

FCC REPORT (LTE)

Applicant: SKY PHONE LLC
Address of Applicant: 1348 Washington Av. Suite 350, Miami Beach, FL 33139

Equipment Under Test (EUT)

Product Name: Tablet
Model No.: Elite T8Plus
Trade mark: SKY DEVICES

FCC ID: 2ABOSSKYELIT8P

Applicable standards: FCC CFR Title 47 Part 2
FCC CFR Title 47 Part 22 Subpart H
FCC CFR Title 47 Part 24 Subpart E
FCC CFR Title 47 Part 27 Subpart L
FCC CFR Title 47 Part 27 Subpart H

Date of sample receipt: 31 Aug., 2021

Date of Test: 31 Aug., to 28 Sep., 2021

Date of report issued: 29 Sep., 2021

Test Result: PASS*

*In the configuration tested, the EUT complied with the standards specified above.

Authorized Signature:



Bruce Zhang
Laboratory Manager

This report details the results of the testing carried out on one sample. The results contained in this test report do not relate to other samples of the same product and does not permit the use of the JYT product certification mark. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

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2. Version

| Version No. | Date | Description |
|-------------|---------------|-------------|
| 00 | 29 Sep., 2021 | Original |
| | | |
| | | |
| | | |
| | | |

Tested by: Mike.ou **Date:** 29 Sep., 2021
Test Engineer

Reviewed by: Winner Zhang **Date:** 29 Sep., 2021
Project Engineer

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4. Test Summary

| Test Items | Section in CFR 47 | Result |
|---|---|--|
| RF Exposure (SAR) | Part 1.1307 Part 2.1093 | Passed (Please refer to SAR Report) |
| RF Output Power | Part 2.1046 Part 22.913 (a)(5) Part 24.232 (c) Part 27.50 (c)(10) Part 27.50 (d)(4) | Appendix A – LTE |
| Peak-to-Average Ratio | Part 24.232 (d) Part 22.913 (d) Part 27.50(d)(5) | Appendix B – LTE |
| Modulation Characteristics | Part 2.1047 | Pass |
| 99% & -26 dB Occupied Bandwidth | Part 2.1049 Part 22.917(b) Part 24.238(b) Part 27.53(g) Part 27.53(h) | Appendix C – LTE |
| Out of band emission at antenna terminals | Part 2.1053 Part 22.917(a) Part 24.238 (a) Part 27.53 (g) Part 27.53 (h) | Appendix D – LTE Appendix E – LTE |
| Field strength of spurious radiation | Part 22.917(a) Part 24.238 (a) Part 27.53 (g) Part 27.53 (h) | Pass |
| Frequency stability vs. temperature | Part 22.355 Part 24.235 Part 27.54 Part 2.1055(a)(1)(b) | Appendix F – LTE |
| Frequency stability vs. voltage | Part 22.355 Part 24.235 Part 27.54 Part 2.1055(d)(2) | Appendix F – LTE |
| Remark: 1. Pass: The EUT complies with the essential requirements in the standard. 2. The cable insertion loss used by “RF Output Power” and other conduction measurement items is 0.5dB(Fundamental Frequency below 1GHz)/1.0dB(Fundamental Frequency above 1GHz) (provided by the customer). | | |
| Test Method: | ANSI/TIA-603-E-2016 ANSI C63.26-2015 | |

5. General Information

5.1 Client Information

| | |
|---------------|--|
| Applicant: | SKY PHONE LLC |
| Address: | 1348 Washington Av. Suite 350, Miami Beach, FL 33139 |
| Manufacturer: | SKY PHONE LLC |
| Address: | 1348 Washington Av. Suite 350, Miami Beach, FL 33139 |

5.2 General Description of E.U.T.

| | | | |
|----------------------------|--|---|---|
| Product Name: | Tablet | | |
| Model No.: | Elite T8Plus | | |
| Operation Frequency range: | LTE Band 2: | TX: 1850MHz-1910MHz | RX: 1930MHz-1990MHz |
| | LTE Band 4: | TX: 1710MHz-1755MHz | RX: 2110MHz-2155MHz |
| | LTE Band 5: | TX: 824MHz-849MHz | RX: 869MHz-894MHz |
| | LTE Band 12: | TX: 699MHz-716MHz | RX: 729MHz-746MHz |
| | LTE Band 17: | TX: 704MHz-716MHz | RX: 734MHz-746MHz |
| | LTE Band 66: | TX: 1710MHz-1780MHz | RX: 2110MHz-2200MHz |
| Modulation type: | <input checked="" type="checkbox"/> QPSK | <input checked="" type="checkbox"/> 16QAM | <input checked="" type="checkbox"/> 64QAM |
| Antenna type: | Internal Antenna | | |
| Antenna gain: | LTE Band 2: | 0.9 dBi(declare by Applicant) | |
| | LTE Band 4: | 0.6 dBi(declare by Applicant) | |
| | LTE Band 5: | -1.1 dBi(declare by Applicant) | |
| | LTE Band 12: | -2.8 dBi(declare by Applicant) | |
| | LTE Band 17: | -2.8 dBi(declare by Applicant) | |
| | LTE Band 66: | 1.0 dBi(declare by Applicant) | |
| Power supply: | Rechargeable Li-ion Battery DC 3.7V, 4000mAh | | |
| AC adapter: | Input: AC100-240V, 50/60Hz, 0.3A Output: DC 5.0V, 1500mA | | |
| Test Sample Condition: | The applicant provided engineering samples for staying in continuously transmitting for testing. | | |

Operation Frequency List:

| LTE Band 2 (1.4MHz) | | LTE Band 2 (3MHz) | |
|---------------------|-----------------|--------------------|-----------------|
| Channel | Frequency (MHz) | Channel | Frequency (MHz) |
| 18607 | 1850.70 | 18615 | 1851.50 |
| 18608 | 1850.80 | 18616 | 1851.60 |
| | | | |
| 18899 | 1879.90 | 18899 | 1879.90 |
| 18900 | 1880.00 | 18900 | 1880.00 |
| 18901 | 1880.10 | 18901 | 1880.10 |
| ... | ... | ... | ... |
| 19193 | 1909.20 | 19185 | 1908.40 |
| 19194 | 1909.30 | 19186 | 1908.50 |
| LTE Band 2 (5MHz) | | LTE Band 2 (10MHz) | |
| Channel | Frequency (MHz) | Channel | Frequency (MHz) |
| 18625 | 1852.50 | 18650 | 1855.00 |
| 18626 | 1852.60 | 18651 | 1855.10 |
| | | | |
| 18899 | 1879.90 | 18899 | 1879.90 |
| 18900 | 1880.00 | 18900 | 1880.00 |
| 18901 | 1880.10 | 18901 | 1880.10 |
| ... | ... | ... | ... |
| 19175 | 1907.40 | 19150 | 1904.90 |
| 19176 | 1907.50 | 19151 | 1905.00 |
| LTE Band 2 (15MHz) | | LTE Band 2 (20MHz) | |
| Channel | Frequency (MHz) | Channel | Frequency (MHz) |
| 18675 | 1857.50 | 18700 | 1860.00 |
| 18676 | 1857.60 | 18701 | 1860.10 |
| | | | |
| 18899 | 1879.90 | 18899 | 1879.90 |
| 18900 | 1880.00 | 18900 | 1880.00 |
| 18901 | 1880.10 | 18901 | 1880.10 |
| ... | ... | ... | ... |
| 19125 | 1902.40 | 19100 | 1899.90 |
| 19126 | 1902.50 | 19101 | 1900.00 |

| LTE Band 4 (1.4MHz) | | LTE Band 4 (3MHz) | |
|---------------------|-----------------|--------------------|-----------------|
| Channel | Frequency (MHz) | Channel | Frequency (MHz) |
| 19957 | 1710.70 | 19965 | 1711.50 |
| 19958 | 1710.80 | 19966 | 1711.60 |
| | | | |
| 20174 | 1732.40 | 20174 | 1732.40 |
| 20175 | 1732.50 | 20175 | 1732.50 |
| 20176 | 1732.60 | 20176 | 1732.60 |
| ... | ... | ... | ... |
| 20392 | 1754.20 | 20384 | 1753.40 |
| 20393 | 1754.30 | 20385 | 1753.50 |
| LTE Band 4 (5MHz) | | LTE Band 4 (10MHz) | |
| Channel | Frequency (MHz) | Channel | Frequency (MHz) |
| 19975 | 1712.50 | 20000 | 1715.00 |
| 19976 | 1712.60 | 20001 | 1715.10 |
| | | | |
| 20174 | 1732.40 | 20174 | 1732.40 |
| 20175 | 1732.50 | 20175 | 1732.50 |
| 20176 | 1732.60 | 20176 | 1732.60 |
| ... | ... | ... | ... |
| 20374 | 1752.40 | 20349 | 1749.90 |
| 20375 | 1752.50 | 20350 | 1750.00 |
| LTE Band 4 (15MHz) | | LTE Band 4 (20MHz) | |
| Channel | Frequency (MHz) | Channel | Frequency (MHz) |
| 20025 | 1717.50 | 20050 | 1720.00 |
| 20026 | 1717.60 | 20051 | 1720.10 |
| | | | |
| 20174 | 1732.40 | 20174 | 1732.40 |
| 20175 | 1732.50 | 20175 | 1732.50 |
| 20176 | 1732.60 | 20176 | 1732.60 |
| ... | ... | ... | ... |
| 20324 | 1747.40 | 20299 | 1744.90 |
| 20325 | 1747.50 | 20300 | 1745.00 |

