EMC TEST REPORT



Report No.: 16070174-FCC-E
Supersede Report No.:N/A

Applicant	SWAGTEK			
Product Name	4.5 inch Sn	4.5 inch Smart Phone		
Model No.	X4.5 LITE			
Serial No.	SPARK, U	IM450		
Test Standard	FCC Part 1	5 Subpart B Class B:2015, A	NSI C63.4: 2014	
Test Date	Feb 25 to N	March 27,2016		
Issue Date	April 08, 20	April 08, 2016		
Test Result	Pass Fail			
Equipment complied with the specification				
Equipment did not comply with the specification				
Winnie.Z	Winnie Zheng David Huang			
Winnie Zh	ang	David Huang		
Test Engineer		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
16070174-FCC-E	NONE	Original	March 28, 2016
16070174-FCC-E	V1	Change product name	April 08, 2016

2. Customer information

Applicant Name	SWAGTEK
Applicant Add	10205 NW19th Street,STE101,Miami, Florida, 33172, United States
Manufacturer	SWAGTEK
Manufacturer Add	10205 NW19th Street,STE101,Miami, Florida, 33172, United States

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

Main Model: X4.5 LITE

Serial Model: SPARK, UM450

GSM850: -1.5 dBi PCS1900: 1.2dBi

UMTS-FDD Band V:-1.2dBi
UMTS-FDD Band IV:1.8 dBi

Antenna Gain:

UMTS-FDD Band II: 1.9dBi

Bluetooth/BLE: 2.1dBi

WIFI:2.5dBi GPS:1.5dBi

Adapter: Model: N/A

Input: AC 100-240V; 50/60Hz;0.2A

Output: DC 5.0V,700mA

Input Power: Battery:

Model: N/A

Capacity: 1700mAh Related Voltage:3.7V

Equipment Category: JBP

GSM / GPRS: GMSK

UMTS-FDD: QPSK, 16QAM 802.11b/g/n: DSSS, OFDM

Type of Modulation:

Bluetooth: GFSK, π /4DQPSK, 8DPSK

BLE: GFSK GPS:BPSK



Number of Channels:

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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 IV TX:1712.4 ~ 1752.6 MHz;

RX: 2112.4 ~ 2152.6 MHz

RF Operating Frequency (ies): UMTS-FDD Band II TX:1852.4 ~ 1907.6 MHz;

RX: 1932.4 ~ 1987.6 MHz

WIFI:802.11b/g/n(20M): 2412-2462 MHz WIFI:802.11n(40M): 2422-2452 MHz Bluetooth& BLE: 2402-2480 MHz

GPS RX:1575.42 MHz

GSM 850: 124CH PCS1900: 299CH

UMTS-FDD Band V : 102CH UMTS-FDD Band IV: 202CH UMTS-FDD Band II : 277CH

WIFI :802.11b/g/n(20M): 11CH WIFI :802.11n(40M): 7CH

Bluetooth: 79CH

BLE: 40CH GPS:1CH

Port: Power Port, Earphone Port, USB Port

Trade Name: LOGIC, ISWAG, UNONU

FCC ID: 055-45012

Date EUT received: Feb 24, 2016

Test Date(s): Feb 25 to March 27, 2016



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5. Test Summary

The product was tested in accordance with the following specifications.

All testing has been performed according to below product classification:

FCC Rules	Description of Test	Result	
§15.107; ANSI C63.4: 2014	AC Power Line Conducted Emissions	Compliance	
§15.109; ANSI C63.4: 2014	Radiated Emissions	Compliance	

Measurement Uncertainty

Emissions				
Test Item Description Uncer				
Band Edge and Radiated Spurious Emissions	Confidence level of approximately 95% (in the case where distributions are normal), with a coverage factor of 2 (for EUTs < 0.5m X 0.5m X 0.5m)	+5.6dB/-4.5dB		
-	-	-		



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6. Measurements, Examination And Derived Results

6.1 AC Power Line Conducted Emissions

Temperature	23°C		
Relative Humidity	52%		
Atmospheric Pressure	1010mbar		
Test date :	March 10, 2016		
Tested By:	Winnie Zhang		

Requirement(s):

