

| | |
|---|--------------------------------|
| Product Name: Smart Phone | Report No: ITEZA2-202500034RF7 |
| Product Model: Blade20 Turbo, Blade20 Max, Blade20 Play, Blade20 Pro Max, Blade20 Power, Blade20 Plus, Blade20 Energy, Blade20 Pro Energy, Blade20 Ultra Energy, Blade20 Max Energy, Blade20 Play Energy, Blade20 X | Security Classification: Open |
| Version: V1.0 | Total Page: 44 |

TIRT Testing Report

| Prepared By: | Checked By: | Approved By: |  |
|--------------|-------------|--------------|---|
| Aaron Long | Stone Tang | Joky Wang | |
| Aaron Long | Stone Tang | Joky Wang | |

RF TEST REPORT

FCC ID: 2AX4YBLADE20TURBO

According to

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 C

FCC CFR Title 47 Part 90 Subpart S

ANSI C63.26:2015

KDB 971168 D01 Power Meas License Digital Systems v03r01

| | |
|---------------|--|
| Applicant: | Shenzhen DOOGEE Hengtong Technology CO.,LTD |
| Address: | B, 2/F, Building A4, Silicon Valley Power Digital Industrial Park, No. 22, Longhua New District, Shenzhen, China |
| Manufacturer: | Shenzhen DOOGEE Hengtong Technology CO.,LTD |
| Address: | B, 2/F, Building A4, Silicon Valley Power Digital Industrial Park, No. 22, Longhua New District, Shenzhen, China |
| Sample No: | 1000055016 |
| Product Name: | Smart Phone |
| Brand Name: | DOOGEE |
| Model No.: | Blade20 Turbo, Blade20 Max, Blade20 Play, Blade20 Pro Max, Blade20 Power, Blade20 Plus, Blade20 Energy, Blade20 Pro Energy, Blade20 Ultra Energy, Blade20 Max Energy, Blade20 Play Energy, Blade20 X |
| Test No.: | Blade20 Turbo |

| | |
|------------------|-----------------------|
| Date of Receipt: | 2025/02/18 |
| Date of Test: | 2025/02/18~2025/03/19 |
| Issued Date: | 2025/03/26 |
| Testing Lab: | TIRT |

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History of this test report

Original Report Issue Date: 2025.03.26

- No additional attachment
- Additional attachments were issued following record

1 TEST SUMMARY

| Test Item | Section in CFR 47 | Result |
|--|--|-----------------------------------|
| RF Exposure (SAR) | Part 1.1307 Part 2.1093 | Pass*(Please refer to SAR Report) |
| RF Output Power | Part 2.1046 Part 22.913(a) Part 24.232(b) Part 27.50(b) Part 27.50(c) Part 27.50(d) Part 27.50(h) Part 90.635 | Pass |
| Peak-To-Average Ratio | Part 2.1046 Part 22.913(d) Part 24.232 (d) Part 27.50(d) | Pass |
| Modulation Characteristics | Part 2.1047 | N/A |
| 99% & -26 dB Occupied Bandwidth | Part 2.1049 Part 22.917 Part 24.238 Part 27.53(a) | Pass |
| Spurious Emissions at Antenna Terminal | Part 2.1051 Part 22.917 Part 24.238 Part 27.53(c)(f) Part 27.53(g) Part 27.53(h) Part 27.53(m) Part 90.691 | Pass |
| Field Strength of Spurious Radiation | Part 2.1053 Part 22.917 Part 24.238 Part 27.53(c)(f) Part 27.53(g) Part 27.53(h) Part 27.53(m) Part 90.691 | Pass |

| | | |
|-------------------------------------|---|------|
| Out of band emission, Band Edge | Part 2.1051 Part 22.917 Part 24.238 Part 27.53(c)(f) Part 27.53(g) Part 27.53(h) Part 27.53(m) Part 90.691 | Pass |
| Frequency stability vs. temperature | Part 2.1055(a)(1)(b) Part 22.355 Part 24.235 Part 27.54 Part 90.213 | Pass |
| Frequency stability vs. voltage | Part 2.1055(d)(1)(2) Part 22.355 Part 24.235 Part 27.54 Part 90.213 | Pass |

Note: 1. Pass: The EUT complies with the essential requirements in the standard.

2. The conclusion of this test report is judged by actual test data without considering measurement uncertainty.

2 GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

Description of Device (EUT)

| | |
|-------------------|--|
| EUT Name | : Smart Phone |
| Model No. | : Blade20 Turbo, Blade20 Max, Blade20 Play, Blade20 Pro Max, Blade20 Power, Blade20 Plus, Blade20 Energy, Blade20 Pro Energy, Blade20 Ultra Energy, Blade20 Max Energy, Blade20 Play Energy, Blade20 X |
| DIFF. | : There is no difference except the name of the model. All tests are made with the Blade20 Turbo model. |
| Power supply | : DC 3.87V from battery or DC 11V AC Power Adapter |
| Support Bands | : LTE Band 2/4/5/7/25/26/38//41/66 |
| Channel Bandwidth | : LTE Band 2: 1.4MHz, 3MHz, 5MHz, 10MHz, 15MHz, 20MHz LTE Band 4: 1.4MHz, 3MHz, 5MHz, 10MHz, 15MHz, 20MHz LTE Band 5: 1.4MHz, 3MHz, 5MHz, 10MHz LTE Band 7: 5MHz, 10MHz, 15MHz, 20MHz LTE Band 25: 1.4MHz, 3MHz, 5MHz, 10MHz, 15MHz, 20MHz LTE Band 26: 1.4MHz, 3MHz, 5MHz, 10MHz, 15MHz LTE Band 38: 5MHz, 10MHz, 15MHz, 20MHz LTE Band 41: 5MHz, 10MHz, 15MHz, 20MHz LTE Band 66: 1.4MHz, 3MHz, 5MHz, 10MHz, 15MHz, 20MHz |
| TX Frequency | : LTE Band 2: 1850 ~ 1910 MHz LTE Band 4: 1710 ~ 1755 MHz LTE Band 5: 824 ~ 849 MHz LTE Band 7: 2500 ~2570 MHz LTE Band 25: 1850 MHz ~ 1915 MHz LTE Band 26: 814 MHz ~ 849 MHz LTE Band 38: 2570 MHz ~ 2620 MHz LTE Band 41: 2535MHz ~ 2655MHz LTE Band 66: 1710 MHz ~ 1780 MHz |
| Modulation type | : QPSK, 16QAM |
| Antenna Type | : PIFA antenna, LTE Band 2: Maximum Gain is 1.16dBi. LTE Band 4: Maximum Gain is 1.08dBi. LTE Band 5: Maximum Gain is -2.36Bi. LTE Band 7: Maximum Gain is 0.88Bi. LTE Band 25: Maximum Gain is 1.16dBi. LTE Band 26: Maximum Gain is -2.36dBi. LTE Band 38: Maximum Gain is 0.88dBi. LTE Band 41: Maximum Gain is 0.88dBi. LTE Band 66: Maximum Gain is 1.16dBi. Antenna information is provided by applicant. There is WWAN diversity antenna inside the product, which is only for receiving function. |
| Software version | : DOOGEE-Blade20 Turbo-EEA-Android15.0-20250221 |
| Hardware version | : M1703-MUB-V2 |

Remark 1: The worst-case simultaneous transmission configuration was evaluated with no non-compliance found. Results in this report are only for 4G function, and there is no other transmitter involved.

2: The LTE Band41 upports frequency is 2535-2655MHz, Due to actual customer needs

Using software, the prototype can only operate at 2535-2655 MHZ, other frequencies have been blocked

2.2 RELATED SUBMITTAL(S) / GRANT (S)

This submittal(s) (test report) is filing to comply with Section Part 22 subpart H and Part 24 subpart E of the FCC CFR 47 Rules.

2.3 TEST FACILITY

| | |
|--|---|
| Company: | Beijing TIRT Technology Service Co.,Ltd Shenzhen |
| Address: | 104 Building C, Xinxingsheng Industrial Park No.132, Zhangge Old Village East Zone, Zhangge Community, Fucheng Street, Longhua District, Shenzhen, Guangdong, P. R. China |
| CNAS Registration Number: | CNAS L14158 |
| A2LA Registration Number: | 6049.01 |
| FCC Accredited Lab.Designation Number: | CN1366 |
| FCC Test Firm Registration Number: | 820690 |
| Telephone: | +86-0755-27087573 |

2.4 ACCESSORIES OF DEVICE (EUT)

Accessories : AC Power Adapter

Manufacturer : Shenzhen DOOGEE Hengtong Technology CO.,LTD

Model : TP303C-US

Input: AC100-240V~ 50/60Hz 0.7A Max

Ratings : Output: USB-C: 5.0V=3.0A 15.0W; 9.0V=3.0A 27.0W; 12.0V=2.5A 30.0W;
15.0V=2.0A 30.0W; 20.0V=1.5A 30.0W

PPS: 5.0-11.0V=3.0A 33.0W

Power: 33.0W

2.5 TESTED SUPPORTING SYSTEM DETAILS

| No. | Description | Manufacturer | Model | Serial Number | Certification or SDoC |
|-----|-------------|--------------|-------|---------------|-----------------------|
| 1 | N/A | N/A | N/A | N/A | N/A |

2.6 TEST CONDITIONS

| Items | Required | Actual |
|--------------------|-----------|--------|
| Temperature range: | 15-35°C | 24°C |
| Humidity range: | 25-75% | 56% |
| Pressure range: | 86-106kPa | 98kPa |

2.7 MEASUREMENT UNCERTAINTY

| Uncertainty | |
|---|-------------|
| Parameter | Uncertainty |
| Occupied Channel Bandwidth | ±142.12 KHz |
| RF power conducted | ±0.74 dB |
| RF power radiated | ±3.25dB |
| Spurious emissions, conducted | ±1.78dB |
| Spurious emissions, radiated (9KHz~30MHz) | ±2.56dB |
| Spurious emissions, radiated (30MHz~1GHz) | ±4.6dB |
| Spurious emissions, radiated (Above 1GHz) | ±4.9dB |
| Conduction Emissions(150kHz~30MHz) | ±3.1 dB |
| Humidity | ±4.6% |
| Temperature | ±0.7°C |
| Time | ±1.25% |

