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|--|---|--|---|--|------------------------------|
| Prüfbericht-Nr.: <i>Test report no.:</i> | CN21N817 001 | Auftrags-Nr.: <i>Order no.:</i> | 168335486 | Seite 1 von 25 <i>Page 1 of 25</i> | |
| Kunden-Referenz-Nr.: <i>Client reference no.:</i> | N/A | Auftragsdatum: <i>Order date:</i> | 2021.09.22 | | |
| Auftraggeber: <i>Client:</i> | Telit Communications S.p.A. Viale Stazione di Prosecco 5/b, 34010, Trieste, Italy | | | | |
| Prüfgegenstand: <i>Test item:</i> | Data Terminal Module | | | | |
| Bezeichnung / Typ-Nr.: <i>Identification / Type no.:</i> | ME310G1-W3 | | | | |
| Auftrags-Inhalt: <i>Order content:</i> | Test Report | | | | |
| Prüfgrundlage: <i>Test specification:</i> | 47 CFR FCC Part 22 47 CFR FCC Part 24 47 CFR FCC Part 27 47 CFR FCC Part 90 47 CFR FCC Part 2 | RSS-132 Issue 3 RSS-133 Issue 6 RSS-130 Issue 2 RSS-139 Issue 3 RSS-140 Issue 1 RSS-Gen Issue 5 | | | |
| Wareneingangsdatum: <i>Date of sample receipt:</i> | 2021.10.15 | Refer to Photo Documentation | | | |
| Prüfmuster-Nr.: <i>Test sample no.:</i> | A003146834- 001/008~011/012~014 | | | | |
| Prüfzeitraum: <i>Testing period:</i> | 2021.10.15~2021.11.09 | | | | |
| Ort der Prüfung: <i>Place of testing:</i> | TÜV Rheinland (Shenzhen) Co., Ltd. | | | | |
| Prüflaboratorium: <i>Testing laboratory:</i> | TÜV Rheinland (Shenzhen) Co., Ltd. | | | | |
| Prüfergebnis*: <i>Test result*:</i> | Pass | | | | |
| geprüft von: <i>tested by:</i> | <u>x Bell Hu</u> | genehmigt von: <i>authorized by:</i> | <u>X Lin Lin</u> | | |
| Datum: <i>Date:</i> | 2021-11-26 <small>Signed by: Bell Hu</small> | Ausstellungsdatum: <i>Issue date:</i> | 2021-11-26 <small>Signed by: Lin Lin</small> | | |
| Stellung / Position: | Project Manager | Stellung / Position: | Reviewer | | |
| Sonstiges / Other: | Sonstiges / Other: | FCC ID: RI7ME310G1W3; IC: 5131A-ME310G1W3 | | | |
| This report is for eMTC operation. | | | | | |
| Zustand des Prüfgegenstandes bei Anlieferung: <i>Condition of the test item at delivery:</i> | Prüfmuster vollständig und unbeschädigt <i>Test item complete and undamaged</i> | | | | |
| * Legende: | 1 = sehr gut P(ass) = entspricht o.g. Prüfgrundlage(n) | 2 = gut F(ail) = entspricht nicht o.g. Prüfgrundlage(n) | 3 = befriedigend N/A = nicht anwendbar | 4 = ausreichend N/T = nicht getestet | 5 = mangelhaft 5 = poor |
| * Legend: | 1 = very good P(ass) = passed a.m. test specification(s) | 2 = good F(ail) = failed a.m. test specification(s) | 3 = satisfactory N/A = not applicable | 4 = sufficient N/T = not tested | 5 = poor N/T = not tested |
| Dieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle nicht auszugsweise vervielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines Prüfzeichens. <i>This test report only relates to the a. m. test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any test mark.</i> | | | | | |

v05

TEST SUMMARY

5.1.1 RF POWER OUTPUT*RESULT: Pass***5.1.2 MODULATION CHARACTERISTICS***RESULT: Pass***5.1.3 OCCUPIED BANDWIDTH AND 26DB BANDWIDTH***RESULT: Pass***5.1.4 SPURIOUS EMISSIONS AT ANTENNA TERMINALS***RESULT: Pass***5.1.5 SPURIOUS EMISSIONS AT ANTENNA TERMINALS – BAND EDGE***RESULT: Pass***5.1.6 FIELD STRENGTH OF SPURIOUS RADIATION***RESULT: Pass***5.1.7 FREQUENCY STABILITY***RESULT: Pass***5.1.8 PEAK TO AVERAGE RATIO***RESULT: Pass*

CONTENTS

| | | |
|--------------|---|-----------|
| 1. | GENERAL REMARKS | 4 |
| 1.1 | COMPLEMENTARY MATERIALS | 4 |
| 1.2 | TEST STANDARD(S) | 4 |
| 2. | TEST SITES..... | 5 |
| 2.1 | TEST FACILITIES | 5 |
| 2.2 | TEST DATE | 5 |
| 2.3 | LIST OF TEST AND MEASUREMENT INSTRUMENTS | 5 |
| 2.4 | TRACEABILITY | 7 |
| 2.5 | CALIBRATION..... | 7 |
| 2.6 | LOCATION OF ORIGINAL DATA | 7 |
| 2.7 | STATUS OF FACILITY USED FOR TESTING | 7 |
| 3. | GENERAL PRODUCT INFORMATION | 8 |
| 3.1 | GENERAL DESCRIPTION | 8 |
| 3.2 | RATING AND SYSTEM DETAILS | 8 |
| 3.3 | INDEPENDENT OPERATION MODES..... | 9 |
| 3.4 | NOISE GENERATING AND NOISE SUPPRESSING PARTS..... | 9 |
| 3.5 | SUBMITTED DOCUMENTS | 9 |
| 4. | TEST SET-UP AND OPERATION MODES..... | 10 |
| 4.1 | PRINCIPLE OF CONFIGURATION SELECTION | 10 |
| 4.2 | TEST OPERATION AND TEST SOFTWARE | 10 |
| 4.3 | SPECIAL ACCESSORIES AND AUXILIARY EQUIPMENT | 13 |
| 4.4 | COUNTERMEASURES TO ACHIEVE EMC COMPLIANCE | 13 |
| 4.5 | TEST SETUP DIAGRAM | 14 |
| 5. | TEST RESULTS | 15 |
| 5.1 | ESSENTIAL REQUIREMENTS OF STANDARD..... | 15 |
| 5.1.1 | <i>RF POWER OUTPUT.....</i> | 15 |
| 5.1.2 | <i>MODULATION CHARACTERISTICS</i> | 17 |
| 5.1.3 | <i>OCCUPIED BANDWIDTH AND 26dB BANDWIDTH</i> | 18 |
| 5.1.4 | <i>SPURIOUS EMISSIONS AT ANTENNA TERMINALS.....</i> | 19 |
| 5.1.5 | <i>SPURIOUS EMISSIONS AT ANTENNA TERMINALS – BAND EDGE.....</i> | 20 |
| 5.1.6 | <i>FIELD STRENGTH OF SPURIOUS RADIATION.....</i> | 21 |
| 5.1.7 | <i>FREQUENCY STABILITY.....</i> | 22 |
| 5.1.8 | <i>PEAK TO AVERAGE RATIO.....</i> | 24 |
| 6. | SYSTEM MEASUREMENT UNCERTAINTY | 25 |
| 7. | LIST OF TABLES..... | 25 |