Spec	Item	Requirement Applicable					
47CFR§15.	For Low-power radio-frequency devices that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies, within the band 150 kHz to 30 MHz, shall not exceed the limits in the following table, as measured using a 50 [mu] H/50 ohms line impedance stabilization network (LISN). The lower limit applies at the boundary between the frequencies ranges.				(
107		Frequency ranges	Limit (
		(MHz)	QP	Average			
		0.15 ~ 0.5	66 – 56	56 – 46			
		0.5 ~ 5	56	46			
		5 ~ 30	60	50			
Test Setup		Vertical Ground Reference Plane EUT ### Receiver ### Receiver ### Receiver ### Receiver ### Receiver ### Receiver					
Procedure	the	e EUT and supporting ed standard on top of a 1.5 e power supply for the El ered mains.	im x 1m x 0.8m high, n	on-metallic table.			



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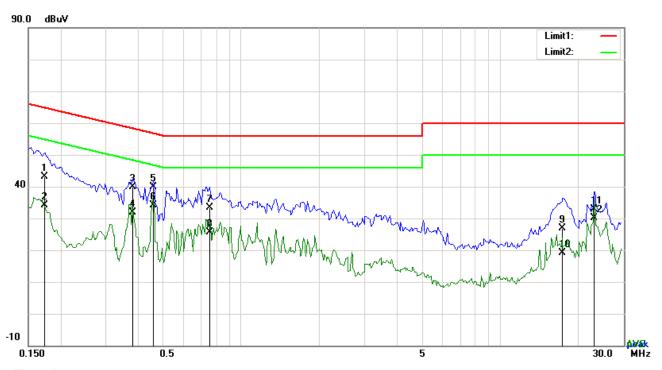
	3. The RF OUT of the EUT LISN was connected to the EMI test receiver via a low-loss
	coaxial cable.
	4. All other supporting equipment were powered separately from another main supply.
	5. The EUT was switched on and allowed to warm up to its normal operating condition.
	6. A scan was made on the NEUTRAL line (for AC mains) or Earth line (for DC power)
	over the required frequency range using an EMI test receiver.
	7. High peaks, relative to the limit line, The EMI test receiver was then tuned to the
	selected frequencies and the necessary measurements made with a receiver bandwidth
	setting of 10 kHz.
	8. Step 7 was then repeated for the LIVE line (for AC mains) or DC line (for DC power).
Remark	
Result	Pass Fail

Test Data	Yes	□ _{N/A}
Test Plot	Yes (See below)	□ _{N/A}



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Test Mode: USB Mode



Test Data

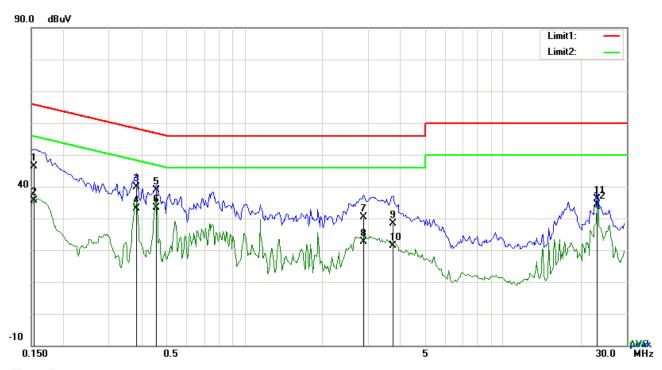
Phase Line Plot at 120Vac, 60Hz

No.	P/L	Frequency	Reading	Detector	Corrected	Result	Limit	Margin
		(MHz)	(dBuV)		(dB)	(dBuV)	(dBuV)	(dB)
1	L1	0.1734	30.02	QP	13.11	43.13	64.80	-21.67
2	L1	0.1734	21.07	AVG	13.11	34.18	54.80	-20.62
3	L1	0.3801	27.58	QP	12.35	39.93	58.28	-18.35
4	L1	0.3801	19.57	AVG	12.35	31.92	48.28	-16.36
5	L1	0.4581	27.70	QP	12.06	39.76	56.73	-16.97
6	L1	0.4581	22.04	AVG	12.06	34.10	46.73	-12.63
7	L1	0.7545	21.80	QP	11.65	33.45	56.00	-22.55
8	L1	0.7545	13.86	AVG	11.65	25.51	46.00	-20.49
9	L1	17.4534	12.37	QP	14.62	26.99	60.00	-33.01
10	L1	17.4534	4.49	AVG	14.62	19.11	50.00	-30.89
11	L1	23.1279	18.16	QP	14.69	32.85	60.00	-27.15
12	L1	23.1279	15.53	AVG	14.69	30.22	50.00	-19.78



