

# 1GHz - 18GHz













| FCC ID: A3LSMF936U  |                  | MEASUREMENT REPORT<br>(CERTIFICATION) | Approved by:<br>Technical Manager |
|---------------------|------------------|---------------------------------------|-----------------------------------|
| Test Report S/N:    | Test Dates:      | EUT Type:                             | Dogo 122 of 249                   |
| 1M2204010046-01.A3L | 4/18 - 6/14/2022 | Portable Handset                      | Page 122 01 248                   |
|                     |                  |                                       | \/1.0                             |



The raw radiated spurious level is converted to field strength in dBuV/m. Then, the RSE EIRP level is calculated by applying the additional factors shown below for a test distance of 3 meter.

RSE EIRP (dBm) = Analyzer Level (dBm) + 107 + AFCL (dB/m) + 20Log(Dm) - 104.8

| Frequency<br>[MHz] | Channnel | Bandwidth<br>(MHz) | EUT Beam<br>Pol. | Modulation | Antenna<br>Polarization [H/V] | Turntable<br>Azimuth<br>[degrees] | Antenna Height<br>[cm] | Spurious<br>Emission<br>Level<br>[dBm] | Limit<br>[dBm] | Margin<br>[dB] |
|--------------------|----------|--------------------|------------------|------------|-------------------------------|-----------------------------------|------------------------|--|----------------|----------------|
| 8847.00            | Low      | 50                 | 2Tx              | QPSK       | V                             | 127                               | 123                    | -34.19                                 | -13.00         | -21.19         |
| 8872.50            | Mid      | 50                 | 2Tx              | QPSK       | V                             | 127                               | 138                    | -36.73                                 | -13.00         | -23.73         |
| 8893.00            | High     | 50                 | 2Tx              | QPSK       | V                             | 64                                | 127                    | -34.06                                 | -13.00         | -21.06         |

Notes

Table 7-66. Ant 2 - n258-R2 Radiated Spurious Emissions Table (1GHz - 18GHz)

The RSE EIRP level is taken directly from the spectrum analyzer which includes the appropriate antenna factors, and cable losses. Measurements were performed at a distance of 3 meter.

| FCC ID: A3LSMF936U  |                  | MEASUREMENT REPORT<br>(CERTIFICATION) | Approved by:<br>Technical Manager |
|---------------------|------------------|---------------------------------------|-----------------------------------|
| Test Report S/N:    | Test Dates:      | EUT Type:                             | Dage 102 of 240                   |
| 1M2204010046-01.A3L | 4/18 - 6/14/2022 | Portable Handset                      | Page 123 01 248                   |
|                     |                  |                                       | V1.0                              |



# 18GHz - 40GHz





Plot 7-160. Ant 2 - n258-R2 Radiated Spurious Plot (1CC QPSK Mid Channel 2Tx - EN-DC Anchor Band 2) \_CLOSED

| FCC ID: A3LSMF936U  |                  | MEASUREMENT REPORT<br>(CERTIFICATION) | Approved by:<br>Technical Manager |  |
|---------------------|------------------|---------------------------------------|-----------------------------------|--|
| Test Report S/N:    | Test Dates:      | EUT Type:                             | Dogo 124 of 249                   |  |
| 1M2204010046-01.A3L | 4/18 - 6/14/2022 | Portable Handset                      | Page 124 of 248                   |  |
|                     |                  |                                       | 1/1.0                             |  |









Plot 7-162. Ant 2 - n258-R2 Radiated Spurious Plot (1CC QPSK Mid Channel 2Tx - EN-DC Anchor Band 2) \_HALF



Plot 7-163. Ant 2 - n258-R2 Radiated Spurious Plot (1CC QPSK Mid Channel 2Tx - EN-DC Anchor Band 2) \_HALF

| FCC ID: A3LSMF936U  |                  | MEASUREMENT REPORT<br>(CERTIFICATION) |                 |  |  |
|---------------------|------------------|---------------------------------------|-----------------|--|--|
| Test Report S/N:    | Test Dates:      | EUT Type:                             | Dogo 105 of 049 |  |  |
| 1M2204010046-01.A3L | 4/18 - 6/14/2022 | Portable Handset                      | Page 125 01 248 |  |  |
|                     |                  |                                       | V1.0            |  |  |



The raw radiated spurious level is converted to field strength in dBuV/m. Then, the RSE EIRP level is calculated by applying the additional factors shown below for a test distance of 1 meter.

RSE EIRP (dBm) = Analyzer Level (dBm) + 107 + AFCL (dB/m) + 20Log(Dm) - 104.8

| Frequency<br>[MHz] | Channnel | Bandwidth<br>(MHz) | EUT Beam<br>Pol. | Modulation | Antenna<br>Polarization [H/V] | Turntable<br>Azimuth<br>[degrees] | Antenna Height<br>[cm] | Spurious<br>Emission<br>Level<br>[dBm] | Limit<br>[dBm] | Margin<br>[dB] |
|--------------------|----------|--------------------|------------------|------------|-------------------------------|-----------------------------------|------------------------|--|----------------|----------------|
| 23010.70           | Low      | 50                 | 2Tx              | QPSK       | V                             | 323                               | 150                    | -43.29                                 | -13.00         | -30.29         |
| 24291.20           | Low      | 50                 | 2Tx              | QPSK       | Н                             | 20                                | 150                    | -24.56                                 | -13.00         | -11.56         |
| 25344.00           | Low      | 50                 | 2Tx              | QPSK       | Н                             | 293                               | 150                    | -32.89                                 | -13.00         | -19.89         |
| 27051.00           | Low      | 50                 | 2Tx              | QPSK       | Н                             | 271                               | 150                    | -41.42                                 | -13.00         | -28.42         |
| 23383.00           | Mid      | 50                 | 2Tx              | QPSK       | V                             | 326                               | 150                    | -40.73                                 | -13.00         | -27.73         |
| 23925.00           | Mid      | 50                 | 2Tx              | QPSK       | Н                             | 306                               | 150                    | -45.06                                 | -13.00         | -32.06         |
| 24463.00           | Mid      | 50                 | 2Tx              | QPSK       | Н                             | 20                                | 150                    | -29.52                                 | -13.00         | -16.52         |
| 25537.50           | Mid      | 50                 | 2Tx              | QPSK       | Н                             | 301                               | 150                    | -34.03                                 | -13.00         | -21.03         |
| 27417.50           | Mid      | 50                 | 2Tx              | QPSK       | Н                             | 314                               | 150                    | -41.99                                 | -13.00         | -28.99         |
| 32256.00           | Mid      | 50                 | 2Tx              | QPSK       | Н                             | 316                               | 150                    | -29.95                                 | -13.00         | -16.95         |
| 23772.20           | High     | 50                 | 2Tx              | QPSK       | V                             | 206                               | 150                    | -41.73                                 | -13.00         | -28.73         |
| 24662.30           | High     | 50                 | 2Tx              | QPSK       | Н                             | 285                               | 150                    | -39.58                                 | -13.00         | -26.58         |
| 25788.80           | High     | 50                 | 2Tx              | QPSK       | Н                             | 301                               | 150                    | -34.70                                 | -13.00         | -21.70         |
| 27033.50           | High     | 50                 | 2Tx              | QPSK       | Н                             | 303                               | 150                    | -36.63                                 | -13.00         | -23.63         |

