

Report No.: ZR/2021/5004001

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FCC TEST REPORT

Application No.: ZR/2021/50040

Applicant: Great Talent Technology Limited

Address of Applicant 35F, HBC HuiLong Center Building-II Minzhi Street, Longhua, Shenzhen, P.R.

China

Manufacturer: Great Talent Technology Limited

Address of Manufacturer 35F, HBC HuiLong Center Building-II Minzhi Street, Longhua, Shenzhen, P.R.

China

EUT Description: smart phone Model No.: U696CL **Trade Mark: UMX**

FCC ID: 2ALZM-U696CL Standards: 47 CFR Part 2

> 47 CFR Part 22 subpart H 47 CFR Part 24 subpart E 47 CFR Part 27 subpart C 47 CFR Part 90 subpart S

Date of Receipt: 2021/7/2

Date of Test: 2021/7/2 to 2021/8/11

Date of Issue: 2021/8/11

Test Result: PASS *

In the configuration tested, the EUT detailed in this report complied with the standards specified above.

Authorized Signature:

Derek Yang Wireless Laboratory Manager



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Version 1

| Revision Record | | | | | | |
|--------------------------------------|--|------------|--|----------|--|--|
| Version Chapter Date Modifier Remark | | | | | | |
| 01 | | 2021-08-11 | | Original | | |
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| | | | | | | |

| Prepared By | Dee.Zheng | |
|-------------|------------------------|--|
| | (Dee Zheng) / Engineer | |
| Checked By | July | |
| | (Jim Huang) / Reviewer | |



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Test Summary 2

2.1 GSM850/UMTS Band 5 & LTE Band 5 / 26(824~849 MHz)

| Test Item | FCC Rule No. | Requirements | Test Result | Verdict | Test Lab* | | | | | | |
|---|---------------------|---|----------------------------|--|--------------|--|--|--|--|--|--|
| Effective (Isotropic) Radiated Power Output Data | §2.1046, §22.913 | FCC: ERP ≤ 7 W | Section 1 of Appendix B | Pass | А | | | | | | |
| Peak-Average Ratio | | Limit≤13 dB | Section 2 of Appendix B | Pass | А | | | | | | |
| Modulation Characteristics | §2.1047 | Digital modulation | Section 3 of Appendix B | Pass | А | | | | | | |
| Bandwidth | §2.1049 | OBW: No limit. EBW: No limit. | Section 4 of Appendix B | Pass | Α | | | | | | |
| Band Edges Compliance | §2.1051, §22.917 | ≤ -13 dBm/1%*EBW, in 1 MHz bands immediately outside and adjacent to the frequency block. | Section 5 of Appendix B | Pass | А | | | | | | |
| Spurious Emission at Antenna Terminals | §2.1051, §22.917 | FCC: ≤ -13 dBm/100 kHz, from 9 kHz to 10th harmonics but outside authorized operating frequency ranges. | Section 6 of Appendix B | Pass | Α | | | | | | |
| Field Strength of Spurious Radiation | §2.1053, §22.917 | FCC: ≤ -13 dBm/100 kHz. | Section 7 of Appendix B | Pass | В | | | | | | |
| Frequency Stability | §2.1055, §22.355 | ≤ ±2.5ppm. | Section 8 of Appendix B | Pass | А | | | | | | |
| Remark: For the ve | erdict, the "N/A" | denotes "not applicable", the "N/T" den | otes "not tested | Remark: For the verdict, the "N/A" denotes "not applicable", the "N/T" denotes "not tested". | | | | | | | |

2.2 GSM 1900/UMTS Band 2 /LTE Band 2 /25

| Test Item | FCC Rule No. | Requirements | Test Result | Verdict | Test Lab* |
|---|---------------------|----------------------------------|----------------------------|---------|--------------|
| Effective (Isotropic) Radiated Power Output Data | §2.1046, §24.232 | EIRP ≤ 2 W | Section 1 of Appendix B | Pass | А |
| Peak-Average Ratio | §2.1046, §24.232 | Limit≤13 dB | Section 2 of Appendix B | Pass | А |
| Modulation Characteristics | §2.1047 | Digital modulation | Section 3 of Appendix B | Pass | А |
| Bandwidth | §2.1049 | OBW: No limit. EBW: No limit. | Section 4 of Appendix B | Pass | А |



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| Band Edges Compliance | §2.1051, §24.238 | ≤ -13 dBm/1%*EBW, in 1 MHz bands immediately outside and adjacent to the frequency block. | Section 5 of Appendix B | Pass | А | |
|--|---------------------|--|----------------------------|------|---|--|
| Spurious Emission at Antenna Terminals | §2.1051, §24.238 | ≤ -13 dBm/1 MHz, from 9 kHz to 10 th harmonics but outside authorized operating frequency ranges. | Section 6 of Appendix B | Pass | A | |
| Field Strength of Spurious Radiation | §2.1053, §24.238 | ≤ -13 dBm/1 MHz. | Section 7 of Appendix B | Pass | В | |
| Frequency Stability | §2.1055, §24.235 | ≤ ±2.5 ppm. | Section 8 of Appendix B | Pass | А | |
| Remark: For the verdict, the "N/A" denotes "not applicable", the "N/T" denotes "not tested". | | | | | | |

2.3 UMTS Band 4 /LTE Band 4 /66

| Test Item | FCC Rule No. | Requirements | Test Result | Verdict | Test Lab* | |
|--|-----------------------|--|----------------------------|---------|--------------|--|
| Effective (Isotropic) Radiated Power Output Data | §2.1046, §27.50(d) | EIRP ≤ 1 W | Section 1 of Appendix B | Pass | А | |
| Peak-Average Ratio | §2.1046, §27.50(d) | Limit≤13 dB | Section 2 of Appendix B | Pass | А | |
| Modulation Characteristics | §2.1047 | Digital modulation | Section 3 of Appendix B | Pass | А | |
| Bandwidth | §2.1049 | OBW: No limit. EBW: No limit. | Section 4 of Appendix B | Pass | А | |
| Band Edges Compliance | §2.1051, §27.53(h) | ≤ -13 dBm/1%*EBW, in 1 MHz bands immediately outside and adjacent to the frequency block. | Section 5 of Appendix B | Pass | А | |
| Spurious Emission at Antenna Terminals | §2.1051, §27.53(h) | ≤ -13 dBm/1 MHz, from 9 kHz to 10 th harmonics but outside authorized operating frequency ranges. | Section 6 of Appendix B | Pass | А | |
| Field Strength of Spurious Radiation | §2.1053, §27.53(h) | ≤ -13 dBm/1 MHz. | Section 7 of Appendix B | Pass | В | |
| Frequency Stability | §2.1055, §27.54 | ≤ ±2.5 ppm. | Section 8 of Appendix B | Pass | А | |
| Remark: For the verdict, the "N/A" denotes "not applicable", the "N/T" denotes "not tested". | | | | | | |

2.4 LTE Band 41

| Test Item | FCC Rule No. | Requirements | Test Result | Verdict | Test Lab* |
|---|-----------------------|--------------|----------------------------|---------|--------------|
| Effective (Isotropic) Radiated Power Output Data | §2.1046, §27.50(h) | EIRP ≤ 2W | Section 1 of Appendix B | Pass | Α |



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|--|------------------------|---|----------------------------------|---------------|---|
| Peak-Average Ratio | §27.50(a) | ≤13 dB | Section 2 of Appendix B | Pass | А |
| Modulation Characteristics | §2.1047 | Digital modulation | Section 3 of Appendix B | Pass | А |
| Bandwidth | §2.1049 | OBW: No limit. EBW: No limit. | Section 4 of Appendix B | Pass | А |
| Band Edges Compliance | §2.1051, §27.53(m4) | For mobile digital stations, the attenuation factor shall be not less than 40 + 10 log (P) dB on all frequencies between the channel edge and 5 megahertz from the channel edge, 43 + 10 log (P) dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and 55 + 10 log (P) dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(6) of this section. | Section 5 of Appendix B | Pass | А |
| Spurious Emission at Antenna Terminals | §2.1051, §27.53(m) | Channel Edge -25dBm/ 1 MHz 1 MHz 1 MHz 9 kHz 95 MHz X MHz 10th harmonics X=Max {6MHz, EBW} | Section 6 of Appendix B | Pass | А |
| Field Strength of Spurious Radiation | §2.1053, §27.53(m) | Channel Edge -25dBm/ 1 MHz 1 MHz 1 MHz 9 kHz 95 MHz X MHz 10th harmonics X=Max {6MHz, EBW} | Section 7 of Appendix B | Pass | В |
| Frequency Stability | §2.1055, §27.54 | Within authorized bands of operation/frequency block. | Section 8 of Appendix B | Pass | А |
| Remark: For the verdict, the "N/A" denotes "not applicable", the "N/T" denotes "not tested". | | | | | |