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Test Mode: USB Mode



Test Data

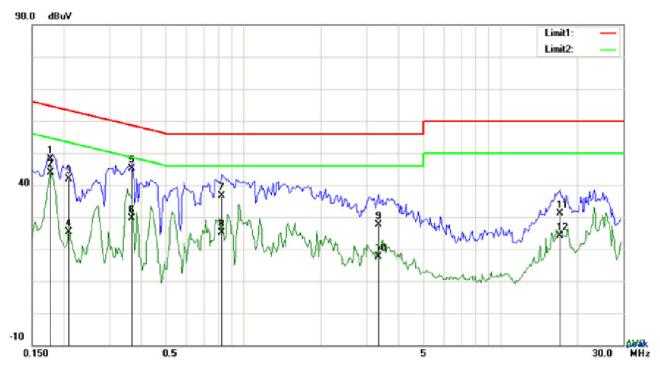
Phase Neutral Plot at 120Vac, 60Hz

No.	P/L	Frequency	Reading	Detector	Corrected	Result	Limit	Margin
		(MHz)	(dBuV)		(dB}	(dBuV)	(dBuV)	(dB)
1	N	0.1539	33.14	QP	13.19	46.33	65.79	-19.46
2	N	0.1539	22.46	AVG	13.19	35.65	55.79	-20.14
3	N	0.3840	27.56	QP	12.33	39.89	58.19	-18.30
4	N	0.3840	20.89	AVG	12.33	33.22	48.19	-14.97
5	N	0.4581	26.76	QP	12.06	38.82	56.73	-17.91
6	N	0.4581	21.21	AVG	12.06	33.27	46.73	-13.46
7	N	2.8917	18.85	QP	11.64	30.49	56.00	-25.51
8	N	2.8917	11.00	AVG	11.64	22.64	46.00	-23.36
9	N	3.7566	16.66	QP	11.74	28.40	56.00	-27.60
10	N	3.7566	9.61	AVG	11.74	21.35	46.00	-24.65
11	N	23.1279	19.72	QP	16.29	36.01	60.00	-23.99
12	Ν	23.1279	18.04	AVG	16.29	34.33	50.00	-15.67



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Test Mode : USB Mode



Test Data

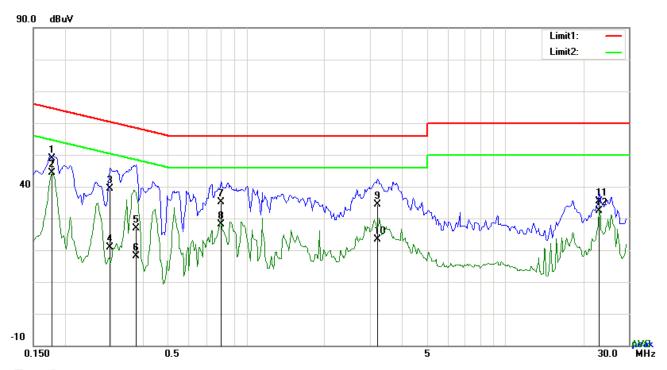
Phase Line Plot at 240Vac, 60Hz

No.	P/L	Frequency	Reading	Detector	Corrected	Result	Limit	Margin
		(MHz)	(dBuV)		(dB)	(dBuV)	(dBuV)	(dB)
1	L1	0.1773	34.96	QP	13.10	48.06	64.61	-16.55
2	L1	0.1773	30.82	AVG	13.10	43.92	54.61	-10.69
3	L1	0.2085	29.02	QP	12.98	42.00	63.26	-21.26
4	L1	0.2085	12.36	AVG	12.98	25.34	53.26	-27.92
5	L1	0.3684	32.71	QP	12.39	45.10	58.54	-13.44
6	L1	0.3684	17.34	AVG	12.39	29.73	48.54	-18.81
7	L1	0.8247	25.09	QP	11.58	36.67	56.00	-19.33
8	L1	0.8247	13.49	AVG	11.58	25.07	46.00	-20.93
9	L1	3.3510	16.19	QP	11.40	27.59	56.00	-28.41
10	L1	3.3510	6.21	AVG	11.40	17.61	46.00	-28.39
11	L1	17.0088	16.64	QP	14.53	31.17	60.00	-28.83
12	L1	17.0088	9.54	AVG	14.53	24.07	50.00	-25.93



