



RADIO TEST REPORT

Report No: STS1512011F02

Issued for

COMMERCIAL LINK INTERNATIONAL S.A.S

TRANSV. 60 NO 115–58 TORRE A OFICINA 703 CENTRO EMPRESARIAL ILARCO BOGOTA COLOMBIA

| Product Name: | smart phone |
|----------------|---|
| Brand Name: | GLOBE, MULTITECH |
| Model No.: | V55 |
| Series Model: | GB-SMP5000,GB-SMP5X,GB-SMP05, MT-MBP5000,MT-SMP05,MT-SMP5W |
| FCC ID: | 2AGT8-V55 |
| Test Standard: | FCC Part 15.247 |

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TEST RESULT CERTIFICATION

| COMMERCIAL LINK INTERNATIONAL S.A.S |
|---|
| TRANSV. 60 NO 115–58 TORRE A OFICINA 703 CENTRO EMPRESARIAL ILARCO BOGOTA COLOMBIA |
| SHENZHEN VASTKING ELECTRONIC CO.,LTD |
| Building 6, Zheng Zhong Industrial Park, Qiaotou Community, Fuyong, Baoan, Shen Zhen, China |
| |
| smart phone |
| V55 |
| GB-SMP5000,GB-SMP5X,GB-SMP05, MT-MBP5000,MT-SMP05,MT-SMP5W |
| FCC Part15.247 |
| ANSI C63.10-2013 |
| |

This device described above has been tested by STS, 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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Date of Test:

| Test Result: | Pass |
|-----------------------------------|----------------------------|
| Date of Issue: | 05 Dec. 2015 |
| Date (s) of performance of tests: | 01 Dec. 2015 ~04 Dec. 2015 |

| Testing Engineer : | Burning |
|------------------------|----------------|
| | (Jin Ming) |
| Technical Manager : | Marti APPROVAL |
| | (Vita Li) |
| Authorized Signatory : | honey Juney |
| | (Bovey Yang) |

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1. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

| | FCC Part15 (15.247) , Subpart C | | | |
|---------------------|---------------------------------|----------|--------|--|
| Standard Section | Test Item | Judgment | Remark | |
| 15.207 | Conducted Emission | PASS | | |
| 15.247 (a)(2) | 6dB Bandwidth | PASS | | |
| 15.247 (b) | Peak Output Power | PASS | | |
| 15.247 (c) | Radiated Spurious Emission PASS | | | |
| 15.247 (d) | Power Spectral Density PASS | | | |
| 15.205 | Band Edge Emission PASS | | | |
| 15.203 | Antenna Requirement PASS | | | |

NOTE:

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

1.1 TEST FACTORY

Shenzhen STS Test Services Co., Ltd. Add. : 1/F., Building B, Zhuoke Science Park, No.190,Chongqing Road, Fuyong Street, Bao'an District, Shenzhen, Guangdong,China CNAS Registration No.: L7649; FCC Registration No.: 842334; IC Registration No.: 12108A-1

1.2 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 % $^\circ$

| No. | Item | Uncertainty |
|-----|--|-------------|
| 1 | Conducted Emission (9KHz-150KHz) | ±2.88dB |
| 2 | Conducted Emission (150KHz-30MHz) | ±2.67dB |
| 3 | RF power,conducted | ±0.70dB |
| 4 | Spurious emissions, conducted | ±1.19dB |
| 5 | All emissions,radiated(<1G) 30MHz-200MHz | ±2.83dB |
| 6 | All emissions,radiated(<1G) 200MHz-1000MHz | ±2.94dB |
| 7 | All emissions,radiated(>1G) | ±3.03dB |
| 8 | Temperature | ±0.5°C |
| 9 | Humidity | ±2% |

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2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

| Equipment | smart phone | | | |
|----------------------------|------------------------------------|--------------------|--|--|
| Trade Name | GLOBE,MULTITECH | | | |
| Model Name | V55 | | | |
| Series Model | GB-SMP5000,GB-S MT-MBP5000,MT-S | | | |
| Model Difference | Different appearanc | e | | |
| | The EUT is a smart | phone | | |
| | Operation Frequency: | 2402~2480 MHz | | |
| | Modulation Type: | GFSK | | |
| Product Description | Radio Technology | BLE | | |
| | Number Of Channel 40 | | | |
| | Antenna Designation: | Please see Note 3. | | |
| | Antenna Gain (dBi) | 0 dbi | | |
| Channel List | Please refer to the Note 2. | | | |
| Adapter | Input: AC100-240V, 200mA, 50/60 Hz | | | |
| | Output: DC 5V, 1500mA | | | |
| Battery | Rated Voltage: 3.8V | | | |
| | capacity :2600mAh | | | |
| Hardware version number | MF0MCB1C1-1 | | | |
| Software versioning number | | | | |
| Connecting I/O Port(s) | Please refer to the User's Manual | | | |

Note:

1. For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.

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2.

| | Channel List | | | | | | |
|---------|---------------------|---------|---------------------|---------|---------------------|---------|--------------------|
| Channel | Frequenc y (MHz) | Channel | Frequenc y (MHz) | Channel | Frequenc y (MHz) | Channel | Frequency (MHz) |
| 01 | 2402 | 11 | 2422 | 21 | 2442 | 31 | 2462 |
| 02 | 2404 | 12 | 2424 | 22 | 2444 | 32 | 2464 |
| 03 | 2406 | 13 | 2426 | 23 | 2446 | 33 | 2466 |
| 04 | 2408 | 14 | 2428 | 24 | 2448 | 34 | 2468 |
| 05 | 2410 | 15 | 2430 | 25 | 2450 | 35 | 2470 |
| 06 | 2412 | 16 | 2432 | 26 | 2452 | 36 | 2472 |
| 07 | 2414 | 17 | 2434 | 27 | 2454 | 37 | 2474 |
| 08 | 2416 | 18 | 2436 | 28 | 2456 | 38 | 2476 |
| 09 | 2418 | 19 | 2438 | 29 | 2458 | 39 | 2478 |
| 10 | 2420 | 20 | 2440 | 30 | 2460 | 40 | 2480 |

3.

