



FCC SAR Test Report

Report No. : FA230110-01

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Mode	Test Position	Gap (mm)	Antenna	Headset	Power State	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																					
61	LTE Band 7	20M	QPSK	1	0	-	Front	5mm	Ant 0	-	DSI3	21100	2535	18.33	19.50	1.309	-	-	-0.11	0.512	0.670
	LTE Band 7	20M	QPSK	50	0	-	Front	5mm	Ant 0	-	DSI3	21100	2535	18.26	19.50	1.330	-	-	0.08	0.417	0.555
	LTE Band 7	20M	QPSK	1	0	-	Back	5mm	Ant 0	-	DSI3	21100	2535	18.33	19.50	1.309	-	-	0.05	1.07	1.401
	LTE Band 7	20M	QPSK	1	0	-	Back	5mm	Ant 0	Headset	DSI3	21100	2535	18.33	19.50	1.309	-	-	0.06	0.813	1.064
	LTE Band 7 inter band	20M	QPSK	1	99	-	Back	5mm	Ant 0	-	DSI3	21100 +21298	2535 +2554.8	18.29	19.50	1.321	-	-	0.03	0.905	1.196
	LTE Band 7	20M	QPSK	1	0	-	Back	5mm	Ant 0	-	DSI3	20850	2510	18.31	19.50	1.315	-	-	-0.07	1.00	1.315
	LTE Band 7	20M	QPSK	1	0	-	Back	5mm	Ant 0	-	DSI3	21350	2560	18.23	19.50	1.340	-	-	-0.04	0.986	1.321
	LTE Band 7	20M	QPSK	50	0	-	Back	5mm	Ant 0	-	DSI3	21100	2535	18.26	19.50	1.330	-	-	0.02	0.864	1.150
	LTE Band 7	20M	QPSK	50	0	-	Back	5mm	Ant 0	-	DSI3	20850	2510	18.21	19.50	1.346	-	-	0.18	0.775	1.043
	LTE Band 7	20M	QPSK	50	0	-	Back	5mm	Ant 0	-	DSI3	21350	2560	18.16	19.50	1.361	-	-	0.08	0.869	1.183
	LTE Band 7	20M	QPSK	100	0	-	Back	5mm	Ant 0	-	DSI3	21100	2535	18.25	19.50	1.334	-	-	-0.18	0.788	1.051
	LTE Band 7 ENDC	20M	QPSK	1	0	-	Back	5mm	Ant 0	-	DSI3	21100	2535	14.41	15.50	1.285	-	-	0.05	0.426	0.548
	LTE Band 7	20M	QPSK	1	0	-	Front	10mm	Ant 0	-	DSI4	21100	2535	22.78	24.00	1.324	-	-	-0.11	0.388	0.514
	LTE Band 7	20M	QPSK	1	0	-	Back	17mm	Ant 0	-	DSI4	21100	2535	22.78	24.00	1.324	-	-	-0.17	0.379	0.502
	LTE Band 7	20M	QPSK	1	0	-	Front	5mm	Ant 4	-	DSI3	21100	2535	15.13	15.50	1.089	-	-	-0.04	0.214	0.233
62	LTE Band 7	20M	QPSK	50	0	-	Front	5mm	Ant 4	-	DSI3	21100	2535	15.11	15.50	1.094	-	-	-0.02	0.171	0.187
	LTE Band 7	20M	QPSK	1	0	-	Back	5mm	Ant 4	-	DSI3	21100	2535	15.13	15.50	1.089	-	-	0.06	0.510	0.555
	LTE Band 7	20M	QPSK	50	0	-	Back	5mm	Ant 4	-	DSI3	21100	2535	15.11	15.50	1.094	-	-	0.02	0.388	0.424
	LTE Band 7	20M	QPSK	1	0	-	Front	10mm	Ant 4	-	DSI4	21100	2535	23.49	24.00	1.125	-	-	0.09	0.113	0.127
	LTE Band 7	20M	QPSK	1	0	-	Back	17mm	Ant 4	-	DSI4	21100	2535	23.49	24.00	1.125	-	-	-0.08	0.329	0.370
	FR1 n7	40M	QPSK	1	1	DFT-15	Front	5mm	Ant 0	-	DSI3	507000	2535	19.83	21.00	1.309	-	-	-0.16	0.574	0.751
	FR1 n7	40M	QPSK	108	54	DFT-15	Front	5mm	Ant 0	-	DSI3	507000	2535	19.70	21.00	1.349	-	-	-0.14	0.541	0.730
	FR1 n7	40M	QPSK	1	1	DFT-15	Back	5mm	Ant 0	-	DSI3	507000	2535	19.83	21.00	1.309	-	-	-0.02	1.03	1.348
	FR1 n7	40M	QPSK	1	1	DFT-15	Back	5mm	Ant 0	Headset	DSI3	507000	2535	19.83	21.00	1.309	-	-	0.06	0.821	1.075
	FR1 n7	40M	QPSK	1	1	DFT-15	Back	5mm	Ant 0	-	DSI3	504000	2520	19.79	21.00	1.321	-	-	-0.17	0.974	1.287
	FR1 n7	40M	QPSK	1	1	DFT-15	Back	5mm	Ant 0	-	DSI3	510000	2550	19.71	21.00	1.346	-	-	0.17	0.921	1.240
	FR1 n7	40M	QPSK	108	54	DFT-15	Back	5mm	Ant 0	-	DSI3	507000	2535	19.70	21.00	1.349	-	-	0.13	0.977	1.318
	FR1 n7	40M	QPSK	108	54	DFT-15	Back	5mm	Ant 0	-	DSI3	504000	2520	19.65	21.00	1.365	-	-	0.08	0.958	1.307
	FR1 n7	40M	QPSK	108	54	DFT-15	Back	5mm	Ant 0	-	DSI3	510000	2550	19.69	21.00	1.352	-	-	0.05	0.987	1.334
	FR1 n7	40M	QPSK	216	0	DFT-15	Back	5mm	Ant 0	-	DSI3	507000	2535	19.65	20.00	1.084	-	-	-0.18	0.991	1.074
63	FR1 n7	40M	QPSK	1	1	DFT-15	Back	5mm	Ant 0	-	DSI3	507000	2535	19.83	21.00	1.309	-	-	0.11	0.428	0.560
	FR1 n7	40M	QPSK	108	54	DFT-15	Back	5mm	Ant 0	-	DSI3	507000	2535	19.70	21.00	1.349	-	-	0.03	0.402	0.542
	FR1 n7 ENDC	40M	QPSK	1	1	DFT-15	Back	5mm	Ant 0	-	DSI3	507000	2535	15.90	17.00	1.288	-	-	0.03	0.449	0.578
	FR1 n7	40M	QPSK	1	1	DFT-15	Front	10mm	Ant 0	-	DSI4	507000	2535	22.84	24.00	1.306	-	-	0.02	0.503	0.657
	FR1 n7	40M	QPSK	1	1	DFT-15	Back	17mm	Ant 0	-	DSI4	507000	2535	22.84	24.00	1.306	-	-	0.07	0.399	0.521
	LTE Band 41	20M	QPSK	1	0	-	Front	5mm	Ant 0	-	DSI3	40620	2593	19.83	21.00	1.309	62.9	1.006	0.02	0.435	0.573
	LTE Band 41	20M	QPSK	50	0	-	Front	5mm	Ant 0	-	DSI3	40620	2593	19.69	21.00	1.352	62.9	1.006	0.14	0.377	0.513
	LTE Band 41	20M	QPSK	1	0	-	Back	5mm	Ant 0	-	DSI3	40620	2593	19.83	21.00	1.309	62.9	1.006	0.07	0.959	1.263
	LTE Band 41	20M	QPSK	1	0	-	Back	5mm	Ant 0	Headset	DSI3	40620	2593	19.83	21.00	1.309	62.9	1.006	0.03	0.799	1.052
	LTE Band 41	20M	QPSK	1	0	-	Back	5mm	Ant 0	-	DSI3	39750	2506	19.67	21.00	1.358	62.9	1.006	0.02	0.910	1.243
	LTE Band 41	20M	QPSK	1	0	-	Back	5mm	Ant 0	-	DSI3	40185	2549.5	19.61	21.00	1.377	62.9	1.006	0.02	0.901	1.248
	LTE Band 41	20M	QPSK	1	0	-	Back	5mm	Ant 0	-	DSI3	41055	2636.5	19.69	21.00	1.352	62.9	1.006	-0.05	0.856	1.164
	LTE Band 41	20M	QPSK	1	0	-	Back	5mm	Ant 0	-	DSI3	41490	2680	19.76	21.00	1.330	62.9	1.006	0.08	0.746	0.998
	LTE Band 41	20M	QPSK	50	0	-	Back	5mm	Ant 0	-	DSI3	40620	2593	19.69	21.00	1.352	62.9	1.006	0.06	0.770	1.047
	LTE Band 41	20M	QPSK	50	0	-	Back	5mm	Ant 0	-	DSI3	39750	2506	19.62	21.00	1.374	62.9	1.006	0.03	0.707	0.977
	LTE Band 41	20M	QPSK	50	0	-	Back	5mm	Ant 0	-	DSI3	39790	2510	19.58	21.00	1.387	62.9	1.006	-0.11	0.614	0.857
	LTE Band 41	20M	QPSK	50	0	-	Back	5mm	Ant 0	-	DSI3	40185	2549.5	19.65	21.00	1.365	62.9	1.006	0.08	0.789	1.083
	LTE Band 41	20M	QPSK	50	0	-	Back	5mm	Ant 0	-	DSI3	41055	2636.5	19.65	21.00	1.365	62.9	1.006	0.01	0.541	0.743
	LTE Band 41	20M	QPSK	50	0	-	Back	5mm	Ant 0	-	DSI3	41490	2680	19.51	21.00	1.409	62.9	1.006	0.1	0.686	0.973
	LTE Band 41	20M	QPSK	100	0	-	Back	5mm	Ant 0	-	DSI3	40620	2593	19.65	21.00	1.365	62.9	1.006	0.03	0.670	0.920
	LTE Band 41	20M	QPSK	1	0	-	Front	10mm	Ant 0	-	DSI4	40620	2593	22.67	24.00	1.358	62.9	1.006	-0.19	0.346	0.473
	LTE Band 41	20M	QPSK	1	0	-	Back	17mm	Ant 0	-	DSI4	40620	2593	22.67	24.00	1.358	62.9	1.006	0.08	0.206	0.281



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3500MHz																				
	LTE Band 42	20M	QPSK	1	0	-	Front	5mm	Ant 5	DSI3	42590	3500	21.88	22.50	1.153	62.9	1.006	-0.02	0.350	0.406
	LTE Band 42	20M	QPSK	50	0	-	Front	5mm	Ant 5	DSI3	42590	3500	21.86	22.50	1.159	62.9	1.006	0.03	0.213	0.248
64	LTE Band 42	20M	QPSK	1	0	-	Back	5mm	Ant 5	DSI3	42590	3500	21.88	22.50	1.153	62.9	1.006	0.06	0.881	1.022
	LTE Band 42	20M	QPSK	1	0	-	Back	5mm	Ant 5	DSI3	42190	3460	21.74	22.50	1.191	62.9	1.006	-0.05	0.799	0.958
	LTE Band 42	20M	QPSK	1	0	-	Back	5mm	Ant 5	DSI3	42990	3540	21.77	22.50	1.183	62.9	1.006	-0.07	0.852	1.014
	LTE Band 42	20M	QPSK	50	0	-	Back	5mm	Ant 5	DSI3	42590	3500	21.86	22.50	1.159	62.9	1.006	0.02	0.740	0.863
	LTE Band 42	20M	QPSK	50	0	-	Back	5mm	Ant 5	DSI3	42190	3460	21.78	22.50	1.180	62.9	1.006	-0.17	0.699	0.830
	LTE Band 42	20M	QPSK	50	0	-	Back	5mm	Ant 5	DSI3	42990	3540	21.81	22.50	1.172	62.9	1.006	-0.1	0.701	0.827
	LTE Band 42	20M	QPSK	100	0	-	Back	5mm	Ant 5	DSI3	42590	3500	21.82	22.50	1.169	62.9	1.006	0.05	0.621	0.731
	LTE Band 42	20M	QPSK	1	0	-	Front	10mm	Ant 5	DSI4	42590	3500	23.37	24.00	1.156	62.9	1.006	-0.19	0.255	0.297
	LTE Band 42	20M	QPSK	1	0	-	Back	17mm	Ant 5	DSI4	42590	3500	23.37	24.00	1.156	62.9	1.006	0.07	0.302	0.351
	FR1 n78 Part27Q	100M	QPSK	1	1	DFT-30	Front	5mm	Ant 5	DSI3	633334	3500.01	19.93	21.00	1.279	-	-	0.01	0.329	0.421
	FR1 n78 Part27Q	100M	QPSK	135	69	DFT-30	Front	5mm	Ant 5	DSI3	633334	3500.01	19.85	21.00	1.303	-	-	-0.03	0.315	0.410
	FR1 n78 Part27Q	100M	QPSK	1	1	DFT-30	Back	5mm	Ant 5	DSI3	633334	3500.01	19.93	21.00	1.279	-	-	0.06	0.774	0.990
65	FR1 n78 Part27Q	100M	QPSK	135	69	DFT-30	Back	5mm	Ant 5	DSI3	633334	3500.01	19.85	21.00	1.303	-	-	-0.06	0.829	1.080
	FR1 n78 Part27Q	100M	QPSK	270	0	DFT-30	Back	5mm	Ant 5	DSI3	633334	3500.01	19.84	21.00	1.306	-	-	-0.01	0.694	0.906
	FR1 n78 Part27Q ENDC	100M	QPSK	135	69	DFT-30	Back	5mm	Ant 5	DSI3	633334	3500.01	16.92	18.00	1.282	-	-	0.03	0.422	0.541
	FR1 n78 Part27Q	100M	QPSK	1	1	DFT-30	Front	10mm	Ant 5	DSI4	633334	3500.01	22.90	24.00	1.288	-	-	0.01	0.287	0.370
	FR1 n78 Part27Q	100M	QPSK	135	69	DFT-30	Back	17mm	Ant 5	DSI4	633334	3500.01	22.84	24.00	1.306	-	-	0.03	0.307	0.401
	FR1 n78 Part27Q	100M	QPSK	1	1	DFT-30	Front	5mm	Ant 0	DSI4	633334	3500.01	20.07	21.50	1.390	-	-	0.14	0.069	0.096
	FR1 n78 Part27Q	100M	QPSK	135	69	DFT-30	Front	5mm	Ant 0	DSI4	633334	3500.01	19.97	21.50	1.422	-	-	0.06	0.044	0.063
	FR1 n78 Part27Q	100M	QPSK	1	1	DFT-30	Back	5mm	Ant 0	DSI4	633334	3500.01	20.07	21.50	1.390	-	-	0.01	0.263	0.366
	FR1 n78 Part27Q	100M	QPSK	135	69	DFT-30	Back	5mm	Ant 0	DSI4	633334	3500.01	19.97	21.50	1.422	-	-	-0.09	0.155	0.220
	FR1 n78 Part27Q	100M	QPSK	1	1	DFT-30	Front	5mm	Ant 3	DSI3	633334	3500.01	18.77	20.00	1.327	-	-	0.03	0.135	0.179
	FR1 n78 Part27Q	100M	QPSK	135	69	DFT-30	Front	5mm	Ant 3	DSI3	633334	3500.01	18.65	20.00	1.365	-	-	-0.02	0.105	0.143
	FR1 n78 Part27Q	100M	QPSK	1	1	DFT-30	Back	5mm	Ant 3	DSI3	633334	3500.01	18.77	20.00	1.327	-	-	0.03	0.620	0.823
	FR1 n78 Part27Q	100M	QPSK	135	69	DFT-30	Back	5mm	Ant 3	DSI3	633334	3500.01	18.65	20.00	1.365	-	-	0.03	0.556	0.759
	FR1 n78 Part27Q	100M	QPSK	270	0	DFT-30	Back	5mm	Ant 3	DSI3	633334	3500.01	18.59	20.00	1.384	-	-	0.06	0.535	0.740
	FR1 n78 Part27Q	100M	QPSK	1	1	DFT-30	Front	5mm	Ant 8	DSI3	633334	3500.01	17.84	18.50	1.164	-	-	-0.13	0.037	0.043
	FR1 n78 Part27Q	100M	QPSK	135	69	DFT-30	Front	5mm	Ant 8	DSI3	633334	3500.01	17.78	18.50	1.180	-	-	0.06	0.004	0.005
	FR1 n78 Part27Q	100M	QPSK	1	1	DFT-30	Back	5mm	Ant 8	DSI3	633334	3500.01	17.84	18.50	1.164	-	-	-0.01	0.489	0.569
	FR1 n78 Part27Q	100M	QPSK	135	69	DFT-30	Back	5mm	Ant 8	DSI3	633334	3500.01	17.78	18.50	1.180	-	-	0	0.521	0.615

Plot No.	Band	Mode	Test Position	Gap (mm)	Antenna	Power State	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)
WIFI																
	WLAN2.4GHz	802.11b 1Mbps	Front	5mm	Ant 6	Standalone	11	2462	18.99	20.50	1.416	99.31	1.007	0.03	0.318	0.453
	WLAN2.4GHz	802.11b 1Mbps	Back	5mm	Ant 6	Standalone	11	2462	18.99	20.50	1.416	99.31	1.007	0.01	0.778	1.109
66	WLAN2.4GHz	802.11b 1Mbps	Back	5mm	Ant 6	Standalone	6	2437	18.97	20.50	1.422	99.31	1.007	0.09	0.787	1.127
	WLAN2.4GHz	802.11b 1Mbps	Back	5mm	Ant 6	Simultaneous	6	2437	11.43	13.00	1.435	99.31	1.007	0.03	0.157	0.227
	WLAN2.4GHz	802.11b 1Mbps	Front	10mm	Ant 6	Standalone	11	2462	18.99	20.5	1.416	99.31	1.007	0.03	0.1	0.143
	WLAN2.4GHz	802.11b 1Mbps	Back	17mm	Ant 6	Standalone	6	2437	18.97	20.5	1.422	99.31	1.007	0.09	0.062	0.089
67	Bluetooth	1Mbps	Back	5mm	Ant 6	Full	00	2402	10.49	11.50	1.262	77.22	1.295	0.03	0.113	0.185
	Bluetooth	1Mbps	Front	10mm	Ant 6	Full power	00	2402	10.49	11.5	1.262	77.22	1.295	0.01	0.028	0.046
	Bluetooth	1Mbps	Back	17mm	Ant 6	Full power	00	2402	10.49	11.5	1.262	77.22	1.295	-0.11	0.054	0.088
	WLAN5.3GHz	802.11a 6Mbps	Front	5mm	Ant 6	Standalone	60	5300	18.13	19.50	1.372	98.96	1.011	-0.05	0.143	0.198
68	WLAN5.3GHz	802.11a 6Mbps	Back	5mm	Ant 6	Standalone	60	5300	18.13	19.50	1.372	98.96	1.011	0.07	0.349	0.484
	WLAN5.3GHz	802.11ac-VHT80 MCS0	Back	5mm	Ant 6	Simultaneous	58	5290	12.34	13.50	1.306	92.75	1.078	0.16	0.109	0.153
	WLAN5.3GHz	802.11a 6Mbps	Front	10mm	Ant 6	Standalone	60	5300	18.13	19.50	1.372	98.96	1.011	0.03	0.032	0.044



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	WLAN5.3GHz	802.11a 6Mbps	Back	17mm	Ant 6	Standalone	60	5300	18.13	19.50	1.372	98.96	1.011	-0.11	0.034	0.047
	WLAN5.5GHz	802.11a 6Mbps	Front	5mm	Ant 6	Standalone	116	5580	18.21	19.50	1.347	98.96	1.011	-0.12	0.271	0.369
	WLAN5.5GHz	802.11a 6Mbps	Back	5mm	Ant 6	Standalone	116	5580	18.21	19.50	1.347	98.96	1.011	0.03	0.801	1.091
69	WLAN5.5GHz	802.11a 6Mbps	Back	5mm	Ant 6	Standalone	100	5500	18.17	19.50	1.360	98.96	1.011	0	0.809	1.112
	WLAN5.5GHz	802.11ac-VHT80 MCS0	Back	5mm	Ant 6	Simultaneous	106	5530	10.65	12.00	1.365	92.75	1.078	0.04	0.144	0.212
	WLAN5.5GHz	802.11a 6Mbps	Front	10mm	Ant 6	Standalone	116	5580	18.21	19.50	1.347	98.96	1.011	0.01	0.057	0.078
	WLAN5.5GHz	802.11a 6Mbps	Back	17mm	Ant 6	Standalone	100	5500	18.17	19.50	1.360	98.96	1.011	-0.02	0.062	0.085
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Front	5mm	Ant 6	Standalone	155	5775	12.77	14.00	1.327	92.75	1.078	-0.18	0.106	0.152
70	WLAN5.8GHz	802.11ac-VHT80 MCS0	Back	5mm	Ant 6	Standalone	155	5775	12.77	14.00	1.327	92.75	1.078	0.06	0.702	1.005
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Back	5mm	Ant 6	Simultaneous	155	5775	5.66	7.00	1.361	92.75	1.078	0.15	0.126	0.185
	WLAN5.8GHz	802.11a 6Mbps	Front	10mm	Ant 6	Full	165	5825	18.32	19.50	1.312	98.96	1.011	0.06	0.111	0.147
	WLAN5.8GHz	802.11a 6Mbps	Back	17mm	Ant 6	Full	165	5825	18.32	19.50	1.312	98.96	1.011	0.09	0.139	0.184

15.4 Product specific 10g SAR

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Mode	Test Position	Gap (mm)	Antenna	Power State	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)
830MHz																		
71	WCDMA V					RMC 12.2Kbps	Back	0mm	Ant 1	DS14	4182	836.4	22.26	24.00	1.493	0.1	1.75	2.612
	WCDMA V					RMC 12.2Kbps	Back	0mm	Ant 1	DS14	4132	826.4	22.21	24.00	1.510	-0.15	1.71	2.582
	WCDMA V					RMC 12.2Kbps	Back	0mm	Ant 1	DS14	4233	846.6	22.23	24.00	1.503	0.16	1.68	2.525
72	LTE Band 26	15M	QPSK	1	0		Back	0mm	Ant 1	DS14	26865	831.5	22.51	24.00	1.409	0.14	0.545	0.768

