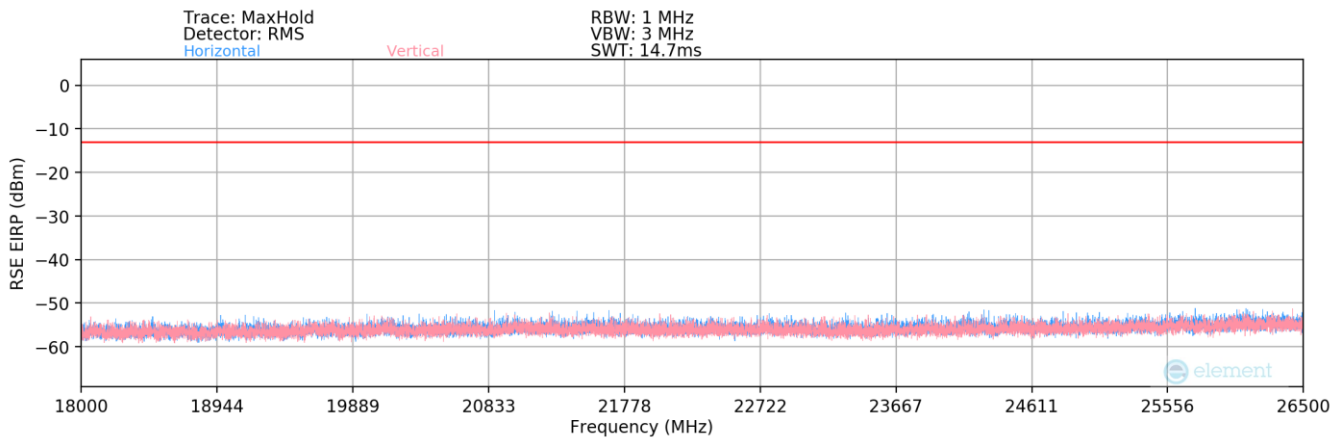
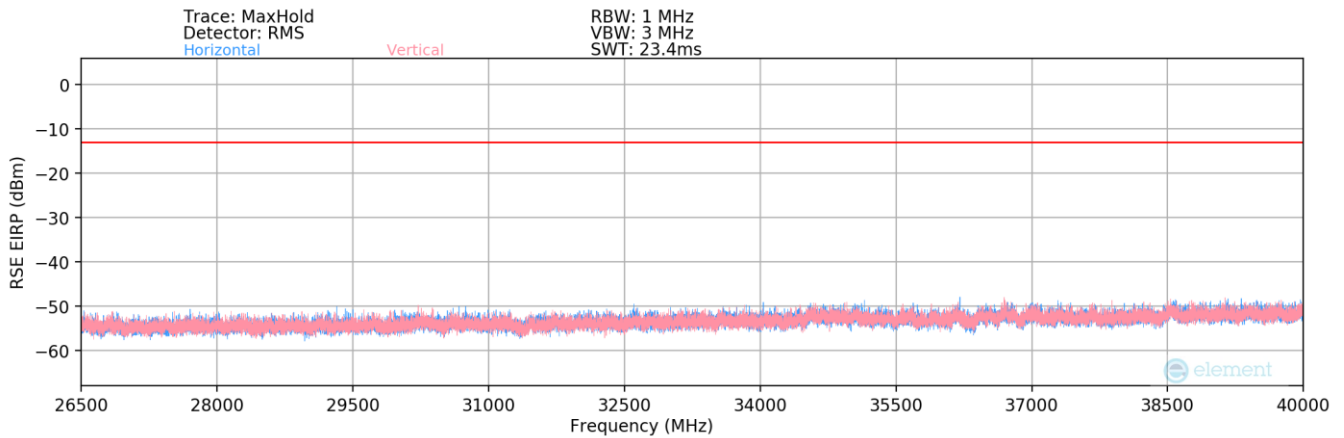


**Plot 7-270. Radiated Spurious Plot – 1-18GHz (NR Band n77 - C-Band – SRS-1)**



**Plot 7-271. Radiated Spurious Plot – 18-26.5GHz (NR Band n77 - C-Band – SRS-1)**



**Plot 7-272. Radiated Spurious Plot – 26.5-40GHz (NR Band n77 - C-Band – SRS-1)**

|   |  |                               |                                   |
|---|--|-------------------------------|-----------------------------------|
| FCC ID: A3LSMS918U                      | <b>PART 27 MEASUREMENT REPORT</b>      |                               | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2209010098-10.A3L | Test Dates:<br>10/13/2022 - 11/16/2022 | EUT Type:<br>Portable Handset | Page 180 of 199                   |



|                  |         |
|------------------|---------|
| Bandwidth (MHz): | 100     |
| Frequency (MHz): | 3750.00 |
| 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] |
|-----------------|-----------------|---------------------|----------------------------|----------------------|-------------|-------------------------|------------------------------------|-------------|-------------|
| 7500.00         | V               | 122                 | 203                        | -71.09               | 8.29        | 44.20                   | -51.06                             | -13.00      | -38.06      |
| 11250.00        | V               | 125                 | 176                        | -73.38               | 12.21       | 45.83                   | -49.43                             | -13.00      | -36.43      |
| 15000.00        | V               | -                   | -                          | -79.60               | 15.53       | 42.93                   | -52.33                             | -13.00      | -39.33      |
| 18750.00        | V               | -                   | -                          | -57.67               | 1.83        | 51.16                   | -53.64                             | -13.00      | -40.64      |

Table 7-37. Radiated Spurious Data – Above 1GHz (NR Band n77 - C-Band – Low Channel – SRS-1)

|                  |         |
|------------------|---------|
| Bandwidth (MHz): | 100     |
| Frequency (MHz): | 3840.00 |
| 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] |
|-----------------|-----------------|---------------------|----------------------------|----------------------|-------------|-------------------------|------------------------------------|-------------|-------------|
| 7680.00         | V               | 123                 | 209                        | -68.27               | 7.48        | 46.21                   | -49.05                             | -13.00      | -36.05      |
| 11520.00        | V               | 400                 | 27                         | -69.55               | 12.32       | 49.77                   | -45.48                             | -13.00      | -32.48      |
| 15360.00        | V               | -                   | -                          | -78.56               | 16.02       | 44.46                   | -50.80                             | -13.00      | -37.80      |
| 19200.00        | V               | -                   | -                          | -58.74               | 2.27        | 50.53                   | -54.27                             | -13.00      | -41.27      |

Table 7-38. Radiated Spurious Data – Above 1GHz (NR Band n77 - C-Band – Mid Channel – SRS-1)

|                  |         |
|------------------|---------|
| Bandwidth (MHz): | 100     |
| Frequency (MHz): | 3930.00 |
| 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] |
|-----------------|-----------------|---------------------|----------------------------|----------------------|-------------|-------------------------|------------------------------------|-------------|-------------|
| 7860.00         | V               | 274                 | 219                        | -73.09               | 8.25        | 42.16                   | -53.10                             | -13.00      | -40.10      |
| 11790.00        | V               | 125                 | 183                        | -67.59               | 13.24       | 52.65                   | -42.61                             | -13.00      | -29.61      |
| 15720.00        | V               | -                   | -                          | -80.41               | 17.31       | 43.90                   | -51.36                             | -13.00      | -38.36      |
| 19650.00        | V               | -                   | -                          | -57.92               | 2.57        | 51.65                   | -53.15                             | -13.00      | -40.15      |

Table 7-39. Radiated Spurious Data – Above 1GHz (NR Band n77 - C-Band – High Channel – SRS-1)

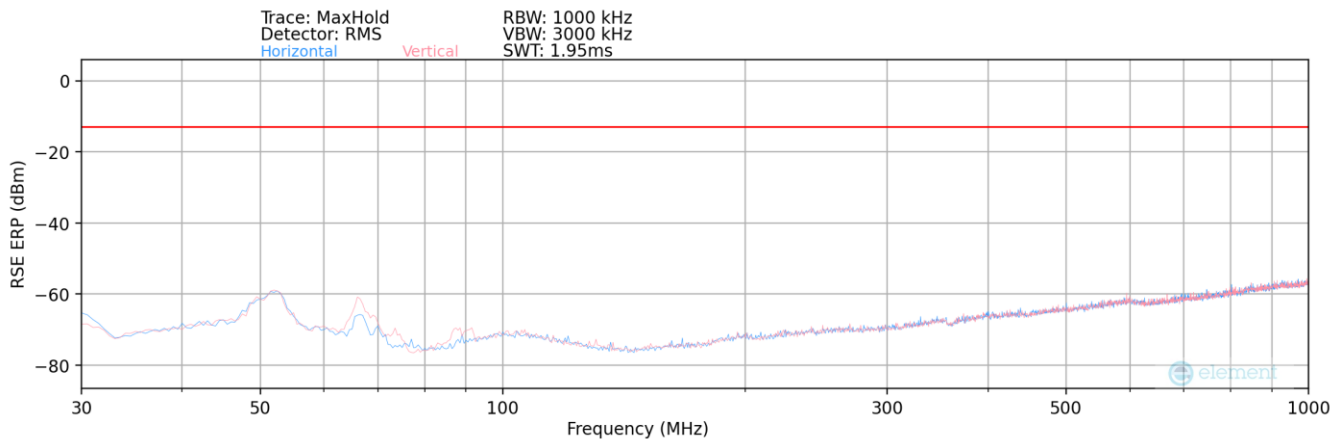
|                  |                          |
|------------------|--------------------------|
| Case:            | w/ Wireless Charging Pad |
| Bandwidth (MHz): | 100                      |
| Frequency (MHz): | 3840.00                  |
| RB / Offset:     | 1 / 136                  |

| 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] |
|-----------------|-----------------|---------------------|----------------------------|----------------------|-------------|-------------------------|------------------------------------|-------------|-------------|
| 7680.00         | V               | 162                 | 352                        | -77.72               | 7.48        | 36.76                   | -58.50                             | -13.00      | -45.50      |
| 11520.00        | V               | 162                 | 42                         | -74.81               | 12.32       | 44.51                   | -50.74                             | -13.00      | -37.74      |
| 15360.00        | V               | -                   | -                          | -80.19               | 16.02       | 42.83                   | -52.43                             | -13.00      | -39.43      |
| 19200.00        | V               | -                   | -                          | -56.74               | 2.27        | 52.53                   | -52.27                             | -13.00      | -39.27      |
| 23040.00        | V               | -                   | -                          | -58.56               | 3.76        | 52.20                   | -52.60                             | -13.00      | -39.60      |
| 26880.00        | V               | -                   | -                          | -58.01               | 4.88        | 53.87                   | -50.93                             | -13.00      | -37.93      |

Table 7-40. Radiated Spurious Data w/ Wireless Charging Pad (NR Band n77 - C-Band – SRS-1)

|   |  |                               |                                   |
|---|--|-------------------------------|-----------------------------------|
| FCC ID: A3LSMS918U                      | PART 27 MEASUREMENT REPORT             |                               | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2209010098-10.A3L | Test Dates:<br>10/13/2022 - 11/16/2022 | EUT Type:<br>Portable Handset | Page 181 of 199                   |

