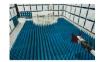


PCTEST

7185 Oakland Mills Road, Columbia, MD 21046 USA Tel. 410.290.6652 / Fax 410.290.6654 http://www.pctest.com



MEASUREMENT REPORT

LTE

Applicant Name:

LG Electronics USA, Inc. 1000 Sylvan Avenue Englewood Cliffs, NJ 07632 United States

Date of Testing:

2/24 – 4/10/2020 **Test Site/Location:** PCTEST Lab. Columbia, MD, USA **Test Report Serial No.:** 1M2002250026-02-R1.ZNF

FCC ID:

ZNFK300TM

Certification

APPLICANT:

LG Electronics USA, Inc.

Application Type: Model: Additional Model(s):

EUT Type: FCC Classification: FCC Rule Part(s): Test Procedure(s): LM-K300TM LM-K300TMS, LMK300TM, LMK300TMS, K300TM, K300TMS, LM-K300MM, LMK300MM, K300MM Portable Handset PCS Licensed Transmitter Held to Ear (PCE) 22, 24, & 27 ANSI C63.26-2015, ANSI/TIA-603-E-2016, KDB 971168 D01 v03r01

This equipment has been shown to be capable of compliance with the applicable technical standards as indicated in the measurement report and was tested in accordance with the measurement procedures specified in §2.947. Test results reported herein relate only to the item(s) tested.

This revised Test Report (S/N: 1M2002250026-02-R1.FCC Report SNs) supersedes and replaces the previously issued test report on the same subject device for the same type of testing as indicated. Please discard or destroy the previously issued test report(s) and dispose of it accordingly.

I attest to the accuracy of data. All measurements reported herein were performed by me or were made under my supervision and are correct to the best of my knowledge and belief. I assume full responsibility for the completeness of these measurements and vouch for the qualifications of all persons taking them.

Randy Ortanez President



| FCC ID: ZNFK300TM | PCTEST* | MEASUREMENT REPORT (CERTIFICATION) | Approved by: Quality Manager |
|------------------------|------------------|---------------------------------------|---------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | Dage 1 of 250 |
| 1M2002250026-02-R1.ZNF | 2/24 - 4/10/2020 | Portable Handset | Page 1 of 250 |
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TABLE OF CONTENTS

| 1.0 | INTR | ODUCTION | 6 |
|-----|------|---|-------|
| | 1.1 | Scope | 6 |
| | 1.2 | PCTEST Test Location | 6 |
| | 1.3 | Test Facility / Accreditations | 6 |
| 2.0 | PRO | DUCT INFORMATION | 7 |
| | 2.1 | Equipment Description | 7 |
| | 2.2 | Device Capabilities | 7 |
| | 2.3 | Test Configuration | 7 |
| | 2.4 | EMI Suppression Device(s)/Modifications | 7 |
| 3.0 | DESC | RIPTION OF TESTS | 8 |
| | 3.1 | Measurement Procedure | 8 |
| | 3.2 | Block C Frequency Range | 8 |
| | 3.3 | Block A Frequency Range | 8 |
| | 3.4 | Cellular - Base Frequency Blocks | 8 |
| | 3.5 | Cellular - Mobile Frequency Blocks | 8 |
| | 3.6 | PCS - Base Frequency Blocks | 9 |
| | 3.7 | PCS - Mobile Frequency Blocks | 9 |
| | 3.8 | AWS - Base Frequency Blocks | 9 |
| | 3.9 | AWS - Mobile Frequency Blocks | 9 |
| | 3.10 | BRS/EBS Frequency Block | 10 |
| | 3.11 | Radiated Power and Radiated Spurious Emissions | 10 |
| 4.0 | MEAS | SUREMENT UNCERTAINTY | 12 |
| 5.0 | TEST | EQUIPMENT CALIBRATION DATA | 13 |
| 6.0 | SAMF | PLE CALCULATIONS | 14 |
| 7.0 | TEST | RESULTS | 15 |
| | 7.1 | Summary | 15 |
| | 7.2 | Occupied Bandwidth | 17 |
| | 7.3 | Spurious and Harmonic Emissions at Antenna Terminal | 71 |
| | 7.4 | Band Edge Emissions at Antenna Terminal | . 104 |
| | 7.5 | Peak-Average Ratio | . 167 |
| | 7.6 | Uplink Carrier Aggregation | . 186 |
| | 7.7 | Radiated Power (ERP/EIRP) | . 204 |
| | 7.8 | Radiated Spurious Emissions Measurements | |
| | 7.9 | Uplink Carrier Aggregation Radiated Measurements | .230 |
| | 7.10 | Frequency Stability / Temperature Variation | .235 |
| 8.0 | CON | CLUSION | 250 |

| FCC ID: ZNFK300TM | Proud to be part of @ element | MEASUREMENT REPORT (CERTIFICATION) | Approved by: Quality Manager | | |
|--------------------------------|-------------------------------|---------------------------------------|---------------------------------|--|--|
| Test Report S/N: | Test Dates: | EUT Type: | Dage 2 of 250 | | |
| 1M2002250026-02-R1.ZNF | 2/24 - 4/10/2020 | Portable Handset | Page 2 of 250 | | |
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MEASUREMENT REPORT FCC Part 22, 24, & 27



| | | | ERP | | EIRP | | | | |
|--------------------------------|------------------|--------------------------------|-------------------|---------------------|-------------------|---------------------|------------------------|----------------|--|
| Mode | FCC Rule Part | Tx Frequency (MHz) | Max. Power (W) | Max. Power (dBm) | Max. Power (W) | Max. Power (dBm) | Emission Designator | Modulation | |
| LTE Band 71 | 27 | 665.5 - 695.5 | 0.063 | 17.98 | | | 4M54G7D | QPSK | |
| LTE Band 71 | 27 | 665.5 - 695.5 | 0.053 | 17.27 | | | 4M53W7D | 16QAM | |
| LTE Band 71 | 27 | 665.5 - 695.5 | 0.030 | 15.99 | | | 4M55W7D | 64QAM | |
| LTE Band 71 | 27 | 668 - 693 | 0.040 | 17.93 | | | 9M06G7D | QPSK | |
| LTE Band 71 | 27 | 668 - 693 | 0.052 | 17.18 | | | 9M02W7D | 16QAM | |
| LTE Band 71 | 27 | 668 - 693 | 0.039 | 15.90 | | | 9M06W7D | 64QAM | |
| LTE Band 71 | 27 | 670.5 - 690.5 | 0.059 | 17.70 | | | 13M5G7D | QPSK | |
| LTE Band 71 | 27 | 670.5 - 690.5 | 0.052 | 17.12 | | | 13M5W7D | 16QAM | |
| LTE Band 71 | 27 | 670.5 - 690.5 | 0.032 | 15.96 | | | 13M5W7D | 64QAM | |
| LTE Band 71 | 27 | 673 - 688 | 0.062 | 17.90 | | | 18M0G7D | QPSK | |
| LTE Band 71 | 27 | 673 - 688 | 0.048 | 16.80 | | | 18M1W7D | 16QAM | |
| LTE Band 71 | 27 | 673 - 688 | 0.048 | 15.73 | | | 18M0W7D | 64QAM | |
| LTE Band 12 | 27 | 699.7 - 715.3 | 0.037 | 15.64 | 0.060 | 17.79 | 1M10G7D | QPSK | |
| LTE Band 12 | 27 | 699.7 - 715.3 | 0.037 | 14.40 | 0.080 | 16.55 | 1M10G7D | 16QAM | |
| LTE Band 12 | 27 | 699.7 - 715.3 | 0.028 | 13.92 | 0.045 | 16.07 | 1M10W7D | 64QAM | |
| LTE Band 12 | 27 | 700.5 - 714.5 | 0.025 | 15.69 | 0.040 | 17.84 | 2M69G7D | QPSK | |
| LTE Band 12 | 27 | 700.5 - 714.5 | 0.037 | 15.69 | 0.061 | 17.04 | 2M69W7D | 16QAM | |
| | 27 | | | | | 17.12 | | 64QAM | |
| LTE Band 12 | | 700.5 - 714.5 | 0.031 | 14.97 | 0.052 | 17.12 | 2M70W7D | QPSK | |
| LTE Band 12 | 27 27 | 701.5 - 713.5 | 0.038 | 15.82 | 0.063 | 17.89 | 4M55G7D | | |
| LTE Band 12 | 27 | 701.5 - 713.5 701.5 - 713.5 | 0.037 | 15.74 14.74 | 0.062 | 16.89 | 4M54W7D | 16QAM 64QAM | |
| LTE Band 12 | | | | | 0.049 | | 4M54W7D | QPSK | |
| LTE Band 12 | 27 27 | 704 - 711 704 - 711 | 0.075 | 18.77 | | 20.92 | 9M07G7D | | |
| LTE Band 12 LTE Band 12 | 27 | 704 - 711 | 0.056 | 17.52 16.31 | 0.093 | 19.67 18.46 | 9M02W7D 9M05W7D | 16QAM 64QAM | |
| | 27 | 779.5 - 784.5 | | | | 20.50 | | QPSK | |
| LTE Band 13 | | | 0.068 | 18.35 | 0.112 | | 4M52G7D | | |
| LTE Band 13 | 27 27 | 779.5 - 784.5 779.5 - 784.5 | 0.057 | 17.56 | 0.094 | 19.71 | 4M51W7D | 16QAM | |
| LTE Band 13 | | | 0.044 | 16.48 | 0.073 | 18.63 | 4M52W7D | 64QAM | |
| LTE Band 13 | 27 27 | 782 | 0.071 | 18.54 | 0.117 | 20.69 | 9M00G7D | QPSK 1000M | |
| LTE Band 13 | 27 | 782 | 0.054 | 17.32 16.22 | 0.089 | 19.47 | 8M99W7D | 16QAM | |
| LTE Band 13 | | 782 | 0.042 | | 0.069 | 18.37 | 9M00W7D | 64QAM | |
| LTE Band 26/5 | 22H 22H | 824.7 - 848.3 | 0.076 | 18.82 | 0.125 | 20.97 20.10 | 1M10G7D | QPSK 1004M | |
| LTE Band 26/5 | 22H 22H | 824.7 - 848.3 | 0.062 | 17.95 | 0.102 | | 1M11W7D | 16QAM | |
| LTE Band 26/5 | | 824.7 - 848.3 | 0.047 | 16.68 | 0.076 | 18.83 | 1M10W7D | 64QAM | |
| LTE Band 26/5 LTE Band 26/5 | 22H 22H | 825.5 - 847.5 | 0.075 | 18.77 17.92 | 0.124 | 20.92 20.07 | 2M69G7D | QPSK 1000M | |
| | | 825.5 - 847.5 | 1 | | | | 2M69W7D | 16QAM | |
| LTE Band 26/5 | 22H | 825.5 - 847.5 | 0.050 | 17.00 | 0.082 | 19.15 | 2M69W7D | 64QAM | |
| LTE Band 26/5 | 22H 22H | 826.5 - 846.5 | 0.078 | 18.90 | 0.127 | 21.05 | 4M51G7D | QPSK 160AM | |
| LTE Band 26/5 | | 826.5 - 846.5 | 0.062 | 17.93 | 0.102 | 20.08 | 4M51W7D | 16QAM | |
| LTE Band 26/5 | 22H 22H | 826.5 - 846.5 | 0.050 | 16.95 | 0.081 | 19.10 21.05 | 4M52W7D | 64QAM QPSK | |
| LTE Band 26/5 | | 829 - 844 | 0.078 | 18.90 | | | 9M10G7D | | |
| LTE Band 26/5 | 22H | 829 - 844 | 0.062 | 17.94 | 0.102 | 20.09 | 9M01W7D | 16QAM | |
| LTE Band 26/5 | 22H | 829 - 844 | 0.048 | 16.79 | 0.078 | 18.94 | 9M01W7D | 64QAM | |
| LTE Band 26 | 22H | 831.5 - 841.5 | 0.078 | 18.92 | 0.128 | 21.07 | 13M5G7D | QPSK 1004M | |
| LTE Band 26 | 22H | 831.5 - 841.5 | 0.060 | 17.76 | 0.098 | 19.91 | 13M5W7D | 16QAM | |
| LTE Band 26 | 22H | 831.5 - 841.5 | 0.048 | 16.83 | 0.079 | 18.98 | 13M5W7D | 64QAM | |

EUT Overview (<1 GHz)

| FCC ID: ZNFK300TM | PCTEST* | MEASUREMENT REPORT (CERTIFICATION) | LG | Approved by: Quality Manager |
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| Test Report S/N: | Test Dates: | EUT Type: | | Daga 2 of 250 |
| 1M2002250026-02-R1.ZNF | 2/24 - 4/10/2020 | Portable Handset | | Page 3 of 250 |
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| | | | EI | RP | | |
|---------------|------------------|--------------------|-------------------|---------------------|------------------------|------------|
| Mode | FCC Rule Part | Tx Frequency (MHz) | Max. Power (W) | Max. Power (dBm) | Emission Designator | Modulation |
| LTE Band 66/4 | 27 | 1710.7 - 1779.3 | 0.153 | 21.84 | 1M10G7D | QPSK |
| LTE Band 66/4 | 27 | 1710.7 - 1779.3 | 0.114 | 20.55 | 1M10W7D | 16QAM |
| LTE Band 66/4 | 27 | 1710.7 - 1779.3 | 0.095 | 19.80 | 1M10W7D | 64QAM |
| LTE Band 66/4 | 27 | 1711.5 - 1778.5 | 0.153 | 21.86 | 2M69G7D | QPSK |
| LTE Band 66/4 | 27 | 1711.5 - 1778.5 | 0.117 | 20.67 | 2M69W7D | 16QAM |
| LTE Band 66/4 | 27 | 1711.5 - 1778.5 | 0.099 | 19.94 | 2M70W7D | 64QAM |
| LTE Band 66/4 | 27 | 1712.5 - 1777.5 | 0.154 | 21.87 | 4M53G7D | QPSK |
| LTE Band 66/4 | 27 | 1712.5 - 1777.5 | 0.122 | 20.85 | 4M53W7D | 16QAM |
| LTE Band 66/4 | 27 | 1712.5 - 1777.5 | 0.095 | 19.80 | 4M55W7D | 64QAM |
| LTE Band 66/4 | 27 | 1715 - 1775 | 0.154 | 21.88 | 9M09G7D | QPSK |
| LTE Band 66/4 | 27 | 1715 - 1775 | 0.120 | 20.80 | 9M02W7D | 16QAM |
| LTE Band 66/4 | 27 | 1715 - 1775 | 0.094 | 19.75 | 9M04W7D | 64QAM |
| LTE Band 66/4 | 27 | 1717.5 - 1772.5 | 0.154 | 21.88 | 13M6G7D | QPSK |
| LTE Band 66/4 | 27 | 1717.5 - 1772.5 | 0.118 | 20.72 | 13M5W7D | 16QAM |
| LTE Band 66/4 | 27 | 1717.5 - 1772.5 | 0.094 | 19.71 | 13M5W7D | 64QAM |
| LTE Band 66/4 | 27 | 1720 - 1770 | 0.155 | 21.91 | 18M0G7D | QPSK |
| LTE Band 66/4 | 27 | 1720 - 1770 | 0.124 | 20.93 | 18M0W7D | 16QAM |
| LTE Band 66/4 | 27 | 1720 - 1770 | 0.098 | 19.91 | 18M1W7D | 64QAM |
| LTE Band 25/2 | 24E | 1850.7 - 1914.3 | 0.185 | 22.66 | 1M10G7D | QPSK |
| LTE Band 25/2 | 24E | 1850.7 - 1914.3 | 0.151 | 21.78 | 1M10W7D | 16QAM |
| LTE Band 25/2 | 24E | 1850.7 - 1914.3 | 0.119 | 20.77 | 1M10W7D | 64QAM |
| LTE Band 25/2 | 24E | 1851.5 - 1913.5 | 0.185 | 22.68 | 2M69G7D | QPSK |
| LTE Band 25/2 | 24E | 1851.5 - 1913.5 | 0.153 | 21.84 | 2M69W7D | 16QAM |
| LTE Band 25/2 | 24E | 1851.5 - 1913.5 | 0.121 | 20.81 | 2M70W7D | 64QAM |
| LTE Band 25/2 | 24E | 1852.5 - 1912.5 | 0.187 | 22.72 | 4M54G7D | QPSK |
| LTE Band 25/2 | 24E | 1852.5 - 1912.5 | 0.150 | 21.77 | 4M52W7D | 16QAM |
| LTE Band 25/2 | 24E | 1852.5 - 1912.5 | 0.121 | 20.84 | 4M54W7D | 64QAM |
| LTE Band 25/2 | 24E | 1855 - 1910 | 0.187 | 22.72 | 9M05G7D | QPSK |
| LTE Band 25/2 | 24E | 1855 - 1910 | 0.150 | 21.76 | 9M02W7D | 16QAM |
| LTE Band 25/2 | 24E | 1855 - 1910 | 0.121 | 20.83 | 9M04W7D | 64QAM |
| LTE Band 25/2 | 24E | 1857.5 - 1907.5 | 0.187 | 22.72 | 13M6G7D | QPSK |
| LTE Band 25/2 | 24E | 1857.5 - 1907.5 | 0.153 | 21.84 | 13M5W7D | 16QAM |
| LTE Band 25/2 | 24E | 1857.5 - 1907.5 | 0.122 | 20.85 | 13M5W7D | 64QAM |
| LTE Band 25/2 | 24E | 1860 - 1905 | 0.187 | 22.73 | 18M0G7D | QPSK |
| LTE Band 25/2 | 24E | 1860 - 1905 | 0.137 | 21.38 | 18M0W7D | 16QAM |
| LTE Band 25/2 | 24E | 1860 - 1905 | 0.112 | 20.51 | 18M0W7D | 64QAM |