2.5 LTE Band 12

| _ | | | | | |
|---|-----------|-----------------|----------------------------|---------|------|
| Test Item | FCC Rule | Requirements | Test Result | Verdict | Test |
| | No. | | | | Lab* |
| Effective (Isotropic) Radiated Power Output Data | §27.50(c) | FCC: ERP ≤ 3 W. | Section 1 of Appendix B | Pass | Α |



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| 1 agc. 0 01 +0 | | | | | | | |
|---|--|---|----------------------------|------|---|--|--|
| Peak-Average Ratio | §2.1046, §27.50(c) | Limit≤13 dB | Section 2 of Appendix B | Pass | А | | |
| Modulation Characteristics | §2.1047 | Digital modulation | Section 3 of Appendix B | Pass | А | | |
| Bandwidth | §2.1049 OBW: No limit. EBW: No limit. | | Section 4 of Appendix B | Pass | А | | |
| Band Edges Compliance | §2.1051, §27.53(g) | ≤ -13 dBm/1%*EBW, in 1 MHz bands immediately outside and adjacent to the frequency block. | Section 5 of Appendix B | Pass | А | | |
| Spurious Emission at Antenna Terminals | §2.1051, §27.53(g) | FCC: ≤ -13 dBm/100 kHz, from 9 kHz to 10 th harmonics but outside authorized operating frequency ranges. | Section 6 of Appendix B | Pass | А | | |
| Field Strength of Spurious Radiation | §2.1053, §27.53(g) | FCC: ≤ -13 dBm/100 kHz. | Section 7 of Appendix B | Pass | В | | |
| Frequency Stability | §2.1055, §27.54 | ≤ ±2.5ppm. | Section 8 of Appendix B | Pass | А | | |
| Remark: For the ve | Remark: For the verdict, the "N/A" denotes "not applicable", the "N/T" denotes "not tested". | | | | | | |

2.6 LTE Band 26(814~824 MHz)

| Test Item | FCC Rule No. | Requirements | Test Result | Verdict | Test Lab* |
|--|---------------------|--|----------------------------|---------|--------------|
| Transmitter Conducted Power Output | §2.1046, §90.635 | < 100 W. | Section 1 of Appendix | Pass | А |
| Peak-Average Ratio | | FCC: Limit≤13 dB | Section 2 of Appendix B | Pass | А |
| Modulation Characteristics | §2.1047 | Digital modulation | Section 3 of Appendix | Pass | А |
| Bandwidth | §2.1049 | OBW: No limit. EBW: No limit. | Section 4 of Appendix | Pass | Α |
| Emission Mask | §2.1051 § 90.691 | For any frequency removed from the EA licensee's frequency block by up to and including 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least 116 Log10(f/6.1) decibels or 50+10Log10(P) decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is | Section 5 of Appendix B | Pass | А |



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| | | greater than 12.5 kHz. | | | |
|---|--|--|---------------------------------------|------|---|
| Spurious Emission at Antenna Terminals | §2.1051, §90.691 | < 43 + 10Log10(P[Watts]) for all out-of-band emissions | Section 6 of Appendix B | Pass | Α |
| Field Strength of Spurious Radiation | §2.1053, §90.691 | < 43 + 10Log10(P[Watts]) for all out-of-band emissions | Refer to report No.:SZCR2107021924 | Pass | А |
| Frequency Stability | §2.1055, §90.213 | < ±2.5ppm. | Section 8 of Appendix B | Pass | Α |
| Remark: For the | Remark: For the verdict, the "N/A" denotes "not applicable", the "N/T" denotes "not tested". | | | | |



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2.7 LTE Band 71

| Test Item | FCC Rule No. | Requirements | Test Result | Verdict | Test Lab* |
|---|-----------------------|--|----------------------------|---------|--------------|
| Effective (Isotropic) Radiated Power Output Data | §2.1046, §27.50(c) | EIRP ≤ 3 W | Section 1 of Appendix B | Pass | А |
| Peak-Average Ratio | §2.1046, | Limit≤13 dB | Section 2 of Appendix B | Pass | А |
| Modulation Characteristics | §2.1047 | Digital modulation | Section 3 of Appendix B | Pass | А |
| Bandwidth | §2.1049 | OBW: No limit. EBW: No limit. | Section 4 of Appendix B | Pass | А |
| Band Edges Compliance | §2.1051, §27.53(g) | ≤ -13 dBm/1%*EBW, in 1 MHz bands immediately outside and adjacent to the frequency block. | Section 5 of Appendix B | Pass | А |
| Spurious Emission at Antenna Terminals | §2.1051, §27.53(g) | ≤ -13 dBm/1 MHz, from 9 kHz to 10 th harmonics but outside authorized operating frequency ranges. | Section 6 of Appendix B | Pass | Α |
| Field Strength of Spurious Radiation | §2.1053, §27.53(g) | ≤ -13 dBm/1 MHz. | Section 7 of Appendix B | Pass | В |
| Frequency Stability | §2.1055, §27.54 | within the authorized bands of operation. denotes "not applicable", the "N/T" denotes | Section 8 of Appendix B | Pass | А |

Remark: All test were performed by Lab A and B.

Lab A SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch Lab B SGS-CSTC STANDARDS TECHNICAL SERVICES (XI 'AN) CO., LTD.



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General Information 3

3.1 Details of Client

| Applicant: | Great Talent Technology Limited |
|-------------------------|--|
| Address of Applicant | 35F,HBC HuiLong Center Building-II Minzhi Street,Longhua, Shenzhen, P.R. China |
| Manufacturer: | Great Talent Technology Limited |
| Address of Manufacturer | 35F,HBC HuiLong Center Building-II Minzhi Street,Longhua, Shenzhen, P.R. China |

3.2 Test Location

Lab A:

| Company: | SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch | | |
|----------------|---|--|--|
| Address: | o. 1 Workshop, M-10, Middle section, Science & Technology Park, henzhen, Guangdong, China | | |
| Post code: | 518057 | | |
| Test engineer: | Dee Zheng,Swing Hu,Jack Huang | | |

Lab B:

| Company: | SGS-CSTC STANDARDS TECHNICAL SERVICES (XI 'AN) CO., LTD. | | | |
|----------------|--|--|--|--|
| Address: | 1/F, Unit D, Building 1, Kanghong Orange Technology Park, No.137, Keyuan 3rd Road, Fengdong New City, Xi'an, Shaanxi China | | | |
| Post code: | 710086 | | | |
| Test engineer: | Leah Chen,Ken Liu,Andy Yao | | | |



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3.3 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

Lab A:

A2LA (Certificate No. 3816.01)

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 3816.01.

VCCI

The 3m Fully-anechoic chamber for above 1GHz, 10m Semi-anechoic chamber for below 1GHz, Shielded Room for Mains Port Conducted Interference Measurement and Telecommunication Port Conducted Interference Measurement of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-20026, R-14188, C-12383 and T-11153 respectively.

• FCC -Designation Number: CN1178

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized as an accredited testing laboratory.

Designation Number: CN1178. Test Firm Registration Number: 406779.

Innovation, Science and Economic Development Canada

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0006.

IC#: 4620C.

Lab B:

A2LA (Certificate No. 4854.01)

SGS-CSTC STANDARDS TECHNICAL SERVICES (XI 'AN) CO., LTD. is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 4854.01.

FCC-Designation Number: CN1271.



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3.4 General Description of EUT

| EUT Description: | smart phone |
|-------------------|--------------------------------|
| Model No.: | U696CL |
| Trade Mark: | UMX |
| Hardware Version: | U696CL_V1.0 |
| Software Version: | UMX_U696CL_V11.01.01.01.061711 |
| Sample Type: | ☑ Portable Device, ☐Module |
| Antenna Type: | ☐ External, ☑ Integrated |
| | |
| | GSM850: -0.46dBi; |
| | GSM1900:1.21dBi; |
| | WCDMA Band II: 1.21dBi; |
| | WCDMA Band IV:0.27dB;i |
| | WCDMA Band V:-0.46dBi; |
| | LTE Band 2:1.21dBi; |
| Antenna Gain*: | LTE Band 4:0.27dBi; |
| | LTE Band 5:-0.46dBi; |
| | LTE Band 12:-3.18dBi; |
| | LTE Band 25:1.21dBi; |
| | LTE Band 26:-0.46dBi; |
| | LTE Band 41:2.72dBi; |
| | LTE Band 66:0.27dBi; |
| | LTE Band 71:-3.15dBi; |

Remark:

*Since the above data and/or information is provided by the applicant relevant results or conclusions of this report are only made for these data and/or information, SGS is not responsible for the authenticity, integrity and results of the data and information and/or the validity of the conclusion.



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3.5 Test Mode

| Test Mode | Test Modes Description |
|-----------|---------------------------------------|
| GSM/TM1 | GSM system, GSM/GPRS, GMSK modulation |
| GSM/TM2 | GSM system, EGPRS, 8PSK modulation |
| UMTS/TM1 | UMTS system, WCDMA, QPSK modulation |
| LTE/TM1 | LTE system, QPSK modulation |
| LTE/TM2 | LTE system, 16QAM modulation |

Remark: The test mode(s) are selected according to relevant radio technology specifications.

