



10MHz	1H	20600	24.3	23.10	0	22.06	1
		20525	24.3	22.95	0	<b>21.96</b>	1
		20450	24.3	23.07	0	<b>22.08</b>	1
	1M	20600	24.3	23.59	0	<b>22.79</b>	1
		20525	24.3	23.28	0	21.81	1
		20450	24.3	22.91	0	22.05	1
	1L	20600	24.3	23.30	0	21.82	1
		20525	24.3	23.11	0	21.95	1
		20450	24.3	22.83	0	21.92	1
	25H	20600	24.3	22.08	1	21.05	2
		20525	24.3	22.15	1	21.00	2
		20450	24.3	22.11	1	21.13	2
	25M	20600	24.3	22.12	1	20.99	2
		20525	24.3	22.08	1	21.07	2
		20450	24.3	22.04	1	21.06	2
	25L	20600	24.3	22.02	1	20.94	2
		20525	24.3	22.09	1	21.07	2
		20450	24.3	22.04	1	20.96	2
	50	20600	24.3	22.01	1	20.93	2
		20525	24.3	22.07	1	20.85	2
		20450	24.3	22.10	1	20.99	2

**Table 11-9 LTE700-FDD12 #1**

LTE700-FDD12 #1								
BandWidth	RB No./Start	Channel	Tune-up	Measured Power (dBm) & MPR				
				QPSK		16QAM		
				Measured Power	MPR	Measured Power	MPR	
1.4MHz	1H	23173	23.5	22.36	0	21.44	1	
		23095	23.5	22.66	0	22.00	1	
		23017	23.5	22.48	0	21.29	1	
	1M	23173	23.5	22.38	0	21.00	1	
		23095	23.5	22.68	0	22.15	1	
		23017	23.5	22.71	0	20.78	1	
	1L	23173	23.5	22.32	0	21.45	1	
		23095	23.5	22.69	0	21.45	1	
		23017	23.5	22.63	0	21.32	1	
	3H	23173	23.5	22.53	0	21.18	1	
		23095	23.5	22.70	0	21.12	1	
		23017	23.5	22.66	0	21.32	1	
	3M	23173	23.5	22.48	0	21.17	1	
		23095	23.5	22.80	0	21.56	1	
		23017	23.5	22.84	0	21.29	1	
	3L	23173	23.5	22.49	0	21.21	1	
		23095	23.5	22.72	0	21.31	1	
		23017	23.5	22.64	0	21.26	1	
	6	23173	23.5	21.42	1	20.48	2	
		23095	23.5	21.55	1	20.39	2	
		23017	23.5	21.51	1	20.31	2	
	3MHz	1H	23165	23.5	22.49	0	21.43	1
			23095	23.5	22.60	0	21.74	1
			23025	23.5	22.52	0	21.32	1
		1M	23165	23.5	22.80	0	21.50	1
			23095	23.5	22.96	0	21.81	1
			23025	23.5	22.85	0	21.81	1
1L		23165	23.5	22.47	0	21.29	1	
		23095	23.5	22.65	0	21.26	1	
		23025	23.5	22.51	0	21.24	1	
8H		23165	23.5	21.47	1	20.73	2	
		23095	23.5	21.58	1	20.44	2	
		23025	23.5	21.55	1	20.45	2	
8M		23165	23.5	21.47	1	20.78	2	
		23095	23.5	21.65	1	21.08	2	
		23025	23.5	21.54	1	20.63	2	
8L		23165	23.5	21.51	1	20.59	2	
		23095	23.5	21.59	1	20.46	2	
		23025	23.5	21.53	1	20.63	2	
15		23165	23.5	21.61	1	20.26	2	
		23095	23.5	21.67	1	20.65	2	
		23025	23.5	21.51	1	20.60	2	
5MHz		1H	23155	23.5	22.25	0	20.80	1
			23095	23.5	22.06	0	20.95	1
			23035	23.5	22.47	0	21.34	1
		1M	23155	23.5	22.55	0	20.83	1
			23095	23.5	22.80	0	21.83	1
			23035	23.5	22.67	0	21.43	1
	1L	23155	23.5	22.39	0	20.77	1	
		23095	23.5	21.99	0	21.12	1	
		23035	23.5	22.46	0	20.52	1	
	12H	23155	23.5	21.33	1	20.58	2	
		23095	23.5	21.57	1	20.55	2	
		23035	23.5	21.49	1	20.45	2	
	12M	23155	23.5	21.47	1	20.59	2	
		23095	23.5	21.66	1	20.59	2	
		23035	23.5	21.60	1	20.57	2	
	12L	23155	23.5	21.39	1	20.41	2	
		23095	23.5	21.53	1	20.38	2	
		23035	23.5	21.47	1	20.44	2	
	25	23155	23.5	21.44	1	20.67	2	
		23095	23.5	21.58	1	20.55	2	
		23035	23.5	21.56	1	20.51	2	



10MHz	1H	23130	23.5	22.30	0	<b>21.02</b>	1
		23095	23.5	22.33	0	21.08	1
		23060	23.5	22.38	0	21.40	1
	1M	23130	23.5	22.72	0	20.98	1
		23095	23.5	22.99	0	<b>21.43</b>	1
		23060	23.5	22.71	0	<b>21.85</b>	1
	1L	23130	23.5	22.54	0	20.72	1
		23095	23.5	22.33	0	21.30	1
		23060	23.5	22.31	0	21.15	1
	25H	23130	23.5	21.41	1	20.35	2
		23095	23.5	21.46	1	20.58	2
		23060	23.5	21.60	1	20.61	2
	25M	23130	23.5	21.45	1	20.61	2
		23095	23.5	21.47	1	20.65	2
		23060	23.5	21.44	1	20.39	2
	25L	23130	23.5	21.53	1	20.57	2
		23095	23.5	21.33	1	20.45	2
		23060	23.5	21.46	1	20.51	2
	50	23130	23.5	21.54	1	20.54	2
		23095	23.5	21.46	1	20.56	2
		23060	23.5	21.57	1	20.58	2

**Table 11-10 LTE750-FDD13 #1**

LTE750-FDD13 #1								
BandWidth	RB No./Start	Channel	Tune-up	Measured Power (dBm) & MPR				
				QPSK		16QAM		
				Measured Power	MPR	Measured Power	MPR	
5MHz	1H	23255	24.3	22.89	0	21.53	1	
		23230	24.3	23.01	0	21.98	1	
		23205	24.3	23.12	0	21.71	1	
	1M	23255	24.3	23.57	0	21.85	1	
		23230	24.3	23.28	0	22.37	1	
		23205	24.3	23.28	0	21.80	1	
	1L	23255	24.3	23.00	0	21.64	1	
		23230	24.3	23.02	0	21.60	1	
		23205	24.3	23.15	0	21.81	1	
	12H	23255	24.3	22.07	1	20.83	2	
		23230	24.3	22.11	1	21.02	2	
		23205	24.3	22.11	1	21.05	2	
	12M	23255	24.3	22.08	1	20.96	2	
		23230	24.3	22.08	1	20.91	2	
		23205	24.3	22.08	1	20.89	2	
	12L	23255	24.3	22.01	1	20.97	2	
		23230	24.3	22.04	1	20.79	2	
		23205	24.3	22.04	1	20.89	2	
	25	23255	24.3	22.00	1	20.75	2	
		23230	24.3	22.06	1	21.15	2	
		23205	24.3	22.10	1	20.93	2	
	10MHz	1H	H	24.3		0		1
			M	24.3		0		1
			23230	24.3	23.12	0	21.81	1
		1M	H	24.3		0		1
			M	24.3		0		1
			23230	24.3	23.08	0	21.86	1
1L		H	24.3		0		1	
		M	24.3		0		1	
		23230	24.3	22.94	0	21.34	1	
25H		H	24.3		1		2	
		M	24.3		1		2	
		23230	24.3	21.92	1	21.13	2	
25M		H	24.3		1		2	
		M	24.3		1		2	
		23230	24.3	21.92	1	21.10	2	
25L		H	24.3		1		2	
		M	24.3		1		2	
		23230	24.3	21.98	1	20.90	2	
50		H	24.3		1		2	
		M	24.3		1		2	
		23230	24.3	21.93	1	21.03	2	

