

# TEST REPORT

Report No.: BCTC2209694979-2E

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Applicant: Telecell Mobile (H.K) Ltd.

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Product Name: LTE Flip Phone

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Model/Type  
reference: T2

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Tested Date: 2022-09-13 to 2022-09-15

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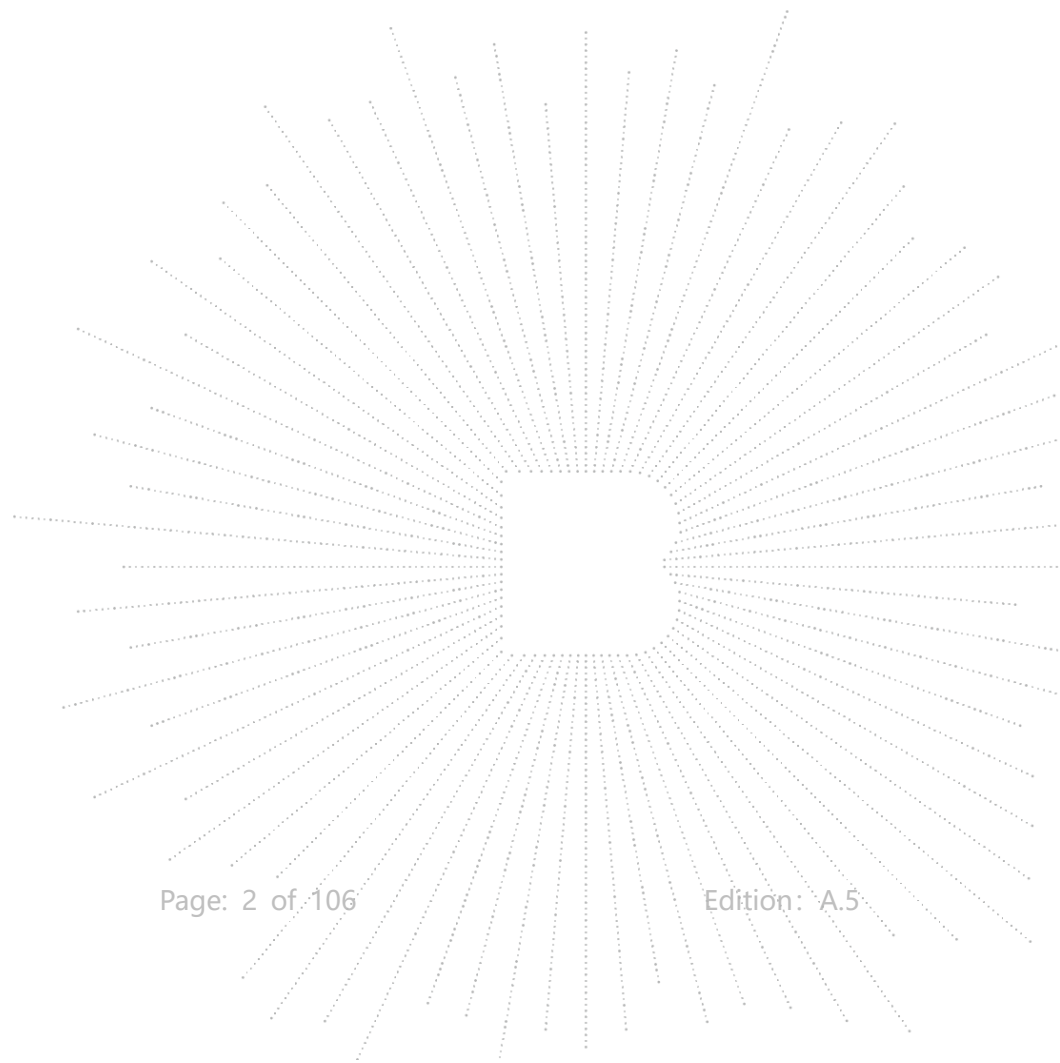
Issued Date: 2022-09-15

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

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## Appendix 1. Conducted output power

| Band  | Bandwidth<br>(MHz) | UL<br>Channel | RB<br>Size | RB<br>Position | Modulation | Power<br>(dBm) | Gain<br>(dBm) | EIRP<br>(dBm) | Verdict |
|-------|--------------------|---------------|------------|----------------|------------|----------------|---------------|---------------|---------|
| Band4 | 1.4                | 19957         | 1          | #0             | QPSK       | 22.31          | 1             | 23.31         | PASS    |
| Band4 | 1.4                | 19957         | 1          | #Mid           | QPSK       | 22.34          | 1             | 23.34         | PASS    |
| Band4 | 1.4                | 19957         | 1          | #Max           | QPSK       | 22.37          | 1             | 23.37         | PASS    |
| Band4 | 1.4                | 19957         | 3          | #0             | QPSK       | 22.25          | 1             | 23.25         | PASS    |
| Band4 | 1.4                | 19957         | 3          | #Mid           | QPSK       | 22.31          | 1             | 23.31         | PASS    |
| Band4 | 1.4                | 19957         | 3          | #Max           | QPSK       | 22.32          | 1             | 23.32         | PASS    |
| Band4 | 1.4                | 19957         | 6          | #0             | QPSK       | 21.29          | 1             | 22.29         | PASS    |
| Band4 | 1.4                | 19957         | 1          | #0             | QAM16      | 22.09          | 1             | 23.09         | PASS    |
| Band4 | 1.4                | 19957         | 1          | #Mid           | QAM16      | 22.11          | 1             | 23.11         | PASS    |
| Band4 | 1.4                | 19957         | 1          | #Max           | QAM16      | 22.15          | 1             | 23.15         | PASS    |
| Band4 | 1.4                | 19957         | 3          | #0             | QAM16      | 21.52          | 1             | 22.52         | PASS    |
| Band4 | 1.4                | 19957         | 3          | #Mid           | QAM16      | 21.52          | 1             | 22.52         | PASS    |
| Band4 | 1.4                | 19957         | 3          | #Max           | QAM16      | 21.51          | 1             | 22.51         | PASS    |
| Band4 | 1.4                | 19957         | 6          | #0             | QAM16      | 20.31          | 1             | 21.31         | PASS    |
| Band4 | 1.4                | 20175         | 1          | #0             | QPSK       | 22.10          | 1             | 23.10         | PASS    |
| Band4 | 1.4                | 20175         | 1          | #Mid           | QPSK       | 22.19          | 1             | 23.19         | PASS    |
| Band4 | 1.4                | 20175         | 1          | #Max           | QPSK       | 22.09          | 1             | 23.09         | PASS    |
| Band4 | 1.4                | 20175         | 3          | #0             | QPSK       | 22.14          | 1             | 23.14         | PASS    |
| Band4 | 1.4                | 20175         | 3          | #Mid           | QPSK       | 22.21          | 1             | 23.21         | PASS    |
| Band4 | 1.4                | 20175         | 3          | #Max           | QPSK       | 22.18          | 1             | 23.18         | PASS    |
| Band4 | 1.4                | 20175         | 6          | #0             | QPSK       | 21.14          | 1             | 22.14         | PASS    |
| Band4 | 1.4                | 20175         | 1          | #0             | QAM16      | 21.98          | 1             | 22.98         | PASS    |
| Band4 | 1.4                | 20175         | 1          | #Mid           | QAM16      | 22.07          | 1             | 23.07         | PASS    |
| Band4 | 1.4                | 20175         | 1          | #Max           | QAM16      | 21.96          | 1             | 22.96         | PASS    |
| Band4 | 1.4                | 20175         | 3          | #0             | QAM16      | 21.36          | 1             | 22.36         | PASS    |
| Band4 | 1.4                | 20175         | 3          | #Mid           | QAM16      | 21.35          | 1             | 22.35         | PASS    |
| Band4 | 1.4                | 20175         | 3          | #Max           | QAM16      | 21.41          | 1             | 22.41         | PASS    |
| Band4 | 1.4                | 20175         | 6          | #0             | QAM16      | 20.27          | 1             | 21.27         | PASS    |
| Band4 | 1.4                | 20393         | 1          | #0             | QPSK       | 22.59          | 1             | 23.59         | PASS    |
| Band4 | 1.4                | 20393         | 1          | #Mid           | QPSK       | 22.56          | 1             | 23.56         | PASS    |
| Band4 | 1.4                | 20393         | 1          | #Max           | QPSK       | 22.53          | 1             | 23.53         | PASS    |
| Band4 | 1.4                | 20393         | 3          | #0             | QPSK       | 22.27          | 1             | 23.27         | PASS    |
| Band4 | 1.4                | 20393         | 3          | #Mid           | QPSK       | 22.30          | 1             | 23.30         | PASS    |
| Band4 | 1.4                | 20393         | 3          | #Max           | QPSK       | 22.26          | 1             | 23.26         | PASS    |
| Band4 | 1.4                | 20393         | 6          | #0             | QPSK       | 21.35          | 1             | 22.35         | PASS    |
| Band4 | 1.4                | 20393         | 1          | #0             | QAM16      | 21.61          | 1             | 22.61         | PASS    |
| Band4 | 1.4                | 20393         | 1          | #Mid           | QAM16      | 21.56          | 1             | 22.56         | PASS    |

|       |     |       |    |      |       |       |   |       |      |
|-------|-----|-------|----|------|-------|-------|---|-------|------|
| Band4 | 1.4 | 20393 | 1  | #Max | QAM16 | 21.66 | 1 | 22.66 | PASS |
| Band4 | 1.4 | 20393 | 3  | #0   | QAM16 | 21.64 | 1 | 22.64 | PASS |
| Band4 | 1.4 | 20393 | 3  | #Mid | QAM16 | 21.60 | 1 | 22.60 | PASS |
| Band4 | 1.4 | 20393 | 3  | #Max | QAM16 | 21.56 | 1 | 22.56 | PASS |
| Band4 | 1.4 | 20393 | 6  | #0   | QAM16 | 20.45 | 1 | 21.45 | PASS |
| Band4 | 3   | 19965 | 1  | #0   | QPSK  | 22.07 | 1 | 23.07 | PASS |
| Band4 | 3   | 19965 | 1  | #Mid | QPSK  | 22.14 | 1 | 23.14 | PASS |
| Band4 | 3   | 19965 | 1  | #Max | QPSK  | 22.11 | 1 | 23.11 | PASS |
| Band4 | 3   | 19965 | 8  | #0   | QPSK  | 21.27 | 1 | 22.27 | PASS |
| Band4 | 3   | 19965 | 8  | #Mid | QPSK  | 21.26 | 1 | 22.26 | PASS |
| Band4 | 3   | 19965 | 8  | #Max | QPSK  | 21.28 | 1 | 22.28 | PASS |
| Band4 | 3   | 19965 | 15 | #0   | QPSK  | 21.25 | 1 | 22.25 | PASS |
| Band4 | 3   | 19965 | 1  | #0   | QAM16 | 22.20 | 1 | 23.20 | PASS |
| Band4 | 3   | 19965 | 1  | #Mid | QAM16 | 22.28 | 1 | 23.28 | PASS |
| Band4 | 3   | 19965 | 1  | #Max | QAM16 | 22.35 | 1 | 23.35 | PASS |
| Band4 | 3   | 19965 | 8  | #0   | QAM16 | 20.26 | 1 | 21.26 | PASS |
| Band4 | 3   | 19965 | 8  | #Mid | QAM16 | 20.31 | 1 | 21.31 | PASS |
| Band4 | 3   | 19965 | 8  | #Max | QAM16 | 20.25 | 1 | 21.25 | PASS |
| Band4 | 3   | 19965 | 15 | #0   | QAM16 | 20.46 | 1 | 21.46 | PASS |
| Band4 | 3   | 20175 | 1  | #0   | QPSK  | 22.09 | 1 | 23.09 | PASS |
| Band4 | 3   | 20175 | 1  | #Mid | QPSK  | 22.18 | 1 | 23.18 | PASS |
| Band4 | 3   | 20175 | 1  | #Max | QPSK  | 22.17 | 1 | 23.17 | PASS |
| Band4 | 3   | 20175 | 8  | #0   | QPSK  | 21.20 | 1 | 22.20 | PASS |
| Band4 | 3   | 20175 | 8  | #Mid | QPSK  | 21.18 | 1 | 22.18 | PASS |
| Band4 | 3   | 20175 | 8  | #Max | QPSK  | 21.23 | 1 | 22.23 | PASS |
| Band4 | 3   | 20175 | 15 | #0   | QPSK  | 21.22 | 1 | 22.22 | PASS |
| Band4 | 3   | 20175 | 1  | #0   | QAM16 | 22.03 | 1 | 23.03 | PASS |
| Band4 | 3   | 20175 | 1  | #Mid | QAM16 | 21.99 | 1 | 22.99 | PASS |
| Band4 | 3   | 20175 | 1  | #Max | QAM16 | 22.03 | 1 | 23.03 | PASS |
| Band4 | 3   | 20175 | 8  | #0   | QAM16 | 20.56 | 1 | 21.56 | PASS |
| Band4 | 3   | 20175 | 8  | #Mid | QAM16 | 20.56 | 1 | 21.56 | PASS |
| Band4 | 3   | 20175 | 8  | #Max | QAM16 | 20.58 | 1 | 21.58 | PASS |
| Band4 | 3   | 20175 | 15 | #0   | QAM16 | 20.35 | 1 | 21.35 | PASS |
| Band4 | 3   | 20385 | 1  | #0   | QPSK  | 22.55 | 1 | 23.55 | PASS |
| Band4 | 3   | 20385 | 1  | #Mid | QPSK  | 22.53 | 1 | 23.53 | PASS |
| Band4 | 3   | 20385 | 1  | #Max | QPSK  | 22.57 | 1 | 23.57 | PASS |
| Band4 | 3   | 20385 | 8  | #0   | QPSK  | 21.35 | 1 | 22.35 | PASS |
| Band4 | 3   | 20385 | 8  | #Mid | QPSK  | 21.36 | 1 | 22.36 | PASS |
| Band4 | 3   | 20385 | 8  | #Max | QPSK  | 21.30 | 1 | 22.30 | PASS |
| Band4 | 3   | 20385 | 15 | #0   | QPSK  | 21.35 | 1 | 22.35 | PASS |
| Band4 | 3   | 20385 | 1  | #0   | QAM16 | 21.53 | 1 | 22.53 | PASS |
| Band4 | 3   | 20385 | 1  | #Mid | QAM16 | 21.58 | 1 | 22.58 | PASS |

|       |   |       |    |      |       |       |   |       |      |
|-------|---|-------|----|------|-------|-------|---|-------|------|
| Band4 | 3 | 20385 | 1  | #Max | QAM16 | 21.56 | 1 | 22.56 | PASS |
| Band4 | 3 | 20385 | 8  | #0   | QAM16 | 20.40 | 1 | 21.40 | PASS |
| Band4 | 3 | 20385 | 8  | #Mid | QAM16 | 20.38 | 1 | 21.38 | PASS |
| Band4 | 3 | 20385 | 8  | #Max | QAM16 | 20.42 | 1 | 21.42 | PASS |
| Band4 | 3 | 20385 | 15 | #0   | QAM16 | 20.29 | 1 | 21.29 | PASS |
| Band4 | 5 | 19975 | 1  | #0   | QPSK  | 22.20 | 1 | 23.20 | PASS |
| Band4 | 5 | 19975 | 1  | #Mid | QPSK  | 22.15 | 1 | 23.15 | PASS |
| Band4 | 5 | 19975 | 1  | #Max | QPSK  | 22.21 | 1 | 23.21 | PASS |
| Band4 | 5 | 19975 | 12 | #0   | QPSK  | 21.31 | 1 | 22.31 | PASS |
| Band4 | 5 | 19975 | 12 | #Mid | QPSK  | 21.34 | 1 | 22.34 | PASS |
| Band4 | 5 | 19975 | 12 | #Max | QPSK  | 21.31 | 1 | 22.31 | PASS |
| Band4 | 5 | 19975 | 25 | #0   | QPSK  | 21.24 | 1 | 22.24 | PASS |
| Band4 | 5 | 19975 | 1  | #0   | QAM16 | 21.53 | 1 | 22.53 | PASS |
| Band4 | 5 | 19975 | 1  | #Mid | QAM16 | 21.53 | 1 | 22.53 | PASS |
| Band4 | 5 | 19975 | 1  | #Max | QAM16 | 21.55 | 1 | 22.55 | PASS |
| Band4 | 5 | 19975 | 12 | #0   | QAM16 | 20.31 | 1 | 21.31 | PASS |
| Band4 | 5 | 19975 | 12 | #Mid | QAM16 | 20.27 | 1 | 21.27 | PASS |
| Band4 | 5 | 19975 | 12 | #Max | QAM16 | 20.30 | 1 | 21.30 | PASS |
| Band4 | 5 | 19975 | 25 | #0   | QAM16 | 20.42 | 1 | 21.42 | PASS |
| Band4 | 5 | 20175 | 1  | #0   | QPSK  | 22.21 | 1 | 23.21 | PASS |
| Band4 | 5 | 20175 | 1  | #Mid | QPSK  | 22.23 | 1 | 23.23 | PASS |
| Band4 | 5 | 20175 | 1  | #Max | QPSK  | 22.22 | 1 | 23.22 | PASS |
| Band4 | 5 | 20175 | 12 | #0   | QPSK  | 21.18 | 1 | 22.18 | PASS |
| Band4 | 5 | 20175 | 12 | #Mid | QPSK  | 21.19 | 1 | 22.19 | PASS |
| Band4 | 5 | 20175 | 12 | #Max | QPSK  | 21.17 | 1 | 22.17 | PASS |
| Band4 | 5 | 20175 | 25 | #0   | QPSK  | 21.21 | 1 | 22.21 | PASS |
| Band4 | 5 | 20175 | 1  | #0   | QAM16 | 20.97 | 1 | 21.97 | PASS |
| Band4 | 5 | 20175 | 1  | #Mid | QAM16 | 20.96 | 1 | 21.96 | PASS |
| Band4 | 5 | 20175 | 1  | #Max | QAM16 | 21.05 | 1 | 22.05 | PASS |
| Band4 | 5 | 20175 | 12 | #0   | QAM16 | 20.16 | 1 | 21.16 | PASS |
| Band4 | 5 | 20175 | 12 | #Mid | QAM16 | 20.18 | 1 | 21.18 | PASS |
| Band4 | 5 | 20175 | 12 | #Max | QAM16 | 20.16 | 1 | 21.16 | PASS |
| Band4 | 5 | 20175 | 25 | #0   | QAM16 | 20.36 | 1 | 21.36 | PASS |
| Band4 | 5 | 20375 | 1  | #0   | QPSK  | 22.23 | 1 | 23.23 | PASS |
| Band4 | 5 | 20375 | 1  | #Mid | QPSK  | 22.19 | 1 | 23.19 | PASS |
| Band4 | 5 | 20375 | 1  | #Max | QPSK  | 22.21 | 1 | 23.21 | PASS |
| Band4 | 5 | 20375 | 12 | #0   | QPSK  | 21.27 | 1 | 22.27 | PASS |
| Band4 | 5 | 20375 | 12 | #Mid | QPSK  | 21.33 | 1 | 22.33 | PASS |
| Band4 | 5 | 20375 | 12 | #Max | QPSK  | 21.23 | 1 | 22.23 | PASS |
| Band4 | 5 | 20375 | 25 | #0   | QPSK  | 21.34 | 1 | 22.34 | PASS |
| Band4 | 5 | 20375 | 1  | #0   | QAM16 | 21.27 | 1 | 22.27 | PASS |
| Band4 | 5 | 20375 | 1  | #Mid | QAM16 | 21.32 | 1 | 22.32 | PASS |

|       |    |       |    |      |       |       |   |       |      |
|-------|----|-------|----|------|-------|-------|---|-------|------|
| Band4 | 5  | 20375 | 1  | #Max | QAM16 | 21.30 | 1 | 22.30 | PASS |
| Band4 | 5  | 20375 | 12 | #0   | QAM16 | 20.39 | 1 | 21.39 | PASS |
| Band4 | 5  | 20375 | 12 | #Mid | QAM16 | 20.40 | 1 | 21.40 | PASS |
| Band4 | 5  | 20375 | 12 | #Max | QAM16 | 20.38 | 1 | 21.38 | PASS |
| Band4 | 5  | 20375 | 25 | #0   | QAM16 | 20.32 | 1 | 21.32 | PASS |
| Band4 | 10 | 20000 | 1  | #0   | QPSK  | 22.10 | 1 | 23.10 | PASS |
| Band4 | 10 | 20000 | 1  | #Mid | QPSK  | 22.12 | 1 | 23.12 | PASS |
| Band4 | 10 | 20000 | 1  | #Max | QPSK  | 22.17 | 1 | 23.17 | PASS |
| Band4 | 10 | 20000 | 25 | #0   | QPSK  | 21.31 | 1 | 22.31 | PASS |
| Band4 | 10 | 20000 | 25 | #Mid | QPSK  | 21.17 | 1 | 22.17 | PASS |
| Band4 | 10 | 20000 | 25 | #Max | QPSK  | 21.22 | 1 | 22.22 | PASS |
| Band4 | 10 | 20000 | 50 | #0   | QPSK  | 21.23 | 1 | 22.23 | PASS |
| Band4 | 10 | 20000 | 1  | #0   | QAM16 | 22.23 | 1 | 23.23 | PASS |
| Band4 | 10 | 20000 | 1  | #Mid | QAM16 | 22.40 | 1 | 23.40 | PASS |
| Band4 | 10 | 20000 | 1  | #Max | QAM16 | 22.45 | 1 | 23.45 | PASS |
| Band4 | 10 | 20000 | 25 | #0   | QAM16 | 20.29 | 1 | 21.29 | PASS |
| Band4 | 10 | 20000 | 25 | #Mid | QAM16 | 20.27 | 1 | 21.27 | PASS |
| Band4 | 10 | 20000 | 25 | #Max | QAM16 | 20.25 | 1 | 21.25 | PASS |
| Band4 | 10 | 20175 | 1  | #0   | QPSK  | 22.04 | 1 | 23.04 | PASS |
| Band4 | 10 | 20175 | 1  | #Mid | QPSK  | 22.17 | 1 | 23.17 | PASS |
| Band4 | 10 | 20175 | 1  | #Max | QPSK  | 22.19 | 1 | 23.19 | PASS |
| Band4 | 10 | 20175 | 25 | #0   | QPSK  | 21.16 | 1 | 22.16 | PASS |
| Band4 | 10 | 20175 | 25 | #Mid | QPSK  | 21.25 | 1 | 22.25 | PASS |
| Band4 | 10 | 20175 | 25 | #Max | QPSK  | 21.16 | 1 | 22.16 | PASS |
| Band4 | 10 | 20175 | 50 | #0   | QPSK  | 21.29 | 1 | 22.29 | PASS |
| Band4 | 10 | 20175 | 1  | #0   | QAM16 | 21.94 | 1 | 22.94 | PASS |
| Band4 | 10 | 20175 | 1  | #Mid | QAM16 | 22.01 | 1 | 23.01 | PASS |
| Band4 | 10 | 20175 | 1  | #Max | QAM16 | 22.00 | 1 | 23.00 | PASS |
| Band4 | 10 | 20175 | 25 | #0   | QAM16 | 20.37 | 1 | 21.37 | PASS |
| Band4 | 10 | 20175 | 25 | #Mid | QAM16 | 20.42 | 1 | 21.42 | PASS |
| Band4 | 10 | 20175 | 25 | #Max | QAM16 | 20.35 | 1 | 21.35 | PASS |
| Band4 | 10 | 20350 | 1  | #0   | QPSK  | 22.38 | 1 | 23.38 | PASS |
| Band4 | 10 | 20350 | 1  | #Mid | QPSK  | 22.43 | 1 | 23.43 | PASS |
| Band4 | 10 | 20350 | 1  | #Max | QPSK  | 22.41 | 1 | 23.41 | PASS |
| Band4 | 10 | 20350 | 25 | #0   | QPSK  | 21.31 | 1 | 22.31 | PASS |
| Band4 | 10 | 20350 | 25 | #Mid | QPSK  | 21.33 | 1 | 22.33 | PASS |
| Band4 | 10 | 20350 | 25 | #Max | QPSK  | 21.27 | 1 | 22.27 | PASS |
| Band4 | 10 | 20350 | 50 | #0   | QPSK  | 21.40 | 1 | 22.40 | PASS |
| Band4 | 10 | 20350 | 1  | #0   | QAM16 | 21.91 | 1 | 22.91 | PASS |
| Band4 | 10 | 20350 | 1  | #Mid | QAM16 | 21.83 | 1 | 22.83 | PASS |
| Band4 | 10 | 20350 | 1  | #Max | QAM16 | 21.94 | 1 | 22.94 | PASS |
| Band4 | 10 | 20350 | 25 | #0   | QAM16 | 20.42 | 1 | 21.42 | PASS |

|       |    |       |    |      |       |       |   |       |      |
|-------|----|-------|----|------|-------|-------|---|-------|------|
| Band4 | 10 | 20350 | 25 | #Mid | QAM16 | 20.46 | 1 | 21.46 | PASS |
| Band4 | 10 | 20350 | 25 | #Max | QAM16 | 20.38 | 1 | 21.38 | PASS |
| Band4 | 15 | 20025 | 1  | #0   | QPSK  | 22.14 | 1 | 23.14 | PASS |
| Band4 | 15 | 20025 | 1  | #Mid | QPSK  | 22.11 | 1 | 23.11 | PASS |
| Band4 | 15 | 20025 | 1  | #Max | QPSK  | 22.10 | 1 | 23.10 | PASS |
| Band4 | 15 | 20025 | 36 | #0   | QPSK  | 21.25 | 1 | 22.25 | PASS |
| Band4 | 15 | 20025 | 36 | #Mid | QPSK  | 21.12 | 1 | 22.12 | PASS |
| Band4 | 15 | 20025 | 36 | #Max | QPSK  | 21.09 | 1 | 22.09 | PASS |
| Band4 | 15 | 20025 | 75 | #0   | QPSK  | 21.15 | 1 | 22.15 | PASS |
| Band4 | 15 | 20025 | 1  | #0   | QAM16 | 22.23 | 1 | 23.23 | PASS |
| Band4 | 15 | 20025 | 1  | #Mid | QAM16 | 22.38 | 1 | 23.38 | PASS |
| Band4 | 15 | 20025 | 1  | #Max | QAM16 | 22.42 | 1 | 23.42 | PASS |
| Band4 | 15 | 20025 | 36 | #0   | QAM16 | 20.29 | 1 | 21.29 | PASS |
| Band4 | 15 | 20025 | 36 | #Mid | QAM16 | 20.34 | 1 | 21.34 | PASS |
| Band4 | 15 | 20025 | 36 | #Max | QAM16 | 20.30 | 1 | 21.30 | PASS |
| Band4 | 15 | 20175 | 1  | #0   | QPSK  | 22.11 | 1 | 23.11 | PASS |
| Band4 | 15 | 20175 | 1  | #Mid | QPSK  | 22.16 | 1 | 23.16 | PASS |
| Band4 | 15 | 20175 | 1  | #Max | QPSK  | 22.20 | 1 | 23.20 | PASS |
| Band4 | 15 | 20175 | 36 | #0   | QPSK  | 21.17 | 1 | 22.17 | PASS |
| Band4 | 15 | 20175 | 36 | #Mid | QPSK  | 21.12 | 1 | 22.12 | PASS |
| Band4 | 15 | 20175 | 36 | #Max | QPSK  | 21.22 | 1 | 22.22 | PASS |
| Band4 | 15 | 20175 | 75 | #0   | QPSK  | 21.15 | 1 | 22.15 | PASS |
| Band4 | 15 | 20175 | 1  | #0   | QAM16 | 21.94 | 1 | 22.94 | PASS |
| Band4 | 15 | 20175 | 1  | #Mid | QAM16 | 21.99 | 1 | 22.99 | PASS |
| Band4 | 15 | 20175 | 1  | #Max | QAM16 | 21.94 | 1 | 22.94 | PASS |
| Band4 | 15 | 20175 | 36 | #0   | QAM16 | 20.38 | 1 | 21.38 | PASS |
| Band4 | 15 | 20175 | 36 | #Mid | QAM16 | 20.44 | 1 | 21.44 | PASS |
| Band4 | 15 | 20175 | 36 | #Max | QAM16 | 20.45 | 1 | 21.45 | PASS |
| Band4 | 15 | 20325 | 1  | #0   | QPSK  | 22.24 | 1 | 23.24 | PASS |
| Band4 | 15 | 20325 | 1  | #Mid | QPSK  | 22.22 | 1 | 23.22 | PASS |
| Band4 | 15 | 20325 | 1  | #Max | QPSK  | 22.26 | 1 | 23.26 | PASS |
| Band4 | 15 | 20325 | 36 | #0   | QPSK  | 21.25 | 1 | 22.25 | PASS |
| Band4 | 15 | 20325 | 36 | #Mid | QPSK  | 21.21 | 1 | 22.21 | PASS |
| Band4 | 15 | 20325 | 36 | #Max | QPSK  | 21.23 | 1 | 22.23 | PASS |
| Band4 | 15 | 20325 | 75 | #0   | QPSK  | 21.15 | 1 | 22.15 | PASS |
| Band4 | 15 | 20325 | 1  | #0   | QAM16 | 22.24 | 1 | 23.24 | PASS |
| Band4 | 15 | 20325 | 1  | #Mid | QAM16 | 22.03 | 1 | 23.03 | PASS |
| Band4 | 15 | 20325 | 1  | #Max | QAM16 | 22.09 | 1 | 23.09 | PASS |
| Band4 | 15 | 20325 | 36 | #0   | QAM16 | 20.30 | 1 | 21.30 | PASS |
| Band4 | 15 | 20325 | 36 | #Mid | QAM16 | 20.29 | 1 | 21.29 | PASS |
| Band4 | 15 | 20325 | 36 | #Max | QAM16 | 20.30 | 1 | 21.30 | PASS |
| Band4 | 20 | 20050 | 1  | #0   | QPSK  | 22.36 | 1 | 23.36 | PASS |

