EMC TEST REPORT



Report No.: 15070467-FCC-E

| Applicant | Swagtek | | | |
|---|--------------------------|--|--|--|
| Product Name | Smart Phone | | | |
| Model No. | IS-B1102 | IS-B1102 | | |
| Serial No. | DU-1B011E | DU-1B011B | | |
| Test Standard | FCC Part 1 | FCC Part 15 Subpart B Class B:2014, ANSI C63.4: 2014 | | |
| Test Date | June 20 to June 27, 2015 | | | |
| Issue Date | June 27, 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 | | David Huang Checked 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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1. Report Revision History

| Report No. | Report Version | Description | Issue Date |
|----------------|----------------|-------------|---------------|
| 15070467-FCC-E | NONE | Original | June 27, 2015 |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

2. Customer information

| Applicant Name | Swagtek |
|------------------|---|
| Applicant Add | 10205 NW 19th Street, STE101, Miami, FL 33172 USA |
| Manufacturer | Swagtek |
| Manufacturer Add | 10205 NW 19th Street, STE101, Miami, FL 33172 USA |

3. Test site information

| | 1 | |
|----------------------|---|--|
| 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: | Smart Phone |
|-------------------------------|---|
| Main Model: | IS-B1102 |
| Serial Model: | DU-1B011B |
| Date EUT received: | June 19, 2015 |
| Test Date(s): | June 20 to June 27, 2015 |
| Equipment Category : | JBP |
| Antenna Gain: | GSM850: 0.07 dBi PCS1900:0.58 dBi Bluetooth:0.51 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 |



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Battery:

Model: IS-B1102

Spec: 3.7V 800mAh 2.96Wh

Input Power: Adapter:

Model: IS-B1102

Input: AC 100-240V; 50/60Hz 150mA

Output: DC 5.0V; 500mA

Trade Name: iSwag Shark , Duo Shark

GPRS/EGPRS Multi-slot class 8/10/12

FCC ID: 055B110X2



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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 Uncertainty | | | | | |
| 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 | 25°C |
|----------------------|---------------|
| Relative Humidity | 52% |
| Atmospheric Pressure | 1026mbar |
| Test date : | June 26, 2015 |
| Tested By: | Winnie Zhang |

Requirement(s):

| Spec | Item | Requirement | | | | | | |
|------------|--|------------------|-----------------------------|---------------|----------|--|--|--|
| 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. | | | | V | | | |
| 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 | | | scal Ground Frence Plane | Test Receiver | | | | |
| | | | | | | | | |
| Procedure | The EUT and supporting equipment were set up in accordance with the requirements of the standard on top of a 1.5m x 1m x 0.8m high, non-metallic table. The power supply for the EUT was fed through a 50W/50mH EUT LISN, connected to filtered mains. | | | | | | | |



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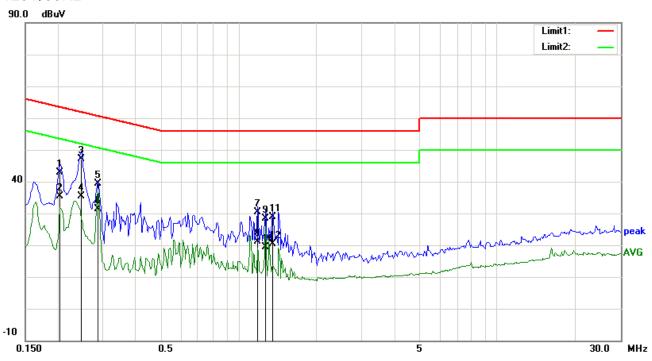
| | 3. The RF OUT of the EUT LISN was connected to the EMI test receiver via a low-loss |
|--------|---|
| | coaxial cable. |
| | 4. All other supporting equipment were powered separately from another main supply. |
| | 5. The EUT was switched on and allowed to warm up to its normal operating condition. |
| | 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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120V/60Hz



