

# Appendix for Band 4

Report No.: BCTC2307919155-6E

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Applicant: SHENZHEN YUNJI INTELLIGENT TECHNOLOGY  
CO.,LTD

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Product Name: Smart Phone

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Model/Type  
reference: C35

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Tested Date: 2023-07-18 to 2023-07-26

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Issued Date: 2023-07-27

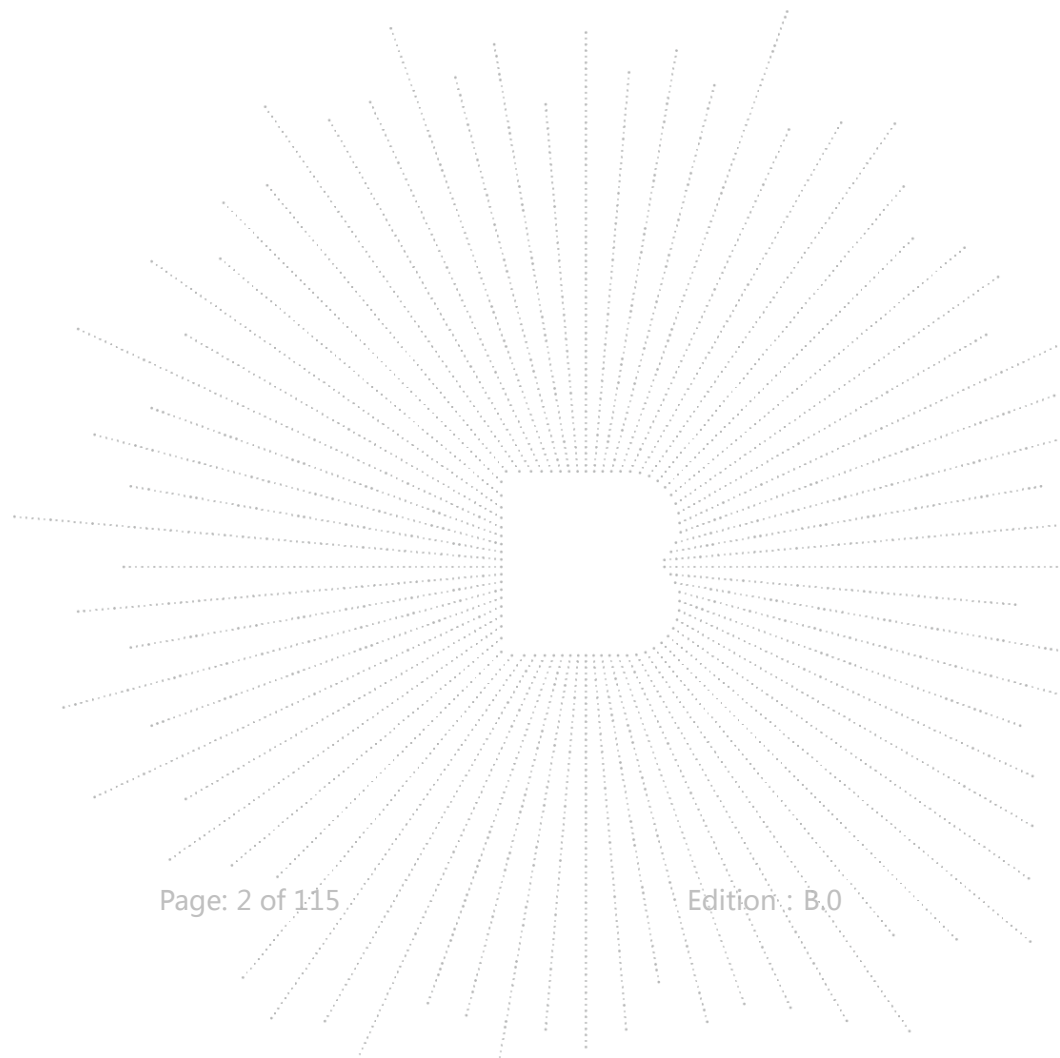
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**Shenzhen BCTC Testing Co., Ltd.**

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**Appendix 1. Conducted output power**

| Band  | Bandwidth (MHz) | UL Channel | RB Size | RB Position | Modulation | Power (dBm) | Gain (dBm) | EIRP (dBm) | Verdict |
|-------|-----------------|------------|---------|-------------|------------|-------------|------------|------------|---------|
| Band4 | 1.4             | 19957      | 1       | #0          | QPSK       | 23.31       | 0.15       | 23.46      | PASS    |
| Band4 | 1.4             | 19957      | 1       | #Mid        | QPSK       | 23.31       | 0.15       | 23.46      | PASS    |
| Band4 | 1.4             | 19957      | 1       | #Max        | QPSK       | 23.28       | 0.15       | 23.43      | PASS    |
| Band4 | 1.4             | 19957      | 3       | #0          | QPSK       | 23.22       | 0.15       | 23.37      | PASS    |
| Band4 | 1.4             | 19957      | 3       | #Mid        | QPSK       | 23.14       | 0.15       | 23.29      | PASS    |
| Band4 | 1.4             | 19957      | 3       | #Max        | QPSK       | 23.22       | 0.15       | 23.37      | PASS    |
| Band4 | 1.4             | 19957      | 6       | #0          | QPSK       | 22.78       | 0.15       | 22.93      | PASS    |
| Band4 | 1.4             | 19957      | 1       | #0          | 16QAM      | 23.82       | 0.15       | 23.97      | PASS    |
| Band4 | 1.4             | 19957      | 1       | #Mid        | 16QAM      | 23.79       | 0.15       | 23.94      | PASS    |
| Band4 | 1.4             | 19957      | 1       | #Max        | 16QAM      | 23.83       | 0.15       | 23.98      | PASS    |
| Band4 | 1.4             | 19957      | 3       | #0          | 16QAM      | 22.94       | 0.15       | 23.09      | PASS    |
| Band4 | 1.4             | 19957      | 3       | #Mid        | 16QAM      | 22.97       | 0.15       | 23.12      | PASS    |
| Band4 | 1.4             | 19957      | 3       | #Max        | 16QAM      | 22.96       | 0.15       | 23.11      | PASS    |
| Band4 | 1.4             | 19957      | 6       | #0          | 16QAM      | 21.84       | 0.15       | 21.99      | PASS    |
| Band4 | 1.4             | 20175      | 1       | #0          | QPSK       | 23.03       | 0.15       | 23.18      | PASS    |
| Band4 | 1.4             | 20175      | 1       | #Mid        | QPSK       | 23.11       | 0.15       | 23.26      | PASS    |
| Band4 | 1.4             | 20175      | 1       | #Max        | QPSK       | 23.03       | 0.15       | 23.18      | PASS    |
| Band4 | 1.4             | 20175      | 3       | #0          | QPSK       | 22.92       | 0.15       | 23.07      | PASS    |
| Band4 | 1.4             | 20175      | 3       | #Mid        | QPSK       | 22.97       | 0.15       | 23.12      | PASS    |
| Band4 | 1.4             | 20175      | 3       | #Max        | QPSK       | 22.92       | 0.15       | 23.07      | PASS    |
| Band4 | 1.4             | 20175      | 6       | #0          | QPSK       | 22.42       | 0.15       | 22.57      | PASS    |
| Band4 | 1.4             | 20175      | 1       | #0          | 16QAM      | 23.29       | 0.15       | 23.44      | PASS    |
| Band4 | 1.4             | 20175      | 1       | #Mid        | 16QAM      | 23.27       | 0.15       | 23.42      | PASS    |
| Band4 | 1.4             | 20175      | 1       | #Max        | 16QAM      | 23.19       | 0.15       | 23.34      | PASS    |
| Band4 | 1.4             | 20175      | 3       | #0          | 16QAM      | 22.64       | 0.15       | 22.79      | PASS    |
| Band4 | 1.4             | 20175      | 3       | #Mid        | 16QAM      | 22.67       | 0.15       | 22.82      | PASS    |
| Band4 | 1.4             | 20175      | 3       | #Max        | 16QAM      | 22.62       | 0.15       | 22.77      | PASS    |
| Band4 | 1.4             | 20175      | 6       | #0          | 16QAM      | 21.55       | 0.15       | 21.70      | PASS    |
| Band4 | 1.4             | 20393      | 1       | #0          | QPSK       | 23.30       | 0.15       | 23.45      | PASS    |
| Band4 | 1.4             | 20393      | 1       | #Mid        | QPSK       | 23.23       | 0.15       | 23.38      | PASS    |
| Band4 | 1.4             | 20393      | 1       | #Max        | QPSK       | 23.22       | 0.15       | 23.37      | PASS    |
| Band4 | 1.4             | 20393      | 3       | #0          | QPSK       | 23.08       | 0.15       | 23.23      | PASS    |
| Band4 | 1.4             | 20393      | 3       | #Mid        | QPSK       | 23.11       | 0.15       | 23.26      | PASS    |
| Band4 | 1.4             | 20393      | 3       | #Max        | QPSK       | 23.15       | 0.15       | 23.30      | PASS    |
| Band4 | 1.4             | 20393      | 6       | #0          | QPSK       | 22.62       | 0.15       | 22.77      | PASS    |
| Band4 | 1.4             | 20393      | 1       | #0          | 16QAM      | 22.33       | 0.15       | 22.48      | PASS    |
| Band4 | 1.4             | 20393      | 1       | #Mid        | 16QAM      | 22.37       | 0.15       | 22.52      | PASS    |

|       |     |       |    |      |       |       |      |       |      |
|-------|-----|-------|----|------|-------|-------|------|-------|------|
| Band4 | 1.4 | 20393 | 1  | #Max | 16QAM | 22.36 | 0.15 | 22.51 | PASS |
| Band4 | 1.4 | 20393 | 3  | #0   | 16QAM | 22.61 | 0.15 | 22.76 | PASS |
| Band4 | 1.4 | 20393 | 3  | #Mid | 16QAM | 22.64 | 0.15 | 22.79 | PASS |
| Band4 | 1.4 | 20393 | 3  | #Max | 16QAM | 22.67 | 0.15 | 22.82 | PASS |
| Band4 | 1.4 | 20393 | 6  | #0   | 16QAM | 21.81 | 0.15 | 21.96 | PASS |
| Band4 | 3   | 19965 | 1  | #0   | QPSK  | 23.10 | 0.15 | 23.25 | PASS |
| Band4 | 3   | 19965 | 1  | #Mid | QPSK  | 23.03 | 0.15 | 23.18 | PASS |
| Band4 | 3   | 19965 | 1  | #Max | QPSK  | 23.09 | 0.15 | 23.24 | PASS |
| Band4 | 3   | 19965 | 8  | #0   | QPSK  | 22.66 | 0.15 | 22.81 | PASS |
| Band4 | 3   | 19965 | 8  | #Mid | QPSK  | 22.69 | 0.15 | 22.84 | PASS |
| Band4 | 3   | 19965 | 8  | #Max | QPSK  | 22.65 | 0.15 | 22.80 | PASS |
| Band4 | 3   | 19965 | 15 | #0   | QPSK  | 22.66 | 0.15 | 22.81 | PASS |
| Band4 | 3   | 19965 | 1  | #0   | 16QAM | 23.91 | 0.15 | 24.06 | PASS |
| Band4 | 3   | 19965 | 1  | #Mid | 16QAM | 23.90 | 0.15 | 24.05 | PASS |
| Band4 | 3   | 19965 | 1  | #Max | 16QAM | 23.91 | 0.15 | 24.06 | PASS |
| Band4 | 3   | 19965 | 8  | #0   | 16QAM | 21.63 | 0.15 | 21.78 | PASS |
| Band4 | 3   | 19965 | 8  | #Mid | 16QAM | 21.68 | 0.15 | 21.83 | PASS |
| Band4 | 3   | 19965 | 8  | #Max | 16QAM | 21.65 | 0.15 | 21.80 | PASS |
| Band4 | 3   | 19965 | 15 | #0   | 16QAM | 21.90 | 0.15 | 22.05 | PASS |
| Band4 | 3   | 20175 | 1  | #0   | QPSK  | 23.00 | 0.15 | 23.15 | PASS |
| Band4 | 3   | 20175 | 1  | #Mid | QPSK  | 23.09 | 0.15 | 23.24 | PASS |
| Band4 | 3   | 20175 | 1  | #Max | QPSK  | 23.06 | 0.15 | 23.21 | PASS |
| Band4 | 3   | 20175 | 8  | #0   | QPSK  | 22.48 | 0.15 | 22.63 | PASS |
| Band4 | 3   | 20175 | 8  | #Mid | QPSK  | 22.49 | 0.15 | 22.64 | PASS |
| Band4 | 3   | 20175 | 8  | #Max | QPSK  | 22.47 | 0.15 | 22.62 | PASS |
| Band4 | 3   | 20175 | 15 | #0   | QPSK  | 22.48 | 0.15 | 22.63 | PASS |
| Band4 | 3   | 20175 | 1  | #0   | 16QAM | 22.65 | 0.15 | 22.80 | PASS |
| Band4 | 3   | 20175 | 1  | #Mid | 16QAM | 22.62 | 0.15 | 22.77 | PASS |
| Band4 | 3   | 20175 | 1  | #Max | 16QAM | 22.61 | 0.15 | 22.76 | PASS |
| Band4 | 3   | 20175 | 8  | #0   | 16QAM | 21.82 | 0.15 | 21.97 | PASS |
| Band4 | 3   | 20175 | 8  | #Mid | 16QAM | 21.86 | 0.15 | 22.01 | PASS |
| Band4 | 3   | 20175 | 8  | #Max | 16QAM | 21.85 | 0.15 | 22.00 | PASS |
| Band4 | 3   | 20175 | 15 | #0   | 16QAM | 21.69 | 0.15 | 21.84 | PASS |
| Band4 | 3   | 20385 | 1  | #0   | QPSK  | 23.31 | 0.15 | 23.46 | PASS |
| Band4 | 3   | 20385 | 1  | #Mid | QPSK  | 23.25 | 0.15 | 23.40 | PASS |
| Band4 | 3   | 20385 | 1  | #Max | QPSK  | 23.29 | 0.15 | 23.44 | PASS |
| Band4 | 3   | 20385 | 8  | #0   | QPSK  | 22.61 | 0.15 | 22.76 | PASS |
| Band4 | 3   | 20385 | 8  | #Mid | QPSK  | 22.61 | 0.15 | 22.76 | PASS |
| Band4 | 3   | 20385 | 8  | #Max | QPSK  | 22.52 | 0.15 | 22.67 | PASS |
| Band4 | 3   | 20385 | 15 | #0   | QPSK  | 22.60 | 0.15 | 22.75 | PASS |
| Band4 | 3   | 20385 | 1  | #0   | 16QAM | 22.12 | 0.15 | 22.27 | PASS |
| Band4 | 3   | 20385 | 1  | #Mid | 16QAM | 22.24 | 0.15 | 22.39 | PASS |

|       |   |       |    |      |       |       |      |       |      |
|-------|---|-------|----|------|-------|-------|------|-------|------|
| Band4 | 3 | 20385 | 1  | #Max | 16QAM | 22.27 | 0.15 | 22.42 | PASS |
| Band4 | 3 | 20385 | 8  | #0   | 16QAM | 21.86 | 0.15 | 22.01 | PASS |
| Band4 | 3 | 20385 | 8  | #Mid | 16QAM | 21.86 | 0.15 | 22.01 | PASS |
| Band4 | 3 | 20385 | 8  | #Max | 16QAM | 21.89 | 0.15 | 22.04 | PASS |
| Band4 | 3 | 20385 | 15 | #0   | 16QAM | 21.70 | 0.15 | 21.85 | PASS |
| Band4 | 5 | 19975 | 1  | #0   | QPSK  | 23.05 | 0.15 | 23.20 | PASS |
| Band4 | 5 | 19975 | 1  | #Mid | QPSK  | 23.06 | 0.15 | 23.21 | PASS |
| Band4 | 5 | 19975 | 1  | #Max | QPSK  | 23.04 | 0.15 | 23.19 | PASS |
| Band4 | 5 | 19975 | 12 | #0   | QPSK  | 22.66 | 0.15 | 22.81 | PASS |
| Band4 | 5 | 19975 | 12 | #Mid | QPSK  | 22.70 | 0.15 | 22.85 | PASS |
| Band4 | 5 | 19975 | 12 | #Max | QPSK  | 22.55 | 0.15 | 22.70 | PASS |
| Band4 | 5 | 19975 | 25 | #0   | QPSK  | 22.57 | 0.15 | 22.72 | PASS |
| Band4 | 5 | 19975 | 1  | #0   | 16QAM | 22.97 | 0.15 | 23.12 | PASS |
| Band4 | 5 | 19975 | 1  | #Mid | 16QAM | 22.96 | 0.15 | 23.11 | PASS |
| Band4 | 5 | 19975 | 1  | #Max | 16QAM | 22.90 | 0.15 | 23.05 | PASS |
| Band4 | 5 | 19975 | 12 | #0   | 16QAM | 21.51 | 0.15 | 21.66 | PASS |
| Band4 | 5 | 19975 | 12 | #Mid | 16QAM | 21.65 | 0.15 | 21.80 | PASS |
| Band4 | 5 | 19975 | 12 | #Max | 16QAM | 21.75 | 0.15 | 21.90 | PASS |
| Band4 | 5 | 19975 | 25 | #0   | 16QAM | 21.85 | 0.15 | 22.00 | PASS |
| Band4 | 5 | 20175 | 1  | #0   | QPSK  | 23.13 | 0.15 | 23.28 | PASS |
| Band4 | 5 | 20175 | 1  | #Mid | QPSK  | 23.11 | 0.15 | 23.26 | PASS |
| Band4 | 5 | 20175 | 1  | #Max | QPSK  | 23.12 | 0.15 | 23.27 | PASS |
| Band4 | 5 | 20175 | 12 | #0   | QPSK  | 22.57 | 0.15 | 22.72 | PASS |
| Band4 | 5 | 20175 | 12 | #Mid | QPSK  | 22.50 | 0.15 | 22.65 | PASS |
| Band4 | 5 | 20175 | 12 | #Max | QPSK  | 22.39 | 0.15 | 22.54 | PASS |
| Band4 | 5 | 20175 | 25 | #0   | QPSK  | 22.40 | 0.15 | 22.55 | PASS |
| Band4 | 5 | 20175 | 1  | #0   | 16QAM | 22.68 | 0.15 | 22.83 | PASS |
| Band4 | 5 | 20175 | 1  | #Mid | 16QAM | 22.62 | 0.15 | 22.77 | PASS |
| Band4 | 5 | 20175 | 1  | #Max | 16QAM | 22.67 | 0.15 | 22.82 | PASS |
| Band4 | 5 | 20175 | 12 | #0   | 16QAM | 21.41 | 0.15 | 21.56 | PASS |
| Band4 | 5 | 20175 | 12 | #Mid | 16QAM | 21.43 | 0.15 | 21.58 | PASS |
| Band4 | 5 | 20175 | 12 | #Max | 16QAM | 21.51 | 0.15 | 21.66 | PASS |
| Band4 | 5 | 20175 | 25 | #0   | 16QAM | 21.65 | 0.15 | 21.80 | PASS |
| Band4 | 5 | 20375 | 1  | #0   | QPSK  | 22.82 | 0.15 | 22.97 | PASS |
| Band4 | 5 | 20375 | 1  | #Mid | QPSK  | 22.77 | 0.15 | 22.92 | PASS |
| Band4 | 5 | 20375 | 1  | #Max | QPSK  | 22.83 | 0.15 | 22.98 | PASS |
| Band4 | 5 | 20375 | 12 | #0   | QPSK  | 22.51 | 0.15 | 22.66 | PASS |
| Band4 | 5 | 20375 | 12 | #Mid | QPSK  | 22.56 | 0.15 | 22.71 | PASS |
| Band4 | 5 | 20375 | 12 | #Max | QPSK  | 22.62 | 0.15 | 22.77 | PASS |
| Band4 | 5 | 20375 | 25 | #0   | QPSK  | 22.71 | 0.15 | 22.86 | PASS |
| Band4 | 5 | 20375 | 1  | #0   | 16QAM | 23.09 | 0.15 | 23.24 | PASS |
| Band4 | 5 | 20375 | 1  | #Mid | 16QAM | 23.07 | 0.15 | 23.22 | PASS |

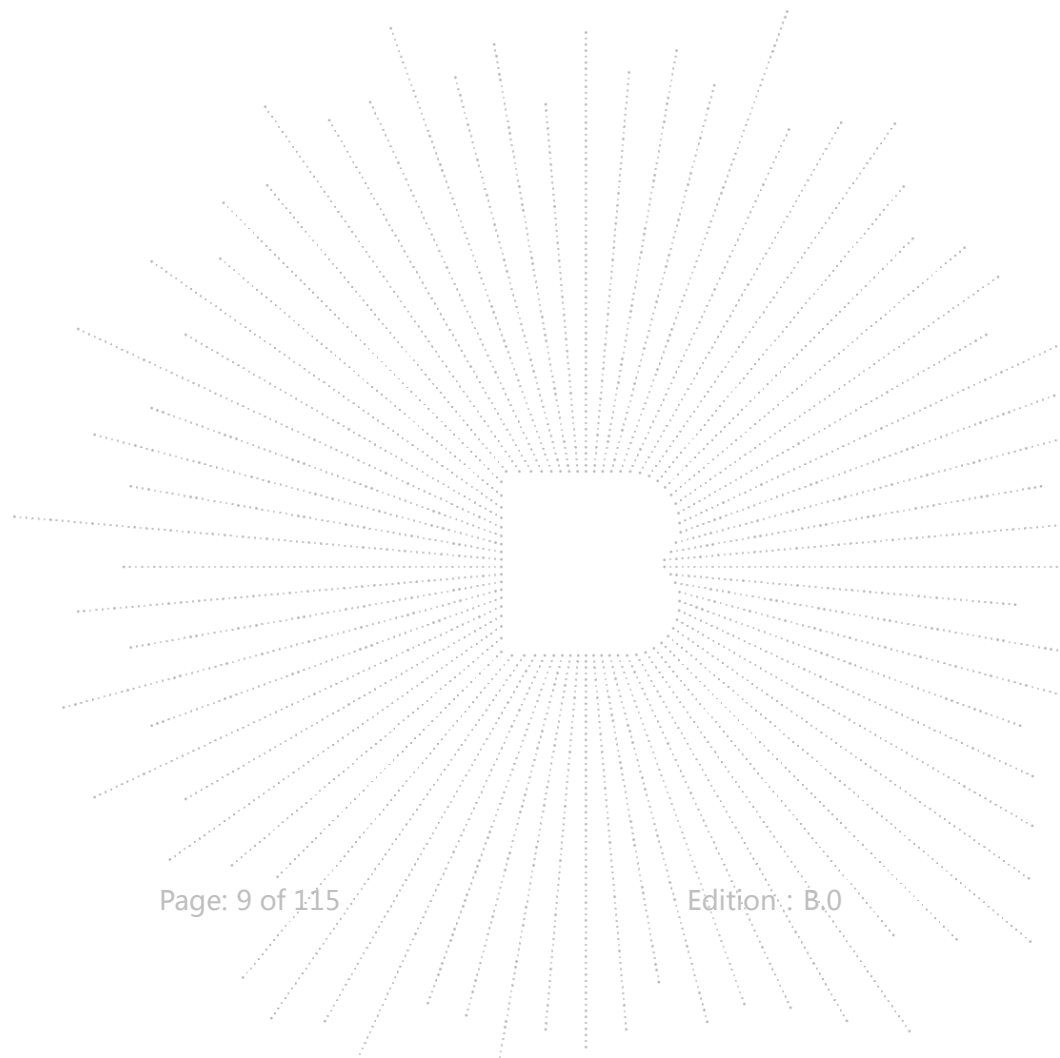
|       |    |       |    |      |       |       |      |       |      |
|-------|----|-------|----|------|-------|-------|------|-------|------|
| Band4 | 5  | 20375 | 1  | #Max | 16QAM | 23.11 | 0.15 | 23.26 | PASS |
| Band4 | 5  | 20375 | 12 | #0   | 16QAM | 21.71 | 0.15 | 21.86 | PASS |
| Band4 | 5  | 20375 | 12 | #Mid | 16QAM | 21.69 | 0.15 | 21.84 | PASS |
| Band4 | 5  | 20375 | 12 | #Max | 16QAM | 21.69 | 0.15 | 21.84 | PASS |
| Band4 | 5  | 20375 | 25 | #0   | 16QAM | 21.95 | 0.15 | 22.10 | PASS |
| Band4 | 10 | 20000 | 1  | #0   | QPSK  | 23.08 | 0.15 | 23.23 | PASS |
| Band4 | 10 | 20000 | 1  | #Mid | QPSK  | 22.99 | 0.15 | 23.14 | PASS |
| Band4 | 10 | 20000 | 1  | #Max | QPSK  | 22.98 | 0.15 | 23.13 | PASS |
| Band4 | 10 | 20000 | 25 | #0   | QPSK  | 22.64 | 0.15 | 22.79 | PASS |
| Band4 | 10 | 20000 | 25 | #Mid | QPSK  | 22.62 | 0.15 | 22.77 | PASS |
| Band4 | 10 | 20000 | 25 | #Max | QPSK  | 22.69 | 0.15 | 22.84 | PASS |
| Band4 | 10 | 20000 | 50 | #0   | QPSK  | 22.53 | 0.15 | 22.68 | PASS |
| Band4 | 10 | 20000 | 1  | #0   | 16QAM | 23.91 | 0.15 | 24.06 | PASS |
| Band4 | 10 | 20000 | 1  | #Mid | 16QAM | 23.90 | 0.15 | 24.05 | PASS |
| Band4 | 10 | 20000 | 1  | #Max | 16QAM | 23.91 | 0.15 | 24.06 | PASS |
| Band4 | 10 | 20000 | 25 | #0   | 16QAM | 21.73 | 0.15 | 21.88 | PASS |
| Band4 | 10 | 20000 | 25 | #Mid | 16QAM | 21.71 | 0.15 | 21.86 | PASS |
| Band4 | 10 | 20000 | 25 | #Max | 16QAM | 21.70 | 0.15 | 21.85 | PASS |
| Band4 | 10 | 20000 | 50 | #0   | 16QAM | 21.77 | 0.15 | 21.92 | PASS |
| Band4 | 10 | 20175 | 1  | #0   | QPSK  | 22.94 | 0.15 | 23.09 | PASS |
| Band4 | 10 | 20175 | 1  | #Mid | QPSK  | 22.90 | 0.15 | 23.05 | PASS |
| Band4 | 10 | 20175 | 1  | #Max | QPSK  | 22.87 | 0.15 | 23.02 | PASS |
| Band4 | 10 | 20175 | 25 | #0   | QPSK  | 22.48 | 0.15 | 22.63 | PASS |
| Band4 | 10 | 20175 | 25 | #Mid | QPSK  | 22.42 | 0.15 | 22.57 | PASS |
| Band4 | 10 | 20175 | 25 | #Max | QPSK  | 22.49 | 0.15 | 22.64 | PASS |
| Band4 | 10 | 20175 | 50 | #0   | QPSK  | 22.55 | 0.15 | 22.70 | PASS |
| Band4 | 10 | 20175 | 1  | #0   | 16QAM | 23.27 | 0.15 | 23.42 | PASS |
| Band4 | 10 | 20175 | 1  | #Mid | 16QAM | 23.29 | 0.15 | 23.44 | PASS |
| Band4 | 10 | 20175 | 1  | #Max | 16QAM | 22.63 | 0.15 | 22.78 | PASS |
| Band4 | 10 | 20175 | 25 | #0   | 16QAM | 21.59 | 0.15 | 21.74 | PASS |
| Band4 | 10 | 20175 | 25 | #Mid | 16QAM | 21.65 | 0.15 | 21.80 | PASS |
| Band4 | 10 | 20175 | 25 | #Max | 16QAM | 21.50 | 0.15 | 21.65 | PASS |
| Band4 | 10 | 20175 | 50 | #0   | 16QAM | 21.70 | 0.15 | 21.85 | PASS |
| Band4 | 10 | 20350 | 1  | #0   | QPSK  | 23.11 | 0.15 | 23.26 | PASS |
| Band4 | 10 | 20350 | 1  | #Mid | QPSK  | 23.21 | 0.15 | 23.36 | PASS |
| Band4 | 10 | 20350 | 1  | #Max | QPSK  | 23.20 | 0.15 | 23.35 | PASS |
| Band4 | 10 | 20350 | 25 | #0   | QPSK  | 22.53 | 0.15 | 22.68 | PASS |
| Band4 | 10 | 20350 | 25 | #Mid | QPSK  | 22.50 | 0.15 | 22.65 | PASS |
| Band4 | 10 | 20350 | 25 | #Max | QPSK  | 22.55 | 0.15 | 22.70 | PASS |
| Band4 | 10 | 20350 | 50 | #0   | QPSK  | 22.54 | 0.15 | 22.69 | PASS |
| Band4 | 10 | 20350 | 1  | #0   | 16QAM | 23.37 | 0.15 | 23.52 | PASS |
| Band4 | 10 | 20350 | 1  | #Mid | 16QAM | 23.42 | 0.15 | 23.57 | PASS |