Table 7-67. Ant 2 - n258-R2 Radiated Spurious Emissions Table (18GHz - 40GHz)

#### <u>Notes</u>

The RSE EIRP level is taken directly from the spectrum analyzer which includes the appropriate antenna factors, and cable losses. Measurements were performed at a distance of 1 meter.

| FCC ID: A3LSMF936U  |                  | MEASUREMENT REPORT<br>(CERTIFICATION) | Approved by:<br>Technical Manager |
|---------------------|------------------|---------------------------------------|-----------------------------------|
| Test Report S/N:    | Test Dates:      | EUT Type:                             | Dega 100 of 040                   |
| 1M2204010046-01.A3L | 4/18 - 6/14/2022 | Portable Handset                      | Page 126 01 246                   |
|                     |                  |                                       | V1.0                              |



### 40GHz - 60GHz







Plot 7-166. Ant 2 - n258-R2 Radiated Spurious Plot (1CC QPSK Mid Channel 2Tx - EN-DC Anchor Band 2) \_HALF

| FCC ID: A3LSMF936U  |                  | MEASUREMENT REPORT<br>(CERTIFICATION) |                 |  |  |
|---------------------|------------------|---------------------------------------|-----------------|--|--|
| Test Report S/N:    | Test Dates:      | EUT Type:                             | Dogo 127 of 249 |  |  |
| 1M2204010046-01.A3L | 4/18 - 6/14/2022 | Portable Handset                      | Fage 127 01 240 |  |  |
|                     |                  |                                       | 1/1.0           |  |  |



The raw radiated spurious level is converted to field strength in dBuV/m. Then, the RSE EIRP level is calculated by applying the additional factors shown below for a test distance of 1.5 meter.

**RSE EIRP (dBm)** = Analyzer Level (dBm) + 107 + AFCL (dB/m) + 20Log(Dm) – 104.8 + Harmonic Mixer Conversion Loss [dB]

| Frequency<br>[MHz] | Channnel | Bandwidth<br>(MHz) | EUT Beam<br>Pol. | Modulation | Antenna<br>Polarization [H/V] | Turntable<br>Azimuth<br>[degrees] | Positioner<br>Azimuth<br>[degrees] | Spurious<br>Emission<br>Level<br>[dBm] | Limit<br>[dBm] | Margin<br>[dB] |
|--------------------|----------|--------------------|------------------|------------|-------------------------------|-----------------------------------|------------------------------------|--|----------------|----------------|
| 49550.16           | Low      | 50                 | 2Tx              | QPSK       | Н                             | 142                               | 131                                | -25.85                                 | -13.00         | -12.85         |
| 49999.92           | Mid      | 50                 | 2Tx              | QPSK       | Н                             | 142                               | 132                                | -25.54                                 | -13.00         | -12.54         |
| 50449.92           | High     | 50                 | 2Tx              | QPSK       | Н                             | 140                               | 131                                | -23.90                                 | -13.00         | -10.90         |

Table 7-68. Ant 2 - n258-R2 Radiated Spurious Emissions Table (40GHz - 60GHz)

#### <u>Notes</u>

The RSE EIRP level is taken directly from the spectrum analyzer which includes the appropriate antenna factors, cable losses, and harmonic mixer conversion losses. Measurements were performed at a distance of 1.5 meter.

| FCC ID: A3LSMF936U  |                  | MEASUREMENT REPORT<br>(CERTIFICATION) | Approved by:<br>Technical Manager |
|---------------------|------------------|---------------------------------------|-----------------------------------|
| Test Report S/N:    | Test Dates:      | EUT Type:                             | Dogo 100 of 040                   |
| 1M2204010046-01.A3L | 4/18 - 6/14/2022 | Portable Handset                      | Page 128 01 248                   |
|                     |                  |                                       | V1.0                              |



### 60GHz - 90GHz











Plot 7-169. Ant 2 - n258-R2 Radiated Spurious Plot (1CC QPSK Mid Channel 2Tx - EN-DC Anchor Band 2) \_HALF

| FCC ID: A3LSMF936U  |                  | MEASUREMENT REPORT<br>(CERTIFICATION) |                 |  |  |
|---------------------|------------------|---------------------------------------|-----------------|--|--|
| Test Report S/N:    | Test Dates:      | EUT Type:                             | Dogo 120 of 249 |  |  |
| 1M2204010046-01.A3L | 4/18 - 6/14/2022 | Portable Handset                      | Fage 129 01 240 |  |  |
|                     |                  |                                       | \/1.0           |  |  |



The raw radiated spurious level is converted to field strength in dBuV/m. Then, the RSE EIRP level is calculated by applying the additional factors shown below for a test distance of 1 meter.

**RSE EIRP (dBm)** = Analyzer Level (dBm) + 107 + AFCL (dB/m) + 20Log(Dm) – 104.8 + Harmonic Mixer Conversion Loss [dB]

| Frequency<br>[MHz] | Channnel | Bandwidth<br>(MHz) | EUT Beam<br>Pol. | Modulation | Antenna<br>Polarization [H/V] | Turntable<br>Azimuth<br>[degrees] | Positioner<br>Azimuth<br>[degrees] | Spurious<br>Emission<br>Level<br>[dBm] | Limit<br>[dBm] | Margin<br>[dB] |
|--------------------|----------|--------------------|------------------|------------|-------------------------------|-----------------------------------|------------------------------------|--|----------------|----------------|
| 74325.24           | Low      | 50                 | 2Tx              | QPSK       | Н                             | *                                 | *                                  | -24.29                                 | -13.00         | -11.29         |
| 74999.88           | Mid      | 50                 | 2Tx              | QPSK       | Н                             | *                                 | *                                  | -23.53                                 | -13.00         | -10.53         |
| 75674.88           | High     | 50                 | 2Tx              | QPSK       | Н                             | *                                 | *                                  | -23.19                                 | -13.00         | -10.19         |

Table 7-69. Ant 2 - n258-R2 Radiated Spurious Emissions Table (60GHz - 90GHz)

#### <u>Notes</u>

- The RSE EIRP level is taken directly from the spectrum analyzer which includes the appropriate antenna factors, cable losses, and harmonic mixer conversion losses. Measurements were performed at a distance of 1 meter.
- Rows marked with \* indicate a spurious emission level that was measured using the Spherical Grid TRP Method per KDB 842590.

| FCC ID: A3LSMF936U  |                  | MEASUREMENT REPORT<br>(CERTIFICATION) | Approved by:<br>Technical Manager |
|---------------------|------------------|---------------------------------------|-----------------------------------|
| Test Report S/N:    | Test Dates:      | EUT Type:                             | Dage 120 of 249                   |
| 1M2204010046-01.A3L | 4/18 - 6/14/2022 | Portable Handset                      | Page 130 01 248                   |
|                     |                  |                                       | V1.0                              |



### 90GHz - 100GHz











Plot 7-172. Ant 2 - n258-R2 Radiated Spurious Plot (1CC QPSK Mid Channel 2Tx - EN-DC Anchor Band 2) \_HALF

| FCC ID: A3LSMF936U  |                 | MEASUREMENT REPORT<br>(CERTIFICATION) |                 |  |  |
|---------------------|-----------------|---------------------------------------|-----------------|--|--|
| Test Report S/N:    | Test Dates:     | EUT Type:                             | Dogo 121 of 249 |  |  |
| 1M2204010046-01.A3L | Fage 131 01 240 |                                       |                 |  |  |
|                     |                 |                                       | \/1.0           |  |  |



The raw radiated spurious level is converted to field strength in dBuV/m. Then, the RSE EIRP level is calculated by applying the additional factors shown below for a test distance of 1 meter.

