

Shenzhen Zhongjian Nanfang Testing Co., Ltd.

Report No: CCISE200602403

FCC REPORT

Applicant: SKY PHONE LLC

Address of Applicant: 1348 Washington Av. Suite 350, Miami Beach, FL 33139

Equipment Under Test (EUT)

Product Name: 3G Smart Phone

Model No.: PLATINUM H5

Trade mark: SKY DEVICES

FCC ID: 2ABOSSKYPLATH5

Applicable standards: FCC CFR Title 47 Part 15 Subpart C Section 15.247

Date of sample receipt: 08 Jun., 2020

Date of Test: 09 Jun., to 28 Jun., 2020

Date of report issued: 29 Jun., 2020

Test Result: PASS *

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

Authorized Signature:



Bruce Zhang 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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2 Version

| Version No. | Date | Description |
|-------------|---------------|-------------|
| 00 | 29 Jun., 2020 | Original |
| | | |
| | | |
| | | |
| | | |

Tested by: _____ Date: ____ 29 Jun., 2020

Reviewed by:

| Date: 29 Jun., 2020

Project Engineer



3 Contents

| | | | Page |
|---|-------|---|------|
| 1 | COV | /ER PAGE | 1 |
| 2 | VER | SION | 2 |
| 3 | CON | ITENTS | 3 |
| | | T SUMMARY | |
| 4 | | | |
| 5 | GEN | IERAL INFORMATION | 5 |
| | 5.1 | CLIENT INFORMATION | 5 |
| | 5.2 | GENERAL DESCRIPTION OF E.U.T | 5 |
| | 5.3 | TEST ENVIRONMENT AND TEST MODE | 6 |
| | 5.4 | DESCRIPTION OF SUPPORT UNITS | |
| | 5.5 | MEASUREMENT UNCERTAINTY | |
| | 5.6 | ADDITIONS TO, DEVIATIONS, OR EXCLUSIONS FROM THE METHOD | |
| | 5.7 | LABORATORY FACILITY | |
| | 5.8 | LABORATORY LOCATION | |
| | 5.9 | TEST INSTRUMENTS LIST | 7 |
| 6 | TES | T RESULTS AND MEASUREMENT DATA | 8 |
| | 6.1 | ANTENNA REQUIREMENT: | 8 |
| | 6.2 | CONDUCTED EMISSION | 9 |
| | 6.3 | CONDUCTED OUTPUT POWER | |
| | 6.4 | OCCUPY BANDWIDTH | |
| | 6.5 | POWER SPECTRAL DENSITY | |
| | 6.6 | BAND EDGE | |
| | 6.6.1 | | |
| | 6.6.2 | | |
| | 6.7 | SPURIOUS EMISSION | |
| | 6.7.1 | | |
| | 6.7.2 | | |
| 7 | TES | T SETUP PHOTO | 32 |
| Ω | FIIT | CONSTRUCTIONAL DETAILS | 22 |





4 Test Summary

| Test Items | Section in CFR 47 | Result |
|---|---------------------|--------|
| Antenna requirement | 15.203 & 15.247 (b) | Pass |
| AC Power Line Conducted Emission | 15.207 | Pass |
| Conducted Peak Output Power | 15.247 (b)(3) | Pass |
| 6dB Emission Bandwidth 99% Occupied Bandwidth | 15.247 (a)(2) | Pass |
| Power Spectral Density | 15.247 (e) | Pass |
| Band Edge | 15.247 (d) | Pass |
| Spurious Emission | 15.205 & 15.209 | Pass |

Remark:

Test Method:

- 1. Pass: The EUT complies with the essential requirements in the standard.
- 2. N/A: Not Applicable.
- 3. The cable insertion loss used by "RF Output Power" and other conduction measurement items is 0.5dB (provided by the customer).

ANSI C63.4-2014 ANSI C63.10-2013

KDB 558074 D01 15.247 Meas Guidance v05r02





5 General Information

5.1 Client Information

| Applicant: | SKY PHONE LLC |
|---------------|--|
| Address: | 1348 Washington Av. Suite 350, Miami Beach, FL 33139 |
| Manufacturer: | SKY PHONE LLC |
| Address: | 1348 Washington Av. Suite 350, Miami Beach, FL 33139 |

5.2 General Description of E.U.T.

| 3.2 General Description | . 0. 2.0 |
|-------------------------|---|
| Product Name: | 3G Smart Phone |
| Model No.: | PLATINUM H5 |
| Operation Frequency: | 2402-2480 MHz |
| Channel numbers: | 40 |
| Channel separation: | 2 MHz |
| Modulation technology: | GFSK |
| Data speed : | 1Mbps |
| Antenna Type: | Internal Antenna |
| Antenna gain: | 1.75 dBi |
| Power supply: | Rechargeable Li-ion Battery DC3.8V-2000mAh |
| AC adapter: | Input: AC100-240V, 50/60Hz, 0.2A |
| | Output: DC 5.0V, 1.0A |
| Test Sample Condition: | The test samples were provided in good working order with no visible defects. |

| Operation Frequency each of channel | | | | | | | |
|-------------------------------------|-----------|---------|-----------|---------|-----------|---------|-----------|
| Channel | Frequency | Channel | Frequency | Channel | Frequency | Channel | Frequency |
| 0 | 2402MHz | 10 | 2422MHz | 20 | 2442MHz | 30 | 2462MHz |
| 1 | 2404MHz | 11 | 2424MHz | 21 | 2444MHz | 31 | 2464MHz |
| 2 | 2406MHz | 12 | 2426MHz | 22 | 2446MHz | 32 | 2466MHz |
| 3 | 2408MHz | 13 | 2428MHz | 23 | 2448MHz | 33 | 2468MHz |
| 4 | 2410MHz | 14 | 2430MHz | 24 | 2450MHz | 34 | 2470MHz |
| 5 | 2412MHz | 15 | 2432MHz | 25 | 2452MHz | 35 | 2472MHz |
| 6 | 2414MHz | 16 | 2434MHz | 26 | 2454MHz | 36 | 2474MHz |
| 7 | 2416MHz | 17 | 2436MHz | 27 | 2456MHz | 37 | 2476MHz |
| 8 | 2418MHz | 18 | 2438MHz | 28 | 2458MHz | 38 | 2478MHz |
| 9 | 2420MHz | 19 | 2440MHz | 29 | 2460MHz | 39 | 2480MHz |

Note:

In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test. Channel No. 0, 20 & 39 were selected as Lowest, Middle and Highest channel.



