



FCC Test Report

APPLICANT : ZTE CORPORATION
EQUIPMENT : Smart Watch
BRAND NAME : ZTE
MODEL NAME : ZW20
FCC ID : SRQ-ZW20
STANDARD : 47 CFR Part 15 Subpart B
CLASSIFICATION : Certification

The product was received on Oct. 09, 2019 and testing was completed on Nov. 06, 2019. We, Sporton International (Kunshan) Inc., would like to declare that the tested sample has been evaluated in accordance with the test procedures given in ANSI C63.4-2014 and has been in compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of Sporton International (Kunshan) Inc., the test report shall not be reproduced except in full.

Jason Jia

Reviewed by: Jason Jia / Supervisor

James Huang

Approved by: James Huang / Manager



Sporton International (Kunshan) Inc.

No. 1098, Pengxi North Road, Kunshan Economic Development Zone Jiangsu Province 215300
People's Republic of China



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REVISION HISTORY

| REPORT NO. | VERSION | DESCRIPTION | ISSUED DATE |
|------------|---------|-------------------------|---------------|
| FC900913 | Rev. 01 | Initial issue of report | Nov. 28, 2019 |
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SUMMARY OF TEST RESULT

| Report Section | FCC Rule | Description | Limit | Result | Remark |
|----------------|----------|-----------------------|-----------------|--------|---|
| 3.1 | 15.107 | AC Conducted Emission | < 15.107 limits | PASS | Under limit 4.94 dB at 0.486 MHz |
| 3.2 | 15.109 | Radiated Emission | < 15.109 limits | PASS | Under limit 8.33 dB at 54.250 MHz |

Declaration of Conformity:

The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.

Comments and Explanations:

The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.



1. General Description

1.1. Applicant

ZTE CORPORATION

ZTE Plaza, Keji Road South, Hi-Tech, Industrial Park, Nanshan District, Shenzhen, Guangdong, 518057, P.R.China

1.2. Manufacturer

ZTE CORPORATION

ZTE Plaza, Keji Road South, Hi-Tech, Industrial Park, Nanshan District, Shenzhen, Guangdong, 518057, P.R.China

1.3. Product Feature of Equipment Under Test

| Product Feature | |
|--|---|
| Equipment | Smart Watch |
| Brand Name | ZTE |
| Model Name | ZW20 |
| FCC ID | SRQ-ZW20 |
| EUT supports Radios application | LTE/GNSS WLAN 2.4GHz 802.11b/g/n HT20 Bluetooth BR/EDR/LE |
| IMEI Code | Conduction: 868312040006579 Radiation: 868312040003675 |
| HW Version | ZW20HW1.0 |
| SW Version | ZW20V1.0.0B02 |
| EUT Stage | Identical Prototype |

Remark: The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.



1.4. Product Specification of Equipment Under Test

| Standards-related Product Specification | |
|---|---|
| Tx Frequency | LTE Band 13 : 779.5 MHz ~ 784.5 MHz 802.11b/g/n: 2412 MHz ~ 2462 MHz Bluetooth: 2402 MHz ~ 2480 MHz |
| Rx Frequency | LTE Band 13 : 748.5 MHz ~ 753.5 MHz 802.11b/g/n: 2412 MHz ~ 2462 MHz Bluetooth: 2402 MHz ~ 2480 MHz GNSS : 1559 MHz ~ 1610 MHz |
| Antenna Type | WWAN : Coupling type (LDS) Antenna WLAN : Coupling type (LDS) Antenna Bluetooth : Coupling type (LDS) Antenna GNSS: PIFA Antenna |
| Type of Modulation | LTE: QPSK / 16QAM 802.11b : DSSS (DBPSK / DQPSK / CCK) 802.11g/n : OFDM (BPSK / QPSK/ 16QAM) Bluetooth LE : GFSK Bluetooth (1Mbps) : GFSK Bluetooth (2Mbps) : $\pi/4$ -DQPSK Bluetooth (3Mbps) : 8-DPSK GNSS : BPSK |

Note: GNSS Rx = GPS

1.5. Modification of EUT

No modifications are made to the EUT during all test items.



1.6. Test Location

Sporton International (Kunshan) Inc. is accredited to ISO/IEC 17025:2017 by American Association for Laboratory Accreditation with Certificate Number 5145.02.

| | | | |
|---------------------------|--|----------------------------|---------------------------------------|
| Test Firm | Sporton International (Kunshan) Inc. | | |
| Test Site Location | No. 1098, Pengxi North Road, Kunshan Economic Development Zone Jiangsu Province 215300 People's Republic of China TEL : +86-512-57900158 FAX : +86-512-57900958 | | |
| Test Site No. | Sporton Site No. | FCC Designation No. | FCC Test Firm Registration No. |
| | CO01-KS 03CH04-KS | CN1257 | 314309 |

