

# FCC SDoC REPORT

## Canada ISED ICES-003 TEST REPORT

Test Report No. : T191114L01-A-F  
 Applicant : INVENTEC CORPORATION  
 Address : 66 Hou-Kang st., Shih-Lin District, Taipei, Taiwan, R.O.C.  
 Manufacturer : INVENTEC CORPORATION  
 Address : 66 Hou-Kang st., Shih-Lin District, Taipei, Taiwan, R.O.C.

### Equipment Under Test (EUT) :

Product Name : Notebook Computer  
 Brand Name : HP  
 Model No. : TPN-I137  
 Added Model(s) : N/A  
 Standards : FCC Part 15, Subpart B, Class B  
 Canada ICES-003 Issue 6(June 2016), Class B  
 Date of Sample Receipt : Nov. 19, 2019  
 Date of Test : Nov. 19 ~ 23, 2019  
 Date of Issue : Dec. 17, 2019

|               |      |
|---------------|------|
| Test Result : | PASS |
|---------------|------|

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.

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Tested By:

*Dex Kuo*

Date:

Dec. 17, 2019

**Rex Kuo (Engineer)**

Approved By:

*Hex Chiang*

Date:

Dec. 17, 2019

**Hex Chiang (Supervisor)**



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## Revision History

| Revision | Description                      | Issue Date    | Remark         |
|----------|----------------------------------|---------------|----------------|
| 00       | Original                         | Dec. 9, 2019  | T191114L01-A-F |
| 01       | See the following Note Rev. (01) | Dec. 17, 2019 | T191114L01-A-F |

**Note:**

Rev. (01):

1. Applicant adds Main Board(Model : 6050A3156701) to re-test.

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# 1. General Information

## 1.1 Applicant & Manufacturer Information

Applicant : INVENTEC CORPORATION  
Address : 66 Hou-Kang st., Shih-Lin District, Taipei, Taiwan, R.O.C.  
Manufacturer : INVENTEC CORPORATION  
Address : 66 Hou-Kang st., Shih-Lin District, Taipei, Taiwan, R.O.C.

## 1.2 General Description of EUT

Product Name : Notebook Computer  
Brand Name : HP  
Model No. : TPN-I137  
Added Model(s) : N/A  
Model Difference : See the following note.

**Note:** There are three different Main Board types for EUT. Please refer to the following table:

| Platform type | Main Board              | CPU                                                  | WWAN information  |
|---------------|-------------------------|------------------------------------------------------|-------------------|
| ICL           | Inventec / 6050A3156801 | Intel / i3-1005G1 1.2GHz                             | Fibocom / L850-GL |
|               | Inventec / 6050A3156701 | Intel / i5-1035G1 1.0GHz<br>Intel / i7-1065G7 1.3GHz | N/A               |
| GML           | Inventec / 6050A3156401 | Intel / N5030 1.1GHz                                 | Fibocom / L850-GL |

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## 1.3 Details of EUT

|                             |                                                                                                                                            |                  |
|-----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|------------------|
| Power Supply                | AC 100~240V                                                                                                                                |                  |
| Highest operate description | 1.3GHz                                                                                                                                     |                  |
| Power Adapter               | Chicony(hp)                                                                                                                                | TPN-CA14         |
|                             |                                                                                                                                            | TPN-CA17         |
|                             |                                                                                                                                            | TPN-CA20         |
|                             | Acbel(hp)                                                                                                                                  | TPN-AA05         |
|                             |                                                                                                                                            | TPN-AA07         |
|                             | Delta (hp)                                                                                                                                 | TPN-DA15         |
|                             |                                                                                                                                            | TPN-DA16         |
|                             | Lite-on (hp)                                                                                                                               | TPN-LA15         |
|                             |                                                                                                                                            | TPN-LA17         |
|                             |                                                                                                                                            | TPN-LA19         |
| Adapter Power Rating        | <b>For TPN-AA05 ; TPN-CA14 ; TPN-DA16</b><br>I/P: 100-240Vac, 1.4A, 50-60Hz<br>O/P: 19.5Vdc, 2.31A                                         |                  |
|                             | <b>For TPN-CA17 ; TPN-LA17</b><br>I/P: 100-240Vac, 1.7A, 50-60Hz<br>O/P: 19.5Vdc, 3.33A                                                    |                  |
|                             | <b>For TPN-AA07 ; TPN-CA20 ; TPN-DA15 ; TPN-LA19</b><br>I/P: 100-240Vac, 1.4A, 50-60Hz<br>O/P: 5Vdc, 3A / 9Vdc, 3A / 12Vdc, 3A / 15Vdc, 3A |                  |
|                             | <b>For TPN-LA15</b><br>I/P: 100-240Vac, 1.1A, 50-60Hz<br>O/P: 19.5Vdc, 2.31A                                                               |                  |
| AC Power Cord Type          | Unshielded, 1.8m (Detachable) to Power Adapter                                                                                             |                  |
| DC Power Cable Type         | Shielded, 1.8m (Non-Detachable) at Power Adapter                                                                                           |                  |
| Memory                      | DDR 4 2666MHz (4GB/8GB)                                                                                                                    |                  |
|                             | DDR 4 3200MHz (4GB/8GB/16GB)                                                                                                               |                  |
| Main Board (ICL)            | Inventec                                                                                                                                   | 6050A3156801     |
|                             |                                                                                                                                            | 6050A3156701     |
| Main Board (GML)            | Inventec                                                                                                                                   | 6050A3156401     |
| CPU (ICL)1526PIN            | Intel                                                                                                                                      | i3-1005G1 1.2GHz |
|                             |                                                                                                                                            | i5-1035G1 1.0GHz |
|                             |                                                                                                                                            | i7-1065G7 1.3GHz |
| CPU (GML)1090PIN            | Intel                                                                                                                                      | N5030 1.1GHz     |

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|                     |                 |                                 |
|---------------------|-----------------|---------------------------------|
| 14.0" LCD Panel     | AUO             | B140HAN04.0                     |
|                     |                 | B140HAN05.4                     |
|                     |                 | B140XTN07.2                     |
|                     | BOE             | NV140FHM                        |
|                     |                 | NV140FHM-N4C                    |
|                     |                 | NT140WHM-N44                    |
|                     | INX             | N140HCA-EAC                     |
|                     |                 | N140BGA-EA4                     |
|                     | LGD             | LP140WF8                        |
|                     |                 | LP140WFA                        |
| Touch Screen Module | LAIBAO          | ST140SN084AKM                   |
|                     |                 | ST140SN084BKM                   |
|                     | Henghao         | HD-T140NN07-G8SA                |
|                     | TPK             | T07SN140N004A                   |
| SSD                 | Samsung         | MZNLH128HBHQ-000H1 (128GB)      |
|                     |                 | MZVLQ256HAJD-000H1 (256GB)      |
|                     |                 | MZVLQ512HALU-000H1 (512GB)      |
|                     |                 | MZVLQ1T0HALB-000H1 (1TB)        |
|                     | SanDisk         | SD9SN8W-128G-1006 (128GB)       |
|                     | Toshiba         | KBG30ZMV256G (256GB)            |
|                     |                 | KBG30ZMV512G (512GB)            |
|                     | Intel           | HBRPEKNX0101AH (256GB)          |
|                     |                 | SSDPEKNW512G8H (512GB)          |
|                     |                 | HBRPEKNX0202AH (512GB)          |
|                     |                 | SSDPEKNW010T8H (1TB)            |
|                     | Micron          | MTFDHBA256TCK-1AS1AABHA (256GB) |
|                     | Western Digital | SDAPNUW-256G-1006 (256GB)       |
|                     |                 | SDAPNUW-512G-1006 (512GB)       |
|                     | Hynix           | HFM256GDJTNi-82A0A (256GB)      |
|                     |                 | HFM512GDJTNi-82A0A (512GB)      |
|                     | Lite-On         | CV8-8E128-HP (128GB)            |
|                     | Kingston        | RBU-SNS8350DES3/128GP (128GB)   |

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|                              |             |                   |
|------------------------------|-------------|-------------------|
| Battery Pack                 | LGChem (hp) | HSTNN-LB8S        |
|                              | CosMX (hp)  | HSTNN-OB1P        |
| Wireless LAN+Bluetooth Combo | Intel       | 9461NGW           |
|                              |             | AX201NGW          |
| WWAN                         | Fibocom     | L850-GL           |
| CCD                          | Chicony     | CKFJH4021004330LH |
|                              | Foxlink     | FX10FF-769H       |
|                              | Luxvision   | 9BF111N3          |
|                              | TFC         | YHKL              |
| Pen (Optional)               | Waltop      | TCS-H02           |
|                              |             | TCS-H02B          |
|                              | Sunwoda     | TCS-H02           |
|                              |             | TCS-H02B          |