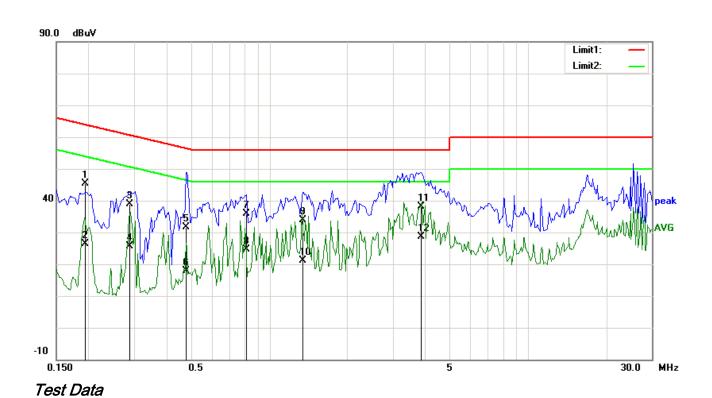
Test Data

Phase Line Plot at 120Vac, 60Hz

| No. | P/L | Frequency | Reading | Detector | Corrected | Result | Limit | Margin | Comment |
|-----|-----|-----------|---------|----------|-----------|--------|--------|--------|---------|
| | | | | | | | | | |
| | | (MHz) | (dBuV) | | (dB} | (dBuV) | (dBuV) | (dB) | |
| 1 | L1 | 0.2047 | 29.97 | QP | 13.00 | 42.97 | 63.42 | -20.45 | |
| 2 | L1 | 0.2047 | 22.48 | AVG | 13.00 | 35.48 | 53.42 | -17.94 | |
| 3 | L1 | 0.2477 | 34.39 | QP | 12.84 | 47.23 | 61.83 | -14.60 | |
| 4 | L1 | 0.2477 | 22.43 | AVG | 12.84 | 35.27 | 51.83 | -16.56 | |
| 5 | L1 | 0.2867 | 26.65 | QP | 12.69 | 39.34 | 60.62 | -21.28 | |
| 6 | L1 | 0.2867 | 18.69 | AVG | 12.69 | 31.38 | 50.62 | -19.24 | |
| 7 | L1 | 1.1891 | 18.92 | QP | 11.42 | 30.34 | 56.00 | -25.66 | |
| 8 | L1 | 1.1891 | 9.75 | AVG | 11.42 | 21.17 | 46.00 | -24.83 | |
| 9 | L1 | 1.2711 | 16.98 | QP | 11.43 | 28.41 | 56.00 | -27.59 | |
| 10 | L1 | 1.2711 | 7.94 | AVG | 11.43 | 19.37 | 46.00 | -26.63 | |
| 11 | L1 | 1.3531 | 17.36 | QP | 11.44 | 28.80 | 56.00 | -27.20 | |
| 12 | L1 | 1.3531 | 8.83 | AVG | 11.44 | 20.27 | 46.00 | -25.73 | |



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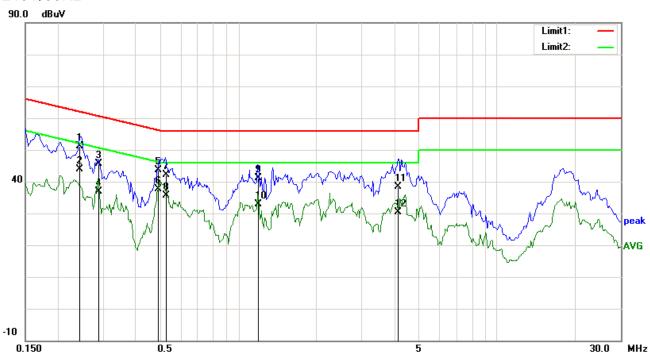
Phase Neutral Plot at 120Vac, 60Hz