Table for Filed Antenna

| I | Ant. | Brand | Model Name | Antenna Type | Connector | Gain (dBi) | NOTE |
|---|------|---------------------|------------|--------------|-----------|------------|------------|
| | А | GLOBE,MU LTITECH | V55 | PIFA Antenna | N/A | 0 | BT 4.0 ANT |



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2.2 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.

| Pretest Mode | Description |
|--------------|------------------|
| Mode 1 | TX CH1/CH20/CH40 |
| Mode 2 | Keeping TX mode |

| For Conducted Emission | | | |
|-----------------------------|--|--|--|
| Final Test Mode Description | | | |
| Mode 2 Keeping TX mode | | | |

| For Radiated Emission | | | | |
|-----------------------------|------------------|--|--|--|
| Final Test Mode Description | | | | |
| Mode 1 | TX CH1/CH20/CH40 | | | |
| Mode 2 Keeping TX mode | | | | |

Note:

(1) The measurements are performed at the highest, middle, lowest available channels.

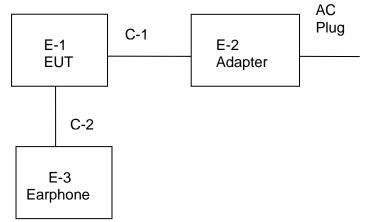
(2) The measurements are performed at all Bit Rate of Transmitter, the worst data was reported

(3) We have be tested for all avaiable U.S. voltage and frequencies(For 120V,50/60Hz and 240V, 50/60Hz) for which the device is capable of operation.

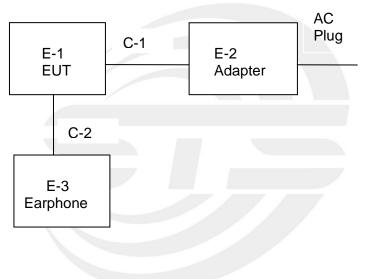


2.3 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

Radiated Spurious Emission Test



Conducted Emission Test



Shenzhen STS Test Services Co., Ltd.



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2.4 DESCRIPTION OF SUPPORT UNITS(CONDUCTED MODE)

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. | Series No. | Note |
|------|-------------|-----------------|----------------|------------|------|
| E-1 | smart phone | GLOBE,MULTITECH | V55 | N/A | EUT |
| E-2 | Adapter | N/A | EE5015-P17 | N/A | EUT |
| E-3 | Earphone | N/A | N/A | N/A | EUT |
| | | | | | |
| | | | | | |
| | | | | | |

| Item | Shielded Type | Ferrite Core | Length | Note |
|------|---------------|--------------|--------|------|
| C-1 | unshielded | NO | 81cm | N/A |
| C-2 | Unshielded | NO | 100cm | N/A |
| | | | | |
| | | | | |
| | | | | |

Note:

- (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.



2.5 EQUIPMENTS LIST FOR ALL TEST ITEMS

Radiation Test equipment

| Kind of Equipment | Manufacturer | Type No. | Serial No. | Last calibration | Calibrated until |
|-----------------------|--------------|---------------------|------------|------------------|------------------|
| Spectrum Analyzer | Agilent | E4407B | MY50140340 | 2015.10.25 | 2016.10.24 |
| Test Receiver | R&S | ESCI | 101427 | 2015.10.25 | 2016.10.24 |
| Bilog Antenna | TESEQ | CBL6111D | 34678 | 2015.11.25 | 2016.11.24 |
| Horn Antenna | Schwarzbeck | BBHA 9120D(1201) | 9120D-1343 | 2015.03.06 | 2016.03.05 |
| 50Ω Coaxial Switch | Anritsu | MP59B | 6200264416 | 2015.06.06 | 2016.06.05 |
| PreAmplifier | Agilent | 8449B | 60538 | 2015.10.25 | 2016.10.24 |
| Loop Antenna | ARA | PLA-1030/B | 1029 | 2015.06.08 | 2016.06.07 |

Conduction Test equipment

| Kind of Equipment | Manufacturer | Type No. | Serial No. | Last calibration | Calibrated until |
|-------------------|--------------|----------|------------|------------------|------------------|
| EMI Test Receiver | R&S | ESPI | 102086 | 2015.11.20 | 2016.11.19 |
| LISN | R&S | ENV216 | 101242 | 2015.10.25 | 2016.10.24 |
| LISN | EMCO | 3810/2NM | 000-23625 | 2015.10.25 | 2016.10.24 |

RF Connected Test

| Kind of Equipment | Manufacturer | Type No. | Serial No. | Last calibration | Calibrated until |
|---------------------|--------------|----------|---------------|------------------|------------------|
| USB RF power sensor | DARE | RPR3006W | 15100041SNO03 | 2015.10.25 | 2016.10.24 |
| Spectrum Analyzer | Agilent | E4407B | MY50140340 | 2015.10.25 | 2016.10.24 |
| Signal Analyzer | Agilent | N9020A | MY49100060 | 2015.11.18 | 2016.11.17 |

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3. EMC EMISSION TEST

3.1 CONDUCTED EMISSION MEASUREMENT

3.1.1 POWER LINE CONDUCTED EMISSION LIMITS

operating frequency band. In case the emission fall within the restricted band specified on Part 15.247&207(a) limit in the table below has to be followed.

| | Class B | Standard | |
|-----------------|------------|-----------|----------|
| FREQUENCY (MHz) | Quasi-peak | Average | Standard |
| 0.15 -0.5 | 66 - 56 * | 56 - 46 * | CISPR |
| 0.50 -5.0 | 56.00 | 46.00 | CISPR |
| 5.0 -30.0 | 60.00 | 50.00 | CISPR |

| 0.15 -0.5 | 66 - 56 * | 56 - 46 * | FCC |
|-----------|-----------|-----------|-----|
| 0.50 -5.0 | 56.00 | 46.00 | FCC |
| 5.0 -30.0 | 60.00 | 50.00 | FCC |

Note:

(1) The tighter limit applies at the band edges.

(2) The limit of " * " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

The following table is the setting of the receiver

| Receiver Parameters | Setting |
|---------------------|----------|
| Attenuation | 10 dB |
| Start Frequency | 0.15 MHz |
| Stop Frequency | 30 MHz |
| IF Bandwidth | 9 kHz |

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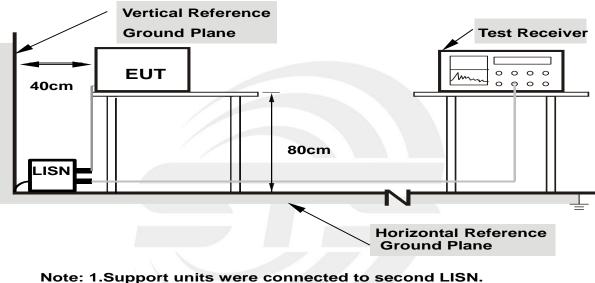


3.2 TEST PROCEDURE

a. The EUT was placed 0.4 meters from the horizontal ground plane with EUT being connected 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.

