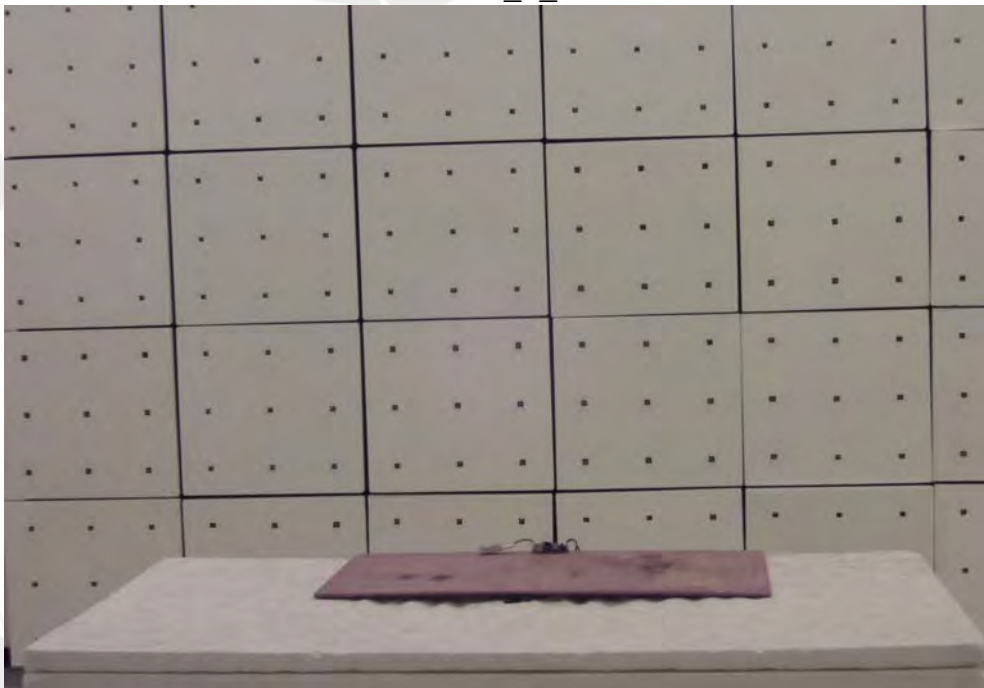
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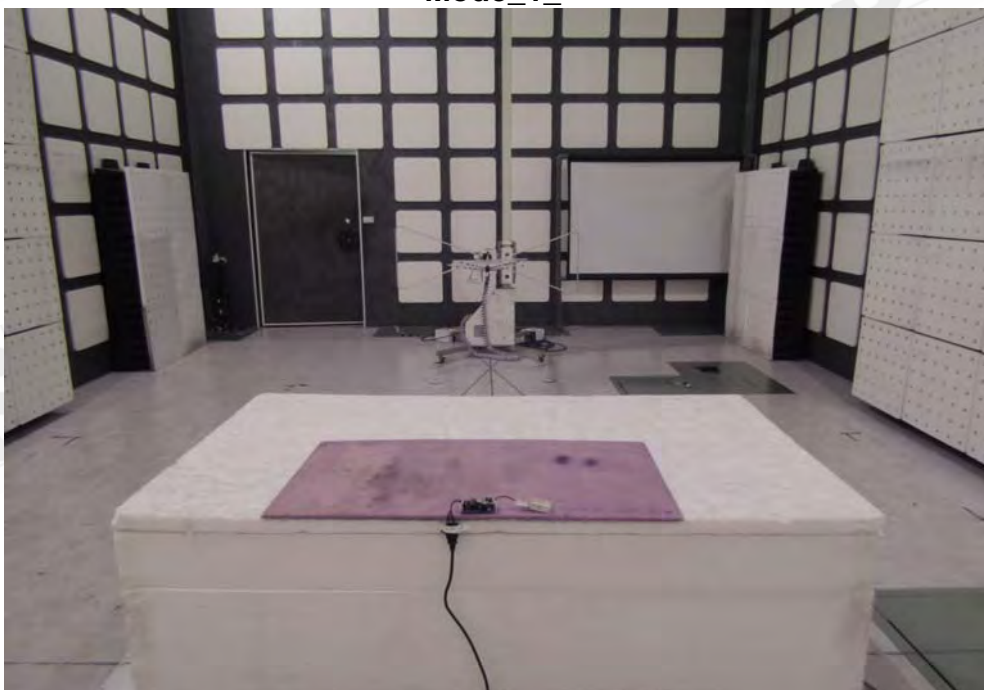
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Mode\_1\_+



