RF EXPOSURE REPORT



Report No.: 15070824-FCC-H2
Supersede Report No.: N/A

Applicant	Factorytech S.A.			
Product Name	Function Phone			
Model No.	S1			
Serial No.	N/A			
Test Standard	FCC 2.1093	3		
Test Date	September 09 to September 24, 2015			
Issue Date	September	28, 2015		
Test Result	Pass Fail			
Equipment complied with the specification				
Equipment did not comply with the specification				
Winnie Zheng David Huang				
Winnie Zhang Test Engineer			Huang ked By	

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Test result presented in this test report is applicable to the tested sample only

Issued by:

SIEMIC (SHENZHEN-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
15070824-FCC-H2	NONE	Original	September 28, 2015

2. Customer information

Applicant Name	Factorytech S.A.	
Applicant Add	Km 16 Via Daule, Guayaquil- Ecuador	
Manufacturer	DongGuan Tenexon Communication Technology Co., Ltd	
Manufacturer Add	Floor 1 to 3, Block A, Building B, Kenwan 9th Road No.1, Tang Xia Town,	
	Dongguan City	

3. Test site information

Lab performing tests	SIEMIC (Shenzhen-China) LABORATORIES		
	Zone A, Floor 1, Building 2 Wan Ye Long Technology Park		
Lab Address	South Side of Zhoushi Road, Bao' an District, Shenzhen, Guangdong		
	China 518108		
FCC Test Site No.	718246		
IC Test Site No.	4842E-1		
Test Software	Radiated Emission Program-To Shenzhen v2.0		



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4. Equipment under Test (EUT) Information

Description of EUT:	Function Phone
Main Model:	S1
Serial Model:	N/A
Date EUT received:	September 09, 2015
Test Date(s):	September 09 to September 24, 2015
Antenna Gain:	GSM850: 0.3 dBi PCS1900: 0.35 dBi Bluetooth: 0.1 dBi
Type of Modulation:	GSM / GPRS: GMSK Bluetooth: GFSK, π /4DQPSK, 8DPSK
RF Operating Frequency (ies):	GSM850 TX: 824.2 ~ 848.8 MHz; RX: 869.2 ~ 893.8 MHz PCS1900 TX: 1850.2 ~ 1909.8 MHz; RX: 1930.2 ~ 1989.8 MHz Bluetooth: 2402-2480 MHz
Number of Channels:	GSM 850: 124CH PCS1900: 299CH Bluetooth: 79CH
Port:	Power Port, Earphone Port, USB Port
	Battery:

Model: F59-4L

Spec: 3.7V 1400mAh

Input Power: Adapter:

Model: S1

Input: AC 180-240V; 50/60Hz 0.15A Max

Output: DC 5.0V;500mA



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Trade Name :	Pixela
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FCC ID: 2AFWX-S1



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5. FCC §2.1093 - Radiofrequency radiation exposure evaluation: portable devices.

5.1 RF Exposure

Standard Requirement:

According to §15.247 (i) and §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.

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:

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] $\cdot \sqrt{f_{(GHz)}} \le 3.0$ for 1-g SAR and ≤ 7.5 for 10-g extremity SAR, 16 where

- f_(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.

Routine SAR evaluation refers to that specifically required by § 2.1093, using measurements or computer simulation. When routine SAR evaluation is not required, portable transmitters with output power greater than the applicable low threshold require SAR evaluation to qualify for TCB approval.

result = $P\sqrt{F}/D$

P= Maximum turn-up power in mW

F= Channel frequency in GHz

D= Minimum test separation distance in mm



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5.2 Test Result

Bluetooth Mode:

Modulation	СН	Freq (MHz)	Conducted	Tune Up Power	Max Tune Up Power	Max Tune Up Power	Result	Limit
			(dBm)	(dBm)	(dBm)	(mW)		
GFSK	Low	2402	1.997	1±1	2	1.585	0.49	3
	Mid	2441	1.907	1±1	2	1.585	0.50	3
	High	2480	1.018	1±1	2	1.585	0.50	3
π /4 DQPSK	Low	2402	1.285	1±1	2	1.585	0.49	3
	Mid	2441	1.046	1±1	2	1.585	0.50	3
	High	2480	0.537	1±1	2	1.585	0.50	3
8-DPSK	Low	2402	1.665	1±1	2	1.585	0.49	3
	Mid	2441	1.132	1±1	2	1.585	0.50	3
	High	2480	0.698	1±1	2	1.585	0.50	3

Result: Compliance

No SAR measurement is required.