

FCC Test Report

FCC ID: 2ATUIV1

Product: Smart Phone

Trade Mark: vernee

Model Number: V1

Family Model: K563A

Report No.: STR190610001009E

Prepared for

Shanghai Shiling Information Technology Co., Ltd.
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Prepared by

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TEST RESULT CERTIFICATION

Applicant's name : Shanghai Shiling Information Technology Co., Ltd.

Address : Room612, D Lot Huahan Science and Technology Building,
Nanshan District, Shenzhen, China

Manufacturer's Name : Shanghai Shiling Information Technology Co., Ltd.

Address : Room612, D Lot Huahan Science and Technology Building,
Nanshan District, Shenzhen, China

Product description

Product name : Smart Phone

Model and/or type reference : V1

Family Model: K563A

FCC Part15B

Standards : ANSI C63.4:2014

This device described above has been tested by NTEK, and the test results show that the equipment under test (EUT) is in compliance with Part 15 of FCC Rules. And it is applicable only to the tested sample identified in the report.

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Date of Test

Date (s) of performance of tests : 13 Jun. 2019 ~ 08 Jul. 2019

Date of Issue : 09 Jul, 2019

Test Result : **Pass**

Testing Engineer : Allen Liu
(Allen Liu)

Technical Manager : Jason Chen
(Jason Chen)

Authorized Signatory : Sam Chen
(Sam Chen)

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1. TEST SUMMARY

Test procedures according to the technical standards:

| EMC Emission | | | | |
|---------------------------------|--------------------|---------|----------|--------|
| Standard | Test Item | Limit | Judgment | Remark |
| FCC Part15B ANSI C63.4: 2014 | Conducted Emission | Class B | PASS | |
| | Radiated Emission | Class B | PASS | |

NOTE:

- (1) 'N/A' denotes test is not applicable in this Test Report
- (2) For client's request and manual description, the test will not be executed.

1.1 TEST FACILITY

Shenzhen NTEK Testing Technology Co., Ltd

Add. : 1/F, Building E, Fenda Science Park, Sanwei Community, Xixiang Street, Bao'an District, Shenzhen 518126 P.R. China.

FCC Registration Number:463705; IC Registration Number:9270A-1

CNAS Registration Number:L5516

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 %**.

A. Conducted Measurement :

| Test Site | Method | Measurement Frequency Range | U, (dB) | NOTE |
|-----------|--------|-----------------------------|---------|------|
| NTEKC01 | ANSI | 150 KHz ~ 30MHz | 3.2 | |

B. Radiated Measurement :

| Test Site | Method | Measurement Frequency Range | U, (dB) | NOTE |
|-----------|--------|-----------------------------|---------|------|
| NTEKA01 | ANSI | 30MHz ~ 1000MHz | 4.7 | |
| | | 1GHz ~12.4GHz | 5.0 | |

2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

| | | | | | |
|----------------------|--|----------------------|---------------------|----------------------|----------|
| Equipment | Smart Phone | | | | |
| Trade Mark | vernee | | | | |
| Model Name | V1 | | | | |
| Family Model | K563A | | | | |
| Model Difference | All models are the same circuit and RF module, except the model name. | | | | |
| Product Description | <p>The EUT is a Smart Phone.</p> <table border="1"><tr><td>Connecting I/O port:</td><td>Micro USB, Earphone</td></tr><tr><td>Operation Frequency:</td><td>2.568GHz</td></tr></table> <p>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.</p> | Connecting I/O port: | Micro USB, Earphone | Operation Frequency: | 2.568GHz |
| Connecting I/O port: | Micro USB, Earphone | | | | |
| Operation Frequency: | 2.568GHz | | | | |
| Power Source | DC 3.85V/4200mAh from Battery or DC 5V from USB Port. | | | | |
| Adapter | Model: APS-KI018WU-G Input: 100-240V~50/60Hz 0.5A Max Output: 5V/7V/9V ---2.0A, 12V ---1.5A | | | | |
| HW Version | K22AQ-MAINPCB-V2.0.0 | | | | |
| SW Version | K22NAQ-A.A.vR19.N2.180401 | | | | |

2.1.1 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 Data Transmission |
| Mode 2 | TF card Playing |
| Mode 3 | REC |
| Mode 4 | FM |

| For Conducted Test | |
|--------------------|-----------------------|
| Final Test Mode | Description |
| Mode 1 | USB Data Transmission |
| Mode 2 | TF card Playing |
| Mode 3 | REC |
| Mode 4 | FM |

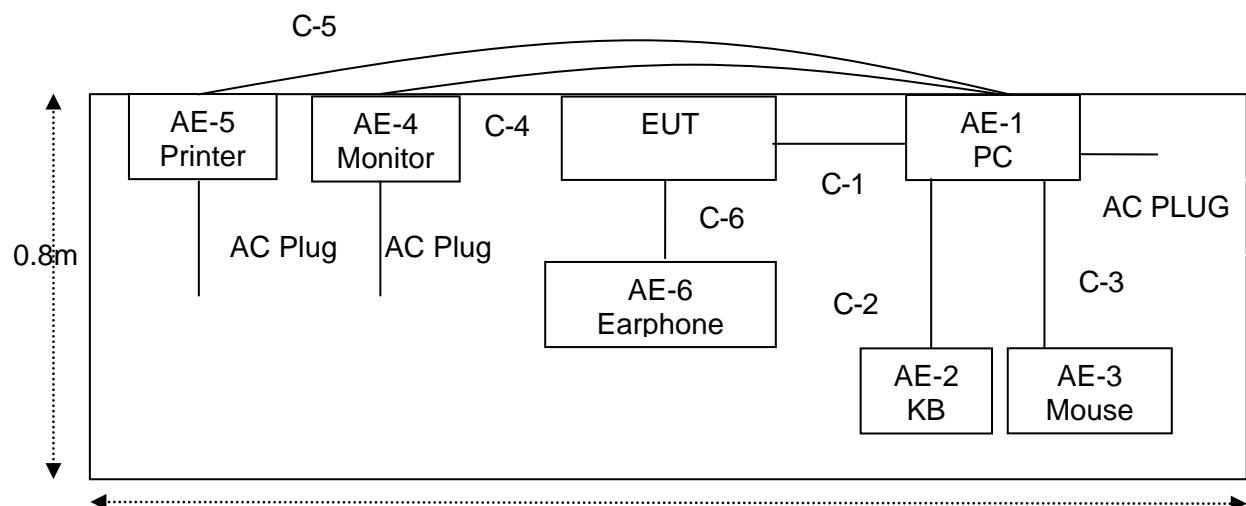
| For Radiated Test | |
|-------------------|-----------------------|
| Final Test Mode | Description |
| Mode 1 | USB Data Transmission |
| Mode 2 | TF card Playing |
| Mode 3 | REC |
| Mode 4 | FM |

Note: Final Test Mode: Through Pre-scan, find the mode 1 is the worst case.

