

Report No: CCISE190605003

FCC REPORT

Applicant:	Smartech, C. A.
Address of Applicant:	Manongo Avenue with Palma Real Street, C.C. Via Veneto, Milan Level, M32 Local, Manongo, Valencia City, Carabobo State, Venezuela.
Equipment Under Test (E	EUT)
Product Name:	2G mobile phone
Model No.:	L1
Trade mark:	Win
FCC ID:	2ATS6L1
Applicable standards:	FCC CFR Title 47 Part 15 Subpart B
Date of sample receipt:	14 Jun., 2019
Date of Test:	14 Jun., to 15 Jul., 2019
Date of report issued:	16 Jul., 2019
Test Result:	PASS *

* In the configuration tested, the EUT complied with the standards specified above.

Authorized Signature:



Laboratory Manager

This report details the results of the testing carried out on one sample. The results contained in this test report do not relate to other samples of the same product and does not permit the use of the CCIS product certification mark. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

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Version 2

Version No.	Date	Description
00	16 Jul., 2019	Original

Tested by:

Yaro Wn Test Engineer Winner Mang

Date:

Date:

16 Jul., 2019

16 Jul., 2019

Reviewed by:

Project Engineer



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4 Test Summary

Test Item	Section in CFR 47	Result	
Conducted Emission	Part 15.107	Pass	
Radiated Emission	Part 15.109	Pass	
Remark: Pass: The EUT complies with the essential r N/A: The EUT not applicable of the test item.	•		

5 General Information

5.1 Client Information

Applicant:	Smartech, C.A.
Address:	Manongo Avenue with Palma Real Street, C.C. Via Veneto, Milan Level, M32 Local, Manongo, Valencia City, Carabobo State, Venezuela.
Manufacturer/ Factory:	Hongkong Lesia Technology CO., Ltd
Address:	UNIT 04 7/F BRIGHT WAY TOWER NO.33 MONG KOK ROAD KOWLOON
Factory:	Jiangxi Leisa Technology Co., Ltd
Address:	Yangjiahu district (south of xiangxing avenue), industrial park, gao 'an city, jiangxi province

5.2 General Description of E.U.T.

Product Name:	2G mobile phone
Model No.:	L1
Power supply:	Rechargeable Li-ion Battery DC3.7V-600mAh
AC adapter :	Model: L1 Input: AC100-240V, 50/60Hz, 0.15A Output: DC 5.0V, 500mA
Test Sample Condition:	The test samples were provided in good working order with no visible defects.

5.3 Test Mode

Operating mode	Detail description			
PC mode	Keep the EUT in Downloading mode(Worst case)			
Charging+Recording mode	Keep the EUT in Charging+Recording mode			
Charging+Playing mode	Keep the EUT in Charging+Playing mode			
FM mode	Keep the EUT in FM receiver mode			
The sample was placed 0.8m above the ground plane of 3m chamber. Measurements in both horizontal and				

The sample was placed 0.8m above the ground plane of 3m chamber. Measurements in both horizontal and vertical polarities were performed. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, rotating the turntable, varying antenna height from 1m to 4m in both horizontal and vertical polarizations. The emissions worst-case are shown in Test Results of the following pages.

5.4 Measurement Uncertainty

Parameters	Expanded Uncertainty
Conducted Emission (9kHz ~ 30MHz)	±1.60 dB (k=2)
Radiated Emission (9kHz ~ 30MHz)	±3.12 dB (k=2)
Radiated Emission (30MHz ~ 1000MHz)	±4.32 dB (k=2)
Radiated Emission (1GHz ~ 18GHz)	±5.38 dB (k=2)
Radiated Emission (18GHz ~ 40GHz)	±3.36 dB (k=2)



5.5 Description of Support Units

Manufacturer	Description	Model	Serial Number	FCC ID/DoC
DELL	PC	OPTIPLEX745	N/A	DoC
DELL	MONITOR	E178FPC	N/A	DoC
DELL	KEYBOARD	SK-8115	N/A	DoC
DELL	MOUSE	MOC5UO	N/A	DoC
LENOVO	Laptop	SL510	2847A65	DoC

5.6 Related Submittal(s) / Grant (s)

This is an original grant, no related submittals and grants.

5.7 Description of Cable Used

Cable Type	Description	Length	From	То
Detached USB Cable	Unshielded	1.0m	EUT	PC/Adapter
Detached headset cable	Unshielded	1.2m	EUT	Headset

5.8 Laboratory Facility

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

• FCC - Designation No.: CN1211

Shenzhen Zhongjian Nanfang Testing Co., Ltd. has been accredited as a testing laboratory by FCC(Federal Communications Commission). The test firm Registration No. is 727551.