1. GENERAL REMARKS

1.1 COMPLEMENTARY MATERIALS

All attachments are integral parts of this test report. This applies especially to the following appendix:

Appendix A: Test Results of Band 2 for eMTC operation

Appendix B: Test Results of Band 4 for eMTC operation

Appendix C: Test Results of Band 5 for eMTC operation

Appendix D: Test Results of Band 12 for eMTC operation

Appendix E: Test Results of Band 13 for eMTC operation

Appendix F: Test Results of Band 14 for eMTC operation

Appendix G: Test Results of Band 25 for eMTC operation

Appendix H: Test Results of Band 26 Lower for eMTC operation

Appendix I: Test Results of Band 26 upper for eMTC operation

Appendix J: Test Results of Band 66 for eMTC operation

Appendix K: Test Results of Band 85 for eMTC operation

Appendix L: Test Results of Band 8_39d for eMTC operation

Appendix M: Test Results of Field Strength of Spurious Radiation for eMTC operation

1.2 TEST STANDARD(S)

| | | |
|----------------|--------------------|-----------------|
| Applied Rules: | 47 CFR FCC Part 22 | RSS-130 Issue 2 |
| | 47 CFR FCC Part 24 | RSS-132 Issue 3 |
| | 47 CFR FCC Part 27 | RSS-133 Issue 6 |
| | 47 CFR FCC Part 90 | RSS-139 Issue 3 |
| | 47 CFR FCC Part 2 | RSS-140 Issue 1 |
| | | |
| Test Method: | KDB 971168 D01 | |
| | ANSI C63.26 | |

2. TEST SITES

2.1 TEST FACILITIES

TÜV Rheinland (Shenzhen) Co., Ltd.

(FCC Registration No.: 694916 & IC Registration Number: 25069)

Address: No. 362 Huanguan Road Middle, Longhua District, Shenzhen 518110, P.R. China

A2LA accredited certificate number: 5162.01

2.2 TEST DATE

Date of test: 2021.10.15~2021.11.09

2.3 LIST OF TEST AND MEASUREMENT INSTRUMENTS

Table 1: List of Test and Measurement Equipment

| Description | Manufacturer | Model | Serial No. | Calibrated until (DD.MM.YYYY) |
|-------------------------------------|--------------|----------------------|--------------|----------------------------------|
| Radio Spectrum Testing | | | | |
| Wireless Connectivity Tester | R&S | CMW270 | 101375 | 09.08.2022 |
| Signal Analyzer | R&S | FSV 40 | 101441 | 09.08.2022 |
| Vector Signal Generator | R&S | SMBV100A | 263301 | 09.08.2022 |
| Signal Generator | R&S | SMB100A | 115186 | 09.08.2022 |
| OSP | R&S | OSP 150 | 101017 | 10.12.2021 |
| Control PC | DELL | OptiPlex 7050 | FTJZ9P2 | N/A |
| Test Software | R&S | WMS32 (V11.00.00) | N/A | N/A |
| Power Meter | R&S | NRP2 | 107105 | 10.12.2021 |
| Power Sensor | R&S | NRP-Z81 | 105677 | 09.08.2022 |
| Humid & Temp Programmable Tester | BOST | NTH090-60 | 19040801 | 02.04.2022 |
| Shielding Room 8# | Albatross | SR8 | APC17151-SR8 | 22.06.2024 |
| Unwanted Emission Testing | | | | |
| Signal Generator | R&S | SMB100A | 180840 | 09.08.2022 |
| Wideband Radio Communication Tester | R&S | CMW500 | 165339 | 09.08.2022 |
| Signal Analyzer | R&S | FSV 40 | 101440 | 09.08.2022 |
| System Controller | R&S | SCI-100 | S10010036 | N/A |

Produkte
Products
Prüfbericht - Nr.: CN21N817 001
Test Report No.
Seite 6 von 25
Page 6 of 25

| | | | | |
|---|--------------|-------------------|--------------|------------|
| Interface | | | | |
| Filterbank | R&S | GSM | 100811 | 09.08.2022 |
| OSP | R&S | OSP 120 | 102041 | N/A |
| OSP | R&S | OSP 150 | 101385 | 10.12.2021 |
| Pre-amplifier | R&S | SCU08F1 | 08320030 | 09.08.2022 |
| Amplifier | R&S | SCU-18F | 180079 | 09.08.2022 |
| Amplifier | R&S | SCU40A | 100450 | 09.08.2022 |
| Trilog Broadband Antenna (30 MHz - 7 GHz) | Schwarzbeck | VULB 9162 | 192 | 08.08.2022 |
| Double-Ridged Antenna (1 -18 GHz) | ETS-LINDGREN | 3117 | 00218719 | 08.08.2022 |
| Wideband Ridged Horn Antenna (12-18 GHz) | Steatite | QMS-00208 | 18312 | 08.08.2022 |
| Wideband Ridged Horn Antenna (18-40 GHz) | Steatite | QMS-00880 | 19066 | 08.08.2022 |
| Biconical Broadband Antenna (30 MHz - 1 GHz) | Schwarzbeck | VUBA 9117 | 357 | 02.08.2024 |
| Double Ridged Broadband Horn Antenna (1 – 18 GHz) | Schwarzbeck | BBHA 9120 D | 01760 | 30.07.2024 |
| Broadband Horn Antenna (15 – 40 GHz) | Schwarzbeck | BBHA 9170 | 00862 | 02.08.2024 |
| Test software | R&S | EMC32 (V10.50.40) | N/A | N/A |
| Control PC | Dell | OptiPlex 7050 | 36NW9P2 | N/A |
| 3m Fully Anechoic Chamber | Albatross | FAC-3m | APC17151-FAC | 22.06.2024 |

2.4 Traceability

All measurement equipment calibrations are traceable to NIST or where calibration is performed outside the United States, to equivalent nationally recognized standards organizations.

