



FCC Part 15B TEST REPORT

Report No: STS1512058E01

Issued for

Shenzhen KVD Communications Equipment Limited

Room 13C,Block C,Electronics Science and Technology
Building,Shennan Road Middle,Shenzhen City,Guangdong
Province,China

| | |
|----------------|----------------------|
| Product Name: | GSM/WCDMA Smartphone |
| Brand Name: | DOOGEE |
| Model No.: | X3 |
| Series Model: | X3 Pro,X3 C,X3 Plus |
| FCC ID: | 2AFPY-X3 |
| Test Standard: | FCC Part 15B |

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TEST RESULT CERTIFICATION

Applicant's name..... Shenzhen KVD Communications Equipment Limited
Address Room 13C,Block C,Electronics Science and Technology Building, Shennan Road Middle,Shenzhen City,Guangdong Province,China

Manufacture's Name..... Shenzhen KVD Communications Equipment Limited
Address The second floor in A2 building, Silicon valley power new material industrial park,Zongyi Road,Dafu industrial park,Guanlan Guanguang Road,Baoan district,Shenzhen City,China

Product description

Product name..... GSM/WCDMA Smartphone

Brand name..... DOOGEE

Model and/or type reference.. X3

Standards..... FCC Part 15B

Test procedure..... ANSI C63.4-2014

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.....

Date of performance of tests .. 08 Dec. 2015 ~15 Dec. 2015

Date of Issue 16 Dec. 2015

Test Result **Pass**

Testing Engineer : ..

(Hakim Hou)

Technical Manager : ..

(Vita Li)

Authorized Signatory : ..

(Bovey Yang)





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**Revision History**

| Rev. | Issue Date | Report NO. | Effect Page | Contents |
|------|--------------|---------------|-------------|---------------|
| 00 | 16 Dec. 2015 | STS1512058E01 | ALL | Initial Issue |
| | | | | |





1. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

| EMISSION | | | |
|---|--------------------|--------|--------------------|
| Standard | Item | Result | Remarks |
| FCC 47 CFR Part 15 Subpart B (10-1-05 Edition) | Conducted Emission | PASS | Meet Class B limit |
| | Radiated Emission | PASS | Meet Class B limit |

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 %.

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



2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

| | |
|----------------------------|--|
| Equipment | GSM/WCDMA Smartphone |
| Trade Name | DOOGEE |
| Model Name | X3 |
| Series Model | X3 Pro,X3 C,X3 Plus |
| Model Difference | Only different in model name |
| Channel List | Please refer to the Note 2. |
| Power Rating | Adapter: Input: AC100-240V, 150mA, 50/60 Hz Output: DC 5V, 1000mA Battery: Rated Voltage:DC 3.7V capacity : 1800mAh |
| Hardware version number | -- |
| Software versioning number | -- |
| Connecting I/O Port(s) | USB Port*1/ Earphone *1 |

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

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 | USB port do data communication with PC |

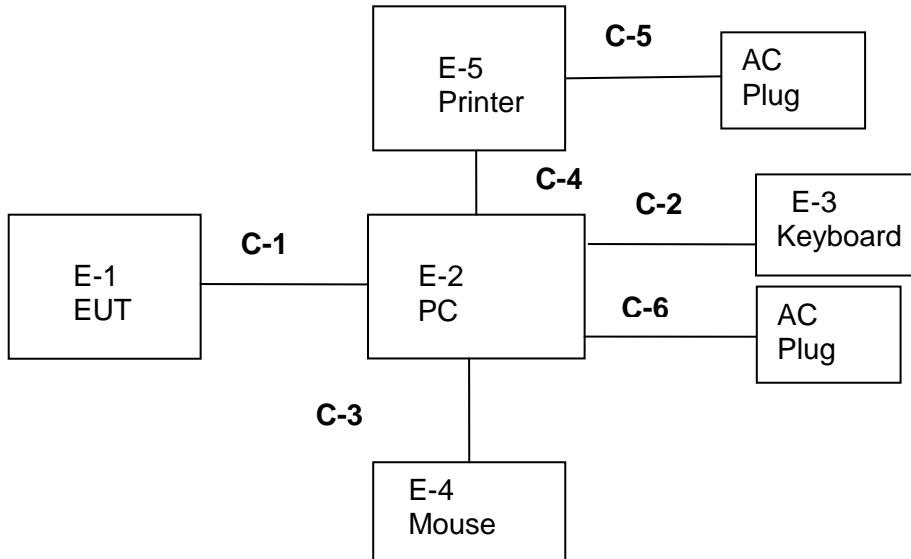
| For Conducted Test | |
|--------------------|--|
| Final Test Mode | Description |
| Mode 1 | USB port do data communication with PC |

| For Radiated Test | |
|-------------------|--|
| Final Test Mode | Description |
| Mode 1 | USB port do data communication with PC |

NOTE:

1. Due to the different configuration and test, in this list only some worse mode. The worst test data of the worse mode is reported by this report.
2. We have been tested for all available 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





2.4 DESCRIPTION OF SUPPORT UNITS

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. | Serial No. | Note |
|------|----------------------|------------|----------------|-----------------------|------|
| E-1 | GSM/WCDMA Smartphone | DOOGEE | X3 | N/A | EUT |
| E-2 | PC | 4CV428DQXR | 500-320cx | 4CV428DQYN | N/A |
| E-3 | Keyboard | HP | PR1101U | DKUSB1B06Q42209FBK800 | N/A |
| E-4 | Mouse | MOTOSPEED | F66 | 697738-001 | N/A |
| E-5 | Printer | LENOVO | LJ2400L | LP02781702 | N/A |
| | | | | | |

| Item | Shielded Type | Ferrite Core | Length | Note |
|------|-----------------------------|--------------|--------|------|
| C-1 | USB Cable shielded line | NO | 101cm | N/A |
| C-2 | USB Cable shielded line | NO | 120cm | N/A |
| C-3 | USB Cable shielded line | NO | 100cm | N/A |
| C-4 | USB Cable shielded line | NO | 120cm | N/A |
| C-5 | Printer Cable shielded line | NO | 100cm | N/A |
| C-6 | PC Cable shielded line | NO | 120cm | 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.
- (3) "YES" is means "shielded" "with core"; "NO" is means "unshielded" "without core".
- (4) PC is the FCC DOC is approved.



