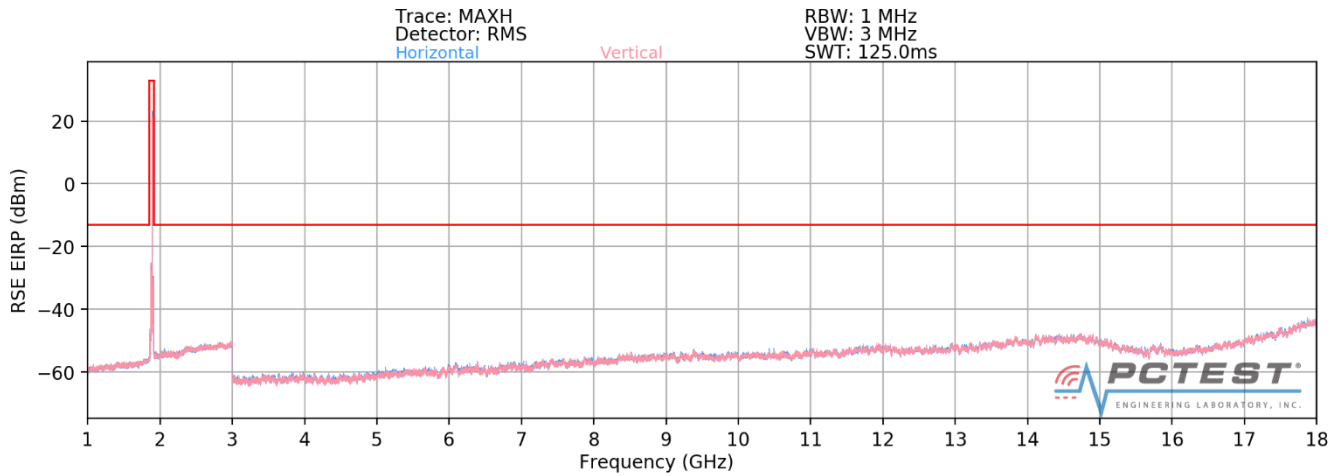
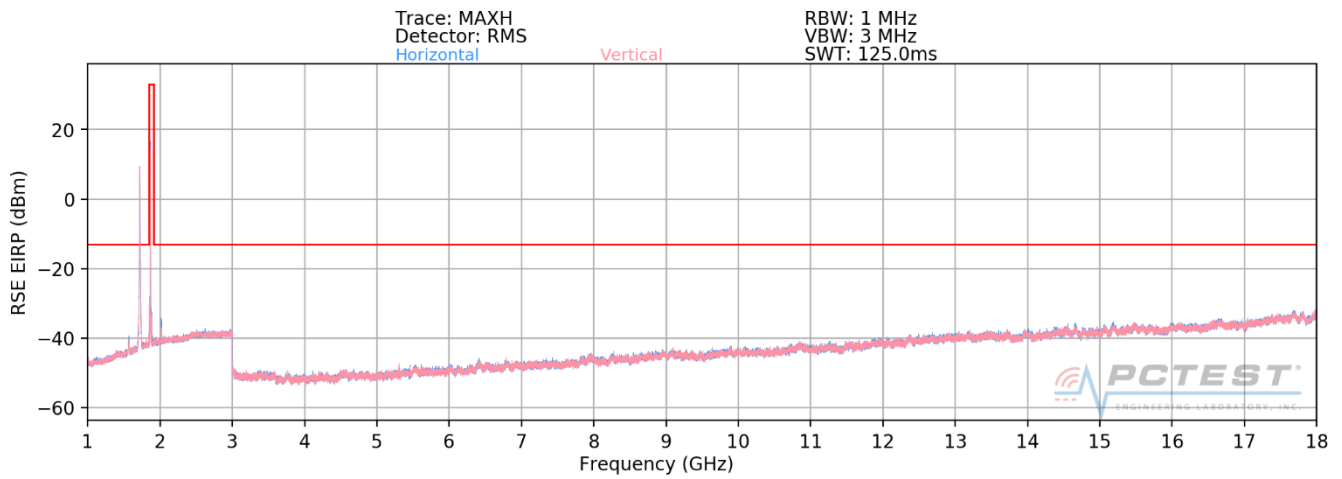