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## Pre-test Mode

| Mode | CPU                          | Memory                       | Panel               | Touch Screen Module         | SSD                                              | Battery                   | WLAN+BT           | CCD                          | WWAN               | Adapter                  | Main Board               | Pen                 | Type |
|------|------------------------------|------------------------------|---------------------|-----------------------------|--------------------------------------------------|---------------------------|-------------------|------------------------------|--------------------|--------------------------|--------------------------|---------------------|------|
| 1    | Intel<br>i3-1005G1<br>1.2GHz | 4GB + 4GB<br>DDR 4 2666MHz   | AJO<br>B140HAN04.0  | LAIBAO<br>ST140SN084AKM     | Samsung<br>MZNLH128BHQ-000H1<br>(128GB)          | LGChem (hp)<br>HSTNN-LB8S | Intel<br>9461NGW  | Chicony<br>CKFJH4021004330LH | Fibocom<br>L850-GL | Chicony(hp)<br>TPN-CA14  | Inventec<br>6050A3156801 | Waltop<br>TCS-H02   | ICL  |
| 2    | Intel<br>i5-1035G1<br>1.0GHz | 4GB + 8GB<br>DDR 4 2666MHz   | AJO<br>B140HAN05.4  | LAIBAO<br>ST140SN084BKM     | Samsung<br>MZVL0256HAJD-000H1<br>(256GB)         | CosMX (hp)<br>HSTNN-OB1P  | Intel<br>AX201NGW | Foxlink<br>FX10FF-769H       | N/A                | Chicony(hp)<br>TPN-CA17  | Inventec<br>6050A3156701 | Waltop<br>TCS-H02B  | ICL  |
| 3    | Intel<br>i7-1065G7<br>1.3GHz | 8GB + 8GB<br>DDR 4 2666MHz   | AJO<br>B140XTN07.2  | Henghao<br>HD-T140NN07-G8SA | Samsung<br>MZVL0512HALU-000H1<br>(512GB)         | CosMX (hp)<br>HSTNN-OB1P  | Intel<br>AX201NGW | Luxvision<br>9BF111N3        | Fibocom<br>L850-GL | Chicony(hp)<br>TPN-CA20  | Inventec<br>6050A3156801 | Sunwoda<br>TCS-H02  | ICL  |
| 4    | Intel<br>i7-1065G7<br>1.3GHz | 4GB + 4GB<br>DDR 4 3200MHz   | BOE<br>NV140FHM     | TPK<br>T07SN140N004A        | MZVLQ1T0HALB-000H1<br>(1TB)                      | CosMX (hp)<br>HSTNN-OB1P  | Intel<br>AX201NGW | TFC<br>YHKL                  | Fibocom<br>L850-GL | Acbel(hp)<br>TPN-AA05    | Inventec<br>6050A3156801 | Sunwoda<br>TCS-H02B | ICL  |
| 5    | Intel<br>i7-1065G7<br>1.3GHz | 4GB + 8GB<br>DDR 4 3200MHz   | BOE<br>NV140FHM-N4C | LAIBAO<br>ST140SN084AKM     | SanDisk<br>SD9SN8W-128G-1006<br>(128GB)          | CosMX (hp)<br>HSTNN-OB1P  | Intel<br>AX201NGW | Foxlink<br>FX10FF-769H       | Fibocom<br>L850-GL | Acbel(hp)<br>TPN-AA07    | Inventec<br>6050A3156801 | N/A                 | ICL  |
| 6    | Intel<br>i7-1065G7<br>1.3GHz | 4GB + 16GB<br>DDR 4 3200MHz  | BOE<br>NT140WHM-N44 | LAIBAO<br>ST140SN084AKM     | Toshiba<br>KBG30ZMV256G<br>(256GB)               | CosMX (hp)<br>HSTNN-OB1P  | Intel<br>AX201NGW | Foxlink<br>FX10FF-769H       | Fibocom<br>L850-GL | Delta (hp)<br>TPN-DA15   | Inventec<br>6050A3156801 | N/A                 | ICL  |
| 7    | Intel<br>i7-1065G7<br>1.3GHz | 8GB + 8GB<br>DDR 4 3200MHz   | INX<br>N140HCA-EAC  | LAIBAO<br>ST140SN084AKM     | Toshiba<br>KBG30ZMV512G<br>(512GB)               | CosMX (hp)<br>HSTNN-OB1P  | Intel<br>AX201NGW | Foxlink<br>FX10FF-769H       | Fibocom<br>L850-GL | Delta (hp)<br>TPN-DA16   | Inventec<br>6050A3156801 | N/A                 | ICL  |
| 8    | Intel<br>i7-1065G7<br>1.3GHz | 8GB + 16GB<br>DDR 4 3200MHz  | INX<br>N140BGA-EA4  | LAIBAO<br>ST140SN084AKM     | Intel<br>HBRPEKNX0101AH<br>(256GB)               | CosMX (hp)<br>HSTNN-OB1P  | Intel<br>AX201NGW | Foxlink<br>FX10FF-769H       | Fibocom<br>L850-GL | Lite-on (hp)<br>TPN-LA15 | Inventec<br>6050A3156801 | N/A                 | ICL  |
| 9    | Intel<br>i7-1065G7<br>1.3GHz | 16GB + 16GB<br>DDR 4 3200MHz | LGD<br>LP140WF8     | LAIBAO<br>ST140SN084AKM     | Intel<br>SSDPEKNW512G8H<br>(512GB)               | CosMX (hp)<br>HSTNN-OB1P  | Intel<br>AX201NGW | Foxlink<br>FX10FF-769H       | Fibocom<br>L850-GL | Lite-on (hp)<br>TPN-LA17 | Inventec<br>6050A3156801 | N/A                 | ICL  |
| 10   | Intel<br>i7-1065G7<br>1.3GHz | 16GB + 16GB<br>DDR 4 3200MHz | LGD<br>LP140WFA     | LAIBAO<br>ST140SN084AKM     | Intel<br>HBRPEKNX0202AH<br>(512GB)               | CosMX (hp)<br>HSTNN-OB1P  | Intel<br>AX201NGW | Foxlink<br>FX10FF-769H       | Fibocom<br>L850-GL | Lite-on (hp)<br>TPN-LA19 | Inventec<br>6050A3156801 | N/A                 | ICL  |
| 11   | Intel<br>i7-1065G7<br>1.3GHz | 16GB + 16GB<br>DDR 4 3200MHz | INX<br>N140BGA-EA4  | LAIBAO<br>ST140SN084AKM     | Kingston<br>RBU-SNS8350DES3/128GP<br>(128GB)     | CosMX (hp)<br>HSTNN-OB1P  | Intel<br>AX201NGW | Foxlink<br>FX10FF-769H       | Fibocom<br>L850-GL | Chicony(hp)<br>TPN-CA14  | Inventec<br>6050A3156801 | N/A                 | ICL  |
| 12   | Intel<br>i7-1065G7<br>1.3GHz | 16GB + 16GB<br>DDR 4 3200MHz | INX<br>N140BGA-EA4  | LAIBAO<br>ST140SN084AKM     | Micron<br>MTFDHBA256TCK-<br>1AS1ABH4A<br>(256GB) | CosMX (hp)<br>HSTNN-OB1P  | Intel<br>AX201NGW | Foxlink<br>FX10FF-769H       | Fibocom<br>L850-GL | Chicony(hp)<br>TPN-CA14  | Inventec<br>6050A3156801 | N/A                 | ICL  |
| 13   | Intel<br>i7-1065G7<br>1.3GHz | 16GB + 16GB<br>DDR 4 3200MHz | INX<br>N140BGA-EA4  | LAIBAO<br>ST140SN084AKM     | Western Digital<br>SDAPNUW-256G-1006<br>(256GB)  | CosMX (hp)<br>HSTNN-OB1P  | Intel<br>AX201NGW | Foxlink<br>FX10FF-769H       | Fibocom<br>L850-GL | Chicony(hp)<br>TPN-CA14  | Inventec<br>6050A3156801 | N/A                 | ICL  |
| 14   | Intel<br>i7-1065G7<br>1.3GHz | 16GB + 16GB<br>DDR 4 3200MHz | INX<br>N140BGA-EA4  | LAIBAO<br>ST140SN084AKM     | Western Digital<br>SDAPNUW-512G-1006<br>(512GB)  | CosMX (hp)<br>HSTNN-OB1P  | Intel<br>AX201NGW | Foxlink<br>FX10FF-769H       | Fibocom<br>L850-GL | Chicony(hp)<br>TPN-CA14  | Inventec<br>6050A3156801 | N/A                 | ICL  |
| 15   | Intel<br>i7-1065G7<br>1.3GHz | 16GB + 16GB<br>DDR 4 3200MHz | INX<br>N140BGA-EA4  | LAIBAO<br>ST140SN084AKM     | Hyinx<br>HFM256GJTN1-82A0A<br>(256GB)            | CosMX (hp)<br>HSTNN-OB1P  | Intel<br>AX201NGW | Foxlink<br>FX10FF-769H       | Fibocom<br>L850-GL | Chicony(hp)<br>TPN-CA14  | Inventec<br>6050A3156801 | N/A                 | ICL  |
| 16   | Intel<br>i7-1065G7<br>1.3GHz | 16GB + 16GB<br>DDR 4 3200MHz | INX<br>N140BGA-EA4  | LAIBAO<br>ST140SN084AKM     | Hyinx<br>HFM512GJTN1-82A0A<br>(512GB)            | CosMX (hp)<br>HSTNN-OB1P  | Intel<br>AX201NGW | Foxlink<br>FX10FF-769H       | Fibocom<br>L850-GL | Chicony(hp)<br>TPN-CA14  | Inventec<br>6050A3156801 | N/A                 | ICL  |
| 17   | Intel<br>i7-1065G7<br>1.3GHz | 16GB + 16GB<br>DDR 4 3200MHz | INX<br>N140BGA-EA4  | LAIBAO<br>ST140SN084AKM     | Lite-On<br>CV8-BE128-HP<br>(128GB)               | CosMX (hp)<br>HSTNN-OB1P  | Intel<br>AX201NGW | Foxlink<br>FX10FF-769H       | Fibocom<br>L850-GL | Chicony(hp)<br>TPN-CA14  | Inventec<br>6050A3156801 | N/A                 | ICL  |
| 18   | Intel<br>i7-1065G7<br>1.3GHz | 16GB + 16GB<br>DDR 4 3200MHz | INX<br>N140BGA-EA4  | LAIBAO<br>ST140SN084AKM     | SanDisk<br>SSDPEKNW1010TH<br>(1TB)               | CosMX (hp)<br>HSTNN-OB1P  | Intel<br>AX201NGW | Foxlink<br>FX10FF-769H       | Fibocom<br>L850-GL | Chicony(hp)<br>TPN-CA14  | Inventec<br>6050A3156801 | N/A                 | ICL  |
| 19   | Intel<br>N5030<br>1.1GHz     | 4GB + 4GB<br>DDR 4 2666MHz   | AJO<br>B140HAN04.0  | LAIBAO<br>ST140SN084AKM     | SanDisk<br>SD9SN8W-128G-1006<br>(128GB)          | LGChem (hp)<br>HSTNN-LB8S | Intel<br>9461NGW  | Chicony<br>CKFJH4021004330LH | Fibocom<br>L850-GL | Chicony(hp)<br>TPN-CA14  | Inventec<br>6050A3156401 | Waltop<br>TCS-H02   | GML  |
| 20   | Intel<br>N5030<br>1.1GHz     | 4GB + 8GB<br>DDR 4 2666MHz   | AJO<br>B140HAN05.4  | LAIBAO<br>ST140SN084BKM     | Toshiba<br>KBG30ZMV256G<br>(256GB)               | CosMX (hp)<br>HSTNN-OB1P  | Intel<br>AX201NGW | Foxlink<br>FX10FF-769H       | Fibocom<br>L850-GL | Chicony(hp)<br>TPN-CA17  | Inventec<br>6050A3156401 | Waltop<br>TCS-H02B  | GML  |
| 21   | Intel<br>N5030<br>1.1GHz     | 8GB + 8GB<br>DDR 4 2666MHz   | AJO<br>B140XTN07.2  | Henghao<br>HD-T140NN07-G8SA | Toshiba<br>KBG30ZMV512G<br>(512GB)               | CosMX (hp)<br>HSTNN-OB1P  | Intel<br>AX201NGW | Luxvision<br>9BF111N3        | Fibocom<br>L850-GL | Chicony(hp)<br>TPN-CA20  | Inventec<br>6050A3156401 | Sunwoda<br>TCS-H02  | GML  |
| 22   | Intel<br>N5030<br>1.1GHz     | 4GB + 4GB<br>DDR 4 3200MHz   | BOE<br>NV140FHM     | TPK<br>T07SN140N004A        | Intel<br>HBRPEKNX0101AH<br>(256GB)               | CosMX (hp)<br>HSTNN-OB1P  | Intel<br>AX201NGW | TFC<br>YHKL                  | Fibocom<br>L850-GL | Acbel(hp)<br>TPN-AA05    | Inventec<br>6050A3156401 | Sunwoda<br>TCS-H02B | GML  |
| 23   | Intel<br>N5030<br>1.1GHz     | 4GB + 8GB<br>DDR 4 3200MHz   | BOE<br>NV140FHM-N4C | Henghao<br>HD-T140NN07-G8SA | Intel<br>SSDPEKNW512G8H<br>(512GB)               | CosMX (hp)<br>HSTNN-OB1P  | Intel<br>AX201NGW | Chicony<br>CKFJH4021004330LH | Fibocom<br>L850-GL | Acbel(hp)<br>TPN-AA07    | Inventec<br>6050A3156401 | N/A                 | GML  |
| 24   | Intel<br>N5030<br>1.1GHz     | 4GB + 16GB<br>DDR 4 3200MHz  | BOE<br>NT140WHM-N44 | Henghao<br>HD-T140NN07-G8SA | Intel<br>HBRPEKNX0202AH<br>(512GB)               | CosMX (hp)<br>HSTNN-OB1P  | Intel<br>AX201NGW | Chicony<br>CKFJH4021004330LH | Fibocom<br>L850-GL | Delta (hp)<br>TPN-DA15   | Inventec<br>6050A3156401 | N/A                 | GML  |
| 25   | Intel<br>N5030<br>1.1GHz     | 8GB + 8GB<br>DDR 4 3200MHz   | INX<br>N140HCA-EAC  | Henghao<br>HD-T140NN07-G8SA | Intel<br>SSDPEKNW1010TH<br>(1TB)                 | CosMX (hp)<br>HSTNN-OB1P  | Intel<br>AX201NGW | Chicony<br>CKFJH4021004330LH | Fibocom<br>L850-GL | Delta (hp)<br>TPN-DA16   | Inventec<br>6050A3156401 | N/A                 | GML  |
| 26   | Intel<br>N5030<br>1.1GHz     | 8GB + 16GB<br>DDR 4 3200MHz  | INX<br>N140BGA-EA4  | Henghao<br>HD-T140NN07-G8SA | Kingston<br>RBU-SNS8350DES3/128GP<br>(128GB)     | CosMX (hp)<br>HSTNN-OB1P  | Intel<br>AX201NGW | Chicony<br>CKFJH4021004330LH | Fibocom<br>L850-GL | Lite-on (hp)<br>TPN-LA15 | Inventec<br>6050A3156401 | N/A                 | GML  |
| 27   | Intel<br>N5030<br>1.1GHz     | 16GB + 16GB<br>DDR 4 3200MHz | LGD<br>LP140WF8     | Henghao<br>HD-T140NN07-G8SA | Micron<br>MTFDHBA256TCK-<br>1AS1ABH4A<br>(256GB) | CosMX (hp)<br>HSTNN-OB1P  | Intel<br>AX201NGW | Chicony<br>CKFJH4021004330LH | Fibocom<br>L850-GL | Lite-on (hp)<br>TPN-LA17 | Inventec<br>6050A3156401 | N/A                 | GML  |
| 28   | Intel<br>N5030<br>1.1GHz     | 16GB + 16GB<br>DDR 4 3200MHz | LGD<br>LP140WFA     | Henghao<br>HD-T140NN07-G8SA | Western Digital<br>SDAPNUW-256G-1006<br>(256GB)  | CosMX (hp)<br>HSTNN-OB1P  | Intel<br>AX201NGW | Chicony<br>CKFJH4021004330LH | Fibocom<br>L850-GL | Lite-on (hp)<br>TPN-LA19 | Inventec<br>6050A3156401 | N/A                 | GML  |
| 29   | Intel<br>N5030<br>1.1GHz     | 16GB + 16GB<br>DDR 4 3200MHz | LGD<br>LP140WF8     | Henghao<br>HD-T140NN07-G8SA | Western Digital<br>SDAPNUW-512G-1006<br>(512GB)  | CosMX (hp)<br>HSTNN-OB1P  | Intel<br>AX201NGW | Chicony<br>CKFJH4021004330LH | Fibocom<br>L850-GL | Delta (hp)<br>TPN-DA16   | Inventec<br>6050A3156401 | N/A                 | GML  |
| 30   | Intel<br>N5030<br>1.1GHz     | 16GB + 16GB<br>DDR 4 3200MHz | LGD<br>LP140WF8     | Henghao<br>HD-T140NN07-G8SA | Hyinx<br>HFM256GJTN1-82A0A<br>(256GB)            | CosMX (hp)<br>HSTNN-OB1P  | Intel<br>AX201NGW | Chicony<br>CKFJH4021004330LH | Fibocom<br>L850-GL | Delta (hp)<br>TPN-DA16   | Inventec<br>6050A3156401 | N/A                 | GML  |
| 31   | Intel<br>N5030<br>1.1GHz     | 16GB + 16GB<br>DDR 4 3200MHz | LGD<br>LP140WF8     | Henghao<br>HD-T140NN07-G8SA | Hyinx<br>HFM512GJTN1-82A0A<br>(512GB)            | CosMX (hp)<br>HSTNN-OB1P  | Intel<br>AX201NGW | Chicony<br>CKFJH4021004330LH | Fibocom<br>L850-GL | Delta (hp)<br>TPN-DA16   | Inventec<br>6050A3156401 | N/A                 | GML  |
| 32   | Intel<br>N5030<br>1.1GHz     | 16GB + 16GB<br>DDR 4 3200MHz | LGD<br>LP140WF8     | Henghao<br>HD-T140NN07-G8SA | Lite-On<br>CV8-BE128-HP<br>(128GB)               | CosMX (hp)<br>HSTNN-OB1P  | Intel<br>AX201NGW | Chicony<br>CKFJH4021004330LH | Fibocom<br>L850-GL | Delta (hp)<br>TPN-DA16   | Inventec<br>6050A3156401 | N/A                 | GML  |
| 33   | Intel<br>N5030<br>1.1GHz     | 16GB + 16GB<br>DDR 4 3200MHz | LGD<br>LP140WF8     | Henghao<br>HD-T140NN07-G8SA | Samsung<br>MZNLH128BHQ-000H1<br>(128GB)          | CosMX (hp)<br>HSTNN-OB1P  | Intel<br>AX201NGW | Chicony<br>CKFJH4021004330LH | Fibocom<br>L850-GL | Delta (hp)<br>TPN-DA16   | Inventec<br>6050A3156401 | N/A                 | GML  |
| 34   | Intel<br>N5030<br>1.1GHz     | 16GB + 16GB<br>DDR 4 3200MHz | LGD<br>LP140WF8     | Henghao<br>HD-T140NN07-G8SA | Samsung<br>MZVLQ256HAJD-000H1<br>(256GB)         | CosMX (hp)<br>HSTNN-OB1P  | Intel<br>AX201NGW | Chicony<br>CKFJH4021004330LH | Fibocom<br>L850-GL | Delta (hp)<br>TPN-DA16   | Inventec<br>6050A3156401 | N/A                 | GML  |
| 35   | Intel<br>N5030<br>1.1GHz     | 16GB + 16GB<br>DDR 4 3200MHz | LGD<br>LP140WF8     | Henghao<br>HD-T140NN07-G8SA | Samsung<br>MZVLQ512HALU-000H1<br>(512GB)         | CosMX (hp)<br>HSTNN-OB1P  | Intel<br>AX201NGW | Chicony<br>CKFJH4021004330LH | Fibocom<br>L850-GL | Delta (hp)<br>TPN-DA16   | Inventec<br>6050A3156401 | N/A                 | GML  |
| 36   | Intel<br>N5030<br>1.1GHz     | 16GB + 16GB<br>DDR 4 3200MHz | LGD<br>LP140WF8     | Henghao<br>HD-T140NN07-G8SA | Samsung<br>MZVLQ1T0HALB-000H1<br>(1TB)           | CosMX (hp)<br>HSTNN-OB1P  | Intel<br>AX201NGW | Chicony<br>CKFJH4021004330LH | Fibocom<br>L850-GL | Delta (hp)<br>TPN-DA16   | Inventec<br>6050A3156401 | N/A                 | GML  |

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#### 1.4 The worst case of the EUT

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

| Worst Case |                                      |
|------------|--------------------------------------|
| CE         | Mode 18, 36 (1920 X 1080 Resolution) |
| RE         | Mode 18, 36 (1920 X 1080 Resolution) |

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**1.5 Description of Support Units**

