# **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

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Approved by: Jones Tsai / Manager

ilac-MRA



Report No.: FA5N2711-17

#### SPORTON INTERNATIONAL INC.

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

TEL: 886-3-327-3456 / FAX: 886-3-328-4978

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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.) TEL: +886-3-327-3456 FAX: +886-3-328-4978		

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Applicant 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			
<b>Equipment Name</b>	Tablet PC		
Brand Name	Lenovo		
Model Name	TP00082A		
FCC ID	PU5-TP00082ASI		
Integrated WWAN Module	Brand Name: Sierra Wireless Model Name: EM7455		
Integrated WLAN Module	Brand Name: Intel Model Name: 8265D2W		
Integrated WiGig Module	Brand Name: Intel Model Name: 11000D2W		

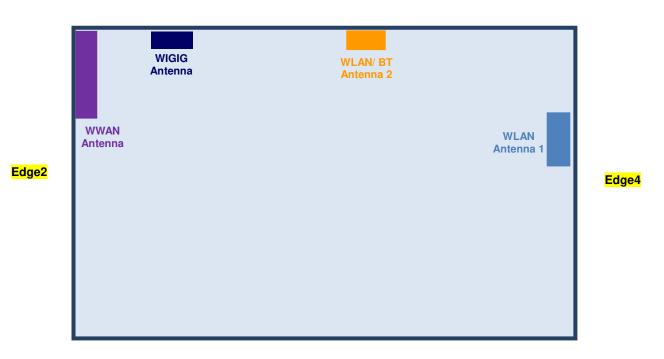
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## 3. Antenna location

#### Edge1



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Edge3 Back View

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### 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
	Highest WWAN SAR (W/kg) WCDMA Band II/IV/V LTE band 2/4/5/7/12/13/25/26/41	0.624	1.289	0.074	0.031	1.297
SAR	Highest WLAN Antenna 1. SAR (W/kg) 2.4GHz 802.11 b/g/n 5GHz 802.11 a/n/ac	-	-	1	0.861	1.085
	Highest WLAN Antenna 2. SAR (W/kg) 2.4GHz 802.11 b/g/n 5GHz 802.11 a/n/ac Bluetooth BR/EDR/LE/HS	0.919	1	1	1	1.182
	Simultaneous SAR consideration	When SAR summation >=1.6W/kg , the SPLSR <=0.04				
Power density	Highest WiGig power density (W/cm²)	-	-	-	-	0.6095
Simultaneous TX analysis: ( 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>	compliant <sup>(2)</sup>

#### Remark:

- 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.
- In the section 5, it's justified that there is no exposure distribution overlap between WiGig and WWAN or WLAN SAR hotspot distribution.

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## 5. Exposure Distribution Overlap

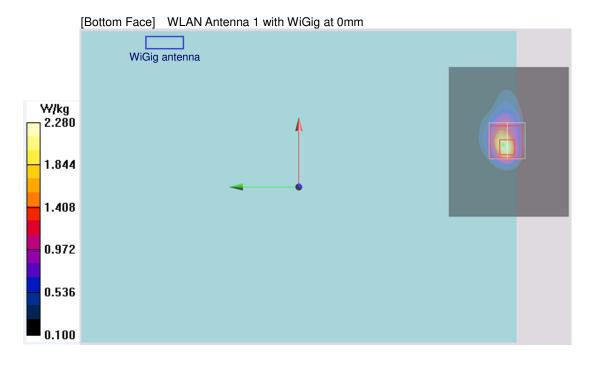




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