**Table 11-11 LTE700-FDD17 #1**

LTE700-FDD17 #1								
BandWidth	RB No./Start	Channel	Tune-up	Measured Power (dBm) & MPR				
				QPSK		16QAM		
				Measured Power	MPR	Measured Power	MPR	
5MHz	1H	23825	23.5	22.25	0	21.31	1	
		23790	23.5	22.47	0	21.07	1	
		23755	23.5	22.46	0	21.60	1	
	1M	23825	23.5	22.43	0	21.46	1	
		23790	23.5	22.70	0	21.68	1	
		23755	23.5	22.94	0	22.00	1	
	1L	23825	23.5	22.34	0	20.75	1	
		23790	23.5	22.57	0	21.22	1	
		23755	23.5	22.45	0	21.66	1	
	12H	23825	23.5	21.43	1	20.29	2	
		23790	23.5	21.54	1	20.38	2	
		23755	23.5	21.63	1	20.46	2	
	12M	23825	23.5	21.59	1	20.41	2	
		23790	23.5	21.67	1	20.68	2	
		23755	23.5	21.73	1	20.39	2	
	12L	23825	23.5	21.52	1	20.49	2	
		23790	23.5	21.64	1	20.50	2	
		23755	23.5	21.79	1	20.58	2	
	25	23825	23.5	21.53	1	20.66	2	
		23790	23.5	21.67	1	20.84	2	
		23755	23.5	21.67	1	20.86	2	
	10MHz	1H	23800	23.5	22.53	0	21.14	1
			23790	23.5	22.49	0	21.20	1
			23780	23.5	22.50	0	21.53	1
		1M	23800	23.5	22.61	0	22.11	1
			23790	23.5	22.80	0	21.46	1
			23780	23.5	22.72	0	21.94	1
1L		23800	23.5	22.44	0	21.65	1	
		23790	23.5	22.76	0	20.92	1	
		23780	23.5	22.72	0	21.81	1	
25H		23800	23.5	21.53	1	20.54	2	
		23790	23.5	21.55	1	20.53	2	
		23780	23.5	21.65	1	20.69	2	
25M		23800	23.5	21.68	1	20.70	2	
		23790	23.5	21.86	1	20.71	2	
		23780	23.5	21.68	1	20.79	2	
25L		23800	23.5	21.62	1	20.62	2	
		23790	23.5	21.66	1	20.69	2	
		23780	23.5	21.62	1	20.70	2	
50		23800	23.5	21.57	1	20.55	2	
		23790	23.5	21.47	1	20.58	2	
		23780	23.5	21.63	1	20.56	2	

**Table 11-12 LTE1700-FDD66 #1 Low Power**

LTE1700-FDD66 #1									
SN	BandWidth	RB No./Start	Channel	Tune-up	Measured Power (dBm) & MPR				
					QPSK		16QAM		
					Measured Power	MPR	Measured Power	MPR	
1.4MHz	1H		132665	21	20.18	0	20.12	0	
			132322	21	20.31	0	20.63	0	
			131979	21	20.28	0	20.19	0	
	1M		132665	21	20.30	0	20.04	0	
			132322	21	20.63	0	20.90	0	
			131979	21	20.30	0	20.15	0	
	1L		132665	21	20.48	0	20.15	0	
			132322	21	20.36	0	20.69	0	
			131979	21	20.35	0	20.19	0	
	3H		132665	21	20.26	0	20.05	0	
			132322	21	20.48	0	20.57	0	
			131979	21	20.24	0	20.06	0	
	3M		132665	21	20.41	0	20.72	0	
			132322	21	20.40	0	20.53	0	
			131979	21	20.49	0	20.34	0	
	3L		132665	21	20.34	0	20.65	0	
			132322	21	20.40	0	20.73	0	
			131979	21	20.43	0	20.61	0	
	6		132665	21	20.23	0	20.55	0	
			132322	21	20.30	0	20.48	0	
			131979	21	20.33	0	20.61	0	
	3MHz	1H		132657	21	20.26	0	19.99	0
				132322	21	20.25	0	20.07	0
				131987	21	20.49	0	20.00	0
		1M		132657	21	20.56	0	20.38	0
				132322	21	20.82	0	20.40	0
				131987	21	20.50	0	20.04	0
1L			132657	21	20.48	0	20.12	0	
			132322	21	20.45	0	20.11	0	
			131987	21	20.48	0	20.04	0	
8H			132657	21	20.39	0	20.29	0	
			132322	21	20.41	0	20.45	0	
			131987	21	20.28	0	20.39	0	
8M			132657	21	20.36	0	20.27	0	
			132322	21	20.32	0	20.41	0	
			131987	21	20.25	0	20.46	0	
8L			132657	21	20.31	0	20.44	0	
			132322	21	20.24	0	20.16	0	
			131987	21	20.32	0	20.39	0	
15			132657	21	20.33	0	19.95	0	
			132322	21	20.44	0	20.09	0	
			131987	21	20.29	0	20.27	0	
5MHz		1H		132647	21	20.11	0	19.65	0
				132322	21	20.31	0	19.89	0
				131997	21	20.25	0	19.69	0
		1M		132647	21	20.63	0	20.32	0
				132322	21	20.66	0	20.40	0
				131997	21	20.58	0	20.20	0
	1L		132647	21	20.18	0	19.52	0	
			132322	21	20.24	0	19.52	0	
			131997	21	20.24	0	19.68	0	
	12H		132647	21	20.37	0	20.07	0	
			132322	21	20.36	0	20.11	0	
			131997	21	20.33	0	20.13	0	
	12M		132647	21	20.37	0	20.45	0	
			132322	21	20.39	0	20.37	0	
			131997	21	20.33	0	20.30	0	
	12L		132647	21	20.33	0	20.07	0	
			132322	21	20.36	0	20.35	0	
			131997	21	20.30	0	20.14	0	
	25		132647	21	20.30	0	20.49	0	
			132322	21	20.32	0	20.58	0	
			131997	21	20.36	0	20.42	0	