|       |    |       |    |      |       |       |      |       |      |
|-------|----|-------|----|------|-------|-------|------|-------|------|
| Band4 | 10 | 20350 | 1  | #Max | 16QAM | 23.53 | 0.15 | 23.68 | PASS |
| Band4 | 10 | 20350 | 25 | #0   | 16QAM | 21.69 | 0.15 | 21.84 | PASS |
| Band4 | 10 | 20350 | 25 | #Mid | 16QAM | 21.79 | 0.15 | 21.94 | PASS |
| Band4 | 10 | 20350 | 25 | #Max | 16QAM | 21.84 | 0.15 | 21.99 | PASS |
| Band4 | 10 | 20350 | 50 | #0   | 16QAM | 21.70 | 0.15 | 21.85 | PASS |
| Band4 | 15 | 20025 | 1  | #0   | QPSK  | 23.10 | 0.15 | 23.25 | PASS |
| Band4 | 15 | 20025 | 1  | #Mid | QPSK  | 23.11 | 0.15 | 23.26 | PASS |
| Band4 | 15 | 20025 | 1  | #Max | QPSK  | 23.01 | 0.15 | 23.16 | PASS |
| Band4 | 15 | 20025 | 36 | #0   | QPSK  | 22.60 | 0.15 | 22.75 | PASS |
| Band4 | 15 | 20025 | 36 | #Mid | QPSK  | 22.70 | 0.15 | 22.85 | PASS |
| Band4 | 15 | 20025 | 36 | #Max | QPSK  | 22.60 | 0.15 | 22.75 | PASS |
| Band4 | 15 | 20025 | 75 | #0   | QPSK  | 22.56 | 0.15 | 22.71 | PASS |
| Band4 | 15 | 20025 | 1  | #0   | 16QAM | 23.91 | 0.15 | 24.06 | PASS |
| Band4 | 15 | 20025 | 1  | #Mid | 16QAM | 23.91 | 0.15 | 24.06 | PASS |
| Band4 | 15 | 20025 | 1  | #Max | 16QAM | 23.92 | 0.15 | 24.07 | PASS |
| Band4 | 15 | 20025 | 36 | #0   | 16QAM | 21.70 | 0.15 | 21.85 | PASS |
| Band4 | 15 | 20025 | 36 | #Mid | 16QAM | 21.72 | 0.15 | 21.87 | PASS |
| Band4 | 15 | 20025 | 36 | #Max | 16QAM | 21.74 | 0.15 | 21.89 | PASS |
| Band4 | 15 | 20025 | 75 | #0   | 16QAM | 21.81 | 0.15 | 21.96 | PASS |
| Band4 | 15 | 20175 | 1  | #0   | QPSK  | 22.93 | 0.15 | 23.08 | PASS |
| Band4 | 15 | 20175 | 1  | #Mid | QPSK  | 22.83 | 0.15 | 22.98 | PASS |
| Band4 | 15 | 20175 | 1  | #Max | QPSK  | 22.93 | 0.15 | 23.08 | PASS |
| Band4 | 15 | 20175 | 36 | #0   | QPSK  | 22.43 | 0.15 | 22.58 | PASS |
| Band4 | 15 | 20175 | 36 | #Mid | QPSK  | 22.56 | 0.15 | 22.71 | PASS |
| Band4 | 15 | 20175 | 36 | #Max | QPSK  | 22.42 | 0.15 | 22.57 | PASS |
| Band4 | 15 | 20175 | 75 | #0   | QPSK  | 22.57 | 0.15 | 22.72 | PASS |
| Band4 | 15 | 20175 | 1  | #0   | 16QAM | 23.36 | 0.15 | 23.51 | PASS |
| Band4 | 15 | 20175 | 1  | #Mid | 16QAM | 23.23 | 0.15 | 23.38 | PASS |
| Band4 | 15 | 20175 | 1  | #Max | 16QAM | 23.24 | 0.15 | 23.39 | PASS |
| Band4 | 15 | 20175 | 36 | #0   | 16QAM | 21.69 | 0.15 | 21.84 | PASS |
| Band4 | 15 | 20175 | 36 | #Mid | 16QAM | 21.75 | 0.15 | 21.90 | PASS |
| Band4 | 15 | 20175 | 36 | #Max | 16QAM | 21.76 | 0.15 | 21.91 | PASS |
| Band4 | 15 | 20175 | 75 | #0   | 16QAM | 21.61 | 0.15 | 21.76 | PASS |
| Band4 | 15 | 20325 | 1  | #0   | QPSK  | 22.99 | 0.15 | 23.14 | PASS |
| Band4 | 15 | 20325 | 1  | #Mid | QPSK  | 23.03 | 0.15 | 23.18 | PASS |
| Band4 | 15 | 20325 | 1  | #Max | QPSK  | 23.04 | 0.15 | 23.19 | PASS |
| Band4 | 15 | 20325 | 36 | #0   | QPSK  | 22.56 | 0.15 | 22.71 | PASS |
| Band4 | 15 | 20325 | 36 | #Mid | QPSK  | 22.55 | 0.15 | 22.70 | PASS |
| Band4 | 15 | 20325 | 36 | #Max | QPSK  | 22.47 | 0.15 | 22.62 | PASS |
| Band4 | 15 | 20325 | 75 | #0   | QPSK  | 22.41 | 0.15 | 22.56 | PASS |
| Band4 | 15 | 20325 | 1  | #0   | 16QAM | 23.55 | 0.15 | 23.70 | PASS |
| Band4 | 15 | 20325 | 1  | #Mid | 16QAM | 23.64 | 0.15 | 23.79 | PASS |

|       |    |       |     |      |       |       |      |       |      |
|-------|----|-------|-----|------|-------|-------|------|-------|------|
| Band4 | 15 | 20325 | 1   | #Max | 16QAM | 23.69 | 0.15 | 23.84 | PASS |
| Band4 | 15 | 20325 | 36  | #0   | 16QAM | 21.57 | 0.15 | 21.72 | PASS |
| Band4 | 15 | 20325 | 36  | #Mid | 16QAM | 21.56 | 0.15 | 21.71 | PASS |
| Band4 | 15 | 20325 | 36  | #Max | 16QAM | 21.62 | 0.15 | 21.77 | PASS |
| Band4 | 15 | 20325 | 75  | #0   | 16QAM | 21.62 | 0.15 | 21.77 | PASS |
| Band4 | 20 | 20050 | 1   | #0   | QPSK  | 23.30 | 0.15 | 23.45 | PASS |
| Band4 | 20 | 20050 | 1   | #Mid | QPSK  | 23.17 | 0.15 | 23.32 | PASS |
| Band4 | 20 | 20050 | 1   | #Max | QPSK  | 23.14 | 0.15 | 23.29 | PASS |
| Band4 | 20 | 20050 | 50  | #0   | QPSK  | 22.70 | 0.15 | 22.85 | PASS |
| Band4 | 20 | 20050 | 50  | #Mid | QPSK  | 22.46 | 0.15 | 22.61 | PASS |
| Band4 | 20 | 20050 | 50  | #Max | QPSK  | 22.59 | 0.15 | 22.74 | PASS |
| Band4 | 20 | 20050 | 100 | #0   | QPSK  | 22.44 | 0.15 | 22.59 | PASS |
| Band4 | 20 | 20050 | 1   | #0   | 16QAM | 22.84 | 0.15 | 22.99 | PASS |
| Band4 | 20 | 20050 | 1   | #Mid | 16QAM | 22.67 | 0.15 | 22.82 | PASS |
| Band4 | 20 | 20050 | 1   | #Max | 16QAM | 22.69 | 0.15 | 22.84 | PASS |
| Band4 | 20 | 20050 | 50  | #0   | 16QAM | 21.86 | 0.15 | 22.01 | PASS |
| Band4 | 20 | 20050 | 50  | #Mid | 16QAM | 21.85 | 0.15 | 22.00 | PASS |
| Band4 | 20 | 20050 | 50  | #Max | 16QAM | 21.69 | 0.15 | 21.84 | PASS |
| Band4 | 20 | 20050 | 100 | #0   | 16QAM | 21.71 | 0.15 | 21.86 | PASS |
| Band4 | 20 | 20175 | 1   | #0   | QPSK  | 23.30 | 0.15 | 23.45 | PASS |
| Band4 | 20 | 20175 | 1   | #Mid | QPSK  | 23.20 | 0.15 | 23.35 | PASS |
| Band4 | 20 | 20175 | 1   | #Max | QPSK  | 23.25 | 0.15 | 23.40 | PASS |
| Band4 | 20 | 20175 | 50  | #0   | QPSK  | 22.44 | 0.15 | 22.59 | PASS |
| Band4 | 20 | 20175 | 50  | #Mid | QPSK  | 22.51 | 0.15 | 22.66 | PASS |
| Band4 | 20 | 20175 | 50  | #Max | QPSK  | 22.42 | 0.15 | 22.57 | PASS |
| Band4 | 20 | 20175 | 100 | #0   | QPSK  | 22.57 | 0.15 | 22.72 | PASS |
| Band4 | 20 | 20175 | 1   | #0   | 16QAM | 22.78 | 0.15 | 22.93 | PASS |
| Band4 | 20 | 20175 | 1   | #Mid | 16QAM | 22.65 | 0.15 | 22.80 | PASS |
| Band4 | 20 | 20175 | 1   | #Max | 16QAM | 22.85 | 0.15 | 23.00 | PASS |
| Band4 | 20 | 20175 | 50  | #0   | 16QAM | 21.64 | 0.15 | 21.79 | PASS |
| Band4 | 20 | 20175 | 50  | #Mid | 16QAM | 21.65 | 0.15 | 21.80 | PASS |
| Band4 | 20 | 20175 | 50  | #Max | 16QAM | 21.60 | 0.15 | 21.75 | PASS |
| Band4 | 20 | 20175 | 100 | #0   | 16QAM | 21.58 | 0.15 | 21.73 | PASS |
| Band4 | 20 | 20300 | 1   | #0   | QPSK  | 22.99 | 0.15 | 23.14 | PASS |
| Band4 | 20 | 20300 | 1   | #Mid | QPSK  | 23.03 | 0.15 | 23.18 | PASS |
| Band4 | 20 | 20300 | 1   | #Max | QPSK  | 23.18 | 0.15 | 23.33 | PASS |
| Band4 | 20 | 20300 | 50  | #0   | QPSK  | 22.37 | 0.15 | 22.52 | PASS |
| Band4 | 20 | 20300 | 50  | #Mid | QPSK  | 22.59 | 0.15 | 22.74 | PASS |
| Band4 | 20 | 20300 | 50  | #Max | QPSK  | 22.63 | 0.15 | 22.78 | PASS |
| Band4 | 20 | 20300 | 100 | #0   | QPSK  | 22.46 | 0.15 | 22.61 | PASS |
| Band4 | 20 | 20300 | 1   | #0   | 16QAM | 23.02 | 0.15 | 23.17 | PASS |
| Band4 | 20 | 20300 | 1   | #Mid | 16QAM | 23.12 | 0.15 | 23.27 | PASS |



|       |    |       |     |      |       |       |      |       |      |
|-------|----|-------|-----|------|-------|-------|------|-------|------|
| Band4 | 20 | 20300 | 1   | #Max | 16QAM | 23.18 | 0.15 | 23.33 | PASS |
| Band4 | 20 | 20300 | 50  | #0   | 16QAM | 21.72 | 0.15 | 21.87 | PASS |
| Band4 | 20 | 20300 | 50  | #Mid | 16QAM | 21.80 | 0.15 | 21.95 | PASS |
| Band4 | 20 | 20300 | 50  | #Max | 16QAM | 21.86 | 0.15 | 22.01 | PASS |
| Band4 | 20 | 20300 | 100 | #0   | 16QAM | 21.73 | 0.15 | 21.88 | PASS |



**Appendix 2. Frequency stability**

| Band   | Bandwidth (MHz) | UL Channel | RB Size | RB Position | Modulation | Voltage (Vdc) | Temperature (C) | Result (Hz) | Result (ppm) | Low Limit (ppm) | high Limit (ppm) | Verdict |
|--------|-----------------|------------|---------|-------------|------------|---------------|-----------------|-------------|--------------|-----------------|------------------|---------|
| Band 4 | 1.4             | 19957      | 6       | #0          | QPSK       | LV            | NT              | 26.49       | 0.015        | -2.5            | 2.5              | PASS    |
| Band 4 | 1.4             | 19957      | 6       | #0          | QPSK       | NV            | NT              | 28.40       | 0.017        | -2.5            | 2.5              | PASS    |
| Band 4 | 1.4             | 19957      | 6       | #0          | QPSK       | HV            | NT              | 25.95       | 0.015        | -2.5            | 2.5              | PASS    |
| Band 4 | 1.4             | 19957      | 6       | #0          | 16QAM      | LV            | NT              | 26.66       | 0.016        | -2.5            | 2.5              | PASS    |
| Band 4 | 1.4             | 19957      | 6       | #0          | 16QAM      | NV            | NT              | 26.41       | 0.015        | -2.5            | 2.5              | PASS    |
| Band 4 | 1.4             | 19957      | 6       | #0          | 16QAM      | HV            | NT              | 25.29       | 0.015        | -2.5            | 2.5              | PASS    |
| Band 4 | 1.4             | 20175      | 6       | #0          | QPSK       | LV            | NT              | 0.49        | 0.000        | -2.5            | 2.5              | PASS    |
| Band 4 | 1.4             | 20175      | 6       | #0          | QPSK       | NV            | NT              | 4.53        | 0.003        | -2.5            | 2.5              | PASS    |
| Band 4 | 1.4             | 20175      | 6       | #0          | QPSK       | HV            | NT              | 8.15        | 0.005        | -2.5            | 2.5              | PASS    |
| Band 4 | 1.4             | 20175      | 6       | #0          | 16QAM      | LV            | NT              | 7.58        | 0.004        | -2.5            | 2.5              | PASS    |
| Band 4 | 1.4             | 20175      | 6       | #0          | 16QAM      | NV            | NT              | 13.02       | 0.008        | -2.5            | 2.5              | PASS    |
| Band 4 | 1.4             | 20175      | 6       | #0          | 16QAM      | HV            | NT              | 19.87       | 0.011        | -2.5            | 2.5              | PASS    |
| Band 4 | 1.4             | 20393      | 6       | #0          | QPSK       | LV            | NT              | -4.31       | -0.002       | -2.5            | 2.5              | PASS    |
| Band 4 | 1.4             | 20393      | 6       | #0          | QPSK       | NV            | NT              | 0.41        | 0.000        | -2.5            | 2.5              | PASS    |
| Band 4 | 1.4             | 20393      | 6       | #0          | QPSK       | HV            | NT              | 0.33        | 0.000        | -2.5            | 2.5              | PASS    |
| Band 4 | 1.4             | 20393      | 6       | #0          | 16QAM      | LV            | NT              | 1.07        | 0.001        | -2.5            | 2.5              | PASS    |
| Band 4 | 1.4             | 20393      | 6       | #0          | 16QAM      | NV            | NT              | 5.34        | 0.003        | -2.5            | 2.5              | PASS    |
| Band 4 | 1.4             | 20393      | 6       | #0          | 16QAM      | HV            | NT              | 4.53        | 0.003        | -2.5            | 2.5              | PASS    |

|        |   |       |    |    |       |    |    |       |        |      |     |      |
|--------|---|-------|----|----|-------|----|----|-------|--------|------|-----|------|
| 4      |   |       |    |    |       |    |    |       |        |      |     |      |
| Band 4 | 3 | 19965 | 15 | #0 | QPSK  | LV | NT | 9.33  | 0.005  | -2.5 | 2.5 | PASS |
| Band 4 | 3 | 19965 | 15 | #0 | QPSK  | NV | NT | 8.94  | 0.005  | -2.5 | 2.5 | PASS |
| Band 4 | 3 | 19965 | 15 | #0 | QPSK  | HV | NT | 6.77  | 0.004  | -2.5 | 2.5 | PASS |
| Band 4 | 3 | 19965 | 15 | #0 | 16QAM | LV | NT | 6.51  | 0.004  | -2.5 | 2.5 | PASS |
| Band 4 | 3 | 19965 | 15 | #0 | 16QAM | NV | NT | 4.06  | 0.002  | -2.5 | 2.5 | PASS |
| Band 4 | 3 | 19965 | 15 | #0 | 16QAM | HV | NT | 2.10  | 0.001  | -2.5 | 2.5 | PASS |
| Band 4 | 3 | 20175 | 15 | #0 | QPSK  | LV | NT | 11.46 | 0.007  | -2.5 | 2.5 | PASS |
| Band 4 | 3 | 20175 | 15 | #0 | QPSK  | NV | NT | 12.49 | 0.007  | -2.5 | 2.5 | PASS |
| Band 4 | 3 | 20175 | 15 | #0 | QPSK  | HV | NT | 14.48 | 0.008  | -2.5 | 2.5 | PASS |
| Band 4 | 3 | 20175 | 15 | #0 | 16QAM | LV | NT | 17.44 | 0.010  | -2.5 | 2.5 | PASS |
| Band 4 | 3 | 20175 | 15 | #0 | 16QAM | NV | NT | 18.63 | 0.011  | -2.5 | 2.5 | PASS |
| Band 4 | 3 | 20175 | 15 | #0 | 16QAM | HV | NT | 20.34 | 0.012  | -2.5 | 2.5 | PASS |
| Band 4 | 3 | 20385 | 15 | #0 | QPSK  | LV | NT | -4.73 | -0.003 | -2.5 | 2.5 | PASS |
| Band 4 | 3 | 20385 | 15 | #0 | QPSK  | NV | NT | -3.22 | -0.002 | -2.5 | 2.5 | PASS |
| Band 4 | 3 | 20385 | 15 | #0 | QPSK  | HV | NT | -6.15 | -0.004 | -2.5 | 2.5 | PASS |
| Band 4 | 3 | 20385 | 15 | #0 | 16QAM | LV | NT | -6.72 | -0.004 | -2.5 | 2.5 | PASS |
| Band 4 | 3 | 20385 | 15 | #0 | 16QAM | NV | NT | -8.30 | -0.005 | -2.5 | 2.5 | PASS |
| Band 4 | 3 | 20385 | 15 | #0 | 16QAM | HV | NT | -8.96 | -0.005 | -2.5 | 2.5 | PASS |
| Band 4 | 5 | 19975 | 25 | #0 | QPSK  | LV | NT | -2.99 | -0.002 | -2.5 | 2.5 | PASS |
| Band 4 | 5 | 19975 | 25 | #0 | QPSK  | NV | NT | -7.75 | -0.005 | -2.5 | 2.5 | PASS |
| Band 4 | 5 | 19975 | 25 | #0 | QPSK  | HV | NT | -14.5 | -0.009 | -2.5 | 2.5 | PASS |

|           |    |       |    |    |       |    |    |            |            |      |     |      |
|-----------|----|-------|----|----|-------|----|----|------------|------------|------|-----|------|
| Band<br>4 | 5  | 19975 | 25 | #0 | 16QAM | LV | NT | -17.0<br>7 | -0.01<br>0 | -2.5 | 2.5 | PASS |
| Band<br>4 | 5  | 19975 | 25 | #0 | 16QAM | NV | NT | -18.9<br>0 | -0.011     | -2.5 | 2.5 | PASS |
| Band<br>4 | 5  | 19975 | 25 | #0 | 16QAM | HV | NT | -19.2<br>3 | -0.011     | -2.5 | 2.5 | PASS |
| Band<br>4 | 5  | 20175 | 25 | #0 | QPSK  | LV | NT | -14.6<br>2 | -0.00<br>8 | -2.5 | 2.5 | PASS |
| Band<br>4 | 5  | 20175 | 25 | #0 | QPSK  | NV | NT | -12.0<br>3 | -0.00<br>7 | -2.5 | 2.5 | PASS |
| Band<br>4 | 5  | 20175 | 25 | #0 | QPSK  | HV | NT | -9.76      | -0.00<br>6 | -2.5 | 2.5 | PASS |
| Band<br>4 | 5  | 20175 | 25 | #0 | 16QAM | LV | NT | -7.70      | -0.00<br>4 | -2.5 | 2.5 | PASS |
| Band<br>4 | 5  | 20175 | 25 | #0 | 16QAM | NV | NT | -6.67      | -0.00<br>4 | -2.5 | 2.5 | PASS |
| Band<br>4 | 5  | 20175 | 25 | #0 | 16QAM | HV | NT | -7.47      | -0.00<br>4 | -2.5 | 2.5 | PASS |
| Band<br>4 | 5  | 20375 | 25 | #0 | QPSK  | LV | NT | 4.41       | 0.003      | -2.5 | 2.5 | PASS |
| Band<br>4 | 5  | 20375 | 25 | #0 | QPSK  | NV | NT | 2.32       | 0.001      | -2.5 | 2.5 | PASS |
| Band<br>4 | 5  | 20375 | 25 | #0 | QPSK  | HV | NT | -1.49      | -0.00<br>1 | -2.5 | 2.5 | PASS |
| Band<br>4 | 5  | 20375 | 25 | #0 | 16QAM | LV | NT | -3.35      | -0.00<br>2 | -2.5 | 2.5 | PASS |
| Band<br>4 | 5  | 20375 | 25 | #0 | 16QAM | NV | NT | -5.66      | -0.00<br>3 | -2.5 | 2.5 | PASS |
| Band<br>4 | 5  | 20375 | 25 | #0 | 16QAM | HV | NT | -8.15      | -0.00<br>5 | -2.5 | 2.5 | PASS |
| Band<br>4 | 10 | 20000 | 50 | #0 | QPSK  | LV | NT | 3.25       | 0.002      | -2.5 | 2.5 | PASS |
| Band<br>4 | 10 | 20000 | 50 | #0 | QPSK  | NV | NT | 0.54       | 0.000      | -2.5 | 2.5 | PASS |
| Band<br>4 | 10 | 20000 | 50 | #0 | QPSK  | HV | NT | -8.10      | -0.00<br>5 | -2.5 | 2.5 | PASS |
| Band<br>4 | 10 | 20000 | 50 | #0 | 16QAM | LV | NT | -14.6<br>9 | -0.00<br>9 | -2.5 | 2.5 | PASS |
| Band<br>4 | 10 | 20000 | 50 | #0 | 16QAM | NV | NT | -17.9<br>2 | -0.01<br>0 | -2.5 | 2.5 | PASS |
| Band<br>4 | 10 | 20000 | 50 | #0 | 16QAM | HV | NT | -17.1<br>8 | -0.01<br>0 | -2.5 | 2.5 | PASS |
| Band<br>4 | 10 | 20175 | 50 | #0 | QPSK  | LV | NT | 1.14       | 0.001      | -2.5 | 2.5 | PASS |

|        |    |       |    |    |       |    |    |        |        |      |     |      |
|--------|----|-------|----|----|-------|----|----|--------|--------|------|-----|------|
| 4      |    |       |    |    |       |    |    |        |        |      |     |      |
| Band 4 | 10 | 20175 | 50 | #0 | QPSK  | NV | NT | 0.53   | 0.000  | -2.5 | 2.5 | PASS |
| Band 4 | 10 | 20175 | 50 | #0 | QPSK  | HV | NT | 2.03   | 0.001  | -2.5 | 2.5 | PASS |
| Band 4 | 10 | 20175 | 50 | #0 | 16QAM | LV | NT | 1.66   | 0.001  | -2.5 | 2.5 | PASS |
| Band 4 | 10 | 20175 | 50 | #0 | 16QAM | NV | NT | 0.34   | 0.000  | -2.5 | 2.5 | PASS |
| Band 4 | 10 | 20175 | 50 | #0 | 16QAM | HV | NT | -0.84  | 0.000  | -2.5 | 2.5 | PASS |
| Band 4 | 10 | 20350 | 50 | #0 | QPSK  | LV | NT | 14.23  | 0.008  | -2.5 | 2.5 | PASS |
| Band 4 | 10 | 20350 | 50 | #0 | QPSK  | NV | NT | 13.62  | 0.008  | -2.5 | 2.5 | PASS |
| Band 4 | 10 | 20350 | 50 | #0 | QPSK  | HV | NT | 14.45  | 0.008  | -2.5 | 2.5 | PASS |
| Band 4 | 10 | 20350 | 50 | #0 | 16QAM | LV | NT | 16.48  | 0.009  | -2.5 | 2.5 | PASS |
| Band 4 | 10 | 20350 | 50 | #0 | 16QAM | NV | NT | 16.49  | 0.009  | -2.5 | 2.5 | PASS |
| Band 4 | 10 | 20350 | 50 | #0 | 16QAM | HV | NT | 14.65  | 0.008  | -2.5 | 2.5 | PASS |
| Band 4 | 15 | 20025 | 75 | #0 | QPSK  | LV | NT | -3.75  | -0.002 | -2.5 | 2.5 | PASS |
| Band 4 | 15 | 20025 | 75 | #0 | QPSK  | NV | NT | -14.06 | -0.008 | -2.5 | 2.5 | PASS |
| Band 4 | 15 | 20025 | 75 | #0 | QPSK  | HV | NT | -21.16 | -0.012 | -2.5 | 2.5 | PASS |
| Band 4 | 15 | 20025 | 75 | #0 | 16QAM | LV | NT | -28.82 | -0.017 | -2.5 | 2.5 | PASS |
| Band 4 | 15 | 20025 | 75 | #0 | 16QAM | NV | NT | -33.02 | -0.019 | -2.5 | 2.5 | PASS |
| Band 4 | 15 | 20025 | 75 | #0 | 16QAM | HV | NT | -37.41 | -0.022 | -2.5 | 2.5 | PASS |
| Band 4 | 15 | 20175 | 75 | #0 | QPSK  | LV | NT | 3.63   | 0.002  | -2.5 | 2.5 | PASS |
| Band 4 | 15 | 20175 | 75 | #0 | QPSK  | NV | NT | 2.66   | 0.002  | -2.5 | 2.5 | PASS |
| Band 4 | 15 | 20175 | 75 | #0 | QPSK  | HV | NT | -3.79  | -0.002 | -2.5 | 2.5 | PASS |
| Band 4 | 15 | 20175 | 75 | #0 | 16QAM | LV | NT | -7.93  | -0.005 | -2.5 | 2.5 | PASS |

|           |    |       |     |    |       |    |    |            |            |      |     |      |
|-----------|----|-------|-----|----|-------|----|----|------------|------------|------|-----|------|
| Band<br>4 | 15 | 20175 | 75  | #0 | 16QAM | NV | NT | -13.2<br>8 | -0.00<br>8 | -2.5 | 2.5 | PASS |
| Band<br>4 | 15 | 20175 | 75  | #0 | 16QAM | HV | NT | -18.7<br>1 | -0.011     | -2.5 | 2.5 | PASS |
| Band<br>4 | 15 | 20325 | 75  | #0 | QPSK  | LV | NT | -0.76      | 0.000      | -2.5 | 2.5 | PASS |
| Band<br>4 | 15 | 20325 | 75  | #0 | QPSK  | NV | NT | -3.10      | -0.00<br>2 | -2.5 | 2.5 | PASS |
| Band<br>4 | 15 | 20325 | 75  | #0 | QPSK  | HV | NT | -11.46     | -0.00<br>7 | -2.5 | 2.5 | PASS |
| Band<br>4 | 15 | 20325 | 75  | #0 | 16QAM | LV | NT | -19.2<br>8 | -0.011     | -2.5 | 2.5 | PASS |
| Band<br>4 | 15 | 20325 | 75  | #0 | 16QAM | NV | NT | -21.5<br>0 | -0.01<br>2 | -2.5 | 2.5 | PASS |
| Band<br>4 | 15 | 20325 | 75  | #0 | 16QAM | HV | NT | -18.9<br>0 | -0.011     | -2.5 | 2.5 | PASS |
| Band<br>4 | 20 | 20050 | 100 | #0 | QPSK  | LV | NT | 14.20      | 0.008      | -2.5 | 2.5 | PASS |
| Band<br>4 | 20 | 20050 | 100 | #0 | QPSK  | NV | NT | 0.09       | 0.000      | -2.5 | 2.5 | PASS |
| Band<br>4 | 20 | 20050 | 100 | #0 | QPSK  | HV | NT | -25.7<br>5 | -0.01<br>5 | -2.5 | 2.5 | PASS |
| Band<br>4 | 20 | 20050 | 100 | #0 | 16QAM | LV | NT | 3.73       | 0.002      | -2.5 | 2.5 | PASS |
| Band<br>4 | 20 | 20050 | 100 | #0 | 16QAM | NV | NT | 9.41       | 0.005      | -2.5 | 2.5 | PASS |
| Band<br>4 | 20 | 20050 | 100 | #0 | 16QAM | HV | NT | 14.58      | 0.008      | -2.5 | 2.5 | PASS |
| Band<br>4 | 20 | 20175 | 100 | #0 | QPSK  | LV | NT | 15.68      | 0.009      | -2.5 | 2.5 | PASS |
| Band<br>4 | 20 | 20175 | 100 | #0 | QPSK  | NV | NT | 14.13      | 0.008      | -2.5 | 2.5 | PASS |
| Band<br>4 | 20 | 20175 | 100 | #0 | QPSK  | HV | NT | 8.51       | 0.005      | -2.5 | 2.5 | PASS |
| Band<br>4 | 20 | 20175 | 100 | #0 | 16QAM | LV | NT | -5.81      | -0.00<br>3 | -2.5 | 2.5 | PASS |
| Band<br>4 | 20 | 20175 | 100 | #0 | 16QAM | NV | NT | -19.9<br>7 | -0.01<br>2 | -2.5 | 2.5 | PASS |
| Band<br>4 | 20 | 20175 | 100 | #0 | 16QAM | HV | NT | -28.5<br>2 | -0.01<br>6 | -2.5 | 2.5 | PASS |
| Band<br>4 | 20 | 20300 | 100 | #0 | QPSK  | LV | NT | 13.69      | 0.008      | -2.5 | 2.5 | PASS |
| Band<br>4 | 20 | 20300 | 100 | #0 | QPSK  | NV | NT | 16.67      | 0.010      | -2.5 | 2.5 | PASS |

