



Configure	CA Configuration	PCC							SCC1				SCC2				Power	
		LTE Band	BW (MHz)	UL Freq. (MHz)	UL Channel	Mod.	UL# RB	UL RB Offset	LTE Band	BW (MHz)	DL Freq. (MHz)	DL Channel	LTE Band	BW (MHz)	DL Freq. (MHz)	DL Channel	With CA Tx. Power (dBm)	Without CA Tx. Power (dBm)
Inter-Band	CA_2A-2A-4A	Band 2	20M	1900	19100	QPSK	1	0	Band 2	5M	1932.5	625	Band 4	20M	2132.5	2175	23.62	23.87
		Band 2 (4*4MIMO)	20M	1900	19100	QPSK	1	0	Band 2	5M	1932.5	625	Band 4	20M	2132.5	2175	23.65	23.87
		Band 4	20M	1732.5	20175	QPSK	1	0	Band 2	20M	1960	900	Band 2	5M	1987.5	1175	23.63	24.07
		Band 4 (4*4MIMO)	20M	1732.5	20175	QPSK	1	0	Band 2	20M	1960	900	Band 2	5M	1987.5	1175	23.7	24.07
	CA_2A-4A-4A	Band 2	20M	1900	19100	QPSK	1	0	Band 4	20M	2132.5	2175	Band 4	5M	2152.5	2375	23.59	23.87
		Band 2 (4*4MIMO)	20M	1900	19100	QPSK	1	0	Band 4	20M	2132.5	2175	Band 4	5M	2152.5	2375	23.63	23.87
		Band 4	20M	1732.5	20175	QPSK	1	0	Band 4	5M	2152.5	2375	Band 2	20M	1960	900	23.58	24.07
		Band 4 (4*4MIMO)	20M	1732.5	20175	QPSK	1	0	Band 4	5M	2152.5	2375	Band 2	20M	1960	900	23.63	24.07
	CA_2A-2A-5A	Band 2	20M	1900	19100	QPSK	1	0	Band 2	5M	1932.5	625	Band 5	10M	881.5	2525	23.6	23.87
		Band 2 (4*4MIMO)	20M	1900	19100	QPSK	1	0	Band 2	5M	1932.5	625	Band 5	10M	881.5	2525	23.65	23.87
		Band 5	10M	836.5	20525	QPSK	1	0	Band 2	20M	1960	900	Band 2	5M	1987.5	1175	23.9	24.11
	CA_2A-7A-7A	Band 2	20M	1900	19100	QPSK	1	0	Band 7	20M	2655	3100	Band 7	5M	2687.5	3425	23.61	23.87
		Band 7	20M	2560	21350	QPSK	1	0	Band 7	5M	2622.5	2775	Band 2	20M	1960	900	23.35	23.69
	CA_2A-46C	Band 2	20M	1900	19100	QPSK	1	0	Band 46	20M	5540.2	50692	Band 46	20M	5560	50890	23.74	23.87
		Band 2 (4*4MIMO)	20M	1900	19100	QPSK	1	0	Band 46	20M	5540.2	50692	Band 46	20M	5560	50890	23.81	23.87
	CA_2C-66A	Band 2	20M	1900	19100	QPSK	1	0	Band 2	20M	1960.2	902	Band 66	20M	2155	66886	23.68	23.87
		Band 2 (4*4MIMO)	20M	1900	19100	QPSK	1	0	Band 66	20M	2155	66886	Band 66	20M	2174.8	67084	23.63	23.87
		Band 66	20M	1745	132322	QPSK	1	0	Band 2	20M	1960	900	Band 2	20M	1979.8	1098	24.05	24.14
		Band 66 (4*4MIMO)	20M	1745	132322	QPSK	1	0	Band 66	20M	2174.8	67084	Band 2	20M	1960	900	24.12	24.14
	CA_2A-2A-13A	Band 2	20M	1900	19100	QPSK	1	0	Band 2	5M	1932.5	625	Band 13	10M	751	5230	23.72	23.87
		Band 2 (4*4MIMO)	20M	1900	19100	QPSK	1	0	Band 2	5M	1932.5	625	Band 13	10M	751	5230	23.84	23.87
		Band 13	10M	782	23230	QPSK	1	49	Band 2	20M	1960	900	Band 2	5M	1987.5	1175	23.85	23.99
	CA_2A-2A-12A	Band 2	20M	1900	19100	QPSK	1	0	Band 2	5M	1932.5	625	Band 12	10M	737.5	5095	23.64	23.87
		Band 2 (4*4MIMO)	20M	1900	19100	QPSK	1	0	Band 2	5M	1932.5	625	Band 12	10M	737.5	5095	23.70	23.87
		Band 12	10M	707.5	23095	QPSK	1	0	Band 2	20M	1960	900	Band 2	5M	1987.5	1175	23.77	23.95
	CA_2A-66C	Band 2	20M	1900	19100	QPSK	1	0	Band 66	20M	2155	66886	Band 66	20M	2174.8	67084	23.63	23.87
		Band 2 (4*4MIMO)	20M	1900	19100	QPSK	1	0	Band 66	20M	2155	66886	Band 66	20M	2174.8	67084	23.63	23.87
		Band 66	20M	1745	132322	QPSK	1	0	Band 66	20M	2174.8	67084	Band 2	20M	1960	900	24.12	24.14
		Band 66 (4*4MIMO)	20M	1745	132322	QPSK	1	0	Band 66	20M	2174.8	67084	Band 2	20M	1960	900	24.11	24.14
	CA_2A-2A-66A	Band 2	20M	1900	19100	QPSK	1	0	Band 2	5M	1932.5	625	Band 66	20M	2155	66886	23.63	23.87
		Band 2 (4*4MIMO)	20M	1900	19100	QPSK	1	0	Band 2	5M	1932.5	625	Band 66	20M	2155	66886	23.71	23.87
		Band 66	20M	1745	132322	QPSK	1	0	Band 2	20M	1960	900	Band 2	5M	1987.5	1175	24.11	24.14
		Band 66 (4*4MIMO)	20M	1745	132322	QPSK	1	0	Band 2	20M	1960	900	Band 2	5M	1987.5	1175	24.05	24.14
	CA_2A-2A-71A	Band 2	20M	1900	19100	QPSK	1	0	Band 2	5M	1932.5	625	Band 71	20M	637	68786	23.64	23.87
		Band 2 (4*4MIMO)	20M	1900	19100	QPSK	1	0	Band 2	5M	1932.5	625	Band 71	20M	637	68786	23.76	23.87
		Band 71	20M	683	133322	QPSK	1	0	Band 2	20M	1960	900	Band 2	5M	1987.5	1175	24.11	24.49
	CA_2A-66A-66A	Band 2	20M	1900	19100	QPSK	1	0	Band 66	20M	2155	66886	Band 66	5M	2197.5	67311	23.62	23.87
		Band 2 (4*4MIMO)	20M	1900	19100	QPSK	1	0	Band 66	20M	2155	66886	Band 66	5M	2197.5	67311	23.69	23.87
		Band 66	20M	1745	132322	QPSK	1	0	Band 66	5M	2197.5	67311	Band 2	20M	1960	900	23.81	24.14
		Band 66 (4*4MIMO)	20M	1745	132322	QPSK	1	0	Band 66	5M	2197.5	67311	Band 2	20M	1960	900	23.88	24.14
	CA_4A-4A-5A	Band 4	20M	1732.5	20175	QPSK	1	0	Band 4	5M	2152.5	2375	Band 5	10M	881.5	2525	23.58	24.07
		Band 4 (4*4MIMO)	20M	1732.5	20175	QPSK	1	0	Band 4	5M	2152.5	2375	Band 5	10M	881.5	2525	23.63	24.07
		Band 5	10M	836.5	20525	QPSK	1	0	Band 4	20M	2132.5	2175	Band 4	5M	2152.5	2375	23.86	24.11
	CA_4A-4A-7A	Band 4	20M	1732.5	20175	QPSK	1	0	Band 4	5M	2152.5	2375	Band 7	20M	2655	3100	23.57	24.07
		Band 7	20M	2560	21350	QPSK	1	0	Band 4	20M	2132.5	2175	Band 4	5M	2152.5	2375	23.25	23.69
	CA_4A-7A-7A	Band 4	20M	1732.5	20175	QPSK	1	0	Band 7	20M	2655	3100	Band 7	5M	2687.5	3425	23.58	24.07



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Inter-Band		CA_4A-7A-7A	Band 4 (4*4MIMO)	20M	1732.5	20175	QPSK	1	0	Band 7	20M	2655	3100	Band 7	5M	2687.5	3425	23.56	24.07
			Band 7	20M	2560	21350	QPSK	1	0	Band 7	5M	2622.5	2775	Band 4	20M	2132.5	2175	23.37	23.69
		CA_4A-46C	Band 4	20M	1732.5	20175	QPSK	1	0	Band 46	20M	5540.2	50692	Band 46	20M	5560	50890	23.73	24.07
			Band 4 (4*4MIMO)	20M	1732.5	20175	QPSK	1	0	Band 46	20M	5540.2	50692	Band 46	20M	5560	50890	23.95	24.07
		CA_4A-4A-12A	Band 4	20M	1732.5	20175	QPSK	1	0	Band 4	5M	2152.5	2375	Band 12	10M	737.5	5095	23.57	24.07
			Band 4 (4*4MIMO)	20M	1732.5	20175	QPSK	1	0	Band 4	5M	2152.5	2375	Band 12	10M	737.5	5095	23.63	24.07
			Band 12	10M	707.5	23095	QPSK	1	0	Band 4	20M	2132.5	2175	Band 4	5M	2152.5	2375	22.79	23.95
		CA_4A-4A-71A	Band 4	20M	1732.5	20175	QPSK	1	0	Band 4	5M	2152.5	2375	Band 71	20M	637	68786	23.56	24.07
			Band 4 (4*4MIMO)	20M	1732.5	20175	QPSK	1	0	Band 4	5M	2152.5	2375	Band 71	20M	637	68786	23.63	24.07
			Band 71	20M	683	133322	QPSK	1	0	Band 4	20M	2132.5	2175	Band 4	5M	2152.5	2375	23.67	24.49
		CA_4A-4A-13A	Band 4	20M	1732.5	20175	QPSK	1	0	Band 4	5M	2152.5	2375	Band 13	10M	751	5230	23.56	24.07
			Band 4 (4*4MIMO)	20M	1732.5	20175	QPSK	1	0	Band 4	5M	2152.5	2375	Band 13	10M	751	5230	23.62	24.07
			Band 13	10M	782	23230	QPSK	1	49	Band 4	20M	2132.5	2175	Band 4	5M	2152.5	2375	23.69	23.99
		CA_4A-46A-46A	Band 4	20M	1732.5	20175	QPSK	1	0	Band 46	20M	5160	46890	Band 46	20M	5905	54340	23.54	24.07
			Band 4 (4*4MIMO)	20M	1732.5	20175	QPSK	1	0	Band 46	20M	5160	46890	Band 46	20M	5905	54340	23.84	24.07
		CA_2A-46A-46A	Band 2	20M	1900	19100	QPSK	1	0	Band 46	20M	5160	46890	Band 46	20M	5905	54340	23.61	23.87
			Band 2 (4*4MIMO)	20M	1900	19100	QPSK	1	0	Band 46	20M	5160	46890	Band 46	20M	5905	54340	23.81	23.87
		CA_66A-46A-46A	Band 66	20M	1745	132322	QPSK	1	0	Band 46	20M	5160	46890	Band 46	20M	5905	54340	23.85	24.14
			Band 66 (4*4MIMO)	20M	1745	132322	QPSK	1	0	Band 46	20M	5160	46890	Band 46	20M	5905	54340	23.92	24.14
		CA_5A-66A-66A	Band 5	10M	836.5	20525	QPSK	1	0	Band 66	20M	2155	66886	Band 66	5M	2197.5	67311	23.86	24.11
			Band 66	20M	1745	132322	QPSK	1	0	Band 66	5M	2197.5	67311	Band 5	10M	881.5	2525	23.8	24.14
			Band 66 (4*4MIMO)	20M	1745	132322	QPSK	1	0	Band 66	5M	2197.5	67311	Band 5	10M	881.5	2525	23.82	24.14
		CA_5A-66C	Band 5	10M	836.5	20525	QPSK	1	0	Band 66	20M	2155	66886	Band 66	20M	2174.8	67084	23.84	24.11
			Band 66	20M	1745	132322	QPSK	1	0	Band 66	20M	2174.8	67084	Band 5	10M	881.5	2525	23.81	24.14
			Band 66 (4*4MIMO)	20M	1745	132322	QPSK	1	0	Band 66	20M	2174.8	67084	Band 5	10M	881.5	2525	23.83	24.14
		CA_12A-66A-66A	Band 12	10M	707.5	23095	QPSK	1	0	Band 66	20M	2155	66886	Band 66	5M	2197.5	67311	22.79	23.95
			Band 66	20M	1745	132322	QPSK	1	0	Band 66	5M	2197.5	67311	Band 12	10M	737.5	5095	23.81	24.14
			Band 66 (4*4MIMO)	20M	1745	132322	QPSK	1	0	Band 66	5M	2197.5	67311	Band 12	10M	737.5	5095	23.86	24.14
		CA_12A-66C	Band 12	10M	707.5	23095	QPSK	1	0	Band 66	20M	2155	66886	Band 66	20M	2174.8	67084	22.8	23.95
			Band 66	20M	1745	132322	QPSK	1	0	Band 66	20M	2174.8	67084	Band 12	10M	737.5	5095	23.8	24.14
			Band 66 (4*4MIMO)	20M	1745	132322	QPSK	1	0	Band 66	5M	2197.5	67311	Band 12	10M	737.5	5095	23.86	24.14
		CA_13A-66A-66A	Band 13	10M	782	23230	QPSK	1	49	Band 66	20M	2155	66886	Band 66	5M	2197.5	67311	23.71	23.99
			Band 66	20M	1745	132322	QPSK	1	0	Band 66	5M	2197.5	67311	Band 13	10M	751	5230	23.83	24.14
			Band 66 (4*4MIMO)	20M	1745	132322	QPSK	1	0	Band 66	5M	2197.5	67311	Band 13	10M	751	5230	23.85	24.14
		CA_66A-66A-71A	Band 66	20M	1745	132322	QPSK	1	0	Band 66	5M	2197.5	67311	Band 71	20M	637	68786	23.81	24.14
			Band 66 (4*4MIMO)	20M	1745	132322	QPSK	1	0	Band 66	5M	2197.5	67311	Band 71	20M	637	68786	23.87	24.14
			Band 71	20M	683	133322	QPSK	1	0	Band 66	20M	2155	66886	Band 66	5M	2197.5	67311	23.64	24.49
		CA_66A-46C	Band 66	20M	1745	132322	QPSK	1	0	Band 46	20M	5540.2	50692	Band 46	20M	5560	50890	23.89	24.14
			Band 66 (4*4MIMO)	20M	1745	132322	QPSK	1	0	Band 46	20M	5540.2	50692	Band 46	20M	5560	50890	23.93	24.14
		CA_66C-71A	Band 66	20M	1745	132322	QPSK	1	0	Band 66	20M	2174.8	67084	Band 71	20M	637	68786	23.81	24.14
			Band 66 (4*4MIMO)	20M	1745	132322	QPSK	1	0	Band 66	20M	2174.8	67084	Band 71	20M	637	68786	23.93	24.14
			Band 71	20M	683	133322	QPSK	1	0	Band 66	20M	2155	66886	Band 66	20M	2174.8	67084	23.68	24.49
		CA_66A-66C	Band 66	20M	1745	132322	QPSK	1	0	Band 66	20M	2155	66886	Band 66	20M	2174.8	67084	23.92	24.14
			Band 66 (4*4MIMO)	20M	1745	132322	QPSK	1	0	Band 66	20M	2155	66886	Band 66	20M	2174.8	67084	23.97	24.14
Intra-Band	Contiguous	CA_41D	Band 41	20M	2636.5	41055	QPSK	1	0	Band 41	20M	2660.2	41292	Band 41	20M	2640.4	41094	23.33	23.36
	Non-Contiguous	CA_41A-41C	Band 41	20M	2636.5	41055	QPSK	1	0	Band 41	5M	2498.5	39675	Band 41	20M	2510.2	39792	23.31	23.36
Band 41			20M	2636.5	41055	QPSK	1	0	Band 41	20M	2656.3	41253	Band 41	5M	2687.5	41565	23.29	23.36	



<Four Carrier power verification>

	CA Configuration	PCC							SCC1				SCC2				SCC3				Power	
		LTE Band	BW (MHz)	UL Freq. (MHz)	UL Channel	Mod.	UL# RB	UL RB Offset	LTE Band	BW (MHz)	DL Freq. (MHz)	DL Channel	LTE Band	BW (MHz)	DL Freq. (MHz)	DL Channel	LTE Band	BW (MHz)	DL Freq. (MHz)	DL Channel	With CA Tx. Power (dBm)	Without CA Tx. Power (dBm)
Configure	CA_2A-4A-4A-71	Band 2	20M	1900	19100	QPSK	1	0	Band 4	20M	2132.5	2175	Band 4	5M	2152.5	2375	Band71	20M	637	68786	23.76	23.87
		Band 4	20M	1732.5	20175	QPSK	1	0	Band 2	20M	1960	900	Band 4	5M	2152.5	2375	Band71	20M	637	68786	24.12	24.07
		Band71	20M	683	133322	QPSK	1	0	Band 2	20M	1960	900	Band 4	20M	2132.5	2175	Band 4	5M	2152.5	2375	24.34	24.49
	CA_2A-12A-66A-66A	Band 2	20M	1900	19100	QPSK	1	0	Band 12	10M	737.5	5095	Band 66	20M	2155	66886	Band66	5M	2197.5	67311	23.91	23.87
		Band12	10M	707.5	23095	QPSK	1	0	Band 2	20M	1960	900	Band 66	20M	2155	66886	Band66	5M	2197.5	67311	23.87	23.95
		Band66	20M	1745	132322	QPSK	1	0	Band 2	20M	1960	900	Band 12	10M	737.5	5095	Band66	5M	2197.5	67311	24.02	24.14
	CA_2A-2A--66C	Band 2	20M	1900	19100	QPSK	1	0	Band 2	5M	1987.5	1175	Band 66	20M	2155	66886	Band66	20M	2174.8	67084	23.94	23.87
		Band 2(4*4)	20M	1900	19100	QPSK	1	0	Band 2	5M	1987.5	1175	Band 66	20M	2155	66886	Band 66	20M	2174.8	67084	23.8	23.87
		Band66	20M	1745	132322	QPSK	1	0	Band 2	20M	1960	900	Band 2	5M	1987.5	1175	Band66	20M	2174.8	67084	24.13	24.14
		Band 66(4*4 MIMO)	20M	1745	132322	QPSK	1	0	Band 2	20M	1960	900	Band 2	5M	1987.5	1175	Band 66	20M	2174.8	67084	24.2	24.14
	CA_2A-12A--66C	Band 2	20M	1900	19100	QPSK	1	0	Band 12	10M	737.5	5095	Band 66	20M	2155	66886	Band66	20M	2174.8	67084	23.81	23.87
		Band 2(4*4 MIMO)	20M	1900	19100	QPSK	1	0	Band 12	10M	737.5	5095	Band 66	20M	2155	66886	Band 66	20M	2174.8	67084	23.85	23.87
		Band12	20M	1745	132322	QPSK	1	0	Band 2	20M	1960	900	Band 66	20M	2155	66886	Band66	20M	2174.8	67084	23.79	23.95
		Band66	20M	1745	132322	QPSK	1	0	Band 2	20M	1960	900	Band 12	10M	737.5	5095	Band66	20M	2174.8	67084	23.98	24.14
	CA_2A-66C-71A	Band 2	20M	1900	19100	QPSK	1	0	Band 66	20M	2155	66886	Band 66	20M	2174.8	67084	Band71	20M	637	68786	23.77	23.87
		Band66	20M	1745	132322	QPSK	1	0	Band 2	20M	1960	900	Band 66	20M	2174.8	66886	Band71	20M	637	68786	24.26	24.14
		Band71	20M	683	133322	QPSK	1	0	Band 2	20M	1960	900	Band 66	20M	2155	66886	Band66	20M	2174.8	67084	24.34	24.49
	CA_2A-66A-66A-71A	Band 2	20M	1900	19100	QPSK	1	0	Band 66	20M	2155	66886	Band 66	5M	2197.5	67311	Band71	20M	637	68786	23.75	23.87
		Band66	20M	1745	132322	QPSK	1	0	Band 2	20M	1960	900	Band 66	5M	2197.5	67311	Band71	20M	637	68786	24.32	24.14
		Band71	20M	683	133322	QPSK	1	0	Band 2	20M	1960	900	Band 66	20M	2155	66886	Band66	5M	2197.5	67311	24.46	24.49
	CA_2A-2A-66A-71A	Band 2	20M	1900	19100	QPSK	1	0	Band 2	5M	1987.5	1175	Band 66	20M	2155	66886	Band71	20M	637	68786	23.97	23.87
		Band66	20M	1745	132322	QPSK	1	0	Band 2	20M	1960	900	Band 2	5M	1987.5	1175	Band71	20M	637	68786	24.02	24.14
		Band71	20M	683	133322	QPSK	1	0	Band 2	20M	1960	900	Band 2	5M	1987.5	1175	Band66	20M	2155	66886	24.53	24.49
	2A-46D	Band 2	20M	1900	19100	QPSK	1	0	Band 46	20M	5520.2	50492	Band 46	20M	5540	50690	Band46	20M	5559.8	50888	23.7	23.87
		Band 2(4*4 MIMO)	20M	1900	19100	QPSK	1	0	Band 46	20M	5520.2	50492	Band 46	20M	5540	50690	Band 46	20M	5559.8	50888	23.9	23.87
	CA_2A-2A-12A-66A	Band 2	20M	1900	19100	QPSK	1	0	Band 2	5M	1987.5	1175	Band 12	10M	737.5	5095	Band66	20M	2155	66886	23.75	23.87
		Band12	10M	707.5	23095	QPSK	1	0	Band 2	20M	1960	900	Band 2	5M	1987.5	1175	Band66	20M	2155	66886	24.02	23.95
		Band66	20M	1745	132322	QPSK	1	0	Band 2	20M	1960	900	Band 2	5M	1987.5	1175	Band12	10M	737.5	5095	24.19	24.14
	CA_2A-2A-66A-66A	Band 2	20M	1900	19100	QPSK	1	0	Band 2	5M	1987.5	1175	Band 66	20M	2155	66886	Band66	5M	2197.5	67311	23.95	23.87
		Band66	20M	1745	132322	QPSK	1	0	Band 2	20M	1960	900	Band 2	5M	1987.5	1175	Band66	5M	2197.5	67311	24.00	24.14
	CA_2C-66A-66A	Band 2	20M	1900	19100	QPSK	1	0	Band 2	20M	1979.8	1098	Band 66	20M	2155	66886	Band66	5M	2197.5	67311	23.83	23.87
		Band66	20M	1745	132322	QPSK	1	0	Band 2	20M	1960	900	Band 2	20M	1979.8	1098	Band66	5M	2197.5	67311	24.23	24.14
	4A-46D	Band 4	20M	1732.5	20175	QPSK	1	0	Band 46	20M	5520.2	50492	Band 46	20M	5540	50690	Band46	20M	5559.8	50888	24.21	24.07
		Band 4(4*4 MIMO)	20M	1732.5	20175	QPSK	1	0	Band 46	20M	5520.2	50492	Band 46	20M	5540	50690	Band46	20M	5559.8	50888	24.10	24.07
	4A-46A-46C	Band 4	20M	1732.5	20175	QPSK	1	0	Band 46	20M	5160	46890	Band 46	20M	5540.2	50692	Band46	20M	5560	50890	24.20	24.07
		Band 4(4*4 MIMO)	20M	1732.5	20175	QPSK	1	0	Band 46	20M	5160	46890	Band 46	20M	5540.2	50692	Band 46	20M	5560	50890	24.15	24.07
	2A-46A-46C	Band 2	20M	1900	19100	QPSK	1	0	Band 46	20M	5160	46890	Band 46	20M	5540.2	50692	Band46	20M	5560	50890	23.94	23.87
Configure	2A-46A-46C	Band 2(4*4)	20M	1900	19100	QPSK	1	0	Band 46	20M	5160	46890	Band 46	20M	5540.2	50692	Band 46	20M	5560	50890	23.84	23.87
	2A-46A-46A-46A	Band 2	20M	1900	19100	QPSK	1	0	Band 46	20M	5540	50690	Band 46	20M	5160	46890	Band46	20M	5905	54340	23.94	23.87
	66A-46A-46C	Band66	20M	1745	132322	QPSK	1	0	Band 46	20M	5160	46890	Band 46	20M	5540.2	50692	Band46	20M	5560	50890	24.05	24.14



FCC SAR Test Report

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	66A-46A-46C	Band 66(4*4 MIMO)	20M	1745	132322	QPSK	1	0	Band 46	20M	5160	46890	Band 46	20M	5540.2	50692	Band 46	20M	5560	50890	24.1	24.14
	2A-46C-66A	Band66	20M	1745	132322	QPSK	1	0	Band 2	20M	1960	900	Band 46	20M	5540.2	50692	Band46	20M	5560	50890	24.05	24.14
		Band 66(4*4	20M	1745	132322	QPSK	1	0	Band 2	20M	1960	900	Band 46	20M	5540.2	50692	Band 46	20M	5560	50890	24.00	24.14
		Band 2	20M	1900	19100	QPSK	1	0	Band 46	20M	5540.2	50692	Band 46	20M	5560	50890	Band66	20M	2155	66886	23.96	23.87
		Band 2(4*4 MIMO)	20M	1900	19100	QPSK	1	0	Band 46	20M	5540.2	50692	Band 46	20M	5560	50890	Band 66	20M	2155	66886	23.81	23.87
	66A-46D	Band66	20M	1745	132322	QPSK	1	0	Band 46	20M	5520.2	50492	Band 46	20M	5540	50690	Band46	20M	5559.8	50888	24.08	24.14
		Band 66(4*4	20M	1745	132322	QPSK	1	0	Band 46	20M	5520.2	50492	Band 46	20M	5540	50690	Band 46	20M	5559.8	50888	24.18	24.14

<Five Carrier power verification>

Configure	CA Configuration	PCC								SCC1				SCC2				SCC3				SCC4				Power	
		LTE Band	BW (MHz)	UL Freq. (MHz)	UL Channel	Mod.	UL#	UL RB Offset		LTE Band	BW (MHz)	DL Freq. (MHz)	DL Channel	LTE Band	BW (MHz)	DL Freq. (MHz)	DL Channel	LTE Band	BW (MHz)	DL Freq. (MHz)	DL Channel	LTE Band	BW (MHz)	DL Freq. (MHz)	DL Channel	With CA Tx. Power (dBm)	Without CA Tx. Power (dBm)
Inter-Band	CA_2A-46A-46C-66A	Band 2	20M	1900	19100	QPSK	1	0		Band46	20M	5160	46890	Band46	20M	5540.2	50692	Band46	20M	5560	50890	Band66	20M	2155	66886	23.69	23.87
		Band 66	20M	1745	132322	QPSK	1	0		Band 2	20M	1960	900	Band46	20M	5160	46890	Band46	20M	5540.2	50692	Band46	20M	5560	50890	24.05	24.14
	CA_2A-46D-66A	Band 2	20M	1900	19100	QPSK	1	0		Band46	20M	5520.2	50492	Band46	20M	5540	50690	Band46	20M	5559.8	50888	Band66	20M	2155	66886	23.75	23.87
		Band 66	20M	1745	132322	QPSK	1	0		Band 2	20M	1960	900	Band46	20M	5520.2	50492	Band46	20M	5540	50690	Band46	20M	5559.8	50888	24.09	24.14

LTE Carrier Aggregation Conducted Power (Uplink)

1. This device supports uplink carrier aggregation for LTE CA_7C, CA_41C with a maximum of two 20MHz component carriers. For intra band contiguous carrier aggregation scenarios, 3GPP 36.101 Table 6.2.2A-1 specifies that the aggregate maximum allowed output power is equivalent to the single carrier scenario. For the non-contiguously allocated resource blocks which the MPR level is determined by various RB separation and RB sizes requirement, and the allowed MPR levels, settings and the conducted powers are permanently implemented in this device per the 3GPP 36.101 section 6.2.3A.1.3 requirements.
2. According to FCC guidance, the output power with uplink CA active was measured for the high / middle / low channel configuration with the highest reported SAR for each exposure condition, the power was measured with wideband signal integration over both component carriers.
3. In applying the power measurement procedures of KDB 941225 D05A for DL CA to qualify for UL SAR test exclusion, power measurement is required only for the subset in each row with the largest combination of frequency bands and CCs
4. Maximum output power measurement is required for each UL CA configuration for the required test channels described in KDB 941225 D05. The required test channel should be associated with the UL PCC. For channels at the ends of a frequency band, the SCC and subsequent CCs are added to the side within the transmission band. Otherwise, the CCs should be added alternatively to either side of the PCC.



<WWAN Antenna 3 -- Full Power>

<LTE Band 7>

CA_7C										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset				
20850	21048	QPSK	1	0	0	0	1	0	23.15	24
21100	20902	QPSK	1	0	0	0	1	0	23.41	24
21350	21152	QPSK	1	0	0	0	1	0	23.48	24

<LTE Band 41>

CA_41C										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset				
39750	39948	QPSK	1	0	0	0	1	0	23.22	24
40185	40383	QPSK	1	0	0	0	1	0	23.29	24
40620	40422	QPSK	1	0	0	0	1	0	23.32	24
41055	40875	QPSK	1	0	0	0	1	0	23.35	24
41490	41292	QPSK	1	0	0	0	1	0	23.31	24

<WWAN Antenna 3 -- Reduced Power Level 1 for WWAN Only>

<LTE Band 7>

CA_7C										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset				
20850	21048	QPSK	50	24	0	0	50	0	19.89	20.5
21100	20902	QPSK	50	24	0	0	50	0	19.93	20.5
21350	21152	QPSK	50	24	0	0	50	0	19.84	20.5

<LTE Band 41>

CA_41C										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset				
39750	39948	QPSK	1	0	0	0	1	0	21.49	21.8
40185	40383	QPSK	1	0	0	0	1	0	21.54	21.8
40620	40422	QPSK	1	0	0	0	1	0	21.56	21.8
41055	40875	QPSK	1	0	0	0	1	0	21.57	21.8
41490	41292	QPSK	1	0	0	0	1	0	21.52	21.8

<WWAN Antenna 3 -- Reduced Power Level 2 for WWAN + WLAN 2.4GHz Simultaneous Transmission>

<LTE Band 7>

CA_7C										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset				
20850	21048	QPSK	50	24	0	0	50	0	18.14	19
21100	20902	QPSK	50	24	0	0	50	0	18.36	19
21350	21152	QPSK	50	24	0	0	50	0	18.34	19

<LTE Band 41>

CA_41C										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset				
39750	39948	QPSK	1	0	0	0	1	0	19.66	20.5
40185	40383	QPSK	1	0	0	0	1	0	19.72	20.5
40620	40422	QPSK	1	0	0	0	1	0	19.75	20.5
41055	40875	QPSK	1	0	0	0	1	0	19.88	20.5
41490	41292	QPSK	1	0	0	0	1	0	19.8	20.5

<WWAN Antenna 3 -- Reduced Power Level 3 for WWAN + WLAN 5GHz Simultaneous Transmission>

<LTE Band 7>

CA_7C										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset				
20850	21048	QPSK	1	0	0	0	1	0	17.01	18
21100	20902	QPSK	1	0	0	0	1	0	17.37	18
21350	21152	QPSK	1	0	0	0	1	0	17.32	18

<LTE Band 41>

CA_41C										
Combination 20MHz+20MHz (100RB+100RB)										
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level (dB)	Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset				
39750	39948	QPSK	1	0	0	0	1	0	19.44	20
40185	40383	QPSK	1	0	0	0	1	0	19.3	20
40620	40422	QPSK	1	0	0	0	1	0	19.5	20
41055	40875	QPSK	1	0	0	0	1	0	19.51	20
41490	41292	QPSK	1	0	0	0	1	0	19.47	20

<WLAN Conducted Power>**General Note:**

1. For 2.4GHz WLAN each antenna, transmit power in SISO operation is larger than (or equal to) the power in MIMO operation, RF exposure compliance of MIMO mode can be deduced from the compliance simultaneous transmission of antennas operating in SISO mode.
2. For 5GHz WLAN, SAR testing was performed on MIMO mode since it can't transmit in SISO mode, so only evaluate MIMO mode power.
3. Per KDB 248227 D01v02r02, SAR test reduction is determined according to 802.11 transmission mode configurations and certain exposure conditions with multiple test positions. In the 2.4 GHz band, separate SAR procedures are applied to DSSS and OFDM configurations to simplify DSSS test requirements. For OFDM, in both 2.4 and 5 GHz bands, an initial test configuration must be determined for each standalone and aggregated frequency band, according to the transmission mode configuration with the highest maximum output power specified for production units to perform SAR measurements. If the same highest maximum output power applies to different combinations of channel bandwidths, modulations and data rates, additional procedures are applied to determine which test configurations require SAR measurement. When applicable, an initial test position may be applied to reduce the number of SAR measurements required for next to the ear, UMPC mini-tablet or hotspot mode configurations with multiple test positions.
4. For 2.4 GHz 802.11b DSSS, either the initial test position procedure for multiple exposure test positions or the DSSS procedure for fixed exposure position is applied; these are mutually exclusive. For 2.4 GHz and 5 GHz OFDM configurations, the initial test configuration is applied to measure SAR using either the initial test position procedure for multiple exposure test position configurations or the initial test configuration procedures for fixed exposure test conditions. Based on the reported SAR of the measured configurations and maximum output power of the transmission mode configurations that are not included in the initial test configuration, the subsequent test configuration and initial test position procedures are applied to determine if SAR measurements are required for the remaining OFDM transmission configurations. In general, the number of test channels that require SAR measurement is minimized based on maximum output power measured for the test sample(s).
5. For OFDM transmission configurations in the 2.4 GHz and 5 GHz bands, When the same maximum power is specified for multiple transmission modes in a frequency band, the largest channel bandwidth, lowest order modulation, lowest data rate and lowest order 802.11a/g/n/ac mode is used for SAR measurement, on the highest measured output power channel for each frequency band.
6. DSSS and OFDM configurations are considered separately according to the required SAR procedures. SAR is measured in the initial test position using the 802.11 transmission mode configuration required by the DSSS procedure or initial test configuration and subsequent test configuration(s) according to the OFDM procedures.18 The initial test position procedure is described in the following:
 - a. When the reported SAR of the initial test position is ≤ 0.4 W/kg, further SAR measurement is not required for the other test positions in that exposure configuration and 802.11 transmission mode combinations within the frequency band or aggregated band.
 - b. When the reported SAR of the test position is > 0.4 W/kg, SAR is repeated for the 802.11 transmission mode configuration tested in the initial test position to measure the subsequent next closet/smallest test separation distance and maximum coupling test position on the highest maximum output power channel, until the report SAR is ≤ 0.8 W/kg or all required test position are tested.
 - c. For all positions/configurations, when the reported SAR is > 0.8 W/kg, SAR is measured for these test positions/configurations on the subsequent next highest measured output power channel(s) until the reported SAR is ≤ 1.2 W/kg or all required channels are tested.

<Full Power>
<2.4GHz WLAN Ant.1>

2.4GHz WLAN	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %
	802.11b 1Mbps	1	2412	18.60	19.50	99.31
		6	2437	19.03	19.50	
		11	2462	18.84	19.50	
	802.11g 6Mbps	1	2412	17.73	19.00	98.28
		6	2437	18.34	19.00	
		11	2462	18.14	19.00	
	802.11n-HT20 MCS0	1	2412	16.53	18.50	98.16
		6	2437	18.16	18.50	
		11	2462	17.94	18.50	
	802.11n-HT40 MCS0	3	2422	14.56	16.00	94.65
		6	2437	15.80	16.00	
		9	2452	14.93	16.00	
	802.11ac-VHT20 MCS0	1	2412	16.46	17.00	98.16
		6	2437	18.08	18.50	
		11	2462	17.89	18.50	
	802.11ac-VHT40 MCS0	3	2422	14.55	16.00	94.67
		6	2437	15.77	16.00	
		9	2452	14.91	16.00	

<2.4GHz WLAN Ant.2>

2.4GHz WLAN	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %
	802.11b 1Mbps	1	2412	15.77	16.50	99.34
		6	2437	16.24	16.50	
		11	2462	15.87	16.50	
	802.11g 6Mbps	1	2412	15.23	16.50	98.28
		6	2437	15.30	16.50	
		11	2462	15.31	16.50	
	802.11n-HT20 MCS0	1	2412	14.06	15.50	98.16
		6	2437	15.11	15.50	
		11	2462	15.14	15.50	
	802.11n-HT40 MCS0	3	2422	12.11	13.50	94.68
		6	2437	13.38	13.50	
		9	2452	11.80	13.50	
	802.11ac-VHT20 MCS0	1	2412	14.04	15.50	97.79
		6	2437	15.11	15.50	
		11	2462	15.12	15.50	
	802.11ac-VHT40 MCS0	3	2422	12.09	13.50	94.24
		6	2437	13.37	13.50	
		9	2452	11.77	13.50	

<2.4GHz WLAN Ant.1+2>

2.4GHz WLAN	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %
	802.11b 1Mbps	1	2412	20.24	21.00	99.28
		6	2437	20.88	21.00	
		11	2462	20.41	21.00	
	802.11g 6Mbps	1	2412	19.63	20.50	98.28
		6	2437	20.02	20.50	
		11	2462	19.86	20.50	
	802.11n-HT20 MCS0	1	2412	18.57	20.50	98.16
		6	2437	19.87	20.50	
		11	2462	19.63	20.50	
	802.11n-HT40 MCS0	3	2422	16.51	18.00	94.78
		6	2437	17.69	18.00	
		9	2452	16.30	18.00	
	802.11ac-VHT20 MCS0	1	2412	18.50	20.00	96.21
		6	2437	19.79	20.00	
		11	2462	19.52	20.00	
	802.11ac-VHT40 MCS0	3	2422	16.49	18.00	90.58
		6	2437	17.57	18.00	
		9	2452	16.23	18.00	

<5GHz WLAN Ant.1+2>

5.2GHz WLAN	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %
	802.11a 6Mbps	36	5180	20.37	20.50	97.59
		40	5200	20.23	20.50	
		44	5220	20.44	20.50	
		48	5240	20.45	20.50	
	802.11n-HT20 MCS0	36	5180	20.37	20.50	97.79
		40	5200	20.34	20.50	
		44	5220	20.46	20.50	
		48	5240	20.44	20.50	
	802.11n-HT40 MCS0	38	5190	20.41	20.50	96.46
		46	5230	20.46	20.50	
	802.11ac-VHT20 MCS0	36	5180	20.32	20.50	96.20
		40	5200	20.28	20.50	
		44	5220	20.40	20.50	
		48	5240	20.39	20.50	
	802.11ac-VHT40 MCS0	38	5190	20.40	20.50	92.76
		46	5230	20.44	20.50	
	802.11ac-VHT80 MCS0	42	5210	19.56	20.00	87.56

5.3GHz WLAN	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %
	802.11a 6Mbps	52	5260	20.60	21.00	97.59
		56	5280	20.49	21.00	
		60	5300	20.45	21.00	
		64	5320	20.45	21.00	
	802.11n-HT20 MCS0	52	5260	20.51	21.00	97.79
		56	5280	20.39	21.00	
		60	5300	20.43	21.00	
		64	5320	20.49	21.00	
	802.11n-HT40 MCS0	54	5270	20.51	21.00	96.46
		62	5310	20.48	21.00	
	802.11ac-VHT20 MCS0	52	5260	20.48	21.00	96.20
		56	5280	20.33	21.00	
		60	5300	20.35	21.00	
		64	5320	20.40	21.00	
	802.11ac-VHT40 MCS0	54	5270	20.47	21.00	92.76
		62	5310	20.43	21.00	
	802.11ac-VHT80 MCS0	58	5290	19.66	20.00	87.56

5.5GHz WLAN	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %
	802.11a 6Mbps	100	5500	20.61	21.00	97.59
		116	5580	20.48	21.00	
		124	5620	20.34	21.00	
		132	5660	20.43	21.00	
		140	5700	20.46	21.00	
		144	5720	20.51	21.00	
	802.11n-HT20 MCS0	100	5500	20.58	21.00	97.79
		116	5580	20.42	21.00	
		124	5620	20.39	21.00	
		132	5660	20.31	21.00	
		140	5700	20.44	21.00	
		144	5720	20.46	21.00	
	802.11n-HT40 MCS0	102	5510	20.57	21.00	96.46
		110	5550	20.60	21.00	
		126	5630	20.34	21.00	
		134	5670	20.43	21.00	
		142	5710	20.56	21.00	
		144	5720	20.56	21.00	
	802.11ac-VHT20 MCS0	100	5500	20.49	21.00	96.20
		116	5580	20.37	21.00	
		124	5620	20.36	21.00	
		132	5660	20.41	21.00	
		140	5700	20.38	21.00	
		144	5720	20.44	21.00	
	802.11ac-VHT40 MCS0	102	5510	20.52	21.00	92.76
		110	5550	20.54	21.00	
		126	5630	20.47	21.00	
		134	5670	20.40	21.00	
		142	5710	20.54	21.00	
		144	5720	20.54	21.00	
	802.11ac-VHT80 MCS0	106	5530	19.61	20.00	87.56
		122	5610	19.56	20.00	
		138	5690	19.61	20.00	

5.8GHz WLAN	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %
	802.11a MCS0	149	5745	17.57	18.00	97.59
		157	5785	17.97	18.00	
		165	5825	17.68	18.00	
	802.11n-HT20 MCS0	149	5745	17.50	18.00	97.79
		157	5785	17.78	18.00	
		165	5825	17.80	18.00	
	802.11n-HT40 MCS0	151	5755	17.67	18.00	96.46
		159	5795	17.96	18.00	
	802.11ac-VHT20 MCS0	149	5745	17.37	18.00	96.20
		157	5785	17.62	18.00	
		165	5825	17.59	18.00	
	802.11ac-VHT40 MCS0	151	5755	17.56	18.00	92.76
		159	5795	17.87	18.00	
	802.11ac-VHT80 MCS0	155	5775	16.87	17.00	87.56

<Reduced Power Level 1 for WLAN Only>

<2.4GHz WLAN Ant.1>

2.4GHz WLAN	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %
	802.11b 1Mbps	1	2412	15.54	16.50	99.31
		6	2437	16.01	16.50	
		11	2462	15.91	16.50	
	802.11g 6Mbps	1	2412	14.95	16.50	98.28
		6	2437	15.41	16.50	
		11	2462	15.20	16.50	
	802.11n-HT20 MCS0	1	2412	13.77	15.50	98.16
		6	2437	15.11	15.50	
		11	2462	15.01	15.50	
	802.11n-HT40 MCS0	3	2422	13.53	15.00	98.16
		6	2437	15.04	15.50	
		9	2452	14.95	15.50	
	802.11ac-VHT20 MCS0	1	2412	11.99	13.50	94.65
		6	2437	13.13	13.50	
		11	2462	12.27	13.50	
	802.11ac-VHT40 MCS0	3	2422	11.87	13.50	94.67
		6	2437	13.00	13.50	
		9	2452	12.22	13.50	

<2.4GHz WLAN Ant.1+2>

2.4GHz WLAN	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %
	802.11b 1Mbps	1	2412	17.24	18.50	99.28
		6	2437	17.87	18.50	
		11	2462	17.39	18.50	
	802.11g 6Mbps	1	2412	16.62	17.50	98.28
		6	2437	17.04	17.50	
		11	2462	16.88	17.50	
	802.11n-HT20 MCS0	1	2412	15.59	17.50	98.16
		6	2437	16.90	17.50	
		11	2462	16.62	17.50	
	802.11n-HT40 MCS0	3	2422	15.48	16.00	96.21
		6	2437	16.77	17.50	
		9	2452	16.51	17.50	
	802.11ac-VHT20 MCS0	1	2412	13.51	14.50	94.78
		6	2437	14.69	15.00	
		11	2462	13.32	14.00	
	802.11ac-VHT40 MCS0	3	2422	13.49	14.00	90.58
		6	2437	14.55	15.00	
		9	2452	13.20	14.00	

<5GHz WLAN Ant.1+2>

5.2GHz WLAN	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %
	802.11a 6Mbps	36	5180	17.52	18.00	97.59
		40	5200	17.51	18.00	
		44	5220	17.57	18.00	
		48	5240	17.62	18.00	
	802.11n-HT20 MCS0	36	5180	17.42	18.00	97.79
		40	5200	17.33	18.00	
		44	5220	17.50	18.00	
		48	5240	17.45	18.00	
	802.11n-HT40 MCS0	38	5190	17.49	18.00	96.46
		46	5230	17.41	18.00	
	802.11ac-VHT20 MCS0	36	5180	17.34	18.00	96.20
		40	5200	17.31	18.00	
		44	5220	17.30	18.00	
		48	5240	17.28	18.00	
	802.11ac-VHT40 MCS0	38	5190	17.42	18.00	92.76
		46	5230	17.38	18.00	
	802.11ac-VHT80 MCS0	42	5210	16.81	17.00	87.56

5.3GHz WLAN	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %
	802.11a 6Mbps	52	5260	17.63	18.00	97.59
		56	5280	17.55	18.00	
		60	5300	17.51	18.00	
		64	5320	17.45	18.00	
	802.11n-HT20 MCS0	52	5260	17.52	18.00	97.79
		56	5280	17.38	18.00	
		60	5300	17.42	18.00	
		64	5320	17.45	18.00	
	802.11n-HT40 MCS0	54	5270	17.50	18.00	96.46
		62	5310	17.48	18.00	
	802.11ac-VHT20 MCS0	52	5260	17.46	18.00	96.20
		56	5280	17.31	18.00	
		60	5300	17.34	18.00	
		64	5320	17.35	18.00	
	802.11ac-VHT40 MCS0	54	5270	17.39	18.00	92.76
		62	5310	17.44	18.00	
	802.11ac-VHT80 MCS0	58	5290	16.86	17.00	87.56

5.5GHz WLAN	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %
	802.11a 6Mbps	100	5500	17.71	18.00	97.59
		116	5580	17.51	18.00	
		124	5620	17.47	18.00	
		132	5660	17.52	18.00	
		140	5700	17.55	18.00	
		144	5720	17.54	18.00	
	802.11n-HT20 MCS0	100	5500	17.46	18.00	97.79
		116	5580	17.50	18.00	
		124	5620	17.45	18.00	
		132	5660	17.43	18.00	
		140	5700	17.51	18.00	
		144	5720	17.52	18.00	
	802.11n-HT40 MCS0	102	5510	17.49	18.00	96.46
		110	5550	17.43	18.00	
		126	5630	17.34	18.00	
		134	5670	17.45	18.00	
		142	5710	17.53	18.00	
	802.11ac-VHT20 MCS0	100	5500	17.52	18.00	96.20
		116	5580	17.48	18.00	
		124	5620	17.41	18.00	
		132	5660	17.37	18.00	
		140	5700	17.45	18.00	
		144	5720	17.46	18.00	
	802.11ac-VHT40 MCS0	102	5510	17.65	18.00	92.76
		110	5550	17.64	18.00	
		126	5630	17.27	18.00	
		134	5670	17.65	18.00	
		142	5710	17.39	18.00	
	802.11ac-VHT80 MCS0	106	5530	16.71	17.00	87.56
		122	5610	16.79	17.00	
		138	5690	16.72	17.00	

5.8GHz WLAN	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %
	802.11a MCS0	149	5745	17.57	18.00	97.59
		157	5785	17.97	18.00	
		165	5825	17.68	18.00	
	802.11n-HT20 MCS0	149	5745	17.50	18.00	97.79
		157	5785	17.78	18.00	
		165	5825	17.80	18.00	
	802.11n-HT40 MCS0	151	5755	17.67	18.00	96.46
		159	5795	17.96	18.00	
	802.11ac-VHT20 MCS0	149	5745	17.37	18.00	96.20
		157	5785	17.62	18.00	
		165	5825	17.59	18.00	
	802.11ac-VHT40 MCS0	151	5755	17.56	18.00	92.76
		159	5795	17.87	18.00	
	802.11ac-VHT80 MCS0	155	5775	16.87	17.00	87.56

<Reduced Power Level 2 for WWAN + WLAN 5GHz Simultaneous Transmission>
<5GHz WLAN Ant.1+2>

	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %
5.2GHz WLAN	802.11a 6Mbps	36	5180	16.53	17.00	97.59
		40	5200	16.51	17.00	
		44	5220	16.59	17.00	
		48	5240	16.62	17.00	
	802.11n-HT20 MCS0	36	5180	16.42	17.00	97.79
		40	5200	16.33	17.00	
		44	5220	16.51	17.00	
		48	5240	16.46	17.00	
	802.11n-HT40 MCS0	38	5190	16.50	17.00	96.46
		46	5230	16.41	17.00	
	802.11ac-VHT20 MCS0	36	5180	16.33	17.00	96.20
		40	5200	16.30	17.00	
		44	5220	16.29	17.00	
		48	5240	16.27	17.00	
	802.11ac-VHT40 MCS0	38	5190	16.42	17.00	92.76
		46	5230	16.36	17.00	
	802.11ac-VHT80 MCS0	42	5210	15.81	16.00	87.56

	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %
5.3GHz WLAN	802.11a 6Mbps	52	5260	16.63	17.00	97.59
		56	5280	16.57	17.00	
		60	5300	16.52	17.00	
		64	5320	16.46	17.00	
	802.11n-HT20 MCS0	52	5260	16.53	17.00	97.79
		56	5280	16.35	17.00	
		60	5300	16.43	17.00	
		64	5320	16.45	17.00	
	802.11n-HT40 MCS0	54	5270	16.50	17.00	96.46
		62	5310	16.49	17.00	
	802.11ac-VHT20 MCS0	52	5260	16.46	17.00	96.20
		56	5280	16.31	17.00	
		60	5300	16.33	17.00	
		64	5320	16.35	17.00	
	802.11ac-VHT40 MCS0	54	5270	16.39	17.00	92.76
		62	5310	16.44	17.00	
	802.11ac-VHT80 MCS0	58	5290	15.86	16.00	87.56

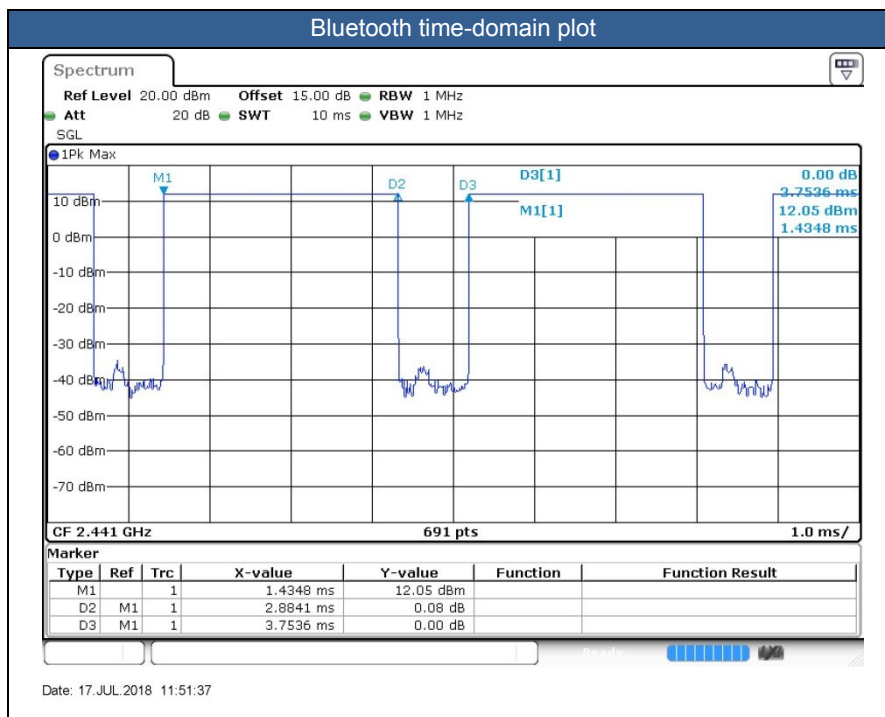
5.5GHz WLAN	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %
	802.11a 6Mbps	100	5500	16.71	17.00	97.59
		116	5580	16.51	17.00	
		124	5620	16.47	17.00	
		132	5660	16.52	17.00	
		140	5700	16.55	17.00	
		144	5720	16.54	17.00	
	802.11n-HT20 MCS0	100	5500	16.46	17.00	97.79
		116	5580	16.50	17.00	
		124	5620	16.45	17.00	
		132	5660	16.43	17.00	
		140	5700	16.51	17.00	
		144	5720	16.52	17.00	
	802.11n-HT40 MCS0	102	5510	16.49	17.00	96.46
		110	5550	16.43	17.00	
		126	5630	16.34	17.00	
		134	5670	16.45	17.00	
		142	5710	16.83	17.00	
	802.11ac-VHT20 MCS0	100	5500	16.52	17.00	96.20
		116	5580	16.48	17.00	
		124	5620	16.41	17.00	
		132	5660	16.37	17.00	
		140	5700	16.45	17.00	
		144	5720	16.46	17.00	
	802.11ac-VHT40 MCS0	102	5510	16.65	17.00	92.76
		110	5550	16.64	17.00	
		126	5630	16.27	17.00	
		134	5670	16.65	17.00	
		142	5710	16.39	17.00	
	802.11ac-VHT80 MCS0	106	5530	15.71	16.00	87.56
		122	5610	15.79	16.00	
		138	5690	15.72	16.00	

5.8GHz WLAN	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %
	802.11a MCS0	149	5745	16.67	17.00	97.59
		157	5785	16.98	17.00	
		165	5825	16.72	17.00	
	802.11n-HT20 MCS0	149	5745	16.58	17.00	97.79
		157	5785	16.67	17.00	
		165	5825	16.70	17.00	
	802.11n-HT40 MCS0	151	5755	16.76	17.00	96.46
		159	5795	16.96	17.00	
	802.11ac-VHT20 MCS0	149	5745	16.53	17.00	96.20
		157	5785	16.66	17.00	
		165	5825	16.67	17.00	
	802.11ac-VHT40 MCS0	151	5755	16.66	17.00	92.76
		159	5795	16.83	17.00	
	802.11ac-VHT80 MCS0	155	5775	15.96	16.00	87.56

<2.4GHz Bluetooth>

General Note:

1. For 2.4GHz Bluetooth SAR testing was selected 1Mbps, due to its highest average power.
2. The Bluetooth duty cycle is 76.84 % as following figure, according to 2016 Oct. TCB workshop for Bluetooth SAR scaling need further consideration and the theoretical duty cycle is 83.3%, therefore the actual duty cycle will be scaled up to the theoretical value of Bluetooth reported SAR calculation.

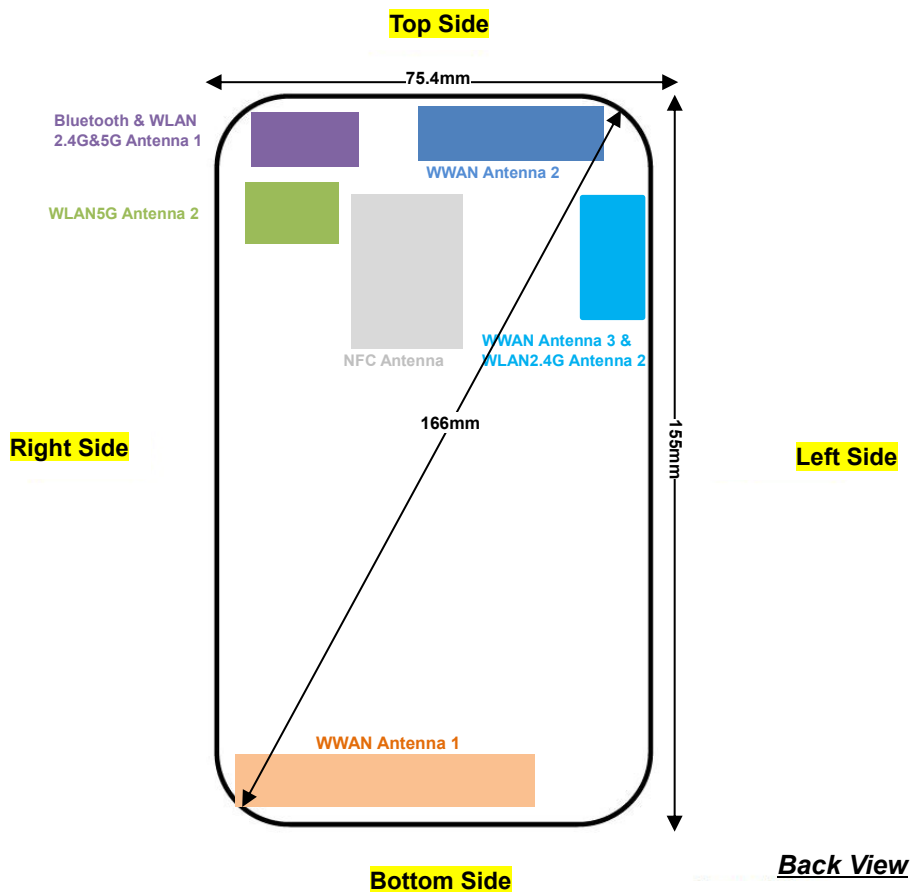


Mode	Channel	Frequency (MHz)	Average power (dBm)
			1Mbps
v3.0 with EDR	CH 00	2402	12.73
	CH 39	2441	12.71
	CH 78	2480	12.18
Tune-up limit (dBm)			13.10

Mode	Channel	Frequency (MHz)	Average power (dBm)
			GFSK
v4.0/4.1/4.2 with LE	CH 00	2402	12.55
	CH 19	2440	12.53
	CH 39	2480	11.97
Tune-up limit (dBm)			13.00

Mode	Channel	Frequency (MHz)	Average power (dBm)
			GFSK
v5.0 with LE	CH 00	2402	12.79
	CH 19	2440	12.76
	CH 39	2480	12.31
Tune-up limit (dBm)			13.00

13. Antenna Location



Antenna	Support Band
WWAN Antenna 1	GSM: 850 / 1900 WCDMA: B2 / B4 / B5 CDMA: BC0/BC1 LTE: B2 / B4 / B5 / B12 / B13 / B17 / B25 / B26 / B66 / B71
WWAN Antenna 2	GSM: 850 / 1900 WCDMA: B2 / B4 / B5 CDMA: BC0/BC1 LTE: B2 / B4 / B5 / B12 / B13 / B17 / B25 / B26 / B66 / B71
WWAN Antenna 3 & WLAN2.4G Antenna 2	LTE: B7 / B30 / B38 / B41 WLAN 2.4GHz
Bluetooth & WLAN2.4G&5G Antenna 1	Bluetooth WLAN 2.4GHz WLAN 5GHz
WLAN 5G Antenna 2	WLAN 5GHz

Distance of the Antenna to the EUT surface/edge						
Antennas	Back	Front	Top Side	Bottom Side	Right Side	Left Side
WWAN Antenna 1	≤ 25mm	≤ 25mm	>25mm	≤ 25mm	≤ 25mm	≤ 25mm
WWAN Antenna 2	≤ 25mm	≤ 25mm	≤ 25mm	>25mm	>25mm	≤ 25mm
WWAN Antenna 3 & WLAN2.4G Antenna 2	≤ 25mm	≤ 25mm	≤ 25mm	>25mm	>25mm	≤ 25mm
Bluetooth & WLAN2.4G&5G Antenna 1	≤ 25mm	≤ 25mm	≤ 25mm	>25mm	≤ 25mm	>25mm
WLAN 5G Antenna 2	≤ 25mm	≤ 25mm	≤ 25mm	>25mm	≤ 25mm	>25mm

Positions for SAR tests; Hotspot mode						
Antennas	Back	Front	Top Side	Bottom Side	Right Side	Left Side
WWAN Antenna 1	Yes	Yes	No	Yes	Yes	Yes
WWAN Antenna 2	Yes	Yes	Yes	No	No	Yes
WWAN Antenna 3 & WLAN2.4G Antenna 2	Yes	Yes	Yes	No	No	Yes
Bluetooth & WLAN2.4G&5G Antenna 1	Yes	Yes	Yes	No	Yes	No
WLAN 5G Antenna 2	Yes	Yes	Yes	No	Yes	No

General Note:

Referring to KDB 941225 D06 v02r01, when the overall device length and width are $\geq 9\text{cm} \times 5\text{cm}$, the test distance is 10 mm. SAR must be measured for all sides and surfaces with a transmitting antenna located within 25mm from that surface or edge.

