RF TEST REPORT



Report No.: 17070565-FCC-R2
Supersede Report No.: N/A

| Applicant | BLU Product | ts , Inc | | |
|---|----------------|--------------|--------------------|-----|
| Product Name | Mobile phone | е | | |
| Model No. | ADVANCE 4 | I.OM | | |
| Serial No. | N/A | | | |
| Test Standard | FCC Part 15 | 5.247: 2016, | ANSI C63.10: 2 | 013 |
| Test Date | July 07 to 1 | 1, 2017 | | |
| Issue Date | July 12, 201 | 7 | | |
| Test Result | Pass | Fail | | |
| Equipment compl | ed with the sp | pecification | V | |
| Equipment did not comply with the specification | | | | |
| mas. He | | David | Huang | |
| Evans He Test Engineer | | | d Huang cked 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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Laboratories Introduction

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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 |
|-----------------|----------------|-------------|---------------|
| 17070565-FCC-R2 | NONE | Original | July 12, 2017 |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

2. Customer information

| Applicant Name | BLU Products , Inc |
|------------------|--|
| Applicant Add | 10814 NW 33rd St # 100 Doral, FL 33172 |
| Manufacturer | BLU Products , Inc |
| Manufacturer Add | 10814 NW 33rd St # 100 Doral, FL 33172 |

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 of | Dadieted Emission December 12 Observes 20 O |
| Radiated Emission | Radiated Emission Program-To Shenzhen v2.0 |
| Test Software of | EZ EMC(ver len 0204) |
| Conducted Emission | EZ-EMC(ver.lcp-03A1) |



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4. Equipment under Test (EUT) Information

Description of EUT: Mobile phone

Main Model: ADVANCE 4.0M

Serial Model: N/A

Date EUT received: July 06, 2017

Test Date(s): July 07 to 11, 2017

Equipment Category : DTS

Antenna Gain:

GSM850:-0.3dBi

PCS1900: 0.1dBi

UMTS-FDD Band V: -0.6dBi

UMTS-FDD Band II: -0.8dBi

WIFI: 0.3dBi

Bluetooth: -0.2dBi

Antenna Type: PIFA antenna

GSM / GPRS: GMSK

EGPRS: GMSK,8PSK

Type of Modulation: UMTS-FDD: QPSK

802.11b/g/n: DSSS, OFDM

Bluetooth: GFSK, π /4DQPSK, 8DPSK

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

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

Bluetooth: 2402-2480 MHz



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GSM 850: 124CH

PCS1900: 299CH

UMTS-FDD Band V : 102CH Number of Channels:

UMTS-FDD Band II: 277CH

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

Bluetooth: 79CH

Port: USB Port, Earphone Port

Adapter:

Model: US-WW-0502

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

Input Power: Output: DC 5.0V,500mA

Battery:

Model: C615044130L

Spec: 3.7V,1300mAh, 4.81Wh

Trade Name : BLU

FCC ID: YHLBLUADVANCE4M

Note: The difference between the old case RSZ160906003-00D and new case 17070565: Antenna and Appearance shape, accessories are the same. The only difference is added one LCD bonding pad on PCB, the other construction is the same.

So, we have retested the Radiated Emissions data in this report.



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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 |
|-------------------|---|------------|
| §15.203 | Antenna Requirement | Compliance |
| §15.205, §15.209, | Radiated Emissions & Unwanted Emissions | Compliance |
| §15.247(d) | into Restricted Frequency Bands | Compliance |

Measurement Uncertainty

| Emissions | | |
|---|---|---------------|
| Test Item | Description | Uncertainty |
| Radiated Emissions & Unwanted Emissions into Restricted Frequency Bands | 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 Antenna Requirement

Applicable Standard

According to § 15.203, 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 shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the user of a standard antenna jack or electrical connector is prohibited. The structure and application of the EUT were analyzed to determine compliance with section §15.203 of the rules. §15.203 state that the subject device must meet the following criteria:

- a. Antenna must be permanently attached to the unit.
- b. Antenna must use a unique type of connector to attach to the EUT.

