RF EXPOSURE REPORT



Report No.: 17020575-FCC-H1 Supersede Report No.: N/A

Applicant	Nanjing Hanlong Technology Co., Ltd.			
Product Name	IP PHONE			
Model No.	UC926E	UC926E		
Serial Model	UC924E	UC924E		
Test Standard	FCC 2.1091			
Test Date	June 05 to June 27, 2017			
Issue Date	June 27, 2017			
Test Result	Pass Fail			
Equipment complied with the specification				
Equipment did not comply with the specification				
Trety. lu Deon Dai				
Trety Lu Test Engineer			n Dai Reviewer	
This test report may be reproduced in full only Test result presented in this test report is applicable to the tested sample only				

Issued by: SIEMIC (Nanjing-China) Laboratories

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Laboratories Introduction

SIEMIC, headquartered in the heart of Silicon Valley, with superior facilities in US and Asia, is one of the leading independent testing and certification facilities providing customers with one-stop shop services for Compliance Testing and Global Certifications.



In addition to testing and certification, SIEMIC provides initial design reviews and compliance management throughout a project. Our extensive experience with China, Asia Pacific, North America, European, and International compliance requirements, assures the fastest, most cost effective way to attain regulatory compliance for the global markets.

Accreditations for Conformity Assessment

Country/Region	Scope
USA	EMC, RF/Wireless, SAR, Telecom
Canada	EMC, RF/Wireless, SAR, Telecom
Taiwan	EMC, RF, Telecom, SAR, Safety
Hong Kong	RF/Wireless, SAR, Telecom
Australia	EMC, RF, Telecom, SAR, Safety
Korea	EMI, EMS, RF, SAR, Telecom, Safety
Japan	EMI, RF/Wireless, SAR, Telecom
Singapore	EMC, RF, SAR, Telecom
Europe	EMC, RF, SAR, Telecom, Safety



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1 Report Revision History

Report No.	Report Version	Description	Issue Date
17020575-FCC-H1	NONE	Original	June 27, 2017

2 <u>Customer information</u>

Applicant Name	Nanjing Hanlong Technology Co., Ltd.
Applicant Add	5th Floor, 1st Building, Huashen Tech Park, 10 Huashen Temple, Yuhuatai Dis, Nanjing China
Manufacturer	Nanjing Hanlong Technology Co., Ltd.
Manufacturer Add	5th Floor, 1st Building, Huashen Tech Park, 10 Huashen Temple, Yuhuatai Dis, Nanjing China

3 Test site information

Lab performing tests	SIEMIC (Nanjing-China) Laboratories	
Lab Address	2-1 Longcang Avenue Yuhua Economic and Technology Development Park, Nanjing, China	
FCC Test Site No.	986914	
IC Test Site No.	4842B-1	
Test Software	EZ_EMC	



Description of EUT:

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4 Equipment under Test (EUT) Information

IP PHONE

Main Model:	UC926E
Serial Model:	UC924E
Date EUT received:	May 18, 2017
Test Date(s):	June 05 to June 27, 2017
Output power	BT:10.455 dBm BLE:2.704dBm WIFI:802.11b: 19.24 dBm 802.11n(40M): 15.07 dBm
Antenna Gain:	Bluetooth/WIFI/BLE: 2.8 dBi
Type of Modulation:	WIFI:802.11b/g/n(20M/40M): DSSS, OFDM Bluetooth: GFSK&π/4-DQPSK&8DPSK BLE:GFSK
RF Operating Frequency (ies):	Bluetooth&BLE: 2402-2480 MHz WIFI:802.11b/g/n(20M): 2412-2472 MHz 802.11n(40M):2422-2462 MHz
Number of Channels:	Bluetooth: 79CH BLE: 40CH WIFI :802.11b/g/n(20M): 13CH WIFI :802.11n(40M): 9CH
Port:	Power Port、Ext Port、Internet Port、PC Port、Earphone Port、Telephone Port
Input Power:	Adapter: Model:NBS05B050120VU Input Power:100-240V,50/60Hz,0.2A Output:5V,1.2A
Trade Name :	Htek
FCC ID:	2ACUGUC926ESERIAL



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FCC §2.1091 - MaximuM Permissible exposure (MPE)

Applicable Standard

According to §1.1307(b)(1), systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess of the Commission's guidelines.

