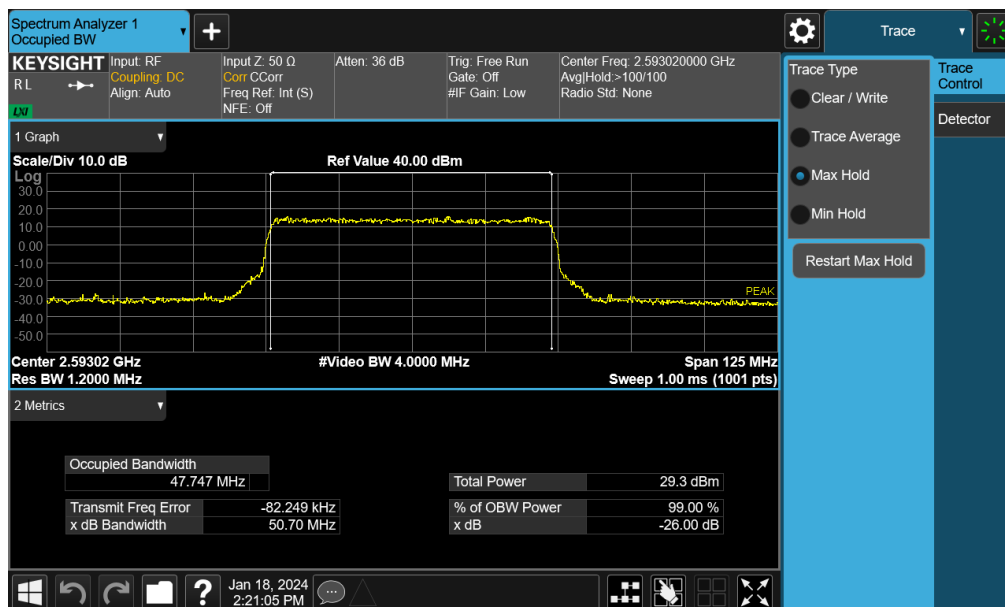
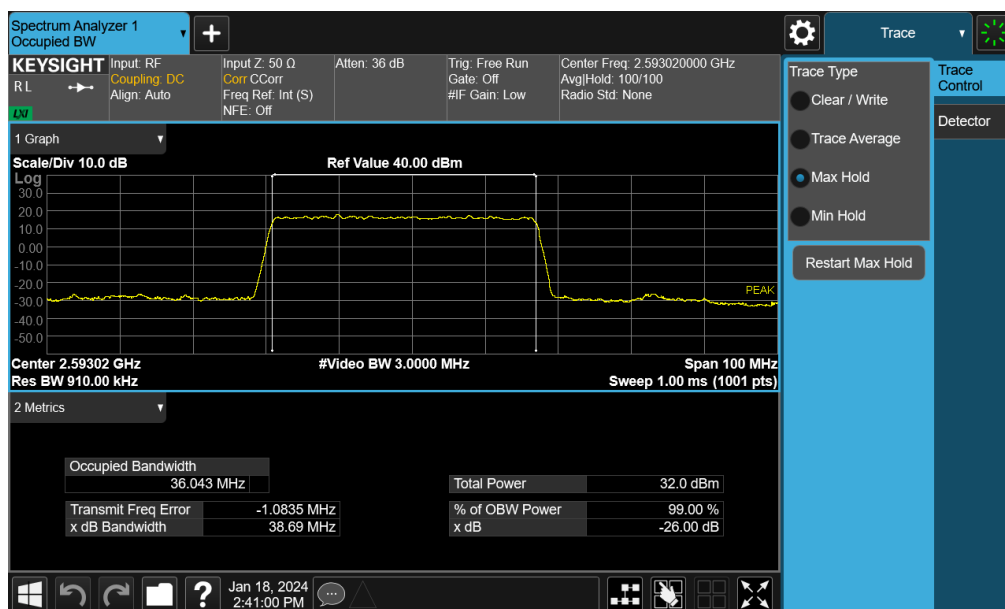


Plot 7-69. Occupied Bandwidth Plot (NR Band n41 - 50MHz QPSK - Full RB Configuration – Ant2)

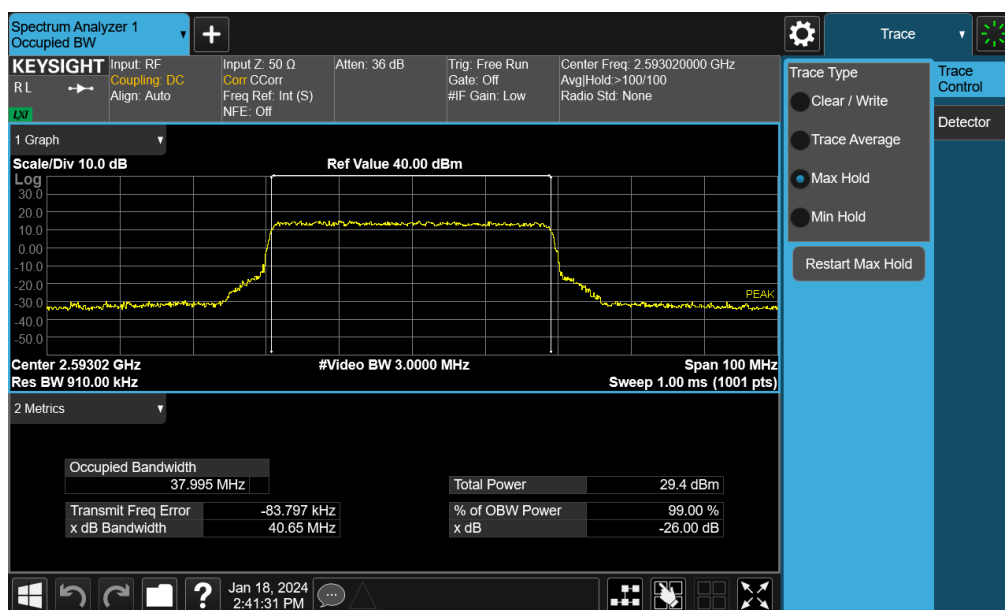


Plot 7-70. Occupied Bandwidth Plot (NR Band n41 - 50MHz 16-QAM - Full RB Configuration – Ant2)

| | | | |
|---|--------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMS928JPN | PART 27 MEASUREMENT REPORT | | Approved by: Technical Manager |
| Test Report S/N: 1M2312110124-18.A3L | Test Dates: 09/12/2023 – 2/2/2024 | EUT Type: Portable Handset | Page 58 of 123 |

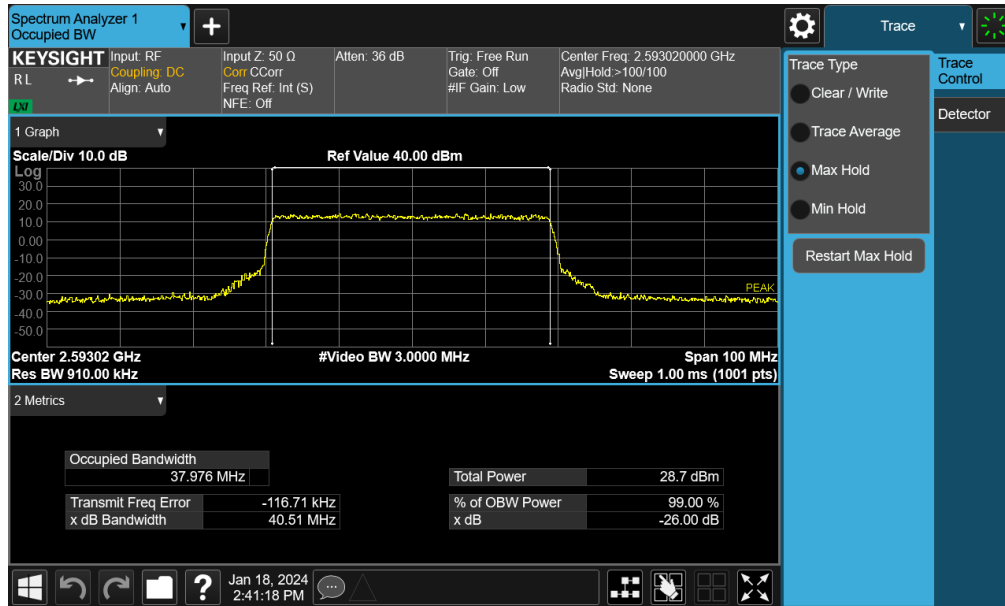


Plot 7-71. Occupied Bandwidth Plot (NR Band n41 - 40MHz $\pi/2$ BPSK - Full RB Configuration – Ant2)

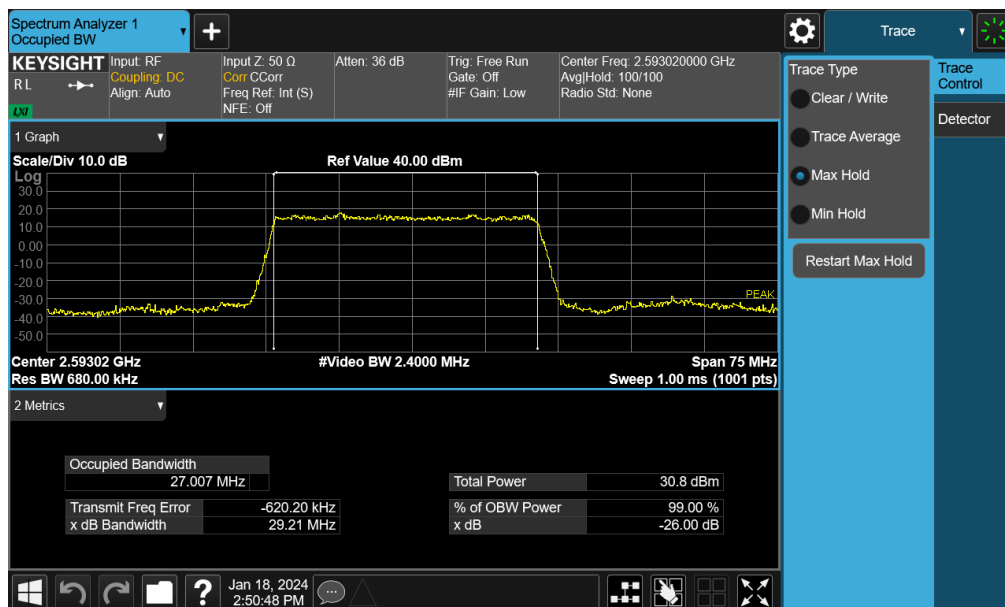


Plot 7-72. Occupied Bandwidth Plot (NR Band n41 - 40MHz QPSK - Full RB Configuration – Ant2)

| | | | |
|---|--------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMS928JPN | PART 27 MEASUREMENT REPORT | | Approved by: Technical Manager |
| Test Report S/N: 1M2312110124-18.A3L | Test Dates: 09/12/2023 – 2/2/2024 | EUT Type: Portable Handset | Page 59 of 123 |

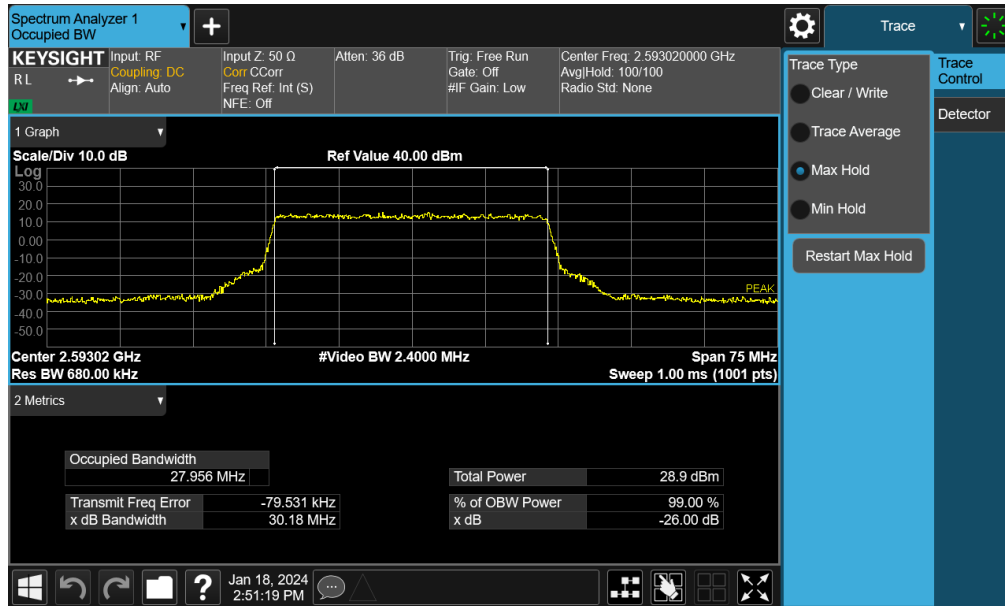


Plot 7-73. Occupied Bandwidth Plot (NR Band n41 - 40MHz 16-QAM - Full RB Configuration – Ant2)

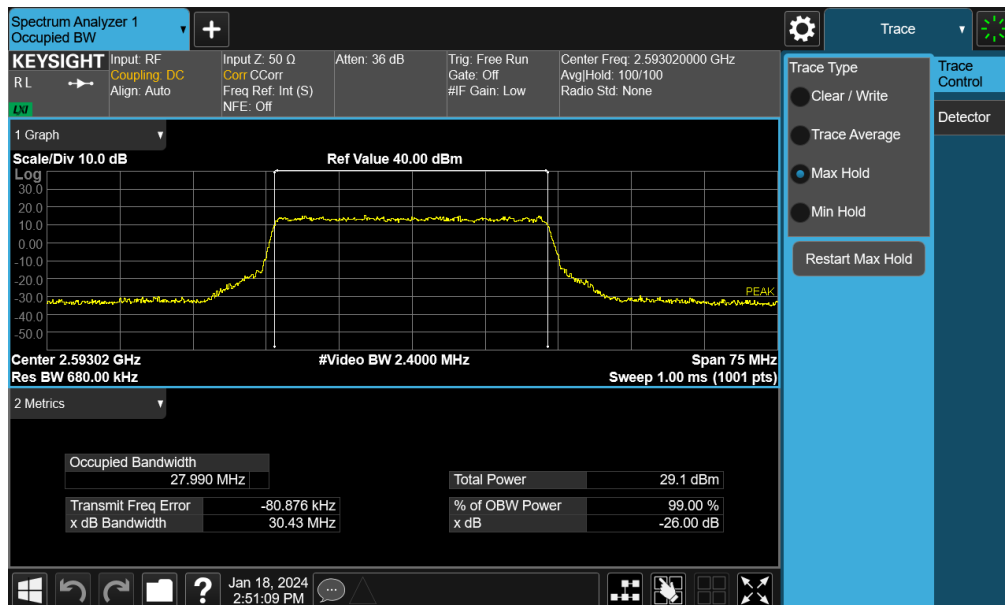


Plot 7-74. Occupied Bandwidth Plot (NR Band n41 - 30MHz $\pi/2$ BPSK - Full RB Configuration – Ant2)

| | | | |
|--|---|--------------------------------------|--|
| FCC ID: A3LSMS928JPN | PART 27 MEASUREMENT REPORT | | Approved by: Technical Manager |
| Test Report S/N: 1M2312110124-18.A3L | Test Dates: 09/12/2023 – 2/2/2024 | EUT Type: Portable Handset | Page 60 of 123 |

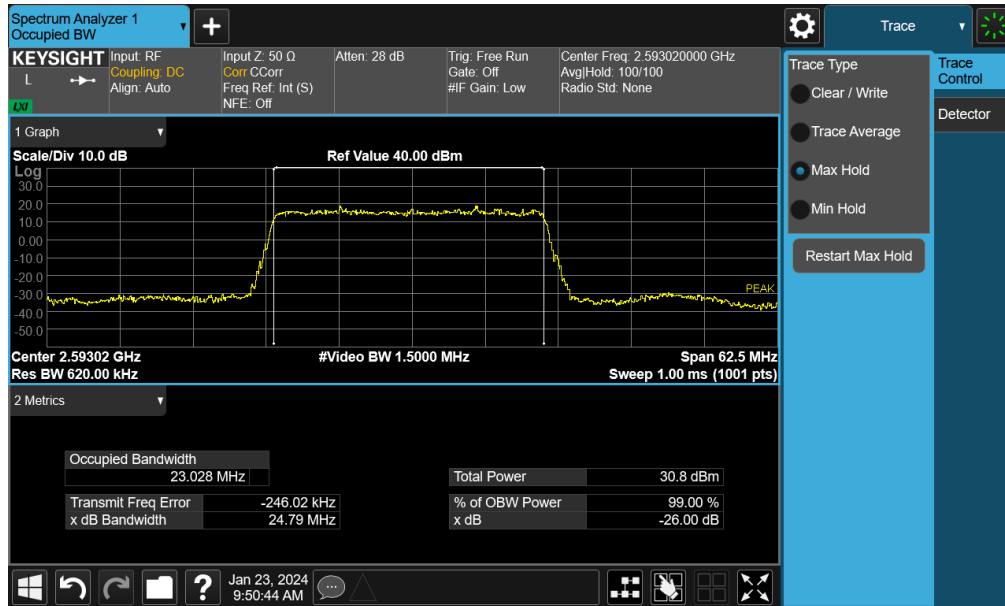


Plot 7-75. Occupied Bandwidth Plot (NR Band n41 - 30MHz QPSK - Full RB Configuration – Ant2)

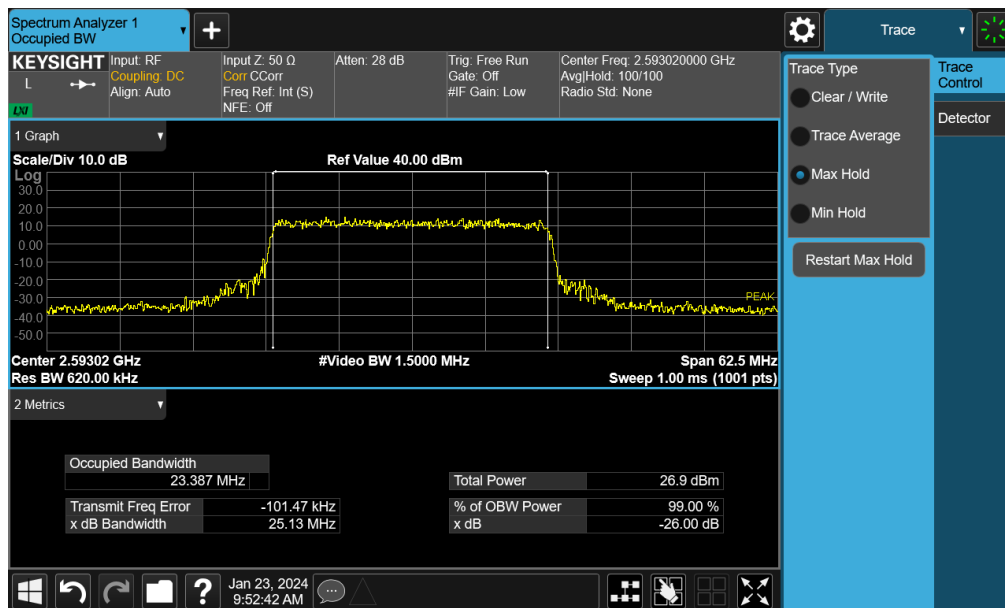


Plot 7-76. Occupied Bandwidth Plot (NR Band n41 - 30MHz 16-QAM - Full RB Configuration – Ant2)

| | | | |
|---|--------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMS928JPN | PART 27 MEASUREMENT REPORT | | Approved by: Technical Manager |
| Test Report S/N: 1M2312110124-18.A3L | Test Dates: 09/12/2023 – 2/2/2024 | EUT Type: Portable Handset | Page 61 of 123 |

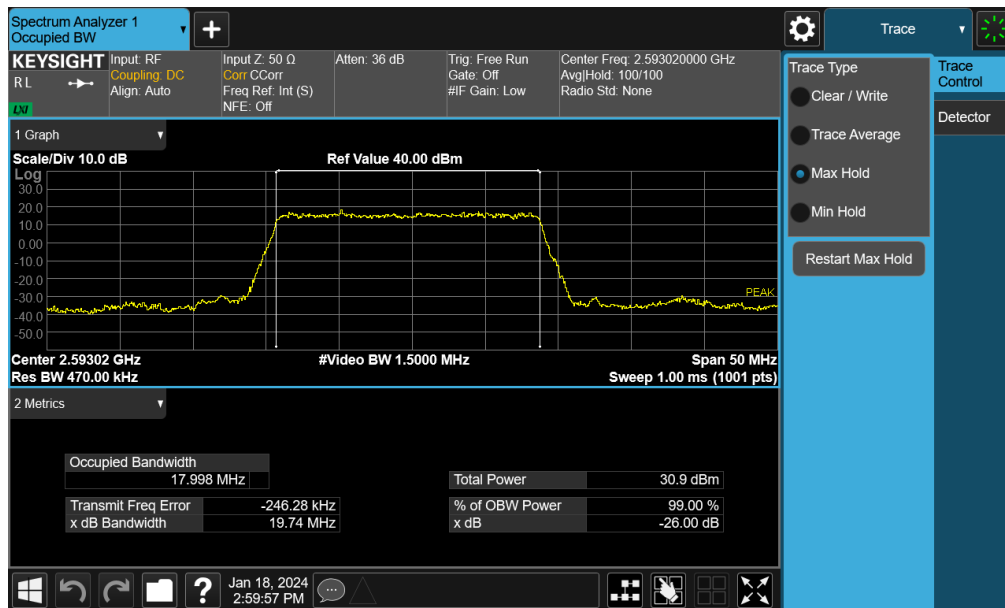
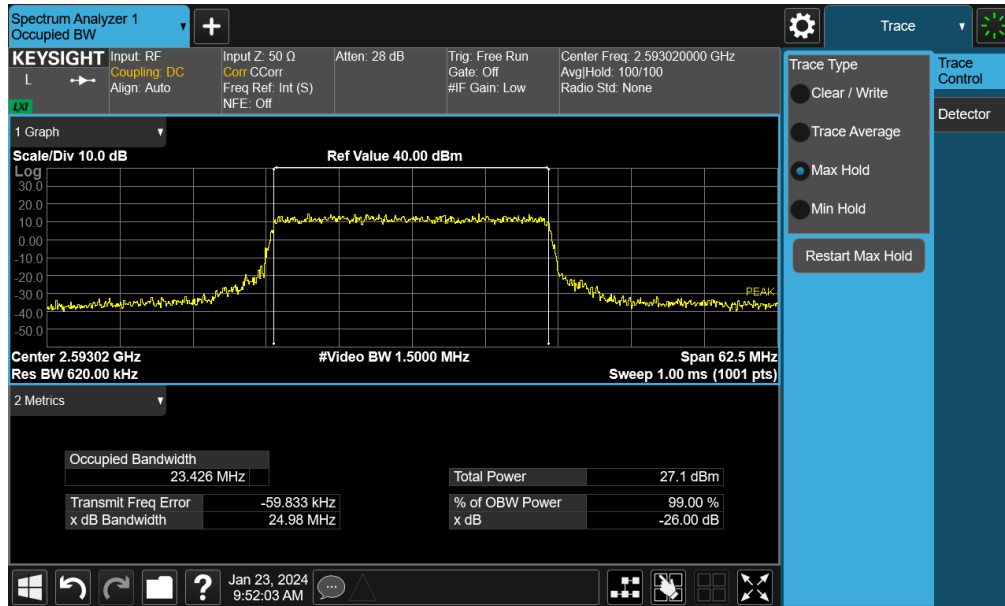


Plot 7-77. Occupied Bandwidth Plot (NR Band n41 - 25MHz $\pi/2$ BPSK - Full RB Configuration – Ant2)

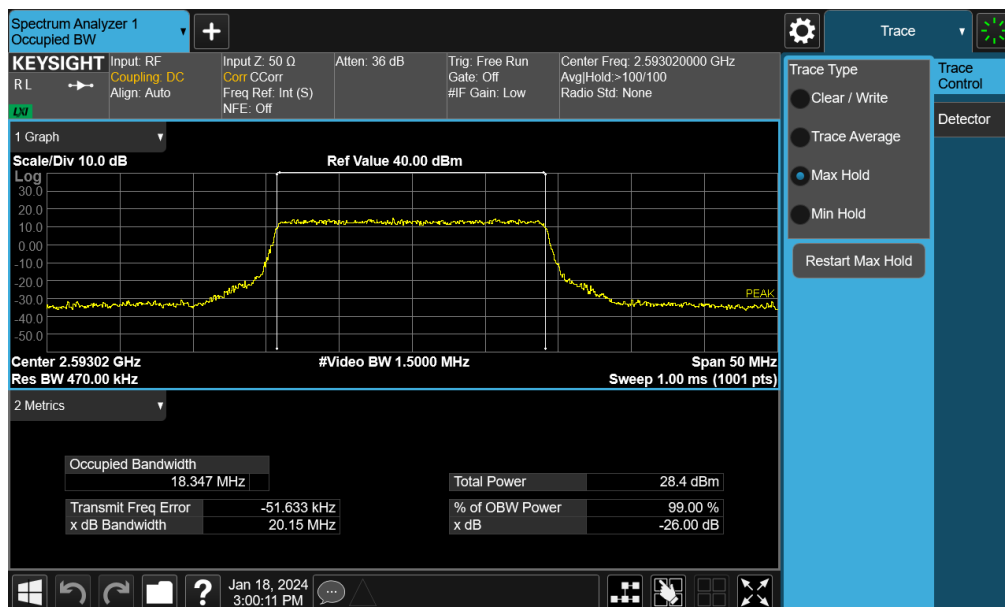
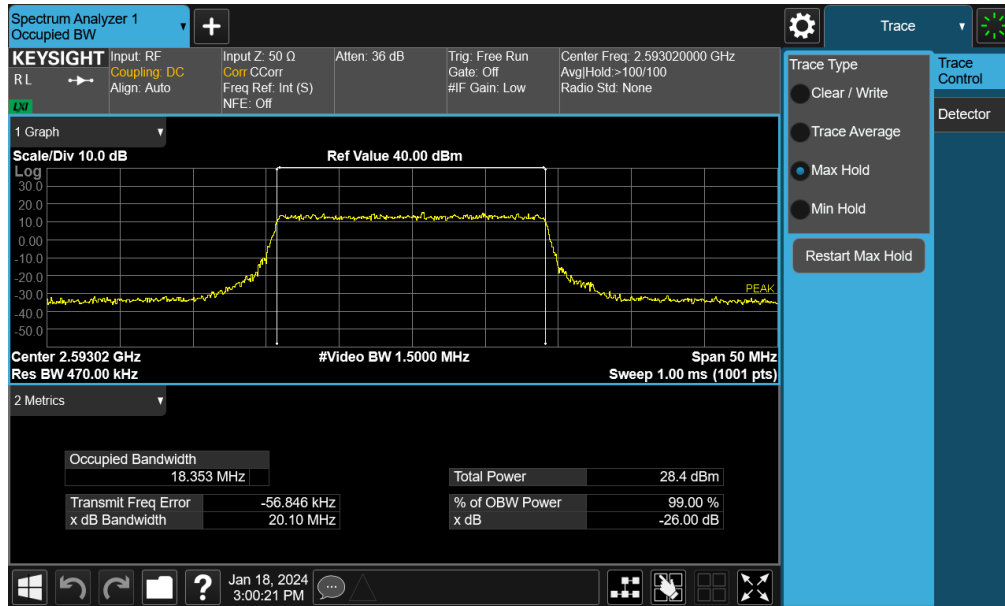


Plot 7-78. Occupied Bandwidth Plot (NR Band n41 - 25MHz QPSK - Full RB Configuration – Ant2)

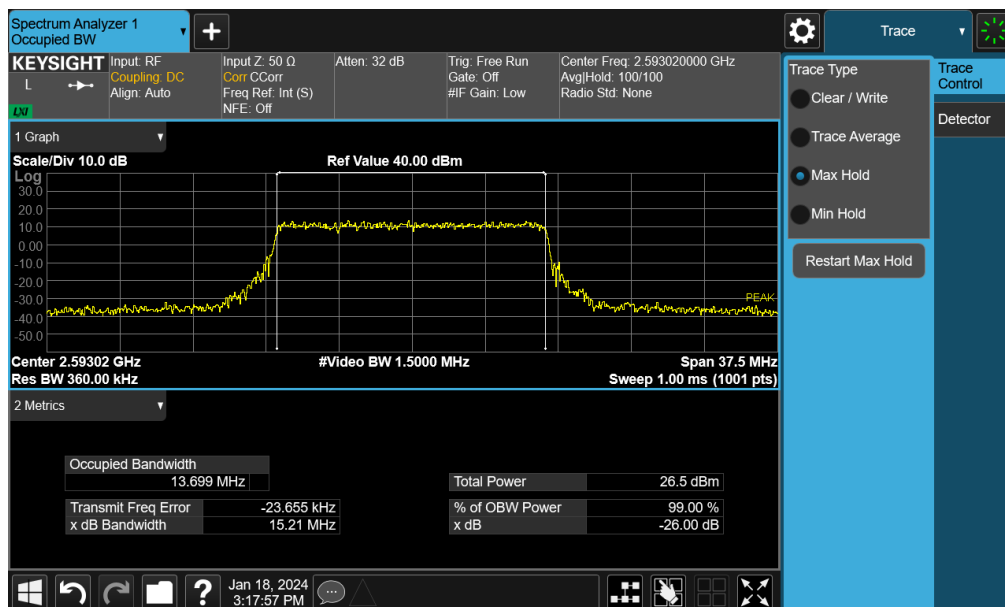
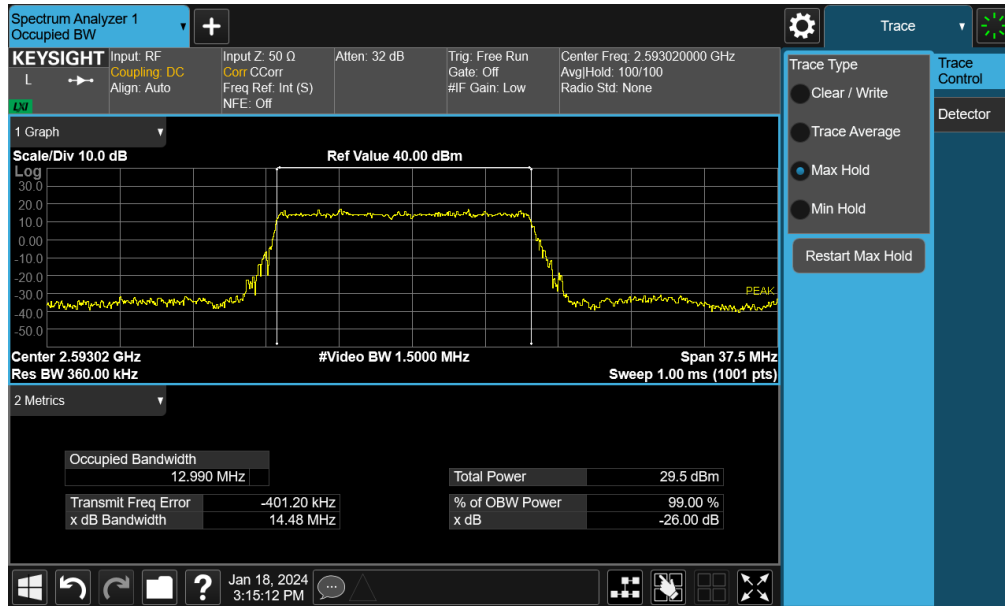
| | | | |
|---|--------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMS928JPN | PART 27 MEASUREMENT REPORT | | Approved by: Technical Manager |
| Test Report S/N: 1M2312110124-18.A3L | Test Dates: 09/12/2023 – 2/2/2024 | EUT Type: Portable Handset | Page 62 of 123 |