## NR Band n77 (PC2) - C-Band – SRS-2



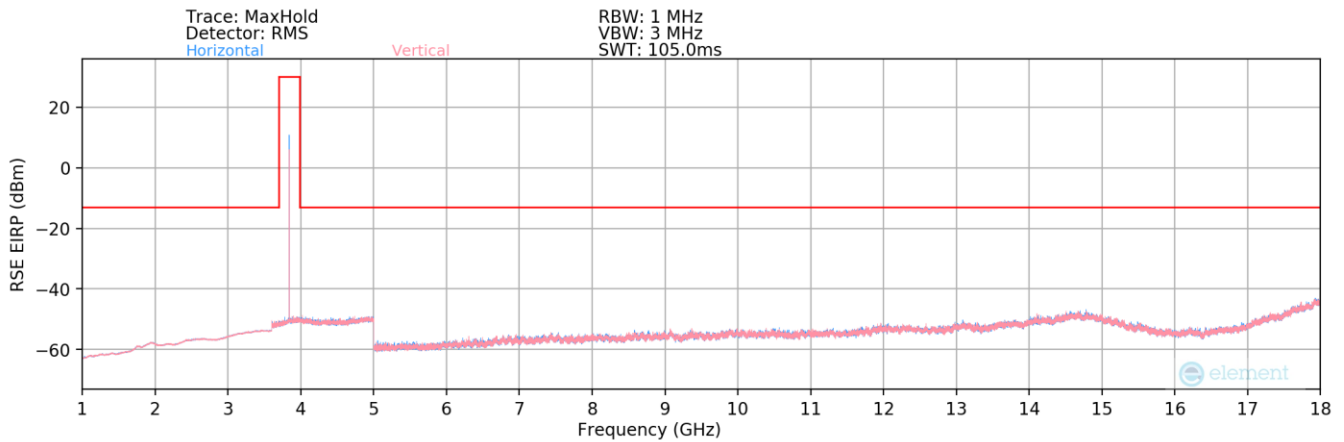
Plot 7-273. Radiated Spurious Plot – 30MHz-1GHz (NR Band n77 - C-Band – SRS-2)

|                  |         |
|------------------|---------|
| Bandwidth (MHz): | 100     |
| Frequency (MHz): | 3840.00 |
| RB / Offset:     | 1 / 136 |

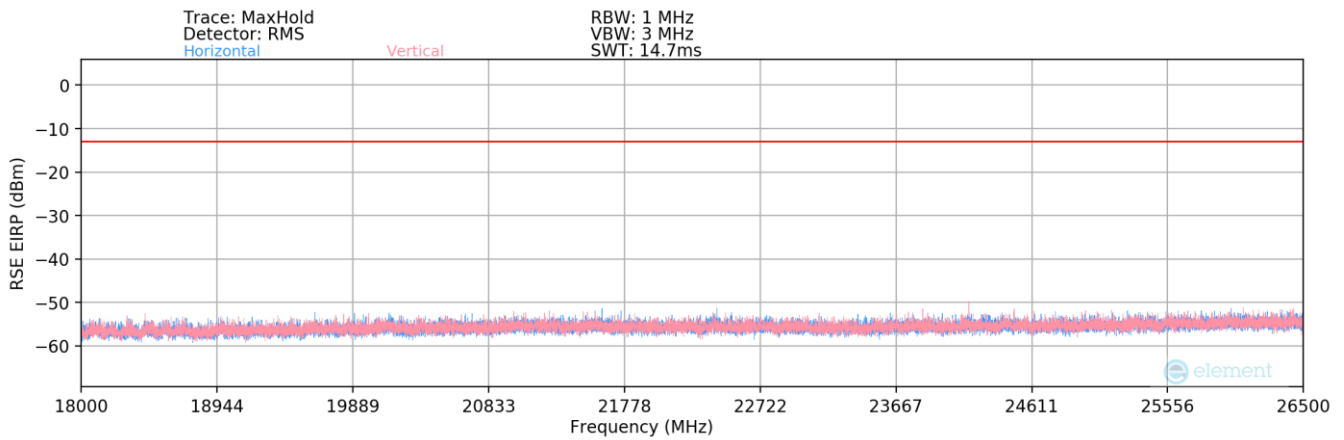
| Frequency [MHz] | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Field Strength [dBμV/m] | ERP Spurious Emission Level [dBm] | Limit [dBm] | Margin [dB] |
|-----------------|-----------------|---------------------|----------------------------|----------------------|-------------|-------------------------|-----------------------------------|-------------|-------------|
| 54.00           | V               | -                   | -                          | -60.87               | -14.41      | 31.72                   | -65.69                            | -13.00      | -52.69      |
| 142.00          | V               | -                   | -                          | -70.72               | -20.39      | 15.89                   | -81.52                            | -13.00      | -68.52      |
| 680.00          | V               | -                   | -                          | -70.31               | -6.85       | 29.84                   | -67.56                            | -13.00      | -54.56      |

Table 7-41. Radiated Spurious Data – Below 1GHz (NR Band n77 - C-Band – Mid Channel – SRS-2)

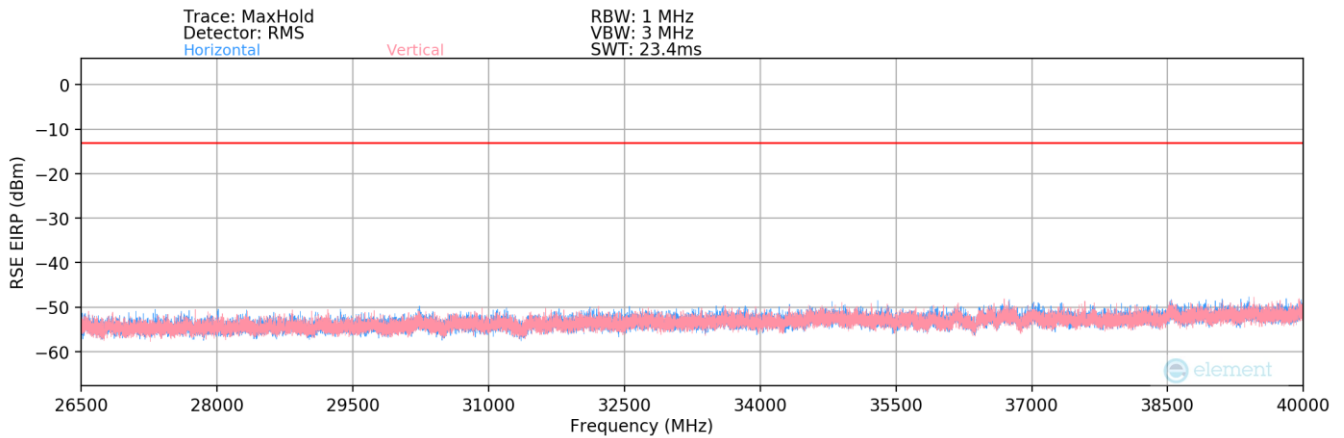
|   |  |                               |                                   |
|---|--|-------------------------------|-----------------------------------|
| FCC ID: A3LSMS918U                      | PART 27 MEASUREMENT REPORT             |                               | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2209010098-10.A3L | Test Dates:<br>10/13/2022 - 11/16/2022 | EUT Type:<br>Portable Handset | Page 182 of 199                   |



**Plot 7-274. Radiated Spurious Plot – 1-18GHz (NR Band n77 - C-Band – SRS-2)**



**Plot 7-275. Radiated Spurious Plot – 18-26.5GHz (NR Band n77 - C-Band – SRS-2)**



**Plot 7-276. Radiated Spurious Plot – 26.5-40GHz (NR Band n77 - C-Band – SRS-2)**

|   |  |                               |                                   |
|---|--|-------------------------------|-----------------------------------|
| FCC ID: A3LSMS918U                      | <b>PART 27 MEASUREMENT REPORT</b>      |                               | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2209010098-10.A3L | Test Dates:<br>10/13/2022 - 11/16/2022 | EUT Type:<br>Portable Handset | Page 183 of 199                   |



|                  |         |
|------------------|---------|
| Bandwidth (MHz): | 100     |
| Frequency (MHz): | 3840.00 |
| RB / Offset:     | 1 / 136 |

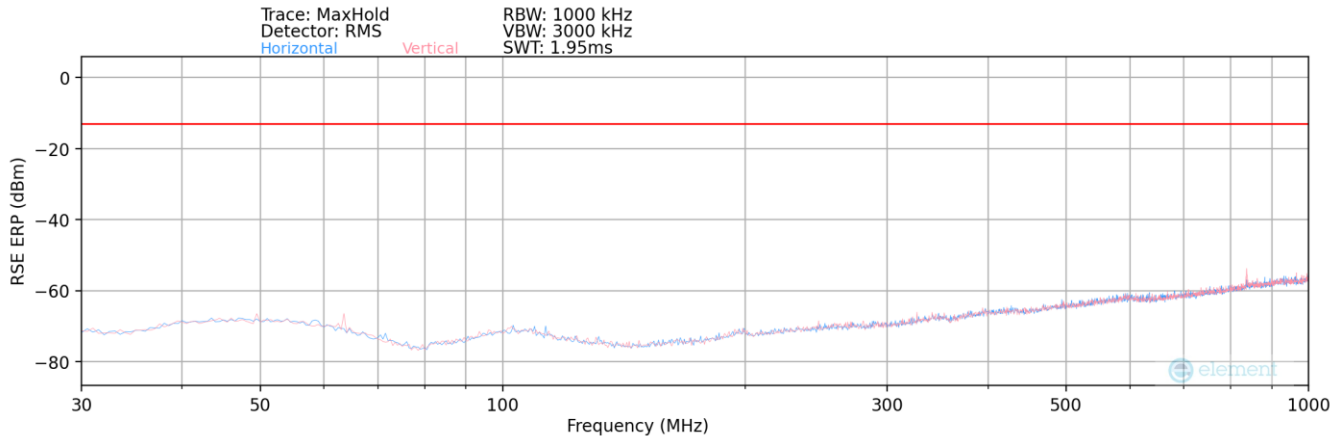
| Frequency [MHz] | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Field Strength [dBµV/m] | EIRP Spurious Emission Level [dBm] | Limit [dBm] | Margin [dB] |
|-----------------|-----------------|---------------------|----------------------------|----------------------|-------------|-------------------------|------------------------------------|-------------|-------------|
| 7680.00         | H               | 165                 | 24                         | -63.56               | 4.71        | 48.15                   | -47.10                             | -13.00      | -34.10      |
| 11520.00        | H               | 113                 | 347                        | -65.31               | 8.51        | 50.20                   | -45.06                             | -13.00      | -32.06      |
| 15360.00        | H               | -                   | -                          | -65.61               | 11.45       | 52.84                   | -42.41                             | -13.00      | -29.41      |
| 19200.00        | H               | -                   | -                          | -57.52               | 2.27        | 51.75                   | -53.05                             | -13.00      | -40.05      |

