



Band2-1.4MHz-16QAM-18607-6-0-Low-5000-12000--36.94-PASS



Band2-1.4MHz-16QAM-18607-6-0-Low-12000-26500--25.02-PASS



Band2-1.4MHz-16QAM-18900-1-0-Low-30-1000--39.93-PASS



Band2-1.4MHz-16QAM-18900-1-0-Low-1000-5000--33.81-PASS



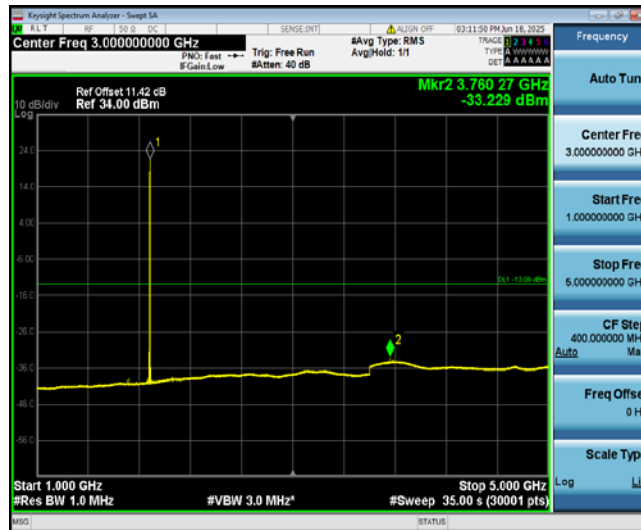
Band2-1.4MHz-16QAM-18900-1-0-Low-5000-12000--34.91-PASS



Band2-1.4MHz-16QAM-18900-1-0-Low-12000-26500--30.66-PASS



Band2-1.4MHz-16QAM-18900-6-0-Low-30-1000--39.95-PASS



Band2-1.4MHz-16QAM-18900-6-0-Low-1000-5000--33.23-PASS



Band2-1.4MHz-16QAM-18900-6-0-Low-5000-12000--34.95-PASS



Band2-1.4MHz-16QAM-18900-6-0-Low-12000-26500--30.64-PASS



Band2-1.4MHz-16QAM-19193-1-5-Low-30-1000--39.91-PASS



Band2-1.4MHz-16QAM-19193-1-5-Low-1000-5000--31.22-PASS



Band2-1.4MHz-16QAM-19193-1-5-Low-5000-12000--35.03-PASS



Band2-1.4MHz-16QAM-19193-1-5-Low-12000-26500--30.6-PASS



Band2-1.4MHz-16QAM-19193-6-0-Low-30-1000--39.1-PASS



Band2-1.4MHz-16QAM-19193-6-0-Low-1000-5000--33.17-PASS



Band2-1.4MHz-16QAM-19193-6-0-Low-5000-12000--34.95-PASS



Band2-1.4MHz-16QAM-19193-6-0-Low-12000-26500--30.69-PASS

## Appendix F: Frequency stability

Frequency Error VS. Voltage

| Test Band   | Test mode    | Test Channel | Test Temp. | Test Volt. | Freq. Error [Hz] | Freq. vs. rated [ppm] | Verdict |
|-------------|--------------|--------------|------------|------------|------------------|-----------------------|---------|
| CatM1 band2 | QPSK/ 20MHz  | LCH          | TN         | VL         | -0.35            | -0.0002               | PASS    |
|             |              |              |            | VN         | 2.19             | 0.0012                | PASS    |
|             |              |              |            | VH         | 1.48             | 0.0008                | PASS    |
|             |              | MCH          | TN         | VL         | 2.58             | 0.0014                | PASS    |
|             |              |              |            | VN         | 1.37             | 0.0007                | PASS    |
|             |              |              |            | VH         | 2.02             | 0.0011                | PASS    |
|             |              | HCH          | TN         | VL         | 1.82             | 0.0010                | PASS    |
|             |              |              |            | VN         | 2.21             | 0.0012                | PASS    |
|             |              |              |            | VH         | 2.27             | 0.0012                | PASS    |
|             | 16QAM/ 20MHz | LCH          | TN         | VL         | -0.38            | -0.0002               | PASS    |
|             |              |              |            | VN         | 0.91             | 0.0005                | PASS    |
|             |              |              |            | VH         | 0.78             | 0.0004                | PASS    |
|             |              | MCH          | TN         | VL         | 1.8              | 0.0010                | PASS    |
|             |              |              |            | VN         | 1.04             | 0.0006                | PASS    |
|             |              |              |            | VH         | 2.08             | 0.0011                | PASS    |
|             |              | HCH          | TN         | VL         | 0.83             | 0.0004                | PASS    |
|             |              |              |            | VN         | 1.86             | 0.0010                | PASS    |
|             |              |              |            | VH         | 2.14             | 0.0011                | PASS    |