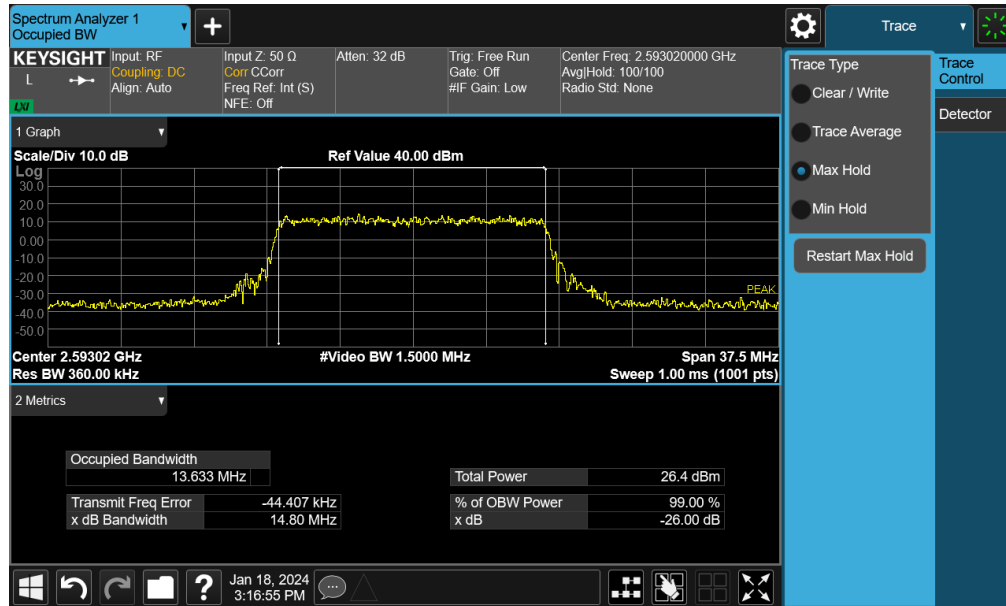
| | | | |
|---|--------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMS928JPN | PART 27 MEASUREMENT REPORT | | Approved by: Technical Manager |
| Test Report S/N: 1M2312110124-18.A3L | Test Dates: 09/12/2023 – 2/2/2024 | EUT Type: Portable Handset | Page 63 of 123 |



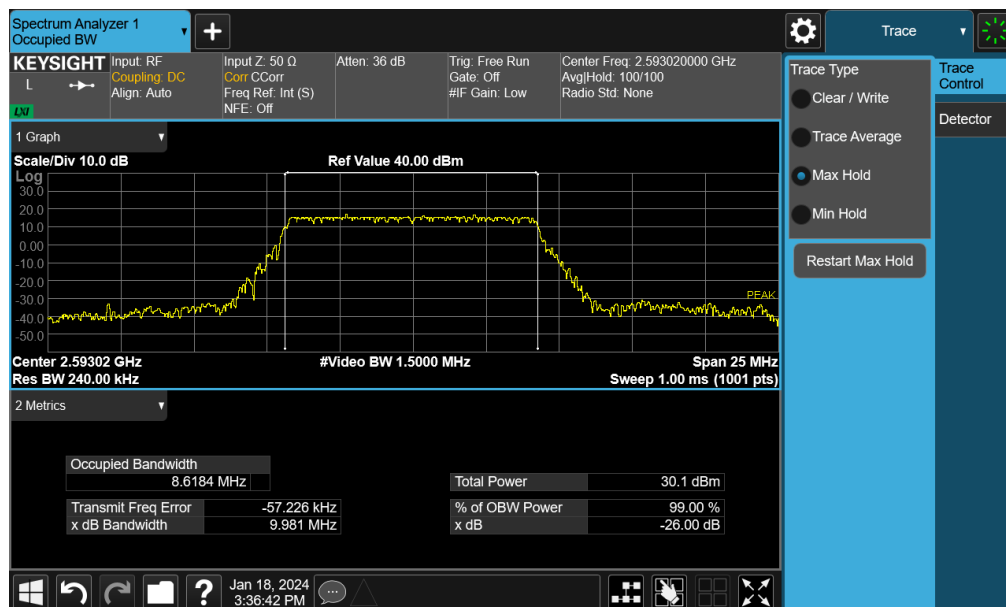
| | | | |
|---|--------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMS928JPN | PART 27 MEASUREMENT REPORT | | Approved by: Technical Manager |
| Test Report S/N: 1M2312110124-18.A3L | Test Dates: 09/12/2023 – 2/2/2024 | EUT Type: Portable Handset | Page 64 of 123 |



| | | | |
|---|--------------------------------------|-------------------------------|-----------------------------------|
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| Test Report S/N: 1M2312110124-18.A3L | Test Dates: 09/12/2023 – 2/2/2024 | EUT Type: Portable Handset | Page 65 of 123 |

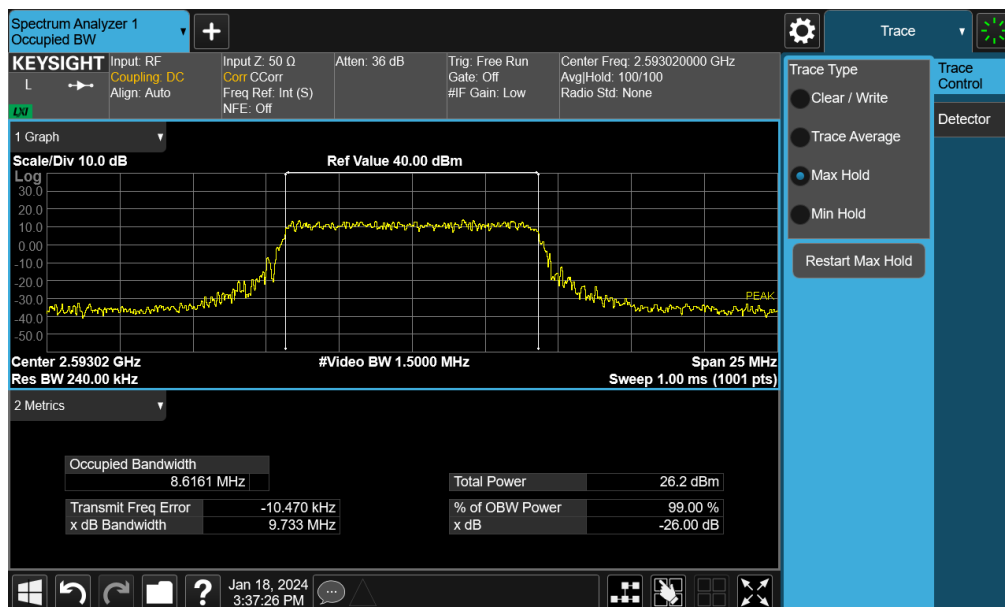
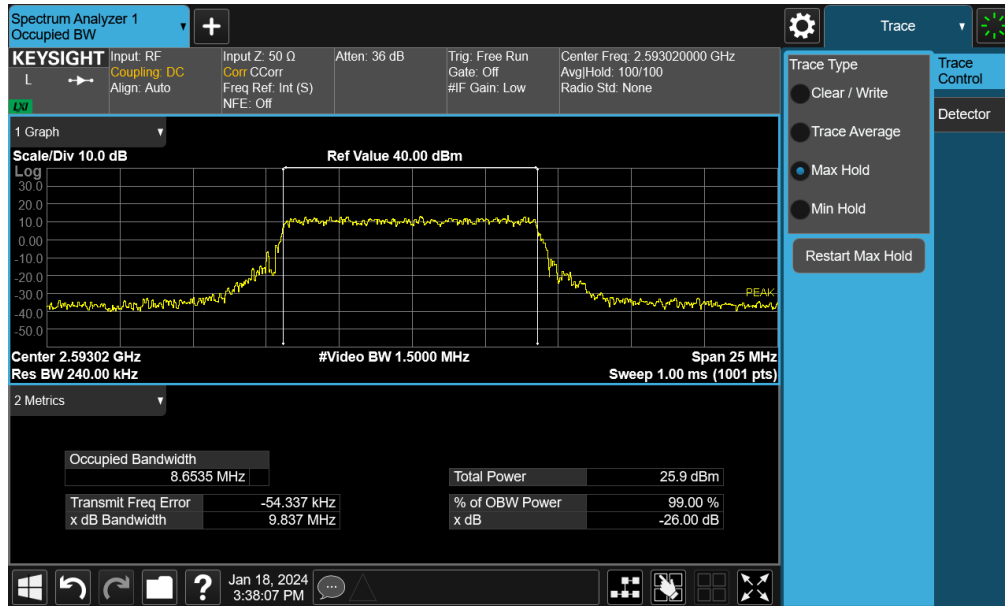


Plot 7-85. Occupied Bandwidth Plot (NR Band n41 - 15MHz 16-QAM - Full RB Configuration – Ant2)



Plot 7-86. Occupied Bandwidth Plot (NR Band n41 - 10MHz $\pi/2$ BPSK - Full RB Configuration – Ant2)

| | | | |
|--|---|--------------------------------------|--|
| FCC ID: A3LSMS928JPN | PART 27 MEASUREMENT REPORT | | Approved by: Technical Manager |
| Test Report S/N: 1M2312110124-18.A3L | Test Dates: 09/12/2023 – 2/2/2024 | EUT Type: Portable Handset | Page 66 of 123 |



| | | | |
|---|--------------------------------------|-------------------------------|-----------------------------------|
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7.4 Spurious and Harmonic Emissions at Antenna Terminal

Test Overview

The level of the carrier and the various conducted spurious and harmonic frequencies is measured by means of a calibrated spectrum analyzer. The spectrum is scanned from the lowest frequency generated in the equipment up to a frequency including its 10th harmonic. All out of band emissions are measured with a spectrum analyzer connected to the antenna terminal of the EUT while the EUT is operating at maximum power, and at the appropriate frequencies. All data rates were investigated to determine the worst-case configuration. All modes of operation were investigated and the worst-case configuration results are reported in this section.

The minimum permissible attenuation level of any spurious emission is $43 + 10 \log_{10}(P_{\text{Watts}})$, where P is the transmitter power in Watts.

For Band 41, the minimum permissible attenuation level of any spurious emission is $55 + 10 \log_{10}(P_{\text{Watts}})$.

Test Procedure Used

ANSI C63.26-2015 – Section 5.7.4

Test Settings

1. Start frequency was set to 30MHz and stop frequency was set to 10GHz (separated into at least two plots per channel)
2. Detector = RMS
3. Trace mode = trace average for continuous emissions, max hold for pulse emissions
4. Sweep time = auto couple
5. The trace was allowed to stabilize
6. Please see test notes below for RBW and VBW settings

Test Setup

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

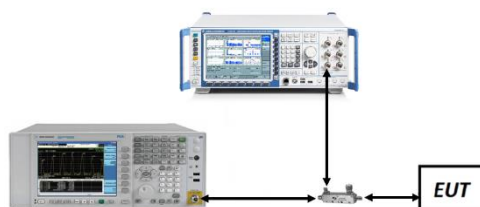


Figure 7-3. Test Instrument & Measurement Setup

Test Notes

1. Per Part 27, compliance with the applicable limits is based on the use of measurement instrumentation employing a resolution bandwidth of 1 MHz.
2. For NR operation, all subcarrier spacings (SCS) and transmission schemes (e.g. CP-OFDM and DFT-s-OFDM) were investigated to determine the worst-case configuration. All modes of operation were investigated and the worst-case configuration results are reported in this section.

| | | | |
|---|--------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMS928JPN | PART 27 MEASUREMENT REPORT | | Approved by: Technical Manager |
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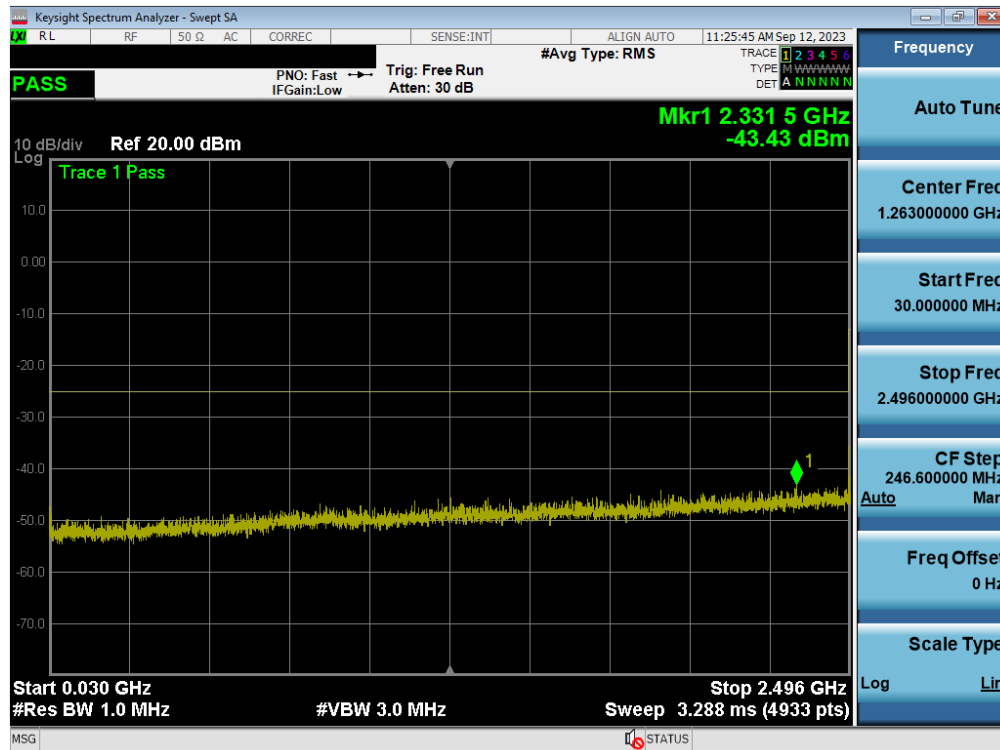
| Mode | Bandwidth | Channel | Range [MHz] | Level [dBm] | Limit [dBm] | Margin [dB] |
|------------------|-----------|---------|-------------------|-------------|-------------|-------------|
| LTE-B41 PC3 | 20MHz | Low | 30.0 - 2475.0 | -40.15 | -25 | -15.15 |
| | | Low | 2690.0 - 15000.0 | -40.85 | -25 | -15.85 |
| | | Low | 15000.0 - 27000.0 | -48.99 | -25 | -23.99 |
| | | Mid | 30.0 - 2500.0 | -43.43 | -25 | -18.43 |
| | | Mid | 2690.0 - 15000.0 | -36.61 | -25 | -11.61 |
| | | Mid | 15000.0 - 27000.0 | -47.21 | -25 | -22.21 |
| | | High | 30.0 - 2500.0 | -47.64 | -25 | -22.64 |
| | | High | 2690.0 - 15000.0 | -40.78 | -25 | -15.78 |
| | | High | 15000.0 - 27000.0 | -49.89 | -25 | -24.89 |
| LTE-B41 PC3 ULCA | 20+20MHz | Low | 30.0 - 2475.0 | -43.03 | -25 | -18.03 |
| | | Low | 2496.0 - 2690.0 | 15.84 | - | - |
| | | Low | 2690.0 - 15000.0 | -37.12 | -25 | -12.12 |
| | | Low | 15000.0 - 27000.0 | -51.80 | -25 | -26.80 |
| | | Mid | 30.0 - 2496.0 | -41.97 | -25 | -16.97 |
| | | Mid | 2496.0 - 2690.0 | 15.70 | - | - |
| | | Mid | 2690.0 - 15000.0 | -38.43 | -25 | -13.43 |
| | | Mid | 15000.0 - 27000.0 | -52.03 | -25 | -27.03 |
| | | High | 30.0 - 2496.0 | -43.61 | -25 | -18.61 |
| | | High | 2496.0 - 2690.0 | 14.92 | - | - |
| | | High | 2715.0 - 15000.0 | -38.61 | -25 | -13.61 |
| | | High | 2690.0 - 15000.0 | -52.05 | -25 | -27.05 |

Table 7-9. Conducted Spurious Emission Results – LTE – Ant1

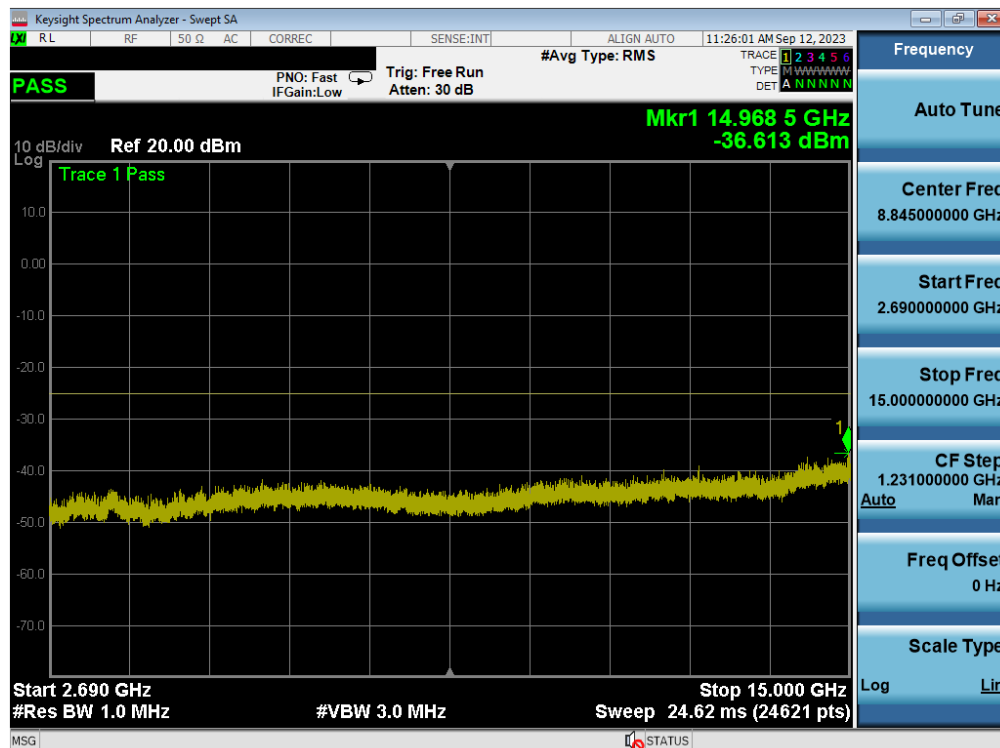
| | | | |
|--|---|--------------------------------------|--|
| FCC ID: A3LSMS928JPN | PART 27 MEASUREMENT REPORT | | Approved by: Technical Manager |
| Test Report S/N: 1M2312110124-18.A3L | Test Dates: 09/12/2023 – 2/2/2024 | EUT Type: Portable Handset | Page 69 of 123 |



LTE Band 41(PC3) – Ant1

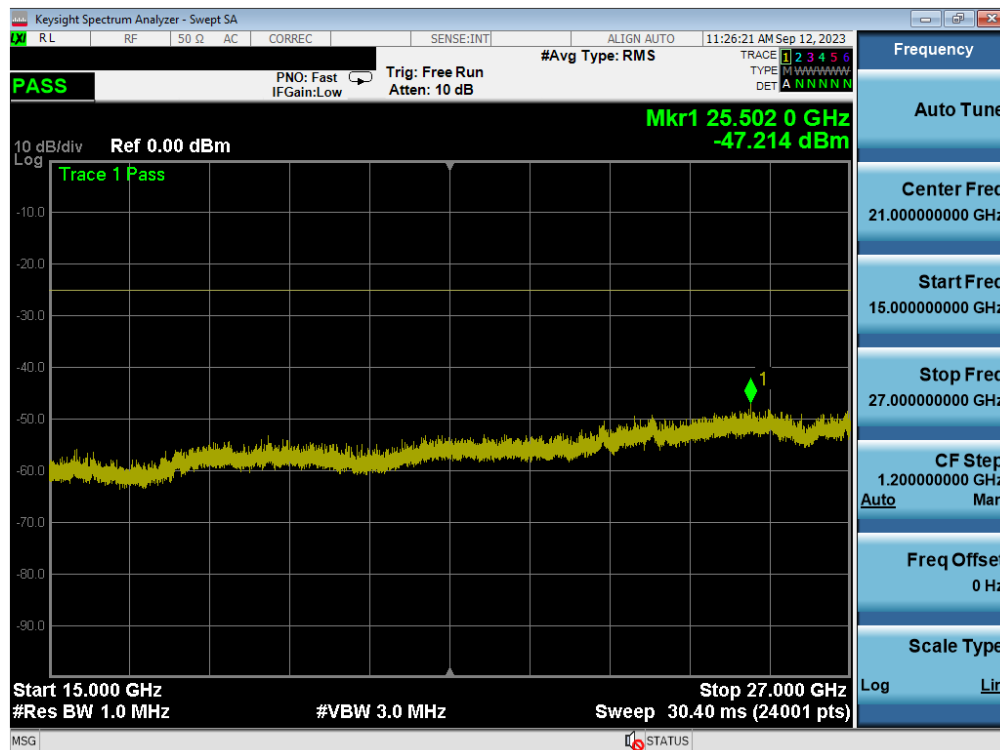


Plot 7-89. Conducted Spurious Plot (LTE Band 41(PC3) - 20MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel - Ant1)



Plot 7-90. Conducted Spurious Plot (LTE Band 41(PC3) - 20MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel - Ant1)

| | | | |
|---|--------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMS928JPN | PART 27 MEASUREMENT REPORT | | Approved by: Technical Manager |
| Test Report S/N: 1M2312110124-18.A3L | Test Dates: 09/12/2023 – 2/2/2024 | EUT Type: Portable Handset | Page 70 of 123 |

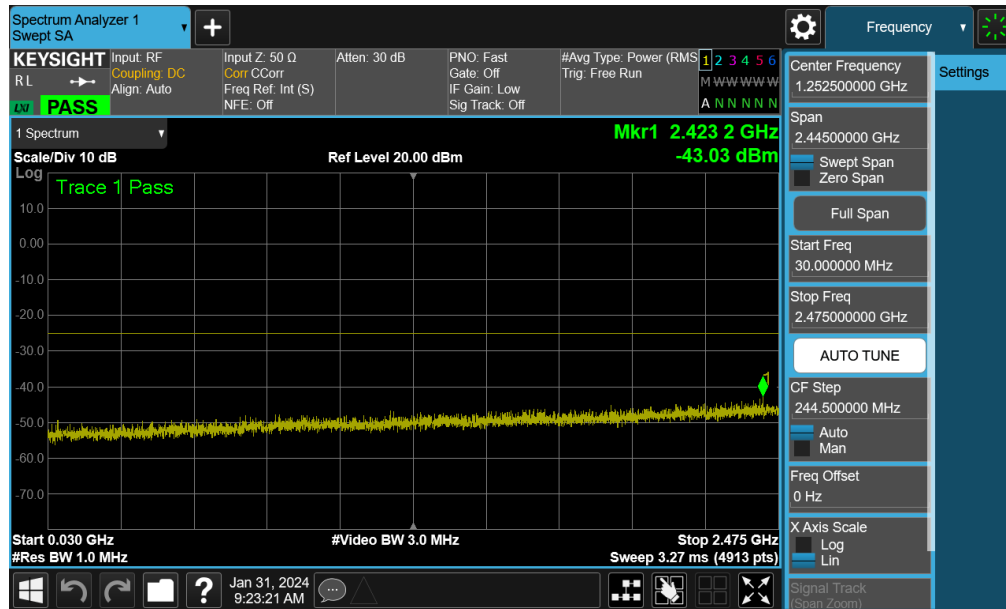


Plot 7-91. Conducted Spurious Plot (LTE Band 41(PC3) - 20MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel - Ant1)

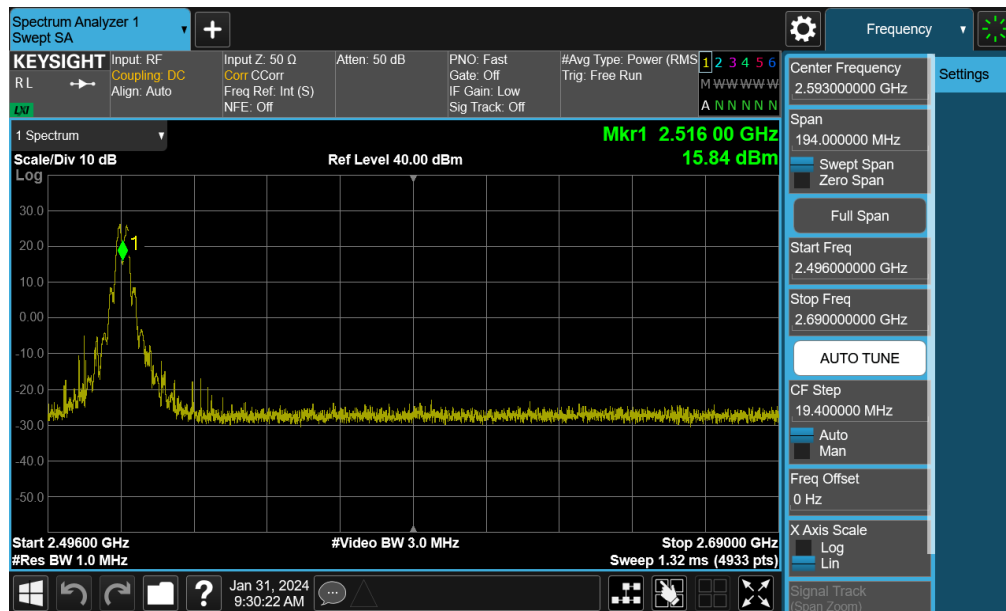
| | | | |
|---|--------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMS928JPN | PART 27 MEASUREMENT REPORT | | Approved by: Technical Manager |
| Test Report S/N: 1M2312110124-18.A3L | Test Dates: 09/12/2023 - 2/2/2024 | EUT Type: Portable Handset | Page 71 of 123 |



ULCA - LTE B41(PC3) – Ant1



Plot 7-92. Conducted Spurious Plot (ULCA LTE B41(PC3) - 20MHz QPSK - RB Size 1, RB Offset 0 - Low Channel Ant1)



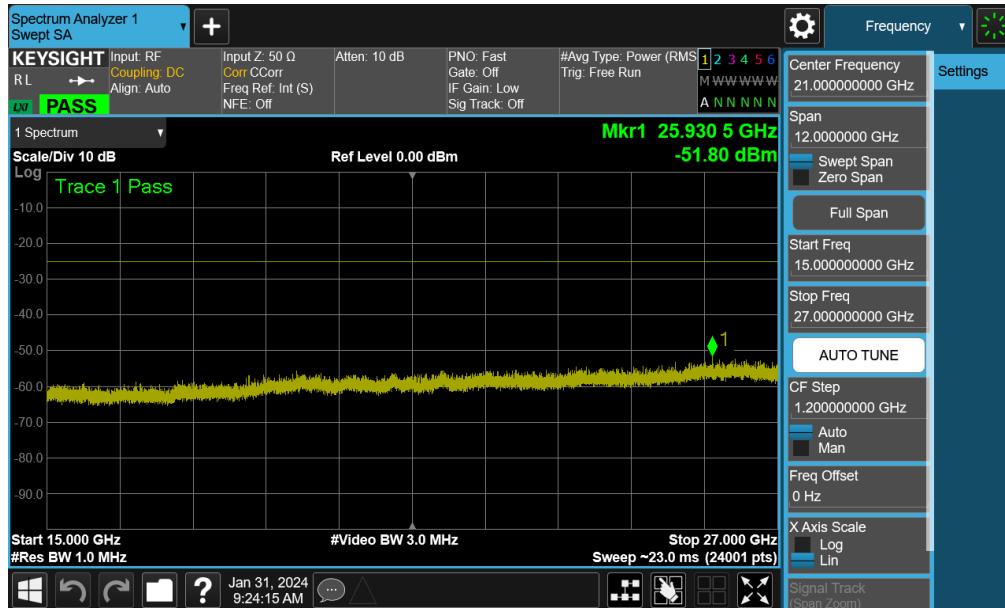
Plot 7-93. Conducted Spurious Plot (ULCA LTE B41(PC3) - 20MHz QPSK - RB Size 1, RB Offset 0 - Low Channel Ant1)

| | | | |
|---|--------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMS928JPN | PART 27 MEASUREMENT REPORT | | Approved by: Technical Manager |
| Test Report S/N: 1M2312110124-18.A3L | Test Dates: 09/12/2023 – 2/2/2024 | EUT Type: Portable Handset | Page 72 of 123 |

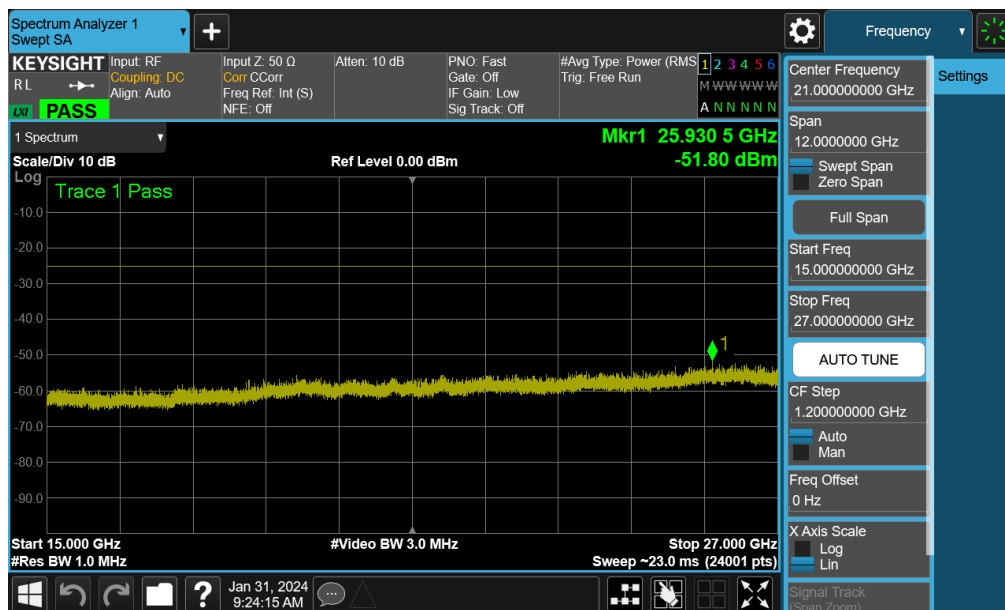
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V11.1 08/28/2023

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Plot 7-94. Conducted Spurious Plot (ULCA LTE B41(PC3) - 20MHz QPSK - RB Size 1, RB Offset 0 - Low Channel Ant1)



Plot 7-95. Conducted Spurious Plot (ULCA LTE B41(PC3) - 20MHz QPSK - RB Size 1, RB Offset 0 - Low Channel Ant1)