Unit must be professionally installed, and installer shall be responsible for verifying that the correct antenna is employed with the unit.

And according to FCC 47 CFR section 15.247 (b), if the transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

Antenna Connector Construction

The EUT has 2 antennas:

A permanently attached PIFA antenna for Bluetooth/WIF, the gain is -0.2dBi for Bluetooth, the gain is 0.3dBi for WIFI.

A permanently attached PIFA antenna for GSM/PCS/UMTS, the gain is -0.3dBi for GSM850, 0.1dBi for PCS1900, -0.6dBi for UMTS-FDD Band V, -0.8dBi for UMTS-FDD Band II.

The antenna meets up with the ANTENNA REQUIREMENT.

Result: Compliance.



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6.2 Radiated Spurious Emissions & Restricted Band

| Temperature | 25°C |
|----------------------|---------------|
| Relative Humidity | 57% |
| Atmospheric Pressure | 1015mbar |
| Test date : | July 07, 2017 |
| Tested By : | Evans He |

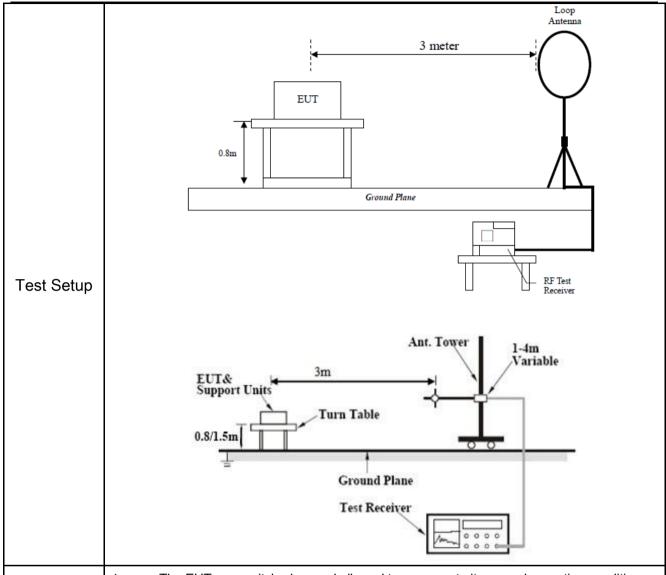
Requirement(s):

| Spec | Item | Requirement | Applicable | |
|--|-------|---|------------------------------------|----------|
| | | Except higher limit as specified elsewhere in other section, the emissions from the low-power radio-frequency devices shall not exceed the field strength levels specified in the following table and the level of any unwanted emissions shall not exceed the level of the fundamental emission. The tighter limit applies at the band edges | | |
| | | Frequency range (MHz) | Field Strength (µV/m) | |
| | a) | 0.009~0.490 | 2400/F(KHz) | V |
| | | 0.490~1.705 | 24000/F(KHz) | |
| | | 1.705~30.0 | 30 | |
| | | 30 – 88 | 100 | |
| 47CFR§15. | | 88 – 216 | 150 | |
| 247(d), | | 216 960 | 200 | |
| RSS210 | | Above 960 | 500 | |
| (A8.5) | 48.5) | For non-restricted band, In any 100 frequency band in which the spread modulated intentional radiator is op- | d spectrum or digitally | |
| | | power that is produced by the inter | tional radiator shall be at least | |
| | b) | 20 dB or 30dB below that in the 100 kHz bandwidth within the | | V |
| | | band that contains the highest level of the desired power, | | |
| | | determined by the measurement m | ethod on output power to be | |
| | | used. Attenuation below the genera | al limits specified in § 15.209(a) | |
| | | is not required 20 dB down 30 | dB down | |
| c) or restricted band, emission must als emission limits specified in 15.209 | | also comply with the radiated | > | |



Procedure

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- 1. The EUT was switched on and allowed to warm up to its normal operating condition.
- 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 EUT, changing the antenna polarization, and adjusting the antenna height in the following manner:
 - a. Vertical or horizontal polarization (whichever gave the higher emission level 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 resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120 kHz for Quasiy Peak detection at frequency below 1GHz.
- The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz with Peak detection for Peak measurement at frequency above 1GHz.



