# Appendix for Band 7

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|---|---|
| Report No.: | BCTC2304875804-6E |
| Applicant: | Shenzhen Qichang Intelligent Technology Co., Ltd |
| Product Name: | smartphone |
| Model/Type reference: | F102 |
| Tested Date: | 2023-04-27 to 2023-05-15 |
| Issued Date: | 2023-05-16 |

**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 |
|---|---|---|---|---|---|---|---|---|---|
| Band7 | 5 | 20775 | 1 | #0 | QPSK | 21.69 | 0.5 | 22.19 | PASS |
| Band7 | 5 | 20775 | 1 | #Mid | QPSK | 21.81 | 0.5 | 22.31 | PASS |
| Band7 | 5 | 20775 | 1 | #Max | QPSK | 21.79 | 0.5 | 22.29 | PASS |
| Band7 | 5 | 20775 | 12 | #0 | QPSK | 20.76 | 0.5 | 21.26 | PASS |
| Band7 | 5 | 20775 | 12 | #Mid | QPSK | 20.86 | 0.5 | 21.36 | PASS |
| Band7 | 5 | 20775 | 12 | #Max | QPSK | 20.88 | 0.5 | 21.38 | PASS |
| Band7 | 5 | 20775 | 25 | #0 | QPSK | 20.82 | 0.5 | 21.32 | PASS |
| Band7 | 5 | 20775 | 1 | #0 | 16QAM | 21.00 | 0.5 | 21.50 | PASS |
| Band7 | 5 | 20775 | 1 | #Mid | 16QAM | 21.07 | 0.5 | 21.57 | PASS |
| Band7 | 5 | 20775 | 1 | #Max | 16QAM | 21.04 | 0.5 | 21.54 | PASS |
| Band7 | 5 | 20775 | 12 | #0 | 16QAM | 19.80 | 0.5 | 20.30 | PASS |
| Band7 | 5 | 20775 | 12 | #Mid | 16QAM | 19.90 | 0.5 | 20.40 | PASS |
| Band7 | 5 | 20775 | 12 | #Max | 16QAM | 19.88 | 0.5 | 20.38 | PASS |
| Band7 | 5 | 20775 | 25 | #0 | 16QAM | 19.79 | 0.5 | 20.29 | PASS |
| Band7 | 5 | 21100 | 1 | #0 | QPSK | 22.00 | 0.5 | 22.50 | PASS |
| Band7 | 5 | 21100 | 1 | #Mid | QPSK | 22.18 | 0.5 | 22.68 | PASS |
| Band7 | 5 | 21100 | 1 | #Max | QPSK | 22.21 | 0.5 | 22.71 | PASS |
| Band7 | 5 | 21100 | 12 | #0 | QPSK | 21.05 | 0.5 | 21.55 | PASS |
| Band7 | 5 | 21100 | 12 | #Mid | QPSK | 21.16 | 0.5 | 21.66 | PASS |
| Band7 | 5 | 21100 | 12 | #Max | QPSK | 21.20 | 0.5 | 21.70 | PASS |
| Band7 | 5 | 21100 | 25 | #0 | QPSK | 21.12 | 0.5 | 21.62 | PASS |
| Band7 | 5 | 21100 | 1 | #0 | 16QAM | 21.44 | 0.5 | 21.94 | PASS |
| Band7 | 5 | 21100 | 1 | #Mid | 16QAM | 21.59 | 0.5 | 22.09 | PASS |
| Band7 | 5 | 21100 | 1 | #Max | 16QAM | 21.63 | 0.5 | 22.13 | PASS |
| Band7 | 5 | 21100 | 12 | #0 | 16QAM | 20.03 | 0.5 | 20.53 | PASS |
| Band7 | 5 | 21100 | 12 | #Mid | 16QAM | 20.17 | 0.5 | 20.67 | PASS |
| Band7 | 5 | 21100 | 12 | #Max | 16QAM | 20.19 | 0.5 | 20.69 | PASS |
| Band7 | 5 | 21100 | 25 | #0 | 16QAM | 20.08 | 0.5 | 20.58 | PASS |
| Band7 | 5 | 21425 | 1 | #0 | QPSK | 22.26 | 0.5 | 22.76 | PASS |
| Band7 | 5 | 21425 | 1 | #Mid | QPSK | 22.32 | 0.5 | 22.82 | PASS |
| Band7 | 5 | 21425 | 1 | #Max | QPSK | 22.34 | 0.5 | 22.84 | PASS |
| Band7 | 5 | 21425 | 12 | #0 | QPSK | 21.24 | 0.5 | 21.74 | PASS |
| Band7 | 5 | 21425 | 12 | #Mid | QPSK | 21.30 | 0.5 | 21.80 | PASS |
| Band7 | 5 | 21425 | 12 | #Max | QPSK | 21.29 | 0.5 | 21.79 | PASS |
| Band7 | 5 | 21425 | 25 | #0 | QPSK | 21.29 | 0.5 | 21.79 | PASS |
| Band7 | 5 | 21425 | 1 | #0 | 16QAM | 21.54 | 0.5 | 22.04 | PASS |
| Band7 | 5 | 21425 | 1 | #Mid | 16QAM | 21.59 | 0.5 | 22.09 | PASS |
| Band7 | 5 | 21425 | 1 | #Max | 16QAM | 21.57 | 0.5 | 22.07 | PASS |

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|---|---|---|---|---|---|---|---|---|---|
| Band7 | 5 | 21425 | 12 | #0 | 16QAM | 20.15 | 0.5 | 20.65 | PASS |
| Band7 | 5 | 21425 | 12 | #Mid | 16QAM | 20.25 | 0.5 | 20.75 | PASS |
| Band7 | 5 | 21425 | 12 | #Max | 16QAM | 20.25 | 0.5 | 20.75 | PASS |
| Band7 | 5 | 21425 | 25 | #0 | 16QAM | 20.32 | 0.5 | 20.82 | PASS |
| Band7 | 10 | 20800 | 1 | #0 | QPSK | 21.95 | 0.5 | 22.45 | PASS |
| Band7 | 10 | 20800 | 1 | #Mid | QPSK | 22.03 | 0.5 | 22.53 | PASS |
| Band7 | 10 | 20800 | 1 | #Max | QPSK | 22.15 | 0.5 | 22.65 | PASS |
| Band7 | 10 | 20800 | 25 | #0 | QPSK | 20.81 | 0.5 | 21.31 | PASS |
| Band7 | 10 | 20800 | 25 | #Mid | QPSK | 20.97 | 0.5 | 21.47 | PASS |
| Band7 | 10 | 20800 | 25 | #Max | QPSK | 20.95 | 0.5 | 21.45 | PASS |
| Band7 | 10 | 20800 | 50 | #0 | QPSK | 20.88 | 0.5 | 21.38 | PASS |
| Band7 | 10 | 20800 | 1 | #0 | 16QAM | 20.63 | 0.5 | 21.13 | PASS |
| Band7 | 10 | 20800 | 1 | #Mid | 16QAM | 20.76 | 0.5 | 21.26 | PASS |
| Band7 | 10 | 20800 | 1 | #Max | 16QAM | 20.84 | 0.5 | 21.34 | PASS |
| Band7 | 10 | 20800 | 25 | #0 | 16QAM | 19.77 | 0.5 | 20.27 | PASS |
| Band7 | 10 | 20800 | 25 | #Mid | 16QAM | 19.97 | 0.5 | 20.47 | PASS |
| Band7 | 10 | 20800 | 25 | #Max | 16QAM | 19.96 | 0.5 | 20.46 | PASS |
| Band7 | 10 | 20800 | 50 | #0 | 16QAM | 19.82 | 0.5 | 20.32 | PASS |
| Band7 | 10 | 21100 | 1 | #0 | QPSK | 22.02 | 0.5 | 22.52 | PASS |
| Band7 | 10 | 21100 | 1 | #Mid | QPSK | 22.20 | 0.5 | 22.70 | PASS |
| Band7 | 10 | 21100 | 1 | #Max | QPSK | 22.38 | 0.5 | 22.88 | PASS |
| Band7 | 10 | 21100 | 25 | #0 | QPSK | 21.06 | 0.5 | 21.56 | PASS |
| Band7 | 10 | 21100 | 25 | #Mid | QPSK | 21.19 | 0.5 | 21.69 | PASS |
| Band7 | 10 | 21100 | 25 | #Max | QPSK | 21.27 | 0.5 | 21.77 | PASS |
| Band7 | 10 | 21100 | 50 | #0 | QPSK | 21.21 | 0.5 | 21.71 | PASS |
| Band7 | 10 | 21100 | 1 | #0 | 16QAM | 21.35 | 0.5 | 21.85 | PASS |
| Band7 | 10 | 21100 | 1 | #Mid | 16QAM | 21.56 | 0.5 | 22.06 | PASS |
| Band7 | 10 | 21100 | 1 | #Max | 16QAM | 21.71 | 0.5 | 22.21 | PASS |
| Band7 | 10 | 21100 | 25 | #0 | 16QAM | 20.10 | 0.5 | 20.60 | PASS |
| Band7 | 10 | 21100 | 25 | #Mid | 16QAM | 20.25 | 0.5 | 20.75 | PASS |
| Band7 | 10 | 21100 | 25 | #Max | 16QAM | 20.27 | 0.5 | 20.77 | PASS |
| Band7 | 10 | 21100 | 50 | #0 | 16QAM | 20.17 | 0.5 | 20.67 | PASS |
| Band7 | 10 | 21400 | 1 | #0 | QPSK | 22.33 | 0.5 | 22.83 | PASS |
| Band7 | 10 | 21400 | 1 | #Mid | QPSK | 22.37 | 0.5 | 22.87 | PASS |
| Band7 | 10 | 21400 | 1 | #Max | QPSK | 22.38 | 0.5 | 22.88 | PASS |
| Band7 | 10 | 21400 | 25 | #0 | QPSK | 21.28 | 0.5 | 21.78 | PASS |
| Band7 | 10 | 21400 | 25 | #Mid | QPSK | 21.33 | 0.5 | 21.83 | PASS |
| Band7 | 10 | 21400 | 25 | #Max | QPSK | 21.29 | 0.5 | 21.79 | PASS |
| Band7 | 10 | 21400 | 50 | #0 | QPSK | 21.34 | 0.5 | 21.84 | PASS |
| Band7 | 10 | 21400 | 1 | #0 | 16QAM | 21.43 | 0.5 | 21.93 | PASS |
| Band7 | 10 | 21400 | 1 | #Mid | 16QAM | 21.49 | 0.5 | 21.99 | PASS |
| Band7 | 10 | 21400 | 1 | #Max | 16QAM | 21.48 | 0.5 | 21.98 | PASS |
| Band7 | 10 | 21400 | 25 | #0 | 16QAM | 20.32 | 0.5 | 20.82 | PASS |

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|---|---|---|---|---|---|---|---|---|---|
| Band7 | 10 | 21400 | 25 | #Mid | 16QAM | 20.35 | 0.5 | 20.85 | PASS |
| Band7 | 10 | 21400 | 25 | #Max | 16QAM | 20.29 | 0.5 | 20.79 | PASS |
| Band7 | 10 | 21400 | 50 | #0 | 16QAM | 20.37 | 0.5 | 20.87 | PASS |
| Band7 | 15 | 20825 | 1 | #0 | QPSK | 21.89 | 0.5 | 22.39 | PASS |
| Band7 | 15 | 20825 | 1 | #Mid | QPSK | 22.15 | 0.5 | 22.65 | PASS |
| Band7 | 15 | 20825 | 1 | #Max | QPSK | 22.08 | 0.5 | 22.58 | PASS |
| Band7 | 15 | 20825 | 36 | #0 | QPSK | 20.89 | 0.5 | 21.39 | PASS |
| Band7 | 15 | 20825 | 36 | #Mid | QPSK | 21.05 | 0.5 | 21.55 | PASS |
| Band7 | 15 | 20825 | 36 | #Max | QPSK | 21.08 | 0.5 | 21.58 | PASS |
| Band7 | 15 | 20825 | 75 | #0 | QPSK | 21.00 | 0.5 | 21.50 | PASS |
| Band7 | 15 | 20825 | 1 | #0 | 16QAM | 20.85 | 0.5 | 21.35 | PASS |
| Band7 | 15 | 20825 | 1 | #Mid | 16QAM | 21.07 | 0.5 | 21.57 | PASS |
| Band7 | 15 | 20825 | 1 | #Max | 16QAM | 21.05 | 0.5 | 21.55 | PASS |
| Band7 | 15 | 20825 | 36 | #0 | 16QAM | 19.82 | 0.5 | 20.32 | PASS |
| Band7 | 15 | 20825 | 36 | #Mid | 16QAM | 19.98 | 0.5 | 20.48 | PASS |
| Band7 | 15 | 20825 | 36 | #Max | 16QAM | 19.96 | 0.5 | 20.46 | PASS |
| Band7 | 15 | 20825 | 75 | #0 | 16QAM | 19.95 | 0.5 | 20.45 | PASS |
| Band7 | 15 | 21100 | 1 | #0 | QPSK | 21.91 | 0.5 | 22.41 | PASS |
| Band7 | 15 | 21100 | 1 | #Mid | QPSK | 22.21 | 0.5 | 22.71 | PASS |
| Band7 | 15 | 21100 | 1 | #Max | QPSK | 22.43 | 0.5 | 22.93 | PASS |
| Band7 | 15 | 21100 | 36 | #0 | QPSK | 21.04 | 0.5 | 21.54 | PASS |
| Band7 | 15 | 21100 | 36 | #Mid | QPSK | 21.26 | 0.5 | 21.76 | PASS |
| Band7 | 15 | 21100 | 36 | #Max | QPSK | 21.38 | 0.5 | 21.88 | PASS |
| Band7 | 15 | 21100 | 75 | #0 | QPSK | 21.28 | 0.5 | 21.78 | PASS |
| Band7 | 15 | 21100 | 1 | #0 | 16QAM | 21.29 | 0.5 | 21.79 | PASS |
| Band7 | 15 | 21100 | 1 | #Mid | 16QAM | 21.53 | 0.5 | 22.03 | PASS |
| Band7 | 15 | 21100 | 1 | #Max | 16QAM | 21.73 | 0.5 | 22.23 | PASS |
| Band7 | 15 | 21100 | 36 | #0 | 16QAM | 20.06 | 0.5 | 20.56 | PASS |
| Band7 | 15 | 21100 | 36 | #Mid | 16QAM | 20.27 | 0.5 | 20.77 | PASS |
| Band7 | 15 | 21100 | 36 | #Max | 16QAM | 20.34 | 0.5 | 20.84 | PASS |
| Band7 | 15 | 21100 | 75 | #0 | 16QAM | 20.22 | 0.5 | 20.72 | PASS |
| Band7 | 15 | 21375 | 1 | #0 | QPSK | 22.37 | 0.5 | 22.87 | PASS |
| Band7 | 15 | 21375 | 1 | #Mid | QPSK | 22.30 | 0.5 | 22.80 | PASS |
| Band7 | 15 | 21375 | 1 | #Max | QPSK | 22.24 | 0.5 | 22.74 | PASS |
| Band7 | 15 | 21375 | 36 | #0 | QPSK | 21.41 | 0.5 | 21.91 | PASS |
| Band7 | 15 | 21375 | 36 | #Mid | QPSK | 21.39 | 0.5 | 21.89 | PASS |
| Band7 | 15 | 21375 | 36 | #Max | QPSK | 21.32 | 0.5 | 21.82 | PASS |
| Band7 | 15 | 21375 | 75 | #0 | QPSK | 21.38 | 0.5 | 21.88 | PASS |
| Band7 | 15 | 21375 | 1 | #0 | 16QAM | 21.51 | 0.5 | 22.01 | PASS |
| Band7 | 15 | 21375 | 1 | #Mid | 16QAM | 21.45 | 0.5 | 21.95 | PASS |
| Band7 | 15 | 21375 | 1 | #Max | 16QAM | 21.42 | 0.5 | 21.92 | PASS |
| Band7 | 15 | 21375 | 36 | #0 | 16QAM | 20.43 | 0.5 | 20.93 | PASS |
| Band7 | 15 | 21375 | 36 | #Mid | 16QAM | 20.43 | 0.5 | 20.93 | PASS |

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|---|---|---|---|---|---|---|---|---|---|
| Band7 | 15 | 21375 | 36 | #Max | 16QAM | 20.35 | 0.5 | 20.85 | PASS |
| Band7 | 15 | 21375 | 75 | #0 | 16QAM | 20.34 | 0.5 | 20.84 | PASS |
| Band7 | 20 | 20850 | 1 | #0 | QPSK | 21.80 | 0.5 | 22.30 | PASS |
| Band7 | 20 | 20850 | 1 | #Mid | QPSK | 22.20 | 0.5 | 22.70 | PASS |
| Band7 | 20 | 20850 | 1 | #Max | QPSK | 22.05 | 0.5 | 22.55 | PASS |
| Band7 | 20 | 20850 | 50 | #0 | QPSK | 20.82 | 0.5 | 21.32 | PASS |
| Band7 | 20 | 20850 | 50 | #Mid | QPSK | 21.03 | 0.5 | 21.53 | PASS |
| Band7 | 20 | 20850 | 50 | #Max | QPSK | 20.94 | 0.5 | 21.44 | PASS |
| Band7 | 20 | 20850 | 100 | #0 | QPSK | 20.86 | 0.5 | 21.36 | PASS |
| Band7 | 20 | 20850 | 1 | #0 | 16QAM | 20.86 | 0.5 | 21.36 | PASS |
| Band7 | 20 | 20850 | 1 | #Mid | 16QAM | 21.23 | 0.5 | 21.73 | PASS |
| Band7 | 20 | 20850 | 1 | #Max | 16QAM | 21.12 | 0.5 | 21.62 | PASS |
| Band7 | 20 | 20850 | 50 | #0 | 16QAM | 19.78 | 0.5 | 20.28 | PASS |
| Band7 | 20 | 20850 | 50 | #Mid | 16QAM | 20.02 | 0.5 | 20.52 | PASS |
| Band7 | 20 | 20850 | 50 | #Max | 16QAM | 19.95 | 0.5 | 20.45 | PASS |
| Band7 | 20 | 20850 | 100 | #0 | 16QAM | 19.84 | 0.5 | 20.34 | PASS |
| Band7 | 20 | 21100 | 1 | #0 | QPSK | 21.82 | 0.5 | 22.32 | PASS |
| Band7 | 20 | 21100 | 1 | #Mid | QPSK | 22.26 | 0.5 | 22.76 | PASS |
| Band7 | 20 | 21100 | 1 | #Max | QPSK | 22.49 | 0.5 | 22.99 | PASS |
| Band7 | 20 | 21100 | 50 | #0 | QPSK | 20.96 | 0.5 | 21.46 | PASS |
| Band7 | 20 | 21100 | 50 | #Mid | QPSK | 21.25 | 0.5 | 21.75 | PASS |
| Band7 | 20 | 21100 | 50 | #Max | QPSK | 21.32 | 0.5 | 21.82 | PASS |
| Band7 | 20 | 21100 | 100 | #0 | QPSK | 21.15 | 0.5 | 21.65 | PASS |
| Band7 | 20 | 21100 | 1 | #0 | 16QAM | 21.00 | 0.5 | 21.50 | PASS |
| Band7 | 20 | 21100 | 1 | #Mid | 16QAM | 21.46 | 0.5 | 21.96 | PASS |
| Band7 | 20 | 21100 | 1 | #Max | 16QAM | 21.66 | 0.5 | 22.16 | PASS |
| Band7 | 20 | 21100 | 50 | #0 | 16QAM | 19.99 | 0.5 | 20.49 | PASS |
| Band7 | 20 | 21100 | 50 | #Mid | 16QAM | 20.29 | 0.5 | 20.79 | PASS |
| Band7 | 20 | 21100 | 50 | #Max | 16QAM | 20.33 | 0.5 | 20.83 | PASS |
| Band7 | 20 | 21100 | 100 | #0 | 16QAM | 20.17 | 0.5 | 20.67 | PASS |
| Band7 | 20 | 21350 | 1 | #0 | QPSK | 22.43 | 0.5 | 22.93 | PASS |
| Band7 | 20 | 21350 | 1 | #Mid | QPSK | 22.49 | 0.5 | 22.99 | PASS |
| Band7 | 20 | 21350 | 1 | #Max | QPSK | 22.29 | 0.5 | 22.79 | PASS |
| Band7 | 20 | 21350 | 50 | #0 | QPSK | 21.44 | 0.5 | 21.94 | PASS |
| Band7 | 20 | 21350 | 50 | #Mid | QPSK | 21.38 | 0.5 | 21.88 | PASS |
| Band7 | 20 | 21350 | 50 | #Max | QPSK | 21.27 | 0.5 | 21.77 | PASS |
| Band7 | 20 | 21350 | 100 | #0 | QPSK | 21.29 | 0.5 | 21.79 | PASS |
| Band7 | 20 | 21350 | 1 | #0 | 16QAM | 21.63 | 0.5 | 22.13 | PASS |
| Band7 | 20 | 21350 | 1 | #Mid | 16QAM | 21.68 | 0.5 | 22.18 | PASS |
| Band7 | 20 | 21350 | 1 | #Max | 16QAM | 21.51 | 0.5 | 22.01 | PASS |
| Band7 | 20 | 21350 | 50 | #0 | 16QAM | 20.45 | 0.5 | 20.95 | PASS |
| Band7 | 20 | 21350 | 50 | #Mid | 16QAM | 20.42 | 0.5 | 20.92 | PASS |
| Band7 | 20 | 21350 | 50 | #Max | 16QAM | 20.28 | 0.5 | 20.78 | PASS |

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|---|---|---|---|---|---|---|---|---|---|
| Band7 | 20 | 21350 | 100 | #0 | 16QAM | 20.31 | 0.5 | 20.81 | 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 7 | 5 | 20775 | 25 | #0 | QPSK | LV | NT | -10.34 | -0.004 | -2.5 | 2.5 | PASS |
| Band 7 | 5 | 20775 | 25 | #0 | QPSK | NV | NT | -1.24 | 0.000 | -2.5 | 2.5 | PASS |
| Band 7 | 5 | 20775 | 25 | #0 | QPSK | HV | NT | -6.12 | -0.002 | -2.5 | 2.5 | PASS |
| Band 7 | 5 | 20775 | 25 | #0 | 16QAM | LV | NT | -2.96 | -0.001 | -2.5 | 2.5 | PASS |
| Band 7 | 5 | 20775 | 25 | #0 | 16QAM | NV | NT | -5.89 | -0.002 | -2.5 | 2.5 | PASS |
| Band 7 | 5 | 20775 | 25 | #0 | 16QAM | HV | NT | -2.57 | -0.001 | -2.5 | 2.5 | PASS |
| Band 7 | 5 | 21100 | 25 | #0 | QPSK | LV | NT | -6.92 | -0.003 | -2.5 | 2.5 | PASS |
| Band 7 | 5 | 21100 | 25 | #0 | QPSK | NV | NT | -5.25 | -0.002 | -2.5 | 2.5 | PASS |
| Band 7 | 5 | 21100 | 25 | #0 | QPSK | HV | NT | -0.50 | 0.000 | -2.5 | 2.5 | PASS |
| Band 7 | 5 | 21100 | 25 | #0 | 16QAM | LV | NT | -6.39 | -0.003 | -2.5 | 2.5 | PASS |
| Band 7 | 5 | 21100 | 25 | #0 | 16QAM | NV | NT | -2.85 | -0.001 | -2.5 | 2.5 | PASS |
| Band 7 | 5 | 21100 | 25 | #0 | 16QAM | HV | NT | -2.75 | -0.001 | -2.5 | 2.5 | PASS |
| Band 7 | 5 | 21425 | 25 | #0 | QPSK | LV | NT | -0.66 | 0.000 | -2.5 | 2.5 | PASS |
| Band 7 | 5 | 21425 | 25 | #0 | QPSK | NV | NT | -1.77 | -0.001 | -2.5 | 2.5 | PASS |
| Band 7 | 5 | 21425 | 25 | #0 | QPSK | HV | NT | 1.60 | 0.001 | -2.5 | 2.5 | PASS |
| Band 7 | 5 | 21425 | 25 | #0 | 16QAM | LV | NT | -1.76 | -0.001 | -2.5 | 2.5 | PASS |
| Band 7 | 5 | 21425 | 25 | #0 | 16QAM | NV | NT | -3.23 | -0.001 | -2.5 | 2.5 | PASS |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Band 7 | 5 | 21425 | 25 | #0 | 16QAM | HV | NT | -0.30 | 0.000 | -2.5 | 2.5 | PASS |
| Band 7 | 10 | 20800 | 50 | #0 | QPSK | LV | NT | -6.25 | -0.002 | -2.5 | 2.5 | PASS |
| Band 7 | 10 | 20800 | 50 | #0 | QPSK | NV | NT | -7.52 | -0.003 | -2.5 | 2.5 | PASS |
| Band 7 | 10 | 20800 | 50 | #0 | QPSK | HV | NT | -1.34 | -0.001 | -2.5 | 2.5 | PASS |
| Band 7 | 10 | 20800 | 50 | #0 | 16QAM | LV | NT | -2.39 | -0.001 | -2.5 | 2.5 | PASS |
| Band 7 | 10 | 20800 | 50 | #0 | 16QAM | NV | NT | -2.07 | -0.001 | -2.5 | 2.5 | PASS |
| Band 7 | 10 | 20800 | 50 | #0 | 16QAM | HV | NT | -3.50 | -0.001 | -2.5 | 2.5 | PASS |
| Band 7 | 10 | 21100 | 50 | #0 | QPSK | LV | NT | -3.66 | -0.001 | -2.5 | 2.5 | PASS |
| Band 7 | 10 | 21100 | 50 | #0 | QPSK | NV | NT | -0.40 | 0.000 | -2.5 | 2.5 | PASS |
| Band 7 | 10 | 21100 | 50 | #0 | QPSK | HV | NT | -3.02 | -0.001 | -2.5 | 2.5 | PASS |
| Band 7 | 10 | 21100 | 50 | #0 | 16QAM | LV | NT | -1.47 | -0.001 | -2.5 | 2.5 | PASS |
| Band 7 | 10 | 21100 | 50 | #0 | 16QAM | NV | NT | -3.33 | -0.001 | -2.5 | 2.5 | PASS |
| Band 7 | 10 | 21100 | 50 | #0 | 16QAM | HV | NT | -2.50 | -0.001 | -2.5 | 2.5 | PASS |
| Band 7 | 10 | 21400 | 50 | #0 | QPSK | LV | NT | -1.00 | 0.000 | -2.5 | 2.5 | PASS |
| Band 7 | 10 | 21400 | 50 | #0 | QPSK | NV | NT | -1.95 | -0.001 | -2.5 | 2.5 | PASS |
| Band 7 | 10 | 21400 | 50 | #0 | QPSK | HV | NT | -4.72 | -0.002 | -2.5 | 2.5 | PASS |
| Band 7 | 10 | 21400 | 50 | #0 | 16QAM | LV | NT | -2.13 | -0.001 | -2.5 | 2.5 | PASS |
| Band 7 | 10 | 21400 | 50 | #0 | 16QAM | NV | NT | -3.75 | -0.001 | -2.5 | 2.5 | PASS |
| Band 7 | 10 | 21400 | 50 | #0 | 16QAM | HV | NT | -2.99 | -0.001 | -2.5 | 2.5 | PASS |
| Band 7 | 15 | 20825 | 75 | #0 | QPSK | LV | NT | -1.85 | -0.001 | -2.5 | 2.5 | PASS |
| Band 7 | 15 | 20825 | 75 | #0 | QPSK | NV | NT | 1.07 | 0.000 | -2.5 | 2.5 | PASS |
| Band | 15 | 20825 | 75 | #0 | QPSK | HV | NT | 2.45 | 0.001 | -2.5 | 2.5 | PASS |

