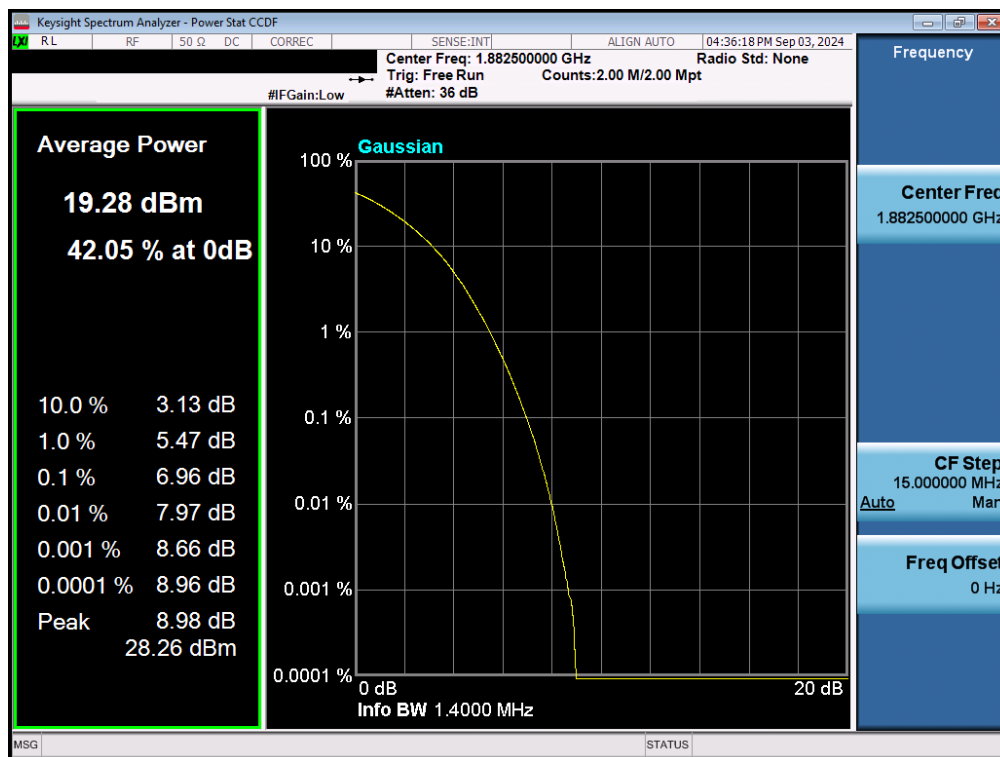
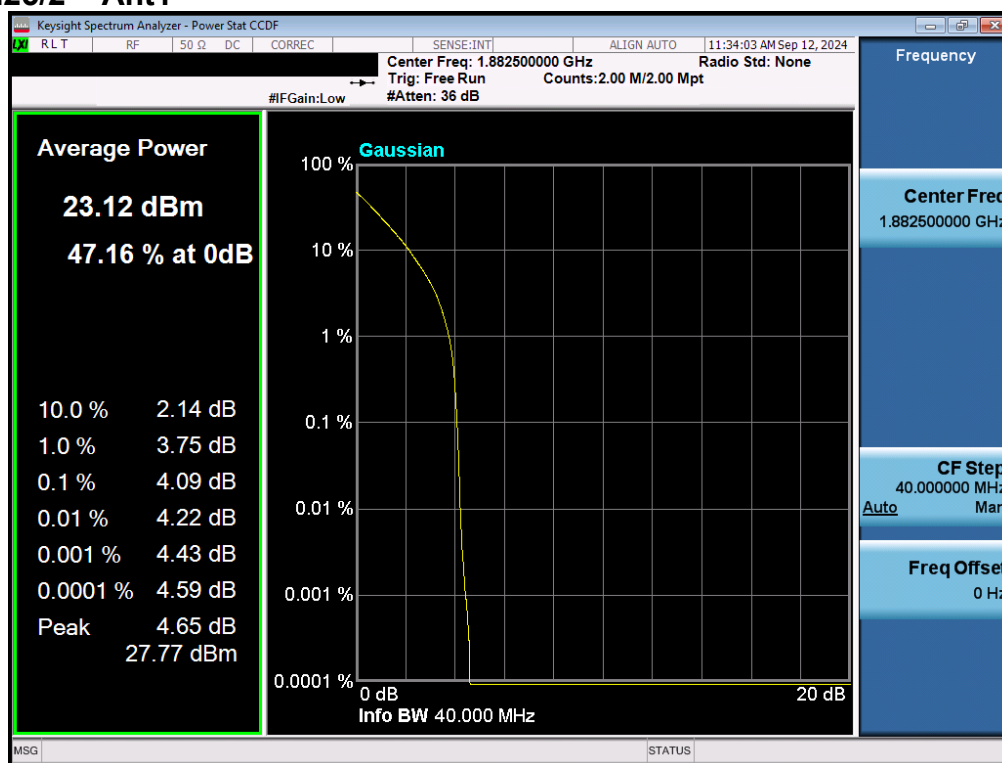




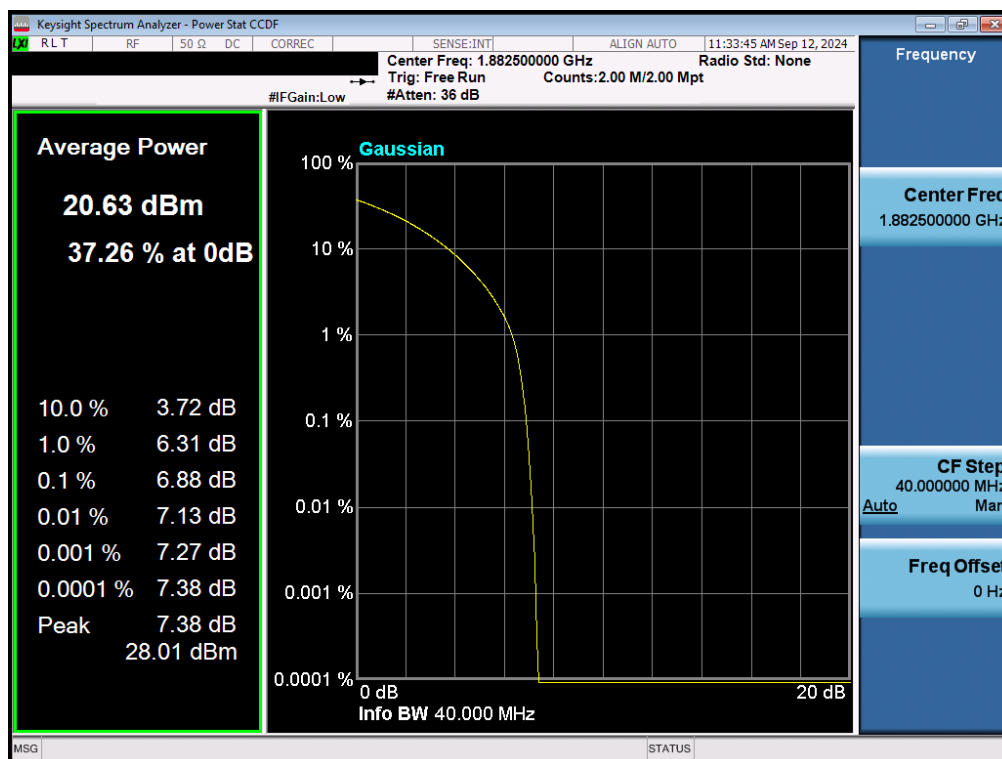
Plot 7-175. PAR Plot (LTE Band 25/2 - 1.4MHz 256-QAM - Full RB - Ant1)

|                                         |                                      |                               |                                   |
|-----------------------------------------|--------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMS936U                      | PART 24 MEASUREMENT REPORT           |                               | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2408260064-02.A3L | Test Dates:<br>9/4/2024 - 10/10/2024 | EUT Type:<br>Portable Handset | Page 118 of 177                   |

## NR Band n25/2 – Ant1

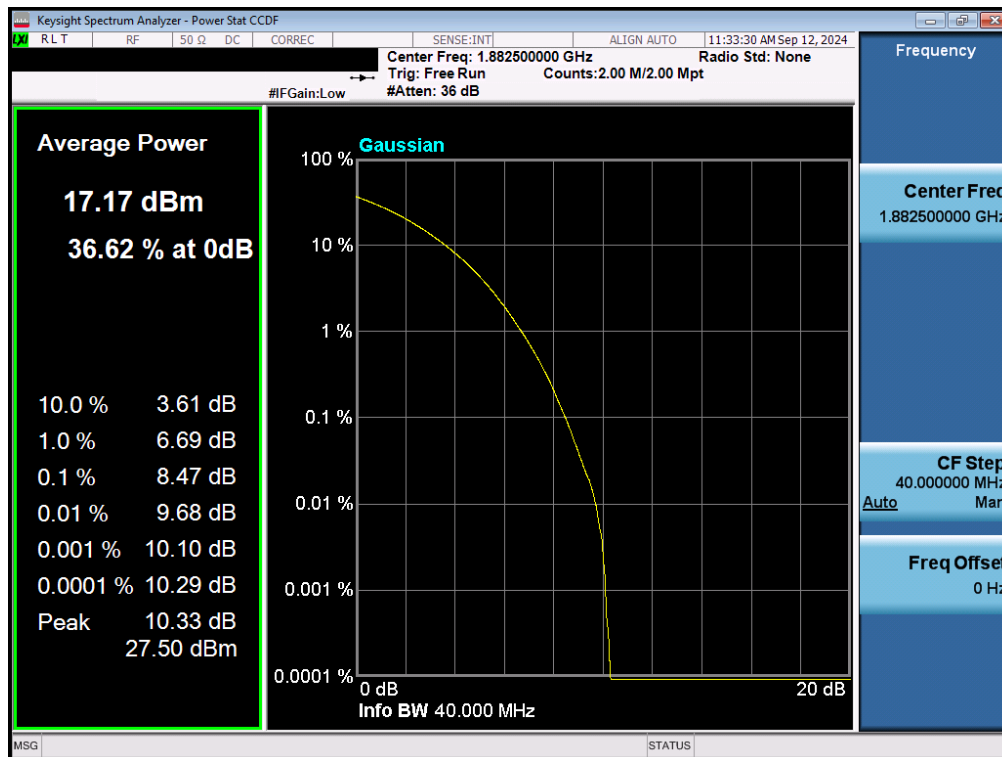


Plot 7-176. PAR Plot (NR Band n25/2 - 40.0MHz DFT-s-OFDM BPSK - Full RB - ANT1)

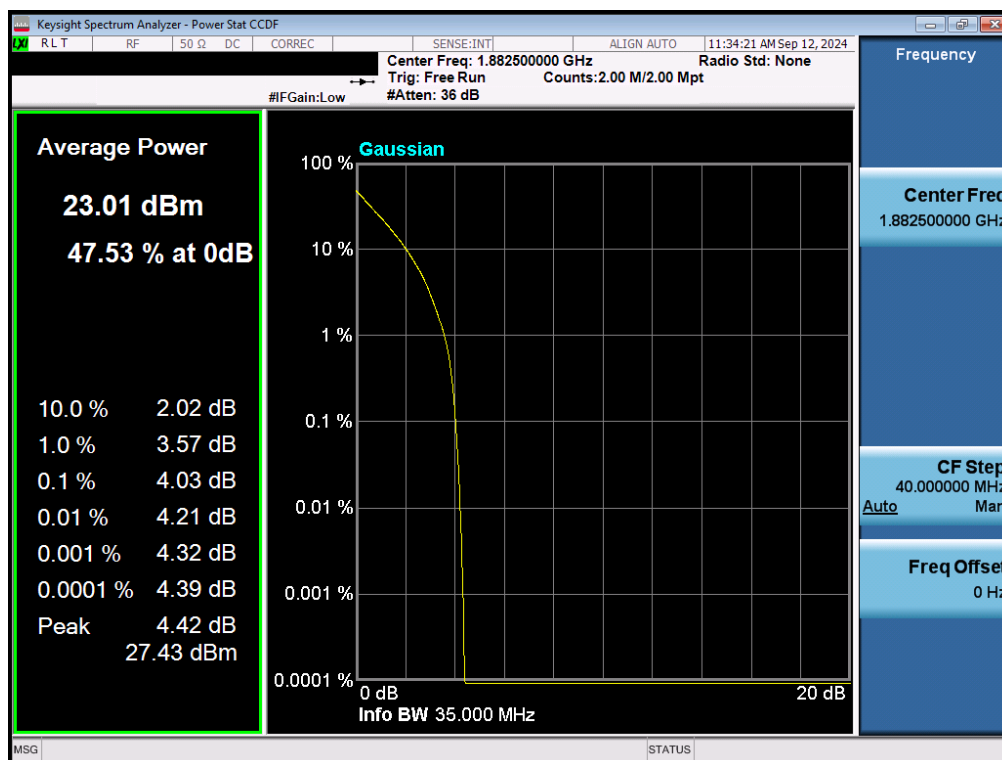


Plot 7-177. PAR Plot (NR Band n25/2 - 40.0MHz CP-OFDM QPSK - Full RB - ANT1)

|                                         |                                      |                               |                                   |
|-----------------------------------------|--------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMS936U                      | PART 24 MEASUREMENT REPORT           |                               | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2408260064-02.A3L | Test Dates:<br>9/4/2024 - 10/10/2024 | EUT Type:<br>Portable Handset | Page 119 of 177                   |

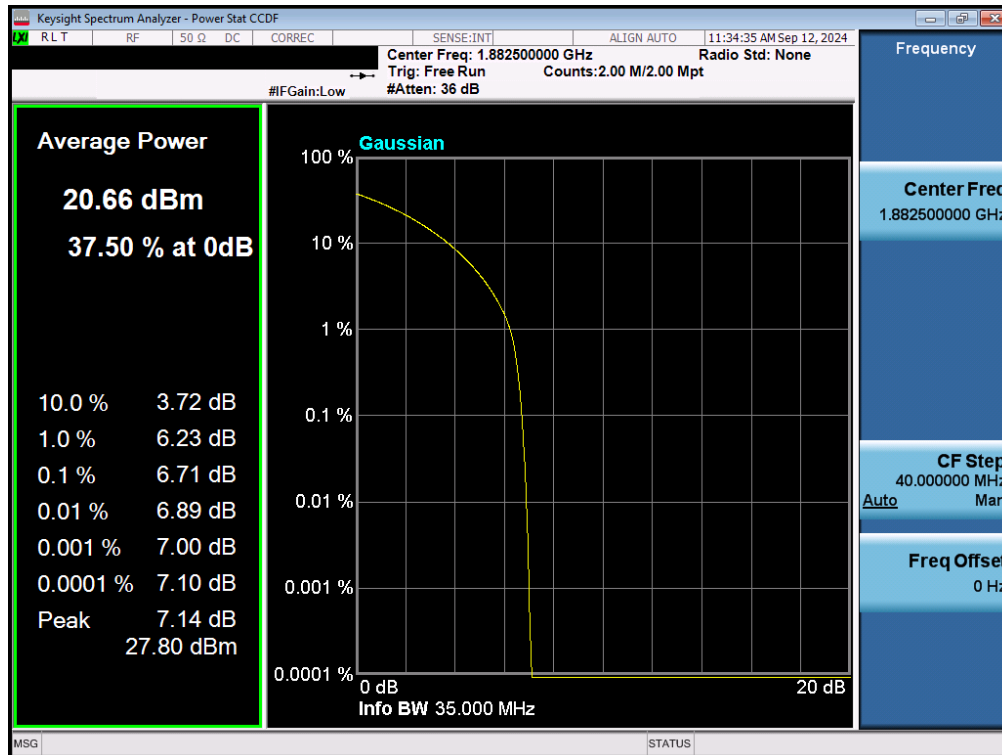


Plot 7-178. PAR Plot (NR Band n25/2 - 40.0MHz CP-OFDM 256-QAM - Full RB - ANT1)

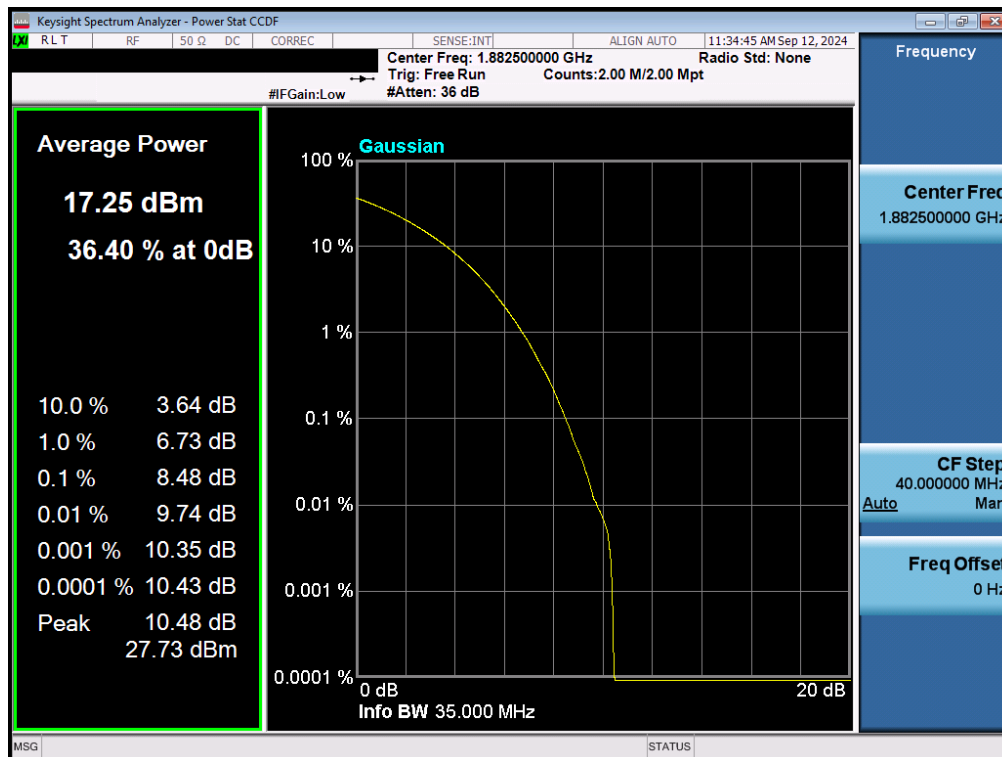


Plot 7-179. PAR Plot (NR Band n25/2 - 35.0MHz DFT-s-OFDM BPSK - Full RB - ANT1)

|                                         |                                      |                               |                                   |
|-----------------------------------------|--------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMS936U                      | PART 24 MEASUREMENT REPORT           |                               | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2408260064-02.A3L | Test Dates:<br>9/4/2024 - 10/10/2024 | EUT Type:<br>Portable Handset | Page 120 of 177                   |

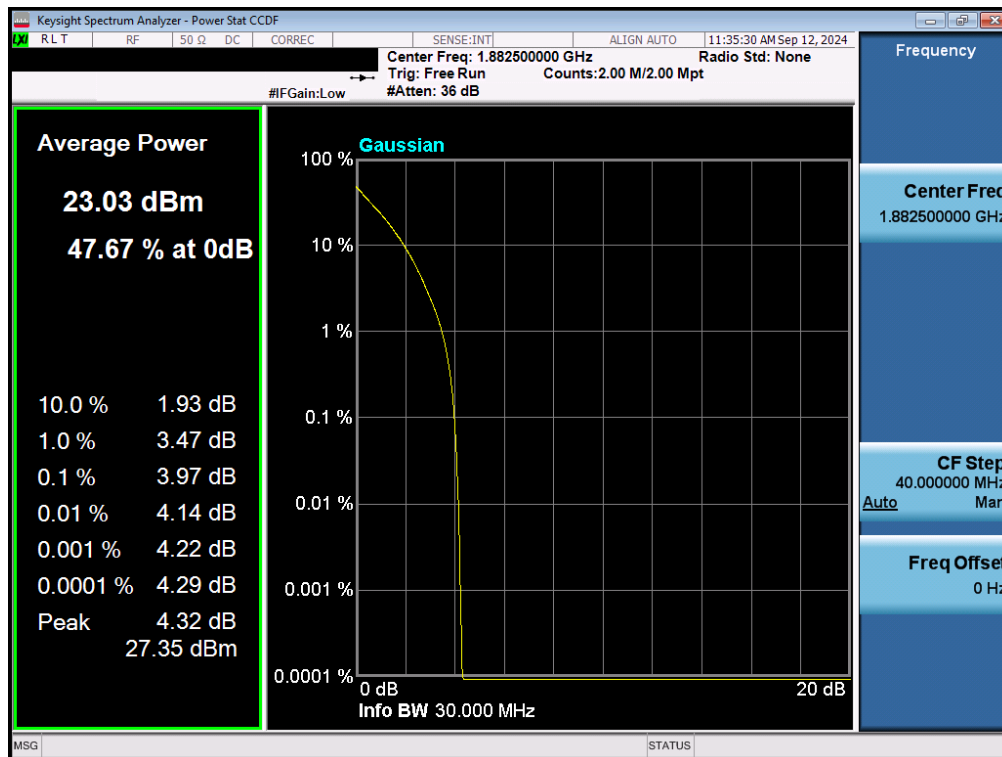


Plot 7-180. PAR Plot (NR Band n25/2 - 35.0MHz CP-OFDM QPSK - Full RB - ANT1)

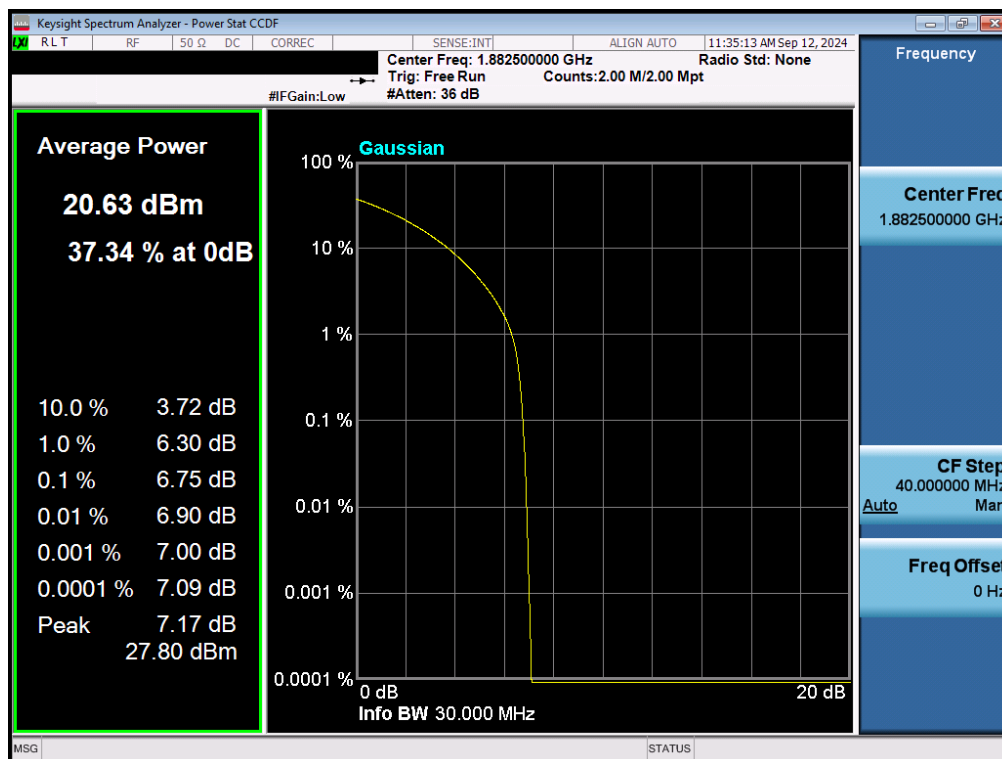


Plot 7-181. PAR Plot (NR Band n25/2 - 35.0MHz CP-OFDM 256-QAM - Full RB - ANT1)

|                                         |                                      |                               |                                   |
|-----------------------------------------|--------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMS936U                      | PART 24 MEASUREMENT REPORT           |                               | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2408260064-02.A3L | Test Dates:<br>9/4/2024 - 10/10/2024 | EUT Type:<br>Portable Handset | Page 121 of 177                   |

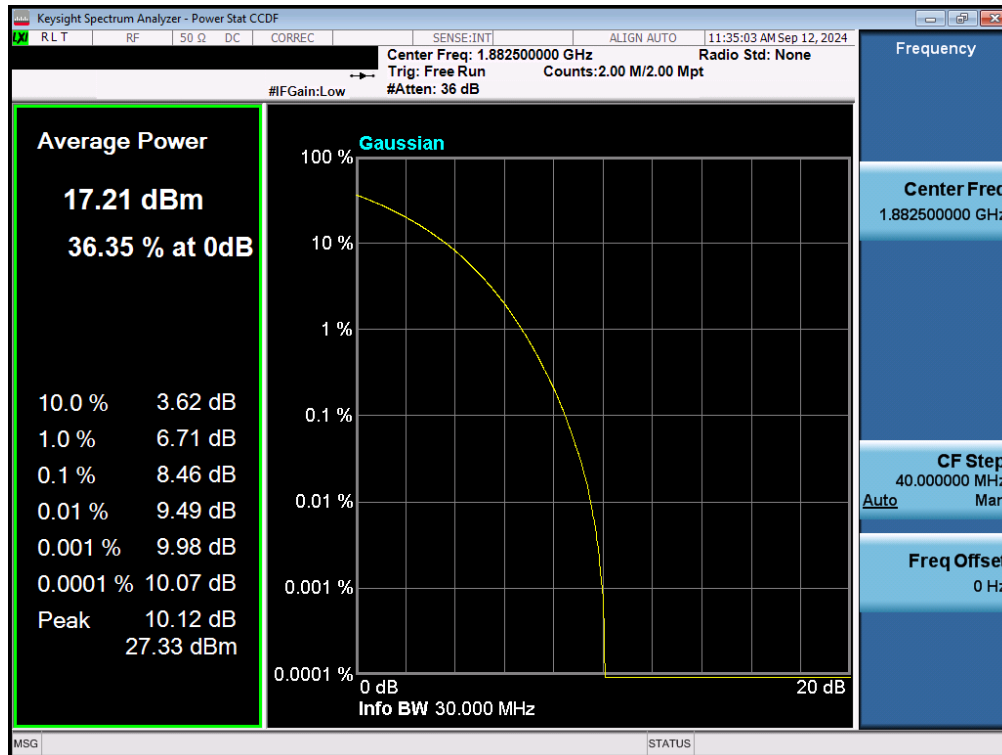


Plot 7-182. PAR Plot (NR Band n25/2 - 30.0MHz DFT-s-OFDM BPSK - Full RB - ANT1)

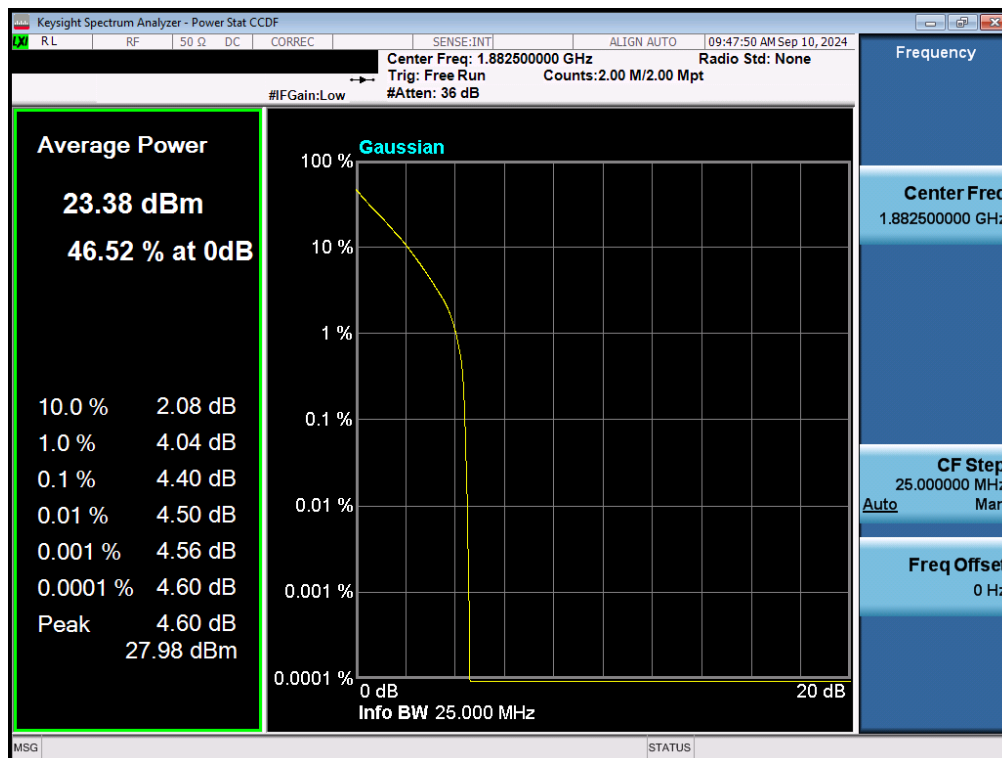


Plot 7-183. PAR Plot (NR Band n25/2 - 30.0MHz CP-OFDM QPSK - Full RB - ANT1)

|                                         |                                      |                               |                                   |
|-----------------------------------------|--------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMS936U                      | PART 24 MEASUREMENT REPORT           |                               | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2408260064-02.A3L | Test Dates:<br>9/4/2024 - 10/10/2024 | EUT Type:<br>Portable Handset | Page 122 of 177                   |