5.3 Test environment and test mode

| Operating Environment: | |
|------------------------|---|
| Temperature: | 24.0 °C |
| Humidity: | 54 % RH |
| Atmospheric Pressure: | 1010 mbar |
| Test mode: | |
| Transmitting mode | Keep the EUT in continuous transmitting with modulation |

Report No: CCISE200602403

Radiated Emission: The sample was placed 0.8m (below 1GHz)/1.5m (above 1GHz) 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. Duty cycle setting during the transmission is 100% with maximum power setting for all modulations.

5.4 Description of Support Units

The EUT has been tested as an independent unit.

5.5 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) | ±5.16 dB (k=2) |
| Radiated Emission (18GHz ~ 40GHz) | ±3.20 dB (k=2) |

5.6 Additions to, deviations, or exclusions from the method

No

5.7 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.

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

5.8 Laboratory Location

Shenzhen Zhongjian Nanfang Testing Co., Ltd.

Address: No.110~116, Building B, Jinyuan Business Building, 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

Shenzhen Zhongjian Nanfang Testing Co., Ltd. No.110~116, Building B, Jinyuan Business Building, Xixiang Road, Bao'an District, Shenzhen, Guangdong, China Telephone: +86 (0) 755 23118282 Fax: +86 (0) 755 23116366



5.9 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 | 044 | 03-07-2020 | 03-06-2021 |
| BiConiLog Antenna | SCHWARZBECK | VULB9163 | 497 | 03-07-2020 | 03-06-2021 |
| Horn Antenna | SCHWARZBECK | BBHA9120D | 916 | 03-07-2020 | 03-06-2021 |
| Llaws Antonna | COLIMAN DADEON | DD1140400D | 4005 | 06-22-2017 | 06-21-2020 |
| Horn Antenna | SCHWARZBECK | BBHA9120D | 1805 | 06-20-2020 | 06-19-2021 |
| Horn Antenna | SCHWARZBECK | BBHA 9170 | BBHA9170582 | 11-18-2019 | 11-17-2020 |
| EMI Test Software | AUDIX | E3 | Version: 6.110919b | |) |
| Pre-amplifier | HP | 8447D | 2944A09358 | 03-07-2020 | 03-06-2021 |
| Pre-amplifier | CD | PAP-1G18 | 11804 | 03-07-2020 | 03-06-2021 |
| Spectrum analyzer | Rohde & Schwarz | FSP30 | 101454 | 03-05-2020 | 03-04-2021 |
| Spectrum analyzer | Rohde & Schwarz | FSP40 | 100363 | 11-18-2019 | 11-17-2020 |
| EMI Test Receiver | Rohde & Schwarz | ESRP7 | 101070 | 03-05-2020 | 03-04-2021 |
| Cable | ZDECL | Z108-NJ-NJ-81 | 1608458 | 03-07-2020 | 03-06-2021 |
| Cable | MICRO-COAX | MFR64639 | K10742-5 | 03-07-2020 | 03-06-2021 |
| Cable | SUHNER | SUCOFLEX100 | 58193/4PE | 03-07-2020 | 03-06-2021 |
| RF Switch Unit | MWRFTEST | MW200 | N/A | N/A | N/A |
| Test Software | MWRFTEST | MTS8200 | Version: 2.0.0.0 | | |

| 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 | 03-05-2020 | 03-04-2021 |
| Pulse Limiter | SCHWARZBECK | OSRAM 2306 | 9731 | 03-05-2020 | 03-04-2021 |
| LISN | CHASE | MN2050D | 1447 | 03-05-2020 | 03-04-2021 |
| LISN | Rohde & Schwarz | ESH3-Z5 | 8438621/010 | 07-21-2017 | 07-20-2020 |
| Cable | HP | 10503A | N/A | 03-05-2020 | 03-04-2021 |
| EMI Test Software | AUDIX | E3 | \ | /ersion: 6.110919l | b |



6 Test results and Measurement Data

6.1 Antenna requirement:

Standard requirement: FCC Part 15 C Section 15.203 /247(b)

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.

15.247(b) (4) requirement:

(4) The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

E.U.T Antenna:

The BLE antenna is an Internal antenna which cannot replace by end-user, the best-case gain of the antenna is 1.75 dBi.





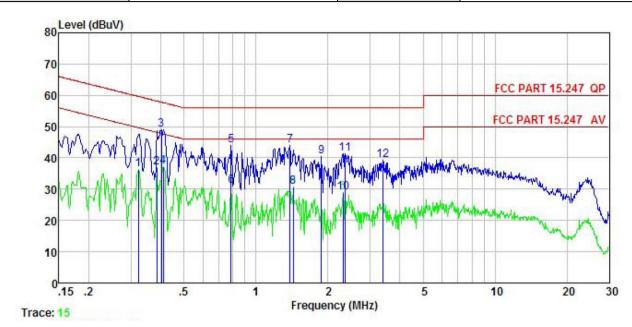
6.2 Conducted Emission

| Test Requirement: | FCC Part 15 C Section 15.207 | | | |
|-----------------------|--|--|---|--|
| Test Frequency Range: | 150 kHz to 30 MHz | | | |
| Class / Severity: | Class B | | | |
| Receiver setup: | RBW=9kHz, VBW=30kHz | | | |
| Limit: | Fraguency ronge (MHz) | Limit (| dBuV) | |
| | 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 logarithm | | | |
| Test procedure: | The E.U.T and simulators line impedance stabilizati 50ohm/50uH coupling important and the peripheral devices at LISN that provides a 50ol | on network (L.I.S.N.), wh pedance for the measuriing also connected to the in | ich provides a ng equipment. main power through a | |
| | termination. (Please refer photographs). | to the block diagram of | the test setup and | |
| | 3. Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10(latest version) on conducted measurement. | | | |
| Test setup: | Reference Plane | | | |
| | AUX Equipment E.U.T | 80cm LISN Filter Filter Receiver | – AC power | |
| | Remark E.U.T: Equipment Under Test LISN: Line Impedence Stabilization Net Test table height=0.8m | twork | | |
| Test Instruments: | Refer to section 5.9 for details | | | |
| Test mode: | Refer to section 5.3 for details | | | |
| Test results: | Passed | | | |



Measurement Data:

| Product name: | 3G Smart Phone | Product model: | PLATINUM H5 |
|-----------------|------------------|----------------|-----------------------|
| Test by: | YT | Test mode: | BLE Tx mode |
| Test frequency: | 150 kHz ~ 30 MHz | Phase: | Line |
| Test voltage: | AC 120 V/60 Hz | Environment: | Temp: 22.5℃ Huni: 55% |