|        |    |       |     |    |       |    |    |       |       |      |     |      |
|--------|----|-------|-----|----|-------|----|----|-------|-------|------|-----|------|
| 4      |    |       |     |    |       |    |    |       |       |      |     |      |
| Band 4 | 20 | 20300 | 100 | #0 | QPSK  | HV | NT | 16.09 | 0.009 | -2.5 | 2.5 | PASS |
| Band 4 | 20 | 20300 | 100 | #0 | 16QAM | LV | NT | 18.11 | 0.010 | -2.5 | 2.5 | PASS |
| Band 4 | 20 | 20300 | 100 | #0 | 16QAM | NV | NT | 19.57 | 0.011 | -2.5 | 2.5 | PASS |
| Band 4 | 20 | 20300 | 100 | #0 | 16QAM | HV | NT | 16.98 | 0.010 | -2.5 | 2.5 | PASS |

| Band   | Bandwidth (MHz) | UL Channel | RB Size | RB Position | Modulation | Voltage (Vdc) | Temperature (C) | Result (Hz) | Result (ppm) | Low Limit (ppm) | high Limit (ppm) | Verdict |
|--------|-----------------|------------|---------|-------------|------------|---------------|-----------------|-------------|--------------|-----------------|------------------|---------|
| Band 4 | 1.4             | 19957      | 6       | #0          | QPSK       | NV            | -30             | 18.10       | 0.011        | -2.5            | 2.5              | PASS    |
| Band 4 | 1.4             | 19957      | 6       | #0          | QPSK       | NV            | -20             | 20.23       | 0.012        | -2.5            | 2.5              | PASS    |
| Band 4 | 1.4             | 19957      | 6       | #0          | QPSK       | NV            | 0               | 22.73       | 0.013        | -2.5            | 2.5              | PASS    |
| Band 4 | 1.4             | 19957      | 6       | #0          | QPSK       | NV            | 10              | 23.89       | 0.014        | -2.5            | 2.5              | PASS    |
| Band 4 | 1.4             | 19957      | 6       | #0          | QPSK       | NV            | 20              | 25.19       | 0.015        | -2.5            | 2.5              | PASS    |
| Band 4 | 1.4             | 19957      | 6       | #0          | 16QAM      | NV            | -30             | 28.61       | 0.017        | -2.5            | 2.5              | PASS    |
| Band 4 | 1.4             | 19957      | 6       | #0          | 16QAM      | NV            | -20             | -30.27      | -0.018       | -2.5            | 2.5              | PASS    |
| Band 4 | 1.4             | 19957      | 6       | #0          | 16QAM      | NV            | 0               | -7.71       | -0.005       | -2.5            | 2.5              | PASS    |
| Band 4 | 1.4             | 19957      | 6       | #0          | 16QAM      | NV            | 10              | 19.68       | 0.012        | -2.5            | 2.5              | PASS    |
| Band 4 | 1.4             | 19957      | 6       | #0          | 16QAM      | NV            | 20              | 18.17       | 0.011        | -2.5            | 2.5              | PASS    |
| Band 4 | 1.4             | 20175      | 6       | #0          | QPSK       | NV            | -30             | 28.01       | 0.016        | -2.5            | 2.5              | PASS    |
| Band 4 | 1.4             | 20175      | 6       | #0          | QPSK       | NV            | -20             | 36.56       | 0.021        | -2.5            | 2.5              | PASS    |
| Band 4 | 1.4             | 20175      | 6       | #0          | QPSK       | NV            | 0               | 18.08       | 0.010        | -2.5            | 2.5              | PASS    |
| Band 4 | 1.4             | 20175      | 6       | #0          | QPSK       | NV            | 10              | -14.45      | -0.008       | -2.5            | 2.5              | PASS    |

|           |     |       |    |    |       |    |     |            |            |      |     |      |
|-----------|-----|-------|----|----|-------|----|-----|------------|------------|------|-----|------|
| Band<br>4 | 1.4 | 20175 | 6  | #0 | QPSK  | NV | 20  | -10.2<br>0 | -0.00<br>6 | -2.5 | 2.5 | PASS |
| Band<br>4 | 1.4 | 20175 | 6  | #0 | 16QAM | NV | -30 | -4.16      | -0.00<br>2 | -2.5 | 2.5 | PASS |
| Band<br>4 | 1.4 | 20175 | 6  | #0 | 16QAM | NV | -20 | 0.19       | 0.000      | -2.5 | 2.5 | PASS |
| Band<br>4 | 1.4 | 20175 | 6  | #0 | 16QAM | NV | 0   | 3.30       | 0.002      | -2.5 | 2.5 | PASS |
| Band<br>4 | 1.4 | 20175 | 6  | #0 | 16QAM | NV | 10  | 6.77       | 0.004      | -2.5 | 2.5 | PASS |
| Band<br>4 | 1.4 | 20175 | 6  | #0 | 16QAM | NV | 20  | 11.01      | 0.006      | -2.5 | 2.5 | PASS |
| Band<br>4 | 1.4 | 20393 | 6  | #0 | QPSK  | NV | -30 | -4.31      | -0.00<br>2 | -2.5 | 2.5 | PASS |
| Band<br>4 | 1.4 | 20393 | 6  | #0 | QPSK  | NV | -20 | -1.80      | -0.00<br>1 | -2.5 | 2.5 | PASS |
| Band<br>4 | 1.4 | 20393 | 6  | #0 | QPSK  | NV | 0   | 0.79       | 0.000      | -2.5 | 2.5 | PASS |
| Band<br>4 | 1.4 | 20393 | 6  | #0 | QPSK  | NV | 10  | 2.63       | 0.001      | -2.5 | 2.5 | PASS |
| Band<br>4 | 1.4 | 20393 | 6  | #0 | QPSK  | NV | 20  | 4.78       | 0.003      | -2.5 | 2.5 | PASS |
| Band<br>4 | 1.4 | 20393 | 6  | #0 | 16QAM | NV | -30 | 8.34       | 0.005      | -2.5 | 2.5 | PASS |
| Band<br>4 | 1.4 | 20393 | 6  | #0 | 16QAM | NV | -20 | 11.74      | 0.007      | -2.5 | 2.5 | PASS |
| Band<br>4 | 1.4 | 20393 | 6  | #0 | 16QAM | NV | 0   | 13.36      | 0.008      | -2.5 | 2.5 | PASS |
| Band<br>4 | 1.4 | 20393 | 6  | #0 | 16QAM | NV | 10  | 16.87      | 0.010      | -2.5 | 2.5 | PASS |
| Band<br>4 | 1.4 | 20393 | 6  | #0 | 16QAM | NV | 20  | 19.97      | 0.011      | -2.5 | 2.5 | PASS |
| Band<br>4 | 3   | 19965 | 15 | #0 | QPSK  | NV | -30 | 8.74       | 0.005      | -2.5 | 2.5 | PASS |
| Band<br>4 | 3   | 19965 | 15 | #0 | QPSK  | NV | -20 | 9.76       | 0.006      | -2.5 | 2.5 | PASS |
| Band<br>4 | 3   | 19965 | 15 | #0 | QPSK  | NV | 0   | 10.40      | 0.006      | -2.5 | 2.5 | PASS |
| Band<br>4 | 3   | 19965 | 15 | #0 | QPSK  | NV | 10  | 9.23       | 0.005      | -2.5 | 2.5 | PASS |
| Band<br>4 | 3   | 19965 | 15 | #0 | QPSK  | NV | 20  | 7.35       | 0.004      | -2.5 | 2.5 | PASS |
| Band<br>4 | 3   | 19965 | 15 | #0 | 16QAM | NV | -30 | 1.69       | 0.001      | -2.5 | 2.5 | PASS |



|        |   |       |    |    |       |    |     |       |        |      |     |      |
|--------|---|-------|----|----|-------|----|-----|-------|--------|------|-----|------|
| 4      |   |       |    |    |       |    |     |       |        |      |     |      |
| Band 4 | 3 | 19965 | 15 | #0 | 16QAM | NV | -20 | 2.89  | 0.002  | -2.5 | 2.5 | PASS |
| Band 4 | 3 | 19965 | 15 | #0 | 16QAM | NV | 0   | 3.59  | 0.002  | -2.5 | 2.5 | PASS |
| Band 4 | 3 | 19965 | 15 | #0 | 16QAM | NV | 10  | 5.59  | 0.003  | -2.5 | 2.5 | PASS |
| Band 4 | 3 | 19965 | 15 | #0 | 16QAM | NV | 20  | 6.55  | 0.004  | -2.5 | 2.5 | PASS |
| Band 4 | 3 | 20175 | 15 | #0 | QPSK  | NV | -30 | -1.63 | -0.001 | -2.5 | 2.5 | PASS |
| Band 4 | 3 | 20175 | 15 | #0 | QPSK  | NV | -20 | -0.74 | 0.000  | -2.5 | 2.5 | PASS |
| Band 4 | 3 | 20175 | 15 | #0 | QPSK  | NV | 0   | 1.04  | 0.001  | -2.5 | 2.5 | PASS |
| Band 4 | 3 | 20175 | 15 | #0 | QPSK  | NV | 10  | 1.83  | 0.001  | -2.5 | 2.5 | PASS |
| Band 4 | 3 | 20175 | 15 | #0 | QPSK  | NV | 20  | 3.02  | 0.002  | -2.5 | 2.5 | PASS |
| Band 4 | 3 | 20175 | 15 | #0 | 16QAM | NV | -30 | 5.56  | 0.003  | -2.5 | 2.5 | PASS |
| Band 4 | 3 | 20175 | 15 | #0 | 16QAM | NV | -20 | 7.51  | 0.004  | -2.5 | 2.5 | PASS |
| Band 4 | 3 | 20175 | 15 | #0 | 16QAM | NV | 0   | 6.88  | 0.004  | -2.5 | 2.5 | PASS |
| Band 4 | 3 | 20175 | 15 | #0 | 16QAM | NV | 10  | 8.20  | 0.005  | -2.5 | 2.5 | PASS |
| Band 4 | 3 | 20175 | 15 | #0 | 16QAM | NV | 20  | 9.54  | 0.006  | -2.5 | 2.5 | PASS |
| Band 4 | 3 | 20385 | 15 | #0 | QPSK  | NV | -30 | 4.15  | 0.002  | -2.5 | 2.5 | PASS |
| Band 4 | 3 | 20385 | 15 | #0 | QPSK  | NV | -20 | 4.66  | 0.003  | -2.5 | 2.5 | PASS |
| Band 4 | 3 | 20385 | 15 | #0 | QPSK  | NV | 0   | 2.75  | 0.002  | -2.5 | 2.5 | PASS |
| Band 4 | 3 | 20385 | 15 | #0 | QPSK  | NV | 10  | 1.57  | 0.001  | -2.5 | 2.5 | PASS |
| Band 4 | 3 | 20385 | 15 | #0 | QPSK  | NV | 20  | 2.53  | 0.001  | -2.5 | 2.5 | PASS |
| Band 4 | 3 | 20385 | 15 | #0 | 16QAM | NV | -30 | 1.86  | 0.001  | -2.5 | 2.5 | PASS |
| Band 4 | 3 | 20385 | 15 | #0 | 16QAM | NV | -20 | 3.92  | 0.002  | -2.5 | 2.5 | PASS |

|           |   |       |    |    |       |    |     |            |            |      |     |      |
|-----------|---|-------|----|----|-------|----|-----|------------|------------|------|-----|------|
| Band<br>4 | 3 | 20385 | 15 | #0 | 16QAM | NV | 0   | 4.72       | 0.003      | -2.5 | 2.5 | PASS |
| Band<br>4 | 3 | 20385 | 15 | #0 | 16QAM | NV | 10  | 7.08       | 0.004      | -2.5 | 2.5 | PASS |
| Band<br>4 | 3 | 20385 | 15 | #0 | 16QAM | NV | 20  | 9.48       | 0.005      | -2.5 | 2.5 | PASS |
| Band<br>4 | 5 | 19975 | 25 | #0 | QPSK  | NV | -30 | 4.08       | 0.002      | -2.5 | 2.5 | PASS |
| Band<br>4 | 5 | 19975 | 25 | #0 | QPSK  | NV | -20 | -1.43      | -0.00<br>1 | -2.5 | 2.5 | PASS |
| Band<br>4 | 5 | 19975 | 25 | #0 | QPSK  | NV | 0   | -4.49      | -0.00<br>3 | -2.5 | 2.5 | PASS |
| Band<br>4 | 5 | 19975 | 25 | #0 | QPSK  | NV | 10  | -9.37      | -0.00<br>5 | -2.5 | 2.5 | PASS |
| Band<br>4 | 5 | 19975 | 25 | #0 | QPSK  | NV | 20  | -24.0<br>6 | -0.01<br>4 | -2.5 | 2.5 | PASS |
| Band<br>4 | 5 | 19975 | 25 | #0 | 16QAM | NV | -30 | -17.2<br>9 | -0.01<br>0 | -2.5 | 2.5 | PASS |
| Band<br>4 | 5 | 19975 | 25 | #0 | 16QAM | NV | -20 | -16.9<br>1 | -0.01<br>0 | -2.5 | 2.5 | PASS |
| Band<br>4 | 5 | 19975 | 25 | #0 | 16QAM | NV | 0   | -16.7<br>8 | -0.01<br>0 | -2.5 | 2.5 | PASS |
| Band<br>4 | 5 | 19975 | 25 | #0 | 16QAM | NV | 10  | -16.0<br>2 | -0.00<br>9 | -2.5 | 2.5 | PASS |
| Band<br>4 | 5 | 19975 | 25 | #0 | 16QAM | NV | 20  | -12.7<br>2 | -0.00<br>7 | -2.5 | 2.5 | PASS |
| Band<br>4 | 5 | 20175 | 25 | #0 | QPSK  | NV | -30 | 18.00      | 0.010      | -2.5 | 2.5 | PASS |
| Band<br>4 | 5 | 20175 | 25 | #0 | QPSK  | NV | -20 | 17.50      | 0.010      | -2.5 | 2.5 | PASS |
| Band<br>4 | 5 | 20175 | 25 | #0 | QPSK  | NV | 0   | 19.14      | 0.011      | -2.5 | 2.5 | PASS |
| Band<br>4 | 5 | 20175 | 25 | #0 | QPSK  | NV | 10  | 19.41      | 0.011      | -2.5 | 2.5 | PASS |
| Band<br>4 | 5 | 20175 | 25 | #0 | QPSK  | NV | 20  | 18.68      | 0.011      | -2.5 | 2.5 | PASS |
| Band<br>4 | 5 | 20175 | 25 | #0 | 16QAM | NV | -30 | 20.47      | 0.012      | -2.5 | 2.5 | PASS |
| Band<br>4 | 5 | 20175 | 25 | #0 | 16QAM | NV | -20 | 22.10      | 0.013      | -2.5 | 2.5 | PASS |
| Band<br>4 | 5 | 20175 | 25 | #0 | 16QAM | NV | 0   | 23.70      | 0.014      | -2.5 | 2.5 | PASS |
| Band<br>4 | 5 | 20175 | 25 | #0 | 16QAM | NV | 10  | 26.87      | 0.016      | -2.5 | 2.5 | PASS |

|        |    |       |    |    |       |    |     |        |        |      |     |      |
|--------|----|-------|----|----|-------|----|-----|--------|--------|------|-----|------|
| 4      |    |       |    |    |       |    |     |        |        |      |     |      |
| Band 4 | 5  | 20175 | 25 | #0 | 16QAM | NV | 20  | 29.17  | 0.017  | -2.5 | 2.5 | PASS |
| Band 4 | 5  | 20375 | 25 | #0 | QPSK  | NV | -30 | 8.08   | 0.005  | -2.5 | 2.5 | PASS |
| Band 4 | 5  | 20375 | 25 | #0 | QPSK  | NV | -20 | 8.90   | 0.005  | -2.5 | 2.5 | PASS |
| Band 4 | 5  | 20375 | 25 | #0 | QPSK  | NV | 0   | 7.84   | 0.004  | -2.5 | 2.5 | PASS |
| Band 4 | 5  | 20375 | 25 | #0 | QPSK  | NV | 10  | 9.18   | 0.005  | -2.5 | 2.5 | PASS |
| Band 4 | 5  | 20375 | 25 | #0 | QPSK  | NV | 20  | 10.21  | 0.006  | -2.5 | 2.5 | PASS |
| Band 4 | 5  | 20375 | 25 | #0 | 16QAM | NV | -30 | 12.65  | 0.007  | -2.5 | 2.5 | PASS |
| Band 4 | 5  | 20375 | 25 | #0 | 16QAM | NV | -20 | 13.65  | 0.008  | -2.5 | 2.5 | PASS |
| Band 4 | 5  | 20375 | 25 | #0 | 16QAM | NV | 0   | 16.81  | 0.010  | -2.5 | 2.5 | PASS |
| Band 4 | 5  | 20375 | 25 | #0 | 16QAM | NV | 10  | 19.63  | 0.011  | -2.5 | 2.5 | PASS |
| Band 4 | 5  | 20375 | 25 | #0 | 16QAM | NV | 20  | 22.63  | 0.013  | -2.5 | 2.5 | PASS |
| Band 4 | 10 | 20000 | 50 | #0 | QPSK  | NV | -30 | 4.89   | 0.003  | -2.5 | 2.5 | PASS |
| Band 4 | 10 | 20000 | 50 | #0 | QPSK  | NV | -20 | 4.75   | 0.003  | -2.5 | 2.5 | PASS |
| Band 4 | 10 | 20000 | 50 | #0 | QPSK  | NV | 0   | -7.30  | -0.004 | -2.5 | 2.5 | PASS |
| Band 4 | 10 | 20000 | 50 | #0 | QPSK  | NV | 10  | -20.08 | -0.012 | -2.5 | 2.5 | PASS |
| Band 4 | 10 | 20000 | 50 | #0 | QPSK  | NV | 20  | -29.20 | -0.017 | -2.5 | 2.5 | PASS |
| Band 4 | 10 | 20000 | 50 | #0 | 16QAM | NV | -30 | -33.50 | -0.020 | -2.5 | 2.5 | PASS |
| Band 4 | 10 | 20000 | 50 | #0 | 16QAM | NV | -20 | 7.55   | 0.004  | -2.5 | 2.5 | PASS |
| Band 4 | 10 | 20000 | 50 | #0 | 16QAM | NV | 0   | 7.42   | 0.004  | -2.5 | 2.5 | PASS |
| Band 4 | 10 | 20000 | 50 | #0 | 16QAM | NV | 10  | 6.19   | 0.004  | -2.5 | 2.5 | PASS |
| Band 4 | 10 | 20000 | 50 | #0 | 16QAM | NV | 20  | 5.69   | 0.003  | -2.5 | 2.5 | PASS |

|           |    |       |    |    |       |    |     |       |       |      |     |      |
|-----------|----|-------|----|----|-------|----|-----|-------|-------|------|-----|------|
| Band<br>4 | 10 | 20175 | 50 | #0 | QPSK  | NV | -30 | 7.50  | 0.004 | -2.5 | 2.5 | PASS |
| Band<br>4 | 10 | 20175 | 50 | #0 | QPSK  | NV | -20 | 7.28  | 0.004 | -2.5 | 2.5 | PASS |
| Band<br>4 | 10 | 20175 | 50 | #0 | QPSK  | NV | 0   | 8.60  | 0.005 | -2.5 | 2.5 | PASS |
| Band<br>4 | 10 | 20175 | 50 | #0 | QPSK  | NV | 10  | 5.74  | 0.003 | -2.5 | 2.5 | PASS |
| Band<br>4 | 10 | 20175 | 50 | #0 | QPSK  | NV | 20  | 5.39  | 0.003 | -2.5 | 2.5 | PASS |
| Band<br>4 | 10 | 20175 | 50 | #0 | 16QAM | NV | -30 | 7.25  | 0.004 | -2.5 | 2.5 | PASS |
| Band<br>4 | 10 | 20175 | 50 | #0 | 16QAM | NV | -20 | 8.30  | 0.005 | -2.5 | 2.5 | PASS |
| Band<br>4 | 10 | 20175 | 50 | #0 | 16QAM | NV | 0   | 10.67 | 0.006 | -2.5 | 2.5 | PASS |
| Band<br>4 | 10 | 20175 | 50 | #0 | 16QAM | NV | 10  | 14.69 | 0.008 | -2.5 | 2.5 | PASS |
| Band<br>4 | 10 | 20175 | 50 | #0 | 16QAM | NV | 20  | 17.45 | 0.010 | -2.5 | 2.5 | PASS |
| Band<br>4 | 10 | 20350 | 50 | #0 | QPSK  | NV | -30 | 2.49  | 0.001 | -2.5 | 2.5 | PASS |
| Band<br>4 | 10 | 20350 | 50 | #0 | QPSK  | NV | -20 | 3.88  | 0.002 | -2.5 | 2.5 | PASS |
| Band<br>4 | 10 | 20350 | 50 | #0 | QPSK  | NV | 0   | 5.12  | 0.003 | -2.5 | 2.5 | PASS |
| Band<br>4 | 10 | 20350 | 50 | #0 | QPSK  | NV | 10  | 6.02  | 0.003 | -2.5 | 2.5 | PASS |
| Band<br>4 | 10 | 20350 | 50 | #0 | QPSK  | NV | 20  | 8.63  | 0.005 | -2.5 | 2.5 | PASS |
| Band<br>4 | 10 | 20350 | 50 | #0 | 16QAM | NV | -30 | 8.17  | 0.005 | -2.5 | 2.5 | PASS |
| Band<br>4 | 10 | 20350 | 50 | #0 | 16QAM | NV | -20 | 10.30 | 0.006 | -2.5 | 2.5 | PASS |
| Band<br>4 | 10 | 20350 | 50 | #0 | 16QAM | NV | 0   | 11.80 | 0.007 | -2.5 | 2.5 | PASS |
| Band<br>4 | 10 | 20350 | 50 | #0 | 16QAM | NV | 10  | 16.41 | 0.009 | -2.5 | 2.5 | PASS |
| Band<br>4 | 10 | 20350 | 50 | #0 | 16QAM | NV | 20  | 18.18 | 0.010 | -2.5 | 2.5 | PASS |
| Band<br>4 | 15 | 20025 | 75 | #0 | QPSK  | NV | -30 | 9.91  | 0.006 | -2.5 | 2.5 | PASS |
| Band<br>4 | 15 | 20025 | 75 | #0 | QPSK  | NV | -20 | 3.52  | 0.002 | -2.5 | 2.5 | PASS |

|        |    |       |    |    |       |    |     |            |            |      |     |      |
|--------|----|-------|----|----|-------|----|-----|------------|------------|------|-----|------|
| 4      |    |       |    |    |       |    |     |            |            |      |     |      |
| Band 4 | 15 | 20025 | 75 | #0 | QPSK  | NV | 0   | -3.33      | -0.00<br>2 | -2.5 | 2.5 | PASS |
| Band 4 | 15 | 20025 | 75 | #0 | QPSK  | NV | 10  | -5.87      | -0.00<br>3 | -2.5 | 2.5 | PASS |
| Band 4 | 15 | 20025 | 75 | #0 | QPSK  | NV | 20  | -9.78      | -0.00<br>6 | -2.5 | 2.5 | PASS |
| Band 4 | 15 | 20025 | 75 | #0 | 16QAM | NV | -30 | -10.1<br>7 | -0.00<br>6 | -2.5 | 2.5 | PASS |
| Band 4 | 15 | 20025 | 75 | #0 | 16QAM | NV | -20 | -8.96      | -0.00<br>5 | -2.5 | 2.5 | PASS |
| Band 4 | 15 | 20025 | 75 | #0 | 16QAM | NV | 0   | -29.4<br>1 | -0.01<br>7 | -2.5 | 2.5 | PASS |
| Band 4 | 15 | 20025 | 75 | #0 | 16QAM | NV | 10  | 10.60      | 0.006      | -2.5 | 2.5 | PASS |
| Band 4 | 15 | 20025 | 75 | #0 | 16QAM | NV | 20  | 14.98      | 0.009      | -2.5 | 2.5 | PASS |
| Band 4 | 15 | 20175 | 75 | #0 | QPSK  | NV | -30 | 8.41       | 0.005      | -2.5 | 2.5 | PASS |
| Band 4 | 15 | 20175 | 75 | #0 | QPSK  | NV | -20 | 8.90       | 0.005      | -2.5 | 2.5 | PASS |
| Band 4 | 15 | 20175 | 75 | #0 | QPSK  | NV | 0   | 7.62       | 0.004      | -2.5 | 2.5 | PASS |
| Band 4 | 15 | 20175 | 75 | #0 | QPSK  | NV | 10  | 5.21       | 0.003      | -2.5 | 2.5 | PASS |
| Band 4 | 15 | 20175 | 75 | #0 | QPSK  | NV | 20  | 2.93       | 0.002      | -2.5 | 2.5 | PASS |
| Band 4 | 15 | 20175 | 75 | #0 | 16QAM | NV | -30 | 3.85       | 0.002      | -2.5 | 2.5 | PASS |
| Band 4 | 15 | 20175 | 75 | #0 | 16QAM | NV | -20 | 4.84       | 0.003      | -2.5 | 2.5 | PASS |
| Band 4 | 15 | 20175 | 75 | #0 | 16QAM | NV | 0   | 5.98       | 0.003      | -2.5 | 2.5 | PASS |
| Band 4 | 15 | 20175 | 75 | #0 | 16QAM | NV | 10  | 7.07       | 0.004      | -2.5 | 2.5 | PASS |
| Band 4 | 15 | 20175 | 75 | #0 | 16QAM | NV | 20  | 9.66       | 0.006      | -2.5 | 2.5 | PASS |
| Band 4 | 15 | 20325 | 75 | #0 | QPSK  | NV | -30 | -11.82     | -0.00<br>7 | -2.5 | 2.5 | PASS |
| Band 4 | 15 | 20325 | 75 | #0 | QPSK  | NV | -20 | -16.3<br>9 | -0.00<br>9 | -2.5 | 2.5 | PASS |
| Band 4 | 15 | 20325 | 75 | #0 | QPSK  | NV | 0   | -19.3<br>1 | -0.011     | -2.5 | 2.5 | PASS |

|           |    |       |     |    |       |    |     |            |            |      |     |      |
|-----------|----|-------|-----|----|-------|----|-----|------------|------------|------|-----|------|
| Band<br>4 | 15 | 20325 | 75  | #0 | QPSK  | NV | 10  | -25.8<br>4 | -0.01<br>5 | -2.5 | 2.5 | PASS |
| Band<br>4 | 15 | 20325 | 75  | #0 | QPSK  | NV | 20  | -30.8<br>3 | -0.01<br>8 | -2.5 | 2.5 | PASS |
| Band<br>4 | 15 | 20325 | 75  | #0 | 16QAM | NV | -30 | -33.2<br>5 | -0.01<br>9 | -2.5 | 2.5 | PASS |
| Band<br>4 | 15 | 20325 | 75  | #0 | 16QAM | NV | -20 | -32.5<br>9 | -0.01<br>9 | -2.5 | 2.5 | PASS |
| Band<br>4 | 15 | 20325 | 75  | #0 | 16QAM | NV | 0   | -32.1<br>4 | -0.01<br>8 | -2.5 | 2.5 | PASS |
| Band<br>4 | 15 | 20325 | 75  | #0 | 16QAM | NV | 10  | -32.7<br>4 | -0.01<br>9 | -2.5 | 2.5 | PASS |
| Band<br>4 | 15 | 20325 | 75  | #0 | 16QAM | NV | 20  | -33.7<br>0 | -0.01<br>9 | -2.5 | 2.5 | PASS |
| Band<br>4 | 20 | 20050 | 100 | #0 | QPSK  | NV | -30 | 7.78       | 0.005      | -2.5 | 2.5 | PASS |
| Band<br>4 | 20 | 20050 | 100 | #0 | QPSK  | NV | -20 | 3.43       | 0.002      | -2.5 | 2.5 | PASS |
| Band<br>4 | 20 | 20050 | 100 | #0 | QPSK  | NV | 0   | -2.29      | -0.00<br>1 | -2.5 | 2.5 | PASS |
| Band<br>4 | 20 | 20050 | 100 | #0 | QPSK  | NV | 10  | -8.24      | -0.00<br>5 | -2.5 | 2.5 | PASS |
| Band<br>4 | 20 | 20050 | 100 | #0 | QPSK  | NV | 20  | -12.9<br>5 | -0.00<br>8 | -2.5 | 2.5 | PASS |
| Band<br>4 | 20 | 20050 | 100 | #0 | 16QAM | NV | -30 | -14.6<br>2 | -0.00<br>9 | -2.5 | 2.5 | PASS |
| Band<br>4 | 20 | 20050 | 100 | #0 | 16QAM | NV | -20 | -16.8<br>9 | -0.01<br>0 | -2.5 | 2.5 | PASS |
| Band<br>4 | 20 | 20050 | 100 | #0 | 16QAM | NV | 0   | -22.5<br>3 | -0.01<br>3 | -2.5 | 2.5 | PASS |
| Band<br>4 | 20 | 20050 | 100 | #0 | 16QAM | NV | 10  | -27.3<br>7 | -0.01<br>6 | -2.5 | 2.5 | PASS |
| Band<br>4 | 20 | 20050 | 100 | #0 | 16QAM | NV | 20  | -5.56      | -0.00<br>3 | -2.5 | 2.5 | PASS |
| Band<br>4 | 20 | 20175 | 100 | #0 | QPSK  | NV | -30 | 3.96       | 0.002      | -2.5 | 2.5 | PASS |
| Band<br>4 | 20 | 20175 | 100 | #0 | QPSK  | NV | -20 | -6.27      | -0.00<br>4 | -2.5 | 2.5 | PASS |
| Band<br>4 | 20 | 20175 | 100 | #0 | QPSK  | NV | 0   | -13.9<br>5 | -0.00<br>8 | -2.5 | 2.5 | PASS |
| Band<br>4 | 20 | 20175 | 100 | #0 | QPSK  | NV | 10  | -19.0<br>8 | -0.011     | -2.5 | 2.5 | PASS |
| Band<br>4 | 20 | 20175 | 100 | #0 | QPSK  | NV | 20  | -21.4      | -0.01      | -2.5 | 2.5 | PASS |

