



EMC TEST REPORT

Applicant Xiaomi Communications Co., Ltd.

FCC ID 2AFZZC3JG

Product Mobile Phone

Brand Redmi

Model M1908C3JG

Report No. R1907A0357-E1V1

Issue Date August 14, 2019

TA Technology (Shanghai) Co., Ltd. tested the above equipment in accordance with the requirements in **FCC** Code CFR47 Part15B (2018)/ ANSI C63.4 (2014). The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.

Performed by: Wei Liu/ Manager

Wei Liu

Approved by: Guangchang Fan/ Director

Guangchang Fan

TA Technology (Shanghai) Co., Ltd.

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Summary of measurement results

| Number Test Case | | Clause in FCC Rules | Conclusion | | | |
|--|-------------------|---------------------------------|------------|--|--|--|
| 1 | Radiated Emission | FCC Part15.109, ANSI C63.4-2014 | PASS | | | |
| 2 Conducted Emission | | FCC Part15.107, ANSI C63.4-2014 | PASS | | | |
| Test Date: June 2, 2019 ~July 30, 2019 | | | | | | |





1 Test Laboratory

1.1 Notes of the Test Report

This report shall not be reproduced in full or partial, without the written approval of **TA technology** (shanghai) co., Ltd. The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein .Measurement Uncertainties were not taken into account and are published for informational purposes only. This report is written to support regulatory compliance of the applicable standards stated above.

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1.2 Test facility

FCC (Designation number: CN1179, Test Firm Registration Number: 446626)

TA Technology (Shanghai) Co., Ltd. has been listed on the US Federal Communications Commission list of test facilities recognized to perform electromagnetic emissions measurements.

IC (recognition number is 8510A)

TA Technology (Shanghai) Co., Ltd. has been listed by industry Canada to perform electromagnetic emission measurement.

VCCI (recognition number is C-4595, T-2154, R-4113, G-10766)

TA Technology (Shanghai) Co., Ltd. has been listed by industry Japan to perform electromagnetic emission measurement.

A2LA (Certificate Number: 3857.01)

TA Technology (Shanghai) Co., Ltd. has been listed by American Association for Laboratory Accreditation to perform electromagnetic emission measurement.



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1.3 Testing Location

Company: TA Technology (Shanghai) Co., Ltd.

Address: No.145, Jintang Rd, Tangzhen Industry Park, Pudong Shanghai, China

City: Shanghai

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Website: http://www.ta-shanghai.com

E-mail: xukai@ta-shanghai.com



General Description of Equipment under Test

2.1 Client Information

| Applicant | Xiaomi Communications Co., Ltd. | | | |
|----------------------|---|--|--|--|
| Applicant address | The Rainbow City of China Resources, NO.68, Qinghe Middle | | | |
| Applicant address | Street, Haidian District, Beijing, China | | | |
| Manufacturer | Xiaomi Communications Co., Ltd. | | | |
| Manageratura | The Rainbow City of China Resources, NO.68, Qinghe Middle | | | |
| Manufacturer address | Street,Haidian District,Beijing,China | | | |