| LTE Band 5 (1.4MHz) | | LTE Band 5 (3MHz) | |
|---------------------|-----------------|--------------------|-----------------|
| Channel | Frequency (MHz) | Channel | Frequency (MHz) |
| 20407 | 824.70 | 20415 | 825.50 |
| 20408 | 824.80 | 20416 | 825.60 |
| | | | |
| 20524 | 836.40 | 20524 | 836.40 |
| 20525 | 836.50 | 20525 | 836.50 |
| 20526 | 836.60 | 20526 | 836.60 |
| ... | ... | ... | ... |
| 20642 | 848.20 | 20634 | 847.40 |
| 20643 | 848.30 | 20635 | 847.50 |
| LTE Band 5 (5MHz) | | LTE Band 5 (10MHz) | |
| Channel | Frequency (MHz) | Channel | Frequency (MHz) |
| 20425 | 826.50 | 20450 | 829.00 |
| 20426 | 826.60 | 20451 | 829.10 |
| | | | |
| 20524 | 836.40 | 20524 | 836.40 |
| 20525 | 836.50 | 20525 | 836.50 |
| 20526 | 836.60 | 20526 | 836.60 |
| ... | ... | ... | ... |
| 20624 | 846.40 | 20599 | 839.90 |
| 20625 | 846.50 | 20600 | 844.00 |

| LTE Band 12 (1.4MHz) | | LTE Band 12 (3MHz) | |
|----------------------|-----------------|---------------------|-----------------|
| Channel | Frequency (MHz) | Channel | Frequency (MHz) |
| 23017 | 699.70 | 23025 | 700.50 |
| 23756 | 699.80 | 23026 | 700.60 |
| | | | |
| 23094 | 707.40 | 23094 | 707.40 |
| 23095 | 707.50 | 23095 | 707.50 |
| 23096 | 707.60 | 23096 | 707.60 |
| ... | ... | ... | ... |
| 23172 | 715.20 | 23164 | 714.40 |
| 23173 | 715.30 | 23165 | 714.50 |
| LTE Band 12 (5MHz) | | LTE Band 12 (10MHz) | |
| Channel | Frequency (MHz) | Channel | Frequency (MHz) |
| 23035 | 701.50 | 23060 | 704.00 |
| 23036 | 701.60 | 23061 | 704.10 |
| | | | |
| 23094 | 707.40 | 23094 | 707.40 |
| 23095 | 707.50 | 23095 | 707.50 |
| 23096 | 707.60 | 23096 | 707.60 |
| ... | ... | ... | ... |
| 23154 | 713.40 | 23129 | 710.90 |
| 23155 | 713.50 | 23130 | 711.00 |

| LTE Band 17 (5MHz) | | LTE Band 17 (10MHz) | |
|--------------------|-----------------|---------------------|-----------------|
| Channel | Frequency (MHz) | Channel | Frequency (MHz) |
| 23755 | 706.50 | 23780 | 709.00 |
| 23756 | 706.60 | 23781 | 709.10 |
| | | | |
| 23789 | 709.90 | 23789 | 709.90 |
| 23790 | 710.00 | 23790 | 710.00 |
| 23791 | 710.10 | 23791 | 710.10 |
| ... | ... | ... | ... |
| 23824 | 713.40 | 23799 | 710.90 |
| 23825 | 713.50 | 23800 | 711.00 |

| LTE Band 66 (1.4MHz) | | LTE Band 66 (3MHz) | |
|----------------------|-----------------|---------------------|-----------------|
| Channel | Frequency (MHz) | Channel | Frequency (MHz) |
| 131979 | 1710.70 | 131987 | 1711.50 |
| 131980 | 1710.80 | 131988 | 1711.60 |
| | | | |
| 132321 | 1744.90 | 132321 | 1744.90 |
| 132322 | 1745.00 | 132322 | 1745.00 |
| 132323 | 1745.10 | 132323 | 1745.10 |
| ... | ... | ... | ... |
| 132664 | 1779.20 | 132656 | 1778.40 |
| 132665 | 1779.30 | 132657 | 1778.50 |
| LTE Band 66 (5MHz) | | LTE Band 66 (10MHz) | |
| Channel | Frequency (MHz) | Channel | Frequency (MHz) |
| 131997 | 1712.50 | 132022 | 1715.00 |
| 131998 | 1712.60 | 132023 | 1715.10 |
| | | | |
| 132321 | 1744.90 | 132321 | 1744.90 |
| 132322 | 1745.00 | 132322 | 1745.00 |
| 132323 | 1745.10 | 132323 | 1745.10 |
| ... | ... | ... | ... |
| 136246 | 1777.40 | 132621 | 1774.90 |
| 136247 | 1777.50 | 132622 | 1775.00 |
| LTE Band 66 (15MHz) | | LTE Band 66 (20MHz) | |
| Channel | Frequency (MHz) | Channel | Frequency (MHz) |
| 132047 | 1717.50 | 132072 | 1720.00 |
| 132048 | 1717.60 | 132073 | 1720.10 |
| | | | |
| 132321 | 1744.90 | 132321 | 1744.90 |
| 132322 | 1745.00 | 132322 | 1745.00 |
| 132323 | 1745.10 | 132323 | 1745.10 |
| ... | ... | ... | ... |
| 132596 | 1772.40 | 132571 | 1769.90 |
| 132597 | 1772.50 | 132572 | 1770.00 |

Regards to the operating frequency range, the lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channels as below:

| LTE Band 2 (1.4MHz) | | | LTE Band 2 (3MHz) | | |
|---------------------|-----------------|---------|--------------------|-----------------|---------|
| Channel | Frequency (MHz) | | Channel | Frequency (MHz) | |
| Lowest channel | 18607 | 1850.70 | Lowest channel | 18615 | 1851.50 |
| Middle channel | 18900 | 1880.00 | Middle channel | 18900 | 1880.00 |
| Highest channel | 19193 | 1909.30 | Highest channel | 19185 | 1908.50 |
| LTE Band 2 (5MHz) | | | LTE Band 2 (10MHz) | | |
| Channel | Frequency (MHz) | | Channel | Frequency (MHz) | |
| Lowest channel | 18625 | 1852.50 | Lowest channel | 18650 | 1855.00 |
| Middle channel | 18900 | 1880.00 | Middle channel | 18900 | 1880.00 |
| Highest channel | 19175 | 1907.50 | Highest channel | 19150 | 1905.00 |
| LTE Band 2 (15MHz) | | | LTE Band 2 (20MHz) | | |
| Channel | Frequency (MHz) | | Channel | Frequency (MHz) | |
| Lowest channel | 18675 | 1857.50 | Lowest channel | 18700 | 1860.00 |
| Middle channel | 18900 | 1880.00 | Middle channel | 18900 | 1880.00 |
| Highest channel | 19125 | 1902.50 | Highest channel | 19100 | 1900.00 |

| LTE Band 4 (1.4MHz) | | | LTE Band 4 (3MHz) | | |
|---------------------|-----------------|---------|--------------------|-----------------|---------|
| Channel: | Frequency (MHz) | | Channel | Frequency (MHz) | |
| Lowest channel | 19957 | 1710.70 | Lowest channel | 19965 | 1711.50 |
| Middle channel | 20175 | 1732.50 | Middle channel | 20175 | 1732.50 |
| Highest channel | 20393 | 1754.30 | Highest channel | 20385 | 1753.50 |
| LTE Band 4 (5MHz) | | | LTE Band 4 (10MHz) | | |
| Channel | Frequency (MHz) | | Channel | Frequency (MHz) | |
| Lowest channel | 19975 | 1712.50 | Lowest channel | 20000 | 1715.00 |
| Middle channel | 20175 | 1732.50 | Middle channel | 20175 | 1732.50 |
| Highest channel | 20375 | 1752.50 | Highest channel | 20350 | 1750.00 |
| LTE Band 4 (15MHz) | | | LTE Band 4 (20MHz) | | |
| Channel | Frequency (MHz) | | Channel | Frequency (MHz) | |
| Lowest channel | 20025 | 1717.50 | Lowest channel | 20050 | 1720.00 |
| Middle channel | 20175 | 1732.50 | Middle channel | 20175 | 1732.50 |
| Highest channel | 20325 | 1747.50 | Highest channel | 20300 | 1745.00 |

| LTE Band 5 (1.4MHz) | | | LTE Band 5 (3MHz) | | |
|---------------------|-----------------|--------|--------------------|-----------------|--------|
| Channel: | Frequency (MHz) | | Channel | Frequency (MHz) | |
| Lowest channel | 20407 | 824.70 | Lowest channel | 20415 | 825.50 |
| Middle channel | 20525 | 836.50 | Middle channel | 20525 | 836.50 |
| Highest channel | 20643 | 848.30 | Highest channel | 20635 | 847.50 |
| LTE Band 5 (5MHz) | | | LTE Band 5 (10MHz) | | |
| Channel | Frequency (MHz) | | Channel | Frequency (MHz) | |
| Lowest channel | 20425 | 826.50 | Lowest channel | 20450 | 829.00 |
| Middle channel | 20525 | 836.50 | Middle channel | 20525 | 836.50 |
| Highest channel | 20625 | 846.50 | Highest channel | 20600 | 844.00 |

| LTE Band 12(1.4MHz) | | | LTE Band 12(3MHz) | | |
|---------------------|-------|-----------------|--------------------|-------|-----------------|
| Channel | | Frequency (MHz) | Channel | | Frequency (MHz) |
| Lowest channel | 23017 | 699.70 | Lowest channel | 23025 | 700.50 |
| Middle channel | 23095 | 707.50 | Middle channel | 23095 | 707.50 |
| Highest channel | 23173 | 715.30 | Highest channel | 23165 | 714.50 |
| LTE Band 12(5MHz) | | | LTE Band 12(10MHz) | | |
| Channel | | Frequency (MHz) | Channel | | Frequency (MHz) |
| Lowest channel | 23035 | 701.50 | Lowest channel | 23060 | 704.00 |
| Middle channel | 23095 | 707.50 | Middle channel | 23095 | 707.50 |
| Highest channel | 23155 | 713.50 | Highest channel | 23130 | 711.00 |

| LTE Band 17(5MHz) | | | LTE Band 17(10MHz) | | |
|-------------------|-------|-----------------|--------------------|-------|-----------------|
| Channel | | Frequency (MHz) | Channel | | Frequency (MHz) |
| Lowest channel | 23755 | 706.50 | Lowest channel | 23780 | 709.00 |
| Middle channel | 23790 | 710.00 | Middle channel | 23790 | 710.00 |
| Highest channel | 23825 | 713.50 | Highest channel | 23800 | 711.00 |