10MHz	1H	132622	21	20.17	0	20.24	0
		132322	21	20.28	0	20.13	0
		132022	21	20.48	0	20.41	0
	1M	132622	21	20.46	0	20.87	0
		132322	21	20.44	0	20.73	0
		132022	21	20.72	0	20.93	0
	1L	132622	21	20.24	0	20.57	0
		132322	21	20.26	0	20.18	0
		132022	21	20.37	0	20.27	0
	25H	132622	21	20.29	0	20.33	0
		132322	21	20.38	0	20.48	0
		132022	21	20.33	0	20.32	0
	25M	132622	21	20.32	0	20.37	0
		132322	21	20.34	0	20.37	0
		132022	21	20.35	0	20.36	0
	25L	132622	21	20.25	0	20.26	0
		132322	21	20.28	0	20.28	0
		132022	21	20.33	0	20.27	0
50	132622	21	20.34	0	20.25	0	
	132322	21	20.38	0	20.41	0	
	132022	21	20.29	0	20.28	0	
15MHz	1H	132597	21	20.13	0	20.13	0
		132322	21	20.24	0	20.17	0
		132047	21	20.03	0	20.37	0
	1M	132597	21	20.12	0	20.16	0
		132322	21	20.23	0	20.23	0
		132047	21	20.12	0	20.34	0
	1L	132597	21	20.19	0	20.04	0
		132322	21	20.13	0	20.06	0
		132047	21	20.21	0	20.36	0
	36H	132597	21	20.32	0	20.26	0
		132322	21	20.40	0	20.23	0
		132047	21	20.30	0	20.24	0
	36M	132597	21	20.28	0	20.58	0
		132322	21	20.31	0	20.38	0
		132047	21	20.32	0	20.41	0
	36L	132597	21	20.34	0	20.42	0
		132322	21	20.41	0	20.32	0
		132047	21	20.36	0	20.33	0
75	132597	21	20.27	0	20.34	0	
	132322	21	20.32	0	20.15	0	
	132047	21	20.34	0	20.22	0	
20MHz	1H	132572	21	20.32	0	<b>20.68</b>	0
		132322	21	20.22	0	<b>20.58</b>	0
		132072	21	20.30	0	<b>20.52</b>	0
	1M	132572	21	20.16	0	19.97	0
		132322	21	20.25	0	20.05	0
		132072	21	20.03	0	20.38	0
	1L	132572	21	19.63	0	19.54	0
		132322	21	19.69	0	19.83	0
		132072	21	19.47	0	19.54	0
	50H	132572	21	20.00	0	20.17	0
		132322	21	20.38	0	20.17	0
		132072	21	20.31	0	20.36	0
	50M	132572	21	20.16	0	20.28	0
		132322	21	20.27	0	20.23	0
		132072	21	20.32	0	20.41	0
	50L	132572	21	20.12	0	20.24	0
		132322	21	20.41	0	20.26	0
		132072	21	20.13	0	20.43	0
100	132572	21	20.03	0	20.02	0	
	132322	21	20.37	0	20.20	0	
	132072	21	20.26	0	20.25	0	



Table 11-13 LTE1700-FDD66 #2 Normal Power

LTE1700-FDD66 #2										
SN	BandWidth	RB No./Start	Channel	Tune-up	Measured Power (dBm) & MPR					
					QPSK		16QAM			
					Measured Power	MPR	Measured Power	MPR		
1.4MHz	1H		132665	23	22.13	0	20.98	1		
			132322	23	22.15	0	21.15	1		
			131979	23	21.88	0	20.75	1		
	1M			132665	23	22.21	0	20.93	1	
				132322	23	22.05	0	20.80	1	
				131979	23	21.94	0	20.69	1	
	1L			132665	23	22.25	0	20.94	1	
				132322	23	22.19	0	20.75	1	
				131979	23	21.98	0	20.80	1	
	3H			132665	23	21.99	0	21.24	1	
				132322	23	21.98	0	21.13	1	
				131979	23	21.94	0	20.65	1	
	3M			132665	23	22.01	0	21.19	1	
				132322	23	22.37	0	21.23	1	
				131979	23	22.45	0	20.73	1	
	3L			132665	23	22.18	0	21.16	1	
				132322	23	22.01	0	21.18	1	
				131979	23	21.88	0	20.98	1	
	6			132665	23	20.98	1	20.18	2	
				132322	23	21.04	1	19.87	2	
				131979	23	20.84	1	20.04	2	
	3MHz	1H		132657	23	21.88	0	20.42	1	
				132322	23	21.87	0	21.43	1	
				131987	23	21.86	0	20.85	1	
		1M			132657	23	22.05	0	21.02	1
					132322	23	21.95	0	21.70	1
					131987	23	21.75	0	21.42	1
1L				132657	23	21.90	0	20.62	1	
				132322	23	21.90	0	21.25	1	
				131987	23	21.51	0	21.14	1	
8H				132657	23	21.07	1	19.77	2	
				132322	23	21.06	1	20.45	2	
				131987	23	20.91	1	20.28	2	
8M				132657	23	21.18	1	19.95	2	
				132322	23	21.05	1	20.42	2	
				131987	23	20.89	1	20.07	2	
8L				132657	23	21.07	1	19.62	2	
				132322	23	21.04	1	20.40	2	
				131987	23	20.87	1	20.34	2	
15				132657	23	20.97	1	19.92	2	
				132322	23	20.79	1	19.99	2	
				131987	23	20.87	1	20.07	2	
5MHz		1H		132647	23	21.94	0	20.28	1	
				132322	23	22.15	0	20.55	1	
				131997	23	21.20	0	20.28	1	
		1M			132647	23	22.28	0	21.10	1
					132322	23	22.32	0	20.67	1
					131997	23	22.10	0	20.50	1
	1L			132647	23	21.82	0	20.61	1	
				132322	23	21.92	0	20.15	1	
				131997	23	21.69	0	20.03	1	
	12H			132647	23	20.93	1	19.69	2	
				132322	23	21.09	1	19.67	2	
				131997	23	20.82	1	19.59	2	
	12M			132647	23	21.05	1	19.55	2	
				132322	23	21.11	1	19.93	2	
				131997	23	20.87	1	19.88	2	
	12L			132647	23	21.00	1	19.93	2	
				132322	23	21.05	1	19.77	2	
				131997	23	20.80	1	19.63	2	
	25			132647	23	21.07	1	19.71	2	
				132322	23	21.02	1	20.00	2	
				131997	23	20.88	1	19.93	2	





10MHz	1H	132622	23	22.00	0	21.08	1
		132322	23	22.18	0	20.85	1
		132022	23	21.67	0	20.08	1
	1M	132622	23	22.29	0	21.48	1
		132322	23	22.45	0	21.51	1
		132022	23	22.22	0	21.25	1
	1L	132622	23	21.73	0	20.58	1
		132322	23	22.22	0	20.85	1
		132022	23	22.01	0	20.49	1
	25H	132622	23	20.91	1	19.79	2
		132322	23	20.96	1	19.86	2
		132022	23	21.01	1	19.79	2
	25M	132622	23	20.89	1	19.93	2
		132322	23	20.98	1	19.90	2
		132022	23	20.84	1	20.06	2
	25L	132622	23	20.84	1	20.09	2
		132322	23	21.04	1	19.97	2
		132022	23	20.89	1	19.96	2
50	132622	23	20.97	1	19.76	2	
	132322	23	21.02	1	19.94	2	
	132022	23	20.85	1	19.87	2	
15MHz	1H	132597	23	21.95	0	20.81	1
		132322	23	21.77	0	20.78	1
		132047	23	22.04	0	20.79	1
	1M	132597	23	22.30	0	21.64	1
		132322	23	22.48	0	21.41	1
		132047	23	22.16	0	21.48	1
	1L	132597	23	21.96	0	20.61	1
		132322	23	21.77	0	20.52	1
		132047	23	21.76	0	20.44	1
	36H	132597	23	20.82	1	19.78	2
		132322	23	21.05	1	19.92	2
		132047	23	21.06	1	19.88	2
	36M	132597	23	21.05	1	19.85	2
		132322	23	21.05	1	20.06	2
		132047	23	21.01	1	19.94	2
	36L	132597	23	21.12	1	19.74	2
		132322	23	21.04	1	19.62	2
		132047	23	20.79	1	19.78	2
75	132597	23	20.86	1	19.79	2	
	132322	23	20.98	1	19.90	2	
	132047	23	20.98	1	19.96	2	
20MHz	1H	132572	23	21.48	0	20.52	1
		132322	23	21.56	0	20.44	1
		132072	23	21.39	0	20.52	1
	1M	132572	23	21.95	0	20.71	1
		132322	23	21.97	0	21.28	1
		132072	23	22.04	0	21.22	1
	1L	132572	23	21.39	0	20.67	1
		132322	23	21.40	0	20.69	1
		132072	23	21.55	0	20.05	1
	50H	132572	23	20.85	1	19.71	2
		132322	23	20.99	1	20.02	2
		132072	23	21.15	1	20.10	2
	50M	132572	23	20.90	1	19.86	2
		132322	23	20.93	1	19.88	2
		132072	23	20.84	1	20.13	2
	50L	132572	23	20.83	1	19.57	2
		132322	23	20.96	1	20.06	2
		132072	23	20.83	1	19.87	2
100	132572	23	20.79	1	19.74	2	
	132322	23	20.98	1	19.84	2	
	132072	23	20.94	1	19.96	2	