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| | The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video |
|---------|---|
| | bandwidth is 10Hz with Peak detection for Average Measurement as below at |
| | frequency above 1GHz. |
| | 5. Steps 2 and 3 were repeated for the next frequency point, until all selected frequency |
| | points were measured. |
| Domonik | Different RF configuration has been evaluated but not much difference was found. The data |
| Remark | presented here is the worst case data with EUT under 802.11n – HT20-2437MHz mode. |
| Result | Pass Fail |

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



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Test Result:

Test Mode: Transmitting Mode

Frequency range: 9KHz - 30MHz

| Freq. | Detection | Factor | Reading | Result | Limit@3m | Margin |
|-------|-----------|--------|----------|----------|----------|--------|
| (MHz) | value | (dB/m) | (dBuV/m) | (dBuV/m) | (dBuV/m) | (dB) |
| | | | | | | >20 |
| | | | | | | >20 |

Note:

The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

Distance extrapolation factor =40 log (specific distance/test distance)(dB);

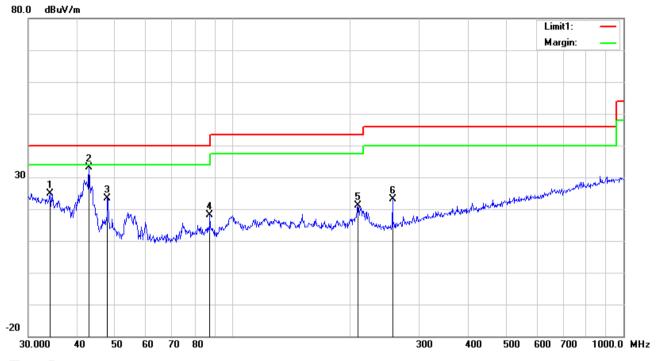
Limit line = specific limits(dBuv) + distance extrapolation factor.



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Test Mode: Transmitting Mode

30MHz -1GHz



Test Data

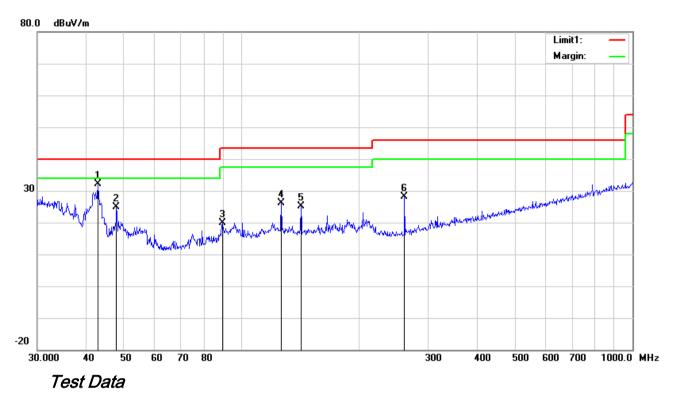
Vertical Polarity Plot @3m

| No. | P/L | Frequency | Reading | Detect | Ant_F | PA_G | Cab_L | Result | Limit | Margin | Height | Degr |
|-----|-----|-----------|----------|--------|--------|-------|-------|----------|----------|--------|--------|------|
| | | | | or | | | | | | | | ee |
| | | (MHz) | (dBuV/m) | | (dB/m) | (dB) | (dB) | (dBuV/m) | (dBuV/m) | (dB) | (cm) | () |
| 1 | Н | 34.0365 | 28.04 | peak | 18.29 | 22.26 | 0.73 | 24.80 | 40.00 | -15.20 | 100 | 333 |
| 2 | Н | 42.8998 | 42.63 | peak | 11.99 | 22.29 | 0.77 | 33.10 | 40.00 | -6.90 | 100 | 49 |
| 3 | Н | 47.8260 | 35.51 | peak | 9.36 | 22.34 | 0.78 | 23.31 | 40.00 | -16.69 | 100 | 211 |
| 4 | Ι | 87.4177 | 31.67 | peak | 7.90 | 22.35 | 1.01 | 18.23 | 40.00 | -21.77 | 200 | 9 |
| 5 | Н | 209.3129 | 29.98 | peak | 11.97 | 22.36 | 1.57 | 21.16 | 43.50 | -22.34 | 100 | 26 |
| 6 | Н | 256.5211 | 32.06 | peak | 11.69 | 22.29 | 1.71 | 23.17 | 46.00 | -22.83 | 100 | 320 |



