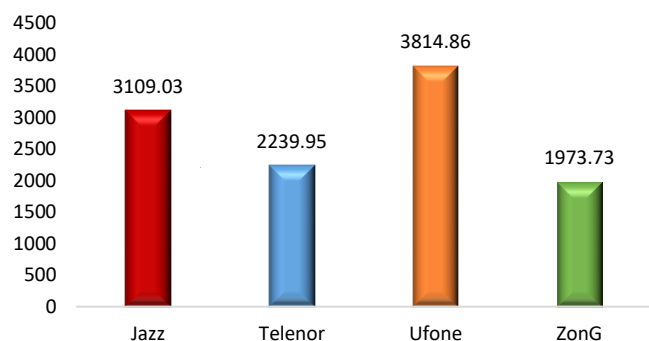


| VOICE CALLS – COMPLIANCE (YES/NO) | | | | | | | | |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|----------------|----------------|--------------------|----------------------|------------------|--------------------|--------------------|
| Operator | *Voice KPIs | Quetta to Zhob | Zhob to Quetta | Lahore to Sargodha | Lahore to Rawalpindi | Lahore to Multan | Islamabad to Kohat | Mianwali to Bakhar |
| Jazz | NA | No | No | Yes | Yes | Yes | Yes | No |
| | SA | No | No | No | No | Yes | No | No |
| | CCT | No | No | Yes | Yes | Yes | Yes | No |
| | CCR | No | No | Yes | Yes | Yes | No | No |
| | MOS | No | No | Yes | Yes | Yes | Yes | Yes |
| | ISHO | N/a | N/a | Yes | Yes | Yes | Yes | Yes |
| | RSSR | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Telenor | NA | No | Yes | No | Yes | Yes | Yes | Yes |
| | SA | No | No | No | No | No | No | No |
| | CCT | Yes | Yes | Yes | No | Yes | Yes | Yes |
| | CCR | No | No | No | No | No | No | No |
| | MOS | Yes | Yes | Yes | No | Yes | Yes | No |
| | ISHO | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| | RSSR | Yes | N/a | Yes | Yes | N/a | N/a | N/a |
| Ufone | NA | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| | SA | Yes | No | Yes | Yes | Yes | No | No |
| | CCT | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| | CCR | No | No | No | Yes | Yes | No | No |
| | MOS | Yes | Yes | Yes | Yes | Yes | No | No |
| | ISHO | No | Yes | Yes | Yes | No | Yes | Yes |
| | RSSR | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| ZonG | NA | No | No | Yes | Yes | Yes | Yes | Yes |
| | SA | No | No | No | Yes | No | No | No |
| | CCT | No | No | Yes | Yes | Yes | Yes | Yes |
| | CCR | No | No | Yes | No | Yes | No | Yes |
| | MOS | No | No | Yes | Yes | Yes | Yes | Yes |
| | RSSR | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| * Note Voice QoS KPIs: Network Accessibility (NA) > 99%, Service Accessibility (SA)> 98%, Call Connection Time (CCT) ≤ 7.5 Seconds, Call Completion Ratio (CCR) ≥ 98%, Mean Opinion Score (MOS) > 3, Inter System Hand Over (ISHO) > 98% & RAB Setup Success Rate (RSSR) > 98% | | | | | | | | |

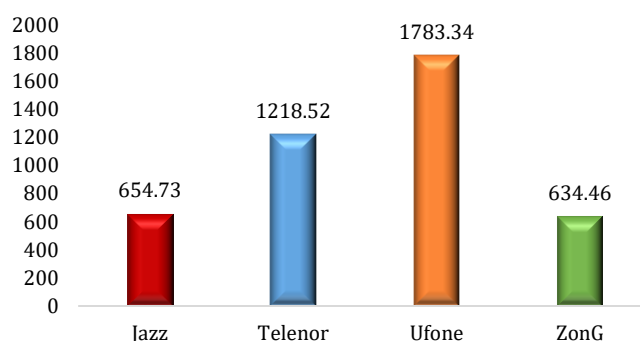
Table 5.1: Voice QoS KPIs Compliance Level

QUALITY OF SERVICE SURVEY RESULTS (3G) – LAHORE TO SARGODHA (N-60)

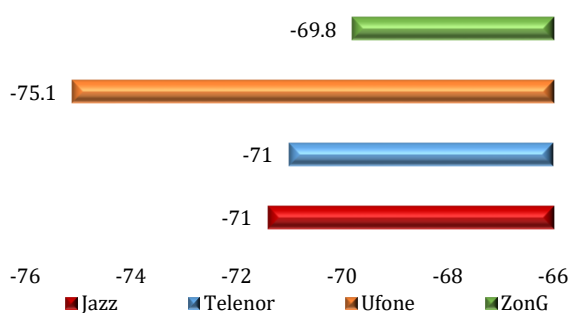
User Data Throughput Download (3G) > 512 Kbps



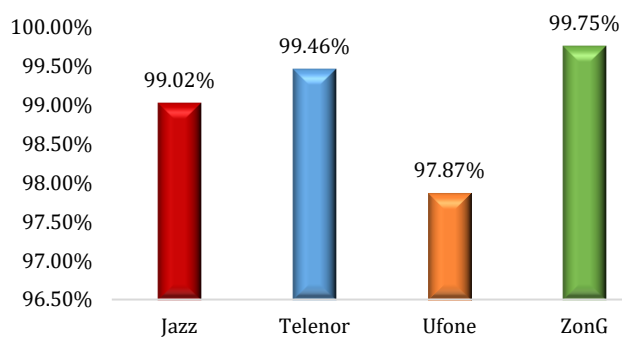
User Data Throughput Upload (3G) > 128 Kbps



Signal Strength (RSCP) > -100dBm



Signal Strength (RSCP) Confidencel Level > 90%



Latency (3G) < 150 ms