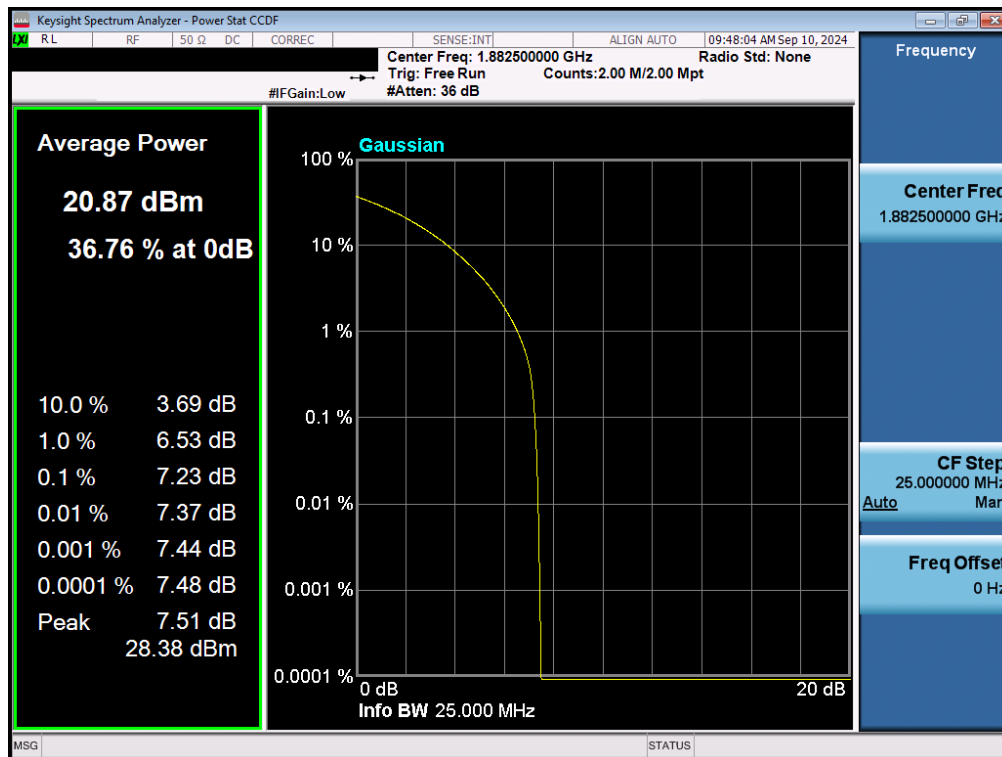


Plot 7-184. PAR Plot (NR Band n25/2 - 30.0MHz CP-OFDM 256-QAM - Full RB - ANT1)

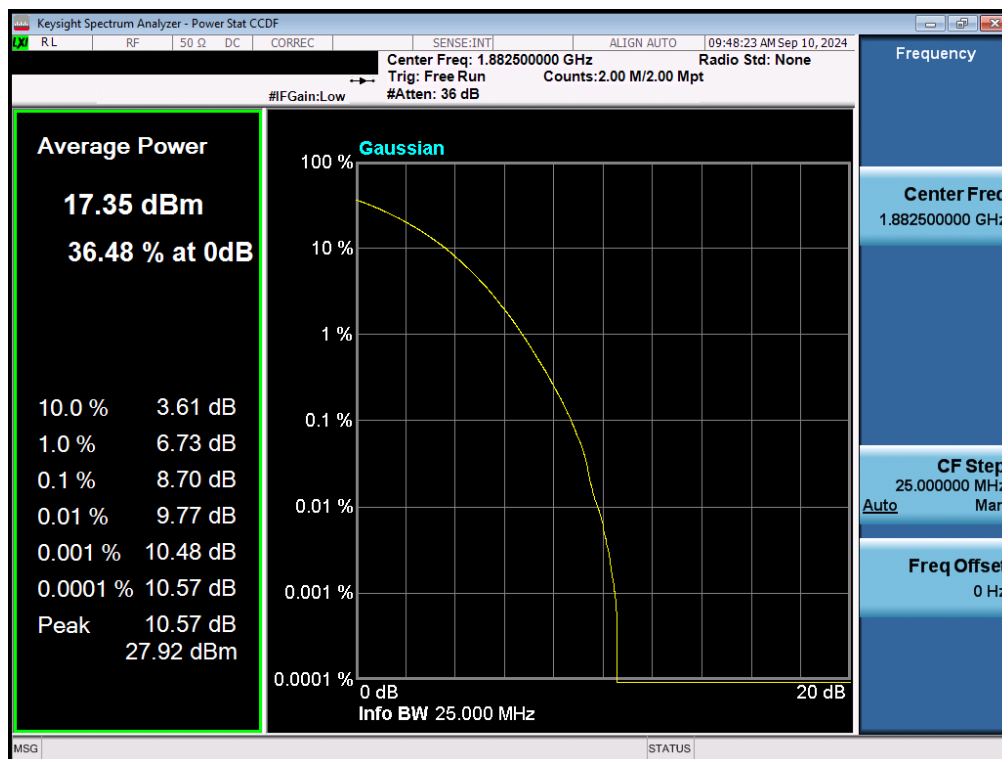


Plot 7-185. PAR Plot (NR Band n25/2 - 25.0MHz DFT-s-OFDM BPSK - Full RB - ANT1)

|                                         |                                      |                               |                                   |
|-----------------------------------------|--------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMS936U                      | PART 24 MEASUREMENT REPORT           |                               | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2408260064-02.A3L | Test Dates:<br>9/4/2024 - 10/10/2024 | EUT Type:<br>Portable Handset | Page 123 of 177                   |

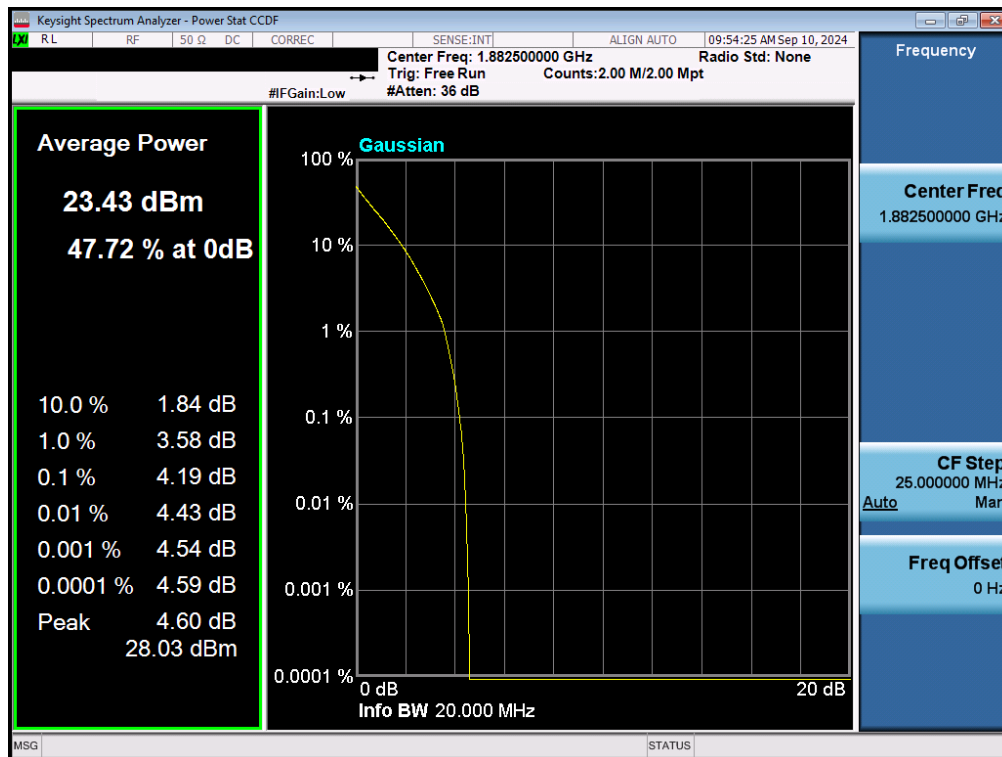


Plot 7-186. PAR Plot (NR Band n25/2 - 25.0MHz CP-OFDM QPSK - Full RB - ANT1)

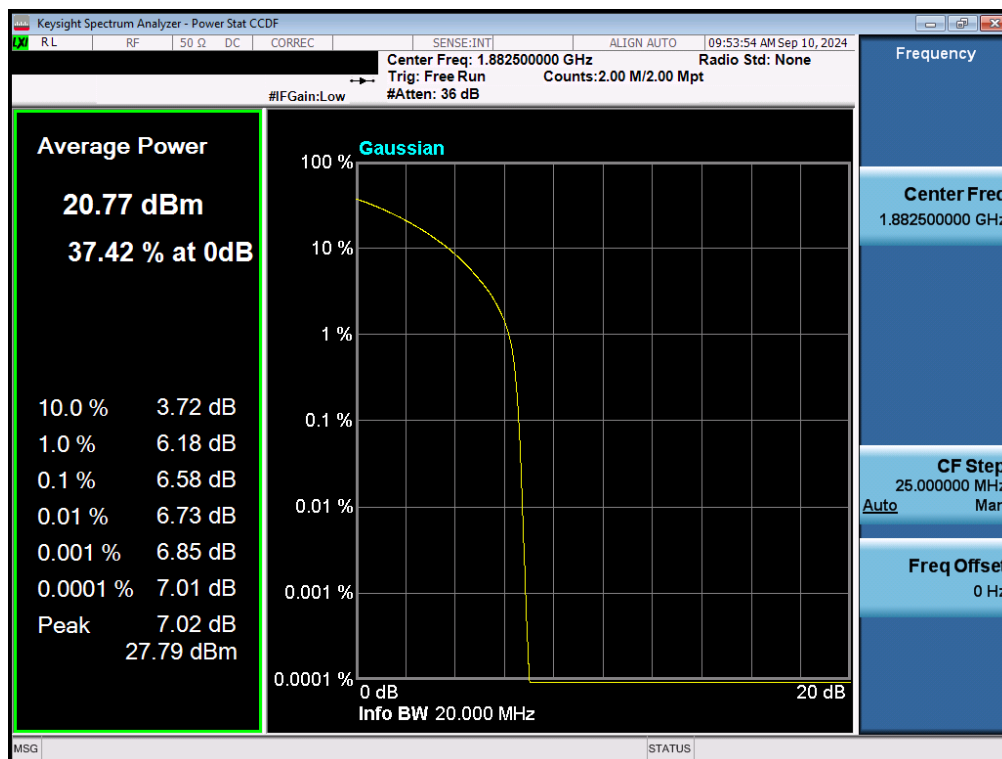


Plot 7-187. PAR Plot (NR Band n25/2 - 25.0MHz CP-OFDM 256-QAM - Full RB - ANT1)

|                                         |                                      |                               |                                   |
|-----------------------------------------|--------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMS936U                      | PART 24 MEASUREMENT REPORT           |                               | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2408260064-02.A3L | Test Dates:<br>9/4/2024 - 10/10/2024 | EUT Type:<br>Portable Handset | Page 124 of 177                   |

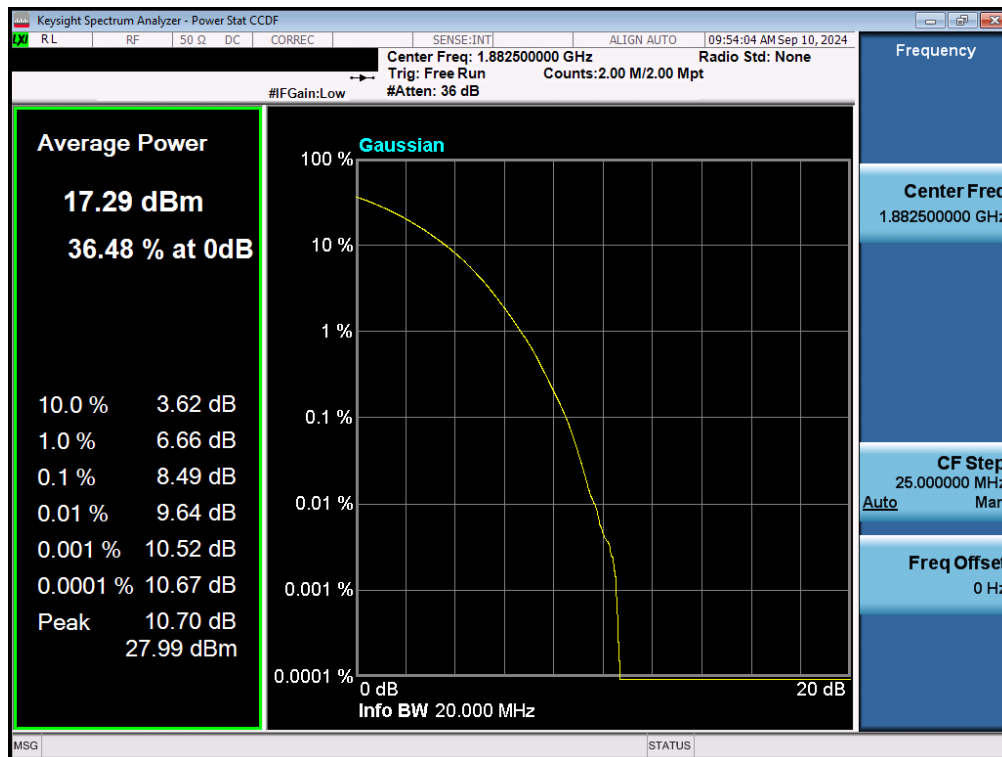


Plot 7-188. PAR Plot (NR Band n25/2 - 20.0MHz DFT-s-OFDM BPSK - Full RB - ANT1)

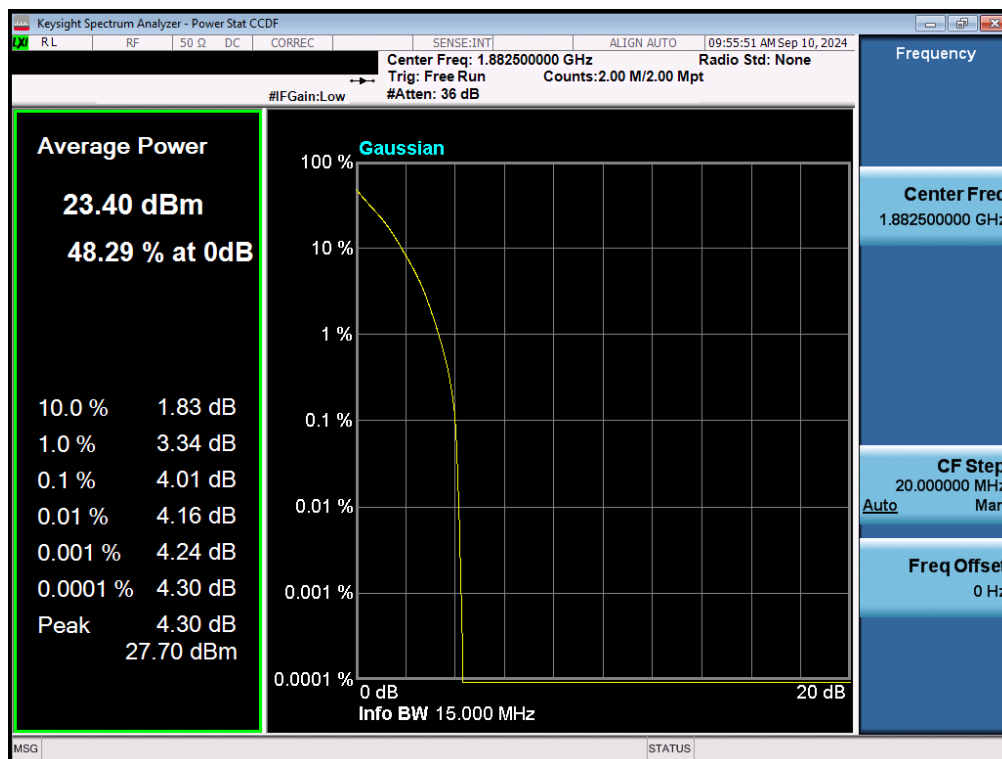


Plot 7-189. PAR Plot (NR Band n25/2 - 20.0MHz CP-OFDM QPSK - Full RB - ANT1)

|                                         |                                      |                               |                                   |
|-----------------------------------------|--------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMS936U                      | PART 24 MEASUREMENT REPORT           |                               | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2408260064-02.A3L | Test Dates:<br>9/4/2024 - 10/10/2024 | EUT Type:<br>Portable Handset | Page 125 of 177                   |

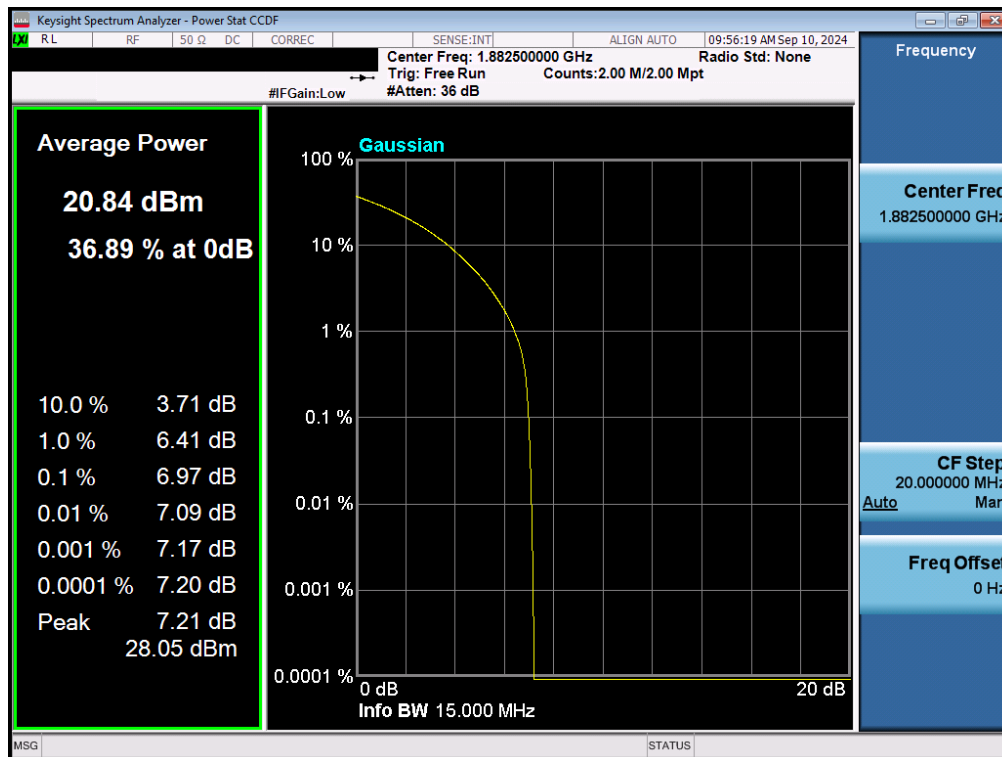


Plot 7-190. PAR Plot (NR Band n25/2 - 20.0MHz CP-OFDM 256-QAM - Full RB - ANT1)

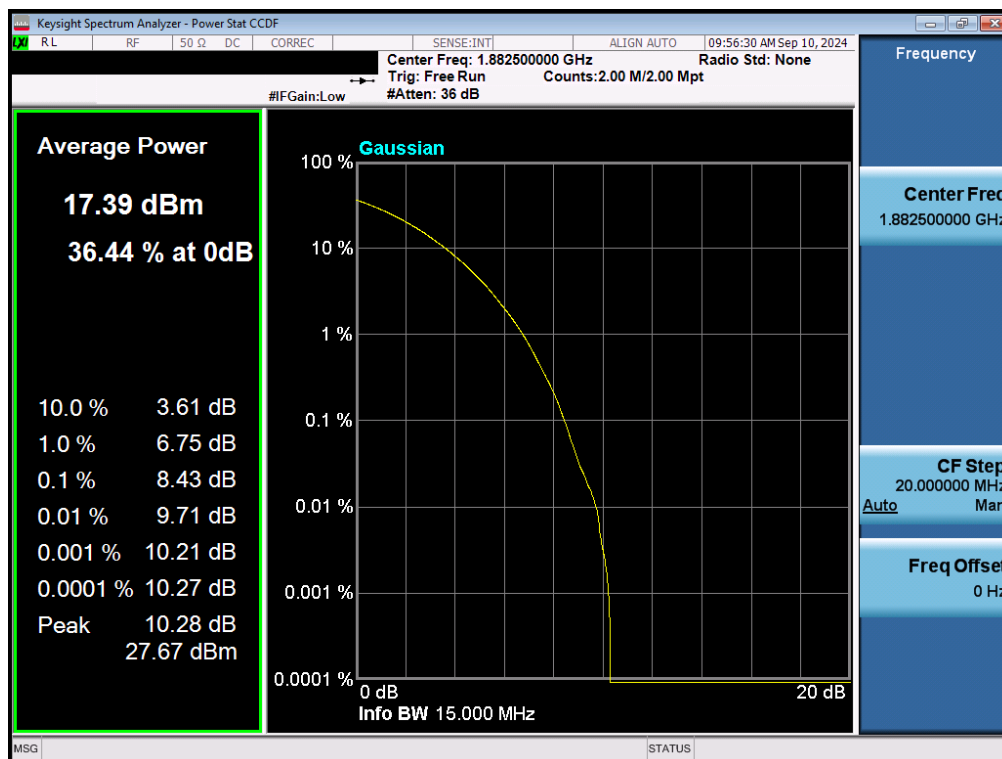


Plot 7-191. PAR Plot (NR Band n25/2 - 15.0MHz DFT-s-OFDM BPSK - Full RB - ANT1)

|                                         |                                      |                               |                                   |
|-----------------------------------------|--------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMS936U                      | PART 24 MEASUREMENT REPORT           |                               | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2408260064-02.A3L | Test Dates:<br>9/4/2024 - 10/10/2024 | EUT Type:<br>Portable Handset | Page 126 of 177                   |

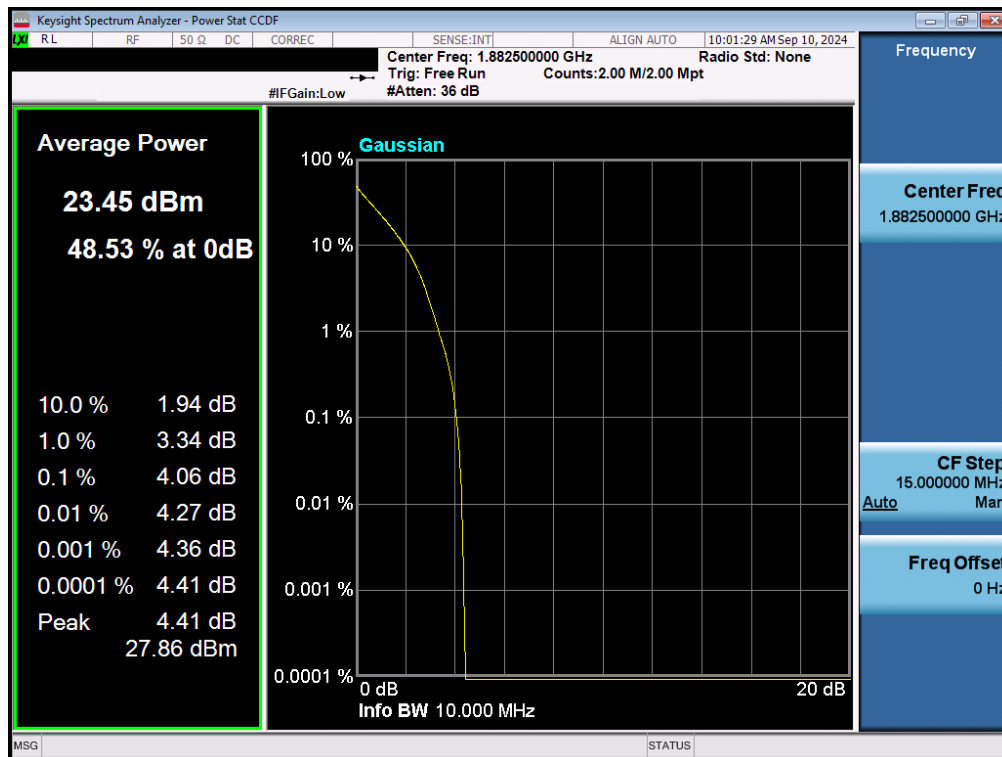


Plot 7-192. PAR Plot (NR Band n25/2 - 15.0MHz CP-OFDM QPSK - Full RB - ANT1)

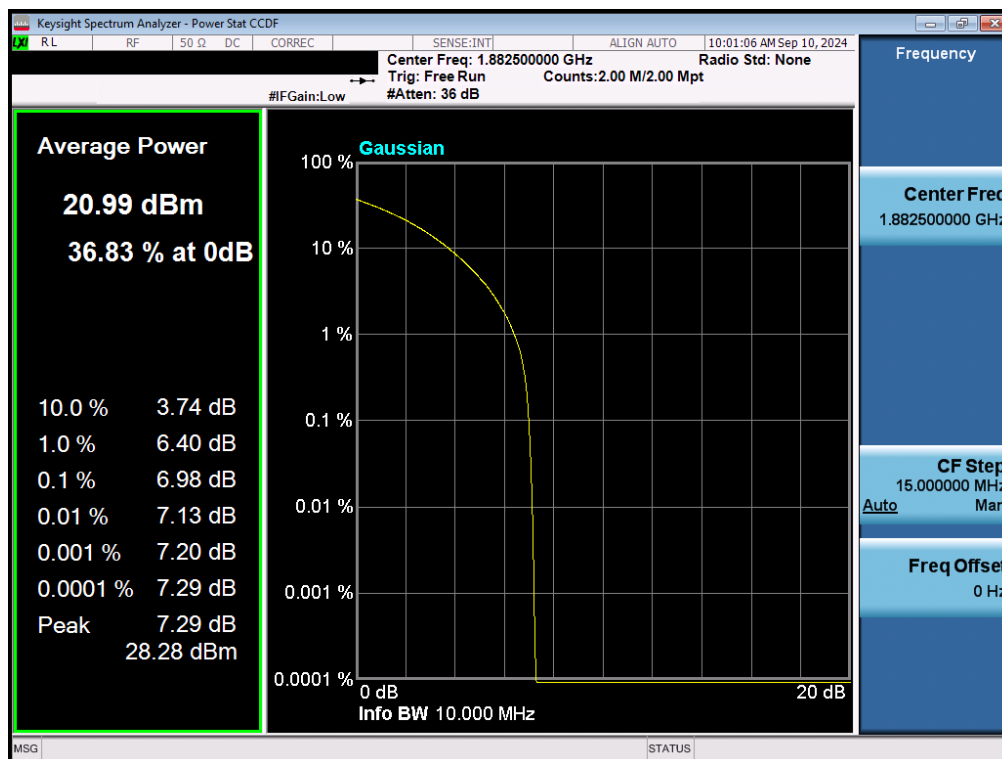


Plot 7-193. PAR Plot (NR Band n25/2 - 15.0MHz CP-OFDM 256-QAM - Full RB - ANT1)

|                                         |                                      |                               |                                   |
|-----------------------------------------|--------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMS936U                      | PART 24 MEASUREMENT REPORT           |                               | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2408260064-02.A3L | Test Dates:<br>9/4/2024 - 10/10/2024 | EUT Type:<br>Portable Handset | Page 127 of 177                   |

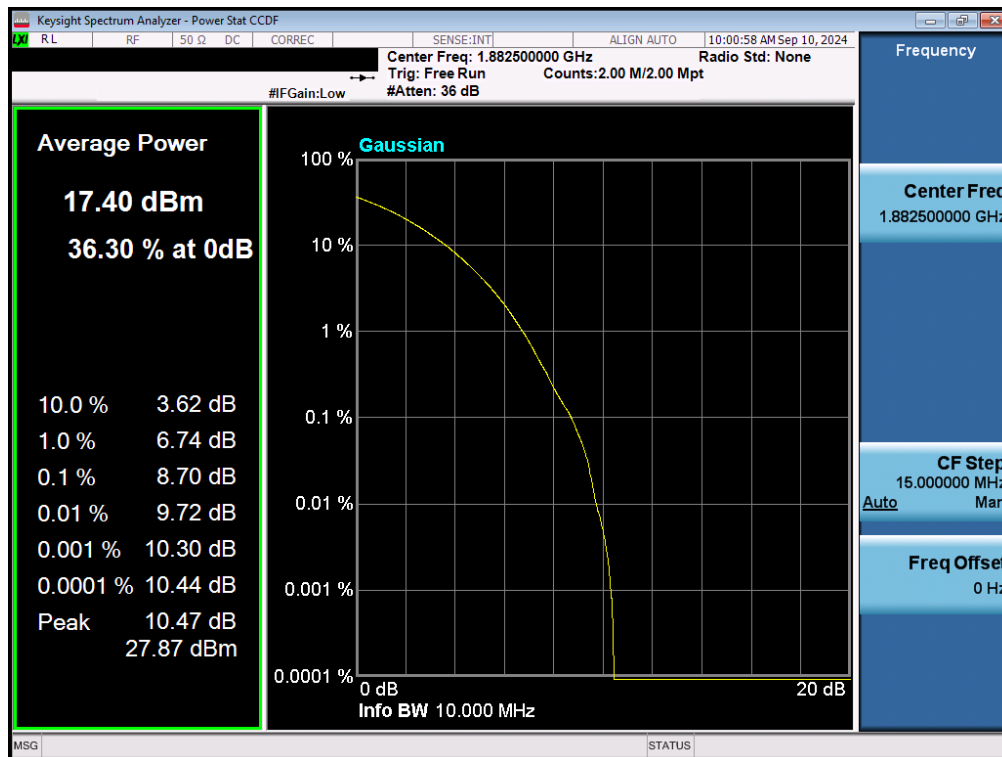


Plot 7-194. PAR Plot (NR Band n25/2 - 10.0MHz DFT-s-OFDM BPSK - Full RB - ANT1)