NR Band n2



Plot 7-442. Radiated Spurious Plot above 1GHz (n2 Standalone)



Plot 7-443. Radiated Spurious Plot above 1GHz (n2 ENDC - ANCHOR B66)

| | | | |
|------------------------------------------------|-----------------------------------------------|--------------------------------------|----------------------------------------|
| FCC ID: ZNFV600AM | MEASUREMENT REPORT (CERTIFICATION) | | Approved by: Quality Manager |
| Test Report S/N: 1M1912300229-03.ZNF | Test Dates: 12/30/2019 - 2/14/2020 | EUT Type: Portable Handset | Page 294 of 302 |

OPERATING FREQUENCY: 1860.00 MHz
 MODULATION SIGNAL: QPSK-DFT-s-OFDM
 BANDWIDTH: 20.0 MHz
 DISTANCE: 3 meters
 LIMIT: -13 dBm

| Frequency [MHz] | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Level at Antenna Terminals [dBm] | Substitute Antenna Gain [dBi] | Spurious Emission Level [dBm] | Margin [dB] |
|-----------------|-----------------|---------------------|----------------------------|----------------------------------|-------------------------------|-------------------------------|-------------|
| 3720.00 | V | - | - | -67.94 | 9.51 | -58.44 | -45.4 |
| 5580.00 | V | 121 | 168 | -62.53 | 10.99 | -51.55 | -38.5 |
| 7440.00 | V | - | - | -64.10 | 10.99 | -53.11 | -40.1 |

Table 7-44. Radiated Spurious Data (n2 – ENDC – ANCHOR B66– Low Channel)

OPERATING FREQUENCY: 1880.00 MHz
 MODULATION SIGNAL: QPSK-DFT-s-OFDM
 BANDWIDTH: 20.0 MHz
 DISTANCE: 3 meters
 LIMIT: -13 dBm

| Frequency [MHz] | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Level at Antenna Terminals [dBm] | Substitute Antenna Gain [dBi] | Spurious Emission Level [dBm] | Margin [dB] |
|-----------------|-----------------|---------------------|----------------------------|----------------------------------|-------------------------------|-------------------------------|-------------|
| 3760.00 | V | - | - | -67.05 | 9.37 | -57.69 | -44.7 |
| 5640.00 | V | - | - | -66.26 | 11.17 | -55.09 | -42.1 |
| 7520.00 | V | - | - | -62.62 | 11.11 | -51.50 | -38.5 |

Table 7-45. Radiated Spurious Data (n2 – ENDC – ANCHOR B66– Mid Channel)

OPERATING FREQUENCY: 1900.00 MHz
 MODULATION SIGNAL: QPSK-DFT-s-OFDM
 BANDWIDTH: 20.0 MHz
 DISTANCE: 3 meters
 LIMIT: -13 dBm

| Frequency [MHz] | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Level at Antenna Terminals [dBm] | Substitute Antenna Gain [dBi] | Spurious Emission Level [dBm] | Margin [dB] |
|-----------------|-----------------|---------------------|----------------------------|----------------------------------|-------------------------------|-------------------------------|-------------|
| 3800.00 | V | - | - | -67.54 | 9.28 | -58.26 | -45.3 |
| 5700.00 | V | - | - | -65.67 | 11.31 | -54.36 | -41.4 |
| 7600.00 | V | - | - | -62.86 | 11.24 | -51.62 | -38.6 |

Table 7-46. Radiated Spurious Data (n2 – ENDC – ANCHOR B66– High Channel)

| | | | | |
|-----------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------|---------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: ZNFV600AM |  | MEASUREMENT REPORT (CERTIFICATION) |  | Approved by: Quality Manager |
| Test Report S/N: 1M1912300229-03.ZNF | Test Dates: 12/30/2019 - 2/14/2020 | EUT Type: Portable Handset | Page 295 of 302 | |