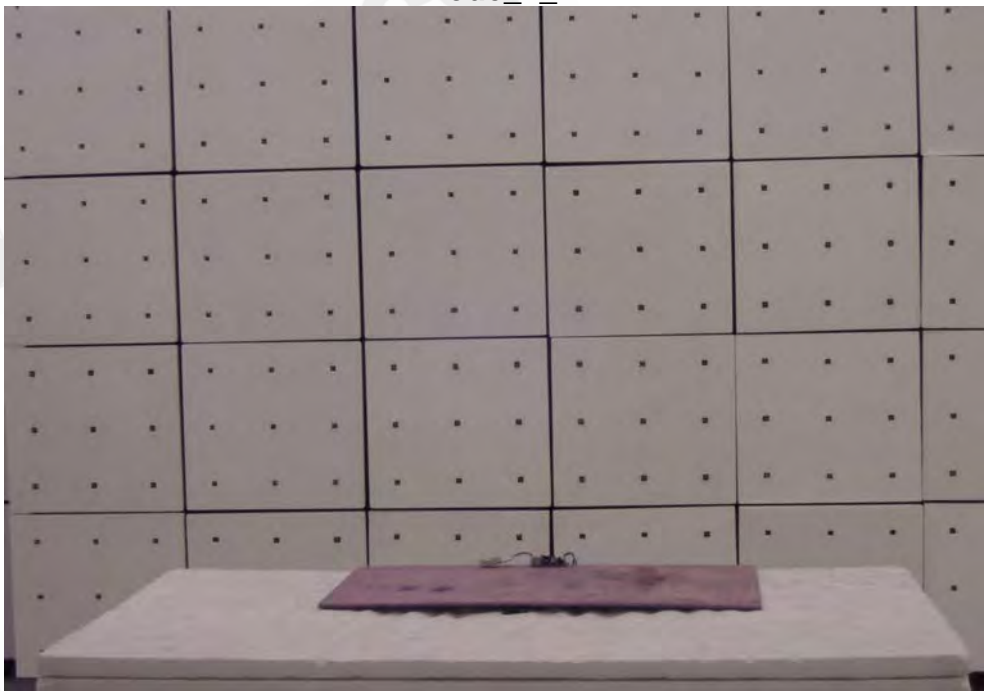
Mode\_1\_-



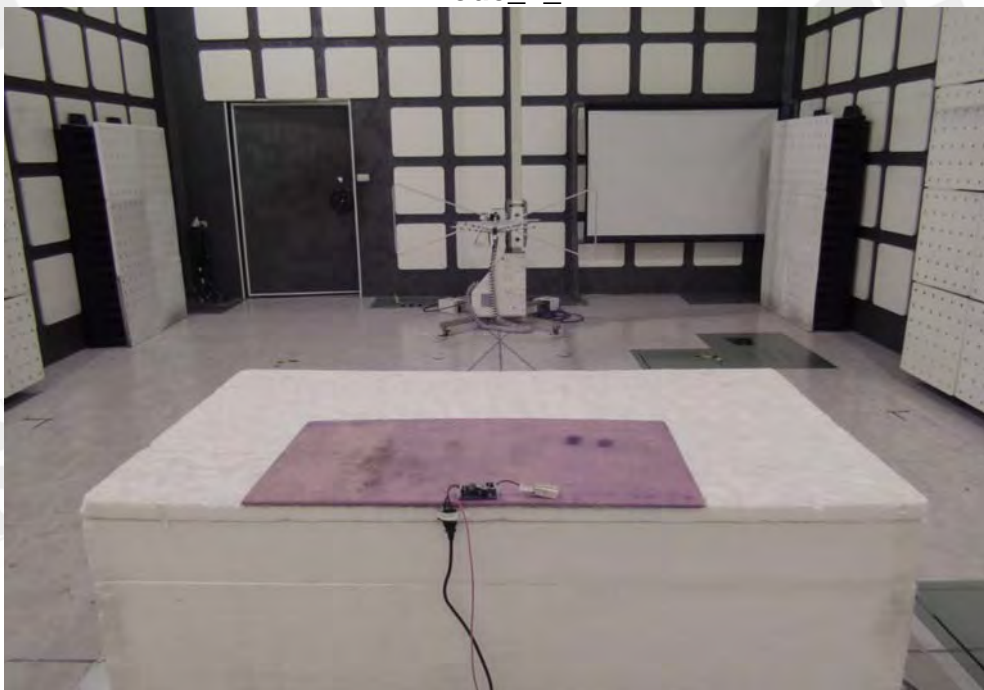
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Model No.: TPP 30-105BA-J  
Mode\_2\_+