• ISED – CAB identifier.: CN0021

The 3m Semi-anechoic chamber of Shenzhen Zhongjian Nanfang Testing Co., Ltd. has been Registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 10106A-1.

• CNAS - Registration No.: CNAS L6048

Shenzhen Zhongjian Nanfang Testing Co., Ltd. is accredited to ISO/IEC 17025:2005 General Requirements for the Competence of Testing and Calibration laboratories for the competence of testing. The Registration No. is CNAS L6048.

• A2LA - Registration No.: 4346.01

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005 General requirements for the competence of testing and calibration laboratories. The test scope can be found as below link: https://portal.a2la.org/scopepdf/4346-01.pdf

5.9 Laboratory Location

Shenzhen Zhongjian Nanfang Testing Co., Ltd. Address: No. B-C, 1/F., Building 2, Laodong No.2 Industrial Park, Xixiang Road, Bao'an District, Shenzhen, Guangdong, China Tel: +86-755-23118282, Fax: +86-755-23116366 Email: info@ccis-cb.com, Website: http://www.ccis-cb.com

5.10 Test Instruments list

Radiated Emission:						
Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)	
3m SAC	SAEMC	9m*6m*6m	966	07-22-2017	07-21-2020	
Loop Antenna	SCHWARZBECK	FMZB1519B	00044	03-18-2019	03-17-2020	
BiConiLog Antenna	SCHWARZBECK	VULB9163	497	03-18-2019	03-17-2020	
Horn Antenna	SCHWARZBECK	BBHA9120D	916	03-18-2019	03-17-2020	
Horn Antenna	SCHWARZBECK	BBHA9120D	1805	06-22-2017	06-21-2020	
Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170582	11-21-2018	11-20-2019	
EMI Test Software	AUDIX	E3	Version: 6.110919b		b	
Pre-amplifier	HP	8447D	2944A09358	03-18-2019	03-17-2020	
Pre-amplifier	CD	PAP-1G18	11804	03-18-2019	03-17-2020	
Spectrum analyzer	Rohde & Schwarz	FSP30	101454	03-18-2019	03-17-2020	
Spectrum analyzer	Rohde & Schwarz	FSP40	100363	11-21-2018	11-20-2019	
EMI Test Receiver	Rohde & Schwarz	ESRP7	101070	03-18-2019	03-17-2020	
Cable	ZDECL	Z108-NJ-NJ-81	1608458	03-18-2019	03-17-2020	
Cable	MICRO-COAX	MFR64639	K10742-5	03-18-2019	03-17-2020	
Cable	SUHNER	SUCOFLEX100	58193/4PE	03-18-2019	03-17-2020	

Conducted Emission:						
Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)	
EMI Test Receiver	Rohde & Schwarz	ESCI	101189	03-18-2019	03-17-2020	
Pulse Limiter	SCHWARZBECK	OSRAM 2306	9731	03-18-2019	03-17-2020	
LISN	CHASE	MN2050D	1447	03-18-2019	03-17-2020	
LISN	Rohde & Schwarz	ESH3-Z5	8438621/010	07-21-2018	07-20-2019	
Cable	HP	10503A	N/A	03-18-2019	03-17-2020	
EMI Test Software	AUDIX	E3	Version: 6.110919b			



6 Test results and Measurement Data

6.1 Conducted Emission

Test Requirement:	FCC Part 15 B Section 15.10	07	
Test Method:	ANSI C63.4:2014		
Test Frequency Range:	150kHz to 30MHz		
Class / Severity:	Class B		
Receiver setup:	RBW=9kHz, VBW=30kHz		
Limit:		Li	imit (dBµV)
	Frequency range (MHz)	Quasi-peak	Average
	0.15-0.5	66 to 56*	56 to 46*
	0.5-5	56	46
	0.5-30	60	50
	* Decreases with the logarith	im of the frequency	·.
Test setup:	Reference Pla	ne	
	AUX Equipment Test table/Insulation plane Remark: E.U.T. E.U.T Test table/Insulation plane Remark: E.U.T. E.U.T Test table/Insulation plane	EMI Receiver	AC power
Test procedure	 The E.U.T and simulators line impedance stabilization 500hm/50uH coupling imp The peripheral devices ar LISN that provides a 500h termination. (Please refers photographs). Both sides of A.C. line ar interference. In order to fin positions of equipment an according to ANSI C63.4: 	on network(L.I.S.N.) bedance for the me e also connected to m/50uH coupling in s to the block diagra e checked for maxi- nd the maximum en d all of the interface). The provide a asuring equipment. b the main power through a mpedance with 500hm am of the test setup and mum conducted nission, the relative e cables must be changed
Test environment:	Temp.: 22.5 °C Hur	nid.: 55%	Press.: 101kPa
Test Instruments:	Refer to section 5.9 for detai	ls	1
Test mode:	Refer to section 5.3 for detail	ls	
Test results:	Pass		



