

TEST REPORT

上海市计量测试技术研究院  
华东国家计量测试中心  
中国上海测试中心

检 测 报 告

委 托 者 Customer Texas Instruments Semiconductor Technologies (Shanghai) Co., Ltd.

委托者地址 Address of customer 3/F No.72 Liangxiu Road, Pudong New Area, Shanghai

样品名称 Name of sample TPA3136D2EVM

制 造 厂 Manufacturer Texas Instruments Semiconductor Technologies (Shanghai) Co., Ltd.

型号/规格 Model/Specification TPA3136D2EVM

样品编号 No. of sample TPA3136D2EVM

批准人/ 职务 Approved by / Functions

(机构检测专用章)

核 验 员 Checked by

检 测 员 Tested by

检测日期 Date for test 2016 年 Year 04 月 Month 11 日 Day

地址: 上海市张衡路 1500 号(总部) Address No.1500 Zhangheng Road, Shanghai(headquarters)  
电话: 021-38839800 Tel.  
传真: 021-50798390 Fax  
邮编: 201203 Post Code  
客户咨询电话: 800-820-5172 Inquire line  
投诉电话: 021-50798262 Tel. for complaint

国家法定计量检定机构计量授权证书号(中心/院): (国)法计(2012)01039号/(2012)01019号  
The number of the Certificate of Metrological Authorization to The Legal Metrological Verification Institution is No. (2012) 01039/ No. (2012) 01019

中国合格评定国家认可委员会实验室认可证书号: No. CNAS L0134  
The number of the certificate accredited by CNAS is No.L0134

中国国家认证认可监督管理委员会资质认定计量认证证书(CMA)号: 150000110597  
The number of the metrology accreditation certificate by CNCA is No. 150000110597

本次检测所依据的技术规范(代号、名称):  
Reference documents for the test (code, name)

EN 55022:2010 Information technology equipment — Radio disturbance characteristics — Limits and methods of measurement

本次检测所使用的主要测量仪器:  
Main measuring instruments used in this test

Refer to Attachment 1

检测地点及环境条件:  
Location and environmental condition for the test

地点: SIMT EMC, No.716, Yishan Road Shanghai  
Location

温度: 21 °C; 湿度: 50 %RH; 其它: /  
Ambient temperature Relative humidity Others

检测结果/说明:  
Results of test and additional explanation

The testing results refer to the continued pages

(Test date: 2016.04.11)

本报告提供的结果仅对本次被测的样品有效。  
The data are valid only for the sample(s).

检测结果/说明（续页）：  
Results of test and additional explanation (continued page)

### Summary of Test Results

| Test Item             | Test Specification | Results |
|-----------------------|--------------------|---------|
| 1. Conducted emission | EN 55022:2010      | Pass    |