Mode 18, 36:

| PRODUCT                                       | MANUFACTURER | MODEL NO.          | SERIAL NO.               |
|-----------------------------------------------|--------------|--------------------|--------------------------|
| LCD Monitor                                   | AUSU         | MX27U              | N/A                      |
| Mouse                                         | Lenovo       | MOAFUO             | LZ151A63RH7              |
| SD Card                                       | N/A          | N/A                | N/A                      |
| SIM Card                                      | N/A          | N/A                | N/A                      |
| HDD                                           | WD           | WDBPGC5003ABK-PESN | WXA1AA4DRYDJ             |
| HDD                                           | WD           | WDBPGC5004ABK-PESN | WXB1AA4EEJ9P             |
| Earphone                                      | Lenovo       | GS-4021M           | 57Y4488                  |
| GPS simulator (Remote)                        | IFR          | GPS-101            | N/A                      |
| Notebook PC (Remote)                          | DELL         | INSPIRON 640m      | CN-0MG532-70166-75G-03AP |
| Wireless AP (Remote)                          | D-Link       | DIR-868L           | R3X81D7000137            |
| Universal Radio Communication Tester (Remote) | R & S        | CMW 500            | NA                       |

**Support Equipment Used in Tested Cable**

Mode 18, 36:

| Cable Type         | Core | Length | Shielding/Non-shielding |
|--------------------|------|--------|-------------------------|
| HDMI Cable(1)      | N/A  | 1.8m   | Shielding               |
| USB Mouse Cable(2) | N/A  | 1.8m   | Shielding               |
| USB HDD Cable(3)   | N/A  | 0.6m   | Shielding               |
| Type C Cable(4)    | N/A  | 0.6m   | Shielding               |
| Earphone Cable(5)  | N/A  | 1.8m   | Non-Shielding           |
| DC Cable(6)        | N/A  | 1.8m   | Shielding               |

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## 1.6 Operation Procedure

Mode 18, 36:

1. Turn on the power of all equipment.
2. The EUT communicates with Notebook PC by Bluetooth radio.
3. The EUT communicates with Wireless AP by WIFI radio.
4. The EUT will reads/writes disk through "WinEMC" test software.
5. EUT execute the WinEMC software to send "H" Pattern to display on the screen.
6. Executed AMCAP2 software to turn-on the Camera.
7. The EUT transfers data to another Notebook PC via LAN Port.
8. The EUT will receive the GPS signal source and sustained action.
9. The EUT communicates with the wireless CMW 500 via a SIM radio.
10. Setup the condition for test mode, and begin the test.

## 1.7 Modification List

No modification was made by Compliance Certification Services Inc..

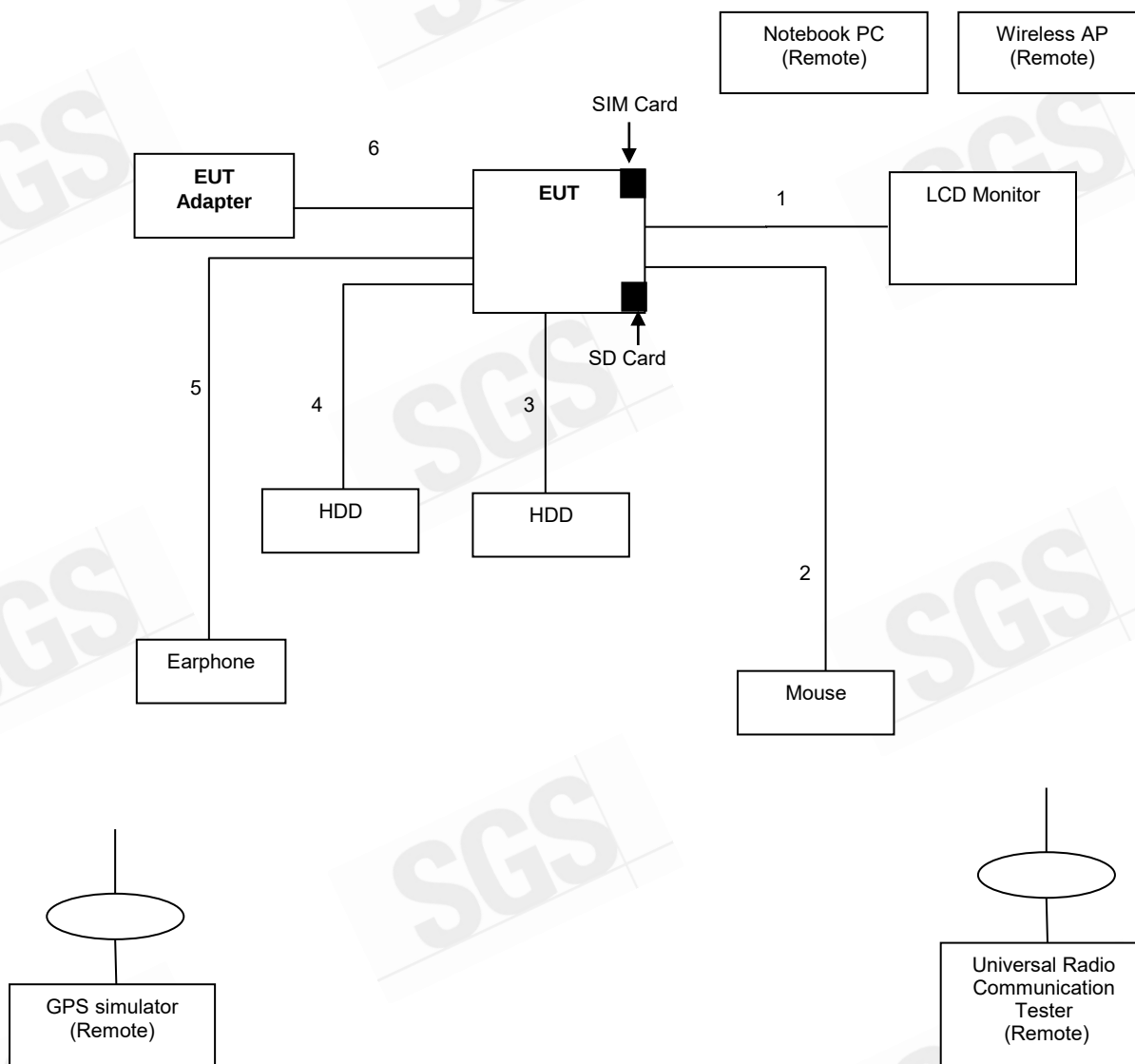
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## 1.8 Test Set-Up Configuration

Mode 18, 36:



## 1.9 Accessories Cable List

See clause 1.3 of this report

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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/CISPR 22 | Applicable   |
| Deviation from Standard         | No deviation |

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### 1.12 Decision Rules of Results

Reported measurement data comply with ANSI C63.4:2014.

Determining compliance shall be based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

### 1.13 Summary of Results

| Standard                                     | Test Type          | Result |
|----------------------------------------------|--------------------|--------|
| FCC Part 15 Subpart B, Class B               | Conducted Emission | PASS   |
| Canada ICES-003 Issue 6 (June 2016), Class B | Radiated Emission  | PASS   |

### 1.14 Reporting Statements of Conformity

The conformity statement in this report is based solely on the test results, measurement uncertainty is excluded.

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

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**CISPR 22 Limit:**

- Detector Function : Quasi – Peak

| FREQUENCY<br>(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<br>(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

| Conducted_Emission Conducted Room No.B_EMC                                                                                                                                                                                                                                                                                                                     |              |              |               |                  |                 |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|--------------|---------------|------------------|-----------------|
| EQUIPMENT TYPE                                                                                                                                                                                                                                                                                                                                                 | Manufacturer | Model Number | Serial Number | Calibration Date | Calibration Due |
| Coaxial Cable                                                                                                                                                                                                                                                                                                                                                  | EMCI         | EMCRG142     | 190809        | 09/20/2019       | 09/19/2020      |
| EMI Test Receiver                                                                                                                                                                                                                                                                                                                                              | R&S          | ESCI         | 101073        | 07/18/2019       | 07/17/2020      |
| LISN                                                                                                                                                                                                                                                                                                                                                           | R&S          | ENV216       | 101054        | 05/02/2019       | 05/01/2020      |
| LISN                                                                                                                                                                                                                                                                                                                                                           | Schwarzbeck  | NSLK8128     | 5012          | 04/18/2019       | 04/17/2020      |
| Software                                                                                                                                                                                                                                                                                                                                                       | CCS-3A1-CE   |              |               |                  |                 |
| Compliance Certification Services Inc. (Wugu Laboratory)<br>No.139, Wugong Rd., Wugu Dist., New Taipei City 24886, Taiwan (R.O.C.)<br>Measurement Uncertainty of Conducted Emission<br>Expanded uncertainty Ulab (K=2) of conducted emission is 3.14 dB<br>Theory values uncertainty Ucispr 16-4-2:2011+A1:2014 (K=2) of AC mains Conducted Emission is 3.44dB |              |              |               |                  |                 |

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## 2.4.2 Operating Environment

Temperature : 20 degree C      Humidity : 45%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

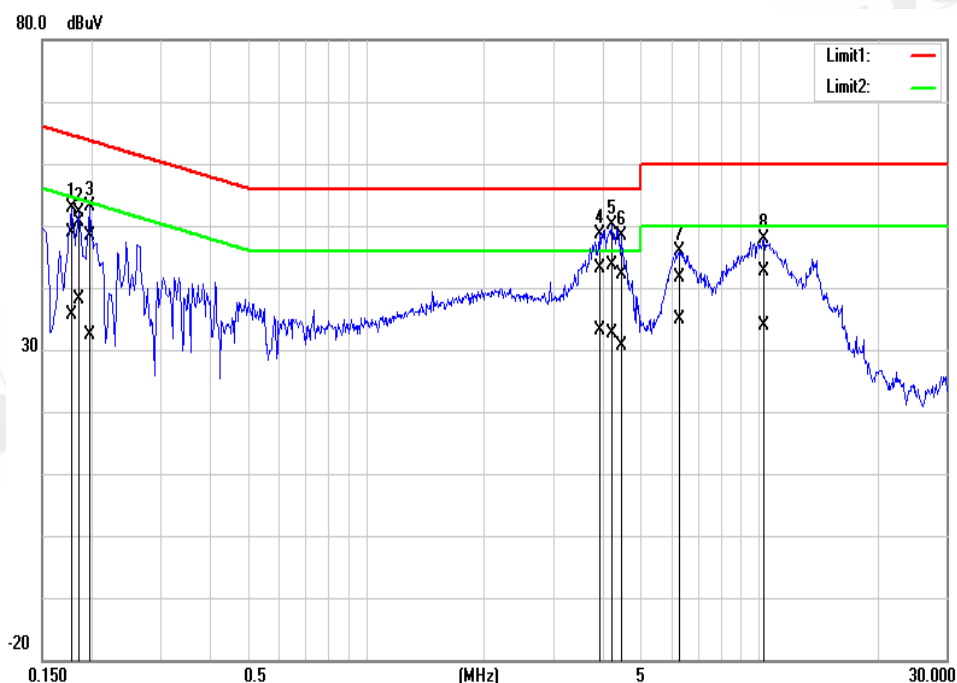
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#### 2.4.4 Measurement Data:

|                          |              |                   |                 |
|--------------------------|--------------|-------------------|-----------------|
| Model no.                | TPN-I137     | Line:             | L1              |
| Environmental Conditions | 20°C, 45% RH | Test Date         | 2019/11/19      |
| Test Mode                | Mode 18      | Tested by         | Jemmy Wang      |
| 6dB Bandwidth            | 9 kHz        | Identifier number | TCOP CE site 17 |



| NO. | Frequency<br>(MHz) | Quasi<br>Peak<br>reading<br>(dBuV) | Average<br>reading<br>(dBuV) | Correction<br>factor<br>(dB) | Quasi<br>Peak<br>result<br>(dBuV) | Average<br>result<br>(dBuV) | Quasi<br>Peak<br>limit<br>(dBuV) | Average<br>limit<br>(dBuV) | Quasi<br>Peak<br>margin<br>(dB) | Average<br>margin<br>(dB) | Remark<br>(Pass/Fail) |
|-----|--------------------|------------------------------------|------------------------------|------------------------------|-----------------------------------|-----------------------------|----------------------------------|----------------------------|---------------------------------|---------------------------|-----------------------|
| 1   | 0.1780             | 39.04                              | 25.83                        | 9.76                         | 48.80                             | 35.59                       | 64.57                            | 54.58                      | -15.77                          | -18.99                    | Pass                  |
| 2   | 0.1860             | 40.84                              | 28.37                        | 9.76                         | 50.60                             | 38.13                       | 64.21                            | 54.21                      | -13.61                          | -16.08                    | Pass                  |
| 3   | 0.1980             | 38.71                              | 22.69                        | 9.76                         | 48.47                             | 32.45                       | 63.69                            | 53.69                      | -15.22                          | -21.24                    | Pass                  |
| 4   | 3.9420             | 33.18                              | 23.40                        | 9.84                         | 43.02                             | 33.24                       | 56.00                            | 46.00                      | -12.98                          | -12.76                    | Pass                  |
| 5*  | 4.2420             | 33.68                              | 22.71                        | 9.84                         | 43.52                             | 32.55                       | 56.00                            | 46.00                      | -12.48                          | -13.45                    | Pass                  |
| 6   | 4.4660             | 32.21                              | 20.68                        | 9.84                         | 42.05                             | 30.52                       | 56.00                            | 46.00                      | -13.95                          | -15.48                    | Pass                  |
| 7   | 6.2660             | 31.85                              | 25.05                        | 9.88                         | 41.73                             | 34.93                       | 60.00                            | 50.00                      | -18.27                          | -15.07                    | Pass                  |
| 8   | 10.3300            | 32.67                              | 23.86                        | 9.94                         | 42.61                             | 33.80                       | 60.00                            | 50.00                      | -17.39                          | -16.20                    | Pass                  |

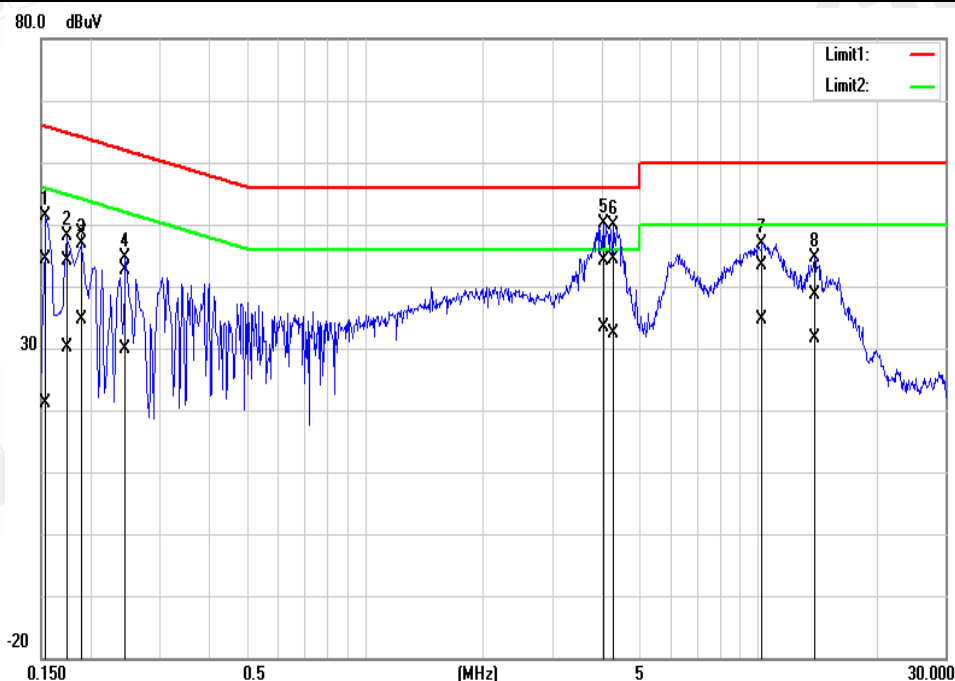
Note: L1 = Line One (Live Line)