3 TEST INSTRUMENTS LIST

| Name of Equipment | Manufacturer | Model Number | Serial Number | Last Calibration | Due Calibration |
|-------------------------------|-----------------|----------------------|--------------------------|------------------|-----------------|
| EMI Receiver | Rohde&Schwarz | ESIB 40 | YH-TIRT-SAC-966-20220911 | 2025/01/05 | 2026/01/04 |
| Integral Antenna | Schwarzbeck | VULB 9163 | 01314 | 2023/12/11 | 2025/12/10 |
| Integral Antenna | Rohde&Schwarz | HF907 | RSM2991424 | 2023/12/11 | 2025/12/10 |
| Preamplifier | Emtrace | RP01A | '02017 | 2025/01/05 | 2026/01/04 |
| Preamplifier | Schwarzbeck | BBV9744 | 00143 | 2025/01/05 | 2026/01/04 |
| Loop Antenna | ZHINAN | ZN30900A | 12024 | 2025/01/05 | 2026/01/04 |
| Exposure Level Tester | narda | ELT-400 | N-0925 | 2025/01/05 | 2026/01/04 |
| Horn Antenna | Schwarzbeck | BBHA9170 | 00956 | 2025/01/05 | 2026/01/04 |
| RF Cable | / | LMR400UF-NMNM-7.0M | / | 2025/01/05 | 2026/01/04 |
| RF Cable | / | SFT2050PUR-NMNM-7.0M | / | 2025/01/05 | 2026/01/04 |
| EMI Receiver | Rohde&Schwarz | ESR7 | 1316.3003K07-102611-mk | 2024/11/02 | 2025/11/01 |
| LISN | Rohde&Schwarz | ENV216 | 3560.655.12-102915-Bp | 2024/11/02 | 2025/11/01 |
| ISN | Schwarzbeck | ENY81 | 1309.8510.03 | 2025/01/05 | 2026/01/04 |
| ISN | Schwarzbeck | ENY81-CAT6 | 1309.8526.03-101976-kh | 2025/01/05 | 2026/01/04 |
| RF Cable | \ | SFT2050PUR-NMNM-2.0M | \ | 2025/01/05 | 2026/01/04 |
| CMW500 | ROHDE&SCHWARZ | CMW500 | 120434 | 2025/01/05 | 2026/01/04 |
| Spectrum analyzer | ROHDE&SCHWARZ | FSU26 | 200732 | 2025/01/05 | 2026/01/04 |
| Spectrum analyzer | ROHDE&SCHWARZ | FSV40-N | 101722 | 2025/01/05 | 2026/01/04 |
| vector Signal Generator | KEYSIGHT | N5182B | MY56200458 | 2025/01/05 | 2026/01/04 |
| vector Signal Generator | HEWLETT PACKARD | 83752A | 3610A02458 | 2025/01/05 | 2026/01/04 |
| Filter | HEWLETT PACKARD | JS0806-F | 19K8060209 | 2025/01/05 | 2026/01/04 |
| Wireless comprehensive tester | ANRISTU | MT8821C | SN6262170409 | 2025/01/05 | 2026/01/04 |
| Wireless comprehensive tester | ANRISTU | MT8000A | SN6262166782 | 2025/01/05 | 2026/01/04 |

| | | | | | |
|--|---|-----------------|--------------|------------|------------|
| ROB ANT | Hubei world for communication Co., LTD | SW-700/2700XP-4 | / | 2025/01/05 | 2026/01/04 |
| splitter | Tachoy | TR1029-2 | 20220428P008 | 2025/01/05 | 2026/01/04 |
| Constant temperature and humidity test chamber | Guangzhou Grui testing Equipment Co., LTD | GR-HWX-1000L | GR22080959 | 2024-11-25 | 2025-11-24 |
| Substituted Dipole | Tachoy | TR1048-8 | MY56200157 | 2024-11-25 | 2025-11-24 |

4 SYSTEM TEST CONFIGURATION

4.1 TEST MODE

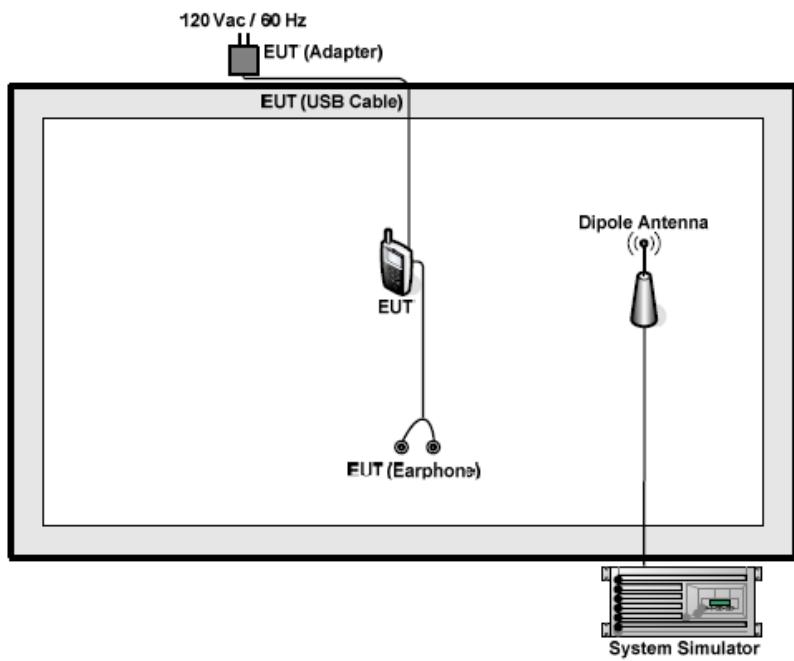
During all testing, EUT is in link mode with base station emulator at maximum power level. The spurious emission measurements were carried out in semi-anechoic chamber with 3-meter test range, and EUT is rotated on three test planes to find out the worst emission.

| Test modes | | |
|--------------------|-------------------------|-------------------------|
| Band | Radiated | Conducted |
| LTE Band 2 | ■ QPSK link, 16QAM link | ■ QPSK link, 16QAM link |
| LTE Band 4 | ■ QPSK link, 16QAM link | ■ QPSK link, 16QAM link |
| LTE Band 5 | ■ QPSK link, 16QAM link | ■ QPSK link, 16QAM link |
| LTE Band 7 | ■ QPSK link, 16QAM link | ■ QPSK link, 16QAM link |
| LTE Band 25 | ■ QPSK link, 16QAM link | ■ QPSK link, 16QAM link |
| LTE Band 26 | ■ QPSK link, 16QAM link | ■ QPSK link, 16QAM link |
| LTE Band 38 | ■ QPSK link, 16QAM link | ■ QPSK link, 16QAM link |
| LTE Band 41 | ■ QPSK link, 16QAM link | ■ QPSK link, 16QAM link |
| LTE Band 66 | ■ QPSK link, 16QAM link | ■ QPSK link, 16QAM link |

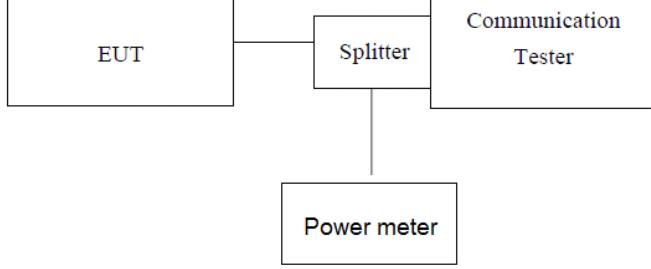
Note: Antenna port conducted and radiated test items were performed according to KDB 971168 D01 Power Meas License Digital Systems v03r1 with maximum output power.

Radiated measurements were performed with rotating EUT in different three orthogonal test planes to find the maximum emission.

4.2 CONFIGURATION OF TESTED SYSTEM



4.3 CONDUCTED OUTPUT POWER

| | |
|-------------------|--|
| Test Requirement: | Part 2.1046,Part 22.913(a), Part 24.232(c), Part 27.50(b), Part 27.50(c), Part 27.50(d), Part 27.50(h), Part 90.635 |
| Test Method: | ANSI C63.26:2015 |
| Limit: | <p>LTE Band 2: 2W</p> <p>LTE Band 4: 1W</p> <p>LTE Band 5: 7W</p> <p>LTE Band 7: 2W</p> <p>LTE Band 25: 2W</p> <p>LTE Band 26 (814-824MHz) : 100W</p> <p>LTE Band 26 (824-849MHz) : 7W</p> <p>LTE Band 38: 2W</p> <p>LTE Band 41: 2W</p> <p>LTE Band 66: 1W</p> |
| Test setup: |  <p><i>Note: Measurement setup for testing on Antenna connector</i></p> |
| Test Procedure: | <ol style="list-style-type: none"> 1. The transmitter output port was connected to base station. 2. The RF output of EUT was connected to the power meter by RF cable and attenuator, the path loss was compensated to the results for each measurement. 3. Set EUT at maximum power through base station. 4. Select lowest, middle, and highest channels for each band and different modulation. 5. Measure the maximum burst average power. |
| Test Instruments: | Refer to section 3 for details |
| Test mode: | Refer to section 4.1 for details |
| Test results: | Pass |

Note: Please refer to Appendix A of the Appendix Test Data.

4.4 PEAK-TO-AVERAGE RATIO

| | |
|-------------------|--|
| Test Requirement: | Part 22.913(d), FCC part24.232(d) and FCC part27.50(d)(5) |
| Test Method: | ANSI C63.26:2015 |
| Test Limit: | Used complementary cumulative distribution function (CCDF) of analyzer to determine that PAPR will not exceed 13 dB for more than 0.1 percent of the time |
| Test setup: | <p><i>Note: Measurement setup for testing on Antenna connector</i></p> |
| Test Procedure: | <ol style="list-style-type: none">1. The testing follows FCC KDB 971168 D01 v03r01 Section 5.72. The EUT was connected to spectrum and system simulator via a power divider3. Using the CCDF measurement of spectrum analyzer;4. Set RBW\geqOBW or specified reference bandwidth;5. Set the number of counts to a value that stabilizes the measured CCDF curve;6. Set the measurement interval as 1ms7. Record the maximum PAPR level associated with a probability of 0.1%. |
| Test Instruments: | Refer to section 3 for details |
| Test mode: | Refer to section 4.1 for details |
| Test results: | Pass |

Note: Please refer to Appendix B of the Appendix Test Data.