Table 7-42. Radiated Spurious Data – Above 1GHz (NR Band n77 - C-Band – Mid Channel – SRS-2)

|   |  |                               |                                   |
|---|--|-------------------------------|-----------------------------------|
| FCC ID: A3LSMS918U                      | PART 27 MEASUREMENT REPORT             |                               | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2209010098-10.A3L | Test Dates:<br>10/13/2022 - 11/16/2022 | EUT Type:<br>Portable Handset | Page 184 of 199                   |



## NR Band n77 (PC2) - C-Band – SRS-3



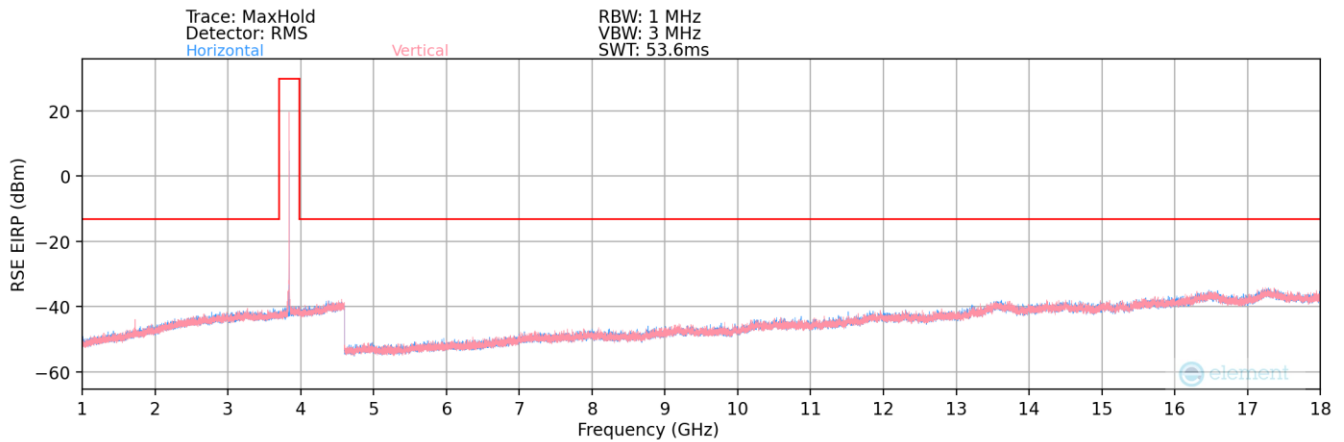
Plot 7-277. Radiated Spurious Plot – 30MHz-1GHz (NR Band n77 - C-Band – SRS-3)

|                  |         |
|------------------|---------|
| Bandwidth (MHz): | 100     |
| Frequency (MHz): | 3840.00 |
| RB / Offset:     | 1 / 136 |

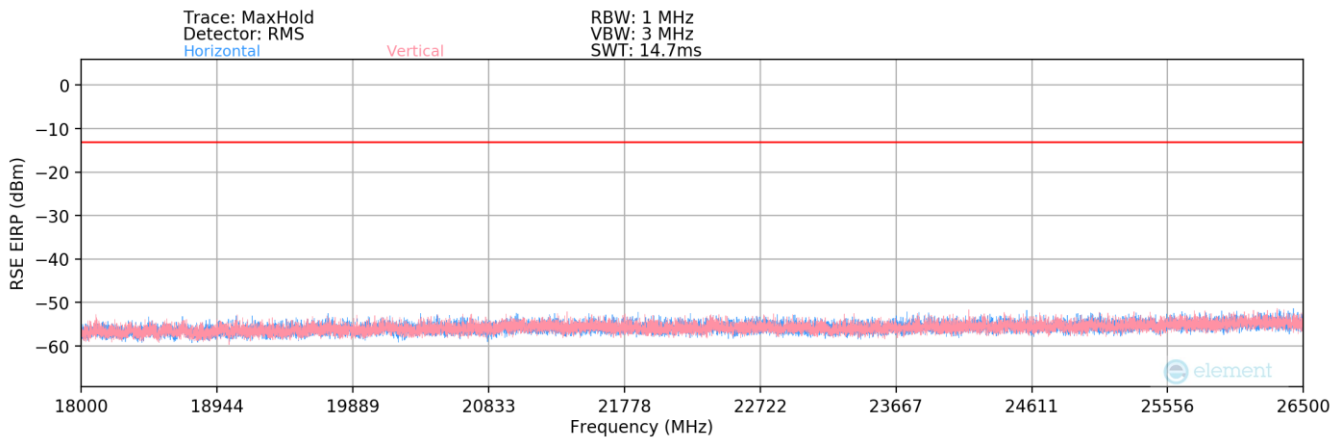
| Frequency [MHz] | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Field Strength [dBμV/m] | ERP Spurious Emission Level [dBm] | Limit [dBm] | Margin [dB] |
|-----------------|-----------------|---------------------|----------------------------|----------------------|-------------|-------------------------|-----------------------------------|-------------|-------------|
| 54.00           | V               | -                   | -                          | -61.23               | -14.41      | 31.36                   | -66.05                            | -13.00      | -53.05      |
| 142.00          | V               | -                   | -                          | -73.00               | -20.39      | 13.61                   | -83.80                            | -13.00      | -70.80      |
| 680.00          | V               | -                   | -                          | -71.14               | -6.85       | 29.01                   | -68.39                            | -13.00      | -55.39      |

Table 7-43. Radiated Spurious Data – Below 1GHz (NR Band n77 - C-Band – Mid Channel – SRS-3)

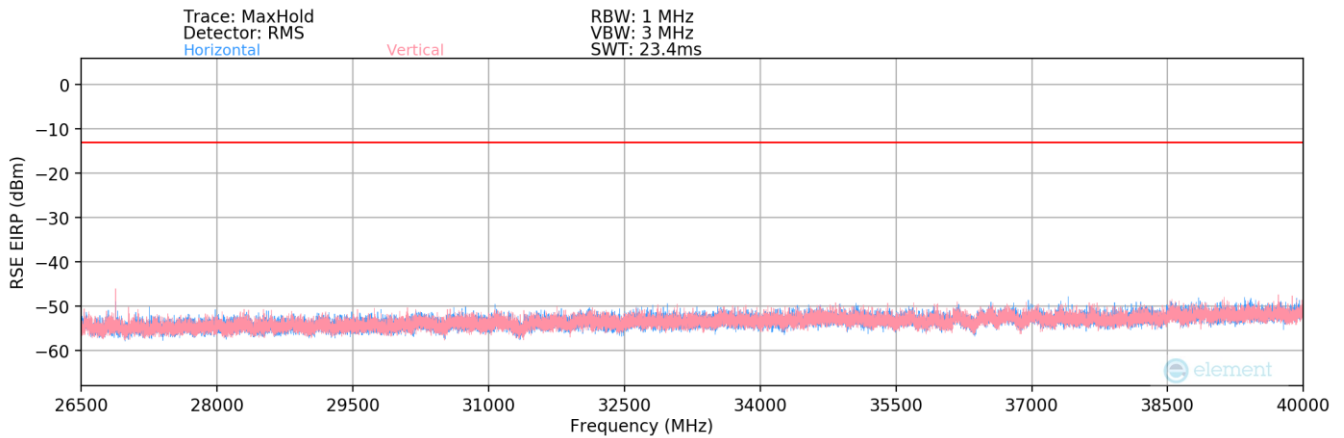
|   |  |                               |                                   |
|---|--|-------------------------------|-----------------------------------|
| FCC ID: A3LSMS918U                      | PART 27 MEASUREMENT REPORT             |                               | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2209010098-10.A3L | Test Dates:<br>10/13/2022 - 11/16/2022 | EUT Type:<br>Portable Handset | Page 185 of 199                   |



**Plot 7-278. Radiated Spurious Plot – 1-18GHz (NR Band n77 - C-Band – SRS-3)**



**Plot 7-279. Radiated Spurious Plot – 18-26.5GHz (NR Band n77 - C-Band – SRS-3)**



**Plot 7-280. Radiated Spurious Plot – 26.5-40GHz (NR Band n77 - C-Band – SRS-3)**

|   |  |                               |                                   |
|---|--|-------------------------------|-----------------------------------|
| FCC ID: A3LSMS918U                      | <b>PART 27 MEASUREMENT REPORT</b>      |                               | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2209010098-10.A3L | Test Dates:<br>10/13/2022 - 11/16/2022 | EUT Type:<br>Portable Handset | Page 186 of 199                   |



|                  |         |
|------------------|---------|
| Bandwidth (MHz): | 100     |
| Frequency (MHz): | 3840.00 |
| 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] |
|-----------------|-----------------|---------------------|----------------------------|----------------------|-------------|-------------------------|------------------------------------|-------------|-------------|
| 7680.00         | H               | 162                 | 62                         | -61.77               | 4.71        | 49.94                   | -45.31                             | -13.00      | -32.31      |
| 11520.00        | H               | 150                 | 74                         | -63.86               | 8.51        | 51.65                   | -43.61                             | -13.00      | -30.61      |
| 15360.00        | H               | -                   | -                          | -65.13               | 11.45       | 53.32                   | -41.93                             | -13.00      | -28.93      |
| 19200.00        | H               | 150                 | 329                        | -58.12               | 2.27        | 51.15                   | -53.65                             | -13.00      | -40.65      |
| 23040.00        | H               | -                   | -                          | -58.39               | 3.76        | 52.37                   | -52.43                             | -13.00      | -39.43      |
| 26880.00        | H               | 150                 | 336                        | -53.51               | 4.88        | 58.37                   | -46.43                             | -13.00      | -33.43      |
| 30720.00        | H               | -                   | -                          | -57.54               | 6.53        | 55.99                   | -48.81                             | -13.00      | -35.81      |
| 34560.00        | H               | -                   | -                          | -56.96               | 7.68        | 57.72                   | -47.08                             | -13.00      | -34.08      |