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30MHz -1GHz



Horizontal Polarity Plot @3m

| N | P/ | Frequency | Reading | Detect | Ant_F | PA_G | Cab_L | Result | Limit | Margin | Height | Degr |
|----|----------|-----------|--------------|--------|--------|-------|-------|----------|----------|--------|--------|------|
| О. | L | | | or | | | | | | | | ее |
| | | (MHz) | (dBuV/m) | | (dB/m) | (dB) | (dB) | (dBuV/m) | (dBuV/m) | (dB) | (cm) | () |
| 1 | ٧ | 42.8998 | 41.75 | peak | 11.99 | 22.29 | 0.77 | 32.22 | 40.00 | -7.78 | 100 | 221 |
| 2 | > | 47.8260 | 37.03 | peak | 9.36 | 22.34 | 0.78 | 24.83 | 40.00 | -15.17 | 200 | 201 |
| 3 | > | 89.2764 | 33.39 | peak | 7.97 | 22.33 | 0.97 | 20.00 | 43.50 | -23.50 | 100 | 161 |
| 4 | V | 126.3286 | 33.72 | peak | 13.49 | 22.38 | 1.19 | 26.02 | 43.50 | -17.48 | 100 | 9 |
| 5 | ٧ | 141.8262 | 33.68 | peak | 12.60 | 22.40 | 1.28 | 25.16 | 43.50 | -18.34 | 100 | 251 |
| 6 | V | 261.0583 | 36.82 | peak | 11.89 | 22.29 | 1.72 | 28.14 | 46.00 | -17.86 | 100 | 113 |



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Above 1GHz

| st Mode: |
|----------|
|----------|

Low Channel (2412 MHz) (g mode worst case)

| Frequency (MHz) | S.A. Reading (dBµV) | Detector (PK/AV) | Polarity (H/V) | Ant. Factor (dB/m) | Cable Loss (dB) | Pre-Amp. Gain (dB) | Cord Amp. (dBµV/m) | Limit (dBµV/m) | Margin (dB) |
|--------------------|---------------------------|---------------------|-------------------|--------------------------|-----------------------|--------------------------|--------------------------|-------------------|----------------|
| 4824 | 42.16 | AV | V | 33.39 | 7.22 | 48.46 | 34.31 | 54 | -19.69 |
| 4824 | 40.25 | AV | Н | 33.39 | 7.22 | 48.46 | 32.4 | 54 | -21.6 |
| 4824 | 54.61 | PK | V | 33.39 | 7.22 | 48.46 | 46.76 | 74 | -27.24 |
| 4824 | 53.29 | PK | Н | 33.39 | 7.22 | 48.46 | 45.44 | 74 | -28.56 |
| 6435 | 28.76 | AV | V | 35.52 | 7.84 | 48.71 | 23.41 | 54 | -30.59 |
| 6435 | 26.49 | AV | Ι | 35.52 | 7.84 | 48.71 | 21.14 | 54 | -32.86 |
| 6435 | 45.21 | PK | V | 35.52 | 7.84 | 48.71 | 39.86 | 74 | -34.14 |
| 6435 | 43.16 | PK | Н | 35.52 | 7.84 | 48.71 | 37.81 | 74 | -36.19 |