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Mode	Test Position	Gap (mm)	Antenna	Power State	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)
1750MHz																		
	WCDMA IV					RMC 12.2Kbps	Front	0mm	Ant 1	DS16	1413	1732.6	20.59	22.00	1.384	0.15	0.96	1.328
73	WCDMA IV					RMC 12.2Kbps	Back	0mm	Ant 1	DS16	1413	1732.6	20.59	22.00	1.384	0.09	2.37	3.279
	WCDMA IV					RMC 12.2Kbps	Back	0mm	Ant 1	DS16	1312	1712.4	20.48	22.00	1.419	0.04	2.2	3.122
	WCDMA IV					RMC 12.2Kbps	Back	0mm	Ant 1	DS16	1513	1752.6	20.44	22.00	1.432	0.02	2.24	3.208
	WCDMA IV					RMC 12.2Kbps	Bottom Side	0mm	Ant 1	DS16	1413	1732.6	20.59	22.00	1.384	0.07	1.26	1.743
	WCDMA IV					RMC 12.2Kbps	Front	8mm	Ant 1	DS14	1413	1732.6	22.41	24.00	1.442	0.09	0.356	0.513
	WCDMA IV					RMC 12.2Kbps	Back	14mm	Ant 1	DS14	1413	1732.6	22.41	24.00	1.442	-0.06	0.199	0.287
	WCDMA IV					RMC 12.2Kbps	Bottom Side	11mm	Ant 1	DS14	1413	1732.6	22.41	24.00	1.442	0.01	0.579	0.835
	LTE Band 4	20M	QPSK	1	0		Front	0mm	Ant 1	DS16	20175	1732.5	15.52	17	1.406	-0.14	0.421	0.592
	LTE Band 4	20M	QPSK	50	0		Front	0mm	Ant 1	DS16	20175	1732.5	15.41	17	1.442	0.05	0.401	0.578
	LTE Band 4	20M	QPSK	1	0		Back	0mm	Ant 1	DS16	20175	1732.5	15.52	17	1.406	-0.14	0.671	0.943
	LTE Band 4	20M	QPSK	50	0		Back	0mm	Ant 1	DS16	20175	1732.5	15.41	17	1.442	0.05	0.511	0.737
74	LTE Band 4	20M	QPSK	1	0		Bottom Side	0mm	Ant 1	DS16	20175	1732.5	15.52	17	1.406	-0.17	0.702	0.987
	LTE Band 4	20M	QPSK	50	0		Bottom Side	0mm	Ant 1	DS16	20175	1732.5	15.41	17	1.442	-0.03	0.601	0.867
	LTE Band 4	20M	QPSK	1	0		Front	8mm	Ant 1	DS14	20175	1732.5	22.41	24.00	1.442	-0.02	0.122	0.176
	LTE Band 4	20M	QPSK	1	0		Back	14mm	Ant 1	DS14	20175	1732.5	22.41	24.00	1.442	-0.02	0.114	0.164
	LTE Band 4	20M	QPSK	1	0		Bottom Side	11mm	Ant 1	DS14	20175	1732.5	22.41	24.00	1.442	0.09	0.341	0.492
	LTE Band 66	20M	QPSK	1	0		Front	0mm	Ant 1	DS16	132322	1745	20.60	22.00	1.380	-0.03	1.12	1.546
	LTE Band 66	20M	QPSK	50	0		Front	0mm	Ant 1	DS16	132322	1745	20.53	22.00	1.403	-0.03	0.997	1.399
	LTE Band 66	20M	QPSK	1	0		Back	0mm	Ant 1	DS16	132322	1745	20.60	22.00	1.380	-0.13	2.34	3.23
	LTE Band 66	20M	QPSK	1	0		Back	0mm	Ant 1	DS16	132072	1720	20.54	22.00	1.400	0.03	2.2	3.079
	LTE Band 66	20M	QPSK	1	0		Back	0mm	Ant 1	DS16	132572	1770	20.42	22.00	1.439	0.02	2.12	3.05
	LTE Band 66	20M	QPSK	50	0		Back	0mm	Ant 1	DS16	132322	1745	20.53	22.00	1.403	0.03	1.42	1.992
	LTE Band 66	20M	QPSK	100	0		Back	0mm	Ant 1	DS16	132322	1745	20.51	22.00	1.409	0.06	1.41	1.987
75	LTE Band 66	20M	QPSK	1	0		Bottom Side	0mm	Ant 1	DS16	132322	1745	20.60	22.00	1.380	0.02	2.44	3.368
	LTE Band 66	20M	QPSK	1	0		Bottom Side	0mm	Ant 1	DS16	132072	1720	20.54	22.00	1.400	-0.17	2.16	3.023
	LTE Band 66	20M	QPSK	1	0		Bottom Side	0mm	Ant 1	DS16	132572	1770	20.42	22.00	1.439	-0.05	2.1	3.021
	LTE Band 66	20M	QPSK	50	0		Bottom Side	0mm	Ant 1	DS16	132322	1745	20.53	22.00	1.403	-0.03	1.45	2.034
	LTE Band 66	20M	QPSK	50	0		Bottom Side	0mm	Ant 1	DS16	132072	1720	20.49	22.00	1.416	0.08	1.32	1.869



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	LTE Band 66	20M	QPSK	50	0		Bottom Side	0mm	Ant 1	DSI6	132572	1770	20.37	22.00	1.455	-0.18	1.28	1.863
	LTE Band 66	20M	QPSK	100	0		Bottom Side	0mm	Ant 1	DSI6	132322	1745	20.51	22.00	1.409	0.08	1.44	2.029
	LTE Band 66	20M	QPSK	1	0		Front	8mm	Ant 1	DSI4	132322	1745	22.45	24.00	1.429	0.06	0.289	0.413
	LTE Band 66	20M	QPSK	1	0		Back	14mm	Ant 1	DSI4	132322	1745	22.45	24.00	1.429	-0.02	0.159	0.227
	LTE Band 66	20M	QPSK	1	0		Bottom Side	11mm	Ant 1	DSI4	132322	1745	22.45	24.00	1.429	0.09	0.449	0.642
	FR1 n66	40M	QPSK	1	1	DFT-15	Front	0mm	Ant 1	DSI6	349000	1745	19.58	21	1.387	0.03	0.751	1.041
	FR1 n66	40M	QPSK	108	54	DFT-15	Front	0mm	Ant 1	DSI6	349000	1745	19.49	21	1.416	0.05	0.699	0.99
	FR1 n66	40M	QPSK	1	1	DFT-15	Back	0mm	Ant 1	DSI6	349000	1745	19.58	21	1.387	0.03	0.995	1.38
	FR1 n66	40M	QPSK	108	54	DFT-15	Back	0mm	Ant 1	DSI6	349000	1745	19.49	21	1.416	0.05	0.902	1.277
76	FR1 n66	40M	QPSK	1	1	DFT-15	Bottom Side	0mm	Ant 1	DSI6	349000	1745	19.58	21	1.387	-0.02	1.01	1.401
	FR1 n66	40M	QPSK	108	54	DFT-15	Bottom Side	0mm	Ant 1	DSI6	349000	1745	19.49	21	1.416	0.01	0.985	1.395
	FR1 n66	40M	QPSK	1	1	DFT-15	Front	8mm	Ant 1	DSI6	349000	1745	19.58	21	1.387	0.03	0.233	0.323
	FR1 n66	40M	QPSK	1	1	DFT-15	Back	14mm	Ant 1	DSI6	349000	1745	19.58	21	1.387	0.03	0.123	0.171
	FR1 n66	40M	QPSK	1	1	DFT-15	Bottom Side	11mm	Ant 1	DSI6	349000	1745	19.58	21	1.387	-0.02	0.318	0.441
1900MHz																		
77	GSM1900					GPRS (2 Tx slots)	Back	0mm	Ant 1	DSI4	661	1880	28.64	29.00	1.086	0.19	2.22	2.412
	GSM1900					GPRS (2 Tx slots)	Back	0mm	Ant 1	DSI4	512	1850.2	28.80	29.00	1.047	0.1	1.7	1.78
	GSM1900					GPRS (2 Tx slots)	Back	0mm	Ant 1	DSI4	810	1909.8	28.42	29.00	1.143	-0.17	2.02	2.309
	GSM1900					GPRS (2 Tx slots)	Bottom Side	0mm	Ant 1	DSI4	661	1880	28.64	29.00	1.086	0.16	1.91	2.075
	GSM1900					GPRS (2 Tx slots)	Bottom Side	0mm	Ant 1	DSI4	512	1850.2	28.80	29.00	1.047	0.08	2.05	2.147
	GSM1900					GPRS (2 Tx slots)	Bottom Side	0mm	Ant 1	DSI4	810	1909.8	28.42	29.00	1.143	-0.17	1.94	2.217
	WCDMA II					RMC 12.2Kbps	Front	0mm	Ant 1	DSI6	9400	1880	17.96	19.50	1.426	0.11	1.08	1.54
	WCDMA II					RMC 12.2Kbps	Back	0mm	Ant 1	DSI6	9400	1880	17.96	19.50	1.426	0.04	1.19	1.696
	WCDMA II					RMC 12.2Kbps	Bottom Side	0mm	Ant 1	DSI6	9400	1880	17.96	19.50	1.426	0.07	2.23	3.179
78	WCDMA II					RMC 12.2Kbps	Bottom Side	0mm	Ant 1	DSI6	9538	1907.6	17.89	19.50	1.449	-0.13	2.31	3.347
	WCDMA II					RMC 12.2Kbps	Bottom Side	0mm	Ant 1	DSI6	9262	1852.4	17.94	19.50	1.432	-0.11	2.06	2.95
	WCDMA II					RMC 12.2Kbps	Front	8mm	Ant 1	DSI4	9400	1880	22.42	24.00	1.439	-0.03	0.561	0.807
	WCDMA II					RMC 12.2Kbps	Back	14mm	Ant 1	DSI4	9400	1880	22.42	24.00	1.439	0.08	0.688	0.99
	WCDMA II					RMC 12.2Kbps	Bottom Side	11mm	Ant 1	DSI4	9538	1907.6	22.33	24.00	1.469	-0.14	0.949	1.394
	LTE Band 2	20M	QPSK	1	0		Front	0mm	Ant 1	DSI6	18900	1880	18.49	20	1.416	-0.15	1.09	1.543
	LTE Band 2	20M	QPSK	50	0		Front	0mm	Ant 1	DSI6	18900	1880	18.44	20	1.432	0.06	1.04	1.489
	LTE Band 2	20M	QPSK	1	0		Back	0mm	Ant 1	DSI6	18900	1880	18.49	20	1.416	0.04	1.38	1.954
	LTE Band 2	20M	QPSK	50	0		Back	0mm	Ant 1	DSI6	18900	1880	18.44	20	1.432	0.04	1.35	1.933
	LTE Band 2	20M	QPSK	1	0		Bottom Side	0mm	Ant 1	DSI6	18900	1880	18.49	20	1.416	-0.06	1.77	2.506
	LTE Band 2	20M	QPSK	1	0		Bottom Side	0mm	Ant 1	DSI6	18700	1860	18.44	20	1.432	0.02	1.74	2.492
79	LTE Band 2	20M	QPSK	1	0		Bottom Side	0mm	Ant 1	DSI6	19100	1900	18.35	20	1.462	-0.09	2.21	3.231
	LTE Band 2	20M	QPSK	50	0		Bottom Side	0mm	Ant 1	DSI6	18900	1880	18.44	20	1.432	0.15	1.51	2.163
	LTE Band 2	20M	QPSK	50	0		Bottom Side	0mm	Ant 1	DSI6	18700	1860	18.39	20	1.449	0.02	1.46	2.115
	LTE Band 2	20M	QPSK	50	0		Bottom Side	0mm	Ant 1	DSI6	19100	1900	18.37	20	1.455	0.06	1.68	2.445
	LTE Band 2	20M	QPSK	100	0		Bottom Side	0mm	Ant 1	DSI6	18900	1880	18.43	20	1.435	0.08	1.49	2.139
	LTE Band 2 inter band	20M	QPSK	1	0		Bottom Side	0mm	Ant 1	DSI6	19100	1900	12.80	14.5	1.479	0.09	0.629	0.93
	LTE Band 2	20M	QPSK	1	0		Front	8mm	Ant 1	DSI4	18900	1880	22.30	24.00	1.479	0.04	0.488	0.722
	LTE Band 2	20M	QPSK	1	0		Back	14mm	Ant 1	DSI4	18900	1880	22.30	24.00	1.479	0.01	0.623	0.921
	LTE Band 2	20M	QPSK	1	0		Bottom Side	11mm	Ant 1	DSI4	19100	1900	22.16	24.00	1.528	-0.02	0.871	1.331
	LTE Band 2	20M	QPSK	1	0		Back	0mm	Ant 4	DSI6	18900	1880	20.37	21.00	1.156	0.05	1.04	1.202
	LTE Band 2	20M	QPSK	50	0		Back	0mm	Ant 4	DSI6	18900	1880	20.27	21.00	1.183	0.01	0.772	0.913
	LTE Band 2	20M	QPSK	1	0		Top Side	0mm	Ant 4	DSI6	18900	1880	20.37	21.00	1.156	0.06	0.611	0.706
	LTE Band 2	20M	QPSK	50	0		Top Side	0mm	Ant 4	DSI6	18900	1880	20.27	21.00	1.183	0.06	0.589	0.697
	LTE Band 2	20M	QPSK	1	0		Back	8mm	Ant 4	DSI4	18900	1880	23.26	24.00	1.186	0.03	0.889	1.054
	LTE Band 2	20M	QPSK	1	0		Top Side	8mm	Ant 4	DSI4	18900	1880	23.26	24.00	1.186	0.03	0.721	0.855



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Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Mode	Test Position	Gap (mm)	Antenna	Power State	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																				
80	LTE Band 7	20M	QPSK	1	0		Front	0mm	Ant 0	DSI6	21100	2535	19.81	21	1.315		1	-0.16	1.21	1.591
	LTE Band 7	20M	QPSK	50	0		Front	0mm	Ant 0	DSI6	21100	2535	19.72	21	1.343		1	0.04	0.75	1.007
	LTE Band 7	20M	QPSK	1	0		Back	0mm	Ant 0	DSI6	21100	2535	19.81	21	1.315		1	-0.02	2.49	3.275
	LTE Band 7C_CA	20M	QPSK	1	99		Back	0mm	Ant 0	DSI6	21100+21298	2535+2554.8	19.71	21	1.346		1	0.03	2.22	2.988
	LTE Band 7	20M	QPSK	1	0		Back	0mm	Ant 0	DSI6	20850	2510	19.65	21	1.365		1	0.07	2.01	2.743
	LTE Band 7	20M	QPSK	1	0		Back	0mm	Ant 0	DSI6	21350	2560	19.61	21	1.377		1	0.02	2.17	2.989
	LTE Band 7	20M	QPSK	50	0		Back	0mm	Ant 0	DSI6	21100	2535	19.72	21	1.343		1	-0.12	2.21	2.968
	LTE Band 7	20M	QPSK	50	0		Back	0mm	Ant 0	DSI6	20850	2510	19.65	21	1.365		1	-0.09	2.01	2.743
	LTE Band 7	20M	QPSK	50	0		Back	0mm	Ant 0	DSI6	21350	2560	19.67	21	1.358		1	-0.11	2.04	2.771
	LTE Band 7	20M	QPSK	100	0		Back	0mm	Ant 0	DSI6	21100	2535	19.75	21	1.334		1	0.14	1.99	2.654
	LTE Band 7	20M	QPSK	1	0		Left Side	0mm	Ant 0	DSI6	21100	2535	19.81	21	1.315		1	0.12	0.94	1.236
	LTE Band 7	20M	QPSK	50	0		Left Side	0mm	Ant 0	DSI6	21100	2535	19.72	21	1.343		1	0.02	0.96	1.289
	LTE Band 7	20M	QPSK	1	0		Bottom Side	0mm	Ant 0	DSI6	21100	2535	19.81	21	1.315		1	-0.07	1.18	1.552
	LTE Band 7	20M	QPSK	50	0		Bottom Side	0mm	Ant 0	DSI6	21100	2535	19.72	21	1.343		1	-0.01	0.76	1.021
	LTE Band 7 ENDC	20M	QPSK	1	0		Back	0mm	Ant 0	DSI6	21100	2535	15.78	17.00	1.324		1	-0.02	0.991	1.312
	LTE Band 7	20M	QPSK	1	0		Front	3mm	Ant 0	DSI4	21100	2535	22.78	24	1.324		1	0.07	0.729	0.965
	LTE Band 7	20M	QPSK	1	0		Back	13mm	Ant 0	DSI4	21100	2535	22.78	24	1.324		1	0.18	0.299	0.396
	LTE Band 7	20M	QPSK	50	0		Left Side	5mm	Ant 0	DSI4	21100	2535	22.78	24	1.324		1	0.05	0.501	0.663
	LTE Band 7	20M	QPSK	1	0		Bottom Side	8mm	Ant 0	DSI4	21100	2535	22.78	24	1.324		1	0.11	0.431	0.571
	LTE Band 7	20M	QPSK	1	0		Front	0mm	Ant 4	DSI6	21100	2535	17.58	18.00	1.102		1	0.07	0.484	0.533
	LTE Band 7	20M	QPSK	50	0		Front	0mm	Ant 4	DSI6	21100	2535	17.47	18.00	1.130		1	0.18	0.405	0.458
	LTE Band 7	20M	QPSK	1	0		Back	0mm	Ant 4	DSI6	21100	2535	17.58	18.00	1.102		1	0.07	0.821	0.904
	LTE Band 7	20M	QPSK	50	0		Back	0mm	Ant 4	DSI6	21100	2535	17.47	18.00	1.130		1	-0.1	0.658	0.743
	LTE Band 7	20M	QPSK	1	0		Top Side	0mm	Ant 4	DSI6	21100	2535	17.58	18.00	1.102		1	0.01	1.28	1.41
	LTE Band 7	20M	QPSK	50	0		Top Side	0mm	Ant 4	DSI6	21100	2535	17.47	18.00	1.130		1	0.1	0.962	1.087
	LTE Band 7	20M	QPSK	1	0		Front	3mm	Ant 4	DSI4	21100	2535	23.49	24.00	1.125		1	0.15	0.771	0.867
	LTE Band 7	20M	QPSK	1	0		Back	8mm	Ant 4	DSI4	21100	2535	23.49	24.00	1.125		1	-0.18	0.899	1.011
	LTE Band 7	20M	QPSK	1	0		Top Side	8mm	Ant 4	DSI4	21100	2535	23.49	24.00	1.125		1	-0.12	1.13	1.271
81	FR1 n7	40M	QPSK	1	1	DFT-15	Front	0mm	Ant 0	DSI6	507000	2535	20.92	22	1.282		1	-0.03	1.5	1.923
	FR1 n7	40M	QPSK	108	54	DFT-15	Front	0mm	Ant 0	DSI6	507000	2535	20.83	22	1.309		1	0.06	1.49	1.951
	FR1 n7	40M	QPSK	1	1	DFT-15	Back	0mm	Ant 0	DSI6	507000	2535	20.92	22	1.282		1	-0.06	2.56	3.283
	FR1 n7	40M	QPSK	1	1	DFT-15	Back	0mm	Ant 0	DSI6	504000	2520	20.90	22	1.288		1	0.06	2.51	3.234
	FR1 n7	40M	QPSK	1	1	DFT-15	Back	0mm	Ant 0	DSI6	510000	2550	20.84	22	1.306		1	0.14	2.43	3.174
	FR1 n7	40M	QPSK	108	54	DFT-15	Back	0mm	Ant 0	DSI6	507000	2535	20.83	22	1.309		1	0.07	2.33	3.05
	FR1 n7	40M	QPSK	108	54	DFT-15	Back	0mm	Ant 0	DSI6	504000	2520	20.64	22	1.368		1	0.01	2.38	3.255
	FR1 n7	40M	QPSK	108	54	DFT-15	Back	0mm	Ant 0	DSI6	510000	2550	20.75	22	1.334		1	0.03	2.41	3.214
	FR1 n7	40M	QPSK	216	0	DFT-15	Back	0mm	Ant 0	DSI6	507000	2535	20.76	22	1.330		1	0.08	2.39	3.18
	FR1 n7	40M	QPSK	1	1	DFT-15	Left Side	0mm	Ant 0	DSI6	507000	2535	20.92	22	1.282		1	0.12	1.16	1.488
	FR1 n7	40M	QPSK	108	54	DFT-15	Left Side	0mm	Ant 0	DSI6	507000	2535	20.83	22	1.309		1	-0.16	1.17	1.532
	FR1 n7	40M	QPSK	1	1	DFT-15	Bottom Side	0mm	Ant 0	DSI6	507000	2535	20.92	22	1.282		1	0.02	1.41	1.808
	FR1 n7	40M	QPSK	108	54	DFT-15	Bottom Side	0mm	Ant 0	DSI6	507000	2535	20.83	22	1.309		1	0.02	1.31	1.715
	FR1 n7 ENDC	40M	QPSK	1	1	DFT-15	Back	0mm	Ant 0	DSI6	507000	2535	16.97	18	1.268		1	-0.06	1.03	1.306
	FR1 n7	40M	QPSK	108	54	DFT-15	Front	3mm	Ant 0	DSI4	507000	2535	22.68	24.00	1.355		1	0.03	0.809	1.096
	FR1 n7	40M	QPSK	1	1	DFT-15	Back	13mm	Ant 0	DSI4	507000	2535	22.84	24.00	1.306		1	-0.09	0.331	0.432
	FR1 n7	40M	QPSK	108	54	DFT-15	Left Side	5mm	Ant 0	DSI4	507000	2535	22.68	24.00	1.355		1	0.04	0.626	0.848
	FR1 n7	40M	QPSK	1	1	DFT-15	Bottom Side	8mm	Ant 0	DSI4	507000	2535	22.84	24.00	1.306		1	-0.02	0.491	0.641
82	LTE Band 41	20M	QPSK	1	0		Front	0mm	Ant 0	DSI6	40620	2593	21.79	23.00	1.321	62.9	1.006	-0.14	1.08	1.436
	LTE Band 41	20M	QPSK	50	0		Front	0mm	Ant 0	DSI6	40620	2593	21.70	23.00	1.349	62.9	1.006	-0.14	0.97	1.316
	LTE Band 41	20M	QPSK	1	0		Back	0mm	Ant 0	DSI6	40620	2593	21.79	23.00	1.321	62.9	1.006	-0.11	2.32	3.084
	LTE Band 41	20M	QPSK	1	0		Back	0mm	Ant 0	DSI6	39750	2506	21.65	23.00	1.365	62.9	1.006	0.06	2.09	2.869
	LTE Band 41	20M	QPSK	1	0		Back	0mm	Ant 0	DSI6	40185	2549.5	21.68	23.00	1.355	62.9	1.006	0.04	2.06	2.808