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- b. 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 40 cm long.
- c. 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.
- d. LISN at least 80 cm from nearest part of EUT chassis.
- e. For the actual test configuration, please refer to the related Item -EUT Test Photos.



3.3 TEST SETUP

2.Both of LISNs (AMN) are 80 cm from EUT and at least 80 from other units and other metal planes

3.4 EUT OPERATING CONDITIONS

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.



3.5 TEST RESULTS

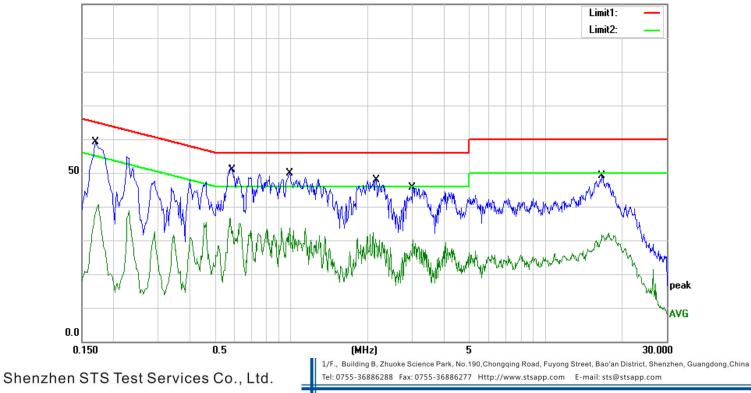
| EUT : | EUT : smart phone | | V55 |
|----------------|-----------------------------------|---------------------|--------|
| Temperature : | 26 ℃ | Relative Humidity : | 54% |
| Pressure : | 1010hPa | Phase : | L |
| Test Voltage : | DC 5V from Adapter AC120V/60Hz | Test Mode : | Mode 2 |

| Frequency | Reading | Correct | Result | Limit | Margin | Demerle |
|-----------|---------|------------|--------|--------|--------|---------|
| (MHz) | (dBuV) | Factor(dB) | (dBuV) | (dBuV) | (dB) | Remark |
| 0.1785 | 44.88 | 10.00 | 54.88 | 64.56 | -9.68 | QP |
| 0.1785 | 38.50 | 10.00 | 48.50 | 54.56 | -6.06 | AVG |
| 0.2714 | 42.59 | 9.93 | 52.52 | 61.07 | -8.55 | QP |
| 0.2714 | 33.66 | 9.93 | 43.59 | 51.07 | -7.48 | AVG |
| 0.8507 | 39.89 | 9.95 | 49.84 | 56.00 | -6.16 | QP |
| 0.8507 | 31.13 | 9.95 | 41.08 | 46.00 | -4.92 | AVG |
| 2.8782 | 35.80 | 10.01 | 45.81 | 56.00 | -10.19 | QP |
| 2.8782 | 22.51 | 10.01 | 32.52 | 46.00 | -13.48 | AVG |
| 5.5306 | 35.54 | 10.20 | 45.74 | 60.00 | -14.26 | QP |
| 5.5306 | 22.73 | 10.20 | 32.93 | 50.00 | -17.07 | AVG |
| 24.5263 | 33.75 | 10.53 | 44.28 | 60.00 | -15.72 | QP |
| 24.5263 | 18.92 | 10.53 | 29.45 | 50.00 | -20.55 | AVG |

Remark:

1. Factor = Antenna Factor + Cable Loss – Pre-amplifier.

100.0 dBuV







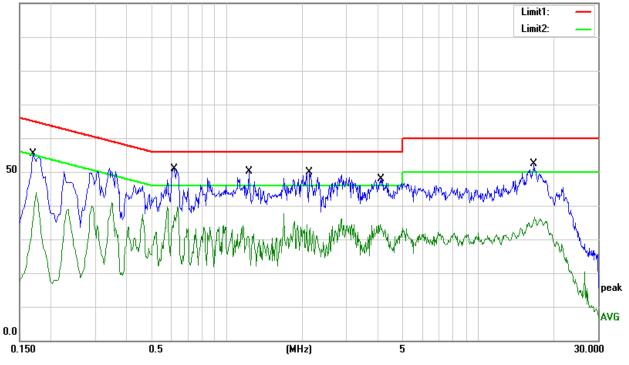
| EUT : | smart phone | Model Name. : | V55 |
|----------------|-----------------------------------|---------------------|--------|
| Temperature : | 26 ℃ | Relative Humidity : | 54% |
| Pressure : | 1010hPa | Phase : | N |
| Test Voltage : | DC 5V from Adapter AC120V/60Hz | Test Mode: | Mode 2 |

| Frequency | Reading | Correct | Result | Limit | Margin | Remark |
|-----------|---------|------------|--------|--------|--------|--------|
| (MHz) | (dBuV) | Factor(dB) | (dBuV) | (dBuV) | (dB) | Remark |
| 0.1708 | 39.47 | 10.00 | 49.47 | 64.92 | -15.45 | QP |
| 0.1708 | 29.52 | 10.00 | 39.52 | 54.92 | -15.40 | AVG |
| 0.6137 | 39.35 | 9.96 | 49.31 | 56.00 | -6.69 | QP |
| 0.6137 | 28.05 | 9.96 | 38.01 | 46.00 | -7.99 | AVG |
| 1.2234 | 38.98 | 10.00 | 48.98 | 56.00 | -7.02 | QP |
| 1.2234 | 24.49 | 10.00 | 34.49 | 46.00 | -11.51 | AVG |
| 2.1316 | 35.99 | 10.00 | 45.99 | 56.00 | -10.01 | QP |
| 2.1316 | 22.06 | 10.00 | 32.06 | 46.00 | -13.94 | AVG |
| 4.0768 | 34.79 | 10.19 | 44.98 | 56.00 | -11.02 | QP |
| 4.0768 | 25.02 | 10.19 | 35.21 | 46.00 | -10.79 | AVG |
| 16.7208 | 35.02 | 10.40 | 45.42 | 60.00 | -14.58 | QP |
| 16.7208 | 25.12 | 10.40 | 35.52 | 50.00 | -14.48 | AVG |

Remark:

1. Factor = Antenna Factor + Cable Loss - Pre-amplifier.

100.0 dBuV



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4. RADIATED EMISSION MEASUREMENT

4.1 RADIATED EMISSION LIMITS

6dBc in any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the restricted band specified on Part 15.247&205(a), then the Part15.247&209(a) limit in the table below has to be followed.