2.5 Calibration

Equipment requiring calibration is calibrated periodically by the manufacturer or according to manufacturer's specifications. Additionally all equipment is verified for proper performance on a regular basis using in house standards or comparisons.

2.6 Location of Original Data

The original copies of all test data taken during actual testing were attached at Appendixes of this report and delivered to the applicant. A copy has been retained in the TÜV Rheinland (Shenzhen) file for certification follow-up purposes.

2.7 Status of Facility Used for Testing

The TÜV Rheinland (Shenzhen) Co., Ltd. facility located at No. 362 Huanguan Road Middle, Longhua District, Shenzhen 518110, P.R. China is listed on the US Federal Communications Commission list of facilities approved to perform measurements.

3. GENERAL PRODUCT INFORMATION

3.1 GENERAL DESCRIPTION

The EUT is wireless module which supports EMTC wireless technology.

For details refer to the User Manual, Technical Description and Circuit Diagram.

3.2 RATING AND SYSTEM DETAILS

Table 2: Rating of EUT

| General Information of EUT | Description |
|------------------------------|----------------------|
| Kind of Equipment: | Data Terminal Module |
| Type Designation: | ME310G1-W3 |
| FCC ID: | RI7ME310G1W3 |
| IC: | 5131A-ME310G1W3 |
| HVIN: | ME310G1-W3 |
| FVIN: | M0C.900004 |
| Type of Equipment: | Single Module |
| Antenna Type: | External Antenna |
| Operating Voltage: | DC 3.8V |
| Operating Temperature Range: | -40°C ~ +85°C |

Table 3: Technical Specification of EUT

| Characteristic | Description |
|--------------------------------|---|
| Operated Modes: | eMTC |
| Operational Frequency Band(s): | Band 2, Band 4, Band 5, Band 8, Band 12, Band 13, Band 14, Band 25, Band 26, Band 66, Band 85 |
| Nominal RF Output Power: | 23 dBm ± 2dB |
| Modulation Type: | 16QAM, QPSK |
| Antenna Type: | External Antenna The EUT doesn't have antenna, The adapter and antenna used for testing in this report is the after-market accessory |
| Antenna Gain: | 2.14 dBi |
| Device Category: | CAT-M1 |

Table 4: Operating Frequency Range of EUT

| Frequency Band(s) | Frequency Range | | Channel Bandwidth (MHz) |
|-------------------|-----------------------------|--------------------------|-------------------------|
| | Transmitting f_{UL} (MHz) | Receiving f_{DL} (MHz) | |
| Band 2 | 1850 ~ 1910 | 1930 ~ 1990 | 1.4, 3, 5, 10, 15, 20 |
| Band 4 | 1710 ~ 1755 | 2110 ~ 2155 | 1.4, 3, 5, 10, 15, 20 |
| Band 5 | 824 ~ 849 | 869 ~ 894 | 1.4, 3, 5, 10 |
| Band 8 | 897.5 ~ 900.5 | 936.5 ~ 939.5 | 1.4, 3 |
| Band 12 | 699 ~ 716 | 729 ~ 746 | 1.4, 3, 5, 10 |
| Band 13 | 777 ~ 787 | 746 ~ 756 | 5, 10 |
| Band 14 | 788 ~ 798 | 758 ~ 768 | 5, 10 |
| Band 25 | 1850 ~ 1915 | 1930 ~ 1995 | 1.4, 3, 5, 10, 15, 20 |
| Band 26 | 814 ~ 849 | 859 ~ 894 | 1.4, 3, 5, 10, 15 |
| Band 66 | 1710 ~ 1780 | 2110 ~ 2200 | 1.4, 3, 5, 10, 15, 20 |
| Band 85 | 698 ~ 716 | 728 ~ 746 | 5, 10 |

3.3 INDEPENDENT OPERATION MODES

The basic operation modes are:

- A. On, communication link established, Transmitting
 - 1) eMTC operating
 - i. Low channel
 - ii. Middle channel
 - iii. High channel
- B. On, communication link established, Receiving
 - 1) eMTC operating
- C. Idle
- D. Off

3.4 NOISE GENERATING AND NOISE SUPPRESSING PARTS

Refer to the Circuit Diagram.

3.5 SUBMITTED DOCUMENTS

- | | |
|---|--|
| <input checked="" type="checkbox"/> User Manual | <input checked="" type="checkbox"/> Rating Label |
| <input checked="" type="checkbox"/> Circuit Diagram | <input checked="" type="checkbox"/> PCB Layout |
| <input checked="" type="checkbox"/> Block Diagram | <input checked="" type="checkbox"/> Photo Document |
| <input checked="" type="checkbox"/> Schematics | <input checked="" type="checkbox"/> Parts List |
| <input type="checkbox"/> Model Difference Letter | |

4. TEST SET-UP AND OPERATION MODES

4.1 PRINCIPLE OF CONFIGURATION SELECTION

Radio Spectrum: The equipment under test (EUT) was configured at its highest power output in order to measure its highest possible radiation and conducted level. The test modes were adapted accordingly in reference to the instructions for use.

4.2 TEST OPERATION AND TEST SOFTWARE

Test operation refers to test setup in chapter 5. All testing were performed according to the procedure in KDB 971168 D01 and ANSI C63.26.

