



EMC Test Report

Product Name: Smart Phone

Model Number: JSN-L23

Report No: SYHB(Z-EMC)20180719008002-2

FCC ID: QISJSN-L23

Reliability Laboratory of Huawei Technologies Co., Ltd.

(Global Compliance and Testing Center of Huawei Technologies Co., Ltd)

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Notice

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- 2. The laboratory has passed the accreditation by The American Association for Laboratory Accreditation (A2LA). The accreditation number is 2174.01
- 3. The laboratory has been listed by Industry Canada to perform electromagnetic emission measurements. The recognition numbers of test site are 6369A-1.
- 4. The laboratory (Reliability Lab of Huawei Technologies Co., Ltd) is also named as "Global Compliance and Testing Center of Huawei Technologies Co., Ltd", the both names have coexisted since 2009.
- 5. The laboratory has been recognized by the US Federal Communications Commission (FCC) to perform compliance testing subject to the Commission's Declaration Of Conformity (DOC) and Certification rules. The Designation Number is CN1173, and the Test Firm Registration Number is 294140."
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Applicant: Huawei Technologies Co., Ltd. Address: Administration Building, Headquarters of Huawei Technologies Co., Ltd., Bantian, Longgang District, Shenzhen, 518129, P.R.C **Date of Receipt Test Item:** 2018-08-06 **Start Date of Test:** 2018-08-07 **End Date of Test:** 2018-08-22 **Test Result:** Pass **Approved By** He Hao 2018-08-24 (Lab Manager) Signature Date Name

Prepared by

(Test Engineer)

2018-08-23

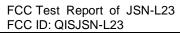
Date

Chang Lina

Name

Chang Lina

Signature



Security Level: secret



Modification Record

| No. | Last Report No. | Modification Description |
|-----|-----------------|--------------------------|
| 1 | NA | First Report. |



