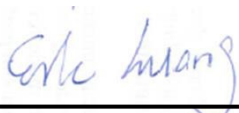


# RF Exposure Evaluation Report

APPLICANT : Wistron Corporation  
EQUIPMENT : Tablet PC  
BRAND NAME : Lenovo  
MODEL NAME : TP00082A  
FCC ID : PU5-TP00082ASI  
STANDARD : FCC 47 CFR Part 2 (2.1093)  
ANSI/IEEE C95.1-1992  
IEEE 1528-2013

We, SPORTON INTERNATIONAL INC., would like to declare that the tested sample has been evaluated in accordance with the procedures and had been in compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL INC., the test report shall not be reproduced except in full.



Reviewed by: Eric Huang / Deputy Manager



Approved by: Jones Tsai / Manager



## SPORTON INTERNATIONAL INC.

No.52, Hwa Ya 1st Rd., Hwa Ya Technology Park, Kwei-Shan District, Taoyuan City, Taiwan (R.O.C.)



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## **Revision History**

| REPORT NO.  | VERSION | DESCRIPTION             | ISSUED DATE   |
|-------------|---------|-------------------------|---------------|
| FA5N2711-17 | Rev. 01 | Initial issue of report | Apr. 24, 2017 |
|             |         |                         |               |
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## **1. Administration Data**

| Testing Laboratory |                                                                                                                                                  |
|--------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|
| Test Site          | SPORTON INTERNATIONAL INC.                                                                                                                       |
| Test Site Location | No.52, Hwa Ya 1st Rd., Hwa Ya Technology Park, Kwei-Shan District, Taoyuan City, Taiwan (R.O.C.)<br>TEL: +886-3-327-3456<br>FAX: +886-3-328-4978 |

| Applicant    |                                                                                        |
|--------------|----------------------------------------------------------------------------------------|
| Company Name | Wistron Corporation                                                                    |
| Address      | 21F, No. 88, Sec. 1, Hsin Tai Wu Rd., Hsichih Dist, New Taipei City 221, Taiwan R.O.C. |

| Manufacturer |                                                                                        |
|--------------|----------------------------------------------------------------------------------------|
| Company Name | Wistron Corporation                                                                    |
| Address      | 21F, No. 88, Sec. 1, Hsin Tai Wu Rd., Hsichih Dist, New Taipei City 221, Taiwan R.O.C. |

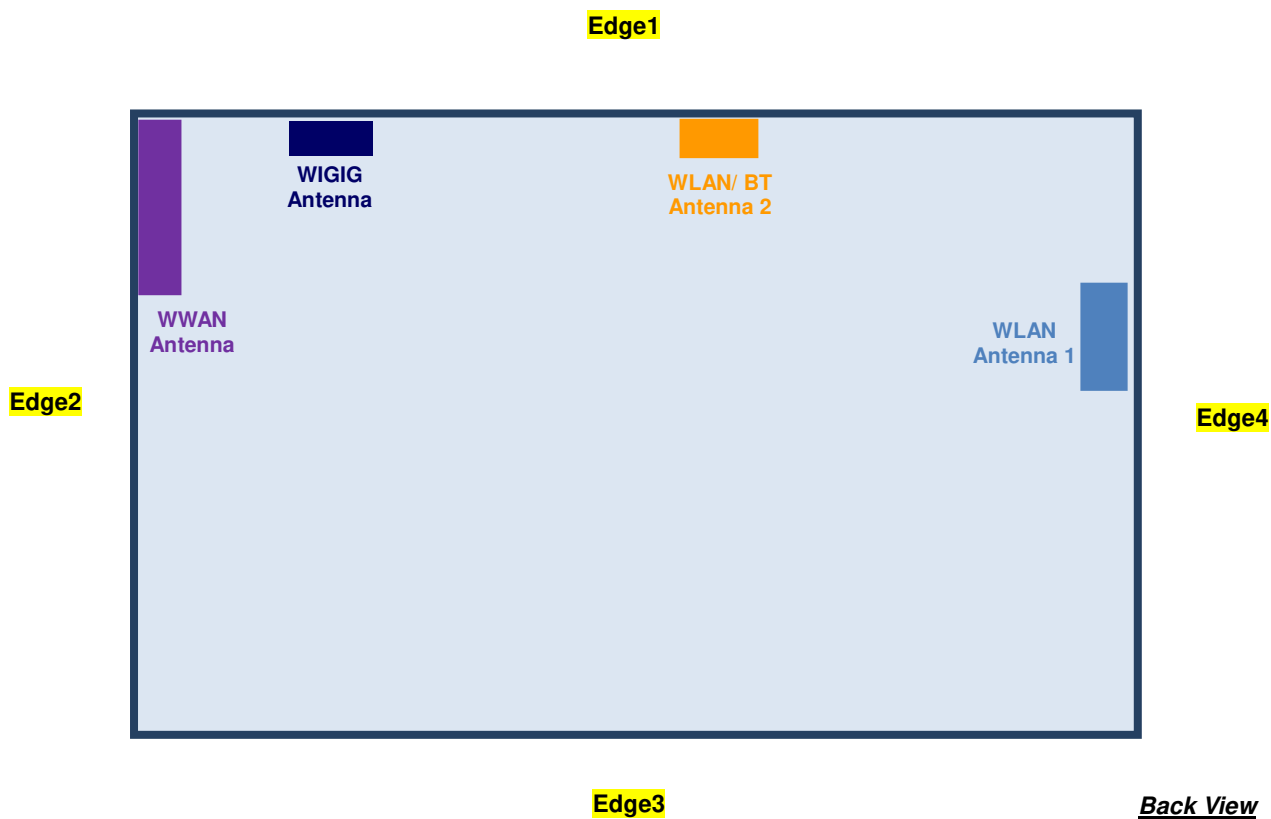
## **2. Equipment Under Test (EUT) Information**