EUT Overview (Mid Bands)

| FCC ID: ZNFK300TM | PCTEST* | MEASUREMENT REPORT (CERTIFICATION) | Approved by: Quality Manager |
|------------------------------|------------------|---------------------------------------|---------------------------------|
| Test Report S/N: Test Dates: | | EUT Type: | Dage 4 of 250 |
| 1M2002250026-02-R1.ZNF | 2/24 - 4/10/2020 | Portable Handset | Page 4 of 250 |
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| | | | EIRP | | | |
|-------------------|------------------|--------------------|-------------------|---------------------|------------------------|------------|
| Mode | FCC Rule Part | Tx Frequency (MHz) | Max. Power (W) | Max. Power (dBm) | Emission Designator | Modulation |
| LTE Band 41 (PC2) | 27 | 2498.5 - 2687.5 | 0.394 | 25.96 | 4M51G7D | QPSK |
| LTE Band 41 (PC2) | 27 | 2498.5 - 2687.5 | 0.325 | 25.12 | 4M52W7D | 16QAM |
| LTE Band 41 (PC2) | 27 | 2498.5 - 2687.5 | 0.252 | 24.02 | 4M53W7D | 64QAM |
| LTE Band 41 (PC2) | 27 | 2501 - 2685 | 0.404 | 26.06 | 9M05G7D | QPSK |
| LTE Band 41 (PC2) | 27 | 2501 - 2685 | 0.338 | 25.29 | 9M01W7D | 16QAM |
| LTE Band 41 (PC2) | 27 | 2501 - 2685 | 0.255 | 24.06 | 9M00W7D | 64QAM |
| LTE Band 41 (PC2) | 27 | 2503.5 - 2682.5 | 0.385 | 25.85 | 13M5G7D | QPSK |
| LTE Band 41 (PC2) | 27 | 2503.5 - 2682.5 | 0.322 | 25.08 | 13M5W7D | 16QAM |
| LTE Band 41 (PC2) | 27 | 2503.5 - 2682.5 | 0.243 | 23.85 | 13M5W7D | 64QAM |
| LTE Band 41 (PC2) | 27 | 2506 - 2680 | 0.406 | 26.08 | 18M0G7D | QPSK |
| LTE Band 41 (PC2) | 27 | 2506 - 2680 | 0.333 | 25.22 | 17M9W7D | 16QAM |
| LTE Band 41 (PC2) | 27 | 2506 - 2680 | 0.283 | 24.51 | 18M0W7D | 64QAM |
| LTE Band 41 (PC3) | 27 | 2498.5 - 2687.5 | 0.201 | 23.04 | 4M51G7D | QPSK |
| LTE Band 41 (PC3) | 27 | 2498.5 - 2687.5 | 0.162 | 22.09 | 4M52W7D | 16QAM |
| LTE Band 41 (PC3) | 27 | 2498.5 - 2687.5 | 0.121 | 20.83 | 4M51W7D | 64QAM |
| LTE Band 41 (PC3) | 27 | 2501 - 2685 | 0.200 | 23.00 | 9M02G7D | QPSK |
| LTE Band 41 (PC3) | 27 | 2501 - 2685 | 0.155 | 21.90 | 9M02W7D | 16QAM |
| LTE Band 41 (PC3) | 27 | 2501 - 2685 | 0.118 | 20.71 | 9M02W7D | 64QAM |
| LTE Band 41 (PC3) | 27 | 2503.5 - 2682.5 | 0.201 | 23.03 | 13M5G7D | QPSK |
| LTE Band 41 (PC3) | 27 | 2503.5 - 2682.5 | 0.158 | 21.98 | 13M5W7D | 16QAM |
| LTE Band 41 (PC3) | 27 | 2503.5 - 2682.5 | 0.118 | 20.71 | 13M5W7D | 64QAM |
| LTE Band 41 (PC3) | 27 | 2506 - 2680 | 0.207 | 23.16 | 18M0G7D | QPSK |
| LTE Band 41 (PC3) | 27 | 2506 - 2680 | 0.179 | 22.53 | 18M0W7D | 16QAM |
| LTE Band 41 (PC3) | 27 | 2506 - 2680 | 0.146 | 21.64 | 18M0W7D | 64QAM |

EUT Overview (High Bands)

| FCC ID: ZNFK300TM | Proud to be part of @ element | MEASUREMENT REPORT (CERTIFICATION) | Approved by: Quality Manager |
|------------------------|-------------------------------|---------------------------------------|---------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | Page 5 of 250 |
| 1M2002250026-02-R1.ZNF | 2/24 - 4/10/2020 | Portable Handset | Fage 5 of 250 |
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1.0 INTRODUCTION

1.1 Scope

Measurement and determination of electromagnetic emissions (EMC) of radio frequency devices including intentional and/or unintentional radiators for compliance with the technical rules and regulations of the Federal Communications Commission and the Innovation, Science and Economic Development Canada.

1.2 PCTEST Test Location

These measurement tests were conducted at the PCTEST facility located at 7185 Oakland Mills Road, Columbia, MD 21046. The measurement facility is compliant with the test site requirements specified in ANSI C63.4-2014.

1.3 Test Facility / Accreditations

Measurements were performed at PCTEST located in Columbia, MD 21046, U.S.A.

- PCTEST is an ISO 17025-2005 accredited test facility under the American Association for Laboratory Accreditation (A2LA) with Certificate number 2041.01 for Specific Absorption Rate (SAR), Hearing Aid Compatibility (HAC) testing, where applicable, and Electromagnetic Compatibility (EMC) testing for FCC and Innovation, Science, and Economic Development Canada rules.
- PCTEST TCB is a Telecommunication Certification Body (TCB) accredited to ISO/IEC 17065-2012 by A2LA (Certificate number 2041.03) in all scopes of FCC Rules and ISED Standards (RSS).
- PCTEST facility is a registered (2451B) test laboratory with the site description on file with ISED.

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|------------------------|-------------------------------|---------------------------------------|---------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | Page 6 of 250 |
| 1M2002250026-02-R1.ZNF | 2/24 - 4/10/2020 | Portable Handset | Page 6 of 250 |
| © 2020 PCTEST | | | V 9.0 02/01/2019 |



2.0 PRODUCT INFORMATION

2.1 Equipment Description

The Equipment Under Test (EUT) is the **LG Portable Handset FCC ID: ZNFK300TM**. The test data contained in this report pertains only to the emissions due to the EUT's LTE function.

Test Device Serial No.: 10169, 10177, 10276, 10284, 10292, 10300

2.2 Device Capabilities

This device contains the following capabilities:

850/1900 CDMA/EvDO Rev0/A (BC0, BC10), 850/1900 GSM/GPRS/EDGE, 850/1700/1900 WCDMA/HSPA, Multiband LTE, 802.11b/g/n WLAN,802.11a/n/ac UNII, Bluetooth (1x, EDR, LE).

LTE Band 26 (814.7 – 849 MHz) overlaps the entire frequency range of LTE Band 5 (824 – 849 MHz). Therefore, test data provided in this report covers Band 5 and the portion of Band 26 subject to Part 22.

LTE Band 66 (1710 - 1780 MHz) overlaps the entire frequency range of LTE Band 4 (1710 - 1755 MHz). Therefore, test data provided in this report covers Band 4 as well as Band 66.

LTE Band 25 (1850 - 1915 MHz) overlaps the entire frequency range of LTE Band 2 (1850 - 1910 MHz). Therefore, test data provided in this report covers Band 2 as well as Band 25.

2.3 Test Configuration

The EUT was tested per the guidance of ANSI/TIA-603-E-2016 and KDB 971168 D01 v03r01. See Section 7.0 of this test report for a description of the radiated and antenna port conducted emissions tests.

2.4 EMI Suppression Device(s)/Modifications

No EMI suppression device(s) were added and no modifications were made during testing.

| FCC ID: ZNFK300TM | PCTEST* | MEASUREMENT REPORT (CERTIFICATION) | .G | Approved by: Quality Manager |
|------------------------------|------------------|---------------------------------------|----|---------------------------------|
| Test Report S/N: Test Dates: | | EUT Type: | | Dage 7 of 250 |
| 1M2002250026-02-R1.ZNF | 2/24 - 4/10/2020 | Portable Handset | | Page 7 of 250 |
| © 2020 PCTEST | | | | V 9.0 02/01/2019 |



3.0 DESCRIPTION OF TESTS

3.1 Measurement Procedure

The measurement procedures described in the document titled "Land Mobile FM or PM – Communications Equipment – Measurements and Performance Standards" (ANSI/TIA-603-E-2016) and "Procedures for Compliance Measurement of the Fundamental Emission Power of Licensed Wideband (> 1 MHz) Digital Transmission Systems" (KDB 971168 D01 v03r01) were used in the measurement of the EUT.

3.2 Block C Frequency Range

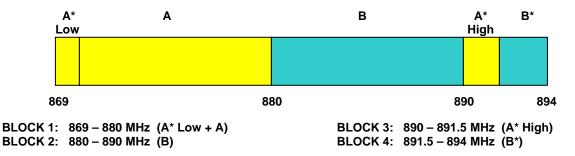
Two paired channels of 11 megahertz each are available for assignment in Block C in the 746-757 MHz and 776-787 MHz bands. In the event that no licenses for two channels in this Block C are assigned based on the results of the first auction in which such licenses were offered because the auction results do not satisfy the applicable reserve price, the spectrum in the 746-757 MHz and 776-787 MHz bands will instead be made available for assignment at a subsequent auction as follows: (i) Two paired channels of 6 megahertz each available for assignment in Block C1 in the 746-752 MHz and 776-782 MHz bands. (ii) Two paired channels of 5 megahertz each available for assignment in Block C2 in the 752-757 MHz and 782-787 MHz bands.

3.3 Block A Frequency Range

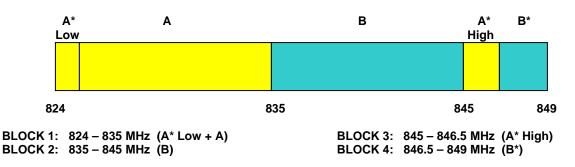
<u>698-746 MHz band</u>. The following frequencies are available for licensing pursuant to this part in the 698-746 MHz band: (1) Three paired channel blocks of 12 megahertz each are available for assignment as follows:

Block A: 698-704 MHz and 728-734 MHz; Block B: 704-710 MHz and 734-740 MHz; and Block C: 710-716 MHz and 740-746 MHz.

3.4 Cellular - Base Frequency Blocks



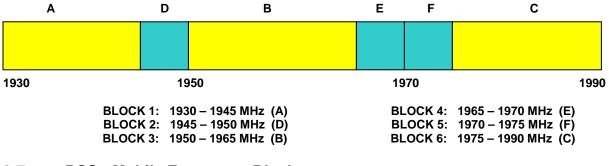
3.5 Cellular - Mobile Frequency Blocks



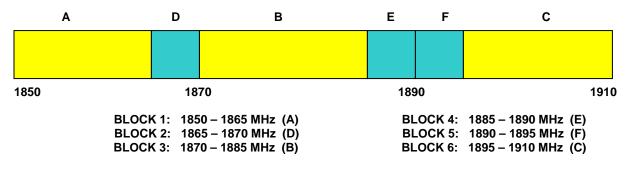
| FCC ID: ZNFK300TM | Proud to be part of @ element | MEASUREMENT REPORT (CERTIFICATION) | Approved by: Quality Manager |
|------------------------|-------------------------------|---------------------------------------|---------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | Daga 8 of 250 |
| 1M2002250026-02-R1.ZNF | 2/24 - 4/10/2020 | Portable Handset | Page 8 of 250 |
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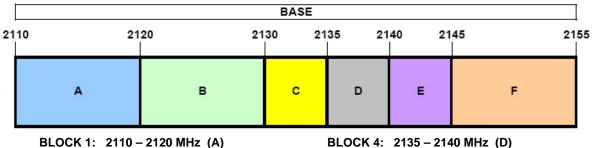
3.6 PCS - Base Frequency Blocks



3.7 PCS - Mobile Frequency Blocks

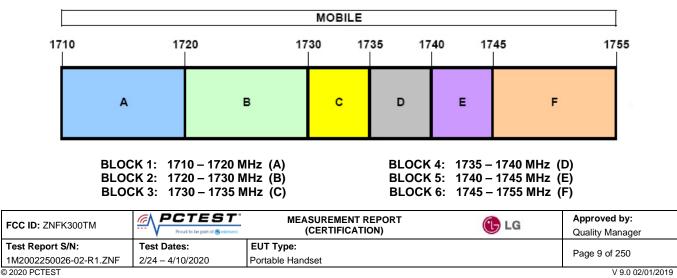


3.8 AWS - Base Frequency Blocks



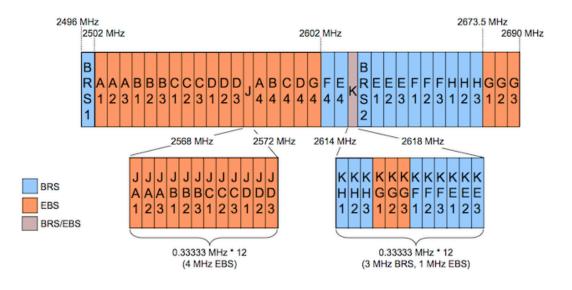
BLOCK 2: 2120 – 2130 MHz (R) BLOCK 2: 2120 – 2130 MHz (B) BLOCK 3: 2130 – 2135 MHz (C) BLOCK 4: 2135 – 2140 MHz (D) BLOCK 5: 2140 – 2145 MHz (E) BLOCK 6: 2145 – 2155 MHz (F)

3.9 AWS - Mobile Frequency Blocks





3.10 BRS/EBS Frequency Block



3.11 Radiated Power and Radiated Spurious Emissions

The radiated test facilities consisted of an indoor 3 meter semi-anechoic chamber used for final measurements and exploratory measurements, when necessary. The measurement area is contained within the semi-anechoic chamber which is shielded from any ambient interference. The test site inside the chamber is a 6m x 5.2m elliptical, obstruction-free area in accordance with Figure 5.7 of Clause 5 in ANSI C63.4-2014. Absorbers are arranged on the floor between the turn table and the antenna mast in such a way so as to maximize the reduction of reflections for measurements above 1GHz. For measurements below 1GHz, the absorbers are removed. A raised turntable is used for radiated measurement. The turn table is a continuously rotatable, remote-controlled, metallic turntable and 2 meters (6.56 ft.) in diameter. The turn table is flush with the raised floor of the chamber in order to maintain its function as a ground plane. An 80cm tall test table made of Styrodur is placed on top of the turn table. A Styrodur pedestal is placed on top of the test table to bring the total table height to 1.5m.