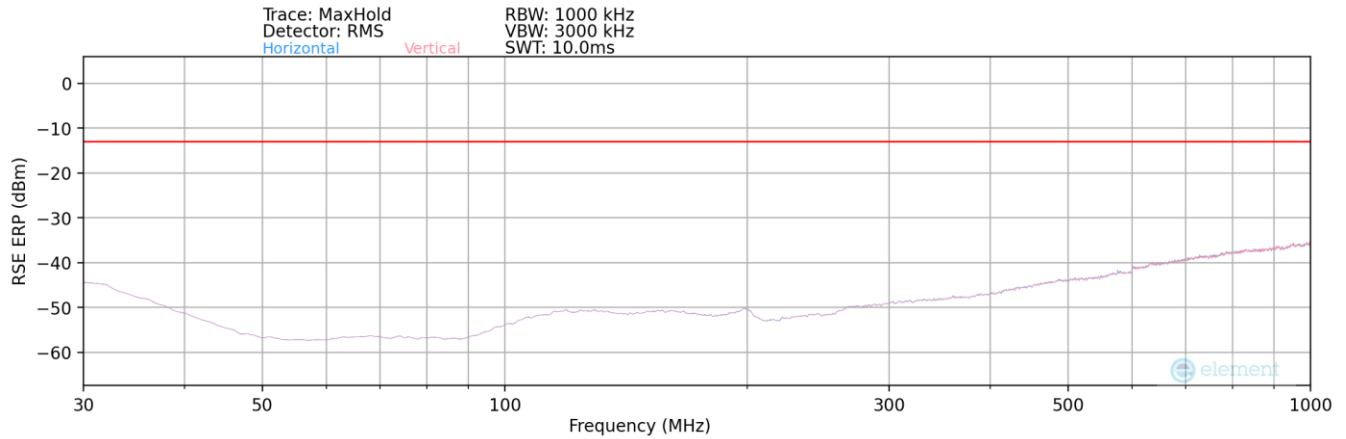
Table 7-44. Radiated Spurious Data – Above 1GHz (NR Band n77 - C-Band – Mid Channel – SRS-3)

|   |  |                               |                                   |
|---|--|-------------------------------|-----------------------------------|
| FCC ID: A3LSMS918U                      | PART 27 MEASUREMENT REPORT             |                               | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2209010098-10.A3L | Test Dates:<br>10/13/2022 - 11/16/2022 | EUT Type:<br>Portable Handset | Page 187 of 199                   |





## NR Band n77 (PC2) - C-Band – SRS-4



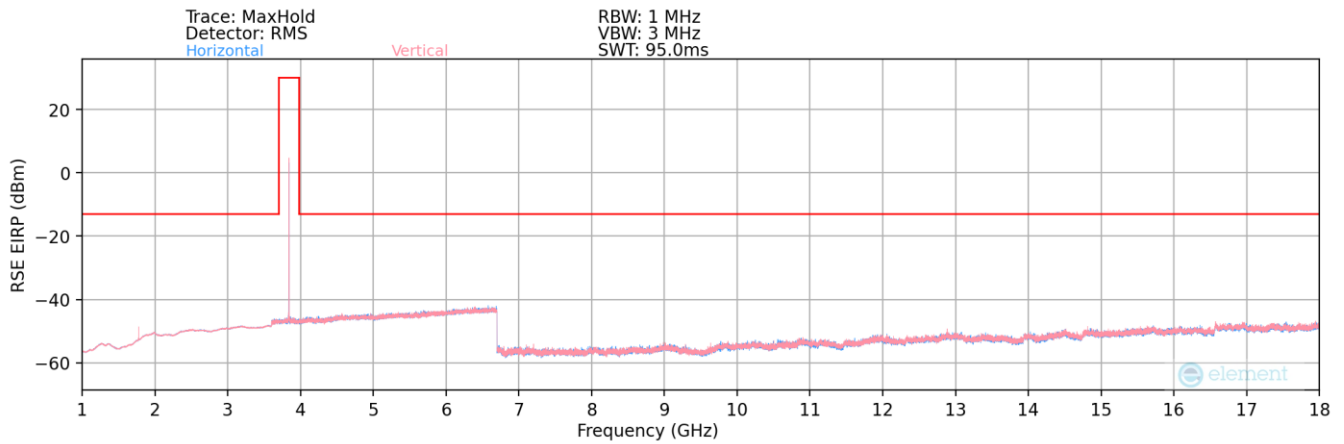
Plot 7-281. Radiated Spurious Plot – 30MHz-1GHz (NR Band n77 - C-Band – SRS-4)

|                  |         |
|------------------|---------|
| Bandwidth (MHz): | 100     |
| Frequency (MHz): | 3840.00 |
| RB / Offset:     | 1 / 136 |

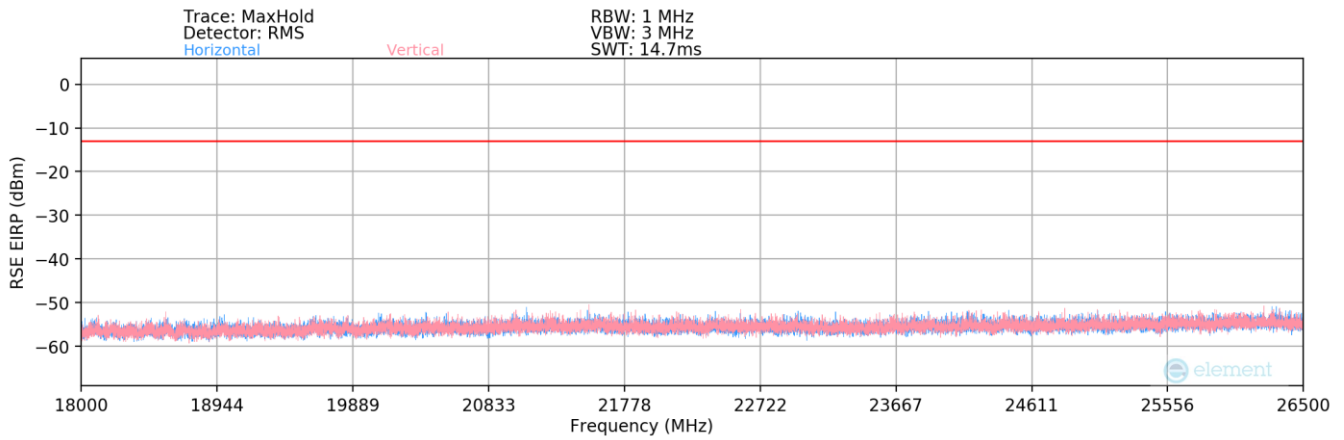
| Frequency [MHz] | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Field Strength [dBμV/m] | ERP Spurious Emission Level [dBm] | Limit [dBm] | Margin [dB] |
|-----------------|-----------------|---------------------|----------------------------|----------------------|-------------|-------------------------|-----------------------------------|-------------|-------------|
| 521.00          | V               | -                   | -                          | -67.62               | -9.74       | 29.64                   | -67.76                            | -13.00      | -54.76      |
| 837.00          | V               | -                   | -                          | -97.64               | -4.48       | 4.88                    | -92.52                            | -13.00      | -79.52      |

Table 7-45. Radiated Spurious Data – Below 1GHz (NR Band n77 - C-Band – Mid Channel – SRS-4)

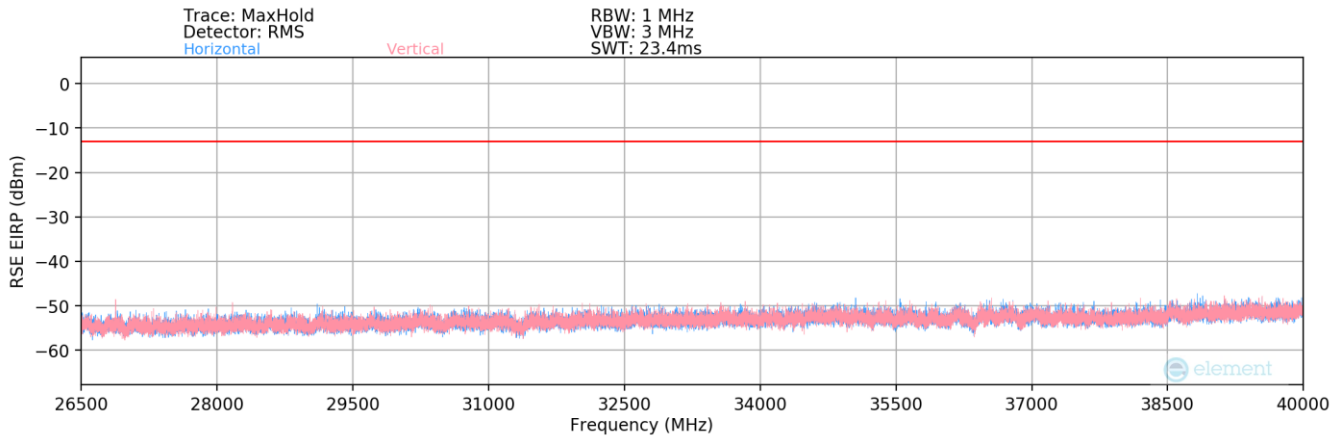
|   |  |                               |                                   |
|---|--|-------------------------------|-----------------------------------|
| FCC ID: A3LSMS918U                      | PART 27 MEASUREMENT REPORT             |                               | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2209010098-10.A3L | Test Dates:<br>10/13/2022 - 11/16/2022 | EUT Type:<br>Portable Handset | Page 188 of 199                   |



**Plot 7-282. Radiated Spurious Plot – 1-18GHz (NR Band n77 - C-Band – SRS-4)**



**Plot 7-283. Radiated Spurious Plot – 18-26.5GHz (NR Band n77 - C-Band – SRS-4)**



**Plot 7-284. Radiated Spurious Plot – 26.5-40GHz (NR Band n77 - C-Band – SRS-4)**

|   |  |                               |                                   |
|---|--|-------------------------------|-----------------------------------|
| FCC ID: A3LSMS918U                      | <b>PART 27 MEASUREMENT REPORT</b>      |                               | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2209010098-10.A3L | Test Dates:<br>10/13/2022 - 11/16/2022 | EUT Type:<br>Portable Handset | Page 189 of 199                   |



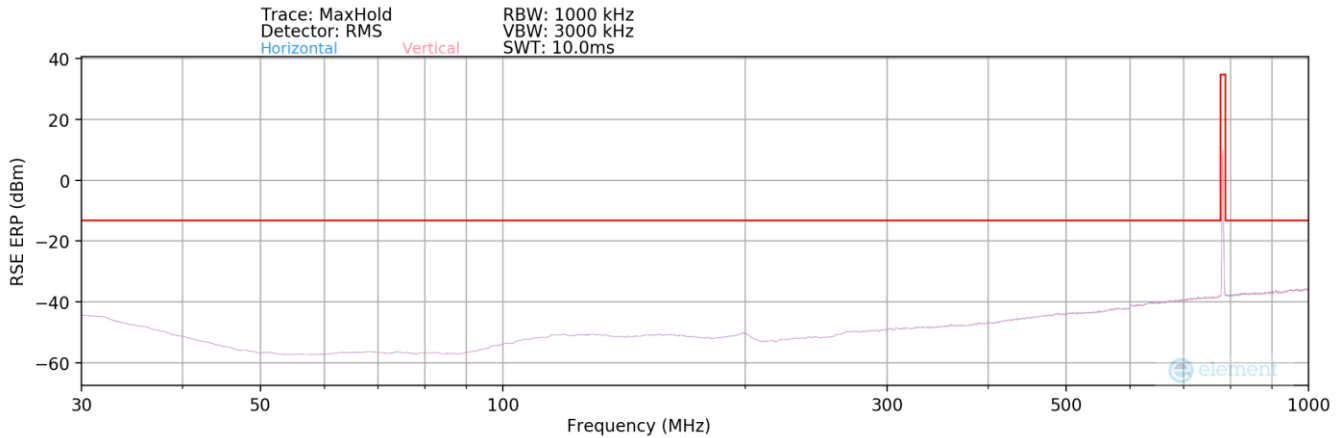
|                  |         |
|------------------|---------|
| Bandwidth (MHz): | 100     |
| Frequency (MHz): | 3840.00 |
| RB / Offset:     | 1 / 136 |

| 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] |
|-----------------|-----------------|---------------------|----------------------------|----------------------|-------------|-------------------------|------------------------------------|-------------|-------------|
| 7680.00         | V               | -                   | -                          | -73.69               | 15.97       | 49.28                   | -45.97                             | -13.00      | -32.97      |
| 11520.00        | V               | -                   | -                          | -74.21               | 22.12       | 54.91                   | -40.35                             | -13.00      | -27.35      |
| 15360.00        | V               | -                   | -                          | -75.67               | 27.34       | 58.67                   | -36.59                             | -13.00      | -23.59      |
| 19200.00        | V               | 150                 | 25                         | -58.31               | 2.27        | 50.96                   | -53.84                             | -13.00      | -40.84      |
| 23040.00        | V               | -                   | -                          | -58.50               | 3.76        | 52.26                   | -52.54                             | -13.00      | -39.54      |
| 26880.00        | V               | 150                 | 332                        | -53.62               | 4.88        | 58.26                   | -46.54                             | -13.00      | -33.54      |
| 30720.00        | V               | -                   | -                          | -58.22               | 6.53        | 55.31                   | -49.49                             | -13.00      | -36.49      |
| 34560.00        | V               | -                   | -                          | -56.14               | 7.68        | 58.54                   | -46.26                             | -13.00      | -33.26      |