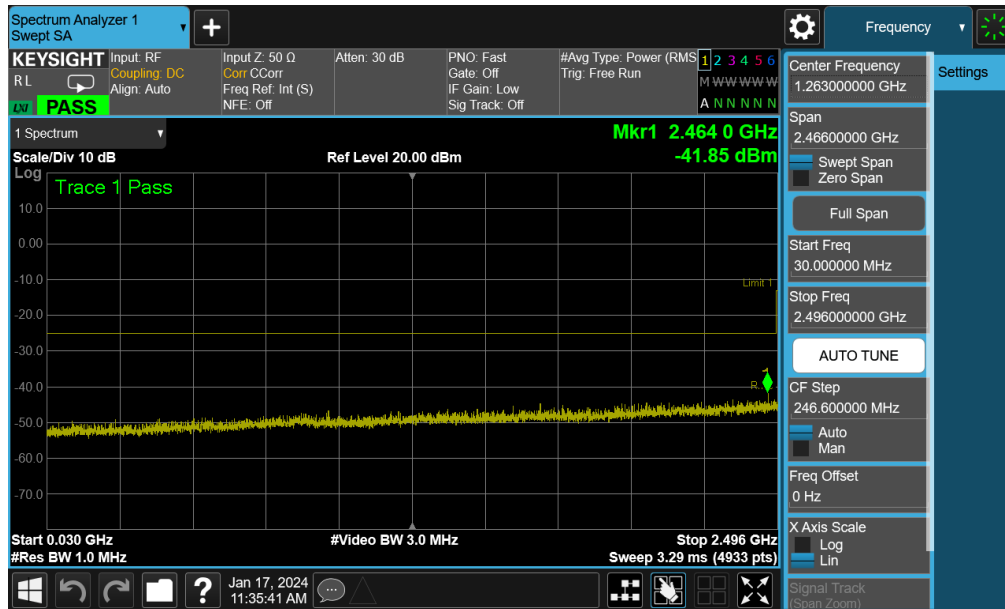
| | | | |
|---|--------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMS928JPN | PART 27 MEASUREMENT REPORT | | Approved by: Technical Manager |
| Test Report S/N: 1M2312110124-18.A3L | Test Dates: 09/12/2023 – 2/2/2024 | EUT Type: Portable Handset | Page 73 of 123 |

| Mode | Bandwidth | Channel | Range [MHz] | Level [dBm] | Limit [dBm] | Margin [dB] |
|-----------|-----------|---------|-------------------|-------------|-------------|-------------|
| NR-n41PC3 | 100MHz | Low | 30.0 - 2470.0 | -39.98 | -25 | -14.98 |
| | | Low | 2690.0 - 15000.0 | -37.85 | -25 | -12.85 |
| | | Low | 15000.0 - 27000.0 | -51.64 | -25 | -26.64 |
| | | Mid | 30.0 - 2496.0 | -43.45 | -25 | -18.45 |
| | | Mid | 2690.0 - 15000.0 | -38.25 | -25 | -13.25 |
| | | Mid | 15000.0 - 27000.0 | -51.05 | -25 | -26.05 |
| | | High | 30.0 - 2496.0 | -41.85 | -25 | -16.85 |
| | | High | 2715.0 - 15000.0 | -37.74 | -25 | -12.74 |
| | | High | 15000.0 - 27000.0 | -51.01 | -25 | -26.01 |

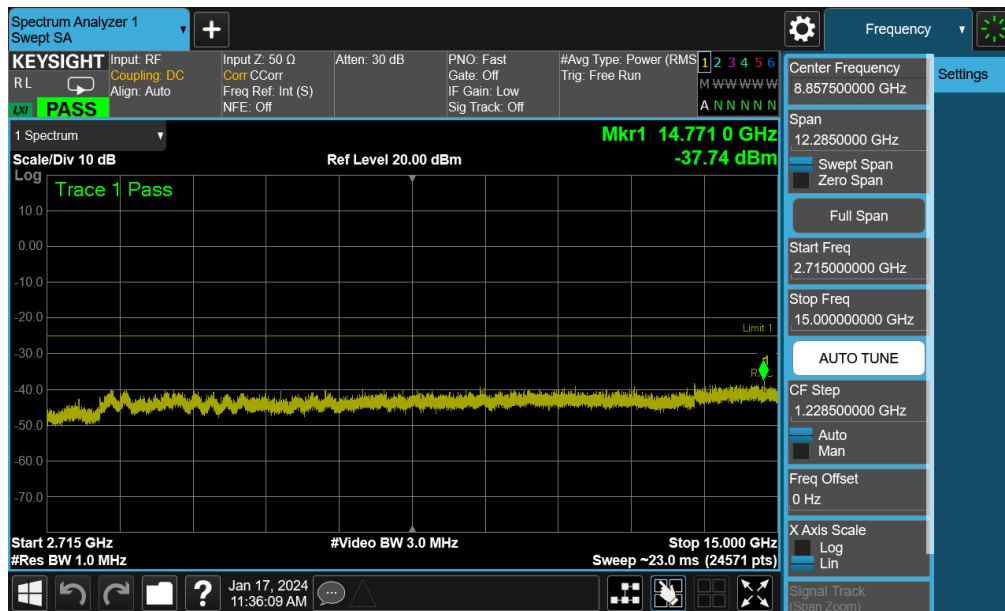
Table 7 23. Conducted Spurious Emission Results – NR – Ant1

| | | | |
|--|---|--------------------------------------|--|
| FCC ID: A3LSMS928JPN | PART 27 MEASUREMENT REPORT | | Approved by: Technical Manager |
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NR Band n41 – Ant1

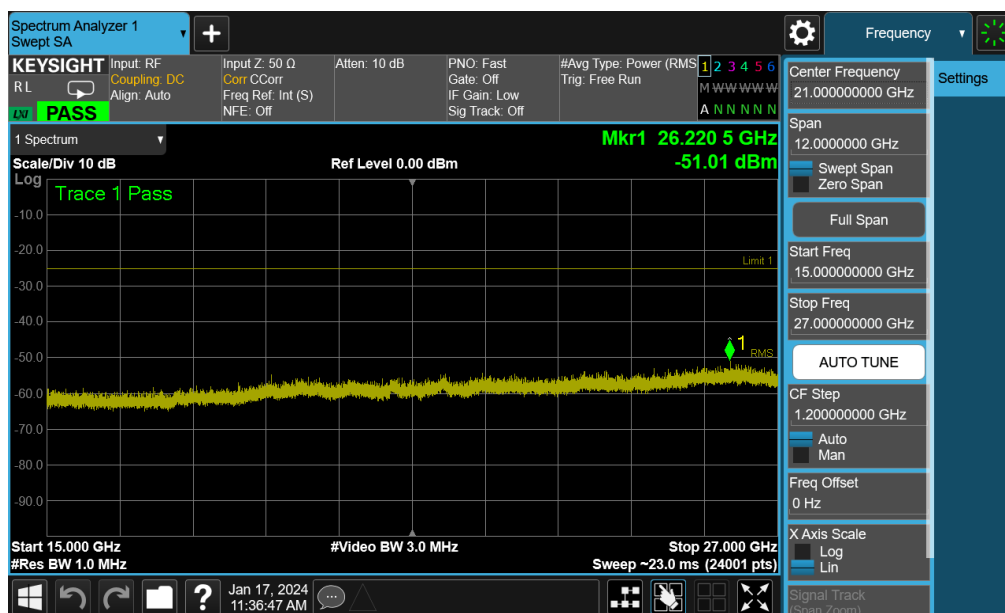


Plot 7-96. Conducted Spurious Plot (NR Band n41 - 100MHz QPSK - RB Size 1, RB Offset 0 - High Channel – Ant1)



Plot 7-97. Conducted Spurious Plot (NR Band n41 - 100MHz QPSK - RB Size 1, RB Offset 0 - High Channel – Ant1)

| | | | |
|---|--------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMS928JPN | PART 27 MEASUREMENT REPORT | | Approved by: Technical Manager |
| Test Report S/N: 1M2312110124-18.A3L | Test Dates: 09/12/2023 – 2/2/2024 | EUT Type: Portable Handset | Page 75 of 123 |



Plot 7-98. Conducted Spurious Plot (NR Band n41 - 100MHz QPSK - RB Size 1, RB Offset 0 - High Channel – Ant1)

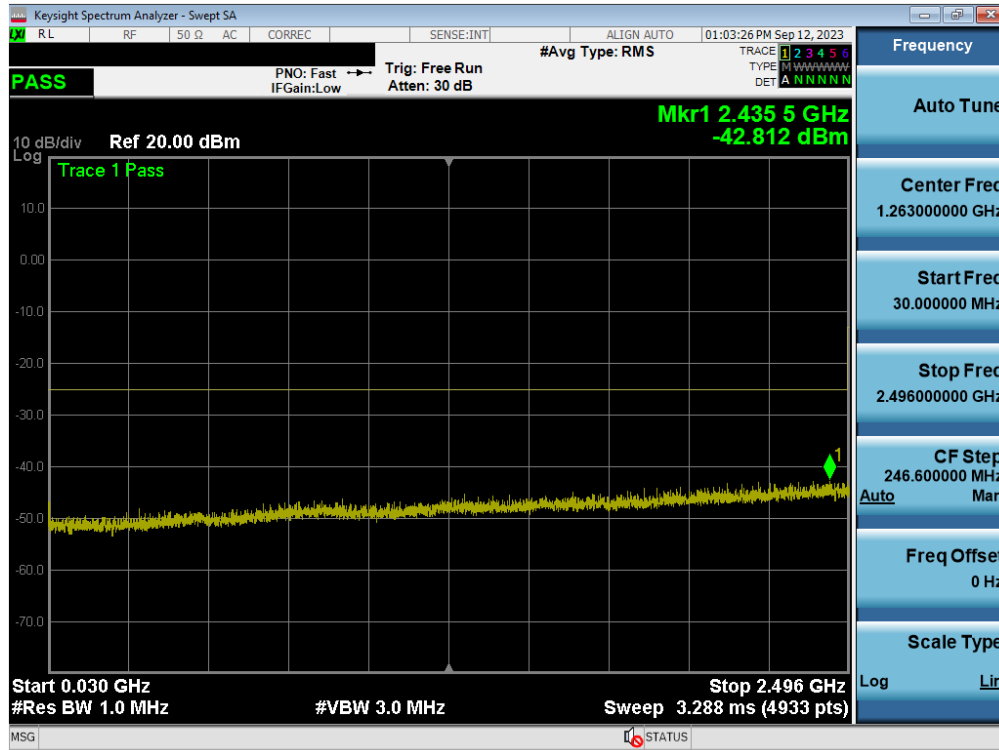
| | | | |
|---|--------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMS928JPN | PART 27 MEASUREMENT REPORT | | Approved by: Technical Manager |
| Test Report S/N: 1M2312110124-18.A3L | Test Dates: 09/12/2023 – 2/2/2024 | EUT Type: Portable Handset | Page 76 of 123 |

| Mode | Bandwidth | Channel | Range [MHz] | Level [dBm] | Limit [dBm] | Margin [dB] |
|------------------------|-----------|---------|-------------------|-------------|-------------|-------------|
| LTE-B41 PC3 | 20MHz | Low | 30.0 - 2475.0 | -44.37 | -25 | -19.37 |
| | | Low | 2690.0 - 15000.0 | -40.72 | -25 | -15.72 |
| | | Low | 15000.0 - 27000.0 | -49.41 | -25 | -24.41 |
| | | Mid | 30.0 - 2500.0 | -42.81 | -25 | -17.81 |
| | | Mid | 2690.0 - 15000.0 | -36.64 | -25 | -11.64 |
| | | Mid | 15000.0 - 27000.0 | -47.20 | -25 | -22.20 |
| | | High | 30.0 - 2500.0 | -39.80 | -25 | -14.80 |
| | | High | 2690.0 - 15000.0 | -40.70 | -25 | -15.70 |
| | | High | 15000.0 - 27000.0 | -49.73 | -25 | -24.73 |
| LTE-B41 PC3 ULCA | 20+20MHz | Low | 30.0 - 2475.0 | -42.74 | -25 | -17.74 |
| | | Low | 2496.0 - 2690.0 | 15.44 | - | - |
| | | Low | 2690.0 - 15000.0 | -38.20 | -25 | -13.20 |
| | | Low | 15000.0 - 27000.0 | -51.33 | -25 | -26.33 |
| | | Mid | 30.0 - 2496.0 | -42.56 | -25 | -17.56 |
| | | Mid | 2496.0 - 2690.0 | 16.49 | - | - |
| | | Mid | 2690.0 - 15000.0 | -38.00 | -25 | -13.00 |
| | | Mid | 15000.0 - 27000.0 | -51.53 | -25 | -26.53 |
| | | High | 30.0 - 2496.0 | -42.51 | -25 | -17.51 |
| | | High | 2496.0 - 2690.0 | 15.26 | - | - |
| | | High | 2715.0 - 15000.0 | -37.50 | -25 | -12.50 |
| | | High | 2690.0 - 15000.0 | -51.16 | -25 | -26.16 |

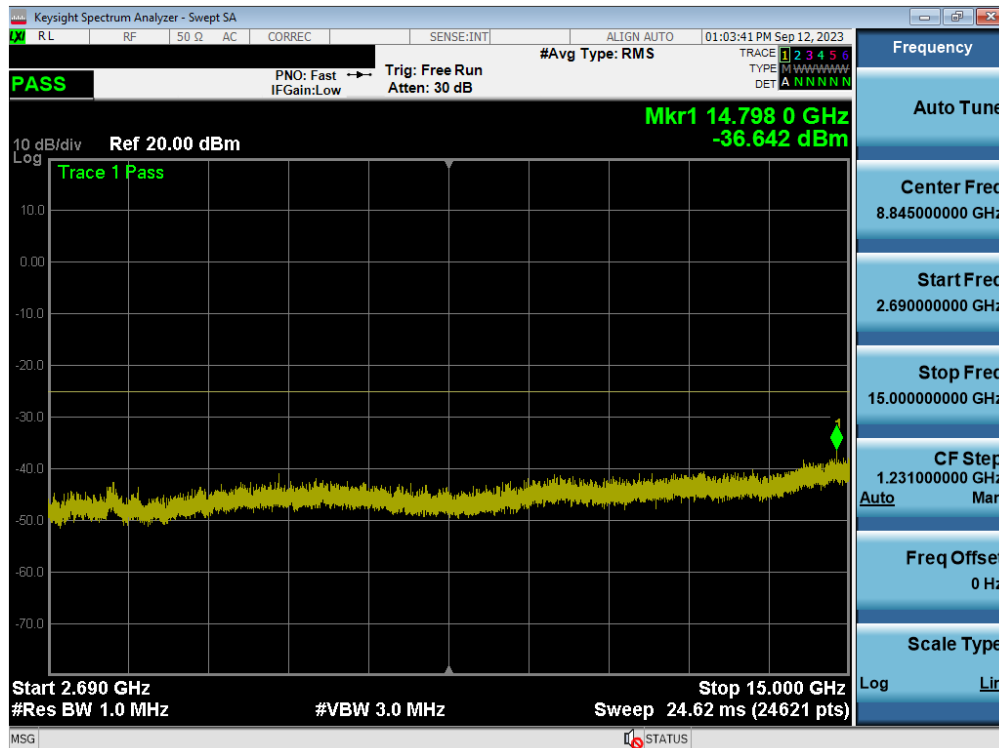
Table 7-10. Conducted Spurious Emission Results – LTE – Ant2

| | | | |
|---|--------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMS928JPN | PART 27 MEASUREMENT REPORT | | Approved by: Technical Manager |
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LTE Band 41(PC3) – Ant2

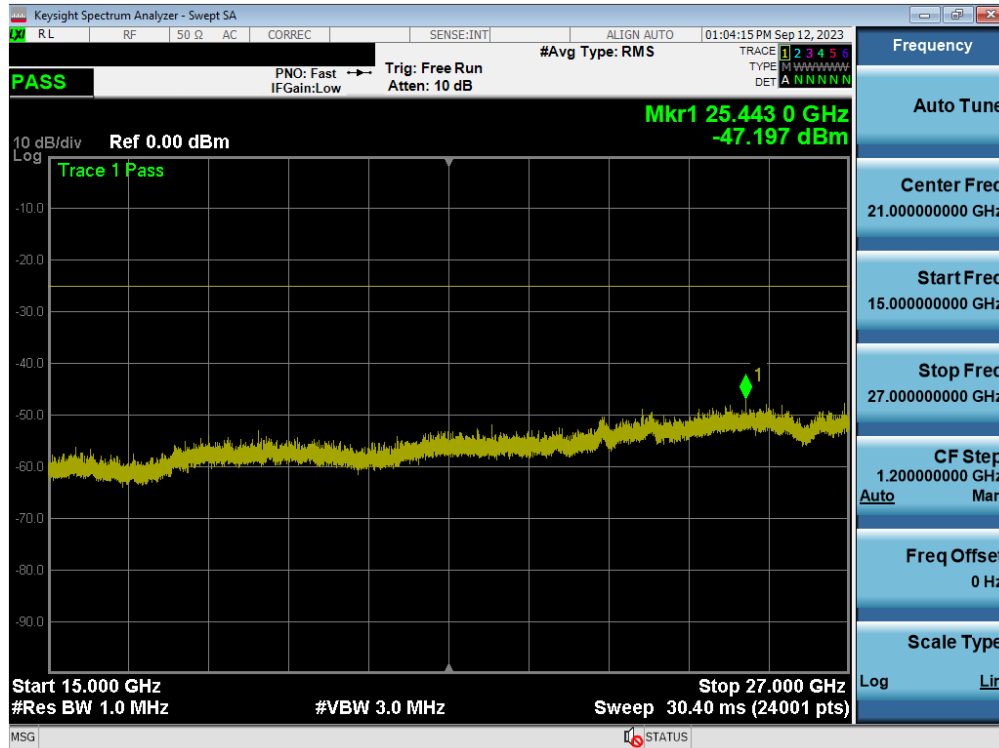


Plot 7-99. Conducted Spurious Plot (LTE Band 41(PC3) - 20MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel – Ant2)



Plot 7-100. Conducted Spurious Plot (LTE Band 41(PC3) - 20MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel – Ant2)

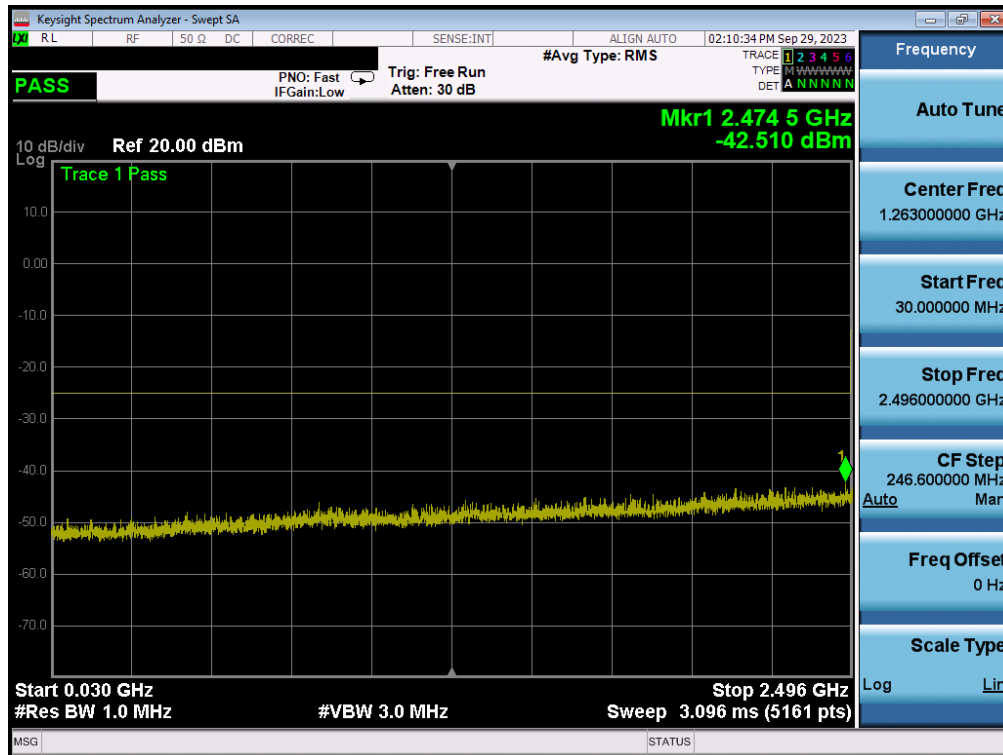
| | | | |
|---|--------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMS928JPN | PART 27 MEASUREMENT REPORT | | Approved by: Technical Manager |
| Test Report S/N: 1M2312110124-18.A3L | Test Dates: 09/12/2023 – 2/2/2024 | EUT Type: Portable Handset | Page 78 of 123 |



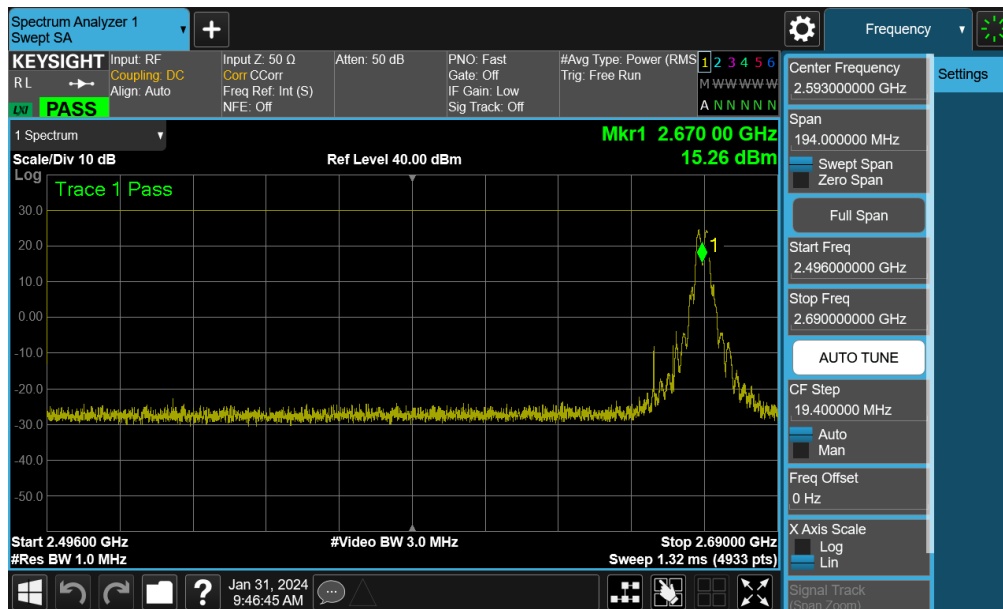
Plot 7-101. Conducted Spurious Plot (LTE Band 41(PC3) - 20MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel – Ant2)

| | | | |
|---|--------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMS928JPN | PART 27 MEASUREMENT REPORT | | Approved by: Technical Manager |
| Test Report S/N: 1M2312110124-18.A3L | Test Dates: 09/12/2023 – 2/2/2024 | EUT Type: Portable Handset | Page 79 of 123 |

ULCA - LTE B41(PC3) – Ant2

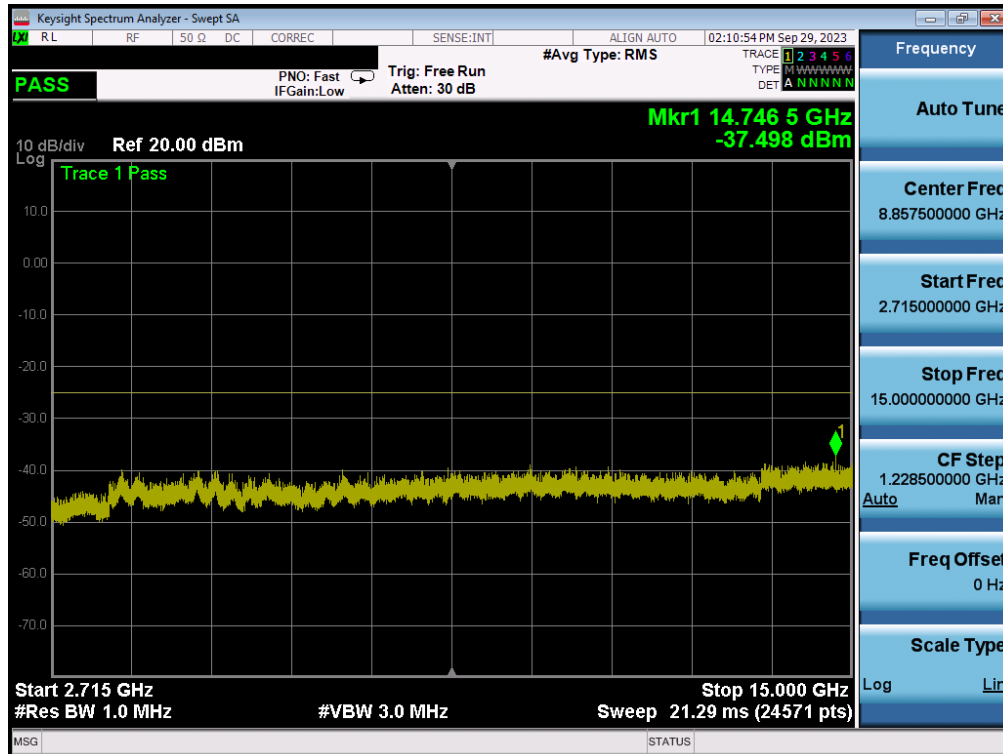


Plot 7-102. Conducted Spurious Plot (ULCA LTE B41(PC3) - 20MHz QPSK - RB Size 1, RB Offset 0 - High Channel Ant2)



Plot 7-103. Conducted Spurious Plot (ULCA LTE B41(PC3) - 20MHz QPSK - RB Size 1, RB Offset 0 - High Channel Ant2)

| | | | |
|---|--------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMS928JPN | PART 27 MEASUREMENT REPORT | | Approved by: Technical Manager |
| Test Report S/N: 1M2312110124-18.A3L | Test Dates: 09/12/2023 – 2/2/2024 | EUT Type: Portable Handset | Page 80 of 123 |

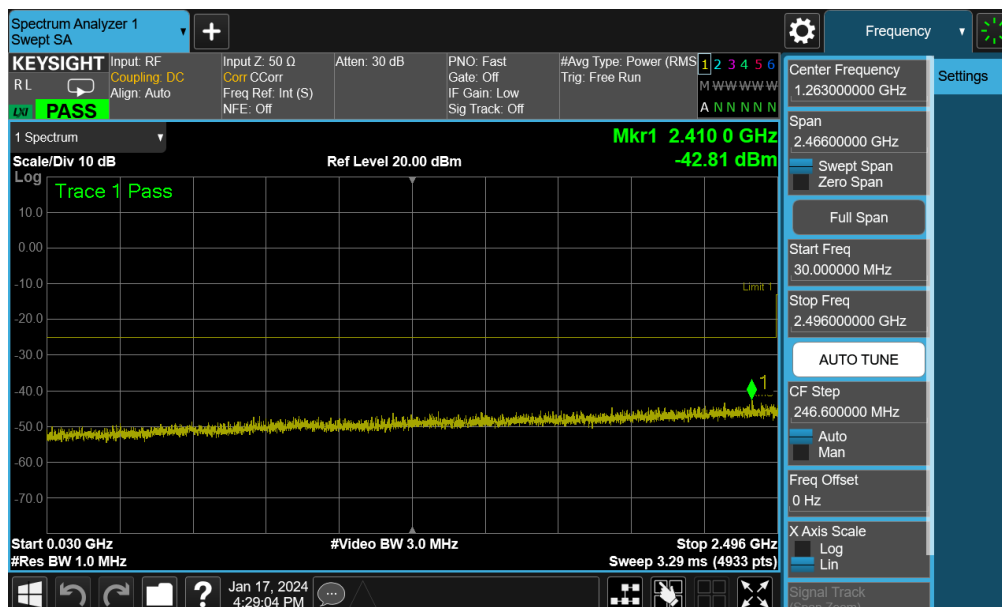


| Mode | Bandwidth | Channel | Range [MHz] | Level [dBm] | Limit [dBm] | Margin [dB] |
|-----------|-----------|---------|-------------------|-------------|-------------|-------------|
| NR-n41PC3 | 100MHz | Low | 30.0 - 2470.0 | -43.17 | -25 | -18.17 |
| | | Low | 2690.0 - 15000.0 | -37.99 | -25 | -12.99 |
| | | Low | 15000.0 - 27000.0 | -52.32 | -25 | -27.32 |
| | | Mid | 30.0 - 2496.0 | -43.14 | -25 | -18.14 |
| | | Mid | 2690.0 - 15000.0 | -38.06 | -25 | -13.06 |
| | | Mid | 15000.0 - 27000.0 | -51.49 | -25 | -26.49 |
| | | High | 30.0 - 2496.0 | -42.81 | -25 | -17.81 |
| | | High | 2715.0 - 15000.0 | -37.65 | -25 | -12.65 |
| | | High | 15000.0 - 27000.0 | -52.01 | -25 | -27.01 |

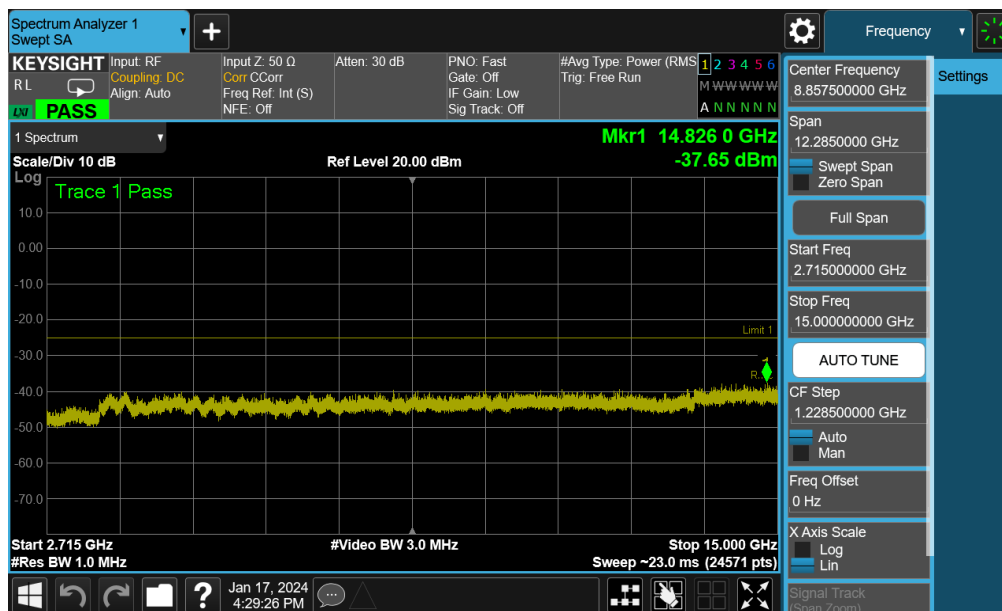
Table 7 23. Conducted Spurious Emission Results – NR – Ant2

| | | | |
|--|---|--------------------------------------|--|
| FCC ID: A3LSMS928JPN | PART 27 MEASUREMENT REPORT | | Approved by: Technical Manager |
| Test Report S/N: 1M2312110124-18.A3L | Test Dates: 09/12/2023 – 2/2/2024 | EUT Type: Portable Handset | Page 82 of 123 |

NR Band n41 – Ant2

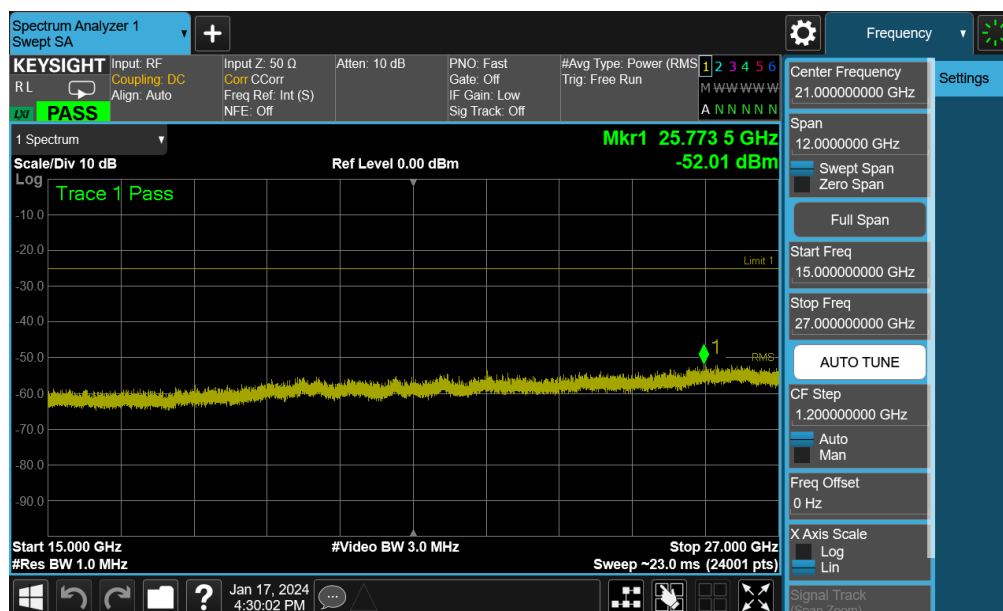


Plot 7-106. Conducted Spurious Plot (NR Band n41 - 100MHz QPSK - RB Size 1, RB Offset 0 - High Channel – Ant2)



Plot 7-107. Conducted Spurious Plot (NR Band n41 - 100MHz QPSK - RB Size 1, RB Offset 0 - High Channel – Ant2)

| | | | |
|---|--------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMS928JPN | PART 27 MEASUREMENT REPORT | | Approved by: Technical Manager |
| Test Report S/N: 1M2312110124-18.A3L | Test Dates: 09/12/2023 – 2/2/2024 | EUT Type: Portable Handset | Page 83 of 123 |



Plot 7-108. Conducted Spurious Plot (NR Band n41 - 100MHz QPSK - RB Size 1, RB Offset 0 - High Channel – Ant2)

| | | | |
|---|--------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMS928JPN | PART 27 MEASUREMENT REPORT | | Approved by: Technical Manager |
| Test Report S/N: 1M2312110124-18.A3L | Test Dates: 09/12/2023 – 2/2/2024 | EUT Type: Portable Handset | Page 84 of 123 |

7.5 Band Edge Emissions at Antenna Terminal

Test Overview

All out of band emissions are measured with a spectrum analyzer connected to the antenna terminal of the EUT while the EUT is operating at maximum power, and at the appropriate frequencies. All data rates were investigated to determine the worst-case configuration. All modes of operation were investigated and the worst-case configuration results are reported in this section.