**RSE EIRP (dBm)** = Analyzer Level (dBm) + 107 + AFCL (dB/m) + 20Log(Dm) – 104.8 + Harmonic Mixer Conversion Loss [dB]

| Frequency<br>[MHz] | Channnel | Bandwidth<br>(MHz) | EUT Beam<br>Pol. | Modulation | Antenna<br>Polarization [H/V] | Turntable<br>Azimuth<br>[degrees] | Positioner<br>Azimuth<br>[degrees] | Spurious<br>Emission<br>Level<br>[dBm] | Limit<br>[dBm] | Margin<br>[dB] |
|--------------------|----------|--------------------|------------------|------------|-------------------------------|-----------------------------------|------------------------------------|--|----------------|----------------|
| 94790.01           | Low      | 50                 | 2Tx              | QPSK       | Н                             | -                                 | -                                  | -47.48                                 | -13.00         | -34.48         |
| 96057.45           | Mid      | 50                 | 2Tx              | QPSK       | Н                             | -                                 | -                                  | -47.87                                 | -13.00         | -34.87         |
| 99829.76           | High     | 50                 | 2Tx              | QPSK       | Н                             | -                                 | -                                  | -48.42                                 | -13.00         | -35.42         |

Table 7-70. Ant 2 - n258-R2 Radiated Spurious Emissions Table (90GHz - 100GHz)

#### <u>Notes</u>

The RSE EIRP level is taken directly from the spectrum analyzer which includes the appropriate antenna factors, cable losses, and harmonic mixer conversion losses. Measurements were performed at a distance of 1 meter.

| FCC ID: A3LSMF936U  |                  | MEASUREMENT REPORT<br>(CERTIFICATION) |                 |  |  |
|---------------------|------------------|---------------------------------------|-----------------|--|--|
| Test Report S/N:    | Test Dates:      | EUT Type:                             | Dage 122 of 249 |  |  |
| 1M2204010046-01.A3L | 4/18 - 6/14/2022 | Portable Handset                      | Page 132 01 248 |  |  |
|                     |                  |                                       | V1.0            |  |  |



# Band n261 - Ant 1

# 30MHz - 1GHz



Plot 7-173. Ant 1 - n261 Radiated Spurious Plot (1CC QPSK Mid Channel 2Tx - EN-DC Anchor Band 2)

# Spurious Emissions ERP Sample Calculation (n261)

The raw radiated spurious level is converted to field strength in dBuV/m. Then, the RSE ERP level is calculated by applying the additional factors shown below for a test distance of 3 meter.

**RSE ERP (dBm)** = Analyzer Level (dBm) + 107 + AFCL (dB/m) + 20Log(Dm) - 104.8 - 2.15 (dB)

| Frequency<br>[MHz] | Channnel | Bandwidth<br>(MHz) | EUT Beam<br>Pol. | Modulation | Antenna<br>Polarization<br>[H/V] | Turntable<br>Azimuth<br>[degrees] | Antenna<br>Height [cm] | Spurious<br>Emission<br>Level<br>[dBm] | Limit<br>[dBm] | Margin<br>[dB] |
|--------------------|----------|--------------------|------------------|------------|----------------------------------|-----------------------------------|------------------------|--|----------------|----------------|
| 546.80             | Low      | 50                 | 2Tx              | QPSK       | V                                | -                                 | -                      | -53.68                                 | -13.00         | -40.68         |
| 609.16             | Mid      | 50                 | 2Tx              | QPSK       | V                                | -                                 | -                      | -51.25                                 | -13.00         | -38.25         |
| 895.50             | High     | 50                 | 2Tx              | QPSK       | V                                | -                                 | -                      | -47.15                                 | -13.00         | -34.15         |

Table 7-71. Ant 1 - n261 Radiated Spurious Emissions Table (30MHz - 1GHz)

#### <u>Notes</u>

The RSE ERP level is taken directly from the spectrum analyzer which includes the appropriate antenna factors, and cable losses. Measurements were performed at a distance of 3 meter.

| FCC ID: A3LSMF936U  |                  | MEASUREMENT REPORT<br>(CERTIFICATION) |                 |  |  |
|---------------------|------------------|---------------------------------------|-----------------|--|--|
| Test Report S/N:    | Test Dates:      | EUT Type:                             | Dogo 122 of 249 |  |  |
| 1M2204010046-01.A3L | 4/18 - 6/14/2022 | Portable Handset                      | Fage 155 01 246 |  |  |
|                     |                  |                                       | V1.0            |  |  |



# 1GHz - 18GHz







| FCC ID: A3LSMF936U  |                  | MEASUREMENT REPORT<br>(CERTIFICATION) |                 |  |  |
|---------------------|------------------|---------------------------------------|-----------------|--|--|
| Test Report S/N:    | Test Dates:      | EUT Type:                             | Dogo 124 of 249 |  |  |
| 1M2204010046-01.A3L | 4/18 - 6/14/2022 | Fage 134 01 240                       |                 |  |  |
|                     |                  |                                       | \/1.0           |  |  |



The raw radiated spurious level is converted to field strength in dBuV/m. Then, the RSE EIRP level is calculated by applying the additional factors shown below for a test distance of 3 meter.

RSE EIRP (dBm) = Analyzer Level (dBm) + 107 + AFCL (dB/m) + 20Log(Dm) - 104.8

| Frequency<br>[MHz] | Channnel | Bandwidth<br>(MHz) | EUT Beam<br>Pol. | Modulation | Antenna<br>Polarization<br>[H/V] | Turntable<br>Azimuth<br>[degrees] | Antenna<br>Height [cm] | Spurious<br>Emission<br>Level<br>[dBm] | Limit<br>[dBm] | Margin<br>[dB] |
|--------------------|----------|--------------------|------------------|------------|----------------------------------|-----------------------------------|------------------------|--|----------------|----------------|
| 9504.60            | Low      | 50                 | 2Tx              | QPSK       | V                                | 205                               | 121                    | -40.09                                 | -13.00         | -27.09         |
| 8778.20            | Mid      | 50                 | 2Tx              | QPSK       | V                                | 197                               | 119                    | -45.26                                 | -13.00         | -32.26         |
| 8871.20            | High     | 50                 | 2Tx              | QPSK       | V                                | 200                               | 121                    | -44.13                                 | -13.00         | -31.13         |

Notes

Table 7-72. Ant 1 - n261 Radiated Spurious Emissions Table (1GHz - 18GHz)

The RSE EIRP level is taken directly from the spectrum analyzer which includes the appropriate antenna factors, and cable losses. Measurements were performed at a distance of 3 meter.

| FCC ID: A3LSMF936U  |  | MEASUREMENT REPORT<br>(CERTIFICATION) | Approved by:<br>Technical Manager |  |
|---------------------|--|---------------------------------------|-----------------------------------|--|
| Test Report S/N:    | Test Dates:  | EUT Type:                             | Dage 125 of 249                   |  |
| 1M2204010046-01.A3L | 12204010046-01.A3L 4/18 – 6/14/2022 Portable Handset |                                       |                                   |  |
|                     |  |                                       | V1.0                              |  |