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	LTE Band 41	20M	QPSK	1	0		Back	0mm	Ant 0	DSI6	41055	2636.5	21.64	23.00	1.368	62.9	1.006	0.01	1.68	2.312
	LTE Band 41	20M	QPSK	1	0		Back	0mm	Ant 0	DSI6	41490	2680	21.76	23.00	1.330	62.9	1.006	0.02	1.42	1.901
	LTE Band 41	20M	QPSK	50	0		Back	0mm	Ant 0	DSI6	40620	2593	21.70	23.00	1.349	62.9	1.006	-0.14	1.87	2.538
	LTE Band 41	20M	QPSK	50	0		Back	0mm	Ant 0	DSI6	39750	2506	21.65	23.00	1.365	62.9	1.006	0.01	1.79	2.457
	LTE Band 41	20M	QPSK	50	0		Back	0mm	Ant 0	DSI6	40185	2549.5	21.58	23.00	1.387	62.9	1.006	0.11	1.49	2.079
	LTE Band 41	20M	QPSK	50	0		Back	0mm	Ant 0	DSI6	41055	2636.5	21.59	23.00	1.384	62.9	1.006	-0.06	1.66	2.311
	LTE Band 41	20M	QPSK	50	0		Back	0mm	Ant 0	DSI6	41490	2680	21.45	23.00	1.429	62.9	1.006	-0.15	1.31	1.883
	LTE Band 41	20M	QPSK	100	0		Back	0mm	Ant 0	DSI6	40620	2593	21.70	23.00	1.349	62.9	1.006	0.02	1.49	2.022
	LTE Band 41	20M	QPSK	1	0		Bottom Side	0mm	Ant 0	DSI6	40620	2593	21.79	23.00	1.321	62.9	1.006	-0.1	1.02	1.356
	LTE Band 41	20M	QPSK	1	0		Bottom Side	0mm	Ant 0	DSI6	40620	2593	21.79	23.00	1.321	62.9	1.006	-0.1	0.978	1.300
	LTE Band 41	20M	QPSK	1	0		Front	3mm	Ant 0	DSI4	40620	2593	22.67	24.00	1.358	62.9	1.006	0.11	0.578	0.790
	LTE Band 41	20M	QPSK	1	0		Back	13mm	Ant 0	DSI4	40620	2593	22.67	24.00	1.358	62.9	1.006	0.07	0.209	0.286
	LTE Band 41	20M	QPSK	1	0		Bottom Side	8mm	Ant 0	DSI4	40620	2593	22.67	24.00	1.358	62.9	1.006	0.15	0.289	0.395

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Mode	Test Position	Gap (mm)	Antenna	Power State	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)
3500MHz																				
83	LTE Band 42	20M	QPSK	1	0		Back	0mm	Ant 5	DSI4	42590	3500	23.37	24.00	1.156	62.9	1.006	-0.04	1.43	1.663
	LTE Band 42	20M	QPSK	50	0		Back	0mm	Ant 5	DSI4	42590	3500	22.47	23.00	1.130	62.9	1.006	0.02	0.887	1.008
	LTE Band 42	20M	QPSK	1	0		Top Side	0mm	Ant 5	DSI4	42590	3500	23.37	24.00	1.156	62.9	1.006	0.03	0.956	1.112
	LTE Band 42	20M	QPSK	50	0		Top Side	0mm	Ant 5	DSI4	42590	3500	22.47	23.00	1.130	62.9	1.006	0.03	0.901	1.024
	FR1 n78 Part27Q	100M	QPSK	1	1	DFT-30	Back	0mm	Ant 5	DSI6	633334	3500.01	20.93	22	1.279		1	0.09	1.25	1.599
	FR1 n78 Part27Q	100M	QPSK	135	69	DFT-30	Back	0mm	Ant 5	DSI6	633334	3500.01	20.91	22	1.285		1	-0.07	1.27	1.632
	FR1 n78 Part27Q	100M	QPSK	1	1	DFT-30	Top Side	0mm	Ant 5	DSI6	633334	3500.01	20.93	22	1.279		1	0.09	1.16	1.484
	FR1 n78 Part27Q	100M	QPSK	135	69	DFT-30	Top Side	0mm	Ant 5	DSI6	633334	3500.01	20.91	22	1.285		1	-0.19	1.22	1.568
	FR1 n78 Part27Q ENDC	100M	QPSK	135	69	DFT-30	Back	0mm	Ant 5	DSI6	633334	3500.01	18.95	20	1.274		1	0.06	0.851	1.084
	FR1 n78 Part27Q	100M	QPSK	135	69	DFT-30	Back	7mm	Ant 5	DSI4	633334	3500.01	22.84	24	1.306		1	0.06	0.811	1.059
	FR1 n78 Part27Q	100M	QPSK	135	69	DFT-30	Top Side	8mm	Ant 5	DSI4	633334	3500.01	22.84	24	1.306		1	0.04	0.734	0.959
84	FR1 n78 Part27Q	100M	QPSK	1	1	DFT-30	Back	0mm	Ant 3	DSI6	633334	3500.01	20.67	22	1.358		1	0	1.61	2.187
	FR1 n78 Part27Q	100M	QPSK	135	69	DFT-30	Back	0mm	Ant 3	DSI6	633334	3500.01	20.61	22	1.377		1	0.03	1.58	2.176
	FR1 n78 Part27Q	100M	QPSK	270	0	DFT-30	Back	0mm	Ant 3	DSI6	633334	3500.01	20.48	22	1.419		1	0.16	1.43	2.029
	FR1 n78 Part27Q	100M	QPSK	1	1	DFT-30	Left Side	0mm	Ant 3	DSI6	633334	3500.01	20.67	22	1.358		1	0.05	0.917	1.246
	FR1 n78 Part27Q	100M	QPSK	135	69	DFT-30	Left Side	0mm	Ant 3	DSI6	633334	3500.01	20.61	22	1.377		1	0.09	0.888	1.223
	FR1 n78 Part27Q	100M	QPSK	1	1	DFT-30	Back	0mm	Ant 8	DSI6	633334	3500.01	19.87	20.5	1.156		1	0.03	1.13	1.306
	FR1 n78 Part27Q	100M	QPSK	135	69	DFT-30	Back	0mm	Ant 8	DSI6	633334	3500.01	19.84	20.5	1.164		1	0	1.41	1.641
	FR1 n78 Part27Q	100M	QPSK	1	1	DFT-30	Right Side	0mm	Ant 8	DSI6	633334	3500.01	19.87	20.5	1.156		1	0.01	1.01	1.168
	FR1 n78 Part27Q	100M	QPSK	135	69	DFT-30	Right Side	0mm	Ant 8	DSI6	633334	3500.01	19.84	20.5	1.164		1	0.08	0.954	1.111

Plot No.	Band	Mode	Test Position	Gap (mm)	Antenna	Power State	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)
WIFI																
	WLAN5.3GHz	802.11a 6Mbps	Front	0mm	Ant 6	Full Power	60	5300	18.13	19.5	1.372	98.96	1.011	0.05	0.208	0.289
	WLAN5.3GHz	802.11a 6Mbps	Back	0mm	Ant 6	Full Power	60	5300	18.13	19.5	1.372	98.96	1.011	0.01	0.291	0.404
	WLAN5.3GHz	802.11a 6Mbps	Right Side	0mm	Ant 6	Full Power	60	5300	18.13	19.5	1.372	98.96	1.011	0.03	0.157	0.218
85	WLAN5.3GHz	802.11a 6Mbps	Top Side	0mm	Ant 6	Full Power	60	5300	18.13	19.5	1.372	98.96	1.011	0.01	0.784	1.088
	WLAN5.5GHz	802.11a 6Mbps	Front	0mm	Ant 6	Full Power	116	5580	18.21	19.5	1.347	98.96	1.011	0.01	0.189	0.257
	WLAN5.5GHz	802.11a 6Mbps	Back	0mm	Ant 6	Full Power	116	5580	18.21	19.5	1.347	98.96	1.011	0.03	0.31	0.422
	WLAN5.5GHz	802.11a 6Mbps	Right Side	0mm	Ant 6	Full Power	116	5580	18.21	19.5	1.347	98.96	1.011	0.01	0.148	0.202
86	WLAN5.5GHz	802.11a 6Mbps	Top Side	0mm	Ant 6	Full Power	116	5580	18.21	19.5	1.347	98.96	1.011	0.01	0.774	1.054
	WLAN5.5GHz	802.11a 6Mbps	Top Side	0mm	Ant 6	Simultaneous	116	5580	17.72	19	1.343	98.96	1.011	0.06	0.648	0.88
	WLAN5.5GHz	802.11a 6Mbps	Top Side	10mm	Ant 6	Full Power	116	5580	18.21	19.5	1.347	98.96	1.011	0.04	0.086	0.117
87	WLAN5.8GHz	802.11a 6Mbps	Back	0mm	Ant 6	Full Power	165	5825	18.32	19.5	1.314	98.96	1.011	0.02	1.36	1.806
	WLAN5.8GHz	802.11a 6Mbps	Top Side	0mm	Ant 6	Full Power	165	5825	18.32	19.5	1.314	98.96	1.011	0.05	1.27	1.687
	WLAN5.8GHz	802.11ac-VHT80 MCS0	Back	0mm	Ant 6	Simultaneous	155	5775	12.77	14	1.327	92.75	1.078	0.05	0.509	0.728



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WLAN5.8GHz	802.11a 6Mbps	Back	14mm	Ant 6	Full Power	165	5825	18.32	19.5	1.314	98.96	1.011	0.03	0.126	0.167
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15.5 Repeated SAR Measurement

<1g>

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Mode	Test Position	Gap (mm)	Antenna	Power State	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 42	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 5	DSI2	42590	3500	22.56	23.00	1.107	62.9	1.006	-0.16	0.991	1	1.103
2nd	LTE Band 42	20M	QPSK	1	0	-	Left Tilted	0mm	Ant 5	DSI2	42590	3500	22.56	23.00	1.107	62.9	1.006	0.03	0.988	1.003	1.100
1st	WLAN2.4GHz	-	-	-	-	802.11b 1Mbps	Left Cheek	0mm	Ant 6	Standalone	6	2437	18.97	20.50	1.422	99.31	1.007	0.06	0.805	1	1.153
2nd	WLAN2.4GHz	-	-	-	-	802.11b 1Mbps	Left Cheek	0mm	Ant 6	Standalone	6	2437	18.97	20.50	1.422	99.31	1.007	0.01	0.791	1.018	1.133
1st	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Bottom Side	5mm	Ant 1	DSI7	1413	1732.6	17.22	18.5	1.343	-	-	-0.09	1.07	1	1.437
2nd	WCDMA IV	-	-	-	-	RMC 12.2Kbps	Bottom Side	5mm	Ant 1	DSI7	1413	1732.6	17.22	18.5	1.343	-	-	0.02	0.999	1.071	1.341
1st	GSM850	-	-	-	-	GPRS (2 Tx slots)	Back	5mm	Ant 1	DSI4	189	836.4	31.27	32.00	1.183	-	-	-0.19	1.080	1	1.278
2nd	GSM850	-	-	-	-	GPRS (2 Tx slots)	Back	5mm	Ant 1	DSI4	189	836.4	31.27	32.00	1.183	-	-	0.03	1.076	1.004	1.273
1st	GSM1900	-	-	-	-	GPRS (2 Tx slots)	Back	5mm	Ant 1	DSI3	661	1880	24.59	25.00	1.099	-	-	0.08	1.12	1	1.231
2nd	GSM1900	-	-	-	-	GPRS (2 Tx slots)	Back	5mm	Ant 1	DSI3	661	1880	24.59	25.00	1.099	-	-	0.03	1.09	1.028	1.198
1st	LTE Band 7	20M	QPSK	1	0	-	Back	5mm	Ant 0	DSI4	21100	2535	18.33	19.50	1.309	-	-	0.05	1.07	1	1.401
2nd	LTE Band 7	20M	QPSK	1	0	-	Back	5mm	Ant 0	DSI4	21100	2535	18.33	19.50	1.309	-	-	0.03	1.01	1.059	1.322
1st	WLAN5.5GHz	-	-	-	-	802.11a 6Mbps	Back	5mm	Ant 6	Standalone	100	5500	18.17	19.50	1.360	98.96	1.011	0	0.809	1	1.112
2nd	WLAN5.5GHz	-	-	-	-	802.11a 6Mbps	Back	5mm	Ant 6	Standalone	100	5500	18.17	19.50	1.360	98.96	1.011	0.06	0.806	1.004	1.108

<10g>

Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Mode	Test Position	Gap (mm)	Antenna	Power State	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	LTE Band 66	20M	QPSK	1	0	-	Bottom Side	0mm	Ant 1	DSI6	132322	1745	20.60	22.00	1.380	-	-	0.02	2.44	1	3.368
2nd	LTE Band 66	20M	QPSK	1	0	-	Bottom Side	0mm	Ant 1	DSI6	132322	1745	20.60	22.00	1.380	-	-	0.03	2.41	1.012	3.327
1st	WCDMA II	-	-	-	-	RMC 12.2Kbps	Bottom Side	0mm	Ant 1	DSI6	9538	1907.6	17.89	19.50	1.449	-	-	-0.13	2.31	1	3.347
2nd	WCDMA II	-	-	-	-	RMC 12.2Kbps	Bottom Side	0mm	Ant 1	DSI6	9538	1907.6	17.89	19.50	1.449	-	-	0.03	2.27	1.018	3.289
1st	FR1 n7	40M	QPSK	1	1	-	Back	0mm	Ant 0	DSI6	507000	2535	20.92	22	1.282	-	-	-0.06	2.56	1	3.283
2nd	FR1 n7	40M	QPSK	1	1	-	Back	0mm	Ant 0	DSI6	507000	2535	20.92	22	1.282	-	-	0.03	2.49	1.028	3.193

General Note:

- Per KDB 865664 D01v01r04, for each frequency band, repeated SAR measurement is required only when the measured SAR is $\geq 0.8W/kg$.
- Per KDB 865664 D01v01r04, if the ratio among the repeated measurement is ≤ 1.2 and the measured SAR $< 1.45W/kg$, 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
4.	WWAN + WLAN5GHz + Bluetooth	Yes	Yes	Yes	Yes

General Note:

- This device supports VoIP in GPRS, EGPRS, WCDMA and LTE (e.g. for 3rd-party VoIP), LTE supports VoLTE operation.
- WWAN above includes 5G NR bands.
- EUT will choose each GSM, WCDMA, LTE and 5GNR according to the network signal condition; therefore, they will not operate simultaneously at any moment.
- This device 2.4GHz WLAN support hotspot operation and Bluetooth support tethering applications.
- 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).
- The worst case 5 GHz WLAN SAR for each configuration was used for SAR summation.
- WLAN 2.4GHz and Bluetooth share the same antenna so can't transmit simultaneously.
- According to the EUT characteristic, WLAN 5GHz and Bluetooth can transmit simultaneously.
- According to the EUT characteristic, WLAN 5GHz and WLAN 2.4GHz can't transmit simultaneously.
- 5G NR NSA EN-DC mode, standalone SAR performed for 5GNR band with the maximum power, EN-DC SAR summed 5GNR standalone SAR and LTE standalone SAR, the result of EN-DC SAR is more conservatively.
- The maximum SAR summation is calculated based on the same configuration and test position.
- For Headset SAR and non-Headset SAR, always chose higher SAR to do co-located analysis.
- Per KDB 447498 D01v06, simultaneous transmission SAR is compliant if,
 - 1g Scalar SAR summation < 1.6W/kg and 10g Scalar SAR summation < 4.0W/kg.
 - $SPLSR = (SAR1 + SAR2)^{1.5} / (\text{min. separation distance, mm})$, 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.
 - If $SPLSR \leq 0.04$ for 1g SAR and $SPLSR \leq 0.10$ for 10g SAR, simultaneously transmission SAR measurement is not necessary.
 - Simultaneously transmission SAR measurement, and the reported multi-band 1g SAR < 1.6W/kg and 10g SAR < 4.0W/kg.
 - The SPLSR calculated results please refer to section 16.5.



16.1 Head Exposure Conditions

WWAN Band	Exposure Position	1	2	3	4	1+2	1+3+4
		WWAN	WLAN2.4GHz Ant 6	WLAN5GHz Ant 6	Bluetooth Ant 6	Summed	Summed
		1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)
GSM850 Ant 1	Right Cheek	0.373	0.285	0.257	0.149	0.66	0.78
	Right Tilted	0.233	0.285	0.257	0.149	0.52	0.64
	Left Cheek	0.314	0.285	0.257	0.149	0.60	0.72
	Left Tilted	0.207	0.285	0.257	0.149	0.49	0.61
GSM1900 Ant 1	Right Cheek	0.004	0.285	0.257	0.149	0.29	0.41
	Right Tilted	0.002	0.285	0.257	0.149	0.29	0.41
	Left Cheek	0.048	0.285	0.257	0.149	0.33	0.45
	Left Tilted	0.001	0.285	0.257	0.149	0.29	0.41
WCDMA II Ant 1	Right Cheek	0.066	0.285	0.257	0.149	0.35	0.47
	Right Tilted	0.001	0.285	0.257	0.149	0.29	0.41
	Left Cheek	0.112	0.285	0.257	0.149	0.40	0.52
	Left Tilted	0.001	0.285	0.257	0.149	0.29	0.41
WCDMA IV Ant 1	Right Cheek	0.209	0.285	0.257	0.149	0.49	0.62
	Right Tilted	0.118	0.285	0.257	0.149	0.40	0.52
	Left Cheek	0.200	0.285	0.257	0.149	0.49	0.61
	Left Tilted	0.137	0.285	0.257	0.149	0.42	0.54
WCDMA V Ant 1	Right Cheek	0.563	0.285	0.257	0.149	0.85	0.97
	Right Tilted	0.309	0.285	0.257	0.149	0.59	0.72
	Left Cheek	0.517	0.285	0.257	0.149	0.80	0.92
	Left Tilted	0.287	0.285	0.257	0.149	0.57	0.69
LTE Band 2 Ant 1	Right Cheek	0.049	0.285	0.257	0.149	0.33	0.46
	Right Tilted	0.004	0.285	0.257	0.149	0.29	0.41
	Left Cheek	0.086	0.285	0.257	0.149	0.37	0.49
	Left Tilted	0.003	0.285	0.257	0.149	0.29	0.41
LTE Band 7 Ant 0	Right Cheek	0.356	0.285	0.257	0.149	0.64	0.76
	Right Tilted	0.348	0.285	0.257	0.149	0.63	0.75
	Left Cheek	0.444	0.285	0.257	0.149	0.73	0.85
	Left Tilted	0.191	0.285	0.257	0.149	0.48	0.60
LTE Band 12 Ant 1	Right Cheek	0.232	0.285	0.257	0.149	0.52	0.64
	Right Tilted	0.144	0.285	0.257	0.149	0.43	0.55
	Left Cheek	0.233	0.285	0.257	0.149	0.52	0.64
	Left Tilted	0.130	0.285	0.257	0.149	0.42	0.54
LTE Band 13 Ant 1	Right Cheek	0.179	0.285	0.257	0.149	0.46	0.59
	Right Tilted	0.118	0.285	0.257	0.149	0.40	0.52
	Left Cheek	0.191	0.285	0.257	0.149	0.48	0.60
	Left Tilted	0.109	0.285	0.257	0.149	0.39	0.52
LTE Band 26 Ant 1	Right Cheek	0.427	0.285	0.257	0.149	0.71	0.83
	Right Tilted	0.273	0.285	0.257	0.149	0.56	0.68
	Left Cheek	0.406	0.285	0.257	0.149	0.69	0.81
	Left Tilted	0.242	0.285	0.257	0.149	0.53	0.65
LTE Band 41 Ant 0	Right Cheek	0.245	0.285	0.257	0.149	0.53	0.65
	Right Tilted	0.220	0.285	0.257	0.149	0.51	0.63
	Left Cheek	0.372	0.285	0.257	0.149	0.66	0.78
	Left Tilted	0.131	0.285	0.257	0.149	0.42	0.54
LTE Band 42 Ant 5	Right Cheek	0.773	0.285	0.257	0.149	1.06	1.18
	Right Tilted	0.766	0.285	0.257	0.149	1.05	1.17
	Left Cheek	1.046	0.285	0.257	0.149	1.33	1.45
	Left Tilted	1.103	0.285	0.257	0.149	1.39	1.51
LTE Band 66 Ant 1	Right Cheek	0.231	0.285	0.257	0.149	0.52	0.64
	Right Tilted	0.111	0.285	0.257	0.149	0.40	0.52
	Left Cheek	0.191	0.285	0.257	0.149	0.48	0.60



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	Left Tilted	0.131	0.285	0.257	0.149	0.42	0.54
FR1 n7 Ant 0	Right Cheek	0.275	0.285	0.257	0.149	0.56	0.68
	Right Tilted	0.271	0.285	0.257	0.149	0.56	0.68
	Left Cheek	0.426	0.285	0.257	0.149	0.71	0.83
	Left Tilted	0.136	0.285	0.257	0.149	0.42	0.54
FR1 n78 Part27Q Ant 5	Right Cheek	0.581	0.285	0.257	0.149	0.87	0.99
	Right Tilted	0.572	0.285	0.257	0.149	0.86	0.98
	Left Cheek	0.724	0.285	0.257	0.149	1.01	1.13
	Left Tilted	0.779	0.285	0.257	0.149	1.06	1.19
FR1 n78 Part27Q Ant 0	Right Cheek	0.004	0.285	0.257	0.149	0.29	0.41
	Right Tilted	0.081	0.285	0.257	0.149	0.37	0.49
	Left Cheek	0.087	0.285	0.257	0.149	0.37	0.49
	Left Tilted	0.047	0.285	0.257	0.149	0.33	0.45
FR1 n78 Part27Q Ant 3	Right Cheek	0.657	0.285	0.257	0.149	0.94	1.06
	Right Tilted	0.443	0.285	0.257	0.149	0.73	0.85
	Left Cheek	0.169	0.285	0.257	0.149	0.45	0.58
	Left Tilted	0.165	0.285	0.257	0.149	0.45	0.57
FR1 n78 Part27Q Ant 8	Right Cheek	0.196	0.285	0.257	0.149	0.48	0.60
	Right Tilted	0.080	0.285	0.257	0.149	0.37	0.49
	Left Cheek	0.286	0.285	0.257	0.149	0.57	0.69
	Left Tilted	0.130	0.285	0.257	0.149	0.42	0.54