Mode\_2\_-



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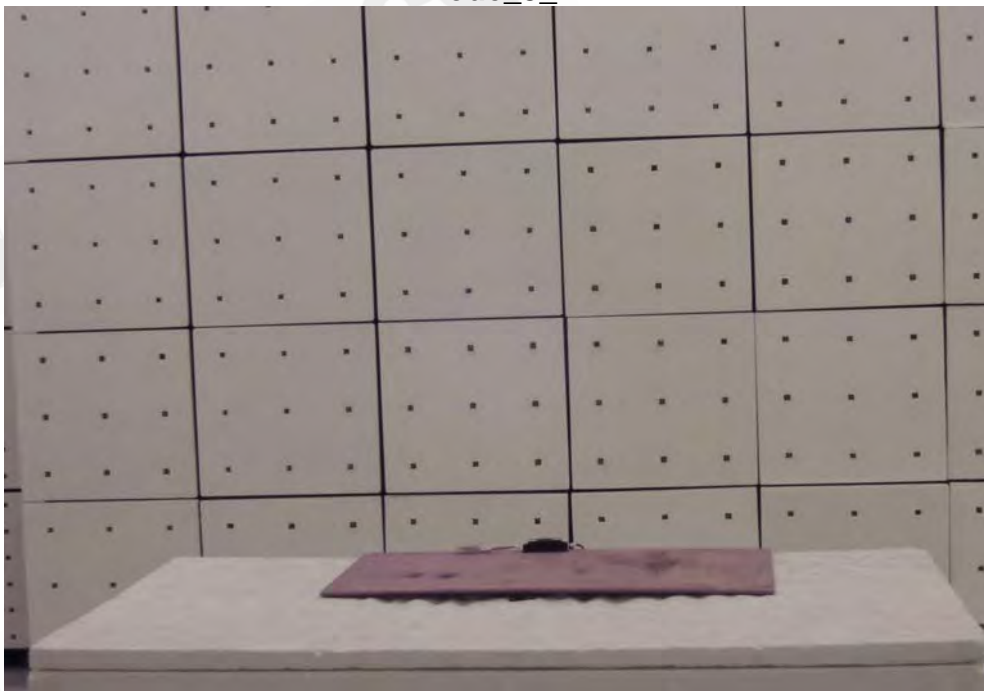
t (886-2) 2299-3279

f (886-2) 2298-0488

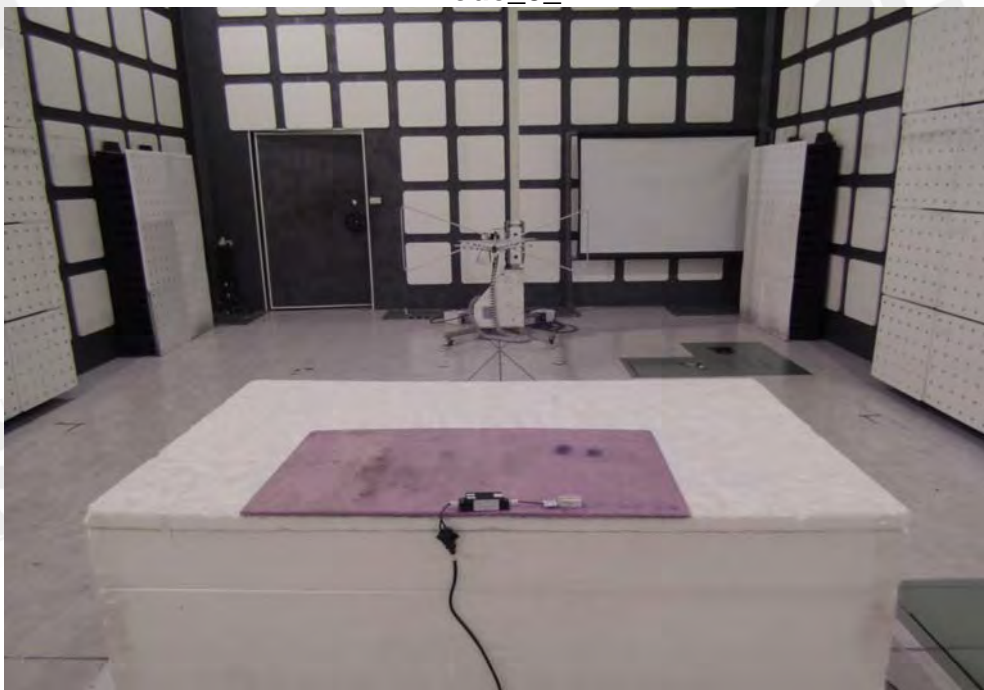
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Model No.: TPP 30-105  
Mode\_3\_+