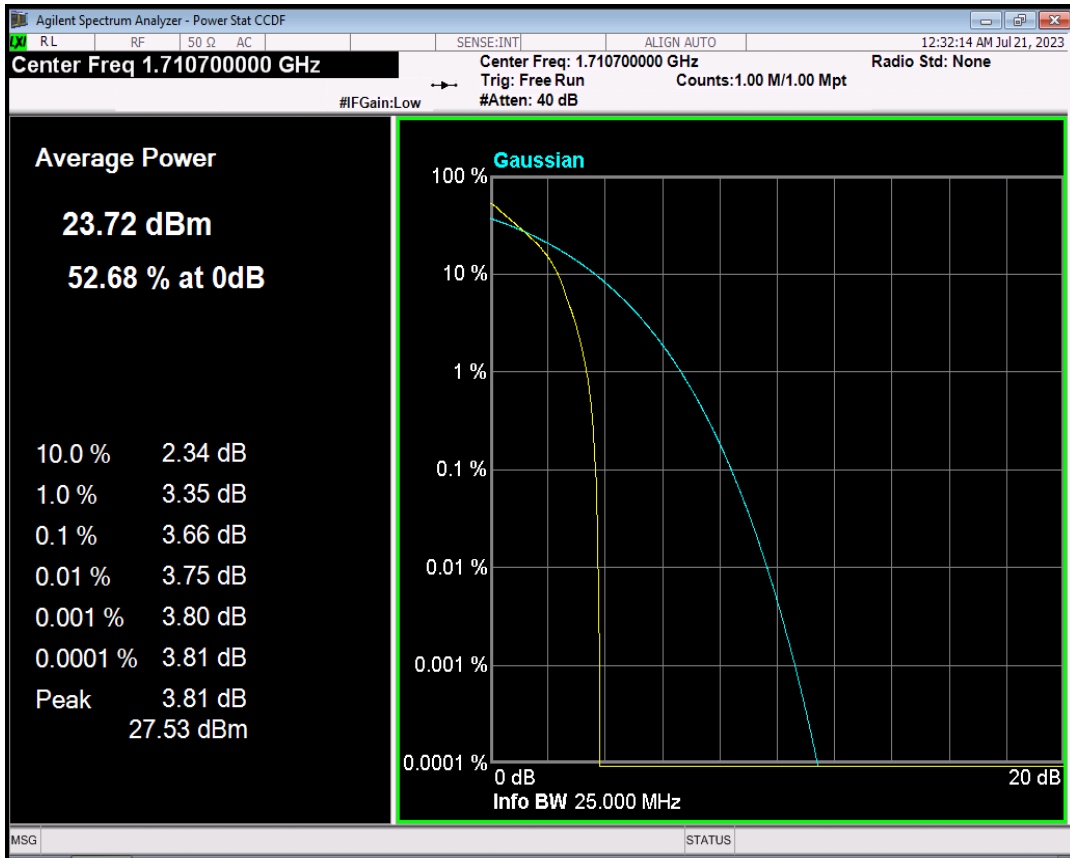
|           |    |       |     |    |       |    |     |            |            |      |     |      |
|-----------|----|-------|-----|----|-------|----|-----|------------|------------|------|-----|------|
| 4         |    |       |     |    |       |    |     | 0          | 2          |      |     |      |
| Band<br>4 | 20 | 20175 | 100 | #0 | 16QAM | NV | -30 | -22.8<br>9 | -0.01<br>3 | -2.5 | 2.5 | PASS |
| Band<br>4 | 20 | 20175 | 100 | #0 | 16QAM | NV | -20 | -23.7<br>2 | -0.01<br>4 | -2.5 | 2.5 | PASS |
| Band<br>4 | 20 | 20175 | 100 | #0 | 16QAM | NV | 0   | -22.8<br>6 | -0.01<br>3 | -2.5 | 2.5 | PASS |
| Band<br>4 | 20 | 20175 | 100 | #0 | 16QAM | NV | 10  | -22.6<br>3 | -0.01<br>3 | -2.5 | 2.5 | PASS |
| Band<br>4 | 20 | 20175 | 100 | #0 | 16QAM | NV | 20  | -22.0<br>2 | -0.01<br>3 | -2.5 | 2.5 | PASS |
| Band<br>4 | 20 | 20300 | 100 | #0 | QPSK  | NV | -30 | 7.91       | 0.005      | -2.5 | 2.5 | PASS |
| Band<br>4 | 20 | 20300 | 100 | #0 | QPSK  | NV | -20 | 2.70       | 0.002      | -2.5 | 2.5 | PASS |
| Band<br>4 | 20 | 20300 | 100 | #0 | QPSK  | NV | 0   | 1.06       | 0.001      | -2.5 | 2.5 | PASS |
| Band<br>4 | 20 | 20300 | 100 | #0 | QPSK  | NV | 10  | -1.82      | -0.00<br>1 | -2.5 | 2.5 | PASS |
| Band<br>4 | 20 | 20300 | 100 | #0 | QPSK  | NV | 20  | -5.14      | -0.00<br>3 | -2.5 | 2.5 | PASS |
| Band<br>4 | 20 | 20300 | 100 | #0 | 16QAM | NV | -30 | -5.75      | -0.00<br>3 | -2.5 | 2.5 | PASS |
| Band<br>4 | 20 | 20300 | 100 | #0 | 16QAM | NV | -20 | -4.69      | -0.00<br>3 | -2.5 | 2.5 | PASS |
| Band<br>4 | 20 | 20300 | 100 | #0 | 16QAM | NV | 0   | -4.65      | -0.00<br>3 | -2.5 | 2.5 | PASS |
| Band<br>4 | 20 | 20300 | 100 | #0 | 16QAM | NV | 10  | -2.99      | -0.00<br>2 | -2.5 | 2.5 | PASS |
| Band<br>4 | 20 | 20300 | 100 | #0 | 16QAM | NV | 20  | -2.79      | -0.00<br>2 | -2.5 | 2.5 | PASS |

### Appendix 3. Peak-to-Average Ratio

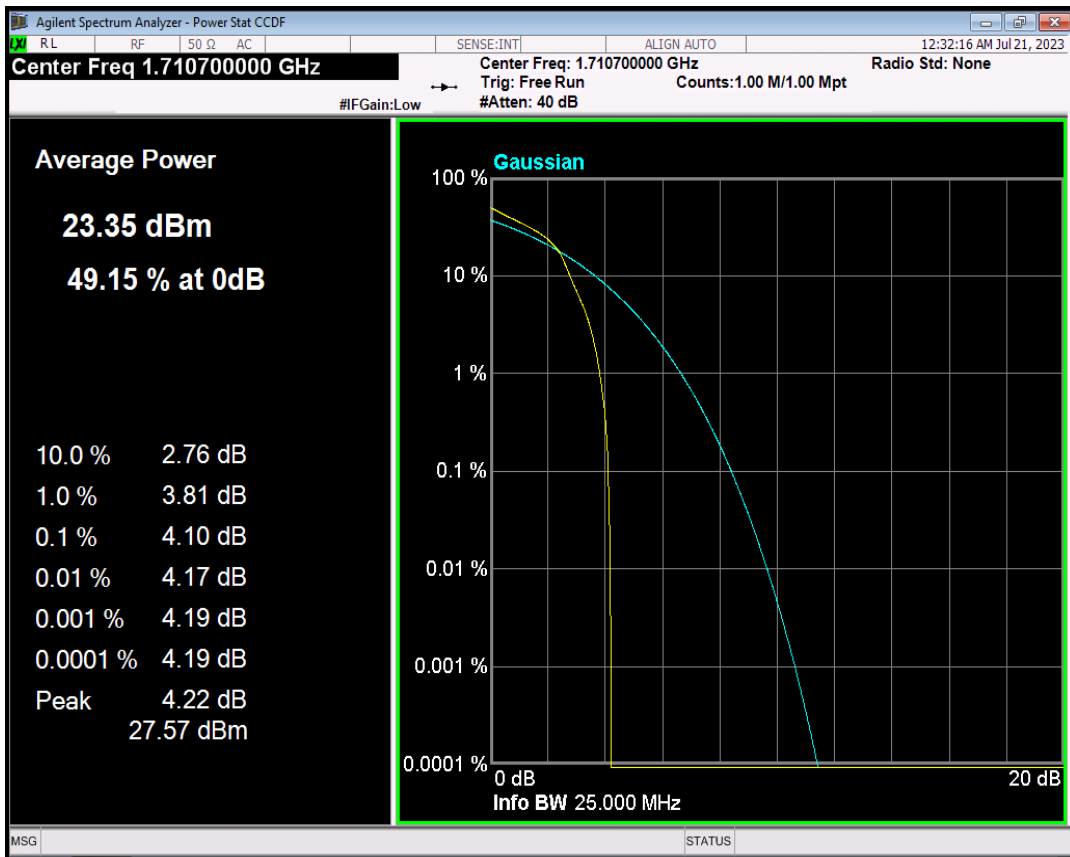
| Band  | Bandwidth (MHz) | UL Channel | RB Size | RB Position | Modulation | Result (dB) | high Limit (dB) | Verdict |
|-------|-----------------|------------|---------|-------------|------------|-------------|-----------------|---------|
| Band4 | 1.4             | 19957      | 1       | #0          | QPSK       | 3.66        | 13              | PASS    |
| Band4 | 1.4             | 19957      | 1       | #0          | 16QAM      | 4.10        | 13              | PASS    |
| Band4 | 1.4             | 20175      | 1       | #0          | QPSK       | 4.14        | 13              | PASS    |
| Band4 | 1.4             | 20175      | 1       | #0          | 16QAM      | 4.75        | 13              | PASS    |
| Band4 | 1.4             | 20393      | 1       | #0          | QPSK       | 3.92        | 13              | PASS    |
| Band4 | 1.4             | 20393      | 1       | #0          | 16QAM      | 4.59        | 13              | PASS    |
| Band4 | 3               | 19965      | 1       | #0          | QPSK       | 3.76        | 13              | PASS    |
| Band4 | 3               | 19965      | 1       | #0          | 16QAM      | 4.18        | 13              | PASS    |
| Band4 | 3               | 20175      | 1       | #0          | QPSK       | 4.26        | 13              | PASS    |
| Band4 | 3               | 20175      | 1       | #0          | 16QAM      | 4.36        | 13              | PASS    |
| Band4 | 3               | 20385      | 1       | #0          | QPSK       | 3.46        | 13              | PASS    |
| Band4 | 3               | 20385      | 1       | #0          | 16QAM      | 4.07        | 13              | PASS    |
| Band4 | 5               | 19975      | 1       | #0          | QPSK       | 3.81        | 13              | PASS    |
| Band4 | 5               | 19975      | 1       | #0          | 16QAM      | 4.55        | 13              | PASS    |
| Band4 | 5               | 20175      | 1       | #0          | QPSK       | 4.27        | 13              | PASS    |
| Band4 | 5               | 20175      | 1       | #0          | 16QAM      | 4.74        | 13              | PASS    |
| Band4 | 5               | 20375      | 1       | #0          | QPSK       | 3.40        | 13              | PASS    |
| Band4 | 5               | 20375      | 1       | #0          | 16QAM      | 4.01        | 13              | PASS    |
| Band4 | 10              | 20000      | 1       | #0          | QPSK       | 3.69        | 13              | PASS    |
| Band4 | 10              | 20000      | 1       | #0          | 16QAM      | 4.13        | 13              | PASS    |
| Band4 | 10              | 20175      | 1       | #0          | QPSK       | 4.58        | 13              | PASS    |
| Band4 | 10              | 20175      | 1       | #0          | 16QAM      | 4.78        | 13              | PASS    |
| Band4 | 10              | 20350      | 1       | #0          | QPSK       | 3.51        | 13              | PASS    |
| Band4 | 10              | 20350      | 1       | #0          | 16QAM      | 4.12        | 13              | PASS    |
| Band4 | 15              | 20025      | 1       | #0          | QPSK       | 3.70        | 13              | PASS    |
| Band4 | 15              | 20025      | 1       | #0          | 16QAM      | 4.10        | 13              | PASS    |
| Band4 | 15              | 20175      | 1       | #0          | QPSK       | 4.90        | 13              | PASS    |
| Band4 | 15              | 20175      | 1       | #0          | 16QAM      | 5.56        | 13              | PASS    |
| Band4 | 15              | 20325      | 1       | #0          | QPSK       | 4.35        | 13              | PASS    |
| Band4 | 15              | 20325      | 1       | #0          | 16QAM      | 4.69        | 13              | PASS    |
| Band4 | 20              | 20050      | 1       | #0          | QPSK       | 3.49        | 13              | PASS    |
| Band4 | 20              | 20050      | 1       | #0          | 16QAM      | 4.05        | 13              | PASS    |
| Band4 | 20              | 20175      | 1       | #0          | QPSK       | 5.14        | 13              | PASS    |
| Band4 | 20              | 20175      | 1       | #0          | 16QAM      | 5.92        | 13              | PASS    |
| Band4 | 20              | 20300      | 1       | #0          | QPSK       | 4.27        | 13              | PASS    |
| Band4 | 20              | 20300      | 1       | #0          | 16QAM      | 4.77        | 13              | PASS    |