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| 7 | | | | | | | | | | | | |
| Band 7 | 15 | 20825 | 75 | #0 | 16QAM | LV | NT | 1.52 | 0.001 | -2.5 | 2.5 | PASS |
| Band 7 | 15 | 20825 | 75 | #0 | 16QAM | NV | NT | 0.26 | 0.000 | -2.5 | 2.5 | PASS |
| Band 7 | 15 | 20825 | 75 | #0 | 16QAM | HV | NT | 0.63 | 0.000 | -2.5 | 2.5 | PASS |
| Band 7 | 15 | 21100 | 75 | #0 | QPSK | LV | NT | -0.34 | 0.000 | -2.5 | 2.5 | PASS |
| Band 7 | 15 | 21100 | 75 | #0 | QPSK | NV | NT | -1.75 | -0.001 | -2.5 | 2.5 | PASS |
| Band 7 | 15 | 21100 | 75 | #0 | QPSK | HV | NT | -2.43 | -0.001 | -2.5 | 2.5 | PASS |
| Band 7 | 15 | 21100 | 75 | #0 | 16QAM | LV | NT | -1.32 | -0.001 | -2.5 | 2.5 | PASS |
| Band 7 | 15 | 21100 | 75 | #0 | 16QAM | NV | NT | -0.57 | 0.000 | -2.5 | 2.5 | PASS |
| Band 7 | 15 | 21100 | 75 | #0 | 16QAM | HV | NT | 0.87 | 0.000 | -2.5 | 2.5 | PASS |
| Band 7 | 15 | 21375 | 75 | #0 | QPSK | LV | NT | -3.50 | -0.001 | -2.5 | 2.5 | PASS |
| Band 7 | 15 | 21375 | 75 | #0 | QPSK | NV | NT | -1.32 | -0.001 | -2.5 | 2.5 | PASS |
| Band 7 | 15 | 21375 | 75 | #0 | QPSK | HV | NT | -0.99 | 0.000 | -2.5 | 2.5 | PASS |
| Band 7 | 15 | 21375 | 75 | #0 | 16QAM | LV | NT | 0.56 | 0.000 | -2.5 | 2.5 | PASS |
| Band 7 | 15 | 21375 | 75 | #0 | 16QAM | NV | NT | -2.46 | -0.001 | -2.5 | 2.5 | PASS |
| Band 7 | 15 | 21375 | 75 | #0 | 16QAM | HV | NT | -2.42 | -0.001 | -2.5 | 2.5 | PASS |
| Band 7 | 20 | 20850 | 100 | #0 | QPSK | LV | NT | -2.72 | -0.001 | -2.5 | 2.5 | PASS |
| Band 7 | 20 | 20850 | 100 | #0 | QPSK | NV | NT | -1.72 | -0.001 | -2.5 | 2.5 | PASS |
| Band 7 | 20 | 20850 | 100 | #0 | QPSK | HV | NT | 0.03 | 0.000 | -2.5 | 2.5 | PASS |
| Band 7 | 20 | 20850 | 100 | #0 | 16QAM | LV | NT | -1.04 | 0.000 | -2.5 | 2.5 | PASS |
| Band 7 | 20 | 20850 | 100 | #0 | 16QAM | NV | NT | 0.82 | 0.000 | -2.5 | 2.5 | PASS |
| Band 7 | 20 | 20850 | 100 | #0 | 16QAM | HV | NT | -0.63 | 0.000 | -2.5 | 2.5 | PASS |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Band 7 | 20 | 21100 | 100 | #0 | QPSK | LV | NT | -0.92 | 0.000 | -2.5 | 2.5 | PASS |
| Band 7 | 20 | 21100 | 100 | #0 | QPSK | NV | NT | -2.96 | -0.001 | -2.5 | 2.5 | PASS |
| Band 7 | 20 | 21100 | 100 | #0 | QPSK | HV | NT | -2.66 | -0.001 | -2.5 | 2.5 | PASS |
| Band 7 | 20 | 21100 | 100 | #0 | 16QAM | LV | NT | -3.55 | -0.001 | -2.5 | 2.5 | PASS |
| Band 7 | 20 | 21100 | 100 | #0 | 16QAM | NV | NT | -4.33 | -0.002 | -2.5 | 2.5 | PASS |
| Band 7 | 20 | 21100 | 100 | #0 | 16QAM | HV | NT | -3.05 | -0.001 | -2.5 | 2.5 | PASS |
| Band 7 | 20 | 21350 | 100 | #0 | QPSK | LV | NT | 0.33 | 0.000 | -2.5 | 2.5 | PASS |
| Band 7 | 20 | 21350 | 100 | #0 | QPSK | NV | NT | -1.44 | -0.001 | -2.5 | 2.5 | PASS |
| Band 7 | 20 | 21350 | 100 | #0 | QPSK | HV | NT | -2.13 | -0.001 | -2.5 | 2.5 | PASS |
| Band 7 | 20 | 21350 | 100 | #0 | 16QAM | LV | NT | -1.10 | 0.000 | -2.5 | 2.5 | PASS |
| Band 7 | 20 | 21350 | 100 | #0 | 16QAM | NV | NT | 1.75 | 0.001 | -2.5 | 2.5 | PASS |
| Band 7 | 20 | 21350 | 100 | #0 | 16QAM | HV | NT | -3.49 | -0.001 | -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 7 | 5 | 20775 | 25 | #0 | QPSK | NV | -30 | -1.19 | 0.000 | -2.5 | 2.5 | PASS |
| Band 7 | 5 | 20775 | 25 | #0 | QPSK | NV | -20 | -4.98 | -0.002 | -2.5 | 2.5 | PASS |
| Band 7 | 5 | 20775 | 25 | #0 | QPSK | NV | 0 | -7.60 | -0.003 | -2.5 | 2.5 | PASS |
| Band 7 | 5 | 20775 | 25 | #0 | QPSK | NV | 10 | -2.76 | -0.001 | -2.5 | 2.5 | PASS |
| Band 7 | 5 | 20775 | 25 | #0 | QPSK | NV | 20 | -6.75 | -0.003 | -2.5 | 2.5 | PASS |
| Band 7 | 5 | 20775 | 25 | #0 | 16QAM | NV | -30 | -1.30 | -0.001 | -2.5 | 2.5 | PASS |
| Band 7 | 5 | 20775 | 25 | #0 | 16QAM | NV | -20 | -3.33 | -0.001 | -2.5 | 2.5 | PASS |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Band 7 | 5 | 20775 | 25 | #0 | 16QAM | NV | 0 | -1.27 | -0.001 | -2.5 | 2.5 | PASS |
| Band 7 | 5 | 20775 | 25 | #0 | 16QAM | NV | 10 | -0.80 | 0.000 | -2.5 | 2.5 | PASS |
| Band 7 | 5 | 20775 | 25 | #0 | 16QAM | NV | 20 | 1.06 | 0.000 | -2.5 | 2.5 | PASS |
| Band 7 | 5 | 21100 | 25 | #0 | QPSK | NV | -30 | 2.80 | 0.001 | -2.5 | 2.5 | PASS |
| Band 7 | 5 | 21100 | 25 | #0 | QPSK | NV | -20 | -2.80 | -0.001 | -2.5 | 2.5 | PASS |
| Band 7 | 5 | 21100 | 25 | #0 | QPSK | NV | 0 | -4.91 | -0.002 | -2.5 | 2.5 | PASS |
| Band 7 | 5 | 21100 | 25 | #0 | QPSK | NV | 10 | -4.23 | -0.002 | -2.5 | 2.5 | PASS |
| Band 7 | 5 | 21100 | 25 | #0 | QPSK | NV | 20 | -1.46 | -0.001 | -2.5 | 2.5 | PASS |
| Band 7 | 5 | 21100 | 25 | #0 | 16QAM | NV | -30 | -2.55 | -0.001 | -2.5 | 2.5 | PASS |
| Band 7 | 5 | 21100 | 25 | #0 | 16QAM | NV | -20 | -0.54 | 0.000 | -2.5 | 2.5 | PASS |
| Band 7 | 5 | 21100 | 25 | #0 | 16QAM | NV | 0 | -2.75 | -0.001 | -2.5 | 2.5 | PASS |
| Band 7 | 5 | 21100 | 25 | #0 | 16QAM | NV | 10 | -7.00 | -0.003 | -2.5 | 2.5 | PASS |
| Band 7 | 5 | 21100 | 25 | #0 | 16QAM | NV | 20 | -2.43 | -0.001 | -2.5 | 2.5 | PASS |
| Band 7 | 5 | 21425 | 25 | #0 | QPSK | NV | -30 | -5.08 | -0.002 | -2.5 | 2.5 | PASS |
| Band 7 | 5 | 21425 | 25 | #0 | QPSK | NV | -20 | -8.91 | -0.003 | -2.5 | 2.5 | PASS |
| Band 7 | 5 | 21425 | 25 | #0 | QPSK | NV | 0 | -2.96 | -0.001 | -2.5 | 2.5 | PASS |
| Band 7 | 5 | 21425 | 25 | #0 | QPSK | NV | 10 | -3.89 | -0.002 | -2.5 | 2.5 | PASS |
| Band 7 | 5 | 21425 | 25 | #0 | QPSK | NV | 20 | -3.52 | -0.001 | -2.5 | 2.5 | PASS |
| Band 7 | 5 | 21425 | 25 | #0 | 16QAM | NV | -30 | -6.31 | -0.002 | -2.5 | 2.5 | PASS |
| Band 7 | 5 | 21425 | 25 | #0 | 16QAM | NV | -20 | -2.29 | -0.001 | -2.5 | 2.5 | PASS |
| Band 7 | 5 | 21425 | 25 | #0 | 16QAM | NV | 0 | -4.58 | -0.002 | -2.5 | 2.5 | PASS |
| Band | 5 | 21425 | 25 | #0 | 16QAM | NV | 10 | -3.19 | -0.00 | -2.5 | 2.5 | PASS |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7 | | | | | | | | | 1 | | | |
| Band 7 | 5 | 21425 | 25 | #0 | 16QAM | NV | 20 | 0.70 | 0.000 | -2.5 | 2.5 | PASS |
| Band 7 | 10 | 20800 | 50 | #0 | QPSK | NV | -30 | -5.65 | -0.002 | -2.5 | 2.5 | PASS |
| Band 7 | 10 | 20800 | 50 | #0 | QPSK | NV | -20 | -6.77 | -0.003 | -2.5 | 2.5 | PASS |
| Band 7 | 10 | 20800 | 50 | #0 | QPSK | NV | 0 | -5.84 | -0.002 | -2.5 | 2.5 | PASS |
| Band 7 | 10 | 20800 | 50 | #0 | QPSK | NV | 10 | -3.73 | -0.001 | -2.5 | 2.5 | PASS |
| Band 7 | 10 | 20800 | 50 | #0 | QPSK | NV | 20 | -1.03 | 0.000 | -2.5 | 2.5 | PASS |
| Band 7 | 10 | 20800 | 50 | #0 | 16QAM | NV | -30 | -1.33 | -0.001 | -2.5 | 2.5 | PASS |
| Band 7 | 10 | 20800 | 50 | #0 | 16QAM | NV | -20 | -2.46 | -0.001 | -2.5 | 2.5 | PASS |
| Band 7 | 10 | 20800 | 50 | #0 | 16QAM | NV | 0 | -3.46 | -0.001 | -2.5 | 2.5 | PASS |
| Band 7 | 10 | 20800 | 50 | #0 | 16QAM | NV | 10 | -3.65 | -0.001 | -2.5 | 2.5 | PASS |
| Band 7 | 10 | 20800 | 50 | #0 | 16QAM | NV | 20 | -4.06 | -0.002 | -2.5 | 2.5 | PASS |
| Band 7 | 10 | 21100 | 50 | #0 | QPSK | NV | -30 | -2.15 | -0.001 | -2.5 | 2.5 | PASS |
| Band 7 | 10 | 21100 | 50 | #0 | QPSK | NV | -20 | -5.92 | -0.002 | -2.5 | 2.5 | PASS |
| Band 7 | 10 | 21100 | 50 | #0 | QPSK | NV | 0 | -2.03 | -0.001 | -2.5 | 2.5 | PASS |
| Band 7 | 10 | 21100 | 50 | #0 | QPSK | NV | 10 | -3.43 | -0.001 | -2.5 | 2.5 | PASS |
| Band 7 | 10 | 21100 | 50 | #0 | QPSK | NV | 20 | -4.38 | -0.002 | -2.5 | 2.5 | PASS |
| Band 7 | 10 | 21100 | 50 | #0 | 16QAM | NV | -30 | -5.59 | -0.002 | -2.5 | 2.5 | PASS |
| Band 7 | 10 | 21100 | 50 | #0 | 16QAM | NV | -20 | -4.72 | -0.002 | -2.5 | 2.5 | PASS |
| Band 7 | 10 | 21100 | 50 | #0 | 16QAM | NV | 0 | -2.07 | -0.001 | -2.5 | 2.5 | PASS |
| Band 7 | 10 | 21100 | 50 | #0 | 16QAM | NV | 10 | -2.23 | -0.001 | -2.5 | 2.5 | PASS |
| Band 7 | 10 | 21100 | 50 | #0 | 16QAM | NV | 20 | -6.02 | -0.002 | -2.5 | 2.5 | PASS |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Band 7 | 10 | 21400 | 50 | #0 | QPSK | NV | -30 | -2.36 | -0.001 | -2.5 | 2.5 | PASS |
| Band 7 | 10 | 21400 | 50 | #0 | QPSK | NV | -20 | -2.50 | -0.001 | -2.5 | 2.5 | PASS |
| Band 7 | 10 | 21400 | 50 | #0 | QPSK | NV | 0 | -3.55 | -0.001 | -2.5 | 2.5 | PASS |
| Band 7 | 10 | 21400 | 50 | #0 | QPSK | NV | 10 | -0.44 | 0.000 | -2.5 | 2.5 | PASS |
| Band 7 | 10 | 21400 | 50 | #0 | QPSK | NV | 20 | -4.02 | -0.002 | -2.5 | 2.5 | PASS |
| Band 7 | 10 | 21400 | 50 | #0 | 16QAM | NV | -30 | -3.12 | -0.001 | -2.5 | 2.5 | PASS |
| Band 7 | 10 | 21400 | 50 | #0 | 16QAM | NV | -20 | -2.49 | -0.001 | -2.5 | 2.5 | PASS |
| Band 7 | 10 | 21400 | 50 | #0 | 16QAM | NV | 0 | -1.62 | -0.001 | -2.5 | 2.5 | PASS |
| Band 7 | 10 | 21400 | 50 | #0 | 16QAM | NV | 10 | -4.73 | -0.002 | -2.5 | 2.5 | PASS |
| Band 7 | 10 | 21400 | 50 | #0 | 16QAM | NV | 20 | -3.66 | -0.001 | -2.5 | 2.5 | PASS |
| Band 7 | 15 | 20825 | 75 | #0 | QPSK | NV | -30 | -2.57 | -0.001 | -2.5 | 2.5 | PASS |
| Band 7 | 15 | 20825 | 75 | #0 | QPSK | NV | -20 | 2.12 | 0.001 | -2.5 | 2.5 | PASS |
| Band 7 | 15 | 20825 | 75 | #0 | QPSK | NV | 0 | 0.73 | 0.000 | -2.5 | 2.5 | PASS |
| Band 7 | 15 | 20825 | 75 | #0 | QPSK | NV | 10 | 0.79 | 0.000 | -2.5 | 2.5 | PASS |
| Band 7 | 15 | 20825 | 75 | #0 | QPSK | NV | 20 | -1.12 | 0.000 | -2.5 | 2.5 | PASS |
| Band 7 | 15 | 20825 | 75 | #0 | 16QAM | NV | -30 | 1.96 | 0.001 | -2.5 | 2.5 | PASS |
| Band 7 | 15 | 20825 | 75 | #0 | 16QAM | NV | -20 | 1.14 | 0.000 | -2.5 | 2.5 | PASS |
| Band 7 | 15 | 20825 | 75 | #0 | 16QAM | NV | 0 | -0.09 | 0.000 | -2.5 | 2.5 | PASS |
| Band 7 | 15 | 20825 | 75 | #0 | 16QAM | NV | 10 | 2.02 | 0.001 | -2.5 | 2.5 | PASS |
| Band 7 | 15 | 20825 | 75 | #0 | 16QAM | NV | 20 | 0.59 | 0.000 | -2.5 | 2.5 | PASS |
| Band 7 | 15 | 21100 | 75 | #0 | QPSK | NV | -30 | -6.39 | -0.003 | -2.5 | 2.5 | PASS |
| Band | 15 | 21100 | 75 | #0 | QPSK | NV | -20 | -4.56 | -0.00 | -2.5 | 2.5 | PASS |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7 | | | | | | | | | 2 | | | |
| Band 7 | 15 | 21100 | 75 | #0 | QPSK | NV | 0 | -5.08 | -0.002 | -2.5 | 2.5 | PASS |
| Band 7 | 15 | 21100 | 75 | #0 | QPSK | NV | 10 | -4.32 | -0.002 | -2.5 | 2.5 | PASS |
| Band 7 | 15 | 21100 | 75 | #0 | QPSK | NV | 20 | -2.22 | -0.001 | -2.5 | 2.5 | PASS |
| Band 7 | 15 | 21100 | 75 | #0 | 16QAM | NV | -30 | -5.99 | -0.002 | -2.5 | 2.5 | PASS |
| Band 7 | 15 | 21100 | 75 | #0 | 16QAM | NV | -20 | -5.04 | -0.002 | -2.5 | 2.5 | PASS |
| Band 7 | 15 | 21100 | 75 | #0 | 16QAM | NV | 0 | -3.59 | -0.001 | -2.5 | 2.5 | PASS |
| Band 7 | 15 | 21100 | 75 | #0 | 16QAM | NV | 10 | -4.94 | -0.002 | -2.5 | 2.5 | PASS |
| Band 7 | 15 | 21100 | 75 | #0 | 16QAM | NV | 20 | -4.88 | -0.002 | -2.5 | 2.5 | PASS |
| Band 7 | 15 | 21375 | 75 | #0 | QPSK | NV | -30 | -3.30 | -0.001 | -2.5 | 2.5 | PASS |
| Band 7 | 15 | 21375 | 75 | #0 | QPSK | NV | -20 | -2.19 | -0.001 | -2.5 | 2.5 | PASS |
| Band 7 | 15 | 21375 | 75 | #0 | QPSK | NV | 0 | -1.37 | -0.001 | -2.5 | 2.5 | PASS |
| Band 7 | 15 | 21375 | 75 | #0 | QPSK | NV | 10 | -4.22 | -0.002 | -2.5 | 2.5 | PASS |
| Band 7 | 15 | 21375 | 75 | #0 | QPSK | NV | 20 | -1.56 | -0.001 | -2.5 | 2.5 | PASS |
| Band 7 | 15 | 21375 | 75 | #0 | 16QAM | NV | -30 | -2.93 | -0.001 | -2.5 | 2.5 | PASS |
| Band 7 | 15 | 21375 | 75 | #0 | 16QAM | NV | -20 | -1.83 | -0.001 | -2.5 | 2.5 | PASS |
| Band 7 | 15 | 21375 | 75 | #0 | 16QAM | NV | 0 | 0.04 | 0.000 | -2.5 | 2.5 | PASS |
| Band 7 | 15 | 21375 | 75 | #0 | 16QAM | NV | 10 | 0.29 | 0.000 | -2.5 | 2.5 | PASS |
| Band 7 | 15 | 21375 | 75 | #0 | 16QAM | NV | 20 | -0.29 | 0.000 | -2.5 | 2.5 | PASS |
| Band 7 | 20 | 20850 | 100 | #0 | QPSK | NV | -30 | -2.47 | -0.001 | -2.5 | 2.5 | PASS |
| Band 7 | 20 | 20850 | 100 | #0 | QPSK | NV | -20 | -2.43 | -0.001 | -2.5 | 2.5 | PASS |
| Band 7 | 20 | 20850 | 100 | #0 | QPSK | NV | 0 | -4.26 | -0.002 | -2.5 | 2.5 | PASS |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Band 7 | 20 | 20850 | 100 | #0 | QPSK | NV | 10 | -4.15 | -0.002 | -2.5 | 2.5 | PASS |
| Band 7 | 20 | 20850 | 100 | #0 | QPSK | NV | 20 | -2.90 | -0.001 | -2.5 | 2.5 | PASS |
| Band 7 | 20 | 20850 | 100 | #0 | 16QAM | NV | -30 | -0.72 | 0.000 | -2.5 | 2.5 | PASS |
| Band 7 | 20 | 20850 | 100 | #0 | 16QAM | NV | -20 | -2.06 | -0.001 | -2.5 | 2.5 | PASS |
| Band 7 | 20 | 20850 | 100 | #0 | 16QAM | NV | 0 | -1.42 | -0.001 | -2.5 | 2.5 | PASS |
| Band 7 | 20 | 20850 | 100 | #0 | 16QAM | NV | 10 | -1.59 | -0.001 | -2.5 | 2.5 | PASS |
| Band 7 | 20 | 20850 | 100 | #0 | 16QAM | NV | 20 | -2.03 | -0.001 | -2.5 | 2.5 | PASS |
| Band 7 | 20 | 21100 | 100 | #0 | QPSK | NV | -30 | -3.73 | -0.001 | -2.5 | 2.5 | PASS |
| Band 7 | 20 | 21100 | 100 | #0 | QPSK | NV | -20 | -3.76 | -0.001 | -2.5 | 2.5 | PASS |
| Band 7 | 20 | 21100 | 100 | #0 | QPSK | NV | 0 | -3.96 | -0.002 | -2.5 | 2.5 | PASS |
| Band 7 | 20 | 21100 | 100 | #0 | QPSK | NV | 10 | -2.93 | -0.001 | -2.5 | 2.5 | PASS |
| Band 7 | 20 | 21100 | 100 | #0 | QPSK | NV | 20 | -6.28 | -0.002 | -2.5 | 2.5 | PASS |
| Band 7 | 20 | 21100 | 100 | #0 | 16QAM | NV | -30 | -6.24 | -0.002 | -2.5 | 2.5 | PASS |
| Band 7 | 20 | 21100 | 100 | #0 | 16QAM | NV | -20 | -3.98 | -0.002 | -2.5 | 2.5 | PASS |
| Band 7 | 20 | 21100 | 100 | #0 | 16QAM | NV | 0 | -7.11 | -0.003 | -2.5 | 2.5 | PASS |
| Band 7 | 20 | 21100 | 100 | #0 | 16QAM | NV | 10 | -5.24 | -0.002 | -2.5 | 2.5 | PASS |
| Band 7 | 20 | 21100 | 100 | #0 | 16QAM | NV | 20 | -5.99 | -0.002 | -2.5 | 2.5 | PASS |
| Band 7 | 20 | 21350 | 100 | #0 | QPSK | NV | -30 | -4.23 | -0.002 | -2.5 | 2.5 | PASS |
| Band 7 | 20 | 21350 | 100 | #0 | QPSK | NV | -20 | -3.40 | -0.001 | -2.5 | 2.5 | PASS |
| Band 7 | 20 | 21350 | 100 | #0 | QPSK | NV | 0 | -3.63 | -0.001 | -2.5 | 2.5 | PASS |
| Band 7 | 20 | 21350 | 100 | #0 | QPSK | NV | 10 | -3.73 | -0.001 | -2.5 | 2.5 | PASS |
| Band | 20 | 21350 | 100 | #0 | QPSK | NV | 20 | -6.42 | -0.00 | -2.5 | 2.5 | PASS |

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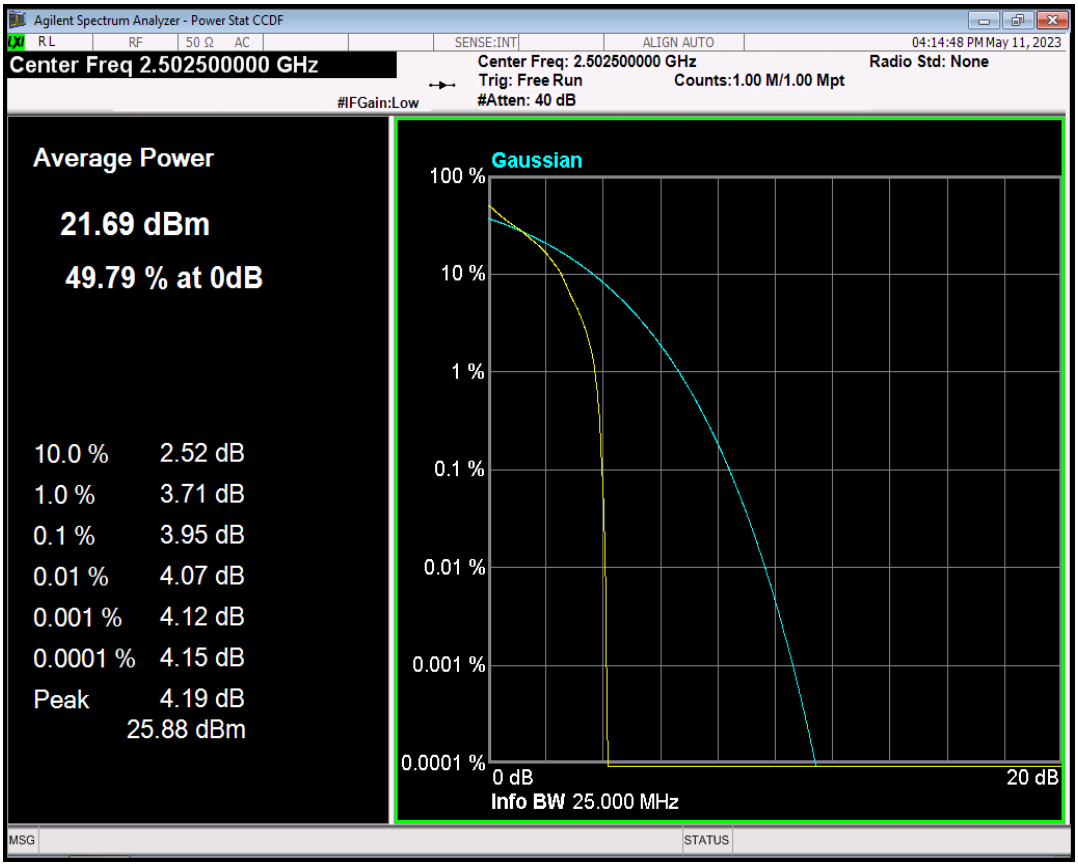
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7 | | | | | | | | | 3 | | | |
| Band 7 | 20 | 21350 | 100 | #0 | 16QAM | NV | -30 | -4.53 | -0.002 | -2.5 | 2.5 | PASS |
| Band 7 | 20 | 21350 | 100 | #0 | 16QAM | NV | -20 | -2.09 | -0.001 | -2.5 | 2.5 | PASS |
| Band 7 | 20 | 21350 | 100 | #0 | 16QAM | NV | 0 | -1.03 | 0.000 | -2.5 | 2.5 | PASS |
| Band 7 | 20 | 21350 | 100 | #0 | 16QAM | NV | 10 | -3.76 | -0.001 | -2.5 | 2.5 | PASS |
| Band 7 | 20 | 21350 | 100 | #0 | 16QAM | NV | 20 | -0.57 | 0.000 | -2.5 | 2.5 | PASS |

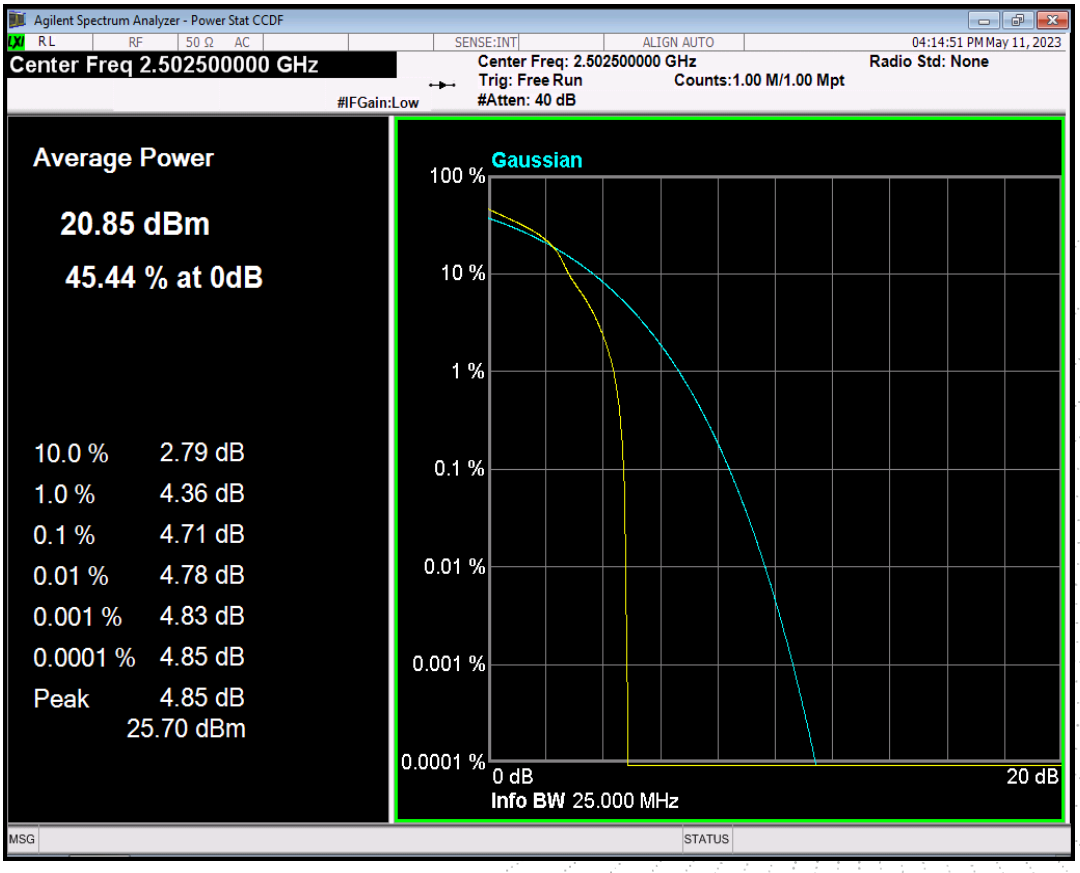
## Appendix 3. Peak-to-Average Ratio

| Band | Bandwidth (MHz) | UL Channel | RB Size | RB Position | Modulation | Result (dB) | high Limit (dB) | Verdict |
|---|---|---|---|---|---|---|---|---|
| Band7 | 5 | 20775 | 1 | #0 | QPSK | 3.95 | 13 | PASS |
| Band7 | 5 | 20775 | 1 | #0 | 16QAM | 4.71 | 13 | PASS |
| Band7 | 5 | 21100 | 1 | #0 | QPSK | 4.60 | 13 | PASS |
| Band7 | 5 | 21100 | 1 | #0 | 16QAM | 5.26 | 13 | PASS |
| Band7 | 5 | 21425 | 1 | #0 | QPSK | 4.09 | 13 | PASS |
| Band7 | 5 | 21425 | 1 | #0 | 16QAM | 4.97 | 13 | PASS |
| Band7 | 10 | 20800 | 1 | #0 | QPSK | 3.83 | 13 | PASS |
| Band7 | 10 | 20800 | 1 | #0 | 16QAM | 4.72 | 13 | PASS |
| Band7 | 10 | 21100 | 1 | #0 | QPSK | 4.50 | 13 | PASS |
| Band7 | 10 | 21100 | 1 | #0 | 16QAM | 5.50 | 13 | PASS |
| Band7 | 10 | 21400 | 1 | #0 | QPSK | 3.76 | 13 | PASS |
| Band7 | 10 | 21400 | 1 | #0 | 16QAM | 4.63 | 13 | PASS |
| Band7 | 15 | 20825 | 1 | #0 | QPSK | 3.84 | 13 | PASS |
| Band7 | 15 | 20825 | 1 | #0 | 16QAM | 4.76 | 13 | PASS |
| Band7 | 15 | 21100 | 1 | #0 | QPSK | 4.39 | 13 | PASS |
| Band7 | 15 | 21100 | 1 | #0 | 16QAM | 5.28 | 13 | PASS |
| Band7 | 15 | 21375 | 1 | #0 | QPSK | 3.46 | 13 | PASS |
| Band7 | 15 | 21375 | 1 | #0 | 16QAM | 4.49 | 13 | PASS |
| Band7 | 20 | 20850 | 1 | #0 | QPSK | 3.90 | 13 | PASS |
| Band7 | 20 | 20850 | 1 | #0 | 16QAM | 4.70 | 13 | PASS |
| Band7 | 20 | 21100 | 1 | #0 | QPSK | 4.15 | 13 | PASS |
| Band7 | 20 | 21100 | 1 | #0 | 16QAM | 5.04 | 13 | PASS |
| Band7 | 20 | 21350 | 1 | #0 | QPSK | 3.53 | 13 | PASS |
| Band7 | 20 | 21350 | 1 | #0 | 16QAM | 4.59 | 13 | PASS |

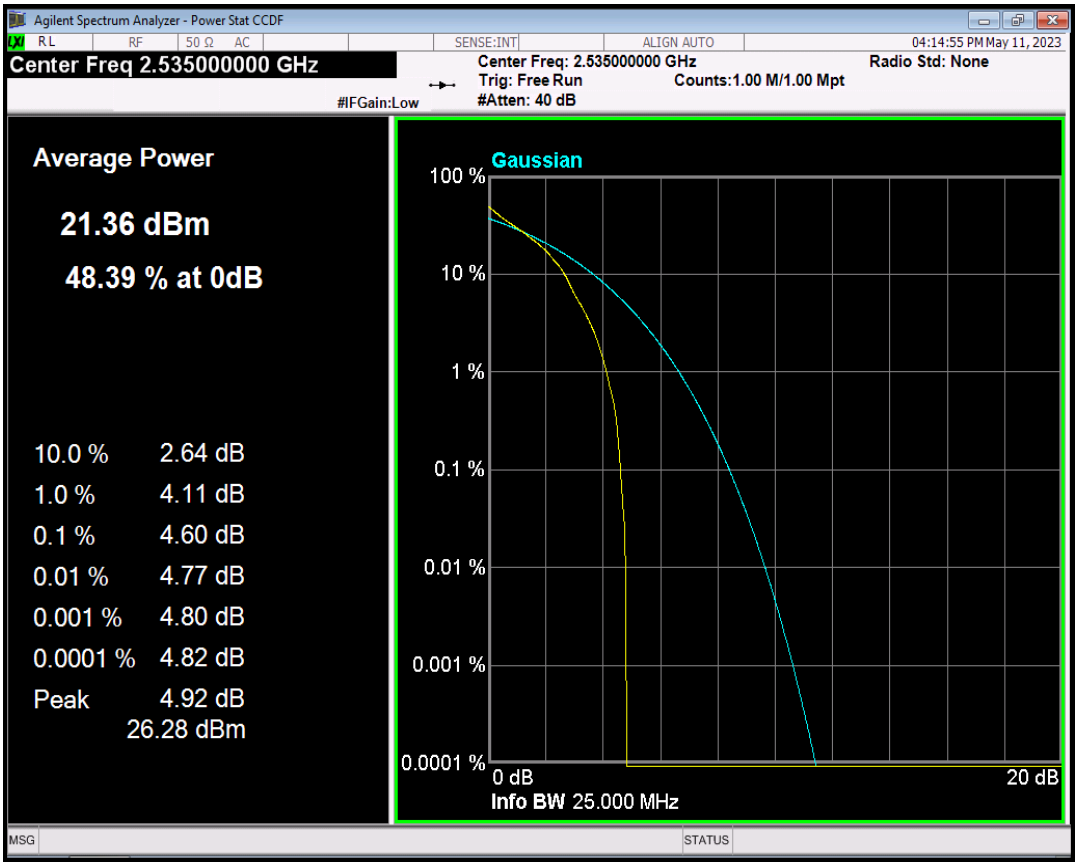
Band7 QPSK BW=5MHz Channel=20775 RB Size=1 Position=#0