### **2.1 General Information**

| Product Feature & Specification |                                                   |
|---------------------------------|---------------------------------------------------|
| Equipment Name                  | Tablet PC                                         |
| Brand Name                      | Lenovo                                            |
| Model Name                      | TP00082A                                          |
| FCC ID                          | PU5-TP00082ASI                                    |
| Integrated WWAN Module          | Brand Name: Sierra Wireless<br>Model Name: EM7455 |
| Integrated WLAN Module          | Brand Name: Intel<br>Model Name: 8265D2W          |
| Integrated WiGig Module         | Brand Name: Intel<br>Model Name: 11000D2W         |



### 3. Antenna location



#### 4. Simultaneous Transmission Analysis

| NO. | Simultaneous Transmission Configurations  | Support |
|-----|-------------------------------------------|---------|
| 1.  | WWAN + WLAN ANT1 + WLAN ANT2 + WiGig      | Yes     |
| 2.  | WWAN + WLAN ANT1 + Bluetooth ANT2 + WiGig | Yes     |

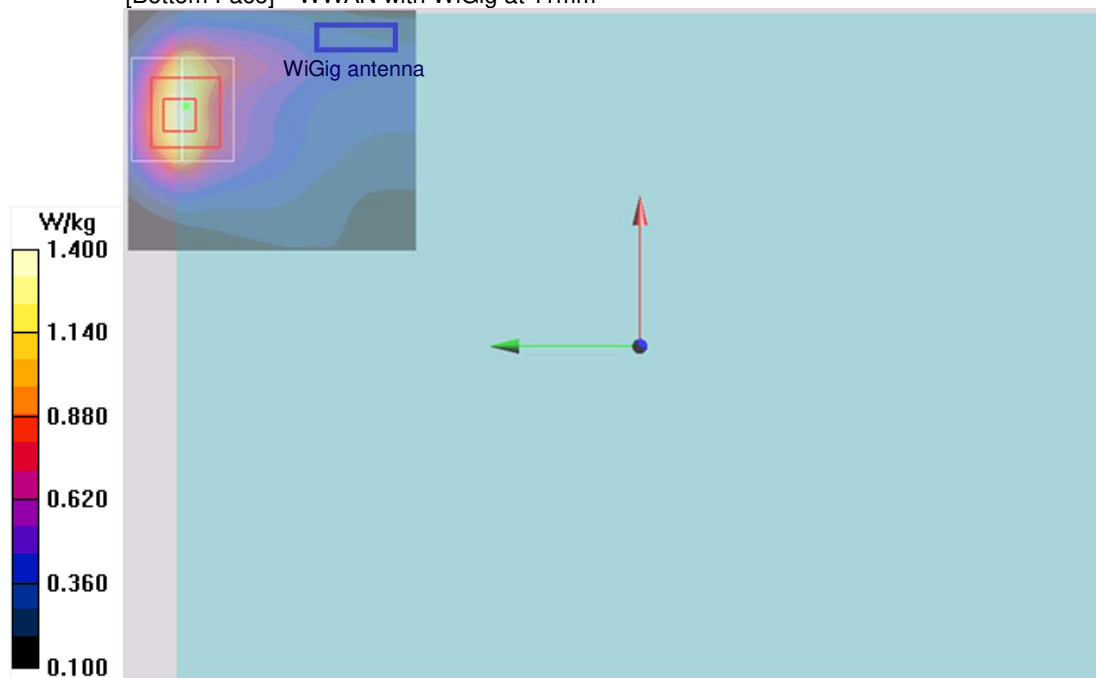
**General Note:**

- (1) The Intel WiGig module is intended to be integrated in to this host, Lenovo TP00082A, and this has been certified via the Class II permissive change under FCC ID: PD911000D2 on 05/27/2016. This report is to address the RF exposure for the simultaneous transmission of WWAN + WLAN + WiGig.
- (2) The WWAN and WLAN SAR results are referenced from the report of FCC ID: PU5-TP00082ASI, certified on 12/19/2016 (Sporton Report No. FA5N2711-08)
- (3) The WiGig RF exposure results are referenced from the report of FCC ID: PD911000D2, certified on 05/27/2016 (Intel Report No. 15121701.TR01)

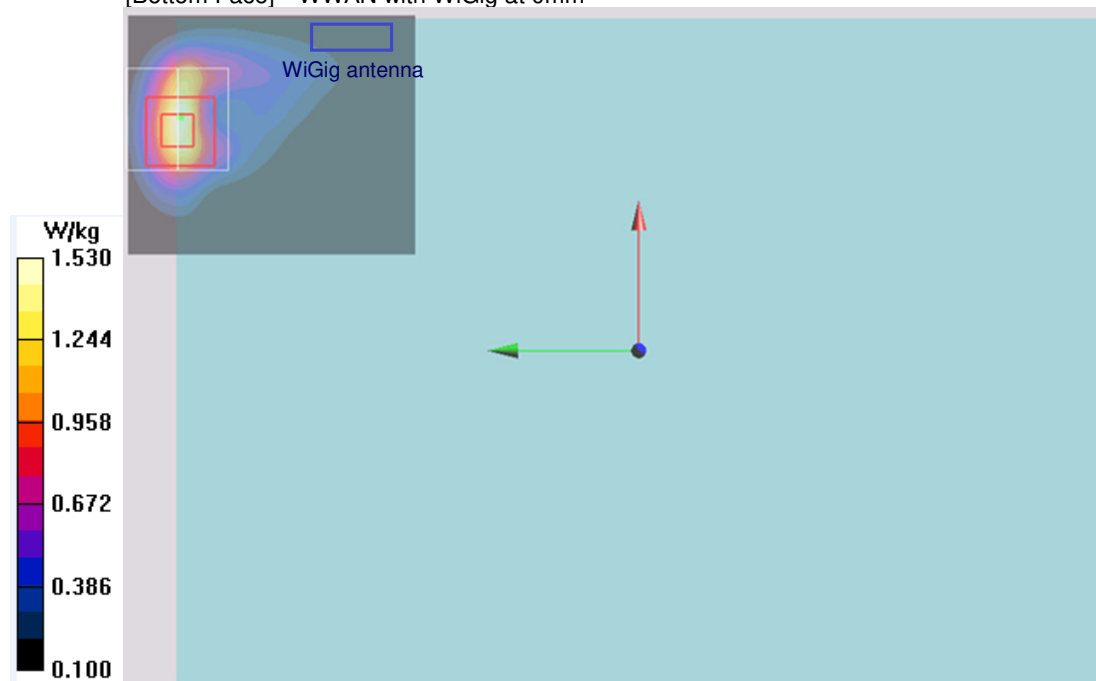
| Exposure Position                                                                                                                                              |                                                                                                           | Edge1                                                            | Edge2                       | Edge3                       | Edge4                       | Bottom Face                    |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|------------------------------------------------------------------|-----------------------------|-----------------------------|-----------------------------|--------------------------------|
| SAR                                                                                                                                                            | Highest WWAN SAR (W/kg)<br>WCDMA Band II/IV/V<br>LTE band 2/4/5/7/12/13/25/26/41                          | 0.624                                                            | 1.289                       | 0.074                       | 0.031                       | 1.297                          |
|                                                                                                                                                                | Highest WLAN Antenna 1. SAR (W/kg)<br>2.4GHz 802.11 b/g/n<br>5GHz 802.11 a/n/ac                           | -                                                                | -                           | -                           | 0.861                       | 1.085                          |
