

RADIO TEST REPORT FCC ID: 2ABOSSKYFUEGO40M

| Product: | Smart phone |
|---------------|-----------------------|
| Trade Name: | SKY |
| Model No.: | Fuego 4.0M |
| Serial Model: | N/A |
| Report No.: | NTEK-2016NT11049703F1 |
| Issue Date: | 11 Nov. 2016 |

Prepared for

Sky Phone LLC 1348 Washington Av. Suite 350, Miami Beach, Florida 33139, United States

Prepared by

NTEK TESTING TECHNOLOGY CO., LTD. 1/F, Building E, Fenda Science Park, Sanwei Community, Xixiang Street Bao'an District, Shenzhen 518126 P.R. China Tel.: +86-755-6115 6588 Fax.: +86-755-6115 6599 Website:http://www.ntek.org.cn



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1 TEST RESULT CERTIFICATION

| Applicant's name: | Sky Phone LLC | | |
|------------------------------|--|--|--|
| Address: | 1348 Washington Av. Suite 350, Miami Beach, Florida 33139, United States | | |
| Manufacture's Name | Shenzhen OVVI Technology CO., Ltd. | | |
| Address: | Room 201, Block D, Number 16 LangShan Road, North of Scienc Fechnology Park | | |
| | | | |
| Product description | | | |
| Product name: | Smart phone | | |
| Model and/or type reference: | Fuego 4.0M | | |
| Serial Model: | N/A | | |

Measurement Procedure Used:

APPLICABLE STANDARDS

| STANDARD/ TEST PROCEDURE | TEST RESULT |
|---|-------------|
| FCC 47 CFR Part 2, Subpart J:2016 FCC 47 CFR Part 15, Subpart C:2016 KDB 174176 D01 Line Conducted FAQ v01r01 ANSI C63.10-2013 | Complied |

This device described above has been tested by NTEK Testing Technology Co., Ltd., and the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report.

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The test results of this report relate only to the tested sample identified in this report.

| Date of Test | : | 04 Nov. 2016 ~ 11 Nov. 2016 |
|----------------------|---|-----------------------------|
| Testing Engineer | : | lake. Xie |
| | | (Lake Xie) |
| Technical Manager | : | Jason Chon |
| | | (Jason Chen) |
| Authorized Signatory | | Sam. Chen |
| | • | (Sam Chen) |
| | | |
| | | |



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| | FCC Part15 (15.247), Subpart | С | |
|------------------|----------------------------------|---------|--------|
| Standard Section | Test Item | Verdict | Remark |
| 15.207 | Conducted Emission | PASS | |
| 15.247(c) | Radiated Spurious Emission | PASS | |
| 15.247(a)(1) | Hopping Channel Separation PASS | | |
| 15.247(b)(1) | Peak Output Power | PASS | |
| 15.247(a)(iii) | Number of Hopping Frequency PASS | | |
| 15.247(a)(iii) | Dwell Time PASS | | |
| 15.247(a)(1) | Bandwidth PASS | | |
| 15.205 | Band Edge Emission | PASS | |
| 15.203 | Antenna Requirement PASS | | |

Remark:

1. "N/A" denotes test is not applicable in this Test Report.

All test items were verified and recorded according to the standards and without any deviation during the test.

 This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B, recorded in a separate test report.



3 FACILITIES AND ACCREDITATIONS

3.1 FACILITIES

All measurement facilities used to collect the measurement data are located at

1/F, Building E, Fenda Science Park, Sanwei Community, Xixiang Street, Bao'an District, Shenzhen P.R. China.

The sites are constructed in conformance with the requirements of ANSI C63.7, ANSI C63.10 and CISPR Publication 22.

3.2 LABORATORY ACCREDITATIONS AND LISTINGS

| 0.2 | LABOILAIOILI | ~ |
|------|--------------|---|
| Site | Description | |
| EMO | C Lab. | |
| | | |

| EMC Lab. | : | Accredited by CNAS, 2014.09.04 The certificate is valid until 2017.09.03 The Laboratory has been assessed and proved to be in compliance with CNAS-CL01:2006 (identical to ISO/IEC 17025:2005) The Certificate Registration Number is L5516. |
|-------------------------------|---|--|
| | | Accredited by FCC, September 6, 2013 The Certificate Registration Number is 238937. |
| | | Accredited by Industry Canada, August 29, 2012 The Certificate Registration Number is 9270A-1. |
| Name of Firm Site Location | : | NTEK Testing Technology Co., Ltd 1/F, Building E, Fenda Science Park, Sanwei Community, Xixiang Street, Bao'an District, Shenzhen P.R. China. |

3.3 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement $y\pm U$, where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of k=2, providing a level of confidence of approximately 95 %.

| No. | Item | Uncertainty | |
|-----|-------------------------------|-------------|--|
| 1 | Conducted Emission Test | ±1.38dB | |
| 2 | RF power, conducted | ±0.16dB | |
| 3 | Spurious emissions, conducted | ±0.21dB | |
| 4 | All emissions, radiated(<1G) | ±4.68dB | |
| 5 | All emissions, radiated(>1G) | ±4.89dB | |
| 6 | Temperature | ±0.5°C | |
| 7 | Humidity | ±2% | |



4 GENERAL DESCRIPTION OF EUT

| Product Feature and Specification | | |
|-----------------------------------|--|--|
| Equipment | Smart phone | |
| Trade Name | SKY | |
| FCC ID | 2ABOSSKYFUEGO40M | |
| Model No. | Fuego 4.0M | |
| Serial Model | N/A | |
| Model Difference | N/A | |
| Operating Frequency | 2402MHz~2480MHz | |
| Modulation | GFSK,π/4-DQPSK, 8DPSK | |
| Bluetooth Version | BT V3.0(BR+EDR) | |
| Number of Channels | 79 Channels | |
| Antenna Type | FPCB Antenna | |
| Antenna Gain | 1 dBi | |
| | DC supply: DC 3.7V/1150mAh from Battery or DC 5V from Adapter. | |
| Power supply | Adapter supply: Model:Fuego 4.0M Input:AC 100~240V 50/60Hz 0.15A Output:DC 5V,500mA | |
| HW Version | JY729_MB_V3 | |
| SW Version | Android 4.4 | |
| | | |

Note: Based on the application, features, or specification exhibited in User's Manual, the EUT is considered as an ITE/Computing Device. More details of EUT technical specification, please refer to the User's Manual.



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| Revision History | | | |
|-----------------------|---------|-------------------------|--------------|
| Report No. | Version | Description | Issued Date |
| NTEK-2016NT11049703F1 | Rev.01 | Initial issue of report | Nov 11, 2016 |
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5 DESCRIPTION OF TEST MODES

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

The Transmitter was operated in the normal operating mode. The TX frequency was fixed which was for the purpose of the measurements.

Test of channel included the lowest and middle and highest frequency to perform the test, then record on this report.

Those data rates (1Mbps for GFSK modulation; 2Mbps for π /4-DQPSK modulation; 3Mbps for 8DPSK modulation) were used for all test.

The EUT was pretested with 3 orientations placed on the table for the radiated emission measurement -X, Y, and Z-plane. The X-plane results were found as the worst case and were shown in this report.

Carrier Frequency and Channel list:

| Channel | Frequency(MHz) | |
|---------|----------------|--|
| 0 | 2402 | |
| 1 | 2403 | |
| | | |
| 39 | 2441 | |
| 40 | 2442 | |
| | | |
| 77 | 2479 | |
| 78 | 2480 | |

Note: fc=2402MHz+k \times 1MHz k=0 to 78

The following summary table is showing all test modes to demonstrate in compliance with the standard.

| For AC Conducted Emission | | | | | | |
|--|-----------------------------|--|--|--|--|--|
| Final Test Mode | Final Test Mode Description | | | | | |
| Mode 1 | Mode 1 normal link mode | | | | | |
| late: AC power line Conducted Emission was tested under maximum output power | | | | | | |

Note: AC power line Conducted Emission was tested under maximum output power.

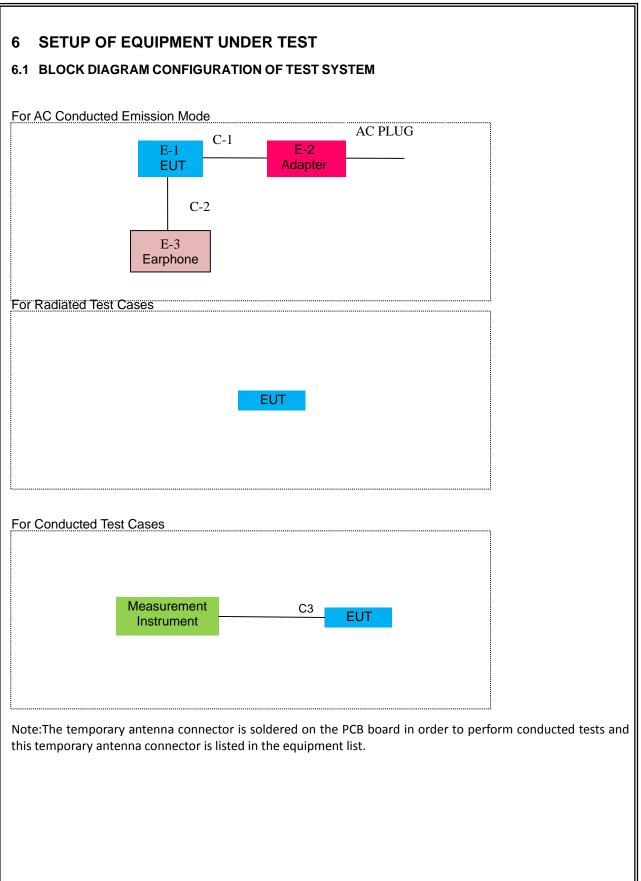
| | For Radiated Test Cases | | | | |
|-----------------|-------------------------|--|--|--|--|
| Final Test Mode | Description | | | | |
| Mode 1 | normal link mode | | | | |
| Mode 2 | CH00(2402MHz) | | | | |
| Mode 3 | CH39(2441MHz) | | | | |
| Mode 4 | CH78(2480MHz) | | | | |

Note: For radiated test cases, the worst mode data rate 1Mbps was reported only, because this data rate has the highest RF output power at preliminary tests, and no other significantly frequencies found in conducted spurious emission.

| For Conducted Test Cases | | | | | |
|-----------------------------|--|--|--|--|--|
| Final Test Mode Description | | | | | |
| Mode 2 | Mode 2 CH00(2402MHz) | | | | |
| Mode 3 | Mode 3 CH39(2441MHz) | | | | |
| Mode 4 | Mode 4 CH78(2480MHz) | | | | |
| Mode 5 | Mode 5 Hopping mode | | | | |
| | g test program was provided and the EUT was programmed to be in continuously | | | | |
| transmitting mode. | | | | | |

1. EUT built-in battery-powered, fully-charged battery use of the test battery







6.2 SUPPORT EQUIPMENT

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

| Item | Equipment | Mfr/Brand | Model/Type No. | FCC ID | Note |
|------|-------------|-----------|----------------|----------------------|-------------|
| E-1 | Smart phone | SKY | Fuego 4.0M | 2ABOSSKYFUEGO 40M | EUT |
| E-2 | Adapter | / | Fuego 4.0M | N/A | Peripherals |
| E-3 | Earphone | N/A | L662 | N/A | Peripherals |
| | | | | | |
| | | | | | |

| Item | Cable Type | Shielded Type | Ferrite Core | Length |
|------|-------------|---------------|--------------|--------|
| C-1 | USB Cable | NO | NO | 1.2m |
| C-2 | Audio cable | NO | NO | 0.8m |
| C-3 | RF Cable | NO | NO | 0.5m |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

Notes:

(1) The support equipment was authorized by Declaration of Confirmation.