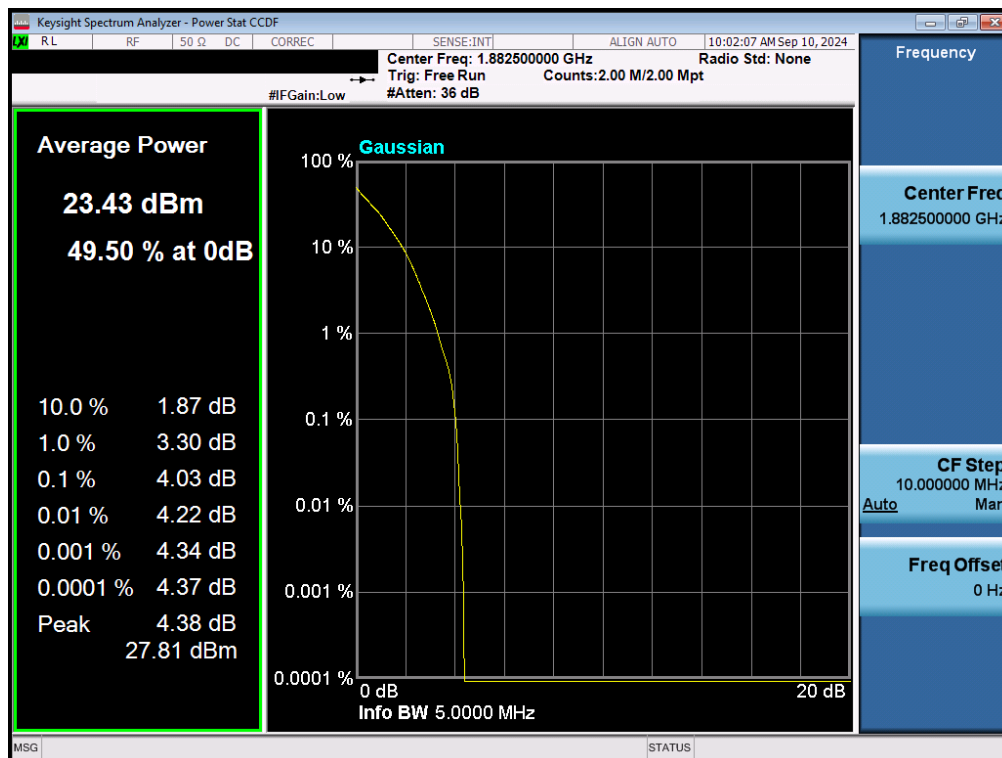


Plot 7-195. PAR Plot (NR Band n25/2 - 10.0MHz CP-OFDM QPSK - Full RB - ANT1)

|                                         |                                      |                               |                                   |
|-----------------------------------------|--------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMS936U                      | PART 24 MEASUREMENT REPORT           |                               | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2408260064-02.A3L | Test Dates:<br>9/4/2024 - 10/10/2024 | EUT Type:<br>Portable Handset | Page 128 of 177                   |

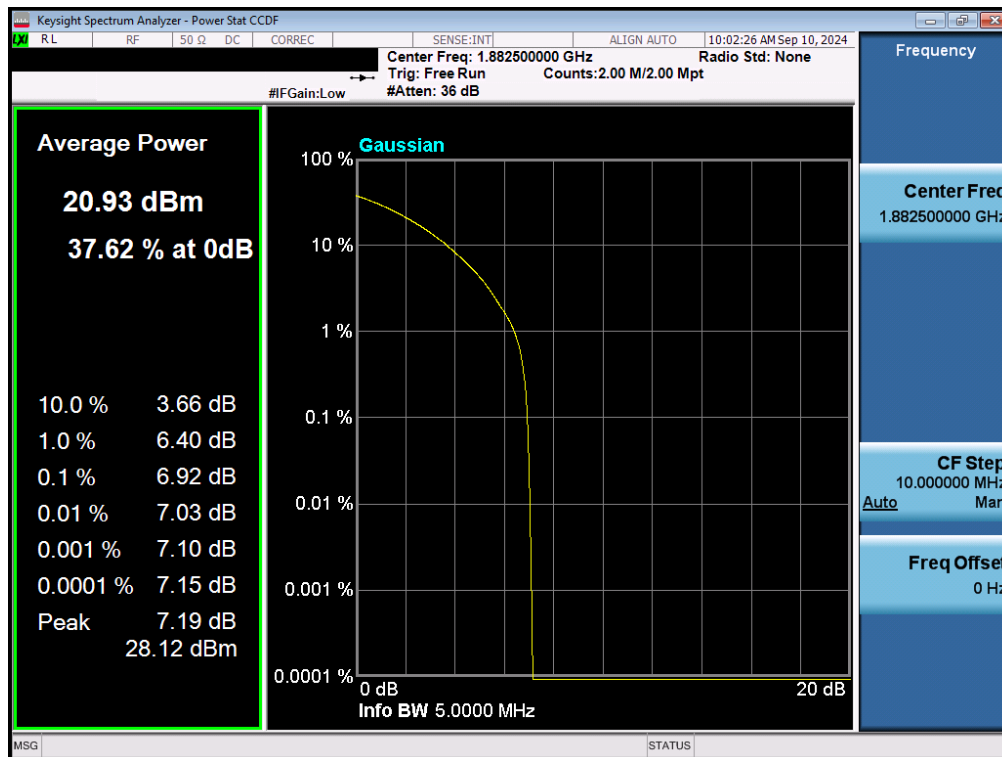


Plot 7-196. PAR Plot (NR Band n25/2 - 10.0MHz CP-OFDM 256-QAM - Full RB - ANT1)

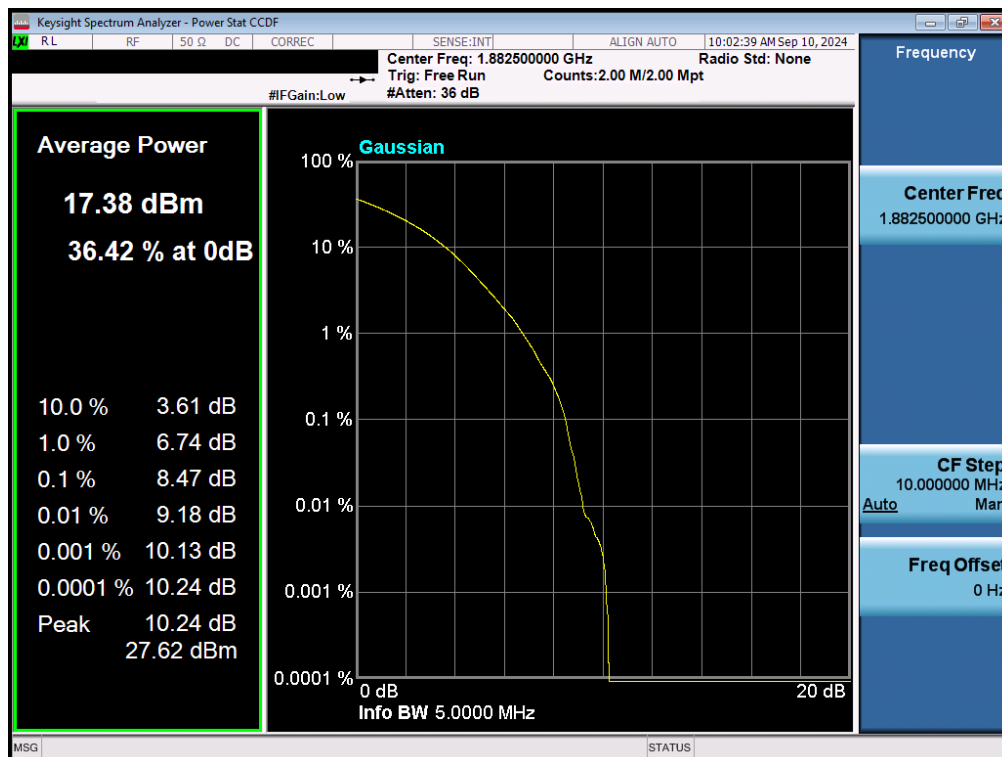


Plot 7-197. PAR Plot (NR Band n25/2 - 5.0MHz DFT-s-OFDM BPSK - Full RB - ANT1)

|                                         |                                      |                               |                                   |
|-----------------------------------------|--------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMS936U                      | PART 24 MEASUREMENT REPORT           |                               | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2408260064-02.A3L | Test Dates:<br>9/4/2024 - 10/10/2024 | EUT Type:<br>Portable Handset | Page 129 of 177                   |



Plot 7-198. PAR Plot (NR Band n25/2 - 5.0MHz CP-OFDM QPSK - Full RB - ANT1)



Plot 7-199. PAR Plot (NR Band n25/2 - 5.0MHz CP-OFDM 256-QAM - Full RB - ANT1)

|                                         |                                      |                               |                                   |
|-----------------------------------------|--------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMS936U                      | PART 24 MEASUREMENT REPORT           |                               | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2408260064-02.A3L | Test Dates:<br>9/4/2024 - 10/10/2024 | EUT Type:<br>Portable Handset | Page 130 of 177                   |

| Mode      | Bandwidth | Modulation | Average Power [dBm] | PAR at 0.1% [dB] | PAR Limit [dB] | Margin [dB] |
|-----------|-----------|------------|---------------------|------------------|----------------|-------------|
| LTE-B25-2 | 20MHz     | QPSK       | 23.27               | 4.46             | 13             | -8.54       |
|           |           | 256QAM     | 19.32               | 6.49             | 13             | -6.51       |
|           | 15MHz     | QPSK       | 23.27               | 4.47             | 13             | -8.53       |
|           |           | 256QAM     | 19.32               | 6.50             | 13             | -6.50       |
|           | 10MHz     | QPSK       | 23.35               | 4.50             | 13             | -8.50       |
|           |           | 256QAM     | 19.37               | 6.48             | 13             | -6.52       |
|           | 5MHz      | QPSK       | 23.34               | 4.45             | 13             | -8.55       |
|           |           | 256QAM     | 19.41               | 6.52             | 13             | -6.48       |
|           | 3MHz      | QPSK       | 23.36               | 4.38             | 13             | -8.62       |
|           |           | 256QAM     | 19.46               | 6.54             | 13             | -6.46       |
|           | 1.4MHz    | QPSK       | 23.29               | 4.39             | 13             | -8.61       |
|           |           | 256QAM     | 19.44               | 6.52             | 13             | -6.48       |

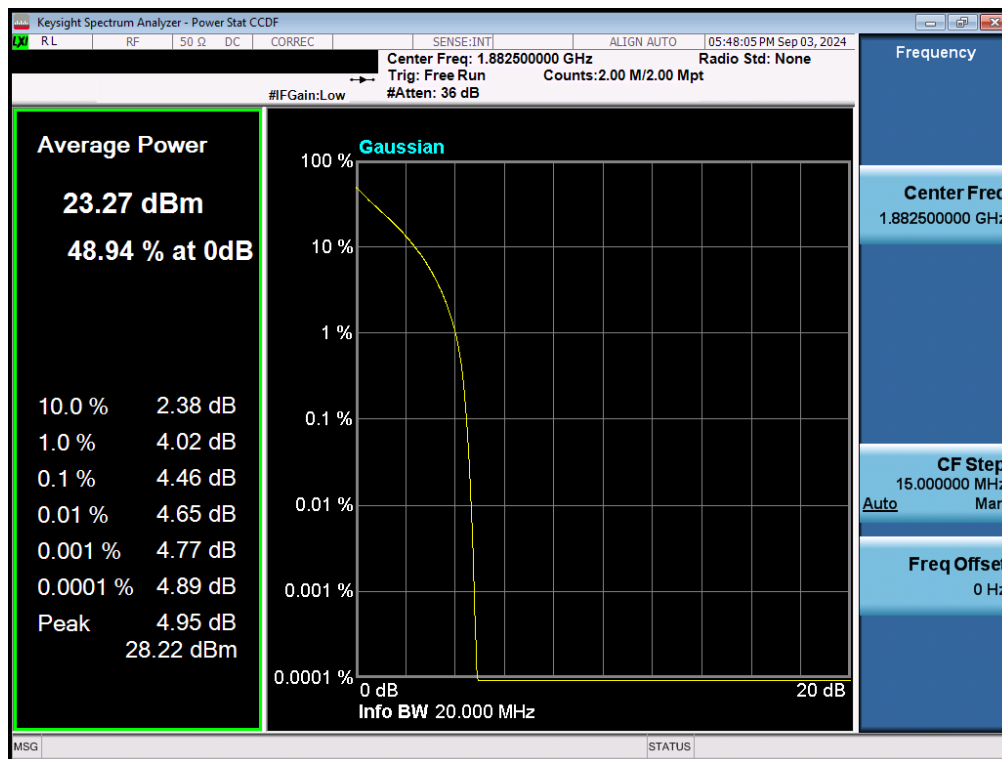
**Table 7-14. PAR Test Results – Ant2**

| Mode     | Bandwidth | Modulation | Average Power [dBm] | PAR at 0.1% [dB] | PAR Limit [dB] | Margin [dB] |
|----------|-----------|------------|---------------------|------------------|----------------|-------------|
| NR-n25-2 | 40MHz     | BPSK       | 23.32               | 4.17             | 13             | -8.83       |
|          |           | QPSK       | 20.84               | 6.74             | 13             | -6.26       |
|          |           | 256QAM     | 17.26               | 8.40             | 13             | -4.60       |
|          | 35MHz     | BPSK       | 23.24               | 3.74             | 13             | -9.26       |
|          |           | QPSK       | 20.72               | 6.97             | 13             | -6.03       |
|          |           | 256QAM     | 17.28               | 8.44             | 13             | -4.56       |
|          | 30MHz     | BPSK       | 23.30               | 4.00             | 13             | -9.00       |
|          |           | QPSK       | 20.72               | 6.87             | 13             | -6.13       |
|          |           | 256QAM     | 17.26               | 8.44             | 13             | -4.56       |
|          | 25MHz     | BPSK       | 23.45               | 4.21             | 13             | -8.79       |
|          |           | QPSK       | 21.06               | 7.18             | 13             | -5.82       |
|          |           | 256QAM     | 17.46               | 8.73             | 13             | -4.27       |
|          | 20MHz     | BPSK       | 23.52               | 3.91             | 13             | -9.09       |
|          |           | QPSK       | 21.01               | 7.10             | 13             | -5.90       |
|          |           | 256QAM     | 17.40               | 8.56             | 13             | -4.44       |
|          | 15MHz     | BPSK       | 23.47               | 3.97             | 13             | -9.03       |
|          |           | QPSK       | 21.03               | 7.03             | 13             | -5.97       |
|          |           | 256QAM     | 17.48               | 8.51             | 13             | -4.49       |
|          | 10MHz     | BPSK       | 23.38               | 3.90             | 13             | -9.10       |
|          |           | QPSK       | 21.01               | 7.04             | 13             | -5.96       |
|          |           | 256QAM     | 17.39               | 8.77             | 13             | -4.23       |
|          | 5MHz      | BPSK       | 23.58               | 3.89             | 13             | -9.11       |
|          |           | QPSK       | 21.16               | 6.98             | 13             | -6.02       |
|          |           | 256QAM     | 17.49               | 8.59             | 13             | -4.41       |

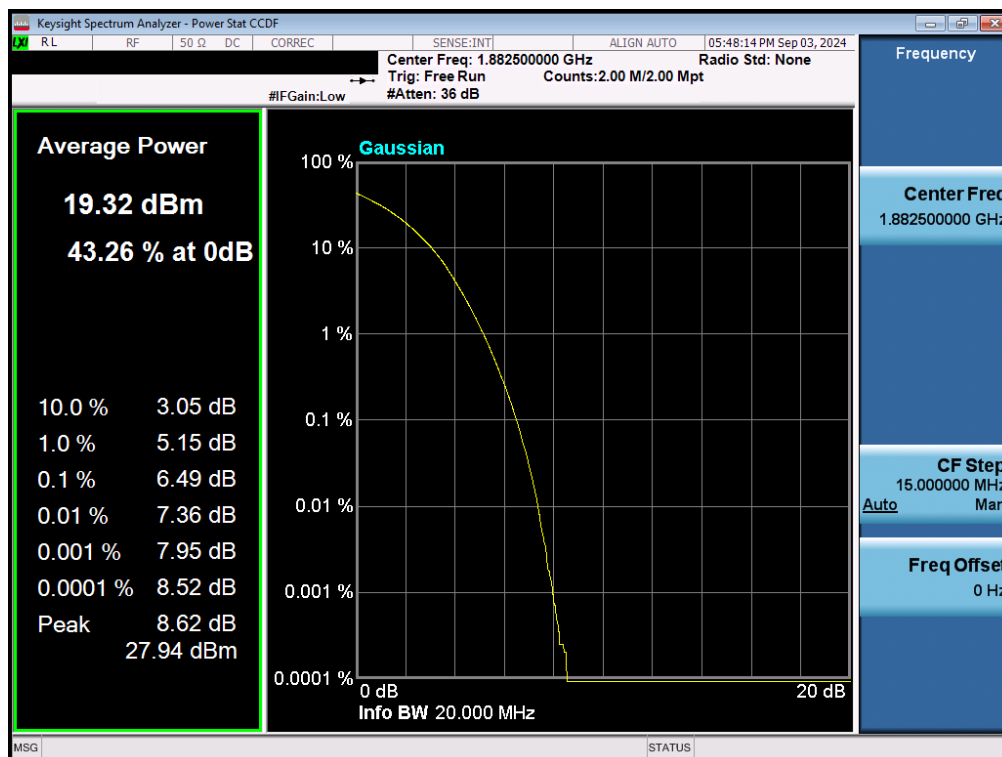
**Table 7-15. PAR Test Results – Ant2**

|                                         |                                      |                               |                                   |
|-----------------------------------------|--------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMS936U                      | PART 24 MEASUREMENT REPORT           |                               | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2408260064-02.A3L | Test Dates:<br>9/4/2024 - 10/10/2024 | EUT Type:<br>Portable Handset | Page 131 of 177                   |

## LTE Band 25/2 – Ant2

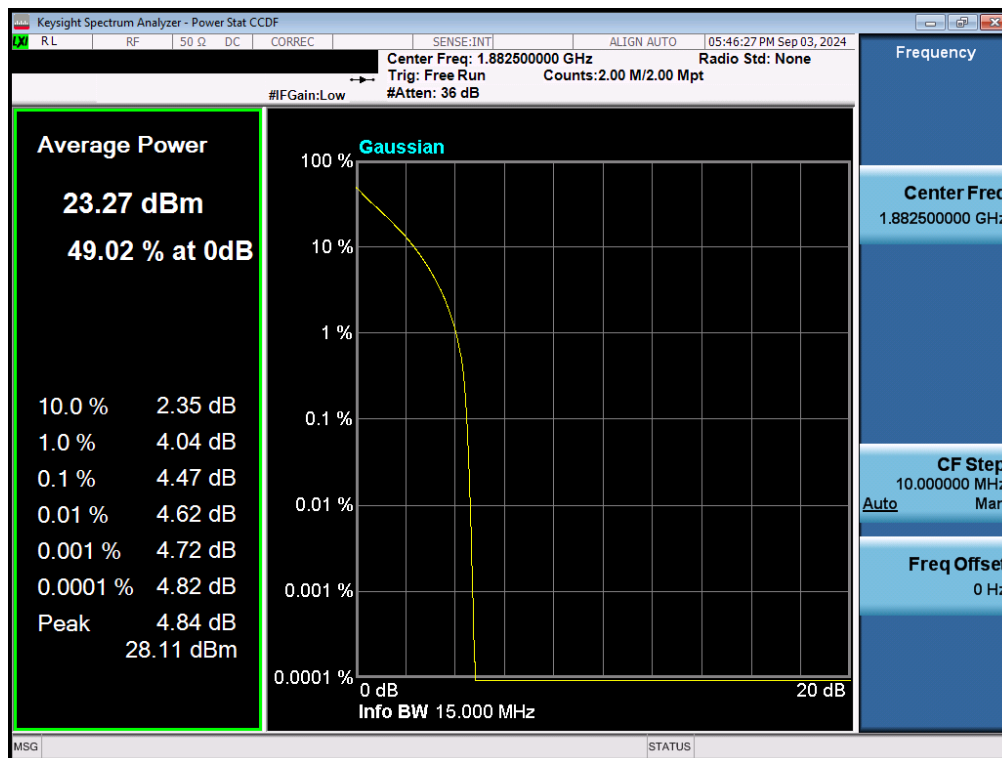


Plot 7-200. PAR Plot (LTE Band 25/2 - 20MHz QPSK - Full RB - Ant2)

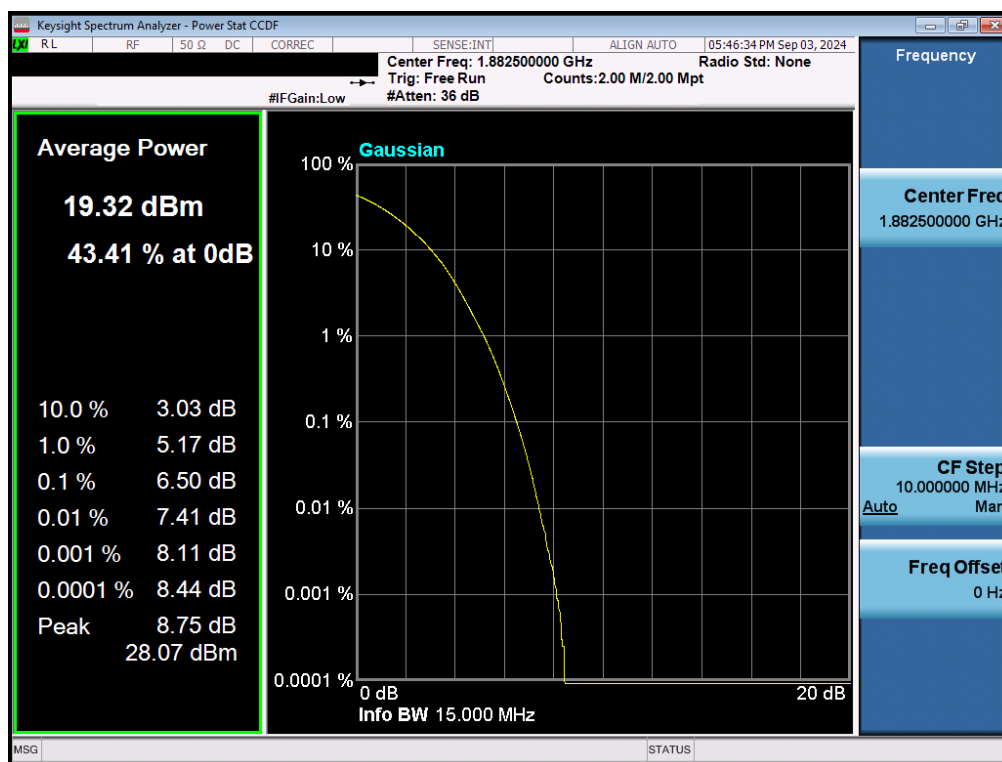


Plot 7-201. PAR Plot (LTE Band 25/2 - 20MHz 256-QAM - Full RB - Ant2)

|                                         |                                      |                               |                                   |
|-----------------------------------------|--------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMS936U                      | PART 24 MEASUREMENT REPORT           |                               | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2408260064-02.A3L | Test Dates:<br>9/4/2024 - 10/10/2024 | EUT Type:<br>Portable Handset | Page 132 of 177                   |

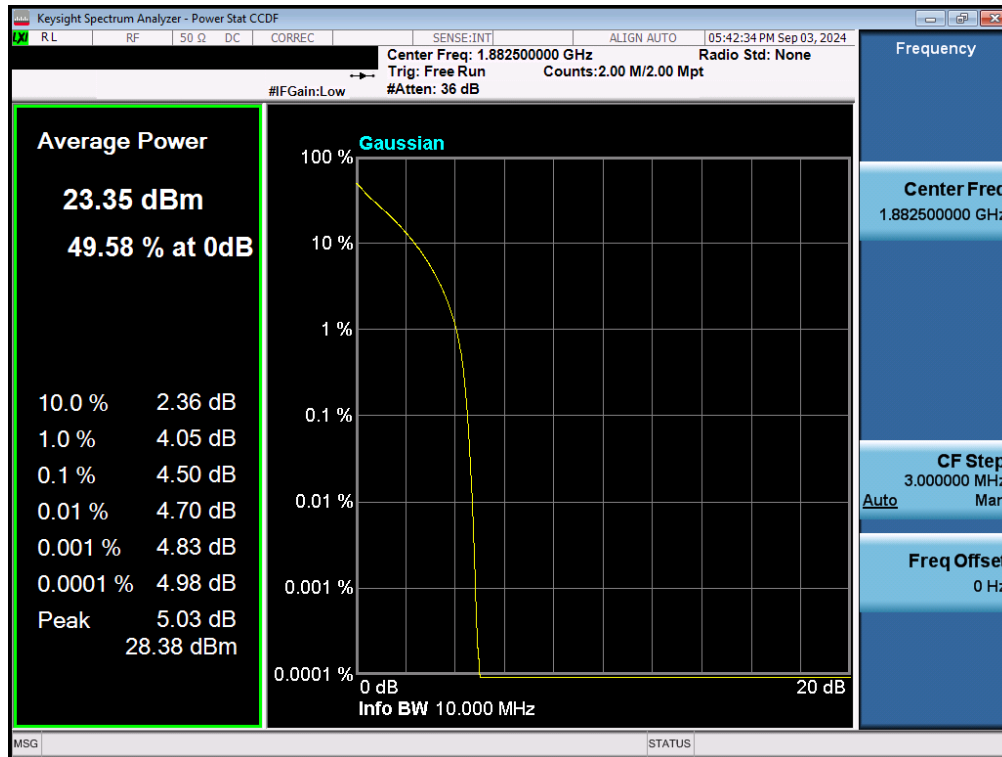


Plot 7-202. PAR Plot (LTE Band 25/2 - 15MHz QPSK - Full RB - Ant2)

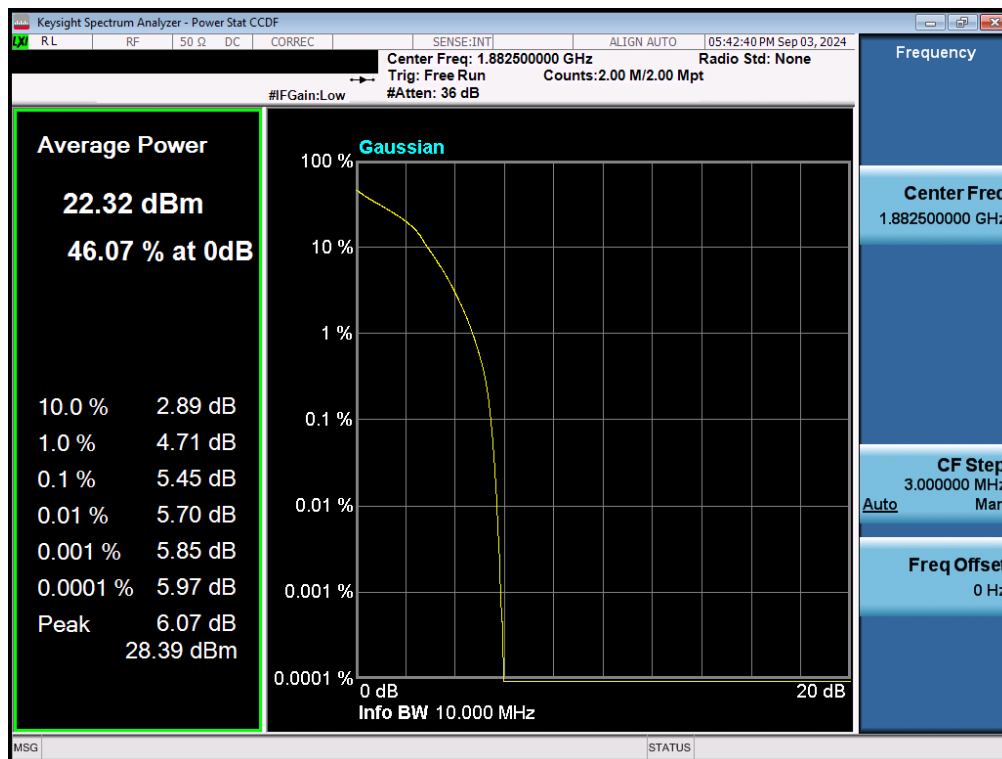


Plot 7-203. PAR Plot (LTE Band 25/2 - 15MHz 256-QAM - Full RB - Ant2)

|                                         |                                      |                               |                                   |
|-----------------------------------------|--------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMS936U                      | PART 24 MEASUREMENT REPORT           |                               | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2408260064-02.A3L | Test Dates:<br>9/4/2024 - 10/10/2024 | EUT Type:<br>Portable Handset | Page 133 of 177                   |

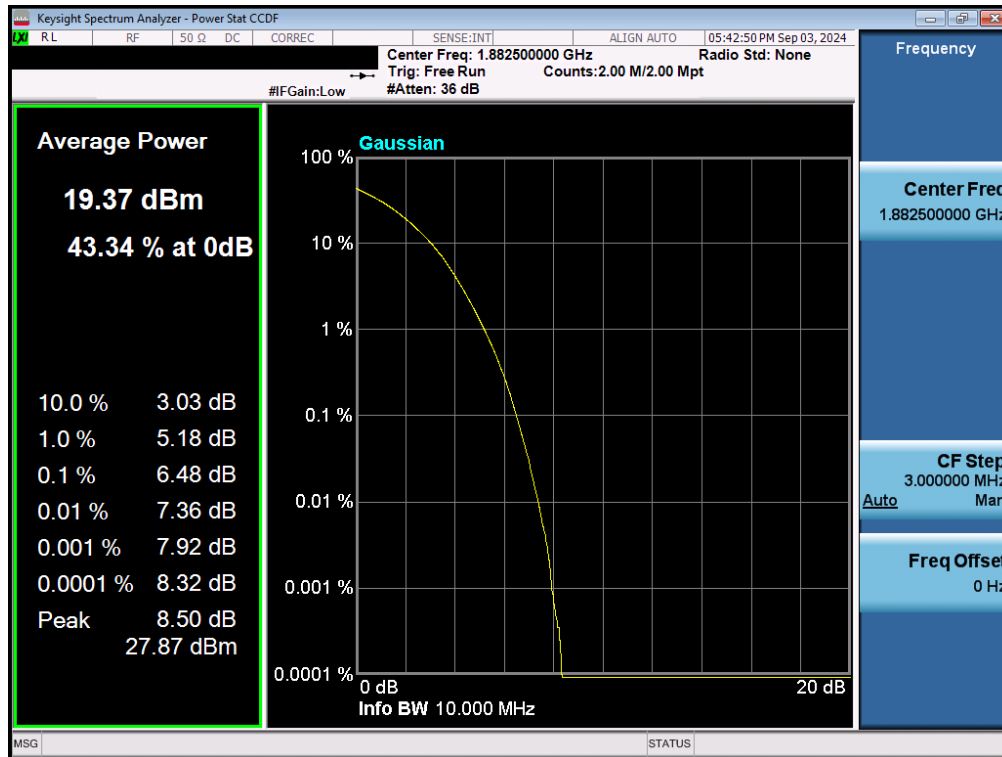


Plot 7-204. PAR Plot (LTE Band 25/2 - 10MHz QPSK - Full RB - Ant2)