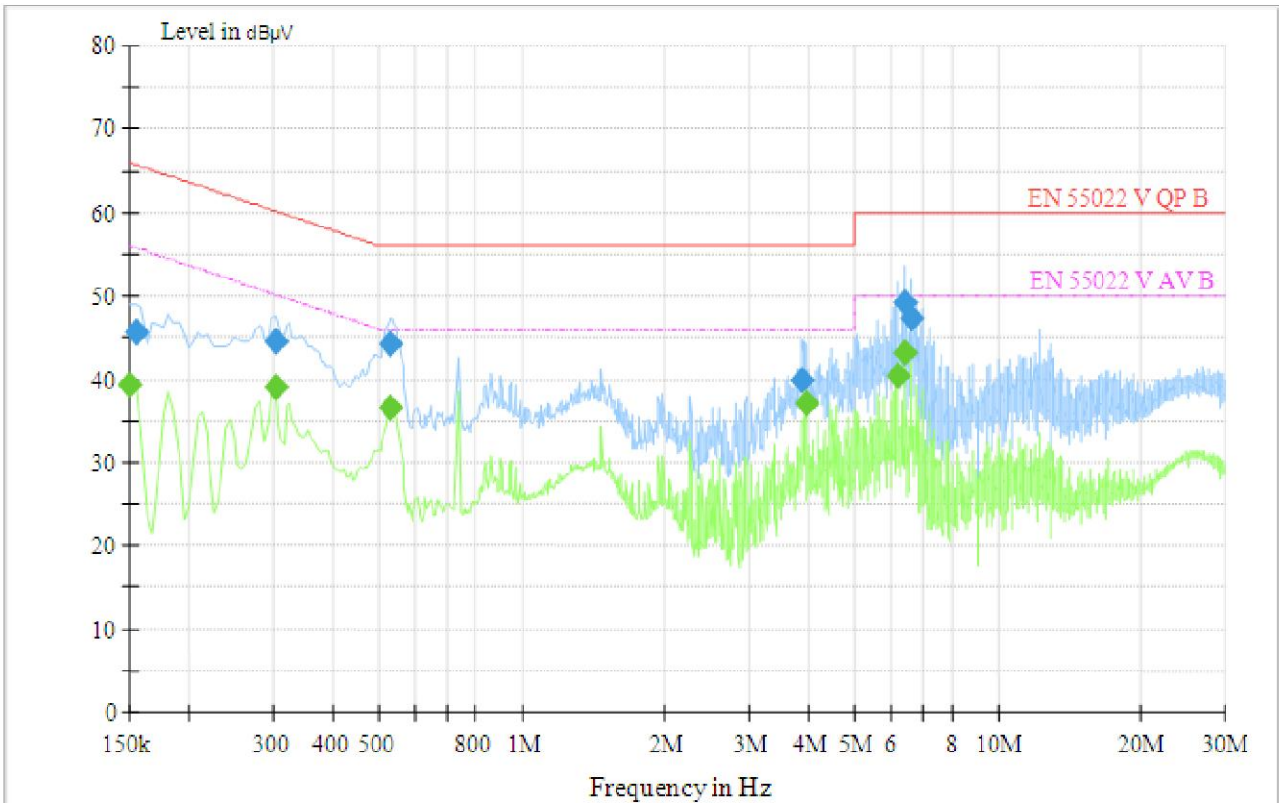
检测结果/说明 (续页):  
Results of test and additional explanation (continued page)

### 1. Conducted emission

Test data

Power source: 220V/50Hz; Type of Limit: Class B; Test mode: Play on, 1W

L



检测结果/说明（续页）：  
Results of test and additional explanation (continued page)