- (2) For detachable type I/O cable should be specified the length in cm in [Length] column.
- (3) "YES" is means "shielded" "with core"; "NO" is means "unshielded" "without core".



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6.3 EQUIPMENTS LIST FOR ALL TEST ITEMS

| DE | - | | |
|-----------|------|-----|-------|
| RF. | lest | eau | pment |
| | | | |

| | | | | | - | | |
|------|---|--------------|-----------------|------------|------------------|---------------------|-----------------------|
| Item | Kind of Equipment | Manufacturer | Type No. | Serial No. | Last calibration | Calibrated until | Calibration period |
| 1 | Spectrum Analyzer | Agilent | E4407B | MY45108040 | 2016.07.06 | 2017.07.05 | 1 year |
| 2 | Spectrum Analyzer | Agilent | N9020A | MY49100060 | 2015.11.19 | 2016.11.18 | 1 year |
| 3 | Test Receiver | R&S | ESPI | 101318 | 2016.06.07 | 2017.06.06 | 1 year |
| 4 | Bilog Antenna | TESEQ | CBL6111D | 31216 | 2016.07.06 | 2017.07.05 | 1 year |
| 5 | 50Ω Coaxial Switch | Anritsu | MP59B | 6200264416 | 2016.06.07 | 2017.06.06 | 1 year |
| 7 | Horn Antenna | EM | EM-AH-1018 0 | 2011071402 | 2016.07.06 | 2017.07.05 | 1 year |
| 8 | Horn Ant | Schwarzbeck | BBHA 9170 | 9170-181 | 2016.07.06 | 2017.07.05 | 1 year |
| 9 | Pre-Amplifier | EMC | EMC051835 SE | 980246 | 2016.08.09 | 2017.08.09 | 1 year |
| 10 | Loop Antenna | ARA | PLA-1030/B | 1029 | 2016.06.08 | 2017.06.07 | 1 year |
| 11 | Test Cable (9KHz-30MHz) | N/A | R-04 | N/A | 2016.06.06 | 2017.06.05 | 1 year |
| 12 | Test Cable (30MHz-1GHz) | N/A | R-01 | N/A | 2016.07.06 | 2017.07.05 | 1 year |
| 13 | Test Cable (1-18GHz) | N/A | R-02 | N/A | 2016.07.06 | 2017.07.05 | 1 year |
| 14 | High Test Cable(18G-40 GHz) | N/A | R-03 | N/A | 2016.06.06 | 2017.06.05 | 1 year |
| 15 | temporary antenna connector (Note) | NTS | R001 | N/A | N/A | N/A | N/A |

Note:

We will use the temporary antenna connector (soldered on the PCB board) When conducted test And this temporary antenna connector is listed within the instrument list



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| AC Co | nduction Test | equipment | | | | | |
|-------|--------------------------------|--------------|----------|------------|------------------|---------------------|--------------------|
| Item | Kind of Equipment | Manufacturer | Type No. | Serial No. | Last calibration | Calibrated until | Calibration period |
| 1 | Test Receiver | R&S | ESCI | 101160 | 2016.06.06 | 2017.06.05 | 1 year |
| 2 | LISN | R&S | ENV216 | 101313 | 2016.08.24 | 2017.08.23 | 1 year |
| 3 | LISN | EMCO | 3816/2 | 00042990 | 2016.08.24 | 2017.08.23 | 1 year |
| 4 | 50Ω Coaxial Switch | Anritsu | MP59B | 6200264417 | 2016.06.07 | 2017.06.06 | 1 year |
| 7 | Test Cable (9KHz-30MH z) | N/A | C01 | N/A | 2016.06.08 | 2017.06.07 | 1 year |
| 8 | Test Cable (9KHz-30MH z) | N/A | C02 | N/A | 2016.06.08 | 2017.06.07 | 1 year |
| 9 | Test Cable (9KHz-30MH z) | N/A | C03 | N/A | 2016.06.08 | 2017.06.07 | 1 year |
| | - | - | 1 | | 1 | 1 | |
| 1 | Attenuation | MCE | 24-10-34 | BN9258 | 2016.06.08 | 2017.06.07 | 1 year |

Note: Each piece of equipment is scheduled for calibration once a year.



7 TEST REQUIREMENTS

7.1 CONDUCTED EMISSIONS TEST

7.1.1 Applicable Standard

According to FCC Part 15.207(a) and KDB 174176 D01 Line Conducted FAQ v01r01

7.1.2 Conformance Limit

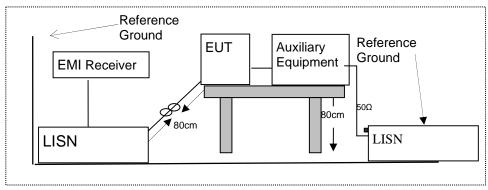
| Frequency (MHz) | Conducted Emission Limit | | | |
|-----------------|--------------------------|---------|--|--|
| Frequency(MHz) | Quasi-peak | Average | | |
| 0.15-0.5 | 66-56* | 56-46* | | |
| 0.5-5.0 | 56 | 46 | | |
| 5.0-30.0 | 60 | 50 | | |

Note: 1. *Decreases with the logarithm of the frequency

2. The lower limit shall apply at the transition frequencies

3. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.

7.1.3 Test Configuration



7.1.4 Test Procedure

According to the requirements in Section 13.1.4.1 of ANSI C63.10-2013 Conducted emissions the EUT measured in the frequency range between 0.15 MHz and 30 MHz using CISPR Quasi-Peak and average detector mode.

- 1. The EUT was placed 0.4 meter from the conducting wall of the shielding room.
- 2. The EUT was placed on a table which is 0.8m above ground plane.
- 3. Connect EUT to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- 4. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40cm long.
- 5. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- 6. LISN at least 80 cm from nearest part of EUT chassis.
- 7. The frequency range from 150KHz to 30MHz was searched.
- 8. Set the test-receiver system to Peak Detect Function and specified bandwidth(IF bandwidth=9KHz) with Maximum Hold Mode
- 9. For the actual test configuration, please refer to the related Item –EUT Test Photos.

7.1.5 Test Results

Pass



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7.1.6 Test Results

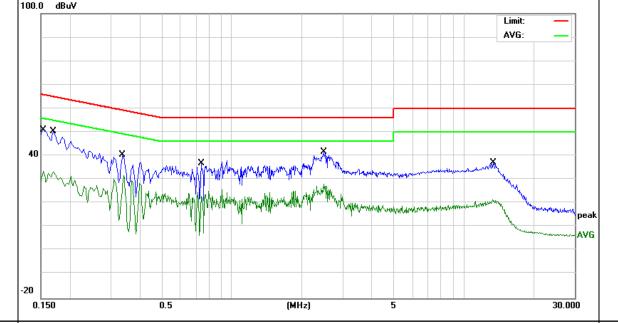
| EUT: | Smart phone | Model Name : | Fuego 4.0M |
|----------------|--------------------------------------|--------------------|------------|
| Temperature: | 26 °C | Relative Humidity: | 54% |
| Pressure: | 1010hPa | Phase : | L |
| Test Voltage : | DC 5.0V form Adapter AC 120V/60Hz | Test Mode: | Mode 1 |

| Frequency | Reading Level | Correct Factor | Measure-ment | Limits | Margin | Densede |
|-----------|---------------|----------------|--------------|--------|--------|---------|
| (MHz) | (dBµV) | (dB) | (dBµV) | (dBµV) | (dB) | Remark |
| 0.1539 | 40.93 | 10.13 | 51.06 | 65.78 | -14.72 | QP |
| 0.1539 | 23.48 | 10.13 | 33.61 | 55.78 | -22.17 | AVG |
| 0.1700 | 40.30 | 10.15 | 50.45 | 64.96 | -14.51 | QP |
| 0.1700 | 23.17 | 10.15 | 33.32 | 54.96 | -21.64 | AVG |
| 0.3420 | 30.39 | 10.04 | 40.43 | 59.15 | -18.72 | QP |
| 0.3420 | 21.65 | 10.04 | 31.69 | 49.15 | -17.46 | AVG |
| 0.7420 | 27.19 | 9.77 | 36.96 | 56.00 | -19.04 | QP |
| 0.7420 | 13.34 | 9.77 | 23.11 | 46.00 | -22.89 | AVG |
| 2.4980 | 31.99 | 9.76 | 41.75 | 56.00 | -14.25 | QP |
| 2.4980 | 18.29 | 9.76 | 28.05 | 46.00 | -17.95 | AVG |
| 13.3259 | 27.31 | 9.92 | 37.23 | 60.00 | -22.77 | QP |
| 13.3259 | 11.63 | 9.92 | 21.55 | 50.00 | -28.45 | AVG |

Remark:

All readings are Quasi-Peak and Average values.
 Factor = Insertion Loss + Cable Loss.