Frequency Stability / Temperature Variatio

n5 Frequency Stability Measurements

OPERATING FREQUENCY: 836,500,000 Hz
 CHANNEL: 20525
 REFERENCE VOLTAGE: 4.18 VDC
 DEVIATION LIMIT: ± 0.00025 % or 2.5 ppm

| VOLTAGE (%) | POWER (VDC) | TEMP (°C) | FREQUENCY (Hz) | Freq. Dev. (Hz) | Deviation (%) |
|----------------|-------------|-----------|----------------|-----------------|---------------|
| 100 % | 4.18 | - 30 | 836,499,940 | -60 | -0.0000072 |
| 100 % | | - 20 | 836,500,133 | 133 | 0.0000159 |
| 100 % | | - 10 | 836,499,746 | -254 | -0.0000304 |
| 100 % | | 0 | 836,500,319 | 319 | 0.0000381 |
| 100 % | | + 10 | 836,499,828 | -172 | -0.0000206 |
| 100 % | | + 20 | 836,500,349 | 349 | 0.0000417 |
| 100 % | | + 30 | 836,499,812 | -188 | -0.0000225 |
| 100 % | | + 40 | 836,499,952 | -48 | -0.0000057 |
| 100 % | | + 50 | 836,499,848 | -152 | -0.0000182 |
| BATT. ENDPOINT | | 3.14 | + 20 | 836,500,108 | 108 |

Table 7-47. Frequency Stability Data (n5)

| | | | | |
|-----------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------|---------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: ZNFV600AM |  | MEASUREMENT REPORT (CERTIFICATION) |  | Approved by: Quality Manager |
| Test Report S/N: 1M1912300229-03.ZNF | Test Dates: 12/30/2019 - 2/14/2020 | EUT Type: Portable Handset | Page 296 of 302 | |

n5 Frequency Stability Measurements

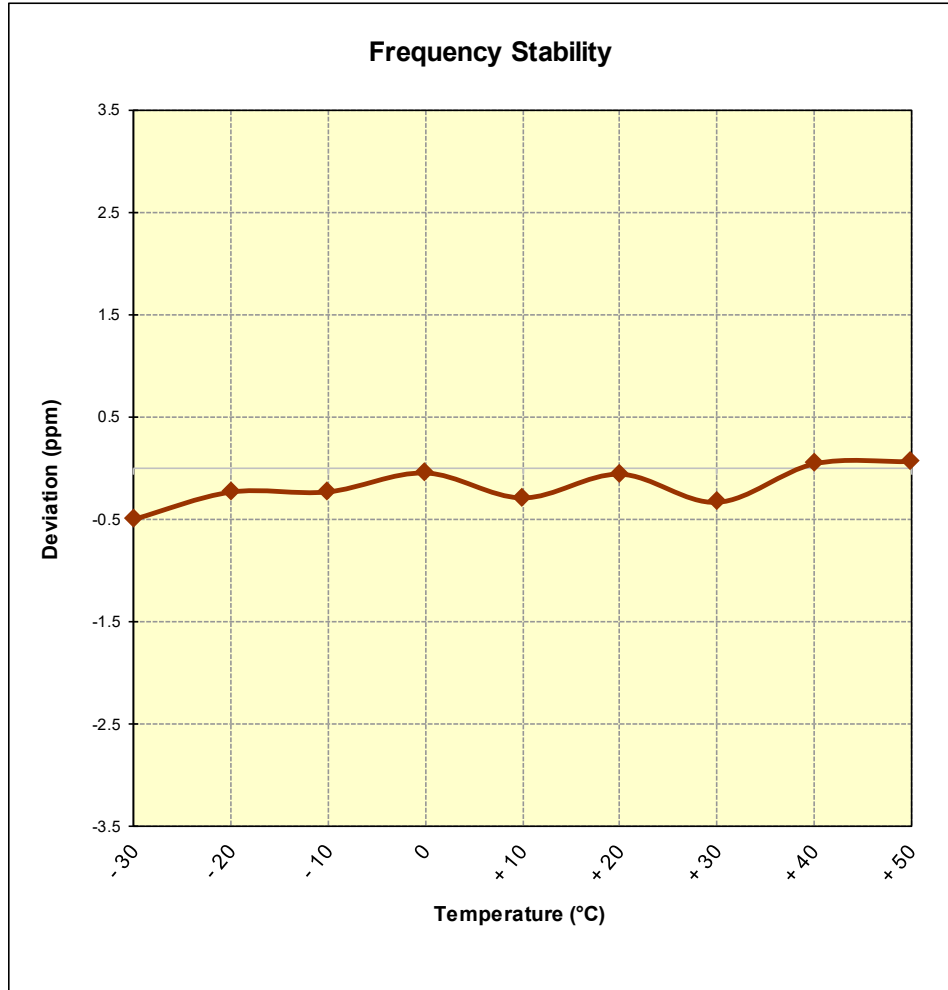


Figure 7-16. Frequency Stability Graph (n5)

