FCC REPORT

For LTE Cat M

Report No.....:: CHTEW23060048 Report Verification:

Project No..... SHT2304055301EW

FCC ID.....: 2AM8O-U212-2

Applicant.....: Alicn Medical Shenzhen, Inc

Address....: Room 410, Building A, 3rd Sub-park, Leibo Zhongcheng Life

Science Park, No. 22 Jinxiu East Road, Pingshan District, 518118

Shenzhen, Guangdong, PEOPLE'S REPUBLIC OF CHINA

Product Name....: **Arm Blood Pressure Monitor**

Trade Mark....:

Model No.....: AES-U212

Listed Model(s).....

FCC CFR Title 47 Part 2 Standard.....:

FCC CFR Title 47 Part 22 Subpart H

FCC CFR Title 47 Part 24 Subpart E

FCC CFR Title 47 Part 27

Date of receipt of test sample...... May.04, 2023

Date of testing.....: May.04, 2023-Jun.27, 2023

Date of issue..... Jun.28, 2023

Result.....: **Pass**

Testing Laboratory Name....:

Compiled by

File administrators Fanghui Zhu (position+printedname+signature)...:

Jang Mir Zhu

Xiaodong Zhu

Hams Hu

Supervised by

(position+printedname+signature)....: Project Engineer Xiaodong Zhao

Approved by

(position+printedname+signature)....: Manager Hans Hu

Shenzhen Huatongwei International Inspection Co., Ltd.

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Gongming, Shenzhen, China

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The test report merely correspond to the test sample.

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1. TEST STANDARDS AND REPORT VERSION

1.1. Applicable Standards

The tests were performed according to following standards:

FCC CFR Title 47 Part 2: Frequency Allocations and Radio Treaty Matters; General Rules and Regulations

FCC CFR Title 47 Part 22 Subpart H: Cellular Radiotelephone Service

FCC CFR Title 47 Part 24 Subpart E: Broadband PCS

FCC CFR Title 47 Part 27: Miscellaneous Wireless Communications Services

ANSI C63.26-2015: American National Standard for Compliance Testing of Transmitters Used in Licensed Radio Services

KDB 971168 D01 Power Meas License Digital Systems v03: MEASUREMENT GUIDANCE FOR CERTIFICATION OF LICENSED DIGITAL TRANSMITTERS

1.2. Report version information

| Revision No. | Date of issue | Description |
|--------------|---------------|-------------|
| N/A | 2023-06-28 | Original |
| | | |
| | | |
| | | |
| | | |

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2. TEST DESCRIPTION

| Section | Test Item | Section in CFR 47 | Result #1 | Test Engineer |
|---------|--|---|-----------|---------------|
| 5.1 | Conducted Output Power | Part 2.1046 Part 22.913(a) Part 24.232(c) Part 27.50 | Pass | Xiaodong Zhao |
| 5.2 | Peak-to-Average Ratio | Part 24.232 Part 27.50 | Pass | Xiaodong Zhao |
| 5.3 | 99% Occupied Bandwidth & 26 dB Bandwidth | Part 2.1049 Part 22.917(b) Part 24.238(b) Part 27.53 | Pass | Xiaodong Zhao |
| 5.4 | Band Edge | Part 2.1051 Part 22.917 Part 24.238 Part 27.53 | Pass | Xiaodong Zhao |
| 5.5 | Conducted Spurious Emissions | Part 2.1051 Part 22.917 Part 24.238 Part 27.53 | Pass | Xiaodong Zhao |
| 5.6 | Frequency stability vs temperature | Part 2.1055(a)(1)(b) Part 22.355 Part 24.235 Part 27.54 | Pass | Xiaodong Zhao |
| 5.7 | Frequency stability vs voltage | Part 2.1055(d)(1)(2) Part 22.355 Part 24.235 Part 27.54 | Pass | Xiaodong Zhao |
| 5.8 | ERP and EIRP | Part 22.913(a) Part 24.232(b) Part 27.50 | Pass | Xiaodong Zhao |
| 5.9 | Radiated Spurious Emissions | Part 2.1053 Part 22.917 Part 24.238 Part 27.53 | Pass | Yifan Wang |

Note:

#1: The test result does not include measurement uncertainty value

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3. **SUMMARY**

3.1. Client Information

| Applicant: | Alicn Medical Shenzhen, Inc |
|---------------|--|
| Address: | Room 410, Building A, 3rd Sub-park, Leibo Zhongcheng Life Science Park, No. 22 Jinxiu East Road, Pingshan District, 518118 Shenzhen, Guangdong, PEOPLE'S REPUBLIC OF CHINA |
| Manufacturer: | Alicn Medical Shenzhen, Inc |
| Address: | Room 410, Building A, 3rd Sub-park, Leibo Zhongcheng Life Science Park, No. 22 Jinxiu East Road, Pingshan District, 518118 Shenzhen, Guangdong, PEOPLE'S REPUBLIC OF CHINA |

3.2. Product Description

| Main unit information: | | | |
|------------------------|------------------------------|--|--|
| Product Name: | Arm Blood Pressure Monitor | | |
| Trade Mark: | - | | |
| Model No.: | AES-U212 | | |
| Listed Model(s): | - | | |
| Power supply: | 3.7V, 1100mAh Li-ion battery | | |
| Hardware version: | AES-066-4G-JV01 | | |
| Software version: | A.01.00.00 | | |

3.3. Radio Specification Description

| Support LTE type: | ⊠ Cat M1 | | ☐ Cat M2 | | | |
|----------------------------|-------------------------|--------------|----------|--------|----------|--------|
| | ⊠ FDD Ba | nd 2 | ⊠ FDD Ba | and 4 | ⊠ FDD Ba | and 5 |
| Support Operating Band: | ⊠ FDD Ba | nd 12 | ⊠ FDD Ba | and 13 | ☐ FDD Ba | and 17 |
| Support Operating band. | ☐ FDD Ba | nd 25 | ☐ FDD Ba | and 26 | ☐ TDD Ba | and 41 |
| | ☐ FDD Ba | nd 66 | ☐ FDD Ba | and 71 | | |
| Operating Frequency Range: | Please refe | r to note #2 | | | | |
| Channel bandwidth: | Please refer to note #3 | | | | | |
| | Cat M1 | | | | | |
| | 1.4MHz | 3MHz | 5MHz | 10MHz | 15MHz | 20MHz |
| Maximum RB: | 6 | 6 | 6 | 6 | 6 | 6 |
| Maximum ND. | Cat M2 | | | | | |
| | 1.4MHz | 3MHz | 5MHz | 10MHz | 15MHz | 20MHz |
| | 6 | 12 | 24 | 24 | 24 | 24 |

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|---------------------------|---------------|---------|---------|----------------|------------|
| | | | | | |
| Uplink Modulation type: | | ⊠ QPSK | ☑ 16QAM | ☐ 64QAM | ☐ 256QAM |
| Downlink Modulation type: | | ⊠ QPSK | ⊠ 16QAM | ☐ 64QAM | ☐ 256QAM |
| Antenna type: | | FPC | | | |
| Antenna gain #4: | | -3.0dBi | | | |

Note:

O \boxtimes : means that this feature is supported; \square : means that this feature is not supported

O #2: Operating frequency range is as follow:

| LTE Band | Uplink frequency | Downlink frequency |
|-------------|---------------------|---------------------|
| FDD Band 2 | 1850.7 – 1909.3 MHz | 1930.7 – 1989.3 MHz |
| FDD Band 4 | 1710.7 – 1754.3 MHz | 2110.7 – 2154.3 MHz |
| FDD Band 5 | 824.7 - 848.3 MHz | 869.7 – 893.3 MHz |
| FDD Band 12 | 699.7 – 715.3 MHz | 729.7 – 745.3 MHz |
| FDD Band 13 | 779.5 – 784.5 MHz | 748.5 – 753.5 MHz |

O Supported channel bandwidth is as follow:

| LTE Band | 1.4MHz | 3MHz | 5MHz | 10MHz | 15MHz | 20MHz |
|-------------|--------|------|------|-------|-------|-------|
| FDD Band 2 | √ | √ | √ | √ | √ | √ |
| FDD Band 4 | √ | √ | √ | √ | √ | √ |
| FDD Band 5 | √ | √ | √ | √ | - | - |
| FDD Band 12 | √ | √ | √ | √ | - | - |
| FDD Band 13 | - | - | √ | √ | - | - |

 $[\]sqrt{\cdot}$ means that this feature is supported; -: means that this feature is not supported

3.4. Testing Laboratory Information

| Laboratory Name | Shenzhen Huatongwei International Inspection Co., Ltd. | | | |
|----------------------|---|----------------------|--|--|
| Laboratory Location | 1/F, Bldg 3, Hongfa Hi-tech Industrial Park, Genyu Road, Tianliao, Gongming, Shenzhen, China | | | |
| Contact information: | Tel: 86-755-26715499 E-mail: cs@szhtw.com.cn http://www.szhtw.com.cn | | | |
| Qualifications | Туре | Accreditation Number | | |
| Qualifications | FCC | 762235 | | |

O #4: The antenna gain is provided by the applicant, and the applicant should be responsible for its authenticity, HTW lab has not verified the authenticity of its information

