

LTE Band 5							
BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)
		Channel		20450	20525	20600	
		Frequency (MHz)		829	836.5	844	
10M	QPSK	1	0	18.32	18.39	18.37	0
		1	24	18.37	18.44	18.42	0
		1	49	18.28	18.35	18.33	0
		25	0	18.35	18.42	18.40	1
		25	12	18.32	18.39	18.37	1
		25	25	18.34	18.41	18.39	1
		50	0	18.32	18.39	18.37	1
	16QAM	1	0	18.30	18.37	18.35	1
		1	24	18.34	18.41	18.39	1
		1	49	18.26	18.33	18.31	1
		25	0	18.32	18.39	18.37	2
		25	12	18.28	18.35	18.33	2
		25	25	18.30	18.37	18.35	2
		50	0	18.34	18.41	18.39	2
	64QAM	1	0	18.29	18.36	18.34	2
		1	24	18.32	18.39	18.37	2
		1	49	18.27	18.34	18.32	2
		25	0	18.30	18.37	18.35	3
		25	12	18.26	18.33	18.31	3
		25	25	18.28	18.35	18.33	3
		50	0	18.31	18.38	18.36	3
BW	MCS Index	Channel		20425	20525	20625	3GPP MPR
		Frequency (MHz)		826.5	836.5	846.5	
5M	QPSK	1	0	18.27	18.32	18.32	0
		1	12	18.35	18.36	18.40	0
		1	24	18.23	18.27	18.32	0
		12	0	18.31	18.37	18.35	1
		12	6	18.24	18.38	18.32	1
		12	13	18.30	18.36	18.38	1
		25	0	18.26	18.37	18.32	1
	16QAM	1	0	18.23	18.32	18.33	1
		1	12	18.26	18.39	18.34	1
		1	24	18.24	18.25	18.29	1
		12	0	18.24	18.33	18.29	2
		12	6	18.22	18.33	18.27	2
		12	13	18.23	18.32	18.33	2
		25	0	18.28	18.34	18.34	2
	64QAM	1	0	18.22	18.31	18.32	2
		1	12	18.24	18.37	18.31	2
		1	24	18.19	18.33	18.30	2
		12	0	18.26	18.32	18.27	3
		12	6	18.18	18.32	18.29	3
		12	13	18.24	18.30	18.25	3
		25	0	18.25	18.36	18.33	3

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BW	MCS Index	Channel		20415	20525	20635	3GPP MPR
		Frequency (MHz)		825.5	836.5	847.5	
3M	QPSK	1	0	18.26	18.37	18.31	0
		1	7	18.30	18.39	18.40	0
		1	14	18.22	18.28	18.28	0
		8	0	18.28	18.37	18.38	1
		8	3	18.24	18.37	18.31	1
		8	7	18.26	18.40	18.37	1
		15	0	18.28	18.34	18.29	1
	16QAM	1	0	18.22	18.36	18.33	1
		1	7	18.29	18.36	18.35	1
		1	14	18.24	18.25	18.30	1
		8	0	18.24	18.35	18.32	2
		8	3	18.25	18.29	18.31	2
		8	7	18.28	18.30	18.30	2
		15	0	18.28	18.33	18.37	2
	64QAM	1	0	18.28	18.34	18.26	2
		1	7	18.27	18.31	18.31	2
		1	14	18.26	18.28	18.30	2
		8	0	18.25	18.35	18.28	3
		8	3	18.24	18.25	18.30	3
		8	7	18.20	18.31	18.28	3
		15	0	18.29	18.30	18.35	3
BW	MCS Index	Channel		20407	20525	20643	3GPP MPR
		Frequency (MHz)		824.7	836.5	848.3	
1.4M	QPSK	1	0	18.24	18.35	18.32	0
		1	2	18.34	18.38	18.40	0
		1	5	18.26	18.28	18.28	0
		3	0	18.29	18.34	18.38	0
		3	1	18.31	18.37	18.29	0
		3	3	18.29	18.33	18.33	0
		6	0	18.31	18.33	18.35	1
	16QAM	1	0	18.25	18.30	18.30	1
		1	2	18.32	18.33	18.37	1
		1	5	18.21	18.25	18.30	1
		3	0	18.28	18.34	18.32	1
		3	1	18.20	18.34	18.28	1
		3	3	18.26	18.32	18.34	1
		6	0	18.28	18.39	18.34	2
	64QAM	1	0	18.22	18.31	18.32	2
		1	2	18.24	18.37	18.32	2
		1	5	18.25	18.26	18.30	2
		3	0	18.22	18.31	18.27	2
		3	1	18.20	18.31	18.25	2
		3	3	18.23	18.27	18.32	2
		6	0	18.27	18.33	18.31	3

LTE Band 7							
BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)
		Channel		20850	21100	21350	
		Frequency (MHz)		2510	2535	2560	
20M	QPSK	1	0	11.79	11.56	11.48	0
		1	50	11.90	11.67	11.59	0
		1	99	11.52	11.29	11.21	0
		50	0	11.85	11.62	11.54	1
		50	25	11.83	11.60	11.52	1
		50	50	11.81	11.58	11.50	1
		100	0	11.84	11.61	11.53	1
	16QAM	1	0	11.77	11.54	11.46	1
		1	50	11.88	11.65	11.57	1
		1	99	11.47	11.24	11.16	1
		50	0	11.81	11.58	11.50	2
		50	25	11.79	11.56	11.48	2
		50	50	11.78	11.55	11.47	2
		100	0	11.80	11.57	11.49	2
	64QAM	1	0	11.78	11.55	11.47	2
		1	50	11.85	11.62	11.54	2
		1	99	11.49	11.26	11.18	2
		50	0	11.80	11.57	11.49	3
		50	25	11.77	11.54	11.46	3
		50	50	11.79	11.56	11.48	3
		100	0	11.82	11.59	11.51	3
BW	MCS Index	Channel		20825	21100	21375	3GPP MPR
		Frequency (MHz)		2507.5	2535	2562.5	
15M	QPSK	1	0	11.78	11.52	11.40	0
		1	37	11.86	11.64	11.53	0
		1	74	11.50	11.28	11.17	0
		36	0	11.79	11.57	11.53	1
		36	19	11.82	11.58	11.47	1
		36	39	11.73	11.51	11.48	1
		75	0	11.83	11.57	11.50	1
	16QAM	1	0	11.74	11.53	11.40	1
		1	37	11.84	11.60	11.55	1
		1	74	11.41	11.22	11.13	1
		36	0	11.79	11.50	11.49	2
		36	19	11.71	11.52	11.43	2
		36	39	11.75	11.49	11.45	2
		75	0	11.79	11.52	11.41	2
	64QAM	1	0	11.72	11.52	11.43	2
		1	37	11.83	11.55	11.49	2
		1	74	11.43	11.18	11.16	2
		36	0	11.79	11.55	11.41	3
		36	19	11.70	11.46	11.40	3
		36	39	11.77	11.55	11.44	3
		75	0	11.80	11.51	11.50	3

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BW	MCS Index	Channel		20800	21100	21400	3GPP MPR
		Frequency (MHz)		2505	2535	2565	
10M	QPSK	1	0	11.71	11.52	11.43	0
		1	24	11.88	11.59	11.58	0
		1	49	11.44	11.25	11.16	0
		25	0	11.82	11.56	11.52	1
		25	12	11.81	11.53	11.47	1
		25	25	11.75	11.50	11.48	1
		50	0	11.83	11.59	11.45	1
	16QAM	1	0	11.70	11.46	11.40	1
		1	24	11.85	11.59	11.55	1
		1	49	11.45	11.17	11.11	1
		25	0	11.75	11.50	11.48	2
		25	12	11.77	11.48	11.47	2
		25	25	11.70	11.51	11.42	2
		50	0	11.78	11.49	11.48	2
	64QAM	1	0	11.70	11.51	11.42	2
		1	24	11.82	11.56	11.52	2
		1	49	11.47	11.19	11.13	2
		25	0	11.74	11.49	11.47	3
		25	12	11.76	11.52	11.38	3
		25	25	11.74	11.48	11.42	3
		50	0	11.81	11.53	11.49	3
BW	MCS Index	Channel		20775	21100	21425	3GPP MPR
		Frequency (MHz)		2502.5	2535	2567.5	
5M	QPSK	1	0	11.74	11.49	11.43	0
		1	12	11.88	11.59	11.57	0
		1	24	11.47	11.21	11.20	0
		12	0	11.81	11.57	11.49	1
		12	6	11.75	11.59	11.47	1
		12	13	11.77	11.53	11.49	1
		25	0	11.78	11.59	11.48	1
	16QAM	1	0	11.70	11.49	11.44	1
		1	12	11.80	11.63	11.52	1
		1	24	11.45	11.16	11.14	1
		12	0	11.73	11.52	11.42	2
		12	6	11.73	11.54	11.42	2
		12	13	11.71	11.50	11.45	2
		25	0	11.74	11.50	11.44	2
	64QAM	1	0	11.71	11.50	11.45	2
		1	12	11.77	11.60	11.48	2
		1	24	11.41	11.25	11.16	2
		12	0	11.76	11.52	11.41	3
		12	6	11.69	11.53	11.44	3
		12	13	11.75	11.51	11.40	3
		25	0	11.76	11.57	11.48	3

LTE Band 38							
BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)
		Channel		37850	38000	38150	
		Frequency (MHz)		2580	2595	2610	
20M	QPSK	1	0	14.38	14.33	14.24	0
		1	50	14.74	14.69	14.60	0
		1	99	14.31	14.26	14.17	0
		50	0	14.74	14.69	14.60	1
		50	25	14.63	14.58	14.49	1
		50	50	14.65	14.60	14.51	1
		100	0	14.71	14.66	14.57	1
	16QAM	1	0	14.46	14.41	14.32	1
		1	50	14.81	14.76	14.67	1
		1	99	14.40	14.35	14.26	1
		50	0	14.74	14.69	14.60	2
		50	25	14.71	14.66	14.57	2
		50	50	14.69	14.64	14.55	2
		100	0	14.72	14.67	14.58	2
	64QAM	1	0	14.21	14.16	14.07	2
		1	50	14.52	14.47	14.38	2
		1	99	14.15	14.10	14.01	2
		50	0	14.73	14.68	14.59	3
		50	25	14.69	14.64	14.55	3
		50	50	14.68	14.63	14.54	3
		100	0	14.74	14.69	14.60	3
BW	MCS Index	Channel		37825	38000	38175	3GPP MPR
		Frequency (MHz)		2577.5	2595	2612.5	
15M	QPSK	1	0	14.37	14.29	14.16	0
		1	37	14.70	14.66	14.54	0
		1	74	14.29	14.25	14.13	0
		36	0	14.68	14.64	14.59	1
		36	19	14.62	14.56	14.44	1
		36	39	14.57	14.53	14.49	1
		75	0	14.70	14.62	14.54	1
	16QAM	1	0	14.43	14.40	14.26	1
		1	37	14.77	14.71	14.65	1
		1	74	14.34	14.33	14.23	1
		36	0	14.72	14.61	14.59	2
		36	19	14.63	14.62	14.52	2
		36	39	14.66	14.58	14.53	2
		75	0	14.71	14.62	14.50	2
	64QAM	1	0	14.15	14.13	14.03	2
		1	37	14.50	14.40	14.33	2
		1	74	14.09	14.02	13.99	2
		36	0	14.72	14.66	14.51	3
		36	19	14.62	14.56	14.49	3
		36	39	14.66	14.62	14.50	3
		75	0	14.72	14.61	14.59	3