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1 General Information

1.1 EUT Description

| Product Name | | | | | | |
|--|---|--|--|--|--|--|
| Model Number JSN-L23 | EUT Description | | | | | |
| Input voltage | Product Name | | | | | |
| GSM 850:824MHz to 849MHz PCS 1900:1850MHz to 1910MHz WCDMA Band II: 1850MHz to 1910MHz WCDMA Band IV: 1710MHz to 1755MHz WCDMA Band V: 824MHz to 849MHz LTE Band 2: 1850MHz to 1910MHz LTE Band 4:1710MHz to 1755MHz LTE Band 4:1710MHz to 1755MHz LTE Band 5: 824MHz to 849MHz LTE Band 7:2500MHz to 2570MHz LTE Band 7:2500MHz to 2570MHz LTE Band 7:2545MHz to 2655MHz 2.4G WIFI: 2412MHz to 2462MHz Bluetooth: 2400MHz to 2483.5MHz GSM 850:869MHz to 894MHz PCS 1900:1930MHz to 1990MHz WCDMA Band II: 1930MHz to 1990MHz WCDMA Band IV: 2110MHz to 1990MHz WCDMA Band V: 2110MHz to 2155MHz LTE Band 2: 1930MHz to 1990MHz LTE Band 2: 1930MHz to 1990MHz LTE Band 3: 1930MHz to 1990MHz LTE Band 5: 869MHz to 894MHz LTE Band 5: 869MHz to 894MHz LTE Band 5: 869MHz to 2655MHz LTE Band 7:2620MHz to 2655MHz LTE Band 7:2620MHz to 2655MHz LTE Band 5: 859MHz to 108MHz Bluetooth: 2400MHz to 2483.5MHz FM: 87.5 MHz to 108MHz GPS: 1575.4ZMHz BDS: 1559.052MHz GLONASS: 1597.55MHz BS: 1559.0 | Model Number | JSN-L23 | | | | |
| PCS 1900:1850MHz to 1910MHz WCDMA Band II: 1850MHz to 1910MHz WCDMA Band IV: 1710MHz to 1755MHz WCDMA Band V: 824MHz to 849MHz LTE Band 2: 1850MHz to 1910MHz LTE Band 5: 824MHz to 849MHz LTE Band 5: 824MHz to 849MHz LTE Band 7:2500MHz to 2570MHz LTE Band 7:2500MHz to 2570MHz LTE Band 7:2500MHz to 2570MHz LTE Band 4:12545MHz to 2655MHz 2.4G WIF: 2412MHz to 2462MHz Bluetooth: 2400MHz to 1990MHz WCDMA Band IV: 10 894MHz PCS 1900:1930MHz to 1990MHz WCDMA Band IV: 2110MHz to 1990MHz WCDMA Band IV: 2110MHz to 1990MHz WCDMA Band IV: 2110MHz to 2155MHz LTE Band 4:2110MHz to 2155MHz LTE Band 4:2110MHz to 255MHz LTE Band 4:2110MHz to 255MHz LTE Band 4:2110MHz to 2655MHz LTE Band 5: 869MHz to 894MHz LTE Band 7:2620MHz to 2690MHz LTE Band 7:2620MHz to 2655MHz LTE Band 7:2620MHz to 2482MHz Bluetooth: 2400MHz to 2462MHz Bluetooth: 2400MHz to 2462MHz Bluetooth: 2400MHz to 2462MHz Bluetooth: 2590.52MHz GLONASS: 1597.55MHz S/N ESU0118627000239 HW Version BUT Accessory Data Cable USB A Male to Male to Micro Usb, Shielded Model: 130-26669 Manufacturer: HONGLIN TECHNOLOGY CO.,LTD Data Cable USB A Male to Male to Micro Usb, Shielded Model: WA0001 Manufacturer: NingBo Broad Telecommunication Co., Ltd | Input voltage | 3.82V | | | | |
| PCS 1900:1930MHz to 1990MHz | TX Frequency | PCS 1900:1850MHz to 1910MHz WCDMA Band II: 1850MHz to 1910MHz WCDMA Band IV: 1710MHz to 1755MHz WCDMA Band V: 824MHz to 849MHz LTE Band 2: 1850MHz to1910MHz LTE Band 4:1710MHz to 1755MHz LTE Band 5: 824MHz to 849MHz LTE Band 7:2500MHz to 2570MHz LTE Band 41:2545MHz to 2655MHz 2.4G WIFI: 2412MHz to 2462MHz | | | | |
| HW Version SW Version JSN-L23 8.2.0.106 EUT Accessory Data Cable USB A Male to Male to Micro Usb, Shielded Model: 130-26669 Manufacturer: HONGLIN TECHNOLOGY CO.,LTD Data Cable USB A Male to Male to Micro Usb, Shielded Model: WA0001 Manufacturer: NingBo Broad Telecommunication Co., Ltd | RX Frequency | PCS 1900:1930MHz to 1990MHz WCDMA Band II: 1930MHz to 1990MHz WCDMA Band IV: 2110MHz to 2155MHz WCDMA Band V: 869MHz to 894MHz LTE Band 2: 1930MHz to1990MHz LTE Band 4:2110MHz to 2155MHz LTE Band 5: 869MHz to 894MHz LTE Band 7:2620MHz to 2690MHz LTE Band 41:2545MHz to 2655MHz 2.4G WIFI: 2412MHz to 2462MHz Bluetooth: 2400MHz to 2483.5MHz FM: 87.5 MHz to 108MHz GPS: 1575.42MHz BDS: 1559.052MHz | | | | |
| SW Version EUT Accessory Data Cable USB A Male to Male to Micro Usb, Shielded Model: 130-26669 Manufacturer: HONGLIN TECHNOLOGY CO.,LTD Data Cable USB A Male to Male to Micro Usb, Shielded Model: WA0001 Manufacturer: NingBo Broad Telecommunication Co., Ltd | S/N | ESU0118627000239 | | | | |
| Data Cable (04070998) Data Cable USB A Male to Male to Micro Usb, Shielded Model: 130-26669 Manufacturer: HONGLIN TECHNOLOGY CO.,LTD Data Cable USB A Male to Male to Micro Usb, Shielded Model: WA0001 Manufacturer: NingBo Broad Telecommunication Co., Ltd | HW Version | HL1JSNM | | | | |
| Data Cable USB A Male to Male to Micro Usb, Shielded Model: 130-26669 Manufacturer: HONGLIN TECHNOLOGY CO.,LTD Data Cable USB A Male to Male to Micro Usb, Shielded Model: WA0001 Manufacturer: NingBo Broad Telecommunication Co., Ltd | SW Version | JSN-L23 8.2.0.106 | | | | |
| Data cable(04070998) Model: 130-26669 Manufacturer: HONGLIN TECHNOLOGY CO.,LTD Data Cable USB A Male to Male to Micro Usb,Shielded Model: WA0001 Manufacturer: NingBo Broad Telecommunication Co., Ltd | | EUT Accessory | | | | |
| Data cable(04070998) Model: WA0001 Manufacturer: NingBo Broad Telecommunication Co., Ltd | Data cable(04070998) | Model: 130-26669 Manufacturer: | | | | |
| Data cable (04070998) Data Cable USB A Male to Micro Usb, Shielded | Data cable(04070998) Model: WA0001 Manufacturer: | | | | | |
| | Data cable(04070998) | Data Cable USB A Male to Male to Micro Usb, Shielded | | | | |