The minimum permissible attenuation level for Band 30 is $> 43 + 10 \log_{10} (P[\text{Watts}]$ at 2300-2305MHz & 2345-2360MHz, $> 55 + 10 \log_{10} (P[\text{Watts}]$ at 2320-2324MHz & 2341-2345MHz, $> 61 + 10 \log_{10} (P[\text{Watts}]$ at 2324-2328MHz & 2337-2341MHz, $> 67 + 10 \log_{10} (P[\text{Watts}]$ at 2288-2292MHz & 2328-2337MHz, and $> 70 + 10 \log_{10} (P[\text{Watts}]$ at frequencies $< 2288\text{MHz}$ & $> 2365\text{MHz}$.

The minimum permissible attenuation level for Band 41 is as noted in the Test Notes on the following page.

Test Procedure Used

ANSI C63.26-2015 – Section 5.7.3

Test Settings

1. Start and stop frequency were set such that the band edge would be placed in the center of the plot
2. Span was set large enough so as to capture all out of band emissions near the band edge
3. RBW $\geq 1\%$ of the emission bandwidth
4. VBW $\geq 3 \times \text{RBW}$
5. Detector = RMS
6. Number of sweep points $\geq 2 \times \text{Span/RBW}$
7. Trace mode = trace average for continuous emissions, max hold for pulse emissions
8. Sweep time = auto couple
9. The trace was allowed to stabilize

Test Setup

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

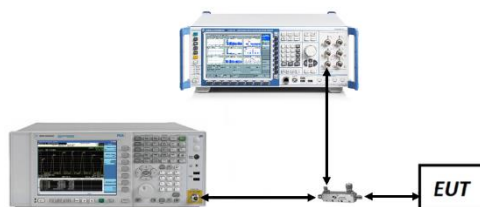


Figure 7-4. Test Instrument & Measurement Setup

| | | | |
|---|--------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMS928JPN | PART 27 MEASUREMENT REPORT | | Approved by: Technical Manager |
| Test Report S/N: 1M2312110124-18.A3L | Test Dates: 09/12/2023 – 2/2/2024 | EUT Type: Portable Handset | Page 85 of 123 |

Test Notes

1. Per 27.53(m) for operations in the BRS/EBS bands, the attenuation factor shall be not less than $40 + 10 \log (P)$ dB on all frequencies between the channel edge and 5 megahertz from the channel edge, $43 + 10 \log (P)$ dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and $55 + 10 \log (P)$ dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth. In addition, the attenuation factor shall not be less than $43 + 10 \log (P)$ dB on all frequencies between 2490.5 MHz and 2496 MHz and $55 + 10 \log (P)$ dB at or below 2490.5 MHz.
2. For NR operation, all subcarrier spacings (SCS) and transmission schemes (e.g. CP-OFDM and DFT-s-OFDM) were investigated to determine the worst-case configuration. All modes of operation were investigated and the worst-case configuration results are reported in this section.

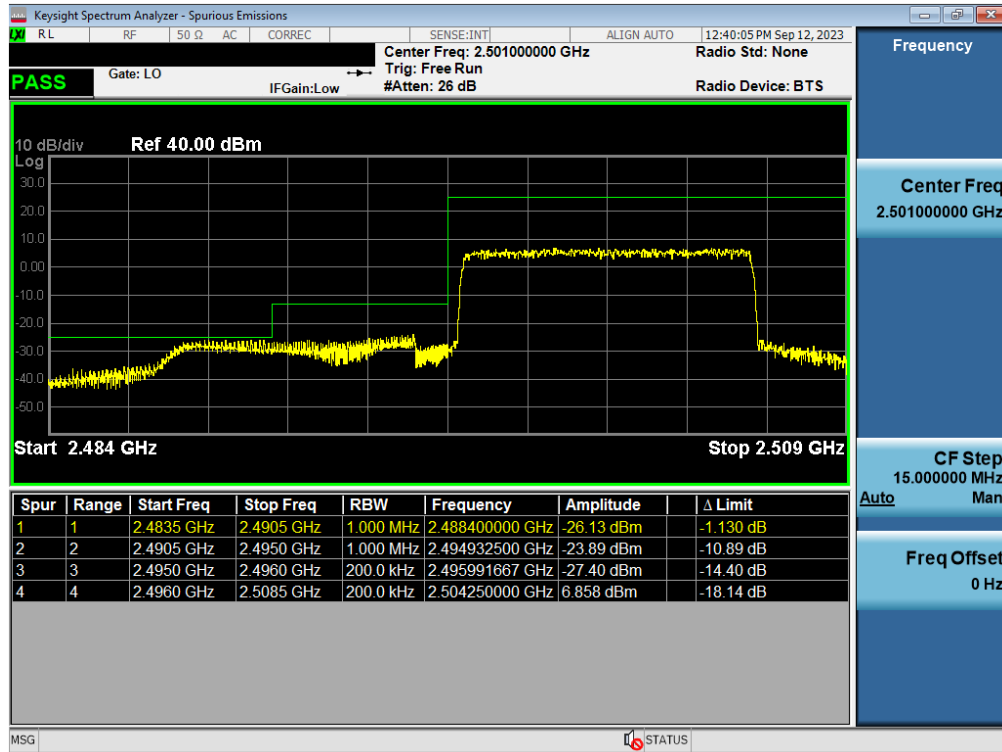
| | | | |
|--|---|--------------------------------------|--|
| FCC ID: A3LSMS928JPN | PART 27 MEASUREMENT REPORT | | Approved by: Technical Manager |
| Test Report S/N: 1M2312110124-18.A3L | Test Dates: 09/12/2023 – 2/2/2024 | EUT Type: Portable Handset | Page 86 of 123 |

| Mode | Bandwidth | Channel | Test Case | Level [dBm] | Limit [dBm] | Margin [dB] |
|---------------------|-----------|---------|-----------|-------------|-------------|-------------|
| LTE B41 PC3 | 20 MHz | Low | Band Edge | -28.90 | -25 | -3.90 |
| | | High | Band Edge | -41.05 | -25 | -16.05 |
| | 15 MHz | Low | Band Edge | -27.39 | -25 | -2.39 |
| | | High | Band Edge | -39.54 | -25 | -14.54 |
| | 10 MHz | Low | Band Edge | -26.13 | -25 | -1.13 |
| | | High | Band Edge | -37.01 | -25 | -12.01 |
| | 5 MHz | Low | Band Edge | -19.90 | -13 | -6.90 |
| | | High | Band Edge | -18.80 | -10 | -8.80 |
| LTE-B41 PC3 ULCA | 20+20MHz | Low | Band Edge | -33.38 | -25 | -8.38 |
| | | High | Band Edge | -21.58 | -13 | -8.58 |

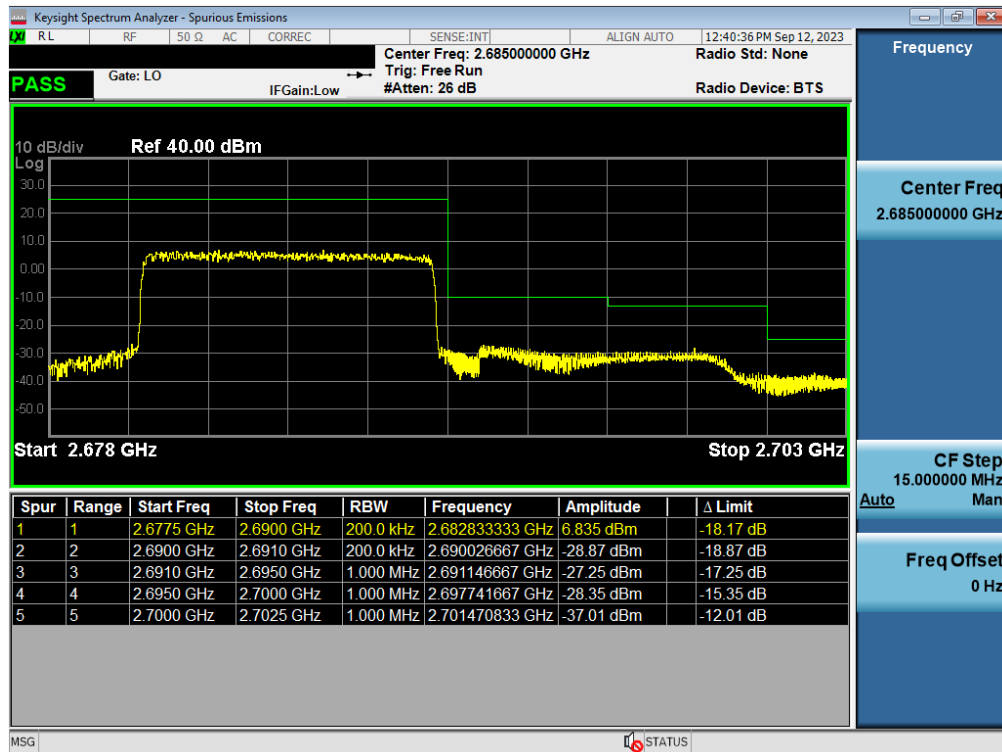
Table 7-11. Conducted Band Edge Test Results – LTE – Ant1

| | | | |
|--|---|--------------------------------------|--|
| FCC ID: A3LSMS928JPN | PART 27 MEASUREMENT REPORT | | Approved by: Technical Manager |
| Test Report S/N: 1M2312110124-18.A3L | Test Dates: 09/12/2023 – 2/2/2024 | EUT Type: Portable Handset | Page 87 of 123 |

LTE Band 41(PC3) – Ant1



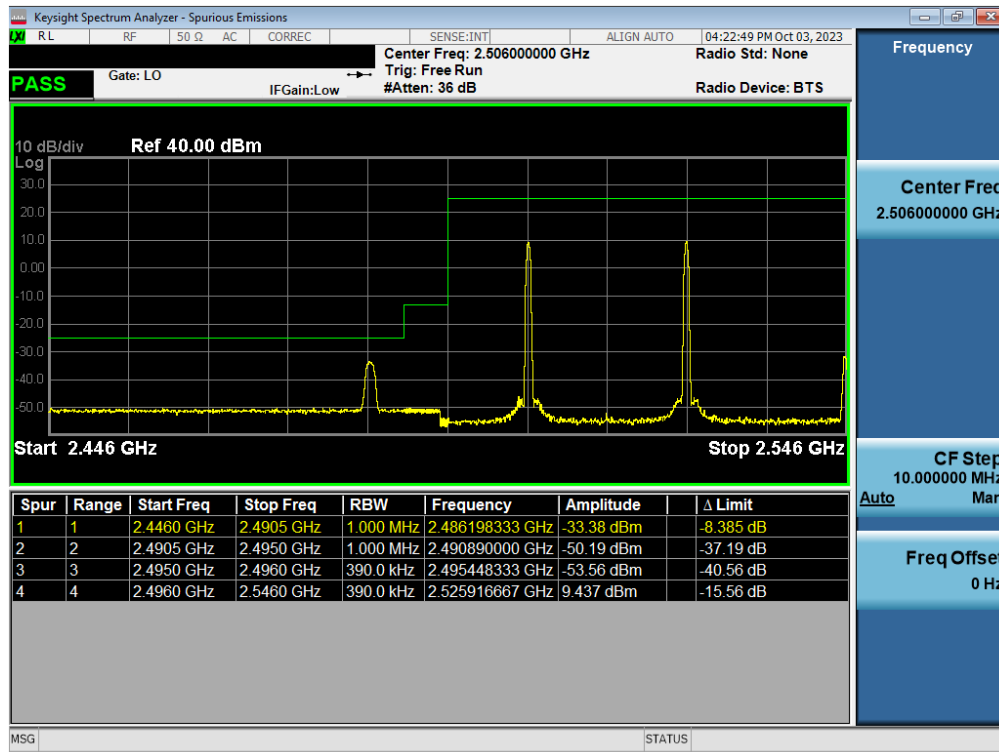
Plot 7-109. Lower ACP Plot (LTE Band 41(PC3) - 10MHz QPSK – Full RB - Ant1)



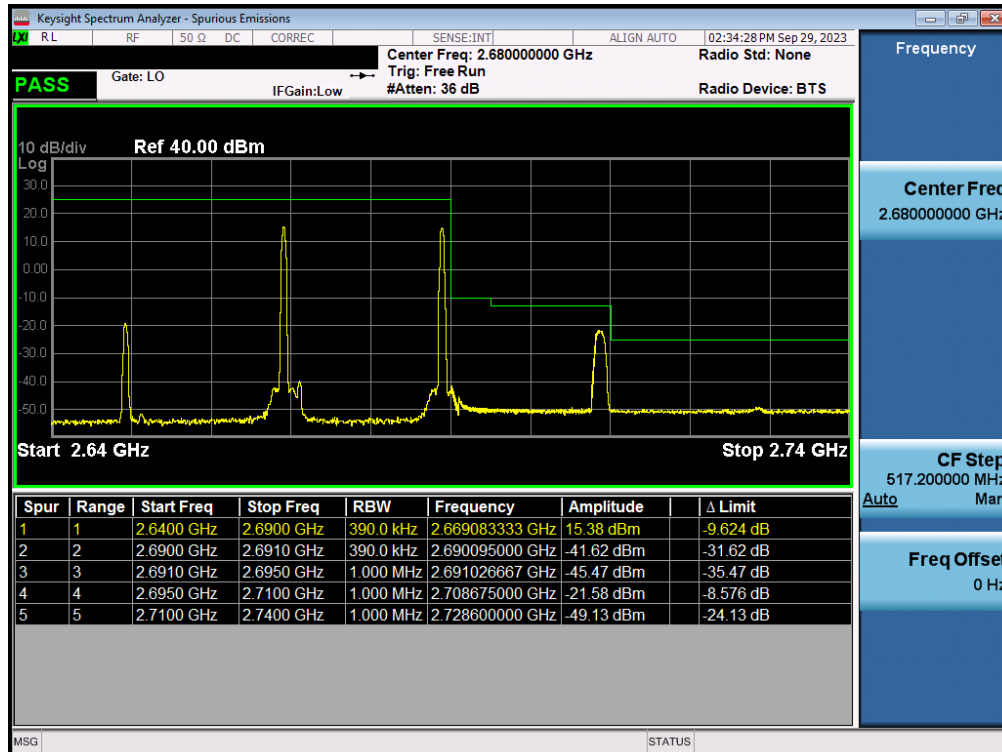
Plot 7-110. Upper ACP Plot (LTE Band 41(PC3) - 10MHz QPSK – Full RB - Ant1)

| | | | |
|---|--------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMS928JPN | PART 27 MEASUREMENT REPORT | | Approved by: Technical Manager |
| Test Report S/N: 1M2312110124-18.A3L | Test Dates: 09/12/2023 – 2/2/2024 | EUT Type: Portable Handset | Page 88 of 123 |

ULCA - LTE Band 41(PC3) – Ant1



Plot 7-111. Lower ACP Plot – A-MPR (ULCA LTE B41(PC3) - 20MHz QPSK – Full RB - Ant1)



Plot 7-112. Upper ACP Plot (ULCA LTE B41(PC3) - 20MHz QPSK – Full RB - Ant1)

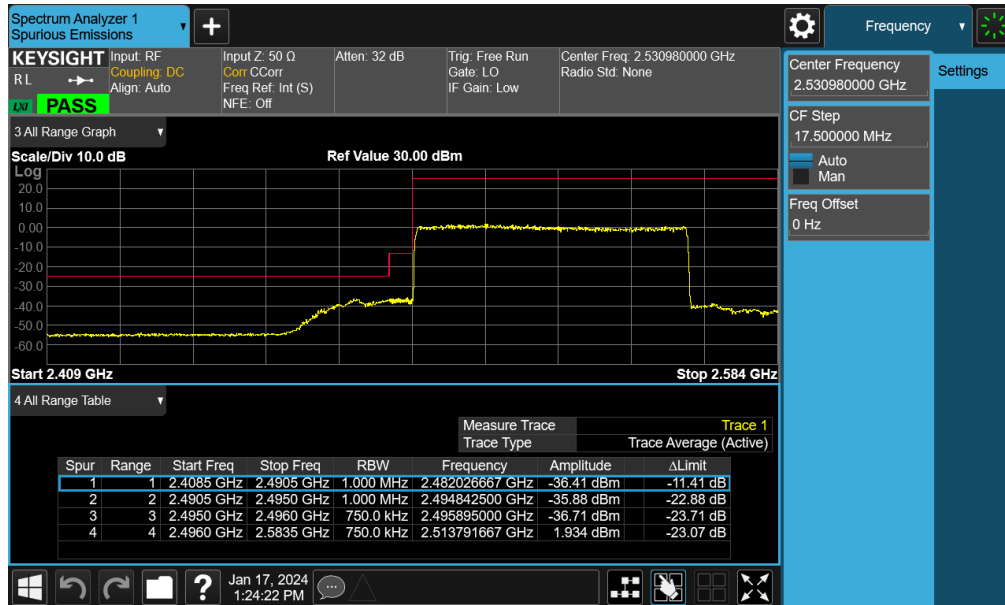
| | | | |
|---|--------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMS928JPN | PART 27 MEASUREMENT REPORT | | Approved by: Technical Manager |
| Test Report S/N: 1M2312110124-18.A3L | Test Dates: 09/12/2023 – 2/2/2024 | EUT Type: Portable Handset | Page 89 of 123 |

| Mode | Bandwidth | Channel | Test Case | Level [dBm] | Limit [dBm] | Margin [dB] |
|--------|-----------|---------|-----------|-------------|-------------|-------------|
| NR n41 | 100 MHz | Low | Band Edge | -37.89 | -25 | -12.89 |
| | | High | Band Edge | -29.96 | -10 | -19.96 |
| | 90 MHz | Low | Band Edge | -37.17 | -25 | -12.17 |
| | | High | Band Edge | -30.40 | -10 | -20.40 |
| | 80 MHz | Low | Band Edge | -36.76 | -25 | -11.76 |
| | | High | Band Edge | -33.14 | -10 | -23.14 |
| | 70 MHz | Low | Band Edge | -36.41 | -25 | -11.41 |
| | | High | Band Edge | -36.94 | -10 | -26.94 |
| | 60 MHz | Low | Band Edge | -36.76 | -25 | -11.76 |
| | | High | Band Edge | -27.74 | -10 | -17.74 |
| | 50 MHz | Low | Band Edge | -40.41 | -25 | -15.41 |
| | | High | Band Edge | -36.20 | -10 | -26.20 |
| | 40 MHz | Low | Band Edge | -42.49 | -25 | -17.49 |
| | | High | Band Edge | -34.90 | -10 | -24.90 |
| | 30 MHz | Low | Band Edge | -41.11 | -25 | -16.11 |
| | | High | Band Edge | -49.51 | -25 | -24.51 |
| | 25 MHz | Low | Band Edge | -39.80 | -25 | -14.80 |
| | | High | Band Edge | -39.78 | -25 | -14.78 |
| | 20 MHz | Low | Band Edge | -37.23 | -25 | -12.23 |
| | | High | Band Edge | -45.86 | -25 | -20.86 |
| | 15 MHz | Low | Band Edge | -38.37 | -25 | -13.37 |
| | | High | Band Edge | -47.75 | -25 | -22.75 |
| | 10 MHz | Low | Band Edge | -37.83 | -25 | -12.83 |
| | | High | Band Edge | -34.38 | -10 | -24.38 |

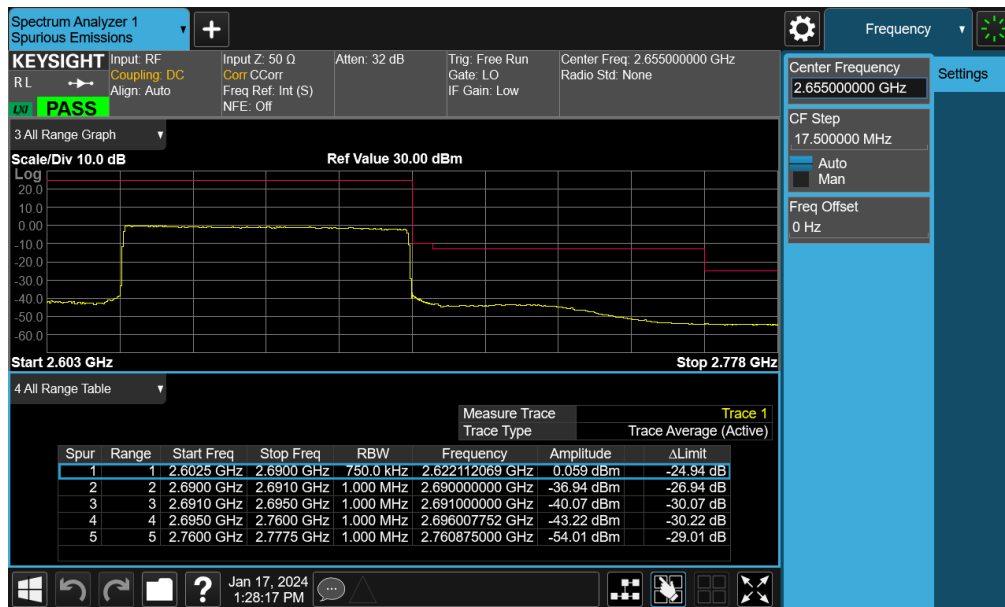
Table 7-12. Conducted Band Edge Results – NR – Ant1

| | | | |
|---|--------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMS928JPN | PART 27 MEASUREMENT REPORT | | Approved by: Technical Manager |
| Test Report S/N: 1M2312110124-18.A3L | Test Dates: 09/12/2023 – 2/2/2024 | EUT Type: Portable Handset | Page 90 of 123 |

NR Band n41 – ANT 1



Plot 7-113. Lower ACP Plot (NR Band n41 - 70MHz DFT-s-QPSK – Full RB Configuration)



Plot 7-114. Upper ACP Plot (NR Band n41 - 70MHz DFT-s-QPSK – Full RB Configuration)

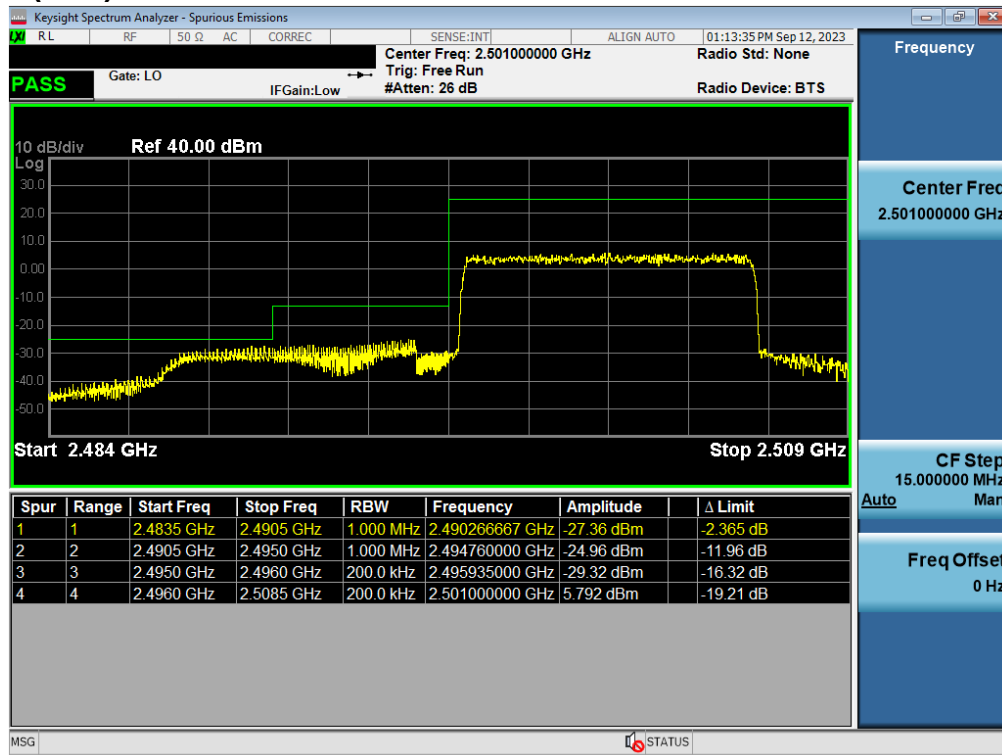
| | | | |
|---|--------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMS928JPN | PART 27 MEASUREMENT REPORT | | Approved by: Technical Manager |
| Test Report S/N: 1M2312110124-18.A3L | Test Dates: 09/12/2023 – 2/2/2024 | EUT Type: Portable Handset | Page 91 of 123 |

| Mode | Bandwidth | Channel | Test Case | Level [dBm] | Limit [dBm] | Margin [dB] |
|---------------------|-----------|---------|-----------|-------------|-------------|-------------|
| LTE B41 PC3 | 20 MHz | Low | Band Edge | -27.48 | -25 | -2.48 |
| | | High | Band Edge | -31.10 | -13 | -18.10 |
| | 15 MHz | Low | Band Edge | -28.56 | -25 | -3.56 |
| | | High | Band Edge | -40.09 | -25 | -15.09 |
| | 10 MHz | Low | Band Edge | -27.36 | -25 | -2.36 |
| | | High | Band Edge | -39.02 | -25 | -14.02 |
| | 5 MHz | Low | Band Edge | -17.81 | -13 | -4.81 |
| | | High | Band Edge | -23.90 | -10 | -13.90 |
| LTE-B41 PC3 ULCA | 20+20MHz | Low | Band Edge | -29.59 | -25 | -4.59 |
| | | High | Band Edge | -36.92 | -25 | -11.92 |

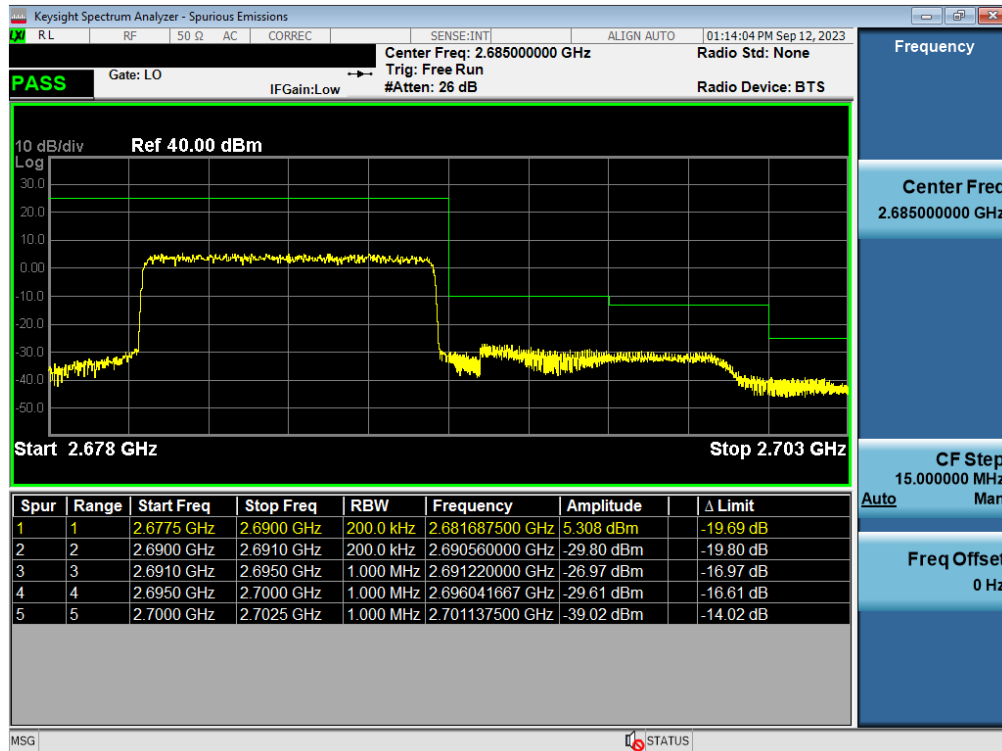
Table 7-13. Conducted Band Edge Test Results – LTE – Ant2

| | | | |
|--|---|--------------------------------------|--|
| FCC ID: A3LSMS928JPN | PART 27 MEASUREMENT REPORT | | Approved by: Technical Manager |
| Test Report S/N: 1M2312110124-18.A3L | Test Dates: 09/12/2023 – 2/2/2024 | EUT Type: Portable Handset | Page 92 of 123 |