Table 5: List of Frequencies under Test

| Operation bands | Mode | Channel Bandwidth (MHz) | Frequencies under Test | | | | | |
|-----------------|------|-------------------------|------------------------|-------------------------|--------|-------------------------|--------|--------------------------|
| | | | EARFCN | CH _{Low} (MHz) | EARFCN | CH _{Mid} (MHz) | EARFCN | CH _{High} (MHz) |
| 2 | TX | 1.4 | 18607 | 1850.7 | 18900 | 1880 | 19193 | 1909.3 |
| | | 3 | 18615 | 1851.5 | 18900 | 1880 | 19185 | 1908.5 |
| | | 5 | 18625 | 1852.5 | 18900 | 1880 | 19175 | 1907.5 |
| | | 10 | 18650 | 1855 | 18900 | 1880 | 19150 | 1905 |
| | | 15 | 18675 | 1857.5 | 18900 | 1880 | 19125 | 1902.5 |
| | | 20 | 18700 | 1860 | 18900 | 1880 | 19100 | 1900 |
| | RX | 1.4 | 607 | 1930.7 | 900 | 1960 | 1193 | 1989.3 |
| | | 3 | 615 | 1931.5 | 900 | 1960 | 1185 | 1988.5 |
| | | 5 | 625 | 1932.5 | 900 | 1960 | 1175 | 1987.5 |
| | | 10 | 650 | 1935 | 900 | 1960 | 1150 | 1985 |
| | | 15 | 675 | 1937.5 | 900 | 1960 | 1125 | 1982.5 |
| | | 20 | 700 | 1940 | 900 | 1960 | 1100 | 1980 |
| 4 | TX | 1.4 | 19957 | 1710.7 | 20175 | 1732.5 | 20393 | 1754.3 |
| | | 3 | 19965 | 1711.5 | 20175 | 1732.5 | 20385 | 1753.5 |
| | | 5 | 19975 | 1712.5 | 20175 | 1732.5 | 20375 | 1752.5 |
| | | 10 | 20000 | 1715 | 20175 | 1732.5 | 20350 | 1750 |
| | | 15 | 20025 | 1717.5 | 20175 | 1732.5 | 20325 | 1747.5 |
| | | 20 | 20050 | 1720 | 20175 | 1732.5 | 20300 | 1745 |
| | RX | 1.4 | 1957 | 2110.7 | 2175 | 2132.5 | 2393 | 2154.3 |
| | | 3 | 1965 | 2111.5 | 2175 | 2132.5 | 2385 | 2153.5 |
| | | 5 | 1975 | 2112.5 | 2175 | 2132.5 | 2375 | 2152.5 |
| | | 10 | 2000 | 2115 | 2175 | 2132.5 | 2350 | 2150 |
| | | 15 | 2025 | 2117.5 | 2175 | 2132.5 | 2325 | 2147.5 |
| | | 20 | 2050 | 2120 | 2175 | 2132.5 | 2300 | 2145 |
| 5 | TX | 1.4 | 20407 | 824.7 | 20525 | 836.5 | 20643 | 848.3 |
| | | 3 | 20415 | 825.5 | 20525 | 836.5 | 20635 | 847.5 |
| | | 5 | 20425 | 826.5 | 20525 | 836.5 | 20625 | 846.5 |
| | | 10 | 20450 | 829 | 20525 | 836.5 | 20600 | 844 |
| | RX | 1.4 | 2407 | 869.7 | 2525 | 881.5 | 2643 | 893.3 |
| | | 3 | 2415 | 870.5 | 2525 | 881.5 | 2635 | 892.5 |
| | | 5 | 2425 | 871.5 | 2525 | 881.5 | 2625 | 891.5 |
| | | 10 | 2450 | 874 | 2525 | 881.5 | 2600 | 889 |

| | | | | | | | | |
|--------------------------------------|----|-----|-------|--------|-------|--------|-------|--------|
| 8 | TX | 1.4 | 21632 | 898.2 | 21640 | 899 | 21648 | 899.8 |
| | | 3 | 21640 | 899 | 21640 | 899 | 21640 | 899 |
| | RX | 1.4 | 21632 | 898.2 | 21640 | 899 | 21648 | 899.8 |
| | | 3 | 21640 | 899 | 21640 | 899 | 21640 | 899 |
| 12 | TX | 1.4 | 23017 | 699.7 | 23095 | 707.5 | 23173 | 715.3 |
| | | 3 | 23025 | 700.5 | 23095 | 707.5 | 23165 | 714.5 |
| | | 5 | 23035 | 701.5 | 23095 | 707.5 | 23155 | 713.5 |
| | | 10 | 23060 | 704 | 23095 | 707.5 | 23130 | 711 |
| | RX | 1.4 | 5017 | 729.7 | 5095 | 737.5 | 5173 | 745.3 |
| | | 3 | 5025 | 730.5 | 5095 | 737.5 | 5165 | 744.5 |
| | | 5 | 5035 | 731.5 | 5095 | 737.5 | 5155 | 743.5 |
| | | 10 | 5060 | 734 | 5095 | 737.5 | 5130 | 741 |
| 13 | TX | 5 | 23205 | 779.5 | 23230 | 782 | 23255 | 784.5 |
| | | 10 | 23230 | 782 | 23230 | 782 | 23230 | 782 |
| | RX | 5 | 5205 | 748.5 | 5230 | 751 | 5255 | 753.5 |
| | | 10 | 5230 | 751 | 5230 | 751 | 5230 | 751 |
| 14 | TX | 5 | 23305 | 790.5 | 23330 | 793 | 23355 | 795.5 |
| | | 10 | 23330 | 793 | 23330 | 793 | 23330 | 793 |
| | RX | 5 | 5305 | 760.5 | 5330 | 763 | 5355 | 765.5 |
| | | 10 | 5330 | 763 | 5330 | 763 | 5330 | 763 |
| 25 | TX | 1.4 | 26047 | 1850.7 | 26365 | 1882.5 | 26683 | 1914.3 |
| | | 3 | 26055 | 1851.5 | 26365 | 1882.5 | 26675 | 1913.5 |
| | | 5 | 26065 | 1852.5 | 26365 | 1882.5 | 26665 | 1912.5 |
| | | 10 | 26090 | 1855 | 26365 | 1882.5 | 26640 | 1910 |
| | | 15 | 26115 | 1857.5 | 26365 | 1882.5 | 26615 | 1907.5 |
| | | 20 | 26140 | 1860 | 26365 | 1882.5 | 26590 | 1905 |
| | RX | 1.4 | 8047 | 1930.7 | 8365 | 1962.5 | 8683 | 1994.3 |
| | | 3 | 8055 | 1931.5 | 8365 | 1962.5 | 8675 | 1993.5 |
| | | 5 | 8065 | 1932.5 | 8365 | 1962.5 | 8665 | 1992.5 |
| | | 10 | 8090 | 1935 | 8365 | 1962.5 | 8640 | 1990 |
| | | 15 | 8115 | 1937.5 | 8365 | 1962.5 | 8615 | 1987.5 |
| | | 20 | 8140 | 1940 | 8365 | 1962.5 | 8590 | 1985 |
| 26_Lower Band (814-824 MHz) | TX | 1.4 | 26697 | 814.7 | 26740 | 819 | 26783 | 823.3 |
| | | 3 | 26705 | 815.5 | 26740 | 819 | 26775 | 822.5 |
| | | 5 | 26715 | 816.5 | 26740 | 819 | 26765 | 821.5 |
| | | 10 | 26740 | 819 | 26740 | 819 | 26740 | 819 |
| | RX | 1.4 | 8697 | 859.7 | 8740 | 864 | 8783 | 868.3 |
| | | 3 | 8705 | 860.5 | 8740 | 864 | 8775 | 867.5 |
| | | 5 | 8715 | 861.5 | 8740 | 864 | 8765 | 866.5 |
| | | 10 | 8740 | 864 | 8740 | 864 | 8740 | 864 |
| 26_Upper Band (824-849 MHz) | TX | 1.4 | 26797 | 824.7 | 26915 | 836.5 | 27033 | 848.3 |
| | | 3 | 26805 | 825.5 | 26915 | 836.5 | 27025 | 847.5 |
| | | 5 | 26815 | 826.5 | 26915 | 836.5 | 27015 | 846.5 |
| | | 10 | 26840 | 829 | 26915 | 836.5 | 26990 | 844 |
| | | 15 | 26865 | 831.5 | 26915 | 836.5 | 26965 | 841.5 |
| | RX | 1.4 | 8797 | 869.7 | 8915 | 881.5 | 9033 | 893.3 |
| | | 3 | 8805 | 870.5 | 8915 | 881.5 | 9025 | 892.5 |
| | | 5 | 8815 | 871.5 | 8915 | 881.5 | 9015 | 891.5 |