Mode\_3\_-



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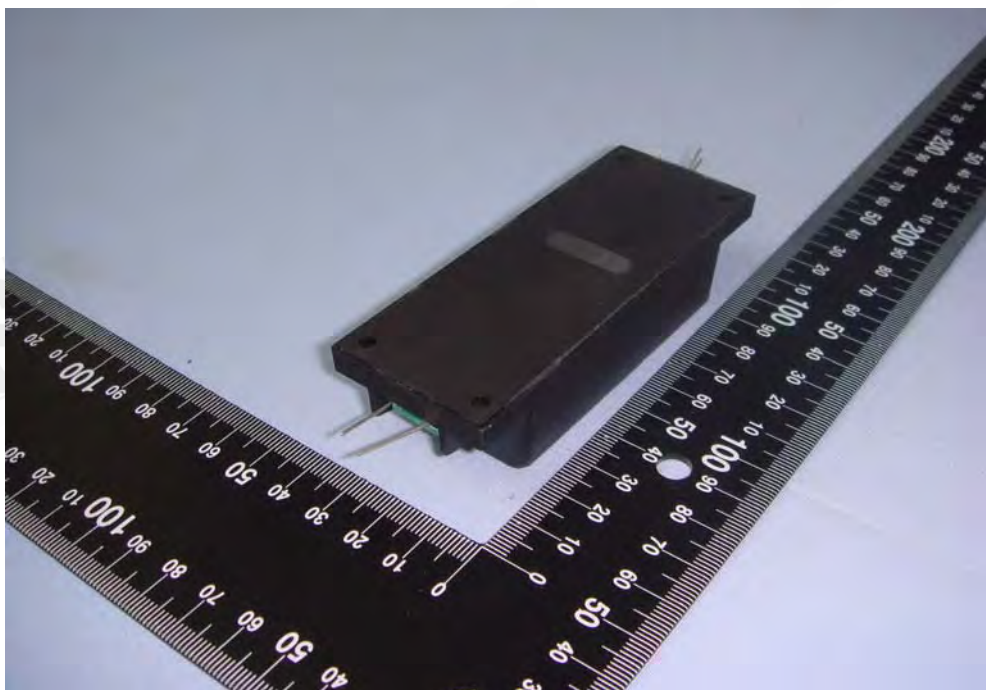
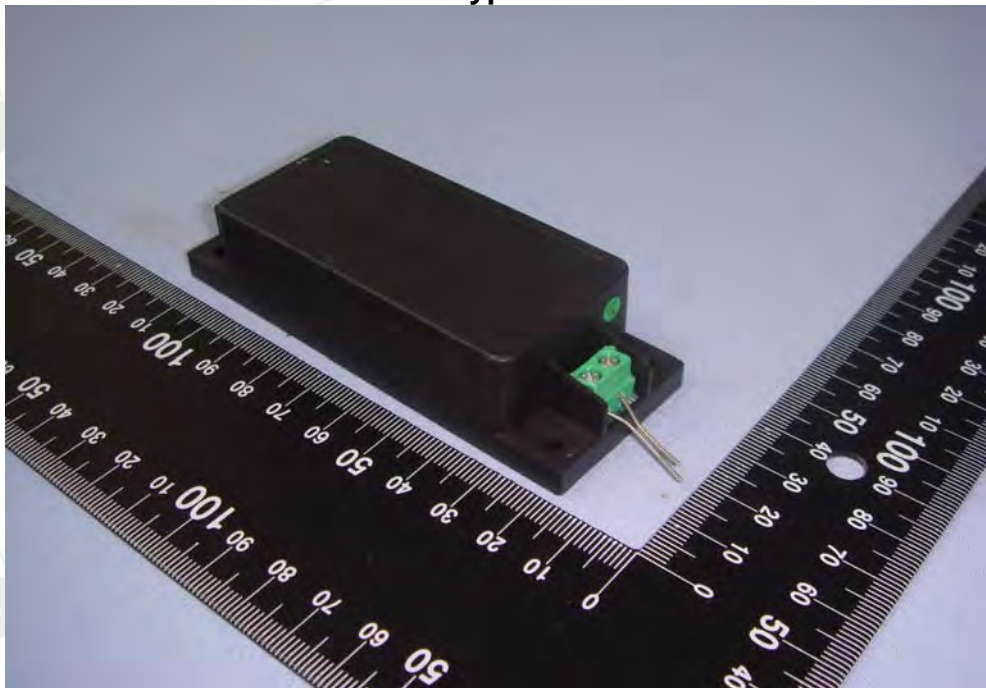
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## 4. Photographs of Product