The equipment under test was transmitting while connected to its integral antenna and is placed on a turntable 3 meters from the receive antenna. The receive antenna height is adjusted between 1 and 4 meter height, the turntable is rotated through 360 degrees, and the EUT is manipulated through all orthogonal planes representative of its typical use to achieve the highest reading on the receive spectrum analyzer. Radiated power levels are also investigated with the receive antenna horizontally and vertically polarized. The maximized power level is recorded using the spectrum analyzer "Channel Power" function with the integration band set to the emissions' occupied bandwidth, a RMS detector, RBW = 100kHz, VBW = 300kHz, and a 1 second sweep time over a minimum of 10 sweeps, per the guidelines of KDB 971168 D01 v03r01.

Per the guidance of ANSI/TIA-603-E-2016, a half-wave dipole is then substituted in place of the EUT. For emissions above 1GHz, a horn antenna is substituted in place of the EUT. The substitute antenna is driven by a signal generator with the level of the signal generator being adjusted to obtain the same receive spectrum analyzer level previously recorded from the spurious emission from the EUT. The power of the emission is calculated using the following formula:

| FCC ID: ZNFK300TM | Proud to be part of @ element | MEASUREMENT REPORT (CERTIFICATION) | Approved by: Quality Manager |
|------------------------|-------------------------------|---------------------------------------|---------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | Dage 10 of 250 |
| 1M2002250026-02-R1.ZNF | 2/24 - 4/10/2020 | Portable Handset | Page 10 of 250 |
| © 2020 PCTEST | • | | V 9.0 02/01/2019 |



Where, P_d is the dipole equivalent power, P_g is the generator output into the substitution antenna, and the antenna gain is the gain of the substitute antenna used relative to either a half-wave dipole (dBd) or an isotropic source (dBi). The substitute level is equal to $P_{g [dBm]}$ – cable loss [dB].

The calculated P_d levels are then compared to the absolute spurious emission limit of -13dBm which is equivalent to the required minimum attenuation of 43 + 10 log₁₀(Power [Watts]). For Band 41, the calculated P_d levels are compared to the absolute spurious emission limit of -25dBm which is equivalent to the required minimum attenuation of 55 + 10 log₁₀(Power [Watts]).

All radiated measurements are performed in a chamber that meets the site requirements per ANSI C63.4-2014. Additionally, radiated emissions below 30MHz are also validated on an Open Area Test Site to assert correlation with the chamber measurements per the requirements of KDB 474788 D01.

| FCC ID: ZNFK300TM | PCTEST* | MEASUREMENT REPORT (CERTIFICATION) | LG | Approved by: Quality Manager |
|------------------------|------------------|---------------------------------------|----|---------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | | Dogo 11 of 250 |
| 1M2002250026-02-R1.ZNF | 2/24 - 4/10/2020 | Portable Handset | | Page 11 of 250 |
| © 2020 PCTEST | | | | V 9.0 02/01/2019 |



4.0 MEASUREMENT UNCERTAINTY

The measurement uncertainties shown below were calculated in accordance with the requirements of ANSI C63.4-2014. All measurement uncertainty values are shown with a coverage factor of k = 2 to indicate a 95% level of confidence. The measurement uncertainty shown below meets or exceeds the U_{CISPR} measurement uncertainty values specified in CISPR 16-4-2 and, thus, can be compared directly to specified limits to determine compliance.

| Contribution | Expanded Uncertainty (±dB) |
|-------------------------------------|----------------------------|
| Conducted Bench Top Measurements | 1.13 |
| Radiated Disturbance (<1GHz) | 4.98 |
| Radiated Disturbance (>1GHz) | 5.07 |
| Radiated Disturbance (>18GHz) | 5.09 |

| FCC ID: ZNFK300TM | PCTEST [®] | MEASUREMENT REPORT (CERTIFICATION) | Approved by: Quality Manager |
|------------------------|---------------------|---------------------------------------|---------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | Page 12 of 250 |
| 1M2002250026-02-R1.ZNF | 2/24 - 4/10/2020 | Portable Handset | Page 12 01 250 |
| © 2020 PCTEST | | | V 9.0 02/01/2019 |



5.0 TEST EQUIPMENT CALIBRATION DATA

Test Equipment Calibration is traceable to the National Institute of Standards and Technology (NIST). Measurements antennas used during testing were calibrated in accordance to the requirements of ANSI C63.5-2017.

| Manufacturer | Model | Description | Cal Date | Cal Interval | Cal Due | Serial Number |
|-----------------|--------------|--------------------------------|------------|--------------|------------|---------------|
| - | LTx1 | Licensed Transmitter Cable Set | 6/4/2019 | Annual | 6/4/2020 | LTx1 |
| - | LTx2 | Licensed Transmitter Cable Set | 10/30/2019 | Annual | 10/30/2020 | LTx2 |
| Agilent | N9020A | MXA Signal Analyzer | 4/20/2019 | Annual | 4/20/2020 | US46470561 |
| Agilent | N9038A | MXE EMI Receiver | 7/17/2019 | Annual | 7/17/2020 | MY51210133 |
| Agilent | N9030A | PXA Signal Analyzer (44GHz) | 6/12/2019 | Annual | 6/12/2020 | MY52350166 |
| Com-Power | AL-130 | 9kHz - 30MHz Loop Antenna | 10/10/2019 | Biennial | 10/10/2021 | 121034 |
| Com-Power | PAM-103 | Pre-Amplifier (1-1000MHz) | 5/10/2019 | Annual | 5/10/2020 | 441112 |
| Espec | ESX-2CA | Environmental Chamber | 6/13/2019 | Annual | 6/13/2020 | 17620 |
| ETS Lindgren | 3164-08 | Quad Ridge Horn Antenna | 3/28/2018 | Biennial | 3/28/2020 | 128337 |
| Mini Circuits | TVA-11-422 | RF Power Amp | | N/A | | QA1317001 |
| Mini Circuits | PWR-SEN-4GHS | USB Power Sensor | 4/19/2019 | Annual | 4/19/2020 | 11401010036 |
| Mini-Circuits | SSG-4000HP | Synthesized Signal Generator | | N/A | | 11208010032 |
| Rohde & Schwarz | CMW500 | Radio Communication Tester | | N/A | | 100976 |
| Rohde & Schwarz | ESU26 | EMI Test Receiver (26.5GHz) | 6/5/2019 | Annual | 6/5/2020 | 100342 |
| Rohde & Schwarz | ESU40 | EMI Test Receiver (40GHz) | 9/23/2019 | Annual | 9/23/2020 | 100348 |
| Rohde & Schwarz | SFUNIT-Rx | Shielded Filter Unit | 7/11/2019 | Annual | 7/11/2020 | 102134 |
| Rohde & Schwarz | SFUNIT-Rx | Shielded Filter Unit | 7/8/2019 | Annual | 7/8/2020 | 102133 |
| Sunol | DRH-118 | Horn Antenna (1-18GHz) | 10/3/2019 | Biennial | 10/3/2021 | A050307 |

Table 5-1. Test Equipment

Notes:

Equipment with a calibration date of "N/A" shown in this list was not used to make direct calibrated measurements.

| FCC ID: ZNFK300TM | Proud to be part of @ element | MEASUREMENT REPORT (CERTIFICATION) | Approved by: Quality Manager |
|------------------------|-------------------------------|---------------------------------------|---------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | Daga 12 of 250 |
| 1M2002250026-02-R1.ZNF | 2/24 - 4/10/2020 | Portable Handset | Page 13 of 250 |
| © 2020 PCTEST | | | V 9.0 02/01/2019 |



6.0 SAMPLE CALCULATIONS

Emission Designator

QPSK Modulation

Emission Designator = 8M62G7D

LTE BW = 8.62 MHz

G = Phase Modulation

7 = Quantized/Digital Info

D = Data transmission, telemetry, telecommand

QAM Modulation

Emission Designator = 8M45W7D

LTE BW = 8.45 MHz W = Amplitude/Angle Modulated 7 = Quantized/Digital Info D = Data transmission, telemetry, telecommand

Spurious Radiated Emission – LTE Band

Example: Middle Channel LTE Mode 2nd Harmonic (1564 MHz)

The average spectrum analyzer reading at 3 meters with the EUT on the turntable was -81.0 dBm. The gain of the substituted antenna is 8.1 dBi. The signal generator connected to the substituted antenna terminals is adjusted to produce a reading of -81.0 dBm on the spectrum analyzer. The loss of the cable between the signal generator and the terminals of the substituted antenna is 2.0 dB at 1564 MHz. So 6.1 dB is added to the signal generator reading of -30.9 dBm yielding -24.80 dBm. The fundamental EIRP was 25.501 dBm so this harmonic was 25.501 dBm - (-24.80).

| FCC ID: ZNFK300TM | PCTEST* | MEASUREMENT REPORT (CERTIFICATION) | 🔁 LG | Approved by: Quality Manager |
|------------------------|------------------|---------------------------------------|------|---------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | | Dage 14 of 250 |
| 1M2002250026-02-R1.ZNF | 2/24 - 4/10/2020 | Portable Handset | | Page 14 of 250 |
| © 2020 PCTEST | | | | V 9.0 02/01/2019 |



7.0 TEST RESULTS

7.1 Summary

| Company Name: | LG Electronics USA, Inc. |
|---------------------|--|
| FCC ID: | ZNFK300TM |
| FCC Classification: | PCS Licensed Transmitter Held to Ear (PCE) |
| Mode(s): | <u>LTE</u> |

| FCC Part Section(s) | Test Description | Test Limit | Test Condition | Test Result | Reference |
|--|---------------------------------------|--|-------------------|----------------|------------------------------|
| 2.1049 | Occupied Bandwidth | N/A | | | Section 7.2 |
| 2.1051 22.917(a) 24.238(a) 27.53(c) 27.53(g) 27.53(h) | Out of Band Emissions | > 43 + 10 log ₁₀ (P[Watts]) at Band Edge and for all out-of- band emissions | | PASS | Section 7.3, 7.4 |
| 27.53(m) | Out of Band Emissions | Undesirable emissions must meet the limits detailed in 27.53(m) | | | Section 7.3, 7.4 |
| 24.232(d) 27.50 | Peak-Average Ratio | < 13 dB | CONDUCTED | | Section 7.5 |
| 2.1046 | Transmitter Conducted Output Power | N/A | | | See RF Exposure Report |
| 27.53(m) | Uplink Carrier Aggregation | >43 + 10log(P[Watts]) at Band Edge and for all out-of-band emissions | | | Section 7.6 |
| 2.1055 22.355 24.235 27.54 | Frequency Stability | < 2.5 ppm (Part 22) and fundamental emissions stay within authorized frequency block (Part 24,27) | | | Section 7.10 |

Table 7-1. Summary of Conducted Test Results

| FCC ID: ZNFK300TM | PCTEST [®] Proud to be part of @ element | MEASUREMENT REPORT (CERTIFICATION) | 🕕 LG | Approved by: Quality Manager | |
|------------------------|--|---------------------------------------|------|---------------------------------|--|
| Test Report S/N: | Test Dates: | EUT Type: | | Dogo 15 of 250 | |
| 1M2002250026-02-R1.ZNF | 2/24 - 4/10/2020 | Portable Handset | | Page 15 of 250 | |
| © 2020 PCTEST | • | | | V 9.0 02/01/2019 | |



| FCC Part Section(s) | Test Description | Test Limit | Test Condition | Test Result | Reference |
|--|--|---|-------------------|----------------|-------------|
| 22.913(a)(5) | Effective Radiated Power / Equivalent Isotropic Radiated Power (Band 5/26) | < 7 Watts max. ERP | | | Section 7.6 |
| 27.50(b)(10) 27.50(c)(10) | Effective Radiated Power / Equivalent Isotropic Radiated Power (Band 71, 12, 13) | < 3 Watts max. ERP | | | Section 7.6 |
| 24.232(c) 27.50(h)(2) | Equivalent Isotropic Radiated Power (Band 2/25, 71, 41) | < 2 Watts max. EIRP | | | Section 7.6 |
| 27.50(d)(4) | Equivalent Isotropic Radiated Power (Band 4/66) | < 1 Watts max. EIRP | | PASS | Section 7.6 |
| 2.1053 22.917(a) 24.238(a) 27.53(c) 27.53(g) 27.53(h) | Undesirable Emissions (Band 12, 13, 26/5 ,66/4 , 25/2) | > 43 + 10 log ₁₀ (P[Watts]) for all out-of-band emissions | RADIATED | | Section 7.8 |
| 27.53(f) | Undesirable Emissions (Band 13) | < -70 dBW/MHz (for wideband signals) < -80 dBW (for discrete emissions less than 700Hz BW) For all emissions in the band 1559 – 1610 MHz | | | Section 7.8 |
| 27.53(m) | Undesirable Emissions (Band 71) | Undesirable emissions must meet the limits detailed in 27.53(m) | | | Section 7.8 |
| 27.53(m) | Uplink Carrier Aggregation | Undesirable emissions must meet the limits detailed in 27.53(m) | | | Section 7.8 |

Table 7-2. Summary of Radiated Test Results

Notes:

- 1) All modes of operation and data rates were investigated. The test results shown in the following sections represent the worst case emissions.
- 2) The analyzer plots (Sections 7.2, 7.3, 7.4, 7.5) were all taken with a correction table loaded into the analyzer. The correction table was used to account for the losses of the cables, directional couplers, and attenuators used as part of the system to maintain a link between the call box and the EUT at all frequencies of interest.
- 3) All antenna port conducted emissions testing was performed on a test bench with the antenna port of the EUT connected to the spectrum analyzer through calibrated cables, attenuators, and couplers.
- 4) For conducted spurious emissions, automated test software was used to measure emissions and capture the corresponding plots necessary to show compliance. The measurement software utilized is PCTEST "LTE Automation," Version 5.3.

| FCC ID: ZNFK300TM | PCTEST* | MEASUREMENT REPORT (CERTIFICATION) | Approved by: Quality Manager | | |
|--------------------------------|------------------|---------------------------------------|---------------------------------|--|--|
| Test Report S/N: Test Dates: | | EUT Type: | Dage 16 of 250 | | |
| 1M2002250026-02-R1.ZNF | 2/24 - 4/10/2020 | Portable Handset | Page 16 of 250 | | |
| © 2020 PCTEST V 9.0 02/01/2019 | | | | | |



7.2 Occupied Bandwidth

Test Overview

The occupied bandwidth, that is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers radiated are each equal to 0.5 percent of the total mean power radiated by a given emission shall be measured. All modes of operation were investigated and the worst case configuration results are reported in this section.

Test Procedure Used

KDB 971168 D01 v03r01 - Section 4.2

Test Settings

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

Test Setup

The EUT and measurement equipment were set up as shown in the diagram below.



