



Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Antenna	Headset	Power Reduction	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
2600MHz																				
	LTE Band 7	20M	QPSK	1	0	Front	5mm	Ant 2	-	Reduced	21100	2535	18.62	19.50	1.225	-	-	-0.1	0.665	0.814
	LTE Band 7	20M	QPSK	1	0	Front	5mm	Ant 2	-	Reduced	20850	2510	18.49	19.50	1.262	-	-	-0.05	0.785	0.991
	LTE Band 7	20M	QPSK	1	0	Front	5mm	Ant 2	-	Reduced	21350	2560	18.44	19.50	1.276	-	-	0.06	0.609	0.777
	LTE Band 7	20M	QPSK	50	0	Front	5mm	Ant 2	-	Reduced	21100	2535	18.55	19.50	1.245	-	-	-0.01	0.529	0.658
	LTE Band 7	20M	QPSK	100	0	Front	5mm	Ant 2	-	Reduced	21100	2535	18.43	19.50	1.279	-	-	0.01	0.525	0.672
	LTE Band 7	20M	QPSK	1	0	Back	5mm	Ant 2	-	Reduced	21100	2535	18.62	19.50	1.225	-	-	-0.14	0.858	1.051
55	LTE Band 7	20M	QPSK	1	0	Back	5mm	Ant 2	-	Reduced	20850	2510	18.49	19.50	1.262	-	-	0.08	0.981	1.238
	LTE Band 7	20M	QPSK	1	0	Back	5mm	Ant 2	-	Reduced	21350	2560	18.44	19.50	1.276	-	-	0.08	0.845	1.079
	LTE Band 7	20M	QPSK	50	0	Back	5mm	Ant 2	-	Reduced	21100	2535	18.55	19.50	1.245	-	-	0.06	0.685	0.852
	LTE Band 7	20M	QPSK	50	0	Back	5mm	Ant 2	-	Reduced	20850	2510	18.27	19.50	1.327	-	-	0.17	0.735	0.976
	LTE Band 7	20M	QPSK	50	0	Back	5mm	Ant 2	-	Reduced	21350	2560	18.33	19.50	1.309	-	-	0.07	0.658	0.861
	LTE Band 7	20M	QPSK	100	0	Back	5mm	Ant 2	-	Reduced	21100	2535	18.43	19.50	1.279	-	-	-0.13	0.678	0.867
	LTE Band 7	20M	QPSK	1	0	Back	5mm	Ant 2	Headset	Reduced	20850	2510	18.49	19.50	1.262	-	-	0.09	0.750	0.946
	LTE Band 7	20M	QPSK	1	0	Front	19mm	Ant 2	-	Full	20850	2510	22.61	24.00	1.377	-	-	0.03	0.333	0.459
	LTE Band 7	20M	QPSK	1	0	Back	22mm	Ant 2	-	Full	20850	2510	22.61	24.00	1.377	-	-	0.19	0.353	0.486
	LTE Band 38	20M	QPSK	1	0	Front	5mm	Ant 2	-	Reduced	38000	2595	20.31	21.50	1.315	62.9	1.006	0.01	0.657	0.869
	LTE Band 38	20M	QPSK	1	0	Front	5mm	Ant 2	-	Reduced	37850	2580	20.18	21.50	1.355	62.9	1.006	0.03	0.709	0.967
	LTE Band 38	20M	QPSK	1	0	Front	5mm	Ant 2	-	Reduced	38150	2610	20.17	21.50	1.358	62.9	1.006	0.04	0.674	0.921
	LTE Band 38	20M	QPSK	50	0	Front	5mm	Ant 2	-	Reduced	38000	2595	20.29	21.50	1.321	62.9	1.006	0.05	0.572	0.760
	LTE Band 38	20M	QPSK	100	0	Front	5mm	Ant 2	-	Reduced	38000	2595	20.21	21.50	1.346	62.9	1.006	0.08	0.564	0.764
	LTE Band 38	20M	QPSK	1	0	Back	5mm	Ant 2	-	Reduced	38000	2595	20.31	21.50	1.315	62.9	1.006	0.09	0.779	1.031
56	LTE Band 38	20M	QPSK	1	0	Back	5mm	Ant 2	-	Reduced	37850	2580	20.18	21.50	1.355	62.9	1.006	0.01	0.953	1.299
	LTE Band 38	20M	QPSK	1	0	Back	5mm	Ant 2	-	Reduced	38150	2610	20.17	21.50	1.358	62.9	1.006	0.01	0.843	1.152
	LTE Band 38	20M	QPSK	50	0	Back	5mm	Ant 2	-	Reduced	38000	2595	20.29	21.50	1.321	62.9	1.006	0.05	0.680	0.904
	LTE Band 38	20M	QPSK	50	0	Back	5mm	Ant 2	-	Reduced	37850	2580	20.20	21.50	1.349	62.9	1.006	0.07	0.709	0.962
	LTE Band 38	20M	QPSK	50	0	Back	5mm	Ant 2	-	Reduced	38150	2610	20.21	21.50	1.346	62.9	1.006	0.08	0.639	0.865
	LTE Band 38	20M	QPSK	100	0	Back	5mm	Ant 2	-	Reduced	38000	2595	20.21	21.50	1.346	62.9	1.006	0.06	0.686	0.929
	LTE Band 38	20M	QPSK	1	0	Back	5mm	Ant 2	Headset	Reduced	37850	2580	20.18	21.50	1.355	62.9	1.006	0.03	0.709	0.967
	LTE Band 38	20M	QPSK	1	0	Front	19mm	Ant 2	-	Full	37850	2580	22.64	24.00	1.368	62.9	1.006	0.04	0.281	0.387
	LTE Band 38	20M	QPSK	1	0	Back	22mm	Ant 2	-	Full	37850	2580	22.64	24.00	1.368	62.9	1.006	0.01	0.255	0.351
	LTE Band 41	20M	QPSK	1	0	Front	5mm	Ant 2	-	Reduced	40620	2593	18.20	19.50	1.349	62.9	1.006	0.01	0.441	0.598
	LTE Band 41	20M	QPSK	50	0	Front	5mm	Ant 2	-	Reduced	40620	2593	18.08	19.50	1.387	62.9	1.006	0.09	0.361	0.504
	LTE Band 41	20M	QPSK	1	0	Back	5mm	Ant 2	-	Reduced	40620	2593	18.20	19.50	1.349	62.9	1.006	0.02	0.579	0.786
	LTE Band 41	20M	QPSK	1	0	Back	5mm	Ant 2	-	Reduced	39750	2506	18.11	19.50	1.377	62.9	1.006	-0.01	0.612	0.848
	LTE Band 41	20M	QPSK	1	0	Back	5mm	Ant 2	-	Reduced	40185	2549.5	17.91	19.50	1.442	62.9	1.006	0.01	0.554	0.804
	LTE Band 41	20M	QPSK	1	0	Back	5mm	Ant 2	-	Reduced	41055	2636.5	17.95	19.50	1.429	62.9	1.006	0.06	0.470	0.676
	LTE Band 41	20M	QPSK	1	0	Back	5mm	Ant 2	-	Reduced	41490	2680	17.73	19.50	1.503	62.9	1.006	0.01	0.367	0.555
	LTE Band 41	20M	QPSK	50	0	Back	5mm	Ant 2	-	Reduced	40620	2593	18.08	19.50	1.387	62.9	1.006	0.03	0.466	0.650
	LTE Band 41	20M	QPSK	50	0	Back	5mm	Ant 2	-	Reduced	39750	2506	18.01	19.50	1.409	62.9	1.006	0.02	0.529	0.750
	LTE Band 41	20M	QPSK	50	0	Back	5mm	Ant 2	-	Reduced	40185	2549.5	18.05	19.50	1.396	62.9	1.006	0.09	0.561	0.788
	LTE Band 41	20M	QPSK	50	0	Back	5mm	Ant 2	-	Reduced	41055	2636.5	17.85	19.50	1.462	62.9	1.006	0.06	0.376	0.553
	LTE Band 41	20M	QPSK	50	0	Back	5mm	Ant 2	-	Reduced	41490	2680	17.74	19.50	1.500	62.9	1.006	0.06	0.294	0.444
	LTE Band 41	20M	QPSK	100	0	Back	5mm	Ant 2	-	Reduced	40620	2593	18.18	19.50	1.355	62.9	1.006	0.01	0.457	0.623
	LTE Band 41	20M	QPSK	1	0	Back	5mm	Ant 2	-	Reduced	39750+39948	2506+2525.8	17.95	19.50	1.429	62.9	1.006	0.03	0.583	0.838
	LTE Band 41	20M	QPSK	1	0	Front	19mm	Ant 2	-	Full	40620	2593	22.27	23.50	1.327	62.9	1.006	0.01	0.205	0.274
	LTE Band 41	20M	QPSK	1	0	Back	22mm	Ant 2	-	Full	39750	2506	22.09	23.50	1.384	62.9	1.006	0.06	0.188	0.262
	LTE Band 41_HPUE	20M	QPSK	1	0	Front	5mm	Ant 2	-	Reduced	40620	2593	21.33	22.50	1.309	42.9	1.009	0.01	0.641	0.847
	LTE Band 41_HPUE	20M	QPSK	1	0	Front	5mm	Ant 2	-	Reduced	39750	2506	21.24	22.50	1.337	42.9	1.009	0.06	0.756	1.020
	LTE Band 41_HPUE	20M	QPSK	1	0	Front	5mm	Ant 2	-	Reduced	40185	2549.5	21.20	22.50	1.349	42.9	1.009	0.05	0.658	0.896
	LTE Band 41_HPUE	20M	QPSK	1	0	Front	5mm	Ant 2	-	Reduced	41055	2636.5	21.13	22.50	1.371	42.9	1.009	0.08	0.635	0.878
	LTE Band 41_HPUE	20M	QPSK	1	0	Front	5mm	Ant 2	-	Reduced	41490	2680	21.07	22.50	1.390	42.9	1.009	0.1	0.596	0.836



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	LTE Band 41_HPUE	20M	QPSK	50	0	Front	5mm	Ant 2	-	Reduced	40620	2593	21.23	22.50	1.340	42.9	1.009	0.09	0.526	0.711
	LTE Band 41_HPUE	20M	QPSK	50	0	Front	5mm	Ant 2	-	Reduced	39750	2506	21.11	22.50	1.377	42.9	1.009	0.03	0.603	0.838
	LTE Band 41_HPUE	20M	QPSK	50	0	Front	5mm	Ant 2	-	Reduced	40185	2549.5	21.09	22.50	1.384	42.9	1.009	0.06	0.531	0.741
	LTE Band 41_HPUE	20M	QPSK	50	0	Front	5mm	Ant 2	-	Reduced	41055	2636.5	21.05	22.50	1.396	42.9	1.009	0.04	0.511	0.720
	LTE Band 41_HPUE	20M	QPSK	50	0	Front	5mm	Ant 2	-	Reduced	41490	2680	20.95	22.50	1.429	42.9	1.009	-0.07	0.477	0.688
	LTE Band 41_HPUE	20M	QPSK	100	0	Front	5mm	Ant 2	-	Reduced	40620	2593	21.26	22.50	1.330	42.9	1.009	0.06	0.519	0.697
	LTE Band 41_HPUE	20M	QPSK	1	0	Back	5mm	Ant 2	-	Reduced	40620	2593	21.33	22.50	1.309	42.9	1.009	0.02	0.842	1.112
57	LTE Band 41_HPUE	20M	QPSK	1	0	Back	5mm	Ant 2	-	Reduced	39750	2506	21.24	22.50	1.337	42.9	1.009	0.02	0.934	1.260
	LTE Band 41_HPUE	20M	QPSK	1	0	Back	5mm	Ant 2	-	Reduced	40185	2549.5	21.20	22.50	1.349	42.9	1.009	0.01	0.895	1.218
	LTE Band 41_HPUE	20M	QPSK	1	0	Back	5mm	Ant 2	-	Reduced	41055	2636.5	21.13	22.50	1.371	42.9	1.009	0.06	0.684	0.946
	LTE Band 41_HPUE	20M	QPSK	1	0	Back	5mm	Ant 2	-	Reduced	41490	2680	21.07	22.50	1.390	42.9	1.009	0.01	0.534	0.749
	LTE Band 41_HPUE	20M	QPSK	50	0	Back	5mm	Ant 2	-	Reduced	40620	2593	21.23	22.50	1.340	42.9	1.009	0.03	0.677	0.915
	LTE Band 41_HPUE	20M	QPSK	50	0	Back	5mm	Ant 2	-	Reduced	39750	2506	21.11	22.50	1.377	42.9	1.009	0.02	0.770	1.070
	LTE Band 41_HPUE	20M	QPSK	50	0	Back	5mm	Ant 2	-	Reduced	40185	2549.5	21.09	22.50	1.384	42.9	1.009	0.09	0.816	1.139
	LTE Band 41_HPUE	20M	QPSK	50	0	Back	5mm	Ant 2	-	Reduced	41055	2636.5	21.05	22.50	1.396	42.9	1.009	0.06	0.547	0.771
	LTE Band 41_HPUE	20M	QPSK	50	0	Back	5mm	Ant 2	-	Reduced	41490	2680	20.95	22.50	1.429	42.9	1.009	0.06	0.428	0.617
	LTE Band 41_HPUE	20M	QPSK	100	0	Back	5mm	Ant 2	-	Reduced	40620	2593	21.26	22.50	1.330	42.9	1.009	0.01	0.664	0.891
	LTE Band 41_HPUE	20M	QPSK	1	0	Back	5mm	Ant 2	Headset	Reduced	39750	2506	21.24	22.50	1.337	42.9	1.009	0.01	0.721	0.972
	LTE Band 41_HPUE	20M	QPSK	1	0	Front	19mm	Ant 2	-	Full	39750	2506	25.03	26.50	1.403	42.9	1.009	0.01	0.264	0.374
	LTE Band 41_HPUE	20M	QPSK	1	0	Back	22mm	Ant 2	-	Full	39750	2506	25.03	26.50	1.403	42.9	1.009	0.06	0.231	0.327



Plot No.	Band	Mode	Test Position	Gap (mm)	Antenna	Headset	Power Reduction	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)	
2450MHz																		
58	WLAN2.4GHz	802.11b 1Mbps	Front	5mm	Ant 5	-	Full	1	2412	21.40	23.00	1.445	99.4	1.006	-0.09	0.869	1.264	
	WLAN2.4GHz	802.11b 1Mbps	Front	5mm	Ant 5	-	Full	6	2437	21.30	23.00	1.479	99.4	1.006	0.09	0.760	1.131	
	WLAN2.4GHz	802.11b 1Mbps	Front	5mm	Ant 5	-	Full	11	2462	21.20	23.00	1.514	99.4	1.006	0.01	0.755	1.150	
	WLAN2.4GHz	802.11b 1Mbps	Back	5mm	Ant 5	-	Full	1	2412	21.40	23.00	1.445	99.4	1.006	0.01	0.731	1.063	
	WLAN2.4GHz	802.11b 1Mbps	Back	5mm	Ant 5	-	Full	6	2437	21.30	23.00	1.479	99.4	1.006	0.09	0.719	1.070	
	WLAN2.4GHz	802.11b 1Mbps	Front	5mm	Ant 5	-	Simultaneous	1	2412	18.60	20.50	1.549	99.4	1.006	0.09	0.425	0.662	
	WLAN2.4GHz	802.11b 1Mbps	Back	5mm	Ant 5	-	Simultaneous	1	2412	18.60	20.50	1.549	99.4	1.006	0.09	0.358	0.558	
	WLAN2.4GHz	802.11b 1Mbps	Front	5mm	Ant 5	Headset	Full	1	2412	21.40	23.00	1.445	99.4	1.006	0.02	0.671	0.976	
59	Bluetooth	1Mbps	Front	5mm	Ant 5	-	Full	39	2441	9.20	9.50	1.072	76.95	1.300	0.09	0.014	0.020	
5000MHz																		
	WLAN5.3GHz	802.11ac-VHT80 MCS0	Front	5mm	Ant 6	-	Reduced	58	5290	12.36	14.00	1.459	87.65	1.141	0.06	0.067	0.112	
60	WLAN5.3GHz	802.11ac-VHT80 MCS0	Back	5mm	Ant 6	-	Reduced	58	5290	12.36	14.00	1.459	87.65	1.141	0.03	0.660	1.099	
	WLAN5.3GHz	802.11ac-VHT80 MCS0	Front	5mm	Ant 6	-	Simultaneous	58	5290	8.81	10.50	1.476	87.65	1.141	0.01	0.043	0.072	
	WLAN5.3GHz	802.11ac-VHT80 MCS0	Back	5mm	Ant 6	-	Simultaneous	58	5290	8.81	10.50	1.476	87.65	1.141	0.09	0.423	0.712	
	WLAN5.3GHz	802.11a 6Mbps	Front	19mm	Ant 6	-	Full	52	5260	19.45	21.00	1.428	96.97	1.031	0.01	0.118	0.174	
	WLAN5.3GHz	802.11a 6Mbps	Back	22mm	Ant 6	-	Full	52	5260	19.45	21.00	1.428	96.97	1.031	0.02	0.664	0.977	
	WLAN5.3GHz	802.11a 6Mbps	Back	22mm	Ant 6	-	Full	56	5280	19.31	21.00	1.476	96.97	1.031	0.06	0.621	0.945	
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Front	5mm	Ant 6	-	Reduced	122	5610	12.82	14.00	1.312	87.65	1.141	0.03	0.091	0.136	
61	WLAN5.5GHz	802.11ac-VHT80 MCS0	Back	5mm	Ant 6	-	Reduced	122	5610	12.82	14.00	1.312	87.65	1.141	0.01	0.799	1.196	
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Back	5mm	Ant 6	-	Reduced	138	5690	12.77	14.00	1.327	87.65	1.141	0.01	0.761	1.153	
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Front	5mm	Ant 6	-	Simultaneous	122	5610	9.68	11.50	1.521	87.65	1.141	0.06	0.043	0.075	
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Back	5mm	Ant 6	-	Simultaneous	122	5610	9.68	11.50	1.521	87.65	1.141	0.03	0.407	0.706	
	WLAN5.5GHz	802.11a 6Mbps	Front	19mm	Ant 6	-	Full	116	5580	20.49	22.00	1.416	96.97	1.031	0.07	0.081	0.118	
	WLAN5.5GHz	802.11a 6Mbps	Back	22mm	Ant 6	-	Full	116	5580	20.49	22.00	1.416	96.97	1.031	0.01	0.774	1.130	
	WLAN5.5GHz	802.11a 6Mbps	Back	22mm	Ant 6	-	Full	140	5700	20.46	22.00	1.426	96.97	1.031	0.05	0.721	1.060	
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Front	5mm	Ant 6	-	Reduced	155	5775	12.51	13.50	1.256	87.65	1.141	0.03	0.111	0.159	
62	WLAN5.8GHz	802.11ac-VHT80 MCS0	Back	5mm	Ant 6	-	Reduced	155	5775	12.51	13.50	1.256	87.65	1.141	0.01	0.808	1.158	
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Front	5mm	Ant 6	-	Simultaneous	155	5775	10.02	11.50	1.406	87.65	1.141	-0.05	0.060	0.096	
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Back	5mm	Ant 6	-	Simultaneous	155	5775	10.02	11.50	1.406	87.65	1.141	-0.05	0.451	0.724	
	WLAN5.8GHz	802.11n-HT40 MCS0	Front	19mm	Ant 6	-	Full	159	5795	18.10	20.00	1.548	96.97	1.031	0.06	0.089	0.147	
	WLAN5.8GHz	802.11n-HT40 MCS0	Back	22mm	Ant 6	-	Full	159	5795	18.10	20.00	1.548	96.97	1.031	0.03	0.643	1.064	
	WLAN5.8GHz	802.11n-HT40 MCS0	Back	22mm	Ant 6	-	Full	159	5795	18.10	20.00	1.548	96.97	1.031	0.01	0.655	1.084	



15.4 Product Specific SAR

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Mode	Test Position	Gap (mm)	Antenna	Power Reduction	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 10g SAR (W/kg)	Reported 10g SAR (W/kg)	
750MHz																			
63	LTE Band 13	10M	QPSK	1	0	-	Back	0mm	Ant 1	Full	23230	782	22.47	24.00	1.422	0.06	1.100	1.565	
	LTE Band 13	10M	QPSK	25	0	-	Back	0mm	Ant 1	Full	23230	782	21.51	23.00	1.409	0.16	0.880	1.240	
64	LTE Band 14	10M	QPSK	1	0	-	Back	0mm	Ant 1	Full	23330	793	22.64	24.00	1.368	0.06	0.954	1.305	
	LTE Band 14	10M	QPSK	25	0	-	Back	0mm	Ant 1	Full	23330	793	21.67	23.00	1.358	0.02	0.780	1.059	
835MHz																			
65	GSM850	-	-	-	-	GPRS (4 Tx slots)	Front	0mm	Ant 1	Full	189	836.4	27.88	29.00	1.294	0.09	1.340	1.734	
	GSM850	-	-	-	-	GPRS (4 Tx slots)	Back	0mm	Ant 1	Full	189	836.4	27.88	29.00	1.294	-0.01	1.320	1.708	
	GSM850	-	-	-	-	GPRS (4 Tx slots)	Bottom Side	0mm	Ant 1	Full	189	836.4	27.88	29.00	1.294	-0.07	0.734	0.950	
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Front	0mm	Ant 1	Full	4182	836.4	22.74	24.00	1.337	0.07	1.510	2.018	
66	WCDMA V	-	-	-	-	RMC 12.2Kbps	Front	0mm	Ant 1	Full	4132	826.4	22.72	24.00	1.343	-0.05	1.630	2.189	
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Front	0mm	Ant 1	Full	4233	846.6	22.67	24.00	1.358	0.13	1.470	1.997	
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Back	0mm	Ant 1	Full	4182	836.4	22.74	24.00	1.337	0.06	1.360	1.818	
	WCDMA V	-	-	-	-	RMC 12.2Kbps	Bottom Side	0mm	Ant 1	Full	4182	836.4	22.74	24.00	1.337	0.08	1.430	1.911	
67	LTE Band 26	15M	QPSK	1	0	-	Back	0mm	Ant 1	Full	26865	831.5	22.92	24.00	1.282	0.03	1.520	1.949	
	LTE Band 26	15M	QPSK	36	0	-	Back	0mm	Ant 1	Full	26865	831.5	22.02	23.00	1.253	0.01	1.230	1.541	
1750MHz																			
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Front	0mm	Ant 1	Reduced	1413	1732.6	18.73	20.00	1.340	0.11	1.600	2.143	
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Front	0mm	Ant 1	Reduced	1312	1712.4	18.68	20.00	1.355	0.04	1.500	2.033	
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Front	0mm	Ant 1	Reduced	1513	1752.6	18.70	20.00	1.349	-0.10	1.620	2.185	
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Back	0mm	Ant 1	Reduced	1413	1732.6	18.73	20.00	1.340	0.06	1.980	2.653	
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Back	0mm	Ant 1	Reduced	1312	1712.4	18.68	20.00	1.355	0.05	2.010	2.724	
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Back	0mm	Ant 1	Reduced	1513	1752.6	18.70	20.00	1.349	0.14	2.050	2.765	
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Bottom Side	0mm	Ant 1	Reduced	1413	1732.6	18.73	20.00	1.340	-0.09	2.560	3.430	
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Bottom Side	0mm	Ant 1	Reduced	1312	1712.4	18.68	20.00	1.355	-0.05	2.540	3.442	
68	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Bottom Side	0mm	Ant 1	Reduced	1513	1752.6	18.70	20.00	1.349	-0.01	2.610	3.521	
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Front	9mm	Ant 1	Full	1513	1752.6	22.65	24.00	1.365	-0.18	0.960	1.310	
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Back	14mm	Ant 1	Full	1513	1752.6	22.65	24.00	1.365	-0.06	0.884	1.206	
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Bottom Side	10mm	Ant 1	Full	1413	1732.6	22.70	24.00	1.349	0.05	1.680	2.266	
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Bottom Side	10mm	Ant 1	Full	1312	1712.4	22.69	24.00	1.352	0.01	1.780	2.407	
	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Bottom Side	10mm	Ant 1	Full	1513	1752.6	22.65	24.00	1.365	0.08	1.550	2.115	
	LTE Band 66	20M	QPSK	1	0	-	Front	0mm	Ant 1	Reduced	132322	1745	18.75	20.00	1.334	-0.14	1.440	1.920	
	LTE Band 66	20M	QPSK	50	0	-	Front	0mm	Ant 1	Reduced	132322	1745	18.59	20.00	1.384	0.08	1.140	1.577	
	LTE Band 66	20M	QPSK	1	0	-	Back	0mm	Ant 1	Reduced	132322	1745	18.75	20.00	1.334	0.06	1.710	2.280	
	LTE Band 66	20M	QPSK	1	0	-	Back	0mm	Ant 1	Reduced	132072	1720	18.63	20.00	1.371	0.12	1.550	2.125	
	LTE Band 66	20M	QPSK	1	0	-	Back	0mm	Ant 1	Reduced	132572	1770	18.65	20.00	1.365	-0.10	1.880	2.565	
	LTE Band 66	20M	QPSK	50	0	-	Back	0mm	Ant 1	Reduced	132322	1745	18.59	20.00	1.384	-0.10	1.330	1.840	
	LTE Band 66	20M	QPSK	100	0	-	Back	0mm	Ant 1	Reduced	132322	1745	18.54	20.00	1.400	-0.12	1.300	1.819	
	LTE Band 66	20M	QPSK	1	0	-	Bottom Side	0mm	Ant 1	Reduced	132322	1745	18.75	20.00	1.334	0.17	2.380	3.174	
	LTE Band 66	20M	QPSK	1	0	-	Bottom Side	0mm	Ant 1	Reduced	132072	1720	18.63	20.00	1.371	-0.15	2.310	3.167	
69	LTE Band 66	20M	QPSK	1	0	-	Bottom Side	0mm	Ant 1	Reduced	132572	1770	18.65	20.00	1.365	-0.03	2.520	3.439	
	LTE Band 66	20M	QPSK	50	0	-	Bottom Side	0mm	Ant 1	Reduced	132322	1745	18.59	20.00	1.384	0.06	1.880	2.601	
	LTE Band 66	20M	QPSK	50	0	-	Bottom Side	0mm	Ant 1	Reduced	132072	1720	18.39	20.00	1.449	0.08	1.780	2.579	
	LTE Band 66	20M	QPSK	50	0	-	Bottom Side	0mm	Ant 1	Reduced	132572	1770	18.56	20.00	1.393	-0.02	1.970	2.745	
	LTE Band 66	20M	QPSK	100	0	-	Bottom Side	0mm	Ant 1	Reduced	132322	1745	18.54	20.00	1.400	0.09	1.820	2.547	
	LTE Band 66	20M	QPSK	1	0	-	Front	9mm	Ant 1	Full	132322	1745	22.59	24.00	1.384	-0.16	0.747	1.034	
	LTE Band 66	20M	QPSK	1	0	-	Back	14mm	Ant 1	Full	132572	1770	22.49	24.00	1.416	-0.10	0.674	0.954	
	LTE Band 66	20M	QPSK	1	0	-	Bottom Side	10mm	Ant 1	Full	132572	1770	22.49	24.00	1.416	0.08	1.300	1.841	



Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Mode	Test Position	Gap (mm)	Antenna	Power Reduction	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 10g SAR (W/kg)	Reported 10g SAR (W/kg)	
1900MHz																			
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Front	0mm	Ant 1	Reduced	661	1880	24.09	25.50	1.384	-0.09	1.870	2.587	
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Front	0mm	Ant 1	Reduced	512	1850.2	24.07	25.50	1.390	0.03	1.930	2.683	
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Front	0mm	Ant 1	Reduced	810	1909.8	24.01	25.50	1.409	0.05	1.890	2.664	
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Back	0mm	Ant 1	Reduced	661	1880	24.09	25.50	1.384	0.02	1.720	2.380	
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Back	0mm	Ant 1	Reduced	512	1850.2	24.07	25.50	1.390	0.09	1.840	2.558	
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Back	0mm	Ant 1	Reduced	810	1909.8	24.01	25.50	1.409	-0.03	1.770	2.494	
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Bottom Side	0mm	Ant 1	Reduced	661	1880	24.09	25.50	1.384	0.10	2.490	3.445	
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Bottom Side	0mm	Ant 1	Reduced	512	1850.2	24.07	25.50	1.390	-0.06	2.550	3.544	
70	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Bottom Side	0mm	Ant 1	Reduced	810	1909.8	24.01	25.50	1.409	-0.01	2.520	3.551	
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Front	9mm	Ant 1	Full	512	1850.2	24.64	26.00	1.368	-0.08	0.467	0.639	
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Back	14mm	Ant 1	Full	512	1850.2	24.64	26.00	1.368	0.13	0.477	0.652	
	GSM1900	-	-	-	-	GPRS (4 Tx slots)	Bottom Side	10mm	Ant 1	Full	810	1909.8	24.77	26.00	1.327	-0.12	1.140	1.513	
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Front	0mm	Ant 1	Reduced	9400	1880	19.44	20.50	1.276	-0.09	1.740	2.221	
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Front	0mm	Ant 1	Reduced	9262	1852.4	19.27	20.50	1.327	0.07	1.840	2.442	
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Front	0mm	Ant 1	Reduced	9538	1907.6	19.19	20.50	1.352	0.05	1.540	2.082	
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Back	0mm	Ant 1	Reduced	9400	1880	19.44	20.50	1.276	-0.11	1.860	2.374	
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Back	0mm	Ant 1	Reduced	9262	1852.4	19.27	20.50	1.327	0.05	1.820	2.416	
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Back	0mm	Ant 1	Reduced	9538	1907.6	19.19	20.50	1.352	0.18	1.860	2.515	
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Bottom Side	0mm	Ant 1	Reduced	9400	1880	19.44	20.50	1.276	0.07	2.460	3.140	
71	WCDMA II	-	-	-	-	RMC 12.2Kbps	Bottom Side	0mm	Ant 1	Reduced	9262	1852.4	19.27	20.50	1.327	-0.02	2.570	3.411	
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Bottom Side	0mm	Ant 1	Reduced	9538	1907.6	19.19	20.50	1.352	-0.10	2.250	3.042	
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Front	9mm	Ant 1	Full	9262	1852.4	22.65	24.00	1.365	0.04	0.972	1.326	
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Back	14mm	Ant 1	Full	9538	1907.6	22.80	24.00	1.318	0.11	0.488	0.643	
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Bottom Side	10mm	Ant 1	Full	9400	1880	22.91	24.00	1.285	-0.06	1.890	2.429	
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Bottom Side	10mm	Ant 1	Full	9262	1852.4	22.65	24.00	1.365	0.03	1.910	2.606	
	WCDMA II	-	-	-	-	RMC 12.2Kbps	Bottom Side	10mm	Ant 1	Full	9538	1907.6	22.80	24.00	1.318	0.02	1.750	2.307	
	LTE Band 25	20M	QPSK	1	0	-	Front	0mm	Ant 1	Reduced	26340	1880	19.54	20.50	1.247	-0.17	1.950	2.432	
	LTE Band 25	20M	QPSK	1	0	-	Front	0mm	Ant 1	Reduced	26140	1860	19.29	20.50	1.321	0.04	2.080	2.748	
	LTE Band 25	20M	QPSK	1	0	-	Front	0mm	Ant 1	Reduced	26590	1905	19.49	20.50	1.262	-0.18	1.730	2.183	
	LTE Band 25	20M	QPSK	50	0	-	Front	0mm	Ant 1	Reduced	26340	1880	19.44	20.50	1.276	0.03	1.550	1.978	
	LTE Band 25	20M	QPSK	100	0	-	Front	0mm	Ant 1	Reduced	26340	1880	19.31	20.50	1.315	0.04	1.540	2.025	
	LTE Band 25	20M	QPSK	1	0	-	Back	0mm	Ant 1	Reduced	26340	1880	19.54	20.50	1.247	0.15	2.100	2.620	
	LTE Band 25	20M	QPSK	1	0	-	Back	0mm	Ant 1	Reduced	26140	1860	19.29	20.50	1.321	0.01	2.000	2.643	
	LTE Band 25	20M	QPSK	1	0	-	Back	0mm	Ant 1	Reduced	26590	1905	19.49	20.50	1.262	-0.03	2.110	2.662	
	LTE Band 25	20M	QPSK	50	0	-	Back	0mm	Ant 1	Reduced	26340	1880	19.44	20.50	1.276	0.09	1.590	2.030	
	LTE Band 25	20M	QPSK	50	0	-	Back	0mm	Ant 1	Reduced	26140	1860	19.31	20.50	1.315	-0.13	1.570	2.065	
	LTE Band 25	20M	QPSK	50	0	-	Back	0mm	Ant 1	Reduced	26590	1905	19.36	20.50	1.300	-0.11	1.640	2.132	
	LTE Band 25	20M	QPSK	100	0	-	Back	0mm	Ant 1	Reduced	26340	1880	19.31	20.50	1.315	0.11	1.570	2.065	
	LTE Band 25	20M	QPSK	1	0	-	Bottom Side	0mm	Ant 1	Reduced	26340	1880	19.54	20.50	1.247	0.16	2.550	3.181	
72	LTE Band 25	20M	QPSK	1	0	-	Bottom Side	0mm	Ant 1	Reduced	26140	1860	19.29	20.50	1.321	0.03	2.680	3.541	
	LTE Band 25	20M	QPSK	1	0	-	Bottom Side	0mm	Ant 1	Reduced	26590	1905	19.49	20.50	1.262	-0.12	2.370	2.991	
	LTE Band 25	20M	QPSK	50	0	-	Bottom Side	0mm	Ant 1	Reduced	26340	1880	19.44	20.50	1.276	0.04	2.020	2.578	
	LTE Band 25	20M	QPSK	50	0	-	Bottom Side	0mm	Ant 1	Reduced	26140	1860	19.31	20.50	1.315	-0.13	2.130	2.801	
	LTE Band 25	20M	QPSK	50	0	-	Bottom Side	0mm	Ant 1	Reduced	26590	1905	19.36	20.50	1.300	0.07	1.870	2.431	
	LTE Band 25	20M	QPSK	100	0	-	Bottom Side	0mm	Ant 1	Reduced	26340	1880	19.31	20.50	1.315	0.06	1.980	2.604	
	LTE Band 25	20M	QPSK	1	0	-	Front	9mm	Ant 1	Full	26140	1860	22.50	24.00	1.413	0.01	0.737	1.041	
	LTE Band 25	20M	QPSK	1	0	-	Back	14mm	Ant 1	Full	26590	1905	22.59	24.00	1.384	0.17	0.770	1.065	
	LTE Band 25	20M	QPSK	1	0	-	Bottom Side	10mm	Ant 1	Full	26340	1880	22.66	24.00	1.361	-0.04	1.700	2.314	
	LTE Band 25	20M	QPSK	1	0	-	Bottom Side	10mm	Ant 1	Full	26140	1860	22.50	24.00	1.413	0.01	1.790	2.528	
	LTE Band 25	20M	QPSK	1	0	-	Bottom Side	10mm	Ant 1	Full	26590	1905	22.59	24.00	1.384	0.03	1.550	2.145	
	LTE Band 25	20M	QPSK	100	0	-	Bottom Side	10mm	Ant 1	Full	26340	1880	21.53	23.00	1.403	0.03	1.410	1.978	
2300MHz																			



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	LTE Band 30	10M	QPSK	1	0	-	Front	0mm	Ant 2	Reduced	27710	2310	21.96	23.00	1.271	0.18	2.080	2.643
	LTE Band 30	10M	QPSK	25	0	-	Front	0mm	Ant 2	Reduced	27710	2310	21.81	23.00	1.315	0.04	1.650	2.170
	LTE Band 30	10M	QPSK	50	0	-	Front	0mm	Ant 2	Reduced	27710	2310	21.61	23.00	1.377	0.05	1.630	2.245
73	LTE Band 30	10M	QPSK	1	0	-	Back	0mm	Ant 2	Reduced	27710	2310	21.96	23.00	1.271	0.03	2.690	3.418
	LTE Band 30	10M	QPSK	25	0	-	Back	0mm	Ant 2	Reduced	27710	2310	21.81	23.00	1.315	-0.04	2.040	2.683
	LTE Band 30	10M	QPSK	50	0	-	Back	0mm	Ant 2	Reduced	27710	2310	21.61	23.00	1.377	-0.17	2.000	2.754
	LTE Band 30	10M	QPSK	1	0	-	Left Side	0mm	Ant 2	Reduced	27710	2310	21.96	23.00	1.271	-0.09	1.760	2.236
	LTE Band 30	10M	QPSK	25	0	-	Left Side	0mm	Ant 2	Reduced	27710	2310	21.81	23.00	1.315	-0.18	1.520	1.999
	LTE Band 30	10M	QPSK	50	0	-	Left Side	0mm	Ant 2	Reduced	27710	2310	21.61	23.00	1.377	-0.12	1.490	2.052
	LTE Band 30	10M	QPSK	1	0	-	Bottom Side	0mm	Ant 2	Reduced	27710	2310	21.96	23.00	1.271	0.08	1.820	2.312
	LTE Band 30	10M	QPSK	25	0	-	Bottom Side	0mm	Ant 2	Reduced	27710	2310	21.81	23.00	1.315	0.09	1.630	2.144
	LTE Band 30	10M	QPSK	50	0	-	Bottom Side	0mm	Ant 2	Reduced	27710	2310	21.61	23.00	1.377	-0.14	1.620	2.231
	LTE Band 30	10M	QPSK	1	0	-	Front	2mm	Ant 2	Full	27710	2310	22.76	24.00	1.330	0.08	1.180	1.570
	LTE Band 30	10M	QPSK	1	0	-	Back	4mm	Ant 2	Full	27710	2310	22.76	24.00	1.330	0.06	0.991	1.318
	LTE Band 30	10M	QPSK	1	0	-	Left Side	5mm	Ant 2	Full	27710	2310	22.76	24.00	1.330	-0.05	0.428	0.569
	LTE Band 30	10M	QPSK	1	0	-	Bottom Side	6mm	Ant 2	Full	27710	2310	22.76	24.00	1.330	0.08	0.380	0.506

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Test Position	Gap (mm)	Antenna	Power Reduction	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 10g SAR (W/kg)	Reported 10g SAR (W/kg)
2600MHz																			
	LTE Band 7	20M	QPSK	1	0	Front	0mm	Ant 2	Reduced	21100	2535	21.05	22.00	1.245	-	-	0.10	1.730	2.153
	LTE Band 7	20M	QPSK	1	0	Front	0mm	Ant 2	Reduced	20850	2510	21.01	22.00	1.256	-	-	0.04	2.010	2.525
	LTE Band 7	20M	QPSK	1	0	Front	0mm	Ant 2	Reduced	21350	2560	20.97	22.00	1.268	-	-	-0.11	1.560	1.978
	LTE Band 7	20M	QPSK	50	0	Front	0mm	Ant 2	Reduced	21100	2535	21.00	22.00	1.259	-	-	0.07	1.390	1.750
	LTE Band 7	20M	QPSK	100	0	Front	0mm	Ant 2	Reduced	21100	2535	20.93	22.00	1.279	-	-	0.13	1.550	1.983
	LTE Band 7	20M	QPSK	1	0	Back	0mm	Ant 2	Reduced	21100	2535	21.05	22.00	1.245	-	-	0.02	1.930	2.402
74	LTE Band 7	20M	QPSK	1	0	Back	0mm	Ant 2	Reduced	20850	2510	21.01	22.00	1.256	-	-	0.01	2.150	2.700
	LTE Band 7	20M	QPSK	1	0	Back	0mm	Ant 2	Reduced	21350	2560	20.97	22.00	1.268	-	-	-0.17	1.790	2.269
	LTE Band 7	20M	QPSK	50	0	Back	0mm	Ant 2	Reduced	21100	2535	21.00	22.00	1.259	-	-	-0.13	1.680	2.115
	LTE Band 7	20M	QPSK	50	0	Back	0mm	Ant 2	Reduced	20850	2510	20.85	22.00	1.303	-	-	0.02	1.720	2.241
	LTE Band 7	20M	QPSK	50	0	Back	0mm	Ant 2	Reduced	21350	2560	20.85	22.00	1.303	-	-	0.19	1.270	1.655
	LTE Band 7	20M	QPSK	100	0	Back	0mm	Ant 2	Reduced	21100	2535	20.93	22.00	1.279	-	-	0.04	1.580	2.021
	LTE Band 7	20M	QPSK	1	0	Left Side	0mm	Ant 2	Reduced	21100	2535	21.05	22.00	1.245	-	-	-0.14	1.480	1.842
	LTE Band 7	20M	QPSK	50	0	Left Side	0mm	Ant 2	Reduced	21100	2535	21.00	22.00	1.259	-	-	0.16	1.200	1.511
	LTE Band 7	20M	QPSK	1	0	Bottom Side	0mm	Ant 2	Reduced	21100	2535	21.05	22.00	1.245	-	-	-0.10	1.700	2.116
	LTE Band 7	20M	QPSK	1	0	Bottom Side	0mm	Ant 2	Reduced	20850	2510	21.01	22.00	1.256	-	-	0.07	1.770	2.223
	LTE Band 7	20M	QPSK	1	0	Bottom Side	0mm	Ant 2	Reduced	21350	2560	20.97	22.00	1.268	-	-	-0.06	1.770	2.244
	LTE Band 7	20M	QPSK	50	0	Bottom Side	0mm	Ant 2	Reduced	21100	2535	21.00	22.00	1.259	-	-	0.04	1.380	1.737
	LTE Band 7	20M	QPSK	100	0	Bottom Side	0mm	Ant 2	Reduced	21100	2535	20.93	22.00	1.279	-	-	0.02	1.370	1.753
	LTE Band 7	20M	QPSK	1	0	Front	2mm	Ant 2	Full	21100	2535	22.69	24.00	1.352	-	-	0.09	1.670	2.258
	LTE Band 7	20M	QPSK	1	0	Front	2mm	Ant 2	Full	20850	2510	22.61	24.00	1.377	-	-	0.02	1.550	2.135
	LTE Band 7	20M	QPSK	1	0	Front	2mm	Ant 2	Full	21350	2560	22.58	24.00	1.387	-	-	0.08	1.670	2.316
	LTE Band 7	20M	QPSK	100	0	Front	2mm	Ant 2	Full	21100	2535	21.69	23.00	1.352	-	-	0.01	1.530	2.069
	LTE Band 7	20M	QPSK	1	0	Back	4mm	Ant 2	Full	21100	2535	22.69	24.00	1.352	-	-	0.03	1.630	2.204
	LTE Band 7	20M	QPSK	1	0	Back	4mm	Ant 2	Full	20850	2510	22.61	24.00	1.377	-	-	0.01	1.490	2.052
	LTE Band 7	20M	QPSK	1	0	Back	4mm	Ant 2	Full	21350	2560	22.58	24.00	1.387	-	-	-0.09	1.670	2.316
	LTE Band 7	20M	QPSK	100	0	Back	4mm	Ant 2	Full	21100	2535	21.69	23.00	1.352	-	-	-0.08	1.580	2.136
	LTE Band 7	20M	QPSK	1	0	Left Side	5mm	Ant 2	Full	21100	2535	22.69	24.00	1.352	-	-	0.06	0.683	0.923
	LTE Band 7	20M	QPSK	1	0	Bottom Side	6mm	Ant 2	Full	21350	2560	22.58	24.00	1.387	-	-	0.17	1.040	1.442
	LTE Band 38	20M	QPSK	1	0	Front	0mm	Ant 2	Full	38000	2595	22.75	24.00	1.334	62.9	1.006	0.04	1.120	1.503
	LTE Band 38	20M	QPSK	1	0	Front	0mm	Ant 2	Full	37850	2580	22.64	24.00	1.368	62.9	1.006	0.01	1.180	1.624
	LTE Band 38	20M	QPSK	1	0	Front	0mm	Ant 2	Full	38150	2610	22.60	24.00	1.380	62.9	1.006	-0.05	1.130	1.569
	LTE Band 38	20M	QPSK	50	0	Front	0mm	Ant 2	Full	38000	2595	21.68	23.00	1.355	62.9	1.006	-0.04	0.909	1.239
	LTE Band 38	20M	QPSK	100	0	Front	0mm	Ant 2	Full	38000	2595	21.70	23.00	1.349	62.9	1.006	0.03	0.903	1.225

Sporton International (Kunshan) Inc.

TEL : 86-512-57900158 / FAX : 86-512-57900958

FCC ID : IHDT56AA2

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FCC SAR Test Report

Report No. : FA181714

	LTE Band 38	20M	QPSK	1	0	Back	0mm	Ant 2	Full	38000	2595	22.75	24.00	1.334	62.9	1.006	0.06	1.590	2.133
75	LTE Band 38	20M	QPSK	1	0	Back	0mm	Ant 2	Full	37850	2580	22.64	24.00	1.368	62.9	1.006	0.09	1.620	2.229
	LTE Band 38	20M	QPSK	1	0	Back	0mm	Ant 2	Full	38150	2610	22.60	24.00	1.380	62.9	1.006	0.01	1.590	2.208
	LTE Band 38	20M	QPSK	50	0	Back	0mm	Ant 2	Full	38000	2595	21.68	23.00	1.355	62.9	1.006	-0.06	1.310	1.786
	LTE Band 38	20M	QPSK	50	0	Back	0mm	Ant 2	Full	37850	2580	21.58	23.00	1.387	62.9	1.006	0.03	1.430	1.995
	LTE Band 38	20M	QPSK	50	0	Back	0mm	Ant 2	Full	38150	2610	21.60	23.00	1.380	62.9	1.006	-0.11	1.350	1.875
	LTE Band 38	20M	QPSK	100	0	Back	0mm	Ant 2	Full	38000	2595	21.70	23.00	1.349	62.9	1.006	0.05	1.320	1.791
	LTE Band 38	20M	QPSK	1	0	Left Side	0mm	Ant 2	Full	38000	2595	22.75	24.00	1.334	62.9	1.006	0.04	1.340	1.798
	LTE Band 38	20M	QPSK	1	0	Left Side	0mm	Ant 2	Full	37850	2580	22.64	24.00	1.368	62.9	1.006	0.03	1.370	1.885
	LTE Band 38	20M	QPSK	1	0	Left Side	0mm	Ant 2	Full	38150	2610	22.60	24.00	1.380	62.9	1.006	0.01	1.310	1.819
	LTE Band 38	20M	QPSK	50	0	Left Side	0mm	Ant 2	Full	38000	2595	21.68	23.00	1.355	62.9	1.006	0.05	1.100	1.500
	LTE Band 38	20M	QPSK	50	0	Left Side	0mm	Ant 2	Full	37850	2580	21.58	23.00	1.387	62.9	1.006	0.09	1.150	1.604
	LTE Band 38	20M	QPSK	50	0	Left Side	0mm	Ant 2	Full	38150	2610	21.60	23.00	1.380	62.9	1.006	0.13	1.080	1.500
	LTE Band 38	20M	QPSK	100	0	Left Side	0mm	Ant 2	Full	38000	2595	21.70	23.00	1.349	62.9	1.006	0.02	0.971	1.318
	LTE Band 38	20M	QPSK	1	0	Bottom Side	0mm	Ant 2	Full	38000	2595	22.75	24.00	1.334	62.9	1.006	0.05	1.340	1.798
	LTE Band 38	20M	QPSK	1	0	Bottom Side	0mm	Ant 2	Full	37850	2580	22.64	24.00	1.368	62.9	1.006	-0.05	1.390	1.913
	LTE Band 38	20M	QPSK	1	0	Bottom Side	0mm	Ant 2	Full	38150	2610	22.60	24.00	1.380	62.9	1.006	0.08	1.280	1.777
	LTE Band 38	20M	QPSK	50	0	Bottom Side	0mm	Ant 2	Full	38000	2595	21.68	23.00	1.355	62.9	1.006	0.02	1.110	1.513
	LTE Band 38	20M	QPSK	50	0	Bottom Side	0mm	Ant 2	Full	37850	2580	21.58	23.00	1.387	62.9	1.006	0.03	1.360	1.897
	LTE Band 38	20M	QPSK	50	0	Bottom Side	0mm	Ant 2	Full	38150	2610	21.60	23.00	1.380	62.9	1.006	0.01	1.210	1.680
	LTE Band 38	20M	QPSK	100	0	Bottom Side	0mm	Ant 2	Full	38000	2595	21.70	23.00	1.349	62.9	1.006	0.09	1.110	1.506
	LTE Band 41	20M	QPSK	1	0	Front	0mm	Ant 2	Reduced	40620	2593	21.30	22.50	1.318	62.9	1.006	-0.05	0.941	1.248
	LTE Band 41	20M	QPSK	50	0	Front	0mm	Ant 2	Reduced	40620	2593	21.26	22.50	1.330	62.9	1.006	0.08	0.751	1.005
	LTE Band 41	20M	QPSK	1	0	Back	0mm	Ant 2	Reduced	40620	2593	21.30	22.50	1.318	62.9	1.006	-0.14	1.060	1.406
	LTE Band 41	20M	QPSK	50	0	Back	0mm	Ant 2	Reduced	40620	2593	21.26	22.50	1.330	62.9	1.006	0.16	0.943	1.262
	LTE Band 41	20M	QPSK	1	0	Bottom Side	0mm	Ant 2	Reduced	40620	2593	21.30	22.50	1.318	62.9	1.006	-0.02	1.360	1.804
	LTE Band 41	20M	QPSK	1	0	Bottom Side	0mm	Ant 2	Reduced	39750	2506	21.17	22.50	1.358	62.9	1.006	0.02	1.340	1.831
	LTE Band 41	20M	QPSK	1	0	Bottom Side	0mm	Ant 2	Reduced	40185	2549.5	21.20	22.50	1.349	62.9	1.006	-0.08	1.300	1.764
	LTE Band 41	20M	QPSK	1	0	Bottom Side	0mm	Ant 2	Reduced	41055	2636.5	21.13	22.50	1.371	62.9	1.006	-0.13	1.280	1.765
	LTE Band 41	20M	QPSK	1	0	Bottom Side	0mm	Ant 2	Reduced	41490	2680	20.91	22.50	1.442	62.9	1.006	0.05	1.210	1.755
	LTE Band 41	20M	QPSK	50	0	Bottom Side	0mm	Ant 2	Reduced	40620	2593	21.26	22.50	1.330	62.9	1.006	0.02	1.070	1.432
	LTE Band 41	20M	QPSK	100	0	Bottom Side	0mm	Ant 2	Reduced	40620	2593	21.21	22.50	1.346	62.9	1.006	0.06	0.921	1.247
	LTE Band 41C	20M	QPSK	1	0	Bottom Side	0mm	Ant 2	Reduced	39750+39948	2506+2525.8	20.96	22.50	1.426	62.9	1.006	0.03	1.030	1.477
	LTE Band 41	20M	QPSK	1	0	Front	2mm	Ant 2	Full	40620	2593	22.27	23.50	1.327	62.9	1.006	-0.08	0.721	0.963
	LTE Band 41	20M	QPSK	1	0	Back	4mm	Ant 2	Full	40620	2593	22.27	23.50	1.327	62.9	1.006	0.02	0.633	0.845
	LTE Band 41	20M	QPSK	1	0	Bottom Side	6mm	Ant 2	Full	39750	2506	22.09	23.50	1.384	62.9	1.006	0.09	0.818	1.139
	LTE Band 41_HPUE	20M	QPSK	1	0	Front	0mm	Ant 2	Reduced	40620	2593	24.45	25.50	1.274	42.9	1.009	-0.05	0.992	1.275
	LTE Band 41_HPUE	20M	QPSK	50	0	Front	0mm	Ant 2	Reduced	40620	2593	24.41	25.50	1.285	42.9	1.009	0.08	0.801	1.039
	LTE Band 41_HPUE	20M	QPSK	1	0	Back	0mm	Ant 2	Reduced	40620	2593	24.45	25.50	1.274	42.9	1.009	-0.14	1.120	1.439
	LTE Band 41_HPUE	20M	QPSK	50	0	Back	0mm	Ant 2	Reduced	40620	2593	24.41	25.50	1.285	42.9	1.009	0.16	0.992	1.286
	LTE Band 41_HPUE	20M	QPSK	1	0	Bottom Side	0mm	Ant 2	Reduced	40620	2593	24.45	25.50	1.274	42.9	1.009	-0.02	1.444	1.855
76	LTE Band 41_HPUE	20M	QPSK	1	0	Bottom Side	0mm	Ant 2	Reduced	39750	2506	24.31	25.50	1.315	42.9	1.009	0.02	1.420	1.884
	LTE Band 41_HPUE	20M	QPSK	1	0	Bottom Side	0mm	Ant 2	Reduced	40185	2549.5	24.29	25.50	1.321	42.9	1.009	-0.08	1.380	1.840
	LTE Band 41_HPUE	20M	QPSK	1	0	Bottom Side	0mm	Ant 2	Reduced	41055	2636.5	24.28	25.50	1.324	42.9	1.009	-0.13	1.350	1.804
	LTE Band 41_HPUE	20M	QPSK	1	0	Bottom Side	0mm	Ant 2	Reduced	41490	2680	24.21	25.50	1.346	42.9	1.009	0.05	1.290	1.752
	LTE Band 41_HPUE	20M	QPSK	50	0	Bottom Side	0mm	Ant 2	Reduced	40620	2593	24.41	25.50	1.285	42.9	1.009	0.02	1.140	1.478
	LTE Band 41_HPUE	20M	QPSK	50	0	Bottom Side	0mm	Ant 2	Reduced	39750	2506	24.23	25.50	1.340	42.9	1.009	0.01	1.150	1.554
	LTE Band 41_HPUE	20M	QPSK	50	0	Bottom Side	0mm	Ant 2	Reduced	40185	2549.5	24.24	25.50	1.337	42.9	1.009	-0.04	1.210	1.632
	LTE Band 41_HPUE	20M	QPSK	50	0	Bottom Side	0mm	Ant 2	Reduced	41055	2636.5	24.31	25.50	1.315	42.9	1.009	0.08	1.110	1.473
	LTE Band 41_HPUE	20M	QPSK	50	0	Bottom Side	0mm	Ant 2	Reduced	41490	2680	24.17	25.50	1.358	42.9	1.009	-0.11	1.040	1.425
	LTE Band 41_HPUE	20M	QPSK	100	0	Bottom Side	0mm	Ant 2	Reduced	40620	2593	24.39	25.50	1.291	42.9	1.009	0.06	0.976	1.272
	LTE Band 41_HPUE	20M	QPSK	1	0	Front	2mm	Ant 2	Full	40620	2593	25.26	26.50	1.330	42.9	1.009	0.08	0.831	1.116
	LTE Band 41_HPUE	20M	QPSK	1	0	Back	4mm	Ant 2	Full	40620	2593	25.26	26.50	1.330	42.9	1.009	-0.12	0.774	1.039
	LTE Band 41_HPUE	20M	QPSK	1	0	Bottom Side	6mm	Ant 2	Full	39750	2506	25.03	26.50	1.403	42.9	1.009	0.11	0.981	1.389



Plot No.	Band	Mode	Test Position	Gap (mm)	Antenna	Power Reduction	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 10g SAR (W/kg)	Reported 10g SAR (W/kg)
2450MHz																
77	WLAN2.4GHz	802.11b 1Mbps	Front	0mm	Ant 5	Full	1	2412	21.40	23.00	1.445	99.4	1.006	-0.09	1.580	2.297
	WLAN2.4GHz	802.11b 1Mbps	Front	0mm	Ant 5	Full	6	2437	21.30	23.00	1.479	99.4	1.006	0.03	1.520	2.262
	WLAN2.4GHz	802.11b 1Mbps	Back	0mm	Ant 5	Full	1	2412	21.40	23.00	1.445	99.4	1.006	0.01	0.950	1.381
	WLAN2.4GHz	802.11b 1Mbps	Top Side	0mm	Ant 5	Full	1	2412	21.40	23.00	1.445	99.4	1.006	0.01	1.010	1.469
	WLAN2.4GHz	802.11b 1Mbps	Front	0mm	Ant 5	Simultaneous	1	2412	18.60	20.50	1.549	99.4	1.006	0.03	0.833	1.298
	WLAN2.4GHz	802.11b 1Mbps	Back	0mm	Ant 5	Simultaneous	1	2412	18.60	20.50	1.549	99.4	1.006	0.05	0.501	0.781
	WLAN2.4GHz	802.11b 1Mbps	Top Side	0mm	Ant 5	Simultaneous	1	2412	18.60	20.50	1.549	99.4	1.006	0.09	0.533	0.830
5000MHz																
	WLAN5.2GHz	802.11a 6Mbps	Back	0mm	Ant 6	Full	36	5180	19.56	21.00	1.393	96.97	1.031	-0.09	1.540	2.212
78	WLAN5.2GHz	802.11a 6Mbps	Back	0mm	Ant 6	Full	48	5240	19.53	21.00	1.403	96.97	1.031	-0.03	1.600	2.314
	WLAN5.2GHz	802.11a 6Mbps	Top Side	0mm	Ant 6	Full	36	5180	19.56	21.00	1.393	96.97	1.031	-0.06	0.804	1.155
	WLAN5.2GHz	802.11ac-VHT80 MCS0	Back	0mm	Ant 6	Simultaneous	42	5210	8.79	10.50	1.483	87.65	1.141	0.03	0.221	0.374
	WLAN5.3GHz	802.11a 6Mbps	Front	0mm	Ant 6	Full	52	5260	19.45	21.00	1.428	96.97	1.031	-0.06	0.321	0.472
	WLAN5.3GHz	802.11a 6Mbps	Back	0mm	Ant 6	Full	52	5260	19.45	21.00	1.428	96.97	1.031	-0.07	1.660	2.443
79	WLAN5.3GHz	802.11a 6Mbps	Back	0mm	Ant 6	Full	56	5280	19.31	21.00	1.476	96.97	1.031	0.04	1.920	2.921
	WLAN5.3GHz	802.11a 6Mbps	Right Side	0mm	Ant 6	Full	52	5260	19.45	21.00	1.428	96.97	1.031	0.03	0.067	0.099
	WLAN5.3GHz	802.11a 6Mbps	Top Side	0mm	Ant 6	Full	52	5260	19.45	21.00	1.428	96.97	1.031	0.08	0.784	1.154
	WLAN5.3GHz	802.11a 6Mbps	Top Side	0mm	Ant 6	Full	56	5280	19.31	21.00	1.476	96.97	1.031	0.12	0.859	1.307
	WLAN5.3GHz	802.11ac-VHT80 MCS0	Back	0mm	Ant 6	Simultaneous	58	5290	8.81	10.50	1.476	87.65	1.141	0.04	0.211	0.355
	WLAN5.5GHz	802.11a 6Mbps	Front	0mm	Ant 6	Full	116	5580	20.49	22.00	1.416	96.97	1.031	0.15	0.357	0.521
80	WLAN5.5GHz	802.11a 6Mbps	Back	0mm	Ant 6	Full	116	5580	20.49	22.00	1.416	96.97	1.031	-0.04	2.150	3.138
	WLAN5.5GHz	802.11a 6Mbps	Back	0mm	Ant 6	Full	140	5700	20.46	22.00	1.426	96.97	1.031	0.09	1.860	2.734
	WLAN5.5GHz	802.11a 6Mbps	Right Side	0mm	Ant 6	Full	116	5580	20.49	22.00	1.416	96.97	1.031	0.02	0.060	0.088
	WLAN5.5GHz	802.11a 6Mbps	Top Side	0mm	Ant 6	Full	116	5580	20.49	22.00	1.416	96.97	1.031	0.04	0.897	1.309
	WLAN5.5GHz	802.11a 6Mbps	Top Side	0mm	Ant 6	Full	140	5700	20.46	22.00	1.426	96.97	1.031	0.08	1.480	2.175
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Back	0mm	Ant 6	Simultaneous	122	5610	9.68	11.50	1.521	87.65	1.141	-0.04	0.233	0.404
81	WLAN5.8GHz	802.11n-HT40 MCS0	Back	0mm	Ant 6	Full	159	5795	18.10	20.00	1.548	93.52	1.069	0.01	1.850	3.062
	WLAN5.8GHz	802.11n-HT40 MCS0	Back	0mm	Ant 6	Full	151	5755	18.08	20.00	1.556	93.52	1.069	-0.05	1.740	2.893
	WLAN5.8GHz	802.11n-HT40 MCS0	Top Side	0mm	Ant 6	Full	159	5795	18.10	20.00	1.548	93.52	1.069	0.11	0.729	1.207
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Back	0mm	Ant 6	Simultaneous	155	5775	10.02	11.50	1.406	87.65	1.141	-0.04	0.336	0.539



