

Head SAR Test																								
System & Position							DUT & Accessory		Power		SAR		Auto-tune is turned on		Auto-tune turned off		Auto-tune turned off		Auto-tune is turned back on					
Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Mode	Test Position	Gap (mm)	Antenna	Power State	Ch.	Freq. (MHz)	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)	State	Single point 1g SAR (W/kg)	State	Single point 1g SAR (W/kg)	State	Single point 1g SAR (W/kg)	State	Single point 1g SAR (W/kg)	
	LTE Band 12	10M	QPSK	1	0		Left Cheek	0mm	Ant 0	DSI 2		23095	707.5	0.1	0.118	0.175	17	0.164	16	0.073	18	0.078	17	0.148
	LTE Band 12	10M	QPSK	1	0		Right Cheek	0mm	Ant 1	DSI 2		23095	707.5	-0.03	0.717	0.950	4	1.180	3	1.100	5	1.160	4	1.180
	LTE Band 13	10M	QPSK	1	0		Left Cheek	0mm	Ant 0	DSI 2		23230	782	0.12	0.150	0.225	57	0.185	56	0.098	58	0.106	57	0.184
	LTE Band 26	15M	QPSK	1	0		Left Cheek	0mm	Ant 0	DSI 2		26865	831.5	-0.03	0.212	0.311	45	0.264	44	0.259	46	0.262	45	0.275
	LTE Band 26	15M	QPSK	1	0		Right Cheek	0mm	Ant 1	DSI 2		26865	831.5	-0.09	1.030	1.285	25	1.560	24	1.310	26	0.122	25	1.480
	LTE Band 25	20M	QPSK	1	0		Right Cheek	0mm	Ant 1	DSI 2		26590	1905	0.1	1.060	1.280	14	1.450	13	1.420	15	1.330	14	1.310
	LTE Band 66	20M	QPSK	1	0		Right Cheek	0mm	Ant 1	DSI 2		132072	1720	0.03	0.970	1.279	1	1.350	0	1.330	2	1.180	1	1.320
	LTE Band 7	20M	QPSK	1	0		Right Cheek	0mm	Ant 1	DSI 2		21350	2660	0.01	1.070	1.269	130	1.170	129	0.703	131	1.150	130	1.040
	LTE Band 41_HPLUE	20M	QPSK	1	0		Right Cheek	0mm	Ant 1	DSI 2		41055	2636.5	0.01	1.070	1.529	1	1.170	0	1.130	2	1.110	1	1.160
	FR1 n26	20M	BPSK	30	26		Left Cheek	0mm	Ant 0	DSI 2		166300	831.5	0.1	0.176	0.253	45	0.216	44	0.213	46	0.211	45	0.218
	FR1 n25	20M	BPSK	1	1		Right Cheek	0mm	Ant 1	DSI 2		166300	831.5	-0.01	0.778	1.059	77	1.150	76	1.090	78	0.001	77	1.130
	FR1 n7	40M	BPSK	108	54		Right Cheek	0mm	Ant 1	DSI 2		507000	2535	0.04	1.090	1.278	1	1.190	0	0.863	2	1.140	1	1.100
	FR1 n2	40M	BPSK	108	54		Right Cheek	0mm	Ant 1	DSI2		376000	1880	0.02	0.982	1.232	33	1.34	32	1.13	34	1.18	33	1.27
	FR1 n65	40M	BPSK	1	1		Right Cheek	0mm	Ant 1	DSI 2		349000	1745	-0.02	1.090	1.284	1	1.160	0	1.060	2	0.968	1	1.160
	FR1 n70	15M	BPSK	36	22		Right Cheek	0mm	Ant 1	DSI 2		340500	1702.5	-0.02	1.020	1.284	1	1.140	0	0.826	2	1.040	1	1.130
	FR1 n71	35M	BPSK	90	45		Left Cheek	0mm	Ant 0	DSI 2		136100	680.5	0.05	0.987	0.119	70	0.109	69	0.083	71	0.103	70	0.107
	FR1 n71	35M	BPSK	1	1		Right Cheek	0mm	Ant 1	DSI 2		136100	680.5	0.11	0.492	0.871	57	0.642	56	0.320	58	0.637	57	0.594
	FR1 n41_HPLUE	100M	BPSK	135	69		Right Cheek	0mm	Ant 1	DSI 2		518598	2592.99	0.06	1.020	1.209	1	1.130	0	1.010	2	1.120	1	1.120
Body-worn/Hotspot SAR Test																								
System & Position							DUT & Accessory		Power		SAR		Auto-tune is turned on		Auto-tune turned off		Auto-tune turned off		Auto-tune is turned back on					
Plot No.	Band	BW (MHz)	Modulation	RB Size	RB offset	Mode	Test Position	Gap (mm)	Antenna	Power State	Ch.	Freq. (MHz)	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)	State	Single point 1g SAR (W/kg)	State	Single point 1g SAR (W/kg)	State	Single point 1g SAR (W/kg)	State	Single point 1g SAR (W/kg)	
