

M.E.RF & Antenna Solution

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LiveU

LU300S Efficiency Test Report
For FCC LAB



LU300S Wi-Fi #1 & Wi-Fi#2 Antenna 3D Chamber Test Results

		Wi-Fi #1			Wi-Fi #2		
Band Designator	Frequency, MHz	Ant EFF [%]	Ant EFF [dB]	peak gain dBi	Ant EFF [%]	Ant EFF [dB]	peak gain dBi
WiFi 802.11 g	2402	58.49	-2.33	+1.69	26.24	-5.81	-1.04
WiFi 802.11 g	2483.5	63.26	-1.99	+2.45	27.21	-5.65	-1.35
WiFi 802.11 a	5150	67.88	-1.68	+3.62	58.94	-2.30	+4.22
WiFi 802.11 a	5250	79.85	-0.98	+4.05	64.65	-1.89	+4.43
WiFi 802.11 a	5350	82.56	-0.83	+4.25	66.73	-1.76	+4.51
WiFi 802.11 a	5470	68.78	-1.63	+3.56	43.50	-3.62	+2.56
WiFi 802.11 a	5600	65.85	-1.81	+3.35	44.87	-3.48	+2.45
WiFi 802.11 a	5725	64.15	-1.93	+3.18	45.67	-3.40	+2.57
WiFi 802.11 a	5850	74.85	-1.26	+3.95	57.83	-2.28	+3.45

**LU300S N41#1 & N41#2 Antenna 3D Chamber Test Results**

		N41 #1			N41 #2		
Band Designator	Frequency [MHz]	Ant EFF [%]	Ant EFF [dB]	peak gain [dBi]	Ant EFF [%]	Ant EFF [dB]	peak gain [dBi]
n41	2500	44.12	-3.55	+1.17	40.36	-3.94	-0.68
n41	2600	45.77	-3.39	+0.92	41.40	-3.83	-0.05
n41	2700	45.21	-3.45	+0.64	43.13	-3.65	+0.38

LiveU**LU300S LTE #1 Efficiency Test Results**

Band Designator	Frequency MHz	Ant EFF [%]	Ant EFF [db]	Ant peak gain [dBi]
B71 TX	663	35.76	-4.47	-1.21
B12 TX	699	51.56	-2.88	+1.37
B12/B17 TX	716	52.75	-2.78	+1.52
B13 TX	777	56.53	-2.48	+1.87
B13 TX	787	56.61	-2.47	+2.12
B14 TX	788	57.04	-2.44	+2.30
B14 TX	798	57.12	-2.43	+2.34
B26 TX	814	57.23	-2.42	+2.91
B5/B26 TX	824	54.74	-2.62	+1.53
B5/B26 TX	849	52.78	-2.78	+1.16
B4/B66 TX	1710	73.85	-1.32	+1.75
B4/B66 TX	1755	74.53	-1.28	+1.86
B66 TX	1780	76.12	-1.19	+1.94
B2/B25 TX	1850	75.36	-1.23	+1.83
B2/B25 TX	1910	73.26	-1.35	+1.85
B25 TX	1915	75.05	-1.25	+1.89
B41 TX	2496	53.38	-2.73	+1.74
B7/B38/B41 TX	2570	54.53	-2.63	+2.18
B38/B41 TX	2620	55.47	-2.56	+2.43
B41 TX	2690	56.76	-2.46	+2.61

LiveU**LU300S LTE #2 Efficiency Test Results**

Band Designator	Frequency MHz	Ant EFF [%]	Ant EFF [db]	Ant peak gain [dBi]
B71 TX	663	36.18	-4.42	-1.32
B12 TX	699	50.73	-2.95	+1.25
B12/B17 TX	716	51.64	-2.87	+0.91
B13 TX	777	56.19	-2.50	+1.71
B13 TX	787	56.23	-2.50	+1.89
B14 TX	788	56.55	-2.48	+2.21
B14 TX	798	56.74	-2.46	+2.26
B26 TX	814	56.87	-2.45	+2.41
B5/B26 TX	824	53.67	-2.70	+1.13
B5/B26 TX	849	51.86	-2.85	+1.05
B4/B66 TX	1710	74.88	-1.26	+2.13
B4/B66 TX	1755	75.67	-1.21	+2.19
B66 TX	1780	76.82	-1.15	+2.32
B2/B25 TX	1850	77.43	-1.11	+2.44
B2/B25 TX	1910	79.75	-0.98	+2.46
B25 TX	1915	80.12	-0.96	+2.51
B41 TX	2496	53.46	-2.72	+1.86
B7/B38/B41 TX	2570	54.77	-2.61	+2.15
B38/B41 TX	2620	55.64	-2.55	+2.36
B41 TX	2690	56.96	-2.44	+2.65