#### 11.4 Wi-Fi and BT Measurement result

The output power of BT antenna is as following:

**Table 11-14 Bluetooth Power**

Bluetooth Power				
Mode	Channel	Frequency	Tune-up	Measured
GFSK	78	2480 MHz	6	5.02
	39	2441 MHz	6	5.65
	0	2402 MHz	4	3.6
EDR2M-4_DQPSK	78	2480 MHz	6	4.02
	39	2441 MHz	6	4.68
	0	2402 MHz	4	2.12
EDR3M-8DPSK	78	2480 MHz	5	3.66
	39	2441 MHz	5	4.3
	0	2402 MHz	4	2.21



The average conducted power for Wi-Fi is as following:

**Table 11-15 WLAN2450 #1 Low Power**

WLAN2450 #1						
Band	Mode	Channel	Frequency	Data Rate	Tune-up	Measured
WLAN 2.4G 20M	802.11b	11	2462 MHz	1Mbps	17.00	16.76
		6	2437 MHz		17.00	16.92
		1	2412 MHz		17.00	15.97
		11	2462 MHz	2Mbps	/	/
		6	2437 MHz		17.00	16.58
		1	2412 MHz		/	/
		11	2462 MHz	5.5Mbps	/	/
		6	2437 MHz		17.00	16.41
		1	2412 MHz		/	/
		11	2462 MHz	11Mbps	/	/
		6	2437 MHz		17.00	16.23
		1	2412 MHz		/	/
	802.11g	6Mbps	11	2462 MHz	16.50	16.06
			6	2437 MHz	16.50	16.39
			1	2412 MHz	16.50	15.31
		9Mbps	11	2462 MHz	/	/
			6	2437 MHz	16.50	16.25
			1	2412 MHz	/	/
		12Mbps	11	2462 MHz	/	/
			6	2437 MHz	16.50	16.03
			1	2412 MHz	/	/
		18Mbps	11	2462 MHz	/	/
			6	2437 MHz	16.50	15.69
			1	2412 MHz	/	/
		24Mbps	11	2462 MHz	/	/
			6	2437 MHz	16.50	15.33
			1	2412 MHz	/	/
		36Mbps	11	2462 MHz	/	/
			6	2437 MHz	14.00	13.82
			1	2412 MHz	/	/
		48Mbps	11	2462 MHz	/	/
			6	2437 MHz	14.00	13.32
			1	2412 MHz	/	/
		54Mbps	11	2462 MHz	/	/
			6	2437 MHz	14.00	13.14
			1	2412 MHz	/	/
	802.11n 20M	MCS0	11	2462 MHz	15.50	15.09
			6	2437 MHz	15.50	15.32
			1	2412 MHz	15.50	14.56
		MCS1	11	2462 MHz	/	/
			6	2437 MHz	15.50	14.74
			1	2412 MHz	/	/
		MCS2	11	2462 MHz	/	/
			6	2437 MHz	15.50	14.46
			1	2412 MHz	/	/
MCS3		11	2462 MHz	/	/	
		6	2437 MHz	15.50	14.11	
		1	2412 MHz	/	/	
MCS4		11	2462 MHz	/	/	
		6	2437 MHz	14.00	13.14	
		1	2412 MHz	/	/	
MCS5		11	2462 MHz	/	/	
		6	2437 MHz	14.00	12.67	
		1	2412 MHz	/	/	
MCS6		11	2462 MHz	/	/	
		6	2437 MHz	14.00	12.49	
		1	2412 MHz	/	/	
MCS7	11	2462 MHz	/	/		
	6	2437 MHz	14.00	12.30		
	1	2412 MHz	/	/		



Table 11-16 WLAN2450 #2 Normal Power

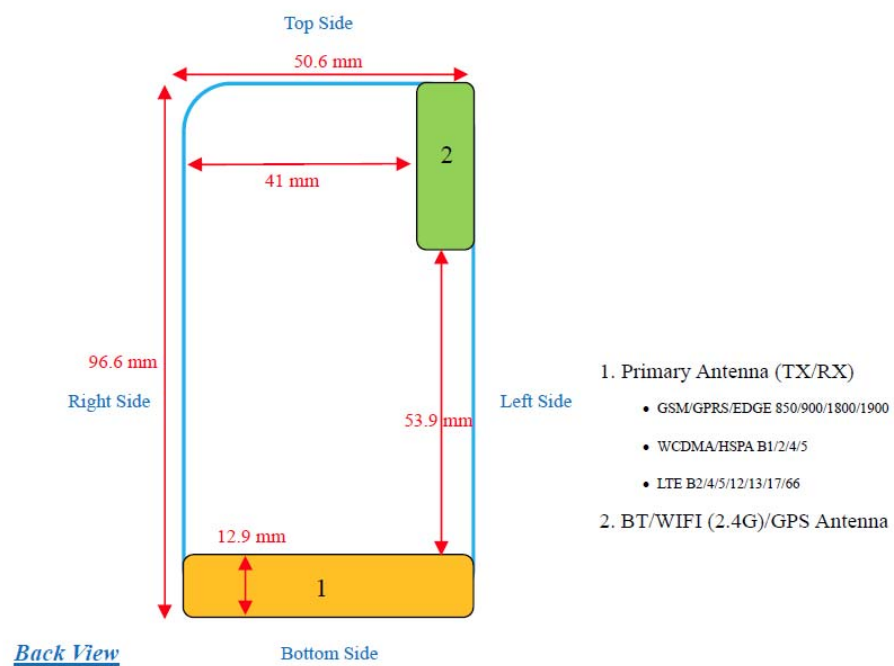
WLAN2450 #2						
Band	Mode	Channel	Frequency	Data Rate	Tune-up	Measured
WLAN 2.4G 20M	802.11b	11	2462 MHz	1Mbps	20.50	19.99
		6	2437 MHz		20.50	20.38
		1	2412 MHz		20.50	19.32
		11	2462 MHz	2Mbps	/	/
		6	2437 MHz		20.50	20.17
		1	2412 MHz		/	/
		11	2462 MHz	5.5Mbps	/	/
		6	2437 MHz		20.50	20.28
		1	2412 MHz		/	/
		11	2462 MHz	11Mbps	/	/
		6	2437 MHz		20.50	19.84
		1	2412 MHz		/	/
	802.11g	6Mbps	11	2462 MHz	18.00	17.38
			6	2437 MHz	18.00	17.77
			1	2412 MHz	18.00	16.84
		9Mbps	11	2462 MHz	/	/
			6	2437 MHz	18.00	17.67
			1	2412 MHz	/	/
		12Mbps	11	2462 MHz	/	/
			6	2437 MHz	18.00	17.44
			1	2412 MHz	/	/
		18Mbps	11	2462 MHz	/	/
			6	2437 MHz	18.00	17.11
			1	2412 MHz	/	/
		24Mbps	11	2462 MHz	/	/
			6	2437 MHz	18.00	16.76
			1	2412 MHz	/	/
		36Mbps	11	2462 MHz	/	/
			6	2437 MHz	15.00	14.65
			1	2412 MHz	/	/
		48Mbps	11	2462 MHz	/	/
			6	2437 MHz	15.00	14.15
			1	2412 MHz	/	/
		54Mbps	11	2462 MHz	/	/
			6	2437 MHz	15.00	13.94
			1	2412 MHz	/	/
	802.11n 20M	MCS0	11	2462 MHz	16.00	15.09
			6	2437 MHz	16.00	15.52
			1	2412 MHz	16.00	14.56
		MCS1	11	2462 MHz	/	/
			6	2437 MHz	16.00	14.74
			1	2412 MHz	/	/
MCS2		11	2462 MHz	/	/	
		6	2437 MHz	16.00	14.46	
		1	2412 MHz	/	/	
MCS3		11	2462 MHz	/	/	
		6	2437 MHz	16.00	14.11	
		1	2412 MHz	/	/	
MCS4		11	2462 MHz	/	/	
		6	2437 MHz	14.00	13.14	
		1	2412 MHz	/	/	
MCS5		11	2462 MHz	/	/	
		6	2437 MHz	14.00	12.67	
		1	2412 MHz	/	/	
MCS6		11	2462 MHz	/	/	
		6	2437 MHz	14.00	12.49	
		1	2412 MHz	/	/	
MCS7	11	2462 MHz	/	/		
	6	2437 MHz	14.00	12.30		
	1	2412 MHz	/	/		