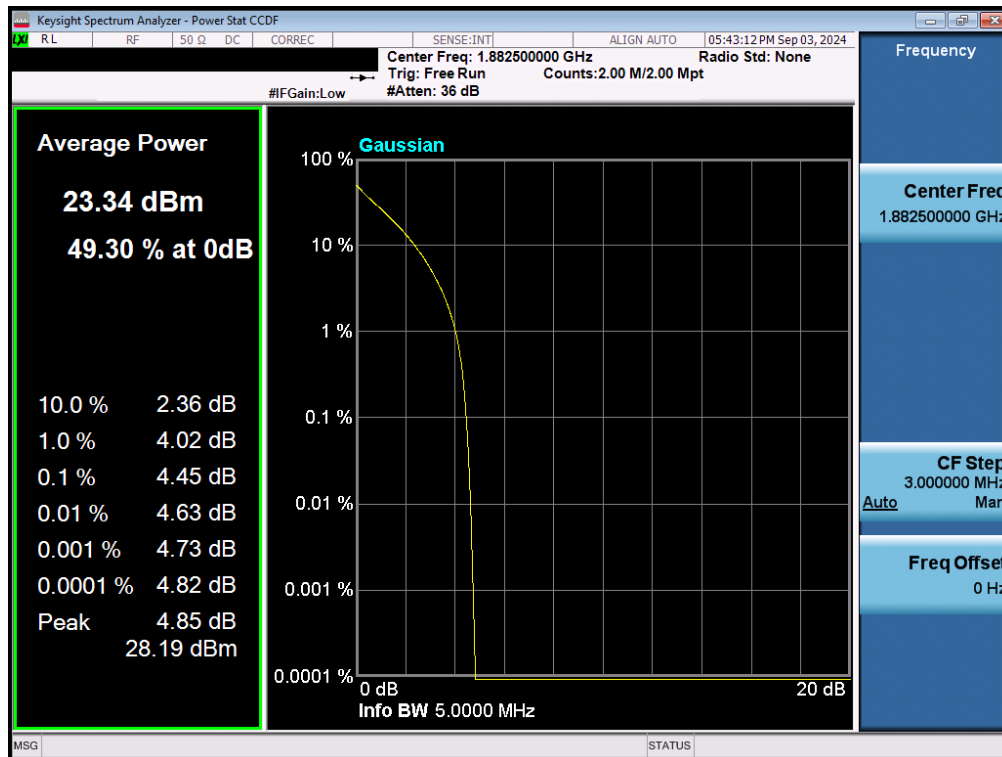


Plot 7-205. PAR Plot (LTE Band 25/2 - 10MHz 16-QAM - Full RB - Ant2)

|                                         |                                      |                               |                                   |
|-----------------------------------------|--------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMS936U                      | PART 24 MEASUREMENT REPORT           |                               | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2408260064-02.A3L | Test Dates:<br>9/4/2024 - 10/10/2024 | EUT Type:<br>Portable Handset | Page 134 of 177                   |

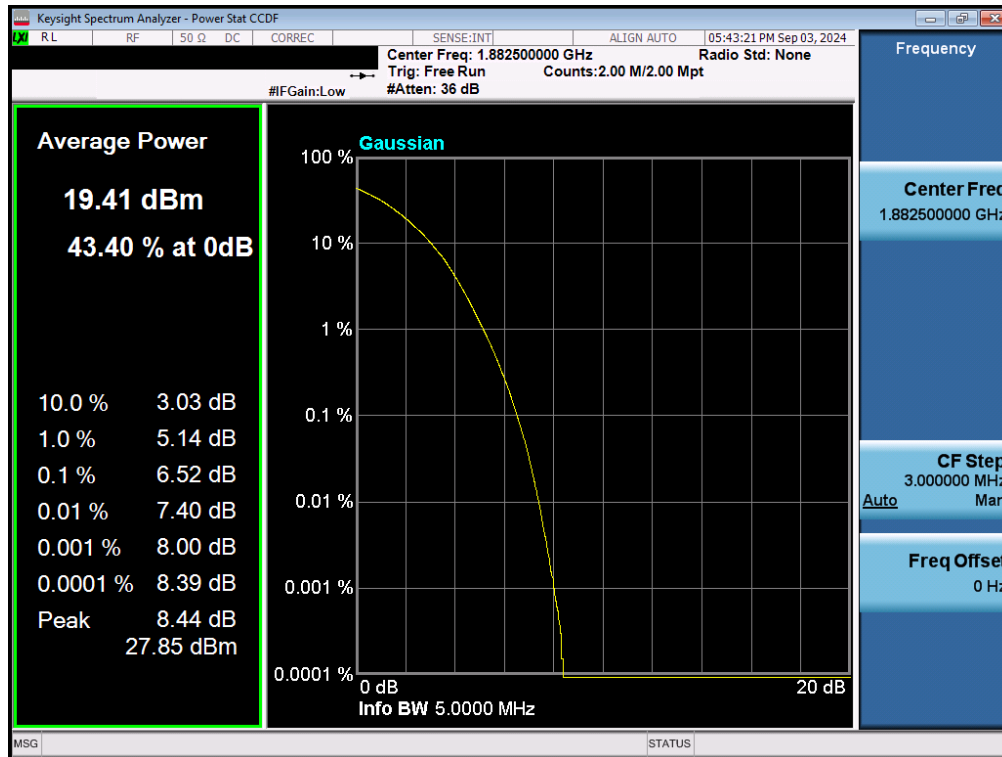


Plot 7-206. PAR Plot (LTE Band 25/2 - 10MHz 256-QAM - Full RB - Ant2)

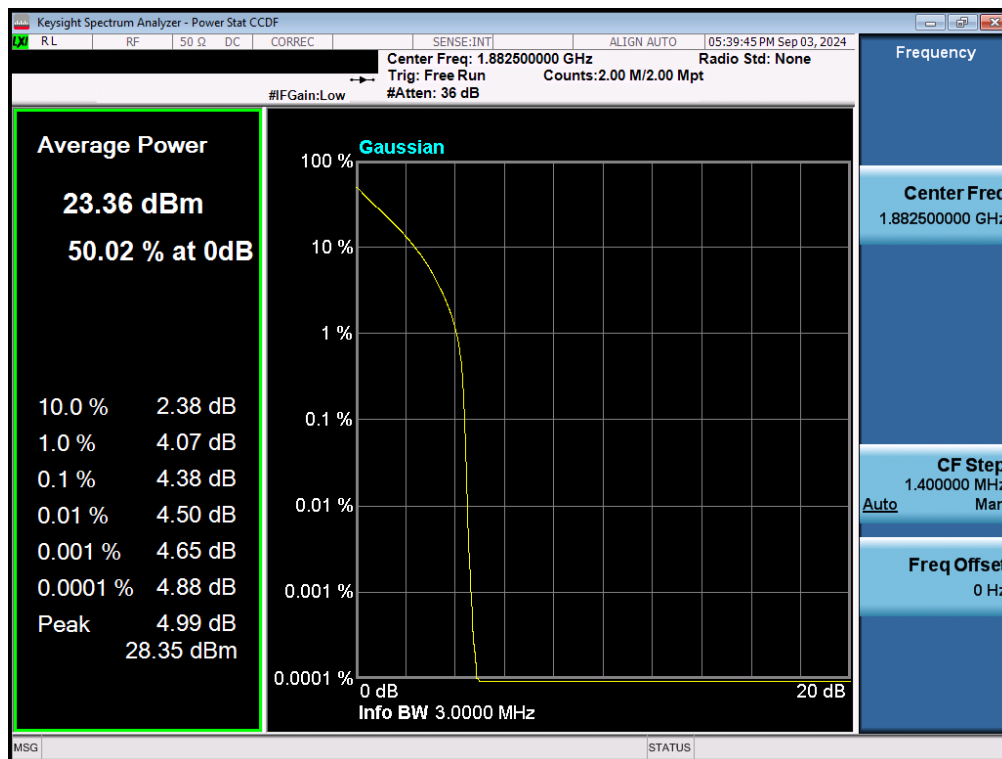


Plot 7-207. PAR Plot (LTE Band 25/2 - 5MHz QPSK - Full RB - Ant2)

|                                         |                                      |                               |                                   |
|-----------------------------------------|--------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMS936U                      | PART 24 MEASUREMENT REPORT           |                               | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2408260064-02.A3L | Test Dates:<br>9/4/2024 - 10/10/2024 | EUT Type:<br>Portable Handset | Page 135 of 177                   |

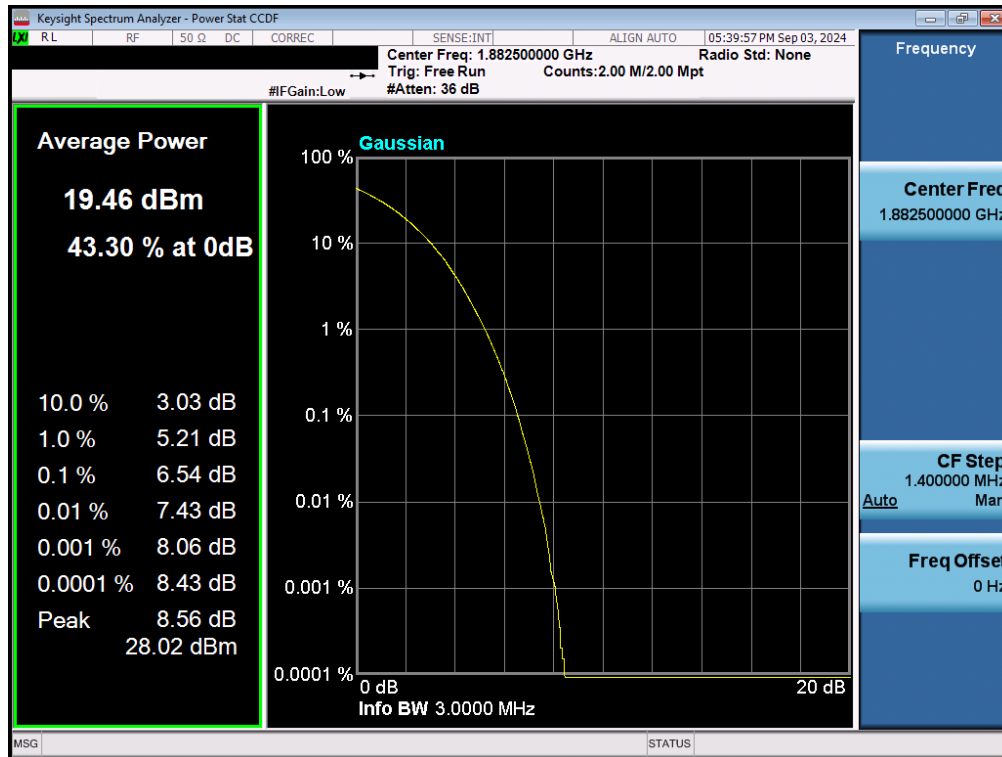


Plot 7-208. PAR Plot (LTE Band 25/2 - 5MHz 256-QAM - Full RB - Ant2)

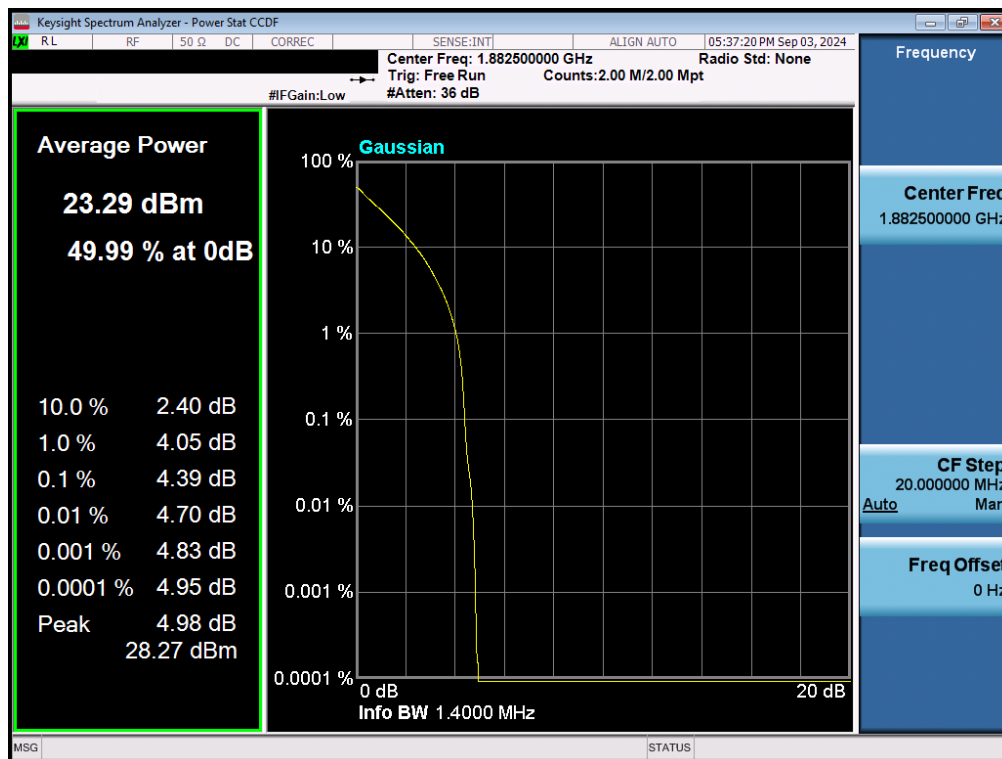


Plot 7-209. PAR Plot (LTE Band 25/2 - 3MHz QPSK - Full RB - Ant2)

|                                         |                                      |                               |                                   |
|-----------------------------------------|--------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMS936U                      | PART 24 MEASUREMENT REPORT           |                               | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2408260064-02.A3L | Test Dates:<br>9/4/2024 - 10/10/2024 | EUT Type:<br>Portable Handset | Page 136 of 177                   |

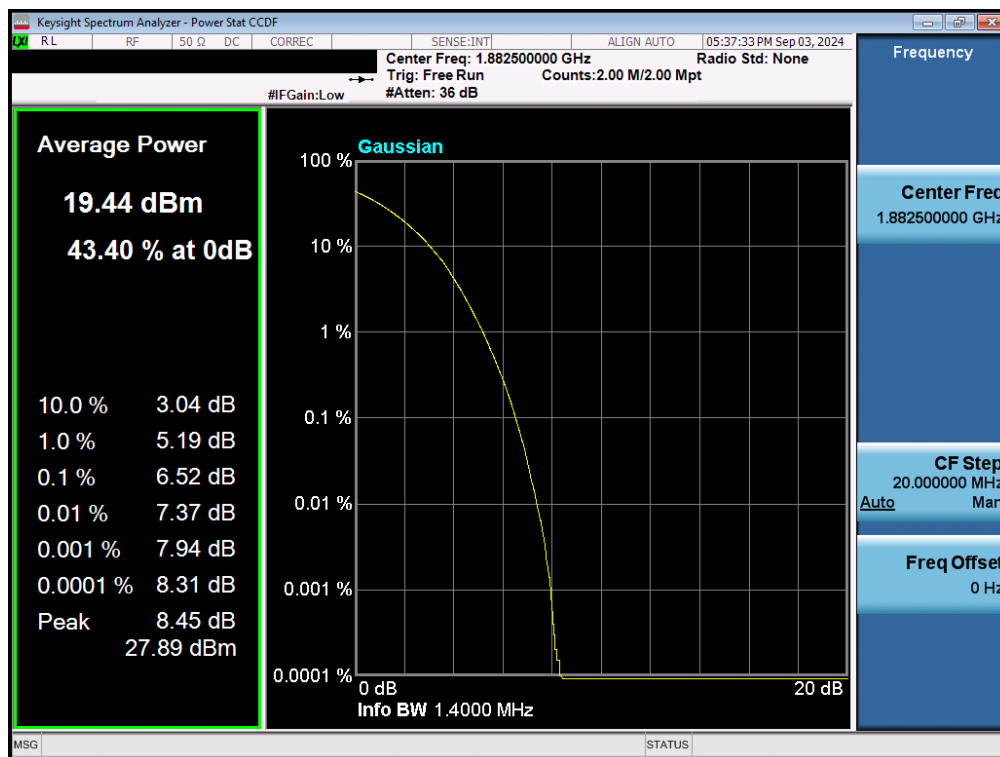


Plot 7-210. PAR Plot (LTE Band 25/2 - 3MHz 256-QAM - Full RB - Ant2)



Plot 7-211. PAR Plot (LTE Band 25/2 - 1.4MHz QPSK - Full RB - Ant2)

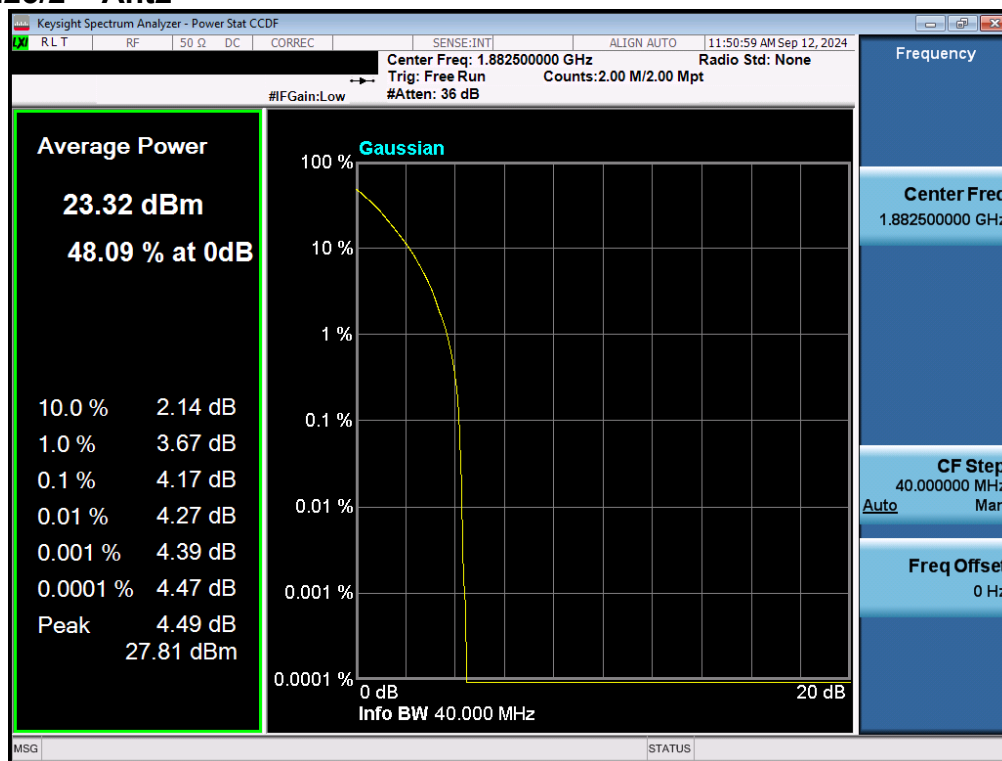
|                                         |                                      |                               |                                   |
|-----------------------------------------|--------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMS936U                      | PART 24 MEASUREMENT REPORT           |                               | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2408260064-02.A3L | Test Dates:<br>9/4/2024 - 10/10/2024 | EUT Type:<br>Portable Handset | Page 137 of 177                   |



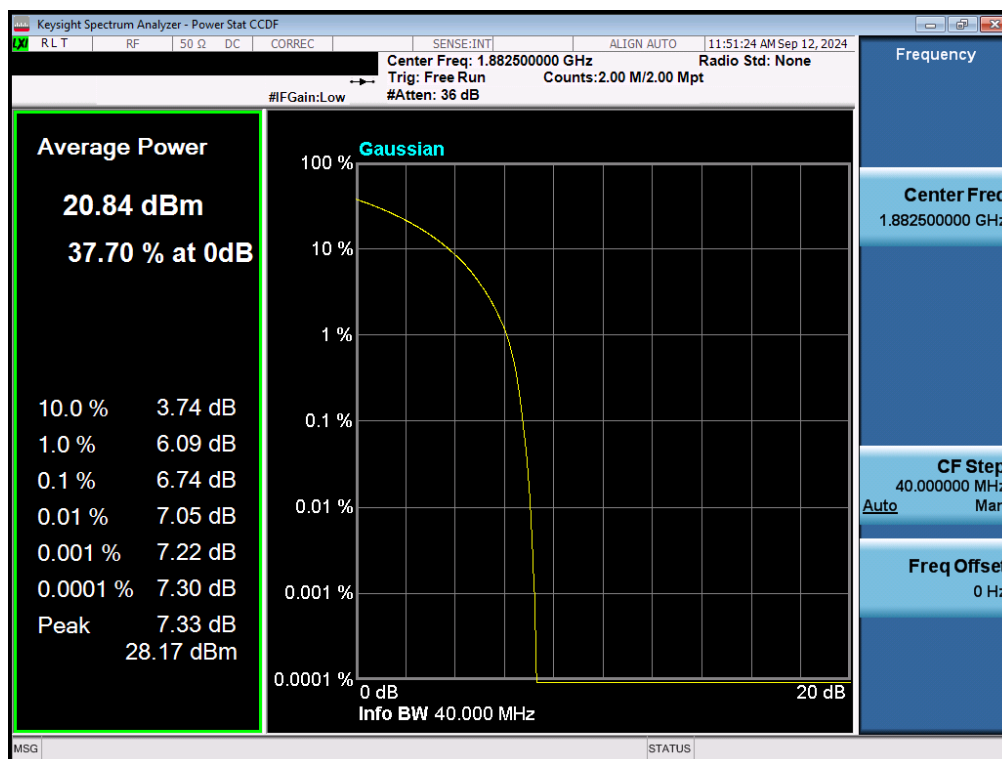
Plot 7-212. PAR Plot (LTE Band 25/2 - 1.4MHz 256-QAM - Full RB - Ant2)

|                                         |                                      |                               |                                   |
|-----------------------------------------|--------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMS936U                      | PART 24 MEASUREMENT REPORT           |                               | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2408260064-02.A3L | Test Dates:<br>9/4/2024 - 10/10/2024 | EUT Type:<br>Portable Handset | Page 138 of 177                   |

## NR Band n25/2 – Ant2

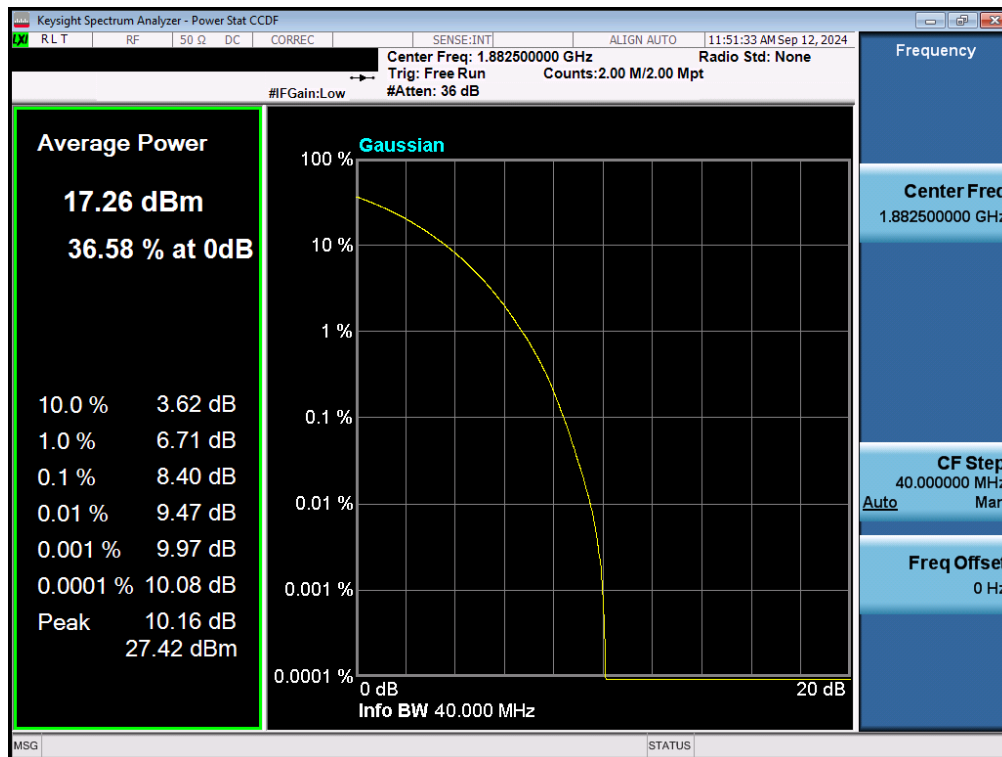


Plot 7-213. PAR Plot (NR Band n25/2 - 40.0MHz DFT-s-OFDM BPSK - Full RB - ANT2)

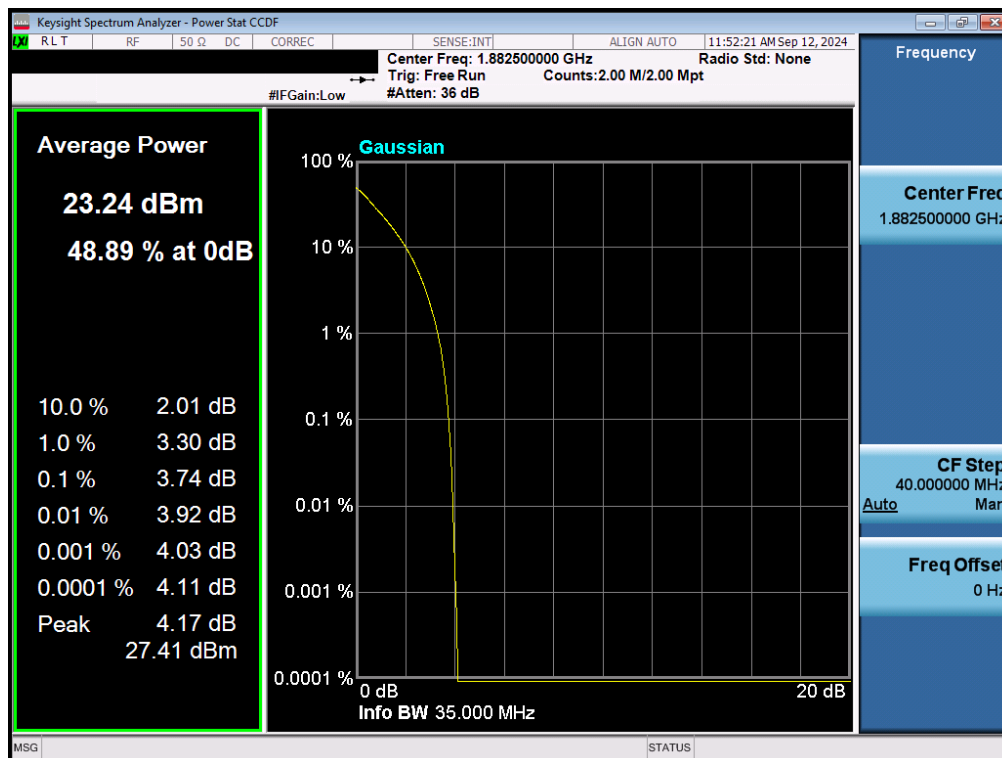


Plot 7-214. PAR Plot (NR Band n25/2 - 40.0MHz CP-OFDM QPSK - Full RB - ANT2)

|                                         |                                      |                               |                                   |
|-----------------------------------------|--------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMS936U                      | PART 24 MEASUREMENT REPORT           |                               | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2408260064-02.A3L | Test Dates:<br>9/4/2024 - 10/10/2024 | EUT Type:<br>Portable Handset | Page 139 of 177                   |

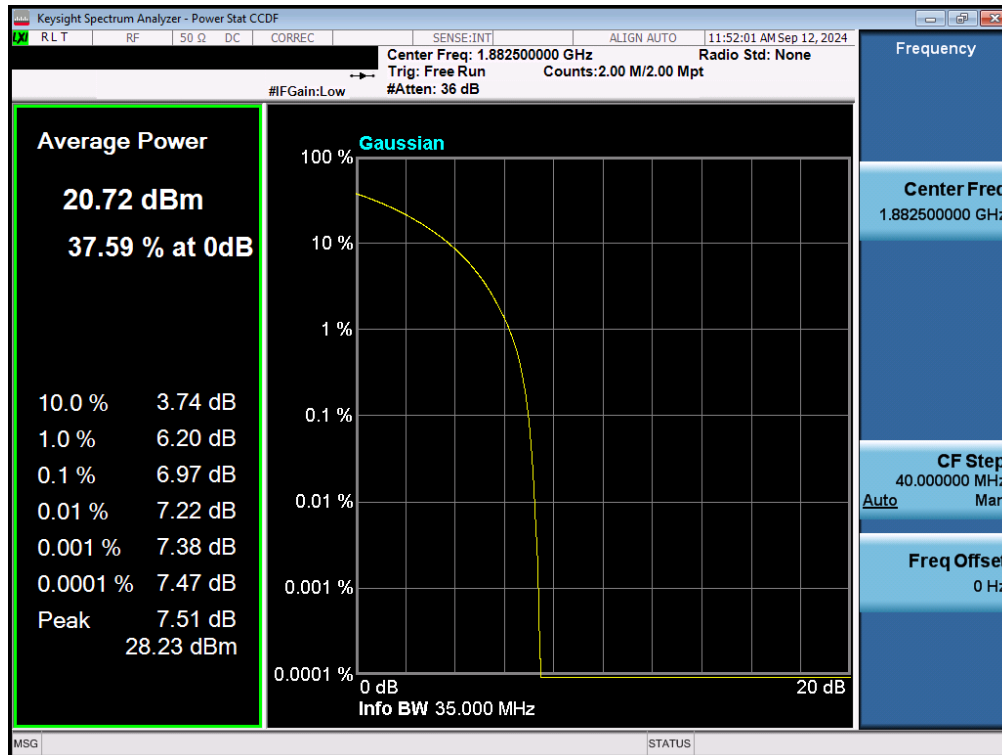


Plot 7-215. PAR Plot (NR Band n25/2 - 40.0MHz CP-OFDM 256-QAM - Full RB - ANT2)

