Shenzhen Toby Technology Co., Ltd.

Report No.: TB-MPE138369

Page: 1 of 5

RF Exposure Evaluation

FCC ID: 2AA4I -ECCH0052

1. Client Information

Applicant: Seal Electronics Asia Limited

Address : Room E, 6th Floor, Eastern Commercial Centre, 395-399 Hennessy

Road, Wan Chai, Hong Kong

Manufacturer : ATION ELECTRIC CO. LTD.

Address : No.82, Huize Road, Shuikou Town, Huicheng District, Huizhou, China

2. General Description of EUT

| EUT Name | : | Tablet PC | | | | |
|------------------------|---|--|------------------------------------|--|--|--|
| Models No. | : | E-CCH-0052, BC-290 | | | | |
| Model | : | The different models are identical in schematic, structure and | | | | |
| Difference | | critical component, the only different is the appearance. | | | | |
| | | Operation Frequency: 802.11b/g/n(HT20): 2412MHz~2462MHz | | | | |
| | | Number of Channel: | 802.11b/g/n(HT20):11 channels | | | |
| | | Out Power: | 802.11b: 9.00 dBm | | | |
| | | | 802.11g: 8.59 dBm | | | |
| Product Description | | | 802.11n (HT20): 9.36 dBm | | | |
| | | Antenna Gain: | 0 dBi Chip Antenna | | | |
| | | Modulation Type: | 802.11b: DSSS (CCK, QPSK, BPSK) | | | |
| | | | 802.11g: OFDM | | | |
| | | | 802.11n: OFDM | | | |
| | | Bit Rate of Transmitter: | 802.11b:11/5.5/2/1 Mbps | | | |
| | | | 802.11g:54/48/36/24/18/12/9/6 Mbps | | | |
| | | | 802.11n:up to 150Mbps | | | |
| Power Supply | : | DC Power from AC/DC Adapter. | | | | |
| | | DC power from Hostsystem. | | | | |
| | | DC Voltage supplied from Li-Polymer battery. | | | | |
| Power Rating | : | AC/DC Adapter(SJ-0520-U): Input: AC 100~240V 50/60 Hz 0.5A | | | | |
| | | Output: DC 5V 2A | | | | |
| | | USB DC 5.0V power from Hostsystem. | | | | |
| | | DC 3.7V 2300mAh from Li-Polymer battery | | | | |

TB-RF-075-1. 0



Page: 2 of 5

| Connecting I/O | : | Please refer to the User's Manual |
|----------------|---|-----------------------------------|
| Port(S) | | |

Note

For a more detailed features description, please refer to the RF Test Report.



Page: 3 of 5

MPE Calculations

1. FCC: According to KDB 447498 D01 Mobile and Portable Devices RF Exposure Procedures and Equipment Authorization Policies V05.

- (1) Clause 4.3: General SAR test reduction and exclusion guidance Sub clause 4.31: Standalone SAR test exclusion considerations
 - 1)The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6GHz at test separation distance≤50 mm are determined by:

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation, mm)]*[$\sqrt{f_{(GHz)}}$] \leq 3.0 for 1-g SAR [(max. power of channel, including tune-up tolerance, mW)/(min. test separation, mm)]*[$\sqrt{f_{(GHz)}}$] \leq 7.5.0 for 10-g SAR

Calculation:

The maximum power is 9.36 dBm(8.629mW) @2.462GHz

Separation Distance: 5mm

For 1-g SAR Result: 2.71≤3.0

Pass

So standalone SAR measurements are not required.



Page: 4 of 5

(2) Appendix A: SAR Test Thresholds for 100MHz~6GHz and \leq 50mm.

SAR can be exempted if the output power is less than the SAR exclusion Threshold: For F=2450, and Distance=5mm, the output power is less than 10mW (10 dBm).

Please see the follow table:

| | | | | | | 1 |
|------|-----|-----|-----|-----|-----|-----------------------|
| MHz | 5 | 10 | 15 | 20 | 25 | mm |
| 150 | 39 | 77 | 116 | 155 | 194 | |
| 300 | 27 | 55 | 82 | 110 | 137 | |
| 450 | 22 | 45 | 67 | 89 | 112 | |
| 835 | 16 | 33 | 49 | 66 | 82 | |
| 900 | 16 | 32 | 47 | 63 | 79 | C.4.D. T. |
| 1500 | 12 | 24 | 37 | 49 | 61 | SAR Test Exclusion |
| 1900 | 11 | 22 | 33 | 44 | 54 | Threshold (mW) |
| 2450 | 10 | 19 | 29 | 38 | 48 | The shorts (m) |
| 3600 | 8 | 16 | 24 | 32 | 40 | |
| 5200 | 7 | 13 | 20 | 26 | 33 | |
| 5400 | 6 | 13 | 19 | 26 | 32 | |
| 5800 | 6 | 12 | 19 | 25 | 31 | |
| | | | | | | |
| MHz | 30 | 35 | 40 | 45 | 50 | mm |
| 150 | 232 | 271 | 310 | 349 | 387 | |
| 300 | 164 | 192 | 219 | 246 | 274 | |
| 450 | 134 | 157 | 179 | 201 | 224 | |
| 835 | 98 | 115 | 131 | 148 | 164 | |
| 900 | 95 | 111 | 126 | 142 | 158 | |
| 1500 | 73 | 86 | 98 | 110 | 122 | SAR Test Exclusion |
| 1900 | 65 | 76 | 87 | 98 | 109 | Threshold (mW) |
| 2450 | 57 | 67 | 77 | 86 | 96 | Threshold (III W) |
| 3600 | 47 | 55 | 63 | 71 | 79 | |
| 5200 | 39 | 46 | 53 | 59 | 66 | |
| 5400 | 39 | 45 | 52 | 58 | 65 | |
| 5800 | 37 | 44 | 50 | 56 | 62 | |



Page: 5 of 5

2. Calculation:

EIRP= P+G

Where P=Conducted Output Power (dBm) G=Power Gain of the Antenna (dBi)

So

| 802.11b/g/n(HT20) | | | | | | | |
|-------------------|--------------------------|-----------------------|---------------|--------------|--|--|--|
| Test Mode | Conducted Power (dBm) | Antenna Gain (dBi) | EIRP (dBm) | EIRP (mW) | | | |
| 802.11b | 9.00 | 0 | 9.00 | 7.9432 | | | |
| 802.11g | 8.59 | 0 | 8.59 | 7.2277 | | | |
| 802.11n(HT20) | 9.36 | 0 | 9.36 | 8.6298 | | | |

3. Conclusion:

No SAR Evaluation required since Transmitter output power is bellow FCC threshold and IC standards.