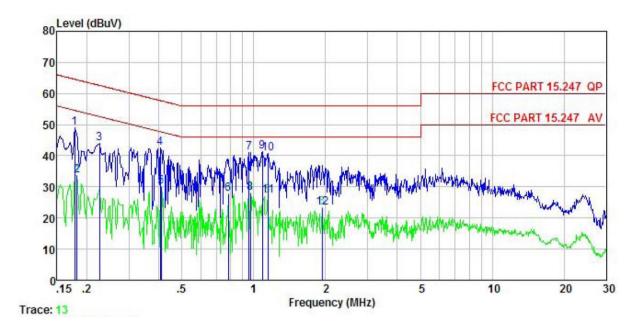
| Freq | Read Level | LISN Factor | Cable Loss | Level | Limit Line | Over Limit | Remark |
|-------|---|---|--|--|---|--|---|
| MHz | ₫₿u₹ | <u>dB</u> | dB | dBu₹ | dBu₹ | <u>d</u> B | |
| 0.322 | 26.27 | -0.53 | 10.74 | 36.39 | | | |
| | 26.32 | | 10.72 | | 48.17 | -11.29 | Average |
| 0.402 | 38.42 | -0.48 | 10.72 | 49.08 | 57.81 | -8.73 | QP |
| 0.410 | 26.57 | -0.47 | 10.72 | 37.15 | 47.64 | -10.49 | Average |
| 0.788 | 33.84 | -0.56 | 10.81 | 43.96 | 56.00 | -12.04 | QP |
| 0.788 | 20.75 | -0.56 | 10.81 | 30.87 | 46.00 | -15.13 | Average |
| 1.388 | 33.42 | -0.57 | 10.91 | 43.85 | 56.00 | -12.15 | QP |
| | | | 10.92 | | | | |
| 1.878 | | | 10.95 | | | | |
| 2,309 | | | | | | | |
| | | | | | | | |
| 3.399 | 28.93 | -0.42 | 10.91 | 39.28 | | | 2 8 7 7 3 colos (il.) |
| | MHz 0. 322 0. 385 0. 402 0. 410 0. 788 0. 788 1. 388 1. 433 1. 878 2. 309 2. 358 | MHz dBuV 0.322 26.27 0.385 26.32 0.402 38.42 0.410 26.57 0.788 33.84 0.788 20.75 1.388 33.42 1.433 20.16 1.878 30.40 2.309 18.85 2.358 31.25 | MHz dBuV dB 0.322 26.27 -0.53 0.385 26.32 -0.49 0.402 38.42 -0.48 0.410 26.57 -0.47 0.788 33.84 -0.56 0.788 20.75 -0.56 1.388 33.42 -0.57 1.433 20.16 -0.56 1.878 30.40 -0.52 2.309 18.85 -0.48 2.358 31.25 -0.48 | MHz dBuV dB dB 0.322 26.27 -0.53 10.74 0.385 26.32 -0.49 10.72 0.402 38.42 -0.48 10.72 0.410 26.57 -0.47 10.72 0.788 33.84 -0.56 10.81 0.788 20.75 -0.56 10.81 1.388 33.42 -0.57 10.91 1.433 20.16 -0.56 10.92 1.878 30.40 -0.52 10.95 2.309 18.85 -0.48 10.95 2.358 31.25 -0.48 10.94 | MHz dBuV dB dB dBuV 0.322 26.27 -0.53 10.74 36.39 0.385 26.32 -0.49 10.72 36.88 0.402 38.42 -0.48 10.72 49.08 0.410 26.57 -0.47 10.72 37.15 0.788 33.84 -0.56 10.81 43.96 0.788 20.75 -0.56 10.81 30.87 1.388 33.42 -0.57 10.91 43.85 1.433 20.16 -0.56 10.92 30.58 1.878 30.40 -0.52 10.95 40.58 2.309 18.85 -0.48 10.95 29.04 2.358 31.25 -0.48 10.94 41.43 | MHz dBuV dB dB dBuV dBuV 0.322 26.27 -0.53 10.74 36.39 49.66 0.385 26.32 -0.49 10.72 36.88 48.17 0.402 38.42 -0.48 10.72 49.08 57.81 0.410 26.57 -0.47 10.72 37.15 47.64 0.788 33.84 -0.56 10.81 43.96 56.00 0.788 20.75 -0.56 10.81 30.87 46.00 1.388 33.42 -0.57 10.91 43.85 56.00 1.433 20.16 -0.56 10.92 30.58 46.00 1.878 30.40 -0.52 10.95 40.58 56.00 2.309 18.85 -0.48 10.95 29.04 46.00 2.358 31.25 -0.48 10.94 41.43 56.00 | MHz dBuV dB dB dBuV dBuV dB 0.322 26.27 -0.53 10.74 36.39 49.66 -13.27 0.385 26.32 -0.49 10.72 36.88 48.17 -11.29 0.402 38.42 -0.48 10.72 49.08 57.81 -8.73 0.410 26.57 -0.47 10.72 37.15 47.64 -10.49 0.788 33.84 -0.56 10.81 43.96 56.00 -12.04 0.788 20.75 -0.56 10.81 30.87 46.00 -15.13 1.388 33.42 -0.57 10.91 43.85 56.00 -12.15 1.433 20.16 -0.56 10.92 30.58 46.00 -15.42 1.878 30.40 -0.52 10.95 40.58 56.00 -15.42 2.309 18.85 -0.48 10.95 29.04 46.00 -16.96 2.358 31.25 -0 |

Notes:

- 1. An initial pre-scan was performed on the line and neutral lines with peak detector.
- 2. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
- Final Level =Receiver Read level + LISN Factor + Aux Factor + Cable Loss.



| Product name: | 3G Smart Phone | Product model: | PLATINUM H5 |
|-----------------|------------------|----------------|-----------------------|
| Test by: | YT | Test mode: | BLE Tx mode |
| Test frequency: | 150 kHz ~ 30 MHz | Phase: | Neutral |
| Test voltage: | AC 120 V/60 Hz | Environment: | Temp: 22.5℃ Huni: 55% |