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BW	MCS Index	Channel		37800	38000	38200	3GPP MPR
		Frequency (MHz)		2575	2595	2615	
10M	QPSK	1	0	14.30	14.29	14.19	0
		1	24	14.72	14.61	14.59	0
		1	49	14.23	14.22	14.12	0
		25	0	14.71	14.63	14.58	1
		25	12	14.61	14.51	14.44	1
		25	25	14.59	14.52	14.49	1
		50	0	14.70	14.64	14.49	1
	16QAM	1	0	14.39	14.33	14.26	1
		1	24	14.78	14.70	14.65	1
		1	49	14.38	14.28	14.21	1
		25	0	14.68	14.61	14.58	2
		25	12	14.69	14.58	14.56	2
		25	25	14.61	14.60	14.50	2
		50	0	14.70	14.59	14.57	2
	64QAM	1	0	14.13	14.12	14.02	2
		1	24	14.49	14.41	14.36	2
		1	49	14.13	14.03	13.96	2
		25	0	14.67	14.60	14.57	3
		25	12	14.68	14.62	14.47	3
		25	25	14.63	14.55	14.48	3
		50	0	14.73	14.63	14.58	3
BW	MCS Index	Channel		37775	38000	38225	3GPP MPR
		Frequency (MHz)		2572.5	2595	2617.5	
5M	QPSK	1	0	14.33	14.26	14.19	0
		1	12	14.72	14.61	14.58	0
		1	24	14.26	14.18	14.16	0
		12	0	14.70	14.64	14.55	1
		12	6	14.55	14.57	14.44	1
		12	13	14.61	14.55	14.50	1
		25	0	14.65	14.64	14.52	1
	16QAM	1	0	14.39	14.36	14.30	1
		1	12	14.73	14.74	14.62	1
		1	24	14.38	14.27	14.24	1
		12	0	14.66	14.63	14.52	2
		12	6	14.65	14.64	14.51	2
		12	13	14.62	14.59	14.53	2
		25	0	14.66	14.60	14.53	2
	64QAM	1	0	14.14	14.11	14.05	2
		1	12	14.44	14.45	14.32	2
		1	24	14.07	14.09	13.99	2
		12	0	14.69	14.63	14.51	3
		12	6	14.61	14.63	14.53	3
		12	13	14.64	14.58	14.46	3
		25	0	14.68	14.67	14.57	3

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LTE Band 41									
BW	MCS Index	RB Size	RB Offset	Low	Mid	Mid	Mid	High	3GPP MPR (dB)
		Channel		39750	40185	40620	41055	41490	
		Frequency (MHz)		2506	2549.5	2593	2636.5	2680	
20M	QPSK	1	0	14.35	14.33	14.22	14.25	14.31	0
		1	50	14.71	14.69	14.58	14.61	14.67	0
		1	99	14.28	14.26	14.15	14.18	14.24	0
		50	0	14.64	14.62	14.51	14.54	14.60	1
		50	25	14.55	14.53	14.42	14.45	14.51	1
		50	50	14.63	14.61	14.50	14.53	14.59	1
		100	0	14.56	14.54	14.43	14.46	14.52	1
	16QAM	1	0	14.37	14.35	14.24	14.27	14.33	1
		1	50	14.61	14.59	14.48	14.51	14.57	1
		1	99	14.46	14.44	14.33	14.36	14.42	1
		50	0	14.61	14.59	14.48	14.51	14.57	2
		50	25	14.63	14.61	14.50	14.53	14.59	2
		50	50	14.58	14.56	14.45	14.48	14.54	2
		100	0	14.61	14.59	14.48	14.51	14.57	2
	64QAM	1	0	14.13	14.11	14.00	14.03	14.09	2
		1	50	14.49	14.47	14.36	14.39	14.45	2
		1	99	14.23	14.21	14.10	14.13	14.19	2
		50	0	14.60	14.58	14.47	14.50	14.56	3
		50	25	14.61	14.59	14.48	14.51	14.57	3
		50	50	14.60	14.58	14.47	14.50	14.56	3
		100	0	14.63	14.61	14.50	14.53	14.59	3
BW	MCS Index	Channel		39725	40173	40620	41068	41515	3GPP MPR
		Frequency (MHz)		2503.5	2548.3	2593	2637.8	2682.5	
15M	QPSK	1	0	14.34	14.29	14.14	14.23	14.25	0
		1	37	14.67	14.66	14.52	14.53	14.65	0
		1	74	14.26	14.25	14.11	14.12	14.18	0
		36	0	14.58	14.57	14.50	14.50	14.59	1
		36	19	14.54	14.51	14.37	14.44	14.44	1
		36	39	14.55	14.54	14.48	14.48	14.57	1
		75	0	14.55	14.50	14.40	14.43	14.47	1
	16QAM	1	0	14.34	14.34	14.18	14.20	14.31	1
		1	37	14.57	14.54	14.46	14.43	14.50	1
		1	74	14.40	14.42	14.30	14.34	14.38	1
		36	0	14.59	14.51	14.47	14.47	14.56	2
		36	19	14.55	14.57	14.45	14.47	14.54	2
		36	39	14.55	14.50	14.43	14.46	14.52	2
		75	0	14.60	14.54	14.40	14.43	14.51	2
	64QAM	1	0	14.07	14.08	13.96	14.00	14.08	2
		1	37	14.47	14.40	14.31	14.38	14.37	2
		1	74	14.17	14.13	14.08	14.07	14.18	2
		36	0	14.59	14.56	14.39	14.47	14.53	3
		36	19	14.54	14.51	14.42	14.50	14.53	3
		36	39	14.58	14.57	14.43	14.45	14.54	3
		75	0	14.61	14.53	14.49	14.51	14.56	3

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BW	MCS Index	Channel		39700	40160	40620	41080	41540	3GPP MPR
		Frequency (MHz)		2501	2547	2593	2639	2685	
10M	QPSK	1	0	14.27	14.29	14.17	14.18	14.23	0
		1	24	14.69	14.61	14.57	14.53	14.65	0
		1	49	14.20	14.22	14.10	14.16	14.16	0
		25	0	14.61	14.56	14.49	14.46	14.57	1
		25	12	14.53	14.46	14.37	14.39	14.49	1
		25	25	14.57	14.53	14.48	14.52	14.54	1
		50	0	14.55	14.52	14.35	14.41	14.50	1
	16QAM	1	0	14.30	14.27	14.18	14.25	14.28	1
		1	24	14.58	14.53	14.46	14.46	14.55	1
		1	49	14.44	14.37	14.28	14.34	14.34	1
		25	0	14.55	14.51	14.46	14.43	14.51	2
		25	12	14.61	14.53	14.49	14.50	14.53	2
		25	25	14.50	14.52	14.40	14.46	14.47	2
		50	0	14.59	14.51	14.47	14.45	14.49	2
	64QAM	1	0	14.05	14.07	13.95	14.01	14.07	2
		1	24	14.46	14.41	14.34	14.31	14.37	2
		1	49	14.21	14.14	14.05	14.11	14.13	2
		25	0	14.54	14.50	14.45	14.42	14.49	3
		25	12	14.60	14.57	14.40	14.48	14.54	3
		25	25	14.55	14.50	14.41	14.45	14.54	3
		50	0	14.62	14.55	14.48	14.51	14.53	3
BW	MCS Index	Channel		39675	40148	40620	41093	41565	3GPP MPR
		Frequency (MHz)		2498.5	2545.8	2593	2640.3	2687.5	
5M	QPSK	1	0	14.30	14.26	14.17	14.20	14.25	0
		1	12	14.69	14.61	14.56	14.57	14.60	0
		1	24	14.23	14.18	14.14	14.10	14.18	0
		12	0	14.60	14.57	14.46	14.50	14.53	1
		12	6	14.47	14.52	14.37	14.39	14.43	1
		12	13	14.59	14.56	14.49	14.46	14.53	1
		25	0	14.50	14.52	14.38	14.38	14.50	1
	16QAM	1	0	14.30	14.30	14.22	14.19	14.28	1
		1	12	14.53	14.57	14.43	14.47	14.56	1
		1	24	14.44	14.36	14.31	14.28	14.37	1
		12	0	14.53	14.53	14.40	14.47	14.55	2
		12	6	14.57	14.59	14.44	14.47	14.54	2
		12	13	14.51	14.51	14.43	14.47	14.52	2
		25	0	14.55	14.52	14.43	14.46	14.56	2
	64QAM	1	0	14.06	14.06	13.98	13.98	14.04	2
		1	12	14.41	14.45	14.30	14.38	14.40	2
		1	24	14.15	14.20	14.08	14.08	14.18	2
		12	0	14.56	14.53	14.39	14.48	14.54	3
		12	6	14.53	14.58	14.46	14.46	14.52	3
		12	13	14.56	14.53	14.39	14.48	14.52	3
		25	0	14.57	14.59	14.47	14.45	14.51	3

<WLAN 2.4G>

Mode	Channel	Frequency (MHz)	Avg. Power (dBm)	Duty cycle %
802.11b	1	2412	13.30	99.50
	6	2437	13.02	
	11	2462	13.41	
802.11g	1	2412	12.35	96.70
	6	2437	12.61	
	11	2462	12.72	
802.11n HT20	1	2412	12.39	96.40
	6	2437	12.67	
	11	2462	12.47	

<WLAN 5.2G>

Mode	Channel	Frequency (MHz)	Avg. Power (dBm)	Duty cycle %
802.11a	36	5180	12.69	97.10
	40	5200	12.84	
	44	5220	12.67	
	48	5240	12.82	
802.11n HT20	36	5180	12.05	96.60
	40	5200	12.07	
	44	5220	12.07	
	48	5240	12.17	
802.11n HT40	38	5190	12.01	93.30
	46	5230	12.11	
802.11ac VHT20	36	5180	12.03	96.40
	40	5200	12.10	
	44	5220	12.06	
	48	5240	12.07	
802.11ac VHT40	38	5190	11.96	93.30
	46	5230	12.05	
802.11ac VHT80	42	5210	11.83	87.90

<WLAN 5.3G>

Mode	Channel	Frequency (MHz)	Avg. Power (dBm)	Duty cycle %
802.11a	52	5260	12.85	97.10
	56	5280	12.87	
	60	5300	12.98	
	64	5320	13.01	
802.11n HT20	52	5260	12.05	96.60
	56	5280	12.28	
	60	5300	12.19	
	64	5320	12.29	
802.11n HT40	54	5270	12.05	93.30
	62	5310	12.20	
802.11ac VHT20	52	5260	12.06	96.40
	56	5280	12.23	
	60	5300	12.36	
	64	5320	12.18	
802.11ac VHT40	54	5270	12.12	93.30
	62	5310	12.09	
802.11ac VHT80	58	5290	12.04	87.90

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<WLAN 5.6G>

Mode	Channel	Frequency (MHz)	Avg. Power (dBm)	Duty cycle %
802.11a	100	5500	12.61	97.10
	116	5580	12.74	
	124	5620	12.64	
	132	5660	12.84	
	140	5700	12.81	
802.11n HT20	100	5500	12.02	96.60
	116	5580	11.95	
	124	5620	11.92	
	132	5660	12.10	
	140	5700	12.09	
802.11n HT40	102	5510	11.84	93.30
	110	5550	11.88	
	126	5630	11.83	
	134	5670	12.03	
802.11ac VHT20	100	5500	11.96	96.40
	116	5580	11.95	
	124	5620	11.93	
	132	5660	12.14	
	140	5700	12.05	
802.11ac VHT40	102	5510	11.83	93.30
	110	5550	11.93	
	126	5630	11.82	
	134	5670	11.99	
802.11ac VHT80	106	5530	11.82	87.90
	122	5610	11.99	

<WLAN 5.8G>

Mode	Channel	Frequency (MHz)	Avg. Power (dBm)	Duty cycle %
802.11a	149	5745	13.96	97.10
	157	5785	14.16	
	165	5825	14.19	
802.11n HT20	149	5745	13.24	96.60
	157	5785	13.51	
	165	5825	13.44	
802.11n HT40	151	5755	13.04	93.30
	159	5795	13.28	
802.11ac VHT20	149	5745	13.11	96.40
	157	5785	13.35	
	165	5825	13.44	
802.11ac VHT40	151	5755	13.07	93.30
	159	5795	13.31	
802.11ac VHT80	155	5775	13.21	87.90

4.6 SAR Testing Results

4.6.1 SAR Test Reduction Considerations

<KDB 447498 D01, General RF Exposure Guidance>

Testing of other required channels within the operating mode of a frequency band is not required when the reported SAR for the mid-band or highest output power channel is:

- (1) ≤ 0.8 W/kg or 2.0 W/kg, for 1-g or 10-g respectively, when the transmission band is ≤ 100 MHz
- (2) ≤ 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
- (3) ≤ 0.4 W/kg or 1.0 W/kg, for 1-g or 10-g respectively, when the transmission band is ≥ 200 MHz

When SAR is not measured at the maximum power level allowed for production units, the measured SAR will be scaled to the maximum tune-up tolerance limit to determine compliance. The scaling factor for the tune-up power is defined as maximum tune-up limit (mW) / measured conducted power (mW). The reported SAR would be calculated by measured SAR x tune-up power scaling factor.

The SAR has been measured with highest transmission duty factor supported by the test mode tools for WLAN and/or Bluetooth. When the transmission duty factor could not achieve 100%, the reported SAR will be scaled to 100% transmission duty factor to determine compliance at the maximum tune-up power. The scaling factor for the duty factor is defined as 100% / transmission duty cycle (%). The reported SAR would be calculated by measured SAR x tune-up power scaling factor x duty cycle scaling factor.