100.0 dBuV





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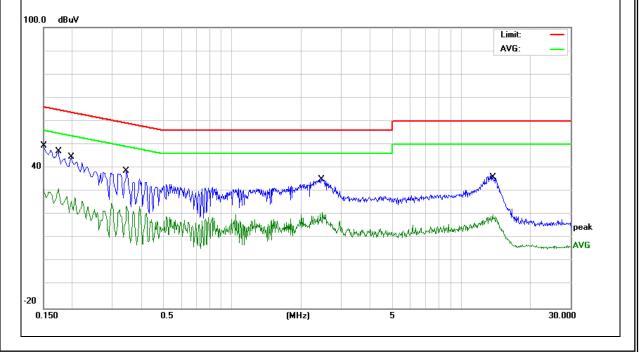
Report No.:NTEK-2016NT11049703F1

| EUT: | Smart phone | Model Name : | Fuego 4.0M |
|----------------|--------------------------------------|--------------------|------------|
| Temperature: | 26 ℃ | Relative Humidity: | 54% |
| Pressure: | 1010hPa | Phase : | N |
| Test Voltage : | DC 5.0V form Adapter AC 120V/60Hz | Test Mode: | Mode 1 |

| Frequency | Reading Level | Correct Factor | Measure-ment | Limits | Margin | Damarla |
|-----------|---------------|----------------|--------------|--------|--------|---------|
| (MHz) | (dBµV) | (dB) | (dBµV) | (dBµV) | (dB) | Remark |
| 0.1499 | 39.17 | 10.13 | 49.30 | 66.00 | -16.70 | QP |
| 0.1499 | 20.61 | 10.13 | 30.74 | 56.00 | -25.26 | AVG |
| 0.1740 | 36.84 | 10.15 | 46.99 | 64.76 | -17.77 | QP |
| 0.1740 | 21.13 | 10.15 | 31.28 | 54.76 | -23.48 | AVG |
| 0.1980 | 34.46 | 10.17 | 44.63 | 63.69 | -19.06 | QP |
| 0.1980 | 15.71 | 10.17 | 25.88 | 53.69 | -27.81 | AVG |
| 0.3460 | 28.53 | 10.03 | 38.56 | 59.06 | -20.50 | QP |
| 0.3460 | 13.66 | 10.03 | 23.69 | 49.06 | -25.37 | AVG |
| 2.4820 | 25.62 | 9.76 | 35.38 | 56.00 | -20.62 | QP |
| 2.4820 | 11.05 | 9.76 | 20.81 | 46.00 | -25.19 | AVG |
| 13.7659 | 27.72 | 9.92 | 37.64 | 60.00 | -22.36 | QP |
| 13.7659 | 10.14 | 9.92 | 20.06 | 50.00 | -29.94 | AVG |

Remark:

All readings are Quasi-Peak and Average values.
 Factor = Insertion Loss + Cable Loss.



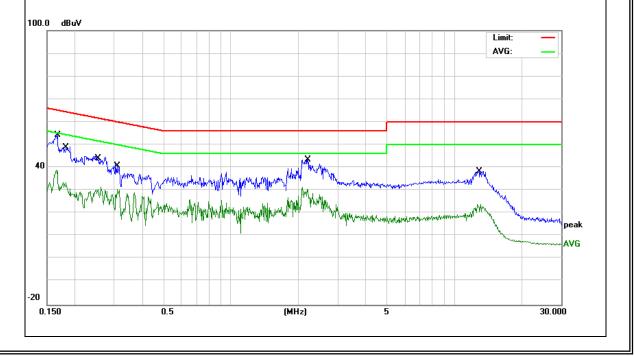


| EUT: | Smart phone | Model Name : | Fuego 4.0M |
|----------------|--------------------------------------|--------------------|------------|
| Temperature: | 26 ℃ | Relative Humidity: | 54% |
| Pressure: | 1010hPa | Phase : | L |
| Test Voltage : | DC 5.0V form Adapter AC 240V/60Hz | Test Mode: | Mode 1 |

| Frequency | Reading Level | Correct Factor | Measure-ment | Limits | Margin | Dement |
|-----------|---------------|----------------|--------------|--------|--------|----------|
| (MHz) | (dBµV) | (dB) | (dBµV) | (dBµV) | (dB) | - Remark |
| 0.1666 | 44.26 | 10.14 | 54.40 | 65.12 | -10.72 | QP |
| 0.1666 | 28.77 | 10.14 | 38.91 | 55.12 | -16.21 | AVG |
| 0.1824 | 38.84 | 10.16 | 49.00 | 64.37 | -15.37 | QP |
| 0.1824 | 23.33 | 10.16 | 33.49 | 54.37 | -20.88 | AVG |
| 0.2540 | 34.96 | 10.14 | 45.10 | 61.62 | -16.52 | QP |
| 0.2540 | 20.31 | 10.14 | 30.45 | 51.62 | -21.17 | AVG |
| 0.3083 | 31.60 | 10.10 | 41.70 | 60.01 | -18.31 | QP |
| 0.3083 | 20.40 | 10.10 | 30.50 | 50.01 | -19.51 | AVG |
| 2.2099 | 33.85 | 9.75 | 43.60 | 56.00 | -12.40 | QP |
| 2.2099 | 20.86 | 9.75 | 30.61 | 46.00 | -15.39 | AVG |
| 12.9018 | 28.50 | 9.90 | 38.40 | 60.00 | -21.60 | QP |
| 12.9018 | 14.13 | 9.90 | 24.03 | 50.00 | -25.97 | AVG |

Remark:

All readings are Quasi-Peak and Average values.
 Factor = Insertion Loss + Cable Loss.





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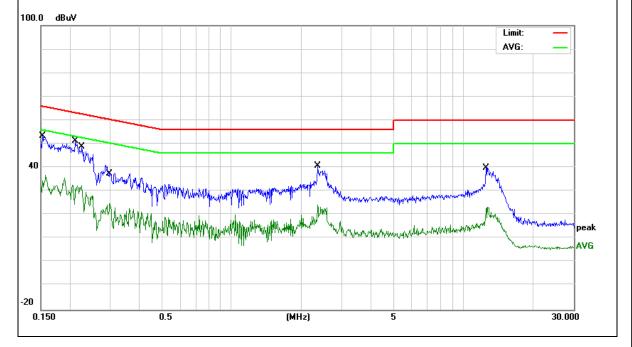
| EUT: | Smart phone | Model Name : | Fuego 4.0M |
|----------------|--------------------------------------|--------------------|------------|
| Temperature: | 26 ℃ | Relative Humidity: | 54% |
| Pressure: | 1010hPa | Phase : | N |
| Test Voltage : | DC 5.0V form Adapter AC 240V/60Hz | Test Mode: | Mode 1 |

| Frequency | Reading Level | Correct Factor | Measure-ment | Limits | Margin | Damarla |
|-----------|---------------|----------------|--------------|--------|--------|---------|
| (MHz) | (dBµV) | (dB) | (dBµV) | (dBµV) | (dB) | Remark |
| 0.1524 | 43.17 | 10.13 | 53.30 | 65.86 | -12.56 | QP |
| 0.1524 | 24.20 | 10.13 | 34.33 | 55.86 | -21.53 | AVG |
| 0.2116 | 41.14 | 10.16 | 51.30 | 63.14 | -11.84 | QP |
| 0.2116 | 22.54 | 10.16 | 32.70 | 53.14 | -20.44 | AVG |
| 0.2260 | 38.64 | 10.16 | 48.80 | 62.59 | -13.79 | QP |
| 0.2260 | 22.17 | 10.16 | 32.33 | 52.59 | -20.26 | AVG |
| 0.2979 | 30.88 | 10.12 | 41.00 | 60.30 | -19.30 | QP |
| 0.2979 | 14.86 | 10.12 | 24.98 | 50.30 | -25.32 | AVG |
| 2.3460 | 31.04 | 9.76 | 40.80 | 56.00 | -15.20 | QP |
| 2.3460 | 14.49 | 9.76 | 24.25 | 46.00 | -21.75 | AVG |
| 12.7659 | 30.40 | 9.90 | 40.30 | 60.00 | -19.70 | QP |
| 12.7659 | 13.34 | 9.90 | 23.24 | 50.00 | -26.76 | AVG |

Remark:

1. All readings are Quasi-Peak and Average values.

2. Factor = Insertion Loss + Cable Loss.





7.2 RADIATED SPURIOUS EMISSION

7.2.1 Applicable Standard

According to FCC Part 15.247(d) and 15.209 and ANSI C63.10-2013

7.2.2 Conformance Limit

According to FCC Part 15.247(d): radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)). According to FCC Part15.205, Restricted bands

| MHz | MHz | MHz | GHz |
|-------------------|---------------------|---------------|-------------|
| 0.090-0.110 | 16.42-16.423 | 399.9-410 | 4.5-5.15 |
| 10.495-0.505 | 16.69475-16.69525 | 608-614 | 5.35-5.46 |
| 2.1735-2.1905 | 16.80425-16.80475 | 960-1240 | 7.25-7.75 |
| 4.125-4.128 | 25.5-25.67 | 1300-1427 | 8.025-8.5 |
| 4.17725-4.17775 | 37.5-38.25 | 1435-1626.5 | 9.0-9.2 |
| 4.20725-4.20775 | 73-74.6 | 1645.5-1646.5 | 9.3-9.5 |
| 6.215-6.218 | 74.8-75.2 | 1660-1710 | 10.6-12.7 |
| 6.26775-6.26825 | 123-138 | 2200-2300 | 14.47-14.5 |
| 8.291-8.294 | 149.9-150.05 | 2310-2390 | 15.35-16.2 |
| 8.362-8.366 | 156.52475-156.52525 | 2483.5-2500 | 17.7-21.4 |
| 8.37625-8.38675 | 156.7-156.9 | 2690-2900 | 22.01-23.12 |
| 8.41425-8.41475 | 162.0125-167.17 | 3260-3267 | 23.6-24.0 |
| 12.29-12.293 | 167.72-173.2 | 3332-3339 | 31.2-31.8 |
| 12.51975-12.52025 | 240-285 | 3345.8-3358 | 36.43-36.5 |
| 12.57675-12.57725 | 322-335.4 | 3600-4400 | (2) |
| 13.36-13.41 | | | |

20dBc in any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) limit in the table below has to be followed.

| Restricted Frequency(MHz) | Field Strength (µV/m) | Field Strength (dBµV/m) | Measurement Distance |
|------------------------------|-----------------------|-------------------------|----------------------|
| 0.009~0.490 | 2400/F(KHz) | 20 log (uV/m) | 300 |
| 0.490~1.705 | 2400/F(KHz) | 20 log (uV/m) | 30 |
| 1.705~30.0 | 30 | 29.5 | 30 |
| 30-88 | 100 | 40 | 3 |
| 88-216 | 150 | 43.5 | 3 |
| 216-960 | 200 | 46 | 3 |
| Above 960 | 500 | 54 | 3 |

Limits of Radiated Emission Measurement(Above 1000MHz)

| Frequency(MHz) | Class B (dBuV/m) (at 3M) | | |
|----------------|--------------------------|---------|--|
| | PEAK | AVERAGE | |
| Above 1000 | 74 | 54 | |

Remark :1. Emission level in dBuV/m=20 log (uV/m)

Measurement was performed at an antenna to the closed point of EUT distance of meters.
 Distance extrapolation factor =40log(Specific distance/ test distance)(dB);

Limit line=Specific limits(dBuV) + distance extrapolation factor.