Middle Channel (2437 MHz) (a mode worst case)

| | Wildle Chaillei (2437 Wi⊓2) (9 Hode Worst Case) | | | | | | | | | |
|--------------------|---|---------------------|-------------------|--------------------------|-----------------------|--------------------------|--------------------------|-------------------|----------------|--|
| Frequency (MHz) | S.A. Reading (dBµV) | Detector (PK/AV) | Polarity (H/V) | Ant. Factor (dB/m) | Cable Loss (dB) | Pre-Amp. Gain (dB) | Cord Amp. (dBµV/m) | Limit (dBµV/m) | Margin (dB) | |
| 4874 | 41.05 | AV | ٧ | 33.62 | 7.53 | 48.36 | 33.84 | 54 | -20.16 | |
| 4874 | 40.23 | AV | Ι | 33.62 | 7.53 | 48.36 | 33.02 | 54 | -20.98 | |
| 4874 | 56.74 | PK | V | 33.62 | 7.53 | 48.36 | 49.53 | 74 | -24.47 | |
| 4874 | 55.23 | PK | Н | 33.62 | 7.53 | 48.36 | 48.02 | 74 | -25.98 | |
| 13508 | 24.91 | AV | ٧ | 40.65 | 13.76 | 46.88 | 32.44 | 54 | -21.56 | |
| 13508 | 23.15 | AV | Н | 40.65 | 13.76 | 46.88 | 30.68 | 54 | -23.32 | |
| 13508 | 45.26 | PK | V | 40.65 | 13.76 | 46.88 | 52.79 | 74 | -21.21 | |
| 13508 | 43.18 | PK | Н | 40.65 | 13.76 | 46.88 | 50.71 | 74 | -23.29 | |



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High Channel (2462 MHz) (g mode worst case)

| Frequency (MHz) | S.A. Reading (dBµV) | Detector (PK/AV) | Polarity (H/V) | Ant. Factor (dB/m) | Cable Loss (dB) | Pre-Amp. Gain (dB) | Cord Amp. (dBµV/m) | Limit (dBµV/m) | Margin (dB) |
|--------------------|---------------------------|---------------------|-------------------|--------------------------|-----------------------|--------------------------|--------------------------|-------------------|----------------|
| 4924 | 43.15 | AV | V | 33.74 | 7.78 | 48.34 | 36.33 | 54 | -17.67 |
| 4924 | 42.87 | AV | Η | 33.74 | 7.78 | 48.34 | 36.05 | 54 | -17.95 |
| 4924 | 52.16 | PK | V | 33.74 | 7.78 | 48.34 | 45.34 | 74 | -28.66 |
| 4924 | 50.33 | PK | Н | 33.74 | 7.78 | 48.34 | 43.51 | 74 | -30.49 |
| 17942 | 20.17 | AV | V | 43.21 | 19.44 | 44.4 | 38.42 | 54 | -15.58 |
| 17942 | 19.56 | AV | Н | 43.21 | 19.44 | 44.4 | 37.81 | 54 | -16.19 |
| 17942 | 43.22 | PK | V | 43.21 | 19.44 | 44.4 | 61.47 | 74 | -12.53 |
| 17942 | 41.06 | PK | Н | 43.21 | 19.44 | 44.4 | 59.31 | 74 | -14.69 |

Note:

- 1, The testing has been conformed to 10*2462MHz=24,620MHz
- 2, All other emissions more than 30 dB below the limit
- 3, X-Axis, Y-Axis and Z-Axis were investigated. The results above show only the worst case.



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Annex A. TEST INSTRUMENT

| Instrument | Model | Serial# | Cal Date | Cal Due | In use |
|---|--------|-------------|------------|------------|-------------|
| Radiated Emissions | | | | | |
| EMI test receiver | ESL6 | 100262 | 09/16/2016 | 09/15/2017 | ~ |
| Positioning Controller | UC3000 | MF780208282 | 11/18/2016 | 11/17/2017 | ~ |
| OPT 010 AMPLIFIER (0.1-1300MHz) | 8447E | 2727A02430 | 08/31/2016 | 08/30/2017 | > |
| Microwave Preamplifier (1 ~ 26.5GHz) | 8449B | 3008A02402 | 03/23/2017 | 03/22/2018 | > |
| Active Antenna (9kHz-30MHz) | AL-130 | 121031 | 10/13/2016 | 10/12/2017 | (|
| Bilog Antenna (30MHz~6GHz) | JB6 | A110712 | 09/20/2016 | 09/19/2017 | > |
| Double Ridge Horn Antenna (1 ~18GHz) | AH-118 | 71283 | 09/23/2016 | 09/22/2017 | Z. |
| Universal Radio Communication Tester | CMU200 | 121393 | 09/24/2016 | 09/23/2017 | V |