<KDB 941225 D05, SAR Evaluation Considerations for LTE Devices>

- (1) QPSK with 1 RB and 50% RB allocation

Start with the largest channel bandwidth and measure SAR, using the RB offset and required test channel combination with the highest maximum output power among RB offsets at the upper edge, middle and lower edge of each required test channel. When the reported SAR is ≤ 0.8 W/kg, testing of the remaining RB offset configurations and required test channels is not required; otherwise, SAR is required for the remaining required test channels and only for the RB offset configuration with the highest output power for that channel. When the reported SAR of a required test channel is > 1.45 W/kg, SAR is required for all three RB offset configurations for that required test channel.

- (2) 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.

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(3) Higher order modulations

SAR is required only when the highest maximum output power for the configuration in the higher order modulation is > 1/2 dB higher than the same configuration in QPSK or when the reported SAR for the QPSK configuration is > 1.45 W/kg.

(4) Other channel bandwidth

SAR is required when the highest maximum output power of the smaller channel bandwidth is > 1/2 dB higher than the equivalent channel configurations in the largest channel bandwidth configuration or the reported SAR of a configuration for the largest channel bandwidth is > 1.45 W/kg.

<KDB 248227 D01, SAR Guidance for Wi-Fi Transmitters>

- (1) For handsets operating next to ear, hotspot mode or mini-tablet configurations, the initial test position procedures were applied. The test position with the highest extrapolated peak SAR will be used as the initial test position. When the reported SAR of initial test position is ≤ 0.4 W/kg, SAR testing for remaining test positions is not required. Otherwise, SAR is evaluated at the subsequent highest peak SAR positions until the reported SAR result is ≤ 0.8 W/kg or all test positions are measured.
- (2) For WLAN 2.4 GHz, the highest measured maximum output power channel for DSSS was selected for SAR measurement. When the reported SAR is ≤ 0.8 W/kg, no further SAR testing is required. Otherwise, SAR is evaluated at the next highest measured output power channel. When any reported SAR is > 1.2 W/kg, SAR is required for the third channel. For OFDM modes (802.11g/n), SAR is not required when the highest reported SAR for DSSS is adjusted by the ratio of OFDM to DSSS specified maximum output power and it is ≤ 1.2 W/kg.
- (3) For WLAN 5 GHz, the initial test configuration was selected according to the transmission mode with the highest maximum output power. When the reported SAR of initial test configuration is > 0.8 W/kg, SAR is required for the subsequent highest measured output power channel until the reported SAR result is ≤ 1.2 W/kg or all required channels are measured. For other transmission modes, SAR is not required when the highest reported SAR for initial test configuration is adjusted by the ratio of subsequent test configuration to initial test configuration specified maximum output power and it is ≤ 1.2 W/kg.
- (4) For WLAN MIMO mode, the power-based standalone SAR test exclusion or the sum of SAR provision in KDB 447498 to determine simultaneous transmission SAR test exclusion should be applied. Otherwise, SAR for MIMO mode will be measured with all applicable antennas transmitting simultaneously at the specified maximum output power of MIMO operation.

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4.6.2 SAR Results for Head Exposure Condition

<GSM>

Plot No.	Band	Mode	Test Position	Ch.	Power Reduction	Sample	Max. Tune-up Power (dBm)	Measured Conducted Power (dBm)	Power Drift (dB)	Measured SAR-1g (W/kg)	Scaling Factor	Scaled SAR-1g (W/kg)
	GSM850	GPRS12	Right Cheek	251	Sensor on	1	21.5	20.95	0.11	0.633	1.14	0.72
	GSM850	GPRS12	Right Tilted	251	Sensor on	1	21.5	20.95	-0.03	0.550	1.14	0.62
	GSM850	GPRS12	Left Cheek	251	Sensor on	1	21.5	20.95	-0.01	0.865	1.14	0.98
	GSM850	GPRS12	Left Tilted	251	Sensor on	1	21.5	20.95	0.00	0.673	1.14	0.76
	GSM850	GPRS12	Left Cheek	128	Sensor on	1	21.5	20.85	0.03	0.910	1.16	1.06
1	GSM850	GPRS12	Left Cheek	189	Sensor on	1	21.5	20.90	0.06	0.953	1.15	1.09
	GSM850	GPRS12	Left Cheek	189	Sensor on	2	21.5	20.90	0.09	0.735	1.15	0.84
	GSM1900	GPRS12	Right Cheek	810	Sensor on	1	23.5	23.20	0.14	0.450	1.07	0.48
	GSM1900	GPRS12	Right Tilted	810	Sensor on	1	23.5	23.20	-0.02	0.427	1.07	0.46
	GSM1900	GPRS12	Left Cheek	810	Sensor on	1	23.5	23.20	0.01	0.883	1.07	0.95
	GSM1900	GPRS12	Left Tilted	810	Sensor on	1	23.5	23.20	0.08	0.809	1.07	0.87
2	GSM1900	GPRS12	Left Cheek	512	Sensor on	1	23.5	23.05	0.06	0.984	1.11	1.09
	GSM1900	GPRS12	Left Cheek	661	Sensor on	1	23.5	23.09	0.05	0.884	1.10	0.97
	GSM1900	GPRS12	Left Tilted	512	Sensor on	1	23.5	23.05	0.05	0.816	1.11	0.91
	GSM1900	GPRS12	Left Tilted	661	Sensor on	1	23.5	23.09	0.03	0.786	1.10	0.86
	GSM1900	GPRS12	Left Cheek	512	Sensor on	2	23.5	23.05	-0.04	0.701	1.11	0.78

<FDD-LTE>

Plot No.	Band	Mode	Test Position	Ch.	Power Reduction	Sample	RB#	RB Offset	Max. Tune-up Power (dBm)	Measured Conducted Power (dBm)	Power Drift (dB)	Measured SAR-1g (W/kg)	Scaling Factor	Scaled SAR-1g (W/kg)
	LTE 2	QPSK20M	Right Cheek	18700	Sensor on	1	1	50	15.0	14.01	0.00	0.186	1.26	0.23
	LTE 2	QPSK20M	Right Tilted	18700	Sensor on	1	1	50	15.0	14.01	0.14	0.153	1.26	0.19
	LTE 2	QPSK20M	Left Cheek	18700	Sensor on	1	1	50	15.0	14.01	0.10	0.355	1.26	0.45
	LTE 2	QPSK20M	Left Tilted	18700	Sensor on	1	1	50	15.0	14.01	0.00	0.287	1.26	0.36
	LTE 2	QPSK20M	Right Cheek	18700	Sensor on	1	50	25	15.0	13.86	0.10	0.198	1.30	0.26
	LTE 2	QPSK20M	Right Tilted	18700	Sensor on	1	50	25	15.0	13.86	0.03	0.124	1.30	0.16
3	LTE 2	QPSK20M	Left Cheek	18700	Sensor on	1	50	25	15.0	13.86	0.04	0.440	1.30	0.57
	LTE 2	QPSK20M	Left Tilted	18700	Sensor on	1	50	25	15.0	13.86	-0.10	0.295	1.30	0.38
	LTE 2	QPSK20M	Left Cheek	18700	Sensor on	2	50	25	15.0	13.86	-0.01	0.437	1.30	0.57
	LTE 4	QPSK20M	Right Cheek	20300	Sensor on	1	1	50	18.0	17.13	-0.03	0.368	1.22	0.45
	LTE 4	QPSK20M	Right Tilted	20300	Sensor on	1	1	50	18.0	17.13	0.06	0.226	1.22	0.28
	LTE 4	QPSK20M	Left Cheek	20300	Sensor on	1	1	50	18.0	17.13	0.01	0.714	1.22	0.87
	LTE 4	QPSK20M	Left Tilted	20300	Sensor on	1	1	50	18.0	17.13	-0.02	0.514	1.22	0.63
	LTE 4	QPSK20M	Left Cheek	20050	Sensor on	1	1	50	18.0	16.78	0.05	0.674	1.32	0.89
	LTE 4	QPSK20M	Left Cheek	20175	Sensor on	1	1	50	18.0	17.05	0.03	0.711	1.24	0.88
	LTE 4	QPSK20M	Right Cheek	20300	Sensor on	1	50	25	18.0	16.99	-0.04	0.358	1.26	0.45
	LTE 4	QPSK20M	Right Tilted	20300	Sensor on	1	50	25	18.0	16.99	-0.13	0.229	1.26	0.29
	LTE 4	QPSK20M	Left Cheek	20300	Sensor on	1	50	25	18.0	16.99	-0.11	0.677	1.26	0.85
	LTE 4	QPSK20M	Left Tilted	20300	Sensor on	1	50	25	18.0	16.99	-0.13	0.534	1.26	0.67
4	LTE 4	QPSK20M	Left Cheek	20050	Sensor on	1	50	25	18.0	16.64	0.08	0.776	1.37	1.06
	LTE 4	QPSK20M	Left Cheek	20175	Sensor on	1	50	25	18.0	16.91	0.04	0.795	1.29	1.02
	LTE 4	QPSK20M	Left Cheek	20300	Sensor on	1	100	0	18.0	16.94	0.00	0.726	1.28	0.93
	LTE 4	QPSK20M	Left Cheek	20050	Sensor on	2	50	25	18.0	16.64	-0.06	0.735	1.37	1.01

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Plot No.	Band	Mode	Test Position	Ch.	Power Reduction	Sample	RB#	RB Offset	Max. Tune-up Power (dBm)	Measured Conducted Power (dBm)	Power Drift (dB)	Measured SAR-1g (W/kg)	Scaling Factor	Scaled SAR-1g (W/kg)
	LTE 5	QPSK10M	Right Cheek	20525	Sensor on	1	1	25	20.0	18.44	-0.14	0.473	1.43	0.68
	LTE 5	QPSK10M	Right Tilted	20525	Sensor on	1	1	25	20.0	18.44	0.00	0.396	1.43	0.57
	LTE 5	QPSK10M	Left Cheek	20525	Sensor on	1	1	25	20.0	18.44	0.00	0.585	1.43	0.84
	LTE 5	QPSK10M	Left Tilted	20525	Sensor on	1	1	25	20.0	18.44	-0.08	0.454	1.43	0.65
	LTE 5	QPSK10M	Left Cheek	20450	Sensor on	1	1	25	20.0	18.37	-0.02	0.621	1.46	0.90
	LTE 5	QPSK10M	Left Cheek	20600	Sensor on	1	1	25	20.0	18.42	0.02	0.540	1.44	0.78
	LTE 5	QPSK10M	Right Cheek	20525	Sensor on	1	25	0	20.0	18.42	-0.03	0.499	1.44	0.72
	LTE 5	QPSK10M	Right Tilted	20525	Sensor on	1	25	0	20.0	18.42	-0.16	0.388	1.44	0.56
	LTE 5	QPSK10M	Left Cheek	20525	Sensor on	1	25	0	20.0	18.42	-0.03	0.638	1.44	0.92
	LTE 5	QPSK10M	Left Tilted	20525	Sensor on	1	25	0	20.0	18.42	-0.15	0.479	1.44	0.69
5	LTE 5	QPSK10M	Left Cheek	20450	Sensor on	1	25	0	20.0	18.35	0.03	0.717	1.46	1.05
	LTE 5	QPSK10M	Left Cheek	20600	Sensor on	1	25	0	20.0	18.40	0.14	0.633	1.45	0.91
	LTE 5	QPSK10M	Left Cheek	20525	Sensor on	1	50	0	20.0	18.39	-0.16	0.612	1.45	0.89
	LTE 5	QPSK10M	Left Cheek	20450	Sensor on	2	25	0	20.0	18.35	0.04	0.658	1.46	0.96
	LTE 7	QPSK20M	Right Cheek	20850	Sensor on	1	1	50	13.0	11.90	0.04	0.463	1.29	0.60
	LTE 7	QPSK20M	Right Tilted	20850	Sensor on	1	1	50	13.0	11.90	0.01	0.427	1.29	0.55
	LTE 7	QPSK20M	Left Cheek	20850	Sensor on	1	1	50	13.0	11.90	0.02	0.545	1.29	0.70
	LTE 7	QPSK20M	Left Tilted	20850	Sensor on	1	1	50	13.0	11.90	-0.03	0.558	1.29	0.72
	LTE 7	QPSK20M	Right Cheek	20850	Sensor on	1	50	0	13.0	11.85	0.02	0.513	1.30	0.67
	LTE 7	QPSK20M	Right Tilted	20850	Sensor on	1	50	0	13.0	11.85	-0.01	0.520	1.30	0.68
6	LTE 7	QPSK20M	Left Cheek	20850	Sensor on	1	50	0	13.0	11.85	0.05	0.563	1.30	0.73
	LTE 7	QPSK20M	Left Tilted	20850	Sensor on	1	50	0	13.0	11.85	0.19	0.509	1.30	0.66
	LTE 7	QPSK20M	Left Cheek	20850	Sensor on	2	50	0	13.0	11.85	-0.01	0.557	1.30	0.73