LTE Band 66 includes LTE Band 4:

| LTE Band 66 (1.4MHz) | | | LTE Band 66 (3MHz) | | |
|----------------------|--------|-----------------|---------------------|--------|-----------------|
| Channel | | Frequency (MHz) | Channel | | Frequency (MHz) |
| Lowest channel | 131979 | 1710.7 | Lowest channel | 131987 | 1711.5 |
| Middle channel | 132322 | 1745.0 | Middle channel | 132322 | 1745.0 |
| Highest channel | 132665 | 1779.3 | Highest channel | 132657 | 1778.5 |
| LTE Band 66 (5MHz) | | | LTE Band 66 (10MHz) | | |
| Channel | | Frequency (MHz) | Channel | | Frequency (MHz) |
| Lowest channel | 131997 | 1712.5 | Lowest channel | 132022 | 1715.0 |
| Middle channel | 132322 | 1745.5 | Middle channel | 132322 | 1745.0 |
| Highest channel | 132647 | 1777.5 | Highest channel | 132622 | 1775.0 |
| LTE Band 66 (15MHz) | | | LTE Band 66 (20MHz) | | |
| Channel | | Frequency (MHz) | Channel | | Frequency (MHz) |
| Lowest channel | 132047 | 1717.5 | Lowest channel | 132072 | 1720.0 |
| Middle channel | 132322 | 1745.0 | Middle channel | 132322 | 1745.0 |
| Highest channel | 132597 | 1772.5 | Highest channel | 132572 | 1770.0 |

5.3 Test environment and mode

| Operating Environment: | |
|--|--|
| Temperature: | Normal: 15°C ~ 35°C, Extreme: -30°C ~ +50°C |
| Humidity: | 20 % ~ 75 % RH |
| Atmospheric Pressure: | 1008 mbar |
| Voltage: | Nominal: 3.7Vdc, Extreme: Low 3.30 Vdc, High 4.20 Vdc |
| Test mode: | |
| LTE QPSK mode | Keep the EUT communication with simulated station in QPSK mode |
| LTE 16-QAM mode | Keep the EUT communication with simulated station in 16-QAM mode |
| Remark: The EUT has been tested under continuous transmitting mode. Channel Low, Mid and High for each type band with rated data rate were chosen for full testing. The field strength of spurious radiation emission was measured as EUT stand-up position (H mode) and lie down position (E1, E2 mode) for these modes. Just the worst case position (H mode) shown in report. | |

5.4 Description of Support Units

| Test Equipment | Manufacturer | Model No. | Serial No. |
|-------------------|--------------|-----------|------------|
| Simulated Station | Anritsu | MT8820C | 6201026545 |

5.5 Measurement Uncertainty

| Parameter | Expanded Uncertainty (Confidence of 95%) |
|--|--|
| Radiated Emission (9kHz ~ 30MHz electric field) for 3m SAC | 3.13 dB |
| Radiated Emission (9kHz ~ 30MHz magnetic field) for 3m SAC | 3.13 dB |
| Radiated Emission (30MHz ~ 1GHz) for 3m SAC | 4.45 dB |
| Radiated Emission (1GHz ~ 18GHz) for 3m SAC | 5.34 dB |
| Radiated Emission (18GHz ~ 40GHz) for 3m SAC | 5.34 dB |

5.6 Related Submittal(s) / Grant (s)

This is an original grant, no related submittals and grants.

5.7 Additions to, deviations, or exclusions from the method

No

5.8 Laboratory Facility

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

- **FCC - Designation No.: CN1211**

JianYan Testing Group Shenzhen Co., Ltd. has been accredited as a testing laboratory by FCC (Federal Communications Commission). The test firm Registration No. is 727551.

- **ISED – CAB identifier.: CN0021**

The 3m Semi-anechoic chamber of JianYan Testing Group Shenzhen Co., Ltd. has been Registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 10106A-1.

- **A2LA - Registration No.: 4346.01**

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 General requirements for the competence of testing and calibration laboratories. The test scope can be found as below link: <https://portal.a2la.org/scopepdf/4346-01.pdf>

5.9 Laboratory Location

JianYan Testing Group Shenzhen Co., Ltd.

Address: No.101, Building 8, Innovation Wisdom Port, No.155 Hongtian Road, Huangpu Community, Xinqiao Street, Bao'an District, Shenzhen, Guangdong, People's Republic of China.

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Email: info-JYTee@lets.com, Website: <http://www.ccis-cb.com>

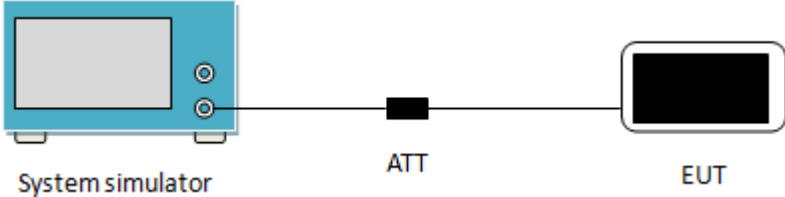
5.10 Test Instruments list

| Radiated Emission: | | | | | |
|---------------------------|---------------------|------------------|-------------------|----------------------------|--------------------------------|
| Test Equipment | Manufacturer | Model No. | Serial No. | Cal.Date (mm-dd-yy) | Cal.Due date (mm-dd-yy) |
| 3m SAC | ETS | RFD-100 | Q1984 | 04-14-2021 | 04-13-2024 |
| Loop Antenna | SCHWARZBECK | FMZB 1519 B | 1519B-044 | 03-07-2021 | 03-06-2022 |
| BiConiLog Antenna | SCHWARZBECK | VULB9163 | 9163-1246 | 03-07-2021 | 03-06-2022 |
| Biconical Antenna | SCHWARZBECK | VUBA 9117 | 9117#359 | 06-17-2021 | 06-17-2022 |
| Horn Antenna | SCHWARZBECK | BBHA9120D | 912D-916 | 03-07-2021 | 03-06-2022 |
| Broad-Band Horn Antenna | SCHWARZBECK | BBHA9170 | 1067 | 04-02-2021 | 04-01-2022 |
| Broad-Band Horn Antenna | SCHWARZBECK | BBHA9170 | 1068 | 04-02-2021 | 04-01-2022 |
| EMI Test Receiver | Rohde & Schwarz | ESRP7 | 101070 | 03-03-2021 | 03-02-2022 |
| Spectrum analyzer | Rohde & Schwarz | FSP30 | 101454 | 03-03-2021 | 03-02-2022 |
| Spectrum analyzer | Keysight | N9010B | MY60240202 | 11-27-2020 | 11-26-2021 |
| Simulated Station | Anritsu | MT8820C | 6201026545 | 03-03-2021 | 03-02-2022 |
| Low Pre-amplifier | SCHWARZBECK | BBV9743B | 00305 | 03-07-2021 | 03-06-2022 |
| High Pre-amplifier | SKET | LNPA_0118G-50 | MF280208233 | 03-07-2021 | 03-06-2022 |
| Cable | Qualwave | JYT3M-1G-NN-8M | JYT3M-1 | 03-07-2021 | 03-06-2022 |
| Cable | Qualwave | JYT3M-18G-NN-8M | JYT3M-2 | 03-07-2021 | 03-06-2022 |
| Cable | Qualwave | JYT3M-1G-BB-5M | JYT3M-3 | 03-07-2021 | 03-06-2022 |
| Cable | Bost | JYT3M-40G-SS-8M | JYT3M-4 | 04-02-2021 | 04-01-2022 |
| EMI Test Software | Tonscend | TS+ | Version:3.0.0.1 | | |

| Conducted method: | | | | | |
|--------------------------|---------------------|------------------|---------------------|-----------------------------|---------------------------------|
| Test Equipment | Manufacturer | Model No. | Serial No. | Cal. Date (mm-dd-yy) | Cal. Due date (mm-dd-yy) |
| Spectrum Analyzer | Keysight | N9020B | MY57431500 | 07-02-2021 | 07-01-2022 |
| Simulated Station | Rohde & Schwarz | CMW500 | 108209 | 07-02-2021 | 07-01-2022 |
| RF Control Unit | Tonscend | JS0806-1 | N/A | N/A | N/A |
| Band Reject Filter Group | Tonscend | JS0806-F | 21A8060360 | N/A | N/A |
| Test Software | Tonscend | TS+ | Version: 2.6.9.0526 | | |

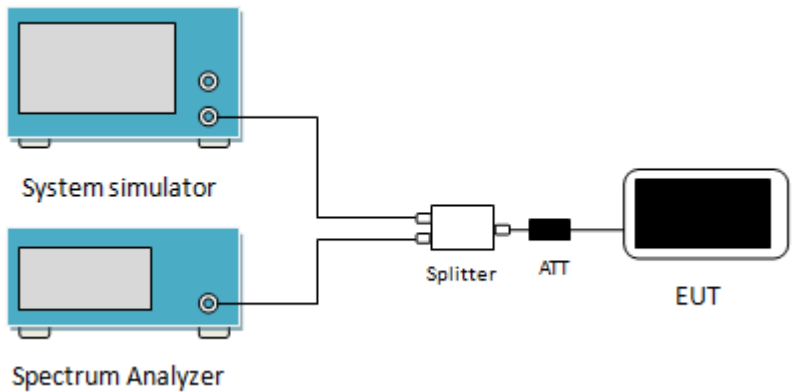
6. Test results

6.1 Conducted Output Power, ERP and EIRP

| | |
|-------------------|---|
| Test Requirement: | Part 22.913(a)(5), Part 24.232(c), part 27.50(c)(10), Part 27.50(d)(4), |
| Limit: | LTE Band 2: 2W, LTE Band 4: 1W, LTE Band 5: 7W, LTE Band 12: 3W, LTE Band 17: 3W, LTE Band 66: 1W |
| Test Setup: |  <p>The diagram shows a blue 'System simulator' box on the left, connected by a line to a black 'ATT' (attenuator) block in the center, which is then connected to a black 'EUT' (Equipment Under Test) box on the right.</p> |
| Test Procedure: | The transmitter output was connected to a calibrated attenuator, the other end of which was connected to the CMW500. Transmitter output power was read off in dBm. |
| Test Instruments: | Refer to section 5.10 for details |
| Test mode: | Refer to section 5.3 for details |
| Test results: | Passed |