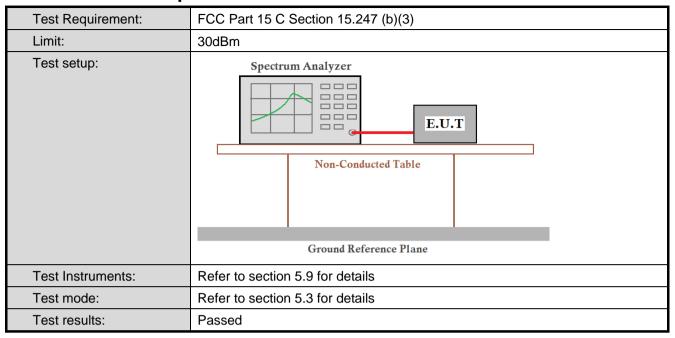
| | Freq | Read Level | LISN Factor | Cable Loss | Level | Limit Line | Over Limit | Remark |
|--------------------------------------|-------|---------------|----------------|---------------|-------|---------------|---------------|---------|
| _ | MHz | dBu∀ | <u>dB</u> | dB | dBu₹ | —dBu√ | <u>ab</u> | |
| 1 | 0.178 | 38.84 | -0.68 | 10.77 | 48.93 | 64.59 | -15.66 | QP |
| 2 | 0.182 | 23.71 | -0.68 | 10.77 | 33.80 | 54.42 | -20.62 | Average |
| 3 | 0.226 | 33.82 | -0.67 | 10.75 | 43.90 | 62.61 | -18.71 | QP |
| 4 | 0.406 | 32.54 | -0.63 | 10.72 | 42.58 | 57.73 | -15.15 | QP |
| 1 2 3 4 5 6 7 8 | 0.410 | 19.96 | -0.63 | 10.72 | 30.00 | 47.64 | -17.64 | Average |
| 6 | 0.783 | 17.44 | -0.65 | 10.81 | 27.65 | 46.00 | -18.35 | Average |
| 7 | 0.958 | 30.85 | -0.67 | 10.86 | 41.11 | 56.00 | -14.89 | QP |
| 8 | 0.968 | 17.84 | -0.68 | 10.86 | 28.10 | 46.00 | -17.90 | Average |
| 9 | 1.088 | 30.94 | -0.68 | 10.88 | 41.23 | 56.00 | -14.77 | QP |
| 10 | 1.147 | 30.54 | -0.69 | 10.89 | 40.84 | 56.00 | -15.16 | QP |
| 11 | 1.147 | 16.77 | -0.69 | 10.89 | 27.07 | 46.00 | -18.93 | Average |
| 12 | 1.939 | 12.97 | -0.71 | 10.96 | 23.39 | 46.00 | -22.61 | Average |

Notes:

- 1. An initial pre-scan was performed on the line and neutral lines with peak detector.
- 2. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
- 3. Final Level = Receiver Read level + LISN Factor + Aux Factor + Cable Loss.



6.3 Conducted Output Power

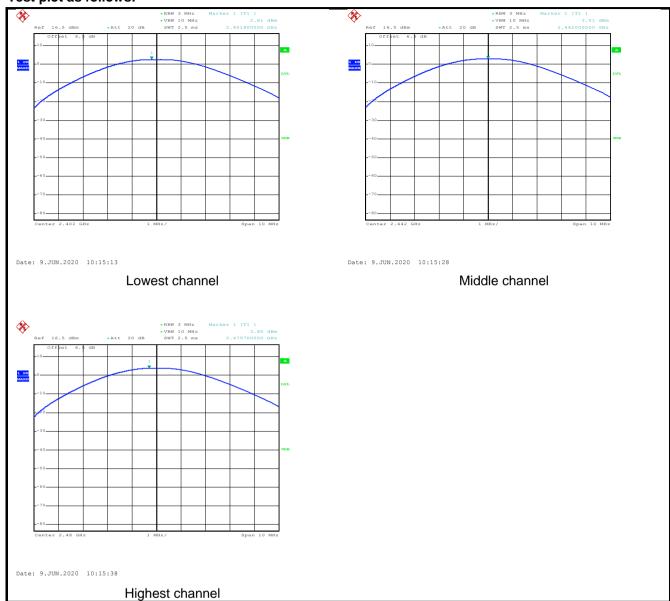


Measurement Data:

| Test CH | Maximum Conducted Output Power (dBm) | Limit(dBm) | Result |
|---------|--------------------------------------|------------|--------|
| Lowest | 2.61 | | |
| Middle | 3.01 | 30.00 | Pass |
| Highest | 3.80 | | |

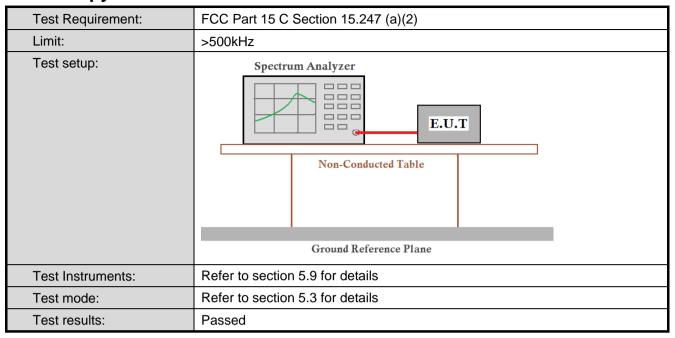


Test plot as follows:





6.4 Occupy Bandwidth

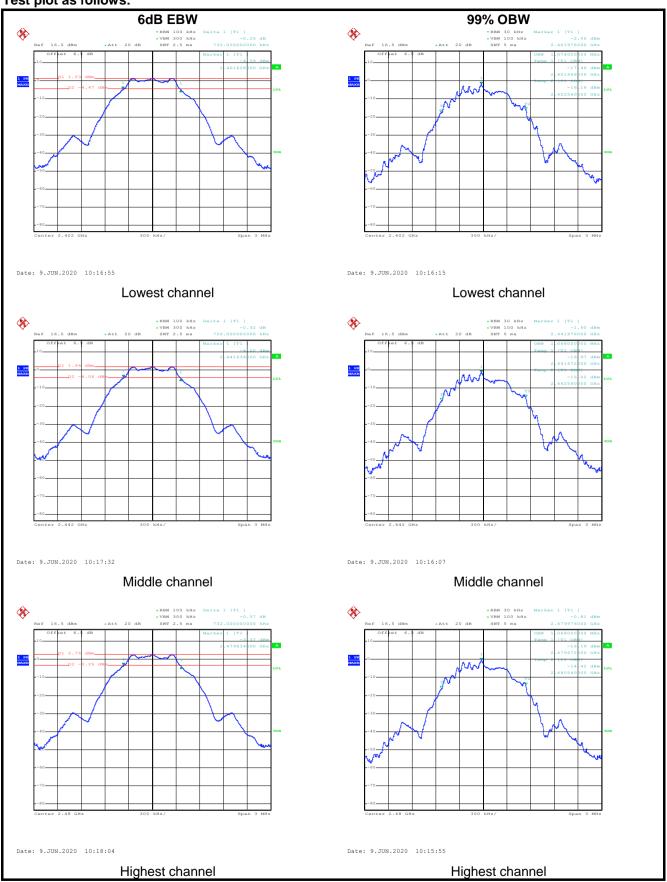


Measurement Data:

| Test CH | 6dB Emission Bandwidth (MHz) | Limit(kHz) | Result | |
|---------|------------------------------|------------|--------|--|
| Lowest | 0.732 | | | |
| Middle | 0.726 | >500 | Pass | |
| Highest | 0.732 | | | |
| Test CH | 99% Occupy Bandwidth (MHz) | Limit(kHz) | Result | |
| Lowest | 1.074 | | | |
| Middle | 1.068 | N/A | N/A | |
| Highest | 1.068 | | | |