|       |    |       |     |      |       |       |   |       |      |
|-------|----|-------|-----|------|-------|-------|---|-------|------|
| Band4 | 20 | 20050 | 1   | #Mid | QPSK  | 22.24 | 1 | 23.24 | PASS |
| Band4 | 20 | 20050 | 1   | #Max | QPSK  | 22.19 | 1 | 23.19 | PASS |
| Band4 | 20 | 20050 | 50  | #0   | QPSK  | 21.26 | 1 | 22.26 | PASS |
| Band4 | 20 | 20050 | 50  | #Mid | QPSK  | 21.22 | 1 | 22.22 | PASS |
| Band4 | 20 | 20050 | 50  | #Max | QPSK  | 21.21 | 1 | 22.21 | PASS |
| Band4 | 20 | 20050 | 100 | #0   | QPSK  | 21.16 | 1 | 22.16 | PASS |
| Band4 | 20 | 20050 | 1   | #0   | QAM16 | 21.06 | 1 | 22.06 | PASS |
| Band4 | 20 | 20050 | 1   | #Mid | QAM16 | 20.95 | 1 | 21.95 | PASS |
| Band4 | 20 | 20050 | 1   | #Max | QAM16 | 20.94 | 1 | 21.94 | PASS |
| Band4 | 20 | 20050 | 50  | #0   | QAM16 | 20.37 | 1 | 21.37 | PASS |
| Band4 | 20 | 20050 | 50  | #Mid | QAM16 | 20.42 | 1 | 21.42 | PASS |
| Band4 | 20 | 20050 | 50  | #Max | QAM16 | 20.37 | 1 | 21.37 | PASS |
| Band4 | 20 | 20175 | 1   | #0   | QPSK  | 22.13 | 1 | 23.13 | PASS |
| Band4 | 20 | 20175 | 1   | #Mid | QPSK  | 22.28 | 1 | 23.28 | PASS |
| Band4 | 20 | 20175 | 1   | #Max | QPSK  | 22.26 | 1 | 23.26 | PASS |
| Band4 | 20 | 20175 | 50  | #0   | QPSK  | 21.15 | 1 | 22.15 | PASS |
| Band4 | 20 | 20175 | 50  | #Mid | QPSK  | 21.23 | 1 | 22.23 | PASS |
| Band4 | 20 | 20175 | 50  | #Max | QPSK  | 21.24 | 1 | 22.24 | PASS |
| Band4 | 20 | 20175 | 100 | #0   | QPSK  | 21.27 | 1 | 22.27 | PASS |
| Band4 | 20 | 20175 | 1   | #0   | QAM16 | 21.49 | 1 | 22.49 | PASS |
| Band4 | 20 | 20175 | 1   | #Mid | QAM16 | 21.44 | 1 | 22.44 | PASS |
| Band4 | 20 | 20175 | 1   | #Max | QAM16 | 21.60 | 1 | 22.60 | PASS |
| Band4 | 20 | 20175 | 50  | #0   | QAM16 | 20.26 | 1 | 21.26 | PASS |
| Band4 | 20 | 20175 | 50  | #Mid | QAM16 | 20.38 | 1 | 21.38 | PASS |
| Band4 | 20 | 20175 | 50  | #Max | QAM16 | 20.36 | 1 | 21.36 | PASS |
| Band4 | 20 | 20300 | 1   | #0   | QPSK  | 22.32 | 1 | 23.32 | PASS |
| Band4 | 20 | 20300 | 1   | #Mid | QPSK  | 22.29 | 1 | 23.29 | PASS |
| Band4 | 20 | 20300 | 1   | #Max | QPSK  | 22.34 | 1 | 23.34 | PASS |
| Band4 | 20 | 20300 | 50  | #0   | QPSK  | 21.23 | 1 | 22.23 | PASS |
| Band4 | 20 | 20300 | 50  | #Mid | QPSK  | 21.35 | 1 | 22.35 | PASS |
| Band4 | 20 | 20300 | 50  | #Max | QPSK  | 21.38 | 1 | 22.38 | PASS |
| Band4 | 20 | 20300 | 100 | #0   | QPSK  | 21.25 | 1 | 22.25 | PASS |
| Band4 | 20 | 20300 | 1   | #0   | QAM16 | 21.58 | 1 | 22.58 | PASS |
| Band4 | 20 | 20300 | 1   | #Mid | QAM16 | 21.48 | 1 | 22.48 | PASS |
| Band4 | 20 | 20300 | 1   | #Max | QAM16 | 21.48 | 1 | 22.48 | PASS |
| Band4 | 20 | 20300 | 50  | #0   | QAM16 | 20.36 | 1 | 21.36 | PASS |
| Band4 | 20 | 20300 | 50  | #Mid | QAM16 | 20.38 | 1 | 21.38 | PASS |
| Band4 | 20 | 20300 | 50  | #Max | QAM16 | 20.48 | 1 | 21.48 | 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              | 21.80       | 0.013        | -2.5            | 2.5              | PASS    |
| Band 4 | 1.4             | 19957      | 6       | #0          | QPSK       | NV            | NT              | -5.38       | -0.003       | -2.5            | 2.5              | PASS    |
| Band 4 | 1.4             | 19957      | 6       | #0          | QPSK       | HV            | NT              | -11.32      | -0.007       | -2.5            | 2.5              | PASS    |
| Band 4 | 1.4             | 19957      | 6       | #0          | QAM16      | LV            | NT              | -22.19      | -0.013       | -2.5            | 2.5              | PASS    |
| Band 4 | 1.4             | 19957      | 6       | #0          | QAM16      | NV            | NT              | -18.21      | -0.011       | -2.5            | 2.5              | PASS    |
| Band 4 | 1.4             | 19957      | 6       | #0          | QAM16      | HV            | NT              | -20.17      | -0.012       | -2.5            | 2.5              | PASS    |
| Band 4 | 1.4             | 20175      | 6       | #0          | QPSK       | LV            | NT              | -13.16      | -0.008       | -2.5            | 2.5              | PASS    |
| Band 4 | 1.4             | 20175      | 6       | #0          | QPSK       | NV            | NT              | -38.11      | -0.022       | -2.5            | 2.5              | PASS    |
| Band 4 | 1.4             | 20175      | 6       | #0          | QPSK       | HV            | NT              | -29.20      | -0.017       | -2.5            | 2.5              | PASS    |
| Band 4 | 1.4             | 20175      | 6       | #0          | QAM16      | LV            | NT              | -20.16      | -0.012       | -2.5            | 2.5              | PASS    |
| Band 4 | 1.4             | 20175      | 6       | #0          | QAM16      | NV            | NT              | -13.03      | -0.008       | -2.5            | 2.5              | PASS    |
| Band 4 | 1.4             | 20175      | 6       | #0          | QAM16      | HV            | NT              | -35.15      | -0.020       | -2.5            | 2.5              | PASS    |
| Band 4 | 1.4             | 20393      | 6       | #0          | QPSK       | LV            | NT              | -16.98      | -0.010       | -2.5            | 2.5              | PASS    |
| Band 4 | 1.4             | 20393      | 6       | #0          | QPSK       | NV            | NT              | -0.31       | 0.000        | -2.5            | 2.5              | PASS    |
| Band 4 | 1.4             | 20393      | 6       | #0          | QPSK       | HV            | NT              | -37.57      | -0.021       | -2.5            | 2.5              | PASS    |
| Band 4 | 1.4             | 20393      | 6       | #0          | QAM16      | LV            | NT              | -45.60      | -0.026       | -2.5            | 2.5              | PASS    |
| Band 4 | 1.4             | 20393      | 6       | #0          | QAM16      | NV            | NT              | -27.67      | -0.016       | -2.5            | 2.5              | PASS    |
| Band 4 | 1.4             | 20393      | 6       | #0          | QAM16      | HV            | NT              | -21.24      | -0.012       | -2.5            | 2.5              | PASS    |

|           |    |       |    |    |       |    |    |            |            |      |     |      |
|-----------|----|-------|----|----|-------|----|----|------------|------------|------|-----|------|
| Band<br>4 | 5  | 19975 | 25 | #0 | QPSK  | LV | NT | 10.17      | 0.006      | -2.5 | 2.5 | PASS |
| Band<br>4 | 5  | 19975 | 25 | #0 | QPSK  | NV | NT | -12.9<br>7 | -0.00<br>8 | -2.5 | 2.5 | PASS |
| Band<br>4 | 5  | 19975 | 25 | #0 | QPSK  | HV | NT | -19.6<br>3 | -0.011     | -2.5 | 2.5 | PASS |
| Band<br>4 | 5  | 19975 | 25 | #0 | QAM16 | LV | NT | -23.6<br>7 | -0.01<br>4 | -2.5 | 2.5 | PASS |
| Band<br>4 | 5  | 19975 | 25 | #0 | QAM16 | NV | NT | -28.9<br>1 | -0.01<br>7 | -2.5 | 2.5 | PASS |
| Band<br>4 | 5  | 19975 | 25 | #0 | QAM16 | HV | NT | -30.0<br>4 | -0.01<br>8 | -2.5 | 2.5 | PASS |
| Band<br>4 | 5  | 20175 | 25 | #0 | QPSK  | LV | NT | -31.4<br>1 | -0.01<br>8 | -2.5 | 2.5 | PASS |
| Band<br>4 | 5  | 20175 | 25 | #0 | QPSK  | NV | NT | -9.20      | -0.00<br>5 | -2.5 | 2.5 | PASS |
| Band<br>4 | 5  | 20175 | 25 | #0 | QPSK  | HV | NT | -25.7<br>6 | -0.01<br>5 | -2.5 | 2.5 | PASS |
| Band<br>4 | 5  | 20175 | 25 | #0 | QAM16 | LV | NT | -9.48      | -0.00<br>5 | -2.5 | 2.5 | PASS |
| Band<br>4 | 5  | 20175 | 25 | #0 | QAM16 | NV | NT | -30.7<br>7 | -0.01<br>8 | -2.5 | 2.5 | PASS |
| Band<br>4 | 5  | 20175 | 25 | #0 | QAM16 | HV | NT | -18.4<br>4 | -0.011     | -2.5 | 2.5 | PASS |
| Band<br>4 | 5  | 20375 | 25 | #0 | QPSK  | LV | NT | -9.07      | -0.00<br>5 | -2.5 | 2.5 | PASS |
| Band<br>4 | 5  | 20375 | 25 | #0 | QPSK  | NV | NT | -33.4<br>5 | -0.01<br>9 | -2.5 | 2.5 | PASS |
| Band<br>4 | 5  | 20375 | 25 | #0 | QPSK  | HV | NT | -9.10      | -0.00<br>5 | -2.5 | 2.5 | PASS |
| Band<br>4 | 5  | 20375 | 25 | #0 | QAM16 | LV | NT | -11.90     | -0.00<br>7 | -2.5 | 2.5 | PASS |
| Band<br>4 | 5  | 20375 | 25 | #0 | QAM16 | NV | NT | -28.1<br>7 | -0.01<br>6 | -2.5 | 2.5 | PASS |
| Band<br>4 | 5  | 20375 | 25 | #0 | QAM16 | HV | NT | -29.0<br>5 | -0.01<br>7 | -2.5 | 2.5 | PASS |
| Band<br>4 | 10 | 20000 | 50 | #0 | QPSK  | LV | NT | 34.72      | 0.020      | -2.5 | 2.5 | PASS |
| Band<br>4 | 10 | 20000 | 50 | #0 | QPSK  | NV | NT | 15.41      | 0.009      | -2.5 | 2.5 | PASS |
| Band<br>4 | 10 | 20000 | 50 | #0 | QPSK  | HV | NT | -22.8<br>3 | -0.01<br>3 | -2.5 | 2.5 | PASS |
| Band      | 10 | 20175 | 50 | #0 | QPSK  | LV | NT | -37.3      | -0.02      | -2.5 | 2.5 | PASS |

|        |    |       |     |    |      |    |    |         |        |      |     |      |
|--------|----|-------|-----|----|------|----|----|---------|--------|------|-----|------|
| 4      |    |       |     |    |      |    |    | 4       | 2      |      |     |      |
| Band 4 | 10 | 20175 | 50  | #0 | QPSK | NV | NT | -25.79  | -0.015 | -2.5 | 2.5 | PASS |
| Band 4 | 10 | 20175 | 50  | #0 | QPSK | HV | NT | -22.39  | -0.013 | -2.5 | 2.5 | PASS |
| Band 4 | 10 | 20350 | 50  | #0 | QPSK | LV | NT | -31.86  | -0.018 | -2.5 | 2.5 | PASS |
| Band 4 | 10 | 20350 | 50  | #0 | QPSK | NV | NT | -20.30  | -0.012 | -2.5 | 2.5 | PASS |
| Band 4 | 10 | 20350 | 50  | #0 | QPSK | HV | NT | -21.07  | -0.012 | -2.5 | 2.5 | PASS |
| Band 4 | 20 | 20050 | 100 | #0 | QPSK | LV | NT | 18.53   | 0.011  | -2.5 | 2.5 | PASS |
| Band 4 | 20 | 20050 | 100 | #0 | QPSK | NV | NT | -18.83  | -0.011 | -2.5 | 2.5 | PASS |
| Band 4 | 20 | 20050 | 100 | #0 | QPSK | HV | NT | -26.52  | -0.015 | -2.5 | 2.5 | PASS |
| Band 4 | 20 | 20175 | 100 | #0 | QPSK | LV | NT | -37.67  | -0.022 | -2.5 | 2.5 | PASS |
| Band 4 | 20 | 20175 | 100 | #0 | QPSK | NV | NT | -26.35  | -0.015 | -2.5 | 2.5 | PASS |
| Band 4 | 20 | 20175 | 100 | #0 | QPSK | HV | NT | -13.02  | -0.008 | -2.5 | 2.5 | PASS |
| Band 4 | 20 | 20300 | 100 | #0 | QPSK | LV | NT | -17.19  | -0.010 | -2.5 | 2.5 | PASS |
| Band 4 | 20 | 20300 | 100 | #0 | QPSK | NV | NT | -18.10  | -0.010 | -2.5 | 2.5 | PASS |
| Band 4 | 20 | 20300 | 100 | #0 | QPSK | HV | NT | -15.89  | -0.009 | -2.5 | 2.5 | PASS |
| Band 4 | 10 | 20000 | 50  | #0 | QPSK | LV | NT | -11.827 | -0.007 | -2.5 | 2.5 | PASS |
| Band 4 | 10 | 20000 | 50  | #0 | QPSK | NV | NT | -22.17  | -0.013 | -2.5 | 2.5 | PASS |
| Band 4 | 10 | 20000 | 50  | #0 | QPSK | HV | NT | -26.06  | -0.015 | -2.5 | 2.5 | PASS |
| Band 4 | 10 | 20175 | 50  | #0 | QPSK | LV | NT | -16.11  | -0.009 | -2.5 | 2.5 | PASS |
| Band 4 | 10 | 20175 | 50  | #0 | QPSK | NV | NT | -25.79  | -0.015 | -2.5 | 2.5 | PASS |
| Band 4 | 10 | 20175 | 50  | #0 | QPSK | HV | NT | -25.85  | -0.015 | -2.5 | 2.5 | PASS |
| Band 4 | 10 | 20350 | 50  | #0 | QPSK | LV | NT | -23.23  | -0.013 | -2.5 | 2.5 | PASS |

|           |    |       |     |    |      |    |    |             |            |      |     |      |
|-----------|----|-------|-----|----|------|----|----|-------------|------------|------|-----|------|
| Band<br>4 | 10 | 20350 | 50  | #0 | QPSK | NV | NT | -21.3<br>4  | -0.01<br>2 | -2.5 | 2.5 | PASS |
| Band<br>4 | 10 | 20350 | 50  | #0 | QPSK | HV | NT | -24.1<br>9  | -0.01<br>4 | -2.5 | 2.5 | PASS |
| Band<br>4 | 15 | 20025 | 75  | #0 | QPSK | LV | NT | -32.5<br>2  | -0.01<br>9 | -2.5 | 2.5 | PASS |
| Band<br>4 | 15 | 20025 | 75  | #0 | QPSK | NV | NT | -28.5<br>1  | -0.01<br>7 | -2.5 | 2.5 | PASS |
| Band<br>4 | 15 | 20025 | 75  | #0 | QPSK | HV | NT | -37.3<br>8  | -0.02<br>2 | -2.5 | 2.5 | PASS |
| Band<br>4 | 15 | 20175 | 75  | #0 | QPSK | LV | NT | -22.3<br>3  | -0.01<br>3 | -2.5 | 2.5 | PASS |
| Band<br>4 | 15 | 20175 | 75  | #0 | QPSK | NV | NT | -29.8<br>0  | -0.01<br>7 | -2.5 | 2.5 | PASS |
| Band<br>4 | 15 | 20175 | 75  | #0 | QPSK | HV | NT | -20.11<br>2 | -0.01<br>2 | -2.5 | 2.5 | PASS |
| Band<br>4 | 15 | 20325 | 75  | #0 | QPSK | LV | NT | -18.3<br>1  | -0.01<br>0 | -2.5 | 2.5 | PASS |
| Band<br>4 | 15 | 20325 | 75  | #0 | QPSK | NV | NT | -25.9<br>8  | -0.01<br>5 | -2.5 | 2.5 | PASS |
| Band<br>4 | 15 | 20325 | 75  | #0 | QPSK | HV | NT | -27.5<br>9  | -0.01<br>6 | -2.5 | 2.5 | PASS |
| Band<br>4 | 20 | 20050 | 100 | #0 | QPSK | LV | NT | 30.28       | 0.018      | -2.5 | 2.5 | PASS |
| Band<br>4 | 20 | 20050 | 100 | #0 | QPSK | NV | NT | -21.1<br>3  | -0.01<br>2 | -2.5 | 2.5 | PASS |
| Band<br>4 | 20 | 20050 | 100 | #0 | QPSK | HV | NT | -25.9<br>6  | -0.01<br>5 | -2.5 | 2.5 | PASS |
| Band<br>4 | 20 | 20175 | 100 | #0 | QPSK | LV | NT | -24.6<br>0  | -0.01<br>4 | -2.5 | 2.5 | PASS |
| Band<br>4 | 20 | 20175 | 100 | #0 | QPSK | NV | NT | -31.7<br>4  | -0.01<br>8 | -2.5 | 2.5 | PASS |
| Band<br>4 | 20 | 20175 | 100 | #0 | QPSK | HV | NT | -23.2<br>6  | -0.01<br>3 | -2.5 | 2.5 | PASS |
| Band<br>4 | 20 | 20300 | 100 | #0 | QPSK | LV | NT | -23.8<br>3  | -0.01<br>4 | -2.5 | 2.5 | PASS |
| Band<br>4 | 20 | 20300 | 100 | #0 | QPSK | NV | NT | -28.1<br>7  | -0.01<br>6 | -2.5 | 2.5 | PASS |
| Band<br>4 | 20 | 20300 | 100 | #0 | QPSK | HV | NT | -33.3<br>6  | -0.01<br>9 | -2.5 | 2.5 | PASS |

|       |     |       |    |    |       |    |     |        |        |      |     |      |
|-------|-----|-------|----|----|-------|----|-----|--------|--------|------|-----|------|
| Band4 | 1.4 | 19957 | 6  | #0 | QPSK  | NV | -30 | -5.95  | -0.003 | -2.5 | 2.5 | PASS |
| Band4 | 1.4 | 19957 | 6  | #0 | QPSK  | NV | -20 | -14.42 | -0.008 | -2.5 | 2.5 | PASS |
| Band4 | 1.4 | 19957 | 6  | #0 | QPSK  | NV | 0   | -22.85 | -0.013 | -2.5 | 2.5 | PASS |
| Band4 | 1.4 | 19957 | 6  | #0 | QPSK  | NV | 10  | -35.38 | -0.021 | -2.5 | 2.5 | PASS |
| Band4 | 1.4 | 19957 | 6  | #0 | QPSK  | NV | 20  | -24.69 | -0.014 | -2.5 | 2.5 | PASS |
| Band4 | 1.4 | 19957 | 6  | #0 | QAM16 | NV | -30 | -17.48 | -0.010 | -2.5 | 2.5 | PASS |
| Band4 | 1.4 | 19957 | 6  | #0 | QAM16 | NV | -20 | -17.19 | -0.010 | -2.5 | 2.5 | PASS |
| Band4 | 1.4 | 19957 | 6  | #0 | QAM16 | NV | 0   | -31.90 | -0.019 | -2.5 | 2.5 | PASS |
| Band4 | 1.4 | 19957 | 6  | #0 | QAM16 | NV | 10  | -36.02 | -0.021 | -2.5 | 2.5 | PASS |
| Band4 | 1.4 | 19957 | 6  | #0 | QAM16 | NV | 20  | -23.86 | -0.014 | -2.5 | 2.5 | PASS |
| Band4 | 1.4 | 20175 | 6  | #0 | QPSK  | NV | -30 | -17.14 | -0.010 | -2.5 | 2.5 | PASS |
| Band4 | 1.4 | 20175 | 6  | #0 | QPSK  | NV | -20 | -6.07  | -0.004 | -2.5 | 2.5 | PASS |
| Band4 | 1.4 | 20175 | 6  | #0 | QPSK  | NV | 0   | -35.76 | -0.021 | -2.5 | 2.5 | PASS |
| Band4 | 1.4 | 20175 | 6  | #0 | QPSK  | NV | 10  | -20.80 | -0.012 | -2.5 | 2.5 | PASS |
| Band4 | 1.4 | 20175 | 6  | #0 | QPSK  | NV | 20  | -20.21 | -0.012 | -2.5 | 2.5 | PASS |
| Band4 | 1.4 | 20175 | 6  | #0 | QAM16 | NV | -30 | -23.88 | -0.014 | -2.5 | 2.5 | PASS |
| Band4 | 1.4 | 20175 | 6  | #0 | QAM16 | NV | -20 | -20.81 | -0.012 | -2.5 | 2.5 | PASS |
| Band4 | 1.4 | 20175 | 6  | #0 | QAM16 | NV | 0   | -0.27  | 0.000  | -2.5 | 2.5 | PASS |
| Band4 | 1.4 | 20175 | 6  | #0 | QAM16 | NV | 10  | -29.47 | -0.017 | -2.5 | 2.5 | PASS |
| Band4 | 1.4 | 20175 | 6  | #0 | QAM16 | NV | 20  | -28.38 | -0.016 | -2.5 | 2.5 | PASS |
| Band4 | 1.4 | 20393 | 6  | #0 | QPSK  | NV | -30 | -36.41 | -0.021 | -2.5 | 2.5 | PASS |
| Band4 | 1.4 | 20393 | 6  | #0 | QPSK  | NV | -20 | -26.11 | -0.015 | -2.5 | 2.5 | PASS |
| Band4 | 1.4 | 20393 | 6  | #0 | QPSK  | NV | 0   | -21.67 | -0.012 | -2.5 | 2.5 | PASS |
| Band4 | 1.4 | 20393 | 6  | #0 | QPSK  | NV | 10  | -19.31 | -0.011 | -2.5 | 2.5 | PASS |
| Band4 | 1.4 | 20393 | 6  | #0 | QPSK  | NV | 20  | -10.16 | -0.006 | -2.5 | 2.5 | PASS |
| Band4 | 1.4 | 20393 | 6  | #0 | QAM16 | NV | -30 | -37.45 | -0.021 | -2.5 | 2.5 | PASS |
| Band4 | 1.4 | 20393 | 6  | #0 | QAM16 | NV | -20 | -29.83 | -0.017 | -2.5 | 2.5 | PASS |
| Band4 | 1.4 | 20393 | 6  | #0 | QAM16 | NV | 0   | -23.63 | -0.013 | -2.5 | 2.5 | PASS |
| Band4 | 1.4 | 20393 | 6  | #0 | QAM16 | NV | 10  | -37.52 | -0.021 | -2.5 | 2.5 | PASS |
| Band4 | 1.4 | 20393 | 6  | #0 | QAM16 | NV | 20  | -8.68  | -0.005 | -2.5 | 2.5 | PASS |
| Band4 | 5   | 19975 | 25 | #0 | QPSK  | NV | -30 | 25.92  | 0.015  | -2.5 | 2.5 | PASS |
| Band4 | 5   | 19975 | 25 | #0 | QPSK  | NV | -20 | 9.63   | 0.006  | -2.5 | 2.5 | PASS |
| Band4 | 5   | 19975 | 25 | #0 | QPSK  | NV | 0   | -22.09 | -0.013 | -2.5 | 2.5 | PASS |
| Band4 | 5   | 19975 | 25 | #0 | QPSK  | NV | 10  | -22.56 | -0.013 | -2.5 | 2.5 | PASS |
| Band4 | 5   | 19975 | 25 | #0 | QPSK  | NV | 20  | -21.80 | -0.013 | -2.5 | 2.5 | PASS |
| Band4 | 5   | 19975 | 25 | #0 | QAM16 | NV | -30 | -19.64 | -0.011 | -2.5 | 2.5 | PASS |
| Band4 | 5   | 19975 | 25 | #0 | QAM16 | NV | -20 | -15.25 | -0.009 | -2.5 | 2.5 | PASS |
| Band4 | 5   | 19975 | 25 | #0 | QAM16 | NV | 0   | -19.60 | -0.011 | -2.5 | 2.5 | PASS |
| Band4 | 5   | 19975 | 25 | #0 | QAM16 | NV | 10  | -35.92 | -0.021 | -2.5 | 2.5 | PASS |
| Band4 | 5   | 19975 | 25 | #0 | QAM16 | NV | 20  | -33.72 | -0.020 | -2.5 | 2.5 | PASS |
| Band4 | 5   | 20175 | 25 | #0 | QPSK  | NV | -30 | -20.14 | -0.012 | -2.5 | 2.5 | PASS |

|       |    |       |     |    |       |    |     |        |        |      |     |      |
|-------|----|-------|-----|----|-------|----|-----|--------|--------|------|-----|------|
| Band4 | 5  | 20175 | 25  | #0 | QPSK  | NV | -20 | -27.47 | -0.016 | -2.5 | 2.5 | PASS |
| Band4 | 5  | 20175 | 25  | #0 | QPSK  | NV | 0   | -22.49 | -0.013 | -2.5 | 2.5 | PASS |
| Band4 | 5  | 20175 | 25  | #0 | QPSK  | NV | 10  | -27.57 | -0.016 | -2.5 | 2.5 | PASS |
| Band4 | 5  | 20175 | 25  | #0 | QPSK  | NV | 20  | -19.48 | -0.011 | -2.5 | 2.5 | PASS |
| Band4 | 5  | 20175 | 25  | #0 | QAM16 | NV | -30 | -26.51 | -0.015 | -2.5 | 2.5 | PASS |
| Band4 | 5  | 20175 | 25  | #0 | QAM16 | NV | -20 | -41.61 | -0.024 | -2.5 | 2.5 | PASS |
| Band4 | 5  | 20175 | 25  | #0 | QAM16 | NV | 0   | -17.97 | -0.010 | -2.5 | 2.5 | PASS |
| Band4 | 5  | 20175 | 25  | #0 | QAM16 | NV | 10  | -27.35 | -0.016 | -2.5 | 2.5 | PASS |
| Band4 | 5  | 20175 | 25  | #0 | QAM16 | NV | 20  | -36.94 | -0.021 | -2.5 | 2.5 | PASS |
| Band4 | 5  | 20375 | 25  | #0 | QPSK  | NV | -30 | -15.89 | -0.009 | -2.5 | 2.5 | PASS |
| Band4 | 5  | 20375 | 25  | #0 | QPSK  | NV | -20 | -34.38 | -0.020 | -2.5 | 2.5 | PASS |
| Band4 | 5  | 20375 | 25  | #0 | QPSK  | NV | 0   | -7.91  | -0.005 | -2.5 | 2.5 | PASS |
| Band4 | 5  | 20375 | 25  | #0 | QPSK  | NV | 10  | -31.13 | -0.018 | -2.5 | 2.5 | PASS |
| Band4 | 5  | 20375 | 25  | #0 | QPSK  | NV | 20  | -3.96  | -0.002 | -2.5 | 2.5 | PASS |
| Band4 | 5  | 20375 | 25  | #0 | QAM16 | NV | -30 | -30.23 | -0.017 | -2.5 | 2.5 | PASS |
| Band4 | 5  | 20375 | 25  | #0 | QAM16 | NV | -20 | -8.71  | -0.005 | -2.5 | 2.5 | PASS |
| Band4 | 5  | 20375 | 25  | #0 | QAM16 | NV | 0   | -23.30 | -0.013 | -2.5 | 2.5 | PASS |
| Band4 | 5  | 20375 | 25  | #0 | QAM16 | NV | 10  | -35.65 | -0.020 | -2.5 | 2.5 | PASS |
| Band4 | 5  | 20375 | 25  | #0 | QAM16 | NV | 20  | -16.99 | -0.010 | -2.5 | 2.5 | PASS |
| Band4 | 10 | 20000 | 50  | #0 | QAM16 | NV | -30 | 13.52  | 0.008  | -2.5 | 2.5 | PASS |
| Band4 | 10 | 20000 | 50  | #0 | QAM16 | NV | -20 | 5.48   | 0.003  | -2.5 | 2.5 | PASS |
| Band4 | 10 | 20000 | 50  | #0 | QAM16 | NV | 0   | -23.78 | -0.014 | -2.5 | 2.5 | PASS |
| Band4 | 10 | 20000 | 50  | #0 | QAM16 | NV | 10  | -21.69 | -0.013 | -2.5 | 2.5 | PASS |
| Band4 | 10 | 20000 | 50  | #0 | QAM16 | NV | 20  | -21.03 | -0.012 | -2.5 | 2.5 | PASS |
| Band4 | 10 | 20175 | 50  | #0 | QAM16 | NV | -30 | -15.19 | -0.009 | -2.5 | 2.5 | PASS |
| Band4 | 10 | 20175 | 50  | #0 | QAM16 | NV | -20 | -25.49 | -0.015 | -2.5 | 2.5 | PASS |
| Band4 | 10 | 20175 | 50  | #0 | QAM16 | NV | 0   | -6.94  | -0.004 | -2.5 | 2.5 | PASS |
| Band4 | 10 | 20175 | 50  | #0 | QAM16 | NV | 10  | -26.54 | -0.015 | -2.5 | 2.5 | PASS |
| Band4 | 10 | 20175 | 50  | #0 | QAM16 | NV | 20  | -27.21 | -0.016 | -2.5 | 2.5 | PASS |
| Band4 | 10 | 20350 | 50  | #0 | QAM16 | NV | -30 | -19.81 | -0.011 | -2.5 | 2.5 | PASS |
| Band4 | 10 | 20350 | 50  | #0 | QAM16 | NV | -20 | -21.53 | -0.012 | -2.5 | 2.5 | PASS |
| Band4 | 10 | 20350 | 50  | #0 | QAM16 | NV | 0   | -33.36 | -0.019 | -2.5 | 2.5 | PASS |
| Band4 | 10 | 20350 | 50  | #0 | QAM16 | NV | 10  | -15.62 | -0.009 | -2.5 | 2.5 | PASS |
| Band4 | 10 | 20350 | 50  | #0 | QAM16 | NV | 20  | -33.99 | -0.019 | -2.5 | 2.5 | PASS |
| Band4 | 20 | 20050 | 100 | #0 | QAM16 | NV | -30 | -0.13  | 0.000  | -2.5 | 2.5 | PASS |
| Band4 | 20 | 20050 | 100 | #0 | QAM16 | NV | -20 | -20.31 | -0.012 | -2.5 | 2.5 | PASS |
| Band4 | 20 | 20050 | 100 | #0 | QAM16 | NV | 0   | -25.22 | -0.015 | -2.5 | 2.5 | PASS |
| Band4 | 20 | 20050 | 100 | #0 | QAM16 | NV | 10  | -24.68 | -0.014 | -2.5 | 2.5 | PASS |
| Band4 | 20 | 20050 | 100 | #0 | QAM16 | NV | 20  | -23.13 | -0.013 | -2.5 | 2.5 | PASS |
| Band4 | 20 | 20175 | 100 | #0 | QAM16 | NV | -30 | -28.15 | -0.016 | -2.5 | 2.5 | PASS |
| Band4 | 20 | 20175 | 100 | #0 | QAM16 | NV | -20 | -27.32 | -0.016 | -2.5 | 2.5 | PASS |
| Band4 | 20 | 20175 | 100 | #0 | QAM16 | NV | 0   | -8.90  | -0.005 | -2.5 | 2.5 | PASS |