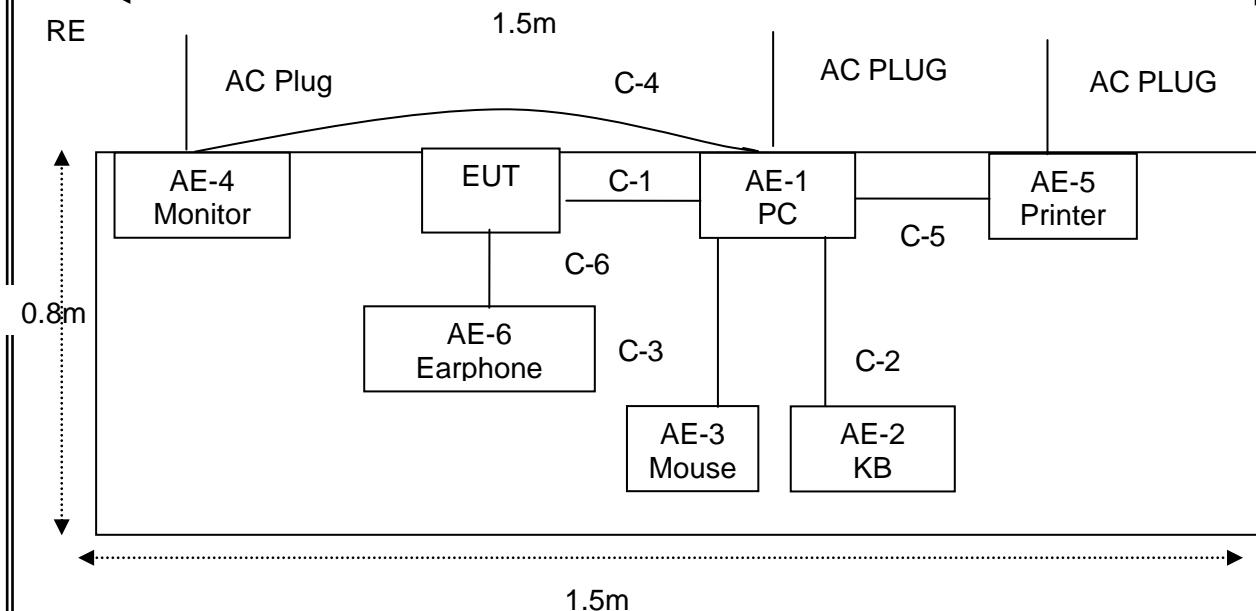
Only the worst case mode is recorded in the report.

2.2 DESCRIPTION OF TEST SETUP

CE



RE



2.3 DESCRIPTION TEST PERIPHERAL AND EUT PERIPHERAL

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 | Brand | Model/Type No. | Series No. | Note |
|------|-----------|-------|----------------|------------|-------------|
| AE-1 | PC | DELL | FT4Y23X | N/A | Peripherals |
| AE-2 | KB | DELL | SK-8185 | N/A | Peripherals |
| AE-3 | Mouse | DELL | MS111-P | N/A | Peripherals |
| AE-4 | Monitor | N/A | N/A | N/A | Peripherals |
| AE-5 | Printer | Canon | L11121E | N/A | Peripherals |
| AE-6 | Earphone | N/A | N/A | N/A | Peripherals |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

| Item | Cable Type | Shielded Type | Ferrite Core | Length | Note |
|------|----------------|---------------|--------------|--------|------|
| C-1 | USB Cable | NO | NO | 1.0m | |
| C-2 | KB Cable | NO | NO | 1.2m | |
| C-3 | Mouse Cable | NO | NO | 1.2m | |
| C-4 | HDMI Cable | YES | YES | 1.0m | |
| C-5 | USB Cable | NO | NO | 1.2m | |
| C-6 | Earphone Cable | NO | NO | 1.2m | |
| | | | | | |
| | | | | | |

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" means "shielded" "with core"; "NO" means "unshielded" "without core".

2.4 MEASUREMENT INSTRUMENTS LIST

Radiation Test equipment

| Item | Kind of Equipment | Manufacturer | Type No. | Serial No. | Last calibration | Calibrated until | Calibration period |
|------|----------------------------|--------------|-------------|----------------|------------------|------------------|--------------------|
| 1 | Spectrum Analyzer | Agilent | E4407B | MY45108040 | 2019.05.13 | 2020.05.12 | 1 year |
| 2 | Test Receiver | R&S | ESPI | 101318 | 2019.05.13 | 2020.05.12 | 1 year |
| 3 | Bilog Antenna | TESEQ | CBL6111D | 31216 | 2019.04.15 | 2020.04.14 | 1 year |
| 4 | 50Ω Coaxial Switch | Anritsu | MP59B | 6200264416 | 2019.05.13 | 2020.05.12 | 1 year |
| 5 | Spectrum Analyzer | ADVANTEST | R3132 | 150900201 | 2019.05.13 | 2020.05.12 | 1 year |
| 6 | Horn Antenna | EM | EM-AH-10180 | 2011071402 | 2019.04.15 | 2020.04.14 | 1 year |
| 7 | Horn Ant | Schwarzbeck | BBHA 9170 | 9170-181 | 2019.05.13 | 2020.05.12 | 1 year |
| 8 | Amplifier | EMC | EMC051835SE | 980246 | 2018.08.05 | 2019.08.04 | 1 year |
| 9 | Loop Antenna | ARA | PLA-1030/B | 1029 | 2019.05.13 | 2020.05.12 | 1 year |
| 10 | Power Meter | DARE | RPR3006W | 15I00041S NO84 | 2018.08.05 | 2019.08.04 | 1 year |
| 11 | Power Sensor | R&S | URV1-Z4 | 0395.1619.05 | 2019.05.13 | 2020.05.12 | 1 year |
| 12 | Test Cable (30MHz-1GHz) | N/A | R-02 | N/A | 2017.04.21 | 2020.04.20 | 3 year |
| 13 | High Test Cable(1G-40 GHz) | N/A | R-03 | N/A | 2017.04.21 | 2020.04.20 | 3 year |
| 14 | High Test Cable(1G-40 GHz) | N/A | R-04 | N/A | 2017.04.21 | 2020.04.20 | 3 year |

AC Conduction Test equipment

| Item | Kind of Equipment | Manufacturer | Type No. | Serial No. | Last calibration | Calibrated until | Calibration period |
|------|-------------------------|--------------|-----------|------------|------------------|------------------|--------------------|
| 1 | Test Receiver | R&S | ESCI | 101160 | 2019.05.13 | 2020.05.12 | 1 year |
| 2 | LISN | R&S | ENV216 | 101313 | 2019.04.15 | 2020.04.14 | 1 year |
| 3 | LISN | SCHWARZBECK | NNLK 8129 | 8129245 | 2019.05.13 | 2020.05.12 | 1 year |
| 4 | 50Ω Coaxial Switch | ANRITSU CORP | MP59B | 6200983704 | 2019.05.13 | 2020.05.12 | 1 year |
| 5 | Test Cable (9KHz-30MHz) | N/A | C01 | N/A | 2017.04.21 | 2020.04.20 | 3 year |
| 6 | Test Cable (9KHz-30MHz) | N/A | C02 | N/A | 2017.04.21 | 2020.04.20 | 3 year |
| 7 | Test Cable (9KHz-30MHz) | N/A | C03 | N/A | 2017.04.21 | 2020.04.20 | 3 year |

Note: Each piece of equipment is scheduled for calibration once a year except the Test Cable which is scheduled for calibration every 3 years.