# 18GHz - 27.5GHz



Plot 7-179. Ant 1 - n261 Radiated Spurious Plot (1CC QPSK Mid Channel 2Tx - EN-DC Anchor Band 2) \_HALF

| FCC ID: A3LSMF936U  |  | MEASUREMENT REPORT<br>(CERTIFICATION) |                 |  |  |
|---------------------|--|---------------------------------------|-----------------|--|--|
| Test Report S/N:    | Test Dates:                              | EUT Type:                             | Dogo 126 of 249 |  |  |
| 1M2204010046-01.A3L | 01.A3L 4/18 – 6/14/2022 Portable Handset |                                       |                 |  |  |
|                     |  |                                       | \/1.0           |  |  |



The raw radiated spurious level is converted to field strength in dBuV/m. Then, the RSE EIRP level is calculated by applying the additional factors shown below for a test distance of 1 meter.

```
RSE EIRP (dBm) = Analyzer Level (dBm) + 107 + AFCL (dB/m) + 20Log(Dm) - 104.8
```

| Frequency<br>[MHz] | Channnel | Bandwidth<br>(MHz) | EUT Beam<br>Pol. | Modulation | Antenna<br>Polarization<br>[H/V] | Turntable<br>Azimuth<br>[degrees] | Antenna<br>Height [cm] | Spurious<br>Emission<br>Level<br>[dBm] | Limit<br>[dBm] | Margin<br>[dB] |
|--------------------|----------|--------------------|------------------|------------|----------------------------------|-----------------------------------|------------------------|--|----------------|----------------|
| 24780.80           | Low      | 50                 | 2Tx              | QPSK       | V                                | 288                               | 150                    | -44.55                                 | -13.00         | -31.55         |
| 26540.00           | Low      | 50                 | 2Tx              | QPSK       | V                                | 23                                | 150                    | -31.34                                 | -13.00         | -18.34         |
| 24547.50           | Mid      | 50                 | 2Tx              | QPSK       | V                                | 287                               | 150                    | -45.92                                 | -13.00         | -32.92         |
| 27363.50           | Mid      | 50                 | 2Tx              | QPSK       | V                                | 306                               | 150                    | -41.16                                 | -13.00         | -28.16         |
| 26111.50           | High     | 50                 | 2Tx              | QPSK       | V                                | 291                               | 150                    | -45.22                                 | -13.00         | -32.22         |
| 27814.60           | High     | 50                 | 2Tx              | QPSK       | V                                | 316                               | 150                    | -40.03                                 | -13.00         | -27.03         |

Table 7-73. Ant 1 - n261 Radiated Spurious Emissions Table (18GHz - 27.5GHz)

#### <u>Notes</u>

The RSE EIRP level is taken directly from the spectrum analyzer which includes the appropriate antenna factors, and cable losses. Measurements were performed at a distance of 1 meter.

| FCC ID: A3LSMF936U  |                  | MEASUREMENT REPORT<br>(CERTIFICATION) | Approved by:<br>Technical Manager |
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| Test Report S/N:    | Test Dates:      | EUT Type:                             | Dega 127 of 249                   |
| 1M2204010046-01.A3L | 4/18 - 6/14/2022 | Portable Handset                      | Page 137 01 248                   |
|                     |                  |                                       | V1.0                              |



### 28.35GHz - 40GHz





Plot 7-182. Ant 1 - n261 Radiated Spurious Plot (1CC QPSK Mid Channel 2Tx - EN-DC Anchor Band 2) \_HALF

| FCC ID: A3LSMF936U  |   | MEASUREMENT REPORT<br>(CERTIFICATION) |                 |  |  |
|---------------------|---|---------------------------------------|-----------------|--|--|
| Test Report S/N:    | Test Dates:   | EUT Type:                             | Dogo 129 of 249 |  |  |
| 1M2204010046-01.A3L | 2204010046-01.A3L 4/18 – 6/14/2022 Portable Handset |                                       |                 |  |  |
|                     |   |                                       | 1/1.0           |  |  |



The raw radiated spurious level is converted to field strength in dBuV/m. Then, the RSE EIRP level is calculated by applying the additional factors shown below for a test distance of 1 meter.

```
RSE EIRP (dBm) = Analyzer Level (dBm) + 107 + AFCL (dB/m) + 20Log(Dm) - 104.8
```

| Frequency<br>[MHz] | Channnel | Bandwidth<br>(MHz) | EUT Beam<br>Pol. | Modulation | Antenna<br>Polarization<br>[H/V] | Turntable<br>Azimuth<br>[degrees] | Antenna<br>Height [cm] | Spurious<br>Emission<br>Level<br>[dBm] | Limit<br>[dBm] | Margin<br>[dB] |
|--------------------|----------|--------------------|------------------|------------|----------------------------------|-----------------------------------|------------------------|--|----------------|----------------|
| 28088.90           | Low      | 50                 | 2Tx              | QPSK       | Н                                | 15                                | 150                    | -38.18                                 | -13.00         | -25.18         |
| 28514.60           | Low      | 50                 | 2Tx              | QPSK       | V                                | 304                               | 150                    | -44.40                                 | -13.00         | -31.40         |
| 28489.75           | Mid      | 50                 | 2Tx              | QPSK       | Н                                | 35                                | 150                    | -40.45                                 | -13.00         | -27.45         |
| 29518.50           | Mid      | 50                 | 2Tx              | QPSK       | V                                | 337                               | 150                    | -38.76                                 | -13.00         | -25.76         |
| 28838.64           | High     | 50                 | 2Tx              | QPSK       | Н                                | 32                                | 150                    | -42.37                                 | -13.00         | -29.37         |
| 30040.40           | High     | 50                 | 2Tx              | QPSK       | V                                | 340                               | 150                    | -40.69                                 | -13.00         | -27.69         |

Table 7-74. Ant 1 - n261 Radiated Spurious Emissions Table (28.35GHz - 40GHz)

#### <u>Notes</u>

The RSE EIRP level is taken directly from the spectrum analyzer which includes the appropriate antenna factors, and cable losses. Measurements were performed at a distance of 1 meter

| FCC ID: A3LSMF936U  |                  | MEASUREMENT REPORT<br>(CERTIFICATION) | Approved by:<br>Technical Manager |
|---------------------|------------------|---------------------------------------|-----------------------------------|
| Test Report S/N:    | Test Dates:      | EUT Type:                             | Dogo 120 of 249                   |
| 1M2204010046-01.A3L | 4/18 - 6/14/2022 | Portable Handset                      | Faye 139 01 248                   |
|                     |                  |                                       | V1.0                              |



# 40GHz - 60GHz



Plot 7-185. Ant 1 - n261 Radiated Spurious Plot (1CC QPSK Mid Channel 2Tx - EN-DC Anchor Band 2) \_HALF

| FCC ID: A3LSMF936U  |                  | MEASUREMENT REPORT<br>(CERTIFICATION) |                 |  |  |
|---------------------|------------------|---------------------------------------|-----------------|--|--|
| Test Report S/N:    | Test Dates:      | EUT Type:                             | Dogo 140 of 249 |  |  |
| 1M2204010046-01.A3L | 4/18 - 6/14/2022 | Portable Handset                      | Fage 140 01 240 |  |  |
|                     |                  |                                       | 1/4.0           |  |  |



The raw radiated spurious level is converted to field strength in dBuV/m. Then, the RSE EIRP level is calculated by applying the additional factors shown below for a test distance of 1.5 meter.