2.5 EQUIPMENTS LIST FOR ALL TEST ITEMS

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.

Radiation Test equipment

| Kind of Equipment | Manufacturer | Type No. | Serial No. | Last Calibration | Calibrated Until |
|--------------------------------------|--------------|---------------------|------------|------------------|------------------|
| EMI Test Receiver | R&S | ESCI | 101427 | 2015.10.25 | 2016.10.24 |
| Loop Antenna | Daze | ZN30900N | SEL0097 | 2015.10.27 | 2016.10.26 |
| 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 |
| PreAmplifier | Agilent | 8449B | 60538 | 2015.10.25 | 2016.10.24 |
| Temperature & Humidity | Mieo | HH660 | N/A | 2015.10.28 | 2016.10.27 |
| Universal radio communication tester | R&S | CMU200 | 111764 | 2015.10.25 | 2016.10.24 |
| Spectrum Analyzer | Agilent | E4407B | MY50140340 | 2015.10.25 | 2016.10.24 |

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 |
| Absorbing clamp | R&S | MDS-21 | 100668 | 2015.10.27 | 2016.10.26 |



3. EMC EMISSION TEST

3.1 CONDUCTED EMISSION MEASUREMENT

3.1.1 POWER LINE CONDUCTED EMISSION Limits

| FREQUENCY (MHz) | Class A (dBuV) | | Class B (dBuV) | | Standard |
|-----------------|----------------|---------|----------------|-----------|----------|
| | Quasi-peak | Average | Quasi-peak | Average | |
| 0.15 -0.5 | 79.00 | 66.00 | 66 - 56 * | 56 - 46 * | CISPR |
| 0.50 -5.0 | 73.00 | 60.00 | 56.00 | 46.00 | CISPR |
| 5.0 -30.0 | 73.00 | 60.00 | 60.00 | 50.00 | CISPR |

| | | | | | |
|-----------|-------|-------|-----------|-----------|-----|
| 0.15 -0.5 | 79.00 | 66.00 | 66 - 56 * | 56 - 46 * | FCC |
| 0.50 -5.0 | 73.00 | 60.00 | 56.00 | 46.00 | FCC |
| 5.0 -30.0 | 73.00 | 60.00 | 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 |

3.1.2 TEST PROCEDURE

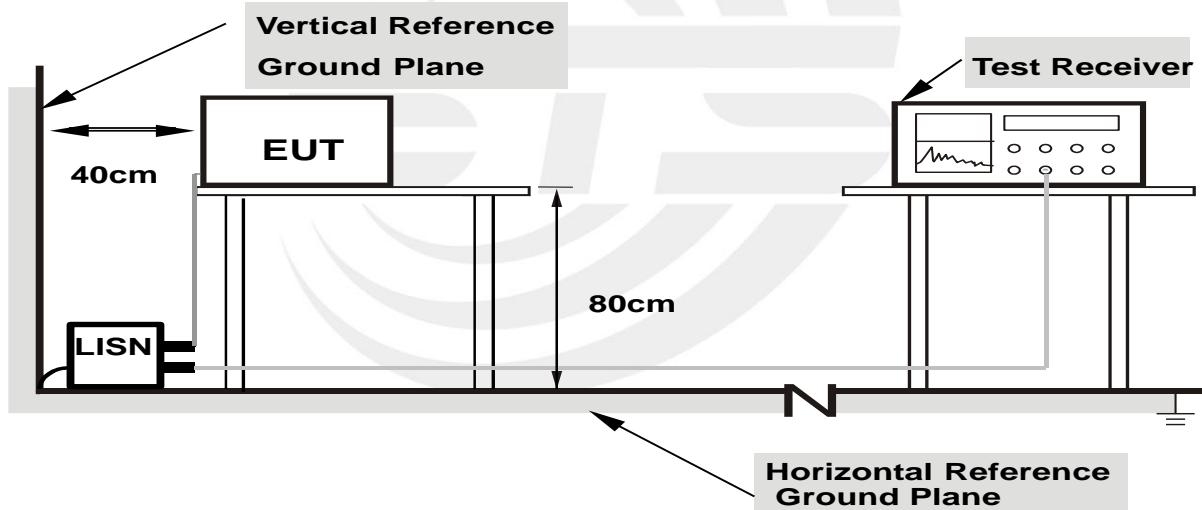
The EUT was placed 0.4 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.

- a. equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- 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.

3.1.3 DEVIATION FROM TEST STANDARD

No deviation

3.1.4 TEST SETUP



Note:

- 1. Support units were connected to second LISN.
- 2. Both of LISNs (AMN) are 80 cm from EUT and at least 80 cm from other units and other metal planes

3.1.5 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.