<Uplink CA Mode >

WWAN Band	WWAN Band	Exposure Position	1	2	3	4	5	1+2+3	1+2+4+5
			WWAN	WWAN	WLAN2.4GHz Ant 6	WLAN5GHz Ant 6	Bluetooth Ant 6	Summed	Summed
			1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)
LTE Band 2 Ant 1	LTE Band 66 Ant 4	Right Cheek	0.049	0.552	0.285	0.257	0.149	0.89	1.01
		Right Tilted	0.004	0.506	0.285	0.257	0.149	0.80	0.92
		Left Cheek	0.086	0.301	0.285	0.257	0.149	0.67	0.79
		Left Tilted	0.003	0.380	0.285	0.257	0.149	0.67	0.79
LTE Band 66 Ant 1	LTE Band 5 Ant 4	Right Cheek	0.231	0.578	0.285	0.257	0.149	1.09	1.22
		Right Tilted	0.111	0.517	0.285	0.257	0.149	0.91	1.03
		Left Cheek	0.191	0.391	0.285	0.257	0.149	0.87	0.99
		Left Tilted	0.131	0.383	0.285	0.257	0.149	0.80	0.92
LTE Band 66 Ant 1	LTE Band 7 Ant 4	Right Cheek	0.231	0.469	0.285	0.257	0.149	0.99	1.11
		Right Tilted	0.111	0.540	0.285	0.257	0.149	0.94	1.06
		Left Cheek	0.191	0.203	0.285	0.257	0.149	0.68	0.80
		Left Tilted	0.131	0.242	0.285	0.257	0.149	0.66	0.78

<5G NR Mode>

WWAN Band	FR1 Band	Exposure Position	1	2	3	4	5	1+2+3	1+2+4+5
			WWAN	FR1	WLAN2.4GHz Ant 6	WLAN5GHz Ant 6	Bluetooth Ant 6	Summed	Summed
			1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)
LTE Band 7 Ant 0	FR1 n5 Ant 1	Right Cheek	0.356	0.358	0.285	0.257	0.149	1.00	1.12
		Right Tilted	0.348	0.251	0.285	0.257	0.149	0.88	1.01
		Left Cheek	0.444	0.347	0.285	0.257	0.149	1.08	1.20
		Left Tilted	0.191	0.222	0.285	0.257	0.149	0.70	0.82
LTE Band 2 Ant 4	FR1 n7 Ant 0	Right Cheek	0.484	0.275	0.285	0.257	0.149	1.04	1.17
		Right Tilted	0.376	0.271	0.285	0.257	0.149	0.93	1.05
		Left Cheek	0.289	0.426	0.285	0.257	0.149	1.00	1.12
		Left Tilted	0.289	0.136	0.285	0.257	0.149	0.71	0.83
LTE Band 5 Ant 4	FR1 n7 Ant 0	Right Cheek	0.578	0.275	0.285	0.257	0.149	1.14	1.26
		Right Tilted	0.517	0.271	0.285	0.257	0.149	1.07	1.19
		Left Cheek	0.391	0.426	0.285	0.257	0.149	1.10	1.22
		Left Tilted	0.383	0.136	0.285	0.257	0.149	0.80	0.93



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LTE Band 66 Ant 4	FR1 n7 Ant 0	Right Cheek	0.552	0.275	0.285	0.257	0.149	1.11	1.23
		Right Tilted	0.506	0.271	0.285	0.257	0.149	1.06	1.18
		Left Cheek	0.301	0.426	0.285	0.257	0.149	1.01	1.13
		Left Tilted	0.380	0.136	0.285	0.257	0.149	0.80	0.92
LTE Band 2 Ant 4	FR1 n66 Ant 1	Right Cheek	0.484	0.121	0.285	0.257	0.149	0.89	1.01
		Right Tilted	0.376	0.049	0.285	0.257	0.149	0.71	0.83
		Left Cheek	0.289	0.093	0.285	0.257	0.149	0.67	0.79
		Left Tilted	0.289	0.056	0.285	0.257	0.149	0.63	0.75
LTE Band 5 Ant 4	FR1 n66 Ant 1	Right Cheek	0.578	0.121	0.285	0.257	0.149	0.98	1.11
		Right Tilted	0.517	0.049	0.285	0.257	0.149	0.85	0.97
		Left Cheek	0.391	0.093	0.285	0.257	0.149	0.77	0.89
		Left Tilted	0.383	0.056	0.285	0.257	0.149	0.72	0.85
LTE Band 7 Ant 4	FR1 n66 Ant 1	Right Cheek	0.469	0.121	0.285	0.257	0.149	0.88	1.00
		Right Tilted	0.540	0.049	0.285	0.257	0.149	0.87	1.00
		Left Cheek	0.203	0.093	0.285	0.257	0.149	0.58	0.70
		Left Tilted	0.242	0.056	0.285	0.257	0.149	0.58	0.70
LTE Band 2 Ant 4	FR1 n78 Ant 5	Right Cheek	0.484	0.537	0.285	0.257	0.149	1.31	1.43
		Right Tilted	0.376	0.537	0.285	0.257	0.149	1.20	1.32
		Left Cheek	0.289	0.537	0.285	0.257	0.149	1.11	1.23
		Left Tilted	0.289	0.537	0.285	0.257	0.149	1.11	1.23
LTE Band 7 Ant 4	FR1 n78 Ant 5	Right Cheek	0.469	0.537	0.285	0.257	0.149	1.29	1.41
		Right Tilted	0.540	0.537	0.285	0.257	0.149	1.36	1.48
		Left Cheek	0.203	0.537	0.285	0.257	0.149	1.03	1.15
		Left Tilted	0.242	0.537	0.285	0.257	0.149	1.06	1.19
LTE Band 66 Ant 4	FR1 n78 Ant 5	Right Cheek	0.552	0.537	0.285	0.257	0.149	1.37	1.50
		Right Tilted	0.506	0.537	0.285	0.257	0.149	1.33	1.45
		Left Cheek	0.301	0.537	0.285	0.257	0.149	1.12	1.24
		Left Tilted	0.380	0.537	0.285	0.257	0.149	1.20	1.32



16.2 Hotspot Exposure Conditions

WWAN Band	Exposure Position	1	2	3	4	1+2	1+3+4	SPLSR
		WWAN	WLAN2.4GHz Ant 6	WLAN5GHz Ant 6	Bluetooth Ant 6	Summed	Summed	
		1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	
GSM850 Ant 1	Front	0.618	0.227	0.129	0.185	0.85	0.93	
	Back	1.278	0.227	0.129	0.185	1.51	1.59	
	Left side	0.324	0.227	0.129	0.185	0.55	0.64	
	Right side	0.642	0.227	0.129	0.185	0.87	0.96	
	Top side		0.227	0.129	0.185	0.23	0.31	
	Bottom side	0.95				0.95	0.95	
GSM1900 Ant 1	Front	0.379	0.227	0.129	0.185	0.61	0.69	
	Back	1.231	0.227	0.129	0.185	1.46	1.55	
	Left side	0.042	0.227	0.129	0.185	0.27	0.36	
	Right side	0.122	0.227	0.129	0.185	0.35	0.44	
	Top side		0.227	0.129	0.185	0.23	0.31	
	Bottom side	1.006				1.01	1.01	
WCDMA II Ant 1	Front	0.344	0.227	0.129	0.185	0.57	0.66	
	Back	1.409	0.227	0.129	0.185	1.64	1.72	1&2
	Left side	0.037	0.227	0.129	0.185	0.26	0.35	
	Right side	0.093	0.227	0.129	0.185	0.32	0.41	
	Top side		0.227	0.129	0.185	0.23	0.31	
	Bottom side	0.853				0.85	0.85	
WCDMA IV Ant 1	Front	0.545	0.227	0.129	0.185	0.77	0.86	
	Back	1.063	0.227	0.129	0.185	1.29	1.38	
	Left side	0.097	0.227	0.129	0.185	0.32	0.41	
	Right side	0.122	0.227	0.129	0.185	0.35	0.44	
	Top side		0.227	0.129	0.185	0.23	0.31	
	Bottom side	1.437				1.44	1.44	
WCDMA V Ant 1	Front	0.711	0.227	0.129	0.185	0.94	1.03	
	Back	1.393	0.227	0.129	0.185	1.62	1.71	3&4
	Left side	0.253	0.227	0.129	0.185	0.48	0.57	
	Right side	0.577	0.227	0.129	0.185	0.80	0.89	
	Top side		0.227	0.129	0.185	0.23	0.31	
	Bottom side	1.115				1.12	1.12	
LTE Band 2 Ant 1	Front	0.323	0.227	0.129	0.185	0.55	0.64	
	Back	1.301	0.227	0.129	0.185	1.53	1.62	5
	Left side	0.032	0.227	0.129	0.185	0.26	0.35	
	Right side	0.096	0.227	0.129	0.185	0.32	0.41	
	Top side		0.227	0.129	0.185	0.23	0.31	
	Bottom side	0.736				0.74	0.74	
LTE Band 7 Ant 0	Front	0.67	0.227	0.129	0.185	0.90	0.98	
	Back	1.401	0.227	0.129	0.185	1.63	1.72	6&7
	Left side	0.539	0.227	0.129	0.185	0.77	0.85	
	Right side	0.092	0.227	0.129	0.185	0.32	0.41	
	Top side		0.227	0.129	0.185	0.23	0.31	
	Bottom side	0.689				0.69	0.69	
LTE Band 12 Ant 1	Front	0.246	0.227	0.129	0.185	0.47	0.56	
	Back	0.564	0.227	0.129	0.185	0.79	0.88	
	Left side	0.298	0.227	0.129	0.185	0.53	0.61	
	Right side	0.464	0.227	0.129	0.185	0.69	0.78	
	Top side		0.227	0.129	0.185	0.23	0.31	
	Bottom side	0.281				0.28	0.28	
LTE Band 13	Front	0.256	0.227	0.129	0.185	0.48	0.57	



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Ant 1	Back	0.43	0.227	0.129	0.185	0.66	0.74	
	Left side	0.216	0.227	0.129	0.185	0.44	0.53	
	Right side	0.42	0.227	0.129	0.185	0.65	0.73	
	Top side		0.227	0.129	0.185	0.23	0.31	
	Bottom side	0.394				0.39	0.39	
LTE Band 26 Ant 1	Front	0.741	0.227	0.129	0.185	0.97	1.06	
	Back	1.332	0.227	0.129	0.185	1.56	1.65	8
	Left side	0.324	0.227	0.129	0.185	0.55	0.64	
	Right side	0.661	0.227	0.129	0.185	0.89	0.98	
	Top side		0.227	0.129	0.185	0.23	0.31	
	Bottom side	0.862				0.86	0.86	
LTE Band 41 Ant 0	Front	0.573	0.227	0.129	0.185	0.80	0.89	
	Back	1.263	0.227	0.129	0.185	1.49	1.58	
	Left side	0.437	0.227	0.129	0.185	0.66	0.75	
	Right side	0.028	0.227	0.129	0.185	0.26	0.34	
	Top side		0.227	0.129	0.185	0.23	0.31	
	Bottom side	0.597				0.60	0.60	
LTE Band 42 Ant 5	Front	0.406	0.227	0.129	0.185	0.63	0.72	
	Back	1.022	0.227	0.129	0.185	1.25	1.34	
	Left side	0.071	0.227	0.129	0.185	0.30	0.39	
	Right side	0.375	0.227	0.129	0.185	0.60	0.69	
	Top side	0.776	0.227	0.129	0.185	1.00	1.09	
	Bottom side					0.00	0.00	
LTE Band 66 Ant 1	Front	0.541	0.227	0.129	0.185	0.77	0.86	
	Back	1.227	0.227	0.129	0.185	1.45	1.54	
	Left side	0.095	0.227	0.129	0.185	0.32	0.41	
	Right side	0.128	0.227	0.129	0.185	0.36	0.44	
	Top side		0.227	0.129	0.185	0.23	0.31	
	Bottom side	1.388				1.39	1.39	
FR1 n7 Ant 0	Front	0.751	0.227	0.129	0.185	0.98	1.07	
	Back	1.348	0.227	0.129	0.185	1.58	1.66	9
	Left side	0.612	0.227	0.129	0.185	0.84	0.93	
	Right side	0.097	0.227	0.129	0.185	0.32	0.41	
	Top side		0.227	0.129	0.185	0.23	0.31	
	Bottom side	0.77				0.77	0.77	
FR1 n78 Part27Q Ant 5	Front	0.421	0.227	0.129	0.185	0.65	0.74	
	Back	1.08	0.227	0.129	0.185	1.31	1.39	
	Left side	0.088	0.227	0.129	0.185	0.32	0.40	
	Right side	0.36	0.227	0.129	0.185	0.59	0.67	
	Top side	0.91	0.227	0.129	0.185	1.14	1.22	
	Bottom side					0.00	0.00	
FR1 n78 Part27Q Ant 0	Front	0.096	0.227	0.129	0.185	0.32	0.41	
	Back	0.366	0.227	0.129	0.185	0.59	0.68	
	Left side	0.135	0.227	0.129	0.185	0.36	0.45	
	Right side		0.227	0.129	0.185	0.23	0.31	
	Top side		0.227	0.129	0.185	0.23	0.31	
	Bottom side	0.106				0.11	0.11	
FR1 n78 Part27Q Ant 3	Front	0.179	0.227	0.129	0.185	0.41	0.49	
	Back	0.823	0.227	0.129	0.185	1.05	1.14	
	Left side	0.773	0.227	0.129	0.185	1.00	1.09	
	Right side		0.227	0.129	0.185	0.23	0.31	
	Top side	0.224	0.227	0.129	0.185	0.45	0.54	
	Bottom side					0.00	0.00	
FR1 n78 Part27Q Ant 8	Front	0.043	0.227	0.129	0.185	0.27	0.36	
	Back	0.615	0.227	0.129	0.185	0.84	0.93	
	Left side		0.227	0.129	0.185	0.23	0.31	



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	Right side	0.538	0.227	0.129	0.185	0.77	0.85	
	Top side	0.025	0.227	0.129	0.185	0.25	0.34	
	Bottom side					0.00	0.00	

<Uplink CA Mode >

WWAN Band	WWAN Band	Exposure Position	1	2	3	4	5	1+2+3	1+2+4+5
			WWAN	WWAN	WLAN2.4GHz Ant 6	WLAN5GHz Ant 6	Bluetooth Ant 6	Summed	Summed
			1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)
LTE Band 2 Ant 1	LTE Band 66 Ant 4	Front	0.589	0.186	0.227	0.129	0.185	1.00	1.09
		Back	0.589	0.465	0.227	0.129	0.185	1.28	1.37
		Left side	0.589	0.043	0.227	0.129	0.185	0.86	0.95
		Right side	0.589	0.024	0.227	0.129	0.185	0.84	0.93
		Top side		0.534	0.227	0.129	0.185	0.76	0.85
		Bottom side	0.589					0.59	0.59
LTE Band 4 Ant 1	LTE Band 5 Ant 4	Front	0.229	0.261	0.227	0.129	0.185	0.72	0.80
		Back	0.517	0.568	0.227	0.129	0.185	1.31	1.40
		Left side	0.039	0.135	0.227	0.129	0.185	0.40	0.49
		Right side	0.053	0.051	0.227	0.129	0.185	0.33	0.42
		Top side		0.481	0.227	0.129	0.185	0.71	0.80
		Bottom side	0.586					0.59	0.59
LTE Band 4 Ant 1	LTE Band 7 Ant 4	Front	0.229	0.17	0.227	0.129	0.185	0.63	0.71
		Back	0.517	0.406	0.227	0.129	0.185	1.15	1.24
		Left side	0.039	0.06	0.227	0.129	0.185	0.33	0.41
		Right side	0.053	0.013	0.227	0.129	0.185	0.29	0.38
		Top side		0.452	0.227	0.129	0.185	0.68	0.77
		Bottom side	0.586					0.59	0.59



<5G NR Mode>

WWAN Band	FR1 Band	Exposure Position	1	2	3	4	5	1+2+3	1+2+4+5
			WWAN	FR1	WLAN2.4GHz Ant 6	WLAN5GHz Ant 6	Bluetooth Ant 6	Summed	Summed
			1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)
LTE Band 7 Ant 0	FR1 n5 Ant 1	Front	0.548	0.567	0.227	0.129	0.185	1.34	1.43
		Back	0.548	0.567	0.227	0.129	0.185	1.34	1.43
		Left side	0.548	0.567	0.227	0.129	0.185	1.34	1.43
		Right side	0.548	0.567	0.227	0.129	0.185	1.34	1.43
		Top side			0.227	0.129	0.185	0.23	0.31
		Bottom side	0.548	0.567				1.12	1.12
LTE Band 2 Ant 4	FR1 n7 Ant 0	Front	0.176	0.578	0.227	0.129	0.185	0.98	1.07
		Back	0.505	0.578	0.227	0.129	0.185	1.31	1.40
		Left side	0.101	0.578	0.227	0.129	0.185	0.91	0.99
		Right side	0.043	0.578	0.227	0.129	0.185	0.85	0.94
		Top side	0.289		0.227	0.129	0.185	0.52	0.60
		Bottom side		0.578				0.58	0.58
LTE Band 5 Ant 4	FR1 n7 Ant 0	Front	0.261	0.578	0.227	0.129	0.185	1.07	1.15
		Back	0.568	0.578	0.227	0.129	0.185	1.37	1.46
		Left side	0.135	0.578	0.227	0.129	0.185	0.94	1.03
		Right side	0.051	0.578	0.227	0.129	0.185	0.86	0.94
		Top side	0.481		0.227	0.129	0.185	0.71	0.80
		Bottom side		0.578				0.58	0.58
LTE Band 66 Ant 4	FR1 n7 Ant 0	Front	0.186	0.578	0.227	0.129	0.185	0.99	1.08
		Back	0.465	0.578	0.227	0.129	0.185	1.27	1.36
		Left side	0.043	0.578	0.227	0.129	0.185	0.85	0.94
		Right side	0.024	0.578	0.227	0.129	0.185	0.83	0.92
		Top side	0.534		0.227	0.129	0.185	0.76	0.85
		Bottom side		0.578				0.58	0.58
LTE Band 2 Ant 4	FR1 n66 Ant 1	Front	0.176	0.591	0.227	0.129	0.185	0.99	1.08
		Back	0.505	0.591	0.227	0.129	0.185	1.32	1.41
		Left side	0.101	0.591	0.227	0.129	0.185	0.92	1.01
		Right side	0.043	0.591	0.227	0.129	0.185	0.86	0.95
		Top side	0.289		0.227	0.129	0.185	0.52	0.60
		Bottom side		0.591				0.59	0.59
LTE Band 5 Ant 4	FR1 n66 Ant 1	Front	0.261	0.591	0.227	0.129	0.185	1.08	1.17
		Back	0.568	0.591	0.227	0.129	0.185	1.39	1.47
		Left side	0.135	0.591	0.227	0.129	0.185	0.95	1.04
		Right side	0.051	0.591	0.227	0.129	0.185	0.87	0.96
		Top side	0.481		0.227	0.129	0.185	0.71	0.80
		Bottom side		0.591				0.59	0.59
LTE Band 7 Ant 4	FR1 n66 Ant 1	Front	0.17	0.591	0.227	0.129	0.185	0.99	1.08
		Back	0.406	0.591	0.227	0.129	0.185	1.22	1.31
		Left side	0.06	0.591	0.227	0.129	0.185	0.88	0.97
		Right side	0.013	0.591	0.227	0.129	0.185	0.83	0.92
		Top side	0.452		0.227	0.129	0.185	0.68	0.77
		Bottom side		0.591				0.59	0.59
LTE Band 2 Ant 4	FR1 n78 Ant 5	Front	0.176	0.572	0.227	0.129	0.185	0.98	1.06
		Back	0.505	0.572	0.227	0.129	0.185	1.30	1.39
		Left side	0.101	0.572	0.227	0.129	0.185	0.90	0.99
		Right side	0.043	0.572	0.227	0.129	0.185	0.84	0.93
		Top side	0.289	0.572	0.227	0.129	0.185	1.09	1.18
		Bottom side						0.00	0.00
LTE Band 7 Ant 4	FR1 n78 Ant 5	Front	0.17	0.572	0.227	0.129	0.185	0.97	1.06
		Back	0.406	0.572	0.227	0.129	0.185	1.21	1.29
		Left side	0.06	0.572	0.227	0.129	0.185	0.86	0.95



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LTE Band 66 Ant 4		Right side	0.013	0.572	0.227	0.129	0.185	0.81	0.90
		Top side	0.452	0.572	0.227	0.129	0.185	1.25	1.34
		Bottom side						0.00	0.00
	FR1 n78 Ant 5	Front	0.186	0.572	0.227	0.129	0.185	0.99	1.07
		Back	0.465	0.572	0.227	0.129	0.185	1.26	1.35
		Left side	0.043	0.572	0.227	0.129	0.185	0.84	0.93
		Right side	0.024	0.572	0.227	0.129	0.185	0.82	0.91
		Top side	0.534	0.572	0.227	0.129	0.185	1.33	1.42
		Bottom side						0.00	0.00

16.3 Body-Worn Accessory Exposure Conditions

WWAN Band	Exposure Position	1	2	3	4	1+2	1+3+4	Case No
		WWAN	WLAN2.4GHz Ant 6	WLAN5GHz Ant 6	Bluetooth Ant 6	Summed	Summed	
		1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	
GSM850 Ant 1	Front	0.618	0.227	0.212	0.185	0.85	1.02	
	Back	1.278	0.227	0.212	0.185	1.51	1.68	15
GSM1900 Ant 1	Front	0.523	0.227	0.212	0.185	0.75	0.92	
	Back	1.231	0.227	0.212	0.185	1.46	1.63	1
WCDMA II Ant 1	Front	1.024	0.227	0.212	0.185	1.25	1.42	
	Back	1.409	0.227	0.212	0.185	1.64	1.81	2&3
WCDMA IV Ant 1	Front	0.780	0.227	0.212	0.185	1.01	1.18	
	Back	1.433	0.227	0.212	0.185	1.66	1.83	4&5
WCDMA V Ant 1	Front	0.711	0.227	0.212	0.185	0.94	1.11	
	Back	1.393	0.227	0.212	0.185	1.62	1.79	6&7
LTE Band 2 Ant 1	Front	1.115	0.227	0.212	0.185	1.34	1.51	
	Back	1.301	0.227	0.212	0.185	1.53	1.70	8
LTE Band 7 Ant 0	Front	0.670	0.227	0.212	0.185	0.90	1.07	
	Back	1.401	0.227	0.212	0.185	1.63	1.80	9&10
LTE Band 12 Ant 1	Front	0.246	0.227	0.212	0.185	0.47	0.64	
	Back	0.564	0.227	0.212	0.185	0.79	0.96	
LTE Band 13 Ant 1	Front	0.256	0.227	0.212	0.185	0.48	0.65	
	Back	0.430	0.227	0.212	0.185	0.66	0.83	
LTE Band 26 Ant 1	Front	0.741	0.227	0.212	0.185	0.97	1.14	
	Back	1.332	0.227	0.212	0.185	1.56	1.73	11
LTE Band 41 Ant 0	Front	0.573	0.227	0.212	0.185	0.80	0.97	
	Back	1.263	0.227	0.212	0.185	1.49	1.66	12
LTE Band 42 Ant 5	Front	0.406	0.227	0.212	0.185	0.63	0.80	
	Back	1.022	0.227	0.212	0.185	1.25	1.42	
LTE Band 66 Ant 1	Front	0.713	0.227	0.212	0.185	0.94	1.11	
	Back	1.269	0.227	0.212	0.185	1.50	1.67	13
FR1 n7 Ant 0	Front	0.751	0.227	0.212	0.185	0.98	1.15	
	Back	1.348	0.227	0.212	0.185	1.58	1.75	14
FR1 n78 Part27Q Ant 5	Front	0.421	0.227	0.212	0.185	0.65	0.82	
	Back	1.080	0.227	0.212	0.185	1.31	1.48	
FR1 n78 Part27Q Ant 0	Front	0.096	0.227	0.212	0.185	0.32	0.49	
	Back	0.366	0.227	0.212	0.185	0.59	0.76	
FR1 n78 Part27Q Ant 3	Front	0.179	0.227	0.212	0.185	0.41	0.58	
	Back	0.823	0.227	0.212	0.185	1.05	1.22	
FR1 n78 Part27Q Ant 8	Front	0.043	0.227	0.212	0.185	0.27	0.44	
	Back	0.615	0.227	0.212	0.185	0.84	1.01	