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4. TEST CONFIGURATION

4.1. Test frequency list

| FDD Band 2 | Test Frequency ID | Bandwidth [MHz] | NuL | Frequency of Uplink [MHz] | N _{DL} | Frequency of Downlink [MHz] |
|------------------------|--|--|--|---|---|--|
| | | 1.4 | 18607 | 1850.7 | 607 | 1930.7 |
| | | 3 | 18615 | 1851.5 | 615 | 1931.5 |
| | Low Range | 5 | 18625 | 1852.5 | 625 | 1932.5 |
| | Low riange | 10 | 18650 | 1855 | 650 | 1935 |
| | | 15 ^[1] | 18675 | 1857.5 | 675 | 1937.5 |
| | Mid Range | 20 [1] | 18700 | 1860 | 700 | 1940 |
| | wiid Range | 1.4/3/5/10 15 ^[1] /20 ^[1] | 18900 19193 | 1880 | 900 | 1960 1989.3 |
| | | 1.4 | 19193 | 1909.3 1908.5 | 1193 1185 | 1989.3 |
| | | 5 | 19175 | 1907.5 | 1175 | 1987.5 |
| | High Range | 10 | 19150 | 1905 | 1150 | 1985 |
| | 100 1001 | 15 19 | 19125 | 1902.5 | 1125 | 1982.5 |
| | | 20 [1] | 19100 | 1900 | 1100 | 1980 |
| | NOTE 1: Bandwidth 36.101 [2 | for which a relaxation of the following for the | on of the spe owed. | cified UE receiver s | ensitivity re | quirement (TS |
| DD Band 4 | Test Frequency ID | Bandwidth [MHz] | NuL | Frequency of Uplink [MHz] | N _{DL} | Frequency of Downlink |
| | 3 | | | | X | [MHz] |
| | | 1.4 | 19957 | 1710.7 | 1957 | 2110.7 |
| | | 3 | 19965 | 1711.5 | 1965 | 2111.5 |
| | Low Range | 5 10 | 19975 20000 | 1712.5 1715 | 1975 2000 | 2112.5 |
| | | 15 | 20000 | 1715 | 2000 | 2115 2117.5 |
| | | 20 | 20025 | 1717.5 | 2025 | 2117.5 |
| | Mid Range | 1.4/3/5/10/15/20 | 20175 | 1732.5 | 2175 | 2132.5 |
| | mid range | 1.4 | 20393 | 1754.3 | 2393 | 2154.3 |
| | | 3 | 20385 | 1753.5 | 2385 | 2153.5 |
| | High Dangs | 5 | 20375 | 1752.5 | 2375 | 2152.5 |
| | High Range | 10 | 20350 | 1750 | 2350 | 2150 |
| | | 15 | 20325 | 1747.5 | 2325 | 2147.5 |
| | | 20 | 20300 | 1745 | 2300 | 2145 |
| D Band 5 | Test Frequency ID | Bandwidth [MHz] | N _{UL} | Frequency of Uplink [MHz] | N _{DL} | Frequency of Downlink [MHz] |
| | | 1.4 | 20407 | 824.7 | 2407 | 869.7 |
| | Low Range | 3 | 20415 | 825.5 | 2415 | 870.5 |
| | | 5 10 ^[1] | 20425 | 826.5 | 2425 | 871.5 |
| | | | 20450 | 829 | 2450 | 874 |
| | Mid Range | 1.4/3/5 10 ^[1] | 20525 | 836.5 | 2525 | 881.5 |
| | | 1.4 | 20643 | 848.3 | 2643 | 893.3 |
| | High Bongs | 3 | 20635 | 847.5 | 2635 | 892.5 |
| | High Range | 5 10 ^[1] | 20625 | 846.5 | 2625 | 891.5 |
| | | | 20600 | 844 | 2600 | 889 irement (TS |
| | NOTE 1: Bandwidth f | | | ified UE receiver ser | | |
| | | | of the speci | ified UE receiver ser | isitivity requ | |
| DD Band 12 | | or which a relaxation Clause 7.3) is allow | of the speci ved. | | D 27 | |
| DD Band 12 | 36.101 [27 | or which a relaxation Clause 7.3) is allow Test frequencies Bandwidth [MHz] | of the speci yed. s for E-UTR | RA channel bandy Frequency of Uplink [MHz] | vidth for o | perating band 1 Frequency of Downlink [MHz] |
| DD Band 12 | 36.101 [27 | or which a relaxation Clause 7.3) is allow Test frequencies Bandwidth [MHz] 1.4 | of the speci yed. s for E-UTR NuL 23017 | RA channel bandy Frequency of Uplink [MHz] 699.7 | vidth for o | perating band 1 Frequency of Downlink [MHz] 729.7 |
| DD Band 12 | 36.101 [27 | or which a relaxation Clause 7.3) is allow Test frequencies Bandwidth [MHz] 1.4 3 | NuL 23017 23025 | RA channel bandv Frequency of Uplink [MHz] 699.7 700.5 | vidth for o N _{DL} 5017 5025 | perating band 1 Frequency of Downlink [MHz] 729.7 730.5 |
| DD Band 12 | 36.101 [27 Table 4.3.1.1.12-1: Test Frequency ID | or which a relaxation Clause 7.3) is allow Test frequencies Bandwidth [MHz] 1.4 3 5 [1] | Nu. 23017 23025 23035 | RA channel bands Frequency of Uplink [MHz] 699.7 700.5 701.5 | vidth for o N _{DL} 5017 5025 5035 | perating band 1 Frequency of Downlink [MHz] 729.7 730.5 731.5 |
| DD Band 12 | 36.101 [27 Table 4.3.1.1.12-1: Test Frequency ID | or which a relaxation Clause 7.3) is allow Test frequencies Bandwidth [MHz] 1.4 3 | NuL 23017 23025 | RA channel bandv Frequency of Uplink [MHz] 699.7 700.5 | vidth for o N _{DL} 5017 5025 | perating band 1 Frequency of Downlink [MHz] 729.7 730.5 |
| DD Band 12 | Table 4.3.1.1.12-1: Test Frequency ID Low Range | or which a relaxation Clause 7.3) is allow Test frequencies Bandwidth [MHz] 1.4 3 5 [1] 10 [1] 1,4/3 | n of the specied. S for E-UTR NuL 23017 23025 23035 23060 23095 23173 | RA channel bandw Frequency of Uplink [MHz] 699.7 700.5 701.5 704 707.5 | N _{DL} 5017 5025 5035 5060 5095 | perating band 1. Frequency of Downlink [MHz] 729.7 730.5 731.5 734 737.5 |
| D Band 12 | Table 4.3.1.1.12-1: Test Frequency ID Low Range Mid Range | or which a relaxation Clause 7.3) is allow Test frequencies Bandwidth (MHz) 1.4 3 5 (9) 10 (19) 10 (19) 1.4 3 5 (19) 10 (19) 1.4 3 5 (19)/10 (19) 1.4 3 3 3 3 3 3 3 3 3 | n of the specied. S for E-UTR Nu. 23017 23025 23035 23060 23095 23173 23165 | RA channel bandw Frequency of Uplink [MHz] 699.7 700.5 701.5 704 707.5 715.3 714.5 | N _{DL} 5017 5025 5035 5060 5095 5173 5165 | Prequency of Downlink [MHz] 729.7 730.5 731.5 734 737.5 745.3 744.5 |
| D Band 12 | Table 4.3.1.1.12-1: Test Frequency ID Low Range | or which a relaxation or which a relaxation or which a relaxation or class and or c | n of the specied. S for E-UTR NuL 23017 23025 23035 23060 23095 23173 23165 23155 | RA channel bandw Frequency of Uplink [MHz] 699.7 700.5 701.5 704 707.5 715.3 714.5 713.5 | vidth for o N _{DL} 5017 5025 5035 5060 5095 5173 5165 5155 | perating band 1. Frequency of Downlink [MHz] 729.7 730.5 731.5 734 737.5 745.3 744.5 743.5 |
| D Band 12 | Table 4.3.1.1.12-1: Test Frequency ID Low Range Mid Range High Range | or which a relaxation Clause 7.3) is allow Test frequencies Bandwidth [MHz] 1.4 3 5 (1) 10 (1) 1.4 3 5 (1) 10 (1) 1.4 3 5 (1) 10 (1) 1.4 3 5 (1) 10 (1) 1.5 (1) 10 (1) | n of the specived. 8 for E-UTR Nu. 23017 23025 23035 23095 23173 23165 23155 23155 23150 7 of the specived. | RA channel bandw Frequency of Uplink [MHz] 699.7 700.5 701.5 704 707.5 715.3 714.5 713.5 711.1 | N _{DL} 5017 5025 5035 5060 5095 5173 5165 5155 5130 | perating band 1. Frequency of Downlink [MHz] 729.7 730.5 731.5 734 737.5 745.3 744.5 743.5 744.5 |
| DD Band 12 | Table 4.3.1.1.12-1: Test Frequency ID Low Range Mid Range High Range | or which a relaxation or which a relaxation of clause 7.3) is allow Test frequencies Bandwidth [MHz] 1.4 3 5 fil 10 fil 1.4/3 5 fil/10 fil 1.4 3 5 fil 1.0 fil 1.0 fil 1.0 fil 1.0 fil 1.0 fil | n of the specived. 8 for E-UTR Nu. 23017 23025 23035 23095 23173 23165 23155 23155 23150 7 of the specived. | RA channel bandw Frequency of Uplink [MHz] 699.7 700.5 701.5 704 707.5 715.3 714.5 713.5 711.1 | N _{DL} 5017 5025 5035 5060 5095 5173 5165 5155 5130 | perating band 1. Frequency of Downlink [MHz] 729.7 730.5 731.5 734 737.5 745.3 744.5 743.5 744.5 |
| DD Band 12 DD Band 13 | Table 4.3.1.1.12-1: Test Frequency ID Low Range Mid Range High Range | or which a relaxation Clause 7.3) is allow Test frequencies Bandwidth [MHz] 1.4 3 5 10 10 11 1.4/3 5 10 10 1.4/3 5 10 10 1.4/3 5 10 10 10 10 10 10 10 | n of the specived. 8 for E-UTR Nu. 23017 23025 23035 23095 23173 23165 23155 23155 23150 7 of the specived. | RA channel bandw Frequency of Uplink [MHz] 699.7 700.5 701.5 704 707.5 715.3 714.5 711.5 711 cified UE receiver se | N _{DL} 5017 5025 5035 5060 5095 5173 5165 5155 5130 | perating band 1. Frequency of Downlink [MHz] 729.7 730.5 731.5 734 737.5 745.3 744.5 743.5 741 Uirement |
| | Table 4.3.1.1.12-1: Test Frequency ID Low Range Mid Range High Range NOTE 1: Bandwidth (TS 36.10) | or which a relaxation Clause 7.3) is allow Test frequencies Bandwidth [MHz] 1.4 3 5 11 10 11 1.4 3 5 11 10 11 1.4 3 5 11 1.4 3 5 11 1.4 3 5 11 1.4 3 5 11 10 11 10 11 10 11 10 11 10 11 10 | of the specived. If or E-UTR Nu. 23017 23025 23025 23050 23095 23173 23165 23155 23155 23130 an of the speciallowed. | RA channel bandw Frequency of Uplink [MHz] 699.7 700.5 701.5 701.5 704 707.5 714.5 714.5 713.5 714.1 ciffed UE receiver se | vidth for o N _{DL} 5017 5025 5035 5060 5095 5173 5165 5155 5130 rnsitivity requ | perating band 1. Frequency of Downlink [MHz] 729.7 730.5 731.5 734 737.5 745.3 744.5 743.5 7441 uirement |
| | Table 4.3.1.1.12-1: Test Frequency ID Low Range Mid Range High Range NOTE 1: Bandwidth (TS 36.10) | or which a relaxation Clause 7.3) is allow Test frequencies Bandwidth [MHz] 1.4 3 5 11 1.4 3 5 11 1.4 3 5 11 1.4 3 5 11 1.4 3 5 11 1.4 3 5 11 1.4 3 5 11 1.5 1.5 1 | n of the specived. Solved. Solved. Solved. Nut. 23017 23025 23035 23060 23095 23173 23165 23130 23155 23130 300 of the speciallowed. Nut. 23205 | RA channel bands Frequency of Uplink [MHz] 699.7 700.5 701.5 704 707.5 714.5 714.5 713.5 711 cified UE receiver se | vidth for o No. 5017 5025 5035 5036 5095 5173 5165 5155 5130 ensitivity requ | Perating band 1. Frequency of Downlink [MHz] 729.7 730.5 731.5 734 737.5 745.3 744.5 743.5 741 uirement Frequency of Downlink [MHz] 748.5 |
| | Table 4.3.1.1.12-1: Test Frequency ID Low Range Mid Range High Range NOTE 1: Bandwidth (TS 36.10) Test Frequency ID Low Range | or which a relaxation Clause 7.3) is allow Test frequencies Bandwidth [MHz] 1.4 3 5 11 10 11 1.4 3 5 11 10 11 1.4 3 5 11 1.4 3 5 11 1.4 3 5 11 1.4 3 5 11 10 11 10 11 10 11 10 11 10 11 10 | n of the speciare of the speci | RA channel bandw Frequency of Uplink [MHz] 699.7 700.5 701.5 704 707.5 715.3 714.5 714.5 711 cified UE receiver se | vidth for o No. 5017 5025 5035 5035 5060 5095 5173 5165 5150 5130 nsitivity requ | Frequency of |
| | Table 4.3.1.1.12-1: Test Frequency ID Low Range Mid Range High Range NOTE 1: Bandwidth (TS 36.10) Test Frequency ID Low Range Mid Range | or which a relaxation Clause 7.3) is allow Test frequencies Bandwidth [MHz] 1.4 3 5 10 10 11 1.4 3 5 10 10 10 1 1.4 3 5 10 10 10 1 1.4 3 5 10 10 10 1 1.4 3 5 10 10 10 10 10 10 10 | n of the specived. Solved. Solved. Solved. Nut. 23017 23025 23035 23060 23095 23173 23165 23130 23155 23130 300 of the speciallowed. Nut. 23205 | RA channel bands Frequency of Uplink [MHz] 699.7 700.5 701.5 704 707.5 714.5 714.5 713.5 711 cified UE receiver se | vidth for o No. 5017 5025 5035 5036 5095 5173 5165 5155 5130 ensitivity requ | Perating band 1. Frequency of Downlink [MHz] 729.7 730.5 731.5 734 737.5 745.3 744.5 743.5 741 uirement Frequency of Downlink [MHz] 748.5 |
| | Table 4.3.1.1.12-1: Test Frequency ID Low Range Mid Range High Range NOTE 1: Bandwidth (TS 36.10) Test Frequency ID Low Range | or which a relaxation Clause 7.3) is allow Test frequencies Bandwidth [MHz] 1.4 3 5 10 10 11 1.4 3 5 10 10 11 1.4 3 5 10 10 10 11 1.4 3 5 10 10 10 10 10 10 10 | of the specived. If or E-UTR Nu. 23017 23025 23035 23095 23165 23155 23155 23155 23150 on of the speciallowed. Nu. 23205 23230 23230 23230 23230 23230 | RA channel bandw Frequency of Uplink [MHz] 699.7 700.5 701.5 704 707.5 715.3 714.5 713.5 711 cified UE receiver se | vidth for o No. 5017 5025 5035 5060 5095 5173 5165 5150 5150 5150 No. \$5205 5230 5230 5230 5230 | Frequency of Downlink [MHz] 729.7 730.5 731.5 734.5 744.5 744.5 741 Uirement Frequency of Downlink [MHz] 748.5 751 751.5 751 753.5 751 755.5 751 755.5 751 755.5 751 755.5 755 |