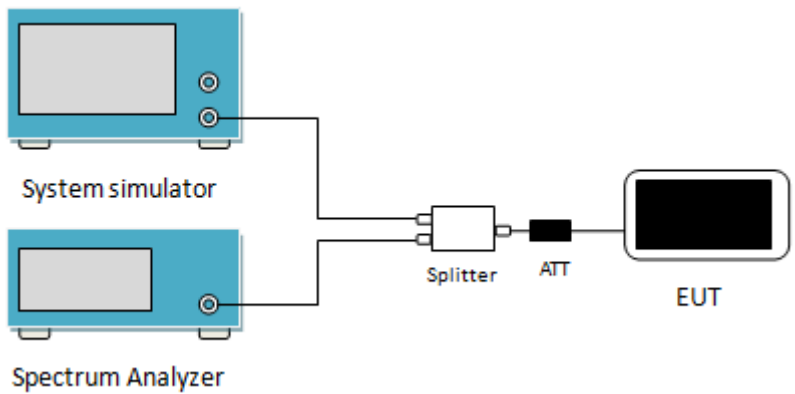
Measurement Data: Refer to Appendix A – LTE

6.2 Peak-to-Average Ratio

| | |
|-------------------|--|
| Test Requirement: | Part 24.232 (d), Part 27.50(d)(5) |
| Limit: | The peak-to-average ratio (PAR) of the transmission may not exceed 13 dB. |
| Test Setup: |  <p>The diagram illustrates the test setup. On the left, there are two blue rectangular units: the top one is labeled 'System simulator' and the bottom one is labeled 'Spectrum Analyzer'. Both have a screen and two circular ports on their right side. A single line connects the two ports of the System simulator to a 'Splitter' box. Another line connects the two ports of the Spectrum Analyzer to the same 'Splitter' box. From the 'Splitter', a line goes to an 'ATT' (Attenuator) box, and finally, a line connects the ATT to a mobile phone icon labeled 'EUT' (Equipment Under Test).</p> |
| Test Procedure: | <ol style="list-style-type: none"> 1 The RF output of the transceiver was connected to a spectrum analyzer through appropriate attenuation. 2 Set the CCDF option in spectrum analyzer, $RBW \geq OBW$, 3 Set the EUT working in highest power level, measured and recorded the 0.1% as PAPR level. 4 Repeat step 1~3 at other frequency and modulations. |
| Test Instruments: | Refer to section 5.10 for details |
| Test mode: | Refer to section 5.3 for details |
| Test results: | Passed |

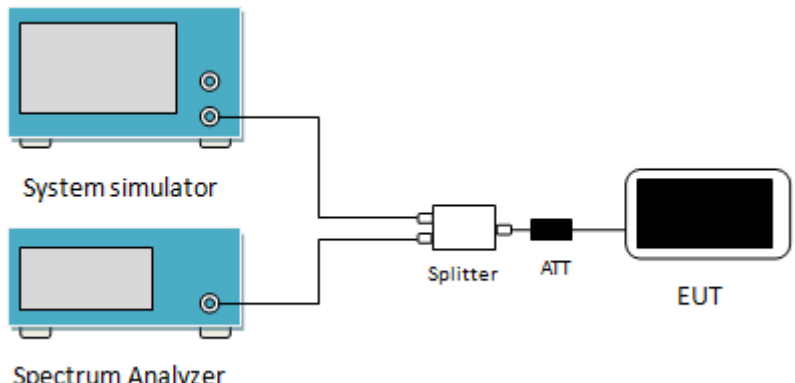
Measurement Data: Refer to Appendix B – LTE

6.3 Occupy Bandwidth

| | |
|-------------------|---|
| Test Requirement: | Part 22.917(b), Part 24.238(b), Part 27.53(g), Part 27.53(h) |
| Test Setup: |  <p>The diagram shows a test setup for measuring occupied bandwidth. On the left, there are two blue rectangular devices: a 'System simulator' on top and a 'Spectrum Analyzer' on the bottom. Both have their output ports connected to a central 'Splitter' box. From the right side of the 'Splitter', a cable goes to an 'ATT' (attenuator) block, which is then connected to the input of an 'EUT' (Equipment Under Test), represented by a smartphone icon.</p> |
| Test Procedure: | <ol style="list-style-type: none"> 1. The EUT's output RF connector was connected with a short cable to the spectrum analyzer 2. RBW was set to about 1% ~ 5% of emission BW, VBW= 3 times RBW. 3. -26dBc display line was placed on the screen (or 99% bandwidth), the occupied bandwidth is the delta frequency between the two points where the display line intersects the signal trace. |
| Test Instruments: | Refer to section 5.10 for details |
| Test mode: | Refer to section 5.3 for details |
| Test results: | Passed |

Measurement Data: Refer to Appendix C – LTE

6.4 Out of band emission at antenna terminals

| | |
|-------------------|--|
| Test Requirement: | Part 22.917(a), Part 24.238 (a), part 27.53(g), part 27.53(h) |
| Limit: | LTE Band 2 & 4 & 5 & 12 & 17 & 66: The power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) in watts by at least $43 + 10 \log_{10}(P)$ dB (-13 dBm). |
| Test Setup: |  <p>The diagram illustrates the test setup. On the left, there are two blue rectangular units: the top one is labeled 'System simulator' and the bottom one is labeled 'Spectrum Analyzer'. Both have a screen and two ports on the right side. A single line connects the two ports of the System simulator to the two ports of the Spectrum Analyzer. This line then splits into two paths. One path goes to a white rectangular 'Splitter' box. The other path goes to a black rectangular 'ATT' (Attenuator) box. Both the Splitter and ATT boxes have two ports on their left side, which are connected to the two ports of the System simulator. The right side of the Splitter is connected to the left side of the ATT box. The right side of the ATT box is connected to the left side of a black rectangular 'EUT' (Equipment Under Test) box.</p> |
| Test Procedure: | <ol style="list-style-type: none"> 1 The RF output of the transceiver was connected to a spectrum analyzer through appropriate attenuation. 2 For the out of band: For Band 5 & 12 & 17 set the RBW=100 kHz, VBW=300 kHz and for Band 2 & 4 & 7 set the RBW=1 MHz, VBW=3 MHz when below 1 GHz, RBW =1 MHz, VBW=3 MHz when above 1 GHz, Start=30MHz, Stop= 10th harmonic. 3 Band Edge Requirements: In the 1 MHz bands immediately outside and adjacent to the frequency block, a resolution bandwidth of at least 1 percent of the emission bandwidth of the fundamental emission of the transmitter may be employed to measure the out of band Emissions. |
| Test Instruments: | Refer to section 5.10 for details |
| Test mode: | Refer to section 5.3 for details |
| Test results: | Passed |
| Remark: | Pre-scan all RB Size and offset, and found the RB Size and offset of worst case, so the report shows only the worst case test data. |

Measurement Data:

Band edge emission: Refer to Appendix D – LTE

Spurious emission: Refer to Appendix E – LTE

6.5 Field strength of spurious radiation measurement

| | |
|-------------------|---|
| Test Requirement: | Part 22.917(a), Part 24.238 (a), Part 27.53(g), Part 27.53(h) |
| Limit: | LTE Band 2 & 4 & 5 & 12 & 17 & 66: The power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) in watts by at least $43 + 10 \log_{10}(P)$ dB (-13 dBm). |
| Test setup: | <p>Below 1GHz</p> <p>Above 1GHz</p> |
| Test Procedure: | <ol style="list-style-type: none"> The EUT was placed on the top of a rotating table 0.8m(below 1GHz)/1.5m(above 1GHz) above the ground at a 3 meter camber. The radiated emission at the fundamental frequency was measured at 3 m with a test antenna and EMI spectrum analyzer. During the tests, the antenna height and the EUT azimuth were varied in order to identify the maximum level of emissions from the EUT. This maximization process was repeated with the EUT positioned in each of its three orthogonal orientations. The frequency range up to tenth harmonic was investigated for each of three fundamental frequency (low, middle and high channels). Once spurious emission was identified, the power of the emission was determined using the substitution method. The spurious emissions attenuation was calculated as the difference between radiated power at the fundamental frequency and the spurious emissions frequency. $ERP / EIRP = S.G. \text{ output (dBm)} + \text{Antenna Gain(dB/dBi)} - \text{Cable Loss (dB)}$ |
| Test Instruments: | Refer to section 5.10 for details |
| Test mode: | Refer to section 5.3 for details. |
| Test results: | Passed |

Measurement Data:

LTE Band 2 part:

| Band 2 (1.4MHz) | | | | | | |
|--|-------------------------------|-------------|----------------------------------|------------------|-------------|--------------|
| Lowest channel | | | | | | |
| Frequency (MHz) | Spurious Emission level (dBm) | Factor (dB) | Level at antenna terminals (dBm) | Limit Line (dBm) | Margin (dB) | Polarization |
| 3701.40 | -36.29 | -1.40 | -37.69 | -13.00 | 24.69 | Vertical |
| 5552.10 | -49.02 | 5.27 | -43.75 | -13.00 | 30.75 | Vertical |
| 7402.00 | -49.22 | 13.00 | -36.22 | -13.00 | 23.22 | Vertical |
| 3701.40 | -33.61 | -1.40 | -35.01 | -13.00 | 22.01 | Horizontal |
| 5552.10 | -48.60 | 5.27 | -43.33 | -13.00 | 30.33 | Horizontal |
| 7402.00 | -50.04 | 13.00 | -37.04 | -13.00 | 24.04 | Horizontal |
| Middle channel | | | | | | |
| Frequency (MHz) | Spurious Emission level (dBm) | Factor (dB) | Level at antenna terminals (dBm) | Limit Line (dBm) | Margin (dB) | Polarization |
| 3760.00 | -36.72 | -1.03 | -37.75 | -13.00 | 24.75 | Vertical |
| 5640.00 | -49.22 | 6.06 | -43.16 | -13.00 | 30.16 | Vertical |
| 7520.00 | -49.66 | 13.29 | -36.37 | -13.00 | 23.37 | Vertical |
| 3760.00 | -33.53 | -1.03 | -34.56 | -13.00 | 21.56 | Horizontal |
| 5640.00 | -48.62 | 6.06 | -42.56 | -13.00 | 29.56 | Horizontal |
| 7520.00 | -49.94 | 13.29 | -36.65 | -13.00 | 23.65 | Horizontal |
| Highest channel | | | | | | |
| Frequency (MHz) | Spurious Emission level (dBm) | Factor (dB) | Level at antenna terminals (dBm) | Limit Line (dBm) | Margin (dB) | Polarization |
| 3816.60 | -36.65 | -0.83 | -37.48 | -13.00 | 24.48 | Vertical |
| 5724.90 | -48.91 | 6.82 | -42.09 | -13.00 | 29.09 | Vertical |
| 7633.20 | -49.34 | 13.44 | -35.90 | -13.00 | 22.90 | Vertical |
| 3816.60 | -33.67 | -0.83 | -34.50 | -13.00 | 21.50 | Horizontal |
| 5724.90 | -48.11 | 6.82 | -41.29 | -13.00 | 28.29 | Horizontal |
| 7633.20 | -50.47 | 13.44 | -37.03 | -13.00 | 24.03 | Horizontal |
| <i>Remark:</i> | | | | | | |
| <i>The emission levels of below 1 GHz are lower than the limit 20dB and not show in test report.</i> | | | | | | |

| Band 2 (20MHz) | | | | | | |
|--|-------------------------------|-------------|----------------------------------|------------------|-------------|--------------|
| Lowest channel | | | | | | |
| Frequency (MHz) | Spurious Emission level (dBm) | Factor (dB) | Level at antenna terminals (dBm) | Limit Line (dBm) | Margin (dB) | Polarization |
| 3720.00 | -36.41 | -1.28 | -37.69 | -13.00 | 24.69 | Vertical |
| 5580.00 | -48.90 | 5.36 | -43.54 | -13.00 | 30.54 | Vertical |
| 7440.00 | -49.64 | 13.04 | -36.60 | -13.00 | 23.60 | Vertical |
| 3720.00 | -33.48 | -1.28 | -34.76 | -13.00 | 21.76 | Horizontal |
| 5580.00 | -47.17 | 5.36 | -41.81 | -13.00 | 28.81 | Horizontal |
| 7440.00 | -50.91 | 13.04 | -37.87 | -13.00 | 24.87 | Horizontal |
| Middle channel | | | | | | |
| Frequency (MHz) | Spurious Emission level (dBm) | Factor (dB) | Level at antenna terminals (dBm) | Limit Line (dBm) | Margin (dB) | Polarization |
| 3760.00 | -36.08 | -1.03 | -37.11 | -13.00 | 24.11 | Vertical |
| 5640.00 | -48.97 | 6.06 | -42.91 | -13.00 | 29.91 | Vertical |
| 7520.00 | -49.76 | 13.29 | -36.47 | -13.00 | 23.47 | Vertical |
| 3760.00 | -33.84 | -1.03 | -34.87 | -13.00 | 21.87 | Horizontal |
| 5640.00 | -47.27 | 6.06 | -41.21 | -13.00 | 28.21 | Horizontal |
| 7520.00 | -50.58 | 13.29 | -37.29 | -13.00 | 24.29 | Horizontal |
| Highest channel | | | | | | |
| Frequency (MHz) | Spurious Emission level (dBm) | Factor (dB) | Level at antenna terminals (dBm) | Limit Line (dBm) | Margin (dB) | Polarization |
| 3800.00 | -36.53 | -0.83 | -37.36 | -13.00 | 24.36 | Vertical |
| 5700.00 | -49.08 | 6.62 | -42.46 | -13.00 | 29.46 | Vertical |
| 7600.00 | -49.42 | 13.71 | -35.71 | -13.00 | 22.71 | Vertical |
| 3800.00 | -34.01 | -0.83 | -34.84 | -13.00 | 21.84 | Horizontal |
| 5700.00 | -47.75 | 6.62 | -41.13 | -13.00 | 28.13 | Horizontal |
| 7600.00 | -50.41 | 13.71 | -36.70 | -13.00 | 23.70 | Horizontal |
| <i>Remark:</i> | | | | | | |
| <i>The emission levels of below 1 GHz are lower than the limit 20dB and not show in test report.</i> | | | | | | |

LTE Band 4 part:

| Band 4 (1.4MHz) | | | | | | |
|--|-------------------------------|-------------|----------------------------------|------------------|-------------|--------------|
| Lowest channel | | | | | | |
| Frequency (MHz) | Spurious Emission level (dBm) | Factor (dB) | Level at antenna terminals (dBm) | Limit Line (dBm) | Margin (dB) | Polarization |
| 3421.40 | -34.08 | -1.82 | -35.90 | -13.00 | 22.90 | Vertical |
| 5132.10 | -41.75 | 4.62 | -37.13 | -13.00 | 24.13 | Vertical |
| 6842.80 | -49.80 | 10.44 | -39.36 | -13.00 | 26.36 | Vertical |
| 3421.40 | -33.00 | -1.82 | -34.82 | -13.00 | 21.82 | Horizontal |
| 5132.10 | -46.17 | 4.62 | -41.55 | -13.00 | 28.55 | Horizontal |
| 6842.80 | -49.87 | 10.44 | -39.43 | -13.00 | 26.43 | Horizontal |
| Middle channel | | | | | | |
| Frequency (MHz) | Spurious Emission level (dBm) | Factor (dB) | Level at antenna terminals (dBm) | Limit Line (dBm) | Margin (dB) | Polarization |
| 3465.00 | -34.51 | -1.73 | -36.24 | -13.00 | 23.24 | Vertical |
| 5197.50 | -41.69 | 4.76 | -36.93 | -13.00 | 23.93 | Vertical |
| 6930.00 | -49.71 | 10.76 | -38.95 | -13.00 | 25.95 | Vertical |
| 3465.00 | -33.39 | -1.73 | -35.12 | -13.00 | 22.12 | Horizontal |
| 5197.50 | -46.26 | 4.76 | -41.50 | -13.00 | 28.50 | Horizontal |
| 6930.00 | -49.84 | 10.76 | -39.08 | -13.00 | 26.08 | Horizontal |
| Highest channel | | | | | | |
| Frequency (MHz) | Spurious Emission level (dBm) | Factor (dB) | Level at antenna terminals (dBm) | Limit Line (dBm) | Margin (dB) | Polarization |
| 3508.60 | -33.61 | -1.64 | -35.25 | -13.00 | 22.25 | Vertical |
| 5262.90 | -42.24 | 5.04 | -37.20 | -13.00 | 24.20 | Vertical |
| 7017.20 | -49.82 | 11.33 | -38.49 | -13.00 | 25.49 | Vertical |
| 3508.60 | -32.56 | -1.64 | -34.20 | -13.00 | 21.20 | Horizontal |
| 5262.90 | -46.16 | 5.04 | -41.12 | -13.00 | 28.12 | Horizontal |
| 7017.20 | -50.25 | 11.33 | -38.92 | -13.00 | 25.92 | Horizontal |
| <i>Remark:</i> | | | | | | |
| <i>The emission levels of below 1 GHz are lower than the limit 20dB and not show in test report.</i> | | | | | | |

| Band 4 (20MHz) | | | | | | |
|--|-------------------------------|-------------|----------------------------------|------------------|-------------|--------------|
| Lowest channel | | | | | | |
| Frequency (MHz) | Spurious Emission level (dBm) | Factor (dB) | Level at antenna terminals (dBm) | Limit Line (dBm) | Margin (dB) | Polarization |
| 3440.00 | -33.63 | -1.82 | -35.45 | -13.00 | 22.45 | Vertical |
| 5160.00 | -42.55 | 4.71 | -37.84 | -13.00 | 24.84 | Vertical |
| 6880.00 | -49.79 | 10.54 | -39.25 | -13.00 | 26.25 | Vertical |
| 3440.00 | -32.34 | -1.82 | -34.16 | -13.00 | 21.16 | Horizontal |
| 5160.00 | -45.84 | 4.71 | -41.13 | -13.00 | 28.13 | Horizontal |
| 6880.00 | -49.78 | 10.54 | -39.24 | -13.00 | 26.24 | Horizontal |
| Middle channel | | | | | | |
| Frequency (MHz) | Spurious Emission level (dBm) | Factor (dB) | Level at antenna terminals (dBm) | Limit Line (dBm) | Margin (dB) | Polarization |
| 3465.00 | -33.67 | -1.73 | -35.40 | -13.00 | 22.40 | Vertical |
| 5197.50 | -42.64 | 4.76 | -37.88 | -13.00 | 24.88 | Vertical |
| 6930.00 | -49.81 | 10.76 | -39.05 | -13.00 | 26.05 | Vertical |
| 3465.00 | -32.58 | -1.73 | -34.31 | -13.00 | 21.31 | Horizontal |
| 5197.50 | -45.95 | 4.76 | -41.19 | -13.00 | 28.19 | Horizontal |
| 6930.00 | -49.47 | 10.76 | -38.71 | -13.00 | 25.71 | Horizontal |
| Highest channel | | | | | | |
| Frequency (MHz) | Spurious Emission level (dBm) | Factor (dB) | Level at antenna terminals (dBm) | Limit Line (dBm) | Margin (dB) | Polarization |
| 3490.00 | -34.02 | -1.65 | -35.67 | -13.00 | 22.67 | Vertical |
| 5235.00 | -42.66 | 4.95 | -37.71 | -13.00 | 24.71 | Vertical |
| 6980.00 | -49.66 | 10.98 | -38.68 | -13.00 | 25.68 | Vertical |
| 3490.00 | -32.67 | -1.65 | -34.32 | -13.00 | 21.32 | Horizontal |
| 5235.00 | -45.78 | 4.95 | -40.83 | -13.00 | 27.83 | Horizontal |
| 6980.00 | -49.80 | 10.98 | -38.82 | -13.00 | 25.82 | Horizontal |
| <i>Remark:</i> | | | | | | |
| <i>The emission levels of below 1 GHz are lower than the limit 20dB and not show in test report.</i> | | | | | | |