<Uplink CA Mode >

WWAN Band	WWAN Band	Exposure Position	1	2	3	4	5	1+2+3	1+2+4+5
			WWAN	WWAN	WLAN2.4GHz Ant 6	WLAN5GHz Ant 6	Bluetooth Ant 6	Summed	Summed
			1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)
LTE Band 2 Ant 1	LTE Band 66 Ant 4	Front	0.589	0.230	0.227	0.212	0.185	1.05	1.22
		Back	0.589	0.570	0.227	0.212	0.185	1.39	1.56
LTE Band 4 Ant 1	LTE Band 5 Ant 4	Front	0.244	0.254	0.227	0.212	0.185	0.73	0.90
		Back	0.576	0.553	0.227	0.212	0.185	1.36	1.53



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LTE Band 4 Ant 1	LTE Band 7 Ant 4	Front	0.244	0.233	0.227	0.212	0.185	0.70	0.87
		Back	0.576	0.555	0.227	0.212	0.185	1.36	1.53

<5GNR Mode>

WWAN Band	FR1 Band	Exposure Position	1	2	3	4	5	1+2+3	1+2+4+5
			WWAN	FR1	WLAN2.4GHz Ant 6	WLAN5GHz Ant 6	Bluetooth Ant 6	Summed	Summed
			1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)
LTE Band 7 Ant 0	FR1 n5 Ant 1	Front	0.548	0.490	0.227	0.212	0.185	1.27	1.44
		Back	0.548	0.567	0.227	0.212	0.185	1.34	1.51
LTE Band 2 Ant 4	FR1 n7 Ant 0	Front	0.275	0.657	0.227	0.212	0.185	1.16	1.33
		Back	0.505	0.578	0.227	0.212	0.185	1.31	1.48
LTE Band 5 Ant 4	FR1 n7 Ant 0	Front	0.254	0.657	0.227	0.212	0.185	1.14	1.31
		Back	0.553	0.578	0.227	0.212	0.185	1.36	1.53
LTE Band 66 Ant 4	FR1 n7 Ant 0	Front	0.230	0.657	0.227	0.212	0.185	1.11	1.28
		Back	0.570	0.578	0.227	0.212	0.185	1.38	1.55
LTE Band 2 Ant 4	FR1 n66 Ant 1	Front	0.275	0.560	0.227	0.212	0.185	1.06	1.23
		Back	0.505	0.565	0.227	0.212	0.185	1.30	1.47
LTE Band 5 Ant 4	FR1 n66 Ant 1	Front	0.254	0.560	0.227	0.212	0.185	1.04	1.21
		Back	0.553	0.565	0.227	0.212	0.185	1.35	1.52
LTE Band 2 Ant 4	FR1 n78 Ant 5	Front	0.275	0.541	0.227	0.212	0.185	1.04	1.21
		Back	0.505	0.541	0.227	0.212	0.185	1.27	1.44
LTE Band 66 Ant 4	FR1 n78 Ant 5	Front	0.230	0.541	0.227	0.212	0.185	1.00	1.17
		Back	0.570	0.541	0.227	0.212	0.185	1.34	1.51
LTE Band 7 Ant 4	FR1 n66 Ant 1	Front	0.233	0.560	0.227	0.212	0.185	1.02	1.19
		Back	0.555	0.565	0.227	0.212	0.185	1.35	1.52
LTE Band 7 Ant 4	FR1 n78 Ant 5	Front	0.233	0.541	0.227	0.212	0.185	1.00	1.17
		Back	0.555	0.541	0.227	0.212	0.185	1.32	1.49

Sensor off:

WWAN Band	WWAN Band	Exposure Position	1	2	3	4	5	1+2+3	1+2+4+5	Case No
			WWAN	WWAN	WLAN2.4GHz Ant 6	WLAN5GHz Ant 6	Bluetooth Ant 6	Summed	Summed	
			1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	
LTE Band 2 Ant 1	LTE Band 66 Ant 4	Front	1.115	0.146	0.143	0.147	0.046	1.40	1.45	16&17
		Back	1.182	0.508	0.089	0.184	0.088	1.78	1.96	
LTE Band 4 Ant 1	LTE Band 5 Ant 4	Front	0.503	0.254	0.143	0.147	0.046	0.90	0.95	
		Back	0.472	0.553	0.089	0.184	0.088	1.11	1.30	
LTE Band 4 Ant 1	LTE Band 7 Ant 4	Front	0.503	0.127	0.143	0.147	0.046	0.77	0.82	
		Back	0.472	0.370	0.089	0.184	0.088	0.93	1.11	



16.4 Product specific 10g SAR Exposure Conditions

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.

WWAN Band	Exposure Position	1	2	1+2	SPLSR
		WWAN 10g SAR (W/kg)	WLAN5GHz Ant 6 10g SAR (W/kg)	Summed 10g SAR (W/kg)	
GSM1900 Ant 1	Front		1.088	1.09	
	Back	2.412	1.088	3.50	
	Left side		1.088	1.09	
	Right side		1.088	1.09	
	Top side		1.088	1.09	
	Bottom side	2.217		2.22	
WCDMA II Ant 1	Front	1.54	1.088	2.63	
	Back	1.696	1.088	2.78	
	Left side		1.088	1.09	
	Right side		1.088	1.09	
	Top side		1.088	1.09	
	Bottom side	3.347		3.35	
WCDMA IV Ant 1	Front	1.328	1.088	2.42	
	Back	3.279	1.088	4.37	1
	Left side		1.088	1.09	
	Right side		1.088	1.09	
	Top side		1.088	1.09	
	Bottom side	1.743		1.74	
WCDMA V Ant 1	Front		1.088	1.09	
	Back	2.612	1.088	3.70	
	Left side		1.088	1.09	
	Right side		1.088	1.09	
	Top side		1.088	1.09	
	Bottom side			0.00	
LTE Band 2 Ant 1	Front	1.543	1.088	2.63	
	Back	1.954	1.088	3.04	
	Left side		1.088	1.09	
	Right side		1.088	1.09	
	Top side		1.088	1.09	
	Bottom side	3.231		3.23	
LTE Band 7 Ant 0	Front	1.591	1.088	2.68	
	Back	3.275	1.088	4.36	2
	Left side	1.289	1.088	2.38	
	Right side		1.088	1.09	
	Top side		1.088	1.09	
	Bottom side	1.552		1.55	
LTE Band 26 Ant 1	Front		1.088	1.09	
	Back	0.768	1.088	1.86	
	Left side		1.088	1.09	
	Right side		1.088	1.09	
	Top side		1.088	1.09	
	Bottom side			0.00	
LTE Band 41 Ant 0	Front	1.436	1.088	2.52	
	Back	3.084	1.088	4.17	5
	Left side		1.088	1.09	
	Right side		1.088	1.09	
	Top side		1.088	1.09	
	Bottom side	1.356		1.36	



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LTE Band 42 Ant 5	Front		1.088	1.09	
	Back	1.663	1.088	2.75	
	Left side		1.088	1.09	
	Right side		1.088	1.09	
	Top side	1.112	1.088	2.20	
	Bottom side			0.00	
LTE Band 66 Ant 1	Front	1.546	1.088	2.63	
	Back	3.23	1.088	4.32	3
	Left side		1.088	1.09	
	Right side		1.088	1.09	
	Top side		1.088	1.09	
	Bottom side	3.368		3.37	
FR1 n7 Ant 0	Front	1.951	1.088	3.04	
	Back	3.283	1.088	4.37	4
	Left side	1.532	1.088	2.62	
	Right side		1.088	1.09	
	Top side		1.088	1.09	
	Bottom side	1.808		1.81	
FR1 n78 Part27Q Ant 5	Front		1.088	1.09	
	Back	1.632	1.088	2.72	
	Left side		1.088	1.09	
	Right side		1.088	1.09	
	Top side	1.568	1.088	2.66	
	Bottom side			0.00	
FR1 n78 Part27Q Ant 3	Front		1.088	1.09	
	Back	2.187	1.088	3.28	
	Left side	1.246	1.088	2.33	
	Right side		1.088	1.09	
	Top side		1.088	1.09	
	Bottom side			0.00	
FR1 n78 Part27Q Ant 8	Front		1.088	1.09	
	Back	1.641	1.088	2.73	
	Left side		1.088	1.09	
	Right side	1.168	1.088	2.26	
	Top side		1.088	1.09	
	Bottom side			0.00	

<Uplink CA Mode >

WWAN Band	WWAN Band	Exposure Position	1	2	3	1+2+3
			WWAN	WWAN	WLAN5GHz Ant 6	Summed
			10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)
LTE Band 2 Ant 1	LTE Band 66 Ant 4	Front	0.93		1.088	2.02
		Back	0.93		1.088	2.02
		Left side			1.088	1.09
		Right side			1.088	1.09
		Top side			1.088	1.09
		Bottom side	0.93			0.93
LTE Band 4 Ant 1	LTE Band 5 Ant 4	Front	0.592		1.088	1.68
		Back	0.943		1.088	2.03
		Left side			1.088	1.09
		Right side			1.088	1.09
		Top side			1.088	1.09
		Bottom side	0.987			0.99
LTE Band 4 Ant 1	LTE Band 7 Ant 4	Front	0.592	0.867	1.088	2.55
		Back	0.943	1.011	1.088	3.04
		Left side			1.088	1.09
		Right side			1.088	1.09
		Top side		1.41	1.088	2.50
		Bottom side	0.987			0.99

<5G NR Mode>

WWAN Band	FR1 Band	Exposure Position	1	2	2	1+2+3
			WWAN	FR1	WLAN5GHz Ant 6	Summed
			10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)
LTE Band 7 Ant 0	FR1 n5 Ant 1	Front	1.312		1.088	2.40
		Back	1.312		1.088	2.40
		Left side	1.312		1.088	2.40
		Right side			1.088	1.09
		Top side			1.088	1.09
		Bottom side	1.312			1.31
LTE Band 2 Ant 4	FR1 n7 Ant 0	Front		1.306	1.088	2.39
		Back	1.202	1.306	1.088	3.60
		Left side		1.306	1.088	2.39
		Right side			1.088	1.09
		Top side	0.855		1.088	1.94
		Bottom side		1.306		1.31
LTE Band 5 Ant 4	FR1 n7 Ant 0	Front		1.306	1.088	2.39
		Back		1.306	1.088	2.39
		Left side		1.306	1.088	2.39
		Right side			1.088	1.09
		Top side			1.088	1.09
		Bottom side		1.306		1.31
LTE Band 66 Ant 4	FR1 n7 Ant 0	Front		1.306	1.088	2.39
		Back		1.306	1.088	2.39
		Left side		1.306	1.088	2.39
		Right side			1.088	1.09
		Top side			1.088	1.09

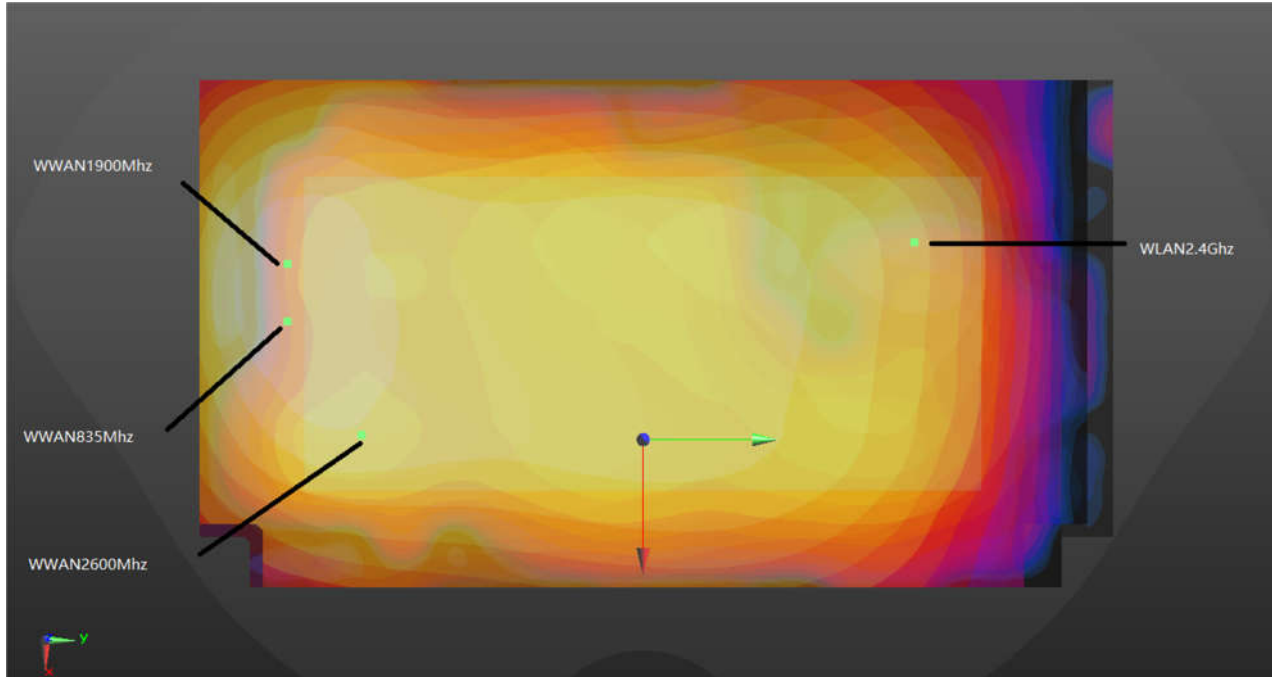


		Bottom side		1.306		1.31
LTE Band 2 Ant 4	FR1 n66 Ant 1	Front		1.041	1.088	2.13
		Back	1.202	1.38	1.088	3.67
		Left side			1.088	1.09
		Right side			1.088	1.09
		Top side	0.855		1.088	1.94
		Bottom side		1.401		1.40
LTE Band 5 Ant 4	FR1 n66 Ant 1	Front		1.041	1.088	2.13
		Back		1.38	1.088	2.47
		Left side			1.088	1.09
		Right side			1.088	1.09
		Top side			1.088	1.09
		Bottom side		1.401		1.40
LTE Band 7 Ant 4	FR1 n66 Ant 1	Front	0.867	1.041	1.088	3.00
		Back	1.011	1.38	1.088	3.48
		Left side			1.088	1.09
		Right side			1.088	1.09
		Top side	1.41		1.088	2.50
		Bottom side		1.401		1.40
LTE Band 2 Ant 4	FR1 n78 Ant 5	Front		1.399	1.088	2.49
		Back	1.202	1.399	1.088	3.69
		Left side			1.088	1.09
		Right side			1.088	1.09
		Top side	0.855	1.399	1.088	3.34
		Bottom side				0.00
LTE Band 7 Ant 4	FR1 n78 Ant 5	Front	0.867	1.399	1.088	3.35
		Back	1.011	1.399	1.088	3.50
		Left side			1.088	1.09
		Right side			1.088	1.09
		Top side	1.41	1.399	1.088	3.90
		Bottom side				0.00
LTE Band 66 Ant 4	FR1 n78 Ant 5	Front		1.399	1.088	2.49
		Back		1.399	1.088	2.49
		Left side			1.088	1.09
		Right side			1.088	1.09
		Top side		1.399	1.088	2.49
		Bottom side				0.00

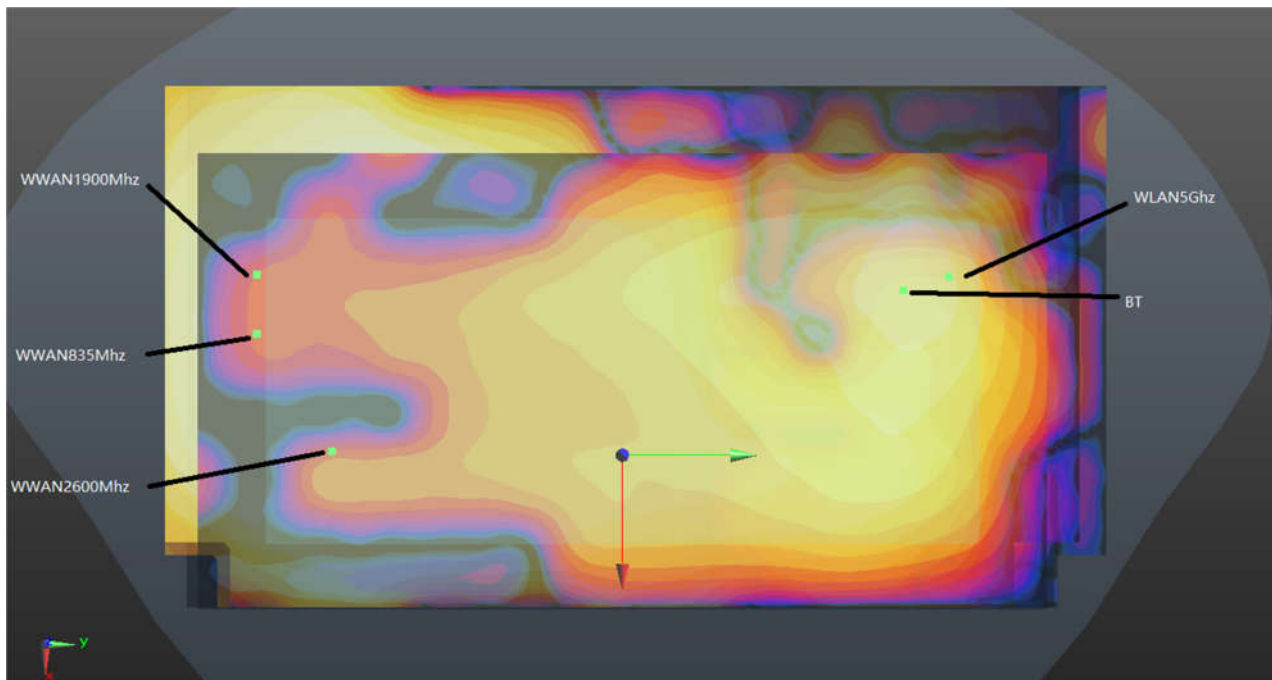
16.5 SPLSR Evaluation and Analysis

General Note:

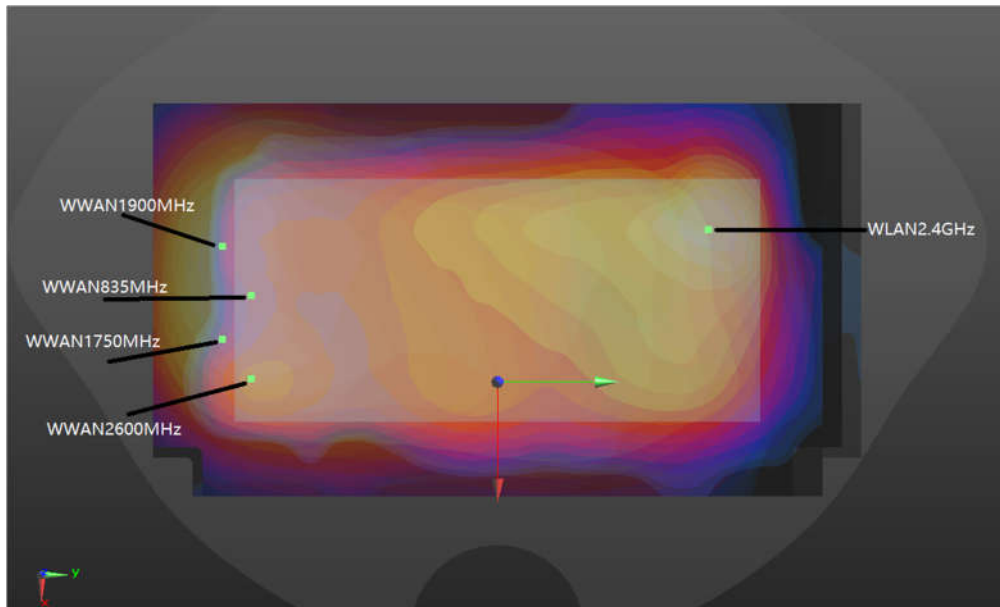
1. When standalone SAR is measured for both antennas in the pair, the peak location separation distance is computed by the square root of $[(x1-x2)^2 + (y1-y2)^2 + (z1-z2)^2]$, where $(x1, y1, z1)$ and $(x2, y2, z2)$ are the coordinates in the area scans or extrapolated peak SAR locations in the zoom 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.