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Test Mode : USB Mode



Test Data

Phase Neutral Plot at 240Vac, 60Hz

No.	P/L	Frequency	Reading	Detector	Corrected	Result	Limit	Margin
		(MHz)	(dBuV)		(dB)	(dBuV)	(dBuV)	(dB)
1	N	0.1773	35.78	QP	13.10	48.88	64.61	-15.73
2	N	0.1773	31.19	AVG	13.10	44.29	54.61	-10.32
3	N	0.2982	26.62	QP	12.65	39.27	60.29	-21.02
4	N	0.2982	8.20	AVG	12.65	20.85	50.29	-29.44
5	N	0.3762	14.57	QP	12.36	26.93	58.36	-31.43
6	N	0.3762	5.81	AVG	12.36	18.17	48.36	-30.19
7	N	0.7974	23.62	QP	11.60	35.22	56.00	-20.78
8	N	0.7974	16.63	AVG	11.60	28.23	46.00	-17.77
9	N	3.2184	22.73	QP	11.68	34.41	56.00	-21.59
10	N	3.2184	11.77	AVG	11.68	23.45	46.00	-22.55
11	N	23.1279	19.03	QP	16.29	35.32	60.00	-24.68
12	N	23.1279	16.08	AVG	16.29	32.37	50.00	-17.63



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6.2 Radiated Emissions

Temperature	24°C
Relative Humidity	53%
Atmospheric Pressure	1011mbar
Test date :	March 11, 2016
Tested By :	Winnie Zhang

Requirement(s):

Spec	Item	Requirement Applicable				
47CFR§15. 109(d)	a)	Except higher limit as specified else emissions from the low-power radio exceed the field strength levels spethe level of any unwanted emission the fundamental emission. The tight edges Frequency range (MHz) 30 - 88 88 - 216 216 960	p-frequency devices shall not ecified in the following table and s shall not exceed the level of	Y		
		Above 960	500			
Test Setup		Ant. Tower Support Units Ground Plane Test Receiver				
Procedure 1. The EUT was switched on and allowed to warm of the test was carried out at the selected frequency characterization. Maximization of the emissions, changing the antenna polarization, and adjusting manner: a. Vertical or horizontal polarization (whicher			ed frequency points obtained from emissions, was carried out by rot dadjusting the antenna height in	the EUT ating the EUT, the following		



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_							
		over a full rotation of the EUT) was chosen.					
	b.	The EUT was then rotated to the direction that gave the maximum					
		emission.					
	C.	Finally, the antenna height was adjusted to the height that gave the maximum					
		emission.					
	3. The re	solution bandwidth and video bandwidth of test receiver/spectrum analyzer is					
	120 kH	Hz for Quasiy Peak detection at frequency below 1GHz.					
	4. The res	solution bandwidth of test receiver/spectrum analyzer is 1MHz and video					
	bandw	ridth is 3MHz with Peak detection for Peak measurement at frequency above					
	1GHz.						
	The r	esolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video					
	band	width with Peak detection for Average Measurement as below at frequency					
	above	1GHz.					
	■ 1 k	Hz (Duty cycle < 98%) □ 10 Hz (Duty cycle > 98%)					
	5. Steps	2 and 3 were repeated for the next frequency point, until all selected frequency					
	points	were measured.					
Remark							
Remark							
Result	Pass	Fail					
E	4						
Test Data	Yes	N/A					
Test Plot	Yes (See belo	ow) $\square_{N/A}$					
	(- <i>,</i>					



