

FCC Test Report

APPLICANT : Gosuncn Technology Group Co., Ltd.
EQUIPMENT : Automatic Database Diagnostic Monitor
(LTE OBD II Dongle)
BRAND NAME : GOSUNCN
MODEL NAME : GD201
FCC ID : 2APNR-GD201
STANDARD : 47 CFR Part 15 Subpart B
CLASSIFICATION : Certification
TEST DATE(S) : Aug. 02, 2021 ~ Aug. 12, 2021

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.



Reviewed by: Derreck Chen / Supervisor



Approved by: Eric Shih / Manager



Sporton International (ShenZhen) Inc.

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People's Republic of China



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REVISION HISTORY

| REPORT NO. | VERSION | DESCRIPTION | ISSUED DATE |
|------------|---------|-------------------------|---------------|
| FC171528 | Rev. 01 | Initial issue of report | Aug. 23, 2021 |
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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 12.89 dB at 0.280 MHz |
| 3.2 | 15.109 | Radiated Emission | < 15.109 limits | PASS | Under limit 8.4 dB at 58.130 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

Gosuncn Technology Group Co., Ltd.

6F, 2819 KaiChuang Blvd., Science Town, Huangpu District, Guangzhou City, Guangdong, China.

1.2. Manufacturer

Gosuncn Technology Group Co., Ltd.

6F, 2819 KaiChuang Blvd., Science Town, Huangpu District, Guangzhou City, Guangdong, China.

1.3. Product Feature of Equipment Under Test

| Product Feature | |
|---------------------------------|---|
| Equipment | Automatic Database Diagnostic Monitor (LTE OBD II Dongle) |
| Brand Name | GOSUNCN |
| Model Name | GD201 |
| FCC ID | 2APNR-GD201 |
| EUT supports Radios application | GSM/LTE Cat M1/Bluetooth LE/GNSS |
| IMEI Code | Conduction: 864341050000010 Radiation: 864341050000028 |
| HW Version | GD201_MB_A |
| SW Version | MCU_EN_GD201V1.1B02 |
| 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 | GSM850: 824 MHz ~ 849 MHz GSM1900: 1850MHz ~ 1910MHz LTE Band 2 : 1850 MHz ~ 1910 MHz LTE Band 4 : 1710 MHz ~ 1755 MHz LTE Band 5 : 824 MHz ~ 849 MHz LTE Band 12 : 699 MHz ~ 716 MHz LTE Band 13 : 777 MHz ~ 787 MHz LTE Band 26 : 814 MHz ~ 849 MHz Bluetooth: 2400 MHz ~ 2483.5 MHz |
| Rx Frequency | GSM850: 869 MHz ~ 894 MHz GSM1900: 1930 MHz ~ 1990 MHz LTE Band 2 : 1930 MHz ~ 1990 MHz LTE Band 4 : 2110 MHz ~ 2155 MHz |

| | |
|---------------------------|---|
| | LTE Band 5 : 869 MHz ~ 894 MHz LTE Band 12 : 729 MHz ~ 746 MHz LTE Band 13 : 746 MHz ~ 756 MHz LTE Band 26 : 859 MHz ~ 894 MHz Bluetooth: 2400 MHz ~ 2483.5 MHz GNSS : 1559 MHz ~ 1610 MHz |
| Antenna Type | WWAN : Fixed Internal Antenna Bluetooth : Fixed Internal Antenna GNSS: Fixed Internal Antenna |
| Type of Modulation | GPRS: GMSK EDGE(MCS 0-4): GMSK / (MCS 5-9): 8PSK LTE: QPSK / 16QAM Bluetooth LE : GFSK GNSS : BPSK |

GNSS = GLONASS + GPS

1.5. Modification of EUT

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

1.6. Test Location

Sporton International (Shenzhen) Inc. is accredited to ISO/IEC 17025:2017 by American Association for Laboratory Accreditation with Certificate Number 5145.01.

| | | | |
|---------------------------|---|----------------------------|---------------------------------------|
| Test Firm | Sporton International (Shenzhen) Inc. | | |
| Test Site Location | 1/F, 2/F, Bldg 5, Shiling Industrial Zone, Xinwei Village, Xili, Nanshan, Shenzhen, 518055 People's Republic of China TEL: +86-755-86379589 FAX: +86-755-86379595 | | |
| Test Site No. | Sporton Site No. | FCC Designation No. | FCC Test Firm Registration No. |
| | CO01-SZ | CN1256 | 421272 |

| | | | |
|---------------------------|---|----------------------------|---------------------------------------|
| Test Firm | Sporton International (Shenzhen) Inc. | | |
| Test Site Location | 101, 1st Floor, Block B, Building 1, No. 2, Tengfeng 4th Road, Fenghuang Community, Fuyong Street, Baoan District, Shenzhen City Guangdong Province China 518103 TEL: +86-755-33202398 | | |
| Test Site No. | Sporton Site No. | FCC Designation No. | FCC Test Firm Registration No. |
| | 03CH05-SZ | CN1256 | 421272 |