3.1.6 TEST RESULTS

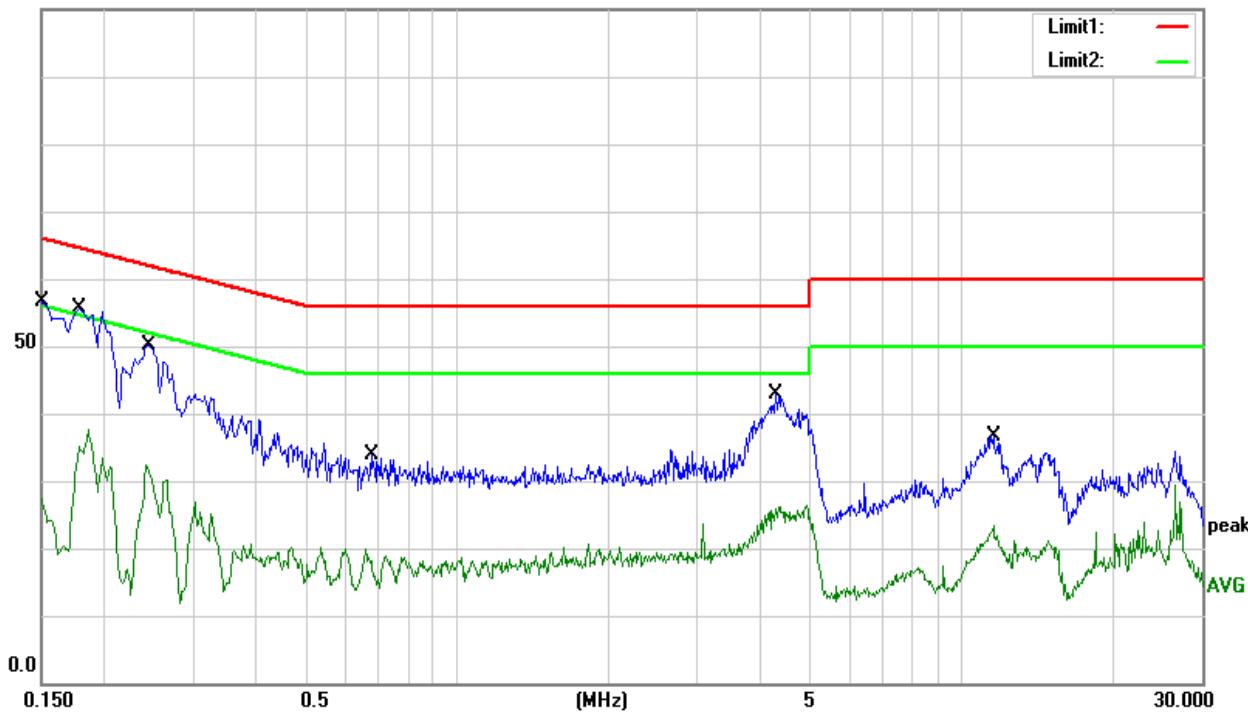
| | | | |
|---------------|----------------------|--------------------|--------|
| EUT: | GSM/WCDMA Smartphone | Model Name.: | X3 |
| Temperature: | 26 °C | Relative Humidity: | 54% |
| Pressure: | 1010hPa | Phase: | L |
| Test Voltage: | DC 5V | Test Mode: | Mode 1 |

| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB) | Result (dBuV) | Limit (dBuV/m) | Margin (dB) | Detector |
|-----|-----------------|----------------|-------------|---------------|----------------|-------------|----------|
| 1 | 0.1500 | 38.64 | 11.20 | 49.84 | 66.00 | -16.16 | QP |
| 2 | 0.1500 | 14.40 | 11.20 | 25.60 | 56.00 | -30.40 | AVG |
| 3 | 0.1775 | 41.71 | 10.00 | 51.71 | 64.60 | -12.89 | QP |
| 4 | 0.1775 | 21.61 | 10.00 | 31.61 | 54.60 | -22.99 | AVG |
| 5 | 0.2471 | 35.66 | 9.95 | 45.61 | 61.85 | -16.24 | QP |
| 6 | 0.2471 | 16.89 | 9.95 | 26.84 | 51.85 | -25.01 | AVG |
| 7 | 0.6758 | 18.33 | 9.99 | 28.32 | 56.00 | -27.68 | QP |
| 8 | 0.6758 | 7.05 | 9.99 | 17.04 | 46.00 | -28.96 | AVG |
| 9 | 4.3466 | 25.83 | 10.20 | 36.03 | 56.00 | -19.97 | QP |
| 10 | 4.3466 | 13.53 | 10.20 | 23.73 | 46.00 | -22.27 | AVG |
| 11 | 11.4971 | 19.69 | 10.37 | 30.06 | 60.00 | -29.94 | QP |
| 12 | 11.4971 | 10.50 | 10.37 | 20.87 | 50.00 | -29.13 | AVG |

Remark:

