

TEST REPORT

Application No.: SZCR2504001740WM
Applicant: START USA, INC.
Address of Applicant: 5600 Tennyson Parkway, Suite 390, Plano, TX 75024, USA
Manufacturer: START USA, INC.
Address of Manufacturer: 5600 Tennyson Parkway, Suite 390, Plano, TX 75024, USA
EUT Description: 4G Wireless Home Phone Base
Model No.: SD3200
Trade Mark: IRIS, START
FCC ID: 2AWF6-SD3200
Standards: FCC 47 CFR Part 2.1091
 FCC KDB 447498 D01 v06
Date of Receipt: 2025-04-30
Date of Issue: 2025-07-21

Test Result:	PASS*
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* In the configuration tested, the EUT complied with the standards specified above.

Keny Xu

Keny Xu

EMC Laboratory Manager



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SGS-CSTC Standards Technical Services Co., Ltd.
 Shenzhen Branch Testing & EMC Laboratory

No.1 Workshop, M-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057
 中国·广东·深圳市南山区科技园中区M-10栋1号厂房 邮编: 518057

t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

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SZEMC-TRF-01 Rev. A/1

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Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2025-07-21		Original

Authorized for issue by:				
		Darren Yuan		
		Darren Yuan/Project Engineer		
		Eric Fu		
		Eric Fu/Reviewer		



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Shenzhen Branch Testing Center Laboratory

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No.1 Workshop, M-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
中国·广东·深圳市南山区科技园中区M-10栋1号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

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3 General Information

3.1 General Description of EUT

EUT Description:	4G Wireless Home Phone Base		
Model No.:	SD3200		
Trade Mark:	IRIS, START		
Hardware Version:	SD3200H3.0		
Software Version:	SD3200SV1.0.0		
Power Supply:	Powered by Rechargeable Li-ion Polymer Battery Battery information: Model: SA3000 Nominal Voltage: 3.8V Rated Capacity: 3000mAh Adapter information: Model: XT-C15A Input: 100-240VAC, 50/60Hz, 0.3A Output: 5V, 2A, 10W		
Antenna Type:	WWAN Internal Antenna: FPC Antenna WWAN External Antenna: Dipole Antenna WLAN: FPC Antenna		
Antenna Gain:	Band	Internal Antenna	External Antenna
	LTE Band 2	3.21dBi	3.70dBi
	LTE Band 4	3.22dBi	2.31dBi
	LTE Band 5	-0.94dBi	0.39dBi
	LTE Band 7	2.65dBi	2.85dBi
	LTE Band 12	-0.16dBi	-2.22dBi
	LTE Band 13	-1.02dBi	1.78dBi
	LTE Band 14	-0.88dBi	1.78dBi
	LTE Band 25	3.21dBi	3.70dBi
	LTE Band 26 (814-824)	-0.94dBi	0.89dBi
	LTE Band 26 (824-829)	-0.94dBi	0.39dBi
	LTE Band 30	1.19dBi	0.30dBi
	LTE Band 41	2.67dBi	3.10dBi
	LTE Band 66	3.22dBi	3.12dBi
	LTE Band 71	-0.16dBi	-3.91dBi
	2.4G Wi-Fi	1.26dBi	/
Remark: As above information is provided and confirmed by the applicant. SGS is not liable to the accuracy,			



suitability, reliability or/and integrity of the information.

3.2 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen Branch

No. 1 Workshop, M-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China. 518057.

Tel: +86 755 2601 2053 Fax: +86 755 2671 0594

No tests were sub-contracted.

3.3 Test Facility

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

- **A2LA (Certificate No. 3816.01)**

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 3816.01.

- **VCCI (Member No. 1937)**

The 3m Fully-anechoic chamber for above 1GHz, 10m Semi-anechoic chamber for below 1GHz, Shielded Room for Mains Port Conducted Interference Measurement and Telecommunication Port Conducted Interference Measurement of SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen EMC laboratory have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-20026, R-14188, C-12383 and T-11153 respectively.

- **FCC –Designation Number: CN1336**

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized as an accredited testing laboratory.

Designation Number: CN1336. Test Firm Registration Number: 787754.

- **Innovation, Science and Economic Development Canada**

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0006.

IC#: 4620C.



4 RF Exposure Evaluation

4.1 RF Exposure Compliance Requirement

4.1.1 Limits

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm ²)	Averaging time (minutes)
(A) Limits for Occupational/Controlled Exposures				
0.3-3.0	614	1.63	*(100)	6
3.0-30	1842/f	4.89/f	*(900/f ²)	6
30-300	61.4	0.163	1.0	6
300-1500	/	/	f/300	6
1500-100,000	/	/	5	6
(B) Limits for General Population/Uncontrolled Exposure				
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
 RF exposure compliance will need to be determined with respect to 1.1307(c) and (d) of the FCC rules. The emissions should be within the limits at 300kHz in Table 1 of 1.1310(use the 300kHz limits for 150kHz:614V/m,1.63A/m).

