QUETTA	30.12	46.1	47.17	27.12	Yes	Yes	Yes	Yes
RAWALPINDI	21	42.5	23.7	16.5	Yes	Yes	Yes	Yes
CHUNIAN	38.56	46.26	36.96	16.78	Yes	Yes	Yes	Yes
SHARAQPUR	29.19	22.51	35.58	15.68	Yes	Yes	Yes	Yes
KOTRI	24.99	26.83	38.25	23.3	Yes	Yes	Yes	Yes

Table 7.3: Ookla Latency

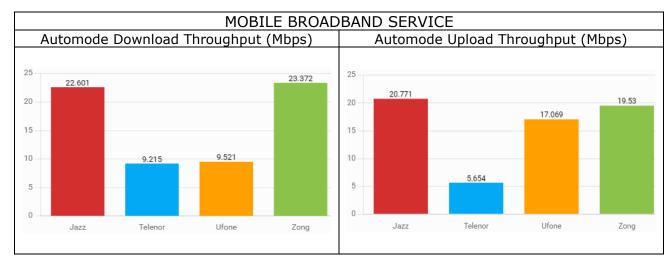
8. <u>MOBILE BROADBAND SERVICE - WEB PAGE LOADING</u>

Web Page Loading Time of different national and international websites were tested. Results of testing are shown in $\underline{\text{Table 8.1: Web Page}}$ $\underline{\text{Loading Time}}$.

WEBPAGE LOADING TIME IN IN TECHNOLOGY AUTO DETECT MODE								
City	Webpage Loading Time [seconds]				Compliant (Yes/No)			
	Jazz	Telenor	Ufone	ZonG	Jazz	Telenor	Ufone	ZonG
BAHWALNAGAR	0.12	0.88	0.89	0.14	Yes	Yes	Yes	Yes
D.I KHAN	2.20	6.60	2.80	1.9	Yes	No	Yes	Yes
LAHORE	3.26	1.68	1.62	1.24	Yes	Yes	Yes	Yes
MARDAN	2.9	5.2	2.6	1.9	Yes	No	Yes	Yes
SAMUNDARI	0.68	0.31	0.34	0.14	Yes	Yes	Yes	Yes
SHIKARPUR	3.9	2.70	2.90	1.9	Yes	Yes	Yes	Yes
HYDERABAD	4.9	6.7	6.5	4.9	Yes	No	No	Yes
JHELUM	1.9	2.5	2.3	2.1	Yes	Yes	Yes	Yes
KARACHI MALIR	4.4	7.2	6.2	4.7	Yes	No	No	Yes
NAWABSHAH	4.6	2.5	3.1	1.7	Yes	Yes	Yes	Yes
NUSHKI	N/A	6.6	7.6	5.3	N/A	No	No	No
QUETTA	5	7.5	6.5	5.4	No	No	No	No
RAWALPINDI	2.3	2.7	2.3	2.1	Yes	Yes	Yes	Yes
CHUNIAN	6.6	7.1	7.1	6.5	No	No	No	No
SHARAQPUR	5.3	6.4	6.9	5.9	No	No	No	No
KOTRI	4.5	6.9	6.6	5.1	Yes	No	No	No

Table 8.1: Web Page Loading Time

Overall survey results of Mobile Broadband Services for each Mobile Operator are shown in the below graphs.



10. SMS SERVICE

A total of 20,433 SMS sending attempts were conducted, out of which 20,372 SMS were successfully transmitted by A-Party while 20,203 SMS were successfully received at B-Party. The 2 x SMS QoS KPIs (i.e. Success Rate and Delivery Time) have been measured while testing SMS services in the surveyed cities. Company wise SMS statistics are shown in Table 10.1: SMS Statistics, while the compliance in each surveyed city is shown in Table 10.2: SMS QoS KPIs Compliance Level.

Description	Jazz	Telenor	Ufone	Zong
SMS Send Request	5109	5021	4720	4702
SMS Successfully Transmitted	5092	4986	4706	4697
SMS Successfully Received	5062	4836	4679	4661
SMS Receive Success Rate (%)	99.08	96.32	99.13	99.13
End-To-End Delivery Time (Sec)	3.54	4.09	2.51	2.58

Table 10.1: SMS Statistics

Operator		Jazz		Telenor		Ufone		ZonG	
SMS KPI		SR	DT	SR	DT	SR	DT	SR	DT
	BAHWALNAGAR	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	D.I KHAN	Yes	Yes	No	Yes	Yes	Yes	No	Yes
	LAHORE	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes
	MARDAN	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes
S	SAMUNDARI	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes
itie	SHIKARPUR	Yes	Yes	No	Yes	No	Yes	No	Yes
ij	HYDERABAD	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes
g	JHELUM	No	Yes	No	Yes	Yes	Yes	Yes	Yes
urveyed	KARACHI MALIR	No	Yes	No	Yes	No	Yes	Yes	Yes
Ş	NAWABSHAH	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
בָּ	NUSHKI	No	Yes	No	Yes	Yes	Yes	Yes	Yes
S	QUETTA	Yes	Yes	No	Yes	No	Yes	No	Yes
	RAWALPINDI	Yes	Yes	No	Yes	Yes	Yes	No	Yes
	CHUNIAN	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	SHARAQPUR	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	KOTRI	No	Yes	No	Yes	Yes	Yes	Yes	Yes
* Note SMS QoS KPIs: Success Rate (SR), Delivery Time (DT)									

Table 10.2: SMS QoS KPIs Compliance Level

Overall survey results of SMS Services for each Mobile Operator are shown in the below graphs.