7

8

9

10

11 12

Notes:

3.

0.435

0.435

0.535

0.567

0.658

0.968

35.63

23.50

20.14

32.59

18.45

29.89

Final Level =Receiver Read level + LISN Factor + Cable Loss.

1. An initial pre-scan was performed on the line and neutral lines with peak detector.

-0.38

-0.38

-0.39

-0.39

-0.38

-0.38

10.73

10.73

10.76

10.76

10.77

10.86

2. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.

45.98

33.85

30.51

42.96

28.84

40.37

57.15 -11.17 QP

56.00 -13.04 QP

56.00 -15.63 QP

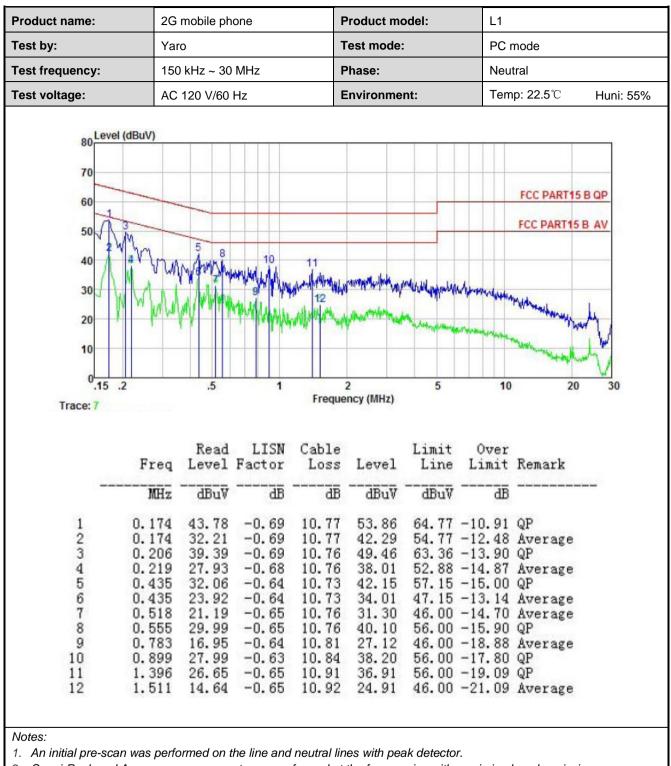
47.15 -13.30 Average

46.00 -15.49 Average

46.00 -17.16 Average

Product name:	2G r	mobile pho	one	Pr	Product model:			L1		
Test by:	Yard	Yaro		Те	Test mode:			PC mode		
Test frequency:	150	50 kHz ~ 30 MHz			Phase:			Line		
Test voltage:	AC ²	120 V/60 H	łz	Er	Environment:			b: 22.5 ℃	Huni: 559	
80 Level (d	BuV)									
70 60 2								FCC PART15 E	B QP	
50								FCC PART15 B	AV	
30 20 10 0.15 .2 Trace: 5	MAN	.5	HelyWymdfran 1	2 Frequenc		5	10 10	Waydow and and and and a start of the second	30	
	Freq	Read Level	LISN Factor	Cable Loss	Level	Limit Line	Over Limit	Remark		
	MHz	dBu∛	<u>d</u> B	āB	 dBu∛		<u>d</u> B			
1	0.170	33.52 45.96		10.77 10.77	43.86 56.30		-11.08	Average QP		
1 2 3 4 5 6	0.114 0.214 0.222 0.350	41.45 28.32 35.27	-0.41	10.76 10.76 10.73	51.80 38.68 45.62	52.74	-11.25 -14.06 -13.34	QP Average		





2. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.