3.6 Test Environment

| Operating Environment: | | |
|------------------------|------------|-------|
| Humidity: | 50 % | % RH |
| Atmospheric Pressure: | 101.30 KPa | |
| Temperature | NT | 25 °C |
| | LV | 3.65V |
| Voltage: | NV | 3.8V |
| | HV | 4.35V |

Remark: LV= lower extreme test voltage; NV= nominal voltage HV= upper extreme test voltage; NT= normal temperature





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3.7 Technical Specification

| Characteristics | Description | | | | |
|-----------------------------|----------------------------------|------------------|----------------------------|------------------------------------|--|
| | ⊠ GSM | | | | |
| Radio System Type | □ UMTS | | | | |
| | | | | | |
| | Band | TX | | RX | |
| | GSM850 | 824 to 8 | 49 MHz | 869 to 894 MHz | |
| | GSM1900 | 1850 to | 1910 MHz | 1930 to 1990 MHz | |
| | UMTS Band II | 1850 to | 1910 MHz | 1930 to 1990 MHz | |
| | UMTS Band IV | 1710 to | 1755 MHz | 2110 to 2155 MHz | |
| | UMTS Band V | 824 to 8 | 49 MHz | 869 to 894 MHz | |
| | LTE Band 2 | 1850 to | 1910 MHz | 1930 to 1990 MHz | |
| | LTE Band 4 | 1710 to | 1755 MHz | 2110 to 2155 MHz | |
| Supported Frequency Range | LTE Band 5 | 824 to 8 | 849 MHz | 869 to 894 MHz | |
| Supported Frequency Range | LTE Band 12 | 699 to 7 | 16 MHz | 729 to 746 MHz | |
| | LTE Band 25 | 1850 to | 1915MHz | 1930 to 1995 MHz | |
| | LTE Band 26 (814 to 824 MHz) | 814 to 824MHz | | 859 to 869 MHz | |
| | LTE Band 26 (824 to 849 MHz) | 824 to 849 MHz | | 869 to 894 MHz | |
| | LTE Band 41 | 2496 to 2690MHz | | 2496 to 2690MHz | |
| | LTE Band 66 | 1710 to | 1780 MHz | 2110 to 2200 MHz | |
| | LTE Band 71 | 663 to 6 | 98 MHz | 617 to 652 MHz | |
| | GSM system: | <u>⊠</u> 0.2 MHz | | 1 | |
| | UMTS system: LTE Band 2 | | | 3 MHz; ⊠5 MHz; ⊠ MHz, ⊠20 MHz | |
| | LTE Band 4 | | | | |
| | LTE Band 5 | | | | |
| Supported Channel Bandwidth | LTE Band 12 | | | | |
| | LTE Band 25 | | 10 MHz; ⊠15 | 3 MHz; ⊠5 MHz; ⊠ MHz, ⊠20 MHz | |
| | LTE Band 26(814-824) | | | | |
| | LTE Band 26(824-849) | | | | |
| | LTE Band41 | | <u>⊠</u> 5 MHz; <u>⊠</u> 1 | 0 MHz; ⊠15 MHz, ⊠ | |



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|-----------------------------|-------------------------------|--------------------------------------|------------------------------------|
| | | | 20 MHz |
| | LTE Band66 | | |
| | LTE Band71 | | |
| | Note: WCDMA supports HSUPA, H | | SDPA, DS-HSDPA, but only the worst |
| | case was tested and the | data displaye | ed in this report. |
| Characteristics | Description | | |
| | GSM850 | 247KGXW | V; 244KG7W |
| | GSM1900 | _ | V; 245KG7W |
| | UMTS Band II | 4M14F9W | , |
| | UMTS Band IV | 4M15F9W | |
| | UMTS Band V | 4M14F9W | |
| | OWTO Band V | | ;;1M10W7D; |
| | | |);2M69W7D; |
| | | |);4M48W7D; |
| | LTE Band 2 | |);8M91W7D; |
| | | |);13M4W7D; |
| | | |);17M9W7D; |
| | | |);1M10W7D; |
| | | |);2M69W7D; |
| | | |);4M48W7D; |
| | LTE Band 4 | |);8M95W7D; |
| | | |);13M4W7D; |
| | | |);17M9W7D; |
| | | |);1M10W7D; |
| Designation of Emissions | | | |
| (Remark: the necessary | LTE Band 5 | 2M70G7D;2M69W7D; 4M48G7D;4M47W7D; | |
| bandwidth of which is the | | |);8M91W7D; |
| worst value from the | | |);1M10W7D; |
| measured occupied | | |);2M69W7D; |
| bandwidths for each type of | LTE Band 12 | |);4M48W7D; |
| channel bandwidth | | |);8M91W7D; |
| configuration.) | | | 0;1M10W7D; |
| | | |);2M69W7D; |
| | | |);4M47W7D; |
| | LTE Band 25 | |);8M95W7D; |
| | | |);13M4W7D; |
| | | |);17M9W7D; |
| | | |);1M10W7D; |
| | LTE Band 26 | |);2M69W7D; |
| | (814-824) | |);4M47W7D; |
| | | |);8M91W7D; |
| | | |);1M10W7D; |
| | LTE Bond 26 | |);2M70W7D; |
| | LTE Band 26 | |);4M47W7D; |
| | (824-849) | |);8M92W7D; |
| | | |);13M5W7D; |
| | | |);4M47W7D; |
| | LTE Band 41 | |);8M91W7D; |
| | | |);13M5W7D; |



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| | | 17M9G7D;17M9W7D; |
|--|--------------|------------------|
| | | 1M09G7D;1M10W7D; |
| | | 2M70G7D;2M69W7D; |
| | LTE Band 66 | 4M48G7D;4M48W7D; |
| | LIE Band 60 | 8M91G7D;8M91W7D; |
| | | 13M5G7D;13M5W7D; |
| | | 18M0G7D;17M9W7D; |
| | | 4M47G7D;4M48W7D; |
| | LTC Donal 74 | 8M93G7D;8M91W7D; |
| | LTE Band 71 | 13M5G7D;13M5W7D; |
| | | 17M9G7D;17M9W7D; |



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3.8 Test Frequencies

| Test Mode | TX / RX | RF Channel | | | | |
|-----------|---------|-------------|-------------|-------------|--|--|
| rest Mode | IA/NA | Low (L) | Middle (M) | High (H) | | |
| | TX | Channel 128 | Channel 190 | Channel 251 | | |
| GSM850 | IA | 824.2MHz | 836.6 MHz | 848.8 MHz | | |
| | DV | Channel 128 | Channel 190 | Channel 251 | | |
| | RX | 869.2 MHz | 881.6 MHz | 893.8 MHz | | |

| Test Mode | TX / RX | RF Channel | | | | |
|------------|---------|-------------|-------------|-------------|--|--|
| I est Mode | IA/IX | Low (L) | Middle (M) | High (H) | | |
| | TX | Channel 512 | Channel 661 | Channel 810 | | |
| GSM1900 | | 1850.2MHz | 1880.0 MHz | 1909.8 MHz | | |
| GSIVIT900 | RX | Channel 512 | Channel 661 | Channel 810 | | |
| | KΛ | 1930.2 MHz | 1960.0 MHz | 1989.8 MHz | | |

| Test Mode | TX / RX | RF Channel | | | | |
|---------------|---------|--------------|--------------|--------------|--|--|
| 1 est Mode | IA/NA | Low (L) | Middle (M) | High (H) | | |
| | TX | Channel 9262 | Channel 9400 | Channel 9538 | | |
| MCDMA Bond II | IA | 1852.4 MHz | 1880.0 MHz | 1907.6 MHz | | |
| WCDMA Band II | DV | Channel 9662 | Channel 9800 | Channel 9938 | | |
| | RX | 1932.4 MHz | 1960.0 MHz | 1987.6 MHz | | |

| Test Mode | TX / RX | | RF Channel | |
|------------------|---------|--------------|--------------|--------------|
| 1 est Mode | IA/IX | Low (L) | Middle (M) | High (H) |
| | | Channel 1312 | Channel 1413 | Channel 1513 |
| WCDMA Band IV | TX | 1712.4MHz | 1732.6 MHz | 1752.6 MHz |
| WCDIVIA Ballu IV | RX | Channel 1537 | Channel 1638 | Channel 1738 |
| | KΛ | 2112.4 MHz | 2132.6 MHz | 2152.6 MHz |

| Test Mode | TX / RX | RF Channel | | | | |
|---------------|---------|--------------|--------------|--------------|--|--|
| rest wode | 17/17 | Low (L) | Middle (M) | High (H) | | |
| | TX | Channel 4132 | Channel 4182 | Channel 4233 | | |
| WCDMA Band V | 1. | 826.4MHz | 836.4 MHz | 846.6 MHz | | |
| WCDIMA Band V | רא | Channel 4357 | Channel 4407 | Channel 4458 | | |
| | RX | 871.4 MHz | 881.4 MHz | 891.6 MHz | | |