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Annex B. EUT and Test Setup Photographs

Annex B.i. Photograph: EUT External Photo

Whole Package View



Adapter - Lable View





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EUT - Front View



EUT - Rear View





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EUT - Top View



EUT - Bottom View





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EUT - Left View



EUT - Right View





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Annex B.ii. Photograph: EUT Internal Photo





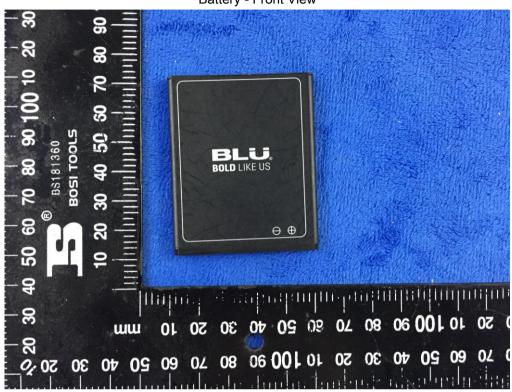
Cover Off - Top View 2





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Battery - Front View



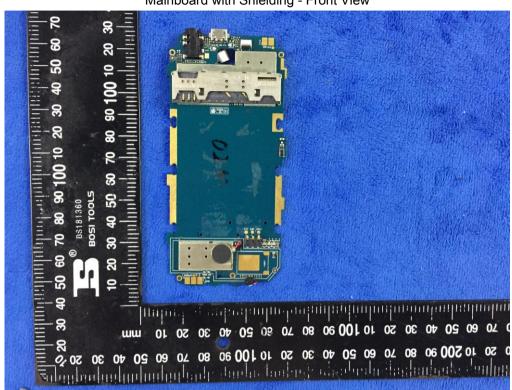
Battery - Rear View



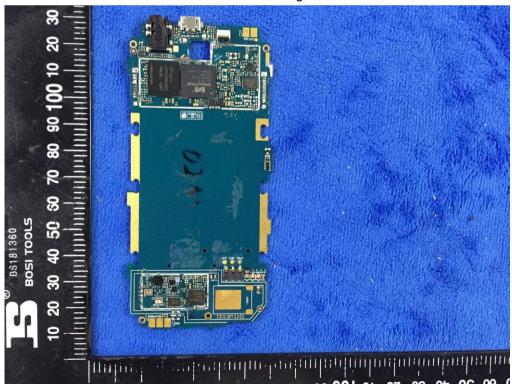


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Mainboard with Shielding - Front View



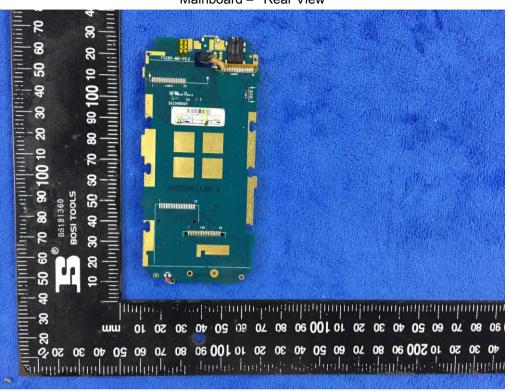
Mainboard without Shielding - Front View