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

100.0 dBuV



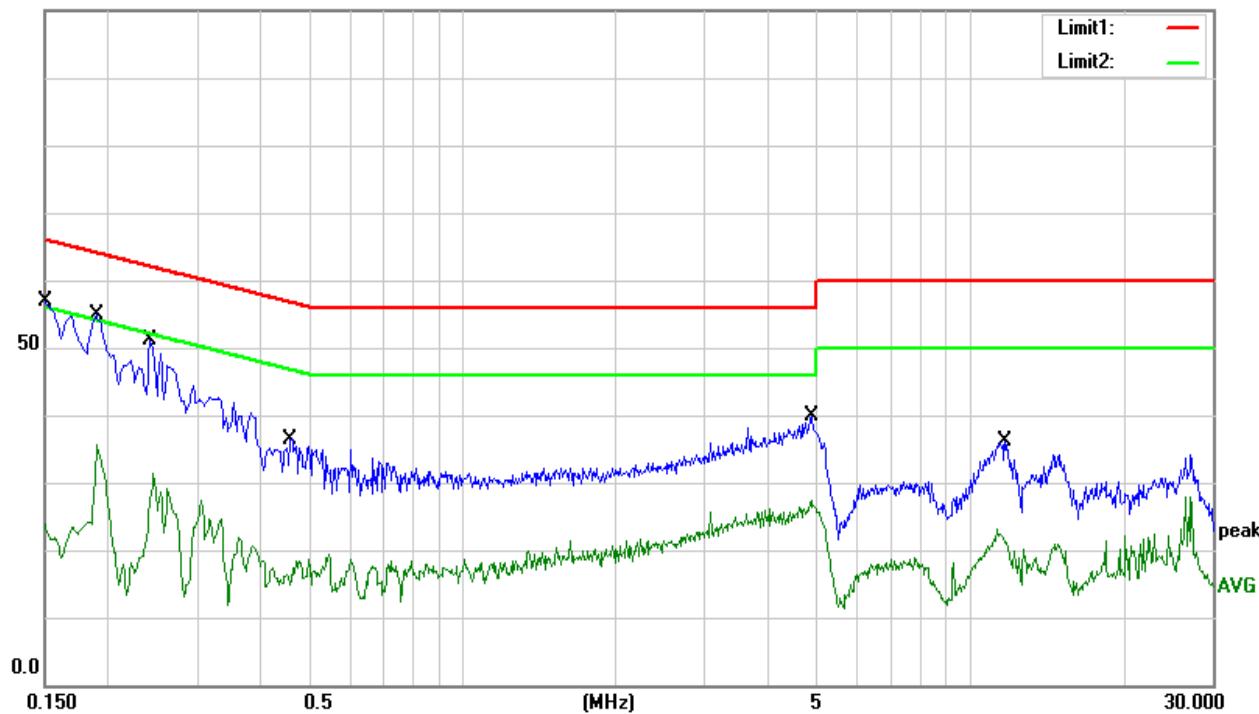
| | | | |
|---------------|----------------------|--------------------|--------|
| EUT: | GSM/WCDMA Smartphone | Model Name.: | X3 |
| Temperature: | 26 °C | Relative Humidity: | 54% |
| Pressure: | 1010hPa | Phase: | N |
| Test Voltage: | DC 5V | Test Mode: | Mode 1 |

| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB) | Result (dBuV) | Limit (dBuV/m) | Margin (dB) | Detector |
|-----|-----------------|----------------|-------------|---------------|----------------|-------------|----------|
| 1 | 0.1500 | 38.68 | 11.20 | 49.88 | 66.00 | -16.12 | QP |
| 2 | 0.1500 | 13.49 | 11.20 | 24.69 | 56.00 | -31.31 | AVG |
| 3 | 0.1900 | 40.88 | 10.00 | 50.88 | 64.04 | -13.16 | QP |
| 4 | 0.1900 | 22.22 | 10.00 | 32.22 | 54.04 | -21.82 | AVG |
| 5 | 0.2390 | 36.51 | 9.96 | 46.47 | 62.13 | -15.66 | QP |
| 6 | 0.2390 | 16.19 | 9.96 | 26.15 | 52.13 | -25.98 | AVG |
| 7 | 0.4600 | 19.62 | 9.94 | 29.56 | 56.69 | -27.13 | QP |
| 8 | 0.4600 | 5.24 | 9.94 | 15.18 | 46.69 | -31.51 | AVG |
| 9 | 4.8721 | 22.95 | 10.20 | 33.15 | 56.00 | -22.85 | QP |
| 10 | 4.8721 | 14.29 | 10.20 | 24.49 | 46.00 | -21.51 | AVG |
| 11 | 11.6810 | 18.18 | 10.30 | 28.48 | 60.00 | -31.52 | QP |
| 12 | 11.6810 | 9.20 | 10.30 | 19.50 | 50.00 | -30.50 | AVG |

Remark:

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

100.0 dBuV





3.2 RADIATED EMISSION MEASUREMENT

3.2.1 Radiated Emission Limits

20dBc in any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the restricted band specified on 15.105(a), then the 15.109(a) limit in the table below has to be followed.

| Frequencies (MHz) | Field Strength (micorvolts/meter) | Measurement Distance (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)

| FREQUENCY (MHz) | Class A (dBuV/m) (at 3M) | | Class B (dBuV/m) (at 3M) | |
|-----------------|--------------------------|---------|--------------------------|---------|
| | PEAK | AVERAGE | PEAK | AVERAGE |
| Above 1000 | 80 | 60 | 74 | 54 |

Note:

- (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).

FREQUENCY RANGE OF RADIATED MEASUREMENT (For unintentional radiators)

| Highest frequency generated or Upper frequency of measurement used in the device or on which the device operates or tunes (MHz) | Range (MHz) |
|---|---|
| Below 1.705 | 30 |
| 1.705 – 108 | 1000 |
| 108 – 500 | 2000 |
| 500 – 1000 | 5000 |
| Above 1000 | 5 th harmonic of the highest frequency or 40 GHz, whichever is lower |



| 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=10 Hz |

| 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 |

3.2.2 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.
- b. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. the height of the antenna shall vary between 1m 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.

