

588 West Jindu Road, Songjiang District, Shanghai, China

Telephone: +86 (0) 21 6191 5666 Fax: +86 (0) 21 6191 5678

ee.shanghai@sgs.com

Report No.: SHEM130300048102

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FCC REPORT

Application No. :	SHEM1303000481RF		
Applicant:	Axesstel,Inc.		
FCC ID:	PH7AI100		
Equipment Under Test (E	•		
NOTE: The following samp	ble(s) submitted was/were identified on behalf of the client as		
Product Name:	CDMA 1x Alert System (Sensor)		
Brand Name:	Axesstel		
Model:	AX54(Sensor)		
Added Model:	N/A		
Standards:	FCC PART 15 Subpart C: 2012		
Date of Receipt:	Mar.29, 2013		
Date of Test:	Apr. 1, 2013 to Apr. 23, 2013		
Date of Issue:	Apr.23, 2013		
Test Result :	PASS *		

^{*}In the configuration tested, the EUT detailed in this report complied with the standards specified above.

Tony Wu

E&E Section Manager

SGS-CSTC (Shanghai) Co., Ltd.

The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards.

The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government. All test results in this report can be traceable to National or International Standards.

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2 Version

Revision Record							
Version Chapter Date Modifier Remark							
00	/	Apr.23, 2013	/	Original			

Authorized for issue by:		
Engineer	Zenger Zhang	Zenger Zhang
	Print Name	
Clerk	Amy Wang Print Name	Amy Wang
Reviewer	Keny Xu Print Name	Keny xu



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3 Test Summary

Test Item	Test Requirement	Test method	Result
Antenna Requirement	47 CFR Part 15, Subpart C Section 15.203	art C Section ANSI C63.10(2009)	
AC Power Line Conducted Emission	47 CFR Part 15, Subpart C Section 15.207	ANSI C63.10(2009)	N/A
Field Strength of the Fundamental Signal	47 CFR Part 15, Subpart C Section 15.231 (b)	ANSI C63.10(2009)	PASS
Spurious Emissions	47 CFR Part 15, Subpart C Section 15.231 (b)/15.209	ANSI C63.10(2009)	PASS
20dB Bandwidth	47 CFR Part 15, Subpart C Section 15.231 (c)	ANSI C63.10(2009)	PASS
Dwell Time	47 CFR Part 15, Subpart C Section 15.231 (a)	ANSI C63.10(2009)	PASS

Remark: This EUT is powered by battery only; therefore the AC Conducted Emission test is not applicable.



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5 General Information

5.1 Client Information

Applicant:	Axesstel, Inc			
Address of Applicant:	6815 Flanders Drive, Ste 210, San Diego, CA92121, USA			
Manufacturer:	Axesstel (Shanghai) Ltd.			
Address of Manufacturer:	Room 1101, Building 19, No.1515 Gumei Road, Xuhui District, Shanghai			
Factory:	Eastcom incorporated Co.,LTD			

5.2 General Description of E.U.T.

Product Name	CDMA 1x Alert System (Sensor)
Brand Name:	Axesstel
Model No:	AX54(Sensor)
Added Model:	N/A
Product Description:	Fixed production

5.3 Technical Specifications:

Operation Frequency:	433.92MHz / 1Channel
Modulation Type:	ASK
Number of Channel:	1
Power Supply:	9V DC (The new battery is used for the EUT during the measurement)
Antenna Type	Integral

5.4 Support equipments for Testing

The EUT has been tested independently.

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5.5 Details of Test Mode

Test Mode	Description of Test Mode
Transmitting mode	The EUT on continuously transmitting mode.

5.6 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. E&E Lab No.588 West Jindu Road, Songjiang District, Shanghai, China. 201612.

Tel: +86 21 6191 5666 Fax: +86 21 6191 5678

No tests were sub-contracted.

5.7 Test Facility

CNAS (No. CNAS L0599)

CNAS has accredited SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. to ISO/IEC 17025:2005 General Requirements for the Competence of Testing and Calibration Laboratories (CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration Laboratories) for the competence in the field of testing. Date of expiry: 2014-07-26.

• FCC – Registration No.: 402683

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. has been registered and fully described in a report filed with the Federal Communications Commission (FCC). The acceptance letter from the FCC is maintained in our files. Registration No.: 402683, Expiry Date: 2015-02-22.

