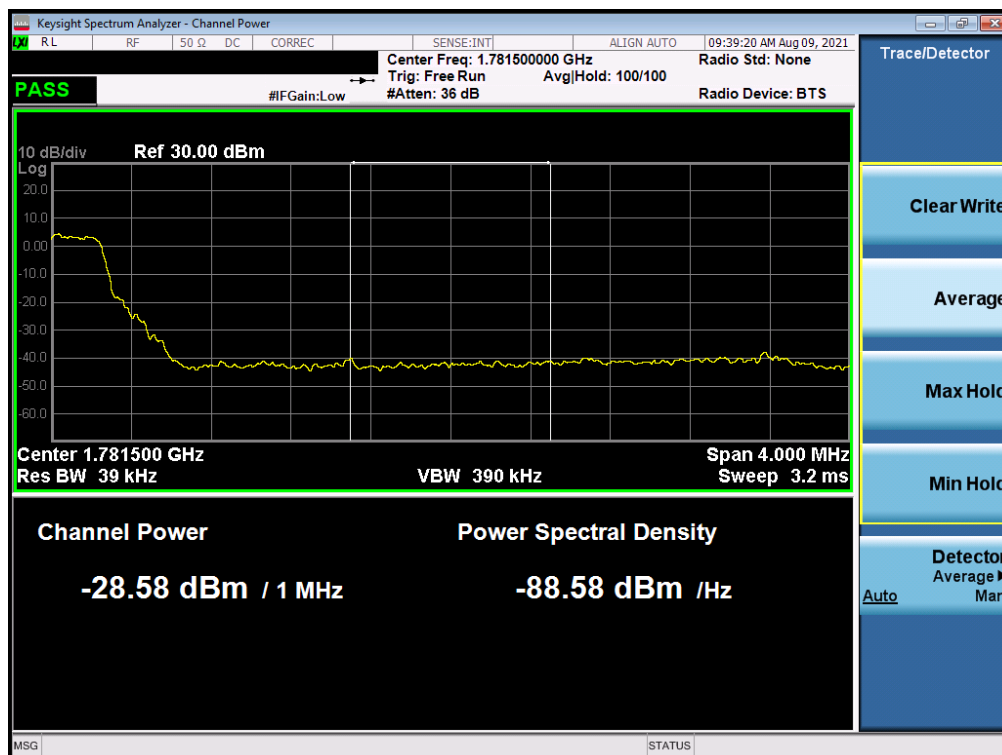
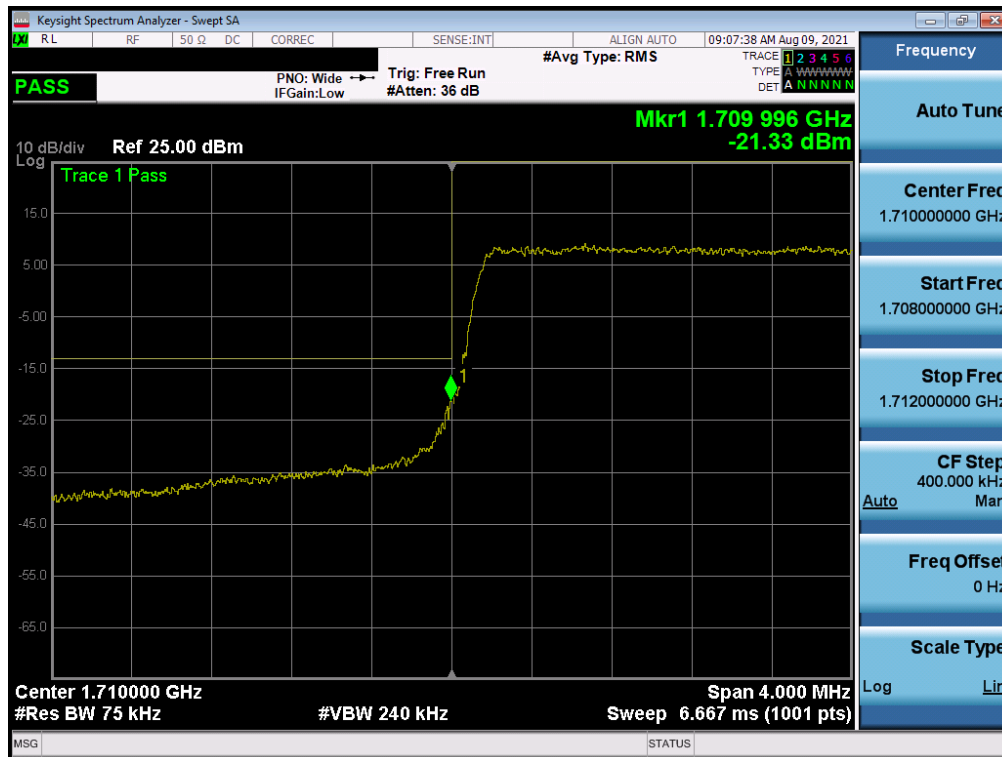


Plot 7-180. Upper Band Edge Plot (LTE Band 66 - 5MHz QPSK – Full RB - Main Ant)

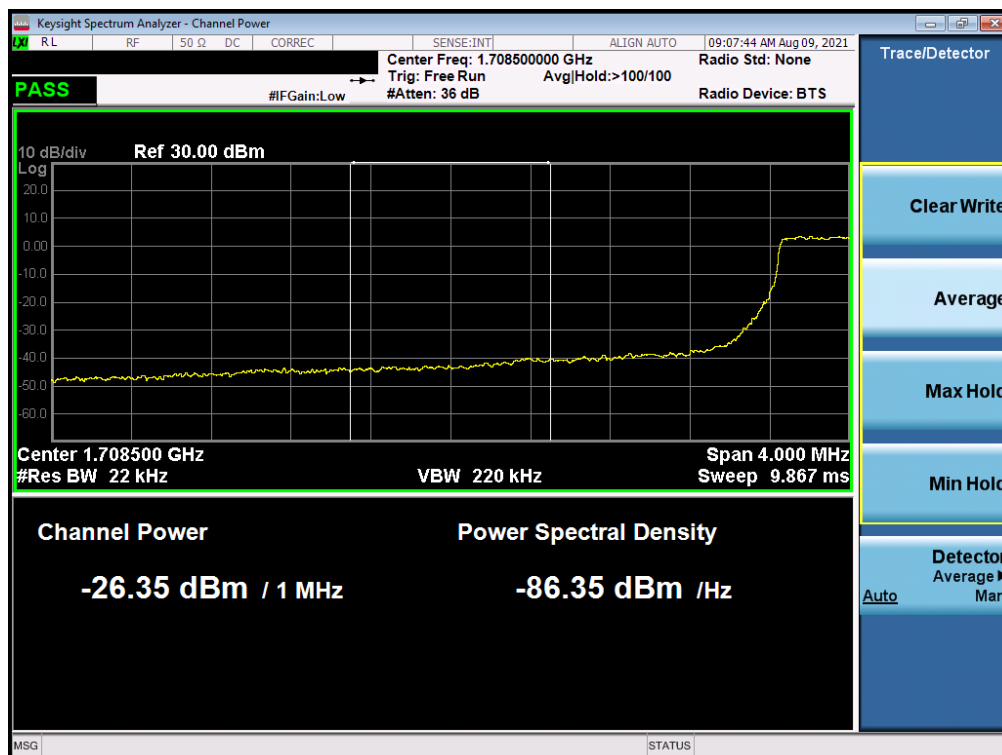


Plot 7-181. Upper Extended Band Edge Plot (LTE Band 66 - 5MHz QPSK – Full RB - Main Ant)

| | | | | |
|---|--|-------------------------------|-------------|-----------------------------------|
| FCC ID: PY7-95324M | PCTEST Proud to be part of element | PART 27 MEASUREMENT REPORT | SONY | Approved by: Technical Manager |
| Test Report S/N: 1M2108040087-04.PY7 | Test Dates: 8/2 – 9/23/2021 | EUT Type: Portable Handset | | Page 110 of 173 |

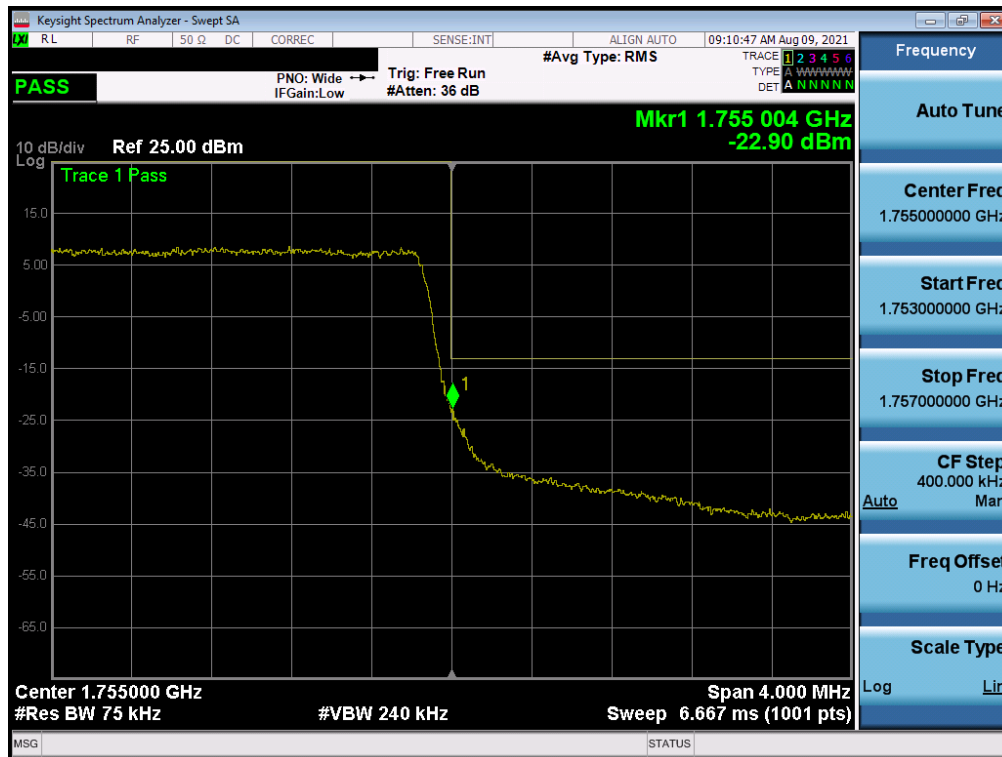


Plot 7-182. Lower Band Edge Plot (LTE Band 66/4 - 3MHz QPSK – Full RB - Main Ant)

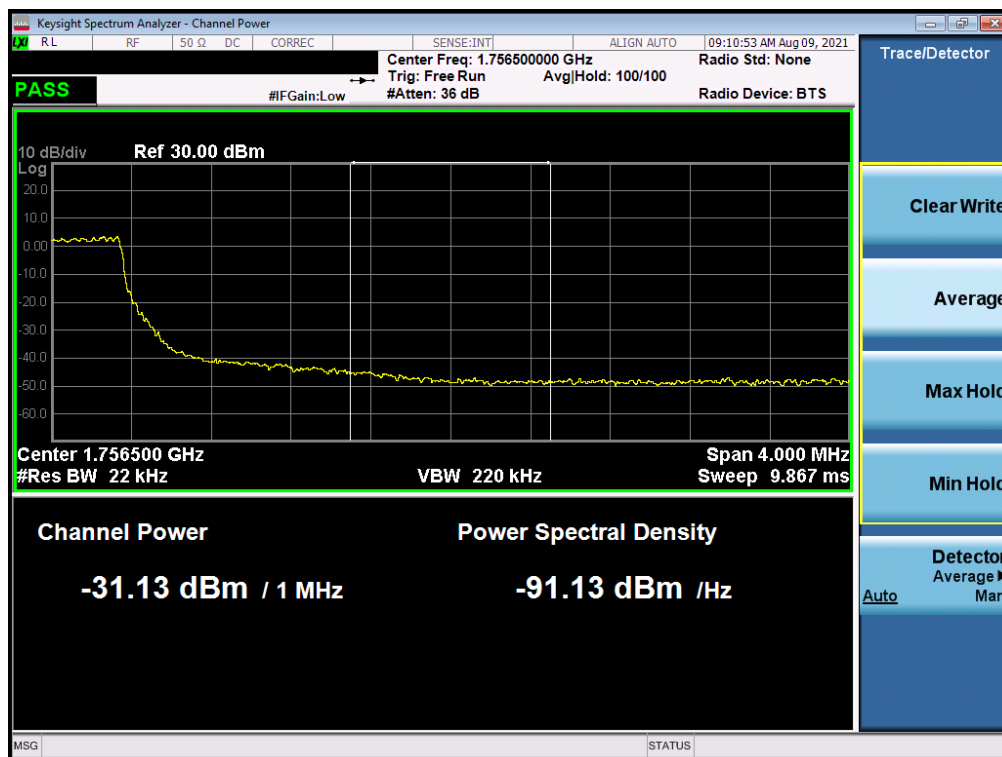


Plot 7-183. Lower Extended Band Edge Plot (LTE Band 66/4 - 3MHz QPSK – Full RB - Main Ant)

| | | | | |
|---|--|-------------------------------|-------------|-----------------------------------|
| FCC ID: PY7-95324M | PCTEST Proud to be part of element | PART 27 MEASUREMENT REPORT | SONY | Approved by: Technical Manager |
| Test Report S/N: 1M2108040087-04.PY7 | Test Dates: 8/2 – 9/23/2021 | EUT Type: Portable Handset | | Page 111 of 173 |

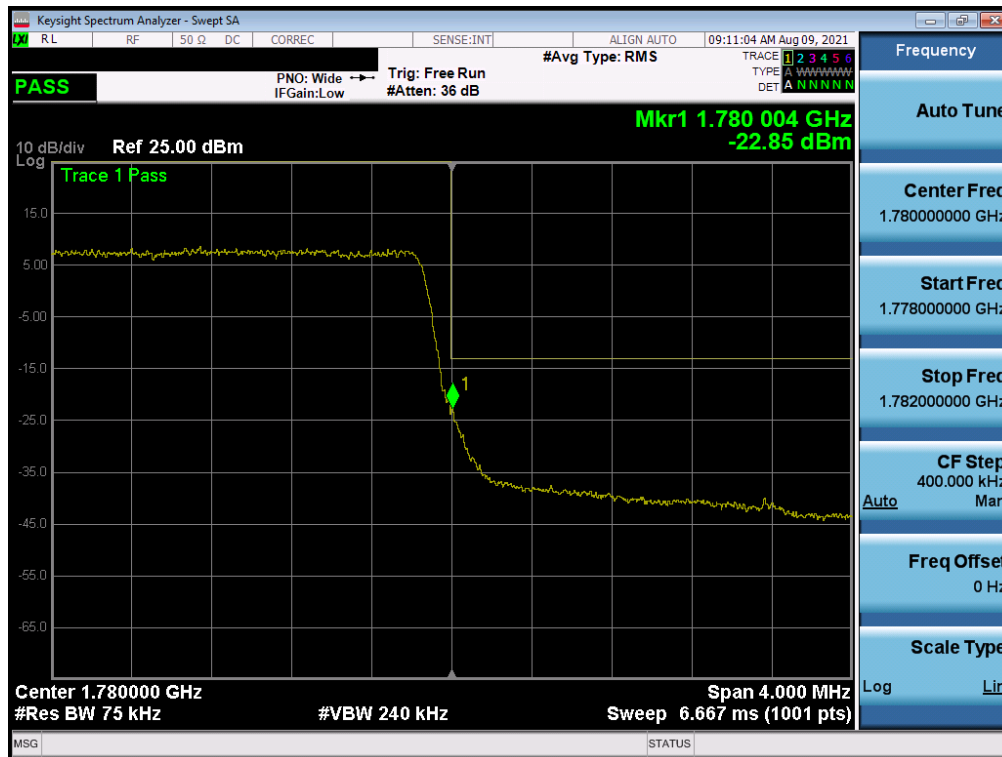


Plot 7-184. Upper Band Edge Plot (LTE Band 4 - 3MHz QPSK – Full RB - Main Ant)

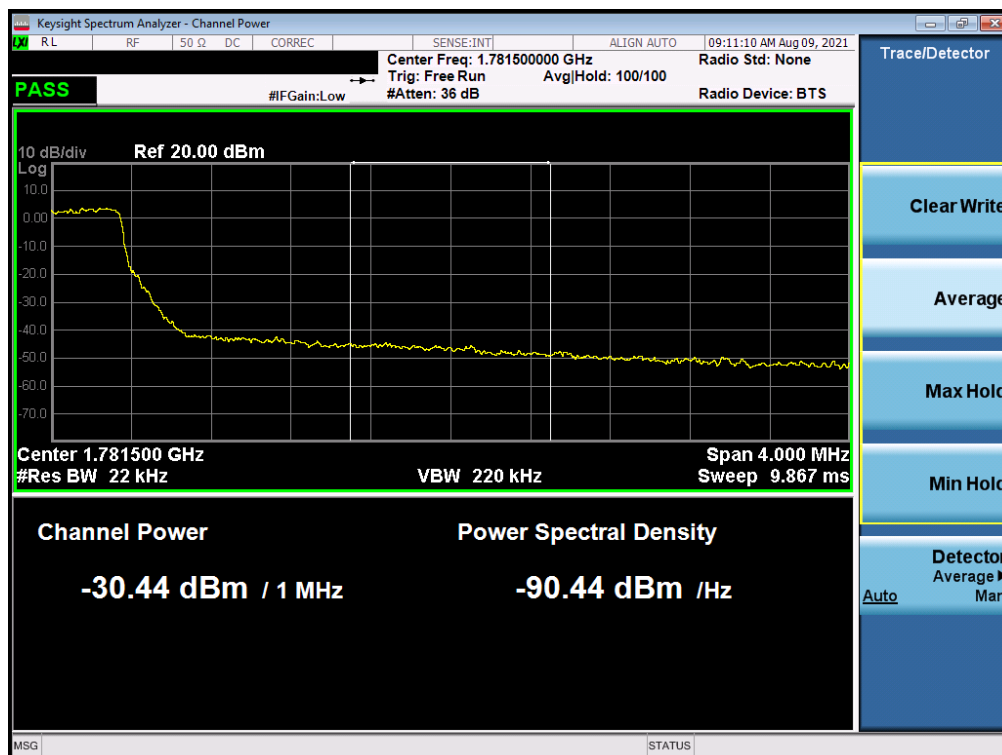


Plot 7-185. Upper Extended Band Edge Plot (LTE Band 4 - 3MHz QPSK – Full RB - Main Ant)

| | | | | |
|---|--|-------------------------------|-------------|-----------------------------------|
| FCC ID: PY7-95324M | PCTEST Proud to be part of element | PART 27 MEASUREMENT REPORT | SONY | Approved by: Technical Manager |
| Test Report S/N: 1M2108040087-04.PY7 | Test Dates: 8/2 – 9/23/2021 | EUT Type: Portable Handset | | Page 112 of 173 |

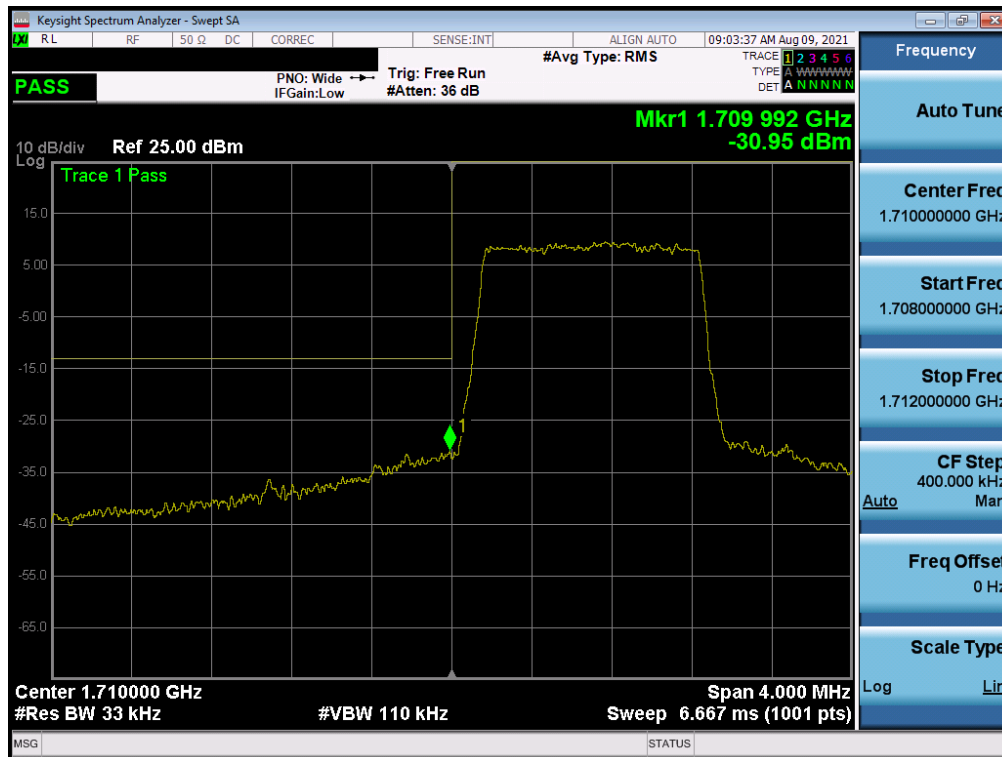


Plot 7-186. Upper Band Edge Plot (LTE Band 66 - 3MHz QPSK – Full RB - Main Ant)

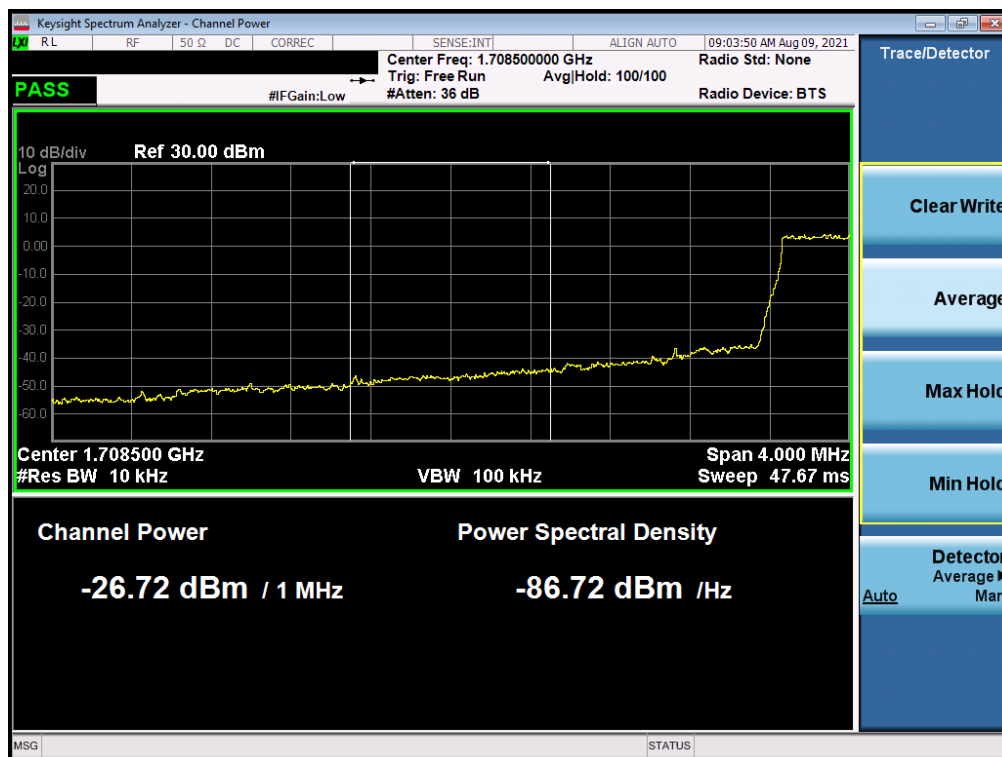


Plot 7-187. Upper Extended Band Edge Plot (LTE Band 66 - 3MHz QPSK – Full RB - Main Ant)

| | | | | |
|---|--|-------------------------------|-------------|-----------------------------------|
| FCC ID: PY7-95324M | PCTEST Proud to be part of element | PART 27 MEASUREMENT REPORT | SONY | Approved by: Technical Manager |
| Test Report S/N: 1M2108040087-04.PY7 | Test Dates: 8/2 – 9/23/2021 | EUT Type: Portable Handset | | Page 113 of 173 |

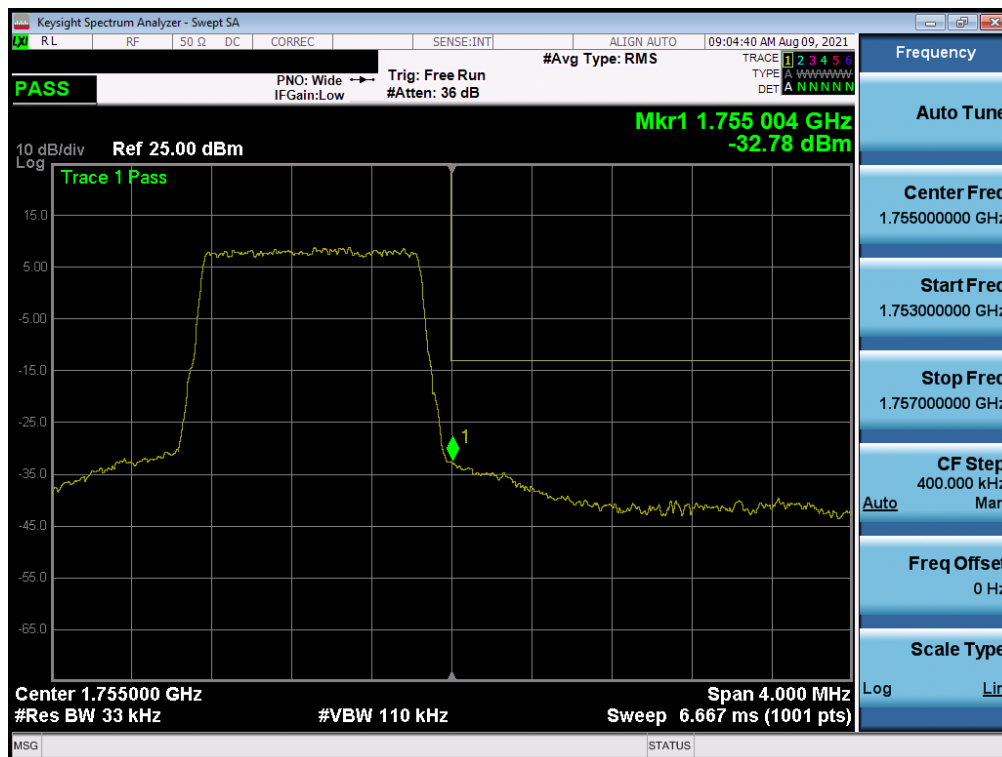


Plot 7-188. Lower Band Edge Plot (LTE Band 66/4 – 1.4MHz QPSK – Full RB - Main Ant)