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|                          |              |                   |                 |
|--------------------------|--------------|-------------------|-----------------|
| Model no.                | TPN-I137     | Line:             | L2              |
| Environmental Conditions | 20°C, 45% RH | Test Date         | 2019/11/19      |
| Test Mode                | Mode 18      | Tested by         | Jemmy Wang      |
| 6dB Bandwidth            | 9 kHz        | Identifier number | TCOP CE site 17 |



| NO. | Frequency<br>(MHz) | Quasi<br>Peak<br>reading<br>(dBuV) | Average<br>reading<br>(dBuV) | Correction<br>factor<br>(dB) | Quasi<br>Peak<br>result<br>(dBuV) | Average<br>result<br>(dBuV) | Quasi<br>Peak<br>limit<br>(dBuV) | Average<br>limit<br>(dBuV) | Quasi<br>Peak<br>margin<br>(dB) | Average<br>margin<br>(dB) | Remark |
|-----|--------------------|------------------------------------|------------------------------|------------------------------|-----------------------------------|-----------------------------|----------------------------------|----------------------------|---------------------------------|---------------------------|--------|
| 1   | 0.1539             | 34.47                              | 11.27                        | 9.80                         | 44.27                             | 21.07                       | 65.78                            | 55.79                      | -21.51                          | -34.72                    | Pass   |
| 2   | 0.1740             | 34.32                              | 20.41                        | 9.79                         | 44.11                             | 30.20                       | 64.76                            | 54.77                      | -20.65                          | -24.57                    | Pass   |
| 3   | 0.1900             | 38.94                              | 24.89                        | 9.79                         | 48.73                             | 34.68                       | 64.03                            | 54.04                      | -15.30                          | -19.36                    | Pass   |
| 4   | 0.2460             | 32.91                              | 20.00                        | 9.79                         | 42.70                             | 29.79                       | 61.89                            | 51.89                      | -19.19                          | -22.10                    | Pass   |
| 5   | 4.0580             | 34.14                              | 23.49                        | 9.88                         | 44.02                             | 33.37                       | 56.00                            | 46.00                      | -11.98                          | -12.63                    | Pass   |
| 6*  | 4.3140             | 34.45                              | 22.38                        | 9.88                         | 44.33                             | 32.26                       | 56.00                            | 46.00                      | -11.67                          | -13.74                    | Pass   |
| 7   | 10.2460            | 33.26                              | 24.71                        | 10.00                        | 43.26                             | 34.71                       | 60.00                            | 50.00                      | -16.74                          | -15.29                    | Pass   |
| 8   | 13.9180            | 28.57                              | 21.59                        | 10.05                        | 38.62                             | 31.64                       | 60.00                            | 50.00                      | -21.38                          | -18.36                    | Pass   |

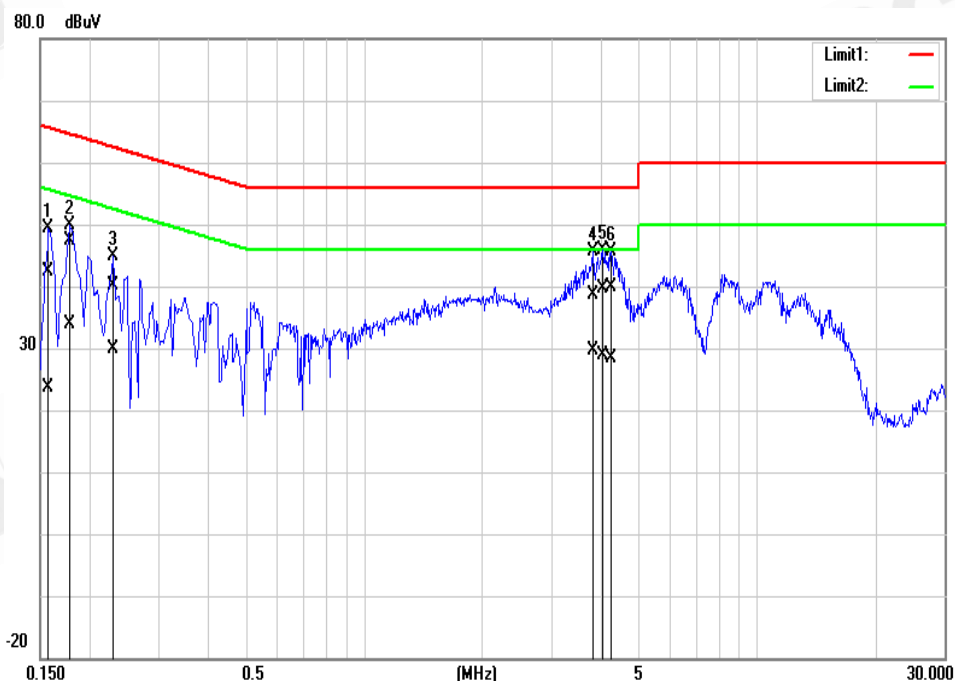
Note: L2 = Line Two (Neutral Line).

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|                          |              |                   |                 |
|--------------------------|--------------|-------------------|-----------------|
| Model no.                | TPN-I137     | Line:             | L1              |
| Environmental Conditions | 20°C, 45% RH | Test Date         | 2019/11/19      |
| Test Mode                | Mode 36      | Tested by         | Jemmy Wang      |
| 6dB Bandwidth            | 9 kHz        | Identifier number | TCOP CE site 17 |



| NO. | Frequency<br>(MHz) | Quasi<br>Peak<br>reading<br>(dBuV) | Average<br>reading<br>(dBuV) | Correction<br>factor<br>(dB) | Quasi<br>Peak<br>result<br>(dBuV) | Average<br>result<br>(dBuV) | Quasi<br>Peak<br>limit<br>(dBuV) | Average<br>limit<br>(dBuV) | Quasi<br>Peak<br>margin<br>(dB) | Average<br>margin<br>(dB) | Remark |
|-----|--------------------|------------------------------------|------------------------------|------------------------------|-----------------------------------|-----------------------------|----------------------------------|----------------------------|---------------------------------|---------------------------|--------|
| 1   | 0.1580             | 32.52                              | 13.82                        | 9.76                         | 42.28                             | 23.58                       | 65.56                            | 55.57                      | -23.28                          | -31.99                    | Pass   |
| 2   | 0.1780             | 37.70                              | 24.02                        | 9.76                         | 47.46                             | 33.78                       | 64.57                            | 54.58                      | -17.11                          | -20.80                    | Pass   |
| 3   | 0.2300             | 30.33                              | 20.21                        | 9.76                         | 40.09                             | 29.97                       | 62.45                            | 52.45                      | -22.36                          | -22.48                    | Pass   |
| 4   | 3.8380             | 28.85                              | 19.79                        | 9.84                         | 38.69                             | 29.63                       | 56.00                            | 46.00                      | -17.31                          | -16.37                    | Pass   |
| 5   | 4.0660             | 29.91                              | 19.13                        | 9.84                         | 39.75                             | 28.97                       | 56.00                            | 46.00                      | -16.25                          | -17.03                    | Pass   |
| 6*  | 4.2500             | 30.09                              | 18.48                        | 9.84                         | 39.93                             | 28.32                       | 56.00                            | 46.00                      | -16.07                          | -17.68                    | Pass   |

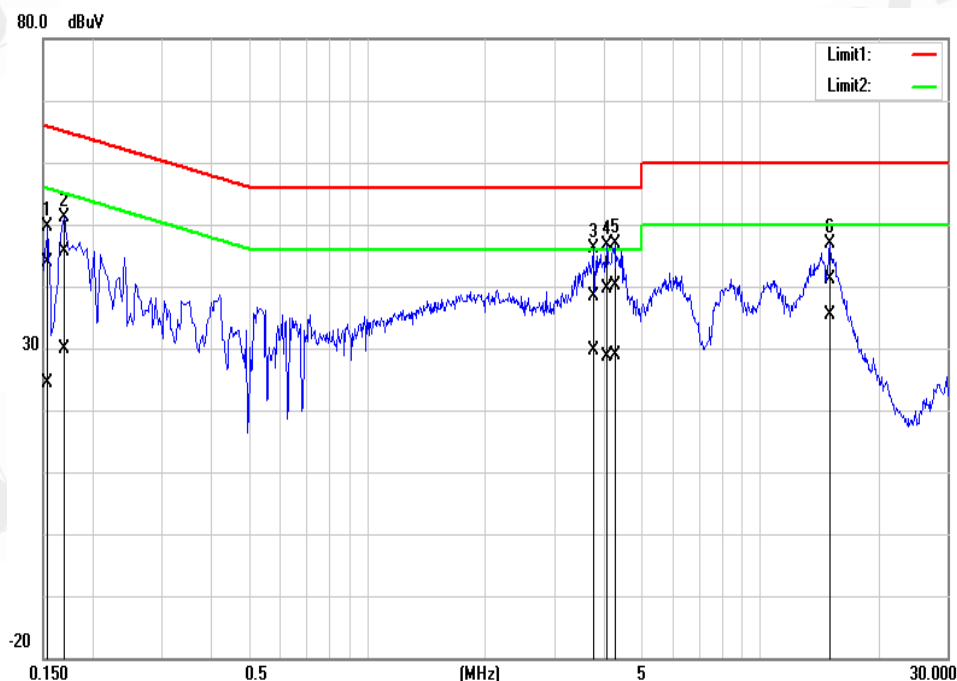
**Note:** L1 = Line One (Live Line)

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|                          |              |                   |                 |
|--------------------------|--------------|-------------------|-----------------|
| Model no.                | TPN-I137     | Line:             | L2              |
| Environmental Conditions | 20°C, 45% RH | Test Date         | 2019/11/19      |
| Test Mode                | Mode 36      | Tested by         | Jemmy Wang      |
| 6dB Bandwidth            | 9 kHz        | Identifier number | TCOP CE site 17 |



| NO. | Frequency<br>(MHz) | Quasi<br>Peak<br>reading<br>(dBuV) | Average<br>reading<br>(dBuV) | Correction<br>factor<br>(dB) | Quasi<br>Peak<br>result<br>(dBuV) | Average<br>result<br>(dBuV) | Quasi<br>Peak<br>limit<br>(dBuV) | Average<br>limit<br>(dBuV) | Quasi<br>Peak<br>margin<br>(dB) | Average<br>margin<br>(dB) | Remark<br>(Pass/Fail) |
|-----|--------------------|------------------------------------|------------------------------|------------------------------|-----------------------------------|-----------------------------|----------------------------------|----------------------------|---------------------------------|---------------------------|-----------------------|
| 1   | 0.1539             | 34.00                              | 14.55                        | 9.80                         | 43.80                             | 24.35                       | 65.78                            | 55.79                      | -21.98                          | -31.44                    | Pass                  |
| 2   | 0.1700             | 35.86                              | 20.04                        | 9.79                         | 45.65                             | 29.83                       | 64.96                            | 54.96                      | -19.31                          | -25.13                    | Pass                  |
| 3   | 3.7660             | 28.43                              | 19.73                        | 9.88                         | 38.31                             | 29.61                       | 56.00                            | 46.00                      | -17.69                          | -16.39                    | Pass                  |
| 4   | 4.0900             | 29.79                              | 18.86                        | 9.88                         | 39.67                             | 28.74                       | 56.00                            | 46.00                      | -16.33                          | -17.26                    | Pass                  |
| 5   | 4.2900             | 30.28                              | 19.07                        | 9.88                         | 40.16                             | 28.95                       | 56.00                            | 46.00                      | -15.84                          | -17.05                    | Pass                  |
| 6*  | 15.1300            | 31.02                              | 25.43                        | 10.07                        | 41.09                             | 35.50                       | 60.00                            | 50.00                      | -18.91                          | -14.50                    | Pass                  |

Note: L2 = Line Two (Neutral Line).

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## 2.5 Test of Radiated Emission

### 2.5.1 Test Equipments

#### Below 1GHz

| Radiated_Below_1GHz 10m_EMC                                                                                               |                    |                 |               |                     |                    |
|---------------------------------------------------------------------------------------------------------------------------|--------------------|-----------------|---------------|---------------------|--------------------|
| EQUIPMENT<br>TYPE                                                                                                         | Manufacturer       | Model Number    | Serial Number | Calibration<br>Date | Calibration<br>Due |
| Bilog Antenna                                                                                                             | TESEQ              | CBL 6112D       | 31674         | 03/06/2019          | 03/05/2020         |
| Bilog Antenna                                                                                                             | TESEQ              | CBL 6112D       | 31675         | 03/22/2019          | 03/21/2020         |
| Coaxial Cable                                                                                                             | Huber+Suhner       | SUCOFLEX 104PEA | 330029        | 04/30/2019          | 04/29/2020         |
| Coaxial Cable                                                                                                             | Huber+Suhner       | 104PEA          | 33948/4PEA    | 04/30/2019          | 04/29/2020         |
| Coaxial Cable                                                                                                             | Huber+Suhner       | 104PEA          | 33949/4PEA    | 04/30/2019          | 04/29/2020         |
| Coaxial Cable                                                                                                             | Huber+Suhner       | SUCOFLEX 104PEA | 24813         | 04/30/2019          | 04/29/2020         |
| EMI Test<br>Receiver                                                                                                      | R&S                | ESCI            | 100961        | 06/20/2019          | 06/19/2020         |
| EMI Test<br>Receiver                                                                                                      | R&S                | ESCI            | 100962        | 06/24/2019          | 06/23/2020         |
| Pre-Amplifier                                                                                                             | HP                 | 8447D           | 2944A07754    | 04/30/2019          | 04/29/2020         |
| Pre-Amplifier                                                                                                             | HP                 | 8447D           | 2944A08150    | 04/30/2019          | 04/29/2020         |
| AC POWER<br>SOURE                                                                                                         | APE                | AFC-130         | 991259        | N.C.R               | N.C.R              |
| Antenna Tower                                                                                                             | CCS                | CC-A-1F         | N/A           | N.C.R               | N.C.R              |
| Antenna Tower                                                                                                             | CCS                | CC-A-1F         | N/A           | N.C.R               | N.C.R              |
| Controller                                                                                                                | CCS                | CC-C-1F         | N/A           | N.C.R               | N.C.R              |
| Controller                                                                                                                | CCS                | CC-C-1F         | N/A           | N.C.R               | N.C.R              |
| Turn Table                                                                                                                | CCS                | CC-T-1F         | N/A           | N.C.R               | N.C.R              |
| Software                                                                                                                  | EZ-EMC (CCS-3A1RE) |                 |               |                     |                    |
| Compliance Certification Services Inc. (Wugu Laboratory)                                                                  |                    |                 |               |                     |                    |
| No.139, Wugong Rd., Wugu Dist., New Taipei City 24886, Taiwan (R.O.C.)                                                    |                    |                 |               |                     |                    |
| Measurement Uncertainty of Radiated Emission                                                                              |                    |                 |               |                     |                    |
| Expanded uncertainty U <sub>lab</sub> (K=2) of radiated emission is 4.23 dB. (30MHz ~ 200MHz)                             |                    |                 |               |                     |                    |
| Expanded uncertainty U <sub>lab</sub> (K=2) of radiated emission is 4.13 dB. (200MHz ~ 1000MHz)                           |                    |                 |               |                     |                    |
| Theory values uncertainty U <sub>cispr</sub> 16-4-2:2011+A1:2014 (K=2) of radiated emission is 5.22 dB. (30MHz ~ 1000MHz) |                    |                 |               |                     |                    |