4.5 OCCUPY BANDWIDTH

| | |
|-------------------|--|
| Test Requirement: | FCC part22.913(a), FCC part24.232(b) and FCC part27.53(a), FCC part 90.209 |
| Test Method: | ANSI C63.26:2015 |
| Test setup: | <p><i>Note: Measurement setup for testing on Antenna connector</i></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, set center frequency to channel center frequency. 2. RBW was set to about 1%-5% of emission OBW, $VBW \geq 3 \times RBW$. 3. Set spectrum analyzer detection mode to peak, and the trace mode to max hold. 4. Use the 99% OBW function, The 99% power OBW can be found on the plot, determine the “-26dB amplitude” as equal to reference value -26dB. |
| Test Instruments: | Refer to section 3 for details |
| Test mode: | Refer to section 4.1 for details |
| Test results: | Pass |

Note: Please refer to Appendix C of the Appendix Test Data.

4.6 MODULATION CHARACTERISTIC

According to FCC § 2.1047(d), Part 24E & Part 27 there is no specific requirement for digital modulation, therefore modulation characteristic is not presented.

4.7 OUT OF BAND EMISSION AT ANTENNA TERMINALS

| | |
|-------------------|---|
| Test Requirement: | Part 2.1051 Part 22.917 Part 24.238 Part 27.53(c)(f) Part 27.53(g) Part 27.53(h) Part 27.53(m) Part 90.691 |
| Test Method: | ANSI C63.26:2015 |
| Limit: | ≤ -13dBm(LTE Band5, 26(824-849MHz)) ≤ -13dBm(LTE Band2,25) ≤ -13dBm(LTE Band4,66) ≤ -25dBm(LTE Band 7, 38, 41) ≤ -13dBm(LTE Band26(814-824MHz)) |
| Test setup: | <pre> graph LR EUT[EUT] --- Splitter[Splitter] Splitter --- CommTester[Communication Tester] Splitter --- Filter[Filter] Filter --- SPA[SPA] </pre> <p><i>Note: Measurement setup for testing on Antenna connector</i></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 The resolution bandwidth of the spectrum analyzer was set at 1MHz, sufficient scans were taken to show the out of band Emissions if any up to 10th harmonic. 3 For the out of band: Set the RBW=1MHz, VBW = 3MHz, Start=30MHz, Stop= 10th harmonic. 4 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 3 for details |
| Test mode: | Refer to section 4.1 for details |
| Test results: | Pass |

Note: Please refer to Appendix D of the Appendix Test Data.

4.8 ERP, EIRP MEASUREMENT

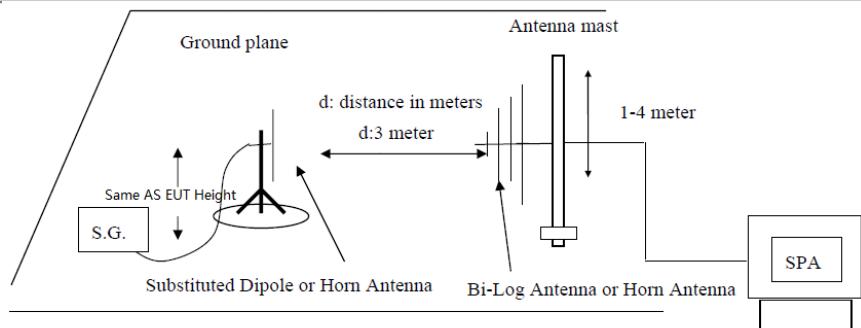
| | |
|-------------------|--|
| Test Requirement: | Part 2.1046, Part 22.913(a), Part 24.232(b), Part 27.50(b), Part 27.50(c), Part 27.50(d), Part 27.50(h), Part 90.635 |
| Test Method: | ANSI C63.26:2015 |
| Limit: | <p>$ERP \leq 7W(38.45dBm)$ (LTE Band 5, 26(824-849MHz))</p> <p>$EIRP \leq 2W(33.00dBm)$ (LTE Band 2,25)</p> <p>$EIRP \leq 1W(30.00dBm)$ (LTE Band 4,66)</p> <p>$EIRP \leq 2W(33.00dBm)$ (LTE Band 7,38,41)</p> <p>$ERP \leq 100W(50.00dBm)$ (LTE Band 26(814-824MHz))</p> |
| Test setup: | <p>Below 1GHz</p> <p>Above 1GHz</p> <p>Substituted method:</p> |

| | |
|-------------------|--|
| Test Procedure: | <ol style="list-style-type: none">1. The EUT was placed on an non-conductive turntable using a non-conductive support. The radiated emission at the fundamental frequency was measured at 3 m with a test antenna and EMI spectrum analyzer.2. During the measurement, the EUT was communication with the station. The highest emission was recorded with the rotation of the turntable and the lowering of the test antenna from 4m to 1m. The reading was recorded and the field strength (E in dBuV/m) was calculated.3. ERP were measured using a substitution method. The EUT was replaced by dipole antenna connected, the S.G. output was recorded and ERP was calculated asfollows: $\text{ERP} = \text{S.G. output (dBm)} + \text{Antenna Gain (dBi)} - \text{Cable Loss (dB)}$4. EIRP were measured using a substitution method. The EUT was replaced by or horn antenna connected, the S.G. output was recorded and EIRP was calculated asfollows: $\text{EIRP} = \text{S.G. output (dBm)} + \text{Antenna Gain (dBi)} - \text{Cable Loss (dB)}$ |
| Test Instruments: | Refer to section 3 for details |
| Test mode: | Refer to section 4.1 for details |
| Test results: | Pass |
| Remark: | H,E1,E2 mean for EUT polarization of X, Y, Z |

Note: Please refer to Appendix A of the Appendix Test Data.

4.9 FIELD STRENGTH OF SPURIOUS RADIATION MEASUREMENT

| | |
|-------------------|--|
| Test Requirement: | Part 2.1053 Part 22.917 Part 24.238 Part 27.53(c)(f) Part 27.53(g) Part 27.53(h) Part 27.53(m) Part 90.691 |
| Test Method: | ANSI C63.26:2015 |
| Limit: | $\leq -13\text{dBm}$ (LTE Band 5, 26(824-849MHz)) $\leq -13\text{dBm}$ (LTE Band 2,25) $\leq -13\text{dBm}$ (LTE Band 4,66) $\leq -25\text{dBm}$ (LTE Band 7, 38, 41) $\leq -13\text{dBm}$ (LTE Band 26(814-824MHz)) |
| Test setup: | <p>Below 1GHz</p> <p>Above 1GHz</p> <p>Substituted method:</p> |


Test Procedure:

1. The EUT was placed on a non-conductive turntable using a non-conductive support. The radiated emission at the fundamental frequency was measured at 3 m with a test antenna and EMI spectrum analyzer.
2. 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.
3. 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.
4. The spurious emissions attenuation was calculated as the difference between radiated power at the fundamental frequency and the spurious emissions frequency.

$$\text{ERP / EIRP} = \text{S.G. output (dBm)} + \text{Antenna Gain(dB/dBi)} - \text{Cable Loss (dB)}$$

Test Instruments:

Refer to section 3 for details

Test mode:

Refer to section 4.1 for details

Test results:

Pass

Measurement Data:

QPSK Mode:

| Test mode: | LTE Band 2(1.4MHz) | | Test channel: | Lowest |
|-----------------|--------------------|-------------|---------------|---------|
| Frequency (MHz) | Spurious Emission | | Limit (dBm) | Result |
| | Polarization | Level (dBm) | | |
| 3731.35 | Vertical | -31.63 | -13.00 | Pass |
| 5599.19 | V | -31.61 | | |
| 7429.85 | V | -30.99 | | |
| 9284.69 | V | -42.86 | | |
| 11256.75 | V | --- | | |
| 3732.41 | Horizontal | -32.99 | | Pass |
| 5524.82 | H | -32.00 | | |
| 7406.25 | H | -37.55 | | |
| 9245.29 | H | -42.24 | | |
| 11233.93 | H | --- | | |
| Test mode: | LTE Band 2(1.4MHz) | | Test channel: | Middle |
| Frequency (MHz) | Spurious Emission | | Limit (dBm) | Result |
| | Polarization | Level (dBm) | | |
| 3732.24 | Vertical | -30.00 | -13.00 | Pass |
| 5642.56 | V | -30.71 | | |
| 7508.62 | V | -32.17 | | |
| 9486.08 | V | -43.34 | | |
| 11409.46 | V | --- | | |
| 3717.55 | Horizontal | -31.86 | | Pass |
| 5674.42 | H | -31.16 | | |
| 7532.68 | H | -38.72 | | |
| 9427.35 | H | -38.31 | | |
| 11330.93 | H | --- | | |
| Test mode: | LTE Band 2(1.4MHz) | | Test channel: | Highest |
| Frequency (MHz) | Spurious Emission | | Limit (dBm) | Result |
| | Polarization | Level (dBm) | | |
| 3833.78 | Vertical | -30.73 | -13.00 | Pass |
| 5745.07 | V | -31.23 | | |
| 7650.32 | V | -32.90 | | |
| 9521.54 | V | -43.34 | | |
| 11607.66 | V | --- | | |
| 3834.84 | Horizontal | -31.80 | | Pass |
| 5747.72 | H | -31.10 | | |
| 7626.12 | H | -37.65 | | |
| 9579.13 | H | -40.71 | | |
| 11532.63 | H | --- | | |

Remark :

1. The emission behaviour belongs to narrowband spurious emission, all modes investigated and only worst case is reported.
2. Remark "---" means that the emission level is too low (20dB lower than the limit) to be measured
3. The emission levels of below 1 GHz are very lower (20dB lower than the limit) than the limit and not show in test report.