1.7. Applicable Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- ♦ 47 CFR Part 15 Subpart B
- ♦ ANSI C63.4-2014

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



2. Test Configuration of Equipment Under Test

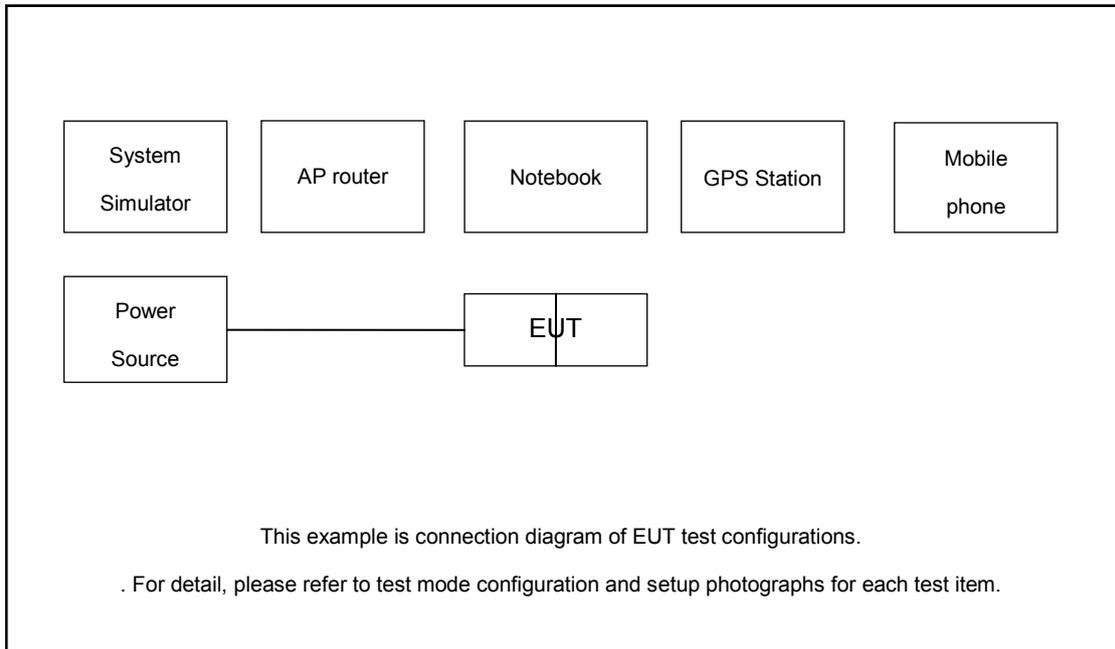
2.1. Test Mode

The EUT has been associated with peripherals pursuant to ANSI C63.4-2014 and configuration operated in a manner tended to maximize its emission characteristics in a typical application.

Frequency range investigated: conduction emission (150 kHz to 30 MHz), radiation emission (30MHz to the 5th harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower).

| Test Items | Function Type |
|--|---|
| AC Conducted Emission | Mode 1: LTE Band 13 Rx(Low) + BT Idle + GNSS Rx + WLAN Idle(2.4G) + Power Cable1(Charging from Adapter1) |
| | Mode 2: LTE Band 13 Rx(High) + BT Idle + GNSS Rx + WLAN Idle(2.4G) + Power Cable2(Charging from Adapter2) |
| Radiated Emissions | Mode 1: LTE Band 13 Rx(Low) + BT Idle + GNSS Rx + WLAN Idle(2.4G) + Power Cable1(Charging from Adapter1) |
| | Mode 2: LTE Band 13 Rx(High) + BT Idle + GNSS Rx + WLAN Idle(2.4G) + Power Cable2(Charging from Adapter2) |
| Remark: <ol style="list-style-type: none"> 1. The worst case of AC is mode 1; only the test data of this mode is reported. 2. The worst case of RE is mode 2; only the test data of this mode is reported. 3. Pre-scanned Low/Middle/High channel for LTE Band 13, the worst channel was recorded in this report | |

2.2.Connection Diagram of Test System





2.3. Support Unit used in test configuration and system

| Item | Equipment | Trade Name | Model Name | FCC ID | Data Cable | Power Cord |
|------|-------------------------|------------|---------------|------------|------------|---|
| 1. | LTE Base Station | Anritsu | MT8820C | N/A | N/A | Unshielded,1.8m |
| 2. | Notebook | Lenovo | QDS-BRCM1050I | N/A | N/A | shielded cable DC O/P 1.8m , Unshielded AC I/P cable 1.8m |
| 3. | WLAN AP | D-link | DIR-655 | KA21R655B1 | N/A | Unshielded,1.8m |
| 4. | Mobile Phone | MOTO | N/A | N/A | N/A | N/A |
| 5. | Vector Signal Generator | R&S | SMBV100A | 258305 | N/A | N/A |

2.4. EUT Operation Test Setup

The EUT was in LTE idle mode during the testing. The EUT was synchronized to the BCCH, and is in continuous receiving mode by setting system simulator’s paging reorganization.

At the same time, the EUT was attached to the Mobile phone via Bluetooth function or WLAN AP, and the following programs installed in the EUT were programmed during the test.

1. Turn on GNSS function to make the EUT receive continuous signals from GNSS station.



3. Test Result

3.1. Test of AC Conducted Emission Measurement

3.1.1 Limits of AC Conducted Emission

For equipment that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the following table.

<Class B Limit>

| Frequency of emission (MHz) | Conducted limit (dBuV) | |
|--------------------------------|------------------------|-----------|
| | Quasi-peak | Average |
| 0.15-0.5 | 66 to 56* | 56 to 46* |
| 0.5-5 | 56 | 46 |
| 5-30 | 60 | 50 |

*Decreases with the logarithm of the frequency.