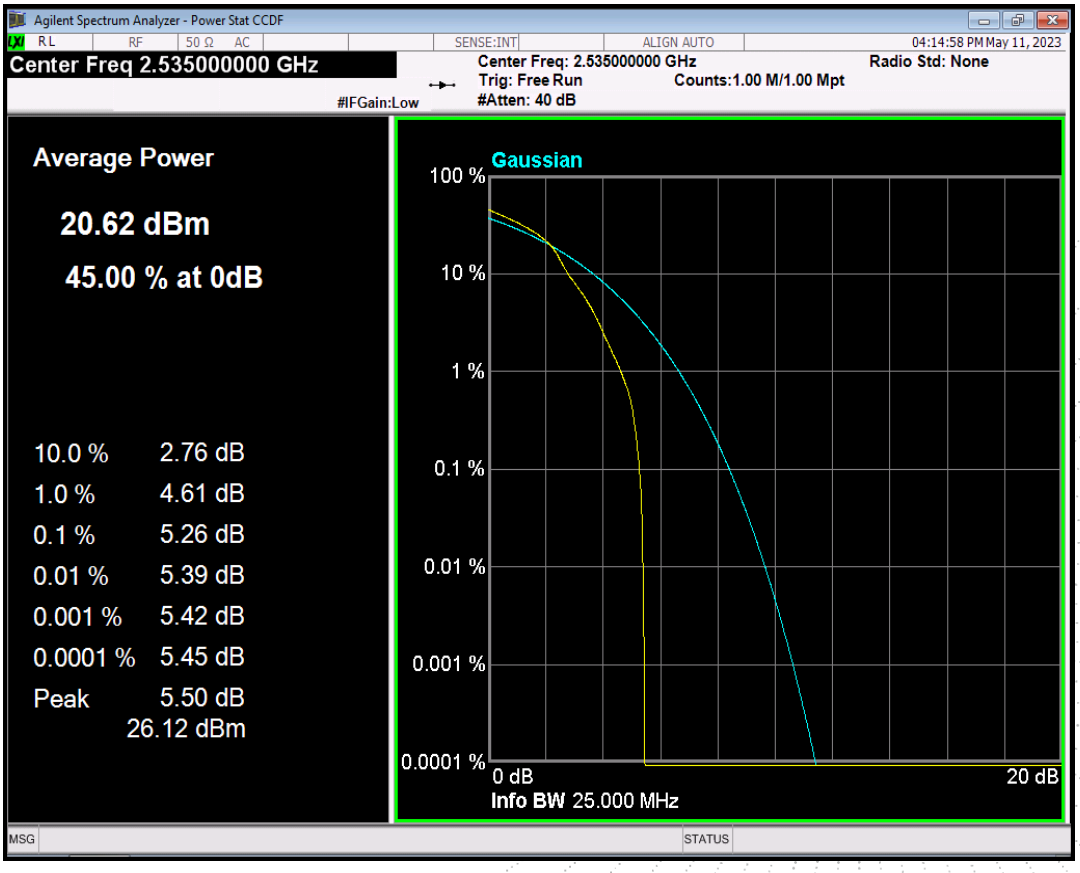

Band7 16QAM BW=5MHz Channel=20775 RB Size=1 Position=#0



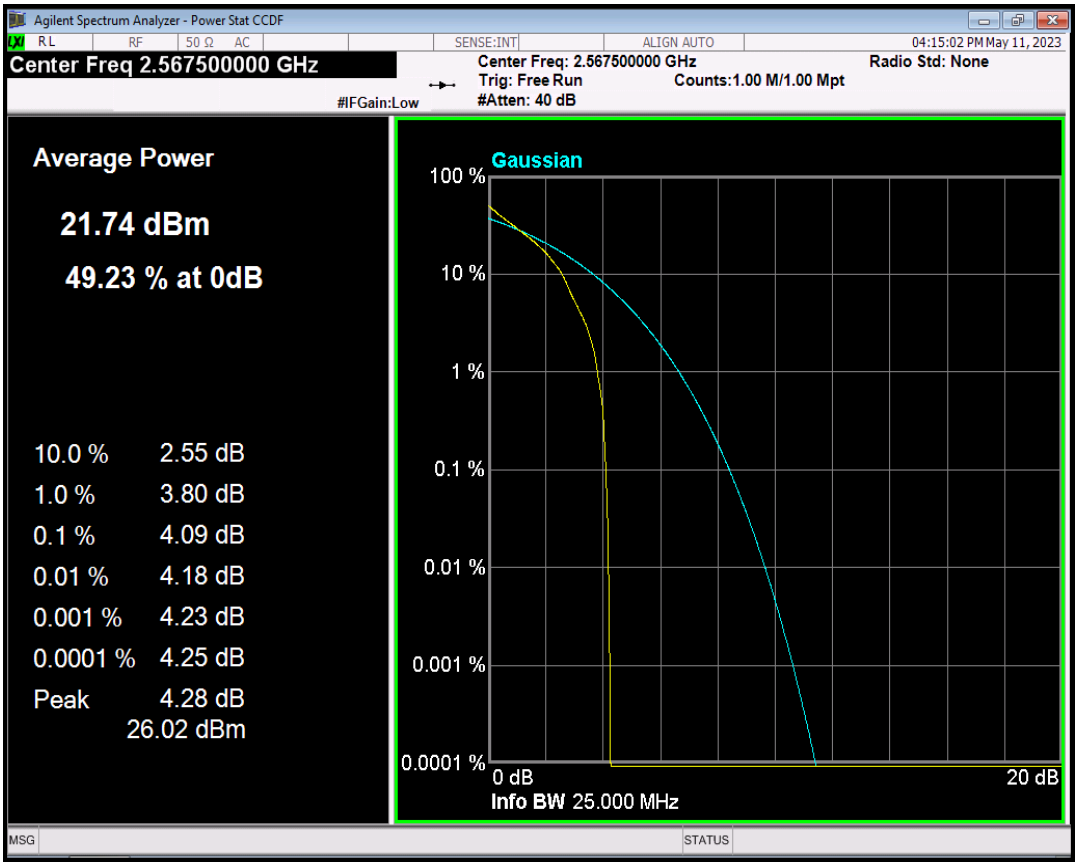

Band7 QPSK BW=5MHz Channel=21100 RB Size=1 Position=#0



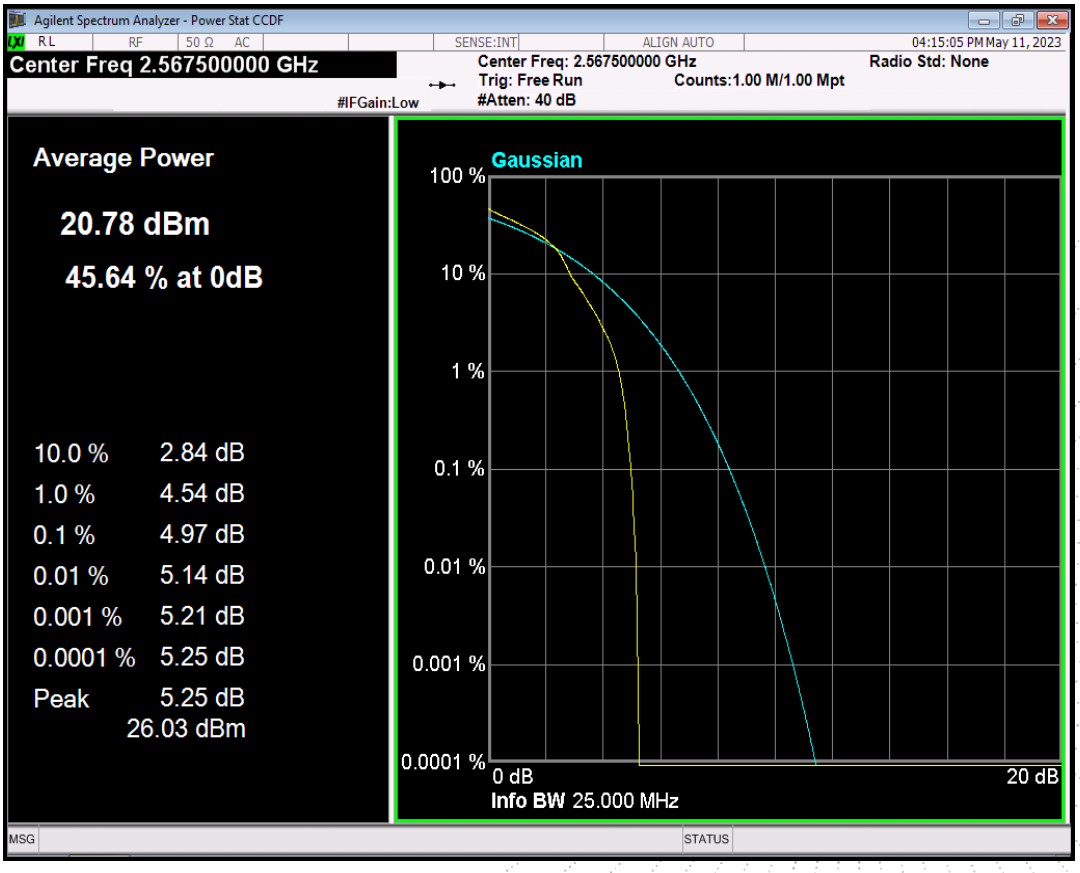

Band7 16QAM BW=5MHz Channel=21100 RB Size=1 Position=#0



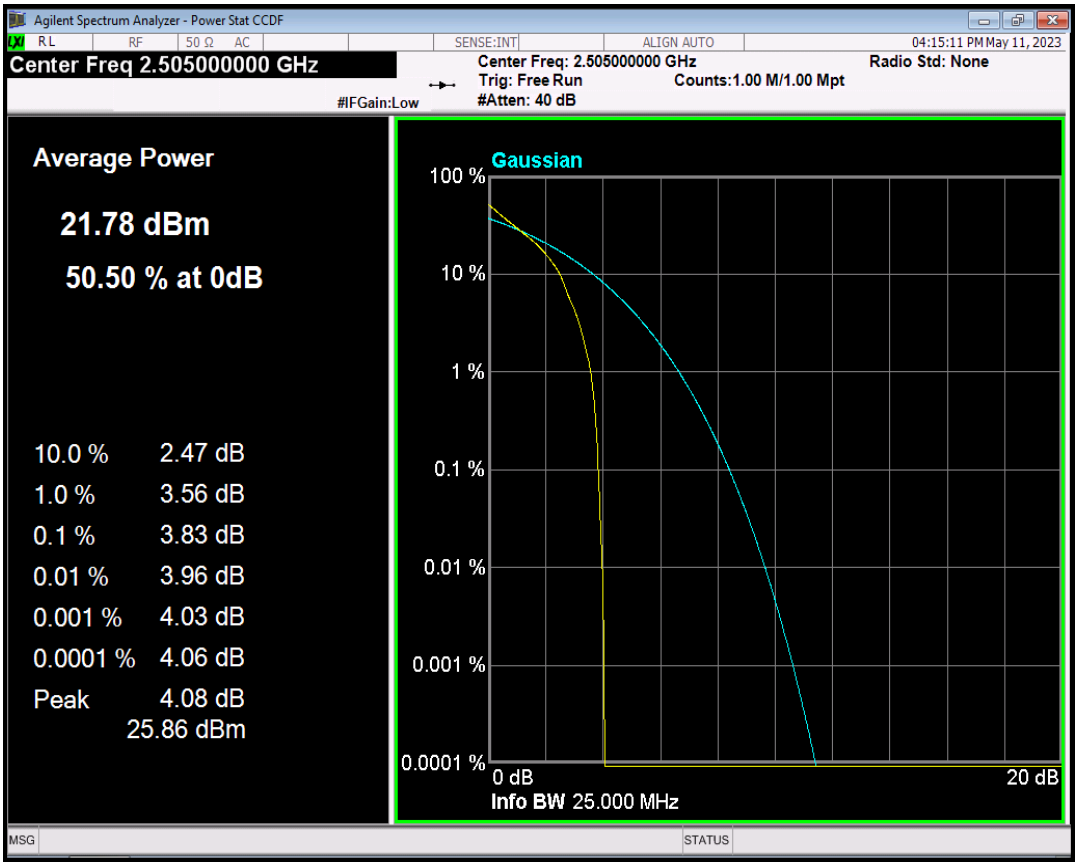

Band7 QPSK BW=5MHz Channel=21425 RB Size=1 Position=#0



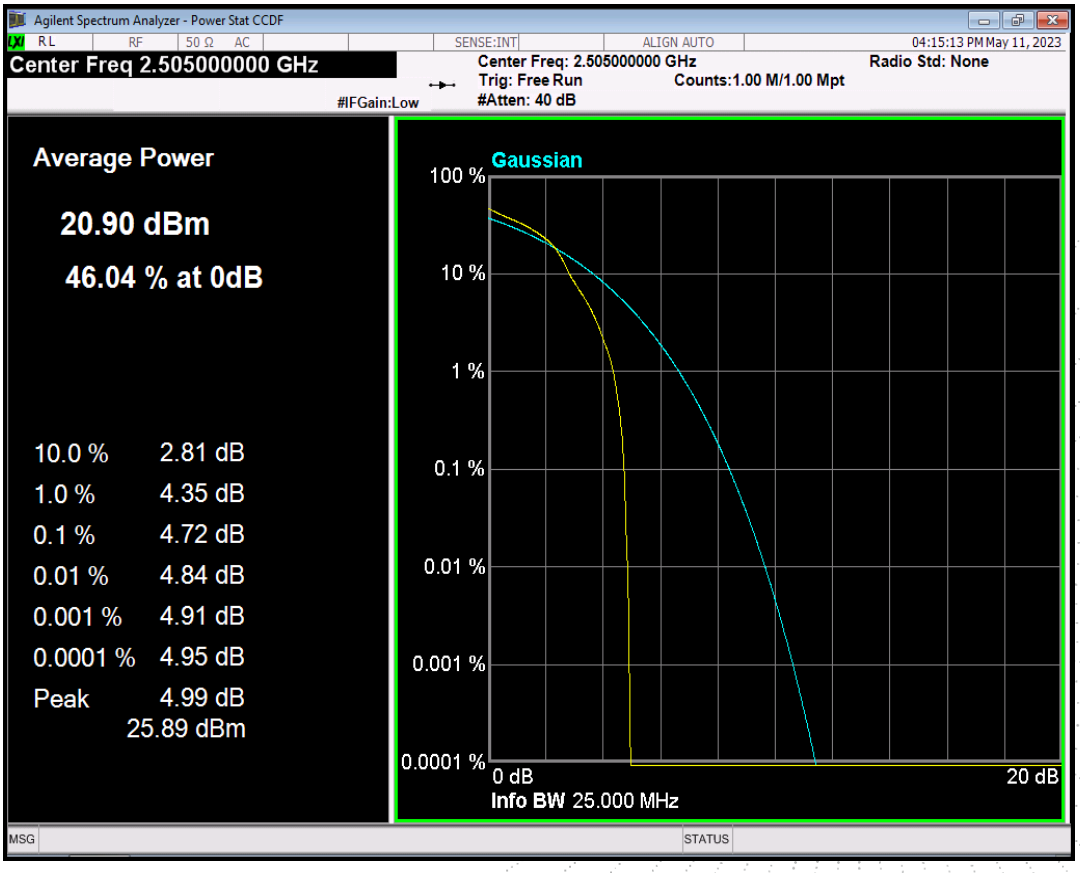

Band7 16QAM BW=5MHz Channel=21425 RB Size=1 Position=#0



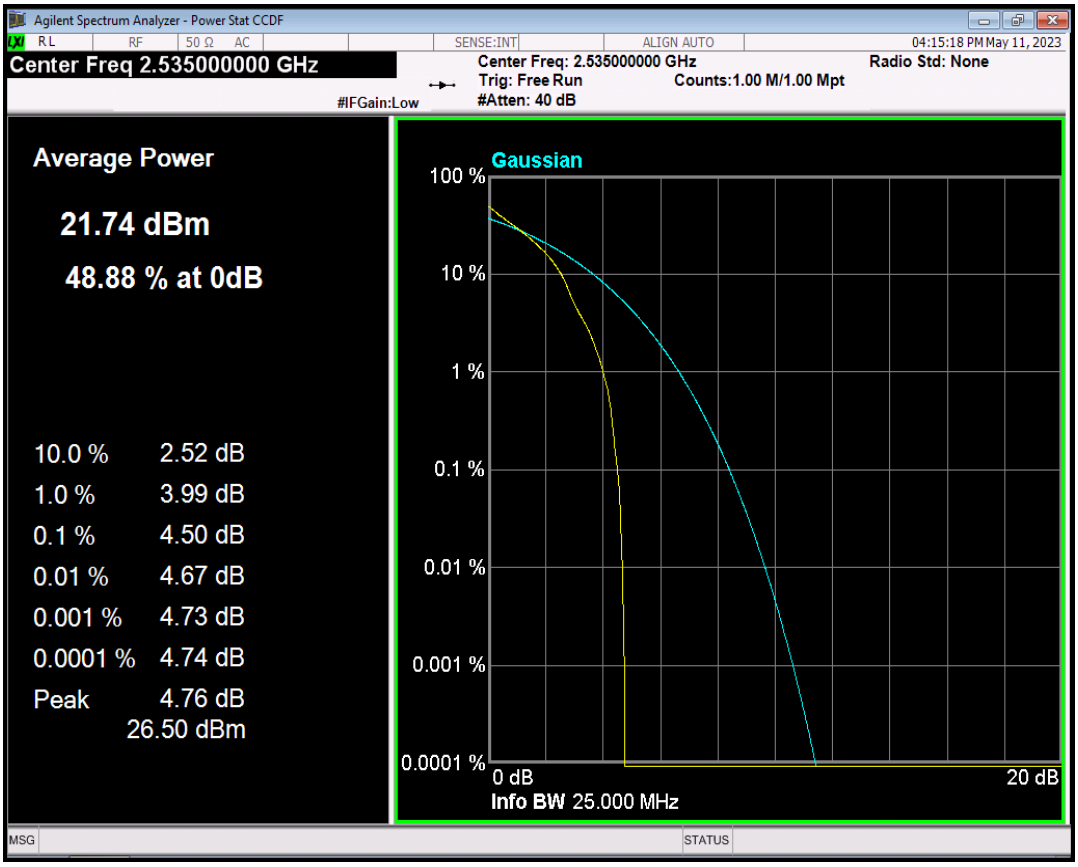

Band7 QPSK BW=10MHz Channel=20800 RB Size=1 Position=#0



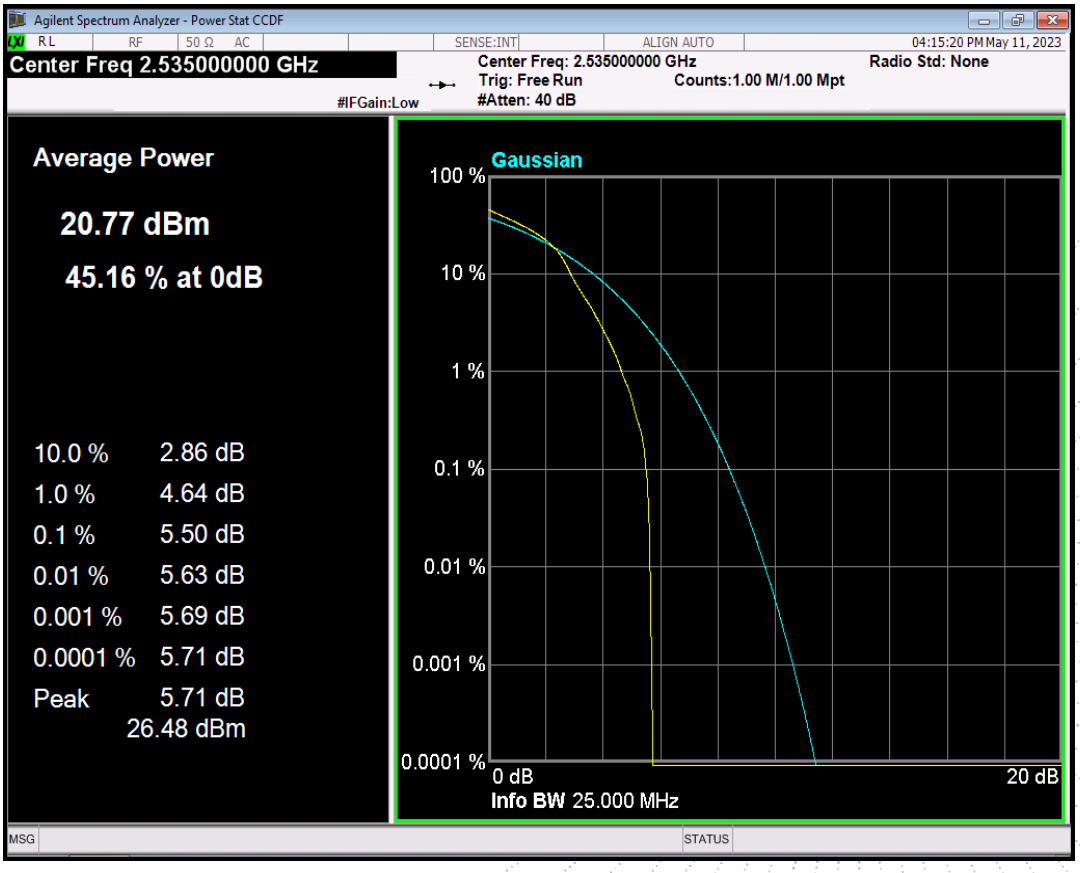

Band7 16QAM BW=10MHz Channel=20800 RB Size=1 Position=#0



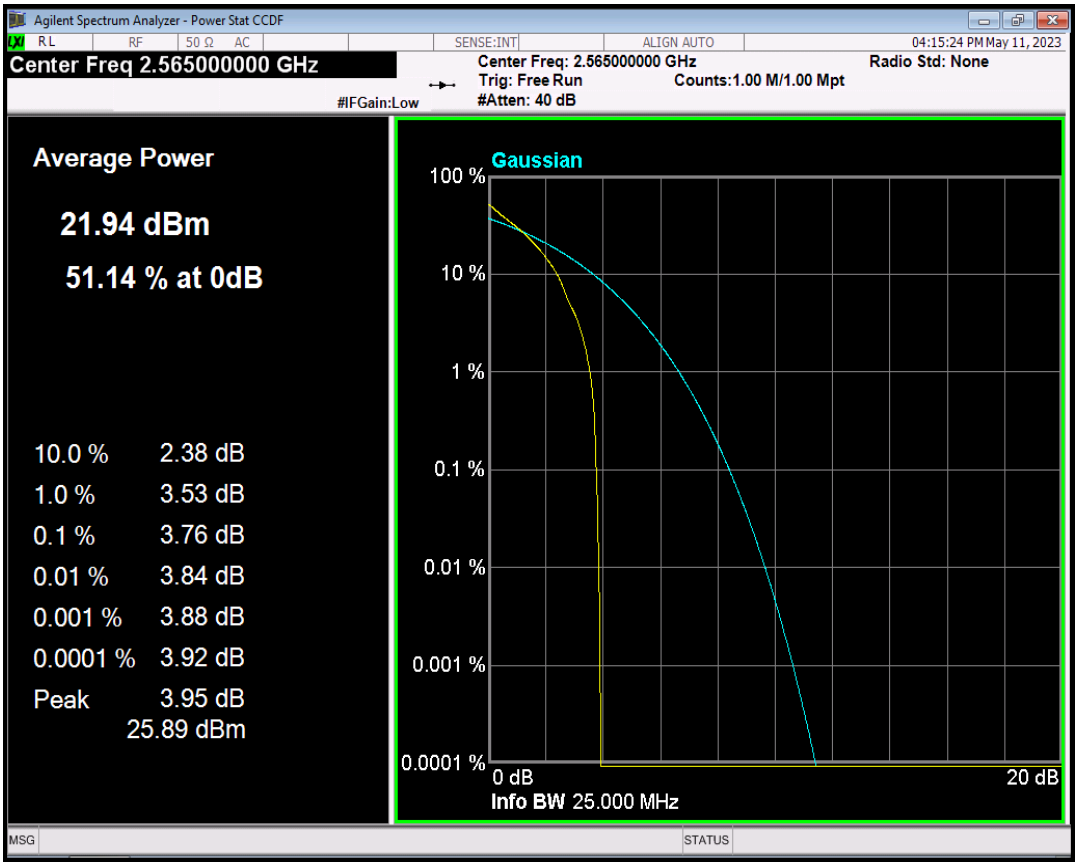

Band7 QPSK BW=10MHz Channel=21100 RB Size=1 Position=#0



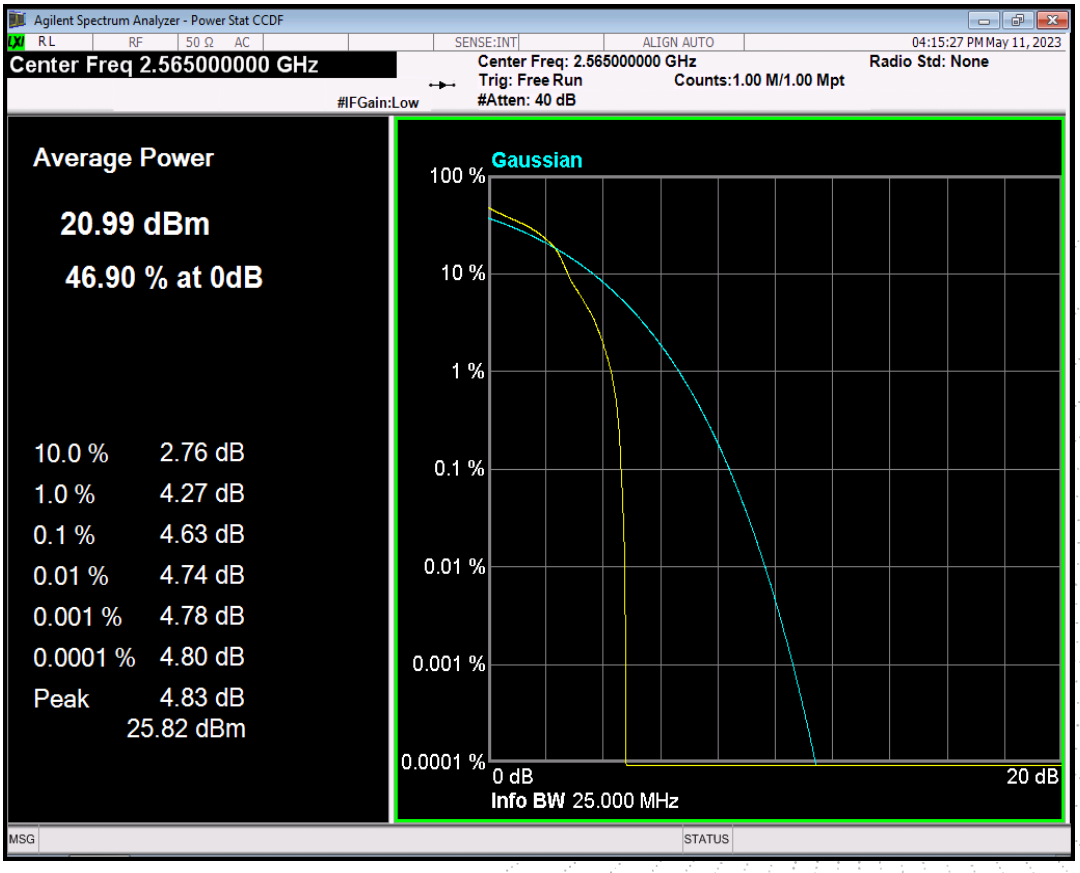

Band7 16QAM BW=10MHz Channel=21100 RB Size=1 Position=#0



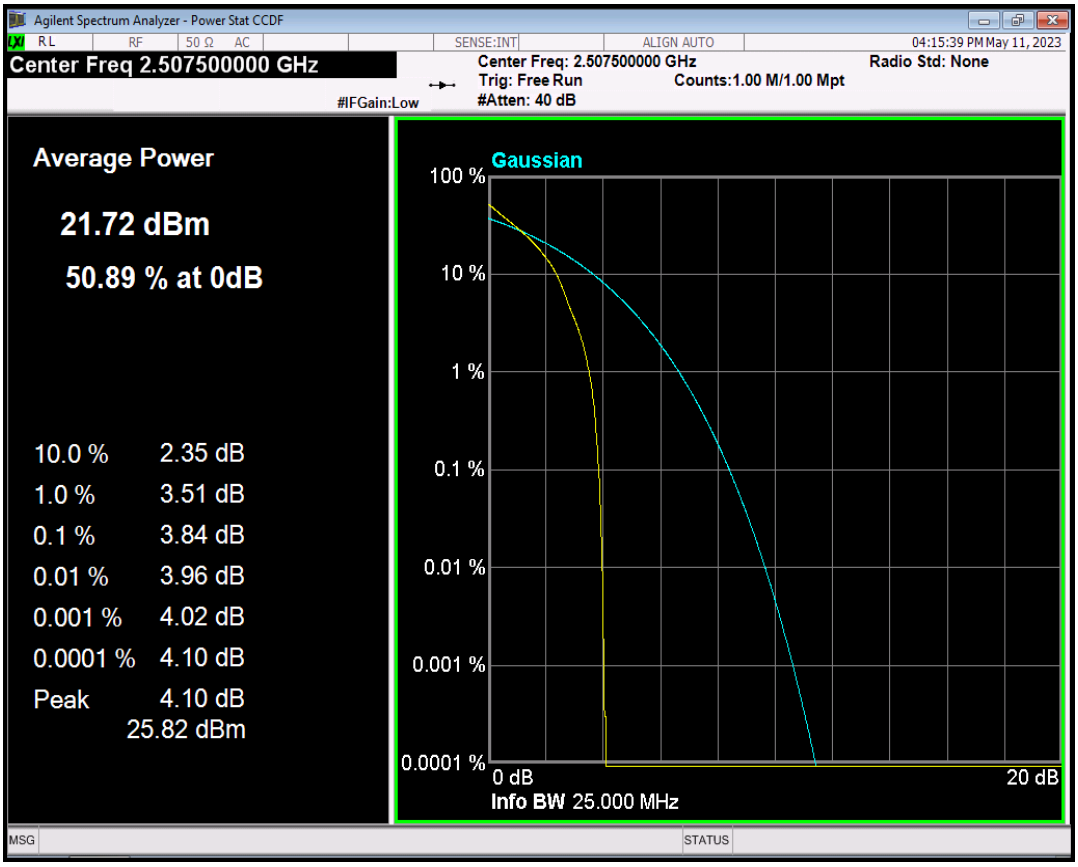

Band7 QPSK BW=10MHz Channel=21400 RB Size=1 Position=#0



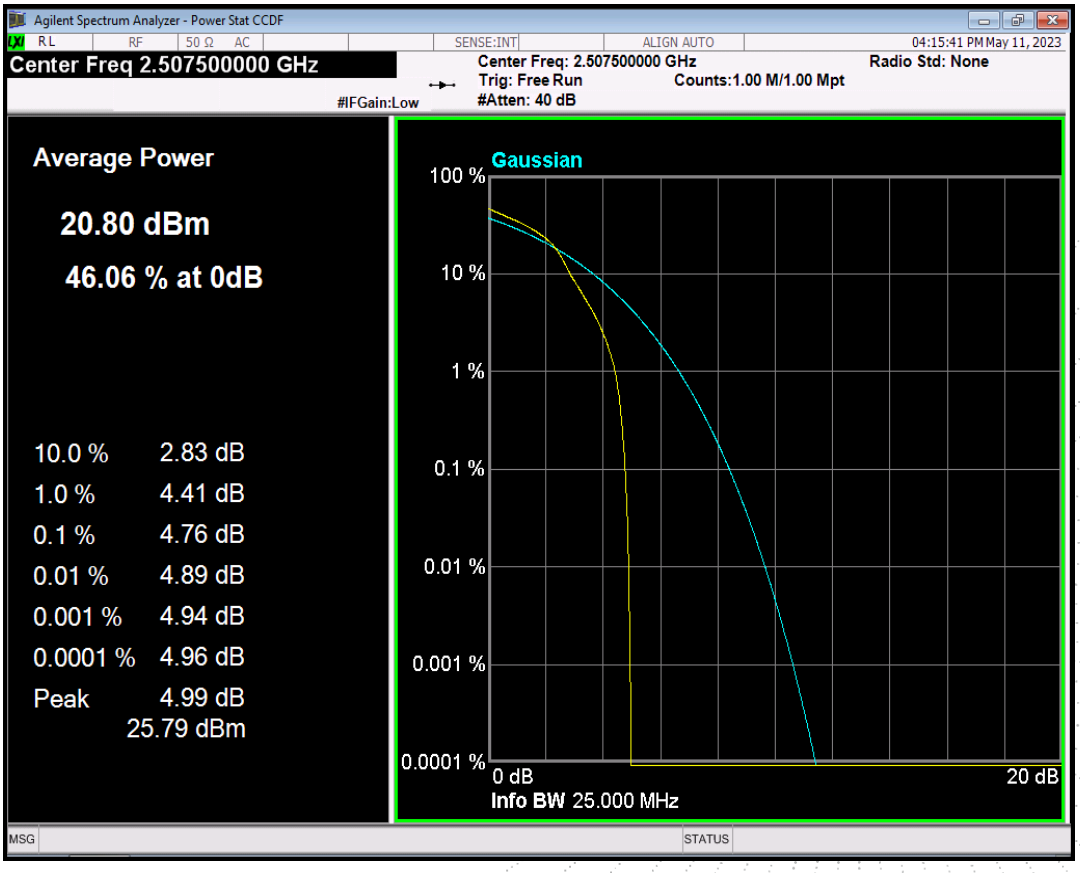

Band7 16QAM BW=10MHz Channel=21400 RB Size=1 Position=#0



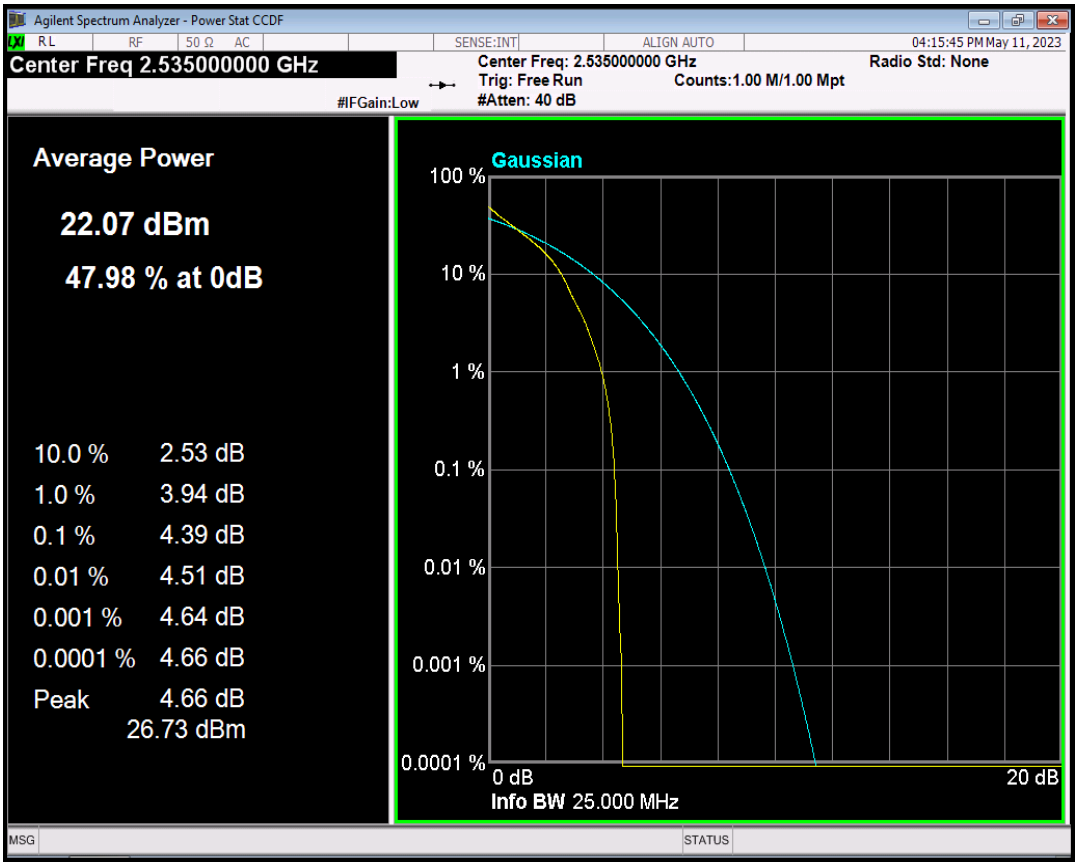

Band7 QPSK BW=15MHz Channel=20825 RB Size=1 Position=#0



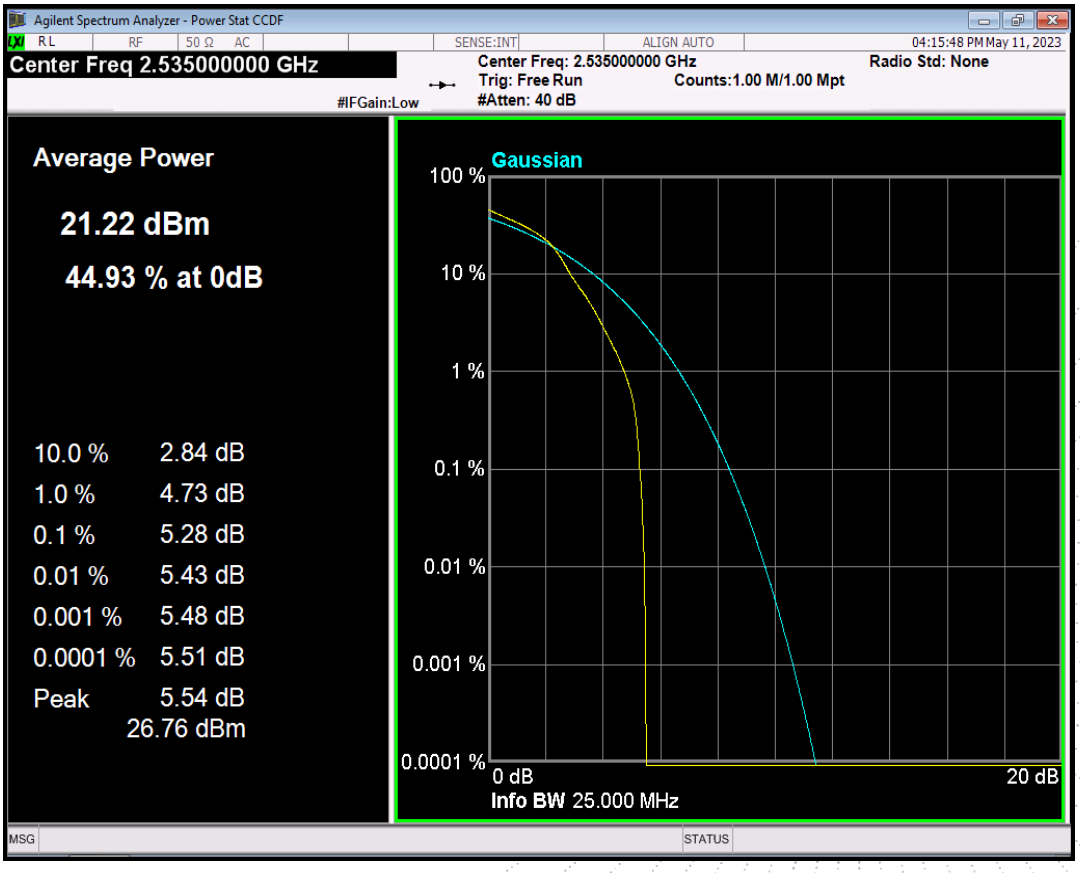

Band7 16QAM BW=15MHz Channel=20825 RB Size=1 Position=#0



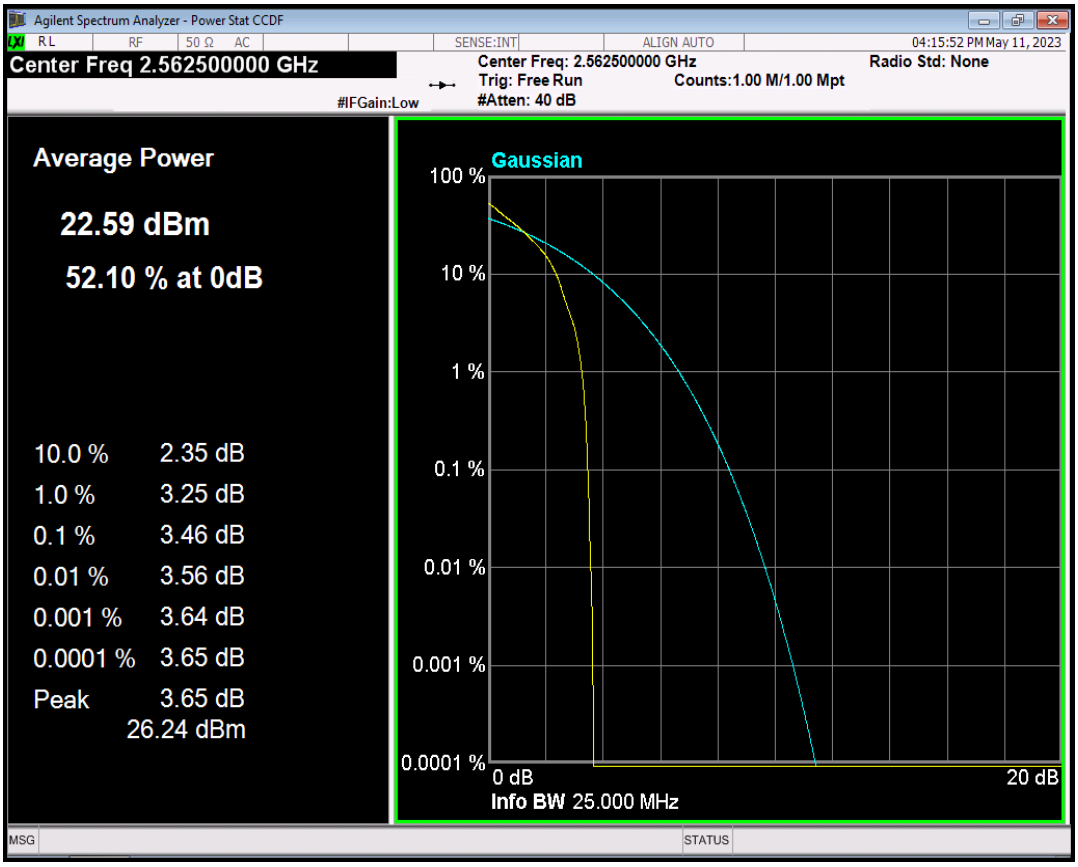

Band7 QPSK BW=15MHz Channel=21100 RB Size=1 Position=#0



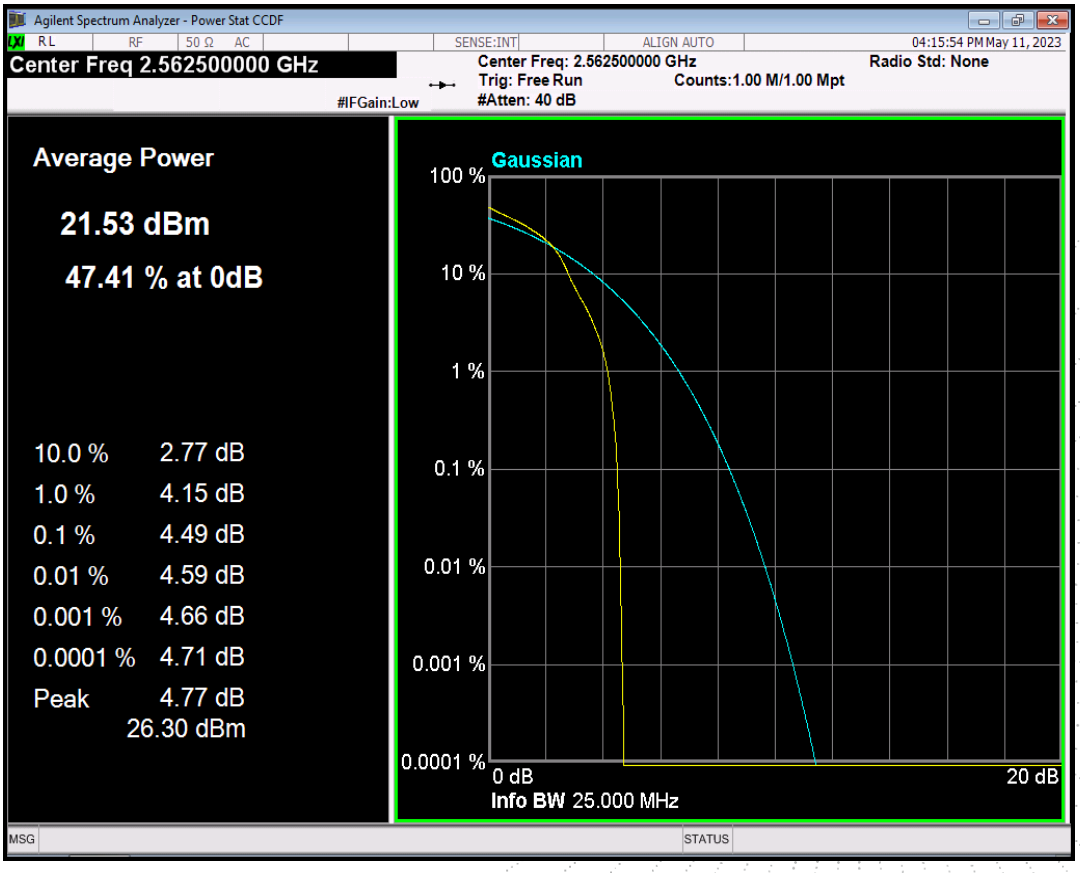

Band7 16QAM BW=15MHz Channel=21100 RB Size=1 Position=#0



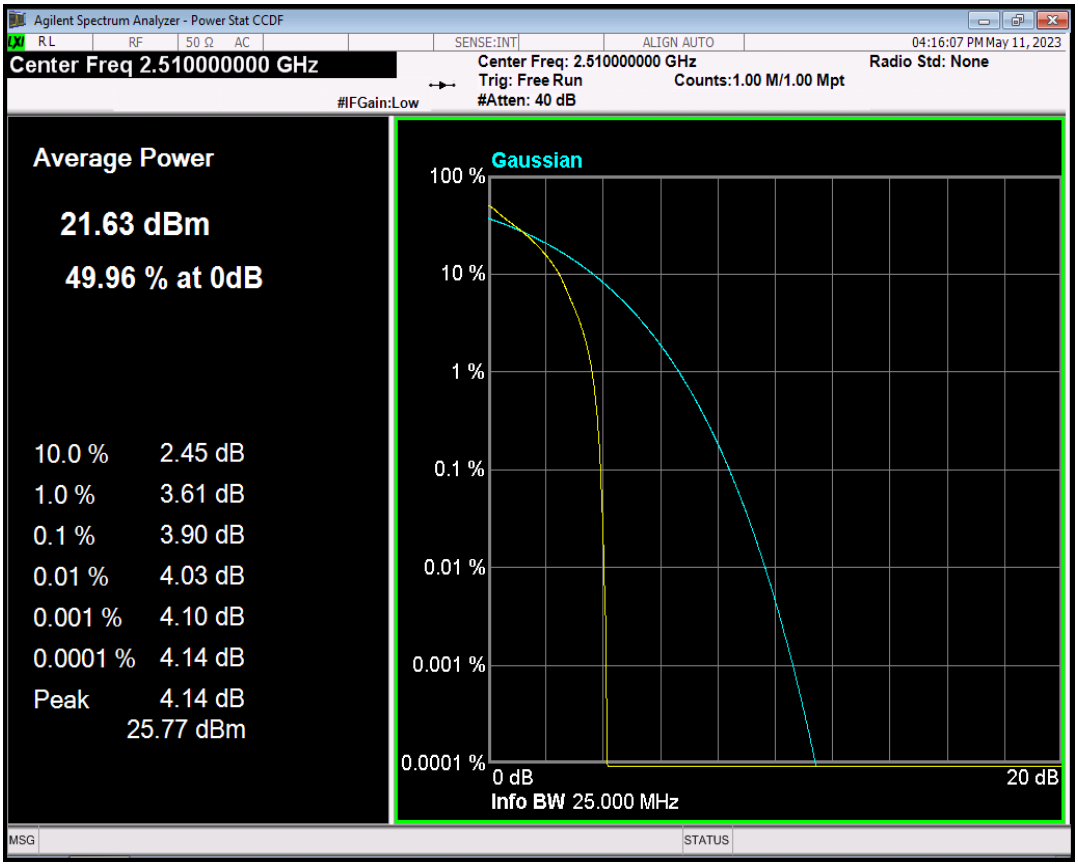

Band7 QPSK BW=15MHz Channel=21375 RB Size=1 Position=#0



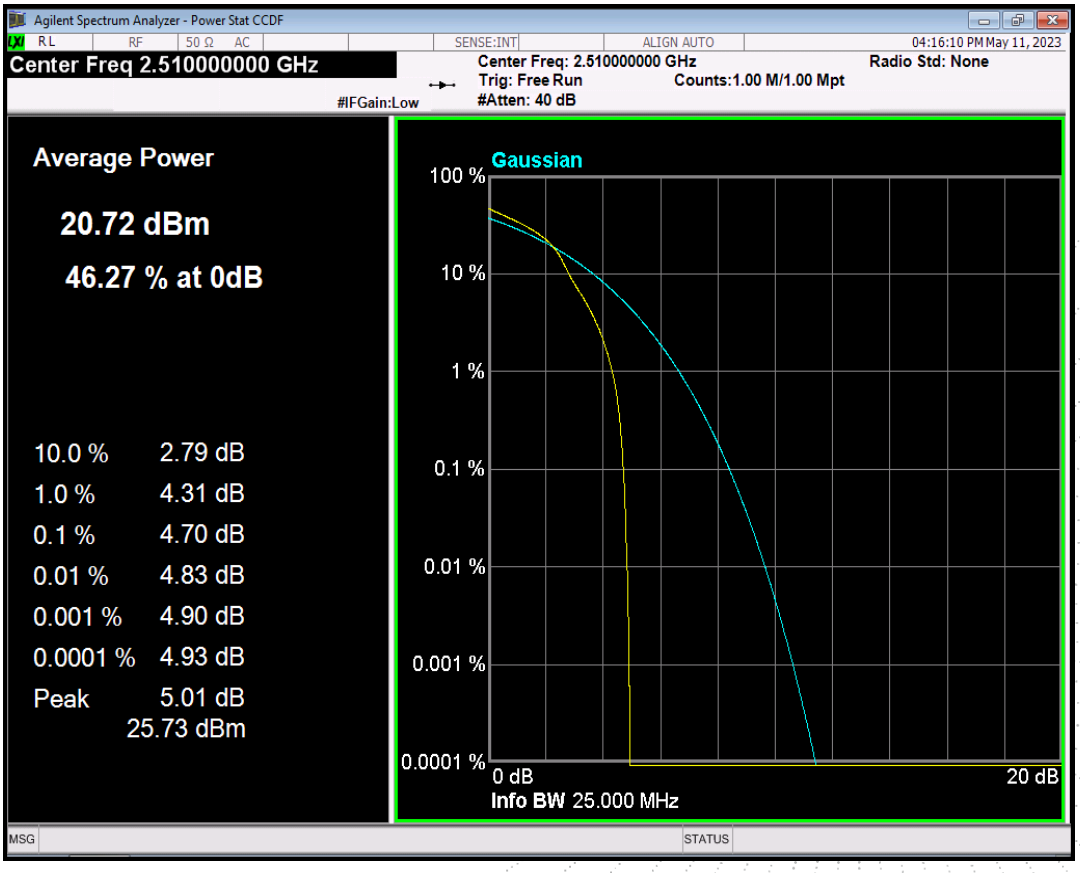

Band7 16QAM BW=15MHz Channel=21375 RB Size=1 Position=#0



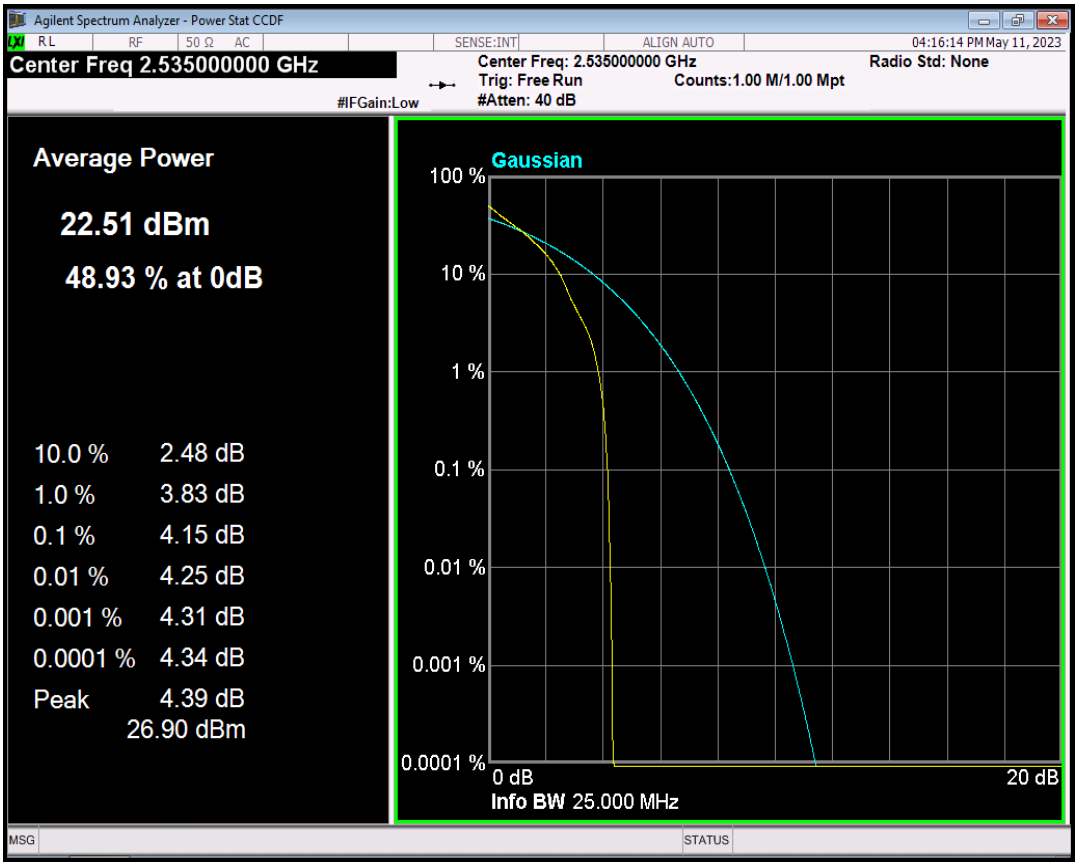

Band7 QPSK BW=20MHz Channel=20850 RB Size=1 Position=#0



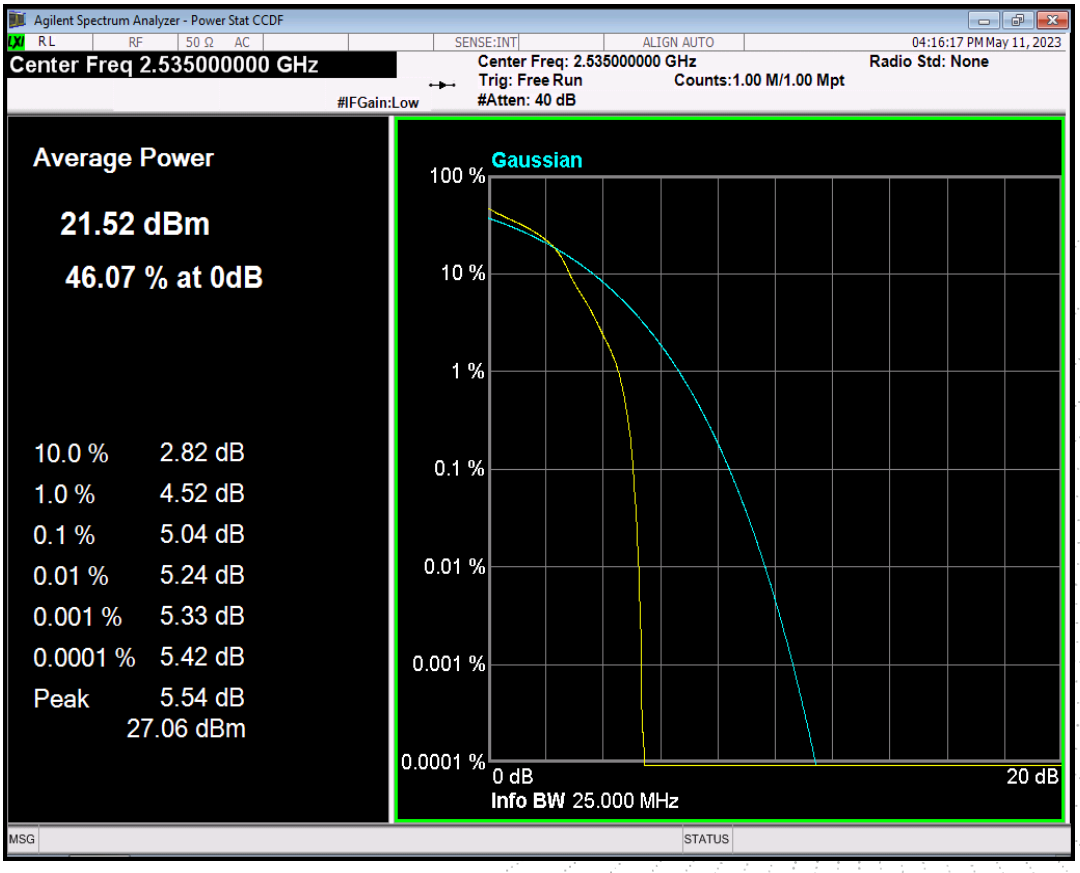

Band7 16QAM BW=20MHz Channel=20850 RB Size=1 Position=#0



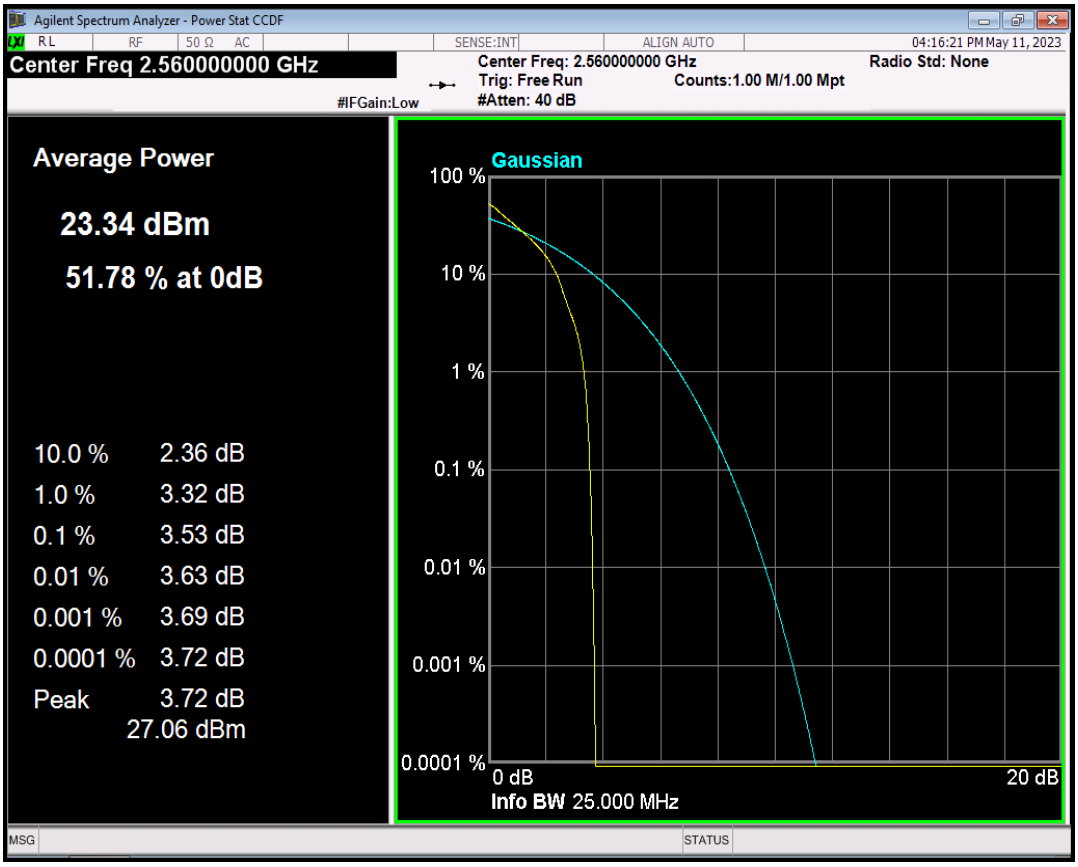

Band7 QPSK BW=20MHz Channel=21100 RB Size=1 Position=#0



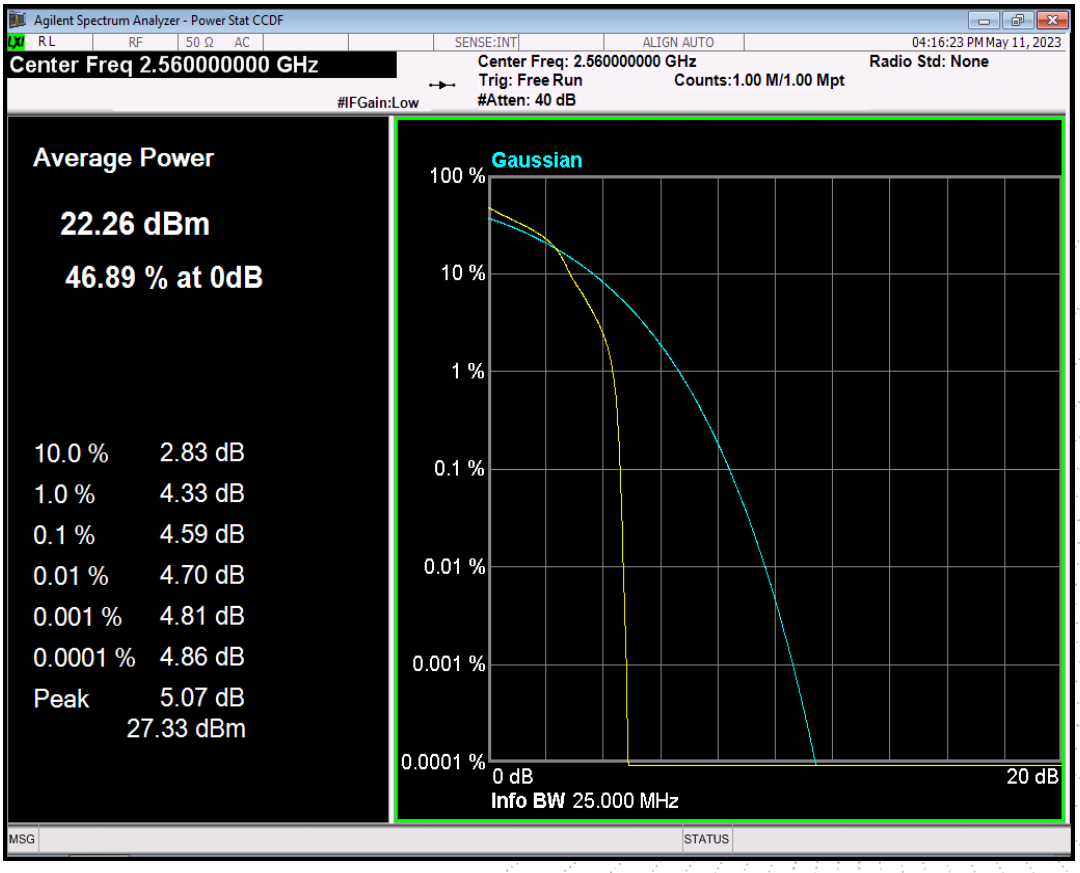

