

Appendix H. SAR Test Result

SAR Results for Body Exposure Condition.

Note:

1. SAR testing for WLAN was performed on the maximum power mode.
2. The “< 0.001” means there is no SAR value or the SAR is too low to be measured.

Test Engineer : Danny Laj, and Allen Kuo

Body SAR Test Result

System & Position																DUT & Accessory			SAR					
Plot No.	Band	Mode	Test Position	Separation Distance (mm)	Channel	Ant Status	Ant Direction	Ant Rotation Angle	Duty Cycle	Crest Factor	Max. Tune-up Power (dBm)	Measured Conducted Power (dBm)	Scaling Factor	Power Drift (dB)	Measured SAR-1g (W/kg)	Scaled SAR-1g (W/kg)								
Body SAR Test SAR-1g : 1.6 W/kg																								
	WLAN2.4G	802.11b	Front Face	5	6	Ant 0+1	Top Side Directed	-	100.00	1.00	22.00	21.68	1.08	0.05	0.853	0.92								
	WLAN2.4G	802.11b	Rear Face	5	6	Ant 0+1	Front Face Directed	0°	100.00	1.00	22.00	21.68	1.08	-0.14	0.294	0.32								
	WLAN2.4G	802.11b	Rear Face	5	6	Ant 0+1	Front Face Directed	90°	100.00	1.00	22.00	21.68	1.08	-0.15	0.281	0.30								
	WLAN2.4G	802.11b	Rear Face	5	6	Ant 0+1	Front Face Directed	180°	100.00	1.00	22.00	21.68	1.08	0.01	0.273	0.29								
	WLAN2.4G	802.11b	Rear Face	5	6	Ant 0+1	Front Face Directed	270°	100.00	1.00	22.00	21.68	1.08	0.16	0.292	0.32								
	WLAN2.4G	802.11b	Rear Face	5	6	Ant 0+1	Left and Right Side Directed	-	100.00	1.00	22.00	21.68	1.08	0.06	0.113	0.12								
	WLAN2.4G	802.11b	Rear Face	5	6	Ant 0+1	Top Side Directed	-	100.00	1.00	22.00	21.68	1.08	0.11	0.257	0.28								
	WLAN2.4G	802.11b	Rear Face	5	6	Ant 0+1	Bottom Side Directed	-	100.00	1.00	22.00	21.68	1.08	0.13	0.187	0.20								
	WLAN2.4G	802.11b	Left Side	5	6	Ant 0+1	Front Face Directed	0°	100.00	1.00	22.00	21.68	1.08	-0.08	0.252	0.27								
	WLAN2.4G	802.11b	Left Side	5	6	Ant 0+1	Front Face Directed	90°	100.00	1.00	22.00	21.68	1.08	-0.15	0.269	0.29								
	WLAN2.4G	802.11b	Left Side	5	6	Ant 0+1	Front Face Directed	180°	100.00	1.00	22.00	21.68	1.08	0.01	0.262	0.28								
	WLAN2.4G	802.11b	Left Side	5	6	Ant 0+1	Front Face Directed	270°	100.00	1.00	22.00	21.68	1.08	-0.09	0.259	0.28								
	WLAN2.4G	802.11b	Left Side	5	6	Ant 0+1	Top Side Directed	-	100.00	1.00	22.00	21.68	1.08	-0.05	0.531	0.57								
	WLAN2.4G	802.11b	Left Side	5	6	Ant 0+1	Bottom Side Directed	-	100.00	1.00	22.00	21.68	1.08	-0.17	0.802	0.87								
	WLAN2.4G	802.11b	Right Side	5	6	Ant 0+1	Front Face Directed	0°	100.00	1.00	22.00	21.68	1.08	-0.05	0.702	0.76								
	WLAN2.4G	802.11b	Right Side	5	6	Ant 0+1	Front Face Directed	90°	100.00	1.00	22.00	21.68	1.08	-0.02	0.674	0.73								
	WLAN2.4G	802.11b	Right Side	5	6	Ant 0+1	Front Face Directed	180°	100.00	1.00	22.00	21.68	1.08	-0.03	0.582	0.63								
	WLAN2.4G	802.11b	Right Side	5	6	Ant 0+1	Front Face Directed	270°	100.00	1.00	22.00	21.68	1.08	0.16	0.489	0.53								
1	WLAN2.4G	802.11b	Right Side	5	6	Ant 0+1	Top Side Directed	-	100.00	1.00	22.00	21.68	1.08	-0.09	1	1.08								