## 12 Simultaneous TX SAR Considerations

### 12.1 Introduction

The following procedures adopted from “FCC SAR Considerations for Cell Phones with Multiple Transmitters” are applicable to handsets with built-in unlicensed transmitters such as 802.11 a/b/g and Bluetooth devices which may simultaneously transmit with the licensed transmitter. For this device, the BT and Wi-Fi can transmit simultaneous with other transmitters.

### 12.2 Transmit Antenna Separation Distances



Picture 12.1 Antenna Locations

### 12.3 SAR Measurement Positions

SAR measurement positions						
Mode	Front	Rear	Left edge	Right edge	Top edge	Bottom edge
Main antenna	Yes	Yes	No	No	No	No
WLAN	Yes	Yes	No	No	No	No

**Note:** This product doesn't support Hotspot.

### 12.4 Standalone SAR Test Exclusion Considerations

Standalone 1-g head or body SAR evaluation by measurement or numerical simulation is not required when the corresponding SAR Exclusion Threshold condition, listed below, is satisfied. The 1-g SAR test exclusion threshold for 100 MHz to 6 GHz at test separation distances  $\leq 50$  mm are determined by:

$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}] \leq 3.0$  for 1-g SAR, where

- $f(\text{GHz})$  is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation
- The result is rounded to one decimal place for comparison

**Table 12.1: Standalone SAR test exclusion considerations**

Band/Mode	F(GHz)	Position	SAR test exclusion threshold (mW)	RF output power		SAR test exclusion
				dBm	mW	
Bluetooth	2.441	Head	9.6	6	3.98	Yes
		Body	19.2	6	3.98	Yes
2.4GHz WLAN 802.11 b	2.45	Head	9.58	17	50.12	No
		Body	19.17	17	50.12	No

### 13 Evaluation of Simultaneous

**Table 13.1: The sum of reported SAR values for main antenna and WiFi**

	Position	Main antenna	WiFi	Sum
<b>Highest reported SAR value for Head</b>	Right hand, Touch cheek GSM850	0.78	0.78	<b>1.56</b>
<b>Highest reported SAR value for Body</b>	Rear LTE Band2	1.02	0.27	<b>1.29</b>

**Table 13.2: The sum of reported SAR values for main antenna and BT**

	Position	Main antenna	BT	Sum
<b>Maximum reported SAR value for Head</b>	Left hand, Touch cheek LTE Band2 Normal Power	1.26	0.17	<b>1.43</b>
<b>Maximum reported SAR value for Body</b>	Rear LTE Band2	1.02	0.08	<b>1.10</b>

[1] - Estimated SAR for Bluetooth (see the table 13.3)

**Table 13.3: Estimated SAR for Bluetooth**

Mode/Band	F (GHz)	Position	Distance (mm)	Upper limit of power *		Estimated <sub>1g</sub> (W/kg)
				dBm	mW	
Bluetooth	2.441	Head	5	6	3.98	0.17
Bluetooth	2.441	Body	10	6	3.98	0.08

\* - Maximum possible output power declared by manufacturer

When standalone SAR test exclusion applies to an antenna that transmits simultaneously with other antennas, the standalone SAR must be estimated according to following to determine simultaneous transmission SAR test exclusion:

(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm) · [ $\sqrt{f(\text{GHz})/x}$ ] W/kg for test separation distances  $\leq 50$  mm;

where  $x = 7.5$  for 1-g SAR.

When the minimum test separation distance is  $< 5$  mm, a distance of 5 mm is applied to determine SAR test exclusion

#### Conclusion:

According to the above tables, the sum of reported SAR values is  $< 1.6$  W/kg. So the simultaneous transmission SAR with volume scans is not required.

## 14 SAR Test Result

It is determined by user manual for the distance between the EUT and the phantom bottom.

The distance is 10mm and just applied to the condition of body worn accessory.

It is performed for all SAR measurements with area scan based 1-g SAR estimation (Fast SAR). A zoom scan measurement is added when the estimated 1-g SAR is the highest measured SAR in each exposure configuration, wireless mode and frequency band combination or more than 1.2W/kg.

The calculated SAR is obtained by the following formula:

$$\text{Reported SAR} = \text{Measured SAR} \times 10^{(P_{\text{Target}} - P_{\text{Measured}})/10}$$

Where  $P_{\text{Target}}$  is the power of manufacturing upper limit;

$P_{\text{Measured}}$  is the measured power in chapter 11.

Mode	Duty Cycle
Speech&GPRS&EGPRS for GSM850	1:2.67
Speech&GPRS&EGPRS for GSM1900	1:4
WCDMA&LTE	1:1



### 14.1 SAR results

**Table 14-1 GSM850 #1 Head**

GSM850 #1 Head								
Ambient Temperature: 22.5				Liquid Temperature: 22.3				
Mode	Device orientation	SAR measurement	Measured SAR [W/kg]			Reported SAR [W/kg]		
			CH251 848.8 MHz	CH190 836.6 MHz	CH128 824.2 MHz	CH251 848.8 MHz	CH190 836.6 MHz	CH128 824.2 MHz
GPRS 3 Txslots	Tune-up		29.00	29.00	29.00	Scaling factor*		
	Slot Average Power [dBm]		28.54	28.58	28.67	1.11	1.10	1.08
	Left Cheek	1g SAR		0.625			0.69	
		10g SAR		0.423			0.47	
		Deviation		0.09			0.09	
	Left Tilt	1g SAR		0.336			0.37	
		10g SAR		0.177			0.20	
		Deviation		0.06			0.06	
	Right Cheek	1g SAR	0.517	0.631	0.721	0.57	0.70	0.78
		10g SAR	0.354	0.433	0.506	0.39	0.48	0.55
		Deviation	0.12	-0.09	-0.13	0.12	-0.09	-0.13
	Right Tilt	1g SAR		0.33			0.36	
		10g SAR		0.197			0.22	
		Deviation		0.06			0.06	
	Tune-up		29.00	29.00	29.00	Scaling factor*		
Slot Average Power [dBm]		28.58	28.64	28.73	1.10	1.09	1.06	
EGPRS GMSK 3 Txslots	Right Cheek	1g SAR			0.711		0.76	
		10g SAR			0.492		0.52	
		Deviation			0.02		0.02	

Note: the head SAR of GSM850 is tested with GPRS (3Txslots) mode because of VoIP.