|       |    |       |     |    |       |    |     |        |        |      |     |      |
|-------|----|-------|-----|----|-------|----|-----|--------|--------|------|-----|------|
| Band4 | 20 | 20175 | 100 | #0 | QAM16 | NV | 10  | -23.33 | -0.013 | -2.5 | 2.5 | PASS |
| Band4 | 20 | 20175 | 100 | #0 | QAM16 | NV | 20  | -21.49 | -0.012 | -2.5 | 2.5 | PASS |
| Band4 | 20 | 20300 | 100 | #0 | QAM16 | NV | -30 | -9.00  | -0.005 | -2.5 | 2.5 | PASS |
| Band4 | 20 | 20300 | 100 | #0 | QAM16 | NV | -20 | -32.57 | -0.019 | -2.5 | 2.5 | PASS |
| Band4 | 20 | 20300 | 100 | #0 | QAM16 | NV | 0   | -27.87 | -0.016 | -2.5 | 2.5 | PASS |
| Band4 | 20 | 20300 | 100 | #0 | QAM16 | NV | 10  | -18.60 | -0.011 | -2.5 | 2.5 | PASS |
| Band4 | 20 | 20300 | 100 | #0 | QAM16 | NV | 20  | -17.71 | -0.010 | -2.5 | 2.5 | PASS |
| Band4 | 10 | 20000 | 50  | #0 | QAM16 | NV | -30 | 29.15  | 0.017  | -2.5 | 2.5 | PASS |
| Band4 | 10 | 20000 | 50  | #0 | QAM16 | NV | -20 | -6.77  | -0.004 | -2.5 | 2.5 | PASS |
| Band4 | 10 | 20000 | 50  | #0 | QAM16 | NV | 0   | -2.32  | -0.001 | -2.5 | 2.5 | PASS |
| Band4 | 10 | 20000 | 50  | #0 | QAM16 | NV | 10  | -19.48 | -0.011 | -2.5 | 2.5 | PASS |
| Band4 | 10 | 20000 | 50  | #0 | QAM16 | NV | 20  | -18.77 | -0.011 | -2.5 | 2.5 | PASS |
| Band4 | 10 | 20175 | 50  | #0 | QAM16 | NV | -30 | -36.62 | -0.021 | -2.5 | 2.5 | PASS |
| Band4 | 10 | 20175 | 50  | #0 | QAM16 | NV | -20 | -20.40 | -0.012 | -2.5 | 2.5 | PASS |
| Band4 | 10 | 20175 | 50  | #0 | QAM16 | NV | 0   | -35.51 | -0.020 | -2.5 | 2.5 | PASS |
| Band4 | 10 | 20175 | 50  | #0 | QAM16 | NV | 10  | -14.52 | -0.008 | -2.5 | 2.5 | PASS |
| Band4 | 10 | 20175 | 50  | #0 | QAM16 | NV | 20  | -16.45 | -0.009 | -2.5 | 2.5 | PASS |
| Band4 | 10 | 20350 | 50  | #0 | QAM16 | NV | -30 | -17.24 | -0.010 | -2.5 | 2.5 | PASS |
| Band4 | 10 | 20350 | 50  | #0 | QAM16 | NV | -20 | -14.46 | -0.008 | -2.5 | 2.5 | PASS |
| Band4 | 10 | 20350 | 50  | #0 | QAM16 | NV | 0   | -26.99 | -0.015 | -2.5 | 2.5 | PASS |
| Band4 | 10 | 20350 | 50  | #0 | QAM16 | NV | 10  | -12.59 | -0.007 | -2.5 | 2.5 | PASS |
| Band4 | 10 | 20350 | 50  | #0 | QAM16 | NV | 20  | -33.10 | -0.019 | -2.5 | 2.5 | PASS |
| Band4 | 15 | 20025 | 75  | #0 | QAM16 | NV | -30 | 0.92   | 0.001  | -2.5 | 2.5 | PASS |
| Band4 | 15 | 20025 | 75  | #0 | QAM16 | NV | -20 | -21.64 | -0.013 | -2.5 | 2.5 | PASS |
| Band4 | 15 | 20025 | 75  | #0 | QAM16 | NV | 0   | -26.74 | -0.016 | -2.5 | 2.5 | PASS |
| Band4 | 15 | 20025 | 75  | #0 | QAM16 | NV | 10  | -22.37 | -0.013 | -2.5 | 2.5 | PASS |
| Band4 | 15 | 20025 | 75  | #0 | QAM16 | NV | 20  | -27.67 | -0.016 | -2.5 | 2.5 | PASS |
| Band4 | 15 | 20175 | 75  | #0 | QAM16 | NV | -30 | -18.71 | -0.011 | -2.5 | 2.5 | PASS |
| Band4 | 15 | 20175 | 75  | #0 | QAM16 | NV | -20 | -18.38 | -0.011 | -2.5 | 2.5 | PASS |
| Band4 | 15 | 20175 | 75  | #0 | QAM16 | NV | 0   | -24.83 | -0.014 | -2.5 | 2.5 | PASS |
| Band4 | 15 | 20175 | 75  | #0 | QAM16 | NV | 10  | -29.15 | -0.017 | -2.5 | 2.5 | PASS |
| Band4 | 15 | 20175 | 75  | #0 | QAM16 | NV | 20  | -24.19 | -0.014 | -2.5 | 2.5 | PASS |
| Band4 | 15 | 20325 | 75  | #0 | QAM16 | NV | -30 | -5.89  | -0.003 | -2.5 | 2.5 | PASS |
| Band4 | 15 | 20325 | 75  | #0 | QAM16 | NV | -20 | -20.79 | -0.012 | -2.5 | 2.5 | PASS |
| Band4 | 15 | 20325 | 75  | #0 | QAM16 | NV | 0   | -33.53 | -0.019 | -2.5 | 2.5 | PASS |
| Band4 | 15 | 20325 | 75  | #0 | QAM16 | NV | 10  | -46.81 | -0.027 | -2.5 | 2.5 | PASS |
| Band4 | 15 | 20325 | 75  | #0 | QAM16 | NV | 20  | -18.63 | -0.011 | -2.5 | 2.5 | PASS |
| Band4 | 20 | 20050 | 100 | #0 | QAM16 | NV | -30 | 21.93  | 0.013  | -2.5 | 2.5 | PASS |
| Band4 | 20 | 20050 | 100 | #0 | QAM16 | NV | -20 | -0.54  | 0.000  | -2.5 | 2.5 | PASS |
| Band4 | 20 | 20050 | 100 | #0 | QAM16 | NV | 0   | -26.59 | -0.015 | -2.5 | 2.5 | PASS |
| Band4 | 20 | 20050 | 100 | #0 | QAM16 | NV | 10  | -26.95 | -0.016 | -2.5 | 2.5 | PASS |
| Band4 | 20 | 20050 | 100 | #0 | QAM16 | NV | 20  | -9.53  | -0.006 | -2.5 | 2.5 | PASS |

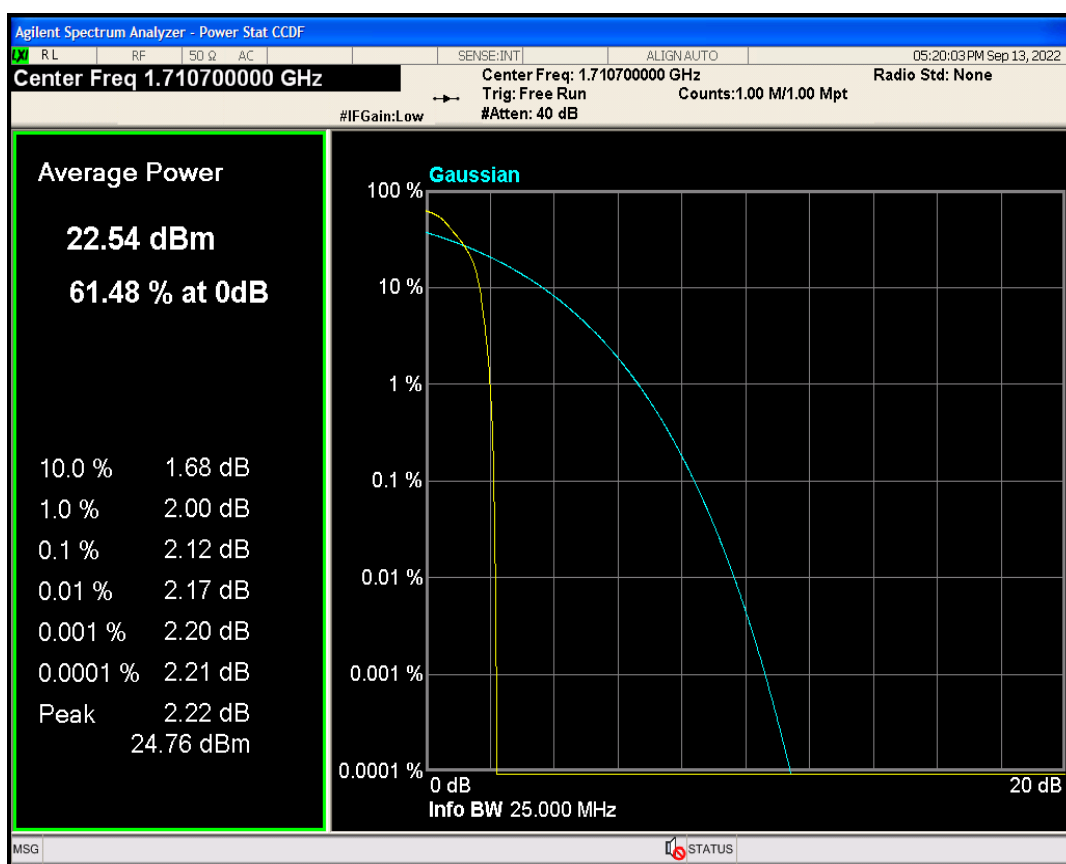
|       |    |       |     |    |       |    |     |        |        |      |     |      |
|-------|----|-------|-----|----|-------|----|-----|--------|--------|------|-----|------|
| Band4 | 20 | 20175 | 100 | #0 | QAM16 | NV | -30 | -1.67  | -0.001 | -2.5 | 2.5 | PASS |
| Band4 | 20 | 20175 | 100 | #0 | QAM16 | NV | -20 | -24.56 | -0.014 | -2.5 | 2.5 | PASS |
| Band4 | 20 | 20175 | 100 | #0 | QAM16 | NV | 0   | -8.50  | -0.005 | -2.5 | 2.5 | PASS |
| Band4 | 20 | 20175 | 100 | #0 | QAM16 | NV | 10  | -25.82 | -0.015 | -2.5 | 2.5 | PASS |
| Band4 | 20 | 20175 | 100 | #0 | QAM16 | NV | 20  | -17.57 | -0.010 | -2.5 | 2.5 | PASS |
| Band4 | 20 | 20300 | 100 | #0 | QAM16 | NV | -30 | -13.69 | -0.008 | -2.5 | 2.5 | PASS |
| Band4 | 20 | 20300 | 100 | #0 | QAM16 | NV | -20 | -31.59 | -0.018 | -2.5 | 2.5 | PASS |
| Band4 | 20 | 20300 | 100 | #0 | QAM16 | NV | 0   | 0.31   | 0.000  | -2.5 | 2.5 | PASS |
| Band4 | 20 | 20300 | 100 | #0 | QAM16 | NV | 10  | -15.44 | -0.009 | -2.5 | 2.5 | PASS |
| Band4 | 20 | 20300 | 100 | #0 | QAM16 | NV | 20  | -25.52 | -0.015 | -2.5 | 2.5 | PASS |

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

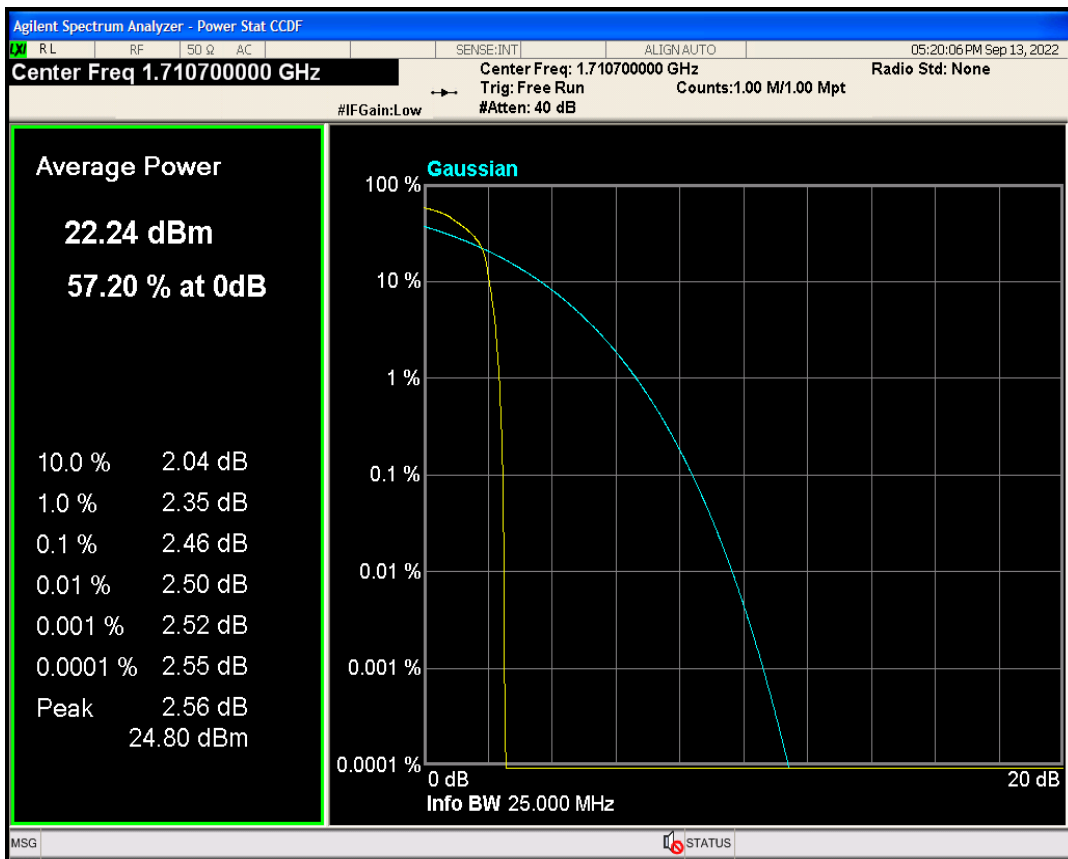
| Band  | Bandwidth (MHz) | UL Channel | RB Size | RB Position | Modulation | Result (dB) | high Limit (dB) | Verdict |
|-------|-----------------|------------|---------|-------------|------------|-------------|-----------------|---------|
| Band4 | 1.4             | 19957      | 1       | #0          | QPSK       | 2.12        | 13              | PASS    |
| Band4 | 1.4             | 19957      | 1       | #0          | QAM16      | 2.46        | 13              | PASS    |
| Band4 | 1.4             | 20175      | 1       | #0          | QPSK       | 4.64        | 13              | PASS    |
| Band4 | 1.4             | 20175      | 1       | #0          | QAM16      | 5.66        | 13              | PASS    |
| Band4 | 1.4             | 20393      | 1       | #0          | QPSK       | 2.20        | 13              | PASS    |
| Band4 | 1.4             | 20393      | 1       | #0          | QAM16      | 3.25        | 13              | PASS    |
| Band4 | 3               | 19965      | 1       | #0          | QPSK       | 2.17        | 13              | PASS    |
| Band4 | 3               | 19965      | 1       | #0          | QAM16      | 2.98        | 13              | PASS    |
| Band4 | 3               | 20175      | 1       | #0          | QPSK       | 4.58        | 13              | PASS    |
| Band4 | 3               | 20175      | 1       | #0          | QAM16      | 5.09        | 13              | PASS    |
| Band4 | 3               | 20385      | 1       | #0          | QPSK       | 2.41        | 13              | PASS    |
| Band4 | 3               | 20385      | 1       | #0          | QAM16      | 3.36        | 13              | PASS    |
| Band4 | 5               | 19975      | 1       | #0          | QPSK       | 2.16        | 13              | PASS    |
| Band4 | 5               | 19975      | 1       | #0          | QAM16      | 3.33        | 13              | PASS    |
| Band4 | 5               | 20175      | 1       | #0          | QPSK       | 4.33        | 13              | PASS    |
| Band4 | 5               | 20175      | 1       | #0          | QAM16      | 5.13        | 13              | PASS    |
| Band4 | 5               | 20375      | 1       | #0          | QPSK       | 2.67        | 13              | PASS    |
| Band4 | 5               | 20375      | 1       | #0          | QAM16      | 3.61        | 13              | PASS    |
| Band4 | 10              | 20000      | 1       | #0          | QPSK       | 2.28        | 13              | PASS    |
| Band4 | 10              | 20000      | 1       | #0          | QAM16      | 3.08        | 13              | PASS    |
| Band4 | 10              | 20175      | 1       | #0          | QPSK       | 4.03        | 13              | PASS    |
| Band4 | 10              | 20175      | 1       | #0          | QAM16      | 5.02        | 13              | PASS    |
| Band4 | 10              | 20350      | 1       | #0          | QPSK       | 1.97        | 13              | PASS    |
| Band4 | 10              | 20350      | 1       | #0          | QAM16      | 3.17        | 13              | PASS    |
| Band4 | 15              | 20025      | 1       | #0          | QPSK       | 2.40        | 13              | PASS    |
| Band4 | 15              | 20025      | 1       | #0          | QAM16      | 3.22        | 13              | PASS    |

|       |    |       |   |    |       |      |    |      |
|-------|----|-------|---|----|-------|------|----|------|
| Band4 | 15 | 20175 | 1 | #0 | QPSK  | 3.67 | 13 | PASS |
| Band4 | 15 | 20175 | 1 | #0 | QAM16 | 4.56 | 13 | PASS |
| Band4 | 15 | 20325 | 1 | #0 | QPSK  | 2.32 | 13 | PASS |
| Band4 | 15 | 20325 | 1 | #0 | QAM16 | 3.04 | 13 | PASS |
| Band4 | 20 | 20050 | 1 | #0 | QPSK  | 2.34 | 13 | PASS |
| Band4 | 20 | 20050 | 1 | #0 | QAM16 | 3.19 | 13 | PASS |
| Band4 | 20 | 20175 | 1 | #0 | QPSK  | 3.40 | 13 | PASS |
| Band4 | 20 | 20175 | 1 | #0 | QAM16 | 4.46 | 13 | PASS |
| Band4 | 20 | 20300 | 1 | #0 | QPSK  | 3.97 | 13 | PASS |
| Band4 | 20 | 20300 | 1 | #0 | QAM16 | 4.87 | 13 | PASS |

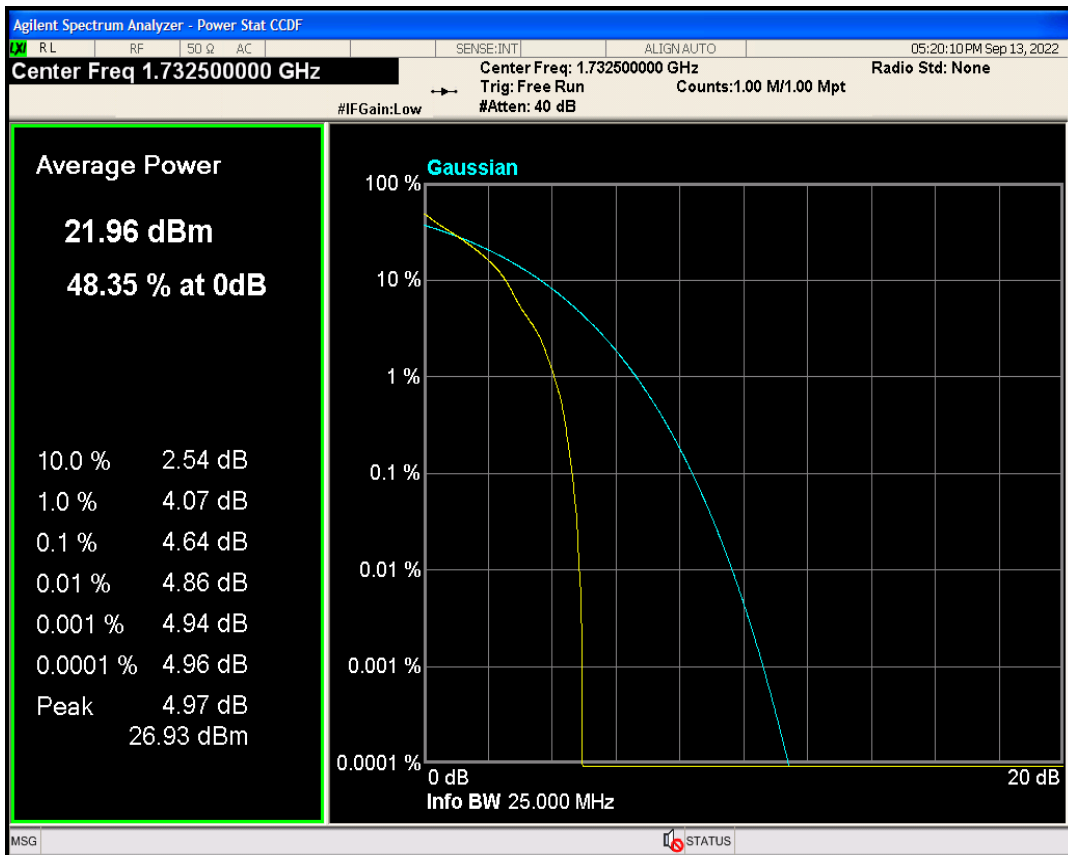
Band4 QPSK BW=1.4MHz Channel=19957 RB Size=1 Position=#0



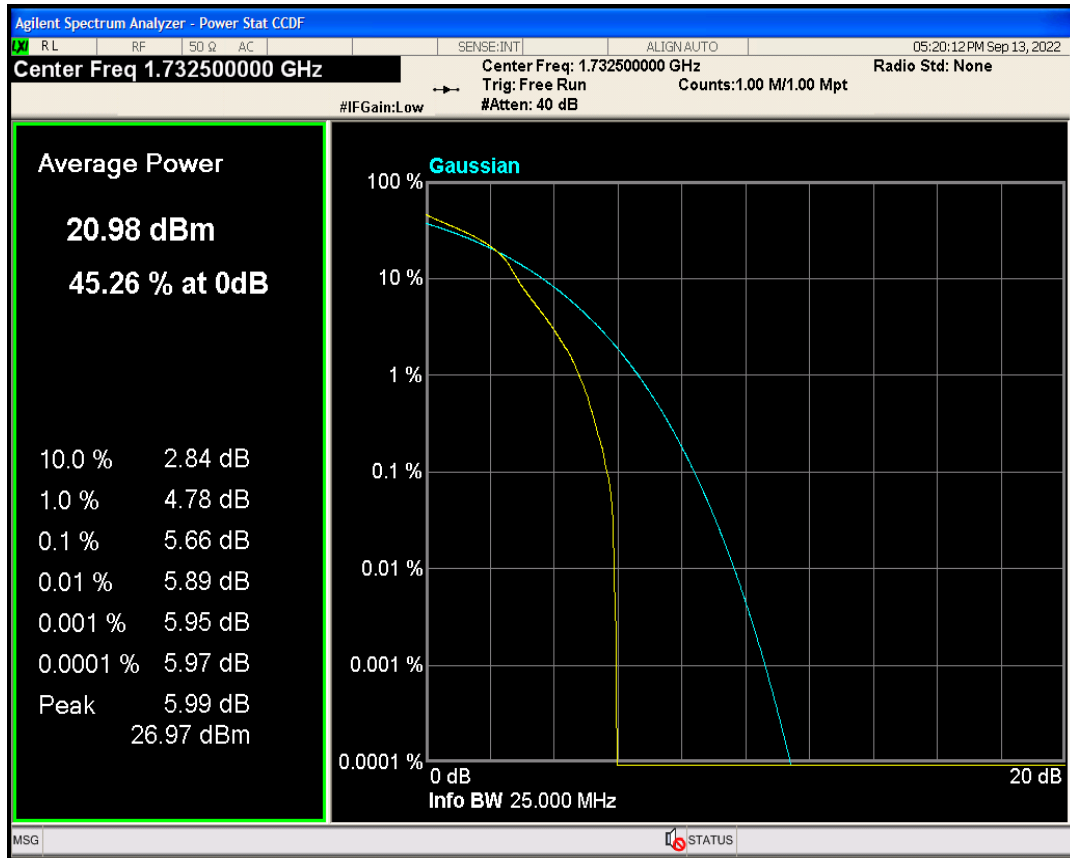
Band4 QAM16 BW=1.4MHz Channel=19957 RB Size=1 Position=#0



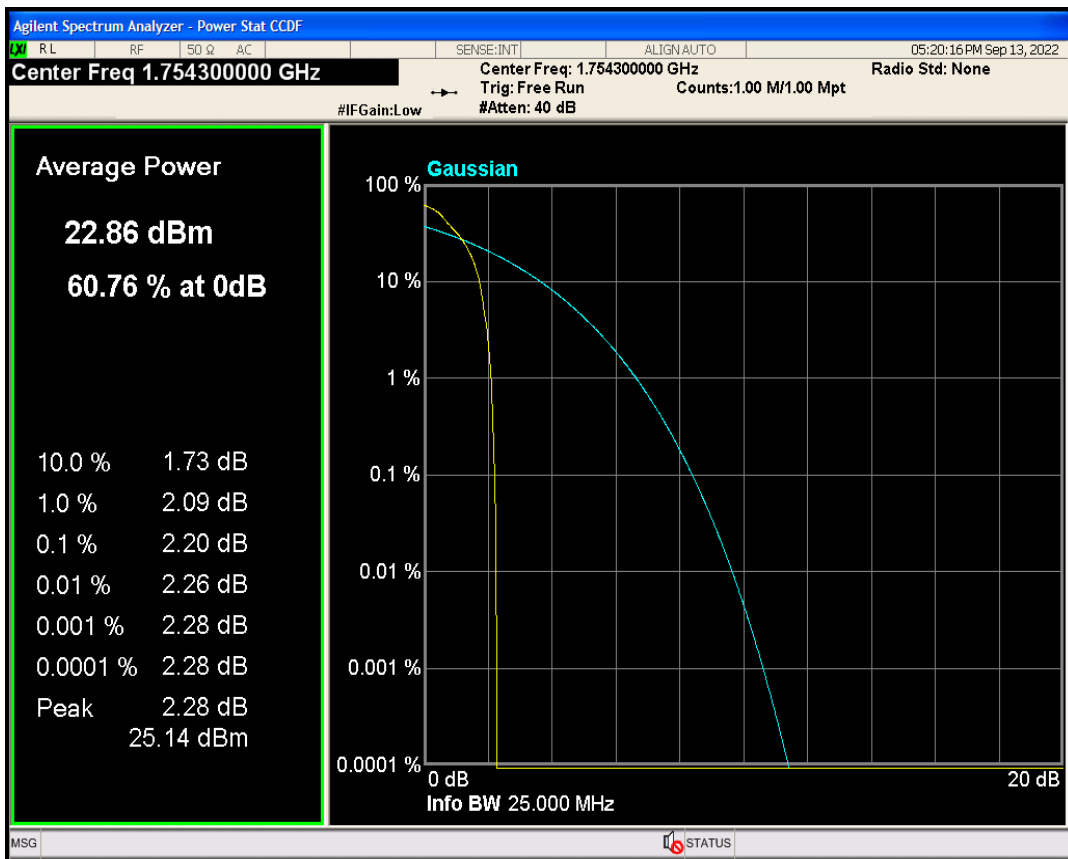
Band4 QPSK BW=1.4MHz Channel=20175 RB Size=1 Position=#0



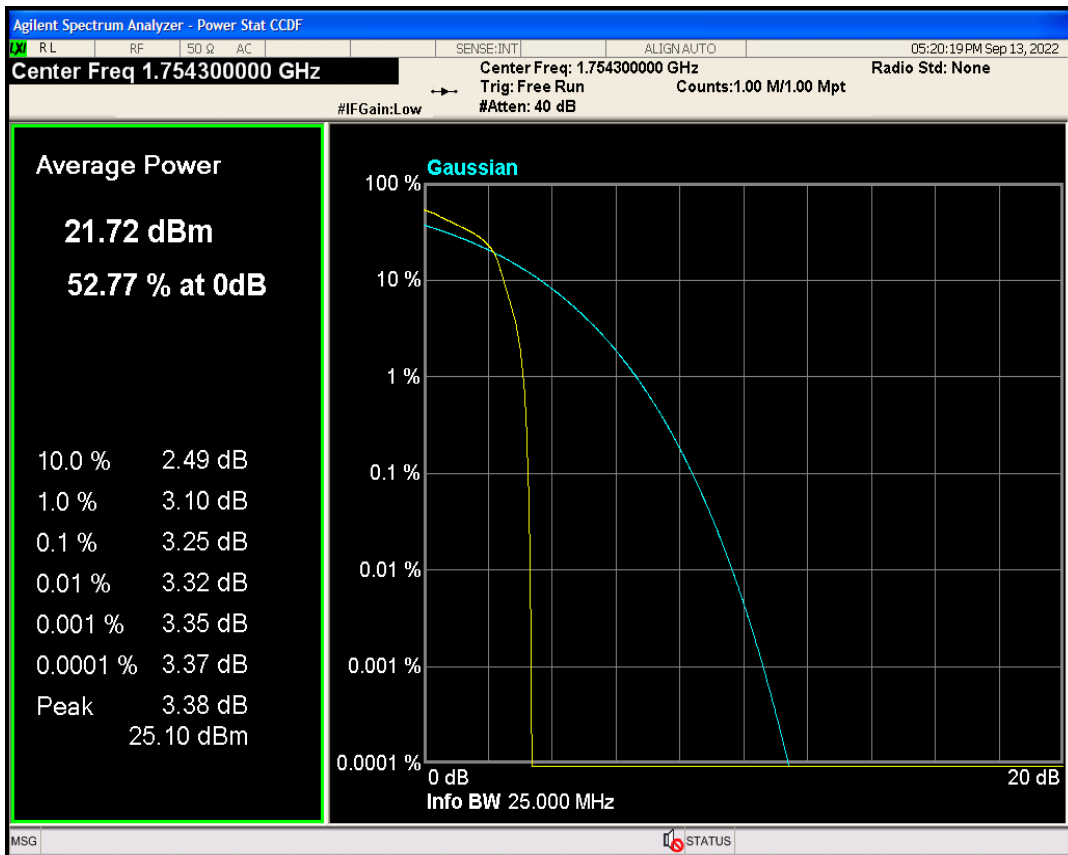
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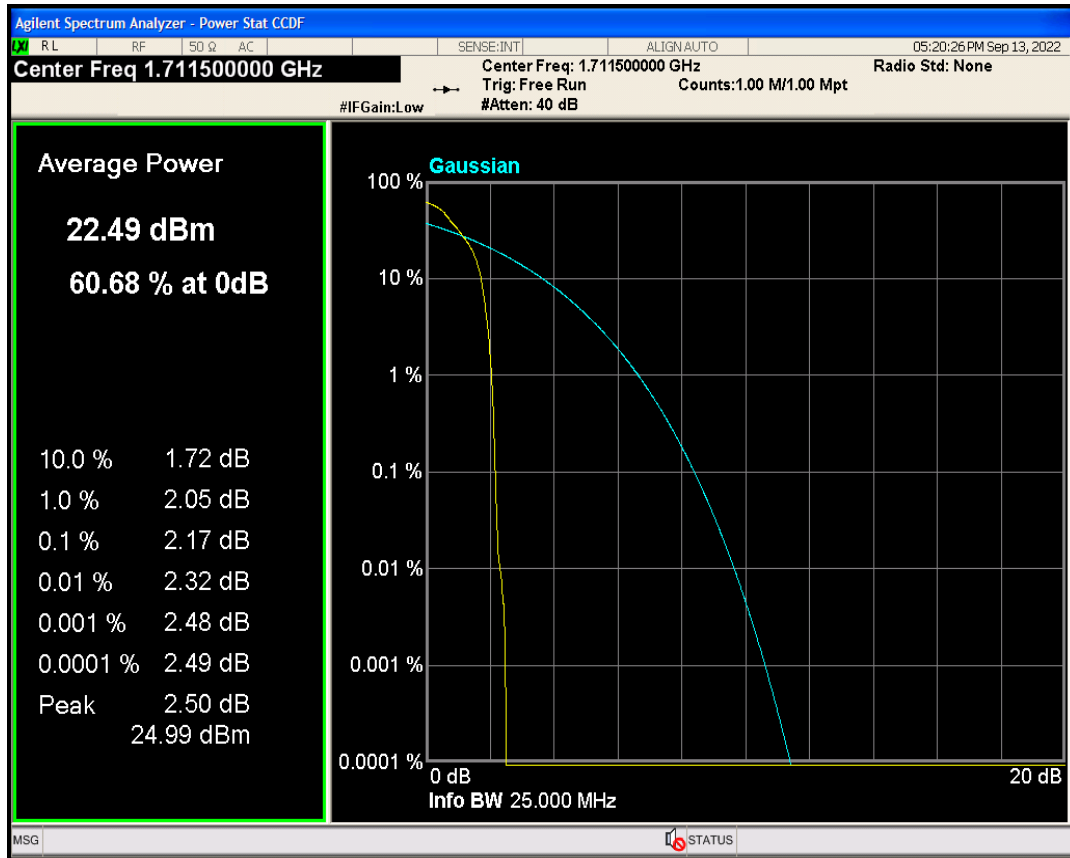
Band4 QPSK BW=1.4MHz Channel=20393 RB Size=1 Position=#0