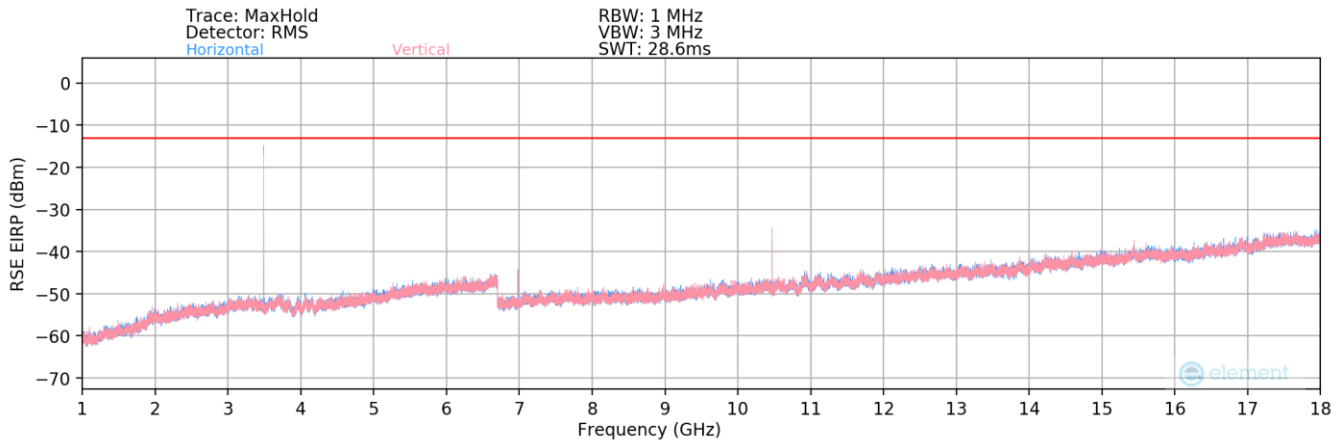
Table 7-46. Radiated Spurious Data – Above 1GHz (NR Band n77 - C-Band – Mid Channel – SRS-4)

|   |  |                               |                                   |
|---|--|-------------------------------|-----------------------------------|
| FCC ID: A3LSMS918U                      | PART 27 MEASUREMENT REPORT             |                               | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2209010098-10.A3L | Test Dates:<br>10/13/2022 - 11/16/2022 | EUT Type:<br>Portable Handset | Page 190 of 199                   |

## EN-DC – n77 (PC2) - DoD Band + B13



Plot 7-285. Radiated Spurious Plot – 30MHz-1GHz (NR Band n77 - DoD Band + EN-DC Anchor B13)



Plot 7-286. Radiated Spurious Plot – 1-18GHz (NR Band n77 - DoD Band + EN-DC Anchor B13)

|                  |                  |
|------------------|------------------|
| Bandwidth (MHz): | 100 / 10         |
| Frequency (MHz): | 3500.01 / 782    |
| RB / Offset:     | 1 / 135 & 1 / 25 |
| Mode:            | EN-DC            |
| Anchor Band:     | B13              |

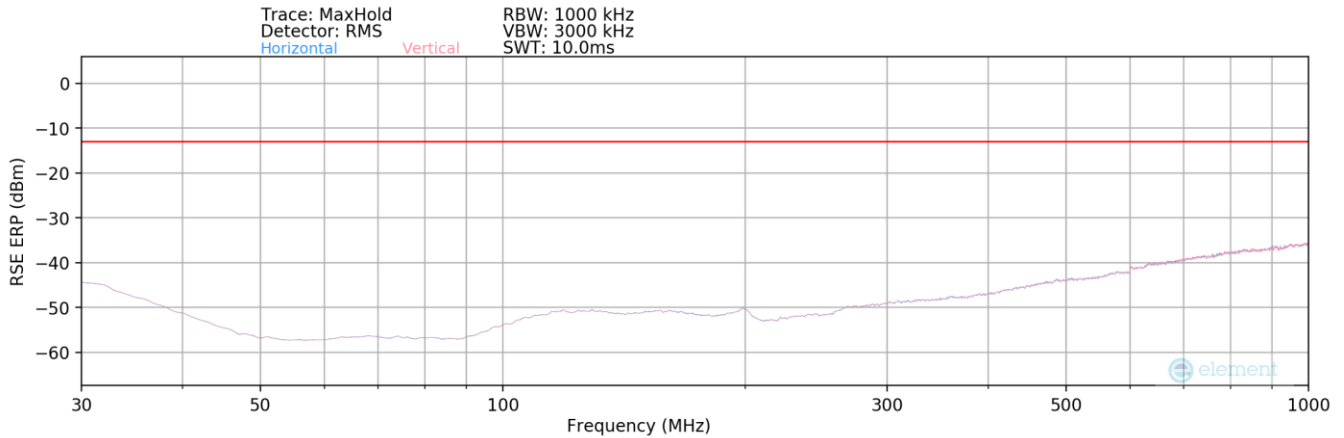
| Frequency [MHz] | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Field Strength [dBμV/m] | EIRP Spurious Emission Level [dBm] | Limit [dBm] | Margin [dB] |
|-----------------|-----------------|---------------------|----------------------------|----------------------|-------------|-------------------------|------------------------------------|-------------|-------------|
| 844.02          | H               | -                   | -                          | -98.96               | 30.86       | 38.90                   | -56.36                             | -13.00      | -43.36      |
| 1936.01         | H               | -                   | -                          | -67.09               | 0.56        | 40.47                   | -54.79                             | -13.00      | -41.79      |
| 4654.00         | H               | -                   | -                          | -65.83               | 6.04        | 47.21                   | -48.05                             | -13.00      | -35.05      |
| 6218.00         | H               | -                   | -                          | -66.48               | 9.15        | 49.67                   | -45.59                             | -13.00      | -32.59      |
| 7000.00         | H               | 116                 | 42                         | -65.04               | 11.34       | 53.30                   | -51.50                             | -13.00      | -38.50      |
| 8936.00         | H               | -                   | -                          | -67.24               | 13.57       | 53.33                   | -51.47                             | -13.00      | -38.47      |
| 10469.00        | H               | 270                 | 34                         | -61.87               | 15.81       | 60.94                   | -43.86                             | -13.00      | -30.86      |
| 11654.00        | H               | -                   | -                          | -66.39               | 17.59       | 58.20                   | -46.60                             | -13.00      | -33.60      |
| 14372.00        | H               | -                   | -                          | -65.18               | 20.69       | 62.51                   | -42.29                             | -13.00      | -29.29      |

Table 7-47. Radiated Spurious Data (NR Band n77 - DoD Band + EN-DC Anchor B13)

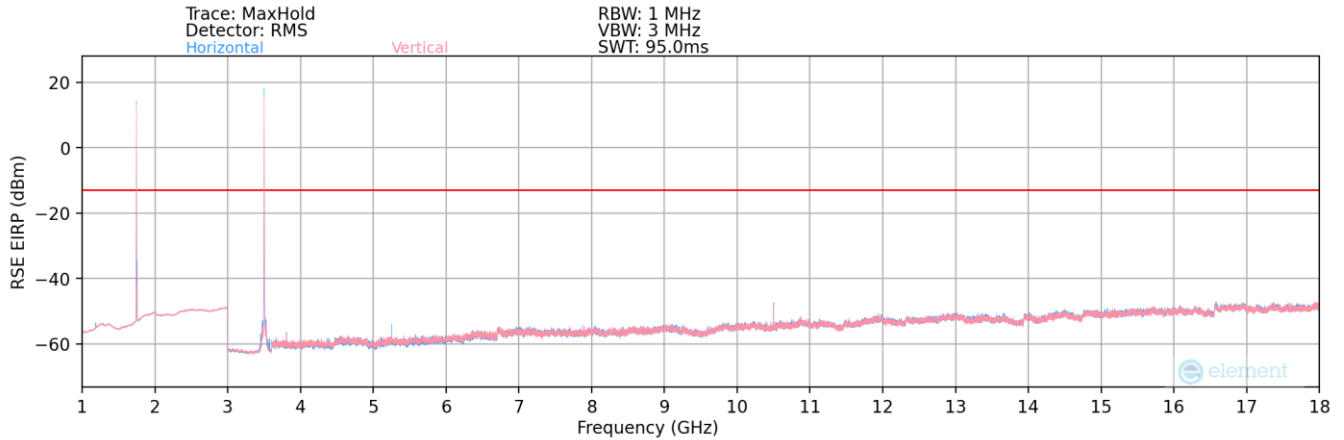
|   |  |                               |                                   |
|---|--|-------------------------------|-----------------------------------|
| FCC ID: A3LSMS918U                      | PART 27 MEASUREMENT REPORT             |                               | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2209010098-10.A3L | Test Dates:<br>10/13/2022 - 11/16/2022 | EUT Type:<br>Portable Handset | Page 191 of 199                   |



## EN-DC – n77 (PC2) - DoD Band + B66



Plot 7-287. Radiated Spurious Plot – 30MHz-1GHz (NR Band n77 - DoD Band + EN-DC Anchor B66)



Plot 7-288. Radiated Spurious Plot – 1-18GHz (NR Band n77 - DoD Band + EN-DC Anchor B66)