LTE Band 41(PC3) – Ant2



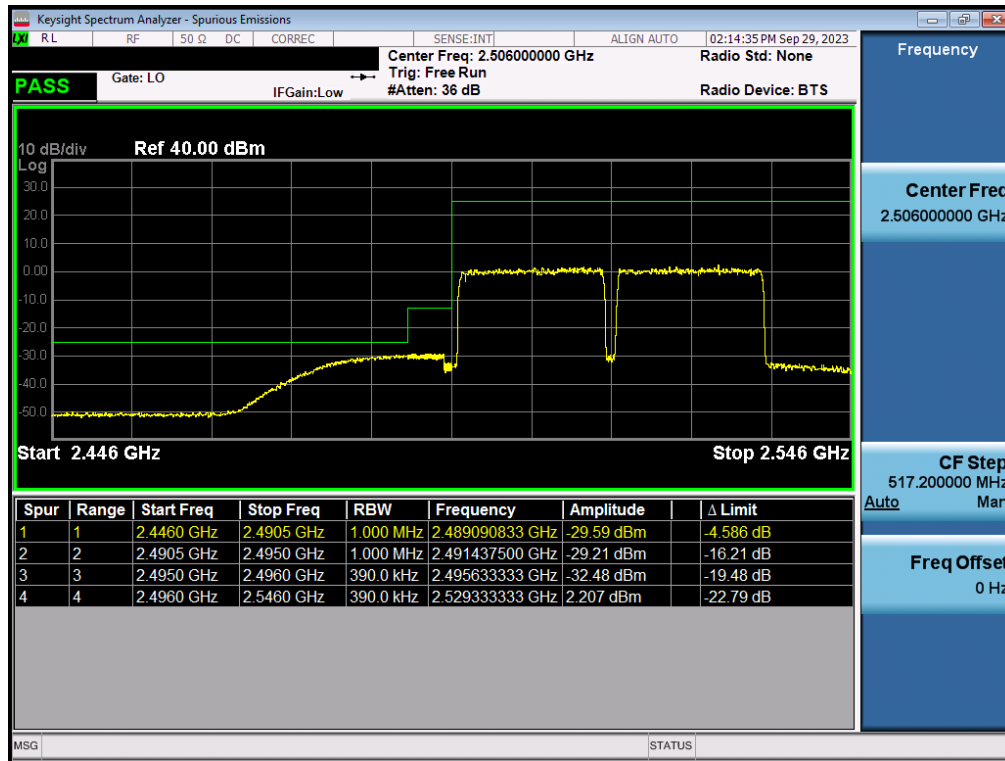
Plot 7-115. Lower ACP Plot (LTE Band 41(PC3) - 10MHz QPSK – Full RB - Ant2)



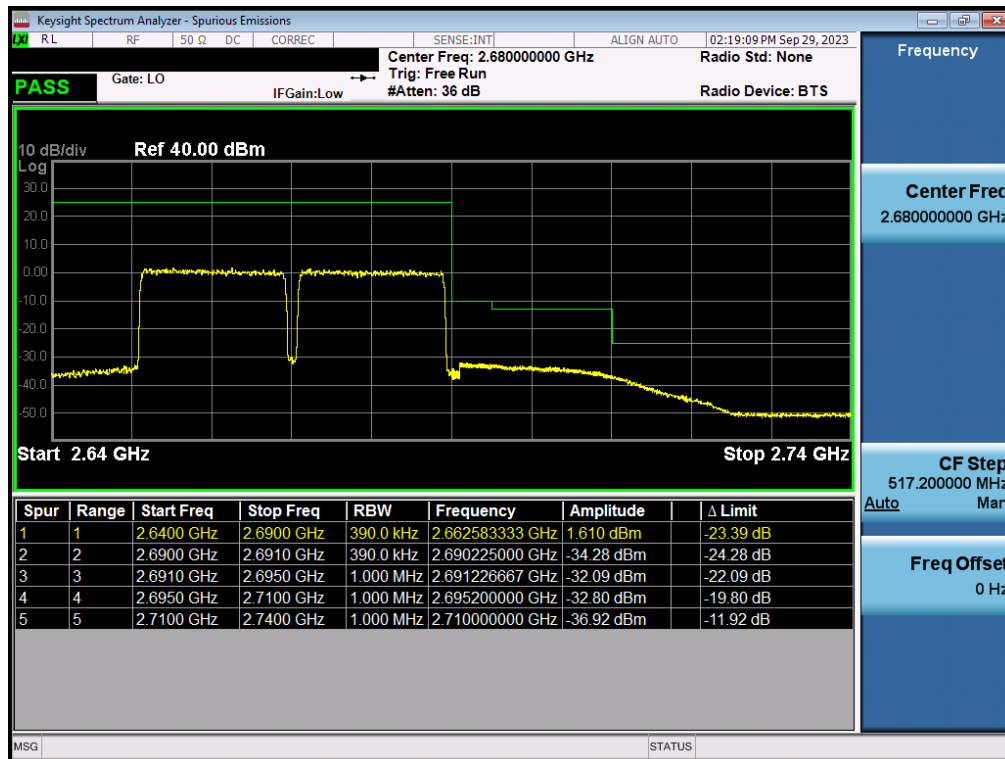
Plot 7-116. Upper ACP Plot (LTE Band 41(PC3) - 10MHz QPSK – Full RB - Ant2)

| | | | |
|---|--------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMS928JPN | PART 27 MEASUREMENT REPORT | | Approved by: Technical Manager |
| Test Report S/N: 1M2312110124-18.A3L | Test Dates: 09/12/2023 – 2/2/2024 | EUT Type: Portable Handset | Page 93 of 123 |

ULCA - LTE Band 41(PC3) – Ant2



Plot 7-117. Lower ACP Plot (ULCA LTE B41(PC3) - 20MHz QPSK – Full RB - Ant2)



Plot 7-118. Upper ACP Plot (ULCA LTE B41(PC3) - 20MHz QPSK – Full RB - Ant2)

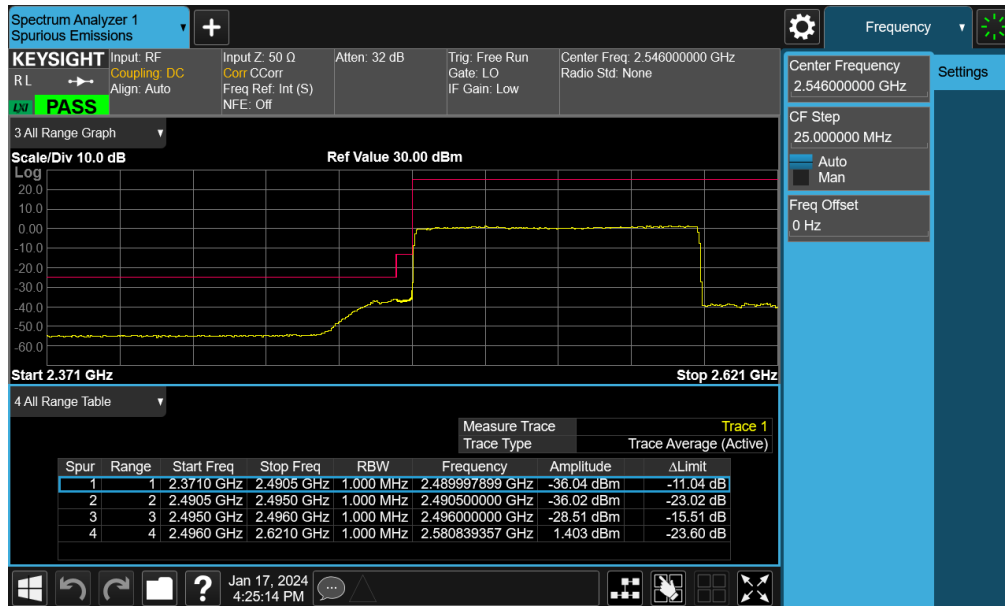
| | | | |
|---|--------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMS928JPN | PART 27 MEASUREMENT REPORT | | Approved by: Technical Manager |
| Test Report S/N: 1M2312110124-18.A3L | Test Dates: 09/12/2023 – 2/2/2024 | EUT Type: Portable Handset | Page 94 of 123 |

| Mode | Bandwidth | Channel | Test Case | Level [dBm] | Limit [dBm] | Margin [dB] |
|--------|-----------|---------|-----------|-------------|-------------|-------------|
| NR n41 | 100 MHz | Low | Band Edge | -36.04 | -25 | -11.04 |
| | | High | Band Edge | -29.46 | -10 | -19.46 |
| | 90 MHz | Low | Band Edge | -38.45 | -25 | -13.45 |
| | | High | Band Edge | -31.72 | -10 | -21.72 |
| | 80 MHz | Low | Band Edge | -37.61 | -25 | -12.61 |
| | | High | Band Edge | -33.04 | -10 | -23.04 |
| | 70 MHz | Low | Band Edge | -37.51 | -25 | -12.51 |
| | | High | Band Edge | -35.59 | -10 | -25.59 |
| | 60 MHz | Low | Band Edge | -41.88 | -25 | -16.88 |
| | | High | Band Edge | -27.64 | -10 | -17.64 |
| | 50 MHz | Low | Band Edge | -44.16 | -25 | -19.16 |
| | | High | Band Edge | -49.32 | -25 | -24.32 |
| | 40 MHz | Low | Band Edge | -43.32 | -25 | -18.32 |
| | | High | Band Edge | -34.10 | -10 | -24.10 |
| | 30 MHz | Low | Band Edge | -43.23 | -25 | -18.23 |
| | | High | Band Edge | -47.48 | -25 | -22.48 |
| | 25 MHz | Low | Band Edge | -43.63 | -25 | -18.63 |
| | | High | Band Edge | -43.60 | -25 | -18.80 |
| | 20 MHz | Low | Band Edge | -39.15 | -25 | -14.15 |
| | | High | Band Edge | -45.33 | -25 | -20.33 |
| | 15 MHz | Low | Band Edge | -45.68 | -25 | -20.68 |
| | | High | Band Edge | -45.51 | -25 | -20.51 |
| | 10 MHz | Low | Band Edge | -44.99 | -25 | -19.99 |
| | | High | Band Edge | -32.81 | -10 | -22.81 |

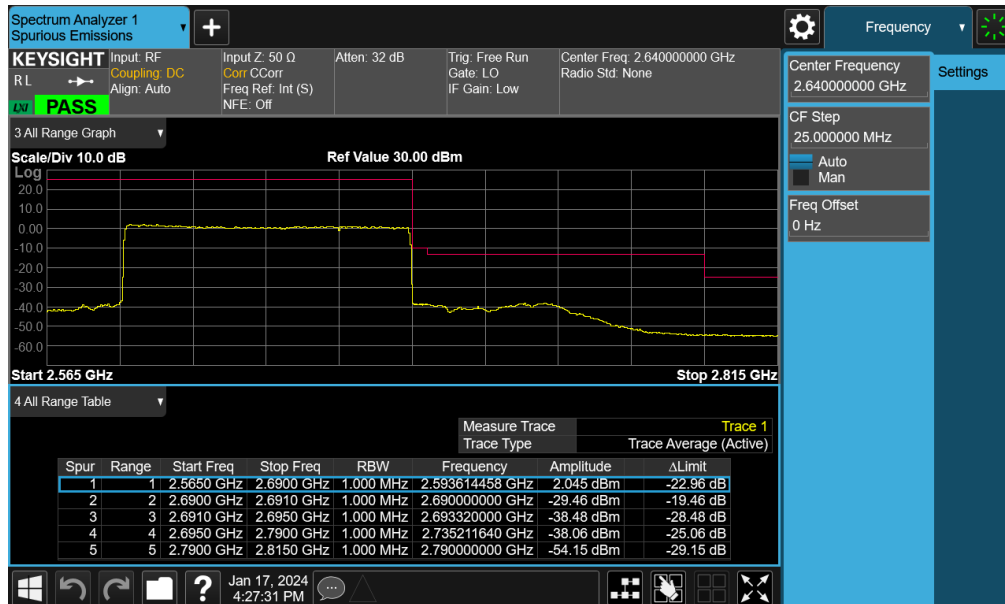
Table 7-14. Conducted Band Edge Results - NR - Ant2

| | | | |
|--|---|--------------------------------------|--|
| FCC ID: A3LSMS928JPN | PART 27 MEASUREMENT REPORT | | Approved by: Technical Manager |
| Test Report S/N: 1M2312110124-18.A3L | Test Dates: 09/12/2023 – 2/2/2024 | EUT Type: Portable Handset | Page 95 of 123 |

NR Band n41 – Ant2



Plot 7-119. Lower ACP Plot (NR Band n41 - 100MHz CP-OFDM-QPSK – Full RB Configuration – Ant2)



Plot 7-120. Upper ACP Plot (NR Band n41 - 100MHz CP-OFDM-QPSK – Full RB Configuration – Ant2)

| | | | |
|---|--------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMS928JPN | PART 27 MEASUREMENT REPORT | | Approved by: Technical Manager |
| Test Report S/N: 1M2312110124-18.A3L | Test Dates: 09/12/2023 – 2/2/2024 | EUT Type: Portable Handset | Page 96 of 123 |

7.6 Radiated Power (EIRP)

Test Overview

Equivalent Isotropic Radiated Power (EIRP) measurements are performed using the substitution method described in ANSI C63.26-2015 with the EUT transmitting into an integral antenna. Measurements are performed using vertically and horizontally polarized broadband horn antennas. All measurements are performed as RMS average measurements while the EUT is operating at maximum power, and at the appropriate frequencies.

Test Procedures Used

ANSI C63.26-2015 – Section 5.2.4.4

Test Settings

1. Radiated power measurements are performed using the signal analyzer's "channel power" measurement capability for signals with continuous operation. For signals with burst transmission, the signal analyzer's "time domain power" measurement capability is used
2. RBW = 1 – 5% of the expected OBW, not to exceed 1MHz
3. VBW $\geq 3 \times$ RBW
4. Span = 1.5 times the OBW
5. No. of sweep points $\geq 2 \times$ span / RBW
6. Detector = RMS
7. Trigger is set to "free run" for signals with continuous operation with the sweep times set to "auto". Trigger is set to enable triggering only on full power bursts with the sweep time set less than or equal to the transmission burst duration.
8. The integration bandwidth was roughly set equal to the measured OBW of the signal for signals with continuous operation. For signals with burst transmission, the "gating" function was enabled to ensure that measurements are performed during times in which the transmitter is operating at its maximum power.
9. Trace mode = trace averaging (RMS) over 100 sweeps
10. The trace was allowed to stabilize.

| | | | |
|---|--------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMS928JPN | PART 27 MEASUREMENT REPORT | | Approved by: Technical Manager |
| Test Report S/N: 1M2312110124-18.A3L | Test Dates: 09/12/2023 – 2/2/2024 | EUT Type: Portable Handset | Page 97 of 123 |

Test Setup

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

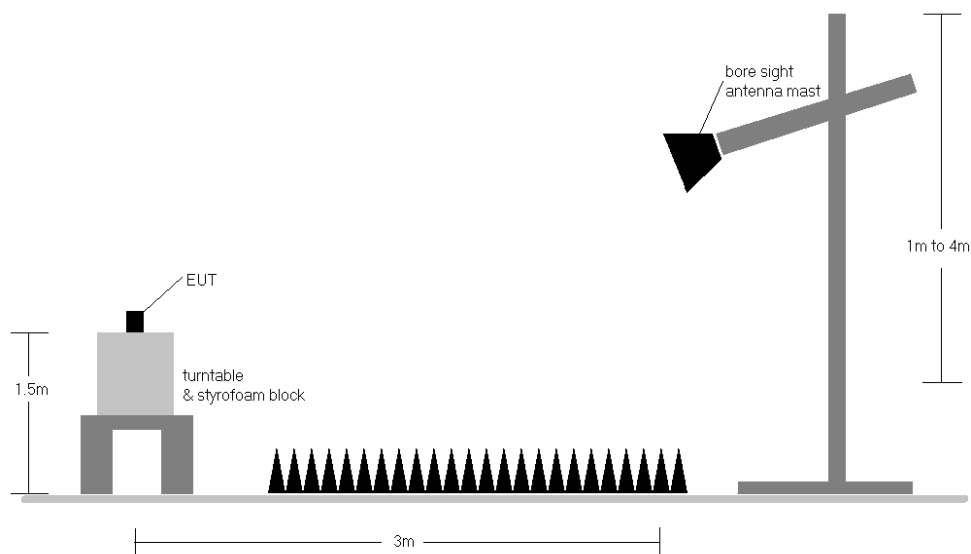


Figure 7-5. Radiated Test Setup >1GHz

Test Notes

- 1) The EUT was tested in three orthogonal planes and in all possible test configurations and positioning. The worst-case emissions are reported with the EUT positioning, modulations, RB sizes and offsets, and channel bandwidth configurations shown in the tables below.
- 2) This unit was tested with its standard battery.
- 3) For NR operation, all subcarrier spacings (SCS) and transmission schemes (e.g. CP-OFDM and DFT-s-OFDM) were investigated to determine the worst-case configuration. All modes of operation were investigated and the worst-case configuration results are reported in this section.

| | | | |
|--|---|--------------------------------------|--|
| FCC ID: A3LSMS928JPN | PART 27 MEASUREMENT REPORT | | Approved by: Technical Manager |
| Test Report S/N: 1M2312110124-18.A3L | Test Dates: 09/12/2023 – 2/2/2024 | EUT Type: Portable Handset | Page 98 of 123 |

| Bandwidth | Mod. | Frequency [MHz] | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Ant. Gain [dBi] | RB Size/Offset | Substitute Level [dBm] | EIRP [dBm] | EIRP [Watts] | EIRP Limit [dBm] | Margin [dB] |
|-----------|--------|-----------------|-----------------|---------------------|----------------------------|-----------------|----------------|------------------------|--------------|--------------|------------------|-------------|
| 20 MHz | QPSK | 2506.0 | H | 140 | 253 | 4.17 | 1 / 50 | 17.36 | 21.53 | 0.142 | 33.01 | -11.48 |
| | QPSK | 2593.0 | H | 136 | 247 | 4.00 | 1 / 50 | 18.87 | 22.87 | 0.194 | 33.01 | -10.14 |
| | QPSK | 2680.0 | H | 129 | 245 | 4.50 | 1 / 0 | 19.45 | 23.95 | 0.248 | 33.01 | -9.06 |
| | 16-QAM | 2680.0 | H | 129 | 245 | 4.50 | 1 / 0 | 18.55 | 23.05 | 0.202 | 33.01 | -9.96 |
| 15 MHz | QPSK | 2503.5 | H | 140 | 253 | 4.17 | 1 / 74 | 17.19 | 21.36 | 0.137 | 33.01 | -11.65 |
| | QPSK | 2593.0 | H | 136 | 247 | 4.00 | 1 / 0 | 18.70 | 22.70 | 0.186 | 33.01 | -10.31 |
| | QPSK | 2682.5 | H | 129 | 245 | 4.51 | 1 / 0 | 19.24 | 23.75 | 0.237 | 33.01 | -9.26 |
| | 16-QAM | 2682.5 | H | 129 | 245 | 4.51 | 1 / 0 | 18.68 | 23.19 | 0.209 | 33.01 | -9.82 |
| 10 MHz | QPSK | 2501.0 | H | 140 | 253 | 4.17 | 1 / 0 | 17.10 | 21.27 | 0.134 | 33.01 | -11.74 |
| | QPSK | 2593.0 | H | 136 | 247 | 4.00 | 1 / 0 | 18.58 | 22.58 | 0.181 | 33.01 | -10.43 |
| | QPSK | 2685.0 | H | 129 | 245 | 4.52 | 1 / 25 | 19.29 | 23.81 | 0.241 | 33.01 | -9.20 |
| | 16-QAM | 2685.0 | H | 129 | 245 | 4.52 | 1 / 25 | 18.22 | 22.74 | 0.188 | 33.01 | -10.27 |
| 5 MHz | QPSK | 2498.5 | H | 140 | 253 | 4.16 | 1 / 24 | 17.30 | 21.46 | 0.140 | 33.01 | -11.55 |
| | QPSK | 2593.0 | H | 136 | 247 | 4.00 | 1 / 0 | 18.72 | 22.72 | 0.187 | 33.01 | -10.29 |
| | QPSK | 2687.5 | H | 129 | 245 | 4.53 | 1 / 0 | 19.35 | 23.88 | 0.244 | 33.01 | -9.13 |
| | 16-QAM | 2687.5 | H | 129 | 245 | 4.53 | 1 / 0 | 18.32 | 22.85 | 0.193 | 33.01 | -10.16 |
| 20 MHz | WCP | 2680.0 | H | 116 | 154 | 4.50 | 1 / 50 | 18.00 | 22.50 | 0.178 | 33.01 | -10.51 |

Table 7-121. EIRP Data (LTE Band 41(PC3)) – Ant1

| | | | |
|---|--------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMS928JPN | PART 27 MEASUREMENT REPORT | | Approved by: Technical Manager |
| Test Report S/N: 1M2312110124-18.A3L | Test Dates: 09/12/2023 – 2/2/2024 | EUT Type: Portable Handset | Page 99 of 123 |

| Bandwidth | Mod. | Frequency [MHz] | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Ant. Gain [dBi] | RB Size/Offset | Substitute Level [dBm] | EIRP [dBm] | EIRP [Watts] | EIRP Limit [dBm] | Margin [dB] |
|-----------|----------------|-----------------|-----------------|---------------------|----------------------------|-----------------|----------------|------------------------|------------|--------------|------------------|-------------|
| 100 MHz | π/2 BPSK | 2546.01 | H | 101 | 337 | 4.19 | 1 / 136 | 15.95 | 20.14 | 0.103 | 33.01 | -12.87 |
| | π/2 BPSK | 2592.99 | H | 105 | 337 | 4.00 | 1 / 136 | 16.98 | 20.98 | 0.125 | 33.01 | -12.03 |
| | π/2 BPSK | 2640.00 | H | 100 | 338 | 4.31 | 1 / 1 | 17.58 | 21.89 | 0.155 | 33.01 | -11.12 |
| | QPSK | 2546.01 | H | 101 | 337 | 4.19 | 1 / 136 | 16.04 | 20.23 | 0.105 | 33.01 | -12.78 |
| | QPSK | 2592.99 | H | 105 | 337 | 4.00 | 1 / 136 | 17.00 | 21.00 | 0.126 | 33.01 | -12.01 |
| | QPSK | 2640.00 | H | 100 | 338 | 4.31 | 1 / 1 | 17.70 | 22.01 | 0.159 | 33.01 | -11.00 |
| 90 MHz | 16-QAM | 2640.00 | H | 100 | 338 | 4.31 | 1 / 1 | 15.70 | 20.01 | 0.100 | 33.01 | -13.00 |
| | π/2 BPSK | 2541.00 | H | 101 | 337 | 4.19 | 1 / 122 | 15.69 | 19.88 | 0.097 | 33.01 | -13.13 |
| | π/2 BPSK | 2592.99 | H | 105 | 337 | 4.00 | 1 / 122 | 16.74 | 20.74 | 0.119 | 33.01 | -12.27 |
| | π/2 BPSK | 2644.98 | H | 100 | 338 | 4.36 | 1 / 122 | 17.40 | 21.76 | 0.150 | 33.01 | -11.25 |
| | QPSK | 2541.00 | H | 101 | 337 | 4.19 | 1 / 122 | 15.89 | 20.08 | 0.102 | 33.01 | -12.93 |
| | QPSK | 2592.99 | H | 105 | 337 | 4.00 | 1 / 122 | 16.83 | 20.83 | 0.121 | 33.01 | -12.18 |
| 80 MHz | QPSK | 2644.98 | H | 100 | 338 | 4.36 | 1 / 122 | 17.57 | 21.93 | 0.156 | 33.01 | -11.08 |
| | 16-QAM | 2644.98 | H | 100 | 338 | 4.36 | 1 / 122 | 16.00 | 20.35 | 0.108 | 33.01 | -12.66 |
| | π/2 BPSK | 2536.02 | H | 101 | 337 | 4.19 | 1 / 108 | 15.79 | 19.98 | 0.099 | 33.01 | -13.03 |
| | π/2 BPSK | 2592.99 | H | 105 | 337 | 4.00 | 1 / 108 | 16.64 | 20.64 | 0.116 | 33.01 | -12.37 |
| | π/2 BPSK | 2649.99 | H | 100 | 338 | 4.40 | 1 / 215 | 17.49 | 21.89 | 0.155 | 33.01 | -11.12 |
| | QPSK | 2536.02 | H | 101 | 337 | 4.19 | 1 / 108 | 16.06 | 20.25 | 0.106 | 33.01 | -12.76 |
| 70 MHz | QPSK | 2592.99 | H | 105 | 337 | 4.00 | 1 / 108 | 16.96 | 20.96 | 0.125 | 33.01 | -12.05 |
| | QPSK | 2649.99 | H | 100 | 338 | 4.40 | 1 / 215 | 17.44 | 21.84 | 0.153 | 33.01 | -11.18 |
| | 16-QAM | 2649.99 | H | 100 | 338 | 4.40 | 1 / 215 | 15.62 | 20.02 | 0.100 | 33.01 | -12.99 |
| | π/2 BPSK | 2531.01 | H | 101 | 337 | 4.18 | 1 / 187 | 15.91 | 20.09 | 0.102 | 33.01 | -12.92 |
| | π/2 BPSK | 2592.99 | H | 105 | 337 | 4.00 | 1 / 94 | 16.79 | 20.79 | 0.120 | 33.01 | -12.22 |
| | π/2 BPSK | 2655.00 | H | 100 | 338 | 4.42 | 1 / 94 | 17.50 | 21.92 | 0.155 | 33.01 | -11.09 |
| 60 MHz | QPSK | 2531.01 | H | 101 | 337 | 4.18 | 1 / 187 | 16.18 | 20.37 | 0.109 | 33.01 | -12.64 |
| | QPSK | 2592.99 | H | 105 | 337 | 4.00 | 1 / 94 | 16.50 | 20.49 | 0.112 | 33.01 | -12.52 |
| | QPSK | 2655.00 | H | 100 | 338 | 4.42 | 1 / 94 | 17.13 | 21.55 | 0.143 | 33.01 | -11.46 |
| | 16-QAM | 2655.00 | H | 100 | 338 | 4.42 | 1 / 94 | 16.07 | 20.48 | 0.112 | 33.01 | -12.53 |
| | π/2 BPSK | 2526.00 | H | 101 | 337 | 4.18 | 1 / 160 | 15.85 | 20.03 | 0.101 | 33.01 | -12.98 |
| | π/2 BPSK | 2592.99 | H | 105 | 337 | 4.00 | 1 / 1 | 16.74 | 20.74 | 0.119 | 33.01 | -12.27 |
| 50 MHz | π/2 BPSK | 2659.98 | H | 100 | 338 | 4.43 | 1 / 1 | 17.50 | 21.93 | 0.156 | 33.01 | -11.08 |
| | QPSK | 2526.00 | H | 101 | 337 | 4.18 | 1 / 160 | 16.15 | 20.33 | 0.108 | 33.01 | -12.68 |
| | QPSK | 2592.99 | H | 105 | 337 | 4.00 | 1 / 1 | 16.64 | 20.63 | 0.116 | 33.01 | -12.38 |
| | QPSK | 2659.98 | H | 100 | 338 | 4.43 | 1 / 1 | 17.53 | 21.97 | 0.157 | 33.01 | -11.04 |
| | 16-QAM | 2592.99 | H | 105 | 337 | 4.00 | 1 / 1 | 16.28 | 20.27 | 0.107 | 33.01 | -12.74 |
| | π/2 BPSK | 2521.02 | H | 101 | 337 | 4.18 | 1 / 66 | 16.05 | 20.23 | 0.106 | 33.01 | -12.78 |
| 40 MHz | π/2 BPSK | 2592.99 | H | 105 | 337 | 4.00 | 1 / 66 | 17.19 | 21.18 | 0.131 | 33.01 | -11.83 |
| | π/2 BPSK | 2664.99 | H | 100 | 338 | 4.45 | 1 / 66 | 17.69 | 22.14 | 0.164 | 33.01 | -10.87 |
| | QPSK | 2521.02 | H | 101 | 337 | 4.18 | 1 / 66 | 16.30 | 20.48 | 0.112 | 33.01 | -12.53 |
| | QPSK | 2592.99 | H | 105 | 337 | 4.00 | 1 / 1 | 16.73 | 20.73 | 0.118 | 33.01 | -12.28 |
| | QPSK | 2664.99 | H | 100 | 338 | 4.45 | 1 / 66 | 18.20 | 22.65 | 0.184 | 33.01 | -10.36 |
| | 16-QAM | 2664.99 | H | 100 | 338 | 4.45 | 1 / 66 | 15.59 | 20.04 | 0.101 | 33.01 | -12.97 |
| 30 MHz | π/2 BPSK | 2516.01 | H | 101 | 337 | 4.18 | 1 / 104 | 15.79 | 19.97 | 0.099 | 33.01 | -13.04 |
| | π/2 BPSK | 2592.99 | H | 105 | 337 | 4.00 | 1 / 104 | 17.16 | 21.16 | 0.131 | 33.01 | -11.85 |
| | π/2 BPSK | 2670.00 | H | 100 | 338 | 4.47 | 1 / 104 | 17.85 | 22.32 | 0.170 | 33.01 | -10.69 |
| | QPSK | 2516.01 | H | 101 | 337 | 4.18 | 1 / 104 | 16.60 | 20.78 | 0.120 | 33.01 | -12.23 |
| | QPSK | 2592.99 | H | 105 | 337 | 4.00 | 1 / 104 | 17.72 | 21.72 | 0.149 | 33.01 | -11.29 |
| | QPSK | 2670.00 | H | 100 | 338 | 4.47 | 1 / 104 | 17.06 | 21.53 | 0.142 | 33.01 | -11.48 |
| 25 MHz | 16-QAM | 2592.99 | H | 105 | 337 | 4.00 | 1 / 104 | 16.12 | 20.12 | 0.103 | 33.01 | -12.89 |
| | π/2 BPSK | 2511.00 | H | 101 | 337 | 4.18 | 1 / 1 | 15.88 | 20.06 | 0.101 | 33.01 | -12.95 |
| | π/2 BPSK | 2592.99 | H | 105 | 337 | 4.00 | 1 / 1 | 17.06 | 21.06 | 0.128 | 33.01 | -11.95 |
| | π/2 BPSK | 2674.98 | H | 100 | 338 | 4.48 | 1 / 1 | 17.59 | 22.07 | 0.161 | 33.01 | -10.94 |
| | QPSK | 2511.00 | H | 101 | 337 | 4.18 | 1 / 1 | 16.84 | 21.02 | 0.126 | 33.01 | -11.99 |
| | QPSK | 2592.99 | H | 105 | 337 | 4.00 | 1 / 1 | 16.56 | 20.56 | 0.114 | 33.01 | -12.45 |
| 20 MHz | QPSK | 2674.98 | H | 100 | 338 | 4.48 | 1 / 1 | 17.85 | 22.34 | 0.171 | 33.01 | -10.67 |
| | 16-QAM | 2592.99 | H | 105 | 337 | 4.00 | 1 / 1 | 16.13 | 20.13 | 0.103 | 33.01 | -12.88 |
| | π/2 BPSK | 2508.50 | H | 101 | 337 | 4.17 | 1 / 1 | 15.54 | 19.72 | 0.094 | 33.01 | -13.29 |
| | π/2 BPSK | 2592.99 | H | 105 | 337 | 4.00 | 1 / 39 | 16.56 | 20.56 | 0.114 | 33.01 | -12.45 |
| | π/2 BPSK | 2677.48 | H | 100 | 338 | 4.49 | 1 / 39 | 17.02 | 21.51 | 0.142 | 33.01 | -11.50 |
| | QPSK | 2508.50 | H | 101 | 337 | 4.17 | 1 / 1 | 15.86 | 20.03 | 0.101 | 33.01 | -12.98 |
| 15 MHz | QPSK | 2592.99 | H | 105 | 337 | 4.00 | 1 / 39 | 16.79 | 20.79 | 0.120 | 33.01 | -12.22 |
| | QPSK | 2677.48 | H | 100 | 338 | 4.49 | 1 / 39 | 17.14 | 21.63 | 0.146 | 33.01 | -11.38 |
| | 16-QAM | 2592.99 | H | 105 | 337 | 4.00 | 1 / 39 | 16.01 | 20.01 | 0.100 | 33.01 | -13.00 |
| | π/2 BPSK | 2506.02 | H | 101 | 337 | 4.17 | 1 / 1 | 15.92 | 20.09 | 0.102 | 33.01 | -12.92 |
| | π/2 BPSK | 2592.99 | H | 105 | 337 | 4.00 | 1 / 1 | 17.52 | 21.52 | 0.142 | 33.01 | -11.49 |
| | π/2 BPSK | 2679.99 | H | 100 | 338 | 4.50 | 1 / 1 | 17.19 | 21.70 | 0.148 | 33.01 | -11.31 |
| 10 MHz | QPSK | 2506.02 | H | 101 | 337 | 4.17 | 1 / 1 | 15.48 | 19.65 | 0.092 | 33.01 | -13.36 |
| | QPSK | 2592.99 | H | 105 | 337 | 4.00 | 1 / 1 | 17.35 | 21.35 | 0.136 | 33.01 | -11.66 |
| | QPSK | 2679.99 | H | 100 | 338 | 4.50 | 1 / 1 | 17.04 | 21.54 | 0.143 | 33.01 | -11.47 |
| | 16-QAM | 2679.99 | H | 100 | 338 | 4.50 | 1 / 1 | 14.55 | 19.05 | 0.080 | 33.01 | -13.96 |
| | π/2 BPSK | 2503.50 | H | 101 | 337 | 4.17 | 1 / 1 | 16.15 | 20.33 | 0.108 | 33.01 | -12.68 |
| | π/2 BPSK | 2592.99 | H | 105 | 337 | 4.00 | 1 / 1 | 17.45 | 21.45 | 0.140 | 33.01 | -11.56 |
| 100 MHz | π/2 BPSK | 2682.48 | H | 100 | 338 | 4.51 | 1 / 36 | 17.49 | 22.00 | 0.159 | 33.01 | -11.01 |
| | QPSK | 2503.50 | H | 101 | 337 | 4.17 | 1 / 1 | 16.46 | 20.63 | 0.116 | 33.01 | -12.38 |
| | QPSK | 2592.99 | H | 105 | 337 | 4.00 | 1 / 1 | 16.36 | 20.36 | 0.109 | 33.01 | -12.65 |
| | QPSK | 2682.48 | H | 100 | 338 | 4.51 | 1 / 36 | 17.97 | 22.48 | 0.177 | 33.01 | -10.53 |
| | 16-QAM | 2682.48 | H | 100 | 338 | 4.51 | 1 / 36 | 15.41 | 19.92 | 0.098 | 33.01 | -13.09 |
| | π/2 BPSK | 2501.01 | H | 101 | 337 | 4.17 | 1 / 12 | 16.32 | 20.49 | 0.112 | 33.01 | -12.52 |
| 100 MHz | π/2 BPSK | 2592.99 | H | 105 | 337 | 4.00 | 1 / 1 | 17.00 | 21.00 | 0.126 | 33.01 | -12.01 |
| | π/2 BPSK | 2685.00 | H | 100 | 338 | 4.52 | 1 / 12 | 18.23 | 22.74 | 0.188 | 33.01 | -10.27 |
| | QPSK | 2501.01 | H | 101 | 337 | 4.17 | 1 / 12 | 16.06 | 20.23 | 0.105 | 33.01 | -12.78 |
| | QPSK | 2592.99 | H | 105 | 337 | 4.00 | 1 / 1 | 17.77 | 21.77 | 0.150 | 33.01 | -11.24 |
| | QPSK | 2685.00 | H | 100 | 338 | 4.52 | 1 / 12 | 18.00 | 22.52 | 0.179 | 33.01 | -10.49 |
| | 16-QAM | 2592.99 | H | 105 | 337 | 4.00 | 1 / 1 | 16.45 | 20.45 | 0.111 | 33.01 | -12.56 |
| 100 MHz | QPSK (CP-OFDM) | #N/A | H | 100 | 338 | 4.31 | 1 / 1 | 15.92 | 20.23 | 0.106 | 33.01 | -12.78 |
| | QPSK (WCP) | 2640.00 | H | 100 | 338 | 4.31 | 1 / 136 | 16.16 | 20.47 | 0.112 | 33.01 | -12.54 |