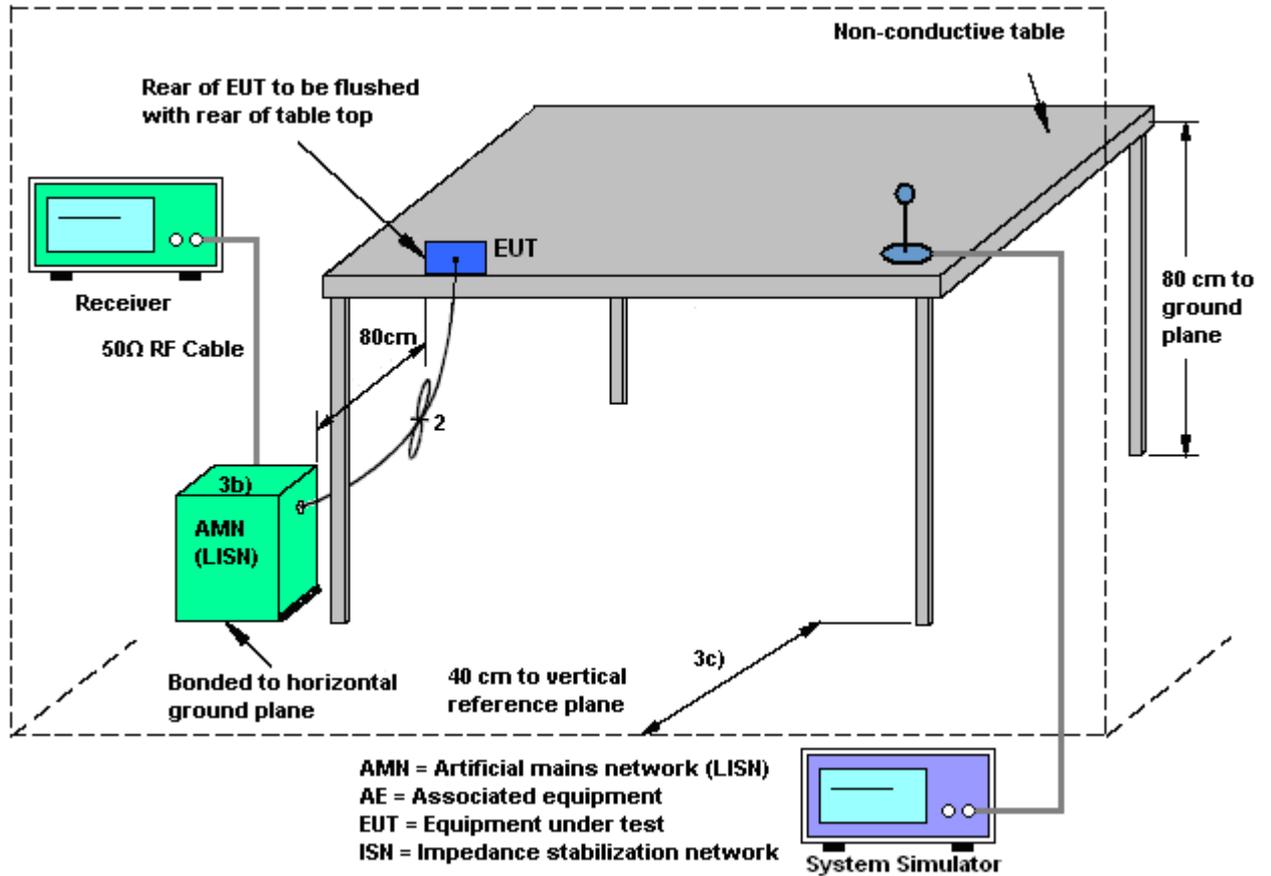
3.1.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