1.7. Test Software

| Item | Site | Manufacturer | Name | Version |
|------|-----------|--------------|------|-------------|
| 1. | 03CH05-SZ | AUDIX | E3 | 6.2009-8-24 |
| 2. | CO01-SZ | AUDIX | E3 | 6.120613b |

1.8. 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

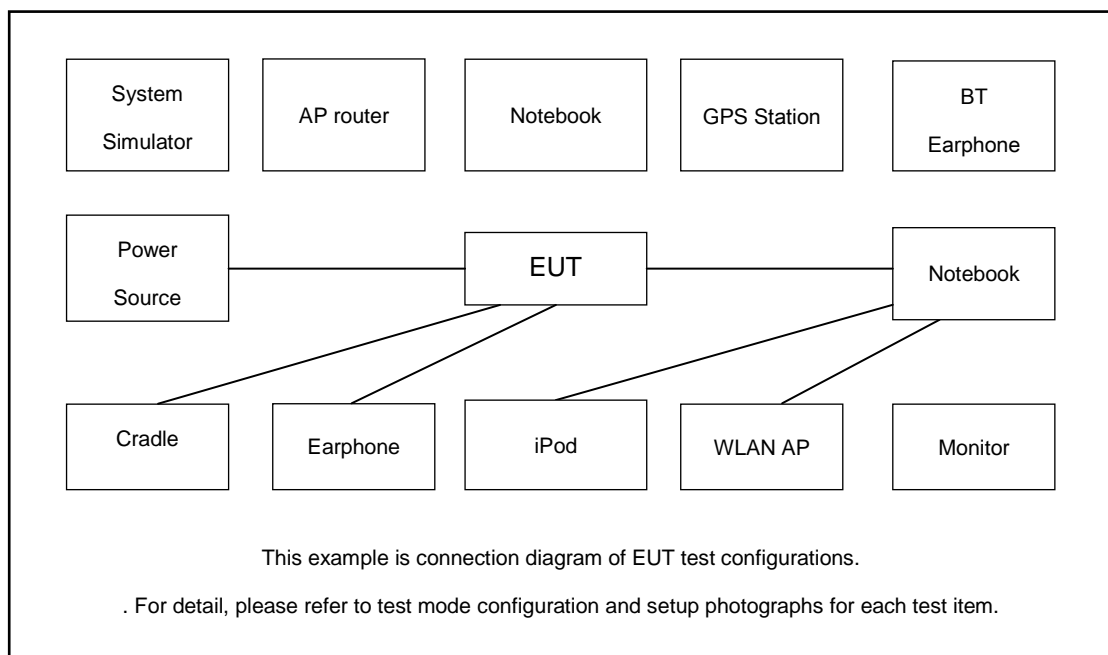
2.1. Test Mode

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 frequency or to 40 GHz, whichever is lower).

| Test Items | Function Type |
|---|--|
| AC Conducted Emission | Mode 1: GPRS 850 Idle(Middle) + Bluetooth Idle + GNSS Rx + Charging From Adapter + Battery |
| | Mode 2: LTE Band 12 Cat M1 Idle(High) + Bluetooth Idle + GNSS Rx + Charging From Adapter + Battery |
| | Mode 3: LTE Band 13 Cat M1 Idle(Low) + Bluetooth Idle + GNSS Rx + Charging From Adapter + Battery |
| | Mode 4: LTE Band 26 Cat M1 Idle(Middle) + Bluetooth Idle + GNSS Rx + Charging From Adapter + Battery |
| Radiated Emissions | Mode 1: GPRS 850 Idle(Middle) + Bluetooth Idle + GNSS Rx + Charging From Adapter + Battery |
| | Mode 2: LTE Band 12 Cat M1 Idle(High) + Bluetooth Idle + GNSS Rx + Charging From Adapter + Battery |
| | Mode 3: LTE Band 13 Cat M1 Idle(Low) + Bluetooth Idle + GNSS Rx + Charging From Adapter + Battery |
| | Mode 4: LTE Band 26 Cat M1 Idle(Middle) + Bluetooth Idle + GNSS Rx + Charging From Adapter + Battery |
| Remark: <ol style="list-style-type: none">1. The worst case of AC is mode 4; 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 GSM 850/ LTE Band 12/13/26, the worst channel was recorded in this report. | |