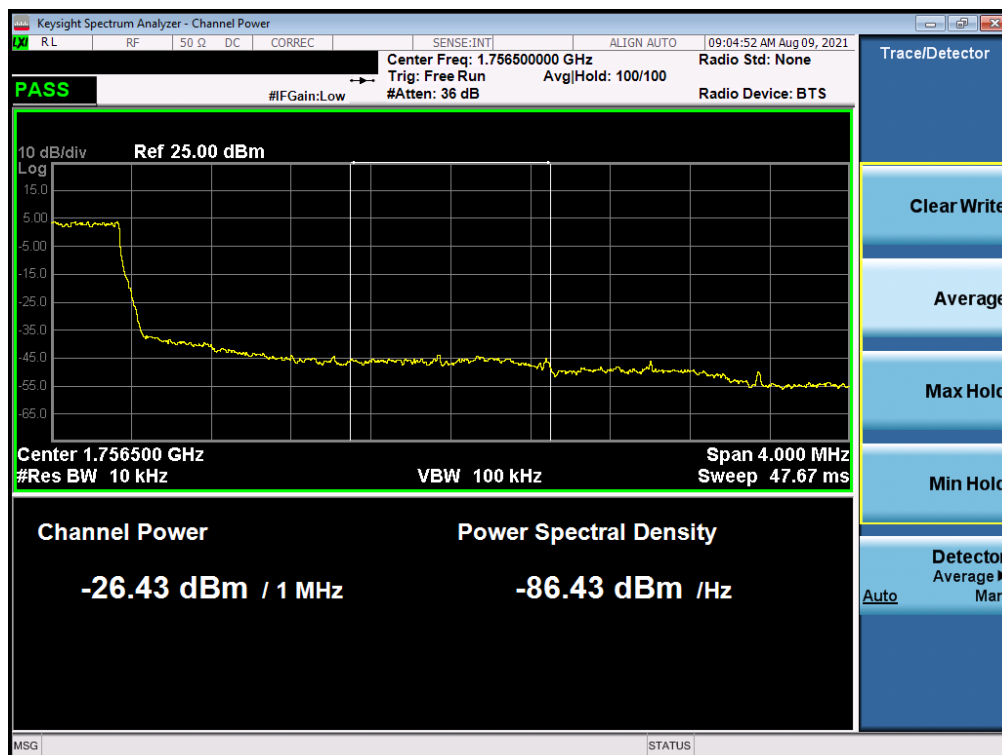


Plot 7-189. Lower Extended Band Edge Plot (LTE Band 66/4 – 1.4MHz QPSK – Full RB - Main Ant)

| | | | | |
|---|--|-------------------------------|-------------|-----------------------------------|
| FCC ID: PY7-95324M | PCTEST Proud to be part of element | PART 27 MEASUREMENT REPORT | SONY | Approved by: Technical Manager |
| Test Report S/N: 1M2108040087-04.PY7 | Test Dates: 8/2 – 9/23/2021 | EUT Type: Portable Handset | | Page 114 of 173 |

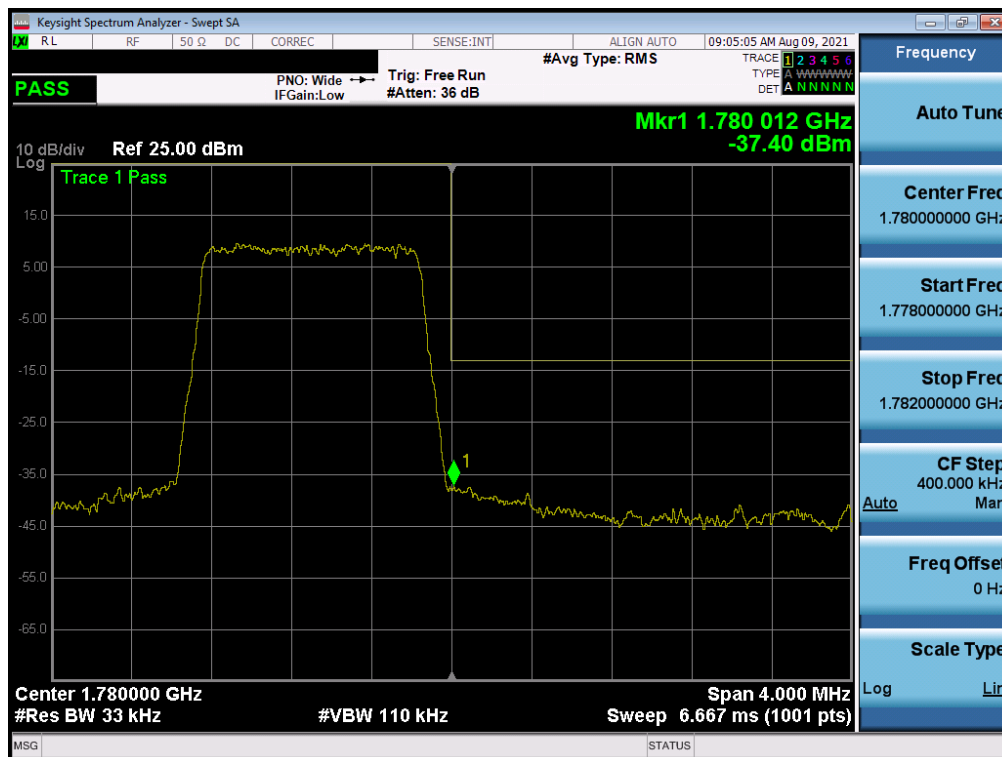


Plot 7-190. Upper Band Edge Plot (LTE Band 4 – 1.4MHz QPSK – Full RB - Main Ant)

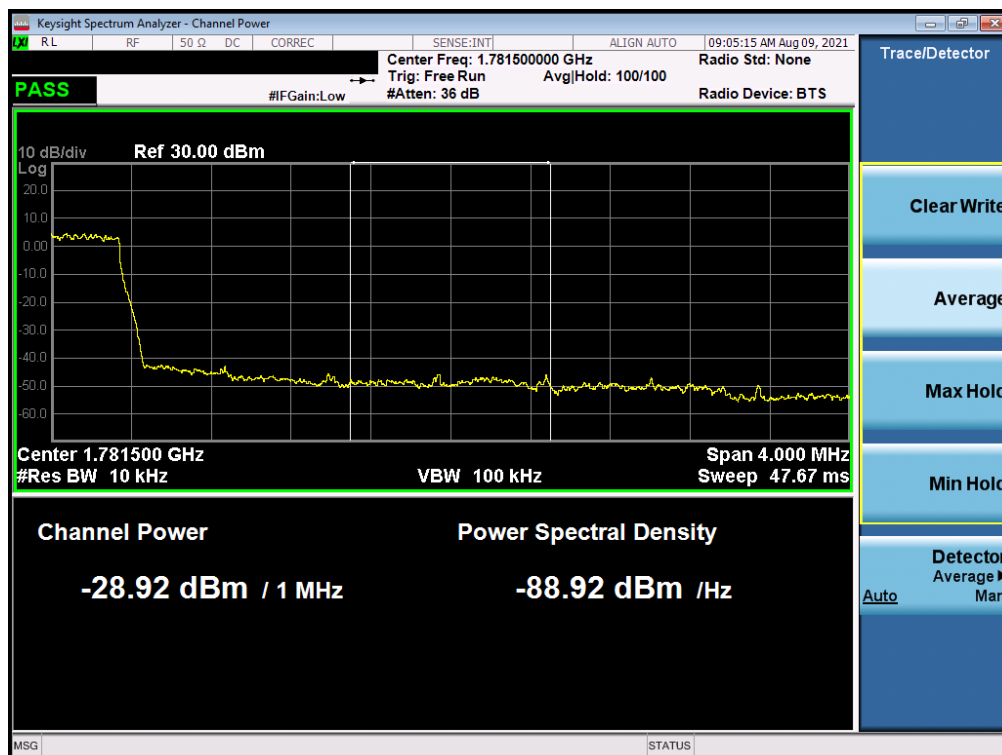


Plot 7-191. Upper Extended Band Edge Plot (LTE Band 4 – 1.4MHz QPSK – Full RB - Main Ant)

| | | | | |
|---|--|-------------------------------|-------------|-----------------------------------|
| FCC ID: PY7-95324M | PCTEST Proud to be part of element | PART 27 MEASUREMENT REPORT | SONY | Approved by: Technical Manager |
| Test Report S/N: 1M2108040087-04.PY7 | Test Dates: 8/2 – 9/23/2021 | EUT Type: Portable Handset | | Page 115 of 173 |



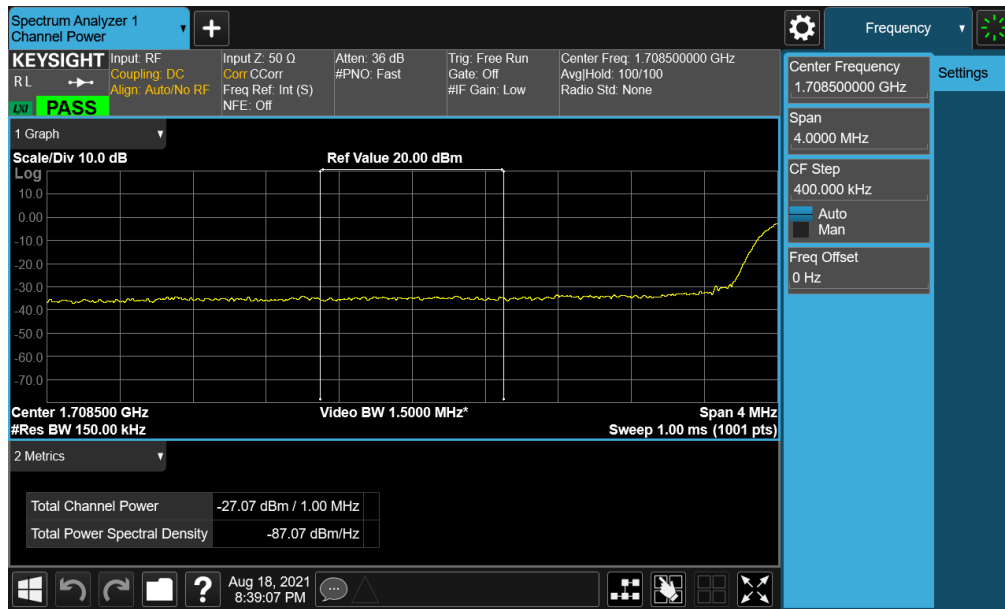
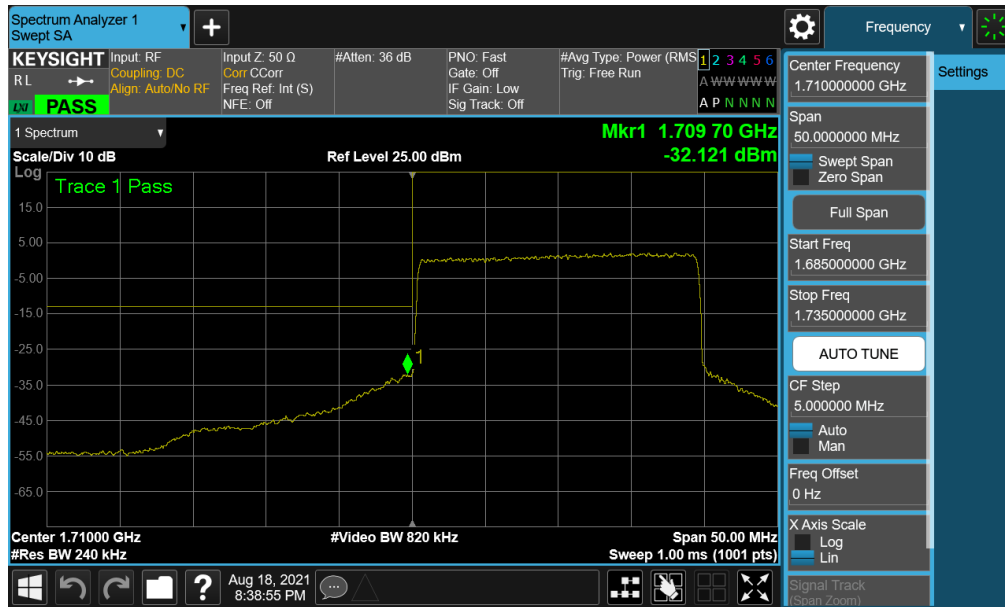
Plot 7-192. Upper Band Edge Plot (LTE Band 66 – 1.4MHz QPSK – Full RB - Main Ant)



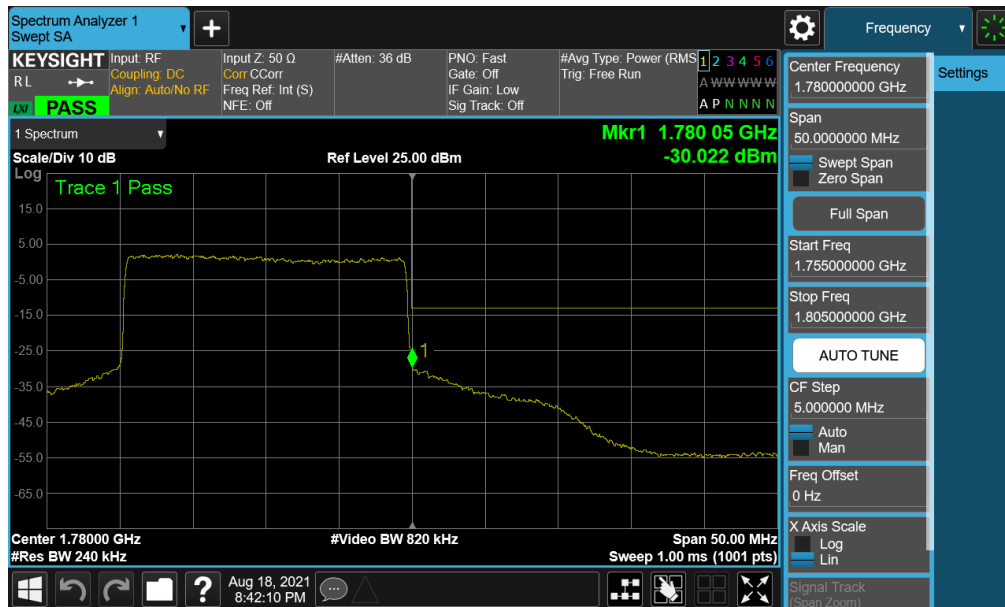
Plot 7-193. Upper Extended Band Edge Plot (LTE Band 66 – 1.4MHz QPSK – Full RB - Main Ant)

| | | | | |
|---|--|-------------------------------|-------------|-----------------------------------|
| FCC ID: PY7-95324M | PCTEST Proud to be part of element | PART 27 MEASUREMENT REPORT | SONY | Approved by: Technical Manager |
| Test Report S/N: 1M2108040087-04.PY7 | Test Dates: 8/2 – 9/23/2021 | EUT Type: Portable Handset | | Page 116 of 173 |

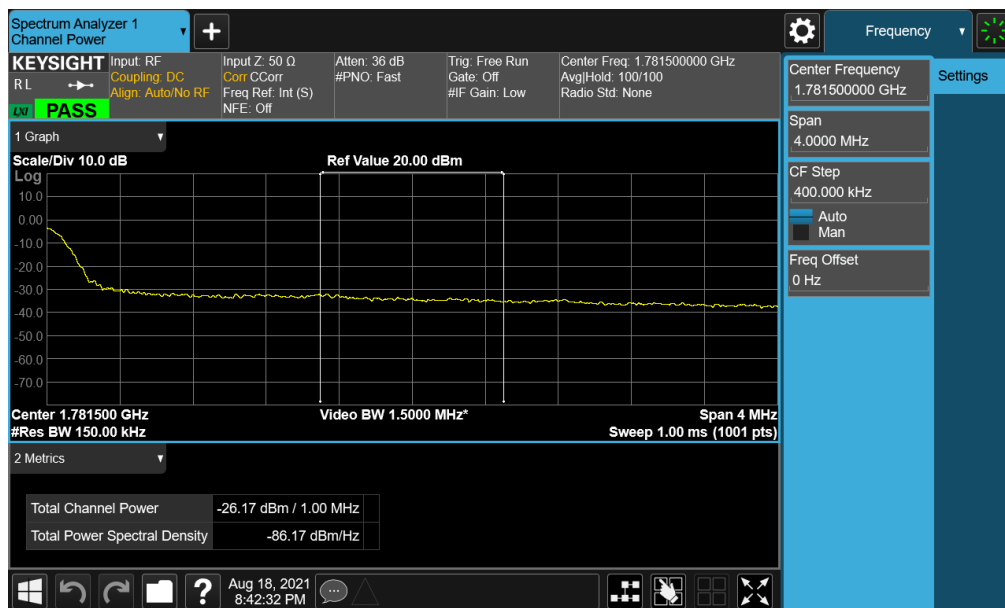
NR Band n66 – Main Ant



| | | | | |
|---|--|-------------------------------|-------------|-----------------------------------|
| FCC ID: PY7-95324M | PCTEST Proud to be part of element | PART 27 MEASUREMENT REPORT | SONY | Approved by: Technical Manager |
| Test Report S/N: 1M2108040087-04.PY7 | Test Dates: 8/2 – 9/23/2021 | EUT Type: Portable Handset | | Page 117 of 173 |

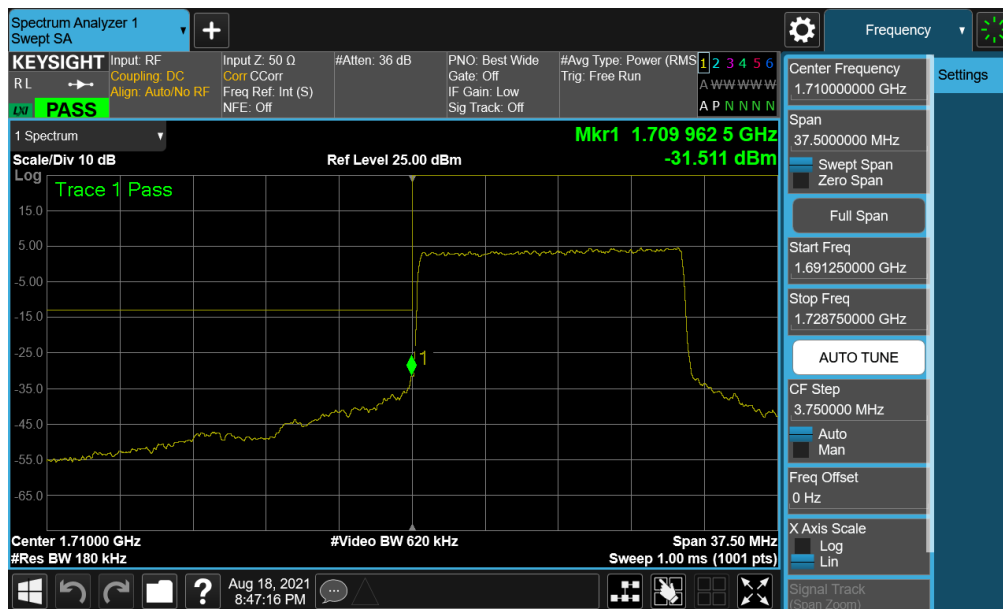


Plot 7-196. Upper Band Edge Plot (NR Band n66 – 20.0MHz - Full RB - Main Ant)

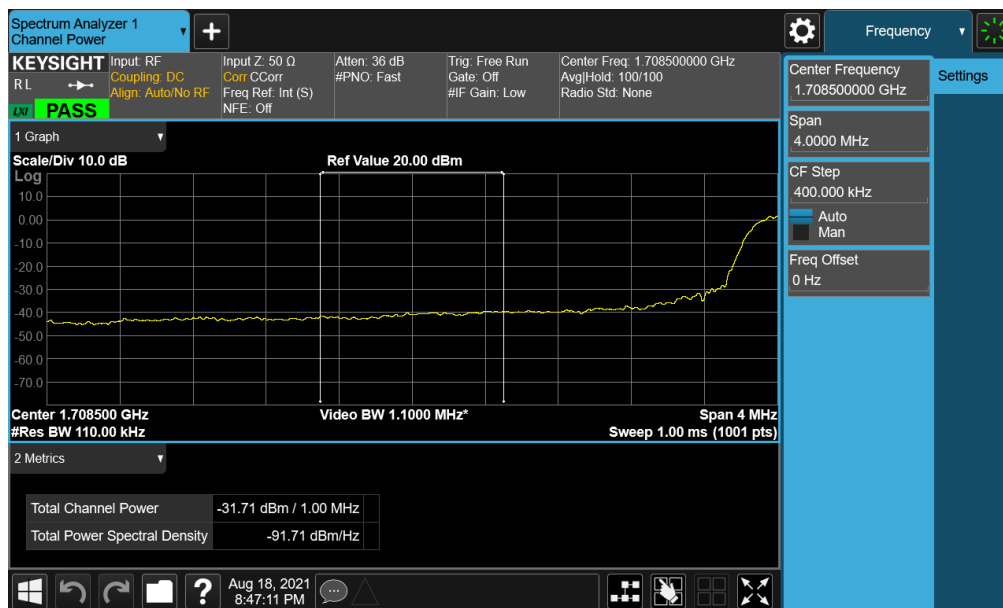


Plot 7-197. Upper Extended Band Edge Plot (NR Band n66 – 20.0MHz - Full RB - Main Ant)

| | | | | |
|---|--|-------------------------------|-------------|-----------------------------------|
| FCC ID: PY7-95324M | PCTEST Proud to be part of element | PART 27 MEASUREMENT REPORT | SONY | Approved by: Technical Manager |
| Test Report S/N: 1M2108040087-04.PY7 | Test Dates: 8/2 – 9/23/2021 | EUT Type: Portable Handset | | Page 118 of 173 |

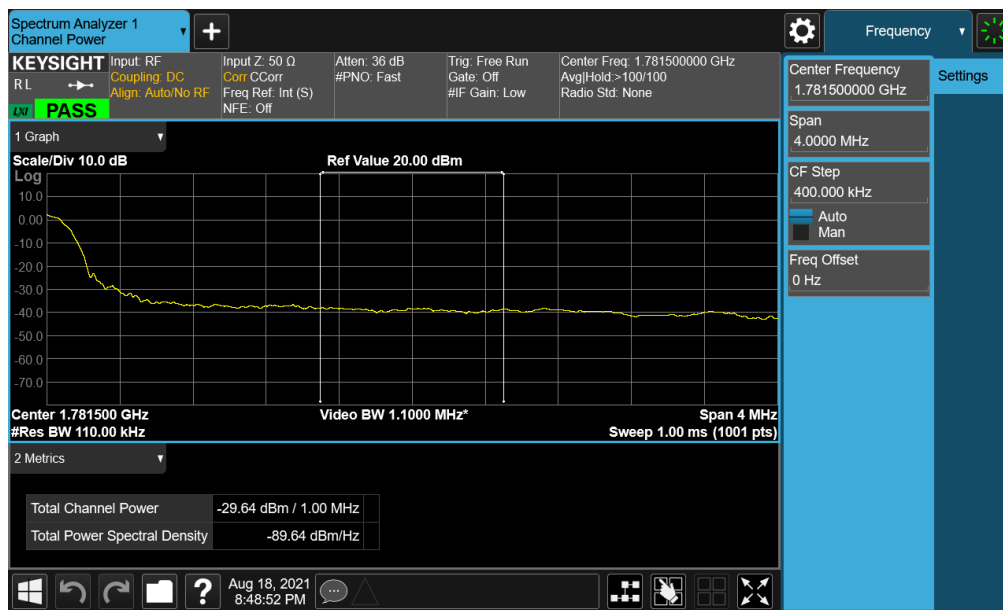
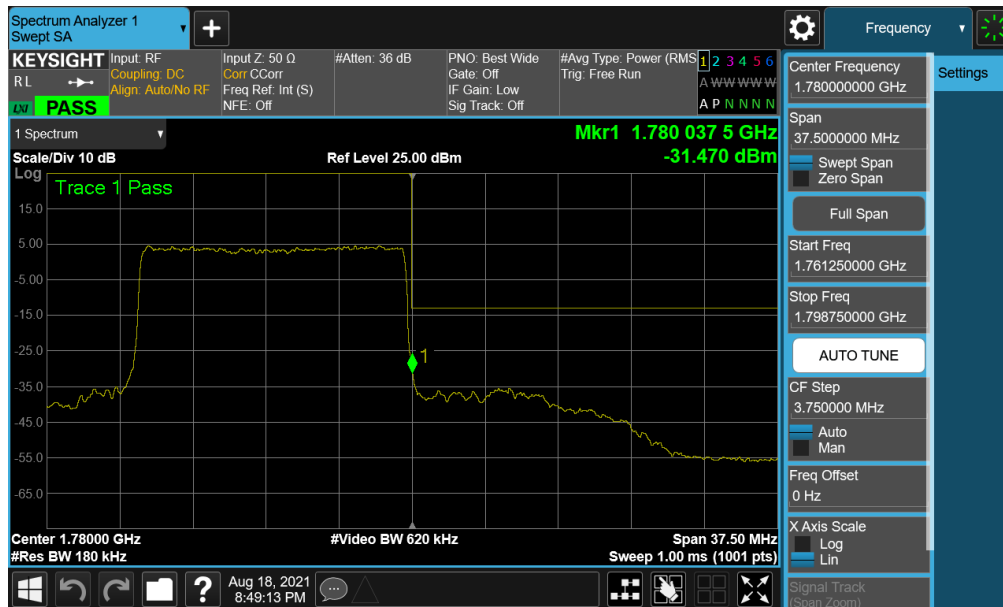


Plot 7-198. Lower Band Edge Plot (NR Band n66 – 15.0MHz - Full RB - Main Ant)

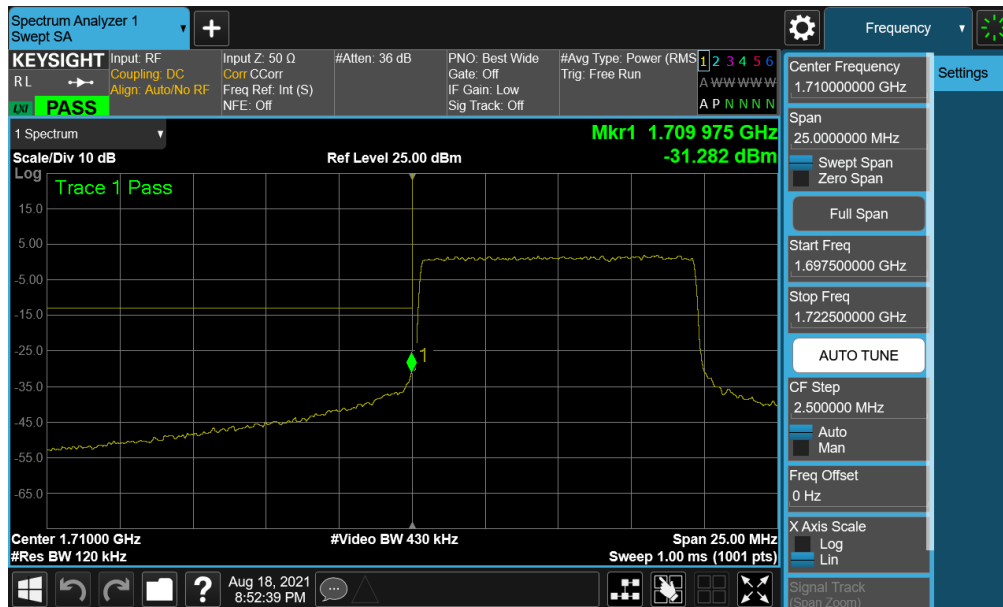


Plot 7-199. Lower Extended Band Edge Plot (NR Band n66 – 15.0MHz - Full RB - Main Ant)