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4.2. Test mode

| Test mode | Link mode |
|-----------|-----------|
|-----------|-----------|

- Antenna port conducted and radiated test items were performed according to KDB 971168 D01 Power Meas. License Digital Systems and ANSI C63.26 with maximum output power.
- 2) Radiated measurements were performed with rotating EUT in different three orthogonal test planes to find the maximum emission.

Test configuration is as follow:

| Test Items | Bandwidth | Modulation | RB# | | | |
|--|-----------|------------|-----|------|------|--|
| restitems | Danuwidin | Modulation | 1 | Half | Full | |
| Conducted Output Power | #5 | #6 | 0 | 0 | 0 | |
| Peak-to-Average Ratio | #5 #6 | | 0 | - | 0 | |
| 99% Occupied Bandwidth & 26 dB Bandwidth | #5 | #6 | - | - | 0 | |
| Band Edge | #5 | #6 | 0 | - | 0 | |
| Conducted Spurious Emission #5 #6 | | 0 | - | - | | |
| Frequency Stability #5 | | #6 | - | - | 0 | |
| ERP and EIRP | #5 | #6 | 0 | 0 | 0 | |
| Radiated Spurious Emission | #5 | #6 | 0 | - | - | |

Note:

- O #5: Test all kind of bandwith in section 3.3
- O #6: Test all kind of uplink modulation in section 3.3
- O o: means that this configuration is chosen for testing
- O -: means that this configuration is not test.
- O The device is investigatedfrom 30MHz to 10 times offundamental signal for radiated spurious emission test under different bandwidth, modulations and RB size/offset in exploratory test. Subsequently, only the worst case emissions (highest bandwidth, QPSK, and 1RB0) are reported.

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4.3. Test sample information

| Test item | HTW sample no. | | | | |
|----------------------|--|--|--|--|--|
| Conducted test items | Please refer to the description in the appendix report | | | | |
| Radiated test items | YPHT23040553009 | | | | |

Note:

Conducted test items: Conducted Output Power, Peak-Average Ratio, 99% Occupied Bandwidth & 26 dB

Bandwidth, Band Edge, Conducted Spurious Emissions, Frequency stability, ERP and

EIRP

Radiated test items: Radiated Spurious Emission

4.4. Support unit used in test configuration and system

The EUT has been associated with peripherals and configuration operated in a manner tended to maximize its emission characteristics in a typical application.

The following peripheral devices and interface cables were connected during the measurement:

| Whethe | Whether support unit is used? | | | | | | | |
|--------|-------------------------------|------------|-----------|-------|--|--|--|--|
| ✓ | No | | | | | | | |
| Item | Equipment | Trade Name | Model No. | Other | | | | |
| 1 | | | | | | | | |
| 2 | | | | | | | | |

4.5. Testing environmental condition

| Voltage | VN=Nominal Voltage | DC 3.8V | | |
|--------------|--|----------|--|--|
| | VL=Lower Voltage | DC 3.6V | | |
| | VH=Higher Voltage | DC 4.35V | | |
| Temperature | TN=Normal Temperature | 25 °C | | |
| | Extreme Temperature From -30°C to + 50°C | | | |
| Humidity | 30~60 % | | | |
| Air Pressure | 950-1050 hPa | | | |

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4.6. Statement of the measurement uncertainty

| No. | Test Items | Measurement Uncertainty |
|-----|--|-------------------------|
| 1 | Conducted Output Power | 0.66 |
| 2 | Peak-to-Average Ratio | - |
| 3 | 99% Occupied Bandwidth & 26 dB Bandwidth | 0.002% |
| 4 | Band Edge | 1.68dB |
| 5 | Conducted Spurious Emissions | 1.68dB |
| 6 | Frequency stability | 0.02ppm |
| 7 | Radiated Spurious Emission | 4.54dB for 30MHz-1GHz |
| , | Tradiated Opunious Emission | 5.10dB for above 1GHz |

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=1.96.

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4.7. Equipments Used during the Test

| • | Conducted test item | | | | | | | |
|------|----------------------------------|--------------|---------------|-----------|------------|------------------------------|------------------------------|--|
| Used | Test Equipment | Manufacturer | Equipment No. | Model No. | Serial No. | Last Cal. Date (YY-MM-DD) | Next Cal. Date (YY-MM-DD) | |
| • | Spectrum Analyzer | Agilent | HTWE0286 | N9020A | MY50510187 | 2022/08/25 | 2023/08/24 | |
| • | Radio communication tester | R&S | HTWE0287 | CMW500 | 137688-Lv | 2022/08/25 | 2023/08/24 | |
| • | Test software | Tonscend | N/A | JS1120 | N/A | N/A | N/A | |
| • | T-Cock | Weinschel | HTWE0289 | 1580 | SC329 | 2022/08/25 | 2023/08/24 | |

| • | Radiated Spurious Emission | | | | | | | |
|------|-----------------------------|--------------------|---------------|---------------|------------|------------------------------|------------------------------|--|
| Used | Test Equipment | Manufacturer | Equipment No. | Model No. | Serial No. | Last Cal. Date (YY-MM-DD) | Next Cal. Date (YY-MM-DD) | |
| • | Semi-Anechoic Chamber | Albatross projects | HTWE0122 | SAC-3m-01 | C11121 | 2023/4/17 | 2026/4/16 | |
| • | Spectrum Analyzer | R&S | HTWE0098 | FSP40 | 100597 | 2022/8/25 | 2023/8/24 | |
| • | Spectrum Analyzer | R&S | HTWE0385 | N9020A | MY54486658 | 2022/8/25 | 2023/8/24 | |
| • | Ultra-Broadband Antenna | SCHWARZBECK | HTWE0123 | VULB9163 | 538 | 2021/4/6 | 2024/4/5 | |
| • | Horn Antenna | SCHWARZBECK | HTWE0126 | BBHA 9120D | 1011 | 2023/2/14 | 2026/2/13 | |
| • | Pre-Amplifer | CD | HTWE0071 | PAP-0102 | 12004 | 2023/5/25 | 2024/5/24 | |
| • | Broadband Pre- amplifier | SCHWARZBECK | HTWE0201 | BBV 9718 | 9718-248 | 2023/5/25 | 2024/5/24 | |
| • | Test Software | Audix | N/A | E3 | N/A | N/A | N/A | |

| • | Auxiliary Equipment | | | | | | | |
|------|----------------------------------|--------------|------------------|------------------|------------|---------------------------------|------------------------------|--|
| Used | Test Equipment | Manufacturer | Equipment No. | Model No. | Serial No. | Last Cal. Date (YY-MM-DD) | Next Cal. Date (YY-MM-DD) | |
| • | Radio communication tester | R&S | HTWE0287 | CMW500 | 137688-Lv | 2022/08/25 | 2023/08/24 | |
| • | High pass filter | Wainwright | HTWE0297 | WHKX3.0/18G-10SS | 38 | 2023/05/15 | 2024/05/14 | |
| • | Band Stop filter | - | HTWE0039 | N/A | N/A | 2023/01/26 | 2024/01/25 | |

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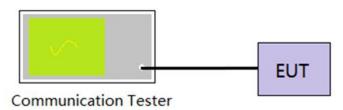
5. TEST CONDITIONS AND RESULTS

5.1. Conducted Output Power

<u>LIMIT</u>

N/A

TEST CONFIGURATION



TEST PROCEDURE

- 1. The EUT output port was connected to communication tester.
- 2. Set EUT at maximum power through communication tester.
- 3. Select lowest, middle, and highest channels for each band and different modulation.
- 4. Measure the maximum burst average power.