3.1.3 Test Procedure

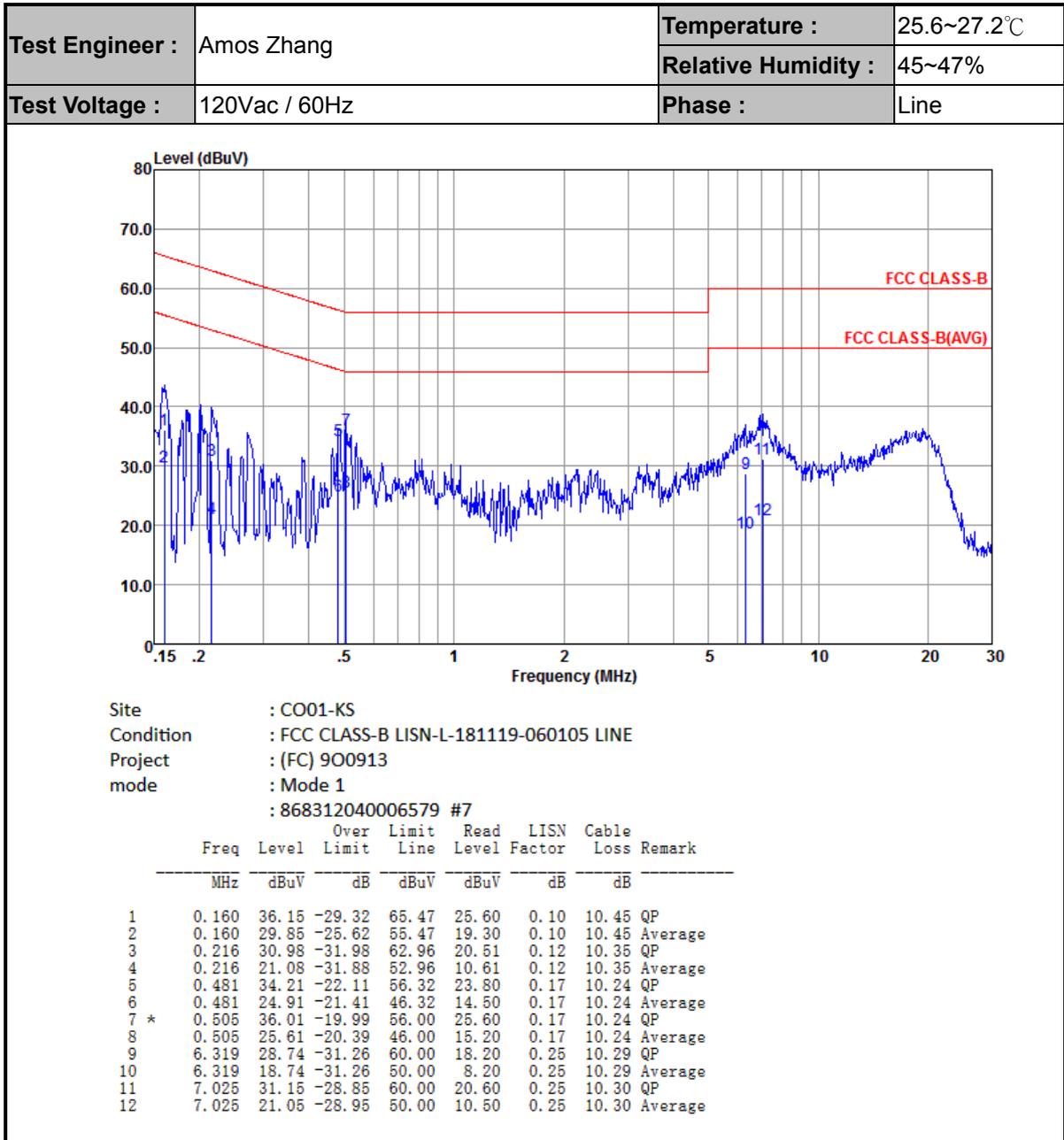
1. The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least 80 centimeters from any other grounded conducting surface.
2. Connect EUT to the power mains through a line impedance stabilization network (LISN).
3. All the support units are connecting to the other LISN.
4. The LISN provides 50 ohm coupling impedance for the measuring instrument.
5. The FCC states that a 50 ohm, 50 microhenry LISN should be used.
6. Both sides of AC line were checked for maximum conducted interference.
7. The frequency range from 150 kHz to 30 MHz was searched.
8. Set the test-receiver system to Peak Detect Function and specified bandwidth (IF Bandwidth = 9kHz) with Maximum Hold Mode. Then measurement is also conducted by Average Detector and Quasi-Peak Detector Function respectively.

3.1.4 Test Setup



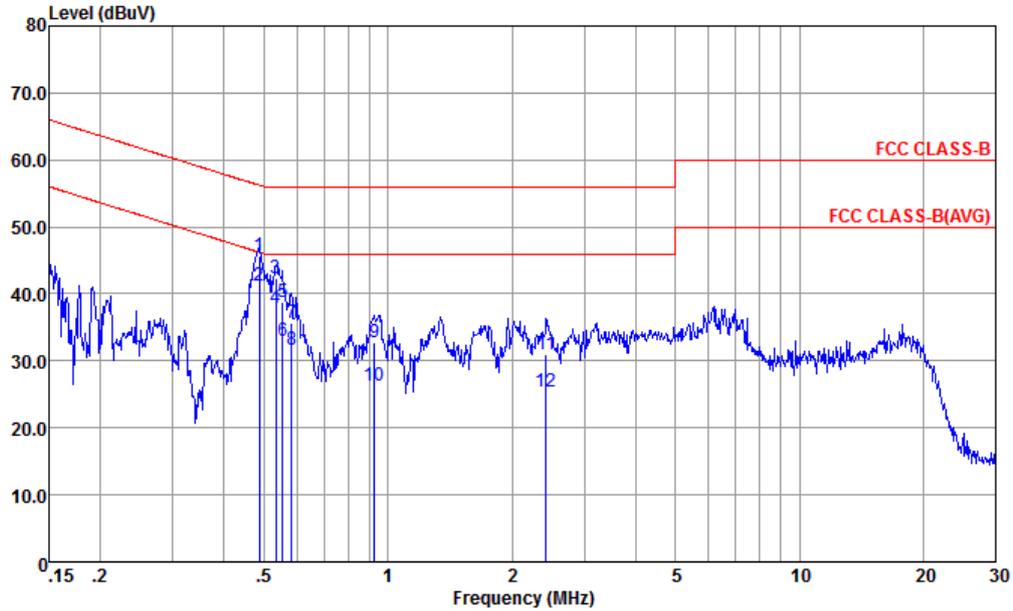


3.1.5 Test Result of AC Conducted Emission





| | | | |
|-----------------|---------------|---------------------|-------------|
| Test Engineer : | Amos Zhang | Temperature : | 25.6~27.2°C |
| | | Relative Humidity : | 45~47% |
| Test Voltage : | 120Vac / 60Hz | Phase : | Neutral |