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Test Mode : USB Mode

Below 1GHz



Test Data

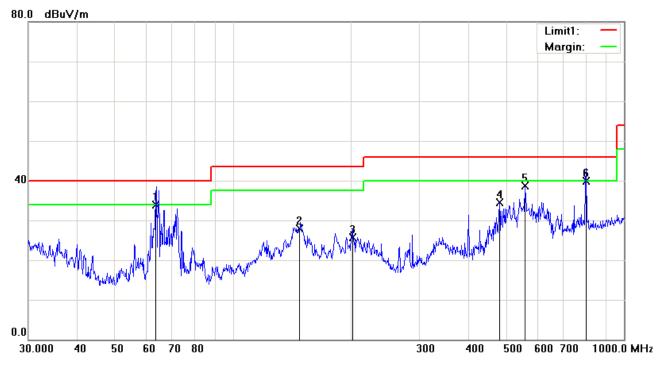
Horizontal Polarity Plot @3m

No.	P/L	Frequency	Readin g	Detector	Corrected	Result	Limit	Margin	Height	Degree
		(MHz)	(dBuV/ m)		(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	(cm)	(°)
1	Н	71.8320	43.37	peak	-13.66	29.71	40.00	-10.29	100	184
2	Н	191.7450	41.64	peak	-9.14	32.50	43.50	-11.00	100	225
3	Н	239.9873	40.16	peak	-9.10	31.06	46.00	-14.94	100	207
4	Н	277.0935	40.11	peak	-7.95	32.16	46.00	-13.84	100	225
5	Н	480.5276	31.85	peak	-2.23	29.62	46.00	-16.38	100	57
6	Н	801.7863	37.45	QP	3.23	40.68	46.00	-5.32	100	165



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Below 1GHz



Test Data

Vertical Polarity Plot @3m

No.	P/L	Frequency	Readin g	Detector	Corrected	Result	Limit	Margin	Height	Degree
		(MHz)	(dBuV/ m)		(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	(cm)	(°)
1	>	63.5356	47.94	QP	-14.08	33.86	40.00	-6.14	100	108
2	٧	147.9214	36.42	peak	-8.42	28.00	43.50	-15.50	100	273
3	٧	202.8104	34.38	peak	-8.76	25.62	43.50	-17.88	100	186
4	٧	480.5276	36.75	peak	-2.23	34.52	46.00	-11.48	100	358
5	٧	558.7302	39.46	peak	-0.67	38.79	46.00	-7.21	100	175
6	٧	801.7863	36.60	QP	3.23	39.83	46.00	-6.17	100	0

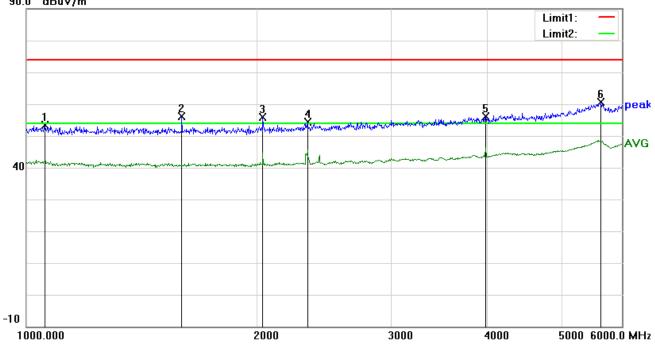


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Test Mode : USB Mode

Above 1GHz

90.0 dBuV/m



Test Data

Horizontal Polarity Plot @3m

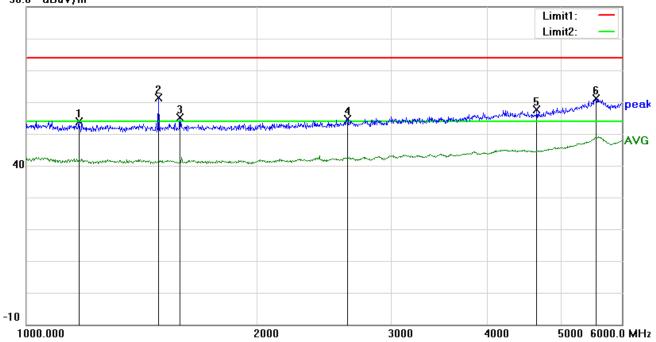
No.	P/L	Frequency	Readin g	Detector	Corrected	Result	Limit	Margin	Height	Degree
		(MHz)	(dBuV/ m)		(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	(cm)	(°)
1	Н	1057.116	49.87	peak	3.42	53.29	74.00	-20.71	100	49
2	Н	1596.237	51.86	peak	4.39	56.25	74.00	-17.75	100	35
3	Н	2036.695	50.65	peak	5.19	55.84	74.00	-18.16	100	109
4	Н	2329.632	48.59	peak	5.71	54.30	74.00	-19.70	100	172
5	Н	3980.656	47.40	peak	8.69	56.09	74.00	-17.91	100	188
6	Н	5635.286	49.05	peak	11.66	60.71	74.00	-13.29	100	213