LTE Band 5 part:

| Band 5 (1.4MHz) | | | | | | |
|--|-------------------------------|-------------|----------------------------------|------------------|-------------|--------------|
| Lowest channel | | | | | | |
| Frequency (MHz) | Spurious Emission level (dBm) | Factor (dB) | Level at antenna terminals (dBm) | Limit Line (dBm) | Margin (dB) | Polarization |
| 1649.40 | -41.27 | -9.89 | -51.16 | -13.00 | 38.16 | Vertical |
| 2474.10 | -48.16 | -5.57 | -53.73 | -13.00 | 40.73 | Vertical |
| 3298.80 | -47.36 | -2.14 | -49.50 | -13.00 | 36.50 | Vertical |
| 1649.40 | -41.35 | -9.89 | -51.24 | -13.00 | 38.24 | Horizontal |
| 2474.10 | -36.53 | -5.57 | -42.10 | -13.00 | 29.10 | Horizontal |
| 3298.80 | -47.30 | -2.14 | -49.44 | -13.00 | 36.44 | Horizontal |
| Middle channel | | | | | | |
| Frequency (MHz) | Spurious Emission level (dBm) | Factor (dB) | Level at antenna terminals (dBm) | Limit Line (dBm) | Margin (dB) | Polarization |
| 1673.30 | -40.47 | -9.88 | -50.35 | -13.00 | 37.35 | Vertical |
| 2509.50 | -47.77 | -5.29 | -53.06 | -13.00 | 40.06 | Vertical |
| 3346.00 | -47.36 | -2.05 | -49.41 | -13.00 | 36.41 | Vertical |
| 1673.30 | -41.30 | -9.88 | -51.18 | -13.00 | 38.18 | Horizontal |
| 2509.50 | -36.07 | -5.29 | -41.36 | -13.00 | 28.36 | Horizontal |
| 3346.00 | -46.55 | -2.05 | -48.60 | -13.00 | 35.60 | Horizontal |
| Highest channel | | | | | | |
| Frequency (MHz) | Spurious Emission level (dBm) | Factor (dB) | Level at antenna terminals (dBm) | Limit Line (dBm) | Margin (dB) | Polarization |
| 1696.60 | -40.80 | -9.87 | -50.67 | -13.00 | 37.67 | Vertical |
| 2544.90 | -48.14 | -5.13 | -53.27 | -13.00 | 40.27 | Vertical |
| 3393.20 | -47.62 | -1.97 | -49.59 | -13.00 | 36.59 | Vertical |
| 1696.60 | -41.68 | -9.87 | -51.55 | -13.00 | 38.55 | Horizontal |
| 2544.90 | -36.09 | -5.13 | -41.22 | -13.00 | 28.22 | Horizontal |
| 3393.20 | -46.90 | -1.97 | -48.87 | -13.00 | 35.87 | Horizontal |
| <i>Remark:</i> | | | | | | |
| <i>The emission levels of below 1 GHz are lower than the limit 20dB and not show in test report.</i> | | | | | | |

| Band 5 (10MHz) | | | | | | |
|--|-------------------------------|-------------|----------------------------------|------------------|-------------|--------------|
| Lowest channel | | | | | | |
| Frequency (MHz) | Spurious Emission level (dBm) | Factor (dB) | Level at antenna terminals (dBm) | Limit Line (dBm) | Margin (dB) | Polarization |
| 1658.00 | -40.86 | -9.89 | -50.75 | -13.00 | 37.75 | Vertical |
| 2487.00 | -48.47 | -5.45 | -53.92 | -13.00 | 40.92 | Vertical |
| 3316.00 | -47.62 | -2.09 | -49.71 | -13.00 | 36.71 | Vertical |
| 1658.00 | -40.86 | -9.89 | -50.75 | -13.00 | 37.75 | Horizontal |
| 2487.00 | -36.60 | -5.45 | -42.05 | -13.00 | 29.05 | Horizontal |
| 3316.00 | -47.43 | -2.09 | -49.52 | -13.00 | 36.52 | Horizontal |
| Middle channel | | | | | | |
| Frequency (MHz) | Spurious Emission level (dBm) | Factor (dB) | Level at antenna terminals (dBm) | Limit Line (dBm) | Margin (dB) | Polarization |
| 1673.30 | -40.39 | -9.88 | -50.27 | -13.00 | 37.27 | Vertical |
| 2509.50 | -48.46 | -5.29 | -53.75 | -13.00 | 40.75 | Vertical |
| 3346.00 | -47.31 | -2.05 | -49.36 | -13.00 | 36.36 | Vertical |
| 1673.30 | -40.42 | -9.88 | -50.30 | -13.00 | 37.30 | Horizontal |
| 2509.50 | -36.94 | -5.29 | -42.23 | -13.00 | 29.23 | Horizontal |
| 3346.00 | -47.10 | -2.05 | -49.15 | -13.00 | 36.15 | Horizontal |
| Highest channel | | | | | | |
| Frequency (MHz) | Spurious Emission level (dBm) | Factor (dB) | Level at antenna terminals (dBm) | Limit Line (dBm) | Margin (dB) | Polarization |
| 1688.00 | -40.19 | -9.87 | -50.06 | -13.00 | 37.06 | Vertical |
| 2532.00 | -48.26 | -5.13 | -53.39 | -13.00 | 40.39 | Vertical |
| 3376.00 | -46.84 | -1.97 | -48.81 | -13.00 | 35.81 | Vertical |
| 1688.00 | -40.05 | -9.87 | -49.92 | -13.00 | 36.92 | Horizontal |
| 2532.00 | -37.23 | -5.13 | -42.36 | -13.00 | 29.36 | Horizontal |
| 3376.00 | -47.07 | -1.97 | -49.04 | -13.00 | 36.04 | Horizontal |
| <i>Remark:</i> | | | | | | |
| <i>The emission levels of below 1 GHz are lower than the limit 20dB and not show in test report.</i> | | | | | | |

LTE Band 12 part:

| Band 12 (1.4MHz) | | | | | | |
|--|-------------------------------|-------------|----------------------------------|------------------|-------------|--------------|
| Lowest channel | | | | | | |
| Frequency (MHz) | Spurious Emission level (dBm) | Factor (dB) | Level at antenna terminals (dBm) | Limit Line (dBm) | Margin (dB) | Polarization |
| 1399.40 | -39.83 | -8.43 | -48.26 | -13.00 | 35.26 | Vertical |
| 2099.10 | -43.55 | -7.76 | -51.31 | -13.00 | 38.31 | Vertical |
| 2798.80 | -46.70 | -3.98 | -50.68 | -13.00 | 37.68 | Vertical |
| 1399.40 | -41.93 | -8.43 | -50.36 | -13.00 | 37.36 | Horizontal |
| 2099.10 | -40.60 | -7.76 | -48.36 | -13.00 | 35.36 | Horizontal |
| 2798.80 | -46.09 | -3.98 | -50.07 | -13.00 | 37.07 | Horizontal |
| Middle channel | | | | | | |
| Frequency (MHz) | Spurious Emission level (dBm) | Factor (dB) | Level at antenna terminals (dBm) | Limit Line (dBm) | Margin (dB) | Polarization |
| 1415.00 | -39.42 | -8.60 | -48.02 | -13.00 | 35.02 | Vertical |
| 2122.50 | -43.90 | -7.65 | -51.55 | -13.00 | 38.55 | Vertical |
| 2830.00 | -47.36 | -3.91 | -51.27 | -13.00 | 38.27 | Vertical |
| 1415.00 | -42.06 | -8.60 | -50.66 | -13.00 | 37.66 | Horizontal |
| 2122.50 | -40.37 | -7.65 | -48.02 | -13.00 | 35.02 | Horizontal |
| 2830.00 | -46.23 | -3.91 | -50.14 | -13.00 | 37.14 | Horizontal |
| Highest channel | | | | | | |
| Frequency (MHz) | Spurious Emission level (dBm) | Factor (dB) | Level at antenna terminals (dBm) | Limit Line (dBm) | Margin (dB) | Polarization |
| 1430.60 | -39.81 | -8.77 | -48.58 | -13.00 | 35.58 | Vertical |
| 2145.90 | -43.84 | -7.54 | -51.38 | -13.00 | 38.38 | Vertical |
| 2861.20 | -47.19 | -3.78 | -50.97 | -13.00 | 37.97 | Vertical |
| 1430.60 | -41.70 | -8.77 | -50.47 | -13.00 | 37.47 | Horizontal |
| 2145.90 | -40.67 | -7.54 | -48.21 | -13.00 | 35.21 | Horizontal |
| 2861.20 | -46.42 | -3.78 | -50.20 | -13.00 | 37.20 | Horizontal |
| <i>Remark:</i> | | | | | | |
| <i>The emission levels of below 1 GHz are lower than the limit 20dB and not show in test report.</i> | | | | | | |