Figure 7-1. Test Instrument & Measurement Setup

Test Notes

None.

| FCC ID: ZNFK300TM | PCTEST* | MEASUREMENT REPORT (CERTIFICATION) | Approved by: Quality Manager | | |
|--------------------------------|------------------|---------------------------------------|---------------------------------|--|--|
| Test Report S/N: Test Dates: | | EUT Type: | Dage 17 of 250 | | |
| 1M2002250026-02-R1.ZNF | 2/24 - 4/10/2020 | Portable Handset | Page 17 of 250 | | |
| © 2020 PCTEST V 9.0 02/01/2019 | | | | | |



Band 71



Plot 7-1. Occupied Bandwidth Plot (Band 71 - 5.0MHz QPSK - Full RB Configuration)



Plot 7-2. Occupied Bandwidth Plot (Band 71 - 5.0MHz 16-QAM - Full RB Configuration)

| FCC ID: ZNFK300TM | PCTEST* | MEASUREMENT REPORT (CERTIFICATION) | 🕒 LG | Approved by: Quality Manager | |
|------------------------------|------------------|---------------------------------------|------|---------------------------------|--|
| Test Report S/N: Test Dates: | | EUT Type: | | Dage 19 of 250 | |
| 1M2002250026-02-R1.ZNF | 2/24 - 4/10/2020 | 20 Portable Handset | | Page 18 of 250 | |
| © 2020 PCTEST | | | | V 9.0 02/01/2019 | |



| Keysight Spectrum Analyzer - Occupied BW | | | | | |
|--|------------|--|--|-------------------------------------|-------------------|
| LXU RL RF 50Ω DC | | SENSE:INT nter Freq: 680.500000 MI g: Free Run Avg | | 5:10 PM Feb 25, 2020 5 Std: None | Trace/Detector |
| | | tten: 36 dB | | Device: BTS | |
| 10 dB/div Ref 40.00 dBm | | | | | |
| 30.0 20.0 | | an Marine Marine C | | | Clear Write |
| 10.0 | | | | | |
| -10.0 -20.0 -30.0 | | | - A. | ᠕ᠰᠰᠰ᠋ᠵ᠘ | Average |
| -30.0 | | | | | Max Hold |
| Center 680.500 MHz Res BW 120 kHz | | #VBW 390 kHz | | an 12.50 MHz Sweep 1 ms | Min Hold |
| Occupied Bandwidth | | Total Power | r 30.9 dBn | n | |
| 4.5 | 495 MHz | | | | Detector Peak▶ |
| Transmit Freq Error | -4.920 kHz | % of OBW F | ower 99.00 % | 6 | Auto <u>Man</u> |
| x dB Bandwidth | 5.199 MHz | x dB | -26.00 di | 3 | |
| MSG | | | STATUS | | |

Plot 7-3. Occupied Bandwidth Plot (Band 71 - 5.0MHz 64-QAM - Full RB Configuration)



Plot 7-4. Occupied Bandwidth Plot (Band 71 - 10.0MHz QPSK - Full RB Configuration)

| FCC ID: ZNFK300TM | PCTEST* | MEASUREMENT REPORT (CERTIFICATION) | 🕒 LG | Approved by: Quality Manager |
|------------------------|------------------|---------------------------------------|------|---------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | | Dage 10 of 250 |
| 1M2002250026-02-R1.ZNF | 2/24 - 4/10/2020 | Portable Handset | | Page 19 of 250 |
| © 2020 PCTEST | | | | V 9.0 02/01/2019 |



| Keysight Spectrum Analyzer - Occupied B | W | | | | |
|---|---|---|-------------------------|------------------------|--------------------------|
| UX RL RF 50 Ω DC | Center Trig: F | SENSE:INT r Freq: 680.500000 MHz Free Run Avg Hold: n: 36 dB | Radio Std: | | Trace/Detector |
| 10 dB/div Ref 40.00 dBr | m | | | | |
| 30.0 20.0 | jon warmen a worker of | ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ | | | Clear Write |
| 10.0 0.00 -10.0 -20.0 | And a second | | humbergen man | all free on the second | Average |
| -40.0 | | | | | Max Hold |
| Center 680.50 MHz Res BW 240 kHz | | VBW 750 kHz | Swe | 5.00 MHz ep 1 ms | Min Hold |
| | Occupied Bandwidth Total Power 31.7 dBm 9.0155 MHz | | | | |
| Transmit Freq Error x dB Bandwidth | 9.226 kHz 10.02 MHz | % of OBW Powe x dB | ₽r 99.00 % -26.00 dB | | Peak≯ Auto <u>Man</u> |
| MSG | | | STATUS | | |

Plot 7-5. Occupied Bandwidth Plot (Band 71 - 10.0MHz 16-QAM - Full RB Configuration)



Plot 7-6. Occupied Bandwidth Plot (Band 71 - 10.0MHz 64-QAM - Full RB Configuration)

| FCC ID: ZNFK300TM | PCTEST* | MEASUREMENT REPORT (CERTIFICATION) | Approved by: Quality Manager |
|------------------------|------------------|---------------------------------------|---------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | Page 20 of 250 |
| 1M2002250026-02-R1.ZNF | 2/24 - 4/10/2020 | Portable Handset | Fage 20 01 250 |
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| Keysight Spectrum Analyzer - Occupied BW | | | | | | | | |
|--|------------------|---|-------------|----------------|--------------------------|-----------------------|-------|------------|
| LXU RE 50Ω DC | CORREC | SENSE:INT enter Freg: 680.500 | | | 08:54:03 PN adio Std: | 1Feb 25, 2020 | Trace | /Detector |
| | Tr | ig: Free Run | Avg Hold: | 100/100 | | | | |
| | #IFGain:Low #A | Atten: 36 dB | | к | adio Devi | ce: BTS | | |
| | | | | | | | | |
| 10 dB/div Ref 40.00 dBm | | | | | | | | |
| 30.0 | | | | | | | | |
| 20.0 | Alter Denselberg | an a long the second | de se entre | | | | C | lear Write |
| 10.0 | | | | | | | | |
| 0.00 | / | | \ | | | | | |
| -10.0 | / | | | | | | | Average |
| -20.0 | | | | When my marine | me marily | barler/Milliographics | | |
| -30.0 | | | | | | | | |
| -40.0 | | | | | | | | Max Hold |
| -50.0 | | | | | | | | wax noiu |
| | | | | | | | | |
| Center 680.50 MHz Res BW 360 kHz | | #VBW 1.1 № | 1.J | | | 7.50 MHz | | |
| Res BW 300 KH2 | | #VOVV 1.1 IV | INZ | | Swe | ep 1 ms | | Min Hold |
| Occupied Bandwidth | | Total P | ower | 32.6 d | Bm | | | |
| | 519 MHz | | | | | | | Detector |
| | | | | | | | | Peak► |
| Transmit Freq Error | 27.829 kHz | % of O | BW Powe | r 99.0 | 0 % | | Auto | <u>Man</u> |
| x dB Bandwidth | 15.20 MHz | x dB | | -26.00 | dB | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| MSG | | | | STATUS | | | | |

Plot 7-7. Occupied Bandwidth Plot (Band 71 - 15.0MHz QPSK - Full RB Configuration)



Plot 7-8. Occupied Bandwidth Plot (Band 71 - 15.0MHz 16-QAM - Full RB Configuration)

| FCC ID: ZNFK300TM | Pctest* Proud to be part of @ element | MEASUREMENT REPORT (CERTIFICATION) | Approved by: Quality Manager | |
|------------------------|--|---------------------------------------|---------------------------------|--|
| Test Report S/N: | Test Dates: | EUT Type: | Dogo 21 of 250 | |
| 1M2002250026-02-R1.ZNF | 2/24 - 4/10/2020 | Portable Handset | Page 21 of 250 | |
| © 2020 PCTEST | | | V 9.0 02/01/2019 | |



| Keysight Spectrum Analyzer - Occupied B | W | | | | | |
|---|------------|---|--|---|---------|-------------------|
| [X] RL RF 50 Ω DC | | SENSE:INT Center Freq: 680.50000 Trig: Free Run Atten: 36 dB | ALIGN AUTO 0 MHz Avg Hold:>100/100 | 08:54:30 PM Fe Radio Std: No Radio Device | one | Trace/Detector |
| 10 dB/div Ref 40.00 dB | m | | | | | |
| 20.0 | | | | | | Clear Write |
| 0.00 | | | | | | |
| -10.0 -20.0 | | | | | m.MM.Au | Average |
| -30.0 | | | | | | Max Hold |
| Center 680.50 MHz | | | | Span 37. | | |
| Res BW 360 kHz Occupied Bandwid | th | #VBW 1.1 MH | | Sweep / dBm | o 1 ms | Min Hold |
| | 13.541 MHz | | | | | Detector Peak► |
| Transmit Freq Error | 9.803 kHz | | | 0.00 % | A | uto <u>Man</u> |
| x dB Bandwidth | 17.24 MH | z x dB | -26. | 00 dB | | |
| MSG | | | STATU | 5 | | |

Plot 7-9. Occupied Bandwidth Plot (Band 71 - 15.0MHz 64-QAM - Full RB Configuration)



Plot 7-10. Occupied Bandwidth Plot (Band 71 - 20.0MHz QPSK - Full RB Configuration)

| FCC ID: ZNFK300TM | Proud to be part of @ element | MEASUREMENT REPORT (CERTIFICATION) | Approved by: Quality Manager | |
|------------------------------|-------------------------------|---------------------------------------|---------------------------------|--|
| Test Report S/N: Test Dates: | | EUT Type: | Dogo 22 of 250 | |
| 1M2002250026-02-R1.ZNF | 2/24 - 4/10/2020 | Portable Handset | Page 22 of 250 | |
| © 2020 PCTEST | | | V 9.0 02/01/2019 | |



| Keysight Spectrum Analyzer - Occupied B\ | V | | | | |
|--|-------------------|------------------------|---------------------------------|-----------------------|-------------------|
| XX RL RF 50Ω DC | Trig | | Radio Sto Id:>100/100 | | Trace/Detector |
| | #IFGain:Low #Atte | en: 36 dB | Radio De | vice: BTS | |
| 10 dB/div Ref 35.00 dBr | n | | | | |
| 25.0 | | waysonantical distance | | | Clear Write |
| -5.00 | | | | | |
| -15.0 -25.0 | | | Jacker Mr. Aplantication of the | Mur Mun Ma | Average |
| -35.0 | | | | | Max Hold |
| -55.0 | | | | | |
| Center 680.50 MHz Res BW 470 kHz | | #VBW 1.5 MHz | | 50.00 MHz eep 1 ms | Min Hold |
| Occupied Bandwidt | th | Total Power | 31.4 dBm | | |
| | 3.050 MHz | | | | Detector Peak▶ |
| Transmit Freq Error | 14.584 kHz | % of OBW Pov | ver 99.00 % | | Auto <u>Man</u> |
| x dB Bandwidth | 19.75 MHz | x dB | -26.00 dB | | |
| MSG | | | STATUS | | |

Plot 7-11. Occupied Bandwidth Plot (Band 71 - 20.0MHz 16-QAM - Full RB Configuration)



Plot 7-12. Occupied Bandwidth Plot (Band 71 - 20.0MHz 64-QAM - Full RB Configuration)

| FCC ID: ZNFK300TM | PCTEST [®] Proud to be part of @ element | MEASUREMENT REPORT (CERTIFICATION) | LG | Approved by: Quality Manager |
|------------------------|--|---------------------------------------|----|---------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | | Dage 22 of 250 |
| 1M2002250026-02-R1.ZNF | 2/24 - 4/10/2020 | Portable Handset | | Page 23 of 250 |
| © 2020 PCTEST | • | | | V 9.0 02/01/2019 |



Band 12



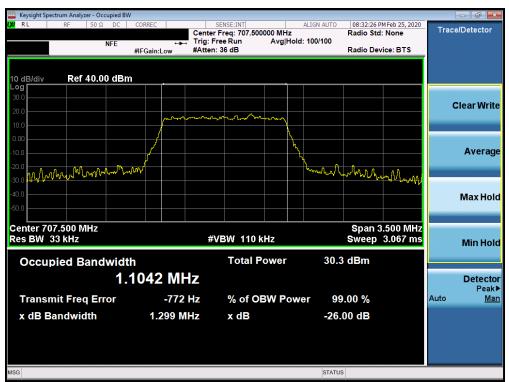
Plot 7-13. Occupied Bandwidth Plot (Band 12 - 1.4MHz QPSK - Full RB Configuration)



Plot 7-14. Occupied Bandwidth Plot (Band 12 - 1.4MHz 16-QAM - Full RB Configuration)

| FCC ID: ZNFK300TM | PCTEST* | MEASUREMENT REPORT (CERTIFICATION) | 🕕 LG | Approved by: Quality Manager | |
|---|-------------|---------------------------------------|------|---------------------------------|--|
| Test Report S/N: | Test Dates: | EUT Type: | | Dage 24 of 250 | |
| 1M2002250026-02-R1.ZNF 2/24 - 4/10/2020 | | Portable Handset | | Page 24 of 250 | |
| © 2020 PCTEST | | | | V 9 0 02/01/2019 | |





Plot 7-15. Occupied Bandwidth Plot (Band 12 - 1.4MHz 64-QAM - Full RB Configuration)



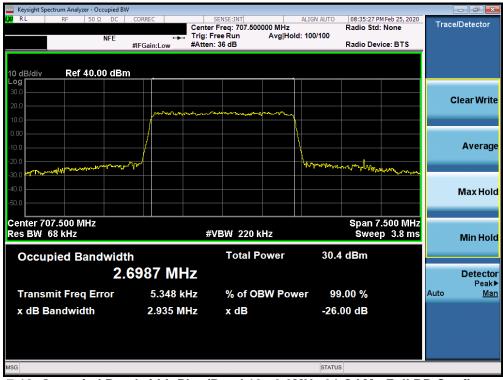
Plot 7-16. Occupied Bandwidth Plot (Band 12 - 3.0MHz QPSK - Full RB Configuration)

| FCC ID: ZNFK300TM | PCTEST* | MEASUREMENT REPORT (CERTIFICATION) | Approved by: Quality Manager |
|------------------------|------------------|---------------------------------------|---------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | Page 25 of 250 |
| 1M2002250026-02-R1.ZNF | 2/24 - 4/10/2020 | Portable Handset | Page 25 01 250 |
| © 2020 PCTEST | | | V 9.0 02/01/2019 |



| Keysight Spectrum Analyzer - Occupied BW | | | | | | | |
|--|----------------|-------------------------------------|---------------|----------------------|----------------|--------|------------|
| LX/ RL RF 50 Ω DC CO | RREC | SENSE:INT er Freg: 707.500000 MH | ALIGN AUTO | 08:35:16 P | M Feb 25, 2020 | Tracel | Detector |
| NFE | Trig: | Free Run Avg | lold: 100/100 | | | | |
| #IF | Gain:Low #Atte | en: 36 dB | | Radio Dev | ice: BTS | | |
| | | | | | | | |
| 10 dB/div Ref 40.00 dBm | | | | | | | |
| Log 30.0 | | | | | | | |
| 20.0 | | | | | | CI | ear Write |
| 10.0 | mannon | man from and more and the | 2 | | | | |
| 0.00 | | | | | | | |
| | 1 | | | | | | Average |
| -10.0 | | | howhere | | | | Average |
| -20.0 mound month of and the second | | | | and Colonical States | Murin march | | |
| -30.0 | | | | | | | |
| -40.0 | | | | | | 1 | Max Hold |
| -50.0 | | | | | | | |
| Center 707.500 MHz | | | | Snan 7 | .500 MHz | | |
| Res BW 68 kHz | \$ | #VBW 220 kHz | | | p 3.8 ms | | Min Hold |
| | | | | | | | MITTIOIG |
| Occupied Bandwidth | | Total Power | 31. | 3 dBm | | | |
| 2.68 | 91 MHz | | | | | | Detector |
| | | | | | | | Peak▶ |
| Transmit Freq Error | 502 Hz | % of OBW Po | ower 99 | 9.00 % | | Auto | <u>Man</u> |
| x dB Bandwidth | 2.933 MHz | x dB | -26 | .00 dB | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| MSG | | | STATU | s | | | |