2.2.Connection Diagram of Test System



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

2.3. Support Unit used in test configuration and system

| Item | Equipment | Trade Name | Model Name | FCC ID | Data Cable | Power Cord |
|------|-------------------|------------|------------------|-------------|---|-----------------|
| 1. | WLAN AP | Dlink | DIR-820L | KA2IR820LA1 | N/A | Unshielded,1.8m |
| 2. | Notebook | Lenovo | E540 | FCC DoC | AC I/P : Unshielded, 1.2m DC O/P : Shielded, 1.8m | N/A |
| 3. | iPod | apple | MC69029/A | N/A | N/A | N/A |
| 4. | Mobile phone | Oneplus | N/A | N/A | N/A | N/A |
| 5. | Base Station | Anritsu | MT8820C | Fcc DoC | N/A | Shielded, 1.5m |
| 6. | Base Station(LTE) | Anritsu | CMW 500 | N/A | N/A | Unshielded,1.8m |
| 7. | Adapter | Mentech | MAC-120100X-D-16 | N/A | N/A | N/A |

2.4. EUT Operation Test Setup

The EUT was in GSM or 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 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.
2. Bluetooth idle with Mobile phone.

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.

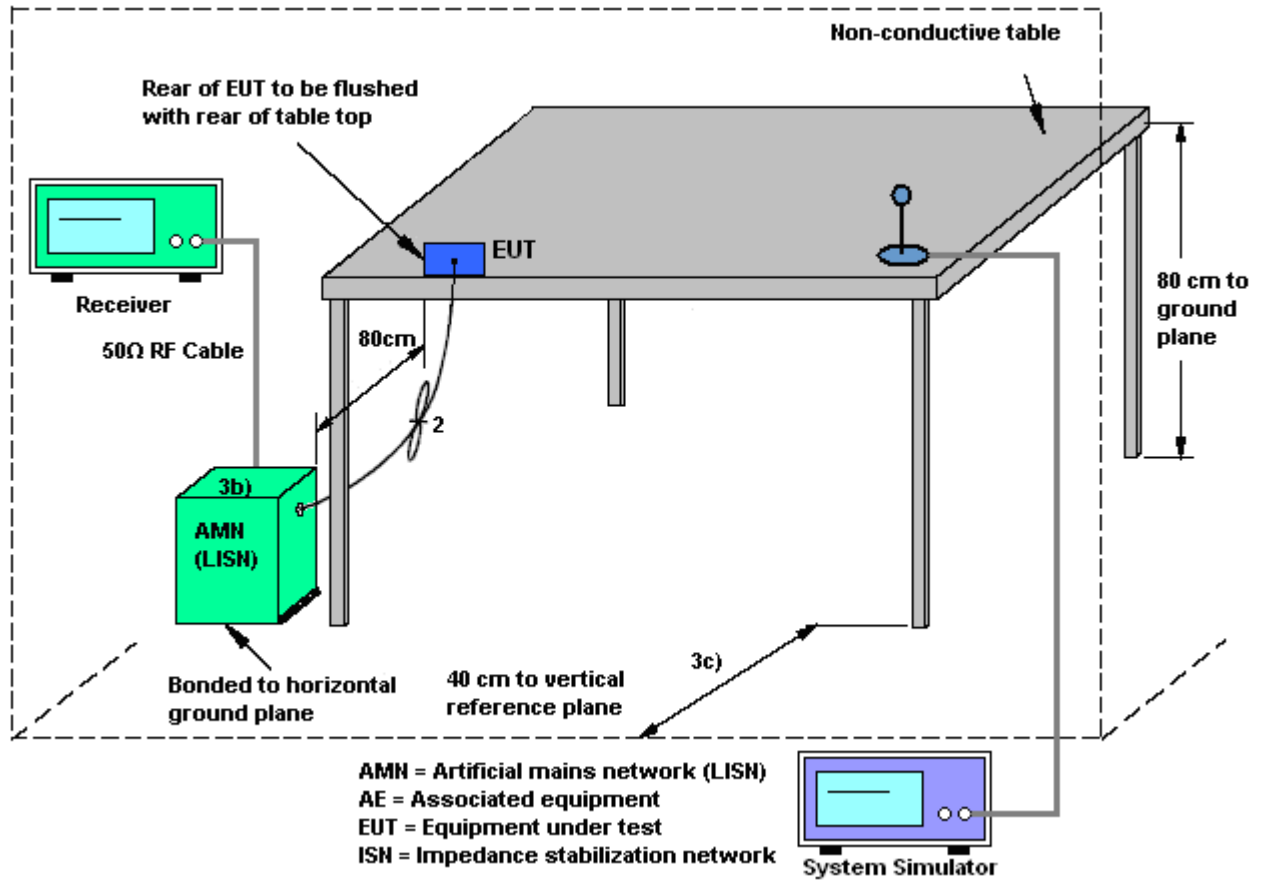
3.1.2 Measuring Instruments

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

3.1.3 Test Procedure

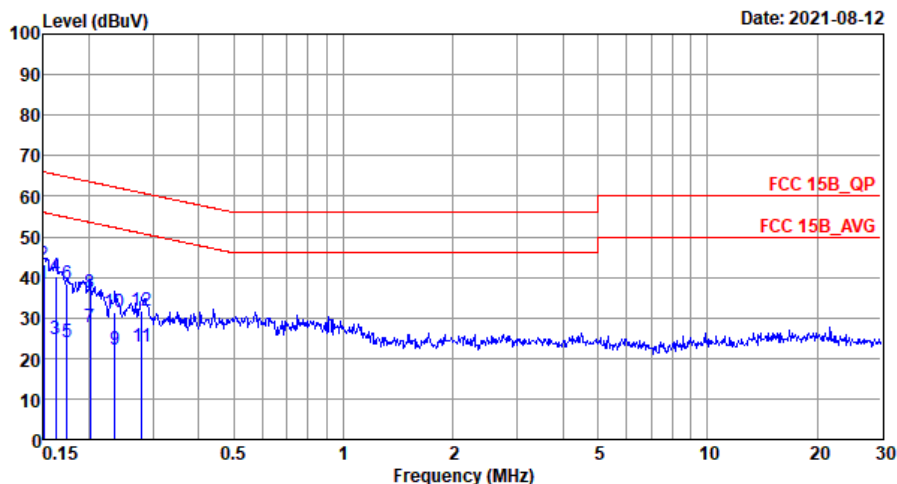
1. The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least 80 centimeters from any other grounded conducting surface.
2. Connect EUT to the power mains through a line impedance stabilization network (LISN).
3. All the support units are connecting to the other LISN.
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

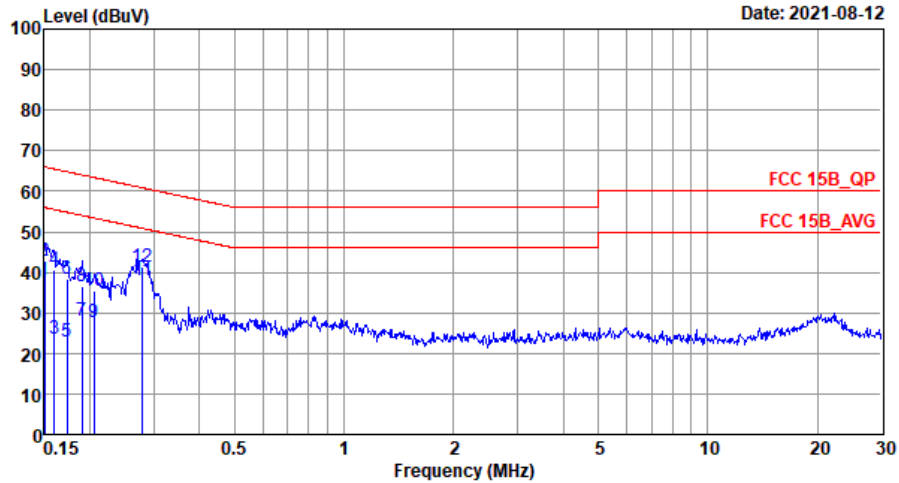
| | | | |
|------------------------|---|----------------------------|---------|