14. SAR Test Results

General Note:

1. Per KDB 447498 D01v06, the reported SAR is the measured SAR value adjusted for maximum tune-up tolerance.
 - a. Tune-up scaling Factor = tune-up limit power (mW) / EUT RF power (mW), where tune-up limit is the maximum rated power among all production units.
 - b. For SAR testing of BT/WLAN signal with non-100% duty cycle, the measured SAR is scaled-up by the duty cycle scaling factor which is equal to "1/(duty cycle)"
 - c. For WWAN: Reported SAR(W/kg)= Measured SAR(W/kg)*Tune-up Scaling Factor
 - d. For WLAN/Bluetooth: Reported SAR(W/kg)= Measured SAR(W/kg)* Duty Cycle scaling factor * Tune-up scaling factor
 - e. For TDD LTE SAR measurement, the duty cycle 1:1.59 (62.9 %) was used perform testing and considering the theoretical duty cycle of 63.3% for extended cyclic prefix in the uplink, and the theoretical duty cycle of 62.9% for normal cyclic prefix in uplink, a scaling factor of extended cyclic prefix 63.3%/62.9% = 1.006 is applied to scale-up the measured SAR result.
The Reported TDD LTE SAR = measured SAR (W/kg)* Tune-up Scaling Factor* scaling factor for extended cyclic prefix.
2. Per KDB 447498 D01v06, for each exposure position, testing of other required channels within the operating mode of a frequency band is not required when the *reported* 1-g or 10-g SAR for the mid-band or highest output power channel is:
 - ≤ 0.8 W/kg or 2.0 W/kg, for 1-g or 10-g respectively, when the transmission band is ≤ 100 MHz
 - ≤ 0.6 W/kg or 1.5 W/kg, for 1-g or 10-g respectively, when the transmission band is between 100 MHz and 200 MHz
 - ≤ 0.4 W/kg or 1.0 W/kg, for 1-g or 10-g respectively, when the transmission band is ≥ 200 MHz
3. Per KDB 865664 D01v01r04, for each frequency band, repeated SAR measurement is required only when the measured SAR is ≥ 0.8W/kg for 1g SAR and 2.0W/Kg for 10g SAR.
4. Per KDB 648474 D04v01r03, when the reported SAR for a body-worn accessory measured without a headset connected to the handset is ≤ 1.2 W/kg, SAR testing with a headset connected to the handset is not required.
5. This device has two antennas. The primary cellular antenna is located on the bottom edge of the device and the secondary cellular antenna is located on the top edge of the device and can't transmit simultaneously.
6. For WLAN transmitter
Head exposure conditions:
Reduced power level 1 –When the audio is actively routed through the earpiece receiver, and the proximity sensor is triggered which indicating the next-to-head condition and the LCD display is off, power reduction enabled for WLAN2.4GHz ant 1, ant1+2 and all WLAN 5GHz MIMO.

Reduced power level 2 –While the device WLAN 5GHz(all WLAN5GHz bands)is transmitting simultaneously with the WWAN antenna 1/2/3, and the audio is actively routed through the earpiece receiver, and the proximity sensor is triggered which indicating the next-to-head condition and the LCD display is off.
7. There are totally two power reduction levels of WWAN antenna 1, four power reduction levels of WWAN antenna 2/3.
More detail descriptions of the power reduction mechanism could refer as below:
 - 1) For WWAN antenna 1 (2 sets of power reduction levels).
 - a) Hotspot exposure condition:
Reduced power level 1 – GSM1900, WCDMA B2 / B4, CDMA BC1, LTE B2 / B4 / B25 / B66
While the device WWAN is transmitting at the WWAN antenna 1, and hotspot mode is enabled, power reduction enabled for those bands.
 - b) Product specific 10g SAR exposure conditions – WCDMA B2 / B4, CDMA BC1, LTE B2 / B4 / B25 / B66
P-sensor can detect handheld state, for product specific 10g SAR condition, reduced powers will be active for those bands.
 - 2) For WWAN antenna 2/3 (4 sets of power reduction levels).
Head exposure conditions:
Reduced power level 1 – GSM850/1900, WCDMA B2 / B4 / B5, CDMA BC0 / BC1, LTE B2 / B4 / B5 / B7 / B13 / B25 / B26 / B30 / B38 / B41 / B66, LTE Uplink CA CA_7C and CA_41C. While the device is transmitting at the WWAN antenna 2/3, and the audio is actively routed through the earpiece receiver, and the proximity sensor is triggered which indicating the next-to-head condition and the LCD display is off, power reduction enabled for those bands.

Reduced power level 2 – GSM 850/1900, WCDMA B2 / B4 / B5, CDMA BC0 / BC1, LTE B2 / B4 / B5 / B7 / B12 / B13 / B17 / B25 / B26 / B30 / B38 / B41 / B66 / B71, LTE Uplink CA CA_7C and CA_41C.
While the device WLAN 2.4GHz is transmitting simultaneously with the WWAN antenna 2/3, and the audio is actively routed through the earpiece receiver, and the proximity sensor is triggered which indicating the next-to-head condition and the LCD display is off, power reduction enabled for those bands.

Reduced power level 3 – GSM 850/1900, WCDMA B2 / B4 / B5, CDMA BC0 / BC1, LTE B2 / B4 / B5 / B7 / B12 / B13 / B17 / B25 / B26 / B30 / B38 / B41 / B66 / B71, LTE Uplink CA CA_7C and CA_41C.



While the device WLAN 5GHz is transmitting simultaneously with the WWAN antenna 2/3, and the audio is actively routed through the earpiece receiver, and the proximity sensor is triggered which indicating the next-to-head condition and the LCD display is off, power reduction enabled for those bands.

CDMA BC1, LTE B26 / B30: reduced power level 3 is the same as the reduced power level 2 configuration.

8. Per KDB648474 D04v01r03, for smart phones with a display diagonal dimension > 15.0 cm or an overall diagonal dimension > 16.0 cm, when hotspot mode applies, 10-g extremity SAR is required only for the surfaces and edges with hotspot mode 1-g reported SAR > 1.2 W/kg, however, when power reduction applies to hotspot mode the measured SAR must be scaled to the maximum output power, including tolerance, allowed for phablet modes to compare with the 1.2 W/kg SAR test reduction threshold.
 - a. For this device, WWAN transmitter scaled to reduced power mode for product specific 10g SAR is higher than 1.2W/kg of GSM 1900, WCDMA B2 / B4, CDMA BC1 and LTE B2 / B4 / B25 / B66, therefore product specific SAR is necessary.
 - b. WLAN 5.3/5.5GHz tested the product specific 10g SAR since it has no hotspot mode.
 - c. When 10-g product specific 10g SAR is considered, SAR thresholds is specified in the procedures for SAR test reduction and exclusion should be multiplied by 2.5.

GSM Note:

1. Per KDB 941225 D01v03r01, for SAR test reduction for GSM / GPRS / EDGE modes is determined by the source-based time-averaged output power including tune-up tolerance. The mode with highest specified time-averaged output power should be tested for SAR compliance in the applicable exposure conditions. For modes with the same specified maximum output power and tolerance, the higher number time-slot configuration should be tested.
2. Other configurations of GSM / GPRS / EDGE are considered as secondary modes. The 3G SAR test reduction procedure is applied, when the maximum output power and tune-up tolerance specified for production units in a secondary mode is $\leq \frac{1}{4}$ dB higher than the primary mode, SAR measurement is not required for the secondary mode.
3. GPRS (3Tx slots) for GSM850/GSM1900 when EUT operating others with power back-off or without power back-off is considered as the primary mode for WWAN antenna 1 and antenna 2.
4. Power reduction which is triggered by hotspot mode is implemented in GSM1900 band for WWAN antenna 1, for hotspot mode SAR testing EUT was set in reduced mode and GPRS (3Tx slots) due to its highest frame-average power.
5. GPRS (1Tx slots) for GSM850 and GPRS (3Tx slots) for GSM1900 for WWAN antenna 2 is chosen for perform SAR testing when reduced Power Level 1.
6. GPRS (3Tx slots) for GSM850/GSM1900 for WWAN antenna 2 is chosen for perform SAR testing when reduced Power Level 2/3.

WCDMA Note:

1. Per KDB 941225 D01v03r01, for SAR testing is measured using a 12.2 kbps RMC with TPC bits configured to all "1's".
2. Per KDB 941225 D01v03r01, RMC 12.2kbps setting is used to evaluate SAR. The maximum output power and tune-up tolerance specified for production units in HSDPA / HSUPA / DC-HSDPA / HSPA+ is $\leq \frac{1}{4}$ dB higher than RMC 12.2Kbps or when the highest reported SAR of the RMC12.2Kbps is scaled by the ratio of specified maximum output power and tune-up tolerance of HSDPA / HSUPA / DC-HSDPA / HSPA+ to RMC12.2Kbps and the adjusted SAR is ≤ 1.2 W/kg, SAR measurement is not required for HSDPA / HSUPA / DC-HSDPA / HSPA+, and according to the following RF output power, the output power results of the secondary modes (HSDPA / HSUPA / DC-HSDPA / HSPA+) are less than $\frac{1}{4}$ dB higher than the primary modes; therefore, SAR measurement is not required for HSDPA / HSUPA / DC-HSDPA / HSPA+.

CDMA2000 Note:

1. Per KDB 941225 D01v03r01, SAR for head exposure is measured in RC3 with the handset configured to transmit at full rate in SO55.
2. Per KDB 941225 D01v03r01, in Hotspot mode EUT is treated as data device and SAR is tested with Ev-Do Rev 0 (RTAP 153.6kbps) as the primary mode.
3. Per KDB 941225 D01v03r01, for Body-worn accessory SAR is measured in RC3 with the handset configured in TDSO/SO32 to transmit at full rate on FCH only with all other code channels disabled. The body-worn accessory procedures in KDB Publication 447498 are applied. The 3G SAR test reduction procedure is applied to the multiple code channel configuration (FCH+SCH), with FCH only as the primary mode.

LTE Note:

1. Per KDB 941225 D05v02r05, start with the largest channel bandwidth and measure SAR for QPSK with 1 RB allocation, using the RB offset and required test channel combination with the highest maximum output power for RB offsets at the upper edge, middle and lower edge of each required test channel.
2. Per KDB 941225 D05v02r05, 50% RB allocation for QPSK SAR testing follows 1RB QPSK allocation procedure.
3. Per KDB 941225 D05v02r05, for QPSK with 100% RB allocation, SAR is not required when the highest maximum output power for 100 % RB allocation is less than the highest maximum output power in 50% and 1 RB allocations and the highest reported SAR for 1 RB and 50% RB allocation are ≤ 0.8 W/kg. Otherwise, SAR is measured for the highest output power channel; and if the reported SAR is > 1.45 W/kg, the remaining required test channels must also be tested.
4. Per KDB 941225 D05v02r05, 16QAM/64QAM output power for each RB allocation configuration is $>$ not $\frac{1}{2}$ dB higher than the same configuration in QPSK and the reported SAR for the QPSK configuration is ≤ 1.45 W/kg; Per KDB 941225 D05v02r05, 16QAM/64QAM SAR testing is not required.
5. Per KDB 941225 D05v02r05, smaller bandwidth output power for each RB allocation configuration is $>$ not $\frac{1}{2}$ dB higher than the same configuration in the largest supported bandwidth, and the reported SAR for the largest supported bandwidth is ≤ 1.45 W/kg; Per KDB 941225 D05v02r05, smaller bandwidth SAR testing is not required.
6. Per FCC KDB inquiry guidance, the following applied to intra-band contiguous UL CA only;
 - a. Maximum output power measurement is required for each UL CA configuration for the required test channels described in KDB 941225 D05. The required test channel should be associated with the UL PCC. For channels at the ends of a frequency band, the SCC and subsequent CCs are added to the side within the transmission band. Otherwise, the CCs should be added alternatively to either side of the PCC
 - b. UL CA SAR is measured for each exposure condition in each frequency band using the highest SAR configuration tested in standalone LTE mode to establish the UL CA PCC. The SCC and subsequent CC must use configurations similar to the PCC to establish conservative or worst case equivalent SAR test conditions.
 - c. When the SAR configuration tested in step b) has a maximum output power specification more than $\frac{1}{4}$ dB lower than the highest maximum output power conditions measured in the power measurements in step a) above and the reported SAR in step b) is larger than 1.2 W/kg, SAR measurement is also required for the configuration in step a)
 - d. All standalone SAR configurations with SAR > 1.2 W/kg must also be tested by applying the procedures in step b)
7. For LTE B4 / B5 / B12 / B17 / B26 / B71 the maximum bandwidth does not support three non-overlapping channels, per KDB 941225 D05v02r05, when a device supports overlapping channel assignment in a channel bandwidth configuration, the middle channel of the group of overlapping channels should be selected for testing.
8. LTE B17 / B4 / B2 / B38 SAR test was covered by B12 / B66 / B25 / B41; according to TCB workshop, SAR test for overlapping LTE bands can be reduced if
 - a. The maximum output power, including tolerance, for the smaller band is $\leq$ the larger band to qualify for the SAR test exclusion.
 - b. The channel bandwidth and other operating parameters for the smaller band are fully supported by the larger band.

WLAN Note:

1. For 2.4GHz WLAN each antenna, transmit power in SISO operation is larger than (or equal to) the power in MIMO operation, RF exposure compliance of MIMO mode can be deduced from the compliance simultaneous transmission of antennas operating in SISO mode.
2. For 5GHz WLAN, SAR testing was performed on MIMO mode since it can't transmit in SISO mode, so only evaluate MIMO mode SAR.
3. Per KDB 248227 D01v02r02, for 2.4GHz 802.11g/n SAR testing is not required when the highest reported SAR for DSSS is adjusted by the ratio of OFDM to DSSS specified maximum output power and the adjusted SAR is ≤ 1.2 W/kg.
4. Per KDB 248227 D01v02r02, U-NII-1 SAR testing is not required when the U-NII-2A band highest reported SAR for a test configuration is ≤ 1.2 W/kg, SAR is not required for U-NII-1 band.
5. When the reported SAR of the test position is > 0.4 W/kg, SAR is repeated for the 802.11 transmission mode configuration tested in the initial test position to measure the subsequent next closet/smallest test separation distance and maximum coupling test position on the highest maximum output power channel, until the report SAR is ≤ 0.8 W/kg or all required test position are tested.
6. For all positions / configurations, when the reported SAR is > 0.8 W/kg, SAR is measured for these test positions / configurations on the subsequent next highest measured output power channel(s) until the reported SAR is ≤ 1.2 W/kg or all required channels are tested.
7. During SAR testing the WLAN transmission was verified using a spectrum analyzer.



14.1 Head SAR

<GSM SAR>

Plot No.	Antenna	Band	Mode	Test Position	Power Reduction	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
01	2	GSM850	GPRS(1 Tx slot)	Right Cheek	Reduced Level 1	251	848.8	32.91	33.30	1.094	0.05	0.963	1.053
	2	GSM850	GPRS(1 Tx slot)	Right Tilted	Reduced Level 1	251	848.8	32.91	33.30	1.094	0.07	0.857	0.938
	2	GSM850	GPRS(1 Tx slot)	Left Cheek	Reduced Level 1	251	848.8	32.91	33.30	1.094	0.04	0.471	0.515
	2	GSM850	GPRS(1 Tx slot)	Left Tilted	Reduced Level 1	251	848.8	32.91	33.30	1.094	0.02	0.502	0.549
	2	GSM850	GPRS(1 Tx slot)	Right Cheek	Reduced Level 1	128	824.2	32.83	33.30	1.114	0.06	0.865	0.964
	2	GSM850	GPRS(1 Tx slot)	Right Cheek	Reduced Level 1	189	836.4	32.82	33.30	1.117	0.18	0.824	0.920
	2	GSM850	GPRS(1 Tx slot)	Right Tilted	Reduced Level 1	128	824.2	32.83	33.30	1.114	0.08	0.763	0.850
	2	GSM850	GPRS(1 Tx slot)	Right Tilted	Reduced Level 1	189	836.4	32.82	33.30	1.117	0.03	0.813	0.908
	2	GSM850	GPRS(3 Tx slot)	Right Cheek	Reduced Level 2	251	848.8	25.61	26.80	1.315	0.05	0.688	0.905
	2	GSM850	GPRS(3 Tx slot)	Right Tilted	Reduced Level 2	251	848.8	25.61	26.80	1.315	0.15	0.648	0.852
	2	GSM850	GPRS(3 Tx slot)	Left Cheek	Reduced Level 2	251	848.8	25.61	26.80	1.315	0.04	0.421	0.554
	2	GSM850	GPRS(3 Tx slot)	Left Tilted	Reduced Level 2	251	848.8	25.61	26.80	1.315	0.03	0.385	0.506
	2	GSM850	GPRS(3 Tx slot)	Right Cheek	Reduced Level 2	128	824.2	25.58	26.80	1.324	-0.09	0.503	0.666
	2	GSM850	GPRS(3 Tx slot)	Right Cheek	Reduced Level 2	189	836.4	25.27	26.80	1.422	0.17	0.619	0.880
	2	GSM850	GPRS(3 Tx slot)	Right Tilted	Reduced Level 2	128	824.2	25.58	26.80	1.324	0.03	0.472	0.625
	2	GSM850	GPRS(3 Tx slot)	Right Tilted	Reduced Level 2	189	836.4	25.27	26.80	1.422	0.13	0.551	0.784
	2	GSM850	GPRS(3 Tx slot)	Right Cheek	Reduced Level 3	251	848.8	24.78	25.80	1.265	0.03	0.510	0.645
	2	GSM850	GPRS(3 Tx slot)	Right Tilted	Reduced Level 3	251	848.8	24.78	25.80	1.265	0.07	0.489	0.618
	2	GSM850	GPRS(3 Tx slot)	Left Cheek	Reduced Level 3	251	848.8	24.78	25.80	1.265	0.02	0.337	0.426
	2	GSM850	GPRS(3 Tx slot)	Left Tilted	Reduced Level 3	251	848.8	24.78	25.80	1.265	0.03	0.360	0.455
	2	GSM850	GPRS(3 Tx slot)	Right Cheek	Reduced Level 3	128	824.2	24.66	25.80	1.300	0.07	0.382	0.497
	2	GSM850	GPRS(3 Tx slot)	Right Cheek	Reduced Level 3	189	836.4	24.42	25.80	1.374	0.05	0.459	0.631
	1	GSM850	GPRS(3 Tx slots)	Right Cheek	Full	251	848.8	29.18	29.80	1.153	0.02	0.112	0.129
	1	GSM850	GPRS(3 Tx slots)	Right Tilted	Full	251	848.8	29.18	29.80	1.153	0.01	0.066	0.076
	1	GSM850	GPRS(3 Tx slots)	Left Cheek	Full	251	848.8	29.18	29.80	1.153	-0.03	0.145	0.167
	1	GSM850	GPRS(3 Tx slots)	Left Tilted	Full	251	848.8	29.18	29.80	1.153	0.01	0.066	0.076
	1	GSM850	GPRS(3 Tx slots)	Left Cheek	Full	128	824.2	28.88	29.80	1.236	0.05	0.156	0.193
	1	GSM850	GPRS(3 Tx slots)	Left Cheek	Full	189	836.4	29.05	29.80	1.189	0.01	0.167	0.198
	2	GSM1900	GPRS(3 Tx slots)	Right Cheek	Reduced Level 1	810	1909.8	25.31	26.00	1.172	0.01	0.864	1.013
	2	GSM1900	GPRS(3 Tx slots)	Right Tilted	Reduced Level 1	810	1909.8	25.31	26.00	1.172	0.03	0.897	1.051
	2	GSM1900	GPRS(3 Tx slots)	Left Cheek	Reduced Level 1	810	1909.8	25.31	26.00	1.172	0.09	0.223	0.261
	2	GSM1900	GPRS(3 Tx slots)	Left Tilted	Reduced Level 1	810	1909.8	25.31	26.00	1.172	0.02	0.215	0.252
	2	GSM1900	GPRS(3 Tx slots)	Right Cheek	Reduced Level 1	512	1850.2	25.18	26.00	1.208	0.07	0.890	1.075
02	2	GSM1900	GPRS(3 Tx slots)	Right Cheek	Reduced Level 1	661	1880	25.29	26.00	1.178	0.04	1.030	1.213
	2	GSM1900	GPRS(3 Tx slots)	Right Tilted	Reduced Level 1	512	1850.2	25.18	26.00	1.208	0.04	0.773	0.934
	2	GSM1900	GPRS(3 Tx slots)	Right Tilted	Reduced Level 1	661	1880	25.29	26.00	1.178	0.08	0.939	1.106
	2	GSM1900	GPRS(3 Tx slots)	Right Cheek	Reduced Level 2	810	1909.8	23.12	24.00	1.225	0.14	0.649	0.795
	2	GSM1900	GPRS(3 Tx slots)	Right Tilted	Reduced Level 2	810	1909.8	23.12	24.00	1.225	0.07	0.672	0.823
	2	GSM1900	GPRS(3 Tx slots)	Left Cheek	Reduced Level 2	810	1909.8	23.12	24.00	1.225	0.05	0.221	0.271
	2	GSM1900	GPRS(3 Tx slots)	Left Tilted	Reduced Level 2	810	1909.8	23.12	24.00	1.225	0.04	0.370	0.453
	2	GSM1900	GPRS(3 Tx slots)	Right Tilted	Reduced Level 2	512	1850.2	23.07	24.00	1.239	0.05	0.667	0.826
	2	GSM1900	GPRS(3 Tx slots)	Right Tilted	Reduced Level 2	661	1880	23.02	24.00	1.253	0.04	0.771	0.966
	2	GSM1900	GPRS(3 Tx slots)	Right Cheek	Reduced Level 3	810	1909.8	22.41	23.00	1.146	0.09	0.629	0.721
	2	GSM1900	GPRS(3 Tx slots)	Right Tilted	Reduced Level 3	810	1909.8	22.41	23.00	1.146	0.06	0.446	0.511
	2	GSM1900	GPRS(3 Tx slots)	Left Cheek	Reduced Level 3	810	1909.8	22.41	23.00	1.146	0.04	0.179	0.205
	2	GSM1900	GPRS(3 Tx slots)	Left Tilted	Reduced Level 3	810	1909.8	22.41	23.00	1.146	0.02	0.162	0.186
	2	GSM1900	GPRS(3 Tx slots)	Right Cheek	Reduced Level 3	512	1850.2	22.26	23.00	1.186	0.08	0.498	0.591
	2	GSM1900	GPRS(3 Tx slots)	Right Cheek	Reduced Level 3	661	1880	22.25	23.00	1.189	0.07	0.559	0.664



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	1	GSM1900	GPRS(3 Tx slots)	Right Cheek	Full	810	1909.8	25.31	26.00	1.172	0.05	0.054	0.063
	1	GSM1900	GPRS(3 Tx slots)	Right Tilted	Full	810	1909.8	25.31	26.00	1.172	0.08	0.012	0.014
	1	GSM1900	GPRS(3 Tx slots)	Left Cheek	Full	810	1909.8	25.31	26.00	1.172	0.01	0.005	0.006
	1	GSM1900	GPRS(3 Tx slots)	Left Tilted	Full	810	1909.8	25.31	26.00	1.172	0.06	0.002	0.002
	1	GSM1900	GPRS(3 Tx slots)	Right Cheek	Full	512	1850.2	25.18	26.00	1.208	0.05	0.043	0.052
	1	GSM1900	GPRS(3 Tx slots)	Right Cheek	Full	661	1880	25.29	26.00	1.178	0.02	0.050	0.059

<WCDMA SAR>

Plot No.	Antenna	Band	Mode	Test Position	Power Reduction	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	2	WCDMA Band V	RMC 12.2Kbps	Right Cheek	Reduced Level 1	4182	836.4	22.14	23.00	1.219	0.03	0.869	1.059
	2	WCDMA Band V	RMC 12.2Kbps	Right Tilted	Reduced Level 1	4182	836.4	22.14	23.00	1.219	0.03	0.872	1.063
	2	WCDMA Band V	RMC 12.2Kbps	Left Cheek	Reduced Level 1	4182	836.4	22.14	23.00	1.219	-0.03	0.569	0.694
	2	WCDMA Band V	RMC 12.2Kbps	Left Tilted	Reduced Level 1	4182	836.4	22.14	23.00	1.219	0.11	0.519	0.633
	2	WCDMA Band V	RMC 12.2Kbps	Right Cheek	Reduced Level 1	4132	826.4	22.06	23.00	1.242	0.09	0.822	1.021
03	2	WCDMA Band V	RMC 12.2Kbps	Right Cheek	Reduced Level 1	4233	846.6	22.00	23.00	1.259	0.02	0.930	1.171
	2	WCDMA Band V	RMC 12.2Kbps	Right Tilted	Reduced Level 1	4132	826.4	22.06	23.00	1.242	0.07	0.755	0.937
	2	WCDMA Band V	RMC 12.2Kbps	Right Tilted	Reduced Level 1	4233	846.6	22.00	23.00	1.259	0.13	0.827	1.041
	2	WCDMA Band V	RMC 12.2Kbps	Right Cheek	Reduced Level 2	4182	836.4	20.65	21.50	1.216	0.05	0.630	0.766
	2	WCDMA Band V	RMC 12.2Kbps	Right Tilted	Reduced Level 2	4182	836.4	20.65	21.50	1.216	0.06	0.610	0.742
	2	WCDMA Band V	RMC 12.2Kbps	Left Cheek	Reduced Level 2	4182	836.4	20.65	21.50	1.216	0.05	0.370	0.450
	2	WCDMA Band V	RMC 12.2Kbps	Left Tilted	Reduced Level 2	4182	836.4	20.65	21.50	1.216	0.02	0.406	0.494
	2	WCDMA Band V	RMC 12.2Kbps	Right Cheek	Reduced Level 2	4132	826.4	20.55	21.50	1.245	0.03	0.617	0.768
	2	WCDMA Band V	RMC 12.2Kbps	Right Cheek	Reduced Level 2	4233	846.6	20.51	21.50	1.256	0.02	0.656	0.824
	2	WCDMA Band V	RMC 12.2Kbps	Right Cheek	Reduced Level 3	4182	836.4	19.62	20.50	1.225	0.04	0.464	0.568
	2	WCDMA Band V	RMC 12.2Kbps	Right Tilted	Reduced Level 3	4182	836.4	19.62	20.50	1.225	-0.04	0.482	0.590
	2	WCDMA Band V	RMC 12.2Kbps	Left Cheek	Reduced Level 3	4182	836.4	19.62	20.50	1.225	0.02	0.353	0.432
	2	WCDMA Band V	RMC 12.2Kbps	Left Tilted	Reduced Level 3	4182	836.4	19.62	20.50	1.225	0.04	0.295	0.361
	2	WCDMA Band V	RMC 12.2Kbps	Right Tilted	Reduced Level 3	4132	826.4	19.55	20.50	1.245	-0.03	0.475	0.591
	2	WCDMA Band V	RMC 12.2Kbps	Right Tilted	Reduced Level 3	4233	846.6	19.48	20.50	1.265	-0.01	0.494	0.625
	1	WCDMA Band V	RMC 12.2Kbps	Right Cheek	Full	4182	836.4	23.92	24.50	1.143	-0.02	0.099	0.113
	1	WCDMA Band V	RMC 12.2Kbps	Right Tilted	Full	4182	836.4	23.92	24.50	1.143	0.05	0.051	0.058
	1	WCDMA Band V	RMC 12.2Kbps	Left Cheek	Full	4182	836.4	23.92	24.50	1.143	0.07	0.151	0.173
	1	WCDMA Band V	RMC 12.2Kbps	Left Tilted	Full	4182	836.4	23.92	24.50	1.143	0.01	0.069	0.079
	1	WCDMA Band V	RMC 12.2Kbps	Left Cheek	Full	4132	826.4	23.88	24.50	1.153	0.04	0.139	0.160
	1	WCDMA Band V	RMC 12.2Kbps	Left Cheek	Full	4233	846.6	23.89	24.50	1.151	0.01	0.154	0.177



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Plot No.	Antenna	Band	Mode	Test Position	Power Reduction	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	2	WCDMA Band IV	RMC 12.2Kbps	Right Cheek	Reduced Level 1	1513	1752.6	21.08	21.50	1.102	0.02	1.170	1.289
	2	WCDMA Band IV	RMC 12.2Kbps	Right Tilted	Reduced Level 1	1513	1752.6	21.08	21.50	1.102	0.11	1.110	1.223
	2	WCDMA Band IV	RMC 12.2Kbps	Left Cheek	Reduced Level 1	1513	1752.6	21.08	21.50	1.102	0.13	0.407	0.448
	2	WCDMA Band IV	RMC 12.2Kbps	Left Tilted	Reduced Level 1	1513	1752.6	21.08	21.50	1.102	0.09	0.451	0.497
	2	WCDMA Band IV	RMC 12.2Kbps	Right Cheek	Reduced Level 1	1312	1712.4	20.96	21.50	1.132	0.04	1.120	1.268
04	2	WCDMA Band IV	RMC 12.2Kbps	Right Cheek	Reduced Level 1	1413	1732.6	20.98	21.50	1.127	0.17	1.150	1.296
	2	WCDMA Band IV	RMC 12.2Kbps	Right Tilted	Reduced Level 1	1312	1712.4	20.96	21.50	1.132	0.02	1.030	1.166
	2	WCDMA Band IV	RMC 12.2Kbps	Right Tilted	Reduced Level 1	1413	1732.6	20.98	21.50	1.127	0.03	1.080	1.217
	2	WCDMA Band IV	RMC 12.2Kbps	Right Cheek	Reduced Level 2	1513	1752.6	19.09	19.50	1.099	0.08	0.787	0.865
	2	WCDMA Band IV	RMC 12.2Kbps	Right Tilted	Reduced Level 2	1513	1752.6	19.09	19.50	1.099	0.01	0.674	0.741
	2	WCDMA Band IV	RMC 12.2Kbps	Left Cheek	Reduced Level 2	1513	1752.6	19.09	19.50	1.099	0.05	0.316	0.347
	2	WCDMA Band IV	RMC 12.2Kbps	Left Tilted	Reduced Level 2	1513	1752.6	19.09	19.50	1.099	0.04	0.274	0.301
	2	WCDMA Band IV	RMC 12.2Kbps	Right Cheek	Reduced Level 2	1312	1712.4	18.96	19.50	1.132	0.06	0.792	0.897
	2	WCDMA Band IV	RMC 12.2Kbps	Right Cheek	Reduced Level 2	1413	1732.6	18.98	19.50	1.127	0.02	0.824	0.929
	2	WCDMA Band IV	RMC 12.2Kbps	Right Cheek	Reduced Level 3	1513	1752.6	18.58	19.00	1.102	0.07	0.735	0.810
	2	WCDMA Band IV	RMC 12.2Kbps	Right Tilted	Reduced Level 3	1513	1752.6	18.58	19.00	1.102	0.03	0.632	0.696
	2	WCDMA Band IV	RMC 12.2Kbps	Left Cheek	Reduced Level 3	1513	1752.6	18.58	19.00	1.102	0.02	0.241	0.265
	2	WCDMA Band IV	RMC 12.2Kbps	Left Tilted	Reduced Level 3	1513	1752.6	18.58	19.00	1.102	0.01	0.280	0.308
	2	WCDMA Band IV	RMC 12.2Kbps	Right Cheek	Reduced Level 3	1312	1712.4	18.48	19.00	1.127	0.03	0.700	0.789
	2	WCDMA Band IV	RMC 12.2Kbps	Right Cheek	Reduced Level 3	1413	1732.6	18.47	19.00	1.130	0.09	0.760	0.859
	1	WCDMA Band IV	RMC 12.2Kbps	Right Cheek	Full	1513	1752.6	24.63	25.00	1.089	0.01	0.126	0.137
	1	WCDMA Band IV	RMC 12.2Kbps	Right Tilted	Full	1513	1752.6	24.63	25.00	1.089	0.09	0.087	0.095
	1	WCDMA Band IV	RMC 12.2Kbps	Left Cheek	Full	1513	1752.6	24.63	25.00	1.089	0.08	0.095	0.103
	1	WCDMA Band IV	RMC 12.2Kbps	Left Tilted	Full	1513	1752.6	24.63	25.00	1.089	0.04	0.086	0.094
	1	WCDMA Band IV	RMC 12.2Kbps	Right Cheek	Full	1312	1712.4	24.41	25.00	1.146	0.04	0.169	0.194
	1	WCDMA Band IV	RMC 12.2Kbps	Right Cheek	Full	1413	1732.6	24.61	25.00	1.094	0.01	0.151	0.165
05	2	WCDMA Band II	RMC 12.2Kbps	Right Cheek	Reduced Level 1	9262	1852.4	20.15	20.50	1.084	0.07	1.070	1.160
	2	WCDMA Band II	RMC 12.2Kbps	Right Tilted	Reduced Level 1	9262	1852.4	20.15	20.50	1.084	0.03	0.998	1.082
	2	WCDMA Band II	RMC 12.2Kbps	Left Cheek	Reduced Level 1	9262	1852.4	20.15	20.50	1.084	0.01	0.376	0.408
	2	WCDMA Band II	RMC 12.2Kbps	Left Tilted	Reduced Level 1	9262	1852.4	20.15	20.50	1.084	0.04	0.422	0.457
	2	WCDMA Band II	RMC 12.2Kbps	Right Cheek	Reduced Level 1	9400	1880	20.14	20.50	1.086	0.07	0.931	1.011
	2	WCDMA Band II	RMC 12.2Kbps	Right Cheek	Reduced Level 1	9538	1907.6	20.12	20.50	1.091	0.09	0.987	1.077
	2	WCDMA Band II	RMC 12.2Kbps	Right Tilted	Reduced Level 1	9400	1880	20.14	20.50	1.086	0.06	0.937	1.018
	2	WCDMA Band II	RMC 12.2Kbps	Right Tilted	Reduced Level 1	9538	1907.6	20.12	20.50	1.091	0.02	0.986	1.076
	2	WCDMA Band II	RMC 12.2Kbps	Right Cheek	Reduced Level 2	9262	1852.4	18.67	19.00	1.079	0.02	0.659	0.711
	2	WCDMA Band II	RMC 12.2Kbps	Right Tilted	Reduced Level 2	9262	1852.4	18.67	19.00	1.079	0.09	0.513	0.553
	2	WCDMA Band II	RMC 12.2Kbps	Left Cheek	Reduced Level 2	9262	1852.4	18.67	19.00	1.079	0.03	0.206	0.222
	2	WCDMA Band II	RMC 12.2Kbps	Left Tilted	Reduced Level 2	9262	1852.4	18.67	19.00	1.079	0.05	0.196	0.211
	2	WCDMA Band II	RMC 12.2Kbps	Right Cheek	Reduced Level 2	9400	1880	18.61	19.00	1.094	0.08	0.688	0.753
	2	WCDMA Band II	RMC 12.2Kbps	Right Cheek	Reduced Level 2	9538	1907.6	18.66	19.00	1.081	0.06	0.808	0.874
	2	WCDMA Band II	RMC 12.2Kbps	Right Cheek	Reduced Level 3	9262	1852.4	18.19	18.50	1.074	0.04	0.606	0.651
	2	WCDMA Band II	RMC 12.2Kbps	Right Tilted	Reduced Level 3	9262	1852.4	18.19	18.50	1.074	0.08	0.491	0.527
	2	WCDMA Band II	RMC 12.2Kbps	Left Cheek	Reduced Level 3	9262	1852.4	18.19	18.50	1.074	-0.02	0.201	0.216
	2	WCDMA Band II	RMC 12.2Kbps	Left Tilted	Reduced Level 3	9262	1852.4	18.19	18.50	1.074	0.04	0.187	0.201
	2	WCDMA Band II	RMC 12.2Kbps	Right Cheek	Reduced Level 3	9400	1880	18.14	18.50	1.086	0.01	0.634	0.689
	2	WCDMA Band II	RMC 12.2Kbps	Right Cheek	Reduced Level 3	9538	1907.6	18.18	18.50	1.076	0.07	0.729	0.785
	1	WCDMA Band II	RMC 12.2Kbps	Right Cheek	Full	9262	1852.4	24.49	25.00	1.125	0.05	0.118	0.133
	1	WCDMA Band II	RMC 12.2Kbps	Right Tilted	Full	9262	1852.4	24.49	25.00	1.125	-0.03	0.089	0.100
	1	WCDMA Band II	RMC 12.2Kbps	Left Cheek	Full	9262	1852.4	24.49	25.00	1.125	0.01	0.080	0.090
	1	WCDMA Band II	RMC 12.2Kbps	Left Tilted	Full	9262	1852.4	24.49	25.00	1.125	0.06	0.096	0.108
	1	WCDMA Band II	RMC 12.2Kbps	Right Cheek	Full	9400	1880	24.42	25.00	1.143	0.08	0.130	0.149
	1	WCDMA Band II	RMC 12.2Kbps	Right Cheek	Full	9538	1907.6	24.45	25.00	1.135	0.01	0.144	0.163



<CDMA2000 SAR>

Plot No.	Antenna	Band	Mode	Test Position	Power Reduction	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	2	CDMA2000 BC0	RC3+SO55	Right Cheek	Reduced Level 1	384	836.52	22.50	23.00	1.122	0.08	1.040	1.167
	2	CDMA2000 BC0	RC3+SO55	Right Tilted	Reduced Level 1	384	836.52	22.50	23.00	1.122	-0.04	0.804	0.902
	2	CDMA2000 BC0	RC3+SO55	Left Cheek	Reduced Level 1	384	836.52	22.50	23.00	1.122	0.05	0.621	0.697
	2	CDMA2000 BC0	RC3+SO55	Left Tilted	Reduced Level 1	384	836.52	22.50	23.00	1.122	0.07	0.570	0.640
	2	CDMA2000 BC0	RC3+SO55	Right Cheek	Reduced Level 1	1013	824.7	22.41	23.00	1.146	0.05	0.993	1.137
06	2	CDMA2000 BC0	RC3+SO55	Right Cheek	Reduced Level 1	777	848.31	22.43	23.00	1.140	0.01	1.120	1.277
	2	CDMA2000 BC0	RC3+SO55	Right Tilted	Reduced Level 1	1013	824.7	22.41	23.00	1.146	-0.01	0.978	1.120
	2	CDMA2000 BC0	RC3+SO55	Right Tilted	Reduced Level 1	777	848.31	22.43	23.00	1.140	0.08	1.010	1.152
	2	CDMA2000 BC0	RC3+SO55	Right Cheek	Reduced Level 2	384	836.52	20.44	21.00	1.138	0.06	0.641	0.729
	2	CDMA2000 BC0	RC3+SO55	Right Tilted	Reduced Level 2	384	836.52	20.44	21.00	1.138	0.02	0.549	0.625
	2	CDMA2000 BC0	RC3+SO55	Left Cheek	Reduced Level 2	384	836.52	20.44	21.00	1.138	0.01	0.386	0.439
	2	CDMA2000 BC0	RC3+SO55	Left Tilted	Reduced Level 2	384	836.52	20.44	21.00	1.138	0.05	0.344	0.391
	2	CDMA2000 BC0	RC3+SO55	Right Cheek	Reduced Level 2	1013	824.7	20.41	21.00	1.146	0.03	0.648	0.742
	2	CDMA2000 BC0	RC3+SO55	Right Cheek	Reduced Level 2	777	848.31	20.40	21.00	1.148	0.05	0.719	0.826
	2	CDMA2000 BC0	RC3+SO55	Right Cheek	Reduced Level 3	384	836.52	19.95	20.50	1.135	0.07	0.545	0.619
	2	CDMA2000 BC0	RC3+SO55	Right Tilted	Reduced Level 3	384	836.52	19.95	20.50	1.135	0.02	0.489	0.555
	2	CDMA2000 BC0	RC3+SO55	Left Cheek	Reduced Level 3	384	836.52	19.95	20.50	1.135	0.04	0.347	0.394
	2	CDMA2000 BC0	RC3+SO55	Left Tilted	Reduced Level 3	384	836.52	19.95	20.50	1.135	0.01	0.313	0.355
	2	CDMA2000 BC0	RC3+SO55	Right Cheek	Reduced Level 3	1013	824.7	19.91	20.50	1.146	0.05	0.556	0.637
	2	CDMA2000 BC0	RC3+SO55	Right Cheek	Reduced Level 3	777	848.31	19.92	20.50	1.143	0.08	0.616	0.704
	1	CDMA2000 BC0	RC3+SO55	Right Cheek	Full	384	836.52	24.18	24.50	1.076	0.05	0.113	0.122
	1	CDMA2000 BC0	RC3+SO55	Right Tilted	Full	384	836.52	24.18	24.50	1.076	0.08	0.093	0.100
	1	CDMA2000 BC0	RC3+SO55	Left Cheek	Full	384	836.52	24.18	24.50	1.076	0.01	0.177	0.191
	1	CDMA2000 BC0	RC3+SO55	Left Tilted	Full	384	836.52	24.18	24.50	1.076	0.02	0.098	0.105
	1	CDMA2000 BC0	RC3+SO55	Left Cheek	Full	1013	824.7	24.09	24.50	1.099	-0.03	0.174	0.191
	1	CDMA2000 BC0	RC3+SO55	Left Cheek	Full	777	848.31	24.03	24.50	1.114	0.02	0.200	0.223
07	2	CDMA2000 BC1	RC3+SO55	Right Cheek	Reduced Level 1	1175	1908.75	19.75	20.50	1.189	0.02	0.862	1.024
	2	CDMA2000 BC1	RC3+SO55	Right Tilted	Reduced Level 1	1175	1908.75	19.75	20.50	1.189	0.09	0.858	1.020
	2	CDMA2000 BC1	RC3+SO55	Left Cheek	Reduced Level 1	1175	1908.75	19.75	20.50	1.189	0.05	0.285	0.339
	2	CDMA2000 BC1	RC3+SO55	Left Tilted	Reduced Level 1	1175	1908.75	19.75	20.50	1.189	0.04	0.376	0.447
	2	CDMA2000 BC1	RC3+SO55	Right Cheek	Reduced Level 1	25	1851.25	19.74	20.50	1.191	0.08	0.831	0.990
	2	CDMA2000 BC1	RC3+SO55	Right Cheek	Reduced Level 1	600	1880	19.60	20.50	1.230	0.04	0.729	0.897
	2	CDMA2000 BC1	RC3+SO55	Right Tilted	Reduced Level 1	25	1851.25	19.74	20.50	1.191	0.04	0.844	1.005
	2	CDMA2000 BC1	RC3+SO55	Right Tilted	Reduced Level 1	600	1880	19.60	20.50	1.230	0.08	0.812	0.999
	2	CDMA2000 BC1	RC3+SO55	Right Cheek	Reduced Level 2	1175	1908.75	18.25	19.00	1.189	0.05	0.593	0.705
	2	CDMA2000 BC1	RC3+SO55	Right Tilted	Reduced Level 2	1175	1908.75	18.25	19.00	1.189	0.06	0.605	0.719
	2	CDMA2000 BC1	RC3+SO55	Left Cheek	Reduced Level 2	1175	1908.75	18.25	19.00	1.189	0.09	0.226	0.269
	2	CDMA2000 BC1	RC3+SO55	Left Tilted	Reduced Level 2	1175	1908.75	18.25	19.00	1.189	0.06	0.274	0.326
	2	CDMA2000 BC1	RC3+SO55	Right Tilted	Reduced Level 2	25	1851.25	18.24	19.00	1.191	0.02	0.643	0.766
	2	CDMA2000 BC1	RC3+SO55	Right Tilted	Reduced Level 2	600	1880	18.11	19.00	1.227	0.09	0.678	0.832
	1	CDMA2000 BC1	RC3+SO55	Right Cheek	Full	1175	1908.75	23.97	24.50	1.130	0.03	0.142	0.160
	1	CDMA2000 BC1	RC3+SO55	Right Tilted	Full	1175	1908.75	23.97	24.50	1.130	0.01	0.082	0.093
	1	CDMA2000 BC1	RC3+SO55	Left Cheek	Full	1175	1908.75	23.97	24.50	1.130	0.05	0.092	0.104
	1	CDMA2000 BC1	RC3+SO55	Left Tilted	Full	1175	1908.75	23.97	24.50	1.130	0.02	0.105	0.119
	1	CDMA2000 BC1	RC3+SO55	Right Cheek	Full	25	1851.25	23.78	24.50	1.180	0.03	0.106	0.125
	1	CDMA2000 BC1	RC3+SO55	Right Cheek	Full	600	1880	23.85	24.50	1.161	0.05	0.123	0.143



<FDD LTE SAR>

Plot No.	Antenna	Band	BW (MHz)	Modulation	RB Size	RB Offset	Test Position	Power Reduction	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
08	2	LTE Band 71	20M	QPSK	1	0	Right Cheek	Full	133322	683	24.49	24.80	1.074	0.09	1.150	1.235
	2	LTE Band 71	20M	QPSK	1	0	Right Tilted	Full	133322	683	24.49	24.80	1.074	0.04	1.170	1.257
	2	LTE Band 71	20M	QPSK	1	0	Left Cheek	Full	133322	683	24.49	24.80	1.074	0.08	0.737	0.792
	2	LTE Band 71	20M	QPSK	1	0	Left Tilted	Full	133322	683	24.49	24.80	1.074	0.05	0.611	0.656
	2	LTE Band 71	20M	QPSK	50	0	Right Cheek	Full	133322	683	23.44	23.80	1.086	0.01	0.955	1.038
	2	LTE Band 71	20M	QPSK	50	0	Right Tilted	Full	133322	683	23.44	23.80	1.086	0.05	0.873	0.948
	2	LTE Band 71	20M	QPSK	50	0	Left Cheek	Full	133322	683	23.44	23.80	1.086	0.02	0.605	0.657
	2	LTE Band 71	20M	QPSK	50	0	Left Tilted	Full	133322	683	23.44	23.80	1.086	0.05	0.640	0.695
	2	LTE Band 71	20M	QPSK	100	0	Right Cheek	Full	133322	683	23.38	23.80	1.102	0.07	0.870	0.958
	2	LTE Band 71	20M	QPSK	100	0	Right Tilted	Full	133322	683	23.38	23.80	1.102	-0.03	0.806	0.888
	2	LTE Band 71	20M	QPSK	1	0	Right Cheek	Reduced Level 2	133322	683	22.18	22.80	1.153	0.05	0.680	0.784
	2	LTE Band 71	20M	QPSK	1	0	Right Tilted	Reduced Level 2	133322	683	22.18	22.80	1.153	0.02	0.639	0.737
	2	LTE Band 71	20M	QPSK	1	0	Left Cheek	Reduced Level 2	133322	683	22.18	22.80	1.153	0.07	0.432	0.498
	2	LTE Band 71	20M	QPSK	1	0	Left Tilted	Reduced Level 2	133322	683	22.18	22.80	1.153	0.04	0.371	0.428
	2	LTE Band 71	20M	QPSK	50	0	Right Cheek	Reduced Level 2	133322	683	22.12	22.80	1.169	0.02	0.705	0.824
	2	LTE Band 71	20M	QPSK	50	0	Right Tilted	Reduced Level 2	133322	683	22.12	22.80	1.169	0.01	0.662	0.774
	2	LTE Band 71	20M	QPSK	50	0	Left Cheek	Reduced Level 2	133322	683	22.12	22.80	1.169	0.08	0.454	0.531
	2	LTE Band 71	20M	QPSK	50	0	Left Tilted	Reduced Level 2	133322	683	22.12	22.80	1.169	0.01	0.361	0.422
	2	LTE Band 71	20M	QPSK	100	0	Right Cheek	Reduced Level 2	133322	683	22.09	22.80	1.178	0.03	0.692	0.815
	2	LTE Band 71	20M	QPSK	1	0	Right Cheek	Reduced Level 3	133322	683	21.62	22.30	1.169	0.03	0.595	0.696
	2	LTE Band 71	20M	QPSK	1	0	Right Tilted	Reduced Level 3	133322	683	21.62	22.30	1.169	0.05	0.558	0.653
	2	LTE Band 71	20M	QPSK	1	0	Left Cheek	Reduced Level 3	133322	683	21.62	22.30	1.169	0.01	0.371	0.434
	2	LTE Band 71	20M	QPSK	1	0	Left Tilted	Reduced Level 3	133322	683	21.62	22.30	1.169	0.07	0.307	0.359
	2	LTE Band 71	20M	QPSK	50	0	Right Cheek	Reduced Level 3	133322	683	21.63	22.30	1.167	0.05	0.621	0.725
	2	LTE Band 71	20M	QPSK	50	0	Right Tilted	Reduced Level 3	133322	683	21.63	22.30	1.167	0.05	0.586	0.684
	2	LTE Band 71	20M	QPSK	50	0	Left Cheek	Reduced Level 3	133322	683	21.63	22.30	1.167	0.02	0.391	0.456
	2	LTE Band 71	20M	QPSK	50	0	Left Tilted	Reduced Level 3	133322	683	21.63	22.30	1.167	0.09	0.326	0.380
	1	LTE Band 71	20M	QPSK	1	0	Right Cheek	Full	133322	683	24.49	24.80	1.074	0.01	0.055	0.059
	1	LTE Band 71	20M	QPSK	1	0	Right Tilted	Full	133322	683	24.49	24.80	1.074	0.06	0.010	0.011
	1	LTE Band 71	20M	QPSK	1	0	Left Cheek	Full	133322	683	24.49	24.80	1.074	0.03	0.083	0.089
	1	LTE Band 71	20M	QPSK	1	0	Left Tilted	Full	133322	683	24.49	24.80	1.074	0.01	0.031	0.033
	1	LTE Band 71	20M	QPSK	50	0	Right Cheek	Full	133322	683	23.44	23.80	1.086	0.05	0.046	0.050
	1	LTE Band 71	20M	QPSK	50	0	Right Tilted	Full	133322	683	23.44	23.80	1.086	0.02	0.008	0.009
	1	LTE Band 71	20M	QPSK	50	0	Left Cheek	Full	133322	683	23.44	23.80	1.086	0.04	0.070	0.076
	1	LTE Band 71	20M	QPSK	50	0	Left Tilted	Full	133322	683	23.44	23.80	1.086	0.08	0.025	0.027



FCC SAR Test Report

Report No. : FA871004-01

Plot No.	Antenna	Band	BW (MHz)	Modulation	RB Size	RB Offset	Test Position	Power Reduction	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
09	2	LTE Band 12	10M	QPSK	1	0	Right Cheek	Full	23095	707.5	23.95	24.50	1.135	0.09	0.958	1.087
	2	LTE Band 12	10M	QPSK	1	0	Right Tilted	Full	23095	707.5	23.95	24.50	1.135	0.04	0.941	1.068
	2	LTE Band 12	10M	QPSK	1	0	Left Cheek	Full	23095	707.5	23.95	24.50	1.135	0.08	0.667	0.757
	2	LTE Band 12	10M	QPSK	1	0	Left Tilted	Full	23095	707.5	23.95	24.50	1.135	0.02	0.587	0.666
	2	LTE Band 12	10M	QPSK	25	12	Right Cheek	Full	23095	707.5	23.03	23.50	1.114	0.06	0.813	0.906
	2	LTE Band 12	10M	QPSK	25	12	Right Tilted	Full	23095	707.5	23.03	23.50	1.114	0.08	0.783	0.872
	2	LTE Band 12	10M	QPSK	25	12	Left Cheek	Full	23095	707.5	23.03	23.50	1.114	0.07	0.539	0.601
	2	LTE Band 12	10M	QPSK	25	12	Left Tilted	Full	23095	707.5	23.03	23.50	1.114	0.01	0.466	0.519
	2	LTE Band 12	10M	QPSK	50	0	Right Cheek	Full	23095	707.5	23.01	23.50	1.119	0.05	0.807	0.903
	2	LTE Band 12	10M	QPSK	50	0	Right Tilted	Full	23095	707.5	23.01	23.50	1.119	0.01	0.808	0.905
	2	LTE Band 12	10M	QPSK	1	0	Right Cheek	Reduced Level 2	23095	707.5	21.88	22.50	1.153	0.08	0.852	0.983
	2	LTE Band 12	10M	QPSK	1	0	Right Tilted	Reduced Level 2	23095	707.5	21.88	22.50	1.153	0.02	0.576	0.664
	2	LTE Band 12	10M	QPSK	1	0	Left Cheek	Reduced Level 2	23095	707.5	21.88	22.50	1.153	-0.05	0.422	0.487
	2	LTE Band 12	10M	QPSK	1	0	Left Tilted	Reduced Level 2	23095	707.5	21.88	22.50	1.153	0.05	0.364	0.420
	2	LTE Band 12	10M	QPSK	25	12	Right Cheek	Reduced Level 2	23095	707.5	21.91	22.50	1.146	0.03	0.822	0.942
	2	LTE Band 12	10M	QPSK	25	12	Right Tilted	Reduced Level 2	23095	707.5	21.91	22.50	1.146	0.07	0.547	0.627
	2	LTE Band 12	10M	QPSK	25	12	Left Cheek	Reduced Level 2	23095	707.5	21.91	22.50	1.146	0.04	0.396	0.454
	2	LTE Band 12	10M	QPSK	25	12	Left Tilted	Reduced Level 2	23095	707.5	21.91	22.50	1.146	0.05	0.353	0.404
	2	LTE Band 12	10M	QPSK	50	0	Right Cheek	Reduced Level 2	23095	707.5	21.67	22.50	1.211	0.06	0.672	0.814
	2	LTE Band 12	10M	QPSK	1	0	Right Cheek	Reduced Level 3	23095	707.5	21.37	22.00	1.156	0.04	0.597	0.690
	2	LTE Band 12	10M	QPSK	1	0	Right Tilted	Reduced Level 3	23095	707.5	21.37	22.00	1.156	0.05	0.536	0.620
	2	LTE Band 12	10M	QPSK	1	0	Left Cheek	Reduced Level 3	23095	707.5	21.37	22.00	1.156	0.01	0.391	0.452
	2	LTE Band 12	10M	QPSK	1	0	Left Tilted	Reduced Level 3	23095	707.5	21.37	22.00	1.156	0.08	0.389	0.450
	2	LTE Band 12	10M	QPSK	25	12	Right Cheek	Reduced Level 3	23095	707.5	21.17	22.00	1.211	-0.03	0.548	0.663
	2	LTE Band 12	10M	QPSK	25	12	Right Tilted	Reduced Level 3	23095	707.5	21.17	22.00	1.211	0.03	0.537	0.650
	2	LTE Band 12	10M	QPSK	25	12	Left Cheek	Reduced Level 3	23095	707.5	21.17	22.00	1.211	0.04	0.386	0.467
	2	LTE Band 12	10M	QPSK	25	12	Left Tilted	Reduced Level 3	23095	707.5	21.17	22.00	1.211	0.01	0.417	0.505
	1	LTE Band 12	10M	QPSK	1	0	Right Cheek	Full	23095	707.5	23.95	24.50	1.135	-0.05	0.078	0.088
	1	LTE Band 12	10M	QPSK	1	0	Right Tilted	Full	23095	707.5	23.95	24.50	1.135	-0.03	0.044	0.050
	1	LTE Band 12	10M	QPSK	1	0	Left Cheek	Full	23095	707.5	23.95	24.50	1.135	0.02	0.099	0.112
	1	LTE Band 12	10M	QPSK	1	0	Left Tilted	Full	23095	707.5	23.95	24.50	1.135	0.04	0.046	0.052
	1	LTE Band 12	10M	QPSK	25	12	Right Cheek	Full	23095	707.5	23.03	23.50	1.114	0.05	0.061	0.068
	1	LTE Band 12	10M	QPSK	25	12	Right Tilted	Full	23095	707.5	23.03	23.50	1.114	0.08	0.036	0.041
	1	LTE Band 12	10M	QPSK	25	12	Left Cheek	Full	23095	707.5	23.03	23.50	1.114	-0.1	0.078	0.086
	1	LTE Band 12	10M	QPSK	25	12	Left Tilted	Full	23095	707.5	23.03	23.50	1.114	0.01	0.038	0.043