Band7 16QAM BW=20MHz Channel=21100 RB Size=1 Position=#0




Band7 QPSK BW=20MHz Channel=21350 RB Size=1 Position=#0



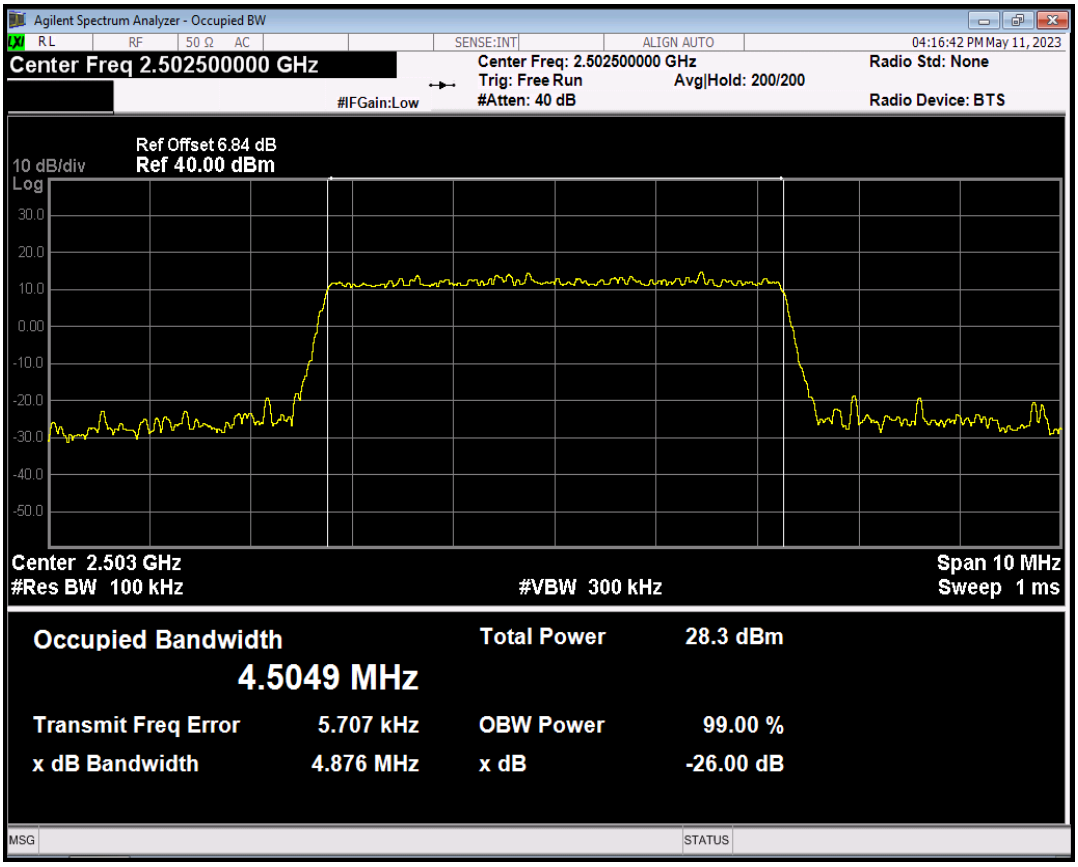

Band7 16QAM BW=20MHz Channel=21350 RB Size=1 Position=#0



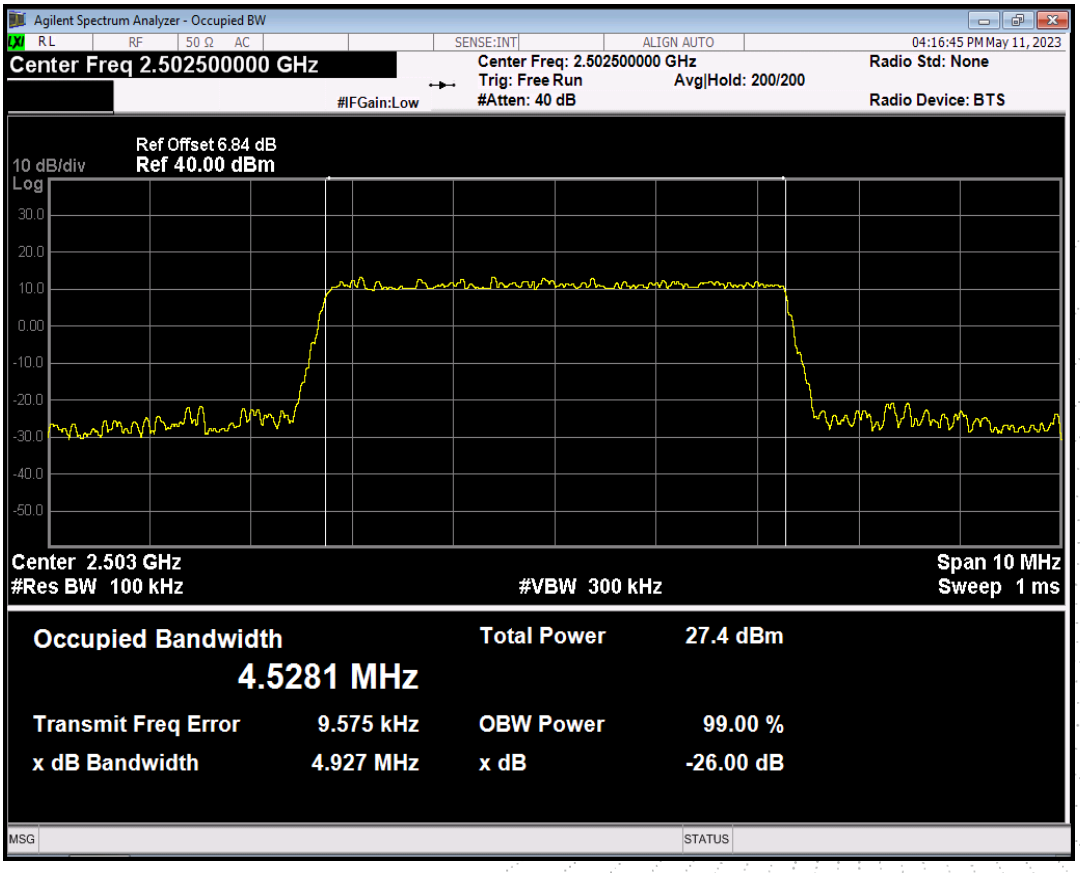
## Appendix 4. Occupied bandwidth

| Band | Bandwidth (MHz) | UL Channel | RB Size | RB Position | Modulation | 99% OBW (MHz) | -26dB EBW (MHz) | Verdict |
|---|---|---|---|---|---|---|---|---|
| Band7 | 5 | 20775 | 25 | #0 | QPSK | 4.505 | 4.876 | PASS |
| Band7 | 5 | 20775 | 25 | #0 | 16QAM | 4.528 | 4.927 | PASS |
| Band7 | 5 | 21100 | 25 | #0 | QPSK | 4.502 | 4.897 | PASS |
| Band7 | 5 | 21100 | 25 | #0 | 16QAM | 4.534 | 4.921 | PASS |
| Band7 | 5 | 21425 | 25 | #0 | QPSK | 4.519 | 4.910 | PASS |
| Band7 | 5 | 21425 | 25 | #0 | 16QAM | 4.502 | 4.908 | PASS |
| Band7 | 10 | 20800 | 50 | #0 | QPSK | 8.985 | 9.655 | PASS |
| Band7 | 10 | 20800 | 50 | #0 | 16QAM | 8.963 | 9.714 | PASS |
| Band7 | 10 | 21100 | 50 | #0 | QPSK | 8.984 | 9.696 | PASS |
| Band7 | 10 | 21100 | 50 | #0 | 16QAM | 9.006 | 9.778 | PASS |
| Band7 | 10 | 21400 | 50 | #0 | QPSK | 8.979 | 9.683 | PASS |
| Band7 | 10 | 21400 | 50 | #0 | 16QAM | 9.008 | 9.720 | PASS |
| Band7 | 15 | 20825 | 75 | #0 | QPSK | 13.450 | 14.441 | PASS |
| Band7 | 15 | 20825 | 75 | #0 | 16QAM | 13.471 | 14.368 | PASS |
| Band7 | 15 | 21100 | 75 | #0 | QPSK | 13.460 | 14.529 | PASS |
| Band7 | 15 | 21100 | 75 | #0 | 16QAM | 13.501 | 14.519 | PASS |
| Band7 | 15 | 21375 | 75 | #0 | QPSK | 13.473 | 14.570 | PASS |
| Band7 | 15 | 21375 | 75 | #0 | 16QAM | 13.475 | 14.444 | PASS |
| Band7 | 20 | 20850 | 100 | #0 | QPSK | 17.975 | 19.299 | PASS |
| Band7 | 20 | 20850 | 100 | #0 | 16QAM | 17.958 | 19.201 | PASS |
| Band7 | 20 | 21100 | 100 | #0 | QPSK | 17.970 | 19.254 | PASS |
| Band7 | 20 | 21100 | 100 | #0 | 16QAM | 17.923 | 19.276 | PASS |
| Band7 | 20 | 21350 | 100 | #0 | QPSK | 17.924 | 19.322 | PASS |
| Band7 | 20 | 21350 | 100 | #0 | 16QAM | 17.986 | 19.164 | PASS |

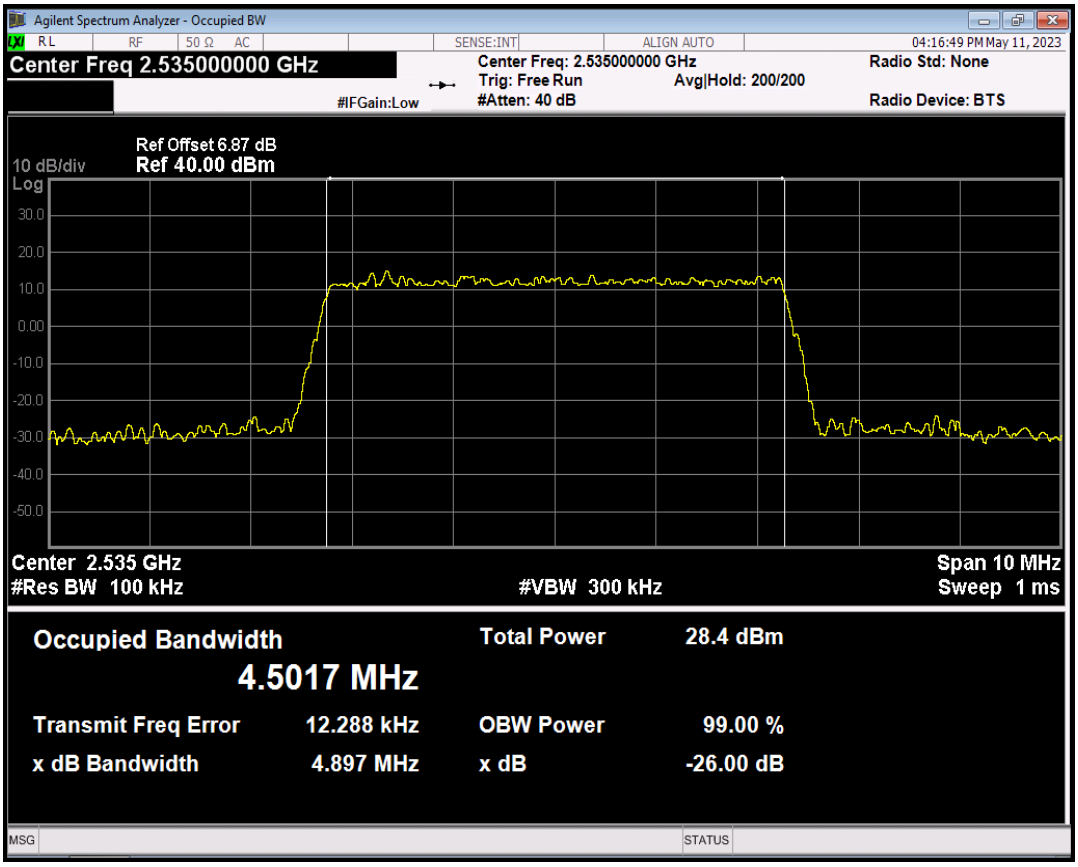
Band7 QPSK BW=5MHz Channel=20775 RB Size=25 Position=#0