| No. | P/L | Frequency | Reading | Detector | Corrected | Result | Limit | Margin | Comment |
|-----|-----|-----------|---------|----------|-----------|--------|--------|--------|---------|
| | | (MHz) | (dBuV) | | (dB} | (dBuV) | (dBuV) | (dB) | |
| 1 | N | 0.1930 | 32.45 | QP | 13.04 | 45.49 | 63.91 | -18.42 | |
| 2 | N | 0.1930 | 13.27 | AVG | 13.04 | 26.31 | 53.91 | -27.60 | |
| 3 | N | 0.2878 | 26.15 | QP | 12.69 | 38.84 | 60.59 | -21.75 | |
| 4 | N | 0.2878 | 12.90 | AVG | 12.69 | 25.59 | 50.59 | -25.00 | |
| 5 | N | 0.4781 | 19.54 | QP | 11.98 | 31.52 | 56.37 | -24.85 | |
| 6 | N | 0.4781 | 5.95 | AVG | 11.98 | 17.93 | 46.37 | -28.44 | |
| 7 | N | 0.8141 | 24.37 | QP | 11.59 | 35.96 | 56.00 | -20.04 | |
| 8 | N | 0.8141 | 13.06 | AVG | 11.59 | 24.65 | 46.00 | -21.35 | |
| 9 | N | 1.3492 | 22.39 | QP | 11.44 | 33.83 | 56.00 | -22.17 | |
| 10 | N | 1.3492 | 9.71 | AVG | 11.44 | 21.15 | 46.00 | -24.85 | |
| 11 | N | 3.8603 | 26.45 | QP | 11.76 | 38.21 | 56.00 | -17.79 | |
| 12 | N | 3.8603 | 16.87 | AVG | 11.76 | 28.63 | 46.00 | -17.37 | |



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240V/60Hz



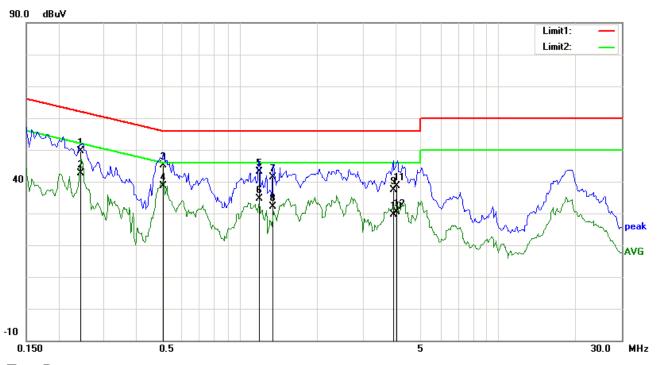
Test Data

Phase Line Plot at 120Vac, 60Hz

| No. | P/L | Frequency | Reading | Detector | Corrected | Result | Limit | Margin | Comment |
|-----|-----|-----------|---------|----------|-----------|--------|--------|--------|---------|
| | | (MHz) | (dBuV) | | (dB} | (dBuV) | (dBuV) | (dB) | |
| 1 | L1 | 0.2437 | 38.38 | QP | 12.85 | 51.23 | 61.97 | -10.74 | |
| 2 | L1 | 0.2437 | 31.01 | AVG | 12.85 | 43.86 | 51.97 | -8.11 | |
| 3 | L1 | 0.2878 | 32.89 | QP | 12.69 | 45.58 | 60.59 | -15.01 | |
| 4 | L1 | 0.2878 | 24.20 | AVG | 12.69 | 36.89 | 50.59 | -13.70 | |
| 5 | L1 | 0.4889 | 31.68 | QP | 11.94 | 43.62 | 56.19 | -12.57 | |
| 6 | L1 | 0.4889 | 25.58 | AVG | 11.94 | 37.52 | 46.19 | -8.67 | |
| 7 | L1 | 0.5289 | 30.17 | QP | 11.87 | 42.04 | 56.00 | -13.96 | |
| 8 | L1 | 0.5289 | 23.84 | AVG | 11.87 | 35.71 | 46.00 | -10.29 | |
| 9 | L1 | 1.1907 | 29.79 | QP | 11.40 | 41.19 | 56.00 | -14.81 | |
| 10 | L1 | 1.1907 | 21.41 | AVG | 11.40 | 32.81 | 46.00 | -13.19 | |
| 11 | L1 | 4.1563 | 27.05 | QP | 11.40 | 38.45 | 56.00 | -17.55 | |
| 12 | L1 | 4.1563 | 18.96 | AVG | 11.40 | 30.36 | 46.00 | -15.64 | |