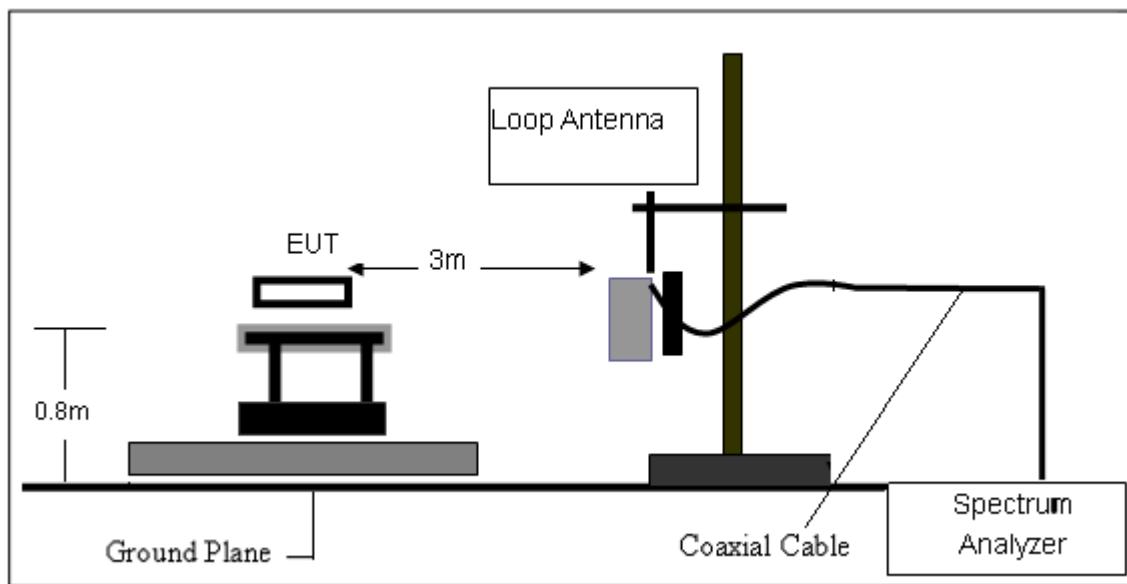
Note: Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported

3.2.3 DEVIATION FROM TEST STANDARD

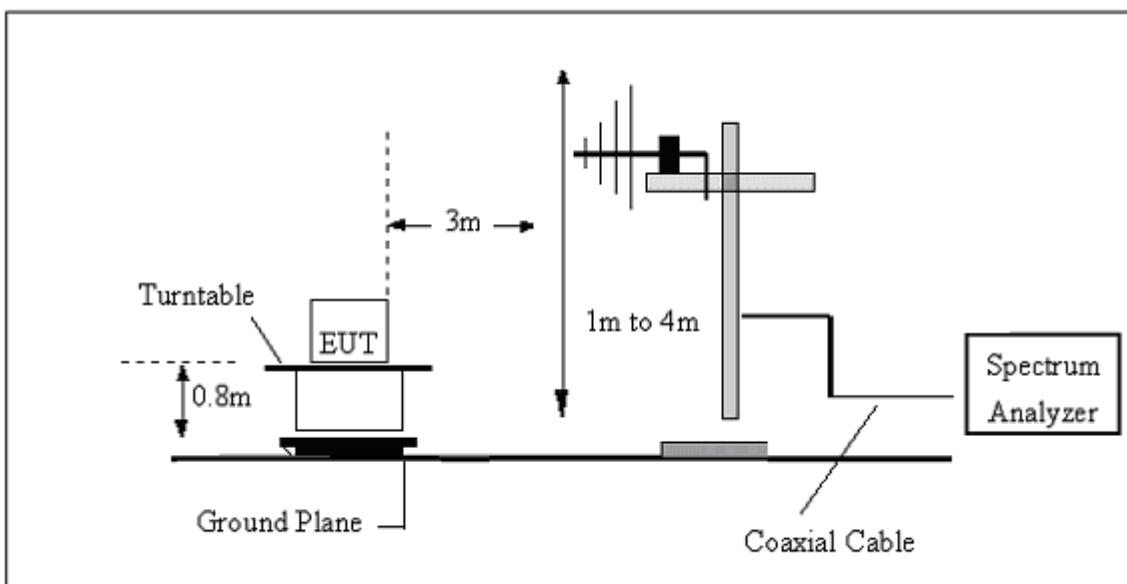
No deviation

3.2.4 TEST SETUP

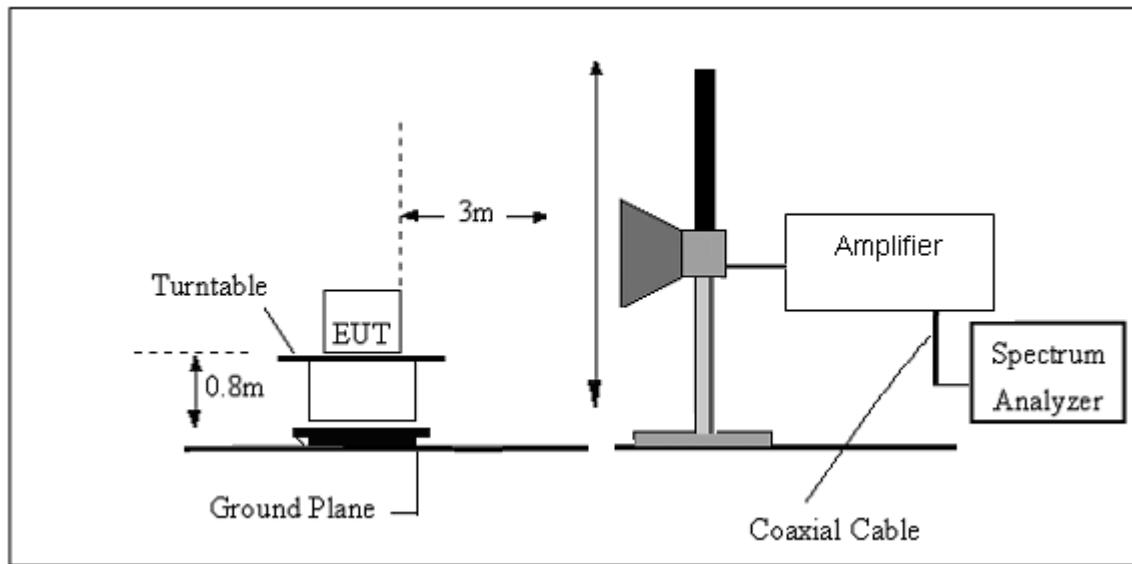
(A) Radiated Emission Test-Up Frequency Below 30MHz



