

# Audio/Voice Quality MOS Solution

SmartViser is offering an innovative solution based on the industry standard POLQA for Voice Experience Evaluation.

## Key Highlights:

- Supports any device Android or iOS
- Works on any chipset
- Can be used on non-rooted devices for true end user experience evaluation
- Full End to End Evaluation MO (Uplink) and MT (Downlink)
- Fully standalone and light solution Static or Mobility Testing
- MOS Score based on POLQA V3 Algorithm
- Supports Cellular calls assessment 2G, 3G, VoLTE, VoWiFi, 5G NR
- Supports any OTT calls, WhatsApp, Viber, Microsoft Teams, Google Meet, Facebook Messenger, Skype



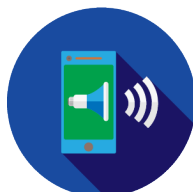
# Use cases

SmartViser's Audio MOS solution supports a variety of use cases and market segments. It allows launch readiness assessment's, comparative analysis and ranking, pre- testing of new technology, services and devices



## Regulators

Assessing and benchmarking performance, different networks, devices and technology.



## Smartphone Manufacturers

As part of voice service evaluation, pre-launch assessment and ongoing monitoring throughput software and OS upgrades.



## Mobile Network Operators

Device acceptance teams to ensure any device in the networks offers the best end user experience in terms of speech quality.



## Mission Critical

For PTT (Push to talk) assessments based on ETSI standards assessing Voice performance MOS scores using POLQA algorithm.



## Chipset Vendors

Tests teams to ensure thorough testing and voice quality MOS score in different cellular technologies, prior to technology release.



## MNOs Network

Launch readiness assessment for new voice services like Voice NR and new voice codecs. Benchmark user experience between legacy and new services



## Labs

Perform testing campaigns using the latest technologies including benchmarking on different devices or different mobile network operators.

# KPIs and System Overview

Some of the KPIs supported are:

- MOS score POLQA
- Number of packet loss
- Jitter
- Latency
- Audio bandwidth
- Mouth-to-Ear delay
- Intermittent score every 8 seconds

Fully Automated Speech/Audio MOS Evaluation for the entire process from test set up and execution to test results analysis and reporting.

SmartViser Audio MOS solutions allows voice/speech quality and call performance at the same time while collecting other key network metrics.

Reliable and fully scalable testing set up.

**viSer** (=Virtual User), a device-agnostic mobile application, is a proven test automation solution to improve quality and increase productivity while reducing costs.

**SmartAudio Box (SAB)**  
Simplifies the audio MOS set up, injects the POLQA reference audio sample, plays and records

**Viser Web Services (VWS)** Studio analytics aggregate and reports the results

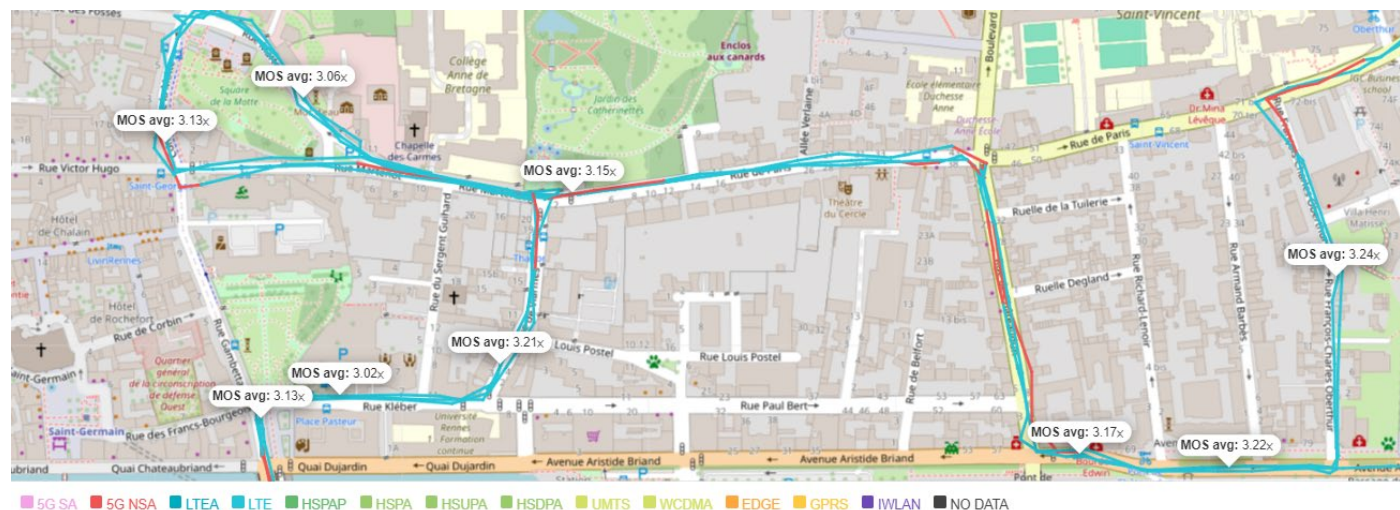


# Sample Reports VWS

Viser Web Services Studio Analytics is a powerful intelligent dashboard.

Report Name	Processed Files	Max MOS	Min MOS	Average MOS
Mobility MOS	42/42	4.27	2.9	3.58

## Sample summary Table Report



## MOS Scores plotted on the Map View