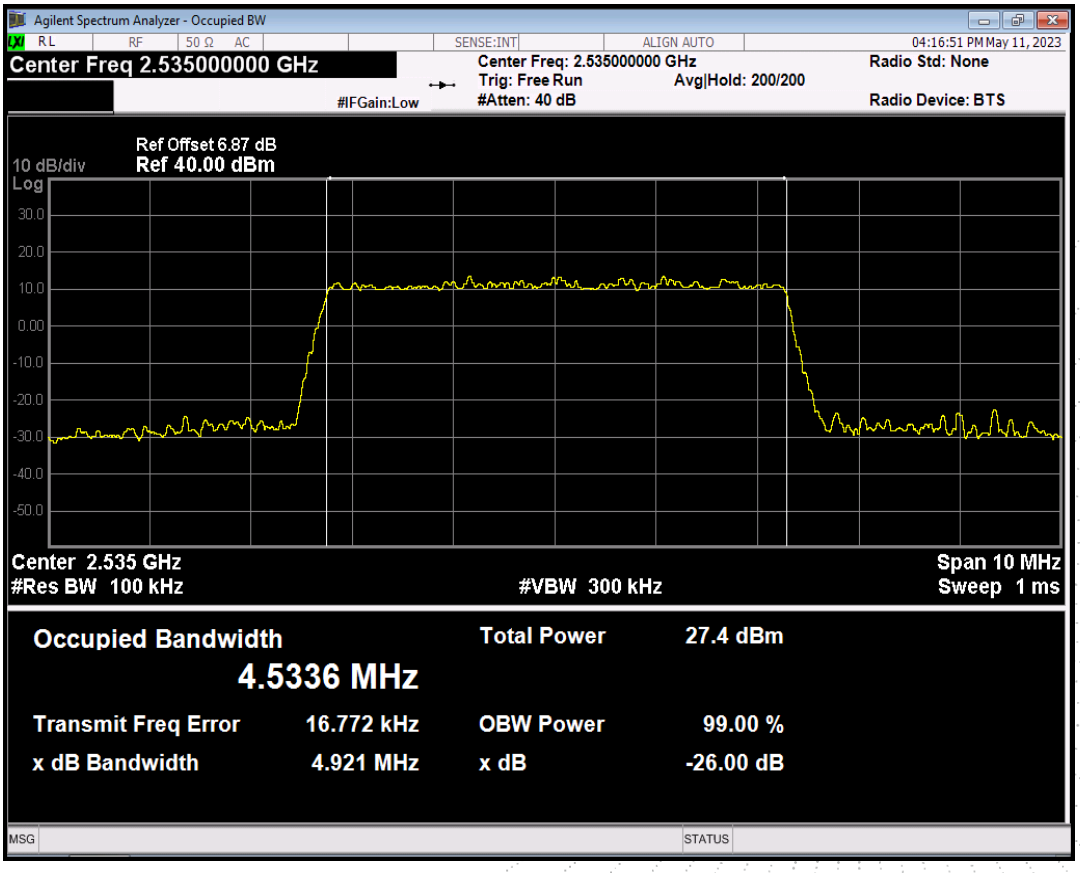

Band7 16QAM BW=5MHz Channel=20775 RB Size=25 Position=#0



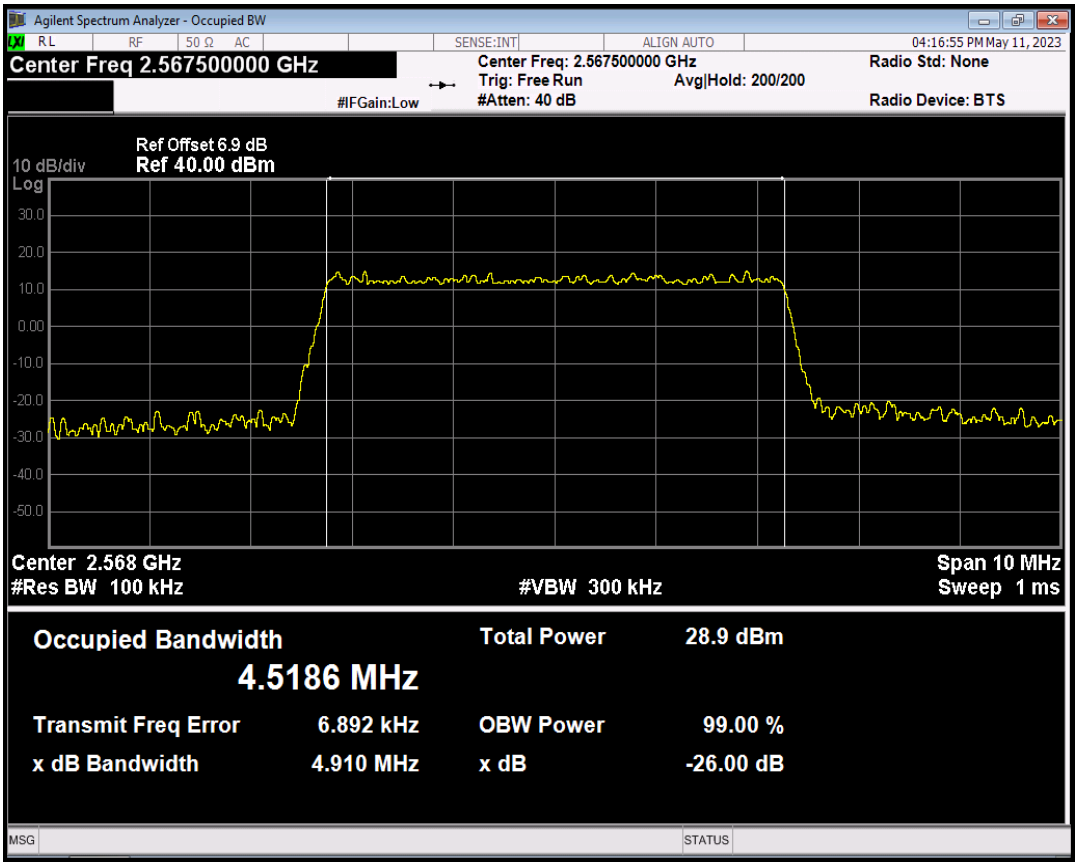

Band7 QPSK BW=5MHz Channel=21100 RB Size=25 Position=#0



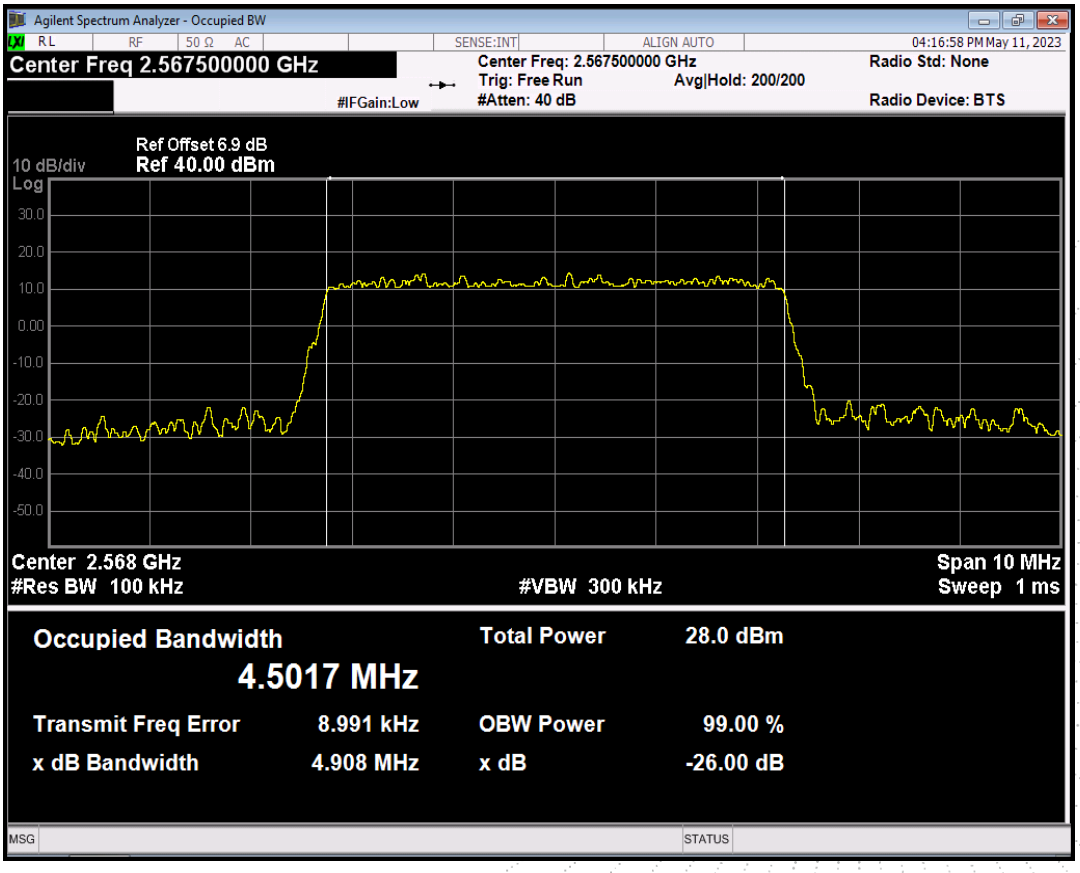

Band7 16QAM BW=5MHz Channel=21100 RB Size=25 Position=#0



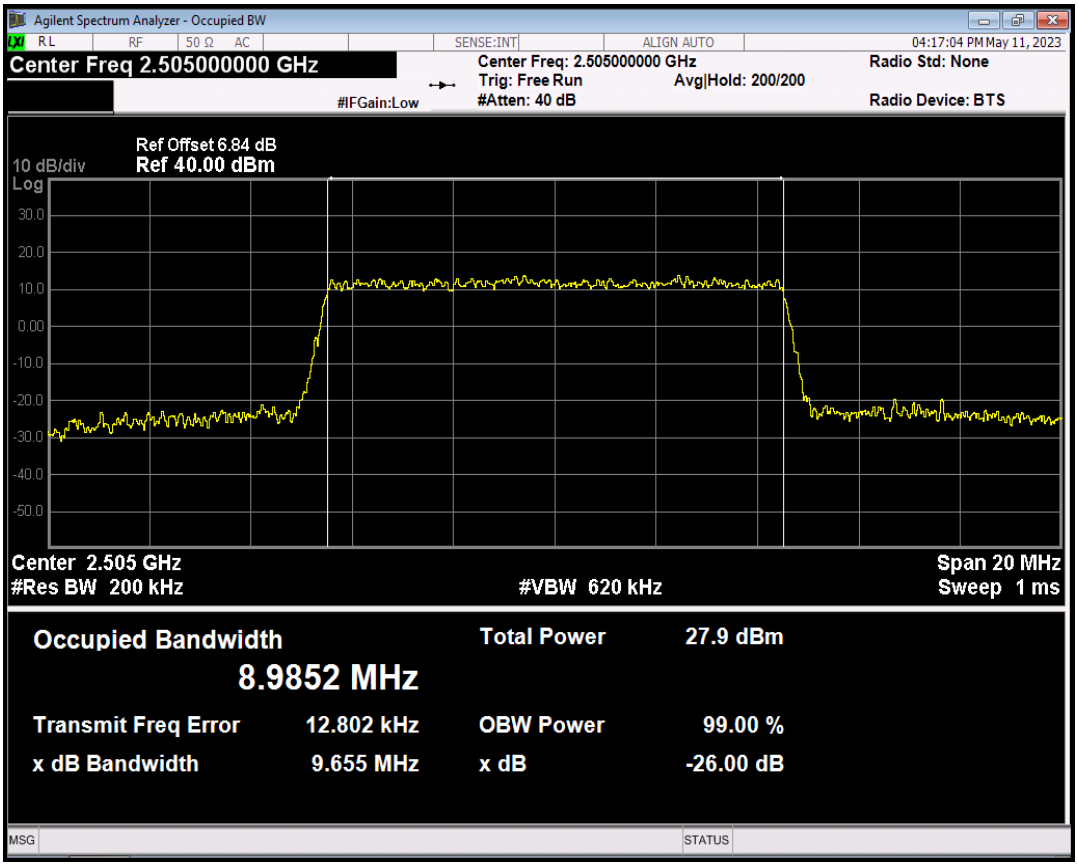

Band7 QPSK BW=5MHz Channel=21425 RB Size=25 Position=#0



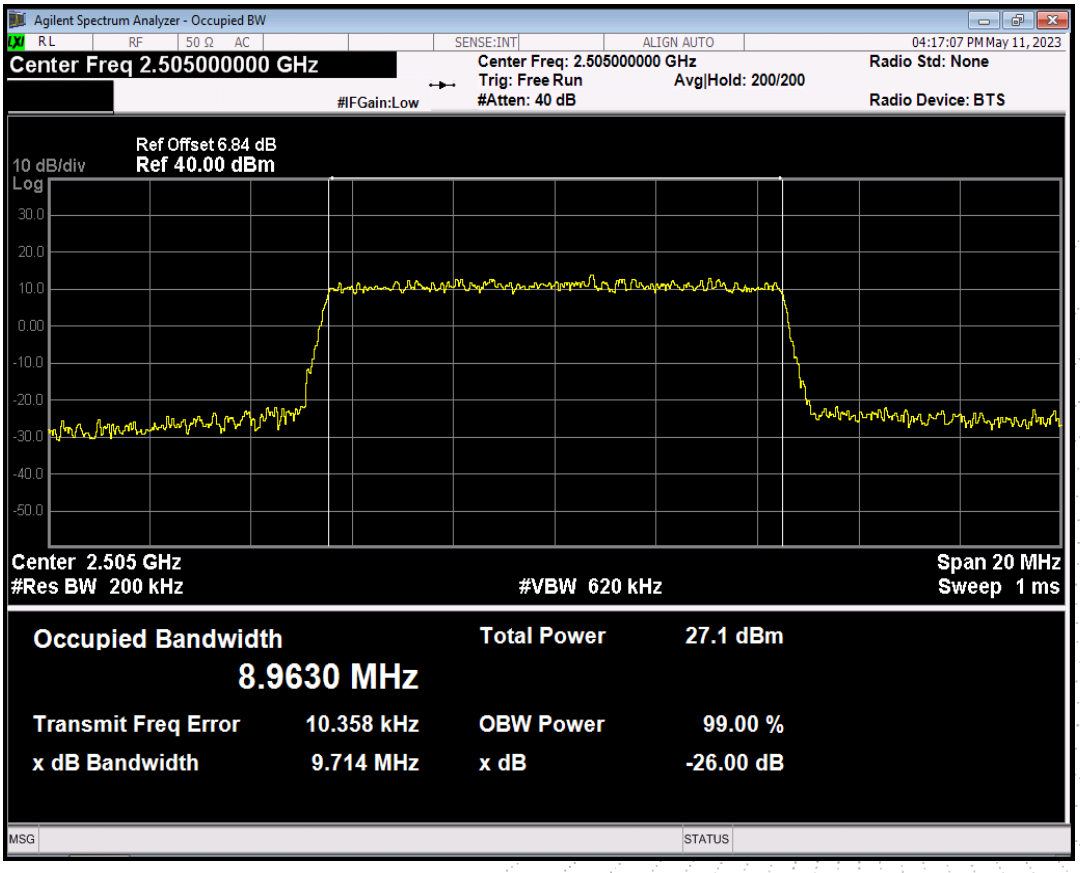

Band7 16QAM BW=5MHz Channel=21425 RB Size=25 Position=#0



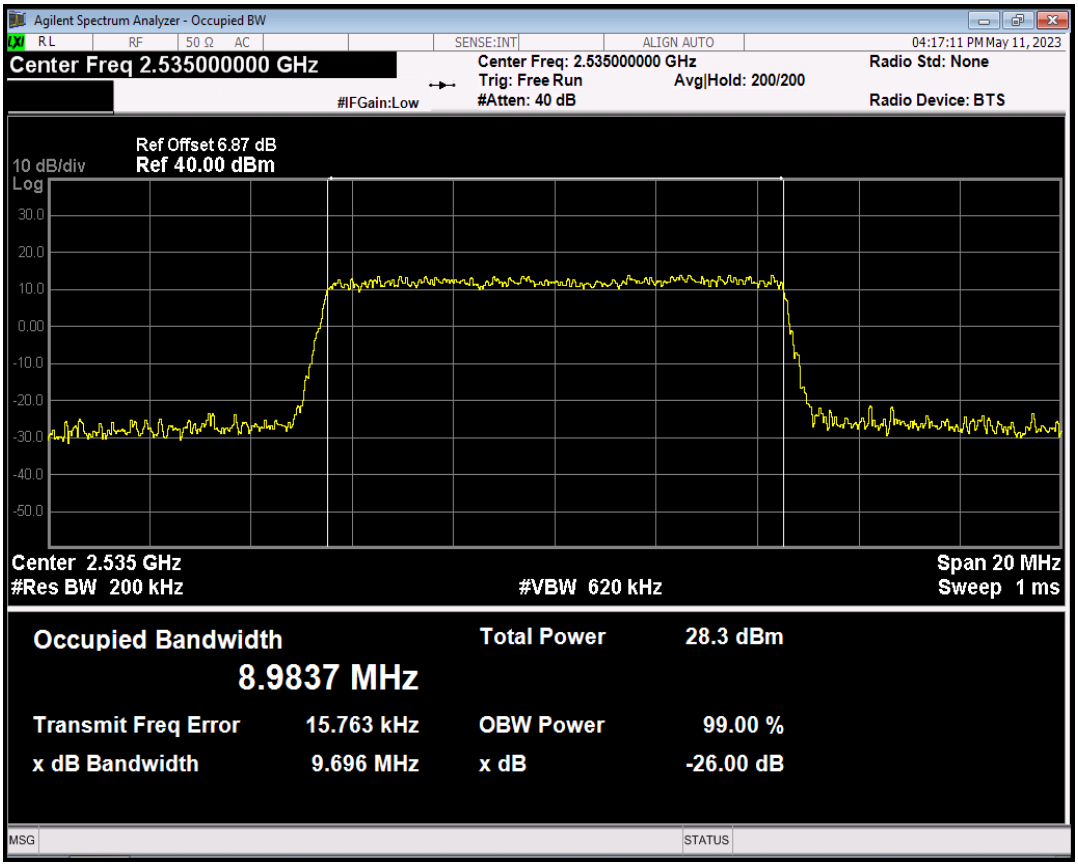

Band7 QPSK BW=10MHz Channel=20800 RB Size=50 Position=#0



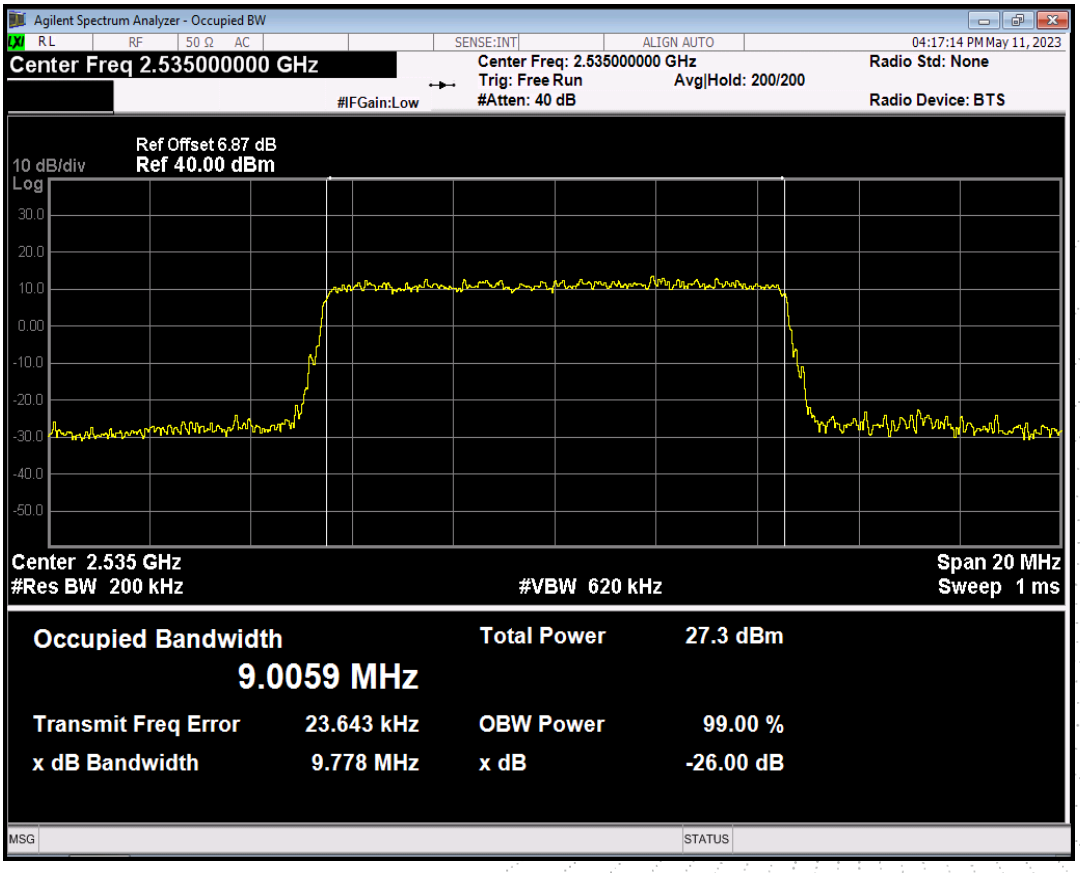

Band7 16QAM BW=10MHz Channel=20800 RB Size=50 Position=#0



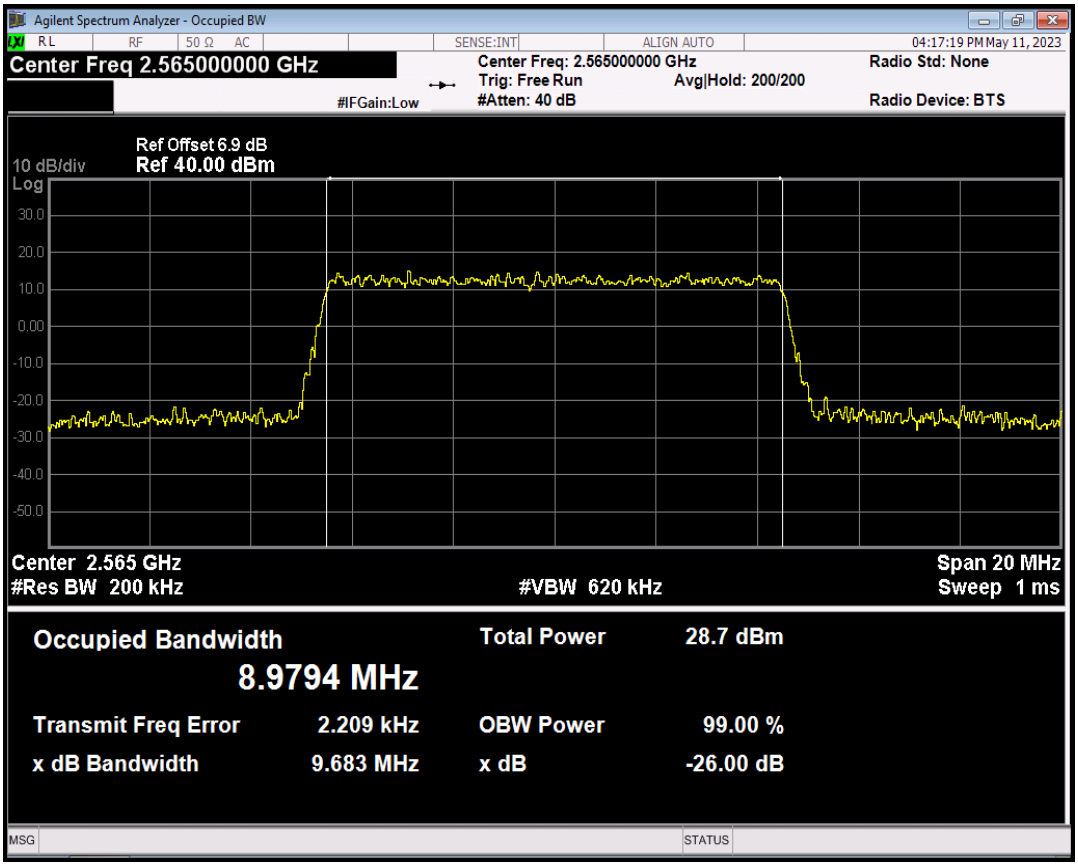

Band7 QPSK BW=10MHz Channel=21100 RB Size=50 Position=#0



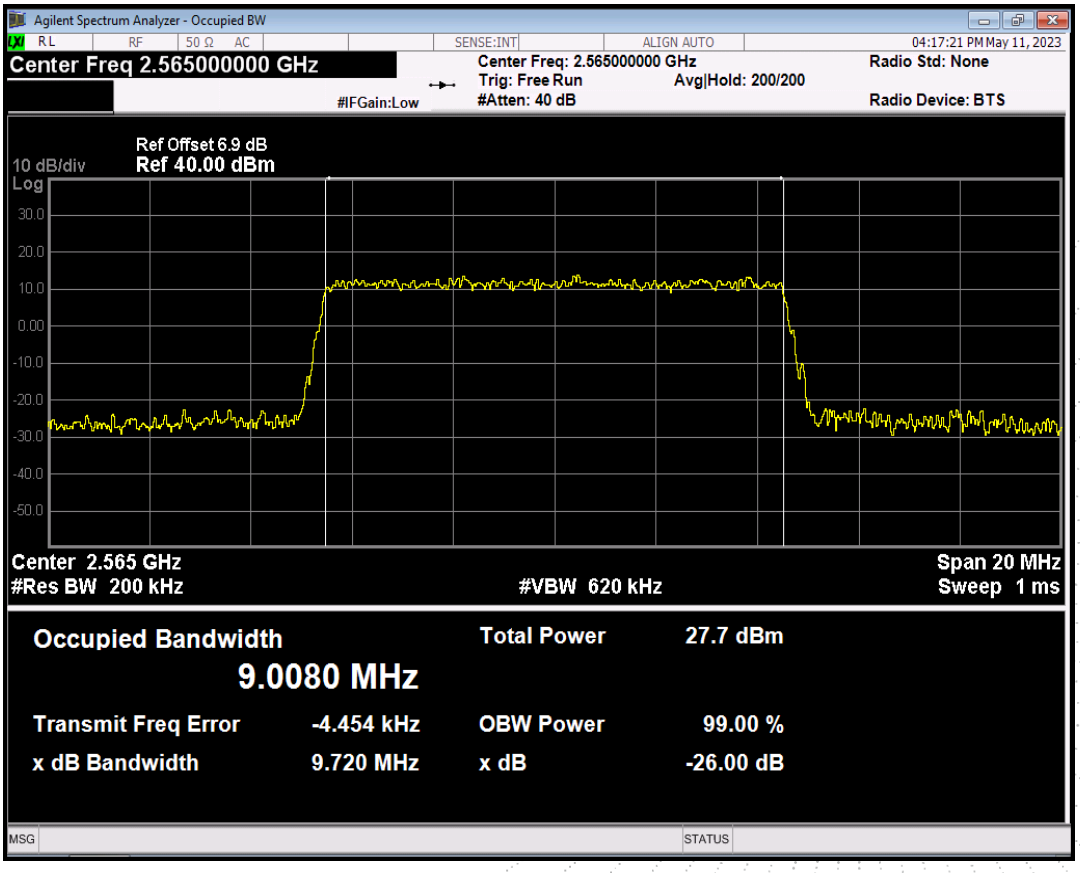

Band7 16QAM BW=10MHz Channel=21100 RB Size=50 Position=#0



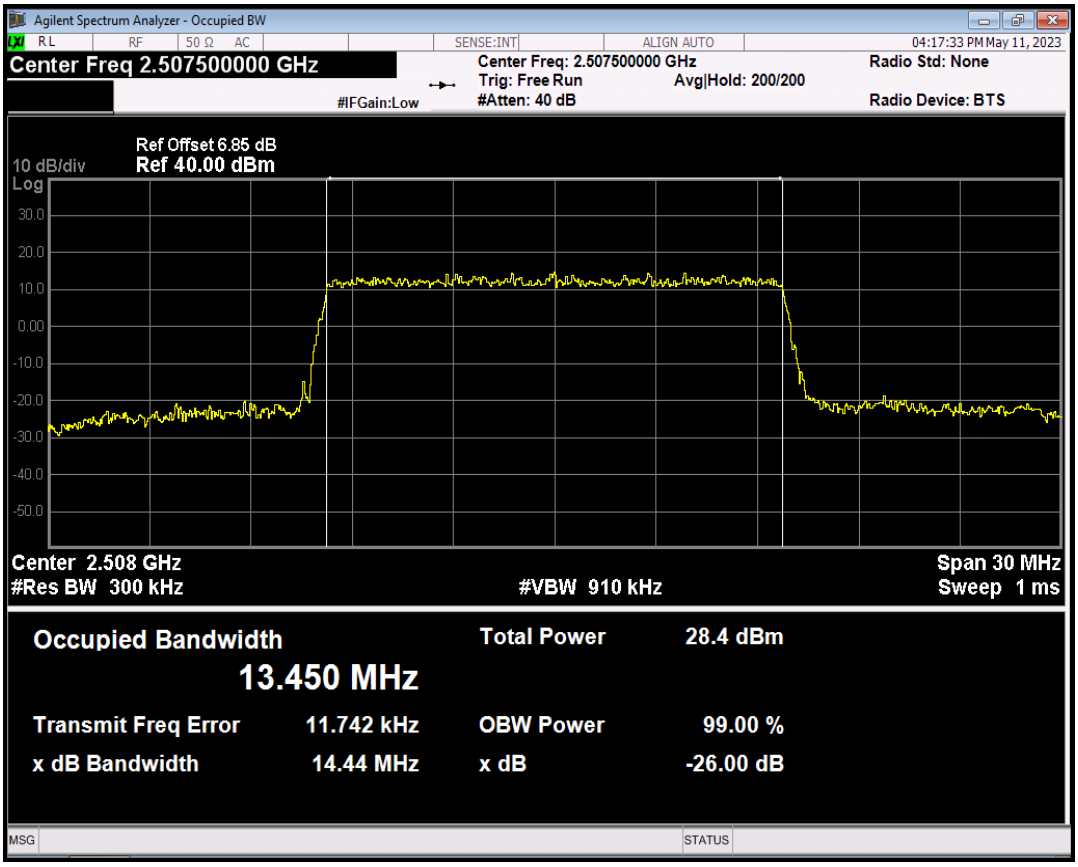

Band7 QPSK BW=10MHz Channel=21400 RB Size=50 Position=#0



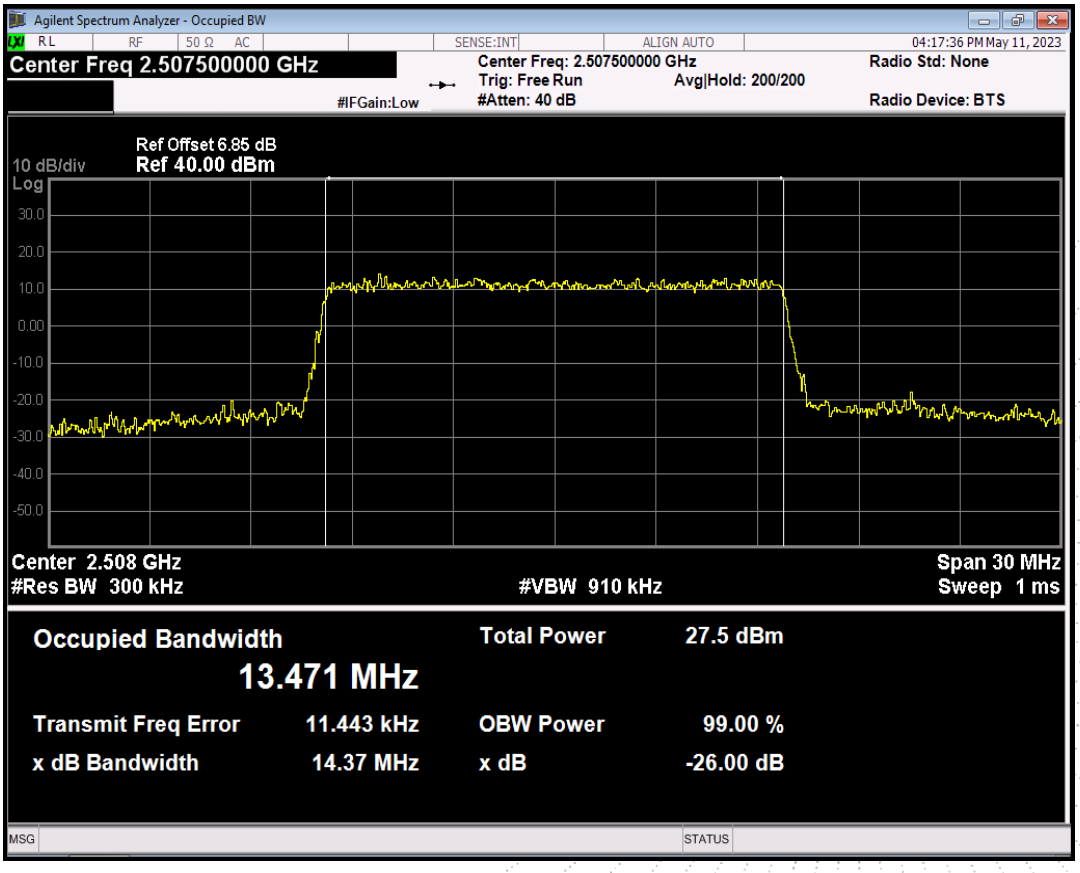

Band7 16QAM BW=10MHz Channel=21400 RB Size=50 Position=#0



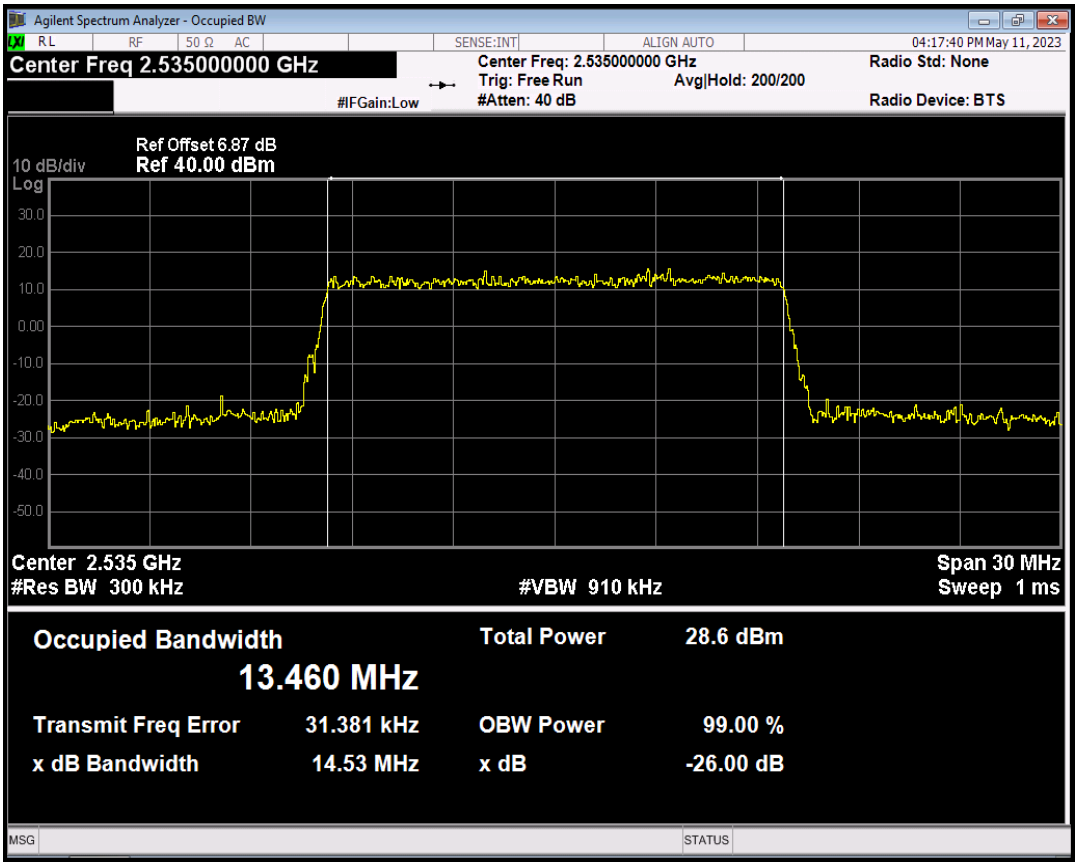

Band7 QPSK BW=15MHz Channel=20825 RB Size=75 Position=#0



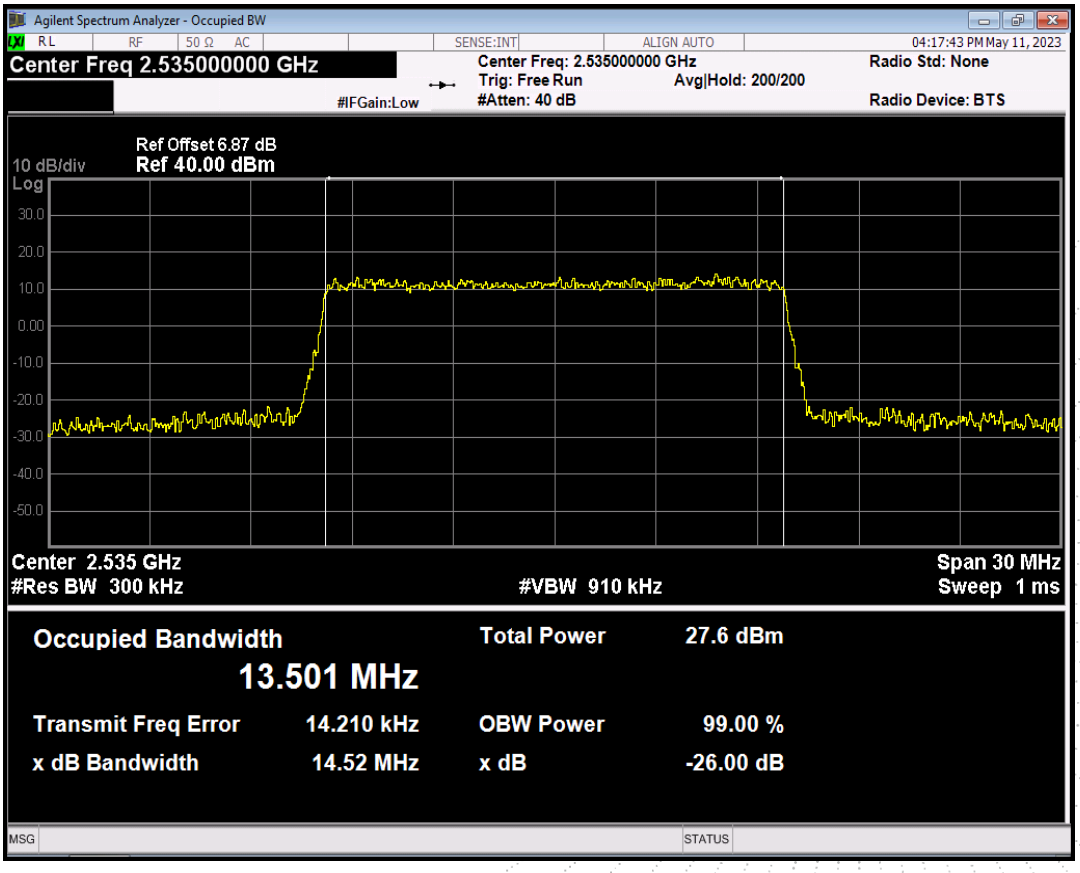

Band7 16QAM BW=15MHz Channel=20825 RB Size=75 Position=#0



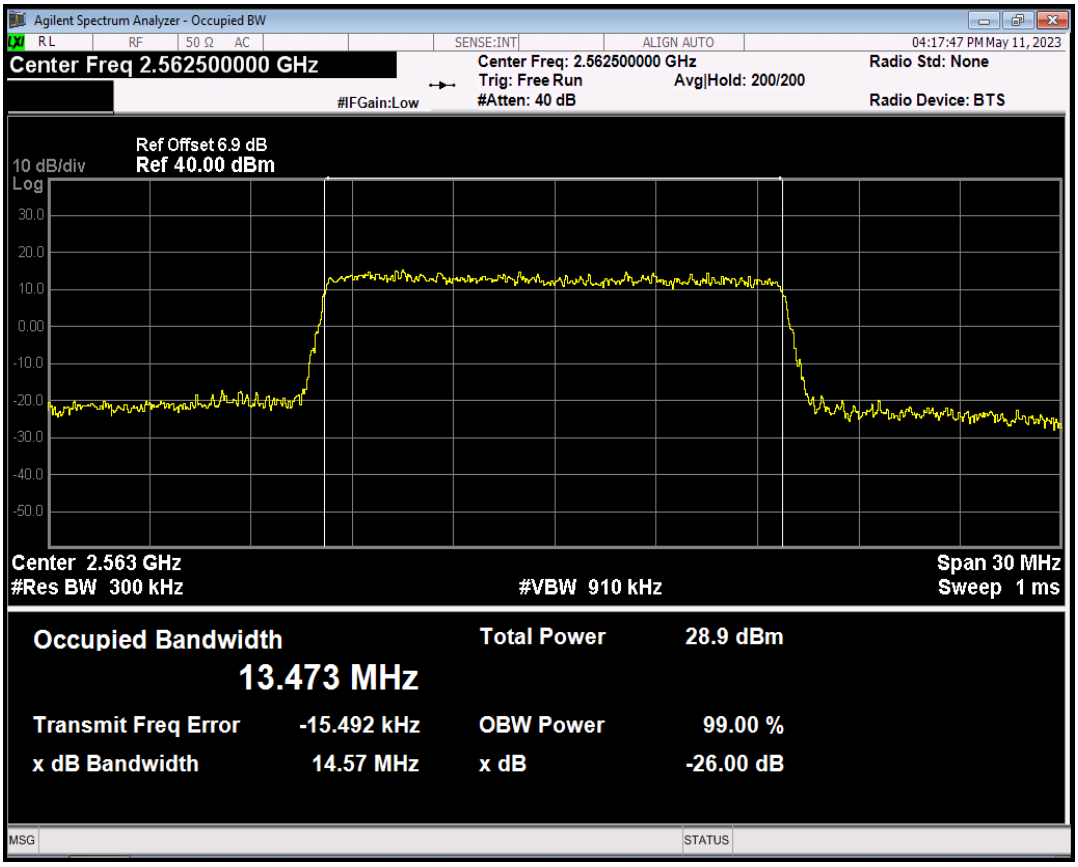

Band7 QPSK BW=15MHz Channel=21100 RB Size=75 Position=#0



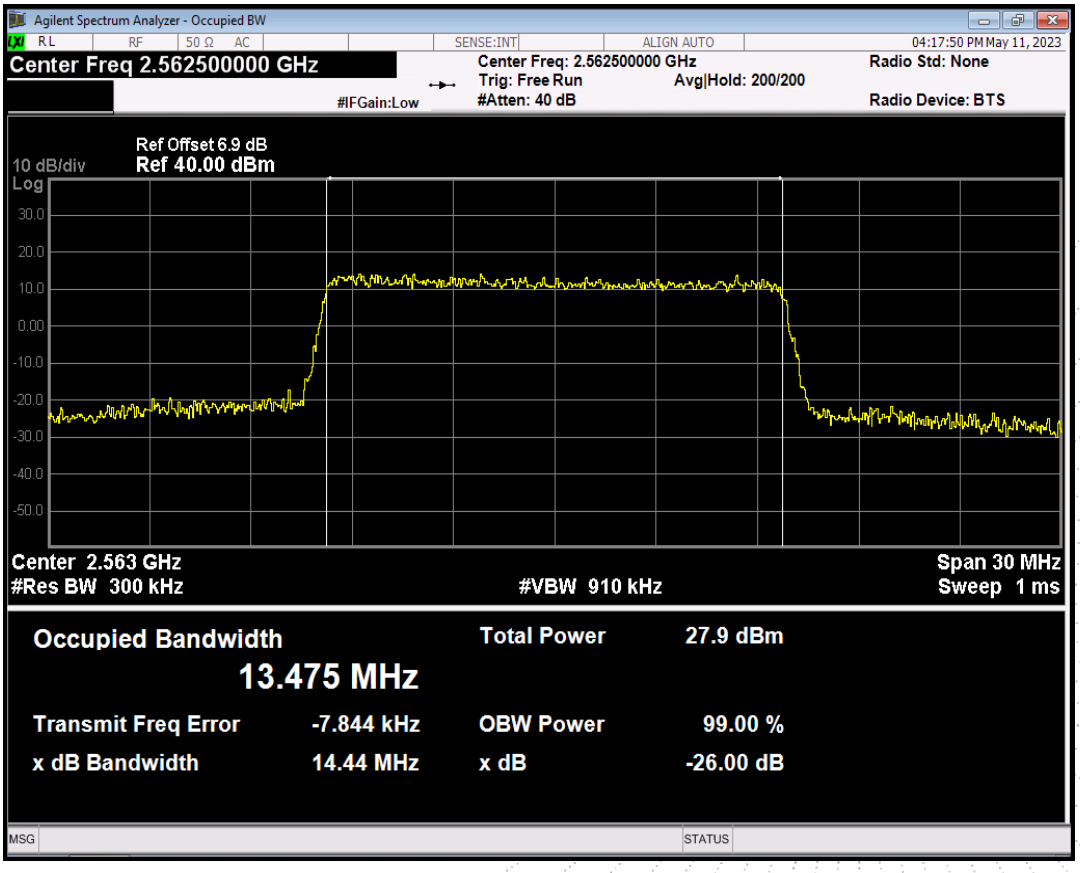

Band7 16QAM BW=15MHz Channel=21100 RB Size=75 Position=#0



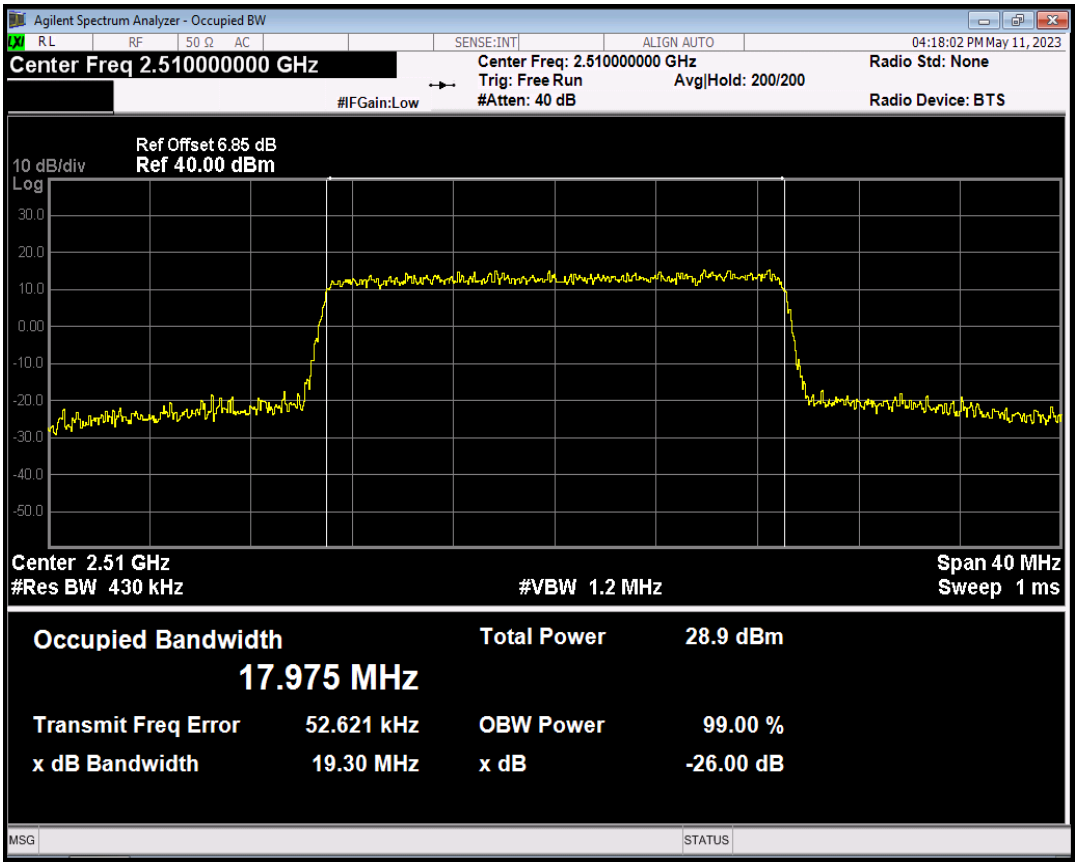

Band7 QPSK BW=15MHz Channel=21375 RB Size=75 Position=#0



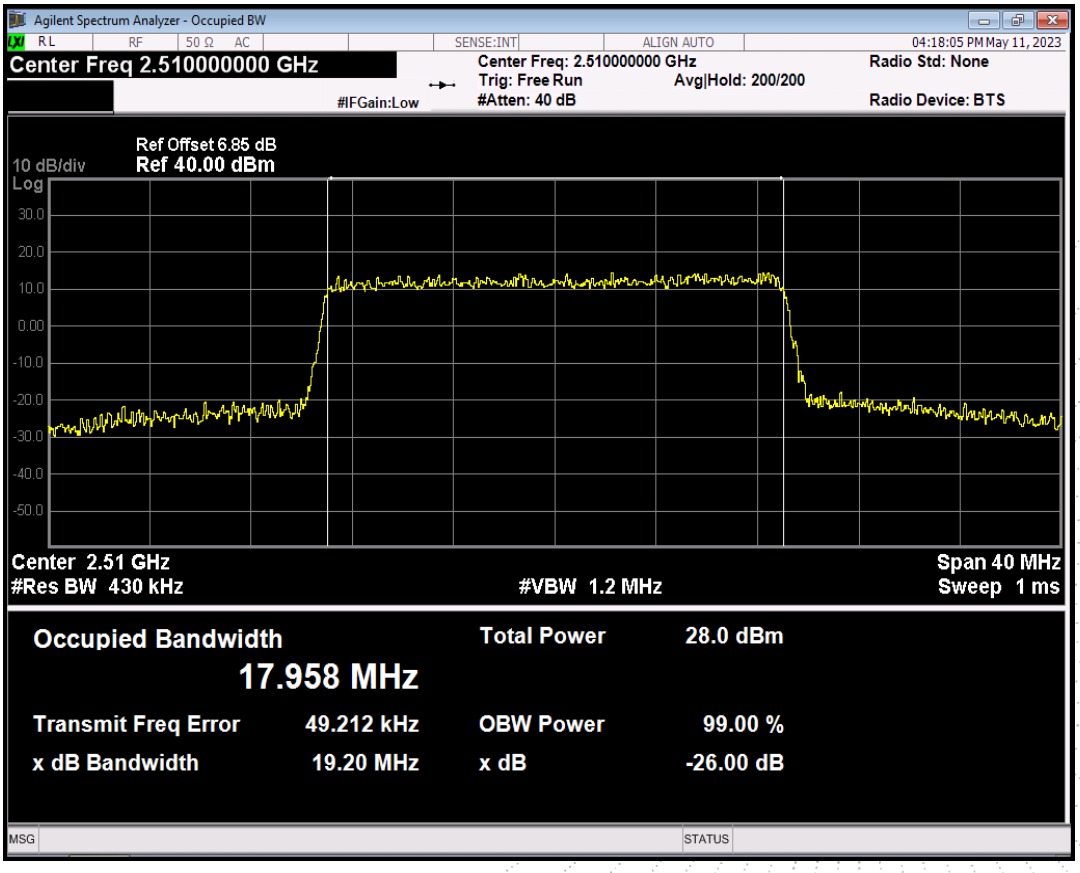

Band7 16QAM BW=15MHz Channel=21375 RB Size=75 Position=#0



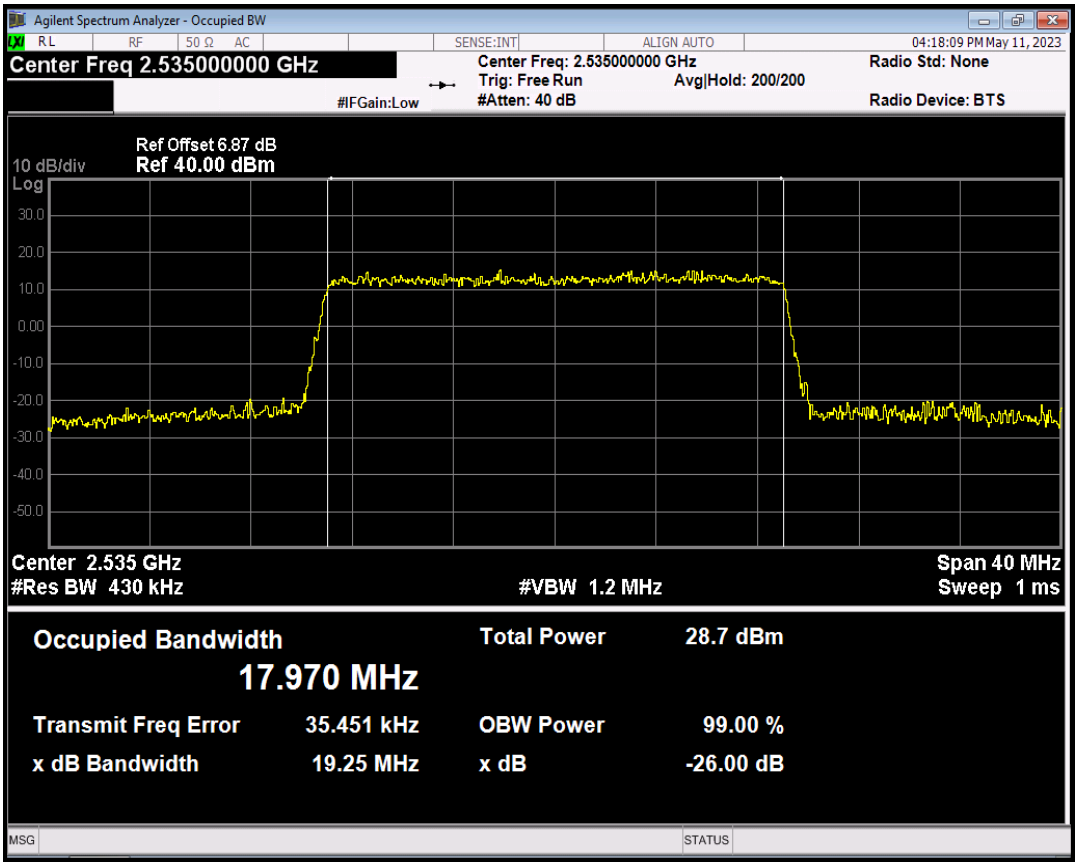

Band7 QPSK BW=20MHz Channel=20850 RB Size=100 Position=#0



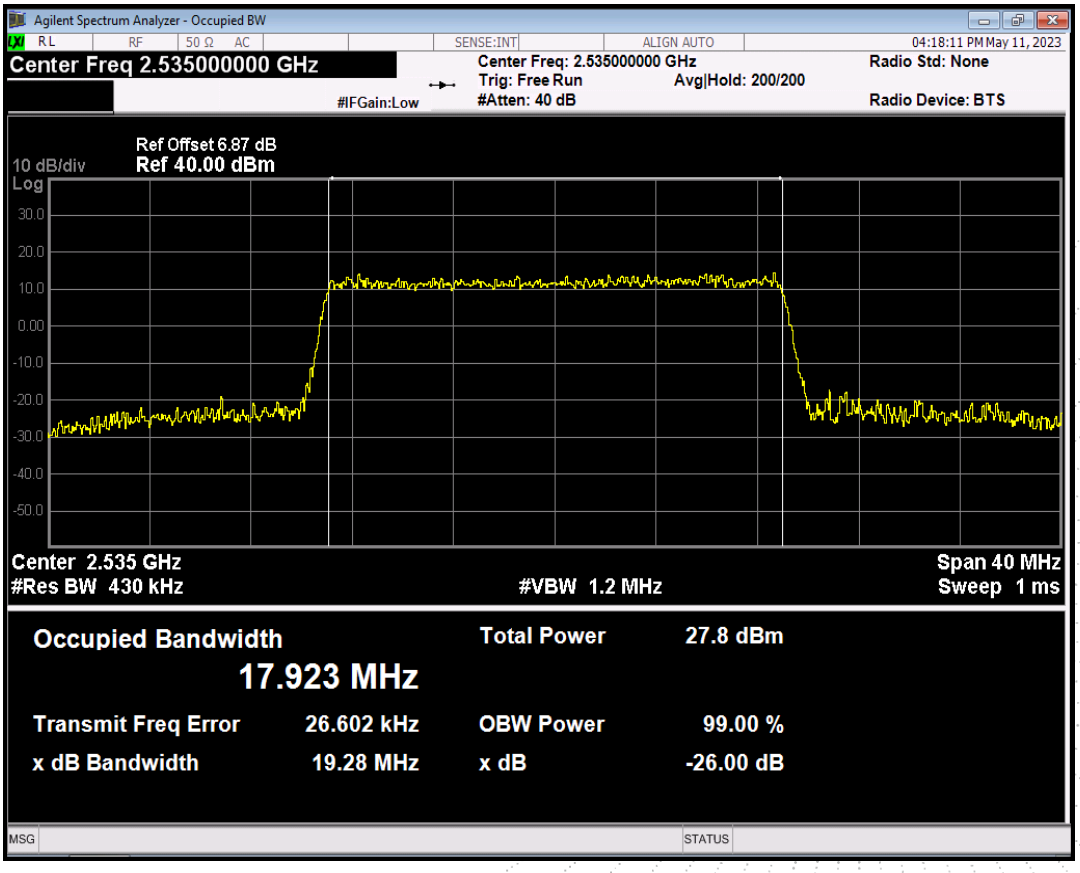

Band7 16QAM BW=20MHz Channel=20850 RB Size=100 Position=#0



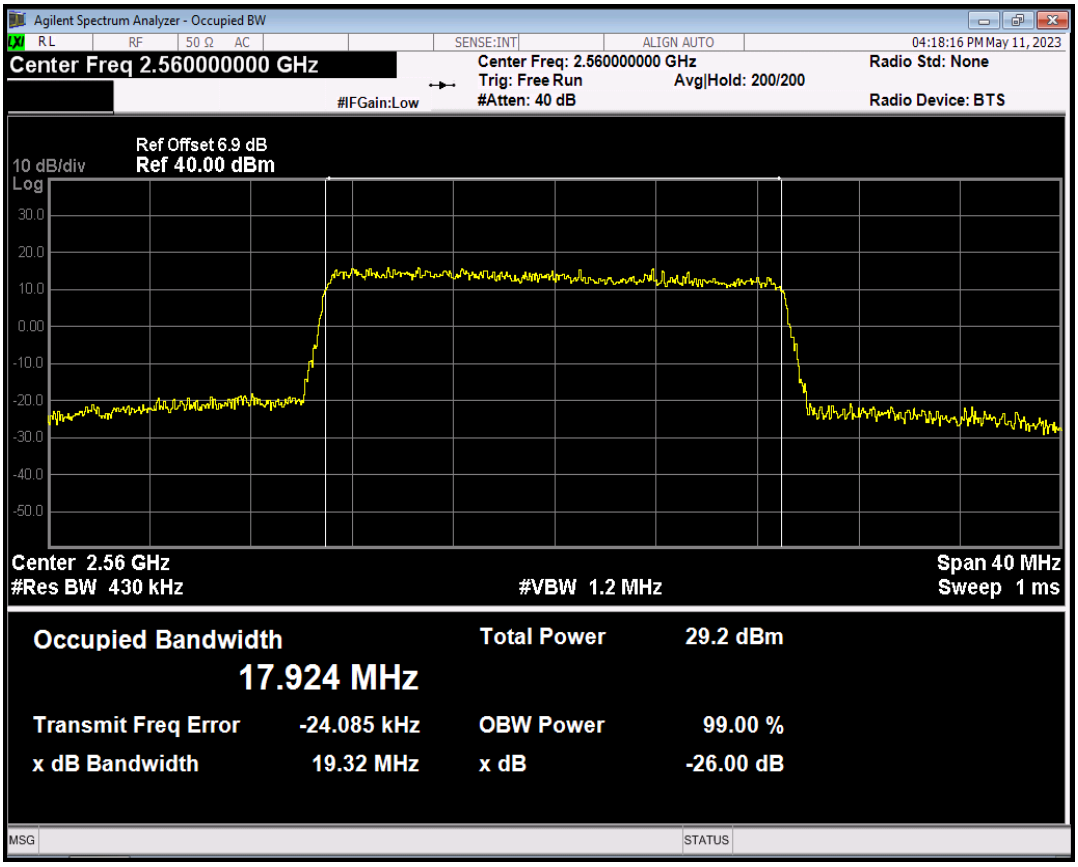

Band7 QPSK BW=20MHz Channel=21100 RB Size=100 Position=#0



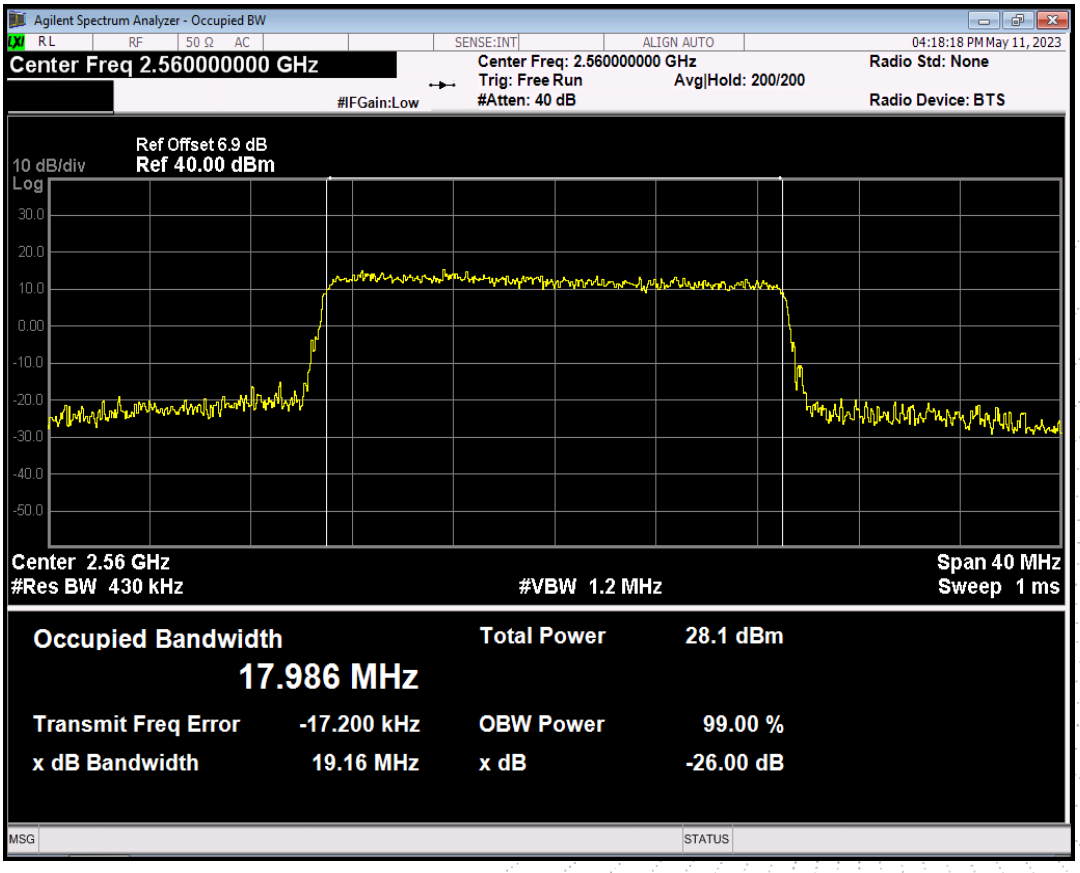

Band7 16QAM BW=20MHz Channel=21100 RB Size=100 Position=#0




Band7 QPSK BW=20MHz Channel=21350 RB Size=100 Position=#0



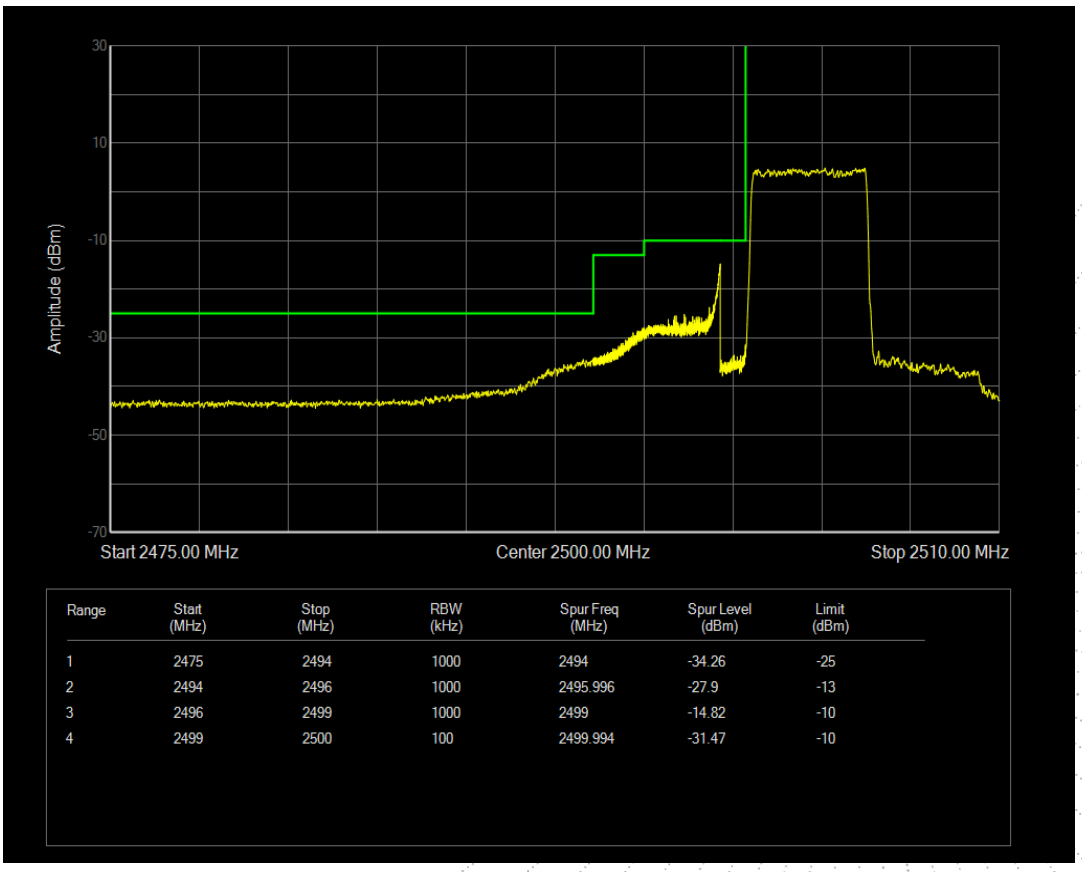

Band7 16QAM BW=20MHz Channel=21350 RB Size=100 Position=#0



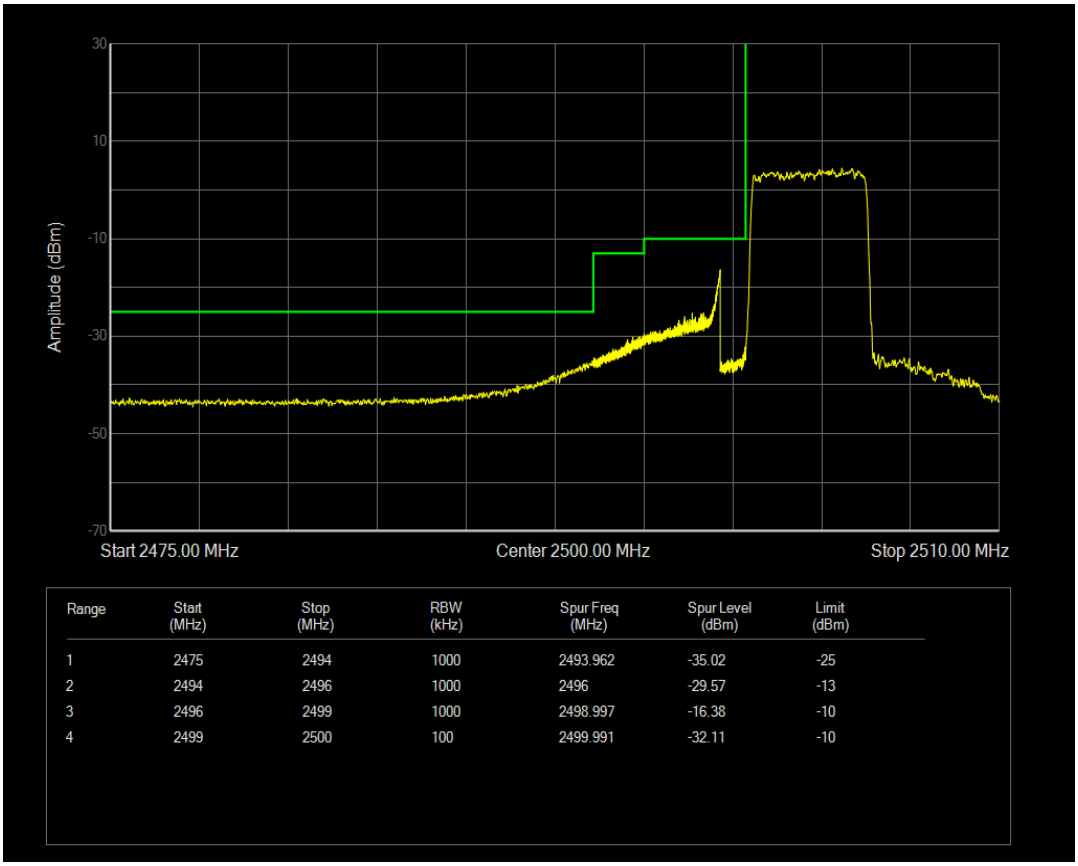
## Appendix 5. Band edge

| Band | Bandwidth (MHz) | UL Channel | RB Size | RB Position | Modulation | Spur Freq (MHz) | Spur Level (dBm) | Limit (dBm) | Verdict |
|---|---|---|---|---|---|---|---|---|---|
| Band7 | 5 | 20775 | 25 | #0 | QPSK | 2499.00 | -14.82 | -10 | PASS |
| Band7 | 5 | 20775 | 25 | #0 | 16QAM | 2499.00 | -16.38 | -10 | PASS |
| Band7 | 5 | 21425 | 25 | #0 | QPSK | 2571.00 | -14.78 | -10 | PASS |
| Band7 | 5 | 21425 | 25 | #0 | 16QAM | 2571.00 | -15.36 | -10 | PASS |
| Band7 | 10 | 20800 | 50 | #0 | QPSK | 2489.79 | -36.61 | -25 | PASS |
| Band7 | 10 | 20800 | 50 | #0 | 16QAM | 2489.60 | -37.09 | -25 | PASS |
| Band7 | 10 | 21400 | 50 | #0 | QPSK | 2580.09 | -34.66 | -25 | PASS |
| Band7 | 10 | 21400 | 50 | #0 | 16QAM | 2580.50 | -34.34 | -25 | PASS |
| Band7 | 15 | 20825 | 75 | #0 | QPSK | 2484.75 | -38.06 | -25 | PASS |
| Band7 | 15 | 20825 | 75 | #0 | 16QAM | 2484.81 | -39.07 | -25 | PASS |
| Band7 | 15 | 21375 | 75 | #0 | QPSK | 2585.14 | -35.65 | -25 | PASS |
| Band7 | 15 | 21375 | 75 | #0 | 16QAM | 2585.18 | -35.83 | -25 | PASS |
| Band7 | 20 | 20850 | 100 | #0 | QPSK | 2495.81 | -28.62 | -13 | PASS |
| Band7 | 20 | 20850 | 100 | #0 | 16QAM | 2479.76 | -41.64 | -25 | PASS |
| Band7 | 20 | 21350 | 100 | #0 | QPSK | 2590.10 | -38.34 | -25 | PASS |
| Band7 | 20 | 21350 | 100 | #0 | 16QAM | 2590.05 | -37.95 | -25 | PASS |

Band7 QPSK BW=5MHz Channel=20775 RB Size=25 Position=#0