**RSE EIRP (dBm)** = Analyzer Level (dBm) + 107 + AFCL (dB/m) + 20Log(Dm) – 104.8 + Harmonic Mixer Conversion Loss [dB]

| Frequency<br>[MHz] | Channnel | Bandwidth<br>(MHz) | EUT Beam<br>Pol. | Modulation | Antenna<br>Polarization<br>[H/V] | Turntable<br>Azimuth<br>[degrees] | Positioner<br>Azimuth<br>[degrees] | Spurious<br>Emission<br>Level<br>[dBm] | Limit<br>[dBm] | Margin<br>[dB] |
|--------------------|----------|--------------------|------------------|------------|----------------------------------|-----------------------------------|------------------------------------|--|----------------|----------------|
| 55050.00           | Low      | 50                 | 2Tx              | QPSK       | Н                                | 218                               | 258                                | -25.15                                 | -13.00         | -12.15         |
| 57687.19           | Low      | 50                 | 2Tx              | QPSK       | Н                                | 218                               | 258                                | -45.82                                 | -13.00         | -32.82         |
| 55849.92           | Mid      | 50                 | 2Tx              | QPSK       | Н                                | 218                               | 253                                | -23.92                                 | -13.00         | -10.92         |
| 58485.79           | Mid      | 50                 | 2Tx              | QPSK       | Н                                | 218                               | 253                                | -46.29                                 | -13.00         | -33.29         |
| 56649.84           | High     | 50                 | 2Tx              | QPSK       | Н                                | 221                               | 258                                | -22.00                                 | -13.00         | -9.00          |
| 59288.90           | High     | 50                 | 2Tx              | QPSK       | Н                                | 221                               | 258                                | -45.72                                 | -13.00         | -32.72         |

Table 7-75. Ant 1 - n261 Radiated Spurious Emissions Table (40GHz - 60GHz)

#### <u>Notes</u>

The RSE EIRP level is taken directly from the spectrum analyzer which includes the appropriate antenna factors, cable losses, and harmonic mixer conversion losses. Measurements were performed at a distance of 1.5 meter.

| FCC ID: A3LSMF936U  |                  | MEASUREMENT REPORT<br>(CERTIFICATION) | Approved by:<br>Technical Manager |
|---------------------|------------------|---------------------------------------|-----------------------------------|
| Test Report S/N:    | Test Dates:      | EUT Type:                             | Dogo 111 of 210                   |
| 1M2204010046-01.A3L | 4/18 - 6/14/2022 | Portable Handset                      | Page 141 01 248                   |
|                     |                  |                                       | V1.0                              |



# 60GHz - 90GHz





Plot 7-188. Ant 1 - n261 Radiated Spurious Plot (1CC QPSK Mid Channel 2Tx - EN-DC Anchor Band 2) \_HALF

| FCC ID: A3LSMF936U  |  | MEASUREMENT REPORT<br>(CERTIFICATION) |                 |  |  |
|---------------------|--|---------------------------------------|-----------------|--|--|
| Test Report S/N:    | Test Dates:                                  | EUT Type:                             | Dogo 142 of 249 |  |  |
| 1M2204010046-01.A3L | 046-01.A3L 4/18 - 6/14/2022 Portable Handset |                                       |                 |  |  |
|                     |  |                                       | 1/1.0           |  |  |



The raw radiated spurious level is converted to field strength in dBuV/m. Then, the RSE EIRP level is calculated by applying the additional factors shown below for a test distance of 1 meter.

**RSE EIRP (dBm)** = Analyzer Level (dBm) + 107 + AFCL (dB/m) + 20Log(Dm) – 104.8 + Harmonic Mixer Conversion Loss [dB]

| Frequency<br>[MHz] | Channnel | Bandwidth<br>(MHz) | EUT Beam<br>Pol. | Modulation | Antenna<br>Polarization<br>[H/V] | Turntable<br>Azimuth<br>[degrees] | Positioner<br>Azimuth<br>[degrees] | Spurious<br>Emission<br>Level<br>[dBm] | Limit<br>[dBm] | Margin<br>[dB] |
|--------------------|----------|--------------------|------------------|------------|----------------------------------|-----------------------------------|------------------------------------|--|----------------|----------------|
| 82575.00           | Low      | 50                 | 2Tx              | QPSK       | Н                                | 54                                | 248                                | -25.92                                 | -13.00         | -12.92         |
| 83774.88           | Mid      | 50                 | 2Tx              | QPSK       | н                                | 59                                | 249                                | -22.78                                 | -13.00         | -9.78          |
| 84974.76           | High     | 50                 | 2Tx              | QPSK       | Н                                | 56                                | 246                                | -23.75                                 | -13.00         | -10.75         |

Table 7-76. Ant 1 - n261 Radiated Spurious Emissions Table (60GHz - 90GHz)

#### <u>Notes</u>

The RSE EIRP level is taken directly from the spectrum analyzer which includes the appropriate antenna factors, cable losses, and harmonic mixer conversion losses. Measurements were performed at a distance of 1 meter.

| FCC ID: A3LSMF936U  |                  | MEASUREMENT REPORT<br>(CERTIFICATION) |                 |  |  |
|---------------------|------------------|---------------------------------------|-----------------|--|--|
| Test Report S/N:    | Test Dates:      | EUT Type:                             | Dage 142 of 249 |  |  |
| 1M2204010046-01.A3L | 4/18 - 6/14/2022 | Portable Handset                      | Page 143 01 248 |  |  |
|                     |                  |                                       | V1.0            |  |  |



### 90GHz - 100GHz



Plot 7-191. Ant 1 - n261 Radiated Spurious Plot (1CC QPSK Mid Channel 2Tx - EN-DC Anchor Band 2) \_HALF

| FCC ID: A3LSMF936U  |   | MEASUREMENT REPORT<br>(CERTIFICATION) |                 |  |  |
|---------------------|---|---------------------------------------|-----------------|--|--|
| Test Report S/N:    | Test Dates:                             | EUT Type:                             | Dogo 144 of 249 |  |  |
| 1M2204010046-01.A3L | 1.A3L 4/18 – 6/14/2022 Portable Handset |                                       |                 |  |  |
|                     |   |                                       | \/1.0           |  |  |



The raw radiated spurious level is converted to field strength in dBuV/m. Then, the RSE EIRP level is calculated by applying the additional factors shown below for a test distance of 1 meter.