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Test Data

Phase Neutral Plot at 120Vac, 60Hz

| | 1 11000 110001101 1100 00 1120 1100 110 | | | | | | | | |
|-----|---|-----------|---------|----------|-----------|--------|--------|--------|---------|
| No. | P/L | Frequency | Reading | Detector | Corrected | Result | Limit | Margin | Comment |
| | | (MHz) | (dBuV) | | (dB) | (dBuV) | (dBuV) | (dB) | |
| 1 | N | 0.2437 | 36.78 | QP | 12.85 | 49.63 | 61.97 | -12.34 | |
| 2 | N | 0.2437 | 29.73 | AVG | 12.85 | 42.58 | 51.97 | -9.39 | |
| 3 | N | 0.5094 | 33.12 | QP | 11.89 | 45.01 | 56.00 | -10.99 | |
| 4 | N | 0.5094 | 26.76 | AVG | 11.89 | 38.65 | 46.00 | -7.35 | |
| 5 | N | 1.1907 | 31.79 | QP | 11.42 | 43.21 | 56.00 | -12.79 | |
| 6 | N | 1.1907 | 23.16 | AVG | 11.42 | 34.58 | 46.00 | -11.42 | |
| 7 | N | 1.3492 | 30.04 | QP | 11.44 | 41.48 | 56.00 | -14.52 | |
| 8 | N | 1.3492 | 20.58 | AVG | 11.44 | 32.02 | 46.00 | -13.98 | |
| 9 | N | 3.9609 | 25.72 | QP | 11.77 | 37.49 | 56.00 | -18.51 | |
| 10 | N | 3.9609 | 17.97 | AVG | 11.77 | 29.74 | 46.00 | -16.26 | |
| 11 | N | 4.0489 | 26.96 | QP | 11.78 | 38.74 | 56.00 | -17.26 | |
| 12 | N | 4.0489 | 18.57 | AVG | 11.78 | 30.35 | 46.00 | -15.65 | |



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6.2 Radiated Emissions

| Temperature | 25°C |
|----------------------|---------------|
| Relative Humidity | 52% |
| Atmospheric Pressure | 1026mbar |
| Test date : | June 26, 2015 |
| Tested By: | Winnie Zhang |

Requirement(s):

| Spec | Item | Requirement | | Applicable | | |
|--|--|--|---------------------------|--------------------------------------|--|--|
| 47CFR§15. 107(d) | a) | Except higher limit as specified else emissions from the low-power radio exceed the field strength levels spet the level of any unwanted emission the fundamental emission. The tight edges Frequency range (MHz) | V | | | |
| | | 30 - 88 | Field Strength (μV/m) 100 | | | |
| | | 88 – 216 | 150 | | | |
| | | 216 960 | 200 | | | |
| | | Above 960 | 500 | | | |
| Test Setup | Ant. Tower Support Units Turn Table Ground Plane Test Receiver | | | | | |
| 1. The EUT was switched on and allowed to warm up to its normal operating condition 2. The test was carried out at the selected frequency points obtained from the EUT characterization. Maximization of the emissions, was carried out by rotating the EU changing the antenna polarization, and adjusting the antenna height in the following manner: a. Vertical or horizontal polarization (whichever gave the higher emission level) | | | | the EUT ating the EUT, the following | | |