	LTE Band 7	20M	QPSK	1	0		Back	5mm	Ant 1	DSI 3		21100	2535	0.03	0.997	1.295	130	1.360	129	0.940	131	1.330	130	1.330
	LTE Band 25	20M	QPSK	1	0		Back	5mm	Ant 1	DSI 3		26140	1860	-0.06	1.070	1.293	26	1.330	25	0.589	27	1.310	26	1.310
	LTE Band 26	15M	QPSK	1	0		Back	5mm	Ant 0	DSI 3		26865	831.5	-0.01	0.967	1.296	46	1.030	45	0.965	47	1.010	46	0.930
	LTE Band 26	15M	QPSK	1	0		Back	5mm	Ant 1	DSI 3		26865	831.5	0.03	1.030	1.284	25	1.130	24	0.944	26	0.082	25	1.100
	LTE Band 12	10M	QPSK	1	0		Left Side	5mm	Ant 0	DSI 7		23095	707.5	-0.01	0.788	1.107	21	0.794	20	0.437	22	0.257	21	0.836
	LTE Band 12	10M	QPSK	1	0		Back	5mm	Ant 1	DSI 3		23095	707.5	-0.08	0.775	1.031	4	0.788	3	0.555	5	0.720	4	0.831
	LTE Band 13	10M	QPSK	1	0		Back	5mm	Ant 0	DSI 3		23230	782	-0.01	0.770	1.157	74	0.928	73	0.121	75	0.122	74	0.746
	LTE Band 66	20M	QPSK	1	0		Back	5mm	Ant 1	DSI 3		132072	1720	0.03	0.989	1.277	1	1.280	0	1.060	2	1.010	1	1.270
	LTE Band 41_HPLUE	20M	QPSK	1	0		Back	5mm	Ant 1	DSI 3		40620	2593	-0.04	1.010	1.220	130	1.140	129	0.766	131	1.100	130	1.110
	FR1 n25	20M	BPSK	30	26		Back	5mm	Ant 5	DSI 3		166300	831.5	-0.12	0.828	1.188	45	0.812	44	0.802	46	0.828	45	0.802
	FR1 n26	20M	BPSK	1	1		Back	5mm	Ant 1	DSI 3		166300	831.5	0.03	0.822	1.119	77	0.978	76	0.871	78	0.001	77	0.913
	FR1 n71	35M	BPSK	90	45		Back	5mm	Ant 0	DSI 3		136100	680.5	-0.06	0.516	0.706	70	0.635	69	0.436	71	0.588	70	0.582
	FR1 n71	35M	BPSK	1	1		Back	5mm	Ant 1	DSI 3		136100	680.5	-0.07	0.304	0.416	57	0.457	56	0.422	58	0.387	57	0.416
	FR1 n7	40M	BPSK	108	54		Back	5mm	Ant 1	DSI 3		507000	2535	-0.02	0.939	1.293	1	1.170	0	0.848	2	0.981	1	1.110
	FR1 n2	40M	BPSK	108	54		Back	5mm	Ant 1	DSI3		376000	1880	-0.06	0.913	1.242	33	1.320	32	1.280	34	1.210	33	1.310
	FR1 n65	40M	BPSK	1	1		Back	5mm	Ant 1	DSI 3		349000	1745	-0.05	0.985	1.281	1	1.070	2	1.300	2	1.310	1	1.050
	FR1 n70	15M	BPSK	36	22		Back	5mm	Ant 1	DSI 3		340500	1702.5	-0.03	1.080	1.272	1	1.070	0	1.210	2	1.540	1	1.540
	FR1 n41_HPLUE	100M	BPSK	135	69		Left Side	5mm	Ant 1	DSI 7		518598	2592.99	0.04	1.050	1.254	1	1.330	0	0.941	2	1.310	1	1.320

Ant 1																																							
Mode	Service/Modulation	Channel	Frequency (MHz)	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Auto-Tune state 25																														
Average Value of Time Sweep (W/kg)																																							
								0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19												
LTE Band 26	QPSK	26865	831.5	1	0	Right Cheek	0mm	1.03	1.56	0.001	0.084	0.165	0.232	0.301	0.345	0.383	0.436	0.479	0.527	0.565	0.59	0.758	0.185	0.304	0.516	0.72	0.821	0.943	1.01										
										20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39										
										1.08	1.19	1.19	1.25	1.26	1.45	0.116	0.2	0.334	0.46	0.566	0.623	0.696	0.747	0.863	0.897	0.964	1.01	1.12	0.001										
										40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59										
										0.001	0.001	0.073	0.121	0.164	0.221	0.281	0.387	0.511	0.672	0.754	1.23	0.001	0.001	0.065	0.121	0.189	0.26	0.35	0.427										