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Above 1GHz





Test Data

Vertical Polarity Plot @3m

No.	P/L	Frequency	Readin g	Detector	Corrected	Result	Limit	Margin	Height	Degree
		(MHz)	(dBuV/ m)		(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	(cm)	(°)
1	V	1170.785	50.29	peak	3.63	53.92	74.00	-20.08	100	4
2	٧	1488.503	57.29	peak	4.20	61.49	74.00	-12.51	100	185
3	٧	1587.680	50.82	peak	4.38	55.20	74.00	-18.80	100	178
4	٧	2626.779	48.40	peak	6.25	54.65	74.00	-19.35	100	15
5	V	4643.823	47.63	peak	9.88	57.51	74.00	-16.49	100	119
6	٧	5555.086	49.72	peak	11.52	61.24	74.00	-12.76	100	108



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Annex A. TEST INSTRUMENT

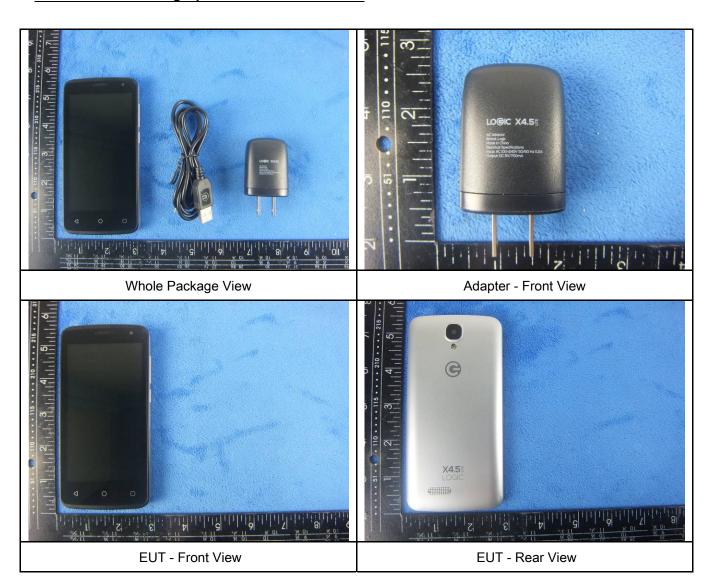
Instrument	Model	Serial#	Cal Date	Cal Due	In use		
AC Line Conducted Emissions							
EMI test receiver	ESCS30	8471241027	09/17/2015	09/16/2016	~		
Line Impedance Stabilization Network	LI-125A	191106	09/25/2015	09/24/2016	V		
Line Impedance Stabilization Network	LI-125A	191107	09/25/2015	09/24/2016	S		
LISN	ISN T800	34373	09/25/2015	09/24/2016	~		
Transient Limiter	LIT-153	531118	09/01/2015	08/31/2016	~		
Radiated Emissions							
EMI test receiver	ESL6	100262	09/17/2015	09/16/2016	~		
OPT 010 AMPLIFIER (0.1-1300MHz)	8447E	2727A02430	09/01/2015	08/31/2016	V		
Microwave Preamplifier (1 ~ 26.5GHz)	8449B	3008A02402	03/25/2015	03/24/2016	V		
Bilog Antenna (30MHz~6GHz)	JB6	A110712	09/21/2015	09/20/2016	V		
Double Ridge Horn Antenna	AH-118	71259	09/24/2015	09/23/2016	V		



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Annex B. EUT And Test Setup Photographs