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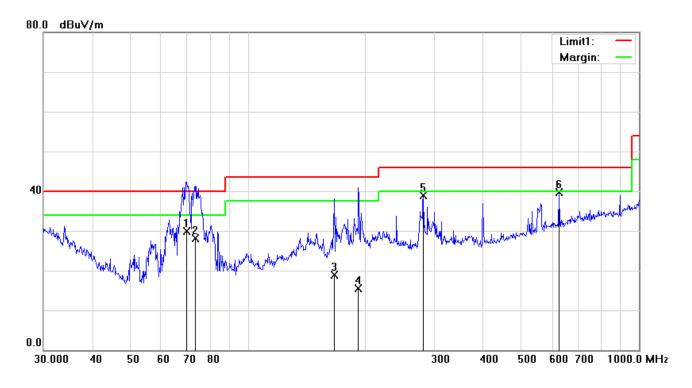
| | | | over a full rotation of the EUT) was chosen. |
|-----------|-------------|----------|--|
| | | b. | The EUT was then rotated to the direction that gave the maximum |
| | | | emission. |
| | | C. | Finally, the antenna height was adjusted to the height that gave the maximum |
| | | | emission. |
| | 3. | The res | solution bandwidth and video bandwidth of test receiver/spectrum analyzer is |
| | | 120 kH | z for Quasiy Peak detection at frequency below 1GHz. |
| | 4. | The res | olution bandwidth of test receiver/spectrum analyzer is 1MHz and video |
| | | bandwi | dth is 3MHz with Peak detection for Peak measurement at frequency above |
| | | 1GHz. | |
| | | The re | solution bandwidth of test receiver/spectrum analyzer is 1MHz and the video |
| | | bandw | vidth with Peak detection for Average Measurement as below at frequency |
| | | above | 1GHz. |
| | | ■ 1 kH | Hz (Duty cycle < 98%) □ 10 Hz (Duty cycle > 98%) |
| | 5. | Steps 2 | 2 and 3 were repeated for the next frequency point, until all selected frequency |
| | | points v | were measured. |
| Remark | | | |
| Result | ☑ Pa | SS | ☐ Fail |
| | | | |
| | 7 | | |
| Test Data | Yes | | N/A |
| Test Plot | Yes (S | ee belo | w) N/A |



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| Test Mode: |
|------------|
|------------|

Below 1GHz



Test Data

Horizontal Polarity Plot @3m

| No. | P/L | Frequency | Readin g | Detector | Corrected | Result | Limit | Margin | Height | Degree | Comme nt |
|-----|-----|-----------|--------------|----------|-----------|--------------|----------|--------|--------|--------|-------------|
| | | (MHz) | (dBuV/ m) | | (dB/m) | (dBuV/m) | (dBuV/m) | (dB) | (cm) | () | |
| 1 | Н | 69.7880 | 43.61 | QP | -13.61 | 30.00 | 40.00 | -10.00 | 200 | 0 | |
| 2 | Н | 73.2934 | 41.89 | QP | -13.69 | 28.20 | 40.00 | -11.80 | 200 | 0 | |
| 3 | Н | 166.0820 | 27.70 | QP | -8.78 | 18.92 | 43.50 | -24.58 | 200 | 0 | |
| 4 | Н | 192.1006 | 24.54 | QP | -9.12 | 15.42 | 43.50 | -28.08 | 200 | 0 | |
| 5 | Н | 281.0075 | 46.63 | peak | -7.77 | 38.86 | 46.00 | -7.14 | 150 | 20 | |
| 6 | Н | 625.0780 | 39.21 | peak | 0.42 | 39.63 | 46.00 | -6.37 | 150 | 158 | |

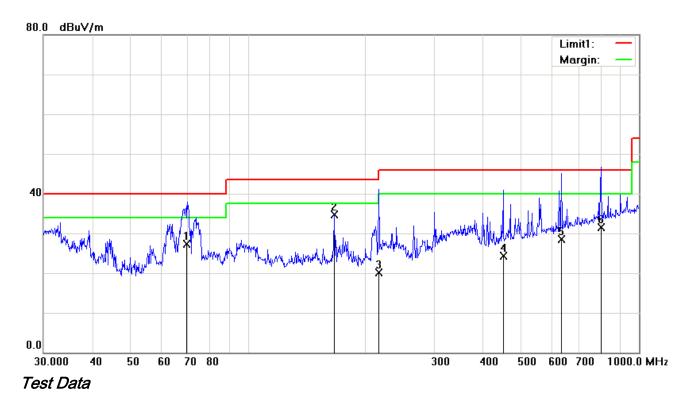
Above 1GHz

Note: The frequency that above 1GHz is mainly from the environment noise.