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| Toot Mode | Dondwidth | TX / RX | | RF Channel | |
|------------|-----------|---------|---------------|---------------|---------------|
| Test Mode | Bandwidth | | Low (L) | Middle (M) | High (H) |
| | | | Channel 18607 | Channel 18900 | Channel 19193 |
| | | TX | 1850.7 MHz | 1880 MHz | 1909.3 MHz |
| | 1.4MHz | RX | Channel 607 | Channel 900 | Channel 1193 |
| | | KΛ | 1930.7 MHz | 1960 MHz | 1989.3 MHz |
| | | | Channel 18615 | Channel 18900 | Channel 19185 |
| | | TX | 1851.5 MHz | 1880 MHz | 1908.5 MHz |
| | 3MHz | RX | Channel 615 | Channel 900 | Channel 1185 |
| | | KΛ | 1931.5 MHz | 1960 MHz | 1988.5 MHz |
| | | | Channel 18625 | Channel 18900 | Channel 19175 |
| | 5MHz | TX | 1852.5 MHz | 1880 MHz | 1907.5 MHz |
| | | RX | Channel 625 | Channel 900 | Channel1175 |
| LTE Dond 0 | | | 1932.5 MHz | 1960 MHz | 1987.5 MHz |
| LTE Band 2 | | TX | Channel 18650 | Channel 18900 | Channel 19150 |
| | | | 1855 MHz | 1880 MHz | 1905 MHz |
| | 10MHz | RX | Channel 650 | Channel 900 | Channel 1150 |
| | | | 1935 MHz | 1960 MHz | 1985 MHz |
| | | | Channel 18675 | Channel 18900 | Channel 19125 |
| | | TX | 1857.5 MHz | 1880 MHz | 1902.5 MHz |
| | 15MHz | RX | Channel 675 | Channel 900 | Channel 1125 |
| | | 100 | 1937.5 MHz | 1960 MHz | 1982.5 MHz |
| Ţ | | | Channel 18700 | Channel 18900 | Channel 19100 |
| | | TX | 1860 MHz | 1880 MHz | 1900 MHz |
| | 20MHz | RX | Channel 700 | Channel 900 | Channel 1100 |
| | | ľΛ | 1940 MHz | 1960 MHz | 1980 MHz |



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| Toot Made | Bandwidth | TX / RX | | RF Channel | |
|------------|-----------|---------|---------------|---------------|---------------|
| Test Mode | Danawiain | IA/KA | Low (L) | Middle (M) | High (H) |
| | | | Channel 19957 | Channel 20175 | Channel 20393 |
| | | TX | 1710.7 MHz | 1732.5 MHz | 1754.3 MHz |
| | 1.4MHz | RX | Channel 1975 | Channel 2175 | Channel 2375 |
| | | KA | 2112.5 MHz | 2132.5MHz | 2152.5 MHz |
| | | | Channel 19965 | Channel 20175 | Channel 20385 |
| | | TX | 1711.5 MHz | 1732.5 MHz | 1753.5 MHz |
| | 3MHz | RX | Channel 2000 | Channel 2175 | Channel 2350 |
| | | KA | 2115 MHz | 2132.5MHz | 2150 MHz |
| | 5MHz | | Channel 19975 | Channel 20175 | Channel 20375 |
| | | TX | 1712.5 MHz | 1732.5 MHz | 1752.5 MHz |
| | | RX | Channel 1975 | Channel 2175 | Channel 2375 |
| LTC Dond 4 | | | 2112.5 MHz | 2132.5MHz | 2152.5 MHz |
| LTE Band 4 | 10MHz | TX | Channel 20000 | Channel 20175 | Channel 20350 |
| | | | 1715 MHz | 1732.5 MHz | 1750 MHz |
| | | RX | Channel 2000 | Channel 2175 | Channel 2350 |
| | | | 2115 MHz | 2132.5MHz | 2150 MHz |
| | | | Channel 20025 | Channel 20175 | Channel 20325 |
| | | TX | 1717.5 MHz | 1732.5 MHz | 1747.5 MHz |
| | 15MHz | RX | Channel 2025 | Channel 2175 | Channel 2325 |
| | | 107 | 2117.5 MHz | 2132.5MHz | 2147.5 MHz |
| | | | Channel 20050 | Channel 20175 | Channel 20300 |
| | | TX | 1720 MHz | 1732.5 MHz | 1745 MHz |
| | 20MHz | RX | Channel 2050 | Channel 2175 | Channel 2300 |
| | | KΛ | 2120 MHz | 2132.5MHz | 2145 MHz |

| Took Mode | Dondwidth | TV / DV | RF Channel | | |
|-------------|-----------|---------|---------------|---------------|---------------|
| Test Mode B | Bandwidth | TX / RX | Low (L) | Middle (M) | High (H) |
| | | | Channel 20407 | Channel 20525 | Channel 20643 |
| | | TX | 824.7 MHz | 836.5 MHz | 848.3 MHz |
| | 1.4MHz | RX | Channel 2407 | Channel 2525 | Channel 2643 |
| | | KΛ | 869.7 MHz | 881.5 MHz | 893.3 MHz |
| | | | Channel 20415 | Channel 20525 | Channel 20635 |
| | 3MHz | TX | 825.5 MHz | 836.5 MHz | 847.5 MHz |
| | | RX | Channel 2415 | Channel 2525 | Channel 2635 |
| LTE Davide | | | 870.5 MHz | 881.5 MHz | 892.5 MHz |
| LTE Band 5 | | TX | Channel 20425 | Channel 20525 | Channel 20625 |
| | | | 826.5 MHz | 836.5 MHz | 846.5 MHz |
| | 5MHz | DV | Channel 2425 | Channel 2525 | Channel 2625 |
| | | RX | 871.5 MHz | 881.5 MHz | 891.5 MHz |
| | | | Channel 20450 | Channel 20525 | Channel 20600 |
| | | TX | 829 MHz | 836.5 MHz | 844 MHz |
| | 10MHz | RX | Channel 2450 | Channel 2525 | Channel 2600 |
| | | IVA | 874 MHz | 881.5 MHz | 889 MHz |



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| Toot Made | Dondwidth | TV / DV | RF Channel | | |
|-------------|-----------|---------|---------------|---------------|---------------|
| Test Mode | Bandwidth | TX / RX | Low (L) | Middle (M) | High (H) |
| | | | Channel 23017 | Channel 23095 | Channel 23173 |
| | | TX | 699.7 MHz | 707.5 MHz | 715.3 MHz |
| | 1.4MHz | RX | Channel 5017 | Channel 5095 | Channel 5173 |
| | | KΛ | 729.7 MHz | 737.5 MHz | 745.3 MHz |
| | | | Channel 23025 | Channel 23095 | Channel 23165 |
| | 3MHz | TX | 700.5 MHz | 707.5 MHz | 714.5 MHz |
| | | RX | Channel 5025 | Channel 5095 | Channel 5165 |
| LTE Day 140 | | | 730.5 MHz | 737.5 MHz | 744.5 MHz |
| LTE Band 12 | | TX | Channel 23035 | Channel 23095 | Channel 23155 |
| | | | 701.5 MHz | 707.5 MHz | 713.5 MHz |
| | 5MHz | RX | Channel 5035 | Channel 5095 | Channel 5155 |
| | | | 731.5 MHz | 737.5 MHz | 743.5 MHz |
| | | | Channel 23060 | Channel 23095 | Channel 23130 |
| | | TX | 704 MHz | 707.5 MHz | 711 MHz |
| | 10MHz | RX | Channel 5060 | Channel 5095 | Channel 5130 |
| | | ľΛ | 734 MHz | 737.5 MHz | 741 MHz |