| Band 12 (10MHz) | | | | | | |
|--|-------------------------------|-------------|----------------------------------|------------------|-------------|--------------|
| Lowest channel | | | | | | |
| Frequency (MHz) | Spurious Emission level (dBm) | Factor (dB) | Level at antenna terminals (dBm) | Limit Line (dBm) | Margin (dB) | Polarization |
| 1408.00 | -40.00 | -8.60 | -48.60 | -13.00 | 35.60 | Vertical |
| 2112.00 | -43.97 | -7.65 | -51.62 | -13.00 | 38.62 | Vertical |
| 2816.00 | -46.60 | -3.91 | -50.51 | -13.00 | 37.51 | Vertical |
| 1408.00 | -41.74 | -8.60 | -50.34 | -13.00 | 37.34 | Horizontal |
| 2112.00 | -40.97 | -7.65 | -48.62 | -13.00 | 35.62 | Horizontal |
| 2816.00 | -45.61 | -3.91 | -49.52 | -13.00 | 36.52 | Horizontal |
| Middle channel | | | | | | |
| Frequency (MHz) | Spurious Emission level (dBm) | Factor (dB) | Level at antenna terminals (dBm) | Limit Line (dBm) | Margin (dB) | Polarization |
| 1415.00 | -39.52 | -8.60 | -48.12 | -13.00 | 35.12 | Vertical |
| 2122.50 | -43.54 | -7.65 | -51.19 | -13.00 | 38.19 | Vertical |
| 2830.00 | -46.81 | -3.91 | -50.72 | -13.00 | 37.72 | Vertical |
| 1415.00 | -41.45 | -8.60 | -50.05 | -13.00 | 37.05 | Horizontal |
| 2122.50 | -40.91 | -7.65 | -48.56 | -13.00 | 35.56 | Horizontal |
| 2830.00 | -45.13 | -3.91 | -49.04 | -13.00 | 36.04 | Horizontal |
| Highest channel | | | | | | |
| Frequency (MHz) | Spurious Emission level (dBm) | Factor (dB) | Level at antenna terminals (dBm) | Limit Line (dBm) | Margin (dB) | Polarization |
| 1422.00 | -39.45 | -8.60 | -48.05 | -13.00 | 35.05 | Vertical |
| 2133.00 | -43.98 | -7.54 | -51.52 | -13.00 | 38.52 | Vertical |
| 2844.00 | -46.54 | -3.85 | -50.39 | -13.00 | 37.39 | Vertical |
| 1422.00 | -41.65 | -8.60 | -50.25 | -13.00 | 37.25 | Horizontal |
| 2133.00 | -40.91 | -7.54 | -48.45 | -13.00 | 35.45 | Horizontal |
| 2844.00 | -45.48 | -3.85 | -49.33 | -13.00 | 36.33 | Horizontal |
| <i>Remark:</i> | | | | | | |
| <i>The emission levels of below 1 GHz are lower than the limit 20dB and not show in test report.</i> | | | | | | |

LTE Band 17 part:

| Band 17 (5MHz) | | | | | | |
|--|-------------------------------|-------------|----------------------------------|------------------|-------------|--------------|
| Lowest channel | | | | | | |
| Frequency (MHz) | Spurious Emission level (dBm) | Factor (dB) | Level at antenna terminals (dBm) | Limit Line (dBm) | Margin (dB) | Polarization |
| 1413.00 | -42.65 | -8.60 | -51.25 | -13.00 | 38.25 | Vertical |
| 2119.50 | -46.80 | -7.65 | -54.45 | -13.00 | 41.45 | Vertical |
| 2826.00 | -46.53 | -3.91 | -50.44 | -13.00 | 37.44 | Vertical |
| 1413.00 | -44.15 | -8.60 | -52.75 | -13.00 | 39.75 | Horizontal |
| 2119.50 | -44.35 | -7.65 | -52.00 | -13.00 | 39.00 | Horizontal |
| 2826.00 | -47.83 | -3.91 | -51.74 | -13.00 | 38.74 | Horizontal |
| Middle channel | | | | | | |
| Frequency (MHz) | Spurious Emission level (dBm) | Factor (dB) | Level at antenna terminals (dBm) | Limit Line (dBm) | Margin (dB) | Polarization |
| 1420.00 | -42.44 | -8.60 | -51.04 | -13.00 | 38.04 | Vertical |
| 2130.00 | -46.83 | -7.54 | -54.37 | -13.00 | 41.37 | Vertical |
| 2840.00 | -46.65 | -3.85 | -50.50 | -13.00 | 37.50 | Vertical |
| 1420.00 | -43.76 | -8.60 | -52.36 | -13.00 | 39.36 | Horizontal |
| 2130.00 | -44.12 | -7.54 | -51.66 | -13.00 | 38.66 | Horizontal |
| 2840.00 | -47.95 | -3.85 | -51.80 | -13.00 | 38.80 | Horizontal |
| Highest channel | | | | | | |
| Frequency (MHz) | Spurious Emission level (dBm) | Factor (dB) | Level at antenna terminals (dBm) | Limit Line (dBm) | Margin (dB) | Polarization |
| 1427.00 | -42.20 | -8.77 | -50.97 | -13.00 | 37.97 | Vertical |
| 2140.50 | -46.61 | -7.54 | -54.15 | -13.00 | 41.15 | Vertical |
| 2854.00 | -46.10 | -3.85 | -49.95 | -13.00 | 36.95 | Vertical |
| 1427.00 | -44.20 | -8.77 | -52.97 | -13.00 | 39.97 | Horizontal |
| 2140.50 | -44.83 | -7.54 | -52.37 | -13.00 | 39.37 | Horizontal |
| 2854.00 | -48.03 | -3.85 | -51.88 | -13.00 | 38.88 | Horizontal |
| <i>Remark:</i> | | | | | | |
| <i>The emission levels of below 1 GHz are lower than the limit 20dB and not show in test report.</i> | | | | | | |

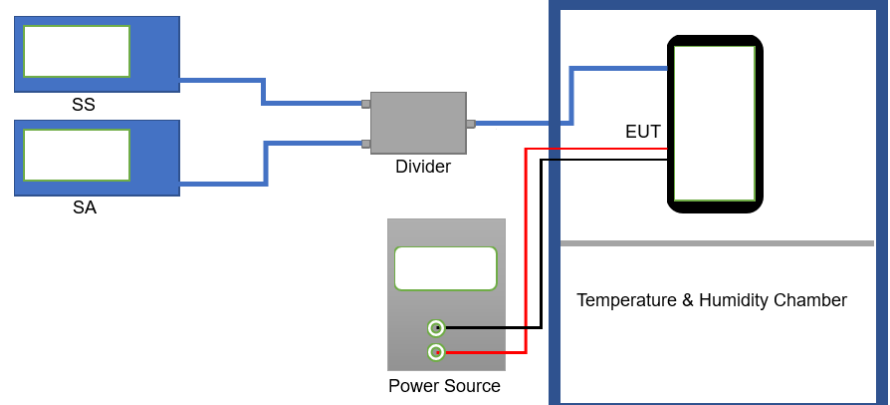
| Band 17 (10MHz) | | | | | | |
|--|-------------------------------|-------------|----------------------------------|------------------|-------------|--------------|
| Lowest channel | | | | | | |
| Frequency (MHz) | Spurious Emission level (dBm) | Factor (dB) | Level at antenna terminals (dBm) | Limit Line (dBm) | Margin (dB) | Polarization |
| 1418.00 | -42.66 | -8.60 | -51.26 | -13.00 | 38.26 | Vertical |
| 2127.00 | -46.73 | -7.65 | -54.38 | -13.00 | 41.38 | Vertical |
| 2836.00 | -45.44 | -3.85 | -49.29 | -13.00 | 36.29 | Vertical |
| 1418.00 | -44.46 | -8.60 | -53.06 | -13.00 | 40.06 | Horizontal |
| 2127.00 | -44.90 | -7.65 | -52.55 | -13.00 | 39.55 | Horizontal |
| 2836.00 | -48.16 | -3.85 | -52.01 | -13.00 | 39.01 | Horizontal |
| Middle channel | | | | | | |
| Frequency (MHz) | Spurious Emission level (dBm) | Factor (dB) | Level at antenna terminals (dBm) | Limit Line (dBm) | Margin (dB) | Polarization |
| 1420.00 | -42.50 | -8.60 | -51.10 | -13.00 | 38.10 | Vertical |
| 2130.00 | -46.86 | -7.54 | -54.40 | -13.00 | 41.40 | Vertical |
| 2840.00 | -45.66 | -3.85 | -49.51 | -13.00 | 36.51 | Vertical |
| 1420.00 | -44.15 | -8.60 | -52.75 | -13.00 | 39.75 | Horizontal |
| 2130.00 | -44.59 | -7.54 | -52.13 | -13.00 | 39.13 | Horizontal |
| 2840.00 | -47.76 | -3.85 | -51.61 | -13.00 | 38.61 | Horizontal |
| Highest channel | | | | | | |
| Frequency (MHz) | Spurious Emission level (dBm) | Factor (dB) | Level at antenna terminals (dBm) | Limit Line (dBm) | Margin (dB) | Polarization |
| 1422.00 | -42.35 | -8.60 | -50.95 | -13.00 | 37.95 | Vertical |
| 2133.00 | -46.59 | -7.54 | -54.13 | -13.00 | 41.13 | Vertical |
| 2844.00 | -45.68 | -3.85 | -49.53 | -13.00 | 36.53 | Vertical |
| 1422.00 | -43.72 | -8.60 | -52.32 | -13.00 | 39.32 | Horizontal |
| 2133.00 | -44.66 | -7.54 | -52.20 | -13.00 | 39.20 | Horizontal |
| 2844.00 | -48.25 | -3.85 | -52.10 | -13.00 | 39.10 | Horizontal |
| <i>Remark:</i> | | | | | | |
| <i>The emission levels of below 1 GHz are lower than the limit 20dB and not show in test report.</i> | | | | | | |