| | | | | |
|------------------------------------------------|-------------------------------------------------------------------------------------|-----------------------------------------------|---------------------------------------------------------------------------------------|----------------------------------------|
| FCC ID: ZNFV600AM |  | MEASUREMENT REPORT (CERTIFICATION) |  | Approved by: Quality Manager |
| Test Report S/N: 1M1912300229-03.ZNF | Test Dates: 12/30/2019 - 2/14/2020 | EUT Type: Portable Handset | Page 297 of 302 | |

n66 Frequency Stability Measurements

OPERATING FREQUENCY: 1,745,000,000 Hz
 CHANNEL: 132322
 REFERENCE VOLTAGE: 4.18 VDC

| VOLTAGE (%) | POWER (VDC) | TEMP (°C) | FREQUENCY (Hz) | Freq. Dev. (Hz) | Deviation (%) |
|----------------|-------------|-----------|----------------|-----------------|---------------|
| 100 % | 4.18 | - 30 | 1,745,000,246 | 246 | 0.0000141 |
| 100 % | | - 20 | 1,745,000,108 | 108 | 0.0000062 |
| 100 % | | - 10 | 1,744,999,898 | -102 | -0.0000058 |
| 100 % | | 0 | 1,745,000,006 | 6 | 0.0000003 |
| 100 % | | + 10 | 1,745,000,030 | 30 | 0.0000017 |
| 100 % | | + 20 | 1,744,999,869 | -131 | -0.0000075 |
| 100 % | | + 30 | 1,744,999,830 | -170 | -0.0000097 |
| 100 % | | + 40 | 1,744,999,948 | -52 | -0.0000030 |
| 100 % | | + 50 | 1,745,000,224 | 224 | 0.0000128 |
| BATT. ENDPOINT | | 3.14 | + 20 | 1,745,000,199 | 199 |

Table 7-48. Frequency Stability Data (n66)

Note:

Based on the results of the frequency stability test at the center channel the frequency deviation results measured are very small. As such it is determined that the channels at the band edge would remain in-band when the maximum measured frequency deviation noted during the frequency stability tests is applied. Therefore the device is determined to remain operating in band over the temperature and voltage range as tested.

| | | | | |
|-----------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------|---------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: ZNFV600AM |  | MEASUREMENT REPORT (CERTIFICATION) |  | Approved by: Quality Manager |
| Test Report S/N: 1M1912300229-03.ZNF | Test Dates: 12/30/2019 - 2/14/2020 | EUT Type: Portable Handset | Page 298 of 302 | |

