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Report No.: CQASZ160501323E-04
Report Version: V01

RF Exposure Report

Applicant: Guangzhou Chenle Information Technology Co., LTD

Address of Applicant: 1005A room , No. 89, Yanling Road, Tianhe District, Guangzhou, China

Manufacturer: Guangzhou Chenle Information Technology Co., LTD

Address of Manufacturer: 1005A room , No. 89, Yanling Road, Tianhe District, Guangzhou, China

Equipment Under Test (EUT):

Product: Tablet PC

Model No.: V701S, V80, V96, V80 SE, V820W DUAL OS, OBOOK10 SE, V891W CH, V80Plus, OBOOK10 DualOS, OBOOK10 Pro, OBOOK10 plus, OBOOK11 Plus, OBOOK11 Pro, OBOOK12, V801S, V820W CH DUALOS, V919AIR CH DUALOS, V975S, OBOOK11 DUALOS, OBOOK11.

Test Model No.: OBOOK10 DualOS

Brand Name: ONDA

FCC ID: 2AIXEOBOOK10

Standards: 47 CFR Part 1.1307
47 CFR Part 2.1093
KDB447498D01 General RF Exposure Guidance v06

Date of Test: 2016-06-02 to 2016-06-07

Date of Issue: 2016-06-07

Test Result : **PASS***

Reviewed By:

(Aaron Ma)

Approved By:

(Owen Zhou)



* In the configuration tested, the EUT complied with the standards specified above.

2 Version

Revision History Of Report

Report No.	Version	Description	Issue Date
CQASZ160501323E-04	Rev.01	Initial report	2016-06-07

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4 General Information

4.1 Client Information

Applicant:	Guangzhou Chenle Information Technology Co., LTD
Address of Applicant:	1005A room , No. 89, Yanling Road, Tianhe District, Guangzhou, China
Manufacturer:	Guangzhou Chenle Information Technology Co., LTD
Address of Manufacturer:	1005A room , No. 89, Yanling Road, Tianhe District, Guangzhou, China

4.2 General Description of EUT

Product Name:	Tablet PC	
Model No.:	V701S, V80, V96, V80 SE, V820W DUAL OS, OBOOK10 SE, V891W CH, V80Plus, OBOOK10 DualOS, OBOOK10 Pro, OBOOK10 plus, OBOOK11 Plus, OBOOK11 Pro, OBOOK12, V801S, V820W CH DUALOS, V919AIR CH DUALOS, V975S, OBOOK11 DUALOS, OBOOK11.	
Test Model No.	OBOOK10 DualOS	
Trade Mark:	ONDA	
Hardware Version:	V02	
Software Version:	V1.0	
Operation Frequency:	BT: 2402MHz~2480MHz IEEE 802.11b/g/n(HT20): 2412MHz to 2462MHz	
Bluetooth Version:	V3.0	
Modulation Type:	BT: GFSK, $\pi/4$ DQPSK, 8DPSK IEEE for 802.11b: DSSS(CCK,DQPSK,DBPSK) IEEE for 802.11g : OFDM(64QAM, 16QAM, QPSK, BPSK) IEEE for 802.11n(HT20) : OFDM (64QAM, 16QAM, QPSK,BPSK)	
Number of Channel:	BT: 79 Channels IEEE 802.11b/g, IEEE 802.11n HT20: 11 Channels	
Sample Type:	Portable production	
Test Software of EUT:	RFTTest (manufacturer declare)	
Antenna Type:	Integral	
Antenna Gain:	1.2dBi	
Power Supply:	Adapter:	Mode : TPA-915200CU Input: AC100-240V 50/60Hz 0.4A Output: DC5.0V 2.0A
	EUT Power Supply:	DC5.0V
	Rechargeable li-ion battery	DC3.8V, 6000 mAh

Note:

1. Model No.: V701S, V80, V96, V80 SE, V820W DUAL OS, OBOOK10 SE, V891W CH, V80Plus, OBOOK10 DualOS, OBOOK10 Pro, OBOOK10 plus, OBOOK11 Plus, OBOOK11 Pro, OBOOK12, V801S, V820W CH DUALOS, V919AIR CH DUALOS, V975S, OBOOK11 DUALOS, OBOOK11.

