中认信通
CHINA CERTIFICATION ICT CO., LTD (DONGGUAN)

ACCREDITED
TESTING LABORATORY
CERTIFICATE # 6356.01

RF EXPOSURE

EVALUATION REPORT

Applicant: **VTech Telecommunications Ltd**

Address: 23/F Tai Ping Ind Center Block 1 57 Ting Kok Rd Tai Po NT, Hong Kong

FCC ID: **EW780-S112-00**

Product Name: **SIP Phone**

Standard(s): **47 CFR §1.1310**

The above device has been tested and found compliant with the requirement of the relative standards by China Certification ICT Co., Ltd (Dongguan)

Report Number: **CR230738438-00J**

Date Of Issue: **2024/3/11**

Reviewed By: **Calvin Chen**

Title: RF Engineer

Approved By: **Sun Zhong**

Title: Manager

Test Laboratory: **China Certification ICT Co., Ltd (Dongguan)**
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Test Facility

The Test site used by China Certification ICT Co., Ltd (Dongguan) to collect test data is located on the No. 113, Pingkang Road, Dalang Town, Dongguan, Guangdong, China.

The lab has been recognized as the FCC accredited lab under the KDB 974614 D01 and is listed in the FCC Public Access Link (PAL) database, FCC Registration No. : 442868, the FCC Designation No. : CN1314.

Declarations

China Certification ICT Co., Ltd (Dongguan) is not responsible for the authenticity of any test data provided by the applicant. Data included from the applicant that may affect test results are marked with a triangle symbol "▲". Customer model name, addresses, names, trademarks etc. are not considered data.

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested.

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DOCUMENT REVISION HISTORY

Revision Number	Report Number	Description of Revision	Date of Revision
1.0	CR230738438-00J	Original Report	2024/3/11

1. GENERAL INFORMATION

1.1 Product Description for Equipment under Test (EUT)

EUT Name:	SIP Phone
EUT Model:	D892M
Multiple Model(s)	D892
Trade Name:	SNOM
Rated Input Voltage:	DC 5V from adapter or DC 48V From POE
Serial Number:	27SO-2, 27SO-1
EUT Received Date:	2023/7/5
EUT Received Status:	Good
Note: The Multiple models are electrically identical with the test model. Please refer to the declaration letter for more detail, which was provided by manufacturer.	

2. RF EXPOSURE EVALUATION

2.1 Applicable Standard

According to subpart §1.1310, 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.

Limits for Maximum Permissible Exposure (MPE) (§1.1310, §2.1091)

(B) Limits for General Population/Uncontrolled Exposure				
Frequency Range (MHz)	**Electric Field Strength (V/m)**	**Magnetic Field Strength (A/m)**	**Power Density (mW/cm^2)**	**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	/	/	f/1500	30
1500–100,000	/	/	1.0	30

f = frequency in MHz; * = Plane-wave equivalent power density;

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

Calculation formula:

Prediction of power density at the distance of the applicable MPE limit
$S = PG/4\pi R^2$ = power density (in appropriate units, e.g. mW/cm^2);
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);

For simultaneously transmit system, the calculated power density should comply with:

$$\sum_i \frac{S_i}{S_{Limit,i}} \leq 1$$

2.2 Measurement Result

Mode	Frequency (MHz)	Antenna Gain		Conducted output power including Tune-up Tolerance		Evaluation Distance	Power Density	MPE Limit
		(dBi)	(numeric)	(dBm)	(mW)	(cm)	(mW/cm2)	(mW/cm^2)
BDR/EDR	2402-2480	0.00	1	7	5.01	20	0.0010	1
BLE	2402-2480	0.00	1	4	2.51	20	0.0005	1
2.4G Wi-Fi	2412-2462	0.00	1	24	251.19	20	0.0500	1
5.2G Wi-Fi	5180-5240	2.00	1.58	16	39.81	20	0.0125	1
5.3G Wi-Fi	5260-5320	2.00	1.58	16	39.81	20	0.0125	1
5.6G Wi-Fi	5500-5700	2.00	1.58	18	63.10	20	0.0198	1
5.8G Wi-Fi	5745-5825	2.00	1.58	18	63.10	20	0.0198	1
DECT	1921.536-1928.448	0.00	1	20	100.00	20	0.0199	1
NFC	13.56	/	/	-29.55	0.0011	20	<<0.0001	0.98

Note:
1. The Above Parameters were provided by the manufacturer.
2. NFC field strength is 65.65BμV/m @ 3m = -29.55 dBm(0.0011mW) EIRP.

The Bluetooth, 2.4G or 5G Wi-Fi, NFC, Wireless Charging and DECT can transmit simultaneously:

$$\sum_i \frac{S_i}{S_{Limit,i}}$$

$=S_{Bluetooth}/S_{limit\text{-}Bluetooth}+ S_{Wi\text{-}Fi}/S_{limit\text{-}Wi\text{-}Fi}+ S_{NFC}/S_{limit\text{-}NFC} + S_{Wireless\ Charging} /S_{limit\text{-}Wireless\ Charging} + S_{DECT}/S_{limit\text{-}DECT}$

$=0.0010/1+0.0500/1++0.0001/0.98+0.1112/1.63+0.0199/1$

$=0.139$

< 1.0

The power of the NFC and WPT is extreme low, which not affect the simultaneous exposure evaluation result.

Result: The device meets FCC MPE at **20 cm** distance

3. EUT PHOTOGRAPHS

Please refer to the attachment CR230738438-FP-EXP EUT EXTERNAL PHOTOGRAPHS and CR230738438-FP-INP EUT INTERNAL PHOTOGRAPHS

===== END OF REPORT =====