2.2 General information

| EUT Description | | | | | | |
|-----------------|--|-------------|-------------|--|--|--|
| Device Type: | Portable Device | | | | | |
| Model: | M1908C3JG | | | | | |
| IMEI: | IMEI 1: 862384040009404 IMEI 2: 862384040012994 | | | | | |
| HW Version: | P1.1 | | | | | |
| SW Version: | MIUI 10 | | | | | |
| Antenna Type: | Fixed Internal Antenna | | | | | |
| | Band | Tx (MHz) | Rx (MHz) | | | |
| | GSM 850 | 824 ~ 849 | 869 ~ 894 | | | |
| | GSM 1900 | 1850 ~ 1910 | 1930 ~ 1990 | | | |
| | WCDMA Band II | 1850 ~ 1910 | 1930 ~ 1990 | | | |
| | WCDMA Band IV | 1710 ~ 1755 | 2110 ~ 2155 | | | |
| | WCDMA Band V | 824 ~ 849 | 869 ~ 894 | | | |
| | LTE Band 2 1850 ~ 1910 | | 1930 ~ 1990 | | | |
| | LTE Band 4 | 1710 ~ 1755 | 2110 ~ 2155 | | | |
| Frequency: | LTE Band 5 | 824 ~ 849 | 869 ~ 894 | | | |
| | LTE Band 7 | 2500 ~ 2570 | 2620 ~ 2690 | | | |
| | LTE Band 38 | 2570 ~ 2620 | 2570 ~ 2620 | | | |
| | Bluetooth: | 2402 ~ 2480 | 2402 ~ 2480 | | | |
| | WIFI 2.4G: | 2412 ~ 2462 | 2412 ~ 2462 | | | |
| | WIFI 5G(U-NII-1): | 5150 ~ 5250 | 5150 ~ 5250 | | | |
| | WIFI 5G(U-NII-2A): | 5250 ~ 5350 | 5250 ~ 5350 | | | |
| | WIFI 5G(U-NII-2C): | 5470 ~ 5725 | 5470 ~ 5725 | | | |
| | WIFI 5G(U-NII-3): | 5725 ~ 5825 | 5725 ~ 5825 | | | |

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| | EMC Test Report | Report No.: R1907A0357-E1V1 | | | | | |
|-----------------------|---|-----------------------------|-------------------------------|---------------------|--|--|--|
| | | FM(VHF band II) | 1 | 87,5 MHz to 108 MHz | | | |
| | | GSM: GMSK | | | | | |
| | | GPRS: GMSK | | | | | |
| | | EGPRS: GMSK/8PSK | | | | | |
| | | WCDMA RMC: QPSK | | | | | |
| | | HSDPA: QPSK | | | | | |
| | | HSUPA: QPSK | | | | | |
| Modulat | ion: | DC-HSDPA:64QAM | | | | | |
| | | HSPA+: 16QAM | | | | | |
| | | LTE: QPSK / 16QAM/6 | 4QAM | | | | |
| | | Bluetooth: GFSK, π/4 | -DQPSK, 8-DPSK | | | | |
| | | Bluetooth v4.2 LE: GFS | SK | | | | |
| | | WLAN 802.11b: DSSS | | | | | |
| | | WLAN 802.11a/g/n/ac: | OFDM | | | | |
| | | EUT | Accessory | | | | |
| Adapter | | Manufacturer: Jiangsu | Chenyang Electron Co., Ltd | i . | | | |
| Auaptei | lei | Model: MDY-09-EQ | | | | | |
| Battery | | Manufacturer: CosMX | | | | | |
| Dattery | 51 y | Model: BN46 | | | | | |
| | | Manufacturer: LUXSHA | ARE Precision Industry Co., I | Ltd. | | | |
| USB Ca | ıble 1 | Model: L23312 | | | | | |
| | | 100cm Cable, Shielded | | | | | |
| | | Manufacturer: SU ZHC | U KELI SCIENCE&TECHN | OLOGY DEVELOPMENT | | | |
| USB Ca | ıble 2 | CO.,LTD | | | | | |
| USD Ca | Cable 2 | Model: K23312 | | | | | |
| 100cm Cable, Shielded | | | | | | | |
| | Auxiliary test equipment | | | | | | |
| PC | | PC Manufacturer: Micro | osoft Corporation | | | | |
| ۲٥ | | Model: L20170076 | | | | | |
| Note: Ti | Note: The information of the EUT is declared by the manufacturer. | | | | | | |
| | | | | | | | |

| Item | Configure 1 Configure 2 | | | |
|----------|-------------------------|----------|--|--|
| Software | The same The same | | | |
| Hardware | The same | The same | | |
| Flash | 3+32 4+64 | | | |
| Other | The same | The same | | |

Note: Customer declaration, two configures is the same, except for flash. There are more than one Configure, each one should be applied throughout the compliance test respectively, however, only the worst case (Configure 1) will be recorded in this report.