Site : CO01-KS
 Condition : FCC CLASS-B LISN-N-181119-060105 NEUTRAL
 Project : (FC) 900913
 mode : Mode 1
 : 868312040006579 #7

| | Freq | Level | Over | Limit | Read | LISN | Cable | Remark |
|-----|-------|-------|--------|-------|-------|--------|-------|---------|
| | MHz | dBuV | Limit | Line | Level | Factor | Loss | |
| | | | dB | dBuV | dBuV | dB | dB | |
| 1 | 0.486 | 45.59 | -10.64 | 56.23 | 35.20 | 0.15 | 10.24 | QP |
| 2 * | 0.486 | 41.29 | -4.94 | 46.23 | 30.90 | 0.15 | 10.24 | Average |
| 3 | 0.535 | 42.28 | -13.72 | 56.00 | 31.89 | 0.15 | 10.24 | QP |
| 4 | 0.535 | 37.88 | -8.12 | 46.00 | 27.49 | 0.15 | 10.24 | Average |
| 5 | 0.555 | 38.68 | -17.32 | 56.00 | 28.29 | 0.15 | 10.24 | QP |
| 6 | 0.555 | 32.88 | -13.12 | 46.00 | 22.49 | 0.15 | 10.24 | Average |
| 7 | 0.582 | 35.58 | -20.42 | 56.00 | 25.20 | 0.14 | 10.24 | QP |
| 8 | 0.582 | 31.58 | -14.42 | 46.00 | 21.20 | 0.14 | 10.24 | Average |
| 9 | 0.928 | 32.67 | -23.33 | 56.00 | 22.30 | 0.13 | 10.24 | QP |
| 10 | 0.928 | 26.27 | -19.73 | 46.00 | 15.90 | 0.13 | 10.24 | Average |
| 11 | 2.422 | 30.89 | -25.11 | 56.00 | 20.50 | 0.16 | 10.23 | QP |
| 12 | 2.422 | 25.49 | -20.51 | 46.00 | 15.10 | 0.16 | 10.23 | Average |

Note:

1. Level(dBμV) = Read Level(dBμV) + LISN Factor(dB) + Cable Loss(dB)
2. Over Limit(dB) = Level(dBμV) – Limit Line(dBμV)



3.2. Test of Radiated Emission Measurement

3.2.1. Limit of Radiated Emission

The emissions from an unintentional radiator shall not exceed the field strength levels specified in the following table:

<Class B Limit>

| Frequency (MHz) | Field Strength (microvolts/meter) | Measurement Distance (meters) |
|-----------------|-----------------------------------|-------------------------------|
| 30 – 88 | 100 | 3 |
| 88 – 216 | 150 | 3 |
| 216 - 960 | 200 | 3 |
| Above 960 | 500 | 3 |