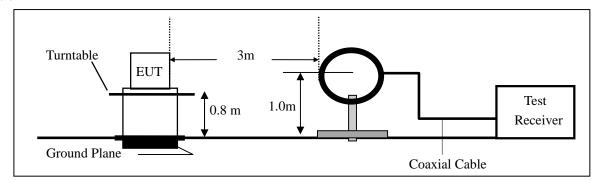


7.2.3 **Measuring Instruments**

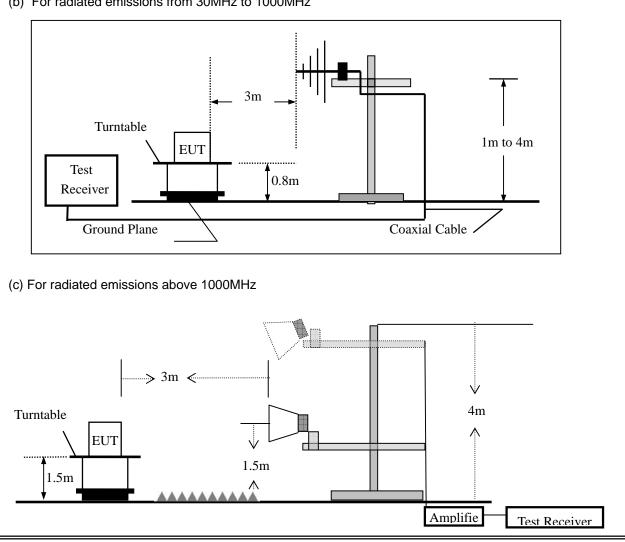
The Measuring equipment is listed in the section 6.3 of this test report.

7.2.4 **Test Configuration**

(a) For radiated emissions below 30MHz



(b) For radiated emissions from 30MHz to 1000MHz





7.2.5 Test Procedure

The test site semi-anechoic chamber has met the requirement of NSA tolerance 4 dB according to the standards: ANSI C63.10-2013. The test distance is 3m. The setup is according to the requirements in Section 13.1.4.1 of ANSI C63.10-2013 and CAN/CSA-CEI/IEC CISPR 22.

This test is required for any spurious emission that falls in a Restricted Band, as defined in Section 15.205. It must be performed with the highest gain of each type of antenna proposed for use with the EUT. Use the following spectrum analyzer settings:

| Ose the following spectrum analyzer settings | se the following spectrum analyzer settings. | | | |
|--|--|--|--|--|
| Spectrum Parameter | Setting | | | |
| Attenuation | Auto | | | |
| Start Frequency | 1000 MHz | | | |
| Stop Frequency | 10th carrier harmonic | | | |
| RB / VB (emission in restricted band) | 1 MHz / 1 MHz for Peak, 1 MHz / 10Hz for Average | | | |
| | | | | |

| Receiver Parameter | Setting |
|------------------------|----------------------------------|
| Attenuation | Auto |
| Start ~ Stop Frequency | 9kHz~150kHz / RB 200Hz for QP |
| Start ~ Stop Frequency | 150kHz~30MHz / RB 9kHz for QP |
| Start ~ Stop Frequency | 30MHz~1000MHz / RB 120kHz for QP |

a. The measuring distance of at 3 m shall be used for measurements at frequency up to 1GHz. For frequencies above 1GHz, any suitable measuring distance may be used.

- b. The EUT was placed on the top of a rotating table 0.8 m for below 1GHz and 1.5m for above 1GHz the ground at a 3 meter. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The height of the equipment or of the substitution antenna shall be 0.8 m for below 1GHz and 1.5m for above 1GHz; the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For the radiated emission test above 1GHz: Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.
- e. The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- f. If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed.
- g. For the actual test configuration, please refer to the related Item –EUT Test Photos.
 - Note:

Both horizontal and vertical antenna polarities were tested

and performed pretest to three orthogonal axis. The worst case emissions were reported



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| During the radiated emission test, the Spectrum Analyzer was set with the following configurations: | | | | | |
|---|----------|----------------------|-----------------|--|--|
| Frequency Band (MHz) | Function | Resolution bandwidth | Video Bandwidth | | |
| 30 to 1000 | QP | 120 kHz | 300 kHz | | |
| 44 4000 | Peak | 1 MHz | 1 MHz | | |
| Above 1000 | Average | 1 MHz | 10 Hz | | |

Note: for the frequency ranges below 30 MHz, a narrower RBW is used for these ranges but the measured value should add a RBW correction factor (RBWCF) where RBWCF [dB] = 10^{10} [df] (100 [kHz]/narrower RBW [kHz])., the narrower RBW is 1 kHz and RBWCF is 20 dB for the frequency 9 kHz to 150 kHz, and the narrower RBW is 10 kHz and RBWCF is 10 dB for the frequency 150 kHz to 30 MHz.

7.2.6 Test Results

■ Spurious Emission below 30MHz (9KHz to 30MHz)

| EUT: | Smart phone | Model No.: | Fuego 4.0M |
|--------------|-------------------|--------------------|------------|
| Temperature: | 20 ℃ | Relative Humidity: | 48% |
| Test Mode: | Mode2/Mode3/Mode4 | Test By: | Lake Xie |

| Freq. | Ant.Pol. | Emission L | .evel(dBuV/m) | Limit 3 | m(dBuV/m) | Over(dB) | | |
|-------|----------|------------|---------------|---------|-----------|----------|----|--|
| (MHz) | H/V | PK | AV | PK | AV | PK | AV | |
| | | | | | | | | |

Note: the amplitude of spurious emission that is attenuated by more than 20dB below the permissible limit has no need to be reported.

Distance extrapolation factor =20log(Specific distance/ test distance)(dB);

Limit line=Specific limits(dBuV) + distance extrapolation factor



Spurious Emission below 1GHz (30MHz to 1GHz) All the modulation modes have been tested, and the worst result was report as below: EUT: Smart phone Fuego 4.0M Model Name : 20 °C 48% Temperature: Relative Humidity: 1010hPa Mode 1 Test Mode: Pressure: DC 3.7V Test Voltage : Emission Meter Frequency Factor Limits Margin Polar Reading Level Remark (H/V) (dBuV) (\mathbf{dB}) (dBuV/m) (dBuV/m) (**dB**) (MHz) 17.86 33.7986 12.24 -9.90 QP V 30.10 40.00 -13.10 V 37.8121 10.90 16.00 26.90 40.00 OP 43.5056 12.79 12.31 25.10 40.00 -14.90 QP V 11.93 13.59 -17.98 V 125.4457 25.52 43.50 OP 162.0414 V 13.41 12.05 25.46 43.50 QP -18.04V 7.40 576.6443 24.71 32.11 46.00 -13.89 QP **Remark:** Absolute Level= ReadingLevel+ Factor, Margin= Absolute Level - Limit 72.0 dBu∀/m Limit: Margin: 6 X 32 ulphate in his many man provident of the -8 30.000 300 500 1000.000 40 50 60 70 80 (MHz) 400 600 700



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| Itoma Retaining Lever Remar (H/V) (MHz) (dBuV) (dB) (dBuV/m) (dBuV/m) (dBu H 30.1051 6.27 19.82 26.09 40.00 -13.91 QP H 63.7588 15.68 6.34 22.02 40.00 -17.98 QP H 132.6850 10.33 13.24 23.57 43.50 -19.93 QP H 336.0350 10.00 17.38 27.38 46.00 -18.62 QP H 744.8659 7.80 27.45 35.25 46.00 -5.45 QP Remark: Absolute Level= ReadingLevel+ Factor, Margin= Absolute Level - Limit 20 40.055 46.00 -5.45 QP Co dbw/m dbw/m |
|--|
| H 63.7588 15.68 6.34 22.02 40.00 -17.98 QP H 132.6850 10.33 13.24 23.57 43.50 -19.93 QP H 336.0350 10.00 17.38 27.38 46.00 -18.62 QP H 744.8659 7.80 27.45 35.25 46.00 -10.75 QP H 890.7278 11.23 29.32 40.55 46.00 -5.45 QP Remark: Absolute Level= ReadingLevel+ Factor, Margin= Absolute Level - Limit 72.0 dBuV/m 11.23 29.32 40.55 46.00 -5.45 QP 32 |
| H 132.6850 10.33 13.24 23.57 43.50 -19.93 QP H 336.0350 10.00 17.38 27.38 46.00 -18.62 QP H 744.8659 7.80 27.45 35.25 46.00 -10.75 QP H 890.7278 11.23 29.32 40.55 46.00 -5.45 QP Remark: Absolute Level= ReadingLevel+ Factor, Margin= Absolute Level - Limit 72.0 48uV/m -5.45 QP 32 |
| H 336.0350 10.00 17.38 27.38 46.00 -18.62 QP H 744.8659 7.80 27.45 35.25 46.00 -10.75 QP H 890.7278 11.23 29.32 40.55 46.00 -5.45 QP Remark: Absolute Level= ReadingLevel+ Factor, Margin= Absolute Level - Limit 72.0 dBuV/m Imit: |
| H 744.8659 7.80 27.45 35.25 46.00 -10.75 QP H 890.7278 11.23 29.32 40.55 46.00 -5.45 QP Remark: Absolute Level= ReadingLevel+ Factor, Margin= Absolute Level - Limit 72.0 dBuV/m Imit: Margin: |
| H 890.7278 11.23 29.32 40.55 46.00 -5.45 QP Remark: Absolute Level= ReadingLevel+ Factor, Margin= Absolute Level - Limit 72.0 dBuV/m |
| Remark: Absolute Level= ReadingLevel+ Factor, Margin= Absolute Level - Limit 72.0 dBuV/m |
| Absolute Level= ReadingLevel+ Factor, Margin= Absolute Level - Limit 72.0 dBuV/m |
| |
| |
| 3 |
| 30.000 40 50 60 70 80 (MHz) 300 400 500 600 700 1000.000 |