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2.3 Applied Standards

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

Test standards FCC Code CFR47 Part15B (2018) ANSI C63.4 (2014)





2.4 Test Mode

| Test Mode | Test Mode for RE | | | | |
|-----------|---|--|--|--|--|
| Mode 1: | USB Copy(EUT with PC) + USB cable + earphone + rear camera On + MP3 +Idle | | | | |
| Mode 2: | USB Copy(EUT with PC) + USB cable + earphone +front camera On + MP3 +Idle | | | | |
| Mode 3: | Adapter +USB cable+ earphone + front camera On +Idle | | | | |
| Mode4: | Adapter +USB cable + earphone + rear camera On +Idle | | | | |
| Mode 5: | Adapter + USB cable+ earphone + Mp3 +Idle | | | | |
| Mode 6: | Adapter + USB cable+ earphone +play video+Idle | | | | |
| Mode 7: | Adapter + USB cable + earphone + FM(98MHz) | | | | |
| Mode 8: | Front camera On +earphone + Idle | | | | |
| Mode 9: | Rear camera On + earphone + Idle | | | | |
| Mode 10: | Earphone+MP3+Idle | | | | |
| Mode 11: | Earphone +Play video+Idle | | | | |

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During the test, the preliminary test was performed in all modes with all adapters, USB and batteries, mode 1 with Battery 1 and USB cable 2 is selected as the worst condition. The test data of the worst-case condition was recorded in this report.

| Test Mode | Test Mode for CE | | | |
|-----------|---|--|--|--|
| Mode 1: | USB Copy(EUT with PC) + USB cable + earphone + rear camera On + MP3 +Idle | | | |
| Mode 2: | USB Copy(EUT with PC) + USB cable + earphone +front camera On + MP3 +Idle | | | |
| Mode 3: | Adapter +USB cable+ earphone + front camera On +Idle | | | |
| Mode4: | Adapter +USB cable + earphone + rear camera On +Idle | | | |
| Mode 5: | Adapter + USB cable+ earphone + Mp3 +Idle | | | |
| Mode 6: | Adapter + USB cable+ earphone +play video+Idle | | | |
| Mode 7: | Adapter + USB cable + earphone + FM(98MHz) | | | |

During the test, the preliminary test was performed in all modes with all adapters, USB and batteries, mode 1 with Battery 1 and USB cable 2 is selected as the worst condition. The test data of the worst-case condition was recorded in this report.





3 Test Case Results

3.1 Radiated Emission

Ambient condition

| Temperature | Relative humidity | Pressure |
|-------------|-------------------|----------|
| 24°C~26°C | 45%~50% | 102.5kPa |

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Methods of Measurement

The EUT is placed on a non-metallic table 0.8m above the horizontal metal reference ground plane. The distance between EUT and receive antenna should be 3 meters. During the test, the EUT was operating in its typical mode. The test method is according to ANSI C63.4-2014. Sweep the whole frequency band through the range from 30MHz to the 5th harmonic of the carrier. During the test, the height of receive antenna shall be moved from 1 to 4 meters, and the antenna shall be performed under horizontal and vertical polarization. The turn table shall be rotated from 0 to 360 degrees for detecting the maximum of radiated signal level.

The data of cable loss and antenna factor has been calibrated in full testing frequency range before the testing. During the test, the EUT is worked at maximum output power.

Set the spectrum analyzer in the following:

Below 1GHz:

RBW=100 kHz / VBW=300 kHz / Sweep=AUTO

Above 1GHz:

- (a) PEAK: RBW=1MHz / VBW=3MHz/ Sweep=AUTO
- (b) AVERAGE: RBW=1MHz / VBW=3MHz / Sweep=AUTO

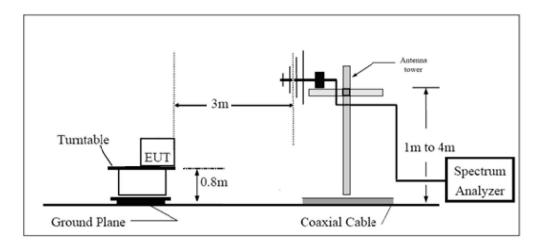
The radiated emission was measured in the following position: EUT stand-up position (Z axis), lie-down position (X, Y axis). The worst emission was found in lie-down position (X axis) and the worst case was recorded.