15.5 Repeated SAR Measurement

<1g>

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Mode	Test Position	Gap (mm)	Antenna	Power Reduction	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Ratio	Reported 1g SAR (W/kg)
1st	LTE Band 14	10M	QPSK	1	0	-	Back	5mm	Ant 1	Full	23330	793	22.64	24.00	1.368	-	-	-0.02	1.050	1	1.436
2nd	LTE Band 14	10M	QPSK	1	0	-	Back	5mm	Ant 1	Full	23330	793	22.64	24.00	1.368	-	-	0.01	0.988	1.063	1.351
1st	WCDMA V	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 1	Reduced	4132	826.4	21.21	22.00	1.199	-	-	0.06	1.160	1	1.391
2nd	WCDMA V	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 1	Reduced	4132	826.4	21.21	22.00	1.199	-	-	0.01	1.010	1.149	1.211
1st	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Bottom Side	5mm	Ant 1	Reduced	1513	1752.6	13.71	15.00	1.346	-	-	-0.03	0.969	1	1.304
2nd	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Bottom Side	5mm	Ant 1	Reduced	1513	1752.6	13.71	15.00	1.346	-	-	-0.01	0.881	1.100	1.186
1st	WCDMA II	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 1	Reduced	9538	1907.6	14.62	15.50	1.225	-	-	-0.09	1.130	1	1.384
2nd	WCDMA II	-	-	-	-	RMC 12.2Kbps	Back	5mm	Ant 1	Reduced	9538	1907.6	14.62	15.50	1.225	-	-	0.03	1.010	1.119	1.237
1st	LTE Band 30	10M	QPSK	1	0	-	Back	5mm	Ant 2	Reduced	27710	2310	19.28	20.50	1.324	-	-	-0.04	0.906	1	1.200
2nd	LTE Band 30	10M	QPSK	1	0	-	Back	5mm	Ant 2	Reduced	27710	2310	19.28	20.50	1.324	-	-	0.01	0.811	1.117	1.074
1st	LTE Band 41_HPUE	20M	QPSK	1	0	-	Bottom Side	5mm	Ant 2	Reduced	41055	2636.5	19.71	21.00	1.346	42.9	1.009	-0.07	1.050	1	1.426
2nd	LTE Band 41_HPUE	20M	QPSK	1	0	-	Bottom Side	5mm	Ant 2	Reduced	41055	2636.5	19.71	21.00	1.346	42.9	1.009	0.01	0.912	1.151	1.238
1st	WLAN2.4GHz	-	-	-	-	802.11b 1Mbps	Front	5mm	Ant 5	Full	1	2412	21.40	23.00	1.445	99.4	1.006	-0.09	0.869	1	1.264
2nd	WLAN2.4GHz	-	-	-	-	802.11b 1Mbps	Front	5mm	Ant 5	Full	1	2412	21.40	23.00	1.445	99.4	1.006	-0.01	0.788	1.103	1.146
1st	WLAN5.8GHz	-	-	-	-	802.11ac-VHT80 MCS0	Back	5mm	Ant 6	Reduced	155	5775	12.51	13.50	1.256	87.65	1.141	0.01	0.808	1	1.158
2nd	WLAN5.8GHz	-	-	-	-	802.11ac-VHT80 MCS0	Back	5mm	Ant 6	Reduced	155	5775	12.51	13.50	1.256	87.65	1.141	0.03	0.755	1.070	1.082

<10g>

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Mode	Test Position	Gap (mm)	Antenna	Power Reduction	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 10g SAR (W/kg)	Ratio	Reported 10g SAR (W/kg)
1st	WCDMA V	-	-	-	-	RMC 12.2Kbps	Front	0mm	Ant 1	Full	4132	826.4	22.72	24.00	1.343	-	-	-0.05	1.630	1	2.189
2nd	WCDMA V	-	-	-	-	RMC 12.2Kbps	Front	0mm	Ant 1	Full	4132	826.4	22.72	24.00	1.343	-	-	0.09	1.570	1.038	2.108
1st	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Bottom Side	0mm	Ant 1	Reduced	1513	1752.6	18.70	20.00	1.349	-	-	-0.01	2.610	1	3.521
2nd	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Bottom Side	0mm	Ant 1	Reduced	1513	1752.6	18.70	20.00	1.349	-	-	0.03	2.490	1.048	3.359
1st	LTE Band 25	20M	QPSK	1	0	-	Bottom Side	0mm	Ant 1	Reduced	26140	1860	19.29	20.50	1.321	-	-	0.03	2.680	1	3.541
2nd	LTE Band 25	20M	QPSK	1	0	-	Bottom Side	0mm	Ant 1	Reduced	26140	1860	19.29	20.50	1.321	-	-	0.03	2.420	1.107	3.198
1st	LTE Band 30	10M	QPSK	1	0	-	Back	0mm	Ant 2	Reduced	27710	2310	21.96	23.00	1.271	-	-	0.03	2.690	1	3.418
2nd	LTE Band 30	10M	QPSK	1	0	-	Back	0mm	Ant 2	Reduced	27710	2310	21.96	23.00	1.271	-	-	0.01	2.550	1.055	3.240
1st	LTE Band 7	20M	QPSK	1	0	-	Back	0mm	Ant 2	Reduced	20850	2510	21.01	22.00	1.256	-	-	0.01	2.150	1	2.700
2nd	LTE Band 7	20M	QPSK	1	0	-	Back	0mm	Ant 2	Reduced	20850	2510	21.01	22.00	1.256	-	-	0.11	2.010	1.070	2.525
1st	WLAN5.5GHz	-	-	-	-	802.11a 6Mbps	Back	0mm	Ant 6	Full	116	5580	20.49	22.00	1.416	96.97	1.031	-0.04	2.150	1	3.138
2nd	WLAN5.5GHz	-	-	-	-	802.11a 6Mbps	Back	0mm	Ant 6	Full	116	5580	20.49	22.00	1.416	96.97	1.031	0.10	2.060	1.044	3.007

General Note:

- Per KDB 865664 D01v01r04, for each frequency band, repeated SAR measurement is required only when the measured SAR is ≥ 0.8 W/kg.
- Per KDB 865664 D01v01r04, if the ratio among the repeated measurement is ≤ 1.2 and the measured SAR < 1.45 W/kg, only one repeated measurement is required.
- Per KDB 865664 D01v01r04, if the extremity repeated SAR is necessary, the same procedures should be adapted for measurements according to extremity and occupational exposure limits by applying a factor of 2.5 for extremity exposure and a factor of 5 for occupational exposure to the corresponding SAR thresholds.
- The ratio is the difference in percentage between original and repeated *measured SAR*.
- All measurement SAR result is scaled-up to account for tune-up tolerance and is compliant.

16. Simultaneous Transmission Analysis

No.	Simultaneous Transmission Configurations	Portable Handset			
		Head	Body-worn	Hotspot	Product specific 10g SAR
1.	WWAN + WLAN2.4GHz	Yes	Yes	Yes	Yes
2.	WWAN + WLAN5GHz	Yes	Yes	Yes	Yes
3.	WWAN + Bluetooth	Yes	Yes	Yes	Yes

General Note:

1. This device supports VoIP in GPRS, EGPRS, WCDMA and LTE (e.g. for 3rd-party VoIP), LTE supports VoLTE operation.
2. EUT will choose each GSM, WCDMA and LTE according to the network signal condition; therefore, they will not operate simultaneously at any moment.
3. This device 2.4GHz WLAN support hotspot operation and Bluetooth support tethering applications.
4. This device 5.2GHz WLAN/5.8GHz WLAN support hotspot operation, and 5.2GHz WLAN/5.8GHz WLAN supports WLAN Direct (GC/GO), and 5.3GHz / 5.5GHz supports WLAN Direct (GC only).
5. WIFI 5.3/5.5GHz has no hotspot function.
6. The worst case 5 GHz WLAN SAR for each configuration was used for SAR summation.
7. WLAN 2.4GHz and Bluetooth share the same antenna so can't transmit simultaneously.
8. According to the EUT characteristic, WLAN 5GHz and Bluetooth can't transmit simultaneously.
9. According to the EUT characteristic, WLAN 5GHz and WLAN 2.4GHz can't transmit simultaneously.
10. The maximum SAR summation is calculated based on the same configuration and test position.
11. Per KDB 447498 D01v06, simultaneous transmission SAR is compliant if,
 - i) 1g Scalar SAR summation < 1.6W/kg and 10g Scalar SAR summation < 4.0W/kg.
 - ii) $SPLSR = (SAR1 + SAR2)^{1.5} / (\text{min. separation distance, mm})$, and the peak separation distance is determined from the square root of $[(x1-x2)^2 + (y1-y2)^2 + (z1-z2)^2]$, where (x1, y1, z1) and (x2, y2, z2) are the coordinates of the extrapolated peak SAR locations in the zoom scan.
 - iii) If $SPLSR \leq 0.04$ for 1g SAR and $SPLSR \leq 0.10$ for 10g SAR, simultaneously transmission SAR measurement is not necessary.
 - iv) Simultaneously transmission SAR measurement, and the reported multi-band 1g SAR < 1.6W/kg and 10g SAR < 4.0W/kg.
 - v) The SPLSR calculated results please refer to section 16.5.



16.1 Head Exposure Conditions

WWAN Band	Exposure Position	1	3	3	4	1+2 Summed 1g SAR (W/kg)	1+3 Summed 1g SAR (W/kg)	1+4 Summed 1g SAR (W/kg)
		WWAN	2.4GHz WLAN Ant 5	5GHz WLAN Ant 6	Bluetooth Ant 5			
		1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)			
GSM850Ant 1	Right Cheek	0.474	0.190	0.250	0.065	0.66	0.72	0.54
	Right Tilted	0.228	0.190	0.250	0.065	0.42	0.48	0.29
	Left Cheek	0.419	0.190	0.250	0.065	0.61	0.67	0.48
	Left Tilted	0.243	0.190	0.250	0.065	0.43	0.49	0.31
GSM1900Ant 1	Right Cheek	0.033	0.190	0.250	0.065	0.22	0.28	0.10
	Right Tilted	0.024	0.190	0.250	0.065	0.21	0.27	0.09
	Left Cheek	0.061	0.190	0.250	0.065	0.25	0.31	0.13
	Left Tilted	0.026	0.190	0.250	0.065	0.22	0.28	0.09
WCDMA IIAnt 1	Right Cheek	0.081	0.190	0.250	0.065	0.27	0.33	0.15
	Right Tilted	0.068	0.190	0.250	0.065	0.26	0.32	0.13
	Left Cheek	0.144	0.190	0.250	0.065	0.33	0.39	0.21
	Left Tilted	0.080	0.190	0.250	0.065	0.27	0.33	0.15
WCDMA IVAnt 1	Right Cheek	0.117	0.190	0.250	0.065	0.31	0.37	0.18
	Right Tilted	0.082	0.190	0.250	0.065	0.27	0.33	0.15
	Left Cheek	0.146	0.190	0.250	0.065	0.34	0.40	0.21
	Left Tilted	0.109	0.190	0.250	0.065	0.30	0.36	0.17
WCDMA VAnt 1	Right Cheek	0.442	0.190	0.250	0.065	0.63	0.69	0.51
	Right Tilted	0.179	0.190	0.250	0.065	0.37	0.43	0.24
	Left Cheek	0.385	0.190	0.250	0.065	0.58	0.64	0.45
	Left Tilted	0.258	0.190	0.250	0.065	0.45	0.51	0.32
WCDMA VAnt 3	Right Cheek	1.332	0.190	0.250	0.065	1.52	1.58	1.40
	Right Tilted	0.839	0.190	0.250	0.065	1.03	1.09	0.90
	Left Cheek	1.325	0.190	0.250	0.065	1.52	1.58	1.39
	Left Tilted	0.878	0.190	0.250	0.065	1.07	1.13	0.94
LTE Band 7Ant 2	Right Cheek	0.197	0.190	0.250	0.065	0.39	0.45	0.26
	Right Tilted	0.195	0.190	0.250	0.065	0.39	0.45	0.26
	Left Cheek	0.471	0.190	0.250	0.065	0.66	0.72	0.54
	Left Tilted	0.183	0.190	0.250	0.065	0.37	0.43	0.25
LTE Band 12Ant 1	Right Cheek	0.276	0.190	0.250	0.065	0.47	0.53	0.34
	Right Tilted	0.111	0.190	0.250	0.065	0.30	0.36	0.18
	Left Cheek	0.266	0.190	0.250	0.065	0.46	0.52	0.33
	Left Tilted	0.123	0.190	0.250	0.065	0.31	0.37	0.19
LTE Band 12Ant 3	Right Cheek	1.111	0.190	0.250	0.065	1.30	1.36	1.18
	Right Tilted	0.774	0.190	0.250	0.065	0.96	1.02	0.84
	Left Cheek	1.070	0.190	0.250	0.065	1.26	1.32	1.14
	Left Tilted	0.659	0.190	0.250	0.065	0.85	0.91	0.72
LTE Band 13Ant 1	Right Cheek	0.329	0.190	0.250	0.065	0.52	0.58	0.39
	Right Tilted	0.144	0.190	0.250	0.065	0.33	0.39	0.21
	Left Cheek	0.287	0.190	0.250	0.065	0.48	0.54	0.35
	Left Tilted	0.161	0.190	0.250	0.065	0.35	0.41	0.23
LTE Band 13Ant 3	Right Cheek	0.855	0.190	0.250	0.065	1.05	1.11	0.92
	Right Tilted	0.524	0.190	0.250	0.065	0.71	0.77	0.59
	Left Cheek	0.715	0.190	0.250	0.065	0.91	0.97	0.78
	Left Tilted	0.472	0.190	0.250	0.065	0.66	0.72	0.54
LTE Band 14Ant 1	Right Cheek	0.358	0.190	0.250	0.065	0.55	0.61	0.42
	Right Tilted	0.163	0.190	0.250	0.065	0.35	0.41	0.23
	Left Cheek	0.310	0.190	0.250	0.065	0.50	0.56	0.38
	Left Tilted	0.126	0.190	0.250	0.065	0.32	0.38	0.19
LTE Band 14Ant 3	Right Cheek	0.798	0.190	0.250	0.065	0.99	1.05	0.86
	Right Tilted	0.505	0.190	0.250	0.065	0.70	0.76	0.57



	Left Cheek	0.708	0.190	0.250	0.065	0.90	0.96	0.77
	Left Tilted	0.453	0.190	0.250	0.065	0.64	0.70	0.52
LTE Band 25Ant 1	Right Cheek	0.080	0.190	0.250	0.065	0.27	0.33	0.15
	Right Tilted	0.063	0.190	0.250	0.065	0.25	0.31	0.13
	Left Cheek	0.135	0.190	0.250	0.065	0.33	0.39	0.20
	Left Tilted	0.088	0.190	0.250	0.065	0.28	0.34	0.15
LTE Band 26Ant 1	Right Cheek	0.340	0.190	0.250	0.065	0.53	0.59	0.41
	Right Tilted	0.136	0.190	0.250	0.065	0.33	0.39	0.20
	Left Cheek	0.314	0.190	0.250	0.065	0.50	0.56	0.38
	Left Tilted	0.144	0.190	0.250	0.065	0.33	0.39	0.21
LTE Band 26Ant 3	Right Cheek	1.217	0.190	0.250	0.065	1.41	1.47	1.28
	Right Tilted	0.835	0.190	0.250	0.065	1.03	1.09	0.90
	Left Cheek	1.175	0.190	0.250	0.065	1.37	1.43	1.24
	Left Tilted	0.725	0.190	0.250	0.065	0.92	0.98	0.79
LTE Band 30Ant 2	Right Cheek	0.170	0.190	0.250	0.065	0.36	0.42	0.24
	Right Tilted	0.149	0.190	0.250	0.065	0.34	0.40	0.21
	Left Cheek	0.350	0.190	0.250	0.065	0.54	0.60	0.42
	Left Tilted	0.194	0.190	0.250	0.065	0.38	0.44	0.26
LTE Band 66Ant 1	Right Cheek	0.116	0.190	0.250	0.065	0.31	0.37	0.18
	Right Tilted	0.075	0.190	0.250	0.065	0.27	0.33	0.14
	Left Cheek	0.123	0.190	0.250	0.065	0.31	0.37	0.19
	Left Tilted	0.083	0.190	0.250	0.065	0.27	0.33	0.15
LTE Band 71Ant 1	Right Cheek	0.346	0.190	0.250	0.065	0.54	0.60	0.41
	Right Tilted	0.133	0.190	0.250	0.065	0.32	0.38	0.20
	Left Cheek	0.305	0.190	0.250	0.065	0.50	0.56	0.37
	Left Tilted	0.135	0.190	0.250	0.065	0.33	0.39	0.20
LTE Band 71Ant 3	Right Cheek	0.440	0.190	0.250	0.065	0.63	0.69	0.51
	Right Tilted	0.281	0.190	0.250	0.065	0.47	0.53	0.35
	Left Cheek	0.358	0.190	0.250	0.065	0.55	0.61	0.42
	Left Tilted	0.243	0.190	0.250	0.065	0.43	0.49	0.31
LTE Band 41_HPUEAnt 2	Right Cheek	0.134	0.190	0.250	0.065	0.32	0.38	0.20
	Right Tilted	0.130	0.190	0.250	0.065	0.32	0.38	0.20
	Left Cheek	0.298	0.190	0.250	0.065	0.49	0.55	0.36
	Left Tilted	0.114	0.190	0.250	0.065	0.30	0.36	0.18
LTE Band 41Ant 2	Right Cheek	0.101	0.182	0.250	0.065	0.28	0.35	0.17
	Right Tilted	0.097	0.182	0.250	0.065	0.28	0.35	0.16
	Left Cheek	0.223	0.182	0.250	0.065	0.41	0.47	0.29
	Left Tilted	0.085	0.182	0.250	0.065	0.27	0.34	0.15
LTE Band 38Ant 2	Right Cheek	0.166	0.182	0.250	0.065	0.35	0.42	0.23
	Right Tilted	0.150	0.182	0.250	0.065	0.33	0.40	0.22
	Left Cheek	0.259	0.182	0.250	0.065	0.44	0.51	0.32
	Left Tilted	0.091	0.182	0.250	0.065	0.27	0.34	0.16



16.2 Hotspot Exposure Conditions

WWAN Band	Exposure Position	1	2	3	4	1+2 Summed 1g SAR (W/kg)	1+3 Summed 1g SAR (W/kg)	1+4 Summed 1g SAR (W/kg)	Case No.
		WWAN 1g SAR (W/kg)	2.4GHz WLAN Ant 5 1g SAR (W/kg)	5GHz WLAN Ant 6 1g SAR (W/kg)	Bluetooth Ant 5 1g SAR (W/kg)				
GSM850Ant 1	Front	0.835	0.662	0.096	0.020	1.50	0.93	0.86	
	Back	1.369	0.558	0.724	0.020	1.93	2.09	1.39	1&2
	Left side	0.258			0.020	0.26	0.26	0.28	
	Right side	0.550	0.357	0.066	0.020	0.91	0.62	0.57	
	Top side		0.611	0.245	0.020	0.61	0.25	0.02	
	Bottom side	1.049			0.020	1.05	1.05	1.07	
GSM1900Ant 1	Front	0.579	0.662	0.096	0.020	1.24	0.68	0.60	
	Back	1.291	0.558	0.724	0.020	1.85	2.02	1.31	3&4
	Left side	0.066			0.020	0.07	0.07	0.09	
	Right side	0.027	0.357	0.066	0.020	0.38	0.09	0.05	
	Top side		0.611	0.245	0.020	0.61	0.25	0.02	
	Bottom side	1.350			0.020	1.35	1.35	1.37	
WCDMA IIAnt 1	Front	0.668	0.662	0.096	0.020	1.33	0.76	0.69	
	Back	1.384	0.558	0.724	0.020	1.94	2.11	1.40	5&6
	Left side	0.081			0.020	0.08	0.08	0.10	
	Right side	0.033	0.357	0.066	0.020	0.39	0.10	0.05	
	Top side		0.611	0.245	0.020	0.61	0.25	0.02	
	Bottom side	1.404			0.020	1.40	1.40	1.42	
WCDMA IVAnt 1	Front	0.683	0.662	0.096	0.020	1.35	0.78	0.70	
	Back	1.256	0.558	0.724	0.020	1.81	1.98	1.28	7&8
	Left side	0.073			0.020	0.07	0.07	0.09	
	Right side	0.044	0.357	0.066	0.020	0.40	0.11	0.06	
	Top side		0.611	0.245	0.020	0.61	0.25	0.02	
	Bottom side	1.304			0.020	1.30	1.30	1.32	
WCDMA VAnt 1	Front	0.926	0.662	0.096	0.020	1.59	1.02	0.95	
	Back	1.391	0.558	0.724	0.020	1.95	2.12	1.41	9&10
	Left side	0.226			0.020	0.23	0.23	0.25	
	Right side	0.523	0.357	0.066	0.020	0.88	0.59	0.54	
	Top side		0.611	0.245	0.020	0.61	0.25	0.02	
	Bottom side	0.920			0.020	0.92	0.92	0.94	
WCDMA VAnt 3	Front	0.537	0.662	0.096	0.020	1.20	0.63	0.56	
	Back	0.852	0.558	0.724	0.020	1.41	1.58	0.87	
	Left side	0.136			0.020	0.14	0.14	0.16	
	Right side		0.357	0.066	0.020	0.36	0.07	0.02	
	Top side	0.381	0.611	0.245	0.020	0.99	0.63	0.40	
	Bottom side				0.020	0.00	0.00	0.02	
LTE Band 7Ant 2	Front	0.991	0.662	0.096	0.020	1.65	1.09	1.01	11
	Back	1.238	0.558	0.724	0.020	1.80	1.96	1.26	12&13
	Left side	0.513			0.020	0.51	0.51	0.53	
	Right side		0.357	0.066	0.020	0.36	0.07	0.02	
	Top side		0.611	0.245	0.020	0.61	0.25	0.02	
	Bottom side	0.746			0.020	0.75	0.75	0.77	
LTE Band 12Ant 1	Front	0.735	0.662	0.096	0.020	1.40	0.83	0.76	
	Back	1.188	0.558	0.724	0.020	1.75	1.91	1.21	14&15
	Left side	0.301			0.020	0.30	0.30	0.32	
	Right side	0.492	0.357	0.066	0.020	0.85	0.56	0.51	
	Top side		0.611	0.245	0.020	0.61	0.25	0.02	
	Bottom side	0.660			0.020	0.66	0.66	0.68	
LTE Band 12Ant	Front	0.299	0.662	0.096	0.020	0.96	0.40	0.32	



3	Back	0.486	0.558	0.724	0.020	1.04	1.21	0.51	
	Left side	0.182			0.020	0.18	0.18	0.20	
	Right side		0.357	0.066	0.020	0.36	0.07	0.02	
	Top side	0.232	0.611	0.245	0.020	0.84	0.48	0.25	
	Bottom side				0.020	0.00	0.00	0.02	
LTE Band 13Ant 1	Front	1.025	0.662	0.096	0.020	1.69	1.12	1.05	16
	Back	1.414	0.558	0.724	0.020	1.97	2.14	1.43	17&18
	Left side	0.289			0.020	0.29	0.29	0.31	
	Right side	0.587	0.357	0.066	0.020	0.94	0.65	0.61	
	Top side		0.611	0.245	0.020	0.61	0.25	0.02	
LTE Band 13Ant 3	Bottom side	0.822			0.020	0.82	0.82	0.84	
	Front	0.296	0.662	0.096	0.020	0.96	0.39	0.32	
	Back	0.424	0.558	0.724	0.020	0.98	1.15	0.44	
	Left side	0.171			0.020	0.17	0.17	0.19	
	Right side		0.357	0.066	0.020	0.36	0.07	0.02	
LTE Band 14Ant 1	Top side	0.216	0.611	0.245	0.020	0.83	0.46	0.24	
	Bottom side				0.020	0.00	0.00	0.02	
	Front	1.134	0.662	0.096	0.020	1.80	1.23	1.15	19
	Back	1.436	0.558	0.724	0.020	1.99	2.16	1.46	20&21
	Left side	0.305			0.020	0.31	0.31	0.33	
LTE Band 14Ant 3	Right side	0.629	0.357	0.066	0.020	0.99	0.70	0.65	
	Top side		0.611	0.245	0.020	0.61	0.25	0.02	
	Bottom side	0.920			0.020	0.92	0.92	0.94	
	Front	0.302	0.662	0.096	0.020	0.96	0.40	0.32	
	Back	0.429	0.558	0.724	0.020	0.99	1.15	0.45	
LTE Band 25Ant 1	Left side	0.168			0.020	0.17	0.17	0.19	
	Right side		0.357	0.066	0.020	0.36	0.07	0.02	
	Top side	0.222	0.611	0.245	0.020	0.83	0.47	0.24	
	Bottom side				0.020	0.00	0.00	0.02	
	Front	0.656	0.662	0.096	0.020	1.32	0.75	0.68	
LTE Band 26Ant 1	Back	1.249	0.558	0.724	0.020	1.81	1.97	1.27	22&23
	Left side	0.059			0.020	0.06	0.06	0.08	
	Right side	0.026	0.357	0.066	0.020	0.38	0.09	0.05	
	Top side		0.611	0.245	0.020	0.61	0.25	0.02	
	Bottom side	1.261			0.020	1.26	1.26	1.28	
LTE Band 26Ant 3	Front	0.817	0.662	0.096	0.020	1.48	0.91	0.84	
	Back	1.274	0.558	0.724	0.020	1.83	2.00	1.29	24&25
	Left side	0.159			0.020	0.16	0.16	0.18	
	Right side	0.374	0.357	0.066	0.020	0.73	0.44	0.39	
	Top side		0.611	0.245	0.020	0.61	0.25	0.02	
LTE Band 30Ant 2	Bottom side	0.653			0.020	0.65	0.65	0.67	
	Front	0.352	0.662	0.096	0.020	1.01	0.45	0.37	
	Back	0.530	0.558	0.724	0.020	1.09	1.25	0.55	
	Left side	0.104			0.020	0.10	0.10	0.12	
	Right side		0.357	0.066	0.020	0.36	0.07	0.02	
LTE Band 66Ant 1	Top side	0.330	0.611	0.245	0.020	0.94	0.58	0.35	
	Bottom side				0.020	0.00	0.00	0.02	
	Front	0.891	0.662	0.096	0.020	1.55	0.99	0.91	
	Back	1.200	0.558	0.724	0.020	1.76	1.92	1.22	26&27
	Left side	0.665			0.020	0.67	0.67	0.69	
LTE Band 66Ant 1	Right side		0.357	0.066	0.020	0.36	0.07	0.02	
	Top side		0.611	0.245	0.020	0.61	0.25	0.02	
	Bottom side	0.665			0.020	0.67	0.67	0.69	
LTE Band 66Ant 1	Front	0.643	0.662	0.096	0.020	1.31	0.74	0.66	
	Back	1.227	0.558	0.724	0.020	1.79	1.95	1.25	28&29
	Left side	0.046			0.020	0.05	0.05	0.07	



	Right side	0.033	0.357	0.066	0.020	0.39	0.10	0.05	
	Top side		0.611	0.245	0.020	0.61	0.25	0.02	
	Bottom side	1.267			0.020	1.27	1.27	1.29	
LTE Band 71Ant 1	Front	0.724	0.662	0.096	0.020	1.39	0.82	0.74	
	Back	0.981	0.558	0.724	0.020	1.54	1.71	1.00	30
	Left side	0.504			0.020	0.50	0.50	0.52	
	Right side	0.789	0.357	0.066	0.020	1.15	0.86	0.81	
	Top side		0.611	0.245	0.020	0.61	0.25	0.02	
	Bottom side	0.591			0.020	0.59	0.59	0.61	
LTE Band 71Ant 3	Front	0.130	0.662	0.096	0.020	0.79	0.23	0.15	
	Back	0.207	0.558	0.724	0.020	0.77	0.93	0.23	
	Left side	0.151			0.020	0.15	0.15	0.17	
	Right side		0.357	0.066	0.020	0.36	0.07	0.02	
	Top side	0.104	0.611	0.245	0.020	0.72	0.35	0.12	
	Bottom side				0.020	0.00	0.00	0.02	
LTE Band 41_HPUEAnt 2	Front	1.020	0.662	0.096	0.020	1.68	1.12	1.04	31
	Back	1.260	0.558	0.724	0.020	1.82	1.98	1.28	32&33
	Left side	0.386			0.020	0.39	0.39	0.41	
	Right side		0.357	0.066	0.020	0.36	0.07	0.02	
	Top side		0.611	0.245	0.020	0.61	0.25	0.02	
	Bottom side	1.426			0.020	1.43	1.43	1.45	
LTE Band 41_Ant 2	Front	0.598	0.662	0.096	0.020	1.26	0.69	0.62	
	Back	0.848	0.558	0.724	0.020	1.41	1.57	0.87	
	Left side	0.252			0.020	0.25	0.25	0.27	
	Right side		0.357	0.066	0.020	0.36	0.07	0.02	
	Top side		0.611	0.245	0.020	0.61	0.25	0.02	
	Bottom side	0.989			0.020	0.99	0.99	1.01	
LTE Band 38_Ant 2	Front	0.967	0.662	0.096	0.020	1.63	1.06	0.99	39
	Back	1.299	0.558	0.724	0.020	1.86	2.02	1.32	40&41
	Left side	0.455			0.020	0.46	0.46	0.48	
	Right side		0.357	0.066	0.020	0.36	0.07	0.02	
	Top side		0.611	0.245	0.020	0.61	0.25	0.02	
	Bottom side	1.372			0.020	1.37	1.37	1.39	