| | Model: CUBB01M-HC304-DH | | |
|-----------------------|---|--|--|
| | Manufacturer: | | |
| | FOXCONN INTERCONNECT TECHNOLOGY LIMITED | | |
| | Data Cable USB A Male to Male to Micro Usb, Shielded | | |
| Data cable(04070998) | Model: L99U2017-CS-H | | |
| Data cable(04070990) | Manufacturer: | | |
| | Shenzhen Luxshare Precision Industry Co.,Ltd. | | |
| | Manufacturer:Huawei Technologies Co.,Ltd. | | |
| | Model: HW-050200U01 | | |
| | Input voltage: 100-240V 50/60Hz 0.5A | | |
| Adapter | Output Voltage: 5V === 2A | | |
| , rasp to | Rated Power:10W | | |
| | SN: H786K9J4V01394; | | |
| | B78697J4J03533; | | |
| | P78621J4278130; | | |
| | Manufacturer:Huawei Technologies Co.,Ltd. | | |
| | Model: HW-050200U02 | | |
| | Input voltage: 100-240V 50/60Hz 0.5A | | |
| A d = t = | Output Voltage: 5V === 2A | | |
| Adapter | Rated Power:10W | | |
| | SN: P95521J6200032; | | |
| | B95532J5T00018; | | |
| | H955KAJ4M00153; K95501J3N00026; | | |
| | Manufacturer:Huawei Technologies Co.,Ltd. | | |
| | Battery Model: HB386590ECW | | |
| | Rated capacity: 3650mAh | | |
| Bookargaahla Li jan | | | |
| Rechargeable Li-ion | Nominal Voltage: +3.82V | | |
| | Charging Voltage: === +4.40V | | |
| | SN: 5VXHACI609900945; | | |
| | 5VXRSYI424X0095B; | | |
| Family 27 (000 (000)) | Model: MEMD1632B580C00 | | |
| Earphone(22040229) | Manufacturer: | | |
| | Jiangxi Lianchuang Hongsheng Electronic Co. ,LTD | | |
| Earphone(22040229) | Model: EMC309-001 | | |
| | Manufacturer:Merry; | | |
| Fornbono (22040220) | Model: 1311-3291-3.5mm-229 | | |
| Earphone(22040229) | Manufacturer: Boluo County Quancheng Electronic Co.,ltd | | |
| | Boldo County Quantitieng Electronic Co.,ita | | |

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



1.2 Test Site Information

| Test Site 1: | RELIABILITY LABORATORY OF HUAWEI TECHNOLOGIES CO., LTD. |
|---------------------|---|
| Test Site Location: | Administration Building, Headquarters of Huawei Technologies Co., Ltd., Bantian, Longgang District, Shenzhen, 518129, P.R.C |

1.3 Applied Standards

APPLIED STANDARD

47 CFR FCC Part 15, Subpart B



2 Summary of Results

| Summary of Results | | | | | | |
|---|-------------------|---|------------|-------|--|--|
| Test Items | Test Mode | Performance Class & Required Performance Criteria | Resul t | Site | | |
| Radiated Emissions | Mode 2~ | CLASS B | Pass | Site1 | | |
| Enclosure Port | Mode 5 | CLASS B | F 455 | Site | | |
| Conducted Emissions DC Power Port AC Power Port Telecommunication Ports | Mode 1~ Mode 5 | CLASS B | Pass | Site1 | | |
| Note: 1, Measurement taken is within the uncertainty of test system. 2, The item has been tested; The item has not been tested. | | | | | | |

During the measurement, the environmental conditions complied with the range listed as below.

| Item | Required |
|----------------------|--------------|
| Ambient temperature | 15°C∼35°C |
| Relative humidity | 25%~75% |
| Atmospheric pressure | 86kPa∼106kPa |