Only the model OBOOK10 DualOS was tested, since the electrical circuit design, layout, components used and internal wiring were identical for the above models, with difference being color of appearance, pack and model name.

2. The fully-charged li-ion battery is used for testing.

4.3 Test Location

All tests were performed at:

Shenzhen CTL Testing Technology Co., Ltd., Shenzhen EMC Laboratory,
1/F.-A, Baisha Technology Park, No.3011, Shahexi Road, Nanshan District, Shenzhen, Guangdong,
China

4.4 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

FCC – Registration No.: 970318

Shenzhen CTL Testing Technology Co., Ltd. has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration 970318

4.5 Deviation from Standards

None.

4.6 Abnormalities from Standard Conditions

None.

4.7 Other Information Requested by the Customer

None.

5 SAR Evaluation

5.1 RF Exposure Compliance Requirement

5.1.1 Standard Requirement

According to KDB447498D01 General RF Exposure Guidance v06

4.3.1. Standalone SAR test exclusion considerations

Unless specifically required by the published RF exposure KDB procedures, standalone 1-g head or body and 10-g extremity SAR evaluation for general population exposure conditions, by measurement or numerical simulation, is not required when the corresponding SAR Exclusion Threshold condition, listed below, is satisfied.

5.1.2 Limits

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances ≤ 50 mm are determined by:

$$\left[\frac{\text{max. power of channel, including tune-up tolerance, mW}}{(\text{min. test separation distance, mm})} \right] \cdot \sqrt{f(\text{GHz})} \leq 3.0 \text{ for 1-g SAR and } \leq 7.5 \text{ for 10-g extremity SAR, where}$$

$f(\text{GHz})$ is the RF channel transmit frequency in GHz

Power and distance are rounded to the nearest mW and mm before calculation¹⁷

The result is rounded to one decimal place for comparison

The test exclusions are applicable only when the minimum test separation distance is ≤ 50 mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine SAR test exclusion

5.1.3 EUT RF Exposure

For BT:

The Max Conducted Peak Output Power is 1.79dBm in middle channel(2.441GHz);

The best case gain of the antenna is1.2dBi.

$$\text{EIRP} = 1.79\text{dBm} + 1.2\text{dBi} = 2.99\text{dBm}$$

2.99dBm logarithmic terms convert to numeric result is nearly 1.991mW

According to the formula. calculate the EIRP test result:

$$[(\text{max. power of channel, including tune-up tolerance, mW})/(\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}]$$

$$\text{General RF Exposure} = (1.991\text{mW} / 5 \text{ mm}) \times \sqrt{2.441\text{GHz}} = 0.6221 \text{ ①}$$

SAR requirement:

$$S = 3.0 \text{ ② ;}$$

$$\text{①} < \text{②}.$$

So the SAR report is not required.

Remark: The Max Conducted Peak Output Power data refer to report CQASZ160501323E-02

For WIFI:

The Max. technical average output power is 7.5dBm in highest channel(2.462GHz);

The best case gain of the antenna is1.2dBi.

$$\text{EIRP} = 7.5\text{dBm} + 1.2\text{dBi} = 8.7\text{dBm}$$

8.7dBm logarithmic terms convert to numeric result is nearly 7.413mW

According to the formula. calculate the EIRP test result:

$$[(\text{max. power of channel, including tune-up tolerance, mW})/(\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}]$$

$$\text{General RF Exposure} = (7.413\text{mW} / 5 \text{ mm}) \times \sqrt{2.462\text{GHz}} = 2.3263 \text{ ①}$$

SAR requirement:

$$S = 3.0 \text{ ② ;}$$

$$\text{①} < \text{②}.$$

So the SAR report is not required.

Remark: The Max. technical output power data refer to tune-up procedure.