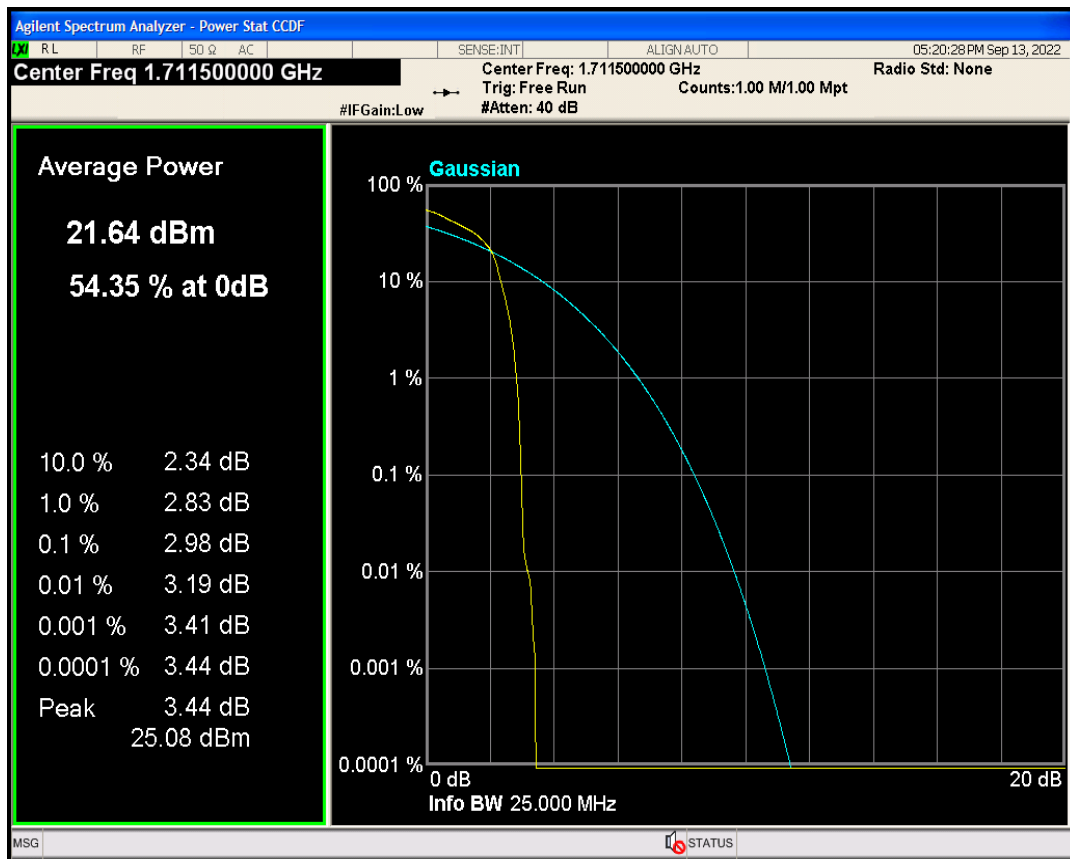
Band4 QAM16 BW=1.4MHz Channel=20393 RB Size=1 Position=#0



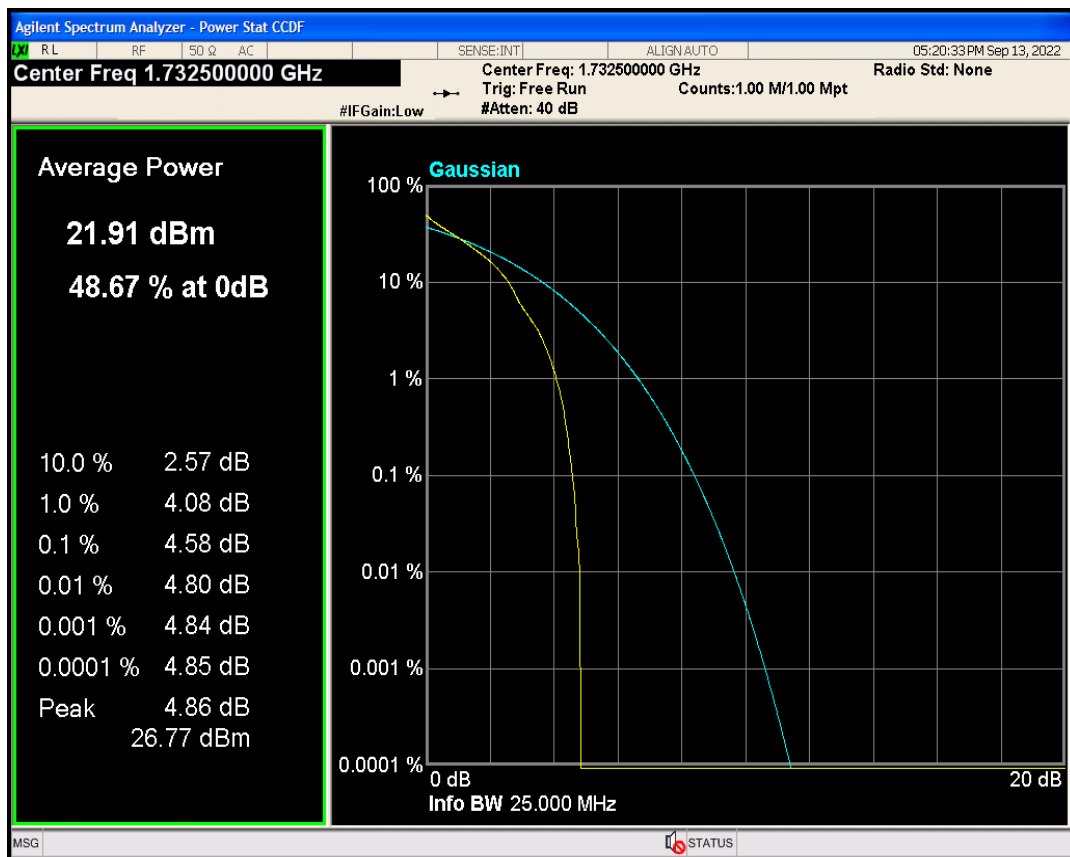
Band4 QPSK BW=3MHz Channel=19965 RB Size=1 Position=#0



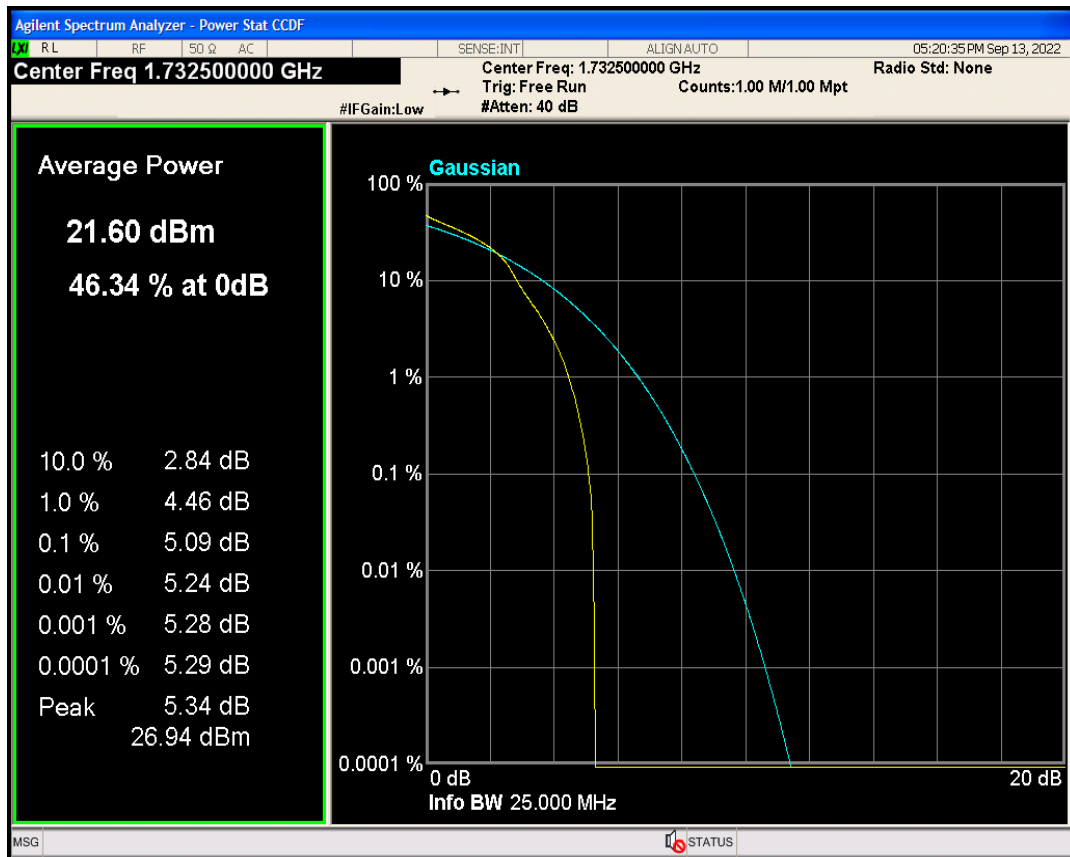
Band4 QAM16 BW=3MHz Channel=19965 RB Size=1 Position=#0



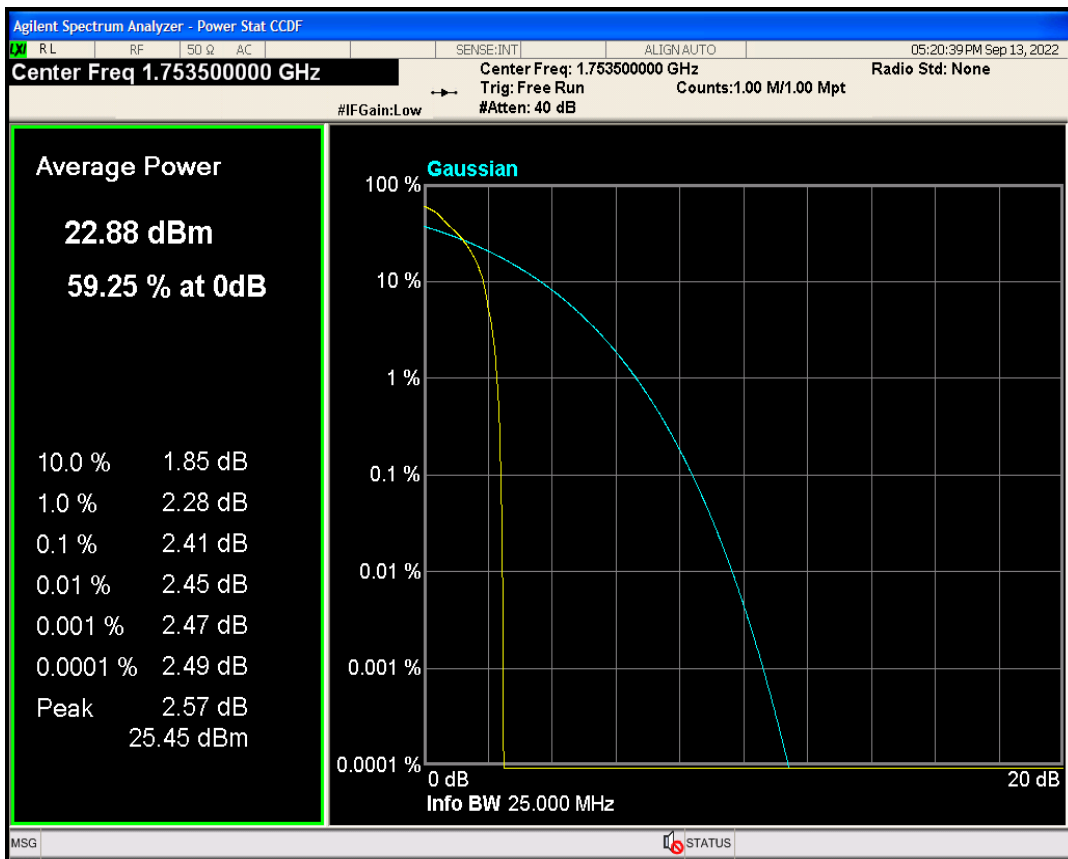
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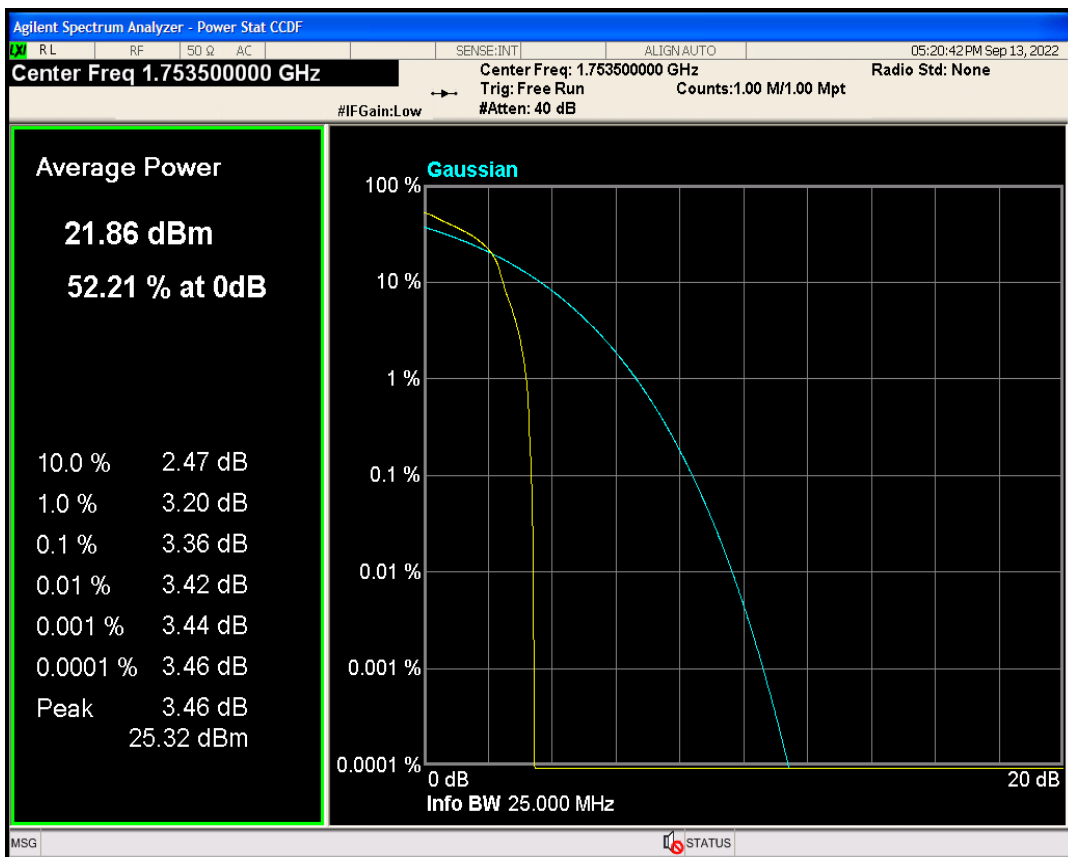
Band4 QAM16 BW=3MHz Channel=20175 RB Size=1 Position=#0



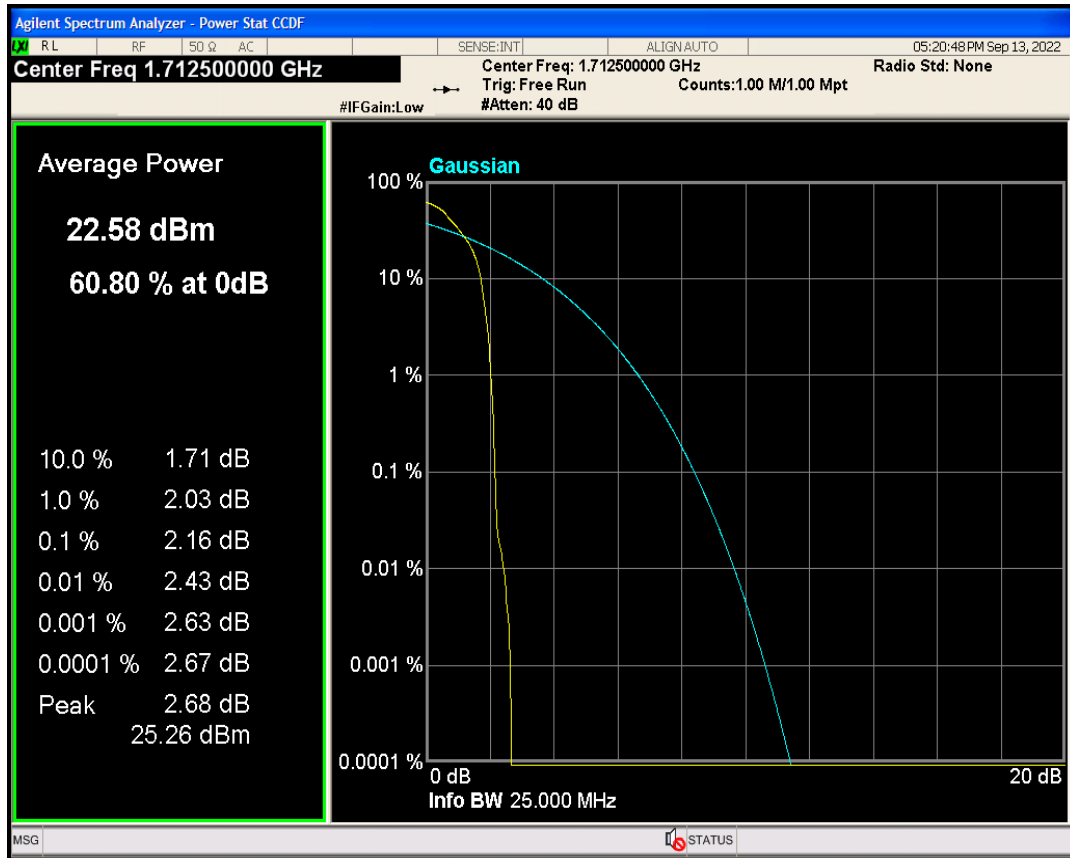
Band4 QPSK BW=3MHz Channel=20385 RB Size=1 Position=#0



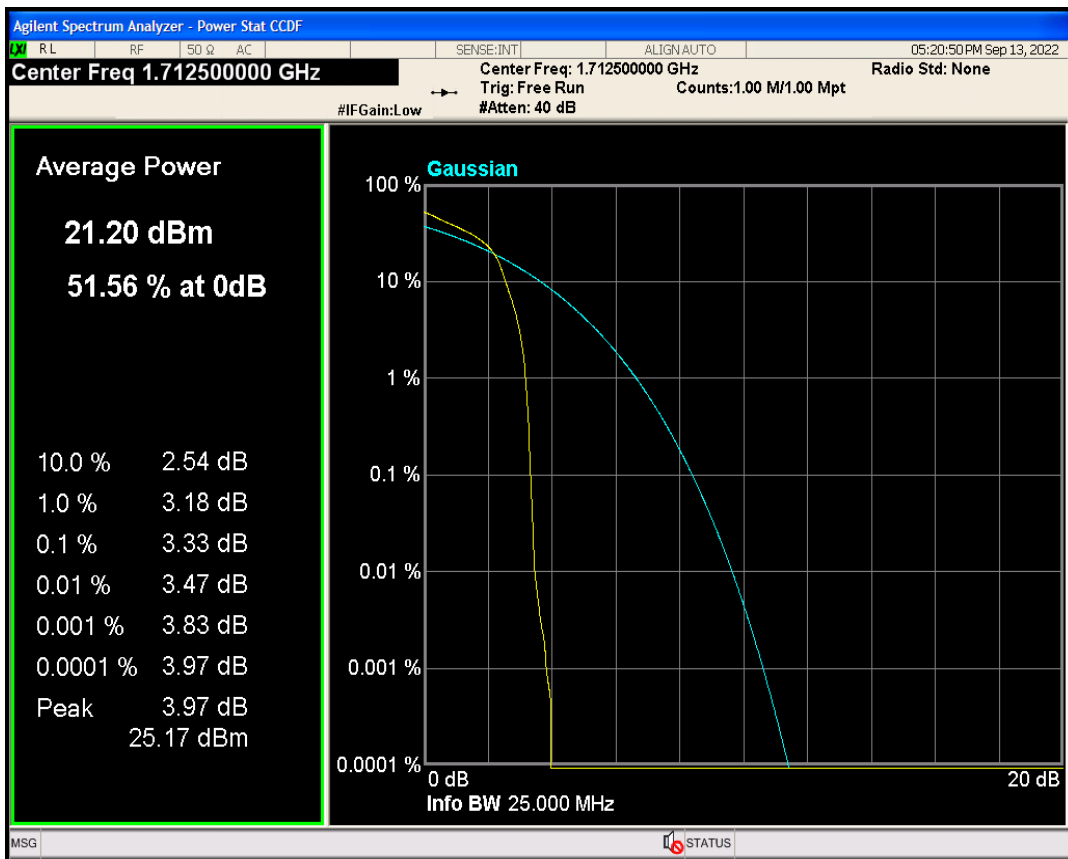
Band4 QAM16 BW=3MHz Channel=20385 RB Size=1 Position=#0



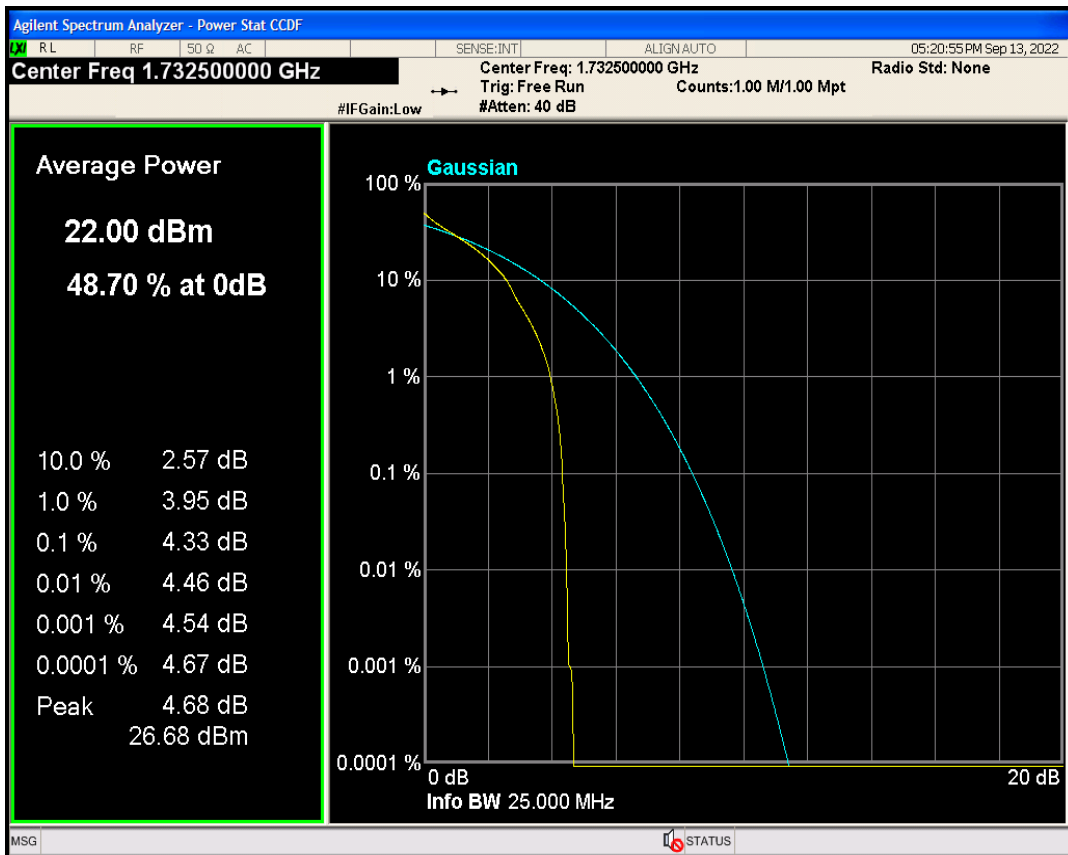
Band4 QPSK BW=5MHz Channel=19975 RB Size=1 Position=#0



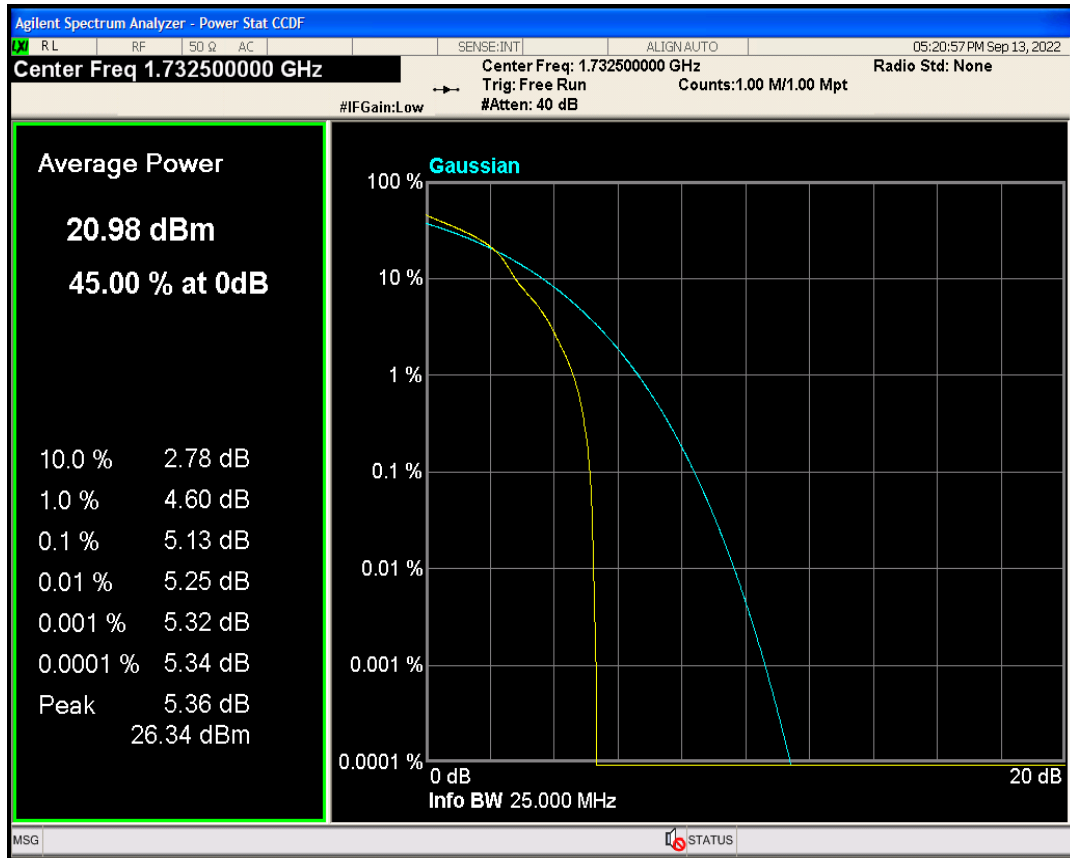
Band4 QAM16 BW=5MHz Channel=19975 RB Size=1 Position=#0



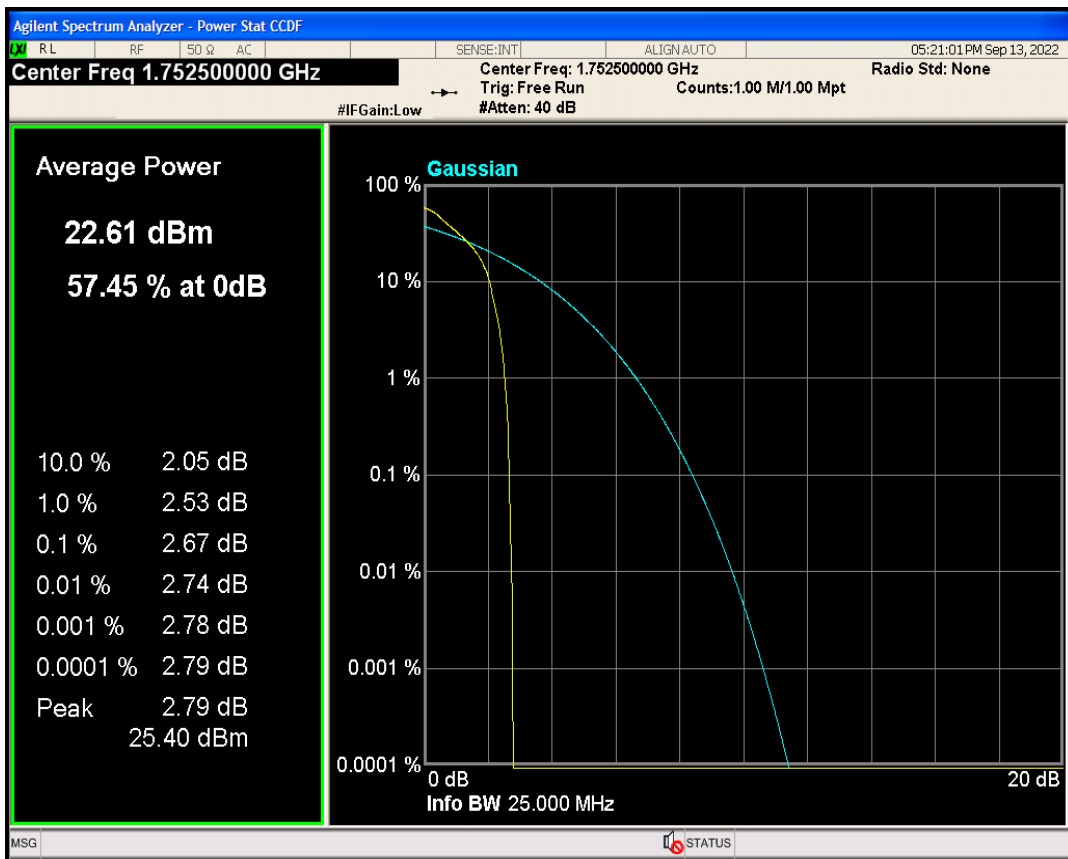
Band4 QPSK BW=5MHz Channel=20175 RB Size=1 Position=#0