3. EMC EMISSION TEST

3.1 CONDUCTED EMISSION MEASUREMENT

3.1.1 POWER LINE CONDUCTED EMISSION (Frequency Range 150KHz-30MHz)

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

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.

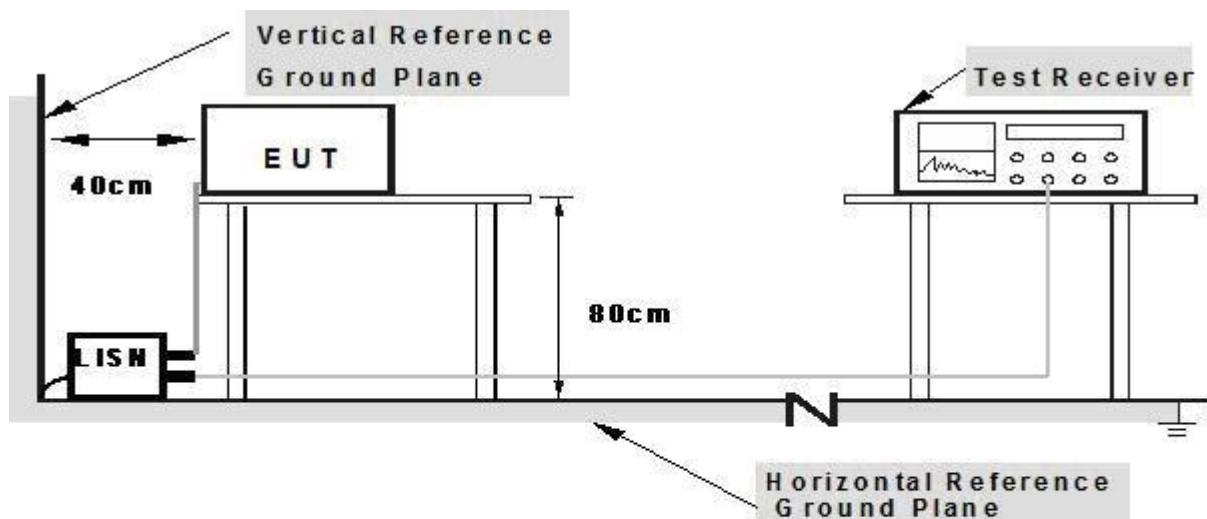
The following table is the setting of the receiver

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

3.1.2 TEST PROCEDURE

- a. The EUT was placed 0.8 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.
- 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 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

3.1.4 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.

3.1.5 TEST RESULTS

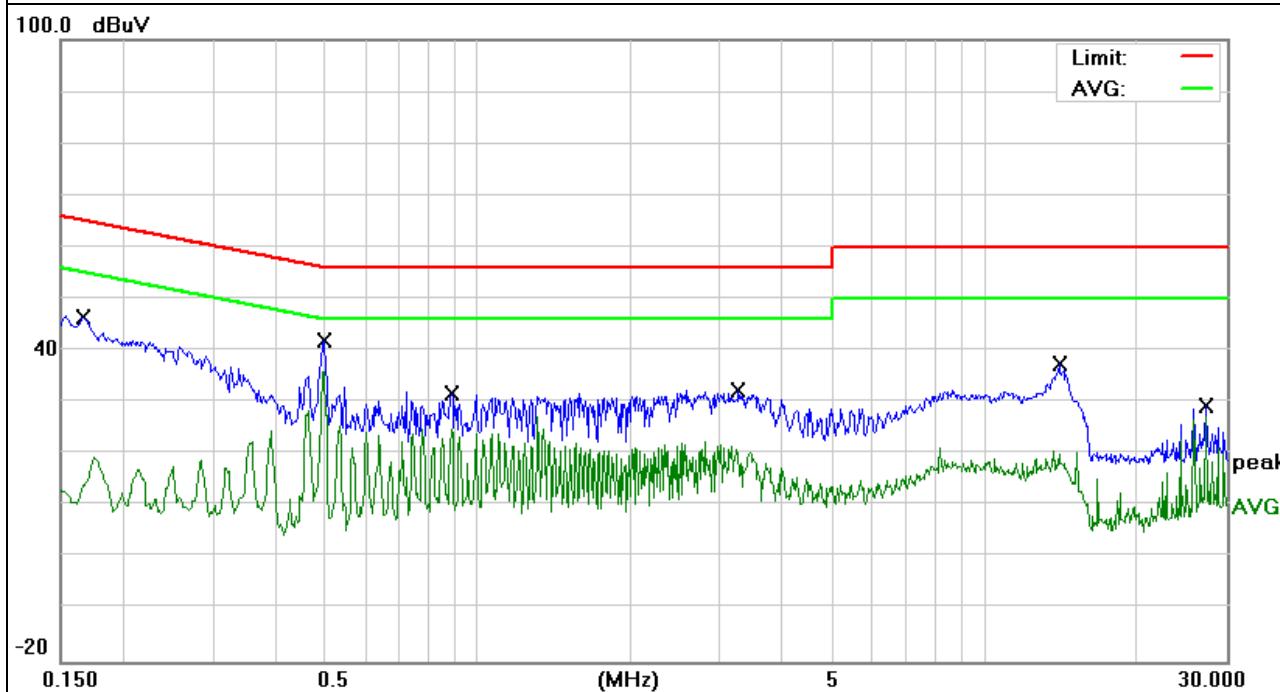
| | | | |
|---------------|---------------------------|--------------------|------------|
| EUT: | Smart Phone | Model Name. : | V1 |
| Temperature: | 26 °C | Relative Humidity: | 54% |
| Pressure: | 1010hPa | Test Date: | 2019-06-19 |
| Test Mode: | Mode 1 | Phase : | L |
| Test Voltage: | DC 5V from PC AC120V/60Hz | | |