FCC SAR Test Report

Report No. : FA871004-01

Plot No.	Antenna	Band	BW (MHz)	Modulation	RB Size	RB Offset	Test Position	Power Reduction	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
10	2	LTE Band 13	10M	QPSK	1	49	Right Cheek	Reduced Level 1	23230	782	23.17	24.00	1.211	0.07	0.953	1.154
	2	LTE Band 13	10M	QPSK	1	49	Right Tilted	Reduced Level 1	23230	782	23.17	24.00	1.211	0.09	0.788	0.954
	2	LTE Band 13	10M	QPSK	1	49	Left Cheek	Reduced Level 1	23230	782	23.17	24.00	1.211	0.09	0.571	0.691
	2	LTE Band 13	10M	QPSK	1	49	Left Tilted	Reduced Level 1	23230	782	23.17	24.00	1.211	0.04	0.487	0.590
	2	LTE Band 13	10M	QPSK	25	12	Right Cheek	Reduced Level 1	23230	782	22.78	23.00	1.052	0.01	0.876	0.922
	2	LTE Band 13	10M	QPSK	25	12	Right Tilted	Reduced Level 1	23230	782	22.78	23.00	1.052	0.08	0.707	0.744
	2	LTE Band 13	10M	QPSK	25	12	Left Cheek	Reduced Level 1	23230	782	22.78	23.00	1.052	0.04	0.507	0.533
	2	LTE Band 13	10M	QPSK	25	12	Left Tilted	Reduced Level 1	23230	782	22.78	23.00	1.052	0.03	0.432	0.454
	2	LTE Band 13	10M	QPSK	50	0	Right Cheek	Reduced Level 1	23230	782	22.76	23.00	1.057	0.01	0.813	0.859
	2	LTE Band 13	10M	QPSK	50	0	Right Tilted	Reduced Level 1	23230	782	22.76	23.00	1.057	0.04	0.698	0.738
	2	LTE Band 13	10M	QPSK	1	49	Right Cheek	Reduced Level 2	23230	782	21.98	22.50	1.127	0.01	0.922	1.039
	2	LTE Band 13	10M	QPSK	1	49	Right Tilted	Reduced Level 2	23230	782	21.98	22.50	1.127	0.02	0.723	0.815
	2	LTE Band 13	10M	QPSK	1	49	Left Cheek	Reduced Level 2	23230	782	21.98	22.50	1.127	0.05	0.480	0.541
	2	LTE Band 13	10M	QPSK	1	49	Left Tilted	Reduced Level 2	23230	782	21.98	22.50	1.127	0.04	0.404	0.455
	2	LTE Band 13	10M	QPSK	25	12	Right Cheek	Reduced Level 2	23230	782	21.78	22.50	1.180	0.02	0.887	1.047
	2	LTE Band 13	10M	QPSK	25	12	Right Tilted	Reduced Level 2	23230	782	21.78	22.50	1.180	0.05	0.707	0.834
	2	LTE Band 13	10M	QPSK	25	12	Left Cheek	Reduced Level 2	23230	782	21.78	22.50	1.180	0.07	0.460	0.543
	2	LTE Band 13	10M	QPSK	25	12	Left Tilted	Reduced Level 2	23230	782	21.78	22.50	1.180	0.05	0.366	0.432
	2	LTE Band 13	10M	QPSK	50	0	Right Cheek	Reduced Level 2	23230	782	21.74	22.50	1.191	0.03	0.833	0.992
	2	LTE Band 13	10M	QPSK	50	0	Right Tilted	Reduced Level 2	23230	782	21.74	22.50	1.191	0.04	0.776	0.924
	2	LTE Band 13	10M	QPSK	1	49	Right Cheek	Reduced Level 3	23230	782	21.35	22.00	1.161	0.06	0.746	0.866
	2	LTE Band 13	10M	QPSK	1	49	Right Tilted	Reduced Level 3	23230	782	21.35	22.00	1.161	0.07	0.628	0.729
	2	LTE Band 13	10M	QPSK	1	49	Left Cheek	Reduced Level 3	23230	782	21.35	22.00	1.161	0.07	0.381	0.443
	2	LTE Band 13	10M	QPSK	1	49	Left Tilted	Reduced Level 3	23230	782	21.35	22.00	1.161	0.01	0.378	0.439
	2	LTE Band 13	10M	QPSK	25	12	Right Cheek	Reduced Level 3	23230	782	21.24	22.00	1.191	0.02	0.745	0.887
	2	LTE Band 13	10M	QPSK	25	12	Right Tilted	Reduced Level 3	23230	782	21.24	22.00	1.191	0.07	0.613	0.730
	2	LTE Band 13	10M	QPSK	25	12	Left Cheek	Reduced Level 3	23230	782	21.24	22.00	1.191	0.01	0.375	0.447
	2	LTE Band 13	10M	QPSK	25	12	Left Tilted	Reduced Level 3	23230	782	21.24	22.00	1.191	0.04	0.385	0.459
	2	LTE Band 13	10M	QPSK	50	0	Right Cheek	Reduced Level 3	23230	782	21.19	22.00	1.205	-0.02	0.721	0.869
	1	LTE Band 13	10M	QPSK	1	49	Right Cheek	Full	23230	782	23.99	24.50	1.125	-0.03	0.082	0.092
	1	LTE Band 13	10M	QPSK	1	49	Right Tilted	Full	23230	782	23.99	24.50	1.125	0.05	0.044	0.049
	1	LTE Band 13	10M	QPSK	1	49	Left Cheek	Full	23230	782	23.99	24.50	1.125	0.03	0.122	0.137
	1	LTE Band 13	10M	QPSK	1	49	Left Tilted	Full	23230	782	23.99	24.50	1.125	-0.11	0.068	0.076
	1	LTE Band 13	10M	QPSK	25	12	Right Cheek	Full	23230	782	23.02	23.50	1.117	0.04	0.069	0.077
	1	LTE Band 13	10M	QPSK	25	12	Right Tilted	Full	23230	782	23.02	23.50	1.117	0.07	0.034	0.038
	1	LTE Band 13	10M	QPSK	25	12	Left Cheek	Full	23230	782	23.02	23.50	1.117	0.03	0.097	0.108
	1	LTE Band 13	10M	QPSK	25	12	Left Tilted	Full	23230	782	23.02	23.50	1.117	-0.03	0.057	0.064



Plot No.	Antenna	Band	BW (MHz)	Modulation	RB Size	RB Offset	Test Position	Power Reduction	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	2	LTE Band 5	10M	QPSK	1	0	Right Cheek	Reduced Level 1	20525	836.5	23.3	24.00	1.175	0.02	0.752	0.884
	2	LTE Band 5	10M	QPSK	1	0	Right Tilted	Reduced Level 1	20525	836.5	23.3	24.00	1.175	0.03	1.030	1.210
	2	LTE Band 5	10M	QPSK	1	0	Left Cheek	Reduced Level 1	20525	836.5	23.3	24.00	1.175	-0.03	0.697	0.819
	2	LTE Band 5	10M	QPSK	1	0	Left Tilted	Reduced Level 1	20525	836.5	23.3	24.00	1.175	0.02	0.637	0.748
	2	LTE Band 5	10M	QPSK	25	12	Right Cheek	Reduced Level 1	20525	836.5	22.89	23.50	1.151	0.03	0.735	0.846
11	2	LTE Band 5	10M	QPSK	25	12	Right Tilted	Reduced Level 1	20525	836.5	22.89	23.50	1.151	0.01	1.090	1.254
	2	LTE Band 5	10M	QPSK	25	12	Left Cheek	Reduced Level 1	20525	836.5	22.89	23.50	1.151	-0.02	0.648	0.746
	2	LTE Band 5	10M	QPSK	25	12	Left Tilted	Reduced Level 1	20525	836.5	22.89	23.50	1.151	0.07	0.602	0.693
	2	LTE Band 5	10M	QPSK	50	0	Right Cheek	Reduced Level 1	20525	836.5	22.8	23.50	1.175	0.11	0.935	1.099
	2	LTE Band 5	10M	QPSK	50	0	Right Tilted	Reduced Level 1	20525	836.5	22.8	23.50	1.175	0.02	0.984	1.156
	2	LTE Band 5	10M	QPSK	50	0	Left Cheek	Reduced Level 1	20525	836.5	22.8	23.50	1.175	0.03	0.643	0.755
	2	LTE Band 5	10M	QPSK	1	0	Right Cheek	Reduced Level 2	20525	836.5	22.08	22.50	1.102	-0.03	0.771	0.849
	2	LTE Band 5	10M	QPSK	1	0	Right Tilted	Reduced Level 2	20525	836.5	22.08	22.50	1.102	0.02	0.701	0.772
	2	LTE Band 5	10M	QPSK	1	0	Left Cheek	Reduced Level 2	20525	836.5	22.08	22.50	1.102	0.04	0.445	0.490
	2	LTE Band 5	10M	QPSK	1	0	Left Tilted	Reduced Level 2	20525	836.5	22.08	22.50	1.102	0.01	0.408	0.449
	2	LTE Band 5	10M	QPSK	25	12	Right Cheek	Reduced Level 2	20525	836.5	22.05	22.50	1.109	-0.03	0.802	0.890
	2	LTE Band 5	10M	QPSK	25	12	Right Tilted	Reduced Level 2	20525	836.5	22.05	22.50	1.109	0.06	0.737	0.817
	2	LTE Band 5	10M	QPSK	25	12	Left Cheek	Reduced Level 2	20525	836.5	22.05	22.50	1.109	0.01	0.387	0.429
	2	LTE Band 5	10M	QPSK	25	12	Left Tilted	Reduced Level 2	20525	836.5	22.05	22.50	1.109	0.07	0.358	0.397
	2	LTE Band 5	10M	QPSK	50	0	Right Cheek	Reduced Level 2	20525	836.5	21.99	22.50	1.125	0.02	0.825	0.928
	2	LTE Band 5	10M	QPSK	50	0	Right Tilted	Reduced Level 2	20525	836.5	21.99	22.50	1.125	0.09	0.754	0.848
	2	LTE Band 5	10M	QPSK	1	0	Right Cheek	Reduced Level 3	20525	836.5	20.93	21.50	1.140	0.02	0.631	0.719
	2	LTE Band 5	10M	QPSK	1	0	Right Tilted	Reduced Level 3	20525	836.5	20.93	21.50	1.140	0.05	0.571	0.651
	2	LTE Band 5	10M	QPSK	1	0	Left Cheek	Reduced Level 3	20525	836.5	20.93	21.50	1.140	0.04	0.369	0.421
	2	LTE Band 5	10M	QPSK	1	0	Left Tilted	Reduced Level 3	20525	836.5	20.93	21.50	1.140	0.01	0.407	0.464
	2	LTE Band 5	10M	QPSK	25	12	Right Cheek	Reduced Level 3	20525	836.5	20.88	21.50	1.153	0.08	0.658	0.759
	2	LTE Band 5	10M	QPSK	25	12	Right Tilted	Reduced Level 3	20525	836.5	20.88	21.50	1.153	0.04	0.584	0.674
	2	LTE Band 5	10M	QPSK	25	12	Left Cheek	Reduced Level 3	20525	836.5	20.88	21.50	1.153	0.07	0.395	0.456
	2	LTE Band 5	10M	QPSK	25	12	Left Tilted	Reduced Level 3	20525	836.5	20.88	21.50	1.153	-0.02	0.419	0.483
	1	LTE Band 5	10M	QPSK	1	0	Right Cheek	Full	20525	836.5	24.11	24.50	1.094	0.11	0.107	0.117
	1	LTE Band 5	10M	QPSK	1	0	Right Tilted	Full	20525	836.5	24.11	24.50	1.094	0.07	0.070	0.076
	1	LTE Band 5	10M	QPSK	1	0	Left Cheek	Full	20525	836.5	24.11	24.50	1.094	-0.02	0.145	0.159
	1	LTE Band 5	10M	QPSK	1	0	Left Tilted	Full	20525	836.5	24.11	24.50	1.094	0.01	0.063	0.069
	1	LTE Band 5	10M	QPSK	25	12	Right Cheek	Full	20525	836.5	23.2	23.50	1.072	0.02	0.086	0.092
	1	LTE Band 5	10M	QPSK	25	12	Right Tilted	Full	20525	836.5	23.2	23.50	1.072	0.12	0.058	0.062
	1	LTE Band 5	10M	QPSK	25	12	Left Cheek	Full	20525	836.5	23.2	23.50	1.072	0.08	0.123	0.132
	1	LTE Band 5	10M	QPSK	25	12	Left Tilted	Full	20525	836.5	23.2	23.50	1.072	0.02	0.050	0.053



Plot No.	Antenna	Band	BW (MHz)	Modulation	RB Size	RB Offset	Test Position	Power Reduction	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
12	2	LTE Band 26	15M	QPSK	1	0	Right Cheek	Reduced Level 1	26965	841.5	22.86	23.50	1.159	-0.16	1.090	1.263
	2	LTE Band 26	15M	QPSK	1	0	Right Tilted	Reduced Level 1	26965	841.5	22.86	23.50	1.159	-0.02	1.050	1.217
	2	LTE Band 26	15M	QPSK	1	0	Left Cheek	Reduced Level 1	26965	841.5	22.86	23.50	1.159	0.06	0.714	0.827
	2	LTE Band 26	15M	QPSK	1	0	Left Tilted	Reduced Level 1	26965	841.5	22.86	23.50	1.159	-0.03	0.436	0.505
	2	LTE Band 26	15M	QPSK	1	0	Right Cheek	Reduced Level 1	26765	821.5	22.77	23.50	1.183	0.03	0.973	1.151
	2	LTE Band 26	15M	QPSK	1	0	Right Cheek	Reduced Level 1	26865	831.5	22.85	23.50	1.161	0.06	0.739	0.858
	2	LTE Band 26	15M	QPSK	1	0	Right Tilted	Reduced Level 1	26765	821.5	22.77	23.50	1.183	0.02	0.900	1.065
	2	LTE Band 26	15M	QPSK	1	0	Right Tilted	Reduced Level 1	26865	831.5	22.85	23.50	1.161	0.09	0.711	0.826
	2	LTE Band 26	15M	QPSK	1	0	Left Cheek	Reduced Level 1	26765	821.5	22.77	23.50	1.183	0.08	0.694	0.821
	2	LTE Band 26	15M	QPSK	1	0	Left Cheek	Reduced Level 1	26865	831.5	22.85	23.50	1.161	0.08	0.705	0.819
	2	LTE Band 26	15M	QPSK	36	0	Right Cheek	Reduced Level 1	26965	841.5	22.43	23.00	1.140	0.05	0.955	1.089
	2	LTE Band 26	15M	QPSK	36	0	Right Tilted	Reduced Level 1	26965	841.5	22.43	23.00	1.140	0.06	0.882	1.006
	2	LTE Band 26	15M	QPSK	36	0	Left Cheek	Reduced Level 1	26965	841.5	22.43	23.00	1.140	0.01	0.662	0.755
	2	LTE Band 26	15M	QPSK	36	0	Left Tilted	Reduced Level 1	26965	841.5	22.43	23.00	1.140	-0.05	0.416	0.474
	2	LTE Band 26	15M	QPSK	36	0	Right Cheek	Reduced Level 1	26765	821.5	22.4	23.00	1.148	0.08	1.060	1.217
	2	LTE Band 26	15M	QPSK	36	0	Right Cheek	Reduced Level 1	26865	831.5	22.34	23.00	1.164	0.04	1.010	1.176
	2	LTE Band 26	15M	QPSK	36	0	Right Tilted	Reduced Level 1	26765	821.5	22.4	23.00	1.148	0.06	0.839	0.963
	2	LTE Band 26	15M	QPSK	36	0	Right Tilted	Reduced Level 1	26865	831.5	22.34	23.00	1.164	-0.02	0.592	0.689
	2	LTE Band 26	15M	QPSK	75	0	Right Cheek	Reduced Level 1	26965	841.5	22.33	23.00	1.167	0.08	0.862	1.006
	2	LTE Band 26	15M	QPSK	75	0	Right Tilted	Reduced Level 1	26965	841.5	22.33	23.00	1.167	0.06	0.865	1.009
	2	LTE Band 26	15M	QPSK	75	0	Left Cheek	Reduced Level 1	26965	841.5	22.33	23.00	1.167	0.04	0.653	0.762
	2	LTE Band 26	15M	QPSK	1	0	Right Cheek	Reduced Level 2	26965	841.5	20.59	21.00	1.099	0.03	0.668	0.734
	2	LTE Band 26	15M	QPSK	1	0	Right Tilted	Reduced Level 2	26965	841.5	20.59	21.00	1.099	0.08	0.466	0.512
	2	LTE Band 26	15M	QPSK	1	0	Left Cheek	Reduced Level 2	26965	841.5	20.59	21.00	1.099	0.02	0.227	0.249
	2	LTE Band 26	15M	QPSK	1	0	Left Tilted	Reduced Level 2	26965	841.5	20.59	21.00	1.099	0.06	0.199	0.219
	2	LTE Band 26	15M	QPSK	36	0	Right Cheek	Reduced Level 2	26965	841.5	20.45	21.00	1.135	0.07	0.720	0.817
	2	LTE Band 26	15M	QPSK	36	0	Right Tilted	Reduced Level 2	26965	841.5	20.45	21.00	1.135	0.08	0.507	0.575
	2	LTE Band 26	15M	QPSK	36	0	Left Cheek	Reduced Level 2	26965	841.5	20.45	21.00	1.135	0.01	0.243	0.276
	2	LTE Band 26	15M	QPSK	36	0	Left Tilted	Reduced Level 2	26965	841.5	20.45	21.00	1.135	0.01	0.209	0.237
	2	LTE Band 26	15M	QPSK	36	0	Right Cheek	Reduced Level 2	26765	821.5	20.41	21.00	1.146	0.16	0.536	0.614
	2	LTE Band 26	15M	QPSK	36	0	Right Cheek	Reduced Level 2	26865	831.5	20.32	21.00	1.169	0.04	0.539	0.630
	2	LTE Band 26	15M	QPSK	75	0	Right Cheek	Reduced Level 2	26965	841.5	20.27	21.00	1.183	0.08	0.515	0.609
	1	LTE Band 26	15M	QPSK	1	0	Right Cheek	Full	26965	841.5	23.67	24.00	1.079	-0.03	0.093	0.100
	1	LTE Band 26	15M	QPSK	1	0	Right Tilted	Full	26965	841.5	23.67	24.00	1.079	0.05	0.081	0.087
	1	LTE Band 26	15M	QPSK	1	0	Left Cheek	Full	26965	841.5	23.67	24.00	1.079	0.04	0.146	0.158
	1	LTE Band 26	15M	QPSK	1	0	Left Tilted	Full	26965	841.5	23.67	24.00	1.079	0.06	0.085	0.092
	1	LTE Band 26	15M	QPSK	1	0	Left Cheek	Full	26765	821.5	23.43	24.00	1.140	0.08	0.140	0.160
	1	LTE Band 26	15M	QPSK	1	0	Left Cheek	Full	26865	831.5	23.53	24.00	1.114	-0.03	0.145	0.162
	1	LTE Band 26	15M	QPSK	36	0	Right Cheek	Full	26965	841.5	22.75	23.00	1.059	0.05	0.074	0.078
	1	LTE Band 26	15M	QPSK	36	0	Right Tilted	Full	26965	841.5	22.75	23.00	1.059	0.01	0.059	0.062
	1	LTE Band 26	15M	QPSK	36	0	Left Cheek	Full	26965	841.5	22.75	23.00	1.059	0.15	0.116	0.123
	1	LTE Band 26	15M	QPSK	36	0	Left Tilted	Full	26965	841.5	22.75	23.00	1.059	0.04	0.067	0.071



Plot No.	Antenna	Band	BW (MHz)	Modulation	RB Size	RB Offset	Test Position	Power Reduction	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	2	LTE Band 66	20M	QPSK	1	0	Right Cheek	Reduced Level 1	132322	1745	20.44	21.00	1.138	0.12	1.040	1.183
	2	LTE Band 66	20M	QPSK	1	0	Right Tilted	Reduced Level 1	132322	1745	20.44	21.00	1.138	0.08	1.030	1.172
	2	LTE Band 66	20M	QPSK	1	0	Left Cheek	Reduced Level 1	132322	1745	20.44	21.00	1.138	0.16	0.380	0.432
	2	LTE Band 66	20M	QPSK	1	0	Left Tilted	Reduced Level 1	132322	1745	20.44	21.00	1.138	0.09	0.376	0.428
	2	LTE Band 66	20M	QPSK	1	0	Right Cheek	Reduced Level 1	132072	1720	20.32	21.00	1.169	0.11	0.870	1.017
	2	LTE Band 66	20M	QPSK	1	0	Right Cheek	Reduced Level 1	132572	1770	20.40	21.00	1.148	0.14	0.895	1.028
	2	LTE Band 66	20M	QPSK	1	0	Right Tilted	Reduced Level 1	132072	1720	20.32	21.00	1.169	0.12	0.879	1.028
	2	LTE Band 66	20M	QPSK	1	0	Right Tilted	Reduced Level 1	132572	1770	20.40	21.00	1.148	0.13	0.962	1.105
	2	LTE Band 66	20M	QPSK	50	0	Right Cheek	Reduced Level 1	132322	1745	20.42	21.00	1.143	0.18	1.020	1.166
	2	LTE Band 66	20M	QPSK	50	0	Right Tilted	Reduced Level 1	132322	1745	20.42	21.00	1.143	0.05	1.010	1.154
	2	LTE Band 66	20M	QPSK	50	0	Left Cheek	Reduced Level 1	132322	1745	20.42	21.00	1.143	0.07	0.383	0.438
	2	LTE Band 66	20M	QPSK	50	0	Left Tilted	Reduced Level 1	132322	1745	20.42	21.00	1.143	0.09	0.375	0.429
	2	LTE Band 66	20M	QPSK	50	0	Right Cheek	Reduced Level 1	132072	1720	20.27	21.00	1.183	0.06	0.871	1.030
	2	LTE Band 66	20M	QPSK	50	0	Right Cheek	Reduced Level 1	132572	1770	20.33	21.00	1.167	0.02	0.866	1.010
	2	LTE Band 66	20M	QPSK	50	0	Right Tilted	Reduced Level 1	132072	1720	20.27	21.00	1.183	0.03	0.906	1.072
	2	LTE Band 66	20M	QPSK	50	0	Right Tilted	Reduced Level 1	132572	1770	20.33	21.00	1.167	0.05	0.958	1.118
13	2	LTE Band 66	20M	QPSK	100	0	Right Cheek	Reduced Level 1	132322	1745	20.3	21.00	1.175	0.03	1.060	1.245
	2	LTE Band 66	20M	QPSK	100	0	Right Tilted	Reduced Level 1	132322	1745	20.3	21.00	1.175	0.01	0.979	1.150
	2	LTE Band 66	20M	QPSK	1	0	Right Cheek	Reduced Level 2	132322	1745	19.57	20.00	1.104	0.04	0.945	1.043
	2	LTE Band 66	20M	QPSK	1	0	Right Tilted	Reduced Level 2	132322	1745	19.57	20.00	1.104	0.05	0.759	0.838
	2	LTE Band 66	20M	QPSK	1	0	Left Cheek	Reduced Level 2	132322	1745	19.57	20.00	1.104	0.07	0.282	0.311
	2	LTE Band 66	20M	QPSK	1	0	Left Tilted	Reduced Level 2	132322	1745	19.57	20.00	1.104	0.06	0.378	0.417
	2	LTE Band 66	20M	QPSK	1	0	Right Cheek	Reduced Level 2	132072	1720	19.29	20.00	1.178	0.01	0.613	0.722
	2	LTE Band 66	20M	QPSK	1	0	Right Cheek	Reduced Level 2	132572	1770	19.33	20.00	1.167	0.03	0.865	1.009
	2	LTE Band 66	20M	QPSK	1	0	Right Tilted	Reduced Level 2	132072	1720	19.29	20.00	1.178	0.08	0.773	0.910
	2	LTE Band 66	20M	QPSK	1	0	Right Tilted	Reduced Level 2	132572	1770	19.33	20.00	1.167	0.09	0.747	0.872
	2	LTE Band 66	20M	QPSK	50	0	Right Cheek	Reduced Level 2	132322	1745	18.97	19.50	1.130	0.04	0.899	1.016
	2	LTE Band 66	20M	QPSK	50	0	Right Tilted	Reduced Level 2	132322	1745	18.97	19.50	1.130	0.08	0.771	0.871
	2	LTE Band 66	20M	QPSK	50	0	Left Cheek	Reduced Level 2	132322	1745	18.97	19.50	1.130	0.04	0.286	0.323
	2	LTE Band 66	20M	QPSK	50	0	Left Tilted	Reduced Level 2	132322	1745	18.97	19.50	1.130	0.01	0.365	0.412
	2	LTE Band 66	20M	QPSK	50	0	Right Cheek	Reduced Level 2	132072	1720	18.79	19.50	1.178	0.09	0.676	0.796
	2	LTE Band 66	20M	QPSK	50	0	Right Cheek	Reduced Level 2	132572	1770	18.83	19.50	1.167	0.06	0.879	1.026
	2	LTE Band 66	20M	QPSK	50	0	Right Tilted	Reduced Level 2	132072	1720	18.79	19.50	1.178	0.07	0.770	0.907
	2	LTE Band 66	20M	QPSK	50	0	Right Tilted	Reduced Level 2	132572	1770	18.83	19.50	1.167	0.11	0.818	0.954
	2	LTE Band 66	20M	QPSK	100	0	Right Cheek	Reduced Level 2	132322	1745	18.82	19.50	1.169	0.01	0.765	0.895
	2	LTE Band 66	20M	QPSK	100	0	Right Tilted	Reduced Level 2	132322	1745	18.82	19.50	1.169	0.09	0.915	1.070
	2	LTE Band 66	20M	QPSK	1	0	Right Cheek	Reduced Level 3	132322	1745	18.7	19.50	1.202	0.08	0.760	0.914
	2	LTE Band 66	20M	QPSK	1	0	Right Tilted	Reduced Level 3	132322	1745	18.7	19.50	1.202	0.14	0.609	0.732
	2	LTE Band 66	20M	QPSK	1	0	Left Cheek	Reduced Level 3	132322	1745	18.7	19.50	1.202	0.13	0.266	0.320
	2	LTE Band 66	20M	QPSK	1	0	Left Tilted	Reduced Level 3	132322	1745	18.7	19.50	1.202	0.11	0.286	0.344
	2	LTE Band 66	20M	QPSK	1	0	Right Cheek	Reduced Level 3	132072	1720	18.31	19.50	1.315	0.09	0.602	0.792
	2	LTE Band 66	20M	QPSK	1	0	Right Cheek	Reduced Level 3	132572	1770	18.50	19.50	1.259	0.08	0.778	0.979
	2	LTE Band 66	20M	QPSK	50	0	Right Cheek	Reduced Level 3	132322	1745	18.48	19.00	1.127	0.07	0.719	0.810
	2	LTE Band 66	20M	QPSK	50	0	Right Tilted	Reduced Level 3	132322	1745	18.48	19.00	1.127	0.02	0.611	0.689



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2	LTE Band 66	20M	QPSK	50	0	Left Cheek	Reduced Level 3	132322	1745	18.48	19.00	1.127	0.11	0.270	0.304
2	LTE Band 66	20M	QPSK	50	0	Left Tilted	Reduced Level 3	132322	1745	18.48	19.00	1.127	0.09	0.289	0.326
2	LTE Band 66	20M	QPSK	50	0	Right Cheek	Reduced Level 3	132072	1720	18.33	19.00	1.167	0.13	0.621	0.725
2	LTE Band 66	20M	QPSK	50	0	Right Cheek	Reduced Level 3	132572	1770	18.37	19.00	1.156	0.11	0.763	0.882
2	LTE Band 66	20M	QPSK	100	0	Right Cheek	Reduced Level 3	132322	1745	18.36	19.00	1.159	0.1	0.688	0.797
1	LTE Band 66	20M	QPSK	1	0	Right Cheek	Full	132322	1745	24.14	24.50	1.086	0.07	0.113	0.123
1	LTE Band 66	20M	QPSK	1	0	Right Tilted	Full	132322	1745	24.14	24.50	1.086	0.17	0.089	0.097
1	LTE Band 66	20M	QPSK	1	0	Left Cheek	Full	132322	1745	24.14	24.50	1.086	0.05	0.090	0.098
1	LTE Band 66	20M	QPSK	1	0	Left Tilted	Full	132322	1745	24.14	24.50	1.086	0.09	0.068	0.074
1	LTE Band 66	20M	QPSK	1	0	Right Cheek	Full	132072	1720	23.88	24.50	1.153	0.02	0.122	0.141
1	LTE Band 66	20M	QPSK	1	0	Right Cheek	Full	132572	1770	23.95	24.50	1.135	0.03	0.098	0.111
1	LTE Band 66	20M	QPSK	50	0	Right Cheek	Full	132322	1745	23.13	23.50	1.089	0.04	0.079	0.086
1	LTE Band 66	20M	QPSK	50	0	Right Tilted	Full	132322	1745	23.13	23.50	1.089	0.02	0.071	0.077
1	LTE Band 66	20M	QPSK	50	0	Left Cheek	Full	132322	1745	23.13	23.50	1.089	0.08	0.069	0.075
1	LTE Band 66	20M	QPSK	50	0	Left Tilted	Full	132322	1745	23.13	23.50	1.089	0.07	0.055	0.060



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Plot No.	Antenna	Band	BW (MHz)	Modulation	RB Size	RB Offset	Test Position	Power Reduction	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	2	LTE Band 25	20M	QPSK	1	0	Right Cheek	Reduced Level 1	26590	1905	19.99	20.50	1.125	0.06	0.827	0.930
	2	LTE Band 25	20M	QPSK	1	0	Right Tilted	Reduced Level 1	26590	1905	19.99	20.50	1.125	0.02	1.070	1.203
	2	LTE Band 25	20M	QPSK	1	0	Left Cheek	Reduced Level 1	26590	1905	19.99	20.50	1.125	0.09	0.412	0.463
	2	LTE Band 25	20M	QPSK	1	0	Left Tilted	Reduced Level 1	26590	1905	19.99	20.50	1.125	0.04	0.649	0.730
	2	LTE Band 25	20M	QPSK	1	0	Right Cheek	Reduced Level 1	26140	1860	19.72	20.50	1.197	0.01	0.715	0.856
	2	LTE Band 25	20M	QPSK	1	0	Right Cheek	Reduced Level 1	26340	1880	19.75	20.50	1.189	0.02	0.720	0.856
	2	LTE Band 25	20M	QPSK	1	0	Right Tilted	Reduced Level 1	26140	1860	19.72	20.50	1.197	0.05	1.090	1.304
	2	LTE Band 25	20M	QPSK	1	0	Right Tilted	Reduced Level 1	26340	1880	19.75	20.50	1.189	0.01	1.060	1.260
	2	LTE Band 25	20M	QPSK	50	0	Right Cheek	Reduced Level 1	26590	1905	19.93	20.50	1.140	0.07	0.806	0.919
	2	LTE Band 25	20M	QPSK	50	0	Right Tilted	Reduced Level 1	26590	1905	19.93	20.50	1.140	0.09	1.110	1.266
	2	LTE Band 25	20M	QPSK	50	0	Left Cheek	Reduced Level 1	26590	1905	19.93	20.50	1.140	0.03	0.419	0.478
	2	LTE Band 25	20M	QPSK	50	0	Left Tilted	Reduced Level 1	26590	1905	19.93	20.50	1.140	0.02	0.488	0.556
	2	LTE Band 25	20M	QPSK	50	0	Right Cheek	Reduced Level 1	26140	1860	19.75	20.50	1.189	0.08	0.718	0.853
	2	LTE Band 25	20M	QPSK	50	0	Right Cheek	Reduced Level 1	26340	1880	19.86	20.50	1.159	0.06	0.696	0.807
	2	LTE Band 25	20M	QPSK	50	0	Right Tilted	Reduced Level 1	26140	1860	19.75	20.50	1.189	0.07	0.963	1.145
14	2	LTE Band 25	20M	QPSK	50	0	Right Tilted	Reduced Level 1	26340	1880	19.86	20.50	1.159	0.07	1.160	1.344
	2	LTE Band 25	20M	QPSK	100	0	Right Cheek	Reduced Level 1	26590	1905	19.98	20.50	1.127	0.05	1.060	1.195
	2	LTE Band 25	20M	QPSK	100	0	Right Tilted	Reduced Level 1	26590	1905	19.98	20.50	1.127	0.03	1.040	1.172
	2	LTE Band 25	20M	QPSK	1	0	Right Cheek	Reduced Level 2	26590	1905	18.89	19.50	1.151	0.05	0.857	0.986
	2	LTE Band 25	20M	QPSK	1	0	Right Tilted	Reduced Level 2	26590	1905	18.89	19.50	1.151	0.01	0.594	0.684
	2	LTE Band 25	20M	QPSK	1	0	Left Cheek	Reduced Level 2	26590	1905	18.89	19.50	1.151	0.05	0.282	0.325
	2	LTE Band 25	20M	QPSK	1	0	Left Tilted	Reduced Level 2	26590	1905	18.89	19.50	1.151	0.04	0.281	0.323
	2	LTE Band 25	20M	QPSK	1	0	Right Cheek	Reduced Level 2	26140	1860	18.76	19.50	1.186	0.02	0.785	0.931
	2	LTE Band 25	20M	QPSK	1	0	Right Cheek	Reduced Level 2	26340	1880	18.71	19.50	1.199	0.11	0.808	0.969
	2	LTE Band 25	20M	QPSK	50	0	Right Cheek	Reduced Level 2	26590	1905	18.52	19.00	1.117	0.03	0.882	0.985
	2	LTE Band 25	20M	QPSK	50	0	Right Tilted	Reduced Level 2	26590	1905	18.52	19.00	1.117	0.01	0.613	0.685
	2	LTE Band 25	20M	QPSK	50	0	Left Cheek	Reduced Level 2	26590	1905	18.52	19.00	1.117	0.08	0.289	0.323
	2	LTE Band 25	20M	QPSK	50	0	Left Tilted	Reduced Level 2	26590	1905	18.52	19.00	1.117	0.09	0.291	0.325
	2	LTE Band 25	20M	QPSK	50	0	Right Cheek	Reduced Level 2	26140	1860	18.29	19.00	1.178	0.04	0.792	0.933
	2	LTE Band 25	20M	QPSK	50	0	Right Cheek	Reduced Level 2	26340	1880	18.29	19.00	1.178	0.05	0.818	0.963
	2	LTE Band 25	20M	QPSK	100	0	Right Cheek	Reduced Level 2	26590	1905	18.43	19.00	1.140	0.08	0.901	1.027
	2	LTE Band 25	20M	QPSK	1	0	Right Cheek	Reduced Level 3	26590	1905	18.27	19.00	1.183	0.12	0.529	0.626
	2	LTE Band 25	20M	QPSK	1	0	Right Tilted	Reduced Level 3	26590	1905	18.27	19.00	1.183	0.13	0.485	0.574
	2	LTE Band 25	20M	QPSK	1	0	Left Cheek	Reduced Level 3	26590	1905	18.27	19.00	1.183	0.09	0.239	0.283
	2	LTE Band 25	20M	QPSK	1	0	Left Tilted	Reduced Level 3	26590	1905	18.27	19.00	1.183	0.04	0.252	0.298
	2	LTE Band 25	20M	QPSK	1	0	Right Cheek	Reduced Level 3	26140	1860	17.87	19.00	1.297	0.02	0.561	0.728
	2	LTE Band 25	20M	QPSK	1	0	Right Cheek	Reduced Level 3	26340	1880	17.92	19.00	1.282	0.06	0.567	0.727
	2	LTE Band 25	20M	QPSK	50	0	Right Cheek	Reduced Level 3	26590	1905	18.14	19.00	1.219	0.03	0.509	0.620
	2	LTE Band 25	20M	QPSK	50	0	Right Tilted	Reduced Level 3	26590	1905	18.14	19.00	1.219	0.04	0.486	0.592
	2	LTE Band 25	20M	QPSK	50	0	Left Cheek	Reduced Level 3	26590	1905	18.14	19.00	1.219	0.07	0.239	0.291
	2	LTE Band 25	20M	QPSK	50	0	Left Tilted	Reduced Level 3	26590	1905	18.14	19.00	1.219	0.09	0.251	0.306
	1	LTE Band 25	20M	QPSK	1	0	Right Cheek	Full	26590	1905	23.55	24.00	1.109	0.15	0.105	0.116
	1	LTE Band 25	20M	QPSK	1	0	Right Tilted	Full	26590	1905	23.55	24.00	1.109	0.19	0.064	0.071
	1	LTE Band 25	20M	QPSK	1	0	Left Cheek	Full	26590	1905	23.55	24.00	1.109	0.14	0.069	0.077
	1	LTE Band 25	20M	QPSK	1	0	Left Tilted	Full	26590	1905	23.55	24.00	1.109	0.01	0.083	0.092
	1	LTE Band 25	20M	QPSK	1	0	Right Cheek	Full	26140	1860	23.25	24.00	1.189	0.04	0.074	0.088
	1	LTE Band 25	20M	QPSK	1	0	Right Cheek	Full	26340	1880	23.3	24.00	1.175	0.08	0.083	0.098
	1	LTE Band 25	20M	QPSK	50	0	Right Cheek	Full	26590	1905	22.72	23.00	1.067	0.08	0.080	0.085

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1	LTE Band 25	20M	QPSK	50	0	Right Tilted	Full	26590	1905	22.72	23.00	1.067	0.01	0.052	0.055
1	LTE Band 25	20M	QPSK	50	0	Left Cheek	Full	26590	1905	22.72	23.00	1.067	0.06	0.059	0.063
1	LTE Band 25	20M	QPSK	50	0	Left Tilted	Full	26590	1905	22.72	23.00	1.067	0.08	0.069	0.074

Plot No.	Antenna	Band	BW (MHz)	Modulation	RB Size	RB Offset	Test Position	Power Reduction	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	2	LTE Band 2	20M	QPSK	1	0	Right Cheek	Reduced Level 1	19100	1900	20.54	21.00	1.112	0.01	1.010	1.123
	2	LTE Band 2	20M	QPSK	1	0	Right Tilted	Reduced Level 1	19100	1900	20.54	21.00	1.112	0.05	0.858	0.954
	2	LTE Band 2	20M	QPSK	1	0	Left Cheek	Reduced Level 1	19100	1900	20.54	21.00	1.112	-0.02	0.396	0.440
	2	LTE Band 2	20M	QPSK	1	0	Left Tilted	Reduced Level 1	19100	1900	20.54	21.00	1.112	0.03	0.476	0.529
	2	LTE Band 2	20M	QPSK	1	0	Right Cheek	Reduced Level 1	18700	1860	20.39	21.00	1.151	-0.05	1.020	1.174
15	2	LTE Band 2	20M	QPSK	1	0	Right Cheek	Reduced Level 1	18900	1880	20.36	21.00	1.159	-0.13	1.080	1.251
	2	LTE Band 2	20M	QPSK	1	0	Right Tilted	Reduced Level 1	18700	1860	20.39	21.00	1.151	0.07	0.921	1.060
	2	LTE Band 2	20M	QPSK	1	0	Right Tilted	Reduced Level 1	18900	1880	20.36	21.00	1.159	-0.01	0.939	1.088
	2	LTE Band 2	20M	QPSK	50	0	Right Cheek	Reduced Level 1	19100	1900	20.49	21.00	1.125	0.03	1.040	1.170
	2	LTE Band 2	20M	QPSK	50	0	Right Tilted	Reduced Level 1	19100	1900	20.49	21.00	1.125	0.08	0.904	1.017
	2	LTE Band 2	20M	QPSK	50	0	Left Cheek	Reduced Level 1	19100	1900	20.49	21.00	1.125	0.01	0.447	0.503
	2	LTE Band 2	20M	QPSK	50	0	Left Tilted	Reduced Level 1	19100	1900	20.49	21.00	1.125	0.04	0.480	0.540
	2	LTE Band 2	20M	QPSK	50	0	Right Cheek	Reduced Level 1	18700	1860	20.35	21.00	1.161	-0.02	1.040	1.208
	2	LTE Band 2	20M	QPSK	50	0	Right Cheek	Reduced Level 1	18900	1880	20.33	21.00	1.167	0.07	1.010	1.178
	2	LTE Band 2	20M	QPSK	50	0	Right Tilted	Reduced Level 1	18700	1860	20.35	21.00	1.161	0.04	0.945	1.098
	2	LTE Band 2	20M	QPSK	50	0	Right Tilted	Reduced Level 1	18900	1880	20.33	21.00	1.167	0.05	0.957	1.117
	2	LTE Band 2	20M	QPSK	100	0	Right Cheek	Reduced Level 1	19100	1900	20.44	21.00	1.138	0.11	1.050	1.195
	2	LTE Band 2	20M	QPSK	100	0	Right Tilted	Reduced Level 1	19100	1900	20.44	21.00	1.138	0.06	0.936	1.065
	2	LTE Band 2	20M	QPSK	1	0	Right Cheek	Reduced Level 2	19100	1900	19.27	19.50	1.054	0.04	0.865	0.912
	2	LTE Band 2	20M	QPSK	1	0	Right Tilted	Reduced Level 2	19100	1900	19.27	19.50	1.054	0.02	0.799	0.842
	2	LTE Band 2	20M	QPSK	1	0	Left Cheek	Reduced Level 2	19100	1900	19.27	19.50	1.054	0.06	0.303	0.319
	2	LTE Band 2	20M	QPSK	1	0	Left Tilted	Reduced Level 2	19100	1900	19.27	19.50	1.054	0.03	0.368	0.388
	2	LTE Band 2	20M	QPSK	1	0	Right Cheek	Reduced Level 2	18700	1860	18.95	19.50	1.135	0.03	0.795	0.902
	2	LTE Band 2	20M	QPSK	1	0	Right Cheek	Reduced Level 2	18900	1880	18.97	19.50	1.130	0.05	0.807	0.912
	2	LTE Band 2	20M	QPSK	1	0	Right Tilted	Reduced Level 2	18700	1860	18.95	19.50	1.135	-0.08	0.753	0.855
	2	LTE Band 2	20M	QPSK	1	0	Right Tilted	Reduced Level 2	18900	1880	18.97	19.50	1.130	-0.04	0.790	0.893
	2	LTE Band 2	20M	QPSK	50	0	Right Cheek	Reduced Level 2	19100	1900	18.98	19.50	1.127	0.05	0.874	0.985
	2	LTE Band 2	20M	QPSK	50	0	Right Tilted	Reduced Level 2	19100	1900	18.98	19.50	1.127	-0.07	0.791	0.892
	2	LTE Band 2	20M	QPSK	50	0	Left Cheek	Reduced Level 2	19100	1900	18.98	19.50	1.127	0.04	0.289	0.326
	2	LTE Band 2	20M	QPSK	50	0	Left Tilted	Reduced Level 2	19100	1900	18.98	19.50	1.127	0.01	0.359	0.405
	2	LTE Band 2	20M	QPSK	50	0	Right Cheek	Reduced Level 2	18700	1860	18.61	19.50	1.227	0.08	0.784	0.962
	2	LTE Band 2	20M	QPSK	50	0	Right Cheek	Reduced Level 2	18900	1880	18.64	19.50	1.219	0.06	0.826	1.007
	2	LTE Band 2	20M	QPSK	50	0	Right Tilted	Reduced Level 2	18700	1860	18.61	19.50	1.227	0.03	0.749	0.919
	2	LTE Band 2	20M	QPSK	50	0	Right Tilted	Reduced Level 2	18900	1880	18.64	19.50	1.219	0.04	0.843	1.028
	2	LTE Band 2	20M	QPSK	100	0	Right Cheek	Reduced Level 2	19100	1900	18.88	19.50	1.153	0.08	0.859	0.991
	2	LTE Band 2	20M	QPSK	100	0	Right Tilted	Reduced Level 2	19100	1900	18.88	19.50	1.153	0.04	0.799	0.922
	2	LTE Band 2	20M	QPSK	1	0	Right Cheek	Reduced Level 3	19100	1900	18.64	19.00	1.086	-0.05	0.568	0.617
	2	LTE Band 2	20M	QPSK	1	0	Right Tilted	Reduced Level 3	19100	1900	18.64	19.00	1.086	0.05	0.564	0.613
	2	LTE Band 2	20M	QPSK	1	0	Left Cheek	Reduced Level 3	19100	1900	18.64	19.00	1.086	0.12	0.234	0.254
	2	LTE Band 2	20M	QPSK	1	0	Left Tilted	Reduced Level 3	19100	1900	18.64	19.00	1.086	0.11	0.270	0.293
	2	LTE Band 2	20M	QPSK	50	0	Right Cheek	Reduced Level 3	19100	1900	18.47	19.00	1.130	-0.16	0.577	0.652
	2	LTE Band 2	20M	QPSK	50	0	Right Tilted	Reduced Level 3	19100	1900	18.47	19.00	1.130	0.06	0.574	0.649
	2	LTE Band 2	20M	QPSK	50	0	Left Cheek	Reduced Level 3	19100	1900	18.47	19.00	1.130	-0.05	0.232	0.262
	2	LTE Band 2	20M	QPSK	50	0	Left Tilted	Reduced Level 3	19100	1900	18.47	19.00	1.130	0.04	0.274	0.310

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	2	LTE Band 2	20M	QPSK	50	0	Right Cheek	Reduced Level 3	18700	1860	18.08	19.00	1.236	0.02	0.502	0.620
	2	LTE Band 2	20M	QPSK	50	0	Right Cheek	Reduced Level 3	18900	1880	18.2	19.00	1.202	-0.03	0.522	0.628
	1	LTE Band 2	20M	QPSK	1	0	Right Cheek	Full	19100	1900	23.87	24.50	1.156	0.06	0.136	0.157
	1	LTE Band 2	20M	QPSK	1	0	Right Tilted	Full	19100	1900	23.87	24.50	1.156	0.08	0.080	0.092
	1	LTE Band 2	20M	QPSK	1	0	Left Cheek	Full	19100	1900	23.87	24.50	1.156	-0.01	0.091	0.105
	1	LTE Band 2	20M	QPSK	1	0	Left Tilted	Full	19100	1900	23.87	24.50	1.156	0.01	0.089	0.103
	1	LTE Band 2	20M	QPSK	1	0	Right Cheek	Full	18700	1860	23.45	24.50	1.274	0.01	0.097	0.124
	1	LTE Band 2	20M	QPSK	1	0	Right Cheek	Full	18900	1880	23.44	24.50	1.276	0.05	0.110	0.140
	1	LTE Band 2	20M	QPSK	50	0	Right Cheek	Full	19100	1900	22.78	23.50	1.180	-0.06	0.106	0.125
	1	LTE Band 2	20M	QPSK	50	0	Right Tilted	Full	19100	1900	22.78	23.50	1.180	-0.01	0.064	0.076
	1	LTE Band 2	20M	QPSK	50	0	Left Cheek	Full	19100	1900	22.78	23.50	1.180	0.02	0.072	0.085
	1	LTE Band 2	20M	QPSK	50	0	Left Tilted	Full	19100	1900	22.78	23.50	1.180	0.04	0.069	0.081

Plot No.	Antenna	Band	BW (MHz)	Modulation	RB Size	RB Offset	Test Position	Power Reduction	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
16	3	LTE Band 30	10M	QPSK	1	0	Right Cheek	Reduced Level 1	27710	2310	19.38	19.70	1.076	0.07	1.190	1.281
	3	LTE Band 30	10M	QPSK	1	0	Right Tilted	Reduced Level 1	27710	2310	19.38	19.70	1.076	0.08	0.342	0.368
	3	LTE Band 30	10M	QPSK	1	0	Left Cheek	Reduced Level 1	27710	2310	19.38	19.70	1.076	-0.15	0.217	0.234
	3	LTE Band 30	10M	QPSK	1	0	Left Tilted	Reduced Level 1	27710	2310	19.38	19.70	1.076	-0.04	0.138	0.149
	3	LTE Band 30	10M	QPSK	25	0	Right Cheek	Reduced Level 1	27710	2310	19.17	19.70	1.130	0.04	1.110	1.254
	3	LTE Band 30	10M	QPSK	25	0	Right Tilted	Reduced Level 1	27710	2310	19.17	19.70	1.130	0.03	0.338	0.382
	3	LTE Band 30	10M	QPSK	25	0	Left Cheek	Reduced Level 1	27710	2310	19.17	19.70	1.130	-0.02	0.214	0.242
	3	LTE Band 30	10M	QPSK	25	0	Left Tilted	Reduced Level 1	27710	2310	19.17	19.70	1.130	-0.08	0.134	0.151
	3	LTE Band 30	10M	QPSK	50	0	Right Cheek	Reduced Level 1	27710	2310	19.08	19.70	1.153	0.03	1.100	1.269
	3	LTE Band 30	10M	QPSK	1	0	Right Cheek	Reduced Level 2	27710	2310	17.61	18.00	1.094	0.06	0.769	0.841
	3	LTE Band 30	10M	QPSK	1	0	Right Tilted	Reduced Level 2	27710	2310	17.61	18.00	1.094	0.02	0.259	0.283
	3	LTE Band 30	10M	QPSK	1	0	Left Cheek	Reduced Level 2	27710	2310	17.61	18.00	1.094	-0.15	0.163	0.178
	3	LTE Band 30	10M	QPSK	1	0	Left Tilted	Reduced Level 2	27710	2310	17.61	18.00	1.094	-0.01	0.094	0.103
	3	LTE Band 30	10M	QPSK	25	0	Right Cheek	Reduced Level 2	27710	2310	17.58	18.00	1.102	0.07	0.758	0.835
	3	LTE Band 30	10M	QPSK	25	0	Right Tilted	Reduced Level 2	27710	2310	17.58	18.00	1.102	0.02	0.246	0.271
	3	LTE Band 30	10M	QPSK	25	0	Left Cheek	Reduced Level 2	27710	2310	17.58	18.00	1.102	-0.02	0.160	0.176
	3	LTE Band 30	10M	QPSK	25	0	Left Tilted	Reduced Level 2	27710	2310	17.58	18.00	1.102	-0.04	0.092	0.101
	3	LTE Band 30	10M	QPSK	50	0	Right Cheek	Reduced Level 2	27710	2310	17.5	18.00	1.122	0.09	0.839	0.941



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Plot No.	Antenna	Band	BW (MHz)	Modulation	RB Size	RB Offset	Test Position	Power Reduction	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
17	3	LTE Band 7	20M	QPSK	1	0	Right Cheek	Reduced Level 1	21350	2560	19.95	20.50	1.135	0.03	1.070	1.214
	3	LTE Band 7	20M	QPSK	1	0	Right Tilted	Reduced Level 1	21350	2560	19.95	20.50	1.135	0.01	0.282	0.320
	3	LTE Band 7	20M	QPSK	1	0	Left Cheek	Reduced Level 1	21350	2560	19.95	20.50	1.135	-0.01	0.201	0.228
	3	LTE Band 7	20M	QPSK	1	0	Left Tilted	Reduced Level 1	21350	2560	19.95	20.50	1.135	-0.06	0.118	0.134
	3	LTE Band 7	20M	QPSK	1	0	Right Cheek	Reduced Level 1	20850	2510	19.67	20.50	1.211	0.04	0.868	1.051
	3	LTE Band 7	20M	QPSK	1	0	Right Cheek	Reduced Level 1	21100	2535	19.91	20.50	1.146	0.07	1.000	1.146
	3	LTE Band 7	20M	QPSK	1	0	Right Cheek	Reduced Level 1	21350(PCC) + 21152(SCC)	2560(PCC) + 2540.2(SCC)	19.84	20.50	1.164	-0.02	1.020	1.187
	3	LTE Band 7	20M	QPSK	1	0	Right Cheek	Reduced Level 1	20850(PCC) + 21048(SCC)	2510(PCC) + 2529.8(SCC)	19.89	20.50	1.151	0.01	1.040	1.197
	3	LTE Band 7	20M	QPSK	1	0	Right Cheek	Reduced Level 1	21100(PCC) + 20902(SCC)	2535(PCC) + 2515.2(SCC)	19.93	20.50	1.140	-0.01	1.030	1.174
	3	LTE Band 7	20M	QPSK	50	0	Right Cheek	Reduced Level 1	21350	2560	19.85	20.50	1.161	0.03	0.975	1.132
	3	LTE Band 7	20M	QPSK	50	0	Right Tilted	Reduced Level 1	21350	2560	19.85	20.50	1.161	-0.04	0.281	0.326
	3	LTE Band 7	20M	QPSK	50	0	Left Cheek	Reduced Level 1	21350	2560	19.85	20.50	1.161	-0.06	0.201	0.233
	3	LTE Band 7	20M	QPSK	50	0	Left Tilted	Reduced Level 1	21350	2560	19.85	20.50	1.161	-0.05	0.119	0.138
	3	LTE Band 7	20M	QPSK	50	0	Right Cheek	Reduced Level 1	20850	2510	19.5	20.50	1.259	0.03	0.872	1.098
	3	LTE Band 7	20M	QPSK	50	0	Right Cheek	Reduced Level 1	21100	2535	19.83	20.50	1.167	0.07	0.964	1.125
	3	LTE Band 7	20M	QPSK	100	0	Right Cheek	Reduced Level 1	21350	2560	19.88	20.50	1.153	0.03	0.957	1.104
	3	LTE Band 7	20M	QPSK	1	0	Right Cheek	Reduced Level 2	21350	2560	18.59	19.00	1.099	0.05	0.818	0.899
	3	LTE Band 7	20M	QPSK	1	0	Right Tilted	Reduced Level 2	21350	2560	18.59	19.00	1.099	-0.06	0.233	0.256
	3	LTE Band 7	20M	QPSK	1	0	Left Cheek	Reduced Level 2	21350	2560	18.59	19.00	1.099	-0.08	0.129	0.142
	3	LTE Band 7	20M	QPSK	1	0	Left Tilted	Reduced Level 2	21350	2560	18.59	19.00	1.099	-0.03	0.094	0.103
	3	LTE Band 7	20M	QPSK	1	0	Right Cheek	Reduced Level 2	20850	2510	18.29	19.00	1.178	0.09	0.826	0.973
	3	LTE Band 7	20M	QPSK	1	0	Right Cheek	Reduced Level 2	21100	2535	18.5	19.00	1.122	0.08	0.824	0.925
	3	LTE Band 7	20M	QPSK	50	0	Right Cheek	Reduced Level 2	21350	2560	18.45	19.00	1.135	0.05	0.821	0.932
	3	LTE Band 7	20M	QPSK	50	0	Right Tilted	Reduced Level 2	21350	2560	18.45	19.00	1.135	-0.05	0.232	0.263
	3	LTE Band 7	20M	QPSK	50	0	Left Cheek	Reduced Level 2	21350	2560	18.45	19.00	1.135	0.14	0.131	0.149
	3	LTE Band 7	20M	QPSK	50	0	Left Tilted	Reduced Level 2	21350	2560	18.45	19.00	1.135	0.14	0.131	0.149
	3	LTE Band 7	20M	QPSK	50	0	Right Cheek	Reduced Level 2	20850	2510	18.28	19.00	1.180	-0.05	0.930	1.098
	3	LTE Band 7	20M	QPSK	50	0	Right Cheek	Reduced Level 2	21100	2535	18.37	19.00	1.156	0.01	0.828	0.957
	3	LTE Band 7	20M	QPSK	50	0	Right Cheek	Reduced Level 2	20850(PCC) + 21048(SCC)	2510(PCC) + 2529.8(SCC)	18.14	19.00	1.219	0.05	0.757	0.923
	3	LTE Band 7	20M	QPSK	50	0	Right Cheek	Reduced Level 2	21100(PCC) + 20902(SCC)	2535(PCC) + 2515.2(SCC)	18.36	19.00	1.159	-0.08	0.743	0.861
	3	LTE Band 7	20M	QPSK	50	0	Right Cheek	Reduced Level 2	21350(PCC) + 21152(SCC)	2560(PCC) + 2540.2(SCC)	18.34	19.00	1.164	-0.03	0.767	0.893
	3	LTE Band 7	20M	QPSK	100	0	Right Cheek	Reduced Level 2	21350	2560	18.42	19.00	1.143	0.04	0.803	0.918
	3	LTE Band 7	20M	QPSK	1	0	Right Cheek	Reduced Level 3	21350	2560	17.38	18.00	1.153	0.02	0.692	0.798
	3	LTE Band 7	20M	QPSK	1	0	Right Tilted	Reduced Level 3	21350	2560	17.38	18.00	1.153	0.01	0.170	0.196
	3	LTE Band 7	20M	QPSK	1	0	Left Cheek	Reduced Level 3	21350	2560	17.38	18.00	1.153	0.05	0.140	0.161
	3	LTE Band 7	20M	QPSK	1	0	Left Tilted	Reduced Level 3	21350	2560	17.38	18.00	1.153	0.04	0.103	0.119
	3	LTE Band 7	20M	QPSK	1	0	Right Cheek	Reduced Level 3	20850	2510	17.16	18.00	1.213	0.06	0.627	0.761
	3	LTE Band 7	20M	QPSK	1	0	Right Cheek	Reduced Level 3	21100	2535	17.26	18.00	1.186	0.05	0.721	0.855
	3	LTE Band 7	20M	QPSK	1	0	Right Cheek	Reduced Level 3	21100(PCC) + 20902(SCC)	2535(PCC) + 2515.2(SCC)	17.37	18.00	1.156	0.02	0.604	0.698
	3	LTE Band 7	20M	QPSK	50	0	Right Cheek	Reduced Level 3	21350	2560	17.37	18.00	1.156	0.08	0.670	0.775
	3	LTE Band 7	20M	QPSK	50	0	Right Tilted	Reduced Level 3	21350	2560	17.37	18.00	1.156	-0.01	0.163	0.188
	3	LTE Band 7	20M	QPSK	50	0	Left Cheek	Reduced Level 3	21350	2560	17.37	18.00	1.156	-0.05	0.140	0.162

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3	LTE Band 7	20M	QPSK	50	0	Left Tilted	Reduced Level 3	21350	2560	17.37	18.00	1.156	-0.03	0.078	0.090
3	LTE Band 7	20M	QPSK	100	0	Right Cheek	Reduced Level 3	21350	2560	17.3	18.00	1.175	0.02	0.653	0.767