3 System Configuration during EMC Test

3.1 Test Mode

The EUT was configured, installed, arranged and operated in a manner consistent with typical application. The following mode(s) were applied during the compliance test.

| Test Mode | |
|-----------|--|
| Mode 1: | Charging +traffic +WIFI+BT+GNSS On +Earphone |
| Mode 2: | Charging +Camera On +Earphone +idle |
| Mode 3: | Charging +Video Playing +Earphone +idle |
| Mode 4: | Charging +FM +Earphone +idle |
| Mode 5: | USB Copy(EUT with PC) +Earphone |

Remark:

- If there is one kind of accessories with different models, each one should be applied throughout the compliance test respectively, however, only the worst case will be recorded in this report.
- If EUT has more than one typical operation, only the worst test mode will be recorded in this report.

Traffic Mode:

When the EUT state is switched on and with Radio Resource Control (RRC) connection established.

Idle Mode:

When the EUT state is switched on but without Radio Resource Control (RRC) connection.

Worst Case:

1) Radiated Emission

Adapter (Model: HW-050200U01, SN: B78697J4J03533) + Charging +Camera On +Earphone +idle the result is the worst (30MHz~1GHz).

Adapter (Model: HW-050200U02, SN: K95501J3N00026) + Charging +Camera On +Earphone +idle the result is the worst (1GHz~18GHz).

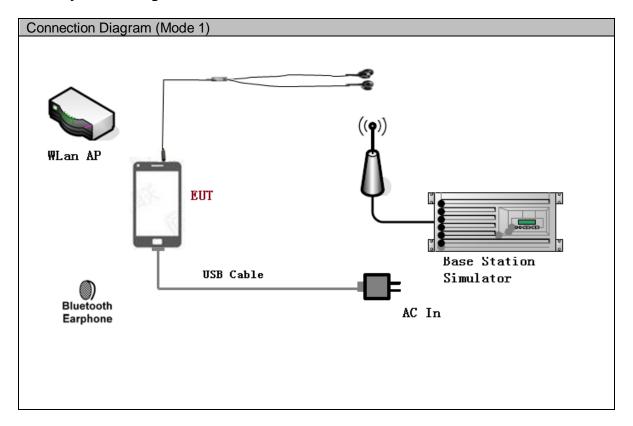
Adapter (Model: HW-050200U02, SN: B95532J5T00018) + Charging +Camera On +Earphone +idle the result is the worst (18GHz~26.5GHz).

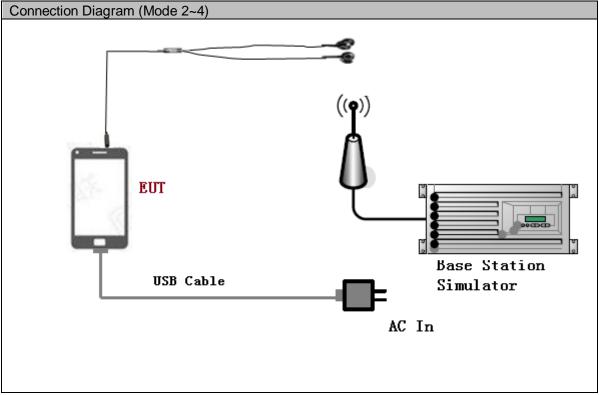
2) Conducted Emission

Adapter (Model: HW-050200U02, SN: B95532J5T00018) + Charging +Video Playing +Earphone +idle the result is the worst.

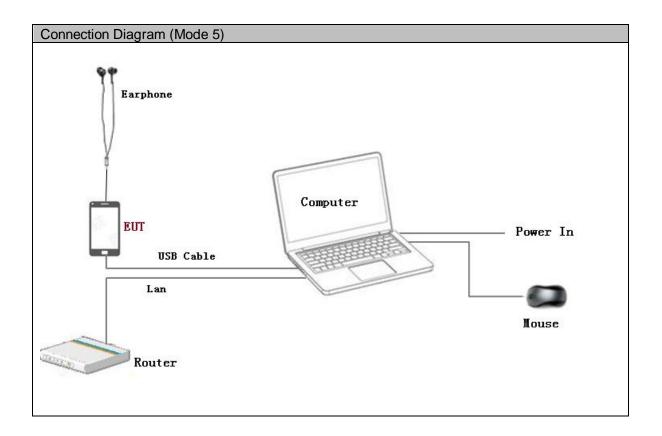


3.2 Test System Configuration











3.3 Cables Used during Test

| Cable | Quantity | Length | Type of Cable |
|----------|----------|--------|---------------|
| USB | 1 | <3m | Shielded |
| Earphone | 1 | <3m | Unshielded |

