DOWNLOAD USER DATA THROUGHPUT IN 4G/LTE TECHNOLOGY LOCKED MODE (FIXED DURATION)								
City	Download User Data Throughput [Mbps]				Operator Position			
	Jazz	Telenor	Ufone	ZonG	Jazz	Telenor	Ufone	ZonG
SUKKUR	22.34	11.11	13.54	16.92	First	Fourth	Third	Second
BAHAWALPUR	25.01	8.29	12.44	24.73	First	Fourth	Third	Second
CHARSADDA	19.85	3.46	3.71	19.54	First	Fourth	Third	Second
GWADAR	15.69	**1.67**	**2.10**	19.54	Second	**Fourth**	**Third**	First
QUETTA	20.38	4.90	3.77	12.74	First	Third	Fourth	Second
ISLAMABAD	24.69	**2.50**	6.43	20.14	First	**Fourth**	Third	Second
KOT RADHA KISHAN	10.80	4.06	7.59	29.09	Second	Fourth	Third	First
SHEIKHUPURA	16.95	4.41	7.68	19.57	Second	Fourth	Third	First
HANGU	15.38	4.16	**2.73**	15.55	Second	Third	**Fourth**	First
KUCHLAK	16.83	7.23	5.97	11.54	First	Third	Fourth	Second
ABBOTTABAD	19.52	**2.49**	5.53	15.33	First	**Fourth**	Third	Second
LOWER DIR	9.09	**1.59**	11.41	17.94	Third	**Fourth**	Second	First
MANSEHRA	20.74	**1.73**	4.90	11.01	First	**Fourth**	Third	Second
MATIARI	19.10	**0.88**	19.20	25.95	Third	**Fourth**	Second	First
MACH	41.10	4.49	**1.71**	14.86	First	Third	**Fourth**	Second
PASROOR	12.48	**0.73**	3.06	14.87	Second	**Fourth**	Third	First
PISHIN	22.04	7.99	3.22	12.71	First	Third	Fourth	Second
SARGODHA	26.76	5.83	9.62	15.91	First	Fourth	Third	Second
UMERKOT	37.14	**2.33**	12.45	19.51	First	**Fourth**	Third	Second

Table 4.4: Download User Data Throughput 4G/LTE Technology Locked Mode [Fixed Duration] $\geq$ 3Mbps

DOWNLOAD USER DATA THROUGHPUT IN 3G TECHNOLOGY LOCKED MODE (FIXED DURATION)								
City	Download User Data Throughput [Kbps]				Operator Position			
	Jazz	Telenor	Ufone	ZonG	Jazz	Telenor	Ufone	ZonG
SUKKUR	2339.96	4633.5	4224.01	1655.74	Third	First	Second	Fourth
BAHAWALPUR	972.39	2926.68	3995.99	3460.14	Fourth	Third	First	Second
CHARSADDA	2536.21	1780.6	2440.74	1351.41	First	Third	Second	Fourth
GWADAR	2269.68	2126.73	3126.87	3127.66	Third	Fourth	Second	First
QUETTA	2082.55	1291.98	2383.95	1456.16	Second	Fourth	First	Third
ISLAMABAD	2453.45	2329.68	3263.65	2098.13	Second	Third	First	Fourth
KOT RADHA KISHAN	3786.1	2622.45	3738.78	4236.46	Second	Fourth	Third	First
SHEIKHUPURA	1959.49	2867.51	3327.15	2906.27	Fourth	Third	First	Second
HANGU	3072.82	2193.34	2132.12	4069	Second	Third	Fourth	First
KUCHLAK	1729.95	1356.62	4180.4	1643.09	Second	Fourth	First	Third
ABBOTTABAD	1852.56	1584.23	2529.04	1667.47	Second	Fourth	First	Third
LOWER DIR	1818.19	1201.95	3027.02	2541.63	Third	Fourth	First	Second
MANSEHRA	1887.62	1250.17	2287.58	2064.28	Third	Fourth	First	Second
MATIARI	2392.82	3163.66	2395.15	2312.9	Third	First	Second	Fourth
MACH	N/A	2952.48	3020.48	4809.64	N/A	Third	Second	First
PASROOR	1316.7	528	2258.24	3651.64	Third	Fourth	Second	First
PISHIN	4255.19	3763.15	2187.15	1181.63	First	Second	Third	Fourth
SARGODHA	1479.7	2431.56	3999.65	2782.72	Fourth	Third	First	Second
UMERKOT	N/A	1183.83	2856.57	3314.59	N/A	Third	Second	First

Table 4.5: Download User Data Throughput IN 3G Technology Locked Mode [Fixed Duration] $\geq$ 512Kbps

4.3. UPLOAD USER DATA THROUGHPUT. As per Cellular Mobile Network Quality of Service (QoS) Regulations 2021, licensees are required to meet the threshold of minimum of 786Kbps of 4G/LTE & 128Kbps of 3G of Upload User Data Throughput. The results of Data Service QoS KPI i.e. Upload User Data Throughput is shown in (i). **Table 4.6: Upload User Data Throughput Technology Auto Detect Mode [Fixed Duration] $\geq$ 768Kbps,** (ii). **Table 4.7: Upload User Data Throughput Technology Auto Detect Mode**

[Fixed Size] $\geq$ 768Kbps, (iii). Table 4.8: Upload User Data Throughput in 4G/LTE Technology Locked Mode [Fixed Duration] $\geq$ 768Kbps & (iv). Table 4.9: Upload User Data Throughput in 3G Technology Locked Mode [Fixed Duration] $\geq$ 128Kbps.