| Test Engineer : | Xie YuQiang | Temperature : | 22~25°C |
| | | Relative Humidity : | 50~55% |
| Test Voltage : | 120Vac / 60Hz | Phase : | Line |
| Remark : | All emissions not reported here are more than 10 dB below the prescribed limit. | | |



Site : CO01-SZ
Condition: FCC 15B QP LISN 20201030_L LINE

| | Freq | Level | Over Limit | Limit Line | Read Level | LISN Factor | Cable Loss | Remark |
|-----|------|-------|------------|------------|------------|-------------|------------|---------|
| | MHz | dBuV | dB | dBuV | dBuV | dB | dB | |
| 1 * | 0.15 | 38.49 | -17.51 | 56.00 | 28.40 | 0.08 | 10.01 | Average |
| 2 | 0.15 | 43.19 | -22.81 | 66.00 | 33.10 | 0.08 | 10.01 | QP |
| 3 | 0.16 | 24.70 | -30.64 | 55.34 | 14.60 | 0.08 | 10.02 | Average |
| 4 | 0.16 | 40.30 | -25.04 | 65.34 | 30.20 | 0.08 | 10.02 | QP |
| 5 | 0.17 | 23.90 | -30.87 | 54.77 | 13.80 | 0.08 | 10.02 | Average |
| 6 | 0.17 | 38.50 | -26.27 | 64.77 | 28.40 | 0.08 | 10.02 | QP |
| 7 | 0.20 | 27.81 | -25.73 | 53.54 | 17.70 | 0.08 | 10.03 | Average |
| 8 | 0.20 | 36.31 | -27.23 | 63.54 | 26.20 | 0.08 | 10.03 | QP |
| 9 | 0.24 | 22.19 | -30.07 | 52.26 | 12.11 | 0.05 | 10.03 | Average |
| 10 | 0.24 | 31.39 | -30.87 | 62.26 | 21.31 | 0.05 | 10.03 | QP |
| 11 | 0.28 | 22.96 | -27.89 | 50.85 | 12.90 | 0.02 | 10.04 | Average |
| 12 | 0.28 | 31.66 | -29.19 | 60.85 | 21.60 | 0.02 | 10.04 | QP |

| | | | |
|------------------------|---|----------------------------|---------|
| Test Engineer : | Xie YuQiang | Temperature : | 22~25°C |
| | | Relative Humidity : | 50~55% |
| Test Voltage : | 120Vac / 60Hz | Phase : | Neutral |
| Remark : | All emissions not reported here are more than 10 dB below the prescribed limit. | | |