| | | | | | | | | |
|----|----|-----|--------|--------|--------|-------|--------|--------|
| | | 10 | 8840 | 874 | 8915 | 881.5 | 8990 | 889 |
| | | 15 | 8865 | 876.5 | 8915 | 881.5 | 8965 | 886.5 |
| 66 | TX | 1.4 | 131979 | 1710.7 | 132322 | 1745 | 132665 | 1779.3 |
| | | 3 | 131987 | 1711.5 | 132322 | 1745 | 132657 | 1778.5 |
| | | 5 | 131997 | 1712.5 | 132322 | 1745 | 132647 | 1777.5 |
| | | 10 | 132022 | 1715 | 132322 | 1745 | 132622 | 1775 |
| | | 15 | 132047 | 1717.5 | 132322 | 1745 | 132597 | 1772.5 |
| | RX | 20 | 132047 | 1717.5 | 132322 | 1745 | 132572 | 1770 |
| | | 1.4 | 66443 | 2110.7 | 66786 | 2145 | 67129 | 2179.3 |
| | | 3 | 66451 | 2111.5 | 66786 | 2145 | 67121 | 2178.5 |
| | | 5 | 66461 | 2112.5 | 66786 | 2145 | 67111 | 2177.5 |
| | | 10 | 66486 | 2115 | 66786 | 2145 | 67086 | 2175 |
| 85 | TX | 15 | 66511 | 2117.5 | 66786 | 2145 | 67061 | 2172.5 |
| | | 20 | 66536 | 2120 | 66786 | 2145 | 67036 | 2170 |
| | | 5 | 134027 | 700.5 | 134092 | 707 | 134157 | 713.5 |
| | | 10 | 134052 | 703 | 134092 | 707 | 134132 | 711 |
| | RX | 5 | 70391 | 730.5 | 70456 | 737 | 70521 | 743.5 |
| | | 10 | 70416 | 733 | 70456 | 737 | 70496 | 741 |

Table 6: Test Environments

| Environment Parameter | Selected Values During Tests | | |
|-----------------------|------------------------------|----------------|-------------------|
| | Temperature (°C) | Voltage (V) DC | Relative Humidity |
| Normal (NTNV) | 24 | 3.8 | 51% |
| HTHV | 85 °C | 4.5 | --- |
| LTHV | -40 °C | 4.5 | --- |
| HTLV | 85 °C | 3.2 | --- |
| LTLV | -40 °C | 3.2 | --- |

Table 7: Test Configurations

| Frequency Bands | Bandwidths (MHz) | | | | | | Modulation | |
|-----------------|------------------|---|---|----|----|----|------------|-------|
| | 1.4 | 3 | 5 | 10 | 15 | 20 | QPSK | 16QAM |
| 2 | Δ | Δ | Δ | Δ | Δ | Δ | Δ | Δ |
| 4 | Δ | Δ | Δ | Δ | Δ | Δ | Δ | Δ |
| 5 | Δ | Δ | Δ | Δ | - | - | Δ | Δ |
| 8_39d | Δ | Δ | - | - | - | - | Δ | Δ |
| 12 | Δ | Δ | Δ | Δ | - | - | Δ | Δ |
| 13 | - | - | Δ | Δ | - | - | Δ | Δ |
| 14 | - | - | Δ | Δ | - | - | Δ | Δ |
| 25 | Δ | Δ | Δ | Δ | Δ | Δ | Δ | Δ |
| 26 | Δ | Δ | Δ | Δ | Δ | - | Δ | Δ |
| 66 | Δ | Δ | Δ | Δ | Δ | Δ | Δ | Δ |
| 85 | - | - | Δ | Δ | - | - | Δ | Δ |

4.3 SPECIAL ACCESSORIES AND AUXILIARY EQUIPMENT

Table 8: Cables used during test

| Port | Quantity | Length (m) | Connector | Type of Cable |
|------|----------|------------|-----------|----------------------|
| USB | 1 | 1.2 | USB | USB cable, shielding |

Table 9: Auxiliary Equipment used during test

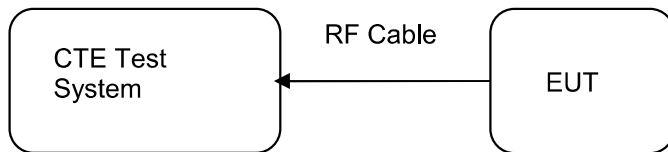
| Name | Model | Manufacturer | S/N |
|----------------------|--|--------------|-----|
| Evaluation Kit | EVK2 | Telit | N/A |
| LTE Magnetic Antenna | T-AT305 Frequency Range: 700-960 MHz / 1710-2700 MHz Omnidirectional antenna Gain: 2.14 dBi (Max.) Cable: RG 174mm 2500 | ATEL-CAB | N/A |

4.4 COUNTERMEASURES TO ACHIEVE EMC COMPLIANCE

The test sample, which has been tested, contained the noise suppression parts as described in the Constructional Data Form or the Technical Construction File. No additional measures were employed to achieve compliance.