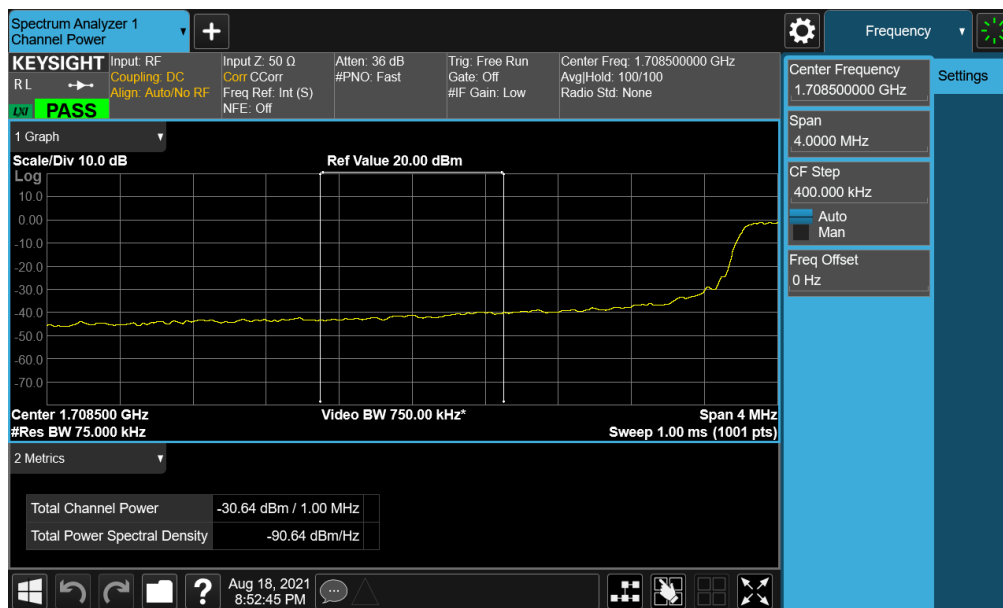
| | | | | |
|---|--|-------------------------------|-------------|-----------------------------------|
| FCC ID: PY7-95324M | PCTEST Proud to be part of element | PART 27 MEASUREMENT REPORT | SONY | Approved by: Technical Manager |
| Test Report S/N: 1M2108040087-04.PY7 | Test Dates: 8/2 – 9/23/2021 | EUT Type: Portable Handset | | Page 119 of 173 |



| | | | | |
|---|--|-------------------------------|-------------|-----------------------------------|
| FCC ID: PY7-95324M | PCTEST Proud to be part of element | PART 27 MEASUREMENT REPORT | SONY | Approved by: Technical Manager |
| Test Report S/N: 1M2108040087-04.PY7 | Test Dates: 8/2 – 9/23/2021 | EUT Type: Portable Handset | | Page 120 of 173 |

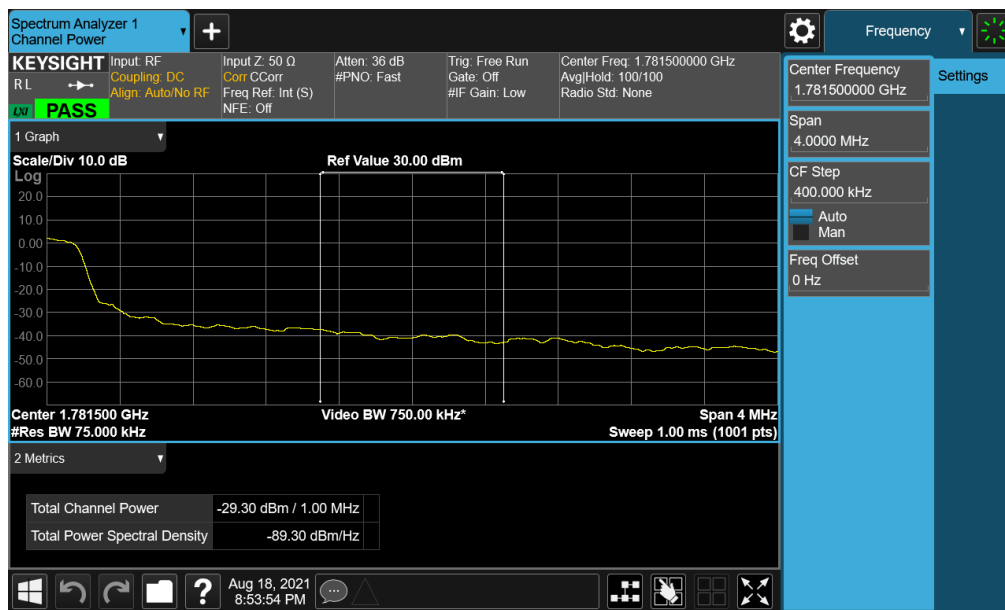
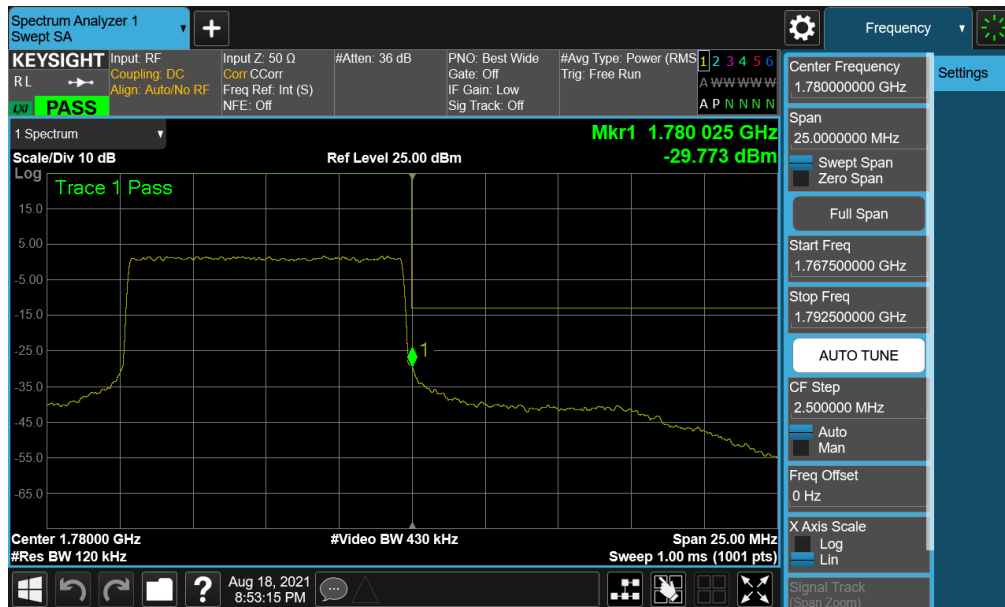


Plot 7-202. Lower Band Edge Plot (NR Band n66 – 10.0MHz - Full RB - Main Ant)

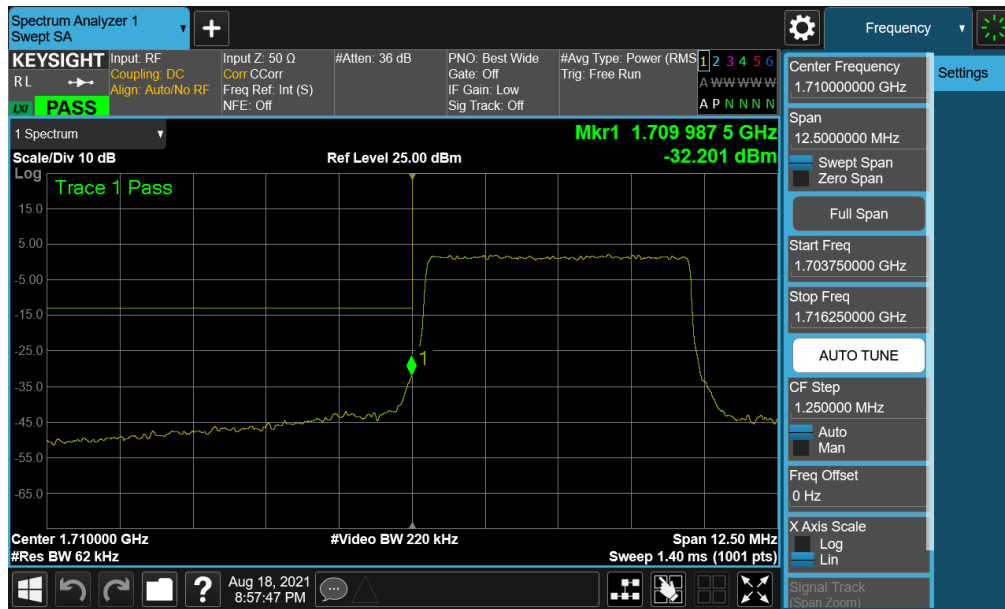


Plot 7-203. Lower Extended Band Edge Plot (NR Band n66 – 10.0MHz - Full RB - Main Ant)

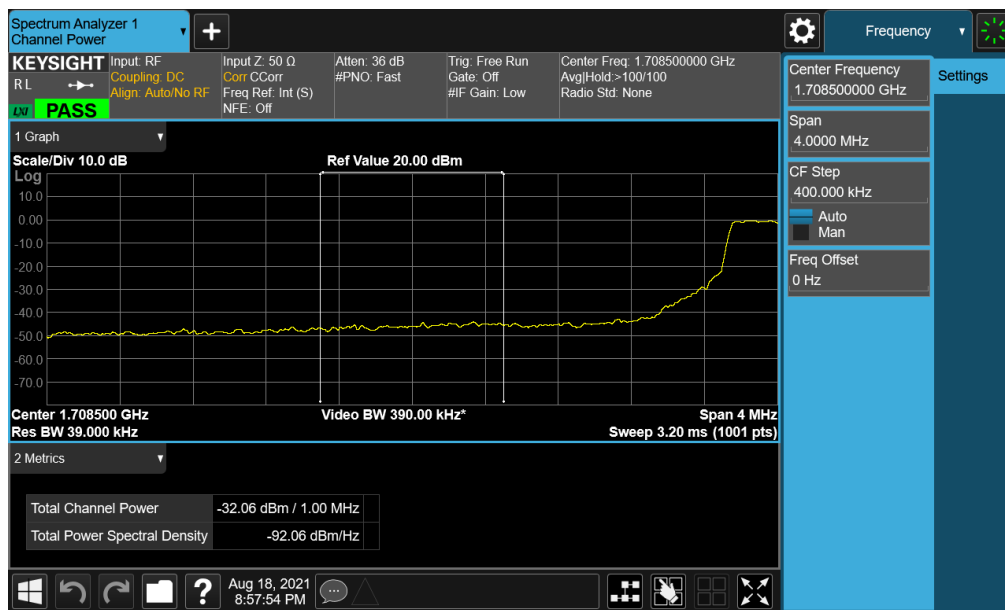
| | | | | |
|---|--|-------------------------------|-------------|-----------------------------------|
| FCC ID: PY7-95324M | PCTEST Proud to be part of element | PART 27 MEASUREMENT REPORT | SONY | Approved by: Technical Manager |
| Test Report S/N: 1M2108040087-04.PY7 | Test Dates: 8/2 – 9/23/2021 | EUT Type: Portable Handset | | Page 121 of 173 |



| | | | | |
|---|--|-------------------------------|-------------|-----------------------------------|
| FCC ID: PY7-95324M | PCTEST Proud to be part of element | PART 27 MEASUREMENT REPORT | SONY | Approved by: Technical Manager |
| Test Report S/N: 1M2108040087-04.PY7 | Test Dates: 8/2 – 9/23/2021 | EUT Type: Portable Handset | | Page 122 of 173 |

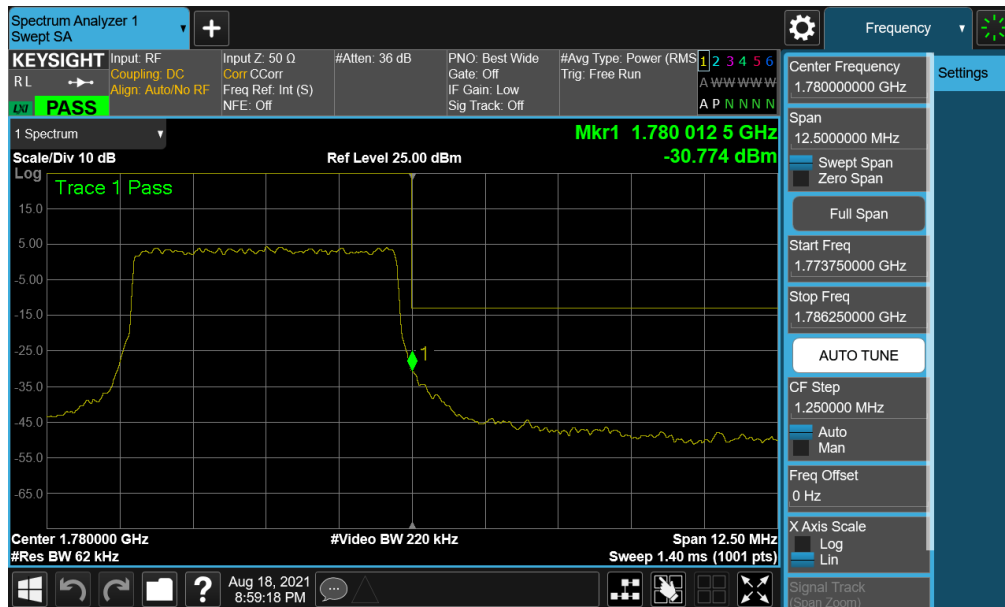


Plot 7-206. Lower Band Edge Plot (NR Band n66 – 5.0MHz - Full RB - Main Ant)

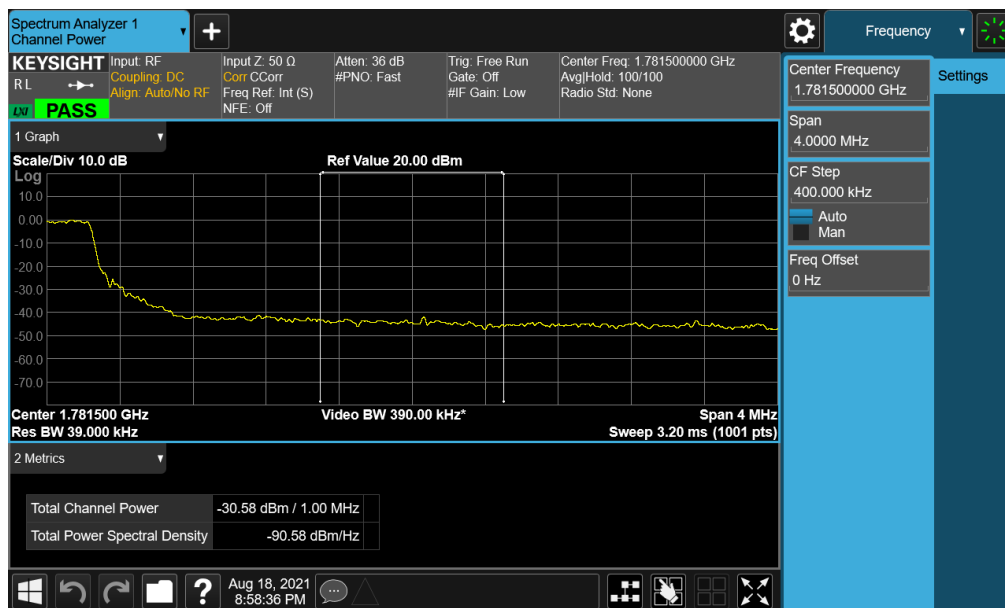


Plot 7-207. Lower Extended Band Edge Plot (NR Band n66 – 5.0MHz - Full RB - Main Ant)

| | | | | |
|---|--|-------------------------------|-------------|-----------------------------------|
| FCC ID: PY7-95324M | PCTEST Proud to be part of element | PART 27 MEASUREMENT REPORT | SONY | Approved by: Technical Manager |
| Test Report S/N: 1M2108040087-04.PY7 | Test Dates: 8/2 – 9/23/2021 | EUT Type: Portable Handset | | Page 123 of 173 |



Plot 7-208. Upper Band Edge Plot (NR Band n66 – 5.0MHz - Full RB - Main Ant)



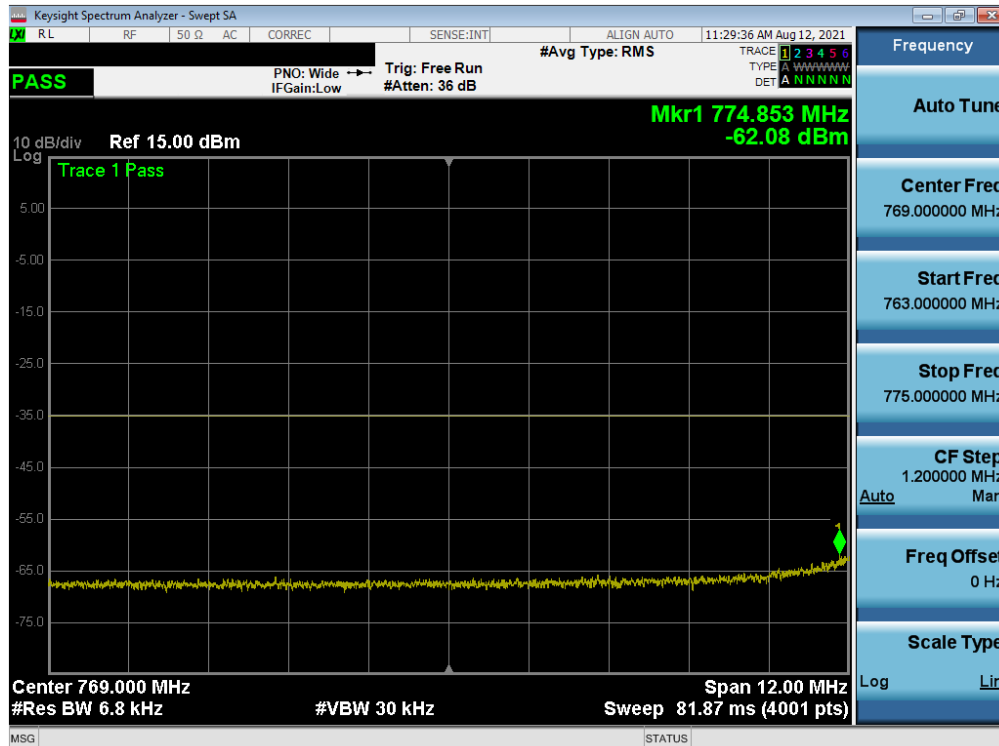
Plot 7-209. Upper Extended Band Edge Plot (NR Band n66 – 5.0MHz - Full RB - Main Ant)

| | | | | |
|---|--|-------------------------------|-------------|-----------------------------------|
| FCC ID: PY7-95324M | PCTEST Proud to be part of element | PART 27 MEASUREMENT REPORT | SONY | Approved by: Technical Manager |
| Test Report S/N: 1M2108040087-04.PY7 | Test Dates: 8/2 – 9/23/2021 | EUT Type: Portable Handset | | Page 124 of 173 |

LTE Band 13 – Sub Ant



Plot 7-210. Lower Band Edge Plot (LTE Band 13 - 10MHz QPSK – Full RB - Sub Ant)

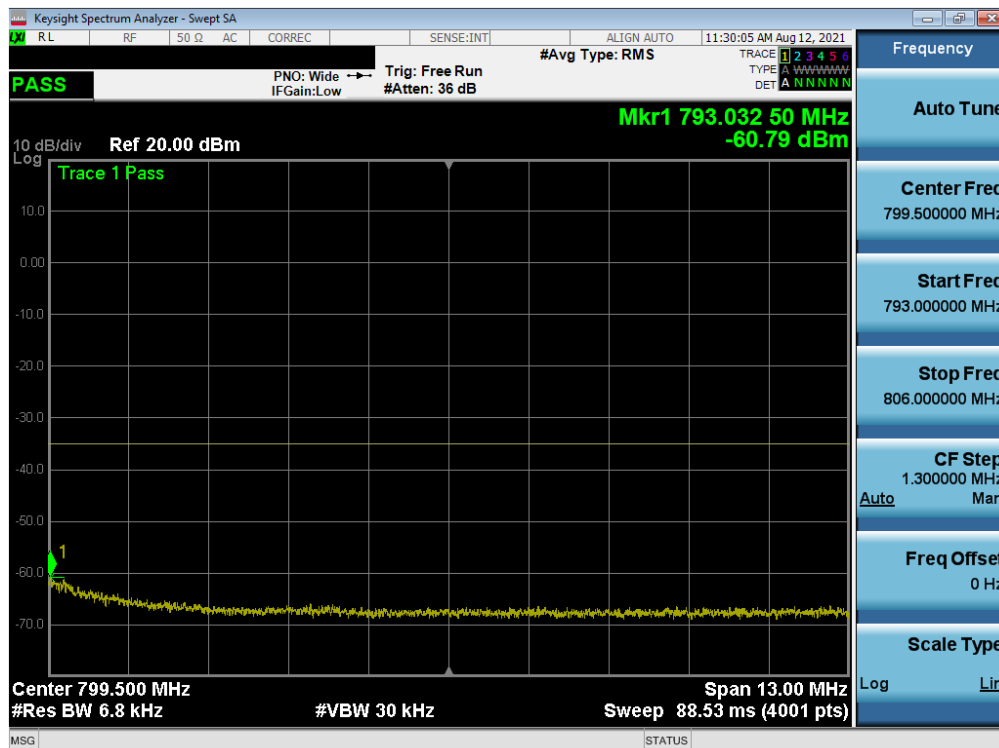


Plot 7-211. Lower Emission Mask Plot (LTE Band 13 - 10MHz QPSK – Full RB - Sub Ant)

| | | | | |
|---|--|-------------------------------|-------------|-----------------------------------|
| FCC ID: PY7-95324M | PCTEST Proud to be part of element | PART 27 MEASUREMENT REPORT | SONY | Approved by: Technical Manager |
| Test Report S/N: 1M2108040087-04.PY7 | Test Dates: 8/2 – 9/23/2021 | EUT Type: Portable Handset | | Page 125 of 173 |

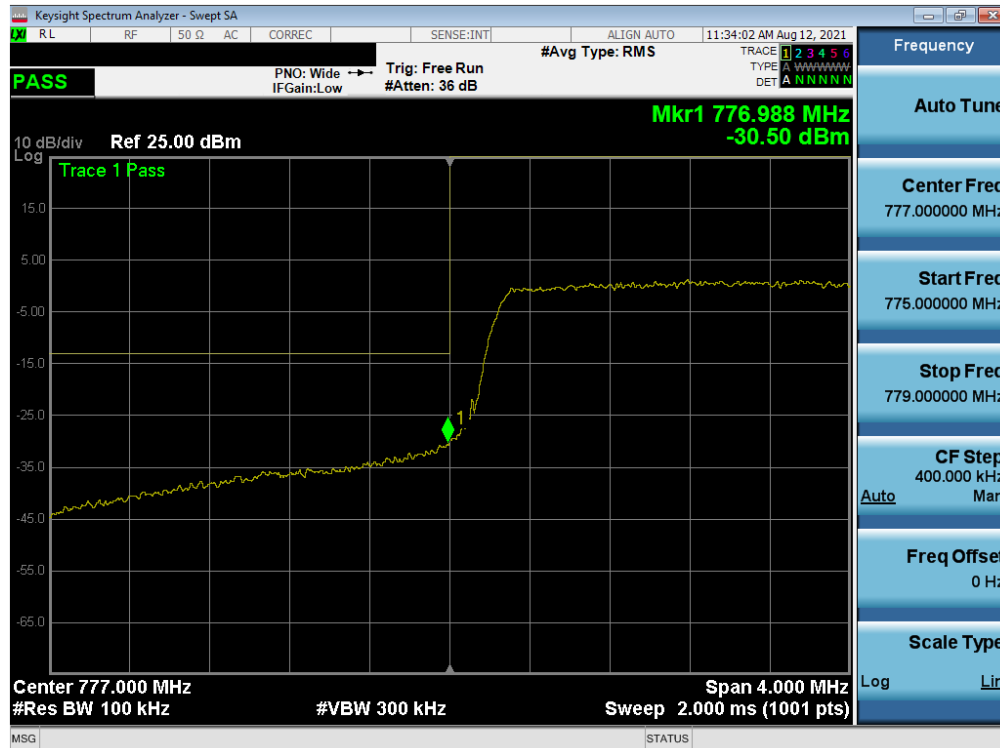


Plot 7-212. Upper Band Edge Plot (LTE Band 13 - 10MHz QPSK - Full RB - Sub Ant)

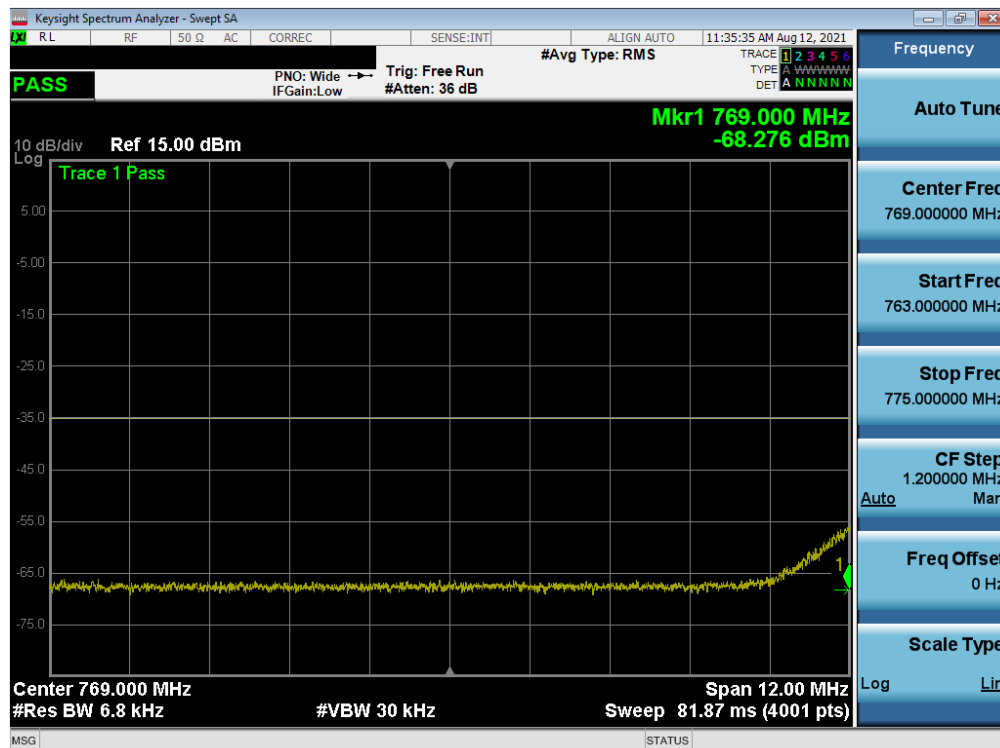


Plot 7-213. Upper Emission Mask Plot (LTE Band 13 - 10MHz QPSK - Full RB - Sub Ant)

| | | | | |
|---|--|-------------------------------|-------------|-----------------------------------|
| FCC ID: PY7-95324M | PCTEST Proud to be part of element | PART 27 MEASUREMENT REPORT | SONY | Approved by: Technical Manager |
| Test Report S/N: 1M2108040087-04.PY7 | Test Dates: 8/2 - 9/23/2021 | EUT Type: Portable Handset | | Page 126 of 173 |



Plot 7-214. Lower Band Edge Plot (LTE Band 13 - 5MHz QPSK – Full RB - Sub Ant)

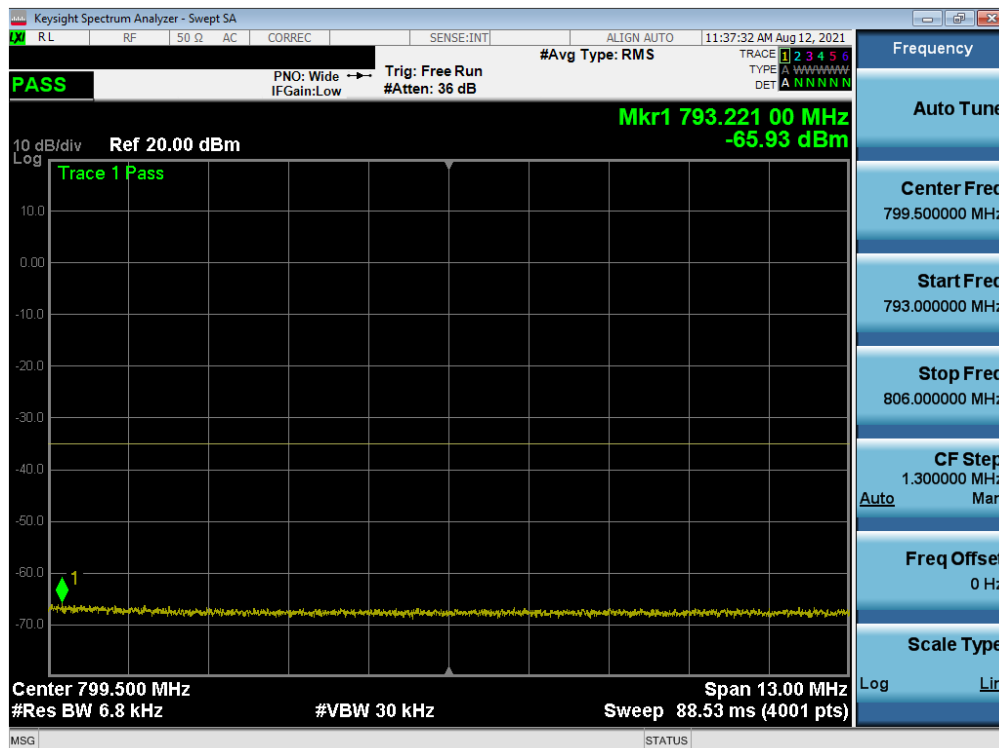


Plot 7-215. Lower Emission Mask Plot (LTE Band 13 - 5MHz QPSK – Full RB - Sub Ant)

| | | | | |
|---|--|-------------------------------|-------------|-----------------------------------|
| FCC ID: PY7-95324M | PCTEST Proud to be part of element | PART 27 MEASUREMENT REPORT | SONY | Approved by: Technical Manager |
| Test Report S/N: 1M2108040087-04.PY7 | Test Dates: 8/2 – 9/23/2021 | EUT Type: Portable Handset | | Page 127 of 173 |



Plot 7-216. Upper Band Edge Plot (LTE Band 13 - 5MHz QPSK - Full RB - Sub Ant)



Plot 7-217. Upper Emission Mask Plot (LTE Band 13 - 5MHz QPSK - Full RB - Sub Ant)

| | | | | |
|---|--|-------------------------------|-------------|-----------------------------------|
| FCC ID: PY7-95324M | PCTEST Proud to be part of element | PART 27 MEASUREMENT REPORT | SONY | Approved by: Technical Manager |
| Test Report S/N: 1M2108040087-04.PY7 | Test Dates: 8/2 - 9/23/2021 | EUT Type: Portable Handset | | Page 128 of 173 |

7.5 Peak-Average Ratio

Test Overview

A peak to average ratio measurement is performed at the conducted port of the EUT. The spectrum analyzers Complementary Cumulative Distribution Function (CCDF) measurement profile is used to determine the largest deviation between the average and the peak power of the EUT in a given bandwidth. The CCDF curve shows how much time the peak waveform spends at or above a given average power level. The percent of time the signal spends at or above the level defines the probability for that particular power level.