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Below 1GHz



Vertical Polarity Plot @3m

| No. | P/L | Frequency | Readin g | Detector | Corrected | Result | Limit | Margin | Height | Degree | Comme |
|-----|-----|-----------|--------------|----------|-----------|--------------|----------|--------|--------|--------|-------|
| | | (MHz) | (dBuV/ m) | | (dB/m) | (dBuV/m) | (dBuV/m) | (dB) | (cm) | () | |
| 1 | V | 69.8051 | 41.01 | QP | -13.61 | 27.40 | 40.00 | -12.60 | 100 | 0 | |
| 2 | V | 166.0680 | 43.44 | peak | -8.78 | 34.66 | 43.50 | -8.84 | 100 | 0 | |
| 3 | V | 215.9780 | 28.89 | QP | -8.88 | 20.01 | 43.50 | -23.49 | 100 | 0 | |
| 4 | V | 448.6727 | 27.36 | QP | -3.11 | 24.25 | 46.00 | -21.75 | 100 | 0 | |
| 5 | V | 634.7964 | 27.95 | QP | 0.57 | 28.52 | 46.00 | -17.48 | 100 | 0 | |
| 6 | V | 798.5461 | 28.31 | QP | 3.19 | 31.50 | 46.00 | -14.50 | 100 | 0 | |

Above 1GHz

Note: The frequency that above 1GHz is mainly from the environment noise.



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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 | 09/18/2014 | 09/17/2015 | ~ | |
| Line Impedance Stabilization Network | LI-125A | 191106 | 09/26/2014 | 09/25/2015 | \ | |
| Line Impedance Stabilization Network | LI-125A | 191107 | 09/26/2014 | 09/25/2015 | V | |
| LISN | ISN T800 | 34373 | 09/26/2014 | 09/25/2015 | ~ | |
| Transient Limiter | LIT-153 | 531118 | 09/02/2014 | 09/01/2015 | ~ | |
| Radiated Emissions | | | | | | |
| EMI test receiver | ESL6 | 100262 | 09/18/2014 | 09/17/2015 | < | |
| OPT 010 AMPLIFIER (0.1-1300MHz) | 8447E | 2727A02430 | 09/02/2014 | 09/01/2015 | <u>\</u> | |
| Microwave Preamplifier (1 ~ 26.5GHz) | 8449B | 3008A02402 | 03/25/2015 | 03/24/2016 | \ | |
| Bilog Antenna (30MHz~6GHz) | JB6 | A110712 | 09/22/2014 | 09/21/2015 | \ | |
| Double Ridge Horn Antenna | AH-118 | 71259 | 09/25/2014 | 09/24/2015 | > | |



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Annex B. EUT And Test Setup Photographs

Annex B.i. Photograph: EUT External Photo



Whole Package - Top View



Adapter - Front View



EUT - Front View



EUT - Rear View



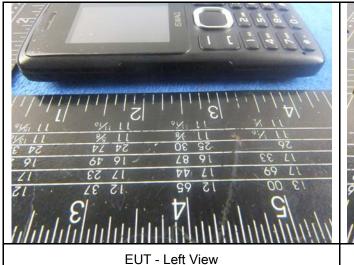
EUT - Top View

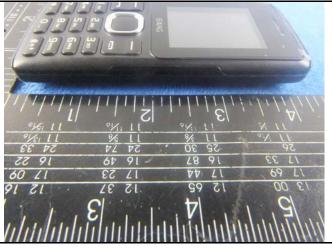


EUT - Bottom View



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- Left View EUT - Right View



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Annex B.ii. Photograph: EUT Internal Photo