Band4 QPSK BW=1.4MHz Channel=19957 RB Size=1 Position=#0



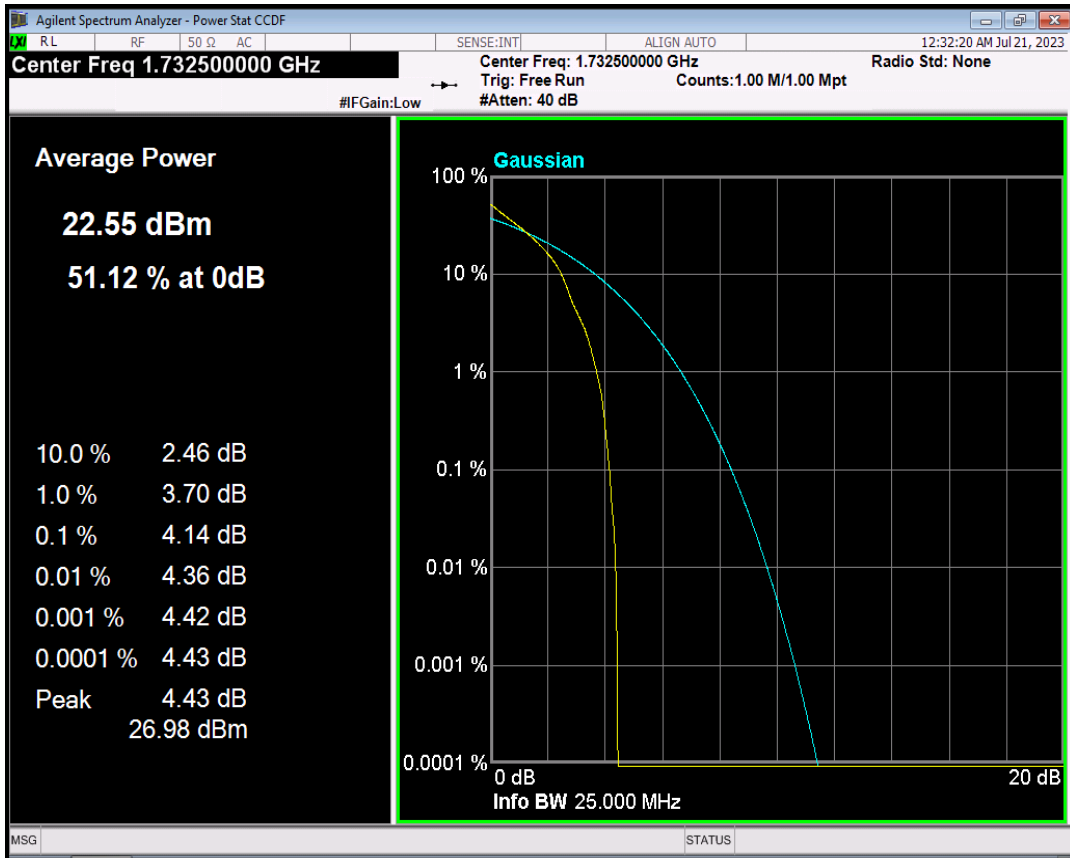


Band4 16QAM BW=1.4MHz Channel=19957 RB Size=1 Position=#0

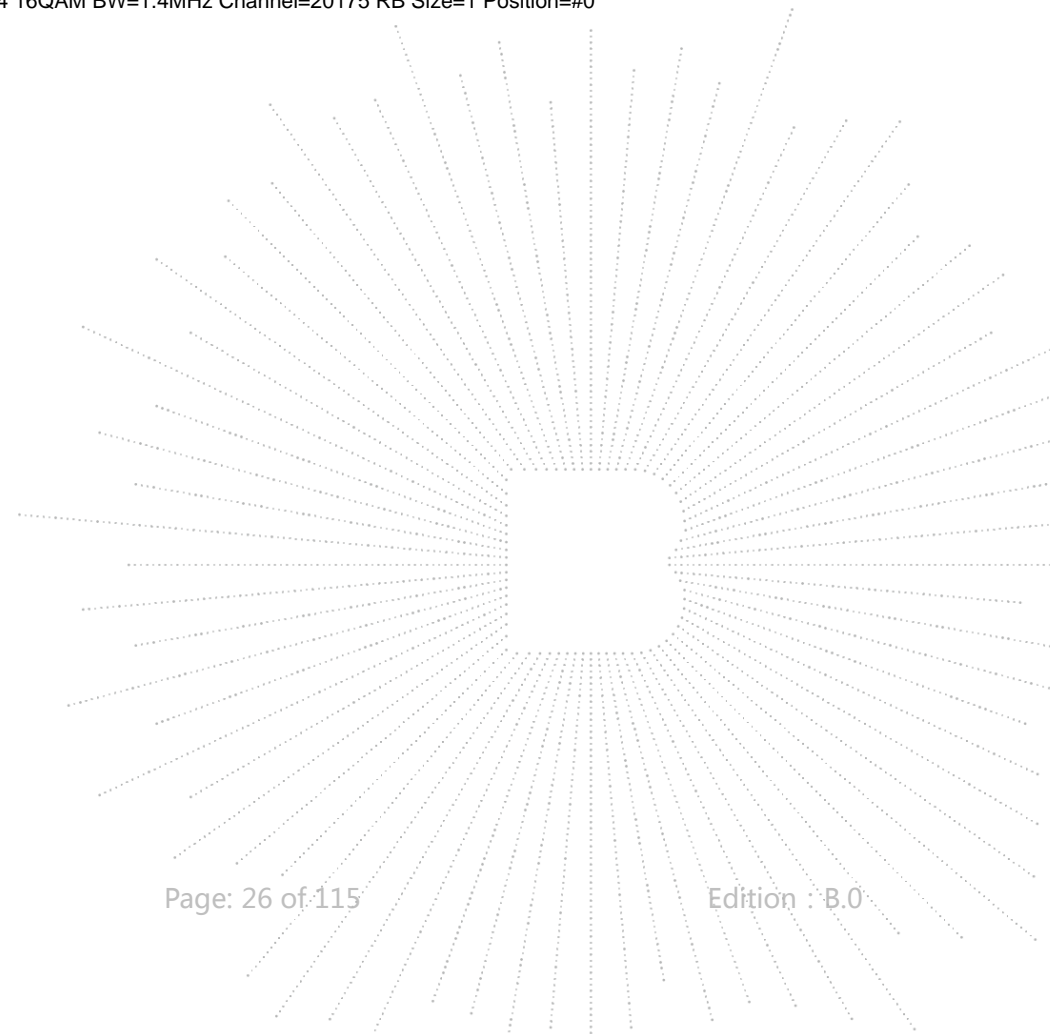


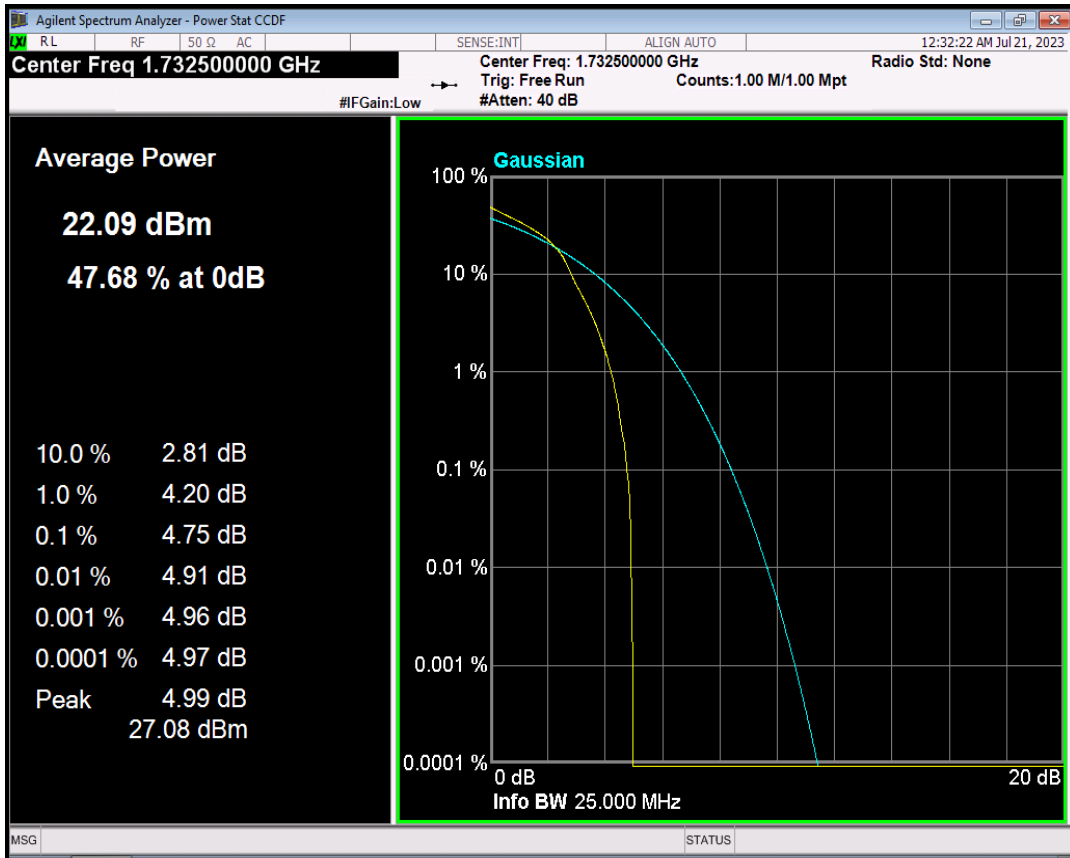


Band4 QPSK BW=1.4MHz Channel=20175 RB Size=1 Position=#0

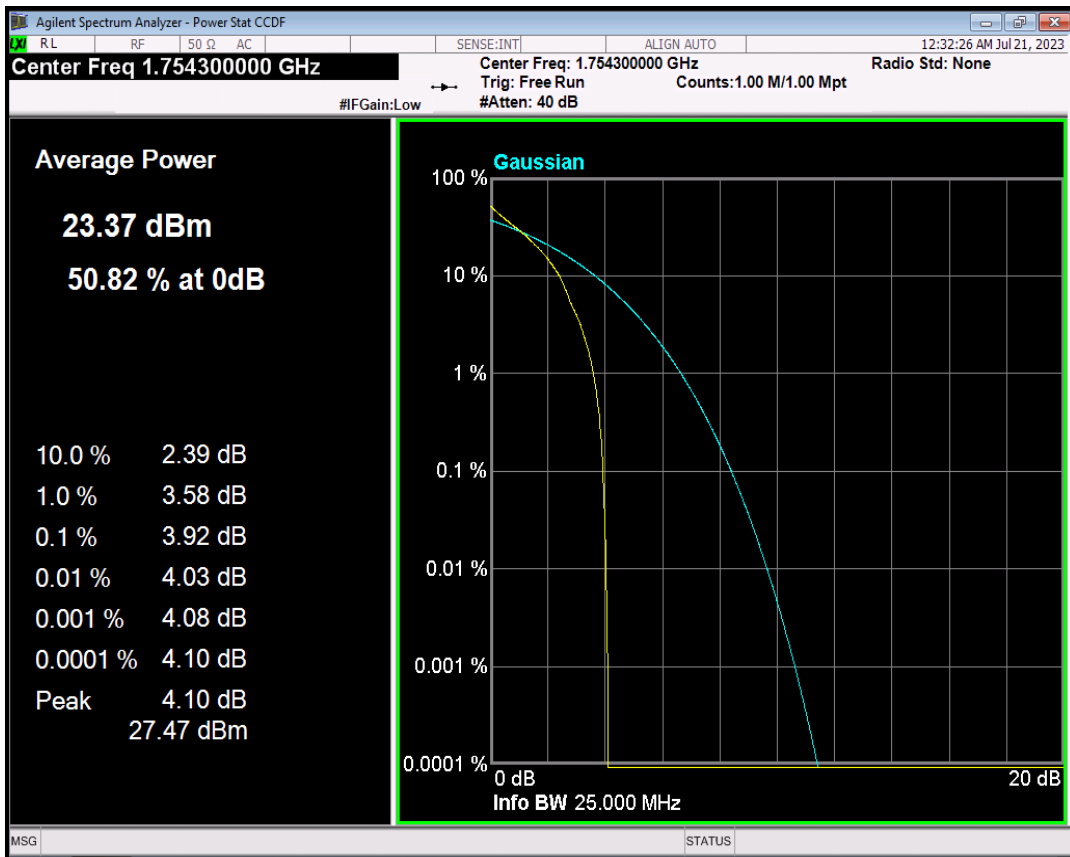


Band4 16QAM BW=1.4MHz Channel=20175 RB Size=1 Position=#0



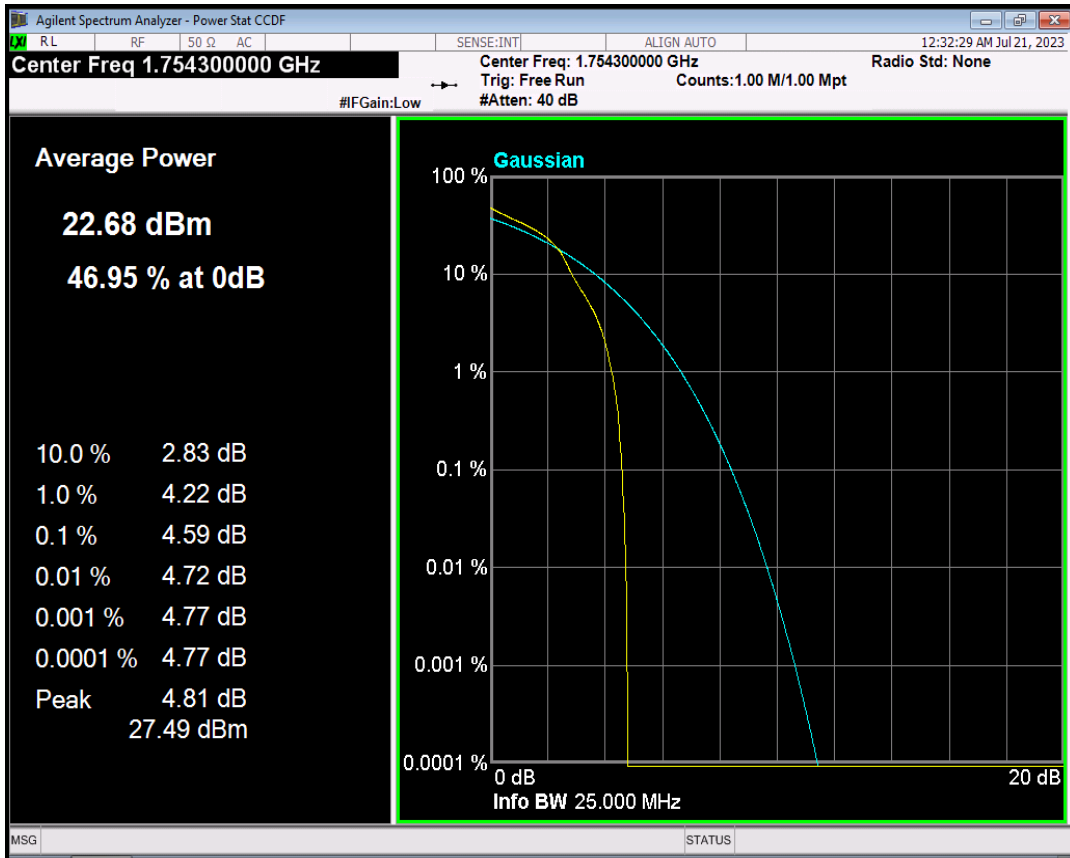


Band4 QPSK BW=1.4MHz Channel=20393 RB Size=1 Position=#0

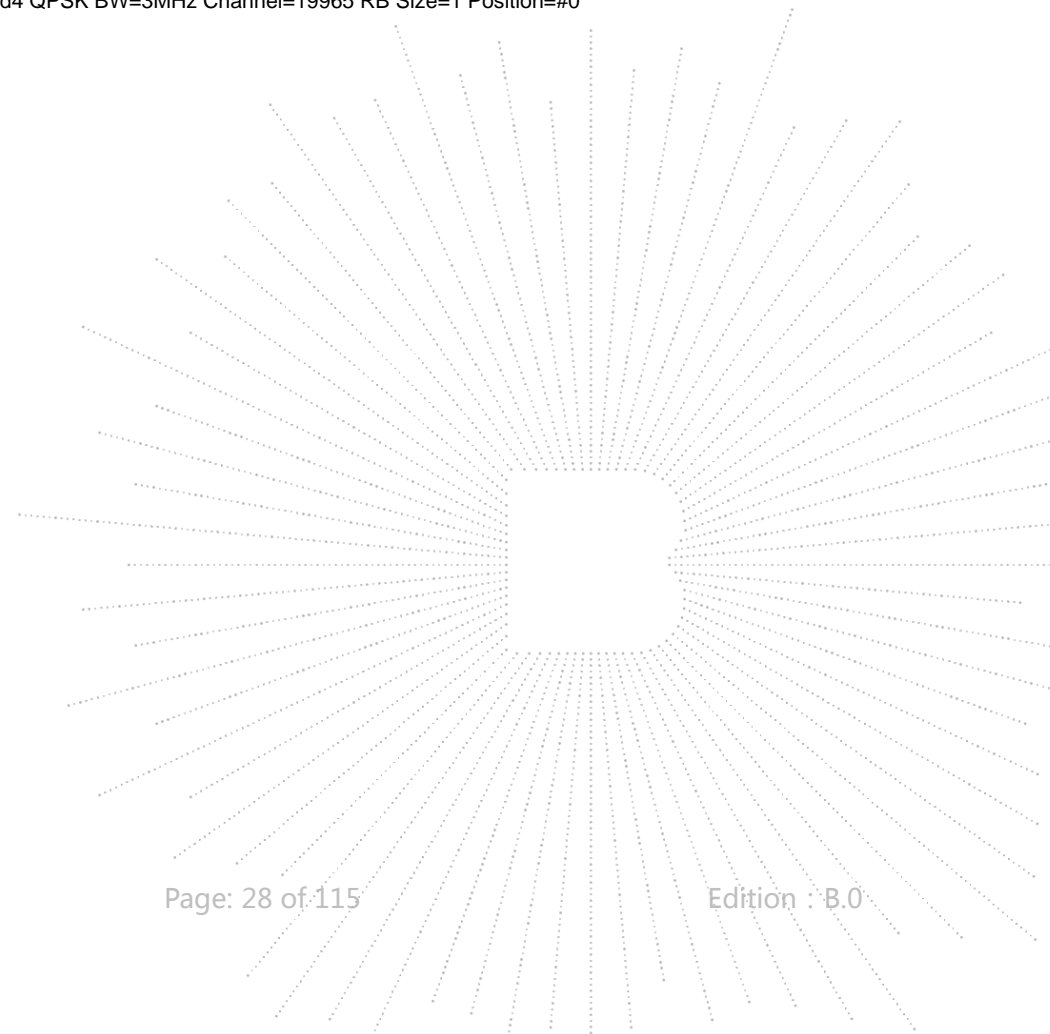


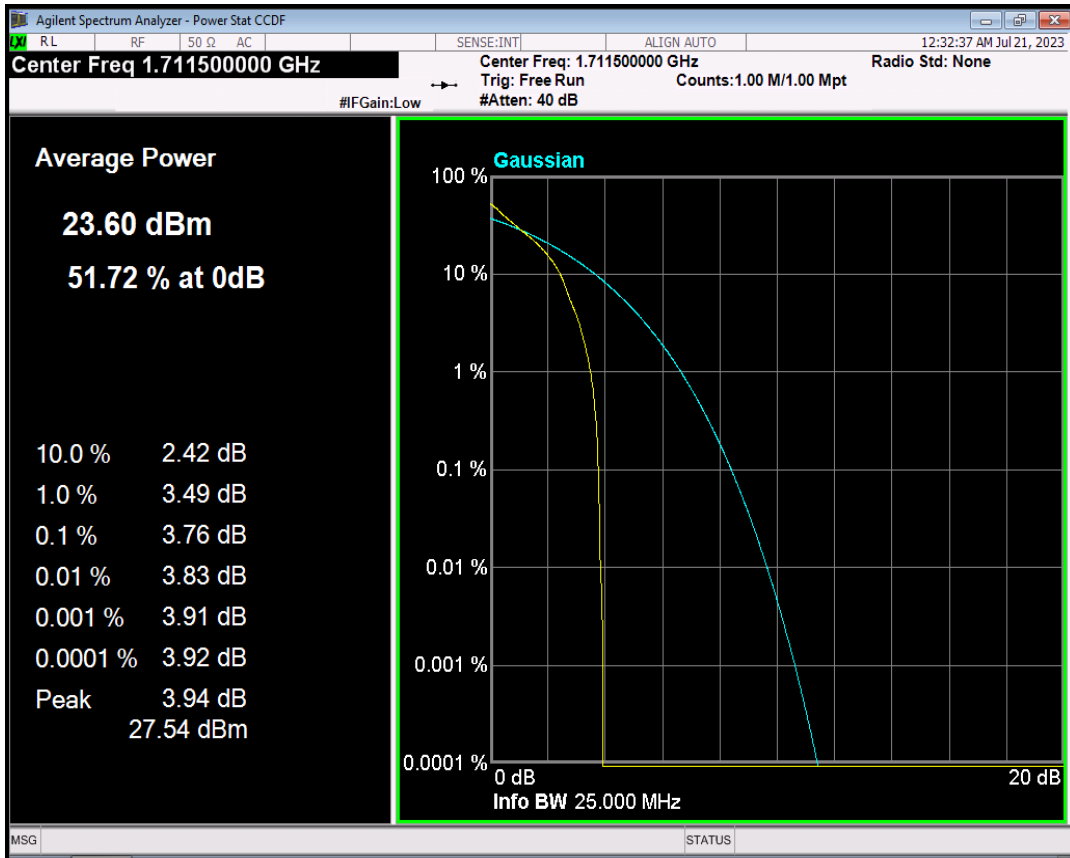


Band4 16QAM BW=1.4MHz Channel=20393 RB Size=1 Position=#0

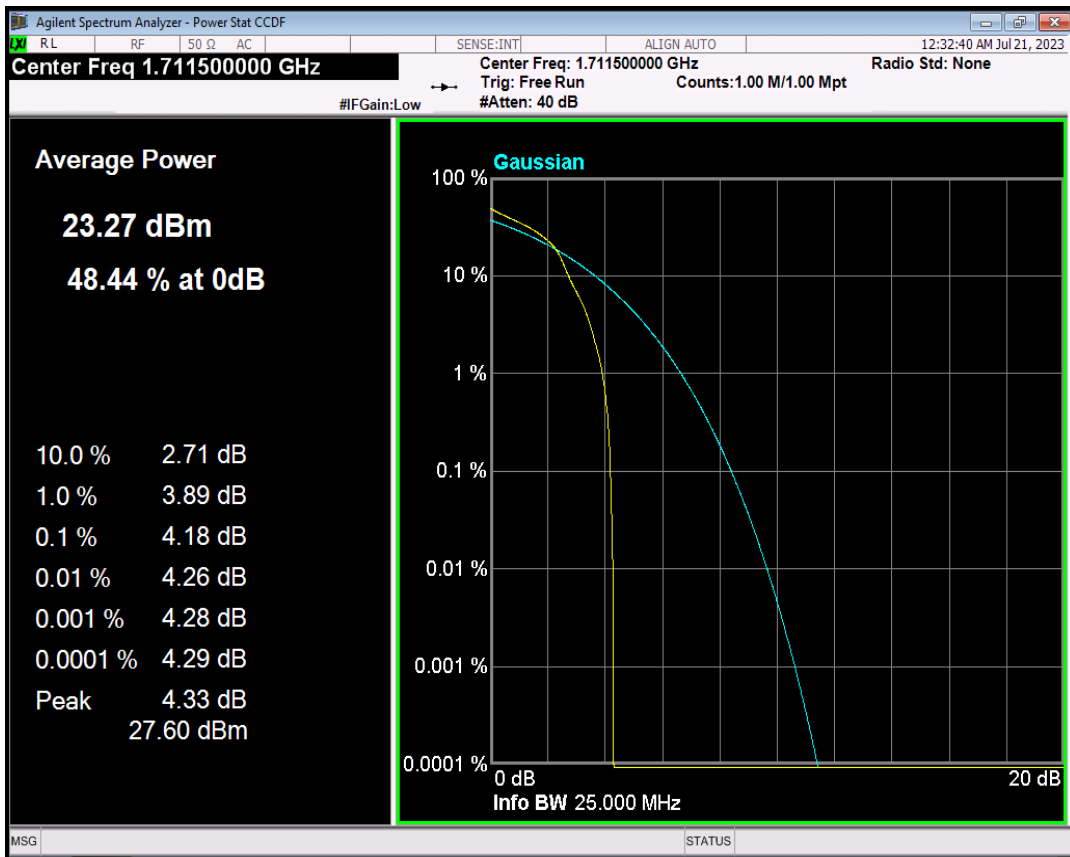


Band4 QPSK BW=3MHz Channel=19965 RB Size=1 Position=#0

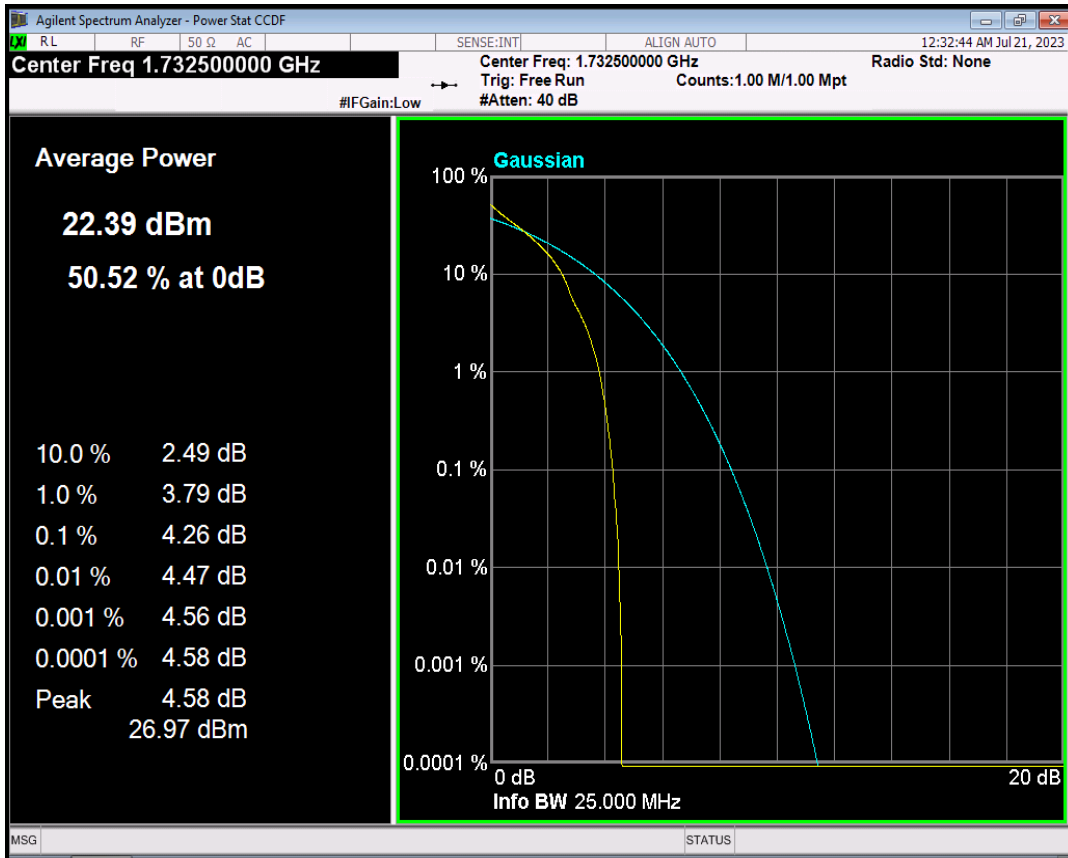




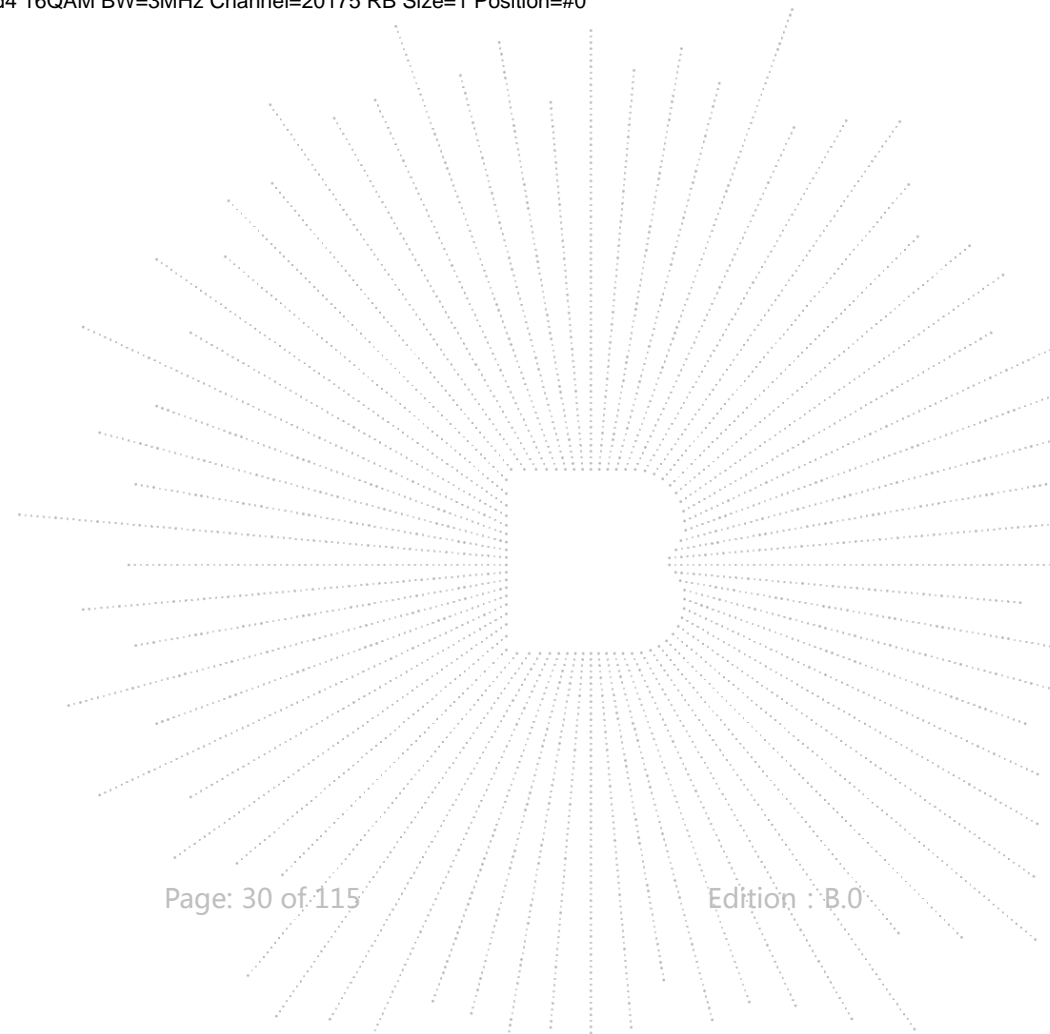
Band4 16QAM BW=3MHz Channel=19965 RB Size=1 Position=#0