<TDD-LTE>

Plot No.	Band	Mode	Test Position	Ch.	Power Reduction	Sample	RB#	RB Offset	Duty Cycle %	Max. Tune-up Power (dBm)	Measured Conducted Power (dBm)	Power Drift (dB)	Measured SAR-1g (W/kg)	Duty Cycle Factor	Scaling Factor	Scaled SAR-1g (W/kg)
	LTE 41	QPSK20M	Right Cheek	39750	Sensor on	1	1	50	62.9	16.0	14.71	0.00	0.549	1.006	1.35	0.74
	LTE 41	QPSK20M	Right Tilted	39750	Sensor on	1	1	50	62.9	16.0	14.71	0.13	0.563	1.006	1.35	0.76
	LTE 41	QPSK20M	Left Cheek	39750	Sensor on	1	1	50	62.9	16.0	14.71	-0.19	0.611	1.006	1.35	0.82
7	LTE 41	QPSK20M	Left Tilted	39750	Sensor on	1	1	50	62.9	16.0	14.71	-0.05	0.641	1.006	1.35	0.86
	LTE 41	QPSK20M	Right Cheek	40185	Sensor on	1	1	50	62.9	16.0	14.69	-0.02	0.521	1.006	1.35	0.70
	LTE 41	QPSK20M	Right Cheek	40620	Sensor on	1	1	50	62.9	16.0	14.58	-0.11	0.439	1.006	1.39	0.61
	LTE 41	QPSK20M	Right Cheek	41055	Sensor on	1	1	50	62.9	16.0	14.61	0.08	0.369	1.006	1.38	0.51
	LTE 41	QPSK20M	Right Cheek	41490	Sensor on	1	1	50	62.9	16.0	14.67	0.03	0.345	1.006	1.36	0.47
	LTE 41	QPSK20M	Right Tilted	40185	Sensor on	1	1	50	62.9	16.0	14.69	0.01	0.513	1.006	1.35	0.69
	LTE 41	QPSK20M	Right Tilted	40620	Sensor on	1	1	50	62.9	16.0	14.58	0.00	0.435	1.006	1.39	0.60
	LTE 41	QPSK20M	Right Tilted	41055	Sensor on	1	1	50	62.9	16.0	14.61	0.12	0.396	1.006	1.38	0.55
	LTE 41	QPSK20M	Right Tilted	41490	Sensor on	1	1	50	62.9	16.0	14.67	0.09	0.335	1.006	1.36	0.46
	LTE 41	QPSK20M	Left Cheek	40185	Sensor on	1	1	50	62.9	16.0	14.69	-0.09	0.513	1.006	1.35	0.69
	LTE 41	QPSK20M	Left Cheek	40620	Sensor on	1	1	50	62.9	16.0	14.58	0.05	0.436	1.006	1.39	0.60
	LTE 41	QPSK20M	Left Cheek	41055	Sensor on	1	1	50	62.9	16.0	14.61	0.16	0.402	1.006	1.38	0.55
	LTE 41	QPSK20M	Left Cheek	41490	Sensor on	1	1	50	62.9	16.0	14.67	0.18	0.361	1.006	1.36	0.49
	LTE 41	QPSK20M	Left Tilted	40185	Sensor on	1	1	50	62.9	16.0	14.69	0.11	0.520	1.006	1.35	0.70
	LTE 41	QPSK20M	Left Tilted	40620	Sensor on	1	1	50	62.9	16.0	14.58	-0.03	0.444	1.006	1.39	0.62
	LTE 41	QPSK20M	Left Tilted	41055	Sensor on	1	1	50	62.9	16.0	14.61	0.00	0.409	1.006	1.38	0.56
	LTE 41	QPSK20M	Left Tilted	41490	Sensor on	1	1	50	62.9	16.0	14.67	0.02	0.372	1.006	1.36	0.51
	LTE 41	QPSK20M	Right Cheek	39750	Sensor on	1	50	0	62.9	16.0	14.64	-0.03	0.546	1.006	1.37	0.75
	LTE 41	QPSK20M	Right Tilted	39750	Sensor on	1	50	0	62.9	16.0	14.64	0.05	0.556	1.006	1.37	0.76
	LTE 41	QPSK20M	Left Cheek	39750	Sensor on	1	50	0	62.9	16.0	14.64	0.10	0.586	1.006	1.37	0.80
	LTE 41	QPSK20M	Left Tilted	39750	Sensor on	1	50	0	62.9	16.0	14.64	0.05	0.603	1.006	1.37	0.82

FCC SAR Test Report

Plot No.	Band	Mode	Test Position	Ch.	Power Reduction	Sample	RB#	RB Offset	Duty Cycle %	Max. Tune-up Power (dBm)	Measured Conducted Power (dBm)	Power Drift (dB)	Measured SAR-1g (W/kg)	Duty Cycle Factor	Scaling Factor	Scaled SAR-1g (W/kg)
	LTE 41	QPSK20M	Right Cheek	40185	Sensor on	1	50	0	62.9	16.0	14.62	0.05	0.517	1.006	1.37	0.71
	LTE 41	QPSK20M	Right Cheek	40620	Sensor on	1	50	0	62.9	16.0	14.51	-0.03	0.418	1.006	1.41	0.59
	LTE 41	QPSK20M	Right Cheek	41055	Sensor on	1	50	0	62.9	16.0	14.54	0.02	0.374	1.006	1.40	0.52
	LTE 41	QPSK20M	Right Cheek	41490	Sensor on	1	50	0	62.9	16.0	14.60	0.01	0.334	1.006	1.38	0.46
	LTE 41	QPSK20M	Right Tilted	40185	Sensor on	1	50	0	62.9	16.0	14.62	0.13	0.505	1.006	1.37	0.69
	LTE 41	QPSK20M	Right Tilted	40620	Sensor on	1	50	0	62.9	16.0	14.51	-0.14	0.415	1.006	1.41	0.58
	LTE 41	QPSK20M	Right Tilted	41055	Sensor on	1	50	0	62.9	16.0	14.54	0.07	0.387	1.006	1.40	0.54
	LTE 41	QPSK20M	Right Tilted	41490	Sensor on	1	50	0	62.9	16.0	14.60	-0.02	0.346	1.006	1.38	0.48
	LTE 41	QPSK20M	Left Cheek	40185	Sensor on	1	50	0	62.9	16.0	14.62	0.00	0.517	1.006	1.37	0.71
	LTE 41	QPSK20M	Left Cheek	40620	Sensor on	1	50	0	62.9	16.0	14.51	0.05	0.434	1.006	1.41	0.61
	LTE 41	QPSK20M	Left Cheek	41055	Sensor on	1	50	0	62.9	16.0	14.54	0.04	0.402	1.006	1.40	0.56
	LTE 41	QPSK20M	Left Cheek	41490	Sensor on	1	50	0	62.9	16.0	14.60	0.12	0.365	1.006	1.38	0.50
	LTE 41	QPSK20M	Left Tilted	40185	Sensor on	1	50	0	62.9	16.0	14.62	0.05	0.524	1.006	1.37	0.72
	LTE 41	QPSK20M	Left Tilted	40620	Sensor on	1	50	0	62.9	16.0	14.51	0.15	0.443	1.006	1.41	0.62
	LTE 41	QPSK20M	Left Tilted	41055	Sensor on	1	50	0	62.9	16.0	14.54	0.17	0.410	1.006	1.40	0.57
	LTE 41	QPSK20M	Left Tilted	41490	Sensor on	1	50	0	62.9	16.0	14.60	0.01	0.376	1.006	1.38	0.52
	LTE 41	QPSK20M	Left Cheek	39750	Sensor on	1	100	0	62.9	16.0	14.56	0.11	0.585	1.006	1.39	0.81
	LTE 41	QPSK20M	Left Tilted	39750	Sensor on	1	100	0	62.9	16.0	14.56	0.02	0.605	1.006	1.39	0.84
	LTE 41	QPSK20M	Left Tilted	39750	Sensor on	2	1	50	62.9	16.0	14.71	0.07	0.627	1.006	1.35	0.84

<WLAN / BT>

Plot No.	Band	Mode	Test Position	Ch.	Power Reduction	Sample	Duty Cycle %	Max. Tune-up Power (dBm)	Measured Conducted Power (dBm)	Power Drift (dB)	Measured SAR-1g (W/kg)	Duty Cycle Factor	Scaling Factor	Scaled SAR-1g (W/kg)
	WLAN2.4G	802.11b	Right Cheek	11	Sensor on	1	99.5	14.3	13.41	0.01	0.378	1.01	1.23	0.47
	WLAN2.4G	802.11b	Right Tilted	11	Sensor on	1	99.5	14.3	13.41	-0.04	0.254	1.01	1.23	0.31
	WLAN2.4G	802.11b	Left Cheek	11	Sensor on	1	99.5	14.3	13.41	-0.15	0.110	1.01	1.23	0.14
	WLAN2.4G	802.11b	Left Tilted	11	Sensor on	1	99.5	14.3	13.41	-0.02	0.083	1.01	1.23	0.10
8	WLAN2.4G	802.11b	Right Cheek	11	Sensor on	2	99.5	14.3	13.41	0.07	0.456	1.01	1.23	0.56
9	WLAN5G	802.11a	Right Cheek	64	Sensor on	1	97.1	14.5	13.01	0.01	0.440	1.03	1.41	0.64
	WLAN5G	802.11a	Right Tilted	64	Sensor on	1	97.1	14.5	13.01	-0.02	0.364	1.03	1.41	0.53
	WLAN5G	802.11a	Left Cheek	64	Sensor on	1	97.1	14.5	13.01	0.04	0.245	1.03	1.41	0.36
	WLAN5G	802.11a	Left Tilted	64	Sensor on	1	97.1	14.5	13.01	0.13	0.274	1.03	1.41	0.40
	WLAN5G	802.11a	Right Cheek	64	Sensor on	2	97.1	14.5	13.01	0.18	0.414	1.03	1.41	0.60
10	WLAN5G	802.11a	Right Cheek	132	Sensor on	1	97.1	14.5	12.84	0.07	0.372	1.03	1.47	0.56
	WLAN5G	802.11a	Right Tilted	132	Sensor on	1	97.1	14.5	12.84	0.02	0.231	1.03	1.47	0.35
	WLAN5G	802.11a	Left Cheek	132	Sensor on	1	97.1	14.5	12.84	-0.10	0.114	1.03	1.47	0.17
	WLAN5G	802.11a	Left Tilted	132	Sensor on	1	97.1	14.5	12.84	-0.02	0.126	1.03	1.47	0.19
	WLAN5G	802.11a	Right Cheek	132	Sensor on	2	97.1	14.5	12.84	0.05	0.369	1.03	1.47	0.56
11	WLAN5G	802.11a	Right Cheek	165	Sensor on	1	97.1	14.5	14.19	0.01	0.372	1.03	1.07	0.41
	WLAN5G	802.11a	Right Tilted	165	Sensor on	1	97.1	14.5	14.19	-0.09	0.300	1.03	1.07	0.33
	WLAN5G	802.11a	Left Cheek	165	Sensor on	1	97.1	14.5	14.19	0.08	0.226	1.03	1.07	0.25
	WLAN5G	802.11a	Left Tilted	165	Sensor on	1	97.1	14.5	14.19	-0.06	0.209	1.03	1.07	0.23
	WLAN5G	802.11a	Right Cheek	165	Sensor on	2	97.1	14.5	14.19	0.03	0.364	1.03	1.07	0.40
12	BT	GFSK	Right Cheek	78	Sensor off	1	-	10.5	9.98	0.05	0.095	-	1.13	0.11
	BT	GFSK	Right Tilted	78	Sensor off	1	-	10.5	9.98	-0.02	0.091	-	1.13	0.10
	BT	GFSK	Left Cheek	78	Sensor off	1	-	10.5	9.98	-0.00	0.034	-	1.13	0.04
	BT	GFSK	Left Tilted	78	Sensor off	1	-	10.5	9.98	-0.03	0.035	-	1.13	0.04
	BT	GFSK	Right Cheek	78	Sensor off	2	-	10.5	9.98	-0.02	0.091	-	1.13	0.10