LIMITS OF RADIATED EMISSION MEASUREMENT (Frequency Range 9kHz-1000MHz)

| Frequencies | Field Strength | Measurement Distance |
|-------------|--------------------|----------------------|
| (MHz) | (micorvolts/meter) | (meters) |
| 0.009~0.490 | 2400/F(KHz) | 300 |
| 0.490~1.705 | 24000/F(KHz) | 30 |
| 1.705~30.0 | 30 | 30 |
| 30~88 | 100 | 3 |
| 88~216 | 150 | 3 |
| 216~960 | 200 | 3 |
| Above 960 | 500 | 3 |

LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

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

Notes:

(1) The limit for radiated test was performed according to FCC PART 15C.

(2) The tighter limit applies at the band edges.

(3) Emission level (dBuV/m)=20log Emission level (uV/m).

| Spectrum Parameter | Setting |
|---------------------------------|--------------------------------|
| Attenuation | Auto |
| Detector | Peak |
| Start Frequency | 1000 MHz(Peak/AV) |
| Stop Frequency | 10th carrier harmonic(Peak/AV) |
| RB / VB (emission in restricted | |
| band) | 1 MHz / 1 MHz, AV=3 MHz |

| 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 |

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4.2 TEST PROCEDURE

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.

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- b. The EUT was placed on the top of a rotating table 0.8 meters(above 1GHz is 1.5 m) above the ground at a 3 meter open area test site. 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(above 1GHz is 1.5 m); 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. 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.
- e. 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.
- f. For the actual test configuration, please refer to the related Item –EUT Test Photos. Note:

Both horizontal and vertical antenna polarities were tested

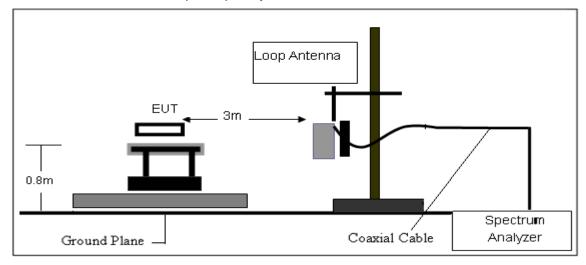
and performed pretest to three orthogonal axis. The worst case emissions were reported



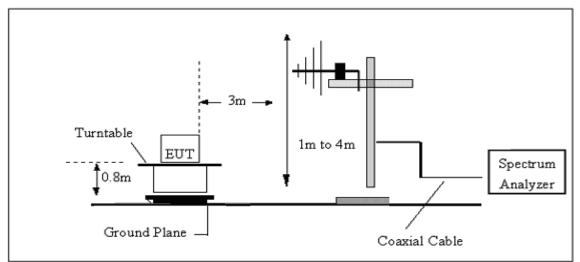


4.3 TEST SETUP

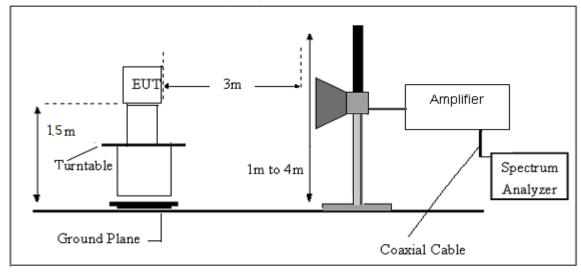
(A) Radiated Emission Test-Up Frequency Below 30MHz



(B) Radiated Emission Test-Up Frequency 30MHz~1GHz



(C) Radiated Emission Test-Up Frequency Above 1GHz





4.4 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of 2.3 Unless otherwise a special operating condition is specified in the follows during the testing.

4.5 TEST RESULTS

(Between 9KHz - 30 MHz)

| EUT: | smart phone | Model Name. : | V55 |
|--------------|-------------|---------------------|-----------------------------------|
| Temperature: | 20 ℃ | Relative Humidtity: | 48% |
| Pressure: | 1010 hPa | | DC 5V from Adapter AC120V/60Hz |
| Test Mode : | Link mode | Polarization : | |

| Freq. | Reading | Limit | Margin | State |
|-------|----------|----------|--------|-------|
| (MHz) | (dBuV/m) | (dBuV/m) | (dB) | P/F |
| | | | | |
| | / | | | |

NOTE:

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

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

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

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Between 30-1000MHz

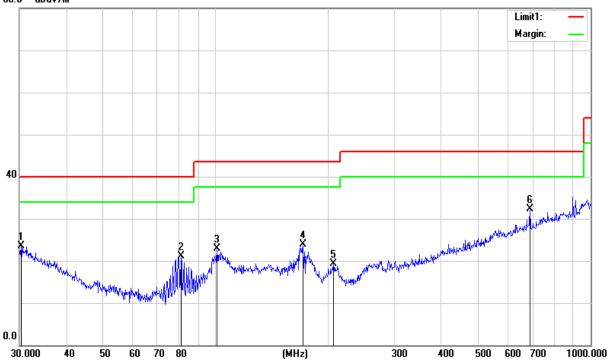
| EUT : | smart phone | Model Name. : | V55 |
|----------------|-----------------------------------|---------------------|------------|
| Temperature : | 26 ℃ | Relative Humidity : | 54% |
| Pressure : | 1010hPa | Phase : | Horizontal |
| Test Voltage : | DC 5V from Adapter AC120V/60Hz | Test Mode : | Mode 2 |

| Frequency | Reading | Correct | Result | Limit | Margin | Remark |
|-----------|---------|--------------|----------|----------|--------|--------|
| (MHz) | (dBuV) | Factor(dB/m) | (dBuV/m) | (dBuV/m) | (dB) | |
| 30.3171 | 4.89 | 18.54 | 23.43 | 40.00 | -16.57 | QP |
| 80.9274 | 12.91 | 8.16 | 21.07 | 40.00 | -18.93 | QP |
| 100.9340 | 12.02 | 10.81 | 22.83 | 43.50 | -20.67 | QP |
| 171.3925 | 13.36 | 10.45 | 23.81 | 43.50 | -19.69 | QP |
| 206.3976 | 9.76 | 9.54 | 19.30 | 43.50 | -24.20 | QP |
| 689.5643 | 8.99 | 23.36 | 32.35 | 46.00 | -13.65 | QP |

Remark:

1. Factor = Antenna Factor + Cable Loss - Pre-amplifier.





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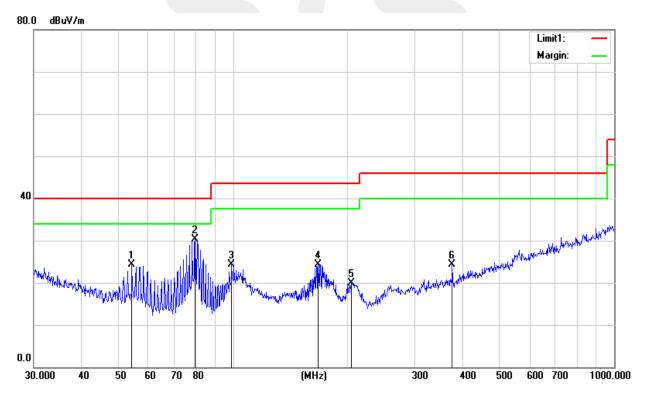
Page 21 of 38 Report No.: STS1512011F02

| EUT : | smart phone | Model Name. : | V55 |
|----------------|-----------------------------------|---------------------|----------|
| Temperature : | 26 ℃ | Relative Humidity : | 54% |
| Pressure : | 1010hPa | Phase : | Vertical |
| Test Voltage : | DC 5V from Adapter AC120V/60Hz | Test Mode : | Mode 2 |

| Frequency | Reading | Correct | Result | Limit | Margin | Remark |
|-----------|---------|--------------|----------|----------|--------|--------|
| (MHz) | (dBuV) | Factor(dB/m) | (dBuV/m) | (dBuV/m) | (dB) | |
| 54.2610 | 17.72 | 6.51 | 24.23 | 40.00 | -15.77 | QP |
| 79.5208 | 22.28 | 7.95 | 30.23 | 40.00 | -9.77 | QP |
| 99.1796 | 13.63 | 10.60 | 24.23 | 43.50 | -19.27 | QP |
| 167.2366 | 13.45 | 10.81 | 24.26 | 43.50 | -19.24 | QP |
| 204.2376 | 10.62 | 9.38 | 20.00 | 43.50 | -23.50 | QP |
| 375.9384 | 7.58 | 16.81 | 24.39 | 46.00 | -21.61 | QP |

Remark:

1. Factor = Antenna Factor + Cable Loss – Pre-amplifier.





Above 1000 MHz

| EUT : | smart phone | Model Name : | V55 |
|---------------|-------------|---------------------|---------|
| Temperature : | 20 ℃ | Relative Humidity : | 48% |
| Pressure : | 1010 hPa | Test Voltage : | DC 3.8V |

| Frequency (MHz) | Reading (dBuV) | Factor (dB) | Emission Level (dBµV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Comment | | |
|--------------------------|-------------------|----------------|-------------------------------|-------------------|----------------|----------|------------|--|--|
| | | Low | Channel (GF | SK/2402 MHz) | | | | | |
| 4804.20 | 67.08 | -3.62 | 63.46 | 74 | -10.54 | PK | Vertical | | |
| 4804.21 | 48.12 | -3.62 | 44.50 | 54 | -9.50 | AV | Vertical | | |
| 7206.13 | 63.08 | -0.9 | 62.18 | 74 | -11.82 | PK | Vertical | | |
| 7206.12 | 42.36 | -0.9 | 41.46 | 54 | -12.54 | AV | Vertical | | |
| 4803.99 | 63.10 | -3.65 | 59.45 | 74 | -14.55 | PK | Horizontal | | |
| 4803.99 | 45.14 | -3.65 | 41.49 | 54 | -12.51 | AV | Horizontal | | |
| | | Mid | Channel (GFS | SK/2440 MHz) | | | | | |
| 4882.08 | 66.07 | -3.65 | 62.42 | 74 | -11.58 | РК | Vertical | | |
| 4882.07 | 50.17 | -3.65 | 46.52 | 54 | -7.48 | AV | Vertical | | |
| 7320.22 | 62.11 | -0.83 | 61.28 | 74 | -12.72 | PK | Vertical | | |
| 7320.21 | 45.26 | -0.83 | 44.43 | 54 | -9.57 | AV | Vertical | | |
| 4882.18 | 62.47 | -3.68 | 58.79 | 74 | -15.21 | PK | Horizontal | | |
| 4882.15 | 46.11 | -3.68 | 42.43 | 54 | -11.57 | AV | Horizontal | | |
| | | High | h Channel (GF | SK/2480 MHz) |) | | | | |
| 4960.25 | 62.25 | -3.59 | 58.66 | 74 | -15.34 | РК | Vertical | | |
| 4960.30 | 46.42 | -3.59 | 42.83 | 54 | -11.17 | AV | Vertical | | |
| 7440.26 | 62.15 | -0.73 | 61.42 | 74 | -12.58 | PK | Vertical | | |
| 7440.30 | 46.50 | -0.73 | 45.77 | 54 | -8.23 | AV | Vertical | | |
| 4960.32 | 62.18 | -3.59 | 58.59 | 74 | -15.41 | РК | Horizontal | | |
| 4960.31 | 46.42 | -3.59 | 42.83 | 54 | -11.17 | AV | Horizontal | | |
| Remark: 1. Factor = A | | | | | | | | | |



4.6 TEST RESULTS (RESTRICTED BANDS REQUIREMENTS)

| EUT : | smart phone | Model Name : | V55 |
|---------------|-------------|---------------------|---------|
| Temperature : | 20 ℃ | Relative Humidity : | 48% |
| Pressure : | 1010 hPa | Test Voltage : | DC 3.8V |

| Frequency (MHz) | Reading (dBuV) | Factor (dB) | Emission Level (dBµV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Comment |
|--------------------|-------------------|----------------|-------------------------------|-------------------|----------------|----------|------------|
| | | | GFSI | K | | | |
| 2390.0 | 69.38 | -12.99 | 56.39 | 74 | -17.61 | PK | Vertical |
| 2390.0 | 55.17 | -12.99 | 42.18 | 54 | -11.82 | AV | Vertical |
| 2390.0 | 70.37 | -12.99 | 57.38 | 74 | -16.62 | PK | Horizontal |
| 2390.0 | 54.19 | -12.99 | 41.20 | 54 | -12.80 | AV | Horizontal |
| 2483.6 | 71.21 | -12.78 | 58.43 | 74 | -15.57 | PK | Vertical |
| 2483.6 | 54.12 | -12.78 | 41.34 | 54 | -12.66 | AV | Vertical |
| 2483.6 | 71.30 | -12.78 | 58.52 | 74 | -15.48 | PK | Horizontal |
| 2483.6 | 54.21 | -12.78 | 41.43 | 54 | -12.57 | AV | Horizontal |
| Pomark: | | | | | | | |

Remark:

1. Factor = Antenna Factor + Cable Loss – Pre-amplifier.

Low measurement frequencies is range from 2310 to 2400 MHz, high measurement frequencies is range from 2483.5 to 2500 MHz.