Site : CO01-SZ
Condition: FCC 15B QP LISN 20201030_N NEUTRAL

| | Freq | Level | Over | Limit | Read | LISN | Cable | |
|------|------|-------|--------|-------|-------|--------|-------|---------|
| | MHz | dBuV | Limit | Line | Level | Factor | Loss | Remark |
| | | | dB | dBuV | dBuV | dB | dB | |
| 1 | 0.15 | 38.19 | -17.81 | 56.00 | 28.10 | 0.08 | 10.01 | Average |
| 2 | 0.15 | 42.69 | -23.31 | 66.00 | 32.60 | 0.08 | 10.01 | QP |
| 3 | 0.16 | 23.49 | -31.98 | 55.47 | 13.40 | 0.08 | 10.01 | Average |
| 4 | 0.16 | 40.59 | -24.88 | 65.47 | 30.50 | 0.08 | 10.01 | QP |
| 5 | 0.17 | 23.00 | -31.81 | 54.81 | 12.90 | 0.08 | 10.02 | Average |
| 6 | 0.17 | 38.30 | -26.51 | 64.81 | 28.20 | 0.08 | 10.02 | QP |
| 7 | 0.19 | 28.01 | -26.01 | 54.02 | 17.90 | 0.08 | 10.03 | Average |
| 8 | 0.19 | 36.41 | -27.61 | 64.02 | 26.30 | 0.08 | 10.03 | QP |
| 9 | 0.21 | 27.81 | -25.59 | 53.40 | 17.70 | 0.08 | 10.03 | Average |
| 10 | 0.21 | 35.41 | -27.99 | 63.40 | 25.30 | 0.08 | 10.03 | QP |
| 11 * | 0.28 | 37.96 | -12.89 | 50.85 | 27.90 | 0.02 | 10.04 | Average |
| 12 | 0.28 | 41.16 | -19.69 | 60.85 | 31.10 | 0.02 | 10.04 | QP |

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

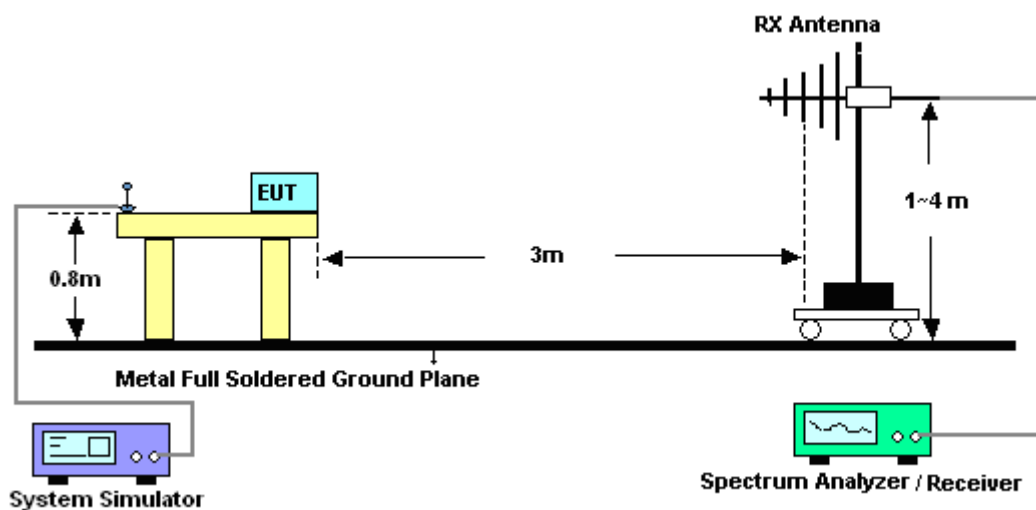
The measuring equipment is listed in the section 4 of this test report.