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## Above 1GHz

| Radiated_Above_1GHz 10m_EMC                                                                                                    |                    |                       |               |                  |                 |
|--------------------------------------------------------------------------------------------------------------------------------|--------------------|-----------------------|---------------|------------------|-----------------|
| EQUIPMENT TYPE                                                                                                                 | Manufacturer       | Model Number          | Serial Number | Calibration Date | Calibration Due |
| Coaxial Cable                                                                                                                  | Huber+Suhner       | SUCOFLEX 104PEA       | 329383        | 04/30/2019       | 04/29/2020      |
| Coaxial Cable                                                                                                                  | Huber+Suhner       | SUCOFLEX 104PEA       | 33945         | 04/30/2019       | 04/29/2020      |
| Horn Antenna                                                                                                                   | ETS LINDGREN       | 3116                  | 00026370      | 12/26/2018       | 12/25/2019      |
| Horn Antenna                                                                                                                   | EMCO               | 3117                  | 00055167      | 12/24/2018       | 12/23/2019      |
| Pre-Amplifier                                                                                                                  | EMCI               | EMC051845             | 980040        | 04/30/2019       | 04/29/2020      |
| Pre-Amplifier                                                                                                                  | MITEQ              | AMF-6F-18004000-37-8P | 985646        | 06/18/2019       | 06/17/2020      |
| Spectrum Analyzer                                                                                                              | Agilent            | E4446A                | MY48250297    | 08/27/2019       | 08/26/2020      |
| AC POWER SOURE                                                                                                                 | APE                | AFC-130               | 991259        | N.C.R            | N.C.R           |
| Antenna Tower                                                                                                                  | Sunol Sciences     | TLT2                  | 031010-5      | N.C.R            | N.C.R           |
| Controller                                                                                                                     | Sunol Sciences     | SC104V                | 031010-1      | N.C.R            | N.C.R           |
| Turn Table                                                                                                                     | CCS                | CC-T-1F               | N/A           | N.C.R            | N.C.R           |
| Software                                                                                                                       | EZ-EMC (CCS-3A1RE) |                       |               |                  |                 |
| Compliance Certification Services Inc. (Wugu Laboratory)                                                                       |                    |                       |               |                  |                 |
| No.139, Wugong Rd., Wugu Dist., New Taipei City 24886, Taiwan (R.O.C.)                                                         |                    |                       |               |                  |                 |
| Measurement Uncertainty of Radiated Emission                                                                                   |                    |                       |               |                  |                 |
| Expanded uncertainty U <sub>lab</sub> (K=2) of radiated emission is 4.89 dB. (1-6GHz)                                          |                    |                       |               |                  |                 |
| Expanded uncertainty U <sub>lab</sub> (K=2) of radiated emission is 5.27 dB. (6-18GHz)                                         |                    |                       |               |                  |                 |
| Expanded uncertainty U <sub>lab</sub> (K=2) of radiated emission is 4.13 dB. (18-26GHz)                                        |                    |                       |               |                  |                 |
| Expanded uncertainty U <sub>lab</sub> (K=2) of radiated emission is 4.28 dB. (26-40GHz)                                        |                    |                       |               |                  |                 |
| Theory values uncertainty U <sub>cispr</sub> 16-4-2:2011+A1:2014 (K=2) of Iradiated emission measurement is 5.18 dB.(1-6GHz)   |                    |                       |               |                  |                 |
| Theory values uncertainty U <sub>cispr</sub> 16-4-2:2011+A1:2014 (K=2) of Iradiated emission measurement is 5.48 dB.(6-18GHz)  |                    |                       |               |                  |                 |
| Theory values uncertainty U <sub>cispr</sub> 16-4-2:2011+A1:2014 (K=2) of Iradiated emission measurement is ---- dB.(18-26GHz) |                    |                       |               |                  |                 |
| Theory values uncertainty U <sub>cispr</sub> 16-4-2:2011+A1:2014 (K=2) of Iradiated emission measurement is ---- dB.(26-40GHz) |                    |                       |               |                  |                 |

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## 2.5.2 Operating Environment

Temperature : 23&26 degree C

Humidity : 53&60 %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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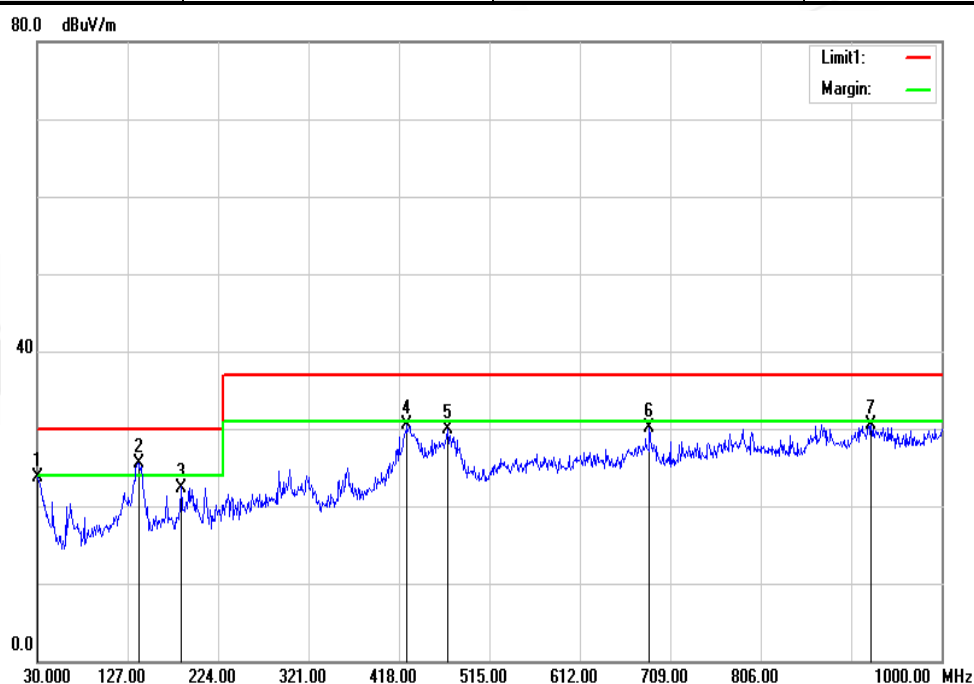
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## 2.5.4 Measurement Data

## Below 1GHz

|                          |              |                   |                 |
|--------------------------|--------------|-------------------|-----------------|
| Model no.                | TPN-I137     | Test Mode         | Mode 18         |
| Environmental Conditions | 23°C, 53% RH | Test Date         | 2019/11/23      |
| Antenna Pole             | Vertical     | Antenna Distance  | 10m             |
| Detector Function        | Quasi-peak.  | Tested by         | Rex Kuo         |
| 6dB Bandwidth            | 120 kHz      | Identifier number | TCOP RE site 17 |



| No. | Frequency (MHz) | Reading (dBuV) | Correction Factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Height (cm) | Degree (°) | Remark |
|-----|-----------------|----------------|--------------------------|-----------------|----------------|-------------|-------------|------------|--------|
| 1   | 30.9700         | 26.58          | -2.79                    | 23.79           | 30.00          | -6.21       | 100         | 3          | QP     |
| 2   | 138.6400        | 33.89          | -8.31                    | 25.58           | 30.00          | -4.42       | 100         | 222        | QP     |
| 3   | 184.2300        | 32.17          | -9.77                    | 22.40           | 30.00          | -7.60       | 100         | 170        | QP     |
| 4   | 426.7300        | 31.29          | -0.83                    | 30.46           | 37.00          | -6.54       | 399         | 1          | QP     |
| 5   | 470.3800        | 30.32          | -0.46                    | 29.86           | 37.00          | -7.14       | 299         | 0          | QP     |
| 6   | 686.6900        | 27.93          | 2.20                     | 30.13           | 37.00          | -6.87       | 399         | 118        | QP     |
| 7   | 924.3400        | 25.23          | 5.31                     | 30.54           | 37.00          | -6.46       | 299         | 344        | QP     |

## REMARKS:

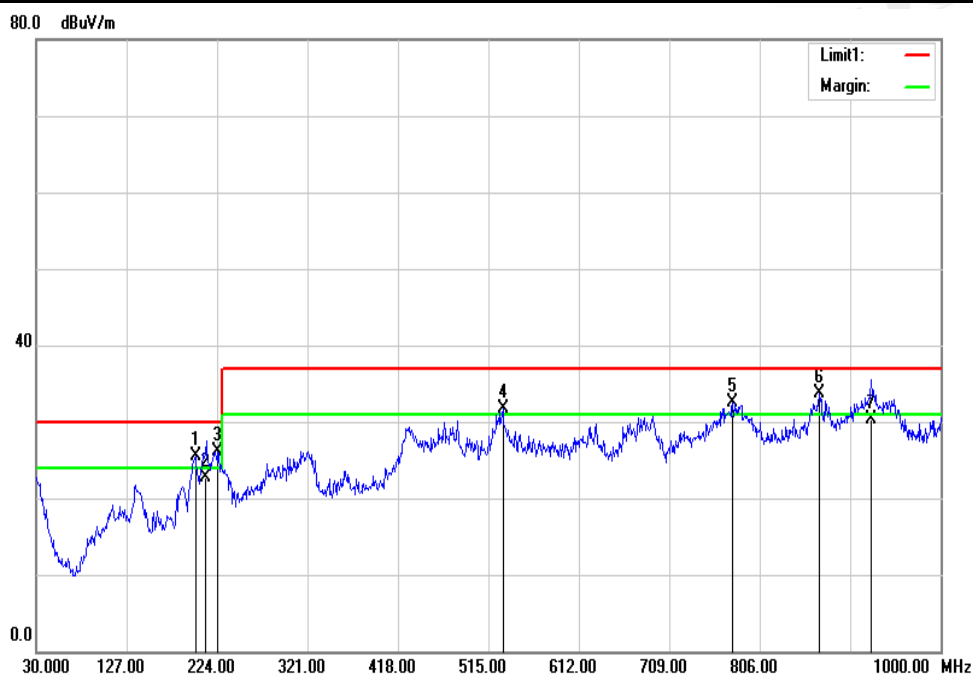
1. The other emission levels were very low against the limit.
2. 30MHz to 1000MHz test is Applicable CISPR 22 standard.

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|                          |              |                   |                 |
|--------------------------|--------------|-------------------|-----------------|
| Model no.                | TPN-I137     | Test Mode         | Mode 18         |
| Environmental Conditions | 23°C, 53% RH | Test Date         | 2019/11/23      |
| Antenna Pole             | Horizontal   | Antenna Distance  | 10m             |
| Detector Function        | Quasi-peak.  | Tested by         | Rex Kuo         |
| 6dB Bandwidth            | 120 kHz      | Identifier number | TCOP RE site 17 |



| No. | Frequency (MHz) | Reading (dBuV) | Correction Factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Height (cm) | Degree (°) | Remark |
|-----|-----------------|----------------|--------------------------|-----------------|----------------|-------------|-------------|------------|--------|
| 1   | 200.7200        | 36.04          | -10.47                   | 25.57           | 30.00          | -4.43       | 300         | 359        | QP     |
| 2   | 212.2600        | 32.94          | -10.29                   | 22.65           | 30.00          | -7.35       | 307         | 0          | QP     |
| 3   | 224.9700        | 35.62          | -9.54                    | 26.08           | 30.00          | -3.92       | 200         | 0          | QP     |
| 4   | 530.5200        | 33.37          | -1.74                    | 31.63           | 37.00          | -5.37       | 200         | 297        | QP     |
| 5   | 776.9000        | 31.15          | 1.38                     | 32.53           | 37.00          | -4.47       | 100         | 171        | QP     |
| 6   | 870.0200        | 31.01          | 2.69                     | 33.70           | 37.00          | -3.30       | 100         | 299        | QP     |
| 7   | 925.1300        | 26.88          | 3.45                     | 30.33           | 37.00          | -6.67       | 300         | 291        | QP     |

## REMARKS:

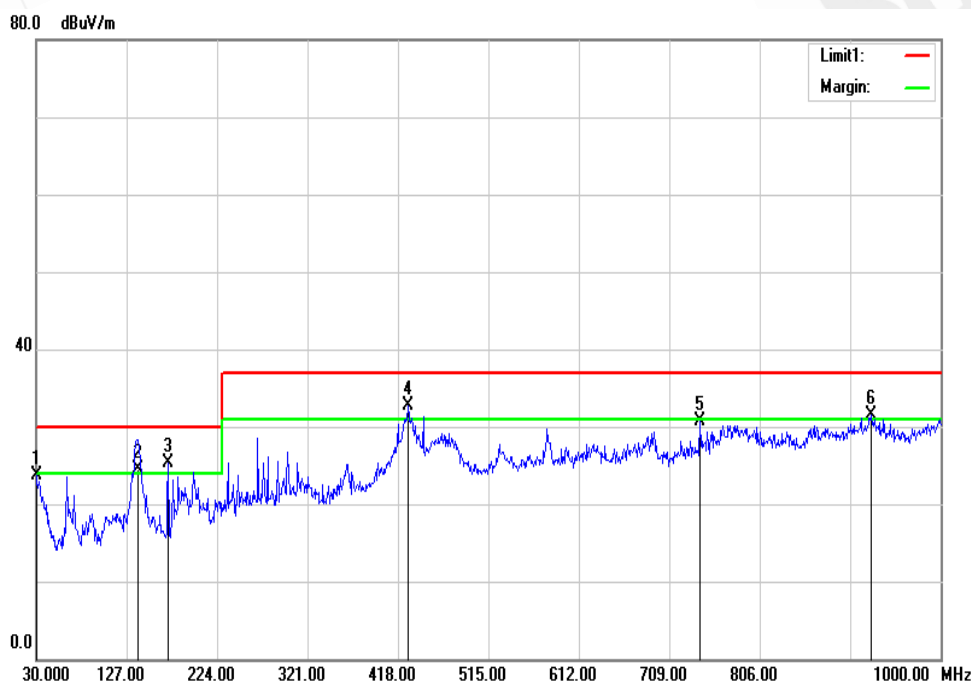
1. The other emission levels were very low against the limit.
2. 30MHz to 1000MHz test is Applicable CISPR 22 standard.