During the test, EUT is connected to a laptop via a USB cable in the case of Transfer Data mode. The EUT is used as the peripheral equipment of the PC. The data is transferred from EUT to PC;

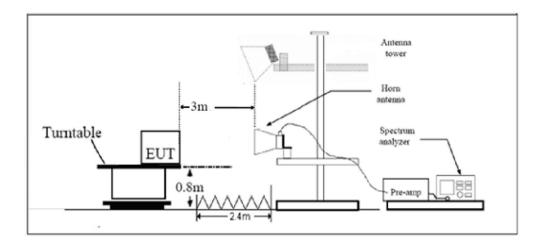


Test Setup

Below 1GHz



Above 1GHz



Note: Area side:2.4mX3.6m

Antenna Tower meets ANSI C63.4 requirements for measurements above 1 GHz by keeping the antenna aimed at the EUT during the antenna's ascent/ descent along the antenna mast.



Limits

| Frequency (MHz) | Field Strength (dΒμV/m) | Detector |
|--|----------------------------|------------|
| 30 -88 | 40.0 | Quasi-peak |
| 88-216 | 43.5 | Quasi-peak |
| 216 – 960 | 46.0 | Quasi-peak |
| 960-1000 | 54.0 | Quasi-peak |
| 1000-5 th harmonic of the highest | 54 | Average |
| frequency or 40GHz, which is lower | 74 | Peak |

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Measurement Uncertainty

The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor k = 1.96.

| Frequency | Uncertainty | | |
|----------------|-------------|--|--|
| 30MHz~200MHz | 4.02 dB | | |
| 200MHz~1000MHz | 3.28 dB | | |
| 1GHz~18GHz | 3.70 dB | | |
| 18GHz~26.5GHz | 5.78 dB | | |
| 26.5GHz~40GHz | 5.82 dB | | |



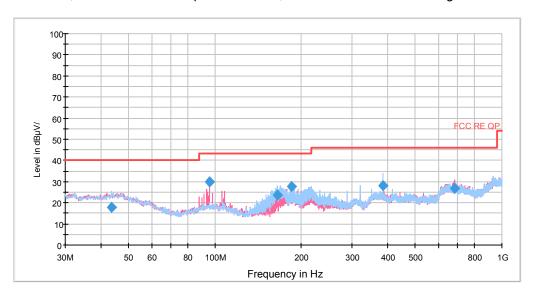
____ EMC lest Report

Test Results

Sweep the whole frequency band through the range from 30MHz to the 5th harmonic of the carrier, the Emissions in the frequency band 18GHz- 40GHz is more than 20dB below the limit are not reported.

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The following graphs display the maximum values of horizontal and vertical by software. For above 1GHz, Blue trace uses the peak detection, Green trace uses the average detection.

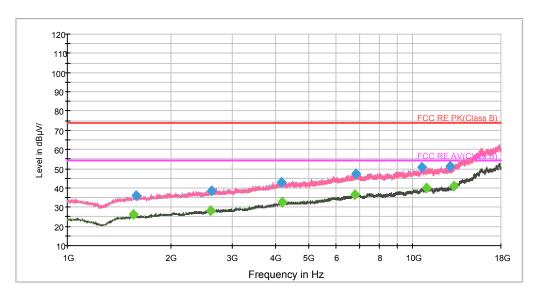


Radiated Emission from 30MHz to 1GHz

| Frequency | Quasi-Peak | Height | Polarization | Azimuth | Correct | Margin | Limit |
|------------|------------|--------|--------------|---------|-------------|--------|----------|
| (MHz) | (dBuV/m) | (cm) | | (deg) | Factor (dB) | (dB) | (dBuV/m) |
| 43.580000 | 17.8 | 100.0 | Н | 269.0 | -3.7 | 22.2 | 40.0 |
| 95.475000 | 30.0 | 100.0 | V | 92.0 | -10.2 | 13.5 | 43.5 |
| 164.345000 | 23.7 | 175.0 | Н | 46.0 | -13.8 | 19.8 | 43.5 |
| 184.230000 | 27.8 | 100.0 | V | 51.0 | -13.0 | 15.8 | 43.5 |
| 384.050000 | 28.3 | 100.0 | Н | 199.0 | -5.9 | 17.7 | 46.0 |
| 685.235000 | 26.8 | 100.0 | V | 143.0 | -1.2 | 19.2 | 46.0 |