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| EUT: | | | <u>e 1GHz (1</u> phone | 0112 10 | | del No.: | | Fuego 4.0N | 1 | |
|--------------------------------------|------------|-------------|---------------------------|----------|-----|------------|----------|--------------|--------|------------|
| Temperatu | ure: | 20 ℃ | | | Rel | ative Humi | idity: | 48% | | |
| Test Mode | : | Mode2 | 2/Mode3/N | /lode4 | Tes | st By: | | Lake Xie | | |
| All the mod | dulation m | odes hav | /e been te | sted, a | | | sult was | report as be | elow: | |
| Frequenc | | Cable | Antenna | Pream | | Emission | Limits | Margin | | |
| V | Level | loss | Factor | Facto | | Level | | - | Remark | Comment |
| (MHz) | (dBµV) | (dB) | dB/m | (dB) | · | (dBµV/m) | | , , | | |
| | | | | | | MHz)(GFS | | - | | |
| 4804 | 56.65 | 5.21 | 35.59 | 44.3 | | 53.15 | 74.00 | -20.85 | Pk | Vertical |
| 4804 | 43.10 | 5.21 | 35.59 | 44.3 | | 39.60 | 54.00 | -14.40 | AV | Vertical |
| 7206 | 52.27 | 6.48 | 36.27 | 44.6 | | 50.42 | 74.00 | -23.58 | Pk | Vertical |
| 7206 | 43.47 | 6.48 | 36.27 | 44.6 | | 41.62 | 54.00 | -12.38 | AV | Vertical |
| 4804 | 51.71 | 5.21 | 35.55 | 44.3 | | 48.17 | 74.00 | -25.83 | Pk | Horizontal |
| 4804 | 43.50 | 5.21 | 35.55 | 44.3 | | 39.96 | 54.00 | -14.04 | AV | Horizontal |
| 7206 | 49.57 | 6.48 | 36.27 | 44.5 | | 47.80 | 74.00 | -26.20 | Pk | Horizontal |
| 7206 | 43.04 | 6.48 | 36.27 | 44.5 | | 41.27 | 54.00 | -12.73 | AV | Horizontal |
| Mid Channel (2441 MHz)(GFSK)Above 1G | | | | | | | | | | |
| 4882 | 56.49 | 5.21 | 35.66 | 44.2 | | 53.16 | 74.00 | -20.84 | Pk | Vertical |
| 4882 | 43.68 | 5.21 | 35.66 | 44.2 | | 40.35 | 54.00 | -13.65 | AV | Vertical |
| 7323 | 52.89 | 7.10 | 36.50 | 44.4 | 3 | 52.06 | 74.00 | -21.94 | Pk | Vertical |
| 7323 | 43.05 | 7.10 | 36.50 | 44.4 | 3 | 42.22 | 54.00 | -11.78 | AV | Vertical |
| 4882 | 54.09 | 5.21 | 35.66 | 44.2 | 0 | 50.76 | 74.00 | -23.24 | Pk | Horizontal |
| 4882 | 43.92 | 5.21 | 35.66 | 44.2 | 0 | 40.59 | 54.00 | -13.41 | AV | Horizontal |
| 7323 | 50.22 | 7.10 | 36.50 | 44.4 | 3 | 49.39 | 74.00 | -24.61 | Pk | Horizontal |
| 7323 | 41.44 | 7.10 | 36.50 | 44.4 | - | 40.61 | 54.00 | -13.39 | AV | Horizontal |
| | | | - | annel (2 | 480 | MHz)(GFS | K) Abov | ve 1G | | |
| 4960 | 55.82 | 5.21 | 35.52 | 44.2 | 1 | 52.34 | 74.00 | -21.66 | Pk | Vertical |
| 4960 | 43.47 | 5.21 | 35.52 | 44.2 | 1 | 39.99 | 54.00 | -14.01 | AV | Vertical |
| 7440 | 50.35 | 7.10 | 36.53 | 44.6 | 0 | 49.38 | 74.00 | -24.62 | Pk | Vertical |
| 7440 | 42.73 | 7.10 | 36.53 | 44.6 | 0 | 41.76 | 54.00 | -12.24 | AV | Vertical |
| 4960 | 53.19 | 5.21 | 35.52 | 44.2 | 1 | 49.71 | 74.00 | -24.29 | Pk | Horizontal |
| 4960 | 40.52 | 5.21 | 35.52 | 44.2 | 1 | 37.04 | 54.00 | -16.96 | AV | Horizontal |
| 7440 | 50.60 | 7.10 | 36.53 | 44.6 | 0 | 49.63 | 74.00 | -24.37 | Pk | Horizontal |
| 7440 | 40.69 | 7.10 | 36.53 | 44.6 | 0 | 39.72 | 54.00 | -14.28 | AV | Horizontal |

Note: (1) All Readings are Peak Value (VBW=3MHz) and AV Value (VBW=10Hz).
(2) Emission Level= Antenna Factor + Cable Loss + Read Level - Preamp Factor (3)All other emissions more than 20dB below the limit.



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| Spurio | us Emissio | on in Band | edge | | | | | | | | |
|------------|------------|-------------|---------|-------|--------|-------------|--------|------|---------|----------|------------|
| EUT: | | Smart ph | · · | | Mode | l No.: | | Fueg | go 4.0M | | |
| Temperatu | ure: | 20 ℃ | | 1 | Relati | ve Humidit | v: | 48% | | | |
| Test Mode | | Mode2/ N | Mode4 | | Test E | | | Lake | Xie | | |
| All the mo | dulation m | | | | | | ult wa | | | w: | |
| Frequenc | | Cable | Antenna | | amp | Emission | | | | | |
| У | Reading | Loss | Factor | | ctor | Level | Lim | | Margin | Detector | Comment |
| (MHz) | (dBµV) | (dB) | dB/m | | IB) | (dBµV/m) | (dBµ' | V/m) | (dB) | Туре | |
| | | | | · · · | | - Non-hopp | - | | | 1 | |
| 2310 | 54.85 | 2.97 | 27.80 | | .80 | 41.82 | 74 | | -32.18 | Pk | Horizontal |
| 2310 | 43.83 | 2.97 | 27.80 | | .80 | 30.80 | 54 | | -23.20 | AV | Horizontal |
| 2310 | 50.20 | 2.97 | 27.80 | 43 | .80 | 37.17 | 74 | | -36.83 | Pk | Vertical |
| 2310 | 40.24 | 2.97 | 27.80 | | .80 | 27.21 | 54 | 4 | -26.79 | AV | Vertical |
| 2390 | 51.50 | 3.14 | 27.21 | 43 | .80 | 38.05 | 74 | 4 | -35.95 | Pk | Vertical |
| 2390 | 40.49 | 3.14 | 27.21 | 43 | .80 | 27.04 | 54 | _ | -26.96 | AV | Vertical |
| 2390 | 50.34 | 3.14 | 27.21 | 43 | .80 | 36.89 | 74 | 4 | -37.11 | Pk | Horizontal |
| 2390 | 43.03 | 3.14 | 27.21 | 43 | .80 | 29.58 | 54 | 4 | -24.42 | AV | Horizontal |
| 2484 | 50.12 | 3.58 | 27.70 | 44 | .00 | 37.40 | 74 | 4 | -36.60 | Pk | Vertical |
| 2484 | 44.61 | 3.58 | 27.70 | 44 | .00 | 31.89 | 54 | | -22.11 | AV | Vertical |
| 2484 | 52.17 | 3.58 | 27.70 | 44 | .00 | 39.45 | 74 | | -34.55 | Pk | Horizontal |
| 2484 | 43.13 | 3.58 | 27.70 | | .00 | 30.41 | 54 | | -23.59 | AV | Horizontal |
| | | | | Mbps | s (GFS | SK)- hoppin | - | | | | |
| 2310 | 50.36 | 2.97 | 27.80 | 43 | .80 | 37.33 | 74 | 4 | -36.67 | Pk | Horizontal |
| 2310 | 44.32 | 2.97 | 27.80 | 43 | .80 | 31.29 | 54 | 4 | -22.71 | AV | Horizontal |
| 2310 | 52.75 | 2.97 | 27.80 | 43 | .80 | 39.72 | 74 | 4 | -34.28 | Pk | Vertical |
| 2310 | 44.01 | 2.97 | 27.80 | 43 | .80 | 30.98 | 54 | 4 | -23.02 | AV | Vertical |
| 2390 | 54.64 | 3.14 | 27.21 | 43 | .80 | 41.19 | 74 | 4 | -32.81 | Pk | Vertical |
| 2390 | 44.12 | 3.14 | 27.21 | 43 | .80 | 30.67 | 54 | 4 | -23.33 | AV | Vertical |
| 2390 | 53.91 | 3.14 | 27.21 | 43 | .80 | 40.46 | 74 | 4 | -33.54 | Pk | Horizontal |
| 2390 | 44.80 | 3.14 | 27.21 | 43 | .80 | 31.35 | 54 | 4 | -22.65 | AV | Horizontal |
| 2484 | 52.53 | 3.58 | 27.70 | 44 | .00 | 39.81 | 74 | 4 | -34.19 | Pk | Vertical |
| 2484 | 40.57 | 3.58 | 27.70 | 44 | .00 | 27.85 | 54 | 4 | -26.15 | AV | Vertical |
| 2484 | 54.77 | 3.58 | 27.70 | 44 | .00 | 42.05 | 74 | 4 | -31.95 | Pk | Horizontal |
| 2484 | 40.06 | 3.58 | 27.70 | 44 | .00 | 27.34 | 54 | 4 | -26.66 | AV | Horizontal |

Note: (1) All other emissions more than 20dB below the limit.