Plot 7-17. Occupied Bandwidth Plot (Band 12 - 3.0MHz 16-QAM - Full RB Configuration)



Plot 7-18. Occupied Bandwidth Plot (Band 12 - 3.0MHz 64-QAM - Full RB Configuration)

| FCC ID: ZNFK300TM | Pctest* Proud to be part of @ element | MEASUREMENT REPORT (CERTIFICATION) | Approved by: Quality Manager |
|------------------------|--|---------------------------------------|---------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | Dage 26 of 250 |
| 1M2002250026-02-R1.ZNF | 2/24 - 4/10/2020 | Portable Handset | Page 26 of 250 |
| © 2020 PCTEST | | | V 9.0 02/01/2019 |



| 🔤 Keysight Spectrum Analyzer - Occupie | ed BW | | | | |
|--|----------------|--------------|---------------------------|-----------------------|-------------------|
| LX RL RF 50Ω D | C | | Radio Sto old: 100/100 | | Trace/Detector |
| | #IFGain:Low #/ | Atten: 36 dB | Radio De | vice: BTS | |
| 10 dB/div Ref 30.00 d | IBm | | | | |
| 20.0 | mm | manna | 1 | | Clear Write |
| 0.00 | | | | | |
| -10.0 -20.0 | | | | harm | Average |
| -30.0 | | | | | |
| -50.0 | | | | | Max Hold |
| Center 707.500 MHz Res BW 120 kHz | | #VBW 390 kHz | | 12.50 MHz eep 1 ms | Min Hold |
| Occupied Bandwi | | Total Power | 32.9 dBm | | |
| | 4.5546 MHz | | | | Detector Peak▶ |
| Transmit Freq Error | 5.774 kHz | % of OBW Po | wer 99.00 % | | Auto <u>Man</u> |
| x dB Bandwidth | 5.224 MHz | x dB | -26.00 dB | | |
| MSG | | | STATUS | | |

Plot 7-19. Occupied Bandwidth Plot (Band 12 - 5.0MHz QPSK - Full RB Configuration)



Plot 7-20. Occupied Bandwidth Plot (Band 12 - 5.0MHz 16-QAM - Full RB Configuration)

| FCC ID: ZNFK300TM | Pctest* Proud to be part of @ element | MEASUREMENT REPORT (CERTIFICATION) | Approved by: Quality Manager |
|------------------------|--|---------------------------------------|---------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | Dage 27 of 250 |
| 1M2002250026-02-R1.ZNF | 2/24 - 4/10/2020 | Portable Handset | Page 27 of 250 |
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Plot 7-21. Occupied Bandwidth Plot (Band 12 - 5.0MHz 64-QAM - Full RB Configuration)



Plot 7-22. Occupied Bandwidth Plot (Band 12 - 10.0MHz QPSK - Full RB Configuration)

| FCC ID: ZNFK300TM | Proud to be part of (a) element | MEASUREMENT REPORT (CERTIFICATION) | Approved by: Quality Manager |
|------------------------|---------------------------------|---------------------------------------|---------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | Dogo 28 of 250 |
| 1M2002250026-02-R1.ZNF | 2/24 - 4/10/2020 | Portable Handset | Page 28 of 250 |
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| Keysight Spectrum Analyzer - Occupied B | W | | | | - ē 🔀 |
|---|----------------------------|------------------------|-------------------------|---------------------|-------------------|
| IX RL RF 50Ω DC | Center Trig: F | r Freq: 707.500000 MHz | Radio Std: | | Trace/Detector |
| 10 dB/div Ref 40.00 dB | m | | | | |
| 20.0 | | annonally | | | Clear Write |
| 10.0 0.00 -10.0 -20.0 | n n | | 1 MMV&MMJUS | Y MAY MAY | Average |
| -40.0 -50.0 | | | | | Max Hold |
| Center 707.50 MHz Res BW 240 kHz | # | VBW 750 kHz | | 5.00 MHz ep 1 ms | Min Hold |
| Occupied Bandwid | th .0155 MHz | Total Power | 31.8 dBm | | Detector Peak▶ |
| Transmit Freq Error x dB Bandwidth | 11.208 kHz 9.997 MHz | % of OBW Powe x dB | er 99.00 % -26.00 dB | | Auto <u>Man</u> |
| | | | OT AT NO | | |
| MSG | | | STATUS | | |

Plot 7-23. Occupied Bandwidth Plot (Band 12 - 10.0MHz 16-QAM - Full RB Configuration)



Plot 7-24. Occupied Bandwidth Plot (Band 12 - 10.0MHz 64-QAM - Full RB Configuration)

| FCC ID: ZNFK300TM | PCTEST* | MEASUREMENT REPORT (CERTIFICATION) | 💽 LG | Approved by: Quality Manager |
|------------------------|------------------|---------------------------------------|------|---------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | | Page 29 of 250 |
| 1M2002250026-02-R1.ZNF | 2/24 - 4/10/2020 | Portable Handset | | |
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Band 13



Plot 7-25. Occupied Bandwidth Plot (Band 13 - 5.0MHz QPSK - Full RB Configuration)



Plot 7-26. Occupied Bandwidth Plot (Band 13 - 5.0MHz 16-QAM - Full RB Configuration)

| FCC ID: ZNFK300TM | PCTEST* | MEASUREMENT REPORT (CERTIFICATION) | 🕕 LG | Approved by: Quality Manager | |
|---|-------------|---------------------------------------|------|---------------------------------|--|
| Test Report S/N: | Test Dates: | EUT Type: | | Dage 20 of 250 | |
| 1M2002250026-02-R1.ZNF 2/24 - 4/10/2020 | | Portable Handset | | Page 30 of 250 | |
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| Keysight Spectrum Analyzer - Occupied BW | | | | | | | |
|--|-----------|---|------------|--------------------------|-----------------------|-------|-------------------|
| LXU RL RF 50Ω DC | | SENSE:INT er Freq: 782.000000 MH Free Run Avg | ALIGN AUTO | 09:03:41 P Radio Std: | MFeb 25, 2020 None | Trace | Detector |
| | | en: 36 dB | | Radio Dev | ice: BTS | | |
| | | | | | | | |
| Log 30.0 20.0 | | | | | | с | lear Write |
| 10.0 | mon | will have marked and the second | ~ | | | | |
| -10.0 | | | | | | | Average |
| -20.0 -30.0 -40.0 -50.0 | | | | | ᢝᡣᡅᠬᠬᡁᠬᢢ | | Max Hold |
| Center 782.000 MHz Res BW 120 kHz | | ¢VB₩ 390 kHz | | | 2.50 MHz ep 1 ms | | Min Hold |
| Occupied Bandwidt | า | Total Power | 30. | 7 dBm | | | |
| | 5185 MHz | | | | | | Detector Peak▶ |
| Transmit Freq Error | 4.625 kHz | % of OBW P | ower 99 | 9.00 % | | Auto | <u>Man</u> |
| x dB Bandwidth | 4.944 MHz | x dB | -26 | .00 dB | | | |
| MSG | | | STATU | s | | | |

Plot 7-27. Occupied Bandwidth Plot (Band 13 - 5.0MHz 64-QAM - Full RB Configuration)



Plot 7-28. Occupied Bandwidth Plot (Band 13 - 10.0MHz QPSK - Full RB Configuration)

| FCC ID: ZNFK300TM | Proud to be part of (a) element | MEASUREMENT REPORT (CERTIFICATION) | Approved by: Quality Manager |
|------------------------|---------------------------------|---------------------------------------|---------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | Dogo 21 of 250 |
| 1M2002250026-02-R1.ZNF | 2/24 - 4/10/2020 | Portable Handset | Page 31 of 250 |
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Plot 7-29. Occupied Bandwidth Plot (Band 13 - 10.0MHz 16-QAM - Full RB Configuration)



Plot 7-30. Occupied Bandwidth Plot (Band 13 - 10.0MHz 64-QAM - Full RB Configuration)

| FCC ID: ZNFK300TM | PCTEST* | MEASUREMENT REPORT (CERTIFICATION) | 🕕 LG | Approved by: Quality Manager | |
|------------------------|------------------|---------------------------------------|------|---------------------------------|--|
| Test Report S/N: | Test Dates: | EUT Type: | | Dage 22 of 250 | |
| 1M2002250026-02-R1.ZNF | 2/24 - 4/10/2020 | Portable Handset | | Page 32 of 250 | |
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Band 26/5



Plot 7-31. Occupied Bandwidth Plot (Band 26/5 - 1.4MHz QPSK - Full RB Configuration)



Plot 7-32. Occupied Bandwidth Plot (Band 26/5 - 1.4MHz 16-QAM - Full RB Configuration)

| FCC ID: ZNFK300TM | PCTEST* | MEASUREMENT REPORT (CERTIFICATION) | Approved by: Quality Manager | | |
|--------------------------------|------------------|---------------------------------------|---------------------------------|--|--|
| Test Report S/N: | Test Dates: | EUT Type: | Dage 22 of 250 | | |
| 1M2002250026-02-R1.ZNF | 2/24 - 4/10/2020 | Portable Handset | Page 33 of 250 | | |
| © 2020 PCTEST V 9.0 02/01/2019 | | | | | |



| Keysight Spectrum Analyzer - Occupied | BW | | | | |
|---------------------------------------|------------------|--|-------------------------|--|--------------------------------------|
| IXI RL RF 50 Ω DC | Cen →→ Trig | SENSE:INT Iter Freq: 836.500000 MHz g: Free Run Avg Ho ten: 36 dB | Radio 9 old: 100/100 | 67 PM Feb 25, 2020 Std: None Device: BTS | Trace/Detector |
| 10 dB/div Ref 40.00 dE | 3m | | | | |
| 30.0 20.0 | | | | | Clear Write |
| 0.00 | | | | | |
| -10.0 -20.0 -30.0 | ····· | | h | man | Average |
| -40.0 | | | | | Max Hold |
| Center 836.500 MHz Res BW 33 kHz | | #VBW 110 kHz | | n 3.500 MHz p 3.067 ms | Min Hold |
| Occupied Bandwid | ath .1038 MHz | Total Power | 30.2 dBm | | Detector |
| Transmit Freq Error | 1.250 kHz | % of OBW Po | wer 99.00 % | | Detector Peak► Auto <u>Man</u> |
| x dB Bandwidth | 1.290 MHz | x dB | -26.00 dB | | |
| | | | | | |
| MSG | | | STATUS | | |

Plot 7-33. Occupied Bandwidth Plot (Band 26/5 - 1.4MHz 64-QAM - Full RB Configuration)



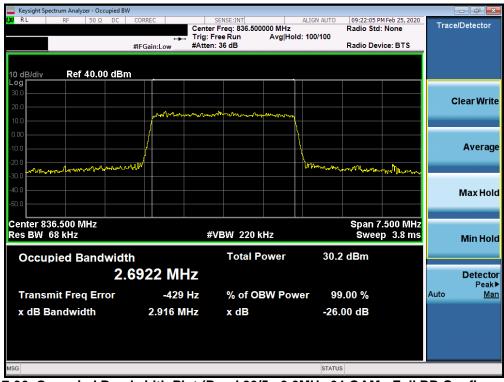
Plot 7-34. Occupied Bandwidth Plot (Band 26/5 - 3.0MHz QPSK - Full RB Configuration)

| FCC ID: ZNFK300TM | PCTEST* | MEASUREMENT REPORT (CERTIFICATION) | 💽 LG | Approved by: Quality Manager |
|------------------------|------------------|---------------------------------------|------|---------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | | Dogo 24 of 250 |
| 1M2002250026-02-R1.ZNF | 2/24 - 4/10/2020 | Portable Handset | | Page 34 of 250 |
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| Keysight Spectrum Analyzer - Occupied E | 3W | | | | - ē 🔀 |
|---|------------------------|---|--|----------------------|-------------------|
| XX RL RF 50Ω DC | Trig: | SENSE:INT er Freq: 836.500000 MHz Free Run Avg Holo n: 36 dB | ALIGN AUTO 09:21:56 P Radio Std d: 100/100 Radio Dev | | Trace/Detector |
| 10 dB/div Ref 40.00 dB | m | | | | |
| 30.0 | [ግሊ]ቢሌቢሎል/ካጮብላሪ | | | | Clear Write |
| 10.0 | fund blir densen andre | and an an an and a second second | | | |
| -10.0 | and and a second | | Mannanda | | Average |
| -20.0 -30.0 | | | ally the second se | Man Mathen Con | |
| -40.0 | | | | | Max Hold |
| Center 836.500 MHz Res BW 68 kHz | # | ≇VBW 220 kHz | | .500 MHz p 3.8 ms | Min Hold |
| Occupied Bandwid | th | Total Power | 31.5 dBm | | |
| 2 | .6944 MHz | | | | Detector Peak▶ |
| Transmit Freq Error | 3.349 kHz | % of OBW Pow | er 99.00 % | | Auto <u>Man</u> |
| x dB Bandwidth | 2.939 MHz | x dB | -26.00 dB | | |
| MSG | | | STATUS | | |

Plot 7-35. Occupied Bandwidth Plot (Band 26/5 - 3.0MHz 16-QAM - Full RB Configuration)



Plot 7-36. Occupied Bandwidth Plot (Band 26/5 - 3.0MHz 64-QAM - Full RB Configuration)

| FCC ID: ZNFK300TM | PCTEST* | MEASUREMENT REPORT (CERTIFICATION) | .G | Approved by: Quality Manager |
|------------------------|------------------|---------------------------------------|----|---------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | | Dega 25 of 250 |
| 1M2002250026-02-R1.ZNF | 2/24 - 4/10/2020 | Portable Handset | | Page 35 of 250 |
| © 2020 PCTEST | • | | | V 9.0 02/01/2019 |



| Keysight Spectrum Analyzer - Occupied BW | | | | | | | d X |
|--|------------------|--|----------------------------------|------------------------------|--------|---------|----------------------|
| (X) RL RF 50Ω DC | | SENSE:INT ter Freq: 836.500000 MHz : Free Run Avg H | ALIGN AUTO z łold: 100/100 | 09:24:38 PMI Radio Std: N | | Trace/D | etector |
| | #IFGain:Low #Att | en: 36 dB | | Radio Devic | e: BTS | | |
| 10 dB/div Ref 40.00 dBm | | | _ | | | | |
| 30.0 | | | | | | Cle | ar Write |
| 10.0 | how | men and a second | ~ | | | | |
| 0.00 | / | | | | | | |
| -10.0 | | | 1 1 | | | | Average |
| -20.0 Jummer Manuter | | | monno | monto - | who - | | Average |
| -30.0 | | | | | | | |
| -40.0 | | | | | | _ | |
| -50.0 | | | | | | N | lax Hold |
| | | | | | | | |
| Center 836.500 MHz | | | | Span 12 | | | |
| Res BW 120 kHz | | #VBW 390 kHz | | Swee | p 1 ms | Ν | /lin Hold |
| Occupied Bandwidth | | Total Power | 32.8 | dBm | | | |
| | 5120 MHz | | | | | I | Detector Peak▶ |
| Transmit Freq Error | 156 Hz | % of OBW Po | ower 99. | .00 % | | Auto | Peak ₽ <u>Man</u> |
| x dB Bandwidth | 4.975 MHz | x dB | -26.0 | 00 dB | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| MSG | | | STATUS | | | | |

Plot 7-37. Occupied Bandwidth Plot (Band 26/5 - 5.0MHz QPSK - Full RB Configuration)