16.3 Body-Worn Accessory Exposure Conditions

WWAN Band	Exposure Position	1	2	3	4	1+2 Summed 1g SAR (W/kg)	1+3 Summed 1g SAR (W/kg)	1+4 Summed 1g SAR (W/kg)	SPLSR
		WWAN 1g SAR (W/kg)	2.4GHz WLAN Ant 5 1g SAR (W/kg)	5GHz WLAN Ant 6 1g SAR (W/kg)	Bluetooth Ant 5 1g SAR (W/kg)				
GSM850Ant 1	Front	0.835	0.662	0.096	0.02	1.50	0.93	0.86	
	Back	1.369	0.558	0.724	0.02	1.93	2.09	1.39	1&2
GSM1900Ant 1	Front	0.579	0.662	0.096	0.02	1.24	0.68	0.60	
	Back	1.291	0.558	0.724	0.02	1.85	2.02	1.31	3&4
WCDMA IIAnt 1	Front	0.668	0.662	0.096	0.02	1.33	0.76	0.69	
	Back	1.384	0.558	0.724	0.02	1.94	2.11	1.40	5&6
WCDMA IVAnt 1	Front	0.683	0.662	0.096	0.02	1.35	0.78	0.70	
	Back	1.256	0.558	0.724	0.02	1.81	1.98	1.28	7&8
WCDMA VAnt 1	Front	0.926	0.662	0.096	0.02	1.59	1.02	0.95	
	Back	1.391	0.558	0.724	0.02	1.95	2.12	1.41	9&10
WCDMA VAnt 3	Front	0.537	0.662	0.096	0.02	1.20	0.63	0.56	
	Back	0.852	0.558	0.724	0.02	1.41	1.58	0.87	
LTE Band 7Ant 2	Front	0.991	0.662	0.096	0.02	1.65	1.09	1.01	11
	Back	1.238	0.558	0.724	0.02	1.80	1.96	1.26	12&13
LTE Band 12Ant 1	Front	0.735	0.662	0.096	0.02	1.40	0.83	0.76	
	Back	1.188	0.558	0.724	0.02	1.75	1.91	1.21	14&15
LTE Band 12Ant 3	Front	0.299	0.662	0.096	0.02	0.96	0.40	0.32	
	Back	0.486	0.558	0.724	0.02	1.04	1.21	0.51	
LTE Band 13Ant 1	Front	1.025	0.662	0.096	0.02	1.69	1.12	1.05	16
	Back	1.414	0.558	0.724	0.02	1.97	2.14	1.43	17&18
LTE Band 13Ant 3	Front	0.296	0.662	0.096	0.02	0.96	0.39	0.32	
	Back	0.424	0.558	0.724	0.02	0.98	1.15	0.44	
LTE Band 14Ant 1	Front	1.134	0.662	0.096	0.02	1.80	1.23	1.15	19
	Back	1.436	0.558	0.724	0.02	1.99	2.16	1.46	20&21
LTE Band 14Ant 3	Front	0.302	0.662	0.096	0.02	0.96	0.40	0.32	
	Back	0.429	0.558	0.724	0.02	0.99	1.15	0.45	
LTE Band 25Ant 1	Front	0.656	0.662	0.096	0.02	1.32	0.75	0.68	
	Back	1.249	0.558	0.724	0.02	1.81	1.97	1.27	22&23
LTE Band 26Ant 1	Front	0.817	0.662	0.096	0.02	1.48	0.91	0.84	
	Back	1.274	0.558	0.724	0.02	1.83	2.00	1.29	24&25
LTE Band 26Ant 3	Front	0.352	0.662	0.096	0.02	1.01	0.45	0.37	
	Back	0.530	0.558	0.724	0.02	1.09	1.25	0.55	
LTE Band 30Ant 2	Front	0.891	0.662	0.096	0.02	1.55	0.99	0.91	
	Back	1.200	0.558	0.724	0.02	1.76	1.92	1.22	26&27
LTE Band 66Ant 1	Front	0.643	0.662	0.096	0.02	1.31	0.74	0.66	
	Back	1.227	0.558	0.724	0.02	1.79	1.95	1.25	28&29
LTE Band 71Ant 1	Front	0.724	0.662	0.096	0.02	1.39	0.82	0.74	
	Back	0.981	0.558	0.724	0.02	1.54	1.71	1.00	30
LTE Band 71Ant 3	Front	0.130	0.662	0.096	0.02	0.79	0.23	0.15	
	Back	0.207	0.558	0.724	0.02	0.77	0.93	0.23	
LTE Band 41_HPUEAnt 2	Front	1.020	0.662	0.096	0.02	1.68	1.12	1.04	31
	Back	1.260	0.558	0.724	0.02	1.82	1.98	1.28	32&33
LTE Band 41_Ant 2	Front	0.598	0.662	0.096	0.02	1.26	0.69	0.62	
	Back	0.848	0.558	0.724	0.02	1.41	1.57	0.87	
LTE Band 38_Ant 2	Front	0.967	0.662	0.096	0.020	1.63	1.06	0.99	39
	Back	1.299	0.558	0.724	0.020	1.86	2.02	1.32	40&41



<Sensor off>

WWAN Band	Exposure Position	1	2	3	4	1+2 Summed 1g SAR (W/kg)	1+3 Summed 1g SAR (W/kg)	1+4 Summed 1g SAR (W/kg)	Case No.
		WWAN	2.4GHz WLAN Ant 5	5GHz WLAN Ant 6	Bluetooth Ant 5				
		1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)				
GSM850Ant 1	Front at 19mm	0.347	0.662	0.174	0.02	1.01	0.52	0.37	
	Back at 22mm	0.321	0.558	1.130	0.02	0.88	1.45	0.34	
GSM1900Ant 1	Front at 19mm	0.320	0.662	0.174	0.02	0.98	0.49	0.34	
	Back at 22mm	0.439	0.558	1.130	0.02	1.00	1.57	0.46	
WCDMA IIAnt 1	Front at 19mm	0.639	0.662	0.174	0.02	1.30	0.81	0.66	
	Back at 22mm	0.993	0.558	1.130	0.02	1.55	2.12	1.01	36
WCDMA IVAnt 1	Front at 19mm	0.660	0.662	0.174	0.02	1.32	0.83	0.68	
	Back at 22mm	0.438	0.558	1.130	0.02	1.00	1.57	0.46	
WCDMA VAnt 1	Front at 19mm	0.395	0.662	0.174	0.02	1.06	0.57	0.42	
	Back at 22mm	0.301	0.558	1.130	0.02	0.86	1.43	0.32	
LTE Band 7Ant 2	Front at 19mm	0.459	0.662	0.174	0.02	1.12	0.63	0.48	
	Back at 22mm	0.486	0.558	1.130	0.02	1.04	1.62	0.51	37
LTE Band 25Ant 1	Front at 19mm	0.521	0.662	0.174	0.02	1.18	0.70	0.54	
	Back at 22mm	0.825	0.558	1.130	0.02	1.38	1.96	0.85	38
LTE Band 26Ant 1	Front at 19mm	0.331	0.662	0.174	0.02	0.99	0.51	0.35	
	Back at 22mm	0.354	0.558	1.130	0.02	0.91	1.48	0.37	
LTE Band 30Ant 2	Front at 19mm	0.213	0.662	0.174	0.02	0.88	0.39	0.23	
	Back at 22mm	0.169	0.558	1.130	0.02	0.73	1.30	0.19	
LTE Band 66Ant 1	Front at 19mm	0.541	0.662	0.174	0.02	1.20	0.72	0.56	
	Back at 22mm	0.395	0.558	1.130	0.02	0.95	1.53	0.42	
LTE Band 41_HPUEAnt 2	Front at 19mm	0.374	0.662	0.174	0.02	1.04	0.55	0.39	
	Back at 22mm	0.327	0.558	1.130	0.02	0.89	1.46	0.35	
LTE Band 41_Ant 2	Front at 19mm	0.274	0.662	0.174	0.02	0.94	0.45	0.29	
	Back at 22mm	0.262	0.558	1.130	0.02	0.82	1.39	0.28	
LTE Band 38Ant 2	Front at 19mm	0.387	0.662	0.174	0.02	1.05	0.56	0.41	
	Back at 22mm	0.351	0.558	1.130	0.02	0.91	1.48	0.37	



16.4 Product Specific Exposure Conditions

WWAN Band	Exposure Position	1	2	3	1+2 Summed 10g SAR (W/kg)	1+3 Summed 10g SAR (W/kg)	Case No.
		WWAN	2.4GHz WLAN Ant 5	5GHz WLAN Ant 6			
		10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)			
GSM850Ant 1	Front	1.734	1.298	0.539	3.03	2.27	
	Back	1.708	0.781	0.539	2.49	2.25	
	Left side				0.00	0.00	
	Right side			0.539	0.00	0.54	
	Top side		0.830	0.539	0.83	0.54	
	Bottom side	0.950			0.95	0.95	
GSM1900Ant 1	Front	2.683	1.298	0.539	3.98	3.22	
	Back	2.558	0.781	0.539	3.34	3.10	
	Left side				0.00	0.00	
	Right side			0.539	0.00	0.54	
	Top side		0.830	0.539	0.83	0.54	
	Bottom side	3.551			3.55	3.55	
WCDMA IIAnt 1	Front	2.442	1.298	0.539	3.74	2.98	
	Back	2.515	0.781	0.539	3.30	3.05	
	Left side				0.00	0.00	
	Right side			0.539	0.00	0.54	
	Top side		0.830	0.539	0.83	0.54	
	Bottom side	3.411			3.41	3.41	
WCDMA IVAnt 1	Front	2.185	1.298	0.539	3.48	2.72	
	Back	2.765	0.781	0.539	3.55	3.30	
	Left side				0.00	0.00	
	Right side			0.539	0.00	0.54	
	Top side		0.830	0.539	0.83	0.54	
	Bottom side	3.521			3.52	3.52	
WCDMA VAnt 1	Front	2.189	1.298	0.539	3.49	2.73	
	Back	1.818	0.781	0.539	2.60	2.36	
	Left side				0.00	0.00	
	Right side			0.539	0.00	0.54	
	Top side		0.830	0.539	0.83	0.54	
	Bottom side	1.911			1.91	1.91	
LTE Band 7Ant 2	Front	2.525	1.298	0.539	3.82	3.06	
	Back	2.700	0.781	0.539	3.48	3.24	
	Left side	1.842			1.84	1.84	
	Right side			0.539	0.00	0.54	
	Top side		0.830	0.539	0.83	0.54	
	Bottom side	2.244			2.24	2.24	
LTE Band 13Ant 1	Front		1.298	0.539	1.30	0.54	
	Back	1.565	0.781	0.539	2.35	2.10	
	Left side				0.00	0.00	
	Right side			0.539	0.00	0.54	
	Top side		0.830	0.539	0.83	0.54	
	Bottom side				0.00	0.00	
LTE Band 14Ant 1	Front		1.298	0.539	1.30	0.54	
	Back	1.305	0.781	0.539	2.09	1.84	
	Left side				0.00	0.00	
	Right side			0.539	0.00	0.54	
	Top side		0.830	0.539	0.83	0.54	
	Bottom side				0.00	0.00	
LTE Band 25Ant 1	Front	2.748	1.298	0.539	4.05	3.29	34



	Back	2.662	0.781	0.539	3.44	3.20	
	Left side				0.00	0.00	
	Right side			0.539	0.00	0.54	
	Top side		0.830	0.539	0.83	0.54	
	Bottom side	3.541			3.54	3.54	
LTE Band 26Ant 1	Front		1.298	0.539	1.30	0.54	
	Back	1.949	0.781	0.539	2.73	2.49	
	Left side				0.00	0.00	
	Right side			0.539	0.00	0.54	
	Top side		0.830	0.539	0.83	0.54	
LTE Band 30Ant 2	Bottom side				0.00	0.00	
	Front	2.643	1.298	0.539	3.94	3.18	
	Back	3.418	0.781	0.539	4.20	3.96	35
	Left side	2.236			2.24	2.24	
	Right side			0.539	0.00	0.54	
LTE Band 66Ant 1	Top side		0.830	0.539	0.83	0.54	
	Bottom side	2.312			2.31	2.31	
	Front	1.920	1.298	0.539	3.22	2.46	
	Back	2.565	0.781	0.539	3.35	3.10	
	Left side				0.00	0.00	
LTE Band 38Ant 2	Right side			0.539	0.00	0.54	
	Top side		0.830	0.539	0.83	0.54	
	Bottom side	3.439			3.44	3.44	
	Front	1.624	1.298	0.539	2.92	2.16	
	Back	2.229	0.781	0.539	3.01	2.77	
LTE Band 41_HPUEAnt 2	Left side	1.885			1.89	1.89	
	Right side			0.539	0.00	0.54	
	Top side		0.830	0.539	0.83	0.54	
	Bottom side	1.913			1.91	1.91	
	Front	1.275	1.298	0.539	2.57	1.81	
LTE Band 41_Ant 2	Back	1.439	0.781	0.539	2.22	1.98	
	Left side				0.00	0.00	
	Right side			0.539	0.00	0.54	
	Top side		0.830	0.539	0.83	0.54	
	Bottom side	1.884			1.88	1.88	
LTE Band 41_Ant 2	Front	1.248	1.298	0.539	2.55	1.79	
	Back	1.406	0.781	0.539	2.19	1.95	
	Left side				0.00	0.00	
	Right side			0.539	0.00	0.54	
	Top side		0.830	0.539	0.83	0.54	
LTE Band 41_Ant 2	Bottom side	1.831			1.83	1.83	

Remark:

1. For Bluetooth Product specific 10g stand-alone SAR is not required for a transmitter or antenna, due to 1g hotspot SAR is <1.2W/kg.



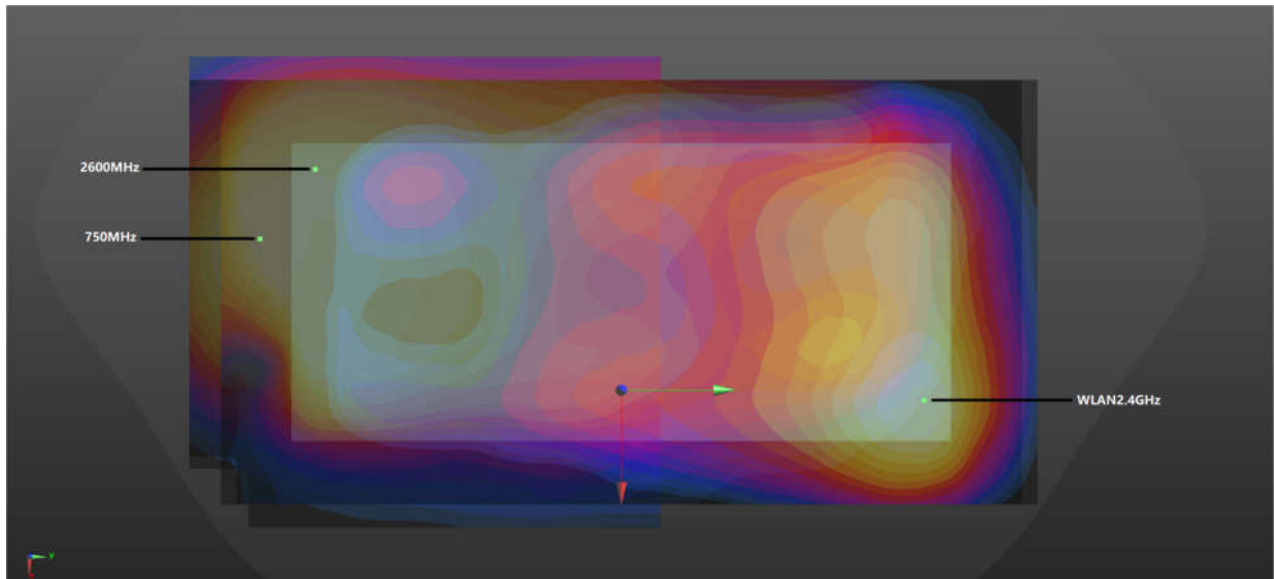
<Sensor off>

WWAN Band	Exposure Position	1	2	3	1+2 Summed 10g SAR (W/kg)	1+3 Summed 10g SAR (W/kg)
		WWAN	2.4GHz WLAN Ant 5	5GHz WLAN Ant 6		
		10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)		
GSM1900Ant 1	Front at 9mm	0.639	1.298	0.539	1.94	1.18
	Back at 14mm	0.652	0.781	0.539	1.43	1.19
	Bottom side at 10mm	1.513			1.51	1.51
WCDMA IIAnt 1	Front at 9mm	1.326	1.298	0.539	2.62	1.87
	Back at 14mm	0.643	0.781	0.539	1.42	1.18
	Bottom side at 10mm	2.606			2.61	2.61
WCDMA IVAnt 1	Front at 9mm	1.310	1.298	0.539	2.61	1.85
	Back at 14mm	1.206	0.781	0.539	1.99	1.75
	Bottom side at 10mm	2.407			2.41	2.41
LTE Band 7Ant 2	Front at 2mm	2.316	1.298	0.539	3.61	2.86
	Back at 4mm	2.316	0.781	0.539	3.10	2.86
	Left side at 5mm	0.923			0.92	0.92
	Bottom side at 6mm	1.442			1.44	1.44
LTE Band 25Ant 1	Front at 9mm	1.041	1.298	0.539	2.34	1.58
	Back at 14mm	1.065	0.781	0.539	1.85	1.60
	Bottom side at 10mm	2.528			2.53	2.53
LTE Band 30Ant 2	Front at 2mm	1.570	1.298	0.539	2.87	2.11
	Back at 4mm	1.318	0.781	0.539	2.10	1.86
	Left side at 5mm	0.569			0.57	0.57
	Bottom side at 6mm	0.506			0.51	0.51
LTE Band 66Ant 1	Front at 9mm	1.034	1.298	0.539	2.33	1.57
	Back at 14mm	0.954	0.781	0.539	1.74	1.49
	Bottom side at 10mm	1.841			1.84	1.84
LTE Band 41_HPUEAnt 2	Front at 2mm	1.116	1.298	0.539	2.41	1.66
	Back at 4mm	1.039	0.781	0.539	1.82	1.58
	Bottom side at 6mm	1.389			1.39	1.39
LTE Band 41_Ant 2	Front at 2mm	0.963	1.298	0.539	2.26	1.50
	Back at 4mm	0.845	0.781	0.539	1.63	1.38
	Bottom side at 6mm	1.139			1.14	1.14

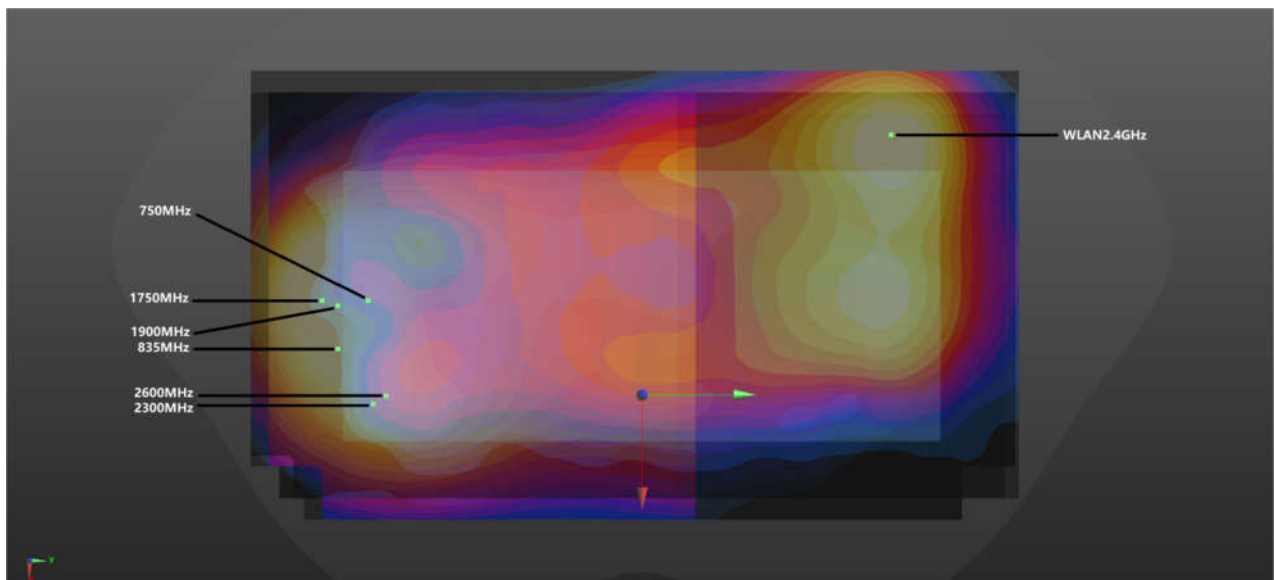
16.5 SPLSR Evaluation and Analysis

General Note:

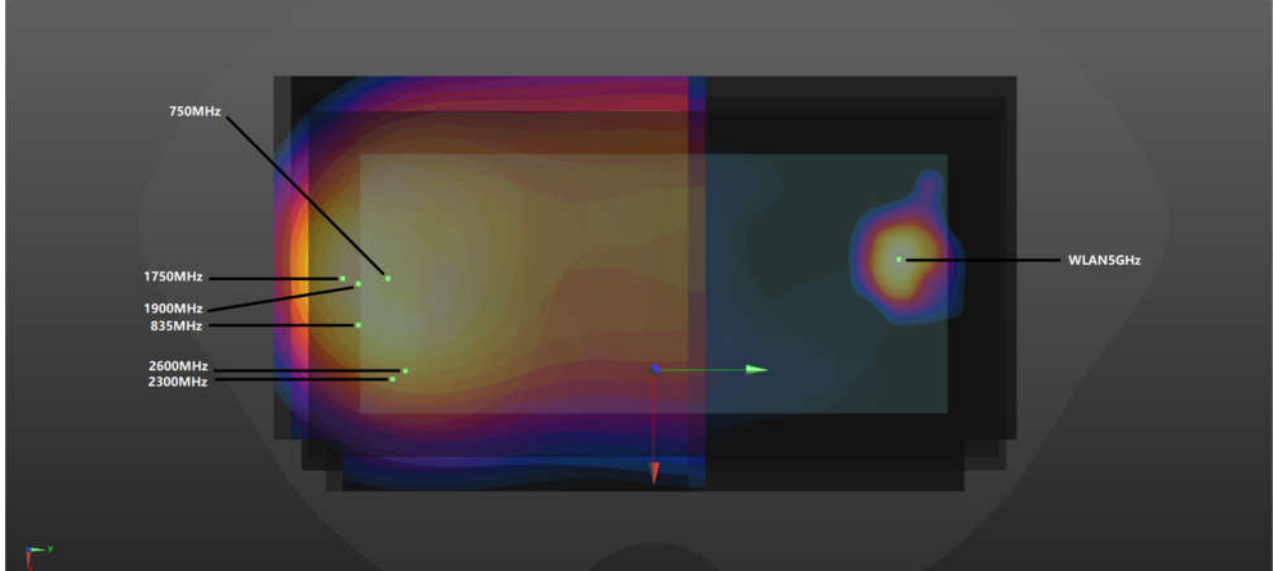
1. When standalone SAR is measured for both antennas in the pair, the peak location separation distance is computed by the square root of $[(x1-x2)^2 + (y1-y2)^2 + (z1-z2)^2]$, where (x1, y1, z1) and (x2, y2, z2) are the coordinates in the area scans or extrapolated peak SAR locations in the zoom scans, as appropriate.
2. $SPLSR = (SAR1 + SAR2)1.5 / (\text{min. separation distance, mm})$. If $SPLSR \leq 0.04$ for 1g SAR and $SPLSR \leq 0.10$ for 10g SAR, simultaneously transmission SAR measurement is not necessary.



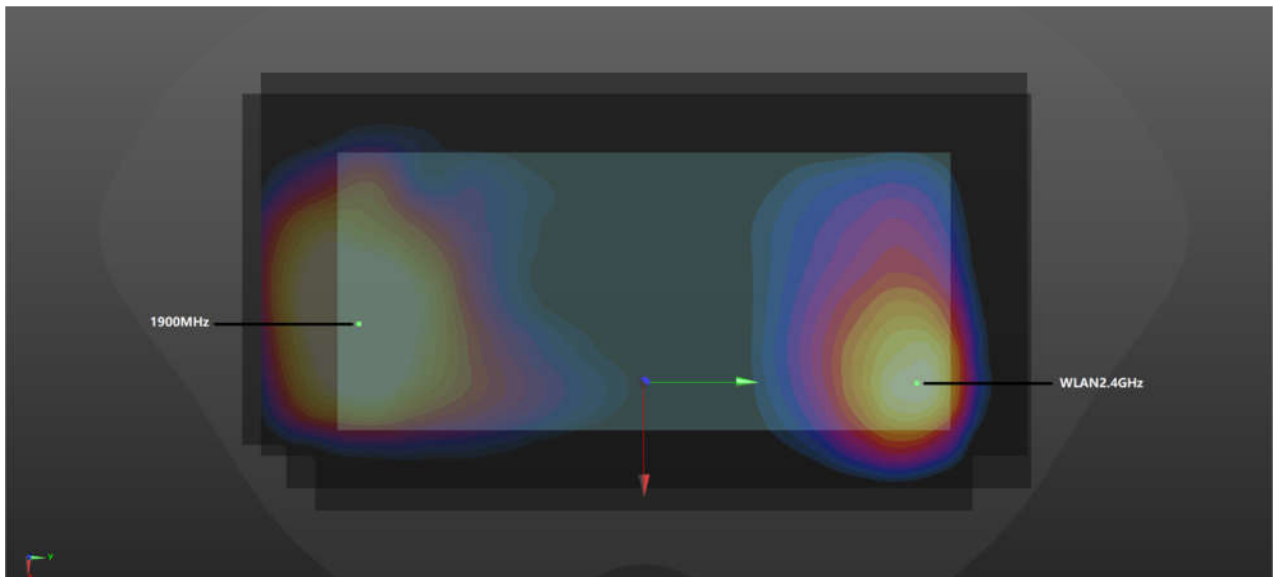
WWAN+WLAN2.4GHz_Front 5mm



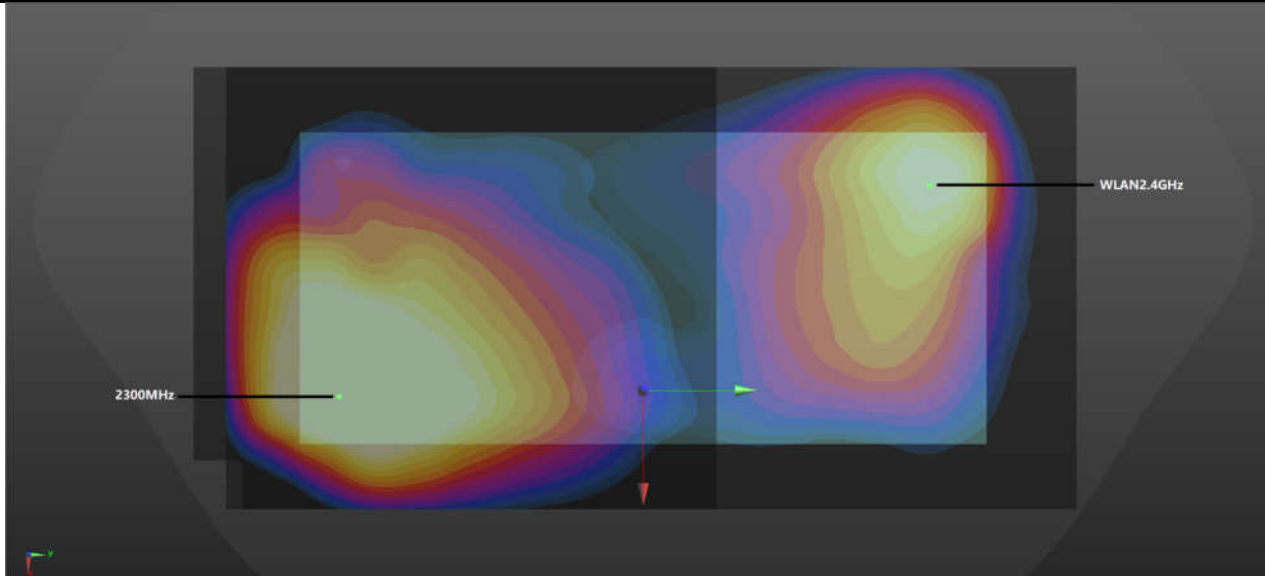
WWAN+WLAN2.4GHz_Back 5mm



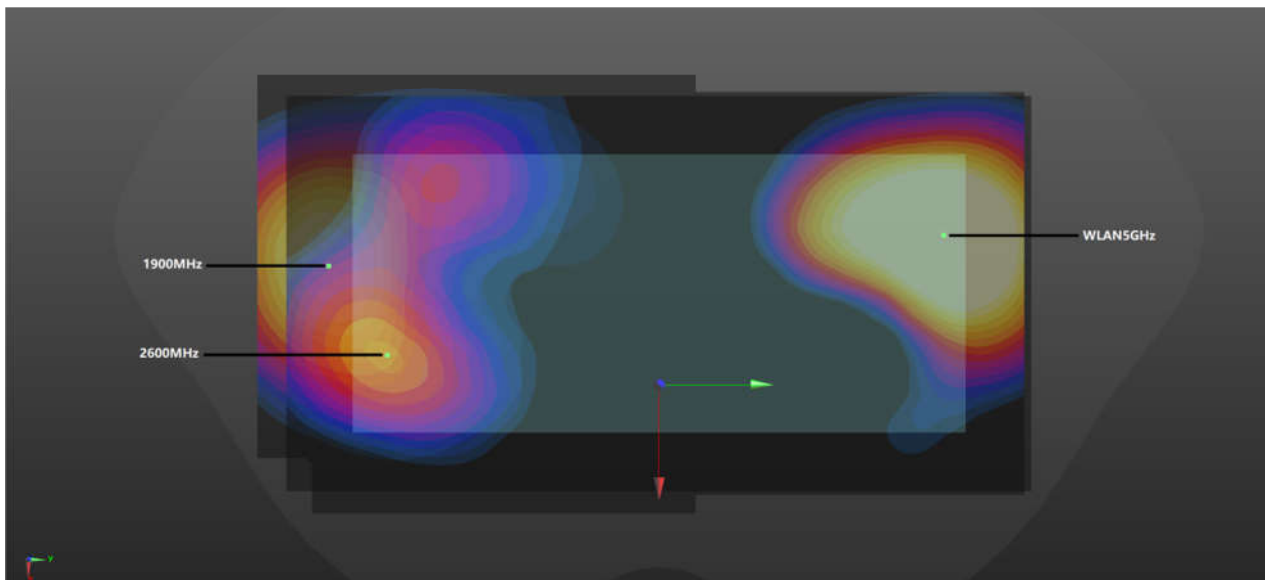
WWAN+WLAN5GHz_Back 5mm



WWAN+WLAN2.4GHz_Front 0mm



WWAN+WLAN2.4GHz_Back 0mm



WWAN+WLAN5GHz_Back 22mm



For Hotspot & Body-Worn											
	Band	Position	SAR (W/kg)	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				(mm)	X	Y	Z				
Case 1	GSM850	Back	1.369	5mm	13.5	-87	0.81	167.0	1.93	0.02	Not required
	WLAN2.4GHz		0.558	5mm	-46	69	0.66				
Case 2	GSM850	Back	1.369	5mm	13.5	-87	0.81	159.5	2.09	0.02	Not required
	WLAN5GHz		0.724	5mm	-8.6	71	0.71				
Case 3	GSM1900	Back	1.291	5mm	7.7	-85.4	0.77	163.5	1.85	0.02	Not required
	WLAN2.4GHz		0.558	5mm	-46	69	0.66				
Case 4	GSM1900	Back	1.291	5mm	13.5	-87	0.81	159.5	2.02	0.02	Not required
	WLAN5GHz		0.724	5mm	-8.6	71	0.71				
Case 5	WCDMA II	Back	1.384	5mm	2.9	-84	0.75	160.6	1.94	0.02	Not required
	WLAN2.4GHz		0.558	5mm	-46	69	0.66				
Case 6	WCDMA II	Back	1.384	5mm	2.9	-84	0.75	155.4	2.11	0.02	Not required
	WLAN5GHz		0.724	5mm	-8.6	71	0.71				
Case 7	WCDMA IV	Back	1.256	5mm	3	-85.4	0.75	162.0	1.81	0.02	Not required
	WLAN2.4GHz		0.558	5mm	-46	69	0.66				
Case 8	WCDMA IV	Back	1.256	5mm	3	-85.4	0.75	156.8	1.98	0.02	Not required
	WLAN5GHz		0.724	5mm	-8.6	71	0.71				
Case 9	WCDMA V	Back	1.391	5mm	13.6	-87	0.84	167.0	1.95	0.02	Not required
	WLAN2.4GHz		0.558	5mm	-46	69	0.66				
Case 10	WCDMA V	Back	1.391	5mm	13.6	-87	0.84	159.6	2.12	0.02	Not required
	WLAN5GHz		0.724	5mm	-8.6	71	0.71				
Case 11	LTE Band 7	Front	0.991	5mm	-33.2	-82	0.68	166.5	1.65	0.01	Not required
	WLAN2.4GHz		0.662	5mm	29.6	72.2	0.82				
Case 12	LTE Band 7	Back	1.238	5mm	25.2	-72	0.82	158.0	1.80	0.02	Not required
	WLAN2.4GHz		0.558	5mm	-46	69	0.66				
Case 13	LTE Band 7	Back	1.238	5mm	25.2	-72	0.82	146.9	1.96	0.02	Not required
	WLAN5GHz		0.724	5mm	-8.6	71	0.71				
Case 14	LTE Band 12	Back	1.188	5mm	4.9	-77	0.71	154.6	1.75	0.01	Not required
	WLAN2.4GHz		0.558	5mm	-46	69	0.66				
Case 15	LTE Band 12	Back	1.188	5mm	4.9	-77	0.71	148.6	1.91	0.02	Not required
	WLAN5GHz		0.724	5mm	-8.6	71	0.71				
Case 16	LTE Band 13	Front	1.025	5mm	-13.5	-92	0.72	169.8	1.69	0.01	Not required
	WLAN2.4GHz		0.662	5mm	29.6	72.2	0.82				
Case 17	LTE Band 13	Back	1.414	5mm	-1.5	-83.4	0.68	158.8	1.97	0.02	Not required
	WLAN2.4GHz		0.558	5mm	-46	69	0.66				
Case 18	LTE Band 13	Back	1.414	5mm	-1.5	-83.4	0.68	154.6	2.14	0.02	Not required
	WLAN5GHz		0.724	5mm	-8.6	71	0.71				
Case 19	LTE Band 14	Front	1.134	5mm	-13.5	-92	0.72	169.8	1.80	0.01	Not required
	WLAN2.4GHz		0.662	5mm	29.6	72.2	0.82				
Case 20	LTE Band 14	Back	1.436	5mm	-1.5	-83.4	0.66	158.8	1.99	0.02	Not required
	WLAN2.4GHz		0.558	5mm	-46	69	0.66				
Case 21	LTE Band 14	Back	1.436	5mm	-1.5	-83.4	0.66	154.6	2.16	0.02	Not required
	WLAN5GHz		0.724	5mm	-8.6	71	0.71				
Case 22	LTE Band 25	Back	1.249	5mm	-8.8	-79.9	0.61	153.5	1.81	0.02	Not required
	WLAN2.4GHz		0.558	5mm	-46	69	0.66				
Case 23	LTE Band 25	Back	1.249	5mm	-8.8	-79.9	0.61	150.9	1.97	0.02	Not required
	WLAN5GHz		0.724	5mm	-8.6	71	0.71				
Case 24	LTE Band 26	Back	1.274	5mm	-1.5	-85	0.64	160.3	1.83	0.02	Not required
	WLAN2.4GHz		0.558	5mm	-46	69	0.66				
Case 25	LTE Band 26	Back	1.274	5mm	-1.5	-85	0.64	156.2	2.00	0.02	Not required
	WLAN5GHz		0.724	5mm	-8.6	71	0.71				