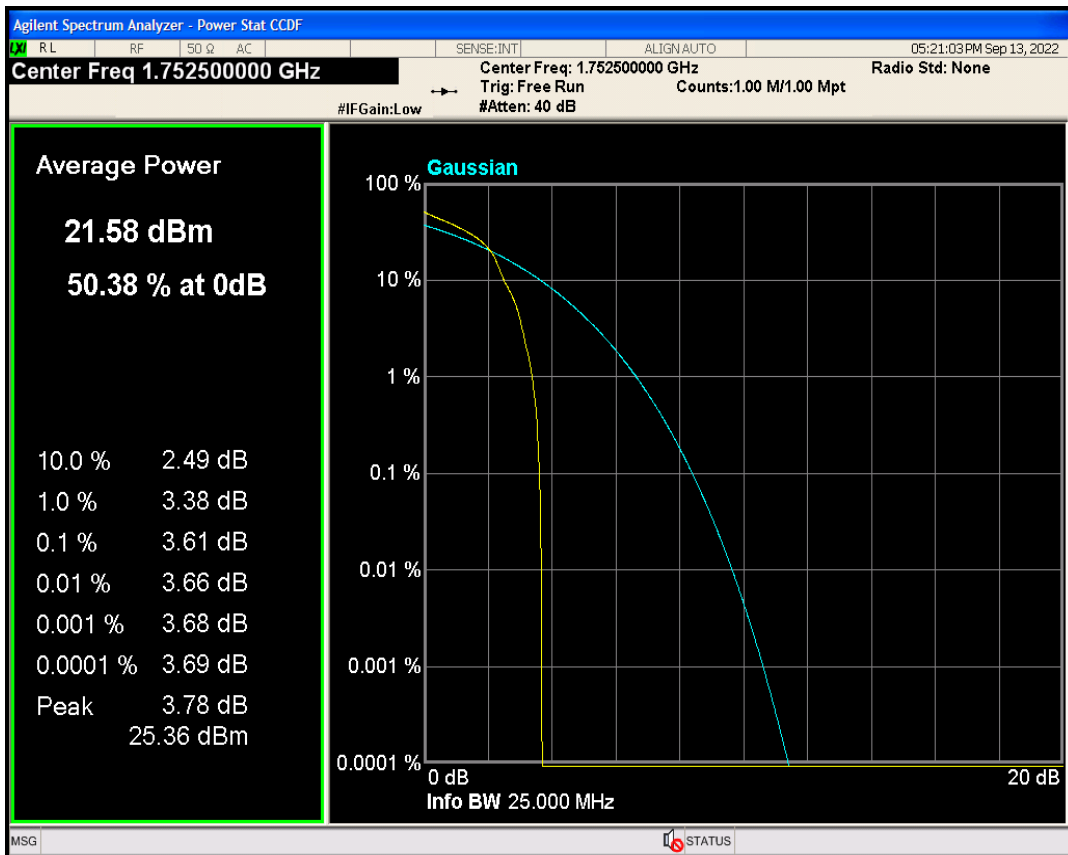
Band4 QAM16 BW=5MHz Channel=20175 RB Size=1 Position=#0



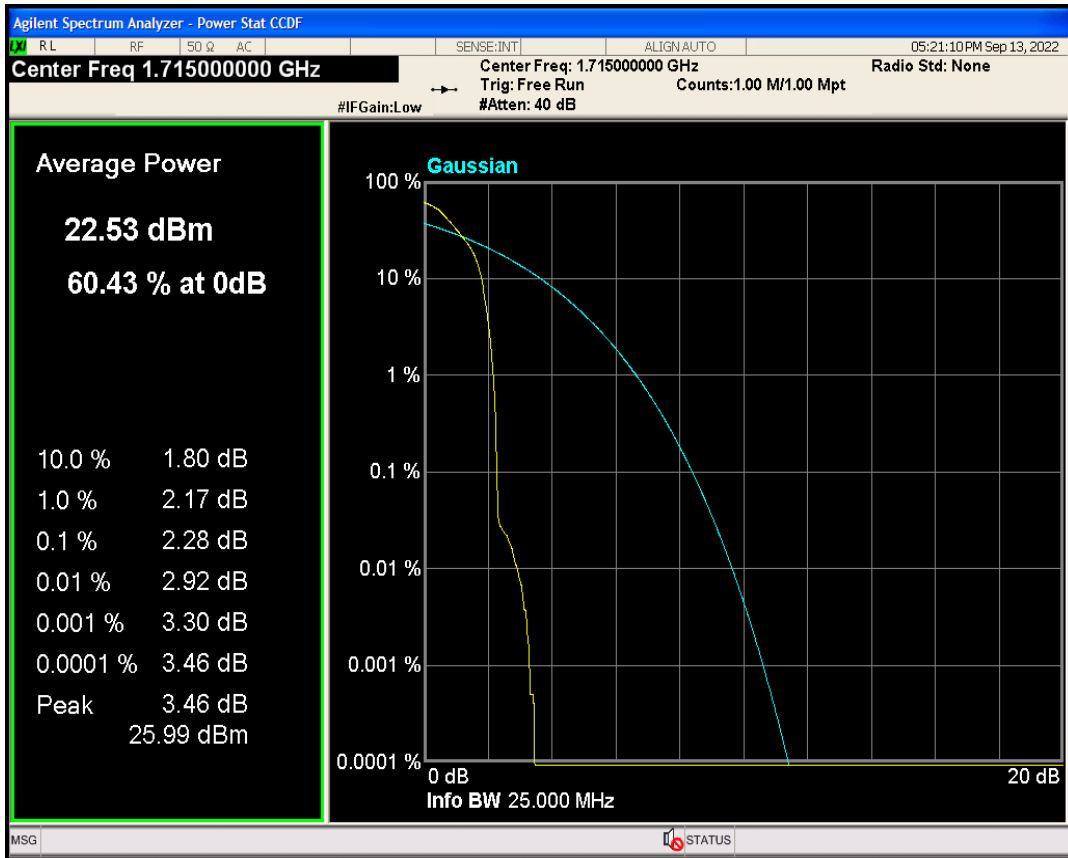
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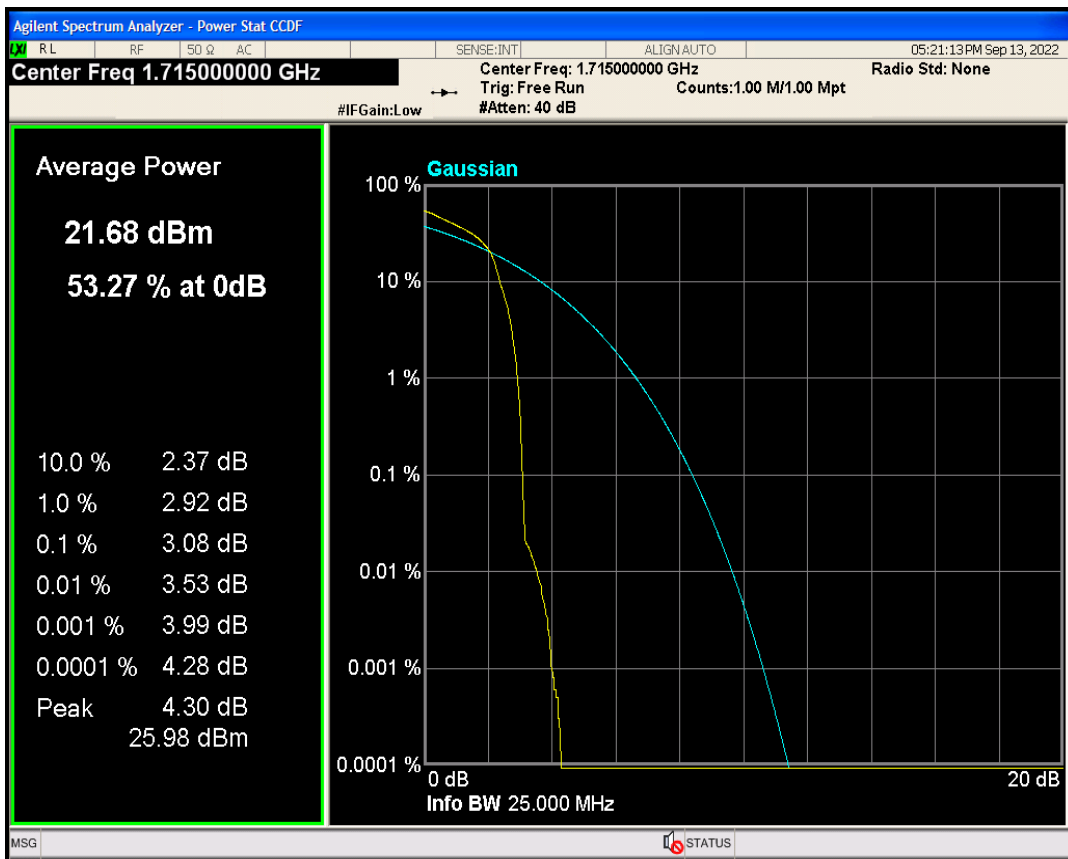
Band4 QAM16 BW=5MHz Channel=20375 RB Size=1 Position=#0



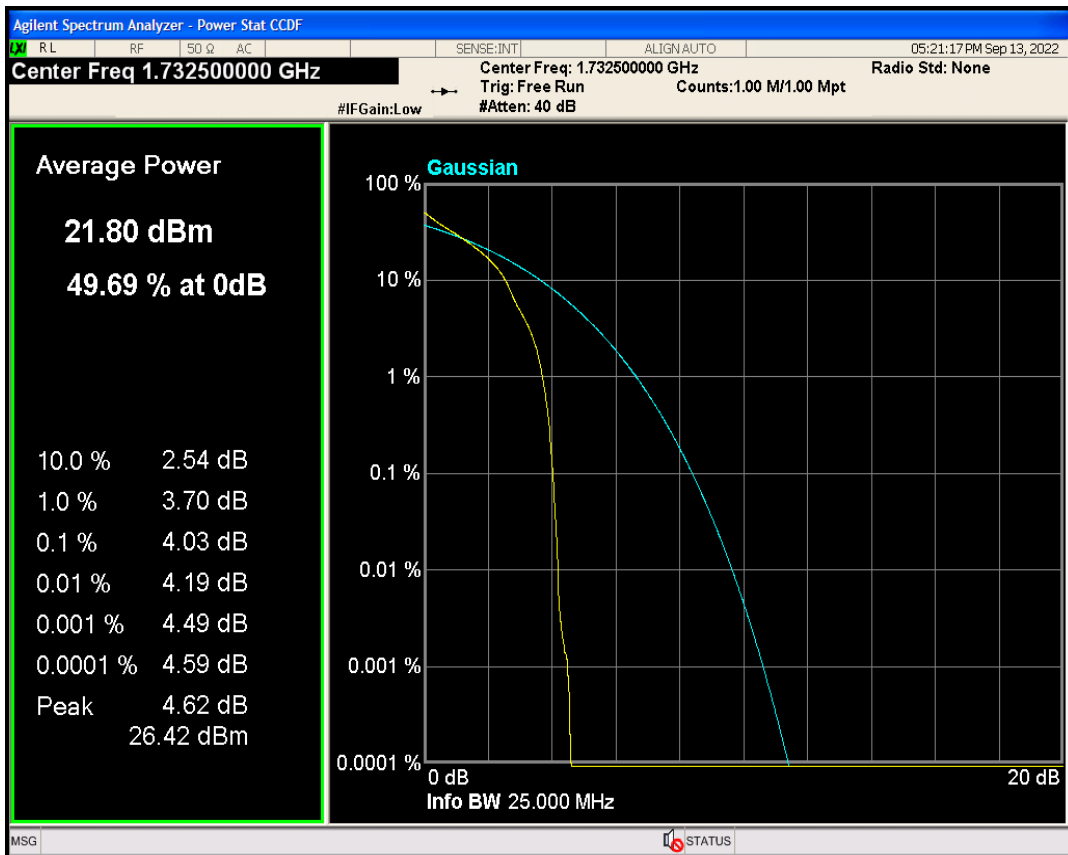
Band4 QPSK BW=10MHz Channel=20000 RB Size=1 Position=#0



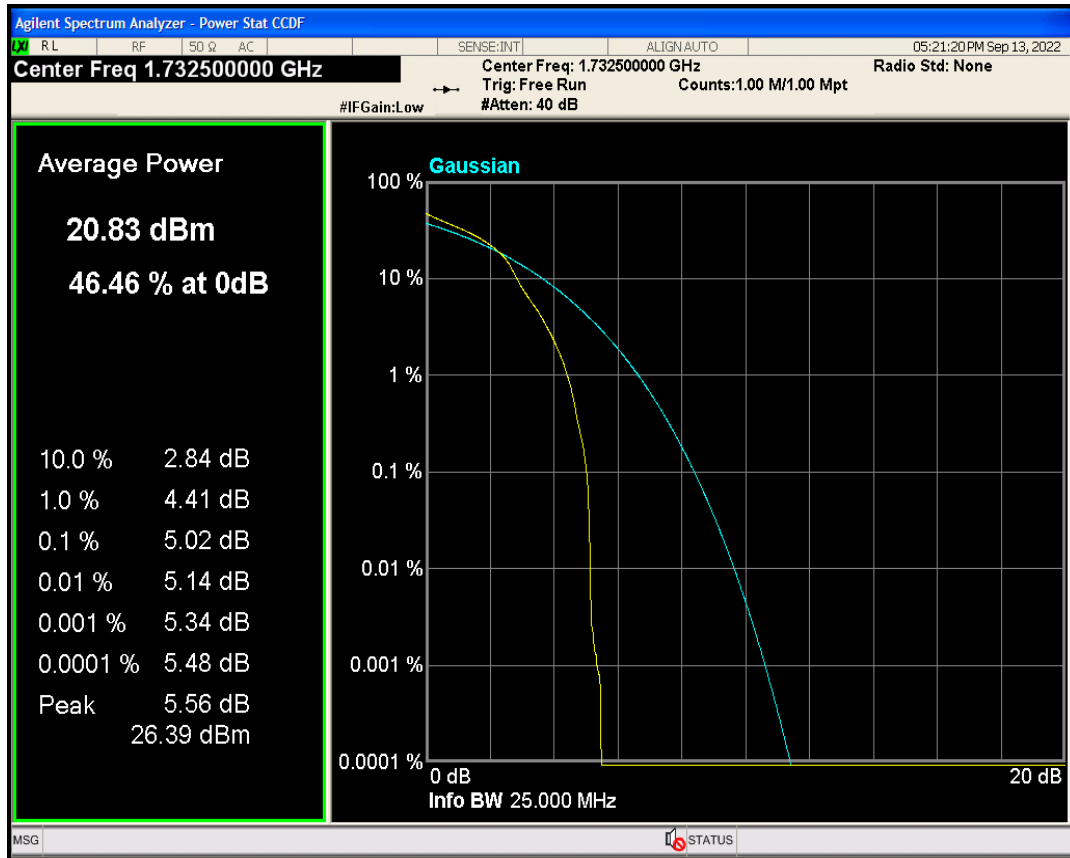
Band4 QAM16 BW=10MHz Channel=20000 RB Size=1 Position=#0



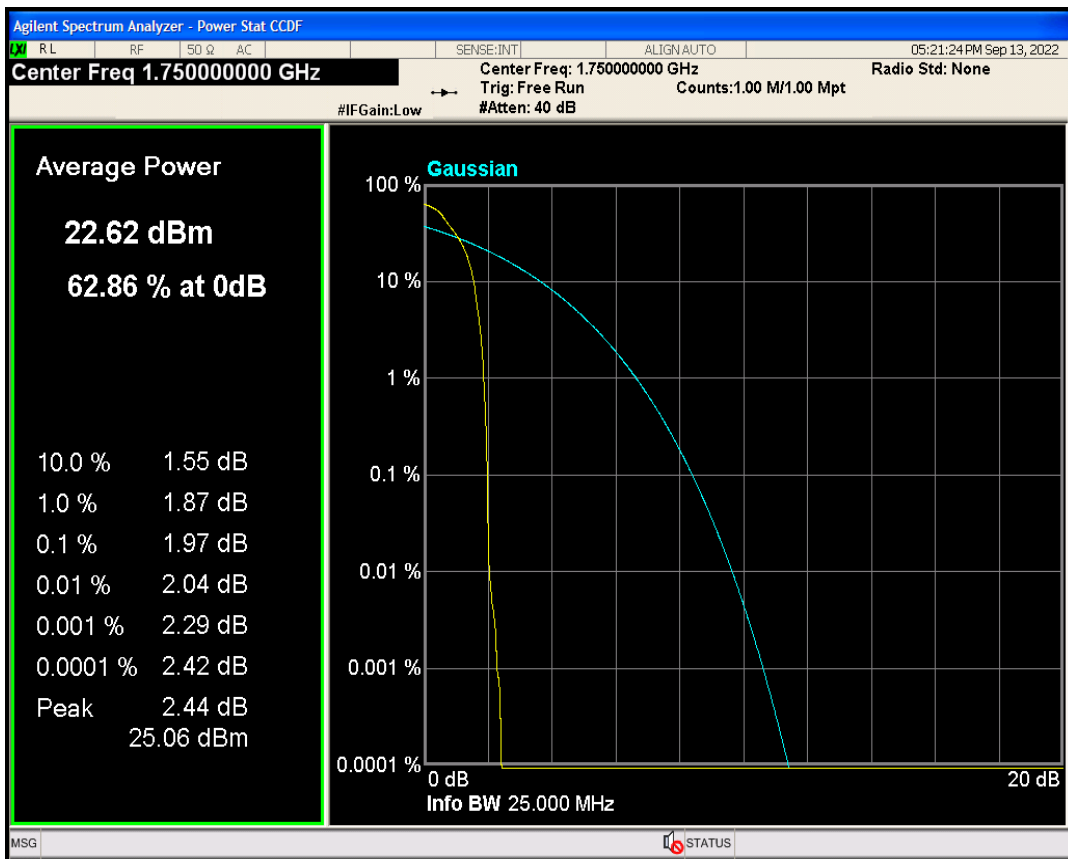
Band4 QPSK BW=10MHz Channel=20175 RB Size=1 Position=#0



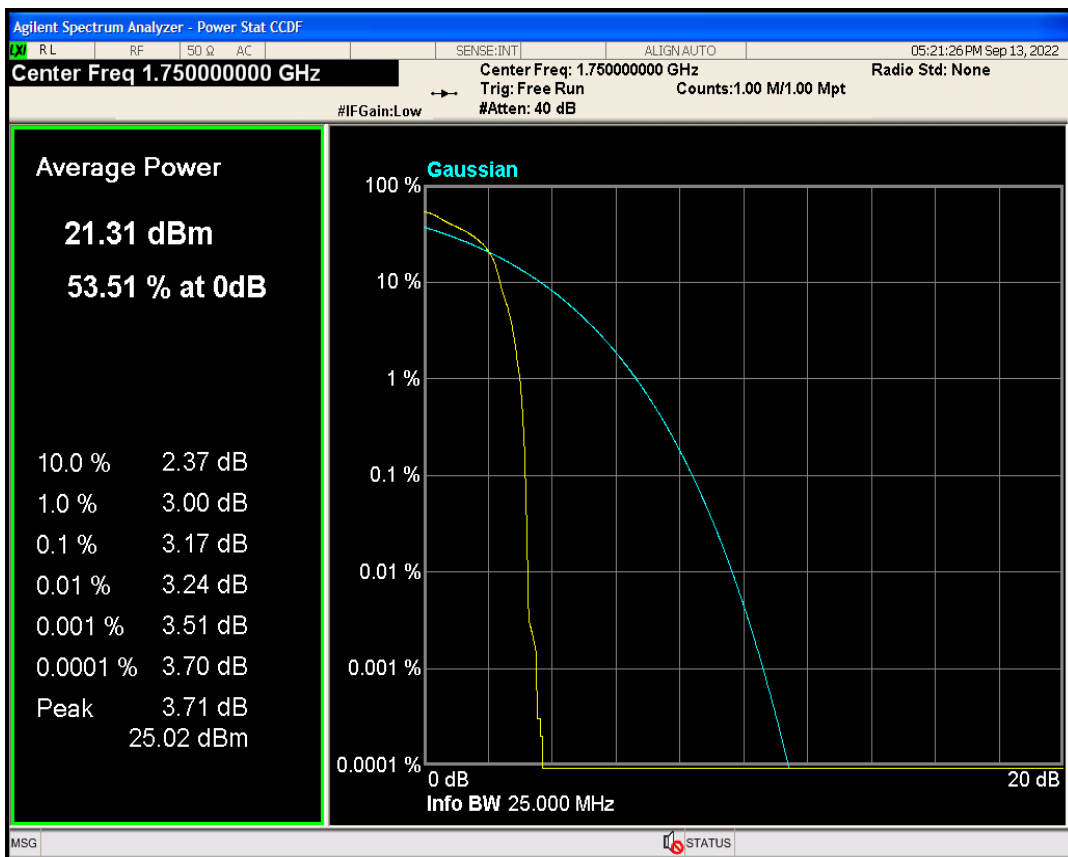
Band4 QAM16 BW=10MHz Channel=20175 RB Size=1 Position=#0



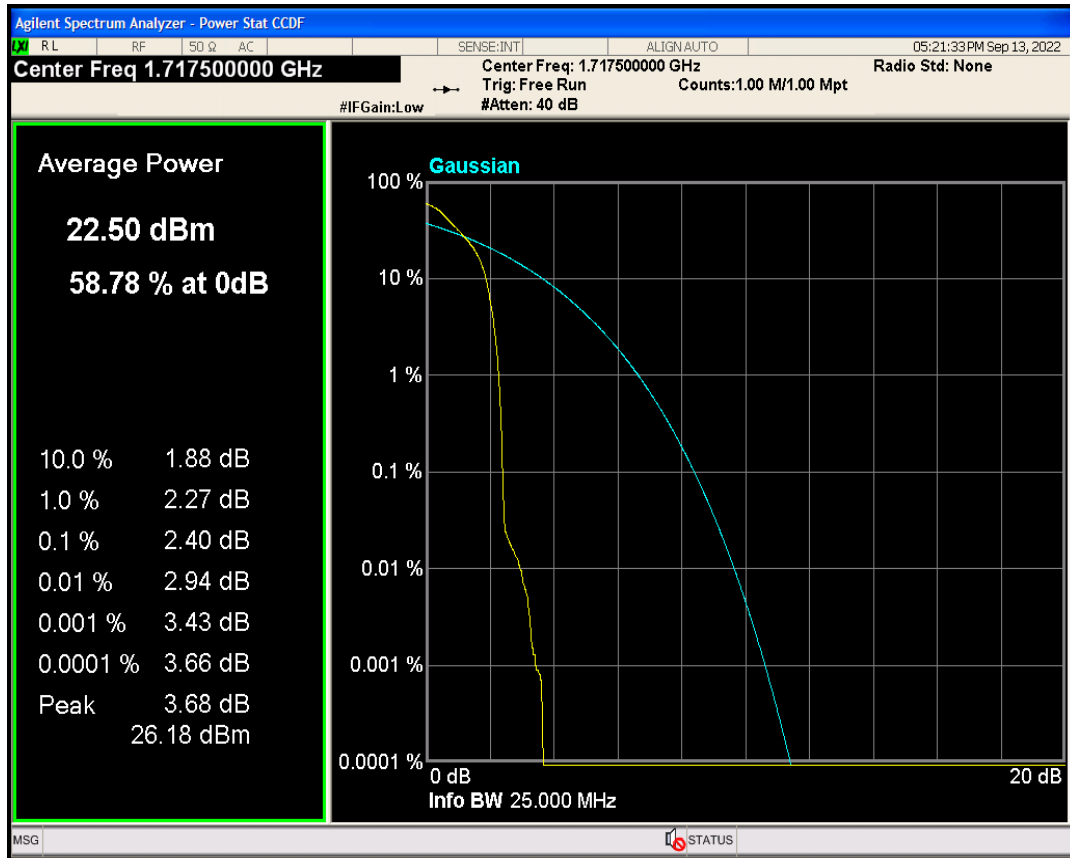
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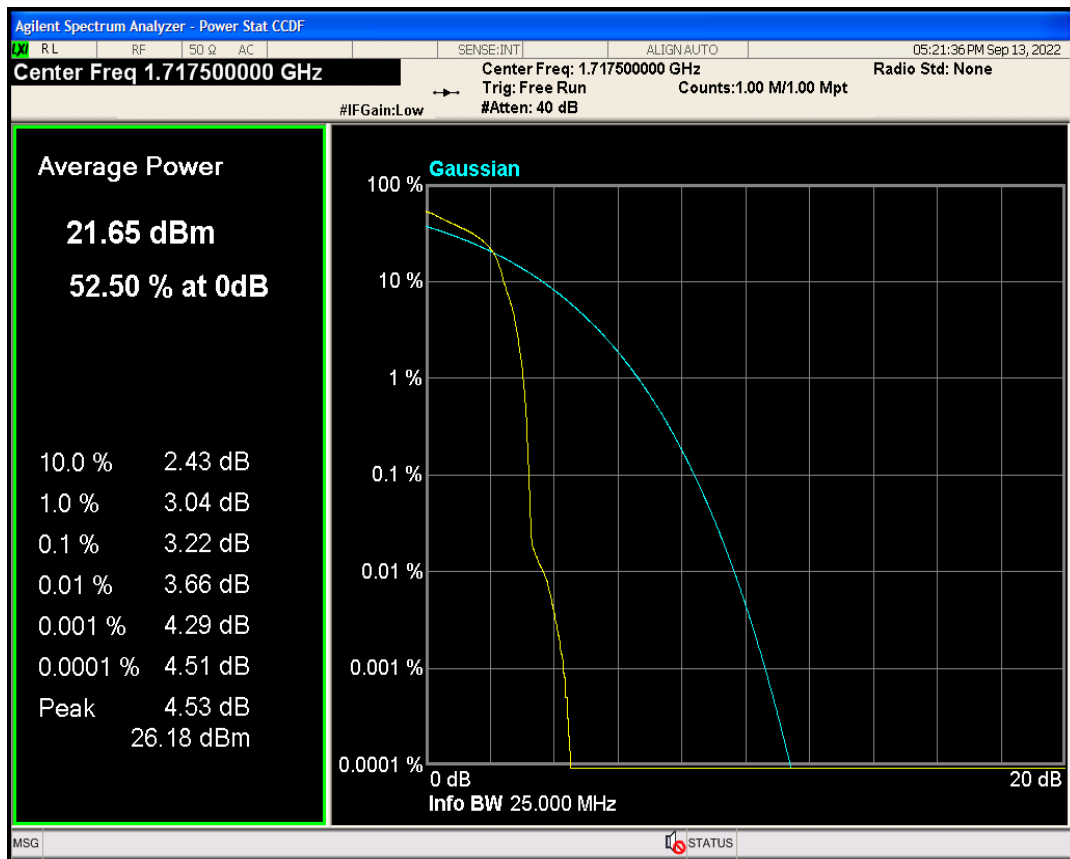
Band4 QAM16 BW=10MHz Channel=20350 RB Size=1 Position=#0



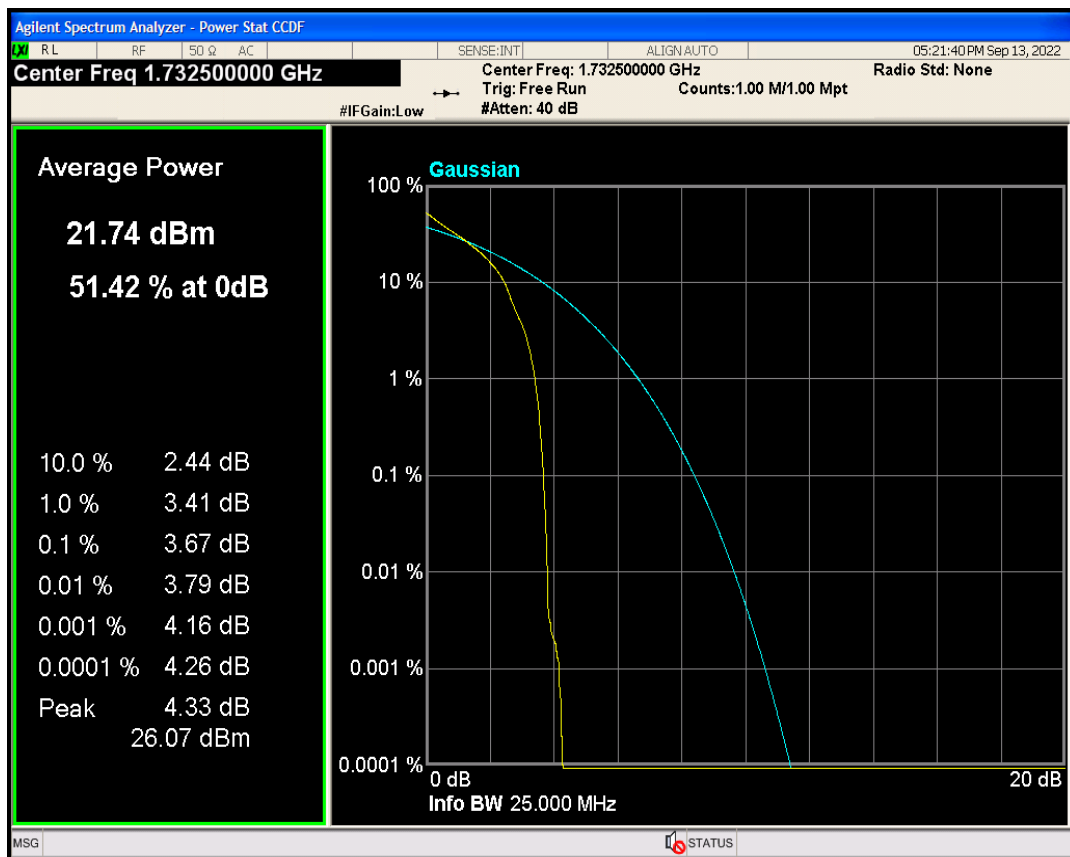
Band4 QPSK BW=15MHz Channel=20025 RB Size=1 Position=#0