Plot 7-38. Occupied Bandwidth Plot (Band 26/5 - 5.0MHz 16-QAM - Full RB Configuration)

| FCC ID: ZNFK300TM | PCTEST* | MEASUREMENT REPORT (CERTIFICATION) | 🕒 LG | Approved by: Quality Manager |
|------------------------|------------------|---------------------------------------|------|---------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | | Dage 26 of 250 |
| 1M2002250026-02-R1.ZNF | 2/24 - 4/10/2020 | Portable Handset | | Page 36 of 250 |
| © 2020 PCTEST | | | | V 9.0 02/01/2019 |



| Keysight Spectrum Analyzer - Occupied | BW | | | | |
|---------------------------------------|--------------------|---|--|---------------------|-------------------|
| KX RL RF 50Ω DC | Trig: I | SENSE:INT r Freq: 836.500000 MHz Free Run Avg Hold: 1: 36 dB | Radio Std: | | Trace/Detector |
| | #IFGain:Low #Atter | 1: 36 dB | Radio Dev | ICE: BTS | |
| 10 dB/div Ref 40.00 dB | 3m | | | | |
| Log 30.0 | | | | | |
| 20.0 | | | | | Clear Write |
| 10.0 | howen | mmm | | | |
| 0.00 | | | | | |
| -10.0 | | | | | Average |
| -20.0 | | | how when the start and | | |
| -30.0 | | | 1. 1+m-1 10.040 | · | |
| -40.0 | | | | | Max Hold |
| -50.0 | | | | | |
| Center 836.500 MHz | | | Onon 4 | 2.50 MH- | |
| Res BW 120 kHz | # | VBW 390 kHz | | 2.50 MHz ep 1 ms | Min Hold |
| Occupied Bandwid | ith | Total Power | 30.6 dBm | | |
| 4 | .5225 MHz | | | | Detector Peak▶ |
| Transmit Freq Error | -1.491 kHz | % of OBW Powe | er 99.00 % | | Auto <u>Man</u> |
| x dB Bandwidth | 4.952 MHz | x dB | -26.00 dB | | |
| | | | | | |
| | | | | | |
| | | | | | |
| MSG | | | STATUS | | |

Plot 7-39. Occupied Bandwidth Plot (Band 26/5 - 5.0MHz 64-QAM - Full RB Configuration)



Plot 7-40. Occupied Bandwidth Plot (Band 26/5 - 10.0MHz QPSK - Full RB Configuration)

| FCC ID: ZNFK300TM | PCTEST [®] Proud to be part of @ element | MEASUREMENT REPORT (CERTIFICATION) | Approved by: Quality Manager | | |
|--------------------------------|--|---------------------------------------|---------------------------------|--|--|
| Test Report S/N: | Test Dates: | EUT Type: | Dage 27 of 250 | | |
| 1M2002250026-02-R1.ZNF | 2/24 - 4/10/2020 | Portable Handset | Page 37 of 250 | | |
| © 2020 PCTEST V 9.0 02/01/2019 | | | | | |



| Keysight Spectrum Analyzer - Occupied BW | | | | | | | |
|--|------------|--|---------------------|--|------------------|------|---------------------|
| K RL RF 50Ω DC | CORREC | SENSE:INT | ALIGN AUTO | 09:28:17 P Radio Std | M Feb 25, 2020 | Trac | e/Detector |
| | | er Freq: 836.500000 MH Free Run Avg | rz Hold: 100/100 | Radio Sta | None | | |
| | | en: 36 dB | | Radio Dev | ice: BTS | | |
| | | | | | | | |
| 10 dB/div Ref 40.00 dBm | | | | | | | |
| Log | | | | | | | |
| 30.0 | | | | | | | |
| 20.0 | mannen | ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ | | | | | Clear Write |
| 10.0 | | | ~ | | | | |
| 0.00 | | | | | | | |
| -10.0 | | | N | | | | Average |
| | . Im | | Warthang | | | | Arenuge |
| -20.0 Montrow fich When The work Mark Mark | | | | A MARINE AND | and mentioned by | | |
| -30.0 | | | | | | | |
| -40.0 | | | | | | | Max Hold |
| -50.0 | | | | | | | |
| | | | | | | | |
| Center 836.50 MHz Res BW 240 kHz | | #VBW 750 kHz | | | 5.00 MHz | | |
| Res BW 240 KHZ | | #VBW 750 KHZ | | SWE | ep 1 ms | | Min Hold |
| Occupied Bandwidth | h | Total Power | 31. | 6 dBm | | | |
| | | | | | | | |
| 9.0 | 0094 MHz | | | | | | Detector Peak▶ |
| Transmit Freq Error | -2.120 kHz | % of OBW P | ower 9 | 9.00 % | | Auto | Peak► <u>Man</u> |
| x dB Bandwidth | 9.833 MHz | x dB | -26 | .00 dB | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| MSG | | | STATU | S | | | |

Plot 7-41. Occupied Bandwidth Plot (Band 26/5 - 10.0MHz 16-QAM - Full RB Configuration)



Plot 7-42. Occupied Bandwidth Plot (Band 26/5 - 10.0MHz 64-QAM - Full RB Configuration)

| FCC ID: ZNFK300TM | PCTEST* | MEASUREMENT REPORT (CERTIFICATION) | 🕒 LG | Approved by: Quality Manager |
|------------------------|------------------|---------------------------------------|------|---------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | | Dage 29 of 250 |
| 1M2002250026-02-R1.ZNF | 2/24 - 4/10/2020 | Portable Handset | | Page 38 of 250 |
| © 2020 PCTEST | | | | V 9.0 02/01/2019 |



| Keysight Spectrum Analyzer - Occupied B\ RL RF 50 Ω DC | CORREC | SENSE:INT | ALIGN AUTO | 09:30:45 PM Feb 25, 2020 | |
|--|---------------------------------------|--------------------------|--------------|--------------------------|----------------|
| 10 50 12 50 | Cente | r Freq: 836.500000 MHz | | Radio Std: None | Trace/Detector |
| | · · · · · · · · · · · · · · · · · · · | FreeRun Avg Ho n:36dB | old: 100/100 | Radio Device: BTS | |
| | #IFGain:Low #Atter | 1: 36 dB | | Radio Device: BTS | r |
| | | | | | |
| 0 dB/div Ref 35.00 dBr | n | | | | |
| og 5.0 | | | | | |
| | Mathing | | | | Clear Wri |
| 5.0 | | | | | |
| .00 | | | <u>h</u> | | |
| i.00 | | | H | | |
| 5.0 A Montal | wn | | hunghung | where a | Avera |
| 5.0 United the second s | | | | | |
| 5.0 | | | | - Ny | |
| 5.0 | | | | | |
| 5.0 | | | | | Max Ho |
| 6.0 | | | | | |
| enter 836.50 MHz | | | | Span 37.50 MHz | |
| es BW 360 kHz | # | VBW 1.1 MHz | | Sweep 1 ms | Min Ho |
| | | | | | |
| Occupied Bandwidt | h | Total Power | 32.7 | ′ dBm | |
| 13 | 3.518 MHz | | | | Detect |
| | | | | | Pea |
| Transmit Freq Error | 16.917 kHz | % of OBW Po | wer 99 | .00 % | Auto <u>M</u> |
| x dB Bandwidth | 14.68 MHz | x dB | -26 | 00 dB | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| G | | | STATUS | | |

Plot 7-43. Occupied Bandwidth Plot (Band 26 - 15.0MHz QPSK - Full RB Configuration)



Plot 7-44. Occupied Bandwidth Plot (Band 26 - 15.0MHz 16-QAM - Full RB Configuration)

| FCC ID: ZNFK300TM | PCTEST* | MEASUREMENT REPORT (CERTIFICATION) | 🕒 LG | Approved by: Quality Manager |
|------------------------|------------------|---------------------------------------|------|---------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | | Dage 20 of 250 |
| 1M2002250026-02-R1.ZNF | 2/24 - 4/10/2020 | Portable Handset | | Page 39 of 250 |
| © 2020 PCTEST | | | | V 9.0 02/01/2019 |



| Keysight Spectrum Analyzer - Occupied BW | | | | | |
|---|-------------|------------------------------------|-------------------|--|----------------|
| X RL RF 50Ω DC | CORREC | SENSE:INT Center Freg: 836.5000 | ALIGN AUTO | 09:31:06 PM Feb 25, 2 Radio Std: None | Trace/Detector |
| | #IFGain:Low | Trig: Free Run #Atten: 36 dB | Avg Hold: 100/100 | Radio Device: BTS | _ |
| 10 dB/div Ref 35.00 dBm | | | | | |
| 25.0 | | | | | Clear Writ |
| 5.00 | - Jowerson | WWARNIN CONTRACTOR | ourse what | | |
| 5.00 | | | | | |
| 5.0 5.0 martine martine and and a start a start and a st | ~~ | | 1 minarial and | Murmunority | Averag |
| 5.0 | | | | and the second have and mining and | M. |
| 5.0 | | | | | Max Ho |
| enter 836.50 MHz | | | | Span 37.50 M | Hz |
| es BW 360 kHz | | #VBW 1.1 M | Hz | Sweep 1 | |
| Occupied Bandwidt | h | Total Po | ower 30. | 7 dBm | |
| 13 | .483 MH | Z | | | Detecto |
| Transmit Freq Error | -2.862 kł | Hz % of OB | W Power 9 | 9.00 % | Auto <u>Ma</u> |
| x dB Bandwidth | 14.79 MH | lz xdB | -26 | .00 dB | |
| | | | | | |
| iG | | | STATU | JS | |

Plot 7-45. Occupied Bandwidth Plot (Band 26 - 15.0MHz 64-QAM - Full RB Configuration)

| FCC ID: ZNFK300TM | PCTEST* | MEASUREMENT REPORT (CERTIFICATION) | .G | Approved by: Quality Manager |
|------------------------------|------------------|---------------------------------------|----|---------------------------------|
| Test Report S/N: Test Dates: | | EUT Type: | | Dage 40 of 250 |
| 1M2002250026-02-R1.ZNF | 2/24 - 4/10/2020 | Portable Handset | | Page 40 of 250 |
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Band 66/4

| Keysight Spectrum Analyzer - Occupied BW | | | | | |
|--|------------|---|------------------------------------|---|----------------|
| XIRL RF 50Ω DC | Trig | SENSE:INT ter Freq: 1.745000000 G : Free Run Avg en: 36 dB | ALIGN AUTO Hz Hold: 100/100 | 09:55:29 PM Feb 25 Radio Std: None Radio Device: BT | Trace/Detector |
| 10 dB/div Ref 30.00 dBm | | | | | |
| 10.0 | | | | | Clear Write |
| 20.0 30.0 40.0 | | | | mun won | Averag |
| 60.0 | | | | | Max Hol |
| Center 1.745000 GHz Res BW 33 kHz | | #VBW 30 kHz Total Powe | | Span 3.500 Sweep 4.067 | |
| Occupied Bandwidth | 977 MHz | Total Powe | 31.0 | o abm | Detecto |
| Transmit Freq Error | -1.894 kHz | % of OBW F | ower 99 | 0.00 % | Auto <u>Ma</u> |
| x dB Bandwidth | 1.270 MHz | x dB | -26. | 00 dB | |
| SG | | | STATUS | 3 | |

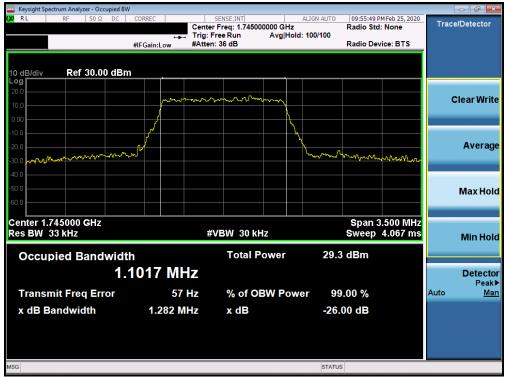
Plot 7-46. Occupied Bandwidth Plot (Band 66/4 - 1.4MHz QPSK - Full RB Configuration)



Plot 7-47. Occupied Bandwidth Plot (Band 66/4 - 1.4MHz 16-QAM - Full RB Configuration)

| FCC ID: ZNFK300TM | Proud to be part of @ element | MEASUREMENT REPORT (CERTIFICATION) | Approved by: Quality Manager |
|------------------------|-------------------------------|---------------------------------------|---------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | Dage 41 of 250 |
| 1M2002250026-02-R1.ZNF | 2/24 - 4/10/2020 | Portable Handset | Page 41 of 250 |
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Plot 7-48. Occupied Bandwidth Plot (Band 66/4 - 1.4MHz 64-QAM - Full RB Configuration)



Plot 7-49. Occupied Bandwidth Plot (Band 66/4 - 3.0MHz QPSK - Full RB Configuration)

| FCC ID: ZNFK300TM | PCTEST [®] Proud to be part of @ element | MEASUREMENT REPORT (CERTIFICATION) | Approved by: Quality Manager |
|------------------------|--|---------------------------------------|---------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | Dage 42 of 250 |
| 1M2002250026-02-R1.ZNF | 2/24 - 4/10/2020 | Portable Handset | Page 42 of 250 |
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| Keysight Spectrum Analyzer - Occupied E | W | | | | |
|---|--|--|-------------------------------------|---|-------------------|
| LXU RL RF 50Ω DC | | SENSE:INT enter Freq: 1.745000000 ig: Free Run Avg | ALIGN AUTO GHz gHold: 100/100 | 09:58:52 PM Feb 25, 20 Radio Std: None | Trace/Detector |
| | | tten: 36 dB | | Radio Device: BTS | |
| 10 dB/div Ref 30.00 dB | m | | | | |
| Log 20.0 10.0 | mannt | Mm Man Mar | ~~ | | Clear Write |
| -10.0 | | | | | |
| -20.0 -30.0 -30.0 | ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ | | hitem (samper | and and a man the constitution | Average |
| -40.0 | | | | | Max Hold |
| Center 1.745000 GHz | | | | Span 7.500 MH | |
| Res BW 68 kHz | th | #VBW 220 kHz | r 31 (| Sweep 3.8 m | ns Min Hold |
| Occupied Bandwid | .6935 MHz | | | | Detector Peak▶ |
| Transmit Freq Error | 286 Hz | % of OBW I | ower 99 | .00 % | Auto <u>Man</u> |
| x dB Bandwidth | 2.932 MHz | x dB | -26. | 00 dB | |
| MSG | | | STATUS | 3 | |

Plot 7-50. Occupied Bandwidth Plot (Band 66/4 - 3.0MHz 16-QAM - Full RB Configuration)



Plot 7-51. Occupied Bandwidth Plot (Band 66/4 - 3.0MHz 64-QAM - Full RB Configuration)

| FCC ID: ZNFK300TM | PCTEST [®] Proud to be part of @ element | MEASUREMENT REPORT (CERTIFICATION) | 🕒 LG | Approved by: Quality Manager |
|------------------------|--|---------------------------------------|------|---------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | | Dage 42 of 250 |
| 1M2002250026-02-R1.ZNF | 2/24 - 4/10/2020 | Portable Handset | | Page 43 of 250 |
| © 2020 PCTEST | • | | | V 9.0 02/01/2019 |





Plot 7-52. Occupied Bandwidth Plot (Band 66/4 - 5.0MHz QPSK - Full RB Configuration)