Remark: 1. Correction Factor = Antenna factor+ Insertion loss(cable loss+amplifier gain)

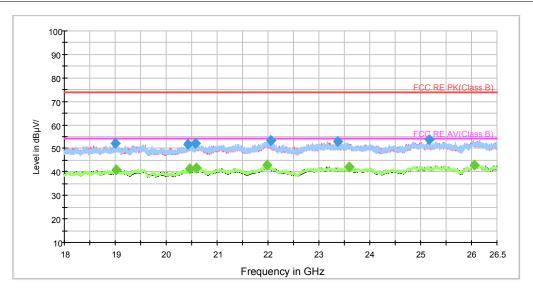
2. Margin = Limit - Quasi-Peak



Radiated Emission from 1GHz to 18GHz

| Frequency (MHz) | Peak (dBuV/m) | Height (cm) | Polarization | Azimuth (deg) | Correct Factor (dB) | Margin (dB) | Limit (dBuV/m) |
|--------------------|------------------|----------------|--------------|---------------|---------------------------|----------------|-------------------|
| 1584.375000 | 35.8 | 100.0 | Н | 99.0 | -7.5 | 38.2 | 74.0 |
| 2612.875000 | 38.6 | 100.0 | Н | 106.0 | -3.3 | 35.4 | 74.0 |
| 4155.625000 | 43.1 | 100.0 | Н | 340.0 | 2.0 | 30.9 | 74.0 |
| 6858.625000 | 47.5 | 200.0 | V | 247.0 | 7.7 | 26.5 | 74.0 |
| 10590.125000 | 50.5 | 200.0 | V | 273.0 | 11.8 | 23.5 | 74.0 |
| 12783.125000 | 51.0 | 200.0 | V | 215.0 | 13.0 | 23.0 | 74.0 |

| Frequency (MHz) | Average (dBuV/m) | Height (cm) | Polarization | Azimuth (deg) | Correct Factor (dB) | Margin (dB) | Limit (dBuV/m) |
|--------------------|---------------------|----------------|--------------|---------------|---------------------------|----------------|-------------------|
| 1552.500000 | 26.0 | 200.0 | V | 319.0 | -7.7 | 28.0 | 54.0 |
| 2593.750000 | 28.3 | 100.0 | Н | 184.0 | -3.4 | 25.7 | 54.0 |
| 4181.125000 | 32.6 | 200.0 | V | 353.0 | 2.1 | 21.4 | 54.0 |
| 6792.750000 | 36.6 | 100.0 | Н | 340.0 | 7.7 | 17.4 | 54.0 |
| 10949.250000 | 39.8 | 100.0 | Н | 307.0 | 12.6 | 14.2 | 54.0 |
| 13123.125000 | 41.1 | 200.0 | Н | 168.0 | 14.1 | 12.9 | 54.0 |