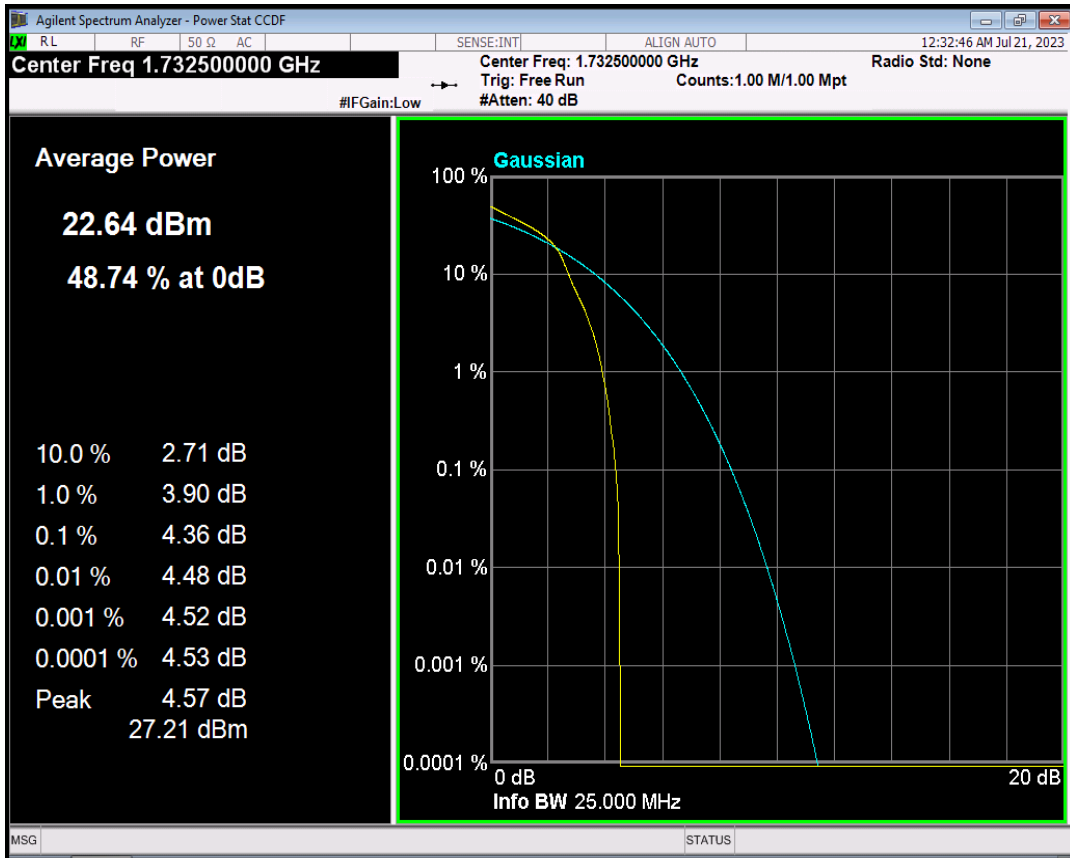


Band4 QPSK BW=3MHz Channel=20175 RB Size=1 Position=#0

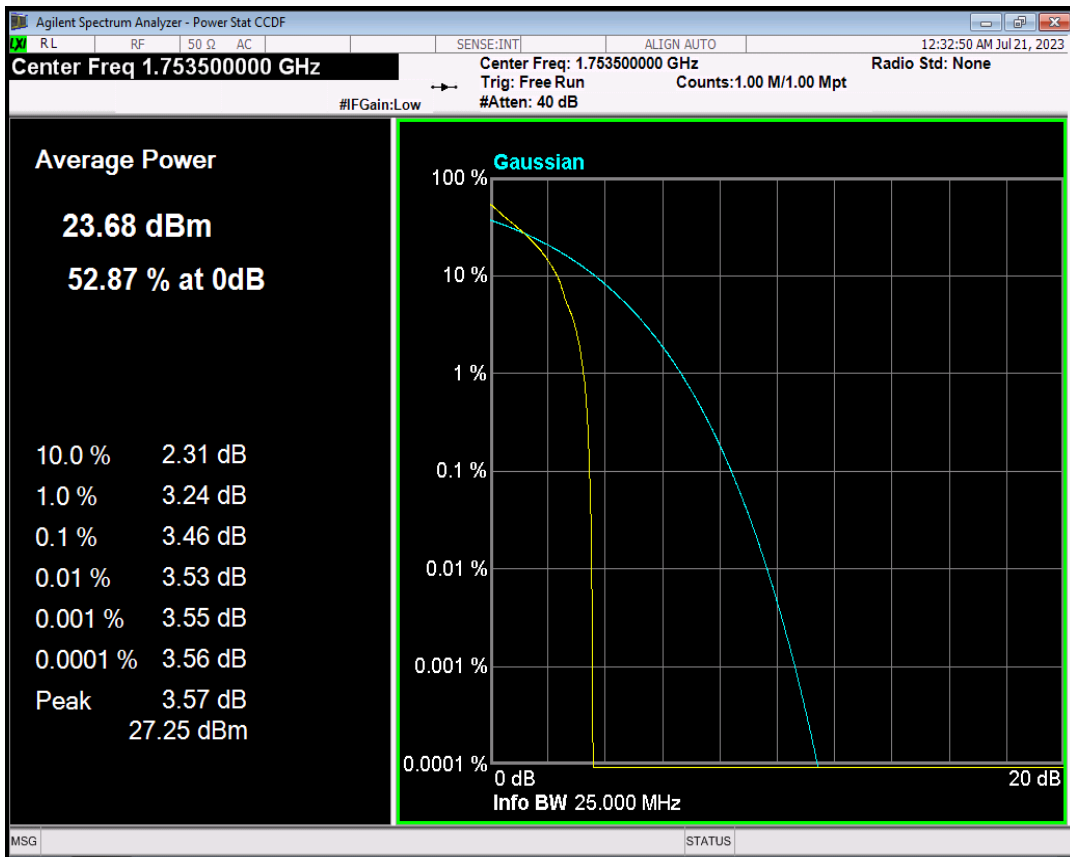


Band4 16QAM BW=3MHz Channel=20175 RB Size=1 Position=#0



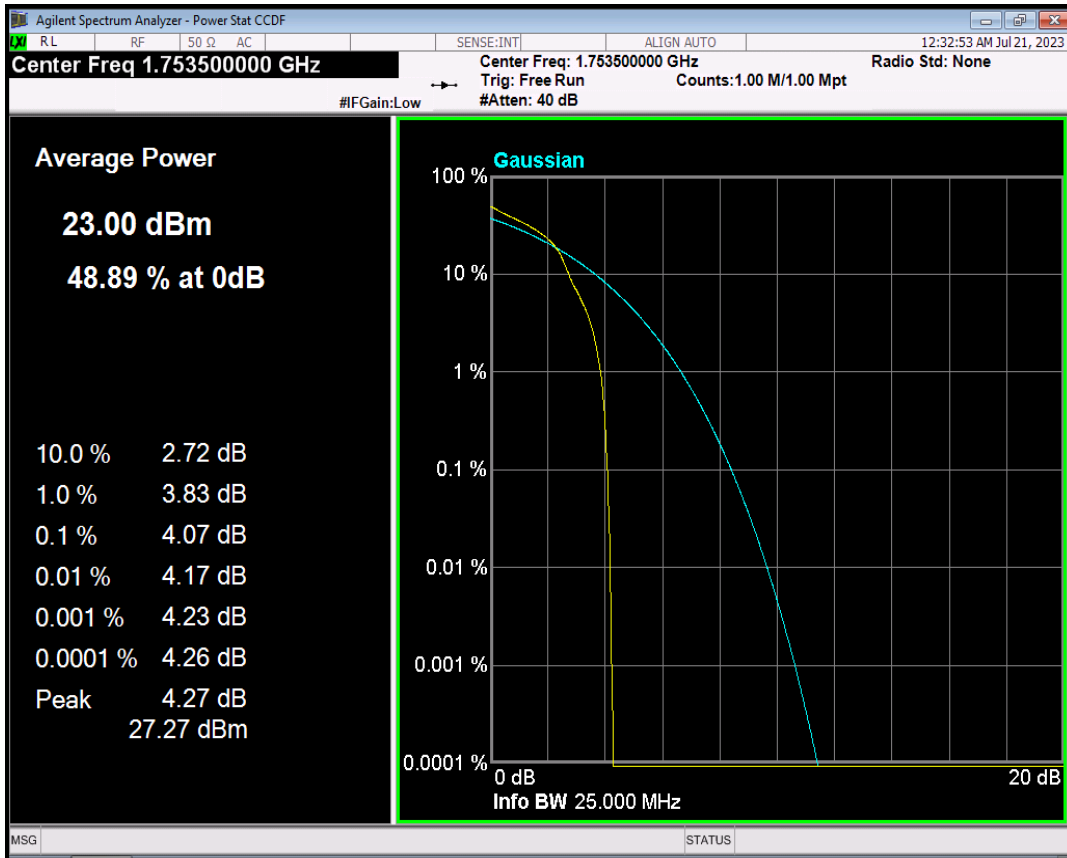


Band4 QPSK BW=3MHz Channel=20385 RB Size=1 Position=#0

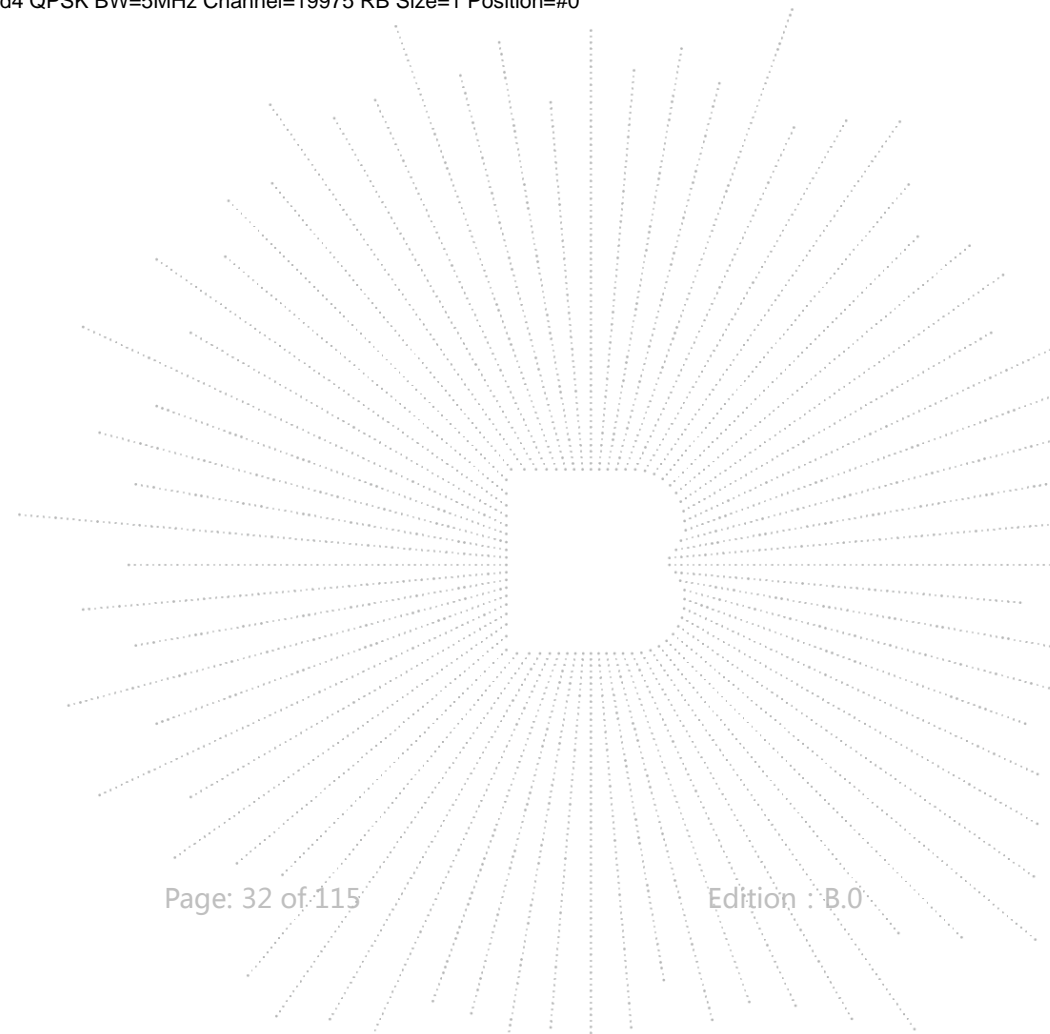




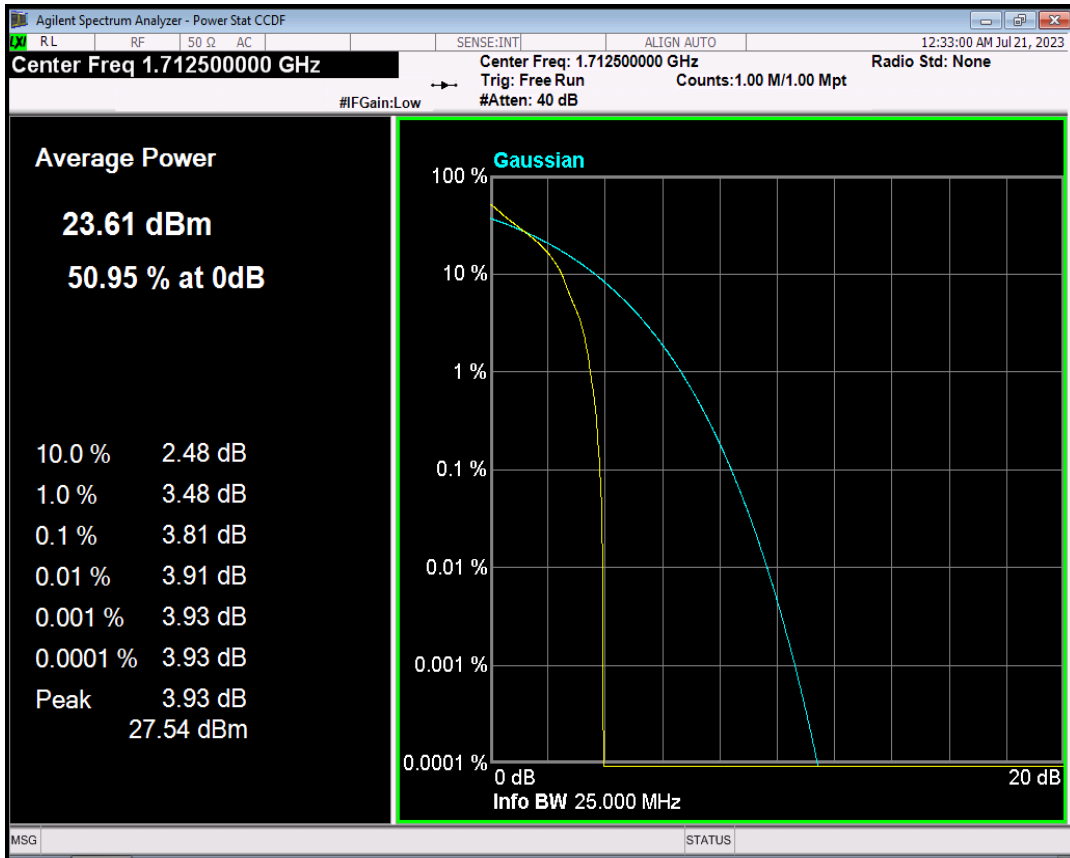
Band4 16QAM BW=3MHz Channel=20385 RB Size=1 Position=#0



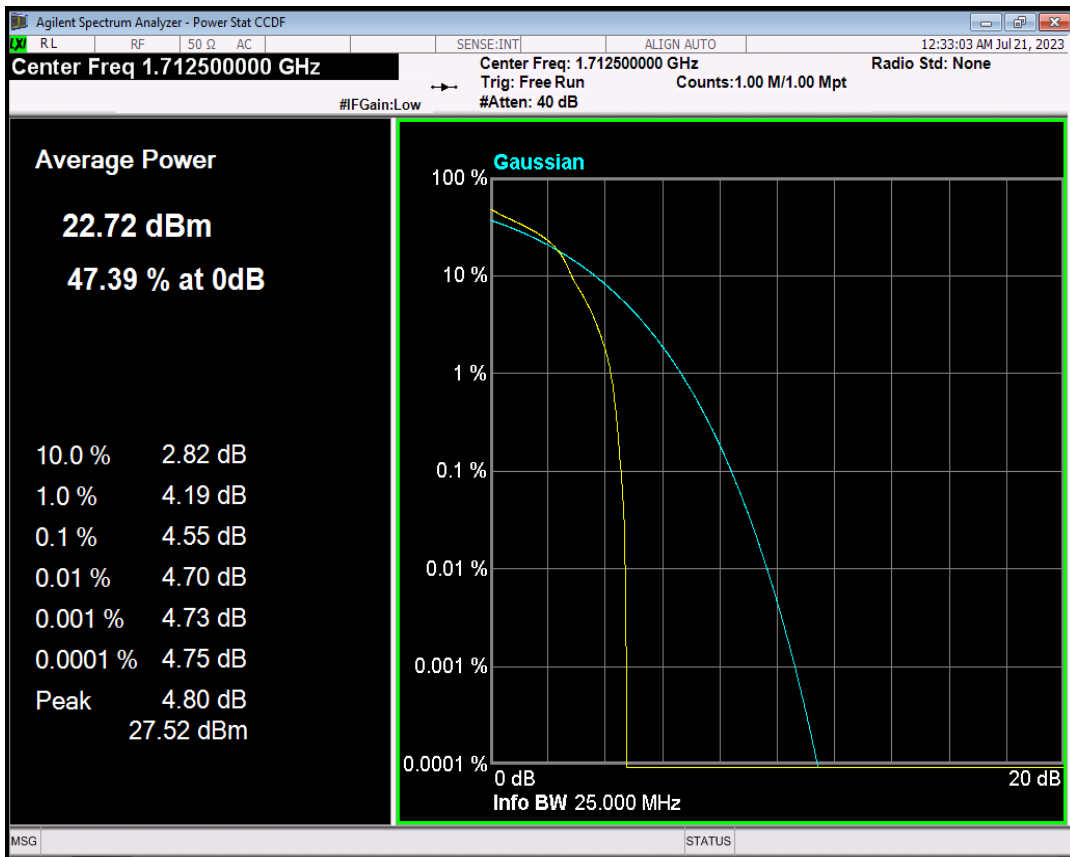
Band4 QPSK BW=5MHz Channel=19975 RB Size=1 Position=#0





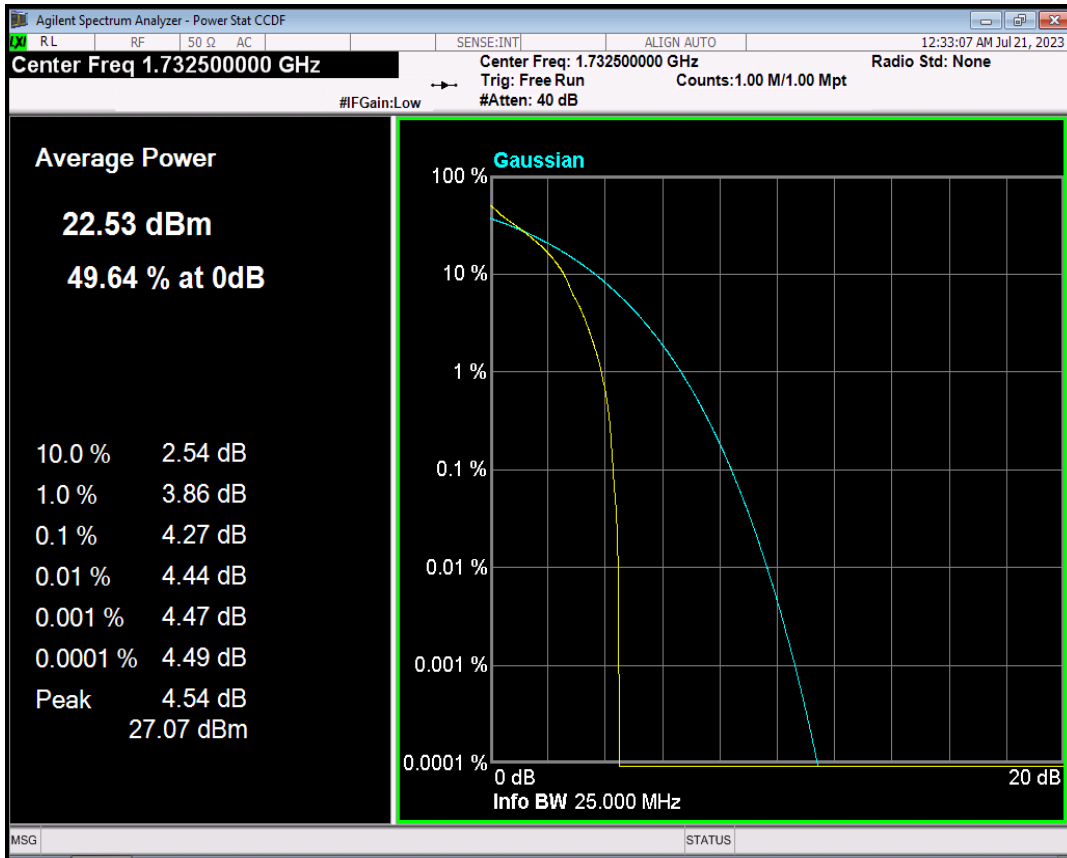


Band4 16QAM BW=5MHz Channel=19975 RB Size=1 Position=#0

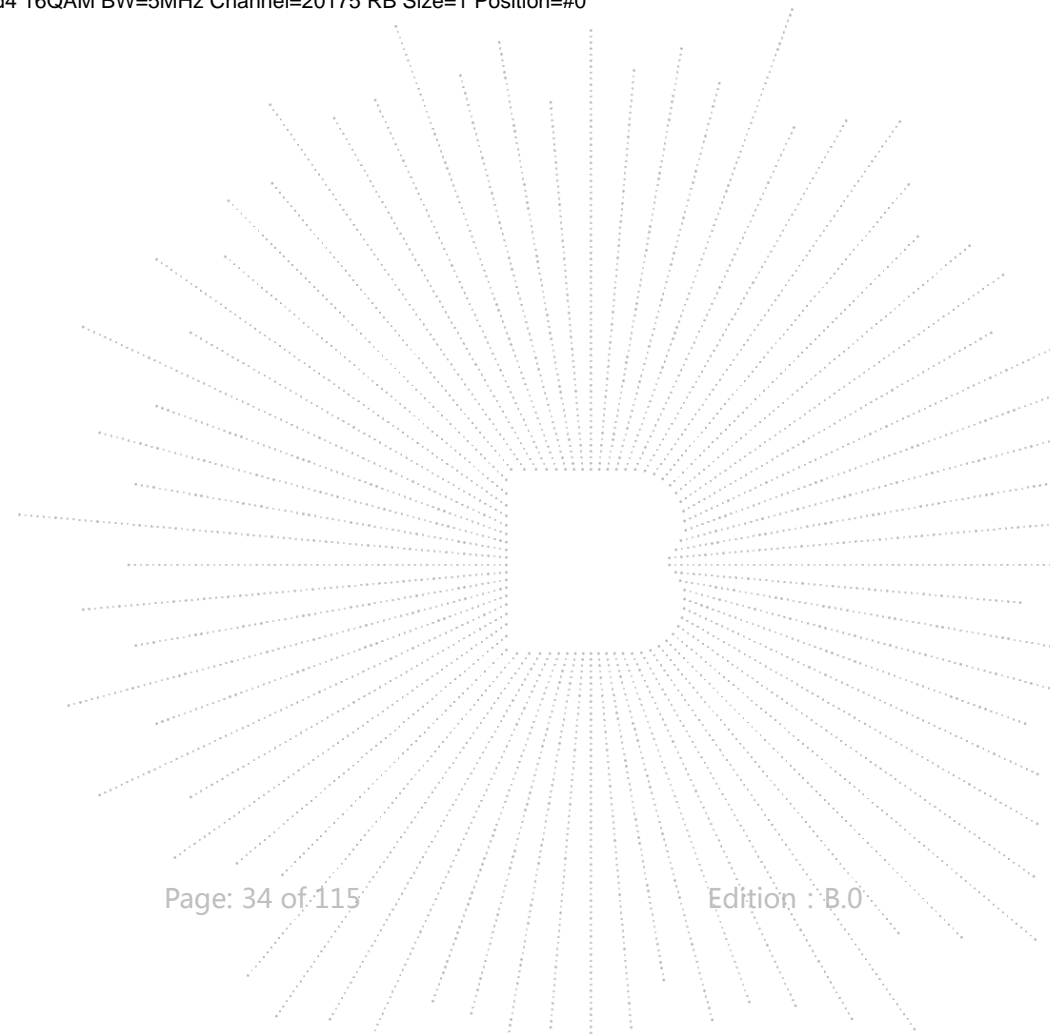


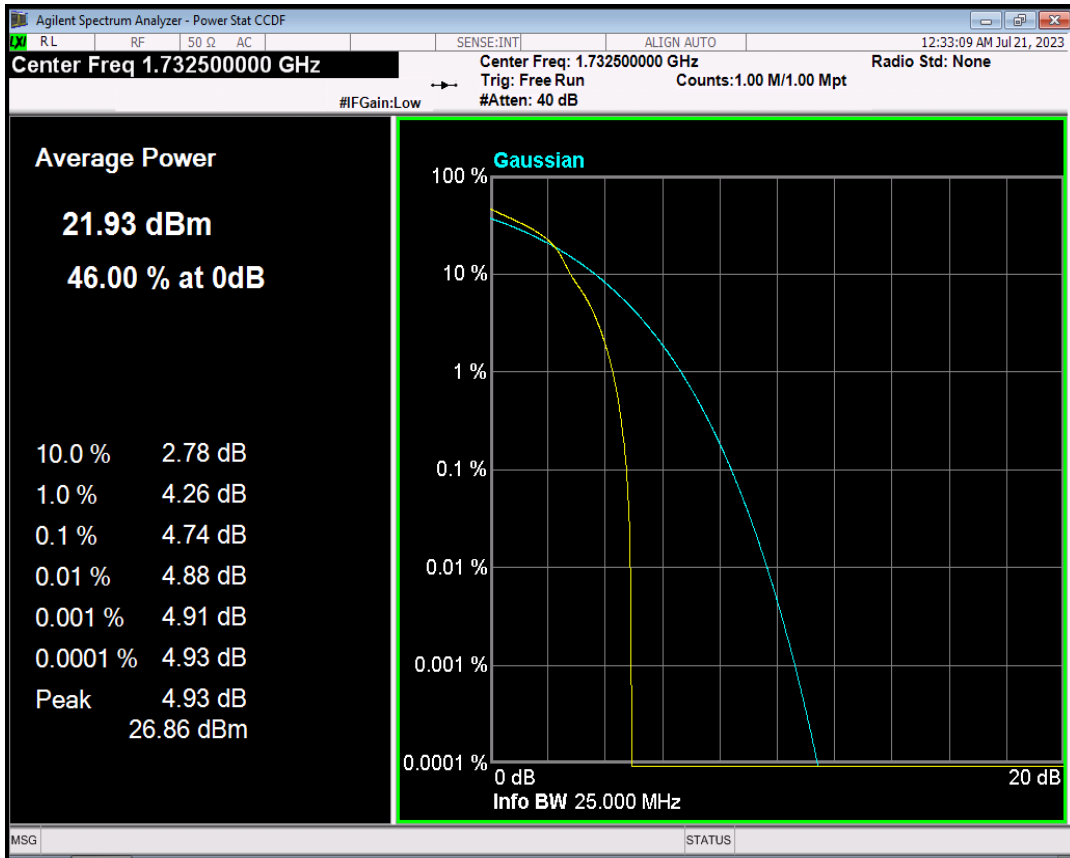


Band4 QPSK BW=5MHz Channel=20175 RB Size=1 Position=#0

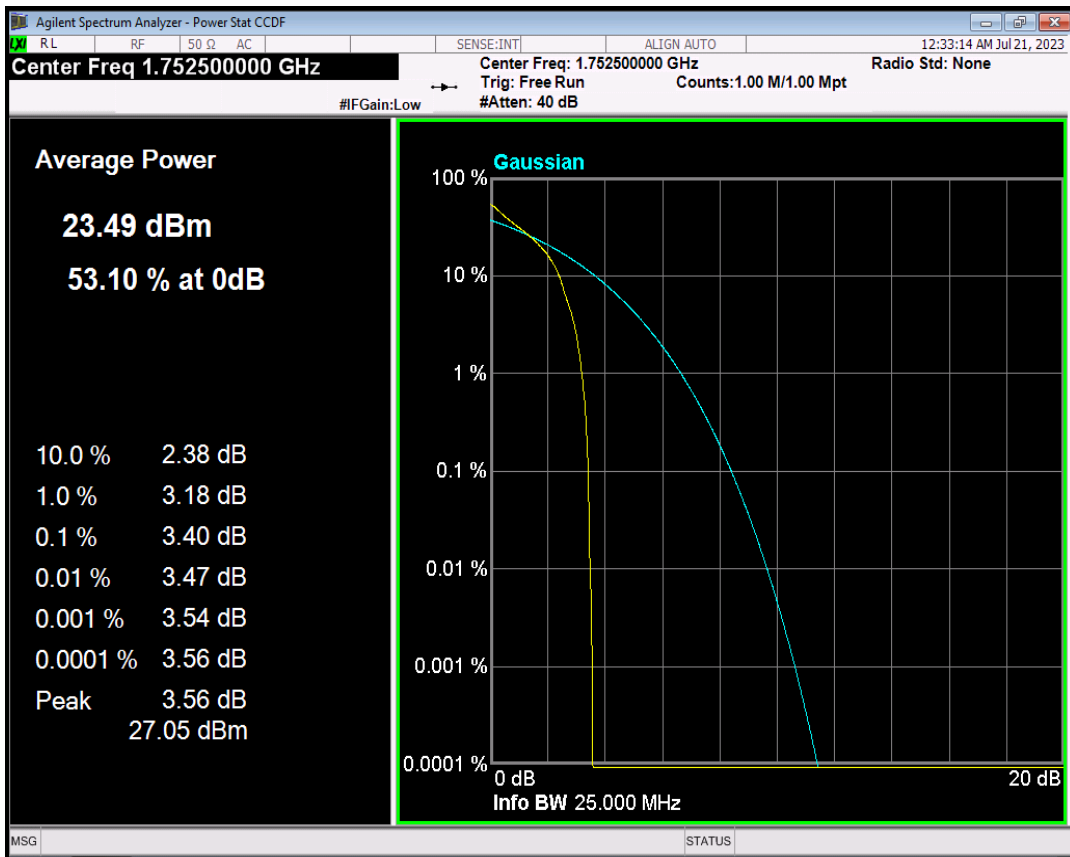


Band4 16QAM BW=5MHz Channel=20175 RB Size=1 Position=#0

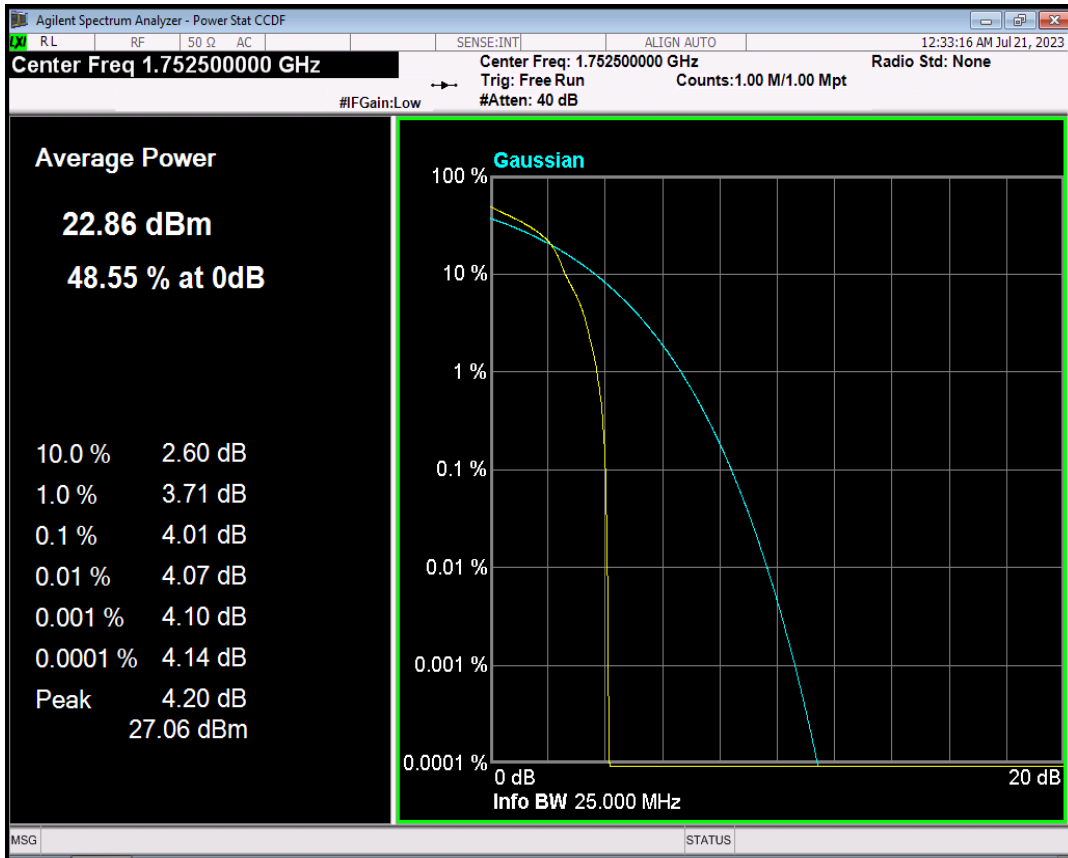




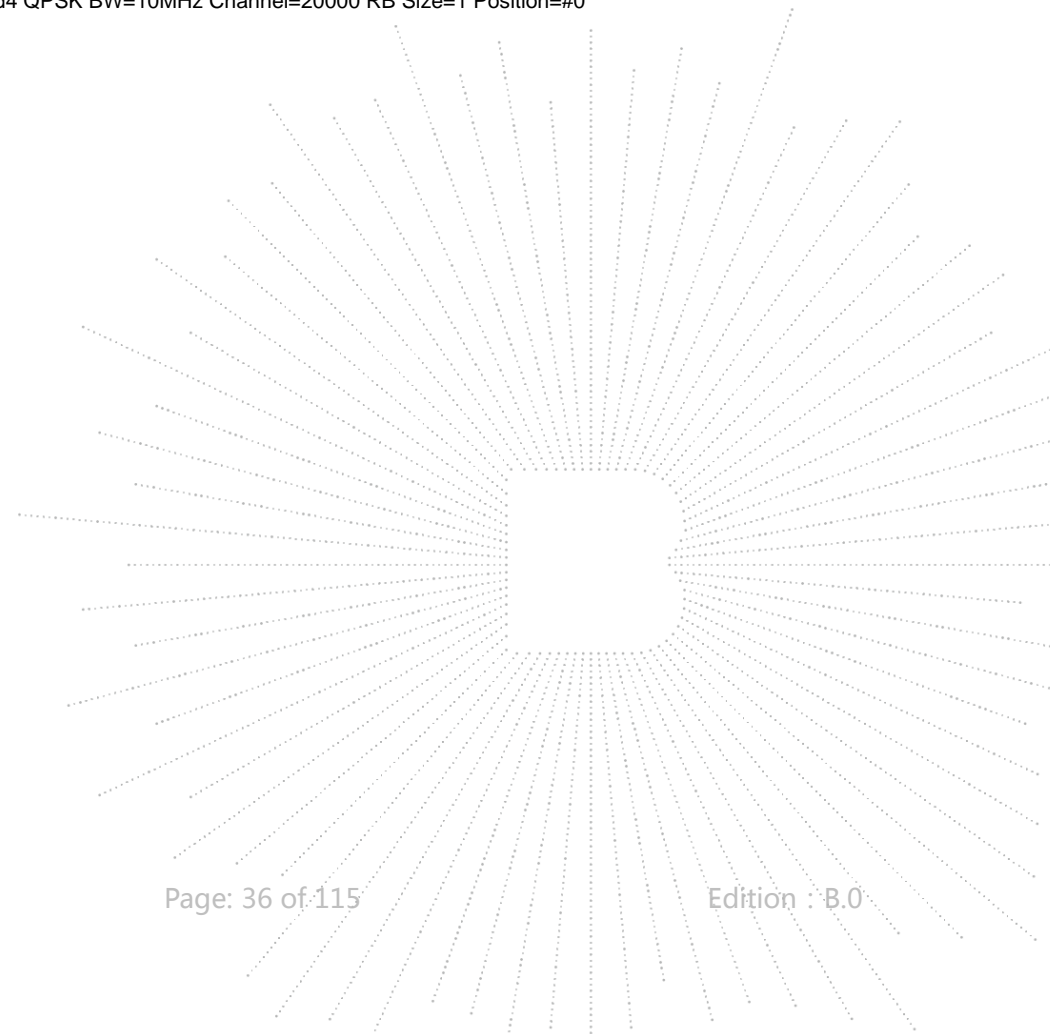
Band4 QPSK BW=5MHz Channel=20375 RB Size=1 Position=#0