Test Procedure Used

KDB 971168 D01 v03r01 – Section 5.7.1

Test Settings

1. The signal analyzer's CCDF measurement profile is enabled
2. Frequency = carrier center frequency
3. Measurement BW \geq OBW or specified reference bandwidth
4. The signal analyzer was set to collect one million samples to generate the CCDF curve
5. The measurement interval was set depending on the type of signal analyzed. For continuous signals (>98% duty cycle), the measurement interval was set to 1ms. For burst transmissions, the spectrum analyzer is set to use an internal "RF Burst" trigger that is synced with an incoming pulse and the measurement interval is set to less than the duration of the "on time" of one burst to ensure that energy is only captured during a time in which the transmitter is operating at maximum power

Test Setup

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

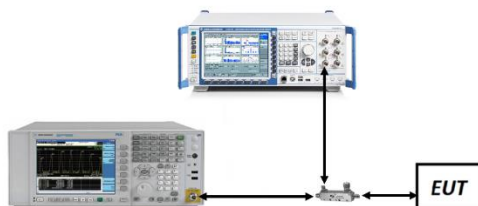


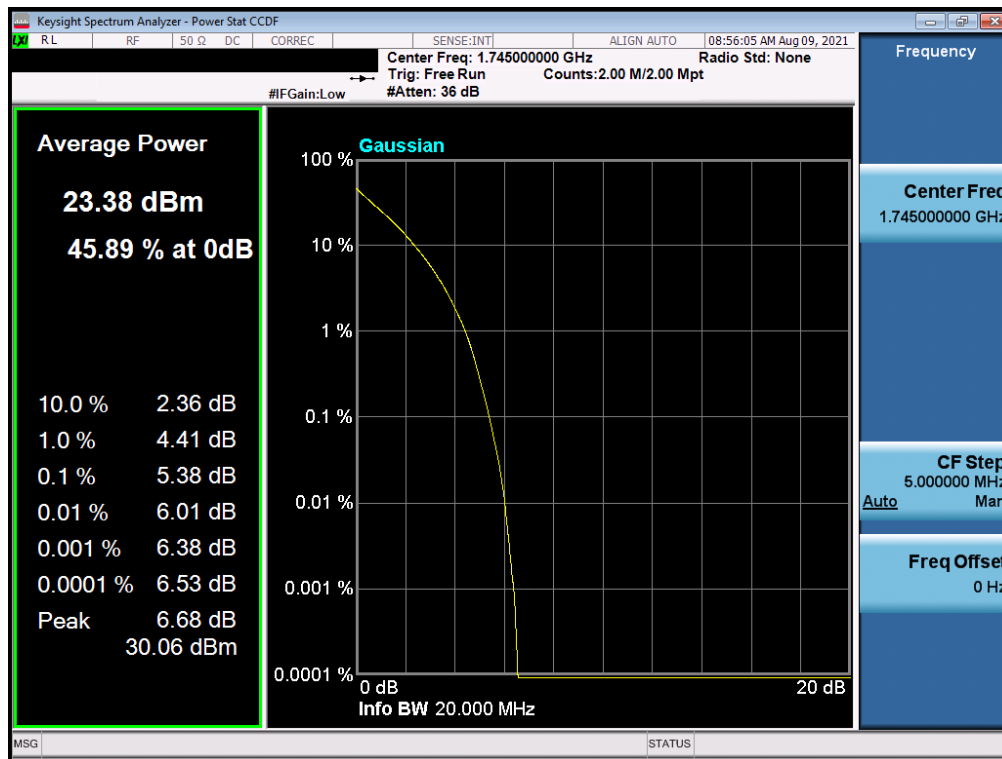
Figure 7-4. Test Instrument & Measurement Setup

Test Notes

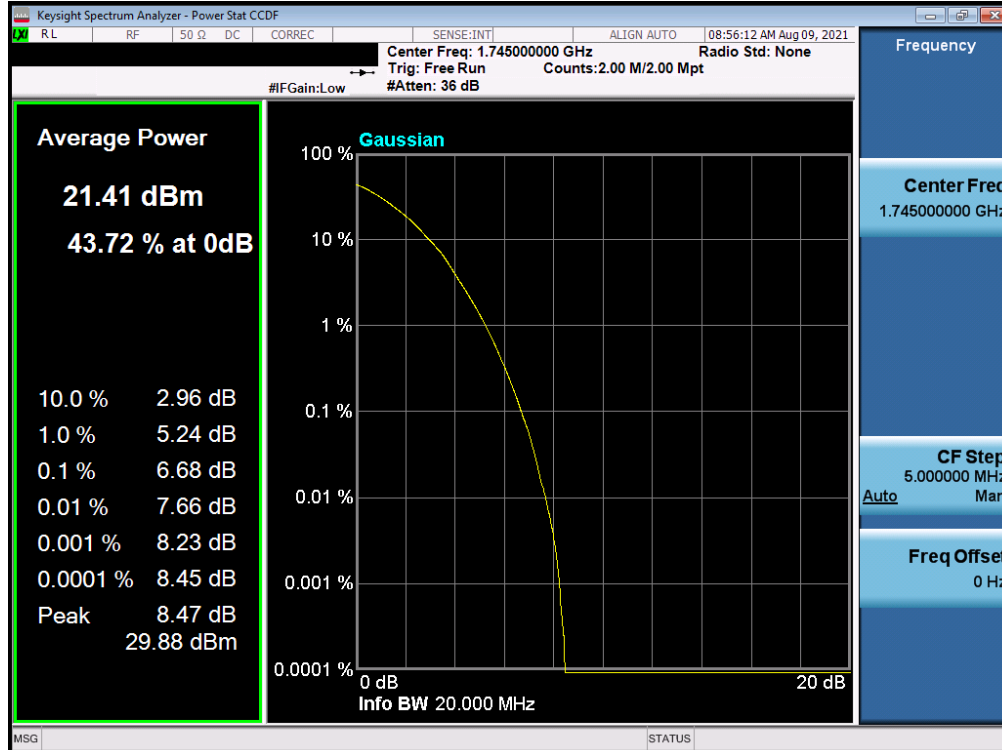
None.

| | | | | |
|---|--|-------------------------------|-------------|-----------------------------------|
| FCC ID: PY7-95324M | PCTEST Proud to be part of element | PART 27 MEASUREMENT REPORT | SONY | Approved by: Technical Manager |
| Test Report S/N: 1M2108040087-04.PY7 | Test Dates: 8/2 – 9/23/2021 | EUT Type: Portable Handset | | Page 129 of 173 |

LTE Band 66/4 – Main Ant

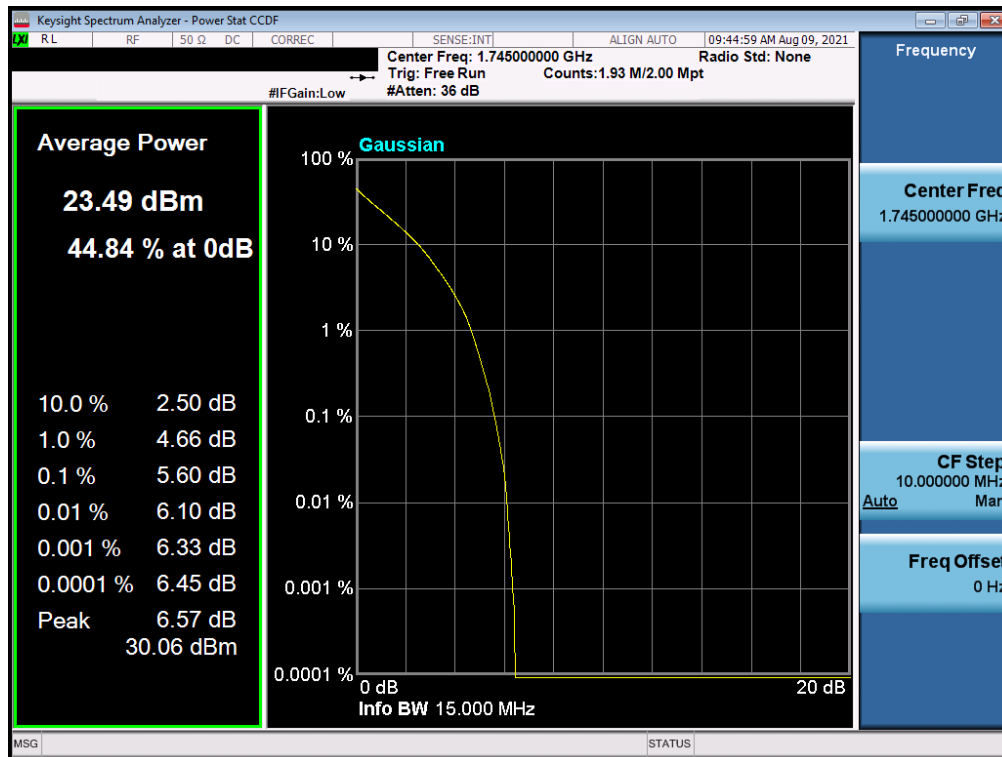


Plot 7-218. PAR Plot (LTE Band 66/4 - 20MHz QPSK - Full RB - Main Ant)

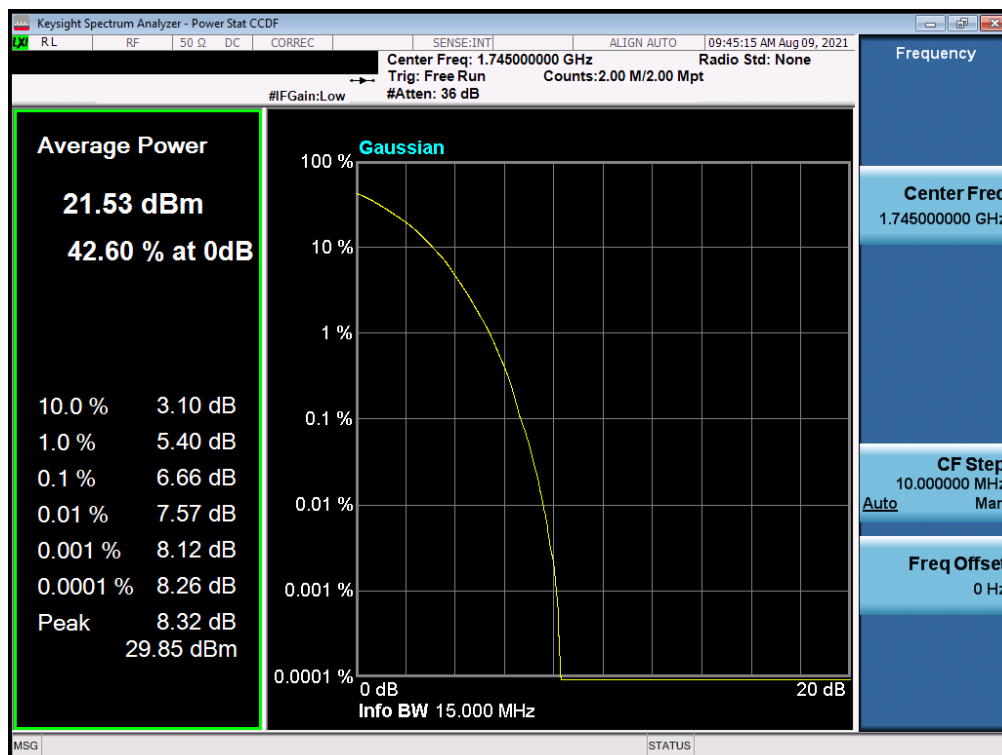


Plot 7-219. PAR Plot (LTE Band 66/4 - 20MHz 64-QAM - Full RB - Main Ant)

| | | | | |
|---|--|-------------------------------|-------------|-----------------------------------|
| FCC ID: PY7-95324M | PCTEST Proud to be part of element | PART 27 MEASUREMENT REPORT | SONY | Approved by: Technical Manager |
| Test Report S/N: 1M2108040087-04.PY7 | Test Dates: 8/2 – 9/23/2021 | EUT Type: Portable Handset | | Page 130 of 173 |

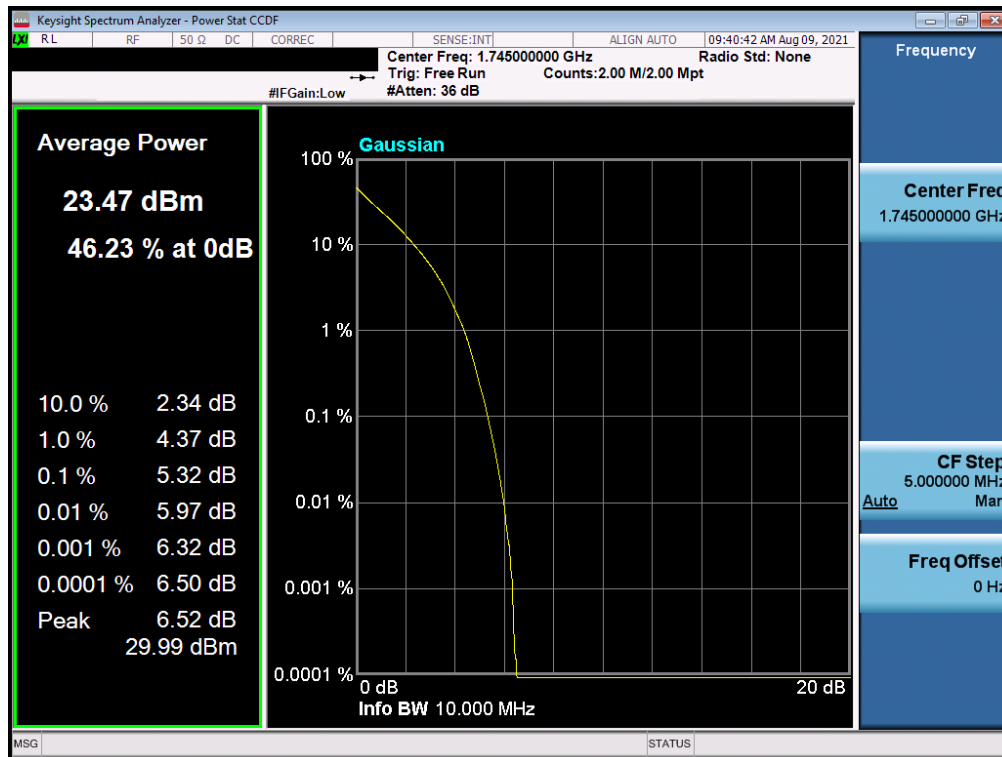


Plot 7-220. PAR Plot (LTE Band 66/4 - 15MHz QPSK - Full RB - Main Ant)

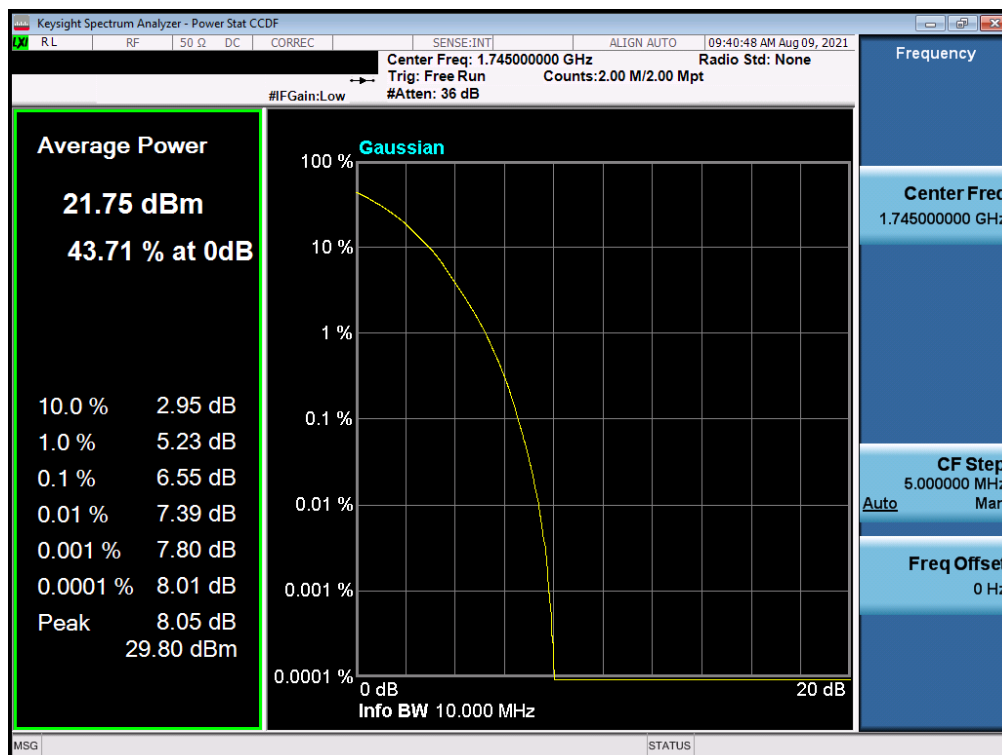


Plot 7-221. PAR Plot (LTE Band 66/4 - 15MHz 64-QAM - Full RB - Main Ant)

| | | | | |
|---|--|-------------------------------|-------------|-----------------------------------|
| FCC ID: PY7-95324M | PCTEST Proud to be part of element | PART 27 MEASUREMENT REPORT | SONY | Approved by: Technical Manager |
| Test Report S/N: 1M2108040087-04.PY7 | Test Dates: 8/2 - 9/23/2021 | EUT Type: Portable Handset | | Page 131 of 173 |

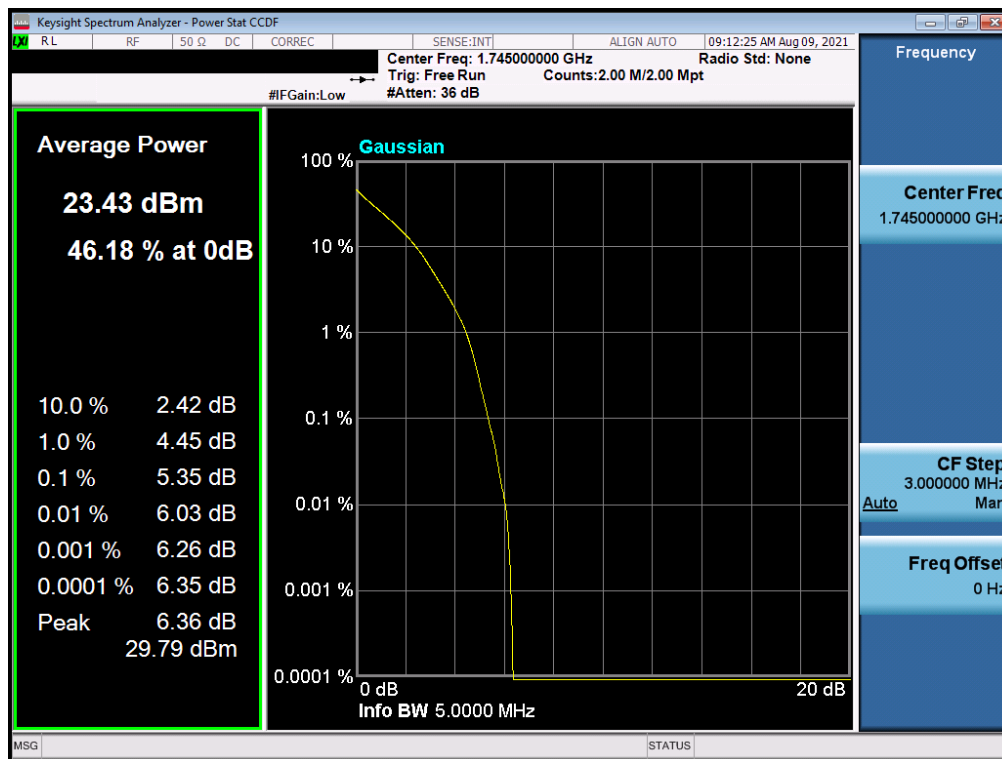


Plot 7-222. PAR Plot (LTE Band 66/4 - 10MHz QPSK - Full RB - Main Ant)

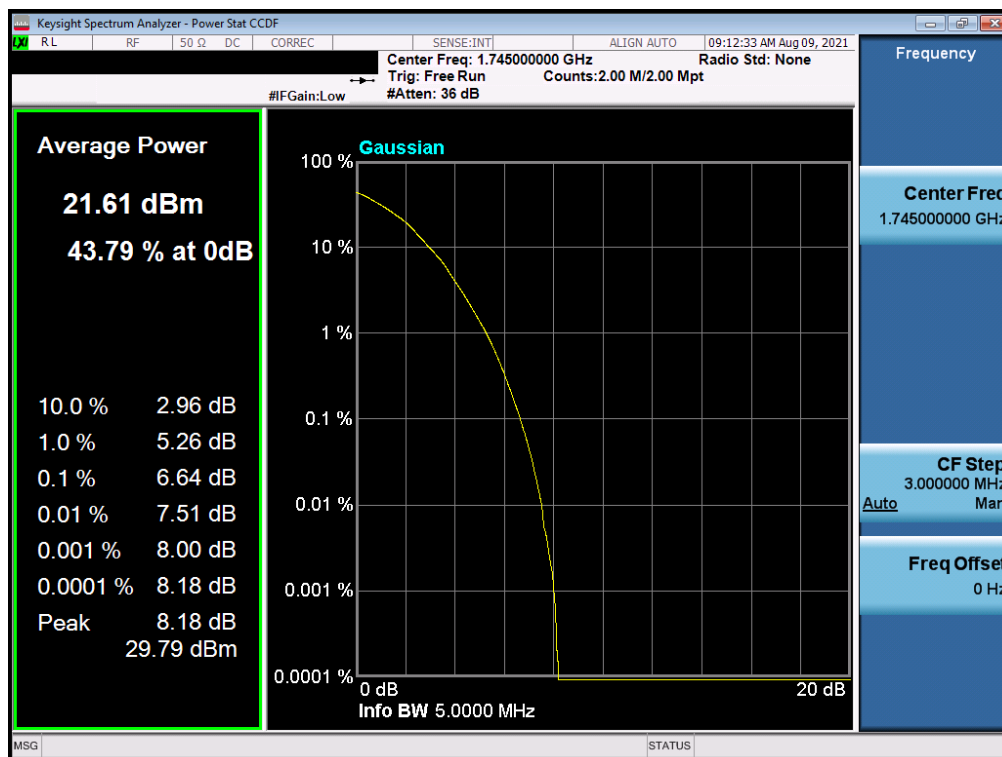


Plot 7-223. PAR Plot (LTE Band 66/4 - 10MHz 64-QAM - Full RB - Main Ant)

| | | | | |
|---|--|-------------------------------|-------------|-----------------------------------|
| FCC ID: PY7-95324M | PCTEST Proud to be part of element | PART 27 MEASUREMENT REPORT | SONY | Approved by: Technical Manager |
| Test Report S/N: 1M2108040087-04.PY7 | Test Dates: 8/2 - 9/23/2021 | EUT Type: Portable Handset | | Page 132 of 173 |

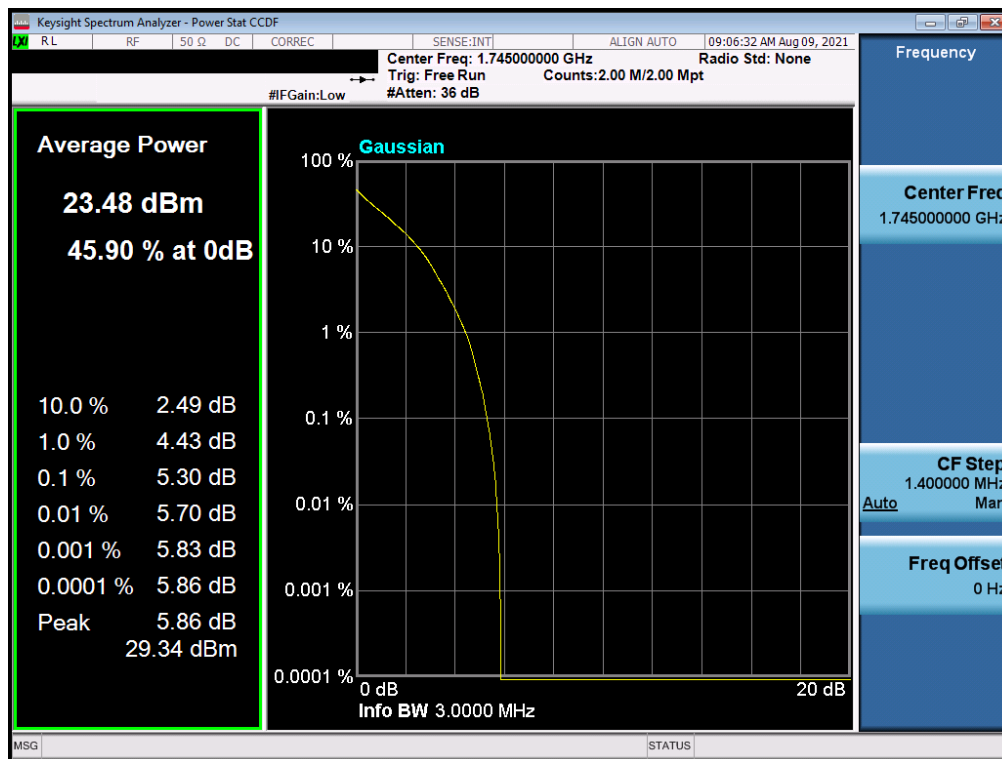


Plot 7-224. PAR Plot (LTE Band 66/4 - 5MHz QPSK - Full RB - Main Ant)