FCC SAR Test Report

4.6.3 SAR Results for Body-worn Exposure Condition (Separation Distance is 1.0 cm Gap)

<GSM>

Plot No.	Band	Mode	Test Position	Separation Distance (cm)	Ch.	Power Reduction	Sample	Max. Tune-up Power (dBm)	Measured Conducted Power (dBm)	Power Drift (dB)	Measured SAR-1g (W/kg)	Scaling Factor	Scaled SAR-1g (W/kg)
13	GSM850	GPRS12	Front Face	1	251	Sensor on	1	21.5	20.95	-0.04	0.302	1.14	0.34
	GSM850	GPRS12	Rear Face	1	251	Sensor on	1	21.5	20.95	0.1	0.162	1.14	0.18
	GSM850	GPRS12	Front Face	2.1	251	Sensor off	1	28.5	27.02	0.13	0.072	1.41	0.10
	GSM850	GPRS12	Rear Face	1.4	251	Sensor off	1	28.5	27.02	0.02	0.102	1.41	0.14
	GSM850	GPRS12	Front Face	1	251	Sensor on	2	21.5	20.95	0.13	0.195	1.14	0.22
14	GSM1900	GPRS12	Front Face	1	810	Sensor on	1	23.5	23.20	0.05	0.279	1.07	0.30
	GSM1900	GPRS12	Rear Face	1	810	Sensor on	1	23.5	23.20	0.17	0.174	1.07	0.19
	GSM1900	GPRS12	Front Face	2.1	810	Sensor off	1	25.0	23.85	0.08	0.079	1.30	0.10
	GSM1900	GPRS12	Rear Face	1.4	810	Sensor off	1	25.0	23.85	-0.03	0.095	1.30	0.12
	GSM1900	GPRS12	Front Face	1	810	Sensor on	2	23.5	23.20	0.07	0.275	1.07	0.29

<FDD-LTE>

Plot No.	Band	Mode	Test Position	Separation Distance (cm)	Ch.	Power Reduction	Sample	RB#	RB Offset	Max. Tune-up Power (dBm)	Measured Conducted Power (dBm)	Power Drift (dB)	Measured SAR-1g (W/kg)	Scaling Factor	Scaled SAR-1g (W/kg)
15	LTE 2	QPSK20M	Front Face	1	18700	Sensor on	1	1	50	15.0	14.01	0.04	0.112	1.26	0.14
	LTE 2	QPSK20M	Rear Face	1	18700	Sensor on	1	1	50	15.0	14.01	0.04	0.087	1.26	0.11
	LTE 2	QPSK20M	Front Face	2.1	18700	Sensor off	1	1	50	23.5	22.51	0.1	0.235	1.26	0.30
	LTE 2	QPSK20M	Rear Face	1.4	18700	Sensor off	1	1	50	23.5	22.51	-0.01	0.502	1.26	0.63
	LTE 2	QPSK20M	Front Face	1	18700	Sensor on	1	50	25	15.0	13.86	0.07	0.112	1.30	0.15
	LTE 2	QPSK20M	Rear Face	1	18700	Sensor on	1	50	25	15.0	13.86	0.03	0.087	1.30	0.11
	LTE 2	QPSK20M	Front Face	2.1	18700	Sensor off	1	50	25	22.5	21.81	0.01	0.208	1.17	0.24
	LTE 2	QPSK20M	Rear Face	1.4	18700	Sensor off	1	50	25	22.5	21.81	0.13	0.374	1.17	0.44
16	LTE 2	QPSK20M	Rear Face	1.4	18700	Sensor off	2	1	50	23.5	22.51	0.01	0.408	1.26	0.51
	LTE 4	QPSK20M	Front Face	1	20300	Sensor on	1	1	50	18.0	17.13	-0.08	0.172	1.22	0.21
	LTE 4	QPSK20M	Rear Face	1	20300	Sensor on	1	1	50	18.0	17.13	0.01	0.165	1.22	0.20
	LTE 4	QPSK20M	Front Face	2.1	20300	Sensor off	1	1	50	23.5	22.53	-0.08	0.181	1.25	0.23
	LTE 4	QPSK20M	Rear Face	1.4	20300	Sensor off	1	1	50	23.5	22.53	0.13	0.487	1.25	0.61
	LTE 4	QPSK20M	Front Face	1	20300	Sensor on	1	50	25	18.0	16.99	-0.06	0.175	1.26	0.22
	LTE 4	QPSK20M	Rear Face	1	20300	Sensor on	1	50	25	18.0	16.99	-0.09	0.154	1.26	0.19
	LTE 4	QPSK20M	Front Face	2.1	20300	Sensor off	1	50	25	22.5	22.04	0.03	0.162	1.11	0.18
17	LTE 4	QPSK20M	Rear Face	1.4	20300	Sensor off	1	50	25	22.5	22.04	-0.1	0.348	1.11	0.39
	LTE 4	QPSK20M	Rear Face	1.4	20300	Sensor off	2	1	50	23.5	22.53	0.02	0.433	1.25	0.54
	LTE 5	QPSK10M	Front Face	1	20525	Sensor on	1	1	24	20.0	18.44	-0.04	0.235	1.43	0.34
	LTE 5	QPSK10M	Rear Face	1	20525	Sensor on	1	1	24	20.0	18.44	0.06	0.114	1.43	0.16
	LTE 5	QPSK10M	Front Face	2.1	20525	Sensor off	1	1	24	25.0	23.45	0.17	0.157	1.43	0.22
	LTE 5	QPSK10M	Rear Face	1.4	20525	Sensor off	1	1	24	25.0	23.45	0.00	0.315	1.43	0.45
	LTE 5	QPSK10M	Front Face	1	20525	Sensor on	1	25	0	20.0	18.42	0.01	0.199	1.44	0.29
	LTE 5	QPSK10M	Rear Face	1	20525	Sensor on	1	25	0	20.0	18.42	-0.01	0.128	1.44	0.18
	LTE 5	QPSK10M	Front Face	2.1	20525	Sensor off	1	25	0	24.0	22.43	-0.07	0.129	1.44	0.19
	LTE 5	QPSK10M	Rear Face	1.4	20525	Sensor off	1	25	0	24.0	22.43	-0.06	0.191	1.44	0.27
	LTE 5	QPSK10M	Rear Face	1.4	20525	Sensor off	2	1	24	25.0	23.45	0.03	0.271	1.43	0.39

FCC SAR Test Report

Plot No.	Band	Mode	Test Position	Separation Distance (cm)	Ch.	Power Reduction	Sample	RB#	RB Offset	Max. Tune-up Power (dBm)	Measured Conducted Power (dBm)	Power Drift (dB)	Measured SAR-1g (W/kg)	Scaling Factor	Scaled SAR-1g (W/kg)
	LTE 7	QPSK20M	Front Face	1	20850	Sensor on	1	1	50	13.0	11.90	0.03	0.331	1.29	0.43
	LTE 7	QPSK20M	Rear Face	1	20850	Sensor on	1	1	50	13.0	11.90	-0.01	0.137	1.29	0.18
18	LTE 7	QPSK20M	Front Face	2.1	20850	Sensor off	1	1	50	23.0	22.52	-0.11	0.951	1.12	1.06
	LTE 7	QPSK20M	Front Face	2.1	21100	Sensor off	1	1	50	23.0	22.43	-0.05	0.768	1.14	0.88
	LTE 7	QPSK20M	Front Face	2.1	21350	Sensor off	1	1	50	23.0	22.36	0.09	0.706	1.16	0.82
	LTE 7	QPSK20M	Rear Face	1.4	20850	Sensor off	1	1	50	23.0	22.52	0.04	0.712	1.12	0.80
	LTE 7	QPSK20M	Rear Face	1.4	21100	Sensor off	1	1	50	23.0	22.43	0.01	0.763	1.14	0.87
	LTE 7	QPSK20M	Rear Face	1.4	21350	Sensor off	1	1	50	23.0	22.36	0.02	0.689	1.16	0.80
	LTE 7	QPSK20M	Front Face	1	20850	Sensor on	1	50	0	13.0	11.85	0.00	0.280	1.30	0.36
	LTE 7	QPSK20M	Rear Face	1	20850	Sensor on	1	50	0	13.0	11.85	-0.02	0.084	1.30	0.11
	LTE 7	QPSK20M	Front Face	2.1	20850	Sensor off	1	50	0	22.0	21.91	-0.03	0.774	1.02	0.79
	LTE 7	QPSK20M	Rear Face	1.4	20850	Sensor off	1	50	0	22.0	21.91	-0.10	0.753	1.02	0.77
	LTE 7	QPSK20M	Front Face	2.1	20850	Sensor off	1	100	0	22.0	21.90	-0.02	0.811	1.02	0.83
	LTE 7	QPSK20M	Rear Face	1.4	20850	Sensor off	1	100	0	22.0	21.90	-0.08	0.700	1.02	0.72
	LTE 7	QPSK20M	Front Face	2.1	20850	Sensor off	2	1	50	23.0	22.52	0.07	0.874	1.12	0.98

<TDD-LTE>

Plot No.	Band	Mode	Test Position	Separation Distance (cm)	Ch.	Power Reduction	Sample	RB#	RB Offset	Duty Cycle %	Max. Tune-up Power (dBm)	Measured Conducted Power (dBm)	Power Drift (dB)	Measured SAR-1g (W/kg)	Duty Cycle Factor	Scaling Factor	Scaled SAR-1g (W/kg)
19	LTE 41	QPSK20M	Front Face	1	39750	Sensor on	1	1	50	62.9	16.0	14.71	0.05	0.314	1.006	1.35	0.43
	LTE 41	QPSK20M	Rear Face	1	39750	Sensor on	1	1	50	62.9	16.0	14.71	0.03	0.108	1.006	1.35	0.15
	LTE 41	QPSK20M	Front Face	2.1	41490	Sensor off	1	1	50	62.9	24.0	22.74	0.02	0.246	1.006	1.34	0.33
	LTE 41	QPSK20M	Rear Face	1.4	41490	Sensor off	1	1	50	62.9	24.0	22.74	0.04	0.232	1.006	1.34	0.31
	LTE 41	QPSK20M	Front Face	1	39750	Sensor on	1	50	0	62.9	16.0	14.64	0.02	0.299	1.006	1.37	0.41
	LTE 41	QPSK20M	Rear Face	1	39750	Sensor on	1	50	0	62.9	16.0	14.64	0.04	0.105	1.006	1.37	0.14
	LTE 41	QPSK20M	Front Face	2.1	41490	Sensor off	1	50	0	62.9	23.0	22.18	-0.06	0.218	1.006	1.21	0.26
	LTE 41	QPSK20M	Rear Face	1.4	41490	Sensor off	1	50	0	62.9	23.0	22.18	-0.04	0.210	1.006	1.21	0.26
	LTE 41	QPSK20M	Front Face	1	39750	Sensor on	2	1	50	62.9	16.0	14.71	0.00	0.262	1.006	1.35	0.35

<WLAN / BT>

Plot No.	Band	Mode	Test Position	Separation Distance (cm)	Ch.	Power Reduction	Sample	Duty Cycle %	Max. Tune-up Power (dBm)	Measured Conducted Power (dBm)	Power Drift (dB)	Measured SAR-1g (W/kg)	Duty Cycle Factor	Scaling Factor	Scaled SAR-1g (W/kg)
	WLAN2.4G	802.11b	Front Face	1	11	Sensor on	1	99.5	14.3	13.41	0.01	0.076	1.005	1.23	0.09
20	WLAN2.4G	802.11b	Rear Face	1	11	Sensor off	1	99.5	19.8	18.65	-0.06	0.238	1.005	1.30	0.31
	WLAN2.4G	802.11b	Front Face	1.3	11	Sensor off	1	99.5	19.8	18.65	0.09	0.165	1.005	1.30	0.22
	WLAN2.4G	802.11b	Front Face	2.1	11	Sensor off	1	99.5	19.8	18.65	0.06	0.085	1.005	1.30	0.11
	WLAN2.4G	802.11b	Rear Face	1.4	11	Sensor off	1	99.5	19.8	18.65	0.05	0.119	1.005	1.30	0.16
	WLAN2.4G	802.11b	Rear Face	1	11	Sensor off	2	99.5	19.8	18.65	0.01	0.189	1.005	1.30	0.25
	WLAN5G	802.11a	Front Face	1	64	Sensor on	1	97.1	14.5	13.01	0.06	0.042	1.03	1.41	0.06
	WLAN5G	802.11a	Rear Face	1	64	Sensor off	1	97.1	17.0	15.21	-0.03	0.021	1.03	1.51	0.03
	WLAN5G	802.11a	Front Face	1.3	64	Sensor off	1	97.1	17.0	15.21	0.03	0.173	1.03	1.51	0.27
	WLAN5G	802.11a	Front Face	2.1	64	Sensor off	1	97.1	17.0	15.21	0.00	0.088	1.03	1.51	0.14
	WLAN5G	802.11a	Rear Face	1.4	64	Sensor off	1	97.1	17.0	15.21	-0.03	0.046	1.03	1.51	0.07
21	WLAN5G	802.11a	Front Face	1.3	64	Sensor off	2	97.1	17.0	15.21	0.05	0.270	1.03	1.51	0.42
	WLAN5G	802.11a	Front Face	1	132	Sensor on	1	97.1	14.5	12.84	-0.11	0.103	1.03	1.47	0.16
	WLAN5G	802.11a	Rear Face	1	132	Sensor off	1	97.1	17.0	15.27	-0.01	0.071	1.03	1.49	0.11
22	WLAN5G	802.11a	Front Face	1.3	132	Sensor off	1	97.1	17.0	15.27	0.09	0.145	1.03	1.49	0.22
	WLAN5G	802.11a	Front Face	2.1	132	Sensor off	1	97.1	17.0	15.27	0.03	0.078	1.03	1.49	0.12
	WLAN5G	802.11a	Rear Face	1.4	132	Sensor off	1	97.1	17.0	15.27	0.10	0.045	1.03	1.49	0.07
	WLAN5G	802.11a	Front Face	1.3	132	Sensor off	2	97.1	17.0	15.27	-0.13	0.139	1.03	1.49	0.21