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



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



3.2.5 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.



3.2.6 TEST RESULTS

Below 30MHz

| | | | |
|---------------|----------------------|--------------------|-----|
| EUT: | GSM/WCDMA Smartphone | Model Name.: | X3 |
| Temperature: | 26 °C | Relative Humidity: | 54% |
| Pressure: | 1010hPa | Phase: | N/A |
| Test Voltage: | DC 5V | Test Mode: | N/A |

| No. | Frequency (MHz) | Results (dB _{UV} /m) | Factor (dB) | Limit (dB _{UV} /m) | Margin (dB) | Detector | Table (o) | Height (cm) | ANT | Verdict |
|-----|-----------------|-------------------------------|-------------|-----------------------------|-------------|----------|-----------|-------------|-----|---------|
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |

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(dB_{UV}) + distance extrapolation factor.

Between 30-1000MHz

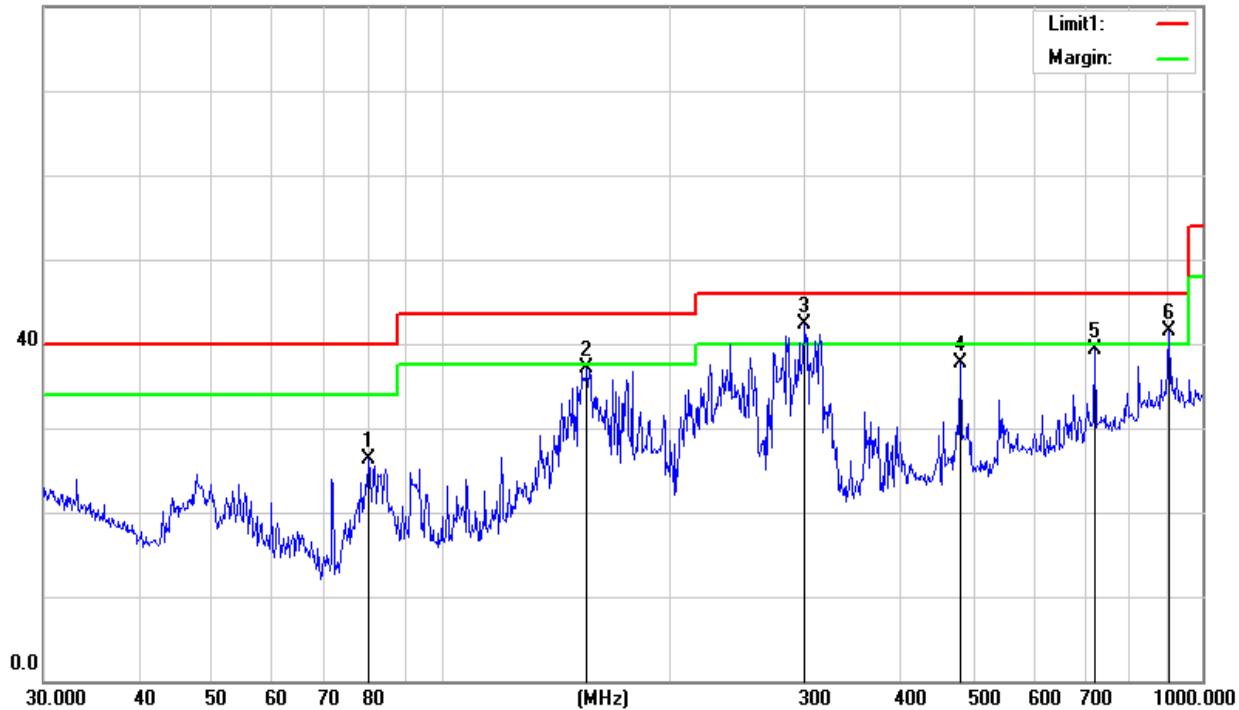
| | | | |
|---------------|----------------------|--------------------|------------|
| EUT: | GSM/WCDMA Smartphone | Model Name.: | X3 |
| Temperature: | 26 °C | Relative Humidity: | 54% |
| Pressure: | 1010hPa | Phase: | Horizontal |
| Test Voltage: | DC 5V | Test Mode: | Mode 1 |

| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB) | Results (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector |
|-----|-----------------|----------------|-------------|------------------|----------------|-------------|----------|
| 1 | 80.3620 | 18.12 | 8.09 | 26.21 | 40.00 | -13.79 | QP |
| 2 | 155.3642 | 25.26 | 11.82 | 37.08 | 43.50 | -6.42 | QP |
| 3 | 300.3672 | 27.64 | 14.69 | 42.33 | 46.00 | -3.67 | QP |
| 4 | 480.5276 | 17.79 | 19.95 | 37.74 | 46.00 | -8.26 | QP |
| 5 | 721.7260 | 14.95 | 24.44 | 39.39 | 46.00 | -6.61 | QP |
| 6 | 903.3093 | 14.74 | 26.69 | 41.43 | 46.00 | -4.57 | QP |