LTE Band 66 part:

| Band 66 (1.4MHz) | | | | | | |
|--|----------------------------------|-------------|-------------------------------|------------------|-------------|--------------|
| Lowest channel | | | | | | |
| Frequency (MHz) | Level at antenna terminals (dBm) | Factor (dB) | Spurious Emission level (dBm) | Limit Line (dBm) | Margin (dB) | Polarization |
| 3421.40 | -33.85 | -7.52 | -41.37 | -13.00 | 28.37 | Vertical |
| 5132.10 | -42.74 | -1.45 | -44.19 | -13.00 | 31.19 | Vertical |
| 6842.80 | -48.14 | 3.48 | -44.66 | -13.00 | 31.66 | Vertical |
| 3421.40 | -35.39 | -7.52 | -42.91 | -13.00 | 29.91 | Horizontal |
| 5132.10 | -47.72 | -1.45 | -49.17 | -13.00 | 36.17 | Horizontal |
| 6842.80 | -48.35 | 3.48 | -44.87 | -13.00 | 31.87 | Horizontal |
| Middle channel | | | | | | |
| Frequency (MHz) | Level at antenna terminals (dBm) | Factor (dB) | Spurious Emission level (dBm) | Limit Line (dBm) | Margin (dB) | Polarization |
| 3490.00 | -34.12 | -6.98 | -41.10 | -13.00 | 28.10 | Vertical |
| 5235.00 | -42.71 | -0.84 | -43.55 | -13.00 | 30.55 | Vertical |
| 6980.00 | -48.21 | 3.10 | -45.11 | -13.00 | 32.11 | Vertical |
| 3490.00 | -35.39 | -6.98 | -42.37 | -13.00 | 29.37 | Horizontal |
| 5235.00 | -48.16 | -0.84 | -49.00 | -13.00 | 36.00 | Horizontal |
| 6980.00 | -48.14 | 3.10 | -45.04 | -13.00 | 32.04 | Horizontal |
| Highest channel | | | | | | |
| Frequency (MHz) | Level at antenna terminals (dBm) | Factor (dB) | Spurious Emission level (dBm) | Limit Line (dBm) | Margin (dB) | Polarization |
| 3558.60 | -33.66 | -6.75 | -40.41 | -13.00 | 27.41 | Vertical |
| 5337.90 | -43.00 | -0.37 | -43.37 | -13.00 | 30.37 | Vertical |
| 7117.20 | -47.65 | 3.51 | -44.14 | -13.00 | 31.14 | Vertical |
| 3558.60 | -35.38 | -6.75 | -42.13 | -13.00 | 29.13 | Horizontal |
| 5337.90 | -47.64 | -0.37 | -48.01 | -13.00 | 35.01 | Horizontal |
| 7117.20 | -48.26 | 3.51 | -44.75 | -13.00 | 31.75 | Horizontal |
| <i>Remark:</i> | | | | | | |
| <i>The emission levels of below 1 GHz are lower than the limit 20dB and not show in test report.</i> | | | | | | |

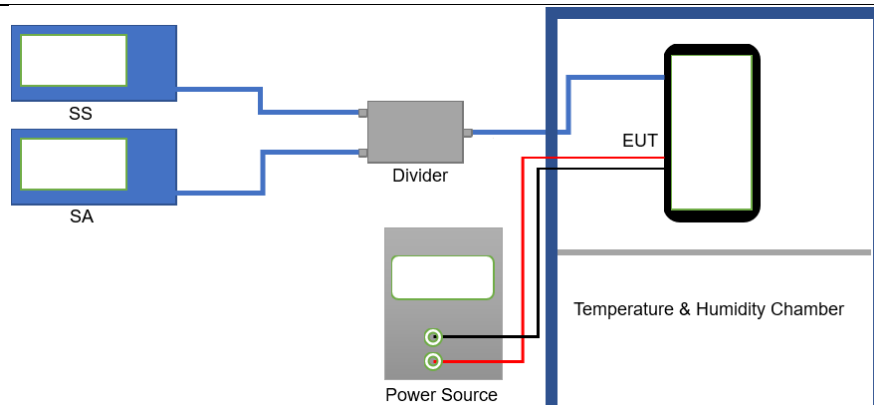
| Band 66 (20MHz) | | | | | | |
|--|----------------------------------|-------------|-------------------------------|------------------|-------------|--------------|
| Lowest channel | | | | | | |
| Frequency (MHz) | Level at antenna terminals (dBm) | Factor (dB) | Spurious Emission level (dBm) | Limit Line (dBm) | Margin (dB) | Polarization |
| 3440.00 | -32.97 | -7.39 | -40.36 | -13.00 | 27.36 | Vertical |
| 5160.00 | -43.00 | -1.22 | -44.22 | -13.00 | 31.22 | Vertical |
| 6880.00 | -47.24 | 3.66 | -43.58 | -13.00 | 30.58 | Vertical |
| 3440.00 | -35.91 | -7.39 | -43.30 | -13.00 | 30.30 | Horizontal |
| 5160.00 | -48.48 | -1.22 | -49.70 | -13.00 | 36.70 | Horizontal |
| 6880.00 | -47.62 | 3.66 | -43.96 | -13.00 | 30.96 | Horizontal |
| Middle channel | | | | | | |
| Frequency (MHz) | Level at antenna terminals (dBm) | Factor (dB) | Spurious Emission level (dBm) | Limit Line (dBm) | Margin (dB) | Polarization |
| 3490.00 | -33.14 | -6.98 | -40.12 | -13.00 | 27.12 | Vertical |
| 5235.00 | -42.91 | -0.84 | -43.75 | -13.00 | 30.75 | Vertical |
| 6980.00 | -46.92 | 3.10 | -43.82 | -13.00 | 30.82 | Vertical |
| 3490.00 | -35.53 | -6.98 | -42.51 | -13.00 | 29.51 | Horizontal |
| 5235.00 | -48.59 | -0.84 | -49.43 | -13.00 | 36.43 | Horizontal |
| 6980.00 | -47.92 | 3.10 | -44.82 | -13.00 | 31.82 | Horizontal |
| Highest channel | | | | | | |
| Frequency (MHz) | Level at antenna terminals (dBm) | Factor (dB) | Spurious Emission level (dBm) | Limit Line (dBm) | Margin (dB) | Polarization |
| 3540.00 | -33.19 | -6.81 | -40.00 | -13.00 | 27.00 | Vertical |
| 5310.00 | -42.82 | -0.55 | -43.37 | -13.00 | 30.37 | Vertical |
| 7080.00 | -47.38 | 3.37 | -44.01 | -13.00 | 31.01 | Vertical |
| 3540.00 | -35.31 | -6.81 | -42.12 | -13.00 | 29.12 | Horizontal |
| 5310.00 | -48.12 | -0.55 | -48.67 | -13.00 | 35.67 | Horizontal |
| 7080.00 | -47.87 | 3.37 | -44.50 | -13.00 | 31.50 | Horizontal |
| <i>Remark:</i> | | | | | | |
| <i>The emission levels of below 1 GHz are lower than the limit 20dB and not show in test report.</i> | | | | | | |

6.6 Frequency stability V.S. Temperature measurement

| | |
|-------------------|---|
| Test Requirement: | Part 22.355, Part 24.235, Part 27.54, Part 2.1055(a)(1)(b) |
| Limit: | ±2.5 ppm for Band 5 Within authorized band for Band 2 & 4 & 12 & 17 & 66 |
| Test setup: |  <p>The diagram illustrates the test setup. A Power Source is connected to a Divider. The Divider is connected to two sensors, SS and SA, and an EUT (Equipment Under Test) inside a Temperature & Humidity Chamber. The EUT is also connected to an external DC power supply.</p> |
| Test procedure: | <ol style="list-style-type: none"> 1. The equipment under test was connected to an external DC power supply and input rated voltage. 2. RF output was connected to a frequency counter or spectrum analyzer via feed through attenuators. 3. The EUT was placed inside the temperature chamber. 4. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and measure EUT 25°C operating frequency as reference frequency. 5. Turn EUT off and set the chamber temperature to -30°C. After the temperature stabilized for approximately 30 minutes recorded the frequency. 6. Repeat step measure with 10°C increased per stage until the highest temperature of +50°C reached |
| Test Instruments: | Refer to section 5.10 for details |
| Test mode: | Refer to section 5.3 for details |
| Test results: | Passed |

Measurement Data: Refer to Appendix F – LTE

6.7 Frequency stability V.S. Voltage measurement

| | |
|-------------------|--|
| Test Requirement: | Part 22.355, Part 24.235, Part 27.54, Part 2.1055(d)(2) |
| Limit: | ±2.5 ppm for Band 5 Within authorized band for Band 2 & 4 & 12 & 17 & 66 |
| Test setup: |  |
| Test procedure: | <ol style="list-style-type: none"> 1. Set chamber temperature to 25°C. Use a variable DC power source to power the EUT and set the voltage to rated voltage. 2. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and recorded the frequency. 3. Reduce the input voltage to specify extreme voltage variation (+/- 15%) and endpoint, record the maximum frequency change. |
| Test Instruments: | Refer to section 5.10 for details |
| Test mode: | Refer to section 5.3 for details |
| Test results: | Passed |

Measurement Data: Refer to Appendix F – LTE

8 EUT Constructional Details

Reference to the test report No. JYTSZB-R12-2101755

-----End of report-----