Friis Formula

Friis transmission 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

P_d is the limit of MPE, 1 mW/cm². If we know the maximum gain of the antenna and the total power input to the antenna, through the calculation, we will know the distance r where the MPE limit is reached.



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Shenzhen Branch

No.1 Workshop, M-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057
中国·广东·深圳市南山区科技园中区M-10栋1号厂房 邮编:518057

t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn
t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

4.1.2 Test Procedure

Software provided by client enabled the EUT to transmit data at lowest, middle and highest channel individually

4.1.3 EUT RF Exposure Evaluation

RF Exposure Evaluation Distance: 20cm

Standalone transmission:

WWAN use Internal Antenna

Mode	Frequency (MHz)	Maximum Conducted Power (dBm)	Antenna Gain (dBi)	Power Density (mW/cm ²)	Limit of Power Density (mW/cm ²)	Ratio	Verdict
LTE Band 2	1850.7	24	3.70	0.117	1.000	0.1172	Pass
LTE Band 4	1710.7	24	2.31	0.085	1.000	0.0851	Pass
LTE Band 5	824.7	24	0.39	0.055	0.550	0.0995	Pass
LTE Band 7	2502.5	24	2.85	0.096	1.000	0.0964	Pass
LTE Band 12	699.7	24	-2.22	0.030	0.466	0.0643	Pass
LTE Band 13	779.5	24	1.78	0.075	0.520	0.1450	Pass
LTE Band 14	790.5	24	1.78	0.075	0.527	0.1429	Pass
LTE Band 25	1852.5	24	3.70	0.117	1.000	0.1172	Pass
LTE Band 26 (814-824)	817	24	0.89	0.061	0.545	0.1127	Pass
LTE Band 26 (824-849)	824.7	24	0.39	0.055	0.550	0.0995	Pass
LTE Band 30	2307.5	24	0.30	0.054	1.000	0.0536	Pass
LTE Band 41	2498.5	24	3.10	0.102	1.000	0.1021	Pass
LTE Band 66	1710.7	24	3.12	0.103	1.000	0.1026	Pass
LTE Band 71	665.5	24	-3.91	0.020	0.444	0.0458	Pass
2.4GWi-Fi	2412	18	1.26	0.017	1.000	0.0168	Pass

Note: The maximum conducted power is referred to the tune up



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WWAN use External Antenna

Mode	Frequency (MHz)	Maximum Conducted Power (dBm)	Antenna Gain (dBi)	Power Density (mW/cm ²)	Limit of Power Density (mW/cm ²)	Ratio	Verdict
LTE Band 2	1850.7	24	3.21	0.105	1.000	0.1047	Pass
LTE Band 4	1710.7	24	3.22	0.105	1.000	0.1049	Pass
LTE Band 5	824.7	24	-0.94	0.040	0.550	0.0732	Pass
LTE Band 7	2502.5	24	2.65	0.092	1.000	0.0920	Pass
LTE Band 12	699.7	24	-0.16	0.048	0.466	0.1033	Pass
LTE Band 13	779.5	24	-1.02	0.040	0.520	0.0761	Pass
LTE Band 14	790.5	24	-0.88	0.041	0.527	0.0775	Pass
LTE Band 25	1852.5	24	3.21	0.105	1.000	0.1047	Pass
LTE Band 26 (814-824)	817	24	-0.94	0.040	0.545	0.0739	Pass
LTE Band 26 (824-849)	824.7	24	-0.94	0.040	0.550	0.0732	Pass
LTE Band 30	2307.5	24	1.19	0.066	1.000	0.0658	Pass
LTE Band 41	2498.5	24	2.67	0.092	1.000	0.0925	Pass
LTE Band 66	1710.7	24	3.22	0.105	1.000	0.1049	Pass
LTE Band 71	665.5	24	-0.16	0.048	0.444	0.1086	Pass
2.4GWi-Fi	2412	18	1.26	0.017	1.000	0.0168	Pass

Note: The maximum conducted power is referred to the tune up

Simultaneous transmission

Test Mode	2.4G Wi-Fi	LTE (Internal Antenna)	LTE (External Antenna)	Total Ratio	Limit	Verdict
Maximum Ratio	0.0168	0.1172	0.1086	N/A	N/A	N/A
Scenario 1	☒	☒		0.1340	1.0	Pass
Scenario 2	☒		☒	0.1254	1.0	Pass

Note: WWAN Band was calculated on worst Band.

The EUT meet the Exemption Limits for Routine Evaluation – SAR Evaluation, so no SAR evaluation is required for the EUT.

---End of Report---



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中国·广东·深圳市南山区科技园中区M-10栋1号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

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