Plot 7-53. Occupied Bandwidth Plot (Band 66/4 - 5.0MHz 16-QAM - Full RB Configuration)

| FCC ID: ZNFK300TM | Proud to be part of (a) element | MEASUREMENT REPORT (CERTIFICATION) | Approved by: Quality Manager |
|------------------------|---------------------------------|---------------------------------------|---------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | Dogo 44 of 250 |
| 1M2002250026-02-R1.ZNF | 2/24 - 4/10/2020 | Portable Handset | Page 44 of 250 |
| © 2020 PCTEST | | | V 9.0 02/01/2019 |



| Center 1.7450000 GHz #VEW 390 kHz Center 1.7450000 GHz #Atten: 38 dB Center 1.745000 GHz Radio Std: None Radio | Keysight Spectrum Analyzer - Occupied B ¹ | W | | | | |
|---|--|--|--------------------------|-------------------|-----------|----------------|
| 10 dB/div Ref 40.00 dBm 10 dB/div Ref 40.00 dBm 10 dB/div Ref 40.00 dBm 10 dD/du | ΙΧΊ R L RF 50 Ω DC | Cente | er Freq: 1.745000000 GHz | Radio Std | | Trace/Detector |
| Log Image: Clear Write 20 Image: | | #IFGain:Low #Atte | n: 36 dB | Radio Dev | vice: BTS | |
| 30 30 <td< td=""><td></td><td>n</td><td></td><td></td><td></td><td></td></td<> | | n | | | | |
| 200 00 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td></t<> | | | | | | |
| Image: Context 1.745000 GHz #VBW 390 KHz Span 12.50 MHz Max Hold Center 1.745000 GHz #VBW 390 KHz Span 12.50 MHz Min Hold Center 1.745000 GHz #VBW 390 KHz Sweep 1 ms Min Hold Coccupied Bandwidth Total Power 30.3 dBm Detector Y Y SWeep 1 ms Min Hold Max Hold Min Hold Min Hold Max Max Hold Min Hold Min Hold Min Hold Min Hold Man 5.236 MHz x dB -26.00 dB | 20.0 | | | | | Clear Write |
| 000 | 10.0 | ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ | man man | | | |
| 10.0 Average 20.0 Average 30.0 Average 40.0 Span 12.50 MHz 20.0 Max Hold Center 1.745000 GHz Res BW 120 kHz Span 12.50 MHz Span 12.50 MHz Sweep 1 ms Occupied Bandwidth Total Power 30.3 dBm 4.5473 MHz % of OBW Power 99.00 % x dB Bandwidth 5.236 MHz x dB -26.00 dB | 0.00 | | | | | |
| 20.0 | | | | | | Average |
| 40.0 | | 1 | | | | |
| 40.0 | 20.0 grand march the and the | w ^r | | walnow marked war | www.www. | |
| 20.0 Center 1.745000 GHz Res BW 120 kHz Span 12.50 MHz Sweep 1 ms Min Hold Occupied Bandwidth 4.5473 MHz Total Power 30.3 dBm Detector Peak ▶ Transmit Freq Error -6.139 kHz % of OBW Power 99.00 % Auto Man x dB Bandwidth 5.236 MHz x dB -26.00 dB Min Hold | | | | | | |
| Center 1.745000 GHz Res BW 120 kHz Span 12.50 MHz Sweep 1 ms Min Hold Occupied Bandwidth 4.5473 MHz Total Power 30.3 dBm Transmit Freq Error -6.139 kHz % of OBW Power 99.00 % x dB Bandwidth 5.236 MHz x dB -26.00 dB | | | | | | Max Hold |
| Res BW 120 kHz #VBW 390 kHz Sweep 1 ms Occupied Bandwidth Total Power 30.3 dBm 4.5473 MHz Detector Transmit Freq Error -6.139 kHz % of OBW Power 99.00 % x dB Bandwidth 5.236 MHz x dB -26.00 dB | -50.0 | | | | | |
| Occupied Bandwidth Total Power 30.3 dBm 4.5473 MHz Detector Transmit Freq Error -6.139 kHz % of OBW Power 99.00 % x dB Bandwidth 5.236 MHz x dB -26.00 dB | Center 1.745000 GHz | | | Span 1 | 2.50 MHz | |
| 4.5473 MHz Detector Transmit Freq Error -6.139 kHz % of OBW Power 99.00 % x dB Bandwidth 5.236 MHz x dB -26.00 dB | Res BW 120 kHz | # | ¢VBW 390 kHz | Sw | eep 1 ms | Min Hold |
| Transmit Freq Error -6.139 kHz % of OBW Power 99.00 % x dB Bandwidth 5.236 MHz x dB -26.00 dB | | | Total Power | 30.3 dBm | | |
| Transmit Freq Error -6.139 kHz % of OBW Power 99.00 % Auto Man x dB Bandwidth 5.236 MHz x dB -26.00 dB Image: Comparison of the second sec | 4. | 5473 MHz | | | | |
| | Transmit Freq Error | -6.139 kHz | % of OBW Powe | er 99.00 % | | |
| | x dB Bandwidth | 5.236 MHz | x dB | -26.00 dB | | |
| | | | | | | |
| MSG STATUS | MSG | | | STATUS | | |

Plot 7-54. Occupied Bandwidth Plot (Band 66/4 - 5.0MHz 64-QAM - Full RB Configuration)



Plot 7-55. Occupied Bandwidth Plot (Band 66/4 - 10.0MHz QPSK - Full RB Configuration)

| FCC ID: ZNFK300TM | PCTEST [®] Proud to be part of @ element | MEASUREMENT REPORT (CERTIFICATION) | 🕕 LG | Approved by: Quality Manager |
|------------------------|---|---------------------------------------|------|---------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | | Dage 45 of 250 |
| 1M2002250026-02-R1.ZNF | 2/24 - 4/10/2020 | Portable Handset | | Page 45 of 250 |
| © 2020 PCTEST | | | | V 9.0 02/01/2019 |



| Keysight Spectrum Analyzer - Occu | pied BW | | | | | |
|--------------------------------------|---------------------------|--|-------------------------------------|----------------------|---------------------|-------------------|
| μXI RL RF 50 Ω | DC CORREC # #FGain:Low | SENSE:INT Center Freq: 1.74500 Trig: Free Run #Atten: 36 dB | ALIGN 0000 GHz Avg Hold: 100/ | Radio Std: | | Trace/Detector |
| 10 dB/div Ref 40.00 | dBm | | | | | |
| Log 30.0 20.0 | 8A A Alward | | arth-arthba | | | Clear Write |
| 10.0 | | | | | | |
| 0.00 -10.0 -20.0 | -relifinger | | | bour for the sources | | Average |
| -30.0 | | | | | a have really and | |
| -40.0 | | | | | | Max Hold |
| Center 1.74500 GHz Res BW 240 kHz | | #VBW 750 k | ïHz | | 5.00 MHz ep 1 ms | Min Hold |
| Occupied Bandy | vidth | Total P | ower | 31.0 dBm | | |
| | 9.0197 MH | | | | | Detector Peak▶ |
| Transmit Freq Erro | | | 3W Power | 99.00 % | | Auto <u>Man</u> |
| x dB Bandwidth | 10.03 M | Hz x dB | | -26.00 dB | | |
| MSG | | | | STATUS | | |

Plot 7-56. Occupied Bandwidth Plot (Band 66/4 - 10.0MHz 16-QAM - Full RB Configuration)



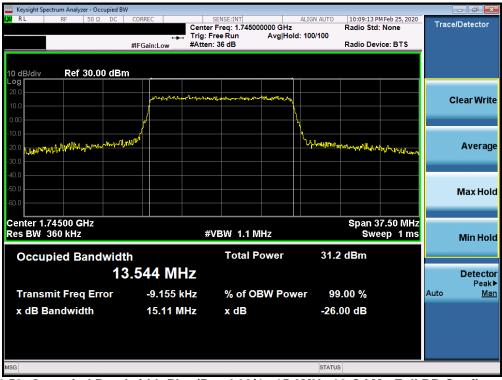
Plot 7-57. Occupied Bandwidth Plot (Band 66/4 - 10.0MHz 64-QAM - Full RB Configuration)

| FCC ID: ZNFK300TM | PCTEST* | MEASUREMENT REPORT (CERTIFICATION) | 🕒 LG | Approved by: Quality Manager |
|------------------------|------------------|---------------------------------------|------|---------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | | Dage 40 of 250 |
| 1M2002250026-02-R1.ZNF | 2/24 - 4/10/2020 | Portable Handset | | Page 46 of 250 |
| © 2020 PCTEST | | | | V 9.0 02/01/2019 |



| Keysight Spectrum Analyzer - Occupied | BW | | | | |
|---------------------------------------|---------------------------|--|--------------------------------|-------------------------------|-------------------|
| IX RL RF 50Ω DC | | SENSE:INT Center Freq: 1.745000000 GH Frig: Free Run Avg H | | PM Feb 25, 2020 d: None | Trace/Detector |
| | #IFGain:Low # | Atten: 36 dB | Radio De | vice: BTS | |
| 10 dB/div Ref 30.00 dB | m | | | | |
| 20.0 | manamana | r-andressing for a france of the formation of the formati | | | Clear Write |
| 0.00 | | | | | |
| -20.0 | harry of fe ^{rf} | | Marsh and a hope of the speech | المرابعين مريحي مريحي المريحي | Average |
| -40.0 | | | | | Max Hold |
| -60.0 | | | | | Max Hold |
| Center 1.74500 GHz Res BW 360 kHz | | #VBW 1.1 MHz | | 37.50 MHz eep 1 ms | Min Hold |
| Occupied Bandwic | | Total Power | 32.1 dBm | | |
| 1 | 3.567 MHz | | | | Detector Peak▶ |
| Transmit Freq Error | 13.673 kH | z % of OBW Po | ower 99.00 % | | Auto <u>Man</u> |
| x dB Bandwidth | 15.21 MH | z x dB | -26.00 dB | | |
| MSG | | | STATUS | | |

Plot 7-58. Occupied Bandwidth Plot (Band 66/4 - 15.0MHz QPSK - Full RB Configuration)



Plot 7-59. Occupied Bandwidth Plot (Band 66/4 - 15.0MHz 16-QAM - Full RB Configuration)

| FCC ID: ZNFK300TM | PCTEST* | MEASUREMENT REPORT (CERTIFICATION) | 🕕 LG | Approved by: Quality Manager |
|------------------------|------------------|---------------------------------------|------|---------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | | Dage 47 of 250 |
| 1M2002250026-02-R1.ZNF | 2/24 - 4/10/2020 | Portable Handset | | Page 47 of 250 |
| © 2020 PCTEST | | | | V 9.0 02/01/2019 |



| Keysight Spectrum Analyzer - Occupied | BW | | | | |
|---------------------------------------|--|--|--|--|-------------------|
| UXIRL RF 50Ω DC | Trig: | SENSE:INT er Freq: 1.745000000 GHz Free Run Avg Hold n: 36 dB | ALIGN AUTO 10:09:24 F Radio Std 1: 100/100 Radio Dev | | Trace/Detector |
| 10 dB/div Ref 30.00 dE | 3m | | | | |
| 20.0 | and the second s | | | | Clear Write |
| -10.0 | mp. | | A Compare the second se | | Average |
| -20.0 -30.0 -40.0 | | | I In markeyeder | and the second sec | |
| -50.0 | | | | | Max Hold |
| Center 1.74500 GHz Res BW 360 kHz | | VBW 1.1 MHz | | 87.50 MHz eep 1 ms | Min Hold |
| | 3.521 MHz | | | | Detector Peak► |
| Transmit Freq Error x dB Bandwidth | 5.627 kHz 15.14 MHz | % of OBW Pow x dB | er 99.00 % -26.00 dB | | Auto <u>Man</u> |
| MSG | | | STATUS | | |

Plot 7-60. Occupied Bandwidth Plot (Band 66/4 - 15.0MHz 64-QAM - Full RB Configuration)



Plot 7-61. Occupied Bandwidth Plot (Band 66/4 - 20.0MHz QPSK - Full RB Configuration)

| FCC ID: ZNFK300TM | PCTEST* | MEASUREMENT REPORT (CERTIFICATION) | 🕕 LG | Approved by: Quality Manager |
|------------------------|------------------|---------------------------------------|------|---------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | | Dage 49 of 250 |
| 1M2002250026-02-R1.ZNF | 2/24 - 4/10/2020 | Portable Handset | | Page 48 of 250 |
| © 2020 PCTEST | | | | V 9.0 02/01/2019 |



| Keysight Spectrum Analyzer - Occupied B | W | | | | | _ | |
|---|-----------------|--|---------------------------------|---|---------------------|-------|-------------------|
| (X) RL RF 50 Ω DC | Trig: | SENSE:INT er Freq: 1.745000000 GH Free Run Avg H en: 36 dB | ALIGN AUTO z old: 100/100 | 10:11:46 PM Radio Std: Radio Devi | | Trace | Detector |
| 10 dB/div Ref 40.00 dBi | m | | | | | | |
| 30.0 20.0 | nalaning menang | ve-ph/pen-phone- | • • | | | с | lear Write |
| 0.00 | | | N. | | | | |
| -10.0 -20.0 | Med | | h Norradianadorea | hvis ^a htelterity | Millional | | Average |
| -30.0 | | | | | | | Max Hold |
| Center 1.74500 GHz Res BW 470 kHz | | #VBW 1.5 MHz | | | 0.00 MHz ep 1 ms | | |
| Occupied Bandwid | | Total Power | 31.1 | dBm | | | Min Hold |
| 18 | 8.006 MHz | | | | | | Detector Peak▶ |
| Transmit Freq Error | -14.092 kHz | % of OBW Po | wer 99 | .00 % | | Auto | Man |
| x dB Bandwidth | 19.88 MHz | x dB | -26.0 | 00 dB | | | |
| MSG | | | STATUS | | | | |

Plot 7-62. Occupied Bandwidth Plot (Band 66/4 - 20.0MHz 16-QAM - Full RB Configuration)



Plot 7-63. Occupied Bandwidth Plot (Band 66/4 - 20.0MHz 64-QAM - Full RB Configuration)

| FCC ID: ZNFK300TM | PCTEST* | MEASUREMENT REPORT (CERTIFICATION) | 💽 LG | Approved by: Quality Manager |
|------------------------|------------------|---------------------------------------|------|---------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | | Dage 40 of 250 |
| 1M2002250026-02-R1.ZNF | 2/24 - 4/10/2020 | Portable Handset | | Page 49 of 250 |
| © 2020 PCTEST | | | | V 9.0 02/01/2019 |



Band 25/2

| Keysight Spectrum Analyzer - Occupied BW | | | | | - ē <u>-</u> |
|---|------------|---|-----------------------------------|--|------------------|
| X RL RF 50Ω DC | 🛶 Trig: I | SENSE:INT er Freq: 1.882500000 G Free Run Avg n: 36 dB | ALIGN AUTO Hz Hold: 100/100 | 10:57:46 PM Feb 2 Radio Std: Non Radio Device: E | e Trace/Detector |
| 10 dB/div Ref 30.00 dBm _og | | | | | |
| 10.0 0.00 10.0 | | | | | Clear Writ |
| 20.0 mm | | | | | Averag |
| 50.0 50.0 Center 1.882500 GHz | | | | Span 3.500 | Max Hol |
| Occupied Bandwidth | | VBW 110 kHz Total Power | 31.9 | Sweep 3.06 | |
| 1.0 | 990 MHz | | | | Detect |
| Transmit Freq Error | -1.923 kHz | % of OBW P | ower 99 | .00 % | Auto <u>Ma</u> |
| x dB Bandwidth | 1.277 MHz | x dB | -26. | 00 dB | |
| G | | | STATUS | 3 | |

Plot 7-64. Occupied Bandwidth Plot (Band 25/2 - 1.4MHz QPSK - Full RB Configuration)



Plot 7-65. Occupied Bandwidth Plot (Band 25/2 - 1.4MHz 16-QAM - Full RB Configuration)

| FCC ID: ZNFK300TM | PCTEST* | MEASUREMENT REPORT (CERTIFICATION) | 🕒 LG | Approved by: Quality Manager | |
|---|-------------|---------------------------------------|------|---------------------------------|--|
| Test Report S/N: | Test Dates: | EUT Type: | | Dage 50 of 250 | |
| 1M2002250026-02-R1.ZNF 2/24 – 4/10/2020 | | Portable Handset | | Page 50 of 250 | |
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Plot 7-66. Occupied Bandwidth Plot (Band 25/2 - 1.4MHz 64-QAM - Full RB Configuration)