City	Upload User Data Throughput [Kbps]				Operator Position			
	Jazz	Telenor	Ufone	ZonG	Jazz	Telenor	Ufone	ZonG
SUKKUR	25312.02	7941.84	23715.76	25224.52	First	Fourth	Third	Second
BAHAWALPUR	21164.24	7790.95	17922.41	22462.04	Second	Fourth	Third	First
CHARSADDA	6783.78	3374.1	5641.91	6261.69	First	Fourth	Third	Second
GWADAR	20414.2	4749.16	15560.03	18516.45	First	Fourth	Third	Second
QUETTA	25768.98	3658.02	16502.62	15394.8	First	Fourth	Second	Third
ISLAMABAD	22746.34	7086.78	18316.56	15278.37	First	Fourth	Second	Third
KOT RADHA KISHAN	26860.64	6350.13	20292.56	16711.84	First	Fourth	Second	Third
SHEIKHUPURA	27045.06	8559.03	15958.22	24309.09	First	Fourth	Third	Second
HANGU	4504.68	2599.49	4449.68	3597.49	First	Fourth	Second	Third
KUCHLAK	24248.42	4650.12	18747.64	16607.53	First	Fourth	Second	Third
ABBOTTABAD	25565.83	6503.83	16850.2	19422.11	First	Fourth	Third	Second
LOWER DIR	16555.49	3401.19	20922.26	17466.45	Third	Fourth	First	Second
MANSEHRA	26442.7	3955.71	18518.48	19710.08	First	Fourth	Third	Second
MATIARI	24214.47	4528.11	23439.44	29915.92	Second	Fourth	Third	First
MACH	23566.95	2641.85	15786.57	18156.3	First	Fourth	Third	Second
PASROOR	24020.87	2899.79	15961.16	27273.31	Second	Fourth	Third	First
PISHIN	25499.71	3310.56	18281.87	15961.38	First	Fourth	Second	Third
SARGODHA	20392.98	7822.01	19736.37	21298.93	Second	Fourth	Third	First
UMERKOT	20795.27	5614.9	22339.42	26116.67	Third	Fourth	Second	First

Table 4.6: Upload User Data Throughput Technology Auto Detect Mode [Fixed Duration] $\geq$ 768Kbps

City	Upload User Data Throughput [Kbps]				Operator Position			
	Jazz	Telenor	Ufone	ZonG	Jazz	Telenor	Ufone	ZonG
SUKKUR	8167.58	6084.85	8477.68	8142.93	Second	Fourth	First	Third
BAHAWALPUR	13861.97	10807.85	14546.27	12001.2	Second	Fourth	First	Third
CHARSADDA	5713.53	5947.91	8973.19	6121.08	Fourth	Third	First	Second
GWADAR	4971.96	3212.12	6749.48	6795.67	Third	Fourth	Second	First
QUETTA	7616.25	3908.09	8104.39	6543.72	Second	Fourth	First	Third
ISLAMABAD	8042.42	6014.27	7879.78	8555.44	Second	Fourth	Third	First
KOT RADHA KISHAN	7473.29	4936.98	8532.87	8277.21	Third	Fourth	First	Second
SHEIKHUPURA	7062.78	6029.64	7365.07	7697.7	Third	Fourth	Second	First
HANGU	5256.15	4380.59	6600.04	5520.16	Third	Fourth	First	Second
KUCHLAK	7189.01	4516.37	7764.51	8464.35	Third	Fourth	Second	First
ABBOTTABAD	12940.16	10690.83	13462.38	15392.46	Third	Fourth	Second	First
LOWER DIR	9834.68	8933.44	14055.46	12795.12	Third	Fourth	First	Second
MANSEHRA	15034.77	9035.28	16676.37	16189.76	Third	Fourth	First	Second
MATIARI	8243.24	4718.4	8560.44	8466.75	Third	Fourth	First	Second
MACH	7490.18	3242.58	6951.03	9306.3	Second	Fourth	Third	First
PASROOR	6937.73	3967.84	7182.33	9053.07	Third	Fourth	Second	First
PISHIN	7501.41	3928.54	6983.53	6936.99	First	Fourth	Second	Third
SARGODHA	11287.64	8832.64	14079.95	13768.28	Third	Fourth	First	Second
UMERKOT	6610.83	5193.58	9076.9	8115.71	Third	Fourth	First	Second

Table 4.7: Upload User Data Throughput Technology Auto Detect Mode [Fixed Size] $\geq$ 768Kbps