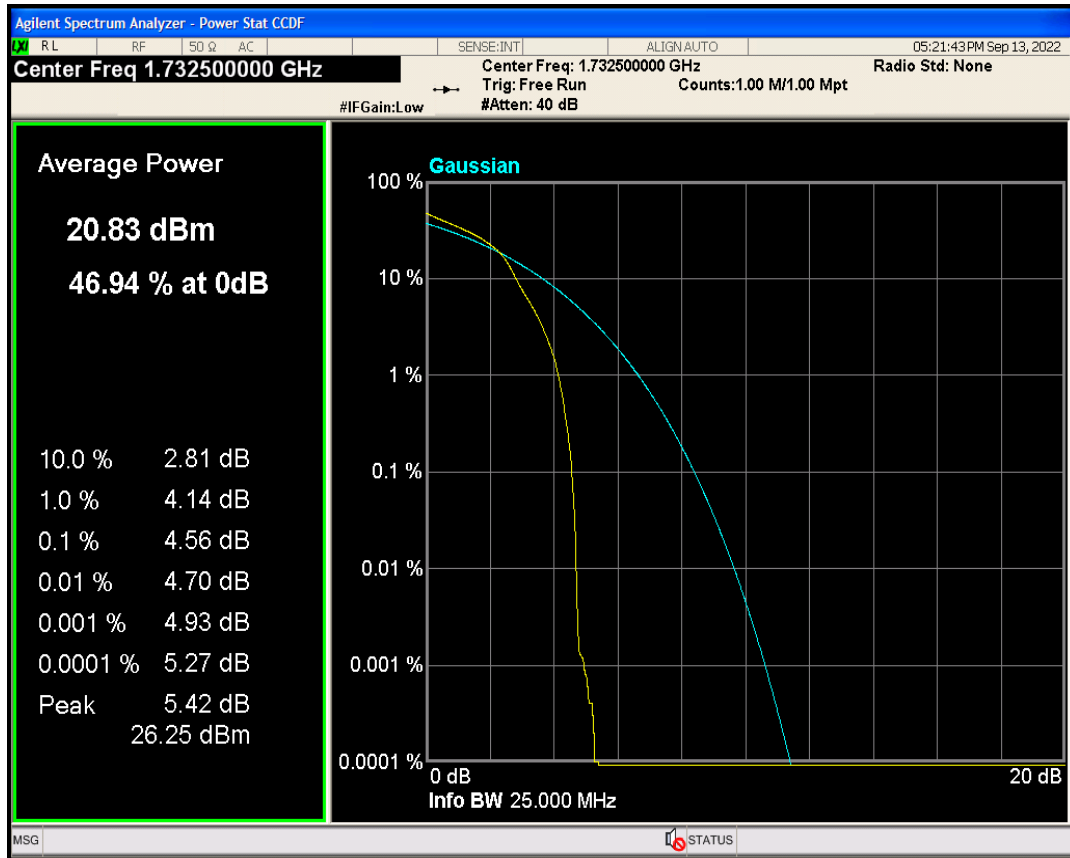
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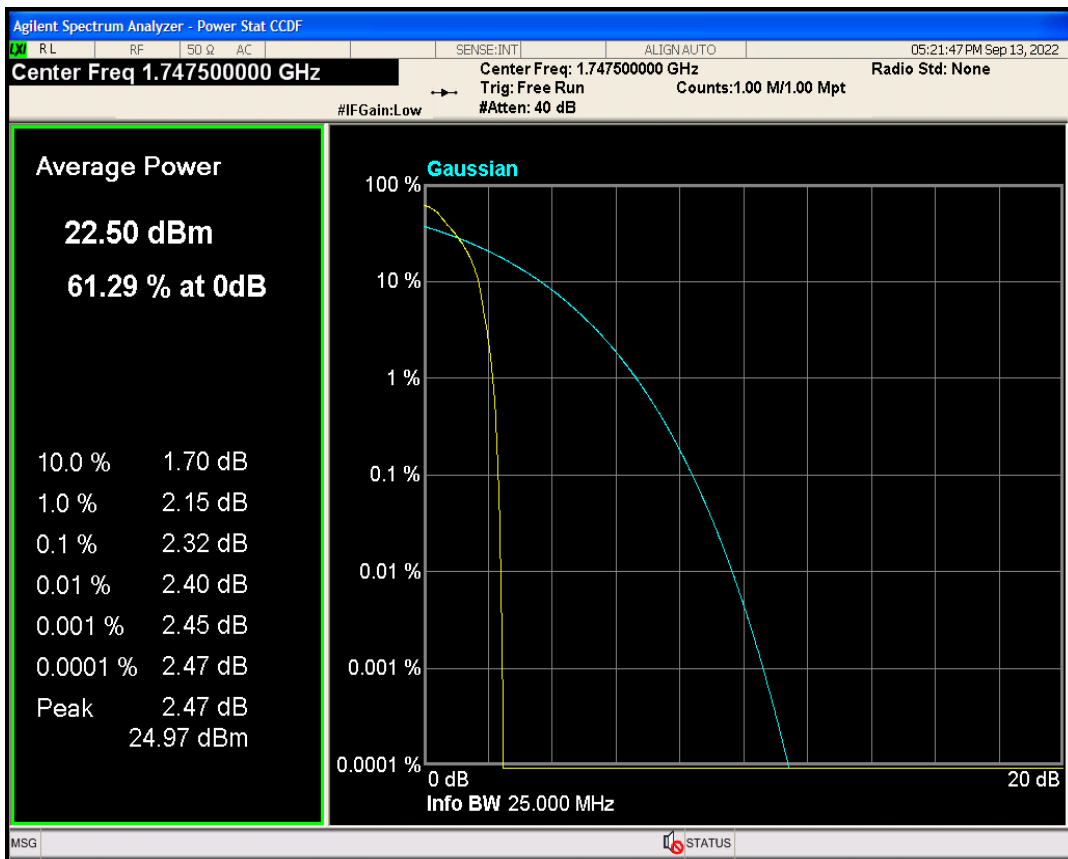
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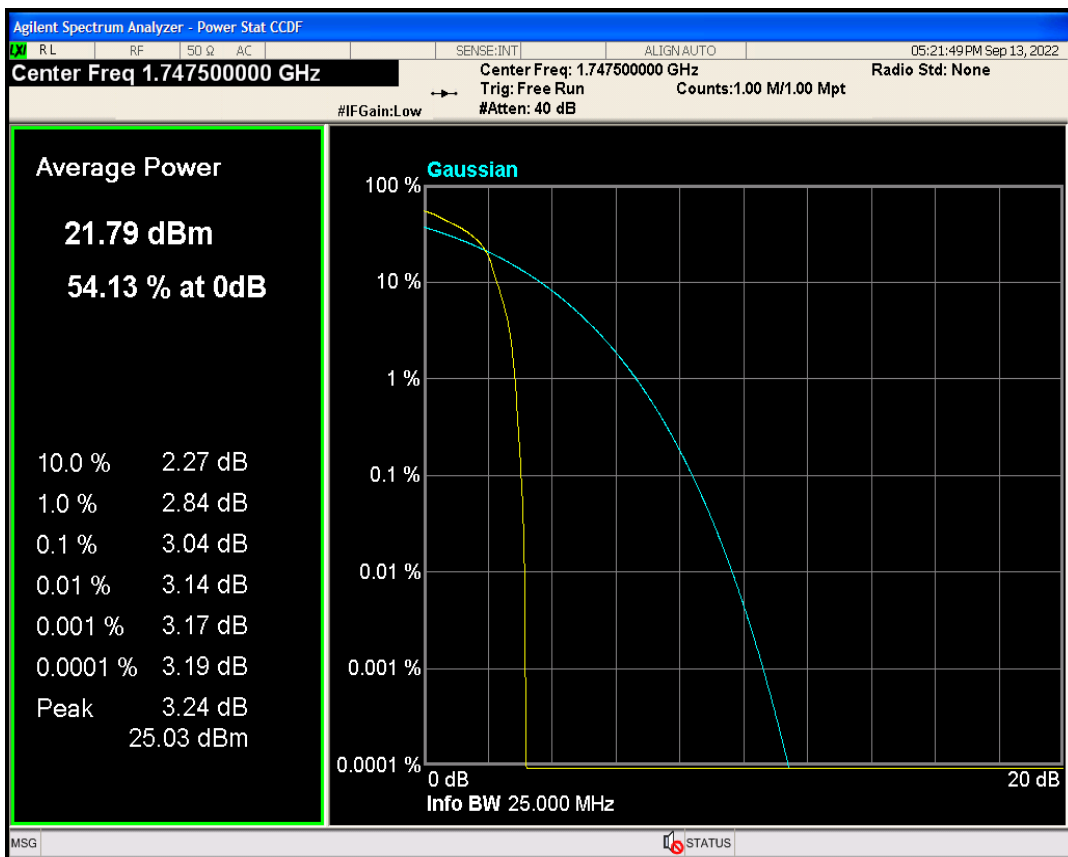
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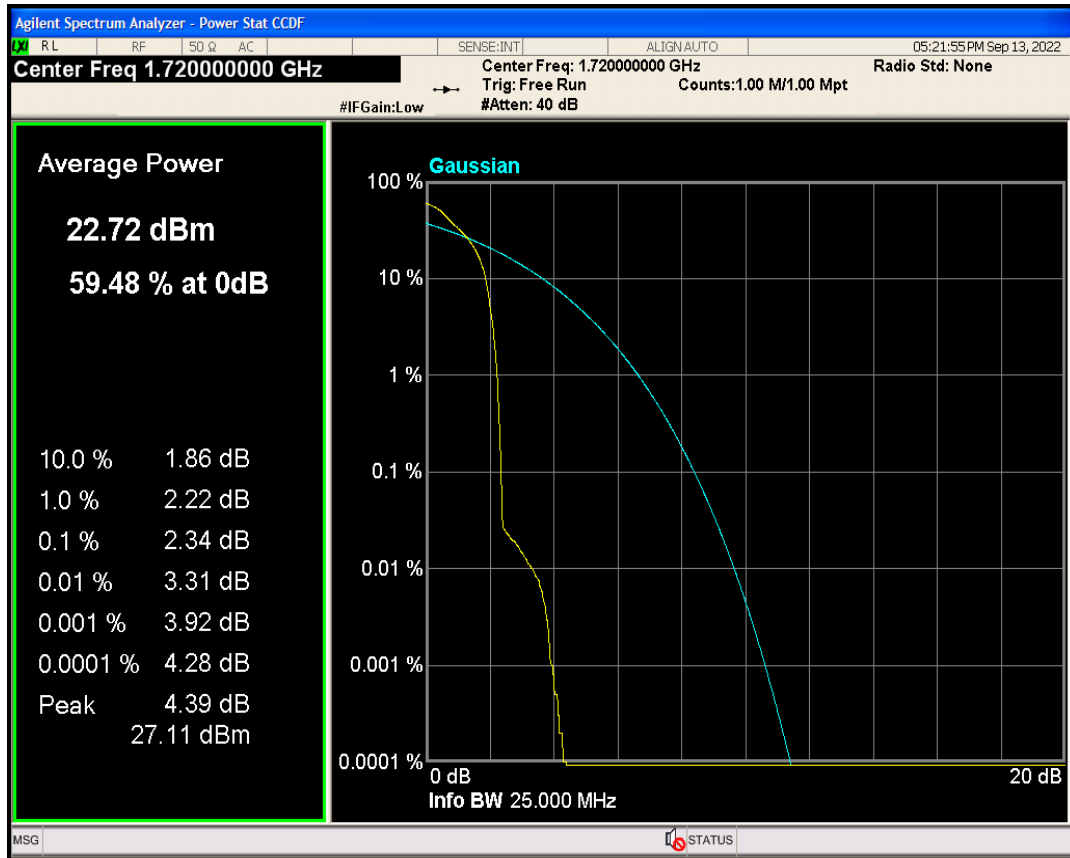
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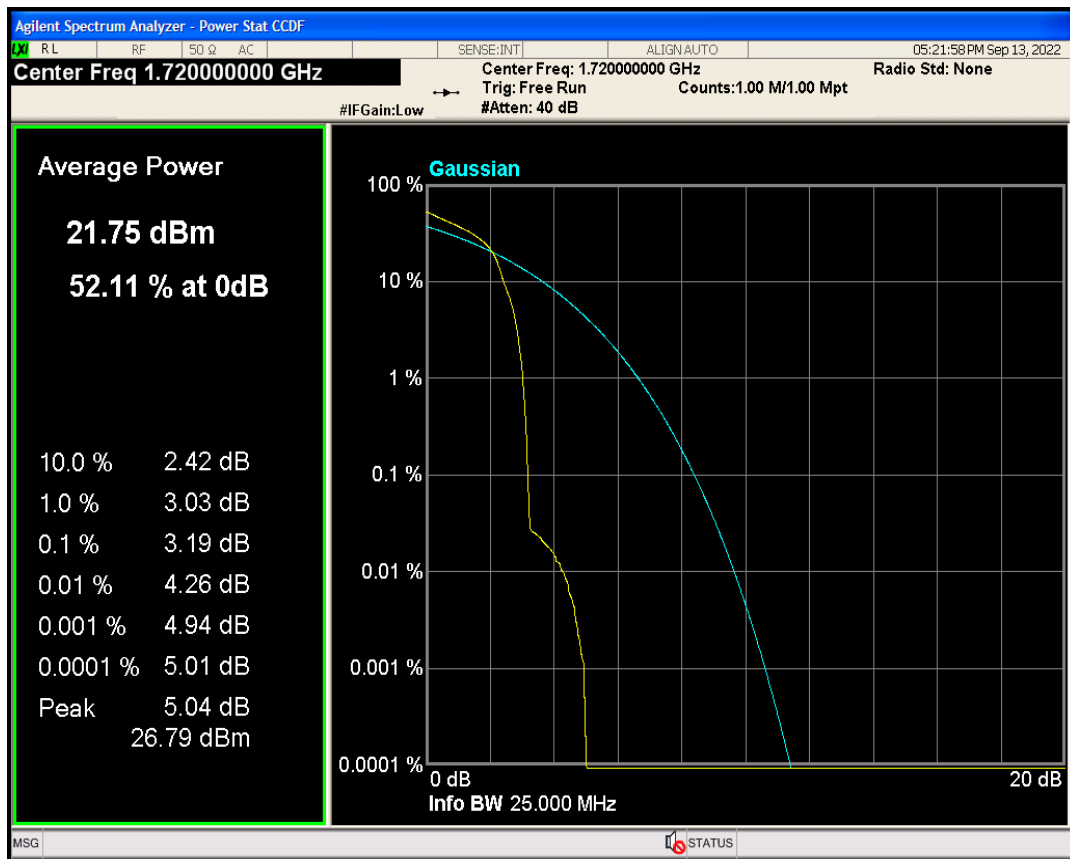
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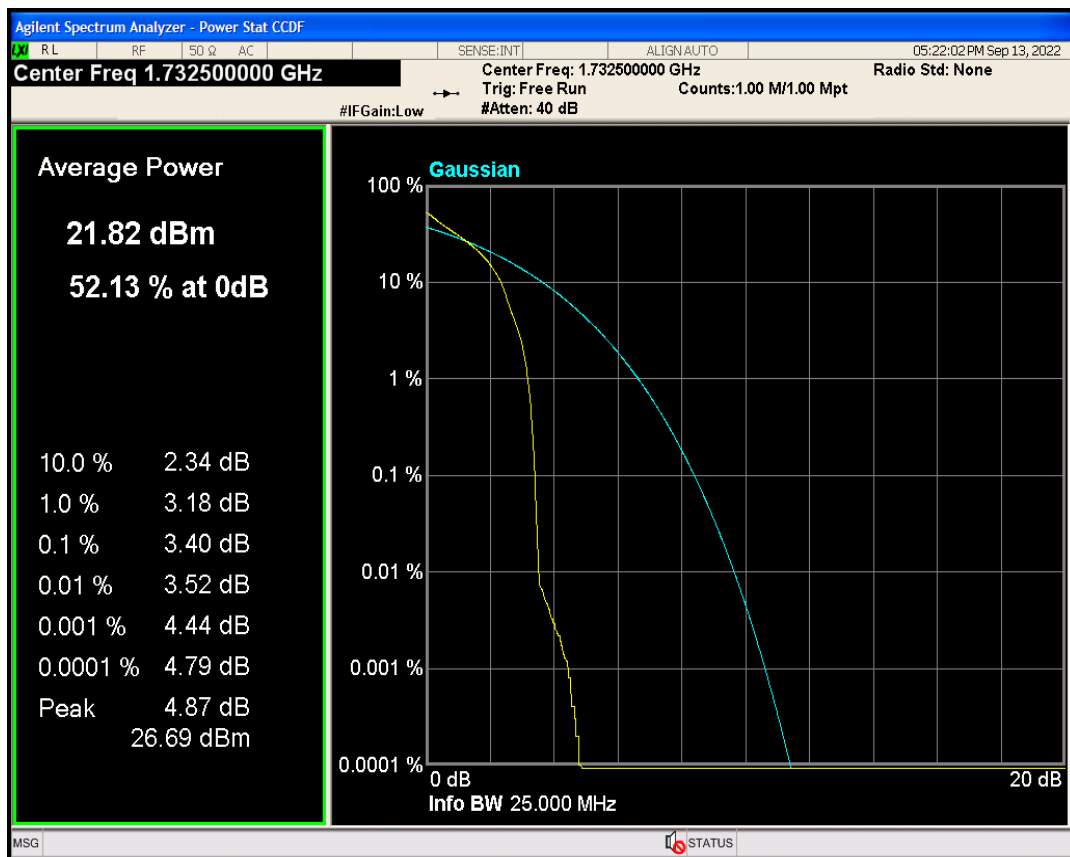
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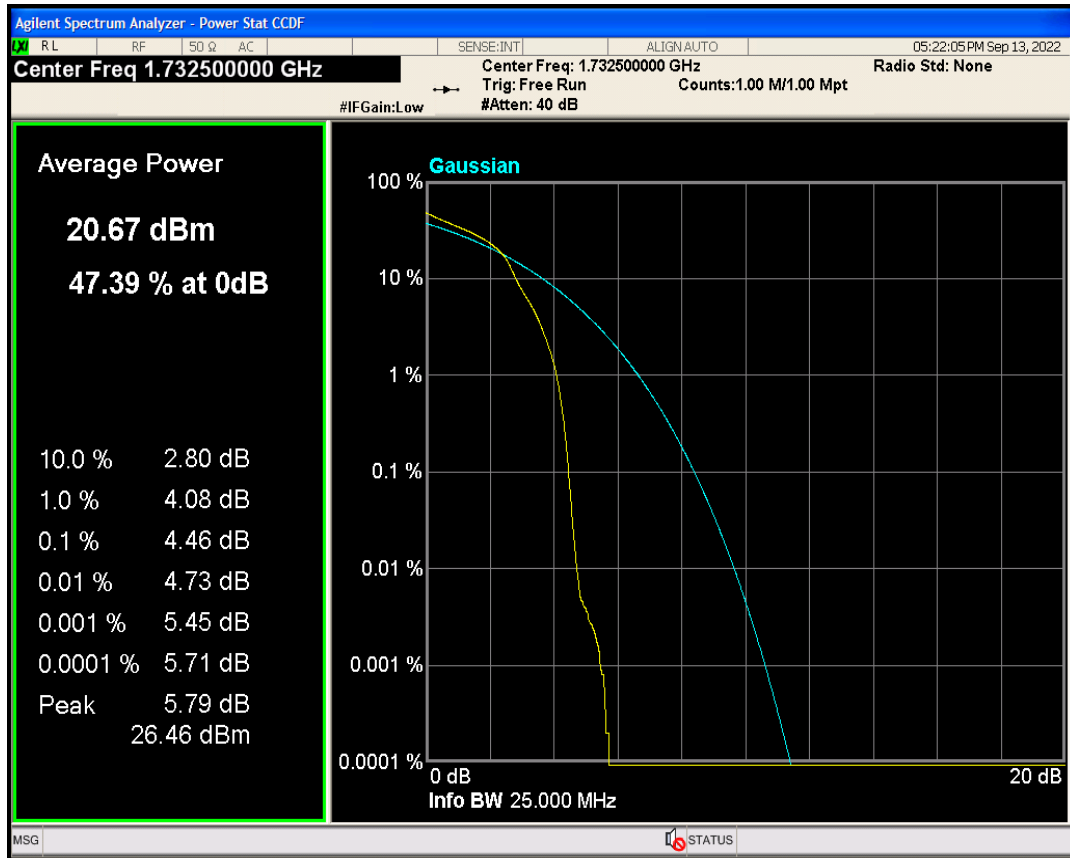
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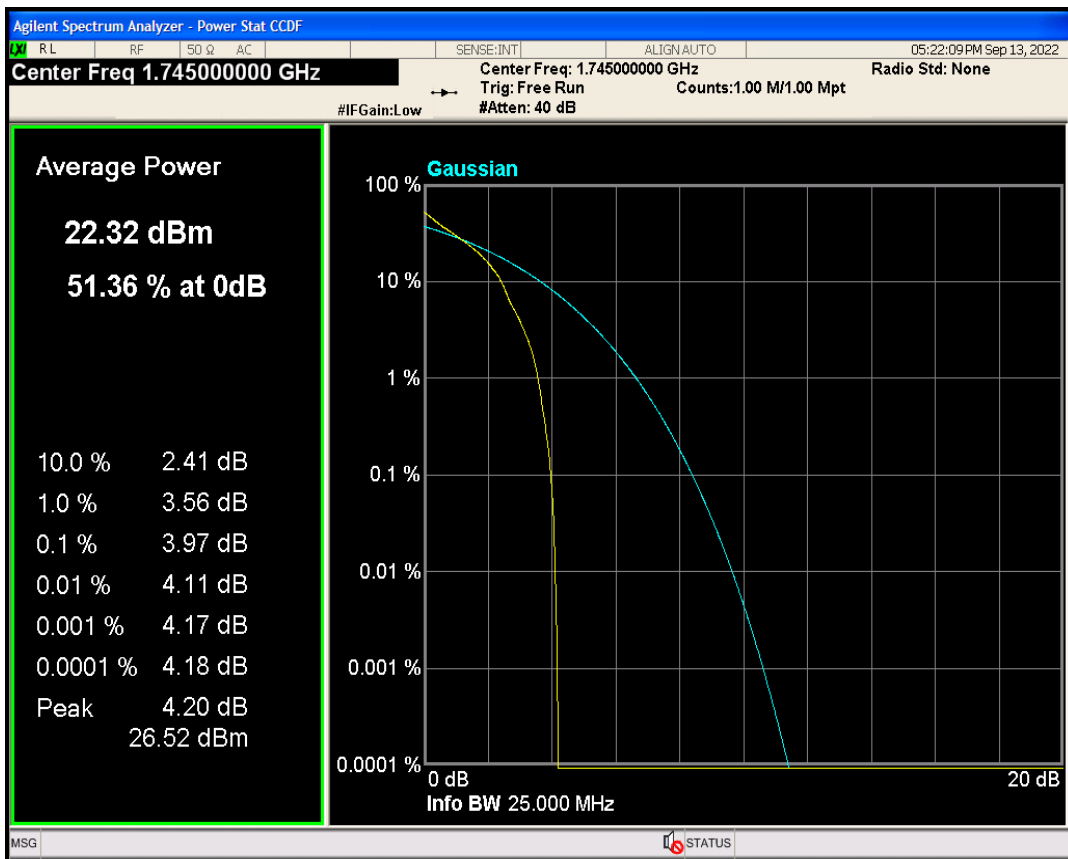
Band4 QPSK BW=20MHz Channel=20175 RB Size=1 Position=#0



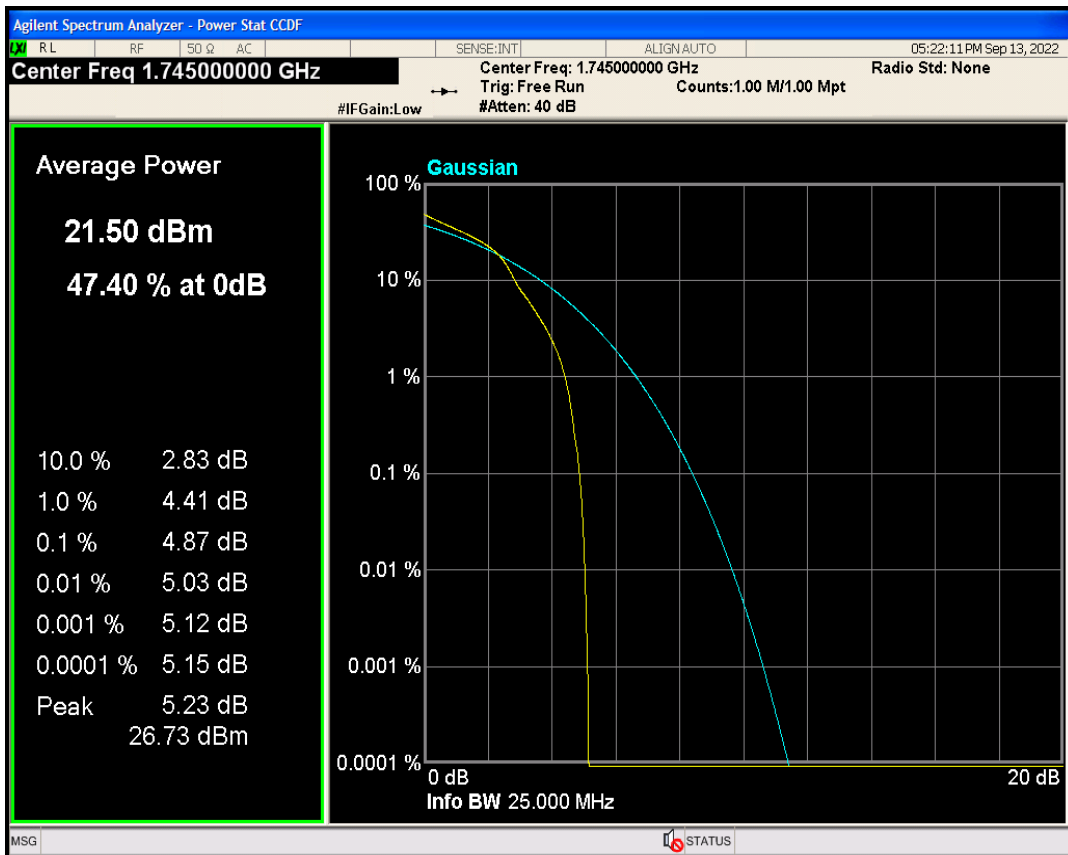
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Band4 QPSK BW=20MHz Channel=20300 RB Size=1 Position=#0



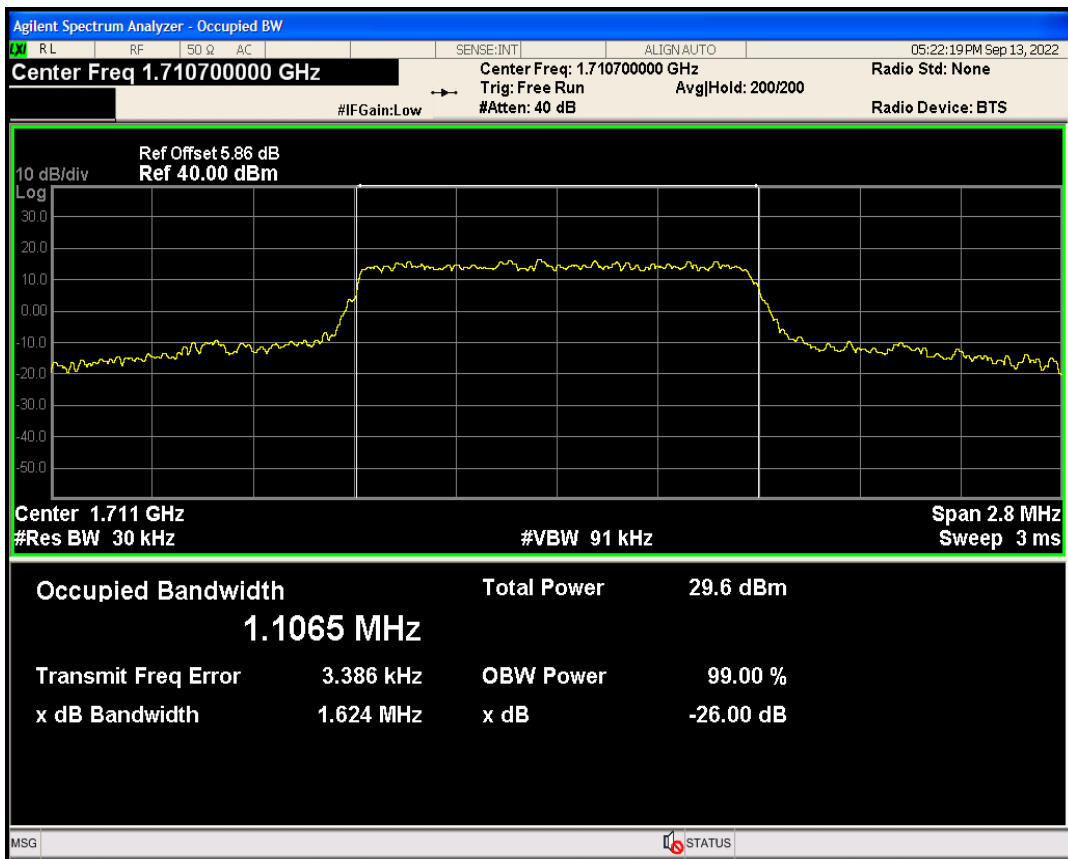
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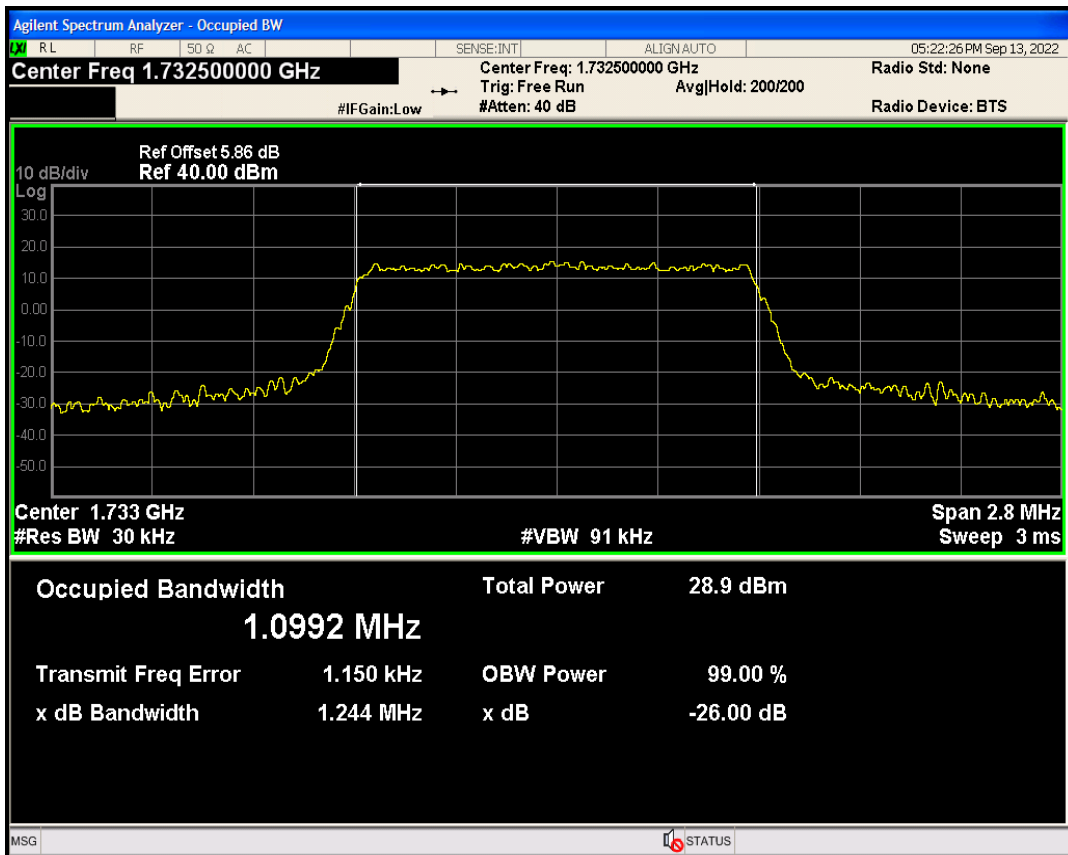
## Appendix 4. Occupied bandwidth

| Band  | Bandwidth (MHz) | UL Channel | RB Size | RB Position | Modulation | 99% OBW (MHz) | -26dB EBW (MHz) | Verdict |
|-------|-----------------|------------|---------|-------------|------------|---------------|-----------------|---------|
| Band4 | 1.4             | 19957      | 6       | #0          | QPSK       | 1.106         | 1.624           | PASS    |
| Band4 | 1.4             | 19957      | 6       | #0          | QAM16      | 1.116         | 1.506           | PASS    |
| Band4 | 1.4             | 20175      | 6       | #0          | QPSK       | 1.099         | 1.244           | PASS    |
| Band4 | 1.4             | 20175      | 6       | #0          | QAM16      | 1.096         | 1.247           | PASS    |
| Band4 | 1.4             | 20393      | 6       | #0          | QPSK       | 1.113         | 1.291           | PASS    |
| Band4 | 1.4             | 20393      | 6       | #0          | QAM16      | 1.108         | 1.387           | PASS    |
| Band4 | 3               | 19965      | 15      | #0          | QPSK       | 2.720         | 3.042           | PASS    |
| Band4 | 3               | 19965      | 15      | #0          | QAM16      | 2.711         | 3.052           | PASS    |
| Band4 | 3               | 20175      | 15      | #0          | QPSK       | 2.704         | 3.029           | PASS    |
| Band4 | 3               | 20175      | 15      | #0          | QAM16      | 2.711         | 3.033           | PASS    |
| Band4 | 3               | 20385      | 15      | #0          | QPSK       | 2.718         | 3.059           | PASS    |
| Band4 | 3               | 20385      | 15      | #0          | QAM16      | 2.715         | 3.494           | PASS    |
| Band4 | 5               | 19975      | 25      | #0          | QPSK       | 4.554         | 4.946           | PASS    |
| Band4 | 5               | 19975      | 25      | #0          | QAM16      | 4.515         | 4.979           | PASS    |
| Band4 | 5               | 20175      | 25      | #0          | QPSK       | 4.505         | 4.964           | PASS    |
| Band4 | 5               | 20175      | 25      | #0          | QAM16      | 4.520         | 4.998           | PASS    |
| Band4 | 5               | 20375      | 25      | #0          | QPSK       | 4.515         | 5.030           | PASS    |
| Band4 | 5               | 20375      | 25      | #0          | QAM16      | 4.504         | 5.637           | PASS    |
| Band4 | 10              | 20000      | 50      | #0          | QPSK       | 8.984         | 9.889           | PASS    |
| Band4 | 10              | 20175      | 50      | #0          | QPSK       | 8.982         | 9.750           | PASS    |
| Band4 | 10              | 20350      | 50      | #0          | QPSK       | 9.031         | 9.997           | PASS    |
| Band4 | 15              | 20025      | 75      | #0          | QPSK       | 13.444        | 14.732          | PASS    |
| Band4 | 15              | 20175      | 75      | #0          | QPSK       | 13.470        | 14.647          | PASS    |
| Band4 | 15              | 20325      | 75      | #0          | QPSK       | 13.559        | 18.027          | PASS    |
| Band4 | 20              | 20050      | 100     | #0          | QPSK       | 17.967        | 19.460          | PASS    |
| Band4 | 20              | 20175      | 100     | #0          | QPSK       | 17.975        | 19.572          | PASS    |
| Band4 | 20              | 20300      | 100     | #0          | QPSK       | 18.031        | 19.680          | PASS    |
| Band4 | 10              | 20000      | 50      | #0          | QAM16      | 8.992         | 9.789           | PASS    |
| Band4 | 10              | 20175      | 50      | #0          | QAM16      | 8.976         | 9.733           | PASS    |
| Band4 | 10              | 20350      | 50      | #0          | QAM16      | 9.009         | 9.917           | PASS    |
| Band4 | 15              | 20025      | 75      | #0          | QAM16      | 13.452        | 14.900          | PASS    |
| Band4 | 15              | 20175      | 75      | #0          | QAM16      | 13.465        | 14.677          | PASS    |
| Band4 | 15              | 20325      | 75      | #0          | QAM16      | 13.528        | 17.215          | PASS    |
| Band4 | 20              | 20050      | 100     | #0          | QAM16      | 17.972        | 19.376          | PASS    |
| Band4 | 20              | 20175      | 100     | #0          | QAM16      | 17.965        | 19.589          | PASS    |
| Band4 | 20              | 20300      | 100     | #0          | QAM16      | 17.998        | 19.647          | PASS    |