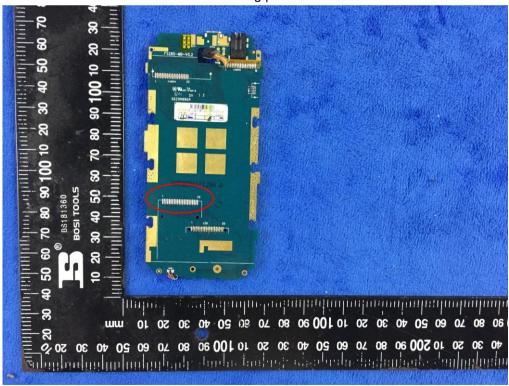


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Mainboard - Rear View



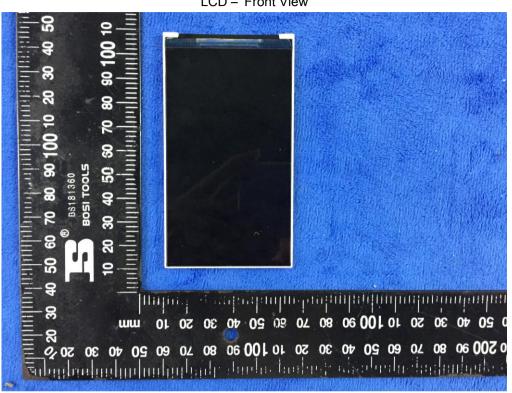
LCD bonding pads View



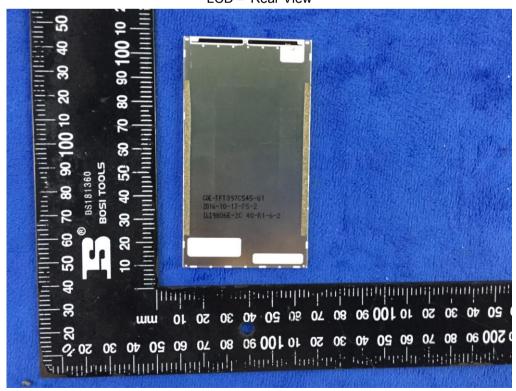


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LCD - Front View



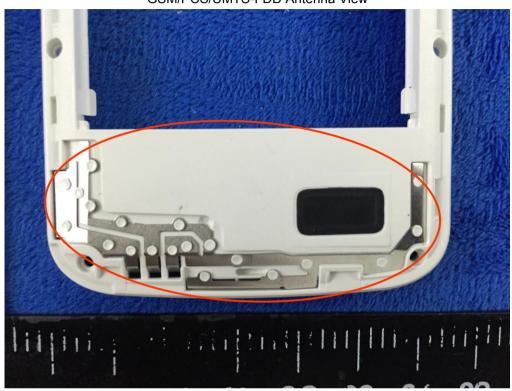
LCD - Rear View





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GSM/PCS/UMTS-FDD Antenna View



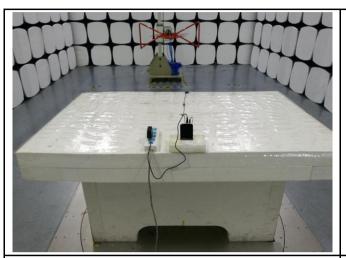
WIFI/BT - Antenna View



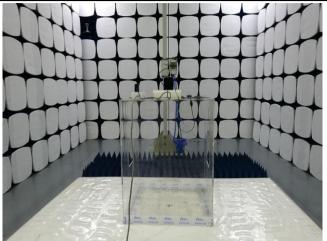


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Annex B.iii. Photograph: Test Setup Photo



Radiated Spurious Emissions Test Setup Below 1GHz



Radiated Spurious Emissions Test Setup Above 1GHz

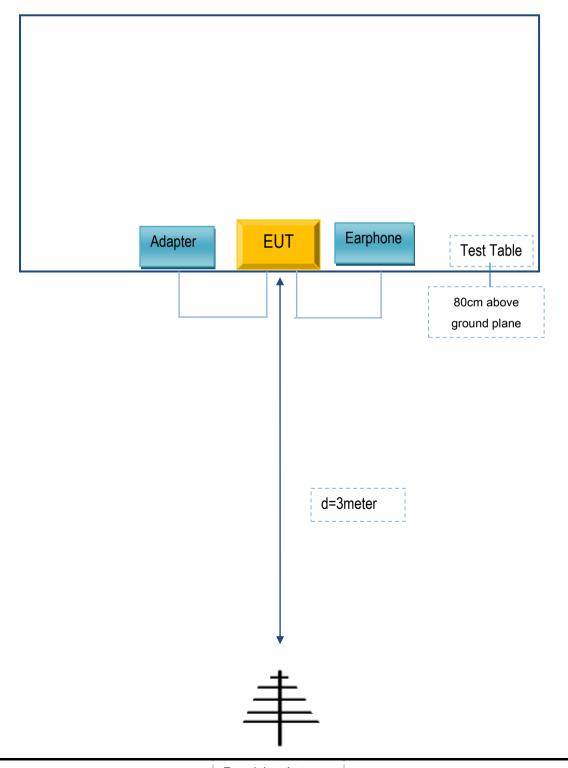


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Annex C. TEST SETUP AND SUPPORTING EQUIPMENT