3.2.2. Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

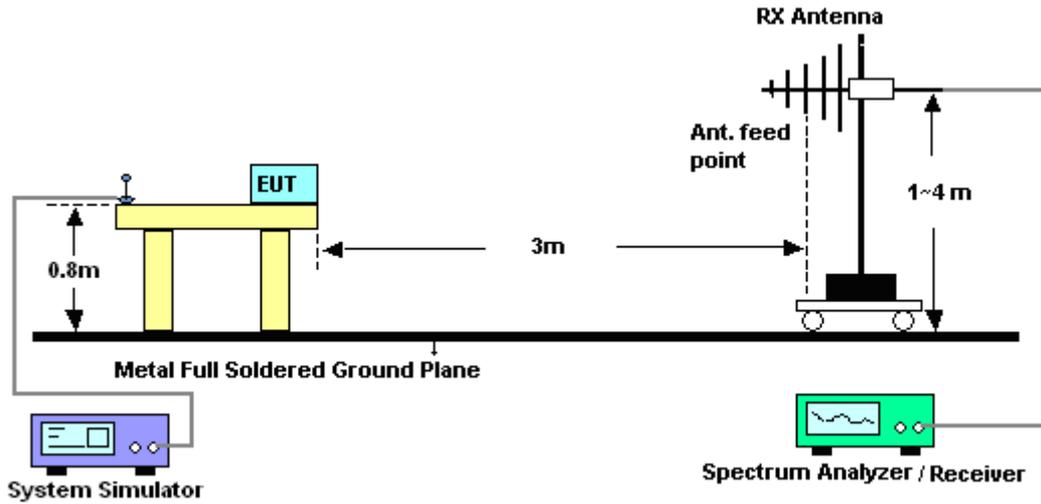


3.2.3. Test Procedures

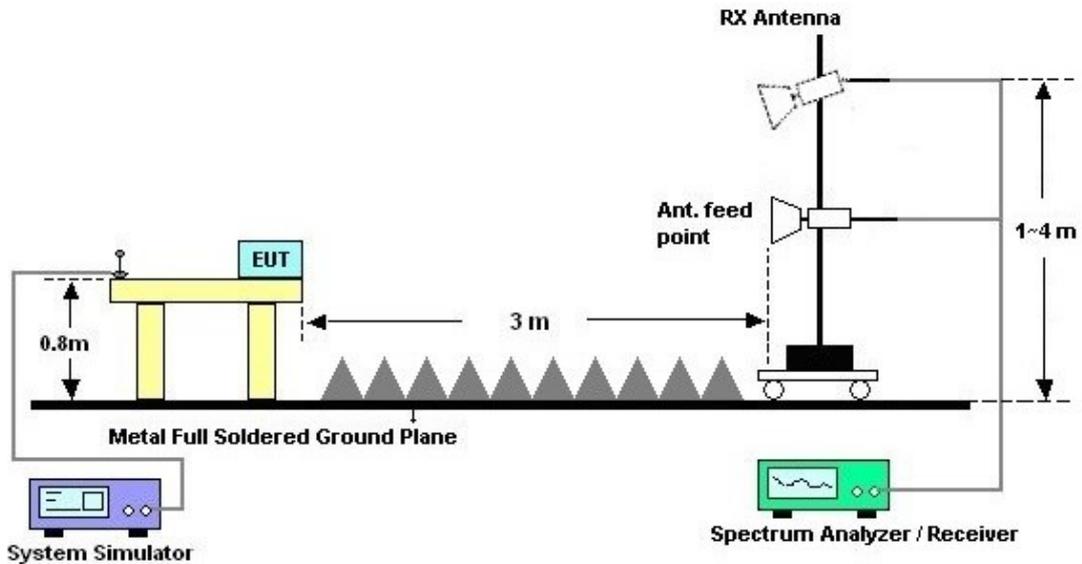
1. The EUT was placed on a turntable with 0.8 meter above ground.
2. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
3. The table was rotated 360 degrees to determine the position of the highest radiation.
4. The antenna is a Bi-Log antenna and its height is adjusted between one to four meters above ground to find the maximum value of the field strength for both horizontal polarization and vertical polarization of the antenna.
5. For each suspected emission, the EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading.
6. Set the test-receiver system to Peak Detect Function and specified bandwidth with Maximum Hold Mode (RBW=120kHz/VBW=300kHz for frequency below 1GHz; RBW=1MHz VBW=3MHz (Peak), RBW=1MHz/VBW=10Hz (Average) for frequency above 1GHz).
7. If the emission level of the EUT in peak mode was 3 dB lower than the limit specified, peak values of EUT will be reported. Otherwise, the emission will be repeated by using the quasi-peak method and reported.
8. Emission level (dB μ V/m) = 20 log Emission level (μ V/m)
9. Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level

3.2.4. Test Setup of Radiated Emission

For radiated emissions from 30MHz to 1GHz



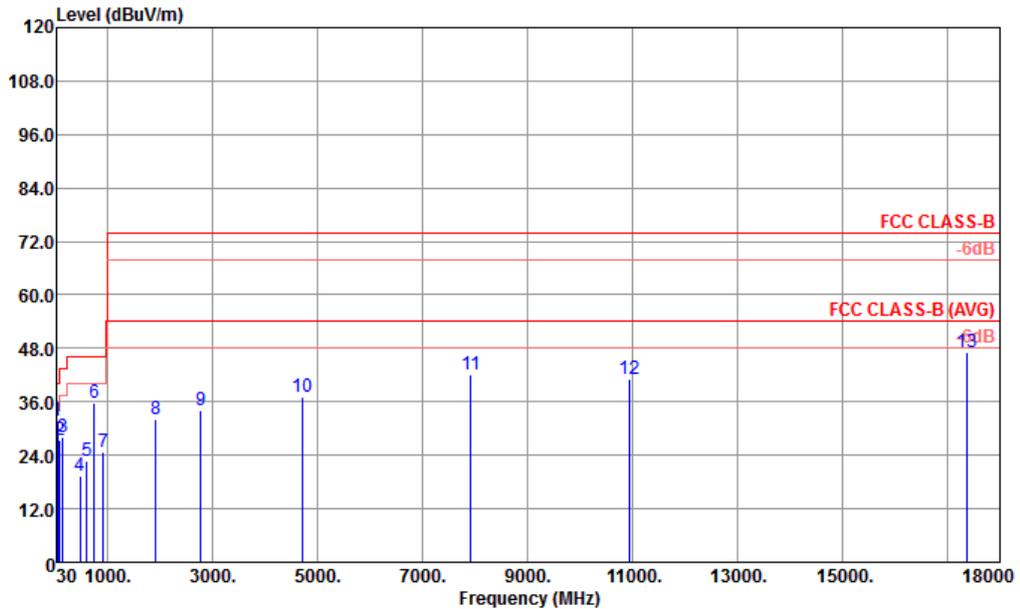
For radiated emissions above 1GHz





3.2.5. Test Result of Radiated Emission

| | | | |
|-----------------|---|---------------------|------------|
| Test Engineer : | Cable Li | Temperature : | 21~22°C |
| | | Relative Humidity : | 41~42% |
| Test Distance : | 3m | Polarization : | Horizontal |
| Remark : | #6 is system simulator signal which can be ignored. | | |