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| UT: | | Sma | art phone | | Model N | No.: | | Fue | go 4.0M | | |
|----------------|------------------------|-------|---------------|-----------------------|------------------|-------------------|------------|------|-----------|--------------|------------|
| Femperature: | | 20 (| Ĉ | | Relative | e Humidity: | | 48% | , D | | |
| Fest Mode: | | Mod | le2/ Mod | e4 | Test By | : | | Lak | e Xie | | |
| All the modula | ation r | nodes | have be | en tested | , and the | worst resul | t was | s re | port as b | elow: | |
| Freque y | Frequenc Rea y g Le | | Cable Loss | Antenn a Factor | Preamp Factor | Emission Level | Lim | nits | Margin | Detecto r | Comment |
| (MHz |) (c | lBμV) | (dB) | dB/m | (dB) | (dBµ V/m) | (dE V/r | - | (dB) | Туре | |
| 3260 | 6 | 62.06 | 4.04 | 29.57 | 44.70 | 50.97 | 74 | 4 | -23.03 | Pk | Vertical |
| 3260 | 5 | 54.93 | 4.04 | 29.57 | 44.70 | 43.84 | 54 | 4 | -10.16 | AV | Vertical |
| 3260 | 6 | 60.89 | 4.04 | 29.57 | 44.70 | 49.80 | 74 | 4 | -24.20 | Pk | Horizontal |
| 3260 | 5 | 55.73 | 4.04 | 29.57 | 44.70 | 44.64 | 54 | 4 | -9.36 | AV | Horizontal |
| 3332 | 6 | 63.64 | 4.26 | 29.87 | 44.40 | 53.37 | 74 | 4 | -20.63 | Pk | Vertical |
| 3332 | 5 | 56.79 | 4.26 | 29.87 | 44.40 | 46.52 | 54 | 4 | -7.48 | AV | Vertical |
| 3332 | 6 | 61.72 | 4.26 | 29.87 | 44.40 | 51.45 | 74 | 4 | -22.55 | Pk | Horizontal |
| 3332 | 5 | 55.51 | 4.26 | 29.87 | 44.40 | 45.24 | 54 | 4 | -8.76 | AV | Horizontal |
| 17789 | 9 5 | 59.06 | 10.99 | 43.95 | 43.50 | 70.50 | 74 | 4 | -3.50 | Pk | Vertical |
| 17789 | 9 5 | 52.67 | 10.99 | 43.95 | 43.50 | 64.11 | 54 | 4 | 10.11 | AV | Vertical |
| 17957 | 7 6 | 60.82 | 11.81 | 43.69 | 44.60 | 71.72 | 74 | 4 | -2.28 | Pk | Horizontal |
| 17957 | 7 5 | 51.53 | 11.81 | 43.69 | 44.60 | 62.43 | 54 | 4 | 8.43 | AV | Horizontal |

Note: (1) All other emissions more than 20dB below the limit.



7.3 NUMBER OF HOPPING CHANNEL

7.3.1 Applicable Standard

According to FCC Part 15.247(a)(1) (iii)and ANSI C63.10-2013

7.3.2 Conformance Limit

Frequency hopping systems in the 2400-2483.5MHz band shall use at least 15 channels.

7.3.3 Measuring Instruments

The Measuring equipment is listed in the section 6.3 of this test report.

7.3.4 Test Setup

Please refer to Section 6.1 of this test report.

7.3.5 Test Procedure

The testing follows ANSI C63.10-2013 clause 7.8.3 The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement. Set to the maximum power setting and enable the EUT transmit continuously. The EUT must have its hopping function enabled. Use the following spectrum analyzer settings: Span = the frequency band of operation RBW \geq 1% of the span VBW \geq RBW Sweep = auto Detector function = peak Trace = max hold

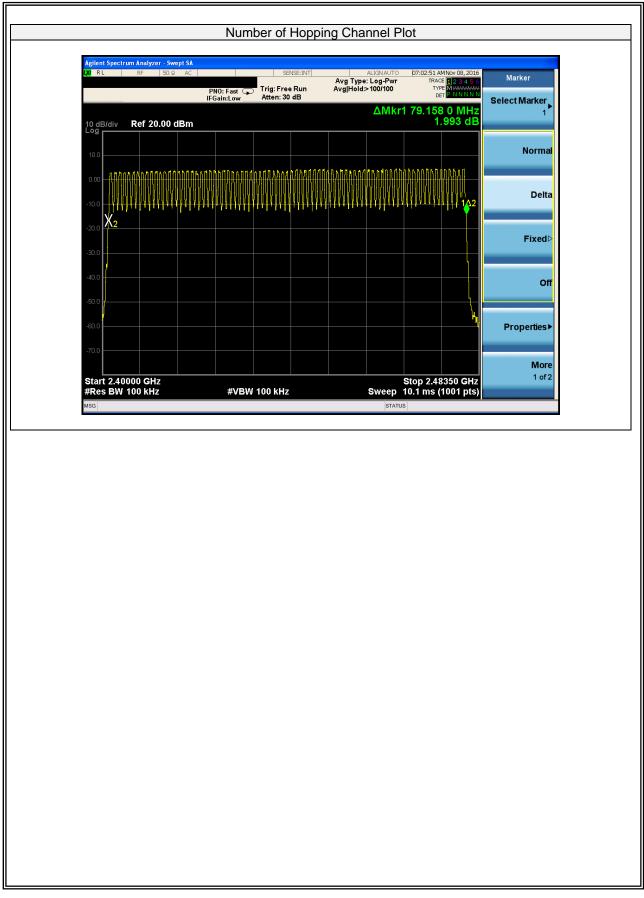
7.3.6 Test Results

| EUT: | Smart phone | Model No.: | Fuego 4.0M |
|--------------|----------------|--------------------|------------|
| Temperature: | 20 ℃ | Relative Humidity: | 48% |
| Test Mode: | Mode 5(1Mbps)) | Test By: | Lake Xie |

| Number of Hopping (Channel) | Adaptive Frequency hopping (Channel) | limit | Verdict |
|--------------------------------|---|-------|---------|
| 79 | 20 | ≥15 | Pass |



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7.4 HOPPING CHANNEL SEPARATION MEASUREMENT

7.4.1 Applicable Standard

According to FCC Part 15.247(a)(1) and ANSI C63.10-2013

7.4.2 Conformance Limit

Frequency hopping systems operating in the 2400-2483.5MHz band shall have hopping channel carrier frequencies that are separated by 25kHz or two-thirds of the 20dB bandwidth of the hopping channel, whichever is greater.

7.4.3 Measuring Instruments

The Measuring equipment is listed in the section 6.3 of this test report.

7.4.4 Test Setup

Please refer to Section 6.1 of this test report.

7.4.5 Test Procedure

The testing follows ANSI C63.10-2013 clause 7.8.2 The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement. Set to the maximum power setting and enable the EUT transmit continuously. The EUT was operating in controlled its channel. Use the following spectrum analyzer settings: Span = Measurement Bandwidth or Channel Separation RBW \geq 30KHz VBW \geq 3*RBW Sweep = auto Detector function = peak

Trace = max hold



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7.4.6 Test Results

| EUT: | Smart phone | Model No.: | Fuego 4.0M |
|--------------|-------------------|--------------------|------------|
| Temperature: | 20 ℃ | Relative Humidity: | 48% |
| Test Mode: | Mode2/Mode3/Mode4 | Test By: | Lake Xie |

| Modulation Mode | Channel Number | Channel Frequency | Measurement Bandwidth | | Limit kHz) | Verdict |
|--------------------|-------------------|----------------------|--------------------------|----------|----------------|---------|
| | | (MHz) | (kHz) | 010.000 | | 54.00 |
| | 0 | 2402 | 1 | >916.360 | 20dB BW | PASS |
| GFSK | 39 | 2441 | 1 | >866.144 | 20dB BW | PASS |
| | 78 | 2480 | 1 | >867.227 | 20dB BW | PASS |
| | 0 | 2402 | 1 | >842.000 | 2/3 of 20dB BW | PASS |
| π/4-DQPSK | 39 | 2441 | 1 | >815.333 | 2/3 of 20dB BW | PASS |
| | 78 | 2480 | 1 | >797.333 | 2/3 of 20dB BW | PASS |
| | 0 | 2402 | 1 | >797.333 | 2/3 of 20dB BW | PASS |
| 8DPSK | 39 | 2441 | 1 | >805.333 | 2/3 of 20dB BW | PASS |
| | 78 | 2480 | 1 | >805.333 | 2/3 of 20dB BW | PASS |



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Test Plot

Avg Type: Log-Pwr Avg/Hold>100/100 Peak Search Trig: Free Run NextPe Ref 20.00 dBm Next Pk Ric 142 X. Next Pk Let Marker Del Mkr Cl Mkr-RefLy 1 01 Center 2.402500 Gi Res BW 30 kHz Span 2.500 MH Sweep 2.67 ms (1001 pt #VBW 100 kHz

(1Mbps) Channel Separation plot on channel 00-01

(1Mbps) Channel Separation plot on channel 39-40



(2Mbps) Channel Separation plot on channel 00-01



(2Mbps) Channel Separation plot on channel 39-40





(2Mbps) Channel Separation plot on channel 77-78





Test Plot

(3Mbps) Channel Separation plot on channel 00-01



(3Mbps) Channel Separation plot on channel 39-40



(3Mbps) Channel Separation plot on channel 77-78





7.5 AVERAGE TIME OF OCCUPANCY (DWELL TIME)

7.5.1 Applicable Standard

According to FCC Part 15.247(a)(1)(iii) and ANSI C63.10-2013

7.5.2 Conformance Limit

The average time of occupancy on any channel shall not be greater than 0.4s within a period of 0.4s multiplied by the number of hopping channels employed.

7.5.3 Measuring Instruments

The Measuring equipment is listed in the section 6.3 of this test report.

7.5.4 Test Setup

Please refer to Section 6.1 of this test report.

7.5.5 Test Procedure

The testing follows ANSI C63.10-2013 clause 7.8.4 The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement. Set to the maximum power setting and enable the EUT transmit continuously. The EUT must have its hopping function enabled. Use the following spectrum analyzer settings: Span = zero span, centered on a hopping channel RBW \geq 1MHz VBW \geq RBW Sweep = as necessary to capture the entire dwell time per hopping channel Detector function = peak Trace = max hold Measure the maximum time duration of one single pulse. Set the EUT for DH5, DH3 and DH1 packet transmitting. Measure the maximum time duration of one single pulse.