FCC SAR Test Report

Plot No.	Band	Mode	Test Position	Separation Distance (cm)	Ch.	Power Reduction	Sample	Duty Cycle %	Max. Tune-up Power (dBm)	Measured Conducted Power (dBm)	Power Drift (dB)	Measured SAR-1g (W/kg)	Duty Cycle Factor	Scaling Factor	Scaled SAR-1g (W/kg)
	WLAN5G	802.11a	Front Face	1	165	Sensor on	1	97.1	14.5	14.19	-0.03	0.118	1.03	1.07	0.13
	WLAN5G	802.11a	Rear Face	1	165	Sensor off	1	97.1	17.0	15.29	0.00	0.040	1.03	1.48	0.06
23	WLAN5G	802.11a	Front Face	1.3	165	Sensor off	1	97.1	17.0	15.29	-0.02	0.112	1.03	1.48	0.17
	WLAN5G	802.11a	Front Face	2.1	165	Sensor off	1	97.1	17.0	15.29	0.05	0.106	1.03	1.48	0.16
	WLAN5G	802.11a	Rear Face	1.4	165	Sensor off	1	97.1	17.0	15.29	0.17	0.026	1.03	1.48	0.04
	WLAN5G	802.11a	Front Face	1.3	165	Sensor off	2	97.1	17.0	15.29	0.14	0.109	1.03	1.48	0.17
24	BT	GFSK	Front Face	1	78	Sensor on	1	-	10.5	9.98	-0.01	0.029	-	1.13	0.03
	BT	GFSK	Rear Face	1	78	Sensor off	1	-	10.5	9.98	-0.09	0.026	-	1.13	0.03
	BT	GFSK	Front Face	2.1	78	Sensor off	1	-	10.5	9.98	-0.01	0.013	-	1.13	0.01
	BT	GFSK	Rear Face	1.4	78	Sensor off	1	-	10.5	9.98	-0.04	0.005	-	1.13	0.01
	BT	GFSK	Front Face	1	78	Sensor off	2	-	10.5	9.98	0.13	0.027	-	1.13	0.03

FCC SAR Test Report

4.6.4 SAR Results for Hotspot Exposure Condition (Separation Distance is 1.0 cm Gap)

<GSM>

Plot No.	Band	Mode	Test Position	Separation Distance (cm)	Ch.	Power Reduction	Sample	Max. Tune-up Power (dBm)	Measured Conducted Power (dBm)	Power Drift (dB)	Measured SAR-1g (W/kg)	Scaling Factor	Scaled SAR-1g (W/kg)
25	GSM850	GPRS12	Front Face	1	251	Sensor on	1	21.5	20.95	-0.04	0.302	1.14	0.34
	GSM850	GPRS12	Rear Face	1	251	Sensor on	1	21.5	20.95	0.1	0.162	1.14	0.18
	GSM850	GPRS12	Right Side	1	251	Sensor off	1	28.5	27.02	0.05	0.022	1.41	0.03
	GSM850	GPRS12	Top Side	1	251	Sensor on	1	21.5	20.95	0.05	0.115	1.14	0.13
	GSM850	GPRS12	Front Face	2.1	251	Sensor off	1	28.5	27.02	0.13	0.072	1.41	0.10
	GSM850	GPRS12	Rear Face	1.4	251	Sensor off	1	28.5	27.02	0.02	0.102	1.41	0.14
	GSM850	GPRS12	Top Side	2.3	251	Sensor off	1	28.5	27.02	0.06	0.033	1.41	0.05
	GSM850	GPRS12	Front Face	1	251	Sensor on	2	21.5	20.95	0.13	0.195	1.14	0.22
26	GSM1900	GPRS12	Front Face	1	810	Sensor on	1	23.5	23.20	0.05	0.279	1.07	0.30
	GSM1900	GPRS12	Rear Face	1	810	Sensor on	1	23.5	23.20	0.17	0.174	1.07	0.19
	GSM1900	GPRS12	Right Side	1	810	Sensor off	1	25.0	23.85	0.02	0.035	1.30	0.05
	GSM1900	GPRS12	Top Side	1	810	Sensor on	1	23.5	23.20	-0.02	0.199	1.07	0.21
	GSM1900	GPRS12	Front Face	2.1	810	Sensor off	1	25.0	23.85	0.08	0.079	1.30	0.10
	GSM1900	GPRS12	Rear Face	1.4	810	Sensor off	1	25.0	23.85	-0.03	0.095	1.30	0.12
	GSM1900	GPRS12	Top Side	2.3	810	Sensor off	1	25.0	23.85	0.04	0.076	1.30	0.10
	GSM1900	GPRS12	Front Face	1	810	Sensor on	2	23.5	23.20	0.07	0.275	1.07	0.29

<FDD-LTE>

Plot No.	Band	Mode	Test Position	Separation Distance (cm)	Ch.	Power Reduction	Sample	RB#	RB Offset	Max. Tune-up Power (dBm)	Measured Conducted Power (dBm)	Power Drift (dB)	Measured SAR-1g (W/kg)	Scaling Factor	Scaled SAR-1g (W/kg)
	LTE 2	QPSK20M	Front Face	1	18700	Sensor on	1	1	50	15.0	14.01	0.04	0.112	1.26	0.14
	LTE 2	QPSK20M	Rear Face	1	18700	Sensor on	1	1	50	15.0	14.01	0.04	0.087	1.26	0.11
	LTE 2	QPSK20M	Right Side	1	18700	Sensor off	1	1	50	23.5	22.51	0.09	0.167	1.26	0.21
	LTE 2	QPSK20M	Top Side	1	18700	Sensor on	1	1	50	15.0	14.01	0.00	0.093	1.26	0.12
	LTE 2	QPSK20M	Front Face	2.1	18700	Sensor off	1	1	50	23.5	22.51	0.1	0.235	1.26	0.30
27	LTE 2	QPSK20M	Rear Face	1.4	18700	Sensor off	1	1	50	23.5	22.51	-0.01	0.502	1.26	0.63
	LTE 2	QPSK20M	Top Side	2.3	18700	Sensor off	1	1	50	23.5	22.51	-0.07	0.196	1.26	0.25
	LTE 2	QPSK20M	Front Face	1	18700	Sensor on	1	50	25	15.0	13.86	0.07	0.112	1.30	0.15
	LTE 2	QPSK20M	Rear Face	1	18700	Sensor on	1	50	25	15.0	13.86	0.03	0.087	1.30	0.11
	LTE 2	QPSK20M	Right Side	1	18700	Sensor off	1	50	25	22.5	21.81	0.04	0.165	1.17	0.19
	LTE 2	QPSK20M	Top Side	1	18700	Sensor on	1	50	25	15.0	13.86	0.00	0.092	1.30	0.12
	LTE 2	QPSK20M	Front Face	2.1	18700	Sensor off	1	50	25	22.5	21.81	0.01	0.208	1.17	0.24
	LTE 2	QPSK20M	Rear Face	1.4	18700	Sensor off	1	50	25	22.5	21.81	0.13	0.374	1.17	0.44
	LTE 2	QPSK20M	Top Side	2.3	18700	Sensor off	1	50	25	22.5	21.81	0.04	0.189	1.17	0.22
	LTE 2	QPSK20M	Rear Face	1.4	18700	Sensor off	2	1	50	23.5	22.51	0.01	0.408	1.26	0.51
	LTE 4	QPSK20M	Front Face	1	20300	Sensor on	1	1	50	18.0	17.13	-0.08	0.172	1.22	0.21
	LTE 4	QPSK20M	Rear Face	1	20300	Sensor on	1	1	50	18.0	17.13	0.01	0.165	1.22	0.20
	LTE 4	QPSK20M	Right Side	1	20300	Sensor off	1	1	50	23.5	22.53	0.08	0.288	1.25	0.36
	LTE 4	QPSK20M	Top Side	1	20300	Sensor on	1	1	50	18.0	17.13	0.17	0.080	1.22	0.10
	LTE 4	QPSK20M	Front Face	2.1	20300	Sensor off	1	1	50	23.5	22.53	-0.08	0.181	1.25	0.23
28	LTE 4	QPSK20M	Rear Face	1.4	20300	Sensor off	1	1	50	23.5	22.53	0.13	0.487	1.25	0.61
	LTE 4	QPSK20M	Top Side	2.3	20300	Sensor off	1	1	50	23.5	22.53	0.12	0.098	1.25	0.12
	LTE 4	QPSK20M	Front Face	1	20300	Sensor on	1	50	25	18.0	16.99	-0.06	0.175	1.26	0.22
	LTE 4	QPSK20M	Rear Face	1	20300	Sensor on	1	50	25	18.0	16.99	-0.09	0.154	1.26	0.19
	LTE 4	QPSK20M	Right Side	1	20300	Sensor off	1	50	25	22.5	22.04	-0.03	0.255	1.11	0.28
	LTE 4	QPSK20M	Top Side	1	20300	Sensor on	1	50	25	18.0	16.99	0	0.083	1.26	0.10
	LTE 4	QPSK20M	Front Face	2.1	20300	Sensor off	1	50	25	22.5	22.04	0.03	0.162	1.11	0.18
	LTE 4	QPSK20M	Rear Face	1.4	20300	Sensor off	1	50	25	22.5	22.04	-0.1	0.348	1.11	0.39
	LTE 4	QPSK20M	Top Side	2.3	20300	Sensor off	1	50	25	22.5	22.04	0.01	0.092	1.11	0.10
	LTE 4	QPSK20M	Rear Face	1.4	20300	Sensor off	2	1	50	23.5	22.53	0.02	0.433	1.25	0.54