| Test mode: | LTE Band 4(1.4MHz) | | Test channel: | Lowest |
|-----------------|--------------------|-------------|---------------|---------|
| Frequency (MHz) | Spurious Emission | | Limit (dBm) | Result |
| | Polarization | Level (dBm) | | |
| 3428.48 | Vertical | -32.53 | -13.00 | Pass |
| 5146.23 | V | -28.42 | | |
| 6872.54 | V | -32.88 | | |
| 8541.94 | V | -44.50 | | |
| 10330.20 | V | --- | | |
| 3429.04 | Horizontal | -31.24 | | |
| 5131.53 | H | -39.63 | | |
| 6869.74 | H | -37.40 | | |
| 8605.67 | H | -34.11 | | |
| 10245.42 | H | --- | | |
| Test mode: | LTE Band 4(1.4MHz) | | Test channel: | Middle |
| Frequency (MHz) | Spurious Emission | | Limit (dBm) | Result |
| | Polarization | Level (dBm) | | |
| 3442.71 | Vertical | -31.53 | -13.00 | Pass |
| 5141.79 | V | -30.47 | | |
| 6980.52 | V | -34.27 | | |
| 8667.52 | V | -43.54 | | |
| 10476.00 | V | --- | | |
| 3471.79 | Horizontal | -32.88 | | |
| 5119.43 | H | -38.30 | | |
| 6965.70 | H | -36.75 | | |
| 8716.75 | H | -35.18 | | |
| 10320.23 | H | --- | | |
| Test mode: | LTE Band 4(1.4MHz) | | Test channel: | Highest |
| Frequency (MHz) | Spurious Emission | | Limit (dBm) | Result |
| | Polarization | Level (dBm) | | |
| 3516.29 | Vertical | -31.22 | -13.00 | Pass |
| 5223.66 | V | -28.31 | | |
| 7032.05 | V | -31.79 | | |
| 8770.50 | V | -44.27 | | |
| 10667.43 | V | --- | | |
| 3545.41 | Horizontal | -31.59 | | |
| 5252.49 | H | -38.99 | | |
| 7060.80 | H | -36.05 | | |
| 8822.71 | H | -37.22 | | |
| 10547.92 | H | --- | | |

Remark:

1. The emission behaviour belongs to narrowband spurious emission, all modes investigated and only worst case is reported.
2. Remark "---" means that the emission level is too low (20dB lower than the limit) to be measured
3. The emission levels of below 1 GHz are very lower (20dB lower than the limit) than the limit and not show in test report.

| Test mode: | LTE Band 5(1.4MHz) | | Test channel: | Lowest |
|-----------------|--------------------|-------------|---------------|---------|
| Frequency (MHz) | Spurious Emission | | Limit (dBm) | Result |
| | Polarization | Level (dBm) | | |
| 1615.54 | Vertical | -32.11 | -13.00 | Pass |
| 2446.60 | V | -32.46 | | |
| 3225.17 | V | -32.81 | | |
| 4144.61 | V | -43.45 | | |
| 5074.24 | V | --- | | |
| 1812.58 | Horizontal | -30.71 | | |
| 2505.04 | H | -39.38 | | |
| 3886.14 | H | -35.24 | | |
| 4313.06 | H | -33.03 | | |
| 5148.53 | H | --- | | |
| Test mode: | LTE Band 5(1.4MHz) | | Test channel: | Middle |
| Frequency (MHz) | Spurious Emission | | Limit (dBm) | Result |
| | Polarization | Level (dBm) | | |
| 1638.82 | Vertical | -31.18 | -13.00 | Pass |
| 2422.64 | V | -29.58 | | |
| 3252.23 | V | -32.29 | | |
| 4288.29 | V | -43.86 | | |
| 5160.18 | V | --- | | |
| 4750.56 | Horizontal | -31.18 | | |
| 2667.73 | H | -38.05 | | |
| 3856.94 | H | -35.91 | | |
| 4426.00 | H | -35.60 | | |
| 5148.21 | H | --- | | |
| Test mode: | LTE Band 5(1.4MHz) | | Test channel: | Highest |
| Frequency (MHz) | Spurious Emission | | Limit (dBm) | Result |
| | Polarization | Level (dBm) | | |
| 1703.72 | Vertical | -34.26 | -13.00 | Pass |
| 2561.66 | V | -32.65 | | |
| 3420.58 | V | -32.29 | | |
| 4370.28 | V | -43.84 | | |
| 5260.58 | V | --- | | |
| 1752.19 | Horizontal | -32.10 | | |
| 2876.59 | H | -38.78 | | |
| 3440.78 | H | -37.51 | | |
| 4395.24 | H | -36.33 | | |
| 5148.12 | H | --- | | |

Remark :

1. The emission behaviour belongs to narrowband spurious emission, all modes investigated and only worst case is reported.
2. Remark "---" means that the emission level is too low (20dB lower than the limit) to be measured
3. The emission levels of below 1 GHz are very lower (20dB lower than the limit) than the limit and not show in test report.

| Test mode: | LTE Band 7(5MHz) | | Test channel: | Lowest |
|-----------------|-------------------|-------------|---------------|---------|
| Frequency (MHz) | Spurious Emission | | Limit (dBm) | Result |
| | Polarization | Level (dBm) | | |
| 5229.90 | Vertical | -30.70 | -25.00 | Pass |
| 4862.15 | V | -28.91 | | |
| 10095.70 | V | -32.10 | | |
| 13595.03 | V | -44.01 | | |
| 15234.56 | V | --- | | |
| 5139.41 | Horizontal | -30.75 | | |
| 7946.27 | H | -38.18 | | |
| 10156.17 | H | -35.34 | | |
| 12813.32 | H | -35.70 | | |
| 15138.57 | H | --- | | |
| Test mode: | LTE Band 7(5MHz) | | Test channel: | Middle |
| Frequency (MHz) | Spurious Emission | | Limit (dBm) | Result |
| | Polarization | Level (dBm) | | |
| 5157.99 | Vertical | -30.26 | -25.00 | Pass |
| 7641.08 | V | -31.49 | | |
| 10225.08 | V | -31.78 | | |
| 13285.54 | V | -44.64 | | |
| 15637.29 | V | --- | | |
| 5131.12 | Horizontal | -33.81 | | |
| 7738.97 | H | -38.84 | | |
| 10278.85 | H | -35.58 | | |
| 13878.24 | H | -33.57 | | |
| 15363.45 | H | --- | | |
| Test mode: | LTE Band 7(5MHz) | | Test channel: | Highest |
| Frequency (MHz) | Spurious Emission | | Limit (dBm) | Result |
| | Polarization | Level (dBm) | | |
| 5240.96 | Vertical | -32.95 | -25.00 | Pass |
| 7884.94 | V | -34.44 | | |
| 10349.56 | V | -30.95 | | |
| 12924.89 | V | -44.43 | | |
| 15442.47 | V | --- | | |
| 5227.37 | Horizontal | -31.65 | | |
| 7739.70 | H | -38.24 | | |
| 10358.66 | H | -36.13 | | |
| 12779.24 | H | -35.97 | | |
| 15364.33 | H | --- | | |

Remark :

1. The emission behaviour belongs to narrowband spurious emission, all modes investigated and only worst case is reported.
2. Remark "---" means that the emission level is too low (20dB lower than the limit) to be measured
3. The emission levels of below 1 GHz are very lower (20dB lower than the limit) than the limit and not show in test report.

| Test mode: | LTE Band 25(5MHz) | | Test channel: | Lowest |
|-----------------|-------------------|-------------|---------------|---------|
| Frequency (MHz) | Spurious Emission | | Limit (dBm) | Result |
| | Polarization | Level (dBm) | | |
| 5134.95 | Vertical | -32.67 | -13.00 | Pass |
| 7638.54 | V | -30.74 | | |
| 10125.37 | V | -34.37 | | |
| 12263.06 | V | -40.73 | | |
| 15331.04 | V | --- | | |
| 5049.56 | Horizontal | -33.56 | | |
| 7541.48 | H | -35.48 | | |
| 10559.82 | H | -30.90 | | |
| 12622.38 | H | -32.94 | | |
| 15241.82 | H | --- | | |
| Test mode: | LTE Band 25(5MHz) | | Test channel: | Middle |
| Frequency (MHz) | Spurious Emission | | Limit (dBm) | Result |
| | Polarization | Level (dBm) | | |
| 5252.11 | Vertical | -31.24 | -13.00 | Pass |
| 7642.96 | V | -28.96 | | |
| 10226.48 | V | -30.57 | | |
| 12543.00 | V | -41.97 | | |
| 15514.24 | V | --- | | |
| 5220.52 | Horizontal | -28.30 | | |
| 7521.45 | H | -31.81 | | |
| 10266.98 | H | -35.19 | | |
| 13592.47 | H | -35.38 | | |
| 15319.07 | H | --- | | |
| Test mode: | LTE Band 25(5MHz) | | Test channel: | Highest |
| Frequency (MHz) | Spurious Emission | | Limit (dBm) | Result |
| | Polarization | Level (dBm) | | |
| 5211.39 | Vertical | -30.36 | -13.00 | Pass |
| 7863.34 | V | -31.94 | | |
| 10012.50 | V | -30.05 | | |
| 12236.66 | V | -44.20 | | |
| 15504.76 | V | --- | | |
| 5307.34 | Horizontal | -33.99 | | |
| 7825.00 | H | -38.48 | | |
| 10404.36 | H | -35.77 | | |
| 12266.82 | H | -33.94 | | |
| 15326.89 | H | --- | | |

Remark :

- 1 The emission behaviour belongs to narrowband spurious emission, all modes investigated and only worst case is reported.
- 2 Remark"---" means that the emission level is too low (20dB lower than the limit) to be measured
- 3 The emission levels of below 1 GHz are very lower (20dB lower than the limit) than the limit and not show in test report.