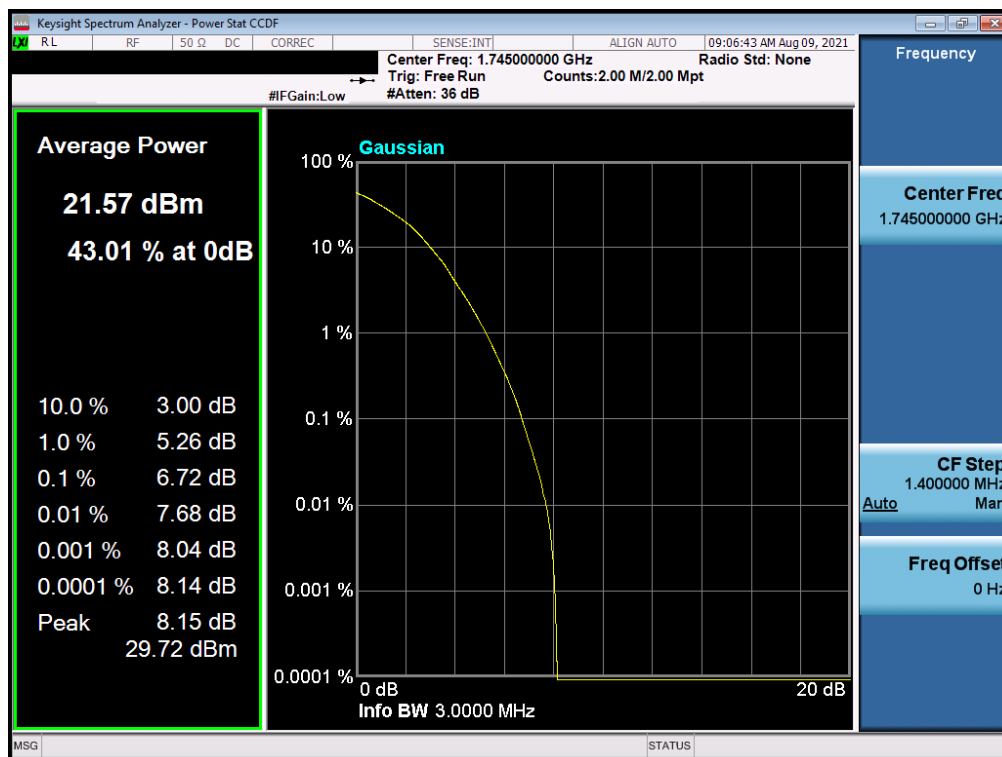


Plot 7-225. PAR Plot (LTE Band 66/4 - 5MHz 64-QAM - Full RB - Main Ant)

| | | | | |
|---|--|-------------------------------|-------------|-----------------------------------|
| FCC ID: PY7-95324M | PCTEST Proud to be part of element | PART 27 MEASUREMENT REPORT | SONY | Approved by: Technical Manager |
| Test Report S/N: 1M2108040087-04.PY7 | Test Dates: 8/2 - 9/23/2021 | EUT Type: Portable Handset | | Page 133 of 173 |

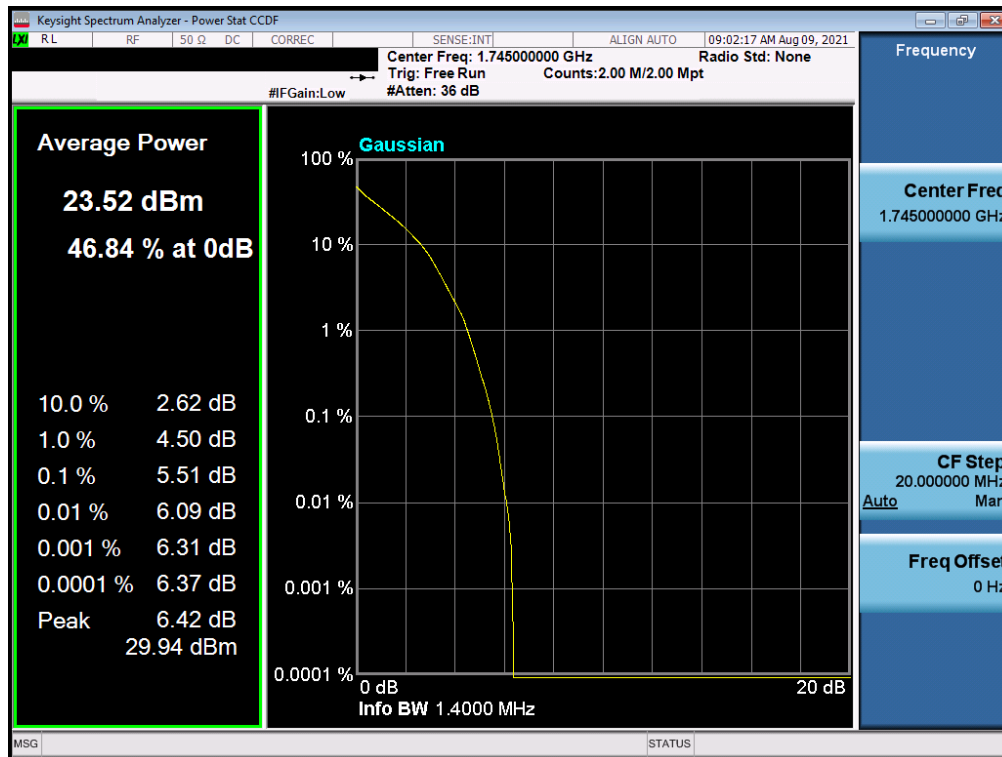


Plot 7-226. PAR Plot (LTE Band 66/4 - 3MHz QPSK - Full RB - Main Ant)

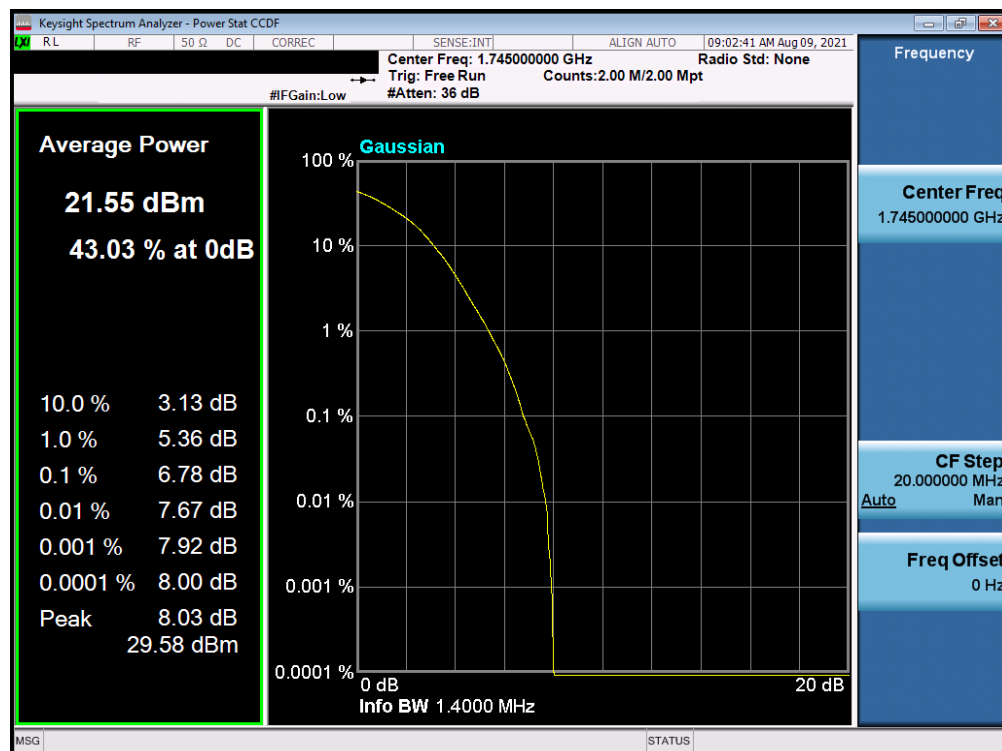


Plot 7-227. PAR Plot (LTE Band 66/4 - 3MHz 64-QAM - Full RB - Main Ant)

| | | | | |
|---|--|-------------------------------|-------------|-----------------------------------|
| FCC ID: PY7-95324M | PCTEST Proud to be part of element | PART 27 MEASUREMENT REPORT | SONY | Approved by: Technical Manager |
| Test Report S/N: 1M2108040087-04.PY7 | Test Dates: 8/2 - 9/23/2021 | EUT Type: Portable Handset | | Page 134 of 173 |



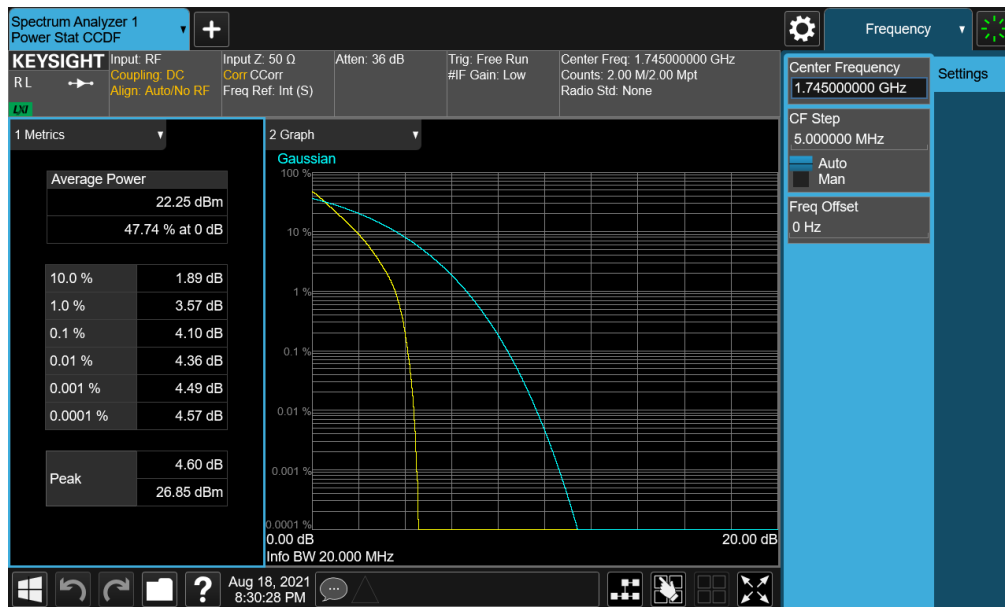
Plot 7-228. PAR Plot (LTE Band 66/4 - 1.4MHz QPSK - Full RB - Main Ant)



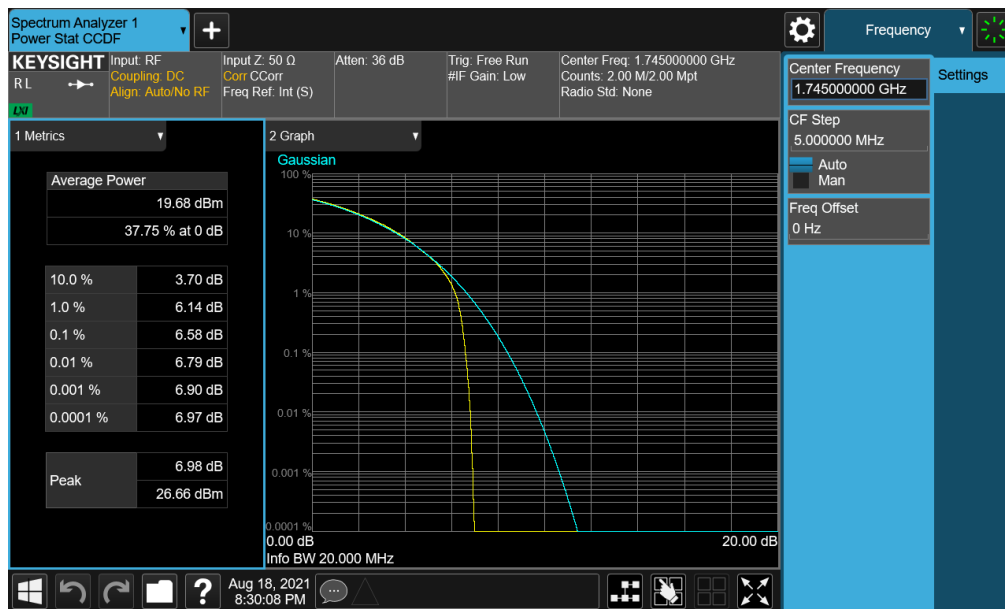
Plot 7-229. PAR Plot (LTE Band 66/4 - 1.4MHz 64-QAM - Full RB - Main Ant)

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|---|--|-------------------------------|-------------|-----------------------------------|
| FCC ID: PY7-95324M | PCTEST Proud to be part of element | PART 27 MEASUREMENT REPORT | SONY | Approved by: Technical Manager |
| Test Report S/N: 1M2108040087-04.PY7 | Test Dates: 8/2 - 9/23/2021 | EUT Type: Portable Handset | | Page 135 of 173 |

NR Band n66 – Main Ant



Plot 7-230. PAR Plot (NR Band n66 - 20.0MHz DFT-s-OFDM BPSK - Full RB - Main Ant)

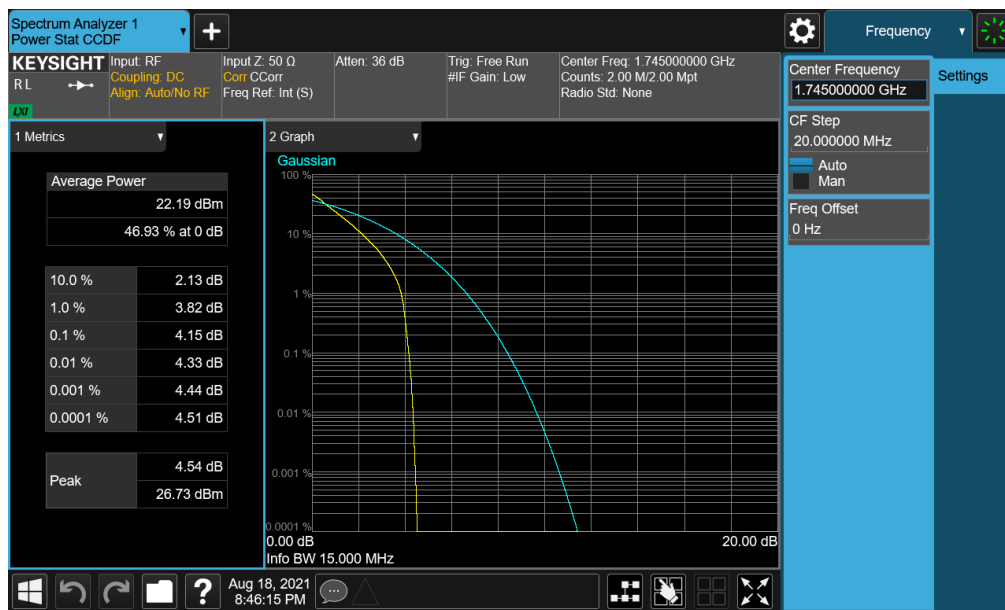


Plot 7-231. PAR Plot (NR Band n66 - 20.0MHz CP-OFDM QPSK - Full RB - Main Ant)

| | | | | |
|---|--|-------------------------------|-------------|-----------------------------------|
| FCC ID: PY7-95324M | PCTEST Proud to be part of element | PART 27 MEASUREMENT REPORT | SONY | Approved by: Technical Manager |
| Test Report S/N: 1M2108040087-04.PY7 | Test Dates: 8/2 – 9/23/2021 | EUT Type: Portable Handset | | Page 136 of 173 |

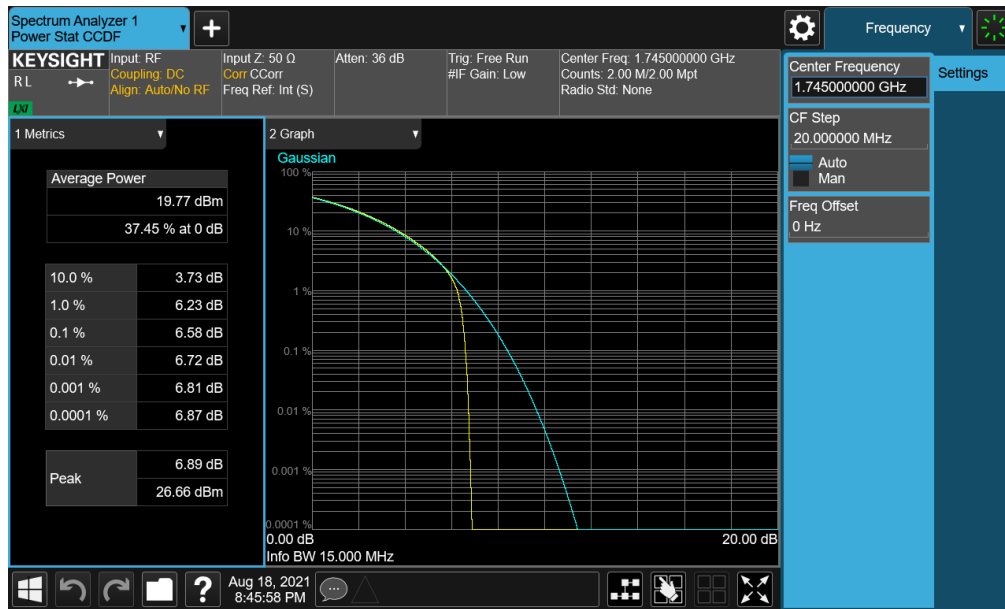


Plot 7-232. PAR Plot (NR Band n66 - 20.0MHz CP-OFDM 256-QAM - Full RB - Main Ant)



Plot 7-233. PAR Plot (NR Band n66 - 15.0MHz DFT-s-OFDM BPSK - Full RB - Main Ant)

| | | | | |
|---|--|-------------------------------|-------------|-----------------------------------|
| FCC ID: PY7-95324M | PCTEST Proud to be part of element | PART 27 MEASUREMENT REPORT | SONY | Approved by: Technical Manager |
| Test Report S/N: 1M2108040087-04.PY7 | Test Dates: 8/2 – 9/23/2021 | EUT Type: Portable Handset | | Page 137 of 173 |

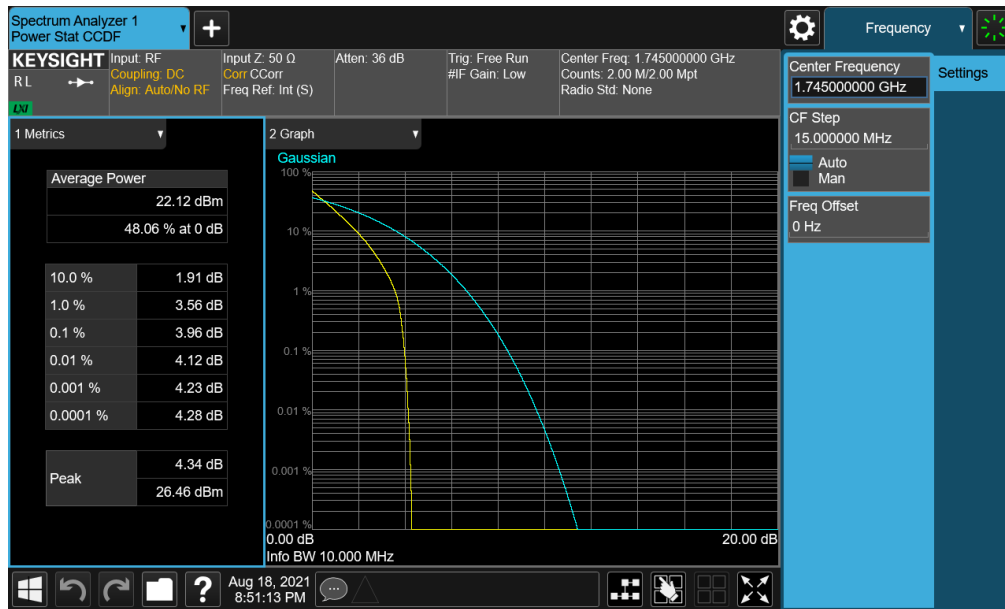


Plot 7-234. PAR Plot (NR Band n66 - 15.0MHz CP-OFDM QPSK - Full RB - Main Ant)

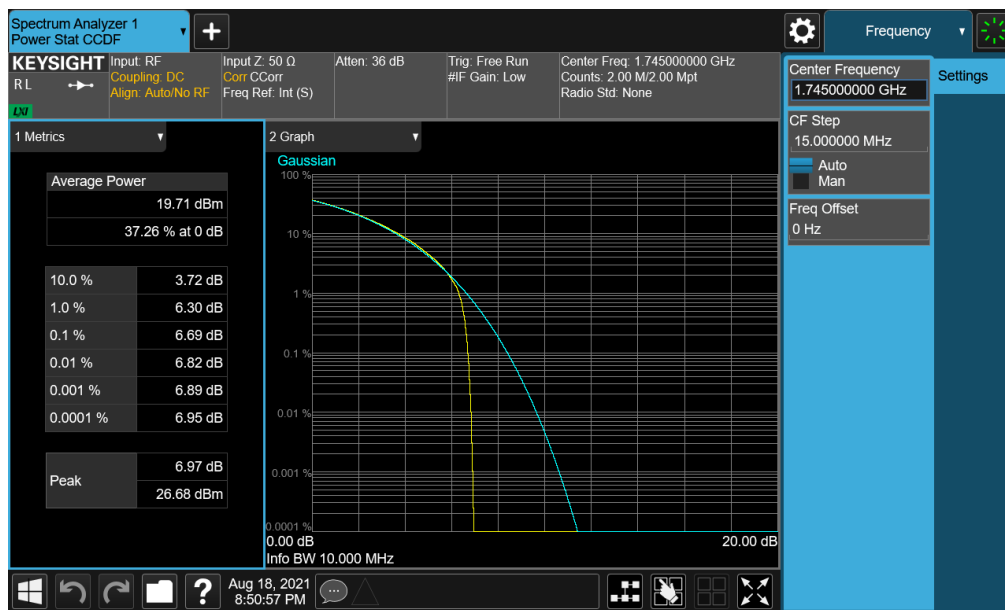


Plot 7-235. PAR Plot (NR Band n66 - 15.0MHz CP-OFDM 256-QAM - Full RB - Main Ant)

| | | | | |
|---|--|-------------------------------|-------------|-----------------------------------|
| FCC ID: PY7-95324M | PCTEST Proud to be part of element | PART 27 MEASUREMENT REPORT | SONY | Approved by: Technical Manager |
| Test Report S/N: 1M2108040087-04.PY7 | Test Dates: 8/2 – 9/23/2021 | EUT Type: Portable Handset | | Page 138 of 173 |



Plot 7-236. PAR Plot (NR Band n66 - 10.0MHz DFT-s-OFDM BPSK - Full RB - Main Ant)

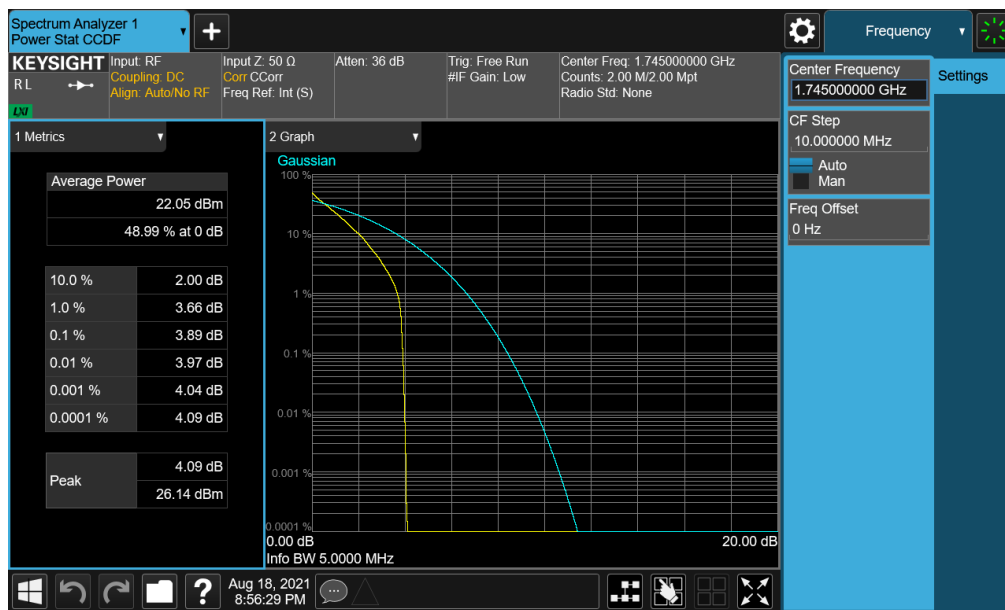


Plot 7-237. PAR Plot (NR Band n66 - 10.0MHz CP-OFDM QPSK - Full RB - Main Ant)

| | | | | |
|---|--|-------------------------------|-------------|-----------------------------------|
| FCC ID: PY7-95324M | PCTEST Proud to be part of element | PART 27 MEASUREMENT REPORT | SONY | Approved by: Technical Manager |
| Test Report S/N: 1M2108040087-04.PY7 | Test Dates: 8/2 – 9/23/2021 | EUT Type: Portable Handset | | Page 139 of 173 |

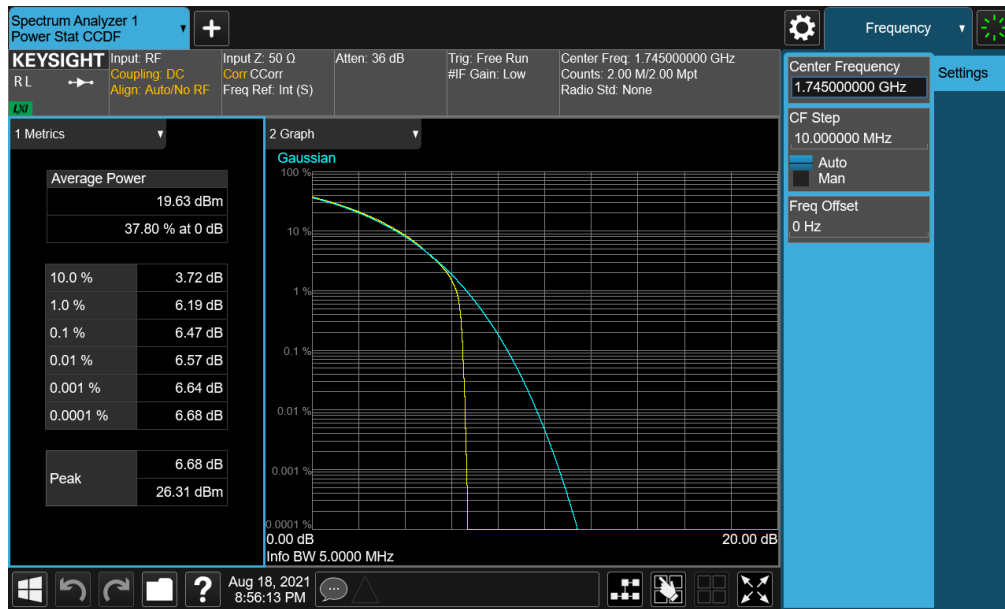


Plot 7-238. PAR Plot (NR Band n66 - 10.0MHz CP-OFDM 256-QAM - Full RB - Main Ant)