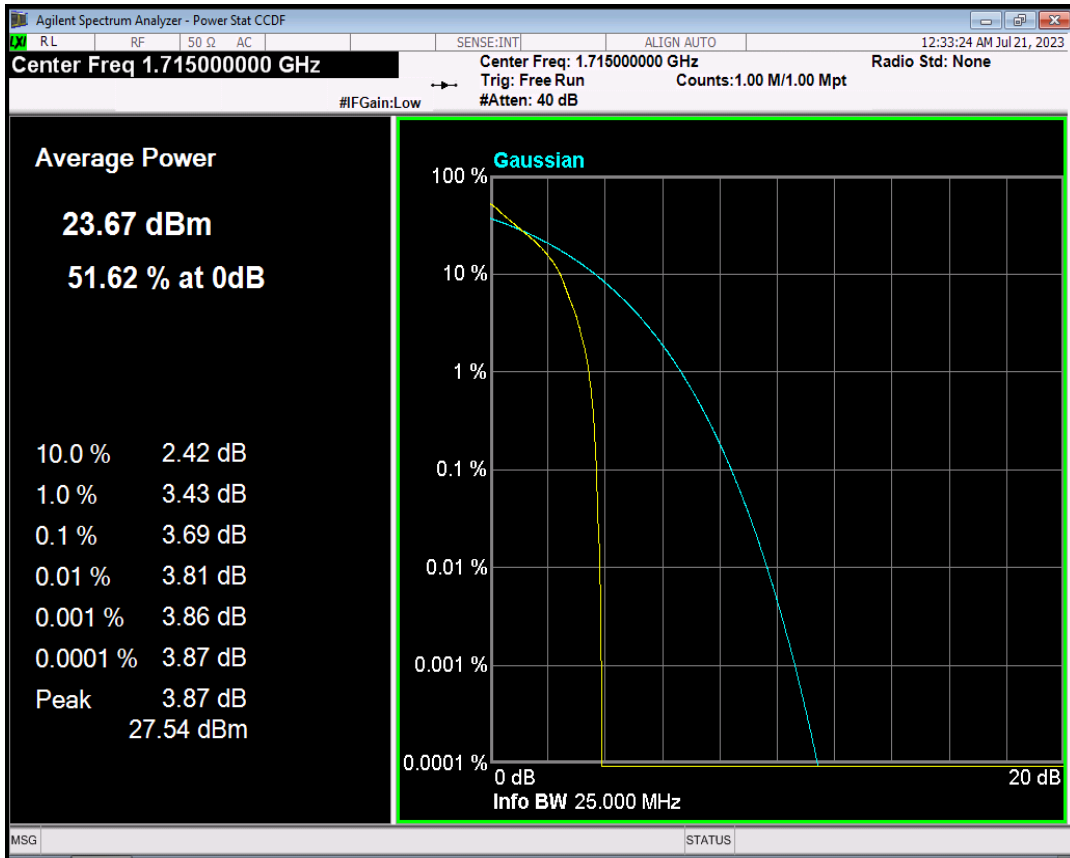


Band4 16QAM BW=5MHz Channel=20375 RB Size=1 Position=#0

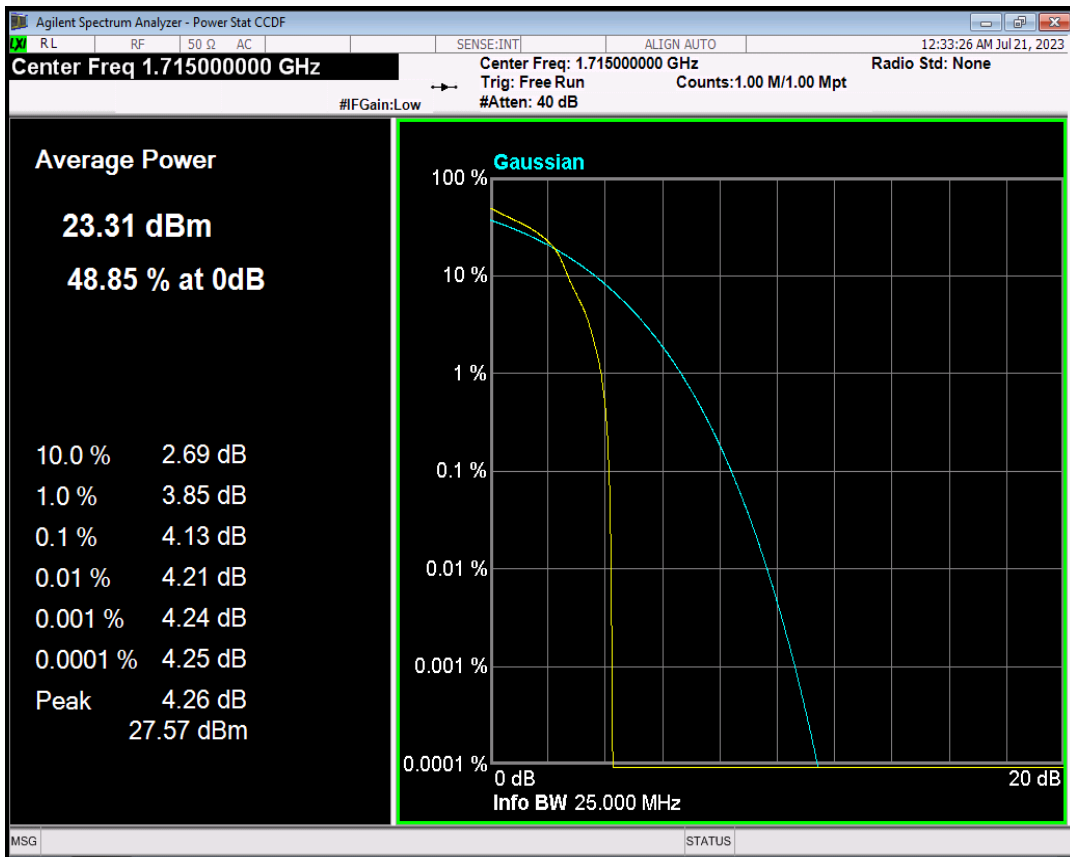


Band4 QPSK BW=10MHz Channel=20000 RB Size=1 Position=#0



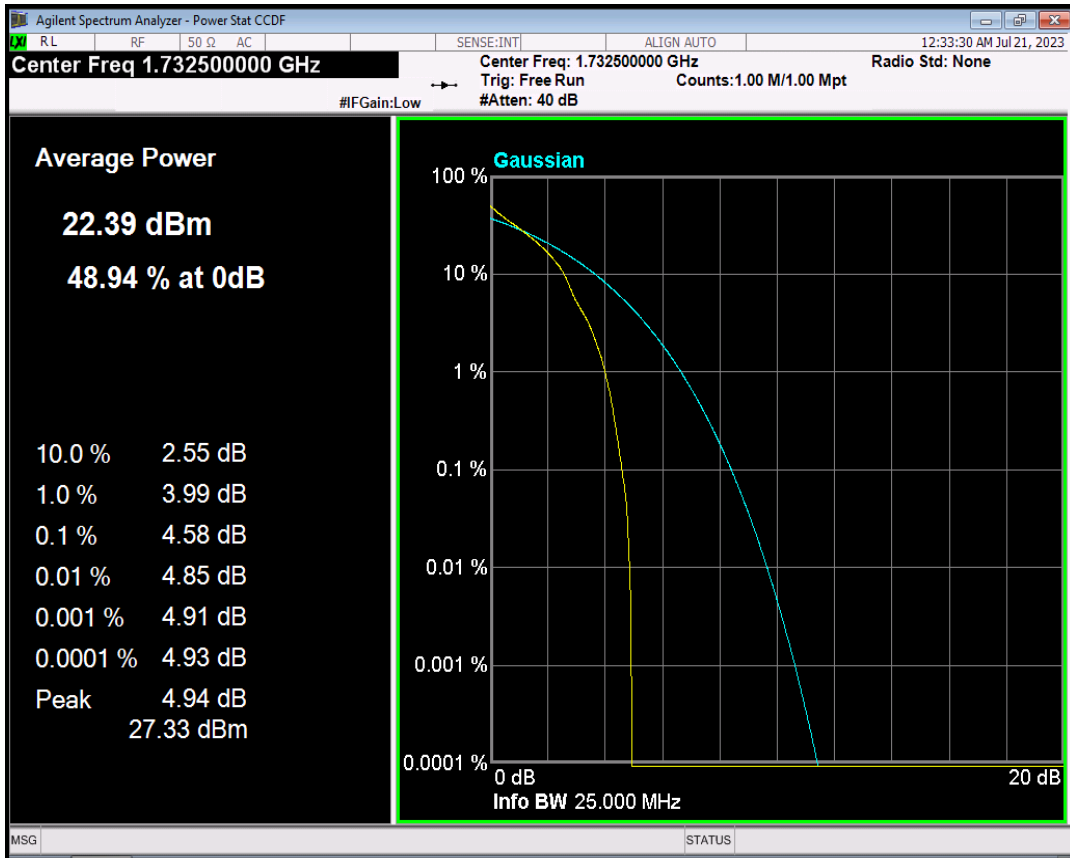


Band4 16QAM BW=10MHz Channel=20000 RB Size=1 Position=#0

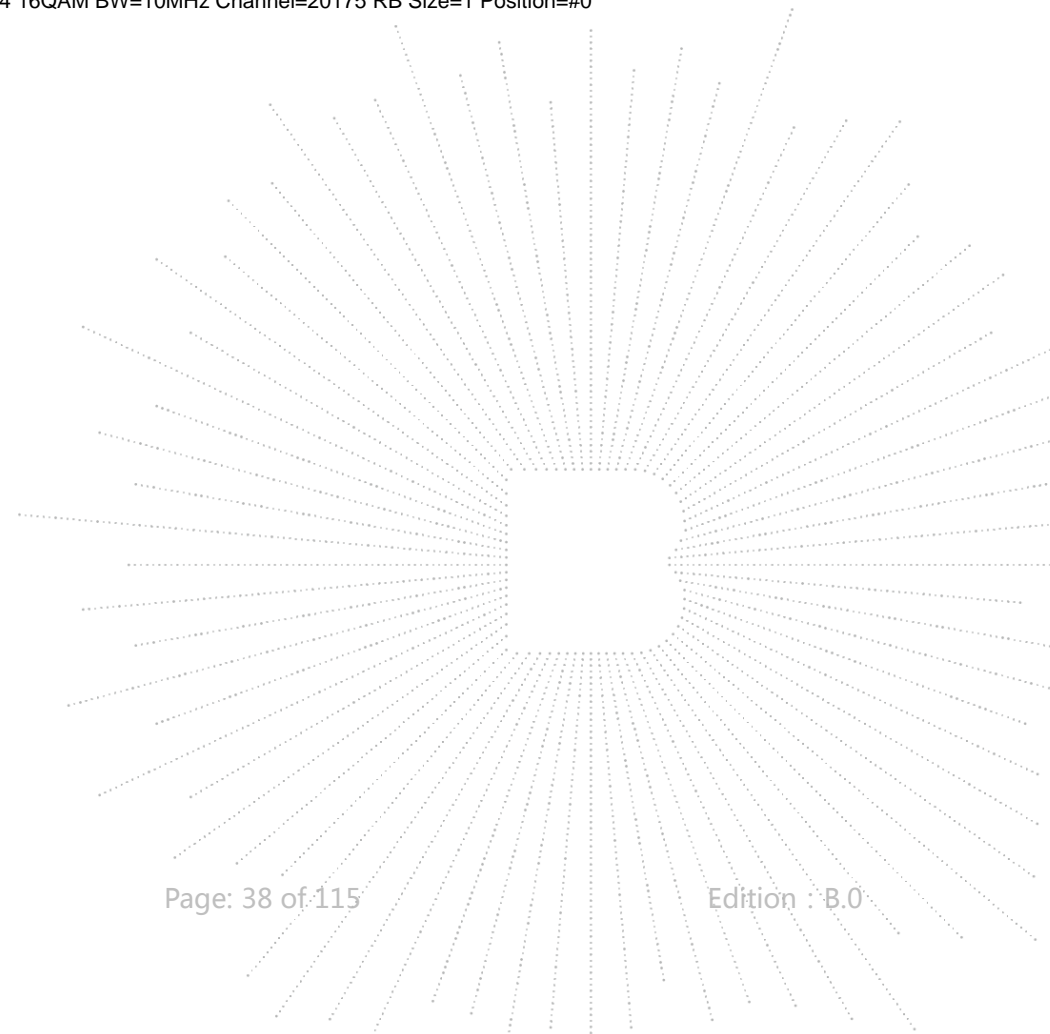


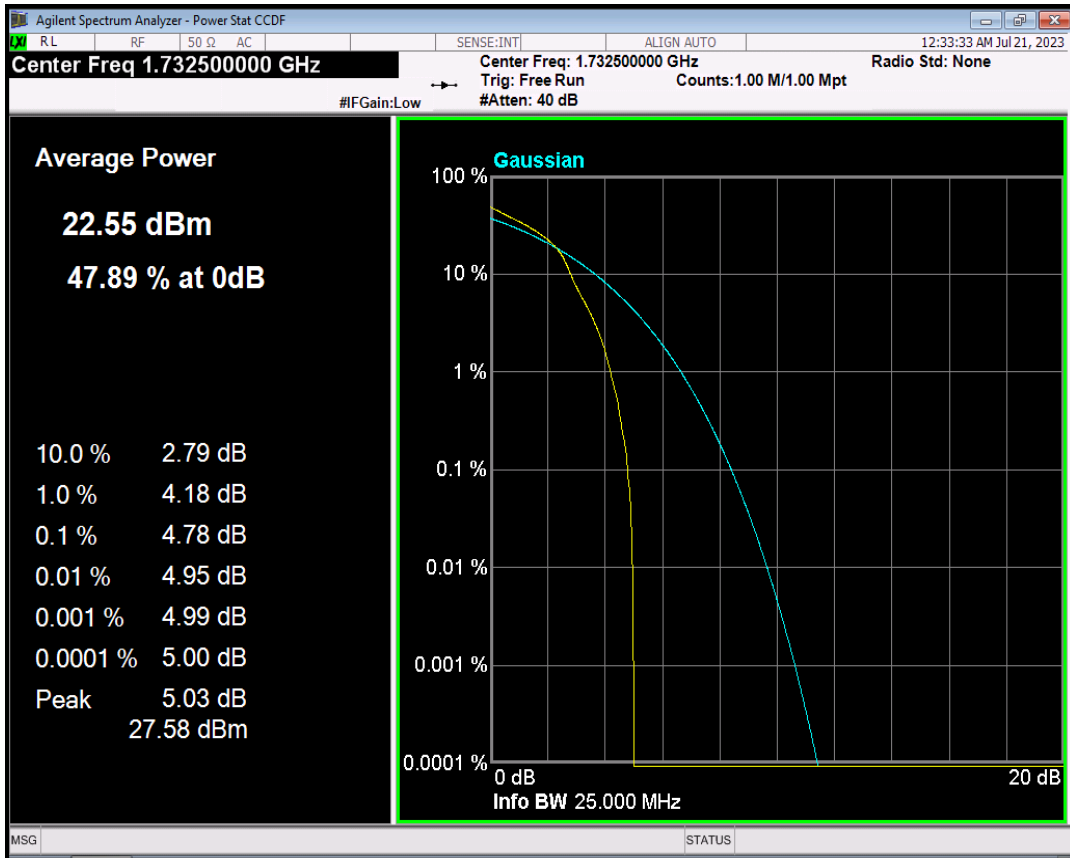


Band4 QPSK BW=10MHz Channel=20175 RB Size=1 Position=#0

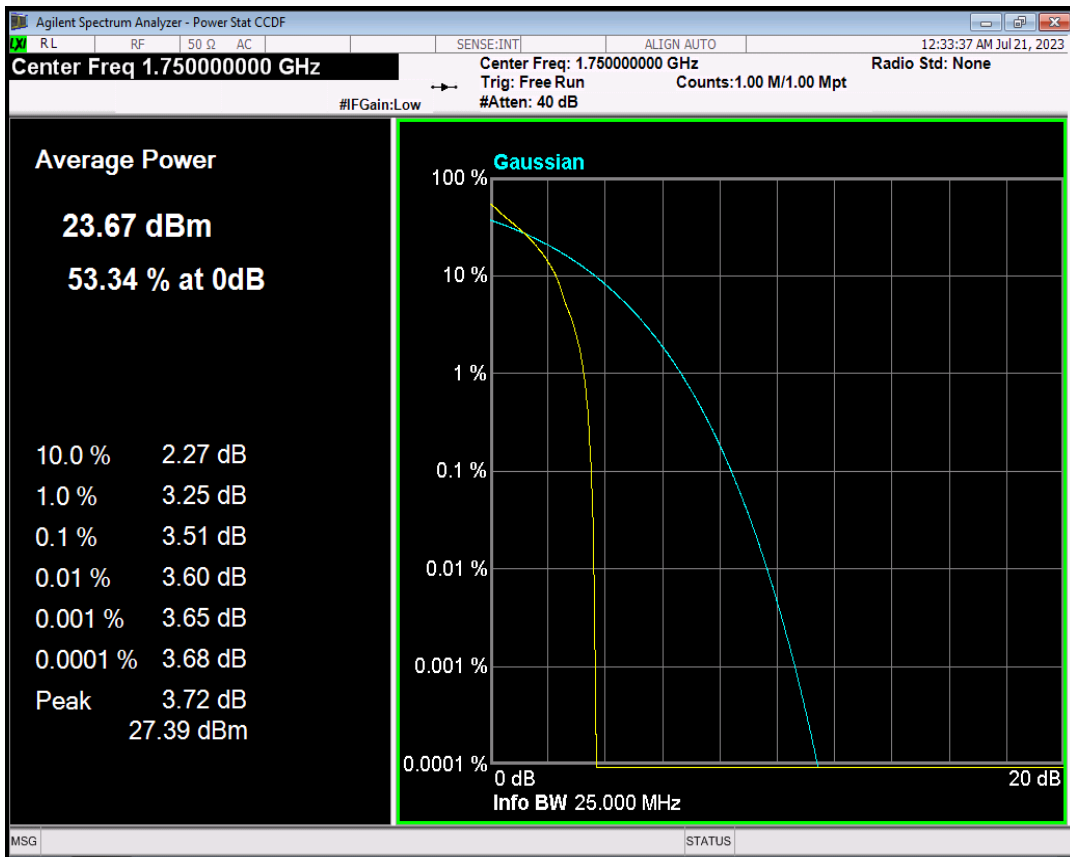


Band4 16QAM BW=10MHz Channel=20175 RB Size=1 Position=#0



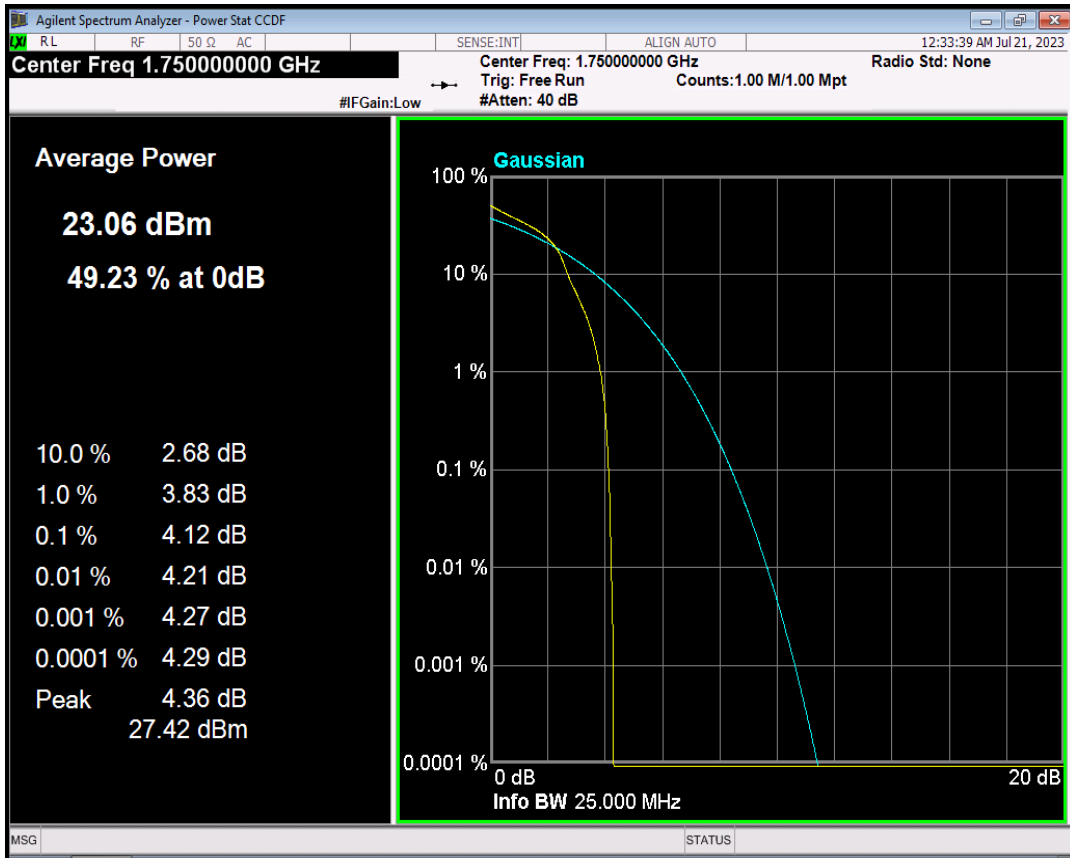


Band4 QPSK BW=10MHz Channel=20350 RB Size=1 Position=#0

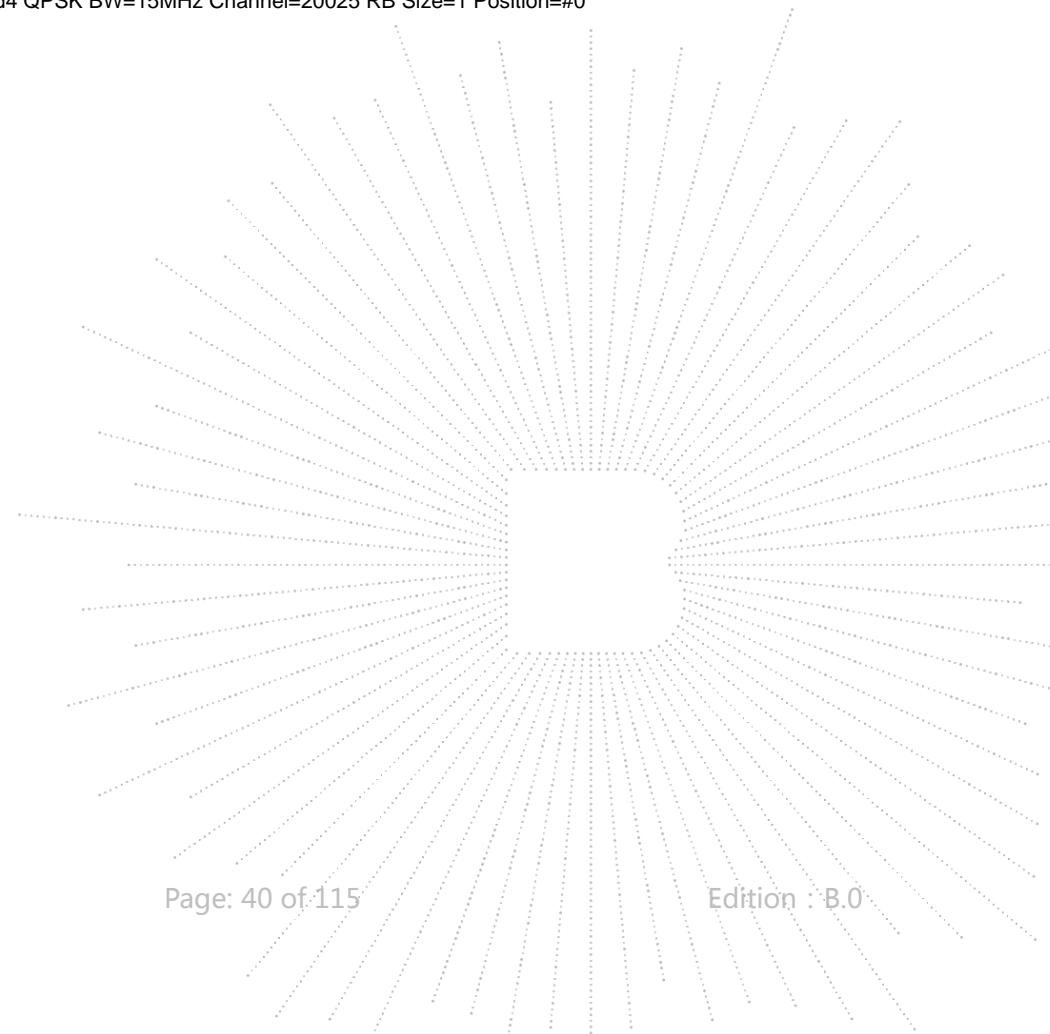




Band4 16QAM BW=10MHz Channel=20350 RB Size=1 Position=#0



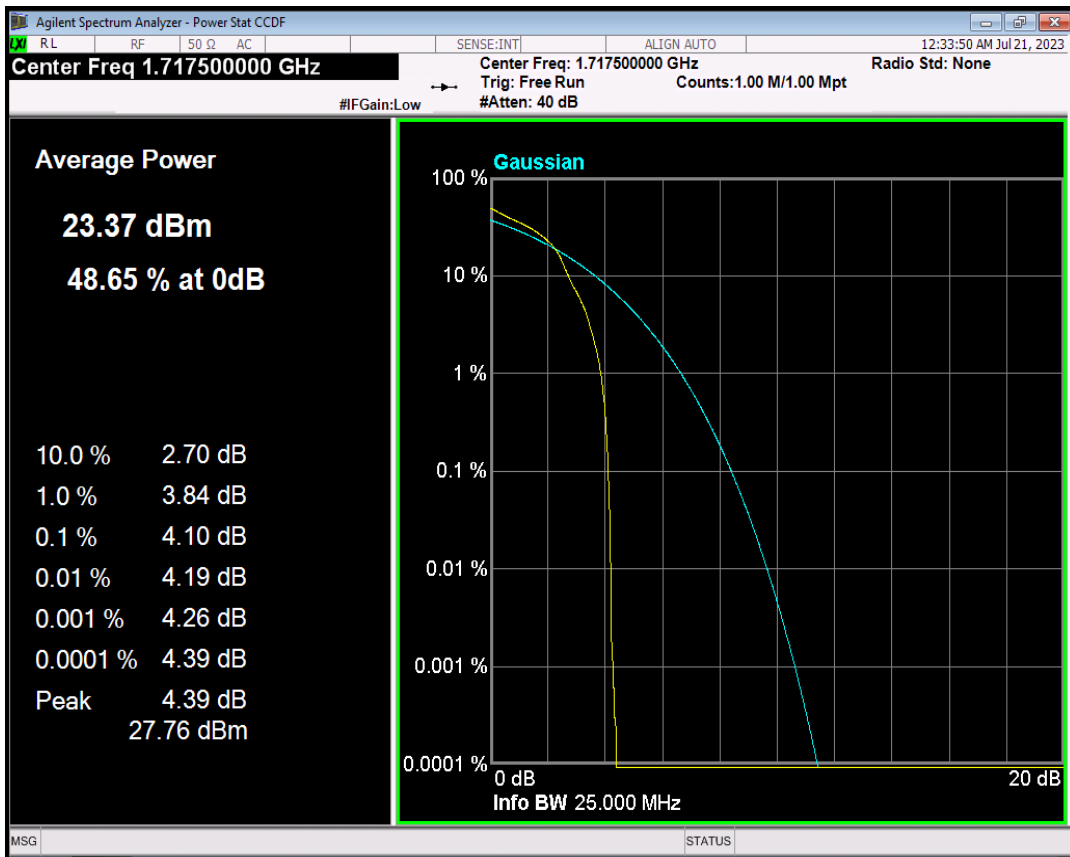
Band4 QPSK BW=15MHz Channel=20025 RB Size=1 Position=#0