Only show the worst point data of the emissions in the frequency 2310-2400 MHz and 2483.5-2500 MHz.

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5. CONDUCTED SPURIOUS EMISSIONS

5.1 REQUIREMENT

According to FCC section 15.247(d), in any 100kHz 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 20dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.

5.2 TEST PROCEDURE

According to FCC section 15.247(d), in any 100kHz 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 20dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.

| Spectrum Parameter | Setting |
|---------------------------------------|---------------------------------|
| Detector | Peak |
| Start/Stop Frequency | 30 MHz to 10th carrier harmonic |
| RB / VB (emission in restricted band) | 100 KHz/300 KHz |
| Trace-Mode: | Max hold |

For Band edge

| Spectrum Parameter | Setting | | | |
|---------------------------------------|----------------------------------|--|--|--|
| Detector | Peak | | | |
| Chart/Otan Engrueday | Lower Band Edge: 2310 – 2404 MHz | | | |
| Start/Stop Frequency | Upper Band Edge: 2478 – 2500 MHz | | | |
| RB / VB (emission in restricted band) | 100 KHz/300 KHz | | | |
| Trace-Mode: | Max hold | | | |

5.3 TEST SETUP



Spectrum Analyzer

EUT

The EUT which is powered by the Battery, is coupled to the Spectrum Analyzer; the RF load attached to the EUT antenna terminal is 500hm; the path loss as the factor is calibrated to correct the reading. Make the measurement with the spectrum analyzer's resolution bandwidth(RBW) = 100 kHz. In order to make an accurate measurement, set the span greater than RBW.

5.4 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.3 Unless otherwise a special operating condition is specified in the follows during the testing.



5.5 TEST RESULTS

| EUT : | smart phone | Model Name : | V55 |
|---------------|---------------------------|---------------------|---------|
| Temperature : | 25 ℃ | Relative Humidity : | 50% |
| Pressure : | 1012 hPa | Test Voltage : | DC 3.8V |
| Test Mode : | TX Mode /CH01, CH20, CH40 | | |

01 CH

| | RF 50 Ω AC | | SENSE:INT | ALIGN AUTO | 07:07:18 PM Dec 02, 2015 | - | | |
|------------|--|-------------------------------------|------------------------------------|--|--|------------------------|--|--|
| nter Fred | q 12.51500000 | 10 GHz PNO: Fast G IFGain:Low | Trig: Free Run #Atten: 30 dB | Avg Type: Log-Pwr | TRACE 1 2 3 4 5 6 TYPE M MAAAAAA DET P P P P P P | Frequency Auto Tu | | |
| B/div R | Ref Offset 0.5 dB Mkr1 2.402 GHz 3/div Ref 0.21 dBm -4.791 dBm | | | | | | | |
| | 1 | | | | | Center Fr | | |
| 3 | | | | | -24.79 dBm | 12.515000000 G | | |
| | | | | | -24.79 ubm | 12.010000000 | | |
| | | | | | | | | |
| | | | | | | Start Fr | | |
| | and the second second | and the second second | and the state of the second second | and the second s | | 30.000000 M | | |
| | | | | | | | | |
| | | | | | | Stop Fr | | |
| | | | | | | 25.00000000 0 | | |
| | | | | | | | | |
| es BW 10 | | #VBV | / 300 kHz | Sweep | Stop 25.00 GHz 2.39 s (8001 pts) | CF St 2.497000000 G | | |
| MODE TRC S | SOL X | | | JNCTION FUNCTION WIDTH | FUNCTION VALUE | Auto N | | |
| | f f 2 | 2.402 GHz 4.716 GHz | -4.791 dBm -47.946 dBm | | | | | |
| | | | -41.540 dBm | | | Freq Off | | |
| | | | | | | 0 | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | STATUS |] | 1 | | |
| | | | | 011100 | | | | |

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20 CH

| | quency |
|--|------------------|
| PNO: Fast Trig: Free Run Type Monorman Type Type Type Type Type Type Type Type | |
| Ref Offset 0.5 dB | uto Tune |
| 10 dB/div Ref -0.20 dBm5.200 dBm | |
| -10.2 | enter Freq |
| | 00000 GHz |
| -30.2 | |
| -40.2 | Start Freq |
| -50.2 -60.2 | 00000 MHz |
| -80.2 | |
| | Stop Freq |
| | 00000 GHz |
| | |
| Start 30 MHz Stop 25.00 GHz #Res BW 100 kHz #VBW 300 kHz Sweep 2.39 s (8001 pts) | CF Step |
| X X Y FUNCTION FUNCTION WIDTH FUNCTION VALUE | 00000 GHz Man |
| I N 1 f 2.440 GHz -5.20 dBm 2 N 1 f 24.663 GHz -48.19 dBm | |
| 3 | eq Offset |
| 4 | 0 Hz |
| 6 7 | |
| 9 | |
| 10 | |
| 12 | |
| MSG STATUS | |

40 CH

| aL | RF 50 | Ω AC | | SENSE:INT | | ALIGN AUTO | 07:17:20 P | MDec 02, 2015 | _ |
|------------------|--|-----------|-------------------------------|---------------------------------|---------|--------------------------|------------|--|------------------------|
| nter F | req 12.51 | Р | GHz NO: Fast 😱 Gain:Low | Trig: Free Run #Atten: 30 dB | Avg | Type: Log-Pwr | TYP | атарана Преминистрана Преминистрана Преререре | Frequency |
| IB/div | Ref Offset Ref -1.10 | | | | | IV | | .80 GHz 02 dBm | Auto Tu |
| | 1 | | | | | | | | Center F |
| | | | | | | | | -26.10 dBm | 12.515000000 |
| | | | | | | | | 2 | |
| | | har a | | | | and the second statement | - | - | Start F 30.000000 M |
| | and the state of t | | Man Concertification | | | | | | 00.0000001 |
| | | | | | | | | | Stop F |
| | | | | | | | | | 25.000000000 |
| rt 30 M es BW | VIHz 100 kHz | | #VBW | 300 kHz | | Sweep | | 5.00 GHz 8001 pts) | CF S |
| MODE T | RC SCL | × 2.48 | 30 GHz | -6.102 dBm | UNCTION | FUNCTION WIDTH | FUNCTIO | ON VALUE | Auto |
| N 1 | 1 f | 24.87 | 78 GHz | -48.531 dBm | | | | | Freq Off |
| | | | | | | | | | (|
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | STATUS | | | 11 |