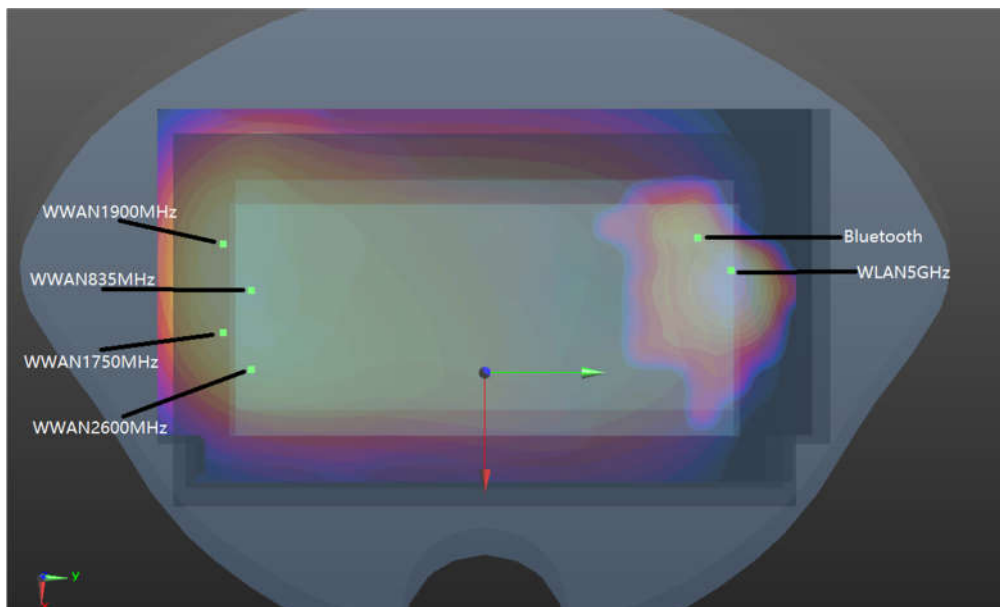
Hotspot Body worn WWAN+WLAN2.4GHz_Back 5mm



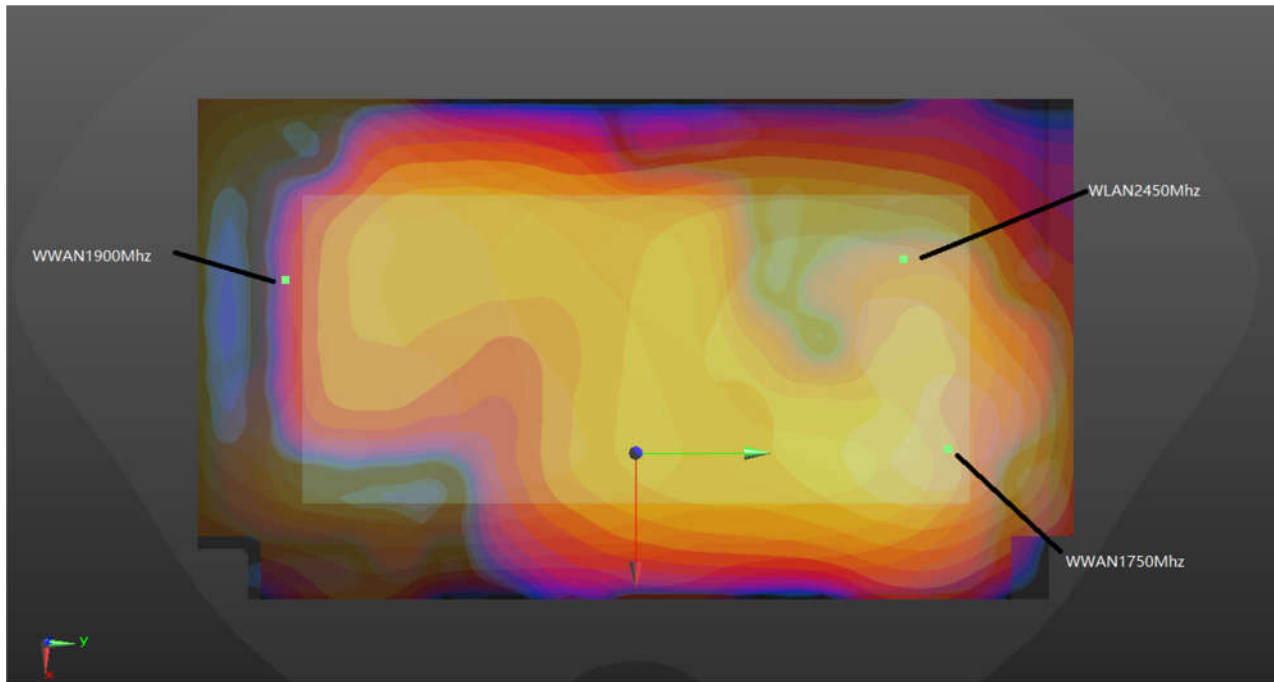
Hotspot WWAN+WLAN5GHz+BT_Back 5mm



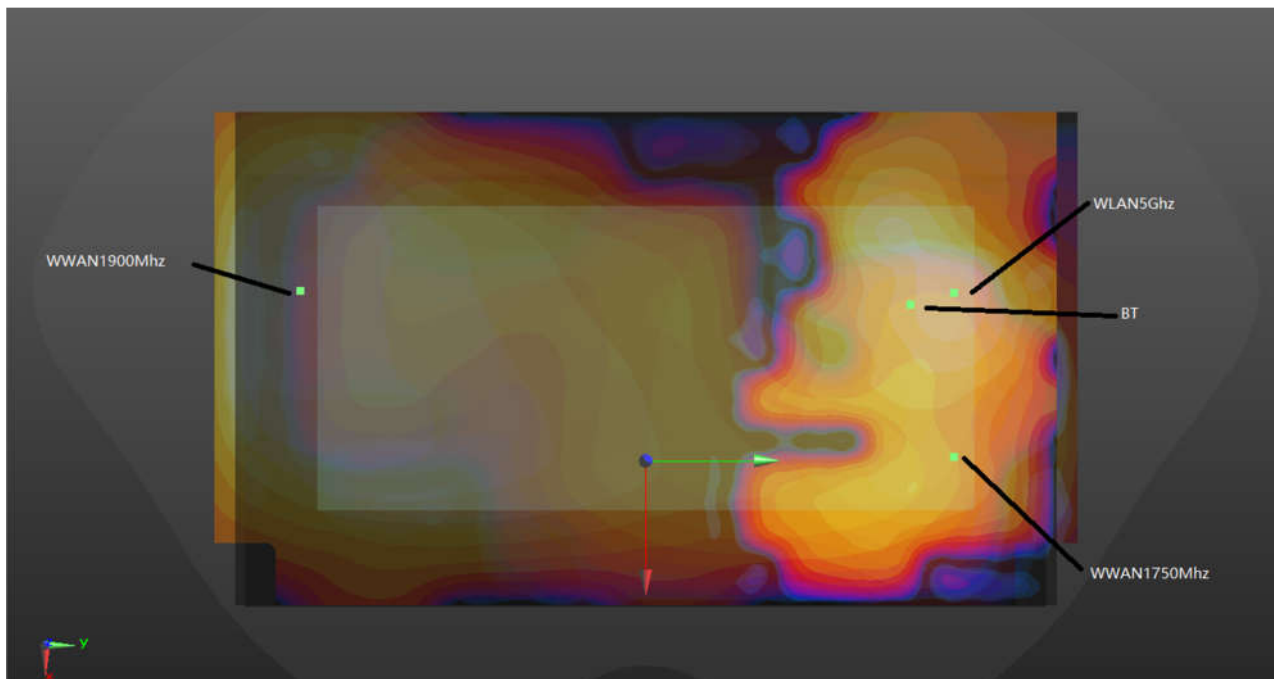
Body worn WWAN+WLAN2.4GHz_Back 5mm



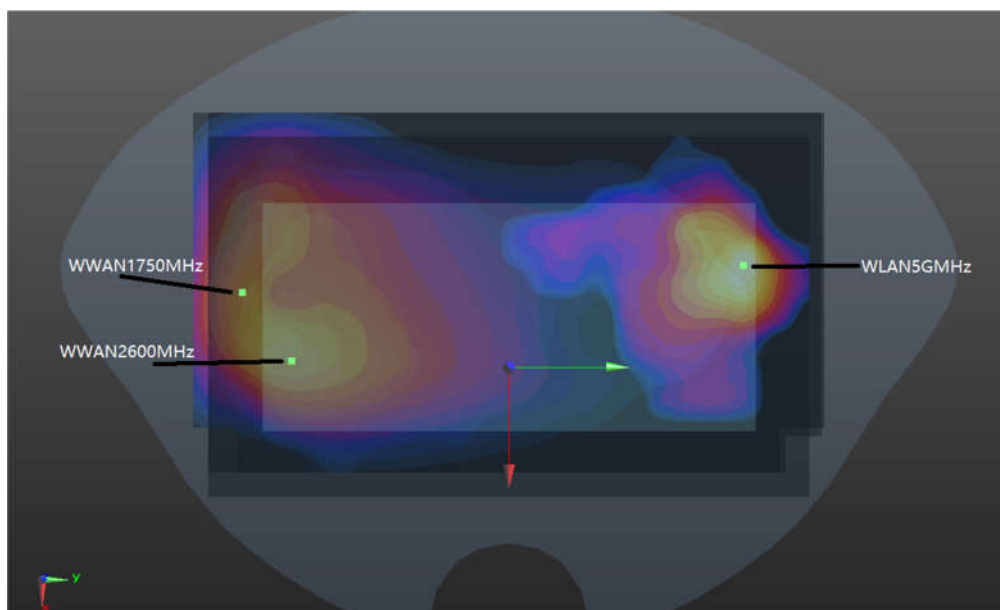
Body worn WWAN+WLAN5GHz+BT_Back 5mm



Body worn WWAN+WLAN2.4GHz_Back 17mm



Body worn WWAN+WLAN5GHz+BT_Back 17mm


WWAN+WLAN5GHz _Back 0mm

Hotspot											
Case	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	WCDMA II	Back	1.409	5mm	-10.3	-82.3	0.67	149.2	1.64	0.01	Not required
	WLAN2.4GHz		0.227	5mm	-24.6	66.2	0.17				
Case 2	WCDMA II	Back	1.409	5mm	-11.9	-80.8	0.73	142.4	1.54	0.01	Not required
	WLAN5GHz		0.129	5mm	-33	60	0.13				
	WCDMA II	Back	1.409	5mm	-11.9	-80.8	0.73	153.7	1.59	0.01	Not required
	Bluetooth		0.185	5mm	-23.4	72.4	-4.24				
	WLAN5GHz	Back	0.129	5mm	-33	60	0.13	16.3	0.31	0.01	Not required
	Bluetooth		0.185	5mm	-23.4	72.4	-4.24				
Case 3	WCDMA V	Back	1.393	5mm	-4.6	-84	0.73	151.5	1.62	0.01	Not required
	WLAN2.4GHz		0.227	5mm	-24.6	66.2	0.17				
Case 4	WCDMA V	Back	1.393	5mm	-4.6	-84	0.73	146.8	1.52	0.01	Not required
	WLAN5GHz		0.129	5mm	-33	60	0.13				
	WCDMA V	Back	1.393	5mm	-4.6	-84	0.73	157.6	1.58	0.01	Not required
	Bluetooth		0.185	5mm	-23.4	72.4	-4.24				
	WLAN5GHz	Back	0.129	5mm	-33	60	0.13	16.3	0.31	0.01	Not required
	Bluetooth		0.185	5mm	-23.4	72.4	-4.24				
Case 5	LTE Band 2	Back	1.301	5mm	-13.3	-82.4	0.64	143.8	1.43	0.01	Not required
	WLAN5GHz		0.129	5mm	-33	60	0.13				
	LTE Band 2	Back	1.301	5mm	-13.3	-82.4	0.64	155.2	1.49	0.01	Not required
	Bluetooth		0.185	5mm	-23.4	72.4	-4.24				
	WLAN5GHz	Back	0.129	5mm	-33	60	0.13	16.3	0.31	0.01	Not required
	Bluetooth		0.185	5mm	-23.4	72.4	-4.24				



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Case 6	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				
	LTE Band 7	Back	1.401	5mm	25	-74	0.78	148.7	1.63	0.01	Not required
	WLAN2.4GHz		0.227	5mm	-24.6	66.2	0.17				
Case 7	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				
	LTE Band 7	Back	1.401	5mm	25	-74	0.78	146.0	1.53	0.01	Not required
	WLAN5GHz		0.129	5mm	-33	60	0.13				
	LTE Band 7	Back	1.401	5mm	25	-74	0.78	154.3	1.59	0.01	Not required
	Bluetooth		0.185	5mm	-23.4	72.4	-4.24				
	WLAN5GHz	Back	0.129	5mm	-33	60	0.13	16.3	0.31	0.01	Not required
	Bluetooth		0.185	5mm	-23.4	72.4	-4.24				
Case 8	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				
	LTE Band 26	Back	1.332	5mm	-7.9	-81.4	0.65	143.6	1.46	0.01	Not required
	WLAN5GHz		0.129	5mm	-33	60	0.13				
	LTE Band 26	Back	1.332	5mm	-7.9	-81.4	0.65	154.7	1.52	0.01	Not required
	Bluetooth		0.185	5mm	-23.4	72.4	-4.24				
	WLAN5GHz	Back	0.129	5mm	-33	60	0.13	16.3	0.31	0.01	Not required
	Bluetooth		0.185	5mm	-23.4	72.4	-4.24				
Case 9	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				
	FR1 n7	Back	1.348	5mm	25	-75.4	0.84	147.3	1.56	0.01	Not required
	WLAN5GHz		0.212	5mm	-33	60	0.13				
	FR1 n7	Back	1.348	5mm	25	-75.4	0.84	155.6	1.53	0.01	Not required
	Bluetooth		0.185	5mm	-23.4	72.4	-4.24				
	WLAN5GHz	Back	0.212	5mm	-33	60	0.13	16.3	0.40	0.02	Not required
	Bluetooth		0.185	5mm	-23.4	72.4	-4.24				

Body worn											
Case 1	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				
	GSM1900	Back	1.231	5mm	-10.3	-82.3	0.67	144.1	1.44	0.01	Not required
	WLAN5GHz		0.212	5mm	-33	60	0.13				
	GSM1900	Back	1.231	5mm	-10.3	-82.3	0.67	155.3	1.42	0.01	Not required
	Bluetooth		0.185	5mm	-23.4	72.4	-4.24				
	WLAN5GHz	Back	0.212	5mm	-33	60	0.13	16.3	0.40	0.02	Not required
	Bluetooth		0.185	5mm	-23.4	72.4	-4.24				
Case 2	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				
	WCDMA II	Back	1.409	5mm	-10.3	-82.3	0.67	149.2	1.64	0.01	Not required
	WLAN2.4GHz		0.227	5mm	-24.6	66.2	0.17				
Case 3	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				
	WCDMA II	Back	1.409	5mm	-11.9	-80.8	0.73	142.4	1.62	0.01	Not required
	WLAN5GHz		0.212	5mm	-33	60	0.13				
	WCDMA II	Back	1.409	5mm	-11.9	-80.8	0.73	153.7	1.59	0.01	Not required
	Bluetooth		0.185	5mm	-23.4	72.4	-4.24				
	WLAN5GHz	Back	0.212	5mm	-33	60	0.13	16.3	0.40	0.02	Not required
	Bluetooth		0.185	5mm	-23.4	72.4	-4.24				
Case 4	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				



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	WCDMA IV	Back	1.433	5mm	-5.5	-79.7	0.66	147.1	1.66	0.01	Not required
	WLAN2.4GHz		0.227	5mm	-24.6	66.2	0.17				
Case 5	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
	WCDMA IV	Back	1.433	5mm	-5.5	-79.7	0.66	142.4	1.65	0.01	Not required
	WLAN5GHz		0.212	5mm	-33	60	0.13				
	WCDMA IV	Back	1.433	5mm	-5.5	-79.7	0.66	153.2	1.62	0.01	Not required
	Bluetooth		0.185	5mm	-23.4	72.4	-4.24				
	WLAN5GHz	Back	0.212	5mm	-33	60	0.13	16.3	0.40	0.02	Not required
	Bluetooth		0.185	5mm	-23.4	72.4	-4.24				
Case 6	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
	WCDMA V	Back	1.393	5mm	-4.6	-84	0.73	151.5	1.62	0.01	Not required
	WLAN2.4GHz		0.227	5mm	-24.6	66.2	0.17				
Case 7	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
	WCDMA V	Back	1.393	5mm	-4.6	-84	0.73	146.8	1.61	0.01	Not required
	WLAN5GHz		0.212	5mm	-33	60	0.13				
	WCDMA V	Back	1.393	5mm	-4.6	-84	0.73	157.6	1.58	0.01	Not required
	Bluetooth		0.185	5mm	-23.4	72.4	-4.24				
	WLAN5GHz	Back	0.212	5mm	-33	60	0.13	16.3	0.40	0.02	Not required
	Bluetooth		0.185	5mm	-23.4	72.4	-4.24				
Case 8	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
	LTE Band 2	Back	1.301	5mm	-13.3	-82.4	0.64	143.8	1.51	0.01	Not required
	WLAN5GHz		0.212	5mm	-33	60	0.13				
	LTE Band 2	Back	1.301	5mm	-13.3	-82.4	0.64	155.2	1.49	0.01	Not required
	Bluetooth		0.185	5mm	-23.4	72.4	-4.24				
	WLAN5GHz	Back	0.212	5mm	-33	60	0.13	16.3	0.40	0.02	Not required
	Bluetooth		0.185	5mm	-23.4	72.4	-4.24				
Case 9	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
	LTE Band 7	Back	1.401	5mm	25	-74	0.78	148.7	1.63	0.01	Not required
	WLAN2.4GHz		0.227	5mm	-24.6	66.2	0.17				
Case 10	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
	LTE Band 7	Back	1.401	5mm	25	-74	0.78	146.0	1.61	0.01	Not required
	WLAN5GHz		0.212	5mm	-33	60	0.13				
	LTE Band 7	Back	1.401	5mm	25	-74	0.78	154.3	1.59	0.01	Not required
	Bluetooth		0.185	5mm	-23.4	72.4	-4.24				
	WLAN5GHz	Back	0.212	5mm	-33	60	0.13	16.3	0.40	0.02	Not required
	Bluetooth		0.185	5mm	-23.4	72.4	-4.24				
Case 11	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
	LTE Band 26	Back	1.332	5mm	-7.9	-81.4	0.65	143.6	1.54	0.01	Not required
	WLAN5GHz		0.212	5mm	-33	60	0.13				
	LTE Band 26	Back	1.332	5mm	-7.9	-81.4	0.65	154.7	1.52	0.01	Not required



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	Bluetooth		0.185	5mm	-23.4	72.4	-4.24				
	WLAN5GHz	Back	0.212	5mm	-33	60	0.13	16.3	0.40	0.02	Not required
	Bluetooth		0.185	5mm	-23.4	72.4	-4.24				
Case 12	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
	LTE Band 41	Back	1.263	5mm	26	-70.6	0.88	143.3	1.48	0.01	Not required
	WLAN5GHz		0.212	5mm	-33	60	0.13				
	LTE Band 41	Back	1.263	5mm	26	-70.6	0.88	151.4	1.45	0.01	Not required
	Bluetooth		0.185	5mm	-23.4	72.4	-4.24				
	WLAN5GHz	Back	0.212	5mm	-33	60	0.13	16.3	0.40	0.02	Not required
	Bluetooth		0.185	5mm	-23.4	72.4	-4.24				
Case 13	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
	LTE Band 66	Back	1.269	5mm	10.4	-84	0.72	150.4	1.48	0.01	Not required
	WLAN5GHz		0.212	5mm	-33	60	0.13				
	LTE Band 66	Back	1.269	5mm	10.4	-84	0.72	160.1	1.45	0.01	Not required
	Bluetooth		0.185	5mm	-23.4	72.4	-4.24				
	WLAN5GHz	Back	0.212	5mm	-33	60	0.13	16.3	0.40	0.02	Not required
	Bluetooth		0.185	5mm	-23.4	72.4	-4.24				
Case 14	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
	FR1 n7	Back	1.348	5mm	25	-75.4	0.84	147.3	1.56	0.01	Not required
	WLAN5GHz		0.212	5mm	-33	60	0.13				
	FR1 n7	Back	1.348	5mm	25	-75.4	0.84	155.6	1.53	0.01	Not required
	Bluetooth		0.185	5mm	-23.4	72.4	-4.24				
	WLAN5GHz	Back	0.212	5mm	-33	60	0.13	16.3	0.40	0.02	Not required
	Bluetooth		0.185	5mm	-23.4	72.4	-4.24				
Case 15	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
	GSM850	Back	1.278	5mm	-8	-83	0.66	145.2	1.49	0.01	Not required
	WLAN5GHz		0.212	5mm	-33	60	0.13				
	GSM850	Back	1.279	5mm	-8	-83	0.66	156.2	1.46	0.01	Not required
	Bluetooth		0.185	5mm	-23.4	72.4	-4.24				
	WLAN5GHz	Back	0.212	5mm	-33	60	0.13	16.3	0.40	0.02	Not required
	Bluetooth		0.185	5mm	-23.4	72.4	-4.24				

Case 16	Band	Position	SAR (W/kg)	Gap (mm)	SAR peak location (mm)			3D distance (mm)	Summed SAR (W/kg)	SPLSR Results	Simultaneous SAR
	LTE Band 2	Back	1.182	17mm	-13.3	-82.4	0.64	165.7	1.69	0.01	Not required
	LTE Band 66		0.508	17mm	20.8	79.8	0.85				
	LTE Band 2	Back	1.182	17mm	-13.3	-82.4	0.64	155.2	1.27	0.01	Not required
	WLAN2.4GHz		0.089	17mm	-23.4	72.4	-4.24				
	LTE Band 66	Back	0.508	17mm	20.8	79.8	0.85	45.1	0.60	0.01	Not required
	WLAN2.4GHz		0.089	17mm	-23.4	72.4	-4.24				



	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 17	LTE Band 2	Back	1.182	17mm	-13.3	-82.4	0.64	165.7	1.69	0.01	Not required
	LTE Band 66		0.508	17mm	20.8	79.8	0.85				
	LTE Band 2	Back	1.182	17mm	-13.3	-82.4	0.64	143.8	1.37	0.01	Not required
	WLAN5GHz		0.184	17mm	-33	60	0.13				
	LTE Band 2	Back	1.182	17mm	-13.3	-82.4	0.64	155.2	1.27	0.01	Not required
	Bluetooth		0.088	17mm	-23.4	72.4	-4.24				
	LTE Band 66	Back	0.508	17mm	20.8	79.8	0.85	57.3	0.69	0.01	Not required
	WLAN5GHz		0.184	17mm	-33	60	0.13				
	LTE Band 66	Back	0.508	17mm	20.8	79.8	0.85	45.1	0.60	0.01	Not required
	Bluetooth		0.088	17mm	-23.4	72.4	-4.24				
	WLAN5GHz	Back	0.184	17mm	-33	60	0.13	16.3	0.27	0.01	Not required
	Bluetooth		0.088	17mm	-23.4	72.4	-4.24				