| Test mode(814-824MHz): | | LTE Band 26(5MHz) | | Test channel: | Lowest |
|------------------------|-------------------|-------------------|-------------|---------------|---------|
| Frequency (MHz) | Spurious Emission | | Limit (dBm) | Result | |
| | Polarization | Level (dBm) | | | |
| 3431.14 | Vertical | -30.86 | -13.00 | Pass | |
| 7819.69 | V | -30.97 | | | |
| 10132.04 | V | -29.16 | | | |
| 12317.37 | V | -43.45 | | | |
| 16343.75 | V | --- | | | |
| 5194.09 | Horizontal | -27.05 | | | |
| 7622.08 | H | -38.26 | | | |
| 10264.24 | H | -36.06 | | | |
| 12593.56 | H | -33.26 | | | |
| 15219.91 | H | --- | | | |
| Test mode(814-824MHz): | | LTE Band 26(5MHz) | | Test channel: | Middle |
| Frequency (MHz) | Spurious Emission | | Limit (dBm) | Result | |
| | Polarization | Level (dBm) | | | |
| 5131.93 | Vertical | -28.88 | -13.00 | Pass | |
| 7644.28 | V | -28.20 | | | |
| 10248.45 | V | -30.92 | | | |
| 13279.91 | V | -41.39 | | | |
| 15650.54 | V | --- | | | |
| 5237.48 | Horizontal | -28.21 | | | |
| 7700.98 | H | -32.44 | | | |
| 10285.66 | H | -35.05 | | | |
| 12662.15 | H | -34.51 | | | |
| 15268.94 | H | --- | | | |
| Test mode(814-824MHz): | | LTE Band 26(5MHz) | | Test channel: | Highest |
| Frequency (MHz) | Spurious Emission | | Limit (dBm) | Result | |
| | Polarization | Level (dBm) | | | |
| 5228.62 | Vertical | -33.01 | -13.00 | Pass | |
| 7827.77 | V | -29.25 | | | |
| 10349.88 | V | -33.30 | | | |
| 12869.78 | V | -41.76 | | | |
| 15444.78 | V | --- | | | |
| 5143.71 | Horizontal | -31.36 | | | |
| 7825.02 | H | -37.26 | | | |
| 10344.53 | H | -34.22 | | | |
| 12998.03 | H | -34.88 | | | |
| 15270.84 | H | --- | | | |

Remark :

- 1 The emission behaviour belongs to narrowband spurious emission, all modes investigated and only worst case is reported.
- 2 Remark "---" means that the emission level is too low (20dB lower than the limit) to be measured
- 3 The emission levels of below 1 GHz are very lower (20dB lower than the limit) than the limit and not show in test report.

| Test mode(824-849MHz): | | LTE Band 26(5MHz) | | Test channel: | Lowest |
|------------------------|-------------------|-------------------|-------------|---------------|---------|
| Frequency (MHz) | Spurious Emission | | Limit (dBm) | Result | |
| | Polarization | Level (dBm) | | | |
| 3915.86 | Vertical | -31.92 | -13.00 | Pass | |
| 5703.90 | V | -28.53 | | | |
| 10252.26 | V | -30.14 | | | |
| 12295.72 | V | -43.70 | | | |
| 13527.03 | V | --- | | | |
| 3846.20 | Horizontal | -33.81 | | | |
| 7268.53 | H | -36.21 | | | |
| 10307.49 | H | -35.61 | | | |
| 12123.05 | H | -36.00 | | | |
| 13343.72 | H | --- | | | |
| Test mode(824-849MHz): | | LTE Band 26(5MHz) | | Test channel: | Middle |
| Frequency (MHz) | Spurious Emission | | Limit (dBm) | Result | |
| | Polarization | Level (dBm) | | | |
| 3692.61 | Vertical | -31.52 | -13.00 | Pass | |
| 7910.93 | V | -28.30 | | | |
| 10452.14 | V | -29.91 | | | |
| 12034.14 | V | -43.05 | | | |
| 15888.77 | V | --- | | | |
| 3846.15 | Horizontal | -30.76 | | | |
| 7585.45 | H | -38.17 | | | |
| 10487.96 | H | -34.47 | | | |
| 12534.59 | H | -34.91 | | | |
| 15336.97 | H | --- | | | |
| Test mode(824-849MHz): | | LTE Band 26(5MHz) | | Test channel: | Highest |
| Frequency (MHz) | Spurious Emission | | Limit (dBm) | Result | |
| | Polarization | Level (dBm) | | | |
| 3865.85 | Vertical | -29.44 | -13.00 | Pass | |
| 7830.97 | V | -26.11 | | | |
| 10451.62 | V | -32.93 | | | |
| 12341.21 | V | -44.34 | | | |
| 15617.59 | V | --- | | | |
| 3903.96 | Horizontal | -29.71 | | | |
| 7838.63 | H | -36.08 | | | |
| 10457.78 | H | -36.25 | | | |
| 12384.01 | H | -36.75 | | | |
| 15287.35 | H | --- | | | |

Remark :

- 1 The emission behaviour belongs to narrowband spurious emission, all modes investigated and only worst case is reported.
- 2 Remark"---" means that the emission level is too low (20dB lower than the limit) to be measured
- 3 The emission levels of below 1 GHz are very lower (20dB lower than the limit) than the limit and not show in test report.

| Test mode | LTE Band 38(5MHz) | | Test channel: | Lowest |
|-----------------|-------------------|-------------|---------------|---------|
| Frequency (MHz) | Spurious Emission | | Limit (dBm) | Result |
| | Polarization | Level (dBm) | | |
| 2629.67 | Vertical | -30.80 | -25.00 | Pass |
| 5256.87 | V | -31.03 | | |
| 10565.35 | V | -30.39 | | |
| 12217.93 | V | -43.30 | | |
| 13698.17 | V | --- | | |
| 2643.50 | Horizontal | -33.01 | | Pass |
| 5233.72 | H | -37.89 | | |
| 10853.30 | H | -36.93 | | |
| 12305.10 | H | -36.73 | | |
| 13264.79 | H | --- | | |
| Test mode | LTE Band 38(5MHz) | | Test channel: | Middle |
| Frequency (MHz) | Spurious Emission | | Limit (dBm) | Result |
| | Polarization | Level (dBm) | | |
| 2759.40 | Vertical | -28.68 | -25.00 | Pass |
| 5485.00 | V | -32.77 | | |
| 10640.02 | V | -30.96 | | |
| 12867.46 | V | -45.36 | | |
| 15710.23 | V | --- | | |
| 2688.42 | Horizontal | -32.82 | | Pass |
| 5437.17 | H | -36.76 | | |
| 10841.26 | H | -36.47 | | |
| 12310.22 | H | -35.79 | | |
| 15331.36 | H | --- | | |
| Test mode | LTE Band 38(5MHz) | | Test channel: | Highest |
| Frequency (MHz) | Spurious Emission | | Limit (dBm) | Result |
| | Polarization | Level (dBm) | | |
| 2626.94 | Vertical | -30.42 | -25.00 | Pass |
| 6894.74 | V | -32.67 | | |
| 10439.79 | V | -30.71 | | |
| 12727.06 | V | -43.49 | | |
| 15638.33 | V | --- | | |
| 2689.75 | Horizontal | -28.74 | | Pass |
| 5192.57 | H | -37.10 | | |
| 10761.88 | H | -36.65 | | |
| 13307.84 | H | -36.37 | | |
| 16260.71 | H | --- | | |

Remark :

- 1 The emission behaviour belongs to narrowband spurious emission, all modes investigated and only worst case is reported.
- 2 Remark"---" means that the emission level is too low (20dB lower than the limit) to be measured
- 3 The emission levels of below 1 GHz are very lower (20dB lower than the limit) than the limit and not show in test report.

| Test mode | LTE Band 41(5MHz) | | Test channel: | Lowest |
|-----------------|-------------------|-------------|---------------|---------|
| Frequency (MHz) | Spurious Emission | | Limit (dBm) | Result |
| | Polarization | Level (dBm) | | |
| 3676.58 | Vertical | -28.45 | -25.00 | Pass |
| 8634.77 | V | -32.78 | | |
| 10233.15 | V | -33.60 | | |
| 12662.91 | V | -43.46 | | |
| 13375.77 | V | --- | | |
| 3992.09 | Horizontal | -31.93 | | Pass |
| 9811.65 | H | -38.78 | | |
| 10274.14 | H | -37.22 | | |
| 12318.30 | H | -34.45 | | |
| 13164.97 | H | --- | | |
| Test mode | LTE Band 41(5MHz) | | Test channel: | Middle |
| Frequency (MHz) | Spurious Emission | | Limit (dBm) | Result |
| | Polarization | Level (dBm) | | |
| 3578.24 | Vertical | -30.90 | -25.00 | Pass |
| 5976.83 | V | -32.02 | | |
| 8944.97 | V | -32.47 | | |
| 10239.15 | V | -43.59 | | |
| 13803.07 | V | --- | | |
| 5869.97 | Horizontal | -29.77 | | Pass |
| 7236.24 | H | -41.44 | | |
| 10342.13 | H | -34.69 | | |
| 12305.25 | H | -26.60 | | |
| 13262.11 | H | --- | | |
| Test mode | LTE Band 41(5MHz) | | Test channel: | Highest |
| Frequency (MHz) | Spurious Emission | | Limit (dBm) | Result |
| | Polarization | Level (dBm) | | |
| 3116.24 | Vertical | -33.71 | -25.00 | Pass |
| 5637.51 | V | -33.28 | | |
| 8943.57 | V | -33.49 | | |
| 10362.76 | V | -43.58 | | |
| 12876.16 | V | --- | | |
| 5132.53 | Horizontal | -32.89 | | Pass |
| 8675.70 | H | -38.93 | | |
| 10303.22 | H | -35.49 | | |
| 12710.44 | H | -35.99 | | |
| 13592.18 | H | --- | | |

Remark :

- 1 The emission behaviour belongs to narrowband spurious emission, all modes investigated and only worst case is reported.
- 2 Remark"---" means that the emission level is too low (20dB lower than the limit) to be measured
- 3 The emission levels of below 1 GHz are very lower (20dB lower than the limit) than the limit and not show in test report.

