Communication Quality Analysis Report

LTE & Starlink Network Performance

Report Generated: 2026-01-29 14:02

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                    Flight Summary
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             Total Data Points: 2,620
           Flight Duration: 399 seconds

              LTE Coverage: 100.0%
            Starlink Coverage: 53.9%
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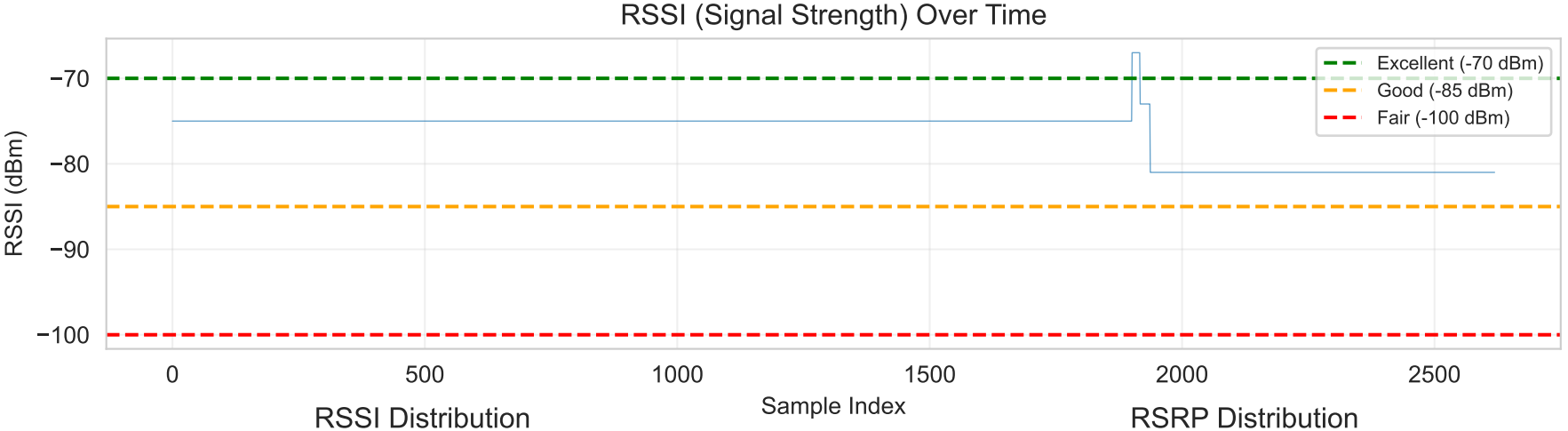
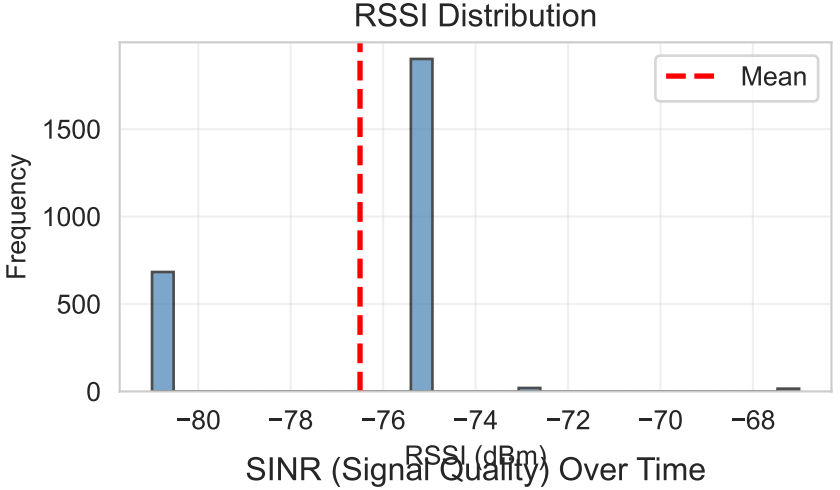
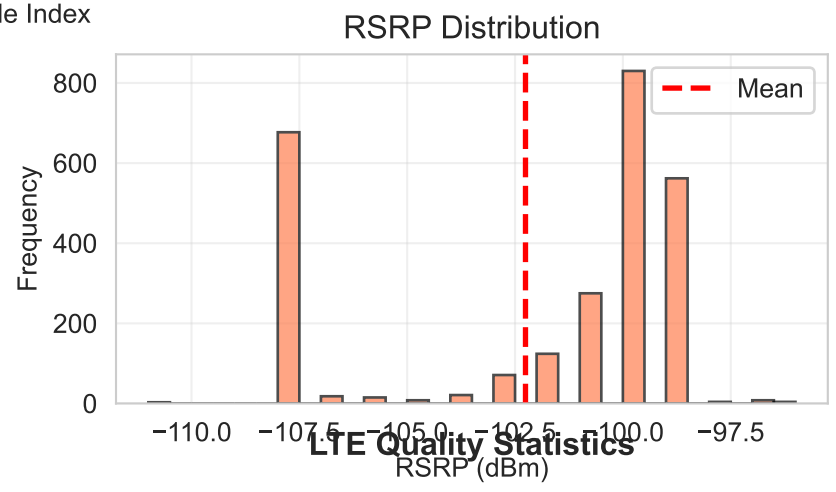
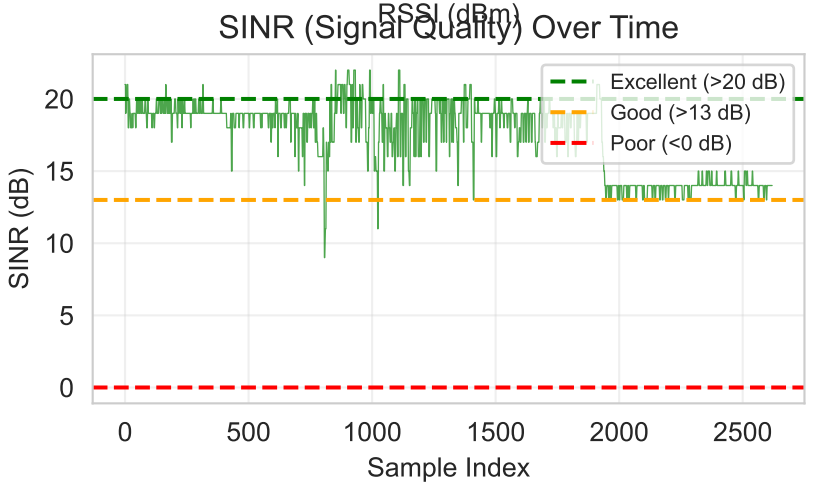
LTE Communication Quality Analysis