| Test Mode | Bandwidth | TX / RX | RF Channel | | |
|---------------|-----------|---------|---------------|---------------|---------------|
| i est ivioue | Danuwium | TX/TX | Low (L) | Middle (M) | High (H) |
| | | | Channel 26047 | Channel 26365 | Channel 26683 |
| | | TX | 1850.7 MHz | 1882.5 MHz | 1914.3 MHz |
| | 1.4MHz | RX | Channel 8047 | Channel 8365 | Channel 8683 |
| | | NΛ | 1930.7 MHz | 1962.5 MHz | 1994.3 MHz |
| | | | Channel 26055 | Channel 26365 | Channel 26675 |
| | | TX | 1851.5 MHz | 1882.5 MHz | 1913.5 MHz |
| | 3MHz | RX | Channel 8055 | Channel 8365 | Channel 8675 |
| | | NΛ | 1931.5 MHz | 1962.5 MHz | 1993.5 MHz |
| | 5MHz | | Channel 26065 | Channel 26365 | Channel 26665 |
| | | TX | 1852.5 MHz | 1882.5 MHz | 1912.5 MHz |
| | | RX | Channel 8065 | Channel 8365 | Channel 8665 |
| LTE Daniel OF | | | 1932.5 MHz | 1962.5 MHz | 1992.5 MHz |
| LTE Band 25 | 10MHz | TX | Channel 26090 | Channel 26365 | Channel 26640 |
| | | | 1855 MHz | 1882.5 MHz | 1910 MHz |
| | | RX | Channel 8090 | Channel 8365 | Channel 8640 |
| | | NA . | 1935 MHz | 1962.5 MHz | 1990 MHz |
| | | TX | Channel 26115 | Channel 26365 | Channel 26615 |
| | | | 1857.5 MHz | 1882.5 MHz | 1907.5 MHz |
| | 15MHz | RX | Channel 8115 | Channel 8365 | Channel 8615 |
| | | 100 | 1937.5 MHz | 1962.5 MHz | 1987.5 MHz |
| | | | Channel 26140 | Channel 26365 | Channel 26590 |
| | | TX | 1860 MHz | 1882.5 MHz | 1905 MHz |
| | 20MHz | RX | Channel 8140 | Channel 8365 | Channel 8590 |
| | | IVA | 1940 MHz | 1962.5 MHz | 1985 MHz |



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| Toot Mode | Dondwidth | TV / DV | RF Channel | | | |
|-------------|-----------|---------|---------------|---------------|---------------|--|
| Test Mode | Bandwidth | TX / RX | Low (L) | Middle (M) | High (H) | |
| | | | Channel 26697 | Channel 26740 | Channel 26783 | |
| | | TX | 814.7 MHz | 819 MHz | 823.3 MHz | |
| | 1.4MHz | RX | Channel 8697 | Channel 8740 | Channel 8783 | |
| | | NA | 859.7 MHz | 864MHz | 868.3 MHz | |
| | | | Channel 26705 | Channel 26740 | Channel 26775 | |
| | 3MHz | TX | 815.5 MHz | 819 MHz | 822.5 MHz | |
| | | RX | Channel 8705 | Channel 8740 | Channel 8775 | |
| LTE Band 26 | | | 860.5 MHz | 864MHz | 867.5 MHz | |
| (814-824) | 51411 | TX | Channel 26715 | Channel 26740 | Channel 26765 | |
| (5 : 1 = 1) | | | 816.5 MHz | 819 MHz | 821.5 MHz | |
| | 5MHz | RX | Channel 8715 | Channel 8740 | Channel 8755 | |
| | | | 861.5 MHz | 864MHz | 866.5 MHz | |
| | | | Channel 26740 | Channel 26740 | Channel 26740 | |
| | | TX | 819 MHz | 819 MHz | 819 MHz | |
| | 10MHz | RX | Channel 8740 | Channel 8740 | Channel 8740 | |
| | | ľΛ | 864MHz | 864MHz | 864MHz | |

| Took Mode | Donado de la | TV / DV | RF Channel | | | |
|----------------|--|-----------------|---------------|---------------|---------------|--|
| Test Mode | Bandwidth | TX / RX | Low (L) | Middle (M) | High (H) | |
| | | | Channel 26797 | Channel 26915 | Channel 27033 | |
| | | TX | 824.7 MHz | 836.5 MHz | 848.3 MHz | |
| | 1.4MHz | RX | Channel 8697 | Channel 8915 | Channel 9033 | |
| | | NΛ | 859.7 MHz | 881.5 MHz | 893.3 MHz | |
| | | | Channel 26805 | Channel 26915 | Channel 27025 | |
| | | TX | 825.5 MHz | 836.5 MHz | 847.5 MHz | |
| | 3MHz | RX | Channel 8805 | Channel 8915 | Channel 9025 | |
| | | IXX | 860.5 MHz | 881.5 MHz | 892.5 MHz | |
| | 5MHz | TX | Channel 26815 | Channel 26915 | Channel 27015 | |
| LTE Band26 | | | 826.5 MHz | 836.5 MHz | 846.5 MHz | |
| (824-849) | | RX | Channel 8815 | Channel 8915 | Channel 9015 | |
| (= : : : : :) | | | 871.5 MHz | 881.5 MHz | 891.5 MHz | |
| | | TX | Channel 26840 | Channel 26915 | Channel 26990 | |
| | | | 829 MHz | 836.5 MHz | 844 MHz | |
| | 10MHz | RX | Channel 8840 | Channel 8915 | Channel 8990 | |
| | | IXX | 874 MHz | 881.5 MHz | 889 MHz | |
| | | - >, | Channel 26865 | Channel 26915 | Channel 26965 | |
| | | TX | 831.5 MHz | 836.5 MHz | 841.5 MHz | |
| | 15MHz | RX | Channel 8865 | Channel 8915 | Channel 8965 | |
| | | IXX | 876.5 MHz | 881.5 MHz | 886.5 MHz | |



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| Test Mode | Bandwidth | TX / RX | RF Channel | | | |
|-------------|-------------|---------|---------------|--------------|---------------|--|
| rest Mode | Dariuwiulii | IA/KA | Low (L) | Middle (M) | High (H) | |
| | | | Channel 39715 | Channel40640 | Channel 41565 | |
| | 5MHz | TX / RX | 2502.5 MHz | 2595 MHz | 2687.5 MHz | |
| | | | Channel 39740 | Channel40640 | Channel 41540 | |
| LTE Band 41 | 10MHz | TX / RX | 2505 MHz | 2595 MHz | 2685 MHz | |
| (2500-2690) | | | Channel 39765 | Channel40640 | Channel 41515 | |
| , | 15MHz | TX / RX | 2507.5 MHz | 2595 MHz | 2682.5 MHz | |
| | | | Channel 39790 | Channel40640 | Channel 41490 | |
| | 20MHz | TX / RX | 2510 MHz | 2595 MHz | 2680 MHz | |

| Test Mode | Bandwidth | TX / RX | RF Channel | | | |
|-------------|-------------|---------|---------------|--------------|---------------|--|
| rest Mode | Dariuwiutii | IA/KA | Low (L) | Middle (M) | High (H) | |
| | | | Channel 39675 | Channel40620 | Channel 41565 | |
| | 5MHz | TX / RX | 2498.5 MHz | 2593 MHz | 2687.5 MHz | |
| | | | Channel 39700 | Channel40620 | Channel 41540 | |
| LTE Band 41 | 10MHz | TX / RX | 2501 MHz | 2593 MHz | 2685 MHz | |
| (2496-2690) | | | Channel 39725 | Channel40620 | Channel 41515 | |
| | 15MHz | TX / RX | 2503.5 MHz | 2593 MHz | 2682.5 MHz | |
| | | | Channel 39750 | Channel40620 | Channel 41490 | |
| | 20MHz | TX / RX | 2506 MHz | 2593 MHz | 2680 MHz | |

| Test Mode | Bandwidth | TX / RX | RF Channel | | | |
|-------------|---------------|---------|---------------|--------------|---------------|--|
| i est Mode | Dariuwiuiii | IA/KA | Low (L) | Middle (M) | High (H) | |
| | | | Channel 40065 | Channel40640 | Channel 41215 | |
| | 5MHz | TX / RX | 2537.5 MHz | 2595 MHz | 2652.5 MHz | |
| | | | Channel 40090 | Channel40640 | Channel 41190 | |
| LTE Band 41 | 10MHz | TX / RX | 2540 MHz | 2595 MHz | 2650 MHz | |
| (2535-2655) | | | Channel 40115 | Channel40640 | Channel 41165 | |
| | 15MHz TX / RX | | 2542.5 MHz | 2595 MHz | 2647.5 MHz | |
| | | | Channel 40140 | Channel40640 | Channel 41140 | |
| | 20MHz | TX / RX | 2545 MHz | 2595 MHz | 2645 MHz | |

| Test Mode | Bandwidth | TX / RX | RF Channel | | | |
|----------------------------|---------------|---------|---------------|--------------|---------------|--|
| rest Mode | Dariuwiuiii | IA/KA | Low (L) | Middle (M) | High (H) | |
| | | | Channel 40265 | Channel40840 | Channel 41415 | |
| | 5MHz | TX / RX | 2557.5 MHz | 2615.0 MHz | 2672.5 MHz | |
| | | | Channel 40290 | Channel40840 | Channel 41390 | |
| LTE Band 41 (2555-2675) | 10MHz | TX / RX | 2560.0 MHz | 2615.0 MHz | 2670.0 MHz | |
| | | | Channel 40315 | Channel40840 | Channel 41365 | |
| | 15MHz TX / RX | | 2562.5 MHz | 2615.0 MHz | 2667.5 MHz | |
| | | | Channel 40340 | Channel40840 | Channel 41340 | |
| | 20MHz | TX / RX | 2565 MHz | 2615.0 MHz | 2665 MHz | |