Industry Canada (IC) – IC Assigned Code: 8617A

The 3m Semi-anechoic chamber of SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 8617A. Expiry Date: 2014-09-20.

VCCI (Member No.: 3061)

The 3m Semi-anechoic chamber and Shielded Room of SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-3868 and C-4336 respectively. Date of Registration: 2012-05-29. Date of Expiry: 2015-05-28.

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6 Equipments Used during Test

Conducted Emission

Item	Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Due date
1	EMI test receiver	Rohde & Schwarz	ESCS30	100086	2012-06-13	2013-06-12
2	Line impedance stabilization network (LISN)	SCHWARZBECK	NSLK8127	8127-490	2012-06-13	2013-06-12
3	Line impedance stabilization network (LISN)	ETS	3816/2	00034161	2012-06-13	2013-06-12

Radiated Spurious Emission

	1 Indulated Optimical Emission					
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Due date
1	EMI test receiver	Rohde & Schwarz	ESU40	100109	2012-06-02	2013-06-01
2	Antenna	SCHWARZBECK	VULB9168	9168-313	2012-08-15	2013-08-14
3	CONTROLLER	INNCO	CO200	474	/	/
4	Antenna	SCHWARZBECK	BBHA9120D	9120D-679	2012-08-15	2013-08-14
5	Antenna	SCHWARZBECK	BBHA9170	9170-373	2012-08-15	2013-08-14
6	Low nosie amplifier	LNA6900	TESEQ	71033	2012-08-15	2013-08-14

☒ RF Conducted Test

Item	Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Due date
1	EMI test receiver	Rohde & Schwarz	ESU40	100109	2012-06-03	2013-06-01
2	Horn Antenna	SCHWARZBECK	BBHA9120D	9120D-679	2012-06-03	2013-06-01
3	Horn Antenna	Rohde & Schwarz	HF906	100284	2012-06-03	2013-06-01
4	ANTENNA	SCHWARZBECK	VULB9168	9168-313	2012-06-03	2013-06-01
5	Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA91703 73	2012-08-15	2013-08-14
6	Ultra broadband antenna	Rohde & Schwarz	HL562	100227	2012-10-09	2013-10-08
7	Atmosphere pressure meter	Shanghai ZhongXuan Electronic Co;Ltd	BY-2009P		2012-10-09	2013-10-08
8	CLAMP METER	FLUKE	316	86080010	2012-06-03	2013-06-01
9	Thermo- Hygrometer	ZHICHEN	ZC1-2	01050033	2012-10-09	2013-10-08

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11	High-low temperature cabinet	Shanghai YuanZhen	GW2050		2012-06-03	2013-06-01
12	Tunable Notch Filter	Wainwright instruments	WRCT1800. 0/ 2000.0- 0.2/40-5SSK	11	2012-06-03	2013-06-01
13	Tunable Notch Filter	Wainwright instruments Gmbh	WRCT800.0/ 880.0- 0.2/40-5SSK	9	2012-06-03	2013-06-01
14	High pass Filter	FSCW	HP 12/2800- 5AA2	19A45-02	2012-06-03	2013-06-01
15	Low nosie amplifier	TESEQ	LNA6900	70133	2012-06-03	2013-06-01
16	EMI test receiver	Rohde & Schwarz	ESCS30	100086	2012-06-03	2013-06-01
17	Line impedance stabilization network	SCHWARZBECK	NSLK8127	8127-490	2012-06-03	2013-06-01
18	Active Loop Antenna	Beijing Daze	ZN30900A	0097	2012-10-28	2013-10-27



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7 Test results and Measurement Data

7.1 Antenna Requirement

Standard requirement: 47 CFR Part 15C Section 15.203

15.203 Requirement:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

EUT Antenna:

The antenna is integrated on the main PCB and no consideration of replacement. The best case gain of the antenna is 0dBi.