4.5 Test Setup Diagram

Diagram of Measurement Equipment Configuration for Transmitter Measurement



5. TEST RESULTS

5.1 ESSENTIAL REQUIREMENTS OF STANDARD

5.1.1 RF POWER OUTPUT

RESULT: **Pass**

| | | | | |
|-------------------|---|-------------------------------|-----------------|-----------------|
| Test standard | : | 47 CFR FCC Part 22 | RSS-130 Issue 2 | |
| | | 47 CFR FCC Part 24 | RSS-132 Issue 3 | |
| | | 47 CFR FCC Part 27 | RSS-133 Issue 6 | |
| | | 47 CFR FCC Part 90 | RSS-139 Issue 3 | |
| | | 47 CFR FCC Part 2 | RSS-140 Issue 1 | |
| | | | RSS-Gen Issue 5 | |
| Limits | : | Operating band | FCC Limit | ISED Limit |
| | | Band 2 | EIRP 2 watts | EIRP 2 watts |
| | | Band 4 | EIRP 1 watts | EIRP 1 watts |
| | | Band 5 | ERP 7 watts | EIRP 11.5 watts |
| | | Band 8_39d | ERP 10 watts | N/A |
| | | Band 12 | ERP 3 watts | ERP 3 watts |
| | | Band 13 | ERP 3 watts | ERP 3 watts |
| | | Band 14 | ERP 30 watts | ERP 30 watts |
| | | Band 25 | EIRP 2 watts | EIRP 2 watts |
| | | Band 26 Lower Band | < 100 watts | N/A |
| | | Band 26 Upper Band | ERP 7 watts | EIRP 11.5 watts |
| | | Band 66 | EIRP 1 watts | EIRP 1 watts |
| | | Band 85 | ERP 3 watts | ERP 3 watts |
| Test procedure | : | Clause 5.2.4.2 of ANSI C63.26 | | |
| Kind of test site | : | Shielding Room | | |

Test Setup

| | | |
|----------------------|---|--|
| Date of testing | : | 2021.10.20-2021.11.06 |
| Input voltage | : | DC 3.8V |
| Test environment | : | <input checked="" type="checkbox"/> Normal test conditions <input type="checkbox"/> Extreme test conditions |
| Operation mode | : | A.1 |
| Ambient temperature | : | 23 °C |
| Relative humidity | : | 50% |
| Atmospheric pressure | : | 101.0 kPa |

$$\text{ERP or EIRP} = P_{\text{Meas}} + G_{\text{T}}$$

where

ERP or EIRP: effective radiated power or equivalent isotropically radiated power, respectively (expressed in the same units as P_{Meas} , e.g. dBm)

P_{Meas} : measured transmitter output power, in dBm

G_{T} : gain of the transmitting antenna, in dBd (ERP) or dBi (EIRP)

Prüfbericht - Nr.: CN21N817 001*Test Report No.***Seite 16 von 25***Page 16 of 25*

Refer to attached Appendix A to Appendix L for details of test results.

5.1.2 MODULATION CHARACTERISTICS**RESULT:****Pass**

| | | | |
|-------------------|---|--|--|
| Test standard | : | 47 CFR FCC Part 22 47 CFR FCC Part 24 47 CFR FCC Part 27 47 CFR FCC Part 90 47 CFR FCC Part 2 | RSS-130 Issue 2 RSS-132 Issue 3 RSS-133 Issue 6 RSS-139 Issue 3 RSS-140 Issue 1 RSS-Gen Issue 5 |
| Limits | : | "Other types of equipment", the use of higher order modulations such as OFDM or LTE or other modulation are acceptable for use | |
| Test procedure | : | Clause 5.2.3 of ANSI C63.26 | |
| Kind of test site | : | Shielding Room | |
| | | 2021.10.20-2021.11.06 | |
| | | DC 3.8V | |

Note:

The device implement digital modulation such as 16QAM and QPSK, hence the EUT is deemed to comply with this requirement without additional testing.

Prüfbericht - Nr.: CN21N817 001
Test Report No.Seite 18 von 25
Page 18 of 25**5.1.3 OCCUPIED BANDWIDTH AND 26dB BANDWIDTH****RESULT:****Pass**

| | | | |
|-------------------|---|--|--|
| Test standard | : | 47 CFR FCC Part 22 47 CFR FCC Part 24 47 CFR FCC Part 27 47 CFR FCC Part 90 47 CFR FCC Part 2 | RSS-130 Issue 2 RSS-132 Issue 3 RSS-133 Issue 6 RSS-139 Issue 3 RSS-140 Issue 1 RSS-Gen Issue 5 |
| Test requirement | : | Section 2.1049 | |
| Limits | : | No limit | |
| Test procedure | : | Section 5.4.3 of ANSI C63.26 <input checked="" type="checkbox"/> Conducted measurements <input type="checkbox"/> Radiated measurements | |
| Kind of test site | : | Shielding Room | |

Test Setup

| | | |
|----------------------|---|--|
| Date of testing | : | 2021.10.20-2021.11.06 |
| Input voltage | : | DC 3.8V |
| Test environment | : | <input checked="" type="checkbox"/> Normal test conditions <input type="checkbox"/> Extreme test conditions |
| Operation mode | : | A.1 |
| Ambient temperature | : | 24 °C |
| Relative humidity | : | 50% |
| Atmospheric pressure | : | 101.0 kPa |

Refer to attached Appendix A to Appendix L for details of test results.

5.1.4 SPURIOUS EMISSIONS AT ANTENNA TERMINALS

RESULT: **Pass**

| | | | |
|---------------|---|---|--|
| Test standard | : | 47 CFR FCC Part 22 47 CFR FCC Part 24 47 CFR FCC Part 27 47 CFR FCC Part 90 47 CFR FCC Part 2 | RSS-130 Issue 2 RSS-132 Issue 3 RSS-133 Issue 6 RSS-139 Issue 3 RSS-140 Issue 1 RSS-Gen Issue 5 |
|---------------|---|---|--|