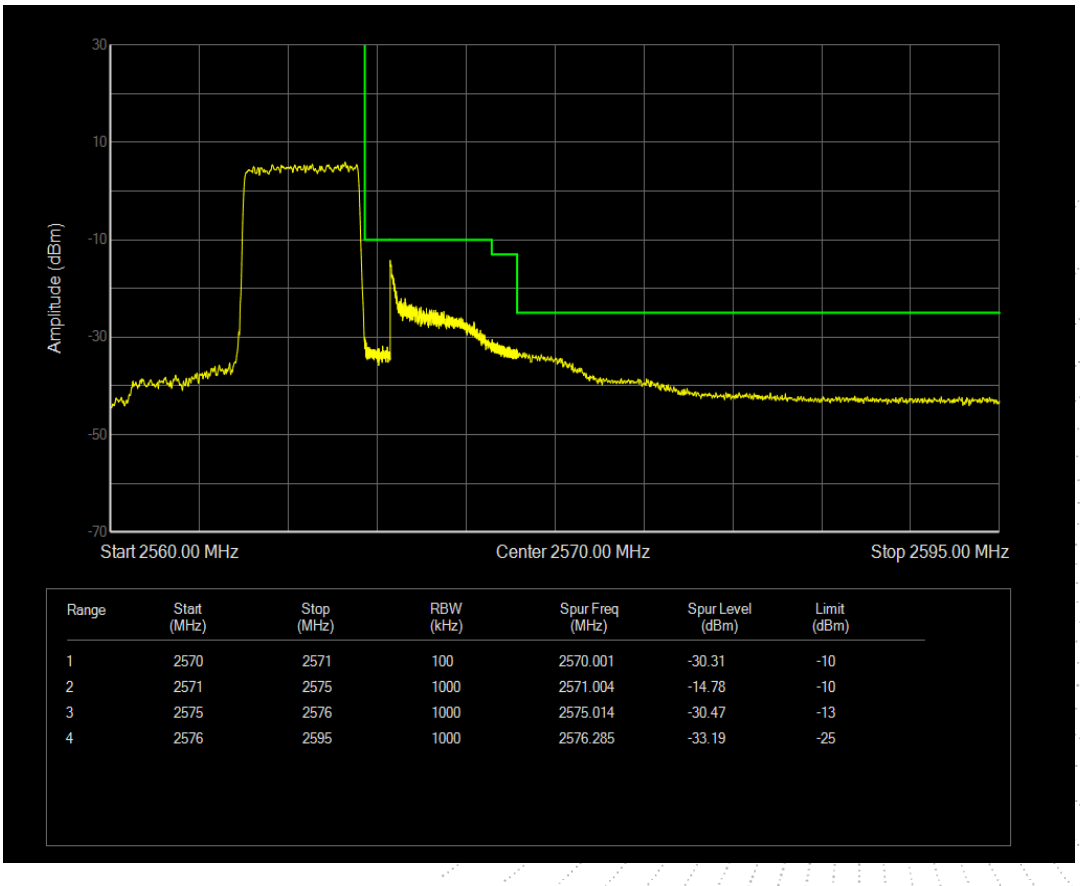


Band7 16QAM BW=5MHz Channel=20775 RB Size=25 Position=#0




| Range | Start (MHz) | Stop (MHz) | RBW (kHz) | Spur Freq (MHz) | Spur Level (dBm) | Limit (dBm) |
|---|---|---|---|---|---|---|
| 1 | 2475 | 2494 | 1000 | 2493.962 | -35.02 | -25 |
| 2 | 2494 | 2496 | 1000 | 2496 | -29.57 | -13 |
| 3 | 2496 | 2499 | 1000 | 2498.997 | -16.38 | -10 |
| 4 | 2499 | 2500 | 100 | 2499.991 | -32.11 | -10 |

Band7 QPSK BW=5MHz Channel=21425 RB Size=25 Position=#0

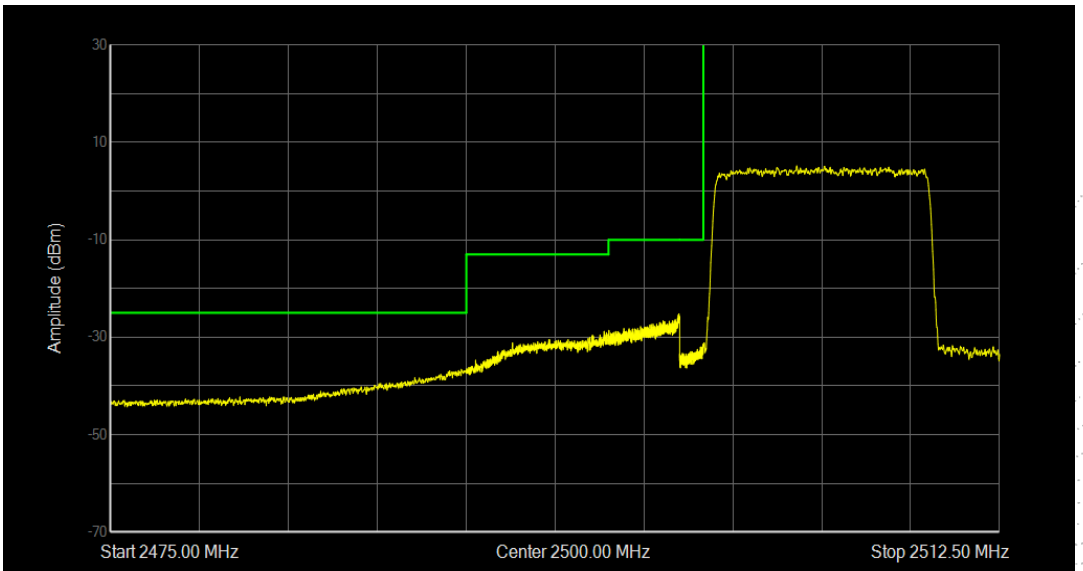



| Range | Start (MHz) | Stop (MHz) | RBW (kHz) | Spur Freq (MHz) | Spur Level (dBm) | Limit (dBm) |
|---|---|---|---|---|---|---|
| 1 | 2570 | 2571 | 100 | 2570.001 | -30.31 | -10 |
| 2 | 2571 | 2575 | 1000 | 2571.004 | -14.78 | -10 |
| 3 | 2575 | 2576 | 1000 | 2575.014 | -30.47 | -13 |
| 4 | 2576 | 2595 | 1000 | 2576.285 | -33.19 | -25 |

Band7 16QAM BW=5MHz Channel=21425 RB Size=25 Position=#0

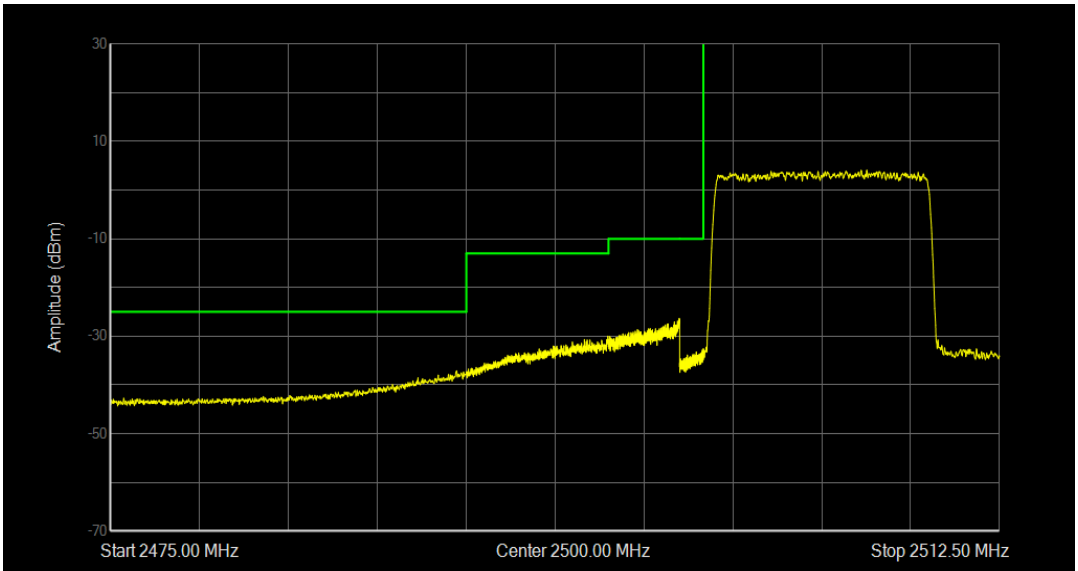
| Range | Start (MHz) | Stop (MHz) | RBW (kHz) | Spur Freq (MHz) | Spur Level (dBm) | Limit (dBm) |
|---|---|---|---|---|---|---|
| 1 | 2570 | 2571 | 100 | 2570.029 | -31.51 | -10 |
| 2 | 2571 | 2575 | 1000 | 2571.004 | -15.36 | -10 |
| 3 | 2575 | 2576 | 1000 | 2575.002 | -30.91 | -13 |
| 4 | 2576 | 2595 | 1000 | 2576.266 | -33.2 | -25 |

Band7 QPSK BW=10MHz Channel=20800 RB Size=50 Position=#0




| Range | Start (MHz) | Stop (MHz) | RBW (kHz) | Spur Freq (MHz) | Spur Level (dBm) | Limit (dBm) |
|---|---|---|---|---|---|---|
| 1 | 2475 | 2490 | 1000 | 2489.79 | -36.61 | -25 |
| 2 | 2490 | 2496 | 1000 | 2495.814 | -28.8 | -13 |
| 3 | 2496 | 2499 | 1000 | 2498.97 | -25.2 | -10 |
| 4 | 2499 | 2500 | 200 | 2499.995 | -31.5 | -10 |

Band7 16QAM BW=10MHz Channel=20800 RB Size=50 Position=#0




| Range | Start (MHz) | Stop (MHz) | RBW (kHz) | Spur Freq (MHz) | Spur Level (dBm) | Limit (dBm) |
|---|---|---|---|---|---|---|
| 1 | 2475 | 2490 | 1000 | 2489.595 | -37.09 | -25 |
| 2 | 2490 | 2496 | 1000 | 2495.97 | -29.99 | -13 |
| 3 | 2496 | 2499 | 1000 | 2498.982 | -26.35 | -10 |
| 4 | 2499 | 2500 | 200 | 2499.96 | -32.8 | -10 |

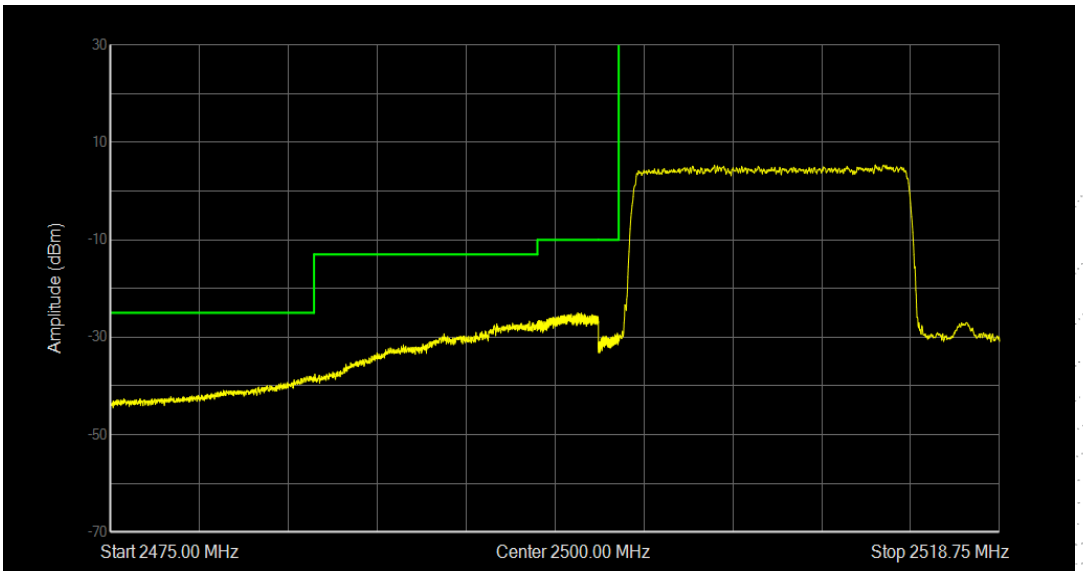
Band7 QPSK BW=10MHz Channel=21400 RB Size=50 Position=#0

| Range | Start (MHz) | Stop (MHz) | RBW (kHz) | Spur Freq (MHz) | Spur Level (dBm) | Limit (dBm) |
|---|---|---|---|---|---|---|
| 1 | 2570 | 2571 | 200 | 2570.002 | -31.93 | -10 |
| 2 | 2571 | 2575 | 1000 | 2571.02 | -24.12 | -10 |
| 3 | 2575 | 2580 | 1000 | 2575.235 | -27.39 | -13 |
| 4 | 2580 | 2595 | 1000 | 2580.09 | -34.66 | -25 |

Band7 16QAM BW=10MHz Channel=21400 RB Size=50 Position=#0

| Range | Start (MHz) | Stop (MHz) | RBW (kHz) | Spur Freq (MHz) | Spur Level (dBm) | Limit (dBm) |
|---|---|---|---|---|---|---|
| 1 | 2570 | 2571 | 200 | 2570.002 | -32.72 | -10 |
| 2 | 2571 | 2575 | 1000 | 2571.016 | -26.68 | -10 |
| 3 | 2575 | 2580 | 1000 | 2575.115 | -29.34 | -13 |
| 4 | 2580 | 2595 | 1000 | 2580.495 | -34.34 | -25 |

Band7 QPSK BW=15MHz Channel=20825 RB Size=75 Position=#0

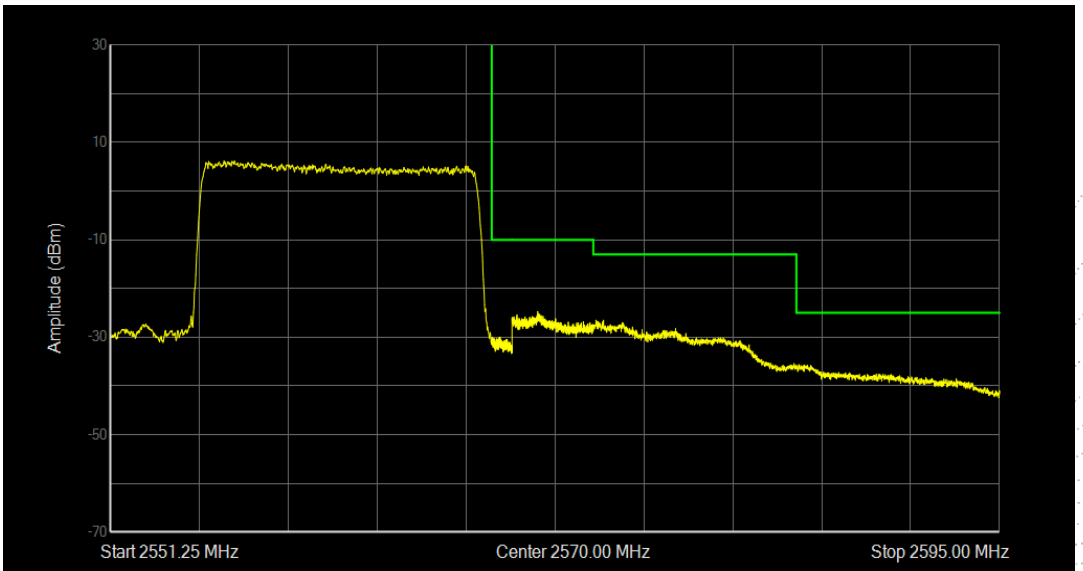



| Range | Start (MHz) | Stop (MHz) | RBW (kHz) | Spur Freq (MHz) | Spur Level (dBm) | Limit (dBm) |
|---|---|---|---|---|---|---|
| 1 | 2475 | 2485 | 1000 | 2484.75 | -38.06 | -25 |
| 2 | 2485 | 2496 | 1000 | 2495.604 | -26.72 | -13 |
| 3 | 2496 | 2499 | 1000 | 2497.986 | -25.01 | -10 |
| 4 | 2499 | 2500 | 300 | 2499.933 | -29.2 | -10 |

Band7 16QAM BW=15MHz Channel=20825 RB Size=75 Position=#0

| Range | Start (MHz) | Stop (MHz) | RBW (kHz) | Spur Freq (MHz) | Spur Level (dBm) | Limit (dBm) |
|---|---|---|---|---|---|---|
| 1 | 2475 | 2485 | 1000 | 2484.81 | -39.07 | -25 |
| 2 | 2485 | 2496 | 1000 | 2495.967 | -29.79 | -13 |
| 3 | 2496 | 2499 | 1000 | 2498.421 | -27.95 | -10 |
| 4 | 2499 | 2500 | 300 | 2499.81 | -32.45 | -10 |