|                                                                                                                                                                | Highest WLAN Antenna 2. SAR (W/kg)<br>2.4GHz 802.11 b/g/n<br>5GHz 802.11 a/n/ac<br>Bluetooth BR/EDR/LE/HS | 0.919                                                            | -                           | -                           | -                           | 1.182                          |
|                                                                                                                                                                | Simultaneous SAR consideration                                                                            | When SAR summation $\geq 1.6\text{W/kg}$ , the SPLSR $\leq 0.04$ |                             |                             |                             |                                |
| Power density                                                                                                                                                  | Highest WiGig power density ( $\text{W}/\text{cm}^2$ )                                                    | -                                                                | -                           | -                           | -                           | 0.6095                         |
| Simultaneous TX analysis:<br>( MPE_eval / MPE_limit ) + ( SAR_eval / SAR_limit )                                                                               |                                                                                                           | Not required <sup>(1)</sup>                                      | Not required <sup>(1)</sup> | Not required <sup>(1)</sup> | Not required <sup>(1)</sup> | <b>compliant<sup>(2)</sup></b> |
| <b>Remark:</b>                                                                                                                                                 |                                                                                                           |                                                                  |                             |                             |                             |                                |
| 1. As referenced in the RF exposure report of FCC ID: PD911000D2, the 60GHz RF energy in these directions is relatively low and it's not required to evaluate. |                                                                                                           |                                                                  |                             |                             |                             |                                |
| 2. In the section 5, it's justified that there is no exposure distribution overlap between WiGig and WWAN or WLAN SAR hotspot distribution.                    |                                                                                                           |                                                                  |                             |                             |                             |                                |