| Test mode: | LTE Band 66(1.4MHz) | | Test channel: | Lowest |
|-----------------|---------------------|-------------|---------------|---------|
| Frequency (MHz) | Spurious Emission | | Limit (dBm) | Result |
| | Polarization | Level (dBm) | | |
| 3316.16 | Vertical | -31.72 | -13.00 | Pass |
| 5688.73 | V | -32.96 | | |
| 7306.18 | V | -32.51 | | |
| 8300.47 | V | -44.31 | | |
| 10441.68 | V | --- | | |
| 3334.86 | Horizontal | -33.15 | | |
| 5230.83 | H | -38.63 | | |
| 6951.73 | H | -37.13 | | |
| 8916.30 | H | -37.44 | | |
| 10269.34 | H | --- | | |
| Test mode: | LTE Band 66(1.4MHz) | | Test channel: | Middle |
| Frequency (MHz) | Spurious Emission | | Limit (dBm) | Result |
| | Polarization | Level (dBm) | | |
| 2887.29 | Vertical | -35.78 | -13.00 | Pass |
| 5370.63 | V | -34.98 | | |
| 7517.15 | V | -34.77 | | |
| 9867.28 | V | -45.26 | | |
| 10368.75 | V | --- | | |
| 3022.22 | Horizontal | -33.15 | | |
| 5235.78 | H | -38.33 | | |
| 7652.28 | H | -36.58 | | |
| 8886.32 | H | -35.88 | | |
| 10400.60 | H | --- | | |
| Test mode: | LTE Band 66(1.4MHz) | | Test channel: | Highest |
| Frequency (MHz) | Spurious Emission | | Limit (dBm) | Result |
| | Polarization | Level (dBm) | | |
| 3749.51 | Vertical | -32.01 | -13.00 | Pass |
| 5314.42 | V | -27.87 | | |
| 7234.24 | V | -33.60 | | |
| 8632.93 | V | -46.93 | | |
| 10575.37 | V | --- | | |
| 3335.50 | Horizontal | -32.84 | | |
| 5292.54 | H | -40.55 | | |
| 7329.14 | H | -38.05 | | |
| 8879.69 | H | -36.54 | | |
| 10128.29 | H | --- | | |

Remark :

- 1 The emission behaviour belongs to narrowband spurious emission, all modes investigated and only worst case is reported.
- 2 Remark"---" means that the emission level is too low (20dB lower than the limit) to be measured
- 3 The emission levels of below 1 GHz are very lower (20dB lower than the limit) than the limit and not show in test report.

The emission behaviour belongs to narrowband spurious emission, all modes investigated and only worst

16 QAM Mode:

| Test mode: | LTE Band 2 (1.4MHz) | | Test channel: | Lowest |
|-----------------|---------------------|-------------------|---------------|---------|
| Frequency (MHz) | | Spurious Emission | Limit (dBm) | Result |
| | | Polarization | | |
| 3731.32 | Vertical | -31.66 | -13.00 | Pass |
| 5599.16 | V | -31.64 | | |
| 7429.82 | V | -31.02 | | |
| 9284.66 | V | -42.89 | | |
| 11256.72 | V | --- | | |
| 3732.38 | Horizontal | -33.02 | | |
| 5524.79 | H | -32.03 | | |
| 7406.22 | H | -37.58 | | |
| 9245.26 | H | -42.27 | | |
| 11233.90 | H | --- | | |
| Test mode: | LTE Band 2 (1.4MHz) | | Test channel: | Middle |
| Frequency (MHz) | | Spurious Emission | Limit (dBm) | Result |
| | | Polarization | | |
| 3731.31 | Vertical | -30.93 | -13.00 | Pass |
| 5641.63 | V | -31.64 | | |
| 7507.69 | V | -33.10 | | |
| 9485.15 | V | -44.27 | | |
| 11408.53 | V | --- | | |
| 3716.62 | Horizontal | -32.79 | | |
| 5673.49 | H | -32.09 | | |
| 7531.75 | H | -39.65 | | |
| 9426.42 | H | -39.24 | | |
| 11330.00 | H | --- | | |
| Test mode: | LTE Band 2 (1.4MHz) | | Test channel: | Highest |
| Frequency (MHz) | | Spurious Emission | Limit (dBm) | Result |
| | | Polarization | | |
| 3832.85 | Vertical | -31.66 | -13.00 | Pass |
| 5744.14 | V | -32.16 | | |
| 7649.39 | V | -33.83 | | |
| 9520.61 | V | -44.27 | | |
| 11606.73 | V | --- | | |
| 3833.91 | Horizontal | -32.73 | | |
| 5746.79 | H | -32.03 | | |
| 7625.19 | H | -38.58 | | |
| 9578.20 | H | -41.64 | | |
| 11531.70 | H | --- | | |

Remark :

- 1 The emission behaviour belongs to narrowband spurious emission, all modes investigated and only worst case is reported.
- 2 Remark "---" means that the emission level is too low (20dB lower than the limit) to be measured
- 3 The emission levels of below 1 GHz are very lower (20dB lower than the limit) than the limit and not shown in test report.

| Test mode: | LTE Band 4(1.4MHz) | | Test channel: | Lowest |
|-----------------|--------------------|-------------|---------------|---------|
| Frequency (MHz) | Spurious Emission | | Limit (dBm) | Result |
| | Polarization | Level (dBm) | | |
| 3428.61 | Vertical | -32.40 | -13.00 | Pass |
| 5145.54 | V | -29.11 | | |
| 6872.17 | V | -33.25 | | |
| 8542.11 | V | -44.33 | | |
| 10330.34 | V | --- | | |
| 3429.38 | Horizontal | -30.90 | | |
| 5131.29 | H | -39.87 | | |
| 6870.68 | H | -36.46 | | |
| 8604.90 | H | -34.88 | | |
| 10245.00 | H | --- | | |
| Test mode: | LTE Band 4(1.4MHz) | | Test channel: | Middle |
| Frequency (MHz) | Spurious Emission | | Limit (dBm) | Result |
| | Polarization | Level (dBm) | | |
| 3442.84 | Vertical | -31.40 | -13.00 | Pass |
| 5141.10 | V | -31.16 | | |
| 6980.15 | V | -34.64 | | |
| 8667.69 | V | -43.37 | | |
| 10476.14 | V | --- | | |
| 3471.92 | Horizontal | -31.94 | | |
| 5118.74 | H | -38.72 | | |
| 6965.33 | H | -37.12 | | |
| 8717.09 | H | -35.01 | | |
| 10319.81 | H | --- | | |
| Test mode: | LTE Band 4(1.4MHz) | | Test channel: | Highest |
| Frequency (MHz) | Spurious Emission | | Limit (dBm) | Result |
| | Polarization | Level (dBm) | | |
| 3515.87 | Vertical | -30.28 | -13.00 | Pass |
| 5223.42 | V | -29.08 | | |
| 7032.39 | V | -32.03 | | |
| 8771.44 | V | -44.14 | | |
| 10667.01 | V | --- | | |
| 3545.17 | Horizontal | -32.01 | | |
| 5251.72 | H | -38.05 | | |
| 7060.03 | H | -36.47 | | |
| 8822.84 | H | -37.46 | | |
| 10547.50 | H | --- | | |

Remark:

- 1 The emission behaviour belongs to narrowband spurious emission, all modes investigated and only worst case is reported.
- 2 Remark "---" means that the emission level is too low (20dB lower than the limit) to be measured
- 3 The emission levels of below 1 GHz are very lower (20dB lower than the limit) than the limit and not show in test report.

| Test mode: | LTE Band 5(1.4MHz) | | Test channel: | Lowest |
|-----------------|--------------------|-------------|---------------|---------|
| Frequency (MHz) | Spurious Emission | | Limit (dBm) | Result |
| | Polarization | Level (dBm) | | |
| 1615.31 | Vertical | -32.34 | -13.00 | Pass |
| 2446.37 | V | -32.69 | | |
| 3224.94 | V | -33.04 | | |
| 4144.38 | V | -43.68 | | |
| 5074.01 | V | --- | | |
| 1812.35 | Horizontal | -30.94 | | |
| 2504.81 | H | -39.61 | | |
| 3885.91 | H | -35.47 | | |
| 4312.83 | H | -33.26 | | |
| 5148.30 | H | --- | | |
| Test mode: | LTE Band 5(1.4MHz) | | Test channel: | Middle |
| Frequency (MHz) | Spurious Emission | | Limit (dBm) | Result |
| | Polarization | Level (dBm) | | |
| 1638.53 | Vertical | -31.47 | -13.00 | Pass |
| 2422.35 | V | -29.87 | | |
| 3251.94 | V | -32.58 | | |
| 4288.00 | V | -44.15 | | |
| 5159.89 | V | --- | | |
| 4750.27 | Horizontal | -31.47 | | |
| 2667.44 | H | -38.34 | | |
| 3856.65 | H | -36.20 | | |
| 4425.71 | H | -35.89 | | |
| 5147.92 | H | --- | | |
| Test mode: | LTE Band 5(1.4MHz) | | Test channel: | Highest |
| Frequency (MHz) | Spurious Emission | | Limit (dBm) | Result |
| | Polarization | Level (dBm) | | |
| 1703.25 | Vertical | -34.73 | -13.00 | Pass |
| 2561.19 | V | -33.12 | | |
| 3420.11 | V | -32.76 | | |
| 4369.81 | V | -44.31 | | |
| 5260.11 | V | --- | | |
| 1751.72 | Horizontal | -32.57 | | |
| 2876.12 | H | -39.25 | | |
| 3440.31 | H | -37.98 | | |
| 4394.77 | H | -36.80 | | |
| 5147.65 | H | --- | | |

Remark :

- 1 The emission behaviour belongs to narrowband spurious emission, all modes investigated and only worst case is reported.
- 2 Remark "---" means that the emission level is too low (20dB lower than the limit) to be measured
- 3 The emission levels of below 1 GHz are very lower (20dB lower than the limit) than the limit and not show in test report.