Final Result 1

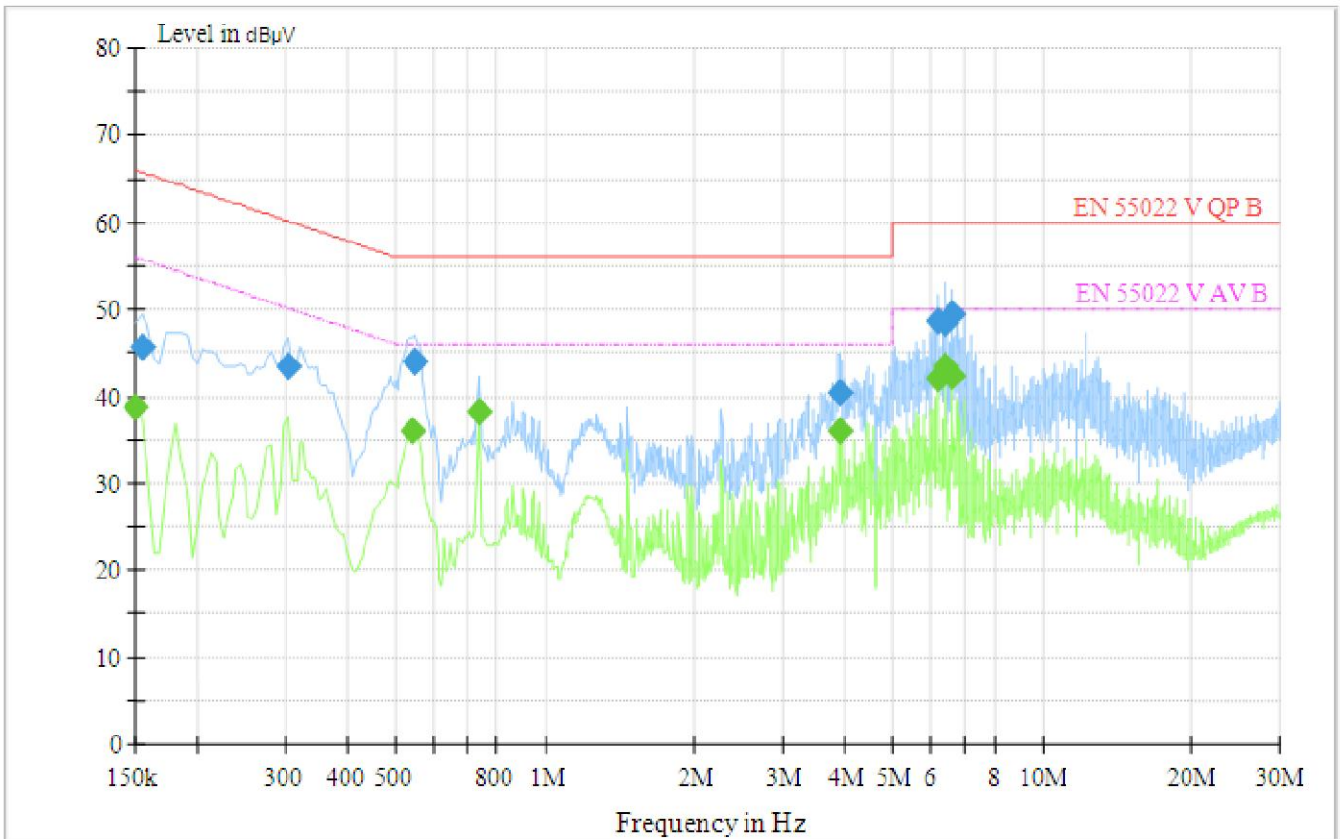
| Frequency (MHz) | QuasiPeak (dB $\mu$ V) | PE  | Line | Margin (dB) | Limit (dB $\mu$ V) |
|-----------------|------------------------|-----|------|-------------|--------------------|
| 0.154500        | 45.7                   | FLO | L1   | 20.1        | 65.8               |
| 0.303000        | 44.7                   | FLO | L1   | 15.5        | 60.2               |
| 0.531500        | 44.3                   | FLO | L1   | 11.7        | 56.0               |
| 3.897500        | 39.8                   | FLO | L1   | 16.2        | 56.0               |
| 6.399500        | 49.1                   | FLO | L1   | 10.9        | 60.0               |
| 6.570500        | 47.4                   | FLO | L1   | 12.6        | 60.0               |

Final Result 2

| Frequency (MHz) | Average (dB $\mu$ V) | PE  | Line | Margin (dB) | Limit (dB $\mu$ V) |
|-----------------|----------------------|-----|------|-------------|--------------------|
| 0.150000        | 39.3                 | FLO | L1   | 16.7        | 56.0               |
| 0.303000        | 39.0                 | FLO | L1   | 11.2        | 50.2               |
| 0.531500        | 36.5                 | FLO | L1   | 9.5         | 46.0               |
| 3.942500        | 37.2                 | FLO | L1   | 8.8         | 46.0               |
| 6.183500        | 40.5                 | FLO | L1   | 9.5         | 50.0               |
| 6.404000        | 43.0                 | FLO | L1   | 7.0         | 50.0               |

检测结果/说明 (续页):  
Results of test and additional explanation (continued page)

N



检测结果/说明（续页）：  
Results of test and additional explanation (continued page)

Final Result 1

| Frequency (MHz) | QuasiPeak (dB $\mu$ V) | PE  | Line | Margin (dB) | Limit (dB $\mu$ V) |
|-----------------|------------------------|-----|------|-------------|--------------------|
| 0.154500        | 45.6                   | FLO | N    | 20.2        | 65.8               |
| 0.303000        | 43.4                   | FLO | N    | 16.8        | 60.2               |
| 0.545000        | 44.0                   | FLO | N    | 12.0        | 56.0               |
| 3.902000        | 40.5                   | FLO | N    | 15.5        | 56.0               |
| 6.188000        | 48.5                   | FLO | N    | 11.5        | 60.0               |
| 6.399500        | 48.3                   | FLO | N    | 11.7        | 60.0               |
| 6.575000        | 49.5                   | FLO | N    | 10.5        | 60.0               |