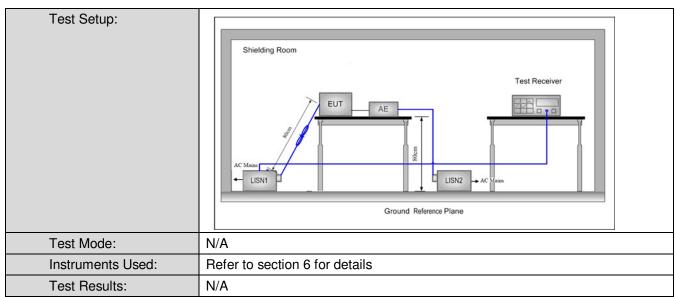
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7.2 Conducted Emissions

Test Requirement:	47 CFR Part 15C Section 15.207					
Test Method:	ANSI C63.10: 2009					
Test Frequency Range:	150kHz to 30MHz					
Limit:	Fraguesia vanga (MIII-)	Limit (d	lBuV)			
	Frequency range (MHz)	Quasi-peak	Average			
	0.15-0.5	66 to 56*	56 to 46*			
	0.5-5	56	46			
	5-30	60	50			
	* Decreases with the logarithn	n of the frequency.		_		
Test Procedure:	1) The mains terminal disturbation. 2) The EUT was connected Impedance Stabilization Net impedance. The power connected to a second LIS plane in the same way a multiple socket outlet strip single LISN provided the rassingle LISN provided the LISN unit under test and bonded mounted on top of the ground the closest points of the LI and associated equipment to line the interface cab cab capture and all of the interface cab cab capture line line line line line line line lin	to AC power source work) which provides cables of all other is the LISN 1 for the was used to connect in ating of the LISN was naced upon a non-metal and for floor-standing arround reference plane, in a vertical ground reference plane was bonded to the 1 was placed 0.8 m from the vertical ground reference und reference plane. The SN 1 and the EUT. All was at least 0.8 m from emission, the relative ples must be changed a	through a LISN 1 a 50Ω/50μH + 5Ω I units of the EUT d to the ground refer unit being measure nultiple power cables to texceeded. Ilic table 0.8m above rangement, the EUT efference plane. The efference plane. The e horizontal ground om the boundary of the plane for LISNs his distance was betwother units of the EUm the LISN 2.	(Line linear were rence ed. A s to a e the was ar of the ween IT		



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Measurement Data

This EUT is powered by battery only, therefore the AC Conducted Emission test is not applicable.



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7.3 Spurious Emissions

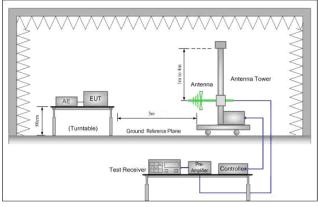
7.3.1 Spurious Emissions

Test Requirement:	47 CFR Part 15C Section 15.231(b) and 15.209						
Test Method:	ANSI C63.10: 2009						
Test frequency range	9KHz – 6GHz						
Test Site:	Measurement Distance: 3m (Semi-Anechoic Chamber)						
Receiver Setup:	Frequency	Detector	RBW	VBW	Remark		
	0.009MHz-0.015MHz	Quasi-peak	200Hz	1KHz	Quasi-peak		
	0.015MHz-30MHz	Quasi-peak	9kHz	30KHz	Quasi-peak		
	30MHz-1GHz	Quasi-peak	120 kHz	300KHz	Quasi-peak		
	Above 1GHz	Peak	1MHz	3MHz	Peak		
	Above IGHZ	Peak	1MHz	10Hz	Average		
Limit: (Spurious Emissions)	Frequency	Field strength (microvolt/met er)	Limit (dBuV/m)	Remark	Measureme nt distance (m)		
	0.009MHz-0.490MHz	2400/F(kHz)	-	Quasi-peak	300		
	0.490MHz-1.705MHz	24000/F(kHz)	-	Quasi-peak	30		
	1.705MHz-30MHz	30	-	Quasi-peak	30		
	30MHz-88MHz	100	40. 0	Quasi-peak	3		
	88MHz-216MHz	150	43. 5	Quasi-peak	3		
	216MHz-960MHz	200	46. 0	Quasi-peak	3		
	960MHz-1GHz	500	54. 0	Quasi-peak	3		
	AL 4011	500	54. 0	Average	3		
	Above 1GHz		74. 0	Peak	3		
Limit:	Frequency	Limit (dBuV	/m @3m)	Re	mark		
(Field strength of the	400.00111-	8.08	3	Averaç	Average Value		
fundamental signal)	433.92MHz	100.	8	Peak	Peak Value		