	WLAN2.4G	802.11b	Right Side	5	6	Ant 0+1	Bottom Side Directed	-	100.00	1.00	22.00	21.68	1.08	0.17	0.851	0.92								
	WLAN2.4G	802.11b	Bottom Side	5	6	Ant 0+1	Front Face Directed	0°	100.00	1.00	22.00	21.68	1.08	0.03	0.198	0.21								
	WLAN2.4G	802.11b	Bottom Side	5	6	Ant 0+1	Front Face Directed	90°	100.00	1.00	22.00	21.68	1.08	0.14	0.188	0.20								
	WLAN2.4G	802.11b	Bottom Side	5	6	Ant 0+1	Front Face Directed	180°	100.00	1.00	22.00	21.68	1.08	-0.02	0.187	0.20								
	WLAN2.4G	802.11b	Bottom Side	5	6	Ant 0+1	Front Face Directed	270°	100.00	1.00	22.00	21.68	1.08	0.01	0.184	0.20								
	WLAN2.4G	802.11b	Bottom Side	5	6	Ant 0+1	Left and Right Side Directed	-	100.00	1.00	22.00	21.68	1.08	0.16	0.703	0.76								
	WLAN2.4G	802.11b	Bottom Side	5	6	Ant 0+1	Top Side Directed	-	100.00	1.00	22.00	21.68	1.08	-0.13	0.168	0.18								
	WLAN2.4G	802.11b	Front Face	5	1	Ant 0+1	Top Side Directed	-	100.00	1.00	21.50	21.08	1.10	0.09	0.568	0.62								
	WLAN2.4G	802.11b	Front Face	5	11	Ant 0+1	Top Side Directed	-	100.00	1.00	21.00	20.76	1.06	0	0.704	0.75								
	WLAN2.4G	802.11b	Left Side	5	1	Ant 0+1	Bottom Side Directed	-	100.00	1.00	21.50	21.08	1.10	-0.16	0.468	0.51								
	WLAN2.4G	802.11b	Left Side	5	11	Ant 0+1	Bottom Side Directed	-	100.00	1.00	21.00	20.76	1.06	0.02	0.615	0.65								
	WLAN2.4G	802.11b	Right Side	5	1	Ant 0+1	Top Side Directed	-	100.00	1.00	21.50	21.08	1.10	-0.04	0.598	0.66								
	WLAN2.4G	802.11b	Right Side	5	11	Ant 0+1	Top Side Directed	-	100.00	1.00	21.00	20.76	1.06	0.19	0.756	0.80								
	WLAN2.4G	802.11b	Right Side	5	1	Ant 0+1	Bottom Side Directed	-	100.00	1.00	21.50	21.08	1.10	-0.03	0.517	0.57								
	WLAN2.4G	802.11b	Right Side	5	11	Ant 0+1	Bottom Side Directed	-	100.00	1.00	21.00	20.76	1.06	-0.07	0.672	0.71								
	WLAN2.4G	802.11b	Right Side	5	6	Ant 0+1	Top Side Directed	-	100.00	1.00	22.00	21.68	1.08	-0.12	0.958	1.03								
	WLAN5.2G	802.11ac VHT80	Front Face	5	42	Ant 0+1	Top Side Directed	-	100.00	1.00	18.50	18.16	1.08	-0.03	0.632	0.68								
	WLAN5.2G	802.11ac VHT80	Rear Face	5	42	Ant 0+1	Front Face Directed	0°	100.00	1.00	18.50	18.16	1.08	0.09	0.054	0.06								
	WLAN5.2G	802.11ac VHT80	Rear Face	5	42	Ant 0+1	Front Face Directed	90°	100.00	1.00	18.50	18.16	1.08	0.01	0.053	0.06								
	WLAN5.2G	802.11ac VHT80	Rear Face	5	42	Ant 0+1	Front Face Directed	180°	100.00	1.00	18.50	18.16	1.08	-0.12	0.051	0.06								
	WLAN5.2G	802.11ac VHT80	Rear Face	5	42	Ant 0+1	Front Face Directed	270°	100.00	1.00	18.50	18.16	1.08	-0.17	0.050	0.05								
	WLAN5.2G	802.11ac VHT80	Rear Face	5	42	Ant 0+1	Left and Right Side Directed	-	100.00	1.00	18.50	18.16	1.08	0	0.036	0.04								
	WLAN5.2G	802.11ac VHT80	Rear Face	5	42	Ant 0+1	Top Side Directed	-	100.00	1.00	18.50	18.16	1.08	-0.04	0.038	0.04								
	WLAN5.2G	802.11ac VHT80	Rear Face	5	42	Ant 0+1	Bottom Side Directed	-	100.00	1.00	18.50	18.16	1.08	-0.05	0.043	0.05								