3.2.3. Test Procedures

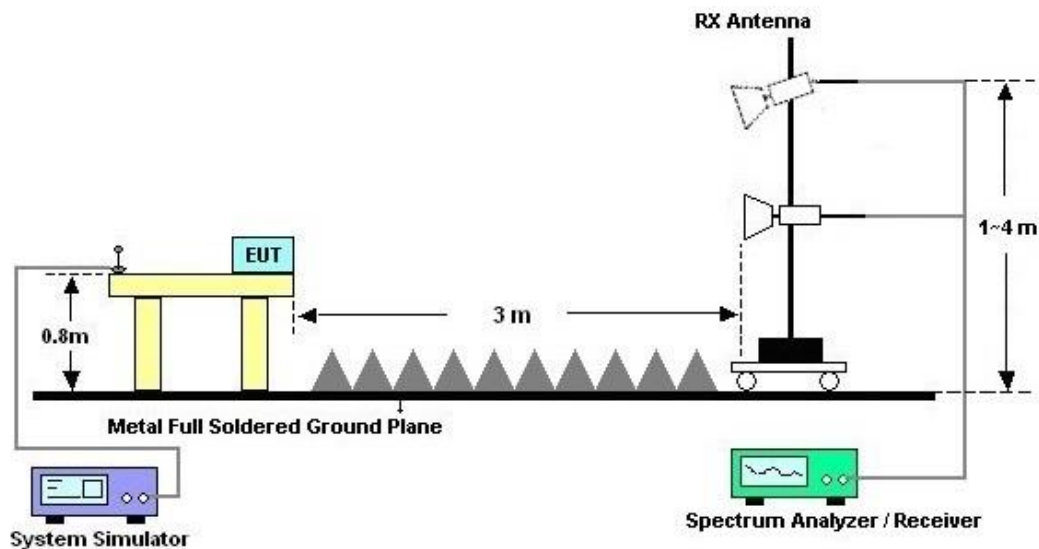
1. The EUT was placed on a turntable with 0.8 meter above ground.
2. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
3. The table was rotated 360 degrees to determine the position of the highest radiation.
4. The antenna 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
10. Exploratory radiated emissions testing of handheld and/or body-worn devices shall include rotation of the EUT through three orthogonal axes (X/Y/Z Plane) to determine the orientation (attitude) that maximizes the emissions.

3.2.4. Test Setup of Radiated Emission

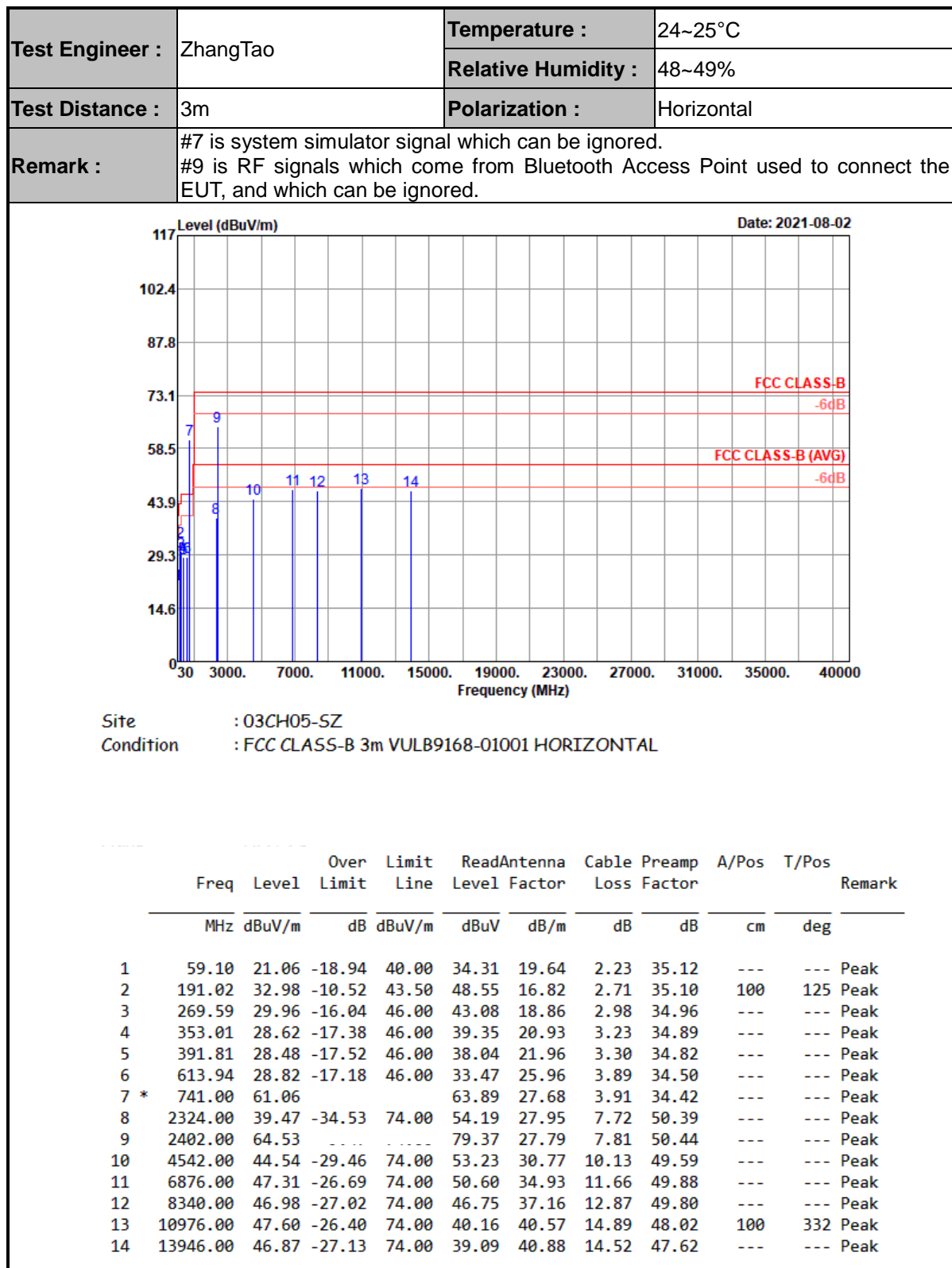
For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz