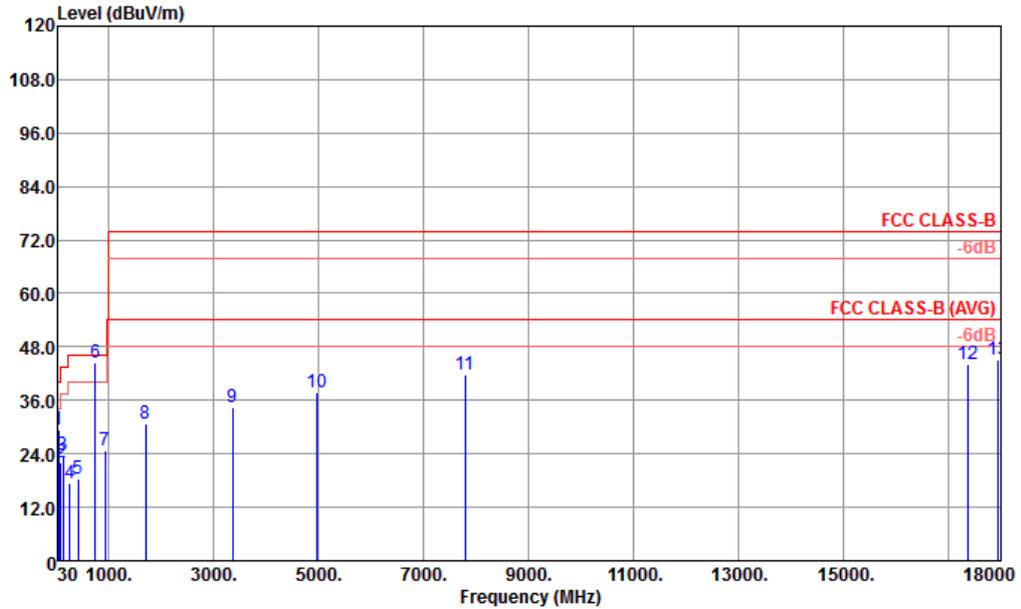


Site : 03CH04-KS
 Condition : FCC CLASS-B 3m LF ANT 6112D SN35406 HORIZONTAL

| | Freq | Level | Over Limit | Limit Line | ReadAntenna Level | Antenna Factor | Cable Loss | Preamp Loss | A/Pos | T/Pos | Remark |
|----|----------|--------|------------|------------|-------------------|----------------|------------|-------------|-------|-------|--------|
| | MHz | dBuV/m | dB | dBuV/m | dBuV | dB/m | dB | dB | cm | deg | |
| 1 | 54.25 | 31.67 | -8.33 | 40.00 | 50.56 | 13.42 | 0.65 | 32.96 | 100 | 0 | Peak |
| 2 | 97.90 | 27.40 | -16.10 | 43.50 | 43.06 | 16.30 | 0.96 | 32.92 | --- | --- | Peak |
| 3 | 148.34 | 28.21 | -15.29 | 43.50 | 43.23 | 16.70 | 1.24 | 32.96 | --- | --- | Peak |
| 4 | 476.20 | 19.48 | -26.52 | 46.00 | 27.46 | 22.97 | 2.29 | 33.24 | --- | --- | Peak |
| 5 | 611.03 | 22.82 | -23.18 | 46.00 | 28.91 | 24.63 | 2.62 | 33.34 | --- | --- | Peak |
| 6 | 753.62 | 35.76 | --- | --- | 40.31 | 25.54 | 3.01 | 33.10 | --- | --- | Peak |
| 7 | 925.31 | 24.74 | -21.26 | 46.00 | 26.62 | 26.73 | 3.40 | 32.01 | --- | --- | Peak |
| 8 | 1928.00 | 32.02 | -41.98 | 74.00 | 66.18 | 24.86 | 5.08 | 64.10 | --- | --- | Peak |
| 9 | 2776.00 | 33.95 | -40.05 | 74.00 | 63.84 | 26.81 | 6.03 | 62.73 | --- | --- | Peak |
| 10 | 4728.00 | 37.13 | -36.87 | 74.00 | 62.07 | 30.66 | 8.20 | 63.80 | --- | --- | Peak |
| 11 | 7928.00 | 42.18 | -31.82 | 74.00 | 59.91 | 36.25 | 10.57 | 64.55 | --- | --- | Peak |
| 12 | 10935.00 | 41.12 | -32.88 | 74.00 | 54.68 | 38.86 | 12.82 | 65.24 | --- | --- | Peak |
| 13 | 17370.00 | 47.29 | -26.71 | 74.00 | 50.49 | 43.41 | 16.10 | 62.71 | --- | --- | Peak |



| | | | |
|-----------------|---|---------------------|----------|
| Test Engineer : | Cable Li | Temperature : | 21~22°C |
| | | Relative Humidity : | 41~42% |
| Test Distance : | 3m | Polarization : | Vertical |
| Remark : | #6 is system simulator signal which can be ignored. | | |



Site : 03CH04-KS
 Condition : FCC CLASS-B 3m LF ANT 6112D SN35406 VERTICAL

| | Freq | Level | Over Limit | Limit Line | ReadAntenna Level | Cable Factor | Preamp Loss Factor | A/Pos | T/Pos | Remark |
|----|----------|--------|------------|------------|-------------------|--------------|--------------------|-------|-------|--------|
| | MHz | dBuV/m | dB | dBuV/m | dBuV | dB/m | dB | dB | cm | deg |
| 1 | 54.25 | 29.52 | -10.48 | 40.00 | 48.41 | 13.42 | 0.65 | 32.96 | 100 | 0 Peak |
| 2 | 92.08 | 22.13 | -21.37 | 43.50 | 39.02 | 15.10 | 0.93 | 32.92 | --- | Peak |
| 3 | 142.52 | 23.69 | -19.81 | 43.50 | 38.33 | 17.10 | 1.21 | 32.95 | --- | Peak |
| 4 | 271.53 | 17.25 | -28.75 | 46.00 | 29.13 | 19.41 | 1.71 | 33.00 | --- | Peak |
| 5 | 419.94 | 18.35 | -27.65 | 46.00 | 27.39 | 21.96 | 2.16 | 33.16 | --- | Peak |
| 6 | 753.62 | 44.60 | | | 49.15 | 25.54 | 3.01 | 33.10 | --- | Peak |
| 7 | 934.04 | 24.89 | -21.11 | 46.00 | 26.56 | 26.81 | 3.42 | 31.90 | --- | Peak |
| 8 | 1704.00 | 30.87 | -43.13 | 74.00 | 65.43 | 24.53 | 4.72 | 63.81 | --- | Peak |
| 9 | 3368.00 | 34.39 | -39.61 | 74.00 | 63.14 | 28.11 | 6.79 | 63.65 | --- | Peak |
| 10 | 4984.00 | 37.80 | -36.20 | 74.00 | 61.74 | 31.31 | 8.44 | 63.69 | --- | Peak |
| 11 | 7800.00 | 41.78 | -32.22 | 74.00 | 59.58 | 36.14 | 10.56 | 64.50 | --- | Peak |
| 12 | 17379.00 | 44.18 | -29.82 | 74.00 | 47.38 | 43.41 | 16.10 | 62.71 | --- | Peak |
| 13 | 17946.00 | 45.24 | -28.76 | 74.00 | 45.34 | 46.53 | 16.43 | 63.06 | --- | Peak |