| | | | | |
|-------------------|---|-----------------------------|------------------------------|----------------------|
| Limits | : | Operating band | FCC Limit | ISED Limit |
| | | Band 2 | < - 13 dBm /1MHz | < - 13 dBm /1MHz |
| | | Band 4 | < - 13 dBm /1MHz | < - 13 dBm /1MHz |
| | | | < - 13 dBm /100kHz | < - 13 dBm / 100 kHz |
| | | Band 5 | @ < 1GHz < - 13 dBm /1MHz | |
| | | | @ > 1GHz | |
| | | Band 8_39d | < - 13 dBm /100kHz | N/A |
| | | Band 12 | < - 13 dBm /100kHz | < - 13 dBm /100kHz |
| | | Band 13 | < - 13 dBm /100kHz | < - 13 dBm /100kHz |
| | | Band 14 | < - 13 dBm /100kHz | < - 13 dBm /100kHz |
| | | Band 25 | < - 13 dBm /1MHz | < - 13 dBm /1MHz |
| | | Band 26 Lower Band | < - 13 dBm /100kHz | N/A |
| | | | < - 13 dBm /100kHz | < - 13 dBm / 100 kHz |
| | | Band 26 Upper Band | @ < 1GHz < - 13 dBm /1MHz | |
| | | | @ > 1GHz | |
| | | Band 66 | < - 13 dBm /1MHz | < - 13 dBm /1MHz |
| | | Band 85 | < - 13 dBm /100kHz | < - 13 dBm /100kHz |
| Test procedure | : | Clause 5.7.4 of ANSI C63.26 | | |
| Kind of test site | : | Shielding Room | | |

Test Setup

| | | |
|----------------------|---|--|
| Date of testing | : | 2021.10.20-2021.11.06 |
| Input voltage | : | DC 3.8V |
| Test environment | : | <input checked="" type="checkbox"/> Normal test conditions <input type="checkbox"/> Extreme test conditions |
| Operation mode | : | A.1 |
| Ambient temperature | : | 24 °C |
| Relative humidity | : | 51% |
| Atmospheric pressure | : | 101.0 kPa |

The limit calculation:

$$\text{Limit} = P_{\text{Meas}} \text{ (dBm)} - [43 + 10 \log(P_{\text{Meas}})] = -13 \text{ dBm}$$

Refer to attached Appendix A to Appendix L for details of test results.

5.1.5 SPURIOUS EMISSIONS AT ANTENNA TERMINALS – BAND EDGE

RESULT:
Pass

| | | | |
|---------------|---|--------------------|-----------------|
| Test standard | : | 47 CFR FCC Part 22 | RSS-130 Issue 2 |
| | | 47 CFR FCC Part 24 | RSS-132 Issue 3 |
| | | 47 CFR FCC Part 27 | RSS-133 Issue 6 |
| | | 47 CFR FCC Part 90 | RSS-139 Issue 3 |
| | | 47 CFR FCC Part 2 | RSS-140 Issue 1 |
| | | | RSS-Gen Issue 5 |

| | | | | |
|-------------------|---|-----------------------------|-------------------|--------------------|
| Limits | : | Operating band | FCC Limit | ISED Limit |
| | | Band 2 | < - 13 dBm /1%EBW | < - 13 dBm / 1%OBW |
| | | Band 4 | < - 13 dBm /1%EBW | < - 13 dBm / 1%OBW |
| | | Band 5 | < - 13 dBm /1%EBW | < - 13 dBm / 1%OBW |
| | | Band 8_39d | < - 13 dBm /1%EBW | N/A |
| | | Band 12 | < - 13 dBm /30kHz | < - 13 dBm /30kHz |
| | | Band 13 | < - 13 dBm /30kHz | < - 13 dBm /30kHz |
| | | Band 14 | < - 13 dBm /30kHz | < - 13 dBm /30kHz |
| | | Band 25 | < - 13 dBm /1%EBW | < - 13 dBm / 1%OBW |
| | | Band 26 Lower Band | < - 20 dBm /1%EBW | N/A |
| | | Band 26 Upper Band | < - 13 dBm /1%EBW | < - 13 dBm / 1%OBW |
| | | Band 66 | < - 13 dBm /1%EBW | < - 13 dBm / 1%OBW |
| | | Band 85 | < - 13 dBm /30kHz | < - 13 dBm /30kHz |
| Test procedure | : | Clause 5.7.3 of ANSI C63.26 | | |
| Kind of test site | : | Shielding Room | | |

Test Setup

| | | |
|----------------------|---|--|
| Date of testing | : | 2021.10.20-2021.11.06 |
| Input voltage | : | DC 3.8V |
| Test environment | : | <input checked="" type="checkbox"/> Normal test conditions <input type="checkbox"/> Extreme test conditions |
| Operation mode | : | A.1 |
| Ambient temperature | : | 24 °C |
| Relative humidity | : | 51% |
| Atmospheric pressure | : | 101.0 kPa |

The limit calculation:

$$\text{Limit} = P_{\text{Meas}} \text{ (dBm)} - [43+10\log(P_{\text{Meas}})] = -13 \text{ dBm}$$

Refer to attached Appendix A to Appendix L for details of test results.

5.1.6 FIELD STRENGTH OF SPURIOUS RADIATION

RESULT: **Pass**

| | | | |
|---------------|---|---|--|
| Test standard | : | 47 CFR FCC Part 22 47 CFR FCC Part 24 47 CFR FCC Part 27 47 CFR FCC Part 90 47 CFR FCC Part 2 | RSS-130 Issue 2 RSS-132 Issue 3 RSS-133 Issue 6 RSS-139 Issue 3 RSS-140 Issue 1 RSS-Gen Issue 5 |
|---------------|---|---|--|

| | | | | |
|--------|---|----------------|--|----------------------|
| Limits | : | Operating band | FCC Limit | ISED Limit |
| | | Band 2 | < - 13 dBm /1MHz | < - 13 dBm /1MHz |
| | | Band 4 | < - 13 dBm /1MHz | < - 13 dBm /1MHz |
| | | Band 5 | < - 13 dBm /100kHz @ < 1GHz < - 13 dBm /1MHz @ > 1GHz | < - 13 dBm / 100 kHz |
| | | Band 8_39d | < - 13 dBm /100kHz | N/A |
| | | Band 12 | < - 13 dBm /100kHz | < - 13 dBm /100kHz |
| | | Band 13 | < - 13 dBm /100kHz | < - 13 dBm /100kHz |
| | | Band 14 | < - 13 dBm /100kHz | < - 13 dBm /100kHz |
| | | Band 25 | < - 13 dBm /1MHz | < - 13 dBm /1MHz |
| | | Band 26 | < - 13 dBm /100kHz | N/A |
| | | Lower Band | | |
| | | Band 26 | < - 13 dBm /100kHz @ < 1GHz | < - 13 dBm / 100 kHz |
| | | Upper Band | < - 13 dBm /1MHz @ > 1GHz | |
| | | Band 66 | < - 13 dBm /1MHz | < - 13 dBm /1MHz |
| | | Band 85 | < - 13 dBm /100kHz | < - 13 dBm /100kHz |

| | | |
|-------------------|---|---------------------------|
| Test procedure | : | Clause 5.5 of ANSI C63.26 |
| Kind of test site | : | 3m Semi Anechoic Room |