TEST MODE

Please refer to the clause 4.2

TEST RESULTS

TEST DATA

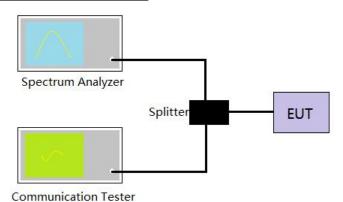
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5.2. Peak-to-Average Ratio

<u>LIMIT</u>

13dB

TEST CONFIGURATION



TEST PROCEDURE

- 1. The EUT was connected to the spectrum analyzer and communication tester via a power splitter
- 2. Set EUT in maximum power output.
- 3. Center Frequency = Carrier frequency, RBW > Emission bandwidth of signal
- 4. The signal analyzer was set to collect one million samples to generate the CCDF curve
- 5. The measurement interval was set depending on the type of signal analyzed.
 - i. For continuous signals (>98% duty cycle), the measurement interval was set to 1ms.
 - ii. For bursttransmissions, the spectrum analyzer is set to use an internal "RF Burst" trigger that issynced with an incoming pulse and the measurement interval is set to less than the duration of the "on time" of one burst to ensure that energy is only captured during a time in whichthetransmitter is operating at maximum power
- 6. Record the maximum PAPR level associated with a probability of 0.1%.

TEST MODE

Please refer to the clause 4.2

TEST RESULTS

TEST DATA

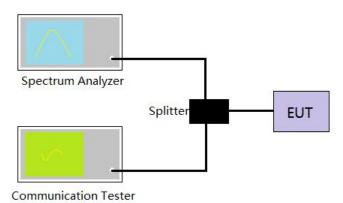
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5.3. 99% Occupied Bandwidth & 26 dB Bandwidth

<u>LIMIT</u>

N/A

TEST CONFIGURATION



TEST PROCEDURE

- 1. The EUT was connected to the spectrum analyzer and communication tester via a power splitter
- 2. Set EUT in maximum power output.
- Spectrum analyzer setting as follow:
 Center Frequency= Carrier frequency, RBW=51kHz, VBW= 200kHz, Detector=Peak,
 Trace maximum hold.
- 4. Record the value of 99% Occupied bandwidth and 26dB bandwidth.

TEST MODE

Please refer to the clause 4.2

TEST RESULTS

TEST DATA

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5.4. Band Edge

LIMIT

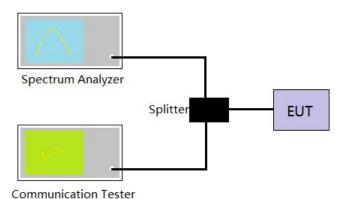
Part 24.238 and Part 22.917 and Part 27.53 specify that the power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least 43 + 10 log(P) dB.

The specification that emissions shall be attenuated below the transmitter power (P) by at least 43 + 10 log (P) dB, translates in the relevant power range (1 to 0.001 W) to -13 dBm. At 1 W the specified minimum attenuation becomes 43 dB and relative to a 30 dBm (1 W) carrier becomes a limit of -13 dBm. At 0.001 W (0 dBm) the minimum attenuation is 13 dB, which again yields a limit of -13 dBm. In this way a translation of the specification from relative to absolute terms is carried out.

Part 27.53(c) For operations in the 746-758 MHz band and the 776-788 MHz band, the power of any emission outside the licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, in accordance with the following:

- 1) On any frequency outside the 746-758 MHz band, the power of any emission shall be attenuated outside the band below the transmitter power (P) by at least 43 + 10 log (P) dB;
- 2) On any frequency outside the 776-788 MHz band, the power of any emission shall be attenuated outside the band below the transmitter power (P) by at least 43 + 10 log (P) dB;
- 3) On all frequencies between 763-775 MHz and 793-805 MHz, by a factor not less than 76 + 10 log (P) dB in a 6.25 kHz band segment, for base and fixed stations;
- 4) On all frequencies between 763-775 MHz and 793-805 MHz, by a factor not less than 65 + 10 log (P) dB in a 6.25 kHz band segment, for mobile and portable stations.

TEST CONFIGURATION



TEST PROCEDURE

- 1. The EUT was connected to the spectrum analyzer and communication tester via a power splitter
- 2. Set EUT in maximum power output.
- 3. The band edges of low and high channels were measured.
- Spectrum analyzer setting as follow:
 RBW= no less than 1% of the OBW, VBW =3 * RBW, Sweep time= Auto
- 5. Record the test plot.

TEST MODE

Please refer to the clause 4.2

TEST RESULTS

TEST DATA

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5.5. Conducted Spurious Emissions

LIMIT

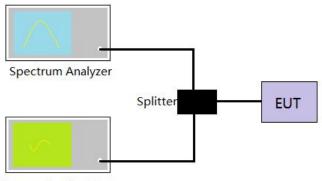
Part 24.238 and Part 22.917 and Part 27.53 specify that the power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least 43 + 10 log(P) dB.

The specification that emissions shall be attenuated below the transmitter power (P) by at least 43 + 10 log (P) dB, translates in the relevant power range (1 to 0.001 W) to -13 dBm. At 1 W the specified minimum attenuation becomes 43 dB and relative to a 30 dBm (1 W) carrier becomes a limit of -13 dBm. At 0.001 W (0 dBm) the minimum attenuation is 13 dB, which again yields a limit of -13 dBm. In this way a translation of the specification from relative to absolute terms is carried out.

Part 27.53(c) For operations in the 746-758 MHz band and the 776-788 MHz band, the power of any emission outside the licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, in accordance with the following:

- 1) On any frequency outside the 746-758 MHz band, the power of any emission shall be attenuated outside the band below the transmitter power (P) by at least 43 + 10 log (P) dB;
- 2) On any frequency outside the 776-788 MHz band, the power of any emission shall be attenuated outside the band below the transmitter power (P) by at least 43 + 10 log (P) dB;
- 3) On all frequencies between 763-775 MHz and 793-805 MHz, by a factor not less than 76 + 10 log (P) dB in a 6.25 kHz band segment, for base and fixed stations;
- 4) On all frequencies between 763-775 MHz and 793-805 MHz, by a factor not less than 65 + 10 log (P) dB in a 6.25 kHz band segment, for mobile and portable stations.

TEST CONFIGURATION



Communication Tester

TEST PROCEDURE

- 1. The EUT was connected to the spectrum analyzer and communication tester via a power splitter
- Set EUT in maximum power output.
- 3. Spectrum analyzer setting as follow:

Below 1GHz, RBW=100KHz, VBW = 300KHz, Detector=RMS, Sweep time= Auto Above 1GHz, RBW=1MHz, VBW=3MHz, Detector=RMS, Sweep time= Auto

Scan frequency range up to 10th harmonic.

4. Record the test plot.

TEST MODE

Please refer to the clause 4.2

TEST RESULTS

TEST DATA

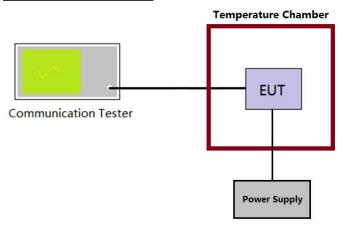
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5.6. Frequency stability VS Temperature measurement

<u>LIMIT</u>

2.5ppm

TEST CONFIGURATION



TEST PROCEDURE

- 1. The equipment under test was connected to an external DC power supply and input rated voltage.
- 2. The EUT output port was connected to communication tester.
- 3. The EUT was placed inside the temperature chamber.
- 4. Turn EUT off and set the chamber temperature to –30°C. After the temperature stabilized for approximately 30 minutes recorded the frequency.
- 5. Repeat step 4 measure with 10°C increased per stage until the highest temperature of +50°C reached.

TEST MODE

Please refer to the clause 4.2

TEST RESULTS

 $oxed{oxed}$ Passed $oxed{oxed}$ Not Applicable

TEST DATA

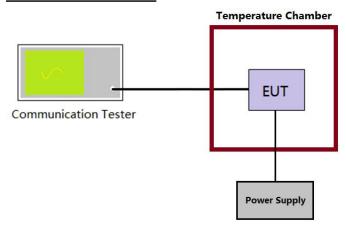
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5.7. Frequency stability VS Voltage measurement

<u>LIMIT</u>

2.5ppm

TEST CONFIGURATION



TEST PROCEDURE

- 1. The equipment under test was connected to an external DC power supply and input rated voltage.
- 2. The EUT output port was connected to communication tester.
- 3. The EUT was placed inside the temperature chamber at 25°C
- 4. The power supply voltage to the EUT was varied ±15% of the nominal value measured at the input to the EUT
- 5. Record the maximum frequency change.

TEST MODE

Please refer to the clause 4.2

TEST RESULTS

TEST DATA

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5.8. ERP and EIRP

LIMIT

LTE Band 2: 2W EIRP LTE Band 4: 1W EIRP LTE Band 5: 7W ERP LTE Band 12/13: 3W ERP

TEST PROCEDURE

- 1. According to the power tested in section 5.1, select the maximum power in each mode, and use the following formula to calculate the corresponding ERP/EIRP.
- 2. ERP = conducted power + Gain(dBd)
- 3. EIRP = conducted power + Gain(dBi)

ERP = EIRP - 2.15

TEST RESULTS

TEST DATA

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5.9. Radiated Spurious Emission

LIMIT

Part 24.238 and Part 22.917 and Part 27.53 specify that the power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least 43 + 10 log(P) dB.