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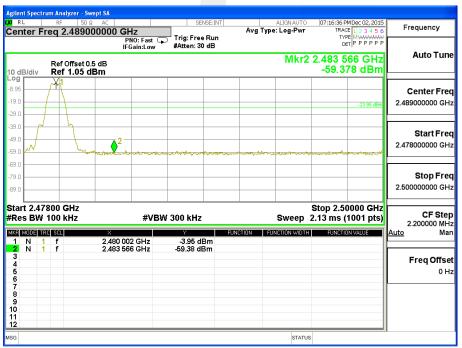


For Band edge

01 CH

| Agilent Spect | | | | | | | | | |
|---------------------------|--|---|--------------------------------|------------|-----------------|------------------------|-------------------------|---------------|--------------------------------------|
| Center F | RF | 50 Ω AC 57000000 GHz | SE | NSE:INT | | ALIGNAUTO : Log-Pwr | TRAC | ADec 02, 2015 | Frequency |
| | Ref Offs | PNO: Fas IFGain:Lo set 0.5 dB | Trig: Free w #Atten: 30 | | | Mkr2 | DE 2.401 7 | 44 GHz | Auto Tune |
| 10 dB/div Log -8.01 | Ref 1. | 99 dBm | | | | | -3.01 | 0 dBm | Center Freq |
| -18.0 -28.0 -38.0 | | | | | | | | -23.01 dEm | 2.357000000 GHz |
| | and the state of t | by marked my walk have made and a faith | fre NLIM warmed and open story | Jpygrident | - Martin Martin | | ngaliyama di Mada | , I I | Start Freq 2.310000000 GHz |
| -68.0 -78.0 -88.0 | | | | | | | | | Stop Freq 2.404000000 GHz |
| Start 2.3′ #Res BW | 100 kHz | <u>#</u> | /BW 300 kHz | | | <u> </u> | Stop 2.40 9.00 ms (1 | 1001 pts) | CF Step 9.400000 MHz |
| | nc scu 1 f 1 f | × 2.399 770 GHz 2.401 744 GHz | | | TIUN | NCTION WIDTH | FUNCTIO | NVALUE | <u>Auto</u> Man |
| 4 5 6 7 | | | | | | | | | Freq Offset 0 Hz |
| 8 9 10 11 12 | | | | | | | | | |
| MSG | | | | | | STATUS | 5 | | |

40 CH





6. POWER SPECTRAL DENSITY TEST

6.1 APPLIED PROCEDURES / LIMIT

| FCC Part15 (15.247) , Subpart C | | | | | | | | |
|---------------------------------|------------------------|------------------------|--------------------------|--------|--|--|--|--|
| Section | Test Item | Limit | Frequency Range (MHz) | Result | | | | |
| 15.247 | Power Spectral Density | 8 dBm (in any 3KHz) | 2400-2483.5 | PASS | | | | |

6.2 TEST PROCEDURE

- 1. Set analyzer center frequency to DTS channel center frequency.
- 2. Set the span to 1.5 times the DTS channel bandwidth.
- 3. Set the RBW to: 100 kHz \ge RBW \ge 3 kHz.
- 4. Set the VBW \geq 3 x RBW.
- 5. Detector = peak.
- 6. Sweep time = auto couple.
- 7. Trace mode = max hold.
- 8. Allow trace to fully stabilize.
- 9. Use the peak marker function to determine the maximum amplitude level.
- 10. If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

6.3 TEST SETUP

| EUT | SPECTRUM |
|-----|----------|
| | ANALYZER |

6.4 EUT OPERATION CONDITIONS

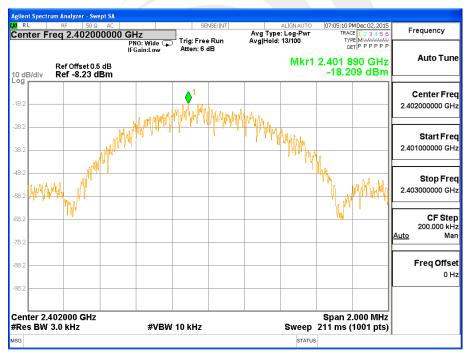
The EUT tested system was configured as the statements of 2.3 Unless otherwise a special operating condition is specified in the follows during the testing.



6.5 TEST RESULTS

| EUT : | smart phone | Model Name : | V55 | |
|---------------|---------------------------|---------------------|---------|--|
| Temperature : | 25 ℃ | Relative Humidity : | 60% | |
| Pressure : | 1015 hPa | Test Voltage : | DC 3.8V | |
| Test Mode : | TX Mode /CH01, CH20, CH40 | | | |

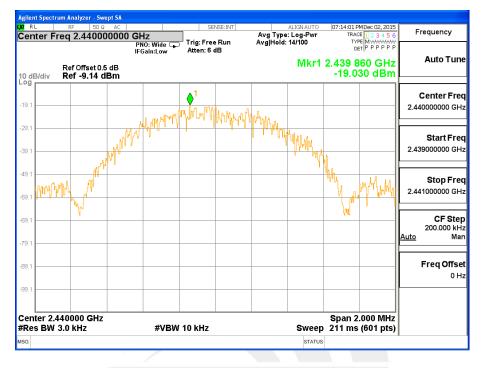
| Frequency | Power Density (dBm) | Limit (dBm) | Result |
|-----------|------------------------|----------------|--------|
| 2402 MHz | -18.209 | 8 | PASS |
| 2440 MHz | -19.030 | 8 | PASS |
| 2480 MHz | -19.079 | 8 | PASS |



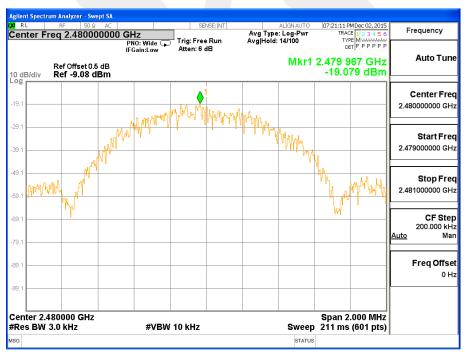
TX CH01



TX CH20



TX CH40



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7. BANDWIDTH TEST

7.1 APPLIED PROCEDURES / LIMIT

| FCC Part15 (15.247), Subpart C | | | | |
|--------------------------------|-----------|------------------------------|--------------------------|--------|
| Section | Test Item | Limit | Frequency Range (MHz) | Result |
| 15.247(a)(2) | Bandwidth | >= 500KHz (6dB bandwidth) | 2400-2483.5 | PASS |

7.2 TEST PROCEDURE

The automatic bandwidth measurement capability of an instrument may be employed using the X dB bandwidth mode with X set to 6 dB, if the functionality described above (i.e., RBW = 100 kHz, VBW \geq 3RBW, peak detector with maximum hold) is implemented by the instrumentation function. When using this capability, care shall be taken so that the bandwidth measurement is not influenced by any intermediate power nulls in the fundamental emission that might be \geq 6 dB.