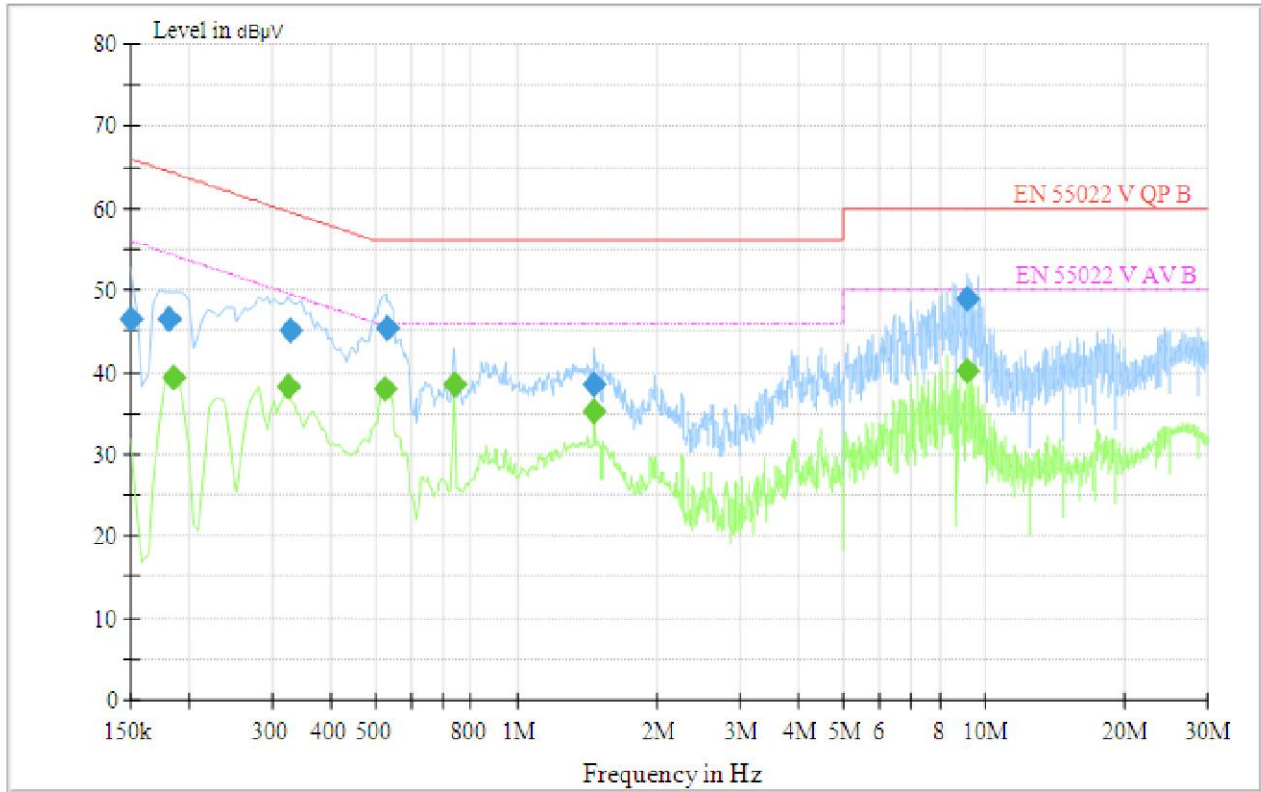
Final Result 2

| Frequency (MHz) | Average (dB $\mu$ V) | PE  | Line | Margin (dB) | Limit (dB $\mu$ V) |
|-----------------|----------------------|-----|------|-------------|--------------------|
| 0.150000        | 38.6                 | FLO | N    | 17.4        | 56.0               |
| 0.540500        | 36.1                 | FLO | N    | 9.9         | 46.0               |
| 0.734000        | 38.3                 | FLO | N    | 7.7         | 46.0               |
| 3.902000        | 36.0                 | FLO | N    | 10.0        | 46.0               |
| 6.188000        | 41.9                 | FLO | N    | 8.1         | 50.0               |
| 6.404000        | 43.4                 | FLO | N    | 6.6         | 50.0               |
| 6.575000        | 42.4                 | FLO | N    | 7.6         | 50.0               |

检测结果/说明 (续页):  
Results of test and additional explanation (continued page)

Power source: 220V/50Hz; Type of Limit: Class B; Test mode: Play on, 2×4W

L





检测结果/说明（续页）：  
Results of test and additional explanation (continued page)