**RSE EIRP (dBm)** = Analyzer Level (dBm) + 107 + AFCL (dB/m) + 20Log(Dm) – 104.8 + Harmonic Mixer Conversion Loss [dB]

| Frequency<br>[MHz] | Channnel | Bandwidth<br>(MHz) | EUT Beam<br>Pol. | Modulation | Antenna<br>Polarization<br>[H/V] | Turntable<br>Azimuth<br>[degrees] | Positioner<br>Azimuth<br>[degrees] | Spurious<br>Emission<br>Level<br>[dBm] | Limit<br>[dBm] | Margin<br>[dB] |
|--------------------|----------|--------------------|------------------|------------|----------------------------------|-----------------------------------|------------------------------------|--|----------------|----------------|
| 93855.00           | Low      | 50                 | 2Tx              | QPSK       | Н                                | -                                 | -                                  | -48.12                                 | -13.00         | -35.12         |
| 95054.88           | Mid      | 50                 | 2Tx              | QPSK       | н                                | -                                 | -                                  | -47.92                                 | -13.00         | -34.92         |
| 96254.76           | High     | 50                 | 2Tx              | QPSK       | Н                                | -                                 | -                                  | -47.98                                 | -13.00         | -34.98         |

Table 7-77. Ant 1 - n261 Radiated Spurious Emissions Table (90GHz - 100GHz)

#### <u>Notes</u>

The RSE EIRP level is taken directly from the spectrum analyzer which includes the appropriate antenna factors, cable losses, and harmonic mixer conversion losses. Measurements were performed at a distance of 1 meter.

| FCC ID: A3LSMF936U  |                  | MEASUREMENT REPORT<br>(CERTIFICATION) |                 |  |  |
|---------------------|------------------|---------------------------------------|-----------------|--|--|
| Test Report S/N:    | Test Dates:      | EUT Type:                             | Dogo 145 of 249 |  |  |
| 1M2204010046-01.A3L | 4/18 - 6/14/2022 | Portable Handset                      | Page 145 01 248 |  |  |
|                     |                  |                                       | V1.0            |  |  |



# Band n261 - Ant 2

### 30MHz - 1GHz



Plot 7-192. Ant 2 - n261 Radiated Spurious Plot (1CC QPSK Mid Channel 2Tx - EN-DC Anchor Band 2)

### Spurious Emissions ERP Sample Calculation (n261)

The raw radiated spurious level is converted to field strength in dBuV/m. Then, the RSE ERP level is calculated by applying the additional factors shown below for a test distance of 3 meter.

**RSE ERP (dBm)** = Analyzer Level (dBm) + 107 + AFCL (dB/m) + 20Log(Dm) - 104.8 - 2.15 (dB)

| Frequency<br>[MHz] | Channnel | Bandwidth<br>(MHz) | EUT Beam<br>Pol. | Modulation | Antenna<br>Polarization<br>[H/V] | Turntable<br>Azimuth<br>[degrees] | Antenna<br>Height [cm] | Spurious<br>Emission<br>Level<br>[dBm] | Limit<br>[dBm] | Margin<br>[dB] |
|--------------------|----------|--------------------|------------------|------------|----------------------------------|-----------------------------------|------------------------|--|----------------|----------------|
| 191.10             | Low      | 50                 | 2Tx              | QPSK       | Н                                | -                                 | -                      | -61.83                                 | -13.00         | -48.83         |
| 600.10             | Mid      | 50                 | 2Tx              | QPSK       | н                                | -                                 | -                      | -51.22                                 | -13.00         | -38.22         |
| 911.06             | High     | 50                 | 2Tx              | QPSK       | Н                                | -                                 | -                      | -46.81                                 | -13.00         | -33.81         |

Table 7-78. Ant 2 - n261 Radiated Spurious Emissions Table (30MHz - 1GHz)

#### <u>Notes</u>

The RSE ERP level is taken directly from the spectrum analyzer which includes the appropriate antenna factors, and cable losses. Measurements were performed at a distance of 3 meter.

| FCC ID: A3LSMF936U  |                  | MEASUREMENT REPORT<br>(CERTIFICATION) |                 |  |  |
|---------------------|------------------|---------------------------------------|-----------------|--|--|
| Test Report S/N:    | Test Dates:      | EUT Type:                             | Dogo 146 of 249 |  |  |
| 1M2204010046-01.A3L | 4/18 - 6/14/2022 | Portable Handset                      | Fage 140 01 240 |  |  |
|                     |                  |                                       | V1.0            |  |  |



# 1GHz - 18GHz





Plot 7-195. Ant 2 - n261 Radiated Spurious Plot (1CC QPSK Low Channel 2Tx - EN-DC Anchor Band 2) \_HALF

| FCC ID: A3LSMF936U  |                  | MEASUREMENT REPORT<br>(CERTIFICATION) |                 |  |
|---------------------|------------------|---------------------------------------|-----------------|--|
| Test Report S/N:    | Test Dates:      | EUT Type:                             | Dogo 147 of 249 |  |
| 1M2204010046-01.A3L | 4/18 - 6/14/2022 | 4/2022 Portable Handset               |                 |  |
|                     |                  |                                       | 1/4.0           |  |



The raw radiated spurious level is converted to field strength in dBuV/m. Then, the RSE EIRP level is calculated by applying the additional factors shown below for a test distance of 3 meter.

RSE EIRP (dBm) = Analyzer Level (dBm) + 107 + AFCL (dB/m) + 20Log(Dm) - 104.8

| Frequency<br>[MHz] | Channnel | Bandwidth<br>(MHz) | EUT Beam<br>Pol. | Modulation | Antenna<br>Polarization<br>[H/V] | Turntable<br>Azimuth<br>[degrees] | Antenna<br>Height [cm] | Spurious<br>Emission<br>Level<br>[dBm] | Limit<br>[dBm] | Margin<br>[dB] |
|--------------------|----------|--------------------|------------------|------------|----------------------------------|-----------------------------------|------------------------|--|----------------|----------------|
| 9504.60            | Low      | 50                 | 2Tx              | QPSK       | Н                                | 34                                | 397                    | -40.02                                 | -13.00         | -27.02         |
| 8778.20            | Mid      | 50                 | 2Tx              | QPSK       | Н                                | 343                               | 274                    | -40.94                                 | -13.00         | -27.94         |
| 8871.20            | High     | 50                 | 2Tx              | QPSK       | Н                                | 6                                 | 254                    | -40.85                                 | -13.00         | -27.85         |

Notes

Table 7-79. Ant 2 - n261 Radiated Spurious Emissions Table (1GHz - 18GHz)

The RSE EIRP level is taken directly from the spectrum analyzer which includes the appropriate antenna factors, and cable losses. Measurements were performed at a distance of 3 meter.

| FCC ID: A3LSMF936U  |                  | MEASUREMENT REPORT<br>(CERTIFICATION) |                 |  |
|---------------------|------------------|---------------------------------------|-----------------|--|
| Test Report S/N:    | Test Dates:      | EUT Type:                             | Dogo 149 of 249 |  |
| 1M2204010046-01.A3L | 4/18 - 6/14/2022 | /18 – 6/14/2022 Portable Handset      |                 |  |
|                     |                  |                                       | V1.0            |  |



# 18GHz - 27.5GHz



Plot 7-198. Ant 2 - n261 Radiated Spurious Plot (1CC QPSK Mid Channel 2Tx - EN-DC Anchor Band 2) \_HALF

| FCC ID: A3LSMF936U                                    |             | MEASUREMENT REPORT<br>(CERTIFICATION) |                 |  |
|---|-------------|---------------------------------------|-----------------|--|
| Test Report S/N:                                      | Test Dates: | EUT Type:                             | Dage 140 of 249 |  |
| 1M2204010046-01.A3L 4/18 – 6/14/2022 Portable Handset |             | Portable Handset                      | Page 149 01 248 |  |
|   |             |                                       | \/1.0           |  |