Extremity											
	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	WCDMA IV	Back	3.279	0mm	13.5	-82.4	1.09	163.2	4.37	0.06	Not required
	WLAN5GHz		1.088	0mm	-20.2	77.2	-3.79				
Case 2	LTE Band 7	Back	3.275	0mm	23.8	-75.2	0.97	158.7	4.36	0.06	Not required
	WLAN5GHz		1.088	0mm	-20.2	77.2	-3.79				
Case 3	LTE Band 66	Back	3.23	0mm	-8	-83.7	0.65	161.4	4.32	0.06	Not required
	WLAN5GHz		1.088	0mm	-20.2	77.2	-3.79				
Case 4	FR1 n7	Back	3.283	0mm	23.8	-75.4	0.87	158.9	4.37	0.06	Not required
	WLAN5GHz		1.088	0mm	-20.2	77.2	-3.79				
Case 5	LTE Band 41	Back	3.084	0mm	23.8	-75.2	0.99	158.7	4.17	0.05	Not required
	WLAN5GHz		1.088	0mm	-20.2	77.2	-3.79				

Test Engineer : Martin Li, Varus Wang, Ricky Gu, Light Wang, Damon Zhu

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: $f = 750 \text{ MHz}$; $\sigma = 0.914 \text{ S/m}$; $\epsilon_r = 41.772$; $\rho = 1000 \text{ kg/m}^3$

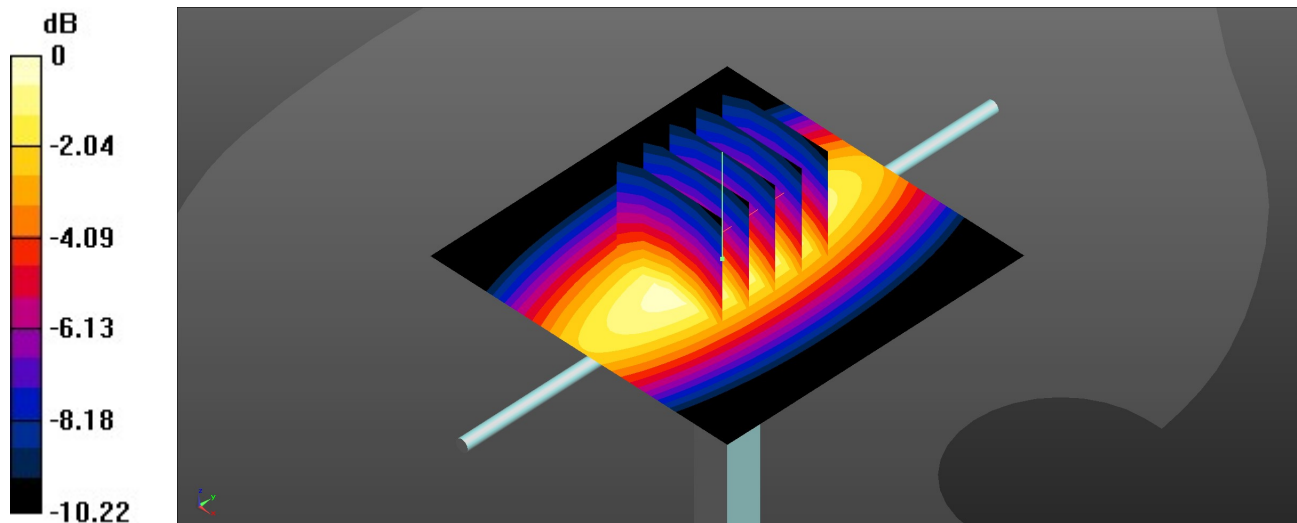
Ambient Temperature : 23.1 °C; Liquid Temperature : 22.7 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7706; ConvF(10.86, 10.86, 10.86); Calibrated: 2022/1/20
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1279; Calibrated: 2021/9/21
- 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 = 25.67 V/m; Power Drift = -0.00 dB
Peak SAR (extrapolated) = 0.638 W/kg
SAR(1 g) = 0.422 W/kg; SAR(10 g) = 0.279 W/kg
Maximum value of SAR (measured) = 0.564 W/kg



0 dB = 0.564 W/kg = -2.49 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: $f = 835 \text{ MHz}$; $\sigma = 0.926 \text{ S/m}$; $\epsilon_r = 41.056$; $\rho = 1000 \text{ kg/m}^3$

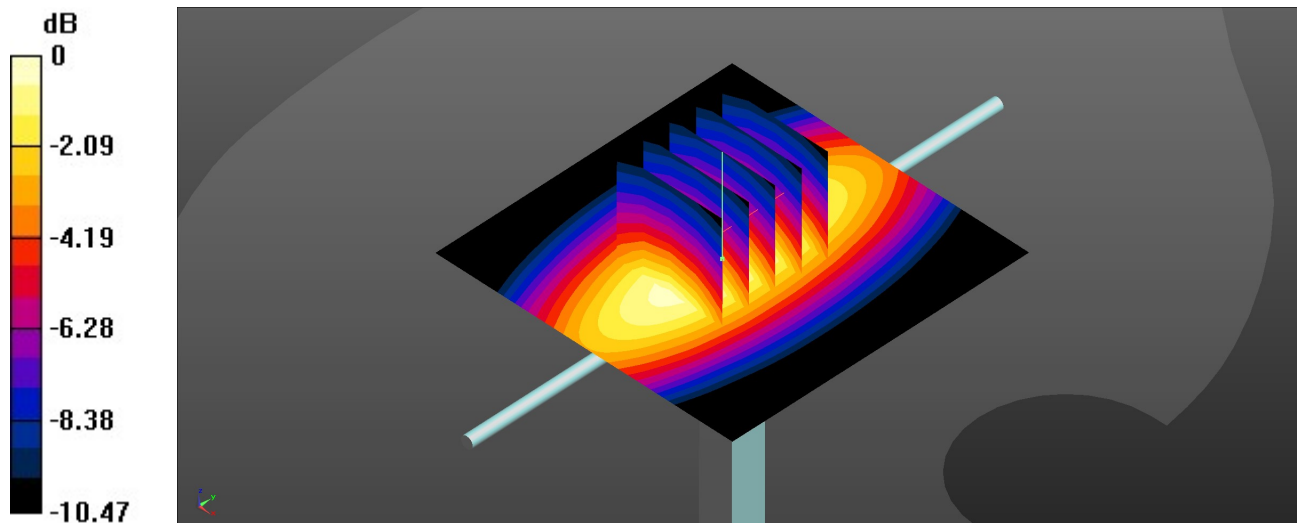
Ambient Temperature : 23.3 °C; Liquid Temperature : 22.8 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7706; ConvF(10.57, 10.57, 10.57); Calibrated: 2022/1/20
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1279; Calibrated: 2021/9/21
- 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) = 0.679 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 = 28.18 V/m; Power Drift = 0.00 dB
Peak SAR (extrapolated) = 0.769 W/kg
SAR(1 g) = 0.501 W/kg; SAR(10 g) = 0.326 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; $\sigma = 1.409$ S/m; $\epsilon_r = 40.678$; $\rho = 1000$ kg/m³

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

DASY5 Configuration:

- Probe: EX3DV4 - SN7706; ConvF(9.22, 9.22, 9.22); Calibrated: 2022/1/20
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1279; Calibrated: 2021/9/21
- Phantom: SAM Twin Phantom; Type: SAM Twin; Serial: TP-2022
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

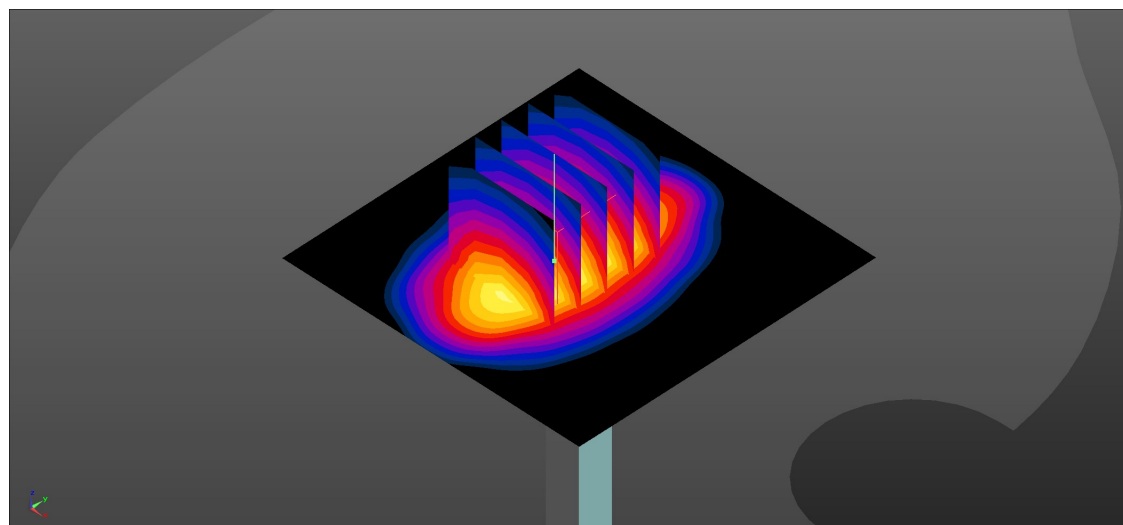
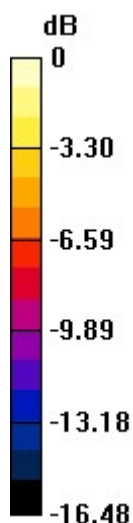
Pin=50mW/Area Scan (61x61x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 2.93 W/kg**Pin=50mW/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 45.26 V/m; Power Drift = 0.17 dB

Peak SAR (extrapolated) = 3.46 W/kg

SAR(1 g) = 1.94 W/kg; SAR(10 g) = 1.02 W/kg

Maximum value of SAR (measured) = 2.95 W/kg



0 dB = 2.95 W/kg = 4.70 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; $\epsilon_r = 39.78$; $\rho = 1000$ kg/m³

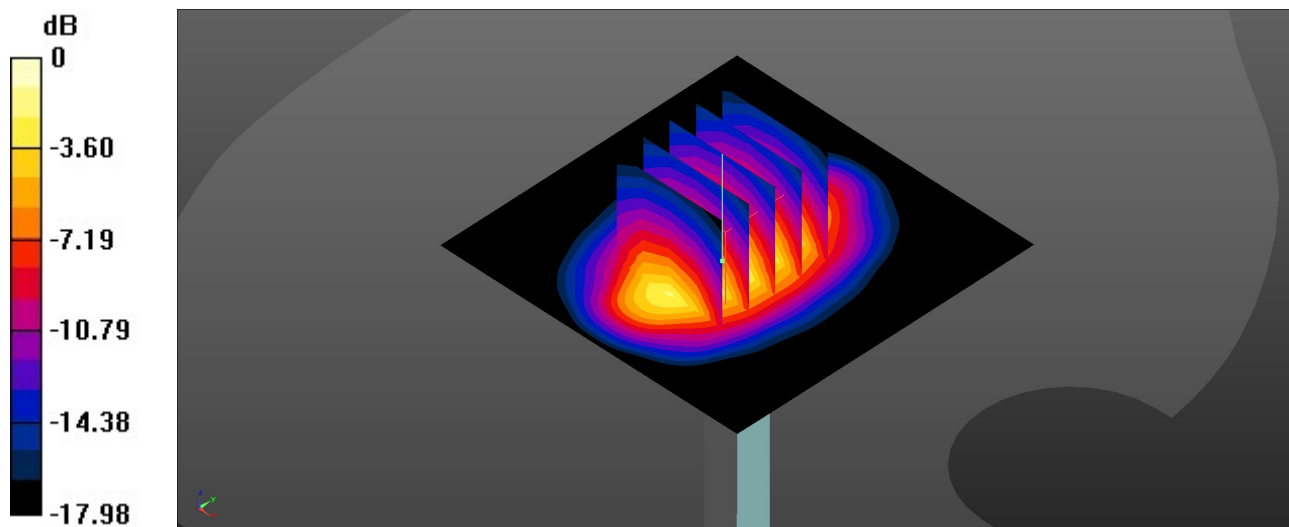
Ambient Temperature : 23.1 °C; Liquid Temperature : 22.9 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7706; ConvF(8.8, 8.8, 8.8); Calibrated: 2022/1/20
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1279; Calibrated: 2021/9/21
- 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 = 47.02 V/m; Power Drift = -0.16 dB
Peak SAR (extrapolated) = 3.78 W/kg
SAR(1 g) = 2.03 W/kg; SAR(10 g) = 1.05 W/kg
Maximum value of SAR (measured) = 3.16 W/kg



0 dB = 3.16 W/kg = 5.00 dBW/kg

System Check_Head_2450MHz**DUT: D2450V2 - SN:924**

Communication System: UID 0, CW (0); Frequency: 2450 MHz; Duty Cycle: 1:1

Medium: HSL_2450 Medium parameters used: $f = 2450$ MHz; $\sigma = 1.809$ S/m; $\epsilon_r = 38.523$; $\rho = 1000$ kg/m³

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

DASY5 Configuration:

- Probe: EX3DV4 - SN7706; ConvF(8.29, 8.29, 8.29); Calibrated: 2022/1/20
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1279; Calibrated: 2021/9/21
- 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) = 4.01 W/kg

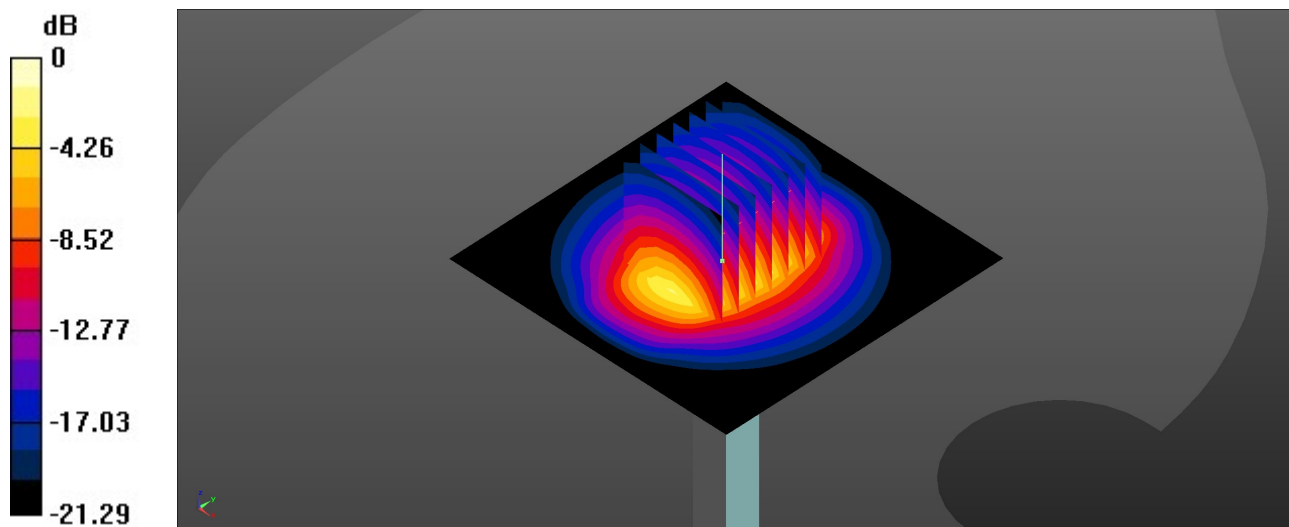
Pin=50mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 48.79 V/m; Power Drift = -0.07 dB

Peak SAR (extrapolated) = 4.84 W/kg

SAR(1 g) = 2.49 W/kg; SAR(10 g) = 1.14 W/kg

Maximum value of SAR (measured) = 3.98 W/kg



0 dB = 3.98 W/kg = 6.00 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; $\sigma = 1.926$ S/m; $\epsilon_r = 38.23$; $\rho = 1000$ kg/m³

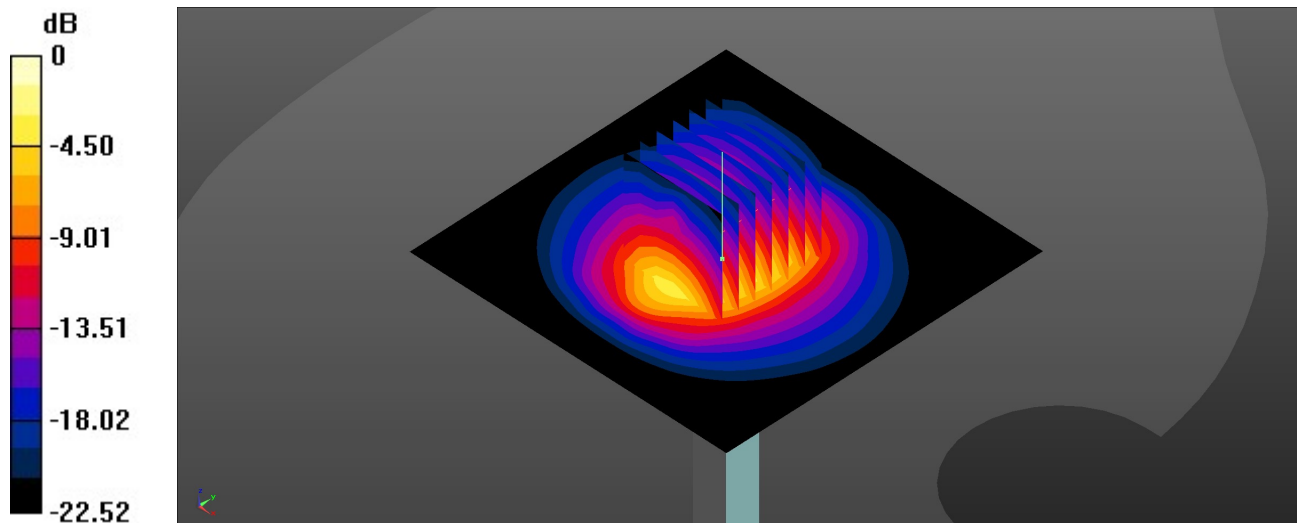
Ambient Temperature : 23.2 °C; Liquid Temperature : 22.6 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7706; ConvF(8.02, 8.02, 8.02); Calibrated: 2022/1/20
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1279; Calibrated: 2021/9/21
- 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) = 4.15 W/kg

Pin=50mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5$ mm, $dy=5$ mm, $dz=5$ mm
Reference Value = 47.19 V/m; Power Drift = 0.09 dB
Peak SAR (extrapolated) = 5.10 W/kg
SAR(1 g) = 2.64 W/kg; SAR(10 g) = 1.17 W/kg
Maximum value of SAR (measured) = 4.14 W/kg



0 dB = 4.14 W/kg = 6.17 dBW/kg

System Check_Head_3500MHz

DUT: D3500V2 - SN:1037

Communication System: UID 0, CW (0); Frequency: 3500 MHz; Duty Cycle: 1:1

Medium: HSL_3500 Medium parameters used: $f = 3500$ MHz; $\sigma = 2.809$ S/m; $\epsilon_r = 38.996$; $\rho = 1000$ kg/m³

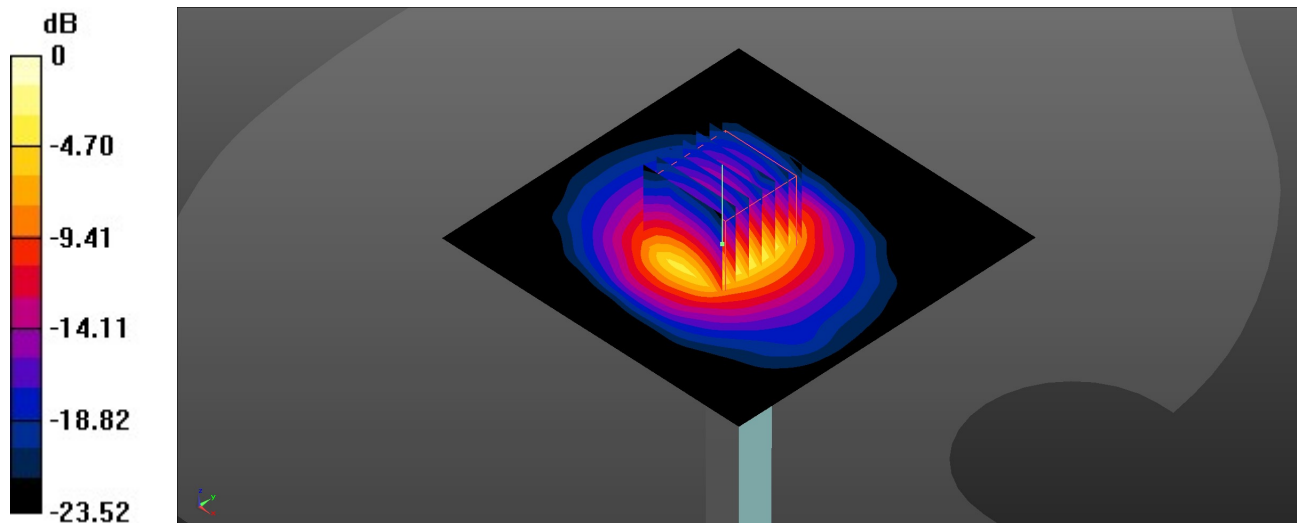
Ambient Temperature : 23.3 °C; Liquid Temperature : 22.6 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7706; ConvF(7.55, 7.55, 7.55); Calibrated: 2022/1/20
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1279; Calibrated: 2021/9/21
- 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) = 5.09 W/kg

Pin=50mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 34.66 V/m; Power Drift = 0.06 dB
Peak SAR (extrapolated) = 7.80 W/kg
SAR(1 g) = 3.18 W/kg; SAR(10 g) = 1.21 W/kg
Maximum value of SAR (measured) = 5.87 W/kg



0 dB = 5.87 W/kg = 7.69 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; $\sigma = 4.565$ S/m; $\epsilon_r = 35.993$; $\rho = 1000$ kg/m³