Table 7-122. EIRP Data (NR Band n41) – Ant1

| | | | |
|---|--------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMS928JPN | PART 27 MEASUREMENT REPORT | | Approved by: Technical Manager |
| Test Report S/N: 1M2312110124-18.A3L | Test Dates: 09/12/2023 – 2/2/2024 | EUT Type: Portable Handset | Page 100 of 123 |

| Bandwidth | Mod. | Frequency [MHz] | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Ant. Gain [dBi] | RB Size/Offset | Substitute Level [dBm] | EIRP [dBm] | EIRP [Watts] | EIRP Limit [dBm] | Margin [dB] |
|-----------|--------|-----------------|-----------------|---------------------|----------------------------|-----------------|----------------|------------------------|--------------|--------------|------------------|-------------|
| 20 MHz | QPSK | 2506.0 | H | 120 | 321 | 4.17 | 1 / 0 | 19.44 | 23.61 | 0.230 | 33.01 | -9.40 |
| | QPSK | 2593.0 | H | 145 | 315 | 4.00 | 1 / 0 | 19.07 | 23.07 | 0.203 | 33.01 | -9.94 |
| | QPSK | 2680.0 | H | 131 | 310 | 4.50 | 1 / 0 | 19.01 | 23.51 | 0.224 | 33.01 | -9.50 |
| | 16-QAM | 2506.0 | H | 120 | 321 | 4.17 | 1 / 0 | 18.21 | 22.38 | 0.173 | 33.01 | -10.63 |
| 15 MHz | QPSK | 2503.5 | H | 120 | 321 | 4.17 | 1 / 74 | 19.75 | 23.92 | 0.247 | 33.01 | -9.09 |
| | QPSK | 2593.0 | H | 145 | 315 | 4.00 | 1 / 37 | 18.82 | 22.82 | 0.192 | 33.01 | -10.19 |
| | QPSK | 2682.5 | H | 131 | 310 | 4.51 | 1 / 74 | 18.96 | 23.47 | 0.223 | 33.01 | -9.54 |
| | 16-QAM | 2682.5 | H | 131 | 310 | 4.51 | 1 / 74 | 17.94 | 22.45 | 0.176 | 33.01 | -10.56 |
| 10 MHz | QPSK | 2501.0 | H | 120 | 321 | 4.17 | 1 / 49 | 19.53 | 23.70 | 0.235 | 33.01 | -9.31 |
| | QPSK | 2593.0 | H | 145 | 315 | 4.00 | 1 / 49 | 18.76 | 22.76 | 0.189 | 33.01 | -10.25 |
| | QPSK | 2685.0 | H | 131 | 310 | 4.52 | 1 / 49 | 18.93 | 23.45 | 0.221 | 33.01 | -9.56 |
| | 16-QAM | 2685.0 | H | 131 | 310 | 4.52 | 1 / 49 | 17.67 | 22.18 | 0.165 | 33.01 | -10.83 |
| 5 MHz | QPSK | 2498.5 | H | 120 | 321 | 4.16 | 1 / 24 | 18.91 | 23.07 | 0.203 | 33.01 | -9.94 |
| | QPSK | 2593.0 | H | 145 | 315 | 4.00 | 1 / 24 | 19.34 | 23.34 | 0.216 | 33.01 | -9.67 |
| | QPSK | 2687.5 | H | 131 | 310 | 4.53 | 1 / 24 | 18.57 | 23.10 | 0.204 | 33.01 | -9.91 |
| | 16-QAM | 2687.5 | H | 131 | 310 | 4.53 | 1 / 24 | 18.52 | 23.05 | 0.202 | 33.01 | -9.96 |
| 20 MHz | WCP | 2506.0 | H | 153 | 303 | 4.17 | 1 / 0 | 18.30 | 22.47 | 0.177 | 33.01 | -10.54 |

Table 7-123. EIRP Data (LTE Band 41(PC3)) – Ant2

| | | | |
|--|---|--------------------------------------|--|
| FCC ID: A3LSMS928JPN | PART 27 MEASUREMENT REPORT | | Approved by: Technical Manager |
| Test Report S/N: 1M2312110124-18.A3L | Test Dates: 09/12/2023 – 2/2/2024 | EUT Type: Portable Handset | Page 101 of 123 |

| Bandwidth | Mod. | Frequency [MHz] | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Ant. Gain [dBi] | RB Size/Offset | Substitute Level [dBm] | EIRP [dBm] | EIRP [Watts] | EIRP Limit [dBm] | Margin [dB] |
|-----------|----------------|-----------------|-----------------|---------------------|----------------------------|-----------------|----------------|------------------------|--------------|--------------|------------------|-------------|
| 100 MHz | 11/2 BPSK | 2546.01 | H | 100 | 128 | 4.19 | 1 / 136 | 18.37 | 22.56 | 0.180 | 33.01 | -10.45 |
| | 11/2 BPSK | 2592.99 | H | 100 | 113 | 4.00 | 1 / 136 | 18.20 | 22.20 | 0.166 | 33.01 | -10.81 |
| | 11/2 BPSK | 2640.00 | H | 115 | 116 | 4.31 | 1 / 1 | 19.11 | 23.42 | 0.220 | 33.01 | -9.59 |
| | QPSK | 2546.01 | H | 100 | 128 | 4.19 | 1 / 136 | 18.43 | 22.62 | 0.183 | 33.01 | -10.39 |
| | QPSK | 2592.99 | H | 100 | 113 | 4.00 | 1 / 136 | 18.37 | 22.37 | 0.173 | 33.01 | -10.64 |
| | QPSK | 2640.00 | H | 115 | 116 | 4.31 | 1 / 1 | 18.82 | 23.13 | 0.206 | 33.01 | -9.88 |
| | 16-QAM | 2640.00 | H | 115 | 116 | 4.31 | 1 / 1 | 17.11 | 21.42 | 0.139 | 33.01 | -11.59 |
| 90 MHz | 11/2 BPSK | 2541.00 | H | 100 | 128 | 4.19 | 1 / 122 | 18.30 | 22.49 | 0.177 | 33.01 | -10.52 |
| | 11/2 BPSK | 2592.99 | H | 100 | 113 | 4.00 | 1 / 122 | 18.09 | 22.08 | 0.162 | 33.01 | -10.93 |
| | 11/2 BPSK | 2644.98 | H | 115 | 116 | 4.36 | 1 / 122 | 19.29 | 23.64 | 0.231 | 33.01 | -9.37 |
| | QPSK | 2541.00 | H | 100 | 128 | 4.19 | 1 / 122 | 18.68 | 22.87 | 0.194 | 33.01 | -10.14 |
| | QPSK | 2592.99 | H | 100 | 113 | 4.00 | 1 / 122 | 18.57 | 22.57 | 0.181 | 33.01 | -10.44 |
| | QPSK | 2644.98 | H | 115 | 116 | 4.36 | 1 / 122 | 18.79 | 23.14 | 0.206 | 33.01 | -9.87 |
| | 16-QAM | 2541.00 | H | 100 | 128 | 4.19 | 1 / 122 | 17.66 | 21.85 | 0.153 | 33.01 | -11.16 |
| 80 MHz | 11/2 BPSK | 2536.02 | H | 100 | 128 | 4.19 | 1 / 108 | 18.36 | 22.54 | 0.180 | 33.01 | -10.47 |
| | 11/2 BPSK | 2592.99 | H | 100 | 113 | 4.00 | 1 / 1 | 18.40 | 22.40 | 0.174 | 33.01 | -10.61 |
| | 11/2 BPSK | 2649.99 | H | 115 | 116 | 4.40 | 1 / 1 | 19.14 | 23.54 | 0.226 | 33.01 | -9.47 |
| | QPSK | 2536.02 | H | 100 | 128 | 4.19 | 1 / 108 | 18.83 | 23.01 | 0.200 | 33.01 | -10.00 |
| | QPSK | 2592.99 | H | 100 | 113 | 4.00 | 1 / 1 | 18.47 | 22.47 | 0.177 | 33.01 | -10.54 |
| | QPSK | 2649.99 | H | 115 | 116 | 4.40 | 1 / 1 | 18.43 | 22.83 | 0.192 | 33.01 | -10.18 |
| | 16-QAM | 2536.02 | H | 100 | 128 | 4.19 | 1 / 108 | 17.84 | 22.02 | 0.159 | 33.01 | -10.99 |
| 70 MHz | 11/2 BPSK | 2531.01 | H | 100 | 128 | 4.18 | 1 / 94 | 18.44 | 22.62 | 0.183 | 33.01 | -10.39 |
| | 11/2 BPSK | 2592.99 | H | 100 | 113 | 4.00 | 1 / 1 | 18.01 | 22.01 | 0.159 | 33.01 | -11.00 |
| | 11/2 BPSK | 2655.00 | H | 115 | 116 | 4.42 | 1 / 187 | 19.08 | 23.50 | 0.224 | 33.01 | -9.51 |
| | QPSK | 2531.01 | H | 100 | 128 | 4.18 | 1 / 94 | 18.96 | 23.14 | 0.206 | 33.01 | -9.87 |
| | QPSK | 2592.99 | H | 100 | 113 | 4.00 | 1 / 1 | 18.66 | 22.66 | 0.184 | 33.01 | -10.35 |
| | QPSK | 2655.00 | H | 115 | 116 | 4.42 | 1 / 187 | 18.58 | 23.00 | 0.199 | 33.01 | -10.01 |
| | 16-QAM | 2655.00 | H | 115 | 116 | 4.42 | 1 / 187 | 17.59 | 22.01 | 0.159 | 33.01 | -11.01 |
| 60 MHz | 11/2 BPSK | 2526.00 | H | 100 | 128 | 4.18 | 1 / 160 | 18.51 | 22.69 | 0.186 | 33.01 | -10.32 |
| | 11/2 BPSK | 2592.99 | H | 100 | 113 | 4.00 | 1 / 81 | 17.92 | 21.92 | 0.155 | 33.01 | -11.10 |
| | 11/2 BPSK | 2659.98 | H | 115 | 116 | 4.43 | 1 / 160 | 18.69 | 23.12 | 0.205 | 33.01 | -9.89 |
| | QPSK | 2526.00 | H | 100 | 128 | 4.18 | 1 / 160 | 18.76 | 22.94 | 0.197 | 33.01 | -10.07 |
| | QPSK | 2592.99 | H | 100 | 113 | 4.00 | 1 / 81 | 17.77 | 21.77 | 0.150 | 33.01 | -11.24 |
| | QPSK | 2659.98 | H | 115 | 116 | 4.43 | 1 / 160 | 18.74 | 23.18 | 0.208 | 33.01 | -9.83 |
| | 16-QAM | 2659.98 | H | 115 | 116 | 4.43 | 1 / 160 | 16.59 | 21.02 | 0.126 | 33.01 | -11.99 |
| 50 MHz | 11/2 BPSK | 2521.02 | H | 100 | 128 | 4.18 | 1 / 131 | 18.63 | 22.81 | 0.191 | 33.01 | -10.20 |
| | 11/2 BPSK | 2592.99 | H | 100 | 113 | 4.00 | 1 / 1 | 18.36 | 22.36 | 0.172 | 33.01 | -10.65 |
| | 11/2 BPSK | 2664.99 | H | 115 | 116 | 4.45 | 1 / 66 | 19.45 | 23.90 | 0.245 | 33.01 | -9.11 |
| | QPSK | 2521.02 | H | 100 | 128 | 4.18 | 1 / 131 | 18.32 | 22.50 | 0.178 | 33.01 | -10.51 |
| | QPSK | 2592.99 | H | 100 | 113 | 4.00 | 1 / 1 | 18.63 | 22.63 | 0.183 | 33.01 | -10.38 |
| | QPSK | 2664.99 | H | 115 | 116 | 4.45 | 1 / 66 | 19.29 | 23.74 | 0.237 | 33.01 | -9.27 |
| | 16-QAM | 2664.99 | H | 115 | 116 | 4.45 | 1 / 66 | 16.84 | 21.29 | 0.135 | 33.01 | -11.72 |
| 40 MHz | 11/2 BPSK | 2516.01 | H | 100 | 128 | 4.18 | 1 / 1 | 18.61 | 22.79 | 0.190 | 33.01 | -10.22 |
| | 11/2 BPSK | 2592.99 | H | 100 | 113 | 4.00 | 1 / 1 | 18.43 | 22.42 | 0.175 | 33.01 | -10.59 |
| | 11/2 BPSK | 2670.00 | H | 115 | 116 | 4.47 | 1 / 53 | 18.87 | 23.34 | 0.216 | 33.01 | -9.67 |
| | QPSK | 2516.01 | H | 100 | 128 | 4.18 | 1 / 1 | 18.26 | 22.43 | 0.175 | 33.01 | -10.58 |
| | QPSK | 2592.99 | H | 100 | 113 | 4.00 | 1 / 1 | 18.66 | 22.66 | 0.184 | 33.01 | -10.35 |
| | QPSK | 2670.00 | H | 115 | 116 | 4.47 | 1 / 53 | 19.08 | 23.54 | 0.226 | 33.01 | -9.47 |
| | 16-QAM | 2670.00 | H | 115 | 116 | 4.47 | 1 / 53 | 16.83 | 21.30 | 0.135 | 33.01 | -11.71 |
| 30 MHz | 11/2 BPSK | 2511.00 | H | 100 | 128 | 4.18 | 1 / 1 | 18.72 | 22.90 | 0.195 | 33.01 | -10.11 |
| | 11/2 BPSK | 2592.99 | H | 100 | 113 | 4.00 | 1 / 1 | 17.80 | 21.80 | 0.151 | 33.01 | -11.22 |
| | 11/2 BPSK | 2674.98 | H | 115 | 116 | 4.48 | 1 / 39 | 19.01 | 23.50 | 0.224 | 33.01 | -9.51 |
| | QPSK | 2511.00 | H | 100 | 128 | 4.18 | 1 / 1 | 18.19 | 22.37 | 0.172 | 33.01 | -10.64 |
| | QPSK | 2592.99 | H | 100 | 113 | 4.00 | 1 / 1 | 18.11 | 22.11 | 0.162 | 33.01 | -10.90 |
| | QPSK | 2674.98 | H | 115 | 116 | 4.48 | 1 / 39 | 19.82 | 24.30 | 0.269 | 33.01 | -8.71 |
| | 16-QAM | 2674.98 | H | 115 | 116 | 4.48 | 1 / 39 | 16.10 | 20.58 | 0.114 | 33.01 | -12.43 |
| 25 MHz | 11/2 BPSK | 2508.50 | H | 100 | 128 | 4.17 | 1 / 39 | 18.10 | 22.28 | 0.169 | 33.01 | -10.73 |
| | 11/2 BPSK | 2592.99 | H | 100 | 113 | 4.00 | 1 / 1 | 17.71 | 21.71 | 0.148 | 33.01 | -11.30 |
| | 11/2 BPSK | 2677.48 | H | 115 | 116 | 4.49 | 1 / 39 | 18.75 | 23.24 | 0.211 | 33.01 | -9.77 |
| | QPSK | 2508.50 | H | 100 | 128 | 4.17 | 1 / 39 | 18.20 | 22.38 | 0.173 | 33.01 | -10.63 |
| | QPSK | 2592.99 | H | 100 | 113 | 4.00 | 1 / 1 | 18.09 | 22.09 | 0.162 | 33.01 | -10.92 |
| | QPSK | 2677.48 | H | 115 | 116 | 4.49 | 1 / 39 | 18.28 | 22.77 | 0.189 | 33.01 | -10.24 |
| | 16-QAM | 2677.48 | H | 115 | 116 | 4.49 | 1 / 39 | 17.05 | 21.55 | 0.143 | 33.01 | -11.46 |
| 20 MHz | 11/2 BPSK | 2506.02 | H | 100 | 128 | 4.17 | 1 / 39 | 18.76 | 22.93 | 0.197 | 33.01 | -10.08 |
| | 11/2 BPSK | 2592.99 | H | 100 | 113 | 4.00 | 1 / 1 | 18.32 | 22.32 | 0.171 | 33.01 | -10.69 |
| | 11/2 BPSK | 2679.99 | H | 115 | 116 | 4.50 | 1 / 1 | 18.86 | 23.36 | 0.217 | 33.01 | -9.65 |
| | QPSK | 2506.02 | H | 100 | 128 | 4.17 | 1 / 39 | 17.98 | 22.15 | 0.164 | 33.01 | -10.86 |
| | QPSK | 2592.99 | H | 100 | 113 | 4.00 | 1 / 1 | 18.63 | 22.63 | 0.183 | 33.01 | -10.38 |
| | QPSK | 2679.99 | H | 115 | 116 | 4.50 | 1 / 1 | 18.51 | 23.01 | 0.200 | 33.01 | -10.00 |
| | 16-QAM | 2679.99 | H | 115 | 116 | 4.50 | 1 / 1 | 17.33 | 21.83 | 0.152 | 33.01 | -11.18 |
| 15 MHz | 11/2 BPSK | 2503.50 | H | 100 | 128 | 4.17 | 1 / 39 | 18.17 | 22.34 | 0.171 | 33.01 | -10.67 |
| | 11/2 BPSK | 2592.99 | H | 100 | 113 | 4.00 | 1 / 39 | 18.11 | 22.11 | 0.163 | 33.01 | -10.90 |
| | 11/2 BPSK | 2682.48 | H | 115 | 116 | 4.51 | 1 / 76 | 18.96 | 23.47 | 0.223 | 33.01 | -9.54 |
| | QPSK | 2503.50 | H | 100 | 128 | 4.17 | 1 / 39 | 17.89 | 22.07 | 0.161 | 33.01 | -10.94 |
| | QPSK | 2592.99 | H | 100 | 113 | 4.00 | 1 / 39 | 17.79 | 21.79 | 0.151 | 33.01 | -11.22 |
| | QPSK | 2682.48 | H | 115 | 116 | 4.51 | 1 / 76 | 18.20 | 22.71 | 0.187 | 33.01 | -10.30 |
| | 16-QAM | 2682.48 | H | 115 | 116 | 4.51 | 1 / 76 | 17.02 | 21.53 | 0.142 | 33.01 | -11.48 |
| 10 MHz | 11/2 BPSK | 2501.01 | H | 100 | 128 | 4.17 | 1 / 1 | 18.30 | 22.47 | 0.177 | 33.01 | -10.54 |
| | 11/2 BPSK | 2592.99 | H | 100 | 113 | 4.00 | 1 / 1 | 17.94 | 21.94 | 0.156 | 33.01 | -11.07 |
| | 11/2 BPSK | 2685.00 | H | 115 | 116 | 4.52 | 1 / 1 | 19.18 | 23.69 | 0.234 | 33.01 | -9.32 |
| | QPSK | 2501.01 | H | 100 | 128 | 4.17 | 1 / 1 | 18.68 | 22.86 | 0.193 | 33.01 | -10.15 |
| | QPSK | 2592.99 | H | 100 | 113 | 4.00 | 1 / 1 | 18.92 | 22.92 | 0.196 | 33.01 | -10.09 |
| | QPSK | 2685.00 | H | 115 | 116 | 4.52 | 1 / 1 | 18.29 | 22.81 | 0.191 | 33.01 | -10.20 |
| | 16-QAM | 2685.00 | H | 115 | 116 | 4.52 | 1 / 1 | 16.50 | 21.02 | 0.126 | 33.01 | -11.99 |
| 100 MHz | QPSK (CP-OFDM) | #N/A | H | 115 | 116 | 4.31 | 1 / 1 | 16.76 | 21.07 | 0.128 | 33.01 | -11.94 |
| | QPSK (WCP) | 2640.0 | H | 115 | 116 | 4.31 | 1 / 1 | 18.35 | 22.66 | 0.185 | 33.01 | -10.35 |

Table 7-124. EIRP Data (NR Band n41) – Ant2

| | | | |
|---|--------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMS928JPN | PART 27 MEASUREMENT REPORT | | Approved by: Technical Manager |
| Test Report S/N: 1M2312110124-18.A3L | Test Dates: 09/12/2023 – 2/2/2024 | EUT Type: Portable Handset | Page 102 of 123 |

7.7 Radiated Spurious Emissions Measurements

Test Overview

Radiated spurious emissions measurements are performed using the field strength conversion method described in ANSI C63.26-2015 with the EUT transmitting into an integral antenna. Measurements on signals operating below 1GHz are performed using hybrid (biconical/log) antennas. Measurements on signals operating above 1GHz are performed using vertically and horizontally polarized broadband horn antennas. All measurements are performed as RMS measurements while the EUT is operating at maximum power, and at the appropriate frequencies.

Test Procedures Used

ANSI C63.26-2015 – Section 5.5.4

Test Settings

1. RBW = 100kHz for emissions below 1GHz and 1MHz for emissions above 1GHz
2. VBW $\geq 3 \times$ RBW
3. Span = 1.5 times the OBW
4. No. of sweep points $\geq 2 \times$ span / RBW
5. Detector = RMS
6. Trace mode = Average (Max Hold for pulsed emissions)
7. The trace was allowed to stabilize

| | | | |
|---|--------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMS928JPN | PART 27 MEASUREMENT REPORT | | Approved by: Technical Manager |
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Test Setup

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

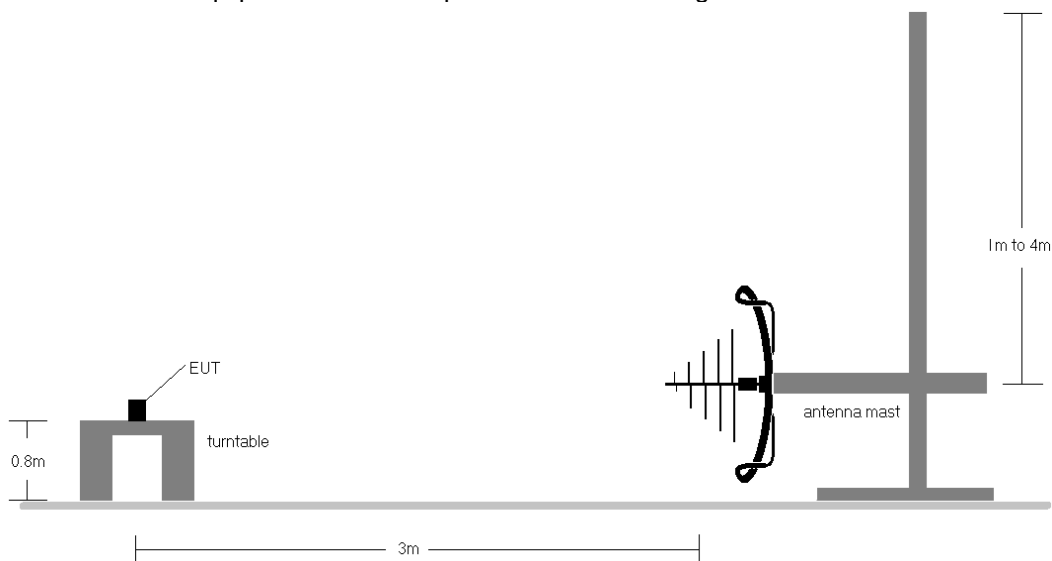


Figure 7-6. Test Instrument & Measurement Setup < 1GHz

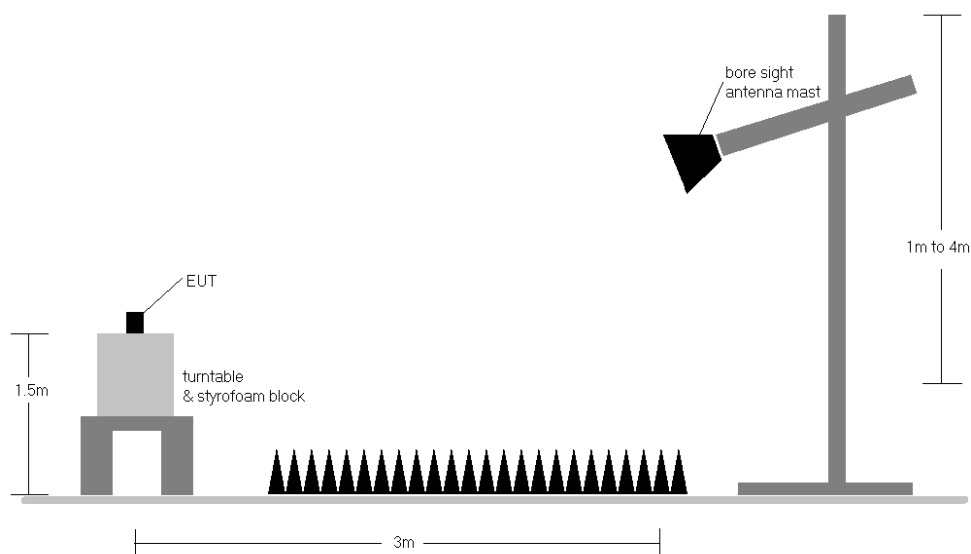


Figure 7-7. Test Instrument & Measurement Setup >1 GHz

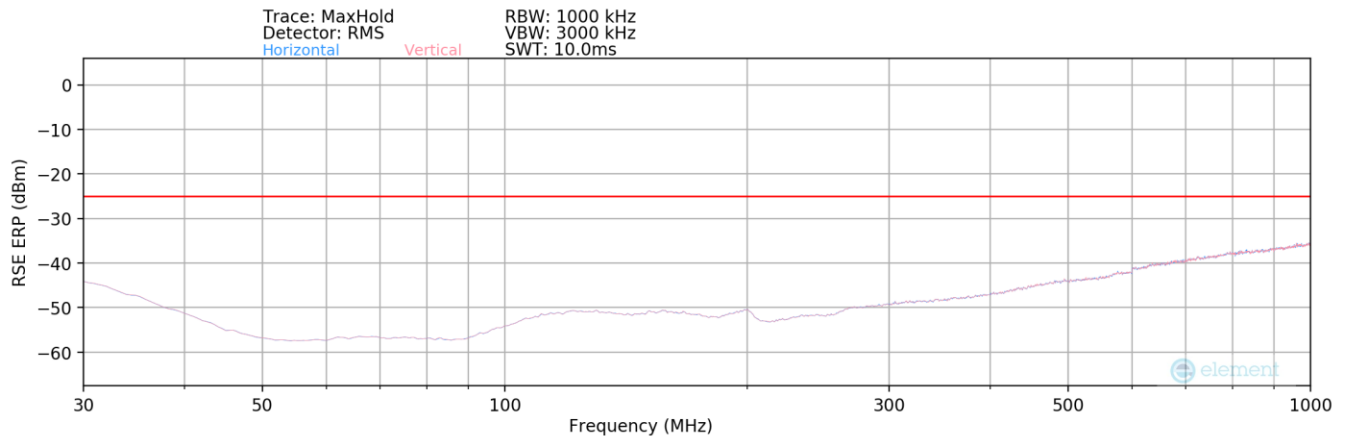
| | | | |
|--|---|--------------------------------------|--|
| FCC ID: A3LSMS928JPN | PART 27 MEASUREMENT REPORT | | Approved by: Technical Manager |
| Test Report S/N: 1M2312110124-18.A3L | Test Dates: 09/12/2023 – 2/2/2024 | EUT Type: Portable Handset | Page 104 of 123 |