3.4 Associated Equipment Used during Test

| Name | Model | Manufact urer | S/N | Calibrated Deadline | Cal interval |
|----------------------------------|-----------|------------------|-----------------|------------------------|-----------------|
| Radio Communication Tester | CMU200 | R&S | 3608082535 | 2019-03-14 | 12 |
| Radio Communication Tester | MT8820C | Anritsu | A110518805 | 2019-05-07 | 12 |
| ThinkPad | S3-S431 | Lenovo | A140714638 | / | / |
| mouse | M-U0025-O | Lenovo | HS423HB22T B | / | / |



4 Electromagnetic Interference (EMI)

4.1 Radiated Disturbance 30MHz to 26.5GHz

4.1.1 Test Procedure

The test site semi-anechoic chamber has met the requirement of NSA tolerance 4dB according to the standards: ANCI C63.4: 2014. The test distance was 3m.The set-up and test methods were according to ANCI C63.4: 2014.

A preliminary scan and a final scan of the emissions were made from 30 MHz to 26.5 GHz by using test script of software; The emissions were measured using Quasi-Peak Detector (30MHz~1GHz) and AV/PK detector (above 1GHz). The maximal emission value was acquired by adjusting the antenna height, polarisation and turntable azimuth in accordance with the software setup. Normally, the height range of antenna was 1m to 4m. The azimuth range of turntable was 0°to 360°. The receiving antenna has two polarizations V and H.

Measurement bandwidth (RBW) for 30MHz to 1000 MHz: 120 kHz;

Measurement bandwidth (RBW) for 1000MHz to 26500 MHz: 1MHz;

EUT was configured in idle mode and the test performed at worst emission state.

4.1.2 Test setup

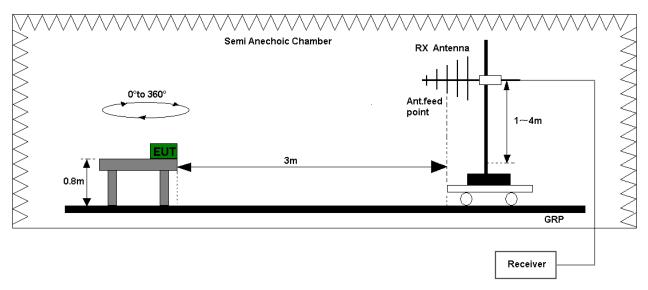


Figure 1. Test set-up of radiated disturbance(30MHz-1GHz)

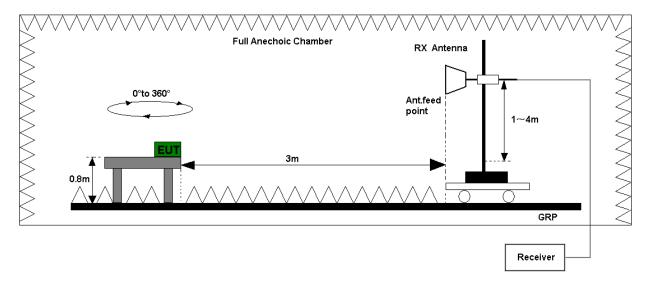


Figure 2. Test set-up of radiated disturbance(above 1GHz)



4.1.3 Test Results

The EUT has met the requirements for Radiated Emission of enclosure port. Refer to the section 7.1.1 of this report for test data.

| Test Limits (Class B) | | | | | | |
|-----------------------|----------------|----|--------------|------|--|--|
| Frequency of Emission | Radiated Limit | | | | | |
| (MHz) | Unit(µV/m) | | Unit(dBµV/m) | | | |
| 30-88 | 100 | | 40 | | | |
| 88-216 | 150 | | 4 | 43.5 | | |
| 216-960 | 200 | | | 46 | | |
| Above 960 | 500 | | | 54 | | |
| Above 1000 | AV | PK | AV | PK | | |
| | 500 5000 | | 54 | 74 | | |



4.2 Conducted Disturbance 0.15 MHz to 30MHz

4.2.1 Test Procedure

The Table-top EUT was placed upon a non-metallic table 0.8 m above the horizontal metal reference ground plane. EUT was connected to LISN and LISN was connected to reference Ground Plane. EUT was 80cm away from LISN. The set-up and test methods were according to ANCI C63.4: 2014 Conducted Disturbance at AC Port measurements were undertaken on the L and N Lines. The emissions were measured using a Quasi-Peak Detector and Average Detector.