Annex B.i. Photograph: EUT External Photo

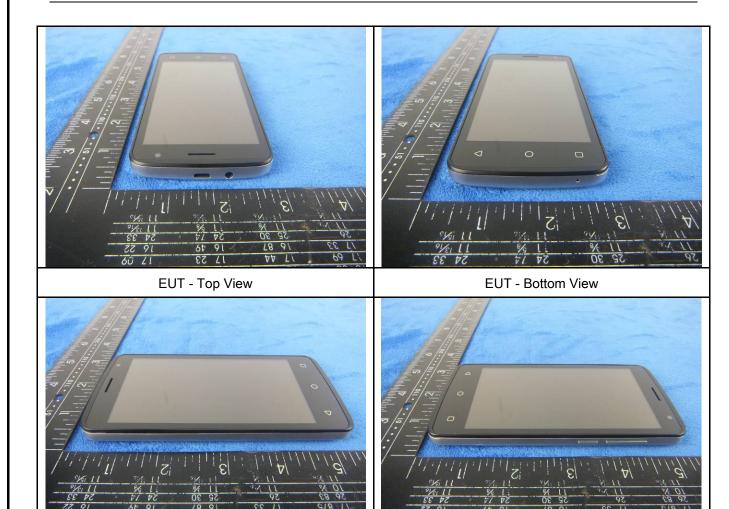




EUT - Left View

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EUT - Right View





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Annex B.ii. Photograph: EUT Internal Photo





Cover Off - Top View 1

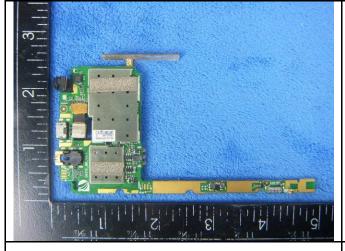
Cover Off - Top View 2





Battery - Front View

Battery - Rear View



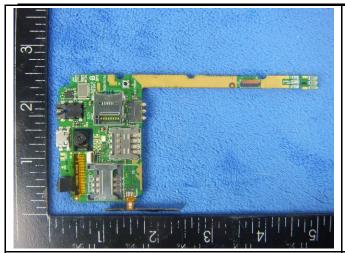
Mainbard with Shielding - Front View



Mainbard without Shielding- Front View



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Mainbard without Shielding - Rear View

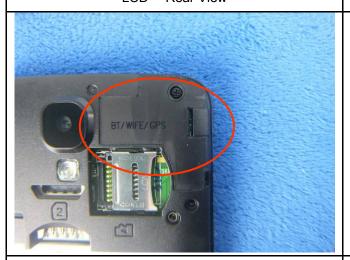
LCD - Front View





LCD - Rear View

GSM/PCS/UMTS-FDD Antenna View



BT/BLE/WIFI/GPS - Antenna View



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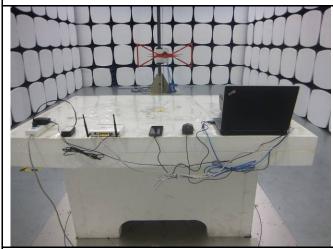
Annex B.iii. Photograph: Test Setup Photo



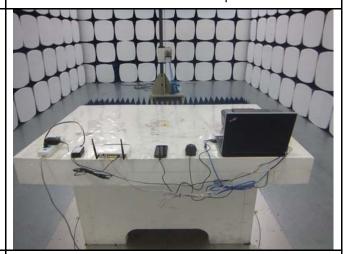
Conducted Emissions Test Setup - Front View



Conducted Emissions Test Setup - Side View



Radiated Emissions Test Setup Below 1GHz



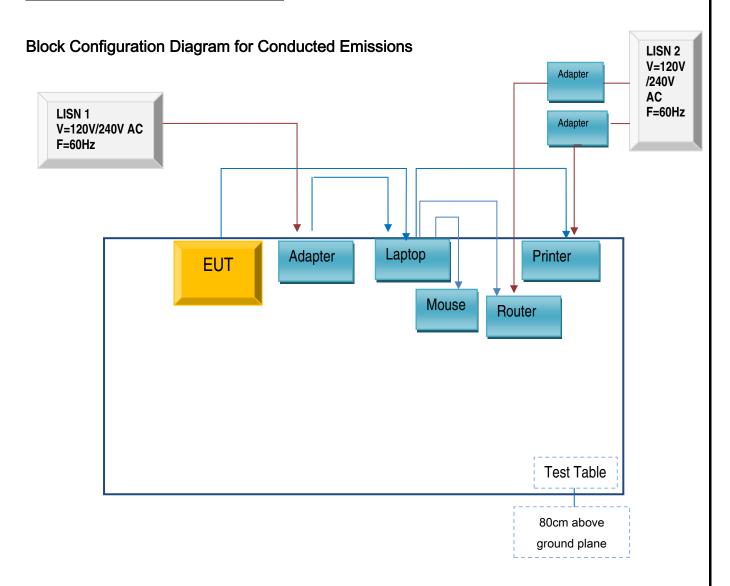
Radiated Emissions Test Setup Above 1GHz