Case 26	LTE Band 30	Back	1.2	5mm	29.6	-72.2	0.9	160.2	1.76	0.01	Not required
	WLAN2.4GHz		0.558	5mm	-46	69	0.66				
Case 27	LTE Band 30	Back	1.2	5mm	29.6	-72.2	0.9	148.2	1.92	0.02	Not required
	WLAN5GHz		0.724	5mm	-8.6	71	0.71				
Case 28	LTE Band 66	Back	1.227	5mm	-3.1	-84	0.7	158.9	1.79	0.02	Not required
	WLAN2.4GHz		0.558	5mm	-46	69	0.66				
Case 29	LTE Band 66	Back	1.227	5mm	-3.1	-84	0.7	155.1	1.95	0.02	Not required
	WLAN5GHz		0.724	5mm	-8.6	71	0.71				
Case 30	LTE Band 71	Back	0.981	5mm	-1.5	-81.9	0.69	153.1	1.71	0.01	Not required
	WLAN5GHz		0.724	5mm	-8.6	71	0.71				
Case 31	LTE Band 41(HPUE)	Front	1.02	5mm	-27.4	-79.8	0.84	162.3	1.68	0.01	Not required
	WLAN2.4GHz		0.662	5mm	29.6	72.2	0.82				
Case 32	LTE Band 41(HPUE)	Back	1.26	5mm	26.2	-73.2	0.87	159.5	1.82	0.02	Not required
	WLAN2.4GHz		0.558	5mm	-46	69	0.66				
Case 33	LTE Band 41(HPUE)	Back	1.26	5mm	26.2	-73.2	0.87	148.3	1.98	0.02	Not required
	WLAN5GHz		0.724	5mm	-8.6	71	0.71				
Case 39	LTE Band 38	Front	0.967	5mm	-29.3	-81.3	0.71	164.4	1.63	0.01	Not required
	WLAN2.4GHz		0.662	5mm	29.6	72.2	0.82				
Case 40	LTE Band 38	Back	1.299	5mm	25.6	-78.5	0.85	164.0	1.86	0.02	Not required
	WLAN2.4GHz		0.558	5mm	-46	69	0.66				
Case 41	LTE Band 38	Back	1.299	5mm	25.6	-78.5	0.85	153.4	2.02	0.02	Not required
	WLAN5GHz		0.724	5mm	-8.6	71	0.71				

For Sensor off

	Band	Position	SAR (W/kg)	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				(mm)	X	Y	Z				
Case 36	WCDMA II	Back	0.993	22mm	-7.5	-82.5	0.69	163.0	2.12	0.02	Not required
	WLAN5Ghz		1.13	22mm	-14.4	80.4	0.89				
Case 37	LTE Band 7	Back	0.486	22mm	17.8	-75.4	0.81	159.1	1.62	0.01	Not required
	WLAN5Ghz		1.13	22mm	-14.4	80.4	0.89				
Case 38	LTE Band 25	Back	0.825	22mm	-7.5	-88.9	0.69	169.4	1.96	0.02	Not required
	WLAN5Ghz		1.13	22mm	-14.4	80.4	0.89				

For Product Specific 10g

	Band	Position	SAR (W/kg)	Gap	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
				(mm)	X	Y	Z				
Case 34	LTE Band 25	Front	2.748	0	15.4	-78	0.99	156.1	4.05	0.05	Not required
	WLAN2.4Ghz		1.298	0	25.2	77.8	0.93				
Case 35	LTE Band 30	Back	3.418	0	26.4	-77.4	0.94	160.3	4.20	0.05	Not required
	WLAN2.4Ghz		0.781	0	-29.2	73	0.78				

Test Engineer : Nick Hu, Seven Xu, Bruce Li



17. Uncertainty Assessment

Per KDB 865664 D01 SAR measurement 100MHz to 6GHz, when the highest measured 1-g SAR within a frequency band is < 1.5 W/kg and the measured 10-g SAR within a frequency band is < 3.75 W/kg. The expanded SAR measurement uncertainty must be $\leq 30\%$, for a confidence interval of $k = 2$. If these conditions are met, extensive SAR measurement uncertainty analysis described in IEEE Std 1528-2013 is not required in SAR reports submitted for equipment approval. For this device, the highest measured 1-g SAR is less 1.5W/kg and highest measured 10-g SAR is less 3.75W/kg. Therefore, the measurement uncertainty table is not required in this report.

18. References

- [1] FCC 47 CFR Part 2 "Frequency Allocations and Radio Treaty Matters; General Rules and Regulations"
- [2] ANSI/IEEE Std. C95.1-1992, "IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz", September 1992
- [3] IEEE Std. 1528-2013, "IEEE Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques", Sep 2013
- [4] SPEAG DASY System Handbook
- [5] FCC KDB 865664 D01 v01r04, "SAR Measurement Requirements for 100 MHz to 6 GHz", Aug 2015.
- [6] FCC KDB 865664 D02 v01r02, "RF Exposure Compliance Reporting and Documentation Considerations" Oct 2015.
- [7] FCC KDB 447498 D01 v06, "Mobile and Portable Device RF Exposure Procedures and Equipment Authorization Policies", Oct 2015
- [8] FCC KDB 648474 D04 v01r03, "SAR Evaluation Considerations for Wireless Handsets", Oct 2015.
- [9] FCC KDB 248227 D01 v02r02, "SAR Guidance for IEEE 802.11 (WiFi) Transmitters", Oct 2015.
- [10] FCC KDB 616217 D04 v01r02, "SAR Evaluation Considerations for Laptop, Notebook, Netbook and Tablet Computers", Oct 2015
- [11] FCC KDB 941225 D01 v03r01, "3G SAR MEAUREMENT PROCEDURES", Oct 2015
- [12] FCC KDB 941225 D05 v02r05, "SAR Evaluation Considerations for LTE Devices", Dec 2015
- [13] FCC KDB 941225 D05A v01r02, "Rel. 10 LTE SAR Test Guidance and KDB Inquiries", Oct 2015
- [14] FCC KDB 941225 D06 v02r01, "SAR Evaluation Procedures for Portable Devices with Wireless Router Capabilities", Oct 2015.

-----THE END-----



Appendix A. Plots of System Performance Check

The plots are shown as follows.

System Check_Head_750MHz

DUT: D750V3 - SN:1087

Communication System: UID 0, CW; Frequency: 750 MHz; Duty Cycle: 1:1

Medium: HSL_750 Medium parameters used: $f = 750 \text{ MHz}$; $\sigma = 0.913 \text{ S/m}$; $\epsilon_r = 43.484$; $\rho = 1000 \text{ kg/m}^3$

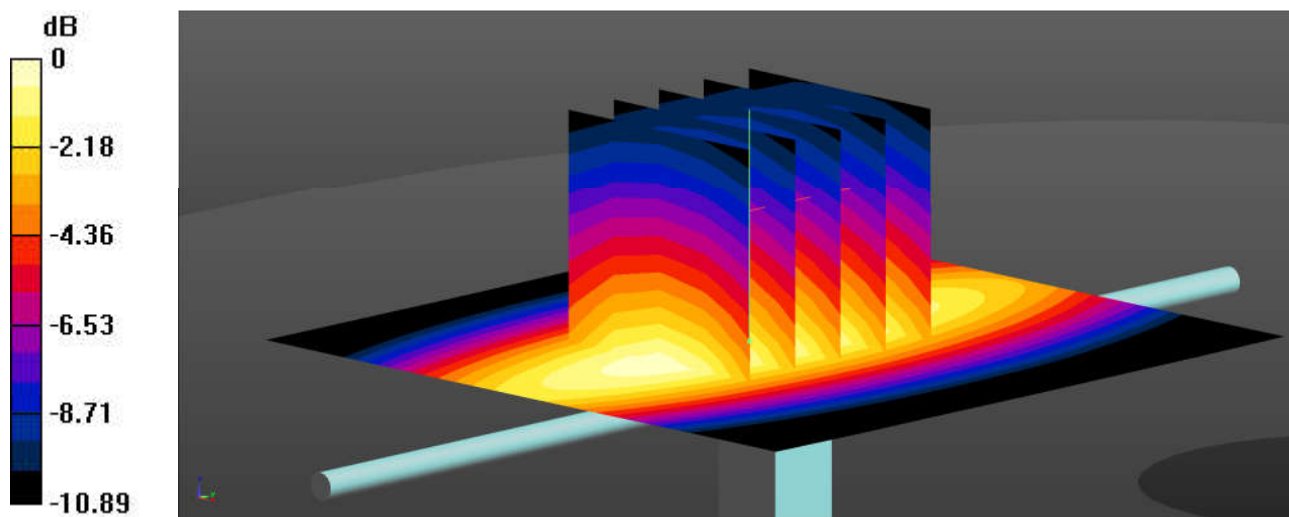
Ambient Temperature : 23.1 °C; Liquid Temperature : 22.7 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7630; ConvF(10.38, 10.38, 10.38); Calibrated: 2021.2.10
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn690; Calibrated: 2021.3.17
- Phantom: SAM Twin Phantom; Type: SAM Twin; Serial: TP-2022
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Pin=50mW/Area Scan (61x61x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$
Maximum value of SAR (interpolated) = 0.560 W/kg

Pin=50mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
Reference Value = 25.91 V/m; Power Drift = 0.02 dB
Peak SAR (extrapolated) = 0.654 W/kg
SAR(1 g) = 0.413 W/kg; SAR(10 g) = 0.268 W/kg
Maximum value of SAR (measured) = 0.567 W/kg



0 dB = 0.567 W/kg = -2.46 dBW/kg

System Check_Head_835MHz

DUT: D835V2 - SN:4d258

Communication System: UID 0, CW (0); Frequency: 835 MHz; Duty Cycle: 1:1

Medium: HSL_835 Medium parameters used: $f = 835 \text{ MHz}$; $\sigma = 0.938 \text{ S/m}$; $\epsilon_r = 42.434$; $\rho = 1000 \text{ kg/m}^3$

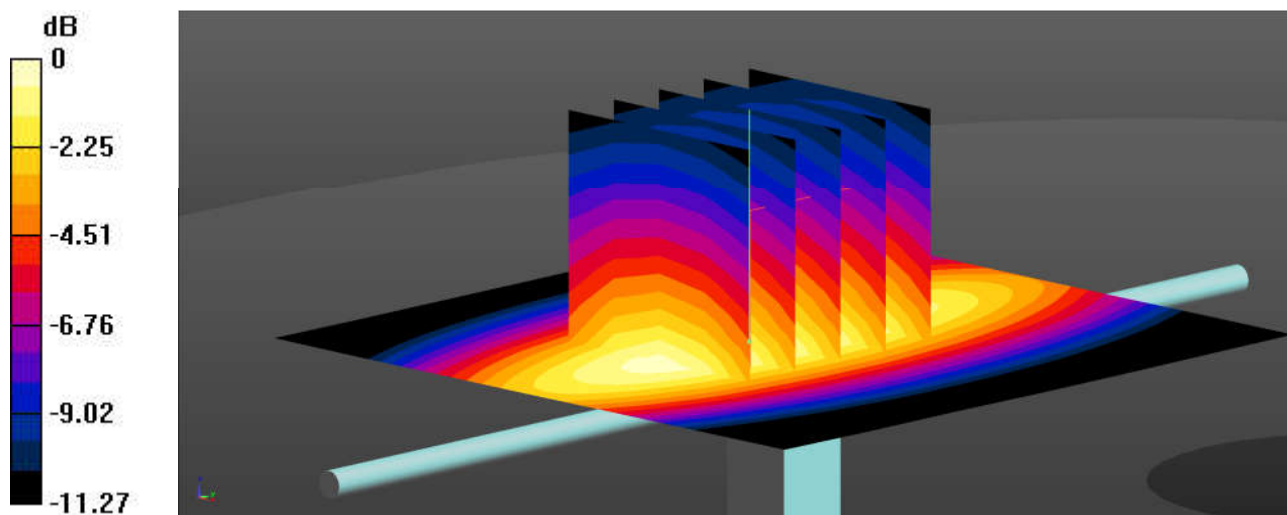
Ambient Temperature : 23.3 °C; Liquid Temperature : 22.8 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7630; ConvF(10.24, 10.24, 10.24); Calibrated: 2021.2.10
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn690; Calibrated: 2021.3.17
- Phantom: SAM Twin Phantom; Type: SAM Twin; Serial: TP-2022
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Pin=50mW/Area Scan (61x61x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$
Maximum value of SAR (interpolated) = 0.672 W/kg

Pin=50mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
Reference Value = 27.70 V/m; Power Drift = 0.05 dB
Peak SAR (extrapolated) = 0.780 W/kg
SAR(1 g) = 0.490 W/kg; SAR(10 g) = 0.316 W/kg
Maximum value of SAR (measured) = 0.677 W/kg



0 dB = 0.677 W/kg = -1.69 dBW/kg

System Check_Head_1750MHz

DUT: D1750V2 - SN:1090

Communication System: UID 0, CW (0); Frequency: 1750 MHz; Duty Cycle: 1:1
Medium: HSL_1750 Medium parameters used: $f = 1750$ MHz; $\sigma = 1.359$ S/m; $\epsilon_r = 40.943$; $\rho = 1000$ kg/m³

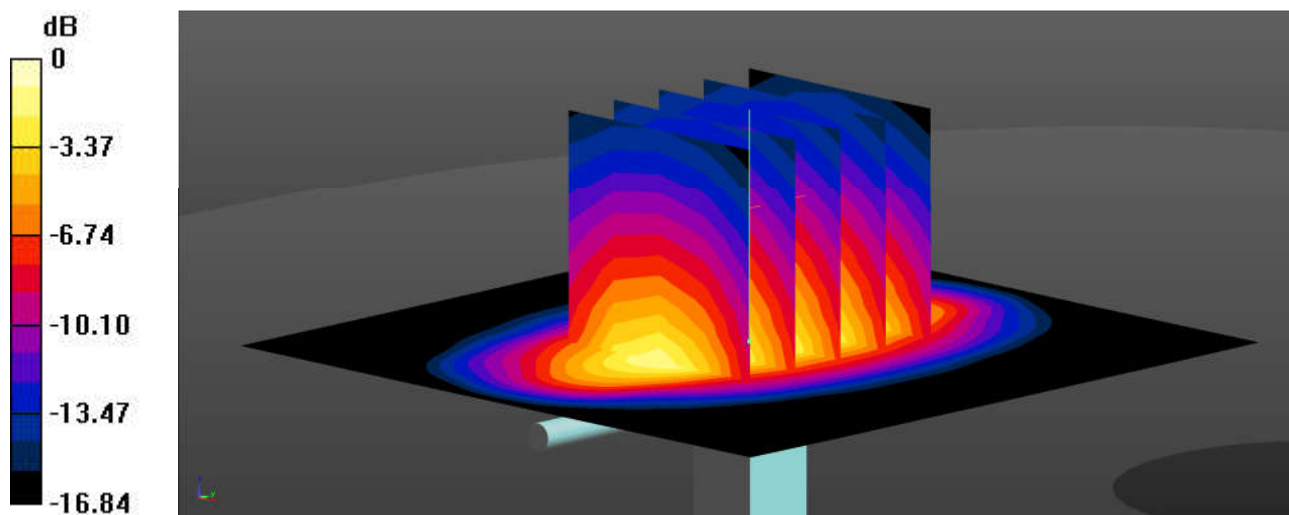
Ambient Temperature : 23.1 °C; Liquid Temperature : 22.7 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7630; ConvF(8.86, 8.86, 8.86); Calibrated: 2021.2.10
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn690; Calibrated: 2021.3.17
- Phantom: SAM Twin Phantom; Type: SAM Twin; Serial: TP-2022
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Pin=50mW/Area Scan (61x61x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 2.78 W/kg

Pin=50mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 46.46 V/m; Power Drift = -0.02 dB
Peak SAR (extrapolated) = 3.40 W/kg
SAR(1 g) = 1.82 W/kg; SAR(10 g) = 0.968 W/kg
Maximum value of SAR (measured) = 2.83 W/kg



0 dB = 2.83 W/kg = 4.52 dBW/kg

System Check_Head_1900MHz

DUT: D1900V2 - SN:5d170

Communication System: UID 0, CW (0); Frequency: 1900 MHz; Duty Cycle: 1:1
Medium: HSL_1900 Medium parameters used: $f = 1900$ MHz; $\sigma = 1.456$ S/m; $\epsilon_r = 40.687$; $\rho = 1000$ kg/m³

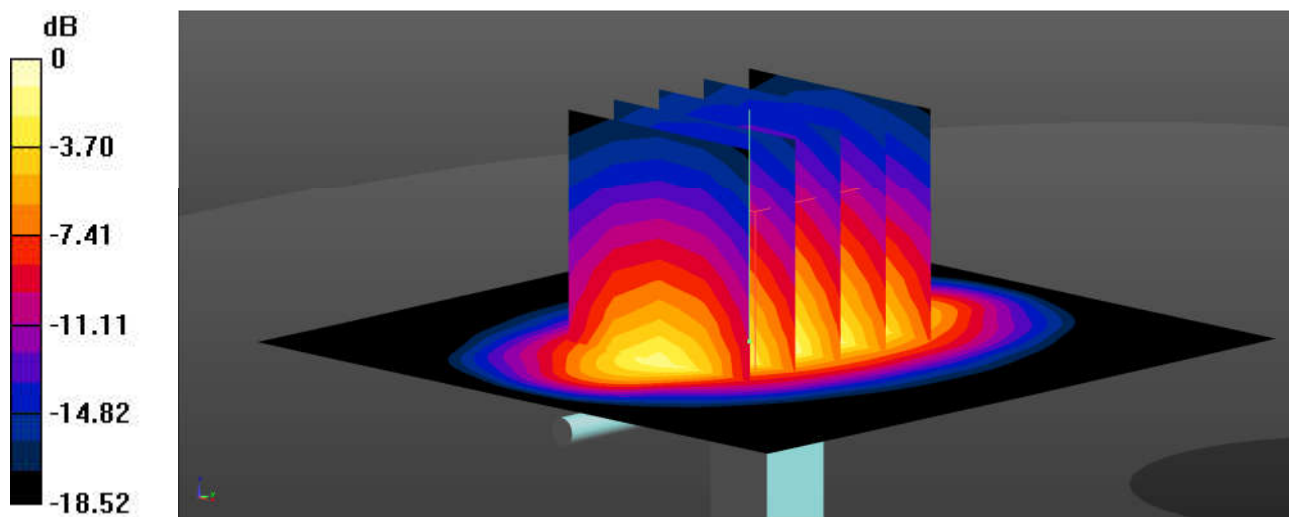
Ambient Temperature : 23.1 °C; Liquid Temperature : 22.9 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7630; ConvF(8.56, 8.56, 8.56); Calibrated: 2021.2.10
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn690; Calibrated: 2021.3.17
- Phantom: SAM Twin Phantom; Type: SAM Twin; Serial: TP-2022
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Pin=50mW/Area Scan (61x61x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 3.17 W/kg

Pin=50mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 48.04 V/m; Power Drift = -0.05 dB
Peak SAR (extrapolated) = 3.52 W/kg
SAR(1 g) = 1.81 W/kg; SAR(10 g) = 0.951 W/kg
Maximum value of SAR (measured) = 2.87 W/kg



0 dB = 2.87 W/kg = 4.58 dBW/kg

System Check_Head_2300MHz

DUT: D2300V2 - SN:1055

Communication System: UID 0, CW (0); Frequency: 2300 MHz; Duty Cycle: 1:1

Medium: HSL_2300 Medium parameters used: $f = 2300$ MHz; $\sigma = 1.718$ S/m; $\epsilon_r = 38.682$; $\rho = 1000$ kg/m³

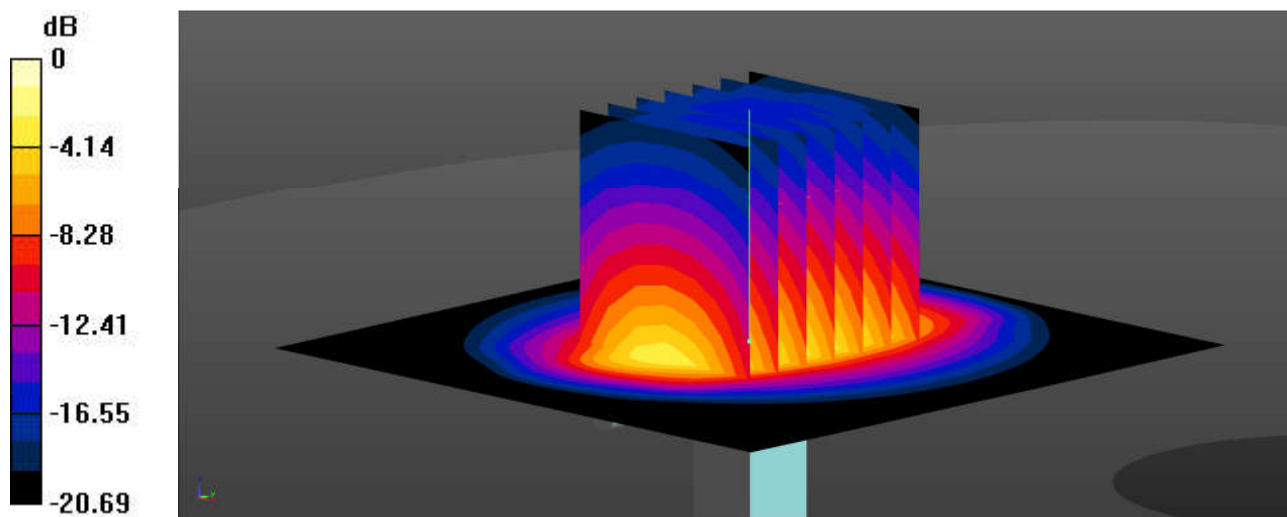
Ambient Temperature : 23.2 °C; Liquid Temperature : 22.7 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7630; ConvF(8.44, 8.44, 8.44); Calibrated: 2021.2.10
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn690; Calibrated: 2021.3.17
- Phantom: SAM Twin Phantom; Type: SAM Twin; Serial: TP-2022
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Pin=50mW/Area Scan (71x71x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 3.79 W/kg

Pin=50mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 48.41 V/m; Power Drift = -0.11 dB
Peak SAR (extrapolated) = 4.76 W/kg
SAR(1 g) = 2.35 W/kg; SAR(10 g) = 1.12 W/kg
Maximum value of SAR (measured) = 3.84 W/kg



0 dB = 3.84 W/kg = 5.84 dBW/kg

System Check_Head_2450MHz

DUT: D2450V2 - SN:908

Communication System: UID 0, CW (0); Frequency: 2450 MHz; Duty Cycle: 1:1
Medium: HSL_2450 Medium parameters used: $f = 2450$ MHz; $\sigma = 1.871$ S/m; $\epsilon_r = 40.83$; $\rho = 1000$ kg/m³

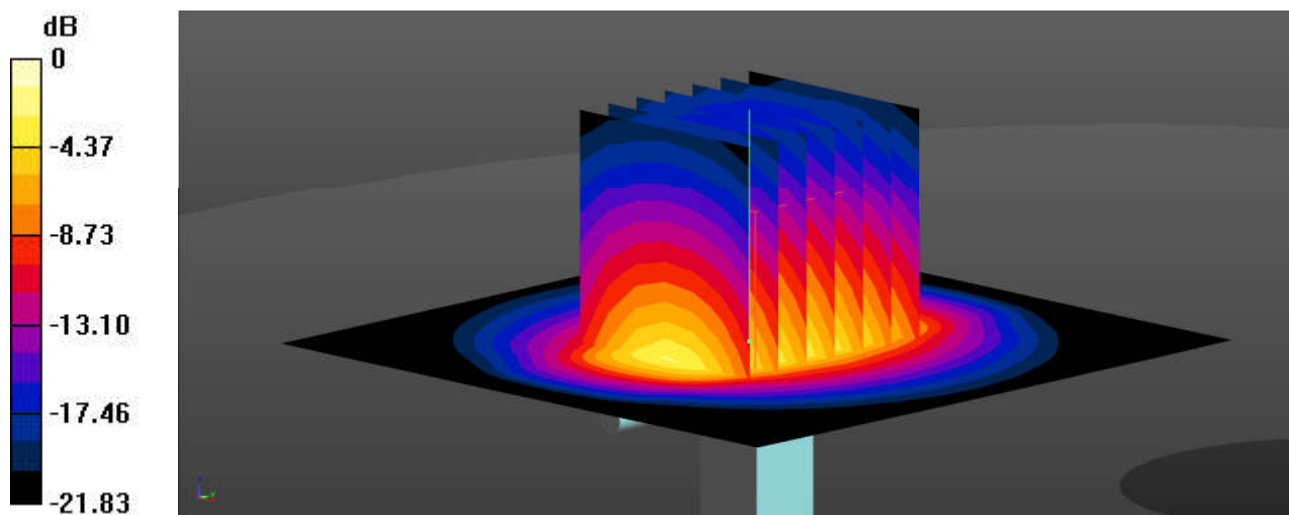
Ambient Temperature : 23.2 °C; Liquid Temperature : 22.6 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7630; ConvF(8.14, 8.14, 8.14); Calibrated: 2021.2.10
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn690; Calibrated: 2021.3.17
- Phantom: SAM Twin Phantom; Type: SAM Twin; Serial: TP-2022
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Pin=50mW/Area Scan (71x71x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 4.22 W/kg

Pin=50mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 49.07 V/m; Power Drift = -0.03 dB
Peak SAR (extrapolated) = 5.31 W/kg
SAR(1 g) = 2.49 W/kg; SAR(10 g) = 1.15 W/kg
Maximum value of SAR (measured) = 4.21 W/kg



0 dB = 4.21 W/kg = 6.24 dBW/kg

System Check_Head_2600MHz

DUT: D2600V2 - SN:1061

Communication System: UID 0, CW (0); Frequency: 2600 MHz; Duty Cycle: 1:1
Medium: HSL_2600 Medium parameters used: $f = 2600$ MHz; $\sigma = 1.979$ S/m; $\epsilon_r = 40.612$; $\rho = 1000$ kg/m³

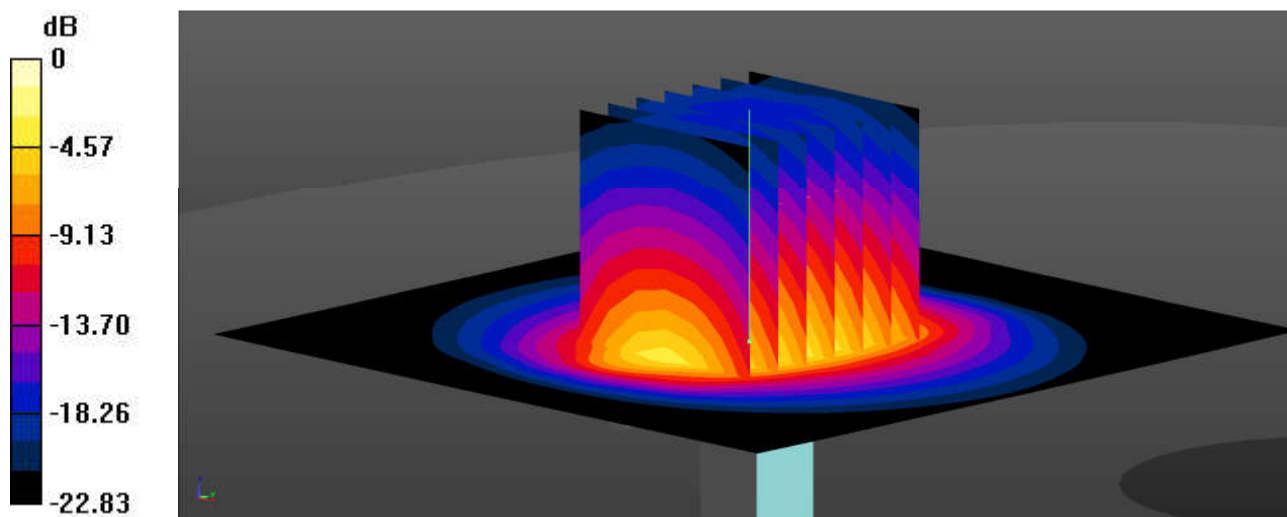
Ambient Temperature : 23.2 °C; Liquid Temperature : 22.6 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7630; ConvF(7.85, 7.85, 7.85); Calibrated: 2021.2.10
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn690; Calibrated: 2021.3.17
- Phantom: SAM Twin Phantom; Type: SAM Twin; Serial: TP-2022
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Pin=50mW/Area Scan (81x81x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 4.36 W/kg