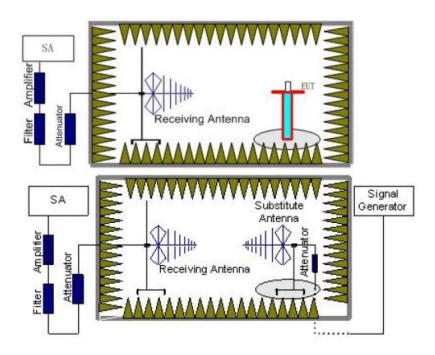
The specification that emissions shall be attenuated below the transmitter power (P) by at least 43 + 10 log (P) dB, translates in the relevant power range (1 to 0.001 W) to -13 dBm. At 1 W the specified minimum attenuation becomes 43 dB and relative to a 30 dBm (1 W) carrier becomes a limit of -13 dBm. At 0.001 W (0 dBm) the minimum attenuation is 13 dB, which again yields a limit of -13 dBm. In this way a translation of the specification from relative to absolute terms is carried out.

Part 27.53(c) For operations in the 746-758 MHz band and the 776-788 MHz band, the power of any emission outside the licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, in accordance with the following:

- 1) On any frequency outside the 746-758 MHz band, the power of any emission shall be attenuated outside the band below the transmitter power (P) by at least 43 + 10 log (P) dB;
- 2) On any frequency outside the 776-788 MHz band, the power of any emission shall be attenuated outside the band below the transmitter power (P) by at least 43 + 10 log (P) dB;
- 3) On all frequencies between 763-775 MHz and 793-805 MHz, by a factor not less than 76 + 10 log (P) dB in a 6.25 kHz band segment, for base and fixed stations;
- 4) On all frequencies between 763-775 MHz and 793-805 MHz, by a factor not less than 65 + 10 log (P) dB in a 6.25 kHz band segment, for mobile and portable stations.

Part 27.53(f) For operations in the 746-758 MHz, 775-788 MHz, and 805-806 MHz bands, emissions in the band 1559-1610 MHz shall be limited to -70 dBW/MHz equivalent isotropically radiated power (EIRP) for wideband signals, and -80 dBW EIRP for discrete emissions of less than 700 Hz bandwidth.

TEST CONFIGURATION



TEST PROCEDURE

- Place the EUT in the center of the turntable.
 - a) For radiated emissions measurements performed at frequencies less than or equal to 1 GHz, the EUT shall be placed on a RF-transparent table at a nominal height of 80 cm above the reference ground plane
 - b) For radiated measurements performed at frequencies above 1 GHz, the EUT shall be placed on an RF transparent table at a nominal height of 1.5 m above the ground plane.
- 2. Unless the EUT uses an integral antenna, the EUT shall be terminated with a non-radiating transmitter load. In cases where the EUT uses an adjustable antenna, the antenna shall be adjusted through typical

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positions and lengths to maximize emissions levels.

- 3. The EUT shall be tested while operating on the frequency per manufacturer specification. Set the transmitter to operate in continuous transmit mode.
- Receiver or Spectrum set as follow:

Below 1GHz, RBW=100kHz, VBW=300kHz, Detector=Peak, Sweep time=Auto

Above 1GHz, RBW=1MHz, VBW=3MHz, Detector=Peck, Sweep time=Auto

- 5. Each emission under consideration shall be evaluated:
 - a) Raise and lower the measurement antenna from 1 m to 4 m, as necessary to enable detection of the maximum emission amplitude relative to measurement antenna height.
 - b) Rotate the EUT through 360° to determine the maximum emission level relative to the axial position.
 - c) Return the turntable to the azimuth where the highest emission amplitude level was observed.
 - d) Vary the measurement antenna height again through 1 m to 4 m again to find the height associated with the maximum emission amplitude.
 - e) Record the measured emission amplitude level and frequency
- 6. Repeat step 5 for each emission frequency with the measurement antenna oriented in both the horizontal and vertical polarizations to determine the orientation that gives the maximum emissions amplitude.
- 7. Set-up the substitution measurement with the reference point of the substitution antenna located as near as possible to where the center of the EUT radiating element was located during the initial EUT measurement.
- 8. Maintain the previous measurement instrument settings and test set-up, with the exception that the EUT is removed and replaced by the substitution antenna.
- 9. Connect a signal generator to the substitution antenna; locate the signal generator so as to minimize any potential influences on the measurement results. Set the signal generator to the frequency where emissions are detected, and set an output power level such that the radiated signal can be detected by the measurement instrument, with sufficient dynamic range relative to the noise floor.
- 10. For each emission that was detected and measured in the initial test
 - a) Vary the measurement antenna height between 1 m to 4 m to maximize the received (measured) signal amplitude.
 - b) Adjust the signal generator output power level until the amplitude detected by the measurement instrument equals the amplitude level of the emission previously measured directly in step 5 and step 6.
 - c) Record the output power level of the signal generator when equivalence is achieved in step b).
- 11. Repeat step 8 through step 10 with the measurement antenna oriented in the opposite polarization.
- 12. Calculate the emission power in dBm referenced to a half-wave dipole using the following equation:

Pe = Ps(dBm) - cable loss (dB) + antenna gain (dBd)

where

Pe = equivalent emission power in dBm

Ps = source (signal generator) power in dBm

NOTE—dBd refers to the measured antenna gain in decibels relative to a half-wave dipole.

13. Correct the antenna gain of the substitution antenna if necessary to reference the emission power to a half-wave dipole. When using measurement antennas with the gain specified in dBi, the equivalent dipole-referenced gain can be determined from:

gain (dBd) = gain (dBi) -2.15 dB.

If necessary, the antenna gain can be calculated from calibrated antenna factor information

14. Provide the complete measurement results as a part of the test report.

TEST MODE

Please refer to the clause 4.2

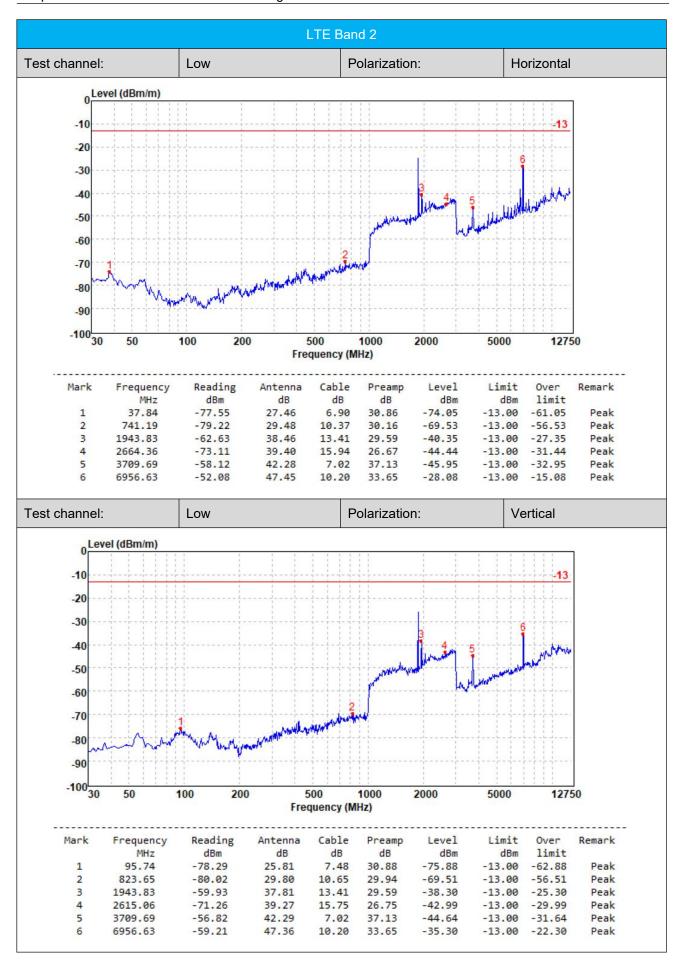
TEST RESULTS

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|-------------|----------------|-------|----------|----------------|------------|--|
| ⊠ Passed | ☐ Not Applical | ble | | | | |

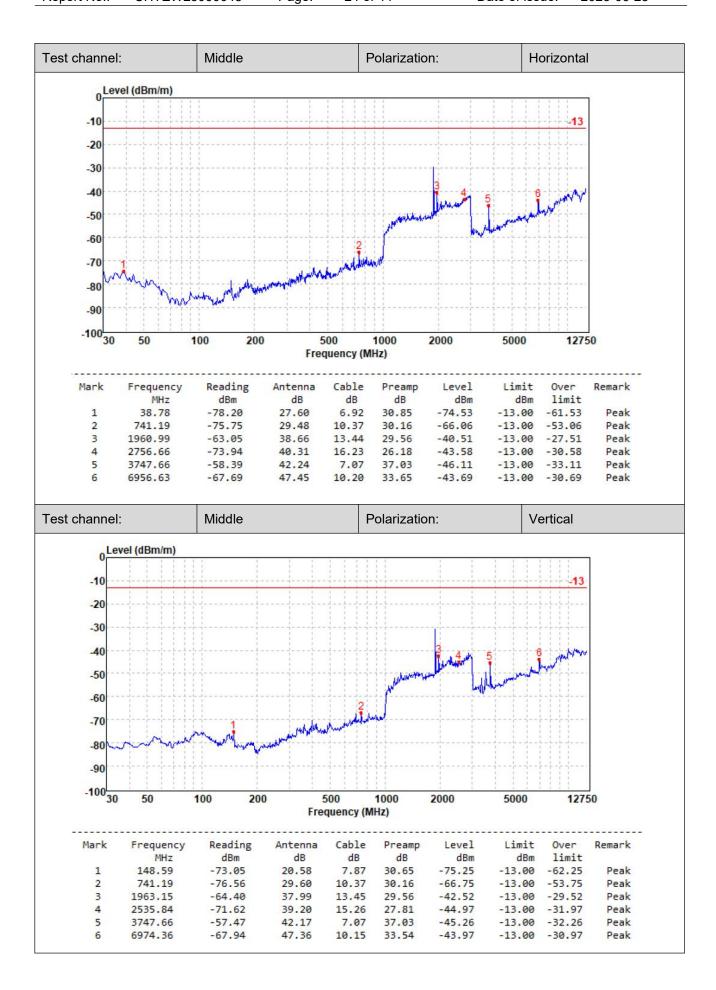
Note: only show the worse case for QPSK modulation.