The raw radiated spurious level is converted to field strength in dBuV/m. Then, the RSE EIRP level is calculated by applying the additional factors shown below for a test distance of 1 meter.

```
RSE EIRP (dBm) = Analyzer Level (dBm) + 107 + AFCL (dB/m) + 20Log(Dm) - 104.8
```

| Frequency<br>[MHz] | Channnel | Bandwidth<br>(MHz) | EUT Beam<br>Pol. | Modulation | Antenna<br>Polarization<br>[H/V] | Turntable<br>Azimuth<br>[degrees] | Antenna<br>Height [cm] | Spurious<br>Emission<br>Level<br>[dBm] | Limit<br>[dBm] | Margin<br>[dB] |
|--------------------|----------|--------------------|------------------|------------|----------------------------------|-----------------------------------|------------------------|--|----------------|----------------|
| 25896.50           | Low      | 50                 | 2Tx              | QPSK       | V                                | 14                                | 150                    | -38.11                                 | -13.00         | -25.11         |
| 26540.00           | Low      | 50                 | 2Tx              | QPSK       | Н                                | 277                               | 150                    | -39.64                                 | -13.00         | -26.64         |
| 25907.20           | Mid      | 50                 | 2Tx              | QPSK       | V                                | 298                               | 150                    | -43.15                                 | -13.00         | -30.15         |
| 27363.50           | Mid      | 50                 | 2Tx              | QPSK       | Н                                | 280                               | 150                    | -34.89                                 | -13.00         | -21.89         |
| 26111.50           | High     | 50                 | 2Tx              | QPSK       | V                                | 223                               | 150                    | -44.65                                 | -13.00         | -31.65         |
| 27814.60           | High     | 50                 | 2Tx              | QPSK       | Н                                | 242                               | 150                    | -35.92                                 | -13.00         | -22.92         |

Table 7-80. Ant 2 - n261 Radiated Spurious Emissions Table (18GHz - 27.5GHz)

#### <u>Notes</u>

The RSE EIRP level is taken directly from the spectrum analyzer which includes the appropriate antenna factors, and cable losses. Measurements were performed at a distance of 1 meter.

| FCC ID: A3LSMF936U  |                  | MEASUREMENT REPORT<br>(CERTIFICATION) |                 |  |
|---------------------|------------------|---------------------------------------|-----------------|--|
| Test Report S/N:    | Test Dates:      | EUT Type:                             | Dega 150 of 249 |  |
| 1M2204010046-01.A3L | 4/18 - 6/14/2022 | Portable Handset                      | Page 150 01 248 |  |
|                     |                  |                                       | V1.0            |  |



### 28.35GHz - 40GHz





Plot 7-201. Ant 2 - n261 Radiated Spurious Plot (1CC QPSK Mid Channel 2Tx - EN-DC Anchor Band 2) \_HALF

| FCC ID: A3LSMF936U  |                  | MEASUREMENT REPORT<br>(CERTIFICATION) |                 |  |
|---------------------|------------------|---------------------------------------|-----------------|--|
| Test Report S/N:    | Test Dates:      | EUT Type:                             | Dogo 151 of 249 |  |
| 1M2204010046-01.A3L | 4/18 - 6/14/2022 | Portable Handset                      | Fage 151 01 246 |  |
|                     |                  |                                       | 1/4.0           |  |



The raw radiated spurious level is converted to field strength in dBuV/m. Then, the RSE EIRP level is calculated by applying the additional factors shown below for a test distance of 1 meter.

```
RSE EIRP (dBm) = Analyzer Level (dBm) + 107 + AFCL (dB/m) + 20Log(Dm) - 104.8
```

| Frequency<br>[MHz] | Channnel | Bandwidth<br>(MHz) | EUT Beam<br>Pol. | Modulation | Antenna<br>Polarization<br>[H/V] | Turntable<br>Azimuth<br>[degrees] | Antenna<br>Height [cm] | Spurious<br>Emission<br>Level<br>[dBm] | Limit<br>[dBm] | Margin<br>[dB] |
|--------------------|----------|--------------------|------------------|------------|----------------------------------|-----------------------------------|------------------------|--|----------------|----------------|
| 28088.90           | Low      | 50                 | 2Tx              | QPSK       | Н                                | 235                               | 150                    | -37.12                                 | -13.00         | -24.12         |
| 28514.60           | Low      | 50                 | 2Tx              | QPSK       | Н                                | 23                                | 150                    | -48.91                                 | -13.00         | -35.91         |
| 28488.50           | Mid      | 50                 | 2Tx              | QPSK       | Н                                | 343                               | 150                    | -37.41                                 | -13.00         | -24.41         |
| 29520.00           | Mid      | 50                 | 2Tx              | QPSK       | Н                                | 238                               | 150                    | -38.96                                 | -13.00         | -25.96         |
| 28837.00           | High     | 50                 | 2Tx              | QPSK       | Н                                | 235                               | 150                    | -37.35                                 | -13.00         | -24.35         |
| 30040.40           | High     | 50                 | 2Tx              | QPSK       | Н                                | 238                               | 150                    | -37.36                                 | -13.00         | -24.36         |

Table 7-81. Ant 2 - n261 Radiated Spurious Emissions Table (28.35GHz - 40GHz)

#### <u>Notes</u>

The RSE EIRP level is taken directly from the spectrum analyzer which includes the appropriate antenna factors, and cable losses. Measurements were performed at a distance of 1 meter

| FCC ID: A3LSMF936U  |                  | MEASUREMENT REPORT<br>(CERTIFICATION) |                 |  |  |
|---------------------|------------------|---------------------------------------|-----------------|--|--|
| Test Report S/N:    | Test Dates:      | EUT Type:                             | Dogo 152 of 249 |  |  |
| 1M2204010046-01.A3L | 4/18 - 6/14/2022 | Portable Handset                      | Page 152 01 246 |  |  |
|                     |                  |                                       | V1.0            |  |  |



### 40GHz - 60GHz



Plot 7-204. Ant 2 - n261 Radiated Spurious Plot (1CC QPSK Mid Channel 2Tx - EN-DC Anchor Band 2) \_HALF

| FCC ID: A3LSMF936U                                    |             | MEASUREMENT REPORT<br>(CERTIFICATION) |                 |  |
|---|-------------|---------------------------------------|-----------------|--|
| Test Report S/N:                                      | Test Dates: | EUT Type:                             | Dogo 152 of 249 |  |
| 1M2204010046-01.A3L 4/18 – 6/14/2022 Portable Handset |             | Portable Handset                      | Page 153 01 248 |  |
|   |             |                                       | \/1.0           |  |



The raw radiated spurious level is converted to field strength in dBuV/m. Then, the RSE EIRP level is calculated by applying the additional factors shown below for a test distance of 1.5 meter.