Test Notes

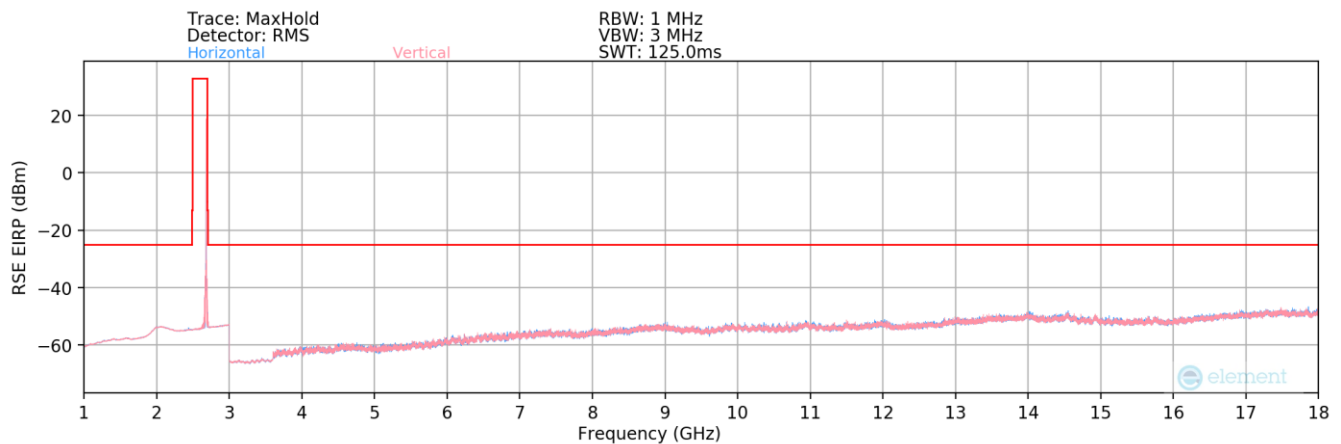
- 1) Field strengths are calculated using the Measurement quantity conversions in ANSI C63.26-2015 Section 5.2.7:
 - a) $E(\text{dB}\mu\text{V}/\text{m}) = \text{Measured amplitude level (dBm)} + 107 + \text{Cable Loss (dB)} + \text{Antenna Factor (dB/m)}$
 - b) $\text{EIRP (dBm)} = E(\text{dB}\mu\text{V}/\text{m}) + 20\log D - 104.8$; where D is the measurement distance in meters.
- 2) The EUT was tested in three orthogonal planes and in all possible test configurations and positioning. The worst-case emissions are reported with the EUT positioning, modulations, RB sizes and offsets, and channel bandwidth configurations shown in the tables below.
- 3) This unit was tested with its standard battery.
- 4) The spectrum is measured from 9kHz to the 10th harmonic of the fundamental frequency of the transmitter. The worst-case emissions are reported.
- 5) Emissions below 18GHz were measured at a 3-meter test distance while emissions above 18GHz were measured at a 1 meter test distance with the application of a distance correction factor.
- 6) The "-" shown in the following RSE tables are used to denote a noise floor measurement.
- 7) ULCA spurious emissions measurements were evaluated for the two contiguous channels using various combinations of RB size, RB offset, modulation, and channel bandwidth. Channel bandwidth data is shown in the tables below based only on the channel bandwidths that were supported in this device.
- 8) For NR operation, all subcarrier spacings (SCS) and transmission schemes (e.g. CP-OFDM and DFT-s-OFDM) were investigated to determine the worst case configuration. All modes of operation were investigated and the worst case configuration results are reported in this section.
- 9) Spurious emission in EN-DC Operating mode with Sub 6GHz NR carrier as well as an LTE carrier (anchor) has been checked and was found to not to be the worst case. Spurious emissions from the NR carrier device are subject to the rules under which the NR carrier operates. Spurious emissions caused by the LTE carrier must meet the requirements of the rules under which the LTE carrier operates.

| | | | |
|--|---|--------------------------------------|--|
| FCC ID: A3LSMS928JPN | PART 27 MEASUREMENT REPORT | | Approved by: Technical Manager |
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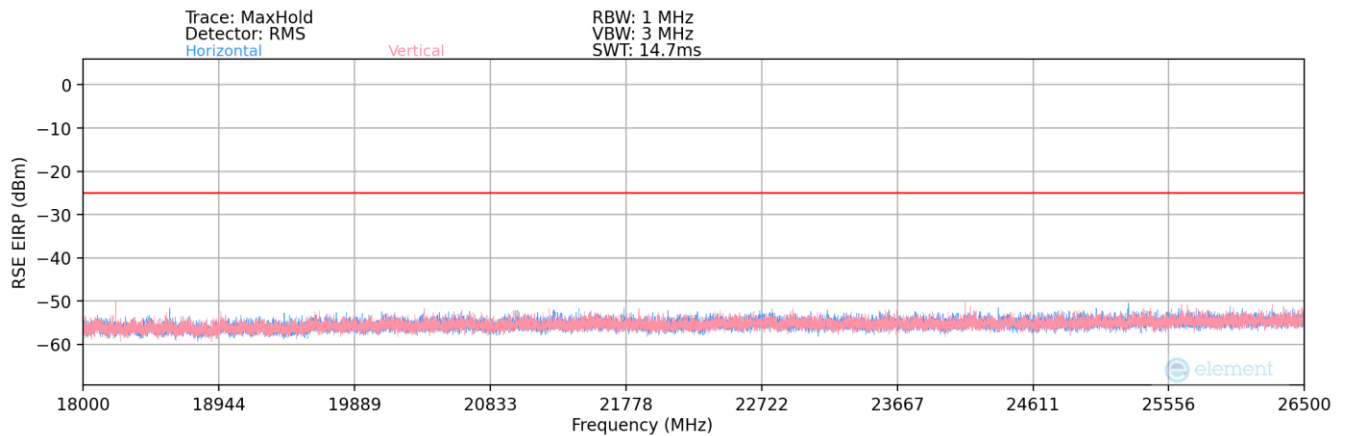
LTE Band 41(PC3) – Ant1



Plot 7-125. Radiated Spurious Plot (LTE Band 41(PC3) – Ant1)



Plot 7-126. Radiated Spurious Plot (LTE Band 41(PC3) – Ant1)



Plot 7-127. Radiated Spurious Plot (LTE Band 41(PC3) – Ant1)

| | | | |
|---|--------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMS928JPN | PART 27 MEASUREMENT REPORT | | Approved by: Technical Manager |
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| | |
|------------------|--------|
| Bandwidth (MHz): | 20 |
| Frequency (MHz): | 2506.0 |
| RB / Offset: | 1 / 50 |

| Frequency [MHz] | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Field Strength [dBμV/m] | EIRP Spurious Emission Level [dBm] | Limit [dBm] | Margin [dB] |
|-----------------|-----------------|---------------------|----------------------------|----------------------|-------------|-------------------------|------------------------------------|-------------|-------------|
| 5012.00 | V | - | - | -77.02 | 3.17 | 33.15 | -62.11 | -25.00 | -37.11 |
| 7518.00 | V | - | - | -76.61 | 8.91 | 39.30 | -55.96 | -25.00 | -30.96 |
| 10024.00 | V | - | - | -78.46 | 11.10 | 39.64 | -55.62 | -25.00 | -30.62 |

Table 7-15. Radiated Spurious Data (LTE Band 41(PC3) – Low Channel – Ant1)

| | |
|------------------|--------|
| Bandwidth (MHz): | 20 |
| Frequency (MHz): | 2593.0 |
| RB / Offset: | 1 / 50 |

| Frequency [MHz] | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Field Strength [dBμV/m] | EIRP Spurious Emission Level [dBm] | Limit [dBm] | Margin [dB] |
|-----------------|-----------------|---------------------|----------------------------|----------------------|-------------|-------------------------|------------------------------------|-------------|-------------|
| 5186.00 | V | 326 | 366 | -73.97 | 3.49 | 36.52 | -58.73 | -25.00 | -33.73 |
| 7779.00 | V | - | - | -77.31 | 8.22 | 37.91 | -57.35 | -25.00 | -32.35 |
| 10372.00 | V | - | - | -77.26 | 11.63 | 41.37 | -53.89 | -25.00 | -28.89 |
| 12965.00 | V | 208 | 329 | -78.95 | 14.13 | 42.18 | -53.08 | -25.00 | -28.08 |
| 15558.00 | V | - | - | -79.67 | 13.98 | 41.31 | -53.95 | -25.00 | -28.95 |

Table 7-16. Radiated Spurious Data (LTE Band 41(PC3) – Mid Channel – Ant1)

| | |
|------------------|--------|
| Bandwidth (MHz): | 20 |
| Frequency (MHz): | 2680.0 |
| RB / Offset: | 1 / 50 |

| Frequency [MHz] | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Field Strength [dBμV/m] | EIRP Spurious Emission Level [dBm] | Limit [dBm] | Margin [dB] |
|-----------------|-----------------|---------------------|----------------------------|----------------------|-------------|-------------------------|------------------------------------|-------------|-------------|
| 5360.00 | V | 222 | 358 | -74.50 | 3.36 | 35.86 | -59.40 | -25.00 | -34.40 |
| 8040.00 | V | - | - | -77.69 | 9.00 | 38.31 | -56.95 | -25.00 | -31.95 |
| 10720.00 | V | - | - | -78.93 | 11.91 | 39.98 | -55.28 | -25.00 | -30.28 |
| 13400.00 | V | 298 | 342 | -78.98 | 14.98 | 43.00 | -52.25 | -25.00 | -27.25 |
| 16080.00 | V | - | - | -79.98 | 14.59 | 41.61 | -53.64 | -25.00 | -28.64 |

Table 7-17. Radiated Spurious Data (LTE Band 41(PC3) – High Channel – Ant1)

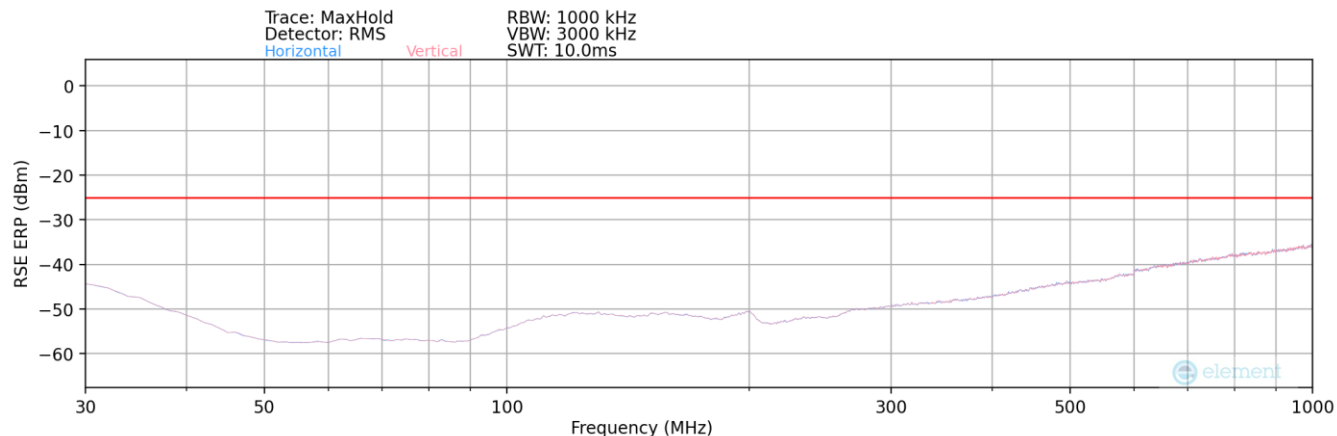
| | |
|------------------|--------|
| Bandwidth (MHz): | 20 |
| Frequency (MHz): | 2680.0 |
| RB / Offset: | 1 / 50 |

| Frequency [MHz] | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Field Strength [dBμV/m] | ERP Spurious Emission Level [dBm] | Limit [dBm] | Margin [dB] |
|-----------------|-----------------|---------------------|----------------------------|----------------------|-------------|-------------------------|-----------------------------------|-------------|-------------|
| 198.00 | V | - | - | -83.81 | 20.00 | 43.19 | -54.22 | -25.00 | -29.22 |

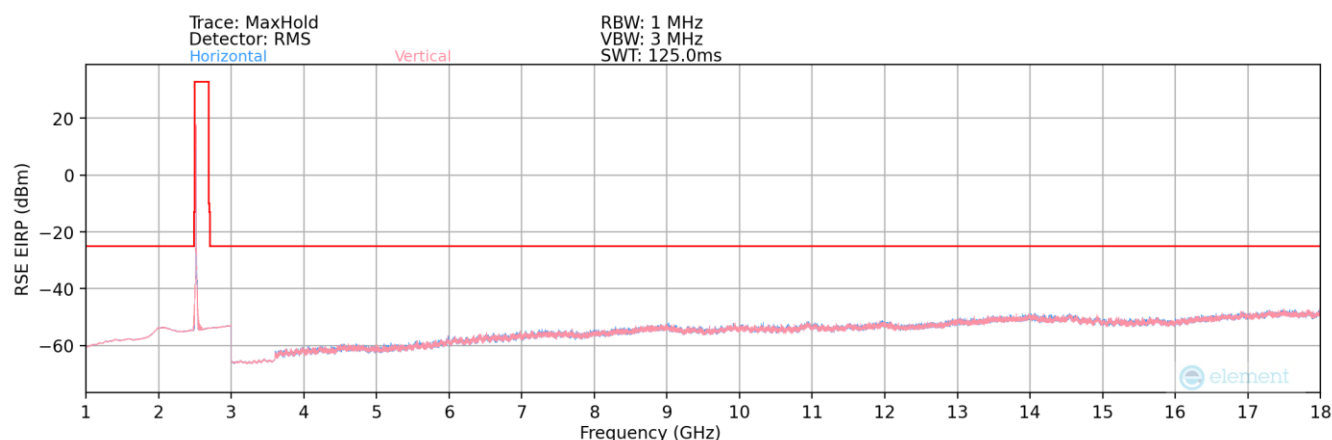
Table 7-18. Radiated Spurious Data (LTE Band 41(PC3) – High Channel – Ant1)

| | | | | |
|---|--------------------------------------|-------------------------------|--|-----------------------------------|
| FCC ID: A3LSMS928JPN | PART 27 MEASUREMENT REPORT | | | Approved by: Technical Manager |
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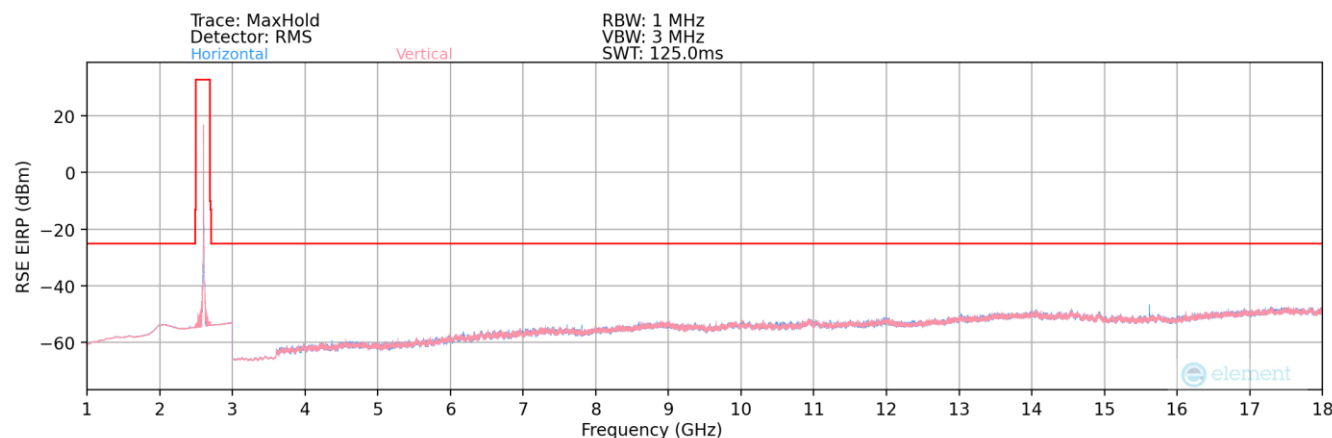
ULCA - LTE B41(PC3) – Ant1



Plot 7-128. Radiated Spurious Plot (ULCA LTE B41(PC3) – Ant1) – Below 1GHz

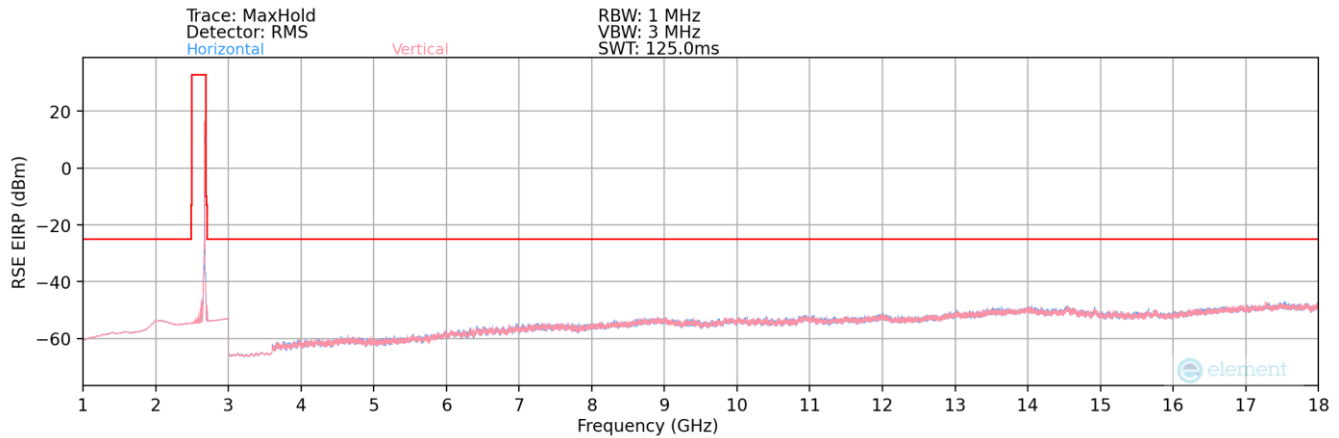


Plot 7-129. Radiated Spurious Plot (ULCA LTE B41(PC3) – Ant1)– Low Channel

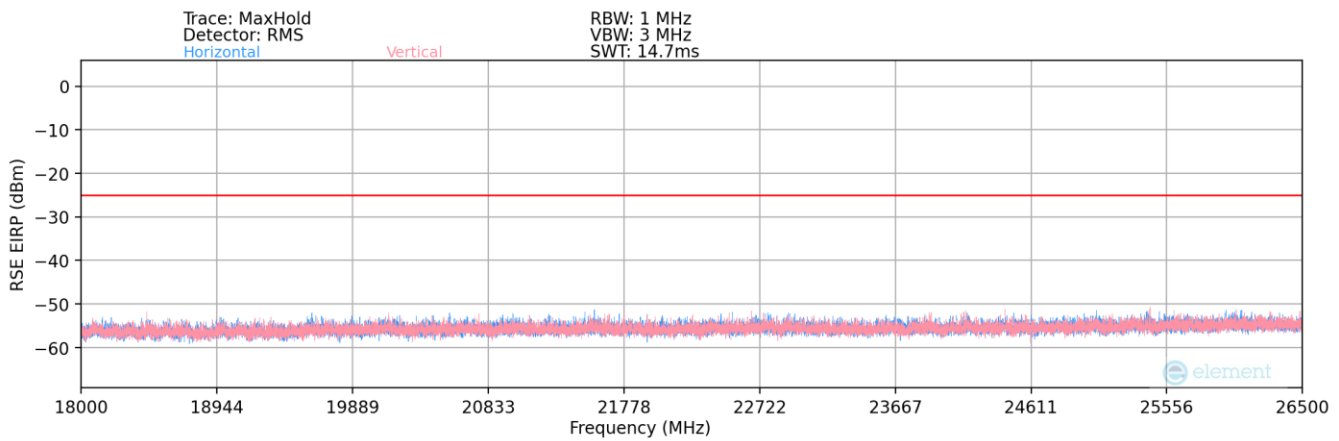


Plot 7-130. Radiated Spurious Plot (ULCA LTE B41(PC3) – Ant1) – Mid Channel

| | | | |
|---|--------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMS928JPN | PART 27 MEASUREMENT REPORT | | Approved by: Technical Manager |
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Plot 7-131. Radiated Spurious Plot (ULCA LTE B41(PC3) – Ant1) – High Channel



Plot 7-132. Radiated Spurious Plot (ULCA LTE B41(PC3) – Ant1) – Mid Channel

| | |
|----------------------|--------|
| PCC Bandwidth (MHz): | 20 |
| PCC Frequency (MHz): | 2506.0 |
| PCC RB / Offset: | 1 / 99 |
| SCC Bandwidth (MHz): | 20 |
| SCC Frequency (MHz): | 2525.8 |
| SCC RB / Offset: | 1 / 0 |

| Frequency [MHz] | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Field Strength [dBμV/m] | EIRP Spurious Emission Level [dBm] | Limit [dBm] | Margin [dB] |
|-----------------|-----------------|---------------------|----------------------------|----------------------|-------------|-------------------------|------------------------------------|-------------|-------------|
| 5031.80 | V | 271 | 349 | -61.55 | 3.17 | 48.62 | -46.64 | -25.00 | -21.64 |
| 7547.70 | V | 288 | 349 | -61.19 | 8.91 | 54.72 | -40.54 | -25.00 | -15.54 |
| 10063.60 | V | 187 | 21 | -62.74 | 11.10 | 55.36 | -39.90 | -25.00 | -14.90 |
| 12579.50 | V | 217 | 359 | -62.72 | 12.91 | 57.19 | -38.07 | -25.00 | -13.07 |
| 15095.40 | V | 220 | 357 | -73.31 | 14.66 | 48.35 | -46.91 | -25.00 | -21.91 |
| 17611.30 | V | - | - | -77.80 | 16.72 | 45.92 | -49.34 | -25.00 | -24.34 |
| 20127.20 | V | - | - | -58.77 | 3.25 | 51.48 | -53.32 | -25.00 | -28.32 |
| 22643.10 | V | - | - | -59.16 | 4.10 | 51.94 | -52.86 | -25.00 | -27.86 |

Table 7-19. Radiated Spurious Data (ULCA LTE B41(PC3) – Low Channel – Ant1)

| | | | | |
|---|--------------------------------------|-------------------------------|--|-----------------------------------|
| FCC ID: A3LSMS928JPN | PART 27 MEASUREMENT REPORT | | | Approved by: Technical Manager |
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| | |
|----------------------|--------|
| PCC Bandwidth (MHz): | 20 |
| PCC Frequency (MHz): | 2593.0 |
| PCC RB / Offset: | 1 / 99 |
| SCC Bandwidth (MHz): | 20 |
| SCC Frequency (MHz): | 2612.8 |
| SCC RB / Offset: | 1 / 0 |

| Frequency [MHz] | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Field Strength [dBμV/m] | EIRP Spurious Emission Level [dBm] | Limit [dBm] | Margin [dB] |
|-----------------|-----------------|---------------------|----------------------------|----------------------|-------------|-------------------------|------------------------------------|-------------|-------------|
| 5205.80 | V | 255 | 356 | -60.29 | 3.49 | 50.20 | -45.05 | -25.00 | -20.05 |
| 7808.70 | V | 282 | 347 | -62.99 | 8.22 | 52.23 | -43.03 | -25.00 | -18.03 |
| 10411.60 | V | 183 | 6 | -62.60 | 11.63 | 56.03 | -39.23 | -25.00 | -14.23 |
| 13014.50 | V | 208 | 5 | -68.13 | 14.13 | 53.00 | -42.26 | -25.00 | -17.26 |
| 15617.40 | V | 203 | 64 | -67.97 | 13.98 | 53.01 | -42.25 | -25.00 | -17.25 |
| 18220.30 | V | - | - | -57.43 | 1.83 | 51.40 | -53.40 | -25.00 | -28.40 |
| 20823.20 | V | - | - | -57.84 | 3.60 | 52.75 | -52.05 | -25.00 | -27.05 |
| 23426.10 | V | - | - | -59.59 | 4.09 | 51.50 | -53.30 | -25.00 | -28.30 |

Table 7-20. Radiated Spurious Data (ULCA LTE B41(PC3) – Mid Channel – Ant1)

| | |
|----------------------|--------|
| PCC Bandwidth (MHz): | 20 |
| PCC Frequency (MHz): | 2680.0 |
| PCC RB / Offset: | 1 / 0 |
| SCC Bandwidth (MHz): | 20 |
| SCC Frequency (MHz): | 2660.2 |
| SCC RB / Offset: | 1 / 99 |

| Frequency [MHz] | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Field Strength [dBμV/m] | EIRP Spurious Emission Level [dBm] | Limit [dBm] | Margin [dB] |
|-----------------|-----------------|---------------------|----------------------------|----------------------|-------------|-------------------------|------------------------------------|-------------|-------------|
| 5340.20 | V | 288 | 6 | -59.39 | 3.36 | 50.97 | -44.29 | -25.00 | -19.29 |
| 8010.30 | V | 275 | 345 | -59.45 | 9.00 | 56.55 | -38.71 | -25.00 | -13.71 |
| 10680.40 | V | 203 | 8 | -64.90 | 11.91 | 54.01 | -41.25 | -25.00 | -16.25 |
| 13350.50 | V | 206 | 347 | -68.53 | 14.98 | 53.45 | -41.80 | -25.00 | -16.80 |
| 16020.60 | V | 184 | 358 | -72.99 | 14.59 | 48.60 | -46.65 | -25.00 | -21.65 |
| 18690.70 | V | - | - | -57.20 | 1.98 | 51.78 | -53.02 | -25.00 | -28.02 |
| 21360.80 | V | - | - | -58.53 | 3.99 | 52.46 | -52.34 | -25.00 | -27.34 |
| 24030.90 | V | - | - | -59.38 | 4.07 | 51.69 | -53.11 | -25.00 | -28.11 |

Table 7-21. Radiated Spurious Data (ULCA LTE B41(PC3) – High Channel – Ant1)

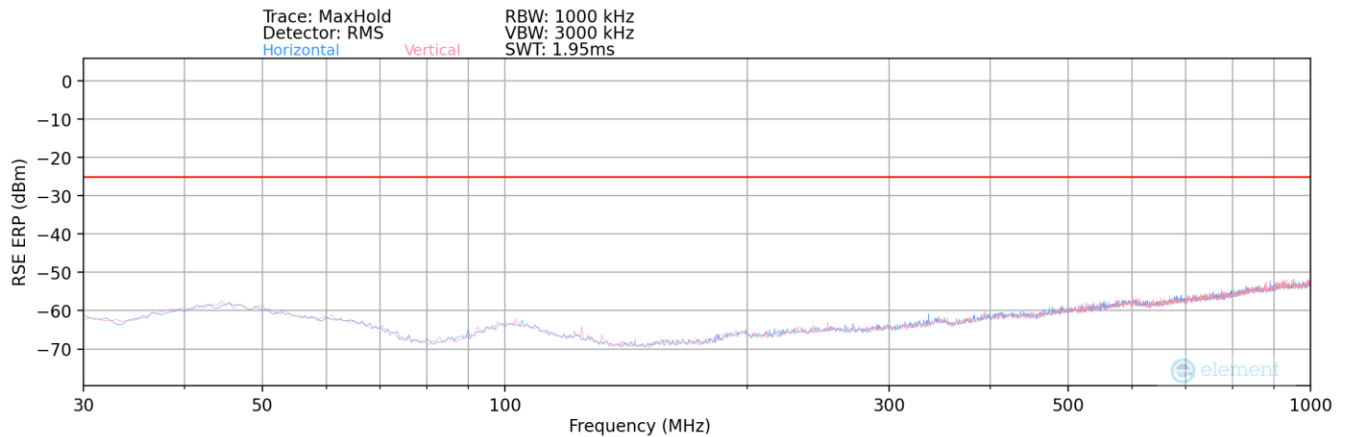
| | |
|----------------------|--------|
| PCC Bandwidth (MHz): | 20 |
| PCC Frequency (MHz): | 2680.0 |
| PCC RB / Offset: | 1 / 0 |
| SCC Bandwidth (MHz): | 20 |
| SCC Frequency (MHz): | 2660.2 |
| SCC RB / Offset: | 1 / 99 |

| Frequency [MHz] | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Field Strength [dBμV/m] | ERP Spurious Emission Level [dBm] | Limit [dBm] | Margin [dB] |
|-----------------|-----------------|---------------------|----------------------------|----------------------|-------------|-------------------------|-----------------------------------|-------------|-------------|
| 888.60 | V | - | - | -97.05 | 31.09 | 41.04 | -56.37 | -25.00 | -31.37 |

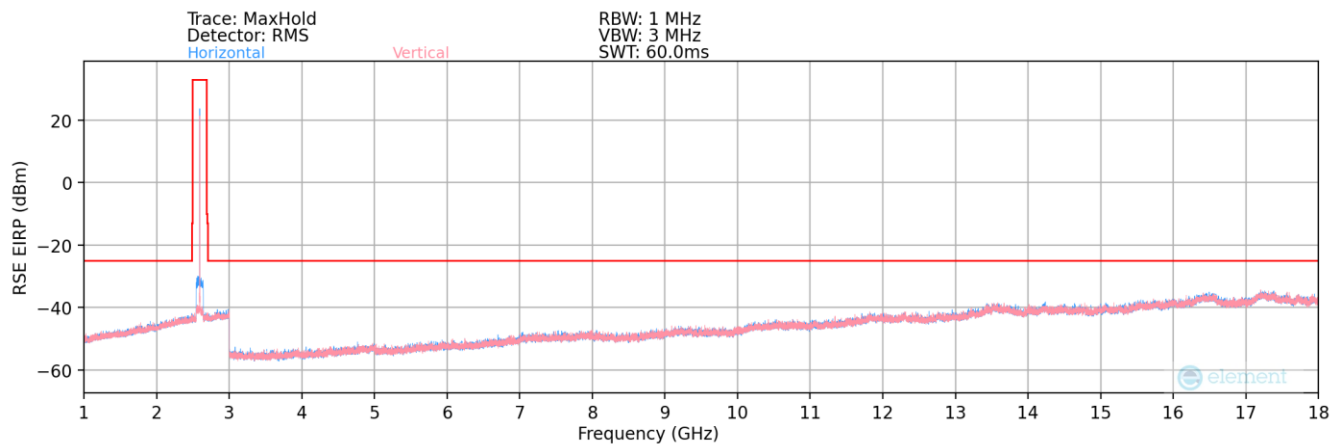
Table 7-22. Radiated Spurious Data (ULCA LTE B41(PC3) – High Channel – Ant1)

| | | | | |
|---|--------------------------------------|-------------------------------|--|-----------------------------------|
| FCC ID: A3LSMS928JPN | PART 27 MEASUREMENT REPORT | | | Approved by: Technical Manager |
| Test Report S/N: 1M2312110124-18.A3L | Test Dates: 09/12/2023 – 2/2/2024 | EUT Type: Portable Handset | | Page 110 of 123 |

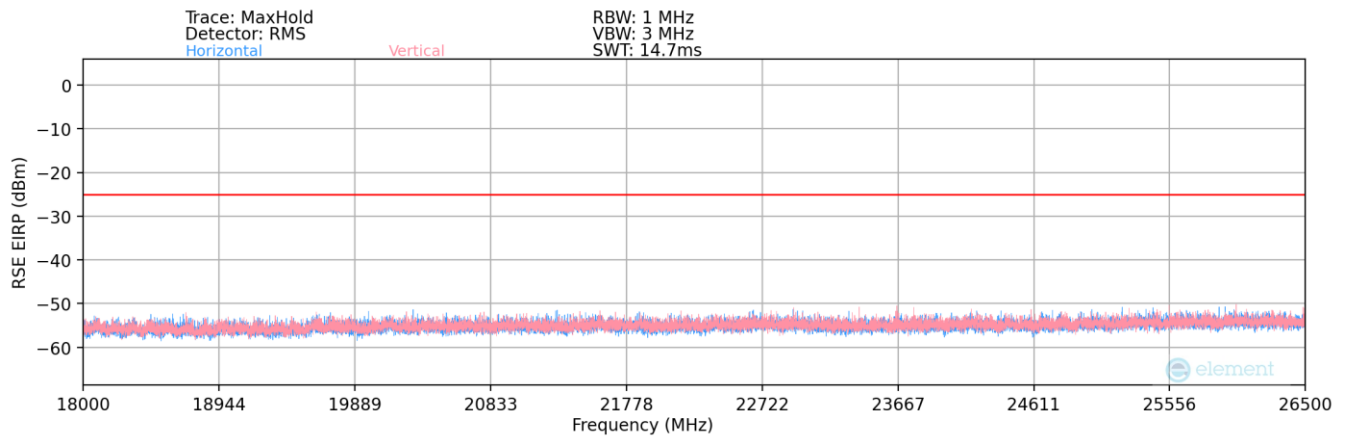
NR Band n41 – Ant1



Plot 7-133. Radiated Spurious Plot (NR Band n41 – Ant1)