Report Template Version: V04 (2022-01)

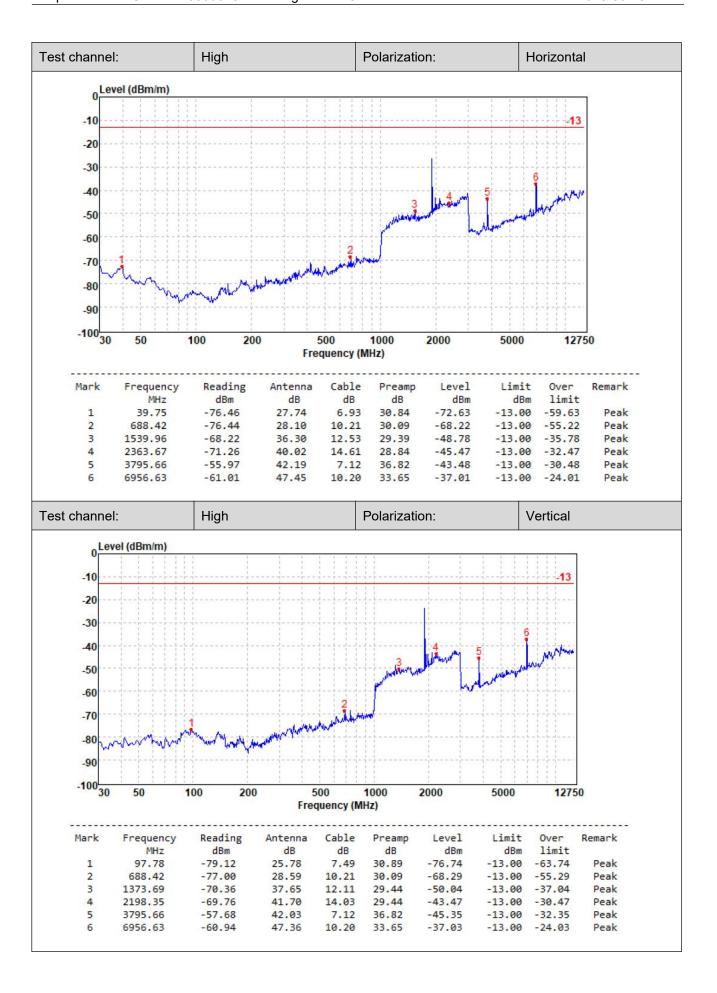
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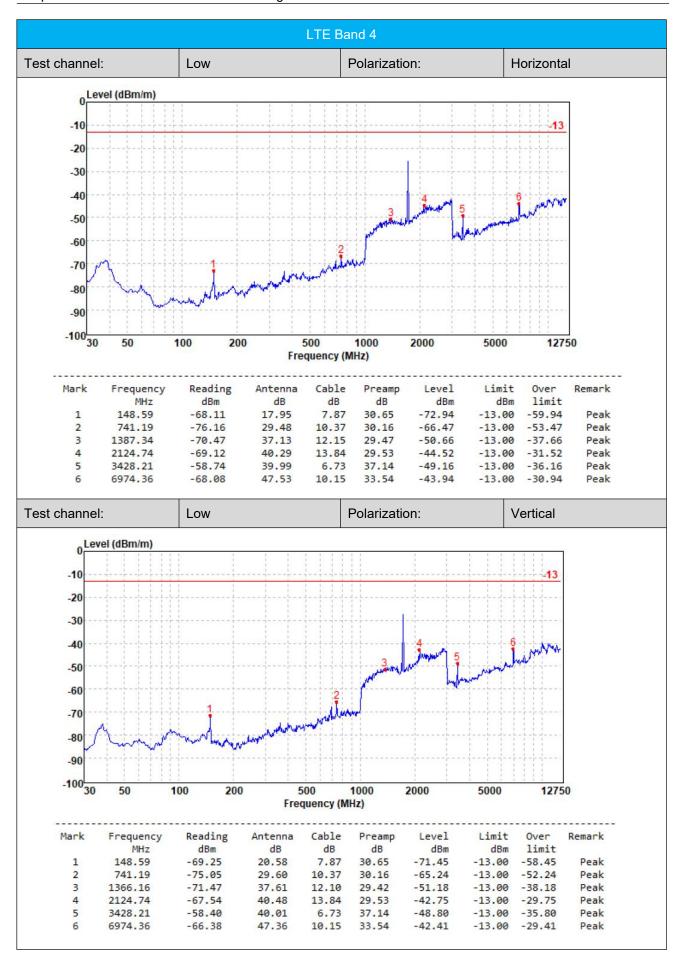
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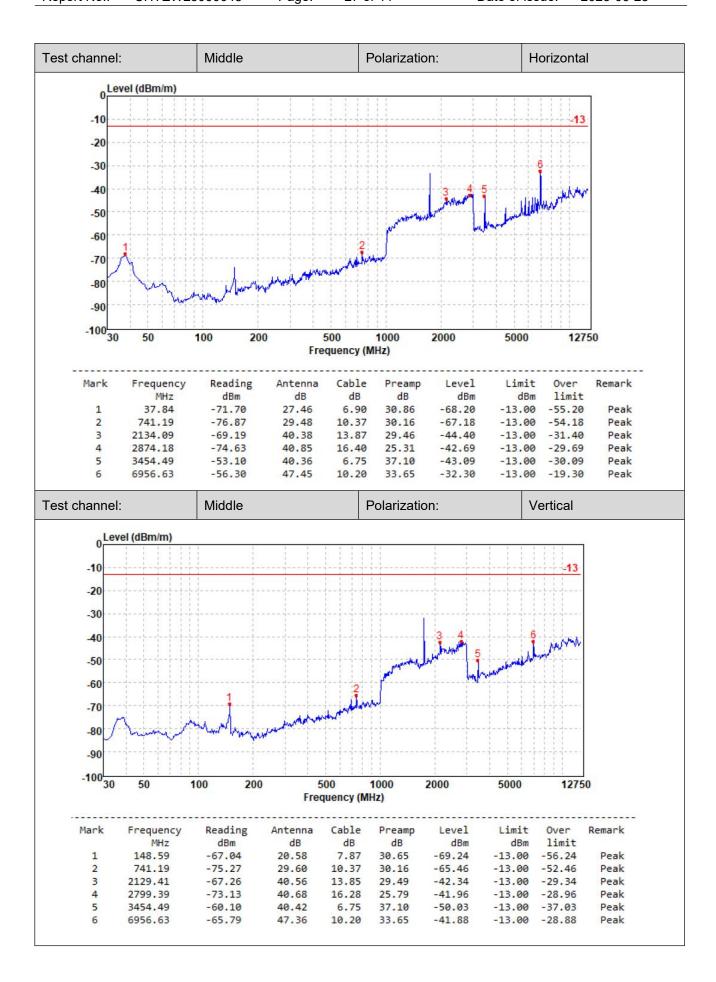
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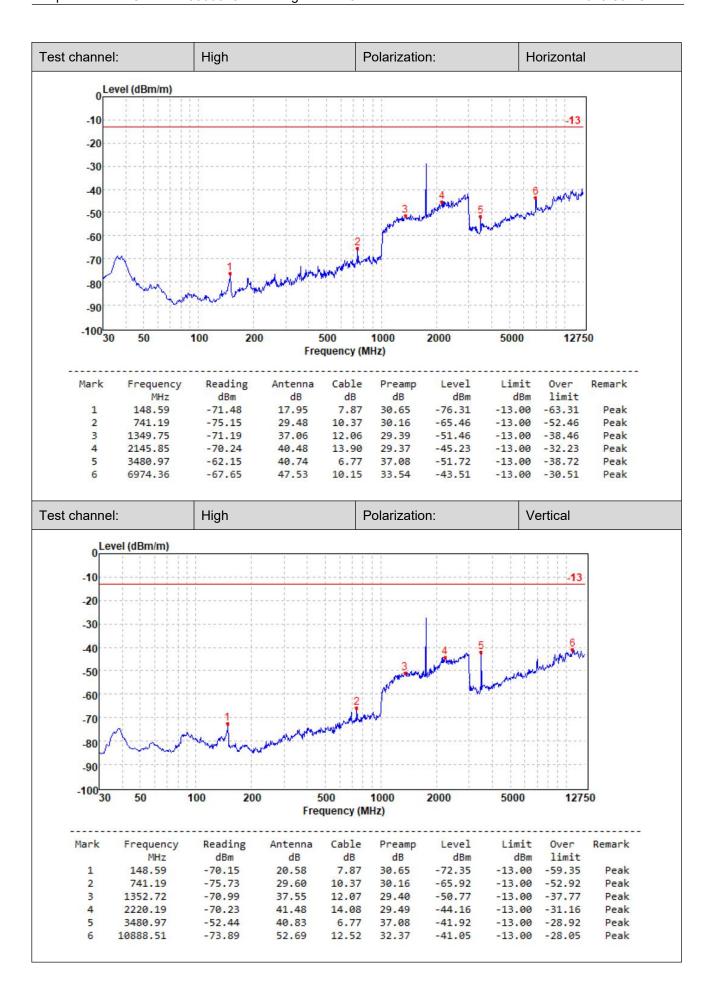
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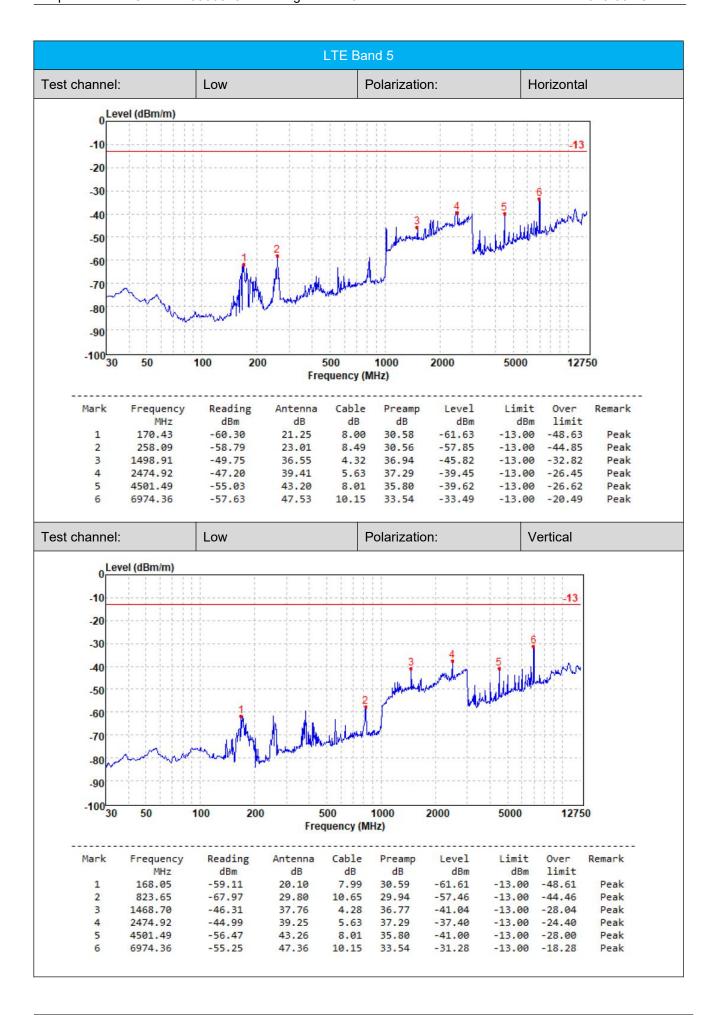
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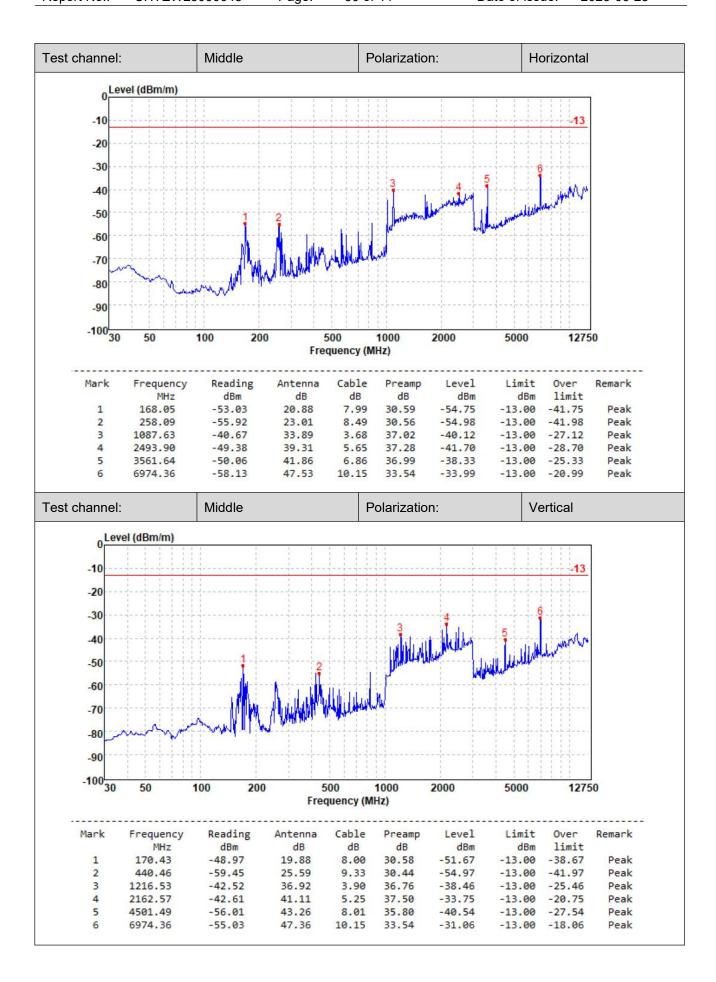
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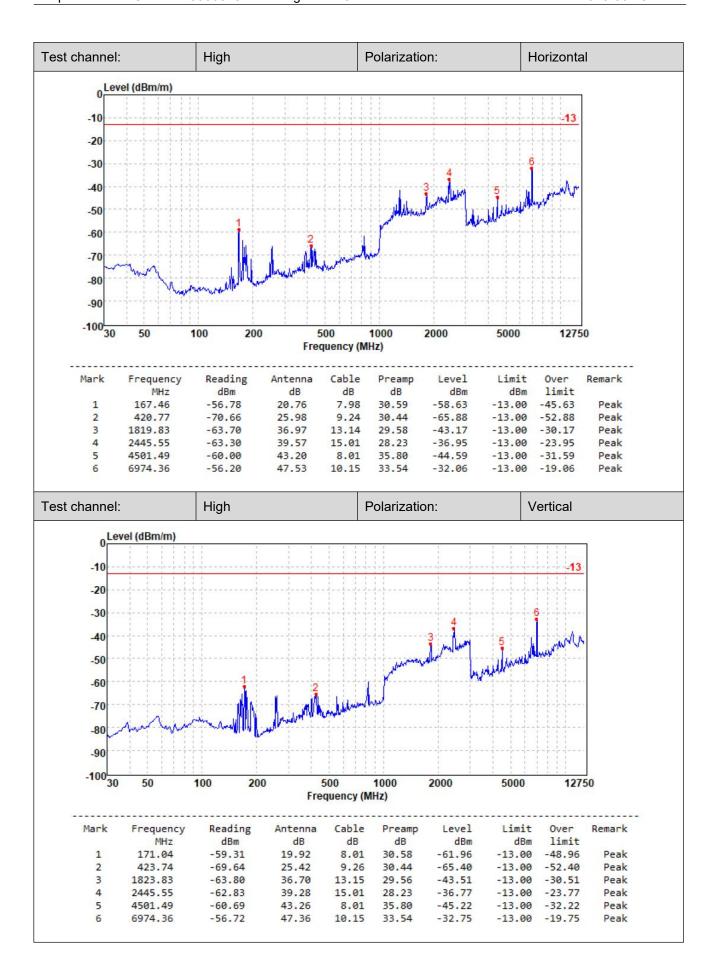
