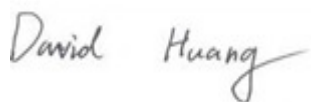


RF EXPOSURE REPORT



Report No.: 17070225-FCC-H2

Supersede Report No.: N/A

Applicant	Shenzhen Konka Telecommunications Technology Co., Ltd.	
Product Name	Smart Phone	
Model No.	ADR9	
Serial No.	N/A	
Test Standard	FCC 2.1093:2016	
Test Date	March 29 to April 16, 2017	
Issue Date	April 17, 2017	
Test Result	☒ Pass ☐ Fail	
Equipment complied with the specification ☒		
Equipment did not comply with the specification ☐		
		
Loren Luo Test Engineer	David Huang Checked By	
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 (SHENZHEN-CHINA) LABORATORIES

Zone A, Floor 1, Building 2 Wan Ye Long Technology Park

South Side of Zhoushi Road, Bao' an District, Shenzhen, Guangdong China 518108

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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
17070225-FCC-H2	NONE	Original	April 17, 2017

2. Customer information

Applicant Name	Shenzhen Konka Telecommunications Technology Co., Ltd.
Applicant Add	No.9008 Shennan Road,Overseas Chinese Town, ShenZhen, Guangdong,China
Manufacturer	Shenzhen Konka Telecommunications Technology Co., Ltd.
Manufacturer Add	No.9008 Shennan Road,Overseas Chinese Town, ShenZhen, Guangdong,China

3. Test site information

Lab performing tests	SIEMIC (Shenzhen-China) LABORATORIES
Lab Address	Zone A, Floor 1, Building 2 Wan Ye Long Technology Park 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

4. Equipment under Test (EUT) Information

Description of EUT: Smart Phone

Main Model: ADR9

Serial Model: N/A

Date EUT received: March 28, 2017

Test Date(s): March 29 to April 16, 2017

Antenna Gain:	GSM850: -0.43dBi
	PCS1900: 0.79dBi
	UMTS-FDD Band V: -0.43dBi
	UMTS-FDD Band II: 0.79dBi
	LTE Band IV: 0.89 dBi
	Bluetooth/BLE/WiFi: -0.56dBi
	GPS: 0.79dBi

Antenna Type: PIFA antenna

Type of Modulation:	GSM / GPRS: GMSK
	EGPRS: GMSK, 8PSK
	UMTS-FDD: QPSK
	LTE Band: QPSK, 16QAM
	802.11b/g/n: DSSS, OFDM
	Bluetooth: GFSK, $\pi/4$ DQPSK, 8DPSK
	BLE: GFSK
	GPS: BPSK

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
- UMTS-FDD Band V TX: 826.4 ~ 846.6 MHz; RX: 871.4 ~ 891.6 MHz
- UMTS-FDD Band II TX: 1852.4 ~ 1907.6 MHz;
RX: 1932.4 ~ 1987.6 MHz
- LTE Band IV TX: 1710.7 ~ 1754.3 MHz; RX : 2110.7 ~ 2154.3 MHz
- WIFI: 802.11b/g/n(20M): 2412-2462 MHz
- WIFI: 802.11n(40M): 2422-2452 MHz
- Bluetooth& BLE: 2402-2480 MHz

GPS: 1575.42 MHz

GSM 850: 124CH

PCS1900: 299CH

UMTS-FDD Band V: 102CH

UMTS-FDD Band II: 277CH

Number of Channels:

WIFI :802.11b/g/n(20M): 11CH

WIFI :802.11n(40M): 7CH

Bluetooth: 79CH

BLE: 40CH

GPS:1CH

Port:

USB Port, Earphone Port

Adapter:

Model: HJ-050100-AR

Input: AC100-240V~50/60Hz,0.15A

Output: DC 5.0V,1.0A

Input Power:

Battery:

Model: KLB250P373

Spec : 3.8V,2500mAh,9.5Wh

Maximum chargeable voltage: 4.35V

Trade Name :

ADMIRAL

GPRS/EGPRS Multi-slot class

8/10/12

FCC ID:

UT3ADR9

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:

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

- $f_{\text{(GHz)}}$ 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.

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

P= Maximum turn-up power in mW

F= Channel frequency in GHz

D= Minimum test separation distance in mm

5.2 Test Result

Bluetooth Mode:

Modulation	CH	Frequency (MHz)	Conducted Power (dBm)	Tune Up Power (dBm)	Max Tune Up Power (dBm)	Max Tune Up Power (mW)	Result	Limit
GFSK	Low	2402	4.765	4.5±1	5.5	3.548	1.10	3
	Mid	2441	4.909	4.5±1	5.5	3.548	1.11	3
	High	2480	4.982	4.5±1	5.5	3.548	1.12	3
π /4 DQPSK	Low	2402	4.240	4.5±1	5.5	3.548	1.10	3
	Mid	2441	4.133	4.5±1	5.5	3.548	1.11	3
	High	2480	4.093	4.5±1	5.5	3.548	1.12	3
8-DPSK	Low	2402	4.269	4.5±1	5.5	3.548	1.10	3
	Mid	2441	4.274	4.5±1	5.5	3.548	1.11	3
	High	2480	4.280	4.5±1	5.5	3.548	1.12	3

WIFI Mode:

Modulation	CH	Frequency (MHz)	Conducted Power (dBm)	Tune Up Power (dBm)	Max Tune Up Power (dBm)	Max Tune Up Power (mW)	Result	Limit
802.11b	Low	2412	8.73	8.5±1	9.5	8.913	2.77	3
	Mid	2437	8.46	8.5±1	9.5	8.913	2.78	3
	High	2462	8.78	8.5±1	9.5	8.913	2.80	3
802.11g	Low	2412	8.79	8.5±1	9.5	8.913	2.77	3
	Mid	2437	8.78	8.5±1	9.5	8.913	2.78	3
	High	2462	8.78	8.5±1	9.5	8.913	2.80	3
802.11n (20M)	Low	2412	8.59	8.5±1	9.5	8.913	2.77	3
	Mid	2437	8.73	8.5±1	9.5	8.913	2.78	3
	High	2462	8.60	8.5±1	9.5	8.913	2.80	3
802.11n (40M)	Low	2422	8.60	8.5±1	9.5	8.913	2.77	3
	Mid	2437	8.67	8.5±1	9.5	8.913	2.78	3
	High	2452	8.57	8.5±1	9.5	8.913	2.79	3

BLE Mode:

Modulation	CH	Freq (MHz)	Conducted Power (dBm)	Tune Up Power (dBm)	Max Tune Up Power (dBm)	Max Tune Up Power (mW)	Result	Limit
GFSK	Low	2402	4.549	4.5±1	5.5	3.548	1.10	3
	Mid	2440	4.339	4.5±1	5.5	3.548	1.11	3
	High	2480	4.828	4.5±1	5.5	3.548	1.12	3

Result: Compliance

No SAR measurement is required.