

RF EXPOSURE REPORT

REPORT NO.: SA130814C33

MODEL NO.: NeverLost® 6 Tablet

FCC ID: 2AA4L-HTZNLTABLET

RECEIVED: Aug. 14, 2013

ISSUED: Sep. 11, 2013

APPLICANT: MiTAC International Corp.

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ISSUED BY: Bureau Veritas Consumer Products Services
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RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
SA130814C33	Original release	Sep. 11, 2013



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1. CERTIFICATION

PRODUCT: Automotive Navigation Device
MODEL NO.: NeverLost® 6 Tablet
BRAND: Hertz
APPLICANT: MiTAC International Corp.
TEST SAMPLE: Production Unit
STANDARDS: **FCC Part 2 (Section 2.1091)**
FCC OET Bulletin 65, Supplement C (01-01)
IEEE C95.1

The above equipment (model: NeverLost® 6 Tablet) has been tested by **Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch**, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's EMC characteristics under the conditions specified in this report.

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Vera Huang / Specialist
APPROVED BY : Roy Wu , **DATE :** Sep. 11, 2013
Roy Wu / Manager



2. RF EXPOSURE

2.1 LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

FREQUENCY RANGE (MHz)	ELECTRIC FIELD STRENGTH (V/m)	MAGNETIC FIELD STRENGTH (A/m)	POWER DENSITY (mW/cm ²)	AVERAGE TIME (minutes)
LIMITS FOR GENERAL POPULATION / UNCONTROLLED EXPOSURE				
300-1500	...	...	F/1500	30
1500-100,000	...	...	1.0	30

F = Frequency in MHz

2.2 MPE CALCULATION FORMULA

$$P_d = (P_{out} * G) / (4 * \pi * r^2)$$

where

P_d = power density in mW/cm²

P_{out} = output power to antenna in mW

G = gain of antenna in linear scale

π = 3.1416

R = distance between observation point and center of the radiator in cm

2.3 CLASSIFICATION

The antenna of this product, under normal use condition, is at least 20cm away from the body of the user. So, this device is classified as **Mobile Device**.

2.4 CALCULATION RESULT OF MAXIMUM CONDUCTED POWER

Frequency Band (MHz)	Operating Mode	Maximum Conducted (dBm)		Antenna Gain (dBi)	E.I.R.P. (mW)	Power Density (mW/cm ²)	Limit (mW/cm ²)
		Burst Avg. Power	Time Avg. Power				
GSM850	GPRS10	29.41	23.41	1	276.06	0.055	0.55
GSM1900	GPRS8	29.35	20.35	2.5	192.75	0.038	1.00

Frequency band (MHz)	Conducted Avg. power (dBm)	Antenna Gain (dBi)	E.I.R.P. (mW)	Power Density (mW/cm ²)	Limit (mW/cm ²)
WCDMA Band II	22.93	2.5	349.14	0.069	1.00
WCDMA Band V	23.23	1	264.85	0.053	0.55
2402~2480	2.37	1.5	2.44	0.0005	1.00
2412~2462	16.22	4.51	118.30	0.024	1.00
5180~5240	14.89	6.31	131.83	0.026	1.00
5260~5320	17.71	6.21	246.60	0.049	1.00
5500~5700	15.11	6.91	159.22	0.032	1.00
5745~5825	17.83	6.11	247.74	0.049	1.00

Note:

For 2412~2462: Directional gain = 1.5dBi + 10log(2) = 4.51dBi

For 5180~5240: Directional gain = 3.3dBi + 10log(2) = 6.31dBi

For 5260~5320: Directional gain = 3.2dBi + 10log(2) = 6.21dBi

For 5500~5700: Directional gain = 3.9dBi + 10log(2) = 6.91dBi

For 5745~5825: Directional gain = 3.1dBi + 10log(2) = 6.11dBi

2.5 Evaluation of Simultaneous transmission

There is one WWAN module and one WLAN/BT module installed in EUT. According to KDB 616217 D03 4) a), the formula is as following and the calculation is listed in below table.

$(\sum \text{ of the highest MPE / MPE limit}) < 1$

Co-transmission Configuration	Highest WLAN	MPE Limitation	Highest WWAN	MPE Limitation	Highest BT MPE	MPE Limitation	Sum of Ratio
WLAN + GSM 850	0.049	1.00	0.055	0.55	-	-	0.149
WLAN + GSM1900	0.049	1.00	0.038	1.00	-	-	0.087
WLAN + WCDMA Band II	0.049	1.00	0.069	1.00	-	-	0.118
WLAN + WCDMA Band V	0.049	1.00	0.053	0.55	-	-	0.145
WLAN + BT	0.049	1.00	-	-	0.0005	1.00	0.0495
BT + GSM 850	-	-	0.055	0.55	0.0005	1.00	0.0555
BT + GSM1900	-	-	0.038	1.00	0.0005	1.00	0.0385
BT + WCDMA Band II	-	-	0.069	1.00	0.0005	1.00	0.0695
BT + WCDMA Band V	-	-	0.053	0.55	0.0005	1.00	0.0535