EUT was communicated with the simulator through Air interface, the simulator controls the EUT to transmitter the maximum power which defined in specification of product. The EUT operated on the typical channel.

Measurement bandwidth (RBW) for 150 kHz to 30 MHz: 9 kHz;

The EUT was set in the shielded chamber and operated under nominal conditions.

4.2.2 Test Setup

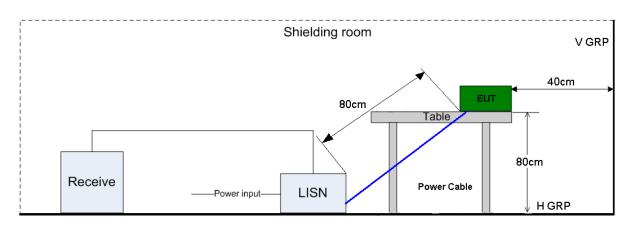


Figure 3. Test Set-up of conducted disturbance

4.2.3 Test Results

The EUT has met requirements for Conducted disturbance of power lines.

Refer to the section 7.2.1 of this report for test data.

| Test Limit of AC Power Port | | | | | |
|-----------------------------|----------------|-----------|--|--|--|
| Frequency range | 150kHz ~ 30MHz | | | | |
| Fraguesay | Voltage limits | | | | |
| Frequency | QP (dBμV) | AV (dBμV) | | | |
| 0.15MHz~0.5MHz 66-56 | | 56-46 | | | |
| 0.5MHz-5MHz | 56 | 46 | | | |
| 5MHz~30MHz | 60 | 50 | | | |



5 Main Test Instruments

| | Main Test Equipments | | | | | | | | | | |
|------------------|----------------------|-----------------------------|------------|-------|--------------|------------------|---------|------------------------|-----------------|--------------|----|
| Test item | Ins | Test trument | М | odel | S/N | Manufa er | ctur | Calibrated Deadline | Cal interval | | |
| | | MI Test eceiver | ESU26 | | 100150 | R&S | | Jan.19, 2019 | 12 | | |
| | | oadband Intenna | VULB 9163 | | 9163-491 | SCHWARZB ECK | | Mar.28, 2019 | 24 | | |
| RE | _ | n Antenna 1-18G) | HF906 | | 100683 | R&S | | Mar.28, 2019 | 24 | | |
| | | n Antenna 3-26.5G) | ETS 3160-9 | | 5140299 | ETS- LINDGREN | | Jul.19, 2019 | 24 | | |
| | А | mplifier | SCU-40 | | 10016 | R&S | | May.14, 2019 | 12 | | |
| | | EMI Test receiver | | SCI | 101163 | R&S | | Jan.18, 2019 | 12 | | |
| CE | _ | Artificial Mains Network | | /4200 | 100134 | R&S | | May.07, 2019 | 12 | | |
| | _ | cial Mains letwork | EN | V216 | 100382 | R&S | | R&S | | May.07, 2019 | 12 |
| | Software Information | | | | | | | | | | |
| Test Item Softwa | | Software N | Name | | Manufacturer | | Version | | | | |
| RE | | EMC3 | 32 | | R&S | | V9.25.0 | | | | |
| CE | | EMC3 | 2 | | R&S | | V9.25.0 | | | | |

6 System Measurement Uncertainty

For a 95% confidence level, the measurement expanded uncertainties for defined systems, in accordance with the recommendations of ISO 17025 were:

| System Measurement Uncertainty | | | | | | | | |
|--------------------------------|----------------------------|---------------|--|--|--|--|--|--|
| Items Extended Uncertainty | | | | | | | | |
| RE(30MHz-1GHz) | Field strength (dBµV/m) | U=5.24dB; k=2 | | | | | | |
| RE(1GHz-18GHz) | Field strength (dBµV/m) | U=4.94dB; k=2 | | | | | | |
| RE(18GHz-26.5GHz) | Field strength (dBµV/m) | U=4.24dB; k=2 | | | | | | |
| CE | Disturbance Voltage (dBµV) | U=2.3dB; k=2 | | | | | | |