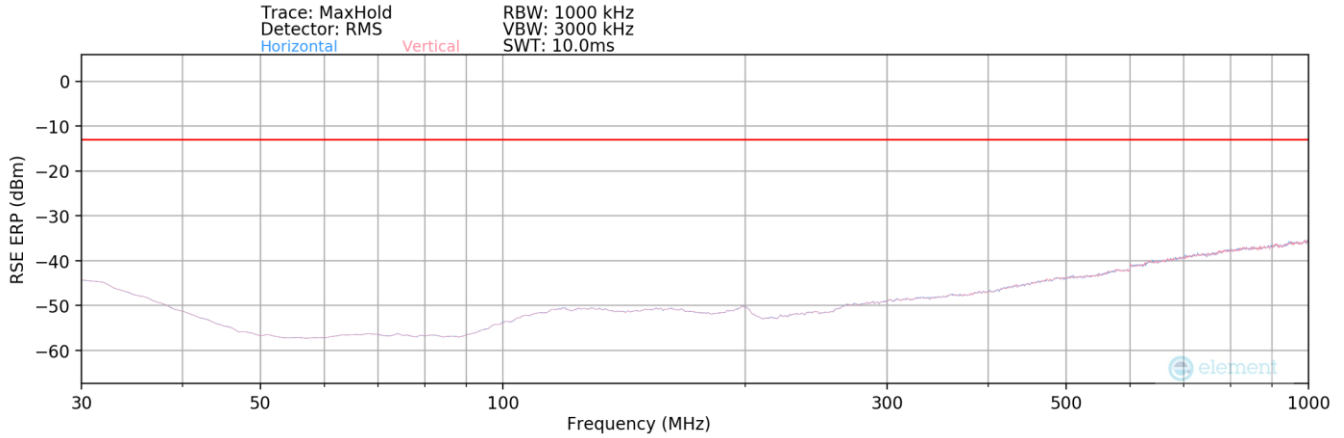
|                  |                  |
|------------------|------------------|
| Bandwidth (MHz): | 100 / 20         |
| Frequency (MHz): | 3500.01 / 1745   |
| RB / Offset:     | 1 / 135 & 1 / 50 |
| Mode:            | EN-DC            |
| Anchor Band:     | B66              |

| 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] |
|-----------------|-----------------|---------------------|----------------------------|----------------------|-------------|-------------------------|------------------------------------|-------------|-------------|
| 695.00          | H               | -                   | -                          | -107.57              | 28.66       | 28.09                   | -67.17                             | -13.00      | -54.17      |
| 1765.00         | V               | -                   | -                          | -65.96               | -0.37       | 40.67                   | -54.58                             | -13.00      | -41.58      |
| 3520.00         | H               | 375                 | 106                        | -37.34               | 5.45        | 75.11                   | -20.15                             | -13.00      | -7.15       |
| 5255.00         | H               | 375                 | 166                        | -65.86               | 7.71        | 48.85                   | -46.41                             | -13.00      | -33.41      |
| 5275.00         | H               | 124                 | 174                        | -66.13               | 7.71        | 48.58                   | -56.22                             | -13.00      | -43.22      |
| 7010.00         | H               | 126                 | 209                        | -64.84               | 11.14       | 53.30                   | -51.50                             | -13.00      | -38.50      |
| 8765.00         | H               | -                   | -                          | -67.90               | 13.56       | 52.66                   | -52.14                             | -13.00      | -39.14      |

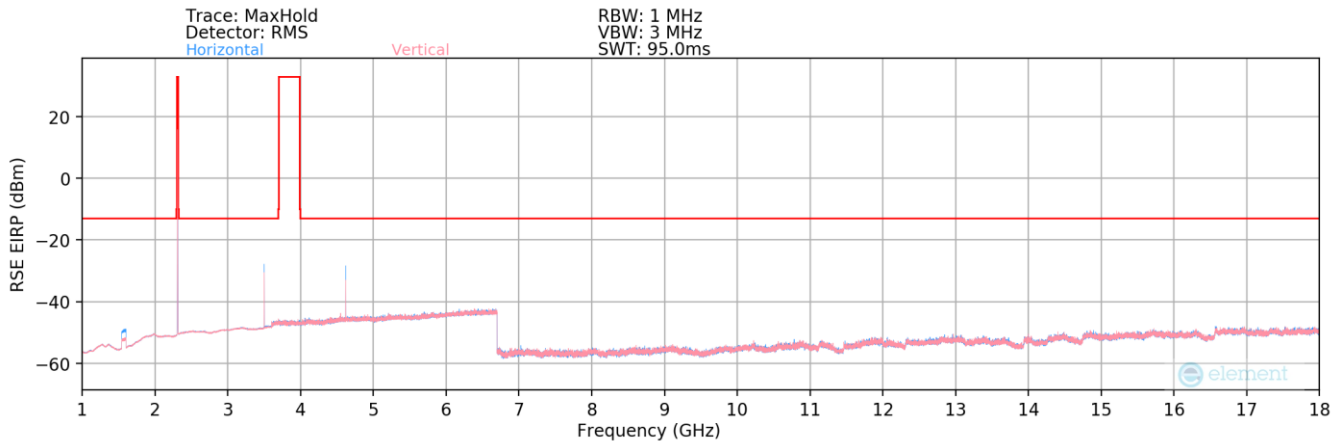
Table 7-48. Radiated Spurious Data (NR Band n77 - DoD Band + EN-DC Anchor B66)

|   |  |                               |                                   |
|---|--|-------------------------------|-----------------------------------|
| FCC ID: A3LSMS918U                      | PART 27 MEASUREMENT REPORT             |                               | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2209010098-10.A3L | Test Dates:<br>10/13/2022 - 11/16/2022 | EUT Type:<br>Portable Handset | Page 192 of 199                   |

## EN-DC – n77 (PC2) - DoD Band + B30



Plot 7-289. Radiated Spurious Plot – 30MHz-1GHz (NR Band n77 - DoD Band + EN-DC Anchor B30)



Plot 7-290. Radiated Spurious Plot – 1-18GHz (NR Band n77 - DoD Band + EN-DC Anchor B30)

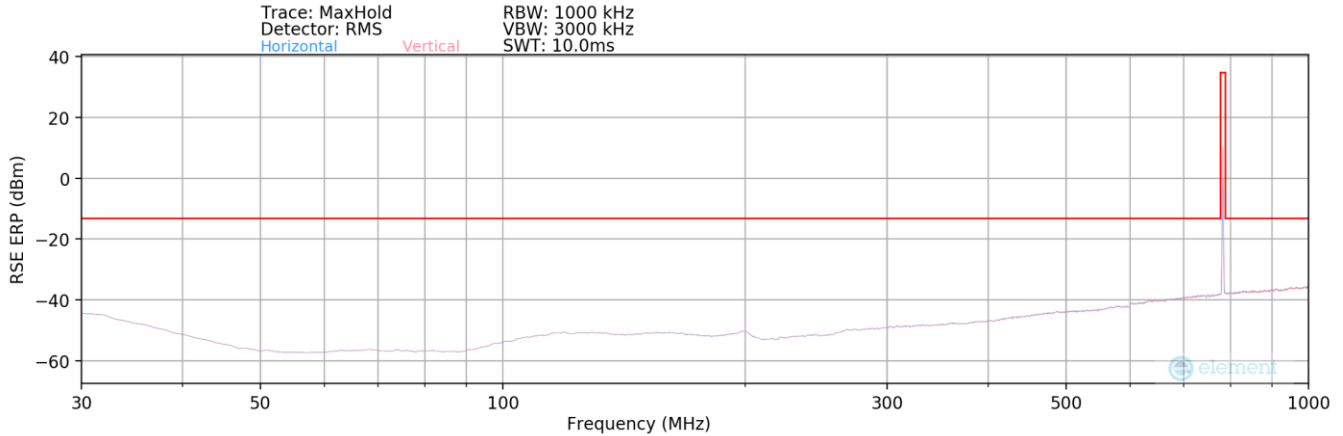
|                  |                  |
|------------------|------------------|
| Bandwidth (MHz): | 100 / 10         |
| Frequency (MHz): | 3500 / 2310      |
| RB / Offset:     | 1 / 135 & 1 / 25 |
| Mode:            | EN-DC            |
| Anchor Band:     | B30              |

| Frequency [MHz] | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Field Strength [dB $\mu$ V/m] | EIRP Spurious Emission Level [dBm] | Limit [dBm] | Margin [dB] |
|-----------------|-----------------|---------------------|----------------------------|----------------------|-------------|-------------------------------|------------------------------------|-------------|-------------|
| 140.00          | H               | -                   | -                          | -101.50              | 19.67       | 25.17                         | -70.09                             | -13.00      | -57.09      |
| 1580.00         | H               | 159                 | 170                        | -51.30               | 5.99        | 61.69                         | -33.57                             | -13.00      | -20.57      |
| 4620.00         | H               | 119                 | 24                         | -58.25               | 14.75       | 63.50                         | -31.76                             | -13.00      | -18.76      |
| 5670.00         | H               | -                   | -                          | -76.81               | 15.54       | 45.73                         | -59.07                             | -13.00      | -46.07      |
| 5950.00         | H               | -                   | -                          | -77.38               | 15.88       | 45.50                         | -59.30                             | -13.00      | -46.30      |

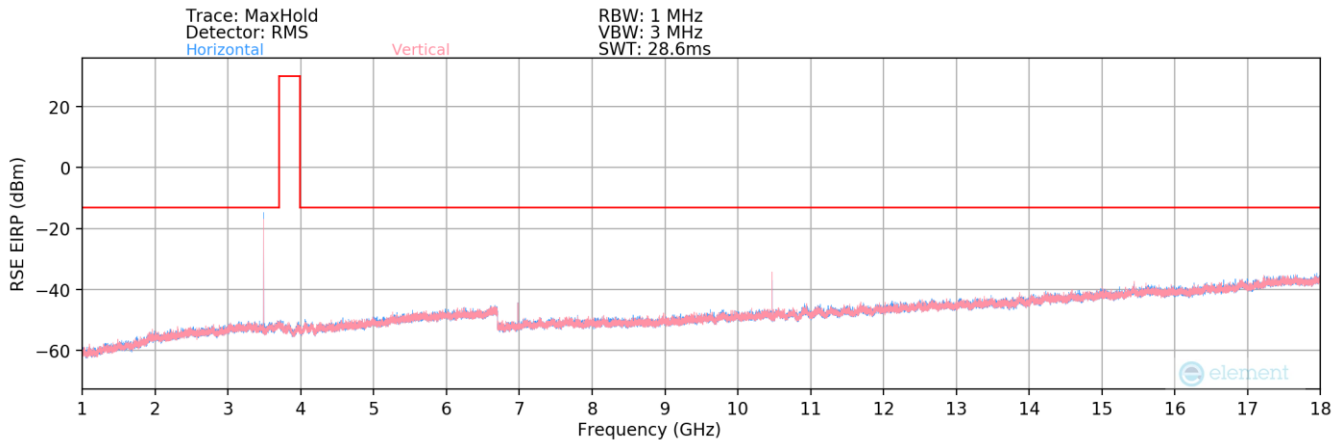
Table 7-49. Radiated Spurious Data (NR Band n77 - DoD Band + EN-DC Anchor B30)

|   |  |                               |                                   |
|---|--|-------------------------------|-----------------------------------|
| FCC ID: A3LSMS918U                      | PART 27 MEASUREMENT REPORT             |                               | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2209010098-10.A3L | Test Dates:<br>10/13/2022 - 11/16/2022 | EUT Type:<br>Portable Handset | Page 193 of 199                   |