Band7 QPSK BW=15MHz Channel=21375 RB Size=75 Position=#0

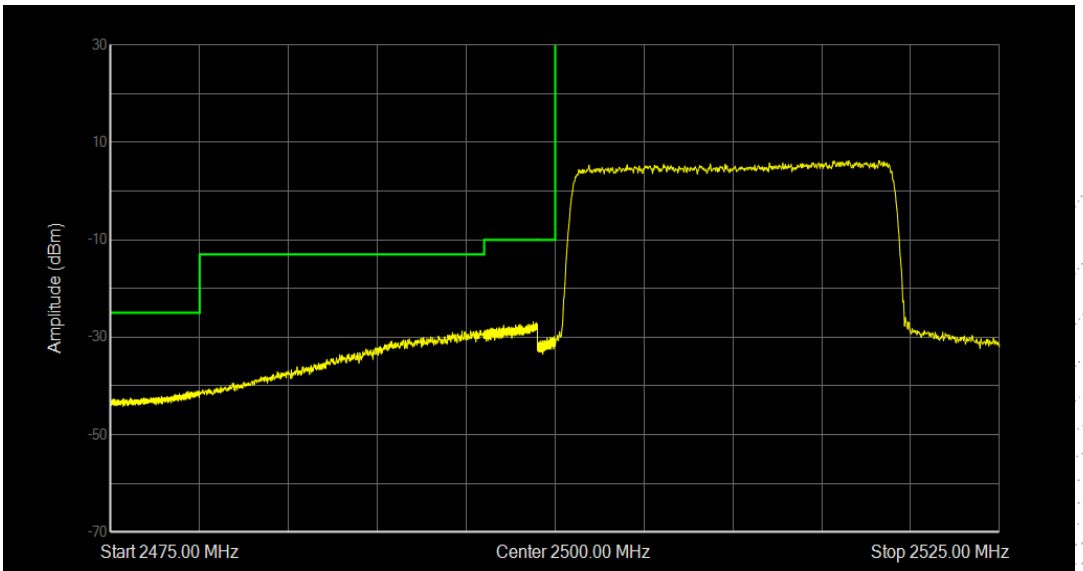



| Range | Start (MHz) | Stop (MHz) | RBW (kHz) | Spur Freq (MHz) | Spur Level (dBm) | Limit (dBm) |
|---|---|---|---|---|---|---|
| 1 | 2570 | 2571 | 300 | 2570.409 | -29.98 | -10 |
| 2 | 2571 | 2575 | 1000 | 2572.264 | -24.73 | -10 |
| 3 | 2575 | 2585 | 1000 | 2575.5 | -26.5 | -13 |
| 4 | 2585 | 2595 | 1000 | 2585.14 | -35.65 | -25 |

Band7 16QAM BW=15MHz Channel=21375 RB Size=75 Position=#0

| Range | Start (MHz) | Stop (MHz) | RBW (kHz) | Spur Freq (MHz) | Spur Level (dBm) | Limit (dBm) |
|---|---|---|---|---|---|---|
| 1 | 2570 | 2571 | 300 | 2570.098 | -32.89 | -10 |
| 2 | 2571 | 2575 | 1000 | 2571.448 | -28.11 | -10 |
| 3 | 2575 | 2585 | 1000 | 2575.54 | -29.59 | -13 |
| 4 | 2585 | 2595 | 1000 | 2585.18 | -35.83 | -25 |

Band7 QPSK BW=20MHz Channel=20850 RB Size=100 Position=#0

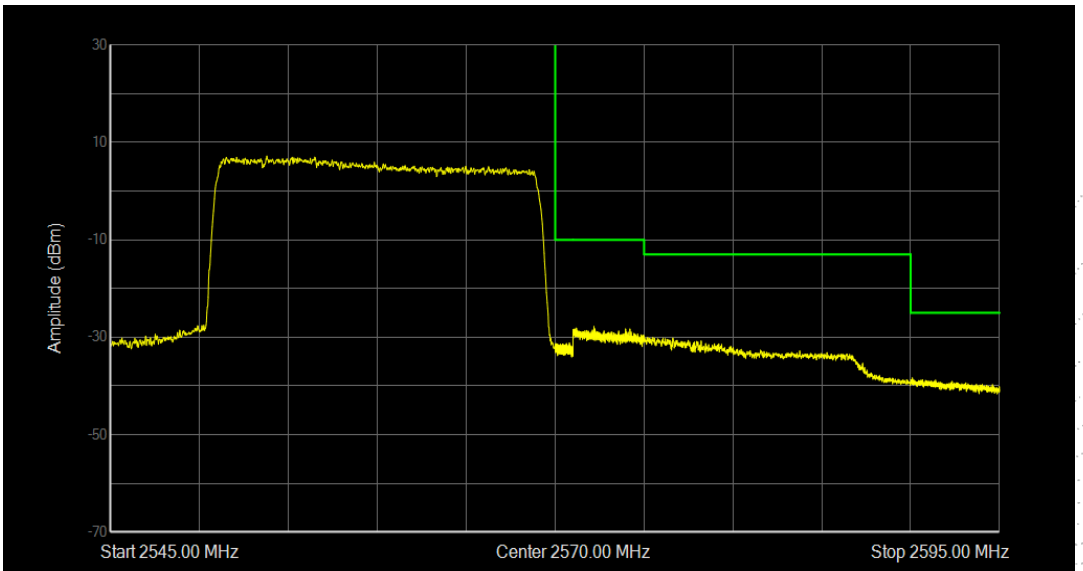



| Range | Start (MHz) | Stop (MHz) | RBW (kHz) | Spur Freq (MHz) | Spur Level (dBm) | Limit (dBm) |
|---|---|---|---|---|---|---|
| 1 | 2475 | 2480 | 1000 | 2479.955 | -41.07 | -25 |
| 2 | 2480 | 2496 | 1000 | 2495.808 | -28.62 | -13 |
| 3 | 2496 | 2499 | 1000 | 2498.76 | -26.82 | -10 |
| 4 | 2499 | 2500 | 430 | 2499.938 | -29.87 | -10 |

Band7 16QAM BW=20MHz Channel=20850 RB Size=100 Position=#0

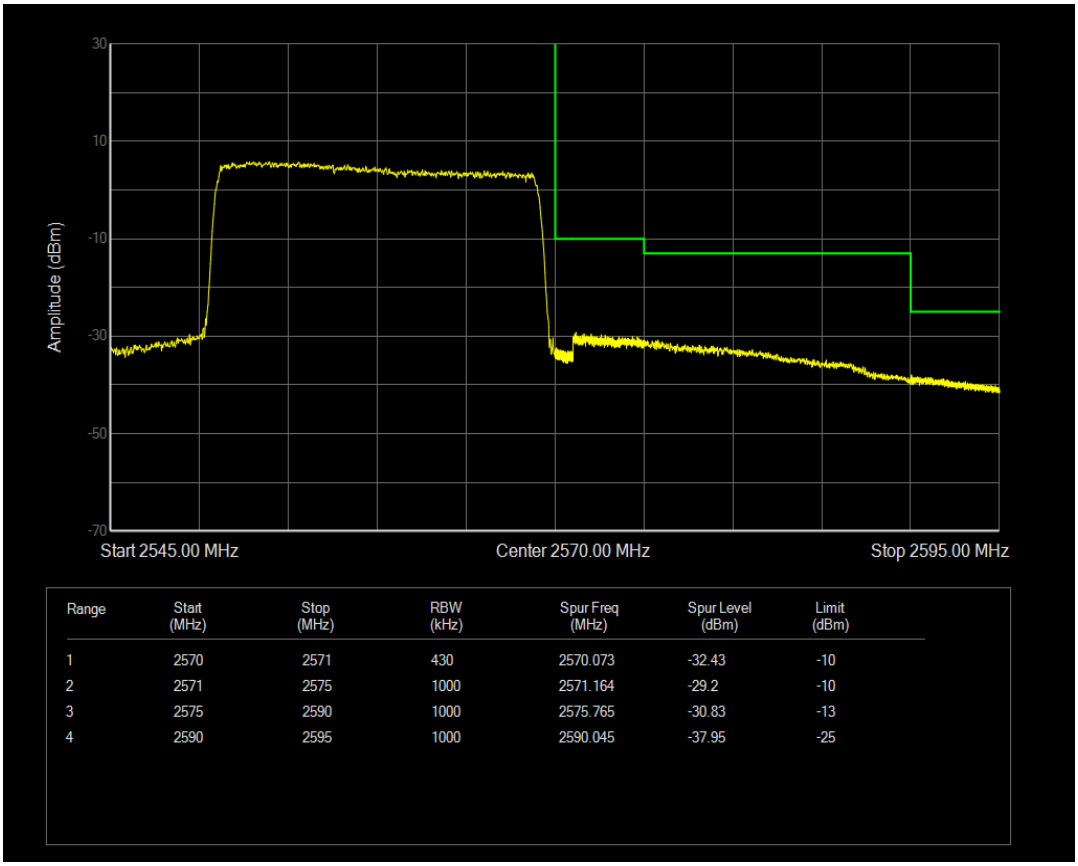
| Range | Start (MHz) | Stop (MHz) | RBW (kHz) | Spur Freq (MHz) | Spur Level (dBm) | Limit (dBm) |
|---|---|---|---|---|---|---|
| 1 | 2475 | 2480 | 1000 | 2479.755 | -41.64 | -25 |
| 2 | 2480 | 2496 | 1000 | 2495.104 | -30.19 | -13 |
| 3 | 2496 | 2499 | 1000 | 2498.172 | -28.58 | -10 |
| 4 | 2499 | 2500 | 430 | 2499.498 | -31.4 | -10 |

Band7 QPSK BW=20MHz Channel=21350 RB Size=100 Position=#0




| Range | Start (MHz) | Stop (MHz) | RBW (kHz) | Spur Freq (MHz) | Spur Level (dBm) | Limit (dBm) |
|---|---|---|---|---|---|---|
| 1 | 2570 | 2571 | 430 | 2570.798 | -31.18 | -10 |
| 2 | 2571 | 2575 | 1000 | 2572.176 | -27.79 | -10 |
| 3 | 2575 | 2590 | 1000 | 2575.495 | -30.06 | -13 |
| 4 | 2590 | 2595 | 1000 | 2590.095 | -38.34 | -25 |

Band7 16QAM BW=20MHz Channel=21350 RB Size=100 Position=#0

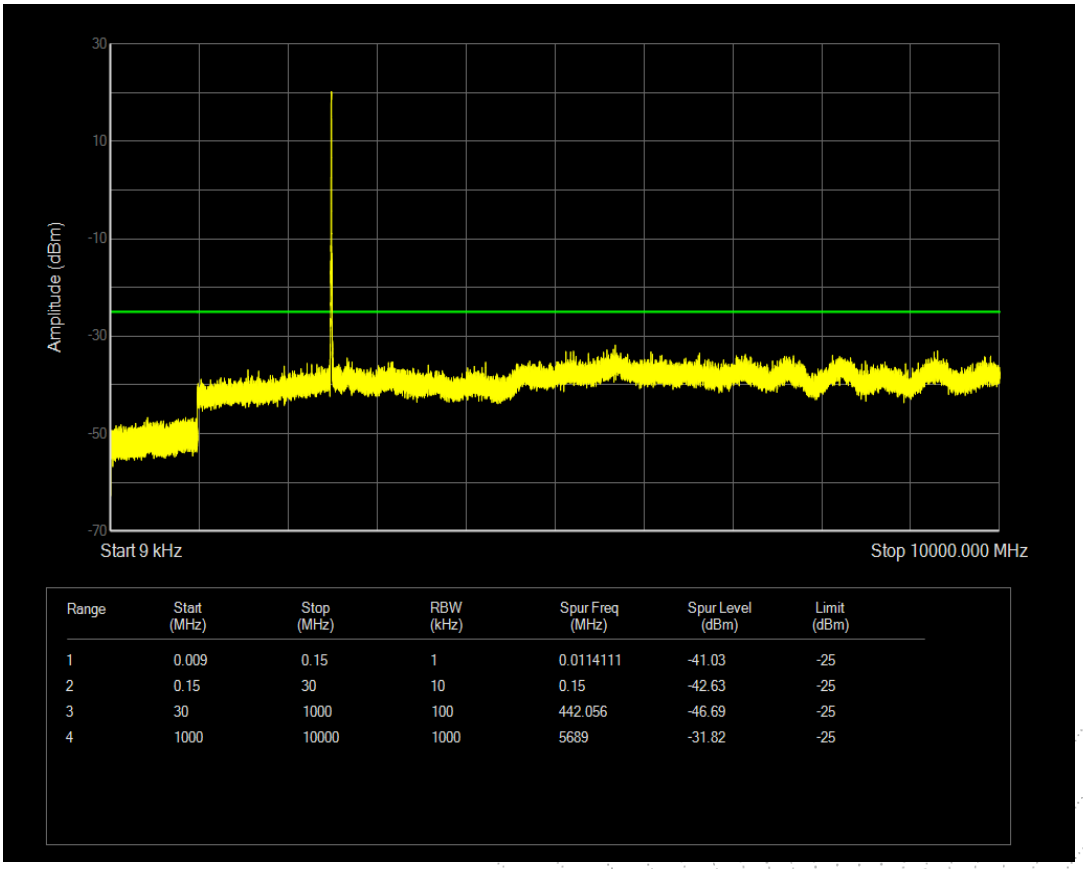



## Appendix 6. Out-of-band emissions

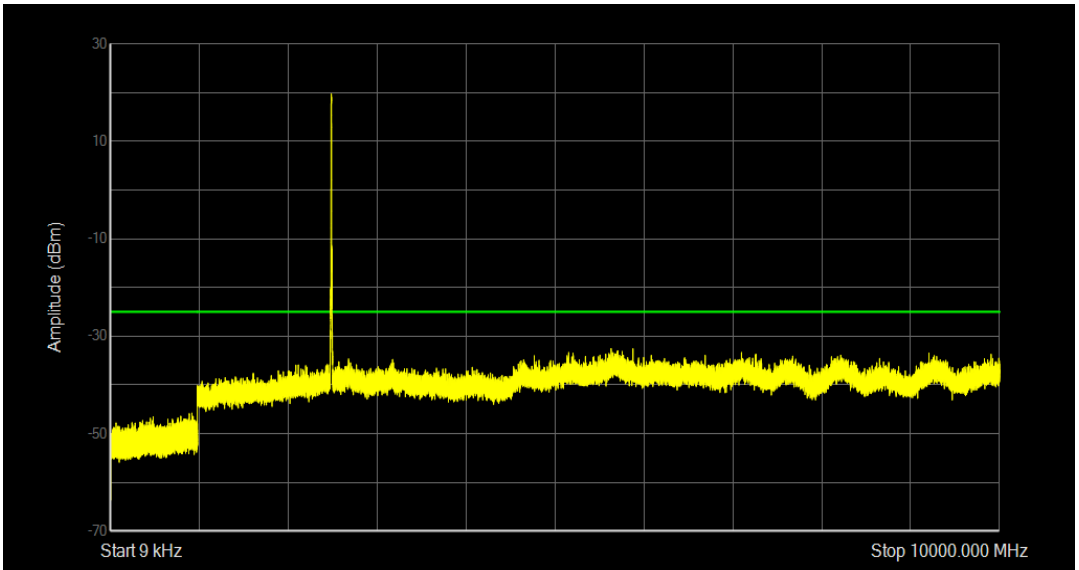
| Band | Bandwidth (MHz) | UL Channel | RB Size | RB Position | Modulation | Spur Freq (MHz) | Spur Level (dBm) | Limit (dBm) | Verdict |
|---|---|---|---|---|---|---|---|---|---|
| Band7 | 5 | 20775 | 25 | #0 | QPSK | 5689.00 | -31.82 | -25 | PASS |
| Band7 | 5 | 20775 | 25 | #0 | 16QAM | 5642.20 | -32.52 | -25 | PASS |
| Band7 | 5 | 21100 | 25 | #0 | QPSK | 5693.05 | -32.90 | -25 | PASS |
| Band7 | 5 | 21100 | 25 | #0 | 16QAM | 5767.53 | -32.50 | -25 | PASS |
| Band7 | 5 | 21425 | 25 | #0 | QPSK | 5594.28 | -31.68 | -25 | PASS |
| Band7 | 5 | 21425 | 25 | #0 | 16QAM | 5768.20 | -32.50 | -25 | PASS |
| Band7 | 10 | 20800 | 50 | #0 | QPSK | 5707.68 | -33.02 | -25 | PASS |
| Band7 | 10 | 20800 | 50 | #0 | 16QAM | 7140.25 | -31.87 | -25 | PASS |
| Band7 | 10 | 21100 | 50 | #0 | QPSK | 5716.45 | -32.60 | -25 | PASS |
| Band7 | 10 | 21100 | 50 | #0 | 16QAM | 5705.20 | -32.33 | -25 | PASS |
| Band7 | 10 | 21400 | 50 | #0 | QPSK | 5694.85 | -32.53 | -25 | PASS |
| Band7 | 10 | 21400 | 50 | #0 | 16QAM | 5687.88 | -32.95 | -25 | PASS |
| Band7 | 15 | 20825 | 75 | #0 | QPSK | 5678.88 | -32.49 | -25 | PASS |
| Band7 | 15 | 20825 | 75 | #0 | 16QAM | 5549.73 | -32.29 | -25 | PASS |
| Band7 | 15 | 21100 | 75 | #0 | QPSK | 5725.45 | -32.40 | -25 | PASS |
| Band7 | 15 | 21100 | 75 | #0 | 16QAM | 5676.63 | -32.62 | -25 | PASS |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Band7 | 15 | 21375 | 75 | #0 | QPSK | 5713.53 | -31.79 | -25 | PASS |
| Band7 | 15 | 21375 | 75 | #0 | 16QAM | 5703.40 | -32.61 | -25 | PASS |
| Band7 | 20 | 20850 | 100 | #0 | QPSK | 5688.55 | -32.85 | -25 | PASS |
| Band7 | 20 | 20850 | 100 | #0 | 16QAM | 5685.63 | -31.27 | -25 | PASS |
| Band7 | 20 | 21100 | 100 | #0 | QPSK | 5689.00 | -32.17 | -25 | PASS |
| Band7 | 20 | 21100 | 100 | #0 | 16QAM | 5721.85 | -31.86 | -25 | PASS |
| Band7 | 20 | 21350 | 100 | #0 | QPSK | 5905.23 | -32.72 | -25 | PASS |
| Band7 | 20 | 21350 | 100 | #0 | 16QAM | 5635.00 | -32.62 | -25 | PASS |

Band7 QPSK BW=5MHz Channel=20775 RB Size=25 Position=#0

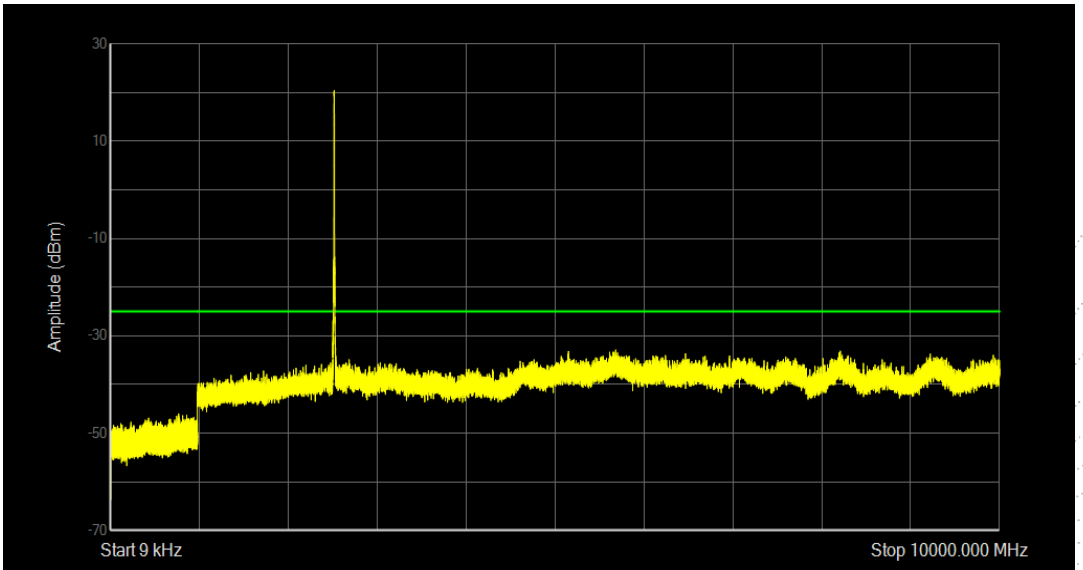



Band7 16QAM BW=5MHz Channel=20775 RB Size=25 Position=#0



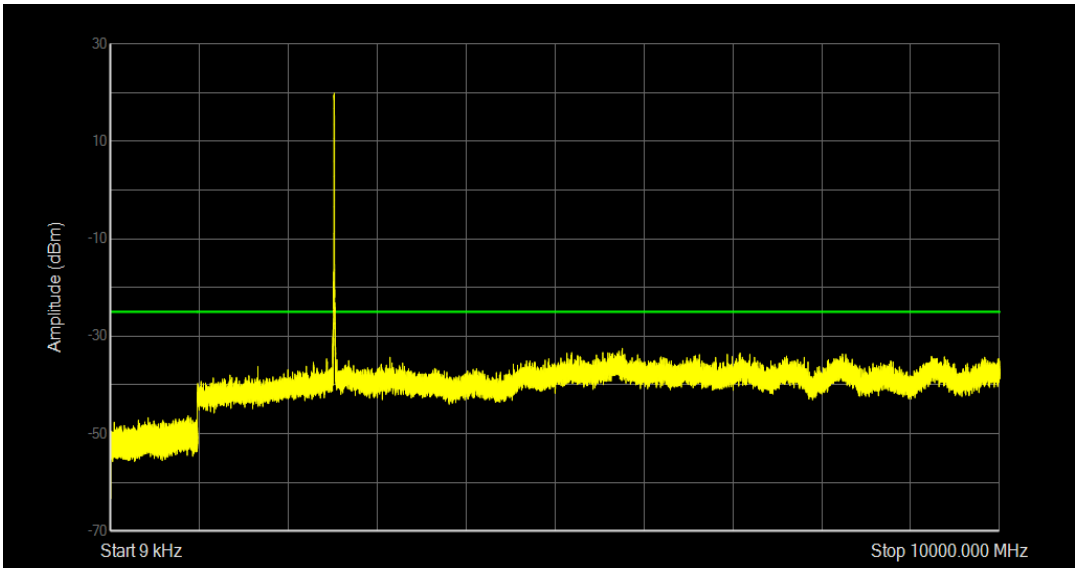

| Range | Start (MHz) | Stop (MHz) | RBW (kHz) | Spur Freq (MHz) | Spur Level (dBm) | Limit (dBm) |
|---|---|---|---|---|---|---|
| 1 | 0.009 | 0.15 | 1 | 0.009299625 | -42.38 | -25 |
| 2 | 0.15 | 30 | 10 | 0.17388 | -44.87 | -25 |
| 3 | 30 | 1000 | 100 | 940.02975 | -45.77 | -25 |
| 4 | 1000 | 10000 | 1000 | 5642.2 | -32.52 | -25 |

Band7 QPSK BW=5MHz Channel=21100 RB Size=25 Position=#0



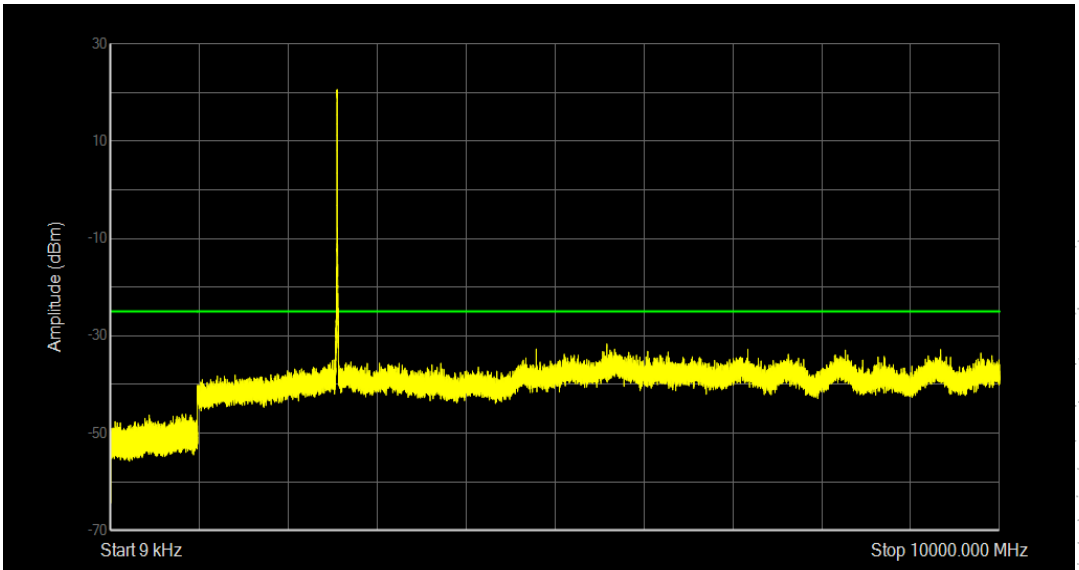

| Range | Start (MHz) | Stop (MHz) | RBW (kHz) | Spur Freq (MHz) | Spur Level (dBm) | Limit (dBm) |
|---|---|---|---|---|---|---|
| 1 | 0.009 | 0.15 | 1 | 0.011661375 | -41.86 | -25 |
| 2 | 0.15 | 30 | 10 | 0.164925 | -44.06 | -25 |
| 3 | 30 | 1000 | 100 | 790.48 | -46.03 | -25 |
| 4 | 1000 | 10000 | 1000 | 5693.05 | -32.9 | -25 |

Band7 16QAM BW=5MHz Channel=21100 RB Size=25 Position=#0



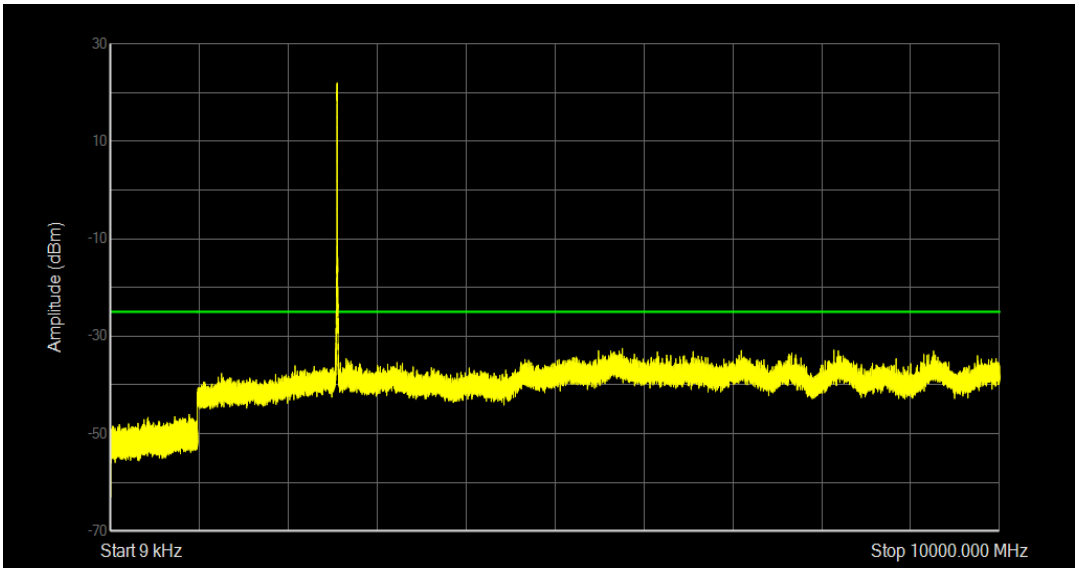

| Range | Start (MHz) | Stop (MHz) | RBW (kHz) | Spur Freq (MHz) | Spur Level (dBm) | Limit (dBm) |
|---|---|---|---|---|---|---|
| 1 | 0.009 | 0.15 | 1 | 0.009257325 | -42.61 | -25 |
| 2 | 0.15 | 30 | 10 | 0.16865625 | -43.94 | -25 |
| 3 | 30 | 1000 | 100 | 897.59225 | -46.37 | -25 |
| 4 | 1000 | 10000 | 1000 | 5767.525 | -32.5 | -25 |

Band7 QPSK BW=5MHz Channel=21425 RB Size=25 Position=#0



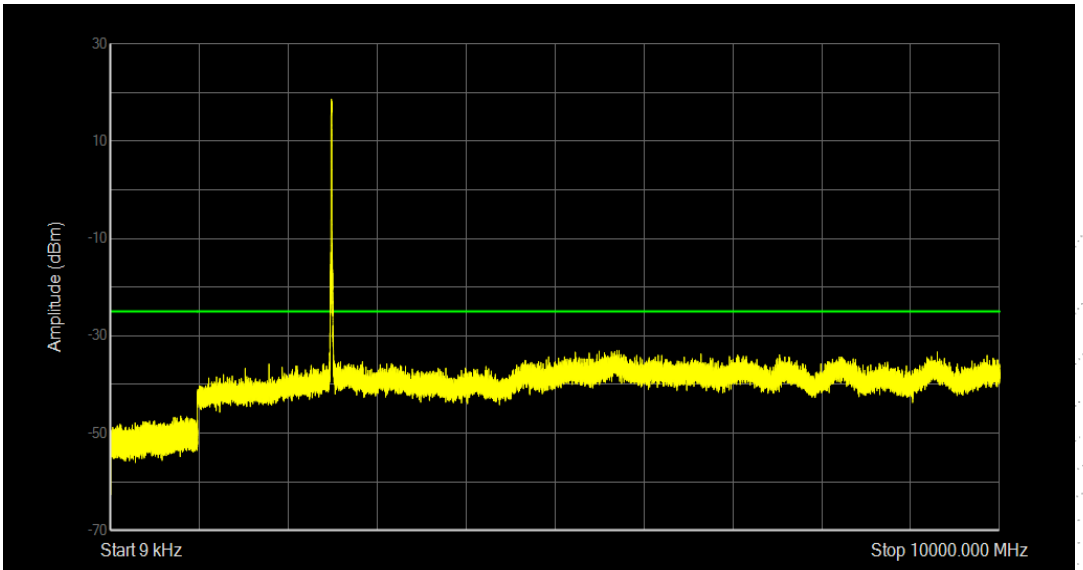

| Range | Start (MHz) | Stop (MHz) | RBW (kHz) | Spur Freq (MHz) | Spur Level (dBm) | Limit (dBm) |
|---|---|---|---|---|---|---|
| 1 | 0.009 | 0.15 | 1 | 0.009 | -41.69 | -25 |
| 2 | 0.15 | 30 | 10 | 0.15 | -42.09 | -25 |
| 3 | 30 | 1000 | 100 | 870.43225 | -46.12 | -25 |
| 4 | 1000 | 10000 | 1000 | 5594.275 | -31.68 | -25 |

Band7 16QAM BW=5MHz Channel=21425 RB Size=25 Position=#0



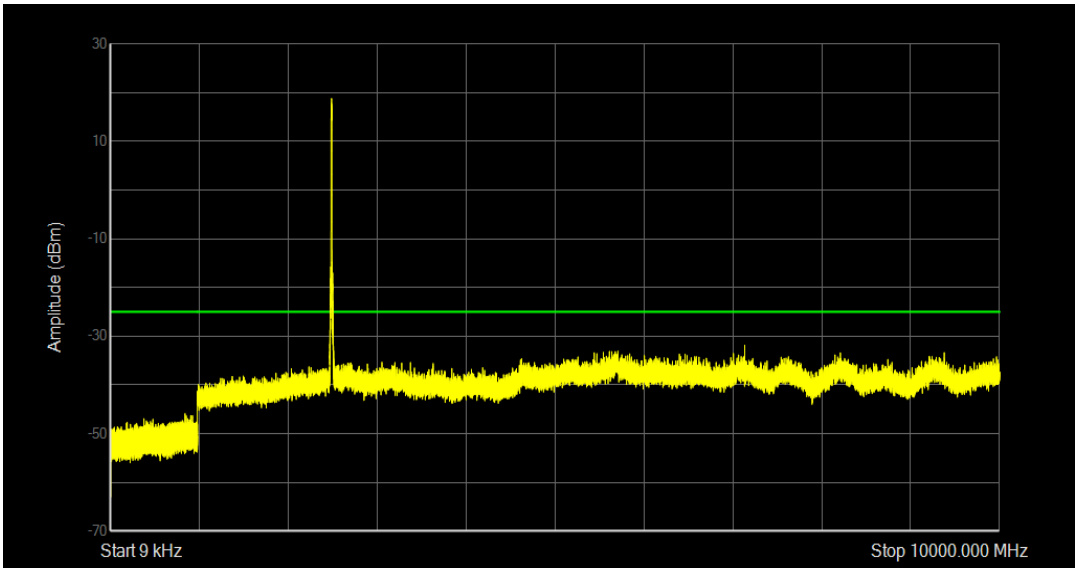

| Range | Start (MHz) | Stop (MHz) | RBW (kHz) | Spur Freq (MHz) | Spur Level (dBm) | Limit (dBm) |
|---|---|---|---|---|---|---|
| 1 | 0.009 | 0.15 | 1 | 0.0109458 | -41.97 | -25 |
| 2 | 0.15 | 30 | 10 | 0.15671625 | -44.36 | -25 |
| 3 | 30 | 1000 | 100 | 908.21375 | -46.06 | -25 |
| 4 | 1000 | 10000 | 1000 | 5768.2 | -32.5 | -25 |

Band7 QPSK BW=10MHz Channel=20800 RB Size=50 Position=#0



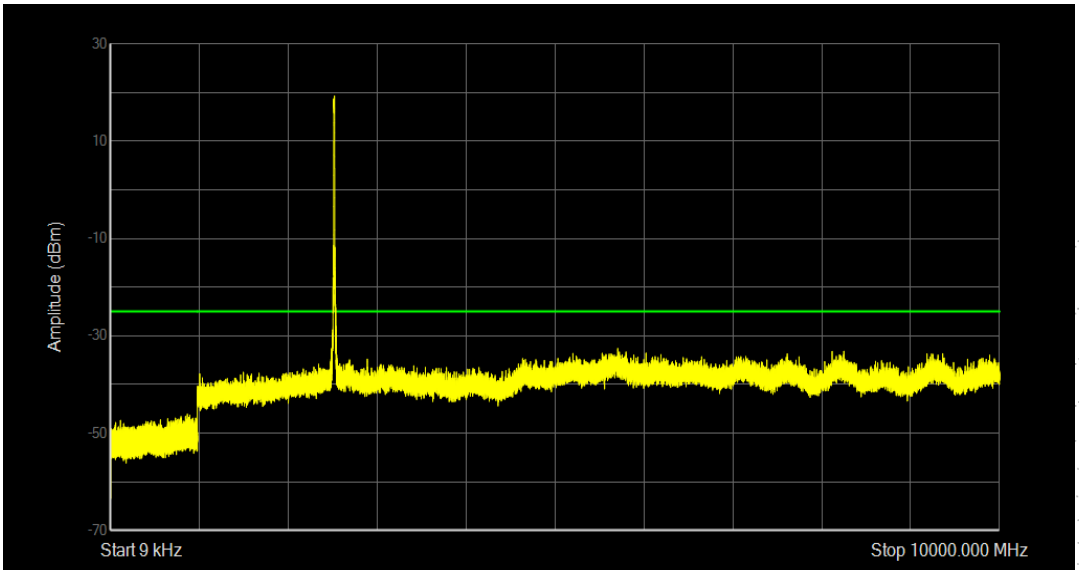

| Range | Start (MHz) | Stop (MHz) | RBW (kHz) | Spur Freq (MHz) | Spur Level (dBm) | Limit (dBm) |
|---|---|---|---|---|---|---|
| 1 | 0.009 | 0.15 | 1 | 0.00969795 | -42.94 | -25 |
| 2 | 0.15 | 30 | 10 | 0.15522375 | -44.22 | -25 |
| 3 | 30 | 1000 | 100 | 813.178 | -46.48 | -25 |
| 4 | 1000 | 10000 | 1000 | 5707.675 | -33.02 | -25 |

Band7 16QAM BW=10MHz Channel=20800 RB Size=50 Position=#0



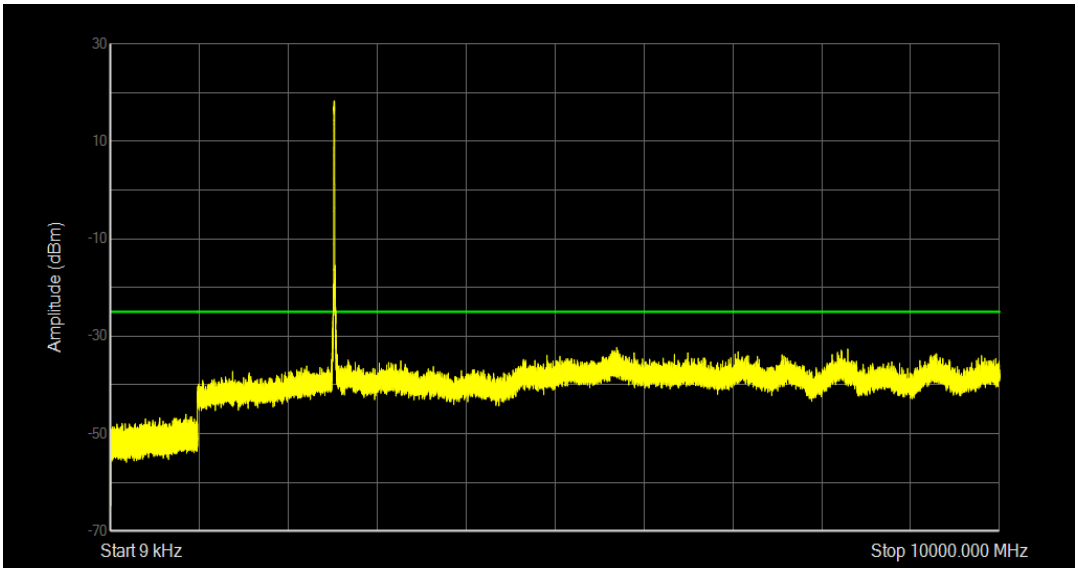

| Range | Start (MHz) | Stop (MHz) | RBW (kHz) | Spur Freq (MHz) | Spur Level (dBm) | Limit (dBm) |
|---|---|---|---|---|---|---|
| 1 | 0.009 | 0.15 | 1 | 0.0091269 | -42.61 | -25 |
| 2 | 0.15 | 30 | 10 | 0.15074625 | -41.97 | -25 |
| 3 | 30 | 1000 | 100 | 862.47825 | -45.92 | -25 |
| 4 | 1000 | 10000 | 1000 | 7140.25 | -31.87 | -25 |