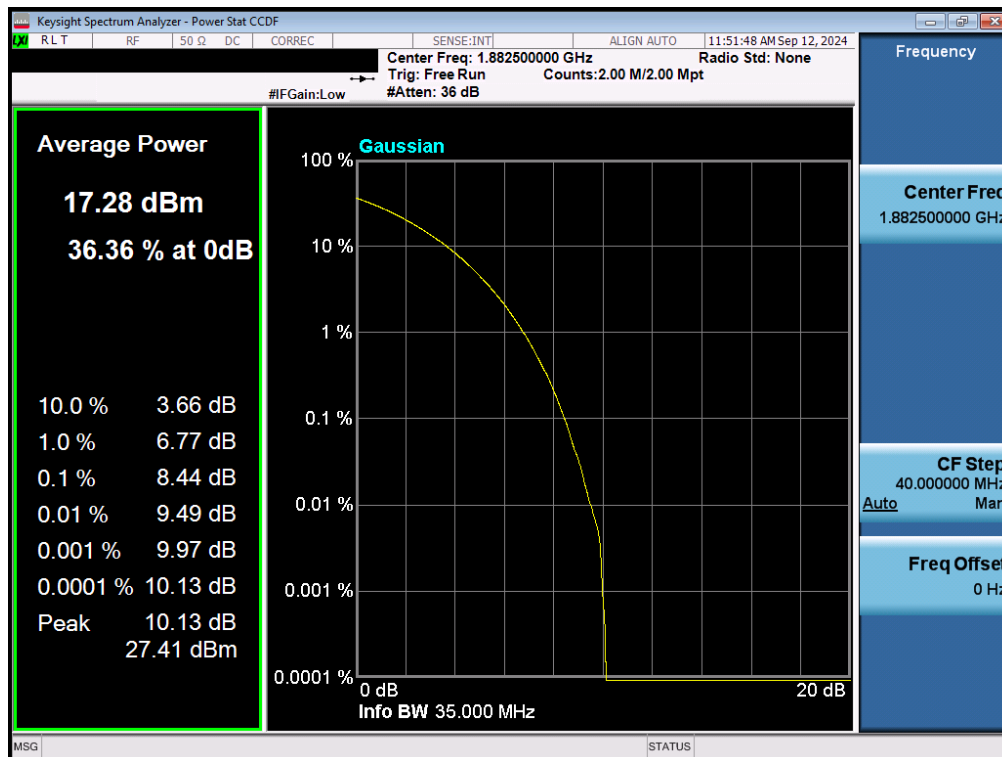


Plot 7-216. PAR Plot (NR Band n25/2 - 35.0MHz DFT-s-OFDM BPSK - Full RB - ANT2)

|                                         |                                      |                               |                                   |
|-----------------------------------------|--------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMS936U                      | PART 24 MEASUREMENT REPORT           |                               | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2408260064-02.A3L | Test Dates:<br>9/4/2024 - 10/10/2024 | EUT Type:<br>Portable Handset | Page 140 of 177                   |

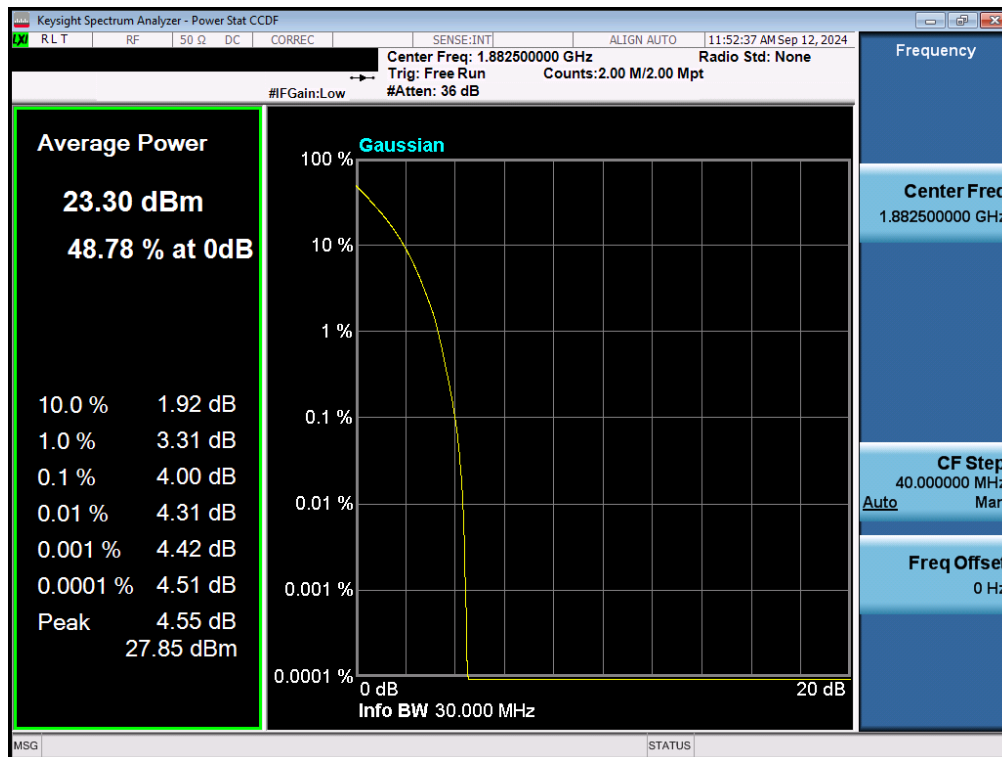


Plot 7-217. PAR Plot (NR Band n25/2 - 35.0MHz CP-OFDM QPSK - Full RB - ANT2)

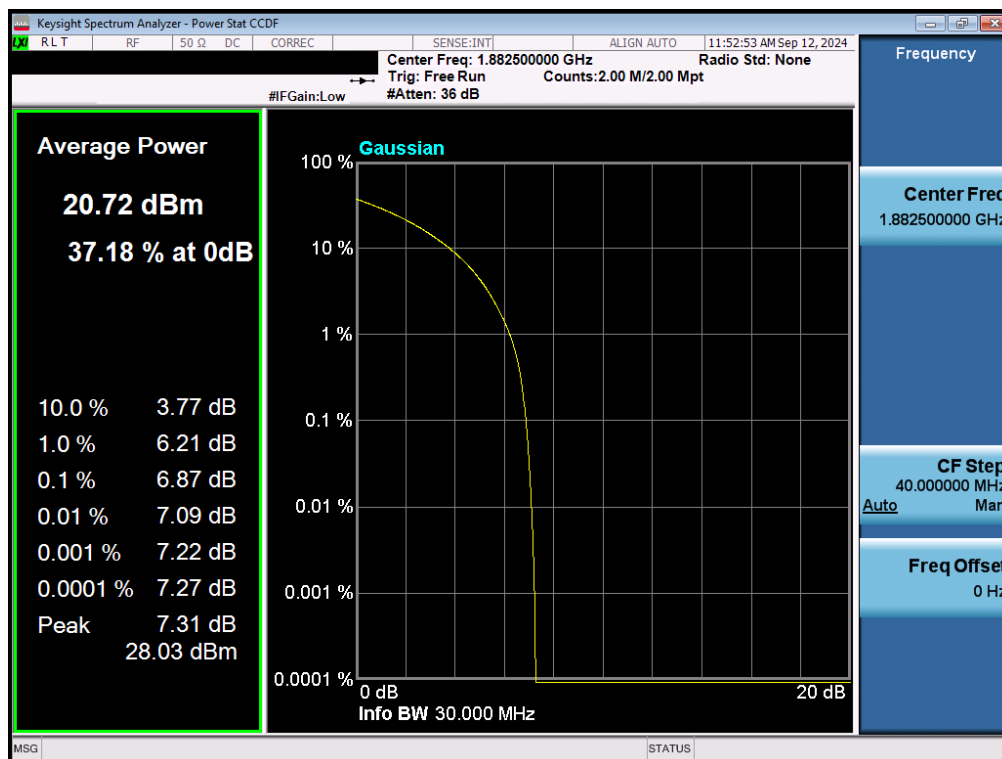


Plot 7-218. PAR Plot (NR Band n25/2 - 35.0MHz CP-OFDM 256-QAM - Full RB - ANT2)

|                                         |                                      |                               |                                   |
|-----------------------------------------|--------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMS936U                      | PART 24 MEASUREMENT REPORT           |                               | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2408260064-02.A3L | Test Dates:<br>9/4/2024 - 10/10/2024 | EUT Type:<br>Portable Handset | Page 141 of 177                   |

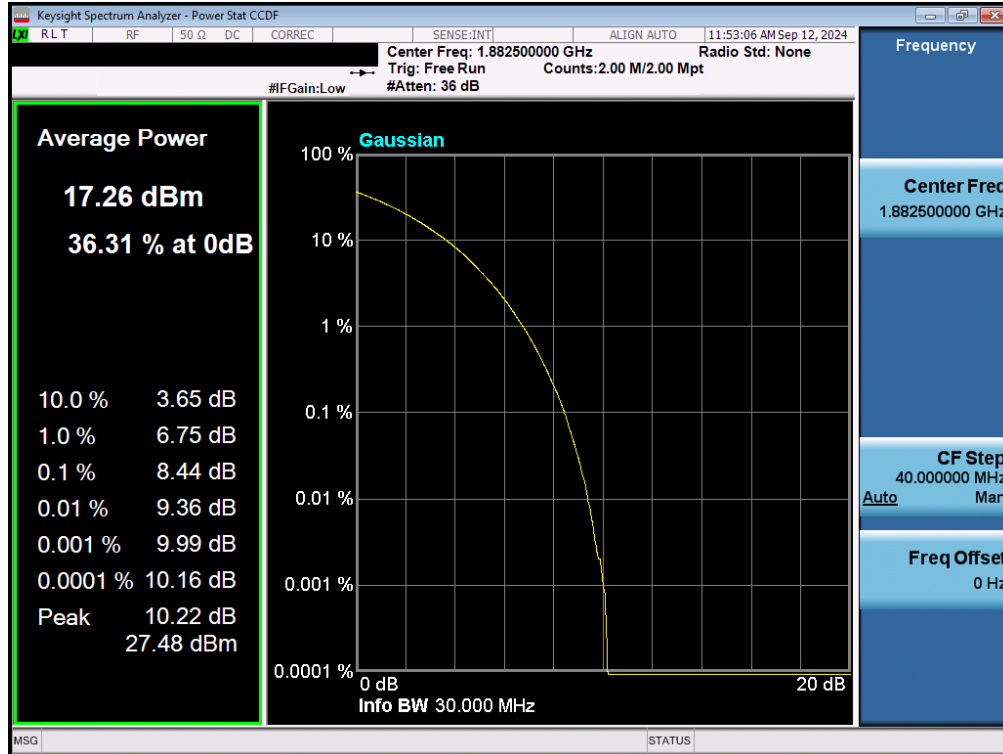


Plot 7-219. PAR Plot (NR Band n25/2 - 30.0MHz DFT-s-OFDM BPSK - Full RB - ANT2)

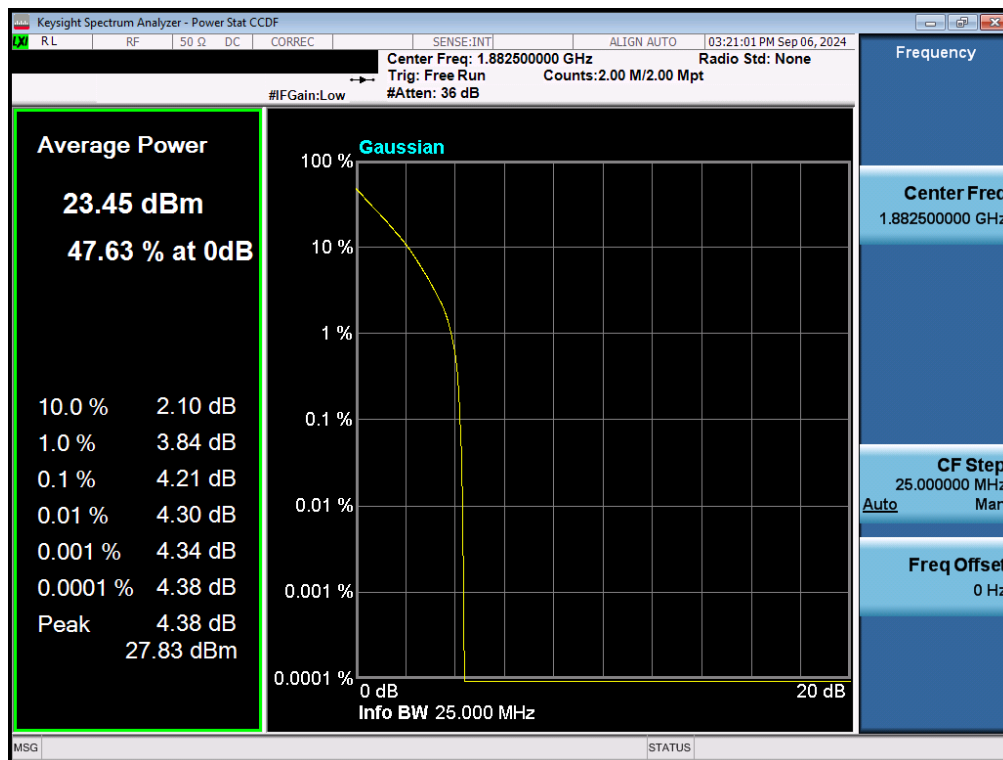


Plot 7-220. PAR Plot (NR Band n25/2 - 30.0MHz CP-OFDM QPSK - Full RB - ANT2)

|                                         |                                      |                               |                                   |
|-----------------------------------------|--------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMS936U                      | PART 24 MEASUREMENT REPORT           |                               | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2408260064-02.A3L | Test Dates:<br>9/4/2024 - 10/10/2024 | EUT Type:<br>Portable Handset | Page 142 of 177                   |

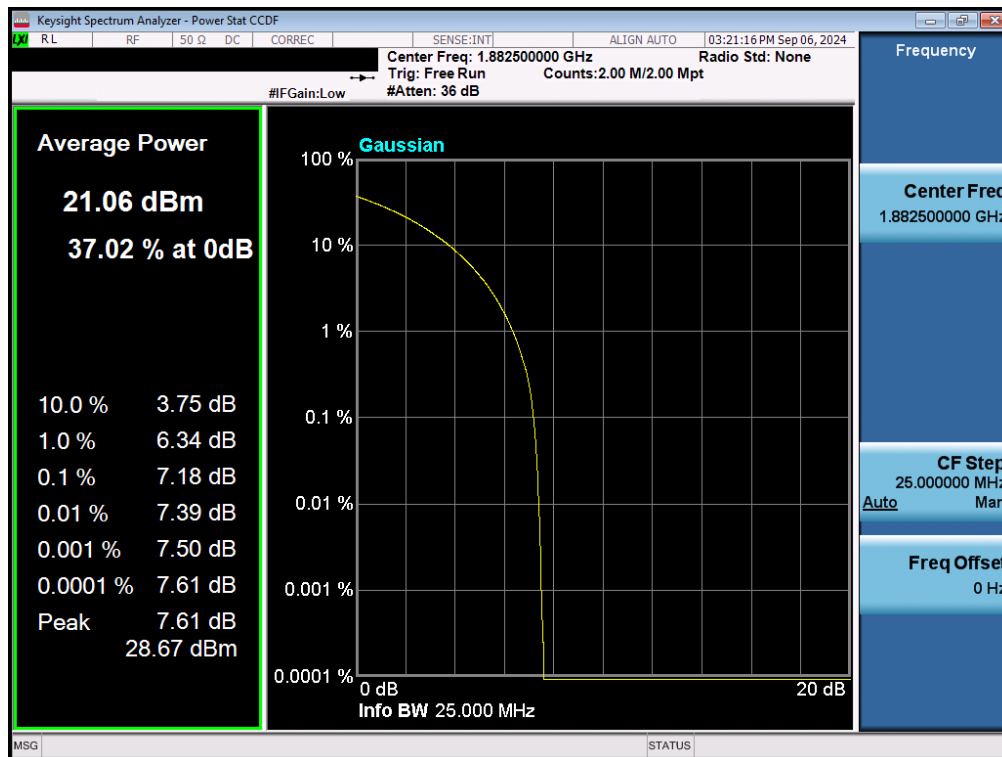


Plot 7-221. PAR Plot (NR Band n25/2 - 30.0MHz CP-OFDM 256-QAM - Full RB - ANT2)

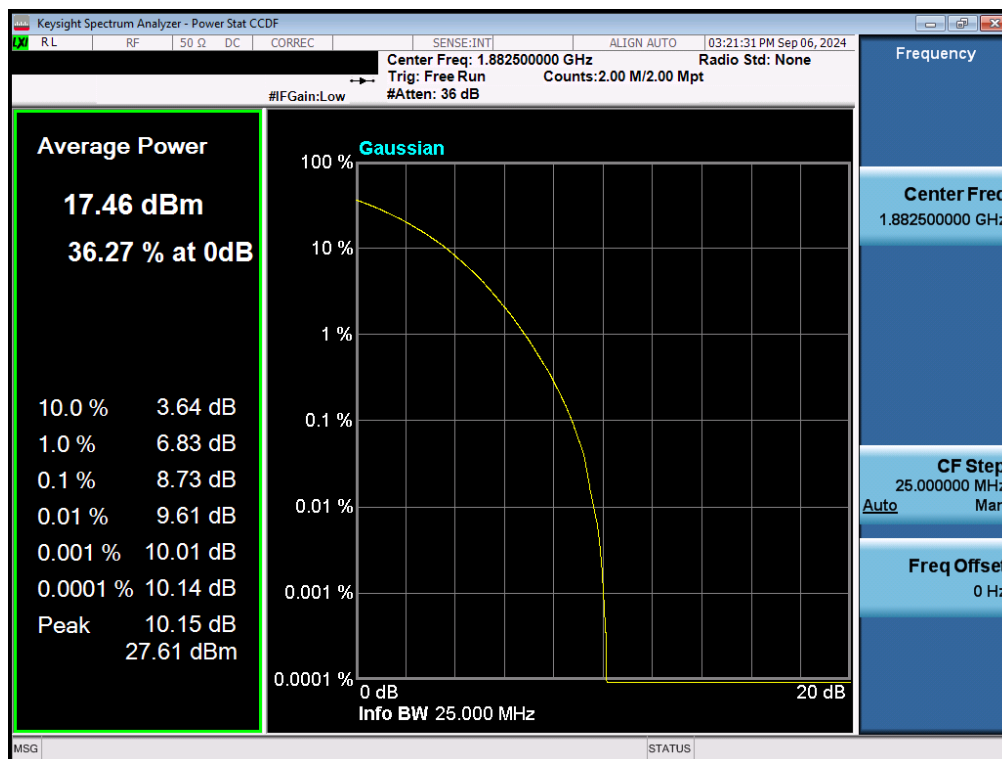


Plot 7-222. PAR Plot (NR Band n25/2 - 25.0MHz DFT-s-OFDM BPSK - Full RB - ANT2)

|                                         |                                      |                               |                                   |
|-----------------------------------------|--------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMS936U                      | PART 24 MEASUREMENT REPORT           |                               | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2408260064-02.A3L | Test Dates:<br>9/4/2024 - 10/10/2024 | EUT Type:<br>Portable Handset | Page 143 of 177                   |

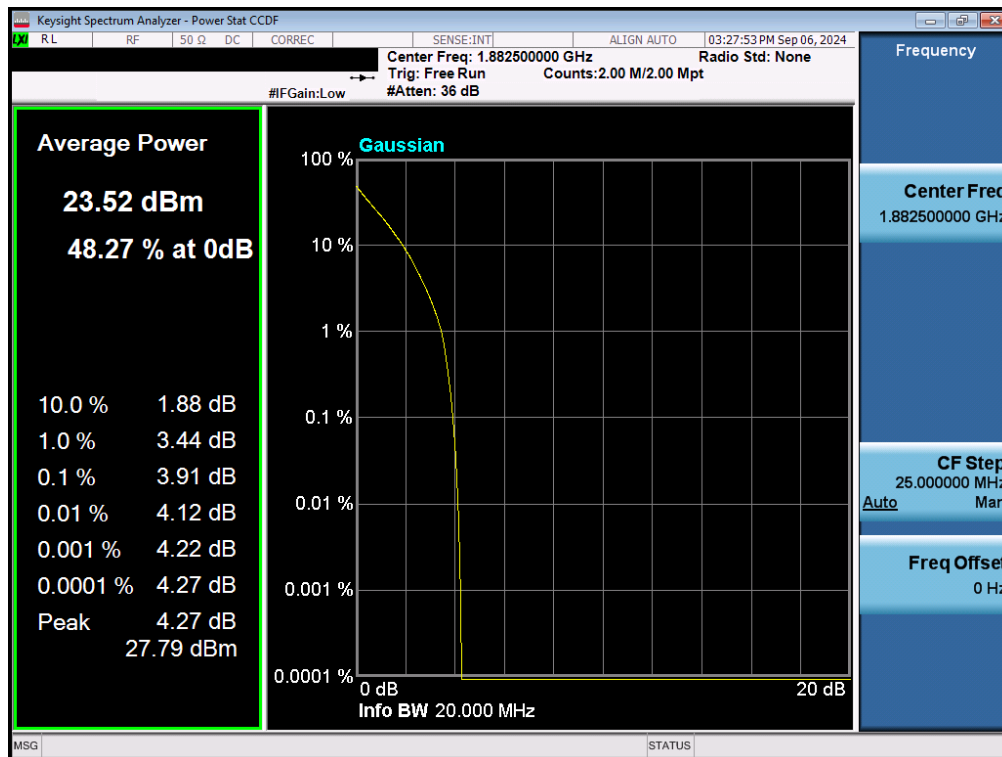


Plot 7-223. PAR Plot (NR Band n25/2 - 25.0MHz CP-OFDM QPSK - Full RB - ANT2)

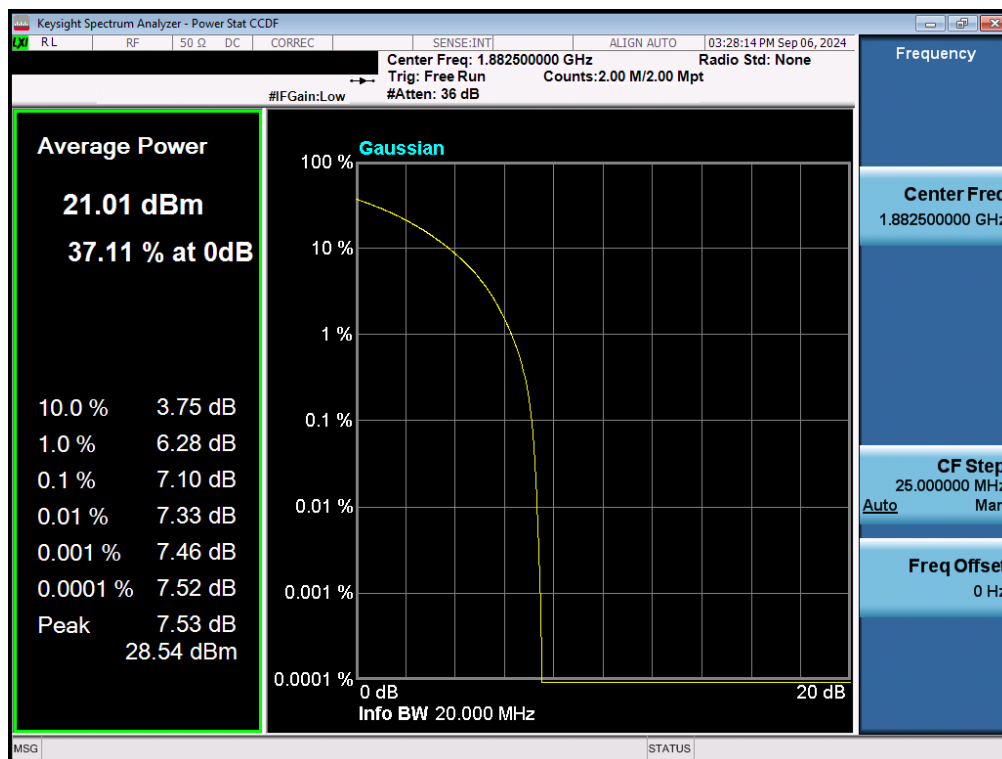


Plot 7-224. PAR Plot (NR Band n25/2 - 25.0MHz CP-OFDM 256-QAM - Full RB - ANT2)

|                                         |                                      |                               |                                   |
|-----------------------------------------|--------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMS936U                      | PART 24 MEASUREMENT REPORT           |                               | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2408260064-02.A3L | Test Dates:<br>9/4/2024 - 10/10/2024 | EUT Type:<br>Portable Handset | Page 144 of 177                   |

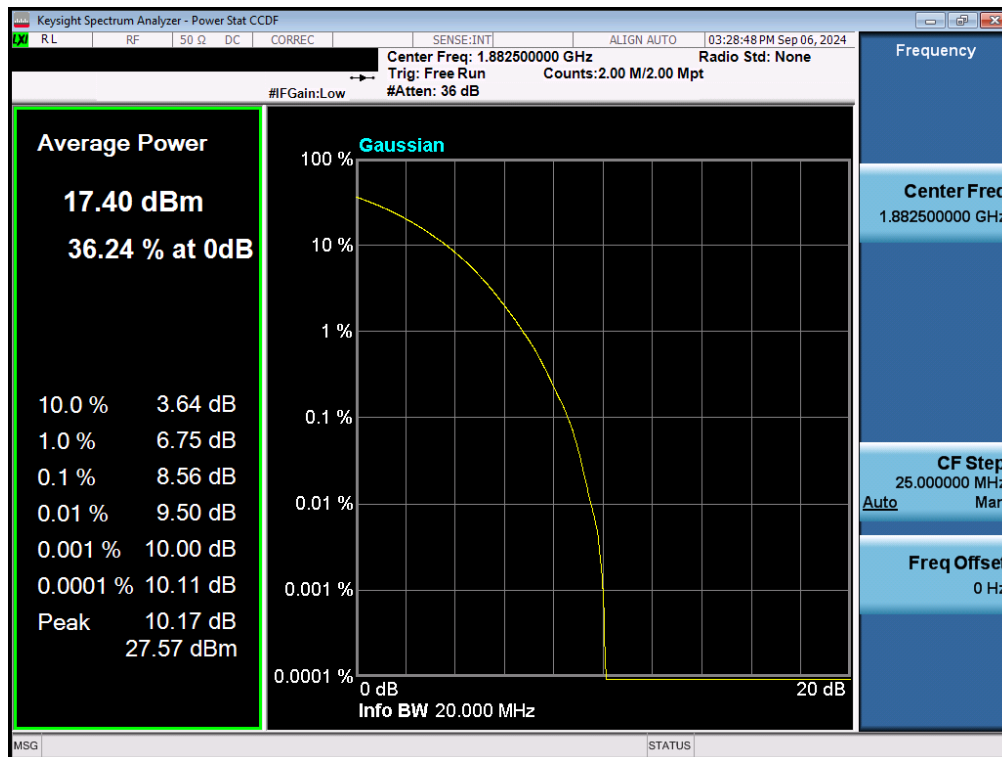


Plot 7-225. PAR Plot (NR Band n25/2 - 20.0MHz DFT-s-OFDM BPSK - Full RB - ANT2)

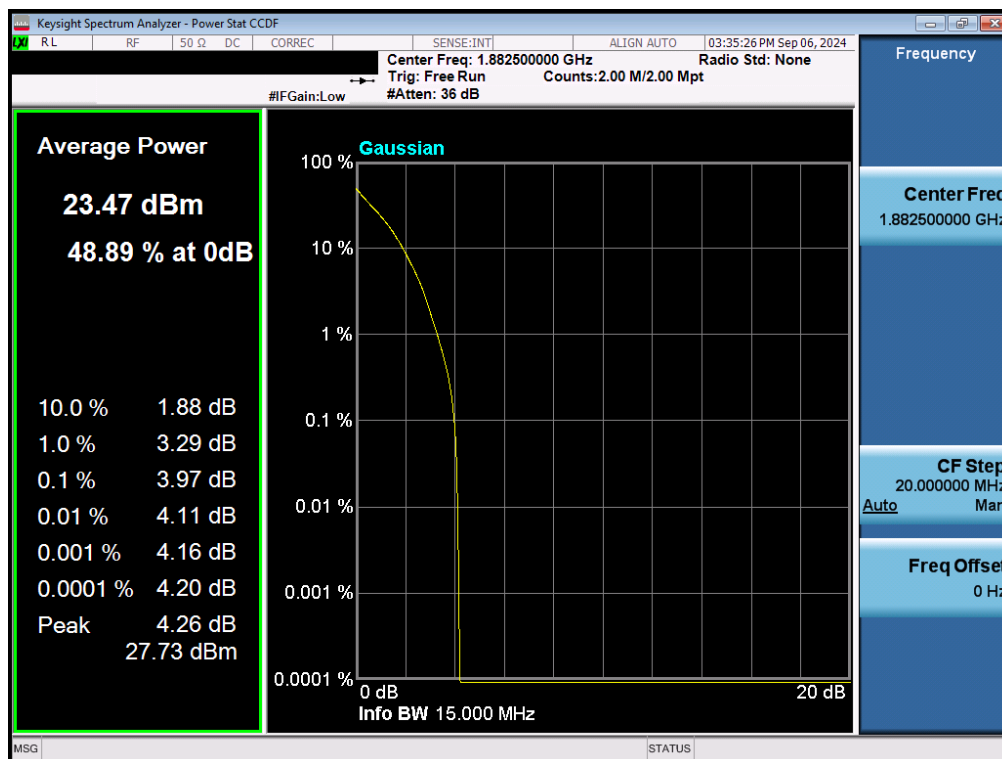


Plot 7-226. PAR Plot (NR Band n25/2 - 20.0MHz CP-OFDM QPSK - Full RB - ANT2)

|                                         |                                      |                               |                                   |
|-----------------------------------------|--------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMS936U                      | PART 24 MEASUREMENT REPORT           |                               | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2408260064-02.A3L | Test Dates:<br>9/4/2024 - 10/10/2024 | EUT Type:<br>Portable Handset | Page 145 of 177                   |