Body SAR Test Result

System & Position						DUT & Accessory			SAR							
Plot No.	Band	Mode	Test Position	Separation Distance (mm)	Channel	Ant Status	Ant Direction	Ant Rotation Angle	Duty Cycle	Crest Factor	Max. Tune-up Power (dBm)	Measured Conducted Power (dBm)	Scaling Factor	Power Drift (dB)	Measured SAR-1g (W/kg)	Scaled SAR-1g (W/kg)
Body SAR Test SAR-1g : 1.6 W/kg																
	WLAN5.2G	802.11ac VHT80	Left Side	5	42	Ant 0+1	Front Face Directed	0°	100.00	1.00	18.50	18.16	1.08	-0.06	0.576	0.62
	WLAN5.2G	802.11ac VHT80	Left Side	5	42	Ant 0+1	Front Face Directed	90°	100.00	1.00	18.50	18.16	1.08	-0.18	0.656	0.71
	WLAN5.2G	802.11ac VHT80	Left Side	5	42	Ant 0+1	Front Face Directed	180°	100.00	1.00	18.50	18.16	1.08	-0.01	0.702	0.76
	WLAN5.2G	802.11ac VHT80	Left Side	5	42	Ant 0+1	Front Face Directed	270°	100.00	1.00	18.50	18.16	1.08	-0.15	0.549	0.59
	WLAN5.2G	802.11ac VHT80	Left Side	5	42	Ant 0+1	Top Side Directed	-	100.00	1.00	18.50	18.16	1.08	0.05	0.781	0.84
2	WLAN5.2G	802.11ac VHT80	Left Side	5	42	Ant 0+1	Bottom Side Directed	-	100.00	1.00	18.50	18.16	1.08	0.01	0.932	1.01
	WLAN5.2G	802.11ac VHT80	Right Side	5	42	Ant 0+1	Front Face Directed	0°	100.00	1.00	18.50	18.16	1.08	-0.10	0.305	0.33
	WLAN5.2G	802.11ac VHT80	Right Side	5	42	Ant 0+1	Front Face Directed	90°	100.00	1.00	18.50	18.16	1.08	-0.09	0.229	0.25
	WLAN5.2G	802.11ac VHT80	Right Side	5	42	Ant 0+1	Front Face Directed	180°	100.00	1.00	18.50	18.16	1.08	0.10	0.255	0.28
	WLAN5.2G	802.11ac VHT80	Right Side	5	42	Ant 0+1	Front Face Directed	270°	100.00	1.00	18.50	18.16	1.08	0.19	0.237	0.26
	WLAN5.2G	802.11ac VHT80	Right Side	5	42	Ant 0+1	Top Side Directed	-	100.00	1.00	18.50	18.16	1.08	0.08	0.325	0.35
	WLAN5.2G	802.11ac VHT80	Right Side	5	42	Ant 0+1	Bottom Side Directed	-	100.00	1.00	18.50	18.16	1.08	0.07	0.333	0.36
	WLAN5.2G	802.11ac VHT80	Bottom Side	5	42	Ant 0+1	Front Face Directed	0°	100.00	1.00	18.50	18.16	1.08	0.08	0.302	0.33
	WLAN5.2G	802.11ac VHT80	Bottom Side	5	42	Ant 0+1	Front Face Directed	90°	100.00	1.00	18.50	18.16	1.08	0.01	0.285	0.31
	WLAN5.2G	802.11ac VHT80	Bottom Side	5	42	Ant 0+1	Front Face Directed	180°	100.00	1.00	18.50	18.16	1.08	-0.05	0.213	0.23
	WLAN5.2G	802.11ac VHT80	Bottom Side	5	42	Ant 0+1	Front Face Directed	270°	100.00	1.00	18.50	18.16	1.08	0.16	0.217	0.23
	WLAN5.2G	802.11ac VHT80	Bottom Side	5	42	Ant 0+1	Left and Right Side Directed	-	100.00	1.00	18.50	18.16	1.08	-0.10	0.564	0.61
	WLAN5.2G	802.11ac VHT80	Bottom Side	5	42	Ant 0+1	Top Side Directed	-	100.00	1.00	18.50	18.16	1.08	-0.02	0.075	0.08
	WLAN5.2G	802.11ac VHT80	Left Side	5	42	Ant 0+1	Bottom Side Directed	-	100.00	1.00	18.50	18.16	1.08	-0.16	0.894	0.97
	WLAN5.8G	802.11ac VHT80	Front Face	5	155	Ant 0+1	Top Side Directed	-	100.00	1.00	18.50	18.19	1.07	-0.10	0.526	0.56
	WLAN5.8G	802.11ac VHT80	Rear Face	5	155	Ant 0+1	Front Face Directed	0°	100.00	1.00	18.50	18.19	1.07	0.08	0.10	0.11