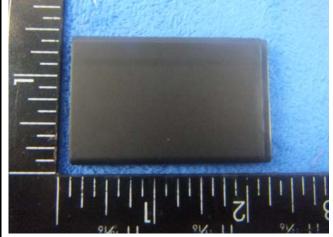




Cover Off - Top View 1

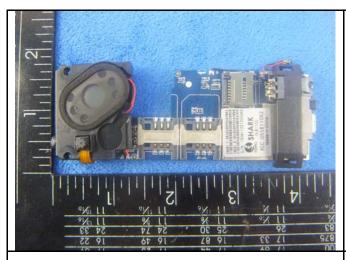
Cover Off - Top View 2



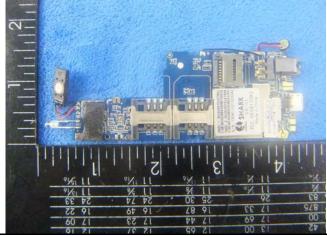


Battery - Top View

Battery - Bottom View



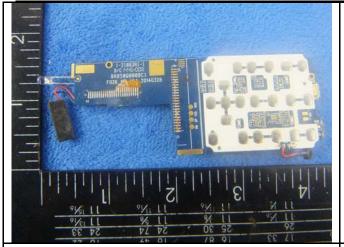
Mainborad With Shielding - Front View 1



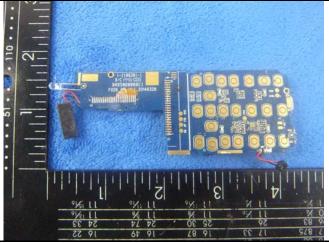
Mainborad With Shielding - Front View 2



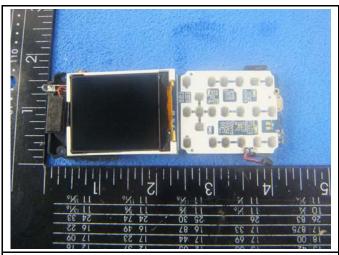
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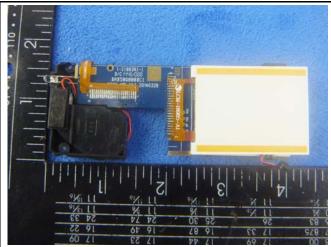
Mainborad With Shielding - rear View



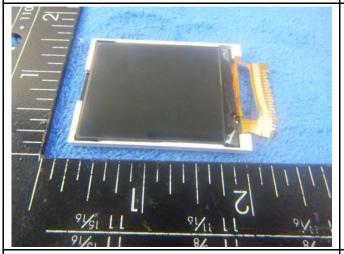
Mainborad Without Shielding - rear View



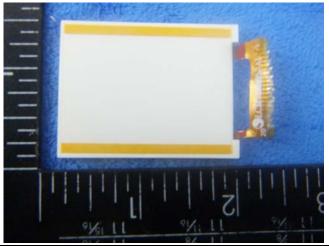
LCD - Front View 1



LCD - Rear View 1



LCD - Front View 2



LCD - Rear View 2



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GSM Antenna View

BT Antenna View



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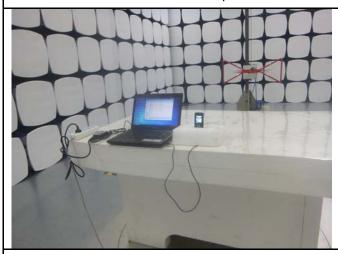
Annex B.iii. Photograph: Test Setup Photo



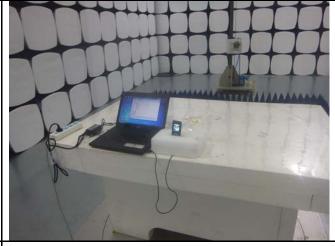
Conducted Emissions Test Setup - Front View