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| Toot Mode | Donduidth | TX / RX | | RF Channel | |
|------------|-----------|---------|----------------|----------------|----------------|
| Test Mode | Bandwidth | IA/RA | Low (L) | Middle (M) | High (H) |
| | | | Channel 131979 | Channel 132322 | Channel 132665 |
| | | TX | 1710.7 MHz | 1745 MHz | 1779.3 MHz |
| | 1.4MHz | RX | Channel 66443 | Channel 66786 | Channel 67329 |
| | | KA | 2110.7 MHz | 2145MHz | 2199.3 MHz |
| | | | Channel 131987 | Channel 132322 | Channel 132657 |
| | | TX | 1711.5 MHz | 1745 MHz | 1778.5MHz |
| | 3MHz | RX | Channel 66451 | Channel 66786 | Channel 67321 |
| | | KA | 2111.5 MHz | 2145MHz | 2198.5MHz |
| | | | Channel 131997 | Channel 132322 | Channel 132647 |
| | 5MHz | TX | 1712.5 MHz | 1745 MHz | 1777.5 MHz |
| | | RX | Channel 66461 | Channel 66786 | Channel 67311 |
| LTC DondCC | | | 2112.5 MHz | 2145MHz | 2197.5 MHz |
| LTE Band66 | 10MHz | TX | Channel 132022 | Channel 132322 | Channel 132622 |
| | | | 1715 MHz | 1745 MHz | 1775 MHz |
| | | RX | Channel 66486 | Channel 66786 | Channel 67286 |
| | | | 2115 MHz | 2145MHz | 2195 MHz |
| | | | Channel 132047 | Channel 132322 | Channel 132597 |
| | | TX | 1717.5 MHz | 1745 MHz | 1772.5 MHz |
| | 15MHz | RX | Channel 66511 | Channel 66786 | Channel 67261 |
| | | 1070 | 2117.5 MHz | 2145MHz | 2192.5 MHz |
| | | | Channel 132072 | Channel 132322 | Channel 132572 |
| | | TX | 1720 MHz | 1745 MHz | 1770 MHz |
| | 20MHz | DV | Channel 66536 | Channel 66786 | Channel 67236 |
| | | RX | 2120 MHz | 2145MHz | 2190 MHz |



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| | | | 1 6 | age. 25 01 2 | FO |
|-------------|-------------|---------|----------------|----------------|----------------|
| Test Mode | Bandwidth | TX / RX | RF Channel | | |
| 1 est Mode | e Danawatii | IX/IX | Low (L) | Middle (M) | High (H) |
| | | | Channel 133147 | Channel 133297 | Channel 133447 |
| | | TX | 665.5 MHz | 680.5 MHz | 695.5 MHz |
| | 1.4MHz | RX | Channel 68611 | Channel 68761 | Channel 68911 |
| | | KA | 619.5 MHz | 634.5 MHz | 649.5 MHz |
| | | | Channel 133172 | Channel 133297 | Channel 133422 |
| | | TX | 668 MHz | 680.5 MHz | 693 MHz |
| | 3MHz | DV | Channel 68636 | Channel 68761 | Channel 68886 |
| | | RX | 622 MHz | 634.5 MHz | 647 MHz |
| | | | Channel 133197 | Channel 133297 | Channel 133397 |
| | 5MHz | TX | 670.5 MHz | 680.5 MHz | 690.5 MHz |
| | | RX | Channel 68661 | Channel 68761 | Channel 68861 |
| LTE Dan d74 | | | 624.5 MHz | 634.5 MHz | 644.5 MHz |
| LTE Band71 | 10MHz | | Channel 133222 | Channel 133297 | Channel 133372 |
| | | TX | 673 MHz | 680.5 MHz | 688 MHz |
| | | RX | Channel 68686 | Channel 68761 | Channel 68836 |
| | | | 627 MHz | 634.5 MHz | 642 MHz |
| | | | Channel 133147 | Channel 133297 | Channel 133447 |
| | | TX | 665.5 MHz | 680.5 MHz | 695.5 MHz |
| | 15MHz | RX | Channel 68611 | Channel 68761 | Channel 68911 |
| | | 100 | 619.5 MHz | 634.5 MHz | 649.5 MHz |
| | | | Channel 133172 | Channel 133297 | Channel 133422 |
| | | TX | 668 MHz | 680.5 MHz | 693 MHz |
| | 20MHz | DV | Channel 68636 | Channel 68761 | Channel 68886 |
| | | RX | 622 MHz | 634.5 MHz | 647 MHz |



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Description of Tests 4

4.1 Conducted Output Power

Measurement Procedure: FCC KDB 971168 D01 V03r01

The transmitter output was connected to a calibrated coaxial cable, attenuator and power meter, the other end of which was connected to a Base Station Simulator. The Base Station Simulator was set to force the EUT to its maximum power setting. The power output at the transmitter antenna port was determined by adding the value of the cable insertion loss to the power reading. The tests were performed at three frequencies (low channel, middle channel and high channel) and on the highest power levels, which can be setup on the transmitters.

Remark: Reference test setup 1





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4.2 Effective (Isotropic) Radiated Power of Transmitter

Measurement Procedure: FCC KDB 971168 D01 V03r01; C63.26 (2015)

Calculate power in dBm by the following formula:

ERP (dBm) = Conducted Power (dBm) + antenna gain (dBd) EIRP(dBm) = Conducted Power (dBm) + antenna gain (dBi)

EIRP=ERP+2.15dB



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4.3 Occupied Bandwidth

Measurement Procedure: FCC KDB 971168 D01 V03r01 Section 4.2

The occupied bandwidth, that is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers radiated are each equal to 0.5 percent of the total mean power radiated by a given emission shall be measured. The transmitter output was connected to a calibrated coaxial cable, attenuator and Spectrum analyser, the other end of which was connected to a Base Station Simulator. The Base Station Simulator was set to force the EUT to its maximum power setting. The tests were performed at three frequencies (low channel, middle channel and high channel). The span of the analyzer shall be set to capture all products of the modulation process, including the emission skirts. The resolution bandwidth shall be set to as close to 1 percent of the selected span as is possible without being below 1 percent. The video bandwidth shall be set to 3 times the resolution bandwidth. Video averaging is not permitted. Where practical, a sampling detector shall be used since a peak or, peak hold, may produce a wider bandwidth than actual. The trace data points are recovered and are directly summed in linear terms. The recovered amplitude data points, beginning at the lowest frequency, are placed in a running sum until 0.5 percent of the total is reached and that frequency recorded. The process is repeated for the highest frequency data points. This frequency is recorded. The span between the two recorded frequencies is the occupied bandwidth.

Remark: Reference test setup 1

Test Settings

- 1. The signal analyzer's automatic bandwidth measurement capability was used to perform the 99% occupied bandwidth and the 26dB bandwidth. The bandwidth measurement was not influenced by any intermediate power nulls in the fundamental emission.
- 2. RBW = 1 5% of the expected OBW
- VBW ≥ 3 x RBW
- Detector = Peak
- 5. Trace mode = max hold
- 6. Sweep = auto couple
- 7. The trace was allowed to stabilize
- 8. If necessary, steps 2 7 were repeated after changing the RBW such that it would be within
 - 1 5% of the 99% occupied bandwidth observed in Step 7





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4.4 Band Edge at Antenna Terminals

Measurement Procedure: FCC KDB 971168 D01 V03r01 Section 6.0

The transmitter output was connected to a calibrated coaxial cable, attenuator and Spectrum analyser, the other end of which was connected to a Base Station Simulator. The Base Station Simulator was set to force the EUT to its maximum power setting. The tests were performed at two frequencies (low channel and high channel).in the 1MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of 100kHz or 1% of the emission bandwidth of the fundamental emission of the transmitter may be employed. The EUT emission bandwidth is measured as the width of the signal between two points, outside of which all emission are attenuated at least 26dB below the transmitter power. The video bandwidth of the spectrum analyzer was set at thrice the resolution bandwidth. Detector Mode was set to rms.

Remark: Reference test setup 1

Test Settings

- 1. Start and stop frequency were set such that the band edge would be placed in the center of the plot
- 2. Span was set large enough so as to capture all out of band emissions near the band edge
- 3. RBW > 1% of the emission bandwidth
- VBW > 3 x RBW
- Detector = RMS
- Number of sweep points ≥ 2 x Span/RBW
- 7. Trace mode = trace average for continuous emissions, max hold for pulse emissions
- Sweep time = auto couple
- 9. The trace was allowed to stabilize





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4.5 Spurious And Harmonic Emissions at Antenna Terminal

Measurement Procedure: FCC KDB 971168 D01 V03r01

The transmitter output was connected to a calibrated coaxial cable, attenuator and Spectrum analyzer, the other end of which was connected to a Base Station Simulator. The Base Station Simulator was set to force the EUT to its maximum power setting. The tests were performed at three frequencies (low channel and high channel). The level of the carrier and the various conducted spurious and harmonic frequencies is measured by means of a calibrated spectrum analyzer. The spectrum is scanned from the lowest frequency generated in the equipment up to a frequency including its 10th harmonic. On any frequency outside a licensee's frequency block, the power of any emission shall be attenuated below the transmitter power (P) by at least 43 + 10 log(P) dB. Compliance with these provisions is based on the use of measurement instrumentation employing a resolution bandwidth of 1 MHz or greater. However, in the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed. The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emission are attenuated at least 26 dB below the transmitter power.