7.5.6 **Test Results**

| EUT: | Smart phone | Model No.: | Fuego 4.0M |
|--------------|-------------------|--------------------|------------|
| Temperature: | 20 ℃ | Relative Humidity: | 48% |
| Test Mode: | Mode2/Mode3/Mode4 | Test By: | Lake Xie |

| Modulatio n Mode | Channel Number | Packet type | Mode | Hops Over Occupanc y Time (ms) | Pulse width (ms) | dwell time (ms) | Limit (ms) | Verdict |
|---------------------|-------------------|----------------|--------|--|------------------------|--------------------|---------------|---------|
| | 39 | | Normal | 320 | 0.417 | 133.440 | <400 | PASS |
| | 39 | DH1 | AFH | 160 | 0.417 | 66.720 | <400 | PASS |
| | 39 | | Normal | 160 | 1.683 | 269.280 | <400 | PASS |
| GFSK | 39 | DH3 | AFH | 80 | 1.683 | 134.640 | <400 | PASS |
| | 39 | DUIS | Normal | 106.67 | 2.967 | 316.490 | <400 | PASS |
| | 39 | DH5 | AFH | 53.33 | 2.967 | 158.230 | <400 | PASS |
| | 39 | | Normal | 320 | 0.433 | 138.560 | <400 | PASS |
| | 39 | 2DH1 | AFH | 160 | 0.433 | 69.280 | <400 | PASS |
| π/4- | 39 | 2DH3 | Normal | 160 | 1.683 | 269.280 | <400 | PASS |
| DQPSK | 39 | 2003 | AFH | 80 | 1.683 | 134.640 | <400 | PASS |
| | 39 | 2DH5 | Normal | 106.67 | 2.933 | 312.863 | <400 | PASS |
| | 39 | 20115 | AFH | 53.33 | 2.933 | 156.417 | <400 | PASS |
| | 39 | 3DH1 | Normal | 320 | 0.433 | 138.560 | <400 | PASS |
| | 39 | 5011 | AFH | 160 | 0.433 | 69.280 | <400 | PASS |
| 8DPSK | 39 | 3DH3 | Normal | 160 | 1.7 | 272.000 | <400 | PASS |
| 001-01 | 39 | 50115 | AFH | 80 | 1.7 | 136.000 | <400 | PASS |
| | 39 | 3DH5 | Normal | 106.67 | 2.917 | 311.156 | <400 | PASS |
| | 39 | 5015 | AFH | 53.33 | 2.917 | 155.564 | <400 | PASS |

Note:

A Period Time = (channel number)*0.4

DH1 Time Slot: Reading * (1600/2)*31.6/(channel number) DH3 Time Slot: Reading * (1600/4)*31.6/(channel number) DH5 Time Slot: Reading * (1600/6)*31.6/(channel number)

For Example:

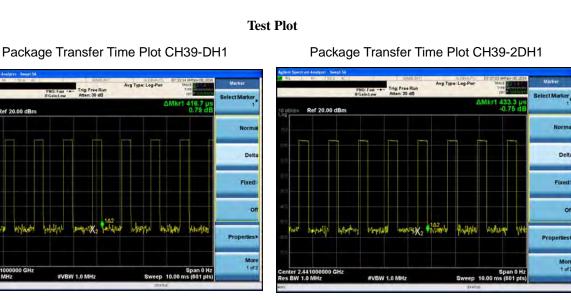
- 1. In normal mode, hopping rate is 1600 hops/s with 6 slots in 79 hopping channels. With channel hopping rate (1600 / 6 / 79) in Occupancy Time Limit (0.4 x 79) (s), Hops Over Occupancy Time comes to $(1600 / 6 / 79) \times (0.4 \times 79) = 106.67$ hops.
- 2. In AFH mode, hopping rate is 800 hops/s with 6 slots in 20 hopping channels. With channel hopping rate (800 / 6 / 20) in Occupancy Time Limit (0.4 x 20) (s), Hops Over Occupancy Time comes to $(800 / 6 / 20) \times (0.4 \times 20) = 53.33$ hops.
- 3. Dwell Time(s) = Hops Over Occupancy Time (hops) x Package Transfer Time



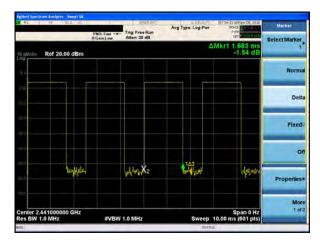
Ref 20.00 dBm

enter 2.441000 es BW 1.0 MHz

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Package Transfer Time Plot CH39-DH3



Package Transfer Time Plot CH39-DH5

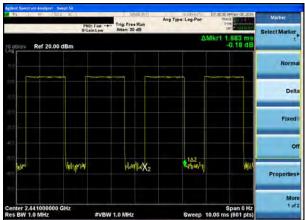
rig: Free R

#VBW 1.0 MH

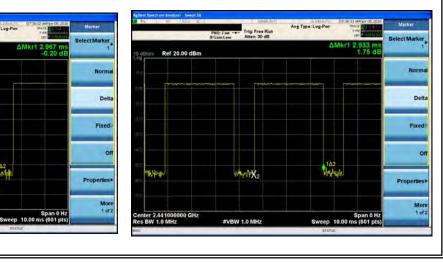
Ref 20.00 dBm

enter 2,441000 es BW 1.0 MHz

000 GHz



Package Transfer Time Plot CH39-2DH3



Package Transfer Time Plot CH39-2DH5

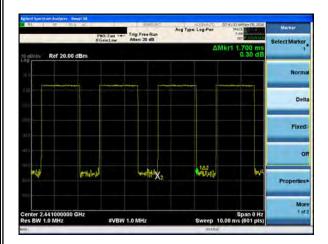


Test Plot

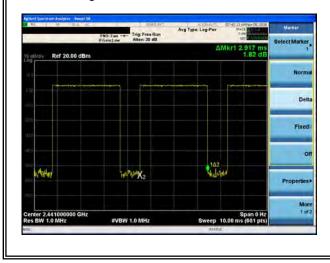
Package Transfer Time Plot CH39-3DH1

| RL 3 | e train | PN | 0: Fast | Trig: Fre- | e Run I dB | Avg Type | Log-Pwr | 17-40-32 AM TRACE Trite DET | | Marker Select Marker |
|---------------------------|------------|---------|---------|------------|----------------------|-------------|---------|--------------------------------------|-------------------|-------------------------|
| dB/div R | ef 20.00 d | IBm | | | | | 4 | AMkr1 43 -0 | 33.3 µs .09 dB | J |
| 6.0 | | | | | | | | | | Norma |
| | | | | | | | | | | Delt |
| an | | | | | | | | | | Fixed |
| 0p | | | | | | | | | | 0 |
| an his n | philippin | alapath | (mpath | herd | ¶ ⁴ ¥₂ \$ | A2 Artur | mailten | West | itter | Properties |
| enter 2.441 es BW 1.01 | | Hz | | 1.0 MHz | | | | Sp 10.00 ms (| an 0 Hz | Mor 1 of |

Package Transfer Time Plot CH39-3DH3



Package Transfer Time Plot CH39-3DH5





7.6 20DB BANDWIDTH TEST

7.6.1 Applicable Standard

According to FCC Part 15.247(a)(1) and ANSI C63.10-2013

7.6.2 Conformance Limit

No limit requirement.

7.6.3 Measuring Instruments

The Measuring equipment is listed in the section 6.3 of this test report.

7.6.4 Test Setup

Please refer to Section 6.1 of this test report.

7.6.5 Test Procedure

The testing follows ANSI C63.10-2013 clause 6.9.2 The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement. Set to the maximum power setting and enable the EUT transmit continuously. The EUT was operating in controlled its channel. Use the following spectrum analyzer settings: Span = approximately 2 to 3 times the 20 dB bandwidth, centered on a hopping channel RBW \geq 1% of the 20 dB bandwidth VBW \geq RBW Sweep = auto Detector function = peak Trace = max hold



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7.6.6 Test Results

| EUT: | Smart phone | Model No.: | Fuego 4.0M |
|--------------|-------------------|--------------------|------------|
| Temperature: | 20 ℃ | Relative Humidity: | 48% |
| Test Mode: | Mode2/Mode3/Mode4 | Test By: | Lake Xie |

| Test Channel | Frequency | Measurement Bandwidth (KHz) | Limit | Verdict | |
|--------------|-----------|-----------------------------------|-------|---------|--|
| | (MHz) | · · · | (kHz) | | |
| | 1Mbps | | | | |
| 0 | 2402 | 926 | N/A | PASS | |
| 39 | 2441 | 886.7 | N/A | PASS | |
| 78 | 2480 | 922.9 | N/A | PASS | |
| 2Mbps | | | | | |
| 0 | 2402 | 1249 | N/A | PASS | |
| 39 | 2441 | 1251 | N/A | PASS | |
| 78 | 2480 | 1253 | N/A | PASS | |
| 3Mbps | | | | | |
| 0 | 2402 | 1264 | N/A | PASS | |
| 39 | 2441 | 1263 | N/A | PASS | |
| 78 | 2480 | 1262 | N/A | PASS | |

Note: N/A (Not Applicable)



Test Plot

20dB Bandwidth plot on channel 00 (1Mbps)



20dB Bandwidth plot on channel 39 (1Mbps)





20dB Bandwidth plot on channel 78 (1Mbps)

20dB Bandwidth plot on channel 00 (2Mbps)



20dB Bandwidth plot on channel 39 (2Mbps)





20dB Bandwidth plot on channel 78 (2Mbps)

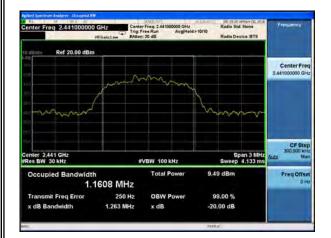


Test Plot

20dB Bandwidth plot on channel 00 (3Mbps)



20dB Bandwidth plot on channel 39 (3Mbps)



20dB Bandwidth plot on channel 78 (3Mbps)





7.7 PEAK OUTPUT POWER

7.7.1 Applicable Standard

According to FCC Part 15.247(b)(1) and ANSI C63.10-2013

7.7.2 Conformance Limit

The maximum peak conducted output power of the intentional radiator shall not exceed the following: (1) For frequency hopping systems operating in the 2400-2483.5 MHz band employing at least 75 non-overlapping hopping channels, and all frequency hopping systems in the 5725-5850 MHz band: 1 watt. For all other frequency hopping systems in the 2400-2483.5 MHz band 0.125 watts.