| Frequency (MHz) | Reading Level (dB μ V) | Correct Factor (dB) | Measure-ment (dB μ V) | Limits (dB μ V) | Margin (dB) | Remark |
|--------------------|-------------------------------|------------------------|------------------------------|------------------------|----------------|--------|
| | | | | | | Remark |
| 0.1660 | 36.57 | 9.76 | 46.33 | 65.15 | -18.82 | QP |
| 0.1660 | 20.26 | 9.76 | 30.02 | 55.15 | -25.13 | AVG |
| 0.4979 | 32.26 | 9.74 | 42.00 | 56.03 | -14.03 | QP |
| 0.4979 | 22.40 | 9.74 | 32.14 | 46.03 | -13.89 | AVG |
| 0.8860 | 21.96 | 9.74 | 31.70 | 56.00 | -24.30 | QP |
| 0.8860 | 12.80 | 9.74 | 22.54 | 46.00 | -23.46 | AVG |
| 3.2659 | 22.62 | 9.84 | 32.46 | 56.00 | -23.54 | QP |
| 3.2659 | 16.18 | 9.84 | 26.02 | 46.00 | -19.98 | AVG |
| 14.0259 | 27.41 | 10.09 | 37.50 | 60.00 | -22.50 | QP |
| 14.0259 | 14.03 | 10.09 | 24.12 | 50.00 | -25.88 | AVG |
| 27.3780 | 18.78 | 10.58 | 29.36 | 60.00 | -30.64 | QP |
| 27.3780 | 9.53 | 10.58 | 20.11 | 50.00 | -29.89 | AVG |

Remark:

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

2. Factor = Insertion Loss + Cable Loss.

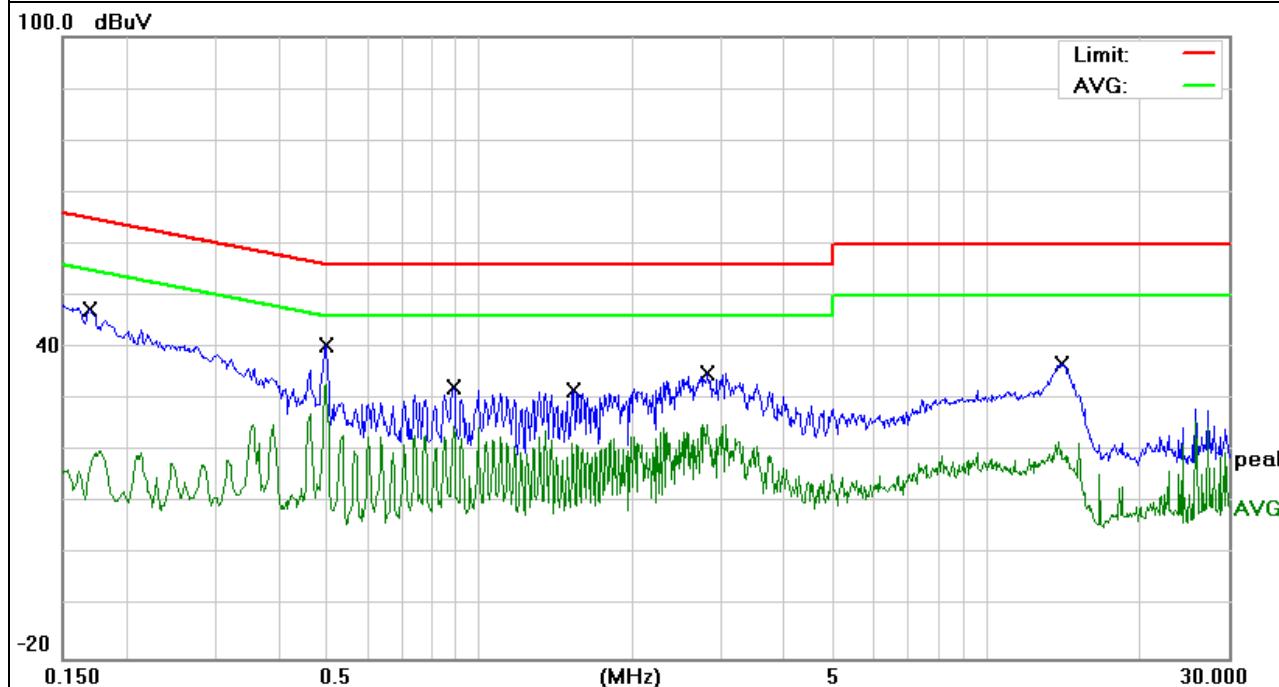


| | | | |
|---------------|---------------------------|--------------------|------------|
| EUT: | Smart Phone | Model Name.: | V1 |
| Temperature: | 26 °C | Relative Humidity: | 54% |
| Pressure: | 1010hPa | Test Date: | 2019-06-19 |
| Test Mode: | Mode 1 | Phase : | N |
| Test Voltage: | DC 5V from PC AC120V/60Hz | | |

| Frequency | Reading Level | Correct Factor | Measure-ment | Limits | Margin | Remark |
|-----------|---------------|----------------|--------------|--------------|--------|--------|
| (MHz) | (dB μ V) | (dB) | (dB μ V) | (dB μ V) | (dB) | |
| 0.1700 | 37.56 | 9.73 | 47.29 | 64.96 | -17.67 | QP |
| 0.1700 | 23.63 | 9.73 | 33.36 | 54.96 | -21.60 | AVG |
| 0.4979 | 30.66 | 9.75 | 40.41 | 56.03 | -15.62 | QP |
| 0.4979 | 20.66 | 9.75 | 30.41 | 46.03 | -15.62 | AVG |
| 0.8860 | 22.68 | 9.75 | 32.43 | 56.00 | -23.57 | QP |
| 0.8860 | 15.40 | 9.75 | 25.15 | 46.00 | -20.85 | AVG |
| 1.5300 | 22.03 | 9.78 | 31.81 | 56.00 | -24.19 | QP |
| 1.5300 | 12.56 | 9.78 | 22.34 | 46.00 | -23.66 | AVG |
| 2.8179 | 25.34 | 9.86 | 35.20 | 56.00 | -20.80 | QP |
| 2.8179 | 13.83 | 9.86 | 23.69 | 46.00 | -22.31 | AVG |
| 13.9899 | 26.81 | 10.09 | 36.90 | 60.00 | -23.10 | QP |
| 13.9899 | 15.49 | 10.09 | 25.58 | 50.00 | -24.42 | AVG |

Remark:

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

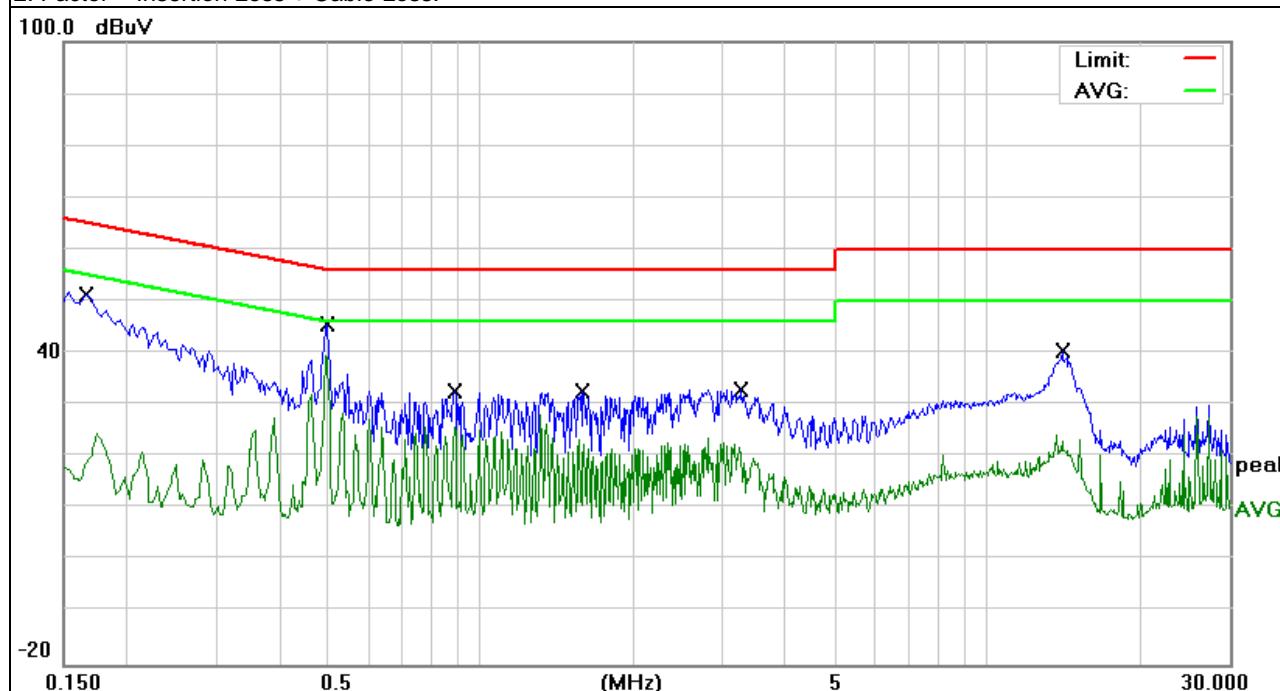


| | | | |
|---------------|---------------------------|--------------------|------------|
| EUT: | Smart Phone | Model Name.: | V1 |
| Temperature: | 26 °C | Relative Humidity: | 54% |
| Pressure: | 1010hPa | Test Date: | 2019-06-19 |
| Test Mode: | Mode 1 | Phase : | L |
| Test Voltage: | DC 5V from PC AC240V/60Hz | | |

| Frequency | Reading Level | Correct Factor | Measure-ment | Limits | Margin | Remark |
|-----------|---------------|----------------|--------------|--------------|--------|--------|
| (MHz) | (dB μ V) | (dB) | (dB μ V) | (dB μ V) | (dB) | |
| 0.1660 | 41.57 | 9.76 | 51.33 | 65.15 | -13.82 | QP |
| 0.1660 | 28.57 | 9.76 | 38.33 | 55.15 | -16.82 | AVG |
| 0.4980 | 35.76 | 9.74 | 45.50 | 56.03 | -10.53 | QP |
| 0.4980 | 25.38 | 9.74 | 35.12 | 46.03 | -10.91 | AVG |
| 0.8860 | 22.96 | 9.74 | 32.70 | 56.00 | -23.30 | QP |
| 0.8860 | 15.71 | 9.74 | 25.45 | 46.00 | -20.55 | AVG |
| 1.5900 | 22.90 | 9.77 | 32.67 | 56.00 | -23.33 | QP |
| 1.5900 | 11.92 | 9.77 | 21.69 | 46.00 | -24.31 | AVG |
| 3.2659 | 23.12 | 9.84 | 32.96 | 56.00 | -23.04 | QP |
| 3.2659 | 10.70 | 9.84 | 20.54 | 46.00 | -25.46 | AVG |
| 14.0259 | 30.41 | 10.09 | 40.50 | 60.00 | -19.50 | QP |
| 14.0259 | 20.02 | 10.09 | 30.11 | 50.00 | -19.89 | AVG |

Remark:

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

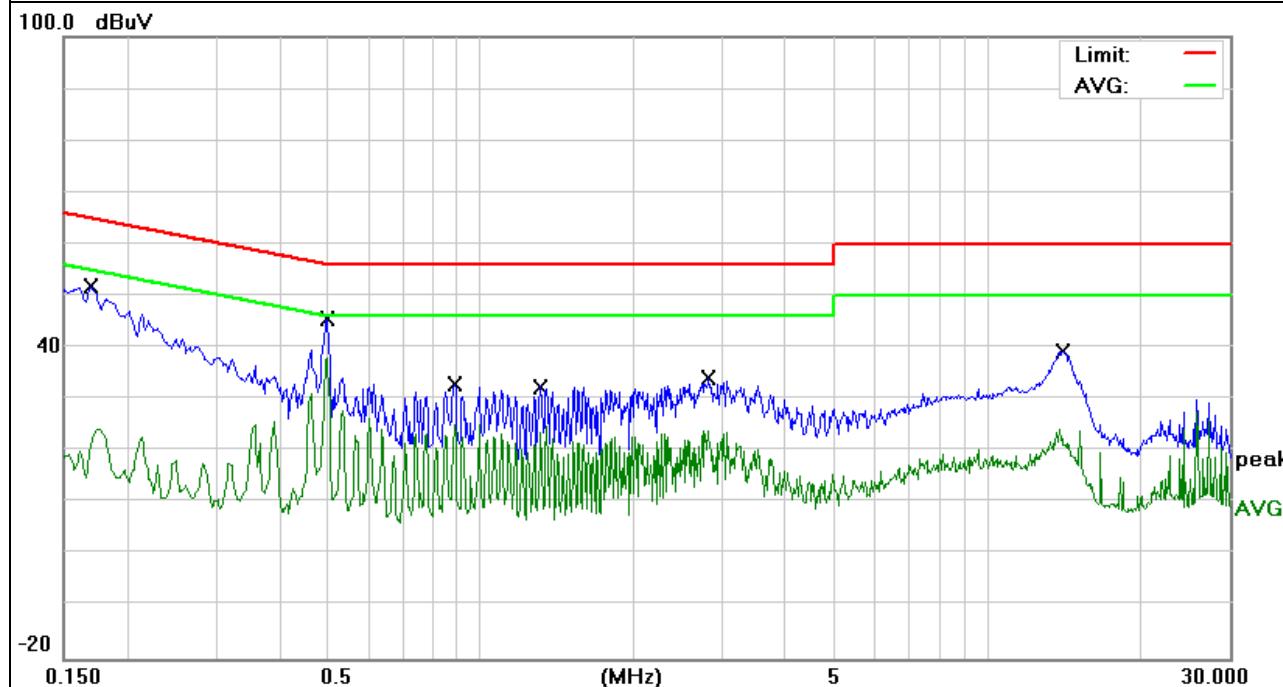


| | | | |
|---------------|---------------------------|--------------------|------------|
| EUT: | Smart Phone | Model Name.: | V1 |
| Temperature: | 26 °C | Relative Humidity: | 54% |
| Pressure: | 1010hPa | Test Date: | 2019-06-19 |
| Test Mode: | Mode 1 | Phase : | N |
| Test Voltage: | DC 5V from PC AC240V/60Hz | | |