Plot 7-239. PAR Plot (NR Band n66 - 5.0MHz DFT-s-OFDM BPSK - Full RB - Main Ant)

| | | | | |
|---|--|-------------------------------|-------------|-----------------------------------|
| FCC ID: PY7-95324M | PCTEST Proud to be part of element | PART 27 MEASUREMENT REPORT | SONY | Approved by: Technical Manager |
| Test Report S/N: 1M2108040087-04.PY7 | Test Dates: 8/2 – 9/23/2021 | EUT Type: Portable Handset | | Page 140 of 173 |



Plot 7-240. PAR Plot (NR Band n66 - 5.0MHz CP-OFDM QPSK - Full RB - Main Ant)



Plot 7-241. PAR Plot (NR Band n66 - 5.0MHz CP-OFDM 256-QAM - Full RB - Main Ant)

| | | | | |
|---|--|-------------------------------|-------------|-----------------------------------|
| FCC ID: PY7-95324M | PCTEST Proud to be part of element | PART 27 MEASUREMENT REPORT | SONY | Approved by: Technical Manager |
| Test Report S/N: 1M2108040087-04.PY7 | Test Dates: 8/2 – 9/23/2021 | EUT Type: Portable Handset | | Page 141 of 173 |

7.6 Radiated Power (ERP/EIRP)

Test Overview

Effective Radiated Power (ERP) and Equivalent Isotropic Radiated Power (EIRP) measurements are performed using the substitution method described in ANSI/TIA-603-E-2016 with the EUT transmitting into an integral antenna. Measurements on signals operating below 1GHz are performed using vertically and horizontally polarized tuned dipole antennas. Measurements on signals operating above 1GHz 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

KDB 971168 D01 v03r01 – Section 5.2.1

ANSI/TIA-603-E-2016 – Section 2.2.17

Test Settings

1. Radiated power measurements are performed using the signal analyzer's "channel power" measurement capability for signals with continuous operation.
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".
8. The integration bandwidth was roughly set equal to the measured OBW of the signal for signals with continuous operation.
9. Trace mode = trace averaging (RMS) over 100 sweeps
10. The trace was allowed to stabilize

| | | | | |
|---|--|-------------------------------|-------------|-----------------------------------|
| FCC ID: PY7-95324M |  PCTEST® Proud to be part of element | PART 27 MEASUREMENT REPORT | SONY | Approved by: Technical Manager |
| Test Report S/N: 1M2108040087-04.PY7 | Test Dates: 8/2 – 9/23/2021 | EUT Type: Portable Handset | | Page 142 of 173 |

Test Setup

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

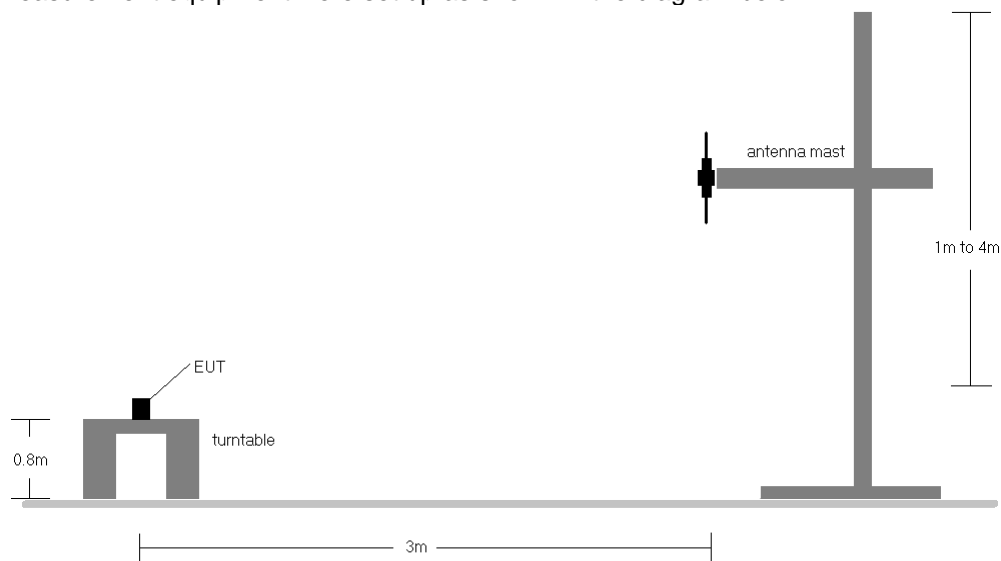


Figure 7-5. Radiated Test Setup <1GHz

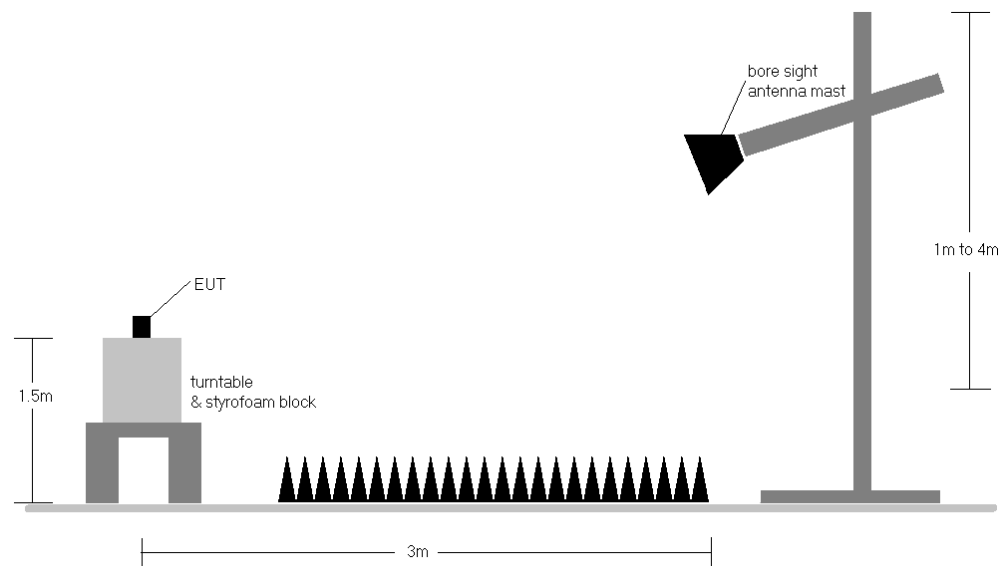



Figure 7-6. Radiated Test Setup >1GHz

| | | | | |
|---|--|-------------------------------|-------------|-----------------------------------|
| FCC ID: PY7-95324M | PCTEST Proud to be part of element | PART 27 MEASUREMENT REPORT | SONY | Approved by: Technical Manager |
| Test Report S/N: 1M2108040087-04.PY7 | Test Dates: 8/2 – 9/23/2021 | EUT Type: Portable Handset | | Page 143 of 173 |

Test Notes

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

| | | | |
|---|--|-------------------------------|-----------------------------------|
| FCC ID: PY7-95324M |  PART 27 MEASUREMENT REPORT | SONY | Approved by: Technical Manager |
| Test Report S/N: 1M2108040087-04.PY7 | Test Dates: 8/2 – 9/23/2021 | EUT Type: Portable Handset | Page 144 of 173 |

| 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] | ERP [dBm] | ERP [Watts] | ERP Limit [dBm] | Margin [dB] |
|-----------|---------------|-----------------|-----------------|---------------------|----------------------------|-----------------|----------------|------------------------|------------|--------------|------------------|-------------|-----------|-------------|-----------------|-------------|
| 20 MHz | QPSK | 673.0 | H | 294 | 82 | 2.99 | 1 / 0 | 11.36 | 14.35 | 0.027 | 36.99 | -22.64 | 12.20 | 0.017 | 34.77 | -22.57 |
| | QPSK | 680.5 | H | 281 | 68 | 3.09 | 1 / 99 | 12.83 | 15.92 | 0.039 | 36.99 | -21.07 | 13.77 | 0.024 | 34.77 | -21.01 |
| | QPSK | 688.0 | H | 159 | 64 | 3.08 | 1 / 99 | 13.79 | 16.87 | 0.049 | 36.99 | -20.12 | 14.72 | 0.030 | 34.77 | -20.05 |
| | 16-QAM | 688.0 | H | 159 | 64 | 3.08 | 1 / 99 | 13.37 | 16.45 | 0.044 | 36.99 | -20.54 | 14.30 | 0.027 | 34.77 | -20.47 |
| 15 MHz | QPSK | 670.5 | H | 294 | 82 | 2.96 | 1 / 0 | 11.36 | 14.31 | 0.027 | 36.99 | -22.68 | 12.16 | 0.016 | 34.77 | -22.61 |
| | QPSK | 680.5 | H | 281 | 68 | 3.09 | 1 / 74 | 12.82 | 15.91 | 0.039 | 36.99 | -21.08 | 13.76 | 0.024 | 34.77 | -21.01 |
| | QPSK | 690.5 | H | 159 | 64 | 3.11 | 1 / 0 | 13.80 | 16.91 | 0.049 | 36.99 | -20.08 | 14.76 | 0.030 | 34.77 | -20.01 |
| | 16-QAM | 690.5 | H | 159 | 64 | 3.11 | 1 / 0 | 13.51 | 16.62 | 0.046 | 36.99 | -20.37 | 14.47 | 0.028 | 34.77 | -20.30 |
| 10 MHz | QPSK | 668.0 | H | 294 | 82 | 2.92 | 1 / 49 | 11.48 | 14.41 | 0.028 | 36.99 | -22.58 | 12.26 | 0.017 | 34.77 | -22.51 |
| | QPSK | 680.5 | H | 281 | 68 | 3.09 | 1 / 25 | 12.76 | 15.85 | 0.038 | 36.99 | -21.14 | 13.70 | 0.023 | 34.77 | -21.07 |
| | QPSK | 693.0 | H | 159 | 64 | 3.14 | 1 / 25 | 13.71 | 16.86 | 0.049 | 36.99 | -20.13 | 14.71 | 0.030 | 34.77 | -20.06 |
| | 16-QAM | 693.0 | H | 159 | 64 | 3.14 | 1 / 25 | 13.61 | 16.75 | 0.047 | 36.99 | -20.24 | 14.60 | 0.029 | 34.77 | -20.17 |
| 5 MHz | QPSK | 665.5 | H | 294 | 82 | 2.94 | 1 / 0 | 11.81 | 14.75 | 0.030 | 36.99 | -22.24 | 12.60 | 0.018 | 34.77 | -22.17 |
| | QPSK | 680.5 | H | 281 | 68 | 3.09 | 1 / 12 | 12.86 | 15.94 | 0.039 | 36.99 | -21.05 | 13.79 | 0.024 | 34.77 | -20.98 |
| | QPSK | 695.5 | H | 159 | 64 | 3.18 | 1 / 24 | 13.62 | 16.80 | 0.048 | 36.99 | -20.19 | 14.65 | 0.029 | 34.77 | -20.13 |
| | 16-QAM | 695.5 | H | 159 | 64 | 3.18 | 1 / 24 | 13.17 | 16.35 | 0.043 | 36.99 | -20.64 | 14.20 | 0.026 | 34.77 | -20.57 |
| 20 MHz | Opposite Pol. | 688.0 | V | 101 | 140 | 3.09 | 1 / 24 | 12.92 | 16.01 | 0.040 | 36.99 | -20.98 | 13.86 | 0.024 | 34.77 | -20.92 |


Table 7-2. ERP Data (LTE Band 71 – Main Ant)

| 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] | ERP [dBm] | ERP [Watts] | ERP Limit [dBm] | Margin [dB] |
|-----------|---------------|-----------------|-----------------|---------------------|----------------------------|-----------------|----------------|------------------------|------------|--------------|------------------|-------------|-----------|-------------|-----------------|-------------|
| 10 MHz | QPSK | 704.0 | H | 262 | 9 | 3.48 | 1 / 49 | 15.47 | 18.95 | 0.079 | 36.99 | -18.04 | 16.80 | 0.048 | 34.77 | -17.97 |
| | QPSK | 707.5 | H | 257 | 10 | 3.52 | 1 / 49 | 15.93 | 19.45 | 0.088 | 36.99 | -17.54 | 17.30 | 0.054 | 34.77 | -17.47 |
| | QPSK | 711.0 | H | 262 | 7 | 3.57 | 1 / 49 | 16.06 | 19.63 | 0.092 | 36.99 | -17.36 | 17.48 | 0.056 | 34.77 | -17.29 |
| | 16-QAM | 711.0 | H | 262 | 7 | 3.57 | 1 / 49 | 15.45 | 19.02 | 0.080 | 36.99 | -17.97 | 16.87 | 0.049 | 34.77 | -17.90 |
| 5 MHz | QPSK | 701.5 | H | 262 | 9 | 3.45 | 1 / 0 | 15.50 | 18.95 | 0.079 | 36.99 | -18.04 | 16.80 | 0.048 | 34.77 | -17.97 |
| | QPSK | 707.5 | H | 257 | 10 | 3.52 | 1 / 24 | 15.88 | 19.40 | 0.087 | 36.99 | -17.59 | 17.25 | 0.053 | 34.77 | -17.52 |
| | QPSK | 713.5 | H | 262 | 7 | 3.70 | 1 / 0 | 15.93 | 19.63 | 0.092 | 36.99 | -17.36 | 17.48 | 0.056 | 34.77 | -17.29 |
| | 16-QAM | 713.5 | H | 262 | 7 | 3.70 | 1 / 0 | 15.55 | 19.25 | 0.084 | 36.99 | -17.74 | 17.10 | 0.051 | 34.77 | -17.68 |
| 3 MHz | QPSK | 700.5 | H | 262 | 9 | 3.39 | 1 / 14 | 15.46 | 18.85 | 0.077 | 36.99 | -18.14 | 16.70 | 0.047 | 34.77 | -18.07 |
| | QPSK | 707.5 | H | 257 | 10 | 3.52 | 1 / 0 | 15.93 | 19.45 | 0.088 | 36.99 | -17.54 | 17.30 | 0.054 | 34.77 | -17.47 |
| | QPSK | 714.5 | H | 262 | 7 | 3.71 | 1 / 0 | 15.94 | 19.65 | 0.092 | 36.99 | -17.34 | 17.50 | 0.056 | 34.77 | -17.27 |
| | 16-QAM | 714.5 | H | 262 | 7 | 3.71 | 1 / 0 | 15.56 | 19.27 | 0.085 | 36.99 | -17.72 | 17.12 | 0.052 | 34.77 | -17.65 |
| 1.4 MHz | QPSK | 699.7 | H | 262 | 9 | 3.33 | 1 / 3 | 15.52 | 18.85 | 0.077 | 36.99 | -18.14 | 16.70 | 0.047 | 34.77 | -18.07 |
| | QPSK | 707.5 | H | 257 | 10 | 3.52 | 1 / 3 | 15.97 | 19.50 | 0.089 | 36.99 | -17.49 | 17.35 | 0.054 | 34.77 | -17.42 |
| | QPSK | 715.3 | H | 262 | 7 | 3.72 | 1 / 0 | 15.80 | 19.52 | 0.090 | 36.99 | -17.47 | 17.37 | 0.055 | 34.77 | -17.40 |
| | 16-QAM | 715.3 | H | 262 | 7 | 3.72 | 1 / 0 | 15.18 | 18.89 | 0.078 | 36.99 | -18.09 | 16.74 | 0.047 | 34.77 | -18.03 |
| 10 MHz | Opposite Pol. | 711.0 | V | 145 | 333 | 3.52 | 1 / 49 | 14.88 | 18.40 | 0.069 | 36.99 | -18.59 | 16.25 | 0.042 | 34.77 | -18.52 |

Table 7-3. ERP Data (LTE Band 12 – Main Ant)

| 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] | ERP [dBm] | ERP [Watts] | ERP Limit [dBm] | Margin [dB] |
|-----------|---------------|-----------------|-----------------|---------------------|----------------------------|-----------------|----------------|------------------------|------------|--------------|------------------|-------------|-----------|-------------|-----------------|-------------|
| 10 MHz | QPSK | 782.0 | H | 262 | 61 | 6.09 | 1 / 0 | 13.92 | 20.01 | 0.100 | 36.99 | -16.98 | 17.86 | 0.061 | 34.77 | -16.91 |
| | 16-QAM | 782.0 | H | 262 | 61 | 6.09 | 1 / 0 | 13.39 | 19.48 | 0.089 | 36.99 | -17.51 | 17.33 | 0.054 | 34.77 | -17.44 |
| 5 MHz | QPSK | 779.5 | H | 262 | 61 | 5.97 | 1 / 24 | 14.01 | 19.98 | 0.099 | 36.99 | -17.01 | 17.83 | 0.061 | 34.77 | -16.95 |
| | QPSK | 782.0 | H | 262 | 61 | 6.09 | 1 / 24 | 13.75 | 19.84 | 0.096 | 36.99 | -17.15 | 17.69 | 0.059 | 34.77 | -17.08 |
| | QPSK | 784.5 | H | 262 | 61 | 6.17 | 1 / 12 | 13.67 | 19.84 | 0.096 | 36.99 | -17.15 | 17.69 | 0.059 | 34.77 | -17.08 |
| | 16-QAM | 779.5 | H | 262 | 61 | 5.97 | 1 / 24 | 13.08 | 19.05 | 0.080 | 36.99 | -17.94 | 16.90 | 0.049 | 34.77 | -17.87 |
| 10 MHz | Opposite Pol. | 782.0 | V | 139 | 115 | 6.09 | 1 / 0 | 13.01 | 19.10 | 0.081 | 36.99 | -17.89 | 16.95 | 0.050 | 34.77 | -17.82 |

Table 7-4. ERP Data (LTE Band 13 – Main Ant)

| | | | | | |
|---|---|-------------------------------|----------------------------|------|-----------------------------------|
| FCC ID: PY7-95324M |  | | PART 27 MEASUREMENT REPORT | SONY | Approved by: Technical Manager |
| Test Report S/N: 1M2108040087-04.PY7 | Test Dates: 8/2 – 9/23/2021 | EUT Type: Portable Handset | | | Page 145 of 173 |

| 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] | ERP [dBm] | ERP [Watts] | ERP Limit [dBm] | Margin [dB] |
|-----------|----------------------|-----------------|-----------------|---------------------|----------------------------|-----------------|----------------|------------------------|------------|--------------|------------------|-------------|-----------|-------------|-----------------|-------------|
| 20 MHz | π/2 BPSK | 673.0 | H | 137 | 70 | 2.99 | 1 / 79 | 12.29 | 15.28 | 0.034 | 36.99 | -21.71 | 13.13 | 0.021 | 34.77 | -21.64 |
| | π/2 BPSK | 680.5 | H | 145 | 77 | 3.09 | 1 / 79 | 12.78 | 15.87 | 0.039 | 36.99 | -21.12 | 13.72 | 0.024 | 34.77 | -21.06 |
| | π/2 BPSK | 688.0 | H | 101 | 73 | 3.08 | 1 / 26 | 12.23 | 15.31 | 0.034 | 36.99 | -21.68 | 13.16 | 0.021 | 34.77 | -21.61 |
| | QPSK | 673.0 | H | 137 | 70 | 2.99 | 1 / 79 | 12.51 | 15.50 | 0.035 | 36.99 | -21.49 | 13.35 | 0.022 | 34.77 | -21.42 |
| | QPSK | 680.5 | H | 145 | 77 | 3.09 | 1 / 79 | 13.07 | 16.16 | 0.041 | 36.99 | -20.83 | 14.01 | 0.025 | 34.77 | -20.77 |
| | QPSK | 688.0 | H | 101 | 73 | 3.08 | 1 / 26 | 12.38 | 15.46 | 0.035 | 36.99 | -21.53 | 13.31 | 0.021 | 34.77 | -21.46 |
| 15 MHz | 16-QAM | 680.5 | H | 145 | 77 | 3.09 | 1 / 79 | 11.56 | 14.65 | 0.029 | 36.99 | -22.34 | 12.50 | 0.018 | 34.77 | -22.28 |
| | π/2 BPSK | 670.5 | H | 137 | 70 | 2.96 | 1 / 39 | 12.38 | 15.34 | 0.034 | 36.99 | -21.65 | 13.19 | 0.021 | 34.77 | -21.58 |
| | π/2 BPSK | 680.5 | H | 145 | 77 | 3.09 | 1 / 20 | 12.92 | 16.00 | 0.040 | 36.99 | -20.99 | 13.85 | 0.024 | 34.77 | -20.92 |
| | π/2 BPSK | 690.5 | H | 101 | 73 | 3.11 | 1 / 20 | 12.18 | 15.29 | 0.034 | 36.99 | -21.70 | 13.14 | 0.021 | 34.77 | -21.63 |
| | QPSK | 670.5 | H | 137 | 70 | 2.96 | 1 / 39 | 12.59 | 15.55 | 0.036 | 36.99 | -21.44 | 13.40 | 0.022 | 34.77 | -21.38 |
| | QPSK | 680.5 | H | 145 | 77 | 3.09 | 1 / 20 | 13.21 | 16.29 | 0.043 | 36.99 | -20.69 | 14.14 | 0.026 | 34.77 | -20.63 |
| 10 MHz | QPSK | 690.5 | H | 101 | 73 | 3.11 | 1 / 20 | 12.32 | 15.43 | 0.035 | 36.99 | -21.56 | 13.28 | 0.021 | 34.77 | -21.49 |
| | 16-QAM | 690.5 | H | 101 | 73 | 3.11 | 1 / 20 | 12.12 | 15.24 | 0.033 | 36.99 | -21.75 | 13.09 | 0.020 | 34.77 | -21.69 |
| | π/2 BPSK | 668.0 | H | 137 | 70 | 2.92 | 1 / 26 | 12.33 | 15.25 | 0.034 | 36.99 | -21.74 | 13.10 | 0.020 | 34.77 | -21.67 |
| | π/2 BPSK | 680.5 | H | 145 | 77 | 3.09 | 1 / 26 | 12.79 | 15.87 | 0.039 | 36.99 | -21.12 | 13.72 | 0.024 | 34.77 | -21.05 |
| | π/2 BPSK | 693.0 | H | 101 | 73 | 3.14 | 1 / 26 | 11.82 | 14.96 | 0.031 | 36.99 | -22.03 | 12.81 | 0.019 | 34.77 | -21.96 |
| | QPSK | 668.0 | H | 137 | 70 | 2.92 | 1 / 26 | 12.47 | 15.40 | 0.035 | 36.99 | -21.59 | 13.25 | 0.021 | 34.77 | -21.52 |
| 5 MHz | QPSK | 680.5 | H | 145 | 77 | 3.09 | 1 / 26 | 12.77 | 15.85 | 0.039 | 36.99 | -21.13 | 13.70 | 0.023 | 34.77 | -21.07 |
| | QPSK | 693.0 | H | 101 | 73 | 3.14 | 1 / 26 | 12.09 | 15.23 | 0.033 | 36.99 | -21.76 | 13.08 | 0.020 | 34.77 | -21.69 |
| | 16-QAM | 680.5 | H | 145 | 77 | 3.09 | 1 / 26 | 11.60 | 14.69 | 0.029 | 36.99 | -22.30 | 12.54 | 0.018 | 34.77 | -22.23 |
| | π/2 BPSK | 665.5 | H | 137 | 70 | 2.94 | 1 / 18 | 11.74 | 14.68 | 0.029 | 36.99 | -22.30 | 12.53 | 0.018 | 34.77 | -22.24 |
| | π/2 BPSK | 680.5 | H | 145 | 77 | 3.09 | 1 / 12 | 12.81 | 15.90 | 0.039 | 36.99 | -21.09 | 13.75 | 0.024 | 34.77 | -21.02 |
| | π/2 BPSK | 695.5 | H | 101 | 73 | 3.18 | 1 / 12 | 11.77 | 14.95 | 0.031 | 36.99 | -22.04 | 12.80 | 0.019 | 34.77 | -21.97 |
| 20 MHz | QPSK | 665.5 | H | 137 | 70 | 2.94 | 1 / 18 | 11.74 | 14.69 | 0.029 | 36.99 | -22.30 | 12.54 | 0.018 | 34.77 | -22.24 |
| | QPSK | 680.5 | H | 145 | 77 | 3.09 | 1 / 12 | 13.02 | 16.10 | 0.041 | 36.99 | -20.89 | 13.95 | 0.025 | 34.77 | -20.82 |
| | QPSK | 695.5 | H | 101 | 73 | 3.18 | 1 / 12 | 11.91 | 15.09 | 0.032 | 36.99 | -21.90 | 12.94 | 0.020 | 34.77 | -21.84 |
| | 16-QAM | 680.5 | H | 145 | 77 | 3.09 | 1 / 12 | 11.25 | 14.33 | 0.027 | 36.99 | -22.66 | 12.18 | 0.017 | 34.77 | -22.59 |
| | QPSK (CP-OFDM) | 680.5 | H | 145 | 77 | 3.09 | 1 / 79 | 11.21 | 14.30 | 0.027 | 36.99 | -22.69 | 12.15 | 0.016 | 34.77 | -22.63 |
| | QPSK (Opposite Pol.) | 680.5 | V | 182 | 66 | 3.09 | 1 / 79 | 10.86 | 13.95 | 0.025 | 36.99 | -23.04 | 11.80 | 0.015 | 34.77 | -22.98 |


Table 7-5. EIRP Data (NR Band n71 – Main Ant)

| 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] |
|-----------------|-----------|-----------------|---------------------|----------------------------|------------------------|-----------------|------------|--------------|------------------|-------------|
| 1712.40 | WCDMA1700 | V | 188 | 224 | 10.42 | 9.47 | 19.89 | 0.098 | 30.00 | -10.11 |
| 1732.60 | WCDMA1700 | V | 142 | 317 | 11.15 | 9.15 | 20.30 | 0.107 | 30.00 | -9.70 |
| 1752.60 | WCDMA1700 | V | 149 | 210 | 8.99 | 9.05 | 18.04 | 0.064 | 30.00 | -11.96 |
| 1732.60 | WCDMA1700 | H | 368 | 35 | 10.17 | 9.15 | 19.32 | 0.086 | 30.00 | -10.68 |