3. Final Level =Receiver Read level + LISN Factor + Cable Loss.



6.2 Radiated Emission

Test Requirement:	FCC Part 15 B S	ection 15.1	09			
Test Method:	ANSI C63.4:2014	1				
Test Frequency Range:	30MHz to 6000M	Hz				
Test site:	Measurement Dis	stance: 3m	(Sen	ni-Anechoic	Chamber)	
Receiver setup:	Frequency	Detecto	or	RBW	VBW	Remark
	30MHz-1GHz	Quasi-pe		120kHz	300kHz	Quasi-peak Value
	Above 1GHz	Peak		1MHz	3MHz	Peak Value
		RMS	Lim	1MHz nit (dBuV/m	3MHz	Average Value Remark
Limit:	Frequence 30MHz-88N		LIII	<u>и (ави v/m</u> 40.0	wom)	
	88MHz-216			40.0		Quasi-peak Value
	216MHz-960			43.5		Quasi-peak Value Quasi-peak Value
	960MHz-10			54.0		Quasi-peak Value
	90010112-10			<u> </u>		Average Value
	Above 1G	Hz		74.0		Peak Value
Test setup:	Below 1GHz	4m			Antenna Tower Search Antenna Test eiver	
	Turn Table Ground Plane — Above 1GHz	Im A	<u>е</u>			
	ROCM	Lable)		erence Plane	Antenna Towe	



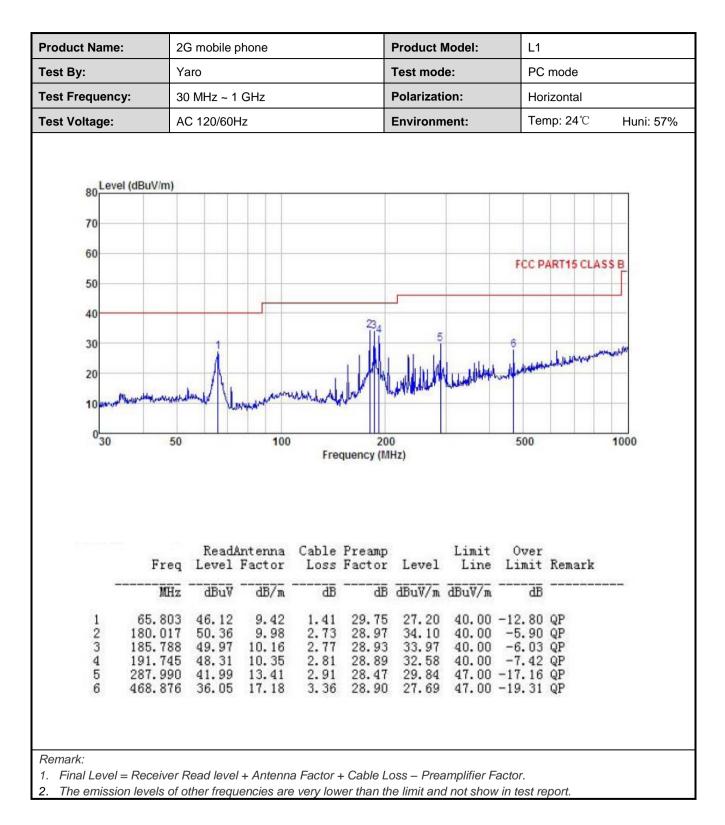
Test Procedure:	 the grou 360 deg 2. The EU antenna tower. 3. The ant ground horizont measur 4. For eac and the find the 5. The tess Specifie 6. If the er limit specifie 	rees to deter T was set 3 n a, which was n enna height is to determine tal and vertica ement. h suspected of n the antenna rotatable tab maximum rea t-receiver sys d Bandwidth nission level o ecified, then to	ter semi-ane mine the pos neters away f mounted on t s varied from the maximun al polarization emission, the a was tuned t le was turned ading. tem was set with Maximu of the EUT in esting could b	choic cambe ition of the hi from the inter he top of a va- one meter to value of the s of the anter EUT was ar o heights from from 0 degr to Peak Dete m Hold Mode peak mode be stopped a	r. The table ighest radia ference-re ariable-heig o four mete e field stren enna are se ranged to i m 1 meter f rees to 360 ect Function e. was 10dB I nd the pea	e was rotated ation. ceiving ght antenna rs above the gth. Both t to make the ts worst case to 4 meters degrees to n and ower than the
	10dB m		be re-tested o	ne by one us	sing peak, o	quasi-peak or
Test environment:	Temp.:	24 °C	Humid.:	57%	Press.:	1 01kPa
Test Instruments:	Refer to se	ection 5.9 for	details			
Test mode:	Refer to se	ection 5.3 for	details			
Test results:	Passed					
Remark:	All of the on no recorde		ue above 6G	Hz ware the	niose floo	r, which were