<TDD LTE SAR>

Plot No.	Antenna	Band	BW (MHz)	Modulation	RB Size	RB Offset	Test Position	Power Reduction	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	3	LTE Band 41	20M	QPSK	1	0	Right Cheek	Reduced Level 1	41055	2636.5	21.84	22.00	1.038	62.9	1.006	-0.05	1.050	1.096
	3	LTE Band 41	20M	QPSK	1	0	Right Tilted	Reduced Level 1	41055	2636.5	21.84	22.00	1.038	62.9	1.006	-0.04	0.333	0.348
	3	LTE Band 41	20M	QPSK	1	0	Left Cheek	Reduced Level 1	41055	2636.5	21.84	22.00	1.038	62.9	1.006	0.09	0.229	0.239
	3	LTE Band 41	20M	QPSK	1	0	Left Tilted	Reduced Level 1	41055	2636.5	21.84	22.00	1.038	62.9	1.006	-0.09	0.131	0.137
	3	LTE Band 41	20M	QPSK	1	0	Right Cheek	Reduced Level 1	39750	2506	21.43	22.00	1.140	62.9	1.006	-0.04	1.030	1.182
	3	LTE Band 41	20M	QPSK	1	0	Right Cheek	Reduced Level 1	40185	2549.5	21.57	22.00	1.104	62.9	1.006	-0.02	0.995	1.105
	3	LTE Band 41	20M	QPSK	1	0	Right Cheek	Reduced Level 1	40620	2593	21.55	22.00	1.109	62.9	1.006	-0.05	1.140	1.272
	3	LTE Band 41	20M	QPSK	1	0	Right Cheek	Reduced Level 1	41490	2680	21.72	22.00	1.067	62.9	1.006	-0.07	1.190	1.277
	3	LTE Band 41	20M	QPSK	50	0	Right Cheek	Reduced Level 1	41055	2636.5	21.57	21.80	1.054	62.9	1.006	0.05	1.080	1.146
	3	LTE Band 41	20M	QPSK	50	0	Right Tilted	Reduced Level 1	41055	2636.5	21.57	21.80	1.054	62.9	1.006	0.03	0.337	0.357
	3	LTE Band 41	20M	QPSK	50	0	Left Cheek	Reduced Level 1	41055	2636.5	21.57	21.80	1.054	62.9	1.006	0.03	0.227	0.241
	3	LTE Band 41	20M	QPSK	50	0	Left Tilted	Reduced Level 1	41055	2636.5	21.57	21.80	1.054	62.9	1.006	-0.05	0.114	0.121
	3	LTE Band 41	20M	QPSK	50	0	Right Cheek	Reduced Level 1	39750	2506	21.56	21.80	1.057	62.9	1.006	-0.02	1.100	1.169
	3	LTE Band 41	20M	QPSK	50	0	Right Cheek	Reduced Level 1	40185	2549.5	21.54	21.80	1.062	62.9	1.006	-0.02	1.100	1.175
	3	LTE Band 41	20M	QPSK	50	0	Right Cheek	Reduced Level 1	40620	2593	21.36	21.80	1.107	62.9	1.006	-0.1	1.150	1.280
18	3	LTE Band 41	20M	QPSK	50	0	Right Cheek	Reduced Level 1	41490	2680	21.38	21.80	1.102	62.9	1.006	-0.07	1.180	1.308
	3	LTE Band 41	20M	QPSK	50	0	Right Cheek	Reduced Level 1	41490(PCC) + 41292(SCC)	2680(PCC) + 2660.2(SCC)	21.52	21.80	1.067	62.9	1.006	0.09	1.090	1.170
	3	LTE Band 41	20M	QPSK	50	0	Right Cheek	Reduced Level 1	39750(PCC) + 39948(SCC)	2506(PCC) + 2525.8(SCC)	21.49	21.80	1.074	62.9	1.006	-0.09	1.060	1.145
	3	LTE Band 41	20M	QPSK	50	0	Right Cheek	Reduced Level 1	40185(PCC) + 40383(SCC)	2549.5(PCC) + 2569.3(SCC)	21.54	21.80	1.062	62.9	1.006	-0.04	1.060	1.132
	3	LTE Band 41	20M	QPSK	50	0	Right Cheek	Reduced Level 1	40620(PCC) + 40422(SCC)	2593(PCC) + 2573.2(SCC)	21.56	21.80	1.057	62.9	1.006	-0.02	1.020	1.084
	3	LTE Band 41	20M	QPSK	50	0	Right Cheek	Reduced Level 1	41055(PCC) + 40857(SCC)	2636.5(PCC) + 2616.7(SCC)	21.57	21.80	1.054	62.9	1.006	0.03	1.100	1.167
	3	LTE Band 41	20M	QPSK	50	0	Right Cheek	Reduced Level 1	39790(PCC) + 39988(SCC)	2510(PCC) + 2529.8(SCC)	21.44	21.80	1.086	62.9	1.006	-0.05	1.090	1.191
	3	LTE Band 41	20M	QPSK	100	0	Right Cheek	Reduced Level 1	41055	2636.5	21.5	21.80	1.072	62.9	1.006	-0.09	1.060	1.143
	3	LTE Band 41	20M	QPSK	1	0	Right Cheek	Reduced Level 2	41055	2636.5	20.1	20.50	1.096	62.9	1.006	-0.06	0.793	0.875
	3	LTE Band 41	20M	QPSK	1	0	Right Tilted	Reduced Level 2	41055	2636.5	20.1	20.50	1.096	62.9	1.006	0.03	0.215	0.237
	3	LTE Band 41	20M	QPSK	1	0	Left Cheek	Reduced Level 2	41055	2636.5	20.1	20.50	1.096	62.9	1.006	-0.01	0.151	0.167
	3	LTE Band 41	20M	QPSK	1	0	Left Tilted	Reduced Level 2	41055	2636.5	20.1	20.50	1.096	62.9	1.006	0.01	0.086	0.095
	3	LTE Band 41	20M	QPSK	1	0	Right Cheek	Reduced Level 2	39750	2506	19.68	20.50	1.208	62.9	1.006	-0.02	0.678	0.824
	3	LTE Band 41	20M	QPSK	1	0	Right Cheek	Reduced Level 2	40185	2549.5	19.92	20.50	1.143	62.9	1.006	-0.06	0.634	0.729
	3	LTE Band 41	20M	QPSK	1	0	Right Cheek	Reduced Level 2	40620	2593	19.78	20.50	1.180	62.9	1.006	0.02	0.568	0.674
	3	LTE Band 41	20M	QPSK	1	0	Right Cheek	Reduced Level 2	41490	2680	19.77	20.50	1.183	62.9	1.006	-0.05	0.722	0.859
	3	LTE Band 41	20M	QPSK	50	0	Right Cheek	Reduced Level 2	41055	2636.5	19.99	20.50	1.125	62.9	1.006	0.01	0.792	0.896
	3	LTE Band 41	20M	QPSK	50	0	Right Tilted	Reduced Level 2	41055	2636.5	19.99	20.50	1.125	62.9	1.006	0.05	0.201	0.227
	3	LTE Band 41	20M	QPSK	50	0	Left Cheek	Reduced Level 2	41055	2636.5	19.99	20.50	1.125	62.9	1.006	0.02	0.141	0.160
	3	LTE Band 41	20M	QPSK	50	0	Left Tilted	Reduced Level 2	41055	2636.5	19.99	20.50	1.125	62.9	1.006	0.01	0.087	0.098
	3	LTE Band 41	20M	QPSK	50	0	Right Cheek	Reduced Level 2	39750	2506	19.71	20.50	1.199	62.9	1.006	-0.05	0.682	0.823

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3	LTE Band 41	20M	QPSK	50	0	Right Cheek	Reduced Level 2	40185	2549.5	19.92	20.50	1.143	62.9	1.006	-0.03	0.638	0.734
3	LTE Band 41	20M	QPSK	50	0	Right Cheek	Reduced Level 2	40620	2593	19.83	20.50	1.167	62.9	1.006	0.04	0.599	0.703
3	LTE Band 41	20M	QPSK	50	0	Right Cheek	Reduced Level 2	41490	2680	19.91	20.50	1.146	62.9	1.006	-0.02	0.716	0.825
3	LTE Band 41	20M	QPSK	50	0	Right Cheek	Reduced Level 2	41055(PCC) + 40857(SCC)	2636.5(PCC) + 2616.7(SCC)	19.88	20.50	1.153	62.9	1.006	-0.06	0.695	0.806
3	LTE Band 41	20M	QPSK	50	0	Right Cheek	Reduced Level 2	39750(PCC) + 39948(SCC)	2506(PCC) + 2525.8(SCC)	19.66	20.50	1.213	62.9	1.006	0.02	0.653	0.797
3	LTE Band 41	20M	QPSK	50	0	Right Cheek	Reduced Level 2	40185(PCC) + 40383(SCC)	2549.5(PCC) + 2569.3(SCC)	19.72	20.50	1.197	62.9	1.006	-0.02	0.689	0.830
3	LTE Band 41	20M	QPSK	50	0	Right Cheek	Reduced Level 2	41490(PCC) + 40422(SCC)	2593(PCC) + 2573.2(SCC)	19.75	20.50	1.189	62.9	1.006	0.03	0.679	0.812
3	LTE Band 41	20M	QPSK	50	0	Right Cheek	Reduced Level 2	41490(PCC) + 41292(SCC)	2680(PCC) + 2660.2(SCC)	19.8	20.50	1.175	62.9	1.006	0.05	0.669	0.791
3	LTE Band 41	20M	QPSK	50	0	Right Cheek	Reduced Level 2	39790(PCC) + 39988(SCC)	2510(PCC) + 2529.8(SCC)	19.63	20.50	1.222	62.9	1.006	-0.02	0.659	0.810
3	LTE Band 41	20M	QPSK	100	0	Right Cheek	Reduced Level 2	41055	2636.5	19.92	20.50	1.143	62.9	1.006	0.08	0.730	0.839
3	LTE Band 41	20M	QPSK	1	0	Right Cheek	Reduced Level 3	41055	2636.5	19.52	20.00	1.117	62.9	1.006	-0.04	0.566	0.636
3	LTE Band 41	20M	QPSK	1	0	Right Tilted	Reduced Level 3	41055	2636.5	19.52	20.00	1.117	62.9	1.006	-0.07	0.166	0.187
3	LTE Band 41	20M	QPSK	1	0	Left Cheek	Reduced Level 3	41055	2636.5	19.52	20.00	1.117	62.9	1.006	0.05	0.110	0.124
3	LTE Band 41	20M	QPSK	1	0	Left Tilted	Reduced Level 3	41055	2636.5	19.52	20.00	1.117	62.9	1.006	-0.02	0.074	0.083
3	LTE Band 41	20M	QPSK	1	0	Right Cheek	Reduced Level 3	39750	2506	19.47	20.00	1.130	62.9	1.006	0.03	0.491	0.558
3	LTE Band 41	20M	QPSK	1	0	Right Cheek	Reduced Level 3	40185	2549.5	19.38	20.00	1.153	62.9	1.006	0.05	0.541	0.628
3	LTE Band 41	20M	QPSK	1	0	Right Cheek	Reduced Level 3	40620	2593	19.42	20.00	1.143	62.9	1.006	-0.02	0.560	0.644
3	LTE Band 41	20M	QPSK	1	0	Right Cheek	Reduced Level 3	41490	2680	19.48	20.00	1.127	62.9	1.006	-0.05	0.542	0.615
3	LTE Band 41	20M	QPSK	1	0	Right Cheek	Reduced Level 3	39790(PCC) + 39988(SCC)	2510(PCC) + 2529.8(SCC)	19.49	20.00	1.125	62.9	1.006	-0.01	0.599	0.678
3	LTE Band 41	20M	QPSK	1	0	Right Cheek	Reduced Level 3	39750(PCC) + 39948(SCC)	2506(PCC) + 2525.8(SCC)	19.44	20.00	1.138	62.9	1.006	0.02	0.578	0.661
3	LTE Band 41	20M	QPSK	1	0	Right Cheek	Reduced Level 3	40185(PCC) + 40383(SCC)	2549.5(PCC) + 2569.3(SCC)	19.3	20.00	1.175	62.9	1.006	-0.11	0.614	0.726
3	LTE Band 41	20M	QPSK	1	0	Right Cheek	Reduced Level 3	40620(PCC) + 40422(SCC)	2593(PCC) + 2573.2(SCC)	19.5	20.00	1.122	62.9	1.006	-0.05	0.614	0.693
3	LTE Band 41	20M	QPSK	1	0	Right Cheek	Reduced Level 3	41055(PCC) + 40857(SCC)	2636.5(PCC) + 2616.7(SCC)	19.51	20.00	1.119	62.9	1.006	0.05	0.649	0.731
3	LTE Band 41	20M	QPSK	1	0	Right Cheek	Reduced Level 3	41490(PCC) + 41292(SCC)	2680(PCC) + 2660.2(SCC)	19.47	20.00	1.130	62.9	1.006	-0.02	0.621	0.706
3	LTE Band 41	20M	QPSK	50	0	Right Cheek	Reduced Level 3	41055	2636.5	19.46	20.00	1.132	62.9	1.006	0.05	0.546	0.622
3	LTE Band 41	20M	QPSK	50	0	Right Tilted	Reduced Level 3	41055	2636.5	19.46	20.00	1.132	62.9	1.006	0.05	0.168	0.191
3	LTE Band 41	20M	QPSK	50	0	Left Cheek	Reduced Level 3	41055	2636.5	19.46	20.00	1.132	62.9	1.006	0.03	0.107	0.122
3	LTE Band 41	20M	QPSK	50	0	Left Tilted	Reduced Level 3	41055	2636.5	19.46	20.00	1.132	62.9	1.006	-0.01	0.078	0.089
3	LTE Band 41	20M	QPSK	50	0	Right Cheek	Reduced Level 3	39750	2506	19.18	20.00	1.208	62.9	1.006	0.02	0.470	0.571
3	LTE Band 41	20M	QPSK	50	0	Right Cheek	Reduced Level 3	40185	2549.5	19.41	20.00	1.146	62.9	1.006	-0.11	0.469	0.540
3	LTE Band 41	20M	QPSK	50	0	Right Cheek	Reduced Level 3	40620	2593	19.33	20.00	1.167	62.9	1.006	-0.05	0.455	0.534
3	LTE Band 41	20M	QPSK	50	0	Right Cheek	Reduced Level 3	41490	2680	19.44	20.00	1.138	62.9	1.006	0.01	0.449	0.514
3	LTE Band 41	20M	QPSK	100	0	Right Cheek	Reduced Level 3	41055	2636.5	19.4	20.00	1.148	62.9	1.006	-0.02	0.499	0.576



<WLAN 2.4GHz SAR>

Plot No.	Antenna	Band	Mode	Test Position	Power Reduction	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	1	WLAN2.4GHz	802.11b 1Mbps	Right Cheek	Reduced Level 1	6	2437	16.01	16.50	1.119	99.31	1.007	0.01	0.263	0.296
	1	WLAN2.4GHz	802.11b 1Mbps	Right Tilted	Reduced Level 1	6	2437	16.01	16.50	1.119	99.31	1.007	-0.02	0.292	0.329
19	1	WLAN2.4GHz	802.11b 1Mbps	Left Cheek	Reduced Level 1	6	2437	16.01	16.50	1.119	99.31	1.007	0.09	0.872	0.983
	1	WLAN2.4GHz	802.11b 1Mbps	Left Cheek	Reduced Level 1	11	2462	15.91	16.50	1.146	99.31	1.007	0.07	0.763	0.880
	1	WLAN2.4GHz	802.11b 1Mbps	Left Cheek	Reduced Level 1	1	2412	15.54	16.50	1.247	99.31	1.007	0.05	0.612	0.769
	1	WLAN2.4GHz	802.11b 1Mbps	Left Tilted	Reduced Level 1	6	2437	16.01	16.50	1.119	99.31	1.007	0.03	0.809	0.912
	1	WLAN2.4GHz	802.11b 1Mbps	Left Tilted	Reduced Level 1	11	2462	15.91	16.50	1.146	99.31	1.007	-0.19	0.679	0.783
20	2	WLAN2.4GHz	802.11b 1Mbps	Right Cheek	Full	6	2437	16.24	16.50	1.062	99.34	1.007	-0.02	0.650	0.695
	2	WLAN2.4GHz	802.11b 1Mbps	Right Tilted	Full	6	2437	16.24	16.50	1.062	99.34	1.007	-0.01	0.208	0.222
	2	WLAN2.4GHz	802.11b 1Mbps	Left Cheek	Full	6	2437	16.24	16.50	1.062	99.34	1.007	0.03	0.156	0.167
	2	WLAN2.4GHz	802.11b 1Mbps	Left Tilted	Full	6	2437	16.24	16.50	1.062	99.34	1.007	0.01	0.078	0.083
	2	WLAN2.4GHz	802.11b 1Mbps	Right Cheek	Full	1	2412	15.77	16.50	1.183	99.34	1.007	-0.08	0.411	0.490
	2	WLAN2.4GHz	802.11b 1Mbps	Right Cheek	Full	11	2462	15.87	16.50	1.156	99.34	1.007	-0.07	0.450	0.524



<WLAN 5GHz SAR>

Plot No.	Antenna	Band	Mode	Test Position	Power Reduction	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Max Area Scan SAR	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	1+2	WLAN5.3GHz	802.11n-HT40 MCS0	Right Cheek	Reduced Level 1	54	5270	17.50	18.00	1.122	96.46	1.037		0.05	0.227	0.264
	1+2	WLAN5.3GHz	802.11n-HT40 MCS0	Right Tilted	Reduced Level 1	54	5270	17.50	18.00	1.122	96.46	1.037		0.13	0.177	0.206
	1+2	WLAN5.3GHz	802.11n-HT40 MCS0	Left Cheek	Reduced Level 1	54	5270	17.50	18.00	1.122	96.46	1.037		0.06	0.549	0.639
	1+2	WLAN5.3GHz	802.11n-HT40 MCS0	Left Tilted	Reduced Level 1	54	5270	17.50	18.00	1.122	96.46	1.037		0.07	0.588	0.684
21	1+2	WLAN5.3GHz	802.11n-HT40 MCS0	Left Tilted	Reduced Level 1	62	5310	17.48	18.00	1.127	96.46	1.037		0.03	0.671	0.784
	1+2	WLAN5.3GHz	802.11n-HT40 MCS0	Right Cheek	Reduced Level 2	54	5270	16.50	17.00	1.122	96.46	1.037		0.06	0.204	0.237
	1+2	WLAN5.3GHz	802.11n-HT40 MCS0	Right Tilted	Reduced Level 2	54	5270	16.50	17.00	1.122	96.46	1.037		0.03	0.191	0.222
	1+2	WLAN5.3GHz	802.11n-HT40 MCS0	Left Cheek	Reduced Level 2	54	5270	16.50	17.00	1.122	96.46	1.037		0.07	0.423	0.492
	1+2	WLAN5.3GHz	802.11n-HT40 MCS0	Left Tilted	Reduced Level 2	54	5270	16.50	17.00	1.122	96.46	1.037		-0.02	0.497	0.578
	1+2	WLAN5.3GHz	802.11n-HT40 MCS0	Left Tilted	Reduced Level 2	62	5310	16.49	17.00	1.125	96.46	1.037		0.03	0.468	0.546
	1+2	WLAN5.5GHz	802.11n-HT40 MCS0	Right Cheek	Reduced Level 1	142	5710	17.53	18.00	1.114	96.46	1.037	0.770	-0.09	0.292	0.337
	1+2	WLAN5.5GHz	802.11n-HT40 MCS0	Right Tilted	Reduced Level 1	142	5710	17.53	18.00	1.114	96.46	1.037	0.828	0.05	0.367	0.424
	1+2	WLAN5.5GHz	802.11n-HT40 MCS0	Left Cheek	Reduced Level 1	142	5710	17.53	18.00	1.114	96.46	1.037	1.587	-0.03	0.885	1.023
	1+2	WLAN5.5GHz	802.11n-HT40 MCS0	Left Cheek	Reduced Level 1	102	5510	17.49	18.00	1.125	96.46	1.037		-0.06	0.907	1.058
	1+2	WLAN5.5GHz	802.11n-HT40 MCS0	Left Tilted	Reduced Level 1	142	5710	17.53	18.00	1.114	96.46	1.037	1.865	-0.19	0.923	1.067
22	1+2	WLAN5.5GHz	802.11n-HT40 MCS0	Left Tilted	Reduced Level 1	102	5510	17.49	18.00	1.125	96.46	1.037		-0.07	0.917	1.069
	1+2	WLAN5.5GHz	802.11n-HT40 MCS0	Left Tilted	Reduced Level 1	110	5550	17.43	18.00	1.140	96.46	1.037		-0.01	0.894	1.057
	1+2	WLAN5.5GHz	802.11n-HT40 MCS0	Right Cheek	Reduced Level 2	142	5710	16.83	17.00	1.040	96.46	1.037		0.08	0.271	0.292
	1+2	WLAN5.5GHz	802.11n-HT40 MCS0	Right Tilted	Reduced Level 2	142	5710	16.83	17.00	1.040	96.46	1.037		0.06	0.301	0.325
	1+2	WLAN5.5GHz	802.11n-HT40 MCS0	Left Cheek	Reduced Level 2	142	5710	16.83	17.00	1.040	96.46	1.037		-0.09	0.671	0.724
	1+2	WLAN5.5GHz	802.11n-HT40 MCS0	Left Tilted	Reduced Level 2	142	5710	16.83	17.00	1.040	96.46	1.037		0.05	0.701	0.756
	1+2	WLAN5.5GHz	802.11n-HT40 MCS0	Left Tilted	Reduced Level 2	102	5510	16.49	17.00	1.125	96.46	1.037		-0.03	0.698	0.814
	1+2	WLAN5.5GHz	802.11n-HT40 MCS0	Left Tilted	Reduced Level 2	110	5550	16.43	17.00	1.140	96.46	1.037		-0.02	0.753	0.890
	1+2	WLAN5.8GHz	802.11n-HT40 MCS0	Right Cheek	Full	159	5795	17.96	18.00	1.009	96.46	1.037	0.796	-0.02	0.318	0.333
	1+2	WLAN5.8GHz	802.11n-HT40 MCS0	Right Tilted	Full	159	5795	17.96	18.00	1.009	96.46	1.037	0.793			
	1+2	WLAN5.8GHz	802.11n-HT40 MCS0	Left Cheek	Full	159	5795	17.96	18.00	1.009	96.46	1.037	1.728	-0.03	0.880	0.921
23	1+2	WLAN5.8GHz	802.11n-HT40 MCS0	Left Cheek	Full	151	5755	17.76	18.00	1.057	96.46	1.037		-0.1	0.934	1.024
	1+2	WLAN5.8GHz	802.11n-HT40 MCS0	Left Tilted	Full	159	5795	17.96	18.00	1.009	96.46	1.037	1.990	-0.07	0.888	0.929
	1+2	WLAN5.8GHz	802.11n-HT40 MCS0	Left Tilted	Full	151	5755	17.76	18.00	1.057	96.46	1.037		-0.05	0.864	0.947
	1+2	WLAN5.8GHz	802.11n-HT40 MCS0	Right Cheek	Reduced Level 2	159	5795	16.96	17.00	1.009	96.46	1.037		0.06	0.329	0.344
	1+2	WLAN5.8GHz	802.11n-HT40 MCS0	Right Tilted	Reduced Level 2	159	5795	16.96	17.00	1.009	96.46	1.037		-0.05	0.262	0.274
	1+2	WLAN5.8GHz	802.11n-HT40 MCS0	Left Cheek	Reduced Level 2	159	5795	16.96	17.00	1.009	96.46	1.037		0.09	0.674	0.705
	1+2	WLAN5.8GHz	802.11n-HT40 MCS0	Left Tilted	Reduced Level 2	159	5795	16.96	17.00	1.009	96.46	1.037		0.02	0.848	0.888
	1+2	WLAN5.8GHz	802.11n-HT40 MCS0	Left Tilted	Reduced Level 2	151	5755	16.76	17.00	1.057	96.46	1.037		-0.06	0.797	0.873

<Bluetooth SAR>

Plot No.	Antenna	Band	Mode	Test Position	Power Reduction	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	1	Bluetooth	1Mbps	Right Cheek	Full	0	2402	12.73	13.10	1.088	76.84	1.084	0.02	0.080	0.094
	1	Bluetooth	1Mbps	Right Tilted	Full	0	2402	12.73	13.10	1.088	76.84	1.084	0.01	0.062	0.073
	1	Bluetooth	1Mbps	Left Cheek	Full	0	2402	12.73	13.10	1.088	76.84	1.084	-0.05	0.234	0.276
	1	Bluetooth	1Mbps	Left Tilted	Full	0	2402	12.73	13.10	1.088	76.84	1.084	0.09	0.137	0.162
24	1	Bluetooth	1Mbps	Left Cheek	Full	39	2441	12.71	13.10	1.094	76.84	1.084	-0.1	0.329	0.390
	1	Bluetooth	1Mbps	Left Cheek	Full	78	2480	12.18	13.10	1.236	76.84	1.084	-0.02	0.273	0.366



14.2 Hotspot SAR

<GSM SAR>

Plot No.	Antenna	Band	Mode	Test Position	Gap (mm)	Power Reduction	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	2	GSM850	GPRS(3 Tx slots)	Front	10	Full	251	848.8	29.18	29.80	1.153	0.04	0.373	0.430
	2	GSM850	GPRS(3 Tx slots)	Back	10	Full	251	848.8	29.18	29.80	1.153	0.01	0.529	0.610
	2	GSM850	GPRS(3 Tx slots)	Left Side	10	Full	251	848.8	29.18	29.80	1.153	0.02	0.271	0.313
	2	GSM850	GPRS(3 Tx slots)	Top Side	10	Full	251	848.8	29.18	29.80	1.153	0.04	0.417	0.481
25	2	GSM850	GPRS(3 Tx slots)	Back	10	Full	128	824.2	28.88	29.80	1.236	0.07	0.538	0.665
	2	GSM850	GPRS(3 Tx slots)	Back	10	Full	189	836.4	29.05	29.80	1.189	0.06	0.557	0.662
	1	GSM850	GPRS(3 Tx slots)	Front	10	Full	251	848.8	29.18	29.80	1.153	0.05	0.333	0.384
	1	GSM850	GPRS(3 Tx slots)	Back	10	Full	251	848.8	29.18	29.80	1.153	0.01	0.508	0.586
	1	GSM850	GPRS(3 Tx slots)	Left Side	10	Full	251	848.8	29.18	29.80	1.153	0.08	0.186	0.215
	1	GSM850	GPRS(3 Tx slots)	Right Side	10	Full	251	848.8	29.18	29.80	1.153	0.01	0.071	0.082
	1	GSM850	GPRS(3 Tx slots)	Bottom Side	10	Full	251	848.8	29.18	29.80	1.153	0.02	0.231	0.266
	1	GSM850	GPRS(3 Tx slots)	Back	10	Full	128	824.2	28.88	29.80	1.236	0.04	0.443	0.548
	1	GSM850	GPRS(3 Tx slots)	Back	10	Full	189	836.4	29.05	29.80	1.189	0.01	0.464	0.551
	2	GSM1900	GPRS(3 Tx slots)	Front	10	Full	810	1909.8	25.31	26.00	1.172	0.07	0.157	0.184
	2	GSM1900	GPRS(3 Tx slots)	Back	10	Full	810	1909.8	25.31	26.00	1.172	0.04	0.260	0.305
	2	GSM1900	GPRS(3 Tx slots)	Left Side	10	Full	810	1909.8	25.31	26.00	1.172	0.14	0.076	0.089
	2	GSM1900	GPRS(3 Tx slots)	Top Side	10	Full	810	1909.8	25.31	26.00	1.172	0.09	0.270	0.316
	2	GSM1900	GPRS(3 Tx slots)	Top Side	10	Full	512	1850.2	25.18	26.00	1.208	0.01	0.379	0.458
	2	GSM1900	GPRS(3 Tx slots)	Top Side	10	Full	661	1880	25.29	26.00	1.178	0.07	0.287	0.338
	1	GSM1900	GPRS(3 Tx slots)	Front	10	Reduced Level 1	810	1909.8	24.55	25.00	1.109	-0.05	0.395	0.438
	1	GSM1900	GPRS(3 Tx slots)	Back	10	Reduced Level 1	810	1909.8	24.55	25.00	1.109	-0.06	0.613	0.680
	1	GSM1900	GPRS(3 Tx slots)	Left Side	10	Reduced Level 1	810	1909.8	24.55	25.00	1.109	-0.07	0.056	0.062
	1	GSM1900	GPRS(3 Tx slots)	Right Side	10	Reduced Level 1	810	1909.8	24.55	25.00	1.109	-0.04	0.120	0.133
26	1	GSM1900	GPRS(3 Tx slots)	Bottom Side	10	Reduced Level 1	810	1909.8	24.55	25.00	1.109	0.01	1.120	1.242
	1	GSM1900	GPRS(3 Tx slots)	Bottom Side	10	Reduced Level 1	512	1850.2	24.47	25.00	1.130	0.01	0.816	0.922
	1	GSM1900	GPRS(3 Tx slots)	Bottom Side	10	Reduced Level 1	661	1880	24.26	25.00	1.186	0.06	0.998	1.183



<WCDMA SAR>

Plot No.	Antenna	Band	Mode	Test Position	Gap (mm)	Power Reduction	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	2	WCDMA Band V	RMC 12.2Kbps	Front	10	Full	4182	836.4	23.92	24.50	1.143	0.02	0.404	0.462
	2	WCDMA Band V	RMC 12.2Kbps	Back	10	Full	4182	836.4	23.92	24.50	1.143	0.03	0.560	0.640
	2	WCDMA Band V	RMC 12.2Kbps	Left Side	10	Full	4182	836.4	23.92	24.50	1.143	0.06	0.225	0.257
	2	WCDMA Band V	RMC 12.2Kbps	Top Side	10	Full	4182	836.4	23.92	24.50	1.143	0.02	0.008	0.009
	2	WCDMA Band V	RMC 12.2Kbps	Back	10	Full	4132	826.4	23.88	24.50	1.153	0.09	0.564	0.651
27	2	WCDMA Band V	RMC 12.2Kbps	Back	10	Full	4233	846.6	23.89	24.50	1.151	0.07	0.586	0.674
	1	WCDMA Band V	RMC 12.2Kbps	Front	10	Full	4182	836.4	23.92	24.50	1.143	0.05	0.238	0.272
	1	WCDMA Band V	RMC 12.2Kbps	Back	10	Full	4182	836.4	23.92	24.50	1.143	0.03	0.332	0.379
	1	WCDMA Band V	RMC 12.2Kbps	Left Side	10	Full	4182	836.4	23.92	24.50	1.143	0.01	0.260	0.297
	1	WCDMA Band V	RMC 12.2Kbps	Right Side	10	Full	4182	836.4	23.92	24.50	1.143	0.06	0.144	0.165
	1	WCDMA Band V	RMC 12.2Kbps	Bottom Side	10	Full	4182	836.4	23.92	24.50	1.143	0.02	0.198	0.226
	1	WCDMA Band V	RMC 12.2Kbps	Back	10	Full	4132	826.4	23.88	24.50	1.153	0.05	0.337	0.389
	1	WCDMA Band V	RMC 12.2Kbps	Back	10	Full	4233	846.6	23.89	24.50	1.151	0.07	0.380	0.437
	2	WCDMA Band IV	RMC 12.2Kbps	Front	10	Full	1513	1752.6	24.63	25.00	1.089	0.08	0.561	0.611
	2	WCDMA Band IV	RMC 12.2Kbps	Back	10	Full	1513	1752.6	24.63	25.00	1.089	0.05	0.538	0.586
	2	WCDMA Band IV	RMC 12.2Kbps	Left Side	10	Full	1513	1752.6	24.63	25.00	1.089	0.01	0.484	0.527
	2	WCDMA Band IV	RMC 12.2Kbps	Top Side	10	Full	1513	1752.6	24.63	25.00	1.089	0.1	0.756	0.823
	2	WCDMA Band IV	RMC 12.2Kbps	Top Side	10	Full	1312	1712.4	24.41	25.00	1.146	0.02	0.812	0.930
	2	WCDMA Band IV	RMC 12.2Kbps	Top Side	10	Full	1413	1732.6	24.61	25.00	1.094	0.07	0.909	0.994
	1	WCDMA Band IV	RMC 12.2Kbps	Front	10	Reduced Level 1	1513	1752.6	19.79	20.50	1.178	0.05	0.347	0.409
	1	WCDMA Band IV	RMC 12.2Kbps	Back	10	Reduced Level 1	1513	1752.6	19.79	20.50	1.178	0.03	0.633	0.745
	1	WCDMA Band IV	RMC 12.2Kbps	Left Side	10	Reduced Level 1	1513	1752.6	19.79	20.50	1.178	0.01	0.075	0.089
	1	WCDMA Band IV	RMC 12.2Kbps	Right Side	10	Reduced Level 1	1513	1752.6	19.79	20.50	1.178	0.05	0.085	0.100
28	1	WCDMA Band IV	RMC 12.2Kbps	Bottom Side	10	Reduced Level 1	1513	1752.6	19.79	20.50	1.178	0.08	1.000	1.178
	1	WCDMA Band IV	RMC 12.2Kbps	Bottom Side	10	Reduced Level 1	1312	1712.4	19.62	20.50	1.225	0.01	0.897	1.098
	1	WCDMA Band IV	RMC 12.2Kbps	Bottom Side	10	Reduced Level 1	1413	1732.6	19.72	20.50	1.197	0.06	0.976	1.168
	2	WCDMA Band II	RMC 12.2Kbps	Front	10	Full	9262	1852.4	24.49	25.00	1.125	0.03	0.568	0.639
	2	WCDMA Band II	RMC 12.2Kbps	Back	10	Full	9262	1852.4	24.49	25.00	1.125	0.01	0.659	0.741
	2	WCDMA Band II	RMC 12.2Kbps	Left Side	10	Full	9262	1852.4	24.49	25.00	1.125	0.06	0.311	0.350
	2	WCDMA Band II	RMC 12.2Kbps	Top Side	10	Full	9262	1852.4	24.49	25.00	1.125	0.03	0.733	0.824
	2	WCDMA Band II	RMC 12.2Kbps	Top Side	10	Full	9400	1880	24.42	25.00	1.143	0.06	0.846	0.967
	2	WCDMA Band II	RMC 12.2Kbps	Top Side	10	Full	9538	1907.6	24.45	25.00	1.135	0.03	0.793	0.900
	1	WCDMA Band II	RMC 12.2Kbps	Front	10	Reduced Level 1	9262	1852.4	19.54	20.00	1.112	0.04	0.323	0.359
	1	WCDMA Band II	RMC 12.2Kbps	Back	10	Reduced Level 1	9262	1852.4	19.54	20.00	1.112	-0.02	0.573	0.637
	1	WCDMA Band II	RMC 12.2Kbps	Left Side	10	Reduced Level 1	9262	1852.4	19.54	20.00	1.112	0.05	0.036	0.040
	1	WCDMA Band II	RMC 12.2Kbps	Right Side	10	Reduced Level 1	9262	1852.4	19.54	20.00	1.112	0.06	0.082	0.091
	1	WCDMA Band II	RMC 12.2Kbps	Bottom Side	10	Reduced Level 1	9262	1852.4	19.54	20.00	1.112	0.03	0.874	0.972
	1	WCDMA Band II	RMC 12.2Kbps	Bottom Side	10	Reduced Level 1	9400	1880	19.52	20.00	1.117	0.07	0.949	1.060
29	1	WCDMA Band II	RMC 12.2Kbps	Bottom Side	10	Reduced Level 1	9538	1907.6	19.53	20.00	1.114	0.08	1.020	1.137



<CDMA2000 SAR>

Plot No.	Antenna	Band	Mode	Test Position	Gap (mm)	Power Reduction	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	2	CDMA2000 BC0	RTAP 153.6Kbps	Front	10	Full	384	836.52	23.88	24.50	1.153	0.03	0.461	0.532
	2	CDMA2000 BC0	RTAP 153.6Kbps	Back	10	Full	384	836.52	23.88	24.50	1.153	0.09	0.600	0.692
	2	CDMA2000 BC0	RTAP 153.6Kbps	Left Side	10	Full	384	836.52	23.88	24.50	1.153	0.05	0.111	0.128
	2	CDMA2000 BC0	RTAP 153.6Kbps	Top Side	10	Full	384	836.52	23.88	24.50	1.153	0.07	0.525	0.606
	2	CDMA2000 BC0	RTAP 153.6Kbps	Back	10	Full	1013	824.7	23.8	24.50	1.175	0.02	0.618	0.726
30	2	CDMA2000 BC0	RTAP 153.6Kbps	Back	10	Full	777	848.31	23.86	24.50	1.159	0.06	0.645	0.747
	1	CDMA2000 BC0	RTAP 153.6Kbps	Front	10	Full	384	836.52	23.88	24.50	1.153	0.1	0.271	0.313
	1	CDMA2000 BC0	RTAP 153.6Kbps	Back	10	Full	384	836.52	23.88	24.50	1.153	0.05	0.391	0.451
	1	CDMA2000 BC0	RTAP 153.6Kbps	Left Side	10	Full	384	836.52	23.88	24.50	1.153	0.02	0.223	0.257
	1	CDMA2000 BC0	RTAP 153.6Kbps	Right Side	10	Full	384	836.52	23.88	24.50	1.153	0.06	0.142	0.164
	1	CDMA2000 BC0	RTAP 153.6Kbps	Bottom Side	10	Full	384	836.52	23.88	24.50	1.153	0.03	0.203	0.234
	1	CDMA2000 BC0	RTAP 153.6Kbps	Back	10	Full	1013	824.7	23.8	24.50	1.175	0.09	0.370	0.435
	1	CDMA2000 BC0	RTAP 153.6Kbps	Back	10	Full	777	848.31	23.86	24.50	1.159	0.07	0.442	0.512
	2	CDMA2000 BC1	RTAP 153.6Kbps	Front	10	Full	1175	1908.75	23.71	24.50	1.199	0.02	0.586	0.703
	2	CDMA2000 BC1	RTAP 153.6Kbps	Back	10	Full	1175	1908.75	23.71	24.50	1.199	0.01	0.589	0.707
	2	CDMA2000 BC1	RTAP 153.6Kbps	Left Side	10	Full	1175	1908.75	23.71	24.50	1.199	-0.11	0.463	0.555
	2	CDMA2000 BC1	RTAP 153.6Kbps	Top Side	10	Full	1175	1908.75	23.71	24.50	1.199	0.09	0.716	0.859
31	2	CDMA2000 BC1	RTAP 153.6Kbps	Top Side	10	Full	25	1851.25	23.48	24.50	1.265	0.07	0.852	1.078
	2	CDMA2000 BC1	RTAP 153.6Kbps	Top Side	10	Full	600	1880	23.61	24.50	1.227	0.03	0.844	1.036
	1	CDMA2000 BC1	RTAP 153.6Kbps	Front	10	Reduced Level 1	1175	1908.75	18.51	19.00	1.119	-0.02	0.321	0.359
	1	CDMA2000 BC1	RTAP 153.6Kbps	Back	10	Reduced Level 1	1175	1908.75	18.51	19.00	1.119	-0.07	0.502	0.562
	1	CDMA2000 BC1	RTAP 153.6Kbps	Left Side	10	Reduced Level 1	1175	1908.75	18.51	19.00	1.119	0.09	0.030	0.034
	1	CDMA2000 BC1	RTAP 153.6Kbps	Right Side	10	Reduced Level 1	1175	1908.75	18.51	19.00	1.119	-0.05	0.070	0.078
	1	CDMA2000 BC1	RTAP 153.6Kbps	Bottom Side	10	Reduced Level 1	1175	1908.75	18.51	19.00	1.119	0.07	0.732	0.819
	1	CDMA2000 BC1	RTAP 153.6Kbps	Bottom Side	10	Reduced Level 1	25	1851.25	18.47	19.00	1.130	0.06	0.705	0.797
	1	CDMA2000 BC1	RTAP 153.6Kbps	Bottom Side	10	Reduced Level 1	600	1880	18.48	19.00	1.127	0.03	0.774	0.872



<FDD LTE SAR>

Plot No.	Antenna	Band	BW (MHz)	Modulation	RB Size	RB Offset	Test Position	Gap (mm)	Power Reduction	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	2	LTE Band 71	20M	QPSK	1	0	Front	10	Full	133322	683	24.49	24.80	1.074	0.08	0.419	0.450
32	2	LTE Band 71	20M	QPSK	1	0	Back	10	Full	133322	683	24.49	24.80	1.074	0.09	0.500	0.537
	2	LTE Band 71	20M	QPSK	1	0	Left Side	10	Full	133322	683	24.49	24.80	1.074	0.04	0.225	0.242
	2	LTE Band 71	20M	QPSK	1	0	Top Side	10	Full	133322	683	24.49	24.80	1.074	0.06	0.300	0.322
	2	LTE Band 71	20M	QPSK	50	0	Front	10	Full	133322	683	23.44	23.80	1.086	0.05	0.330	0.359
	2	LTE Band 71	20M	QPSK	50	0	Back	10	Full	133322	683	23.44	23.80	1.086	0.03	0.419	0.455
	2	LTE Band 71	20M	QPSK	50	0	Left Side	10	Full	133322	683	23.44	23.80	1.086	0.08	0.177	0.192
	2	LTE Band 71	20M	QPSK	50	0	Top Side	10	Full	133322	683	23.44	23.80	1.086	-0.02	0.257	0.279
	1	LTE Band 71	20M	QPSK	1	0	Front	10	Full	133322	683	24.49	24.80	1.074	0.05	0.154	0.165
	1	LTE Band 71	20M	QPSK	1	0	Back	10	Full	133322	683	24.49	24.80	1.074	0.01	0.225	0.242
	1	LTE Band 71	20M	QPSK	1	0	Left Side	10	Full	133322	683	24.49	24.80	1.074	0.06	0.186	0.200
	1	LTE Band 71	20M	QPSK	1	0	Right Side	10	Full	133322	683	24.49	24.80	1.074	0.03	0.162	0.174
	1	LTE Band 71	20M	QPSK	1	0	Bottom Side	10	Full	133322	683	24.49	24.80	1.074	0.03	0.096	0.103
	1	LTE Band 71	20M	QPSK	50	0	Front	10	Full	133322	683	23.44	23.80	1.086	0.11	0.130	0.141
	1	LTE Band 71	20M	QPSK	50	0	Back	10	Full	133322	683	23.44	23.80	1.086	0.04	0.204	0.222
	1	LTE Band 71	20M	QPSK	50	0	Left Side	10	Full	133322	683	23.44	23.80	1.086	0.05	0.179	0.194
	1	LTE Band 71	20M	QPSK	50	0	Right Side	10	Full	133322	683	23.44	23.80	1.086	0.06	0.144	0.156
	1	LTE Band 71	20M	QPSK	50	0	Bottom Side	10	Full	133322	683	23.44	23.80	1.086	0.02	0.084	0.091
	2	LTE Band 12	10M	QPSK	1	0	Front	10	Full	23095	707.5	23.95	24.50	1.135	0.03	0.395	0.448
33	2	LTE Band 12	10M	QPSK	1	0	Back	10	Full	23095	707.5	23.95	24.50	1.135	0.02	0.482	0.547
	2	LTE Band 12	10M	QPSK	1	0	Left Side	10	Full	23095	707.5	23.95	24.50	1.135	0.05	0.152	0.173
	2	LTE Band 12	10M	QPSK	1	0	Top Side	10	Full	23095	707.5	23.95	24.50	1.135	0.03	0.349	0.396
	2	LTE Band 12	10M	QPSK	25	12	Front	10	Full	23095	707.5	23.03	23.50	1.114	0.02	0.304	0.339
	2	LTE Band 12	10M	QPSK	25	12	Back	10	Full	23095	707.5	23.03	23.50	1.114	0.01	0.372	0.415
	2	LTE Band 12	10M	QPSK	25	12	Left Side	10	Full	23095	707.5	23.03	23.50	1.114	0.09	0.134	0.149
	2	LTE Band 12	10M	QPSK	25	12	Top Side	10	Full	23095	707.5	23.03	23.50	1.114	0.02	0.272	0.303
	1	LTE Band 12	10M	QPSK	1	0	Front	10	Full	23095	707.5	23.95	24.50	1.135	0.01	0.154	0.175
	1	LTE Band 12	10M	QPSK	1	0	Back	10	Full	23095	707.5	23.95	24.50	1.135	0.02	0.230	0.261
	1	LTE Band 12	10M	QPSK	1	0	Left Side	10	Full	23095	707.5	23.95	24.50	1.135	0.04	0.265	0.301
	1	LTE Band 12	10M	QPSK	1	0	Right Side	10	Full	23095	707.5	23.95	24.50	1.135	0.11	0.214	0.243
	1	LTE Band 12	10M	QPSK	1	0	Bottom Side	10	Full	23095	707.5	23.95	24.50	1.135	0.03	0.092	0.104
	1	LTE Band 12	10M	QPSK	25	12	Front	10	Full	23095	707.5	23.03	23.50	1.114	0.08	0.125	0.139
	1	LTE Band 12	10M	QPSK	25	12	Back	10	Full	23095	707.5	23.03	23.50	1.114	0.01	0.202	0.225
	1	LTE Band 12	10M	QPSK	25	12	Left Side	10	Full	23095	707.5	23.03	23.50	1.114	0.05	0.212	0.236
	1	LTE Band 12	10M	QPSK	25	12	Right Side	10	Full	23095	707.5	23.03	23.50	1.114	0.02	0.169	0.188
	1	LTE Band 12	10M	QPSK	25	12	Bottom Side	10	Full	23095	707.5	23.03	23.50	1.114	0.01	0.094	0.105



FCC SAR Test Report

Report No. : FA871004-01

Plot No.	Antenna	Band	BW (MHz)	Modulation	RB Size	RB Offset	Test Position	Gap (mm)	Power Reduction	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
34	2	LTE Band 13	10M	QPSK	1	49	Front	10	Full	23230	782	23.99	24.50	1.125	0.12	0.412	0.463
	2	LTE Band 13	10M	QPSK	1	49	Back	10	Full	23230	782	23.99	24.50	1.125	0.18	0.537	0.604
	2	LTE Band 13	10M	QPSK	1	49	Left Side	10	Full	23230	782	23.99	24.50	1.125	0.06	0.259	0.291
	2	LTE Band 13	10M	QPSK	1	49	Top Side	10	Full	23230	782	23.99	24.50	1.125	0.11	0.363	0.408
	2	LTE Band 13	10M	QPSK	25	12	Front	10	Full	23230	782	23.02	23.50	1.117	0.06	0.315	0.352
	2	LTE Band 13	10M	QPSK	25	12	Back	10	Full	23230	782	23.02	23.50	1.117	0.08	0.413	0.461
	2	LTE Band 13	10M	QPSK	25	12	Left Side	10	Full	23230	782	23.02	23.50	1.117	0.06	0.195	0.218
	2	LTE Band 13	10M	QPSK	25	12	Top Side	10	Full	23230	782	23.02	23.50	1.117	0.07	0.278	0.310
	1	LTE Band 13	10M	QPSK	1	49	Front	10	Full	23230	782	23.99	24.50	1.125	0.04	0.212	0.238
	1	LTE Band 13	10M	QPSK	1	49	Back	10	Full	23230	782	23.99	24.50	1.125	0.06	0.358	0.403
	1	LTE Band 13	10M	QPSK	1	49	Left Side	10	Full	23230	782	23.99	24.50	1.125	0.05	0.149	0.168
	1	LTE Band 13	10M	QPSK	1	49	Right Side	10	Full	23230	782	23.99	24.50	1.125	0.08	0.087	0.098
	1	LTE Band 13	10M	QPSK	1	49	Bottom Side	10	Full	23230	782	23.99	24.50	1.125	0.1	0.195	0.219
	1	LTE Band 13	10M	QPSK	25	12	Front	10	Full	23230	782	23.02	23.50	1.117	0.02	0.169	0.189
	1	LTE Band 13	10M	QPSK	25	12	Back	10	Full	23230	782	23.02	23.50	1.117	0.09	0.284	0.317
	1	LTE Band 13	10M	QPSK	25	12	Left Side	10	Full	23230	782	23.02	23.50	1.117	0.06	0.150	0.168
	1	LTE Band 13	10M	QPSK	25	12	Right Side	10	Full	23230	782	23.02	23.50	1.117	0.09	0.073	0.082
	1	LTE Band 13	10M	QPSK	25	12	Bottom Side	10	Full	23230	782	23.02	23.50	1.117	0.01	0.154	0.172



Plot No.	Antenna	Band	BW (MHz)	Modulation	RB Size	RB Offset	Test Position	Gap (mm)	Power Reduction	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
35	2	LTE Band 5	10M	QPSK	1	0	Front	10	Full	20525	836.5	24.11	24.50	1.094	0.05	0.221	0.242
	2	LTE Band 5	10M	QPSK	1	0	Back	10	Full	20525	836.5	24.11	24.50	1.094	0.07	0.581	0.636
	2	LTE Band 5	10M	QPSK	1	0	Left Side	10	Full	20525	836.5	24.11	24.50	1.094	0.05	0.183	0.200
	2	LTE Band 5	10M	QPSK	1	0	Top Side	10	Full	20525	836.5	24.11	24.50	1.094	0.04	0.422	0.462
	2	LTE Band 5	10M	QPSK	25	12	Front	10	Full	20525	836.5	23.2	23.50	1.072	0.06	0.187	0.200
	2	LTE Band 5	10M	QPSK	25	12	Back	10	Full	20525	836.5	23.2	23.50	1.072	0.02	0.533	0.571
	2	LTE Band 5	10M	QPSK	25	12	Left Side	10	Full	20525	836.5	23.2	23.50	1.072	0.04	0.127	0.136
	2	LTE Band 5	10M	QPSK	25	12	Top Side	10	Full	20525	836.5	23.2	23.50	1.072	0.02	0.357	0.383
	1	LTE Band 5	10M	QPSK	1	0	Front	10	Full	20525	836.5	24.11	24.50	1.094	-0.03	0.302	0.330
	1	LTE Band 5	10M	QPSK	1	0	Back	10	Full	20525	836.5	24.11	24.50	1.094	0.04	0.432	0.473
	1	LTE Band 5	10M	QPSK	1	0	Left Side	10	Full	20525	836.5	24.11	24.50	1.094	0.04	0.207	0.226
	1	LTE Band 5	10M	QPSK	1	0	Right Side	10	Full	20525	836.5	24.11	24.50	1.094	0.03	0.165	0.181
	1	LTE Band 5	10M	QPSK	1	0	Bottom Side	10	Full	20525	836.5	24.11	24.50	1.094	0.02	0.219	0.240
	1	LTE Band 5	10M	QPSK	25	12	Front	10	Full	20525	836.5	23.2	23.50	1.072	-0.03	0.245	0.263
	1	LTE Band 5	10M	QPSK	25	12	Back	10	Full	20525	836.5	23.2	23.50	1.072	0.04	0.356	0.381
	1	LTE Band 5	10M	QPSK	25	12	Left Side	10	Full	20525	836.5	23.2	23.50	1.072	0.09	0.158	0.169
	1	LTE Band 5	10M	QPSK	25	12	Right Side	10	Full	20525	836.5	23.2	23.50	1.072	0.05	0.090	0.096
	1	LTE Band 5	10M	QPSK	25	12	Bottom Side	10	Full	20525	836.5	23.2	23.50	1.072	0.02	0.172	0.184
	2	LTE Band 26	15M	QPSK	1	0	Front	10	Full	26965	841.5	23.67	24.00	1.079	0.03	0.395	0.426
	2	LTE Band 26	15M	QPSK	1	0	Back	10	Full	26965	841.5	23.67	24.00	1.079	0.09	0.524	0.565
	2	LTE Band 26	15M	QPSK	1	0	Left Side	10	Full	26965	841.5	23.67	24.00	1.079	0.06	0.183	0.197
	2	LTE Band 26	15M	QPSK	1	0	Top Side	10	Full	26965	841.5	23.67	24.00	1.079	0.04	0.351	0.379
36	2	LTE Band 26	15M	QPSK	1	0	Back	10	Full	26765	821.5	23.43	24.00	1.140	0.08	0.523	0.596
	2	LTE Band 26	15M	QPSK	1	0	Back	10	Full	26865	831.5	23.53	24.00	1.114	0.08	0.305	0.340
	2	LTE Band 26	15M	QPSK	36	0	Front	10	Full	26965	841.5	22.75	23.00	1.059	0.05	0.334	0.354
	2	LTE Band 26	15M	QPSK	36	0	Back	10	Full	26965	841.5	22.75	23.00	1.059	0.03	0.432	0.458
	2	LTE Band 26	15M	QPSK	36	0	Left Side	10	Full	26965	841.5	22.75	23.00	1.059	0.04	0.142	0.150
	2	LTE Band 26	15M	QPSK	36	0	Top Side	10	Full	26965	841.5	22.75	23.00	1.059	-0.05	0.290	0.307
	1	LTE Band 26	15M	QPSK	1	0	Front	10	Full	26965	841.5	23.67	24.00	1.079	-0.05	0.245	0.264
	1	LTE Band 26	15M	QPSK	1	0	Back	10	Full	26965	841.5	23.67	24.00	1.079	0.09	0.382	0.412
	1	LTE Band 26	15M	QPSK	1	0	Left Side	10	Full	26965	841.5	23.67	24.00	1.079	0.04	0.206	0.222
	1	LTE Band 26	15M	QPSK	1	0	Right Side	10	Full	26965	841.5	23.67	24.00	1.079	0.06	0.125	0.135
	1	LTE Band 26	15M	QPSK	1	0	Bottom Side	10	Full	26965	841.5	23.67	24.00	1.079	0.07	0.176	0.190
	1	LTE Band 26	15M	QPSK	1	0	Back	10	Full	26765	821.5	23.43	24.00	1.140	0.02	0.310	0.353
	1	LTE Band 26	15M	QPSK	1	0	Back	10	Full	26865	831.5	23.53	24.00	1.114	0.02	0.319	0.355
	1	LTE Band 26	15M	QPSK	36	0	Front	10	Full	26965	841.5	22.75	23.00	1.059	0.04	0.212	0.225
	1	LTE Band 26	15M	QPSK	36	0	Back	10	Full	26965	841.5	22.75	23.00	1.059	0.06	0.310	0.328
	1	LTE Band 26	15M	QPSK	36	0	Left Side	10	Full	26965	841.5	22.75	23.00	1.059	0.01	0.159	0.168
	1	LTE Band 26	15M	QPSK	36	0	Right Side	10	Full	26965	841.5	22.75	23.00	1.059	0.01	0.096	0.102
	1	LTE Band 26	15M	QPSK	36	0	Bottom Side	10	Full	26965	841.5	22.75	23.00	1.059	-0.03	0.143	0.151