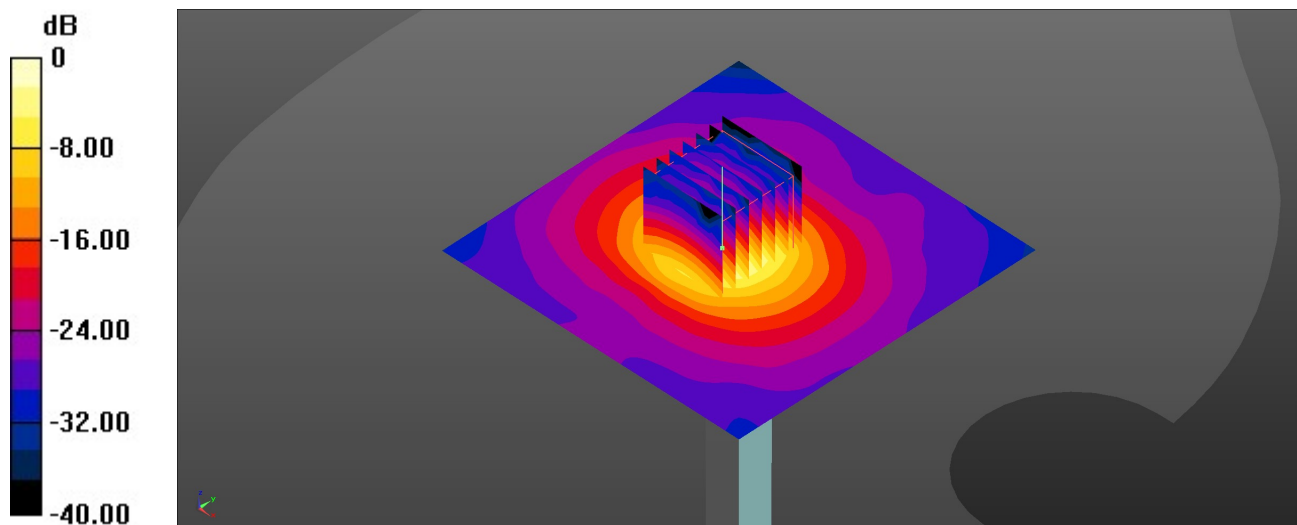
Ambient Temperature : 23.2 °C; Liquid Temperature : 22.9 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7706; ConvF(6.07, 6.07, 6.07); Calibrated: 2022/1/20
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1279; Calibrated: 2021/9/21
- 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) = 7.79 W/kg

Pin=50mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 43.58 V/m; Power Drift = 0.08 dB
Peak SAR (extrapolated) = 12.8 W/kg
SAR(1 g) = 3.75 W/kg; SAR(10 g) = 1.09 W/kg
Maximum value of SAR (measured) = 8.14 W/kg



0 dB = 8.14 W/kg = 9.11 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; $\sigma = 4.96$ S/m; $\epsilon_r = 35.424$; $\rho = 1000$ kg/m³

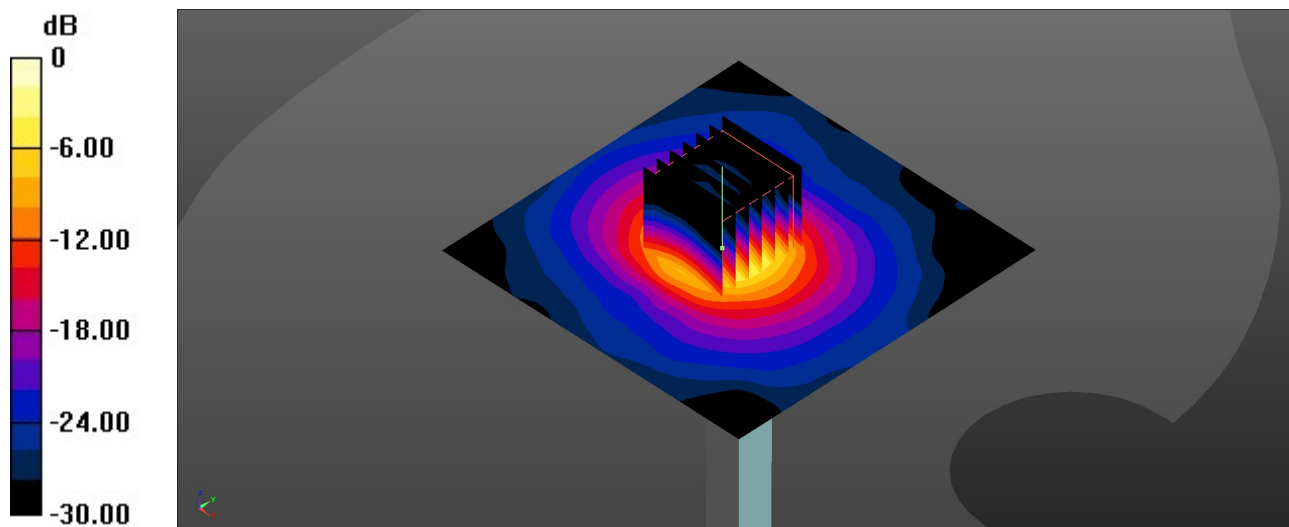
Ambient Temperature : 23.2 °C; Liquid Temperature : 22.9 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7706; ConvF(5.3, 5.3, 5.3); Calibrated: 2022/1/20
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1279; Calibrated: 2021/9/21
- 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) = 8.69 W/kg

Pin=50mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 44.01 V/m; Power Drift = 0.03 dB
Peak SAR (extrapolated) = 15.4 W/kg
SAR(1 g) = 3.94 W/kg; SAR(10 g) = 1.12 W/kg
Maximum value of SAR (measured) = 9.18 W/kg



0 dB = 9.18 W/kg = 9.63 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; $\epsilon_r = 35.268$; $\rho = 1000$ kg/m³

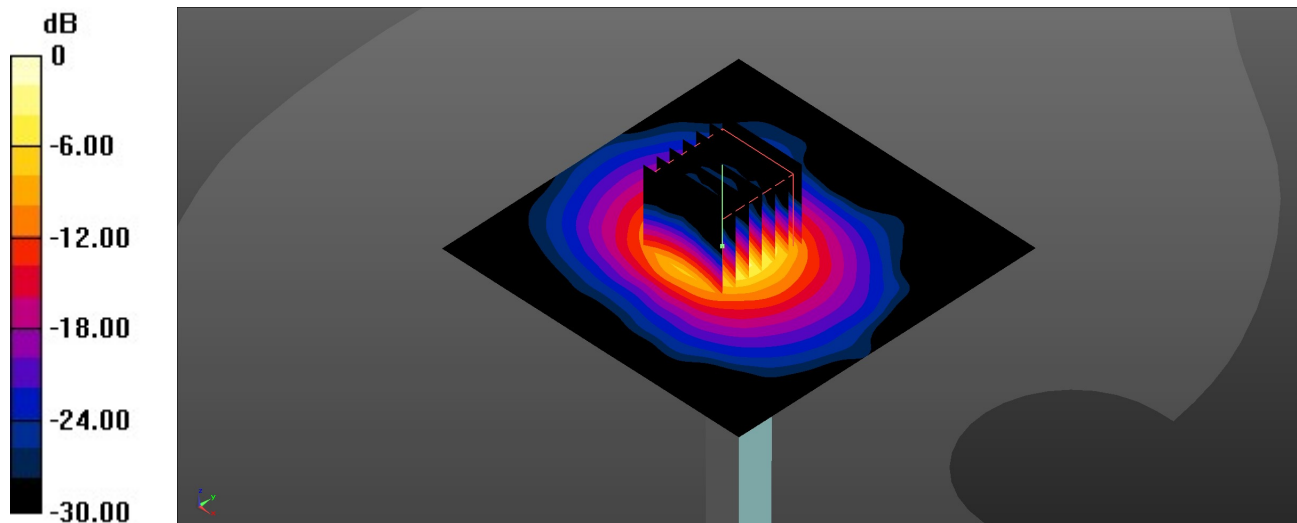
Ambient Temperature : 23.2 °C; Liquid Temperature : 22.9 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7706; ConvF(5.49, 5.49, 5.49); Calibrated: 2022/1/20
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1279; Calibrated: 2021/9/21
- 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) = 8.05 W/kg

Pin=50mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm
Reference Value = 41.90 V/m; Power Drift = 0.09 dB
Peak SAR (extrapolated) = 14.9 W/kg
SAR(1 g) = 3.76 W/kg; SAR(10 g) = 1.07 W/kg
Maximum value of SAR (measured) = 8.62 W/kg



0 dB = 8.62 W/kg = 9.36 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: $f = 750 \text{ MHz}$; $\sigma = 0.915 \text{ S/m}$; $\epsilon_r = 41.808$; $\rho = 1000 \text{ kg/m}^3$

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

DASY5 Configuration:

- Probe: EX3DV4 - SN7706; ConvF(10.86, 10.86, 10.86); Calibrated: 2022/1/20
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1279; Calibrated: 2021/9/21
- 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) = 0.564 W/kg

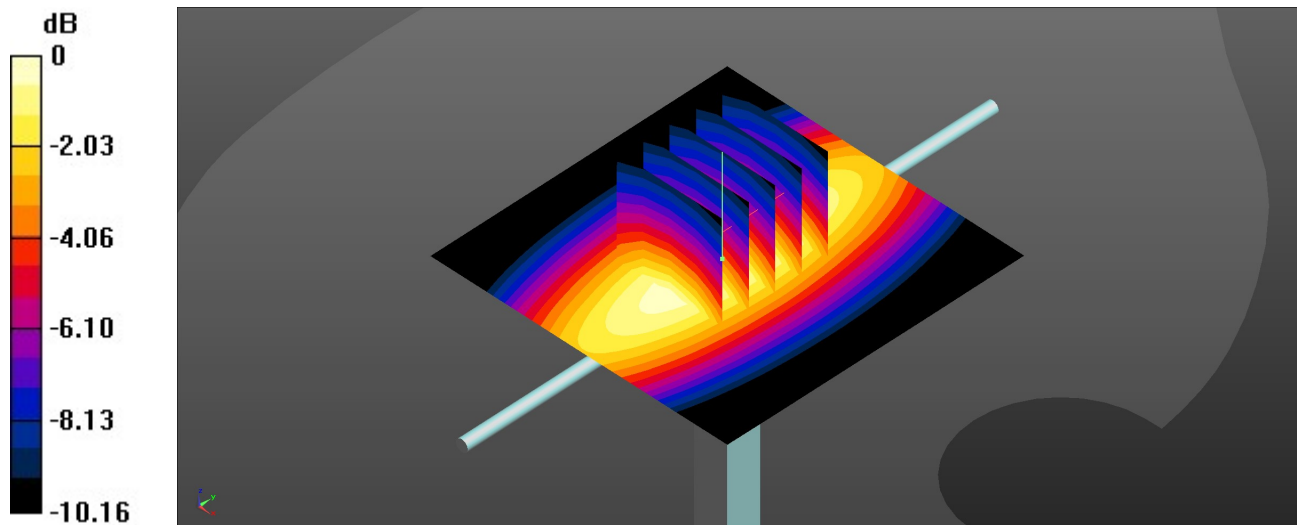
Pin=50mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 25.74 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 0.637 W/kg

SAR(1 g) = 0.423 W/kg; SAR(10 g) = 0.281 W/kg

Maximum value of SAR (measured) = 0.564 W/kg



0 dB = 0.564 W/kg = -2.49 dBW/kg

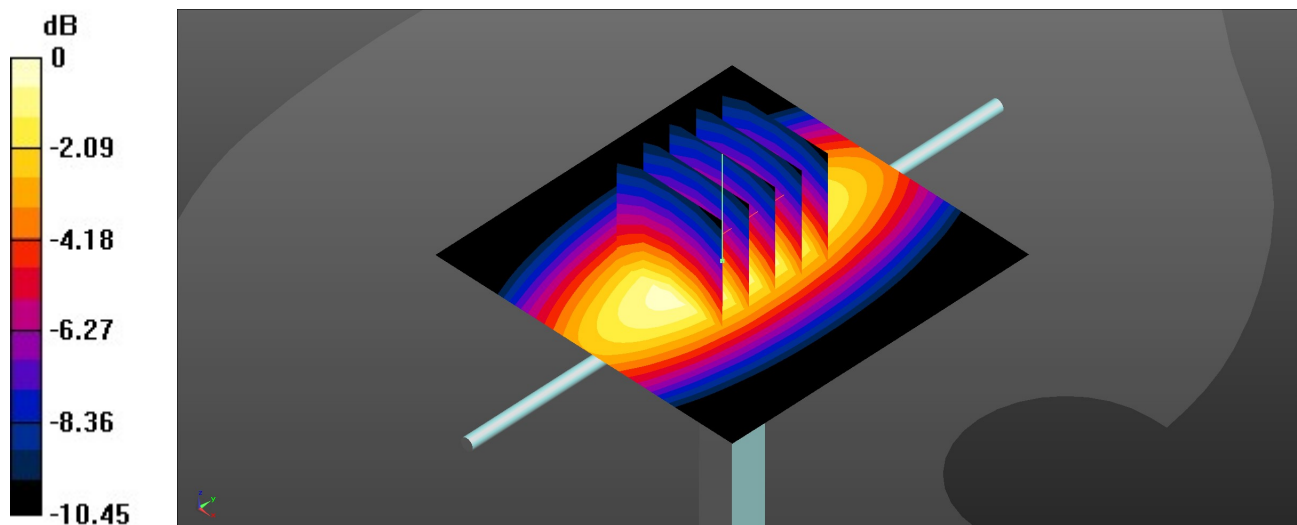
System Check_Head_835MHz**DUT: D835V2 - SN:4d258**

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

Medium: HSL_835 Medium parameters used: $f = 835 \text{ MHz}$; $\sigma = 0.93 \text{ S/m}$; $\epsilon_r = 41.365$; $\rho = 1000 \text{ kg/m}^3$ Ambient Temperature : $23.3 \text{ }^\circ\text{C}$; Liquid Temperature : $22.8 \text{ }^\circ\text{C}$

DASY5 Configuration:

- Probe: EX3DV4 - SN7706; ConvF(10.57, 10.57, 10.57); Calibrated: 2022/1/20
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1279; Calibrated: 2021/9/21
- 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) = 0.685 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 = 28.19 V/m ; Power Drift = -0.04 dB Peak SAR (extrapolated) = 0.766 W/kg **SAR(1 g) = 0.501 W/kg ; SAR(10 g) = 0.327 W/kg** Maximum value of SAR (measured) = 0.679 W/kg  $0 \text{ dB} = 0.679 \text{ W/kg} = -1.68 \text{ dBW/kg}$

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; $\sigma = 1.41$ S/m; $\epsilon_r = 40.672$; $\rho = 1000$ kg/m³

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

DASY5 Configuration:

- Probe: EX3DV4 - SN7706; ConvF(9.22, 9.22, 9.22); Calibrated: 2022/1/20
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1279; Calibrated: 2021/9/21
- Phantom: SAM Twin Phantom; Type: SAM Twin; Serial: TP-2022
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7483)

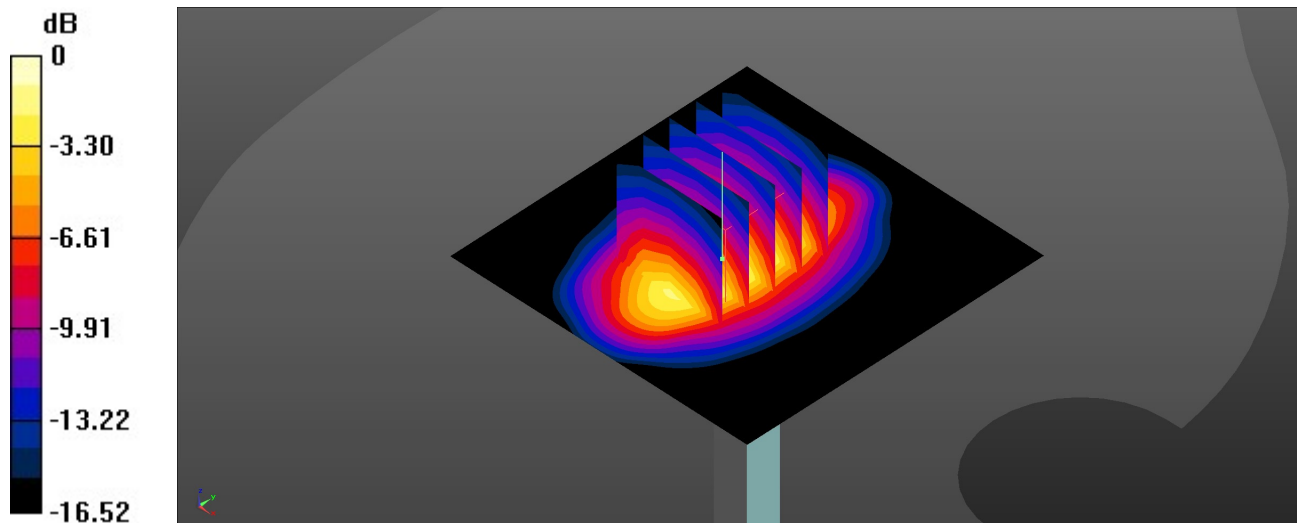
Pin=50mW/Area Scan (61x61x1): Interpolated grid: dx=1.500 mm, dy=1.500 mm
Maximum value of SAR (interpolated) = 2.95 W/kg**Pin=50mW/Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 45.17 V/m; Power Drift = 0.02 dB

Peak SAR (extrapolated) = 3.47 W/kg

SAR(1 g) = 1.94 W/kg; SAR(10 g) = 1.02 W/kg

Maximum value of SAR (measured) = 2.95 W/kg



0 dB = 2.95 W/kg = 4.70 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; $\sigma = 1.424$ S/m; $\epsilon_r = 39.376$; $\rho = 1000$ kg/m³

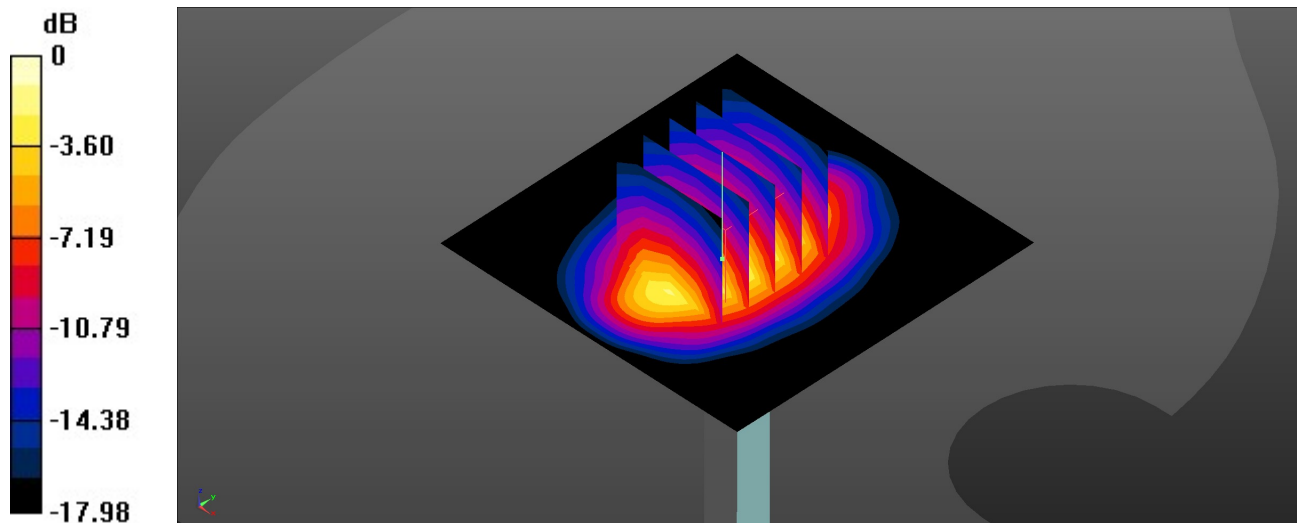
Ambient Temperature : 23.1 °C; Liquid Temperature : 22.9 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN7706; ConvF(8.8, 8.8, 8.8); Calibrated: 2022/1/20
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1279; Calibrated: 2021/9/21
- 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) = 3.19 W/kg

Pin=50mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 47.02 V/m; Power Drift = -0.16 dB
Peak SAR (extrapolated) = 3.76 W/kg
SAR(1 g) = 2.02 W/kg; SAR(10 g) = 1.05 W/kg
Maximum value of SAR (measured) = 3.14 W/kg



0 dB = 3.14 W/kg = 4.97 dBW/kg

System Check_Head_2450MHz**DUT: D2450V2 - SN:924**

Communication System: UID 0, CW (0); Frequency: 2450 MHz; Duty Cycle: 1:1

Medium: HSL_2450 Medium parameters used: $f = 2450$ MHz; $\sigma = 1.767$ S/m; $\epsilon_r = 39.377$; $\rho = 1000$ kg/m³

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

DASY5 Configuration:

- Probe: EX3DV4 - SN7706; ConvF(8.29, 8.29, 8.29); Calibrated: 2022/1/20
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1279; Calibrated: 2021/9/21
- 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) = 3.90 W/kg

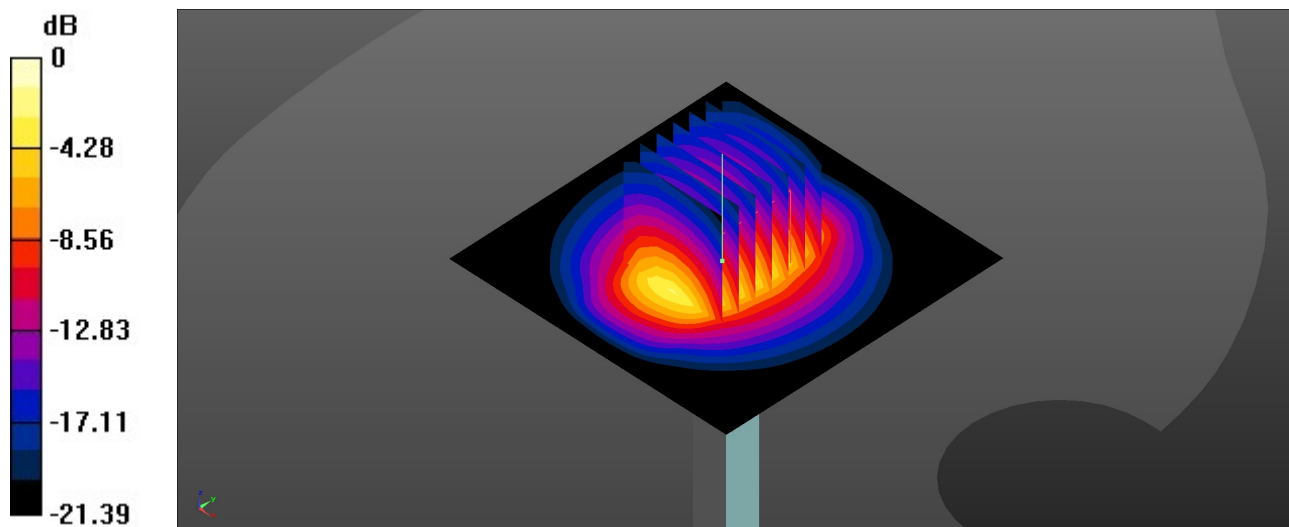
Pin=50mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 48.69 V/m; Power Drift = -0.06 dB

Peak SAR (extrapolated) = 4.73 W/kg

SAR(1 g) = 2.46 W/kg; SAR(10 g) = 1.14 W/kg

Maximum value of SAR (measured) = 3.89 W/kg



0 dB = 3.89 W/kg = 5.90 dBW/kg