	WLAN5.8G	802.11ac VHT80	Rear Face	5	155	Ant 0+1	Front Face Directed	90°	100.00	1.00	18.50	18.19	1.07	0.18	0.099	0.11
	WLAN5.8G	802.11ac VHT80	Rear Face	5	155	Ant 0+1	Front Face Directed	180°	100.00	1.00	18.50	18.19	1.07	0.10	0.097	0.10
	WLAN5.8G	802.11ac VHT80	Rear Face	5	155	Ant 0+1	Front Face Directed	270°	100.00	1.00	18.50	18.19	1.07	0.19	0.098	0.10
	WLAN5.8G	802.11ac VHT80	Rear Face	5	155	Ant 0+1	Left and Right Side Directed	-	100.00	1.00	18.50	18.19	1.07	0.14	0.046	0.05
	WLAN5.8G	802.11ac VHT80	Rear Face	5	155	Ant 0+1	Top Side Directed	-	100.00	1.00	18.50	18.19	1.07	-0.11	0.084	0.09
	WLAN5.8G	802.11ac VHT80	Rear Face	5	155	Ant 0+1	Bottom Side Directed	-	100.00	1.00	18.50	18.19	1.07	-0.04	0.058	0.06
	WLAN5.8G	802.11ac VHT80	Left Side	5	155	Ant 0+1	Front Face Directed	0°	100.00	1.00	18.50	18.19	1.07	0.09	0.494	0.53
	WLAN5.8G	802.11ac VHT80	Left Side	5	155	Ant 0+1	Front Face Directed	90°	100.00	1.00	18.50	18.19	1.07	0.04	0.524	0.56
	WLAN5.8G	802.11ac VHT80	Left Side	5	155	Ant 0+1	Front Face Directed	180°	100.00	1.00	18.50	18.19	1.07	-0.14	0.604	0.65
	WLAN5.8G	802.11ac VHT80	Left Side	5	155	Ant 0+1	Front Face Directed	270°	100.00	1.00	18.50	18.19	1.07	0.16	0.443	0.47
	WLAN5.8G	802.11ac VHT80	Left Side	5	155	Ant 0+1	Top Side Directed	-	100.00	1.00	18.50	18.19	1.07	0	0.696	0.74
3	WLAN5.8G	802.11ac VHT80	Left Side	5	155	Ant 0+1	Bottom Side Directed	-	100.00	1.00	18.50	18.19	1.07	-0.05	1.06	1.13
	WLAN5.8G	802.11ac VHT80	Right Side	5	155	Ant 0+1	Front Face Directed	0°	100.00	1.00	18.50	18.19	1.07	0.08	0.302	0.32
	WLAN5.8G	802.11ac VHT80	Right Side	5	155	Ant 0+1	Front Face Directed	90°	100.00	1.00	18.50	18.19	1.07	0.10	0.299	0.32
	WLAN5.8G	802.11ac VHT80	Right Side	5	155	Ant 0+1	Front Face Directed	180°	100.00	1.00	18.50	18.19	1.07	0.13	0.263	0.28
	WLAN5.8G	802.11ac VHT80	Right Side	5	155	Ant 0+1	Front Face Directed	270°	100.00	1.00	18.50	18.19	1.07	-0.11	0.223	0.24
	WLAN5.8G	802.11ac VHT80	Right Side	5	155	Ant 0+1	Top Side Directed	-	100.00	1.00	18.50	18.19	1.07	0.01	0.422	0.45
	WLAN5.8G	802.11ac VHT80	Right Side	5	155	Ant 0+1	Bottom Side Directed	-	100.00	1.00	18.50	18.19	1.07	-0.06	0.45	0.48
	WLAN5.8G	802.11ac VHT80	Bottom Side	5	155	Ant 0+1	Front Face Directed	0°	100.00	1.00	18.50	18.19	1.07	-0.11	0.259	0.28
	WLAN5.8G	802.11ac VHT80	Bottom Side	5	155	Ant 0+1	Front Face Directed	90°	100.00	1.00	18.50	18.19	1.07	-0.02	0.269	0.29
	WLAN5.8G	802.11ac VHT80	Bottom Side	5	155	Ant 0+1	Front Face Directed	180°	100.00	1.00	18.50	18.19	1.07	-0.09	0.211	0.23
	WLAN5.8G	802.11ac VHT80	Bottom Side	5	155	Ant 0+1	Front Face Directed	270°	100.00	1.00	18.50	18.19	1.07	-0.06	0.216	0.23
	WLAN5.8G	802.11ac VHT80	Bottom Side	5	155	Ant 0+1	Left and Right Side Directed	-	100.00	1.00	18.50	18.19	1.07	-0.08	0.610	0.65
	WLAN5.8G	802.11ac VHT80	Bottom Side	5	155	Ant 0+1	Top Side Directed	-	100.00	1.00	18.50	18.19	1.07	-0.03	0.283	0.30
	WLAN5.8G	802.11ac VHT80	Left Side	5	155	Ant 0+1	Bottom Side Directed	-	100.00	1.00	18.50	18.19	1.07	0.07	1.01	1.08