Plot 7-67. Occupied Bandwidth Plot (Band 25/2 - 3.0MHz QPSK - Full RB Configuration)

| FCC ID: ZNFK300TM | PCTEST* | MEASUREMENT REPORT (CERTIFICATION) | Approved by: Quality Manager | |
|------------------------|------------------|---------------------------------------|---------------------------------|--|
| Test Report S/N: | Test Dates: | EUT Type: | Daga E1 of 2E0 | |
| 1M2002250026-02-R1.ZNF | 2/24 - 4/10/2020 | Portable Handset | Page 51 of 250 | |
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| Keysight Spectrum Analyzer - Occupied | BW | | | | |
|---------------------------------------|---|--|---|---|--------------------------|
| LXI RL RF 50Ω DC | CORREC | SENSE:INT Center Freq: 1.882500 Trig: Free Run | ALIGN AUTO 0000 GHz Avg Hold: 100/100 | 11:00:49 PM Feb 25, 20 Radio Std: None | Trace/Detector |
| | #IFGain:Low | #Atten: 36 dB | | Radio Device: BTS | |
| 10 dB/div Ref 40.00 dB | im | | | | |
| 30.0 | Aughter Aug | | | | Clear Write |
| 10.0 | Contraction of the second s | marcher and an and | | | |
| -10.0 | | | | | Average |
| Contraction of the second second | have a second | | | - menter of all and the second | Ma. |
| -30.0 | | | | | Max Hold |
| Center 1.882500 GHz Res BW 68 kHz | | #VBW 220 ki | Hz | Span 7.500 MH Sweep 3.8 m | |
| Occupied Bandwid | | Total Po | ower 30. | 8 dBm | |
| 2 | .6906 MH | Z | | | Detector |
| Transmit Freq Error | 421 | Hz % of OB | W Power 9 | 9.00 % | Peak▶ Auto <u>Man</u> |
| x dB Bandwidth | 2.936 MI | Hz xdB | -26 | .00 dB | |
| MSG | | | STATU | JS | |

Plot 7-68. Occupied Bandwidth Plot (Band 25/2 - 3.0MHz 16-QAM - Full RB Configuration)



Plot 7-69. Occupied Bandwidth Plot (Band 25/2 - 3.0MHz 64-QAM - Full RB Configuration)

| FCC ID: ZNFK300TM | PCTEST [®] Proud to be part of @ element | MEASUREMENT REPORT (CERTIFICATION) | 🕒 LG | Approved by: Quality Manager | |
|--------------------------------|---|---------------------------------------|------|---------------------------------|--|
| Test Report S/N: | Test Dates: | EUT Type: | | Page 52 of 250 | |
| 1M2002250026-02-R1.ZNF | 2/24 - 4/10/2020 | Portable Handset | | | |
| © 2020 PCTEST V 9.0 02/01/2019 | | | | | |



| Keysight Spectrum Analyzer - Occupied B\ | V | | | | |
|--|-------------------------|--|--|---|-------------------|
| (20) RL RF 50Ω DC | | SENSE:INT enter Freq: 1.882500 rig: Free Run Atten: 36 dB | ALIGN AUTO 000 GHz Avg Hold:>100/100 | 11:03:00 PM Feb 25, 2 Radio Std: None Radio Device: BTS | Trace/Detector |
| 10 dB/div Ref 30.00 dBr | an dunied an | | | | |
| 20.0 10.0 | Jurmin | n marine and a second | m.m. | | Clear Write |
| 0.00 -10.0 -20.0 | ~~~~ | | - hourson | mar and the second | Average |
| -30.0 -40.0 -50.0 | | | | | MaxHold |
| -60.0 Center 1.882500 GHz | | | | Span 12.50 M | Hz |
| Res BW 120 kHz Occupied Bandwidt | h | #VBW 390 kH | | Sweep 1 r 1 dBm | ns Min Hold |
| 4. | 5391 MHz | | | | Detector Peak► |
| Transmit Freq Error x dB Bandwidth | -1.361 kHz 5.202 MHz | | | 9.00 % .00 dB | Auto <u>Man</u> |
| | 5.202 MH2 | X dB | -20 | 00 dB | |
| MSG | | | STATU | S | |

Plot 7-70. Occupied Bandwidth Plot (Band 25/2 - 5.0MHz QPSK - Full RB Configuration)



Plot 7-71. Occupied Bandwidth Plot (Band 25/2 - 5.0MHz 16-QAM - Full RB Configuration)

| FCC ID: ZNFK300TM | Proud to be part of (a) element | MEASUREMENT REPORT (CERTIFICATION) | Approved by: Quality Manager | |
|------------------------|---------------------------------|---------------------------------------|---------------------------------|--|
| Test Report S/N: | Test Dates: | EUT Type: | Daga E2 of 250 | |
| 1M2002250026-02-R1.ZNF | 2/24 - 4/10/2020 | Portable Handset | Page 53 of 250 | |
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Plot 7-72. Occupied Bandwidth Plot (Band 25/2 - 5.0MHz 64-QAM - Full RB Configuration)



Plot 7-73. Occupied Bandwidth Plot (Band 25/2 - 10.0MHz QPSK - Full RB Configuration)

| FCC ID: ZNFK300TM | PCTEST [®] Proud to be part of @ element | MEASUREMENT REPORT (CERTIFICATION) | .G | Approved by: Quality Manager | |
|--------------------------------|---|---------------------------------------|----|---------------------------------|--|
| Test Report S/N: | Test Dates: | EUT Type: | | | |
| 1M2002250026-02-R1.ZNF | 2/24 - 4/10/2020 | Portable Handset | | Page 54 of 250 | |
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| Keysight Spectrum Analyzer - Occupied | BW | | | | - ē x |
|---------------------------------------|--------------------------|--|--|----------|------------------------------|
| IXIRL RF 50Ω DC | Cen Trig | SENSE:INT ter Freq: 1.882500000 GHz : Free Run Avg Holo en: 36 dB | ALIGN AUTO 11:05:39 PM Radio Std: d: 100/100 Radio Devi | | Trace/Detector |
| 10 dB/div Ref 40.00 dE | 3m | | | | |
| | | | | | Clear Write |
| 10.0 | programme and a second | mannen | | | |
| -10.0 | | | | | Average |
| -20.0 -20.0 -30.0 | Mrw W | | how and the particulation | NAN WINN | |
| -40.0 | | | | | Max Hold |
| Center 1.88250 GHz | | | Span 2 | 5.00 MHz | |
| Res BW 240 kHz | | #VBW 750 kHz | | ep 1 ms | Min Hold |
| Occupied Bandwig | | Total Power | 31.3 dBm | | Detector |
| Transmit Freq Error | 0.0171 MHz 12.562 kHz | % of OBW Pow | er 99.00 % | А | Detector Peak▶ uto Man |
| x dB Bandwidth | 10.09 MHz | x dB | -26.00 dB | | |
| | | | | | |
| | | | | | |
| MSG | | | STATUS | | |

Plot 7-74. Occupied Bandwidth Plot (Band 25/2 - 10.0MHz 16-QAM - Full RB Configuration)



Plot 7-75. Occupied Bandwidth Plot (Band 25/2 - 10.0MHz 64-QAM - Full RB Configuration)

| FCC ID: ZNFK300TM | PCTEST* | MEASUREMENT REPORT (CERTIFICATION) | 🕒 LG | Approved by: Quality Manager | |
|------------------------|------------------|---------------------------------------|------|---------------------------------|--|
| Test Report S/N: | Test Dates: | EUT Type: | | Dage FE of 250 | |
| 1M2002250026-02-R1.ZNF | 2/24 - 4/10/2020 | Portable Handset | | Page 55 of 250 | |
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| Keysight Spectrum Analyzer - Occupied BW | / | | | | |
|--|-----------------------|--|------------------------------------|--------------------------|-------------------|
| LX/RL RF 50Ω DC | CORREC | SENSE:INT er Freq: 1.882500000 GHz | ALIGN AUTO 11:07:57 P Radio Std | M Feb 25, 2020 : None | Trace/Detector |
| | 🛶 Trig: | Free Run Avg Hold | d: 100/100 Radio Dev | tion: BTS | |
| | #IFGain:Low #Atte | En. 30 dD | Radio Dev | ACE. DT3 | |
| 10 dB/div Ref 40.00 dBn | | | | | |
| 10 dB/div Ref 40.00 dBn | | | | | |
| 30.0 | | | | | Clear Write |
| 20.0 | and the second stands | ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ | | | Clear Write |
| 10.0 | | | | | |
| 0.00 | | | | | |
| -10.0 | v1/M ^{BL} | | 1 | | Average |
| -20.0 market and the second and the second s | | | "how have been seen to be | man when the | |
| -30.0 | | | | | |
| -40.0 | | | | | Max Hold |
| -50.0 | | | | | |
| Center 1.88250 GHz | | | Span 3 | 7.50 MHz | |
| Res BW 360 kHz | | #VBW 1.1 MHz | Swe | eep 1 ms | Min Hold |
| Occupied Bandwidt | h | Total Power | 32.2 dBm | | |
| | | | | | |
| | 8.564 MHz | | | | Detector Peak► |
| Transmit Freq Error | 15.996 kHz | % of OBW Pow | er 99.00 % | | Auto <u>Man</u> |
| x dB Bandwidth | 15.28 MHz | x dB | -26.00 dB | | |
| | | | | | |
| | | | | | |
| | | | | | |
| MSG | | | STATUS | | |

Plot 7-76. Occupied Bandwidth Plot (Band 25/2 - 15.0MHz QPSK - Full RB Configuration)



Plot 7-77. Occupied Bandwidth Plot (Band 25/2 - 15.0MHz 16-QAM - Full RB Configuration)

| FCC ID: ZNFK300TM | PCTEST [®] Proud to be part of @ element | MEASUREMENT REPORT (CERTIFICATION) | 🕒 LG | Approved by: Quality Manager | |
|--------------------------------|---|---------------------------------------|------|---------------------------------|--|
| Test Report S/N: | Test Dates: | EUT Type: | | Page 56 of 250 | |
| 1M2002250026-02-R1.ZNF | 2/24 - 4/10/2020 | Portable Handset | | | |
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| Keysight Spectrum Analyzer - Occupied | 1 BW | | | | |
|---------------------------------------|-----------|---|------------------|--|-----------------|
| LX RL RF 50Ω DC | | SENSE:INT | | 8:17 PM Feb 25, 2020 Std: None | Trace/Detector |
| | | ter Freq: 1.882500000 GHz : Free Run Avg Ho | d: 100/100 | o sta: None | |
| | | en: 36 dB | | Device: BTS | |
| | | | | | |
| 10 dB/div Ref 40.00 dl | Bm | | | | |
| Log | | | | | |
| 30.0 | | | | | |
| 20.0 | | | | | Clear Write |
| 10.0 | manner | งม <i>ารส</i> . ใปมาใช้เว _{าสู่} ร้างการสารสร้างให้สุดไปเล | | | |
| 0.00 | | | | | |
| | 5 | | Ϋ́, | | Average |
| -10.0 | . / | | 1 | | Average |
| -20.0 | | | mon that the way | Warman and and and and and and and and and a | |
| -30.0 | | | | | |
| -40.0 | | | | | Max Hold |
| -50.0 | | | | | maxitora |
| | | | | | |
| Center 1.88250 GHz | | | | an 37.50 MHz | |
| Res BW 360 kHz | | #VBW 1.1 MHz | | Sweep 1 ms | Min Hold |
| | 141 | Total Power | 30.1 dBr | | |
| Occupied Bandwi | | Total Power | 30.1 GBI | 1 | |
| 13.523 MHz | | | | | Detector |
| | | | | | Peak▶ |
| Transmit Freq Error | 1.117 kHz | % of OBW Po | wer 99.00 % | 6 | Auto <u>Man</u> |
| x dB Bandwidth | 15.25 MHz | x dB | -26.00 d | в | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| MSG | | | STATUS | | |

Plot 7-78. Occupied Bandwidth Plot (Band 25/2 - 15.0MHz 64-QAM - Full RB Configuration)



Plot 7-79. Occupied Bandwidth Plot (Band 25/2 - 20.0MHz QPSK - Full RB Configuration)

| FCC ID: ZNFK300TM | PCTEST* | MEASUREMENT REPORT (CERTIFICATION) | 🕕 LG | Approved by: Quality Manager | |
|------------------------|------------------|---------------------------------------|------|---------------------------------|--|
| Test Report S/N: | Test Dates: | EUT Type: | | Page 57 of 250 | |
| 1M2002250026-02-R1.ZNF | 2/24 - 4/10/2020 | Portable Handset | | | |
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| 🔤 Keysight Spectrum Analyzer - Occupied BW 👘 👘 🔤 | | | | | | |
|--|-----------|--|-----------|------------------------------|---------------------|-------------------|
| (X) RL RF 50 Ω D | C CORREC | SENSE:INT Center Freq: 1.88250 Trig: Free Run #Atten: 36 dB | | Radio Std: | | Trace/Detector |
| 10 dB/div Ref 40.00 d | IBm | | · · · · · | | | |
| 30.0 | | | | | | Clear Write |
| 10.0 | | warse-particular and and and | human | | | |
| 0.00 | | | | | | Average |
| -20.0 Annow Myrun Man Parker Miller | | | | Maser and particular and the | may of working | |
| -30.0 | | | | | | Max Hold |
| Center 1.88250 GHz Res BW 470 kHz | | #VBW 1.5 M | IHz | | 0.00 MHz ep 1 ms | Min Hold |
| Occupied Bandwi | idth | Total P | ower | 31.0 dBm | | |
| 18.037 MHz | | | | | | Detector Peak▶ |
| Transmit Freq Error | -15.379 k | Hz % of O | 3W Power | 99.00 % | | Auto <u>Man</u> |
| x dB Bandwidth | 19.76 M | Hz x dB | | -26.00 dB | | |
| MSG | | | | STATUS | | |

Plot 7-80. Occupied Bandwidth Plot (Band 25/2 - 20.0MHz 16-QAM - Full RB Configuration)

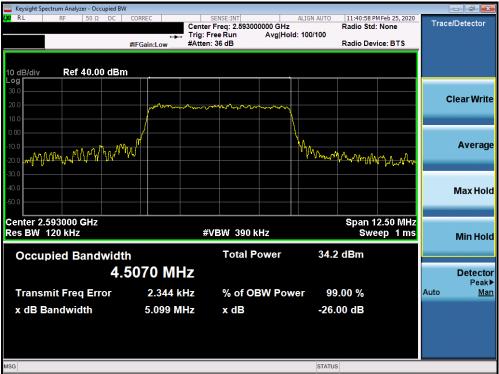


Plot 7-81. Occupied Bandwidth Plot (Band 25/2 - 20.0MHz 64-QAM - Full RB Configuration)

| FCC ID: ZNFK300TM | PCTEST* | MEASUREMENT REPORT (CERTIFICATION) | 💽 LG | Approved by: Quality Manager | |
|------------------------|------------------|---------------------------------------|------|---------------------------------|--|
| Test Report S/N: | Test Dates: | EUT Type: | | Dage EQ of 250 | |
| 1M2002250026-02-R1.ZNF | 2/24 - 4/10/2020 | Portable Handset | | Page 58 of 250 | |
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Band 41 PC2



Plot 7-82. Occupied Bandwidth Plot (Band 41 PC2 - 5.0MHz QPSK - Full RB Configuration)



Plot 7-83. Occupied Bandwidth Plot (Band 41 PC2 - 5.0MHz 16-QAM - Full RB Configuration)

| FCC ID: ZNFK300TM | Pctest* Proud to be part of @ element | MEASUREMENT REPORT (CERTIFICATION) | 🕕 LG | Approved by: Quality Manager |
|------------------------|--|---------------------------------------|------|---------------------------------|
| Test Report S/N: | Test Dates: | EUT Type: | | Daga 50 of 250 |
| 1M2002250026-02-R1.ZNF | 2/24 - 4/10/2020 | Portable Handset | | Page 59 of 250 |
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