### Exterior

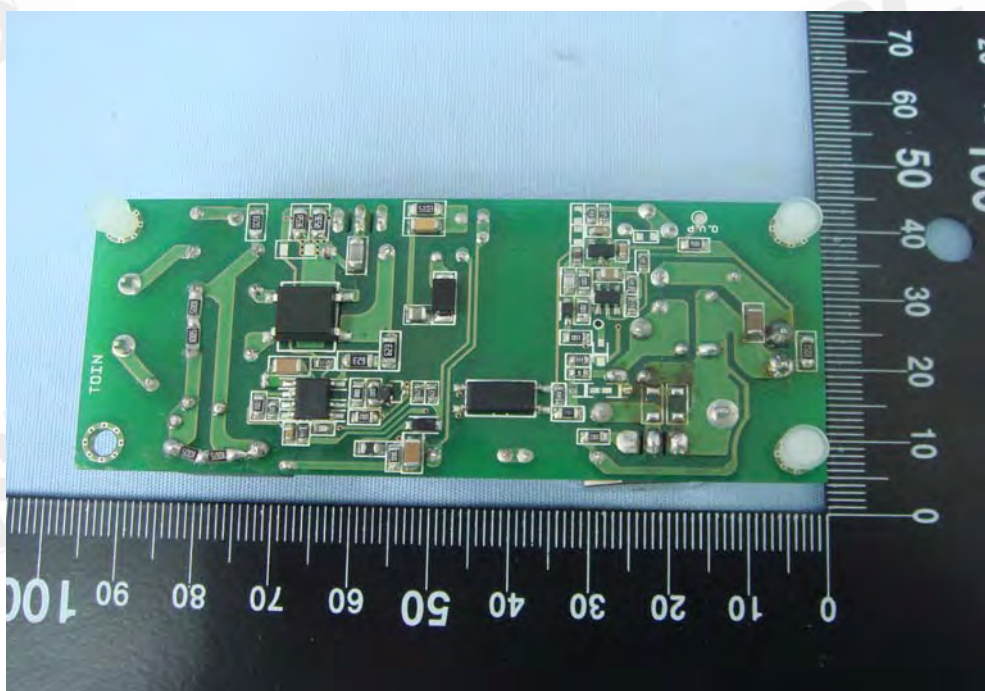
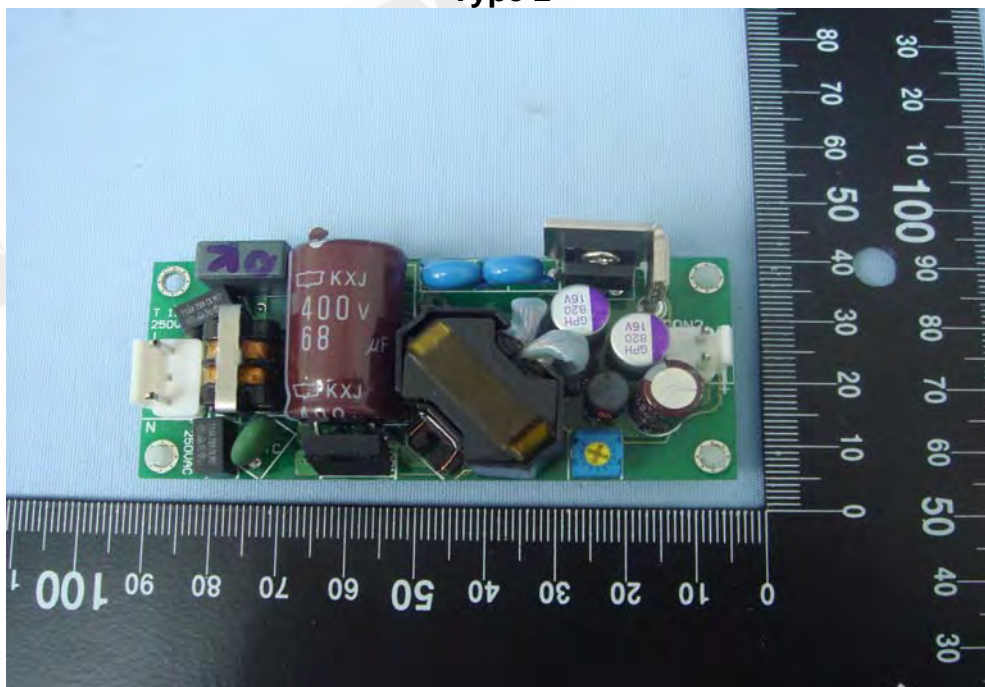
#### Type 1



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Type 2



**\*\*End of Report\*\***

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