Pin=50mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 49.25 V/m; Power Drift = -0.03 dB
Peak SAR (extrapolated) = 5.61 W/kg
SAR(1 g) = 2.63 W/kg; SAR(10 g) = 1.16 W/kg
Maximum value of SAR (measured) = 4.47 W/kg



0 dB = 4.47 W/kg = 6.50 dBW/kg

System Check_Head_5250MHz

DUT: D5GHzV2 - SN:1113

Communication System: UID 0, CW (0); Frequency: 5250 MHz; Duty Cycle: 1:1
Medium: HSL_5000 Medium parameters used: $f = 5250$ MHz; $\sigma = 4.587$ S/m; $\epsilon_r = 36.209$; $\rho = 1000$ kg/m³

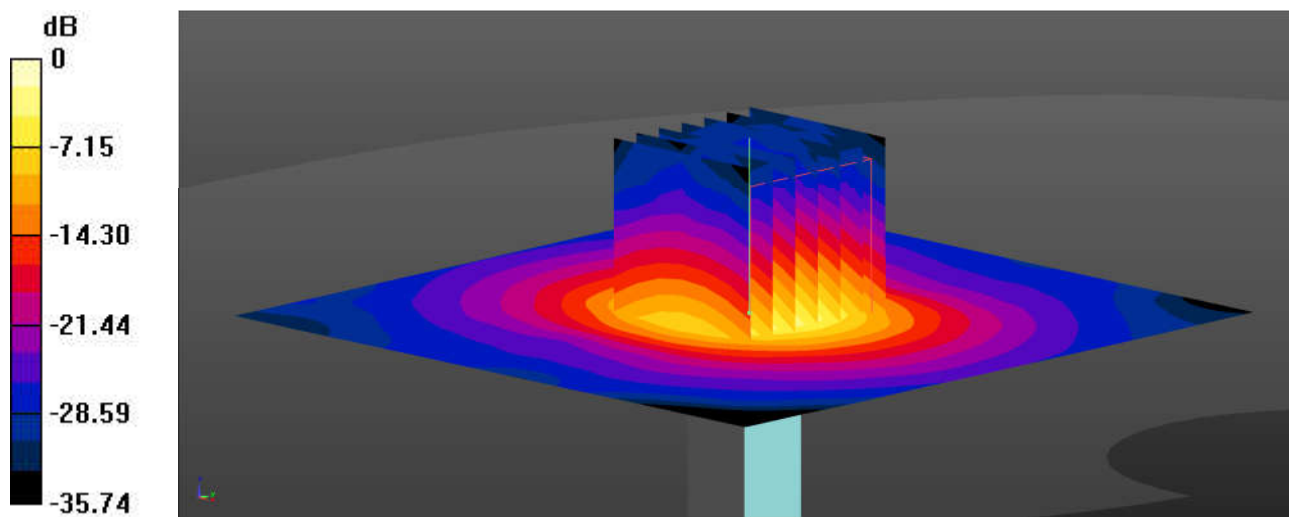
Ambient Temperature : 23.2 °C; Liquid Temperature : 22.8 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7630; ConvF(5.55, 5.55, 5.55); Calibrated: 2021.2.10
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn690; Calibrated: 2021.3.17
- Phantom: SAM Twin Phantom; Type: SAM Twin; Serial: TP-2022
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Pin=50mW/Area Scan (91x91x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 8.10 W/kg

Pin=50mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 48.68 V/m; Power Drift = -0.09 dB
Peak SAR (extrapolated) = 13.8 W/kg
SAR(1 g) = 3.78 W/kg; SAR(10 g) = 1.09 W/kg
Maximum value of SAR (measured) = 8.75 W/kg



0 dB = 8.75 W/kg = 9.42 dBW/kg

System Check_Head_5600MHz

DUT: D5GHzV2 - SN:1113

Communication System: UID 0, CW (0); Frequency: 5600 MHz; Duty Cycle: 1:1
Medium: HSL_5000 Medium parameters used: $f = 5600$ MHz; $\sigma = 4.964$ S/m; $\epsilon_r = 35.704$; $\rho = 1000$ kg/m³

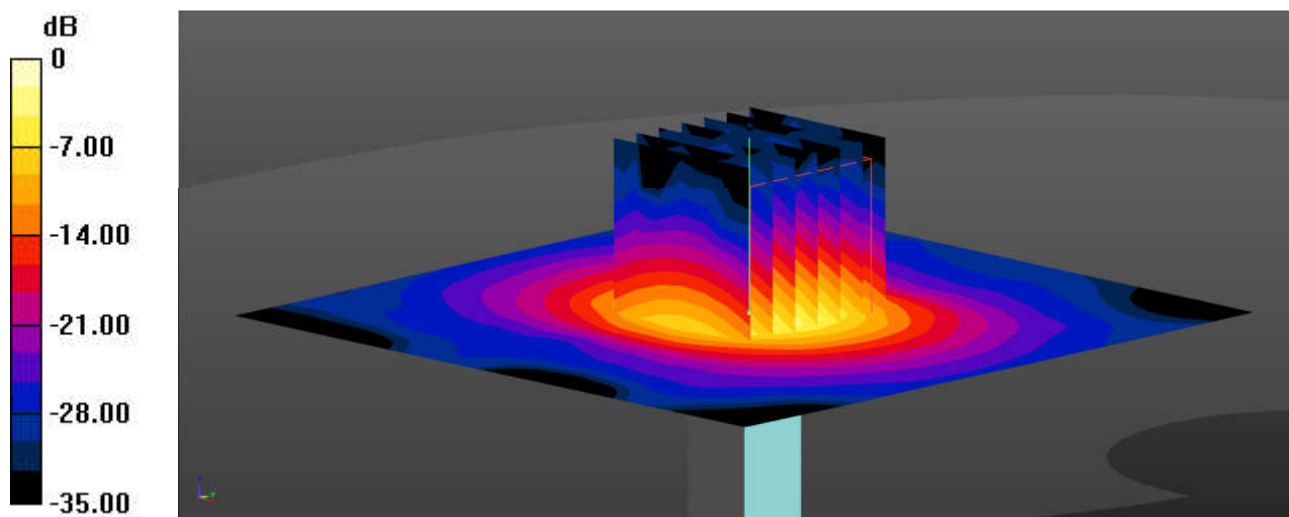
Ambient Temperature : 23.3 °C; Liquid Temperature : 22.7 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7630; ConvF(4.85, 4.85, 4.85); Calibrated: 2021.2.10
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn690; Calibrated: 2021.3.17
- Phantom: SAM Twin Phantom; Type: SAM Twin; Serial: TP-2022
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Pin=50mW/Area Scan (91x91x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 9.33 W/kg

Pin=50mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 49.57 V/m; Power Drift = -0.17 dB
Peak SAR (extrapolated) = 16.5 W/kg
SAR(1 g) = 3.85 W/kg; SAR(10 g) = 1.19 W/kg
Maximum value of SAR (measured) = 9.94 W/kg



0 dB = 9.94 W/kg = 9.97 dBW/kg

System Check_Head_5750MHz

DUT: D5GHzV2 - SN:1113

Communication System: UID 0, CW (0); Frequency: 5750 MHz; Duty Cycle: 1:1
Medium: HSL_5000 Medium parameters used: $f = 5750$ MHz; $\sigma = 5.137$ S/m; $\epsilon_r = 35.513$; $\rho = 1000$ kg/m³

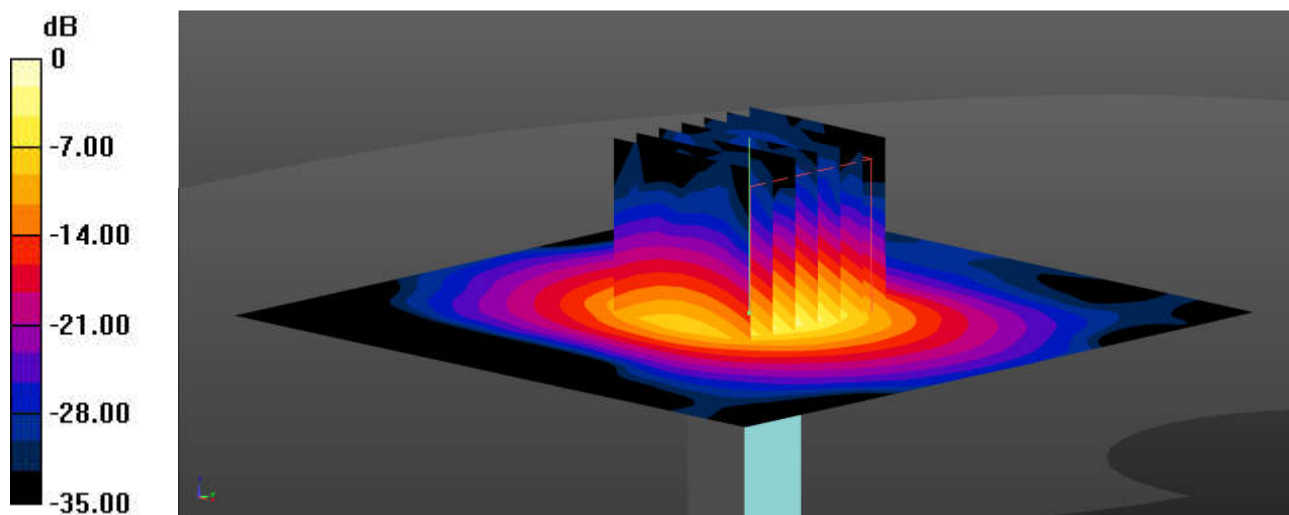
Ambient Temperature : 23.4 °C; Liquid Temperature : 22.8 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7630; ConvF(5.07, 5.07, 5.07); Calibrated: 2021.2.10
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn690; Calibrated: 2021.3.17
- Phantom: SAM Twin Phantom; Type: SAM Twin; Serial: TP-2022
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Pin=50mW/Area Scan (91x91x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 8.35 W/kg

Pin=50mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 46.25 V/m; Power Drift = -0.12 dB
Peak SAR (extrapolated) = 15.7 W/kg
SAR(1 g) = 3.76 W/kg; SAR(10 g) = 1.08 W/kg
Maximum value of SAR (measured) = 9.11 W/kg



0 dB = 9.11 W/kg = 9.60 dBW/kg

System Check_Head_750MHz

DUT: D750V3 - SN:1087

Communication System: UID 0, CW; Frequency: 750 MHz; Duty Cycle: 1:1

Medium: HSL_750 Medium parameters used: $f = 750$ MHz; $\sigma = 0.906$ S/m; $\epsilon_r = 42.768$; $\rho = 1000$ kg/m³

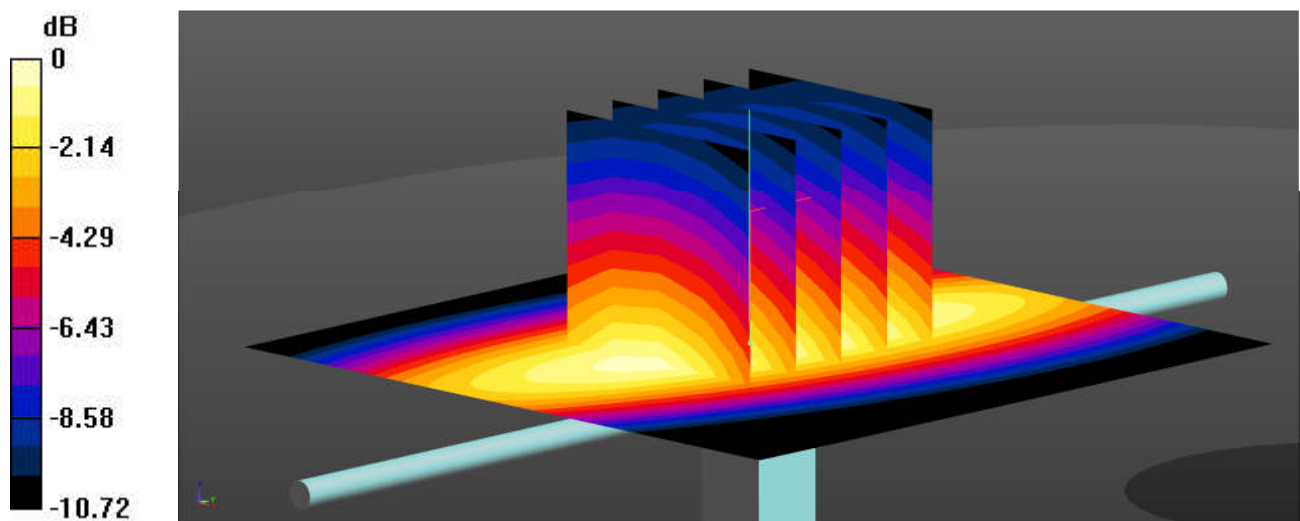
Ambient Temperature : 23.3 °C; Liquid Temperature : 22.6 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7630; ConvF(10.38, 10.38, 10.38); Calibrated: 2021.2.10
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn690; Calibrated: 2021.3.17
- Phantom: SAM Twin Phantom; Type: SAM Twin; Serial: TP-2022
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Pin=50mW/Area Scan (61x61x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.544 W/kg

Pin=50mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 25.56 V/m; Power Drift = 0.02 dB
Peak SAR (extrapolated) = 0.618 W/kg
SAR(1 g) = 0.407 W/kg; SAR(10 g) = 0.267 W/kg
Maximum value of SAR (measured) = 0.548 W/kg



0 dB = 0.548 W/kg = -2.61 dBW/kg

System Check_Head_835MHz

DUT: D835V2 - SN:4d258

Communication System: UID 0, CW (0); Frequency: 835 MHz; Duty Cycle: 1:1

Medium: HSL_835 Medium parameters used: $f = 835 \text{ MHz}$; $\sigma = 0.936 \text{ S/m}$; $\epsilon_r = 42.529$; $\rho = 1000 \text{ kg/m}^3$

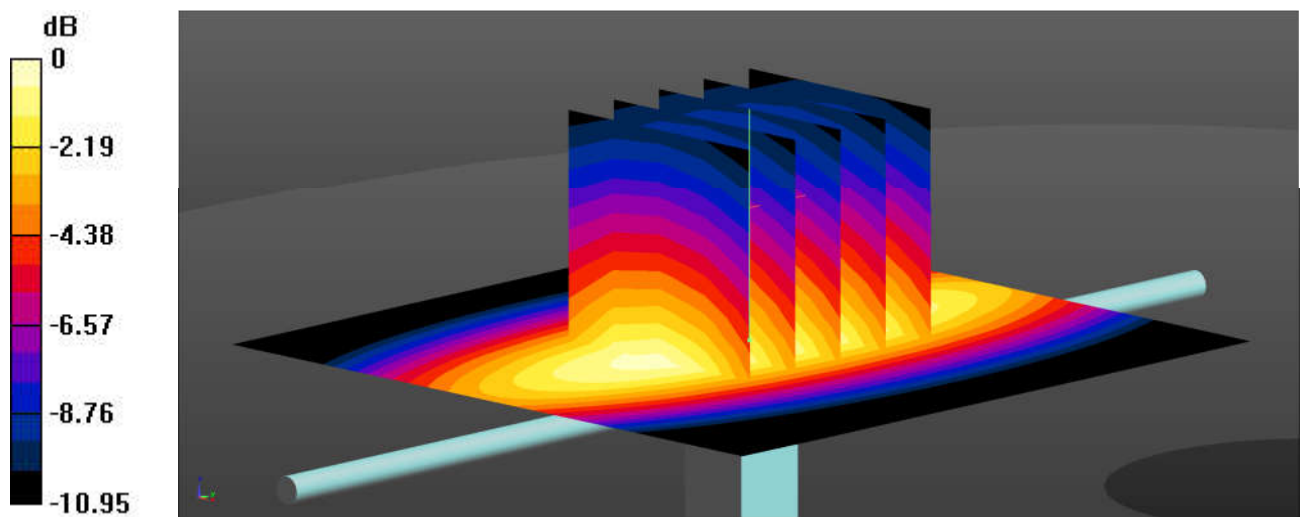
Ambient Temperature : 23.3 °C; Liquid Temperature : 22.8 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7630; ConvF(10.24, 10.24, 10.24); Calibrated: 2021.2.10
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn690; Calibrated: 2021.3.17
- Phantom: SAM Twin Phantom; Type: SAM Twin; Serial: TP-2022
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Pin=50mW/Area Scan (61x61x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$
Maximum value of SAR (interpolated) = 0.687 W/kg

Pin=50mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
Reference Value = 28.07 V/m; Power Drift = -0.01 dB
Peak SAR (extrapolated) = 0.775 W/kg
SAR(1 g) = 0.505 W/kg; SAR(10 g) = 0.329 W/kg
Maximum value of SAR (measured) = 0.682 W/kg



0 dB = 0.682 W/kg = -1.66 dBW/kg

System Check_Head_1750MHz

DUT: D1750V2 - SN:1090

Communication System: UID 0, CW (0); Frequency: 1750 MHz; Duty Cycle: 1:1
Medium: HSL_1750 Medium parameters used: $f = 1750$ MHz; $\sigma = 1.334$ S/m; $\epsilon_r = 40.076$; $\rho = 1000$ kg/m³

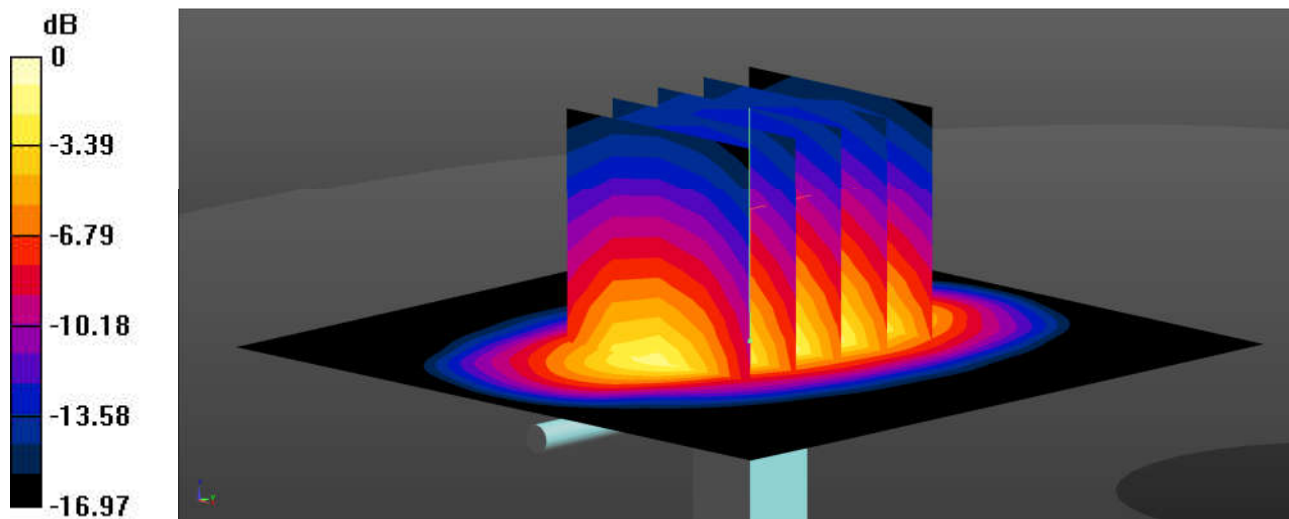
Ambient Temperature : 23.1 °C; Liquid Temperature : 22.7 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7630; ConvF(8.86, 8.86, 8.86); Calibrated: 2021.2.10
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn690; Calibrated: 2021.3.17
- Phantom: SAM Twin Phantom; Type: SAM Twin; Serial: TP-2022
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Pin=50mW/Area Scan (61x61x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 2.73 W/kg

Pin=50mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 46.44 V/m; Power Drift = 0.03 dB
Peak SAR (extrapolated) = 3.21 W/kg
SAR(1 g) = 1.76 W/kg; SAR(10 g) = 0.937 W/kg
Maximum value of SAR (measured) = 2.72 W/kg



0 dB = 2.72 W/kg = 4.35 dBW/kg

System Check_Head_1900MHz

DUT: D1900V2 - SN:5d170

Communication System: UID 0, CW (0); Frequency: 1900 MHz; Duty Cycle: 1:1
Medium: HSL_1900 Medium parameters used: $f = 1900$ MHz; $\sigma = 1.432$ S/m; $\epsilon_r = 39.831$; $\rho = 1000$ kg/m³

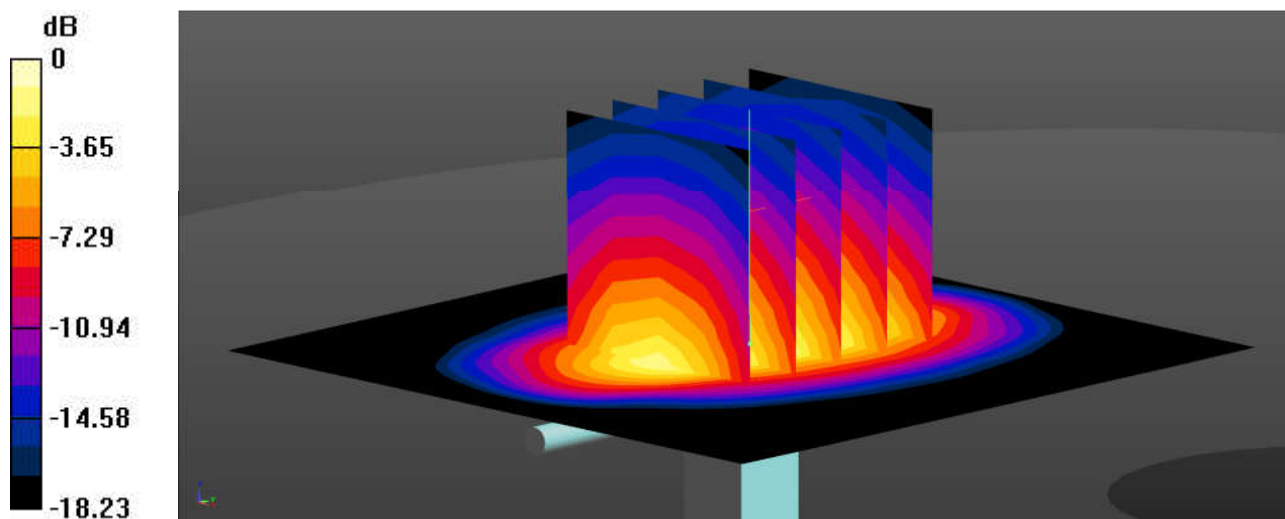
Ambient Temperature : 23.1 °C; Liquid Temperature : 22.9 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7630; ConvF(8.56, 8.56, 8.56); Calibrated: 2021.2.10
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn690; Calibrated: 2021.3.17
- Phantom: SAM Twin Phantom; Type: SAM Twin; Serial: TP-2022
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Pin=50mW/Area Scan (61x61x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 3.20 W/kg

Pin=50mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 47.68 V/m; Power Drift = -0.01 dB
Peak SAR (extrapolated) = 3.83 W/kg
SAR(1 g) = 2.01 W/kg; SAR(10 g) = 1.03 W/kg
Maximum value of SAR (measured) = 3.18 W/kg



0 dB = 3.18 W/kg = 5.02 dBW/kg

System Check_Head_2300MHz

DUT: D2300V2 - SN:1055

Communication System: UID 0, CW (0); Frequency: 2300 MHz; Duty Cycle: 1:1

Medium: HSL_2300 Medium parameters used: $f = 2300$ MHz; $\sigma = 1.666$ S/m; $\epsilon_r = 39.528$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.2 °C; Liquid Temperature : 22.6 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7630; ConvF(8.44, 8.44, 8.44); Calibrated: 2021.2.10
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn690; Calibrated: 2021.3.17
- Phantom: SAM Twin Phantom; Type: SAM Twin; Serial: TP-2022
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

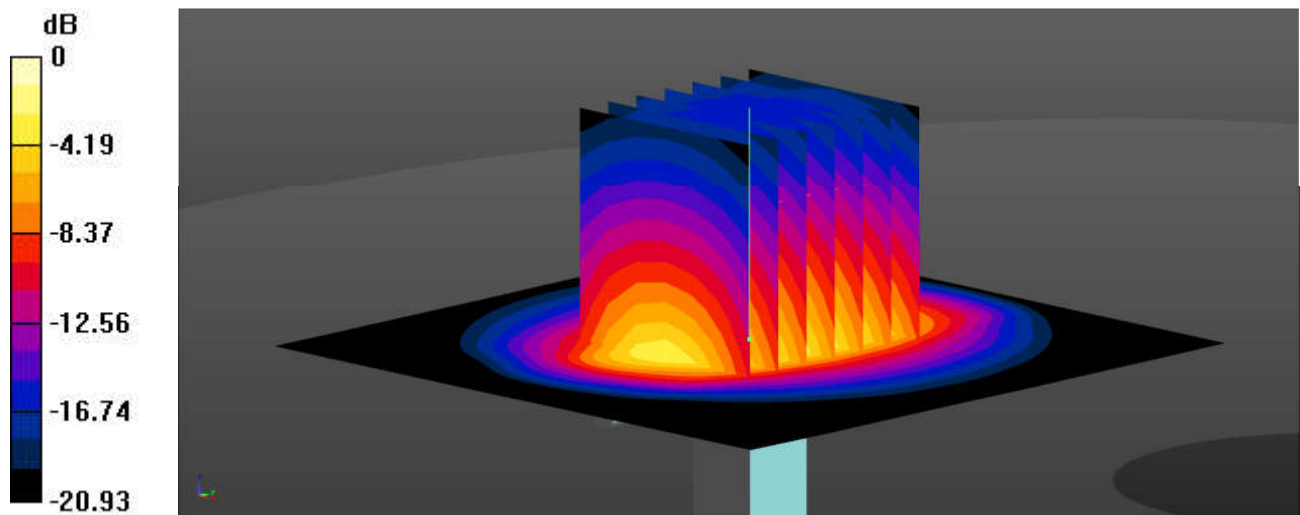
Pin=50mW/Area Scan (71x71x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 3.67 W/kg

Pin=50mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 48.47 V/m; Power Drift = -0.09 dB

Peak SAR (extrapolated) = 4.65 W/kg

SAR(1 g) = 2.24 W/kg; SAR(10 g) = 1.06 W/kg

Maximum value of SAR (measured) = 3.75 W/kg



0 dB = 3.75 W/kg = 5.74 dBW/kg

System Check_Head_2450MHz

DUT: D2450V2 - SN:908

Communication System: UID 0, CW (0); Frequency: 2450 MHz; Duty Cycle: 1:1
Medium: HSL_2450 Medium parameters used: $f = 2450$ MHz; $\sigma = 1.768$ S/m; $\epsilon_r = 39.33$; $\rho = 1000$ kg/m³

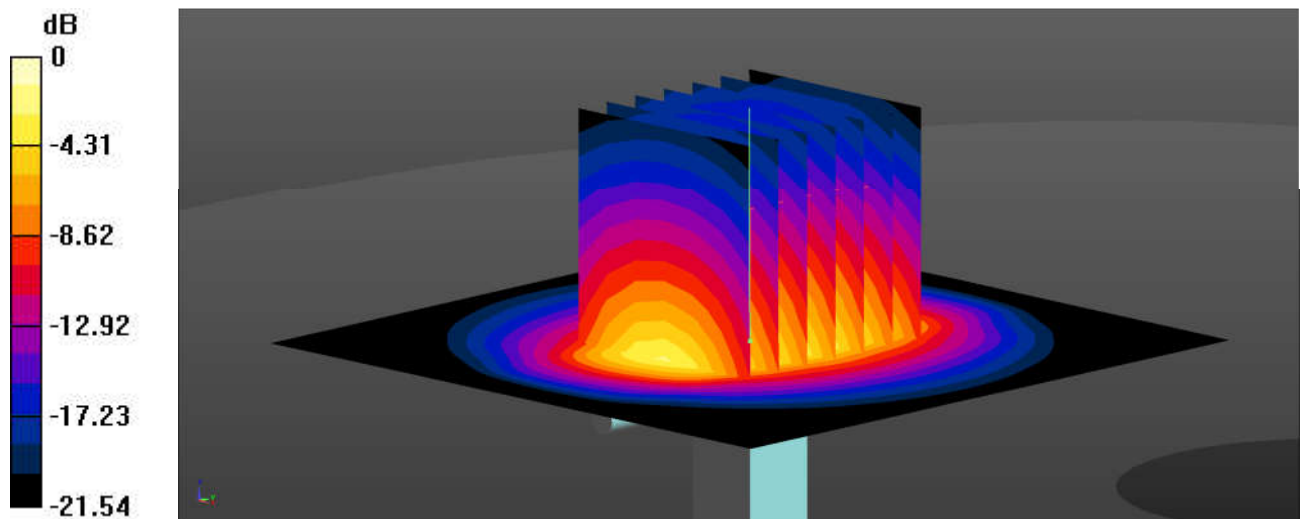
Ambient Temperature : 23.3 °C; Liquid Temperature : 22.6 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7630; ConvF(8.14, 8.14, 8.14); Calibrated: 2021.2.10
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn690; Calibrated: 2021.3.17
- Phantom: SAM Twin Phantom; Type: SAM Twin; Serial: TP-2022
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Pin=50mW/Area Scan (71x71x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 4.00 W/kg

Pin=50mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 48.82 V/m; Power Drift = -0.04 dB
Peak SAR (extrapolated) = 4.87 W/kg
SAR(1 g) = 2.44 W/kg; SAR(10 g) = 1.19 W/kg
Maximum value of SAR (measured) = 3.94 W/kg



0 dB = 3.94 W/kg = 5.95 dBW/kg

System Check_Head_2600MHz

DUT: D2600V2 - SN:1061

Communication System: UID 0, CW (0); Frequency: 2600 MHz; Duty Cycle: 1:1
Medium: HSL_2600 Medium parameters used: $f = 2600$ MHz; $\sigma = 1.881$ S/m; $\epsilon_r = 39.126$; $\rho = 1000$ kg/m³