Band7 QPSK BW=10MHz Channel=21100 RB Size=50 Position=#0



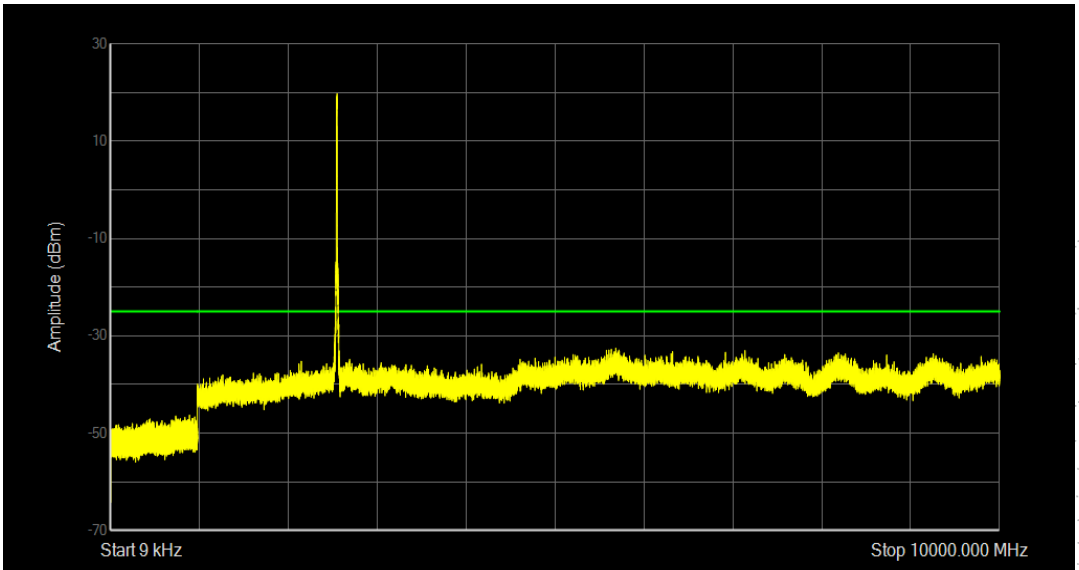

| Range | Start (MHz) | Stop (MHz) | RBW (kHz) | Spur Freq (MHz) | Spur Level (dBm) | Limit (dBm) |
|---|---|---|---|---|---|---|
| 1 | 0.009 | 0.15 | 1 | 0.0090705 | -42.34 | -25 |
| 2 | 0.15 | 30 | 10 | 0.15223875 | -45.24 | -25 |
| 3 | 30 | 1000 | 100 | 888.57125 | -46.1 | -25 |
| 4 | 1000 | 10000 | 1000 | 5716.45 | -32.6 | -25 |

Band7 16QAM BW=10MHz Channel=21100 RB Size=50 Position=#0



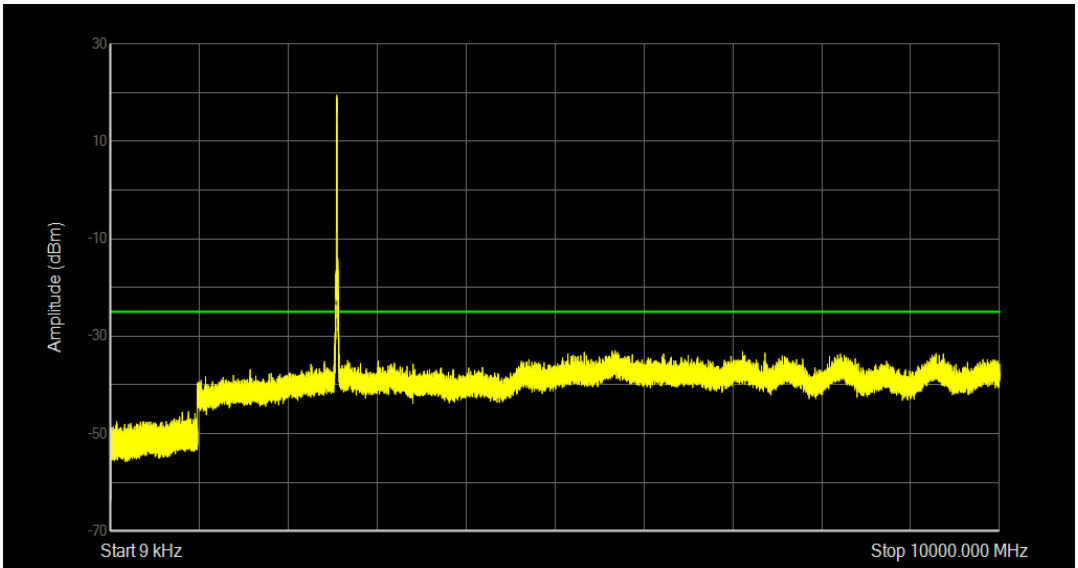

| Range | Start (MHz) | Stop (MHz) | RBW (kHz) | Spur Freq (MHz) | Spur Level (dBm) | Limit (dBm) |
|---|---|---|---|---|---|---|
| 1 | 0.009 | 0.15 | 1 | 0.010046925 | -41.79 | -25 |
| 2 | 0.15 | 30 | 10 | 0.158955 | -44.84 | -25 |
| 3 | 30 | 1000 | 100 | 871.59625 | -46.02 | -25 |
| 4 | 1000 | 10000 | 1000 | 5705.2 | -32.33 | -25 |

Band7 QPSK BW=10MHz Channel=21400 RB Size=50 Position=#0



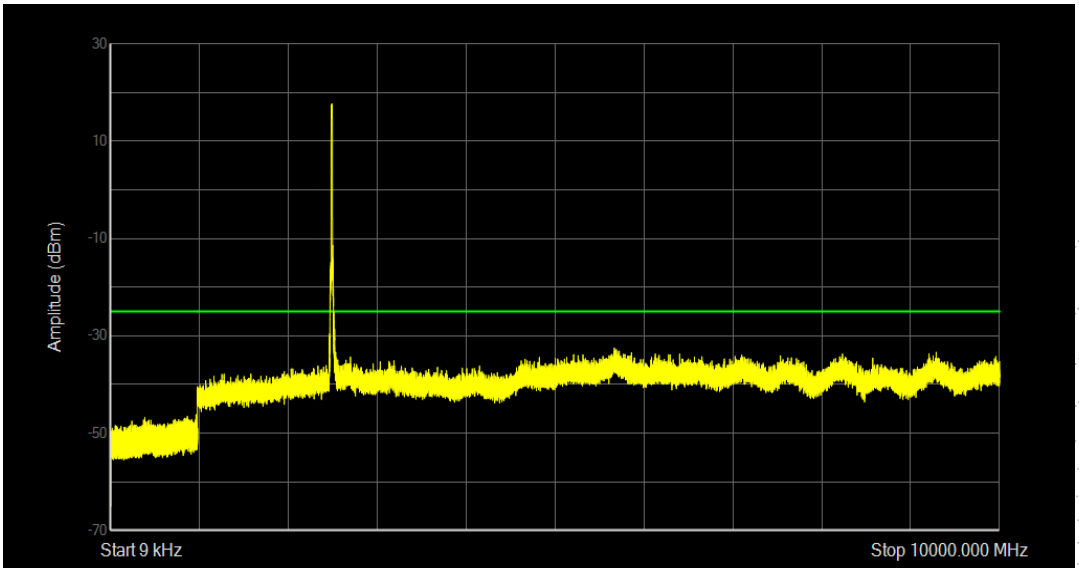

| Range | Start (MHz) | Stop (MHz) | RBW (kHz) | Spur Freq (MHz) | Spur Level (dBm) | Limit (dBm) |
|---|---|---|---|---|---|---|
| 1 | 0.009 | 0.15 | 1 | 0.01067085 | -42.93 | -25 |
| 2 | 0.15 | 30 | 10 | 0.15 | -43.61 | -25 |
| 3 | 30 | 1000 | 100 | 912.43325 | -46.33 | -25 |
| 4 | 1000 | 10000 | 1000 | 5694.85 | -32.53 | -25 |

Band7 16QAM BW=10MHz Channel=21400 RB Size=50 Position=#0



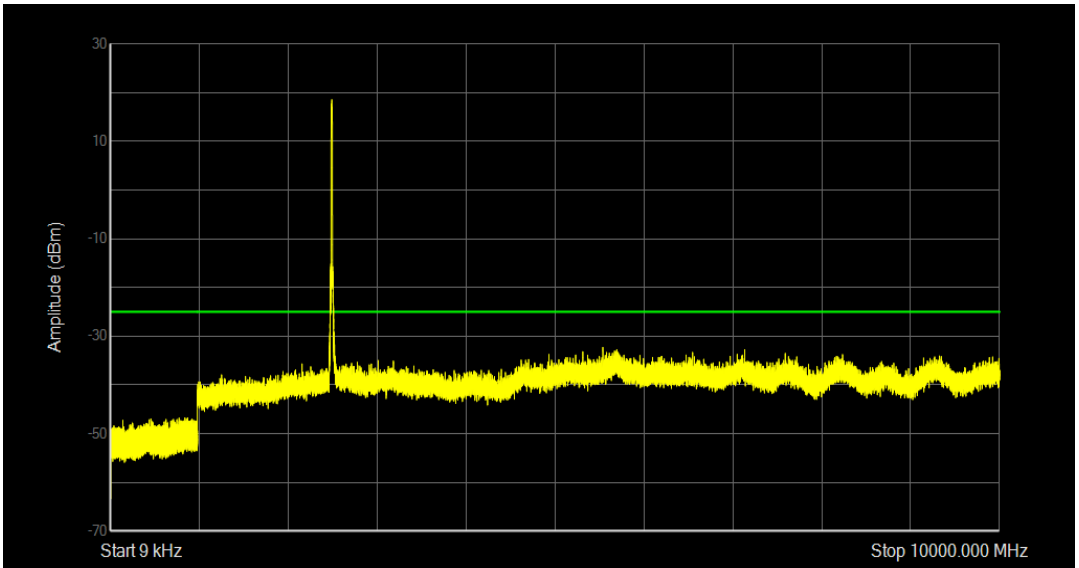

| Range | Start (MHz) | Stop (MHz) | RBW (kHz) | Spur Freq (MHz) | Spur Level (dBm) | Limit (dBm) |
|---|---|---|---|---|---|---|
| 1 | 0.009 | 0.15 | 1 | 0.009 | -42.27 | -25 |
| 2 | 0.15 | 30 | 10 | 0.15 | -42.95 | -25 |
| 3 | 30 | 1000 | 100 | 900.45375 | -45.48 | -25 |
| 4 | 1000 | 10000 | 1000 | 5687.875 | -32.95 | -25 |

Band7 QPSK BW=15MHz Channel=20825 RB Size=75 Position=#0



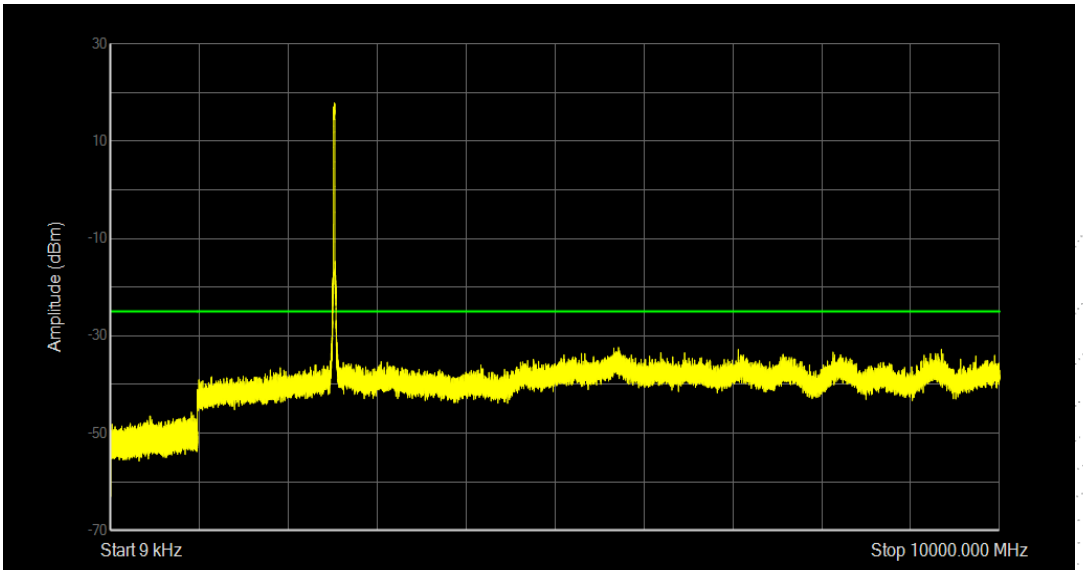

| Range | Start (MHz) | Stop (MHz) | RBW (kHz) | Spur Freq (MHz) | Spur Level (dBm) | Limit (dBm) |
|---|---|---|---|---|---|---|
| 1 | 0.009 | 0.15 | 1 | 0.01115025 | -42.62 | -25 |
| 2 | 0.15 | 30 | 10 | 0.1514925 | -42.79 | -25 |
| 3 | 30 | 1000 | 100 | 984.89225 | -46.21 | -25 |
| 4 | 1000 | 10000 | 1000 | 5678.875 | -32.49 | -25 |

Band7 16QAM BW=15MHz Channel=20825 RB Size=75 Position=#0



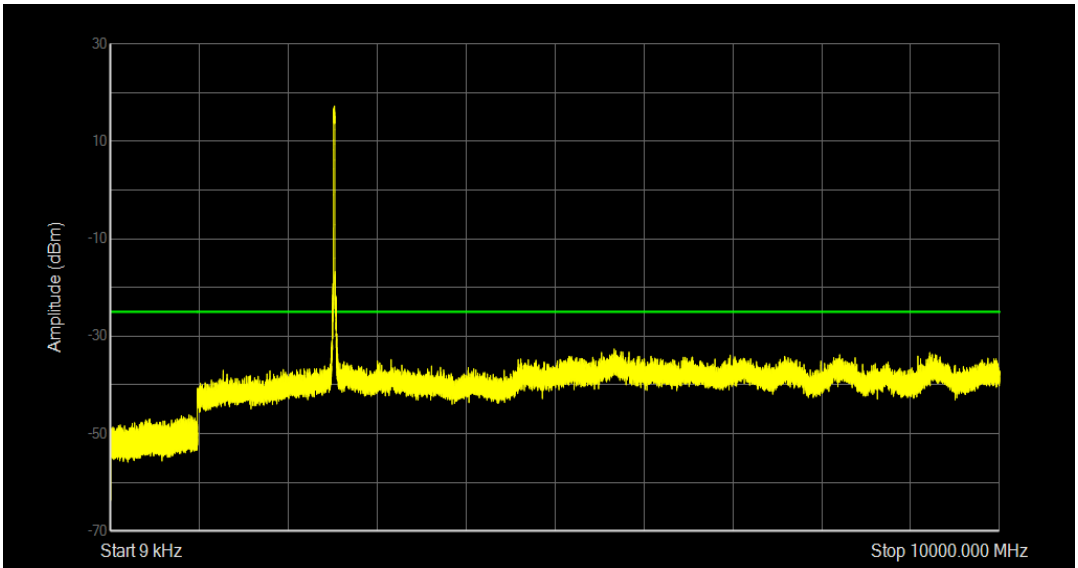

| Range | Start (MHz) | Stop (MHz) | RBW (kHz) | Spur Freq (MHz) | Spur Level (dBm) | Limit (dBm) |
|---|---|---|---|---|---|---|
| 1 | 0.009 | 0.15 | 1 | 0.009412425 | -40.85 | -25 |
| 2 | 0.15 | 30 | 10 | 0.15 | -41.11 | -25 |
| 3 | 30 | 1000 | 100 | 860.97475 | -46.76 | -25 |
| 4 | 1000 | 10000 | 1000 | 5549.725 | -32.29 | -25 |

Band7 QPSK BW=15MHz Channel=21100 RB Size=75 Position=#0



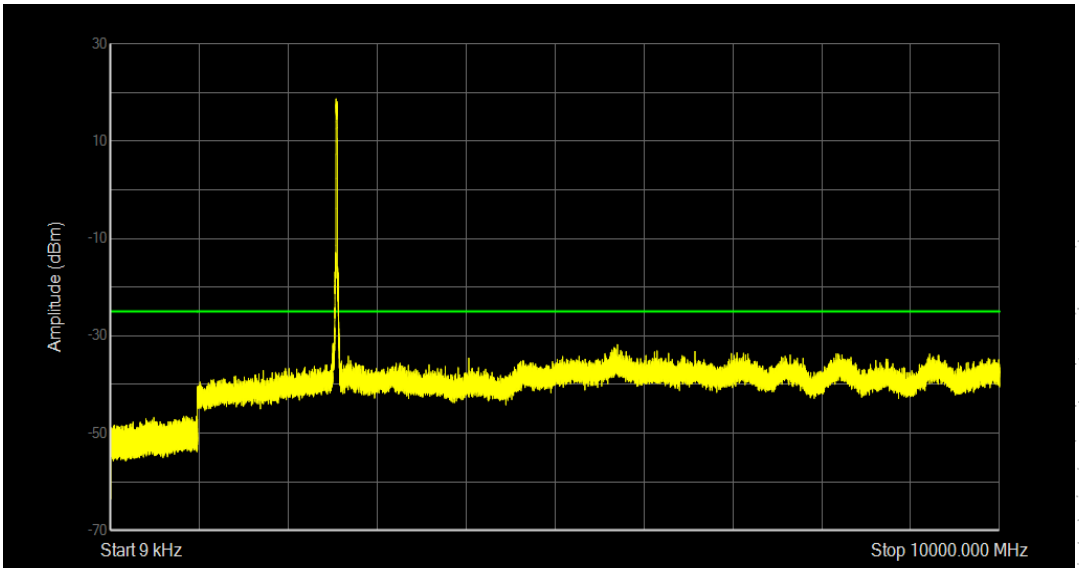

| Range | Start (MHz) | Stop (MHz) | RBW (kHz) | Spur Freq (MHz) | Spur Level (dBm) | Limit (dBm) |
|---|---|---|---|---|---|---|
| 1 | 0.009 | 0.15 | 1 | 0.010096275 | -41.68 | -25 |
| 2 | 0.15 | 30 | 10 | 0.15074625 | -42.18 | -25 |
| 3 | 30 | 1000 | 100 | 933.14275 | -45.72 | -25 |
| 4 | 1000 | 10000 | 1000 | 5725.45 | -32.4 | -25 |

Band7 16QAM BW=15MHz Channel=21100 RB Size=75 Position=#0



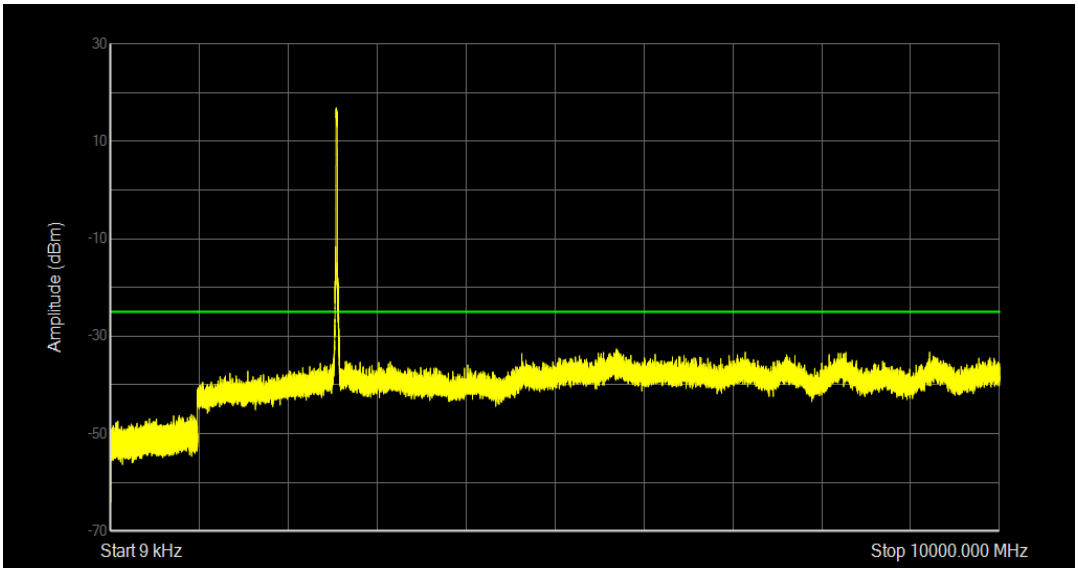

| Range | Start (MHz) | Stop (MHz) | RBW (kHz) | Spur Freq (MHz) | Spur Level (dBm) | Limit (dBm) |
|---|---|---|---|---|---|---|
| 1 | 0.009 | 0.15 | 1 | 0.01078365 | -42.67 | -25 |
| 2 | 0.15 | 30 | 10 | 0.15373125 | -43.73 | -25 |
| 3 | 30 | 1000 | 100 | 907.85 | -46.15 | -25 |
| 4 | 1000 | 10000 | 1000 | 5676.625 | -32.62 | -25 |

Band7 QPSK BW=15MHz Channel=21375 RB Size=75 Position=#0



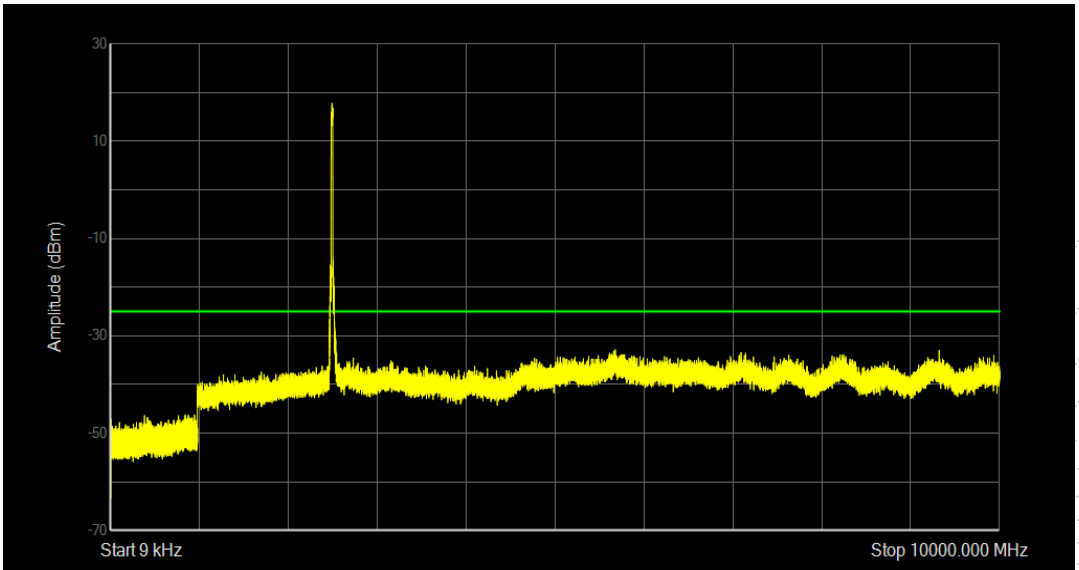

| Range | Start (MHz) | Stop (MHz) | RBW (kHz) | Spur Freq (MHz) | Spur Level (dBm) | Limit (dBm) |
|---|---|---|---|---|---|---|
| 1 | 0.009 | 0.15 | 1 | 0.009567525 | -42.87 | -25 |
| 2 | 0.15 | 30 | 10 | 0.15522375 | -42.57 | -25 |
| 3 | 30 | 1000 | 100 | 877.12525 | -46.56 | -25 |
| 4 | 1000 | 10000 | 1000 | 5713.525 | -31.79 | -25 |

Band7 16QAM BW=15MHz Channel=21375 RB Size=75 Position=#0



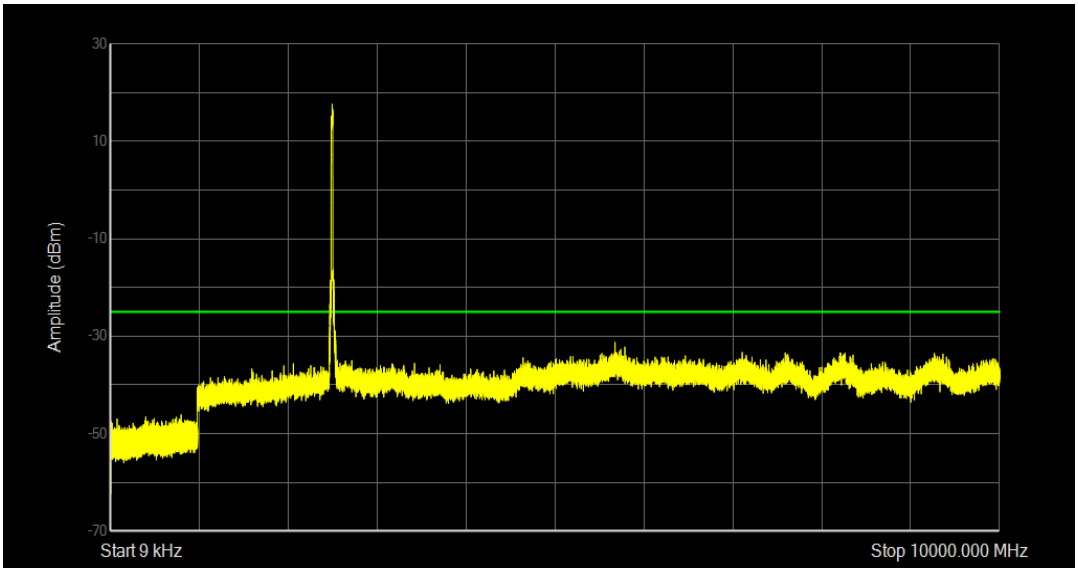

| Range | Start (MHz) | Stop (MHz) | RBW (kHz) | Spur Freq (MHz) | Spur Level (dBm) | Limit (dBm) |
|---|---|---|---|---|---|---|
| 1 | 0.009 | 0.15 | 1 | 0.0093243 | -42.79 | -25 |
| 2 | 0.15 | 30 | 10 | 0.15373125 | -43.83 | -25 |
| 3 | 30 | 1000 | 100 | 933.33675 | -46.11 | -25 |
| 4 | 1000 | 10000 | 1000 | 5703.4 | -32.61 | -25 |

Band7 QPSK BW=20MHz Channel=20850 RB Size=100 Position=#0



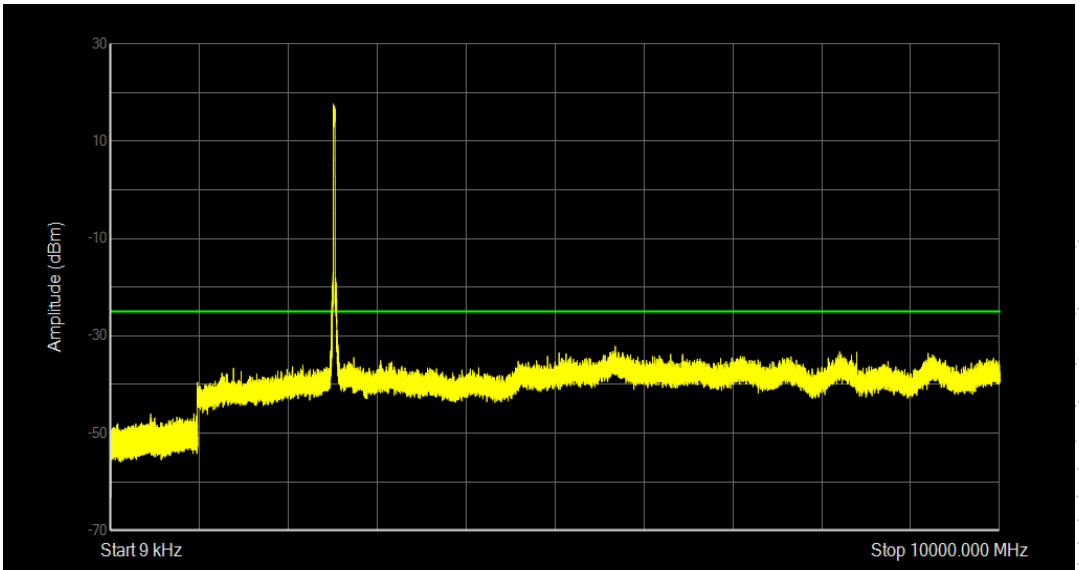

| Range | Start (MHz) | Stop (MHz) | RBW (kHz) | Spur Freq (MHz) | Spur Level (dBm) | Limit (dBm) |
|---|---|---|---|---|---|---|
| 1 | 0.009 | 0.15 | 1 | 0.0096345 | -43.19 | -25 |
| 2 | 0.15 | 30 | 10 | 0.1514925 | -43.53 | -25 |
| 3 | 30 | 1000 | 100 | 863.4725 | -46.26 | -25 |
| 4 | 1000 | 10000 | 1000 | 5688.55 | -32.85 | -25 |

Band7 16QAM BW=20MHz Channel=20850 RB Size=100 Position=#0



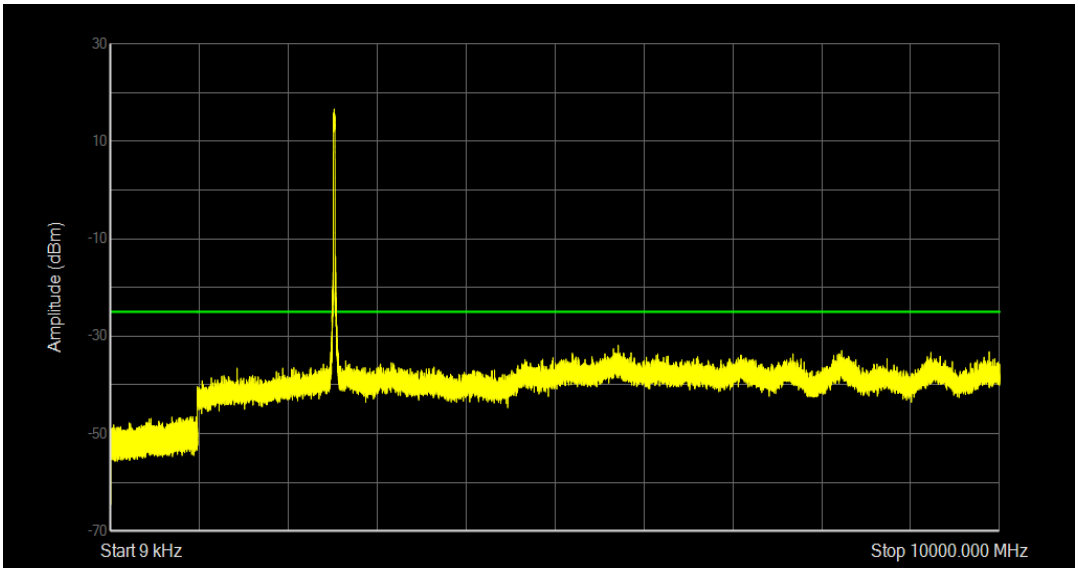

| Range | Start (MHz) | Stop (MHz) | RBW (kHz) | Spur Freq (MHz) | Spur Level (dBm) | Limit (dBm) |
|---|---|---|---|---|---|---|
| 1 | 0.009 | 0.15 | 1 | 0.00914805 | -42.14 | -25 |
| 2 | 0.15 | 30 | 10 | 0.15074625 | -43.19 | -25 |
| 3 | 30 | 1000 | 100 | 817.4945 | -46.15 | -25 |
| 4 | 1000 | 10000 | 1000 | 5685.625 | -31.27 | -25 |

Band7 QPSK BW=20MHz Channel=21100 RB Size=100 Position=#0



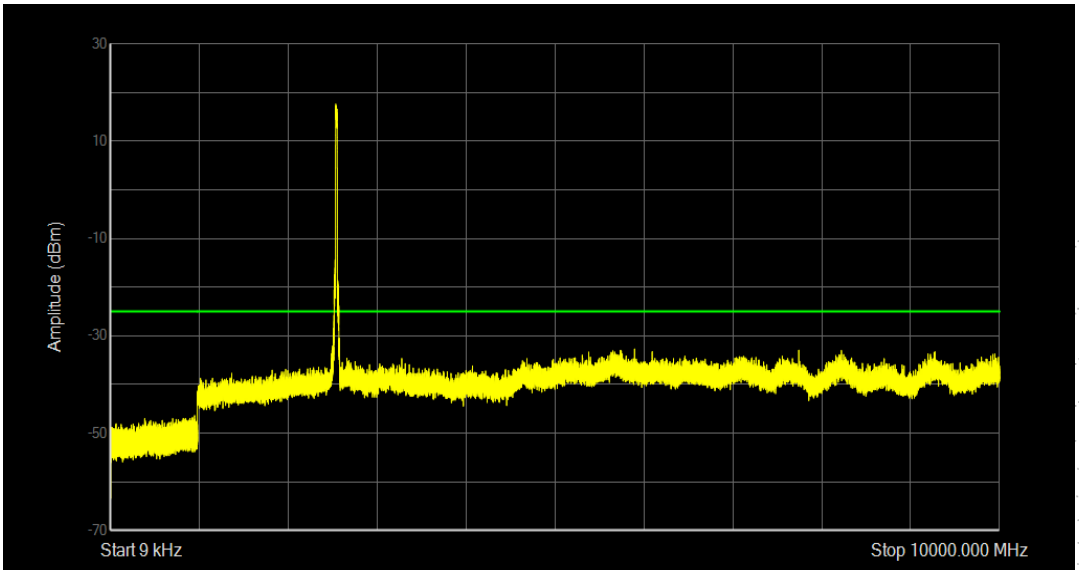

| Range | Start (MHz) | Stop (MHz) | RBW (kHz) | Spur Freq (MHz) | Spur Level (dBm) | Limit (dBm) |
|---|---|---|---|---|---|---|
| 1 | 0.009 | 0.15 | 1 | 0.010413525 | -41.58 | -25 |
| 2 | 0.15 | 30 | 10 | 0.16119375 | -44.79 | -25 |
| 3 | 30 | 1000 | 100 | 961.90325 | -46 | -25 |
| 4 | 1000 | 10000 | 1000 | 5689 | -32.17 | -25 |

Band7 16QAM BW=20MHz Channel=21100 RB Size=100 Position=#0



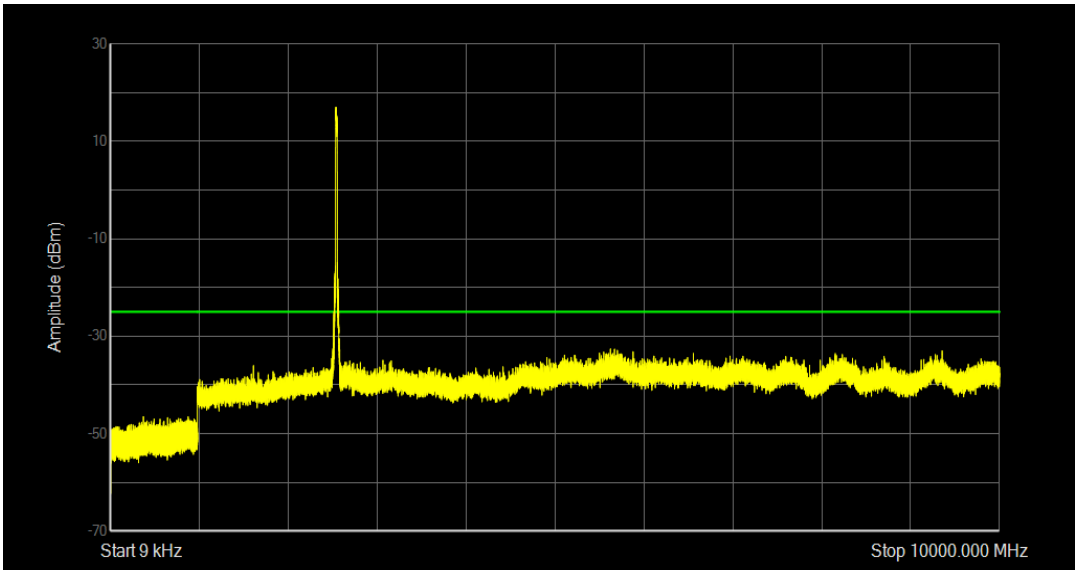

| Range | Start (MHz) | Stop (MHz) | RBW (kHz) | Spur Freq (MHz) | Spur Level (dBm) | Limit (dBm) |
|---|---|---|---|---|---|---|
| 1 | 0.009 | 0.15 | 1 | 0.0100575 | -42.16 | -25 |
| 2 | 0.15 | 30 | 10 | 0.15223875 | -43.01 | -25 |
| 3 | 30 | 1000 | 100 | 931.05725 | -46.48 | -25 |
| 4 | 1000 | 10000 | 1000 | 5721.85 | -31.86 | -25 |

Band7 QPSK BW=20MHz Channel=21350 RB Size=100 Position=#0




| Range | Start (MHz) | Stop (MHz) | RBW (kHz) | Spur Freq (MHz) | Spur Level (dBm) | Limit (dBm) |
|---|---|---|---|---|---|---|
| 1 | 0.009 | 0.15 | 1 | 0.009 | -43.47 | -25 |
| 2 | 0.15 | 30 | 10 | 0.15 | -43.44 | -25 |
| 3 | 30 | 1000 | 100 | 969.61475 | -46.38 | -25 |
| 4 | 1000 | 10000 | 1000 | 5905.225 | -32.72 | -25 |

Band7 16QAM BW=20MHz Channel=21350 RB Size=100 Position=#0




| Range | Start (MHz) | Stop (MHz) | RBW (kHz) | Spur Freq (MHz) | Spur Level (dBm) | Limit (dBm) |
|---|---|---|---|---|---|---|
| 1 | 0.009 | 0.15 | 1 | 0.00916215 | -41.81 | -25 |
| 2 | 0.15 | 30 | 10 | 0.1574625 | -43.91 | -25 |
| 3 | 30 | 1000 | 100 | 395.302 | -46.52 | -25 |
| 4 | 1000 | 10000 | 1000 | 5635 | -32.62 | -25 |