Remark:

1. All readings are Quasi-Peak and Average values.
2. Factor = Antenna Factor + Cable Loss.
3. N/A means All Data have pass Limit

80.0 dBuV/m





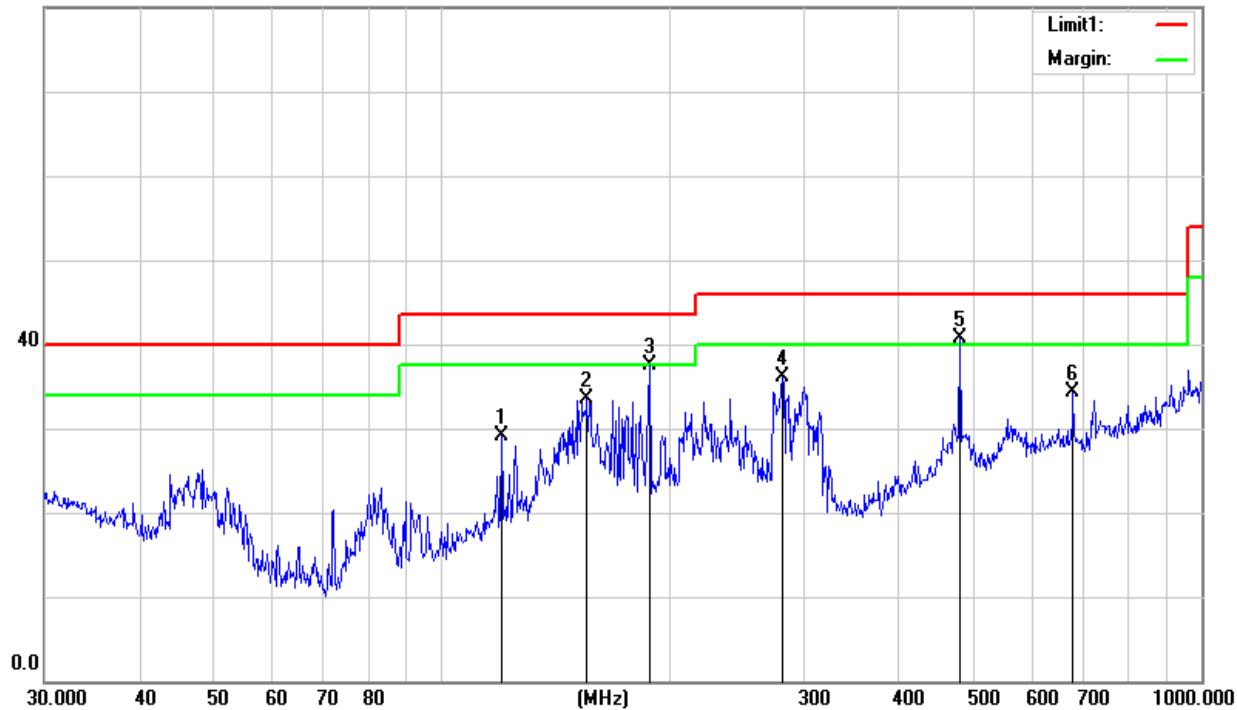
| | | | |
|---------------|----------------------|--------------------|----------|
| EUT: | GSM/WCDMA Smartphone | Model Name.: | X3 |
| Temperature: | 26 °C | Relative Humidity: | 54% |
| Pressure: | 1010hPa | Phase: | Vertical |
| Test Voltage: | DC 5V | Test Mode: | Mode 1 |

| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB) | Results (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector |
|-----|-----------------|----------------|-------------|------------------|----------------|-------------|----------|
| 1 | 119.8555 | 16.74 | 12.40 | 29.14 | 43.50 | -14.36 | QP |
| 2 | 155.3642 | 21.61 | 11.82 | 33.43 | 43.50 | -10.07 | QP |
| 3 | 187.7530 | 28.03 | 9.51 | 37.54 | 43.50 | -5.96 | QP |
| 4 | 281.0074 | 21.98 | 14.11 | 36.09 | 46.00 | -9.91 | QP |
| 5 | 480.5276 | 20.83 | 19.95 | 40.78 | 46.00 | -5.22 | QP |
| 6 | 677.5797 | 10.84 | 23.39 | 34.23 | 46.00 | -11.77 | QP |

Remark:

1. All readings are Quasi-Peak and Average values.
2. Factor = Antenna Factor + Cable Loss.
3. N/A means All Data have pass Limit