| Frequency | Reading Level | Correct Factor | Measure-ment | Limits | Margin | Remark |
|-----------|---------------|----------------|--------------|--------------|--------|--------|
| (MHz) | (dB μ V) | (dB) | (dB μ V) | (dB μ V) | (dB) | |
| 0.1700 | 42.06 | 9.73 | 51.79 | 64.96 | -13.17 | QP |
| 0.1700 | 20.52 | 9.73 | 30.25 | 54.96 | -24.71 | AVG |
| 0.4979 | 35.66 | 9.75 | 45.41 | 56.03 | -10.62 | QP |
| 0.4979 | 22.60 | 9.75 | 32.35 | 46.03 | -13.68 | AVG |
| 0.8860 | 23.18 | 9.75 | 32.93 | 56.00 | -23.07 | QP |
| 0.8860 | 15.91 | 9.75 | 25.66 | 46.00 | -20.34 | AVG |
| 1.3099 | 22.74 | 9.76 | 32.50 | 56.00 | -23.50 | QP |
| 1.3099 | 14.78 | 9.76 | 24.54 | 46.00 | -21.46 | AVG |
| 2.8179 | 24.34 | 9.86 | 34.20 | 56.00 | -21.80 | QP |
| 2.8179 | 13.79 | 9.86 | 23.65 | 46.00 | -22.35 | AVG |
| 13.9899 | 29.31 | 10.09 | 39.40 | 60.00 | -20.60 | QP |
| 13.9899 | 18.03 | 10.09 | 28.12 | 50.00 | -21.88 | AVG |

Remark:

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



3.2 RADIATED EMISSION MEASUREMENT

3.2.1 LIMITS OF RADIATED EMISSION MEASUREMENT

| FREQUENCY (MHz) | Class A (at 10m) | Class B (at 3m) |
|-----------------|------------------|-----------------|
| | dBuV/m | dBuV/m |
| 30 ~ 88 | 39.0 | 40.0 |
| 88 ~ 216 | 43.5 | 43.5 |
| 216 ~ 960 | 46.5 | 46.0 |
| Above 960 | 49.5 | 54.0 |

Notes:

- (1) The limit for radiated test was performed according to as following:
FCC PART 15B /ICES-003.
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m)=20log Emission level (uV/m).

3.2.2 TEST PROCEDURE

Test Arrangement for Radiated Emissions up to 1 GHz

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at an accredited test facility. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna is a broadband antenna, and its height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.

Note: The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for quasi-peak detection (QP) at frequency below 1GHz.

Test Arrangement for Radiated Emissions above 1 GHz.

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at an accredited chamber room. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The height of antenna can be varied from one meter to four meters, the height of adjustment depends on the EUT height and the antenna 3dB beamwidth both, to detect the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.

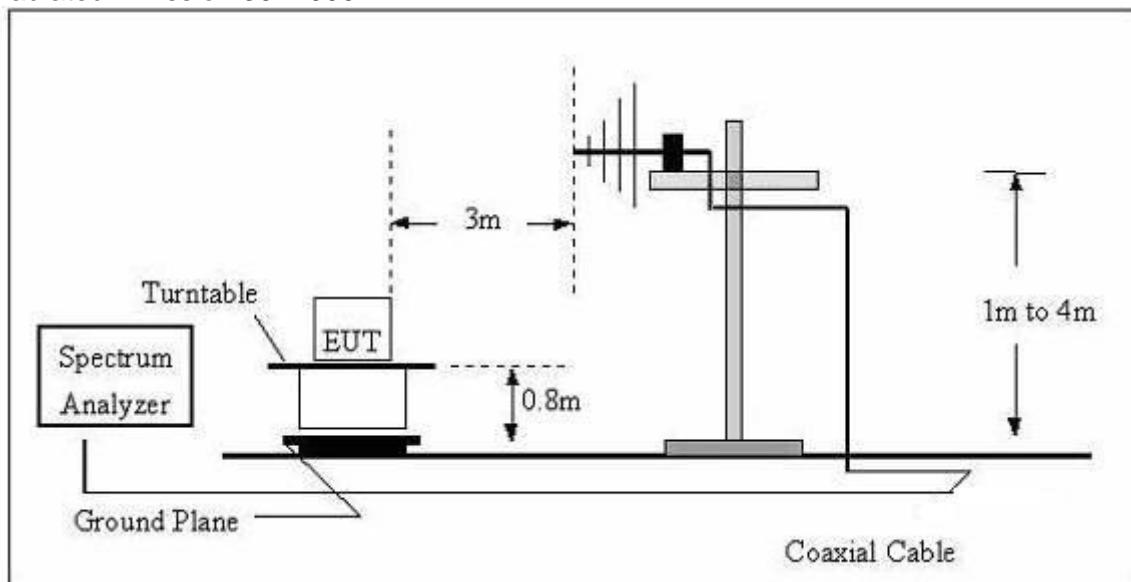
Note: For the hand-held device, the EUT should be measured for all 3 axes and only the worst case is recorded in the report

During the radiated emission test, the Spectrum Analyzer was set with the following configurations:

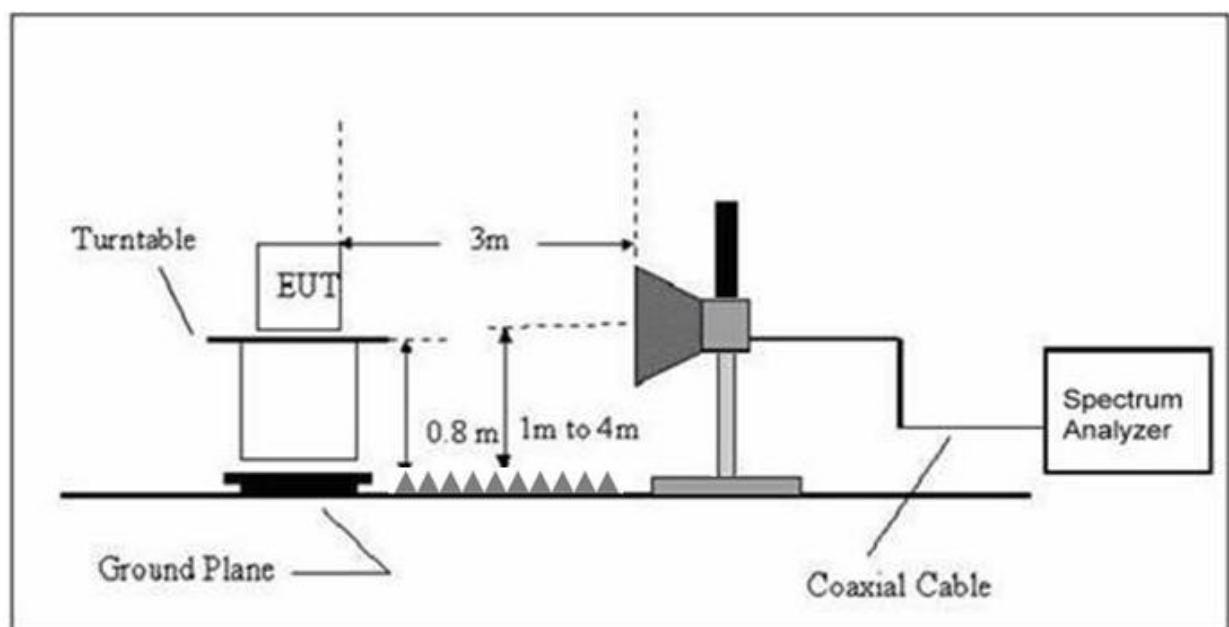
| Frequency Band (MHz) | Function | Resolution bandwidth | Video Bandwidth |
|----------------------|----------|----------------------|-----------------|
| 30 to 1000 | QP | 120 kHz | 300 kHz |
| Above 1000 | Peak | 1 MHz | 1 MHz |
| | Avg | 1 MHz | 10 Hz |

3.2.3 TEST SETUP

For Radiated Emission 30~1000MHz



(B) Radiated Emission Test Set-Up Frequency Above 1GHz



3.2.4 TEST RESULTS

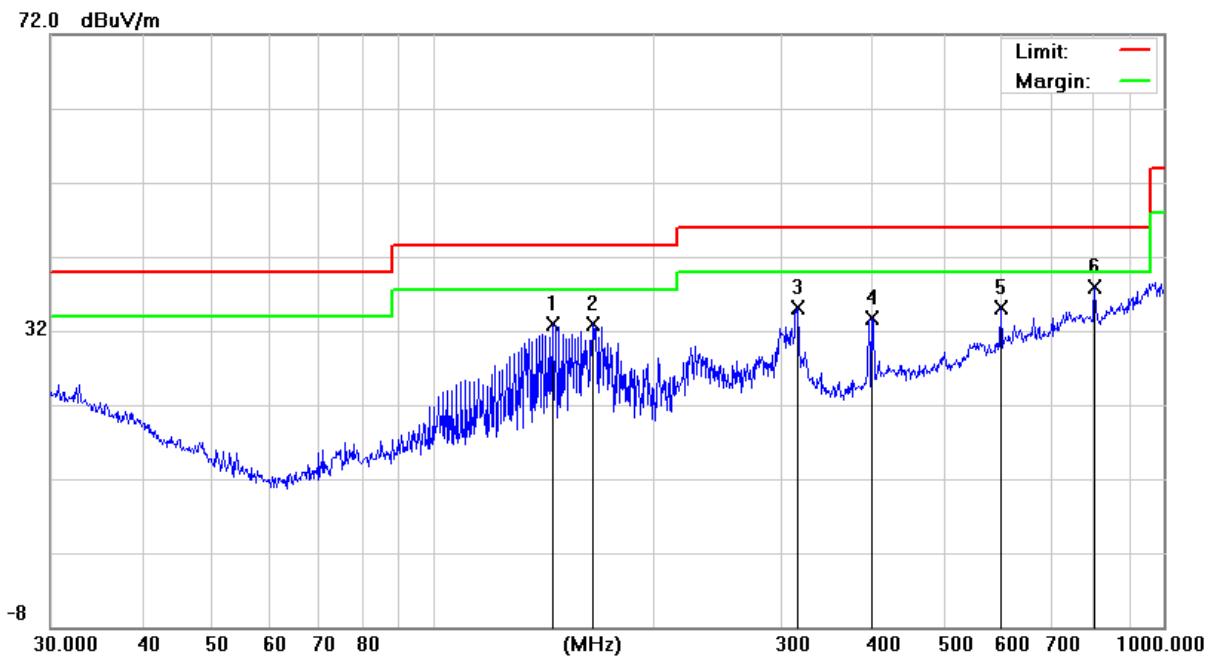
TEST RESULTS (30~1000 MHz)

| | | | |
|--------------|---------------------------|--------------------|------------|
| EUT: | Smart Phone | Model Name: | V1 |
| Temperature: | 24 °C | Relative Humidity: | 54% |
| Pressure: | 1010 hPa | Test Date : | 2019-06-19 |
| Test Mode : | Mode 1 | Polarization : | Horizontal |
| Test Power : | DC 5V from PC AC120V/60Hz | | |

| Polar (H/V) | Frequency | Meter Reading | Factor | Emission Level | Limits | Margin | Remark |
|----------------|-----------|------------------|--------|-------------------|----------|--------|--------|
| | (MHz) | (dBuV) | (dB) | (dBuV/m) | (dBuV/m) | (dB) | |
| H | 145.8609 | 19.85 | 13.07 | 32.92 | 43.50 | -10.58 | QP |
| H | 165.4866 | 21.43 | 11.41 | 32.84 | 43.50 | -10.66 | QP |
| H | 315.4806 | 18.62 | 16.43 | 35.05 | 46.00 | -10.95 | QP |
| H | 399.0300 | 14.09 | 19.57 | 33.66 | 46.00 | -12.34 | QP |
| H | 599.3211 | 11.35 | 23.83 | 35.18 | 46.00 | -10.82 | QP |
| H | 804.6028 | 10.66 | 27.33 | 37.99 | 46.00 | -8.01 | QP |

Remark:

Factor = Antenna Factor + Cable Loss - Amplifier.