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|                          |              |                   |                 |
|--------------------------|--------------|-------------------|-----------------|
| Model no.                | TPN-I137     | Test Mode         | Mode 36         |
| Environmental Conditions | 23°C, 53% RH | Test Date         | 2019/11/23      |
| Antenna Pole             | Vertical     | Antenna Distance  | 10m             |
| Detector Function        | Quasi-peak.  | Tested by         | Rex Kuo         |
| 6dB Bandwidth            | 120 kHz      | Identifier number | TCOP RE site 17 |



| No. | Frequency (MHz) | Reading (dBuV) | Correction Factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Height (cm) | Degree (°) | Remark |
|-----|-----------------|----------------|--------------------------|-----------------|----------------|-------------|-------------|------------|--------|
| 1   | 30.0000         | 26.03          | -2.32                    | 23.71           | 30.00          | -6.29       | 100         | 342        | QP     |
| 2   | 138.6500        | 32.88          | -8.31                    | 24.57           | 30.00          | -5.43       | 101         | 360        | QP     |
| 3   | 171.6200        | 34.86          | -9.52                    | 25.34           | 30.00          | -4.66       | 100         | 180        | QP     |
| 4   | 428.6700        | 33.53          | -0.86                    | 32.67           | 37.00          | -4.33       | 299         | 360        | QP     |
| 5   | 741.9800        | 27.61          | 3.03                     | 30.64           | 37.00          | -6.36       | 299         | 96         | QP     |
| 6   | 925.3100        | 26.09          | 5.33                     | 31.42           | 37.00          | -5.58       | 199         | 100        | QP     |

## REMARKS:

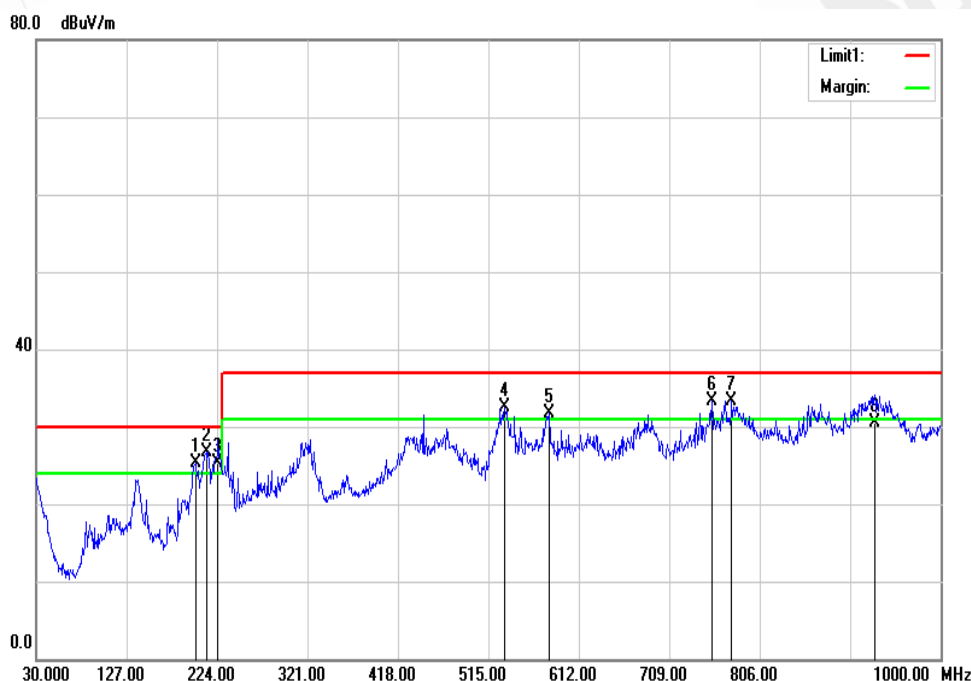
1. The other emission levels were very low against the limit.
2. 30MHz to 1000MHz test is Applicable CISPR 22 standard.

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|                          |              |                   |                 |
|--------------------------|--------------|-------------------|-----------------|
| Model no.                | TPN-I137     | Test Mode         | Mode 36         |
| Environmental Conditions | 23°C, 53% RH | Test Date         | 2019/11/23      |
| Antenna Pole             | Horizontal   | Antenna Distance  | 10m             |
| Detector Function        | Quasi-peak.  | Tested by         | Rex Kuo         |
| 6dB Bandwidth            | 120 kHz      | Identifier number | TCOP RE site 17 |



| No. | Frequency (MHz) | Reading (dBuV) | Correction Factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Height (cm) | Degree (°) | Remark |
|-----|-----------------|----------------|--------------------------|-----------------|----------------|-------------|-------------|------------|--------|
| 1   | 200.7200        | 35.77          | -10.47                   | 25.30           | 30.00          | -4.70       | 296         | 0          | QP     |
| 2   | 212.3600        | 37.06          | -10.28                   | 26.78           | 30.00          | -3.22       | 299         | 0          | QP     |
| 3   | 225.0900        | 34.92          | -9.53                    | 25.39           | 30.00          | -4.61       | 298         | 0          | QP     |
| 4   | 532.4600        | 34.28          | -1.68                    | 32.60           | 37.00          | -4.40       | 200         | 288        | QP     |
| 5   | 579.9900        | 32.43          | -0.77                    | 31.66           | 37.00          | -5.34       | 399         | 360        | QP     |
| 6   | 754.5900        | 31.95          | 1.27                     | 33.22           | 37.00          | -3.78       | 100         | 227        | QP     |
| 7   | 775.9300        | 31.93          | 1.38                     | 33.31           | 37.00          | -3.69       | 100         | 227        | QP     |
| 8   | 929.1900        | 26.99          | 3.54                     | 30.53           | 37.00          | -6.47       | 100         | 260        | QP     |

**REMARKS:**

1. The other emission levels were very low against the limit.
2. 30MHz to 1000MHz test is Applicable CISPR 22 standard.

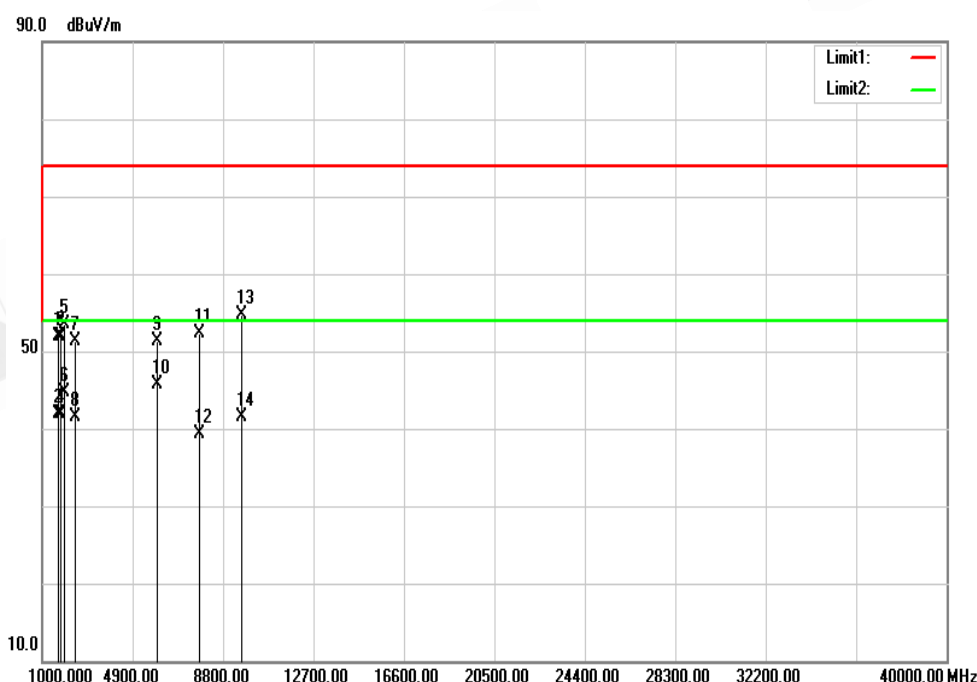
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## Above 1GHz

|                                     |                 |                   |                 |
|-------------------------------------|-----------------|-------------------|-----------------|
| Model no.                           | TPN-I137        | Test Mode         | Mode 18         |
| Environmental Conditions            | 23°C, 53% RH    | Test Date         | 2019/11/23      |
| Antenna Pole                        | Vertical        | Antenna Distance  | 3m              |
| Highest frequency generated or used | 1.3GHz          | Upper frequency   | 6.5GHz          |
| Detector Function                   | Peak & Average. | Tested by         | Rex Kuo         |
| 6dB Bandwidth                       | 1 MHz           | Identifier number | TCOP RF site 17 |



| No. | Frequency (MHz) | Reading (dBuV) | Correction Factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Height (cm) | Degree (°) | Remark |
|-----|-----------------|----------------|--------------------------|-----------------|----------------|-------------|-------------|------------|--------|
| 1   | 1688.500        | 69.89          | -17.93                   | 51.96           | 74.00          | -22.04      | 200         | 42         | peak   |
| 2   | 1688.500        | 59.87          | -17.93                   | 41.94           | 54.00          | -12.06      | 200         | 42         | AVG    |
| 3   | 1756.500        | 69.15          | -17.32                   | 51.83           | 74.00          | -22.17      | 199         | 0          | peak   |
| 4   | 1756.500        | 59.31          | -17.32                   | 41.99           | 54.00          | -12.01      | 199         | 0          | AVG    |
| 5   | 1969.000        | 68.76          | -15.32                   | 53.44           | 74.00          | -20.56      | 300         | 250        | peak   |
| 6   | 1969.000        | 60.03          | -15.32                   | 44.71           | 54.00          | -9.29       | 300         | 250        | AVG    |
| 7   | 2368.500        | 65.53          | -14.30                   | 51.23           | 74.00          | -22.77      | 200         | 64         | peak   |

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|    |          |       |        |       |       |        |     |     |      |
|----|----------|-------|--------|-------|-------|--------|-----|-----|------|
| 8  | 2368.500 | 55.79 | -14.30 | 41.49 | 54.00 | -12.51 | 200 | 64  | AVG  |
| 9  | 5938.500 | 56.84 | -5.54  | 51.30 | 74.00 | -22.70 | 162 | 0   | peak |
| 10 | 5938.500 | 51.30 | -5.54  | 45.76 | 54.00 | -8.24  | 162 | 0   | AVG  |
| 11 | 7774.500 | 55.93 | -3.55  | 52.38 | 74.00 | -21.62 | 300 | 152 | peak |
| 12 | 7774.500 | 42.93 | -3.55  | 39.38 | 54.00 | -14.62 | 300 | 152 | AVG  |
| 13 | 9542.500 | 55.04 | -0.25  | 54.79 | 74.00 | -19.21 | 205 | 360 | peak |
| 14 | 9542.500 | 41.75 | -0.25  | 41.50 | 54.00 | -12.50 | 205 | 360 | AVG  |

**REMARKS:**

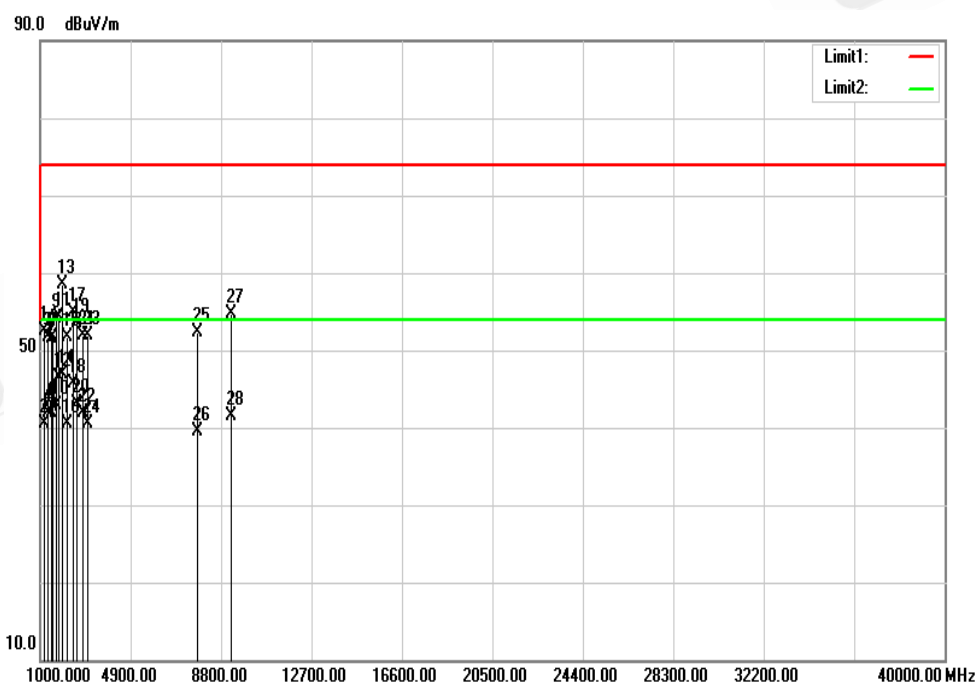
1. The other emission levels were very low against the limit.
2. Margin (dB) = Result (dBuV/m) – Limit (dBuV/m)

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|                                     |                 |                   |                 |
|-------------------------------------|-----------------|-------------------|-----------------|
| Model no.                           | TPN-I137        | Test Mode         | Mode 18         |
| Environmental Conditions            | 23°C, 53% RH    | Test Date         | 2019/11/23      |
| Antenna Pole                        | Horizontal      | Antenna Distance  | 3m              |
| Highest frequency generated or used | 1.3GHz          | Upper frequency   | 6.5GHz          |
| Detector Function                   | Peak & Average. | Tested by         | Rex Kuo         |
| 6dB Bandwidth                       | 1 MHz           | Identifier number | TCOP RF site 17 |



| No. | Frequency (MHz) | Reading (dBuV) | Correction Factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Height (cm) | Degree (°) | Remark |
|-----|-----------------|----------------|--------------------------|-----------------|----------------|-------------|-------------|------------|--------|
| 1   | 1136.000        | 71.77          | -19.35                   | 52.42           | 74.00          | -21.58      | 300         | 193        | peak   |
| 2   | 1136.000        | 59.77          | -19.35                   | 40.42           | 54.00          | -13.58      | 300         | 193        | AVG    |
| 3   | 1280.500        | 70.61          | -18.81                   | 51.80           | 74.00          | -22.20      | 200         | 121        | peak   |
| 4   | 1280.500        | 60.69          | -18.81                   | 41.88           | 54.00          | -12.12      | 200         | 121        | AVG    |
| 5   | 1476.000        | 70.06          | -18.60                   | 51.46           | 74.00          | -22.54      | 200         | 205        | peak   |
| 6   | 1476.000        | 60.55          | -18.60                   | 41.95           | 54.00          | -12.05      | 200         | 205        | AVG    |
| 7   | 1535.500        | 70.44          | -18.66                   | 51.78           | 74.00          | -22.22      | 300         | 109        | peak   |
| 8   | 1535.500        | 61.32          | -18.66                   | 42.66           | 54.00          | -11.34      | 300         | 109        | AVG    |