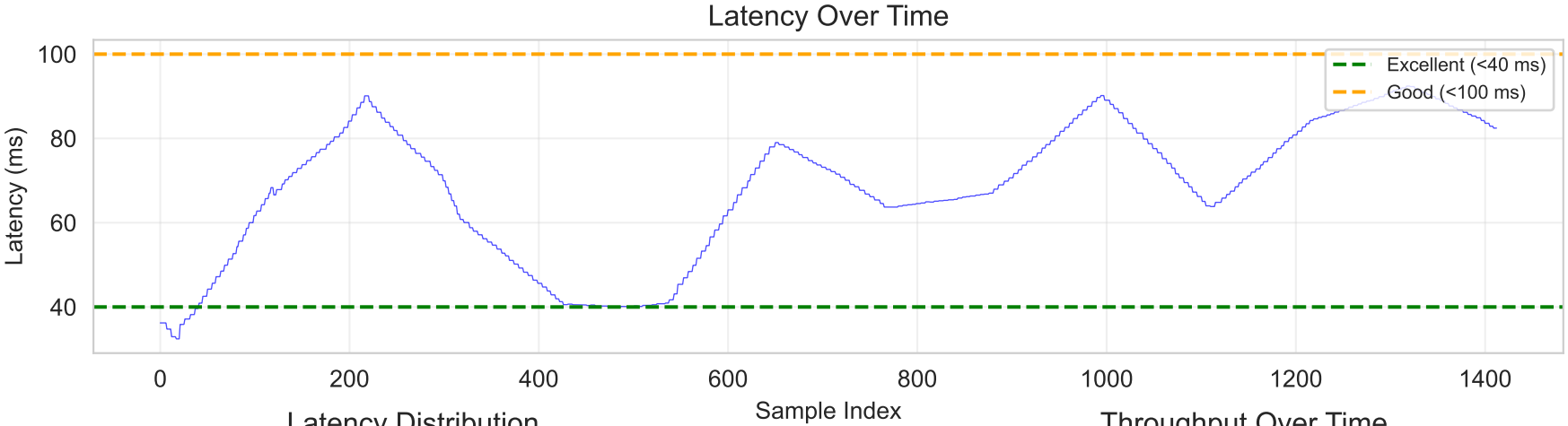


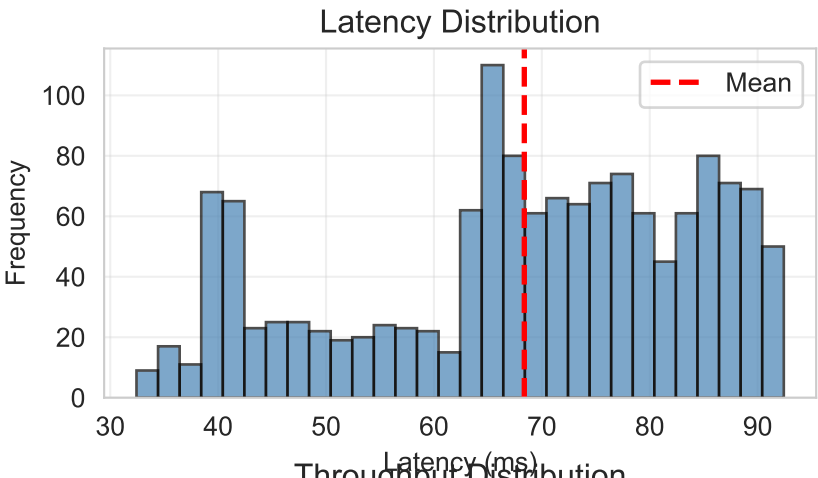


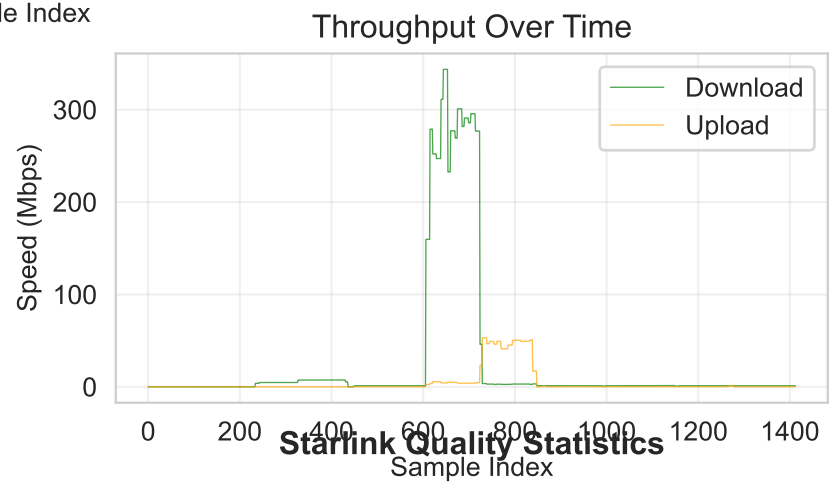
LTE Quality Statistics

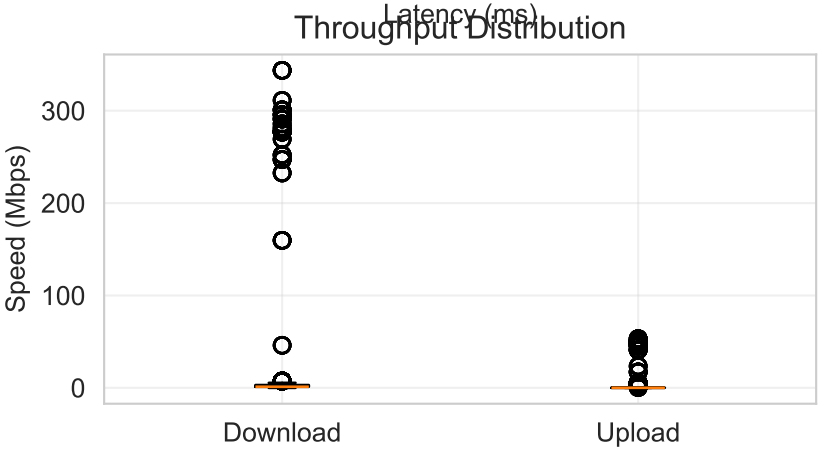
Metric	Mean	Min	Max	Std
RSSI (dBm)	-76.5	-81	-67	2.7
RSRP (dBm)	-102.3	-111	-96	3.6
SINR (dB)	17.4	9	22	2.5