# Frequency Error VS. Temperature

| Test Band   | Test mode   | Test Channel | Test Volt. | Test Temp. | Freq. Error [Hz] | Freq. vs. rated [ppm] | Verdict |
|-------------|-------------|--------------|------------|------------|------------------|-----------------------|---------|
| CatM1 band2 | QPSK/ 20MHz | LCH          | VN         | -30        | 1.54             | 0.0008                | PASS    |
|             |             |              |            | -20        | 1.55             | 0.0008                | PASS    |
|             |             |              |            | -10        | -0.3             | -0.0002               | PASS    |
|             |             |              |            | 0          | -1.73            | -0.0009               | PASS    |
|             |             |              |            | 10         | 0.89             | 0.0005                | PASS    |
|             |             |              |            | 20         | 0.95             | 0.0005                | PASS    |
|             |             |              |            | 30         | 1.07             | 0.0006                | PASS    |
|             |             |              |            | 40         | 0.8              | 0.0004                | PASS    |
|             |             |              |            | 50         | 1.09             | 0.0006                | PASS    |
|             |             | MCH          | VN         | -30        | 0.85             | 0.0005                | PASS    |
|             |             |              |            | -20        | 0.84             | 0.0004                | PASS    |
|             |             |              |            | -10        | -0.94            | -0.0005               | PASS    |
|             |             |              |            | 0          | 0.65             | 0.0003                | PASS    |
|             |             |              |            | 10         | -0.48            | -0.0003               | PASS    |
|             |             |              |            | 20         | 3.4              | 0.0018                | PASS    |
|             |             |              |            | 30         | 3.12             | 0.0017                | PASS    |
|             |             |              |            | 40         | 0.9              | 0.0005                | PASS    |
|             |             |              |            | 50         | 1.62             | 0.0009                | PASS    |
|             |             | HCH          | VN         | -30        | 0.58             | 0.0003                | PASS    |
|             |             |              |            | -20        | 0.46             | 0.0002                | PASS    |
|             |             |              |            | -10        | 0.29             | 0.0002                | PASS    |
|             |             |              |            | 0          | -0.84            | -0.0004               | PASS    |
|             |             |              |            | 10         | -0.69            | -0.0004               | PASS    |
|             |             |              |            | 20         | 0.37             | 0.0002                | PASS    |
|             |             |              |            | 30         | 0.61             | 0.0003                | PASS    |
|             |             |              |            | 40         | -0.45            | -0.0002               | PASS    |
|             |             |              |            | 50         | -2.47            | -0.0013               | PASS    |

| Test Band   | Test mode    | Test Channel | Test Volt. | Test Temp. | Freq. Error [Hz] | Freq. vs. rated [ppm] | Verdict |
|-------------|--------------|--------------|------------|------------|------------------|-----------------------|---------|
| CatM1 band2 | 16QAM/ 20MHz | LCH          | VN         | -30        | 0.79             | 0.0004                | PASS    |
|             |              |              |            | -20        | 0.8              | 0.0004                | PASS    |
|             |              |              |            | -10        | -1.05            | -0.0006               | PASS    |
|             |              |              |            | 0          | -1.58            | -0.0009               | PASS    |
|             |              |              |            | 10         | 0.65             | 0.0004                | PASS    |
|             |              |              |            | 20         | 0.24             | 0.0001                | PASS    |
|             |              |              |            | 30         | 1.37             | 0.0007                | PASS    |
|             |              |              |            | 40         | 1.16             | 0.0006                | PASS    |
|             |              |              |            | 50         | 1.2              | 0.0006                | PASS    |
|             |              | MCH          | VN         | -30        | -1.15            | -0.0006               | PASS    |
|             |              |              |            | -20        | -1.16            | -0.0006               | PASS    |
|             |              |              |            | -10        | -0.45            | -0.0002               | PASS    |
|             |              |              |            | 0          | -1.35            | -0.0007               | PASS    |
|             |              |              |            | 10         | -0.99            | -0.0005               | PASS    |
|             |              |              |            | 20         | 1.4              | 0.0007                | PASS    |
|             |              |              |            | 30         | 1.41             | 0.0008                | PASS    |
|             |              |              |            | 40         | -1.1             | -0.0006               | PASS    |
|             |              |              |            | 50         | -0.38            | -0.0002               | PASS    |
|             |              | HCH          | VN         | -30        | 1.05             | 0.0006                | PASS    |
|             |              |              |            | -20        | 1.12             | 0.0006                | PASS    |
|             |              |              |            | -10        | -0.2             | -0.0001               | PASS    |
|             |              |              |            | 0          | -1.13            | -0.0006               | PASS    |
|             |              |              |            | 10         | -1.18            | -0.0006               | PASS    |
|             |              |              |            | 20         | 1.33             | 0.0007                | PASS    |
|             |              |              |            | 30         | 0.78             | 0.0004                | PASS    |
|             |              |              |            | 40         | -0.94            | -0.0005               | PASS    |
|             |              |              |            | 50         | -1.49            | -0.0008               | PASS    |

- End of the Appendix -