| Test mode: | LTE Band 7(5MHz) | | Test channel: | Lowest |
|-----------------|-------------------|-------------|---------------|---------|
| Frequency (MHz) | Spurious Emission | | Limit (dBm) | Result |
| | Polarization | Level (dBm) | | |
| 5229.38 | Vertical | -31.22 | -25.00 | Pass |
| 4861.63 | V | -29.43 | | |
| 10095.18 | V | -32.62 | | |
| 13594.51 | V | -44.53 | | |
| 15234.04 | V | --- | | |
| 5138.89 | Horizontal | -31.27 | | |
| 7945.75 | H | -38.70 | | |
| 10155.65 | H | -35.86 | | |
| 12812.80 | H | -36.22 | | |
| 15138.05 | H | --- | | |
| Test mode: | LTE Band 7(5MHz) | | Test channel: | Middle |
| Frequency (MHz) | Spurious Emission | | Limit (dBm) | Result |
| | Polarization | Level (dBm) | | |
| 5157.69 | Vertical | -30.56 | -25.00 | Pass |
| 7640.78 | V | -31.79 | | |
| 10224.78 | V | -32.08 | | |
| 13285.24 | V | -44.94 | | |
| 15636.99 | V | --- | | |
| 5130.82 | Horizontal | -34.11 | | |
| 7738.67 | H | -39.14 | | |
| 10278.55 | H | -35.88 | | |
| 13877.94 | H | -33.87 | | |
| 15363.15 | H | --- | | |
| Test mode: | LTE Band 7(5MHz) | | Test channel: | Highest |
| Frequency (MHz) | Spurious Emission | | Limit (dBm) | Result |
| | Polarization | Level (dBm) | | |
| 5240.16 | Vertical | -33.75 | -25.00 | Pass |
| 7884.14 | V | -35.24 | | |
| 10348.76 | V | -31.75 | | |
| 12924.09 | V | -45.23 | | |
| 15441.67 | V | --- | | |
| 5226.57 | Horizontal | -32.45 | | |
| 7738.90 | H | -39.04 | | |
| 10357.86 | H | -36.93 | | |
| 12778.44 | H | -36.77 | | |
| 15363.53 | H | --- | | |

Remark :

- 1 The emission behaviour belongs to narrowband spurious emission, all modes investigated and only worst case is reported.
- 2 Remark "---" means that the emission level is too low (20dB lower than the limit) to be measured
- 3 The emission levels of below 1 GHz are very lower (20dB lower than the limit) than the limit and not show in test report.

| Test mode: | LTE Band 25(5MHz) | | Test channel: | Lowest |
|-----------------|-------------------|-------------|---------------|---------|
| Frequency (MHz) | Spurious Emission | | Limit (dBm) | Result |
| | Polarization | Level (dBm) | | |
| 5135.31 | Vertical | -32.31 | -13.00 | Pass |
| 7638.90 | V | -30.38 | | |
| 10125.73 | V | -34.01 | | |
| 12263.42 | V | -40.37 | | |
| 15331.40 | V | --- | | |
| 5049.92 | Horizontal | -33.20 | | |
| 7541.84 | H | -35.12 | | |
| 10560.18 | H | -30.54 | | |
| 12622.74 | H | -32.58 | | |
| 15242.18 | H | --- | | |
| Test mode: | LTE Band 25(5MHz) | | Test channel: | Middle |
| Frequency (MHz) | Spurious Emission | | Limit (dBm) | Result |
| | Polarization | Level (dBm) | | |
| 5252.75 | Vertical | -30.60 | -13.00 | Pass |
| 7643.60 | V | -28.32 | | |
| 10227.12 | V | -29.93 | | |
| 12543.64 | V | -41.33 | | |
| 15514.88 | V | --- | | |
| 5221.16 | Horizontal | -27.66 | | |
| 7522.09 | H | -31.17 | | |
| 10267.62 | H | -34.55 | | |
| 13593.11 | H | -34.74 | | |
| 15319.71 | H | --- | | |
| Test mode: | LTE Band 25(5MHz) | | Test channel: | Highest |
| Frequency (MHz) | Spurious Emission | | Limit (dBm) | Result |
| | Polarization | Level (dBm) | | |
| 5211.86 | Vertical | -29.89 | -13.00 | Pass |
| 7863.81 | V | -31.47 | | |
| 10012.97 | V | -29.58 | | |
| 12237.13 | V | -43.73 | | |
| 15505.23 | V | --- | | |
| 5307.81 | Horizontal | -33.52 | | |
| 7825.47 | H | -38.01 | | |
| 10404.83 | H | -35.30 | | |
| 12267.29 | H | -33.47 | | |
| 15327.36 | H | --- | | |

Remark :

- 1 The emission behaviour belongs to narrowband spurious emission, all modes investigated and only worst case is reported.
- 2 Remark"---" means that the emission level is too low (20dB lower than the limit) to be measured
- 3 The emission levels of below 1 GHz are very lower (20dB lower than the limit) than the limit and not show in test report.

| Test mode(814-824MHz): | LTE Band 26(5MHz) | | Test channel: | Lowest |
|------------------------|-------------------|-------------|---------------|---------|
| Frequency (MHz) | Spurious Emission | | Limit (dBm) | Result |
| | Polarization | Level (dBm) | | |
| 3430.92 | Vertical | -31.08 | -13.00 | Pass |
| 7819.47 | V | -31.19 | | |
| 10131.82 | V | -29.38 | | |
| 12317.15 | V | -43.67 | | |
| 16343.53 | V | --- | | |
| 5193.87 | Horizontal | -27.27 | | |
| 7621.86 | H | -38.48 | | |
| 10264.02 | H | -36.28 | | |
| 12593.34 | H | -33.48 | | |
| 15219.69 | H | --- | | |
| Test mode(814-824MHz): | LTE Band 26(5MHz) | | Test channel: | Middle |
| Frequency (MHz) | Spurious Emission | | Limit (dBm) | Result |
| | Polarization | Level (dBm) | | |
| 5131.77 | Vertical | -29.04 | -13.00 | Pass |
| 7644.12 | V | -28.36 | | |
| 10248.29 | V | -31.08 | | |
| 13279.75 | V | -41.55 | | |
| 15650.38 | V | --- | | |
| 5237.32 | Horizontal | -28.37 | | |
| 7700.82 | H | -32.60 | | |
| 10285.50 | H | -35.21 | | |
| 12661.99 | H | -34.67 | | |
| 15268.78 | H | --- | | |
| Test mode(814-824MHz): | LTE Band 26(5MHz) | | Test channel: | Highest |
| Frequency (MHz) | Spurious Emission | | Limit (dBm) | Result |
| | Polarization | Level (dBm) | | |
| 5228.32 | Vertical | -33.31 | -13.00 | Pass |
| 7827.47 | V | -29.55 | | |
| 10349.58 | V | -33.60 | | |
| 12869.48 | V | -42.06 | | |
| 15444.48 | V | --- | | |
| 5143.41 | Horizontal | -31.66 | | |
| 7824.72 | H | -37.56 | | |
| 10344.23 | H | -34.52 | | |
| 12997.73 | H | -35.18 | | |
| 15270.54 | H | --- | | |

Remark :

- 1 The emission behaviour belongs to narrowband spurious emission, all modes investigated and only worst case is reported.
- 2 Remark "---" means that the emission level is too low (20dB lower than the limit) to be measured
- 3 The emission levels of below 1 GHz are very lower (20dB lower than the limit) than the limit and not show in test report.

| Test mode(824-849MHz): | | LTE Band 26(5MHz) | | Test channel: | Lowest |
|------------------------|-------------------|-------------------|-------------|---------------|---------|
| Frequency (MHz) | Spurious Emission | | Limit (dBm) | Result | |
| | Polarization | Level (dBm) | | | |
| 3916.13 | Vertical | -31.65 | -13.00 | Pass | |
| 5704.17 | V | -28.26 | | | |
| 10252.53 | V | -29.87 | | | |
| 12295.99 | V | -43.43 | | | |
| 13527.30 | V | --- | | | |
| 3846.47 | Horizontal | -33.54 | | | |
| 7268.80 | H | -35.94 | | | |
| 10307.76 | H | -35.34 | | | |
| 12123.32 | H | -35.73 | | | |
| 13343.99 | H | --- | | | |
| Test mode(824-849MHz): | | LTE Band 26(5MHz) | | Test channel: | Middle |
| Frequency (MHz) | Spurious Emission | | Limit (dBm) | Result | |
| | Polarization | Level (dBm) | | | |
| 3692.41 | Vertical | -31.72 | -13.00 | Pass | |
| 7910.73 | V | -28.50 | | | |
| 10451.94 | V | -30.11 | | | |
| 12033.94 | V | -43.25 | | | |
| 15888.57 | V | --- | | | |
| 3845.95 | Horizontal | -30.96 | | | |
| 7585.25 | H | -38.37 | | | |
| 10487.76 | H | -34.67 | | | |
| 12534.39 | H | -35.11 | | | |
| 15336.77 | H | --- | | | |
| Test mode(824-849MHz): | | LTE Band 26(5MHz) | | Test channel: | Highest |
| Frequency (MHz) | Spurious Emission | | Limit (dBm) | Result | |
| | Polarization | Level (dBm) | | | |
| 3866.73 | Vertical | -28.56 | -13.00 | Pass | |
| 7831.85 | V | -25.23 | | | |
| 10452.50 | V | -32.05 | | | |
| 12342.09 | V | -43.46 | | | |
| 15618.47 | V | --- | | | |
| 3904.84 | Horizontal | -28.83 | | | |
| 7839.51 | H | -35.20 | | | |
| 10458.66 | H | -35.37 | | | |
| 12384.89 | H | -35.87 | | | |
| 15288.23 | H | --- | | | |

Remark :

- 1 The emission behaviour belongs to narrowband spurious emission, all modes investigated and only worst case is reported.
- 2 Remark--- means that the emission level is too low (20dB lower than the limit) to be measured
- 3 The emission levels of below 1 GHz are very lower (20dB lower than the limit) than the limit and not show in test report.