										60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79										
										0.604	0.731	0.881	1	1.27	0.216	0.355	0.651	0.889	1.01	1.14	1.2	1.25	1.32	1.36	1.36	1.37	1.34	0.001	0.001										
										80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99										
										0.119	0.218	0.308	0.384	0.457	0.505	0.595	0.648	0.705	0.629	0.735	0.001	0.071	0.186	0.329	0.464	0.522	0.67	0.782	0.856										
										100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119										
										0.909	0.983	0.999	0.995	0.001	0.001	0.078	0.136	0.264	0.347	0.403	0.535	0.61	0.708	0.778	0.973	0.001	0.001	0.118											
										120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139										
										0.217	0.319	0.413	0.516	0.607	0.755	0.878	0.991	1.04	1.26	0.001	0.001	0.001	0.001	0.001	0.001	0.066	0.081	0.117	0.147										
										140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159										
										0.205	0.232	0.749	0.001	0.001	0.164	0.346	0.522	0.668	0.741	0.77	0.758	0.744	0.701	0.669	0.483	0.001	0.061	0.233	0.489										
										160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179										
										0.725	0.899	0.966	0.996	1.05	1.01	0.929	0.908	0.663	0.001	0.001	0.001	0.055	0.088	0.119	0.145	0.169	0.214	0.248	0.281										
										180	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199										
										0.293	0.369	0.001	0.001	0.001	0.001	0.057	0.075	0.099	0.121	0.172	0.201	0.248	0.277	0.485	0.001	0.001	0.001	0.074	0.133										
										200	201	202	203	204	205	206	207																						
										0.204	0.256	0.306	0.33	0.351	0.356	0.346	0.258																						
										Average Value of Time Sweep (W/kg)																													
																		0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19		
										LTE Band 25	QPSK	26590	1905	1	0	Right Cheek	0mm	1.06	1.45	0.504	0.601	0.72	0.774	0.809	0.826	0.842	0.861	0.865	0.889	0.893	0.922	1.36	1.44	1.28	1.15	1.08	1.06	1.03	
																				20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39
1	0.983	0.949	0.927	0.903	0.86	0.81	1.013	0.987	1.09											1.04	1.04	1.01	0.991	0.98	0.979	0.998	0.955	0.912	0.45										
40	41	42	43	44	45	46	47	48	49											50	51	52	53	54	55	56	57	58	59										
0.543	0.657	0.698	0.72	0.749	0.753	0.766	0.774	0.771	0.791											0.797	0.801	0.829	0.599	0.705	0.764	0.794	0.812	0.848											
60	61	62	63	64	65	66	67	68	69											70	71	72	73	74	75	76	77	78	79										
0.854	0.869	0.887	0.879	0.915	0.789	1.11	1.2	1.29	1											0.981	0.947	0.919	0.88	0.863	0.827	0.814	0.731	1.3	1.13										
80	81	82	83	84	85	86	87	88	89											90	91	92	93	94	95	96	97	98	99										
0.838	0.622	0.663	0.641	0.613	0.591	0.576	0.568	0.56	0.547											0.514	1.26	1.18	0.948	0.822	0.74	0.727	0.704	0.697	0.669										
100	101	102	103	104	105	106	107	108	109											110	111	112	113	114	115	116	117	118	119										
0.655	0.64	0.647	0.586	0.723	0.761	0.717	0.693	0.669	0.651											0.645	0.614	0.619	0.618	0.617	0.615	0.59	0.861	0.861	0.813										