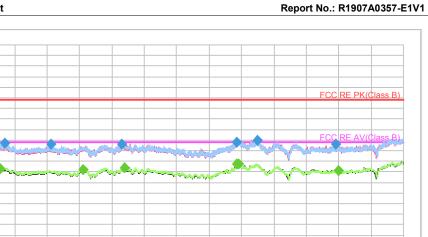


Radiated Emission from 18GHz to 26.5GHz

| Frequency (MHz) | Peak (dBuV/m) | Height (cm) | Polarization | Azimuth (deg) | Correct Factor (dB) | Margin (dB) | Limit (dBuV/m) |
|--------------------|------------------|----------------|--------------|---------------|---------------------------|----------------|-------------------|
| 18996.625000 | 52.1 | 100.0 | V | 264.0 | -0.2 | 21.9 | 74.0 |
| 20420.375000 | 51.6 | 100.0 | Н | 146.0 | -0.9 | 22.4 | 74.0 |
| 20578.687500 | 52.2 | 200.0 | Н | 346.0 | -1.0 | 21.8 | 74.0 |
| 22049.187500 | 53.6 | 200.0 | V | 49.0 | -1.4 | 20.4 | 74.0 |
| 23365.625000 | 52.9 | 200.0 | Н | 113.0 | -0.1 | 21.1 | 74.0 |
| 25162.312500 | 53.9 | 100.0 | V | 78.0 | 0.7 | 20.1 | 74.0 |

| Frequency (MHz) | Average (dBuV/m) | Height (cm) | Polarization | Azimuth (deg) | Correct Factor (dB) | Margin (dB) | Limit (dBuV/m) |
|--------------------|---------------------|-------------|--------------|---------------|---------------------------|----------------|-------------------|
| 19013.625000 | 40.9 | 100.0 | V | 125.0 | -0.2 | 13.1 | 54.0 |
| 20455.437500 | 41.4 | 200.0 | Н | 339.0 | -0.9 | 12.6 | 54.0 |
| 20598.875000 | 41.6 | 100.0 | V | 58.0 | -1.1 | 12.4 | 54.0 |
| 21974.812500 | 42.8 | 200.0 | Н | 0.0 | -1.3 | 11.2 | 54.0 |
| 23585.562500 | 42.2 | 100.0 | V | 0.0 | -0.3 | 11.8 | 54.0 |
| 26058.000000 | 43.1 | 200.0 | Н | 222.0 | 0.9 | 10.9 | 54.0 |

26.5



Frequency in GHz

Radiated Emission from 26.5GHz to 40GHz

| Frequency (MHz) | Peak (dBuV/m) | Height (cm) | Polarization | Azimuth (deg) | Correct Factor (dB) | Margin (dB) | Limit (dBuV/m) |
|--------------------|------------------|----------------|--------------|---------------|---------------------------|----------------|-------------------|
| 27681.250000 | 53.8 | 200.0 | V | 109.0 | 0.2 | 20.2 | 74.0 |
| 29129.125000 | 53.3 | 200.0 | Н | 0.0 | -0.2 | 20.7 | 74.0 |
| 31312.750000 | 53.3 | 100.0 | V | 343.0 | -0.5 | 20.7 | 74.0 |
| 34856.500000 | 54.2 | 100.0 | V | 242.0 | 1.6 | 19.8 | 74.0 |
| 35491.000000 | 55.0 | 200.0 | V | 3.0 | 1.5 | 19.0 | 74.0 |
| 37905.812500 | 53.0 | 200.0 | Н | 0.0 | 0.3 | 21.0 | 74.0 |

| Frequency (MHz) | Average (dBuV/m) | Height (cm) | Polarization | Azimuth (deg) | Correct Factor (dB) | Margin (dB) | Limit (dBuV/m) |
|--------------------|---------------------|-------------|--------------|---------------|---------------------------|----------------|-------------------|
| 27544.562500 | 41.7 | 100.0 | Н | 125.0 | 0.4 | 12.3 | 54.0 |
| 30106.187500 | 41.0 | 200.0 | Н | 69.0 | -1.9 | 13.0 | 54.0 |
| 31400.500000 | 41.9 | 200.0 | Н | 169.0 | -0.5 | 12.1 | 54.0 |
| 34856.500000 | 43.6 | 200.0 | V | 70.0 | 1.6 | 10.4 | 54.0 |
| 34898.687500 | 43.8 | 200.0 | V | 61.0 | 1.9 | 10.2 | 54.0 |
| 38005.375000 | 40.8 | 200.0 | V | 70.0 | 0.3 | 13.2 | 54.0 |