n66 Frequency Stability Measurements

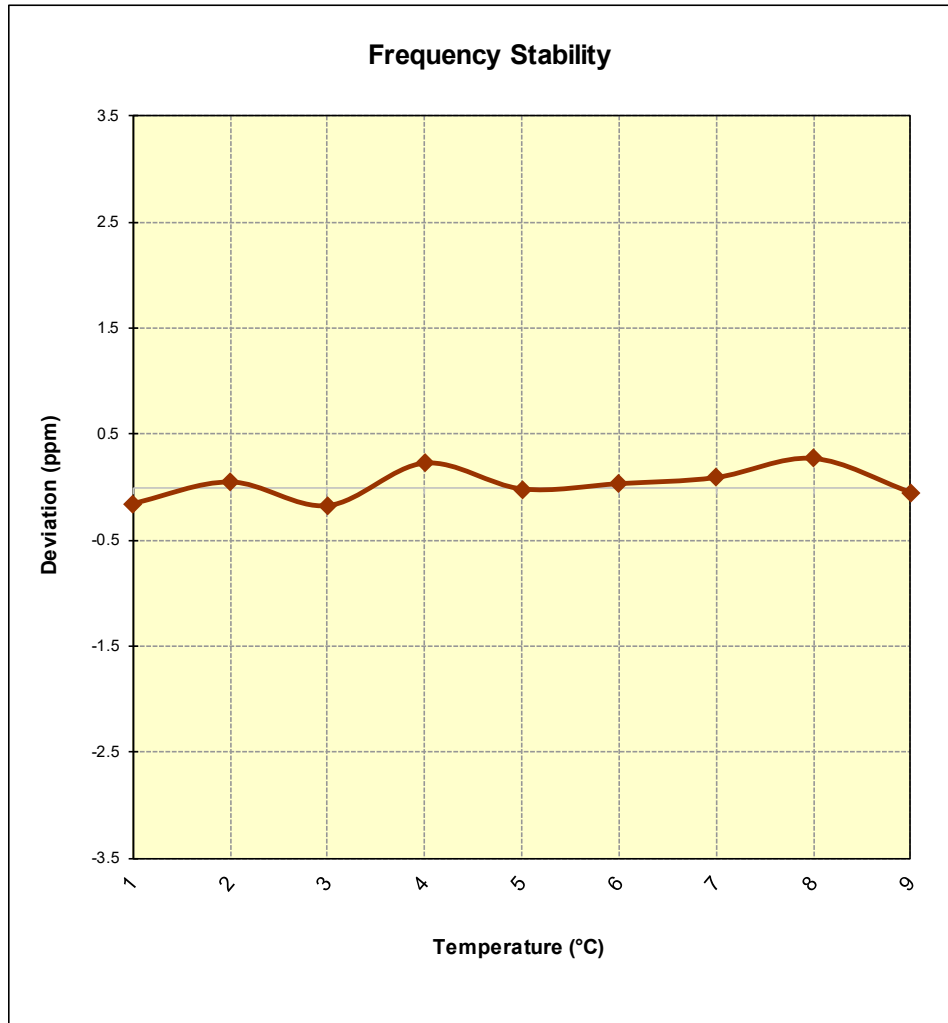


Figure 7-17. Frequency Stability Graph (n66)

| | | | |
|------------------------------------------------|-------------------------------------------------------------------------------------|-----------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|
| FCC ID: ZNFV600AM |  | MEASUREMENT REPORT (CERTIFICATION) |  Approved by: Quality Manager |
| Test Report S/N: 1M1912300229-03.ZNF | Test Dates: 12/30/2019 - 2/14/2020 | EUT Type: Portable Handset | Page 299 of 302 |

n2 Frequency Stability Measurements

OPERATING FREQUENCY: 1,880,000,000 Hz
 CHANNEL: 18900
 REFERENCE VOLTAGE: 4.18 VDC

| VOLTAGE (%) | POWER (VDC) | TEMP (°C) | FREQUENCY (Hz) | Freq. Dev. (Hz) | Deviation (%) |
|----------------|-------------|-----------|----------------|-----------------|---------------|
| 100 % | 4.18 | - 30 | 1,879,999,847 | -153 | -0.0000081 |
| 100 % | | - 20 | 1,879,999,740 | -260 | -0.0000138 |
| 100 % | | - 10 | 1,879,999,902 | -98 | -0.0000052 |
| 100 % | | 0 | 1,879,999,922 | -78 | -0.0000041 |
| 100 % | | + 10 | 1,880,000,016 | 16 | 0.0000009 |
| 100 % | | + 20 | 1,880,000,012 | 12 | 0.0000006 |
| 100 % | | + 30 | 1,879,999,588 | -412 | -0.0000219 |
| 100 % | | + 40 | 1,880,000,055 | 55 | 0.0000029 |
| 100 % | | + 50 | 1,879,999,629 | -371 | -0.0000197 |
| BATT. ENDPOINT | | 3.14 | + 20 | 1,880,000,049 | 49 |