Test plot as follows:





6.5 Power Spectral Density

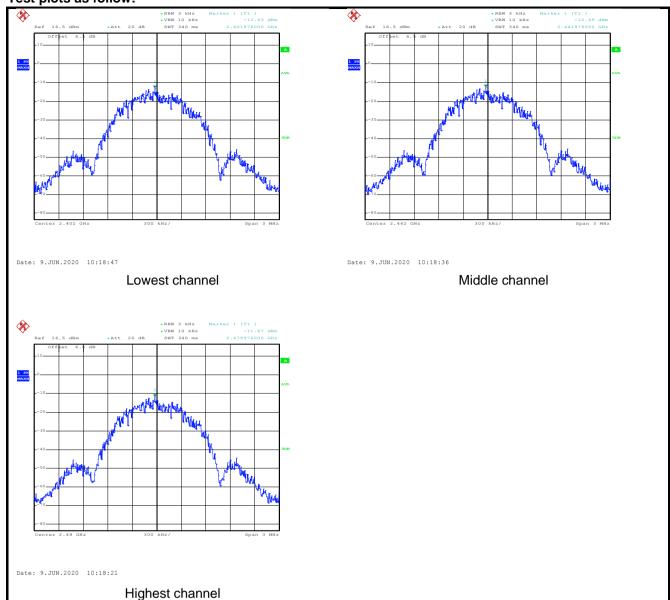
| Test Requirement: | FCC Part 15 C Section 15.247 (e) | | | |
|-------------------|---|--|--|--|
| Limit: | 8 dBm/3kHz | | | |
| Test setup: | Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane | | | |
| Test Instruments: | Refer to section 5.9 for details | | | |
| Test mode: | Refer to section 5.3 for details | | | |
| Test results: | Passed | | | |

Measurement Data:

| Test CH | Power Spectral Density (dBm/3kHz) | Limit (dBm/3kHz) | Result |
|---------|--------------------------------------|---------------------|--------|
| Lowest | -12.93 | | |
| Middle | -12.49 | 8.00 | Pass |
| Highest | -11.67 | | |



Test plots as follow:





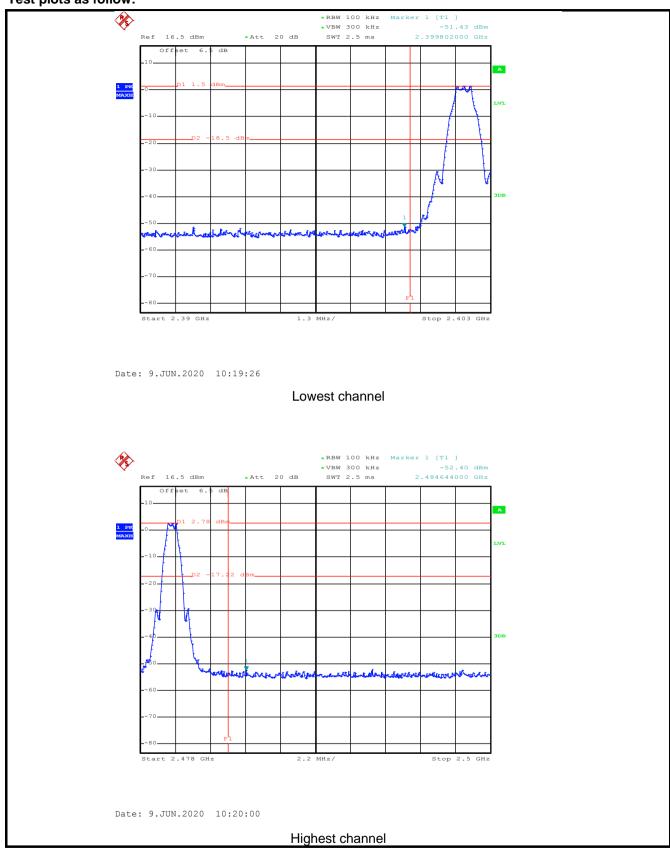
6.6 Band Edge

6.6.1 Conducted Emission Method

| Test Requirement: | FCC Part 15 C Section 15.247 (d) | | | | |
|-------------------|---|--|--|--|--|
| Limit: | In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement. | | | | |
| Test setup: | Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane | | | | |
| Test Instruments: | Refer to section 5.9 for details | | | | |
| Test mode: | Refer to section 5.3 for details | | | | |
| Test results: | Passed | | | | |



Test plots as follow:



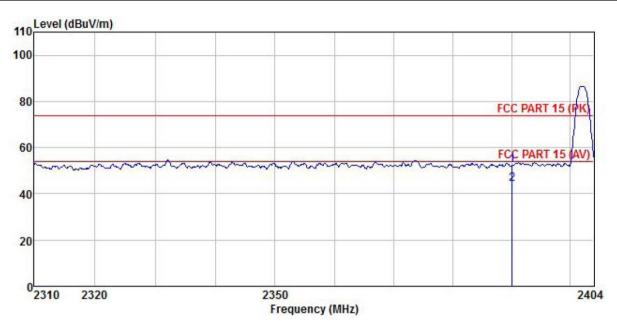


6.6.2 Radiated Emission Method

| Test Requirement: | FCC Part 15 (| FCC Part 15 C Section 15.205 and 15.209 | | | | | | | |
|-----------------------|--|---|--|---------------|------------------------|--|--|--|--|
| Test Frequency Range: | 2310 MHz to 2 | 2390 MHz and | 2483.5MHz to 2 | 2500 MHz | | | | | |
| Test Distance: | 3m | | | | | | | | |
| Receiver setup: | Frequency | Detector | RBW | VBW | Remark | | | | |
| | Above 1GHz | Peak | 1MHz | 3MHz | Peak Value | | | | |
| | | RMS | 1MHz | 3MHz | Average Value | | | | |
| Limit: | Frequer | icy Lii | mit (dBuV/m @3 54.00 | | Remark verage Value | | | | |
| | Above 10 | GHz — | 74.00 | | Peak Value | | | | |
| Test Procedure: | The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. If the emission level of the EUT in peak mode was 10 dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10 dB margin would be re-tested one by one using peak, quasipeak or average method as specified and then reported in a data sheet. | | | | | | | | |
| Test setup: | AE Washington | Test Receiver | Horn Antenna Reference Plane Pre- Amplifer Cont | Antenna Tower | | | | | |
| Test Instruments: | Refer to section | on 5.9 for detai | ls | | | | | | |
| Test mode: | Refer to section | on 5.3 for detai | ls | | | | | | |
| Test results: | Passed | | | | | | | | |
| | | | | | | | | | |