**RSE EIRP (dBm)** = Analyzer Level (dBm) + 107 + AFCL (dB/m) + 20Log(Dm) – 104.8 + Harmonic Mixer Conversion Loss [dB]

| Frequency<br>[MHz] | Channnel | Bandwidth<br>(MHz) | EUT Beam<br>Pol. | Modulation | Antenna<br>Polarization<br>[H/V] | Turntable<br>Azimuth<br>[degrees] | Positioner<br>Azimuth<br>[degrees] | Spurious<br>Emission<br>Level<br>[dBm] | Limit<br>[dBm] | Margin<br>[dB] |
|--------------------|----------|--------------------|------------------|------------|----------------------------------|-----------------------------------|------------------------------------|--|----------------|----------------|
| 55050.00           | Low      | 50                 | 2Tx              | QPSK       | Н                                | 147                               | 209                                | -27.53                                 | -13.00         | -14.53         |
| 57687.19           | Low      | 50                 | 2Tx              | QPSK       | Н                                | 147                               | 209                                | -45.49                                 | -13.00         | -32.49         |
| 55849.92           | Mid      | 50                 | 2Tx              | QPSK       | Н                                | 148                               | 215                                | -27.50                                 | -13.00         | -14.50         |
| 58485.79           | Mid      | 50                 | 2Tx              | QPSK       | Н                                | 148                               | 215                                | -46.20                                 | -13.00         | -33.20         |
| 56649.84           | High     | 50                 | 2Tx              | QPSK       | Н                                | 151                               | 212                                | -28.20                                 | -13.00         | -15.20         |
| 59288.90           | High     | 50                 | 2Tx              | QPSK       | Н                                | 151                               | 212                                | -45.37                                 | -13.00         | -32.37         |

Table 7-82. Ant 2 - n261 Radiated Spurious Emissions Table (40GHz - 60GHz)

#### <u>Notes</u>

The RSE EIRP level is taken directly from the spectrum analyzer which includes the appropriate antenna factors, cable losses, and harmonic mixer conversion losses. Measurements were performed at a distance of 1.5 meter.

| FCC ID: A3LSMF936U  |                  | MEASUREMENT REPORT<br>(CERTIFICATION) | Approved by:<br>Technical Manager |
|---------------------|------------------|---------------------------------------|-----------------------------------|
| Test Report S/N:    | Test Dates:      | EUT Type:                             | Dogo 154 of 249                   |
| 1M2204010046-01.A3L | 4/18 - 6/14/2022 | Portable Handset                      | Page 154 01 248                   |
|                     |                  |                                       | V1.0                              |



### 60GHz - 90GHz

-40 -50



| FCC ID: A3LSMF936U  |                  | MEASUREMENT REPORT<br>(CERTIFICATION) | Approved by:<br>Technical Manager |  |
|---------------------|------------------|---------------------------------------|-----------------------------------|--|
| Test Report S/N:    | Test Dates:      | EUT Type:                             | Dogo 155 of 249                   |  |
| 1M2204010046-01.A3L | 4/18 - 6/14/2022 | Portable Handset                      | Page 155 01 248                   |  |
|                     |                  |                                       | V1.0                              |  |

Frequency (MHz) Plot 7-207. Ant 2 - n261 Radiated Spurious Plot (1CC QPSK Mid Channel 2Tx - EN-DC Anchor Band 2) \_HALF



The raw radiated spurious level is converted to field strength in dBuV/m. Then, the RSE EIRP level is calculated by applying the additional factors shown below for a test distance of 1 meter.

**RSE EIRP (dBm)** = Analyzer Level (dBm) + 107 + AFCL (dB/m) + 20Log(Dm) – 104.8 + Harmonic Mixer Conversion Loss [dB]

| Frequency<br>[MHz] | Channnel | Bandwidth<br>(MHz) | EUT Beam<br>Pol. | Modulation | Antenna<br>Polarization<br>[H/V] | Turntable<br>Azimuth<br>[degrees] | Positioner<br>Azimuth<br>[degrees] | Spurious<br>Emission<br>Level<br>[dBm] | Limit<br>[dBm] | Margin<br>[dB] |
|--------------------|----------|--------------------|------------------|------------|----------------------------------|-----------------------------------|------------------------------------|--|----------------|----------------|
| 82575.00           | Low      | 50                 | 2Tx              | QPSK       | Н                                | 203                               | 321                                | -24.05                                 | -13.00         | -11.05         |
| 83774.88           | Mid      | 50                 | 2Tx              | QPSK       | Н                                | 203                               | 316                                | -22.41                                 | -13.00         | -9.41          |
| 84974.76           | High     | 50                 | 2Tx              | QPSK       | Н                                | 201                               | 315                                | -22.08                                 | -13.00         | -9.08          |

#### Notes

Table 7-83. Ant 2 - n261 Radiated Spurious Emissions Table (60GHz - 90GHz)

The RSE EIRP level is taken directly from the spectrum analyzer which includes the appropriate antenna factors, cable losses, and harmonic mixer conversion losses. Measurements were performed at a distance of 1 meter.

| FCC ID: A3LSMF936U  |   | Approved by:<br>Technical Manager |                 |
|---------------------|---|-----------------------------------|-----------------|
| Test Report S/N:    | Test Dates:                                   | EUT Type:                         | Page 156 of 248 |
| 1M2204010046-01.A3L | 0046-01.A3L 4/18 - 6/14/2022 Portable Handset |                                   | Fage 150 01 240 |
|                     |   |                                   | \/1.0           |



### 90GHz - 100GHz











Plot 7-210. Ant 2 - n261 Radiated Spurious Plot (1CC QPSK Mid Channel 2Tx - EN-DC Anchor Band 2) \_HALF

| FCC ID: A3LSMF936U  |                  | Approved by:<br>Technical Manager |                 |
|---------------------|------------------|-----------------------------------|-----------------|
| Test Report S/N:    | Test Dates:      | EUT Type:                         | Dega 157 of 249 |
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The raw radiated spurious level is converted to field strength in dBuV/m. Then, the RSE EIRP level is calculated by applying the additional factors shown below for a test distance of 1 meter.

**RSE EIRP (dBm)** = Analyzer Level (dBm) + 107 + AFCL (dB/m) + 20Log(Dm) – 104.8 + Harmonic Mixer Conversion Loss [dB]

| Frequency<br>[MHz] | Channnel | Bandwidth<br>(MHz) | EUT Beam<br>Pol. | Modulation | Antenna<br>Polarization<br>[H/V] | Turntable<br>Azimuth<br>[degrees] | Positioner<br>Azimuth<br>[degrees] | Spurious<br>Emission<br>Level<br>[dBm] | Limit<br>[dBm] | Margin<br>[dB] |
|--------------------|----------|--------------------|------------------|------------|----------------------------------|-----------------------------------|------------------------------------|--|----------------|----------------|
| 94586.90           | Low      | 50                 | 2Tx              | QPSK       | Н                                | -                                 | -                                  | -46.52                                 | -13.00         | -33.52         |
| 94814.50           | Mid      | 50                 | 2Tx              | QPSK       | н                                | -                                 | -                                  | -47.12                                 | -13.00         | -34.12         |
| 97352.10           | High     | 50                 | 2Tx              | QPSK       | Н                                | -                                 | -                                  | -46.67                                 | -13.00         | -33.67         |

Table 7-84. Ant 2 - n261 Radiated Spurious Emissions Table (90GHz - 100GHz)

#### <u>Notes</u>

The RSE EIRP level is taken directly from the spectrum analyzer which includes the appropriate antenna factors, cable losses, and harmonic mixer conversion losses. Measurements were performed at a distance of 1 meter.

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