3.2 Conducted Emission

EMC Test Report

Ambient condition

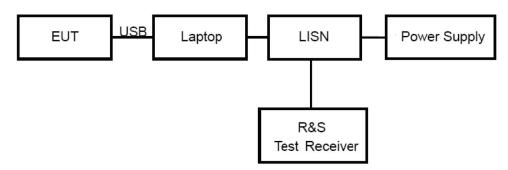
| Temperature | Relative humidity | Pressure |
|-------------|-------------------|----------|
| 24°C ~26°C | 50%~55% | 102.5kPa |

Methods of Measurement

The EUT is placed on a non-metallic table of 80cm height above the horizontal metal reference ground plane. During the test, the EUT was operating in its typical mode. The test method is according to ANSI C63.4-2014. Connect the AC power line of the EUT to the L.I.S.N. Use EMI receiver to detect the average and Quasi-peak value. RBW is set to 9 kHz, VBW is set to 30kHz. The measurement result should include both L line and N line.

During the test, EUT is connected to a laptop via a USB cable in the case of Transfer Data mode. The EUT is used as the peripheral equipment of the PC. The data is transferred from EUT to PC;

Test Setup



Note: Power Supply is AC Power source and it is used to change the voltage 120V/60Hz.

Limits

| Frequency | Conducted Limits(dBµV) | | | | | | |
|-------------------------|--|-----------------------|--|--|--|--|--|
| (MHz) | 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 I | Decreases with the logarithm of the frequency. | | | | | | |

Measurement Uncertainty



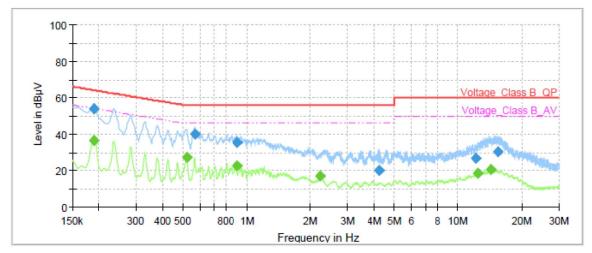
MC Test Report No.: R1907A0357-E1V1

The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor k = 1.96. U= 2.57 dB.



Test Results

Following plots, Blue trace uses the peak detection; Green trace uses the average detection.



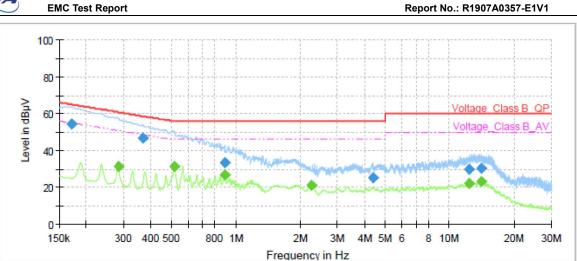
Report No.: R1907A0357-E1V1

| Frequency (MHz) | QuasiPeak (dBµV) | Average (dBµV) | Limit (dBµV) | Margin (dB) | Meas. Time (ms) | Bandwidth (kHz) | Line | Filter | Corr. (dB) |
|--------------------|---------------------|-------------------|-----------------|----------------|-----------------------|--------------------|------|--------|---------------|
| 0.19 | | 36.55 | 54.11 | 17.56 | 1000.0 | 9.000 | L1 | ON | 19.17 |
| 0.19 | 53.83 | | 64.11 | 10.28 | 1000.0 | 9.000 | L1 | ON | 19.17 |
| 0.52 | | 27.25 | 46.00 | 18.75 | 1000.0 | 9.000 | L1 | ON | 19.24 |
| 0.57 | 39.99 | | 56.00 | 16.01 | 1000.0 | 9.000 | L1 | ON | 19.26 |
| 0.90 | | 22.68 | 46.00 | 23.32 | 1000.0 | 9.000 | L1 | ON | 19.24 |
| 0.90 | 35.16 | | 56.00 | 20.84 | 1000.0 | 9.000 | L1 | ON | 19.24 |
| 2.24 | | 16.78 | 46.00 | 29.22 | 1000.0 | 9.000 | L1 | ON | 19.06 |
| 4.23 | 19.76 | | 56.00 | 36.24 | 1000.0 | 9.000 | L1 | ON | 19.10 |
| 12.10 | 26.80 | | 60.00 | 33.20 | 1000.0 | 9.000 | L1 | ON | 19.41 |
| 12.40 | | 18.63 | 50.00 | 31.37 | 1000.0 | 9.000 | L1 | ON | 19.43 |
| 14.23 | | 20.46 | 50.00 | 29.54 | 1000.0 | 9.000 | L1 | ON | 19.48 |
| 15.37 | 30.47 | | 60.00 | 29.53 | 1000.0 | 9.000 | L1 | ON | 19.46 |