| Test mode | LTE Band 38(5MHz) | | Test channel: | Lowest |
|-----------------|-------------------|-------------|---------------|---------|
| Frequency (MHz) | Spurious Emission | | Limit (dBm) | Result |
| | Polarization | Level (dBm) | | |
| 2628.83 | Vertical | -31.64 | -25.00 | Pass |
| 5256.03 | V | -31.87 | | |
| 10564.51 | V | -31.23 | | |
| 12217.09 | V | -44.14 | | |
| 13697.33 | V | --- | | |
| 2642.66 | Horizontal | -33.85 | | |
| 5232.88 | H | -38.73 | | |
| 10852.46 | H | -37.77 | | |
| 12304.26 | H | -37.57 | | |
| 13263.95 | H | --- | | |
| Test mode | LTE Band 38(5MHz) | | Test channel: | Middle |
| Frequency (MHz) | Spurious Emission | | Limit (dBm) | Result |
| | Polarization | Level (dBm) | | |
| 2758.66 | Vertical | -29.42 | -25.00 | Pass |
| 5484.26 | V | -33.51 | | |
| 10639.28 | V | -31.70 | | |
| 12866.72 | V | -46.10 | | |
| 15709.49 | V | --- | | |
| 2687.68 | Horizontal | -33.56 | | |
| 5436.43 | H | -37.50 | | |
| 10840.52 | H | -37.21 | | |
| 12309.48 | H | -36.53 | | |
| 15330.62 | H | --- | | |
| Test mode | LTE Band 38(5MHz) | | Test channel: | Highest |
| Frequency (MHz) | Spurious Emission | | Limit (dBm) | Result |
| | Polarization | Level (dBm) | | |
| 2627.25 | Vertical | -30.11 | -25.00 | Pass |
| 6895.05 | V | -32.36 | | |
| 10440.10 | V | -30.40 | | |
| 12727.37 | V | -43.18 | | |
| 15638.64 | V | --- | | |
| 2690.06 | Horizontal | -28.14 | | |
| 5192.88 | H | -37.29 | | |
| 10762.19 | H | -36.82 | | |
| 13308.15 | H | -36.07 | | |
| 16261.02 | H | --- | | |

Remark :

- 1 The emission behaviour belongs to narrowband spurious emission, all modes investigated and only worst case is reported.
- 2 Remark "---" means that the emission level is too low (20dB lower than the limit) to be measured
- 3 The emission levels of below 1 GHz are very lower (20dB lower than the limit) than the limit and not show in test report.

| Test mode | LTE Band 41(5MHz) | | Test channel: | Lowest |
|-----------------|-------------------|-------------|---------------|---------|
| Frequency (MHz) | Spurious Emission | | Limit (dBm) | Result |
| | Polarization | Level (dBm) | | |
| 3675.74 | Vertical | -28.81 | -25.00 | Pass |
| 8633.93 | V | -32.55 | | |
| 10232.31 | V | -33.68 | | |
| 12662.07 | V | -44.22 | | |
| 13374.93 | V | --- | | |
| 3991.25 | Horizontal | -32.24 | | |
| 9810.81 | H | -39.52 | | |
| 10273.30 | H | -36.85 | | |
| 12317.46 | H | -35.18 | | |
| 13164.13 | H | --- | | |
| Test mode | LTE Band 41(5MHz) | | Test channel: | Middle |
| Frequency (MHz) | Spurious Emission | | Limit (dBm) | Result |
| | Polarization | Level (dBm) | | |
| 3577.71 | Vertical | -31.43 | -25.00 | Pass |
| 5976.19 | V | -32.66 | | |
| 8944.38 | V | -33.06 | | |
| 10239.48 | V | -43.26 | | |
| 13802.15 | V | --- | | |
| 5870.17 | Horizontal | -29.94 | | |
| 7236.07 | H | -41.24 | | |
| 10341.96 | H | -34.86 | | |
| 12305.79 | H | -26.06 | | |
| 13262.65 | H | --- | | |
| Test mode | LTE Band 41(5MHz) | | Test channel: | Highest |
| Frequency (MHz) | Spurious Emission | | Limit (dBm) | Result |
| | Polarization | Level (dBm) | | |
| 3116.12 | Vertical | -33.83 | -25.00 | Pass |
| 5637.84 | V | -32.77 | | |
| 8944.08 | V | -33.43 | | |
| 10362.41 | V | -43.93 | | |
| 12876.65 | V | --- | | |
| 5132.59 | Horizontal | -32.94 | | |
| 8675.65 | H | -38.19 | | |
| 10303.28 | H | -35.84 | | |
| 12710.58 | H | -36.34 | | |
| 13591.98 | H | --- | | |

Remark :

- 1 The emission behaviour belongs to narrowband spurious emission, all modes investigated and only worst case is reported.
- 2 Remark"---" means that the emission level is too low (20dB lower than the limit) to be measured
- 3 The emission levels of below 1 GHz are very lower (20dB lower than the limit) than the limit and not show in test report.

| Test mode: | LTE Band 66(1.4MHz) | | Test channel: | Lowest |
|-----------------|---------------------|-------------|---------------|---------|
| Frequency (MHz) | Spurious Emission | | Limit (dBm) | Result |
| | Polarization | Level (dBm) | | |
| 3316.85 | Vertical | -31.28 | -13.00 | Pass |
| 5689.17 | V | -32.66 | | |
| 7305.74 | V | -31.82 | | |
| 8300.30 | V | -44.48 | | |
| 10442.27 | V | --- | | |
| 3335.07 | Horizontal | -32.85 | | |
| 5231.52 | H | -38.80 | | |
| 6952.03 | H | -37.30 | | |
| 8916.74 | H | -37.00 | | |
| 10268.64 | H | --- | | |
| Test mode: | LTE Band 66(1.4MHz) | | Test channel: | Middle |
| Frequency (MHz) | Spurious Emission | | Limit (dBm) | Result |
| | Polarization | Level (dBm) | | |
| 2887.19 | Vertical | -35.88 | -13.00 | Pass |
| 5371.32 | V | -34.29 | | |
| 7517.59 | V | -34.94 | | |
| 9867.11 | V | -44.56 | | |
| 10368.96 | V | --- | | |
| 3021.70 | Horizontal | -32.85 | | |
| 5236.48 | H | -38.03 | | |
| 7652.86 | H | -36.75 | | |
| 8886.62 | H | -35.30 | | |
| 10401.19 | H | --- | | |
| Test mode: | LTE Band 66(1.4MHz) | | Test channel: | Highest |
| Frequency (MHz) | Spurious Emission | | Limit (dBm) | Result |
| | Polarization | Level (dBm) | | |
| 3749.79 | Vertical | -31.85 | -13.00 | Pass |
| 5314.58 | V | -27.67 | | |
| 7234.76 | V | -33.27 | | |
| 8633.02 | V | -47.23 | | |
| 10574.89 | V | --- | | |
| 3336.03 | Horizontal | -33.32 | | |
| 5292.70 | H | -40.33 | | |
| 7329.30 | H | -37.53 | | |
| 8879.85 | H | -37.02 | | |
| 10128.45 | H | --- | | |

Remark :

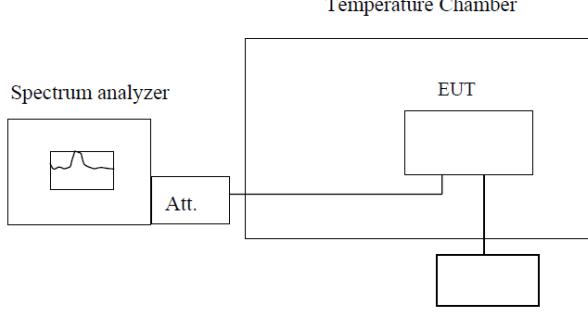
- 1 The emission behaviour belongs to narrowband spurious emission, all modes investigated and only worst case is reported.
- 2 Remark "---" means that the emission level is too low (20dB lower than the limit) to be measured
- 3 The emission levels of below 1 GHz are very lower (20dB lower than the limit) than the limit and not show in test report.

4.10 FREQUENCY STABILITY V.S. TEMPERATURE MEASUREMENT

| | |
|-------------------|--|
| Test Requirement: | Part 2.1055(a)(1)(b), Part 22.355 Part 24.235 , Part 27.54, Part 90.213 |
| Test Method: | ANSI C63.26:2015 |
| Limit: | 2.5ppm(Part 22) Within the authorized bands of operation(Part 24, Part 27) |
| Test setup: | <p style="text-align: center;">Temperature Chamber</p> <p style="text-align: center;">Spectrum analyzer</p> <p style="text-align: center;">Att.</p> <p style="text-align: center;">EUT</p> <p style="text-align: center;">Variable Power Supply</p> <p>Note : Measurement setup for testing on Antenna connector</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 -20°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 3 for details |
| Test mode: | Refer to section 4.1 for details |
| Test results: | Pass |
| Remark: | If all frequencies stability are comply with the lower limit, then all results can be considered qualified |

Note: Please refer to Appendix F of the Appendix Test Data.

4.11 FREQUENCY STABILITY V.S. VOLTAGE MEASUREMENT

| | |
|-------------------|--|
| Test Requirement: | Part 2.1055(d)(1)(2) Part 22.355 Part 24.235 Part 27.54 Part 90.213 |
| Test Method: | ANSI C63.26:2015 |
| Limit: | 2.5ppm Band II & Band VII should be within authorized band. |
| Test setup: |  <p>Note : Measurement setup for testing on Antenna connector</p> |
| Test procedure: | <ol style="list-style-type: none"> 1. Set chamber temperature to 20°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 specified extreme voltage variation (+/- 15%) and endpoint, record the maximum frequency change. |
| Test Instruments: | Refer to section 3 for details |
| Test mode: | Refer to section 4.1 for details |
| Test results: | Pass |
| Remark: | <ol style="list-style-type: none"> 1. Manufacturer specified the battery operating end point voltage is 3.61VDC, max voltage is 4.18VDC. 2. If all frequencies stability are comply with the lower limit, then all results can be considered qualified |

Note: Please refer to Appendix F of the Appendix Test Data.

4.12 TEST SETUP PHOTO

Please reference to the appendix I Test Setup Photo for details.

4.13 PHOTOS OF EUT

Please reference to the appendix II external photos and appendix III internal photos for details.

-----END OF REPORT-----