## 5. Exposure Distribution Overlap

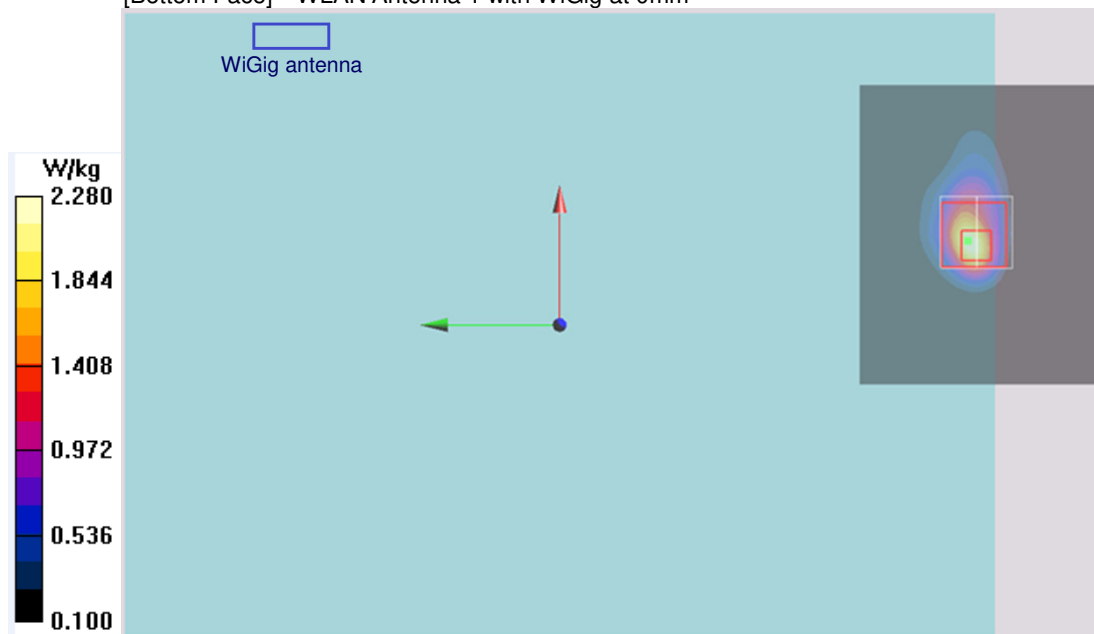
[Bottom Face] WWAN with WiGig at 11mm



[Bottom Face] WWAN with WiGig at 0mm



[Bottom Face] WLAN Antenna 1 with WiGig at 0mm



[Bottom Face] WLAN Antenna 2 with WiGig at 0mm