Final Result 1

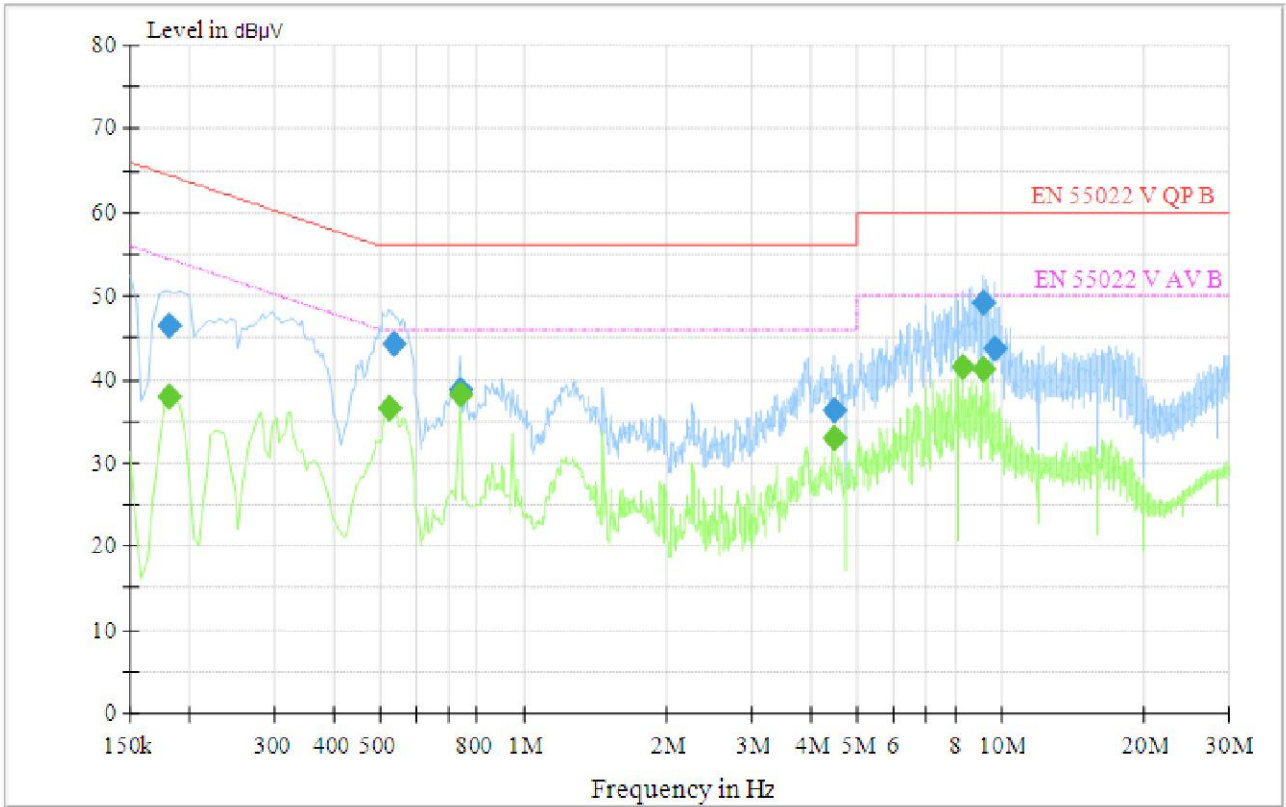
| Frequency (MHz) | QuasiPeak (dB $\mu$ V) | PE  | Line | Margin (dB) | Limit (dB $\mu$ V) |
|-----------------|------------------------|-----|------|-------------|--------------------|
| 0.150000        | 46.4                   | FLO | L1   | 19.6        | 66.0               |
| 0.181500        | 46.4                   | FLO | L1   | 18.0        | 64.4               |
| 0.330000        | 45.1                   | FLO | L1   | 14.4        | 59.5               |
| 0.527000        | 45.4                   | FLO | L1   | 10.6        | 56.0               |
| 1.467500        | 38.5                   | FLO | L1   | 17.5        | 56.0               |
| 9.189500        | 48.8                   | FLO | L1   | 11.2        | 60.0               |