Table 7-49. Frequency Stability Data (n2)

| | | | | |
|-----------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------|---------------------------------------------------------------------------------------|---------------------------------|
| FCC ID: ZNFV600AM |  | MEASUREMENT REPORT (CERTIFICATION) |  | Approved by: Quality Manager |
| Test Report S/N: 1M1912300229-03.ZNF | Test Dates: 12/30/2019 - 2/14/2020 | EUT Type: Portable Handset | Page 300 of 302 | |

n2 Frequency Stability Measurements

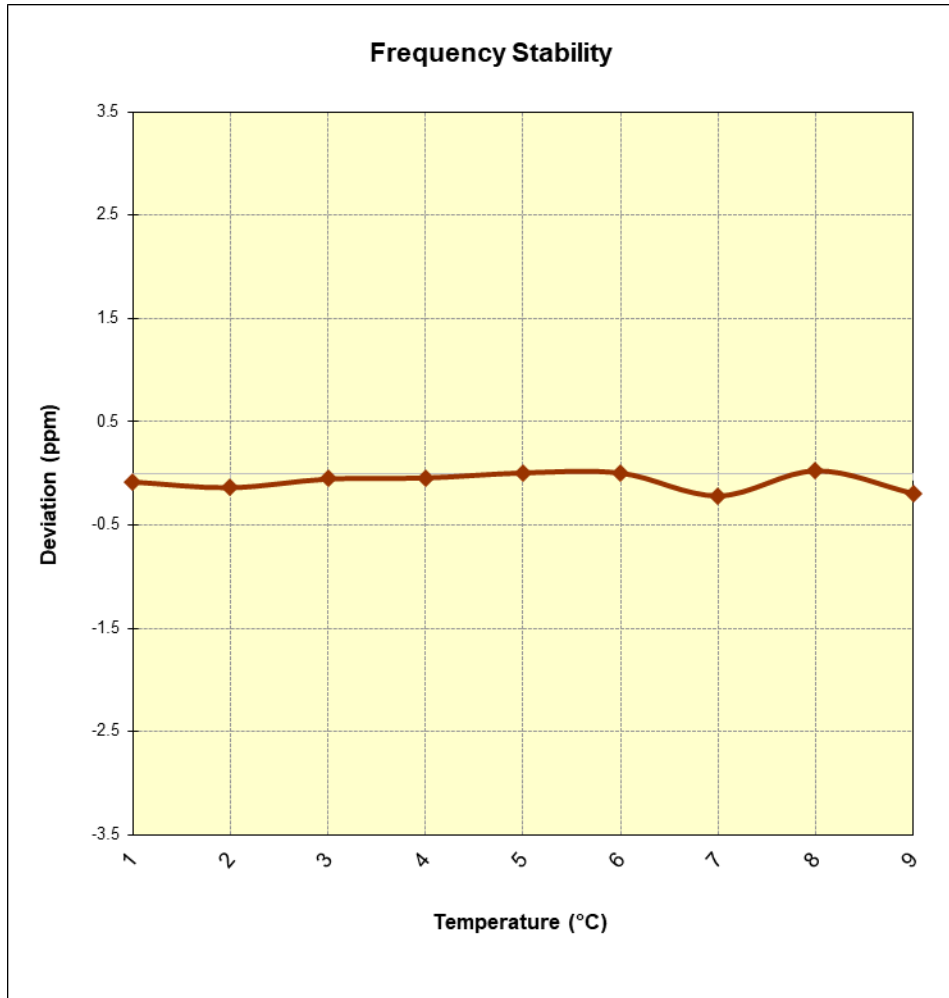


Figure 7-18. Frequency Stability Graph (n2)

| | | | |
|------------------------------------------------|-------------------------------------------------------------------------------------|-----------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|
| FCC ID: ZNFV600AM |  | MEASUREMENT REPORT (CERTIFICATION) |  Approved by: Quality Manager |
| Test Report S/N: 1M1912300229-03.ZNF | Test Dates: 12/30/2019 - 2/14/2020 | EUT Type: Portable Handset | Page 301 of 302 |

8.0 CONCLUSION

The data collected relate only to the item(s) tested and show that the **LG Portable Handset FCC ID: ZNFV600AM** complies with all the requirements of Part 22, 24, & 27 of the FCC Rules for LTE and Sub 6GHz NR operation.

| | | | |
|------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|----------------------------------------|
| FCC ID: ZNFV600AM |  MEASUREMENT REPORT (CERTIFICATION)  | | Approved by: Quality Manager |
| Test Report S/N: 1M1912300229-03.ZNF | Test Dates: 12/30/2019 - 2/14/2020 | EUT Type: Portable Handset | Page 302 of 302 |