

3.	Ufone	9	Lahore to Kasur, Multan to Rahim Yar Khan, Peshawar to Kohat, Peshawar to Swabi, Peshawar to Haripur, Peshawar to Abbottabad, Quetta to Sibbi, Quetta to Noshki & Quetta to Khuzdar
4.	ZonG	6	Peshawar to Kohat, Peshawar to Swabi, Peshawar to Abbottabad, Quetta to Sibbi, Quetta to Noshki & Quetta to Khuzdar

**Table 6.2: Non-Compliance of SMS Success Rate > 99%**

- b. **SMS END-TO-END DELIVERY TIME.** The analysis of QoS KPI **SMS End-to-End Delivery time of 12 Seconds** in all 12 x surveyed Motorways / Highways / Inter Cities Roads, revealed following:

- i. **COMPLIANCE.** The Motorways / Highways / Inter Cities Roads where CMOs remained compliant are mentioned in **Table 6.3: Compliance of SMS End-To-End Delivery Time  $\leq$  12 Seconds.**

S. #.	Operator	Motorways / Highways / Inter Cities Roads	
		Count	Names
1.	Jazz	12	Lahore to Gujranwala, Lahore to Kasur, Lahore to Faisalabad, Multan to Rahim Yar Khan, Peshawar to Kohat, Peshawar to Swabi, Peshawar to Haripur, Peshawar to Abbottabad, Quetta to Pishin, Quetta to Sibbi, Quetta to Noshki, Quetta to Khuzdar
2.	Telenor	10	Lahore to Gujranwala, Lahore to Kasur, Lahore to Faisalabad, Multan to Rahim Yar Khan, Peshawar to Kohat, Peshawar to Swabi, Peshawar to Haripur, Quetta to Pishin, Quetta to Noshki & Quetta to Khuzdar
3.	Ufone	7	Lahore to Gujranwala, Lahore to Kasur, Lahore to Faisalabad, Peshawar to Swabi, Peshawar to Haripur, Quetta to Pishin & Quetta to Sibbi
4.	ZonG	12	Lahore to Gujranwala, Lahore to Kasur, Lahore to Faisalabad, Multan to Rahim Yar Khan, Peshawar to Kohat, Peshawar to Swabi, Peshawar to Haripur, Peshawar to Abbottabad, Quetta to Pishin, Quetta to Sibbi, Quetta to Noshki, Quetta to Khuzdar

**Table 6.3: Compliance of SMS End-To-End Delivery Time  $\leq$  12 Seconds**

- ii. **NON-COMPLIANCE.** The Motorways / Highways / Inter Cities Roads where CMOs remained non-compliant are mentioned in **Table 6.4: Non-Compliance of SMS End-To-End Delivery Time  $\leq$  12 Seconds.**

S. #.	Operator	Motorways / Highways / Inter Motorways / Highways / Inter Cities Roads	
		Count	Names
1.	Telenor	2	Peshawar to Abbottabad & Quetta to Sibbi
2.	Ufone	5	Multan to Rahim Yar Khan, Peshawar to Kohat, Peshawar to Abbottabad, Quetta to Noshki & Quetta to Khuzdar

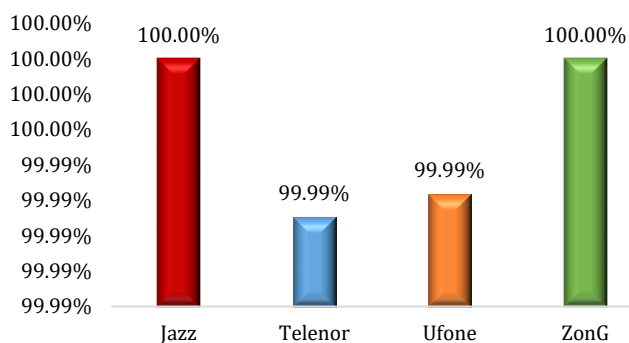
**Table 6.4: Non-Compliance of SMS End-To-End Delivery Time  $\leq$  12 Seconds**

## **SURVEY MAPS & GRAPHICAL RESULTS**

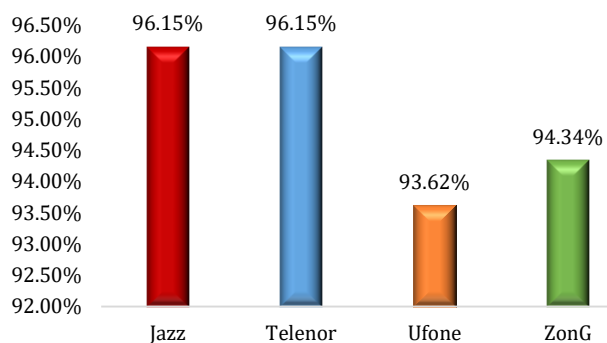
7.1 The 4G/LTE (RSRP) and 3G (RSCP) Signal Strength (i.e. wherever available) samples, recorded during drive test on survey routes, plotted on maps along-with Voice & SMS QoS KPIs survey results in graphical form, are placed at **Annex-A, Annex-B & Annex-C**, on Motorways / Highways and Inter-Motorways / Highways / Inter Cities Roads of Punjab, Sindh & Khyber Pakhtunkhwa respectively.