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|    |          |       |        |       |       |        |     |     |      |
|----|----------|-------|--------|-------|-------|--------|-----|-----|------|
| 9  | 1688.500 | 72.03 | -17.93 | 54.10 | 74.00 | -19.90 | 200 | 99  | peak |
| 10 | 1688.500 | 60.90 | -17.93 | 42.97 | 54.00 | -11.03 | 200 | 99  | AVG  |
| 11 | 1773.500 | 71.53 | -17.16 | 54.37 | 74.00 | -19.63 | 200 | 227 | peak |
| 12 | 1773.500 | 63.58 | -17.16 | 46.42 | 54.00 | -7.58  | 200 | 227 | AVG  |
| 13 | 1926.500 | 74.32 | -15.72 | 58.60 | 74.00 | -15.40 | 100 | 247 | peak |
| 14 | 1926.500 | 62.65 | -15.72 | 46.93 | 54.00 | -7.07  | 100 | 247 | AVG  |
| 15 | 2164.500 | 66.31 | -14.55 | 51.76 | 74.00 | -22.24 | 200 | 220 | peak |
| 16 | 2164.500 | 55.13 | -14.55 | 40.58 | 54.00 | -13.42 | 200 | 220 | AVG  |
| 17 | 2394.000 | 69.19 | -14.29 | 54.90 | 74.00 | -19.10 | 200 | 99  | peak |
| 18 | 2394.000 | 59.90 | -14.29 | 45.61 | 54.00 | -8.39  | 200 | 99  | AVG  |
| 19 | 2598.000 | 67.48 | -13.91 | 53.57 | 74.00 | -20.43 | 200 | 220 | peak |
| 20 | 2598.000 | 57.02 | -13.91 | 43.11 | 54.00 | -10.89 | 200 | 220 | AVG  |
| 21 | 2810.500 | 65.00 | -13.09 | 51.91 | 74.00 | -22.09 | 200 | 190 | peak |
| 22 | 2810.500 | 55.06 | -13.09 | 41.97 | 54.00 | -12.03 | 200 | 190 | AVG  |
| 23 | 3014.500 | 64.38 | -12.51 | 51.87 | 74.00 | -22.13 | 100 | 103 | peak |
| 24 | 3014.500 | 52.98 | -12.51 | 40.47 | 54.00 | -13.53 | 100 | 103 | AVG  |
| 25 | 7774.500 | 55.77 | -3.55  | 52.22 | 74.00 | -21.78 | 100 | 352 | peak |
| 26 | 7774.500 | 43.02 | -3.55  | 39.47 | 54.00 | -14.53 | 100 | 352 | AVG  |
| 27 | 9194.000 | 55.82 | -1.16  | 54.66 | 74.00 | -19.34 | 300 | 291 | peak |
| 28 | 9194.000 | 42.73 | -1.16  | 41.57 | 54.00 | -12.43 | 300 | 291 | AVG  |

**REMARKS:**

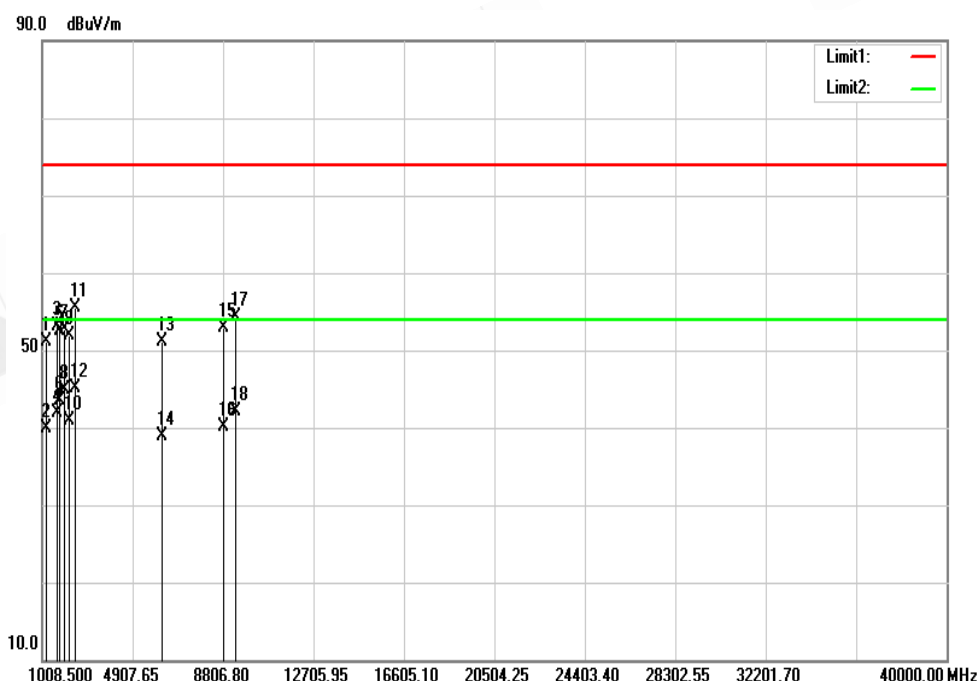
1. The other emission levels were very low against the limit.
2. Margin (dB) = Result (dBuV/m) – Limit (dBuV/m)

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|                                     |                 |                   |                 |
|-------------------------------------|-----------------|-------------------|-----------------|
| Model no.                           | TPN-I137        | Test Mode         | Mode 36         |
| Environmental Conditions            | 26°C, 60% RH    | Test Date         | 2019/11/23      |
| Antenna Pole                        | Vertical        | Antenna Distance  | 3m              |
| Highest frequency generated or used | 1.3GHz          | Upper frequency   | 6.5GHz          |
| Detector Function                   | Peak & Average. | Tested by         | Rex Kuo         |
| 6dB Bandwidth                       | 1 MHz           | Identifier number | TCOP RF site 17 |



| No. | Frequency (MHz) | Reading (dBuV) | Correction Factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Height (cm) | Degree (°) | Remark |
|-----|-----------------|----------------|--------------------------|-----------------|----------------|-------------|-------------|------------|--------|
| 1   | 1136.000        | 70.37          | -19.35                   | 51.02           | 74.00          | -22.98      | 200         | 64         | peak   |
| 2   | 1136.000        | 59.19          | -19.35                   | 39.84           | 54.00          | -14.16      | 200         | 64         | AVG    |
| 3   | 1654.500        | 71.31          | -18.23                   | 53.08           | 74.00          | -20.92      | 200         | 170        | peak   |
| 4   | 1654.500        | 60.15          | -18.23                   | 41.92           | 54.00          | -12.08      | 200         | 170        | AVG    |
| 5   | 1748.000        | 69.81          | -17.39                   | 52.42           | 74.00          | -21.58      | 200         | 42         | peak   |
| 6   | 1748.000        | 60.88          | -17.39                   | 43.49           | 54.00          | -10.51      | 200         | 42         | AVG    |
| 7   | 1960.500        | 68.17          | -15.40                   | 52.77           | 74.00          | -21.23      | 200         | 277        | peak   |

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|    |          |       |        |       |       |        |     |     |      |
|----|----------|-------|--------|-------|-------|--------|-----|-----|------|
| 8  | 1960.500 | 60.33 | -15.40 | 44.93 | 54.00 | -9.07  | 200 | 277 | AVG  |
| 9  | 2173.000 | 66.36 | -14.53 | 51.83 | 74.00 | -22.17 | 200 | 178 | peak |
| 10 | 2173.000 | 55.38 | -14.53 | 40.85 | 54.00 | -13.15 | 200 | 178 | AVG  |
| 11 | 2394.000 | 69.74 | -14.29 | 55.45 | 74.00 | -18.55 | 200 | 262 | peak |
| 12 | 2394.000 | 59.37 | -14.29 | 45.08 | 54.00 | -8.92  | 200 | 262 | AVG  |
| 13 | 6125.500 | 55.89 | -4.79  | 51.10 | 74.00 | -22.90 | 101 | 0   | peak |
| 14 | 6125.500 | 43.65 | -4.79  | 38.86 | 54.00 | -15.14 | 101 | 0   | AVG  |
| 15 | 8777.500 | 55.09 | -2.09  | 53.00 | 74.00 | -21.00 | 300 | 227 | peak |
| 16 | 8777.500 | 42.24 | -2.09  | 40.15 | 54.00 | -13.85 | 300 | 227 | AVG  |
| 17 | 9338.500 | 55.02 | -0.76  | 54.26 | 74.00 | -19.74 | 200 | 0   | peak |
| 18 | 9338.500 | 42.90 | -0.76  | 42.14 | 54.00 | -11.86 | 200 | 0   | AVG  |

**REMARKS:**

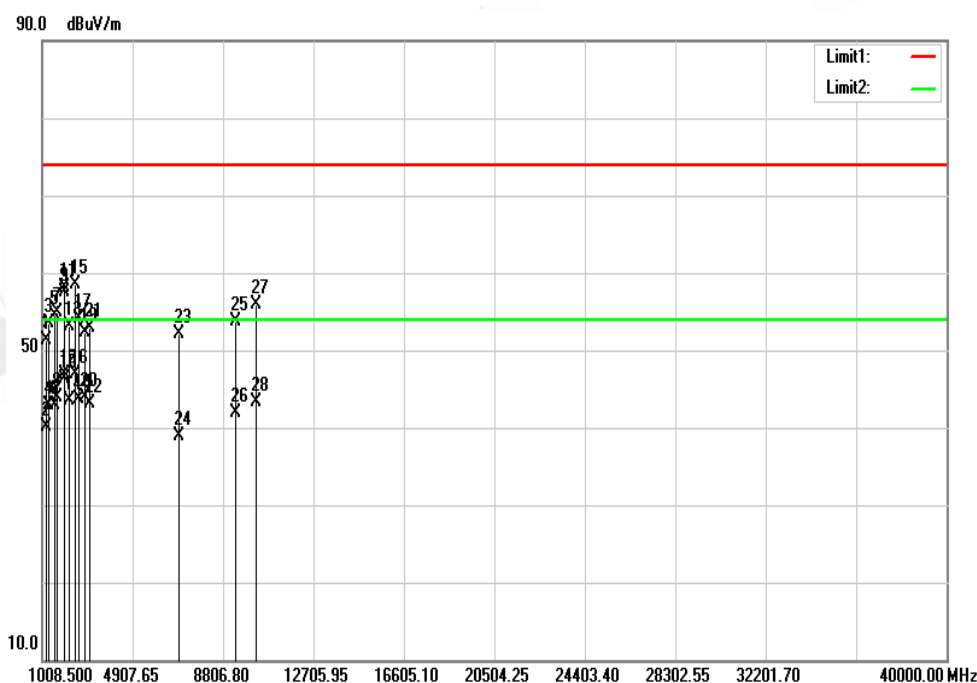
1. The other emission levels were very low against the limit.
2. Margin (dB) = Result (dBuV/m) – Limit (dBuV/m)

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|                                     |                 |                   |                 |
|-------------------------------------|-----------------|-------------------|-----------------|
| Model no.                           | TPN-I137        | Test Mode         | Mode 36         |
| Environmental Conditions            | 26°C, 60% RH    | Test Date         | 2019/11/23      |
| Antenna Pole                        | Horizontal      | Antenna Distance  | 3m              |
| Highest frequency generated or used | 1.3GHz          | Upper frequency   | 6.5GHz          |
| Detector Function                   | Peak & Average. | Tested by         | Rex Kuo         |
| 6dB Bandwidth                       | 1 MHz           | Identifier number | TCOP RF site 17 |



| No. | Frequency (MHz) | Reading (dBuV) | Correction Factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Height (cm) | Degree (°) | Remark |
|-----|-----------------|----------------|--------------------------|-----------------|----------------|-------------|-------------|------------|--------|
| 1   | 1127.500        | 70.78          | -19.40                   | 51.38           | 74.00          | -22.62      | 200         | 303        | peak   |
| 2   | 1127.500        | 59.53          | -19.40                   | 40.13           | 54.00          | -13.87      | 200         | 303        | AVG    |
| 3   | 1272.000        | 72.34          | -18.83                   | 53.51           | 74.00          | -20.49      | 200         | 121        | peak   |
| 4   | 1272.000        | 61.79          | -18.83                   | 42.96           | 54.00          | -11.04      | 200         | 121        | AVG    |
| 5   | 1535.500        | 73.15          | -18.66                   | 54.49           | 74.00          | -19.51      | 300         | 109        | peak   |
| 6   | 1535.500        | 61.54          | -18.66                   | 42.88           | 54.00          | -11.12      | 300         | 109        | AVG    |
| 7   | 1663.000        | 73.08          | -18.16                   | 54.92           | 74.00          | -19.08      | 200         | 121        | peak   |

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|    |           |       |        |       |       |        |     |     |      |
|----|-----------|-------|--------|-------|-------|--------|-----|-----|------|
| 8  | 1663.000  | 62.05 | -18.16 | 43.89 | 54.00 | -10.11 | 200 | 121 | AVG  |
| 9  | 1918.000  | 73.28 | -15.81 | 57.47 | 74.00 | -16.53 | 100 | 238 | peak |
| 10 | 1918.000  | 62.21 | -15.81 | 46.40 | 54.00 | -7.60  | 100 | 238 | AVG  |
| 11 | 1969.000  | 73.34 | -15.32 | 58.02 | 74.00 | -15.98 | 100 | 238 | peak |
| 12 | 1969.000  | 62.15 | -15.32 | 46.83 | 54.00 | -7.17  | 100 | 238 | AVG  |
| 13 | 2173.000  | 67.57 | -14.53 | 53.04 | 74.00 | -20.96 | 200 | 144 | peak |
| 14 | 2173.000  | 58.08 | -14.53 | 43.55 | 54.00 | -10.45 | 200 | 144 | AVG  |
| 15 | 2402.500  | 72.69 | -14.28 | 58.41 | 74.00 | -15.59 | 200 | 99  | peak |
| 16 | 2402.500  | 61.19 | -14.28 | 46.91 | 54.00 | -7.09  | 200 | 99  | AVG  |
| 17 | 2581.000  | 67.97 | -13.94 | 54.03 | 74.00 | -19.97 | 200 | 83  | peak |
| 18 | 2581.000  | 57.73 | -13.94 | 43.79 | 54.00 | -10.21 | 200 | 83  | AVG  |
| 19 | 2836.000  | 65.42 | -13.02 | 52.40 | 74.00 | -21.60 | 200 | 129 | peak |
| 20 | 2836.000  | 56.96 | -13.02 | 43.94 | 54.00 | -10.06 | 200 | 129 | AVG  |
| 21 | 2997.500  | 65.45 | -12.54 | 52.91 | 74.00 | -21.09 | 100 | 140 | peak |
| 22 | 2997.500  | 55.70 | -12.54 | 43.16 | 54.00 | -10.84 | 100 | 140 | AVG  |
| 23 | 6882.000  | 55.79 | -3.76  | 52.03 | 74.00 | -21.97 | 200 | 250 | peak |
| 24 | 6882.000  | 42.70 | -3.76  | 38.94 | 54.00 | -15.06 | 200 | 250 | AVG  |
| 25 | 9321.500  | 54.50 | -0.81  | 53.69 | 74.00 | -20.31 | 300 | 139 | peak |
| 26 | 9321.500  | 42.77 | -0.81  | 41.96 | 54.00 | -12.04 | 300 | 139 | AVG  |
| 27 | 10188.500 | 54.61 | 1.38   | 55.99 | 74.00 | -18.01 | 200 | 354 | peak |
| 28 | 10188.500 | 41.83 | 1.38   | 43.21 | 54.00 | -10.79 | 200 | 354 | AVG  |