Table 7-6. EIRP Data (WCDMA AWS – Main Ant)

| 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 | 1720.0 | H | 100 | 230 | 9.47 | 1 / 50 | 12.83 | 22.30 | 0.170 | 30.00 | -7.70 |
| | QPSK | 1745.0 | H | 101 | 231 | 9.48 | 1 / 0 | 11.73 | 21.21 | 0.132 | 30.00 | -8.79 |
| | QPSK | 1770.0 | H | 180 | 230 | 9.39 | 1 / 0 | 11.41 | 20.80 | 0.120 | 30.00 | -9.20 |
| | 16-QAM | 1720.0 | H | 100 | 230 | 9.47 | 1 / 50 | 12.13 | 21.60 | 0.145 | 30.00 | -8.40 |
| 15 MHz | QPSK | 1717.5 | H | 100 | 230 | 9.49 | 1 / 74 | 12.75 | 22.25 | 0.168 | 30.00 | -7.75 |
| | QPSK | 1745.0 | H | 101 | 231 | 9.48 | 1 / 37 | 11.89 | 21.37 | 0.137 | 30.00 | -8.63 |
| | QPSK | 1772.5 | H | 180 | 230 | 9.36 | 1 / 0 | 11.45 | 20.81 | 0.120 | 30.00 | -9.19 |
| | 16-QAM | 1717.5 | H | 100 | 230 | 9.49 | 1 / 74 | 12.13 | 21.62 | 0.145 | 30.00 | -8.38 |
| 10 MHz | QPSK | 1715.0 | H | 100 | 230 | 9.52 | 1 / 25 | 12.72 | 22.24 | 0.167 | 30.00 | -7.76 |
| | QPSK | 1745.0 | H | 101 | 231 | 9.48 | 1 / 25 | 11.72 | 21.20 | 0.132 | 30.00 | -8.80 |
| | QPSK | 1775.0 | H | 180 | 230 | 9.34 | 1 / 49 | 11.45 | 20.79 | 0.120 | 30.00 | -9.21 |
| | 16-QAM | 1715.0 | H | 100 | 230 | 9.52 | 1 / 25 | 12.04 | 21.56 | 0.143 | 30.00 | -8.44 |
| 5 MHz | QPSK | 1712.5 | H | 100 | 230 | 9.54 | 1 / 12 | 12.78 | 22.32 | 0.171 | 30.00 | -7.68 |
| | QPSK | 1745.0 | H | 101 | 231 | 9.48 | 1 / 12 | 11.84 | 21.32 | 0.136 | 30.00 | -8.68 |
| | QPSK | 1777.5 | H | 180 | 230 | 9.31 | 1 / 12 | 11.41 | 20.73 | 0.118 | 30.00 | -9.27 |
| | 16-QAM | 1712.5 | H | 100 | 230 | 9.54 | 1 / 12 | 12.17 | 21.71 | 0.148 | 30.00 | -8.29 |
| 3 MHz | QPSK | 1711.5 | H | 100 | 230 | 9.55 | 1 / 0 | 12.62 | 22.18 | 0.165 | 30.00 | -7.82 |
| | QPSK | 1745.0 | H | 101 | 231 | 9.48 | 1 / 14 | 11.72 | 21.20 | 0.132 | 30.00 | -8.80 |
| | QPSK | 1778.5 | H | 180 | 230 | 9.30 | 1 / 0 | 11.32 | 20.62 | 0.115 | 30.00 | -9.38 |
| | 16-QAM | 1711.5 | H | 100 | 230 | 9.55 | 1 / 0 | 11.86 | 21.41 | 0.138 | 30.00 | -8.59 |
| 1.4 MHz | QPSK | 1710.7 | H | 100 | 230 | 9.56 | 1 / 3 | 12.68 | 22.24 | 0.167 | 30.00 | -7.76 |
| | QPSK | 1745.0 | H | 101 | 231 | 9.48 | 1 / 3 | 11.72 | 21.20 | 0.132 | 30.00 | -8.80 |
| | QPSK | 1779.3 | H | 180 | 230 | 9.29 | 1 / 5 | 11.37 | 20.67 | 0.117 | 30.00 | -9.33 |
| | 16-QAM | 1710.7 | H | 100 | 230 | 9.56 | 1 / 3 | 12.13 | 21.69 | 0.147 | 30.00 | -8.31 |
| 20 MHz | Opposite Pol. | 1720.0 | V | 163 | 338 | 9.48 | 1 / 3 | 11.90 | 21.38 | 0.137 | 30.00 | -8.62 |

Table 7-7. EIRP Data (LTE Band 66/4 – Main Ant)


| | | | | |
|---|---|-------------------------------|-------------|-----------------------------------|
| FCC ID: PY7-95324M |  | PART 27 MEASUREMENT REPORT | SONY | Approved by: Technical Manager |
| Test Report S/N: 1M2108040087-04.PY7 | Test Dates: 8/2 – 9/23/2021 | EUT Type: Portable Handset | | Page 146 of 173 |

| 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 | $\pi/2$ BPSK | 1720.0 | H | 240 | 25 | 9.48 | 1 / 53 | 9.45 | 18.93 | 0.078 | 30.00 | -11.07 |
| | $\pi/2$ BPSK | 1745.0 | H | 352 | 215 | 9.48 | 1 / 53 | 10.03 | 19.51 | 0.089 | 30.00 | -10.49 |
| | $\pi/2$ BPSK | 1770.0 | H | 237 | 21 | 9.44 | 1 / 26 | 8.59 | 18.03 | 0.064 | 30.00 | -11.97 |
| | QPSK | 1720.0 | H | 240 | 25 | 9.48 | 1 / 53 | 9.42 | 18.90 | 0.078 | 30.00 | -11.10 |
| | QPSK | 1745.0 | H | 352 | 215 | 9.48 | 1 / 53 | 9.87 | 19.35 | 0.086 | 30.00 | -10.65 |
| | QPSK | 1770.0 | H | 237 | 21 | 9.44 | 1 / 26 | 8.56 | 18.00 | 0.063 | 30.00 | -12.00 |
| 15 MHz | 16-QAM | 1745.0 | H | 352 | 215 | 9.48 | 1 / 53 | 9.32 | 18.80 | 0.076 | 30.00 | -11.20 |
| | $\pi/2$ BPSK | 1717.5 | H | 240 | 25 | 9.49 | 1 / 1 | 9.57 | 19.06 | 0.081 | 30.00 | -10.94 |
| | $\pi/2$ BPSK | 1745.0 | H | 352 | 215 | 9.48 | 1 / 40 | 10.06 | 19.54 | 0.090 | 30.00 | -10.46 |
| | $\pi/2$ BPSK | 1772.5 | H | 237 | 21 | 9.36 | 1 / 40 | 8.76 | 18.12 | 0.065 | 30.00 | -11.88 |
| | QPSK | 1717.5 | H | 240 | 25 | 9.49 | 1 / 77 | 9.34 | 18.83 | 0.076 | 30.00 | -11.17 |
| | QPSK | 1745.0 | H | 352 | 215 | 9.48 | 1 / 1 | 9.79 | 19.27 | 0.085 | 30.00 | -10.73 |
| 10 MHz | QPSK | 1772.5 | H | 237 | 21 | 9.36 | 1 / 40 | 8.59 | 17.95 | 0.062 | 30.00 | -12.05 |
| | 16-QAM | 1745.0 | H | 352 | 215 | 9.48 | 1 / 1 | 9.44 | 18.92 | 0.078 | 30.00 | -11.08 |
| | $\pi/2$ BPSK | 1715.0 | H | 240 | 25 | 9.52 | 1 / 1 | 9.46 | 18.97 | 0.079 | 30.00 | -11.03 |
| | $\pi/2$ BPSK | 1745.0 | H | 352 | 215 | 9.48 | 1 / 1 | 9.98 | 19.46 | 0.088 | 30.00 | -10.54 |
| | $\pi/2$ BPSK | 1775.0 | H | 237 | 21 | 9.34 | 1 / 1 | 8.59 | 17.93 | 0.062 | 30.00 | -12.07 |
| | QPSK | 1715.0 | H | 240 | 25 | 9.52 | 1 / 50 | 9.23 | 18.74 | 0.075 | 30.00 | -11.26 |
| 5 MHz | QPSK | 1745.0 | H | 352 | 215 | 9.48 | 1 / 1 | 9.73 | 19.21 | 0.083 | 30.00 | -10.79 |
| | QPSK | 1775.0 | H | 237 | 21 | 9.34 | 1 / 50 | 8.38 | 17.72 | 0.059 | 30.00 | -12.28 |
| | 16-QAM | 1745.0 | H | 352 | 215 | 9.48 | 1 / 1 | 9.50 | 18.98 | 0.079 | 30.00 | -11.02 |
| | $\pi/2$ BPSK | 1712.5 | H | 240 | 25 | 9.54 | 1 / 23 | 9.29 | 18.83 | 0.076 | 30.00 | -11.17 |
| | $\pi/2$ BPSK | 1745.0 | H | 352 | 215 | 9.48 | 1 / 1 | 9.99 | 19.47 | 0.089 | 30.00 | -10.53 |
| | $\pi/2$ BPSK | 1777.5 | H | 237 | 21 | 9.31 | 1 / 13 | 8.56 | 17.87 | 0.061 | 30.00 | -12.13 |
| 15 MHz | QPSK | 1712.5 | H | 240 | 25 | 9.54 | 1 / 23 | 9.23 | 18.77 | 0.075 | 30.00 | -11.23 |
| | QPSK | 1745.0 | H | 352 | 215 | 9.48 | 1 / 1 | 9.63 | 19.11 | 0.081 | 30.00 | -10.89 |
| | QPSK | 1777.5 | H | 237 | 21 | 9.31 | 1 / 13 | 8.39 | 17.70 | 0.059 | 30.00 | -12.30 |
| | 16-QAM | 1745.0 | H | 352 | 215 | 9.48 | 1 / 1 | 9.42 | 18.90 | 0.078 | 30.00 | -11.10 |
| 15 MHz | QPSK (CP-OFDM) | 1745.0 | H | 352 | 215 | 9.48 | 1 / 40 | 9.45 | 18.93 | 0.078 | 30.00 | -11.07 |
| | QPSK (Opposite Pol.) | 1745.0 | V | 285 | 68 | 9.48 | 1 / 40 | 9.09 | 18.57 | 0.072 | 30.00 | -11.43 |

Table 7-8. EIRP Data (NR Band n66 – Main Ant)

| 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] | ERP [dBm] | ERP [Watts] | ERP Limit [dBm] | Margin [dB] |
|-----------|---------------|-----------------|-----------------|---------------------|----------------------------|-----------------|----------------|------------------------|--------------|--------------|------------------|-------------|--------------|-------------|-----------------|-------------|
| 10 MHz | QPSK | 782.0 | H | 118 | 48 | 6.09 | 1 / 49 | 12.98 | 19.07 | 0.081 | 36.99 | -17.92 | 16.92 | 0.049 | 34.77 | -17.85 |
| | 16-QAM | 782.0 | H | 118 | 48 | 6.09 | 1 / 49 | 12.50 | 18.59 | 0.072 | 36.99 | -18.40 | 16.44 | 0.044 | 34.77 | -18.33 |
| 5 MHz | QPSK | 779.5 | H | 118 | 48 | 5.97 | 1 / 24 | 13.02 | 18.99 | 0.079 | 36.99 | -18.00 | 16.84 | 0.048 | 34.77 | -17.94 |
| | QPSK | 782.0 | H | 118 | 48 | 6.09 | 1 / 0 | 13.09 | 19.18 | 0.083 | 36.99 | -17.81 | 17.03 | 0.050 | 34.77 | -17.74 |
| | QPSK | 784.5 | H | 118 | 48 | 6.17 | 1 / 24 | 12.87 | 19.04 | 0.080 | 36.99 | -17.95 | 16.89 | 0.049 | 34.77 | -17.88 |
| | 16-QAM | 779.5 | H | 118 | 48 | 5.97 | 1 / 24 | 12.49 | 18.46 | 0.070 | 36.99 | -18.53 | 16.31 | 0.043 | 34.77 | -18.47 |
| 10 MHz | Opposite Pol. | 782.0 | V | 146 | 322 | 6.09 | 1 / 49 | 12.40 | 18.49 | 0.071 | 36.99 | -18.50 | 16.34 | 0.043 | 34.77 | -18.43 |

Table 7-9. ERP Data (LTE Band 13 – Sub Ant)

| | | | | | |
|---|---|-------------------------------|----------------------------|------|-----------------------------------|
| FCC ID: PY7-95324M |  | | PART 27 MEASUREMENT REPORT | SONY | Approved by: Technical Manager |
| Test Report S/N: 1M2108040087-04.PY7 | Test Dates: 8/2 – 9/23/2021 | EUT Type: Portable Handset | | | Page 147 of 173 |

7.7 Radiated Spurious Emissions Measurements

Test Overview

Radiated spurious emissions measurements are performed using the substitution method described in ANSI/TIA-603-E-2016 with the EUT transmitting into an integral antenna. Measurements on signals operating below 1GHz are performed using horizontally and vertically polarized tuned dipole 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

KDB 971168 D01 v03r01 – Section 5.8

ANSI/TIA-603-E-2016 – Section 2.2.12

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: PY7-95324M |  PART 27 MEASUREMENT REPORT  | | Approved by: Technical Manager |
| Test Report S/N: 1M2108040087-04.PY7 | Test Dates: 8/2 – 9/23/2021 | EUT Type: Portable Handset | Page 148 of 173 |

Test Setup

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

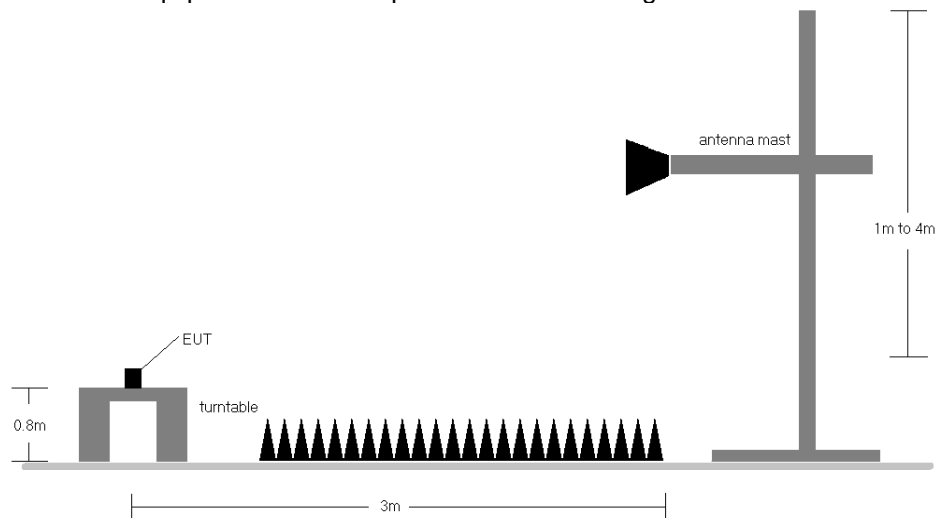


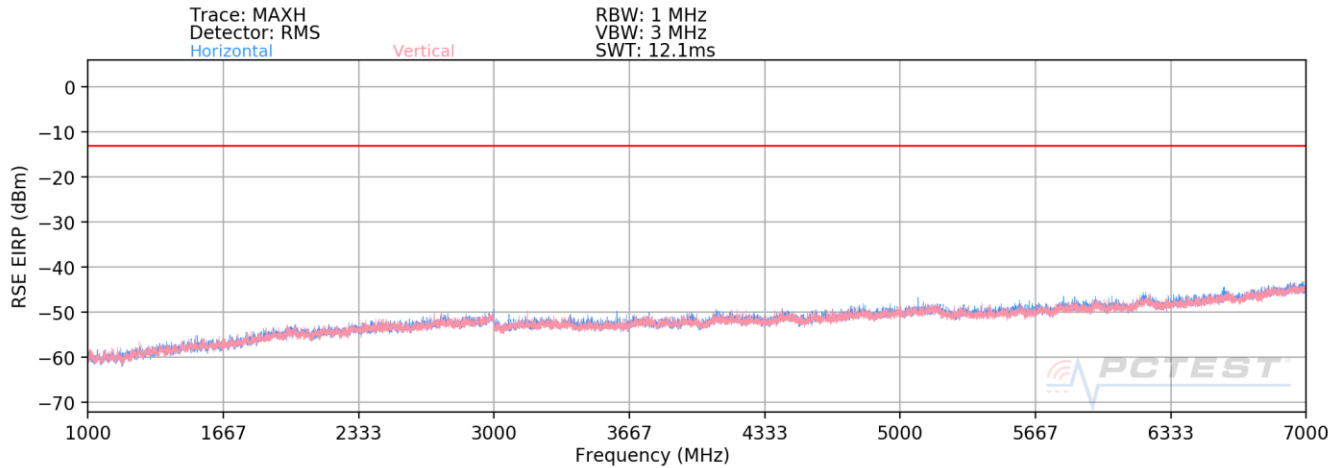
Figure 7-7. Test Instrument & Measurement Setup

Test Notes

- Field strengths are calculated using the Measurement quantity conversions in KDB 971168 Section 5.8.4.
 - $E(\text{dB}\mu\text{V/m}) = \text{Measured amplitude level (dBm)} + 107 + \text{Cable Loss (dB)} + \text{Antenna Factor (dB/m)}$
 - $\text{EIRP (dBm)} = E(\text{dB}\mu\text{V/m}) + 20\log D - 104.8$; where D is the measurement distance in meters.
- 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.
- This unit was tested with its standard battery.
- The spectrum is measured from 9kHz to the 10th harmonic of the fundamental frequency of the transmitter. The worst-case emissions are reported.
- 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.
- The "-" shown in the following RSE tables are used to denote a noise floor measurement.
- 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.
- 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, is subject to the rules under which the NR carrier operates. Spurious emission caused by the LTE carrier must meet the requirements of the rules under which the LTE carrier operates.

| | | | | |
|---|--|-------------------------------|-------------|-----------------------------------|
| FCC ID: PY7-95324M | PCTEST Proud to be part of element | PART 27 MEASUREMENT REPORT | SONY | Approved by: Technical Manager |
| Test Report S/N: 1M2108040087-04.PY7 | Test Dates: 8/2 – 9/23/2021 | EUT Type: Portable Handset | | Page 149 of 173 |

LTE Band 71 – Main Ant



Plot 7-242. Radiated Spurious Plot (LTE Band 71 – Main Ant)

| | |
|------------------|--------|
| Bandwidth (MHz): | 20 |
| Frequency (MHz): | 673 |
| 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] |
|-----------------|-----------------|---------------------|----------------------------|----------------------|-------------|-------------------------|------------------------------------|-------------|-------------|
| 1346.00 | H | 371 | 277 | -71.01 | -1.26 | 34.73 | -60.52 | -13.00 | -47.52 |
| 2019.00 | H | - | - | -70.64 | 2.49 | 38.85 | -56.40 | -13.00 | -43.40 |
| 2692.00 | H | - | - | -71.10 | 3.88 | 39.78 | -55.48 | -13.00 | -42.48 |

Table 7-10. Radiated Spurious Data (LTE Band 71 – Low Channel – Main Ant)

| | |
|------------------|--------|
| Bandwidth (MHz): | 20 |
| Frequency (MHz): | 680.5 |
| 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] |
|-----------------|-----------------|---------------------|----------------------------|----------------------|-------------|-------------------------|------------------------------------|-------------|-------------|
| 1361.00 | H | 344 | 368 | -68.03 | -1.44 | 37.53 | -57.73 | -13.00 | -44.73 |
| 2041.50 | H | - | - | -71.61 | 2.17 | 37.56 | -57.70 | -13.00 | -44.70 |
| 2722.00 | H | - | - | -71.05 | 4.11 | 40.06 | -55.19 | -13.00 | -42.19 |

Table 7-11. Radiated Spurious Data (LTE Band 71 – Mid Channel – Main Ant)

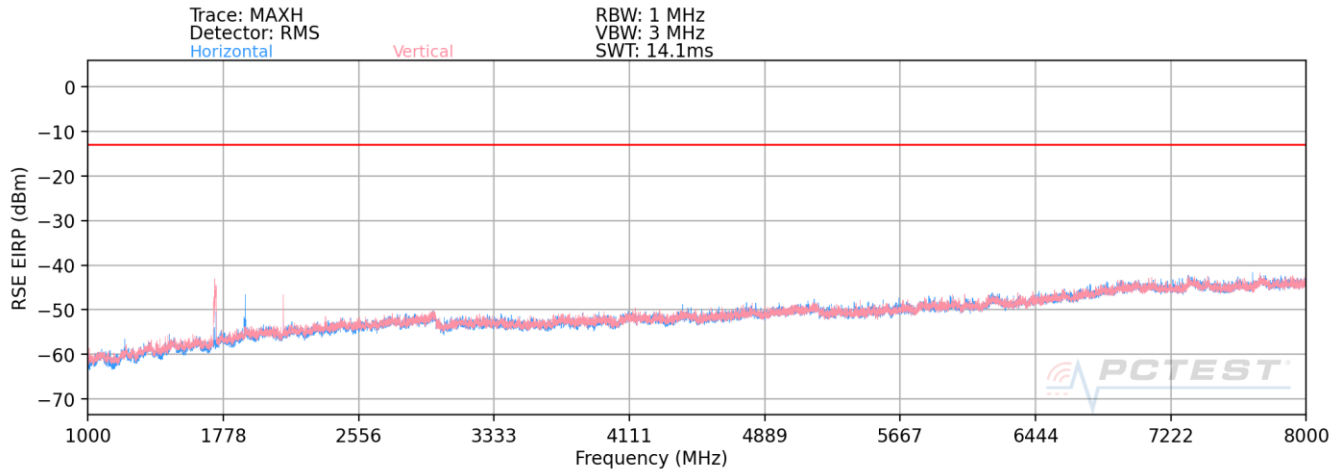
| | |
|------------------|--------|
| Bandwidth (MHz): | 20 |
| Frequency (MHz): | 688 |
| RB / Offset: | 1 / 50 |

| 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] |
|-----------------|-----------------|---------------------|----------------------------|----------------------|-------------|-------------------------|------------------------------------|-------------|-------------|
| 1376.00 | H | 218 | 48 | -70.44 | -1.49 | 35.07 | -60.18 | -13.00 | -47.18 |
| 2064.00 | H | - | - | -69.83 | 2.23 | 39.40 | -55.86 | -13.00 | -42.86 |
| 2752.00 | H | - | - | -67.73 | 4.68 | 43.95 | -51.31 | -13.00 | -38.31 |

Table 7-12. Radiated Spurious Data (LTE Band 71 – High Channel – Main Ant)

| | | | | |
|---|--|-------------------------------|-------------|-----------------------------------|
| FCC ID: PY7-95324M | PCTEST Proud to be part of element | PART 27 MEASUREMENT REPORT | SONY | Approved by: Technical Manager |
| Test Report S/N: 1M2108040087-04.PY7 | Test Dates: 8/2 – 9/23/2021 | EUT Type: Portable Handset | | Page 150 of 173 |

LTE Band 12 – Main Ant



Plot 7-243. Radiated Spurious Plot (LTE Band 12 – Main Ant)

| | |
|------------------|--------|
| Bandwidth (MHz): | 10 |
| Frequency (MHz): | 704 |
| RB / Offset: | 1 / 25 |

| 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] |
|-----------------|-----------------|---------------------|----------------------------|----------------------|-------------|-------------------------|------------------------------------|-------------|-------------|
| 1408.00 | V | 149 | 284 | -65.98 | -1.40 | 39.62 | -55.64 | -13.00 | -42.64 |
| 2112.00 | V | 163 | 271 | -60.83 | 2.12 | 48.29 | -46.97 | -13.00 | -33.97 |
| 2816.00 | V | - | - | -68.95 | 4.03 | 42.08 | -53.17 | -13.00 | -40.17 |
| 3520.00 | V | - | - | -68.95 | 4.43 | 42.48 | -52.78 | -13.00 | -39.78 |

Table 7-13. Radiated Spurious Data (LTE Band 12 – Low Channel – Main Ant)

| | |
|------------------|--------|
| Bandwidth (MHz): | 10 |
| Frequency (MHz): | 707.5 |
| RB / Offset: | 1 / 25 |


| 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] |
|-----------------|-----------------|---------------------|----------------------------|----------------------|-------------|-------------------------|------------------------------------|-------------|-------------|
| 1415.00 | V | 237 | 294 | -66.05 | -1.38 | 39.57 | -55.69 | -13.00 | -42.69 |
| 2122.50 | V | 237 | 228 | -59.30 | 2.16 | 49.86 | -45.40 | -13.00 | -32.40 |
| 2830.00 | V | - | - | -68.89 | 4.10 | 42.21 | -53.04 | -13.00 | -40.04 |
| 3537.50 | V | - | - | -69.46 | 4.74 | 42.28 | -52.98 | -13.00 | -39.98 |

Table 7-14. Radiated Spurious Data (LTE Band 12 – Mid Channel – Main Ant)

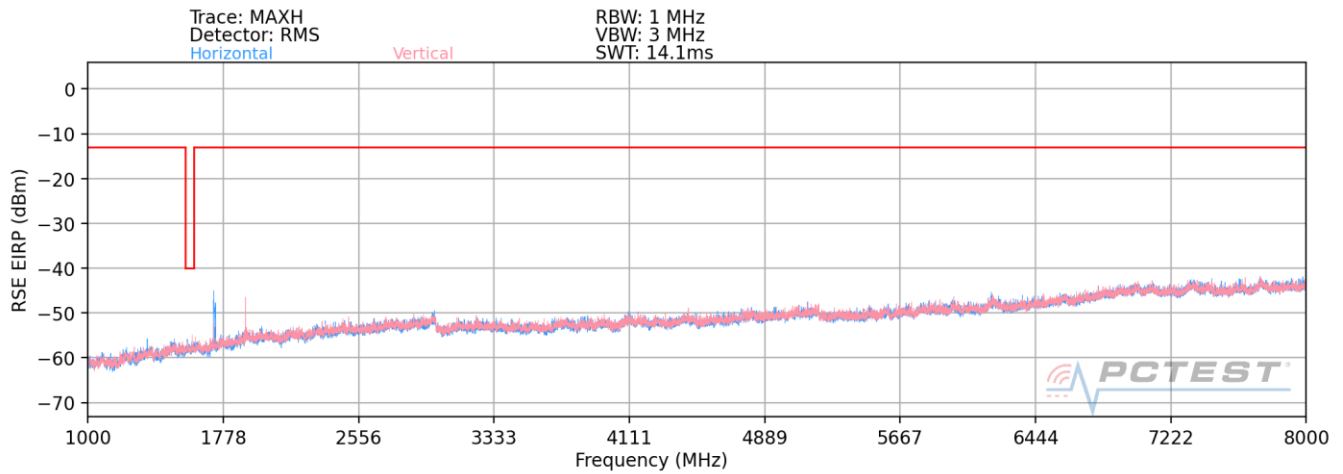
| | | | | |
|---|--|-------------------------------|-------------|-----------------------------------|
| FCC ID: PY7-95324M | PCTEST Proud to be part of element | PART 27 MEASUREMENT REPORT | SONY | Approved by: Technical Manager |
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| Bandwidth (MHz): | 10 | | | | | | | | |
|------------------|-----------------|---------------------|----------------------------|----------------------|-------------|-------------------------|------------------------------------|-------------|-------------|
| Frequency (MHz): | 711 | | | | | | | | |
| RB / Offset: | 1 / 25 | | | | | | | | |
| 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] |
| 1422.00 | V | 265 | 271 | -65.58 | -1.40 | 40.02 | -55.24 | -13.00 | -42.24 |
| 2133.00 | V | 251 | 286 | -60.90 | 2.19 | 48.29 | -46.96 | -13.00 | -33.96 |
| 2844.00 | V | - | - | -68.10 | 4.09 | 42.99 | -52.27 | -13.00 | -39.27 |
| 3555.00 | V | - | - | -68.84 | 5.09 | 43.25 | -52.00 | -13.00 | -39.00 |

Table 7-15. Radiated Spurious Data (LTE Band 12 – High Channel – Main Ant)

| | | | | | |
|---|---|-------------------------------|----------------------------|------|-----------------------------------|
| FCC ID: PY7-95324M |  | | PART 27 MEASUREMENT REPORT | SONY | Approved by: Technical Manager |
| Test Report S/N: 1M2108040087-04.PY7 | Test Dates: 8/2 – 9/23/2021 | EUT Type: Portable Handset | | | Page 152 of 173 |