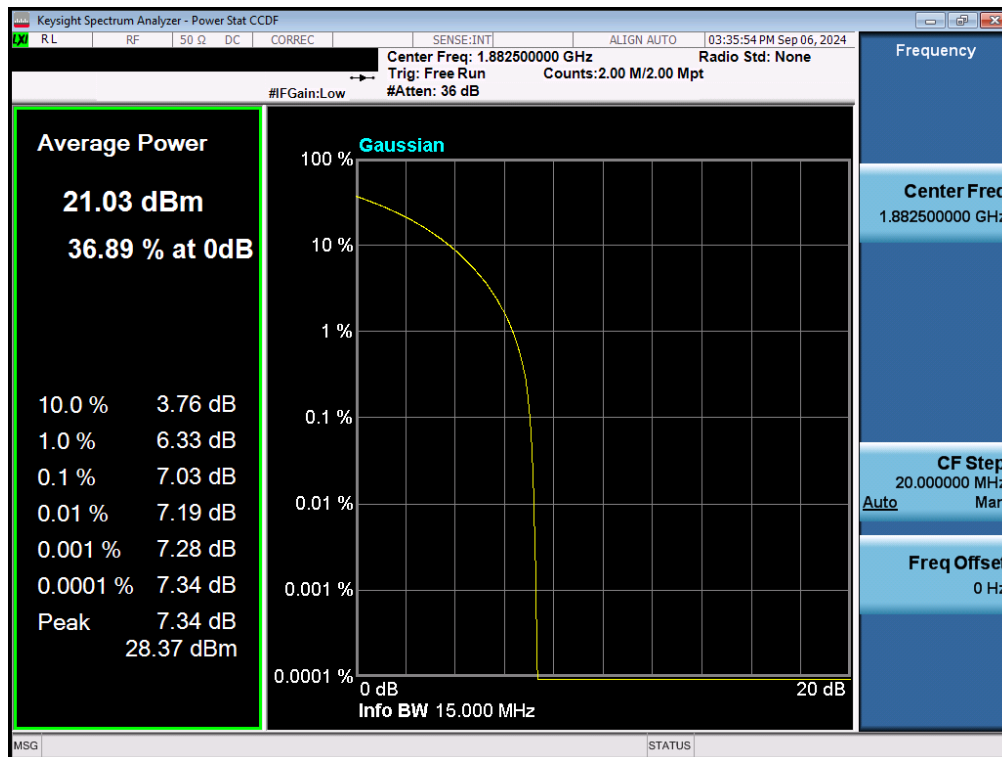


Plot 7-227. PAR Plot (NR Band n25/2 - 20.0MHz CP-OFDM 256-QAM - Full RB - ANT2)

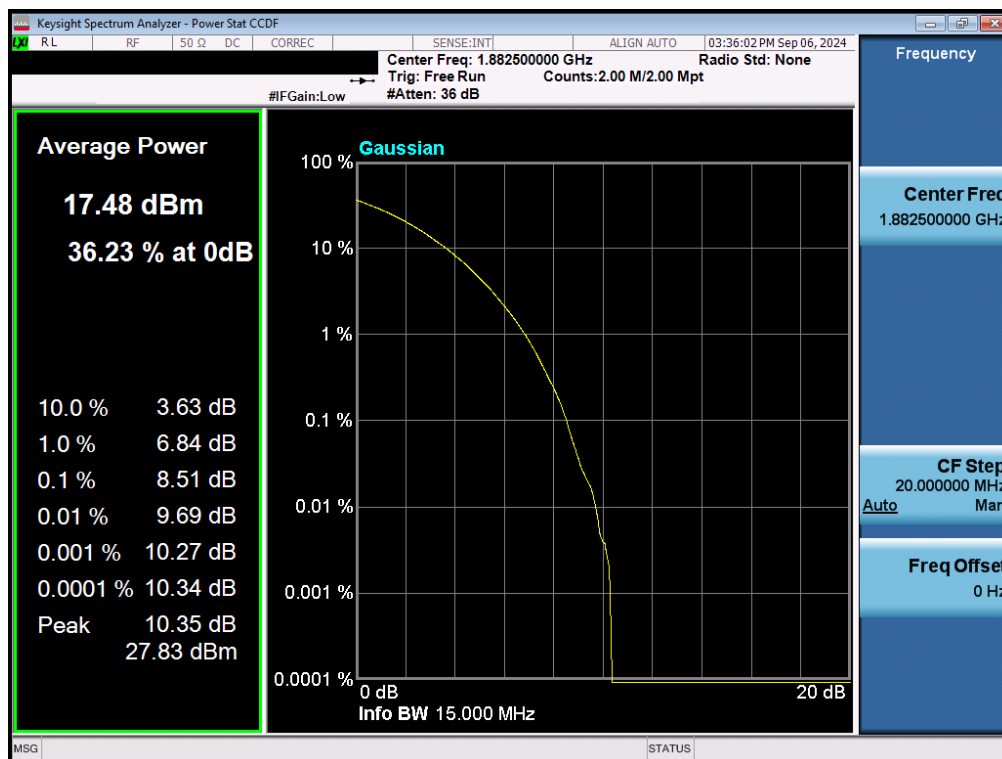


Plot 7-228. PAR Plot (NR Band n25/2 - 15.0MHz DFT-s-OFDM BPSK - Full RB - ANT2)

|                                         |                                      |                               |                                   |
|-----------------------------------------|--------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMS936U                      | PART 24 MEASUREMENT REPORT           |                               | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2408260064-02.A3L | Test Dates:<br>9/4/2024 - 10/10/2024 | EUT Type:<br>Portable Handset | Page 146 of 177                   |

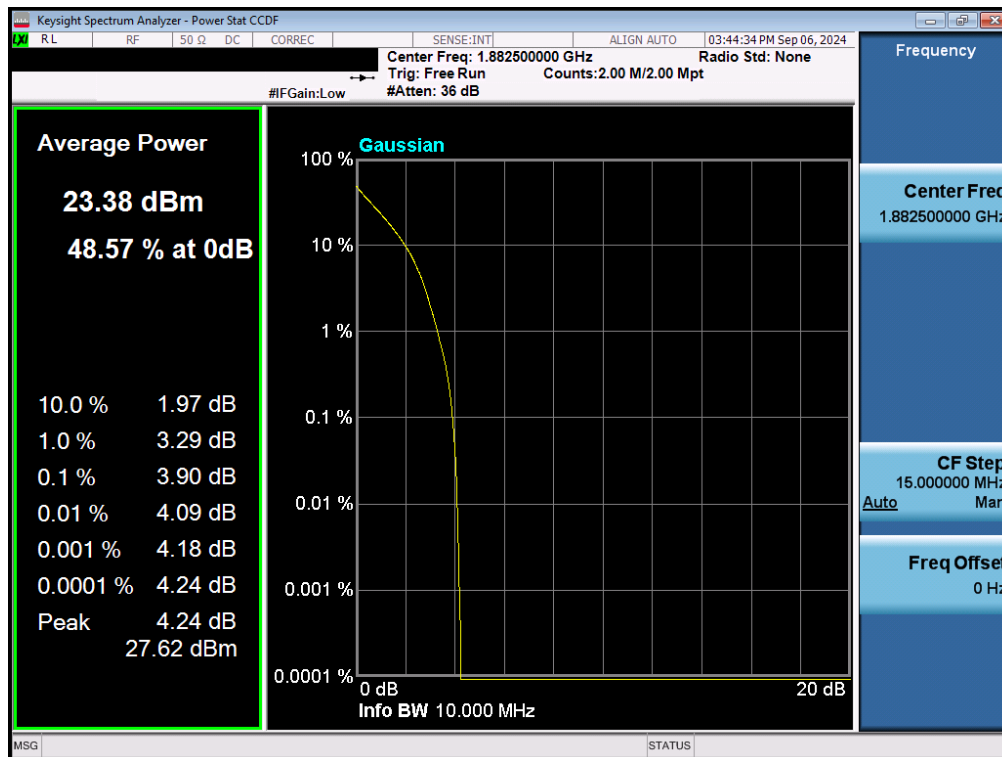


Plot 7-229. PAR Plot (NR Band n25/2 - 15.0MHz CP-OFDM QPSK - Full RB - ANT2)

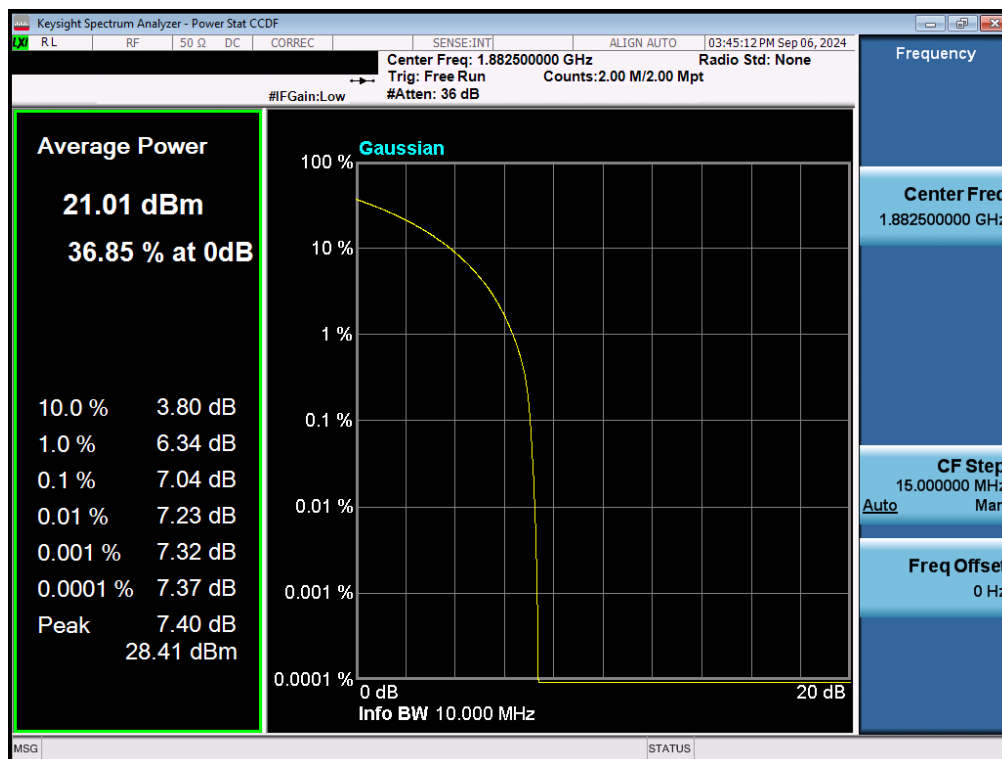


Plot 7-230. PAR Plot (NR Band n25/2 - 15.0MHz CP-OFDM 256-QAM - Full RB - ANT2)

|                                         |                                      |                               |                                   |
|-----------------------------------------|--------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMS936U                      | PART 24 MEASUREMENT REPORT           |                               | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2408260064-02.A3L | Test Dates:<br>9/4/2024 - 10/10/2024 | EUT Type:<br>Portable Handset | Page 147 of 177                   |

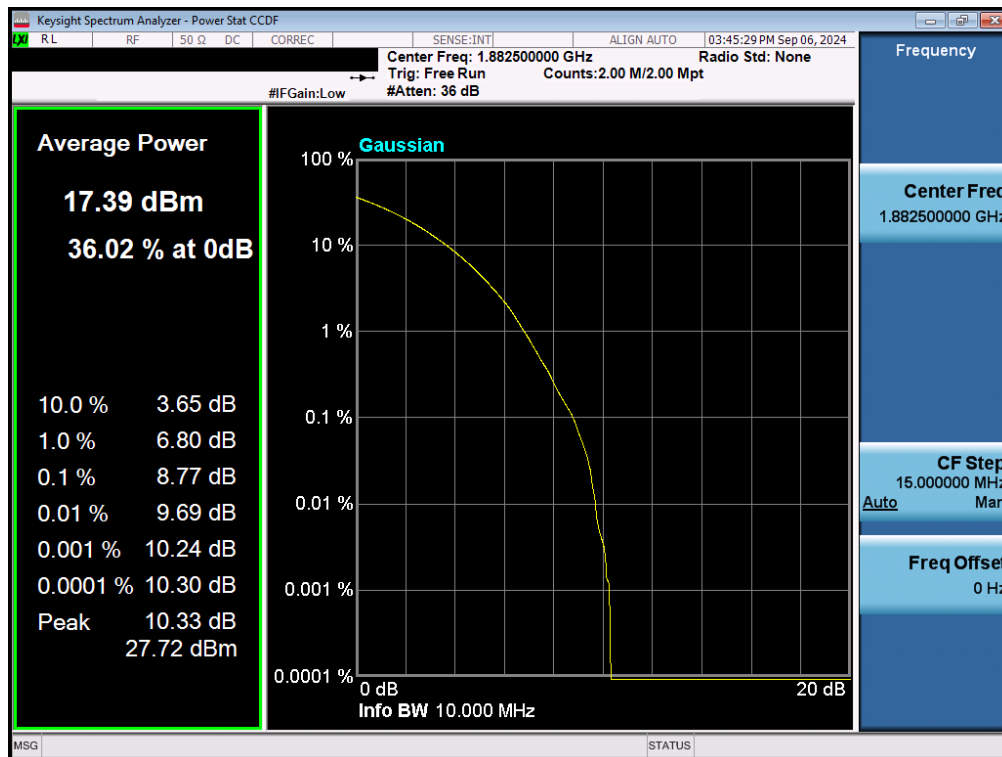


Plot 7-231. PAR Plot (NR Band n25/2 - 10.0MHz DFT-s-OFDM BPSK - Full RB - ANT2)

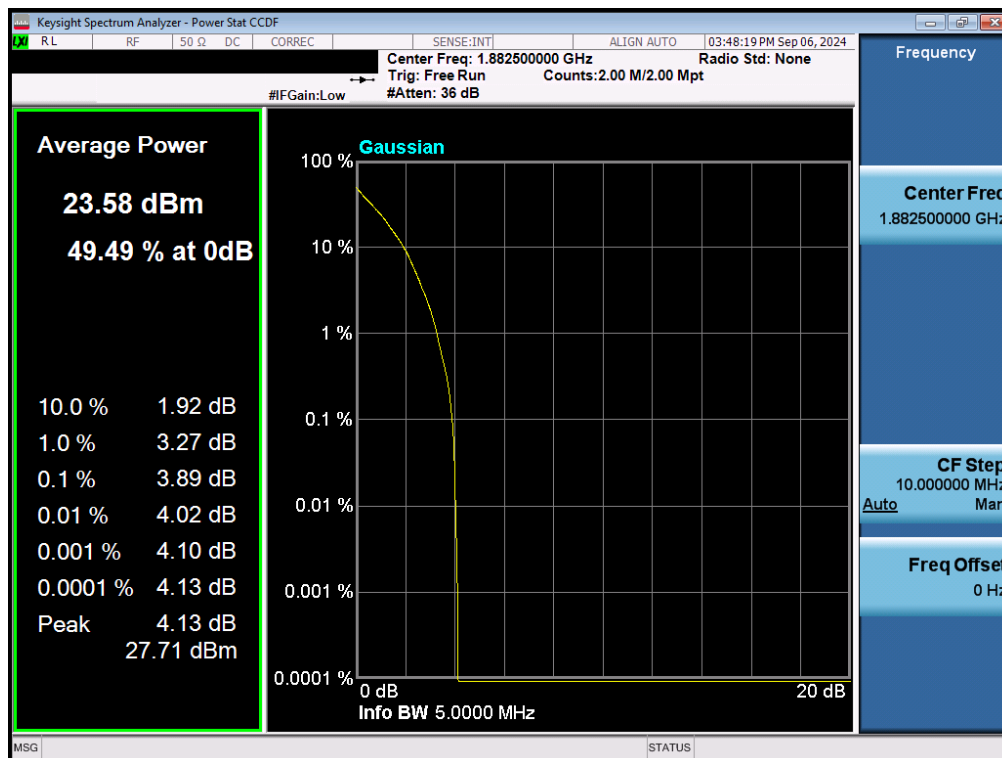


Plot 7-232. PAR Plot (NR Band n25/2 - 10.0MHz CP-OFDM QPSK - Full RB - ANT2)

|                                         |                                      |                               |                                   |
|-----------------------------------------|--------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMS936U                      | PART 24 MEASUREMENT REPORT           |                               | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2408260064-02.A3L | Test Dates:<br>9/4/2024 - 10/10/2024 | EUT Type:<br>Portable Handset | Page 148 of 177                   |

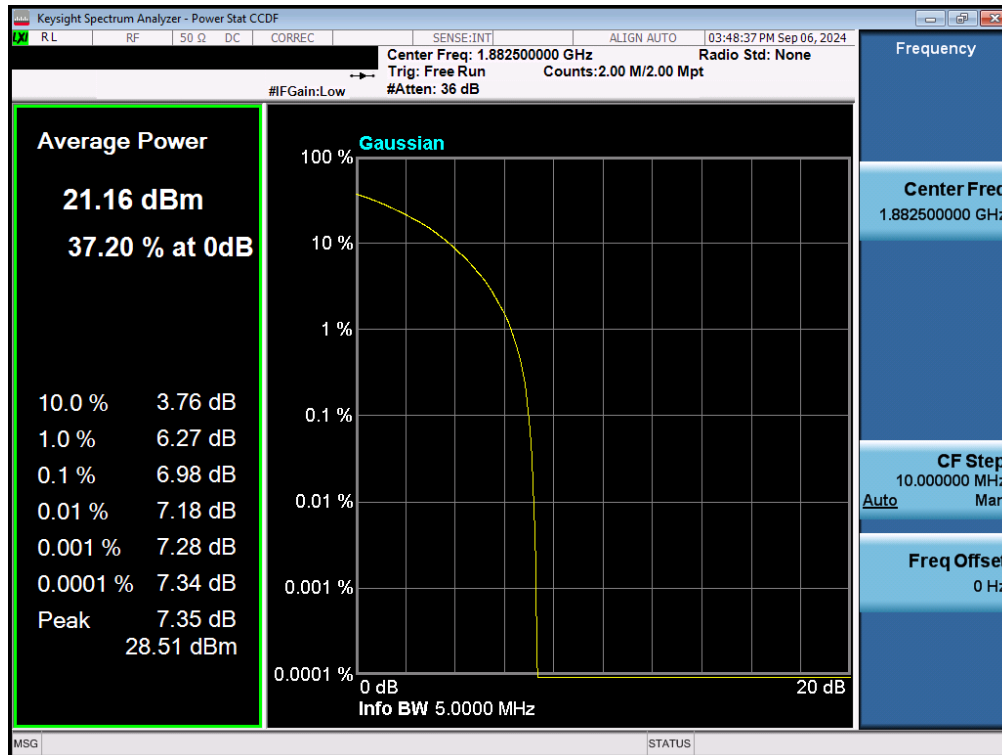


Plot 7-233. PAR Plot (NR Band n25/2 - 10.0MHz CP-OFDM 256-QAM - Full RB - ANT2)

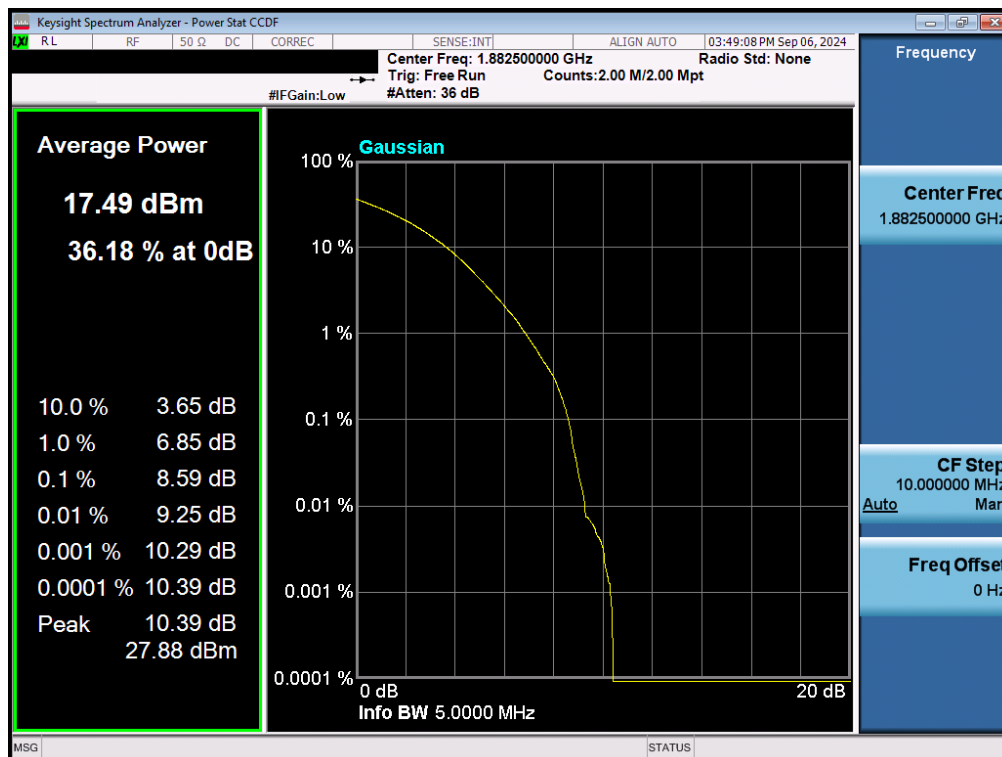


Plot 7-234. PAR Plot (NR Band n25/2 - 5.0MHz DFT-s-OFDM BPSK - Full RB - ANT2)

|                                         |                                      |                               |                                   |
|-----------------------------------------|--------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMS936U                      | PART 24 MEASUREMENT REPORT           |                               | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2408260064-02.A3L | Test Dates:<br>9/4/2024 - 10/10/2024 | EUT Type:<br>Portable Handset | Page 149 of 177                   |



Plot 7-235. PAR Plot (NR Band n25/2 - 5.0MHz CP-OFDM QPSK - Full RB - ANT2)



Plot 7-236. PAR Plot (NR Band n25/2 - 5.0MHz CP-OFDM 256-QAM - Full RB - ANT2)

|                                         |                                      |                               |                                   |
|-----------------------------------------|--------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMS936U                      | PART 24 MEASUREMENT REPORT           |                               | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2408260064-02.A3L | Test Dates:<br>9/4/2024 - 10/10/2024 | EUT Type:<br>Portable Handset | Page 150 of 177                   |

## 7.7 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

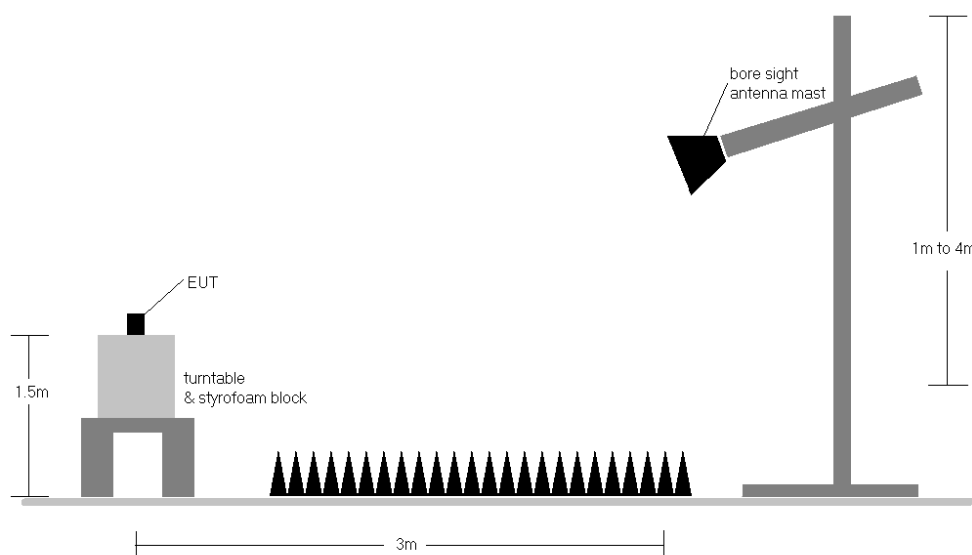
### Test Settings

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: A3LSMS936U                      | PART 24 MEASUREMENT REPORT           |                               | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2408260064-02.A3L | Test Dates:<br>9/4/2024 - 10/10/2024 | EUT Type:<br>Portable Handset | Page 151 of 177                   |

## Test Setup

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



**Figure 7-6. Radiated Test Setup >1GHz**

## Test Notes

- 1) This device employs GSM, GPRS, and EDGE capabilities. The EUT was tested under all configurations and the highest powers are reported in GPRS mode while transmitting with one slot active.
- 2) This device employs UMTS technology with WCDMA (AMR/RMC) and HSDPA capabilities. The EUT was tested under all configurations and the highest powers are reported in WCDMA mode with HSDPA Inactive at 12.2 kbps RMC and TPC bits all set to "1".
- 3) 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.
- 4) This unit was tested with its standard battery.
- 5) 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: A3LSMS936U                      | PART 24 MEASUREMENT REPORT           |                               | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2408260064-02.A3L | Test Dates:<br>9/4/2024 - 10/10/2024 | EUT Type:<br>Portable Handset | Page 152 of 177                   |

| Frequency [MHz] | Mode          | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Substitute Level [dBm] | Ant. Gain [dBi] | EIRP [dBm]   | EIRP [Watts] | EIRP Limit [dBm] | Margin [dB] |
|-----------------|---------------|-----------------|---------------------|----------------------------|------------------------|-----------------|--------------|--------------|------------------|-------------|
| 1850.20         | GSM1900       | V               | 118                 | 332                        | 28.31                  | 2.62            | <b>30.93</b> | <b>1.240</b> | 33.01            | -2.08       |
| 1880.00         | GSM1900       | V               | 103                 | 338                        | 27.94                  | 2.34            | 30.28        | 1.066        | 33.01            | -2.73       |
| 1909.80         | GSM1900       | V               | 133                 | 329                        | 27.42                  | 2.22            | 29.64        | 0.920        | 33.01            | -3.37       |
| 1850.20         | GSM1900       | H               | 116                 | 15                         | 27.46                  | 2.86            | 30.32        | 1.075        | 33.01            | -2.69       |
| 1850.20         | EDGE1900      | V               | 118                 | 332                        | 22.41                  | 2.34            | <b>24.75</b> | 0.298        | 33.01            | -8.26       |
| 1850.20         | GSM1900 (WCP) | V               | 105                 | 134                        | 28.40                  | 2.34            | 30.74        | 1.186        | 33.01            | -2.27       |

Table 7-16. EIRP Data (GPRS PCS – Ant1)

| Frequency [MHz] | Mode            | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Substitute Level [dBm] | Ant. Gain [dBi] | EIRP [dBm]   | EIRP [Watts] | EIRP Limit [dBm] | Margin [dB] |
|-----------------|-----------------|-----------------|---------------------|----------------------------|------------------------|-----------------|--------------|--------------|------------------|-------------|
| 1852.40         | WCDMA1900       | H               | 104                 | 9                          | 22.08                  | 2.84            | <b>24.92</b> | <b>0.310</b> | 33.01            | -8.09       |
| 1880.00         | WCDMA1900       | H               | 108                 | 8                          | 21.15                  | 2.67            | 23.82        | 0.241        | 33.01            | -9.20       |
| 1907.60         | WCDMA1900       | H               | 105                 | 6                          | 21.19                  | 2.54            | 23.73        | 0.236        | 33.01            | -9.28       |
| 1852.40         | WCDMA1900       | V               | 112                 | 333                        | 21.82                  | 2.60            | 24.42        | 0.277        | 33.01            | -8.59       |
| 1852.40         | WCDMA1900 (WCP) | H               | 105                 | 134                        | 21.71                  | 2.84            | 24.55        | 0.285        | 33.01            | -8.46       |