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Plot No.	Band	Mode	Test Position	Separation Distance (cm)	Ch.	Power Reduction	Sample	RB#	RB Offset	Max. Tune-up Power (dBm)	Measured Conducted Power (dBm)	Power Drift (dB)	Measured SAR-1g (W/kg)	Scaling Factor	Scaled SAR-1g (W/kg)
	LTE 5	QPSK10M	Front Face	1	20525	Sensor on	1	1	24	20.0	18.44	-0.04	0.235	1.43	0.34
	LTE 5	QPSK10M	Rear Face	1	20525	Sensor on	1	1	24	20.0	18.44	0.06	0.114	1.43	0.16
	LTE 5	QPSK10M	Right Side	1	20525	Sensor off	1	1	24	25.0	23.45	0.18	0.084	1.43	0.12
	LTE 5	QPSK10M	Top Side	1	20525	Sensor on	1	1	24	20.0	18.44	0.19	0.105	1.43	0.15
	LTE 5	QPSK10M	Front Face	2.1	20525	Sensor off	1	1	24	25.0	23.45	0.17	0.157	1.43	0.22
29	LTE 5	QPSK10M	Rear Face	1.4	20525	Sensor off	1	1	24	25.0	23.45	0.03	0.315	1.43	0.45
	LTE 5	QPSK10M	Top Side	2.3	20525	Sensor off	1	1	24	25.0	23.45	0.04	0.074	1.43	0.11
	LTE 5	QPSK10M	Front Face	1	20525	Sensor on	1	25	0	20.0	18.42	0.01	0.199	1.44	0.29
	LTE 5	QPSK10M	Rear Face	1	20525	Sensor on	1	25	0	20.0	18.42	-0.01	0.128	1.44	0.18
	LTE 5	QPSK10M	Right Side	1	20525	Sensor off	1	25	0	24.0	22.43	0.16	0.065	1.44	0.09
	LTE 5	QPSK10M	Top Side	1	20525	Sensor on	1	25	0	20.0	18.42	0.02	0.104	1.44	0.15
	LTE 5	QPSK10M	Front Face	2.1	20525	Sensor off	1	25	0	24.0	22.43	-0.07	0.129	1.44	0.19
	LTE 5	QPSK10M	Rear Face	1.4	20525	Sensor off	1	25	0	24.0	22.43	-0.06	0.191	1.44	0.27
	LTE 5	QPSK10M	Top Side	2.3	20525	Sensor off	1	25	0	24.0	22.43	0.11	0.059	1.44	0.08
	LTE 5	QPSK10M	Rear Face	1.4	20525	Sensor off	2	1	24	25.0	23.45	0.03	0.271	1.43	0.39
	LTE 7	QPSK20M	Front Face	1	20850	Sensor on	1	1	50	13.0	11.90	0.03	0.331	1.29	0.43
	LTE 7	QPSK20M	Rear Face	1	20850	Sensor on	1	1	50	13.0	11.90	-0.01	0.137	1.29	0.18
	LTE 7	QPSK20M	Right Side	1	20850	Sensor off	1	1	50	23.0	22.52	0.05	0.525	1.12	0.59
	LTE 7	QPSK20M	Top Side	1	20850	Sensor on	1	1	50	13.0	11.90	-0.11	0.355	1.29	0.46
	LTE 7	QPSK20M	Front Face	2.1	20850	Sensor off	1	1	50	23.0	22.52	0.04	0.951	1.12	1.06
	LTE 7	QPSK20M	Front Face	2.1	21100	Sensor off	1	1	50	23.0	22.43	-0.05	0.768	1.14	0.88
	LTE 7	QPSK20M	Front Face	2.1	21350	Sensor off	1	1	50	23.0	22.36	0.09	0.706	1.16	0.82
	LTE 7	QPSK20M	Rear Face	1.4	20850	Sensor off	1	1	50	23.0	22.52	0.04	0.712	1.12	0.80
	LTE 7	QPSK20M	Rear Face	1.4	21100	Sensor off	1	1	50	23.0	22.43	0.01	0.763	1.14	0.87
	LTE 7	QPSK20M	Rear Face	1.4	21350	Sensor off	1	1	50	23.0	22.36	0.02	0.689	1.16	0.80
30	LTE 7	QPSK20M	Top Side	2.3	20850	Sensor off	1	1	50	23.0	22.52	-0.01	1.010	1.12	1.13
	LTE 7	QPSK20M	Top Side	2.3	21100	Sensor off	1	1	50	23.0	22.43	0	0.822	1.14	0.94
	LTE 7	QPSK20M	Top Side	2.3	21350	Sensor off	1	1	50	23.0	22.36	0.03	0.743	1.16	0.86
	LTE 7	QPSK20M	Front Face	1	20850	Sensor on	1	50	0	13.0	11.85	0.00	0.280	1.30	0.36
	LTE 7	QPSK20M	Rear Face	1	20850	Sensor on	1	50	0	13.0	11.85	-0.02	0.084	1.30	0.11
	LTE 7	QPSK20M	Right Side	1	20850	Sensor off	1	50	0	22.0	21.91	0.07	0.465	1.02	0.47
	LTE 7	QPSK20M	Top Side	1	20850	Sensor on	1	50	0	13.0	11.85	0.04	0.306	1.30	0.40
	LTE 7	QPSK20M	Front Face	2.1	20850	Sensor off	1	50	0	22.0	21.91	-0.03	0.774	1.02	0.79
	LTE 7	QPSK20M	Rear Face	1.4	20850	Sensor off	1	50	0	22.0	21.91	-0.10	0.753	1.02	0.77
	LTE 7	QPSK20M	Top Side	2.3	20850	Sensor off	1	50	0	22.0	21.91	0.07	0.824	1.02	0.84
	LTE 7	QPSK20M	Top Side	2.3	21100	Sensor off	1	50	0	22.0	21.82	0.04	0.750	1.04	0.78
	LTE 7	QPSK20M	Top Side	2.3	21350	Sensor off	1	50	0	22.0	21.75	0.05	0.691	1.06	0.73
	LTE 7	QPSK20M	Front Face	2.1	20850	Sensor off	1	100	0	22.0	21.90	-0.02	0.811	1.02	0.83
	LTE 7	QPSK20M	Rear Face	1.4	20850	Sensor off	1	100	0	22.0	21.90	-0.08	0.700	1.02	0.72
	LTE 7	QPSK20M	Top Side	2.3	20850	Sensor off	1	100	0	22.0	21.90	0.09	0.880	1.02	0.90
	LTE 7	QPSK20M	Top Side	2.3	20850	Sensor off	2	1	50	23.0	22.52	0.09	0.961	1.12	1.07

FCC SAR Test Report

<TDD-LTE>

Plot No.	Band	Mode	Test Position	Separation Distance (cm)	Ch.	Power Reduction	Sample	RB#	RB Offset	Duty Cycle %	Max. Tune-up Power (dBm)	Measured Conducted Power (dBm)	Power Drift (dB)	Measured SAR-1g (W/kg)	Duty Cycle Factor	Scaling Factor	Scaled SAR-1g (W/kg)
	LTE 41	QPSK20M	Front Face	1	39750	Sensor on	1	1	50	62.9	16.0	14.71	0.04	0.314	1.006	1.35	0.43
	LTE 41	QPSK20M	Rear Face	1	39750	Sensor on	1	1	50	62.9	16.0	14.71	0.03	0.108	1.006	1.35	0.15
	LTE 41	QPSK20M	Right Side	1	41490	Sensor off	1	1	50	62.9	24.0	22.74	0.03	0.156	1.006	1.34	0.21
31	LTE 41	QPSK20M	Top Side	1	39750	Sensor on	1	1	50	62.9	16.0	14.71	0.03	0.391	1.006	1.35	0.53
	LTE 41	QPSK20M	Front Face	2.1	41490	Sensor off	1	1	50	62.9	24.0	22.74	0.02	0.246	1.006	1.34	0.33
	LTE 41	QPSK20M	Rear Face	1.4	41490	Sensor off	1	1	50	62.9	24.0	22.74	0.04	0.232	1.006	1.34	0.31
	LTE 41	QPSK20M	Top Side	2.3	41490	Sensor off	1	1	50	62.9	24.0	22.74	0.02	0.243	1.006	1.34	0.33
	LTE 41	QPSK20M	Front Face	1	39750	Sensor on	1	50	0	62.9	16.0	14.64	0.02	0.299	1.006	1.37	0.41
	LTE 41	QPSK20M	Rear Face	1	39750	Sensor on	1	50	0	62.9	16.0	14.64	0.04	0.105	1.006	1.37	0.14
	LTE 41	QPSK20M	Right Side	1	41490	Sensor off	1	50	0	62.9	23.0	22.18	0.04	0.143	1.006	1.21	0.17
	LTE 41	QPSK20M	Top Side	1	39750	Sensor on	1	50	0	62.9	16.0	14.64	0.16	0.375	1.006	1.37	0.52
	LTE 41	QPSK20M	Front Face	2.1	41490	Sensor off	1	50	0	62.9	23.0	22.18	-0.06	0.218	1.006	1.21	0.26
	LTE 41	QPSK20M	Rear Face	1.4	41490	Sensor off	1	50	0	62.9	23.0	22.18	-0.04	0.210	1.006	1.21	0.26
	LTE 41	QPSK20M	Top Side	2.3	41490	Sensor off	1	50	0	62.9	23.0	22.18	0.07	0.178	1.006	1.21	0.22
	LTE 41	QPSK20M	Top Side	1	39750	Sensor on	2	1	50	62.9	16.0	14.71	0.05	0.264	1.006	1.35	0.36

<WLAN / BT>

Plot No.	Band	Mode	Test Position	Separation Distance (cm)	Ch.	Power Reduction	Sample	Duty Cycle %	Max. Tune-up Power (dBm)	Measured Conducted Power (dBm)	Power Drift (dB)	Measured SAR-1g (W/kg)	Duty Cycle Factor	Scaling Factor	Scaled SAR-1g (W/kg)
	WLAN2.4G	802.11b	Front Face	1	11	Sensor on	1	99.5	14.3	13.41	0.01	0.076	1.01	1.23	0.09
32	WLAN2.4G	802.11b	Rear Face	1	11	Sensor off	1	99.5	19.8	18.65	-0.06	0.238	1.01	1.30	0.31
	WLAN2.4G	802.11b	Left Side	1	11	Sensor off	1	99.5	19.8	18.65	0.03	0.210	1.01	1.30	0.28
	WLAN2.4G	802.11b	Top Side	1	11	Sensor on	1	99.5	14.3	13.41	0.04	0.033	1.01	1.23	0.04
	WLAN2.4G	802.11b	Front Face	1.3	11	Sensor off	1	99.5	19.8	18.65	0.09	0.165	1.01	1.30	0.22
	WLAN2.4G	802.11b	Top Side	1.5	11	Sensor off	1	99.5	19.8	18.65	0.07	0.067	1.01	1.30	0.09
	WLAN2.4G	802.11b	Front Face	2.1	11	Sensor off	1	99.5	19.8	18.65	0.06	0.085	1.01	1.30	0.11
	WLAN2.4G	802.11b	Rear Face	1.4	11	Sensor off	1	99.5	19.8	18.65	0.05	0.119	1.01	1.30	0.16
	WLAN2.4G	802.11b	Top Side	2.3	11	Sensor off	1	99.5	19.8	18.65	0.01	0.029	1.01	1.30	0.04
	WLAN2.4G	802.11b	Rear Face	1	11	Sensor off	2	99.5	19.8	18.65	0.01	0.189	1.01	1.30	0.25
	WLAN5G	802.11a	Front Face	1	40	Sensor on	1	97.1	14.5	12.84	0.18	0.109	1.03	1.47	0.16
	WLAN5G	802.11a	Rear Face	1	40	Sensor off	1	97.1	17.0	15.24	0.05	0.070	1.03	1.50	0.11
33	WLAN5G	802.11a	Left Side	1	40	Sensor off	1	97.1	17.0	15.24	0.02	0.134	1.03	1.50	0.21
	WLAN5G	802.11a	Top Side	1	40	Sensor on	1	97.1	14.5	12.84	0.04	0.092	1.03	1.47	0.14
	WLAN5G	802.11a	Front Face	1.3	40	Sensor off	1	97.1	17.0	15.24	-0.09	0.124	1.03	1.50	0.19
	WLAN5G	802.11a	Top Side	1.5	40	Sensor off	1	97.1	17.0	15.24	-0.17	0.084	1.03	1.50	0.13
	WLAN5G	802.11a	Front Face	2.1	40	Sensor off	1	97.1	17.0	15.24	0.04	0.070	1.03	1.50	0.11
	WLAN5G	802.11a	Rear Face	1.4	40	Sensor off	1	97.1	17.0	15.24	0.09	0.047	1.03	1.50	0.07
	WLAN5G	802.11a	Top Side	2.3	40	Sensor off	1	97.1	17.0	15.24	0.05	0.056	1.03	1.50	0.09
	WLAN5G	802.11a	Left Side	1	40	Sensor off	2	97.1	17.0	15.24	0.04	0.079	1.03	1.50	0.12
	WLAN5G	802.11a	Front Face	1	165	Sensor on	1	97.1	14.5	14.19	-0.03	0.118	1.03	1.07	0.13
	WLAN5G	802.11a	Rear Face	1	165	Sensor off	1	97.1	17.0	15.29	0.00	0.040	1.03	1.48	0.06
	WLAN5G	802.11a	Left Side	1	165	Sensor off	1	97.1	17.0	15.29	0.07	0.108	1.03	1.48	0.16
	WLAN5G	802.11a	Top Side	1	165	Sensor on	1	97.1	14.5	14.19	0.03	0.056	1.03	1.07	0.06
34	WLAN5G	802.11a	Front Face	1.3	165	Sensor off	1	97.1	17.0	15.29	-0.01	0.112	1.03	1.48	0.17
	WLAN5G	802.11a	Top Side	1.5	165	Sensor off	1	97.1	17.0	15.29	0.06	0.041	1.03	1.48	0.06
	WLAN5G	802.11a	Front Face	2.1	165	Sensor off	1	97.1	17.0	15.29	0.05	0.106	1.03	1.48	0.16
	WLAN5G	802.11a	Rear Face	1.4	165	Sensor off	1	97.1	17.0	15.29	0.17	0.026	1.03	1.48	0.04
	WLAN5G	802.11a	Top Side	2.3	165	Sensor off	1	97.1	17.0	15.29	-0.04	0.040	1.03	1.48	0.06
	WLAN5G	802.11a	Front Face	1.3	165	Sensor off	2	97.1	17.0	15.29	0.14	0.109	1.03	1.48	0.17