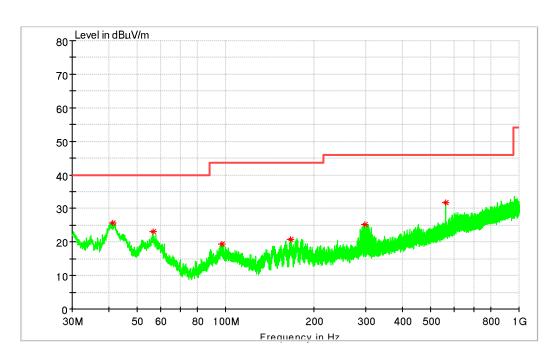
7 Test Data and Graph

Only the worst test results were shown

7.1 Radiated Disturbance

7.1.1 30MHz~1GHz

Test Mode 2:Charging+Camera On+ Earphone +idle



MEASUREMENT RESULT: QP Detector

| Frequency | Level | Transd | Limit | Margin | Height | Azimuth | |
|------------|--------|--------|--------|--------|--------|---------|--------------|
| MHz | dBµV/m | dB | dBµV/m | dB | cm | deg | Polarisation |
| 41.203500 | 25.76 | 14.4 | 40.0 | 14.24 | 101 | 316 | V |
| 56.432500 | 23.01 | 14.0 | 40.0 | 16.99 | 115 | 7 | V |
| 97.124000 | 19.41 | 14.3 | 43.5 | 24.09 | 136 | 86 | Н |
| 166.236500 | 20.77 | 10.7 | 43.5 | 22.73 | 101 | 57 | V |
| 298.835500 | 25.20 | 15.4 | 46.0 | 20.80 | 140 | 49 | Н |
| 561.608500 | 31.69 | 21.1 | 46.0 | 14.31 | 123 | 144 | V |

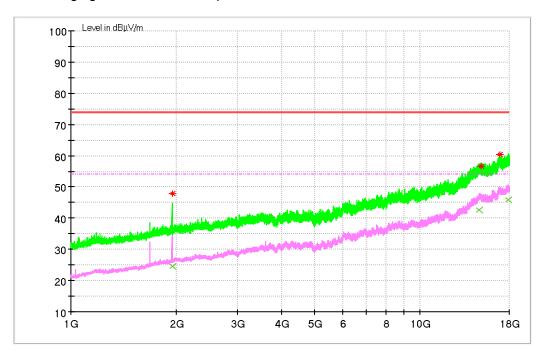
Note:

Level =Reading level by receiver + Transd (Antenna factor + cable loss – preamplifier gain) The reading level is calculated by software which is not shown in the sheet.



7.1.2 1GHz~18GHz

Test Mode 2: Charging + Camera On +Earphone +idle



MEASUREMENT RESULT: PK Detector

| Frequency | Level | Transd | Limit | Margin | Height | Azimuth | Polarisation |
|--------------|--------|--------|--------|--------|--------|---------|--------------|
| MHz | dBµV/m | dB | dBµV/m | dB | cm | deg | Polarisation |
| 1948.526667 | 47.78 | -9.8 | 74 | 26.22 | 100 | 159 | Н |
| 14968.946667 | 56.61 | 17.5 | 74 | 17.39 | 200 | 9 | V |
| 16893.469333 | 60.27 | 21.0 | 74 | 13.73 | 126 | 254 | Н |

MEASUREMENT RESULT: AV Detector

| Frequency MHz | Level dBµV/m | Transd dB | Limit dBµV/m | Margin dB | Height cm | Azimuth deg | Polarisation |
|------------------|-----------------|--------------|-----------------|--------------|-----------|-------------|--------------|
| 1948.547333 | 24.50 | -9.8 | 54 | 29.50 | 112 | 172 | Н |
| 14744.756666 | 42.60 | 17.5 | 54 | 11.40 | 193 | 22 | V |
| 17915.555333 | 45.95 | 21.7 | 54 | 8.05 | 200 | 227 | Н |

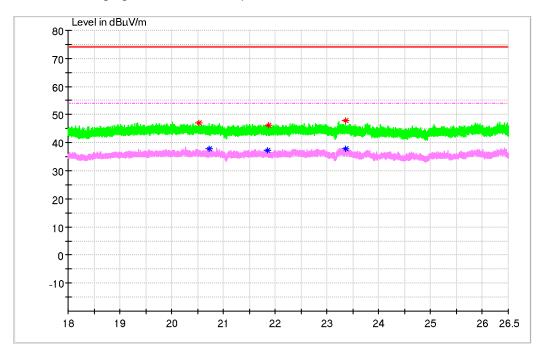
Note:

Level =Reading level by receiver + Transd (Antenna factor + cable loss – preamplifier gain) The reading level is calculated by software which is not shown in the sheet.