Plot No.	Antenna	Band	BW (MHz)	Modulation	RB Size	RB Offset	Test Position	Gap (mm)	Power Reduction	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	2	LTE Band 66	20M	QPSK	1	0	Front	10	Full	132322	1745	24.14	24.50	1.086	0.06	0.211	0.229
	2	LTE Band 66	20M	QPSK	1	0	Back	10	Full	132322	1745	24.14	24.50	1.086	0.07	0.744	0.808
	2	LTE Band 66	20M	QPSK	1	0	Left Side	10	Full	132322	1745	24.14	24.50	1.086	0.03	0.134	0.146
	2	LTE Band 66	20M	QPSK	1	0	Top Side	10	Full	132322	1745	24.14	24.50	1.086	0.04	0.729	0.792
	2	LTE Band 66	20M	QPSK	1	0	Back	10	Full	132072	1720	23.88	24.50	1.153	0.09	0.484	0.558
	2	LTE Band 66	20M	QPSK	1	0	Back	10	Full	132572	1770	23.95	24.50	1.135	0.04	0.585	0.664
	2	LTE Band 66	20M	QPSK	50	0	Front	10	Full	132322	1745	23.13	23.50	1.089	0.05	0.170	0.185
	2	LTE Band 66	20M	QPSK	50	0	Back	10	Full	132322	1745	23.13	23.50	1.089	0.01	0.582	0.634
	2	LTE Band 66	20M	QPSK	50	0	Left Side	10	Full	132322	1745	23.13	23.50	1.089	0.02	0.216	0.235
	2	LTE Band 66	20M	QPSK	50	0	Top Side	10	Full	132322	1745	23.13	23.50	1.089	0.06	0.629	0.685
	2	LTE Band 66	20M	QPSK	100	0	Back	10	Full	132322	1745	23.00	23.50	1.122	0.05	0.320	0.359
	1	LTE Band 66	20M	QPSK	1	0	Front	10	Reduced Level 1	132322	1745	19.58	20.00	1.102	0.03	0.375	0.413
	1	LTE Band 66	20M	QPSK	1	0	Back	10	Reduced Level 1	132322	1745	19.58	20.00	1.102	0.01	0.574	0.632
	1	LTE Band 66	20M	QPSK	1	0	Left Side	10	Reduced Level 1	132322	1745	19.58	20.00	1.102	-0.07	0.085	0.094
	1	LTE Band 66	20M	QPSK	1	0	Right Side	10	Reduced Level 1	132322	1745	19.58	20.00	1.102	0.03	0.291	0.321
	1	LTE Band 66	20M	QPSK	1	0	Bottom Side	10	Reduced Level 1	132322	1745	19.58	20.00	1.102	0.06	0.935	1.030
	1	LTE Band 66	20M	QPSK	1	0	Bottom Side	10	Reduced Level 1	132072	1720	19.35	20.00	1.161	0.05	0.786	0.913
	1	LTE Band 66	20M	QPSK	1	0	Bottom Side	10	Reduced Level 1	132572	1770	19.49	20.00	1.125	0.04	0.747	0.840
	1	LTE Band 66	20M	QPSK	50	0	Front	10	Reduced Level 1	132322	1745	19.4	20.00	1.148	0.05	0.323	0.371
	1	LTE Band 66	20M	QPSK	50	0	Back	10	Reduced Level 1	132322	1745	19.4	20.00	1.148	0.02	0.547	0.628
	1	LTE Band 66	20M	QPSK	50	0	Left Side	10	Reduced Level 1	132322	1745	19.4	20.00	1.148	0.06	0.078	0.089
	1	LTE Band 66	20M	QPSK	50	0	Right Side	10	Reduced Level 1	132322	1745	19.4	20.00	1.148	0.01	0.225	0.258
37	1	LTE Band 66	20M	QPSK	50	0	Bottom Side	10	Reduced Level 1	132322	1745	19.4	20.00	1.148	0.08	0.952	1.093
	1	LTE Band 66	20M	QPSK	50	0	Bottom Side	10	Reduced Level 1	132072	1720	19.27	20.00	1.183	0.08	0.627	0.742
	1	LTE Band 66	20M	QPSK	50	0	Bottom Side	10	Reduced Level 1	132572	1770	19.3	20.00	1.175	0.04	0.742	0.872
	1	LTE Band 66	20M	QPSK	100	0	Bottom Side	10	Reduced Level 1	132322	1745	19.31	20.00	1.172	0.02	0.821	0.962
	2	LTE Band 25	20M	QPSK	1	0	Front	10	Full	26590	1905	23.55	24.00	1.109	0.05	0.522	0.579
	2	LTE Band 25	20M	QPSK	1	0	Back	10	Full	26590	1905	23.55	24.00	1.109	0.06	0.689	0.764
	2	LTE Band 25	20M	QPSK	1	0	Left Side	10	Full	26590	1905	23.55	24.00	1.109	0.02	0.334	0.370
	2	LTE Band 25	20M	QPSK	1	0	Top Side	10	Full	26590	1905	23.55	24.00	1.109	0.03	0.686	0.761
	2	LTE Band 25	20M	QPSK	1	0	Back	10	Full	26140	1860	23.25	24.00	1.189	0.01	0.480	0.570
	2	LTE Band 25	20M	QPSK	1	0	Back	10	Full	26340	1880	23.3	24.00	1.175	0.07	0.561	0.659
	2	LTE Band 25	20M	QPSK	50	0	Front	10	Full	26590	1905	22.72	23.00	1.067	0.07	0.419	0.447
	2	LTE Band 25	20M	QPSK	50	0	Back	10	Full	26590	1905	22.72	23.00	1.067	0.07	0.558	0.595
	2	LTE Band 25	20M	QPSK	50	0	Left Side	10	Full	26590	1905	22.72	23.00	1.067	0.04	0.276	0.294
	2	LTE Band 25	20M	QPSK	50	0	Top Side	10	Full	26590	1905	22.72	23.00	1.067	0.13	0.536	0.572
	1	LTE Band 25	20M	QPSK	1	0	Front	10	Reduced Level 1	26590	1905	20.15	20.50	1.084	0.02	0.427	0.463
	1	LTE Band 25	20M	QPSK	1	0	Back	10	Reduced Level 1	26590	1905	20.15	20.50	1.084	0.05	0.653	0.708
	1	LTE Band 25	20M	QPSK	1	0	Left Side	10	Reduced Level 1	26590	1905	20.15	20.50	1.084	0.02	0.062	0.067
	1	LTE Band 25	20M	QPSK	1	0	Right Side	10	Reduced Level 1	26590	1905	20.15	20.50	1.084	-0.07	0.114	0.124
	1	LTE Band 25	20M	QPSK	1	0	Bottom Side	10	Reduced Level 1	26590	1905	20.15	20.50	1.084	0.05	1.080	1.171
	1	LTE Band 25	20M	QPSK	1	0	Bottom Side	10	Reduced Level 1	26140	1860	19.89	20.50	1.151	0.03	0.937	1.078
	1	LTE Band 25	20M	QPSK	1	0	Bottom Side	10	Reduced Level 1	26340	1880	19.82	20.50	1.169	0.02	0.970	1.134
	1	LTE Band 25	20M	QPSK	50	0	Front	10	Reduced Level 1	26590	1905	19.93	20.50	1.140	0.06	0.396	0.452
	1	LTE Band 25	20M	QPSK	50	0	Back	10	Reduced Level 1	26590	1905	19.93	20.50	1.140	0.05	0.635	0.724
	1	LTE Band 25	20M	QPSK	50	0	Left Side	10	Reduced Level 1	26590	1905	19.93	20.50	1.140	0.01	0.063	0.072
	1	LTE Band 25	20M	QPSK	50	0	Right Side	10	Reduced Level 1	26590	1905	19.93	20.50	1.140	0.06	0.109	0.124
	1	LTE Band 25	20M	QPSK	50	0	Bottom Side	10	Reduced Level 1	26590	1905	19.93	20.50	1.140	0.06	1.090	1.243
	1	LTE Band 25	20M	QPSK	50	0	Bottom Side	10	Reduced Level 1	26140	1860	19.63	20.50	1.222	0.09	0.953	1.164
	1	LTE Band 25	20M	QPSK	50	0	Bottom Side	10	Reduced Level 1	26340	1880	19.62	20.50	1.225	0.03	0.982	1.203
38	1	LTE Band 25	20M	QPSK	100	0	Bottom Side	10	Reduced Level 1	26590	1905	19.86	20.50	1.159	0.01	1.080	1.251



FCC SAR Test Report

Report No. : FA871004-01

Plot No.	Antenna	Band	BW (MHz)	Modulation	RB Size	RB Offset	Test Position	Gap (mm)	Power Reduction	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	2	LTE Band 2	20M	QPSK	1	0	Front	10	Full	19100	1900	23.87	24.50	1.156	0.04	0.557	0.644
	2	LTE Band 2	20M	QPSK	1	0	Back	10	Full	19100	1900	23.87	24.50	1.156	0.02	0.703	0.813
	2	LTE Band 2	20M	QPSK	1	0	Left Side	10	Full	19100	1900	23.87	24.50	1.156	0.06	0.362	0.419
	2	LTE Band 2	20M	QPSK	1	0	Top Side	10	Full	19100	1900	23.87	24.50	1.156	0.07	0.769	0.889
	2	LTE Band 2	20M	QPSK	1	0	Back	10	Full	18700	1860	23.45	24.50	1.274	0.01	0.616	0.784
	2	LTE Band 2	20M	QPSK	1	0	Back	10	Full	18900	1880	23.44	24.50	1.276	0.09	0.639	0.816
	2	LTE Band 2	20M	QPSK	1	0	Top Side	10	Full	18700	1860	23.45	24.50	1.274	0.06	0.697	0.888
	2	LTE Band 2	20M	QPSK	1	0	Top Side	10	Full	18900	1880	23.44	24.50	1.276	0.09	0.733	0.936
	2	LTE Band 2	20M	QPSK	50	0	Front	10	Full	19100	1900	22.78	23.50	1.180	0.02	0.444	0.524
	2	LTE Band 2	20M	QPSK	50	0	Back	10	Full	19100	1900	22.78	23.50	1.180	-0.05	0.550	0.649
	2	LTE Band 2	20M	QPSK	50	0	Left Side	10	Full	19100	1900	22.78	23.50	1.180	0.03	0.267	0.315
	2	LTE Band 2	20M	QPSK	50	0	Top Side	10	Full	19100	1900	22.78	23.50	1.180	0.04	0.551	0.650
	2	LTE Band 2	20M	QPSK	100	0	Back	10	Full	19100	1900	22.76	23.50	1.186	0.06	0.564	0.669
	2	LTE Band 2	20M	QPSK	100	0	Top Side	10	Full	19100	1900	22.76	23.50	1.186	0.01	0.562	0.666
	1	LTE Band 2	20M	QPSK	1	0	Front	10	Reduced Level 1	19100	1900	20.69	21.00	1.074	0.03	0.411	0.441
	1	LTE Band 2	20M	QPSK	1	0	Back	10	Reduced Level 1	19100	1900	20.69	21.00	1.074	0.02	0.643	0.691
	1	LTE Band 2	20M	QPSK	1	0	Left Side	10	Reduced Level 1	19100	1900	20.69	21.00	1.074	0.04	0.123	0.132
	1	LTE Band 2	20M	QPSK	1	0	Right Side	10	Reduced Level 1	19100	1900	20.69	21.00	1.074	-0.08	0.356	0.382
	1	LTE Band 2	20M	QPSK	1	0	Bottom Side	10	Reduced Level 1	19100	1900	20.69	21.00	1.074	0.06	1.190	1.278
	1	LTE Band 2	20M	QPSK	1	0	Bottom Side	10	Reduced Level 1	18700	1860	20.13	21.00	1.222	0.03	0.977	1.194
	1	LTE Band 2	20M	QPSK	1	0	Bottom Side	10	Reduced Level 1	18900	1880	20.25	21.00	1.189	0.07	1.030	1.224
	1	LTE Band 2	20M	QPSK	50	0	Front	10	Reduced Level 1	19100	1900	20.46	21.00	1.132	0.02	0.373	0.422
	1	LTE Band 2	20M	QPSK	50	0	Back	10	Reduced Level 1	19100	1900	20.46	21.00	1.132	0.01	0.577	0.653
	1	LTE Band 2	20M	QPSK	50	0	Left Side	10	Reduced Level 1	19100	1900	20.46	21.00	1.132	0.05	0.098	0.111
	1	LTE Band 2	20M	QPSK	50	0	Right Side	10	Reduced Level 1	19100	1900	20.46	21.00	1.132	-0.06	0.279	0.316
	1	LTE Band 2	20M	QPSK	50	0	Bottom Side	10	Reduced Level 1	19100	1900	20.46	21.00	1.132	0.08	1.050	1.189
	1	LTE Band 2	20M	QPSK	50	0	Bottom Side	10	Reduced Level 1	18700	1860	20.08	21.00	1.236	0.02	1.000	1.236
	1	LTE Band 2	20M	QPSK	50	0	Bottom Side	10	Reduced Level 1	18900	1880	20.12	21.00	1.225	0.08	1.040	1.274
39	1	LTE Band 2	20M	QPSK	100	0	Bottom Side	10	Reduced Level 1	19100	1900	20.44	21.00	1.138	0.05	1.160	1.320



Plot No.	Antenna	Band	BW (MHz)	Modulation	RB Size	RB Offset	Test Position	Gap (mm)	Power Reduction	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
40	3	LTE Band 30	10M	QPSK	1	0	Front	10	Full	27710	2310	23.26	24.00	1.186	0.04	0.427	0.506
	3	LTE Band 30	10M	QPSK	1	0	Back	10	Full	27710	2310	23.26	24.00	1.186	-0.08	0.740	0.877
	3	LTE Band 30	10M	QPSK	1	0	Left Side	10	Full	27710	2310	23.26	24.00	1.186	0.03	0.618	0.733
	3	LTE Band 30	10M	QPSK	1	0	Top Side	10	Full	27710	2310	23.26	24.00	1.186	-0.02	0.124	0.147
	3	LTE Band 30	10M	QPSK	25	0	Front	10	Full	27710	2310	22.19	23.00	1.205	0.03	0.329	0.396
	3	LTE Band 30	10M	QPSK	25	0	Back	10	Full	27710	2310	22.19	23.00	1.205	-0.11	0.627	0.756
	3	LTE Band 30	10M	QPSK	25	0	Left Side	10	Full	27710	2310	22.19	23.00	1.205	0.05	0.496	0.598
	3	LTE Band 30	10M	QPSK	25	0	Top Side	10	Full	27710	2310	22.19	23.00	1.205	-0.03	0.093	0.113
	3	LTE Band 30	10M	QPSK	50	0	Back	10	Full	27710	2310	22.17	23.00	1.211	0.05	0.583	0.706
	3	LTE Band 7	20M	QPSK	1	0	Front	10	Full	21350	2560	23.69	24.00	1.074	0.03	0.347	0.373
	3	LTE Band 7	20M	QPSK	1	0	Back	10	Full	21350	2560	23.69	24.00	1.074	-0.07	0.816	0.876
	3	LTE Band 7	20M	QPSK	1	0	Left Side	10	Full	21350	2560	23.69	24.00	1.074	0.09	0.834	0.896
	3	LTE Band 7	20M	QPSK	1	0	Top Side	10	Full	21350	2560	23.69	24.00	1.074	0.01	0.122	0.131
	3	LTE Band 7	20M	QPSK	1	0	Back	10	Full	20850	2510	23.64	24.00	1.086	-0.1	0.765	0.831
	3	LTE Band 7	20M	QPSK	1	0	Back	10	Full	21100	2535	23.65	24.00	1.084	-0.1	0.804	0.871
	3	LTE Band 7	20M	QPSK	1	0	Left Side	10	Full	20850	2510	23.64	24.00	1.086	-0.04	0.827	0.898
41	3	LTE Band 7	20M	QPSK	1	0	Left Side	10	Full	21100	2535	23.65	24.00	1.084	-0.06	0.840	0.910
	3	LTE Band 7	20M	QPSK	1	0	Left Side	10	Full	21100(PCC) + 20902(SCC)	2535(PCC) + 2515.2(SCC)	23.41	24.00	1.146	-0.07	0.754	0.864
	3	LTE Band 7	20M	QPSK	1	0	Left Side	10	Full	20850(PCC) + 21048(SCC)	2510(PCC) + 2529.8(SCC)	23.15	24.00	1.216	0.09	0.657	0.799
	3	LTE Band 7	20M	QPSK	1	0	Left Side	10	Full	21350(PCC) + 21152(SCC)	2560(PCC) + 2540.2(SCC)	23.48	24.00	1.127	0.01	0.802	0.904
	3	LTE Band 7	20M	QPSK	50	0	Front	10	Full	21350	2560	22.63	23.00	1.089	0.04	0.293	0.319
	3	LTE Band 7	20M	QPSK	50	0	Back	10	Full	21350	2560	22.63	23.00	1.089	0.06	0.626	0.682
	3	LTE Band 7	20M	QPSK	50	0	Left Side	10	Full	21350	2560	22.63	23.00	1.089	0.01	0.652	0.710
	3	LTE Band 7	20M	QPSK	50	0	Top Side	10	Full	21350	2560	22.63	23.00	1.089	-0.05	0.098	0.106
	3	LTE Band 7	20M	QPSK	100	0	Back	10	Full	21350	2560	22.61	23.00	1.094	0.05	0.661	0.723
	3	LTE Band 7	20M	QPSK	100	0	Left Side	10	Full	21350	2560	22.61	23.00	1.094	-0.05	0.657	0.719



<TDD LTE SAR>

Plot No.	Antenna	Band	BW (MHz)	Modulation	RB Size	RB Offset	Test Position	Gap (mm)	Power Reduction	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	3	LTE Band 41	20M	QPSK	1	0	Front	10	Full	41055	2636.5	23.36	24.00	1.159	62.9	1.006	0.05	0.202	0.235
	3	LTE Band 41	20M	QPSK	1	0	Back	10	Full	41055	2636.5	23.36	24.00	1.159	62.9	1.006	-0.01	0.538	0.627
	3	LTE Band 41	20M	QPSK	1	0	Left Side	10	Full	41055	2636.5	23.36	24.00	1.159	62.9	1.006	-0.1	0.578	0.674
	3	LTE Band 41	20M	QPSK	1	0	Top Side	10	Full	41055	2636.5	23.36	24.00	1.159	62.9	1.006	-0.05	0.047	0.055
	3	LTE Band 41	20M	QPSK	1	0	Back	10	Full	39750	2506	22.87	24.00	1.297	62.9	1.006	-0.02	0.399	0.521
	3	LTE Band 41	20M	QPSK	1	0	Back	10	Full	40185	2549.5	22.97	24.00	1.268	62.9	1.006	-0.07	0.443	0.565
	3	LTE Band 41	20M	QPSK	1	0	Back	10	Full	40620	2593	22.94	24.00	1.276	62.9	1.006	-0.01	0.459	0.589
	3	LTE Band 41	20M	QPSK	1	0	Back	10	Full	41490	2680	23.29	24.00	1.178	62.9	1.006	0.07	0.476	0.564
	3	LTE Band 41	20M	QPSK	1	0	Left Side	10	Full	39750	2506	22.87	24.00	1.297	62.9	1.006	-0.16	0.496	0.647
	3	LTE Band 41	20M	QPSK	1	0	Left Side	10	Full	40185	2549.5	22.97	24.00	1.268	62.9	1.006	-0.13	0.512	0.653
42	3	LTE Band 41	20M	QPSK	1	0	Left Side	10	Full	40620	2593	22.94	24.00	1.276	62.9	1.006	-0.12	0.553	0.710
	3	LTE Band 41	20M	QPSK	1	0	Left Side	10	Full	41490	2680	23.29	24.00	1.178	62.9	1.006	-0.15	0.538	0.637
	3	LTE Band 41	20M	QPSK	1	0	Left Side	10	Full	40620(PCC) + 40422(SCC)	2593(PCC) + 2573.2(SCC)	23.32	24.00	1.169	62.9	1.006	0.04	0.341	0.401
	3	LTE Band 41	20M	QPSK	50	0	Front	10	Full	41055	2636.5	22.52	23.00	1.117	62.9	1.006	0.03	0.156	0.175
	3	LTE Band 41	20M	QPSK	50	0	Back	10	Full	41055	2636.5	22.52	23.00	1.117	62.9	1.006	0.05	0.451	0.507
	3	LTE Band 41	20M	QPSK	50	0	Left Side	10	Full	41055	2636.5	22.52	23.00	1.117	62.9	1.006	0.04	0.450	0.506
	3	LTE Band 41	20M	QPSK	50	0	Top Side	10	Full	41055	2636.5	22.52	23.00	1.117	62.9	1.006	0.09	0.036	0.040
	3	LTE Band 41	20M	QPSK	100	0	Back	10	Full	41055	2636.5	22.38	23.00	1.153	62.9	1.006	-0.02	0.431	0.500
	3	LTE Band 41	20M	QPSK	100	0	Left Side	10	Full	41055	2636.5	22.38	23.00	1.153	62.9	1.006	0.06	0.439	0.509



<WLAN 2.4GHz SAR>

Plot No.	Antenna	Band	Mode	Test Position	Gap (mm)	Power Reduction	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	1	WLAN2.4GHz	802.11b 1Mbps	Front	10	Full	6	2437	19.03	19.5	1.114	99.31	1.007	0.05	0.167	0.187
	1	WLAN2.4GHz	802.11b 1Mbps	Back	10	Full	6	2437	19.03	19.5	1.114	99.31	1.007	0.01	0.161	0.181
43	1	WLAN2.4GHz	802.11b 1Mbps	Right Side	10	Full	6	2437	19.03	19.5	1.114	99.31	1.007	0.13	0.245	0.275
	1	WLAN2.4GHz	802.11b 1Mbps	Top Side	10	Full	6	2437	19.03	19.5	1.114	99.31	1.007	0.06	0.116	0.130
	1	WLAN2.4GHz	802.11b 1Mbps	Right Side	10	Full	1	2412	18.6	19.5	1.230	99.31	1.007	0.07	0.167	0.207
	1	WLAN2.4GHz	802.11b 1Mbps	Right Side	10	Full	11	2462	18.84	19.5	1.164	99.31	1.007	0.05	0.222	0.260
	2	WLAN2.4GHz	802.11b 1Mbps	Front	10	Full	6	2437	16.24	16.5	1.062	99.34	1.007	0.09	0.096	0.103
	2	WLAN2.4GHz	802.11b 1Mbps	Back	10	Full	6	2437	16.24	16.5	1.062	99.34	1.007	-0.16	0.175	0.187
44	2	WLAN2.4GHz	802.11b 1Mbps	Left Side	10	Full	6	2437	16.24	16.5	1.062	99.34	1.007	0.03	0.196	0.210
	2	WLAN2.4GHz	802.11b 1Mbps	Top Side	10	Full	6	2437	16.24	16.5	1.062	99.34	1.007	-0.02	0.072	0.077
	2	WLAN2.4GHz	802.11b 1Mbps	Left Side	10	Full	1	2412	15.77	16.5	1.183	99.34	1.007	0.01	0.153	0.182
	2	WLAN2.4GHz	802.11b 1Mbps	Left Side	10	Full	11	2462	15.87	16.5	1.156	99.34	1.007	0.05	0.173	0.201

<WLAN 5GHz SAR>

Plot No.	Antenna	Band	Mode	Test Position	Gap (mm)	Power Reduction	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	1+2	WLAN5.2GHz	802.11n-HT40 MCS0	Front	10	Full	46	5230	20.46	20.50	1.010	96.46	1.037	0.02	0.102	0.107
45	1+2	WLAN5.2GHz	802.11n-HT40 MCS0	Back	10	Full	46	5230	20.46	20.50	1.010	96.46	1.037	0.08	0.641	0.671
	1+2	WLAN5.2GHz	802.11n-HT40 MCS0	Right Side	10	Full	46	5230	20.46	20.50	1.010	96.46	1.037	0.06	0.256	0.268
	1+2	WLAN5.2GHz	802.11n-HT40 MCS0	Top Side	10	Full	46	5230	20.46	20.50	1.010	96.46	1.037	0.02	0.114	0.119
	1+2	WLAN5.2GHz	802.11n-HT40 MCS0	Back	10	Full	38	5190	20.41	20.50	1.021	96.46	1.037	-0.06	0.632	0.669
	1+2	WLAN5.8GHz	802.11n-HT40 MCS0	Front	10	Full	159	5795	17.96	18.00	1.009	96.46	1.037	0.04	0.072	0.076
	1+2	WLAN5.8GHz	802.11n-HT40 MCS0	Back	10	Full	159	5795	17.96	18.00	1.009	96.46	1.037	0.01	0.501	0.524
	1+2	WLAN5.8GHz	802.11n-HT40 MCS0	Right Side	10	Full	159	5795	17.96	18.00	1.009	96.46	1.037	-0.03	0.205	0.214
	1+2	WLAN5.8GHz	802.11n-HT40 MCS0	Top Side	10	Full	159	5795	17.96	18.00	1.009	96.46	1.037	-0.05	0.066	0.069
46	1+2	WLAN5.8GHz	802.11n-HT40 MCS0	Back	10	Full	151	5755	17.67	18.00	1.079	96.46	1.037	-0.01	0.561	0.627

<Bluetooth SAR>

Plot No.	Antenna	Band	Mode	Test Position	Gap (mm)	Power Reduction	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	1	Bluetooth	1Mbps	Front	10	Full	0	2402	12.73	13.10	1.088	76.84	1.084	0.06	0.034	0.040
	1	Bluetooth	1Mbps	Back	10	Full	0	2402	12.73	13.10	1.088	76.84	1.084	0.04	0.033	0.039
	1	Bluetooth	1Mbps	Right Side	10	Full	0	2402	12.73	13.10	1.088	76.84	1.084	0.07	0.065	0.077
	1	Bluetooth	1Mbps	Top Side	10	Full	0	2402	12.73	13.10	1.088	76.84	1.084	0.03	0.022	0.025
47	1	Bluetooth	1Mbps	Right Side	10	Full	39	2441	12.71	13.10	1.094	76.84	1.084	0.07	0.080	0.095
	1	Bluetooth	1Mbps	Right Side	10	Full	78	2480	12.18	13.10	1.236	76.84	1.084	0.07	0.068	0.091



14.3 Body Worn Accessory SAR

<GSM SAR>

Plot No.	Antenna	Band	Mode	Test Position	Gap (mm)	Power Reduction	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	2	GSM850	GPRS(3 Tx slots)	Front	15	Full	251	848.8	29.18	29.80	1.153	0.03	0.188	0.217
	2	GSM850	GPRS(3 Tx slots)	Back	15	Full	251	848.8	29.18	29.80	1.153	0.03	0.223	0.257
	2	GSM850	GPRS(3 Tx slots)	Back	15	Full	128	824.2	28.88	29.80	1.236	0.02	0.221	0.273
48	2	GSM850	GPRS(3 Tx slots)	Back	15	Full	189	836.4	29.05	29.80	1.189	0.04	0.236	0.280
	1	GSM850	GPRS(3 Tx slots)	Front	15	Full	251	848.8	29.18	29.80	1.153	0.02	0.181	0.209
	1	GSM850	GPRS(3 Tx slots)	Back	15	Full	251	848.8	29.18	29.80	1.153	0.03	0.198	0.228
	1	GSM850	GPRS(3 Tx slots)	Back	15	Full	128	824.2	28.88	29.80	1.236	0.01	0.220	0.272
	1	GSM850	GPRS(3 Tx slots)	Back	15	Full	189	836.4	29.05	29.80	1.189	0.08	0.190	0.226
	2	GSM1900	GPRS(3 Tx slots)	Front	15	Full	810	1909.8	25.31	26.00	1.172	0.03	0.102	0.120
	2	GSM1900	GPRS(3 Tx slots)	Back	15	Full	810	1909.8	25.31	26.00	1.172	0.04	0.126	0.148
	2	GSM1900	GPRS(3 Tx slots)	Back	15	Full	512	1850.2	25.18	26.00	1.208	0.01	0.132	0.159
	2	GSM1900	GPRS(3 Tx slots)	Back	15	Full	661	1880	25.29	26.00	1.178	-0.02	0.138	0.163
	1	GSM1900	GPRS(3 Tx slots)	Front	15	Full	810	1909.8	25.31	26.00	1.172	0.1	0.214	0.251
49	1	GSM1900	GPRS(3 Tx slots)	Back	15	Full	810	1909.8	25.31	26.00	1.172	-0.06	0.330	0.387
	1	GSM1900	GPRS(3 Tx slots)	Back	15	Full	512	1850.2	25.18	26.00	1.208	0.01	0.320	0.387
	1	GSM1900	GPRS(3 Tx slots)	Back	15	Full	661	1880	25.29	26.00	1.178	-0.03	0.317	0.373

<WCDMA SAR>

Plot No.	Antenna	Band	Mode	Test Position	Gap (mm)	Power Reduction	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	2	WCDMA Band V	RMC 12.2Kbps	Front	15	Full	4182	836.4	23.92	24.50	1.143	0.06	0.221	0.253
	2	WCDMA Band V	RMC 12.2Kbps	Back	15	Full	4182	836.4	23.92	24.50	1.143	-0.05	0.263	0.301
	2	WCDMA Band V	RMC 12.2Kbps	Back	15	Full	4132	826.4	23.88	24.50	1.153	0.01	0.268	0.309
50	2	WCDMA Band V	RMC 12.2Kbps	Back	15	Full	4233	846.6	23.89	24.50	1.151	-0.15	0.275	0.316
	1	WCDMA Band V	RMC 12.2Kbps	Front	15	Full	4182	836.4	23.92	24.50	1.143	0.06	0.188	0.215
	1	WCDMA Band V	RMC 12.2Kbps	Back	15	Full	4182	836.4	23.92	24.50	1.143	0.06	0.220	0.251
	1	WCDMA Band V	RMC 12.2Kbps	Back	15	Full	4132	826.4	23.88	24.50	1.153	0.03	0.216	0.249
	1	WCDMA Band V	RMC 12.2Kbps	Back	15	Full	4233	846.6	23.89	24.50	1.151	0.05	0.217	0.250
	2	WCDMA Band IV	RMC 12.2Kbps	Front	15	Full	1513	1752.6	24.63	25.00	1.089	0.03	0.259	0.282
	2	WCDMA Band IV	RMC 12.2Kbps	Back	15	Full	1513	1752.6	24.63	25.00	1.089	0.05	0.335	0.365
	2	WCDMA Band IV	RMC 12.2Kbps	Back	15	Full	1312	1712.4	24.41	25.00	1.146	0.01	0.292	0.334
	2	WCDMA Band IV	RMC 12.2Kbps	Back	15	Full	1413	1732.6	24.61	25.00	1.094	-0.05	0.321	0.351
	1	WCDMA Band IV	RMC 12.2Kbps	Front	15	Full	1513	1752.6	24.63	25.00	1.089	-0.02	0.585	0.637
	1	WCDMA Band IV	RMC 12.2Kbps	Back	15	Full	1513	1752.6	24.63	25.00	1.089	-0.03	0.913	0.994
51	1	WCDMA Band IV	RMC 12.2Kbps	Back	15	Full	1312	1712.4	24.41	25.00	1.146	0.05	0.988	1.132
	1	WCDMA Band IV	RMC 12.2Kbps	Back	15	Full	1413	1732.6	24.61	25.00	1.094	0.06	1.000	1.094
	2	WCDMA Band II	RMC 12.2Kbps	Front	15	Full	9262	1852.4	24.49	25.00	1.125	0.05	0.280	0.315
	2	WCDMA Band II	RMC 12.2Kbps	Back	15	Full	9262	1852.4	24.49	25.00	1.125	0.02	0.412	0.463
	2	WCDMA Band II	RMC 12.2Kbps	Back	15	Full	9400	1880	24.42	25.00	1.143	-0.02	0.431	0.493
	2	WCDMA Band II	RMC 12.2Kbps	Back	15	Full	9538	1907.6	24.45	25.00	1.135	0.01	0.456	0.518
	1	WCDMA Band II	RMC 12.2Kbps	Front	15	Full	9262	1852.4	24.49	25.00	1.125	-0.01	0.606	0.682
52	1	WCDMA Band II	RMC 12.2Kbps	Back	15	Full	9262	1852.4	24.49	25.00	1.125	0.06	1.060	1.192
	1	WCDMA Band II	RMC 12.2Kbps	Back	15	Full	9400	1880	24.42	25.00	1.143	0.05	0.906	1.035
	1	WCDMA Band II	RMC 12.2Kbps	Back	15	Full	9538	1907.6	24.45	25.00	1.135	0.02	0.980	1.112



<CDMA2000 SAR>

Plot No.	Antenna	Band	Mode	Test Position	Gap (mm)	Power Reduction	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	2	CDMA2000 BC0	RC3 SO32 (F+SCH)	Front	15	Full	384	836.52	24.16	24.50	1.081	0.03	0.137	0.148
	2	CDMA2000 BC0	RC3 SO32 (F+SCH)	Back	15	Full	384	836.52	24.16	24.50	1.081	0.05	0.176	0.190
	2	CDMA2000 BC0	RC3 SO32 (F+SCH)	Back	15	Full	1013	824.7	24.08	24.50	1.102	0.04	0.175	0.193
	2	CDMA2000 BC0	RC3 SO32 (F+SCH)	Back	15	Full	777	848.31	23.95	24.50	1.135	0.06	0.187	0.212
	1	CDMA2000 BC0	RC3 SO32 (F+SCH)	Front	15	Full	384	836.52	24.16	24.50	1.081	0.06	0.164	0.177
	1	CDMA2000 BC0	RC3 SO32 (F+SCH)	Back	15	Full	384	836.52	24.16	24.50	1.081	0.03	0.187	0.202
53	1	CDMA2000 BC0	RC3 SO32 (F+SCH)	Back	15	Full	1013	824.7	24.08	24.50	1.102	0.06	0.197	0.217
	1	CDMA2000 BC0	RC3 SO32 (F+SCH)	Back	15	Full	777	848.31	23.95	24.50	1.135	0.06	0.183	0.208
	2	CDMA2000 BC1	RC3 SO32 (F+SCH)	Front	15	Full	1175	1908.75	23.96	24.50	1.132	0.17	0.226	0.256
	2	CDMA2000 BC1	RC3 SO32 (F+SCH)	Back	15	Full	1175	1908.75	23.96	24.50	1.132	0.01	0.391	0.443
	2	CDMA2000 BC1	RC3 SO32 (F+SCH)	Back	15	Full	25	1851.25	23.77	24.50	1.183	0.08	0.358	0.424
	2	CDMA2000 BC1	RC3 SO32 (F+SCH)	Back	15	Full	600	1880	23.83	24.50	1.167	0.13	0.387	0.452
	1	CDMA2000 BC1	RC3 SO32 (F+SCH)	Front	15	Full	1175	1908.75	23.96	24.50	1.132	0.18	0.565	0.640
54	1	CDMA2000 BC1	RC3 SO32 (F+SCH)	Back	15	Full	1175	1908.75	23.96	24.50	1.132	0.06	0.874	0.990
	1	CDMA2000 BC1	RC3 SO32 (F+SCH)	Back	15	Full	25	1851.25	23.77	24.50	1.183	0.15	0.760	0.899
	1	CDMA2000 BC1	RC3 SO32 (F+SCH)	Back	15	Full	600	1880	23.83	24.50	1.167	0.02	0.791	0.923

**<FDD LTE SAR>**

Plot No.	Antenna	Band	BW (MHz)	Modulation	RB Size	RB Offset	Test Position	Gap (mm)	Power Reduction	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	2	LTE Band 71	20M	QPSK	1	0	Front	15	Full	133322	683	24.49	24.80	1.074	0.05	0.170	0.183
55	2	LTE Band 71	20M	QPSK	1	0	Back	15	Full	133322	683	24.49	24.80	1.074	0.02	0.226	0.243
	2	LTE Band 71	20M	QPSK	50	0	Front	15	Full	133322	683	23.44	23.80	1.086	0.01	0.144	0.156
	2	LTE Band 71	20M	QPSK	50	0	Back	15	Full	133322	683	23.44	23.80	1.086	0.04	0.186	0.202
	1	LTE Band 71	20M	QPSK	1	0	Front	15	Full	133322	683	24.49	24.80	1.074	0.06	0.115	0.124
	1	LTE Band 71	20M	QPSK	1	0	Back	15	Full	133322	683	24.49	24.80	1.074	0.02	0.162	0.174
	1	LTE Band 71	20M	QPSK	50	0	Front	15	Full	133322	683	23.44	23.80	1.086	0.03	0.097	0.105
	1	LTE Band 71	20M	QPSK	50	0	Back	15	Full	133322	683	23.44	23.80	1.086	0.07	0.136	0.148
	2	LTE Band 12	10M	QPSK	1	0	Front	15	Full	23095	707.5	23.95	24.50	1.135	0.06	0.152	0.173
56	2	LTE Band 12	10M	QPSK	1	0	Back	15	Full	23095	707.5	23.95	24.50	1.135	0.04	0.217	0.246
	2	LTE Band 12	10M	QPSK	25	12	Front	15	Full	23095	707.5	23.03	23.50	1.114	0.08	0.126	0.140
	2	LTE Band 12	10M	QPSK	25	12	Back	15	Full	23095	707.5	23.03	23.50	1.114	0.09	0.169	0.188
	1	LTE Band 12	10M	QPSK	1	0	Front	15	Full	23095	707.5	23.95	24.50	1.135	0.02	0.152	0.173
	1	LTE Band 12	10M	QPSK	1	0	Back	15	Full	23095	707.5	23.95	24.50	1.135	0.05	0.195	0.221
	1	LTE Band 12	10M	QPSK	25	12	Front	15	Full	23095	707.5	23.03	23.50	1.114	0.04	0.123	0.137
	1	LTE Band 12	10M	QPSK	25	12	Back	15	Full	23095	707.5	23.03	23.50	1.114	0.04	0.159	0.177
	2	LTE Band 13	10M	QPSK	1	49	Front	15	Full	23230	782	23.99	24.50	1.125	0.02	0.172	0.193
57	2	LTE Band 13	10M	QPSK	1	49	Back	15	Full	23230	782	23.99	24.50	1.125	0.05	0.231	0.260
	2	LTE Band 13	10M	QPSK	25	12	Front	15	Full	23230	782	23.02	23.50	1.117	0.02	0.135	0.151
	2	LTE Band 13	10M	QPSK	25	12	Back	15	Full	23230	782	23.02	23.50	1.117	0.01	0.182	0.203
	1	LTE Band 13	10M	QPSK	1	49	Front	15	Full	23230	782	23.99	24.50	1.125	0.09	0.163	0.183
	1	LTE Band 13	10M	QPSK	1	49	Back	15	Full	23230	782	23.99	24.50	1.125	0.06	0.199	0.224
	1	LTE Band 13	10M	QPSK	25	12	Front	15	Full	23230	782	23.02	23.50	1.117	0.09	0.135	0.151
	1	LTE Band 13	10M	QPSK	25	12	Back	15	Full	23230	782	23.02	23.50	1.117	0.05	0.161	0.180
	2	LTE Band 5	10M	QPSK	1	0	Front	15	Full	20525	836.5	24.11	24.50	1.094	0.02	0.103	0.113
58	2	LTE Band 5	10M	QPSK	1	0	Back	15	Full	20525	836.5	24.11	24.50	1.094	0.1	0.245	0.268
	2	LTE Band 5	10M	QPSK	25	12	Front	15	Full	20525	836.5	23.2	23.50	1.072	0.01	0.088	0.094
	2	LTE Band 5	10M	QPSK	25	12	Back	15	Full	20525	836.5	23.2	23.50	1.072	0.09	0.197	0.211
	1	LTE Band 5	10M	QPSK	1	0	Front	15	Full	20525	836.5	24.11	24.50	1.094	0.08	0.171	0.187
	1	LTE Band 5	10M	QPSK	1	0	Back	15	Full	20525	836.5	24.11	24.50	1.094	0.02	0.196	0.214
	1	LTE Band 5	10M	QPSK	25	12	Front	15	Full	20525	836.5	23.2	23.50	1.072	0.09	0.134	0.144
	1	LTE Band 5	10M	QPSK	25	12	Back	15	Full	20525	836.5	23.2	23.50	1.072	0.02	0.150	0.161
	2	LTE Band 26	15M	QPSK	1	0	Front	15	Full	26965	841.5	23.67	24.00	1.079	0.02	0.195	0.210
	2	LTE Band 26	15M	QPSK	1	0	Back	15	Full	26965	841.5	23.67	24.00	1.079	0.08	0.228	0.246
59	2	LTE Band 26	15M	QPSK	1	0	Back	15	Full	26765	821.5	23.43	24.00	1.140	0.07	0.234	0.267
	2	LTE Band 26	15M	QPSK	1	0	Back	15	Full	26865	831.5	23.53	24.00	1.114	0.05	0.187	0.208
	2	LTE Band 26	15M	QPSK	36	0	Front	15	Full	26965	841.5	22.75	23.00	1.059	0.05	0.154	0.163
	2	LTE Band 26	15M	QPSK	36	0	Back	15	Full	26965	841.5	22.75	23.00	1.059	0.06	0.172	0.182
	1	LTE Band 26	15M	QPSK	1	0	Front	15	Full	26965	841.5	23.67	24.00	1.079	0.05	0.146	0.158
	1	LTE Band 26	15M	QPSK	1	0	Back	15	Full	26965	841.5	23.67	24.00	1.079	0.03	0.175	0.189
	1	LTE Band 26	15M	QPSK	1	0	Back	15	Full	26765	821.5	23.43	24.00	1.140	0.04	0.187	0.213
	1	LTE Band 26	15M	QPSK	1	0	Back	15	Full	26865	831.5	23.53	24.00	1.114	0.02	0.186	0.207
	1	LTE Band 26	15M	QPSK	36	0	Front	15	Full	26965	841.5	22.75	23.00	1.059	-0.01	0.118	0.125
	1	LTE Band 26	15M	QPSK	36	0	Back	15	Full	26965	841.5	22.75	23.00	1.059	-0.04	0.122	0.129



FCC SAR Test Report

Report No. : FA871004-01

Plot No.	Antenna	Band	BW (MHz)	Modulation	RB Size	RB Offset	Test Position	Gap (mm)	Power Reduction	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	2	LTE Band 66	20M	QPSK	1	0	Front	15	Full	132322	1745	24.14	24.50	1.086	-0.07	0.273	0.297
	2	LTE Band 66	20M	QPSK	1	0	Back	15	Full	132322	1745	24.14	24.50	1.086	0.09	0.334	0.363
	2	LTE Band 66	20M	QPSK	1	0	Back	15	Full	132072	1720	23.88	24.50	1.153	-0.03	0.095	0.110
	2	LTE Band 66	20M	QPSK	1	0	Back	15	Full	132572	1770	23.95	24.50	1.135	0.06	0.354	0.402
	2	LTE Band 66	20M	QPSK	50	0	Front	15	Full	132322	1745	23.13	23.50	1.089	0.05	0.210	0.229
	2	LTE Band 66	20M	QPSK	50	0	Back	15	Full	132322	1745	23.13	23.50	1.089	0.02	0.276	0.301
	1	LTE Band 66	20M	QPSK	1	0	Front	15	Full	132322	1745	24.14	24.50	1.086	0.04	0.486	0.528
	1	LTE Band 66	20M	QPSK	1	0	Back	15	Full	132322	1745	24.14	24.50	1.086	-0.03	0.735	0.799
	1	LTE Band 66	20M	QPSK	1	0	Back	15	Full	132072	1720	23.88	24.50	1.153	0.07	0.658	0.759
60	1	LTE Band 66	20M	QPSK	1	0	Back	15	Full	132572	1770	23.95	24.50	1.135	-0.04	0.738	0.838
	1	LTE Band 66	20M	QPSK	50	0	Front	15	Full	132322	1745	23.13	23.50	1.089	0.05	0.383	0.417
	1	LTE Band 66	20M	QPSK	50	0	Back	15	Full	132322	1745	23.13	23.50	1.089	0.01	0.622	0.677
	1	LTE Band 66	20M	QPSK	50	0	Back	15	Full	132572	1770	22.93	23.50	1.140	0.06	0.652	0.743
	1	LTE Band 66	20M	QPSK	100	0	Back	15	Full	132322	1745	23	23.50	1.122	0.02	0.609	0.683
	1	LTE Band 66	20M	QPSK	100	0	Back	15	Full	132572	1770	22.82	23.50	1.169	0.09	0.627	0.733
	2	LTE Band 25	20M	QPSK	1	0	Front	15	Full	26590	1905	23.55	24.00	1.109	-0.08	0.272	0.302
	2	LTE Band 25	20M	QPSK	1	0	Back	15	Full	26590	1905	23.55	24.00	1.109	0.07	0.349	0.387
	2	LTE Band 25	20M	QPSK	1	0	Back	15	Full	26140	1860	23.25	24.00	1.189	0.05	0.302	0.359
	2	LTE Band 25	20M	QPSK	1	0	Back	15	Full	26340	1880	23.3	24.00	1.175	0.09	0.319	0.375
	2	LTE Band 25	20M	QPSK	50	0	Front	15	Full	26590	1905	22.72	23.00	1.067	-0.09	0.222	0.237
	2	LTE Band 25	20M	QPSK	50	0	Back	15	Full	26590	1905	22.72	23.00	1.067	-0.09	0.277	0.295
	1	LTE Band 25	20M	QPSK	1	0	Front	15	Full	26590	1905	23.55	24.00	1.109	-0.06	0.478	0.530
61	1	LTE Band 25	20M	QPSK	1	0	Back	15	Full	26590	1905	23.55	24.00	1.109	0.02	0.769	0.853
	1	LTE Band 25	20M	QPSK	1	0	Back	15	Full	26140	1860	23.25	24.00	1.189	-0.05	0.634	0.754
	1	LTE Band 25	20M	QPSK	1	0	Back	15	Full	26340	1880	23.3	24.00	1.175	-0.09	0.677	0.795
	1	LTE Band 25	20M	QPSK	50	0	Front	15	Full	26590	1905	22.72	23.00	1.067	0.08	0.382	0.407
	1	LTE Band 25	20M	QPSK	50	0	Back	15	Full	26590	1905	22.72	23.00	1.067	0.06	0.607	0.647
	1	LTE Band 25	20M	QPSK	100	0	Back	15	Full	26590	1905	22.73	23.00	1.064	0.02	0.603	0.642
	2	LTE Band 2	20M	QPSK	1	0	Front	15	Full	19100	1900	23.87	24.50	1.156	0.01	0.130	0.150
	2	LTE Band 2	20M	QPSK	1	0	Back	15	Full	19100	1900	23.87	24.50	1.156	0.05	0.183	0.212
	2	LTE Band 2	20M	QPSK	1	0	Back	15	Full	18700	1860	23.45	24.50	1.274	0.06	0.147	0.187
	2	LTE Band 2	20M	QPSK	1	0	Back	15	Full	18900	1880	23.44	24.50	1.276	0.03	0.162	0.207
	2	LTE Band 2	20M	QPSK	50	0	Front	15	Full	19100	1900	22.78	23.50	1.180	0.06	0.129	0.152
	2	LTE Band 2	20M	QPSK	50	0	Back	15	Full	19100	1900	22.78	23.50	1.180	0.05	0.182	0.215
	1	LTE Band 2	20M	QPSK	1	0	Front	15	Full	19100	1900	23.87	24.50	1.156	0.01	0.530	0.613
	1	LTE Band 2	20M	QPSK	1	0	Back	15	Full	19100	1900	23.87	24.50	1.156	-0.04	0.831	0.961
	1	LTE Band 2	20M	QPSK	1	0	Back	15	Full	18700	1860	23.45	24.50	1.274	0.09	0.705	0.898
62	1	LTE Band 2	20M	QPSK	1	0	Back	15	Full	18900	1880	23.44	24.50	1.276	-0.07	0.768	0.980
	1	LTE Band 2	20M	QPSK	50	0	Front	15	Full	19100	1900	22.78	23.50	1.180	0.05	0.411	0.485
	1	LTE Band 2	20M	QPSK	50	0	Back	15	Full	19100	1900	22.78	23.50	1.180	-0.03	0.676	0.798
	1	LTE Band 2	20M	QPSK	100	0	Back	15	Full	19100	1900	22.76	23.50	1.186	-0.01	0.672	0.797
	3	LTE Band 30	10M	QPSK	1	0	Front	15	Full	27710	2310	23.26	24.00	1.186	0.04	0.197	0.234
63	3	LTE Band 30	10M	QPSK	1	0	Back	15	Full	27710	2310	23.26	24.00	1.186	0.09	0.397	0.471
	3	LTE Band 30	10M	QPSK	25	0	Front	15	Full	27710	2310	22.19	23.00	1.205	0.03	0.156	0.188
	3	LTE Band 30	10M	QPSK	25	0	Back	15	Full	27710	2310	22.19	23.00	1.205	0.08	0.311	0.375
	3	LTE Band 7	20M	QPSK	1	0	Front	15	Full	21350	2560	23.69	24.00	1.074	-0.05	0.173	0.186

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64	3	LTE Band 7	20M	QPSK	1	0	Back	15	Full	21350	2560	23.69	24.00	1.074	-0.09	0.426	0.458
	3	LTE Band 7	20M	QPSK	1	0	Back	15	Full	20850	2510	23.64	24.00	1.086	-0.07	0.384	0.417
	3	LTE Band 7	20M	QPSK	1	0	Back	15	Full	21100	2535	23.65	24.00	1.084	-0.1	0.405	0.439
	3	LTE Band 7	20M	QPSK	1	0	Back	15	Full	21350(PCC) + 21152(SCC)	2560(PCC) + 2540.2(SCC)	23.48	24.00	1.127	0.08	0.403	0.454
	3	LTE Band 7	20M	QPSK	50	0	Front	15	Full	21350	2560	22.63	23.00	1.089	0.08	0.135	0.147
	3	LTE Band 7	20M	QPSK	50	0	Back	15	Full	21350	2560	22.63	23.00	1.089	-0.03	0.339	0.369

<TDD LTE SAR>

Plot No.	Antenna	Band	BW (MHz)	Modulation	RB Size	RB Offset	Test Position	Gap (mm)	Power Reduction	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	3	LTE Band 41	20M	QPSK	1	0	Front	15	Full	41055	2636.5	23.36	24.00	1.159	62.9	1.006	0.01	0.100	0.117
	3	LTE Band 41	20M	QPSK	1	0	Back	15	Full	41055	2636.5	23.36	24.00	1.159	62.9	1.006	-0.09	0.259	0.302
	3	LTE Band 41	20M	QPSK	1	0	Back	15	Full	39750	2506	22.87	24.00	1.297	62.9	1.006	-0.06	0.229	0.299
	3	LTE Band 41	20M	QPSK	1	0	Back	15	Full	40185	2549.5	22.97	24.00	1.268	62.9	1.006	-0.1	0.242	0.309
65	3	LTE Band 41	20M	QPSK	1	0	Back	15	Full	40620	2593	22.94	24.00	1.276	62.9	1.006	0.07	0.252	0.324
	3	LTE Band 41	20M	QPSK	1	0	Back	15	Full	41490	2680	23.29	24.00	1.178	62.9	1.006	-0.18	0.222	0.263
	3	LTE Band 41	20M	QPSK	1	0	Back	15	Full	40620(PCC) + 40422(SCC)	2593(PCC) + 2573.2(SCC)	23.32	24.00	1.169	62.9	1.006	-0.02	0.168	0.198
	3	LTE Band 41	20M	QPSK	50	0	Front	15	Full	41055	2636.5	22.52	23.00	1.117	62.9	1.006	0.03	0.076	0.086
	3	LTE Band 41	20M	QPSK	50	0	Back	15	Full	41055	2636.5	22.52	23.00	1.117	62.9	1.006	0.05	0.196	0.220



<WLAN 2.4GHz SAR>

Plot No.	Antenna	Band	Mode	Test Position	Gap (mm)	Power Reduction	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	1	WLAN2.4GHz	802.11b 1Mbps	Front	15	Full	6	2437	19.03	19.50	1.114	99.31	1.007	0.02	0.055	0.062
	1	WLAN2.4GHz	802.11b 1Mbps	Back	15	Full	6	2437	19.03	19.50	1.114	99.31	1.007	0.05	0.064	0.072
	1	WLAN2.4GHz	802.11b 1Mbps	Back	15	Full	1	2412	18.06	19.50	1.393	99.31	1.007	0.06	0.082	0.115
66	1	WLAN2.4GHz	802.11b 1Mbps	Back	15	Full	11	2462	18.84	19.50	1.164	99.31	1.007	0.09	0.100	0.117
	2	WLAN2.4GHz	802.11b 1Mbps	Front	15	Full	6	2437	16.24	16.50	1.062	99.34	1.007	-0.07	0.051	0.055
67	2	WLAN2.4GHz	802.11b 1Mbps	Back	15	Full	6	2437	16.24	16.50	1.062	99.34	1.007	0.06	0.111	0.119
	2	WLAN2.4GHz	802.11b 1Mbps	Back	15	Full	1	2412	15.77	16.50	1.183	99.34	1.007	0.02	0.089	0.106
	2	WLAN2.4GHz	802.11b 1Mbps	Back	15	Full	11	2462	15.87	16.50	1.156	99.34	1.007	-0.14	0.099	0.115

<WLAN 5GHz SAR>

Plot No.	Antenna	Band	Mode	Test Position	Gap (mm)	Power Reduction	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	1+2	WLAN5.3GHz	802.11n-HT40 MCS0	Front	15	Full	54	5270	20.51	21.00	1.119	96.46	1.037	0.08	0.041	0.047
68	1+2	WLAN5.3GHz	802.11n-HT40 MCS0	Back	15	Full	54	5270	20.51	21.00	1.119	96.46	1.037	-0.02	0.405	0.470
	1+2	WLAN5.3GHz	802.11n-HT40 MCS0	Back	15	Full	62	5310	20.48	21.00	1.127	96.46	1.037	0.09	0.398	0.465
	1+2	WLAN5.5GHz	802.11n-HT40 MCS0	Front	15	Full	110	5550	20.60	21.00	1.097	96.46	1.037	0.03	0.091	0.103
	1+2	WLAN5.5GHz	802.11n-HT40 MCS0	Back	15	Full	110	5550	20.60	21.00	1.097	96.46	1.037	0.06	0.630	0.716
	1+2	WLAN5.5GHz	802.11n-HT40 MCS0	Back	15	Full	102	5510	20.57	21.00	1.104	96.46	1.037	-0.06	0.653	0.748
69	1+2	WLAN5.5GHz	802.11n-HT40 MCS0	Back	15	Full	134	5670	20.43	21.00	1.140	96.46	1.037	0.05	0.713	0.843
	1+2	WLAN5.5GHz	802.11n-HT40 MCS0	Back	15	Full	142	5710	20.56	21.00	1.107	96.46	1.037	0.03	0.722	0.829
	1+2	WLAN5.8GHz	802.11n-HT40 MCS0	Front	15	Full	159	5795	17.96	18.00	1.009	96.46	1.037	0.04	0.055	0.058
70	1+2	WLAN5.8GHz	802.11n-HT40 MCS0	Back	15	Full	159	5795	17.96	18.00	1.009	96.46	1.037	0.08	0.359	0.376
	1+2	WLAN5.8GHz	802.11n-HT40 MCS0	Back	15	Full	151	5755	17.67	18.00	1.079	96.46	1.037	0.02	0.303	0.339

<Bluetooth SAR>

Plot No.	Antenna	Band	Mode	Test Position	Gap (mm)	Power Reduction	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Reported 1g SAR (W/kg)
	1	Bluetooth	1Mbps	Front	15	Full	0	2402	12.73	13.10	1.088	76.84	1.084	0.08	0.008	0.009
	1	Bluetooth	1Mbps	Back	15	Full	0	2402	12.73	13.10	1.088	76.84	1.084	-0.05	0.009	0.011
	1	Bluetooth	1Mbps	Back	15	Full	39	2441	12.71	13.10	1.094	76.84	1.084	0.06	0.002	0.002
71	1	Bluetooth	1Mbps	Back	15	Full	78	2480	12.18	13.10	1.236	76.84	1.084	0.08	0.013	0.017

**14.4 Product specific 10g SAR****<GSM SAR>**

Plot No.	Antenna	Band	Mode	Test Position	Gap (mm)	Power Reduction	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 10g SAR (W/kg)	Reported 10g SAR (W/kg)
72	1	GSM1900	GPRS(3 Tx slots)	Bottom Side	0	Full	810	1909.8	25.31	26.00	1.172	0.06	2.150	2.520
	1	GSM1900	GPRS(3 Tx slots)	Bottom Side	0	Full	512	1850.2	25.18	26.00	1.208	-0.07	2.040	2.464
	1	GSM1900	GPRS(3 Tx slots)	Bottom Side	0	Full	661	1880	25.29	26.00	1.178	-0.04	2.070	2.438

<WCDMA SAR>

Plot No.	Antenna	Band	Mode	Test Position	Gap (mm)	Power Reduction	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 10g SAR (W/kg)	Reported 10g SAR (W/kg)
	1	WCDMA Band IV	RMC 12.2Kbps	Back	0	Reduced Level 2	1513	1752.6	21.51	22.00	1.119	-0.02	2.260	2.530
	1	WCDMA Band IV	RMC 12.2Kbps	Bottom Side	0	Reduced Level 2	1513	1752.6	21.51	22.00	1.119	0.05	2.900	3.246
	1	WCDMA Band IV	RMC 12.2Kbps	Bottom Side	0	Reduced Level 2	1312	1712.4	21.35	22.00	1.161	0.06	2.950	3.426
73	1	WCDMA Band IV	RMC 12.2Kbps	Bottom Side	0	Reduced Level 2	1413	1732.6	21.4	22.00	1.148	0.07	3.030	3.479
	1	WCDMA Band IV	RMC 12.2Kbps	Back	0	Reduced Level 2	1312	1712.4	21.35	22.00	1.161	0.05	2.130	2.474
	1	WCDMA Band IV	RMC 12.2Kbps	Back	0	Reduced Level 2	1413	1732.6	21.4	22.00	1.148	0.08	2.230	2.560
	1	WCDMA Band II	RMC 12.2Kbps	Back	0	Reduced Level 2	9262	1852.4	21.56	22.00	1.107	0.06	2.140	2.368
	1	WCDMA Band II	RMC 12.2Kbps	Bottom Side	0	Reduced Level 2	9262	1852.4	21.56	22.00	1.107	0.03	2.670	2.955
74	1	WCDMA Band II	RMC 12.2Kbps	Bottom Side	0	Reduced Level 2	9400	1880	21.49	22.00	1.125	0.02	2.720	3.059
	1	WCDMA Band II	RMC 12.2Kbps	Bottom Side	0	Reduced Level 2	9538	1907.6	21.53	22.00	1.114	0.05	2.730	3.042
	1	WCDMA Band II	RMC 12.2Kbps	Back	0	Reduced Level 2	9400	1880	21.49	22.00	1.125	0.1	2.150	2.418
	1	WCDMA Band II	RMC 12.2Kbps	Back	0	Reduced Level 2	9538	1907.6	21.53	22.00	1.114	0.02	2.340	2.607

<CDMA2000 SAR>

Plot No.	Antenna	Band	Mode	Test Position	Gap (mm)	Power Reduction	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 10g SAR (W/kg)	Reported 10g SAR (W/kg)
	1	CDMA2000 BC1	RTAP 153.6Kbps	Front	0	Reduced Level 2	1175	1908.75	22.16	22.50	1.081	0.01	1.880	2.033
	1	CDMA2000 BC1	RTAP 153.6Kbps	Back	0	Reduced Level 2	1175	1908.75	22.16	22.50	1.081	0.06	2.570	2.779
75	1	CDMA2000 BC1	RTAP 153.6Kbps	Bottom Side	0	Reduced Level 2	1175	1908.75	22.16	22.50	1.081	0.06	3.250	3.515
	1	CDMA2000 BC1	RTAP 153.6Kbps	Bottom Side	0	Reduced Level 2	25	1851.25	22.15	22.50	1.084	0.11	3.010	3.263
	1	CDMA2000 BC1	RTAP 153.6Kbps	Bottom Side	0	Reduced Level 2	600	1880	22.13	22.50	1.089	0.04	2.940	3.201
	1	CDMA2000 BC1	RTAP 153.6Kbps	Front	0	Reduced Level 2	25	1851.25	22.15	22.50	1.084	0.05	1.840	1.994
	1	CDMA2000 BC1	RTAP 153.6Kbps	Front	0	Reduced Level 2	600	1880	22.13	22.50	1.089	0.06	1.870	2.036
	1	CDMA2000 BC1	RTAP 153.6Kbps	Back	0	Reduced Level 2	25	1851.25	22.15	22.50	1.084	0.02	2.470	2.677
	1	CDMA2000 BC1	RTAP 153.6Kbps	Back	0	Reduced Level 2	600	1880	22.13	22.50	1.089	0.03	2.590	2.820