## EN-DC – n77 (PC2) - C-Band + B13



Plot 7-291. Radiated Spurious Plot – 30MHz-1GHz (NR Band n77 - C-Band + EN-DC Anchor B13)



Plot 7-292. Radiated Spurious Plot – 1-18GHz (NR Band n77 - C-Band + EN-DC Anchor B13)

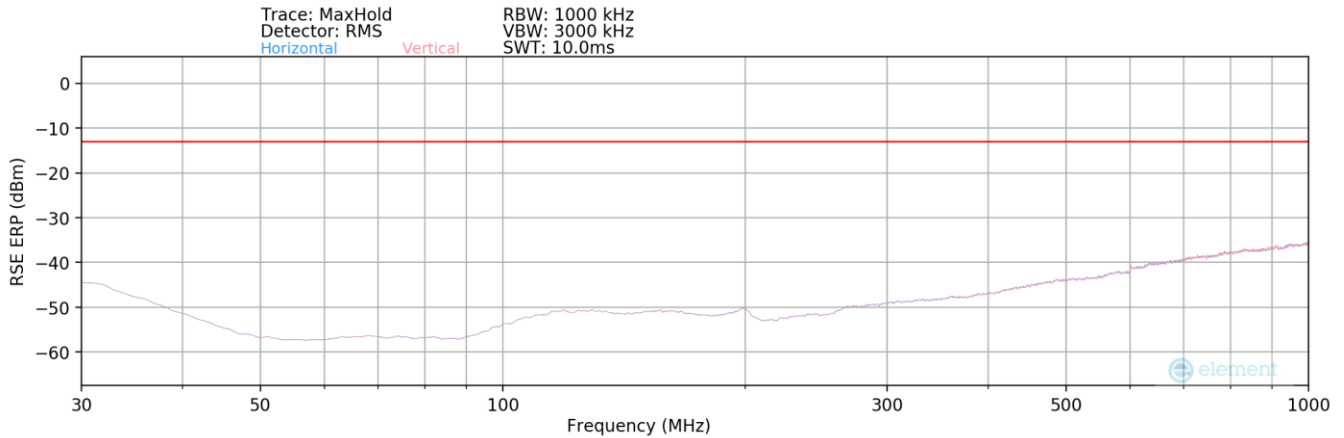
|                  |                  |
|------------------|------------------|
| Bandwidth (MHz): | 100 / 10         |
| Frequency (MHz): | 3840 / 782       |
| RB / Offset:     | 1 / 135 & 1 / 25 |
| Mode:            | EN-DC            |
| Anchor Band:     | B13              |

| 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] |
|-----------------|-----------------|---------------------|----------------------------|----------------------|-------------|-------------------------|------------------------------------|-------------|-------------|
| 712.00          | H               | -                   | -                          | -99.81               | 29.23       | 36.42                   | -58.84                             | -13.00      | -45.84      |
| 2276.00         | H               | -                   | -                          | -65.16               | 1.82        | 43.66                   | -51.60                             | -13.00      | -38.60      |
| 5334.00         | H               | -                   | -                          | -65.45               | 7.63        | 49.18                   | -46.08                             | -13.00      | -33.08      |
| 6898.00         | H               | -                   | -                          | -65.07               | 10.81       | 52.74                   | -42.51                             | -13.00      | -29.51      |
| 8392.00         | H               | -                   | -                          | -67.16               | 12.87       | 52.71                   | -52.09                             | -13.00      | -39.09      |
| 9956.00         | H               | -                   | -                          | -67.14               | 14.86       | 54.72                   | -50.08                             | -13.00      | -37.08      |
| 11450.00        | H               | 128                 | 331                        | -64.76               | 17.28       | 59.52                   | -45.28                             | -13.00      | -32.28      |
| 13014.00        | H               | -                   | -                          | -66.30               | 19.32       | 60.02                   | -44.78                             | -13.00      | -31.78      |
| 16072.00        | H               | -                   | -                          | -65.42               | 23.11       | 64.69                   | -40.11                             | -13.00      | -27.11      |

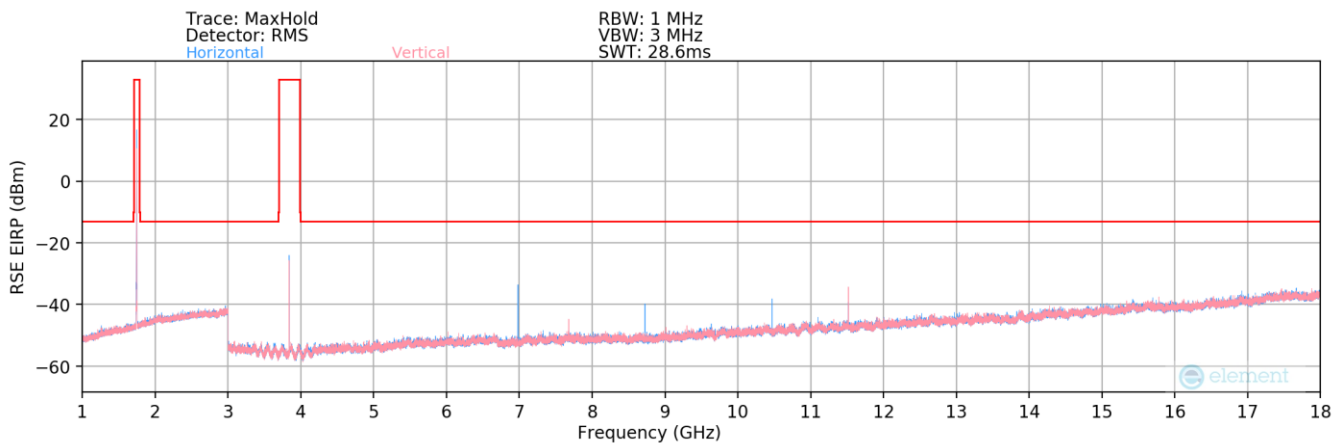
Table 7-50. Radiated Spurious Data (NR Band n77 - C-Band + EN-DC Anchor B13)

|   |  |                               |                                   |
|---|--|-------------------------------|-----------------------------------|
| FCC ID: A3LSMS918U                      | PART 27 MEASUREMENT REPORT             |                               | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2209010098-10.A3L | Test Dates:<br>10/13/2022 - 11/16/2022 | EUT Type:<br>Portable Handset | Page 194 of 199                   |

## EN-DC – n77 (PC2) - C-Band + B66



Plot 7-293. Radiated Spurious Plot – 30MHz-1GHz (NR Band n77 - C-Band + EN-DC Anchor B66)



Plot 7-294. Radiated Spurious Plot – 1-18GHz (NR Band n77 - C-Band + EN-DC Anchor B66)

|                  |                  |
|------------------|------------------|
| Bandwidth (MHz): | 100 / 20         |
| Frequency (MHz): | 3840 / 1745      |
| RB / Offset:     | 1 / 135 & 1 / 50 |
| Mode:            | EN-DC            |
| Anchor Band:     | B66              |

| 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] |
|-----------------|-----------------|---------------------|----------------------------|----------------------|-------------|-------------------------|------------------------------------|-------------|-------------|
| 695.00          | H               | -                   | -                          | -101.10              | 28.66       | 34.56                   | -60.70                             | -13.00      | -47.70      |
| 2445.00         | V               | -                   | -                          | -66.38               | 5.36        | 45.98                   | -49.27                             | -13.00      | -36.27      |
| 4540.00         | H               | -                   | -                          | -67.10               | 6.97        | 46.87                   | -48.39                             | -13.00      | -35.39      |
| 5935.00         | H               | -                   | -                          | -66.52               | 9.20        | 49.68                   | -45.58                             | -13.00      | -32.58      |
| 6635.00         | H               | -                   | -                          | -66.19               | 10.01       | 50.82                   | -53.98                             | -13.00      | -40.98      |
| 8030.00         | H               | -                   | -                          | -66.54               | 13.30       | 53.76                   | -51.04                             | -13.00      | -38.04      |
| 10125.00        | H               | -                   | -                          | -67.42               | 15.64       | 55.22                   | -49.58                             | -13.00      | -36.58      |
| 12220.00        | H               | -                   | -                          | -66.67               | 18.79       | 59.12                   | -45.68                             | -13.00      | -32.68      |

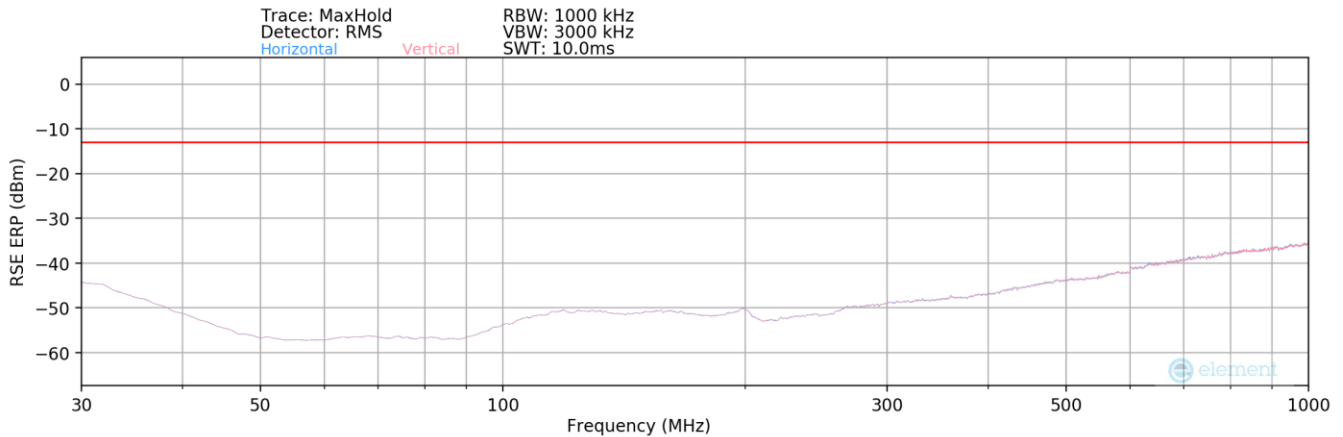
Table 7-51. Radiated Spurious Data (NR Band n77 - C-Band + EN-DC Anchor B66)

|   |  |                               |                                   |
|---|--|-------------------------------|-----------------------------------|
| FCC ID: A3LSMS918U                      | PART 27 MEASUREMENT REPORT             |                               | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2209010098-10.A3L | Test Dates:<br>10/13/2022 - 11/16/2022 | EUT Type:<br>Portable Handset | Page 195 of 199                   |