7.1.3 18GHz~26.5GHz

Test Mode 2:Charging+Camera On+ Earphone +idle



MEASUREMENT RESULT: PK Detector

| Frequency MHz | Level dBµV/m | Transd dB | Limit dBµV/m | Margin dB | Height cm | Azimuth deg | Polarisation |
|------------------|-----------------|--------------|-----------------|--------------|-----------|----------------|--------------|
| 20520.675 | 46.92 | -4.7 | 74 | 27.08 | 126 | 76 | V |
| 21873.025 | 46.28 | -4 | 74 | 27.72 | 172 | 296 | V |
| 23358.4 | 47.99 | -3.1 | 74 | 26.01 | 120 | 136 | V |

MEASUREMENT RESULT: AV Detector

| Frequency MHz | Level dBµV/m | Transd dB | Limit dBµV/m | Margin dB | Height cm | Azimuth Deg | Polarisation |
|------------------|-----------------|--------------|-----------------|--------------|--------------|----------------|--------------|
| 20715.325 | 37.93 | -4.7 | 54 | 16.07 | 142 | 52 | V |
| 21850.5 | 37.25 | -4 | 54 | 16.75 | 135 | 182 | V |
| 23360.525 | 37.71 | -3.1 | 54 | 16.29 | 155 | 353 | V |

Note:

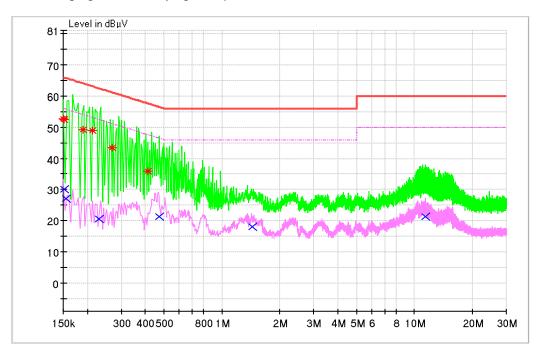
Level =Reading level by receiver + Transd (Antenna factor + cable loss – preamplifier gain) The reading level is calculated by software which is not shown in the sheet.



7.2 Conducted Disturbance

7.2.1 AC Port Test Data

Test Mode 3: Charging +Video Playing +Earphone +idle



MEASUREMENT RESULT: QP Detector

| ••• | WENGONE WENT NEGGET. QT Bolodol | | | | | | | | | |
|-----|---------------------------------|-------|------|--------|--------|-------|-----|--|--|--|
| | Frequency | Level | Line | Transd | Margin | Limit | PE | | | |
| | MHz | dΒμV | Line | dB | dB | dΒμV | PC | | | |
| | 0.150056 | 52.62 | L1 | 9.7 | 13.38 | 66.00 | FLO | | | |
| | 0.15117 | 52.33 | N | 9.7 | 13.6 | 65.93 | FLO | | | |
| | 0.190916 | 49.12 | L1 | 9.7 | 14.88 | 64.00 | FLO | | | |
| | 0.212437 | 48.85 | N | 9.7 | 14.26 | 63.11 | FLO | | | |
| | 0.270411 | 43.36 | N | 9.7 | 17.75 | 61.11 | FLO | | | |
| | 0.414817 | 35.99 | N | 9.7 | 21.56 | 57.55 | FLO | | | |

MEASUREMENT RESULT: AV Detector

| Frequency | Level | Lina | Transd | Margin | Limit | DE |
|-----------|-------|------|--------|--------|-------|-----|
| MHz | dΒμV | Line | dB | dB | dΒμV | PE |
| 0.152396 | 30.18 | N | 9.7 | 25.69 | 55.87 | FLO |
| 0.154794 | 27.03 | N | 9.7 | 28.71 | 55.74 | FLO |
| 0.228812 | 20.67 | N | 9.7 | 31.82 | 52.49 | FLO |
| 0.4713 | 21.30 | N | 9.7 | 25.19 | 46.49 | FLO |
| 1.441159 | 18.16 | N | 9.7 | 27.84 | 46.00 | FLO |
| 11.411412 | 21.39 | N | 10 | 28.61 | 50.00 | FLO |

-----END-----