<FDD LTE SAR>

Plot No.	Antenna	Band	BW (MHz)	Modulation	RB Size	RB Offset	Test Position	Gap (mm)	Power Reduction	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Power Drift (dB)	Measured 10g SAR (W/kg)	Reported 10g SAR (W/kg)
	1	LTE Band 66	20M	QPSK	1	0	Back	0	Reduced Level 2	132322	1745	21.64	22.10	1.112	0.06	2.260	2.513
	1	LTE Band 66	20M	QPSK	1	0	Bottom Side	0	Reduced Level 2	132322	1745	21.64	22.10	1.112	0.06	3.040	3.380
	1	LTE Band 66	20M	QPSK	1	0	Bottom Side	0	Reduced Level 2	132072	1720	21.57	22.10	1.130	0.02	2.860	3.231
	1	LTE Band 66	20M	QPSK	1	0	Bottom Side	0	Reduced Level 2	132572	1770	21.51	22.10	1.146	0.08	3.090	3.540
	1	LTE Band 66	20M	QPSK	1	0	Back	0	Reduced Level 2	132072	1720	21.57	22.10	1.130	0.04	2.250	2.542
	1	LTE Band 66	20M	QPSK	1	0	Back	0	Reduced Level 2	132572	1770	21.51	22.10	1.146	0.03	2.130	2.440
	1	LTE Band 66	20M	QPSK	50	0	Back	0	Reduced Level 2	132322	1745	21.53	22.10	1.140	0.07	2.300	2.623
	1	LTE Band 66	20M	QPSK	50	0	Bottom Side	0	Reduced Level 2	132322	1745	21.53	22.10	1.140	0.03	3.120	3.558
	1	LTE Band 66	20M	QPSK	50	0	Bottom Side	0	Reduced Level 2	132072	1720	21.5	22.10	1.148	0.02	3.050	3.502
	1	LTE Band 66	20M	QPSK	50	0	Bottom Side	0	Reduced Level 2	132572	1770	21.48	22.10	1.153	0.04	3.090	3.564
	1	LTE Band 66	20M	QPSK	50	0	Back	0	Reduced Level 2	132072	1720	21.5	22.10	1.148	0.04	2.080	2.388
	1	LTE Band 66	20M	QPSK	50	0	Back	0	Reduced Level 2	132572	1770	21.48	22.10	1.153	0.05	2.090	2.411
	1	LTE Band 66	20M	QPSK	100	0	Back	0	Reduced Level 2	132322	1745	21.35	22.10	1.189	0.02	1.990	2.365
76	1	LTE Band 66	20M	QPSK	100	0	Bottom Side	0	Reduced Level 2	132322	1745	21.35	22.10	1.189	0.09	3.010	3.577
	1	LTE Band 25	20M	QPSK	1	0	Back	0	Reduced Level 2	26590	1905	21.86	22.40	1.132	0.09	2.500	2.831
	1	LTE Band 25	20M	QPSK	1	0	Bottom Side	0	Reduced Level 2	26590	1905	21.86	22.40	1.132	0.07	3.110	3.522
	1	LTE Band 25	20M	QPSK	1	0	Bottom Side	0	Reduced Level 2	26140	1860	21.74	22.40	1.164	0.08	2.810	3.271
	1	LTE Band 25	20M	QPSK	1	0	Bottom Side	0	Reduced Level 2	26340	1880	21.8	22.40	1.148	0.07	2.800	3.215
	1	LTE Band 25	20M	QPSK	1	0	Back	0	Reduced Level 2	26140	1860	21.74	22.40	1.164	0.02	2.050	2.386
	1	LTE Band 25	20M	QPSK	1	0	Back	0	Reduced Level 2	26340	1880	21.8	22.40	1.148	-0.05	2.240	2.572
	1	LTE Band 25	20M	QPSK	50	0	Back	0	Reduced Level 2	26590	1905	21.78	22.40	1.153	0.08	2.480	2.861
77	1	LTE Band 25	20M	QPSK	50	0	Bottom Side	0	Reduced Level 2	26590	1905	21.78	22.40	1.153	0.07	3.110	3.587
	1	LTE Band 25	20M	QPSK	50	0	Bottom Side	0	Reduced Level 2	26140	1860	21.77	22.40	1.156	0.05	2.890	3.341
	1	LTE Band 25	20M	QPSK	50	0	Bottom Side	0	Reduced Level 2	26340	1880	21.75	22.40	1.161	0.04	2.910	3.380
	1	LTE Band 25	20M	QPSK	50	0	Back	0	Reduced Level 2	26140	1860	21.77	22.40	1.156	0.06	2.110	2.439
	1	LTE Band 25	20M	QPSK	50	0	Back	0	Reduced Level 2	26340	1880	21.75	22.40	1.161	0.07	2.320	2.695
	1	LTE Band 25	20M	QPSK	100	0	Back	0	Reduced Level 2	26590	1905	21.81	22.40	1.146	0.04	2.490	2.852
	1	LTE Band 25	20M	QPSK	100	0	Bottom Side	0	Reduced Level 2	26590	1905	21.81	22.40	1.146	0.09	3.110	3.563
	1	LTE Band 2	20M	QPSK	1	0	Back	0	Reduced Level 2	19100	1900	21.89	22.00	1.026	0.04	2.810	2.882
	1	LTE Band 2	20M	QPSK	1	0	Bottom Side	0	Reduced Level 2	19100	1900	21.89	22.00	1.026	0.07	3.470	3.559
	1	LTE Band 2	20M	QPSK	1	0	Bottom Side	0	Reduced Level 2	18700	1860	21.88	22.00	1.028	0.08	3.320	3.413
	1	LTE Band 2	20M	QPSK	1	0	Bottom Side	0	Reduced Level 2	18900	1880	21.86	22.00	1.033	0.07	3.260	3.367
	1	LTE Band 2	20M	QPSK	1	0	Back	0	Reduced Level 2	18700	1860	21.88	22.00	1.028	0.03	2.510	2.580
	1	LTE Band 2	20M	QPSK	1	0	Back	0	Reduced Level 2	18900	1880	21.86	22.00	1.033	0.01	2.580	2.665
	1	LTE Band 2	20M	QPSK	50	0	Bottom Side	0	Reduced Level 2	19100	1900	21.84	22.00	1.038	0.09	3.440	3.569
	1	LTE Band 2	20M	QPSK	50	0	Bottom Side	0	Reduced Level 2	18700	1860	21.82	22.00	1.042	0.01	3.230	3.367
	1	LTE Band 2	20M	QPSK	50	0	Bottom Side	0	Reduced Level 2	18900	1880	21.83	22.00	1.040	0.05	3.430	3.567
	1	LTE Band 2	20M	QPSK	100	0	Back	0	Reduced Level 2	19100	1900	21.83	22.00	1.040	0.04	2.810	2.922
78	1	LTE Band 2	20M	QPSK	100	0	Bottom Side	0	Reduced Level 2	19100	1900	21.83	22.00	1.040	0.03	3.480	3.619

<WLAN 5GHz SAR>

Plot No.	Antenna	Band	Mode	Test Position	Gap (mm)	Power Reduction	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 10g SAR (W/kg)	Reported 10g SAR (W/kg)
	1+2	WLAN5.3GHz	802.11n-HT40 MCS0	Front	0	Full	54	5270	20.51	21.00	1.119	96.46	1.037	0.01	0.755	0.876
79	1+2	WLAN5.3GHz	802.11n-HT40 MCS0	Back	0	Full	54	5270	20.51	21.00	1.119	96.46	1.037	0.04	1.650	1.915
	1+2	WLAN5.3GHz	802.11n-HT40 MCS0	Right Side	0	Full	54	5270	20.51	21.00	1.119	96.46	1.037	0.09	0.699	0.811
	1+2	WLAN5.3GHz	802.11n-HT40 MCS0	Top Side	0	Full	54	5270	20.51	21.00	1.119	96.46	1.037	0.11	0.279	0.324
	1+2	WLAN5.3GHz	802.11n-HT40 MCS0	Back	0	Full	62	5310	20.48	21.00	1.127	96.46	1.037	0.06	1.440	1.683
	1+2	WLAN5.5GHz	802.11n-HT40 MCS0	Front	0	Full	110	5550	20.60	21.00	1.097	96.46	1.037	-0.02	1.000	1.137
	1+2	WLAN5.5GHz	802.11n-HT40 MCS0	Back	0	Full	110	5550	20.60	21.00	1.097	96.46	1.037	0.06	1.940	2.206
	1+2	WLAN5.5GHz	802.11n-HT40 MCS0	Right Side	0	Full	110	5550	20.60	21.00	1.097	96.46	1.037	0.04	0.544	0.619
	1+2	WLAN5.5GHz	802.11n-HT40 MCS0	Top Side	0	Full	110	5550	20.60	21.00	1.097	96.46	1.037	0.09	0.395	0.449
	1+2	WLAN5.5GHz	802.11n-HT40 MCS0	Back	0	Full	102	5510	20.57	21.00	1.104	96.46	1.037	0.11	2.170	2.485
80	1+2	WLAN5.5GHz	802.11n-HT40 MCS0	Back	0	Full	134	5670	20.43	21.00	1.140	96.46	1.037	0.18	2.670	3.157
	1+2	WLAN5.5GHz	802.11n-HT40 MCS0	Back	0	Full	142	5710	20.56	21.00	1.107	96.46	1.037	0.15	2.750	3.156

**14.5 Repeated SAR Measurement****<1g SAR>**

No.	Antenna	Band	BW (MHz)	Modulation	RB Size	RB Offset	Mode	Test Position	Gap (mm)	Power Reduction	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 1g SAR (W/kg)	Ratio	Reported 1g SAR (W/kg)
1st	2	WCDMA Band IV	-	-	-	-	RMC 12.2Kbps	Right Cheek	0	Reduced Level 1	1513	1752.6	21.08	21.50	1.102	-	-	0.02	1.170	1	1.289
2nd	2	WCDMA Band IV	-	-	-	-	RMC 12.2Kbps	Right Cheek	0	Reduced Level 1	1513	1752.6	21.08	21.50	1.102	-	-	0.08	1.160	1.009	1.278
1st	2	CDMA2000 BC0	-	-	-	-	RC3+SO55	Right Cheek	0	Reduced Level 1	777	848.31	22.43	23.00	1.140	-	-	0.01	1.120	1	1.277
2nd	2	CDMA2000 BC0	-	-	-	-	RC3+SO55	Right Cheek	0	Reduced Level 1	777	848.31	22.43	23.00	1.140	-	-	0.05	1.100	1.018	1.254
1st	2	LTE Band 71	20M	QPSK	1	0	-	Right Tilted	0	Full	133322	683	24.49	24.80	1.074	-	-	0.04	1.170	1	1.257
2nd	2	LTE Band 71	20M	QPSK	1	0	-	Right Tilted	0	Full	133322	683	24.49	24.80	1.074	-	-	-0.05	1.140	1.026	1.224
1st	2	LTE Band 30	10M	QPSK	1	0	-	Right Cheek	0	Reduced Level 1	27710	2310	19.38	19.70	1.076	-	-	0.07	1.190	1	1.281
2nd	2	LTE Band 30	10M	QPSK	1	0	-	Right Cheek	0	Reduced Level 1	27710	2310	19.38	19.70	1.076	-	-	0.02	1.160	1.026	1.249
1st	2	LTE Band 41	20M	QPSK	1	0	-	Right Cheek	0	Reduced Level 1	41490	2680	21.72	22.00	1.067	62.9	1.006	-0.07	1.190	1	1.277
2nd	2	LTE Band 41	20M	QPSK	1	0	-	Right Cheek	0	Reduced Level 1	41490	2680	21.72	22.00	1.067	62.9	1.006	0.06	1.170	1.017	1.255
1st	1	LTE Band 2	20M	QPSK	1	0	-	Bottom Side	10	Reduced Level 1	19100	1900	20.69	21.00	1.074	-	-	0.06	1.190	1	1.278
2nd	1	LTE Band 2	20M	QPSK	1	0	-	Bottom Side	10	Reduced Level 1	19100	1900	20.69	21.00	1.074	-	-	-0.02	1.170	1.017	1.257
1st	1	WLAN 2.4GHz	-	-	-	-	802.11b 1Mbps	Left Cheek	0	Reduced Level 1	6	2437	16.01	16.50	1.119	99.31	1.007	0.09	0.872	1	0.983
2nd	1	WLAN 2.4GHz	-	-	-	-	802.11b 1Mbps	Left Cheek	0	Reduced Level 1	6	2437	16.01	16.50	1.119	99.31	1.007	0.06	0.865	1.008	0.975
1st	1+2	WLAN5GHz	-	-	-	-	802.11n-HT40 MCS0	Left Tilted	0	Reduced Level 1	142	5710	17.53	18.00	1.114	96.46	1.037	-0.19	0.923	1	1.067
2nd	1+2	WLAN5GHz	-	-	-	-	802.11n-HT40 MCS0	Left Tilted	0	Reduced Level 1	142	5710	17.53	18.00	1.114	96.46	1.037	-0.12	0.916	1.008	1.058
1st	1+2	WLAN5GHz	-	-	-	-	802.11n-HT40 MCS0	Left Cheek	0	Full	151	5755	17.76	18.00	1.057	96.46	1.037	-0.1	0.934	1	1.024
2nd	1+2	WLAN5GHz	-	-	-	-	802.11n-HT40 MCS0	Left Cheek	0	Full	151	5755	17.76	18.00	1.057	96.46	1.037	-0.13	0.931	1.003	1.020

<10g SAR>

No.	Antenna	Band	BW (MHz)	Modulation	RB Size	RB Offset	Mode	Test Position	Gap (mm)	Power Reduction	Ch.	Freq. (MHz)	Average Power (dBm)	Tune-Up Limit (dBm)	Tune-up Scaling Factor	Duty Cycle %	Duty Cycle Scaling Factor	Power Drift (dB)	Measured 10g SAR (W/kg)	Ratio	Reported 10g SAR (W/kg)
1st	1	LTE Band 66	20M	QPSK	50	0	-	Bottom Side	0	Reduced Level 2	132322	1745	21.53	22.10	1.140	-	-	0.03	3.120	1	3.558
2nd	1	LTE Band 66	20M	QPSK	50	0	-	Bottom Side	0	Reduced Level 2	132322	1745	21.53	22.10	1.140	-	-	0.03	3.050	1.023	3.478
1st	1	LTE Band 2	20M	QPSK	100	0	-	Bottom Side	0	Reduced Level 2	19100	1900	21.83	22.00	1.040	-	-	0.03	3.480	1	3.619
2nd	1	LTE Band 2	20M	QPSK	100	0	-	Bottom Side	0	Reduced Level 2	19100	1900	21.83	22.00	1.040	-	-	0.06	3.430	1.015	3.567
1st	1+2	WLAN5GHz	-	-	-	-	802.11n-HT40 MCS0	Back	0	Full	142	5710	20.56	21.00	1.107	96.46	1.037	0.15	2.750	1	3.156
2nd	1+2	WLAN5GHz	-	-	-	-	802.11n-HT40 MCS0	Back	0	Full	142	5710	20.56	21.00	1.107	96.46	1.037	0.15	2.670	1.030	3.064

General Note:

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

15. Simultaneous Transmission Analysis

No.	Simultaneous Transmission Configurations	Portable Handset				Note
		Head	Body-worn	Hotspot	Product specific 10g SAR	
1.	GSM Voice + WLAN2.4GHz (SISO)	Yes	Yes			
2.	GPRS/EDGE + WLAN2.4GHz (SISO)	Yes	Yes	Yes	Yes	WWAN VoIP
3.	WCDMA + WLAN2.4GHz (SISO)	Yes	Yes	Yes	Yes	WWAN VoIP
4.	CDMA + WLAN2.4GHz (SISO)	Yes	Yes	Yes	Yes	WWAN VoIP
5.	LTE + WLAN2.4GHz (SISO)	Yes	Yes	Yes	Yes	WWAN VoIP
6.	GSM Voice + WLAN5.3/5.5GHz (MIMO)	Yes	Yes			
7.	GPRS/EDGE + WLAN5.3/5.5GHz (MIMO)	Yes	Yes		Yes	WWAN VoIP
8.	WCDMA + WLAN5.3/5.5GHz (MIMO)	Yes	Yes		Yes	WWAN VoIP
9.	CDMA + WLAN5.3/5.5GHz (MIMO)	Yes	Yes		Yes	WWAN VoIP
10.	LTE + WLAN5.3/5.5GHz (MIMO)	Yes	Yes		Yes	WWAN VoIP
11.	GSM Voice + WLAN5.2/5.8GHz (MIMO)	Yes	Yes			
12.	GPRS/EDGE + WLAN5.2/5.8GHz (MIMO)	Yes	Yes	Yes	Yes	WWAN VoIP
13.	WCDMA + WLAN5.2/5.8GHz (MIMO)	Yes	Yes	Yes	Yes	WWAN VoIP
14.	CDMA + WLAN5.2/5.8GHz (MIMO)	Yes	Yes	Yes	Yes	WWAN VoIP
15.	LTE + WLAN5.2/5.8GHz (MIMO)	Yes	Yes	Yes	Yes	WWAN VoIP
16.	GSM Voice + Bluetooth	Yes	Yes			
17.	GPRS/EDGE + Bluetooth	Yes	Yes	Yes	Yes	WWAN VoIP
18.	WCDMA + Bluetooth	Yes	Yes	Yes	Yes	WWAN VoIP
19.	CDMA + Bluetooth	Yes	Yes	Yes	Yes	WWAN VoIP
20.	LTE + Bluetooth	Yes	Yes	Yes	Yes	WWAN VoIP
21.	GSM Voice + WLAN5.2/5.8GHz (MIMO) + Bluetooth	Yes	Yes			
22.	GPRS/EDGE + WLAN5.2/5.8GHz (MIMO) + Bluetooth	Yes	Yes	Yes	Yes	WWAN VoIP
23.	WCDMA + WLAN5.2/5.8GHz (MIMO) + Bluetooth	Yes	Yes	Yes	Yes	WWAN VoIP
24.	CDMA + WLAN5.2/5.8GHz (MIMO) + Bluetooth	Yes	Yes	Yes	Yes	WWAN VoIP
25.	LTE + WLAN5.2/5.8GHz (MIMO) + Bluetooth	Yes	Yes	Yes	Yes	WWAN VoIP
26.	2.4GHz WLAN Ant.1+ 2.4GHz WLAN Ant.2	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.
- EUT will choose each GSM, CDMA, WCDMA and LTE according to the network signal condition; therefore, they will not operate simultaneously at any moment.
- WLAN 2.4GHz Antenna 1 and Bluetooth share the same antenna so can't transmit simultaneously.
- According to the character of EUT, WLAN 2.4GHz Antenna 2 and Bluetooth can't transmit simultaneously.
- This device 2.4GHz WLAN/ 5.2GHz WLAN/5.8GHz WLAN support hotspot operation, and 5.2GHz WLAN/5.8GHz WLAN supports WiFi Direct (GC/GO), and 5.3GHz / 5.5GHz supports WiFi Direct (GC only).
- EUT will choose either WLAN 2.4GHz or WLAN 5GHz according to the network signal condition; therefore, 2.4GHz WLAN and 5GHz WLAN will not operate simultaneously at any moment though they have independent antenna.
- The worst case 5 GHz WLAN reported SAR for each configuration was used for SAR summation, regardless of whether the WLAN channel has WiFi Direct and Hotspot capability. Therefore, the following summations represent the absolute worst cases for simultaneous transmission with 5 GHz WLAN.
- According to the character of EUT, WLAN 2.4G Ant.2 and WWAN antenna 1/2/3 and can't transmit simultaneously.
- WLAN 2.4GHz can transmit in SISO antenna mode only when transmit simultaneously with WWAN.
- For 2.4GHz WLAN each antenna, transmit power in SISO operation is larger than (or equal to) the power in MIMO operation, RF exposure compliance of MIMO mode can be deduced from the compliance simultaneous transmission of antennas operating in SISO mode.
- For 5GHz WLAN, SAR testing was performed on MIMO mode since it can't transmit in SISO mode, so only evaluate MIMO mode SAR.
- This device has three WWAN transmitter antennas. WWAN antenna 1 is located at the bottom edge of the device, WWAN antenna 2 is located at the left side of top edge of the device, WWAN antenna 3 is located under WWAN antenna 2, and which can refer to antenna location chapter. The device is capable of switching between the WWAN antenna 2 and WWAN antenna 3 based on signal strength. All of them couldn't transmit simultaneously.
- For hotspot/body-worn simultaneously analysis, since the SAR summation of 3 transmitters can cover others combination of 2 transmitters, therefore in the follow section would not additional to evaluate 2Tx combination of simultaneously transmission.
- 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.



- ii) $SPLSR = (SAR1 + SAR2)^{1.5} / (\text{min. separation distance, mm})$, and the peak separation distance is determined from the square root of $[(x1-x2)^2 + (y1-y2)^2 + (z1-z2)^2]$, where $(x1, y1, z1)$ and $(x2, y2, z2)$ are the coordinates of the extrapolated peak SAR locations in the zoom scan.
- iii) If $SPLSR \leq 0.04$ for 1g SAR, $SPLSR \leq 0.10$ for 10g SAR simultaneously transmission SAR measurement is not necessary.
- iv) The SPLSR calculated results please refer to section 15.5.

15.1 Head Exposure Conditions

<WWAN Antenna 1>

WWAN Band		Exposure Position	1	2	3	4	5	1+2 Summed 1g SAR	1+4+5 Summed 1g SAR	2+3 Summed 1g SAR (W/kg)
			WWAN Ant. 1	2.4GHz WLAN Ant. 1	2.4GHz WLAN Ant. 2	5GHz WLAN Ant. 1+2	Bluetooth Ant. 1			
			1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)			
GSM	GSM850	Right Cheek	0.129	0.296	0.695	0.344	0.094	0.43	0.57	0.99
		Right Tilted	0.076	0.329	0.222	0.325	0.073	0.41	0.47	0.55
		Left Cheek	0.198	0.983	0.167	0.724	0.390	1.18	1.31	1.15
		Left Tilted	0.076	0.912	0.083	0.890	0.162	0.99	1.13	1.00
	GSM1900	Right Cheek	0.063	0.296	0.695	0.344	0.094	0.36	0.50	0.99
		Right Tilted	0.014	0.329	0.222	0.325	0.073	0.34	0.41	0.55
		Left Cheek	0.006	0.983	0.167	0.724	0.390	0.99	1.12	1.15
		Left Tilted	0.002	0.912	0.083	0.890	0.162	0.91	1.05	1.00
WCDMA	Band V	Right Cheek	0.113	0.296	0.695	0.344	0.094	0.41	0.55	0.99
		Right Tilted	0.058	0.329	0.222	0.325	0.073	0.39	0.46	0.55
		Left Cheek	0.177	0.983	0.167	0.724	0.390	1.16	1.29	1.15
		Left Tilted	0.079	0.912	0.083	0.890	0.162	0.99	1.13	1.00
	Band IV	Right Cheek	0.194	0.296	0.695	0.344	0.094	0.49	0.63	0.99
		Right Tilted	0.095	0.329	0.222	0.325	0.073	0.42	0.49	0.55
		Left Cheek	0.103	0.983	0.167	0.724	0.390	1.09	1.22	1.15
		Left Tilted	0.094	0.912	0.083	0.890	0.162	1.01	1.15	1.00
	Band II	Right Cheek	0.163	0.296	0.695	0.344	0.094	0.46	0.60	0.99
		Right Tilted	0.100	0.329	0.222	0.325	0.073	0.43	0.50	0.55
		Left Cheek	0.090	0.983	0.167	0.724	0.390	1.07	1.20	1.15
		Left Tilted	0.108	0.912	0.083	0.890	0.162	1.02	1.16	1.00
CDMA2000	BC0	Right Cheek	0.122	0.296	0.695	0.344	0.094	0.42	0.56	0.99
		Right Tilted	0.100	0.329	0.222	0.325	0.073	0.43	0.50	0.55
		Left Cheek	0.223	0.983	0.167	0.724	0.390	1.21	1.34	1.15
		Left Tilted	0.105	0.912	0.083	0.890	0.162	1.02	1.16	1.00
	BC1	Right Cheek	0.160	0.296	0.695	0.344	0.094	0.46	0.60	0.99
		Right Tilted	0.093	0.329	0.222	0.325	0.073	0.42	0.49	0.55
		Left Cheek	0.104	0.983	0.167	0.724	0.390	1.09	1.22	1.15
		Left Tilted	0.119	0.912	0.083	0.890	0.162	1.03	1.17	1.00

WWAN Band		Exposure Position	1	2	3	4	5	1+2 Summed 1g SAR	1+4+5 Summed 1g SAR	2+3 Summed 1g SAR
			WWAN Ant.1	2.4GHz WLAN Ant.1	2.4GHz WLAN Ant.2	5GHz WLAN Ant.1+2	Bluetooth Ant.1			
			1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)			
LTE	Band 71	Right Cheek	0.059	0.296	0.695	0.344	0.094	0.36	0.50	0.99
		Right Tilted	0.011	0.329	0.222	0.325	0.073	0.34	0.41	0.55
		Left Cheek	0.089	0.983	0.167	0.724	0.390	1.07	1.20	1.15
		Left Tilted	0.033	0.912	0.083	0.890	0.162	0.95	1.09	1.00
	Band 12	Right Cheek	0.088	0.296	0.695	0.344	0.094	0.38	0.53	0.99
		Right Tilted	0.050	0.329	0.222	0.325	0.073	0.38	0.45	0.55
		Left Cheek	0.112	0.983	0.167	0.724	0.390	1.10	1.23	1.15
		Left Tilted	0.052	0.912	0.083	0.890	0.162	0.96	1.10	1.00
	Band 13	Right Cheek	0.092	0.296	0.695	0.344	0.094	0.39	0.53	0.99
		Right Tilted	0.049	0.329	0.222	0.325	0.073	0.38	0.45	0.55
		Left Cheek	0.137	0.983	0.167	0.724	0.390	1.12	1.25	1.15
		Left Tilted	0.076	0.912	0.083	0.890	0.162	0.99	1.13	1.00
	Band 5	Right Cheek	0.117	0.296	0.695	0.344	0.094	0.41	0.56	0.99
		Right Tilted	0.076	0.329	0.222	0.325	0.073	0.41	0.47	0.55
		Left Cheek	0.159	0.983	0.167	0.724	0.390	1.14	1.27	1.15
		Left Tilted	0.069	0.912	0.083	0.890	0.162	0.98	1.12	1.00
	Band 26	Right Cheek	0.100	0.296	0.695	0.344	0.094	0.40	0.54	0.99
		Right Tilted	0.087	0.329	0.222	0.325	0.073	0.42	0.49	0.55
		Left Cheek	0.162	0.983	0.167	0.724	0.390	1.15	1.28	1.15
		Left Tilted	0.092	0.912	0.083	0.890	0.162	1.00	1.14	1.00
	Band 66	Right Cheek	0.141	0.296	0.695	0.344	0.094	0.44	0.58	0.99
		Right Tilted	0.097	0.329	0.222	0.325	0.073	0.43	0.50	0.55
		Left Cheek	0.098	0.983	0.167	0.724	0.390	1.08	1.21	1.15
		Left Tilted	0.074	0.912	0.083	0.890	0.162	0.99	1.13	1.00
	Band 25	Right Cheek	0.116	0.296	0.695	0.344	0.094	0.41	0.55	0.99
		Right Tilted	0.071	0.329	0.222	0.325	0.073	0.40	0.47	0.55
		Left Cheek	0.077	0.983	0.167	0.724	0.390	1.06	1.19	1.15
		Left Tilted	0.092	0.912	0.083	0.890	0.162	1.00	1.14	1.00
	Band 2	Right Cheek	0.157	0.296	0.695	0.344	0.094	0.45	0.60	0.99
		Right Tilted	0.092	0.329	0.222	0.325	0.073	0.42	0.49	0.55
		Left Cheek	0.105	0.983	0.167	0.724	0.390	1.09	1.22	1.15
		Left Tilted	0.103	0.912	0.083	0.890	0.162	1.02	1.16	1.00

<WWAN Antenna 2>

WWAN Band		Exposure Position	1	2	1+2 Summed 1g SAR
			WWAN Ant.2	2.4GHz WLAN Ant.1	
			1g SAR (W/kg)	1g SAR (W/kg)	
GSM	GSM850	Right Cheek	0.905	0.296	1.20
		Right Tilted	0.852	0.329	1.18
		Left Cheek	0.554	0.983	1.54
		Left Tilted	0.506	0.912	1.42
	GSM1900	Right Cheek	0.795	0.296	1.09
		Right Tilted	0.966	0.329	1.30
		Left Cheek	0.271	0.983	1.25
		Left Tilted	0.453	0.912	1.37
WCDMA	Band V	Right Cheek	0.824	0.296	1.12
		Right Tilted	0.742	0.329	1.07
		Left Cheek	0.450	0.983	1.43
		Left Tilted	0.494	0.912	1.41
	Band IV	Right Cheek	0.929	0.296	1.23
		Right Tilted	0.741	0.329	1.07
		Left Cheek	0.347	0.983	1.33
		Left Tilted	0.301	0.912	1.21
	Band II	Right Cheek	0.874	0.296	1.17
		Right Tilted	0.553	0.329	0.88
		Left Cheek	0.222	0.983	1.21
		Left Tilted	0.211	0.912	1.12
CDMA2000	BC0	Right Cheek	0.826	0.296	1.12
		Right Tilted	0.625	0.329	0.95
		Left Cheek	0.439	0.983	1.42
		Left Tilted	0.391	0.912	1.30
	BC1	Right Cheek	0.705	0.296	1.00
		Right Tilted	0.832	0.329	1.16
		Left Cheek	0.269	0.983	1.25
		Left Tilted	0.326	0.912	1.24

WWAN Band		Exposure Position	1	2	1+2 Summed 1g SAR
			WWAN Ant.2	2.4GHz WLAN Ant.1	
			1g SAR (W/kg)	1g SAR (W/kg)	
LTE	Band 71	Right Cheek	0.824	0.296	1.12
		Right Tilted	0.774	0.329	1.10
		Left Cheek	0.531	0.983	1.51
		Left Tilted	0.428	0.912	1.34
	Band 12	Right Cheek	0.983	0.296	1.28
		Right Tilted	0.664	0.329	0.99
		Left Cheek	0.487	0.983	1.47
		Left Tilted	0.420	0.912	1.33
	Band 13	Right Cheek	1.047	0.296	1.34
		Right Tilted	0.924	0.329	1.25
		Left Cheek	0.543	0.983	1.53
		Left Tilted	0.455	0.912	1.37
	Band 5	Right Cheek	0.928	0.296	1.22
		Right Tilted	0.848	0.329	1.18
		Left Cheek	0.490	0.983	1.47
		Left Tilted	0.449	0.912	1.36
	Band 26	Right Cheek	0.817	0.296	1.11
		Right Tilted	0.575	0.329	0.90
		Left Cheek	0.276	0.983	1.26
		Left Tilted	0.237	0.912	1.15
	Band 66	Right Cheek	1.043	0.296	1.34
		Right Tilted	1.070	0.329	1.40
		Left Cheek	0.323	0.983	1.31
		Left Tilted	0.417	0.912	1.33
	Band 25	Right Cheek	1.027	0.296	1.32
		Right Tilted	0.685	0.329	1.01
		Left Cheek	0.325	0.983	1.31
		Left Tilted	0.325	0.912	1.24
	Band 2	Right Cheek	1.007	0.296	1.30
		Right Tilted	1.028	0.329	1.36
		Left Cheek	0.326	0.983	1.31
		Left Tilted	0.405	0.912	1.32

WWAN Band		Exposure Position	1	4	5	1+4+5 Summed 1g SAR
			WWAN Ant.2	5GHz WLAN Ant.1+2	Bluetooth Ant.1	
			1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	
GSM	GSM850	Right Cheek	0.645	0.344	0.094	1.08
		Right Tilted	0.618	0.325	0.073	1.02
		Left Cheek	0.426	0.724	0.390	1.54
		Left Tilted	0.455	0.890	0.162	1.51
	GSM1900	Right Cheek	0.721	0.344	0.094	1.16
		Right Tilted	0.511	0.325	0.073	0.91
		Left Cheek	0.205	0.724	0.390	1.32
		Left Tilted	0.186	0.890	0.162	1.24
WCDMA	Band V	Right Cheek	0.568	0.344	0.094	1.01
		Right Tilted	0.625	0.325	0.073	1.02
		Left Cheek	0.432	0.724	0.390	1.55
		Left Tilted	0.361	0.890	0.162	1.41
	Band IV	Right Cheek	0.859	0.344	0.094	1.30
		Right Tilted	0.696	0.325	0.073	1.09
		Left Cheek	0.265	0.724	0.390	1.38
		Left Tilted	0.308	0.890	0.162	1.36
	Band II	Right Cheek	0.785	0.344	0.094	1.22
		Right Tilted	0.527	0.325	0.073	0.93
		Left Cheek	0.216	0.724	0.390	1.33
		Left Tilted	0.201	0.890	0.162	1.25
CDMA2000	BC0	Right Cheek	0.704	0.344	0.094	1.14
		Right Tilted	0.555	0.325	0.073	0.95
		Left Cheek	0.394	0.724	0.390	1.51
		Left Tilted	0.355	0.890	0.162	1.41
	BC1	Right Cheek	0.705	0.344	0.094	1.14
		Right Tilted	0.832	0.325	0.073	1.23
		Left Cheek	0.269	0.724	0.390	1.38
		Left Tilted	0.326	0.890	0.162	1.38

WWAN Band		Exposure Position	1	4	5	1+4+5 Summed 1g SAR
			WWAN Ant.2	5GHz WLAN Ant.1+2	Bluetooth Ant.1	
			1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	
LTE	Band 71	Right Cheek	0.725	0.344	0.094	1.16
		Right Tilted	0.684	0.325	0.073	1.08
		Left Cheek	0.456	0.724	0.390	1.57
		Left Tilted	0.380	0.890	0.162	1.43
	Band 12	Right Cheek	0.690	0.344	0.094	1.13
		Right Tilted	0.650	0.325	0.073	1.05
		Left Cheek	0.467	0.724	0.390	1.58
		Left Tilted	0.505	0.890	0.162	1.56
	Band 13	Right Cheek	0.887	0.344	0.094	1.33
		Right Tilted	0.730	0.325	0.073	1.13
		Left Cheek	0.447	0.724	0.390	1.56
		Left Tilted	0.459	0.890	0.162	1.51
	Band 5	Right Cheek	0.759	0.344	0.094	1.20
		Right Tilted	0.674	0.325	0.073	1.07
		Left Cheek	0.456	0.724	0.390	1.57
		Left Tilted	0.483	0.890	0.162	1.54
	Band 26	Right Cheek	0.817	0.344	0.094	1.26
		Right Tilted	0.575	0.325	0.073	0.97
		Left Cheek	0.276	0.724	0.390	1.39
		Left Tilted	0.237	0.890	0.162	1.29
	Band 66	Right Cheek	0.979	0.344	0.094	1.42
		Right Tilted	0.732	0.325	0.073	1.13
		Left Cheek	0.320	0.724	0.390	1.43
		Left Tilted	0.344	0.890	0.162	1.40
	Band 25	Right Cheek	0.728	0.344	0.094	1.17
		Right Tilted	0.592	0.325	0.073	0.99
		Left Cheek	0.291	0.724	0.390	1.41
		Left Tilted	0.306	0.890	0.162	1.36
	Band 2	Right Cheek	0.652	0.344	0.094	1.09
		Right Tilted	0.649	0.325	0.073	1.05
		Left Cheek	0.262	0.724	0.390	1.38
		Left Tilted	0.310	0.890	0.162	1.36

<WWAN Antenna 3>

WWAN Band		Exposure Position	1	2	1+2 Summed 1g SAR
			WWAN Ant.3	2.4GHz WLAN Ant.1	
			1g SAR (W/kg)	1g SAR (W/kg)	
LTE	Band 30	Right Cheek	0.941	0.296	1.24
		Right Tilted	0.283	0.329	0.61
		Left Cheek	0.178	0.983	1.16
		Left Tilted	0.103	0.912	1.02
	Band 7	Right Cheek	1.098	0.296	1.39
		Right Tilted	0.263	0.329	0.59
		Left Cheek	0.149	0.983	1.13
		Left Tilted	0.149	0.912	1.06
	Band 41	Right Cheek	0.896	0.296	1.19
		Right Tilted	0.237	0.329	0.57
		Left Cheek	0.167	0.983	1.15
		Left Tilted	0.098	0.912	1.01

WWAN Band		Exposure Position	1	4	5	1+4+5 Summed 1g SAR
			WWAN Ant.3	5GHz WLAN Ant.1+2	Bluetooth Ant.1	
			1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	
LTE	Band 30	Right Cheek	0.941	0.344	0.094	1.38
		Right Tilted	0.283	0.325	0.073	0.68
		Left Cheek	0.178	0.724	0.390	1.29
		Left Tilted	0.103	0.890	0.162	1.16
	Band 7	Right Cheek	0.855	0.344	0.094	1.29
		Right Tilted	0.196	0.325	0.073	0.59
		Left Cheek	0.162	0.724	0.390	1.28
		Left Tilted	0.119	0.890	0.162	1.17
	Band 41	Right Cheek	0.731	0.344	0.094	1.17
		Right Tilted	0.191	0.325	0.073	0.59
		Left Cheek	0.124	0.724	0.390	1.24
		Left Tilted	0.089	0.890	0.162	1.14

15.2 Hotspot Exposure Conditions

<WWAN Antenna 1>

WWAN Band		Exposure Position	1	2	3	4	5	1+2 Summed 1g SAR (W/kg)	1+4+5 Summed 1g SAR (W/kg)	2+3 Summed 1g SAR (W/kg)
			WWAN Ant. 1	2.4GHz WLAN Ant. 1	2.4GHz WLAN Ant. 2	5GHz WLAN Ant. 1+2	Bluetooth Ant. 1			
			1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)			
GSM	GSM850	Front	0.384	0.187	0.103	0.107	0.040	0.57	0.53	0.29
		Back	0.586	0.181	0.187	0.671	0.039	0.77	1.30	0.37
		Left Side	0.215		0.210			0.22	0.22	0.21
		Right Side	0.082	0.275		0.268	0.095	0.36	0.45	0.28
		Top Side		0.130	0.077	0.119	0.025	0.13	0.14	0.21
		Bottom Side	0.266					0.27	0.27	
	GSM1900	Front	0.438	0.187	0.103	0.107	0.040	0.63	0.59	0.29
		Back	0.680	0.181	0.187	0.671	0.039	0.86	1.39	0.37
		Left Side	0.062		0.210			0.06	0.06	0.21
		Right Side	0.133	0.275		0.268	0.095	0.41	0.50	0.28
		Top Side		0.130	0.077	0.119	0.025	0.13	0.14	0.21
		Bottom Side	1.242					1.24	1.24	
WCDMA	Band V	Front	0.272	0.187	0.103	0.107	0.040	0.46	0.42	0.29
		Back	0.437	0.181	0.187	0.671	0.039	0.62	1.15	0.37
		Left Side	0.297		0.210			0.30	0.30	0.21
		Right Side	0.165	0.275		0.268	0.095	0.44	0.53	0.28
		Top Side		0.130	0.077	0.119	0.025	0.13	0.14	0.21
		Bottom Side	0.226					0.23	0.23	
	Band IV	Front	0.409	0.187	0.103	0.107	0.040	0.60	0.56	0.29
		Back	0.745	0.181	0.187	0.671	0.039	0.93	1.46	0.37
		Left Side	0.089		0.210			0.09	0.09	0.21
		Right Side	0.100	0.275		0.268	0.095	0.38	0.46	0.28
		Top Side		0.130	0.077	0.119	0.025	0.13	0.14	0.21
		Bottom Side	1.178					1.18	1.18	
	Band II	Front	0.359	0.187	0.103	0.107	0.040	0.55	0.51	0.29
		Back	0.637	0.181	0.187	0.671	0.039	0.82	1.35	0.37
		Left Side	0.040		0.210			0.04	0.04	0.21
		Right Side	0.091	0.275		0.268	0.095	0.37	0.45	0.28
		Top Side		0.130	0.077	0.119	0.025	0.13	0.14	0.21
		Bottom Side	1.137					1.14	1.14	
CDMA2000	BC0	Front	0.313	0.187	0.103	0.107	0.040	0.50	0.46	0.29
		Back	0.512	0.181	0.187	0.671	0.039	0.69	1.22	0.37
		Left Side	0.257		0.210			0.26	0.26	0.21
		Right Side	0.164	0.275		0.268	0.095	0.44	0.53	0.28
		Top Side		0.130	0.077	0.119	0.025	0.13	0.14	0.21
		Bottom Side	0.234					0.23	0.23	
	BC1	Front	0.359	0.187	0.103	0.107	0.040	0.55	0.51	0.29
		Back	0.562	0.181	0.187	0.671	0.039	0.74	1.27	0.37
		Left Side	0.034		0.210			0.03	0.03	0.21
		Right Side	0.078	0.275	0.000	0.268	0.095	0.35	0.44	0.28
		Top Side		0.130	0.077	0.119	0.025	0.13	0.14	0.21
		Bottom Side	0.872					0.87	0.87	

WWAN Band		Exposure Position	1	2	3	4	5	1+2 Summed 1g SAR (W/kg)	1+4+5 Summed 1g SAR (W/kg)	2+3 Summed 1g SAR (W/kg)
			WWAN Ant. 1	2.4GHz WLAN Ant. 1	2.4GHz WLAN Ant. 2	5GHz WLAN Ant. 1+2	Bluetooth Ant. 1			
			1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)			
LTE	Band 71	Front	0.165	0.187	0.103	0.107	0.040	0.35	0.31	0.29
		Back	0.242	0.181	0.187	0.671	0.039	0.42	0.95	0.37
		Left Side	0.200		0.210			0.20	0.20	0.21
		Right Side	0.174	0.275		0.268	0.095	0.45	0.54	0.28
		Top Side		0.130	0.077	0.119	0.025	0.13	0.14	0.21
		Bottom Side	0.103					0.10	0.10	
	Band 12	Front	0.175	0.187	0.103	0.107	0.040	0.36	0.32	0.29
		Back	0.261	0.181	0.187	0.671	0.039	0.44	0.97	0.37
		Left Side	0.301		0.210			0.30	0.30	0.21
		Right Side	0.243	0.275		0.268	0.095	0.52	0.61	0.28
		Top Side		0.130	0.077	0.119	0.025	0.13	0.14	0.21
		Bottom Side	0.105					0.11	0.11	0.00
	Band 13	Front	0.238	0.187	0.103	0.107	0.040	0.43	0.39	0.29
		Back	0.403	0.181	0.187	0.671	0.039	0.58	1.11	0.37
		Left Side	0.168		0.210			0.17	0.17	0.21
		Right Side	0.098	0.275		0.268	0.095	0.37	0.46	0.28
		Top Side		0.130	0.077	0.119	0.025	0.13	0.14	0.21
		Bottom Side	0.219					0.22	0.22	0.00
	Band 5	Front	0.330	0.187	0.103	0.107	0.040	0.52	0.48	0.29
		Back	0.473	0.181	0.187	0.671	0.039	0.65	1.18	0.37
		Left Side	0.226		0.210			0.23	0.23	0.21
		Right Side	0.181	0.275		0.268	0.095	0.46	0.54	0.28
		Top Side		0.130	0.077	0.119	0.025	0.13	0.14	0.21
		Bottom Side	0.240					0.24	0.24	
	Band 26	Front	0.264	0.187	0.103	0.107	0.040	0.45	0.41	0.29
		Back	0.412	0.181	0.187	0.671	0.039	0.59	1.12	0.37
		Left Side	0.222		0.210			0.22	0.22	0.21
		Right Side	0.135	0.275		0.268	0.095	0.41	0.50	0.28
		Top Side		0.130	0.077	0.119	0.025	0.13	0.14	0.21
		Bottom Side	0.190					0.19	0.19	
	Band 66	Front	0.413	0.187	0.103	0.107	0.040	0.60	0.56	0.29
		Back	0.632	0.181	0.187	0.671	0.039	0.81	1.34	0.37
		Left Side	0.094		0.210			0.09	0.09	0.21
		Right Side	0.321	0.275		0.268	0.095	0.60	0.68	0.28
		Top Side		0.130	0.077	0.119	0.025	0.13	0.14	0.21
		Bottom Side	1.093					1.09	1.09	
	Band 25	Front	0.463	0.187	0.103	0.107	0.040	0.65	0.61	0.29
		Back	0.724	0.181	0.187	0.671	0.039	0.91	1.43	0.37
		Left Side	0.072		0.210			0.07	0.07	0.21
		Right Side	0.124	0.275		0.268	0.095	0.40	0.49	0.28
		Top Side		0.130	0.077	0.119	0.025	0.13	0.14	0.21
		Bottom Side	1.251					1.25	1.25	
	Band 2	Front	0.441	0.187	0.103	0.107	0.040	0.63	0.59	0.29
		Back	0.691	0.181	0.187	0.671	0.039	0.87	1.40	0.37
		Left Side	0.132		0.210			0.13	0.13	0.21
		Right Side	0.382	0.275		0.268	0.095	0.66	0.75	0.28
		Top Side		0.130	0.077	0.119	0.025	0.13	0.14	0.21
		Bottom Side	1.320					1.32	1.32	

<WWAN Antenna 2>

WWAN Band		Exposure Position	1	2	4	5	1+2 Summed 1g SAR (W/kg)	1+4+5 Summed 1g SAR
			WWAN Ant.1	2.4GHz WLAN Ant.1	5GHz WLAN Ant.1+2	Bluetooth Ant.1		
			1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)		
GSM	GSM850	Front	0.430	0.187	0.107	0.040	0.62	0.58
		Back	0.665	0.181	0.671	0.039	0.85	1.38
		Left Side	0.313				0.31	0.31
		Right Side		0.275	0.268	0.095	0.28	0.36
		Top Side	0.481	0.130	0.119	0.025	0.61	0.63
	GSM1900	Front	0.184	0.187	0.107	0.040	0.37	0.33
		Back	0.305	0.181	0.671	0.039	0.49	1.02
		Left Side	0.089				0.09	0.09
		Right Side		0.275	0.268	0.095	0.28	0.36
		Top Side	0.458	0.130	0.119	0.025	0.59	0.60
WCDMA	Band V	Front	0.462	0.187	0.107	0.040	0.65	0.61
		Back	0.674	0.181	0.671	0.039	0.86	1.38
		Left Side	0.257				0.26	0.26
		Right Side		0.275	0.268	0.095	0.28	0.36
		Top Side	0.009	0.130	0.119	0.025	0.14	0.15
	Band IV	Front	0.611	0.187	0.107	0.040	0.80	0.76
		Back	0.586	0.181	0.671	0.039	0.77	1.30
		Left Side	0.527				0.53	0.53
		Right Side		0.275	0.268	0.095	0.28	0.36
		Top Side	0.994	0.130	0.119	0.025	1.12	1.14
	Band II	Front	0.639	0.187	0.107	0.040	0.83	0.79
		Back	0.741	0.181	0.671	0.039	0.92	1.45
		Left Side	0.350				0.35	0.35
		Right Side		0.275	0.268	0.095	0.28	0.36
		Top Side	0.967	0.130	0.119	0.025	1.10	1.11
CDMA2000	BC0	Front	0.532	0.187	0.107	0.040	0.72	0.68
		Back	0.747	0.181	0.671	0.039	0.93	1.46
		Left Side	0.128				0.13	0.13
		Right Side		0.275	0.268	0.095	0.28	0.36
		Top Side	0.606	0.130	0.119	0.025	0.74	0.75
	BC1	Front	0.703	0.187	0.107	0.040	0.89	0.85
		Back	0.707	0.181	0.671	0.039	0.89	1.42
		Left Side	0.555				0.56	0.56
		Right Side		0.275	0.268	0.095	0.28	0.36
		Top Side	1.078	0.130	0.119	0.025	1.21	1.22

WWAN Band		Exposure Position	1	2	4	5	1+2 Summed 1g SAR (W/kg)	1+4+5 Summed 1g SAR (W/kg)
			WWAN Ant.1	2.4GHz WLAN Ant.1	5GHz WLAN Ant.1+2	Bluetooth Ant.1		
			1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)		
LTE	Band 71	Front	0.450	0.187	0.107	0.040	0.64	0.60
		Back	0.537	0.181	0.671	0.039	0.72	1.25
		Left Side	0.242				0.24	0.24
		Right Side		0.275	0.268	0.095	0.28	0.36
		Top Side	0.322	0.130	0.119	0.025	0.45	0.47
	Band 12	Front	0.448	0.187	0.107	0.040	0.64	0.60
		Back	0.547	0.181	0.671	0.039	0.73	1.26
		Left Side	0.173				0.17	0.17
		Right Side		0.275	0.268	0.095	0.28	0.36
		Top Side	0.396	0.130	0.119	0.025	0.53	0.54
	Band 13	Front	0.463	0.187	0.107	0.040	0.65	0.61
		Back	0.604	0.181	0.671	0.039	0.79	1.31
		Left Side	0.291				0.29	0.29
		Right Side		0.275	0.268	0.095	0.28	0.36
		Top Side	0.408	0.130	0.119	0.025	0.54	0.55
	Band 5	Front	0.242	0.187	0.107	0.040	0.43	0.39
		Back	0.636	0.181	0.671	0.039	0.82	1.35
		Left Side	0.200				0.20	0.20
		Right Side		0.275	0.268	0.095	0.28	0.36
		Top Side	0.462	0.130	0.119	0.025	0.59	0.61
	Band 26	Front	0.426	0.187	0.107	0.040	0.61	0.57
		Back	0.596	0.181	0.671	0.039	0.78	1.31
		Left Side	0.197				0.20	0.20
		Right Side		0.275	0.268	0.095	0.28	0.36
		Top Side	0.379	0.130	0.119	0.025	0.51	0.52
	Band 66	Front	0.229	0.187	0.107	0.040	0.42	0.38
		Back	0.808	0.181	0.671	0.039	0.99	1.52
		Left Side	0.235				0.24	0.24
		Right Side		0.275	0.268	0.095	0.28	0.36
		Top Side	0.792	0.130	0.119	0.025	0.92	0.94
	Band 25	Front	0.579	0.187	0.107	0.040	0.77	0.73
		Back	0.764	0.181	0.671	0.039	0.95	1.47
		Left Side	0.370				0.37	0.37
		Right Side		0.275	0.268	0.095	0.28	0.36
		Top Side	0.761	0.130	0.119	0.025	0.89	0.91
	Band 2	Front	0.644	0.187	0.107	0.040	0.83	0.79
		Back	0.816	0.181	0.671	0.039	1.00	1.53
		Left Side	0.419				0.42	0.42
		Right Side		0.275	0.268	0.095	0.28	0.36
		Top Side	0.936	0.130	0.119	0.025	1.07	1.08

<WWAN Antenna 3>

WWAN Band		Exposure Position	1	2	4	5	1+2 Summed 1g SAR (W/kg)	1+4+5 Summed 1g SAR (W/kg)
			WWAN Ant.3	2.4GHz WLAN Ant.1	5GHz WLAN Ant.1+2	Bluetooth Ant.1		
			1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)		
LTE	Band 30	Front	0.506	0.187	0.107	0.040	0.69	0.65
		Back	0.877	0.181	0.671	0.039	1.06	1.59
		Left Side	0.733				0.73	0.73
		Right Side		0.275	0.268	0.095	0.28	0.36
		Top Side	0.147	0.130	0.119	0.025	0.28	0.29
	Band 7	Front	0.373	0.187	0.107	0.040	0.56	0.52
		Back	0.876	0.181	0.671	0.039	1.06	1.59
		Left Side	0.910				0.91	0.91
		Right Side		0.275	0.268	0.095	0.28	0.36
		Top Side	0.131	0.130	0.119	0.025	0.26	0.28
	Band 41	Front	0.235	0.187	0.107	0.040	0.42	0.38
		Back	0.627	0.181	0.671	0.039	0.81	1.34
		Left Side	0.710				0.71	0.71
		Right Side		0.275	0.268	0.095	0.28	0.36
		Top Side	0.055	0.130	0.119	0.025	0.19	0.20

15.3 Body-Worn Accessory Exposure Conditions

<WWAN Antenna 1>

WWAN Band		Exposure Position	1	2	3	4	5	1+2 Summed 1g SAR (W/kg)	1+4+5			2+3 Summed 1g SAR (W/kg)
			WWAN Ant.1	2.4GHz WLAN Ant.1	2.4GHz WLAN Ant.2	5GHz WLAN Ant.1+2	Bluetooth Ant.1		Summed 1g SAR	SPLSR	Case No	
			1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)					
GSM	GSM850	Front	0.209	0.062	0.055	0.103	0.009	0.27	0.32			0.12
		Back	0.272	0.117	0.119	0.843	0.017	0.39	1.13			0.24
	GSM1900	Front	0.251	0.062	0.055	0.103	0.009	0.31	0.36			0.12
		Back	0.387	0.117	0.119	0.843	0.017	0.50	1.25			0.24
WCDMA	Band V	Front	0.215	0.062	0.055	0.103	0.009	0.28	0.33			0.12
		Back	0.251	0.117	0.119	0.843	0.017	0.37	1.11			0.24
	Band IV	Front	0.637	0.062	0.055	0.103	0.009	0.70	0.75			0.12
		Back	1.132	0.117	0.119	0.843	0.017	1.25	1.99	0.02	#01	0.24
	Band II	Front	0.682	0.062	0.055	0.103	0.009	0.74	0.79			0.12
		Back	1.192	0.117	0.119	0.843	0.017	1.31	2.05	0.02	#02	0.24
CDMA2000	BC0	Front	0.177	0.062	0.055	0.103	0.009	0.24	0.29			0.12
		Back	0.217	0.117	0.119	0.843	0.017	0.33	1.08			0.24
	BC1	Front	0.640	0.062	0.055	0.103	0.009	0.70	0.75			0.12
		Back	0.990	0.117	0.119	0.843	0.017	1.11	1.85	0.02	#03	0.24
LTE	Band 71	Front	0.124	0.062	0.055	0.103	0.009	0.19	0.24			0.12
		Back	0.174	0.117	0.119	0.843	0.017	0.29	1.03			0.24
	Band 12	Front	0.173	0.062	0.055	0.103	0.009	0.24	0.29			0.12
		Back	0.221	0.117	0.119	0.843	0.017	0.34	1.08			0.24
	Band 13	Front	0.183	0.062	0.055	0.103	0.009	0.25	0.30			0.12
		Back	0.224	0.117	0.119	0.843	0.017	0.34	1.08			0.24
	Band 5	Front	0.187	0.062	0.055	0.103	0.009	0.25	0.30			0.12
		Back	0.214	0.117	0.119	0.843	0.017	0.33	1.07			0.24
	Band 26	Front	0.158	0.062	0.055	0.103	0.009	0.22	0.27			0.12
		Back	0.213	0.117	0.119	0.843	0.017	0.33	1.07			0.24
	Band 66	Front	0.528	0.062	0.055	0.103	0.009	0.59	0.64			0.12
		Back	0.838	0.117	0.119	0.843	0.017	0.96	1.70	0.02	#04	0.24
	Band 25	Front	0.530	0.062	0.055	0.103	0.009	0.59	0.64			0.12
		Back	0.853	0.117	0.119	0.843	0.017	0.97	1.71	0.02	#05	0.24
	Band 2	Front	0.613	0.062	0.055	0.103	0.009	0.68	0.73			0.12
		Back	0.980	0.117	0.119	0.843	0.017	1.10	1.84	0.02	#06	0.24

<WWAN Antenna 2>

WWAN Band		Exposure Position	1	2	4	5	1+2 Summed 1g SAR (W/kg)	1+4+5 Summed 1g SAR (W/kg)
			WWAN Ant.1	2.4GHz WLAN Ant.1	5GHz WLAN Ant.1+2	Bluetooth Ant.1		
			1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)		
GSM	GSM850	Front	0.217	0.062	0.103	0.009	0.28	0.33
		Back	0.280	0.117	0.843	0.017	0.40	1.14
	GSM1900	Front	0.120	0.062	0.103	0.009	0.18	0.23
		Back	0.163	0.117	0.843	0.017	0.28	1.02
WCDMA	Band V	Front	0.253	0.062	0.103	0.009	0.32	0.37
		Back	0.316	0.117	0.843	0.017	0.43	1.18
	Band IV	Front	0.282	0.062	0.103	0.009	0.34	0.39
		Back	0.365	0.117	0.843	0.017	0.48	1.23
	Band II	Front	0.315	0.062	0.103	0.009	0.38	0.43
		Back	0.518	0.117	0.843	0.017	0.64	1.38
CDMA2000	BC0	Front	0.148	0.062	0.103	0.009	0.21	0.26
		Back	0.212	0.117	0.843	0.017	0.33	1.07
	BC1	Front	0.256	0.062	0.103	0.009	0.32	0.37
		Back	0.452	0.117	0.843	0.017	0.57	1.31
LTE	Band 71	Front	0.183	0.062	0.103	0.009	0.25	0.30
		Back	0.243	0.117	0.843	0.017	0.36	1.10
	Band 12	Front	0.173	0.062	0.103	0.009	0.24	0.29
		Back	0.246	0.117	0.843	0.017	0.36	1.11
	Band 13	Front	0.193	0.062	0.103	0.009	0.26	0.31
		Back	0.260	0.117	0.843	0.017	0.38	1.12
	Band 5	Front	0.113	0.062	0.103	0.009	0.18	0.23
		Back	0.268	0.117	0.843	0.017	0.39	1.13
	Band 26	Front	0.210	0.062	0.103	0.009	0.27	0.32
		Back	0.267	0.117	0.843	0.017	0.38	1.13
	Band 66	Front	0.297	0.062	0.103	0.009	0.36	0.41
		Back	0.402	0.117	0.843	0.017	0.52	1.26
	Band 25	Front	0.302	0.062	0.103	0.009	0.36	0.41
		Back	0.387	0.117	0.843	0.017	0.50	1.25
	Band 2	Front	0.152	0.062	0.103	0.009	0.21	0.26
		Back	0.215	0.117	0.843	0.017	0.33	1.08

<WWAN Antenna 3>

WWAN Band		Exposure Position	1	2	4	5	1+2 Summed 1g SAR (W/kg)	1+4+5 Summed 1g SAR (W/kg)
			WWAN Ant.3	2.4GHz WLAN Ant.1	5GHz WLAN Ant.1+2	Bluetooth Ant.1		
			1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)		
LTE	Band 30	Front	0.234	0.062	0.103	0.009	0.30	0.35
		Back	0.471	0.117	0.843	0.017	0.59	1.33
	Band 7	Front	0.186	0.062	0.103	0.009	0.25	0.30
		Back	0.458	0.117	0.843	0.017	0.58	1.32
	Band 41	Front	0.117	0.062	0.103	0.009	0.18	0.23
		Back	0.324	0.117	0.843	0.017	0.44	1.18

15.4 Product specific 10g SAR Exposure Conditions

WWAN Band		Exposure Position	1	2	1+2		
			WWAN Antenna 1	5GHz WLAN Ant.1+2	Summed 10g SAR (W/kg)	SPLSR	Case No
			10g SAR (W/kg)	10g SAR (W/kg)			
GSM	GSM1900	Bottom Side	2.520		2.52		
WCDMA	Band IV	Back	2.560	3.157	5.72	0.09	#07
		Bottom Side	3.479		3.48		
	Band II	Back	2.607	3.157	5.76	0.09	#08
		Bottom Side	3.059		3.06		
CDMA	BC1	Front	2.036	1.137	3.17		
		Back	2.820	3.157	5.98	0.09	#09
		Bottom Side	3.515		3.52		
LTE	Band 66	Back	2.623	3.157	5.78	0.10	#10
		Bottom Side	3.577		3.58		
	Band 25	Back	2.861	3.157	6.02	0.10	#11
		Bottom Side	3.587		3.59		
	Band 2	Back	2.922	3.157	6.08	0.10	#12
		Bottom Side	3.619		3.62		

Remark:

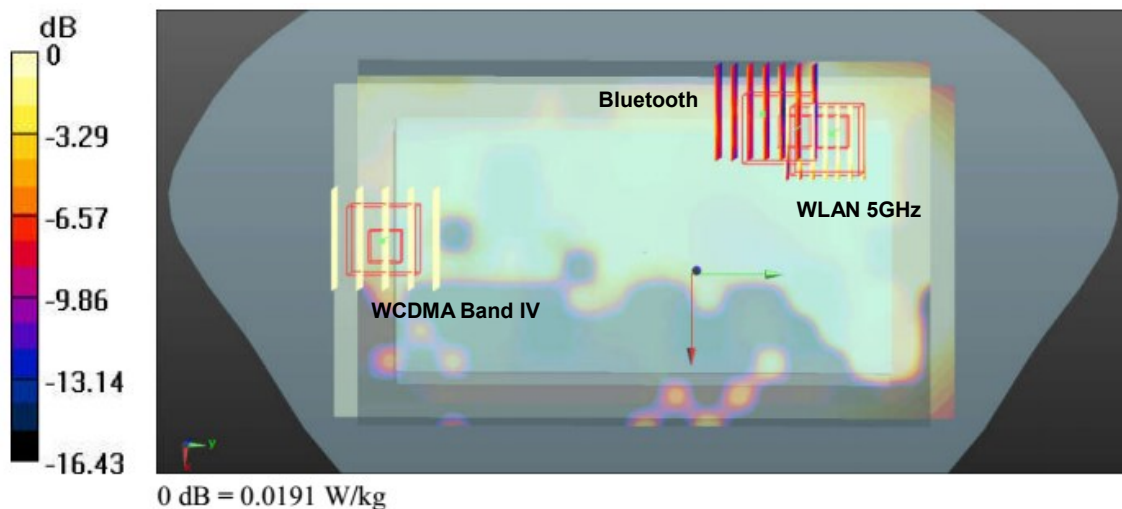
- For Bluetooth/WLAN 2.4GHz Product specific 10g stand-alone SAR is not required for a transmitter or antenna, due to 1g hotspot SAR is <1.2W/kg.
- SPLSR ≤ 0.10 for 10g SAR, simultaneously transmission SAR measurement is not necessary.