LTE Band 13 – Main Ant



Plot 7-244. Radiated Spurious Plot (LTE Band 13 – Main Ant)

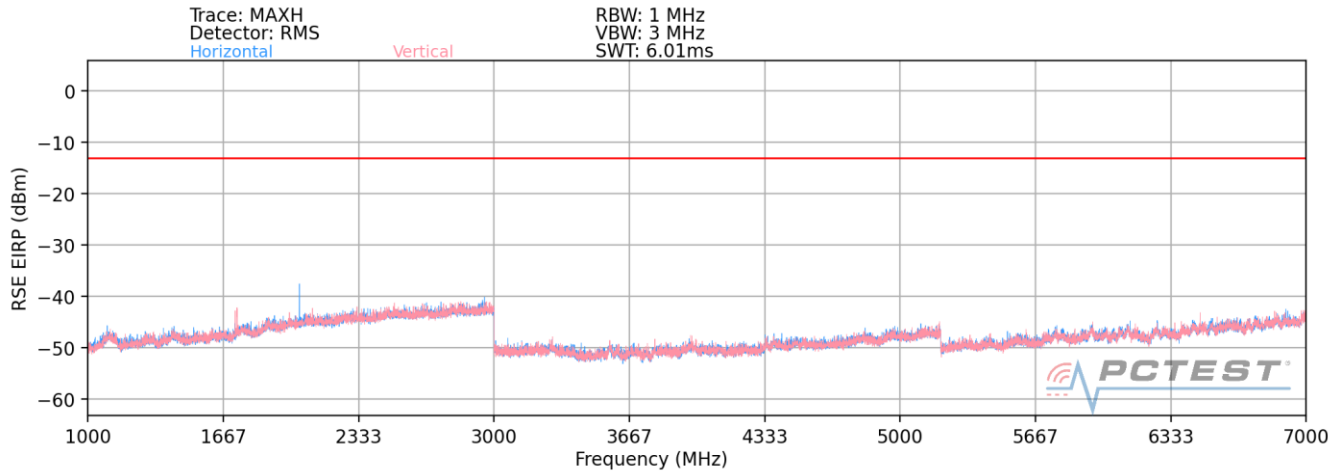
| | |
|------------------|--------|
| Bandwidth (MHz): | 10 |
| Frequency (MHz): | 782 |
| RB / Offset: | 1 / 25 |

| 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] |
|-----------------|-----------------|---------------------|----------------------------|----------------------|-------------|-------------------------|------------------------------------|-------------|-------------|
| 1564.00 | H | 185 | 328 | -68.38 | -0.07 | 38.55 | -56.70 | -40.00 | -16.70 |
| 2346.00 | H | 107 | 128 | -63.72 | 3.06 | 46.34 | -48.92 | -13.00 | -35.92 |
| 3128.00 | H | - | - | -69.41 | 4.57 | 42.16 | -53.10 | -13.00 | -40.10 |
| 3910.00 | H | - | - | -69.12 | 4.74 | 42.62 | -52.64 | -13.00 | -39.64 |
| 4692.00 | H | - | - | -69.92 | 6.01 | 43.09 | -52.16 | -13.00 | -39.16 |
| 5474.00 | H | - | - | -69.62 | 8.36 | 45.74 | -49.51 | -13.00 | -36.51 |

Table 7-16. Radiated Spurious Data (LTE Band 13 – Low Channel – Main Ant)

| | | | | |
|---|--|-------------------------------|-------------|-----------------------------------|
| FCC ID: PY7-95324M | PCTEST Proud to be part of element | PART 27 MEASUREMENT REPORT | SONY | Approved by: Technical Manager |
| Test Report S/N: 1M2108040087-04.PY7 | Test Dates: 8/2 – 9/23/2021 | EUT Type: Portable Handset | | Page 153 of 173 |

NR Band n71 – Main Ant



Plot 7-245. Radiated Spurious Plot (NR Band n71 – Main Ant)

| | |
|------------------|-------------|
| Bandwidth (MHz): | 20 |
| Frequency (MHz): | 673 |
| RB / Offset: | 1 / 53 |
| Mode: | Stand Alone |

| 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] |
|-----------------|-----------------|---------------------|----------------------------|----------------------|-------------|-------------------------|------------------------------------|-------------|-------------|
| 1346.00 | V | 340 | 75 | -68.57 | -4.55 | 33.88 | -61.37 | -13.00 | -48.37 |
| 2019.00 | V | 111 | 261 | -68.21 | -2.27 | 36.52 | -58.74 | -13.00 | -45.74 |
| 2692.00 | V | - | - | -70.15 | 1.34 | 38.19 | -57.06 | -13.00 | -44.06 |
| 3365.00 | V | - | - | -70.79 | 6.06 | 42.27 | -52.98 | -13.00 | -39.98 |

Table 7-17. Radiated Spurious Data (NR Band n71 – Low Channel – Main Ant)

| | |
|------------------|-------------|
| Bandwidth (MHz): | 20 |
| Frequency (MHz): | 680.5 |
| RB / Offset: | 1 / 53 |
| Mode: | Stand Alone |

| 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] |
|-----------------|-----------------|---------------------|----------------------------|----------------------|-------------|-------------------------|------------------------------------|-------------|-------------|
| 1361.00 | V | 381 | 65 | -68.78 | -4.27 | 33.95 | -61.31 | -13.00 | -48.31 |
| 2041.50 | V | 102 | 270 | -67.90 | -2.21 | 36.89 | -58.37 | -13.00 | -45.37 |
| 2722.00 | V | - | - | -70.50 | 1.94 | 38.44 | -56.82 | -13.00 | -43.82 |
| 3402.50 | V | - | - | -70.90 | 5.44 | 41.54 | -53.72 | -13.00 | -40.72 |


Table 7-18. Radiated Spurious Data (NR Band n71 – Mid Channel – Main Ant)

| | | | | |
|---|--|-------------------------------|-------------|-----------------------------------|
| FCC ID: PY7-95324M | PCTEST Proud to be part of element | PART 27 MEASUREMENT REPORT | SONY | Approved by: Technical Manager |
| Test Report S/N: 1M2108040087-04.PY7 | Test Dates: 8/2 – 9/23/2021 | EUT Type: Portable Handset | | Page 154 of 173 |

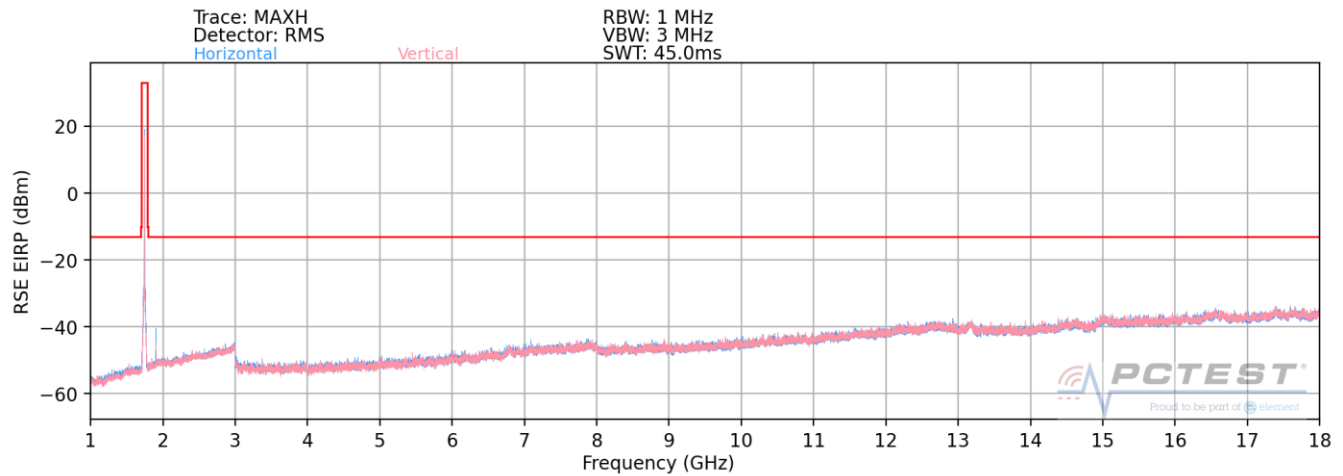
| | |
|-------------------------|-------------|
| Bandwidth (MHz): | 20 |
| Frequency (MHz): | 688 |
| RB / Offset: | 1 / 53 |
| Mode: | Stand Alone |

| 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] |
|-----------------|-----------------|---------------------|----------------------------|----------------------|-------------|-------------------------|------------------------------------|-------------|-------------|
| 1376.00 | V | 342 | 55 | -69.01 | -3.78 | 34.21 | -61.05 | -13.00 | -48.05 |
| 2064.00 | V | 107 | 267 | -67.54 | -1.89 | 37.57 | -57.69 | -13.00 | -44.69 |
| 2752.00 | V | - | - | -70.14 | 2.01 | 38.87 | -56.39 | -13.00 | -43.39 |
| 3440.00 | V | - | - | -71.21 | 5.74 | 41.53 | -53.73 | -13.00 | -40.73 |

Table 7-19. Radiated Spurious Data (NR Band n71 – High Channel – Main Ant)

| | | | | |
|--|---|--------------------------------------|-------------|--|
| FCC ID: PY7-95324M |  PCTEST <small>Proud to be part of element</small> | PART 27 MEASUREMENT REPORT | SONY | Approved by: Technical Manager |
| Test Report S/N: 1M2108040087-04.PY7 | Test Dates: 8/2 – 9/23/2021 | EUT Type: Portable Handset | | Page 155 of 173 |

NR Band n71 – B66



Plot 7-246. Radiated Spurious Plot (NR Band n71 – B66)

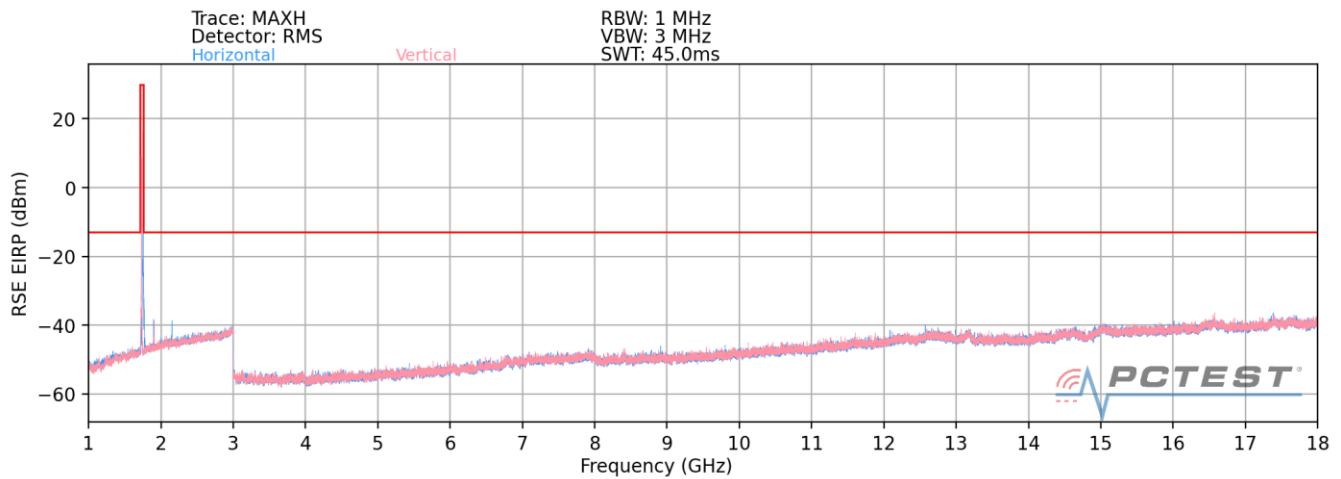
| | |
|------------------|-----------------|
| Bandwidth (MHz): | 20 / 20 |
| Frequency (MHz): | 1745 / 680.5 |
| RB / Offset: | 1 / 50 & 1 / 53 |
| Mode: | EN-DC |
| Anchor Band: | LTE Band 66 |

| 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] |
|-----------------|-----------------|---------------------|----------------------------|----------------------|-------------|-------------------------|------------------------------------|-------------|-------------|
| 1444.0 | H | - | - | -68.55 | 0.67 | 39.12 | -56.14 | -13.00 | -43.14 |
| 2507.0 | H | - | - | -69.77 | 5.31 | 42.54 | -52.72 | -13.00 | -39.72 |
| 2808.0 | H | - | - | -69.00 | 5.70 | 43.70 | -51.55 | -13.00 | -38.55 |
| 3570.0 | H | - | - | -72.30 | 6.88 | 41.58 | -53.67 | -13.00 | -40.67 |

Table 7-20. Radiated Spurious Data (NR Band n71 – B66)

| | | | | |
|---|--|-------------------------------|-------------|-----------------------------------|
| FCC ID: PY7-95324M | PCTEST Proud to be part of element | PART 27 MEASUREMENT REPORT | SONY | Approved by: Technical Manager |
| Test Report S/N: 1M2108040087-04.PY7 | Test Dates: 8/2 – 9/23/2021 | EUT Type: Portable Handset | | Page 156 of 173 |

WCDMA AWS – Main Ant



Plot 7-247. Radiated Spurious Plot (WCDMA AWS – Main Ant)

| | |
|------------------|-----------|
| Mode: | WCDMA RMC |
| Channel: | 1312 |
| Frequency (MHz): | 1712.4 |

| 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] |
|-----------------|-----------------|---------------------|----------------------------|----------------------|-------------|-------------------------|------------------------------------|-------------|-------------|
| 3424.80 | H | - | - | -71.61 | 5.25 | 40.64 | -54.62 | -13.00 | -41.62 |
| 5137.20 | H | - | - | -73.00 | 7.41 | 41.41 | -53.85 | -13.00 | -40.85 |
| 6849.60 | H | - | - | -74.52 | 11.03 | 43.51 | -51.74 | -13.00 | -38.74 |

7-21. Radiated Spurious Data (WCDMA AWS – Low Channel – Main Ant)

| | |
|------------------|-----------|
| Mode: | WCDMA RMC |
| Channel: | 1413 |
| Frequency (MHz): | 1732.6 |



| 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] |
|-----------------|-----------------|---------------------|----------------------------|----------------------|-------------|-------------------------|------------------------------------|-------------|-------------|
| 3465.20 | H | - | - | -69.73 | 5.99 | 43.26 | -52.00 | -13.00 | -39.00 |
| 5197.80 | H | 339 | 308 | -72.52 | 7.26 | 41.74 | -53.52 | -13.00 | -40.52 |
| 6930.40 | H | - | - | -73.03 | 11.30 | 45.27 | -49.98 | -13.00 | -36.98 |
| 8663.00 | H | - | - | -75.09 | 13.28 | 45.19 | -50.07 | -13.00 | -37.07 |

Table 7-22. Radiated Spurious Data (WCDMA AWS – Mid Channel – Main Ant)

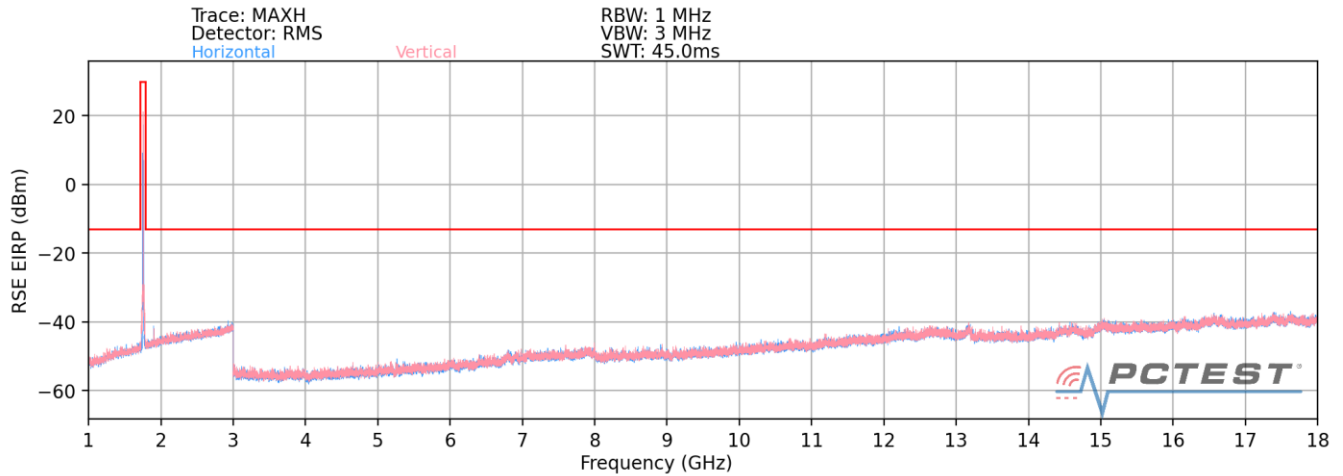
| | | | | |
|---|--|-------------------------------|-------------|-----------------------------------|
| FCC ID: PY7-95324M | PCTEST Proud to be part of element | PART 27 MEASUREMENT REPORT | SONY | Approved by: Technical Manager |
| Test Report S/N: 1M2108040087-04.PY7 | Test Dates: 8/2 – 9/23/2021 | EUT Type: Portable Handset | | Page 157 of 173 |

| Mode: | WCDMA RMC | | | | | | | | |
|-------------------------|--------------------|------------------------|----------------------------------|----------------------------|----------------|-------------------------------|--|----------------|----------------|
| Channel: | 1513 | | | | | | | | |
| Frequency (MHz): | 1752.6 | | | | | | | | |
| 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] |
| 3505.20 | H | - | - | -71.69 | 5.30 | 40.61 | -54.64 | -13.00 | -41.64 |
| 5257.80 | H | - | - | -71.28 | 7.85 | 43.57 | -51.68 | -13.00 | -38.68 |
| 7010.40 | H | - | - | -72.59 | 10.89 | 45.30 | -49.96 | -13.00 | -36.96 |
| 8763.00 | H | - | - | -74.89 | 13.36 | 45.47 | -49.79 | -13.00 | -36.79 |

Table 7-23. Radiated Spurious Data (WCDMA AWS – High Channel – Main Ant)

| | | | |
|--|---|--------------------------------------|--|
| FCC ID: PY7-95324M |  PART 27 MEASUREMENT REPORT  | | Approved by: Technical Manager |
| Test Report S/N: 1M2108040087-04.PY7 | Test Dates: 8/2 – 9/23/2021 | EUT Type: Portable Handset | Page 158 of 173 |

LTE Band 66/4 – Main Ant



Plot 7-248. Radiated Spurious Plot (LTE Band 66/4 – Main Ant)

| | |
|------------------|--------|
| Bandwidth (MHz): | 20 |
| Frequency (MHz): | 1720 |
| 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] |
|-----------------|-----------------|---------------------|----------------------------|----------------------|-------------|-------------------------|------------------------------------|-------------|-------------|
| 3440.00 | H | - | - | -71.69 | 5.53 | 40.84 | -54.42 | -13.00 | -41.42 |
| 5160.00 | H | 112 | 110 | -68.70 | 7.58 | 45.88 | -49.38 | -13.00 | -36.38 |
| 6880.00 | H | - | - | -71.71 | 11.31 | 46.60 | -48.66 | -13.00 | -35.66 |
| 8600.00 | H | - | - | -72.88 | 12.99 | 47.11 | -48.15 | -13.00 | -35.15 |

Table 7-24. Radiated Spurious Data (LTE Band 66/4 – Low Channel – Main Ant)

| | |
|------------------|--------|
| Bandwidth (MHz): | 20 |
| Frequency (MHz): | 1745 |
| 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] |
|-----------------|-----------------|---------------------|----------------------------|----------------------|-------------|-------------------------|------------------------------------|-------------|-------------|
| 3490.00 | H | - | - | -68.99 | 5.59 | 43.60 | -51.66 | -13.00 | -38.66 |
| 5235.00 | H | 242 | 234 | -69.54 | 7.19 | 44.65 | -50.61 | -13.00 | -37.61 |
| 6980.00 | H | - | - | -71.07 | 11.17 | 47.10 | -48.16 | -13.00 | -35.16 |
| 8725.00 | H | - | - | -71.71 | 13.37 | 48.66 | -46.60 | -13.00 | -33.60 |

Table 7-25. Radiated Spurious Data (LTE Band 66/4 – Mid Channel – Main Ant)

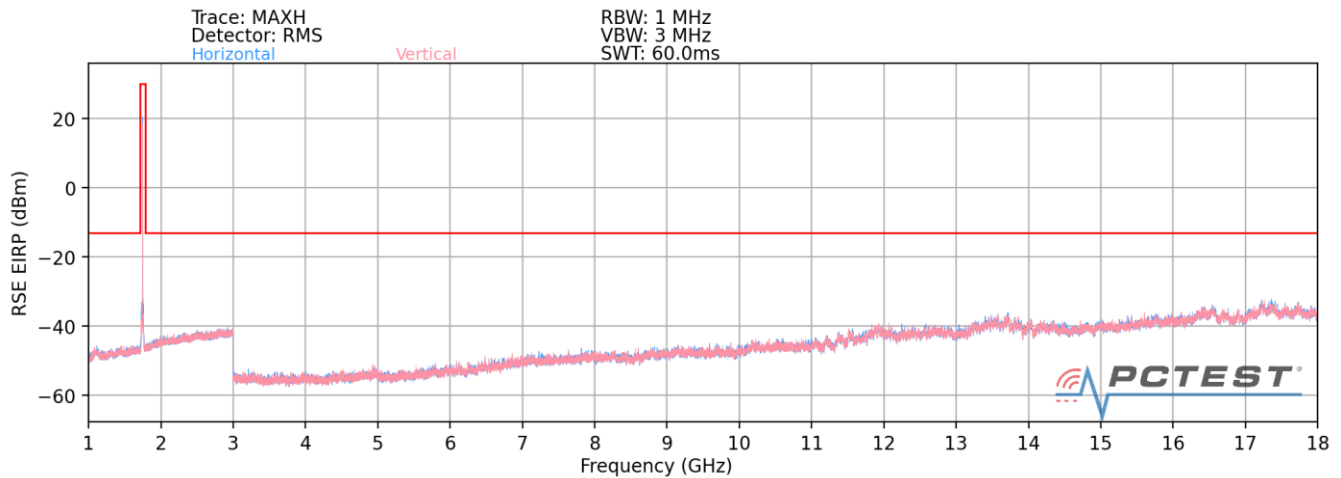
| | | | | |
|---|--|-------------------------------|-------------|-----------------------------------|
| FCC ID: PY7-95324M | PCTEST Proud to be part of element | PART 27 MEASUREMENT REPORT | SONY | Approved by: Technical Manager |
| Test Report S/N: 1M2108040087-04.PY7 | Test Dates: 8/2 – 9/23/2021 | EUT Type: Portable Handset | | Page 159 of 173 |

| Bandwidth (MHz): | 20 | | | | | | | | |
|------------------|-----------------|---------------------|----------------------------|----------------------|-------------|-------------------------|------------------------------------|-------------|-------------|
| Frequency (MHz): | 1770 | | | | | | | | |
| 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] |
| 3540.00 | H | - | - | -69.78 | 5.73 | 42.95 | -52.31 | -13.00 | -39.31 |
| 5310.00 | H | 328 | 239 | -67.66 | 7.54 | 46.88 | -48.37 | -13.00 | -35.37 |
| 7080.00 | H | - | - | -70.74 | 12.23 | 48.49 | -46.77 | -13.00 | -33.77 |
| 8850.00 | H | - | - | -72.33 | 13.54 | 48.21 | -47.05 | -13.00 | -34.05 |

Table 7-26. Radiated Spurious Data (LTE Band 66/4 – High Channel – Main Ant)

| | | | | | |
|---|---|-------------------------------|----------------------------|------|-----------------------------------|
| FCC ID: PY7-95324M |  | | PART 27 MEASUREMENT REPORT | SONY | Approved by: Technical Manager |
| Test Report S/N: 1M2108040087-04.PY7 | Test Dates: 8/2 – 9/23/2021 | EUT Type: Portable Handset | | | Page 160 of 173 |

NR Band n66 – Main Ant



Plot 7-249. Radiated Spurious Plot (NR Band n66 – Main Ant)

| | |
|------------------|-------------|
| Bandwidth (MHz): | 40 |
| Frequency (MHz): | 1870 |
| RB / Offset: | 1 / 108 |
| Mode: | Stand Alone |

| 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] |
|-----------------|-----------------|---------------------|----------------------------|----------------------|-------------|-------------------------|------------------------------------|-------------|-------------|
| 3740.00 | V | - | - | -73.64 | 7.53 | 40.89 | -54.37 | -13.00 | -41.37 |
| 5610.00 | V | - | - | -74.43 | 10.98 | 43.55 | -51.71 | -13.00 | -38.71 |
| 7480.00 | V | - | - | -75.37 | 15.72 | 47.35 | -47.91 | -13.00 | -34.91 |

Table 7-27. Radiated Spurious Data (NR Band n66 – Low Channel – Main Ant)

| | |
|------------------|-------------|
| Bandwidth (MHz): | 40 |
| Frequency (MHz): | 1880 |
| RB / Offset: | 1 / 108 |
| Mode: | Stand Alone |

| 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] |
|-----------------|-----------------|---------------------|----------------------------|----------------------|-------------|-------------------------|------------------------------------|-------------|-------------|
| 3760.00 | V | - | - | -74.20 | 7.74 | 40.54 | -54.71 | -13.00 | -41.71 |
| 5640.00 | V | - | - | -73.11 | 10.56 | 44.45 | -50.81 | -13.00 | -37.81 |
| 7520.00 | V | - | - | -72.87 | 15.71 | 49.84 | -45.42 | -13.00 | -32.42 |


Table 7-28. Radiated Spurious Data (NR Band n66 – Mid Channel – Main Ant)

| | | | | |
|---|--|-------------------------------|-------------|-----------------------------------|
| FCC ID: PY7-95324M | PCTEST Proud to be part of element | PART 27 MEASUREMENT REPORT | SONY | Approved by: Technical Manager |
| Test Report S/N: 1M2108040087-04.PY7 | Test Dates: 8/2 – 9/23/2021 | EUT Type: Portable Handset | | Page 161 of 173 |

| | | | | | | | | | |
|-------------------------|-------------|--|--|--|--|--|--|--|--|
| Bandwidth (MHz): | 40 | | | | | | | | |
| Frequency (MHz): | 1890 | | | | | | | | |
| RB / Offset: | 1 / 108 | | | | | | | | |
| Mode: | Stand Alone | | | | | | | | |

| 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] |
|-----------------|-----------------|---------------------|----------------------------|----------------------|-------------|-------------------------|------------------------------------|-------------|-------------|
| 3780.00 | V | - | - | -70.72 | 8.14 | 44.42 | -50.84 | -13.00 | -37.84 |
| 5670.00 | V | - | - | -71.45 | 10.67 | 46.22 | -49.04 | -13.00 | -36.04 |
| 7560.00 | V | - | - | -74.04 | 16.24 | 49.20 | -46.06 | -13.00 | -33.06 |

Table 7-29. Radiated Spurious Data (NR Band n66 – High Channel – Main Ant)

| | | | | |
|--|---|--------------------------------------|-------------|--|
| FCC ID: PY7-95324M |  PART 27 MEASUREMENT REPORT | | SONY | Approved by: Technical Manager |
| Test Report S/N: 1M2108040087-04.PY7 | Test Dates: 8/2 – 9/23/2021 | EUT Type: Portable Handset | | Page 162 of 173 |