Remark: Reference test setup 1

Test Settings

- Start frequency was set to 30MHz and stop frequency was set to at least 10 * the fundamental frequency (separated into at least two plots per channel)
- Detector = RMS
- Trace mode = trace average for continuous emissions, max hold for pulse emissions
- Sweep time = auto couple
- The trace was allowed to stabilize
- 6. Please see test notes below for RBW and VBW settings





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4.6 Peak-Average Ratio

Measurement Procedure: FCC KDB 971168 D01 V03r01 Section 5.7.1

A peak to average ratio measurement is performed at the conducted port of the EUT. For WCDMA signals, the spectrum analyzers Complementary Cumulative Distribution Function (CCDF) measurement profile is used to determine the largest deviation between the average and the peak power of the EUT in a given bandwidth. The CCDF curve shows how much time the peak waveform spends at or above a given average power level. The percent of time the signal spends at or above the level defines the probability for that particular power level. For GSM signals, an average and a peak trace are used on a spectrum analyzer to determine the largest deviation between the average and the peak power of the EUT in a bandwidth greater than the emission bandwidth. The traces are generated with the spectrum analyzer set to zero span mode.

Remark: Reference test setup 1

Test Settings

- The signal analyzer's CCDF measurement profile is enabled
- Frequency = carrier center frequency
- 3. Measurement BW > Emission bandwidth of signal
- 4. The signal analyzer was set to collect one million samples to generate the CCDF curve
- The measurement interval was set depending on the type of signal analyzed. For continuous signals (>98% duty cycle), the measurement interval was set to 1ms. For burst transmissions, the spectrum analyzer is set to use an internal "RF Burst" trigger that is synced with an incoming pulse and the measurement interval is set to less than the duration of the "on time" of one burst to ensure that energy is only captured during a time in which the transmitter is operating at maximum power





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4.7 Field Strength of Spurious Radiation

Measurement Procedure: FCC KDB 971168 D01 V03r01

Below 1GHz test procedure as below:

- 1). The EUT was powered ON and placed on a 80cm high table in the chamber. The antenna of the transmitter was extended to its maximum length.
- 2). The disturbance of the transmitter was maximized on the test receiver display by raising and lowering from 1m to 4m (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) the receive antenna and by rotating through 360° the turntable. After the fundamental emission was maximized, a field strength measurement was made.
- 3). Steps 1) and 2) were performed with the EUT and the receive antenna in both vertical and horizontal polarization.
- 4). The transmitter was then removed and replaced with another antenna. The center of the antenna was approximately at the same location as the center of the transmitter.
- 5). A signal at the disturbance was fed to the substitution antenna by means of a non-radiating cable. With both the substitution and the receive antennas horizontally polarized, the receive antenna was raised and lowered to obtain a maximum reading at the test receiver. The level of the signal generator was adjusted until the measured field strength level in step 2) is obtained for this set of conditions.
- 6). The output power into the substitution antenna was then measured.
- 7). Steps 5) and 6) were repeated with both antennas polarized.
- 8) Calculate power in dBm by the following formula:

ERP(dBm) = Pg(dBm) - cable loss (dB) + antenna gain (dBd)

Where:

Pd is the dipole equivalent power, Pg is the generator output into the substitution antenna, and the antenna gain is the gain of the substitute antenna used relative to either a half-wave dipole (dBd) or an isotropic source (dBi). The substitute level is equal to Pg [dBm] - cable loss [dB]. The calculated Pd levels are then compared to the absolute spurious emission limit of -13dBm which is equivalent to the required minimum attenuation of 43 + 10log10(Power [Watts]).

Above 1GHz test procedure as below:

- 1) Different between above is the test site, change from Semi- Anechoic Chamber to fully Anechoic Chamber
- 2) Calculate power in dBm by the following formula:

EIRP(dBm) = Pg(dBm) - cable loss (dB) + antenna gain (dBi) EIRP=ERP+2.15dB

Where:

Pg is the generator output power into the substitution antenna.

- 3. Test the EUT in the lowest channel, the middle channel the Highest channel
- 4. The radiation measurements are performed in X, Y, Z axis positioning. And found the X axis positioning which it is worse case, Only the test worst case mode is recorded in the report.
- 5. Repeat above procedures until all frequencies measured was complete

Remark1: Reference test setup 2

Remark2: The emission below 18G were measured at a 3m test distance, while emissions above 18GHz were measured at a 1m test distance.



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Test Settings:

1. RBW=100kHz for emission below 1GHz and 1MHz for emission above 1GHz

2. VBW≥3*RBW

3. Number of sweep point ≥ 2*span/RBW

4. Detector=RMS

5. Trace mode=Average (Max Hold for pulsed emissions)

6. The trace was allowed to stabilize



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4.8 Frequency Stability / Temperature Variation

Measurement Procedure:

Frequency stability testing is performed in accordance with the guidelines of FCC KDB 971168 D01 V03r01; ANSI/C63.26 (2015)

- . The frequency stability of the transmitter is measured by:
- a.) Temperature: The temperature is varied from -30°C to +50°C in 10°C increments using an environmental chamber.
- b.) Primary Supply Voltage: The primary supply voltage is varied from 85% to 115% of the nominal value for non hand-carried battery and AC powered equipment. For hand-carried, battery-powered equipment, primary supply voltage is reduced to the battery operating end point which shall be specified by the manufacturer.

Specification - The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block. The frequency stability of the transmitter shall be maintained within $\pm 0.00025\%$ (± 2.5 ppm) of the center frequency.

Time Period and Procedure:

- 1. The carrier frequency of the transmitter is measured at room temperature (20°C to provide a reference).
- 2. The equipment is turned on in a "standby" condition for fifteen minutes before applying power to the transmitter. Measurement of the carrier frequency of the transmitter is made within one minute after applying power to the transmitter.
- 3. Frequency measurements are made at 10°C intervals ranging from -30°C to +50°C. A period of at least one half-hour is provided to allow stabilization of the equipment at each temperature level.

Remark: Reference test setup 3



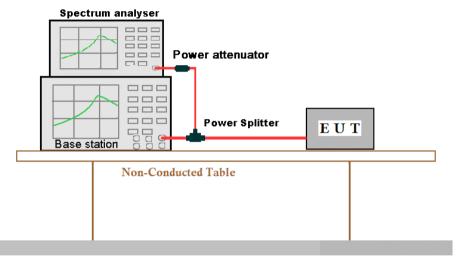


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4.9 Test Setups

4.9.1 **Test Setup 1**



Ground Reference Plane

4.9.2 **Test Setup 2**

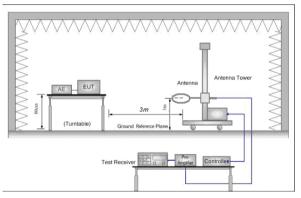


Figure 1. Below 30MHz



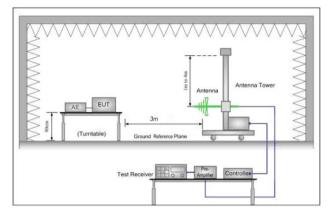
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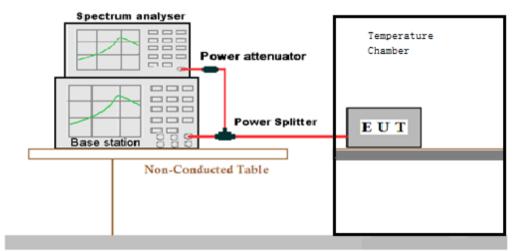