Test Setup

| | | |
|----------------------|---|--|
| Date of testing | : | 2021.10.20-2021.11.06 |
| Input voltage | : | DC 3.8V |
| Test environment | : | <input checked="" type="checkbox"/> Normal test conditions <input type="checkbox"/> Extreme test conditions |
| Operation mode | : | A.1 |
| Ambient temperature | : | 23 °C |
| Relative humidity | : | 47% |
| Atmospheric pressure | : | 101.0 kPa |

The limit calculation:

$$\text{Limit} = P_{\text{Meas}} \text{ (dBm)} - [43+10\log(P_{\text{Meas}})] = -13 \text{ dBm}$$

Sweep the whole frequency band through the range from 9 kHz to the 10th harmonic of the carrier, the emissions below the noise floor will not be recorded in this report. The measurement is performed for all operational modes and both antenna polarization, only the data of the worst mode is recorded in this report.

Refer to attached Appendix M for details of test results.

5.1.7 FREQUENCY STABILITY

RESULT:
Pass

| | | | |
|-------------------|---|-----------------------------|--|
| Test standard | : | 47 CFR FCC Part 22 | RSS-130 Issue 2 |
| | | 47 CFR FCC Part 24 | RSS-132 Issue 3 |
| | | 47 CFR FCC Part 27 | RSS-133 Issue 6 |
| | | 47 CFR FCC Part 90 | RSS-139 Issue 3 |
| | | 47 CFR FCC Part 2 | RSS-140 Issue 1 |
| | | | RSS-Gen Issue 5 |
| Limits | : | Operating band | FCC Limit ISED Limit |
| | | Band 2 | Within authorized bands 2.5 ppm |
| | | Band 4 | Within authorized bands Within authorized bands |
| | | Band 5 | 2.5 ppm 2.5 ppm |
| | | Band 8_39d | Within authorized bands N/A |
| | | Band 12 | Within authorized bands Within authorized bands |
| | | Band 13 | Within authorized bands Within authorized bands |
| | | Band 14 | Within authorized bands Within authorized bands |
| | | Band 25 | Within authorized bands 2.5 ppm |
| | | Band 26 Lower Band | 2.5 ppm N/A |
| | | Band 26 Upper Band | 2.5 ppm 2.5 ppm |
| | | Band 66 | Within authorized bands Within authorized bands |
| | | Band 85 | Within authorized bands Within authorized bands |
| Test procedure | : | Clause 5.6.3 of ANSI C63.26 | |
| Kind of test site | : | Shielding Room | |

Prüfbericht - Nr.: CN21N817 001
Test Report No.**Seite 23 von 25**
Page 23 of 25**Test Setup**

| | | |
|----------------------|---|---|
| Date of testing | : | 2021.10.20-2021.11.06 |
| Input voltage | : | DC 3.8V |
| Test environment | : | <input checked="" type="checkbox"/> Normal test conditions <input checked="" type="checkbox"/> Extreme test conditions |
| Operation mode | : | A.1 |
| Ambient temperature | : | 24 °C |
| Relative humidity | : | 51% |
| Atmospheric pressure | : | 101.0 kPa |

Refer to attached Appendix A to Appendix L for details of test results.

5.1.8 PEAK TO AVERAGE RATIO

RESULT:
Pass

| | | | |
|-------------------|---|-----------------------------|-----------------|
| Test standard | : | 47 CFR FCC Part 22 | RSS-130 Issue 2 |
| | | 47 CFR FCC Part 24 | RSS-132 Issue 3 |
| | | 47 CFR FCC Part 27 | RSS-133 Issue 6 |
| | | 47 CFR FCC Part 90 | RSS-139 Issue 3 |
| | | 47 CFR FCC Part 2 | RSS-140 Issue 1 |
| | | | RSS-Gen Issue 5 |
| Limits | : | Operating band | FCC Limit |
| | | Band 2 | PAR ≤ 13 dB |
| | | Band 4 | PAR ≤ 13 dB |
| | | Band 5 | PAR ≤ 13 dB |
| | | Band 8_39d | PAR ≤ 13 dB |
| | | Band 12 | PAR ≤ 13 dB |
| | | Band 13 | PAR ≤ 13 dB |
| | | Band 14 | PAR ≤ 13 dB |
| | | Band 25 | PAR ≤ 13 dB |
| | | Band 26 Lower Band | N/A |
| | | Band 26 Upper Band | PAR ≤ 13 dB |
| | | Band 66 | PAR ≤ 13 dB |
| | | Band 85 | PAR ≤ 13 dB |
| Test procedure | : | Clause 5.2.6 of ANSI C63.26 | |
| Kind of test site | : | Shielding Room | |

Test Setup

| | | |
|----------------------|---|--|
| Date of testing | : | 2021.10.20-2021.11.06 |
| Input voltage | : | DC 3.8V |
| Test environment | : | <input checked="" type="checkbox"/> Normal test conditions |
| | | <input type="checkbox"/> Extreme test conditions |
| Operation mode | : | A.1 |
| Ambient temperature | : | 24 °C |
| Relative humidity | : | 51% |
| Atmospheric pressure | : | 101.0 kPa |

Refer to attached Appendix A to Appendix K for details of test results.

6. SYSTEM MEASUREMENT UNCERTAINTY

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

Table 10: System Measurement Uncertainty

| Items | | Extended Uncertainty |
|-------------------------------------|----------------------------------|----------------------|
| RE | Radiated emission 9 kHz - 30 MHz | ±3.97 dB |
| | Radiated emission 30 MHz - 1 GHz | ±4.30 dB |
| Remark: 95% Confidence Levels, K=2. | | |

7. LIST OF TABLES

| | |
|---|----|
| Table 1: List of Test and Measurement Equipment | 5 |
| Table 2: Rating of EUT | 8 |
| Table 3: Technical Specification of EUT | 8 |
| Table 4: Operating Frequency Range of EUT | 9 |
| Table 5: List of Frequencies under Test | 10 |
| Table 6: Test Environments | 12 |
| Table 7: Test Configurations | 12 |
| Table 8: Cables used during test | 13 |
| Table 9: Auxiliary Equipment used during test..... | 13 |
| Table 10: System Measurement Uncertainty..... | 25 |