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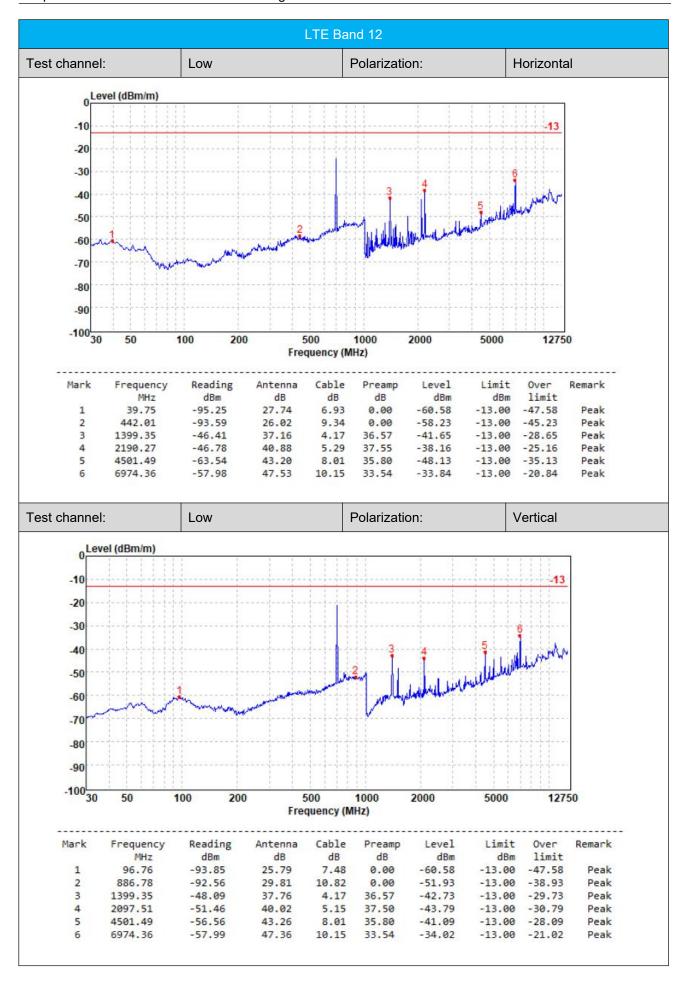
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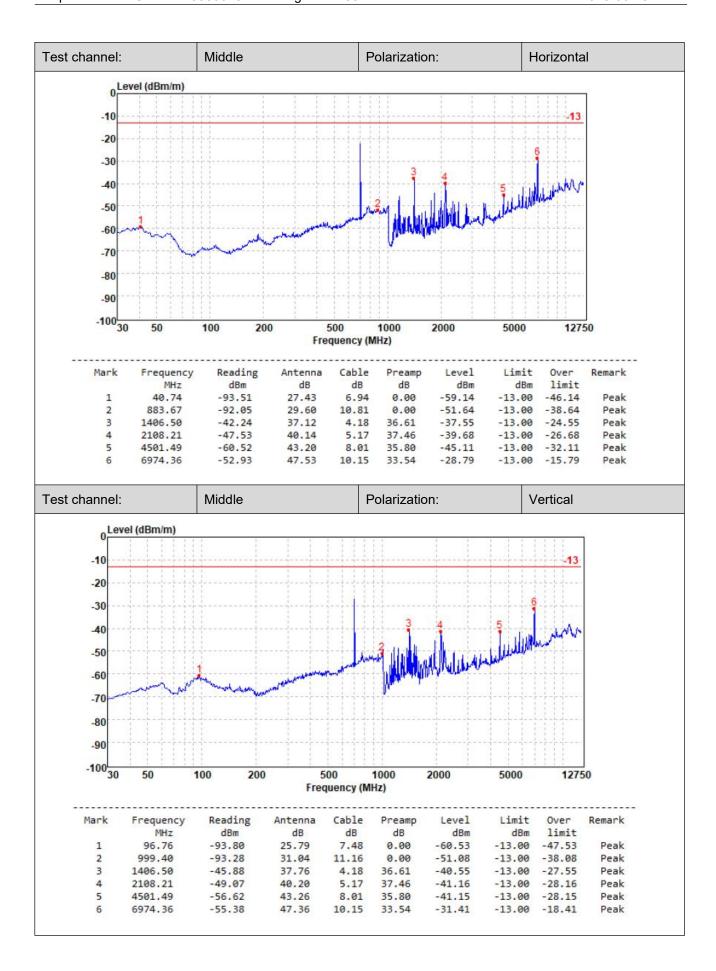
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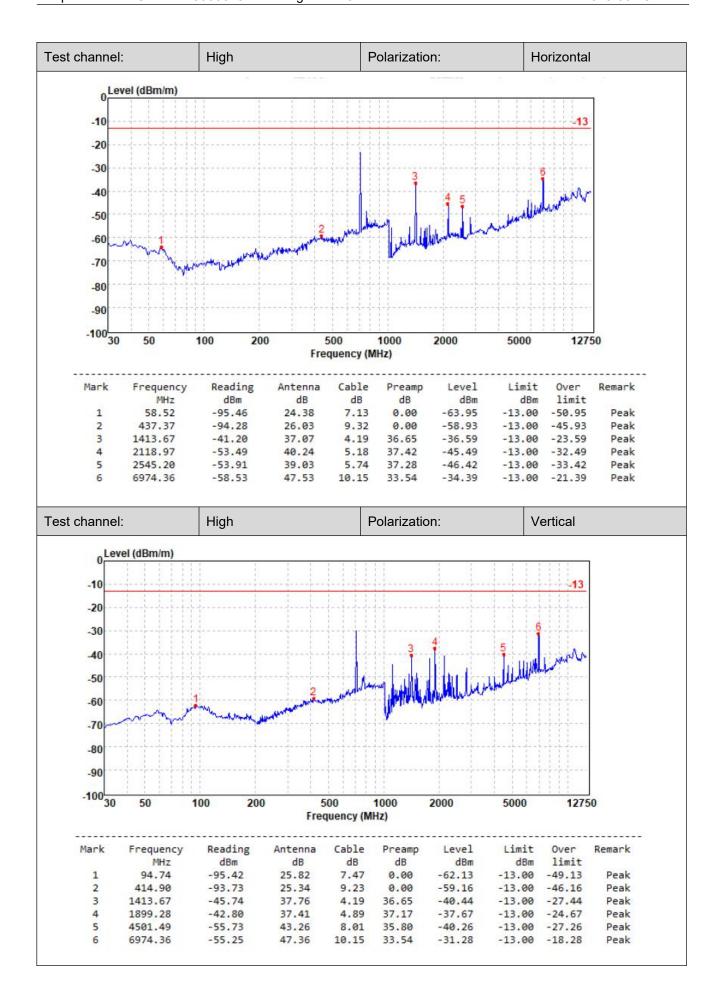
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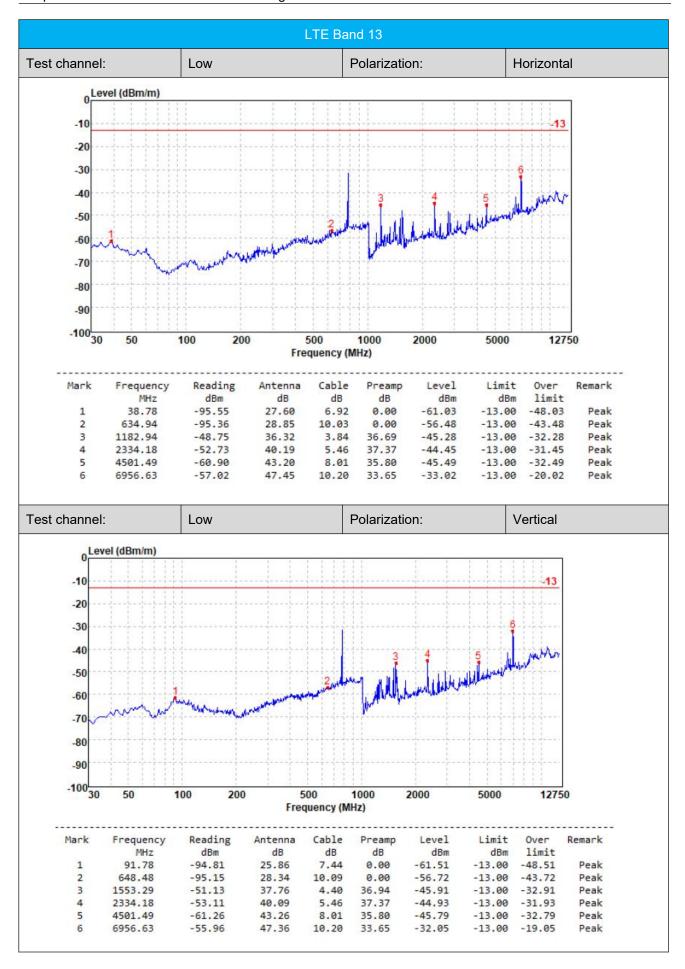
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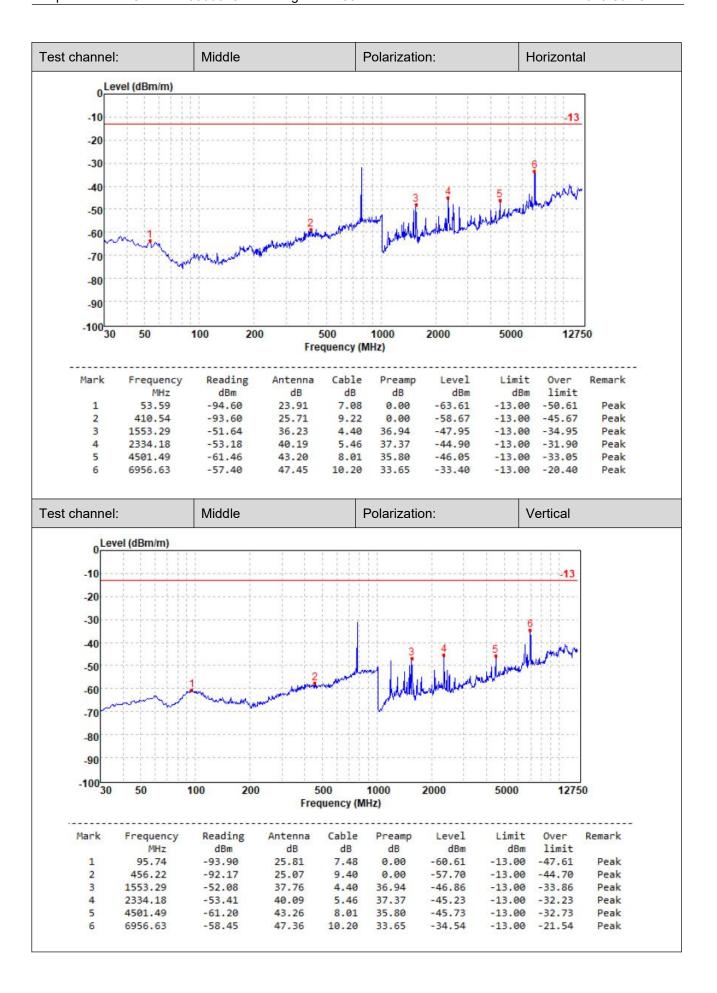
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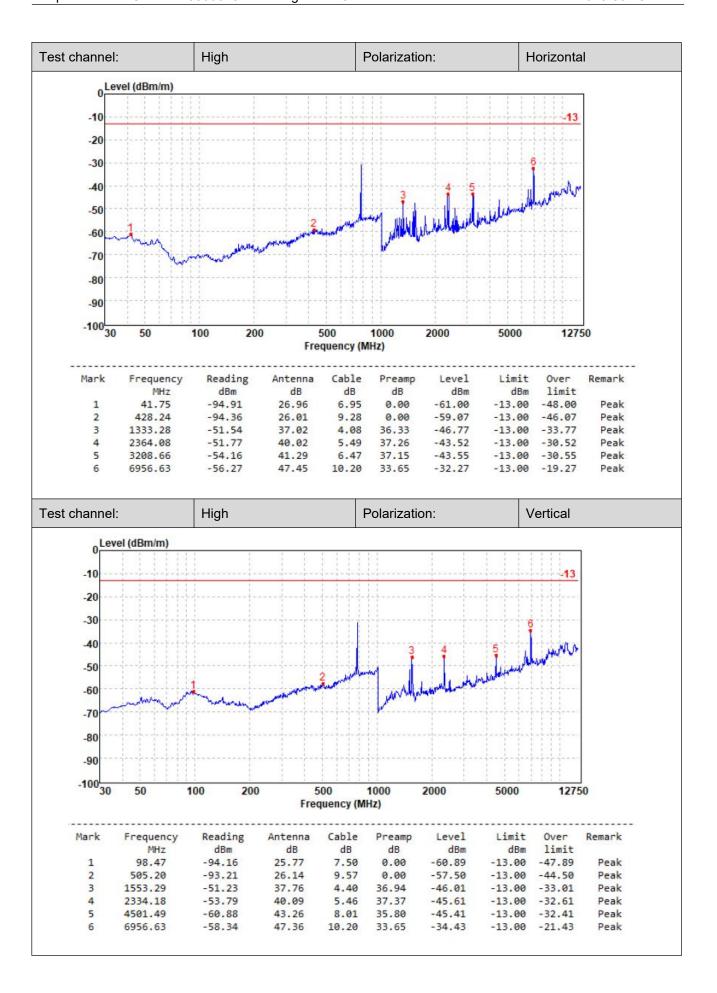
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6. TEST SETUP PHOTOS OF THE EUT