Table 7-17. EIRP Data (WCDMA PCS – Ant1)

| 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          | 1860.00         | H               | 153                 | 136                        | 2.79            | 1 / 0          | 20.19                  | 22.98        | 0.199        | 33.01            | -10.03      |
|           | QPSK          | 1882.50         | H               | 145                 | 140                        | 2.65            | 1 / 50         | 21.35                  | <b>24.00</b> | 0.251        | 33.01            | -9.01       |
|           | QPSK          | 1905.00         | H               | 142                 | 138                        | 2.54            | 1 / 0          | 21.09                  | 23.63        | 0.231        | 33.01            | -9.38       |
|           | 16-QAM        | 1882.50         | H               | 145                 | 140                        | 2.65            | 1 / 50         | 20.73                  | 23.38        | 0.218        | 33.01            | -9.63       |
| 15 MHz    | QPSK          | 1857.50         | H               | 153                 | 136                        | 2.81            | 1 / 0          | 20.28                  | 23.09        | 0.204        | 33.01            | -9.92       |
|           | QPSK          | 1882.50         | H               | 145                 | 140                        | 2.65            | 1 / 37         | 21.37                  | <b>24.02</b> | 0.252        | 33.01            | -9.00       |
|           | QPSK          | 1907.50         | H               | 142                 | 138                        | 2.54            | 1 / 0          | 21.08                  | 23.63        | 0.231        | 33.01            | -9.38       |
|           | 16-QAM        | 1882.50         | H               | 145                 | 140                        | 2.65            | 1 / 37         | 20.59                  | 23.23        | 0.211        | 33.01            | -9.78       |
| 10 MHz    | QPSK          | 1855.00         | H               | 153                 | 136                        | 2.82            | 1 / 25         | 20.11                  | 22.93        | 0.197        | 33.01            | -10.08      |
|           | QPSK          | 1882.50         | H               | 145                 | 140                        | 2.65            | 1 / 25         | 21.32                  | <b>23.97</b> | 0.249        | 33.01            | -9.04       |
|           | QPSK          | 1910.00         | H               | 142                 | 138                        | 2.55            | 1 / 25         | 20.90                  | 23.45        | 0.221        | 33.01            | -9.56       |
|           | 16-QAM        | 1882.50         | H               | 145                 | 140                        | 2.65            | 1 / 0          | 20.35                  | 23.00        | 0.200        | 33.01            | -10.01      |
| 5 MHz     | QPSK          | 1852.50         | H               | 153                 | 136                        | 2.84            | 1 / 24         | 20.18                  | 23.02        | 0.200        | 33.01            | -9.99       |
|           | QPSK          | 1882.50         | H               | 145                 | 140                        | 2.65            | 1 / 12         | 21.44                  | <b>24.09</b> | 0.257        | 33.01            | -8.92       |
|           | QPSK          | 1912.50         | H               | 142                 | 138                        | 2.55            | 1 / 12         | 20.80                  | 23.35        | 0.216        | 33.01            | -9.66       |
|           | 16-QAM        | 1882.50         | H               | 145                 | 140                        | 2.65            | 1 / 12         | 20.84                  | 23.49        | 0.223        | 33.01            | -9.52       |
| 3 MHz     | QPSK          | 1851.50         | H               | 153                 | 136                        | 2.85            | 1 / 7          | 20.24                  | 23.09        | 0.204        | 33.01            | -9.92       |
|           | QPSK          | 1882.50         | H               | 145                 | 140                        | 2.65            | 1 / 7          | 21.41                  | <b>24.06</b> | 0.254        | 33.01            | -8.95       |
|           | QPSK          | 1913.50         | H               | 142                 | 138                        | 2.55            | 1 / 7          | 20.72                  | 23.27        | 0.212        | 33.01            | -9.74       |
|           | 16-QAM        | 1882.50         | H               | 145                 | 140                        | 2.65            | 1 / 14         | 20.60                  | 23.25        | 0.212        | 33.01            | -9.76       |
| 1.4 MHz   | QPSK          | 1850.70         | H               | 153                 | 136                        | 2.85            | 1 / 5          | 20.30                  | 23.15        | 0.207        | 33.01            | -9.86       |
|           | QPSK          | 1882.50         | H               | 145                 | 140                        | 2.65            | 1 / 3          | 21.37                  | <b>24.02</b> | 0.253        | 33.01            | -8.99       |
|           | QPSK          | 1914.30         | H               | 142                 | 138                        | 2.55            | 1 / 0          | 20.74                  | 23.29        | 0.213        | 33.01            | -9.72       |
|           | 16-QAM        | 1882.50         | H               | 145                 | 140                        | 2.65            | 1 / 5          | 20.65                  | 23.30        | 0.214        | 33.01            | -9.71       |
| 20 MHz    | Opposite Pol. | 1882.50         | V               | 119                 | 343                        | 2.32            | 1 / 0          | 21.58                  | 23.90        | 0.245        | 33.01            | -9.11       |
|           | WCP           | 1882.50         | H               | 146                 | 137                        | 2.65            | 1 / 50         | 21.58                  | 24.23        | 0.265        | 33.01            | -8.78       |

Table 7-18. EIRP Data (LTE Band 25/2 – Ant1)

|                                         |                                      |                               |                                   |
|-----------------------------------------|--------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMS936U                      | PART 24 MEASUREMENT REPORT           |                               | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2408260064-02.A3L | Test Dates:<br>9/4/2024 - 10/10/2024 | EUT Type:<br>Portable Handset | Page 153 of 177                   |

| 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] |
|-----------|--------------|-----------------|-----------------|---------------------|----------------------------|-----------------|----------------|------------------------|--------------|--------------|------------------|-------------|
| 40 MHz    | $\pi/2$ BPSK | 1870.00         | H               | 205                 | 123                        | 2.73            | 1 / 1          | 19.91                  | 22.64        | 0.184        | 33.01            | -10.37      |
|           | $\pi/2$ BPSK | 1882.50         | H               | 205                 | 123                        | 2.65            | 1 / 1          | 20.00                  | 22.65        | 0.184        | 33.01            | -10.36      |
|           | $\pi/2$ BPSK | 1895.00         | H               | 198                 | 125                        | 2.57            | 1 / 1          | 19.40                  | 21.97        | 0.157        | 33.01            | -11.04      |
|           | QPSK         | 1870.00         | H               | 205                 | 123                        | 2.73            | 1 / 1          | 19.86                  | 22.59        | 0.182        | 33.01            | -10.42      |
|           | QPSK         | 1882.50         | H               | 205                 | 123                        | 2.65            | 1 / 1          | 20.09                  | <b>22.74</b> | 0.188        | 33.01            | -10.27      |
|           | QPSK         | 1895.00         | H               | 198                 | 125                        | 2.57            | 1 / 1          | 19.24                  | 21.81        | 0.152        | 33.01            | -11.20      |
| 35 MHz    | 16-QAM       | 1870.00         | H               | 205                 | 123                        | 2.73            | 1 / 1          | 18.97                  | 21.70        | 0.148        | 33.01            | -11.31      |
|           | $\pi/2$ BPSK | 1862.50         | H               | 205                 | 123                        | 2.76            | 1 / 80         | 19.82                  | 22.58        | 0.181        | 33.01            | -10.43      |
|           | $\pi/2$ BPSK | 1882.50         | H               | 205                 | 123                        | 2.65            | 1 / 80         | 19.94                  | 22.59        | 0.181        | 33.01            | -10.43      |
|           | $\pi/2$ BPSK | 1902.50         | H               | 198                 | 125                        | 2.54            | 1 / 1          | 19.42                  | 21.96        | 0.157        | 33.01            | -11.05      |
|           | QPSK         | 1862.50         | H               | 205                 | 123                        | 2.76            | 1 / 80         | 19.81                  | 22.57        | 0.181        | 33.01            | -10.44      |
|           | QPSK         | 1882.50         | H               | 205                 | 123                        | 2.65            | 1 / 80         | 20.07                  | 22.72        | 0.187        | 33.01            | -10.29      |
| 30 MHz    | QPSK         | 1902.50         | H               | 198                 | 125                        | 2.54            | 1 / 1          | 19.26                  | 21.80        | 0.151        | 33.01            | -11.21      |
|           | 16-QAM       | 1862.50         | H               | 205                 | 123                        | 2.76            | 1 / 80         | 18.94                  | 21.70        | 0.148        | 33.01            | -11.31      |
|           | $\pi/2$ BPSK | 1865.00         | H               | 205                 | 123                        | 2.76            | 1 / 80         | 19.97                  | 22.74        | 0.188        | 33.01            | -10.28      |
|           | $\pi/2$ BPSK | 1882.50         | H               | 205                 | 123                        | 2.65            | 1 / 1          | 20.09                  | 22.74        | 0.188        | 33.01            | -10.27      |
|           | $\pi/2$ BPSK | 1900.00         | H               | 198                 | 125                        | 2.54            | 1 / 80         | 19.55                  | 22.09        | 0.162        | 33.01            | -10.92      |
|           | QPSK         | 1865.00         | H               | 205                 | 123                        | 2.76            | 1 / 80         | 19.94                  | 22.70        | 0.186        | 33.01            | -10.31      |
| 25 MHz    | QPSK         | 1882.50         | H               | 205                 | 123                        | 2.65            | 1 / 1          | 20.00                  | 22.65        | 0.184        | 33.01            | -10.36      |
|           | QPSK         | 1900.00         | H               | 198                 | 125                        | 2.54            | 1 / 80         | 19.12                  | 21.66        | 0.147        | 33.01            | -11.35      |
|           | 16-QAM       | 1865.00         | H               | 205                 | 123                        | 2.76            | 1 / 80         | 18.68                  | 21.45        | 0.139        | 33.01            | -11.56      |
|           | $\pi/2$ BPSK | 1862.50         | H               | 205                 | 123                        | 2.78            | 1 / 1          | 20.04                  | 22.82        | 0.191        | 33.01            | -10.19      |
|           | $\pi/2$ BPSK | 1882.50         | H               | 205                 | 123                        | 2.65            | 1 / 66         | 20.19                  | <b>22.84</b> | 0.192        | 33.01            | -10.17      |
|           | $\pi/2$ BPSK | 1902.50         | H               | 198                 | 125                        | 2.54            | 1 / 1          | 19.44                  | 21.98        | 0.158        | 33.01            | -11.03      |
| 20 MHz    | QPSK         | 1862.50         | H               | 205                 | 123                        | 2.78            | 1 / 1          | 19.77                  | 22.55        | 0.180        | 33.01            | -10.46      |
|           | QPSK         | 1882.50         | H               | 205                 | 123                        | 2.65            | 1 / 66         | 20.00                  | 22.65        | 0.184        | 33.01            | -10.36      |
|           | QPSK         | 1902.50         | H               | 198                 | 125                        | 2.54            | 1 / 1          | 19.07                  | 21.61        | 0.145        | 33.01            | -11.40      |
|           | 16-QAM       | 1882.50         | H               | 205                 | 123                        | 2.65            | 1 / 66         | 18.82                  | 21.47        | 0.140        | 33.01            | -11.54      |
|           | $\pi/2$ BPSK | 1860.00         | H               | 205                 | 123                        | 2.79            | 1 / 104        | 19.91                  | 22.71        | 0.187        | 33.01            | -10.30      |
|           | $\pi/2$ BPSK | 1882.50         | H               | 205                 | 123                        | 2.65            | 1 / 1          | 20.16                  | <b>22.81</b> | 0.191        | 33.01            | -10.20      |
| 15 MHz    | $\pi/2$ BPSK | 1905.00         | H               | 198                 | 125                        | 2.54            | 1 / 1          | 19.22                  | 21.77        | 0.150        | 33.01            | -11.24      |
|           | QPSK         | 1860.00         | H               | 205                 | 123                        | 2.79            | 1 / 104        | 19.95                  | 22.74        | 0.188        | 33.01            | -10.27      |
|           | QPSK         | 1882.50         | H               | 205                 | 123                        | 2.65            | 1 / 1          | 19.98                  | 22.63        | 0.183        | 33.01            | -10.38      |
|           | QPSK         | 1905.00         | H               | 198                 | 125                        | 2.54            | 1 / 1          | 19.00                  | 21.54        | 0.143        | 33.01            | -11.47      |
|           | 16-QAM       | 1860.00         | H               | 205                 | 123                        | 2.79            | 1 / 104        | 18.48                  | 21.27        | 0.134        | 33.01            | -11.74      |
|           | $\pi/2$ BPSK | 1857.50         | H               | 205                 | 123                        | 2.81            | 1 / 1          | 19.74                  | 22.55        | 0.180        | 33.01            | -10.46      |
| 10 MHz    | $\pi/2$ BPSK | 1882.50         | H               | 205                 | 123                        | 2.65            | 1 / 1          | 20.09                  | <b>22.74</b> | 0.188        | 33.01            | -10.27      |
|           | $\pi/2$ BPSK | 1907.50         | H               | 198                 | 125                        | 2.54            | 1 / 1          | 19.46                  | 22.00        | 0.159        | 33.01            | -11.01      |
|           | QPSK         | 1857.50         | H               | 205                 | 123                        | 2.81            | 1 / 1          | 19.73                  | 22.54        | 0.180        | 33.01            | -10.47      |
|           | QPSK         | 1882.50         | H               | 205                 | 123                        | 2.65            | 1 / 1          | 19.98                  | 22.63        | 0.183        | 33.01            | -10.38      |
|           | QPSK         | 1907.50         | H               | 198                 | 125                        | 2.54            | 1 / 1          | 19.11                  | 21.66        | 0.146        | 33.01            | -11.35      |
|           | 16-QAM       | 1882.50         | H               | 205                 | 123                        | 2.65            | 1 / 1          | 18.65                  | 21.30        | 0.135        | 33.01            | -11.71      |
| 5 MHz     | $\pi/2$ BPSK | 1855.00         | H               | 205                 | 123                        | 2.82            | 1 / 1          | 19.73                  | 22.55        | 0.180        | 33.01            | -10.46      |
|           | $\pi/2$ BPSK | 1882.50         | H               | 205                 | 123                        | 2.65            | 1 / 1          | 20.12                  | <b>22.77</b> | 0.189        | 33.01            | -10.24      |
|           | $\pi/2$ BPSK | 1910.00         | H               | 198                 | 125                        | 2.55            | 1 / 1          | 19.30                  | 21.84        | 0.153        | 33.01            | -11.17      |
|           | QPSK         | 1855.00         | H               | 205                 | 123                        | 2.82            | 1 / 1          | 19.64                  | 22.47        | 0.177        | 33.01            | -10.54      |
|           | QPSK         | 1882.50         | H               | 205                 | 123                        | 2.65            | 1 / 1          | 19.86                  | 22.51        | 0.178        | 33.01            | -10.50      |
|           | QPSK         | 1910.00         | H               | 198                 | 125                        | 2.55            | 1 / 1          | 18.94                  | 21.49        | 0.141        | 33.01            | -11.52      |
| 5 MHz     | 16-QAM       | 1882.50         | H               | 205                 | 123                        | 2.65            | 1 / 1          | 19.05                  | 21.70        | 0.148        | 33.01            | -11.31      |
|           | $\pi/2$ BPSK | 1852.50         | H               | 205                 | 123                        | 2.84            | 1 / 23         | 19.66                  | 22.50        | 0.178        | 33.01            | -10.51      |
|           | $\pi/2$ BPSK | 1882.50         | H               | 205                 | 123                        | 2.65            | 1 / 1          | 20.21                  | <b>22.86</b> | 0.193        | 33.01            | -10.15      |
|           | $\pi/2$ BPSK | 1912.50         | H               | 198                 | 125                        | 2.55            | 1 / 1          | 19.26                  | 21.81        | 0.152        | 33.01            | -11.21      |
|           | QPSK         | 1852.50         | H               | 205                 | 123                        | 2.84            | 1 / 23         | 19.62                  | 22.46        | 0.176        | 33.01            | -10.55      |
|           | QPSK         | 1882.50         | H               | 205                 | 123                        | 2.65            | 1 / 1          | 19.77                  | 22.42        | 0.174        | 33.01            | -10.59      |
| 5 MHz     | QPSK         | 1912.50         | H               | 198                 | 125                        | 2.55            | 1 / 1          | 18.95                  | 21.49        | 0.141        | 33.01            | -11.52      |
|           | 16-QAM       | 1882.50         | H               | 205                 | 123                        | 2.65            | 1 / 1          | 18.81                  | 21.46        | 0.140        | 33.01            | -11.55      |

Table 7-19. EIRP Data (NR Band n25/2 – Ant1)

|                                         |                                      |                               |                                   |
|-----------------------------------------|--------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMS936U                      | PART 24 MEASUREMENT REPORT           |                               | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2408260064-02.A3L | Test Dates:<br>9/4/2024 - 10/10/2024 | EUT Type:<br>Portable Handset | Page 154 of 177                   |

| 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          | 1860.00         | H               | 228                 | 346                        | 2.79            | 1 / 0          | 19.66                  | <b>22.45</b> | 0.176        | 33.01            | -10.56      |
|           | QPSK          | 1882.50         | H               | 225                 | 344                        | 2.65            | 1 / 99         | 18.97                  | 21.62        | 0.145        | 33.01            | -11.39      |
|           | QPSK          | 1905.00         | H               | 221                 | 342                        | 2.54            | 1 / 50         | 18.86                  | 21.40        | 0.138        | 33.01            | -11.61      |
|           | 16-QAM        | 1860.00         | H               | 228                 | 346                        | 2.79            | 1 / 0          | 18.84                  | 21.63        | 0.146        | 33.01            | -11.38      |
| 15 MHz    | QPSK          | 1857.50         | H               | 228                 | 346                        | 2.81            | 1 / 74         | 19.65                  | <b>22.46</b> | 0.176        | 33.01            | -10.55      |
|           | QPSK          | 1882.50         | H               | 225                 | 344                        | 2.65            | 1 / 0          | 18.96                  | 21.60        | 0.145        | 33.01            | -11.41      |
|           | QPSK          | 1907.50         | H               | 221                 | 342                        | 2.54            | 1 / 0          | 18.72                  | 21.26        | 0.134        | 33.01            | -11.75      |
|           | 16-QAM        | 1857.50         | H               | 228                 | 346                        | 2.81            | 1 / 74         | 18.98                  | 21.79        | 0.151        | 33.01            | -11.22      |
| 10 MHz    | QPSK          | 1855.00         | H               | 228                 | 346                        | 2.82            | 1 / 0          | 19.48                  | <b>22.30</b> | 0.170        | 33.01            | -10.71      |
|           | QPSK          | 1882.50         | H               | 225                 | 344                        | 2.65            | 1 / 49         | 18.72                  | 21.37        | 0.137        | 33.01            | -11.64      |
|           | QPSK          | 1910.00         | H               | 221                 | 342                        | 2.55            | 1 / 25         | 18.60                  | 21.15        | 0.130        | 33.01            | -11.86      |
|           | 16-QAM        | 1855.00         | H               | 228                 | 346                        | 2.82            | 1 / 25         | 18.63                  | 21.46        | 0.140        | 33.01            | -11.56      |
| 5 MHz     | QPSK          | 1852.50         | H               | 228                 | 346                        | 2.84            | 1 / 0          | 19.69                  | <b>22.53</b> | 0.179        | 33.01            | -10.48      |
|           | QPSK          | 1882.50         | H               | 225                 | 344                        | 2.65            | 1 / 12         | 18.91                  | 21.56        | 0.143        | 33.01            | -11.45      |
|           | QPSK          | 1912.50         | H               | 221                 | 342                        | 2.55            | 1 / 24         | 18.78                  | 21.33        | 0.136        | 33.01            | -11.69      |
|           | 16-QAM        | 1852.50         | H               | 228                 | 346                        | 2.84            | 1 / 12         | 18.96                  | 21.80        | 0.151        | 33.01            | -11.21      |
| 3 MHz     | QPSK          | 1851.50         | H               | 228                 | 346                        | 2.85            | 1 / 7          | 19.49                  | <b>22.33</b> | 0.171        | 33.01            | -10.68      |
|           | QPSK          | 1882.50         | H               | 225                 | 344                        | 2.65            | 1 / 0          | 18.94                  | 21.59        | 0.144        | 33.01            | -11.42      |
|           | QPSK          | 1913.50         | H               | 221                 | 342                        | 2.55            | 1 / 14         | 18.67                  | 21.22        | 0.132        | 33.01            | -11.79      |
|           | 16-QAM        | 1851.50         | H               | 228                 | 346                        | 2.85            | 1 / 14         | 18.79                  | 21.64        | 0.146        | 33.01            | -11.37      |
| 1.4 MHz   | QPSK          | 1850.70         | H               | 228                 | 346                        | 2.85            | 1 / 0          | 19.53                  | <b>22.38</b> | 0.173        | 33.01            | -10.63      |
|           | QPSK          | 1882.50         | H               | 225                 | 344                        | 2.65            | 1 / 0          | 18.79                  | 21.44        | 0.139        | 33.01            | -11.57      |
|           | QPSK          | 1914.30         | H               | 221                 | 342                        | 2.55            | 1 / 5          | 18.47                  | 21.02        | 0.127        | 33.01            | -11.99      |
|           | 16-QAM        | 1850.70         | H               | 228                 | 346                        | 2.85            | 1 / 0          | 18.83                  | 21.68        | 0.147        | 33.01            | -11.33      |
| 20 MHz    | Opposite Pol. | 1860.00         | V               | 149                 | 318                        | 2.32            | 1 / 99         | 19.90                  | 22.22        | 0.167        | 33.01            | -10.79      |

Table 7-20. EIRP Data (LTE Band 25/2 – Ant2)

|                                         |                                      |                               |                                   |
|-----------------------------------------|--------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMS936U                      | PART 24 MEASUREMENT REPORT           |                               | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2408260064-02.A3L | Test Dates:<br>9/4/2024 - 10/10/2024 | EUT Type:<br>Portable Handset | Page 155 of 177                   |

| 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] |
|-----------|--------------|-----------------|-----------------|---------------------|----------------------------|-----------------|----------------|------------------------|--------------|--------------|------------------|-------------|
| 40 MHz    | $\pi/2$ BPSK | 1870.00         | H               | 182                 | 338                        | 2.73            | 1 / 108        | 20.30                  | <b>23.03</b> | 0.201        | 33.01            | -9.98       |
|           | $\pi/2$ BPSK | 1882.50         | H               | 179                 | 336                        | 2.65            | 1 / 1          | 20.03                  | 22.68        | 0.185        | 33.01            | -10.33      |
|           | $\pi/2$ BPSK | 1895.00         | H               | 182                 | 338                        | 2.57            | 1 / 1          | 19.74                  | 22.31        | 0.170        | 33.01            | -10.70      |
|           | QPSK         | 1870.00         | H               | 182                 | 338                        | 2.73            | 1 / 108        | 20.02                  | 22.75        | 0.188        | 33.01            | -10.26      |
|           | QPSK         | 1882.50         | H               | 179                 | 336                        | 2.65            | 1 / 1          | 19.48                  | 22.13        | 0.163        | 33.01            | -10.88      |
|           | QPSK         | 1895.00         | H               | 182                 | 338                        | 2.57            | 1 / 1          | 19.43                  | 22.00        | 0.159        | 33.01            | -11.01      |
| 35 MHz    | 16-QAM       | 1870.00         | H               | 182                 | 338                        | 2.73            | 1 / 108        | 19.02                  | 21.75        | 0.150        | 33.01            | -11.26      |
|           | $\pi/2$ BPSK | 1862.50         | H               | 182                 | 338                        | 2.76            | 1 / 158        | 20.41                  | <b>23.17</b> | 0.207        | 33.01            | -9.84       |
|           | $\pi/2$ BPSK | 1882.50         | H               | 179                 | 336                        | 2.65            | 1 / 80         | 20.09                  | 22.74        | 0.188        | 33.01            | -10.27      |
|           | $\pi/2$ BPSK | 1902.50         | H               | 182                 | 338                        | 2.54            | 1 / 1          | 19.83                  | 22.37        | 0.172        | 33.01            | -10.64      |
|           | QPSK         | 1862.50         | H               | 182                 | 338                        | 2.76            | 1 / 158        | 20.22                  | 22.98        | 0.199        | 33.01            | -10.03      |
|           | QPSK         | 1882.50         | H               | 179                 | 336                        | 2.65            | 1 / 80         | 19.50                  | 22.15        | 0.164        | 33.01            | -10.86      |
| 30 MHz    | QPSK         | 1902.50         | H               | 182                 | 338                        | 2.54            | 1 / 1          | 19.67                  | 22.20        | 0.166        | 33.01            | -10.81      |
|           | 16-QAM       | 1882.50         | H               | 179                 | 336                        | 2.65            | 1 / 80         | 18.56                  | 21.21        | 0.132        | 33.01            | -11.80      |
|           | $\pi/2$ BPSK | 1865.00         | H               | 182                 | 338                        | 2.76            | 1 / 80         | 20.24                  | 23.00        | 0.199        | 33.01            | -10.01      |
|           | $\pi/2$ BPSK | 1882.50         | H               | 179                 | 336                        | 2.65            | 1 / 80         | 20.20                  | 22.85        | 0.193        | 33.01            | -10.16      |
|           | $\pi/2$ BPSK | 1900.00         | H               | 182                 | 338                        | 2.54            | 1 / 80         | 19.95                  | 22.49        | 0.177        | 33.01            | -10.52      |
|           | QPSK         | 1865.00         | H               | 182                 | 338                        | 2.76            | 1 / 80         | 20.08                  | 22.84        | 0.192        | 33.01            | -10.17      |
| 25 MHz    | QPSK         | 1882.50         | H               | 179                 | 336                        | 2.65            | 1 / 80         | 19.16                  | 21.81        | 0.152        | 33.01            | -11.20      |
|           | QPSK         | 1900.00         | H               | 182                 | 338                        | 2.54            | 1 / 80         | 19.59                  | 22.12        | 0.163        | 33.01            | -10.89      |
|           | 16-QAM       | 1882.50         | H               | 179                 | 336                        | 2.65            | 1 / 80         | 19.09                  | 21.74        | 0.149        | 33.01            | -11.27      |
|           | $\pi/2$ BPSK | 1862.50         | H               | 182                 | 338                        | 2.78            | 1 / 66         | 20.32                  | <b>23.10</b> | 0.204        | 33.01            | -9.91       |
|           | $\pi/2$ BPSK | 1882.50         | H               | 179                 | 336                        | 2.65            | 1 / 66         | 20.15                  | 22.80        | 0.191        | 33.01            | -10.21      |
|           | $\pi/2$ BPSK | 1902.50         | H               | 182                 | 338                        | 2.54            | 1 / 1          | 19.98                  | 22.52        | 0.179        | 33.01            | -10.49      |
| 20 MHz    | QPSK         | 1862.50         | H               | 182                 | 338                        | 2.78            | 1 / 66         | 19.87                  | 22.65        | 0.184        | 33.01            | -10.36      |
|           | QPSK         | 1882.50         | H               | 179                 | 336                        | 2.65            | 1 / 66         | 19.33                  | 21.98        | 0.158        | 33.01            | -11.03      |
|           | QPSK         | 1902.50         | H               | 182                 | 338                        | 2.54            | 1 / 1          | 19.32                  | 21.86        | 0.154        | 33.01            | -11.15      |
|           | 16-QAM       | 1862.50         | H               | 182                 | 338                        | 2.78            | 1 / 66         | 18.89                  | 21.67        | 0.147        | 33.01            | -11.34      |
|           | $\pi/2$ BPSK | 1860.00         | H               | 182                 | 338                        | 2.79            | 1 / 104        | 20.21                  | 23.00        | 0.199        | 33.01            | -10.01      |
|           | $\pi/2$ BPSK | 1882.50         | H               | 179                 | 336                        | 2.65            | 1 / 53         | 20.25                  | 22.90        | 0.195        | 33.01            | -10.11      |
| 15 MHz    | $\pi/2$ BPSK | 1905.00         | H               | 182                 | 338                        | 2.54            | 1 / 1          | 19.75                  | 22.30        | 0.170        | 33.01            | -10.71      |
|           | QPSK         | 1860.00         | H               | 182                 | 338                        | 2.79            | 1 / 104        | 20.22                  | <b>23.01</b> | 0.200        | 33.01            | -10.00      |
|           | QPSK         | 1882.50         | H               | 179                 | 336                        | 2.65            | 1 / 53         | 19.40                  | 22.04        | 0.160        | 33.01            | -10.97      |
|           | QPSK         | 1905.00         | H               | 182                 | 338                        | 2.54            | 1 / 1          | 19.35                  | 21.89        | 0.155        | 33.01            | -11.12      |
|           | 16-QAM       | 1860.00         | H               | 182                 | 338                        | 2.79            | 1 / 104        | 19.21                  | 22.00        | 0.158        | 33.01            | -11.01      |
|           | $\pi/2$ BPSK | 1857.50         | H               | 182                 | 338                        | 2.81            | 1 / 77         | 19.93                  | 22.74        | 0.188        | 33.01            | -10.27      |
| 10 MHz    | $\pi/2$ BPSK | 1882.50         | H               | 179                 | 336                        | 2.65            | 1 / 39         | 20.11                  | 22.75        | 0.189        | 33.01            | -10.26      |
|           | $\pi/2$ BPSK | 1907.50         | H               | 182                 | 338                        | 2.54            | 1 / 1          | 19.75                  | 22.29        | 0.170        | 33.01            | -10.72      |
|           | QPSK         | 1857.50         | H               | 182                 | 338                        | 2.81            | 1 / 77         | 19.98                  | <b>22.79</b> | 0.190        | 33.01            | -10.22      |
|           | QPSK         | 1882.50         | H               | 179                 | 336                        | 2.65            | 1 / 39         | 19.46                  | 22.11        | 0.163        | 33.01            | -10.90      |
|           | QPSK         | 1907.50         | H               | 182                 | 338                        | 2.54            | 1 / 1          | 19.76                  | 22.31        | 0.170        | 33.01            | -10.70      |
|           | 16-QAM       | 1857.50         | H               | 182                 | 338                        | 2.81            | 1 / 77         | 18.94                  | 21.75        | 0.150        | 33.01            | -11.26      |
| 5 MHz     | $\pi/2$ BPSK | 1855.00         | H               | 182                 | 338                        | 2.82            | 1 / 1          | 20.03                  | 22.86        | 0.193        | 33.01            | -10.15      |
|           | $\pi/2$ BPSK | 1882.50         | H               | 179                 | 336                        | 2.65            | 1 / 26         | 20.29                  | <b>22.94</b> | 0.197        | 33.01            | -10.07      |
|           | $\pi/2$ BPSK | 1910.00         | H               | 182                 | 338                        | 2.55            | 1 / 1          | 19.60                  | 22.15        | 0.164        | 33.01            | -10.86      |
|           | QPSK         | 1855.00         | H               | 182                 | 338                        | 2.82            | 1 / 1          | 20.02                  | 22.84        | 0.192        | 33.01            | -10.17      |
|           | QPSK         | 1882.50         | H               | 179                 | 336                        | 2.65            | 1 / 26         | 19.40                  | 22.05        | 0.160        | 33.01            | -10.96      |
|           | QPSK         | 1910.00         | H               | 182                 | 338                        | 2.55            | 1 / 1          | 19.22                  | 21.77        | 0.150        | 33.01            | -11.24      |
| 5 MHz     | 16-QAM       | 1855.00         | H               | 182                 | 338                        | 2.82            | 1 / 1          | 19.03                  | 21.85        | 0.153        | 33.01            | -11.16      |
|           | $\pi/2$ BPSK | 1852.50         | H               | 182                 | 338                        | 2.84            | 1 / 12         | 20.01                  | 22.86        | 0.193        | 33.01            | -10.15      |
|           | $\pi/2$ BPSK | 1882.50         | H               | 179                 | 336                        | 2.65            | 1 / 12         | 20.31                  | <b>22.96</b> | 0.198        | 33.01            | -10.05      |
|           | $\pi/2$ BPSK | 1912.50         | H               | 182                 | 338                        | 2.55            | 1 / 12         | 19.46                  | 22.01        | 0.159        | 33.01            | -11.00      |
|           | QPSK         | 1852.50         | H               | 182                 | 338                        | 2.84            | 1 / 12         | 19.86                  | 22.70        | 0.186        | 33.01            | -10.31      |
|           | QPSK         | 1882.50         | H               | 179                 | 336                        | 2.65            | 1 / 12         | 19.44                  | 22.09        | 0.162        | 33.01            | -10.92      |
| 5 MHz     | QPSK         | 1912.50         | H               | 182                 | 338                        | 2.55            | 1 / 12         | 18.53                  | 21.08        | 0.128        | 33.01            | -11.93      |
|           | 16-QAM       | 1852.50         | H               | 182                 | 338                        | 2.84            | 1 / 12         | 19.36                  | 22.20        | 0.166        | 33.01            | -10.81      |