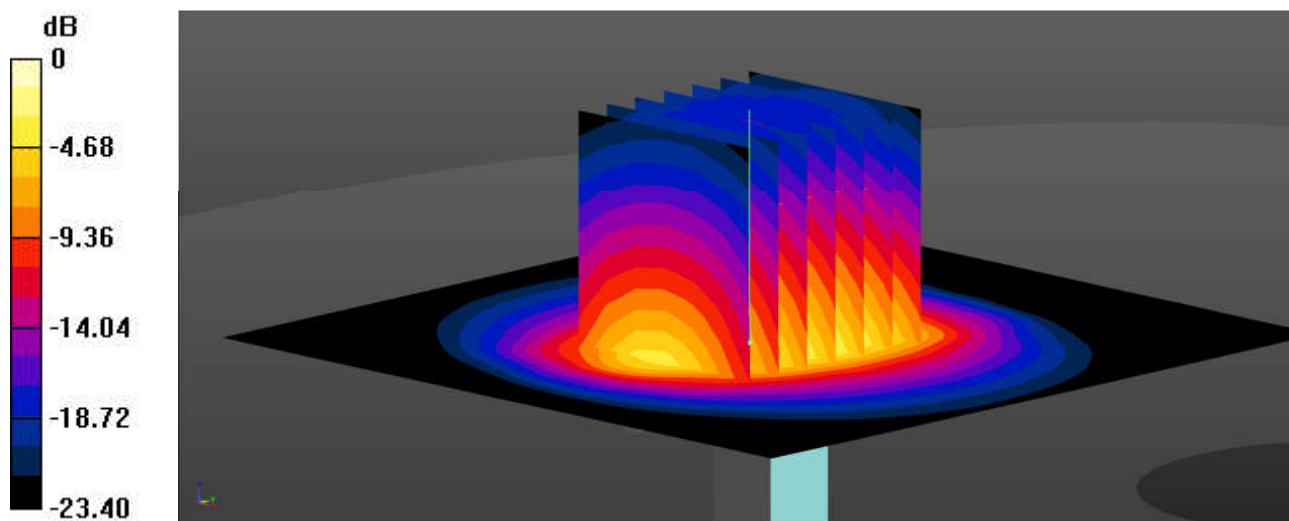
Ambient Temperature : 23.2 °C; Liquid Temperature : 22.6 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7630; ConvF(7.85, 7.85, 7.85); Calibrated: 2021.2.10
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn690; Calibrated: 2021.3.17
- Phantom: SAM Twin Phantom; Type: SAM Twin; Serial: TP-2022
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Pin=50mW/Area Scan (81x81x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 4.18 W/kg

Pin=50mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 48.75 V/m; Power Drift = 0.04 dB
Peak SAR (extrapolated) = 5.16 W/kg
SAR(1 g) = 2.65 W/kg; SAR(10 g) = 1.2 W/kg
Maximum value of SAR (measured) = 4.15 W/kg



0 dB = 4.15 W/kg = 6.18 dBW/kg

System Check_Head_5250MHz

DUT: D5GHzV2 - SN:1113

Communication System: UID 0, CW (0); Frequency: 5250 MHz; Duty Cycle: 1:1
Medium: HSL_5000 Medium parameters used: $f = 5250$ MHz; $\sigma = 4.639$ S/m; $\epsilon_r = 36.202$; $\rho = 1000$ kg/m³

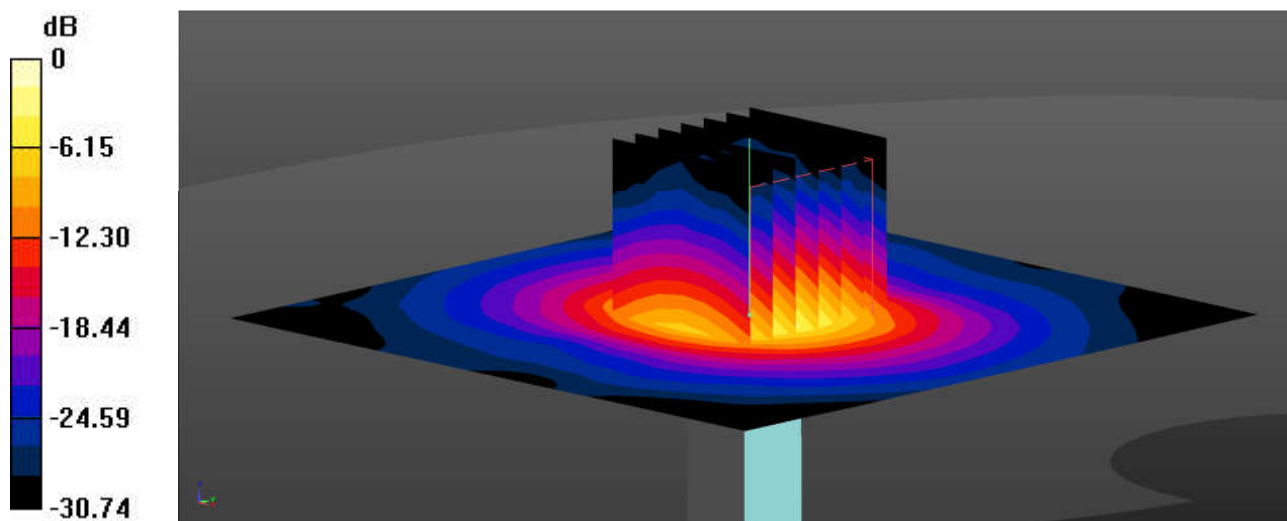
Ambient Temperature : 23.2 °C; Liquid Temperature : 22.7 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7630; ConvF(5.55, 5.55, 5.55); Calibrated: 2021.2.10
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn690; Calibrated: 2021.3.17
- Phantom: SAM Twin Phantom; Type: SAM Twin; Serial: TP-2022
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Pin=50mW/Area Scan (91x91x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 8.19 W/kg

Pin=50mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 48.68 V/m; Power Drift = -0.09 dB
Peak SAR (extrapolated) = 13.9 W/kg
SAR(1 g) = 3.72 W/kg; SAR(10 g) = 1.11 W/kg
Maximum value of SAR (measured) = 8.85 W/kg



0 dB = 8.85 W/kg = 9.47 dBW/kg

System Check_Head_5600MHz

DUT: D5GHzV2 - SN:1113

Communication System: UID 0, CW (0); Frequency: 5600 MHz; Duty Cycle: 1:1
Medium: HSL_5000 Medium parameters used: $f = 5600$ MHz; $\sigma = 4.985$ S/m; $\epsilon_r = 35.576$; $\rho = 1000$ kg/m³

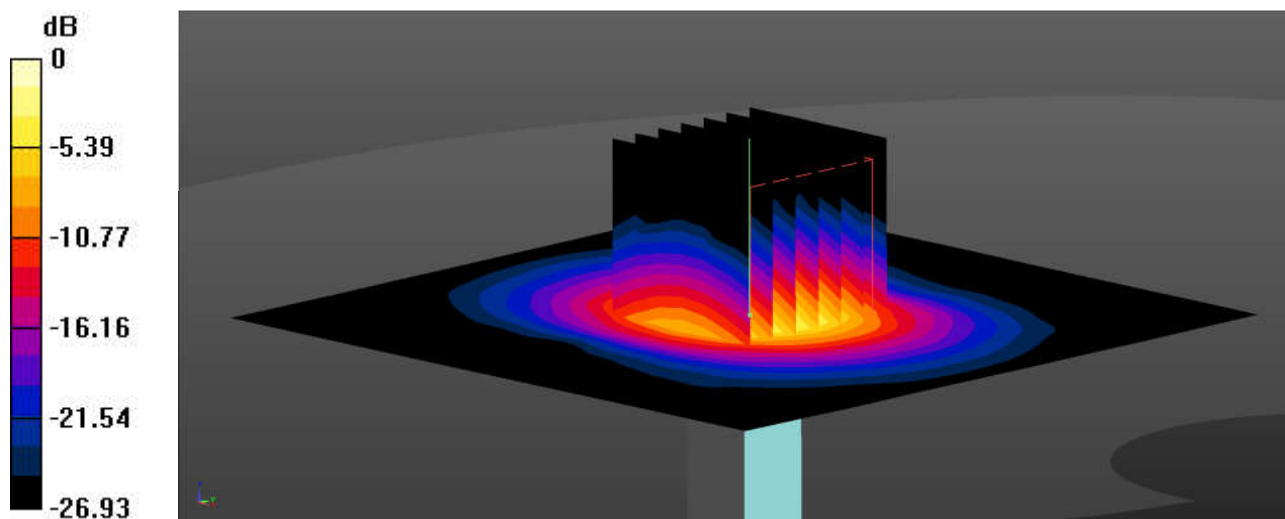
Ambient Temperature : 23.2 °C; Liquid Temperature : 22.7 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7630; ConvF(4.85, 4.85, 4.85); Calibrated: 2021.2.10
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn690; Calibrated: 2021.3.17
- Phantom: SAM Twin Phantom; Type: SAM Twin; Serial: TP-2022
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Pin=50mW/Area Scan (91x91x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 9.37 W/kg

Pin=50mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 49.57 V/m; Power Drift = -0.17 dB
Peak SAR (extrapolated) = 16.5 W/kg
SAR(1 g) = 3.87 W/kg; SAR(10 g) = 1.19 W/kg
Maximum value of SAR (measured) = 9.98 W/kg



0 dB = 9.98 W/kg = 9.99 dBW/kg

System Check_Head_5750MHz

DUT: D5GHzV2 - SN:1113

Communication System: UID 0, CW (0); Frequency: 5750 MHz; Duty Cycle: 1:1
Medium: HSL_5000 Medium parameters used: $f = 5750$ MHz; $\sigma = 5.219$ S/m; $\epsilon_r = 35.281$; $\rho = 1000$ kg/m³

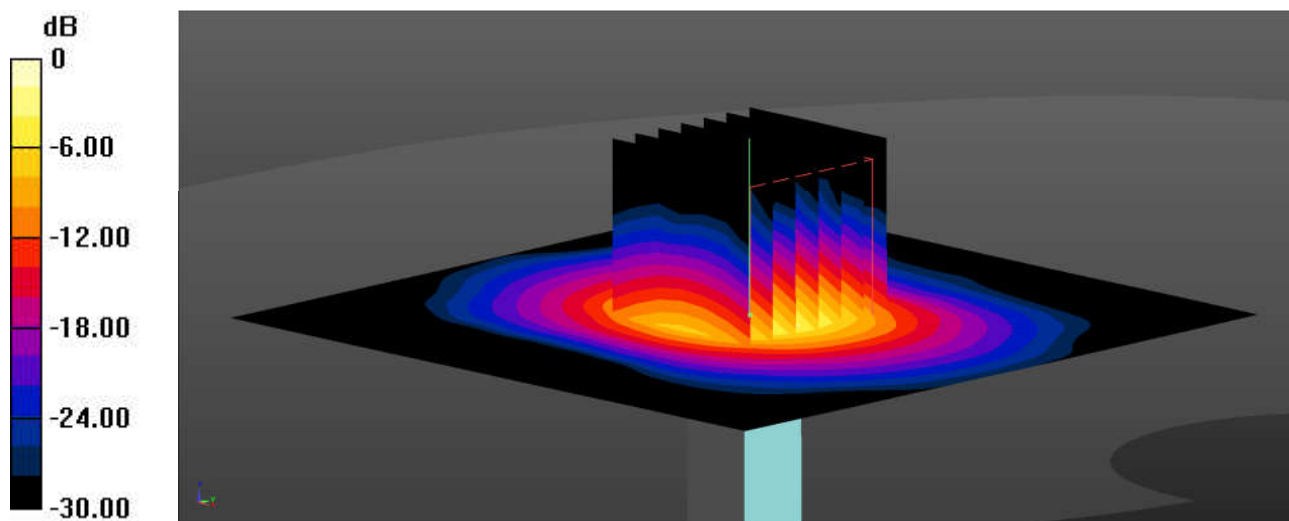
Ambient Temperature : 23.2 °C; Liquid Temperature : 22.7 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7630; ConvF(5.07, 5.07, 5.07); Calibrated: 2021.2.10
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn690; Calibrated: 2021.3.17
- Phantom: SAM Twin Phantom; Type: SAM Twin; Serial: TP-2022
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Pin=50mW/Area Scan (91x91x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm
Maximum value of SAR (interpolated) = 8.48 W/kg

Pin=50mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 46.25 V/m; Power Drift = -0.12 dB
Peak SAR (extrapolated) = 15.9 W/kg
SAR(1 g) = 3.91 W/kg; SAR(10 g) = 1.2 W/kg
Maximum value of SAR (measured) = 9.26 W/kg



0 dB = 9.26 W/kg = 9.67 dBW/kg



Appendix B. Plots of High SAR Measurement

The plots are shown as follows.

01_LTE Band 12_10M_QPSK_1RB_0Offset_Right Cheek_0mm_Ch23095

Communication System: UID 0, LTE-FDD (0); Frequency: 707.5 MHz; Duty Cycle: 1:1
 Medium: HSL_750 Medium parameters used: $f = 707.5 \text{ MHz}$; $\sigma = 0.894 \text{ S/m}$; $\epsilon_r = 43.617$; $\rho = 1000 \text{ kg/m}^3$

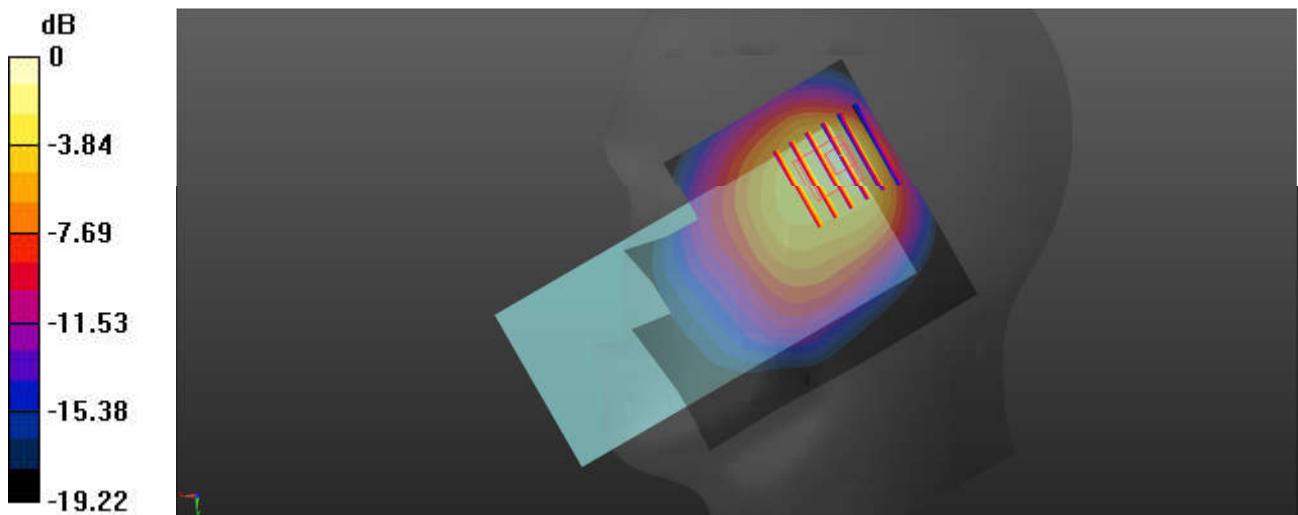
Ambient Temperature : 23.1 °C; Liquid Temperature : 22.7 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7630; ConvF(10.38, 10.38, 10.38); Calibrated: 2021.2.10
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn690; Calibrated: 2021.3.17
- Phantom: SAM Twin Phantom; Type: SAM Twin; Serial: TP-2022
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Area Scan (81x91x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$
 Maximum value of SAR (interpolated) = 1.53 W/kg

Zoom Scan (6x6x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$
 Reference Value = 37.16 V/m; Power Drift = -0.04 dB
 Peak SAR (extrapolated) = 2.03 W/kg
SAR(1 g) = 0.868 W/kg; SAR(10 g) = 0.508 W/kg
 Maximum value of SAR (measured) = 1.50 W/kg



0 dB = 1.50 W/kg = 1.76 dBW/kg

02_LTE Band 13_10M_QPSK_1RB_0Offset_Right Cheek_0mm_Ch23230

Communication System: UID 0, LTE-FDD (0); Frequency: 782 MHz;Duty Cycle: 1:1
Medium: HSL_750 Medium parameters used: $f = 782 \text{ MHz}$; $\sigma = 0.924 \text{ S/m}$; $\epsilon_r = 43.453$; $\rho = 1000 \text{ kg/m}^3$

Ambient Temperature : 23.1 °C; Liquid Temperature : 22.7 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7630; ConvF(10.38, 10.38, 10.38); Calibrated: 2021.2.10
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn690; Calibrated: 2021.3.17
- Phantom: SAM Twin Phantom; Type: SAM Twin; Serial: TP-2022
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Area Scan (81x91x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$

Maximum value of SAR (interpolated) = 1.06 W/kg

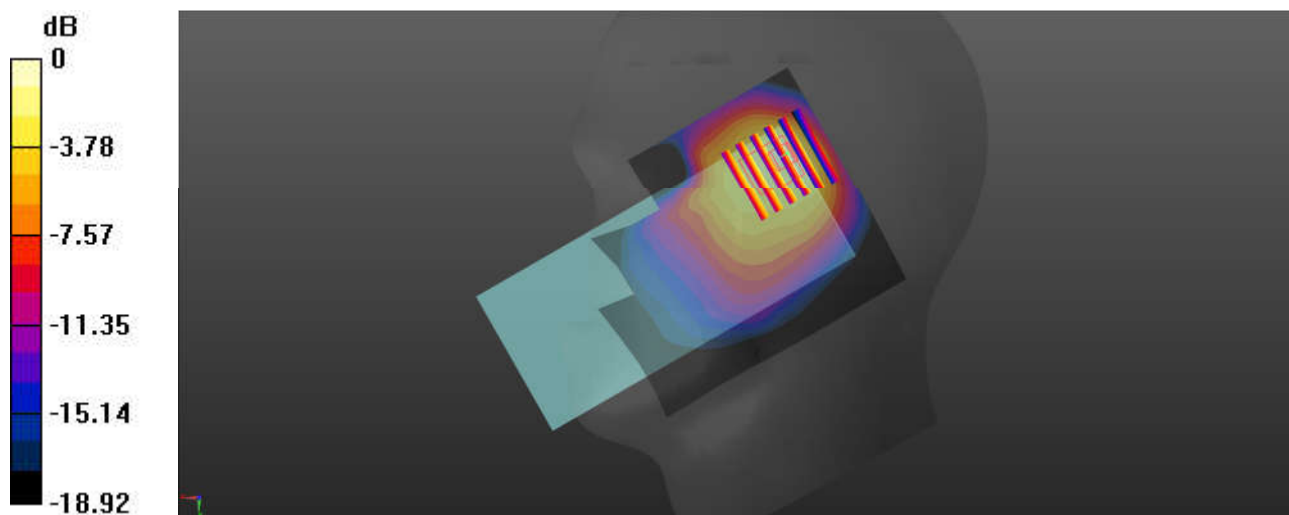
Zoom Scan (6x6x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 33.59 V/m; Power Drift = -0.06 dB

Peak SAR (extrapolated) = 1.49 W/kg

SAR(1 g) = 0.665 W/kg; SAR(10 g) = 0.386 W/kg

Maximum value of SAR (measured) = 1.13 W/kg



0 dB = 1.13 W/kg = 0.53 dBW/kg

03_LTE Band 14_10M_QPSK_1RB_0Offset_Right Cheek_0mm_Ch23330

Communication System: UID 0, LTE-FDD (0); Frequency: 793 MHz;Duty Cycle: 1:1
Medium: HSL_750 Medium parameters used: $f = 793 \text{ MHz}$; $\sigma = 0.926 \text{ S/m}$; $\epsilon_r = 43.4$; $\rho = 1000 \text{ kg/m}^3$

Ambient Temperature : 23.1 °C; Liquid Temperature : 22.7 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7630; ConvF(10.38, 10.38, 10.38); Calibrated: 2021.2.10
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn690; Calibrated: 2021.3.17
- Phantom: SAM Twin Phantom; Type: SAM Twin; Serial: TP-2022
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Area Scan (81x91x1): Interpolated grid: $dx=1.500 \text{ mm}$, $dy=1.500 \text{ mm}$

Maximum value of SAR (interpolated) = 1.02 W/kg

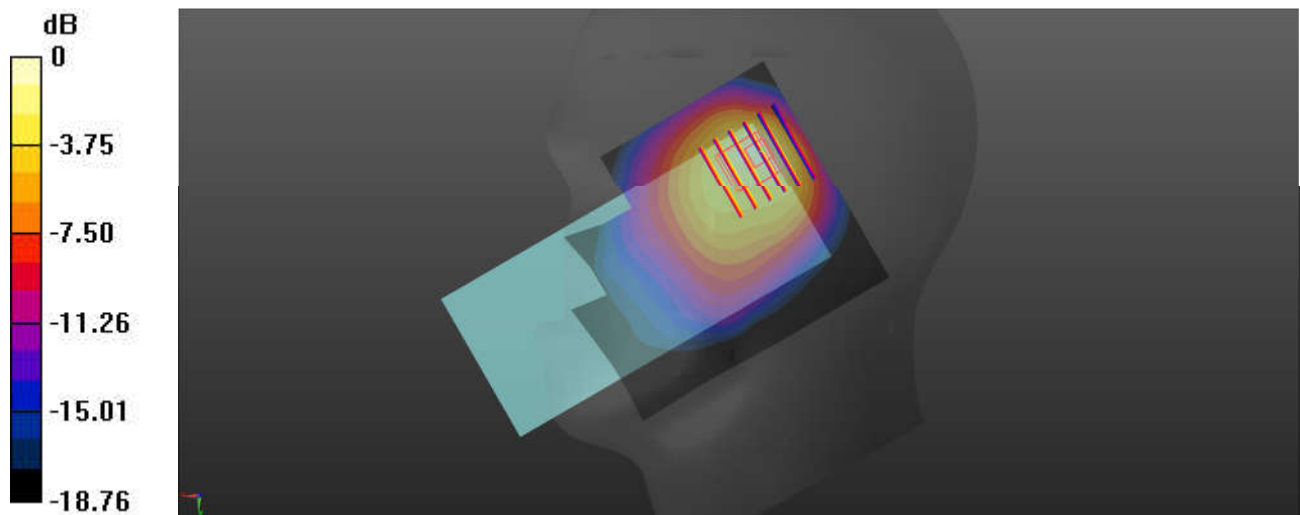
Zoom Scan (6x6x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 33.07 V/m; Power Drift = -0.06 dB

Peak SAR (extrapolated) = 1.42 W/kg

SAR(1 g) = 0.641 W/kg; SAR(10 g) = 0.372 W/kg

Maximum value of SAR (measured) = 1.07 W/kg



0 dB = 1.07 W/kg = 0.29 dBW/kg

04_LTE Band 71_20M_QPSK_1RB_0Offset_Right Cheek_0mm_Ch133322

Communication System: UID 0, LTE-FDD (0); Frequency: 683 MHz;Duty Cycle: 1:1
Medium: HSL_750 Medium parameters used: $f = 683$ MHz; $\sigma = 0.889$ S/m; $\epsilon_r = 43.697$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.1 °C; Liquid Temperature : 22.7 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7630; ConvF(10.38, 10.38, 10.38); Calibrated: 2021.2.10
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn690; Calibrated: 2021.3.17
- Phantom: SAM Twin Phantom; Type: SAM Twin; Serial: TP-2022
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Area Scan (81x91x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.563 W/kg

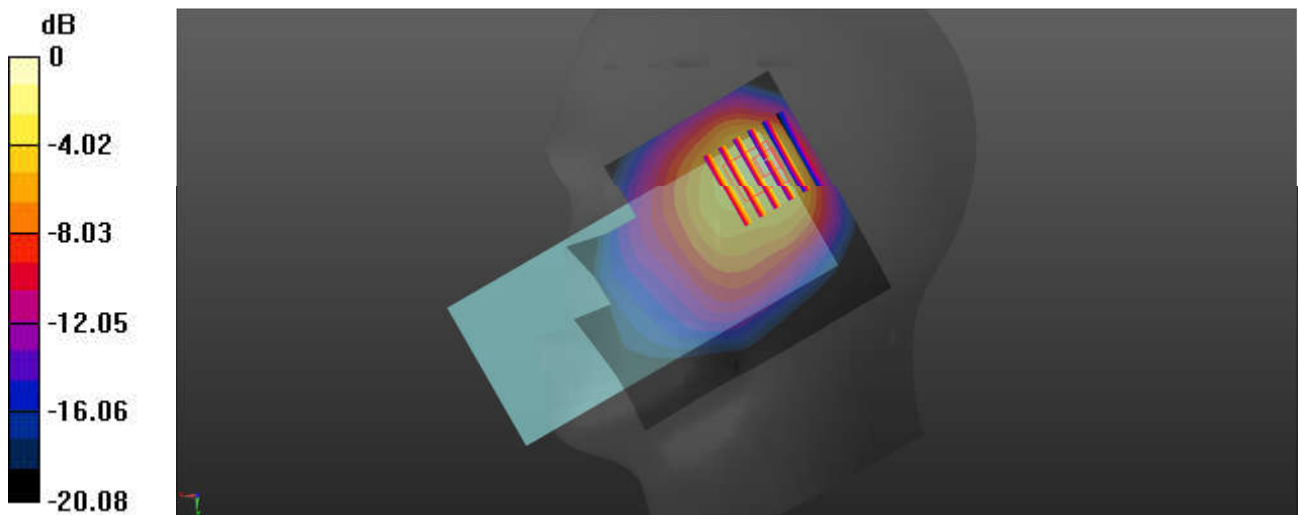
Zoom Scan (6x6x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 24.76 V/m; Power Drift = -0.17 dB

Peak SAR (extrapolated) = 0.914 W/kg

SAR(1 g) = 0.353 W/kg; SAR(10 g) = 0.198 W/kg

Maximum value of SAR (measured) = 0.655 W/kg



0 dB = 0.655 W/kg = -1.84 dBW/kg

05_GSM850_GPRS (4 Tx slots)_Right Cheek_0mm_Ch189

Communication System: UID 0, GSM850 (0); Frequency: 836.4 MHz; Duty Cycle: 1:2.08
Medium: HSL_835 Medium parameters used: $f = 836.4$ MHz; $\sigma = 0.939$ S/m; $\epsilon_r = 42.444$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.3 °C; Liquid Temperature : 22.8 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7630; ConvF(10.24, 10.24, 10.24); Calibrated: 2021.2.10
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn690; Calibrated: 2021.3.17
- Phantom: SAM Twin Phantom; Type: SAM Twin; Serial: TP-2022
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Area Scan (81x81x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.446 W/kg

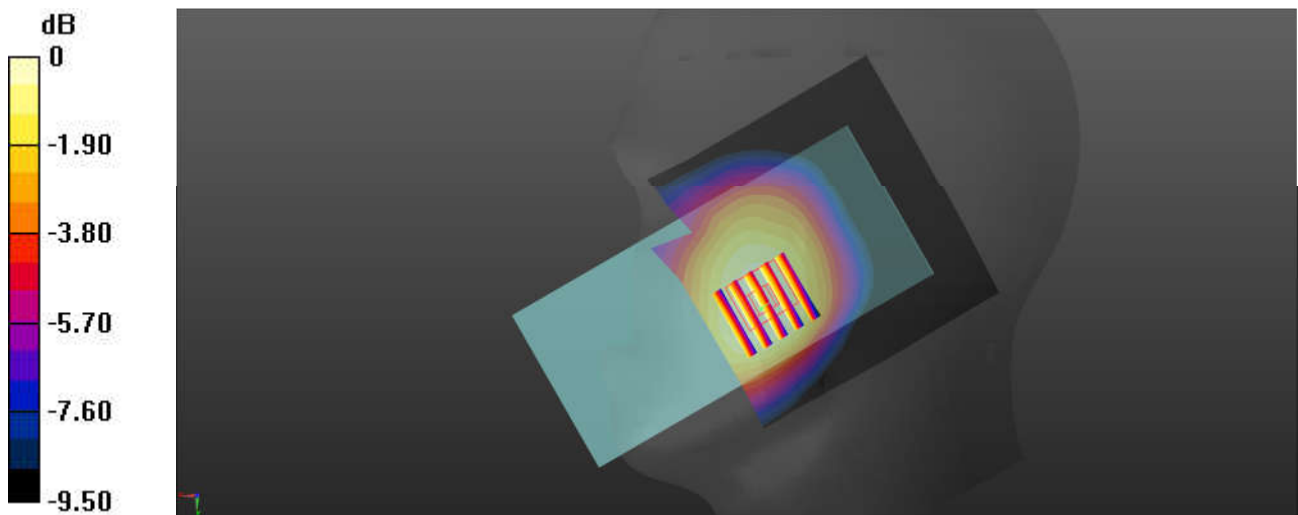
Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 23.00 V/m; Power Drift = -0.04 dB

Peak SAR (extrapolated) = 0.467 W/kg

SAR(1 g) = 0.366 W/kg; SAR(10 g) = 0.281 W/kg

Maximum value of SAR (measured) = 0.432 W/kg



0 dB = 0.432 W/kg = -3.65 dBW/kg

06_WCDMA V_RMC 12.2Kbps_Right Cheek_0mm_Ch4182

Communication System: UID 0, WCDMA (0); Frequency: 836.4 MHz; Duty Cycle: 1:1
Medium: HSL_835 Medium parameters used: $f = 836.4$ MHz; $\sigma = 0.939$ S/m; $\epsilon_r = 42.444$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.3 °C; Liquid Temperature : 22.8 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7630; ConvF(10.24, 10.24, 10.24); Calibrated: 2021.2.10
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn690; Calibrated: 2021.3.17
- Phantom: SAM Twin Phantom; Type: SAM Twin; Serial: TP-2022
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Area Scan (81x91x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 1.80 W/kg