7.3 TEST SETUP

| EUT | SPECTRUM |
|-----|----------|
| | ANALYZER |

7.4 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.3 Unless otherwise a special operating condition is specified in the follows during the testing.

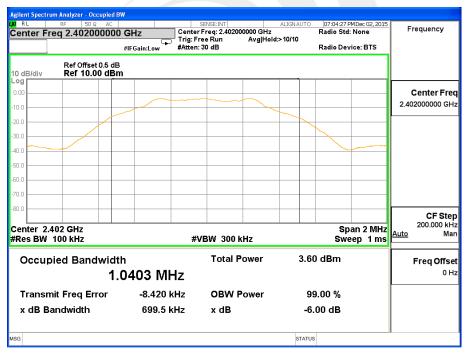


7.5 TEST RESULTS

| EUT : | smart phone | Model Name : | V55 | |
|---------------|---------------------------|---------------------|---------|--|
| Temperature : | 25 ℃ | Relative Humidity : | 60% | |
| Pressure : | 1012 hPa | Test Voltage : | DC 3.8V | |
| Test Mode : | TX Mode /CH01, CH20, CH40 | | | |

| Frequency | 6dB Bandwidth (MHz) | Channel Separation (MHz) | Result |
|-----------|------------------------|--------------------------------|--------|
| 2402 MHz | 0.700 | >=500KHz | PASS |
| 2440 MHz | 0.698 | >=500KHz | PASS |
| 2480 MHz | 0.701 | >=500KHz | PASS |

TX CH 01

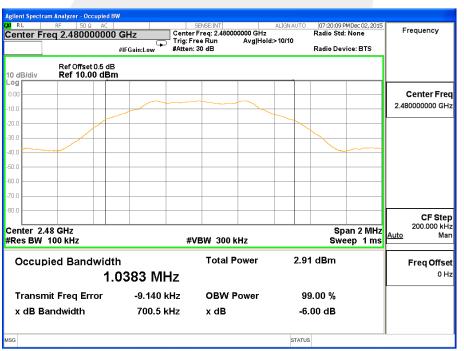




TX CH 20

| X/ RL | um Analyzer - Occupied BW RF 50 Ω AC | | SENSE:INT | | ALIGN AUTO | 07:12:12 PM Dec 03 | 2, 2015 |
|-----------|---|------------|------------------------------|----------|------------|--------------------|------------------------|
| | reg 2.440000000 | | enter Freq: 2.44000 | | | Radio Std: None | |
| | | | ig: Free Run Atten: 30 dB | Avg Hold | l>10/10 | Radio Device: B1 | rs |
| 10 dB/div | Ref Offset 0.5 dB Ref 10.00 dBm | | | | | | |
| 0.00 | | | | | | | Center Freq |
| -10.0 | | | | | | | 2.440000000 GHz |
| -20.0 | | | | | | | |
| -30.0 | | | | | | | |
| -40.0 | | | | | | | |
| -50.0 | | | | | | | |
| -60.0 | | | | | | | |
| -70.0 | | | | | | | |
| -80.0 | | | | | | | |
| Center 2, | | | | | | Span 2 | CF Step 200.000 kHz |
| #Res BW | | | #VBW 300 k | Hz | | Sweep 1 | |
| Occup | bied Bandwidth | ١ | Total P | ower | 3.2 | 1 dBm | Freq Offset |
| - | 1.0 | 0388 MHz | | | | | 0 Hz |
| Transn | nit Freq Error | -9.299 kHz | OBW P | ower | 99 | 9.00 % | |
| x dB B | andwidth | 697.7 kHz | x dB | | -6. | 00 dB | |
| | | | | | | | |
| MSG | | | | | STATUS | | |

TX CH 40



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8. PEAK OUTPUT POWER TEST

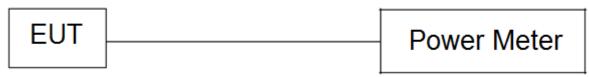
8.1 APPLIED PROCEDURES / LIMIT

| FCC Part15 (15.247), Subpart C | | | | |
|--------------------------------|----------------------|-----------------|--------------------------|--------|
| Section | Test Item | Limit | Frequency Range (MHz) | Result |
| 15.247(b)(3) | Peak Output Power | 1 watt or 30dBm | 2400-2483.5 | PASS |

8.2 TEST PROCEDURE

a. The EUT was directly connected to the Power Sensor&Power meter

8.3 TEST SETUP



8.4 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.3 Unless otherwise a special operating condition is specified in the follows during the testing.





8.5 TEST RESULTS

| EUT : | smart phone | Model Name : | V55 |
|---------------|---------------------------|---------------------|---------|
| Temperature : | 25 ℃ | Relative Humidity : | 60% |
| Pressure : | 1012 hPa | Test Voltage : | DC 3.8V |
| Test Mode : | TX Mode /CH01, CH20, CH40 | | |

| TX Mode | | | | |
|-------------|-----------|-----------------------------|-------|--|
| Test Channe | Frequency | Peak Conducted Output Power | LIMIT | |
| (MHz) | | (dBm) | dBm | |
| CH01 | 2402 | -2.222 | 30 | |
| CH20 | 2440 | -2.617 | 30 | |
| CH40 | 2480 | -2.905 | 30 | |



Shenzhen STS Test Services Co., Ltd.



9. ANTENNA REQUIREMENT

9.1 STANDARD 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 party shall be used with the device.

9.2 EUT ANTENNA

The EUT antenna is PIFA Antenna. It comply with the standard requirement.



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Radiated Measurement Photos



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