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Plot No.	Band	Mode	Test Position	Separation Distance (cm)	Ch.	Power Reduction	Sample	Duty Cycle %	Max. Tune-up Power (dBm)	Measured Conducted Power (dBm)	Power Drift (dB)	Measured SAR-1g (W/kg)	Duty Cycle Factor	Scaling Factor	Scaled SAR-1g (W/kg)
35	BT	GFSK	Front Face	1	78	Sensor off	1	-	10.5	9.98	-0.01	0.029	-	1.13	0.03
	BT	GFSK	Rear Face	1	78	Sensor off	1	-	10.5	9.98	-0.09	0.026	-	1.13	0.03
	BT	GFSK	Left Side	1	78	Sensor off	1	-	10.5	9.98	0.04	0.023	-	1.13	0.03
	BT	GFSK	Top Side	1	78	Sensor off	1	-	10.5	9.98	0	0.003	-	1.13	0.00
	BT	GFSK	Front Face	2.1	78	Sensor off	1	-	10.5	9.98	-0.01	0.013	-	1.13	0.01
	BT	GFSK	Rear Face	1.4	78	Sensor off	1	-	10.5	9.98	-0.04	0.005	-	1.13	0.01
	BT	GFSK	Top Side	2.3	78	Sensor off	1	-	10.5	9.98	0	0	-	1.13	0.00
	BT	GFSK	Front Face	1	78	Sensor off	2	-	10.5	9.98	0.13	0.027	-	1.13	0.03

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4.6.5 SAR Results for Extremity Exposure Condition (Separation Distance is 0 cm Gap)

<GSM>

Plot No	Band	Mode	Test Position	Separation Distance (cm)	Ch.	Power Reduction	Sample	Max. Tune-up Power (dBm)	Measured Conducted Power (dBm)	Power Drift (dB)	Measured SAR-10g (W/kg)	Scaling Factor	Scaled SAR-10g (W/kg)
36	GSM850	GPRS12	Front Face	0	251	Sensor on	1	21.5	20.95	0.17	0.499	1.14	0.57
	GSM850	GPRS12	Front Face	0	251	Sensor on	2	21.5	20.95	0.03	0.483	1.14	0.55

<FDD-LTE>

Plot No	Band	Mode	Test Position	Separation Distance (cm)	Ch.	Power Reduction	Sample	RB#	RB Offset	Max. Tune-up Power (dBm)	Measured Conducted Power (dBm)	Power Drift (dB)	Measured SAR-10g (W/kg)	Scaling Factor	Scaled SAR-10g (W/kg)
	LTE 7	QPSK20M	Front Face	0	20850	Sensor on	1	1	50	13.0	11.90	0	0.260	1.29	0.33
	LTE 7	QPSK20M	Rear Face	0	20850	Sensor on	1	1	50	13.0	11.90	-0.03	0.253	1.29	0.33
	LTE 7	QPSK20M	Top Side	0	20850	Sensor on	1	1	50	13.0	11.90	0.06	0.303	1.29	0.39
	LTE 7	QPSK20M	Front Face	0	20850	Sensor on	1	50	0	13.0	11.85	0.07	0.268	1.30	0.35
	LTE 7	QPSK20M	Rear Face	0	20850	Sensor on	1	50	0	13.0	11.85	0.08	0.247	1.30	0.32
	LTE 7	QPSK20M	Top Side	0	20850	Sensor on	1	50	0	13.0	11.85	0.06	0.306	1.30	0.40
37	LTE 7	QPSK20M	Top Side	0	20850	Sensor on	2	50	0	13.0	11.85	0.09	0.296	1.30	0.39

<TDD-LTE>

Plot No	Band	Mode	Test Position	Separation Distance (cm)	Ch.	Power Reduction	Sample	RB#	RB Offset	Duty Cycle %	Max. Tune-up Power (dBm)	Measured Conducted Power (dBm)	Power Drift (dB)	Measured SAR-10g (W/kg)	Duty Cycle Factor	Scaling Factor	Scaled SAR-10g (W/kg)
	LTE 41	QPSK20M	Front Face	0	39750	Sensor on	1	1	50	62.9	16.0	14.71	0.04	0.279	1.006	1.35	0.38
	LTE 41	QPSK20M	Top Side	0	39750	Sensor on	1	1	50	62.9	16.0	14.71	0.03	0.323	1.006	1.35	0.44
	LTE 41	QPSK20M	Front Face	0	39750	Sensor on	1	50	0	62.9	16.0	14.64	0.06	0.281	1.006	1.37	0.39
38	LTE 41	QPSK20M	Top Side	0	39750	Sensor on	1	50	0	62.9	16.0	14.64	0.01	0.325	1.006	1.37	0.45
	LTE 41	QPSK20M	Top Side	0	39750	Sensor on	2	50	0	62.9	16.0	14.64	0.09	0.318	1.006	1.37	0.44

<WLAN / BT>

Plot No	Band	Mode	Test Position	Separation Distance (cm)	Ch.	Power Reduction	Sample	Duty Cycle %	Max. Tune-up Power (dBm)	Measured Conducted Power (dBm)	Power Drift (dB)	Measured SAR-10g (W/kg)	Duty Cycle Factor	Scaling Factor	Scaled SAR-10g (W/kg)
	WLAN5G	802.11a	Front Face	0	64	Sensor on	1	97.1	14.5	13.01	0.02	0.202	1.030	1.41	0.29
	WLAN5G	802.11a	Rear Face	0	64	Sensor on	1	97.1	14.5	13.01	0.01	0.054	1.030	1.41	0.08
39	WLAN5G	802.11a	Left Side	0	64	Sensor off	1	97.1	17.0	15.21	0.03	0.280	1.030	1.51	0.44
	WLAN5G	802.11a	Top Side	0	64	Sensor on	1	97.1	14.5	13.01	0	0.148	1.030	1.41	0.21
	WLAN5G	802.11a	Left Side	0	64	Sensor off	2	97.1	17.0	15.21	-0.03	0.265	1.030	1.51	0.41
	WLAN5G	802.11a	Front Face	0	132	Sensor on	1	97.1	14.5	12.84	0.05	0.271	1.030	1.47	0.41
	WLAN5G	802.11a	Rear Face	0	132	Sensor on	1	97.1	14.5	12.84	0.09	0.093	1.030	1.47	0.14
40	WLAN5G	802.11a	Left Side	0	132	Sensor off	1	97.1	17.0	15.27	0	0.276	1.030	1.49	0.42
	WLAN5G	802.11a	Top Side	0	132	Sensor on	1	97.1	14.5	12.84	0.08	0.154	1.030	1.47	0.23
	WLAN5G	802.11a	Left Side	0	132	Sensor off	2	97.1	17.0	15.27	0.02	0.214	1.030	1.49	0.33

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4.6.6 SAR Measurement Variability

According to KDB 865664 D01, SAR measurement variability was assessed for each frequency band, which is determined by the SAR probe calibration point and tissue-equivalent medium used for the device measurements. When both head and body tissue-equivalent media are required for SAR measurements in a frequency band, the variability measurement procedures should be applied to the tissue medium with the highest measured SAR, using the highest measured SAR configuration for that tissue-equivalent medium. Alternatively, if the highest measured SAR for both head and body tissue-equivalent media are ≤ 1.45 W/kg and the ratio of these highest SAR values, i.e., largest divided by smallest value, is ≤ 1.10 , the highest SAR configuration for either head or body tissue-equivalent medium may be used to perform the repeated measurement. These additional measurements are repeated after the completion of all measurements requiring the same head or body tissue-equivalent medium in a frequency band. The test device should be returned to ambient conditions (normal room temperature) with the battery fully charged before it is re-mounted on the device holder for the repeated measurement(s) to minimize any unexpected variations in the repeated results.

SAR repeated measurement procedure:

1. When the highest measured SAR is < 0.80 W/kg, repeated measurement is not required.
2. When the highest measured SAR is ≥ 0.80 W/kg, repeat that measurement once.
3. If the ratio of largest to smallest SAR for the original and first repeated measurements is > 1.20 , or when the original or repeated measurement is ≥ 1.45 W/kg, perform a second repeated measurement.
4. If the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20 , and the original, first or second repeated measurement is ≥ 1.5 W/kg, perform a third repeated measurement.

Band	Test Position	Ch.	Original Measured SAR-1g (W/kg)	1st Repeated SAR-1g (W/kg)	L/S Ratio	2nd Repeated SAR-1g (W/kg)	L/S Ratio	3rd Repeated SAR-1g (W/kg)	L/S Ratio
GSM850	Left Cheek	189	0.953	0.938	1.02	N/A	N/A	N/A	N/A
LTE 7	Top Side	20850	1.01	0.992	1.02	N/A	N/A	N/A	N/A

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4.6.7 Simultaneous Multi-band Transmission Evaluation

<Simultaneous transmission possibilities>

The simultaneous transmission possibilities for this device are listed as below.

Simultaneous TX Combination	Capable Transmit Configurations	Head (Voice / VoIP)	Body-worn (Voice / VoIP)	Hotspot (Data)
1	WWAN+WLAN 2.4G	Yes	Yes	Yes
2	WWAN+WLAN 5G	Yes	Yes	Yes
3	WWAN+WLAN 5G+BT	Yes	Yes	Yes

Note:

1. The 2.4G WLAN and 5G WLAN cannot transmit simultaneously.
2. The 2.4G WLAN and BT cannot transmit simultaneously.

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<SAR Summation Analysis>

Simultaneous transmission SAR test exclusion is determined for each operating configuration and exposure condition according to the reported standalone SAR of each applicable simultaneous transmitting antenna. When the sum of SAR_{1g} of all simultaneously transmitting antennas in an operating mode and exposure condition combination is within the SAR limit (SAR_{1g} 1.6 W/kg), the simultaneous transmission SAR is not required. When the sum of SAR_{1g} is greater than the SAR limit (SAR_{1g} 1.6 W/kg), SAR test exclusion is determined by the SPLSR.

<Head Exposure condition>

WWAN Band	Exposure Position	1	2	3	4	1+2 Summed 1g SAR (W/kg)	1+3+4 Summed 1g SAR (W/kg)
		WWAN	2.4GHz WLAN	5GHz WLAN	BT		
		1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)		
GSM850	Right Cheek	0.72	0.56	0.64	0.11	1.28	1.46
	Right Tilted	0.62	0.31	0.53	0.10	0.94	1.25
	Left Cheek	1.09	0.14	0.36	0.04	1.23	1.49
	Left Tilted	0.76	0.10	0.40	0.04	0.87	1.20
GSM1900	Right Cheek	0.48	0.56	0.64	0.11	1.04	1.23
	Right Tilted	0.46	0.31	0.53	0.10	0.77	1.09
	Left Cheek	1.09	0.14	0.36	0.04	1.23	1.49
	Left Tilted	0.91	0.10	0.40	0.04	1.01	1.34
LTE Band 2	Right Cheek	0.26	0.56	0.64	0.11	0.82	1.00
	Right Tilted	0.19	0.31	0.53	0.10	0.51	0.82
	Left Cheek	0.57	0.14	0.36	0.04	0.71	0.97
	Left Tilted	0.38	0.10	0.40	0.04	0.49	0.82
LTE Band 4	Right Cheek	0.45	0.56	0.64	0.11	1.01	1.20
	Right Tilted	0.29	0.31	0.53	0.10	0.60	0.92
	Left Cheek	1.06	0.14	0.36	0.04	1.20	1.46
	Left Tilted	0.67	0.10	0.40	0.04	0.78	1.11
LTE Band 5	Right Cheek	0.72	0.56	0.64	0.11	1.28	1.46
	Right Tilted	0.57	0.31	0.53	0.10	0.88	1.20
	Left Cheek	1.05	0.14	0.36	0.04	1.18	1.44
	Left Tilted	0.69	0.10	0.40	0.04	0.79	1.13
LTE Band 7	Right Cheek	0.67	0.56	0.64	0.11	1.23	1.41
	Right Tilted	0.68	0.31	0.53	0.10	0.99	1.31
	Left Cheek	0.73	0.14	0.36	0.04	0.87	1.13
	Left Tilted	0.72	0.10	0.40	0.04	0.82	1.16
LTE Band 41/38	Right Cheek	0.75	0.56	0.64	0.11	1.31	1.49
	Right Tilted	0.76	0.31	0.53	0.10	1.07	1.39
	Left Cheek	0.82	0.14	0.36	0.04	0.96	1.22
	Left Tilted	0.86	0.10	0.40	0.04	0.97	1.30