| Product Name: | 3G Smart Phone | Product Model: | PLATINUM H5 |
|---------------|----------------|----------------|---------------------|
| Test By: | YT | Test mode: | BLE Tx mode |
| Test Channel: | Lowest channel | Polarization: | Vertical |
| Test Voltage: | AC 120/60Hz | Environment: | Temp: 24℃ Huni: 57% |

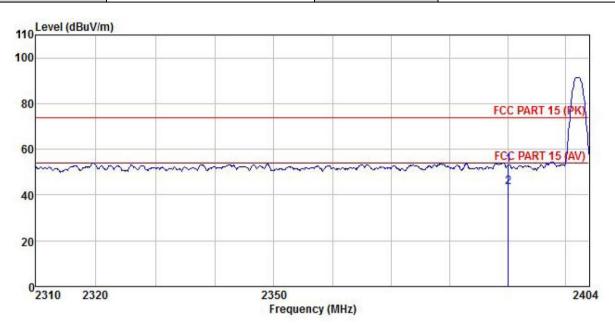


| | Freq | | Antenna Factor | | | | | | | |
|-----|----------------------|------|-------------------|-----------|------------|-----------|---------------------|--------|-----------|--|
| | MHz | dBu∜ | — <u>dB</u> /m | <u>dB</u> | <u>d</u> B | <u>dB</u> | $\overline{dBuV/m}$ | dBuV/m | <u>dB</u> | |
| 1 2 | 2390.000 2390.000 | | | | | | | | | |

- 1. Final Level = Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor.
- 2. The emission levels of other frequencies are lower than the limit 20dB and not show in test report.



| Product Name: | 3G Smart Phone | Product Model: | PLATINUM H5 |
|---------------|----------------|----------------|---------------------|
| Test By: | YT | Test mode: | BLE Tx mode |
| Test Channel: | Lowest channel | Polarization: | Horizontal |
| Test Voltage: | AC 120/60Hz | Environment: | Temp: 24℃ Huni: 57% |

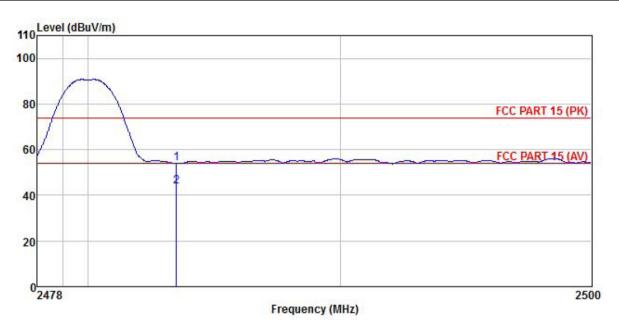


| | Freq | | | | | x Preamp r Factor Level | | | | |
|-----|----------------------|------|----------------|--|----|----------------------------|---------------------|--------|-----------|--|
| | MHz | dBu∇ | — <u>d</u> B/m | | дБ | <u>dB</u> | $\overline{dBuV/m}$ | dBuV/m | <u>dB</u> | |
| 1 2 | 2390.000 2390.000 | | | | | | | | | |

- 1. Final Level = Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor.
- 2. The emission levels of other frequencies are lower than the limit 20dB and not show in test report.



| Product Name: | 3G Smart Phone | Product Model: | PLATINUM H5 |
|---------------|-----------------|----------------|---------------------|
| Test By: | YT | Test mode: | BLE Tx mode |
| Test Channel: | Highest channel | Polarization: | Vertical |
| Test Voltage: | AC 120/60Hz | Environment: | Temp: 24℃ Huni: 57% |

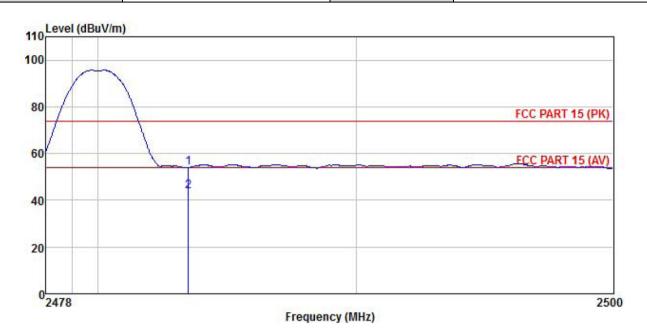


| | Freq | ReadA Freq Level | | | | Preamp Factor | | | Over Limit | |
|-----|----------------------|---------------------|------|----|----|------------------|--------|---------------------|---------------|--|
| | MHz | dBu∜ | dB/m | ₫B | dB | dB | dBuV/m | $\overline{dBuV/m}$ | dB | |
| 1 2 | 2483.500 2483.500 | | | | | | | | | |

- 1. Final Level = Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor.
- 2. The emission levels of other frequencies are lower than the limit 20dB and not show in test report.



| Product Name: | 3G Smart Phone | Product Model: | PLATINUM H5 |
|---------------|-----------------|----------------|---------------------|
| Test By: | YT | Test mode: | BLE Tx mode |
| Test Channel: | Highest channel | Polarization: | Horizontal |
| Test Voltage: | AC 120/60Hz | Environment: | Temp: 24℃ Huni: 57% |



| | Freq | | Antenna Factor | | | | | | |
|-----|----------------------|------|-------------------|---------------|-----------|---------------------|--------|-----------|--|
| | MHz | dBu∇ | | <u>ab</u> | <u>dB</u> | $\overline{dBuV/m}$ | dBuV/m | <u>dB</u> | |
| 1 2 | 2483.500 2483.500 | | | | | | | | |

- 1. Final Level = Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor.
- 2. The emission levels of other frequencies are lower than the limit 20dB and not show in test report.