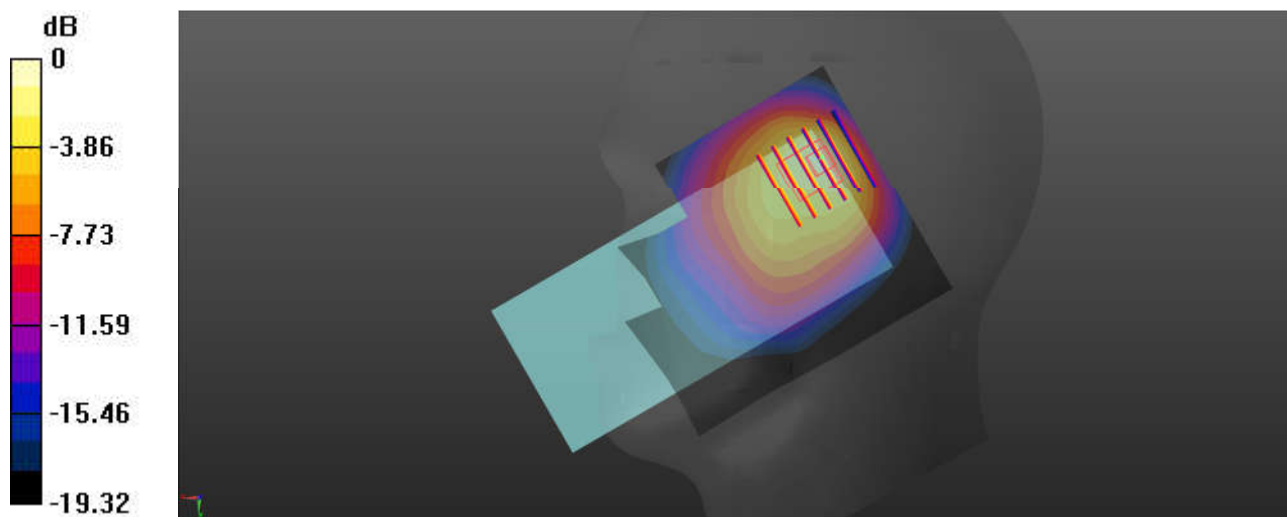
Zoom Scan (6x6x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 42.41 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 2.53 W/kg

SAR(1 g) = 1.02 W/kg; SAR(10 g) = 0.622 W/kg

Maximum value of SAR (measured) = 1.87 W/kg



0 dB = 1.87 W/kg = 2.72 dBW/kg

07_LTE Band 26_15M_QPSK_1RB_0Offset_Right Cheek_0mm_Ch26865

Communication System: UID 0, LTE-FDD (0); Frequency: 831.5 MHz;Duty Cycle: 1:1
Medium: HSL_835 Medium parameters used: $f = 831.5$ MHz; $\sigma = 0.94$ S/m; $\epsilon_r = 43.257$; $\rho = 1000$ kg/m³

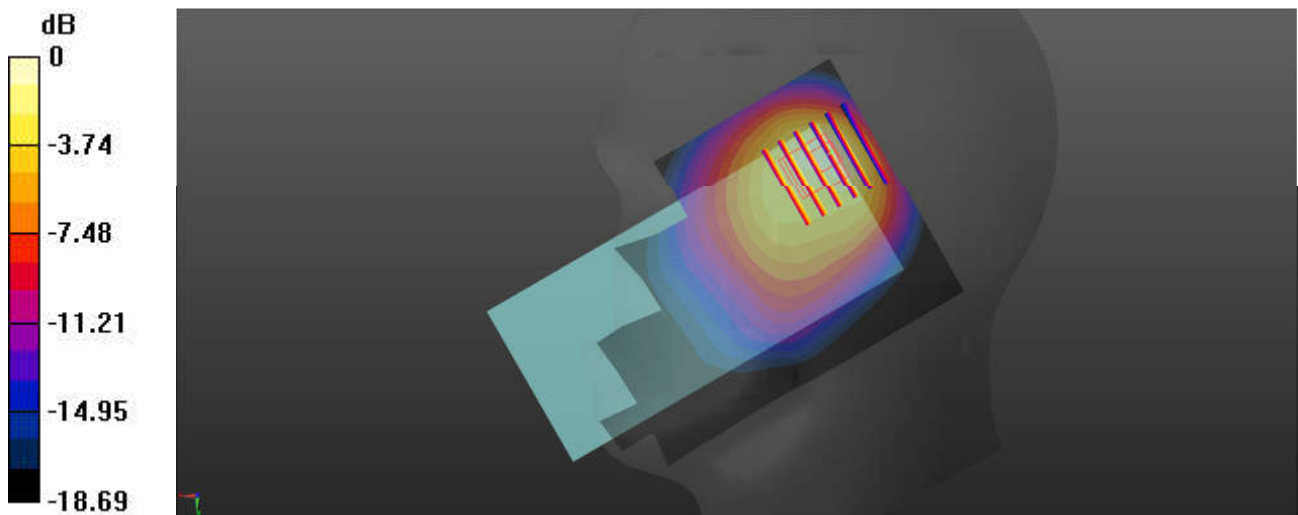
Ambient Temperature : 23.3 °C; Liquid Temperature : 22.8 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7630; ConvF(10.24, 10.24, 10.24); Calibrated: 2021.2.10
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn690; Calibrated: 2021.3.17
- Phantom: SAM Twin Phantom; Type: SAM Twin; Serial: TP-2022
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Area Scan (81x121x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 1.78 W/kg

Zoom Scan (6x6x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 40.50 V/m; Power Drift = -0.04 dB
Peak SAR (extrapolated) = 2.24 W/kg
SAR(1 g) = 1.01 W/kg; SAR(10 g) = 0.598 W/kg
Maximum value of SAR (measured) = 1.69 W/kg



0 dB = 1.69 W/kg = 2.28 dBW/kg

08_WCDMA IV_RMC 12.2Kbps_Left Cheek_0mm_Ch1413

Communication System: UID 0, WCDMA (0); Frequency: 1732.6 MHz; Duty Cycle: 1:1
Medium: HSL_1750 Medium parameters used: $f = 1733$ MHz; $\sigma = 1.347$ S/m; $\epsilon_r = 40.965$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.1 °C; Liquid Temperature : 22.7 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7630; ConvF(8.86, 8.86, 8.86); Calibrated: 2021.2.10
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn690; Calibrated: 2021.3.17
- Phantom: SAM Twin Phantom; Type: SAM Twin; Serial: TP-2022
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Area Scan (81x91x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.153 W/kg

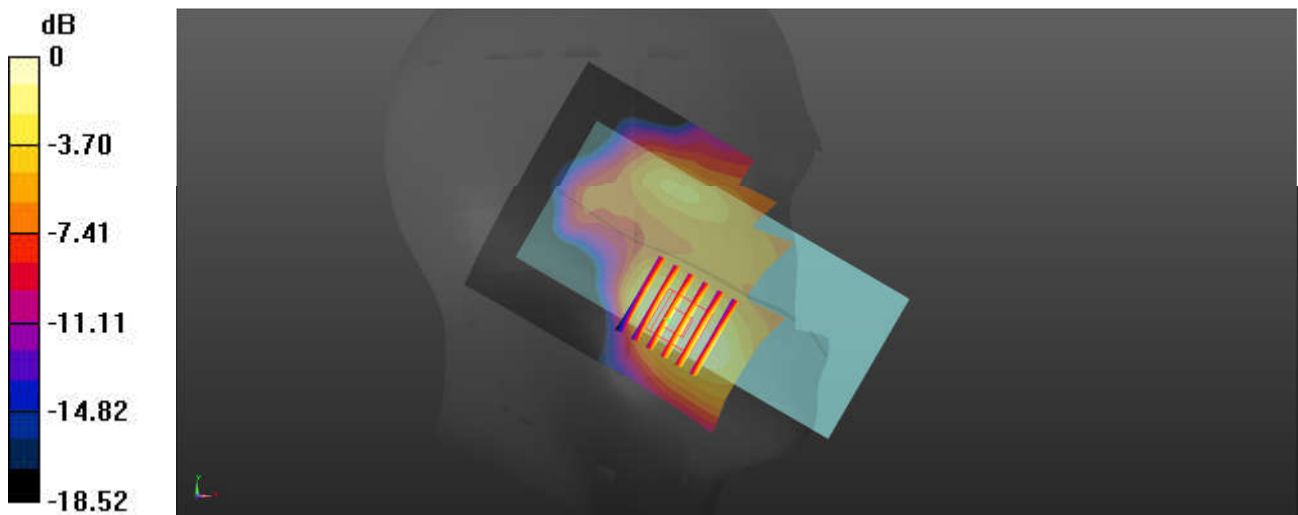
Zoom Scan (6x6x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 10.37 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 0.172 W/kg

SAR(1 g) = 0.108 W/kg; SAR(10 g) = 0.068 W/kg

Maximum value of SAR (measured) = 0.146 W/kg



0 dB = 0.146 W/kg = -8.36 dBW/kg

09_LTE Band 66_20M_QPSK_1RB_0Offset_Left Cheek_0mm_Ch132322

Communication System: UID 0, LTE-FDD (0); Frequency: 1745 MHz; Duty Cycle: 1:1
Medium: HSL_1750 Medium parameters used: $f = 1745$ MHz; $\sigma = 1.355$ S/m; $\epsilon_r = 40.943$; $\rho = 1000$ kg/m³

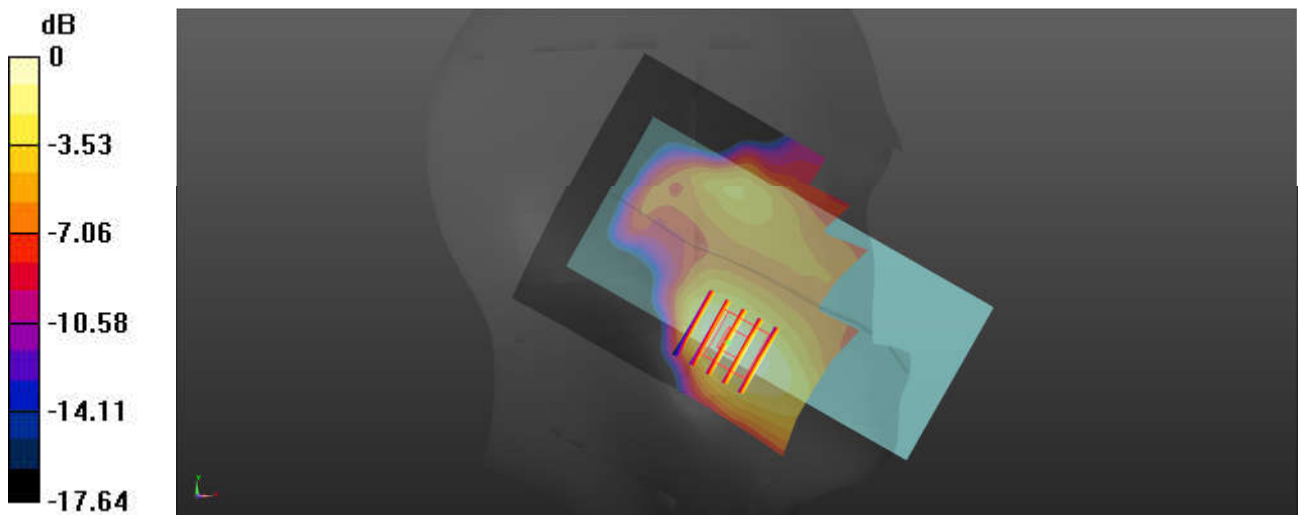
Ambient Temperature : 23.1 °C; Liquid Temperature : 22.7 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7630; ConvF(8.86, 8.86, 8.86); Calibrated: 2021.2.10
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn690; Calibrated: 2021.3.17
- Phantom: SAM Twin Phantom; Type: SAM Twin; Serial: TP-2022
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Area Scan (81x91x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.123 W/kg

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 9.524 V/m; Power Drift = 0.10 dB
Peak SAR (extrapolated) = 0.139 W/kg
SAR(1 g) = 0.089 W/kg; SAR(10 g) = 0.057 W/kg
Maximum value of SAR (measured) = 0.120 W/kg



0 dB = 0.120 W/kg = -9.21 dBW/kg

10_GSM1900_GPRS (4 Tx slots)_Left Cheek_0mm_Ch661

Communication System: UID 0, PCS (0); Frequency: 1880 MHz; Duty Cycle: 1:2.08

Medium: HSL_1900 Medium parameters used: $f = 1880$ MHz; $\sigma = 1.444$ S/m; $\epsilon_r = 40.718$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.1 °C; Liquid Temperature : 22.9 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7630; ConvF(8.56, 8.56, 8.56); Calibrated: 2021.2.10
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn690; Calibrated: 2021.3.17
- Phantom: SAM Twin Phantom; Type: SAM Twin; Serial: TP-2022
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Area Scan (81x81x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.0701 W/kg

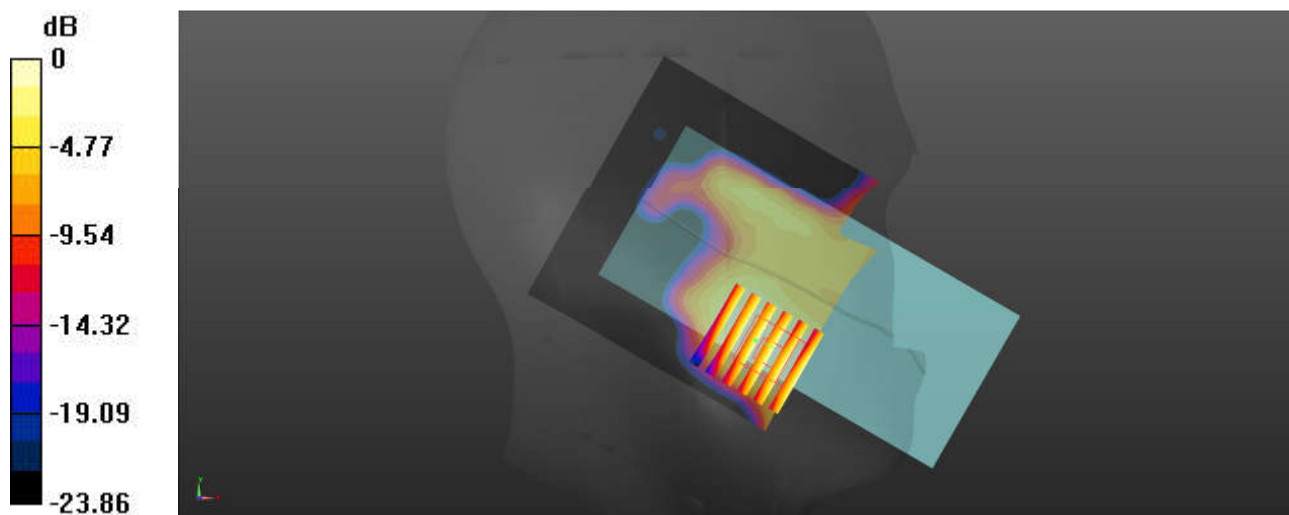
Zoom Scan (6x6x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 6.868 V/m; Power Drift = -0.10 dB

Peak SAR (extrapolated) = 0.0770 W/kg

SAR(1 g) = 0.047 W/kg; SAR(10 g) = 0.030 W/kg

Maximum value of SAR (measured) = 0.0621 W/kg



0 dB = 0.0621 W/kg = -12.07 dBW/kg

11_WCDMA II_RMC 12.2Kbps_Left Cheek_0mm_Ch9400

Communication System: UID 0, WCDMA (0); Frequency: 1880 MHz; Duty Cycle: 1:1
Medium: HSL_1900 Medium parameters used: $f = 1880$ MHz; $\sigma = 1.444$ S/m; $\epsilon_r = 40.718$; $\rho = 1000$ kg/m³

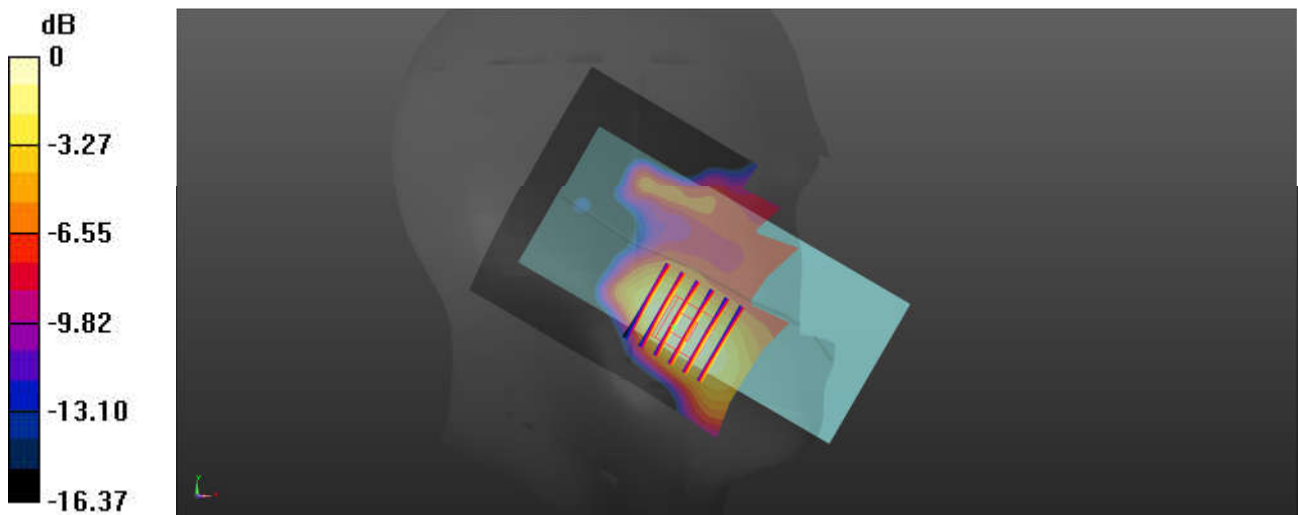
Ambient Temperature : 23.1 °C; Liquid Temperature : 22.9 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7630; ConvF(8.56, 8.56, 8.56); Calibrated: 2021.2.10
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn690; Calibrated: 2021.3.17
- Phantom: SAM Twin Phantom; Type: SAM Twin; Serial: TP-2022
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Area Scan (81x91x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 0.163 W/kg

Zoom Scan (6x6x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 10.19 V/m; Power Drift = 0.08 dB
Peak SAR (extrapolated) = 0.191 W/kg
SAR(1 g) = 0.112 W/kg; SAR(10 g) = 0.067 W/kg
Maximum value of SAR (measured) = 0.157 W/kg



0 dB = 0.157 W/kg = -8.04 dBW/kg

12_LTE Band 25_20M_QPSK_1RB_0Offset_Left Cheek_0mm_Ch26340

Communication System: UID 0, LTE-FDD (0); Frequency: 1880 MHz; Duty Cycle: 1:1
Medium: HSL_1900 Medium parameters used: $f = 1880$ MHz; $\sigma = 1.444$ S/m; $\epsilon_r = 40.707$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.1 °C; Liquid Temperature : 22.9 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7630; ConvF(8.56, 8.56, 8.56); Calibrated: 2021.2.10
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn690; Calibrated: 2021.3.17
- Phantom: SAM Twin Phantom; Type: SAM Twin; Serial: TP-2022
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Area Scan (81x91x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm

Maximum value of SAR (interpolated) = 0.145 W/kg

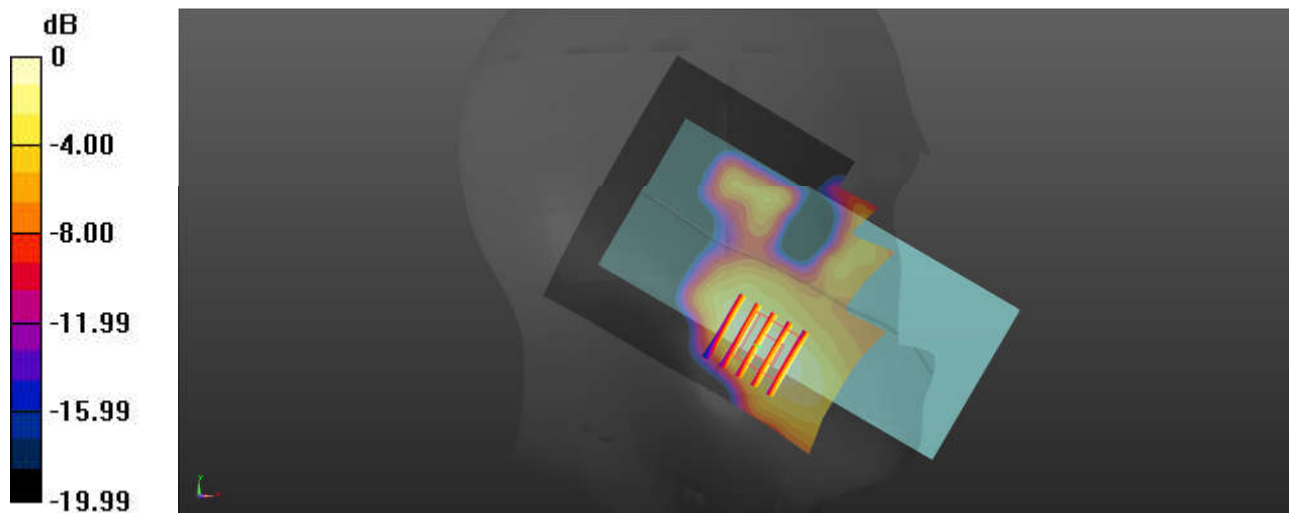
Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 9.803 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 0.166 W/kg

SAR(1 g) = 0.099 W/kg; SAR(10 g) = 0.062 W/kg

Maximum value of SAR (measured) = 0.139 W/kg



0 dB = 0.139 W/kg = -8.57 dBW/kg

13_LTE Band 30_10M_QPSK_1RB_0Offset_Left Cheek_0mm_Ch27710

Communication System: UID 0, LTE-FDD (0); Frequency: 2310 MHz; Duty Cycle: 1:1
Medium: HSL_2300 Medium parameters used: $f = 2310$ MHz; $\sigma = 1.769$ S/m; $\epsilon_r = 41.068$; $\rho = 1000$ kg/m³

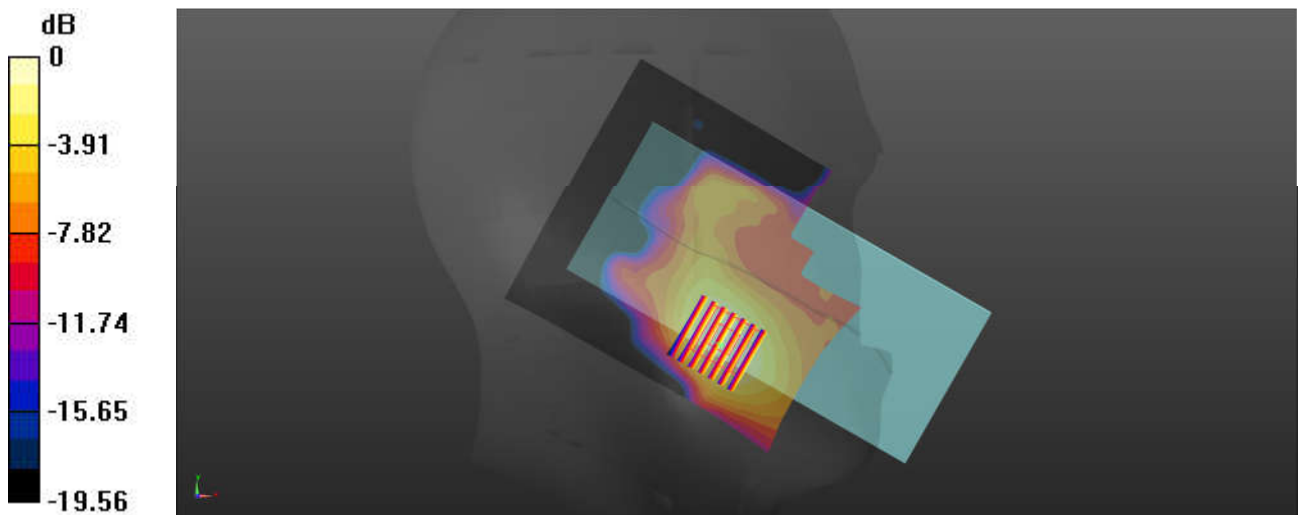
Ambient Temperature : 23.2 °C; Liquid Temperature : 22.7 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7630; ConvF(8.44, 8.44, 8.44); Calibrated: 2021.2.10
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn690; Calibrated: 2021.3.17
- Phantom: SAM Twin Phantom; Type: SAM Twin; Serial: TP-2022
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Area Scan (101x111x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
Maximum value of SAR (interpolated) = 0.385 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 15.35 V/m; Power Drift = -0.15 dB
Peak SAR (extrapolated) = 0.472 W/kg
SAR(1 g) = 0.263 W/kg; SAR(10 g) = 0.149 W/kg
Maximum value of SAR (measured) = 0.384 W/kg



0 dB = 0.384 W/kg = -4.16 dBW/kg

14_LTE Band 7_20M_QPSK_1RB_0Offset_Left Cheek_0mm_Ch21100

Communication System: UID 0, LTE-FDD (0); Frequency: 2535 MHz; Duty Cycle: 1:1
 Medium: HSL_2600 Medium parameters used: $f = 2535$ MHz; $\sigma = 1.938$ S/m; $\epsilon_r = 40.664$; $\rho = 1000$ kg/m³

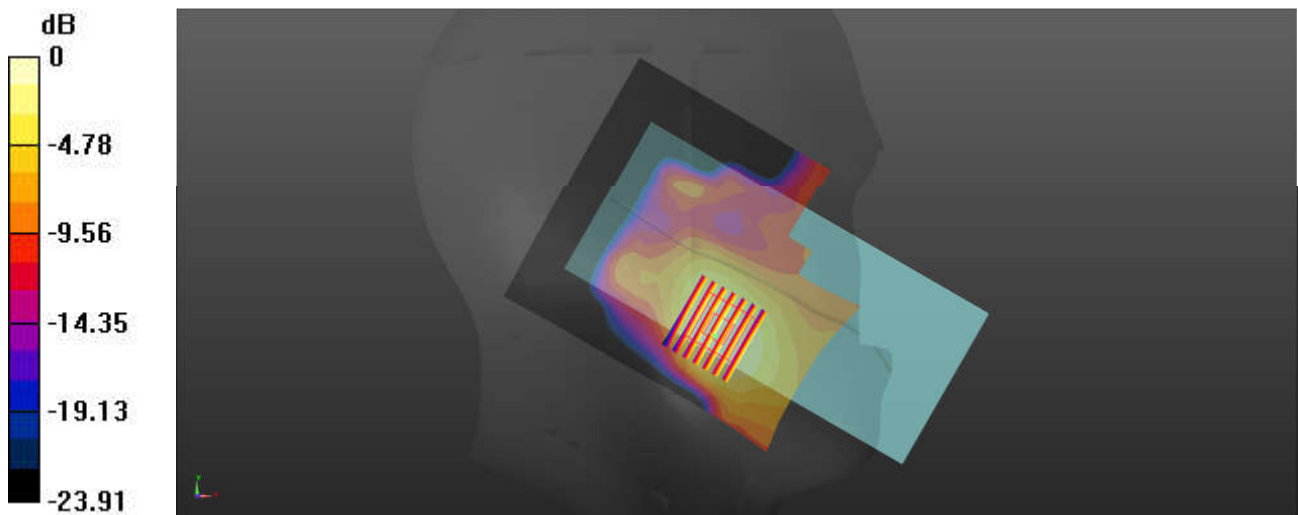
Ambient Temperature : 23.2 °C; Liquid Temperature : 22.6 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7630; ConvF(7.85, 7.85, 7.85); Calibrated: 2021.2.10
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn690; Calibrated: 2021.3.17
- Phantom: SAM Twin Phantom; Type: SAM Twin; Serial: TP-2022
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Area Scan (101x111x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm
 Maximum value of SAR (interpolated) = 0.501 W/kg

Zoom Scan (8x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
 Reference Value = 16.40 V/m; Power Drift = 0.14 dB
 Peak SAR (extrapolated) = 0.610 W/kg
SAR(1 g) = 0.348 W/kg; SAR(10 g) = 0.189 W/kg
 Maximum value of SAR (measured) = 0.505 W/kg



0 dB = 0.505 W/kg = -2.97 dBW/kg

15_LTE Band 38_20M_QPSK_1RB_0Offset_Left Cheek_0mm_Ch38000

Communication System: UID 0, LTE-TDD (0); Frequency: 2595 MHz; Duty Cycle: 1:1.59
Medium: HSL_2600 Medium parameters used: $f = 2595$ MHz; $\sigma = 1.979$ S/m; $\epsilon_r = 40.631$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.2 °C; Liquid Temperature : 22.6 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7630; ConvF(7.85, 7.85, 7.85); Calibrated: 2021.2.10
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn690; Calibrated: 2021.3.17
- Phantom: SAM Twin Phantom; Type: SAM Twin; Serial: TP-2022
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

Area Scan (101x111x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 0.311 W/kg

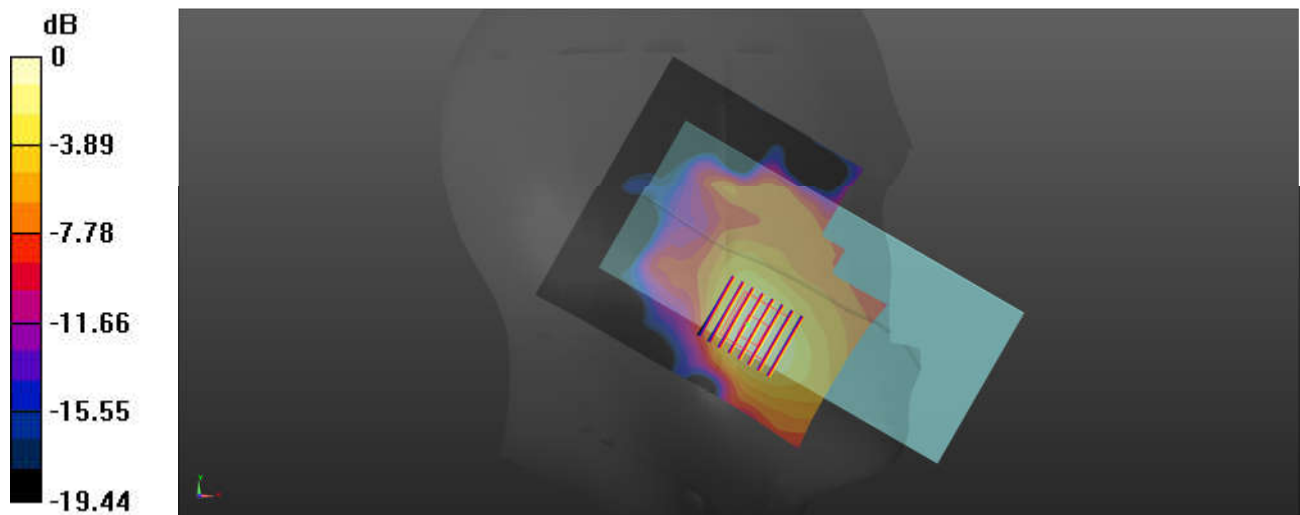
Zoom Scan (7x8x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 1.048 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 0.345 W/kg

SAR(1 g) = 0.193 W/kg; SAR(10 g) = 0.105 W/kg

Maximum value of SAR (measured) = 0.282 W/kg



0 dB = 0.282 W/kg = -5.50 dBW/kg