EUT

Figure 2. 30MHz to 1GHz

Figure 3. above 1GHz

4.9.3 **Test Setup 3**



Ground Reference Plane



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4.10Test Conditions

| Test Case | • | Test Condi | tions |
|---------------|------------------------|-------------------------|--|
| | | Test Environm ent | Ambient Climate & Rated Voltage |
| | Average Power, | Test Setup | Test Setup 1 |
| Transmit | Total | RF Channels (TX) | L, M, H (L= low channel, M= middle channel, H= high channel) |
| Output | | Test Mode | GSM/TM1;GSM/TM2;UMTS/TM1; LTE/TM1;LTE/TM2 |
| Power Data | Average Power, | Test Environm ent | Ambient Climate & Rated Voltage |
| | Spectral Density | Test Setup | Test Setup 1 |
| | (if required) | RF Channels (TX) | L, M, H (L= low channel, M= middle channel, H= high channel) |
| | | Test Mode | GSM/TM1;GSM/TM2;UMTS/TM1; LTE/TM1;LTE/TM2 |
| | , | | Ambient Climate & Rated Voltage |
| Peak-to-A | verage | Test Setup | Test Setup 1 |
| (if required | i) | RF Channels (TX) | L, M, H (L= low channel, M= middle channel, H= high channel) |
| | | Test Mode | GSM/TM1;GSM/TM2;UMTS/TM1; LTE/TM1;LTE/TM2 |
| | | Test Environm ent | Ambient Climate & Rated Voltage |
| Modulation | | Test Setup | Test Setup 1 |
| Onaracter | RF Channels (TX) | | M (M= middle channel) |
| | | Test Mode | GSM/TM1;GSM/TM2;UMTS/TM1; LTE/TM1;LTE/TM2 |
| Bandwid | Occupie | Test | Ambient Climate & Rated Voltage |



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|--------------------------|----------------------|-------------------------|--|
| th | d Bandwid | Environm ent | |
| | th | Test Setup | Test Setup 1 |
| | | RF Channels (TX) | L, M, H (L= low channel, M= middle channel, H= high channel) |
| | | Test Mode | GSM/TM1;GSM/TM2;UMTS/TM1; LTE/TM1;LTE/TM2 |
| | Emissio n | Test Environm ent | Ambient Climate & Rated Voltage |
| | Bandwid th | Test Setup | Test Setup 1 |
| | (if required) | RF Channels (TX) | L, M, H (L= low channel, M= middle channel, H= high channel) |
| | | Test Mode | GSM/TM1;GSM/TM2;UMTS/TM1; LTE/TM1;LTE/TM2 |
| | | | Ambient Climate & Rated Voltage |
| Band Edge | | Test Setup | Test Setup 1 |
| Compliand | <i>ਾ</i> ਦ | RF Channels (TX) | L, H (L= low channel, H= high channel) |
| | | Test Mode | GSM/TM1;GSM/TM2;UMTS/TM1; LTE/TM1;LTE/TM2 |
| | | Test Environm ent | Ambient Climate & Rated Voltage |
| Spurious E at Antenna | a | Test Setup | Test Setup 1 |
| Terminals | | RF Channels (TX) | L,M, H (L= low channel, M= middle channel, H= high channel) |
| | | Test Mode | GSM/TM1;UMTS/TM1; LTE/TM1; |
| Field Strength of | | Test Environm ent | Ambient Climate & Rated Voltage |
| ориноиз Г | auiaii011 | Test Setup | Test Setup 2 |



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| | Test Mode | GSM/TM1;GSM/TM2;UMTS/TM1; LTE/TM1;LTE/TM2 Remark: If applicable, the EUT conf. that has maximum power density (based on the equivalent power level) is selected. |
|---------------------|-------------------------|--|
| | RF Channels (TX) | L, M, H (L= low channel, M= middle channel, H= high channel) |
| | Test Environm ent | (1) -30 °C to +50 °C with step 10 °C at Rated Voltage; (2) VL, VN and VH of Rated Voltage at Ambient Climate. |
| Frequency Stability | Test Setup | Test Setup 3 |
| | RF Channels (TX) | L, M, H (L= low channel, M= middle channel, H= high channel) |
| | Test Mode | GSM/TM1;GSM/TM2;UMTS/TM1; LTE/TM1;LTE/TM2 |



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Main Test Instruments

| | Test System | | | | | | | | |
|------------------------------|---------------|-------------------------|---------------|------------------|------------------|--|--|--|--|
| Equipment | Manufacturer | Model No. | Inventory No | Cal. date | Cal.Due date | | | | |
| Equipment | Manuracturer | woder No. | Inventory No. | (yyyy-mm- dd) | (yyyy-mm- dd) | | | | |
| Radio communication analyzer | ROHDE&SCHWARZ | CMW 500 | XAW01-03-07 | 2020/10/26 | 2021/10/25 | | | | |
| Spectrum Analyzer | ROHDE&SCHWARZ | FSU | 100366 | 2021/6/8 | 2022/6/7 | | | | |
| temperature chamber | Votsch | VT4002 | XAW01-18-01 | 2021/4/1 | 2022/3/31 | | | | |
| RF control unit | Tonscend | JS0806-1 | NCR | NCR | NCR | | | | |
| Test Software | Tonscend | JS1120 (V2.6.9.0518) | NCR | NCR | NCR | | | | |



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| RSE Test System | | | | | |
|---------------------------------------|----------------|---------------------|---------------|------------|-----------------|
| Equipment | Manufacturer | Model No. | Inventory No. | Cal Date | Cal Due Date |
| Semi-Anechoic Chamber | Brilliant-emc | N/A | XAW03-35-01 | 2019-09-11 | 2022-09-10 |
| MXA signal analyzer | Keysight | N9020A | XAW01-06-01 | 2021-04-01 | 2022-03-31 |
| Radio communication analyzer | ROHDE&SCHWARZ | CMW 500 | XAW01-03-02 | 2021-04-01 | 2022-03-31 |
| Test receiver | ROHDE&SCHWARZ | ESR | XAW01-08-01 | 2020-09-11 | 2021-09-10 |
| Receiving antenna (30MHz-3GHz) | Schwarzbeck | VULB 9163 | XAW01-09-01 | 2019-10-13 | 2021-10-12 |
| Receiving antenna (1GHz~18GHz) | Schwarzbeck | BBHA 9120D | XAW01-09-02 | 2019-10-13 | 2021-10-12 |
| Receiving antenna (15GHz~40GHz) | Schwarzbeck | BBHA 9170 | XAW01-09-03 | 2019-10-13 | 2021-10-12 |
| Directional antenna rack controller | Max-Full | MF-7802BS | XAW03-03-01 | NCR | NCR |
| High-speed antenna rack controller | Max-Full | MF-7802 | XAW03-04-01 | NCR | NCR |
| Filter bank | Tonscend | JS0806-F | XAW03-05-01 | NCR | NCR |
| Filter bank | Tonscend | JS0806s | XAW03-05-02 | NCR | NCR |
| Amplifier | Tonscend | TAP00903040 | XAW01-41-01 | 2020-10-26 | 2021-10-25 |
| Amplifier | Tonscend | TAP01018048 | XAW01-41-02 | 2020-10-26 | 2021-10-25 |
| Amplifier | Tonscend | TAP18040048 | XAW01-41-03 | 2020-10-27 | 2021-10-26 |
| Amplifier | Shanghai Steed | YX28980930 | XAW01-41-06 | 2020-10-26 | 2021-10-25 |
| 5G UXM | Keysight | E7515B | XAW01-04-01 | 2020-09-11 | 2021-09-10 |
| Temperature and humidity meter | MingGao | TH101B | XAW01-01-01 | 2020-11-06 | 2021-11-05 |
| Measurement Software | Tonscend | TS+ RSE V3.0.0.2 | XAW02-05-01 | NCR | NCR |
| Loop Antenna | Schwarzbeck | FMZB 1519B | XAW01-48-02 | 2021-06-10 | 2022-06-09 |



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Measurement Uncertainty 6

For a 95% confidence level (k = 2), the measurement expanded uncertainties for defined systems, in accordance with the recommendations of ISO 17025 as following:

Lab A:

| No. | Item | Measurement Uncertainty | |
|-----|-------------------------------|--------------------------|--|
| 1 | Total RF power, conducted | ±0.41dB | |
| 2 | RF power density, conducted | ±1.96dB | |
| 3 | Spurious emissions, conducted | ±0.41dB | |
| 4 | Radio Frequency | ±7.10 x 10 ⁻⁸ | |
| 5 | Duty Cycle | ±0.49% | |
| 6 | Occupied Bandwidth | ±0.2% | |

Lab B:

| No. | Item | Measurement Uncertainty | |
|-----|-------------------|-------------------------|--|
| 1 | | ± 4.8dB (Below 1GHz) | |
| | Radiated Emission | ± 4.8dB (1GHz to 6GHz) | |
| | | ± 4.5dB (6GHz to 18GHz) | |
| | | ± 5.02dB (Above 18GHz) | |



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7 Appendixes

| Appendix A | Setup Photos |
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| Appendix B.2 | WCDMA Band II & IV & V |
| Appendix B.3 | LTE Band 2 |
| Appendix B.4 | LTE Band 4 |
| Appendix B.5 | LTE Band 5 |
| Appendix B.6 | LTE Band 12 |
| Appendix B.7 | LTE Band 25 |
| Appendix B.8 | LTE Band 26(814-824) |
| Appendix B.9 | LTE Band 26(824-849) |
| Appendix B.10 | LTE Band 41 |
| Appendix B.11 | LTE Band 66 |
| Appendix B.12 | LTE Band 71 |

The End



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