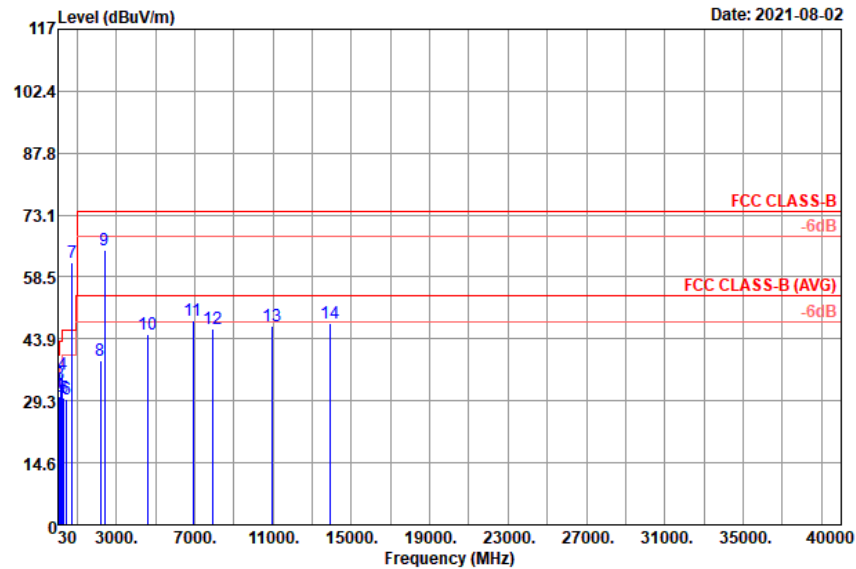


3.2.5. Test Result of Radiated Emission





| | | | |
|-----------------|---|---------------------|----------|
| Test Engineer : | ZhangTao | Temperature : | 24~25°C |
| | | Relative Humidity : | 48~49% |
| Test Distance : | 3m | Polarization : | Vertical |
| Remark : | #7 is system simulator signal which can be ignored. #9 is RF signals which come from Bluetooth Access Point used to connect the EUT, and which can be ignored. | | |



Site : 03CH05-SZ
Condition : FCC CLASS-B 3m VULB9168-01001 VERTICAL

| | Freq | Level | Over | Limit | ReadAntenna | Cable | Preamp | A/Pos | T/Pos | Remark |
|-----|----------|--------|--------|--------|-------------|--------|--------|--------|-------|----------|
| | MHz | dBuV/m | Limit | Line | Level | Factor | Loss | Factor | cm | deg |
| | | | dB | dBuV/m | dBuV | dB/m | dB | dB | | |
| 1 | 58.13 | 31.60 | -8.40 | 40.00 | 44.77 | 19.75 | 2.20 | 35.12 | 100 | 269 Peak |
| 2 | 120.21 | 30.17 | -13.33 | 43.50 | 45.73 | 17.10 | 2.50 | 35.16 | --- | --- |
| 3 | 164.83 | 33.34 | -10.16 | 43.50 | 46.53 | 19.30 | 2.61 | 35.10 | --- | --- |
| 4 | 268.62 | 35.41 | -10.59 | 46.00 | 48.57 | 18.82 | 2.98 | 34.96 | --- | --- |
| 5 | 340.40 | 29.94 | -16.06 | 46.00 | 40.85 | 20.77 | 3.22 | 34.90 | --- | --- |
| 6 | 481.05 | 29.56 | -16.44 | 46.00 | 37.30 | 23.55 | 3.41 | 34.70 | --- | --- |
| 7 * | 741.00 | 61.92 | | | 64.75 | 27.68 | 3.91 | 34.42 | --- | --- |
| 8 | 2184.00 | 38.69 | -35.31 | 74.00 | 53.44 | 28.00 | 7.56 | 50.31 | --- | --- |
| 9 | 2402.00 | 64.89 | | | 79.73 | 27.79 | 7.81 | 50.44 | --- | --- |
| 10 | 4606.00 | 44.86 | -29.14 | 74.00 | 53.33 | 30.92 | 10.19 | 49.58 | --- | --- |
| 11 | 6922.00 | 48.22 | -25.78 | 74.00 | 51.49 | 35.03 | 11.70 | 50.00 | 100 | 215 Peak |
| 12 | 7922.00 | 46.42 | -27.58 | 74.00 | 46.71 | 37.34 | 12.45 | 50.08 | --- | --- |
| 13 | 10938.00 | 46.89 | -27.11 | 74.00 | 39.74 | 40.51 | 14.69 | 48.05 | --- | --- |
| 14 | 13922.00 | 47.61 | -26.39 | 74.00 | 39.88 | 40.83 | 14.49 | 47.59 | --- | --- |