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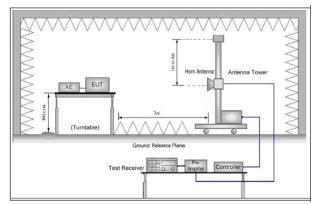


Figure 2. 30MHz to 1GHz

Figure 3. Above 1 GHz

Test mode:	Transmitting mode
Instruments Used:	Refer to section 6 for details
Test Results:	Pass

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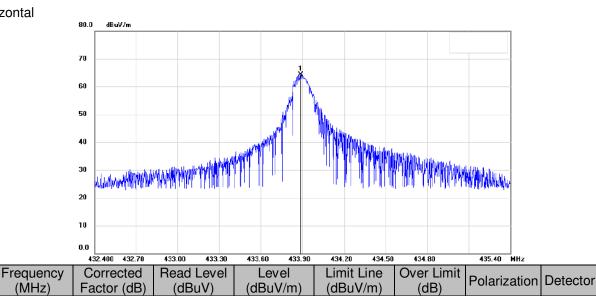
Measurement Data

7.3.1.1 Field Strength Of The Fundamental Signal

-15.63

85.22

Horizontal



8.08

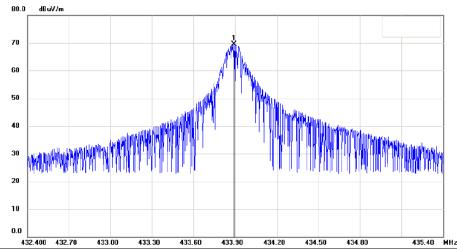
-11.21

Horizontal

Peak

Vertical

433.92



69.59

Frequency (MHz)	Corrected Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization	Detector
433.92	-15.63	79.86	64.23	80.8	-16.57	Vertical	Peak

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7.3.1.2 Spurious Emissions

Below 1GHz

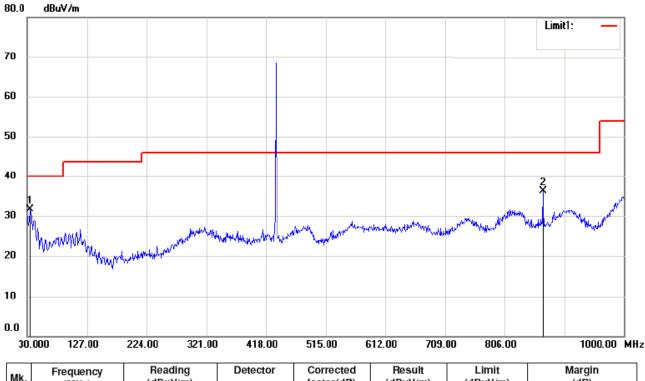
Vertical: 80.0 dBuV/m Limit1: 70 60 50 2 X 40 30 20 10 0.030.000 127.00 224.00 321.00 418.00 515.00 612.00 709.00 806.00 1000.00 MHz Reading Limit Margin Detector Corrected Result Frequency Mk. (dBuV/m) (MHz) factor(dB) (dBuV/m) (dBuV/m) (dB) 34.8500 53.96 -22.65 31.31 40.00 -8.69 1 peak 2 868.0800 52.15 peak -10.4041.75 46.00 -4.25

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Horizontal:



Mk.	Frequency (MHz)	Reading (dBuV/m)	Detector	Corrected factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)
1	34.8500	54.26	peak	-22.65	31.61	40.00	-8.39
2	868.0800	46.71	peak	-10.40	36.31	46.00	-9.69

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1GHz - 6GHz

Peak Value:

Frequency (MHz)	Factor (dB/m)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
1300	-12.04	45.76	33.72	54	-20.28	Horizontal
2170	-6.88	41.53	34.65	54	-19.35	Horizontal
3905	-2.54	44.42	41.88	54	-12.12	Horizontal
2170	-6.88	47.77	40.89	54	-13.11	Vertical
2600	-6.15	39.4	33.25	54	-20.75	Vertical
3905	-2.54	49.61	47.07	54	-6.93	Vertical
5645	1.37	43.95	45.32	54	-8.68	Vertical