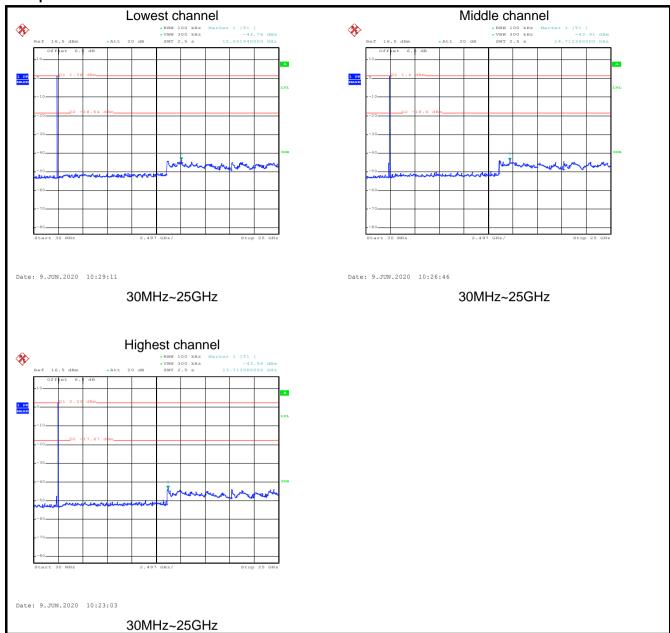
6.7 Spurious Emission

6.7.1 Conducted Emission Method

| Test Requirement: | FCC Part 15 C Section 15.247 (d) | | | | | | | | |
|-------------------|---|--|--|--|--|--|--|--|--|
| Limit: | In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that it produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement. | | | | | | | | |
| Test setup: | Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane | | | | | | | | |
| Test Instruments: | Refer to section 5.9 for details | | | | | | | | |
| Test mode: | Refer to section 5.3 for details | | | | | | | | |
| Test results: | Passed | | | | | | | | |



Test plot as follows:

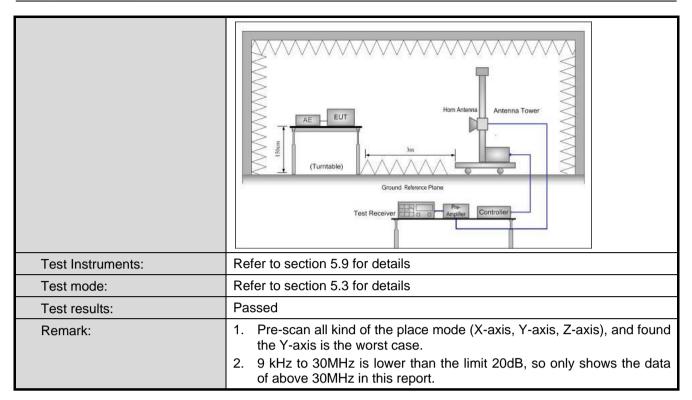




6.7.2 Radiated Emission Method

| Test Requirement: | FCC Part 15 C | Section 15.2 | 05 and 15.209 | | | | |
|-----------------------|--|--|---|--|--|--|--|
| Test Frequency Range: | 9kHz to 25GHz | | | | | | |
| Test Distance: | 3m | | | | | | |
| Receiver setup: | Frequency | Detector | RBW | VB | sW | W Remark | |
| | 30MHz-1GHz | Quasi-peak | 120KHz | 300KHz | | Quasi-peak Value | |
| | Above 1GHz | Peak | 1MHz | 3M | Hz | Peak Value | |
| | Above IGIIZ | RMŞ | 1MHz | 3M | Hz | Average Value | |
| Limit: | Frequency | / L | imit (dBuV/m @ | 23m) | | Remark | |
| | 30MHz-88M | | 40.0 | | | Quasi-peak Value | |
| | 88MHz-216N | | 43.5 | | | Quasi-peak Value | |
| | 216MHz-960N | | 46.0 | | | Quasi-peak Value | |
| | 960MHz-1G | Hz | 54.0 | | C | Quasi-peak Value | |
| | Above 1GH | lz 🖳 | 54.0 | | | Average Value | |
| Test Procedure: | | | 74.0 | • | | Peak Value table 0.8m(below | |
| | highest rad The EUT antenna, w tower. The antenn the ground Both horize make the n For each s case and t meters and to find the n The test-re Specified E If the emiss the limit sp of the EUT have 10 dE | iation. was set 3 r hich was mo na height is to determine that and veneasurement suspected en the anter the rota tab maximum reaseceiver system sandwidth with sion level of ecified, then would be rease margin wou | neters away united on the to varied from one the maximurtical polarization. The enna was tuned ading. The was turned ading. The was set the EUT in petesting could be ported. Other ld be re-tested | from the top of a top | ne intervariant of the areas arranged areas areas degree areas ped | the position of the efference-receiving ble-height antenna four meters above the field strength. antenna are set to anged to its worst from 1 meter to 4 ees to 360 degrees tect Function and is 10 dB lower than and the peak values ssions that did not using peak, quasi-reported in a data | |
| Test setup: | EUT | 3m < 4m | | | Antenna Search Antenn Test ceiver — | 1 | |



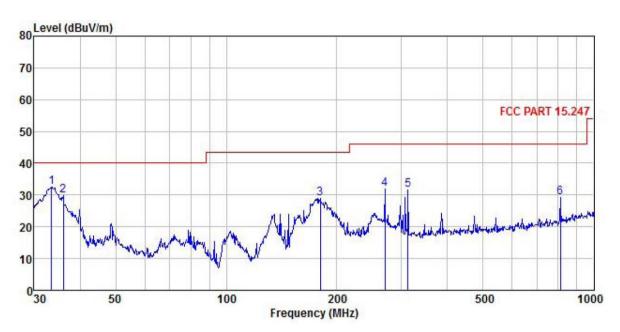




Measurement Data (worst case):

Below 1GHz:

| Product Name: | 3G Smart Phone | Product Model: | PLATINUM H5 |
|-----------------|----------------|----------------|---------------------|
| Test By: | YT | Test mode: | BLE Tx mode |
| Test Frequency: | 30 MHz ~ 1 GHz | Polarization: | Vertical |
| Test Voltage: | AC 120/60Hz | Environment: | Temp: 24℃ Huni: 57% |



| | Freq | | Intenna Factor | | | Preamp Factor | | Limit Line | Over Limit | Remark |
|-----------------------|--|--|--|--|--------------------------------------|----------------------------------|-------------------------|-------------------------|---|----------------------|
| - | MHz | dBu₹ | | <u>dB</u> | <u>d</u> B | <u>dB</u> | $\overline{dBuV/m}$ | $\overline{dBuV/m}$ | <u>d</u> B | |
| 1 2 3 4 5 | 33.445 36.001 180.017 270.375 312.179 810.265 | 49.73 46.67 40.33 40.89 40.32 35.06 | 12.36 12.64 16.90 18.58 18.73 21.01 | 0.36 0.34 0.68 0.82 0.88 1.41 | 0.00 0.00 0.00 0.00 0.00 | 29.94 28.97 28.50 28.48 | 28.94 31.79 31.45 | 43.50 46.00 46.00 | -7.51 -10.29 -14.56 -14.21 -14.55 -16.68 | QP QP QP QP |