120	121	122	123	124	125	126	127	128	129											130	131	132	133	134	135	136	137	138	139										
0.795	0.788	0.779	0.749	0.763	0.746	0.749	0.737	0.73	0.715											0.238	0.289	0.345	0.38	0.398	0.413	0.415	0.418	0.445	0.448										
140	141	142	143	144	145	146	147	148	149											150	151	152	153	154	155	156	157	158	159										
0.448	0.457	0.478	1.07	1.18	0.627	0.632	0.549	0.516	0.49											0.439	0.433	0.462	0.415	0.403	0.392	0.24	0.18	0.955	0.771										
160	161	162	163	164	165	166	167	168	169											170	171	172	173	174	175	176	177	178	179										
0.676	0.641	0.605	0.583	0.569	0.543	0.521	0.512	0.454	0.871											0.725	0.467	0.424	0.387	0.376	0.358	0.346	0.341	0.329	0.323										
180	181	182	183	184	185	186	187	188	189											190	191	192	193	194	195	196	197	198	199										
0.321	0.296	0.473	0.463	0.441	0.417	0.4	0.396	0.397	0.387											0.396	0.388	0.389	0.383	0.374	0.768	1.14	0.644	0.461	0.381										
200	201	202	203	204	205	206	207																																
0.353	0.329	0.314	0.297	0.283	0.274	0.264	0.234																																
Average Value of Time Sweep (W/kg)																																							
								0	1											2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19		
FR1 n0	BPSK	340500	1745	1	1	Back	5mm	0.985	1.57											1.3	1.69	1.31	1.03	0.899	0.839	0.787	0.747	0.717	0.686	0.658	0.641	0.553	0.151	0.302	0.626	0.723	0.705	0.693	0.662
																				20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39
										0.631	0.588	0.542	0.531	0.508	0.406	0.309	0.27	0.218	0.19	0.15	0.989	0.903	0.846	0.781	0.711	0.687	0.646	0.615	0.596	0.478	1.66								
										40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59										
										1.36	0.824	0.624	0.544	0.513	0.476	0.453	0.436	0.419	0.403	0.396	0.349	0.157	1.53	0.988	0.757	0.659	0.62	0.583	0.56										
										60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79										
										0.556	0.519	0.497	0.485	0.436	0.257	0.14	0.297	0.455	0.47	0.457	0.447	0.404	0.425	0.404	0.403	0.37	0.32	0.55											
										80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99										
										0.728	0.551	0.436	0.389	0.347	0.318	0.299	0.279	0.259	0.25	0.209	0.185	0.437	0.739	0.645	0.534	0.484	0.439	0.416	0.394										
										100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119										
										0.365	0.346	0.333	0.272	0.497	1.01	0.75	0.606	0.484	0.403	0.374	0.356	0.333	0.314	0.303	0.257	0.397	0.843	0.954											
										120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139										
										0.723	0.6	0.557	0.504	0.474	0.45	0.419	0.388	0.324	1.5	1.04	0.517	0.373	0.318	0.298	0.277	0.263	0.256	0.244	0.234										
										140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159										
										0.229	0.203	0.093	0.239	0.484	0.434	0.345	0.314	0.282	0.259	0.229	0.202	0.184	0.151	0.396	0.076	0.183	0.406	0.449											
										160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179										
										0.409	0.38	0.351	0.324	0.299	0.28	0.262	0.252	0.2	0.131	0.509	0.86	0.464	0.327	0.285	0.246	0.2													