15.5 SPLSR Evaluation and Analysis

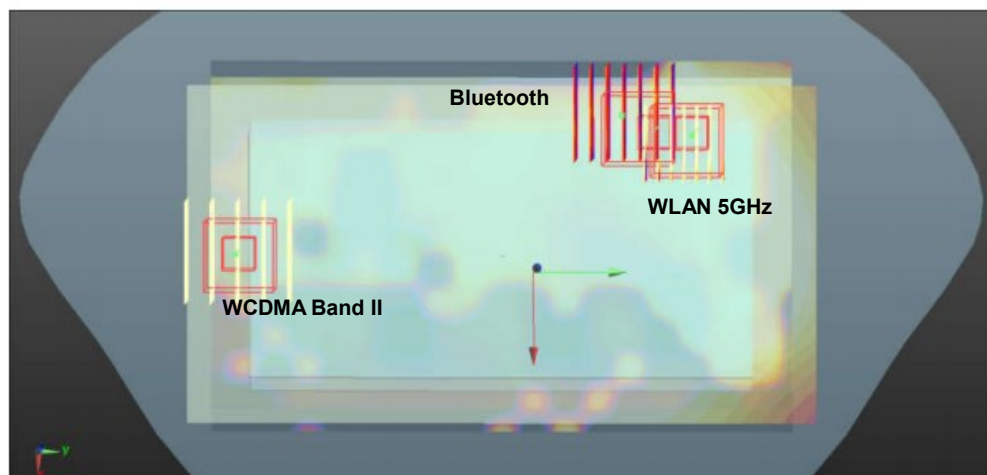
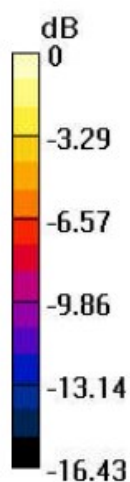
General Note:

- When standalone SAR is measured for both antennas in the pair, the peak location separation distance is computed by the square root of $[(x_1-x_2)^2 + (y_1-y_2)^2 + (z_1-z_2)^2]$, where (x_1, y_1, z_1) and (x_2, y_2, z_2) are the coordinates in the area scans or extrapolated peak SAR locations in the zoom scans, as appropriate.
- $SPLSR = (SAR_1 + SAR_2)^{1.5} / (\text{min. separation distance, mm})$. If $SPLSR \leq 0.04$ for 1g SAR and $SPLSR \leq 0.10$ for 10g SAR, simultaneously transmission SAR measurement is not necessary.

Case #01	Band	Position	1g SAR (W/kg)	Gap (mm)	SAR peak location (m)			3D distance (mm)	Summed 1g SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
	WCDMA Band IV	Back	1.132	15	-0.02	-0.0825	-0.206	166.2	1.98	0.02	Not required
	WLAN 5GHz		0.843	15	-0.055	0.08	-0.206				
	WCDMA Band IV		1.132	15	-0.02	-0.0825	-0.206	134.4	1.15	0.01	Not required
	Bluetooth		0.017	15	-0.0552	0.0472	-0.207				
	WLAN 5GHz		0.843	15	-0.055	0.08	-0.206	32.8	0.86	0.02	Not required
	Bluetooth		0.017	15	-0.0552	0.0472	-0.207				

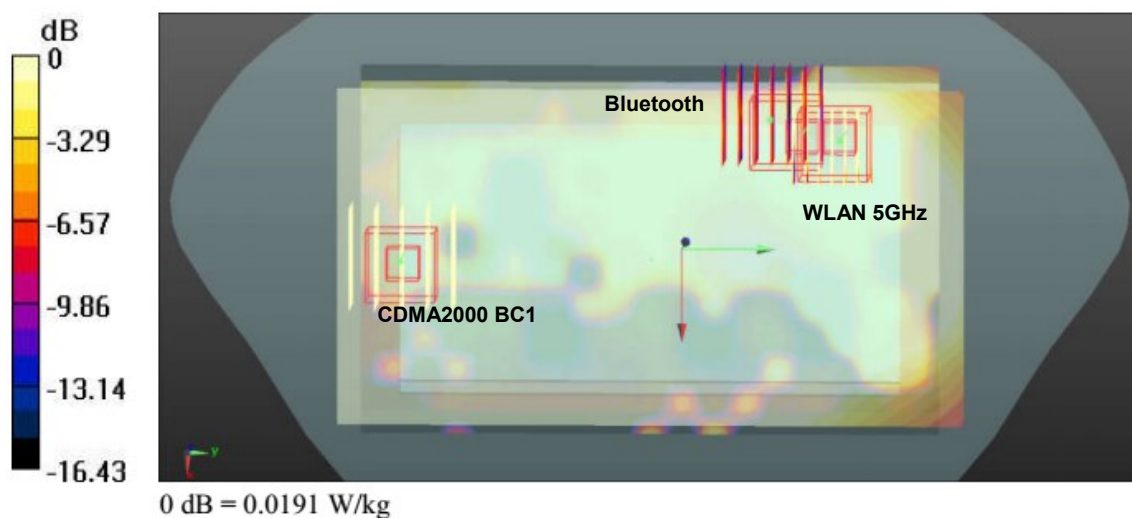


Case #02	Band	Position	1g SAR (W/kg)	Gap (mm)	SAR peak location (m)			3D distance (mm)	Summed 1g SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
	WCDMA Band II	Back	1.192	15	-0.017	-0.0825	-0.206	166.9	2.04	0.02	Not required
	WLAN 5GHz		0.843	15	-0.055	0.08	-0.206				
	WCDMA Band II		1.192	15	-0.017	-0.0825	-0.206	135.2	1.21	0.01	Not required
	Bluetooth		0.017	15	-0.0552	0.0472	-0.207				
	WLAN 5GHz		0.843	15	-0.055	0.08	-0.206	32.8	0.86	0.02	Not required
	Bluetooth		0.017	15	-0.0552	0.0472	-0.207				

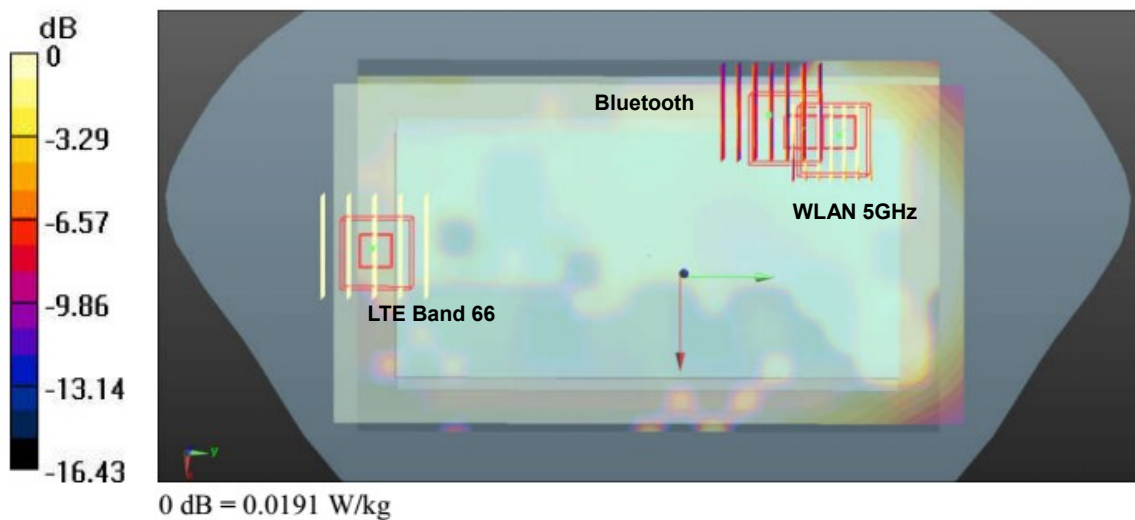


0 dB = 0.0191 W/kg

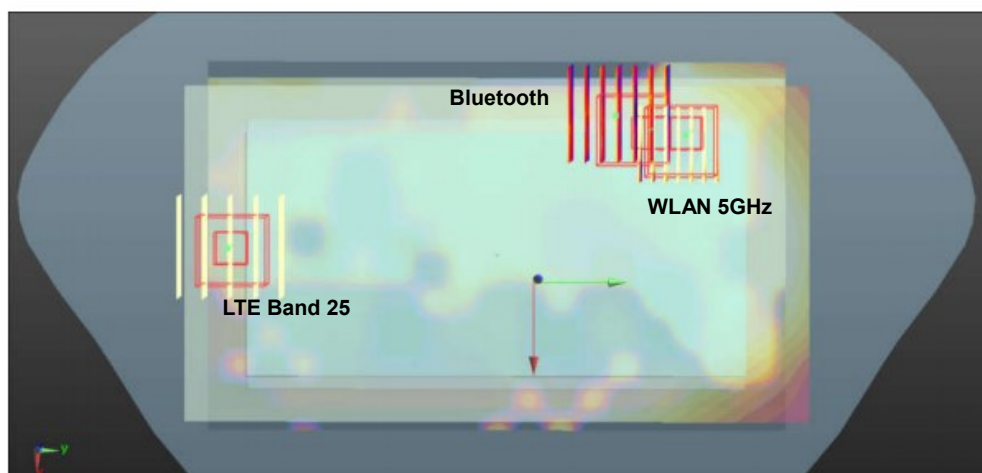
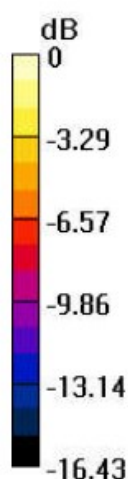
	Band	Position	1g SAR (W/kg)	Gap (mm)	SAR peak location (m)			3D distance (mm)	Summed 1g SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
Case #03	CDMA2000 BC1	Back	0.990	15	-0.0155	-0.078	-0.206	162.9	1.83	0.02	Not required
	WLAN 5GHz		0.843	15	-0.055	0.08	-0.206				
	CDMA2000 BC1		0.990	15	-0.0155	-0.078	-0.206	131.3	1.01	0.01	Not required
	Bluetooth		0.017	15	-0.0552	0.0472	-0.207				
	WLAN 5GHz		0.843	15	-0.055	0.08	-0.206	32.8	0.86	0.02	Not required
	Bluetooth		0.017	15	-0.0552	0.0472	-0.207				



Case #04	Band	Position	1g SAR (W/kg)	Gap (mm)	SAR peak location (m)			3D distance (mm)	Summed 1g SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
	LTE Band 66	Back	0.838	15	-0.0185	-0.0855	-0.206	169.5	1.68	0.01	Not required
	WLAN 5GHz		0.843	15	-0.055	0.08	-0.206				
	LTE Band 66		0.838	15	-0.0185	-0.0855	-0.206	137.7	0.86	0.01	Not required
	Bluetooth		0.017	15	-0.0552	0.0472	-0.207				
	WLAN 5GHz		0.843	15	-0.055	0.08	-0.206	32.8	0.86	0.02	Not required
	Bluetooth		0.017	15	-0.0552	0.0472	-0.207				

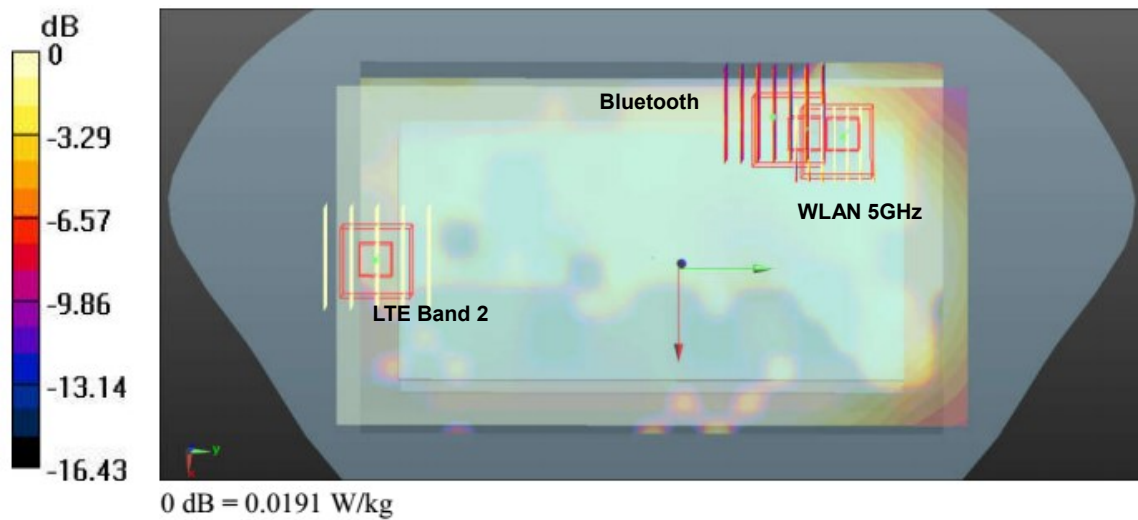


Case #05	Band	Position	1g SAR (W/kg)	Gap (mm)	SAR peak location (m)			3D distance (mm)	Summed 1g SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
	LTE Band 25	Back	0.853	15	-0.0185	-0.084	-0.206	168.0	1.70	0.01	Not required
	WLAN 5GHz		0.843	15	-0.055	0.08	-0.206				
	LTE Band 25		0.853	15	-0.0185	-0.084	-0.206	136.2	0.87	0.01	Not required
	Bluetooth		0.017	15	-0.0552	0.0472	-0.207				
	WLAN 5GHz		0.843	15	-0.055	0.08	-0.206	32.8	0.86	0.02	Not required
	Bluetooth		0.017	15	-0.0552	0.0472	-0.207				

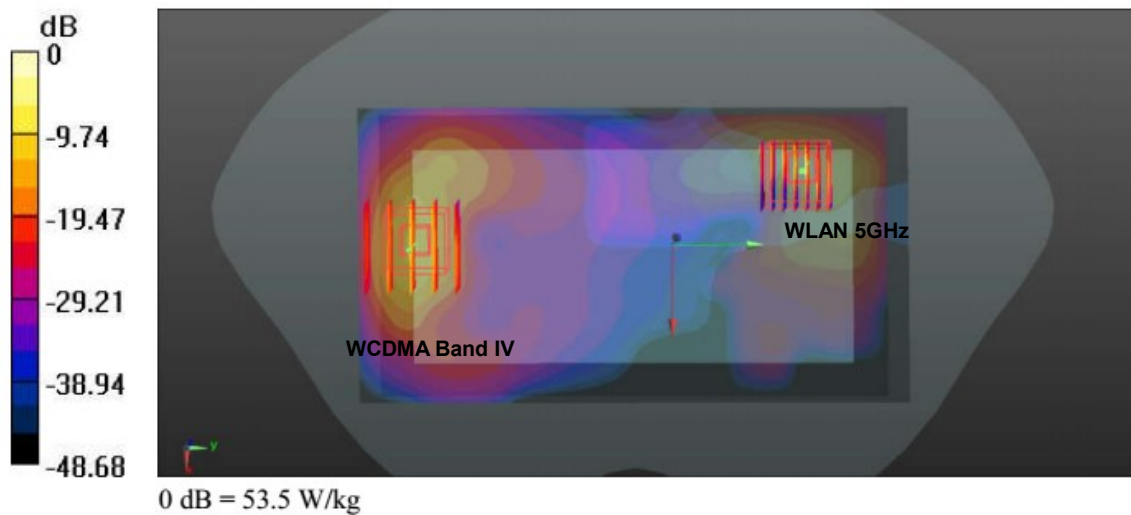


0 dB = 0.0191 W/kg

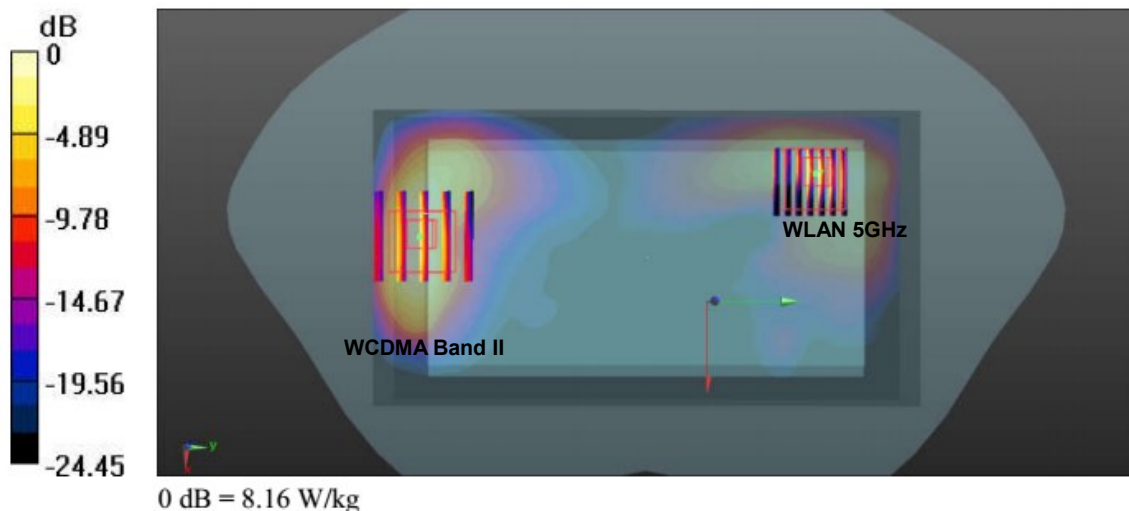
Case #06	Band	Position	1g SAR (W/kg)	Gap (mm)	SAR peak location (m)			3D distance (mm)	Summed 1g SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
	LTE Band 2	Back	0.980	15	-0.0155	-0.0855	-0.206	170.1	1.82	0.01	Not required
	WLAN 5GHz		0.843	15	-0.055	0.08	-0.206				
	LTE Band 2		0.980	15	-0.0155	-0.0855	-0.206	138.5	1.00	0.01	Not required
	Bluetooth		0.017	15	-0.0552	0.0472	-0.207				
	WLAN 5GHz		0.843	15	-0.055	0.08	-0.206	32.8	0.86	0.02	Not required
	Bluetooth		0.017	15	-0.0552	0.0472	-0.207				



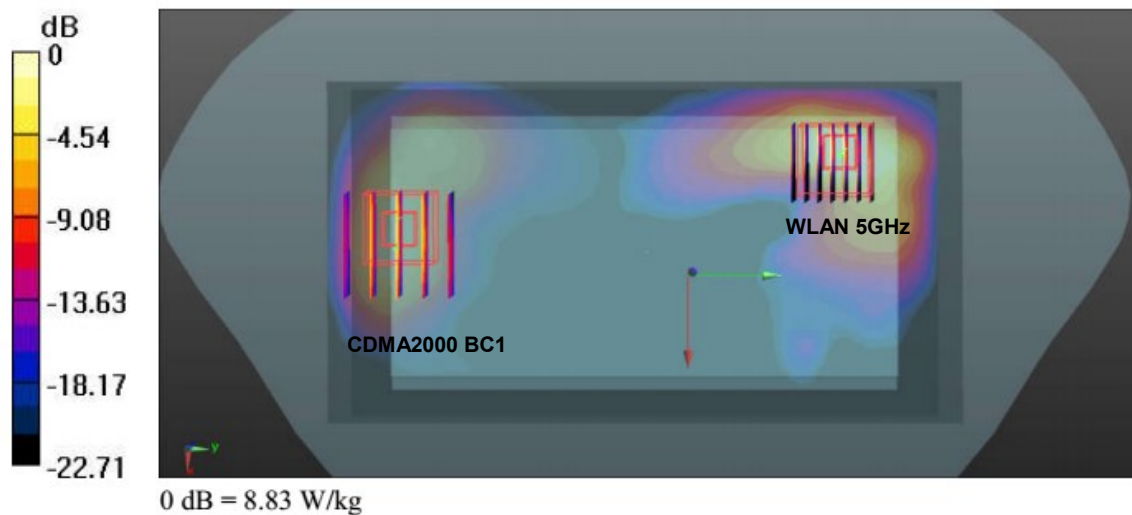
Case #07	Band	Position	10g SAR (W/kg)	Gap (mm)	SAR peak location (m)			3D distance (mm)	Summed 10g SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
	WCDMA Band IV	Back	2.560	0	-0.0185	-0.0895	-0.207	153.4	5.72	0.09	Not required
	WLAN 5GHz		3.157	0	-0.048	0.061	-0.206				



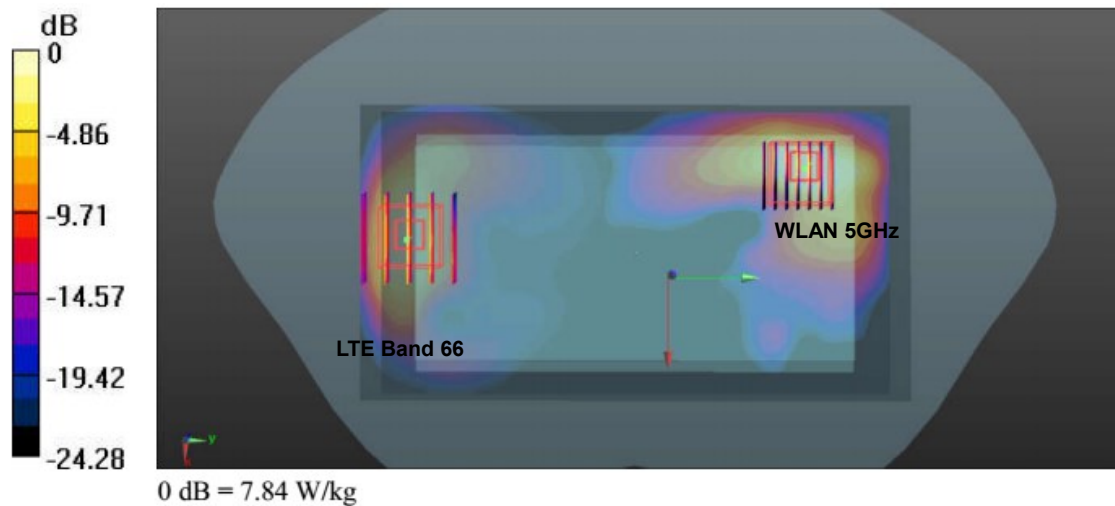
Case #08	Band	Position	10g SAR (W/kg)	Gap (mm)	SAR peak location (m)			3D distance (mm)	Summed 10g SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
	WCDMA Band II	Back	2.607	0	-0.0325	-0.091	-0.206	152.8	5.76	0.09	Not required
	WLAN 5GHz		3.157	0	-0.048	0.061	-0.206				



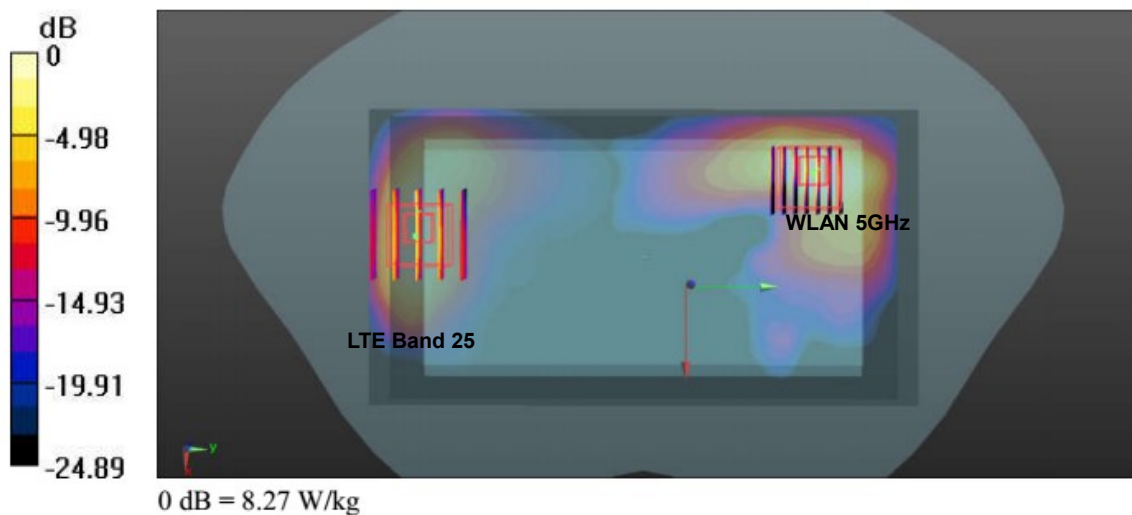
Case #09	Band	Position	10g SAR (W/kg)	Gap (mm)	SAR peak location (m)			3D distance (mm)	Summed 10g SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
	CDMA2000 BC1	Back	2.820	0	-0.0265	-0.0965	-0.207	159.0	5.98	0.09	Not required
	WLAN 5GHz		3.157	0	-0.048	0.061	-0.206				



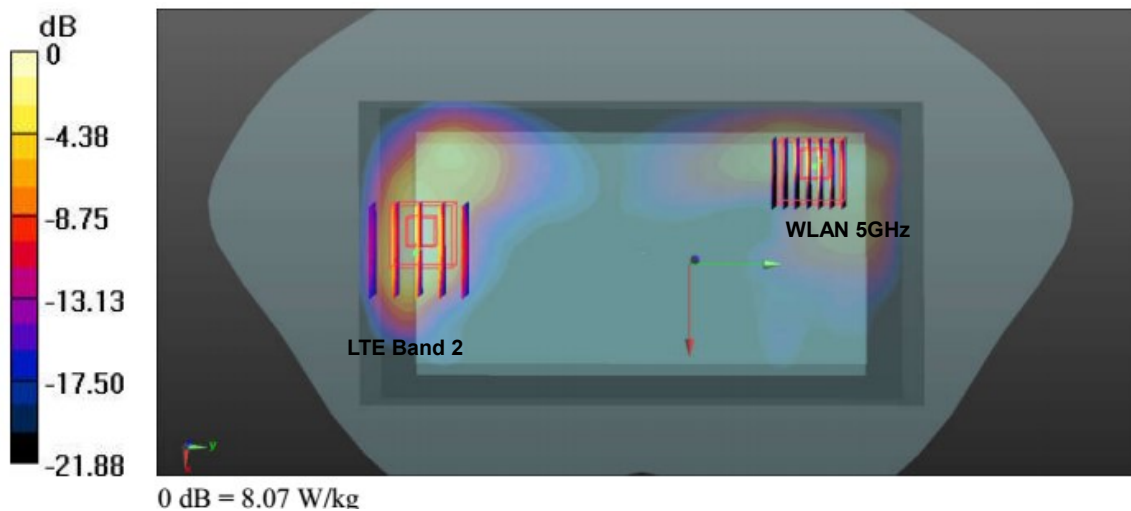
Case #10	Band	Position	10g SAR (W/kg)	Gap (mm)	SAR peak location (m)			3D distance (mm)	Summed 10g SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
	LTE Band 66	Back	2.623	0	-0.0215	-0.081	-0.207	144.5	5.78	0.10	Not required
	WLAN 5GHz		3.157	0	-0.048	0.061	-0.206				



Case #11	Band	Position	10g SAR (W/kg)	Gap (mm)	SAR peak location (m)			3D distance (mm)	Summed 10g SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
	LTE Band 25	Back	2.861	0	-0.0325	-0.081	-0.206	142.8	6.02	0.10	Not required
	WLAN 5GHz		3.157	0	-0.048	0.061	-0.206				



Case #12	Band	Position	10g SAR (W/kg)	Gap (mm)	SAR peak location (m)			3D distance (mm)	Summed 10g SAR (W/kg)	SPLSR Results	Simultaneous SAR
					X	Y	Z				
	LTE Band 2	Back	2.922	0	-0.017	-0.088	-0.207	152.2	6.08	0.10	Not required
	WLAN 5GHz		3.157	0	-0.048	0.061	-0.206				



16. Supplemental Tuner Tests Results

General Note:

1. The following test procedure was followed to demonstrate that the SAR results in this report represent the appropriate SAR test conditions. For bands with dynamic tuning implemented, SAR will be measured according to the required FCC SAR test procedures with the dynamic tuner active to allow the device to automatically tune to the antenna state for the respective RF exposure test configurations. Additional single point SAR time-sweep measurements will be evaluated for other tuner states to determine that the other tuner configurations would result in equivalent or lower SAR values. The additional tuner hardware has no influence to the antenna characteristics, other than impedance matching.
2. To evaluate all of the tuner states, the 96 tuner states for each WWAN antenna 1 and each WWAN antenna 2 are divided evenly among band, mode and exposure combinations so that at least one single point SAR measurement is measured in each configuration. Single point time-sweep measurements will be performed at the peak SAR location determined by the zoom scan of the configuration with the highest reported SAR for each combination. The tuner state will be established remotely so that the device is not moved for the entire series of single point SAR for the tuner states in each combination. The SAR probe will remain stationary at the same position throughout the entire series of single point measurements for each combination. The bands which are dynamically tuned are split into two separate antennas, so each antenna system will have its own test plan to cover the corresponding 96 tuner states for each WWAN antenna 1 and each WWAN antenna 2.
3. The operational decryption contains more information about the design and implementation of the dynamic antenna tuning.
4. The device supports both LTE B12 / B17 and B66 / B4. Since the supported frequency span for LTE B17, and B4 fall completely within the supported frequency span for LTE B12 and B66, and both bands have the same target power and both LTE bands share the same transmission path, therefore standalone SAR and antenna tuner single point SAR measurement was only assessed for LTE B12 and B66.

**16.1 Supplemental Head SAR Results****<WWAN Antenna 1>**

Mode	Service/ Modulation	Frequency (MHz)	Channel	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)						
									0	15	30	45	60	75	90
GSM850	GPRS(3 Tx slots)	836.4	189	N/A	N/A	Left Cheek	0 mm	0.167	0.012	0.014	0.001	0.021	0.01	0.001	0.024
Mode	Service/ Modulation	Frequency (MHz)	Channel	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)						
									1	16	31	46	61	76	91
GSM1900	GPRS(3 Tx slots)	1909.8	810	N/A	N/A	Right Cheek	0 mm	0.054	0.001	0.005	0.042	0.002	0.006	0.048	0.043
Mode	Service/ Modulation	Frequency (MHz)	Channel	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)						
									2	17	32	47	62	77	92
CDMA2000 BC0	RC3+SO55	848.31	777	N/A	N/A	Left Cheek	0 mm	0.2	0.013	0.001	0.001	0.001	0.001	0.001	0.001
Mode	Service/ Modulation	Frequency (MHz)	Channel	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)						
									3	18	33	48	63	78	93
CDMA2000 BC1	RC3+SO55	1908.75	1175	N/A	N/A	Right Cheek	0 mm	0.142	0.075	0.069	0.065	0.066	0.081	0.091	0.056
Mode	Service/ Modulation	Frequency (MHz)	Channel	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)						
									4	19	34	49	64	79	94
WCDMA Band V	RMC 12.2Kbps	846.6	4233	N/A	N/A	Left Cheek	0 mm	0.154	0.011	0.014	0.021	0.01	0.013	0.015	0.02
Mode	Service/ Modulation	Frequency (MHz)	Channel	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)						
									5	20	35	50	65	80	95
WCDMA Band IV	RMC 12.2Kbps	1712.4	1312	N/A	N/A	Right Cheek	0 mm	0.169	0.012	0.016	0.01	0.011	0.015	0.024	0.028
Mode	Service/ Modulation	Frequency (MHz)	Channel	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)						
									6	21	36	51	66	81	
WCDMA Band II	RMC 12.2Kbps	1907.6	9538	N/A	N/A	Right Cheek	0 mm	0.144	0.016	0.021	0.014	0.011	0.12	0.01	
Mode	Service/ Modulation	Frequency (MHz)	Channel	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)						
									7	22	37	52	67	82	
LTE Band 12	10M_QPSK	707.5	23095	1	0	Left Cheek	0 mm	0.0988	0.021	0.078	0.012	0.052	0.08	0.061	
Mode	Service/ Modulation	Frequency (MHz)	Channel	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)						
									8	23	38	53	68	83	
LTE Band 13	10M_QPSK	782	23230	1	49	Left Cheek	0 mm	0.122	0.02	0.026	0.016	0.023	0.013	0.049	
Mode	Service/ Modulation	Frequency (MHz)	Channel	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)						
									9	24	39	54	69	84	
LTE Band 26	15M_QPSK	836.5	26915	1	0	Left Cheek	0 mm	0.152	0.015	0.012	0.036	0.021	0.025	0.01	
Mode	Service/ Modulation	Frequency (MHz)	Channel	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)						
									10	25	40	55	70	85	
LTE Band 5	10M_QPSK	836.5	20525	1	0	Left Cheek	0 mm	0.145	0.02	0.015	0.018	0.01	0.016	0.011	
Mode	Service/ Modulation	Frequency (MHz)	Channel	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)						
									11	26	41	56	71	86	
LTE Band 71	20M_QPSK	683	133322	1	0	Left Cheek	0 mm	0.083	0.084	0	0.056	0.084	0.061	0	
Mode	Service/ Modulation	Frequency (MHz)	Channel	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)						
									12	27	42	57	72	87	
LTE Band 2	20M_QPSK	1900	19100	1	0	Right Cheek	0 mm	0.136	0.066	0.095	0.093	0.066	0.044	0.081	
Mode	Service/ Modulation	Frequency (MHz)	Channel	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)						
									13	28	43	58	73	88	
LTE Band 25	20M_QPSK	1905	26590	1	0	Right Cheek	0 mm	0.105	0.066	0.087	0.079	0.068	0.063	0.085	
Mode	Service/ Modulation	Frequency (MHz)	Channel	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)						
									14	29	44	59	74	89	
LTE Band 66	20M_QPSK	1720	132072	1	0	Right Cheek	0 mm	0.122	0.012	0.01	0.012	0.013	0.01	0.014	



<WWAN Antenna 2>

Mode	Service/ Modulation	Frequency (MHz)	Channel	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)						
									0	15	30	45	60	75	90
GSM850	GPRS(1 Tx slots)	848.8	251	N/A	N/A	Right Cheek	0 mm	0.963	0.561	0.071	0.488	0.049	0.193	0.1	0.408
Mode	Service/ Modulation	Frequency (MHz)	Channel	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)						
									1	16	31	46	61	76	91
GSM1900	GPRS(3 Tx slots)	1880	661	N/A	N/A	Right Cheek	0 mm	1.03	0.189	0.091	0.076	0.001	0.212	0.076	0.001
Mode	Service/ Modulation	Frequency (MHz)	Channel	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)						
									2	17	32	47	62	77	92
CDMA 2000 BC0	RC3+SO55	848.31	777	N/A	N/A	Right Cheek	0 mm	1.12	0.174	0.079	0.3	0.058	0.603	0.253	0.116
Mode	Service/ Modulation	Frequency (MHz)	Channel	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)						
									3	18	33	48	63	78	93
CDMA 2000 BC1	RC3+SO55	1908.75	1175	N/A	N/A	Right Cheek	0 mm	0.862	0.136	0.052	0.059	0.119	0.074	0.055	0.001
Mode	Service/ Modulation	Frequency (MHz)	Channel	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)						
									4	19	34	49	64	79	94
WCDMA Band V	RMC 12.2Kbps	846.6	4233	N/A	N/A	Right Cheek	0 mm	0.93	0.304	0.116	0.218	0.73	0.524	0.348	0.043
Mode	Service/ Modulation	Frequency (MHz)	Channel	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)						
									5	20	35	50	65	80	95
WCDMA Band IV	RMC 12.2Kbps	1732.6	1413	N/A	N/A	Right Cheek	0 mm	1.15	0.624	0.525	0.483	0.582	0.878	0.536	0.336
Mode	Service/ Modulation	Frequency (MHz)	Channel	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)						
									6	21	36	51	66	81	
WCDMA Band II	RMC 12.2Kbps	1852.4	9262	N/A	N/A	Right Cheek	0 mm	1.07	0.364	0.145	0.604	0.331	0.177	0.164	
Mode	Service/ Modulation	Frequency (MHz)	Channel	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)						
									7	22	37	52	67	82	
LTE Band 12	10M_QPSK	707.5	23095	1	0	Right Cheek	0 mm	0.958	0.955	0.165	0.001	0.352	0.833	0.203	
Mode	Service/ Modulation	Frequency (MHz)	Channel	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)						
									8	23	38	53	68	83	
LTE Band 13	10M_QPSK	782	23230	1	49	Right Cheek	0 mm	0.953	0.548	0.126	0.058	0.779	0.163	0.18	
Mode	Service/ Modulation	Frequency (MHz)	Channel	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)						
									9	24	39	54	69	84	
LTE Band 26	15M_QPSK	841.5	26965	1	0	Right Cheek	0 mm	1.09	0.337	0.083	0.127	0.58	0.07	0.001	
Mode	Service/ Modulation	Frequency (MHz)	Channel	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)						
									10	25	40	55	70	85	
LTE Band 5	10M_QPSK	836.5	20525	25	12	Right Tilted	0 mm	1.09	0.368	0.159	0.671	0.37	0.049	0.001	
Mode	Service/ Modulation	Frequency (MHz)	Channel	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)						
									11	26	41	56	71	86	
LTE Band 71	20M_QPSK	683	133322	1	0	Right Tilted	0 mm	1.17	0.749	0.105	0.086	0.76	0.235	0	
Mode	Service/ Modulation	Frequency (MHz)	Channel	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)						
									12	27	42	57	72	87	
LTE Band 2	20M_QPSK	1880	18900	1	0	Right Cheek	0 mm	1.08	0.304	0.102	0.063	0.093	0.088	0.101	
Mode	Service/ Modulation	Frequency (MHz)	Channel	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)						
									13	28	43	58	73	88	
LTE Band 25	20M_QPSK	1880	26340	50	0	Right Tilted	0 mm	1.16	0.365	0.135	0.042	0.084	0.075	0.056	
Mode	Service/ Modulation	Frequency (MHz)	Channel	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)						
									14	29	44	59	74	89	
LTE Band 66	20M_QPSK	1745	132322	100	0	Right Cheek	0 mm	1.06	0.437	0.23	0.183	0.196	0.222	0.303	

**16.2 Supplemental Body SAR Results****<WWAN Antenna 1>**

Mode	Service/ Modulation	Frequency (MHz)	Channel	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)						
									0	15	30	45	60	75	90
GSM850	GPRS(3 Tx slots)	848.8	251	N/A	N/A	Back	10 mm	0.508	0.123	0.012	0.059	0.11	0.015	0.01	0.048
Mode	Service/ Modulation	Frequency (MHz)	Channel	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)						
									1	16	31	46	61	76	91
GSM1900	GPRS(3 Tx slots)	1909.8	810	N/A	N/A	Bottom Side	10 mm	1.12	0.814	0.897	0.858	0.768	0.864	1.03	0.833
Mode	Service/ Modulation	Frequency (MHz)	Channel	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)						
									2	17	32	47	62	77	92
CDMA2000 BC0	RTAP 153.6Kbps	777	848.31	N/A	N/A	Back	10 mm	0.442	0.001	0.001	0.089	0.114	0.001	0.001	0.076
Mode	Service/ Modulation	Frequency (MHz)	Channel	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)						
									3	18	33	48	63	78	93
CDMA2000 BC1	RTAP 153.6Kbps	1880	600	N/A	N/A	Bottom Side	10 mm	0.774	0.476	0.403	0.258	0.312	0.439	0.337	0.233
Mode	Service/ Modulation	Frequency (MHz)	Channel	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)						
									4	19	34	49	64	79	94
WCDMA Band V	RMC 12.2Kbps	846.6	4233	N/A	N/A	Back	10 mm	0.38	0.022	0.063	0.104	0.011	0.01	0.061	0.101
Mode	Service/ Modulation	Frequency (MHz)	Channel	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)						
									5	20	35	50	65	80	95
WCDMA Band IV	RMC 12.2Kbps	1752.6	1513	N/A	N/A	Bottom Side	10 mm	1	0.162	0.163	0.083	0.103	0.133	0.081	0.087
Mode	Service/ Modulation	Frequency (MHz)	Channel	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)						
									6	21	36	51	66	81	
WCDMA Band II	RMC 12.2Kbps	1907.6	9538	N/A	N/A	Bottom Side	10 mm	1.02	0.781	0.641	0.344	0.566	0.568	0.366	
Mode	Service/ Modulation	Frequency (MHz)	Channel	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)						
									7	22	37	52	67	82	
LTE Band 12	10M_QPSK	707.5	23095	1	0	Left Side	10 mm	0.265	0.068	0.142	0.045	0.09	0.144	0.116	
Mode	Service/ Modulation	Frequency (MHz)	Channel	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)						
									8	23	38	53	68	83	
LTE Band 13	10M_QPSK	782	23230	1	49	Back	10 mm	0.358	0.063	0.113	0.012	0.015	0.079	0.141	
Mode	Service/ Modulation	Frequency (MHz)	Channel	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)						
									9	24	39	54	69	84	
LTE Band 26	15M_QPSK	841.5	26965	1	0	Back	10 mm	0.382	0.078	0.016	0.21	0.04	0.1	0.023	
Mode	Service/ Modulation	Frequency (MHz)	Channel	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)						
									10	25	40	55	70	85	
LTE Band 5	10M_QPSK	836.5	20525	1	0	Back	10 mm	0.432	0.118	0.012	0.015	0.065	0.116	0.023	
Mode	Service/ Modulation	Frequency (MHz)	Channel	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)						
									11	26	41	56	71	86	
LTE Band 71	20M_QPSK	683	133322	1	0	Back	10 mm	0.225	0.201	0.053	0.138	0.202	0.158	0	
Mode	Service/ Modulation	Frequency (MHz)	Channel	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)						
									12	27	42	57	72	87	
LTE Band 2	20M_QPSK	1900	19100	100	0	Bottom Side	10 mm	1.16	0.983	1.15	1.13	0.834	0.612	1.03	
Mode	Service/ Modulation	Frequency (MHz)	Channel	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)						
									13	28	43	58	73	88	
LTE Band 25	20M_QPSK	1905	26590	100	0	Bottom Side	10 mm	1.08	1.07	1.01	1.06	0.9	0.819	1.02	
Mode	Service/ Modulation	Frequency (MHz)	Channel	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)						
									14	29	44	59	74	89	
LTE Band 66	20M_QPSK	1745	132322	50	0	Bottom Side	10 mm	0.952	0.148	0.124	0.135	0.102	0.072	0.097	



<WWAN Antenna 2>

Mode	Service/ Modulation	Frequency (MHz)	Channel	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)						
									0	15	30	45	60	75	90
GSM850	GPRS(3 Tx slots)	824.2	128	N/A	N/A	Back	10 mm	0.538	0.169	0.049	0.276	0.01	0.01	0.046	0.268
Mode	Service/ Modulation	Frequency (MHz)	Channel	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)						
									1	16	31	46	61	76	91
GSM1900	GPRS(3 Tx slots)	1850.2	512	N/A	N/A	Top Side	10 mm	0.379	0.056	0.001	0.001	0.001	0.068	0.073	0.067
Mode	Service/ Modulation	Frequency (MHz)	Channel	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)						
									2	17	32	47	62	77	92
CDMA2000 BC0	RTAP 153.6Kbps	777	848.31	N/A	N/A	Back	10 mm	0.645	0.084	0.001	0.127	0.001	0.324	0.121	0.057
Mode	Service/ Modulation	Frequency (MHz)	Channel	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)						
									3	18	33	48	63	78	93
CDMA2000 BC1	RTAP 153.6Kbps	1851.25	25	N/A	N/A	Top Side	10 mm	0.852	0.138	0.072	0.068	0.112	0.13	0.066	0.001
Mode	Service/ Modulation	Frequency (MHz)	Channel	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)						
									4	19	34	49	64	79	94
WCDMA Band V	RMC 12.2Kbps	846.6	4233	N/A	N/A	Back	10 mm	0.586	0.102	0.043	0.079	0.295	0.182	0.123	0.001
Mode	Service/ Modulation	Frequency (MHz)	Channel	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)						
									5	20	35	50	65	80	95
WCDMA Band IV	RMC 12.2Kbps	1732.6	1413	N/A	N/A	Top Side	10 mm	0.909	0.239	0.216	0.196	0.22	0.368	0.219	0.144
Mode	Service/ Modulation	Frequency (MHz)	Channel	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)						
									6	21	36	51	66	81	
WCDMA Band II	RMC 12.2Kbps	1880	9400	N/A	N/A	Top Side	10 mm	0.846	0.108	0.041	0.199	0.104	0.046	0.048	
Mode	Service/ Modulation	Frequency (MHz)	Channel	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)						
									7	22	37	52	67	82	
LTE Band 12	10M_QPSK	707.5	23095	1	0	Back	10 mm	0.482	0.395	0.065	0.001	0.131	0.334	0.08	
Mode	Service/ Modulation	Frequency (MHz)	Channel	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)						
									8	23	38	53	68	83	
LTE Band 13	10M_QPSK	782	23230	1	49	Back	10 mm	0.537	0.234	0.052	0.001	0.311	0.071	0.062	
Mode	Service/ Modulation	Frequency (MHz)	Channel	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)						
									9	24	39	54	69	84	
LTE Band 26	15M_QPSK	821.5	26765	1	0	Back	10 mm	0.523	0.148	0.001	0.057	0.251	0.001	0.001	
Mode	Service/ Modulation	Frequency (MHz)	Channel	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)						
									10	25	40	55	70	85	
LTE Band 5	10M_QPSK	836.5	20525	1	0	Back	10 mm	0.581	0.153	0.06	0.27	0.197	0.001	0.001	
Mode	Service/ Modulation	Frequency (MHz)	Channel	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)						
									11	26	41	56	71	86	
LTE Band 71	20M_QPSK	683	133322	1	0	Back	10 mm	0.5	0.268	0	0	0.274	0.094	0	
Mode	Service/ Modulation	Frequency (MHz)	Channel	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)						
									12	27	42	57	72	87	
LTE Band 2	20M_QPSK	1880	18900	1	0	Top Side	10 mm	0.733	0.208	0.052	0.001	0.055	0.048	0.054	
Mode	Service/ Modulation	Frequency (MHz)	Channel	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)						
									13	28	43	58	73	88	
LTE Band 25	20M_QPSK	1905	26590	1	0	Back	10 mm	0.689	0.091	0.001	0.001	0.001	0.001	0.001	
Mode	Service/ Modulation	Frequency (MHz)	Channel	RB Size	RB Offset	Test Position	Spacing	Measured 1g SAR (W/kg)	Average Value of Time Sweep (W/kg)						
									14	29	44	59	74	89	
LTE Band 66	20M_QPSK	1745	132322	1	0	Back	10 mm	0.744	0.189	0.108	0.095	0.089	0.1	0.16	

Test Engineer : Johnny Chen



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 941225 D01 v03r01, "3G SAR MEAUREMENT PROCEDURES", Oct 2015
- [11] FCC KDB 941225 D05 v02r05, "SAR Evaluation Considerations for LTE Devices", Dec 2015
- [12] FCC KDB 941225 D05A v01r02, "Rel. 10 LTE SAR Test Guidance and KDB Inquiries", Oct 2015
- [13] FCC KDB 941225 D06 v02r01, "SAR Evaluation Procedures for Portable Devices with Wireless Router Capabilities", Oct 2015.



Appendix A. Plots of System Performance Check

The plots are shown as follows.

System Check_Head_750MHz

DUT: D750V3-SN:1099

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

Medium: HSL_750_180802 Medium parameters used: $f = 750$ MHz; $\sigma = 0.88$ S/m; $\epsilon_r = 40.752$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.5 °C ; Liquid Temperature : 22.4 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3819; ConvF(10.06, 10.06, 10.06); Calibrated: 2018.01.31;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1437; Calibrated: 2017.09.15
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1670
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Pin=250mW/Area Scan (61x61x1): Interpolated grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 2.54 W/kg

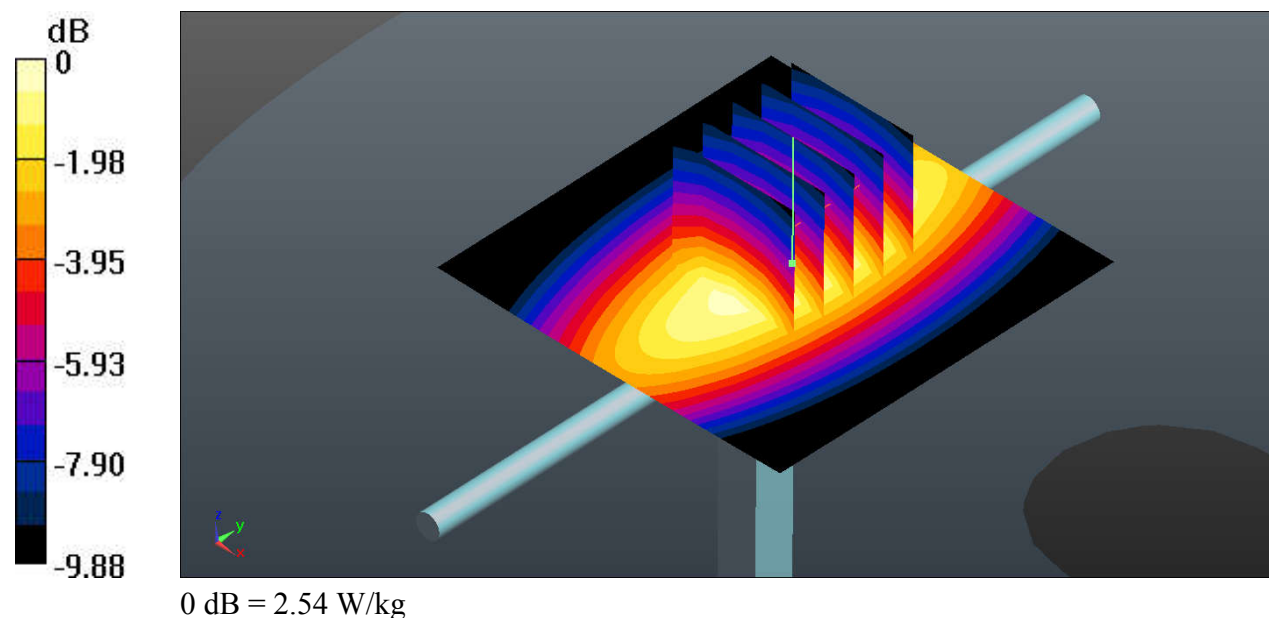
Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 54.97 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 3.08 W/kg

SAR(1 g) = 2.12 W/kg; SAR(10 g) = 1.42 W/kg

Maximum value of SAR (measured) = 2.65 W/kg



System Check_Head_835MHz

DUT: D835V2-SN:4d162

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

Medium: HSL_835_180803 Medium parameters used: $f = 835$ MHz; $\sigma = 0.886$ S/m; $\epsilon_r = 39.608$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.4 °C; Liquid Temperature : 22.7 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3819; ConvF(9.66, 9.66, 9.66); Calibrated: 2018.01.31;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1437; Calibrated: 2017.09.15
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1670
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Pin=250mW/Area Scan (61x61x1): Interpolated grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 3.10 W/kg

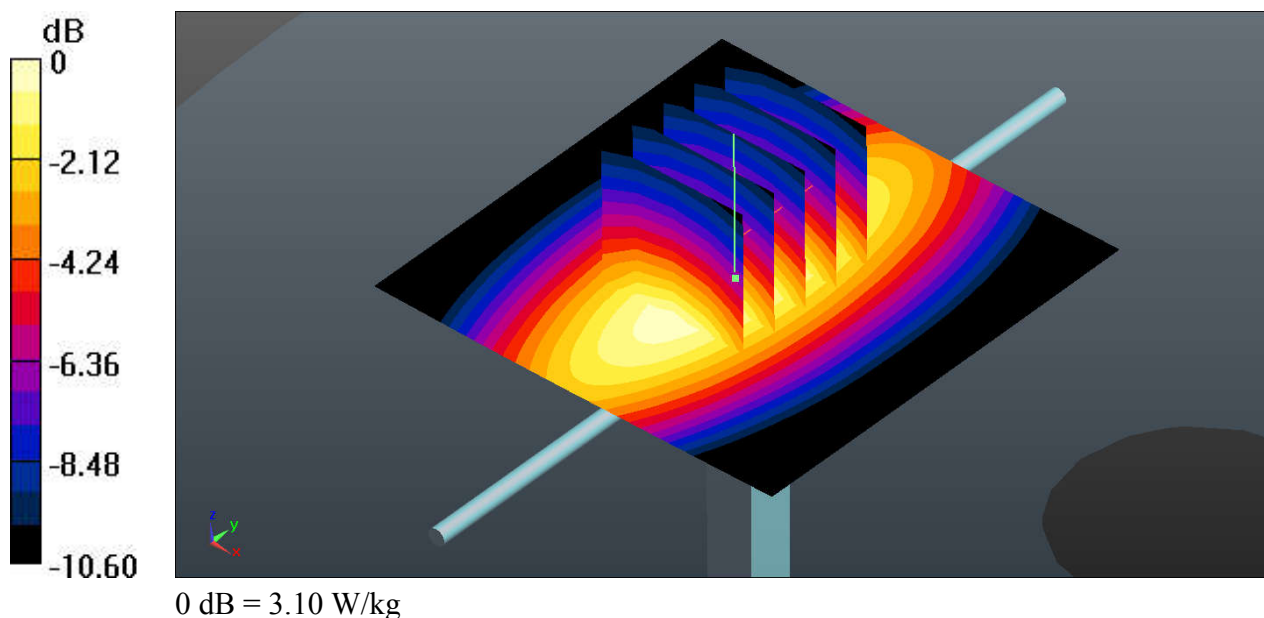
Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 60.42 V/m; Power Drift = -0.08 dB

Peak SAR (extrapolated) = 3.54 W/kg

SAR(1 g) = 2.43 W/kg; SAR(10 g) = 1.6 W/kg

Maximum value of SAR (measured) = 3.05 W/kg



System Check_Head_1750MHz

DUT: D1750V2-SN:1069

Communication System: UID 0, CW; Frequency: 1750 MHz; Duty Cycle: 1:1

Medium: HSL_1750_180805 Medium parameters used: $f = 1750$ MHz; $\sigma = 1.404$ S/m; $\epsilon_r = 40.106$;
 $\rho = 1000$ kg/m³

Ambient Temperature : 23.5 °C ; Liquid Temperature : 22.7 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3819; ConvF(8.37, 8.37, 8.37); Calibrated: 2018.01.31;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1437; Calibrated: 2017.09.15
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1670
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Pin=250mW/Area Scan (61x61x1): Interpolated grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 13.1 W/kg

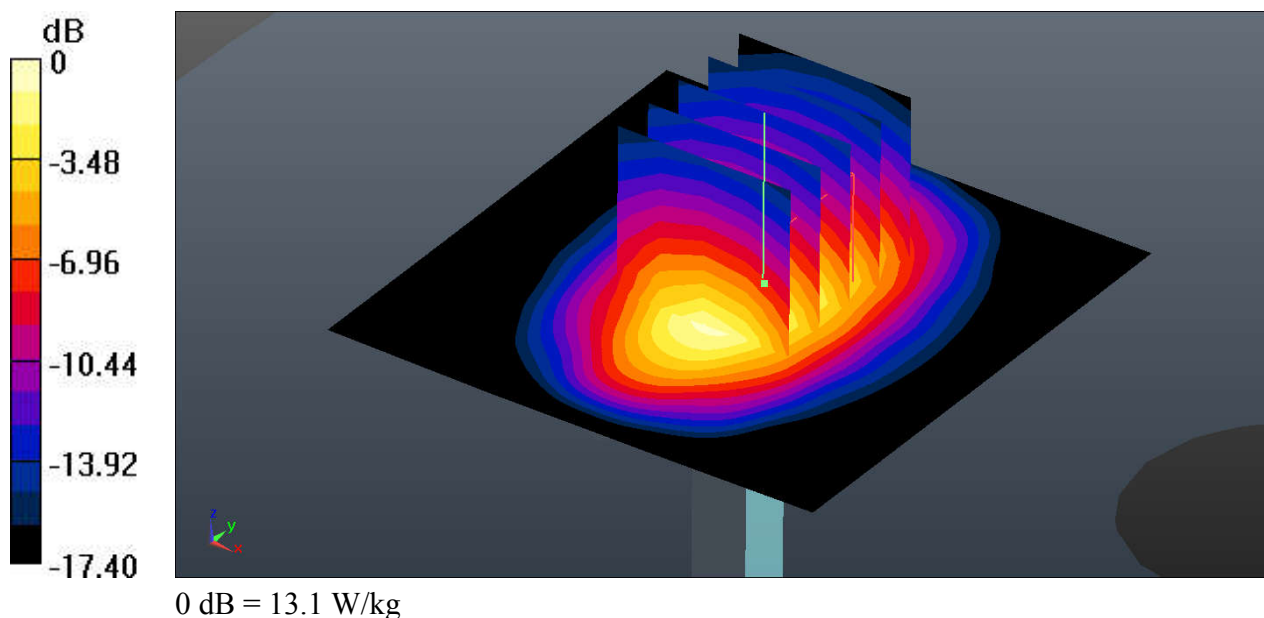
Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 96.58 V/m; Power Drift = -0.01 dB