7.7.3 Measuring Instruments

The Measuring equipment is listed in the section 6.3 of this test report.

7.7.4 Test Setup

Please refer to Section 6.1 of this test report.

7.7.5 Test Procedure

The testing follows ANSI C63.10-2013 clause 7.8.5. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement. Set to the maximum power setting and enable the EUT transmit continuously. The EUT was operating in controlled its channel. Use the following spectrum analyzer settings: Span = approximately 5 times the 20 dB bandwidth, centered on a hopping channel RBW \geq the 20 dB bandwidth of the emission being measured VBW \geq RBW Sweep = auto Detector function = peak Trace = max hold



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7.7.6 Test Results

| EUT: | Smart phone | Model No.: | Fuego 4.0M |
|--------------|-------------------|--------------------|------------|
| Temperature: | 20 ℃ | Relative Humidity: | 48% |
| Test Mode: | Mode2/Mode3/Mode4 | Test By: | Lake Xie |

| Test Channel | Frequenc y | Power Setting | Peak Output Power | | Verdict |
|-----------------|---------------|------------------|-------------------------|-------|---------|
| | (MHz) | | (dBm) | (dBm) | |
| | | 1MI | ops | | |
| 0 | 2402 | Default | 3.381 | 30 | PASS |
| 39 | 2441 | Default | 4.21 | 30 | PASS |
| 78 | 2480 | Default | 4.728 | 30 | PASS |
| 2Mbps | | | | | |
| 0 | 2402 | Default | 2.977 | 20.97 | PASS |
| 39 | 2441 | Default | 3.832 | 20.97 | PASS |
| 78 | 2480 | Default | 4.371 | 20.97 | PASS |
| 3Mbps | | | | | |
| 0 | 2402 | Default | 3.304 | 20.97 | PASS |
| 39 | 2441 | Default | 4.165 | 20.97 | PASS |
| 78 | 2480 | Default | 4.686 | 20.97 | PASS |



Test Plot

Avg Type: Log-Pwr Avg/Hold>100/100 Peak Seatch Trig: Free Run Atten: 30 dB NextPea Ref 20.00 dBm 3.381 d Next Pk Ric •1 Next Pk Let Marker Del Mkr-C Mkr-RefLy 1 01 s BW 1.0 MHz Span 5.000 MH Sweep 1.00 ms (1001 pt #VBW 3.0 MH:

Peak output Power plot on channel 00 (1Mbps)

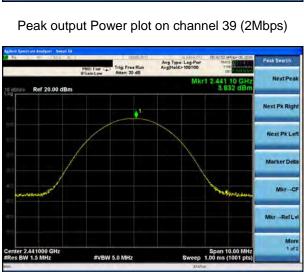
Peak output Power plot on channel 00 (2Mbps)

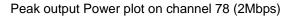


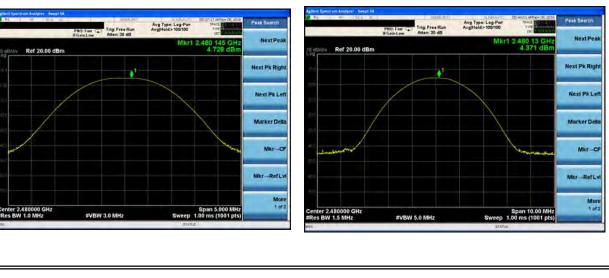
Peak output Power plot on channel 39 (1Mbps)



Peak output Power plot on channel 78 (1Mbps)



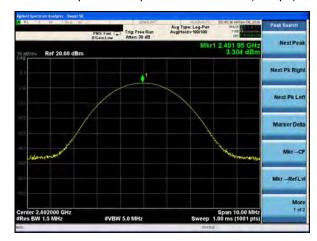




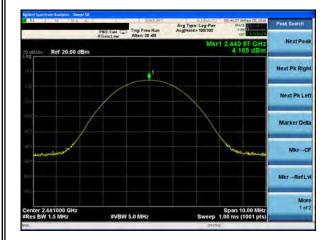


Test Plot

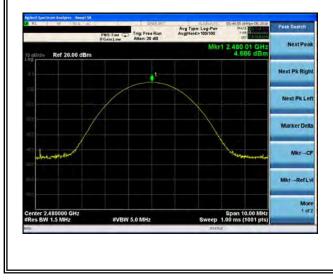
Peak output Power plot on channel 00 (3Mbps)



Peak output Power plot on channel 39 (3Mbps)



Peak output Power plot on channel 78 (3Mbps)





7.8 CONDUCTED BAND EDGE MEASUREMENT

7.8.1 Applicable Standard

According to FCC Part 15.247(d) and ANSI C63.10-2013

7.8.2 Conformance Limit

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated 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, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

7.8.3 Measuring Instruments

The Measuring equipment is listed in the section 6.3 of this test report.

7.8.4 Test Setup

Please refer to Section 6.1 of this test report.

7.8.5 Test Procedure

The testing follows ANSI C63.10-2013 clause 7.8.6.

The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator.

The path loss was compensated to the results for each measurement.

Set to the maximum power setting and enable the EUT transmit continuously.

The EUT must have its hopping function enabled.

Use the following spectrum analyzer settings:

Span = approximately 5 times the 20 dB bandwidth, centered on a hopping channel

RBW = 100KHz

VBW = 100KHz

Band edge emissions must be at least 20 dB down from the highest emission level within the authorized band as measured with a 100kHz RBW. The attenuation shall be 30 dB instead of 20 dB when RMS conducted output power procedure is used.

Measure the highest amplitude appearing on spectral display and set it as a reference level. Plot the graph with marking the highest point and edge frequency.

Repeat above procedures until all measured frequencies were complete.



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7.8.6 Test Results

| EUT: | Smart phone | Model No.: | Fuego 4.0M |
|--------------|---------------------|--------------------|------------|
| Temperature: | 20 ℃ | Relative Humidity: | 48% |
| Test Mode: | Mode2 /Mode4/ Mode5 | Test By: | Lake Xie |

Note: Hopping enabled and disabled have evaluated, and the wortest data was reported

Test Plot

BDR mode (GFSK): Band Edge-Low Channel



BDR mode (GFSK): Band Edge-Low Channel (Hopping Mode)

 Mainter
 Mainter

 1
 1
 1
 24000 GHz
 3584 dBm
 1000 Hz
 Stop 241000 GHz
 File

 1
 1
 1
 2400 GHz
 3584 dBm
 1000 Hz
 Stop 241000 GHz
 File

 1
 1
 1
 2400 GHz
 3584 dBm
 1000 Hz
 Stop 241000 GHz
 Off

 1
 1
 1
 2400 GHz
 3584 dBm
 1000 Hz
 Stop 241000 GHz
 Off

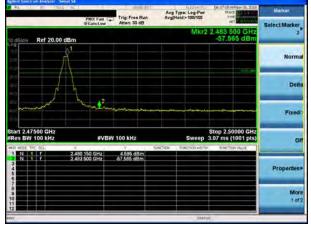
 1
 1
 1
 2400 GHz
 3584 dBm
 1000 Hz
 Stop 241000 GHz
 Off

 1
 1
 1
 2400 GHz
 3584 dBm
 1000 Hz
 Stop 241000 GHz
 Off

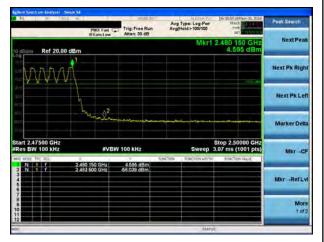
 1
 1
 1
 2400 GHz
 3584 dBm
 1000 Hz
 Stop 241000 GHz
 Off

 1
 1
 1
 2400 GHz
 3584 dBm
 1000 Hz
 TopC100 Hz
 TopC100 Hz
 000 Hz

BDR mode (GFSK): Band Edge-High Channel

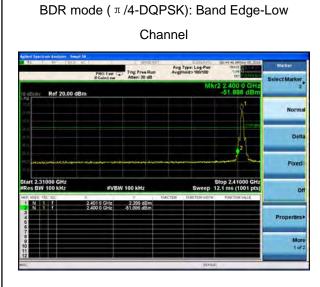


BDR mode (GFSK): Band Edge-High Channel (Hopping Mode)





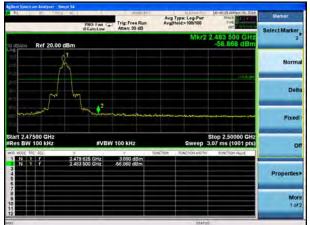




BDR mode (π /4-DQPSK): Band Edge-Low Channel (Hopping Mode)



BDR mode (π /4-DQPSK): Band Edge-High Channel



BDR mode (π /4-DQPSK): Band Edge-High Channel (Hopping Mode)



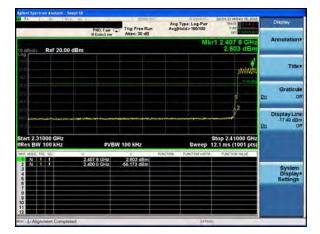


Test Plot

BDR mode (8DPSK): Band Edge-Low Channel

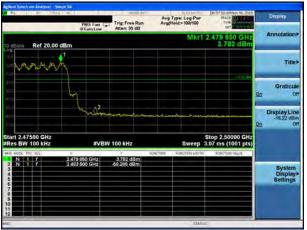


BDR mode (8DPSK): Band Edge-Low Channel (Hopping Mode)



BDR mode (8DPSK): Band Edge-High Channel

BDR mode (8DPSK): Band Edge-High Channel (Hopping Mode)





7.9 ANTENNA APPLICATION

7.9.1 Antenna Requirement

15.203 requirement: For intentional device, according to 15.203: an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible partyshall be used with the device.

7.9.2 Result

The EUT antenna is permanent attached antenna. It comply with the standard requirement.

END OF REPORT