## QUALITY OF SERVICE SURVEY RESULTS – PESHAWAR TO HARIPUR

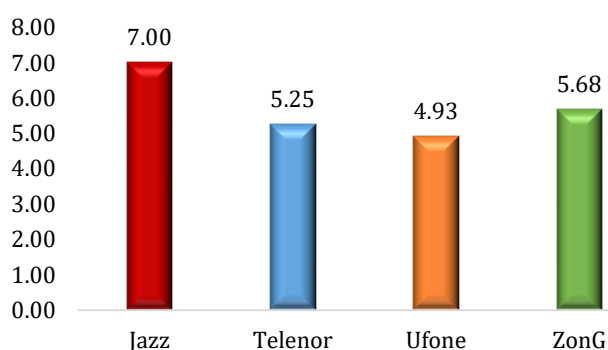
**Network Accessibility > 99%**



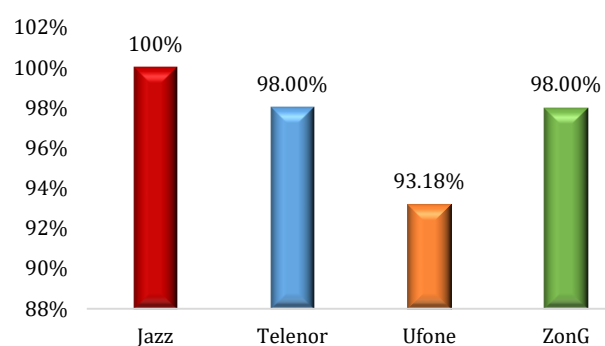
**Service Accessibility > 98%**



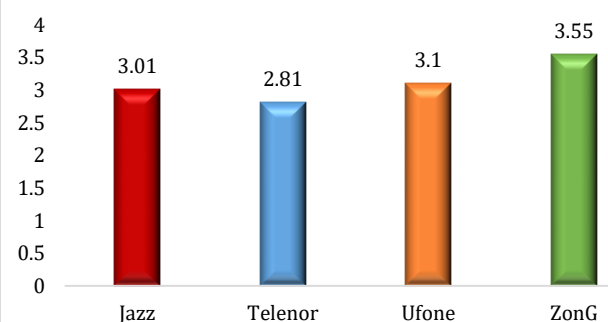
**Call Connection Time < 6.5 Seconds**



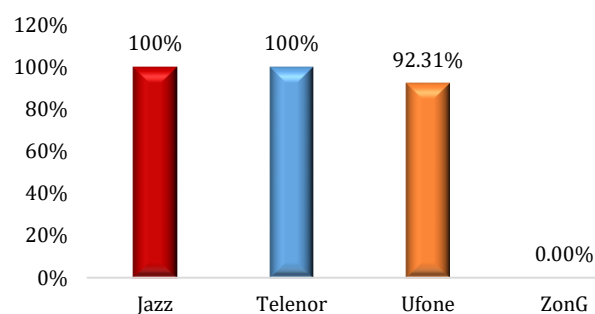
**Call Completion Ratio > 98%**



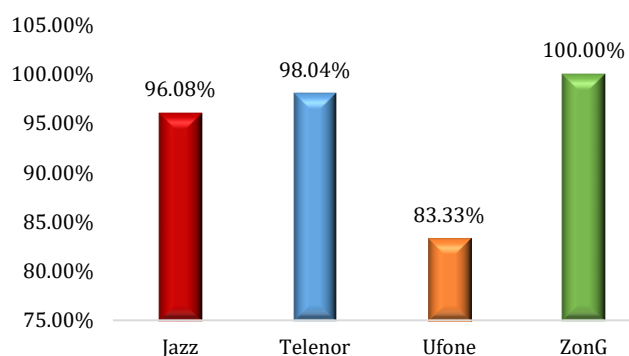
**Mean Opinion Score > 3**



**ISHO for Circuit Switched Voice > 98%**



**SMS Success Rate > 99%**



**SMS End-to-End Delivery Time < 12 Seconds**