Plot 7-134. Radiated Spurious Plot (NR Band n41 – Ant1)



Plot 7-135. Radiated Spurious Plot (NR Band n41 – Ant1)

| | | | |
|---|--------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMS928JPN | PART 27 MEASUREMENT REPORT | | Approved by: Technical Manager |
| Test Report S/N: 1M2312110124-18.A3L | Test Dates: 09/12/2023 – 2/2/2024 | EUT Type: Portable Handset | Page 111 of 123 |

| | |
|------------------|---------|
| Bandwidth (MHz): | 100 |
| Frequency (MHz): | 2546.01 |
| RB / Offset: | 1 / 136 |

| Frequency [MHz] | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Field Strength [dBμV/m] | EIRP Spurious Emission Level [dBm] | Limit [dBm] | Margin [dB] |
|-----------------|-----------------|---------------------|----------------------------|----------------------|-------------|-------------------------|------------------------------------|-------------|-------------|
| 5092.02 | H | - | - | -72.40 | 10.12 | 44.72 | -50.54 | -25.00 | -25.54 |
| 7638.03 | H | - | - | -74.97 | 15.84 | 47.87 | -47.38 | -25.00 | -22.38 |
| 10184.04 | H | - | - | -75.86 | 19.71 | 50.85 | -44.40 | -25.00 | -19.40 |

Table 7-23. Radiated Spurious Data (NR Band n41 – Low Channel – Ant1)

| | |
|------------------|---------|
| Bandwidth (MHz): | 100 |
| Frequency (MHz): | 2592.99 |
| RB / Offset: | 1 / 136 |

| Frequency [MHz] | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Field Strength [dBμV/m] | EIRP Spurious Emission Level [dBm] | Limit [dBm] | Margin [dB] |
|-----------------|-----------------|---------------------|----------------------------|----------------------|-------------|-------------------------|------------------------------------|-------------|-------------|
| 5185.98 | H | - | - | -72.43 | 10.54 | 45.11 | -50.15 | -25.00 | -25.15 |
| 7778.97 | H | - | - | -74.14 | 15.59 | 48.45 | -46.81 | -25.00 | -21.81 |
| 10371.96 | H | - | - | -74.54 | 19.60 | 52.06 | -43.20 | -25.00 | -18.20 |

Table 7-24. Radiated Spurious Data (NR Band n41 – Mid Channel – Ant1)

| | |
|------------------|---------|
| Bandwidth (MHz): | 100 |
| Frequency (MHz): | 2640.00 |
| RB / Offset: | 1 / 136 |

| Frequency [MHz] | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Field Strength [dBμV/m] | EIRP Spurious Emission Level [dBm] | Limit [dBm] | Margin [dB] |
|-----------------|-----------------|---------------------|----------------------------|----------------------|-------------|-------------------------|------------------------------------|-------------|-------------|
| 5280.00 | H | - | - | -72.56 | 10.33 | 44.77 | -50.48 | -25.00 | -25.48 |
| 7920.00 | H | - | - | -73.45 | 15.63 | 49.18 | -46.07 | -25.00 | -21.07 |
| 10560.00 | H | - | - | -75.25 | 19.99 | 51.74 | -43.52 | -25.00 | -18.52 |

Table 7-25. Radiated Spurious Data (NR Band n41 – High Channel – Ant1)

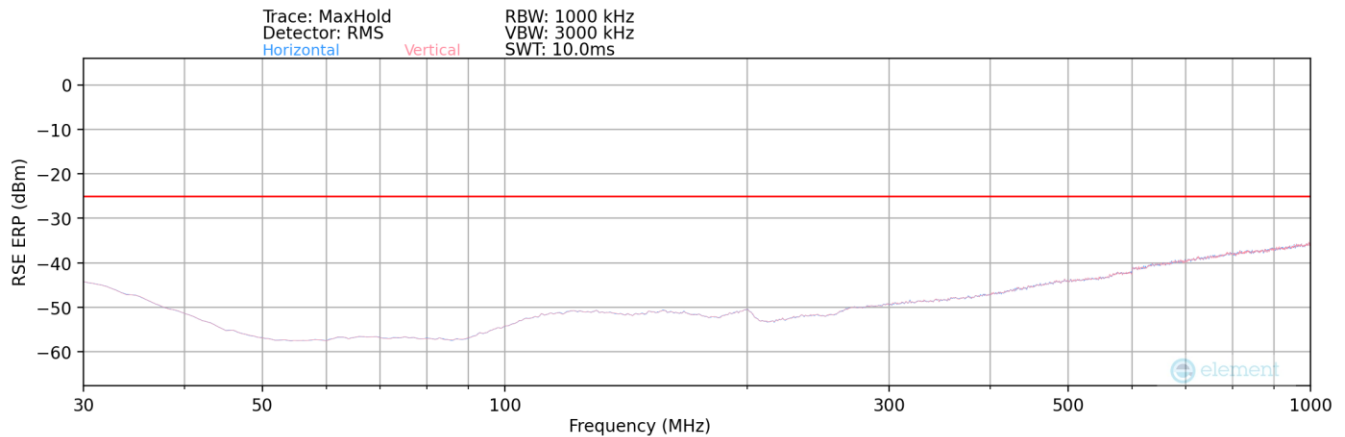
| | |
|------------------|---------|
| Bandwidth (MHz): | 100 |
| Frequency (MHz): | 2592.99 |
| RB / Offset: | 1 / 136 |

| Frequency [MHz] | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Field Strength [dBμV/m] | ERP Spurious Emission Level [dBm] | Limit [dBm] | Margin [dB] |
|-----------------|-----------------|---------------------|----------------------------|----------------------|-------------|-------------------------|-----------------------------------|-------------|-------------|
| 342.00 | H | - | - | -66.21 | -9.72 | 31.07 | -66.34 | -25.00 | -41.34 |

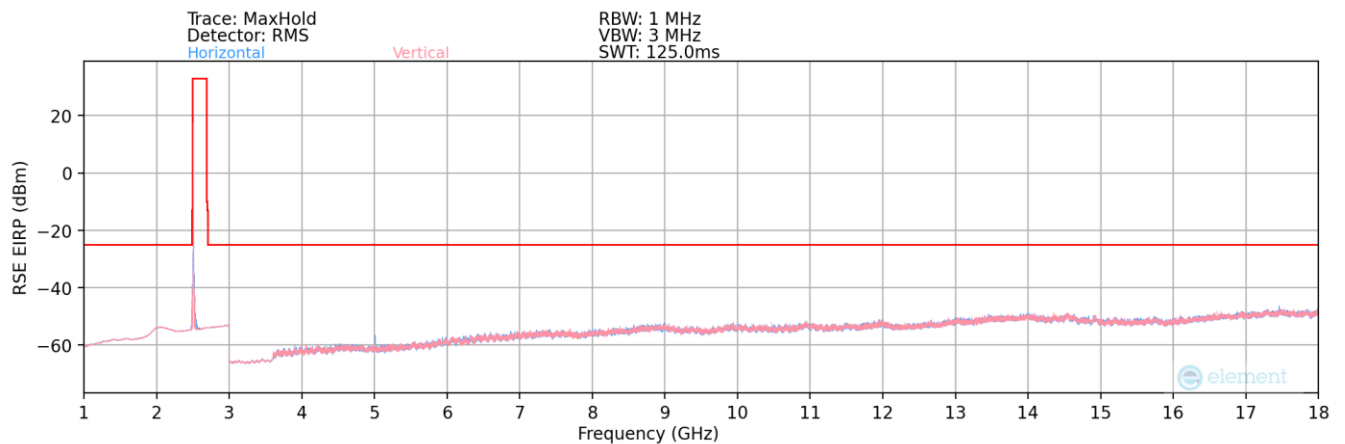
Table 7-26. Radiated Spurious Data (NR Band n41 – Low Channel – Ant1)

| | | | |
|---|--------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMS928JPN | PART 27 MEASUREMENT REPORT | | Approved by: Technical Manager |
| Test Report S/N: 1M2312110124-18.A3L | Test Dates: 09/12/2023 – 2/2/2024 | EUT Type: Portable Handset | Page 112 of 123 |

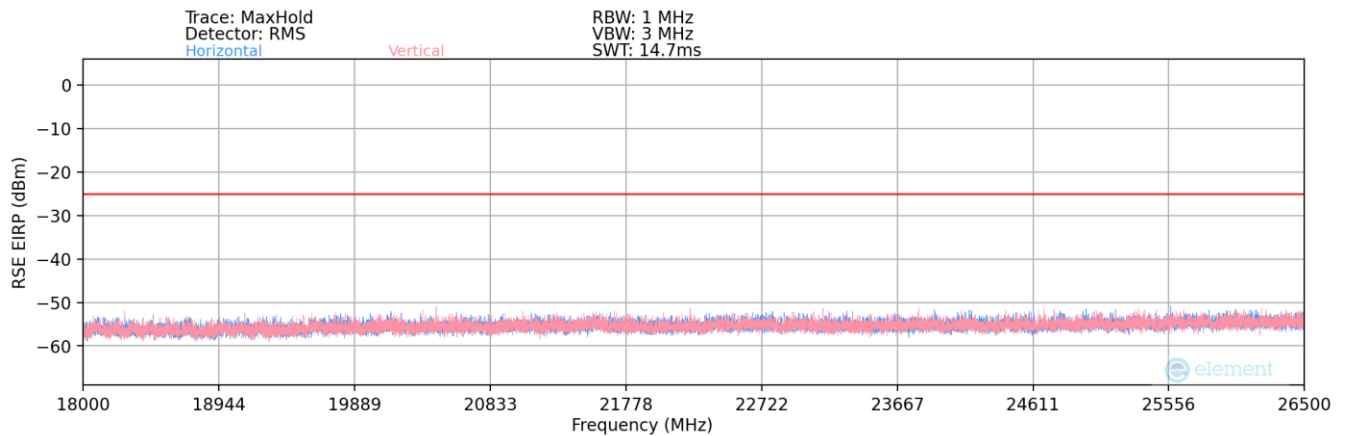
LTE Band 41(PC3) – Ant2



Plot 7-136. Radiated Spurious Plot (LTE Band 41(PC3) – Ant2)



Plot 7-137. Radiated Spurious Plot (LTE Band 41(PC3) – Ant2)



Plot 7-138. Radiated Spurious Plot (LTE Band 41(PC3) – Ant2)

| | | | |
|---|--------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMS928JPN | PART 27 MEASUREMENT REPORT | | Approved by: Technical Manager |
| Test Report S/N: 1M2312110124-18.A3L | Test Dates: 09/12/2023 – 2/2/2024 | EUT Type: Portable Handset | Page 113 of 123 |

| | |
|------------------|--------|
| Bandwidth (MHz): | 20 |
| Frequency (MHz): | 2506.0 |
| RB / Offset: | 1 / 50 |

| Frequency [MHz] | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Field Strength [dBμV/m] | EIRP Spurious Emission Level [dBm] | Limit [dBm] | Margin [dB] |
|-----------------|-----------------|---------------------|----------------------------|----------------------|-------------|-------------------------|------------------------------------|-------------|-------------|
| 5012.00 | H | 192 | 322 | -68.75 | 3.17 | 41.42 | -53.84 | -25.00 | -28.84 |
| 7518.00 | H | 162 | 23 | -77.75 | 8.91 | 38.16 | -57.10 | -25.00 | -32.10 |
| 10024.00 | H | - | - | -78.17 | 11.10 | 39.93 | -55.33 | -25.00 | -30.33 |
| 12530.00 | H | 154 | 48 | -76.33 | 12.91 | 43.58 | -51.68 | -25.00 | -26.68 |
| 15036.00 | H | - | - | -80.77 | 14.66 | 40.89 | -54.37 | -25.00 | -29.37 |
| 17542.00 | H | - | - | -79.27 | 16.72 | 44.45 | -50.81 | -25.00 | -25.81 |

Table 7-27. Radiated Spurious Data (LTE Band 41(PC3) – Low Channel – Ant2)

| | |
|------------------|--------|
| Bandwidth (MHz): | 20 |
| Frequency (MHz): | 2593.0 |
| RB / Offset: | 1 / 50 |

| Frequency [MHz] | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Field Strength [dBμV/m] | EIRP Spurious Emission Level [dBm] | Limit [dBm] | Margin [dB] |
|-----------------|-----------------|---------------------|----------------------------|----------------------|-------------|-------------------------|------------------------------------|-------------|-------------|
| 5186.00 | H | 200 | 330 | -73.90 | 3.49 | 36.59 | -58.66 | -25.00 | -33.66 |
| 7779.00 | H | 182 | 356 | -76.35 | 8.22 | 38.87 | -56.39 | -25.00 | -31.39 |
| 10372.00 | H | - | - | -79.61 | 11.63 | 39.02 | -56.24 | -25.00 | -31.24 |
| 12965.00 | H | - | - | -79.99 | 14.13 | 41.14 | -54.12 | -25.00 | -29.12 |
| 15558.00 | H | - | - | -79.69 | 13.98 | 41.29 | -53.97 | -25.00 | -28.97 |

Table 7-28. Radiated Spurious Data (LTE Band 41(PC3) – Mid Channel – Ant2)

| | |
|------------------|--------|
| Bandwidth (MHz): | 20 |
| Frequency (MHz): | 2680.0 |
| RB / Offset: | 1 / 50 |

| Frequency [MHz] | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Field Strength [dBμV/m] | EIRP Spurious Emission Level [dBm] | Limit [dBm] | Margin [dB] |
|-----------------|-----------------|---------------------|----------------------------|----------------------|-------------|-------------------------|------------------------------------|-------------|-------------|
| 5360.00 | H | 179 | 45 | -75.39 | 3.36 | 34.97 | -60.29 | -25.00 | -35.29 |
| 8040.00 | H | - | - | -77.46 | 9.00 | 38.54 | -56.72 | -25.00 | -31.72 |
| 10720.00 | H | - | - | -79.87 | 11.91 | 39.04 | -56.22 | -25.00 | -31.22 |
| 13400.00 | H | - | - | -79.50 | 14.98 | 42.48 | -52.77 | -25.00 | -27.77 |

Table 7-29. Radiated Spurious Data (LTE Band 41(PC3) – High Channel – Ant2)

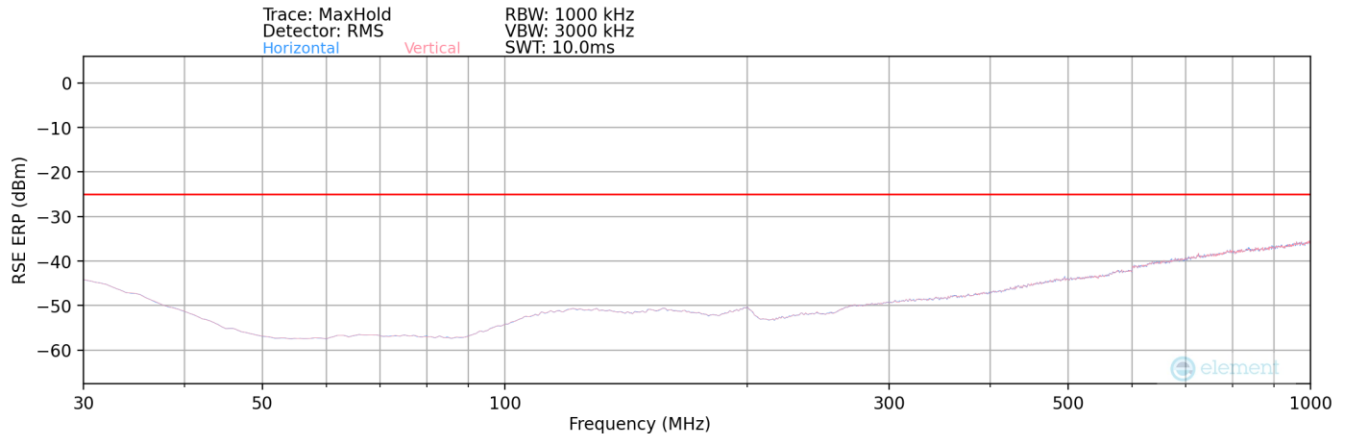
| | |
|------------------|--------|
| Bandwidth (MHz): | 20 |
| Frequency (MHz): | 2593.0 |
| RB / Offset: | 1 / 50 |

| Frequency [MHz] | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Field Strength [dBμV/m] | ERP Spurious Emission Level [dBm] | Limit [dBm] | Margin [dB] |
|-----------------|-----------------|---------------------|----------------------------|----------------------|-------------|-------------------------|-----------------------------------|-------------|-------------|
| 200.00 | H | - | - | -86.22 | 20.36 | 41.14 | -56.27 | -25.00 | -31.27 |

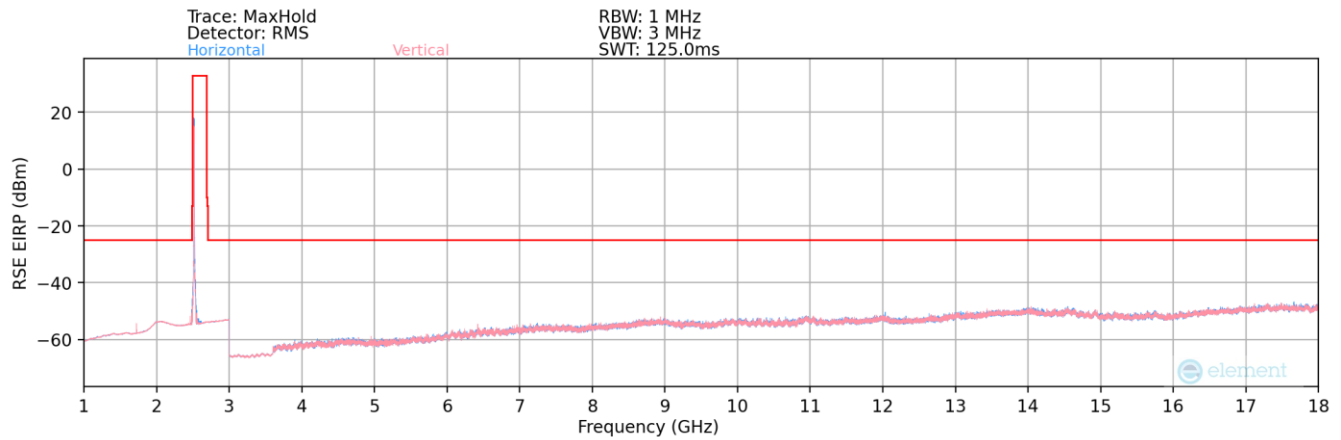
Table 7-30. Radiated Spurious Data (LTE Band 41(PC3) – Mid Channel – Ant2)

| | | | | |
|---|--------------------------------------|-------------------------------|--|-----------------------------------|
| FCC ID: A3LSMS928JPN | PART 27 MEASUREMENT REPORT | | | Approved by: Technical Manager |
| Test Report S/N: 1M2312110124-18.A3L | Test Dates: 09/12/2023 – 2/2/2024 | EUT Type: Portable Handset | | Page 114 of 123 |

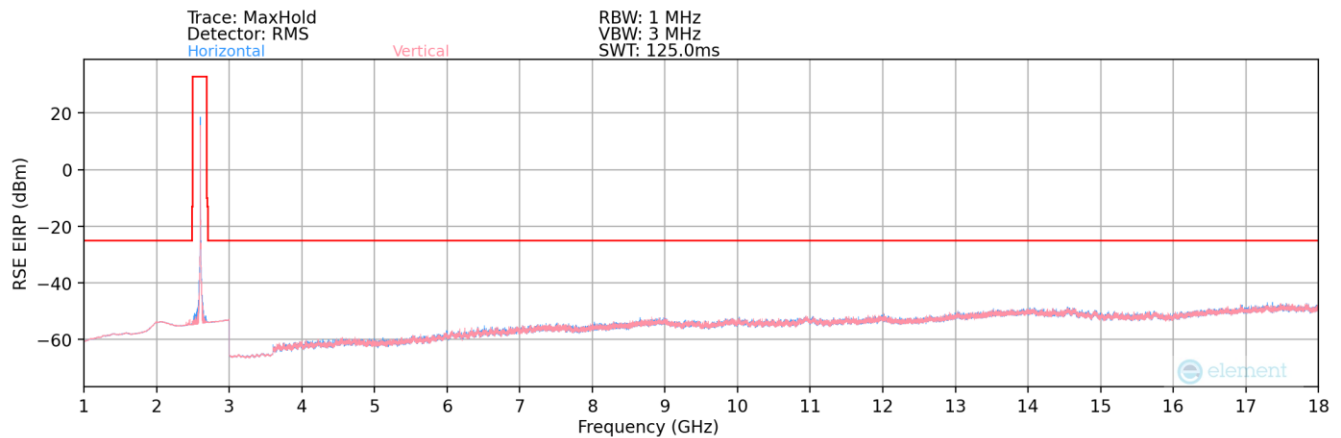
ULCA - LTE B41(PC3) – Ant2



Plot 7-139. Radiated Spurious Plot (ULCA LTE B41(PC3) – Ant2) – Below 1GHz

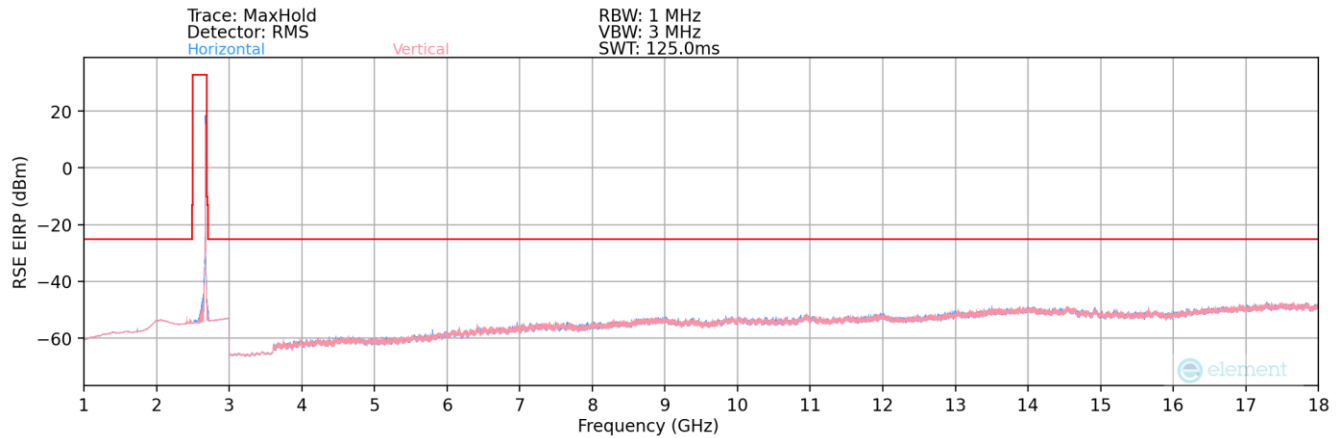


Plot 7-140. Radiated Spurious Plot (ULCA LTE B41(PC2) – Ant3) – Low Channel

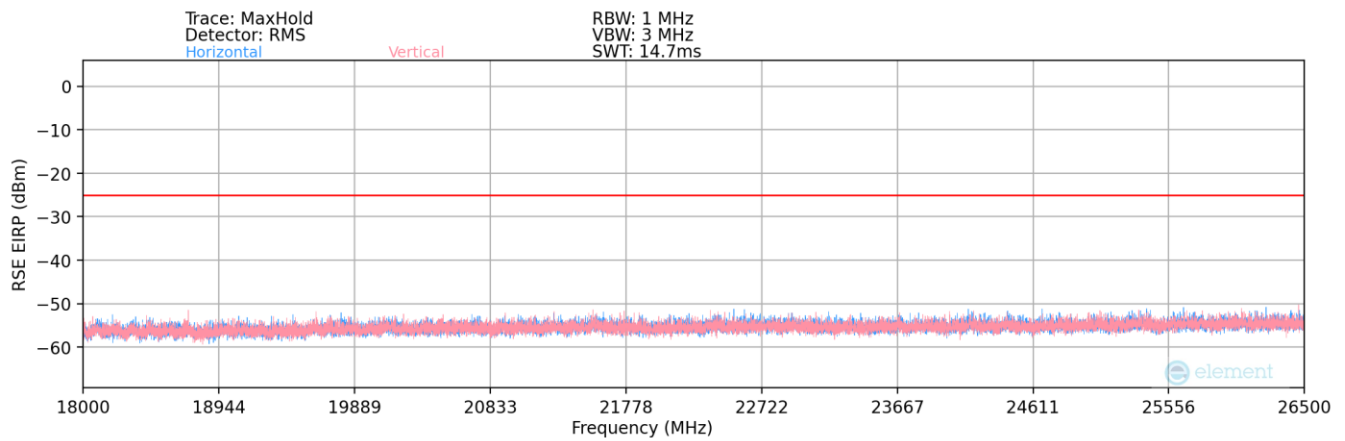


Plot 7-141. Radiated Spurious Plot (ULCA LTE B41(PC2) – Ant3) – Mid Channel

| | | | |
|---|--------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMS928JPN | PART 27 MEASUREMENT REPORT | | Approved by: Technical Manager |
| Test Report S/N: 1M2312110124-18.A3L | Test Dates: 09/12/2023 – 2/2/2024 | EUT Type: Portable Handset | Page 115 of 123 |



Plot 7-142. Radiated Spurious Plot (ULCA LTE B41(PC2) – Ant3) – High Channel



Plot 7-143. Radiated Spurious Plot (ULCA LTE B41(PC3) – Ant2)

| | |
|----------------------|--------|
| PCC Bandwidth (MHz): | 20 |
| PCC Frequency (MHz): | 2506.0 |
| PCC RB / Offset: | 1 / 99 |
| SCC Bandwidth (MHz): | 20 |
| SCC Frequency (MHz): | 2525.8 |
| SCC RB / Offset: | 1 / 0 |

| Frequency [MHz] | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Field Strength [dBμV/m] | EIRP Spurious Emission Level [dBm] | Limit [dBm] | Margin [dB] |
|-----------------|-----------------|---------------------|----------------------------|----------------------|-------------|-------------------------|------------------------------------|-------------|-------------|
| 5031.80 | H | 172 | 44 | -70.77 | 3.17 | 39.40 | -55.86 | -25.00 | -30.86 |
| 7547.70 | H | - | - | -77.10 | 8.91 | 38.81 | -56.45 | -25.00 | -31.45 |
| 10063.60 | H | - | - | -77.44 | 11.10 | 40.66 | -54.60 | -25.00 | -29.60 |
| 12579.50 | H | - | - | -78.02 | 12.91 | 41.89 | -53.37 | -25.00 | -28.37 |

Plot 7-31. Radiated Spurious Plot (ULCA LTE B41(PC3) – Ant2 – Low Channel)

| | | | | | |
|---|--------------------------------------|-------------------------------|--|--|-----------------------------------|
| FCC ID: A3LSMS928JPN | PART 27 MEASUREMENT REPORT | | | | Approved by: Technical Manager |
| Test Report S/N: 1M2312110124-18.A3L | Test Dates: 09/12/2023 – 2/2/2024 | EUT Type: Portable Handset | | | Page 116 of 123 |

| | |
|----------------------|--------|
| PCC Bandwidth (MHz): | 20 |
| PCC Frequency (MHz): | 2593.0 |
| PCC RB / Offset: | 1 / 99 |
| SCC Bandwidth (MHz): | 20 |
| SCC Frequency (MHz): | 2612.8 |
| SCC RB / Offset: | 1 / 0 |

| Frequency [MHz] | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Field Strength [dBμV/m] | EIRP Spurious Emission Level [dBm] | Limit [dBm] | Margin [dB] |
|-----------------|-----------------|---------------------|----------------------------|----------------------|-------------|-------------------------|------------------------------------|-------------|-------------|
| 5205.80 | H | 151 | 47 | -74.20 | 3.49 | 36.29 | -58.96 | -25.00 | -33.96 |
| 7808.70 | H | - | - | -76.68 | 8.22 | 38.54 | -56.72 | -25.00 | -31.72 |
| 10411.60 | H | - | - | -78.39 | 11.63 | 40.24 | -55.02 | -25.00 | -30.02 |
| 13014.50 | H | - | - | -78.49 | 14.13 | 42.64 | -52.62 | -25.00 | -27.62 |

Plot 7-32. Radiated Spurious Plot (ULCA LTE B41(PC3) – Ant2 – Mid Channel)

| | |
|----------------------|--------|
| PCC Bandwidth (MHz): | 20 |
| PCC Frequency (MHz): | 2680.0 |
| PCC RB / Offset: | 1 / 0 |
| SCC Bandwidth (MHz): | 20 |
| SCC Frequency (MHz): | 2660.2 |
| SCC RB / Offset: | 1 / 99 |

| Frequency [MHz] | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Field Strength [dBμV/m] | EIRP Spurious Emission Level [dBm] | Limit [dBm] | Margin [dB] |
|-----------------|-----------------|---------------------|----------------------------|----------------------|-------------|-------------------------|------------------------------------|-------------|-------------|
| 5340.20 | H | - | - | -75.67 | 3.36 | 34.69 | -60.57 | -25.00 | -35.57 |
| 8010.30 | H | - | - | -76.92 | 9.00 | 39.08 | -56.18 | -25.00 | -31.18 |
| 10680.40 | H | - | - | -77.76 | 11.91 | 41.15 | -54.11 | -25.00 | -29.11 |
| 13350.50 | H | - | - | -77.71 | 14.98 | 44.27 | -50.98 | -25.00 | -25.98 |

Plot 7-33. Radiated Spurious Plot (ULCA LTE B41(PC3) – Ant2 – High Channel)

| | |
|----------------------|--------|
| PCC Bandwidth (MHz): | 20 |
| PCC Frequency (MHz): | 2680.0 |
| PCC RB / Offset: | 1 / 0 |
| SCC Bandwidth (MHz): | 20 |
| SCC Frequency (MHz): | 2660.2 |
| SCC RB / Offset: | 1 / 99 |

| Frequency [MHz] | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Field Strength [dBμV/m] | ERP Spurious Emission Level [dBm] | Limit [dBm] | Margin [dB] |
|-----------------|-----------------|---------------------|----------------------------|----------------------|-------------|-------------------------|-----------------------------------|-------------|-------------|
| 836.80 | H | - | - | -95.02 | 30.72 | 42.70 | -54.71 | -25.00 | -29.71 |

Plot 7-34. Radiated Spurious Plot (ULCA LTE B41(PC3) – Ant2 – High Channel)

| | | | | | | |
|---|--------------------------------------|-------------------------------|--|--|-----------------------------------|--|
| FCC ID: A3LSMS928JPN | PART 27 MEASUREMENT REPORT | | | | Approved by: Technical Manager | |
| Test Report S/N: 1M2312110124-18.A3L | Test Dates: 09/12/2023 – 2/2/2024 | EUT Type: Portable Handset | | | Page 117 of 123 | |