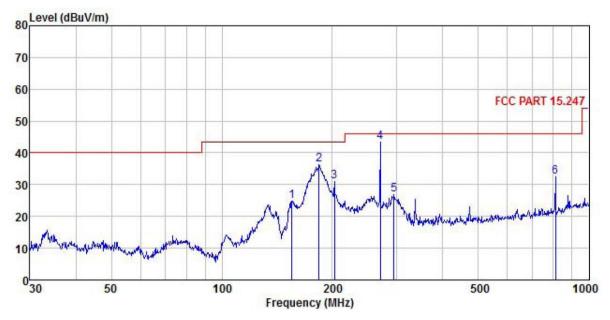
Remark

^{1.} Final Level = Receiver Read level + Antenna Factor + Cable Loss - Preamplifier Factor.

^{2.} The emission levels of other frequencies are lower than the limit 20dB and not show in test report.



| Product Name: | 3G Smart Phone | Product Model: | PLATINUM H5 |
|-----------------|----------------|----------------|---------------------|
| Test By: | YT | Test mode: | BLE Tx mode |
| Test Frequency: | 30 MHz ~ 1 GHz | Polarization: | Horizontal |
| Test Voltage: | AC 120/60Hz | Environment: | Temp: 24℃ Huni: 57% |
| | | | |



| | Freq | ReadAntenna Level Factor | | | | Preamp Factor | | | Over Limit | Remark |
|-----------------------|--|--|----------------------------------|--|----------------------|----------------------------------|----------------------------------|----------------------------------|--|----------------------|
| | MHz | dBu₹ | dB/m | | <u>ab</u> | <u>dB</u> | $\overline{dBuV/m}$ | dBuV/m | <u>dB</u> | |
| 1 2 3 4 5 | 155. 364 183. 844 202. 810 270. 375 294. 114 810. 265 | 38. 76 47. 33 40. 64 52. 63 35. 84 38. 32 | 17.12 18.31 18.58 18.68 | 0.62 0.69 0.72 0.82 0.85 1.41 | 0.00 0.00 0.00 | 28.94 28.81 28.50 28.46 | 36.20 30.86 43.53 26.91 | 43.50 43.50 46.00 46.00 | -18.77 -7.30 -12.64 -2.47 -19.09 -13.42 | QP QP QP QP |

^{1.} Final Level = Receiver Read level + Antenna Factor + Cable Loss - Preamplifier Factor.

^{2.} The emission levels of other frequencies are lower than the limit 20dB and not show in test report.



Above 1GHz

| | Test channel: Lowest channel | | | | | | | | | | | |
|----------------------|------------------------------|-----------------------------|-----------------------|-----------------------|--------------------------|-------------------|---------------------------|-----------------------|--------------|--|--|--|
| Detector: Peak Value | | | | | | | | | | | | |
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Aux Factor (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization | | | |
| 4804.00 | 52.16 | 30.78 | 6.80 | 2.44 | 41.81 | 50.37 | 74.00 | -23.63 | Vertical | | | |
| 4804.00 | 50.41 | 30.78 | 6.80 | 2.44 | 41.81 | 48.62 | 74.00 | -25.38 | Horizontal | | | |
| | | | | Detector: | Average Va | alue | | | | | | |
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Aux Factor (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization | | | |
| 4804.00 | 45.52 | 30.78 | 6.80 | 2.44 | 41.81 | 43.73 | 54.00 | -10.27 | Vertical | | | |
| 4804.00 | 46.33 | 30.78 | 6.80 | 2.44 | 41.81 | 44.54 | 54.00 | -9.46 | Horizontal | | | |
| | | | | | | | | | | | | |

| Test channel: Middle channel | | | | | | | | | | |
|------------------------------|-------------------------|-----------------------------|-----------------------|-----------------------|--------------------------|-------------------|---------------------------|-----------------------|--------------|--|
| Detector: Peak Value | | | | | | | | | | |
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Aux Factor (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization | |
| 4884.00 | 51.42 | 30.96 | 6.86 | 2.47 | 41.84 | 49.87 | 74.00 | -24.13 | Vertical | |
| 4884.00 | 52.79 | 30.96 | 6.86 | 2.47 | 41.84 | 51.24 | 74.00 | -22.76 | Horizontal | |
| Detector: Average Value | | | | | | | | | | |
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Aux Factor (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization | |
| 4884.00 | 42.65 | 30.96 | 6.86 | 2.47 | 41.84 | 41.10 | 54.00 | -12.90 | Vertical | |
| 4884.00 | 43.97 | 30.96 | 6.86 | 2.47 | 41.84 | 42.42 | 54.00 | -11.58 | Horizontal | |

| Test channel: Highest channel | | | | | | | | | | |
|-------------------------------|-------------------------|-----------------------------|-----------------------|-----------------------|--------------------------|-------------------|---------------------------|-----------------------|--------------|--|
| Detector: Peak Value | | | | | | | | | | |
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Aux Factor (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization | |
| 4960.00 | 53.62 | 31.11 | 6.91 | 2.49 | 41.87 | 52.26 | 74.00 | -21.74 | Vertical | |
| 4960.00 | 55.47 | 31.11 | 6.91 | 2.49 | 41.87 | 54.11 | 74.00 | -19.89 | Horizontal | |
| Detector: Average Value | | | | | | | | | | |
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Aux Factor (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization | |
| 4960.00 | 46.51 | 31.11 | 6.91 | 2.49 | 41.87 | 45.15 | 54.00 | -8.85 | Vertical | |
| 4960.00 | 45.97 | 31.11 | 6.91 | 2.49 | 41.87 | 44.61 | 54.00 | -9.39 | Horizontal | |
| | | | | | | | | | | |

Remark:

^{1.} Final Level = Receiver Read level + Antenna Factor + Cable Loss + Aux Factor - Preamplifier Factor.

^{2.} The emission levels of other frequencies are lower than the limit 20dB and not show in test report.