According to §1.1310 and §2.1091 RF exposure is calculated.

Limits for General Population/Uncontrolled Exposure

Limits for General Population/Uncontrolled Exposure						
Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm²)	Averaging Time (minutes)		
0.3-1.34	614	1.63	*(100)	30		
1.34-30	824/f	2.19/f	*(180/f ²)	30		
30-300	27.5	0.073	0.2	30		
300-1500	1	1	f/1500	30		
1500-100,000	1	1	1.0	30		

f = frequency in MHz

Test Data

Predication of MPE limit at a given distance

$$S = \frac{PG}{4\pi R^2}$$

Where: S = power density (in appropriate units, e.g. mW/cm2)

P = power input to the antenna (in appropriate units, e.g., mW).

G = power gain of the antenna in the direction of interest relative to an isotropic radiator, the power gain factor, is normally numeric gain.

R = distance to the center of radiation of the antenna (appropriate units, e.g., cm)

^{* =} Plane-wave equivalent power density



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Туре	Modulation	СН	Freq (MHz)	Conducted Power (dBm)	Limit (mW)	Result
		Low	2402	8.150	125	Pass
	GFSK	Mid	2441	8.344	125	Pass
		High	2480	8.286	125	Pass
Output	π/4 DQPSK	Low	2402	9.934	125	Pass
Output power		Mid	2441	9.982	125	Pass
		High	2480	9.975	125	Pass
	8-DPSK	Low	2402	10.062	125	Pass
		Mid	2441	10.067	125	Pass
		High	2480	10.455	125	Pass

Туре	Test mode	СН	Freq (MHz)	Conducted Power (dBm)	Limit (dBm)	Result
_		1	2412	19.14	30	Pass
		6	2437	19.20	30	Pass
	802.11b	11	2462	19.24	30	Pass
		12	2467	19.06	30	Pass
		13	2472	19.08	30	Pass
		1	2412	17.81	30	Pass
		6	2437	18.22	30	Pass
	802.11g	11	2462	18.39	30	Pass
		12	2467	18.36	30	Pass
Output		13	2472	17.98	30	Pass
power	802.11n(20M)	1	2412	18.09	30	Pass
		6	2437	18.25	30	Pass
		11	2462	18.39	30	Pass
		12	2467	18.23	30	Pass
		13	2472	18.09	30	Pass
	802.11n(40M)	3	2422	14.69	30	Pass
		6	2437	15.03	30	Pass
		9	2452	15.07	30	Pass
		10	2457	15.02	30	Pass
		11	2462	14.95	30	Pass

Туре	Test mode	СН	Freq (MHz)	Conducted Power (dBm)	Limit (dBm)	Result
Output power	BLE	Low	2402	2.704	30	Pass
		Mid	2440	2.554	30	Pass
		High	2480	2.491	30	Pass



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Test mode	Freq (MHz)	Max Conducted Power (dBm)	MPE(mW/cm²)	Limit (mW/cm²)	Result
BT	2480	10.455	0.0042	1	Pass
BLE	2402	2.704	0.0007	1	Pass
802.11b	2462	19.24	0.0320	1	Pass
802.11g	2462	18.39	0.0262	1	Pass
802.11n(20M)	2462	18.39	0.0262	1	Pass
802.11n(40M)	2452	15.07	0.0122	1	Pass

Simultaneous transmission MPE result:

BT+802.11b

0.0042+0.0320=0.0362 mW/cm²

0.0362 mW/cm² < 1 mW/cm²

BLE+802.11b

0.0007+0.0320=0.0327 mW/cm²

Result:Pass

Antenna Gain (typical): 2.8dBi, 2.0(numeric)

Prediction distance: >=20cm

The power density level worst case at 20 cm is below the uncontrolled exposure limit.