Starlink Communication Quality Analysis





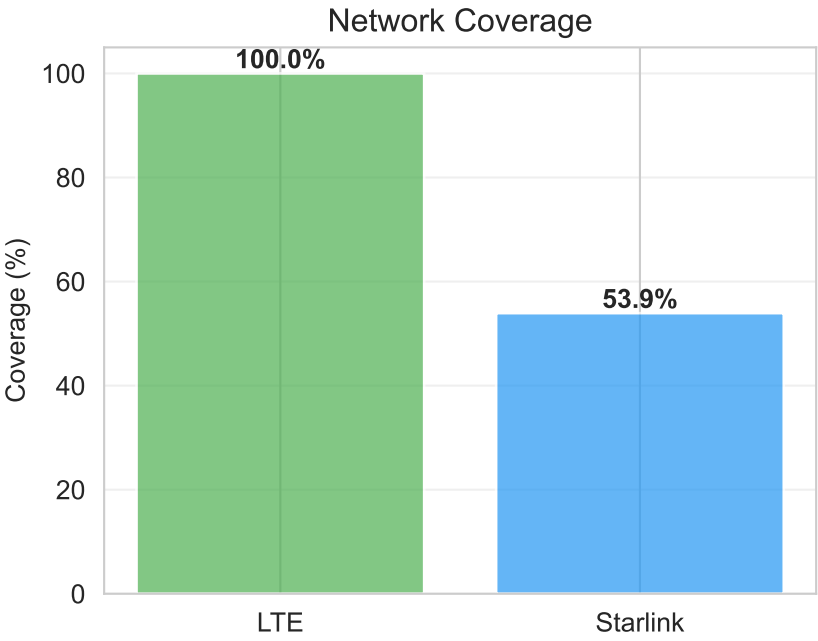


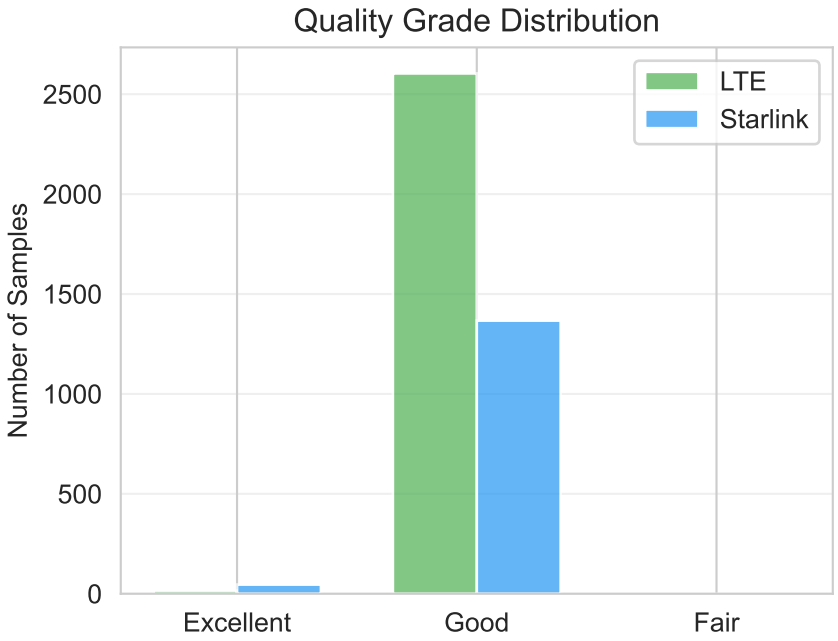


Starlink Quality Statistics

Metric	Mean	Min	Max	Std
Latency (ms)	68.4	32.4	92.4	15.9
Download (Mbp	24.7	0.0	343.7	76.2
Upload (Mbps	4.4	0.0	53.2	12.9

LTE vs Starlink Comparison



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ANALYSIS SUMMARY & RECOMMENDATIONS
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Network Performance:
• LTE Coverage: 100.0% | Overall Quality: Good
• Starlink Coverage: 53.9% | Overall Quality: Good

Key Findings:
• LTE Average RSSI: -76.5 dBm
• LTE Average SINR: 17.4 dB
• Starlink Average Latency: 68.4 ms
• Starlink Average Download: 24.7 Mbps

Recommendations:
1. LTE provides excellent coverage throughout the flight
2. Starlink shows reliable performance
   in this flight area
3. For mission-critical applications, dual network redundancy is available

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