Annex C.ii. TEST SET UP BLOCK

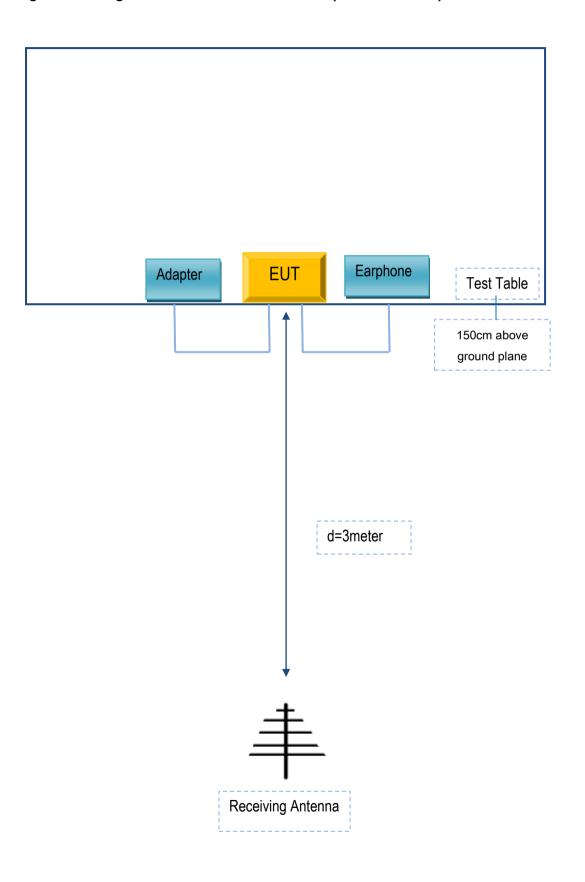
Block Configuration Diagram for Radiated Emissions (Below 1GHz).





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Block Configuration Diagram for Radiated Emissions (Above 1GHz) .





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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 |
|-----------------------------|--------------------------|--------------|-----------|
| BLU Products , Inc Earphone | | ADVANCE 4.0M | N/A |
| BLU Products , Inc Adapter | | US-WW-0502 | N/A |

Supporting Cable:

| Cable type | Shield Type | Ferrite Core | Length | Serial No |
|-----------------|--------------|-----------------|--------|-----------|
| USB Cable | Un-shielding | No | 0.8m | N/A |
| Earphone Cables | Un-shielding | No | 0.5m | N/A |



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

Please see the attachment



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Annex E. DECLARATION OF SIMILARITY

Declaration Letter

(Original approval holder)

| Company name | BLU Products, Inc | |
|--------------|--|--|
| Address | 10814 NW 33rd St # 100 Doral, FL 33172 | |

Declare that the following company:

(New approval holder)

| /item appretainment |) | |
|---------------------|--|--|
| Company name | BLU Products, Inc | |
| Address | 10814 NW 33rd St # 100 Doral, FL 33172 | |

is here to declare that PCBA , $\!$ Antenna and Appearance shape , accessories are the same . The only difference is listed as below

(Difference from original approval holder's)

| (Emerenee nem eng | oronico ironi original approvarioraci oj | | | | |
|-------------------|--|-------------------------------------|--|--|--|
| | Model | Difference | | | |
| Original | ADVANCE 4.0M | Only add and LCD handing and an DCD | | | |
| New | ADVANCE 4.0M | Only add one LCD bonding pad on PCB | | | |

and apply for own approval or certificate.

Attestation:

| Date: | Name: (this must be a person) | Function: | Signature: (or official company stamp) |
|-----------|----------------------------------|-----------|---|
| 2017-7-13 | Zeng wei | | Zeng Wei |