Peak SAR (extrapolated) = 16.1 W/kg

SAR(1 g) = 9.07 W/kg; SAR(10 g) = 4.89 W/kg

Maximum value of SAR (measured) = 12.5 W/kg



System Check_Head_1900MHz

DUT: D1900V2-SN:5d182

Communication System: UID 0, CW; Frequency: 1900 MHz; Duty Cycle: 1:1

Medium: HSL_1900_180810 Medium parameters used: $f = 1900$ MHz; $\sigma = 1.44$ S/m; $\epsilon_r = 40.038$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.4 °C ; Liquid Temperature : 22.9 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3819; ConvF(8.13, 8.13, 8.13); Calibrated: 2018.01.31;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1437; Calibrated: 2017.09.15
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1670
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Pin=250mW/Area Scan (61x61x1): Interpolated grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 14.2 W/kg

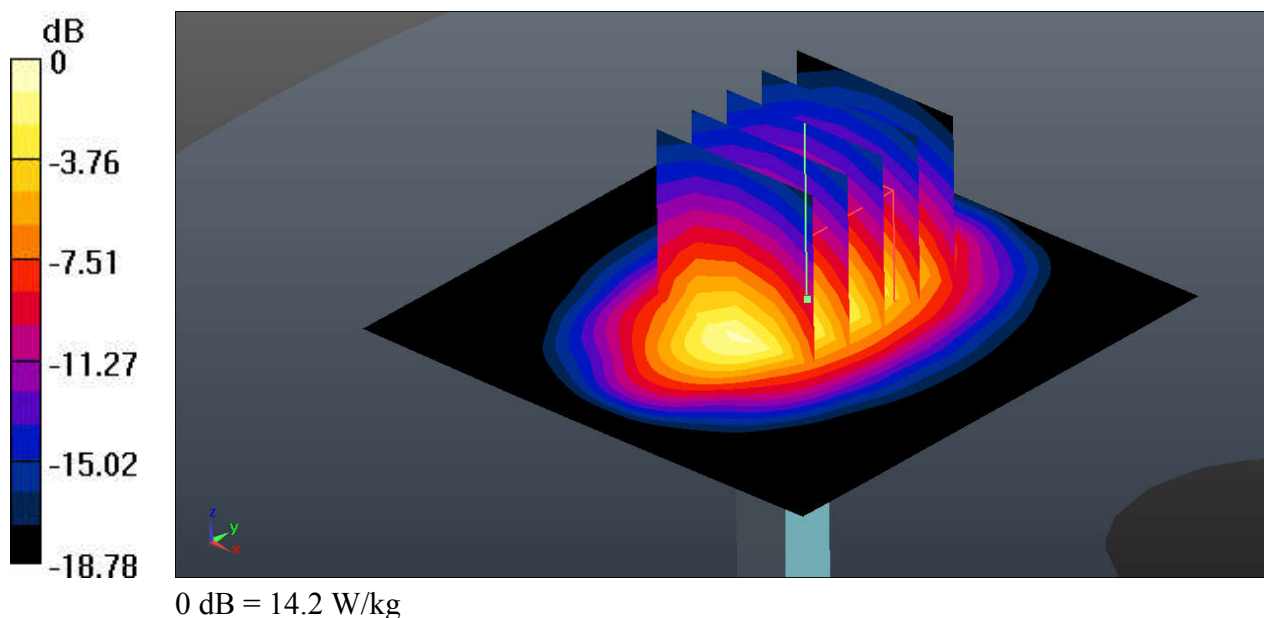
Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 99.01 V/m; Power Drift = -0.06 dB

Peak SAR (extrapolated) = 17.5 W/kg

SAR(1 g) = 9.54 W/kg; SAR(10 g) = 4.94 W/kg

Maximum value of SAR (measured) = 13.5 W/kg



System Check_Head_2300MHz

DUT: D2300V2-SN:1056

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

Medium: HSL_2300_180807 Medium parameters used: $f = 2300$ MHz; $\sigma = 1.67$ S/m; $\epsilon_r = 38.754$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.6 °C ; Liquid Temperature : 22.4 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3958; ConvF(8.38, 8.38, 8.38); Calibrated: 2018.01.11;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1303; Calibrated: 2017.12.19
- Phantom: SAM (Front) with CRP v5.0; Type: QD000P40CD; Serial: TP:1795
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Pin=250mW/Area Scan (81x81x1): Interpolated grid: dx=12mm, dy=12mm

Maximum value of SAR (interpolated) = 16.0 W/kg

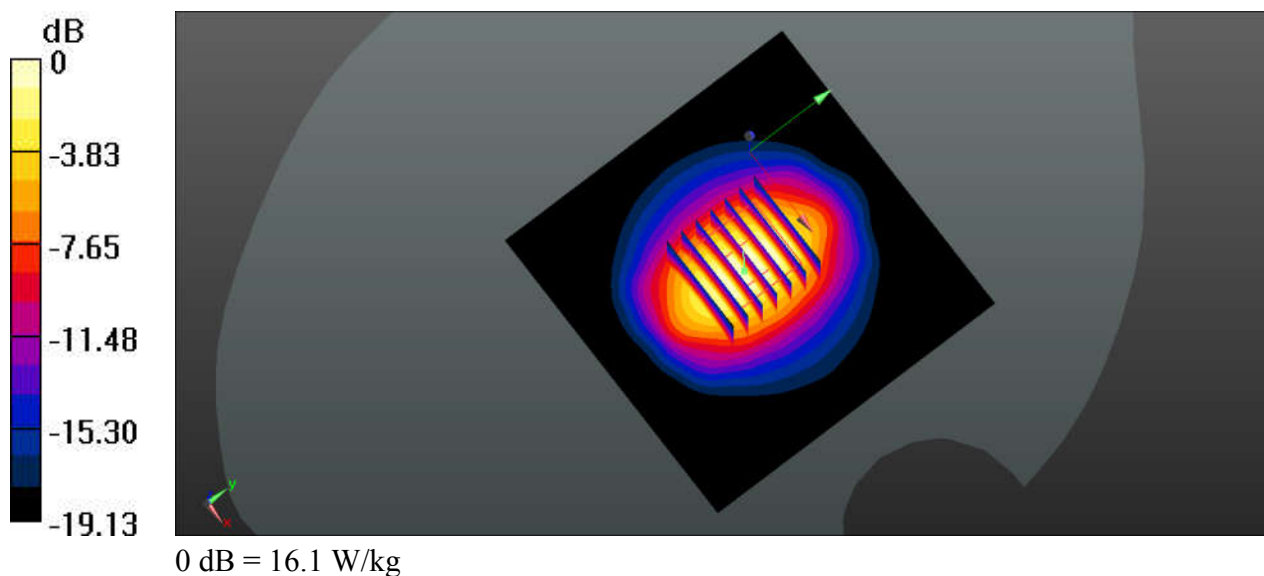
Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 98.99 V/m; Power Drift = -0.06 dB

Peak SAR (extrapolated) = 20.8 W/kg

SAR(1 g) = 10.9 W/kg; SAR(10 g) = 5.38 W/kg

Maximum value of SAR (measured) = 16.1 W/kg



System Check_Head_2450MHz

DUT: D2450V2-SN:924

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

Medium: HSL_2450_180812 Medium parameters used: $f = 2450$ MHz; $\sigma = 1.822$ S/m; $\epsilon_r = 37.986$;
 $\rho = 1000$ kg/m³

Ambient Temperature : 23.4 °C; Liquid Temperature : 22.5 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3958; ConvF(7.92, 7.92, 7.92); Calibrated: 2018.01.11;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1303; Calibrated: 2017.12.19
- Phantom: SAM (Front) with CRP v5.0; Type: QD000P40CD; Serial: TP:1795
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Pin=250mW/Area Scan (71x81x1): Interpolated grid: dx=12mm, dy=12mm

Maximum value of SAR (interpolated) = 19.1 W/kg

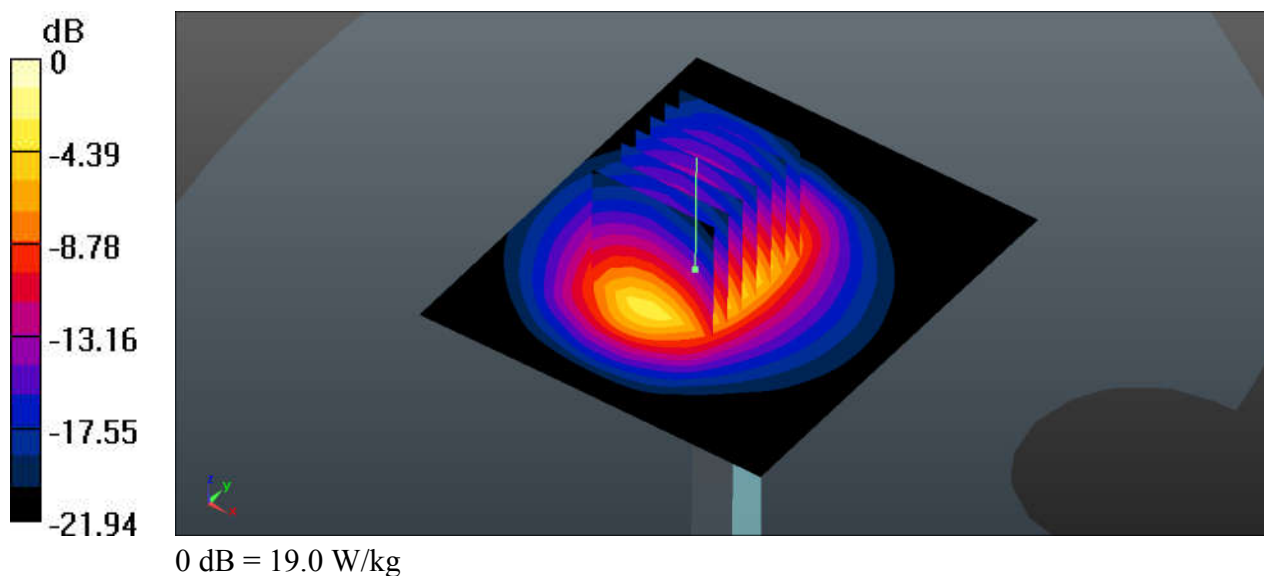
Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 75.23 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 25.8 W/kg

SAR(1 g) = 12.4 W/kg; SAR(10 g) = 5.77 W/kg

Maximum value of SAR (measured) = 19.0 W/kg



System Check_Head_2450MHz**DUT: D2450V2 - SN:840**

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

Medium: HSL_2450 Medium parameters used: $f = 2450$ MHz; $\sigma = 1.848$ S/m; $\epsilon_r = 39.012$; $\rho = 1000$ kg/m³

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

DASY5 Configuration:

- Probe: EX3DV4 - SN3954; ConvF(7.49, 7.49, 7.49); Calibrated: 2018.1.31;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1210; Calibrated: 2018.5.28
- Phantom: SAM1; Type: SAM; Serial: TP-1842
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Pin=250mW/Area Scan (71x71x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 20.3 W/kg

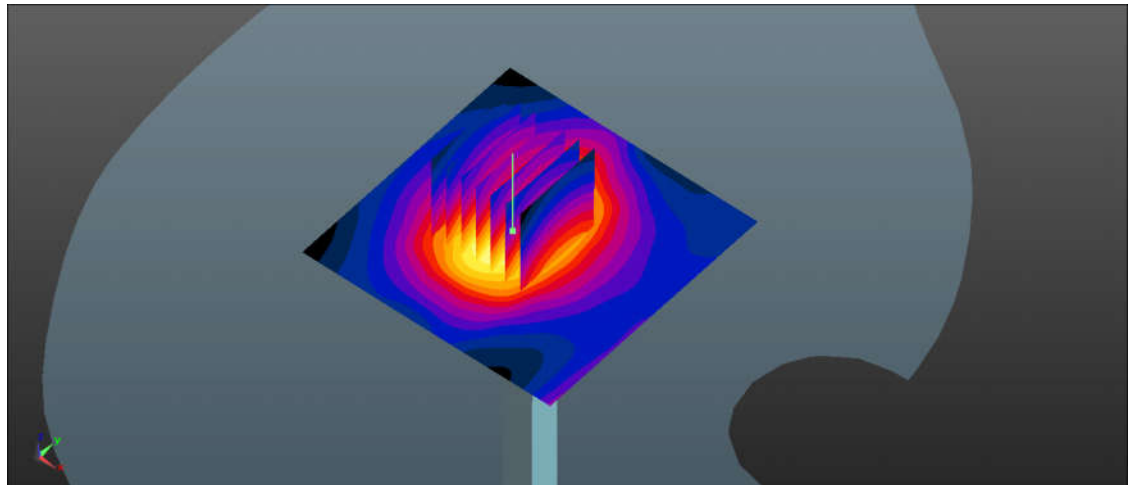
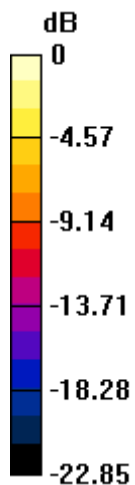
Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 83.13 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 23.5 W/kg

SAR(1 g) = 12.9 W/kg; SAR(10 g) = 6.32 W/kg

Maximum value of SAR (measured) = 18.6 W/kg



0 dB = 20.3 W/kg = 13.07 dBW/kg

System Check_Head_2600MHz

DUT: D2600V2-SN:1070

Communication System: UID 0, CW (0); Frequency: 2600 MHz; Duty Cycle: 1:1

Medium: HSL_2600_180806 Medium parameters used: $f = 2600$ MHz; $\sigma = 2.056$ S/m; $\epsilon_r = 37.284$;

$\rho = 1000$ kg/m³

Ambient Temperature : 23.6 °C ; Liquid Temperature : 22.7 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3958; ConvF(7.82, 7.82, 7.82); Calibrated: 2018.01.11;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1303; Calibrated: 2017.12.19
- Phantom: SAM (Front) with CRP v5.0; Type: QD000P40CD; Serial: TP:1795
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Pin=250mW/Area Scan (71x71x1): Interpolated grid: dx=12mm, dy=12mm

Maximum value of SAR (interpolated) = 22.8 W/kg

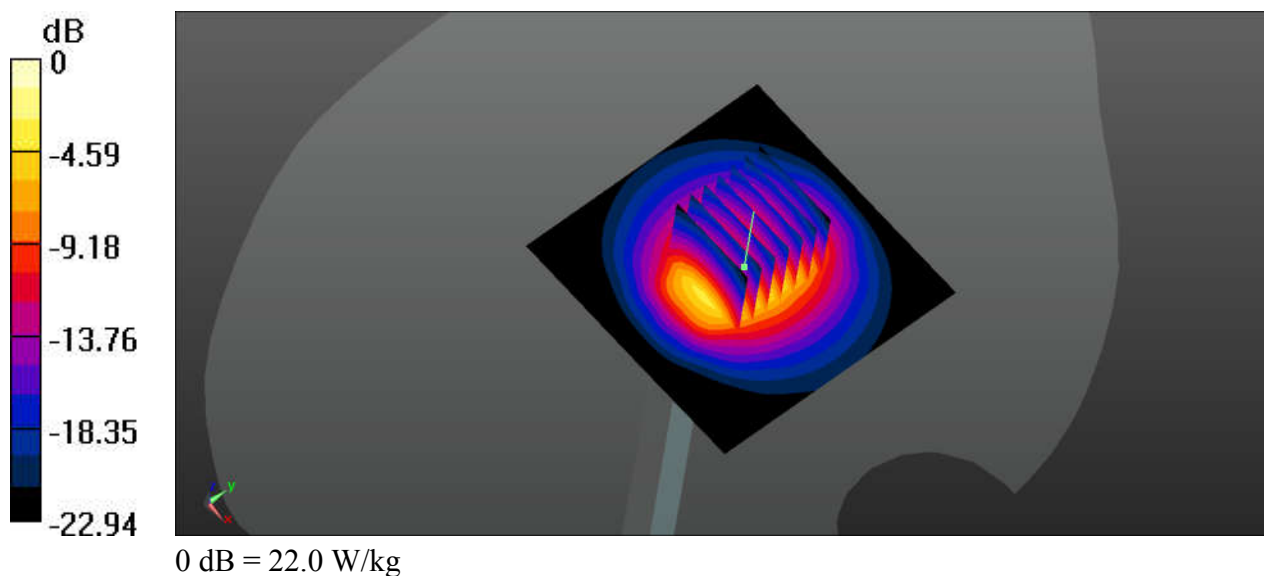
Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 104.7 V/m; Power Drift = -0.09 dB

Peak SAR (extrapolated) = 29.7 W/kg

SAR(1 g) = 14.1 W/kg; SAR(10 g) = 6.27 W/kg

Maximum value of SAR (measured) = 22.0 W/kg



System Check_Head_5250MHz

DUT: D5GHzV2-SN:1167

Communication System: UID 0, CW (0); Frequency: 5250 MHz; Duty Cycle: 1:1

Medium: HSL_5250_180823 Medium parameters used: $f = 5250$ MHz; $\sigma = 4.580$ S/m; $\epsilon_r = 36.661$;

$\rho = 1000$ kg/m³

Ambient Temperature : 23.5 °C ; Liquid Temperature : 22.8 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3958; ConvF(5.77, 5.77, 5.77); Calibrated: 2018.01.11;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1303; Calibrated: 2017.12.19
- Phantom: SAM (Front) with CRP v5.0; Type: QD000P40CD; Serial: TP:1795
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Pin=100mW/Area Scan (71x71x1): Interpolated grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 18.5 W/kg

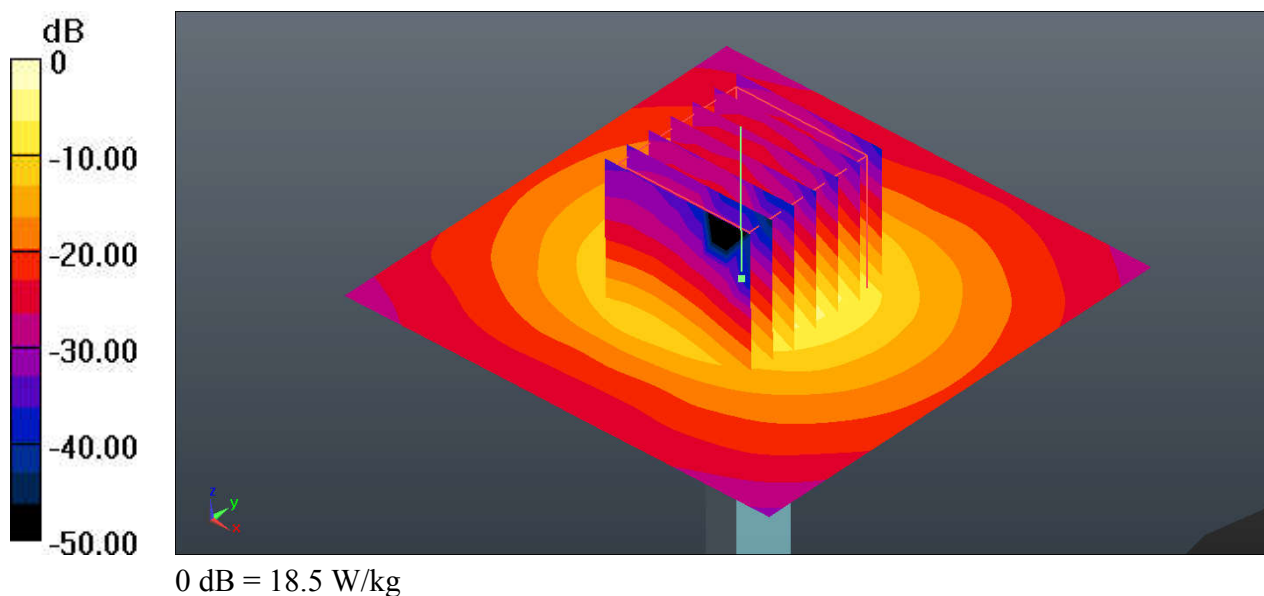
Pin=100mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 57.65 V/m; Power Drift = -0.19 dB

Peak SAR (extrapolated) = 29.8 W/kg

SAR(1 g) = 7.37 W/kg; SAR(10 g) = 2.04 W/kg

Maximum value of SAR (measured) = 17.8 W/kg



System Check_Head_5600MHz

DUT: D5GHzV2-SN:1006

Communication System: UID 0, CW (0); Frequency: 5600 MHz; Duty Cycle: 1:1

Medium: HSL_5000 Medium parameters used: $f = 5600$ MHz; $\sigma = 5.207$ S/m; $\epsilon_r = 36.587$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.4 °C; Liquid Temperature : 22.6 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3954; ConvF(4.59, 4.59, 4.59); Calibrated: 2018.1.31;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1210; Calibrated: 2018.5.28
- Phantom: SAM1; Type: SAM; Serial: TP-1842
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Pin=100mW/Area Scan (71x71x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 16.2 W/kg

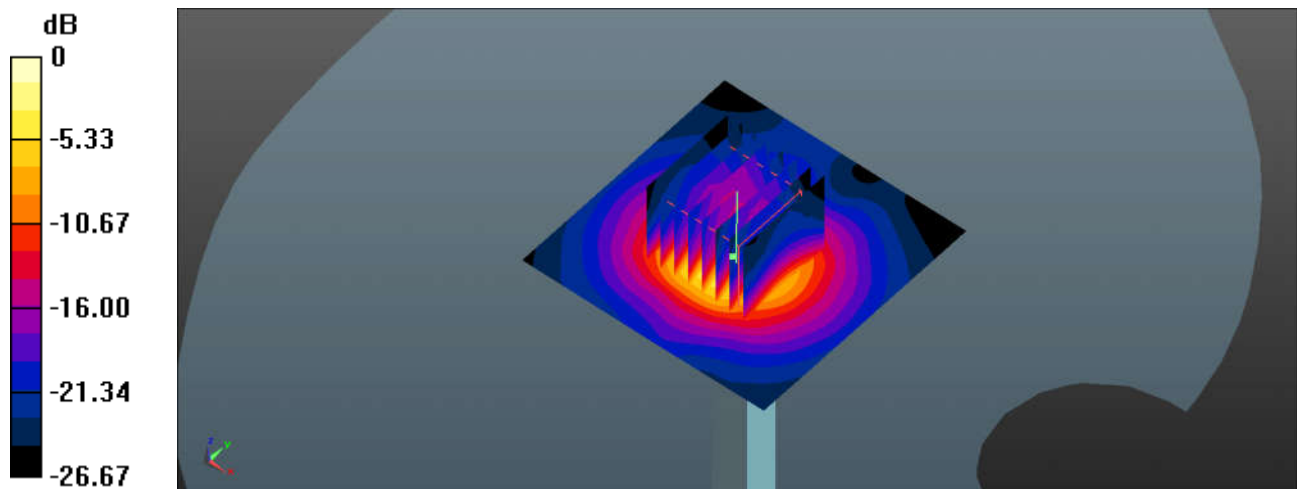
Pin=100mW/Zoom Scan (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 35.78 V/m; Power Drift = -0.06 dB

Peak SAR (extrapolated) = 26.2 W/kg

SAR(1 g) = 8.22 W/kg; SAR(10 g) = 2.43 W/kg

Maximum value of SAR (measured) = 15.8 W/kg



0 dB = 16.2 W/kg = 12.10 dBW/kg

System Check_Head_5750MHz

DUT: D5GHzV2-SN:1006

Communication System: UID 0, CW (0); Frequency: 5750 MHz; Duty Cycle: 1:1

Medium: HSL_5000 Medium parameters used: $f = 5750$ MHz; $\sigma = 5.361$ S/m; $\epsilon_r = 36.365$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.4 °C; Liquid Temperature : 22.6 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3954; ConvF(4.74, 4.74, 4.74); Calibrated: 2018.1.31;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1210; Calibrated: 2018.5.28
- Phantom: SAM1; Type: SAM; Serial: TP-1842
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Pin=100mW/Area Scan (71x71x1): Interpolated grid: dx=1.000 mm, dy=1.000 mm

Maximum value of SAR (interpolated) = 10.2 W/kg

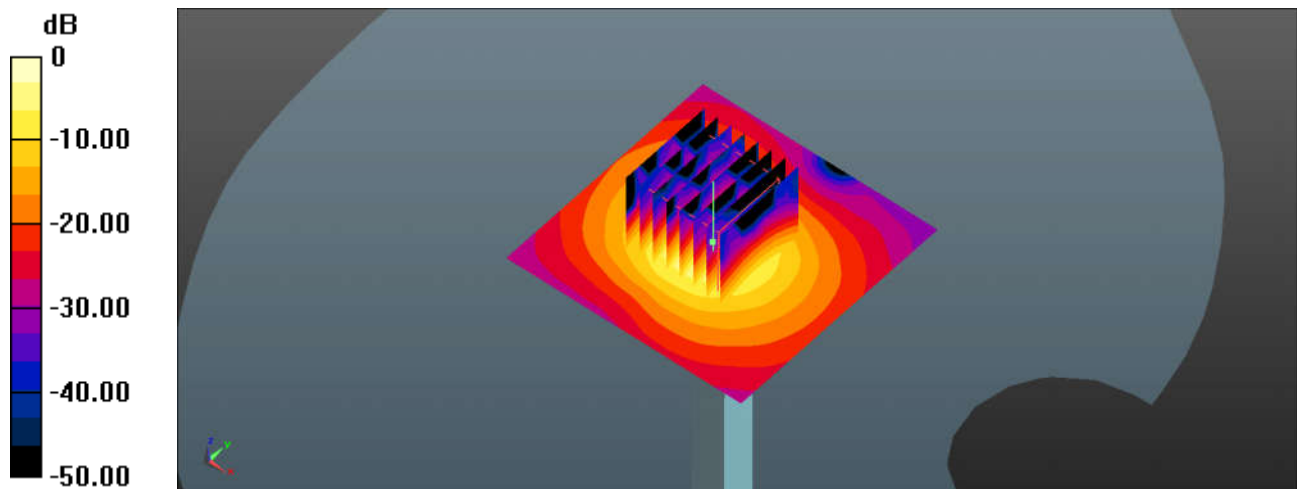
Pin=100mW/Zoom Scan (8x8x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 27.73 V/m; Power Drift = 0.07 dB

Peak SAR (extrapolated) = 19.7 W/kg

SAR(1 g) = 8.08 W/kg; SAR(10 g) = 2.15 W/kg

Maximum value of SAR (measured) = 10.1 W/kg



0 dB = 10.2 W/kg = 10.09 dBW/kg

System Check_Body_750MHz

DUT: D750V3-SN:1099

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

Medium: MSL_750_180731 Medium parameters used: $f = 750$ MHz; $\sigma = 0.97$ S/m; $\epsilon_r = 54.642$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.6 °C ; Liquid Temperature : 22.7 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3819; ConvF(9.7, 9.7, 9.7); Calibrated: 2018.01.31;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1437; Calibrated: 2017.09.15
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1670
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Pin=250mW/Area Scan (61x61x1): Interpolated grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 2.61 W/kg

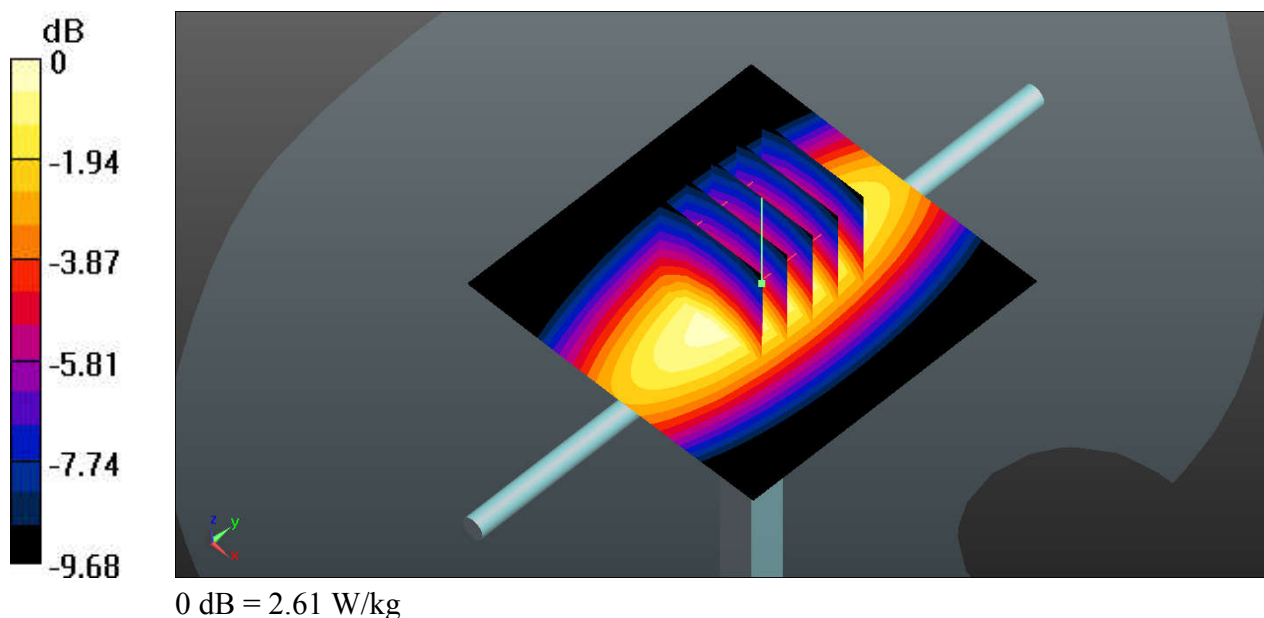
Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 53.23 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 2.98 W/kg

SAR(1 g) = 2.07 W/kg; SAR(10 g) = 1.39 W/kg

Maximum value of SAR (measured) = 2.58 W/kg



System Check_Body_835MHz

DUT: D835V2-SN:4d162

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

Medium: MSL_835_180730 Medium parameters used: $f = 835$ MHz; $\sigma = 1.011$ S/m; $\epsilon_r = 56.243$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.6 °C ; Liquid Temperature : 22.6 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3819; ConvF(9.49, 9.49, 9.49); Calibrated: 2018.01.31;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1437; Calibrated: 2017.09.15
- Phantom: SAM1; Type: QD000P40CD; Serial: TP:1670
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Pin=250mW/Area Scan (61x61x1): Interpolated grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 3.10 W/kg

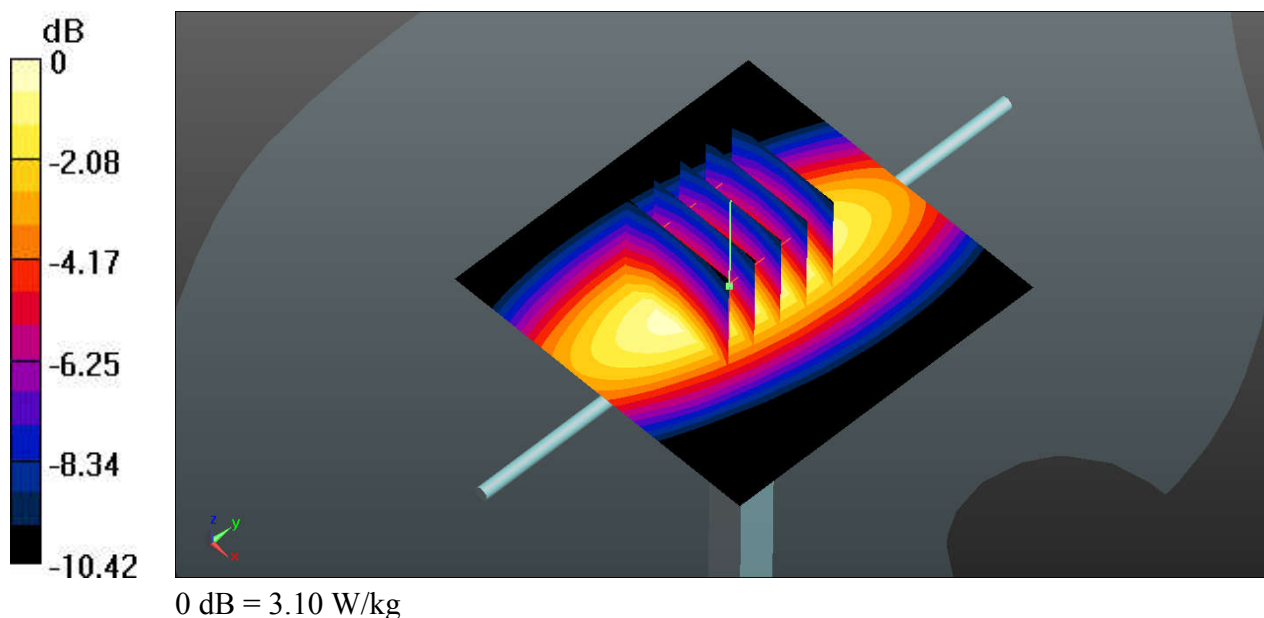
Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 56.77 V/m; Power Drift = -0.03 dB

Peak SAR (extrapolated) = 3.57 W/kg

SAR(1 g) = 2.46 W/kg; SAR(10 g) = 1.64 W/kg

Maximum value of SAR (measured) = 3.09 W/kg



System Check_Body_1750MHz

DUT: D1750V2-SN:1069

Communication System: UID 0, CW; Frequency: 1750 MHz; Duty Cycle: 1:1

Medium: MSL_1750_180801 Medium parameters used: $f = 1750$ MHz; $\sigma = 1.527$ S/m; $\epsilon_r = 52.035$;
 $\rho = 1000$ kg/m³

Ambient Temperature : 23.5 °C ; Liquid Temperature : 22.7 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3958; ConvF(8.61, 8.61, 8.61); Calibrated: 2018.01.11;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1303; Calibrated: 2017.12.19
- Phantom: SAM (Front) with CRP v5.0; Type: QD000P40CD; Serial: TP:1795
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Pin=250mW/Area Scan (61x61x1): Interpolated grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 13.0 W/kg

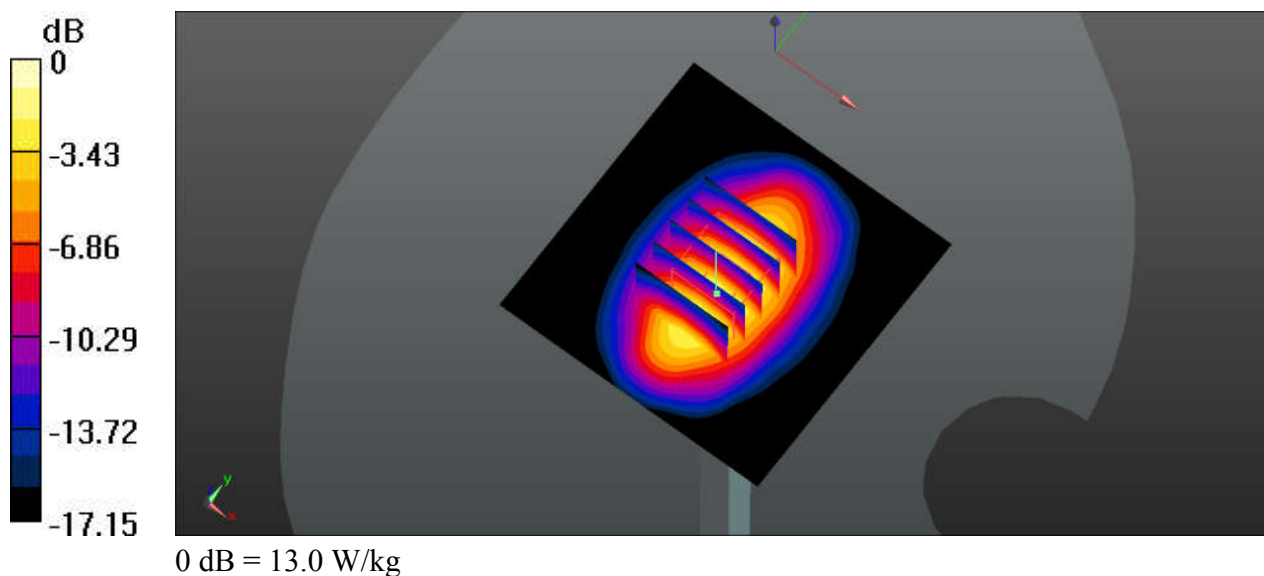
Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 92.16 V/m; Power Drift = -0.09 dB

Peak SAR (extrapolated) = 15.9 W/kg

SAR(1 g) = 9.1 W/kg; SAR(10 g) = 4.86 W/kg

Maximum value of SAR (measured) = 12.5 W/kg



System Check_Body_1900MHz

DUT: D1900V2-SN:5d182

Communication System: UID 0, CW; Frequency: 1900 MHz; Duty Cycle: 1:1

Medium: MSL_1900_180731 Medium parameters used: $f = 1900$ MHz; $\sigma = 1.531$ S/m; $\epsilon_r = 54.671$;

$\rho = 1000$ kg/m³

Ambient Temperature : 23.5 °C; Liquid Temperature : 22.6 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3958; ConvF(8.27, 8.27, 8.27); Calibrated: 2018.01.11;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1303; Calibrated: 2017.12.19
- Phantom: SAM (Front) with CRP v5.0; Type: QD000P40CD; Serial: TP:1795
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Pin=250mW/Area Scan (61x61x1): Interpolated grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 14.4 W/kg

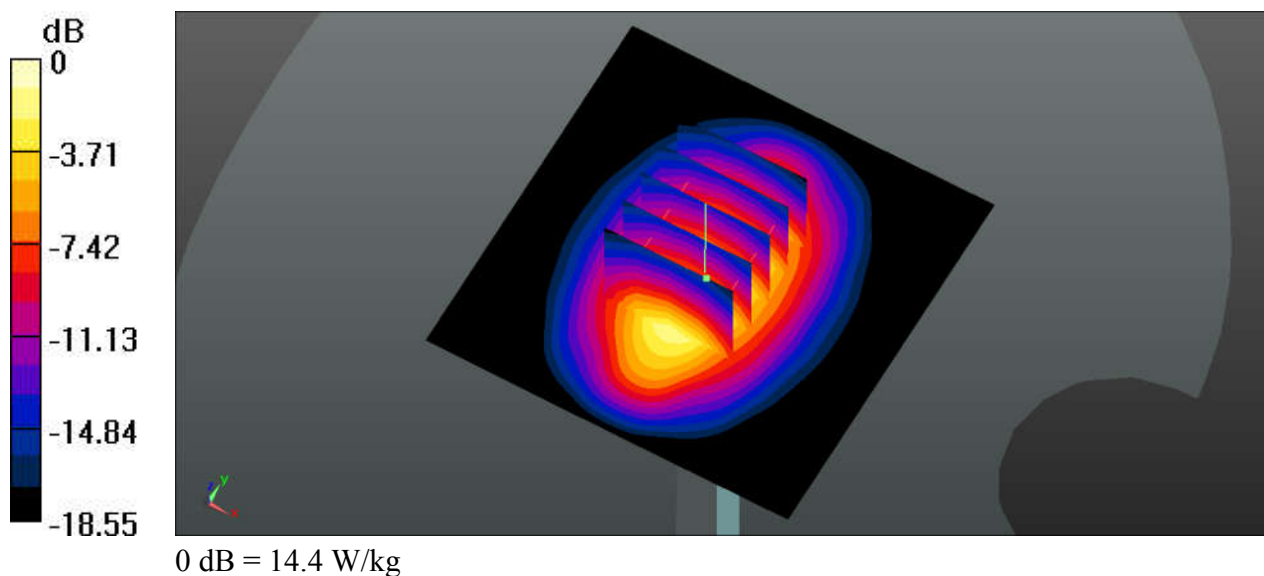
Pin=250mW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 85.67 V/m; Power Drift = -0.10 dB

Peak SAR (extrapolated) = 18.2 W/kg

SAR(1 g) = 10 W/kg; SAR(10 g) = 5.14 W/kg

Maximum value of SAR (measured) = 14.1 W/kg



System Check_Body_2300MHz

DUT: D2300V2-SN:1056

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

Medium: MSL_2300_180802 Medium parameters used: $f = 2300$ MHz; $\sigma = 1.764$ S/m; $\epsilon_r = 53.765$;

$\rho = 1000$ kg/m³

Ambient Temperature : 23.5 °C ; Liquid Temperature : 22.8 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3958; ConvF(8.14, 8.14, 8.14); Calibrated: 2018.01.11;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1303; Calibrated: 2017.12.19
- Phantom: SAM (Front) with CRP v5.0; Type: QD000P40CD; Serial: TP:1795
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Pin=250mW/Area Scan (81x81x1): Interpolated grid: dx=12mm, dy=12mm

Maximum value of SAR (interpolated) = 17.0 W/kg

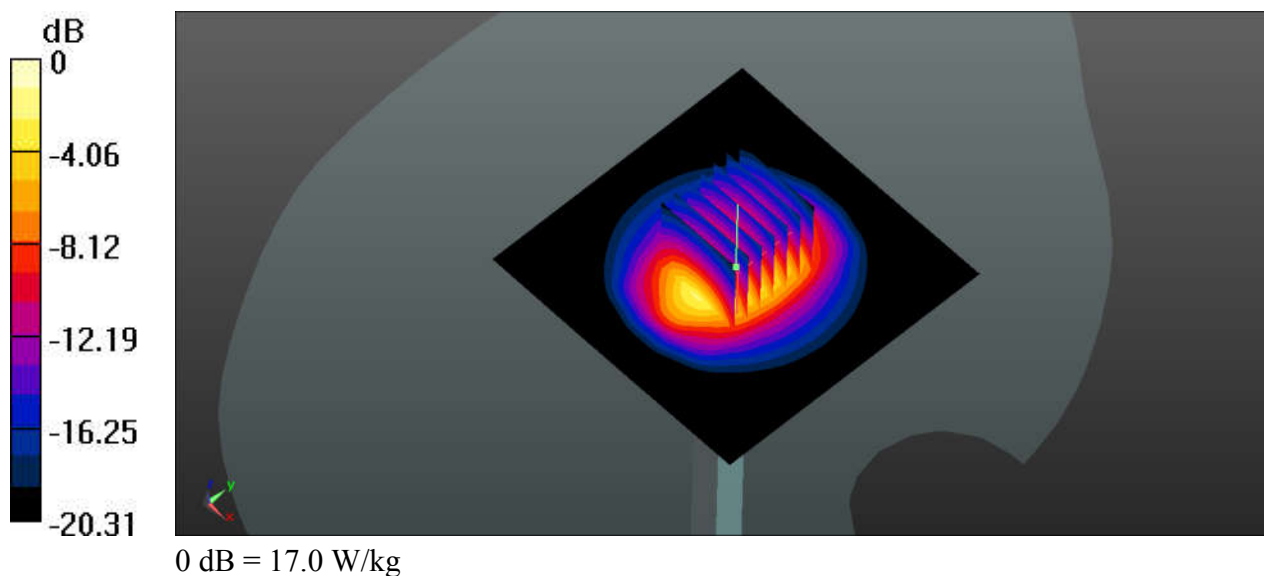
Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 98.99 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 23.1 W/kg

SAR(1 g) = 11.7 W/kg; SAR(10 g) = 5.6 W/kg

Maximum value of SAR (measured) = 17.6 W/kg



System Check_Body_2450MHz

DUT: D2450V2 - SN:840

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

Medium: MSL_2450 Medium parameters used: $f = 2450$ MHz; $\sigma = 2.021$ S/m; $\epsilon_r = 53.033$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.3 °C; Liquid Temperature : 22.5 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3954; ConvF(7.53, 7.53, 7.53); Calibrated: 2018.1.31;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1210; Calibrated: 2018.5.28
- Phantom: SAM1; Type: SAM; Serial: TP-1842
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Pin=250mW/Area Scan (81x81x1): Interpolated grid: dx=1.200 mm, dy=1.200 mm

Maximum value of SAR (interpolated) = 18.2 W/kg

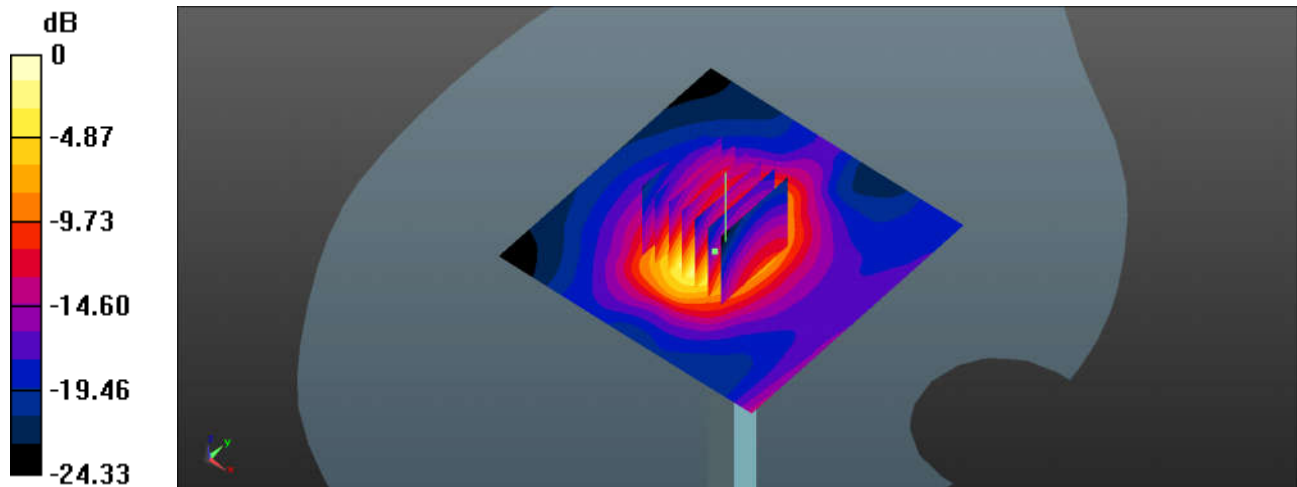
Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 78.02 V/m; Power Drift = -0.06 dB

Peak SAR (extrapolated) = 21.3 W/kg

SAR(1 g) = 12.7 W/kg; SAR(10 g) = 6.49 W/kg

Maximum value of SAR (measured) = 17.6 W/kg



0 dB = 18.2 W/kg = 12.60 dBW/kg

System Check_Body_2450MHz

DUT: D2450V2-SN:924

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

Medium: MSL_2450_180819 Medium parameters used: $f = 2450$ MHz; $\sigma = 1.977$ S/m; $\epsilon_r = 51.617$;
 $\rho = 1000$ kg/m³

Ambient Temperature : 23.8 °C ; Liquid Temperature : 22.5 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3958; ConvF(8, 8, 8); Calibrated: 2018.01.11;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1303; Calibrated: 2017.12.19
- Phantom: SAM (Front) with CRP v5.0; Type: QD000P40CD; Serial: TP:1795
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Pin=250mW/Area Scan (81x81x1): Interpolated grid: dx=12mm, dy=12mm

Maximum value of SAR (interpolated) = 19.5 W/kg

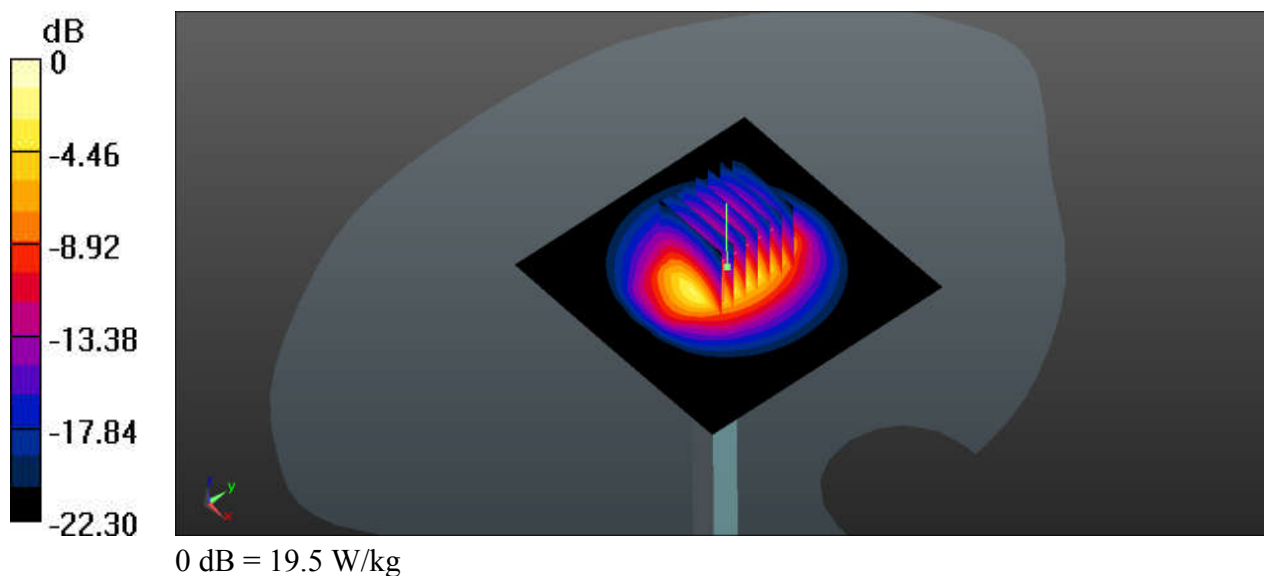
Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 82.16 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 26.7 W/kg

SAR(1 g) = 12.8 W/kg; SAR(10 g) = 5.86 W/kg

Maximum value of SAR (measured) = 19.8 W/kg



System Check_Body_2600MHz

DUT: D2600V2-SN:1070

Communication System: UID 0, CW (0); Frequency: 2600 MHz; Duty Cycle: 1:1

Medium: MSL_2600_180802 Medium parameters used: $f = 2600$ MHz; $\sigma = 2.192$ S/m; $\epsilon_r = 50.732$;

$\rho = 1000$ kg/m³

Ambient Temperature : 23.5 °C ; Liquid Temperature : 22.9 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3958; ConvF(7.84, 7.84, 7.84); Calibrated: 2018.01.11;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1303; Calibrated: 2017.12.19
- Phantom: SAM (Front) with CRP v5.0; Type: QD000P40CD; Serial: TP:1795
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Pin=250mW/Area Scan (61x71x1): Interpolated grid: dx=12mm, dy=12mm

Maximum value of SAR (interpolated) = 21.3 W/kg

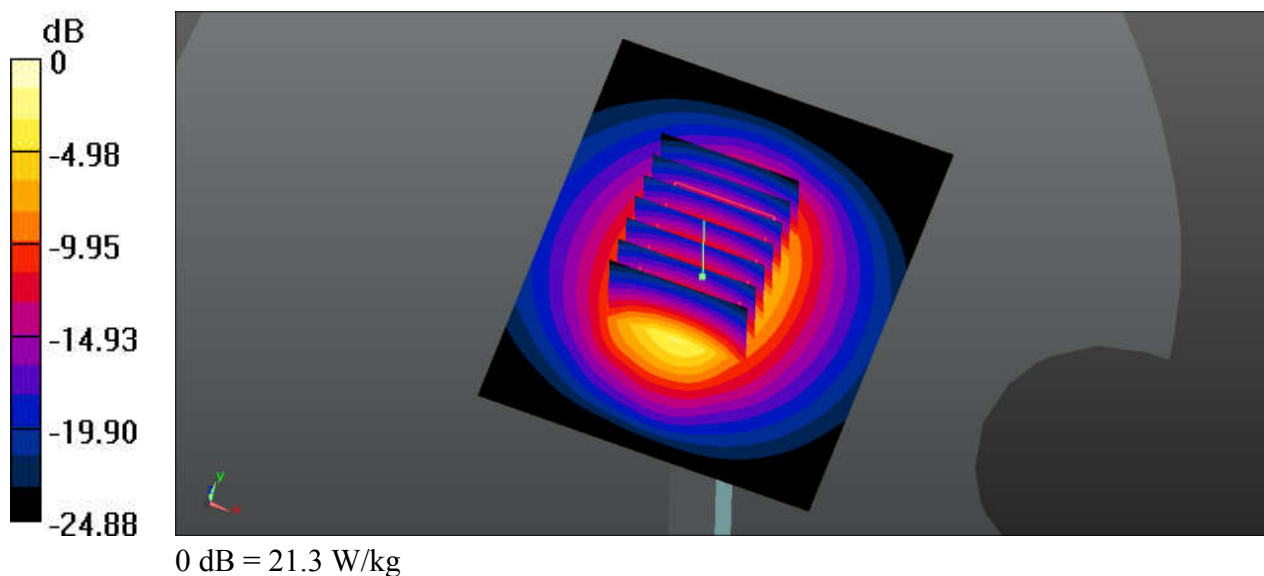
Pin=250mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 94.72 V/m; Power Drift = 0.18 dB

Peak SAR (extrapolated) = 28.6 W/kg

SAR(1 g) = 12.8 W/kg; SAR(10 g) = 5.56 W/kg

Maximum value of SAR (measured) = 20.4 W/kg



System Check_Body_5250MHz

DUT: D5GHzV2-SN:1167-5250

Communication System: UID 0, CW (0); Frequency: 5250 MHz; Duty Cycle: 1:1

Medium: MSL_5250_180821 Medium parameters used: $f = 5250$ MHz; $\sigma = 5.359$ S/m; $\epsilon_r = 48.09$; $\rho = 1000$ kg/m³

Ambient Temperature : 23.8 °C ; Liquid Temperature : 22.6 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3958; ConvF(5.2, 5.2, 5.2); Calibrated: 2018.01.11;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1303; Calibrated: 2017.12.19
- Phantom: SAM (Front) with CRP v5.0; Type: QD000P40CD; Serial: TP:1795
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Pin=100mW/Area Scan (71x71x1): Interpolated grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 18.6 W/kg

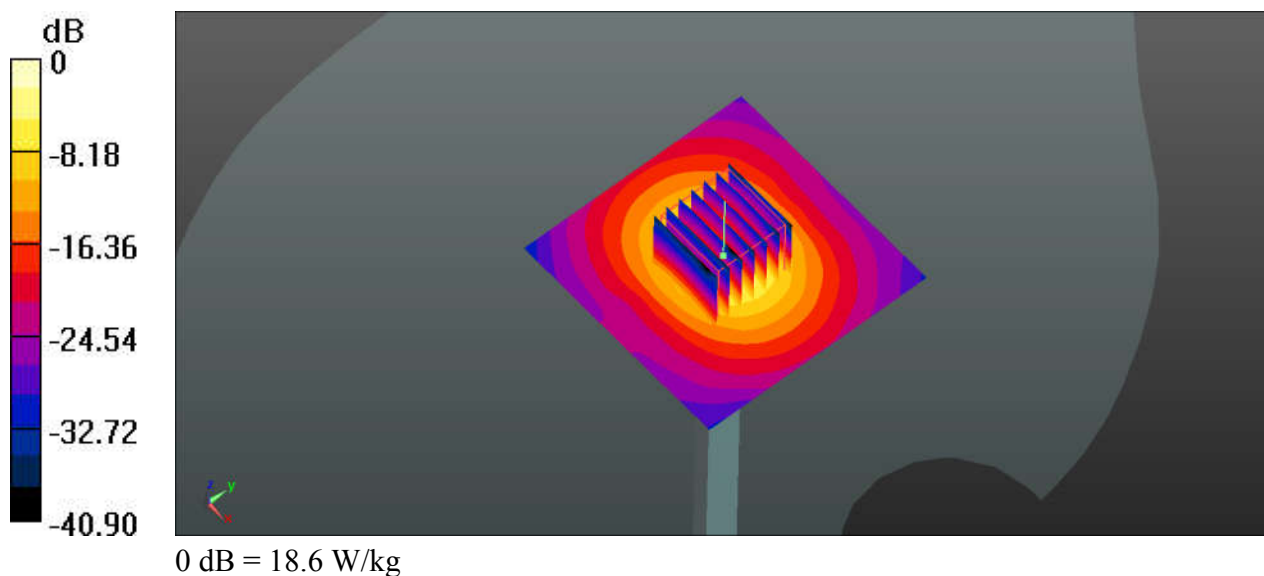
Pin=100mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 49.76 V/m; Power Drift = 0.01 dB

Peak SAR (extrapolated) = 31.2 W/kg

SAR(1 g) = 7.88 W/kg; SAR(10 g) = 2.18 W/kg

Maximum value of SAR (measured) = 19.1 W/kg



System Check_Body_5600MHz

DUT: D5GHzV2-SN:1167-5600

Communication System: UID 0, CW (0); Frequency: 5600 MHz; Duty Cycle: 1:1

Medium: MSL_5600_180821 Medium parameters used: $f = 5600$ MHz; $\sigma = 5.817$ S/m; $\epsilon_r = 47.504$;
 $\rho = 1000$ kg/m³

Ambient Temperature : 23.8 °C; Liquid Temperature : 22.7 °C

DASY5 Configuration:

- Probe: EX3DV4 - SN3958; ConvF(4.3, 4.3, 4.3); Calibrated: 2018.01.11;
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1303; Calibrated: 2017.12.19
- Phantom: SAM (Front) with CRP v5.0; Type: QD000P40CD; Serial: TP:1795
- Measurement SW: DASY52, Version 52.8 (8); SEMCAD X Version 14.6.10 (7331)

Pin=100mW/Area Scan (71x71x1): Interpolated grid: dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 20.1 W/kg

Pin=100mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 48.19 V/m; Power Drift = -0.17 dB

Peak SAR (extrapolated) = 34.5 W/kg

SAR(1 g) = 8.08 W/kg; SAR(10 g) = 2.2 W/kg

Maximum value of SAR (measured) = 20.3 W/kg