**Table 14-2 GSM850 #1 Body**

GSM850 #1 Body								
Ambient Temperature: 22.5				Liquid Temperature: 22.3				
Mode	Device orientation	SAR measurement	Measured SAR [W/kg]			Reported SAR [W/kg]		
			CH251 848.8 MHz	CH190 836.6 MHz	CH128 824.2 MHz	CH251 848.8 MHz	CH190 836.6 MHz	CH128 824.2 MHz
GPRS 3 Txslots	Tune-up		29.00	29.00	29.00	Scaling factor*		
	Slot Average Power [dBm]		28.54	28.58	28.67	1.11	1.10	1.08
	Front	1g SAR		0.242			0.27	
		10g SAR		0.17			0.19	
		Deviation		0.06			0.06	
	Rear	1g SAR	0.343	0.302	0.491	0.38	0.33	0.53
		10g SAR	0.243	0.198	0.329	0.27	0.22	0.35
		Deviation	-0.01	0.04	-0.1	-0.01	0.04	-0.10
	Tune-up		29.00	29.00	29.00	Scaling factor*		
	Slot Average Power [dBm]		28.58	28.64	28.73	1.10	1.09	1.06
EGPRS GMSK 3 Txslots	Rear	1g SAR			0.489		0.52	
		10g SAR			0.327		0.35	
		Deviation			0.01		0.01	

**Table 14-3 PCS1900 #1 Head**

PCS1900 #1 Head									
Ambient Temperature:			22.5			Liquid Temperature:			22.3
Mode	Device orientation	SAR measurement	Measured SAR [W/kg]			Reported SAR [W/kg]			
			CH810 1909.8	CH661 1880 MHz	CH512 1850.2	CH810 1909.8	CH661 1880 MHz	CH512 1850.2	
GPRS 2 Txslots	Tune-up		28.50	28.50	28.50	Scaling factor*			
	Slot Average Power [dBm]		27.80	28.13	28.22	1.17	1.09	1.07	
	Left Cheek	1g SAR	0.466	0.504	0.443	0.55	0.55	0.47	
		10g SAR	0.247	0.268	0.226	0.29	0.29	0.24	
		Deviation	0.06	-0.07	0.02	0.06	-0.07	0.02	
	Left Tilt	1g SAR		0.139			0.15		
		10g SAR		0.078			0.08		
		Deviation		-0.04			-0.04		
	Right Cheek	1g SAR		0.42			0.46		
		10g SAR		0.228			0.25		
		Deviation		-0.01			-0.01		
	Right Tilt	1g SAR		0.17			0.19		
		10g SAR		0.091			0.10		
		Deviation		0.05			0.05		
Tune-up		28.50	28.50	28.50	Scaling factor*				
Slot Average Power [dBm]		27.78	28.11	28.28	1.18	1.09	1.05		
EGPRS GMSK 2 Txslots	Left Cheek	1g SAR		0.499			0.54		
		10g SAR		0.259			0.28		
		Deviation		0.02			0.02		

Note: the head SAR of GSM1900 is tested with GPRS (2Txslots) mode because of VoIP.

**Table 14-4 PCS1900 #1 Body**

PCS1900 #1 Body									
Ambient Temperature:			22.5			Liquid Temperature:			22.3
Mode	Device orientation	SAR measurement	Measured SAR [W/kg]			Reported SAR [W/kg]			
			CH810 1909.8	CH661 1880 MHz	CH512 1850.2	CH810 1909.8	CH661 1880 MHz	CH512 1850.2	
GPRS 2 Txslots	Tune-up		28.50	28.50	28.50	Scaling factor*			
	Slot Average Power [dBm]		27.80	28.13	28.22	1.17	1.09	1.07	
	Front	1g SAR		0.226			0.25		
		10g SAR		0.172			0.19		
		Deviation		0.08			0.08		
	Rear	1g SAR	0.356	0.388	0.311	0.42	0.42	0.33	
		10g SAR	0.238	0.242	0.208	0.28	0.26	0.22	
		Deviation	0.13	-0.14	0.09	0.13	-0.14	0.09	
	Tune-up		28.50	28.50	28.50	Scaling factor*			
	Slot Average Power [dBm]		27.78	28.11	28.28	1.18	1.09	1.05	
EGPRS GMSK 2 Txslots	Rear	1g SAR		0.385			0.42		
		10g SAR		0.239			0.26		
		Deviation		0.05			0.05		

**Table 14-5 WCDMA1900-BII #1Head**

WCDMA1900-BII #1Head								
Ambient Temperature: 22.5			Liquid Temperature: 22.3					
Mode	Device orientation	SAR measurement	Measured SAR [W/kg]			Reported SAR [W/kg]		
			CH9538 1907.6 MHz	CH9400 1880 MHz	CH9262 1852.4 MHz	CH9538 1907.6 MHz	CH9400 1880 MHz	CH9262 1852.4 MHz
RMC	Tune-up		22.30	22.30	22.30	Scaling factor*		
	Slot Average Power [dBm]		20.74	20.69	20.82	1.43	1.45	1.41
	Left Cheek	1g SAR	0.585	0.59	0.517	0.84	0.85	0.73
		10g SAR	0.327	0.332	0.296	0.47	0.48	0.42
		Deviation	0.05	0.09	-0.02	0.05	0.09	-0.02
	Left Tilt	1g SAR		0.142			0.21	
		10g SAR		0.076			0.11	
		Deviation		-0.08			-0.08	
	Right Cheek	1g SAR		0.517			0.75	
		10g SAR		0.296			0.43	
		Deviation		0.01			0.01	
	Right Tilt	1g SAR		0.123			0.18	
		10g SAR		0.073			0.11	
		Deviation		0.05			0.05	

**Table 14-6 WCDMA1900-BII #1Body**

WCDMA1900-BII #1Body								
Ambient Temperature: 22.5			Liquid Temperature: 22.3					
Mode	Device orientation	SAR measurement	Measured SAR [W/kg]			Reported SAR [W/kg]		
			CH9538 1907.6 MHz	CH9400 1880 MHz	CH9262 1852.4 MHz	CH9538 1907.6 MHz	CH9400 1880 MHz	CH9262 1852.4 MHz
RMC	Tune-up		22.30	22.30	22.30	Scaling factor*		
	Slot Average Power [dBm]		20.74	20.69	20.82	1.43	1.45	1.41
	Front	1g SAR		0.5			0.72	
		10g SAR		0.32			0.46	
		Deviation		0.02			0.02	
	Rear	1g SAR	0.61	0.662	0.58	0.87	0.96	0.82
		10g SAR	0.37	0.405	0.35	0.53	0.59	0.49
		Deviation	0.04	-0.05	0.17	0.04	-0.05	0.17