**REMARKS:**

1. The other emission levels were very low against the limit.
2. Margin (dB) = Result (dBuV/m) – Limit (dBuV/m)

**The frequency band during 18GHz till 26.5 GHz that was not reported was verified with no extra obvious finding except ambient signals.**

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### 3. Photographs of Test

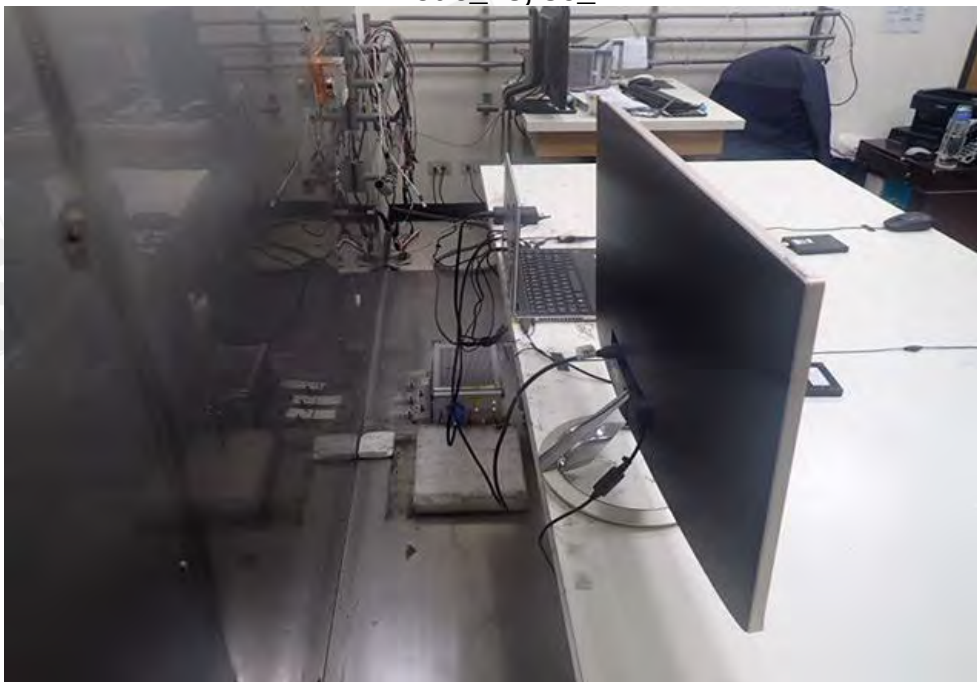
#### CE Testing Set-up

Model No.: TPN-I137

Mode\_18, 36\_+



Mode\_18, 36\_-



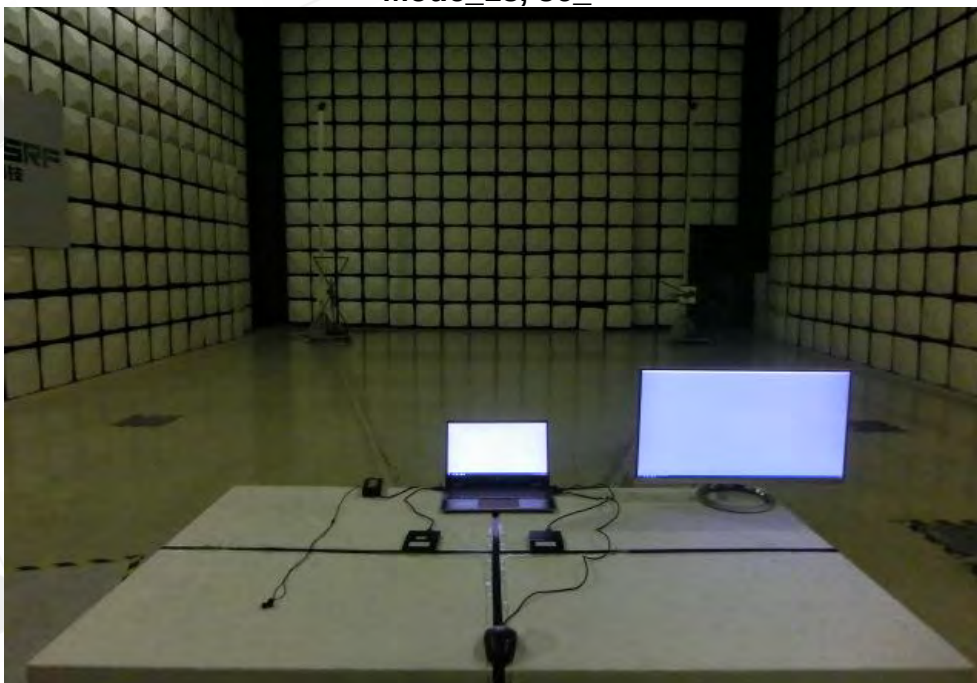
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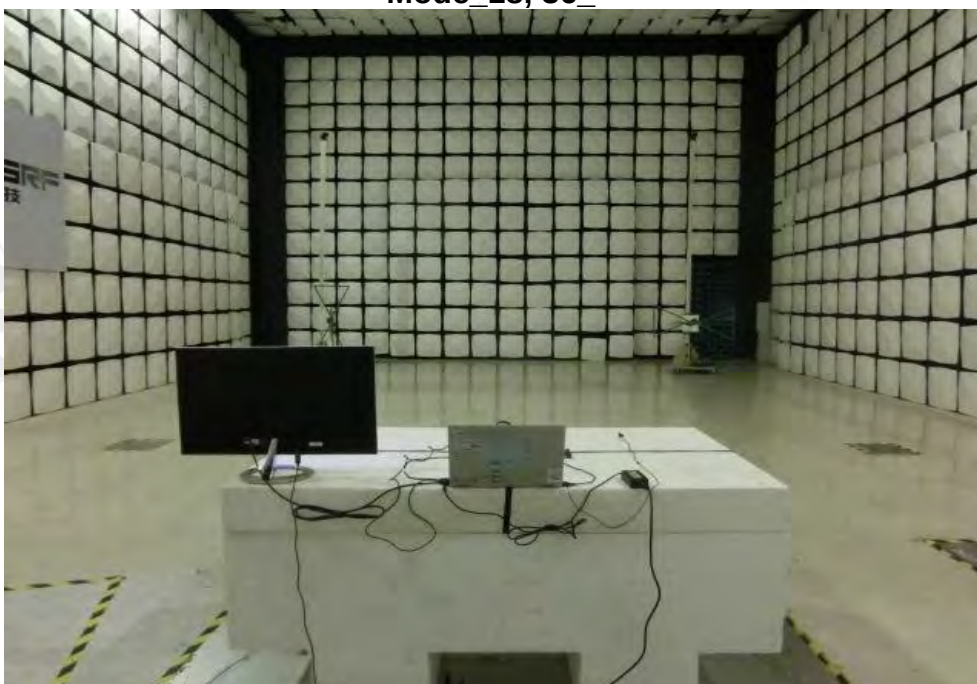
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## RE Testing Set-up Below 1GHz

Model No.: TPN-I137  
Mode 18, 36 +



Mode 18, 36 -



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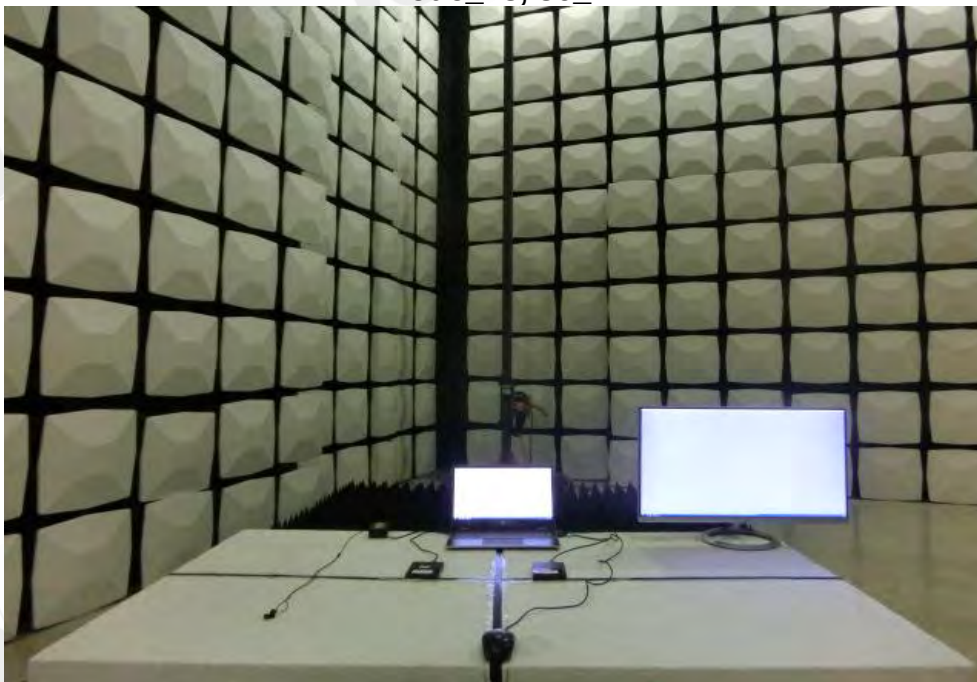
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Above 1GHz

Model No.: TPN-I137

Mode\_18, 36\_+



Mode\_18, 36\_-



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## 4. Photographs of Product

Exterior

Model No.: TPN-I137



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## Adapter Model No.: TPN-AA05



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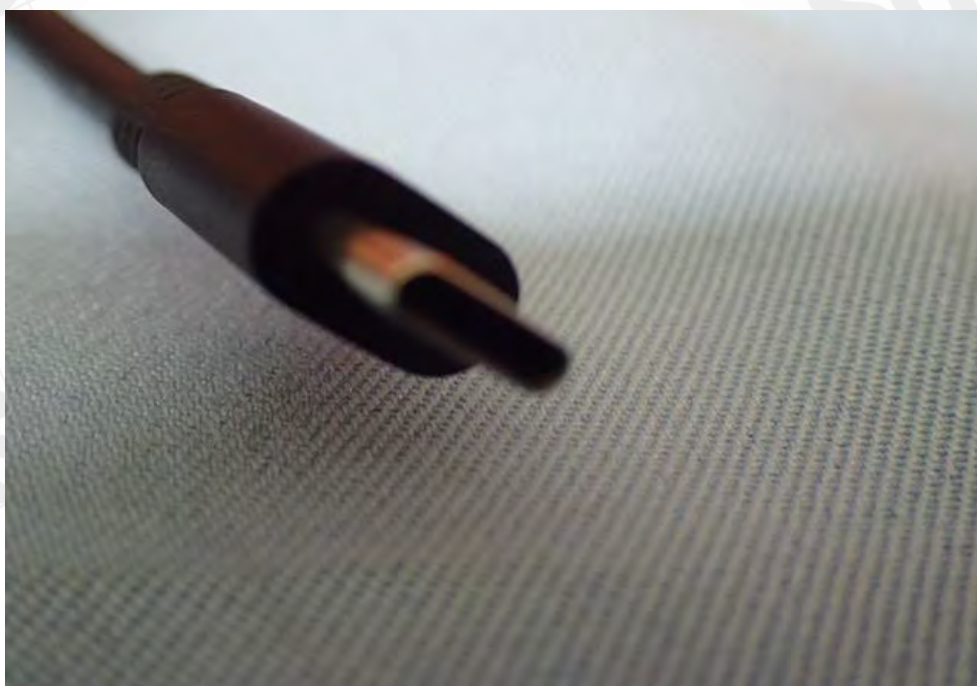
## Adapter Model No.: TPN-AA07



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## Adapter Model No.: TPN-CA14



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## Adapter Model No.: TPN-CA17



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## Adapter Model No.: TPN-CA20



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## Adapter Model No.: TPN-DA15



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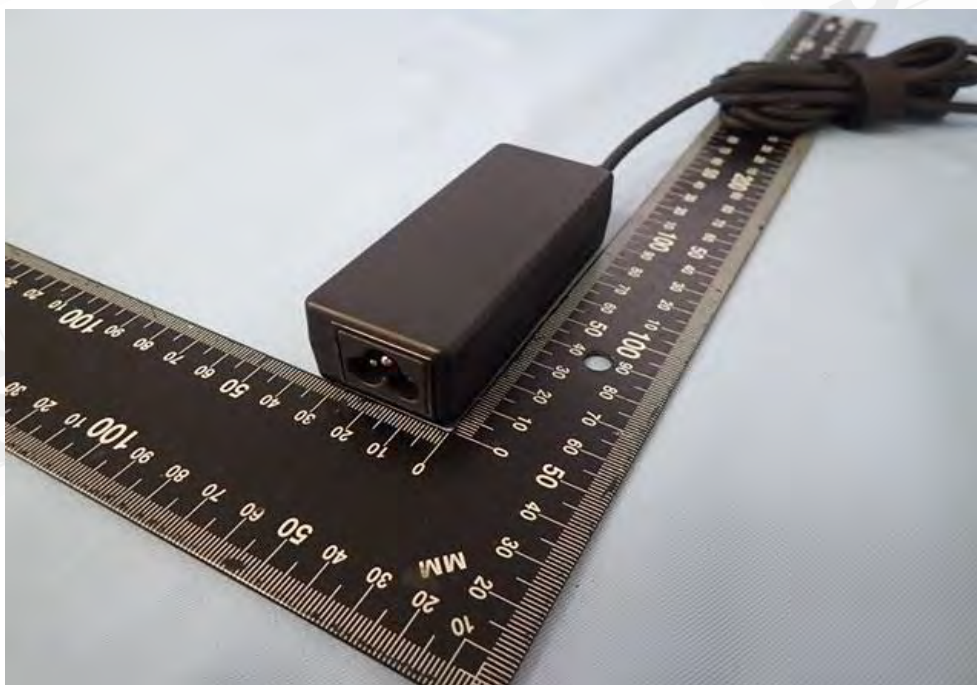


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## Adapter Model No.: TPN-DA16



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## Adapter Model No.: TPN-LA15



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## Adapter Model No.: TPN-LA17



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Pen Model No.: Waltop / TCS-H02



Pen Model No.: Waltop / TCS-H02B



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Pen Model No.: Sunwoda / TCS-H02



Pen Model No.: Sunwoda / TCS-H02B

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

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