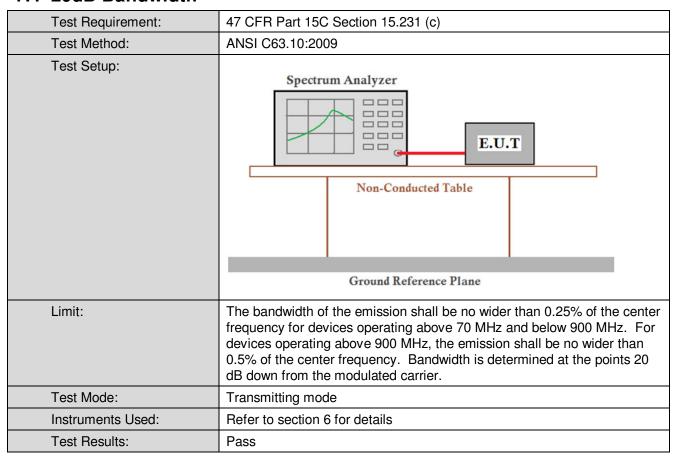
Remark:

- 1) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:
 - Final Test Level = Receiver Reading + Antenna Factor + Cable Factor Preamplifier Factor
- 2) The disturbance below 30MHz was very low, and the above harmonics were the highest point could be found when testing, so only the above harmonics had been displayed.



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7.4 20dB Bandwidth



Measurement Data

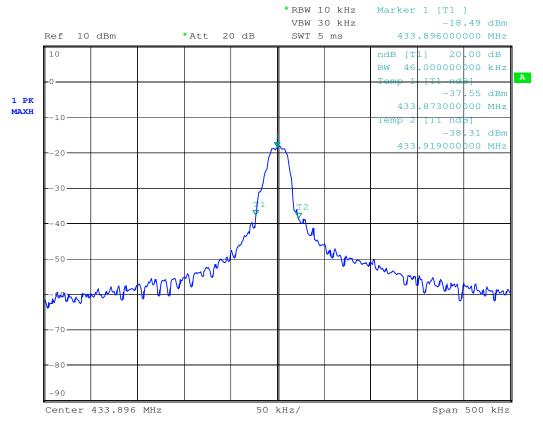
20dB bandwidth (kHz)	Limit (kHz)	Results
46.00	108	Pass

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Test plot as follows:

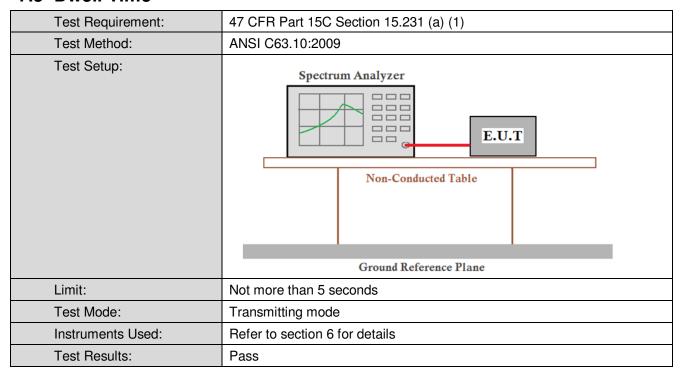


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7.5 Dwell Time



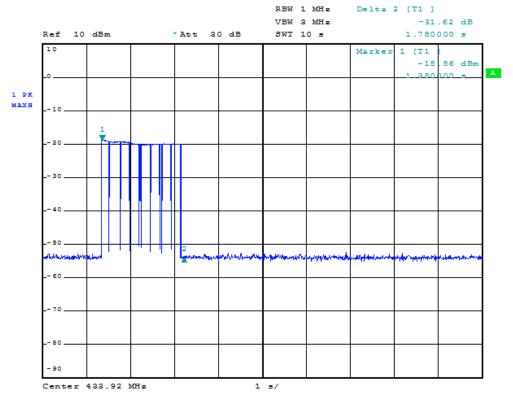
Measurement Data

Test item	Limit (s)	Results
Transmitting time	≤5S	Pass



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Test plot as follows:



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8 Photographs - EUT Test Setup

Refer to the < AX54--Test Setup photos>.

9 Photographs - EUT Constructional Details

Refer to the < AX54--External Photos > & < AX54--Internal Photos >.