Conducted Emissions Test Setup - Side View



Radiated Spurious Emissions Test Setup Below 1GHz



Radiated Spurious Emissions Test Setup Above 1GHz

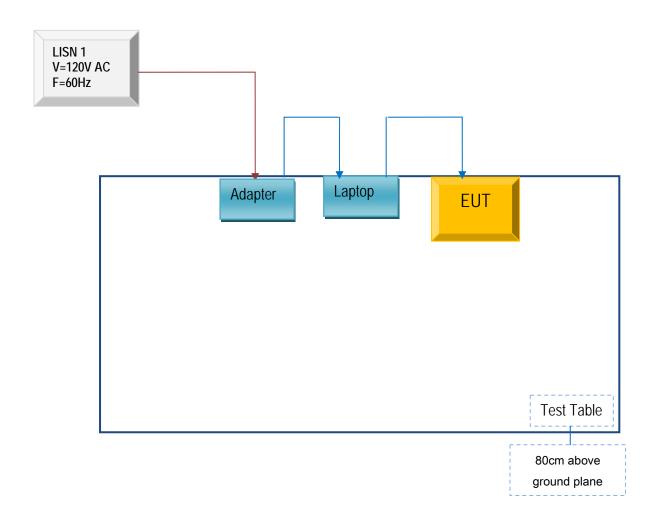


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Annex C. TEST SETUP AND SUPPORTING EQUIPMENT

Annex C.ii. TEST SET UP BLOCK

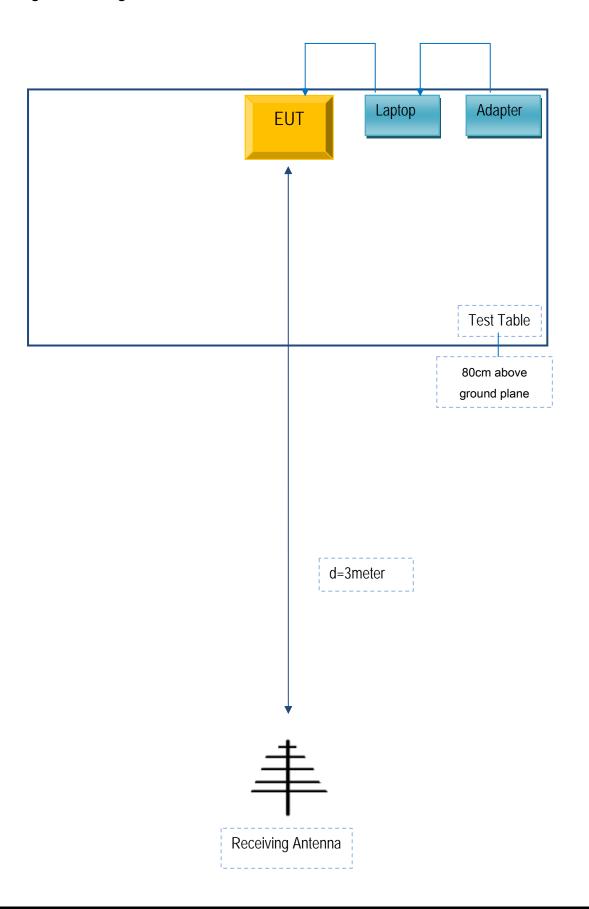
Block Configuration Diagram for Conducted Emissions





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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.

| Manufacturer | Equipment Description | Model | Calibration Date | Calibration Due Date |
|--------------|-----------------------|--------------|---------------------|----------------------|
| Lenovo | Lenovo Laptop | E40& 0579A52 | N/A | N/A |



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

Please see Attachment



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Annex E. DECLARATION OF SIMILARITY

Swagtek

To: 775 Montague Expressway Mlpitas, CA 95035, USA

Declaration Letter

Dear Sir,

For our business issue and marketing requirement, we would like to list 2 model numbers on The FCC reports, as following:

| Model No.: | Trade: | - |
|------------|-------------|---|
| IS-B1102 | iSwag Shark | |
| DU-1B011B | Duo Shark | |
| DO-1DOTTE | | |

We declare that: IS-B1102, DU-1B011B, All models the same PCB and Appearance shape, accessories the difference of these is listed as below:

| Serial Model No | Difference |
|-----------------|-----------------------------|
| DU-1B011B | IS-B1102 (Dual SIM card); |
| | DU-1B011B (Single SIM card) |
| | |

Thank you!

Sincerely,

Client's signature:

Client's name / title : Charles Cheng/ Manager

Contact information: 1-305 421 9938

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