Band4 QPSK BW=1.4MHz Channel=19957 RB Size=6 Position=#0

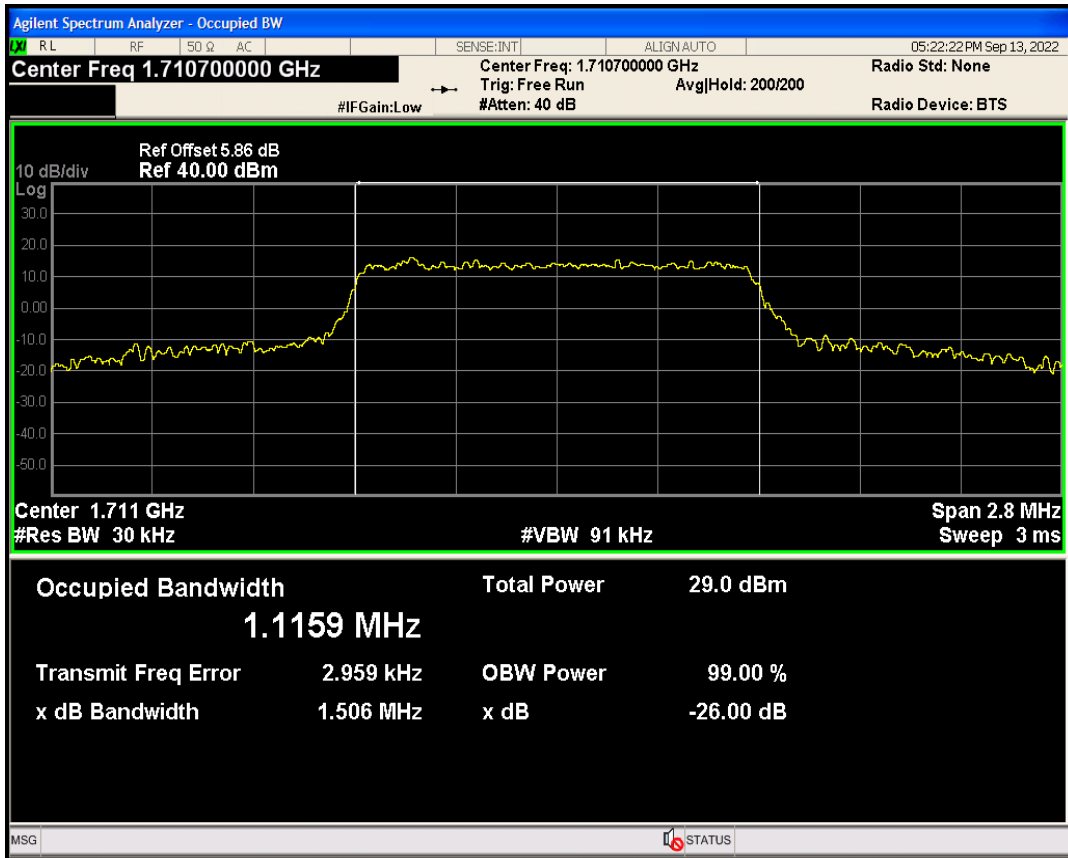


Band4 QPSK BW=1.4MHz Channel=20175 RB Size=6 Position=#0

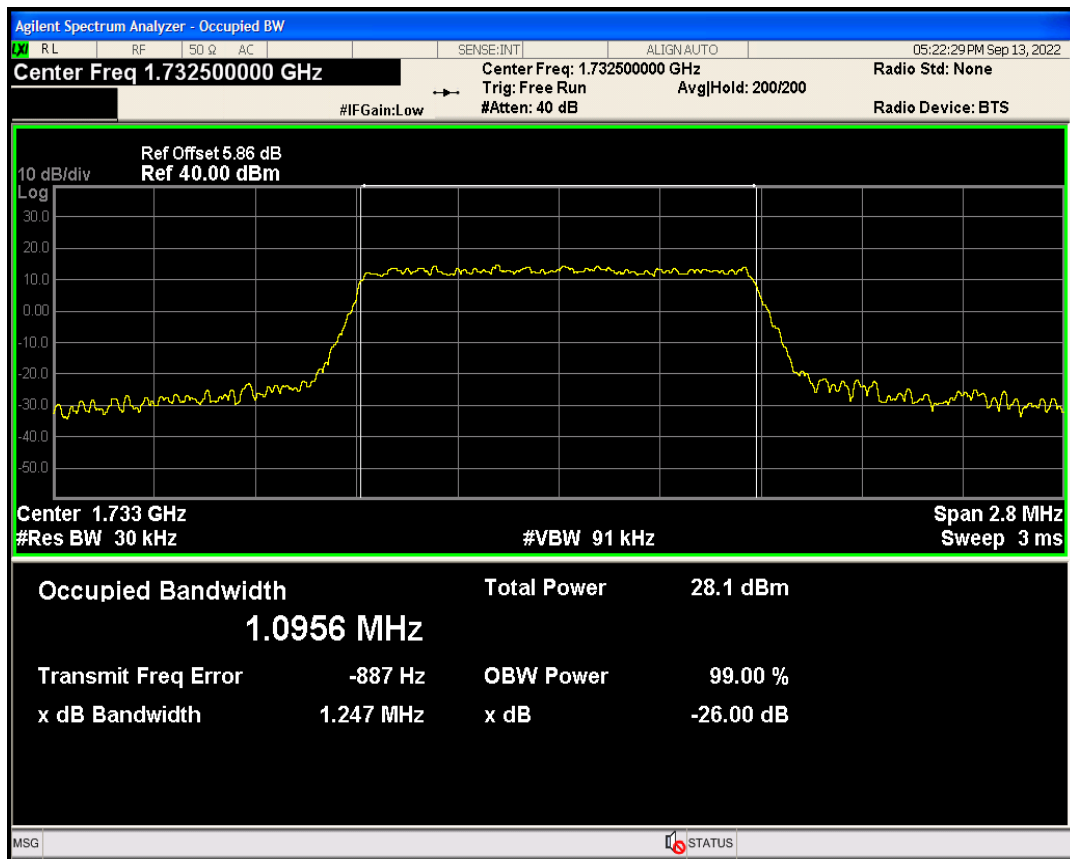




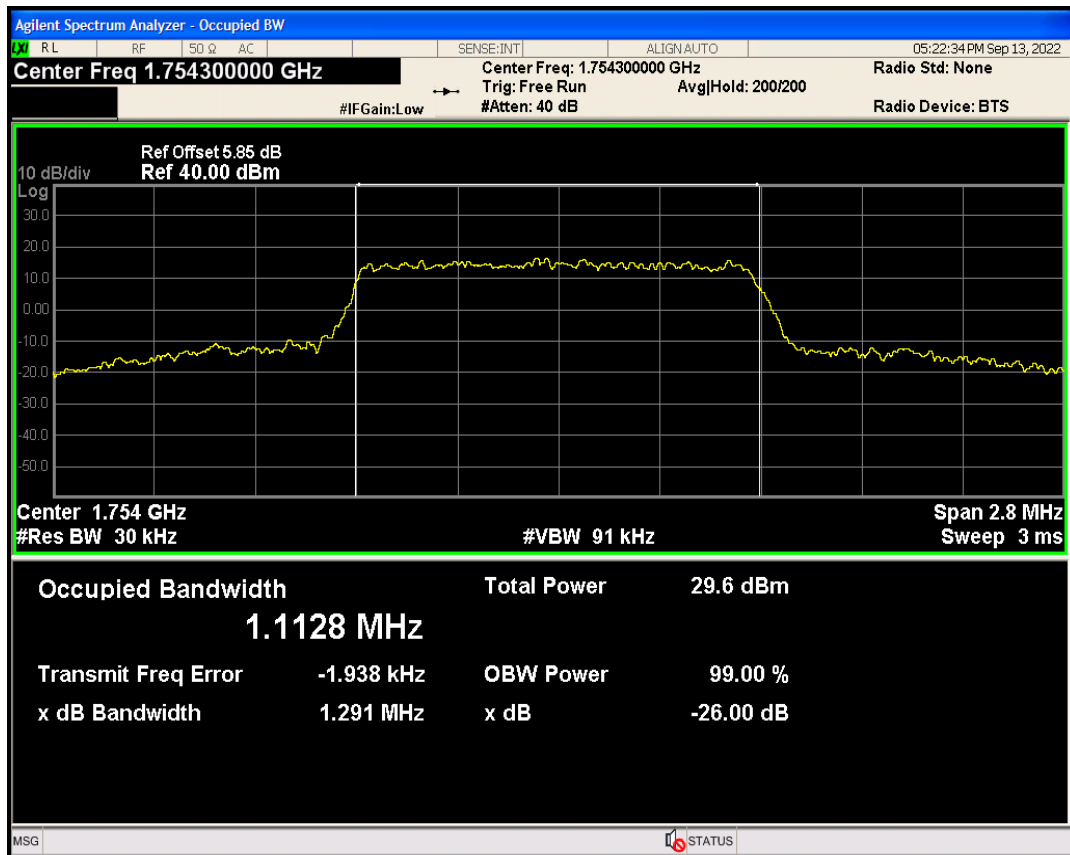
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Band4 QAM16 BW=1.4MHz Channel=20175 RB Size=6 Position=#0

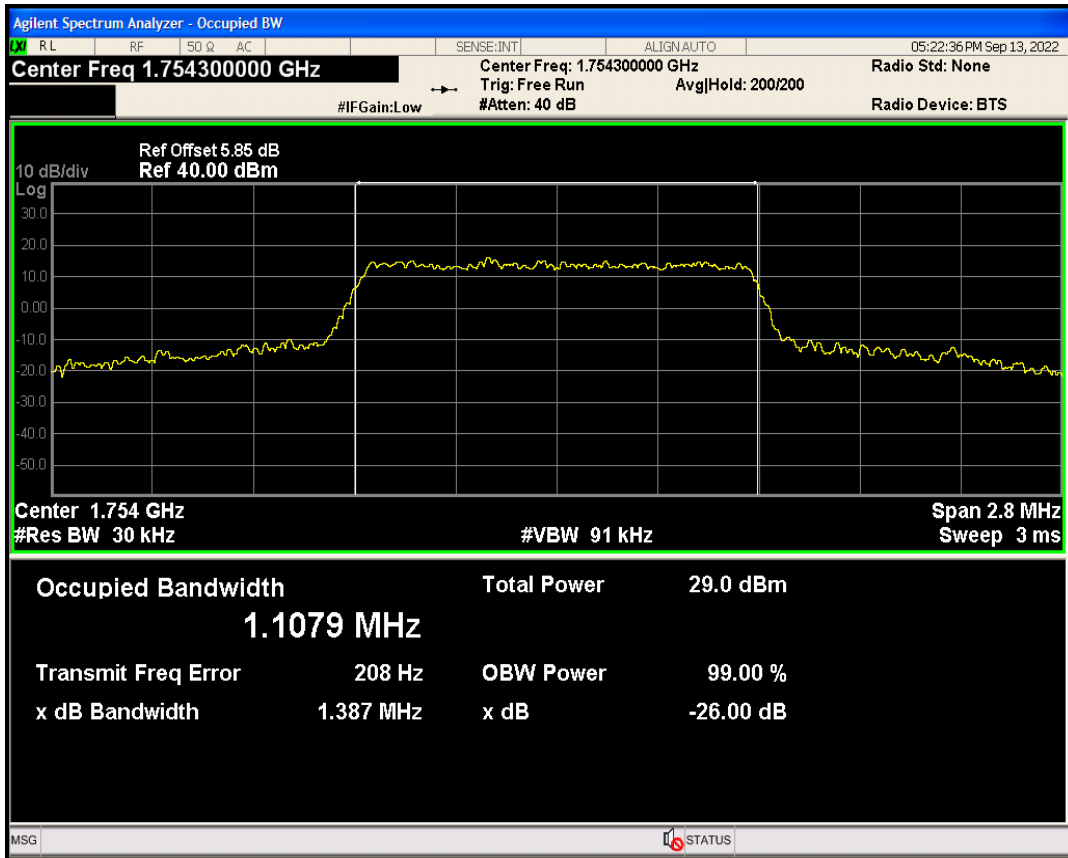


Band4 QPSK BW=1.4MHz Channel=20393 RB Size=6 Position=#0

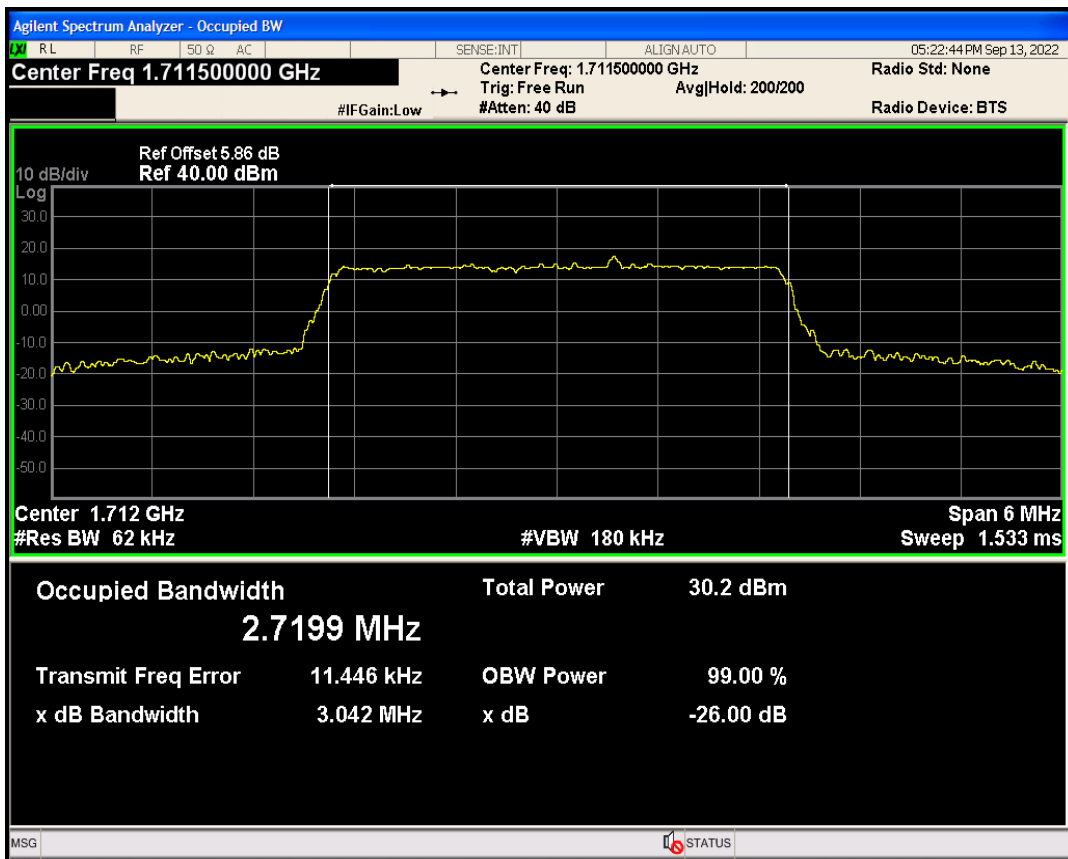




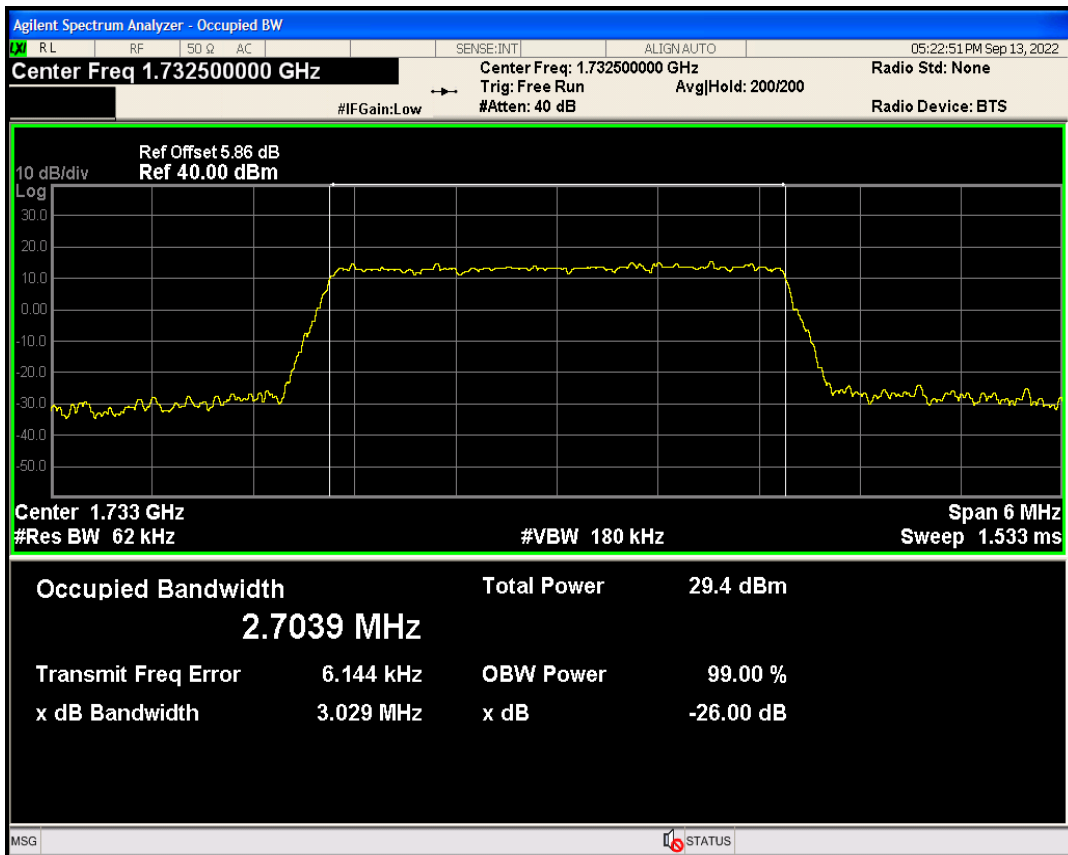
Band4 QAM16 BW=1.4MHz Channel=20393 RB Size=6 Position=#0



Band4 QPSK BW=3MHz Channel=19965 RB Size=15 Position=#0

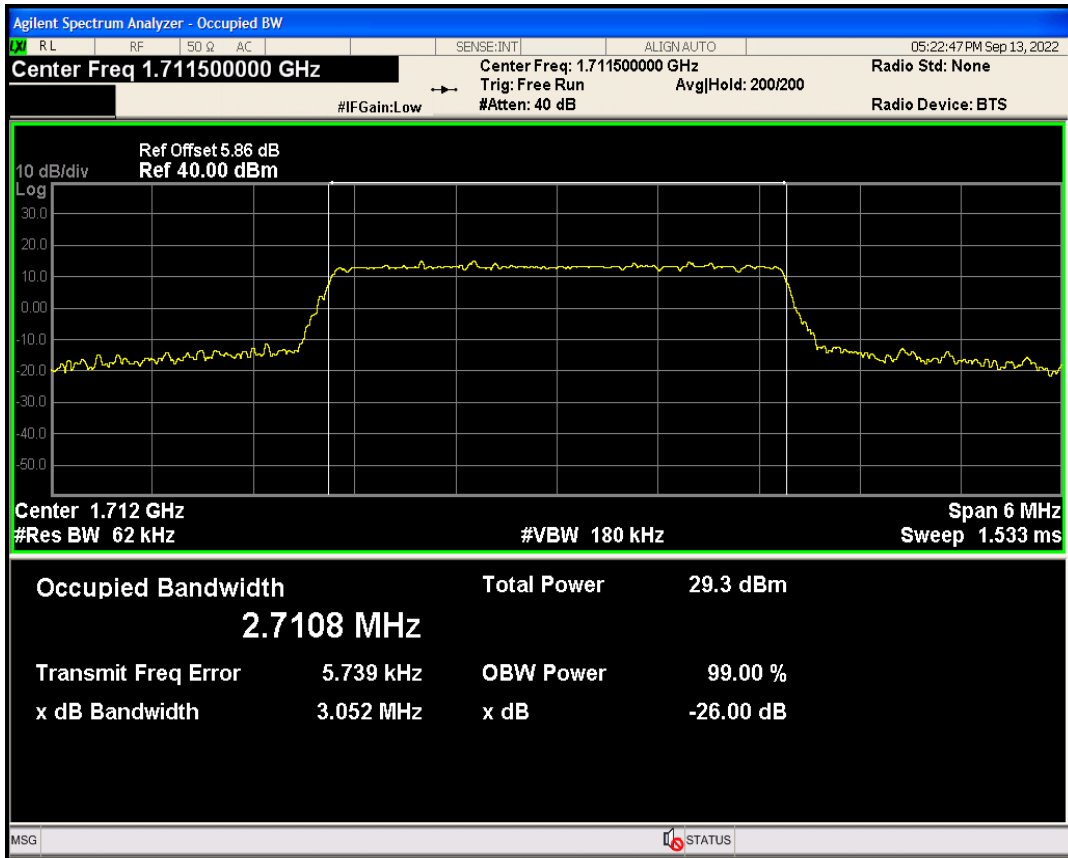


Band4 QPSK BW=3MHz Channel=20175 RB Size=15 Position=#0

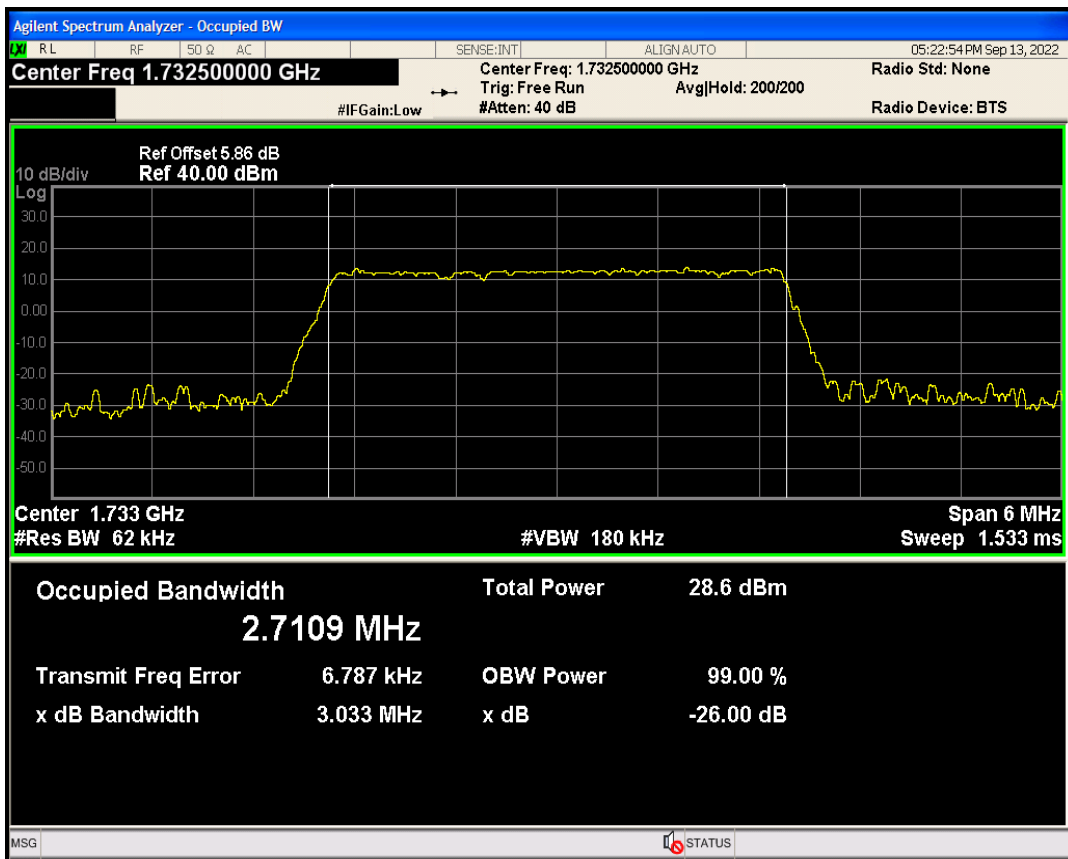




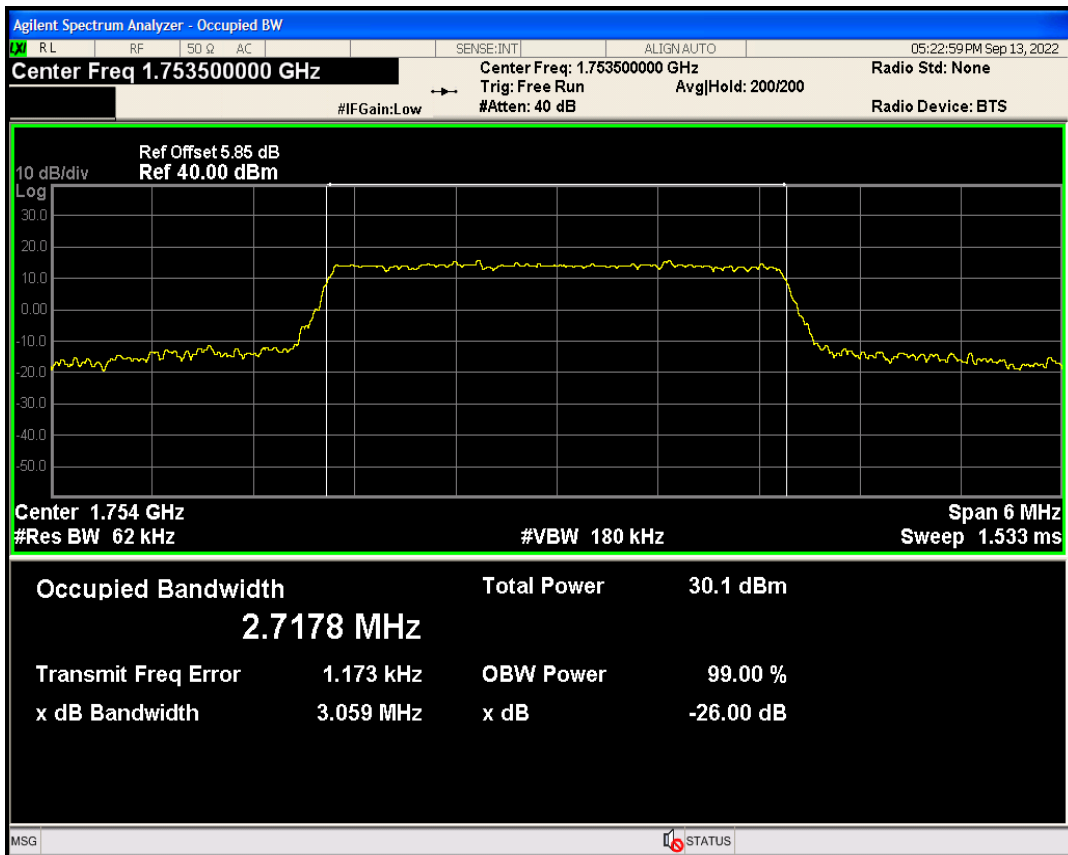
Band4 QAM16 BW=3MHz Channel=19965 RB Size=15 Position=#0