**Table 14-7 WCDMA1700-BIV #1Head**

WCDMA1700-BIV #1Head									
Ambient Temperature: 22.5			Liquid Temperature: 22.3						
Mode	Device orientation	SAR measurement	Measured SAR [W/kg]			Reported SAR [W/kg]			
			CH1513 1752.6 MHz	CH1412 1732.4 MHz	CH1312 1712.4 MHz	CH1513 1752.6 MHz	CH1412 1732.4 MHz	CH1312 1712.4 MHz	
RMC	Tune-up		23.00	23.00	23.00	Scaling factor*			
	Slot Average Power [dBm]		22.48	22.58	22.67	1.13	1.10	1.08	
	Left Cheek	1g SAR		0.541	0.518	0.521	0.61	0.57	0.56
		10g SAR		0.298	0.291	0.303	0.34	0.32	0.33
		Deviation		0.08	-0.07	0.1	0.08	-0.07	0.10
	Left Tilt	1g SAR			0.149			0.16	
		10g SAR			0.089			0.10	
		Deviation			0.04			0.04	
	Right Cheek	1g SAR			0.507			0.56	
		10g SAR			0.279			0.31	
		Deviation			-0.07			-0.07	
	Right Tilt	1g SAR			0.144			0.16	
		10g SAR			0.084			0.09	
		Deviation			-0.01			-0.01	

**Table 14-8 WCDMA1700-BIV #1Body**

WCDMA1700-BIV #1Body									
Ambient Temperature:			22.5			Liquid Temperature:			22.3
Mode	Device orientation	SAR measurement	Measured SAR [W/kg]			Reported SAR [W/kg]			
			CH1513 1752.6 MHz	CH1412 1732.4 MHz	CH1312 1712.4 MHz	CH1513 1752.6 MHz	CH1412 1732.4 MHz	CH1312 1712.4 MHz	
RMC	Tune-up		23.00	23.00	23.00	Scaling factor*			
	Slot Average Power [dBm]		22.48	22.58	22.67	1.13	1.10	1.08	
	Front	1g SAR	0.465	0.515	0.536	0.52	0.57	0.58	
		10g SAR	0.292	0.322	0.334	0.33	0.35	0.36	
		Deviation	0.06	-0.03	-0.05	0.06	-0.03	-0.05	
	Rear	1g SAR		0.495			0.55		
		10g SAR		0.317			0.35		
		Deviation		0.01			0.01		

**Table 14-9 WCDMA850-BV #1Head**

WCDMA850-BV #1Head									
Ambient Temperature:			22.5			Liquid Temperature:			22.3
Mode	Device orientation	SAR measurement	Measured SAR [W/kg]			Reported SAR [W/kg]			
			CH4233 846.6 MHz	CH4182 835.4 MHz	CH4132 826.4 MHz	CH4233 846.6 MHz	CH4182 835.4 MHz	CH4132 826.4 MHz	
RMC	Tune-up		23.00	23.00	23.00	Scaling factor*			
	Slot Average Power [dBm]		22.48	22.58	22.67	1.13	1.10	1.08	
	Left Cheek	1g SAR	0.378	0.414	0.467	0.43	0.46	0.50	
		10g SAR	0.257	0.28	0.311	0.29	0.31	0.34	
		Deviation	0.08	0.04	0.02	0.08	0.04	0.02	
	Left Tilt	1g SAR		0.182			0.20		
		10g SAR		0.094			0.10		
		Deviation		0.09			0.09		
	Right Cheek	1g SAR		0.408			0.45		
		10g SAR		0.277			0.31		
		Deviation		0.07			0.07		
	Right Tilt	1g SAR		0.128			0.14		
		10g SAR		0.094			0.10		
		Deviation		0.14			0.14		

**Table 14-10 WCDMA850-BV #1Body**

WCDMA850-BV #1Body									
Ambient Temperature:			22.5			Liquid Temperature:			22.3
Mode	Device orientation	SAR measurement	Measured SAR [W/kg]			Reported SAR [W/kg]			
			CH4233 846.6 MHz	CH4182 835.4 MHz	CH4132 826.4 MHz	CH4233 846.6 MHz	CH4182 835.4 MHz	CH4132 826.4 MHz	
RMC	Tune-up		23.00	23.00	23.00	Scaling factor*			
	Slot Average Power [dBm]		22.48	22.58	22.67	1.13	1.10	1.08	
	Front	1g SAR		0.22			0.24		
		10g SAR		0.156			0.17		
		Deviation		0.06			0.06		
	Rear	1g SAR	0.248	0.258	0.324	0.28	0.28	0.35	
		10g SAR	0.162	0.173	0.217	0.18	0.19	0.23	
		Deviation	-0.02	0.05	-0.04	-0.02	0.05	-0.04	



**Table 14-11 LTE1900-FDD2 #1 Head Low Power**

LTE1900-FDD2 #1 Head								
Ambient Temperature: 22.5			Liquid Temperature: 22.3					
Mode	Device orientation	SAR measurement	Measured SAR [W/kg]			Reported SAR [W/kg]		
			19100	18900	18700	19100	18900	18700
			M	M	M	M	M	M
20MHz QPSK1RB	Tune-up		21.00	21.00	21.00	Scaling factor*		
	Measured Power [dBm]		20.65	20.25	20.52	1.08	1.19	1.12
	Left Cheek	1g SAR	0.701			0.76		
		10g SAR	0.373			0.40		
		Deviation	-0.05			-0.05		
	Left Tilt	1g SAR	0.132			0.14		
		10g SAR	0.076			0.08		
		Deviation	0.06			0.06		
	Right Cheek	1g SAR	0.676			0.73		
		10g SAR	0.363			0.39		
		Deviation	-0.01			-0.01		
	Right Tilt	1g SAR	0.128			0.14		
		10g SAR	0.073			0.08		
		Deviation	0.02			0.02		
FALSE	Device orientation	SAR measurement	Measured SAR [W/kg]			Reported SAR [W/kg]		
			19100	18900	18700	19100	18900	18700
			L	L	H	L	L	H
20MHz QPSK50% RB	Tune-up		21.00	21.00	21.00	Scaling factor*		
	Measured Power [dBm]		20.34	20.35	20.55	1.16	1.16	1.11
	Left Cheek	1g SAR			0.715			0.79
		10g SAR			0.386			0.43
		Deviation			0.05			0.05
	Left Tilt	1g SAR			0.147			0.16
		10g SAR			0.085			0.09
		Deviation			-0.01			-0.01
	Right Cheek	1g SAR			0.658			0.73
		10g SAR			0.36			0.40
		Deviation			0.03			0.03
	Right Tilt	1g SAR			0.163			0.18
		10g SAR			0.092			0.10
		Deviation			0.06			0.06