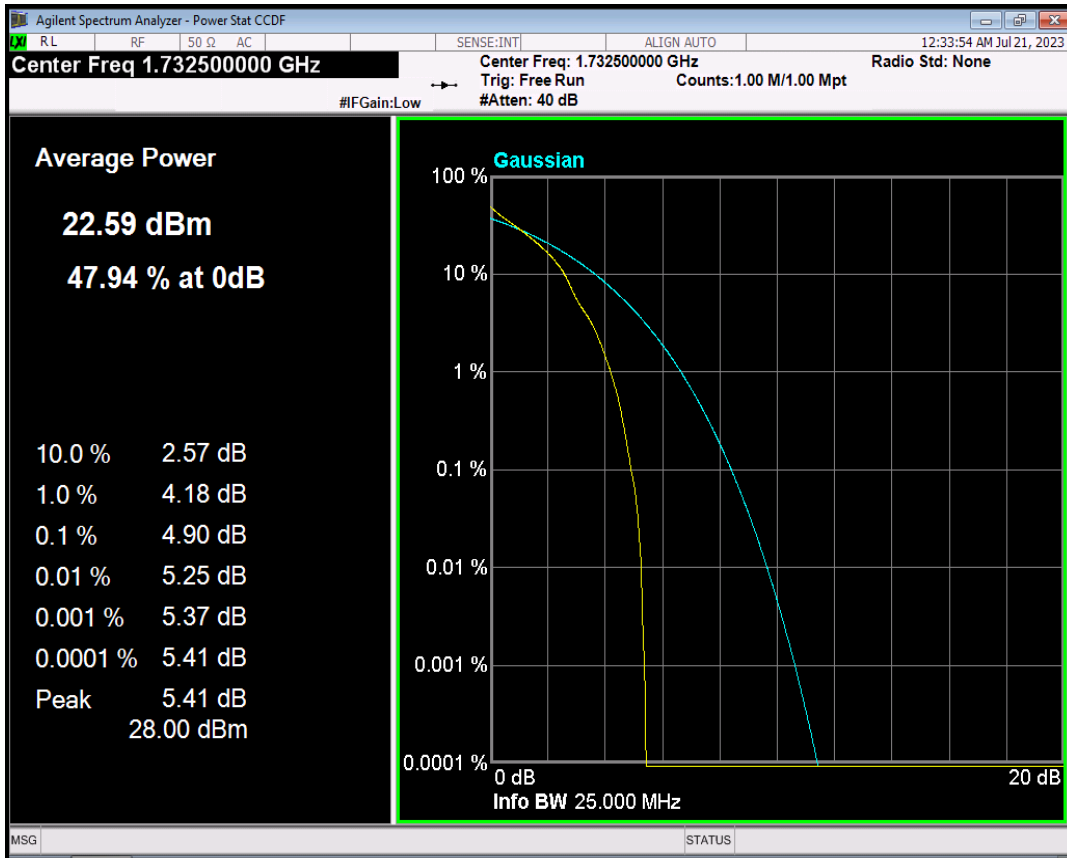


Band4 16QAM BW=15MHz Channel=20025 RB Size=1 Position=#0

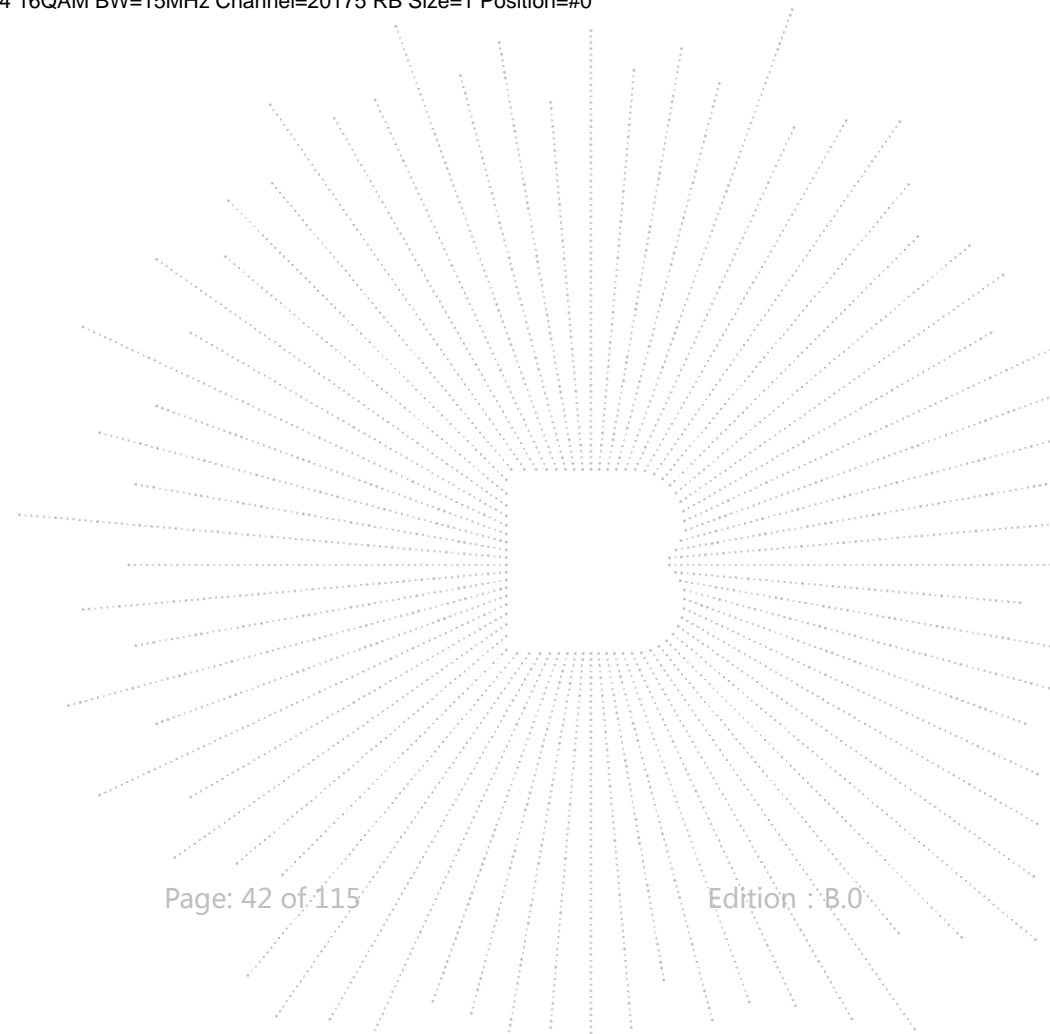


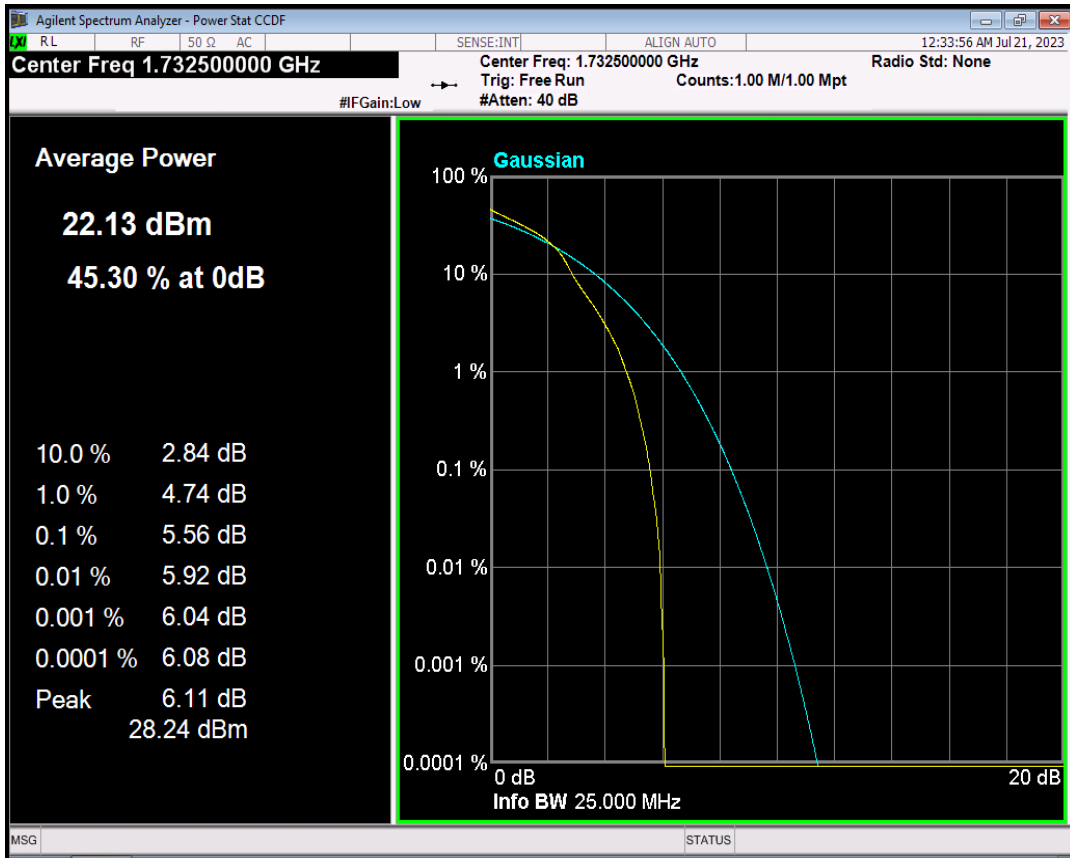


Band4 QPSK BW=15MHz Channel=20175 RB Size=1 Position=#0

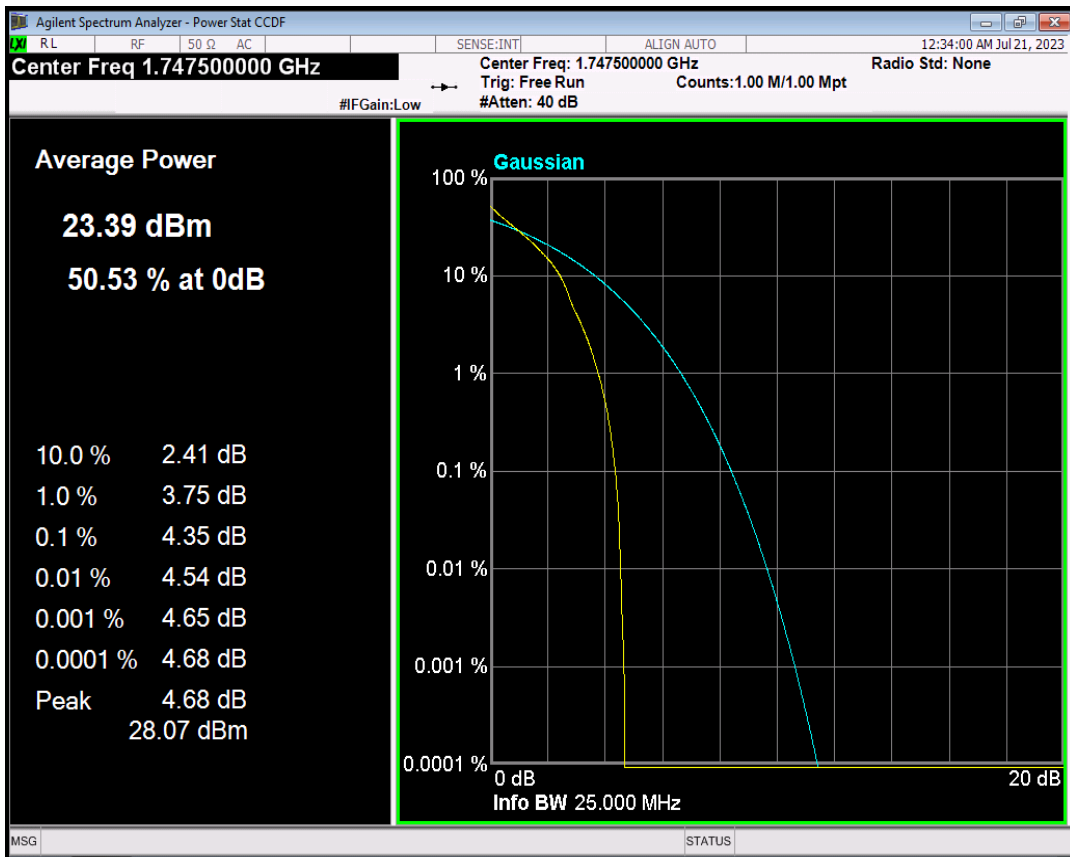


Band4 16QAM BW=15MHz Channel=20175 RB Size=1 Position=#0



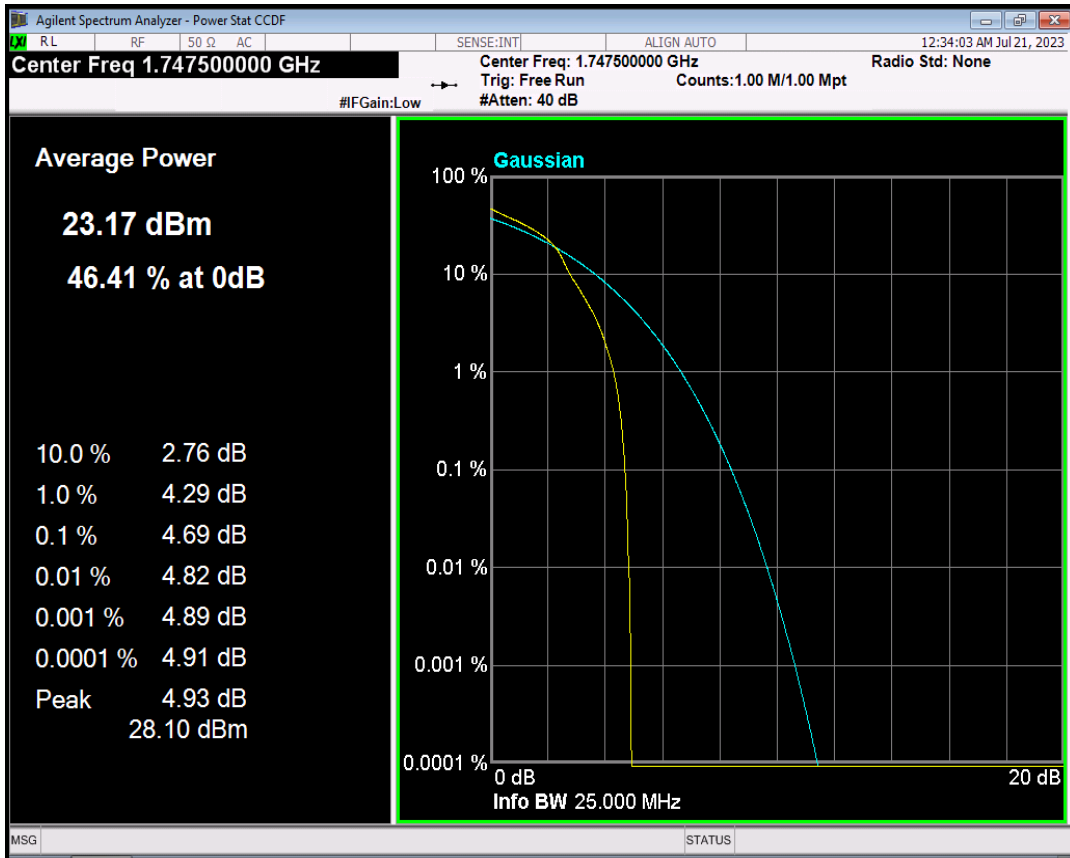


Band4 QPSK BW=15MHz Channel=20325 RB Size=1 Position=#0

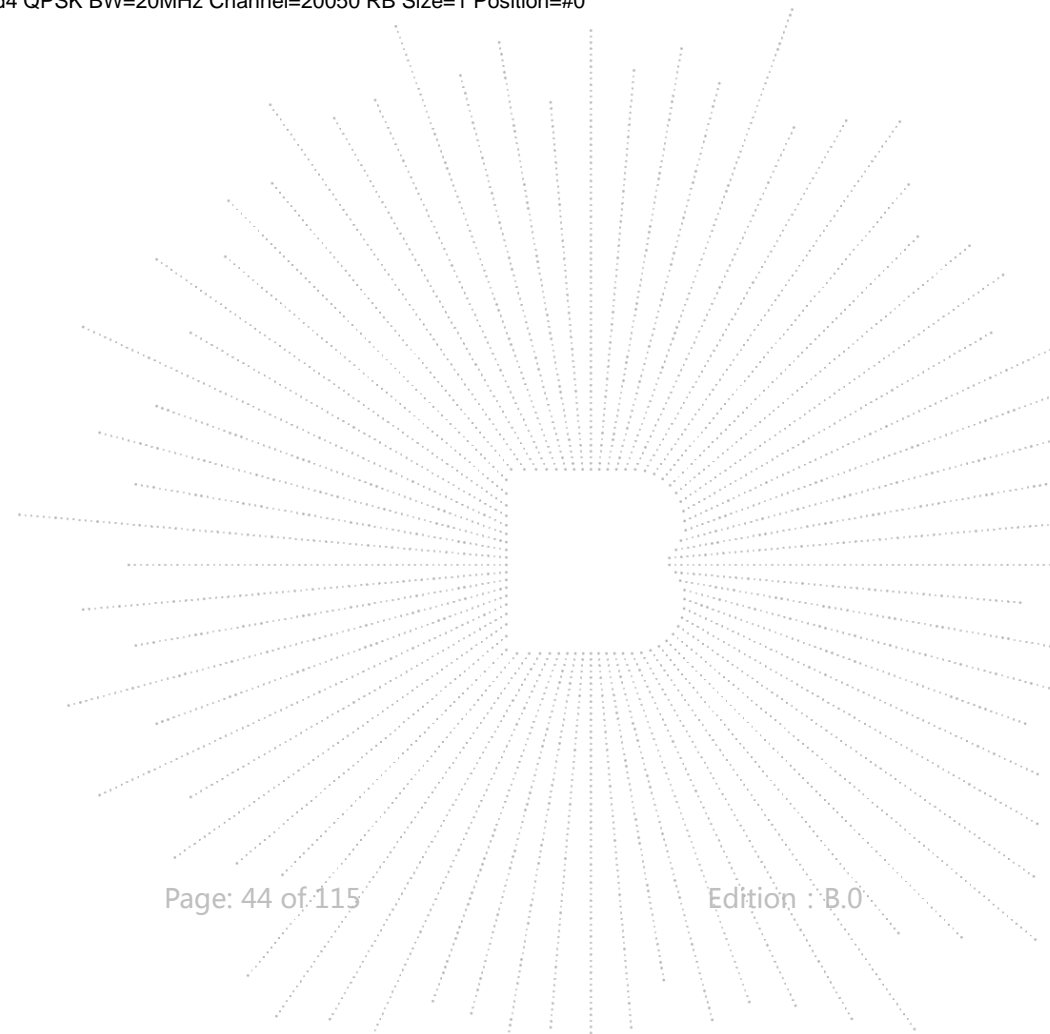


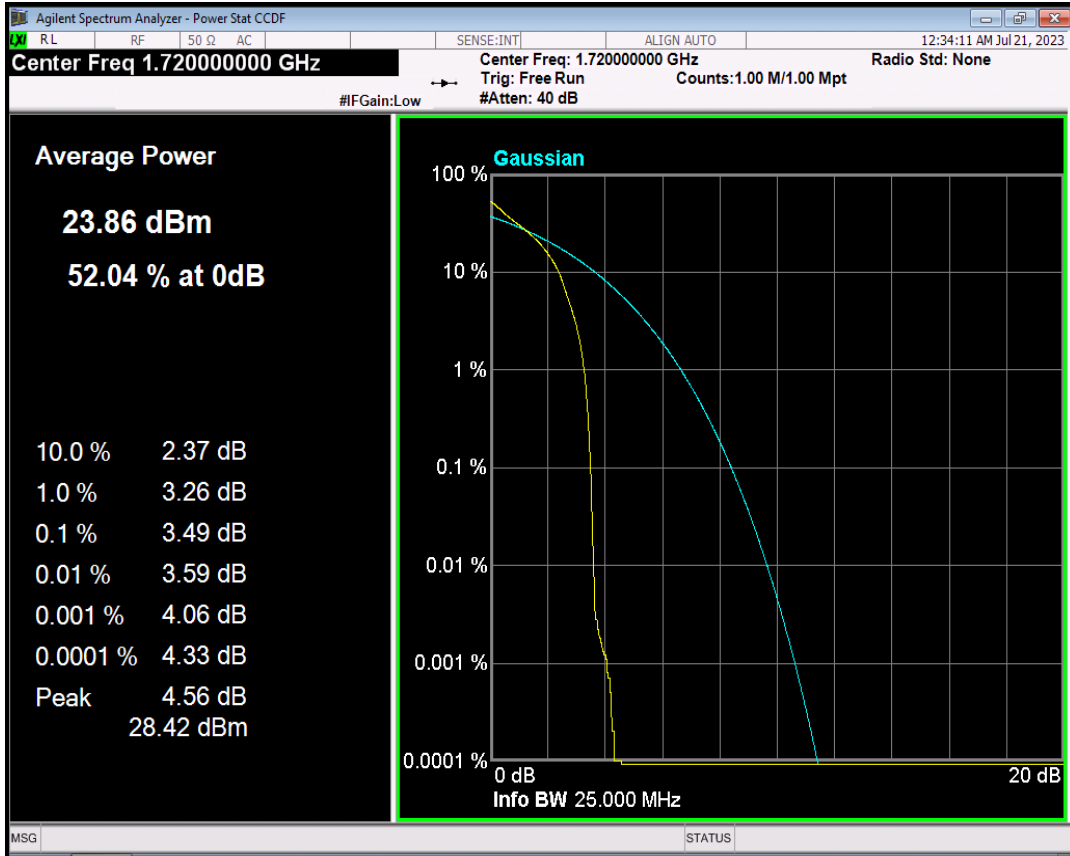


Band4 16QAM BW=15MHz Channel=20325 RB Size=1 Position=#0

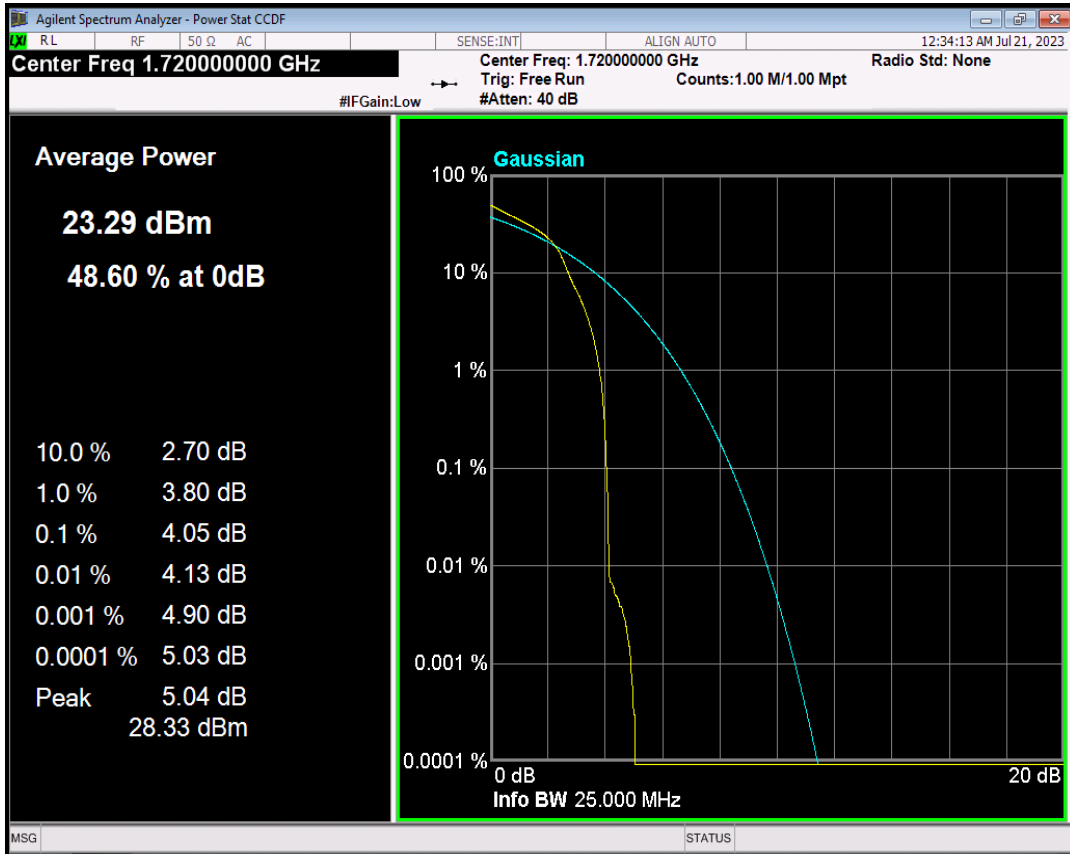


Band4 QPSK BW=20MHz Channel=20050 RB Size=1 Position=#0

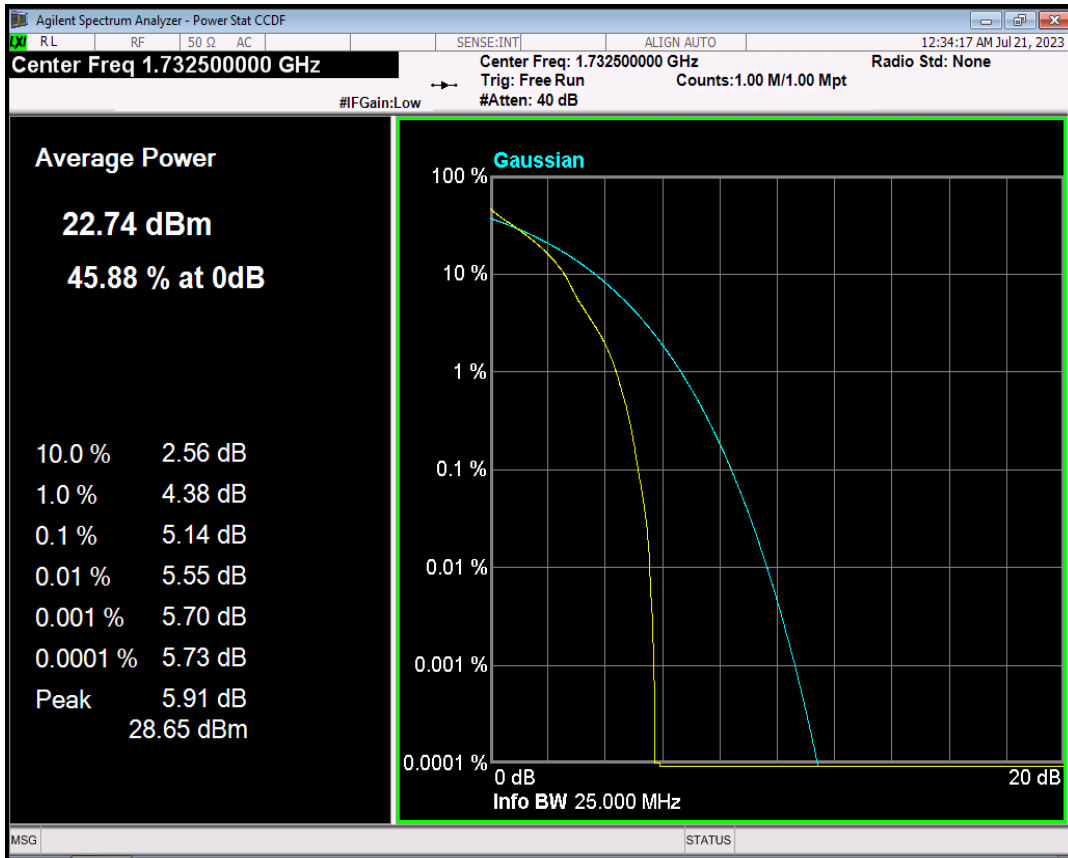




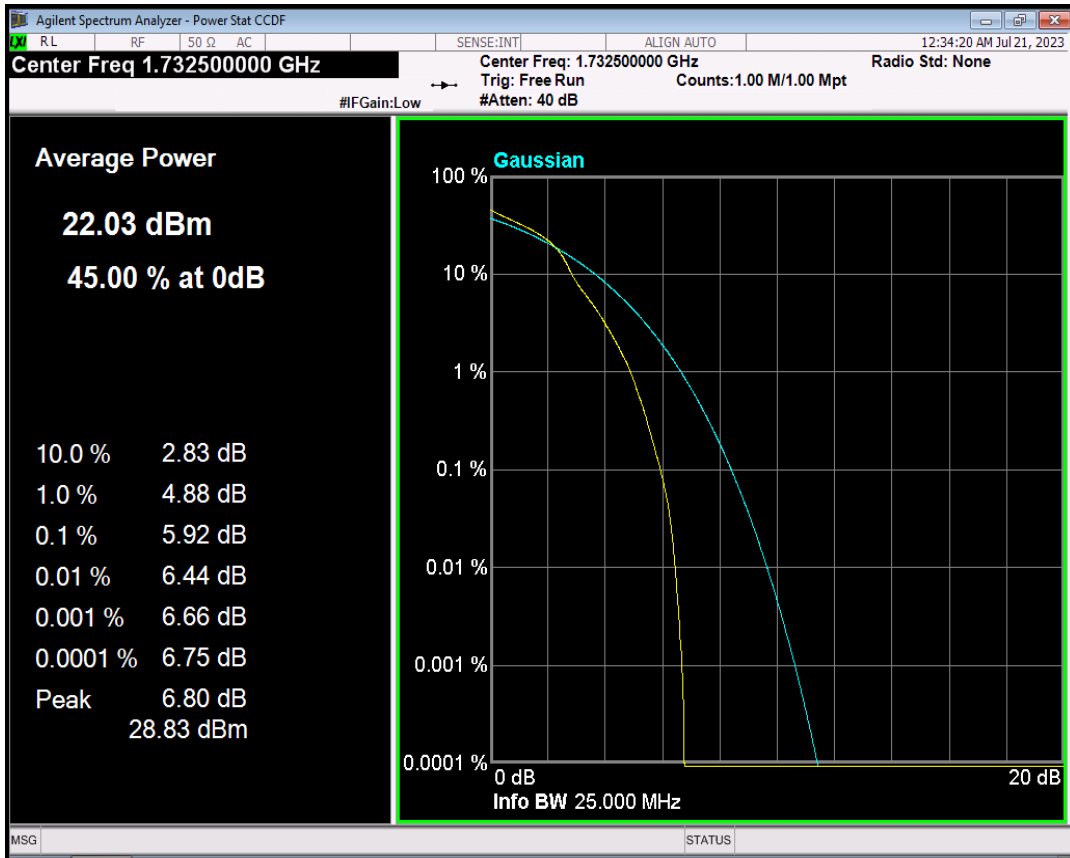
Band4 16QAM BW=20MHz Channel=20050 RB Size=1 Position=#0



Band4 QPSK BW=20MHz Channel=20175 RB Size=1 Position=#0



Band4 16QAM BW=20MHz Channel=20175 RB Size=1 Position=#0



Band4 QPSK BW=20MHz Channel=20300 RB Size=1 Position=#0