Band4 QAM16 BW=3MHz Channel=20175 RB Size=15 Position=#0

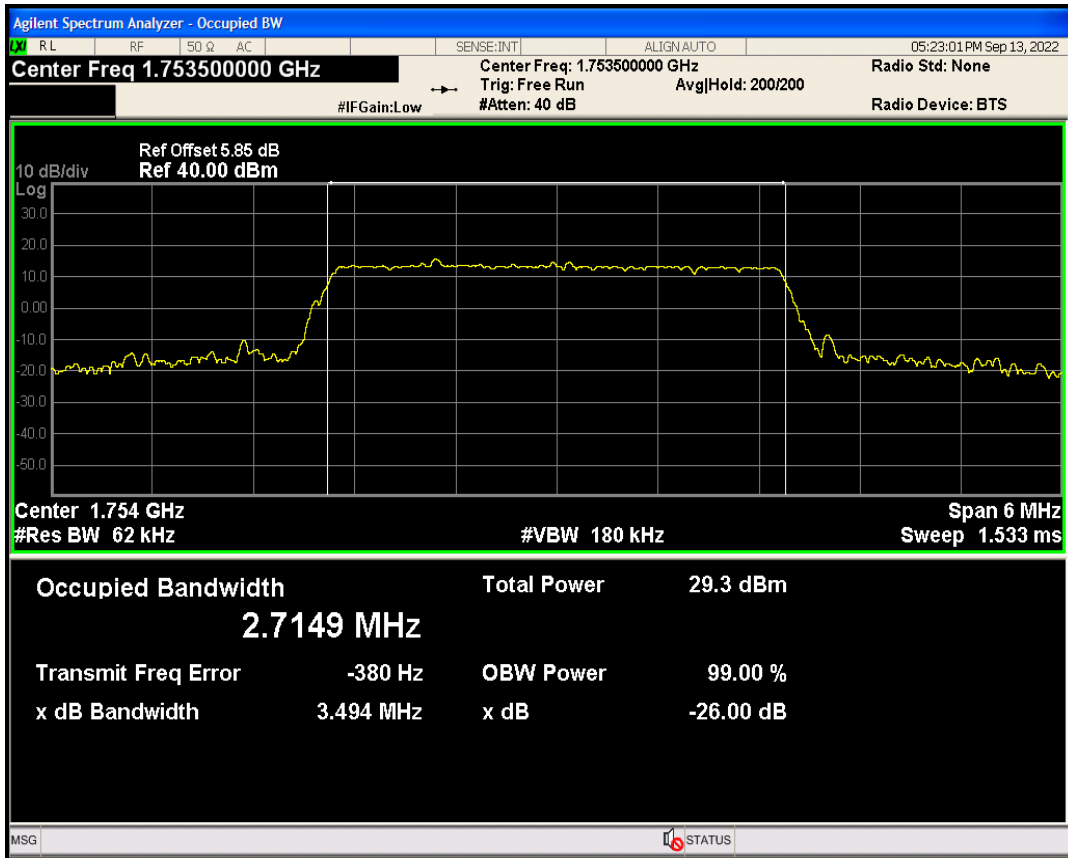


Band4 QPSK BW=3MHz Channel=20385 RB Size=15 Position=#0

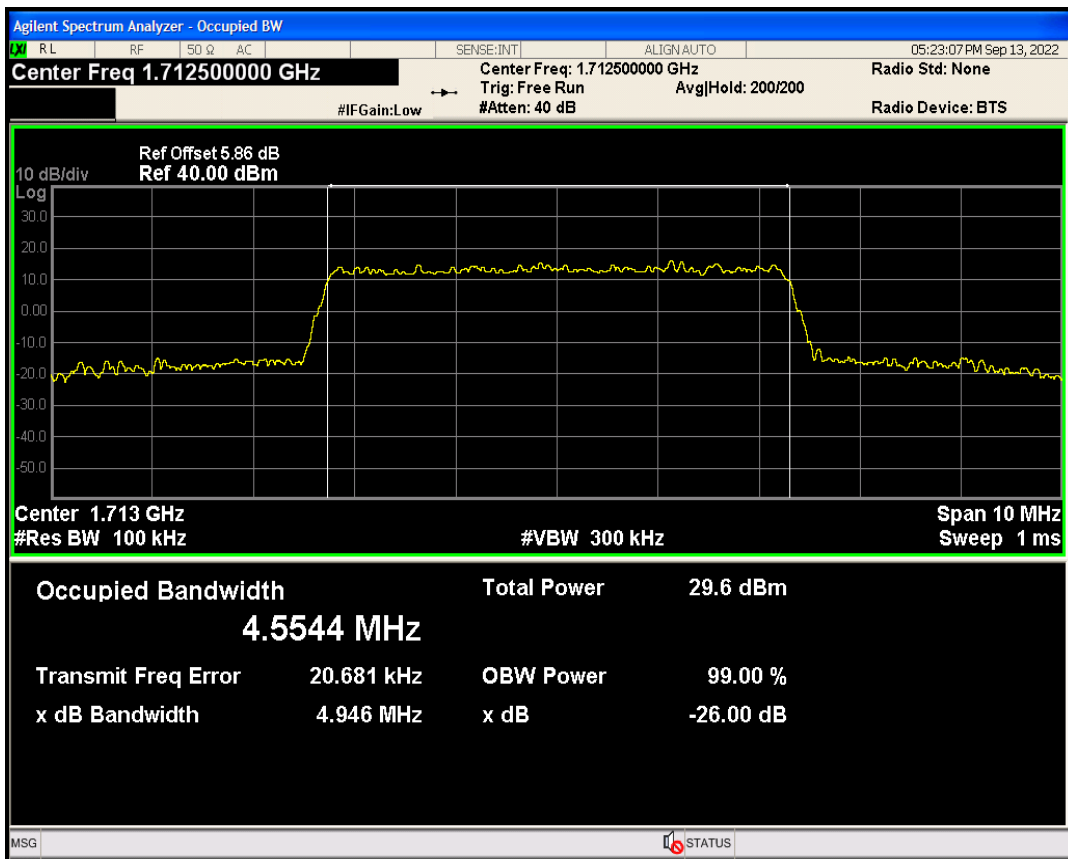




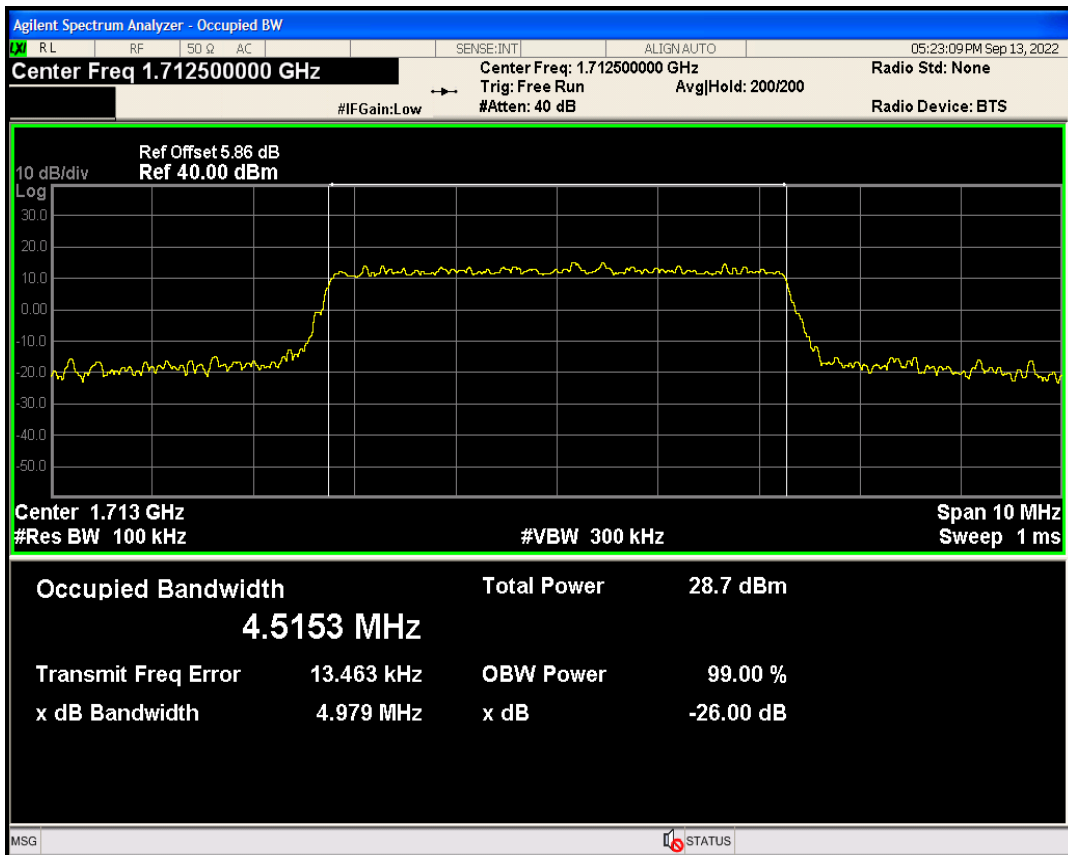
Band4 QAM16 BW=3MHz Channel=20385 RB Size=15 Position=#0



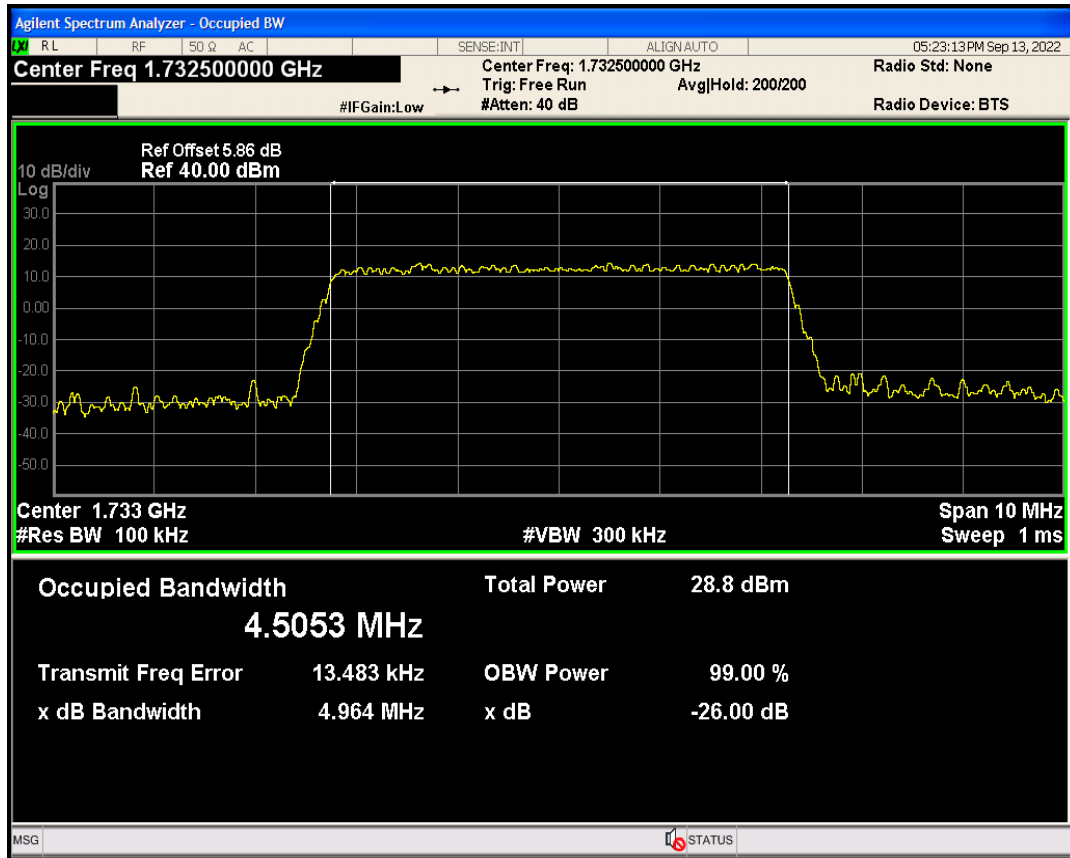
Band4 QPSK BW=5MHz Channel=19975 RB Size=25 Position=#0



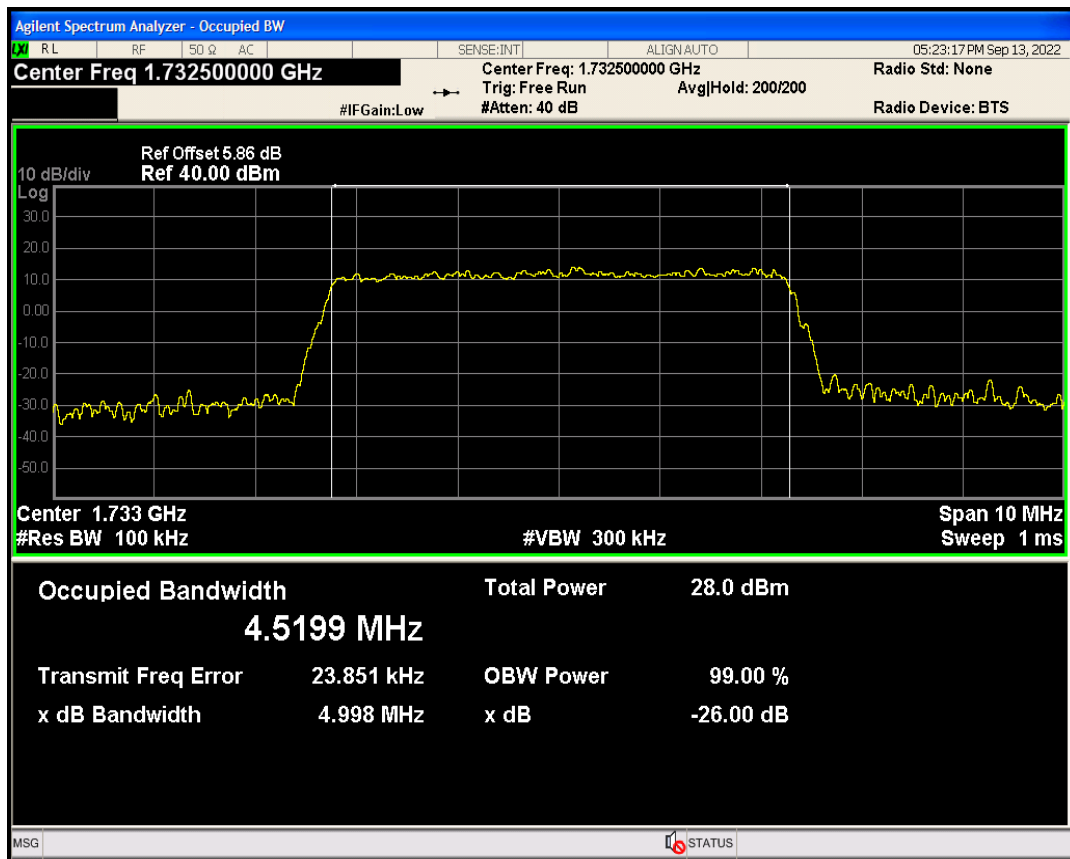
Band4 QAM16 BW=5MHz Channel=19975 RB Size=25 Position=#0



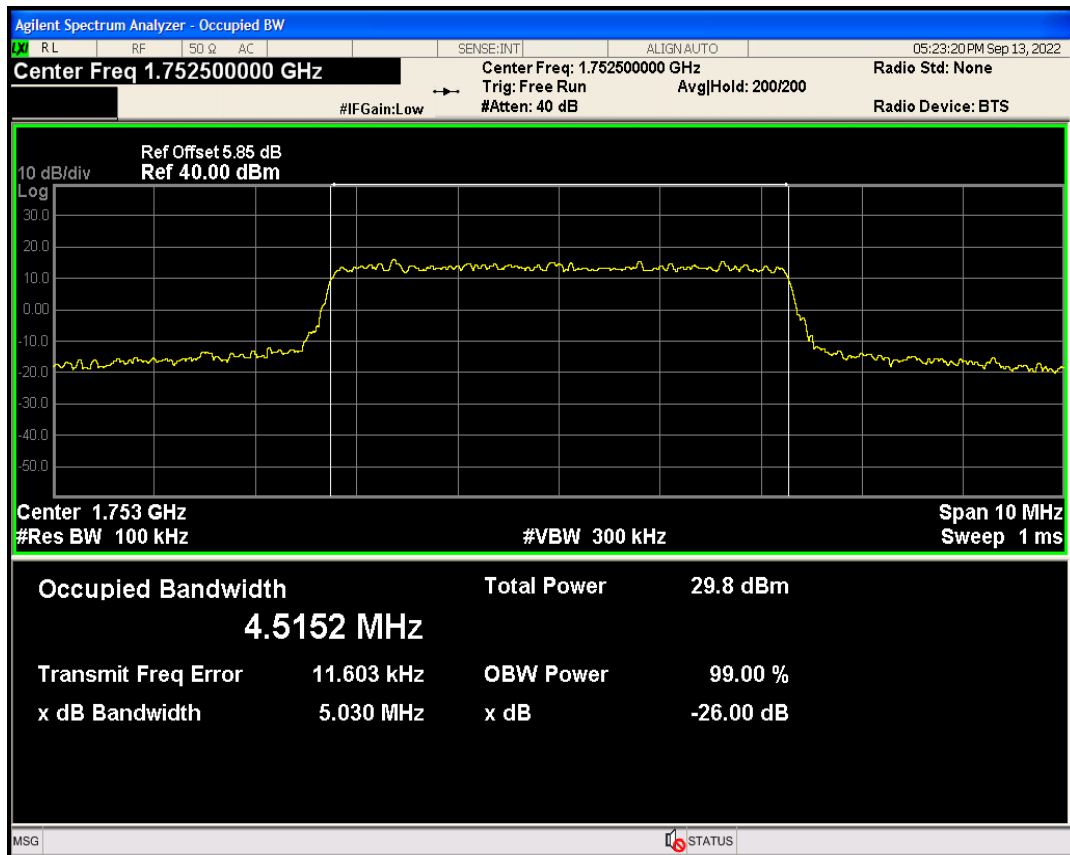
Band4 QPSK BW=5MHz Channel=20175 RB Size=25 Position=#0



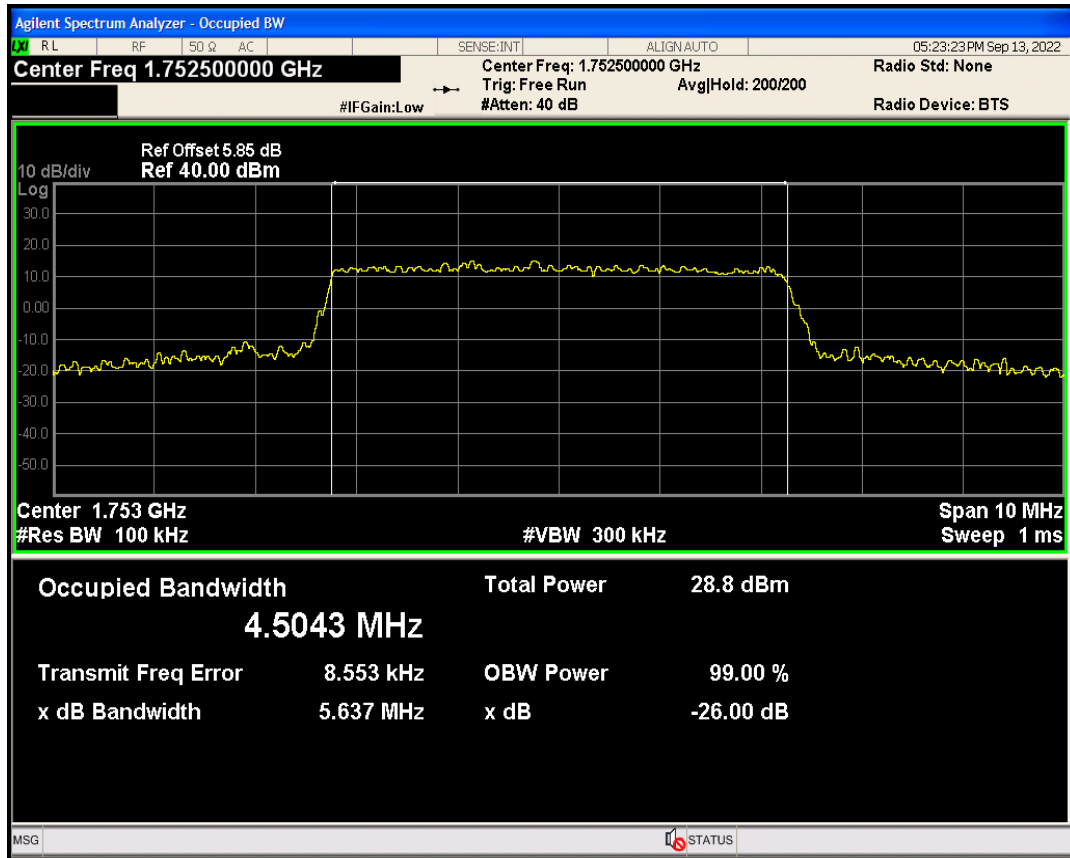
Band4 QAM16 BW=5MHz Channel=20175 RB Size=25 Position=#0



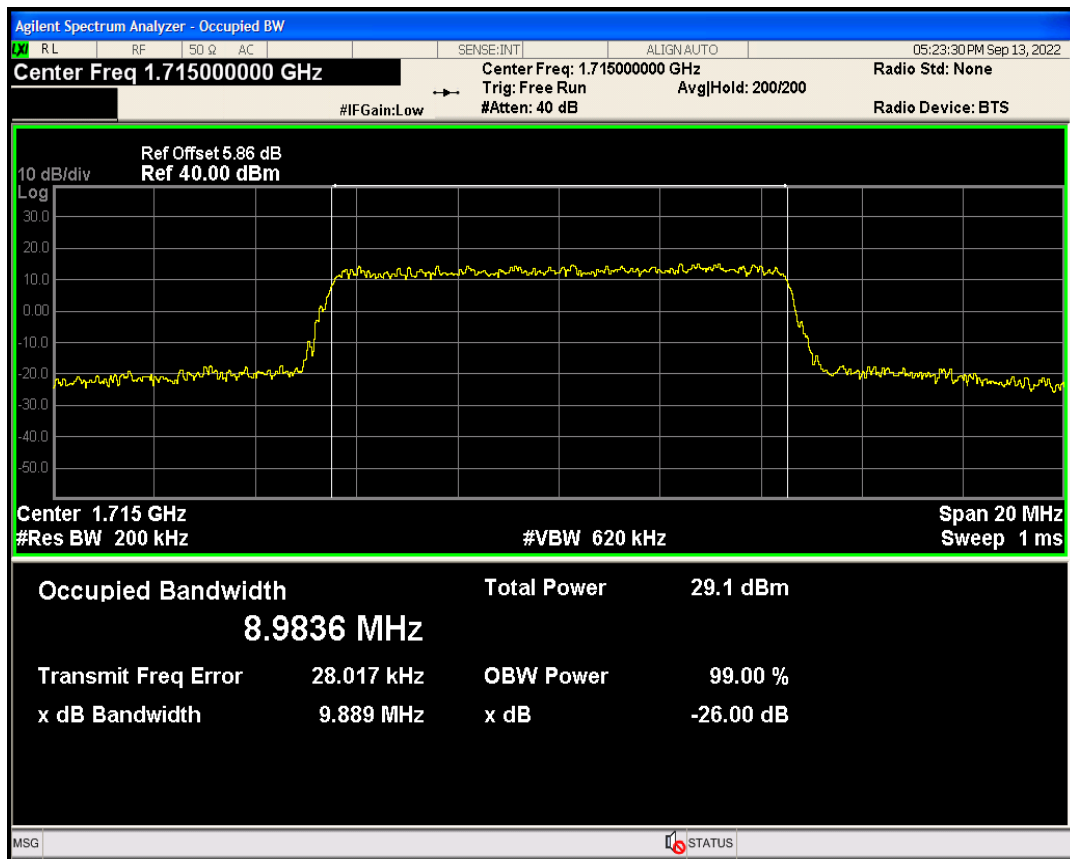
Band4 QPSK BW=5MHz Channel=20375 RB Size=25 Position=#0



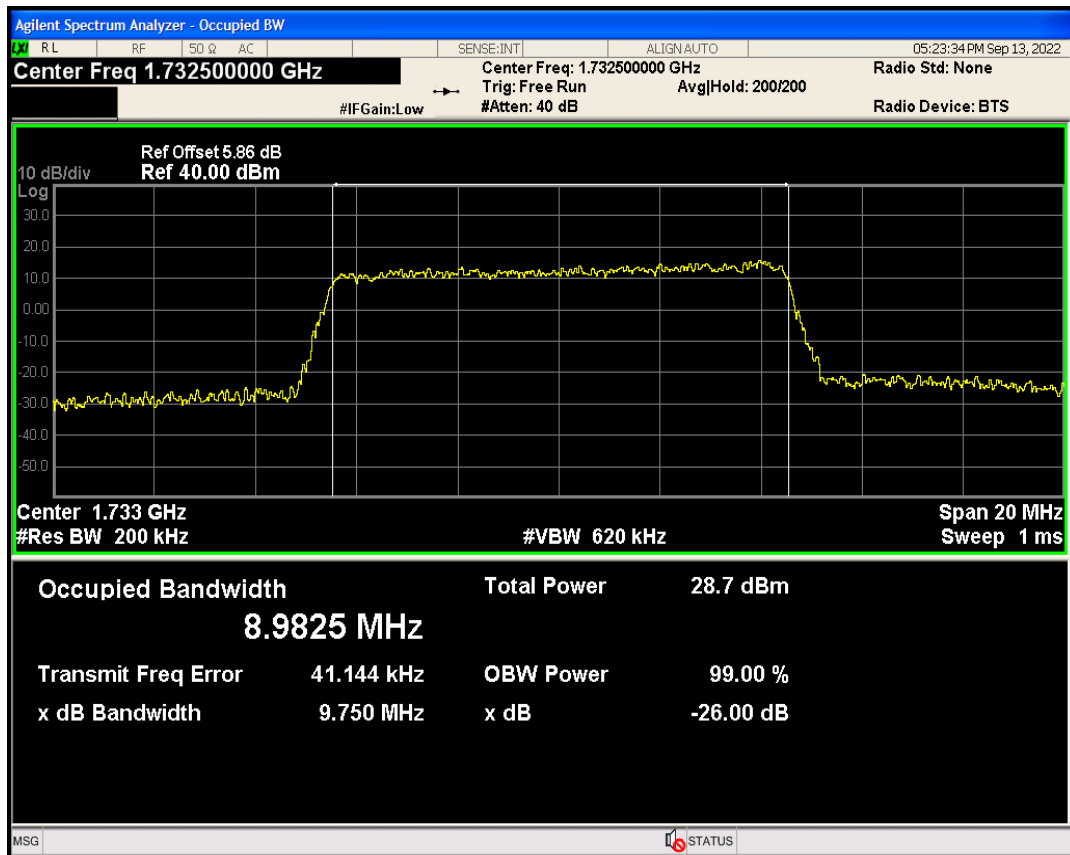
Band4 QAM16 BW=5MHz Channel=20375 RB Size=25 Position=#0



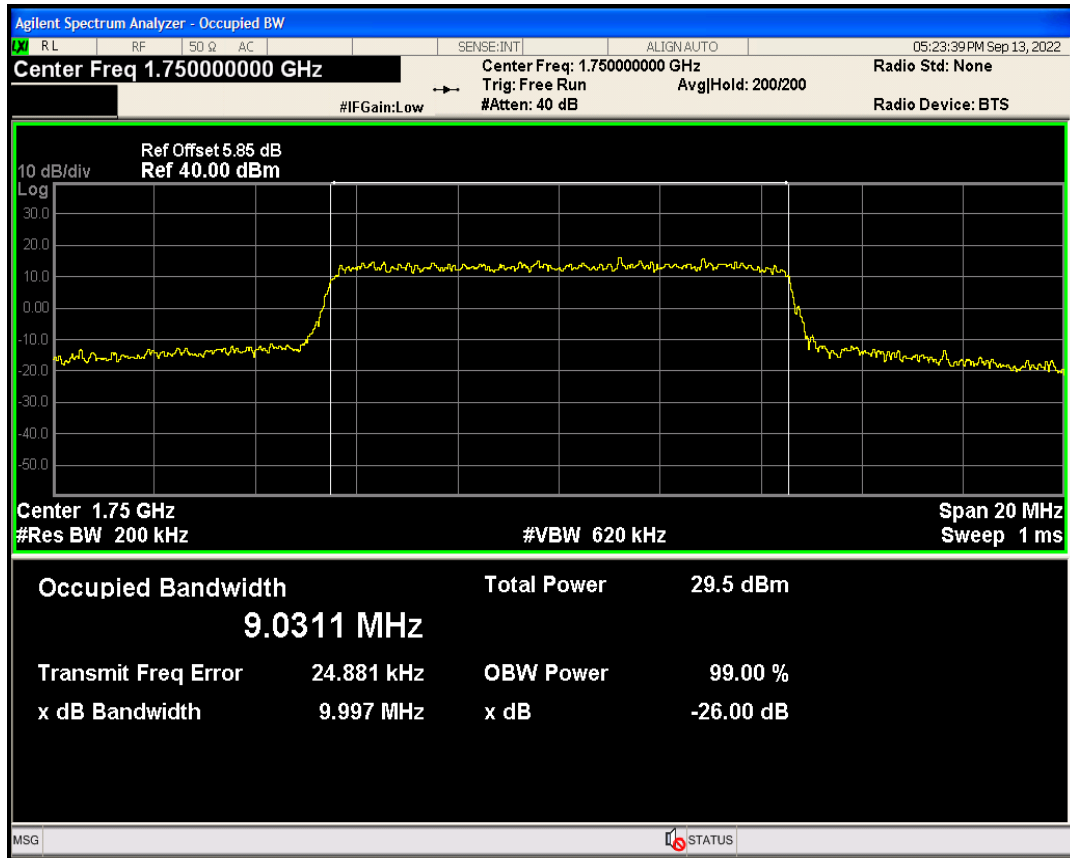
Band4 QPSK BW=10MHz Channel=20000 RB Size=50 Position=#0



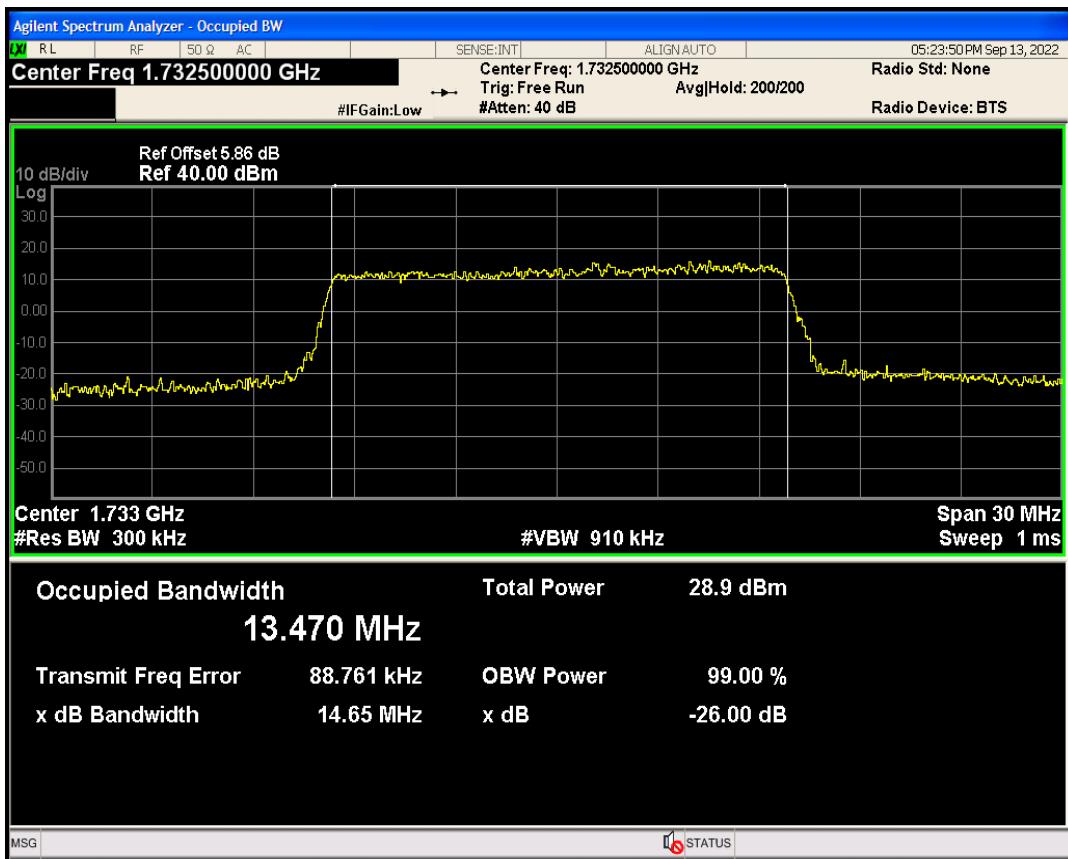
Band4 QPSK BW=10MHz Channel=20175 RB Size=50 Position=#0



Band4 QPSK BW=10MHz Channel=20350 RB Size=50 Position=#0



Band4 QPSK BW=15MHz Channel=20175 RB Size=75 Position=#0



Band4 QPSK BW=15MHz Channel=20025 RB Size=75 Position=#0