Remark: Correct factor=cable loss + LISN factor

L line

Conducted Emission from 150 KHz to 30 MHz



| Frequency (MHz) | QuasiPeak (dBµV) | Average (dBµV) | Limit (dBµV) | Margin (dB) | Meas. Time (ms) | Bandwidth (kHz) | Line | Filter | Corr. (dB) |
|--------------------|---------------------|-------------------|-----------------|----------------|-----------------------|--------------------|------|--------|---------------|
| 0.17 | 54.45 | | 64.95 | 10.50 | 1000.0 | 9.000 | N | ON | 19.16 |
| 0.28 | | 31.52 | 50.74 | 19.22 | 1000.0 | 9.000 | N | ON | 19.18 |
| 0.37 | 46.48 | | 58.59 | 12.11 | 1000.0 | 9.000 | N | ON | 19.19 |
| 0.52 | | 31.45 | 46.00 | 14.55 | 1000.0 | 9.000 | N | ON | 19.24 |
| 0.89 | 33.52 | | 56.00 | 22.48 | 1000.0 | 9.000 | N | ON | 19.24 |
| 0.89 | | 26.46 | 46.00 | 19.54 | 1000.0 | 9.000 | N | ON | 19.24 |
| 2.26 | | 20.91 | 46.00 | 25.09 | 1000.0 | 9.000 | N | ON | 19.06 |
| 4.37 | 25.31 | | 56.00 | 30.69 | 1000.0 | 9.000 | N | ON | 19.10 |
| 12.32 | | 22.02 | 50.00 | 27.98 | 1000.0 | 9.000 | N | ON | 19.39 |
| 12.35 | 29.81 | | 60.00 | 30.19 | 1000.0 | 9.000 | N | ON | 19.40 |
| 14.06 | | 23.08 | 50.00 | 26.92 | 1000.0 | 9.000 | N | ON | 19.45 |
| 14.19 | 30.34 | | 60.00 | 29.66 | 1000.0 | 9.000 | N | ON | 19.44 |

Remark: Correct factor=cable loss + LISN factor

N line

Conducted Emission from 150 KHz to 30 MHz



4 Main Test Instrument

EMC Test Report

| Name | Manufacturer | Туре | Serial Number | Calibration Date | Expiration Time |
|----------------------------|--------------|-----------------------|------------------|---------------------|--------------------|
| Spectrum Analyzer | R&S | FSV40 | 15195-01- 00 | 2019-05-19 | 2020-05-18 |
| EMI Test Receiver | R&S | ESCI | 100948 | 2019-05-19 | 2020-05-18 |
| Trilog Antenna | SCHWARZBECK | VULB 9163 | 9163-201 | 2017-11-18 | 2019-11-17 |
| Horn Antenna | R&S | HF907 | 100126 | 2018-07-07 | 2020-07-06 |
| Standard Gain Horn | ETS-Lindgren | 3160-09 | 00102643 | 2018-06-20 | 2020-06-19 |
| Standard Gain Horn | STEATITE | QSH-SL-26- 40-K-15 | 16779 | 2017-07-20 | 2020-07-19 |
| EMI Test Receiver | R&S | ESR | 101667 | 2019-05-19 | 2020-05-18 |
| LISN | R&S | ENV216 | 101171 | 2016-12-16 | 2019-12-15 |
| Bore Sight Antenna mast | ETS | 2171B | 00058752 | 1 | 1 |
| Test software | EMC32 | R&S | 9.26.0 | 1 | 1 |

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