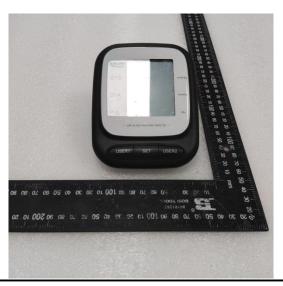
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7. EXTERNAL AND INTERNAL PHOTOS OF THE EUT

7.1 External photos







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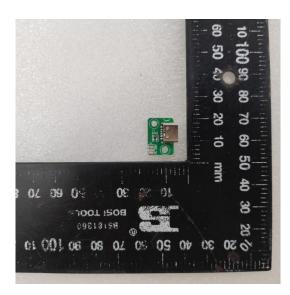
7.2 Internal photos

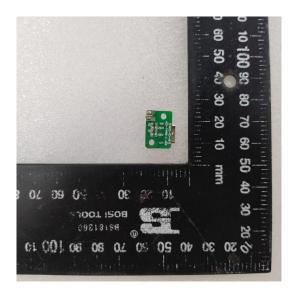


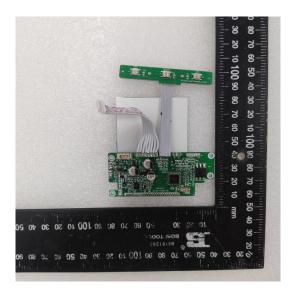




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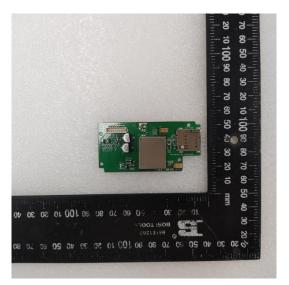


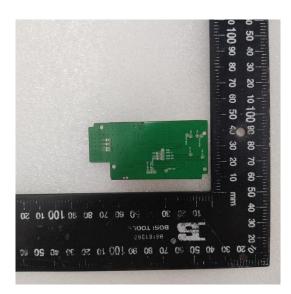




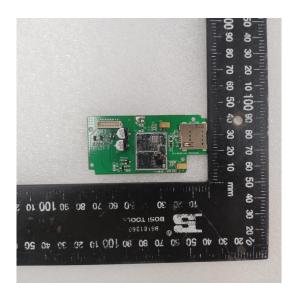
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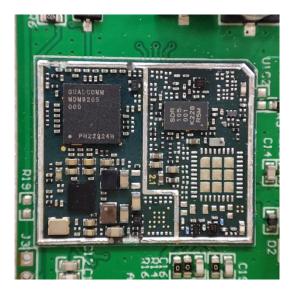






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8. APPENDIX REPORT