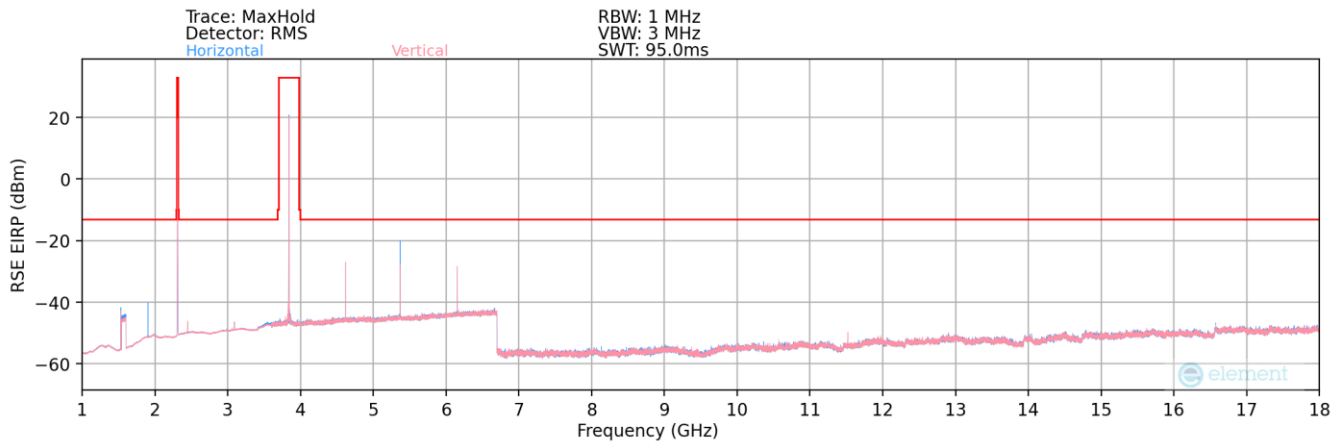




## EN-DC – n77 (PC2) - C-Band + B30



Plot 7-295. Radiated Spurious Plot – 30MHz-1GHz (NR Band n77 - C-Band + EN-DC Anchor B30)



Plot 7-296. Radiated Spurious Plot – 1-18GHz (NR Band n77 - C-Band + EN-DC Anchor B30)

|                  |                  |
|------------------|------------------|
| Bandwidth (MHz): | 100 / 10         |
| Frequency (MHz): | 3840 / 2310      |
| RB / Offset:     | 1 / 135 & 1 / 25 |
| Mode:            | EN-DC            |
| Anchor Band:     | B30              |

| 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] |
|-----------------|-----------------|---------------------|----------------------------|----------------------|-------------|-------------------------|------------------------------------|-------------|-------------|
| 140.00          | H               | -                   | -                          | -101.25              | 19.76       | 25.51                   | -69.75                             | -13.00      | -56.75      |
| 1580.00         | H               | 154                 | 167                        | -50.35               | 5.99        | 62.64                   | -32.62                             | -13.00      | -19.62      |
| 4620.00         | H               | 153                 | 168                        | -48.73               | 14.75       | 73.02                   | -31.78                             | -13.00      | -18.78      |
| 4760.00         | H               | -                   | -                          | -75.92               | 14.40       | 45.48                   | -59.32                             | -13.00      | -46.32      |
| 5370.00         | H               | -                   | -                          | -76.82               | 15.54       | 45.72                   | -59.08                             | -13.00      | -46.08      |
| 6150.00         | H               | -                   | -                          | -77.29               | 15.73       | 45.44                   | -59.36                             | -13.00      | -46.36      |

Table 7-52. Radiated Spurious Data (NR Band n77 - C-Band + EN-DC Anchor B30)

|   |  |                               |                                   |
|---|--|-------------------------------|-----------------------------------|
| FCC ID: A3LSMS918U                      | PART 27 MEASUREMENT REPORT             |                               | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2209010098-10.A3L | Test Dates:<br>10/13/2022 - 11/16/2022 | EUT Type:<br>Portable Handset | Page 196 of 199                   |



## 7.9 Frequency Stability / Temperature Variation

### Test Overview and Limit

Frequency stability testing is performed in accordance with the guidelines of ANSI C63.26-2015. The frequency stability of the transmitter is measured by:

- a.) **Temperature:** The temperature is varied from -30°C to +50°C in 10°C increments using an environmental chamber.
- b.) **Primary Supply Voltage:** The primary supply voltage is varied from 85% to 115% of the nominal value for non hand-carried battery and AC powered equipment. For hand-carried, battery-powered equipment, primary supply voltage is reduced to the battery operating end point which shall be specified by the manufacturer.

***For Part 27, the frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block.***

### Test Procedure Used

ANSI C63.26-2015 – Section 5.6

### Test Settings

1. The carrier frequency of the transmitter is measured at room temperature (20°C to provide a reference).
2. The equipment is turned on in a “standby” condition for fifteen minutes before applying power to the transmitter. Measurement of the carrier frequency of the transmitter is made within one minute after applying power to the transmitter.
3. Frequency measurements are made at 10°C intervals ranging from -30°C to +50°C. A period of at least one half-hour is provided to allow stabilization of the equipment at each temperature level.

### Test Setup

The EUT was connected via an RF cable to a spectrum analyzer with the EUT placed inside an environmental chamber.

### Test Notes

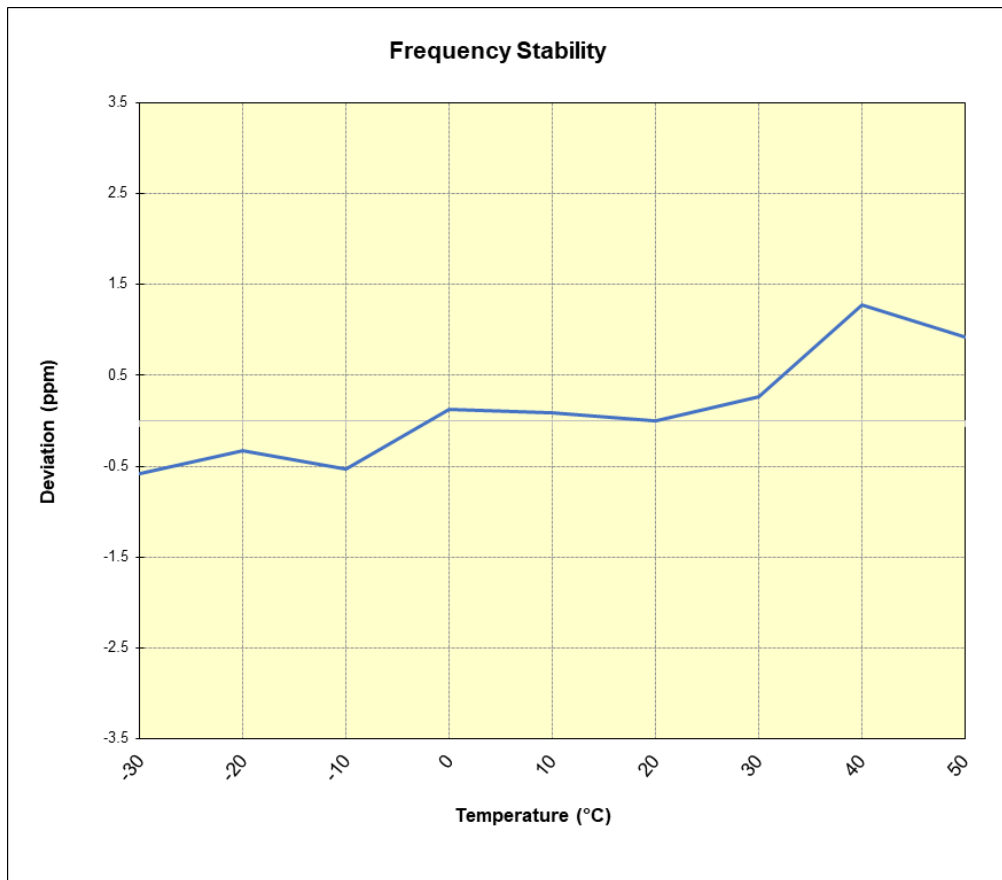
None

|   |  |                               |                                   |
|---|--|-------------------------------|-----------------------------------|
| FCC ID: A3LSMS918U                      | PART 27 MEASUREMENT REPORT             |                               | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2209010098-10.A3L | Test Dates:<br>10/13/2022 - 11/16/2022 | EUT Type:<br>Portable Handset | Page 197 of 199                   |

## NR Band n77 (PC2)

| NR Band n77               |             |               |                |                 |               |
|---------------------------|-------------|---------------|----------------|-----------------|---------------|
| Operating Frequency (Hz): |             | 3,840,000,000 |                |                 |               |
| Ref. Voltage (VDC):       |             | 4.28          |                |                 |               |
| Voltage (%)               | Power (VDC) | Temp (°C)     | Frequency (Hz) | Freq. Dev. (Hz) | Deviation (%) |
| 100 %                     | 4.28        | - 30          | 3,840,029,463  | -2,206          | -0.0000574    |
|                           |             | - 20          | 3,840,030,402  | -1,267          | -0.0000330    |
|                           |             | - 10          | 3,840,029,657  | -2,012          | -0.0000524    |
|                           |             | 0             | 3,840,032,147  | 478             | 0.0000124     |
|                           |             | + 10          | 3,840,031,987  | 318             | 0.0000083     |
|                           |             | + 20 (Ref)    | 3,840,031,669  | 0               | 0.0000000     |
|                           |             | + 30          | 3,840,032,698  | 1,029           | 0.0000268     |
|                           |             | + 40          | 3,840,036,547  | 4,878           | 0.0001270     |
| Battery Endpoint          | 3.47        | + 20          | 3,840,030,027  | -1,642          | -0.0000428    |

Table 7-53. NR Band n77 - Frequency Stability Data



Plot 7-297. NR Band n77 - Frequency Stability Chart

| FCC ID: A3LSMS918U                      | PART 27 MEASUREMENT REPORT             |                               | Approved by:<br>Technical Manager |
|---|--|-------------------------------|-----------------------------------|
| Test Report S/N:<br>1M2209010098-10.A3L | Test Dates:<br>10/13/2022 - 11/16/2022 | EUT Type:<br>Portable Handset | Page 198 of 199                   |

## 8.0 CONCLUSION

The data collected relate only to the item(s) tested and show that the **Samsung Portable Handset FCC ID: A3LSMS918U** complies with all the requirements of Part 27 of the FCC rules.

|  |   |                                      |  |
|--|---|--------------------------------------|--|
| <b>FCC ID:</b> A3LSMS918U                      | <b>PART 27 MEASUREMENT REPORT</b>             |                                      | <b>Approved by:</b><br>Technical Manager |
| <b>Test Report S/N:</b><br>1M2209010098-10.A3L | <b>Test Dates:</b><br>10/13/2022 - 11/16/2022 | <b>EUT Type:</b><br>Portable Handset | Page 199 of 199                          |