Table 7-21. EIRP Data (NR Band n25/2 – Ant2)

|                                         |                                      |                               |                                   |
|-----------------------------------------|--------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMS936U                      | PART 24 MEASUREMENT REPORT           |                               | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2408260064-02.A3L | Test Dates:<br>9/4/2024 - 10/10/2024 | EUT Type:<br>Portable Handset | Page 156 of 177                   |

## 7.8 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

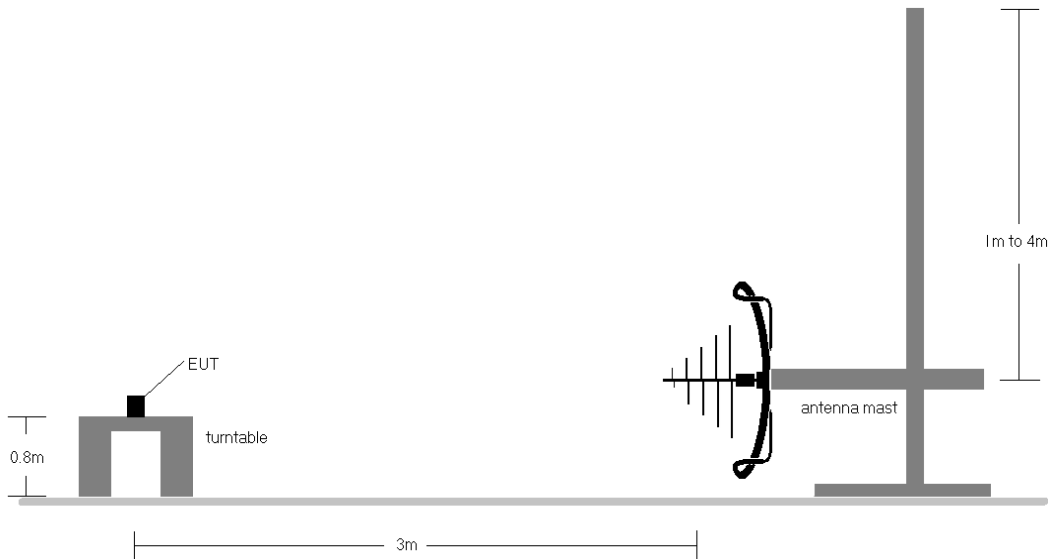
### Test Settings

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

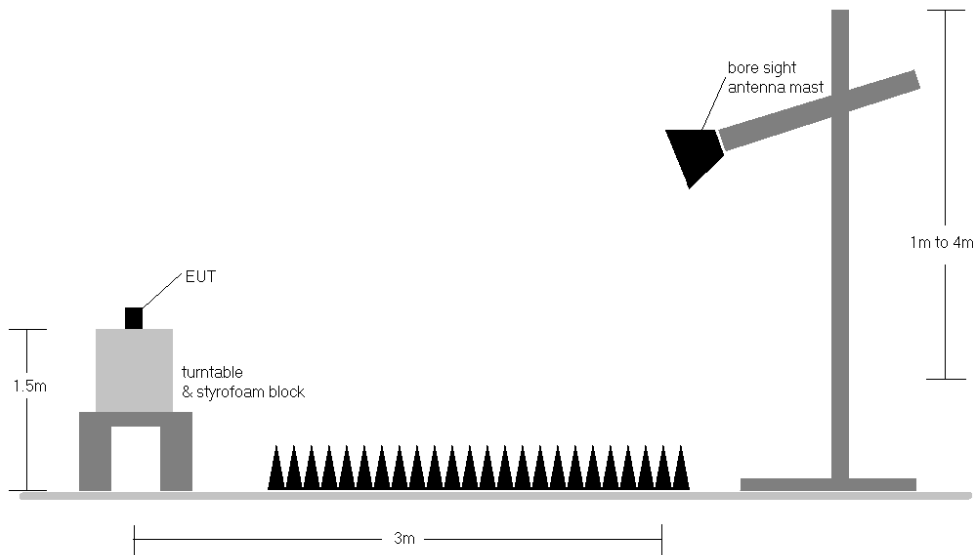
|                                         |                                      |                               |                                   |
|-----------------------------------------|--------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMS936U                      | PART 24 MEASUREMENT REPORT           |                               | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2408260064-02.A3L | Test Dates:<br>9/4/2024 - 10/10/2024 | EUT Type:<br>Portable Handset | Page 157 of 177                   |

**Test Setup**

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



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



**Figure 7-8. Test Instrument & Measurement Setup >1 GHz**

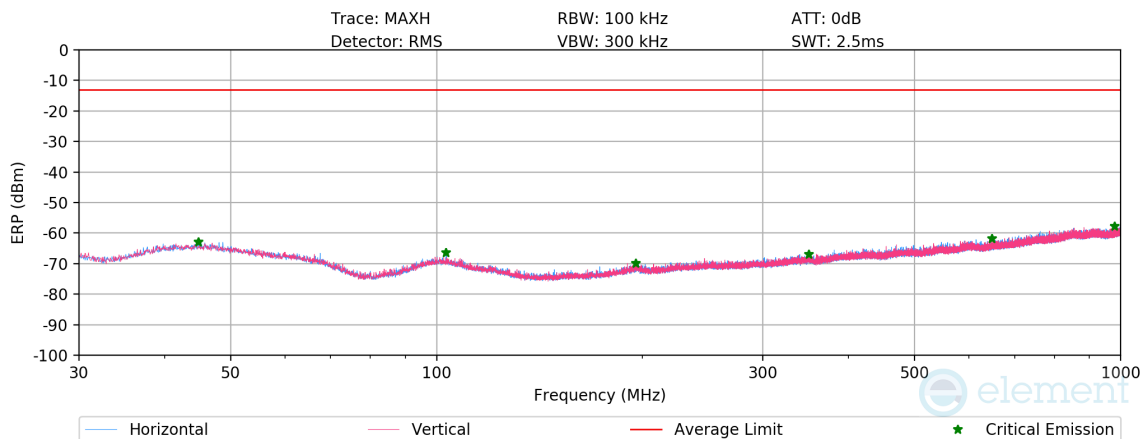
|                                         |                                      |                               |                                   |
|-----------------------------------------|--------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMS936U                      | PART 24 MEASUREMENT REPORT           |                               | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2408260064-02.A3L | Test Dates:<br>9/4/2024 - 10/10/2024 | EUT Type:<br>Portable Handset | Page 158 of 177                   |

## Test Notes

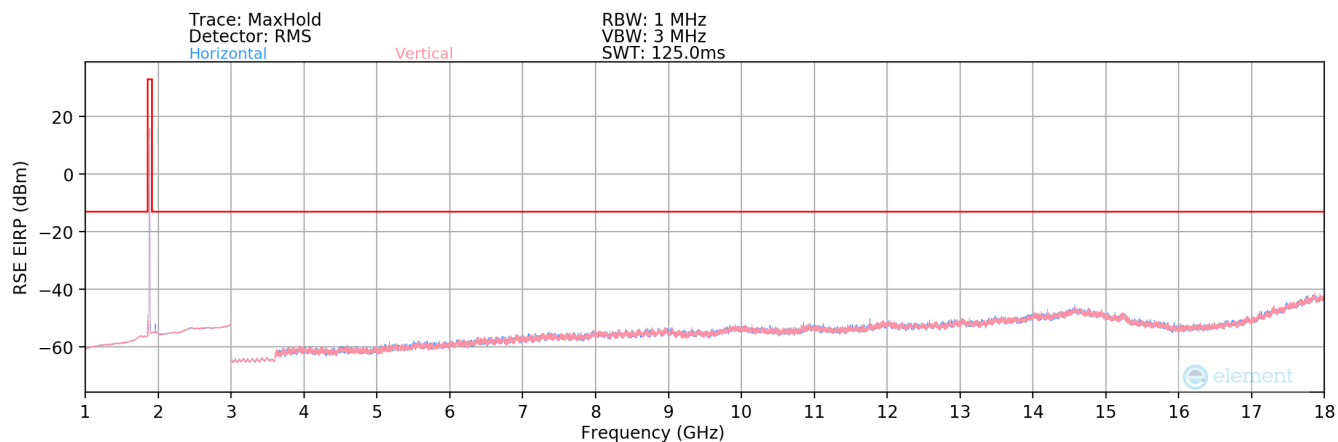
- 1) Field strengths are calculated using the Measurement quantity conversions in ANSI C63.26-2015 Section 5.2.7:
  - a)  $E(\text{dB}\mu\text{V/m}) = \text{Measured amplitude level (dBm)} + 107 + \text{Cable Loss (dB)} + \text{Antenna Factor (dB/m)}$
  - b)  $\text{EIRP (dBm)} = E(\text{dB}\mu\text{V/m}) + 20\log D - 104.8$ ; where D is the measurement distance in meters.
- 2) This device employs GSM, GPRS, and EDGE capabilities. The EUT was tested under all configurations and the highest powers are reported in GPRS mode while transmitting with one slot active.
- 3) This device employs UMTS technology with WCDMA (AMR/RMC) and HSDPA capabilities. The EUT was tested under all configurations and the highest powers are reported in WCDMA mode with HSDPA Inactive at 12.2 kbps RMC and TPC bits all set to "1".
- 4) 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.
- 5) This unit was tested with its standard battery.
- 6) The spectrum is measured from 9kHz to the 10th harmonic of the fundamental frequency of the transmitter. The worst-case emissions are reported.
- 7) 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.
- 8) The "-" shown in the following RSE tables are used to denote a noise floor measurement.
- 9) 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.
- 10) Spurious emissions shown in this section are measured while operating in EN-DC mode with Sub 6GHz NR carrier as well as an LTE carrier (anchor). 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: A3LSMS936U                      | PART 24 MEASUREMENT REPORT           |                               | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2408260064-02.A3L | Test Dates:<br>9/4/2024 - 10/10/2024 | EUT Type:<br>Portable Handset | Page 159 of 177                   |

## GSM/GPRS PCS – Ant1



**Plot 7-237. Radiated Spurious Plot (GPRS PCS - Ant1)**



**Plot 7-238. Radiated Spurious Plot (GPRS PCS - Ant1)**

|                  |                |
|------------------|----------------|
| Mode:            | GPRS 1 Tx Slot |
| Channel:         | 661            |
| Frequency (MHz): | 1880           |

| 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] |
|-----------------|-----------------|---------------------|----------------------------|----------------------|-------------|-------------------------|------------------------------------|-------------|-------------|
| 1               | H               | -                   | -                          | -70.82               | -1.38       | 34.80                   | -62.96                             | -13.00      | -49.96      |
| 2               | H               | -                   | -                          | -72.49               | -3.18       | 31.33                   | -66.43                             | -13.00      | -53.43      |
| 3               | V               | -                   | -                          | -76.49               | -2.65       | 27.86                   | -69.89                             | -13.00      | -56.89      |
| 7               | V               | -                   | -                          | -77.73               | 1.53        | 30.80                   | -66.96                             | -13.00      | -53.96      |
| 7               | V               | -                   | -                          | -78.09               | 7.16        | 36.07                   | -61.69                             | -13.00      | -48.69      |
| 2               | V               | -                   | -                          | -78.97               | 12.02       | 40.05                   | -57.71                             | -13.00      | -44.71      |

**Table 7-22. Radiated Spurious Data (GPRS PCS – Mid Channel - Ant1)**

|                                         |                                      |                               |                                   |
|-----------------------------------------|--------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMS936U                      | PART 24 MEASUREMENT REPORT           |                               | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2408260064-02.A3L | Test Dates:<br>9/4/2024 - 10/10/2024 | EUT Type:<br>Portable Handset | Page 160 of 177                   |

|                  |                |
|------------------|----------------|
| Mode:            | GPRS 1 Tx Slot |
| Channel:         | 512            |
| Frequency (MHz): | 1850.2         |

| 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] |
|-----------------|-----------------|---------------------|----------------------------|----------------------|-------------|-------------------------|------------------------------------|-------------|-------------|
| 4               | V               | -                   | -                          | -80.87               | 6.93        | 33.05                   | -62.20                             | -13.00      | -49.20      |
| 6               | V               | -                   | -                          | -82.85               | 11.37       | 35.52                   | -59.74                             | -13.00      | -46.74      |
| 8               | V               | -                   | -                          | -83.16               | 13.64       | 37.48                   | -57.77                             | -13.00      | -44.77      |

**Table 7-23. Radiated Spurious Data (GPRS PCS – Low Channel - Ant1)**

|                  |                |
|------------------|----------------|
| Mode:            | GPRS 1 Tx Slot |
| Channel:         | 661            |
| Frequency (MHz): | 1880           |

| 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] |
|-----------------|-----------------|---------------------|----------------------------|----------------------|-------------|-------------------------|------------------------------------|-------------|-------------|
| 0               | H               | -                   | -                          | -81.11               | 7.24        | 33.13                   | -62.13                             | -13.00      | -49.13      |
| 0               | H               | 253                 | 33                         | -82.63               | 11.46       | 35.83                   | -59.43                             | -13.00      | -46.43      |
| 0               | H               | -                   | -                          | -83.15               | 13.89       | 37.73                   | -57.53                             | -13.00      | -44.53      |
| 0               | V               | -                   | -                          | -83.44               | 15.78       | 39.34                   | -55.92                             | -13.00      | -42.92      |
| .0              | V               | -                   | -                          | -84.80               | 19.80       | 42.00                   | -53.26                             | -13.00      | -40.26      |

**Table 7-24. Radiated Spurious Data (GPRS PCS – Mid Channel - Ant1)**

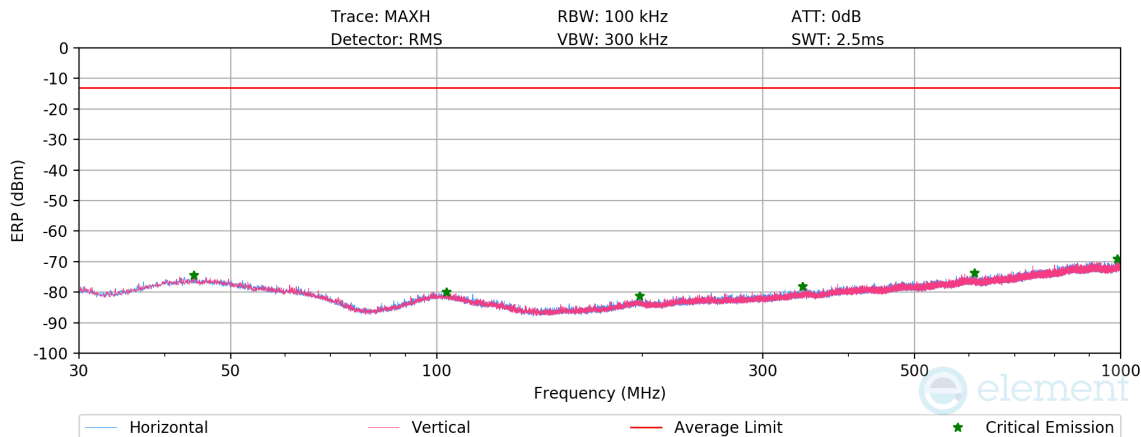
|                  |                |
|------------------|----------------|
| Mode:            | GPRS 1 Tx Slot |
| Channel:         | 810            |
| Frequency (MHz): | 1909.8         |

| 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] |
|-----------------|-----------------|---------------------|----------------------------|----------------------|-------------|-------------------------|------------------------------------|-------------|-------------|
| 6               | V               | -                   | -                          | -80.89               | 7.26        | 33.37                   | -61.89                             | -13.00      | -48.89      |
| 4               | V               | -                   | -                          | -83.05               | 11.83       | 35.78                   | -59.47                             | -13.00      | -46.47      |
| 2               | V               | -                   | -                          | -83.13               | 13.64       | 37.51                   | -57.74                             | -13.00      | -44.74      |

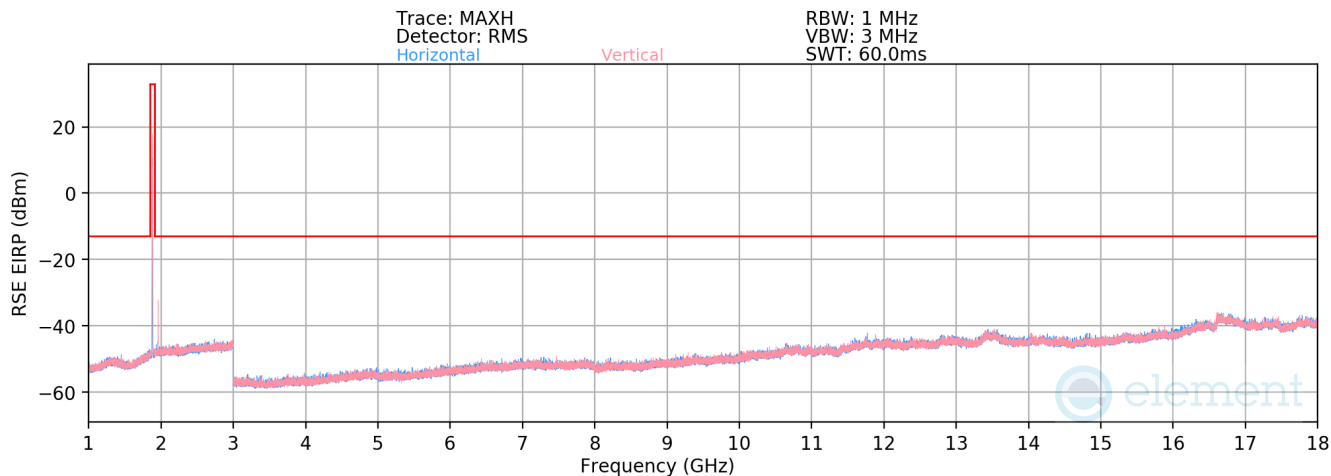
**Table 7-25. Radiated Spurious Data (GPRS PCS – High Channel - Ant1)**

|                                         |                                      |                               |                                   |
|-----------------------------------------|--------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMS936U                      | PART 24 MEASUREMENT REPORT           |                               | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2408260064-02.A3L | Test Dates:<br>9/4/2024 - 10/10/2024 | EUT Type:<br>Portable Handset | Page 161 of 177                   |

## WCDMA PCS – Ant1



**Plot 7-239. Radiated Spurious Plot (WCDMA PCS - Ant1)**



**Plot 7-240. Radiated Spurious Plot (WCDMA PCS - Ant1)**

|                  |           |
|------------------|-----------|
| Mode:            | WCDMA RMC |
| Channel:         | 9262      |
| Frequency (MHz): | 1852.4    |

| 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] |
|-----------------|-----------------|---------------------|----------------------------|----------------------|-------------|-------------------------|------------------------------------|-------------|-------------|
| 8               | V               | -                   | -                          | -80.83               | 6.89        | 33.05                   | -62.21                             | -13.00      | -49.21      |
| 2               | V               | -                   | -                          | -82.27               | 11.17       | 35.91                   | -59.35                             | -13.00      | -46.35      |
| 6               | V               | -                   | -                          | -83.36               | 13.83       | 37.47                   | -57.78                             | -13.00      | -44.78      |

**Table 7-26. Radiated Spurious Data (WCDMA PCS – Low Channel - Ant1)**

|                                         |                                      |                               |  |                                   |
|-----------------------------------------|--------------------------------------|-------------------------------|--|-----------------------------------|
| FCC ID: A3LSMS936U                      | PART 24 MEASUREMENT REPORT           |                               |  | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2408260064-02.A3L | Test Dates:<br>9/4/2024 - 10/10/2024 | EUT Type:<br>Portable Handset |  | Page 162 of 177                   |

|                  |           |
|------------------|-----------|
| Mode:            | WCDMA RMC |
| Channel:         | 9400      |
| Frequency (MHz): | 1880      |

| 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] |
|-----------------|-----------------|---------------------|----------------------------|----------------------|-------------|-------------------------|------------------------------------|-------------|-------------|
| 0               | V               | -                   | -                          | -80.99               | 7.24        | 33.25                   | -62.00                             | -13.00      | -49.00      |
| 0               | V               | -                   | -                          | -82.99               | 11.69       | 35.70                   | -59.55                             | -13.00      | -46.55      |
| 0               | V               | -                   | -                          | -83.07               | 13.89       | 37.82                   | -57.44                             | -13.00      | -44.44      |

**Table 7-27. Radiated Spurious Data (WCDMA PCS – Mid Channel - Ant1)**

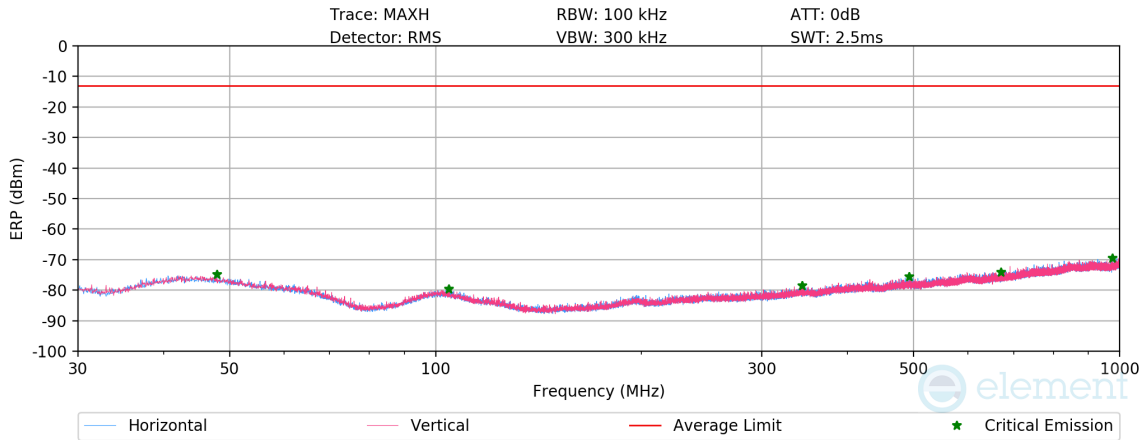
|                  |           |
|------------------|-----------|
| Mode:            | WCDMA RMC |
| Channel:         | 9538      |
| Frequency (MHz): | 1907.6    |

| 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] |
|-----------------|-----------------|---------------------|----------------------------|----------------------|-------------|-------------------------|------------------------------------|-------------|-------------|
| 2               | V               | -                   | -                          | -80.98               | 7.07        | 33.09                   | -62.17                             | -13.00      | -49.17      |
| 8               | V               | -                   | -                          | -83.01               | 11.70       | 35.70                   | -59.56                             | -13.00      | -46.56      |
| 4               | V               | -                   | -                          | -83.26               | 13.74       | 37.47                   | -57.78                             | -13.00      | -44.78      |

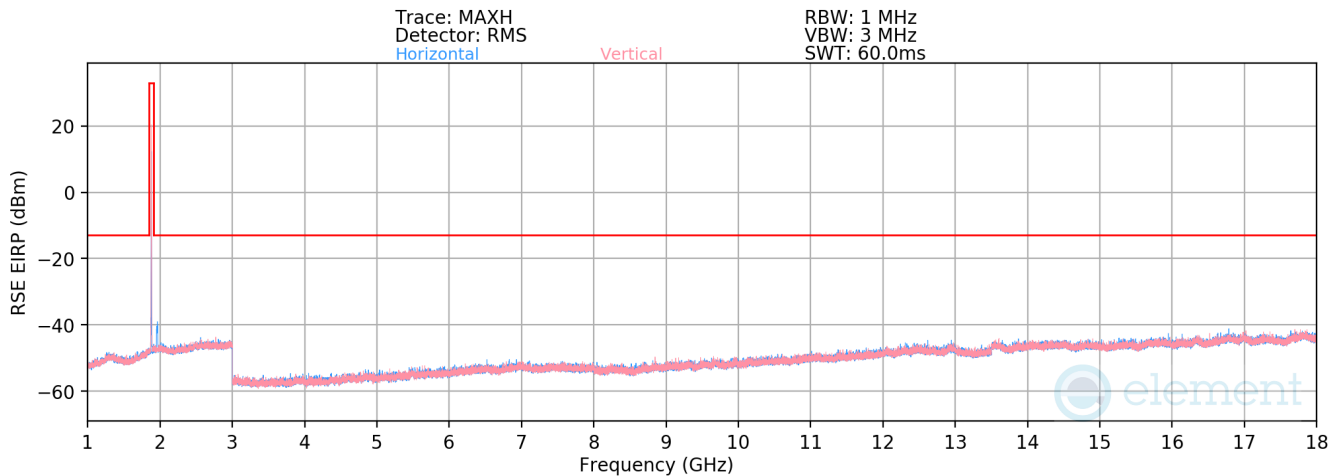
**Table 7-28. Radiated Spurious Data (WCDMA PCS – High Channel - Ant1)**

|                                         |                                      |                               |                                   |
|-----------------------------------------|--------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMS936U                      | PART 24 MEASUREMENT REPORT           |                               | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2408260064-02.A3L | Test Dates:<br>9/4/2024 - 10/10/2024 | EUT Type:<br>Portable Handset | Page 163 of 177                   |

## LTE Band 25/2 – Ant1



**Plot 7-241. Radiated Spurious Plot (LTE Band 25/2 - Ant1)**



**Plot 7-242. Radiated Spurious Plot (LTE Band 25/2 - Ant1)**

|                  |        |
|------------------|--------|
| Bandwidth (MHz): | 20     |
| Frequency (MHz): | 1882.5 |
| 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] |
|-----------------|-----------------|---------------------|----------------------------|----------------------|-------------|-------------------------|------------------------------------|-------------|-------------|
| 51.6            | V               | -                   | -                          | -71.41               | -12.97      | 22.62                   | -74.79                             | -13.00      | -61.79      |
| 191.7           | V               | -                   | -                          | -73.94               | -15.21      | 17.86                   | -79.55                             | -13.00      | -66.55      |
| 345.8           | H               | -                   | -                          | -77.51               | -10.60      | 18.89                   | -78.52                             | -13.00      | -65.52      |
| 492.2           | H               | -                   | -                          | -77.42               | -7.71       | 21.88                   | -75.53                             | -13.00      | -62.53      |
| 603.9           | H               | -                   | -                          | -79.12               | -4.52       | 23.36                   | -74.05                             | -13.00      | -61.05      |
| 930.0           | V               | -                   | -                          | -79.01               | -0.14       | 27.85                   | -69.55                             | -13.00      | -56.55      |

**Table 7-29. Radiated Spurious Data (LTE Band 25/2 – Mid Channel - Ant1)**

|                                         |                                      |                               |  |                                   |
|-----------------------------------------|--------------------------------------|-------------------------------|--|-----------------------------------|
| FCC ID: A3LSMS936U                      | PART 24 MEASUREMENT REPORT           |                               |  | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2408260064-02.A3L | Test Dates:<br>9/4/2024 - 10/10/2024 | EUT Type:<br>Portable Handset |  | Page 164 of 177                   |

|                  |        |
|------------------|--------|
| Bandwidth (MHz): | 20     |
| Frequency (MHz): | 1860.0 |
| 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] |
|-----------------|-----------------|---------------------|----------------------------|----------------------|-------------|-------------------------|------------------------------------|-------------|-------------|
| 3720.0          | V               | -                   | -                          | -79.40               | 7.04        | 34.64                   | -60.62                             | -13.00      | -47.62      |
| 5580.0          | H               | -                   | -                          | -81.32               | 11.63       | 37.31                   | -57.95                             | -13.00      | -44.95      |
| 7440.0          | V               | -                   | -                          | -81.76               | 13.63       | 38.86                   | -56.39                             | -13.00      | -43.39      |

**Table 7-30. Radiated Spurious Data (LTE Band 25/2 – Low Channel - Ant1)**

|                  |        |
|------------------|--------|
| Bandwidth (MHz): | 20     |
| Frequency (MHz): | 1882.5 |
| 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] |
|-----------------|-----------------|---------------------|----------------------------|----------------------|-------------|-------------------------|------------------------------------|-------------|-------------|
| 3765.0          | -               | -                   | -                          | -79.44               | 5.25        | 32.81                   | -62.45                             | -13.00      | -49.45      |
| 5647.5          | -               | -                   | -                          | -81.28               | 9.21        | 34.93                   | -60.33                             | -13.00      | -47.33      |
| 7530.0          | -               | -                   | -                          | -81.42               | 10.88       | 36.46                   | -58.80                             | -13.00      | -45.80      |

**Table 7-31. Radiated Spurious Data (LTE Band 25/2 – Mid Channel - Ant1)**

|                  |        |
|------------------|--------|
| Bandwidth (MHz): | 20     |
| Frequency (MHz): | 1905.0 |
| 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] |
|-----------------|-----------------|---------------------|----------------------------|----------------------|-------------|-------------------------|------------------------------------|-------------|-------------|
| 3810.00         | H               | -                   | -                          | -79.52               | 7.06        | 34.54                   | -60.71                             | -13.00      | -47.71      |
| 5715.00         | H               | -                   | -                          | -81.09               | 11.64       | 37.55                   | -57.70                             | -13.00      | -44.70      |
| 7620.00         | H               | -                   | -                          | -81.70               | 13.69       | 38.99                   | -56.26                             | -13.00      | -43.26      |

**Table 7-32. Radiated Spurious Data (LTE Band 25/2 – High Channel - Ant1)**

|                                         |                                      |                               |                                   |
|-----------------------------------------|--------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMS936U                      | PART 24 MEASUREMENT REPORT           |                               | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2408260064-02.A3L | Test Dates:<br>9/4/2024 - 10/10/2024 | EUT Type:<br>Portable Handset | Page 165 of 177                   |