Final Result 2

| Frequency (MHz) | Average (dB $\mu$ V) | PE  | Line | Margin (dB) | Limit (dB $\mu$ V) |
|-----------------|----------------------|-----|------|-------------|--------------------|
| 0.186000        | 39.4                 | FLO | L1   | 14.8        | 54.2               |
| 0.325500        | 38.1                 | FLO | L1   | 11.5        | 49.6               |
| 0.522500        | 38.0                 | FLO | L1   | 8.0         | 46.0               |
| 0.734000        | 38.4                 | FLO | L1   | 7.6         | 46.0               |
| 1.472000        | 35.1                 | FLO | L1   | 10.9        | 46.0               |
| 9.189500        | 40.0                 | FLO | L1   | 10.0        | 50.0               |

检测结果/说明 (续页):  
Results of test and additional explanation (continued page)

N



检测结果/说明（续页）：  
Results of test and additional explanation (continued page)

Final Result 1

| Frequency (MHz) | QuasiPeak (dB $\mu$ V) | PE  | Line | Margin (dB) | Limit (dB $\mu$ V) |
|-----------------|------------------------|-----|------|-------------|--------------------|
| 0.181500        | 46.5                   | FLO | N    | 17.9        | 64.4               |
| 0.536000        | 44.2                   | FLO | N    | 11.8        | 56.0               |
| 0.738500        | 38.7                   | FLO | N    | 17.3        | 56.0               |
| 4.473500        | 36.4                   | FLO | N    | 19.6        | 56.0               |
| 9.189500        | 49.1                   | FLO | N    | 10.9        | 60.0               |
| 9.711500        | 43.8                   | FLO | N    | 16.2        | 60.0               |

Final Result 2

| Frequency (MHz) | Average (dB $\mu$ V) | PE  | Line | Margin (dB) | Limit (dB $\mu$ V) |
|-----------------|----------------------|-----|------|-------------|--------------------|
| 0.181500        | 38.1                 | FLO | N    | 16.4        | 54.4               |
| 0.522500        | 36.4                 | FLO | N    | 9.6         | 46.0               |
| 0.734000        | 38.3                 | FLO | N    | 7.7         | 46.0               |
| 4.487000        | 32.9                 | FLO | N    | 13.1        | 46.0               |
| 8.307500        | 41.5                 | FLO | N    | 8.5         | 50.0               |
| 9.189500        | 41.1                 | FLO | N    | 8.9         | 50.0               |

检测结果/说明（续页）：

Results of test and additional explanation (continued page)

Test instrumentation (Test date: 2016.04.11)

| Name/Model                            | Number   | Due date   |
|---------------------------------------|----------|------------|
| EMI Test Receiver<br>/ ESCS 30        | 容-003-01 | 2016.07.03 |
| Artificial Mains Network<br>/ ESH2-Z5 | 容-003-35 | 2018.03.13 |

Test photographs



检测结果/说明（续页）：  
Results of test and additional explanation (continued page)



检测结果/说明（续页）：

Results of test and additional explanation (continued page)

Attachment 1

本次检测所使用的主要测量仪器：

Main measuring instruments used in this test

| 名称/型号<br>Name/Model                      | 编号<br>Number | 证书编号/有效期限<br>Certificate No./Due date                                       | 测量范围/准确度等级或<br>最大允差或不确定度<br>Measurement range/accuracy class or<br>maximum permissible errors or uncertainty of measurement  |
|--|--------------|---|--|
| EMI Test Receiver<br>/ ESCS 30           | 容-003-01     | 2015F33-10-002059<br>/ 2016.07.03   | Frequency Range:9 kHz ~ 2750<br>MHz , MAX.input level:- 38<br>dB $\mu$ V ~ + 137 dB $\mu$ V<br>/ Frequency resolution: 0.01Hz;<br>Sine- wave voltage accuracy: 0.6dB,<br>k=2; Pulse Repetition Frequency:<br>0.8dB,k=2; Pulse amplitude<br>response: 0.7dB,k=2 |
| Artificial Mains<br>Network<br>/ ESH2-Z5 | 容-003-35     | 2016F31-10-000325<br>2016F31-10-000324<br>2016F31-10-000323<br>/ 2018.03.13 | Frequency Range:9kHz~30 MHz,<br>Continuous<br>current:4*25A,Max.short-time<br>current:4*50A(2 min),Max.AC<br>supply voltage:250 V rms<br>/ Impedance characteristic): 3.6%,<br>k=2; Insertion loss: 0.06dB, k=2;<br>Pphase characteristic): 0.10°, k=2         |

End