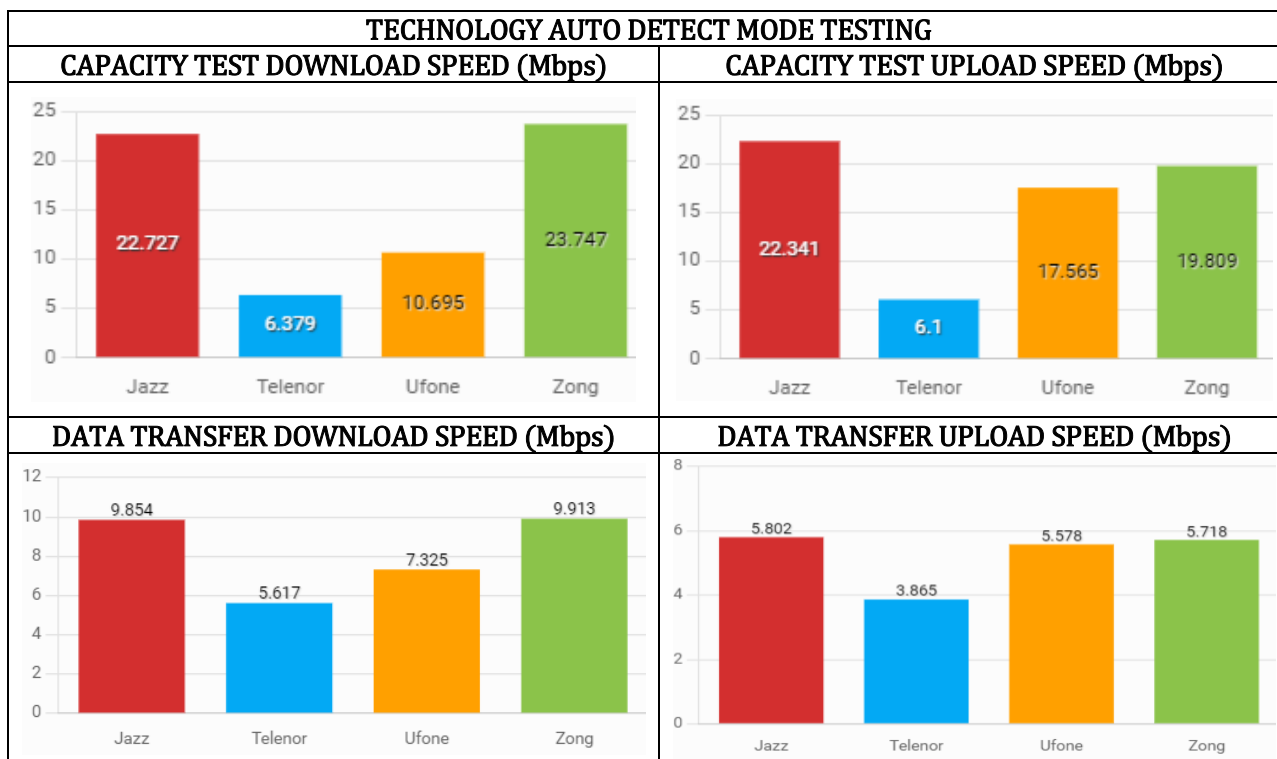


OOKLA LATENCY IN TECHNOLOGY AUTO DETECT MODE								
City	Latency [milliseconds]				Compliant (Yes/No)			
	Jazz	Telenor	Ufone	ZonG	Jazz	Telenor	Ufone	ZonG
UPPER DIR	42	55	74	90	Yes	Yes	Yes	No
LARKANA	26	51	34	32	Yes	Yes	Yes	Yes
LAHORE	33	20	36	18	Yes	Yes	Yes	Yes
KHAIRPUR	25	57	33	30	Yes	Yes	Yes	Yes
SHAHKOT	20	25	39	33	Yes	Yes	Yes	Yes
GUJAR KHAN	20	44	23	71	Yes	Yes	Yes	Yes
WAH/ TAXILA	21	33	22	32	Yes	Yes	Yes	Yes
RAWALPINDI	21	30	27	46	Yes	Yes	Yes	Yes
BUNER	67	43	41	81	Yes	Yes	Yes	No
JACOBABAD	35	39	41	34	Yes	Yes	Yes	Yes
SUJAWAL	24	26	25	24	Yes	Yes	Yes	Yes
MITHI	26	36	29	34	Yes	Yes	Yes	Yes
ABBOTTABAD	37	74	54	84	Yes	Yes	Yes	No
SWABI	32	56	48	39	Yes	Yes	Yes	Yes
MURIDKE	21	56	40	19	Yes	Yes	Yes	Yes

Table 4.11: Ookla Latency in Technology Auto Detect Mode < 75 Milliseconds

4.6. Overall results of Download and Upload Throughputs in Capacity Tests, Data Transfer Tests, Latency (overall) and Latency (Per Web Page), can be seen in attached graphs.



SMS SERVICE

6.1. A total of **20878 SMS sending attempts** were conducted, out of which **20751 SMS** were **successfully transmitted** by A-Party while **20609 SMS** were **successfully received** at B-Party. The company wise SMS Statistics are shown in **Table 6.1: SMS Statistics** while City wise compliance is shown in **Table 6.2: SMS QoS KPIs Compliance Level**

DESCRIPTION	JAZZ	TELENOR	UFONE	ZONG
SMS SEND REQUEST	5276	5234	5186	5182
SMS SUCCESSFULLY TRANSMITTED	5265	5215	5171	5100
SMS SUCCESSFULLY RECEIVED	5239	5168	5141	5061
SMS RECEIVE SUCCESS RATE (%)	99.3 %	98.74 %	99.13 %	97.66 %
END-TO-END DELIVERY TIME (Sec)	3.17	3.43	2.57	2.63

Table 6.1: SMS Statistics

Operator		Jazz		Telenor		Ufone		ZonG	
SMS KPI		Success Rate	Delivery Time	Success Rate	Delivery Time	Success Rate	Delivery Time	Success Rate	Delivery Time
Surveyed Cities	UPPER DIR	No	Yes	No	Yes	No	Yes	No	Yes
	LARKANA	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	LAHORE	Yes	Yes	No	Yes	Yes	Yes	No	Yes
	KHAIRPUR	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes
	KAHROR PACCA	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes
	SHAHKOT	No	Yes	No	Yes	Yes	Yes	No	Yes
	GUJAR KHAN	No	Yes	No	Yes	Yes	Yes	Yes	Yes
	WAH/ TAXILA	Yes	Yes	No	Yes	Yes	Yes	No	Yes
	RAWALPINDI	Yes	Yes	No	Yes	Yes	Yes	No	Yes
	BUNER	No	Yes	No	Yes	Yes	Yes	Yes	Yes
	JACOBABAD	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	SUJAWAL	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes
	MITHI	Yes	Yes	Yes	Yes	No	Yes	No	Yes
	ABBOTTABAD	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes
	SHUJABAD	No	Yes	No	Yes	No	Yes	Yes	Yes
	SWABI	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	MURIDKE	Yes	Yes	No	Yes	Yes	Yes	No	Yes

Table 6.2: SMS QoS KPIs Compliance Level

6.2. The SMS Send Request & Successful Reception by Technology, Average Success Rate & End to End Delivery Time and Delivery Duration by Technology are shown in the graphs.