Table 14-12 LTE1900-FDD2 #2 Head Normal Power

LTE1900-FDD2 #2 Head								
Ambient Temperature: 22.5				Liquid Temperature: 22.3				
Mode	Device orientation	SAR measurement	Measured SAR [W/kg]			Reported SAR [W/kg]		
			19100	18900	18700	19100	18900	18700
			M	M	M	M	M	M
20MHz QPSK1RB	Tune-up		23.00	23.00	23.00	Scaling factor*		
	Measured Power [dBm]		21.69	21.57	21.59	1.35	1.39	1.38
	Left Cheek	1g SAR	0.852	0.858	0.913	1.15	1.19	1.26
		10g SAR	0.477	0.518	0.483	0.64	0.72	0.67
		Deviation	-0.05	0.09	0.04	-0.05	0.09	0.04
	Left Tilt	1g SAR	0.206			0.28		
		10g SAR	0.127			0.17		
		Deviation	0.06			0.06		
	Right Cheek	1g SAR	0.7	0.656	0.646	0.95	0.91	0.89
		10g SAR	0.42	0.392	0.385	0.57	0.54	0.53
		Deviation	-0.01	0.01	0.03	-0.01	0.01	0.03
	Right Tilt	1g SAR	0.177			0.24		
		10g SAR	0.105			0.14		
		Deviation	0.02			0.02		
FALSE	Device orientation	SAR measurement	Measured SAR [W/kg]			Reported SAR [W/kg]		
			19100	18900	18700	19100	18900	18700
			L	L	M	L	L	M
20MHz QPSK50% RB	Tune-up		22.00	22.00	22.00	Scaling factor*		
	Measured Power [dBm]		20.11	20.25	20.46	1.55	1.50	1.42
	Left Cheek	1g SAR	0.581	0.596	0.607	0.90	0.89	0.86
		10g SAR	0.332	0.321	0.345	0.51	0.48	0.49
		Deviation	0.05	0.01	-0.09	0.05	0.01	-0.09
	Left Tilt	1g SAR			0.143			0.20
		10g SAR			0.086			0.12
		Deviation			-0.01			-0.01
	Right Cheek	1g SAR	0.575	0.589	0.605	0.89	0.88	0.86
		10g SAR	0.313	0.365	0.338	0.48	0.55	0.48
		Deviation	0.03	0.02	0.03	0.03	0.02	0.03
	Right Tilt	1g SAR			0.125			0.18
		10g SAR			0.074			0.11
		Deviation			0.06			0.06
Mode	Device orientation	SAR measurement	Measured SAR [W/kg]			Reported SAR [W/kg]		
			19100	18900	18700	19100	18900	18700
20MHz QPSK100% RB	Tune-up		22.00	22.00	22.00	Scaling factor*		
	Measured Power [dBm]		20.02	20.15	20.37	1.58	1.53	1.45
	Left Cheek	1g SAR			0.755			1.10
		10g SAR			0.42			0.61
Deviation				0.06			0.06	
20MHz QPSK100% RB	Right Cheek	1g SAR			0.552			0.80
		10g SAR			0.361			0.53
		Deviation			0.05			0.05



Table 14-13 LTE1900-FDD2 #2 Body

LTE1900-FDD2 #2 Body								
Ambient Temperature: 22.5				Liquid Temperature: 22.3				
Mode	Device orientation	SAR measurement	Measured SAR [W/kg]			Reported SAR [W/kg]		
			19100	18900	18700	19100	18900	18700
			M	M	M	M	M	M
20MHz QPSK1RB	Tune-up		23.00	23.00	23.00	Scaling factor*		
	Measured Power [dBm]		21.69	21.57	21.59	1.35	1.39	1.38
	Front	1g SAR	0.48			0.65		
		10g SAR	0.3			0.41		
		Deviation	0.01			0.01		
	Rear	1g SAR	0.752	0.69	0.62	1.02	0.96	0.86
		10g SAR	0.443	0.41	0.37	0.60	0.57	0.51
Deviation		-0.12	0.01	0.05	-0.12	0.01	0.05	
Mode	Device orientation	SAR measurement	Measured SAR [W/kg]			Reported SAR [W/kg]		
			19100	18900	18700	19100	18900	18700
			L	L	M			
20MHz QPSK50% RB	Tune-up		22.00	22.00	22.00	Scaling factor*		
	Measured Power [dBm]		20.11	20.25	20.46	1.55	1.50	1.42
	Front	1g SAR			0.443			0.63
		10g SAR			0.288			0.41
		Deviation			0.07			0.07
	Rear	1g SAR	0.572	0.581	0.597	0.88	0.87	0.85
		10g SAR	0.346	0.351	0.372	0.53	0.52	0.53
Deviation		0.04	0.05	0.03	0.04	0.05	0.03	
Mode	Device orientation	SAR measurement	Measured SAR [W/kg]			Reported SAR [W/kg]		
			19100	18900	18700	19100	18900	18700
20MHz QPSK100% RB	Tune-up		22.00	22.00	22.00	Scaling factor*		
	Measured Power [dBm]		20.02	20.15	20.37	1.58	1.53	1.45
	Rear	1g SAR			0.592			0.86
		10g SAR			0.352			0.51
Deviation				0.06			0.06	



Table 14-14 LTE850-FDD5 #1 Head

LTE850-FDD5 #1 Head								
Ambient Temperature: 22.5				Liquid Temperature: 22.3				
Mode	Device orientation	SAR measurement	Measured SAR [W/kg]			Reported SAR [W/kg]		
			20600	20525	20450	20600	20525	20450
			M	M	H	M	M	H
10MHz QPSK1RB	Tune-up		24.30	24.30	24.30	Scaling factor*		
	Measured Power [dBm]		23.59	23.28	23.07	1.18	1.26	1.33
	Left Cheek	1g SAR	0.505			0.59		
		10g SAR	0.336			0.40		
		Deviation	0			0.00		
	Left Tilt	1g SAR	0.144			0.17		
		10g SAR	0.104			0.12		
		Deviation	0.03			0.03		
	Right Cheek	1g SAR	0.473			0.56		
		10g SAR	0.318			0.37		
		Deviation	0.08			0.08		
	Right Tilt	1g SAR	0.116			0.14		
		10g SAR	0.083			0.10		
		Deviation	0.03			0.03		
TRUE	Device orientation	SAR measurement	Measured SAR [W/kg]			Reported SAR [W/kg]		
			20600	20525	20450	20600	20525	20450
			M	H	H	M	H	H
10MHz QPSK50% RB	Tune-up		23.30	23.30	23.30	Scaling factor*		
	Measured Power [dBm]		22.12	22.15	22.11	1.31	1.30	1.32
	Left Cheek	1g SAR		0.401			0.52	
		10g SAR		0.269			0.35	
		Deviation		0.12			0.12	
	Left Tilt	1g SAR		0.153			0.20	
		10g SAR		0.085			0.11	
		Deviation		0.1			0.10	
	Right Cheek	1g SAR		0.381			0.50	
		10g SAR		0.257			0.33	
		Deviation		0.04			0.04	
	Right Tilt	1g SAR		0.132			0.17	
		10g SAR		0.075			0.10	
		Deviation		0.02			0.02	



**Table 14-15 LTE850-FDD5 #1 Body**

LTE850-FDD5 #1 Body								
Ambient Temperature: 22.5				Liquid Temperature: 22.3				
Mode	Device orientation	SAR measurement	Measured SAR [W/kg]			Reported SAR [W/kg]		
			20600	20525	20450	20600	20525	20450
			M	M	H	M	M	H
10MHz QPSK1RB	Tune-up		24.30	24.30	24.30	Scaling factor*		
	Measured Power [dBm]		23.59	23.28	23.07	1.18	1.26	1.33
	Front	1g SAR	0.292			0.34		
		10g SAR	0.2			0.24		
		Deviation	0.02			0.02		
	Rear	1g SAR	0.354			0.42		
		10g SAR	0.233			0.27		
Deviation		-0.03			-0.03			
Mode	Device orientation	SAR measurement	Measured SAR [W/kg]			Reported SAR [W/kg]		
			20600	20525	20450	20600	20525	20450
			M	H	H			
10MHz QPSK50% RB	Tune-up		23.30	23.30	23.30	Scaling factor*		
	Measured Power [dBm]		22.12	22.15	22.11	1.31	1.30	1.32
	Front	1g SAR		0.24			0.31	
		10g SAR		0.164			0.21	
		Deviation		0.06			0.06	
	Rear	1g SAR		0.28			0.36	
		10g SAR		0.185			0.24	
Deviation			-0.02			-0.02		