80.0 dBuV/m





Above 1GHz

The worst test data above 1 GHz was showed as the follow:

| | | | | | | |
|--------------|----------------------|--|--|--------------------|--------|--|
| EUT: | GSM/WCDMA Smartphone | | | Model Name.: | X3 | |
| Temperature: | 26 °C | | | Relative Humidity: | 54% | |
| Pressure: | 1010hPa | | | Test Mode: | Mode 1 | |

| Freq. (MHz) | Ant. Pol H/V | Peak Reading (dBuV) | AV Reading (dBuV) | Ant./CL CF | Actual Fs | | Peak | AV | Peak | AV |
|----------------|-----------------|---------------------------|-------------------------|---------------|------------------|----------------|-------|-------|--------|--------|
| | | | | | Peak (dBuV/m) | AV (dBuV/m) | Limit | Limit | margin | margin |
| 1097.53 | H | 57.75 | 41.28 | 5.15 | 62.90 | 46.43 | 74.00 | 54.00 | -11.10 | -7.57 |
| 2866.75 | H | 52.32 | 38.29 | 9.45 | 61.77 | 47.74 | 74.00 | 54.00 | -12.23 | -6.26 |
| N/A | | | | | | | | | | |
| 1069.46 | V | 52.27 | 37.55 | 5.15 | 57.42 | 42.70 | 74.00 | 54.00 | -16.58 | -11.30 |
| 2896.35 | V | 49.43 | 32.14 | 9.45 | 58.88 | 41.59 | 74.00 | 54.00 | -15.12 | -12.41 |
| N/A | | | | | | | | | | |

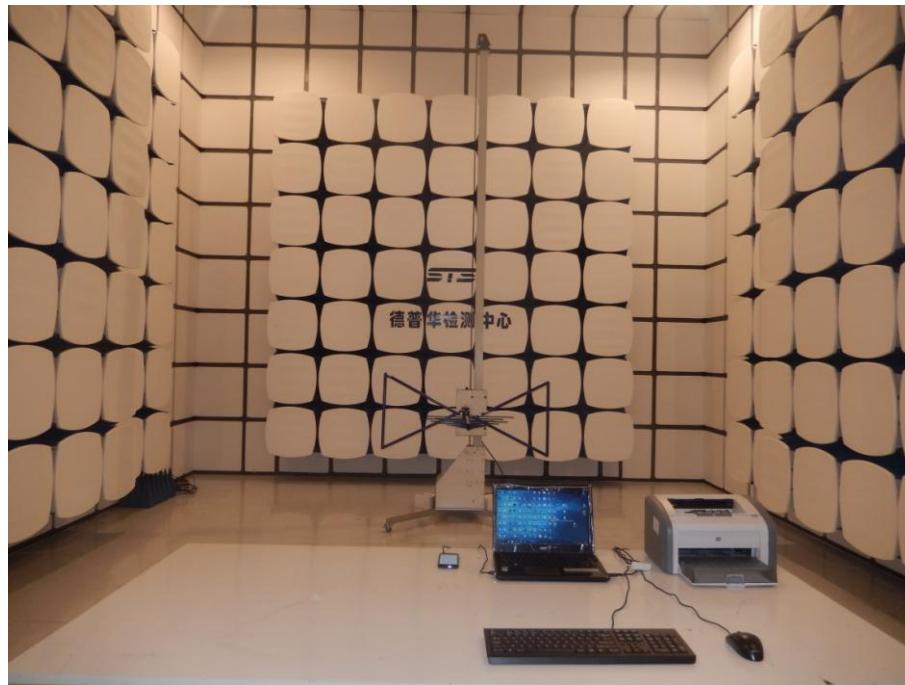
Notes:

1. Measuring frequencies from 1 GHz to 13GHz.
2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode of the emission shown in Actual FS column.
3. The frequency that above 3GHz is mainly from the environment noise.

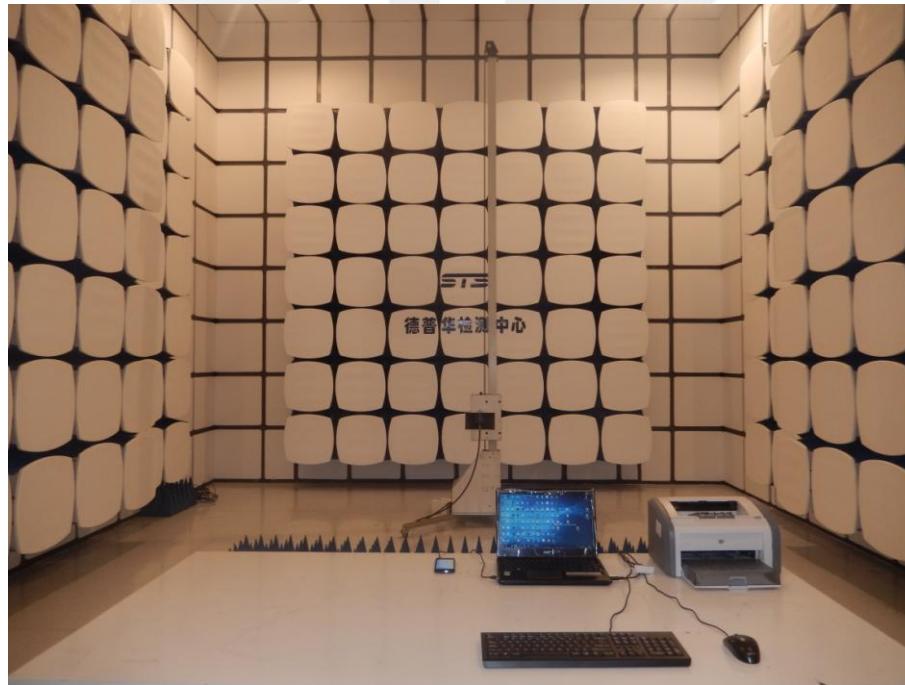
4. PHOTOS OF TEST SETUP

Radiated Measurement Photos

30MHz- 1GHz



Above 1GHz



Conducted Measurement Photos



* * * * * END OF THE REPORT * * * * *