Note:

- Level(dBμV/m) = Read Level(dBμV) + Antenna Factor(dB/m) + Cable Loss(dB) - Preamp Factor(dB)
- Over Limit(dB) = Level(dBμV/m) – Limit Line(dBμV/m)



4. List of Measuring Equipment

| Instrument | Manufacturer | Model No. | Serial No. | Characteristics | Calibration Date | Test Date | Due Date | Remark |
|-----------------------------------|--------------|---------------|--------------|-------------------------|------------------|---------------|---------------|-----------------------|
| EMI Test Receiver | Keysight | N9038A | MY57290151 | 3Hz~8.5GHz;Max 30dBm | Jul. 18, 2019 | Oct. 31, 2019 | Jul. 17, 2020 | Radiation (03CH04-KS) |
| EXA Spectrum Analyzer | Keysight | N9010A | MY55150244 | 10Hz~44G,MAX 30dB | Apr.16, 2019 | Oct. 31, 2019 | Apr. 15, 2020 | Radiation (03CH04-KS) |
| Bilog Antenna | TeseQ | CBL6111D | 44483 | 30MHz-1GHz | Dec. 28, 2018 | Oct. 31, 2019 | Dec. 27, 2019 | Radiation (03CH04-KS) |
| Horn Antenna | Schwarzbeck | BBHA9120D | 1648 | 1GHz~18GHz | Jan. 27, 2019 | Oct. 31, 2019 | Jan. 26, 2020 | Radiation (03CH04-KS) |
| SHF-EHF Horn | Com-power | AH-840 | 101070 | 18GHz~40GHz | Jan. 05, 2019 | Oct. 31, 2019 | Jan. 04, 2020 | Radiation (03CH04-KS) |
| Amplifier | MITEQ | TTA1840-35-HG | 2014749 | 18~40GHz | Jan. 14, 2019 | Oct. 31, 2019 | Jan. 13, 2020 | Radiation (03CH04-KS) |
| Amplifier | Burgeon | BPA-530 | 102219 | 0.01MHz~3000MHz | Nov. 19, 2018 | Oct. 31, 2019 | Nov. 18, 2019 | Radiation (03CH04-KS) |
| Amplifier | Keysight | 83017A | MY57280106 | 500MHz~26.5GHz | Apr. 15, 2019 | Oct. 31, 2019 | Apr. 14, 2020 | Radiation (03CH04-KS) |
| AC Power Source | Chroma | 61601 | F104090004 | N/A | NCR | Oct. 31, 2019 | NCR | Radiation (03CH04-KS) |
| Turn Table | MF | MF7802 | N/A | 0~360 degree | NCR | Oct. 31, 2019 | NCR | Radiation (03CH04-KS) |
| Antenna Mast | MF | MF7802 | N/A | 1 m~4 m | NCR | Oct. 31, 2019 | NCR | Radiation (03CH04-KS) |
| EMI Receiver | R&S | ESCI7 | 100768 | 9kHz~7GHz; | Apr. 16, 2019 | Nov. 06, 2019 | Apr. 15, 2020 | Conduction (CO01-KS) |
| AC LISN | MessTec | AN3016 | 060103 | 9kHz~30MHz | Oct. 11, 2019 | Nov. 06, 2019 | Oct. 10, 2020 | Conduction (CO01-KS) |
| AC LISN (for auxiliary equipment) | MessTec | AN3016 | 060105 | 9kHz~30MHz | Nov. 19, 2018 | Nov. 06, 2019 | Nov. 18, 2019 | Conduction (CO01-KS) |
| AC Power Source | Chroma | 61602 | ABP000000811 | AC 0V~300V, 45Hz~1000Hz | Oct. 11, 2019 | Nov. 06, 2019 | Oct. 10, 2020 | Conduction (CO01-KS) |

NCR: No Calibration Required



5. Uncertainty of Evaluation

Uncertainty of Conducted Emission Measurement (150 kHz ~ 30 MHz)

| | |
|---|-------|
| Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$) | 2.9dB |
|---|-------|

Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

| | |
|---|-------|
| Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$) | 5.0dB |
|---|-------|

Uncertainty of Radiated Emission Measurement (1000 MHz ~ 18000 MHz)

| | |
|---|-------|
| Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$) | 5.1dB |
|---|-------|