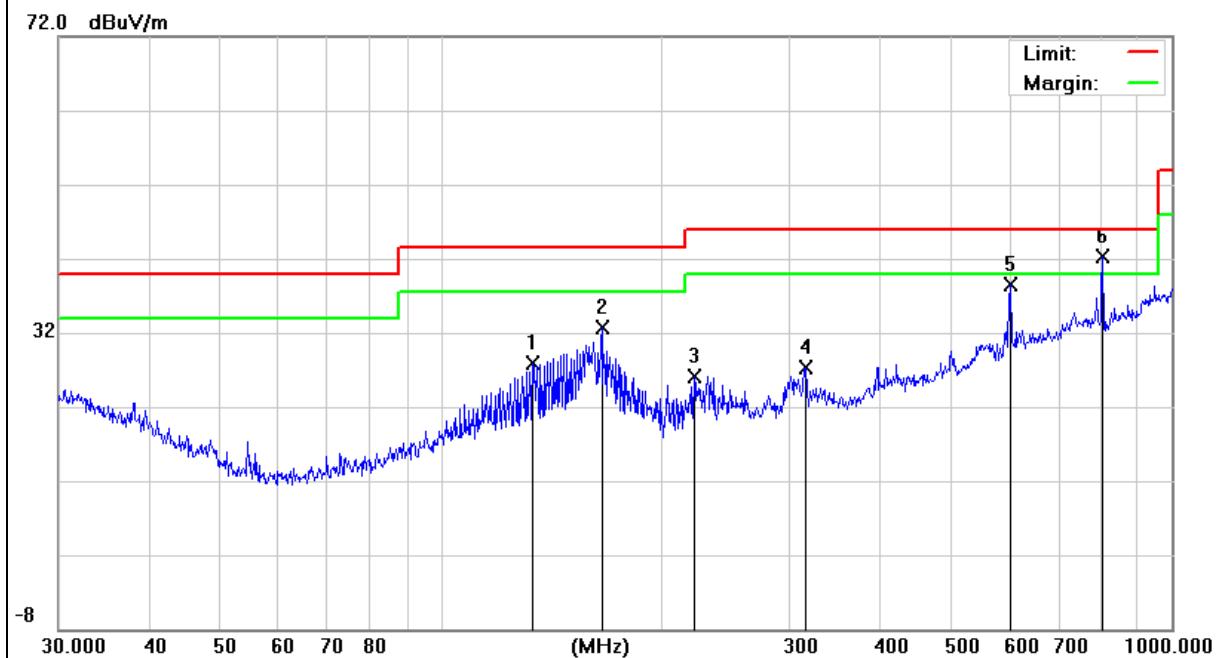


| | | | |
|--------------|---------------------------|--------------------|------------|
| EUT: | Smart Phone | Model Name : | V1 |
| Temperature: | 24 °C | Relative Humidity: | 54% |
| Pressure: | 1010 hPa | Test Date : | 2019-06-19 |
| Test Mode : | Mode 1 | Polarization : | Vertical |
| Test Power : | DC 5V from PC AC120V/60Hz | | |

| Polar (H/V) | Frequency | Meter Reading | Factor | Emission Level | Limits | Margin | Remark |
|----------------|-----------|------------------|--------|-------------------|----------|--------|--------|
| | (MHz) | (dBuV) | (dB) | (dBuV/m) | (dBuV/m) | (dB) | |
| V | 133.6186 | 14.59 | 13.40 | 27.99 | 43.50 | -15.51 | QP |
| V | 166.0680 | 21.38 | 11.40 | 32.78 | 43.50 | -10.72 | QP |
| V | 222.1698 | 13.99 | 12.04 | 26.03 | 46.00 | -19.97 | QP |
| V | 315.4806 | 10.97 | 16.43 | 27.40 | 46.00 | -18.60 | QP |
| V | 601.4265 | 14.59 | 23.95 | 38.54 | 46.00 | -7.46 | QP |
| V | 804.6028 | 14.91 | 27.33 | 42.24 | 46.00 | -3.76 | QP |

Remark:

Factor = Antenna Factor + Cable Loss - Amplifier.



3.2.5 TEST RESULTS(1000~26500MHz)

| | | | |
|--------------|---------------------------|--------------------|------------|
| EUT: | Smart Phone | Model Name : | V1 |
| Temperature: | 24 °C | Relative Humidity: | 54% |
| Pressure: | 1010 hPa | Test Date : | 2019-06-19 |
| Test Mode : | Mode 1 | | |
| Test Power : | DC 5V from PC AC120V/60Hz | | |

All the modulation modes have been tested, and the worst result was report as below:

| Polar (H/V) | Frequency | Reading | Correc | Result | Limit | Over Limit | Remar |
|-------------|-----------|----------|--------|----------|----------|------------|-------|
| | (MHz) | (dBuV/m) | dB/m | (dBuV/m) | (dBuV/m) | (dB) | |
| V | 1085 | 45.23 | -10.48 | 34.75 | 74.00 | -39.25 | peak |
| V | 1085 | 36.14 | -10.48 | 25.66 | 54.00 | -28.34 | AVG |
| V | 1850 | 44.48 | -6.83 | 37.65 | 74.00 | -36.35 | peak |
| V | 1850 | 36.19 | -6.83 | 29.36 | 54.00 | -24.64 | AVG |
| V | 2955 | 41.51 | -2.45 | 39.06 | 74.00 | -34.94 | peak |
| V | 2955 | 30.90 | -2.45 | 28.45 | 54.00 | -25.55 | AVG |
| V | 8395 | -7.03 | 53.24 | 46.21 | 74.00 | -27.79 | peak |
| V | 8395 | -19.88 | 53.24 | 33.36 | 54.00 | -20.64 | AVG |
| V | 13537.5 | -9.47 | 60.71 | 51.24 | 74.00 | -22.76 | peak |
| V | 13537.5 | -20.61 | 60.71 | 40.10 | 54.00 | -13.90 | AVG |
| V | 15620 | -9.94 | 60.50 | 50.56 | 74.00 | -23.44 | peak |
| V | 15620 | -24.98 | 60.50 | 35.52 | 54.00 | -18.48 | AVG |
| H | 1850 | 44.00 | -6.83 | 37.17 | 74.00 | -36.83 | peak |
| H | 1850 | 32.19 | -6.83 | 25.36 | 54.00 | -28.64 | AVG |
| H | 2955 | 41.77 | -2.45 | 39.32 | 74.00 | -34.68 | peak |
| H | 2955 | 26.57 | -2.45 | 24.12 | 54.00 | -29.88 | AVG |
| H | 4782.50 | 35.19 | 6.15 | 41.34 | 74.00 | -32.66 | peak |
| H | 4782.50 | 23.87 | 6.15 | 30.02 | 54.00 | -23.98 | AVG |
| H | 5632.50 | 35.53 | 7.47 | 43.00 | 74.00 | -31.00 | peak |
| H | 5632.50 | 20.98 | 7.47 | 28.45 | 54.00 | -25.55 | AVG |
| H | 8777.50 | -6.71 | 53.45 | 46.74 | 74.00 | -27.26 | peak |
| H | 8777.50 | -24.12 | 53.45 | 29.33 | 54.00 | -24.67 | AVG |
| H | 13410.00 | -9.65 | 60.91 | 51.26 | 74.00 | -22.74 | peak |
| H | 13410.00 | -27.26 | 60.91 | 33.65 | 54.00 | -20.35 | AVG |

Remark:

Absolute Level= ReadingLevel+ Factor, Margin= Absolute Level - Limit

Note: Only the worst results data points are reported in the report.