Note:

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



4. List of Measuring Equipment

| Instrument | Manufacturer | Model No. | Serial No. | Characteristics | Calibration Date | Test Date | Due Date | Remark |
|-----------------------------------|----------------|-------------|--------------|-----------------|------------------|---------------|---------------|-----------------------|
| EMI Receiver | R&S | ESR7 | 101630 | 9kHz~7GHz; | Mar. 07, 2021 | Aug. 12, 2021 | Mar. 06, 2022 | Conduction (CO01-SZ) |
| AC LISN | EMCO | 3816/2 LISN | 00103912 | 9kHz~30MHz | Dec. 25, 2020 | Aug. 12, 2021 | Dec. 24, 2021 | Conduction (CO01-SZ) |
| AC LISN (for auxiliary equipment) | EMCO | 3816/2SH | 00103892 | 9kHz~30MHz | Oct. 15, 2020 | Aug. 12, 2021 | Oct. 14, 2021 | Conduction (CO01-SZ) |
| AC Power Source | Chroma | 61602 | 616020000891 | 100Vac~250Vac | Jul. 20, 2021 | Aug. 12, 2021 | Jul. 19, 2022 | Conduction (CO01-SZ) |
| EMI Test Receiver | R&S | ESR7 | 102261 | 9kHz~7GHz | Apr. 30, 2021 | Aug. 02, 2021 | Apr. 29, 2022 | Radiation (03CH05-SZ) |
| EXA Spectrum Analyzer | KEYSIGHT | N9010B | MY59071191 | 10Hz~44GHz | Apr. 28, 2021 | Aug. 02, 2021 | Apr. 27, 2022 | Radiation (03CH05-SZ) |
| Loop Antenna | R&S | HFH2-Z2 | 100354 | 9kHz~30MHz | Jun. 22, 2020 | Aug. 02, 2021 | Jun. 21, 2022 | Radiation (03CH05-SZ) |
| Log-periodic Antenna | SCHWARZBECK | VULB 9168 | 01001 | 20MHz~1.5GHz | Mar.15, 2021 | Aug. 02, 2021 | Mar. 14, 2022 | Radiation (03CH05-SZ) |
| Double Ridge Horn Antenna | SCHWARZBECK | BBHA9120D | 9120D-2206 | 1GHz~18GHz | Apr. 21, 2021 | Aug. 02, 2021 | Apr. 20, 2022 | Radiation (03CH05-SZ) |
| Horn Antenna | SCHWARZBECK | BBHA9170 | 00983 | 15GHz~40GHz | Apr. 14, 2021 | Aug. 02, 2021 | Apr. 13, 2022 | Radiation (03CH05-SZ) |
| Amplifier | EM Electronics | EM330 | 060756 | 0.01Hz~3000MHz | Mar. 12, 2021 | Aug. 02, 2021 | Mar. 11, 2022 | Radiation (03CH05-SZ) |
| HF Amplifier | EM Electronics | EM01G18GA | 060781 | 1GHz~18GHz | Apr. 17, 2021 | Aug. 02, 2021 | Apr. 16, 2022 | Radiation (03CH05-SZ) |
| HF Amplifier | EM Electronics | EM18G40G | 060778 | 18GHz~40GHz | Apr. 17, 2021 | Aug. 02, 2021 | Apr. 16, 2022 | Radiation (03CH05-SZ) |
| Amplifier | Keysight | 83017A | MY53270357 | 500MHz~26.5GHz | Apr. 17, 2021 | Aug. 02, 2021 | Apr. 16, 2022 | Radiation (03CH05-SZ) |
| AC Power Source | APC | AFV-S-600 | F119050013 | N/A | NCR | Aug. 02, 2021 | NCR | Radiation (03CH05-SZ) |

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% ($U = 2Uc(y)$) | 2.2dB |
|---|-------|

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

| | |
|---|-------|
| Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$) | 4.2dB |
|---|-------|

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

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

Uncertainty of Radiated Emission Measurement (18000 MHz ~ 40000 MHz)

| | |
|---|-------|
| Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$) | 4.1dB |
|---|-------|