Measurement Data:

	2G	mobile pł	none		Pre	oduct Mo	del:	L1		
est By:	Yaı	ro			Те	st mode:		PC mode		
est Frequency:	30	30 MHz ~ 1 GHz				larization	Vertical			
est Voltage:	AC	120/60Hz	Z		En	vironmen	ıt:	Temp: 2	Huni: 57%	
80 Level (dBu) 70 60 50 40 30 20 10 0 30	//m)	Å	100	2 Frequen	3 200 cy (MHz)	45	6 6 500			
	Freq		Antenna Factor		Preamp Factor		Limit Line	Over Limit	Remark	
								āā		
	MHz	dBu∛	dB/m	dB	аb	dBuV/m	dBuV/m	ω.		







Above 1GHz:

oduct Nar	me:	2G mobile phone Product Model:				L1						
st By:		Yaro		Test mode:			PC	PC mode				
st Freque	ency:	1 GHz ~ 6	GHz			Polarization:			Vertical			
st Voltage	e:	AC 120/60)Hz		Environment:			Tem	າp: 24℃	Huni: 57		
70	vel (dBuV/m							F	CC PART 15	i (PK)		
60								F	CC PART 15	(AV)		
50								1	3	5 mm		
40					and and the second	references and a second	Approximate	2	+	Ĩ		
30***	manumante	and the start of the	And have under	armalianta da da								
									-			
20												
20 10												
	00 1200	1500		2000 Fre	equency (N	IHz)			5000	6000		
10	Fre	Read/ 1 Level	Antenna Factor	Fro Cable Loss	Preamp Factor	Level			5000 Remark	6000		
10	- 200	Read/ 1 Level	Antenna Factor	Fro Cable Loss	Preamp Factor		Line			6000		



Product Name	: 20	6 mobile pł	none		Pi	oduct Mo	del:	L1			
Гest By:	Ya	ro			Те	Test mode:			PC mode		
Test Frequenc	y: 1 (1 GHz ~ 6 GHz			P	Polarization:			Horizontal		
Test Voltage:	AC	C 120/60Hz	<u>Z</u>		E	nvironme	nt:	Temp	Huni: 57%		
80 Level	l (dBuV/m)			1		1		FCC	PART 15 (F		
70								ru	PARTIS	-nj	
60								FCC	PART 15 (4	AV)	
50								1	3	Arm	
40				in a start		human	ntimetership	nal humana	-	5	
30	whenever	advent human	en cinter anti-	nyananana	WAY AND A						
20											
10										-	
10 0 1000	1200	1500	2	000					5000	6000	
0	1200			Freq	uency (MH) Preamp		Limit	Over	5000	6000	
0		ReadA	2 Antenna Factor	Freq Cable	Preamp			Over Limit		6000	
0		ReadA	Intenna	Freq Cable	Preamp Factor		Line			6000	
0 <mark>1000</mark>	Freq MHz 4103.771 4103.771	Read# Level dBuV 47.45 39.45	antenna Factor <u>dB/m</u> 30.32 30.32	Freq Cable Loss dB 6.25 6.25	Preamp Factor dB 41.81 41.81	Level dBuV/m 44.44 36.44	Line dBuV/m 74.00 54.00	Limit dB -29.56 -17.56	Remark Peak Average		
01000	Freq MHz 4103.771	Read# Level dBuV 47.45	Intenna Factor dB/m 30.32	Freq Cable Loss dB 6.25 6.25 6.86 6.86	Preamp Factor dB 41.81 41.81 41.84 41.84	Level dBuV/m 44.44 36.44 45.83 37.84	Line dBuV/m 74.00 54.00 74.00 54.00	Limit -29.56 -17.56 -28.17 -16.16	Remark Peak Average Peak Average		
0 1000	Freq MHz 4103.771 4103.771 4882.743	Read# Level dBuV 47.45 39.45 47.16 39.17	Antenna Factor dB/m 30.32 30.32 31.18	Freq Cable Loss dB 6.25 6.25 6.86 6.86	Preamp Factor dB 41.81 41.81 41.84	Level dBuV/m 44.44 36.44 45.83 37.84	Line dBuV/m 74.00 54.00 74.00 54.00	Limit -29.56 -17.56 -28.17 -16.16	Remark Peak Average Peak Average	 2	