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Annex C. TEST SETUP AND SUPPORTING EQUIPMENT

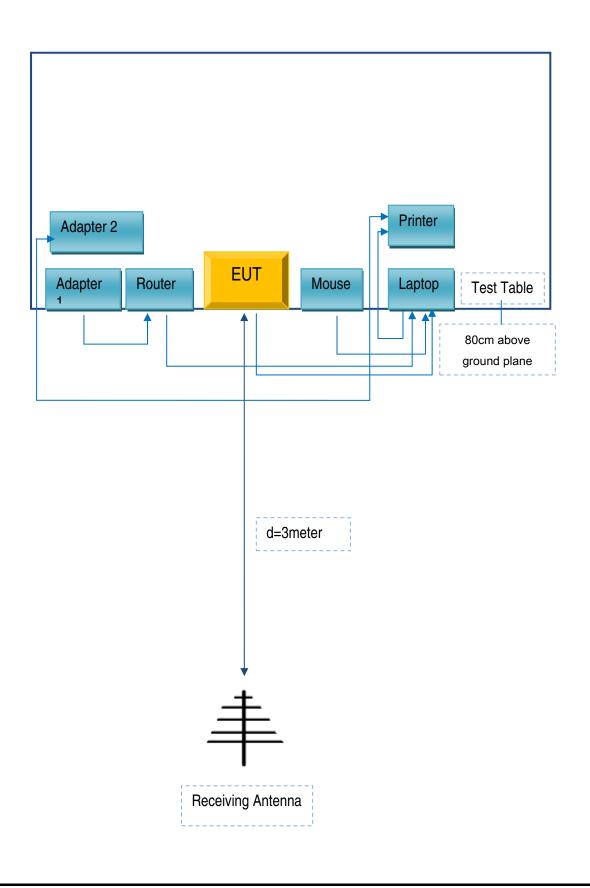
Annex C.ii. TEST SET UP BLOCK





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Block Configuration Diagram for Radiated Emissions





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Annex C. il. SUPPORTING EQUIPMENT DESCRIPTION

The following is a description of supporting equipment and details of cables used with the EUT.

Supporting Equipment:

Manufacturer	Equipment Description	Model	Serial No
Lenovo	Laptop	E40	LR-1EHRX
GOLDWEB	Router	R102	1202032094
HP	Printer	VCVRA-1003	CN36M19JWX
SWAGTEK	Adapter	N/A	N/A
DELL	Mouse	E100	912NMTUT41481

Supporting Cable:

Cable type	Shield Type	Ferrite Core	Length	Serial No
USB Cable	Un-shielding	No	0.8m	JX1502736
USB Cable	Un-shielding	No	2m	JX110725002
RJ45 Cable	Un-shielding	No	2m	KX156327541
Router Power cable	Un-shielding	No	2m	13274630Z
Printer Power cable	Un-shielding	No	2m	127581031



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Annex D. User Manual / Block Diagram / Schematics / Partlist

N/A



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Annex E. DECLARATION OF SIMILARITY

Swagtek

ADD: 10205 NW 19th Street, STE101, Miami, FL, 33172, USA

Tel: 305 421 9938 Fax: 305 471 9011

DECLARATION OF SIMILARITY

Date: 2016-2-26

Dear Sir or Madam:

We, Swagtek, hereby declare that product: 4.5" Smart Phone, model X4.5 LITE is electrically identical with the models: Spark and UM450, which was tested by Siemic with the same electromagnetic emissions and electromagnetic compatibility characteristics. The results of which are featured in Siemic projects: 16070174.

A description of the difference between the three models and those that are declared similar are as follows:

They are the same product, and just have the different model name, the rest are the same.

Please contact me should there be need for any additional clarification or information.

Best Regards,

Charles Cheng Manager